

**REDACTED**

### Data Validation Checklist Semivolatile Organic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica – Tampa, FL  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil and water  
 Reviewer: Jane Lindsey  
 Concurrence<sup>1</sup>: Carol Lovett, Sarah Choyke

Project No: 15268508.20000  
 Job ID.: 680-88527-2  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/19/2013 & 03/20/2013  
 Date: 04/03/2013  
 Date: 04/10/2013

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.	✓			CV1360AD-GS (680-88527-32) contained 84.5% water and was reported on a dry-weight basis. Detected results were qualified with J and non-detected results with UJ.	J, UJ
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?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	

<sup>1</sup> Independent technical reviewer  
 URS Group, Inc.  
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## 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 (032013-RB-Bowls+Spoons) was collected during the week of 03/18/2013. 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?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
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>Initial Calibration: 03/15/2013, instrument BSMA5973</li> <li>ICV: 03/15/2013 @ 14:39</li> <li>CCV: 03/26/2013 @ 11:28</li> <li>Initial Calibration: 02/22/2013, instrument BSMC5973</li> <li>ICV: 02/22/2013 @ 14:06</li> <li>CCV: 03/27/2013 @ 10:35</li> <li>CCV: 03/28/2013 @ 11:59</li> <li>Initial Calibration: 02/22/2013, instrument BSMD5973</li> <li>ICV: 02/22/2013 @ 14:51</li> <li>CCV: 03/25/2013 @ 10:32</li> <li>CCV: 03/26/2013 @ 10:32</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</li> </ul>		✓		<ul style="list-style-type: none"> <li>ICV of 03/15/2013 @ 14:39, instrument BSMA5973: <ul style="list-style-type: none"> <li>Benzo(a)pyrene @ -27.5% ( Lab: <math>\leq 35</math>, Project:</li> </ul> </li> </ul>	J

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>%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 <math>RRF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):</p> <ul style="list-style-type: none"> <li>o 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>o If mean <math>RRF &lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> <p>• 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)):</p> <ul style="list-style-type: none"> <li>o 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>o 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>				<p><math>\leq 20</math>), 72.5%R</p> <ul style="list-style-type: none"> <li>o Benzo(g,h,i)perylene @ -21.4% (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 78.5%R</li> </ul> <p>A negative bias is indicated by the ICV percent difference and both analytes were detected in associated samples<sup>2</sup>; therefore, J-flag detected benzo(a)pyrene and benzo(g,h,i)perylene results.</p> <p>• ICV of 02/22/2013 @ 14:06, instrument BSMC5973:</p> <ul style="list-style-type: none"> <li>o Chrysene @ -20.6%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 79.5%R</li> <li>o Benzo(a)pyrene @ -21.7%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 78.5%R</li> </ul> <p>A negative bias is indicated by the ICV percent difference and both analytes were detected in associated samples<sup>3</sup>; therefore, J-flag detected chrysene and benzo(a)pyrene results.</p>	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects	✓			LCSD associated with water prep batch 135697.	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			<ul style="list-style-type: none"> <li>• Water Prep Batch 135697: 680-88527-24 (032013-RB-Bowls+Spoons), MS only due to limited sample volume. A LCSD analysis was conducted in lieu of the MSD.</li> <li>• Soil Prep Batch 135735: 680-88527-5 (Batch sample), MS/MSD</li> <li>• Soil Prep Batch 135754: 680-88527-21 (CV1360L-CS), MS/MSD</li> </ul>	
24. Is the MS/MSD parent sample a project-specific sample?	✓	✓		See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are</i>	✓				

<sup>2</sup> 680-88527-25 through -30<sup>3</sup> 680-88527-21, -24, and -31 through -33

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<i>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 either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>					
26. Were laboratory criteria met for precision during the MS/MSD 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 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>	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If %R &gt;UCL, then J-flag positive results</li> <li>%R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 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> <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</li> </ul>	✓				



## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
associated data. <ul style="list-style-type: none"> <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. Were lab comments included in report?	✓			Refer to <b>Attachment B</b> (Case Narrative)	
<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 C</b> ). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

## 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: 680-88527-2  
SDG: 68088527-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88527-21	CV1360L-CS	Solid	03/19/13 13:50	03/21/13 09:44
680-88527-22	CV1360M-CS	Solid	03/19/13 13:54	03/21/13 09:44
680-88527-23	CV1360N-CS	Solid	03/19/13 14:00	03/21/13 09:44
680-88527-24	CV1360O-CS	Solid	03/19/13 14:10	03/21/13 09:44
680-88527-25	CV1360P-CS	Solid	03/19/13 14:20	03/21/13 09:44
680-88527-26	CV1360Q-CS	Solid	03/19/13 14:40	03/21/13 09:44
680-88527-27	CV1360R-CS	Solid	03/19/13 14:45	03/21/13 09:44
680-88527-28	CV1360S-CS	Solid	03/19/13 14:53	03/21/13 09:44
680-88527-29	CV1360T-CS	Solid	03/19/13 15:23	03/21/13 09:44
680-88527-30	CV1360AB-GS	Solid	03/19/13 14:05	03/21/13 09:44
680-88527-31	CV1360AC-GS	Solid	03/19/13 14:29	03/21/13 09:44
680-88527-32	CV1360AD-GS	Solid	03/19/13 14:48	03/21/13 09:44
680-88527-33	CV1360AE-GS	Solid	03/19/13 14:55	03/21/13 09:44
680-88527-34	032013-RB-Bowls + Spoons	Water	03/20/13 10:30	03/21/13 09:44

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

## Case Narrative

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Job ID: 680-88527-2**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88527-2**

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

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

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

#### RECEIPT

The samples were received on 03/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

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

Samples CV1360L-CS (680-88527-21), CV1360M-CS (680-88527-22), CV1360N-CS (680-88527-23), CV1360O-CS (680-88527-24), CV1360P-CS (680-88527-25), CV1360Q-CS (680-88527-26), CV1360R-CS (680-88527-27), CV1360S-CS (680-88527-28), CV1360T-CS (680-88527-29), CV1360AB-GS (680-88527-30), CV1360AC-GS (680-88527-31), CV1360AD-GS (680-88527-32) and CV1360AE-GS (680-88527-33) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and analyzed on 03/26/2013, 03/27/2013 and 03/28/2013.

Samples CV1360N-CS (680-88527-23)[4X], CV1360P-CS (680-88527-25)[4X], CV1360R-CS (680-88527-27)[4X] and CV1360S-CS (680-88527-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

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

Sample 032013-RB-Bowls + Spoons (680-88527-34) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/22/2013 and analyzed on 03/25/2013.

No difficulties were encountered during the semivolatiles analysis.

All quality control parameters were within the acceptance limits.



**ATTACHMENT C**  
**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360L-CS**

**Lab Sample ID: 680-88527-21**

Date Collected: 03/19/13 13:50

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 59.7

**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	☆	03/25/13 16:58	03/28/13 15:23	1
Acenaphthylene	18	J	66	8.2	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Anthracene	29		14	6.9	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Benzo[a]anthracene	130		13	6.4	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Benzo[a]pyrene	130	J	17	8.6	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Benzo[b]fluoranthene	230		20	10	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Benzo[g,h,i]perylene	100		33	7.2	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Benzo[k]fluoranthene	72		13	5.9	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Chrysene	170	J	15	7.4	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Dibenz(a,h)anthracene	28	J	33	6.7	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Fluoranthene	270		33	6.6	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Fluorene	16	J	33	6.7	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Indeno[1,2,3-cd]pyrene	95		33	12	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
1-Methylnaphthalene	39	J	66	7.2	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
2-Methylnaphthalene	59	J	66	12	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Naphthalene	91		66	7.2	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Phenanthrene	140		13	6.4	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
Pyrene	250		33	6.1	ug/Kg	☆	03/25/13 16:58	03/28/13 15:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	62		30 - 130				03/25/13 16:58	03/28/13 15:23	1

**Client Sample ID: CV1360M-CS**

**Lab Sample ID: 680-88527-22**

Date Collected: 03/19/13 13:54

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Acenaphthylene	7.6	J	61	7.6	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Anthracene	13		13	6.4	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Benzo[a]anthracene	57		12	6.0	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Benzo[a]pyrene	51		16	7.9	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Benzo[b]fluoranthene	79		19	9.3	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Benzo[g,h,i]perylene	39		31	6.7	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Benzo[k]fluoranthene	31		12	5.5	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Chrysene	55		14	6.9	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Dibenz(a,h)anthracene	11	J	31	6.3	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Fluoranthene	87		31	6.1	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Fluorene	31	U	31	6.3	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Indeno[1,2,3-cd]pyrene	37		31	11	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
1-Methylnaphthalene	17	J	61	6.7	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
2-Methylnaphthalene	25	J	61	11	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Naphthalene	46	J	61	6.7	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Phenanthrene	49		12	6.0	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
Pyrene	74		31	5.6	ug/Kg	☆	03/25/13 11:55	03/26/13 21:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	81		30 - 130				03/25/13 11:55	03/26/13 21:32	1

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360N-CS**

**Lab Sample ID: 680-88527-23**

Date Collected: 03/19/13 14:00

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Acenaphthylene	47	J	200	25	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Anthracene	95		43	21	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Benzo[a]anthracene	450		41	20	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Benzo[a]pyrene	430		53	26	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Benzo[b]fluoranthene	780		62	31	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Benzo[g,h,i]perylene	320		100	22	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Benzo[k]fluoranthene	240		41	18	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Chrysene	510		46	23	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Dibenz(a,h)anthracene	100		100	21	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Fluoranthene	760		100	20	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Fluorene	27	J	100	21	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Indeno[1,2,3-cd]pyrene	300		100	36	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
1-Methylnaphthalene	94	J	200	22	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
2-Methylnaphthalene	130	J	200	36	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Naphthalene	140	J	200	22	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Phenanthrene	400		41	20	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
Pyrene	640		100	19	ug/Kg	☆	03/25/13 11:55	03/26/13 21:54	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	89		30 - 130				03/25/13 11:55	03/26/13 21:54	4

**Client Sample ID: CV1360O-CS**

**Lab Sample ID: 680-88527-24**

Date Collected: 03/19/13 14:10

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 59.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Acenaphthylene	68	U	68	8.4	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Anthracene	11	J	14	7.1	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Benzo[a]anthracene	63		14	6.6	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Benzo[a]pyrene	56	J	18	8.8	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Benzo[b]fluoranthene	86		21	10	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Benzo[g,h,i]perylene	43		34	7.4	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Benzo[k]fluoranthene	49		14	6.1	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Chrysene	54	J	15	7.6	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Dibenz(a,h)anthracene	15	J	34	6.9	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Fluoranthene	94		34	6.8	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Fluorene	34	U	34	6.9	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Indeno[1,2,3-cd]pyrene	27	J	34	12	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
1-Methylnaphthalene	16	J	68	7.4	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
2-Methylnaphthalene	16	J	68	12	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Naphthalene	38	J	68	7.4	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Phenanthrene	52		14	6.6	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
Pyrene	85		34	6.3	ug/Kg	☆	03/25/13 11:55	03/27/13 16:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	77		30 - 130				03/25/13 11:55	03/27/13 16:18	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Client Sample ID: CV1360P-CS

Lab Sample ID: 680-88527-25

Date Collected: 03/19/13 14:20

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 74.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Acenaphthylene	210	U	210	27	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Anthracene	83		45	22	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Benzo[a]anthracene	370		43	21	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Benzo[a]pyrene	240	J	56	28	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Benzo[b]fluoranthene	770		65	33	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Benzo[g,h,i]perylene	190	J	110	24	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Benzo[k]fluoranthene	110		43	19	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Chrysene	340		48	24	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Dibenz(a,h)anthracene	83	J	110	22	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Fluoranthene	460		110	21	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Fluorene	110	U	110	22	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Indeno[1,2,3-cd]pyrene	160		110	38	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
1-Methylnaphthalene	40	J	210	24	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
2-Methylnaphthalene	390		210	38	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Naphthalene	110	J	210	24	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Phenanthrene	200		43	21	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Pyrene	410		110	20	ug/Kg	☆	03/25/13 11:55	03/26/13 19:54	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	119		30 - 130				03/25/13 11:55	03/26/13 19:54	4

Client Sample ID: CV1360Q-CS

Lab Sample ID: 680-88527-26

Date Collected: 03/19/13 14:40

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 73.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Anthracene	38		11	5.5	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Benzo[a]anthracene	140		11	5.1	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Benzo[a]pyrene	100	J	14	6.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Benzo[b]fluoranthene	250		16	8.0	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Benzo[g,h,i]perylene	65	J	26	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Benzo[k]fluoranthene	69		11	4.7	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Chrysene	140		12	5.9	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Dibenz(a,h)anthracene	20	J	26	5.4	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Fluoranthene	220		26	5.3	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Fluorene	26	U	26	5.4	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Indeno[1,2,3-cd]pyrene	70		26	9.4	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
1-Methylnaphthalene	15	J	53	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
2-Methylnaphthalene	100		53	9.4	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Naphthalene	34	J	53	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Phenanthrene	95		11	5.1	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Pyrene	200		26	4.9	ug/Kg	☆	03/25/13 11:55	03/26/13 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		30 - 130				03/25/13 11:55	03/26/13 20:09	1

TestAmerica Savannah

## Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360R-CS**

**Lab Sample ID: 680-88527-27**

Date Collected: 03/19/13 14:45

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 75.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Acenaphthylene	110	J	210	26	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Anthracene	83		43	22	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Benzo[a]anthracene	410		41	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Benzo[a]pyrene	220	J	54	27	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Benzo[b]fluoranthene	750		63	32	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Benzo[g,h,i]perylene	140	J	100	23	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Chrysene	290		47	23	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Dibenz(a,h)anthracene	48	J	100	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Fluoranthene	330		100	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Fluorene	100	U	100	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Indeno[1,2,3-cd]pyrene	94	J	100	37	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
1-Methylnaphthalene	210	U	210	23	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
2-Methylnaphthalene	210	U	210	37	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Naphthalene	58	J	210	23	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Phenanthrene	110		41	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Pyrene	340		100	19	ug/Kg	☆	03/25/13 11:55	03/26/13 20:24	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130				03/25/13 11:55	03/26/13 20:24	4

**Client Sample ID: CV1360S-CS**

**Lab Sample ID: 680-88527-28**

Date Collected: 03/19/13 14:53

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 81.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Acenaphthylene	200	U	200	24	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Anthracene	28	J	41	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Benzo[a]anthracene	240		39	19	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Benzo[a]pyrene	110	J	51	25	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Benzo[b]fluoranthene	540		60	30	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Benzo[g,h,i]perylene	63	J	98	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Benzo[k]fluoranthene	67		39	18	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Chrysene	180		44	22	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Fluoranthene	220		98	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Fluorene	98	U	98	20	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Indeno[1,2,3-cd]pyrene	94	J	98	35	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
1-Methylnaphthalene	200	U	200	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
2-Methylnaphthalene	200	U	200	35	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Naphthalene	46	J	200	21	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Phenanthrene	99		39	19	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Pyrene	160		98	18	ug/Kg	☆	03/25/13 11:55	03/26/13 20:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		30 - 130				03/25/13 11:55	03/26/13 20:40	4

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Client Sample ID: CV1360T-CS

Lab Sample ID: 680-88527-29

Date Collected: 03/19/13 15:23

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Anthracene	8.7	J	13	6.3	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Benzo[a]anthracene	54		12	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Benzo[a]pyrene	23	J	16	7.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Benzo[b]fluoranthene	160		18	9.1	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Benzo[g,h,i]perylene	24	J	30	6.6	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Benzo[k]fluoranthene	15		12	5.4	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Chrysene	61		13	6.7	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Dibenz(a,h)anthracene	11	J	30	6.1	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Fluoranthene	69		30	6.0	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Fluorene	30	U	30	6.1	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Indeno[1,2,3-cd]pyrene	23	J	30	11	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
1-Methylnaphthalene	14	J	60	6.6	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
2-Methylnaphthalene	100		60	11	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Naphthalene	33	J	60	6.6	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Phenanthrene	44		12	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1
Pyrene	51		30	5.5	ug/Kg	☆	03/25/13 11:55	03/26/13 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		30 - 130	03/25/13 11:55	03/26/13 20:54	1

Client Sample ID: CV1360AB-GS

Lab Sample ID: 680-88527-30

Date Collected: 03/19/13 14:05

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 86.1

## 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	23	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Acenaphthylene	28	J	46	5.8	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Anthracene	28		9.7	4.9	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Benzo[a]anthracene	110		9.3	4.5	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Benzo[a]pyrene	80	J	12	6.0	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Benzo[b]fluoranthene	220		14	7.1	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Benzo[g,h,i]perylene	56	J	23	5.1	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Benzo[k]fluoranthene	53		9.3	4.2	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Chrysene	160		10	5.2	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Dibenz(a,h)anthracene	24		23	4.7	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Fluoranthene	160		23	4.6	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Fluorene	23	U	23	4.7	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Indeno[1,2,3-cd]pyrene	41		23	8.2	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
1-Methylnaphthalene	30	J	46	5.1	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
2-Methylnaphthalene	100		46	8.2	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Naphthalene	41	J	46	5.1	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Phenanthrene	110		9.3	4.5	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1
Pyrene	170		23	4.3	ug/Kg	☆	03/25/13 11:55	03/26/13 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		30 - 130	03/25/13 11:55	03/26/13 21:10	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Client Sample ID: CV1360AC-GS

Lab Sample ID: 680-88527-31

Date Collected: 03/19/13 14:29

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 80.4

## 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	☆	03/25/13 16:58	03/28/13 16:18	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Anthracene	18		10	5.1	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Benzo[a]anthracene	81		9.8	4.8	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Benzo[a]pyrene	79	J	13	6.4	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Benzo[b]fluoranthene	140		15	7.5	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Benzo[g,h,i]perylene	69		25	5.4	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Benzo[k]fluoranthene	43		9.8	4.4	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Chrysene	110	J	11	5.5	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Dibenz(a,h)anthracene	19	J	25	5.0	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Fluoranthene	140		25	4.9	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Fluorene	8.5	J	25	5.0	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Indeno[1,2,3-cd]pyrene	57		25	8.7	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
1-Methylnaphthalene	32	J	49	5.4	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
2-Methylnaphthalene	38	J	49	8.7	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Naphthalene	33	J	49	5.4	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Phenanthrene	91		9.8	4.8	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1
Pyrene	120		25	4.5	ug/Kg	☆	03/25/13 16:58	03/28/13 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		30 - 130	03/25/13 16:58	03/28/13 16:18	1

Client Sample ID: CV1360AD-GS

Lab Sample ID: 680-88527-32

Date Collected: 03/19/13 14:48

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 15.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	650	U J	650	130	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Acenaphthylene	260	U J	260	32	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Anthracene	54	U J	54	27	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Benzo[a]anthracene	120	J	52	25	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Benzo[a]pyrene	39	J J	67	34	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Benzo[b]fluoranthene	72	J J	79	39	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Benzo[g,h,i]perylene	130	U J	130	28	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Benzo[k]fluoranthene	57	J	52	23	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Chrysene	66	J	58	29	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Dibenz(a,h)anthracene	130	U J	130	27	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Fluoranthene	120	J J	130	26	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Fluorene	32	J J	130	27	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Indeno[1,2,3-cd]pyrene	130	U J	130	46	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
1-Methylnaphthalene	52	J J	260	28	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
2-Methylnaphthalene	58	J J	260	46	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Naphthalene	97	J J	260	28	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Phenanthrene	190	J	52	25	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1
Pyrene	120	J J	130	24	ug/Kg	☆	03/25/13 16:58	03/28/13 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	40		30 - 130	03/25/13 16:58	03/28/13 16:36	1

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# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Client Sample ID: CV1360AE-GS

Lab Sample ID: 680-88527-33

Date Collected: 03/19/13 14:55

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 54.7

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	36	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Acenaphthylene	12	J	72	9.0	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Anthracene	17		15	7.5	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Benzo[a]anthracene	110		14	7.0	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Benzo[a]pyrene	100	J	19	9.3	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Benzo[b]fluoranthene	200		22	11	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Benzo[g,h,i]perylene	75		36	7.9	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Benzo[k]fluoranthene	61		14	6.5	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Chrysene	120	J	16	8.1	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Dibenz(a,h)anthracene	30	J	36	7.3	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Fluoranthene	180		36	7.2	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Fluorene	8.8	J	36	7.3	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Indeno[1,2,3-cd]pyrene	58		36	13	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
1-Methylnaphthalene	17	J	72	7.9	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
2-Methylnaphthalene	34	J	72	13	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Naphthalene	47	J	72	7.9	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Phenanthrene	100		14	7.0	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Pyrene	170		36	6.6	ug/Kg	☆	03/25/13 16:58	03/28/13 16:54	1
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	62		30 - 130						
				Prepared	Analyzed	Dil Fac			
				03/25/13 16:58	03/28/13 16:54	1			

Client Sample ID: 032013-RB-Bowls + Spoons

Lab Sample ID: 680-88527-34

Date Collected: 03/20/13 10:30

Matrix: Water

Date Received: 03/21/13 09:44

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	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		03/22/13 15:26	03/25/13 18:26	1
Anthracene	0.20	U	0.20	0.076	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 18:26	1
Chrysene	0.20	U	0.20	0.069	ug/L		03/22/13 15:26	03/25/13 18:26	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		03/22/13 15:26	03/25/13 18:26	1
Fluorene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Naphthalene	2.0	U	2.0	0.25	ug/L		03/22/13 15:26	03/25/13 18:26	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		03/22/13 15:26	03/25/13 18:26	1
Pyrene	0.50	U	0.50	0.089	ug/L		03/22/13 15:26	03/25/13 18:26	1
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	63		30 - 130						
				Prepared	Analyzed	Dil Fac			
				03/22/13 15:26	03/25/13 18:26	1			

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## ANALYTICAL REPORT

Job Number: 680-88527-2

SDG Number: 68088527-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
4/3/2013 11:25 AM

Designee for

Lisa Harvey

Project Manager II

[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

04/03/2013

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88527-2**

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

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

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

### **RECEIPT**

The samples were received on 03/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

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

Samples CV1360L-CS (680-88527-21), CV1360M-CS (680-88527-22), CV1360N-CS (680-88527-23), CV1360O-CS (680-88527-24), CV1360P-CS (680-88527-25), CV1360Q-CS (680-88527-26), CV1360R-CS (680-88527-27), CV1360S-CS (680-88527-28), CV1360T-CS (680-88527-29), CV1360AB-GS (680-88527-30), CV1360AC-GS (680-88527-31), CV1360AD-GS (680-88527-32) and CV1360AE-GS (680-88527-33) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and analyzed on 03/26/2013, 03/27/2013 and 03/28/2013.

Samples CV1360N-CS (680-88527-23)[4X], CV1360P-CS (680-88527-25)[4X], CV1360R-CS (680-88527-27)[4X] and CV1360S-CS (680-88527-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

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

Sample 032013-RB-Bowls + Spoons (680-88527-34) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/22/2013 and analyzed on 03/25/2013.

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: 680-88527-2

Sdg Number: 68088527-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88527-21	CV1360L-CS	Solid	03/19/2013 1350	03/21/2013 0944
680-88527-21MS	CV1360L-CS	Solid	03/19/2013 1350	03/21/2013 0944
680-88527-21MSD	CV1360L-CS	Solid	03/19/2013 1350	03/21/2013 0944
680-88527-22	CV1360M-CS	Solid	03/19/2013 1354	03/21/2013 0944
680-88527-23	CV1360N-CS	Solid	03/19/2013 1400	03/21/2013 0944
680-88527-24	CV1360O-CS	Solid	03/19/2013 1410	03/21/2013 0944
680-88527-25	CV1360P-CS	Solid	03/19/2013 1420	03/21/2013 0944
680-88527-26	CV1360Q-CS	Solid	03/19/2013 1440	03/21/2013 0944
680-88527-27	CV1360R-CS	Solid	03/19/2013 1445	03/21/2013 0944
680-88527-28	CV1360S-CS	Solid	03/19/2013 1453	03/21/2013 0944
680-88527-29	CV1360T-CS	Solid	03/19/2013 1523	03/21/2013 0944
680-88527-30	CV1360AB-GS	Solid	03/19/2013 1405	03/21/2013 0944
680-88527-31	CV1360AC-GS	Solid	03/19/2013 1429	03/21/2013 0944
680-88527-32	CV1360AD-GS	Solid	03/19/2013 1448	03/21/2013 0944
680-88527-33	CV1360AE-GS	Solid	03/19/2013 1455	03/21/2013 0944
680-88527-34	032013-RB-Bowls + Spoons	Water	03/20/2013 1030	03/21/2013 0944

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

Sdg Number: 68088527-2

Description	Lab Location	Method	Preparation Method
<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: 680-88527-2

Sdg Number: 68088527-2

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



## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

Sdg Number: 68088527-2

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

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

Sdg Number: 68088527-2

### 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: 660-135697</b>					
LCS 660-135697/2-A	Lab Control Sample	T	Water	3520C	
LCSD 660-135697/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 660-135697/1-A	Method Blank	T	Water	3520C	
680-88527-34	032013-RB-Bowls + Spoons	T	Water	3520C	
680-88527-34MS	Matrix Spike	T	Water	3520C	
<b>Prep Batch: 660-135735</b>					
LCS 660-135735/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135735/1-A	Method Blank	T	Solid	3546	
680-88527-A-5-B MS	Matrix Spike	T	Solid	3546	
680-88527-A-5-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88527-22	CV1360M-CS	T	Solid	3546	
680-88527-23	CV1360N-CS	T	Solid	3546	
680-88527-24	CV1360O-CS	T	Solid	3546	
680-88527-25	CV1360P-CS	T	Solid	3546	
680-88527-26	CV1360Q-CS	T	Solid	3546	
680-88527-27	CV1360R-CS	T	Solid	3546	
680-88527-28	CV1360S-CS	T	Solid	3546	
680-88527-29	CV1360T-CS	T	Solid	3546	
680-88527-30	CV1360AB-GS	T	Solid	3546	
<b>Prep Batch: 660-135754</b>					
LCS 660-135754/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135754/1-A	Method Blank	T	Solid	3546	
680-88527-21	CV1360L-CS	T	Solid	3546	
680-88527-21MS	Matrix Spike	T	Solid	3546	
680-88527-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88527-31	CV1360AC-GS	T	Solid	3546	
680-88527-32	CV1360AD-GS	T	Solid	3546	
680-88527-33	CV1360AE-GS	T	Solid	3546	
<b>Analysis Batch:660-135792</b>					
LCS 660-135697/2-A	Lab Control Sample	T	Water	8270C LL	660-135697
LCS 660-135735/2-A	Lab Control Sample	T	Solid	8270C LL	660-135735
MB 660-135735/1-A	Method Blank	T	Solid	8270C LL	660-135735
680-88527-A-5-B MS	Matrix Spike	T	Solid	8270C LL	660-135735
680-88527-A-5-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135735
680-88527-22	CV1360M-CS	T	Solid	8270C LL	660-135735
680-88527-23	CV1360N-CS	T	Solid	8270C LL	660-135735
<b>Analysis Batch:660-135796</b>					
LCSD 660-135697/3-A	Lab Control Sample Duplicate	T	Water	8270C LL	660-135697
MB 660-135697/1-A	Method Blank	T	Water	8270C LL	660-135697
680-88527-34	032013-RB-Bowls + Spoons	T	Water	8270C LL	660-135697
680-88527-34MS	Matrix Spike	T	Water	8270C LL	660-135697

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## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

Sdg Number: 68088527-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:660-135830</b>					
680-88527-24	CV1360O-CS	T	Solid	8270C LL	660-135735
<b>Analysis Batch:660-135850</b>					
680-88527-25	CV1360P-CS	T	Solid	8270C LL	660-135735
680-88527-26	CV1360Q-CS	T	Solid	8270C LL	660-135735
680-88527-27	CV1360R-CS	T	Solid	8270C LL	660-135735
680-88527-28	CV1360S-CS	T	Solid	8270C LL	660-135735
680-88527-29	CV1360T-CS	T	Solid	8270C LL	660-135735
680-88527-30	CV1360AB-GS	T	Solid	8270C LL	660-135735
<b>Analysis Batch:660-135902</b>					
LCS 660-135754/2-A	Lab Control Sample	T	Solid	8270C LL	660-135754
MB 660-135754/1-A	Method Blank	T	Solid	8270C LL	660-135754
680-88527-21	CV1360L-CS	T	Solid	8270C LL	660-135754
680-88527-21MS	Matrix Spike	T	Solid	8270C LL	660-135754
680-88527-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135754
680-88527-31	CV1360AC-GS	T	Solid	8270C LL	660-135754
680-88527-32	CV1360AD-GS	T	Solid	8270C LL	660-135754
680-88527-33	CV1360AE-GS	T	Solid	8270C LL	660-135754

#### Report Basis

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

Sdg Number: 68088527-2

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135709</b>					
MB 660-135709/1	Method Blank	T	Solid	Moisture	
680-88527-A-5 MS	Matrix Spike	T	Solid	Moisture	
680-88527-A-5 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88527-A-21 MSMS	Matrix Spike	T	Solid	Moisture	
680-88527-A-21 MSDMSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88527-21	CV1360L-CS	T	Solid	Moisture	
680-88527-22	CV1360M-CS	T	Solid	Moisture	
680-88527-23	CV1360N-CS	T	Solid	Moisture	
680-88527-24	CV1360O-CS	T	Solid	Moisture	
680-88527-25	CV1360P-CS	T	Solid	Moisture	
680-88527-26	CV1360Q-CS	T	Solid	Moisture	
680-88527-27	CV1360R-CS	T	Solid	Moisture	
680-88527-28	CV1360S-CS	T	Solid	Moisture	
680-88527-29	CV1360T-CS	T	Solid	Moisture	
680-88527-30	CV1360AB-GS	T	Solid	Moisture	
680-88527-31	CV1360AC-GS	T	Solid	Moisture	
680-88527-32	CV1360AD-GS	T	Solid	Moisture	
680-88527-33	CV1360AE-GS	T	Solid	Moisture	

#### Report Basis

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: ICIS 660-135466/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 12:54 Lab File ID: 1AC15003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:45

Lab Sample ID: IC 660-135466/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:09 Lab File ID: 1AC15004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:47

Lab Sample ID: IC 660-135466/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:24 Lab File ID: 1AC15005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:39 Lab File ID: 1AC15006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.02	Split Peak	cantins	03/15/13 14:48

Lab Sample ID: IC 660-135466/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 13:54 Lab File ID: 1AC15007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 14:49

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973 Analysis Batch Number: 135466Lab Sample ID: IC 660-135466/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:10 Lab File ID: 1AC15008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.04	Split Peak	cantins	03/15/13 14:49

Lab Sample ID: IC 660-135466/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:25 Lab File ID: 1AC15009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.05	Split Peak	cantins	03/15/13 14:50

Lab Sample ID: ICV 660-135466/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/15/13 14:39 Lab File ID: 1AC15010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.45	Baseline Event	cantins	03/15/13 15:02
Indeno[1,2,3-cd]pyrene	8.03	Split Peak	cantins	03/15/13 15:00

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973 Analysis Batch Number: 135850Lab Sample ID: CCVIS 660-135850/3 Client Sample ID: Date Analyzed: 03/26/13 11:28 Lab File ID: 1AC26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	7.97	Split Peak	cantins	03/26/13 11:41

Lab Sample ID: 680-88527-25 Client Sample ID: CV1360P-CSDate Analyzed: 03/26/13 19:54 Lab File ID: 1AC26029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/27/13 16:41
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:41
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/27/13 16:42

Lab Sample ID: 680-88527-26 Client Sample ID: CV1360Q-CSDate Analyzed: 03/26/13 20:09 Lab File ID: 1AC26030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/27/13 16:43
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:43
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/27/13 16:43

Lab Sample ID: 680-88527-27 Client Sample ID: CV1360R-CSDate Analyzed: 03/26/13 20:24 Lab File ID: 1AC26031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/27/13 16:44
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:44
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/27/13 16:45

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973 Analysis Batch Number: 135850Lab Sample ID: 680-88527-28 Client Sample ID: CV1360S-CSDate Analyzed: 03/26/13 20:40 Lab File ID: 1AC26032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	4.49	Analyte not Identified by the Data System	cantins	03/27/13 12:43
Benzo[b]fluoranthene	7.02	Split Peak	cantins	03/27/13 16:47
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:47

Lab Sample ID: 680-88527-29 Client Sample ID: CV1360T-CSDate Analyzed: 03/26/13 20:54 Lab File ID: 1AC26033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/27/13 16:49
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:49
Indeno[1,2,3-cd]pyrene	8.00	Split Peak	cantins	03/27/13 16:49

Lab Sample ID: 680-88527-30 Client Sample ID: CV1360AB-GSDate Analyzed: 03/26/13 21:10 Lab File ID: 1AC26034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.03	Split Peak	cantins	03/27/13 16:54
Benzo[k]fluoranthene	7.04	Baseline Event	cantins	03/27/13 16:54
Indeno[1,2,3-cd]pyrene	8.01	Split Peak	cantins	03/27/13 16:55



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: CCVIS 660-135830/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 10:35 Lab File ID: 1CC27003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 10:50

Lab Sample ID: 680-88527-24 Client Sample ID: CV13600-CSDate Analyzed: 03/27/13 16:18 Lab File ID: 1CC27021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/27/13 17:26
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	03/27/13 17:26
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	03/27/13 17:26

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: CCVIS 660-135902/3 Client Sample ID: Date Analyzed: 03/28/13 11:59 Lab File ID: 1CC28003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/13 12:17

Lab Sample ID: LCS 660-135754/2-A Client Sample ID: Date Analyzed: 03/28/13 15:04 Lab File ID: 1CC28013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 16:59

Lab Sample ID: 680-88527-21 Client Sample ID: CV1360L-CSDate Analyzed: 03/28/13 15:23 Lab File ID: 1CC28014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.53	Split Peak	cantins	03/28/13 16:59
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	03/28/13 17:00
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	03/28/13 17:00

Lab Sample ID: 680-88527-21 MS Client Sample ID: CV1360L-CS MSDate Analyzed: 03/28/13 15:41 Lab File ID: 1CC28015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:04

Lab Sample ID: 680-88527-21 MSD Client Sample ID: CV1360L-CS MSDDate Analyzed: 03/28/13 15:59 Lab File ID: 1CC28016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:12

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88527-31 Client Sample ID: CV1360AC-GSDate Analyzed: 03/28/13 16:18 Lab File ID: 1CC28017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.55	Analyte Misidentified by the Data System	cantins	03/28/13 17:12
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:13

Lab Sample ID: 680-88527-33 Client Sample ID: CV1360AE-GSDate Analyzed: 03/28/13 16:54 Lab File ID: 1CC28019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	03/28/13 17:19
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	03/28/13 17:19
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:20
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	03/28/13 17:19
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	03/28/13 17:19

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: IC 660-134781/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: ICV 660-134781/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973 Analysis Batch Number: 135792Lab Sample ID: CCVIS 660-135792/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 10:32 Lab File ID: 1DC26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/26/13 10:52

Lab Sample ID: LCS 660-135697/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 15:31 Lab File ID: 1DC26013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.88	Split Peak	cantins	03/26/13 15:51

Lab Sample ID: LCS 660-135735/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 16:16 Lab File ID: 1DC26015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.87	Split Peak	cantins	03/27/13 16:01

Lab Sample ID: 680-88527-A-5-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 18:09 Lab File ID: 1DC26020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.87	Split Peak	cantins	03/27/13 16:16

Lab Sample ID: 680-88527-A-5-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 03/26/13 18:31 Lab File ID: 1DC26021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.87	Split Peak	cantins	03/27/13 16:16



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973 Analysis Batch Number: 135792Lab Sample ID: 680-88527-22 Client Sample ID: CV1360M-CSDate Analyzed: 03/26/13 21:32 Lab File ID: 1DC26029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	03/27/13 16:24

Lab Sample ID: 680-88527-23 Client Sample ID: CV1360N-CSDate Analyzed: 03/26/13 21:54 Lab File ID: 1DC26030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.87	Split Peak	cantins	03/27/13 16:25
Benzo[g,h,i]perylene	15.32	Baseline Event	cantins	03/27/13 16:25

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973 Analysis Batch Number: 135796Lab Sample ID: CCVIS 660-135796/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/25/13 10:32 Lab File ID: 1DC25003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/25/13 10:52

Lab Sample ID: LCSD 660-135697/3-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/25/13 12:02 Lab File ID: 1DC25007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.85	Split Peak	cantins	03/26/13 15:16

Lab Sample ID: 680-88527-34 MS Client Sample ID: 032013-RB-Bowls + Spoons MSDate Analyzed: 03/25/13 18:49 Lab File ID: 1DC25025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.88	Split Peak	cantins	03/26/13 15:48

# 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.: 680-88527-2

SDG No.: 68088527-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1360L-CS	680-88527-21	62
CV1360M-CS	680-88527-22	81
CV1360N-CS	680-88527-23	89
CV1360O-CS	680-88527-24	77
CV1360P-CS	680-88527-25	119
CV1360Q-CS	680-88527-26	74
CV1360R-CS	680-88527-27	58
CV1360S-CS	680-88527-28	89
CV1360T-CS	680-88527-29	76
CV1360AB-GS	680-88527-30	76
CV1360AC-GS	680-88527-31	73
CV1360AD-GS	680-88527-32	40
CV1360AE-GS	680-88527-33	62
	MB 660-135735/1-A	67
	MB 660-135754/1-A	82
	LCS 660-135735/2-A	74
	LCS 660-135754/2-A	90
	680-88527-A-5-B MS	89
CV1360L-CS MS	680-88527-21 MS	71
	680-88527-A-5-C MSD	87
CV1360L-CS MSD	680-88527-21 MSD	75

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.: 680-88527-2

SDG No.: 68088527-2

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
032013-RB-Bowls + Spoons	680-88527-34	63
	MB 660-135697/1-A	67
	LCS 660-135697/2-A	65
	LCSD 660-135697/3-A	67
032013-RB-Bowls + Spoons MS	680-88527-34 MS	59

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.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Water Level: Low Lab File ID: 1DC26013.D  
 Lab ID: LCS 660-135697/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	6.45	65	55-132	
Acenaphthylene	10.0	6.67	67	39-130	
Anthracene	10.0	6.25	63	39-130	
Benzo[a]anthracene	10.0	6.89	69	54-135	
Benzo[a]pyrene	10.0	4.89	49	21-130	
Benzo[b]fluoranthene	10.0	5.93	59	37-130	
Benzo[g,h,i]perylene	10.0	3.96	40	26-130	
Benzo[k]fluoranthene	10.0	5.31	53	38-130	
Chrysene	10.0	6.39	64	56-130	
Dibenz(a,h)anthracene	10.0	3.82	38	13-130	
Fluoranthene	10.0	6.93	69	60-130	
Fluorene	10.0	6.79	68	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.64	36	21-130	
1-Methylnaphthalene	10.0	7.00	70	49-130	
2-Methylnaphthalene	10.0	6.56	66	48-130	
Naphthalene	10.0	6.42	64	54-133	
Phenanthrene	10.0	6.58	66	60-136	
Pyrene	10.0	6.71	67	60-138	

# 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.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1DC26015.D  
 Lab ID: LCS 660-135735/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	467	70	39-130	
Acenaphthylene	664	478	72	38-130	
Anthracene	664	484	73	37-130	
Benzo[a]anthracene	664	540	81	40-130	
Benzo[a]pyrene	664	470	71	49-130	
Benzo[b]fluoranthene	664	502	76	37-130	
Benzo[g,h,i]perylene	664	456	69	32-130	
Benzo[k]fluoranthene	664	511	77	32-130	
Chrysene	664	486	73	41-130	
Dibenz(a,h)anthracene	664	492	74	27-130	
Fluoranthene	664	496	75	40-130	
Fluorene	664	495	75	40-130	
Indeno[1,2,3-cd]pyrene	664	465	70	30-130	
1-Methylnaphthalene	664	518	78	31-130	
2-Methylnaphthalene	664	495	74	33-130	
Naphthalene	664	471	71	36-130	
Phenanthrene	664	484	73	42-130	
Pyrene	664	491	74	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.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1CC28013.D  
 Lab ID: LCS 660-135754/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	560	86	39-130	
Acenaphthylene	653	589	90	38-130	
Anthracene	653	581	89	37-130	
Benzo[a]anthracene	653	617	95	40-130	
Benzo[a]pyrene	653	595	91	49-130	
Benzo[b]fluoranthene	653	631	97	37-130	
Benzo[g,h,i]perylene	653	585	90	32-130	
Benzo[k]fluoranthene	653	644	99	32-130	
Chrysene	653	597	91	41-130	
Dibenz(a,h)anthracene	653	604	92	27-130	
Fluoranthene	653	612	94	40-130	
Fluorene	653	593	91	40-130	
Indeno[1,2,3-cd]pyrene	653	608	93	30-130	
1-Methylnaphthalene	653	619	95	31-130	
2-Methylnaphthalene	653	636	97	33-130	
Naphthalene	653	612	94	36-130	
Phenanthrene	653	547	84	42-130	
Pyrene	653	647	99	44-130	

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Water Level: Low Lab File ID: 1DC25007.D  
 Lab ID: LCSD 660-135697/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	10.0	6.75	68	5	35	55-132	
Acenaphthylene	10.0	7.02	70	5	35	39-130	
Anthracene	10.0	6.83	68	9	35	39-130	
Benzo[a]anthracene	10.0	7.09	71	3	35	54-135	
Benzo[a]pyrene	10.0	4.98	50	2	35	21-130	
Benzo[b]fluoranthene	10.0	5.58	56	6	35	37-130	
Benzo[g,h,i]perylene	10.0	4.24	42	7	35	26-130	
Benzo[k]fluoranthene	10.0	5.37	54	1	35	38-130	
Chrysene	10.0	6.38	64	0	35	56-130	
Dibenz(a,h)anthracene	10.0	4.06	41	6	35	13-130	
Fluoranthene	10.0	7.23	72	4	35	60-130	
Fluorene	10.0	7.38	74	8	35	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.94	39	8	35	21-130	
1-Methylnaphthalene	10.0	7.23	72	3	35	49-130	
2-Methylnaphthalene	10.0	6.96	70	6	35	48-130	
Naphthalene	10.0	6.83	68	6	35	54-133	
Phenanthrene	10.0	7.00	70	6	35	60-136	
Pyrene	10.0	6.94	69	3	35	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.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1DC26020.D  
 Lab ID: 680-88527-A-5-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1030	150 U	874	85	39-130	
Acenaphthylene	1030	9.1 J	888	86	38-130	
Anthracene	1030	12 J	928	89	37-130	
Benzo[a]anthracene	1030	60	1080	99	40-130	
Benzo[a]pyrene	1030	48	960	89	49-130	
Benzo[b]fluoranthene	1030	77	1090	99	37-130	
Benzo[g,h,i]perylene	1030	38	969	91	32-130	
Benzo[k]fluoranthene	1030	27	985	93	32-130	
Chrysene	1030	54	1010	93	41-130	
Dibenz(a,h)anthracene	1030	12 J	980	94	27-130	
Fluoranthene	1030	81	1100	99	40-130	
Fluorene	1030	31 U	922	90	40-130	
Indeno[1,2,3-cd]pyrene	1030	31	918	86	30-130	
1-Methylnaphthalene	1030	11 J	964	93	31-130	
2-Methylnaphthalene	1030	15 J	930	89	33-130	
Naphthalene	1030	16 J	877	84	36-130	
Phenanthrene	1030	45	988	92	42-130	
Pyrene	1030	68	1050	95	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1CC28015.D  
 Lab ID: 680-88527-21 MS Client ID: CV1360L-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1100	160 U	838	76	39-130	
Acenaphthylene	1100	18 J	903	80	38-130	
Anthracene	1100	29	920	81	37-130	
Benzo[a]anthracene	1100	130	904	70	40-130	
Benzo[a]pyrene	1100	130	933	73	49-130	
Benzo[b]fluoranthene	1100	230	977	68	37-130	
Benzo[g,h,i]perylene	1100	100	847	68	32-130	
Benzo[k]fluoranthene	1100	72	959	81	32-130	
Chrysene	1100	170	933	70	41-130	
Dibenz(a,h)anthracene	1100	28 J	876	77	27-130	
Fluoranthene	1100	270	1040	70	40-130	
Fluorene	1100	15 J	898	80	40-130	
Indeno[1,2,3-cd]pyrene	1100	95	806	65	30-130	
1-Methylnaphthalene	1100	39 J	981	86	31-130	
2-Methylnaphthalene	1100	59 J	912	77	33-130	
Naphthalene	1100	91	949	78	36-130	
Phenanthrene	1100	140	938	72	42-130	
Pyrene	1100	250	1060	73	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Water Level: Low Lab File ID: 1DC25025.D  
 Lab ID: 680-88527-34 MS Client ID: 032013-RB-Bowls + Spoons MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	9.90	2.0 U	5.95	60	55-132	
Acenaphthylene	9.90	1.0 U	6.16	62	39-130	
Anthracene	9.90	0.20 U	6.02	61	39-130	
Benzo[a]anthracene	9.90	0.20 U	6.31	64	54-135	
Benzo[a]pyrene	9.90	0.20 U	4.73	48	21-130	
Benzo[b]fluoranthene	9.90	0.20 U	5.27	53	37-130	
Benzo[g,h,i]perylene	9.90	0.50 U	3.58	36	26-130	
Benzo[k]fluoranthene	9.90	0.20 U	4.88	49	38-130	
Chrysene	9.90	0.20 U	5.79	58	56-130	
Dibenz(a,h)anthracene	9.90	0.20 U	3.66	37	13-130	
Fluoranthene	9.90	0.50 U	6.30	64	60-130	
Fluorene	9.90	2.0 U	6.21	63	55-140	
Indeno[1,2,3-cd]pyrene	9.90	0.20 U	3.46	35	21-130	
1-Methylnaphthalene	9.90	2.0 U	6.55	66	49-130	
2-Methylnaphthalene	9.90	2.0 U	6.27	63	48-130	
Naphthalene	9.90	2.0 U	6.00	61	54-133	
Phenanthrene	9.90	0.50 U	6.08	61	60-136	
Pyrene	9.90	0.50 U	6.19	63	60-138	

# 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.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1DC26021.D  
 Lab ID: 680-88527-A-5-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1030	856	83	2	40	39-130	
Acenaphthylene	1030	883	85	1	40	38-130	
Anthracene	1030	933	90	0	40	37-130	
Benzo[a]anthracene	1030	1110	102	3	40	40-130	
Benzo[a]pyrene	1030	996	92	4	40	49-130	
Benzo[b]fluoranthene	1030	1140	103	4	40	37-130	
Benzo[g,h,i]perylene	1030	984	92	2	40	32-130	
Benzo[k]fluoranthene	1030	983	93	0	40	32-130	
Chrysene	1030	1020	94	1	40	41-130	
Dibenz(a,h)anthracene	1030	971	93	1	40	27-130	
Fluoranthene	1030	1200	109	9	40	40-130	
Fluorene	1030	916	89	1	40	40-130	
Indeno[1,2,3-cd]pyrene	1030	946	89	3	40	30-130	
1-Methylnaphthalene	1030	967	93	0	40	31-130	
2-Methylnaphthalene	1030	931	89	0	40	33-130	
Naphthalene	1030	886	85	1	40	36-130	
Phenanthrene	1030	1000	93	2	40	42-130	
Pyrene	1030	1120	103	7	40	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Matrix: Solid Level: Low Lab File ID: 1CC28016.D  
 Lab ID: 680-88527-21 MSD Client ID: CV1360L-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1100	828	75	1	40	39-130	
Acenaphthylene	1100	888	79	2	40	38-130	
Anthracene	1100	930	82	1	40	37-130	
Benzo[a]anthracene	1100	1110	89	21	40	40-130	
Benzo[a]pyrene	1100	984	78	5	40	49-130	
Benzo[b]fluoranthene	1100	1120	82	14	40	37-130	
Benzo[g,h,i]perylene	1100	943	76	11	40	32-130	
Benzo[k]fluoranthene	1100	1060	90	10	40	32-130	
Chrysene	1100	935	70	0	40	41-130	
Dibenz(a,h)anthracene	1100	899	79	3	40	27-130	
Fluoranthene	1100	1180	83	13	40	40-130	
Fluorene	1100	911	81	1	40	40-130	
Indeno[1,2,3-cd]pyrene	1100	965	79	18	40	30-130	
1-Methylnaphthalene	1100	995	87	1	40	31-130	
2-Methylnaphthalene	1100	928	79	2	40	33-130	
Naphthalene	1100	967	80	2	40	36-130	
Phenanthrene	1100	1030	80	9	40	42-130	
Pyrene	1100	1250	91	17	40	44-130	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1DC25005.D Lab Sample ID: MB 660-135697/1-A  
Matrix: Water Date Extracted: 03/22/2013 15:26  
Instrument ID: BSMD5973 Date Analyzed: 03/25/2013 11:17  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCSD 660-135697/3-A	1DC25007.D	03/25/2013 12:02
032013-RB-Bowls + Spoons	680-88527-34	1DC25024.D	03/25/2013 18:26
032013-RB-Bowls + Spoons MS	680-88527-34 MS	1DC25025.D	03/25/2013 18:49
	LCS 660-135697/2-A	1DC26013.D	03/26/2013 15:31

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1DC26014.D Lab Sample ID: MB 660-135735/1-A  
Matrix: Solid Date Extracted: 03/25/2013 11:55  
Instrument ID: BSMD5973 Date Analyzed: 03/26/2013 15:54  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135735/2-A	1DC26015.D	03/26/2013 16:16
	680-88527-A-5-B MS	1DC26020.D	03/26/2013 18:09
	680-88527-A-5-C MSD	1DC26021.D	03/26/2013 18:31
CV1360P-CS	680-88527-25	1AC26029.D	03/26/2013 19:54
CV1360Q-CS	680-88527-26	1AC26030.D	03/26/2013 20:09
CV1360R-CS	680-88527-27	1AC26031.D	03/26/2013 20:24
CV1360S-CS	680-88527-28	1AC26032.D	03/26/2013 20:40
CV1360T-CS	680-88527-29	1AC26033.D	03/26/2013 20:54
CV1360AB-GS	680-88527-30	1AC26034.D	03/26/2013 21:10
CV1360M-CS	680-88527-22	1DC26029.D	03/26/2013 21:32
CV1360N-CS	680-88527-23	1DC26030.D	03/26/2013 21:54
CV1360O-CS	680-88527-24	1CC27021.D	03/27/2013 16:18



FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1CC28012.D Lab Sample ID: MB 660-135754/1-A  
Matrix: Solid Date Extracted: 03/25/2013 16:58  
Instrument ID: BSMC5973 Date Analyzed: 03/28/2013 14:46  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135754/2-A	1CC28013.D	03/28/2013 15:04
CV1360L-CS	680-88527-21	1CC28014.D	03/28/2013 15:23
CV1360L-CS MS	680-88527-21 MS	1CC28015.D	03/28/2013 15:41
CV1360L-CS MSD	680-88527-21 MSD	1CC28016.D	03/28/2013 15:59
CV1360AC-GS	680-88527-31	1CC28017.D	03/28/2013 16:18
CV1360AD-GS	680-88527-32	1CC28018.D	03/28/2013 16:36
CV1360AE-GS	680-88527-33	1CC28019.D	03/28/2013 16:54

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1AC15002.D DFTPP Injection Date: 03/15/2013  
Instrument ID: BSMA5973 DFTPP Injection Time: 12:38  
Analysis Batch No.: 135466

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	74.2
68	Less than 2.0 % of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	60.2
70	Less than 2.0 % of mass 69	0.4 (0.7) 1
127	10.0 - 80.0 % of mass 198	48.9
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	24.1
365	Greater than 1.0 % of mass 198	5.4
441	Present but less than mass 443	7.7
442	Greater than 50.0 % of mass 198	57.8
443	15.0 - 24.0 % of mass 442	11.6 (20.0) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-135466/3	1AC15003.D	03/15/2013	12:54
	IC 660-135466/4	1AC15004.D	03/15/2013	13:09
	IC 660-135466/5	1AC15005.D	03/15/2013	13:24
	IC 660-135466/6	1AC15006.D	03/15/2013	13:39
	IC 660-135466/7	1AC15007.D	03/15/2013	13:54
	IC 660-135466/8	1AC15008.D	03/15/2013	14:10
	IC 660-135466/9	1AC15009.D	03/15/2013	14:25
	ICV 660-135466/10	1AC15010.D	03/15/2013	14:39

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1AC26002.D DFTPP Injection Date: 03/26/2013  
Instrument ID: BSMA5973 DFTPP Injection Time: 11:15  
Analysis Batch No.: 135850

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	73.6
68	Less than 2.0 % of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	57.4
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	51.8
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	7.0
275	10.0 - 60.0 % of mass 198	27.4
365	Greater than 1.0 % of mass 198	7.2
441	Present but less than mass 443	11.0
442	Greater than 50.0 % of mass 198	65.2
443	15.0 - 24.0 % of mass 442	12.4 (19.1) 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 660-135850/3	1AC26003.D	03/26/2013	11:28
CV1360P-CS	680-88527-25	1AC26029.D	03/26/2013	19:54
CV1360Q-CS	680-88527-26	1AC26030.D	03/26/2013	20:09
CV1360R-CS	680-88527-27	1AC26031.D	03/26/2013	20:24
CV1360S-CS	680-88527-28	1AC26032.D	03/26/2013	20:40
CV1360T-CS	680-88527-29	1AC26033.D	03/26/2013	20:54
CV1360AB-GS	680-88527-30	1AC26034.D	03/26/2013	21:10

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013  
Instrument ID: BSMC5973 DFTPP Injection Time: 11:41  
Analysis Batch No.: 134776

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.3
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	59.2
70	Less than 2.0 % of mass 69	0.3 (0.4)1
127	10.0 - 80.0 % of mass 198	53.6
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.6
275	10.0 - 60.0 % of mass 198	19.2
365	Greater than 1.0 % of mass 198	2.0
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	52.1
443	15.0 - 24.0 % of mass 442	8.7 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134776/3	1CB22003.D	02/22/2013	11:57
	IC 660-134776/4	1CB22004.D	02/22/2013	12:16
	IC 660-134776/5	1CB22005.D	02/22/2013	12:34
	IC 660-134776/6	1CB22006.D	02/22/2013	12:53
	ICIS 660-134776/7	1CB22007.D	02/22/2013	13:11
	IC 660-134776/8	1CB22008.D	02/22/2013	13:29
	IC 660-134776/9	1CB22009.D	02/22/2013	13:48
	ICV 660-134776/10	1CB22010.D	02/22/2013	14:06

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1CC27002.D DFTPP Injection Date: 03/27/2013  
Instrument ID: BSMC5973 DFTPP Injection Time: 10:18  
Analysis Batch No.: 135830

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	1.0 (2.0) 1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.8) 1
127	10.0 - 80.0 % of mass 198	47.6
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	18.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	8.2
442	Greater than 50.0 % of mass 198	55.2
443	15.0 - 24.0 % of mass 442	12.1 (21.9) 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
	CCVIS 660-135830/3	1CC27003.D	03/27/2013	10:35
CV13600-CS	680-88527-24	1CC27021.D	03/27/2013	16:18

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1CC28002.D DFTPP Injection Date: 03/28/2013  
Instrument ID: BSMC5973 DFTPP Injection Time: 11:42  
Analysis Batch No.: 135902

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.0
68	Less than 2.0 % of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	43.3
70	Less than 2.0 % of mass 69	0.3 (0.8) 1
127	10.0 - 80.0 % of mass 198	48.0
197	Less than 2.0 % of mass 198	0.9
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	23.6
365	Greater than 1.0 % of mass 198	4.4
441	Present but less than mass 443	13.2
442	Greater than 50.0 % of mass 198	91.4
443	15.0 - 24.0 % of mass 442	20.8 (22.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135902/3	1CC28003.D	03/28/2013	11:59
	MB 660-135754/1-A	1CC28012.D	03/28/2013	14:46
	LCS 660-135754/2-A	1CC28013.D	03/28/2013	15:04
CV1360L-CS	680-88527-21	1CC28014.D	03/28/2013	15:23
CV1360L-CS MS	680-88527-21 MS	1CC28015.D	03/28/2013	15:41
CV1360L-CS MSD	680-88527-21 MSD	1CC28016.D	03/28/2013	15:59
CV1360AC-GS	680-88527-31	1CC28017.D	03/28/2013	16:18
CV1360AD-GS	680-88527-32	1CC28018.D	03/28/2013	16:36
CV1360AE-GS	680-88527-33	1CC28019.D	03/28/2013	16:54

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013  
Instrument ID: BSMD5973 DFTPP Injection Time: 11:57  
Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.6
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	50.9
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	7.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	64.5
443	15.0 - 24.0 % of mass 442	13.2 (20.5) 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
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1DC25002.D DFTPP Injection Date: 03/25/2013  
Instrument ID: BSMD5973 DFTPP Injection Time: 10:11  
Analysis Batch No.: 135796

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	41.4
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	40.7
70	Less than 2.0 % of mass 69	0.4 (0.9) 1
127	10.0 - 80.0 % of mass 198	48.3
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	6.6
275	10.0 - 60.0 % of mass 198	28.8
365	Greater than 1.0 % of mass 198	3.8
441	Present but less than mass 443	8.9
442	Greater than 50.0 % of mass 198	92.0
443	15.0 - 24.0 % of mass 442	17.8 (19.3) 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 660-135796/3	1DC25003.D	03/25/2013	10:32
	MB 660-135697/1-A	1DC25005.D	03/25/2013	11:17
	LCSD 660-135697/3-A	1DC25007.D	03/25/2013	12:02
032013-RB-Bowls + Spoons	680-88527-34	1DC25024.D	03/25/2013	18:26
032013-RB-Bowls + Spoons MS	680-88527-34 MS	1DC25025.D	03/25/2013	18:49



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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Lab File ID: 1DC26002.D DFTPP Injection Date: 03/26/2013  
Instrument ID: BSMD5973 DFTPP Injection Time: 10:15  
Analysis Batch No.: 135792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	41.3
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	43.9
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	10.0 - 80.0 % of mass 198	48.1
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	7.1
275	10.0 - 60.0 % of mass 198	28.1
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	8.6
442	Greater than 50.0 % of mass 198	79.4
443	15.0 - 24.0 % of mass 442	15.8 (19.9) 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
	CCVIS 660-135792/3	1DC26003.D	03/26/2013	10:32
	LCS 660-135697/2-A	1DC26013.D	03/26/2013	15:31
	MB 660-135735/1-A	1DC26014.D	03/26/2013	15:54
	LCS 660-135735/2-A	1DC26015.D	03/26/2013	16:16
	680-88527-A-5-B MS	1DC26020.D	03/26/2013	18:09
	680-88527-A-5-C MSD	1DC26021.D	03/26/2013	18:31
CV1360M-CS	680-88527-22	1DC26029.D	03/26/2013	21:32
CV1360N-CS	680-88527-23	1DC26030.D	03/26/2013	21:54

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54  
Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N  
Calibration ID: 2833

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	466294	2.30	299519	3.32	466296	4.25
UPPER LIMIT	932588	2.80	599038	3.82	932592	4.75
LOWER LIMIT	233147	1.80	149760	2.82	233148	3.75
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-135466/10		495704	2.31	291089	3.33	473626 4.25

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
SDG No.: 68088527-2  
Sample No.: ICIS 660-135466/3 Date Analyzed: 03/15/2013 12:54  
Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
Lab File ID (Standard): 1AC15003.D Heated Purge: (Y/N) N  
Calibration ID: 2833

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	425528	6.25	422731	7.33		
UPPER LIMIT	851056	6.75	845462	7.83		
LOWER LIMIT	212764	5.75	211366	6.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-135466/10		433094	6.24	475583	7.33	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		509128	2.27	363732	3.29	582610	4.21
UPPER LIMIT		1018256	2.77	727464	3.79	1165220	4.71
LOWER LIMIT		254564	1.77	181866	2.79	291305	3.71
LAB SAMPLE ID		CLIENT SAMPLE ID					
680-88527-25	CV1360P-CS	365295	2.28	298565	3.30	422056	4.22
680-88527-26	CV1360Q-CS	489070	2.28	362874	3.30	537058	4.22
680-88527-27	CV1360R-CS	488126	2.28	380208	3.30	605749	4.23
680-88527-28	CV1360S-CS	337945	2.28	250760	3.30	387627	4.22
680-88527-29	CV1360T-CS	409120	2.28	308336	3.30	471577	4.22
680-88527-30	CV1360AB-GS	383839	2.28	305451	3.30	442327	4.22

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135850/3 Date Analyzed: 03/26/2013 11:28  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2833

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	582279	6.19	536475	7.27		
UPPER LIMIT	1164558	6.69	1072950	7.77		
LOWER LIMIT	291140	5.69	268238	6.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88527-25	CV1360P-CS	334464	6.22	405118	7.31	
680-88527-26	CV1360Q-CS	441544	6.22	516592	7.32	
680-88527-27	CV1360R-CS	502960	6.22	565624	7.31	
680-88527-28	CV1360S-CS	368013	6.21	382703	7.31	
680-88527-29	CV1360T-CS	462325	6.22	433909	7.31	
680-88527-30	CV1360AB-GS	354704	6.22	452808	7.31	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1215005	3.80	932815	4.89	1859738	5.85	
UPPER LIMIT	2430010	4.30	1865630	5.39	3719476	6.35	
LOWER LIMIT	607503	3.30	466408	4.39	929869	5.35	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134776/10		1383069	3.80	1075067	4.89	2141313	5.85

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
SDG No.: 68088527-2  
Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
Calibration ID: 2760

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2424157	7.80	2664188	9.02		
UPPER LIMIT	4848314	8.30	5328376	9.52		
LOWER LIMIT	1212079	7.30	1332094	8.52		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134776/10		2766374	7.80	3034368	9.02	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
SDG No.: 68088527-2  
Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
Calibration ID: 2760

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	740866	3.73	575327	4.82	1092531	5.76
UPPER LIMIT	1481732	4.23	1150654	5.32	2185062	6.26
LOWER LIMIT	370433	3.23	287664	4.32	546266	5.26
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88527-24	CV13600-CS		871067	3.73	675108	4.82
					1262439	5.76

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1389214	7.70	1427635	8.89		
UPPER LIMIT	2778428	8.20	2855270	9.39		
LOWER LIMIT	694607	7.20	713818	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88527-24	CV13600-CS		1404213	7.70	1341393	8.89

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit =  $\pm$  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.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	797659	3.72	631634	4.81	1190245	5.76	
UPPER LIMIT	1595318	4.22	1263268	5.31	2380490	6.26	
LOWER LIMIT	398830	3.22	315817	4.31	595123	5.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135754/1-A		719073	3.72	559054	4.81	1066935	5.76
LCS 660-135754/2-A		707514	3.72	575821	4.81	1089761	5.76
680-88527-21	CV1360L-CS	736501	3.72	577379	4.81	1094428	5.76
680-88527-21 MS	CV1360L-CS MS	757603	3.72	608144	4.81	1106477	5.76
680-88527-21 MSD	CV1360L-CS MSD	774119	3.72	632579	4.81	1127385	5.76
680-88527-31	CV1360AC-GS	827053	3.72	644453	4.81	1173785	5.76
680-88527-32	CV1360AD-GS	816507	3.72	645744	4.81	1186338	5.76
680-88527-33	CV1360AE-GS	836846	3.72	657403	4.81	1157706	5.76

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1432718	7.70	1426297	8.89		
UPPER LIMIT		2865436	8.20	2852594	9.39		
LOWER LIMIT		716359	7.20	713149	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135754/1-A		1235853	7.70	1249019	8.88		
LCS 660-135754/2-A		1256595	7.70	1278924	8.88		
680-88527-21	CV1360L-CS	1242414	7.70	1251476	8.88		
680-88527-21 MS	CV1360L-CS MS	1334075	7.70	1313910	8.88		
680-88527-21 MSD	CV1360L-CS MSD	1291838	7.70	1252337	8.88		
680-88527-31	CV1360AC-GS	1316303	7.70	1312176	8.88		
680-88527-32	CV1360AD-GS	1336728	7.70	1316002	8.88		
680-88527-33	CV1360AE-GS	1262875	7.70	1210363	8.89		

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	2851402	6.18	1685266	7.86	2758746	9.12	
UPPER LIMIT	5702804	6.68	3370532	8.36	5517492	9.62	
LOWER LIMIT	1425701	5.68	842633	7.36	1379373	8.62	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
SDG No.: 68088527-2  
Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
Calibration ID: 2761

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2741766	11.46	2903096	13.33		
UPPER LIMIT	5483532	11.96	5806192	13.83		
LOWER LIMIT	1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134781/10		3262056	11.46	3389756	13.34	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135796/3 Date Analyzed: 03/25/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC25003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2457604	6.13	1485609	7.80	2487153	9.06
UPPER LIMIT	4915208	6.63	2971218	8.30	4974306	9.56
LOWER LIMIT	1228802	5.63	742805	7.30	1243577	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135697/1-A		2750846	6.12	1668938	7.80	2782312 9.06
LCSD 660-135697/3-A		2646675	6.13	1594693	7.80	2644079 9.06
680-88527-34	032013-RB-Bowls + Spoons	3210887	6.13	2018155	7.80	3253769 9.06
680-88527-34 MS	032013-RB-Bowls + Spoons MS	3091911	6.13	1947517	7.81	3159966 9.06

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135796/3 Date Analyzed: 03/25/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC25003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2626654	11.41	2769617	13.27		
UPPER LIMIT	5253308	11.91	5539234	13.77		
LOWER LIMIT	1313327	10.91	1384809	12.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135697/1-A		2841770	11.40	3012237	13.26	
LCSD 660-135697/3-A		2701890	11.40	2777641	13.26	
680-88527-34	032013-RB-Bowls + Spoons	3202291	11.40	3277921	13.27	
680-88527-34 MS	032013-RB-Bowls + Spoons MS	3116625	11.40	3199516	13.27	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

		NPT		ANT		PHN		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		2497630	6.13	1612962	7.80	2599869	9.06	
UPPER LIMIT		4995260	6.63	3225924	8.30	5199738	9.56	
LOWER LIMIT		1248815	5.63	806481	7.30	1299935	8.56	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 660-135697/2-A		2580814	6.13	1600120	7.81	2567960	9.07	
MB 660-135735/1-A		2470729	6.12	1542046	7.80	2465026	9.06	
LCS 660-135735/2-A		2511458	6.12	1587786	7.80	2548543	9.06	
680-88527-A-5-B MS		2344636	6.13	1467795	7.80	2352101	9.06	
680-88527-A-5-C MSD		2480915	6.12	1550501	7.80	2524842	9.06	
680-88527-22		CV1360M-CS	2434723	6.13	1495924	7.80	2409770	9.06
680-88527-23		CV1360N-CS	2370520	6.12	1491911	7.80	2416757	9.06

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  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.: 680-88527-2  
 SDG No.: 68088527-2  
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2607802	11.40	2561814	13.27		
UPPER LIMIT	5215604	11.90	5123628	13.77		
LOWER LIMIT	1303901	10.90	1280907	12.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 660-135697/2-A		2538705	11.41	2579941	13.27	
MB 660-135735/1-A		2342934	11.40	2419154	13.26	
LCS 660-135735/2-A		2494983	11.40	2552128	13.26	
680-88527-A-5-B MS		2317614	11.40	2389530	13.26	
680-88527-A-5-C MSD		2463704	11.40	2549443	13.26	
680-88527-22	CV1360M-CS	2334503	11.40	2446676	13.26	
680-88527-23	CV1360N-CS	2384931	11.40	2560265	13.27	

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360L-CS</u>	Lab Sample ID: <u>680-88527-21</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.27(g)</u>	Date Analyzed: <u>03/28/2013 15:23</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>40.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	18	J	66	8.2
120-12-7	Anthracene	29		14	6.9
56-55-3	Benzo[a]anthracene	130		13	6.4
50-32-8	Benzo[a]pyrene	130		17	8.6
205-99-2	Benzo[b]fluoranthene	230		20	10
191-24-2	Benzo[g,h,i]perylene	100		33	7.2
207-08-9	Benzo[k]fluoranthene	72		13	5.9
218-01-9	Chrysene	170		15	7.4
53-70-3	Dibenz(a,h)anthracene	28	J	33	6.7
206-44-0	Fluoranthene	270		33	6.6
86-73-7	Fluorene	15	J	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	95		33	12
90-12-0	1-Methylnaphthalene	39	J	66	7.2
91-57-6	2-Methylnaphthalene	59	J	66	12
91-20-3	Naphthalene	91		66	7.2
85-01-8	Phenanthrene	140		13	6.4
129-00-0	Pyrene	250		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28014.D  
 Lab Smp Id: 680-88527-A-21-A Client Smp ID: CV1360L-CS  
 Inj Date : 28-MAR-2013 15:23  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88527-a-21-a  
 Misc Info : 680-88527-A-21-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28014.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.270	Weight Extracted
M	40.275	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	****	*****	*****	*****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	3.722	3.722	(1.000)	736501	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	577379	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1094428	40.0000			
\$ 14 o-Terphenyl	230	6.010	6.010	(1.044)	102143	6.18149	677.7903		
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1242414	40.0000			
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1251476	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	15851	0.82670	90.6458		
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	6920	0.54105	59.3257		
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	4097	0.35172	38.5654		
5 Acenaphthylene	152	4.721	4.722	(0.982)	3906	0.16780	18.3986		
9 Fluorene	166	5.151	5.151	(1.071)	2507	0.13701	15.0226		
11 Phenanthrene	178	5.774	5.774	(1.003)	40541	1.28108	140.4679		
12 Anthracene	178	5.804	5.810	(1.008)	8054	0.26023	28.5337		
13 Carbazole	167	5.915	5.921	(1.028)	7857	0.28558	31.3137		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.610	6.616	(1.148)	85154	2.45711	269.4174
16 Pyrene	202	6.780	6.780	(0.880)	75856	2.27195	249.1152
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	42357	1.18123	129.5195
19 Chrysene	228	7.721	7.721	(1.002)	54872	1.52909	167.6620
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	67234	2.05573	225.4068(M)
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.963)	21961	0.65456	71.7709(M)
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	36326	1.14348	125.3805
24 Indeno(1,2,3-cd)pyrene	276	10.033	10.045	(1.130)	25985	0.86951	95.3402(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	7553	0.25839	28.3316
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.170)	28870	0.92349	101.2590

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28014.D

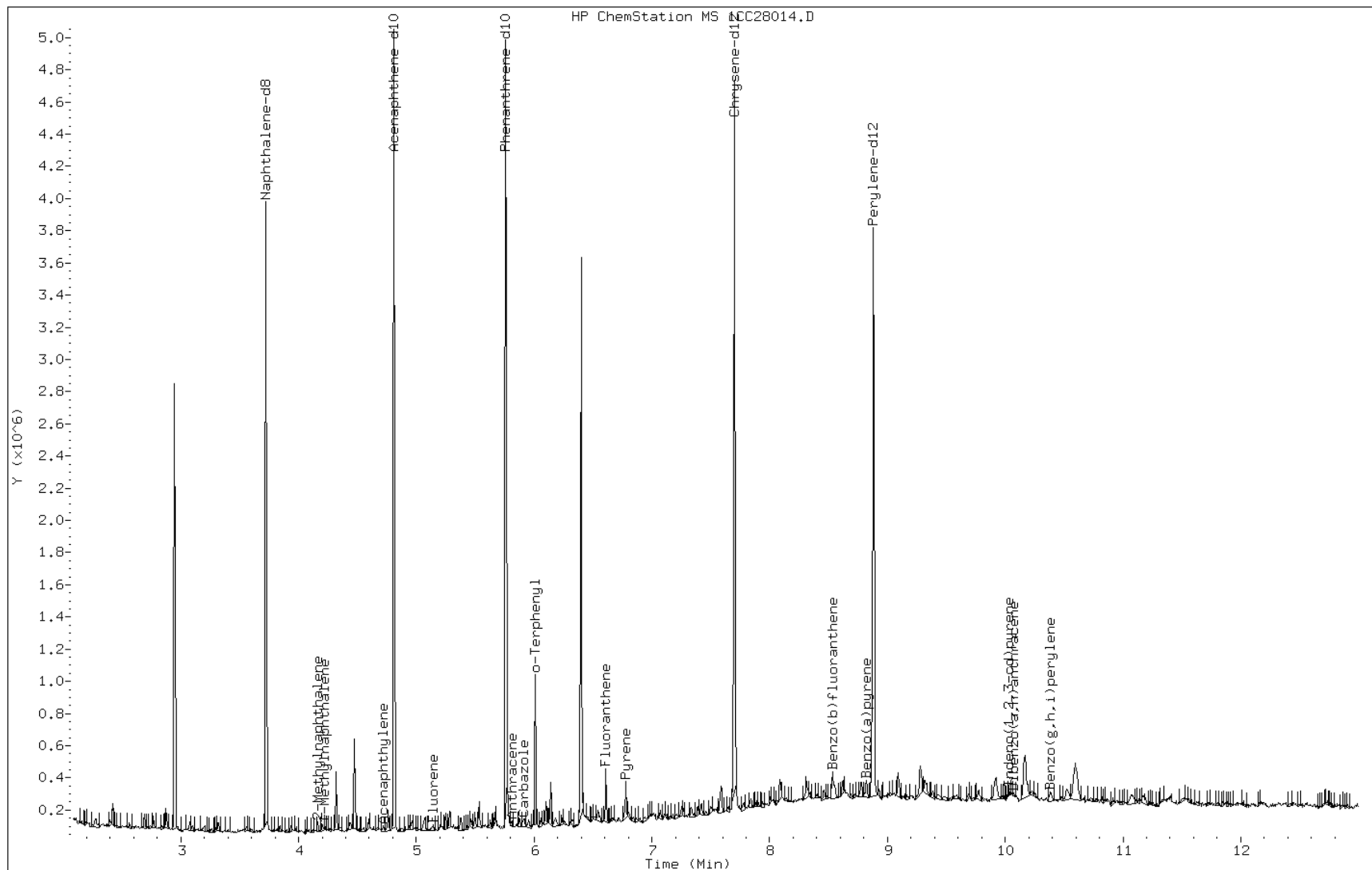
Date: 28-MAR-2013 15:23

Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

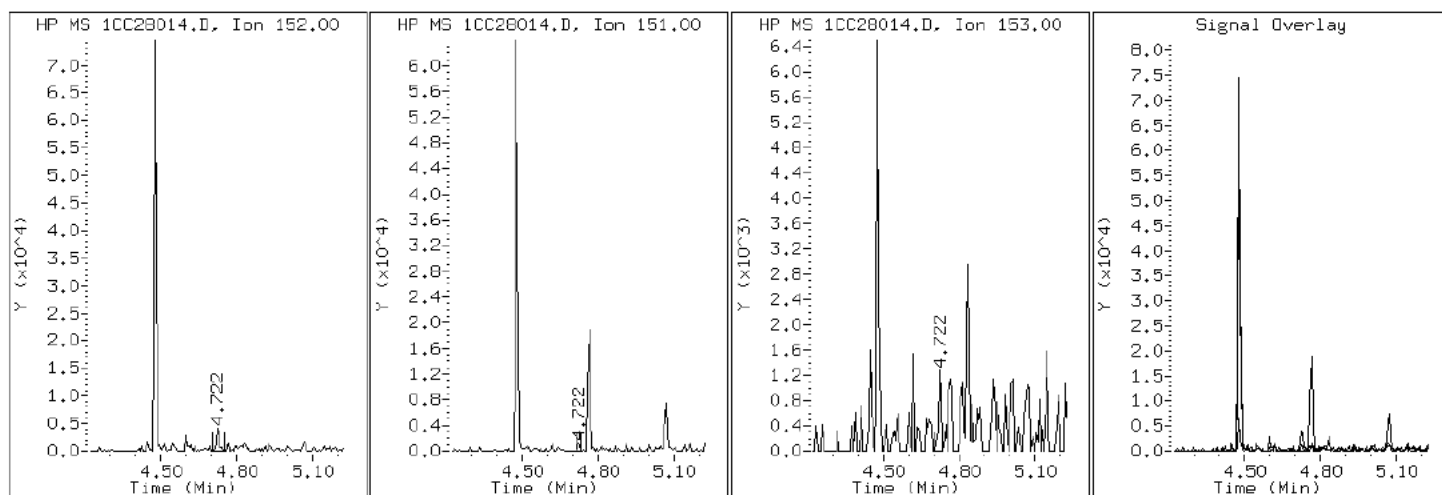
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

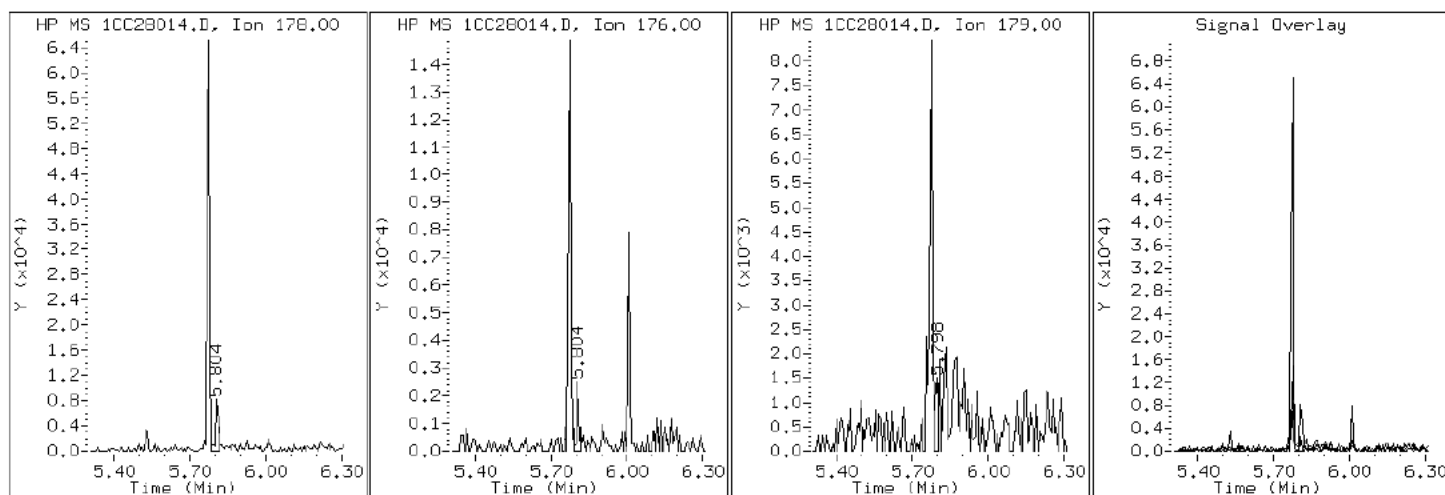
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

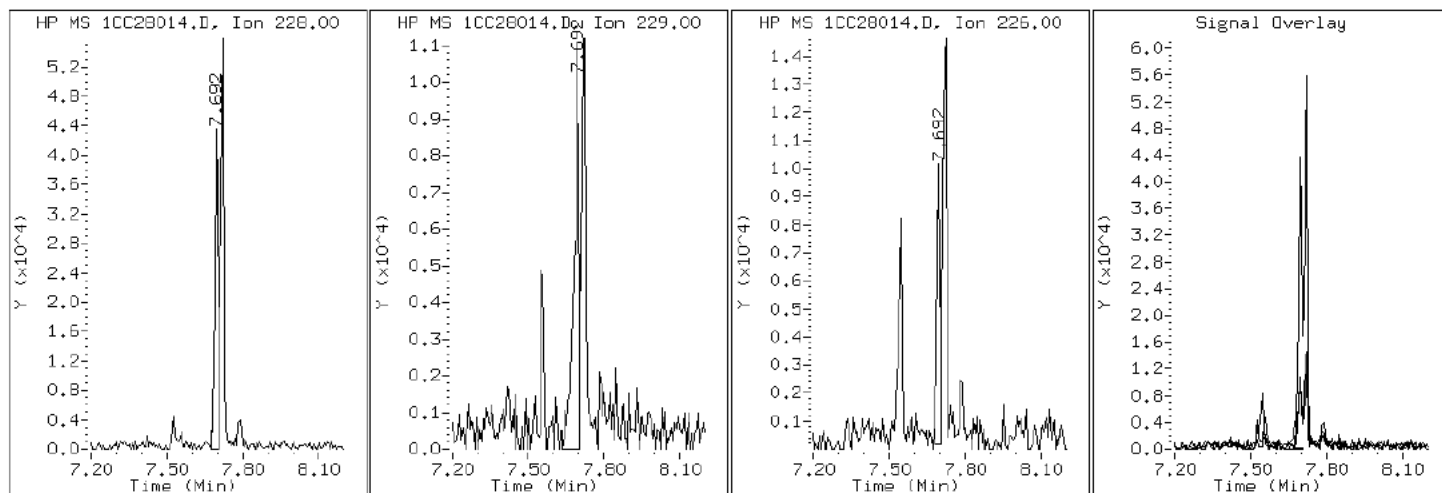
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

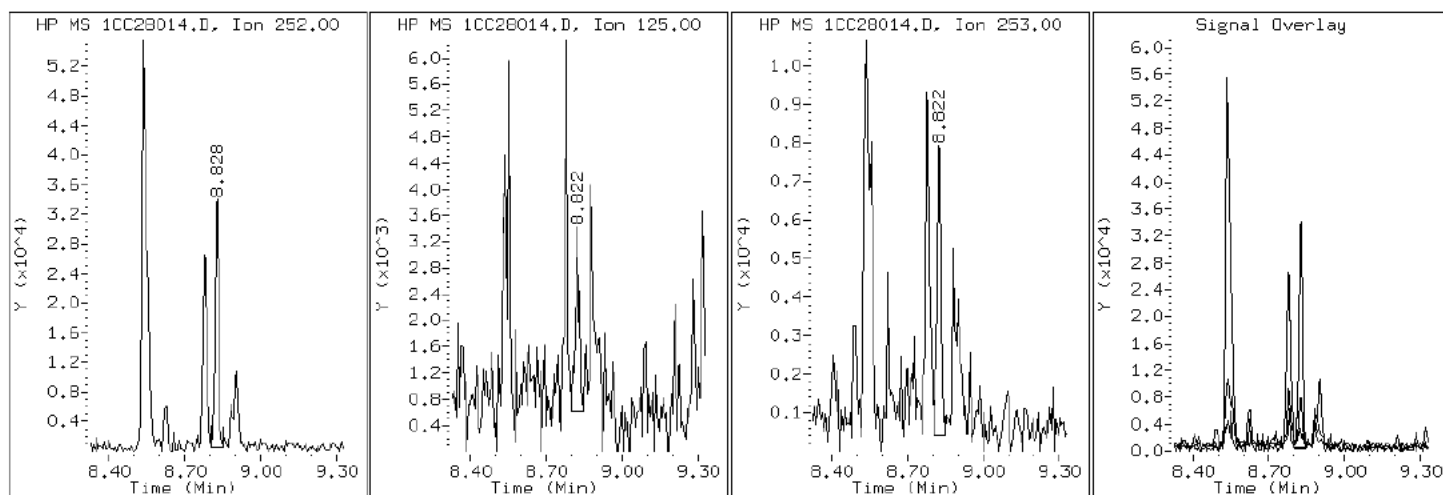
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

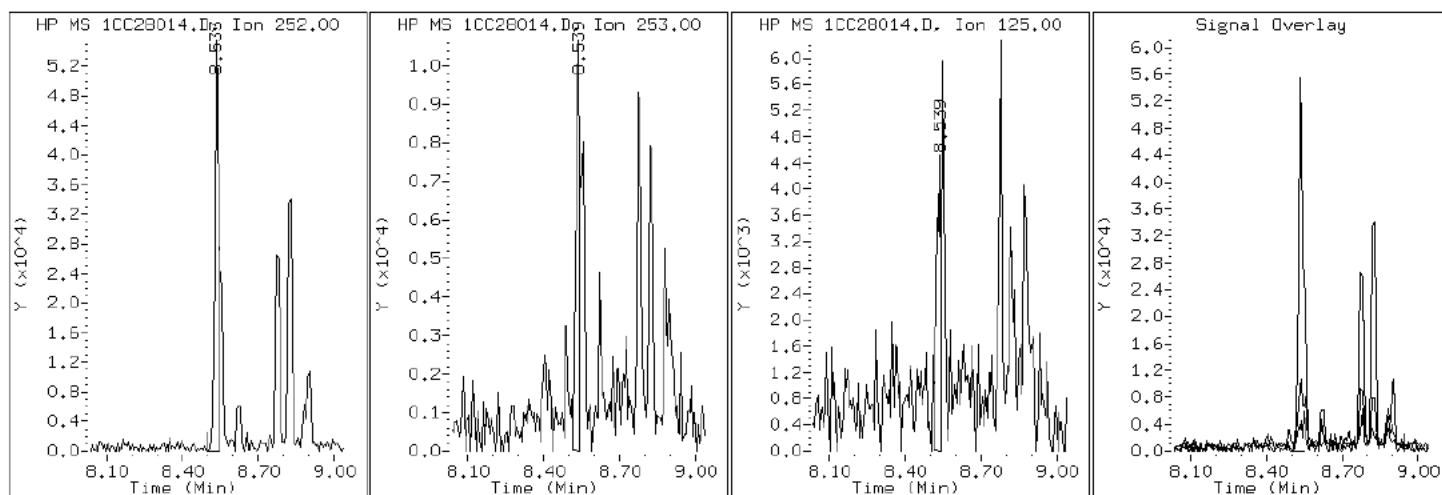
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

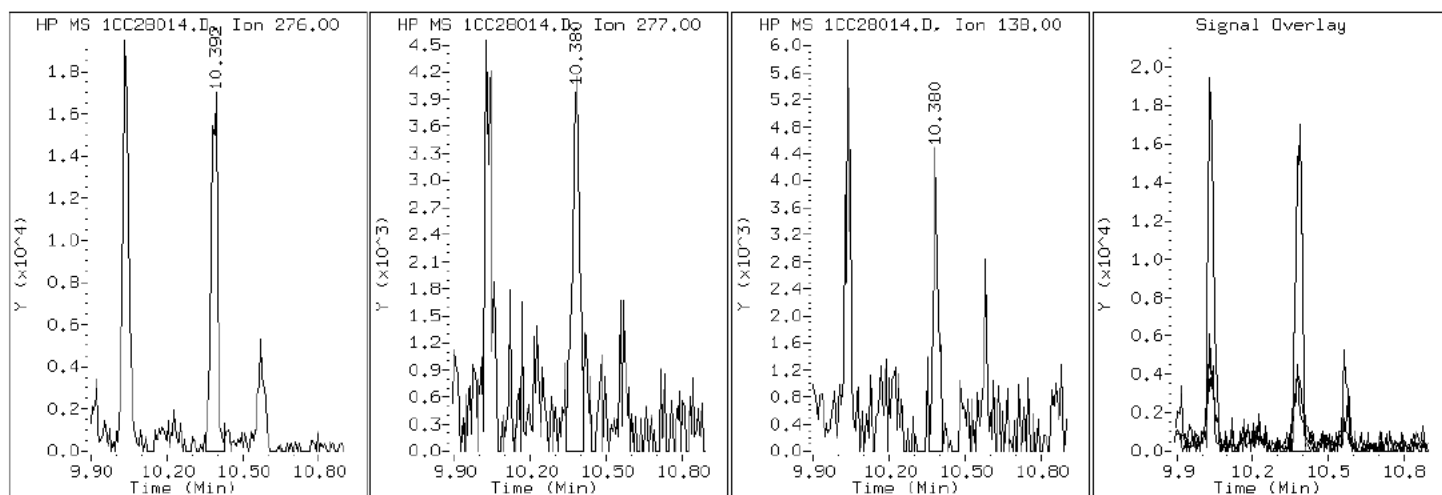
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

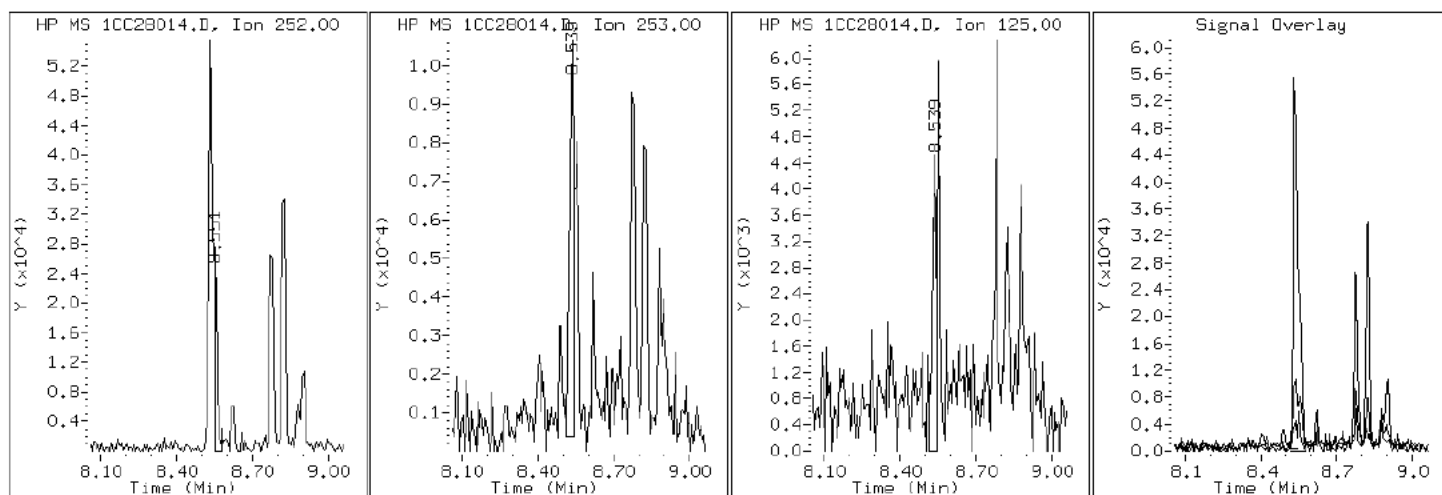
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

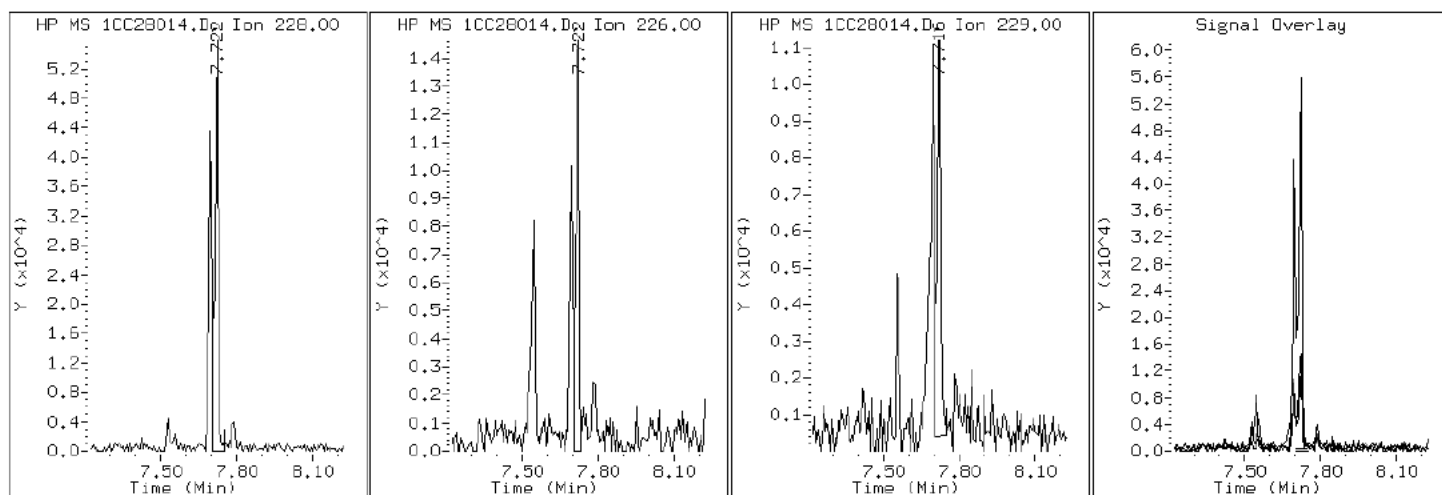
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

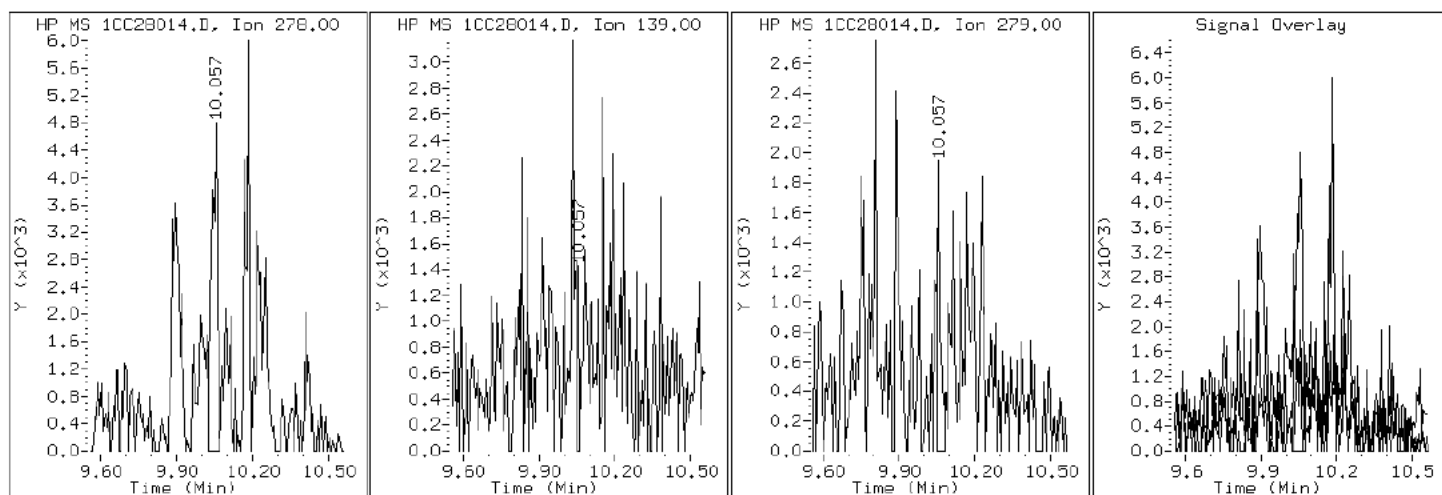
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

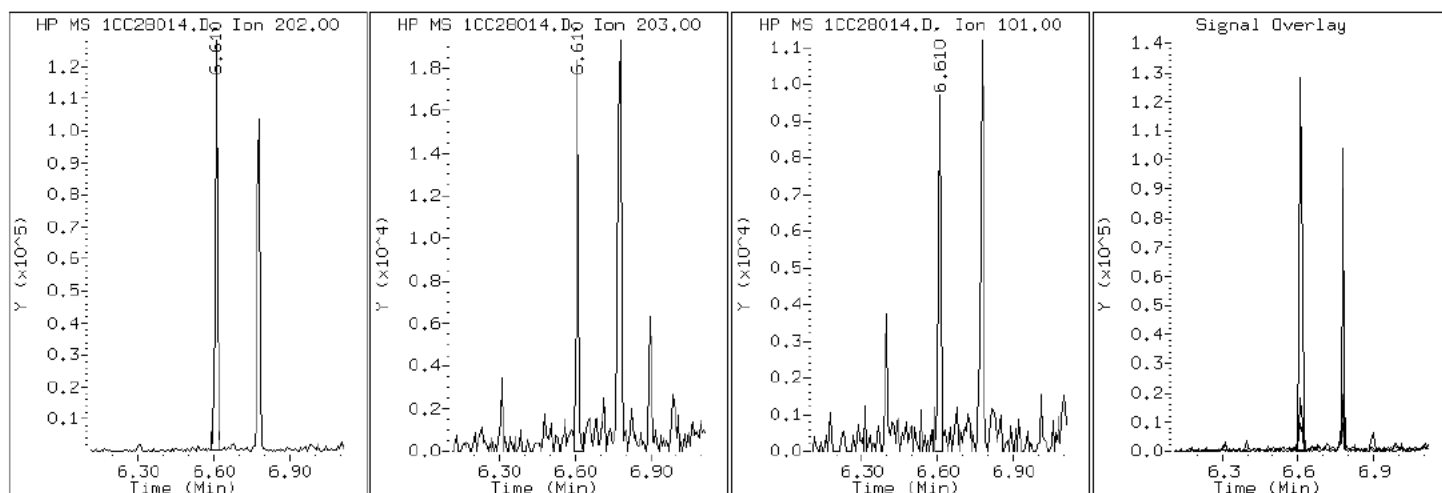
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

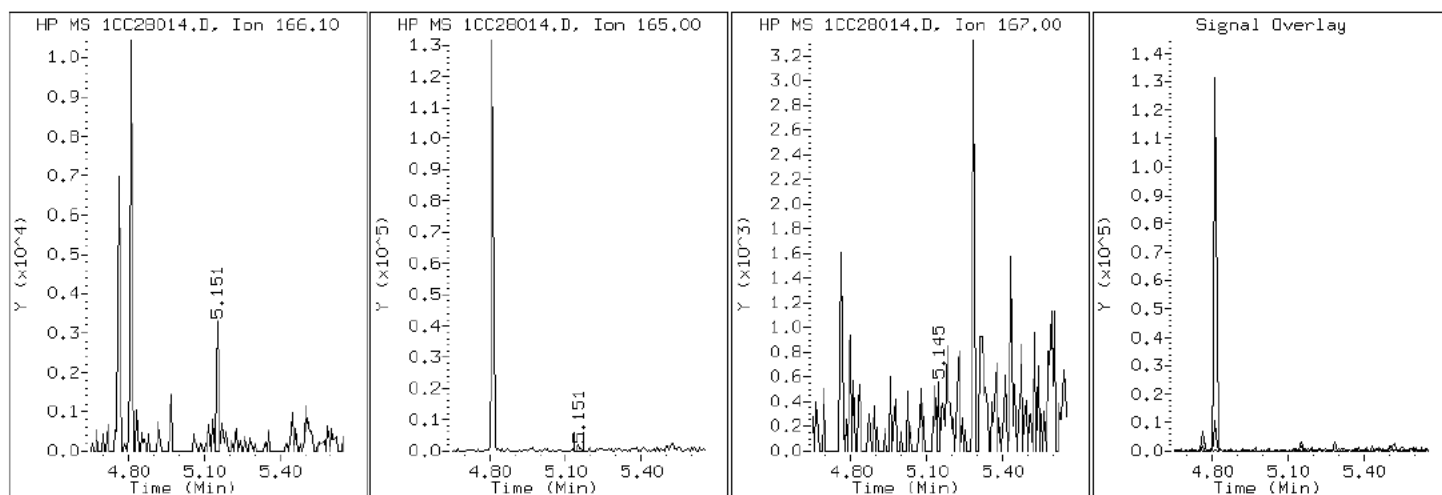
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

9 Fluorene





Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

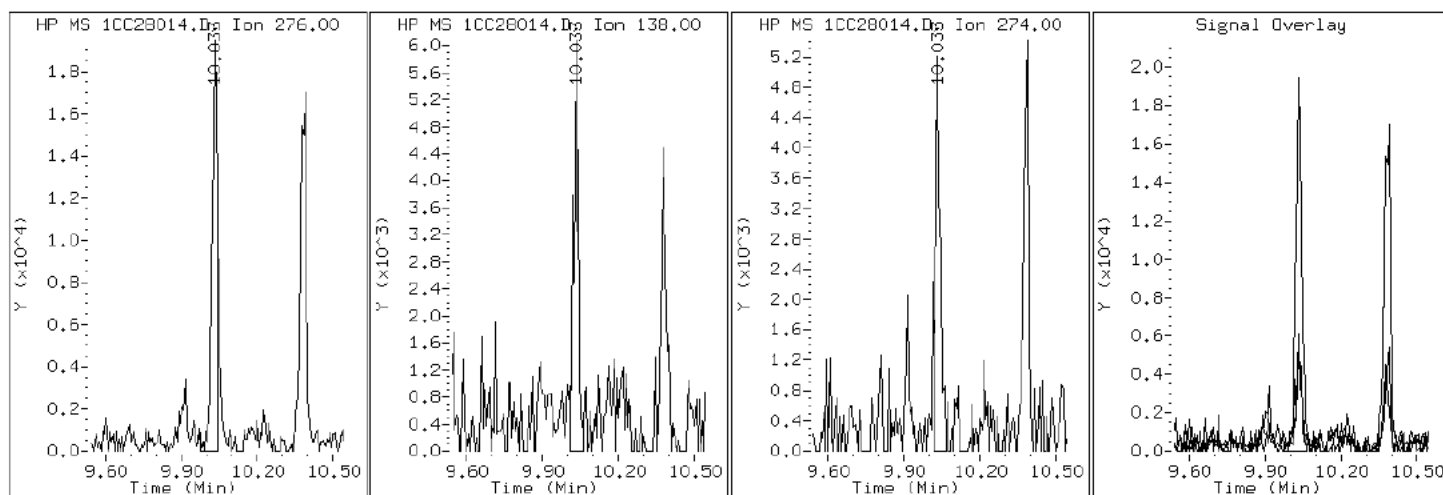
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

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



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

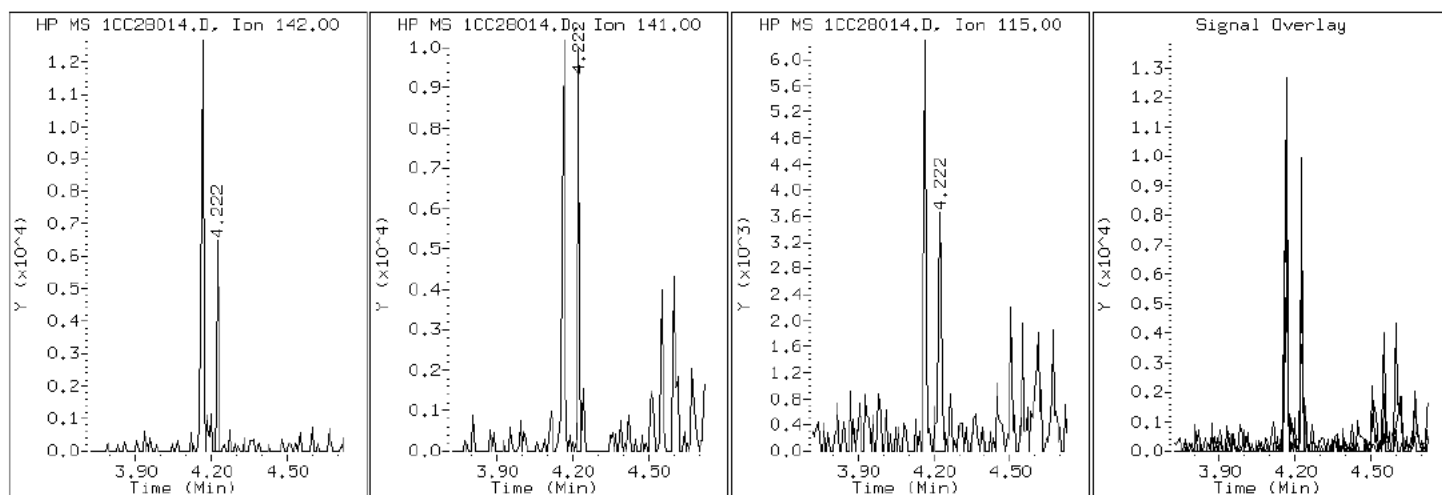
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

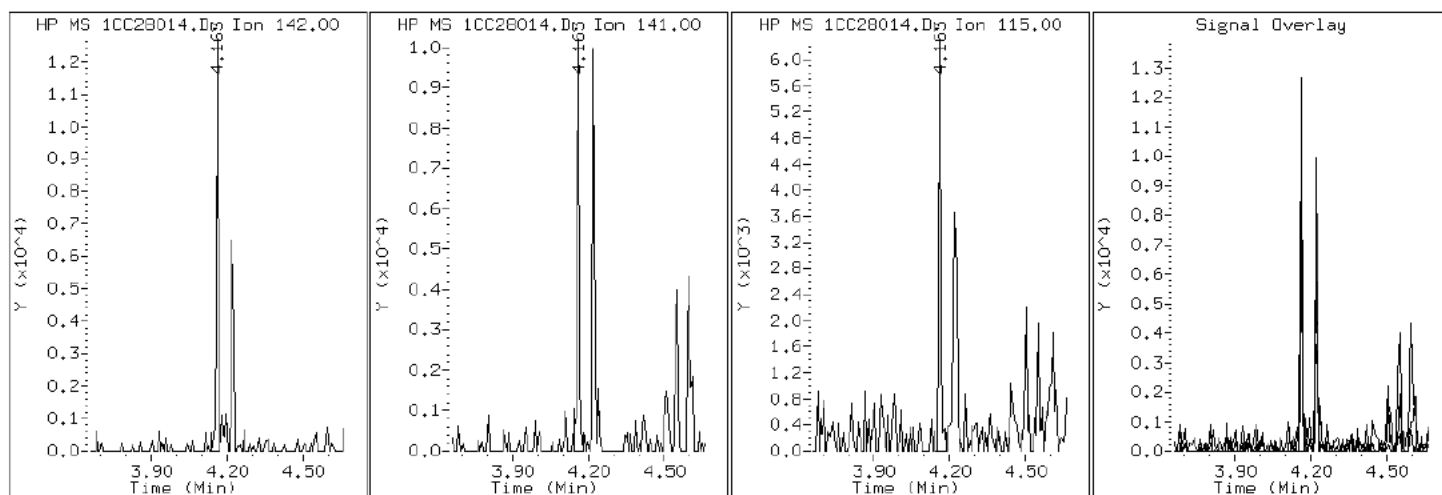
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

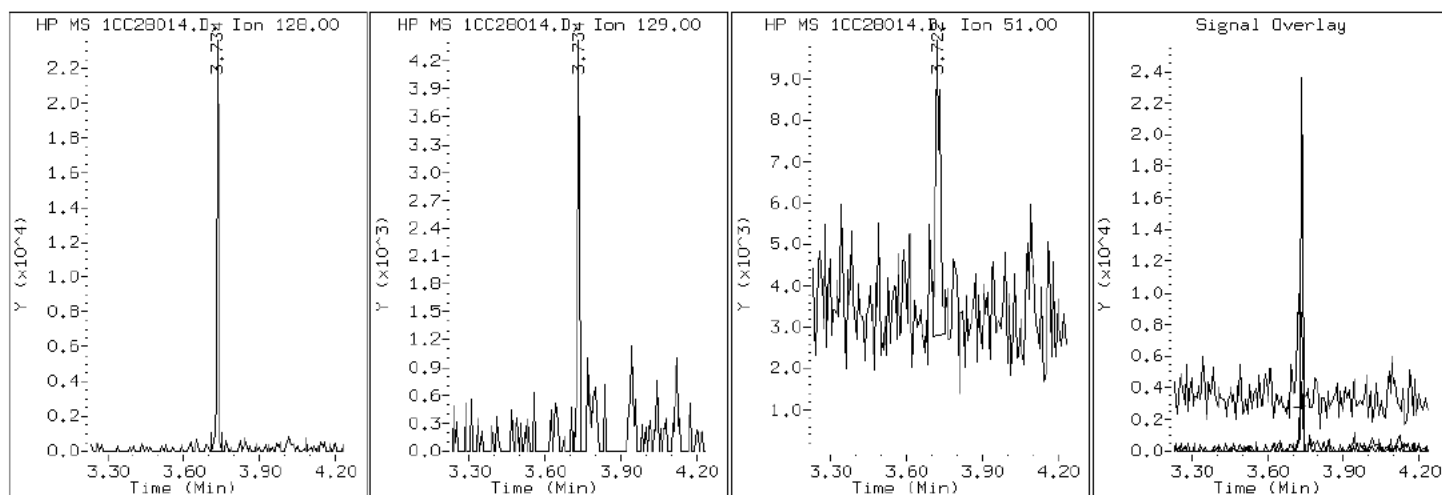
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

## 2 Naphthalene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

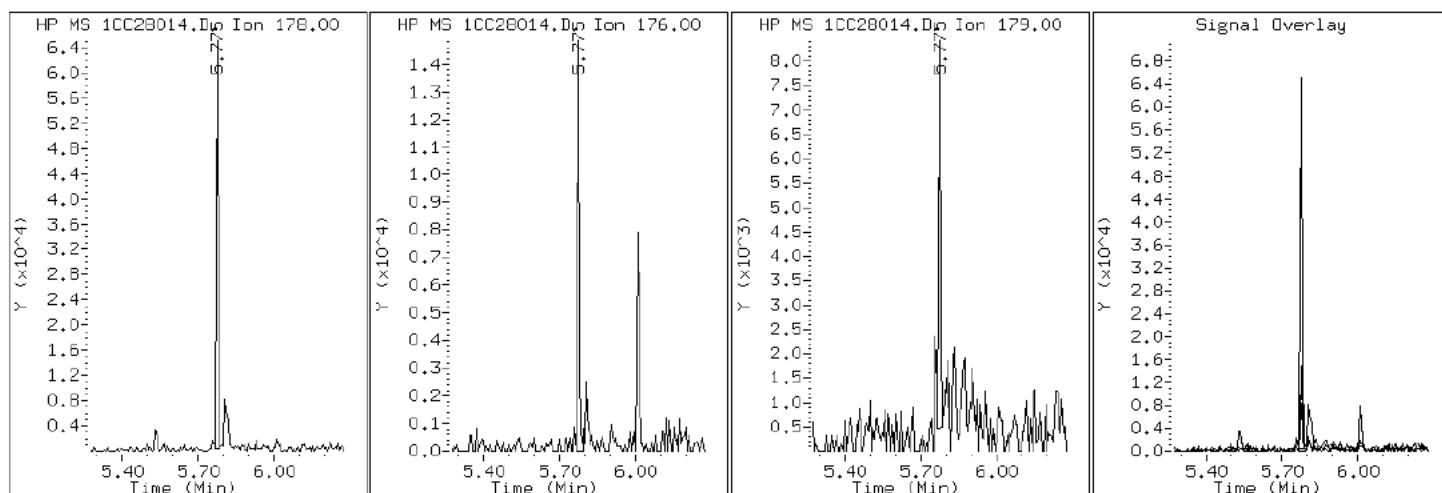
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28014.D

Date: 28-MAR-2013 15:23

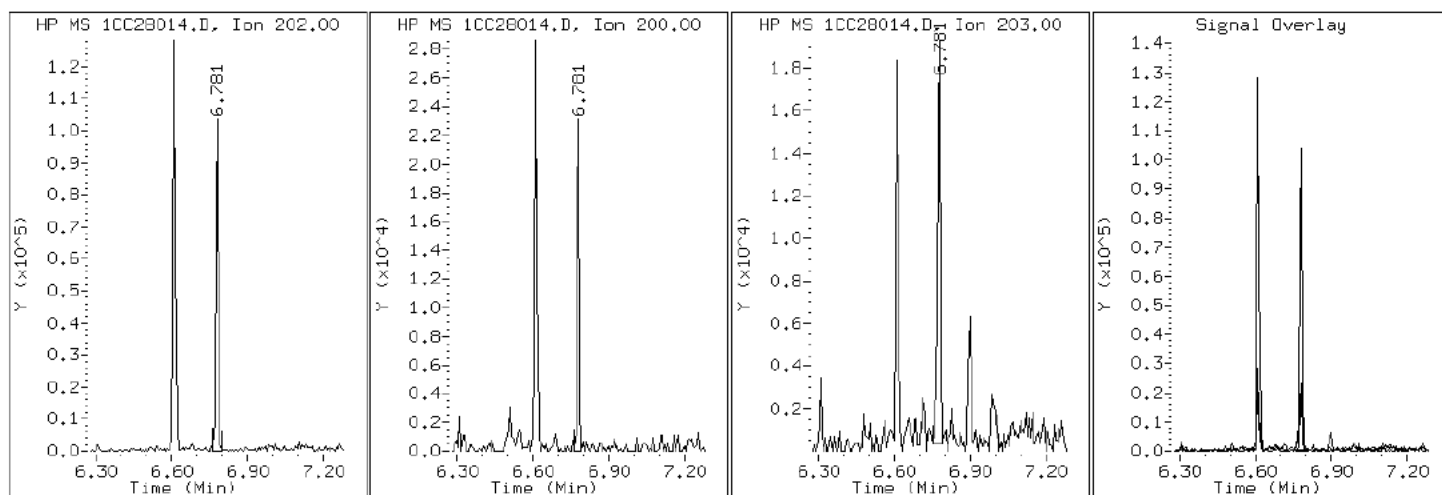
Client ID: CV1360L-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-a

Operator: SCC

16 Pyrene

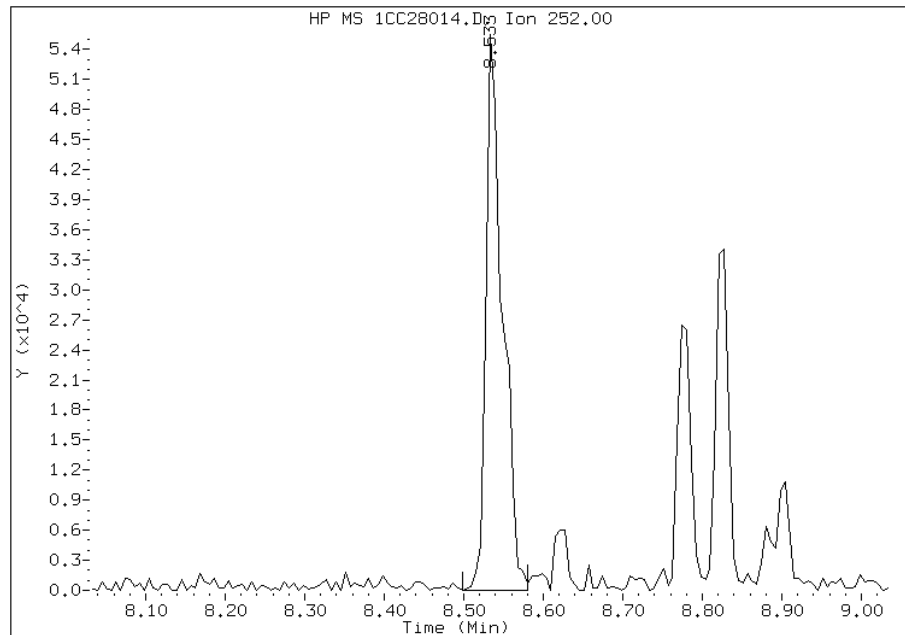


## Manual Integration Report

Data File: 1CC28014.D  
Inj. Date and Time: 28-MAR-2013 15:23  
Instrument ID: BSMC5973.i  
Client ID: CV1360L-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

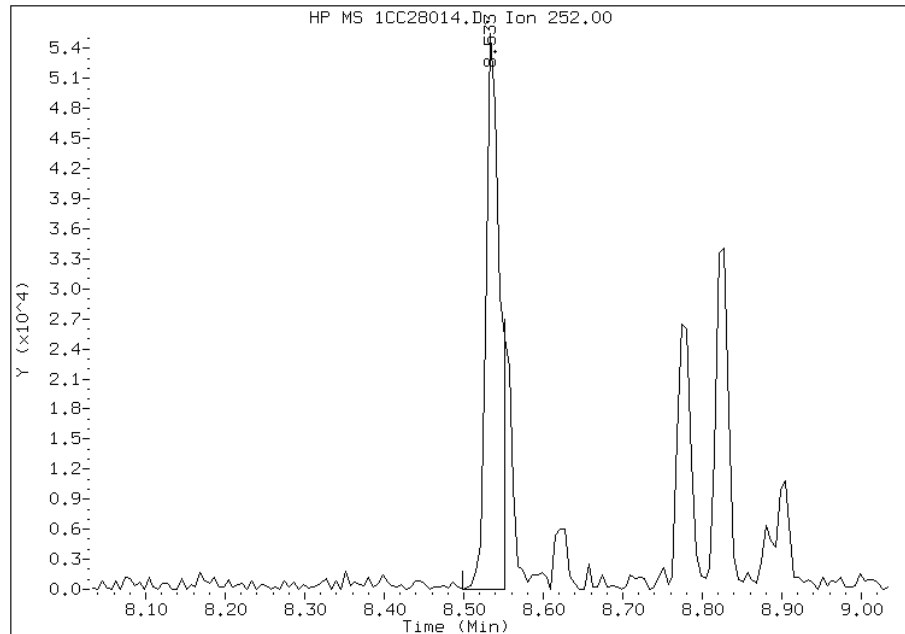
### Processing Integration Results

RT: 8.53  
Response: 80375  
Amount: 2  
Conc: 269



### Manual Integration Results

RT: 8.53  
Response: 67234  
Amount: 2  
Conc: 225



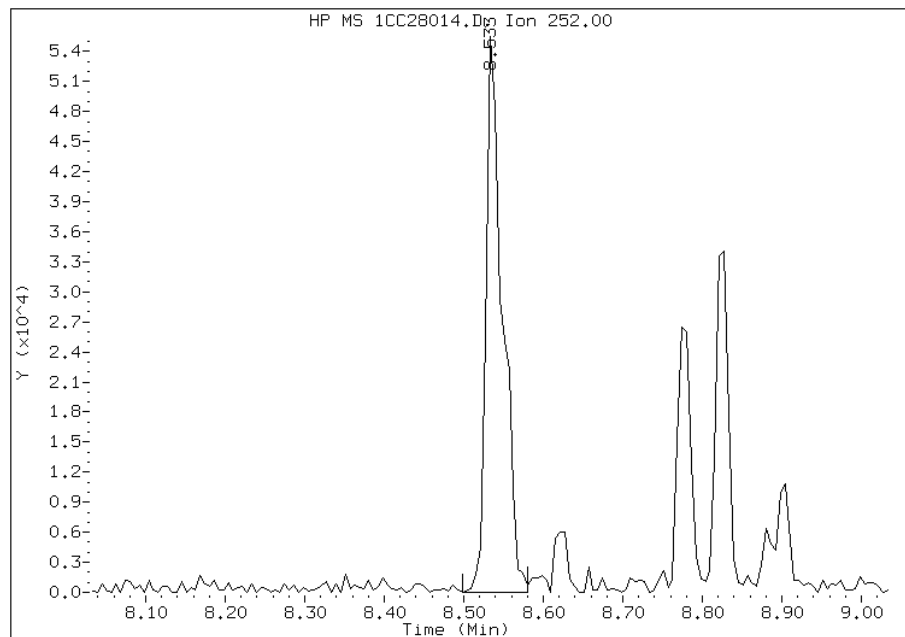
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 16:59  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1CC28014.D  
Inj. Date and Time: 28-MAR-2013 15:23  
Instrument ID: BSMC5973.i  
Client ID: CV1360L-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

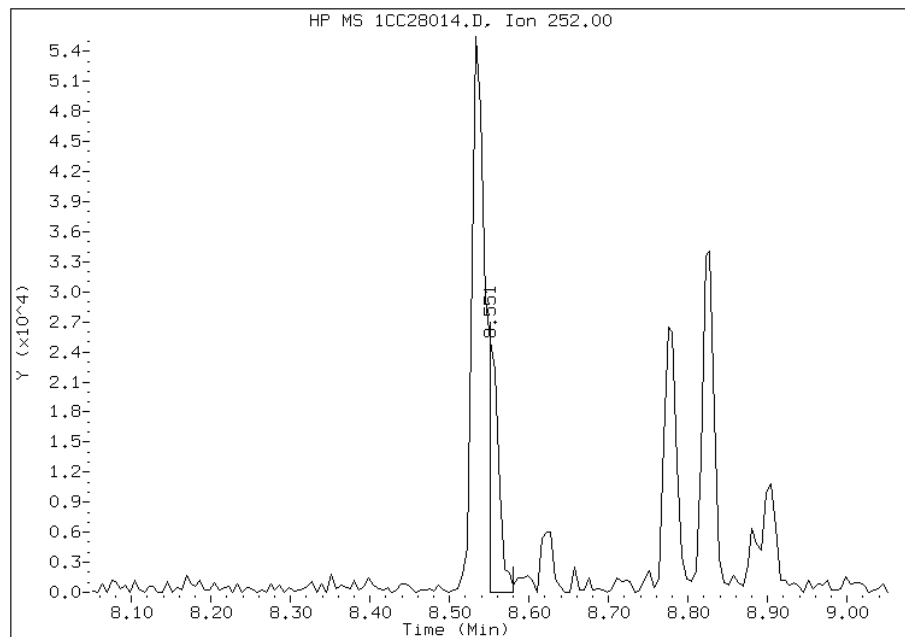
### Processing Integration Results

RT: 8.53  
Response: 80375  
Amount: 2  
Conc: 263



### Manual Integration Results

RT: 8.55  
Response: 21961  
Amount: 1  
Conc: 72



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:00  
Manual Integration Reason: Baseline Event

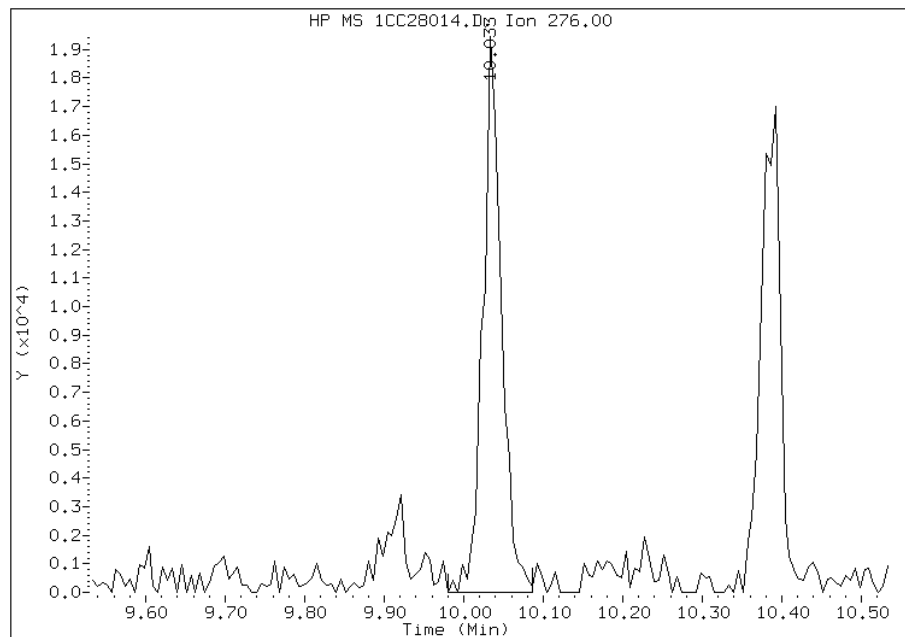


## Manual Integration Report

Data File: 1CC28014.D  
Inj. Date and Time: 28-MAR-2013 15:23  
Instrument ID: BSMC5973.i  
Client ID: CV1360L-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

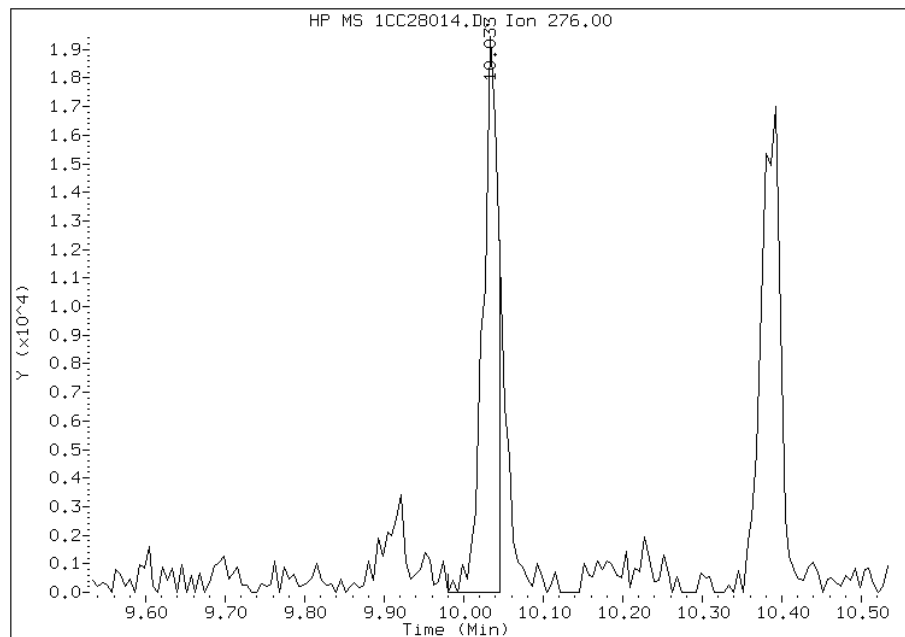
### Processing Integration Results

RT: 10.03  
Response: 31488  
Amount: 1  
Conc: 116



### Manual Integration Results

RT: 10.03  
Response: 25985  
Amount: 1  
Conc: 95



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:00  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360M-CS</u>	Lab Sample ID: <u>680-88527-22</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DC26029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 13:54</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>03/26/2013 21:32</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>34.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	7.6	J	61	7.6
120-12-7	Anthracene	13		13	6.4
56-55-3	Benzo[a]anthracene	57		12	6.0
50-32-8	Benzo[a]pyrene	51		16	7.9
205-99-2	Benzo[b]fluoranthene	79		19	9.3
191-24-2	Benzo[g,h,i]perylene	39		31	6.7
207-08-9	Benzo[k]fluoranthene	31		12	5.5
218-01-9	Chrysene	55		14	6.9
53-70-3	Dibenz(a,h)anthracene	11	J	31	6.3
206-44-0	Fluoranthene	87		31	6.1
86-73-7	Fluorene	31	U	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	37		31	11
90-12-0	1-Methylnaphthalene	17	J	61	6.7
91-57-6	2-Methylnaphthalene	25	J	61	11
91-20-3	Naphthalene	46	J	61	6.7
85-01-8	Phenanthrene	49		12	6.0
129-00-0	Pyrene	74		31	5.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26029.D  
 Lab Smp Id: 680-88527-A-22-A Client Smp ID: CV1360M-CS  
 Inj Date : 26-MAR-2013 21:32  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-A-22-A  
 Misc Info : 680-88527-A-22-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	34.895	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								( ug/l )	( ug/Kg )
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.125	6.126	(1.000)	2434723	40.0000			
* 6 Acenaphthene-d10	164	7.799	7.800	(1.000)	1495924	40.0000			
* 9 Phenanthrene-d10	188	9.062	9.063	(1.000)	2409770	40.0000			
\$ 13 o-Terphenyl	230	9.368	9.375	(1.034)	303071	8.13292			830
* 17 Chrysene-d12	240	11.401	11.402	(1.000)	2334503	40.0000			
* 22 Perylene-d12	264	13.263	13.270	(1.000)	2446676	40.0000			
2 Naphthalene	128	6.142	6.149	(1.003)	29466	0.45241			46
3 2-Methylnaphthalene	142	6.847	6.848	(1.118)	10033	0.24182			25
4 1-Methylnaphthalene	142	6.941	6.942	(1.133)	6440	0.16576			17
5 Acenaphthylene	152	7.670	7.677	(0.983)	4914	0.07451			7.6
8 Fluorene	166	8.269	8.270	(1.060)	2294	0.04883			5.0
10 Phenanthrene	178	9.080	9.087	(1.002)	33101	0.48389			49
11 Anthracene	178	9.121	9.128	(1.006)	8943	0.13067			13
12 Carbazole	167	9.262	9.269	(1.022)	7433	0.12149			12

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l )	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.067	10.068	(1.111)	61343	0.85931	87
15 Pyrene	202	10.255	10.256	(0.900)	52410	0.72375	74
16 Benzo(a)anthracene	228	11.383	11.384	(0.998)	35783	0.55987	57
18 Chrysene	228	11.418	11.431	(1.002)	35599	0.53951	55
19 Benzo(b)fluoranthene	252	12.699	12.712	(0.957)	49142	0.78032	79
20 Benzo(k)fluoranthene	252	12.734	12.753	(0.960)	20051	0.30408	31
21 Benzo(a)pyrene	252	13.157	13.170	(0.992)	31192	0.50051	51
23 Indeno(1,2,3-cd)pyrene	276	14.861	14.886	(1.120)	23927	0.35976	37(M)
24 Dibenzo(a,h)anthracene	278	14.891	14.915	(1.123)	6758	0.11003	11
25 Benzo(g,h,i)perylene	276	15.308	15.344	(1.154)	24356	0.38410	39

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26029.D

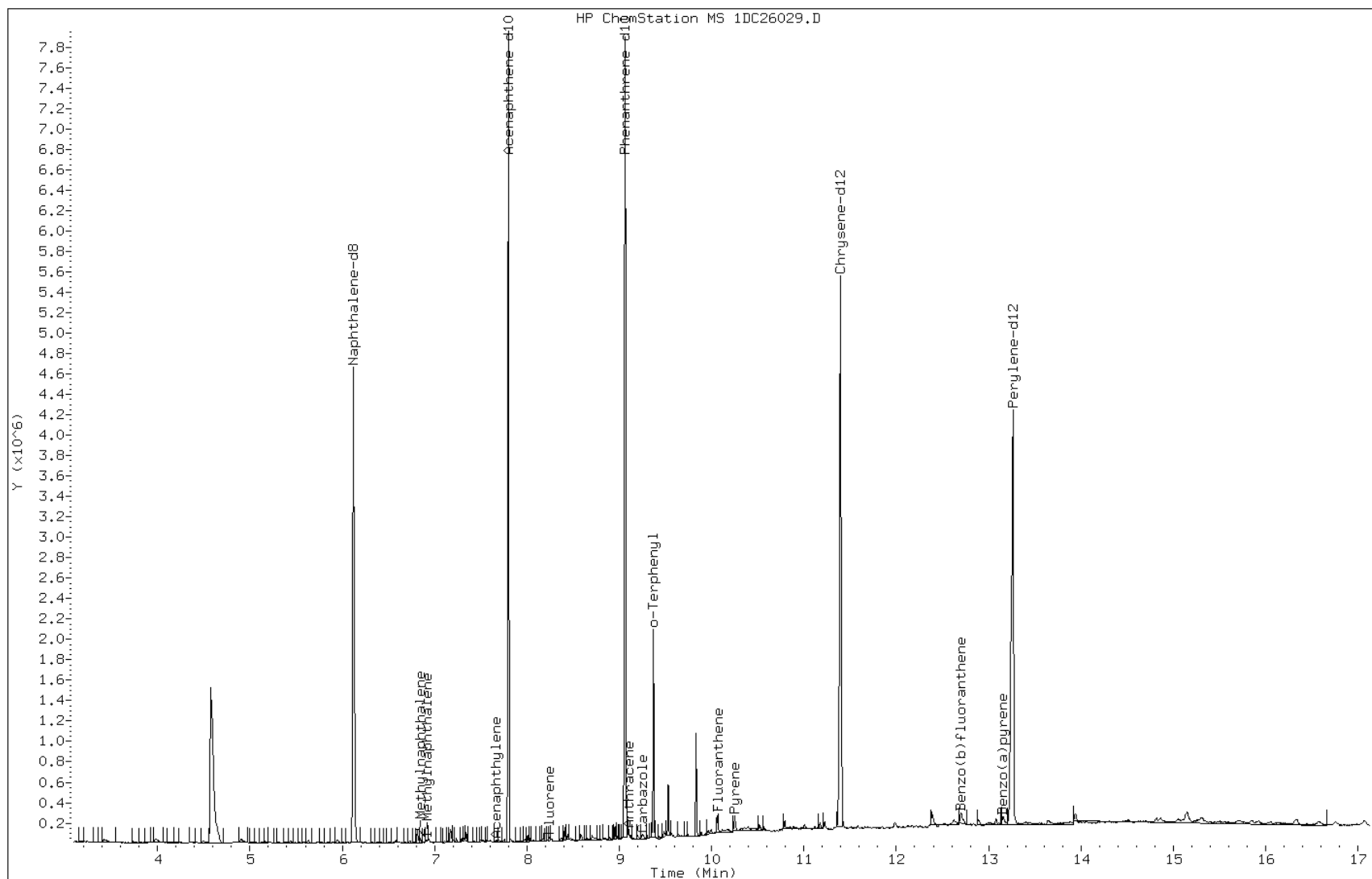
Date: 26-MAR-2013 21:32

Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

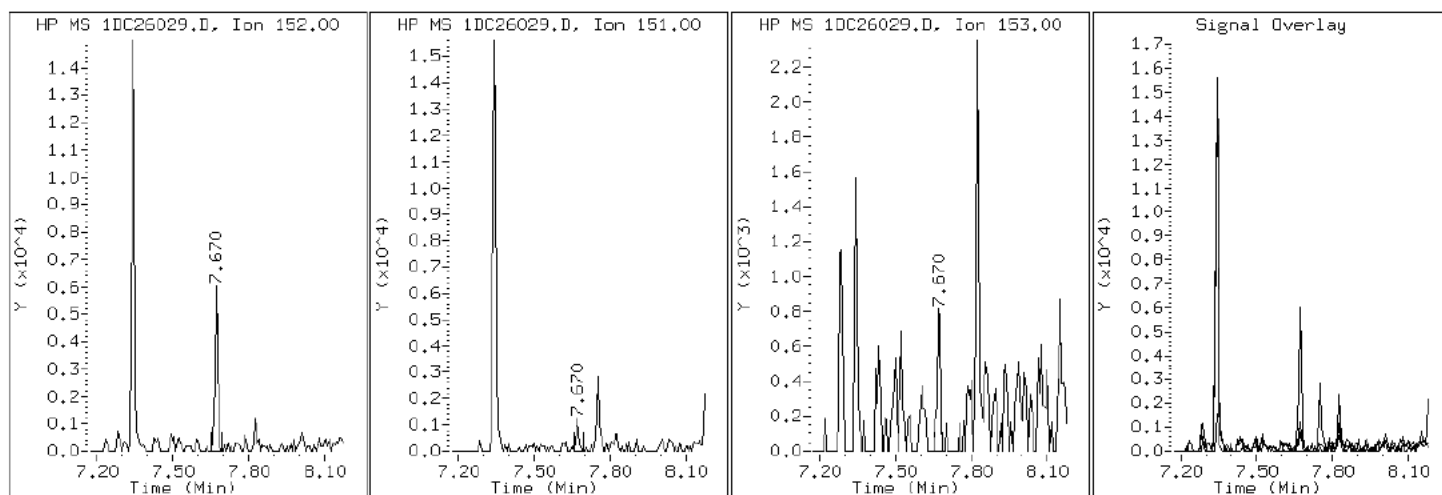
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

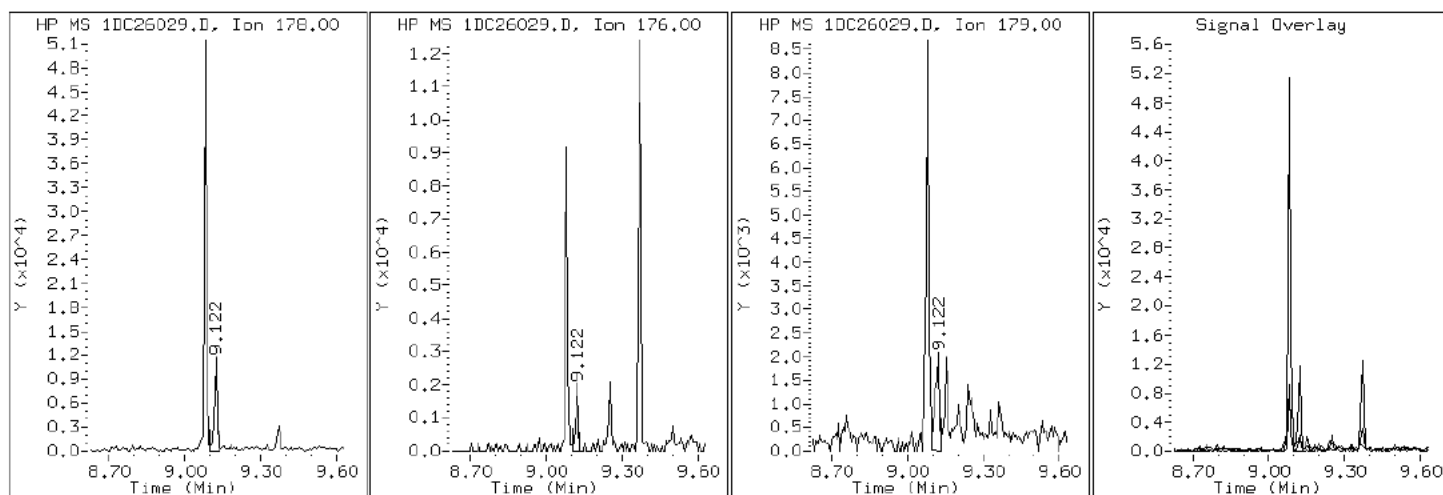
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

11 Anthracene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

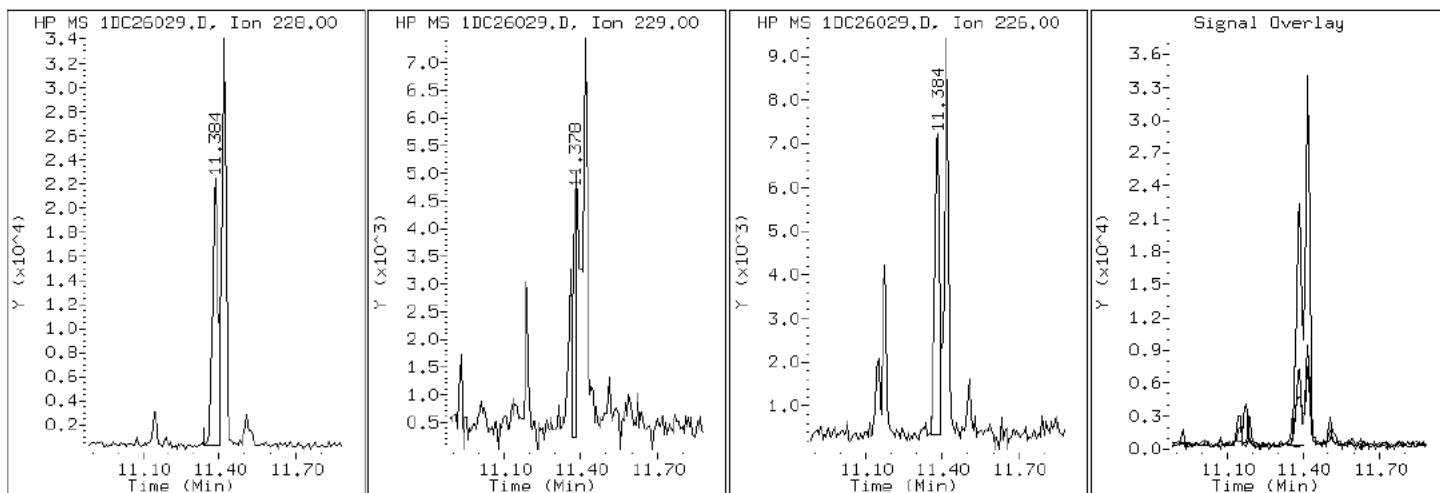
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

16 Benzo(a)anthracene





Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

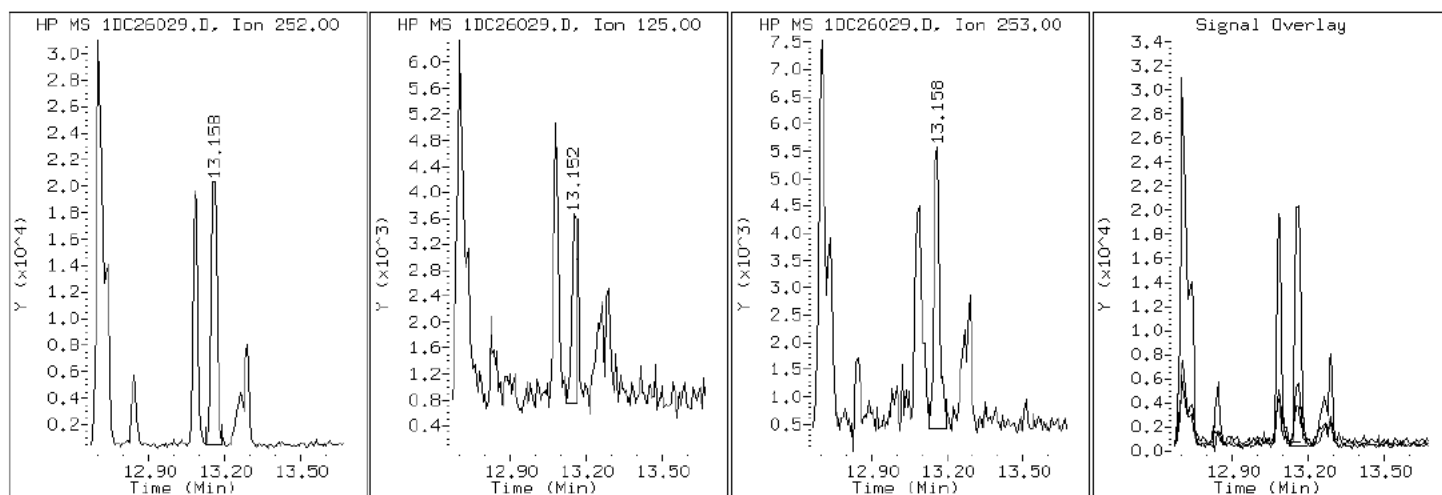
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

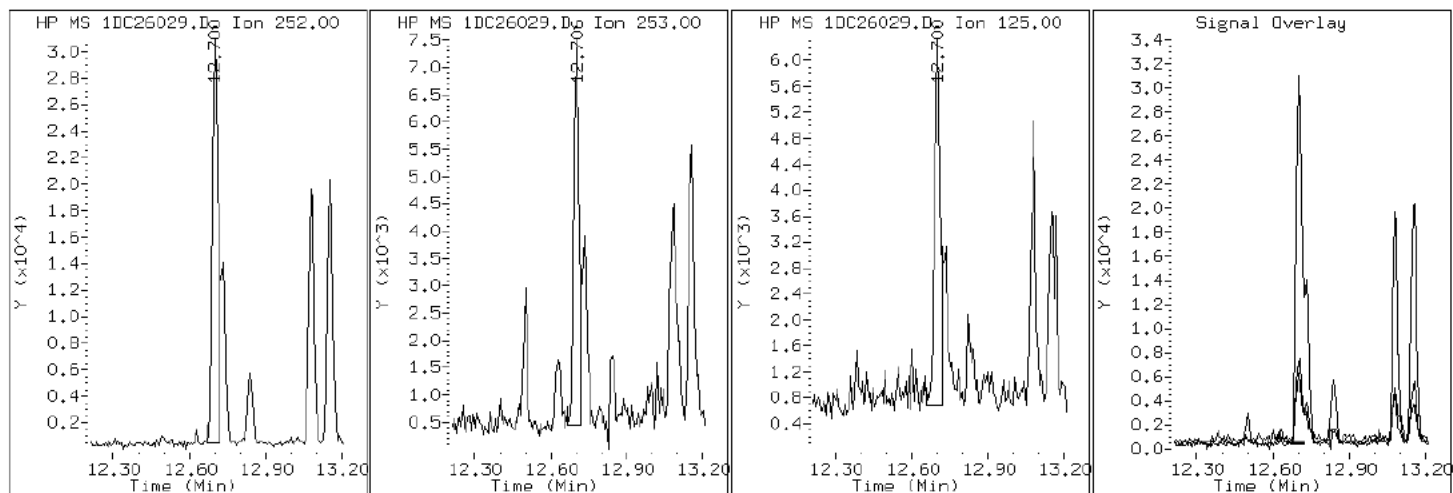
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

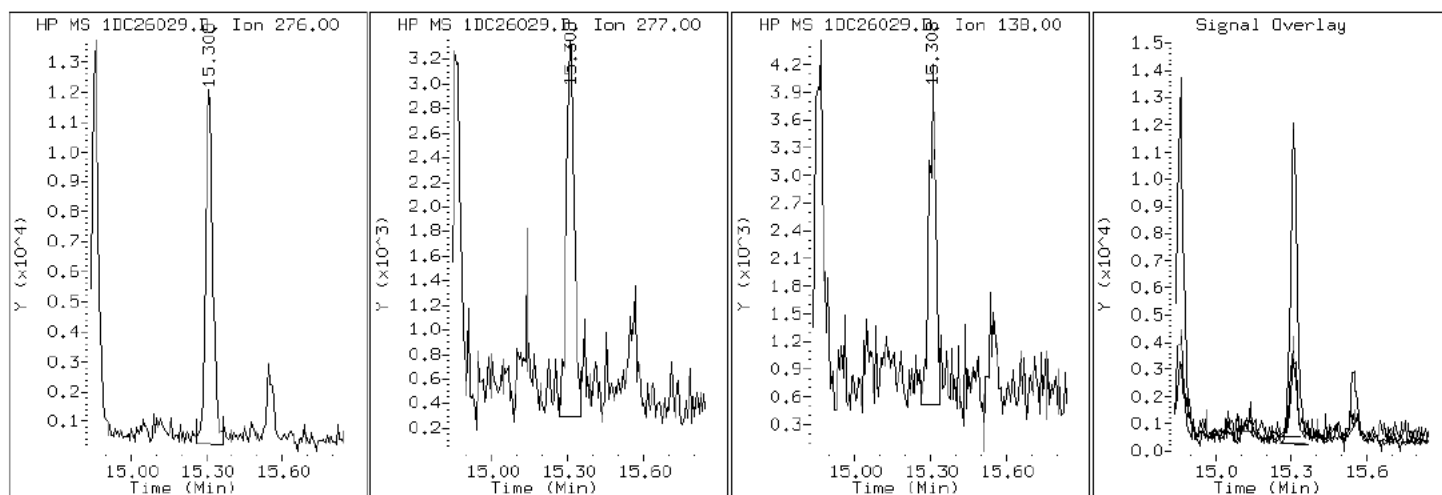
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

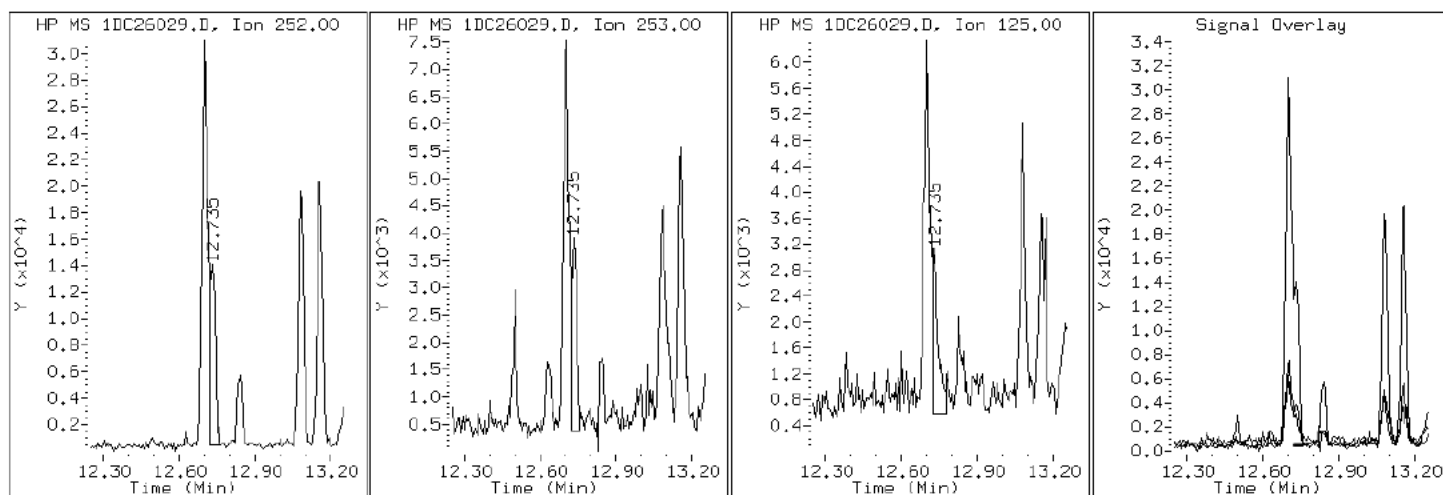
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

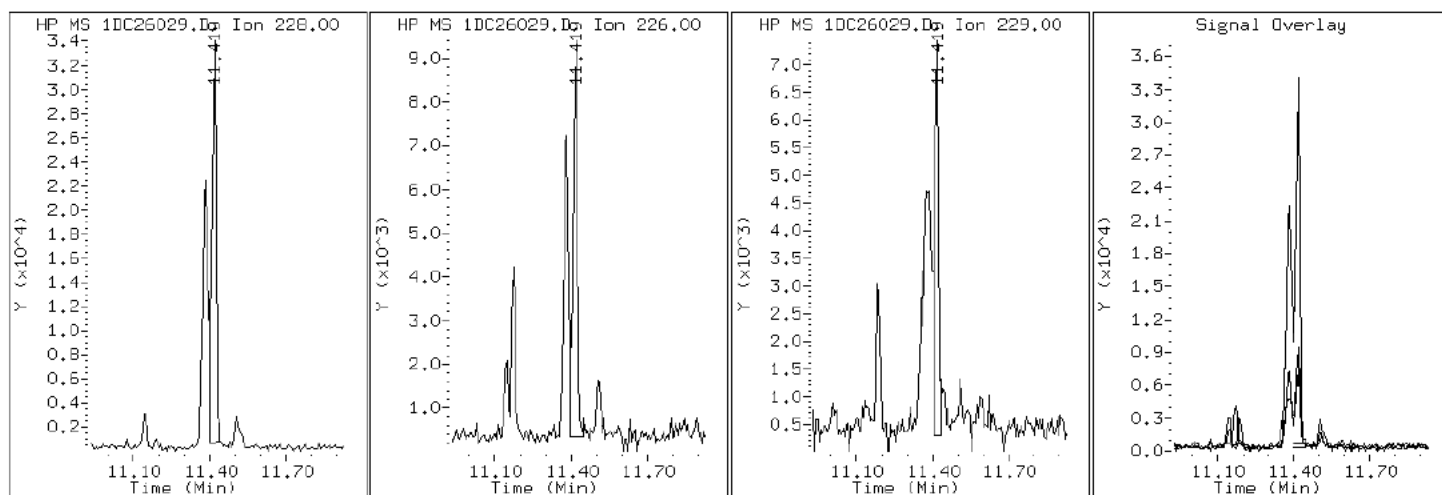
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

18 Chrysene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

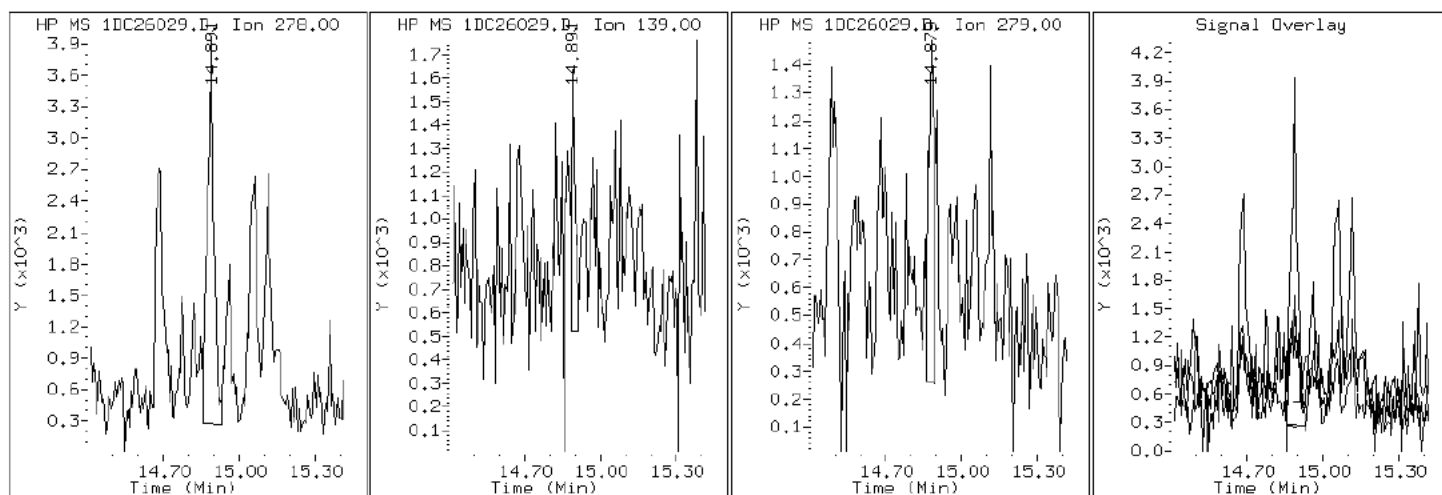
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

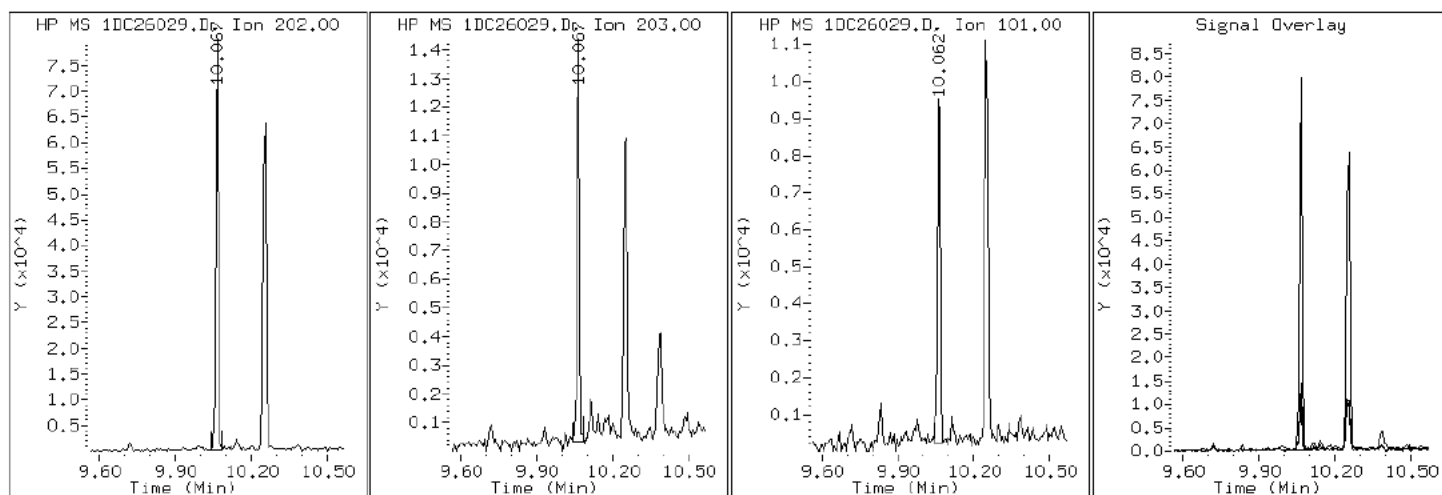
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

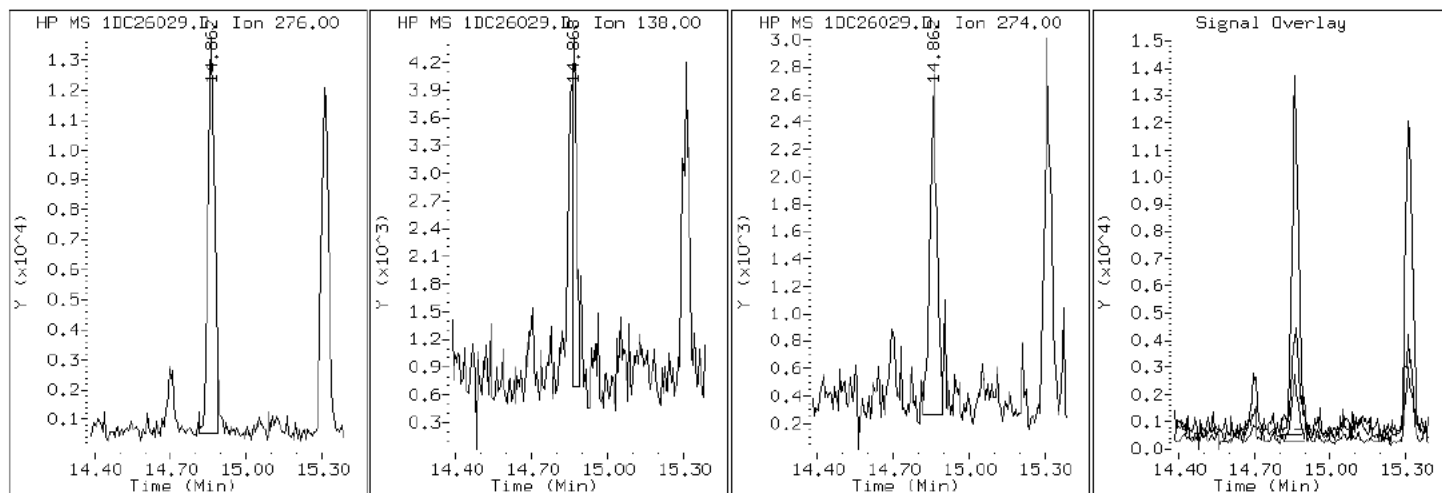
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

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





Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

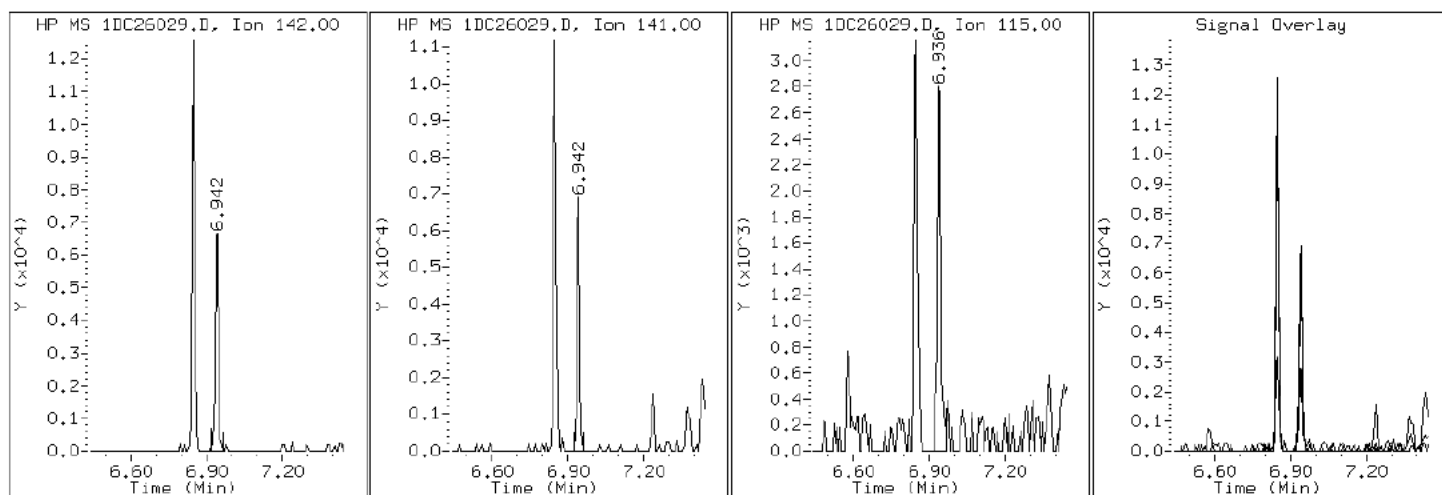
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

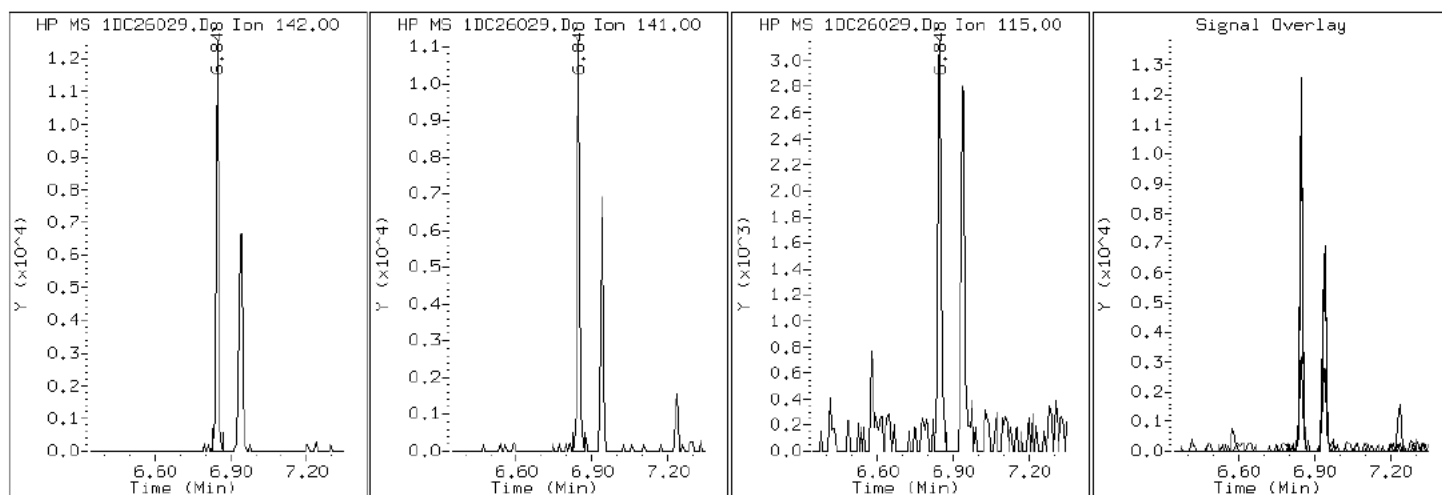
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

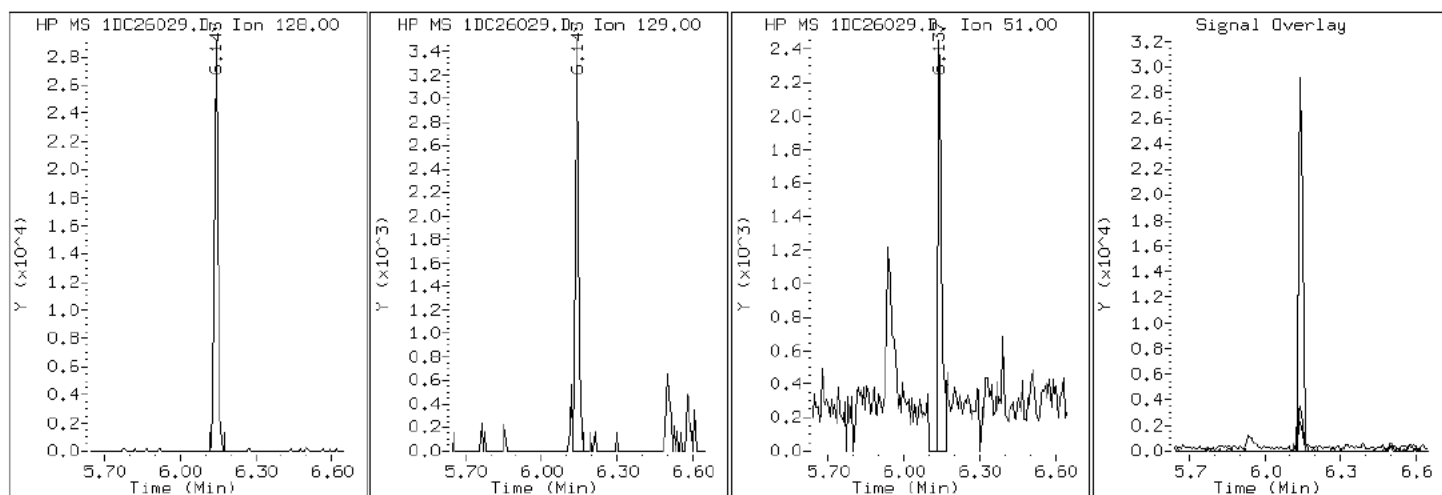
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

## 2 Naphthalene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

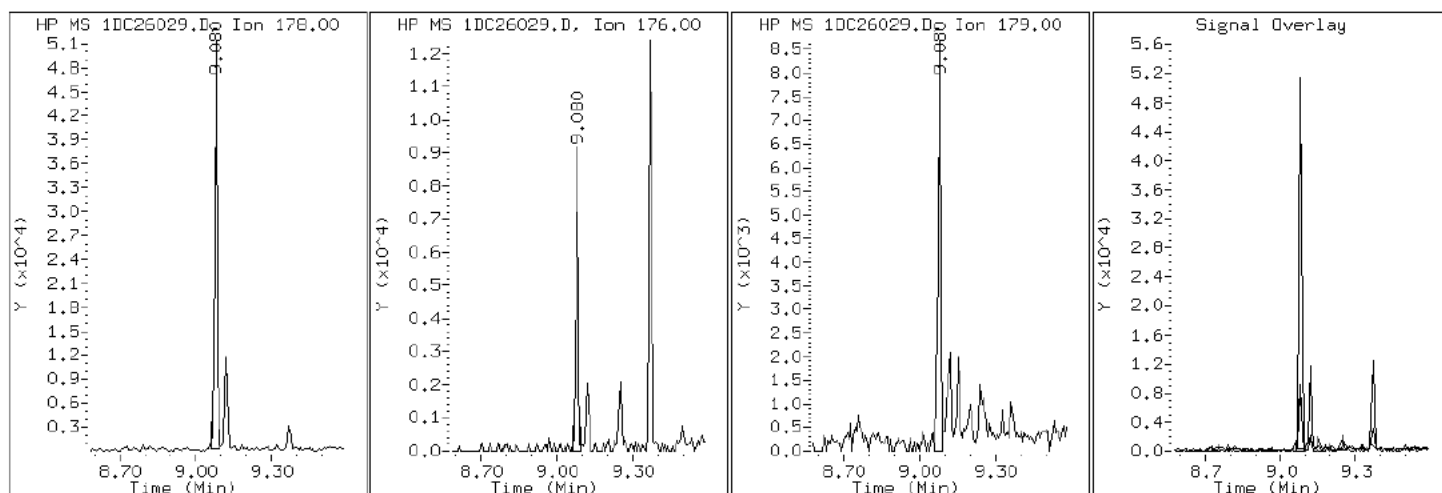
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26029.D

Date: 26-MAR-2013 21:32

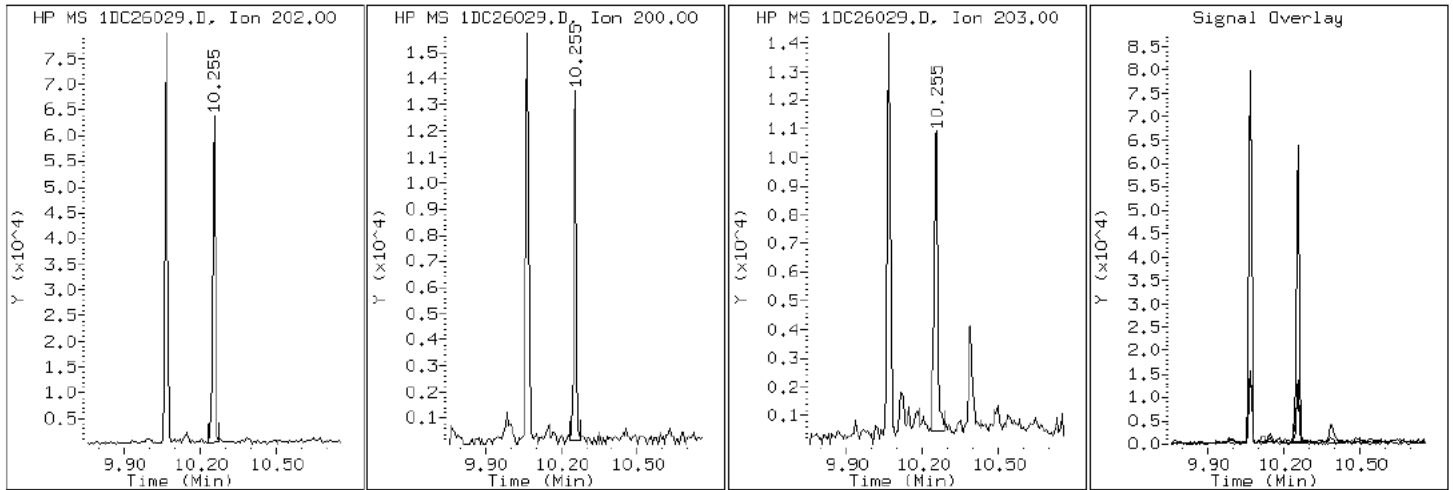
Client ID: CV1360M-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-22-A

Operator: SCC

15 Pyrene

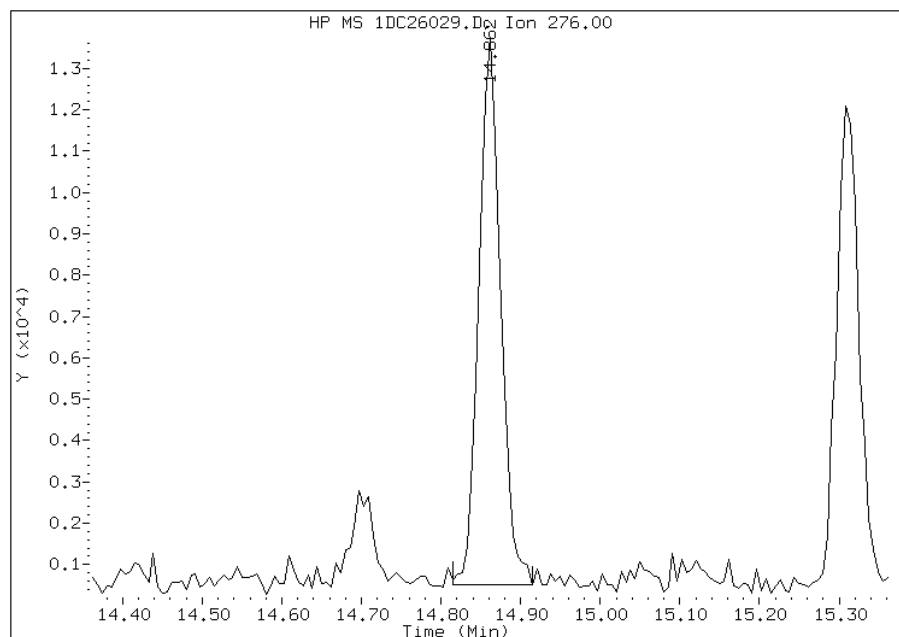


## Manual Integration Report

Data File: 1DC26029.D  
Inj. Date and Time: 26-MAR-2013 21:32  
Instrument ID: BSMSD.i  
Client ID: CV1360M-CS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

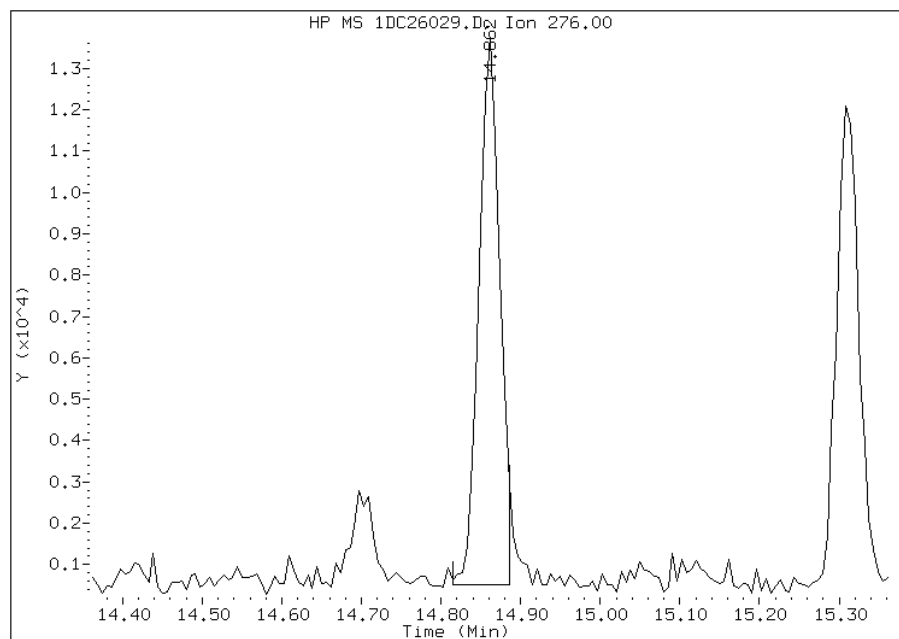
### Processing Integration Results

RT: 14.86  
Response: 24928  
Amount: 0  
Conc: 38



### Manual Integration Results

RT: 14.86  
Response: 23927  
Amount: 0  
Conc: 37



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360N-CS</u>	Lab Sample ID: <u>680-88527-23</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DC26030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.07(g)</u>	Date Analyzed: <u>03/26/2013 21:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>21.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	47	J	200	25
120-12-7	Anthracene	95		43	21
56-55-3	Benzo[a]anthracene	450		41	20
50-32-8	Benzo[a]pyrene	430		53	26
205-99-2	Benzo[b]fluoranthene	780		62	31
191-24-2	Benzo[g,h,i]perylene	320		100	22
207-08-9	Benzo[k]fluoranthene	240		41	18
218-01-9	Chrysene	510		46	23
53-70-3	Dibenz(a,h)anthracene	100		100	21
206-44-0	Fluoranthene	760		100	20
86-73-7	Fluorene	27	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	300		100	36
90-12-0	1-Methylnaphthalene	94	J	200	22
91-57-6	2-Methylnaphthalene	130	J	200	36
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	400		41	20
129-00-0	Pyrene	640		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26030.D  
 Lab Smp Id: 680-88527-A-23-A Client Smp ID: CV1360N-CS  
 Inj Date : 26-MAR-2013 21:54  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-A-23-A  
 Misc Info : 680-88527-A-23-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 30  
 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	15.070	Weight Extracted
M	21.626	% 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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.122	6.126	(1.000)	2370520	40.0000		
* 6 Acenaphthene-d10	164	7.797	7.800	(1.000)	1491911	40.0000		
* 9 Phenanthrene-d10	188	9.060	9.063	(1.000)	2416757	40.0000		
\$ 13 o-Terphenyl	230	9.366	9.375	(1.034)	83502	2.23430		760
* 17 Chrysene-d12	240	11.399	11.402	(1.000)	2384931	40.0000		
* 22 Perylene-d12	264	13.267	13.270	(1.000)	2560265	40.0000		
2 Naphthalene	128	6.146	6.149	(1.004)	25650	0.40449		140
3 2-Methylnaphthalene	142	6.845	6.848	(1.118)	15440	0.38223		130
4 1-Methylnaphthalene	142	6.939	6.942	(1.133)	10467	0.27671		94
5 Acenaphthylene	152	7.668	7.677	(0.983)	9140	0.13896		47
8 Fluorene	166	8.267	8.270	(1.060)	3755	0.08014		27
10 Phenanthrene	178	9.078	9.087	(1.002)	80415	1.17217		400
11 Anthracene	178	9.119	9.128	(1.006)	19209	0.27985		95
12 Carbazole	167	9.260	9.269	(1.022)	11334	0.18471		62



Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.065	10.068	(1.111)	161569	2.25677	760
15 Pyrene	202	10.253	10.256	(0.899)	139058	1.87971	640
16 Benzo(a)anthracene	228	11.381	11.384	(0.998)	87424	1.33893	450
18 Chrysene	228	11.422	11.431	(1.002)	102371	1.51865	510
19 Benzo(b)fluoranthene	252	12.703	12.712	(0.957)	151131	2.29331	780
20 Benzo(k)fluoranthene	252	12.732	12.753	(0.960)	48763	0.70671	240
21 Benzo(a)pyrene	252	13.155	13.170	(0.992)	83109	1.27440	430
23 Indeno(1,2,3-cd)pyrene	276	14.865	14.886	(1.120)	61333	0.88128	300(M)
24 Dibenzo(a,h)anthracene	278	14.889	14.915	(1.122)	19871	0.30917	100
25 Benzo(g,h,i)perylene	276	15.318	15.344	(1.155)	63273	0.95355	320(M)

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26030.D

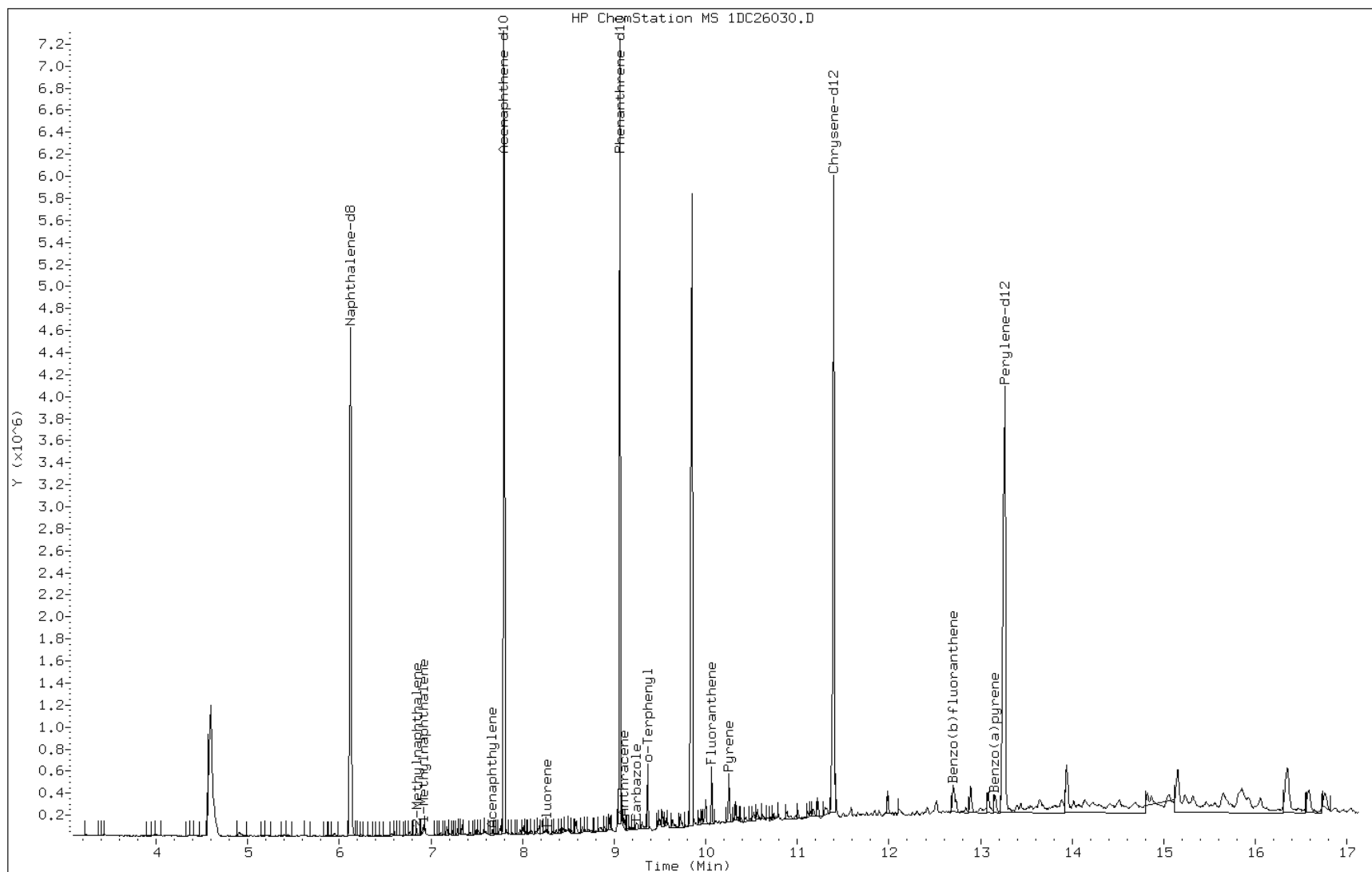
Date: 26-MAR-2013 21:54

Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

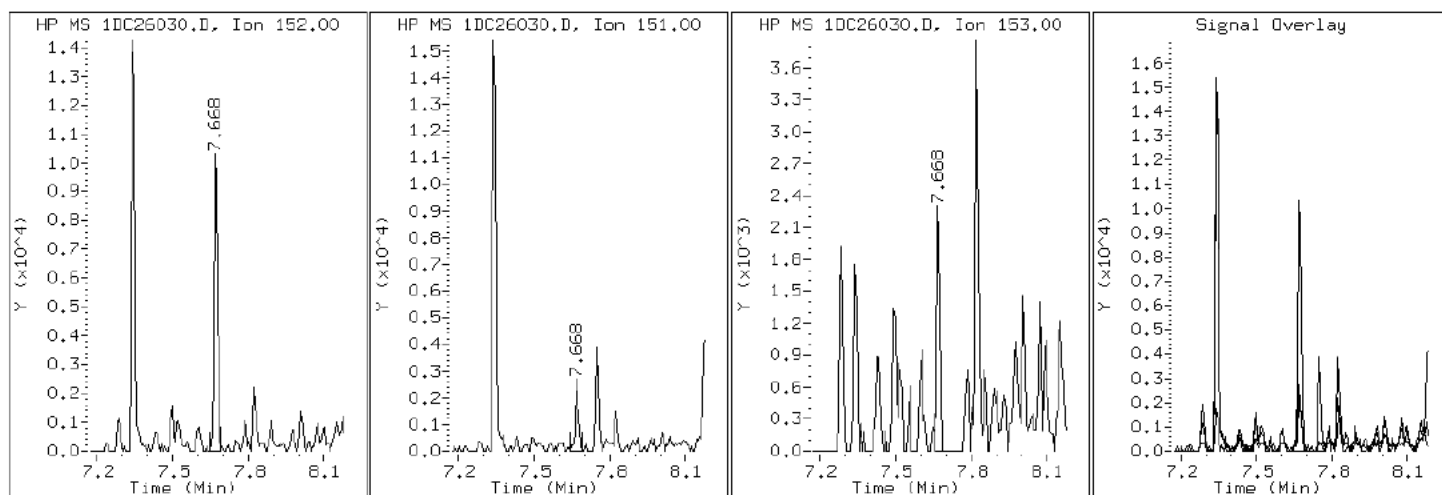
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

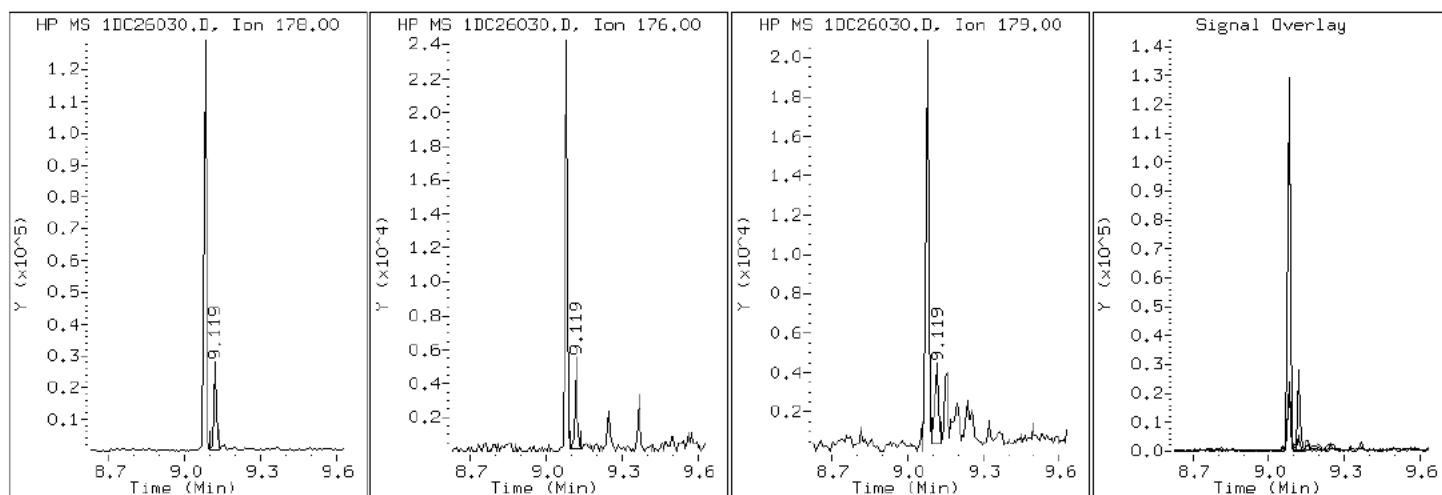
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

11 Anthracene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

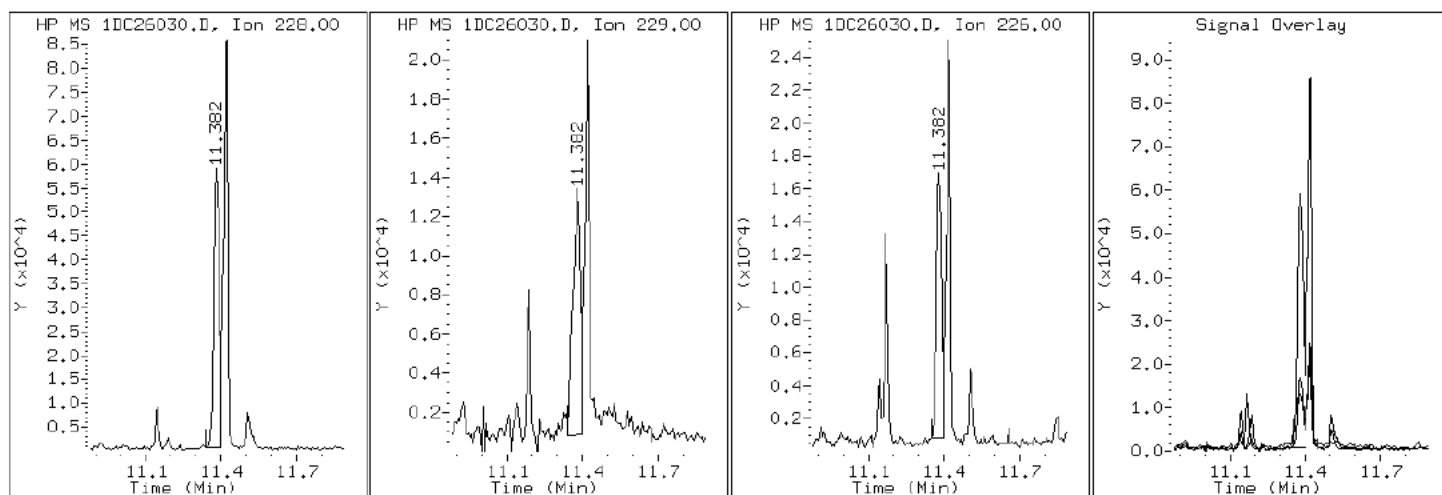
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

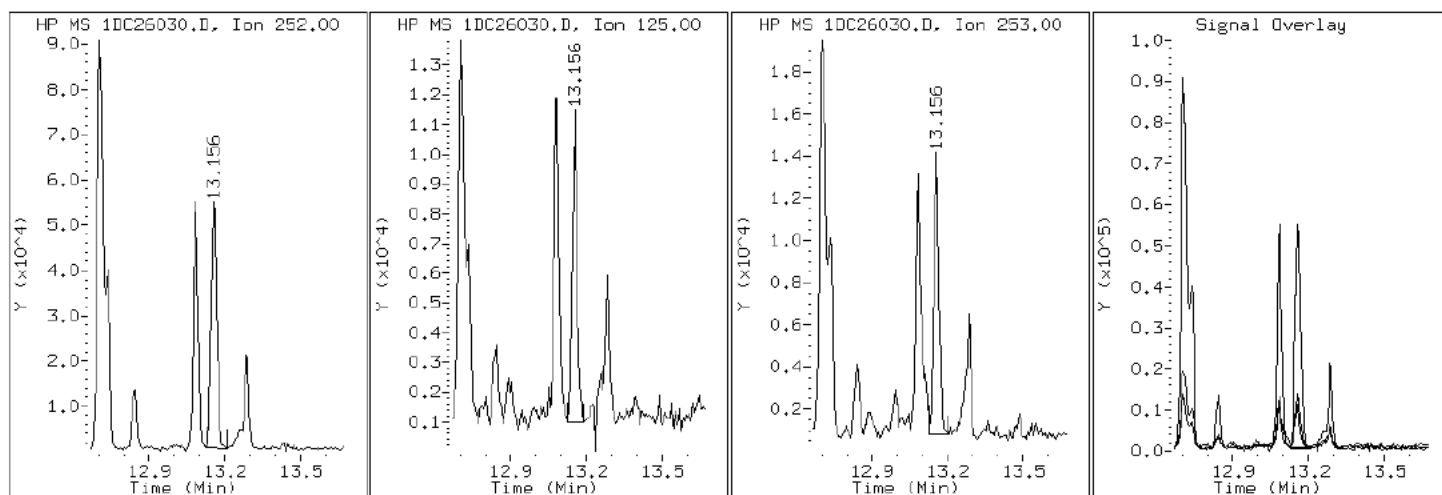
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

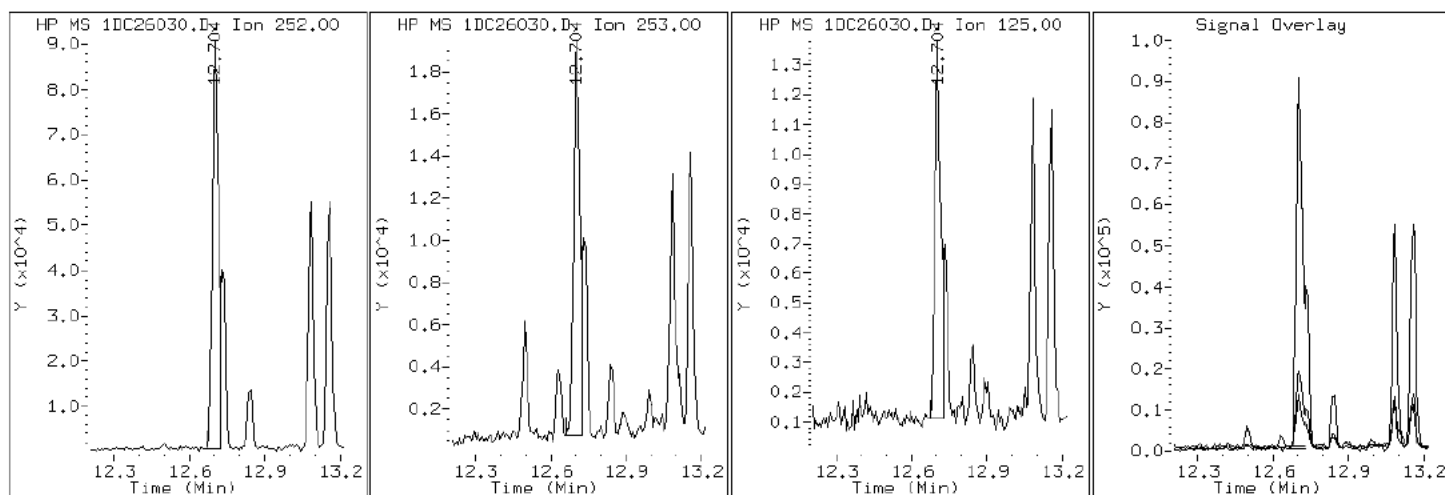
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

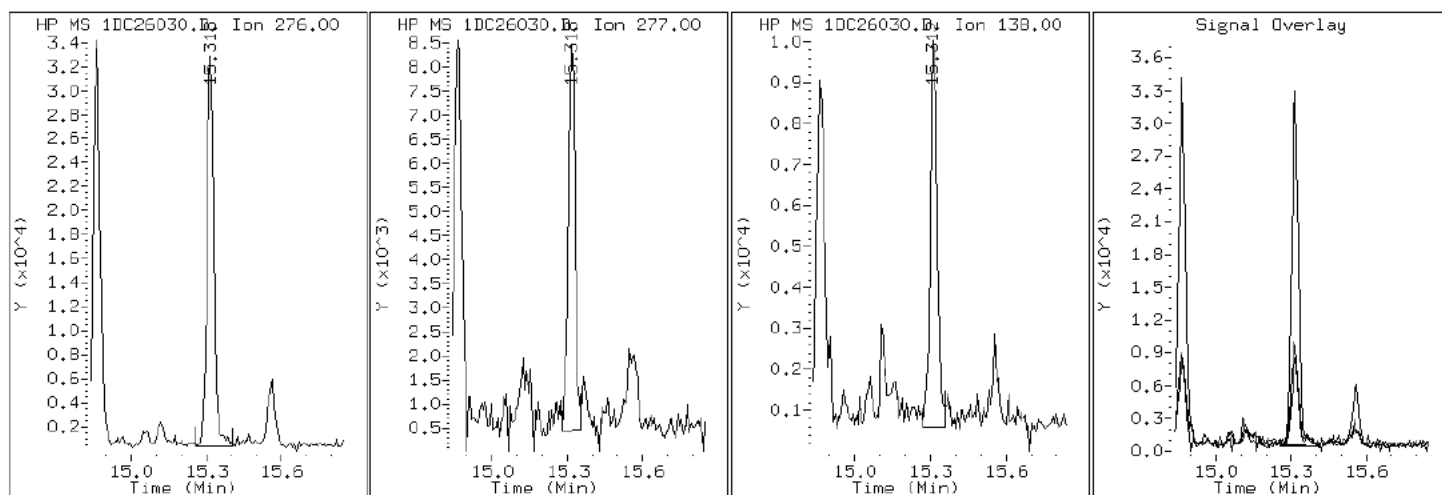
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

25 Benzo(g,h,i)perylene





Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

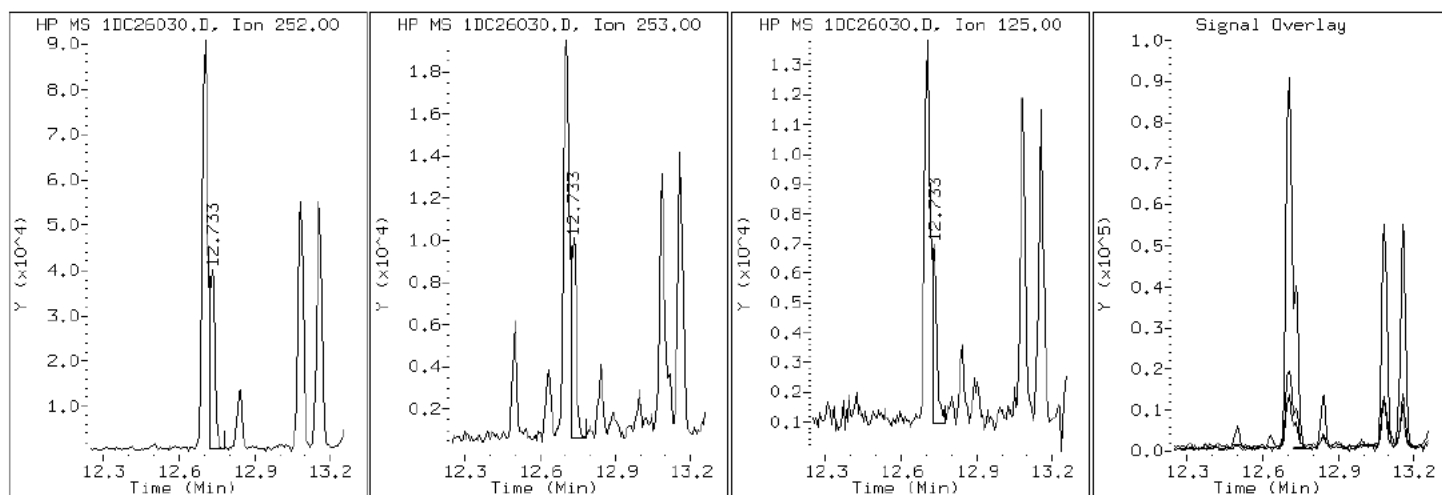
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

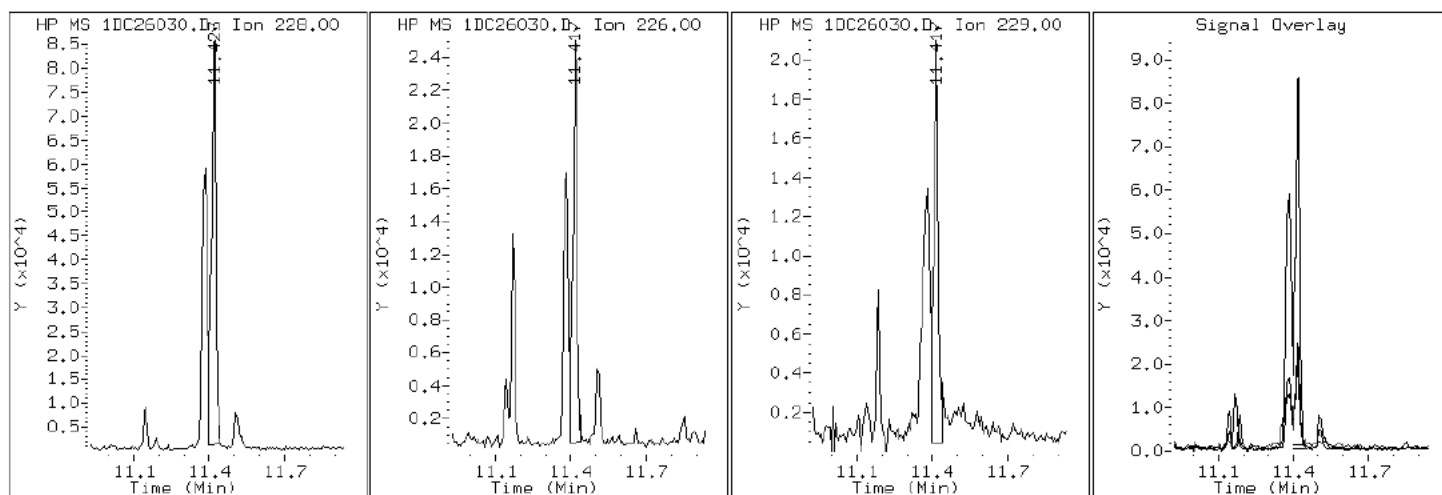
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

18 Chrysene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

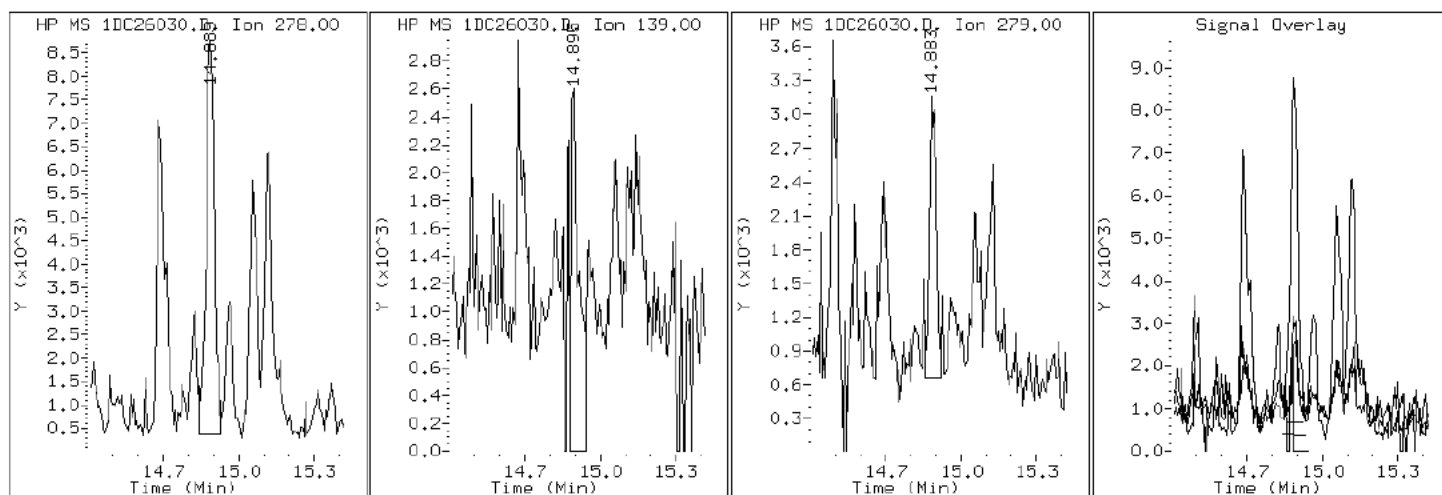
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

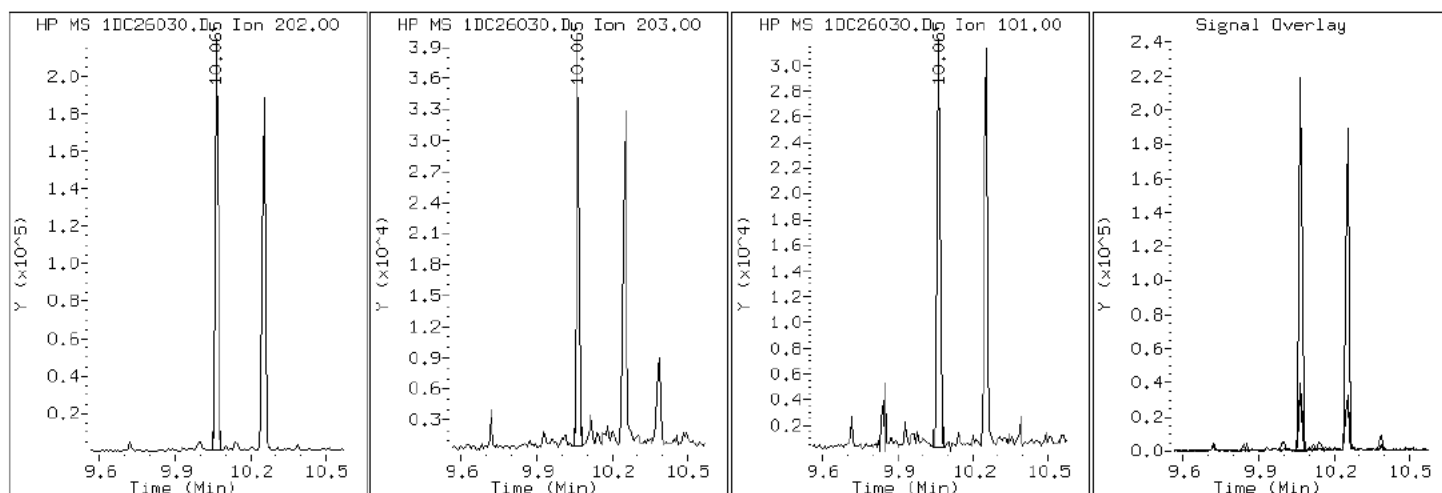
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

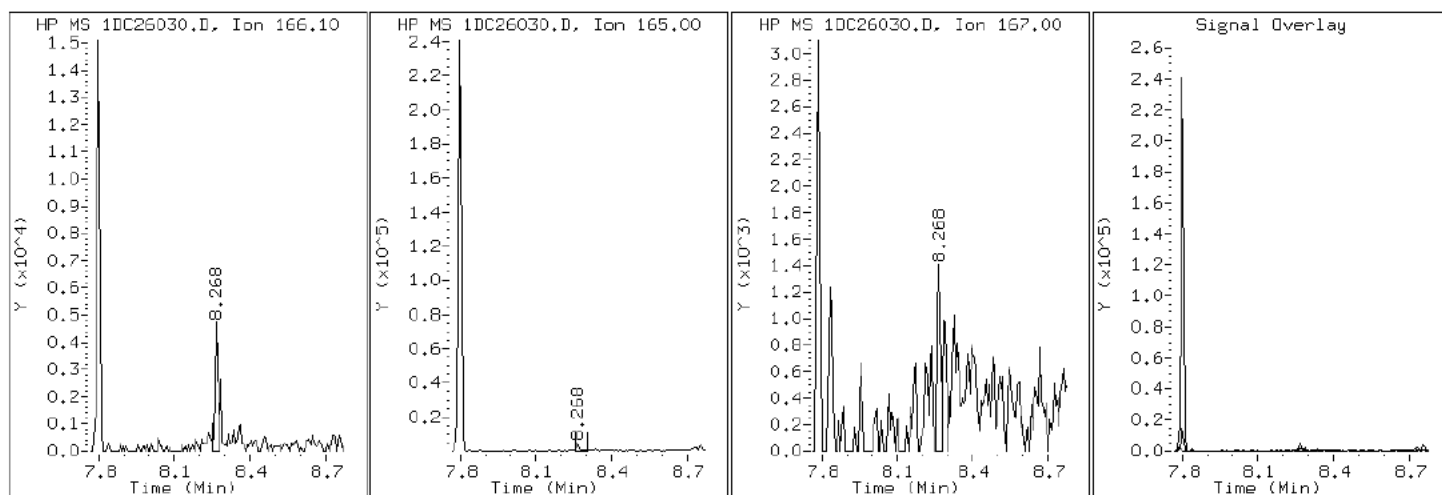
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

8 Fluorene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

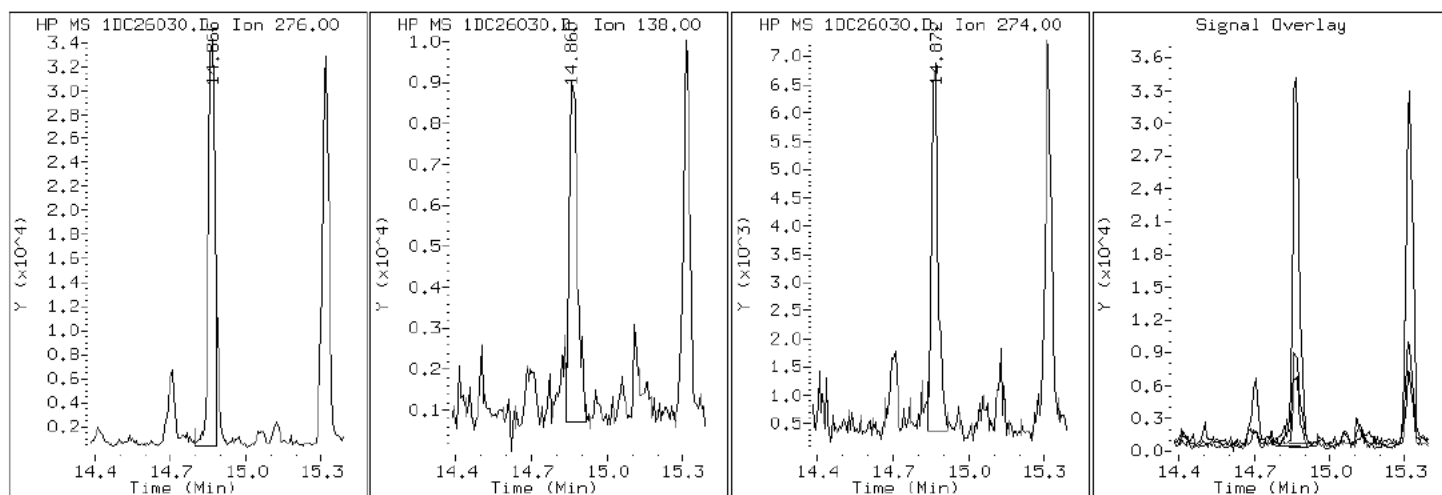
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

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



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

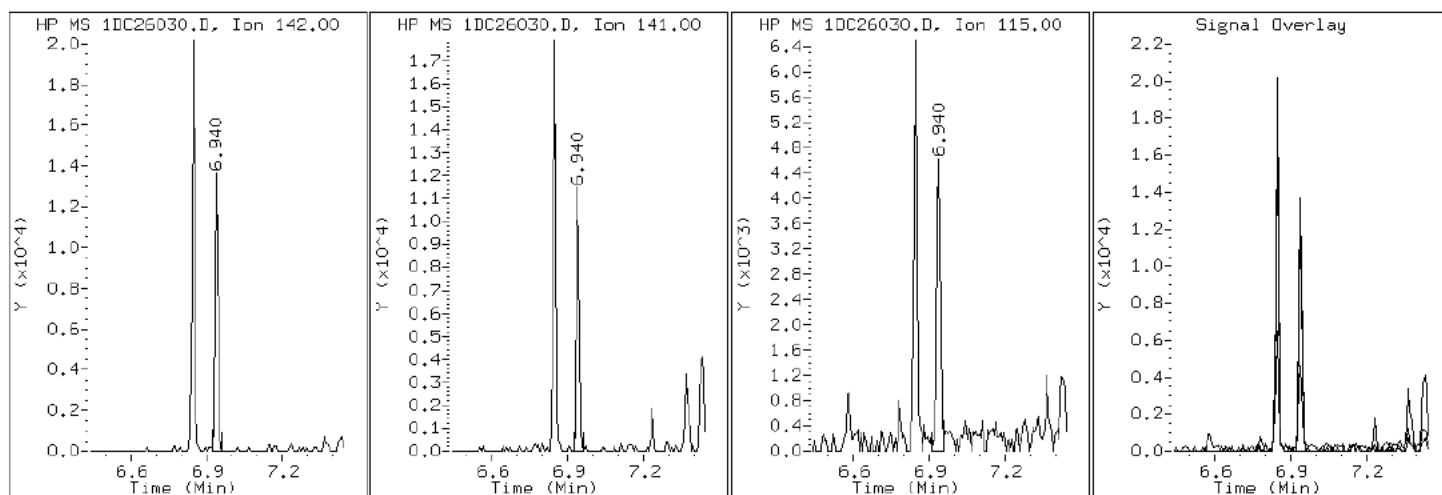
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

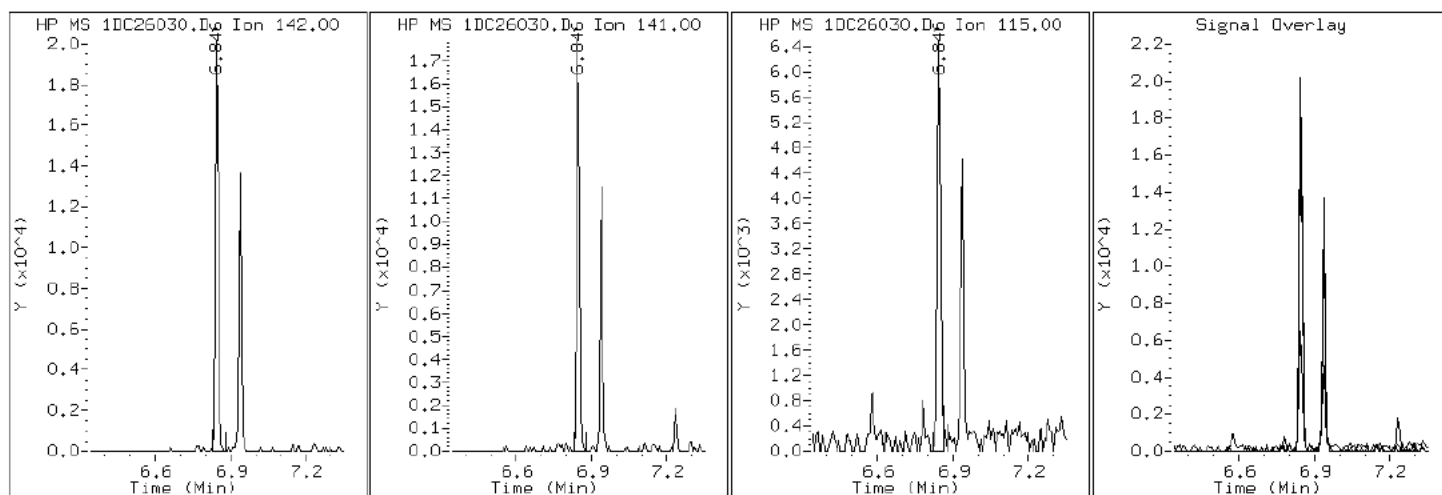
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

3 2-Methylnaphthalene





Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

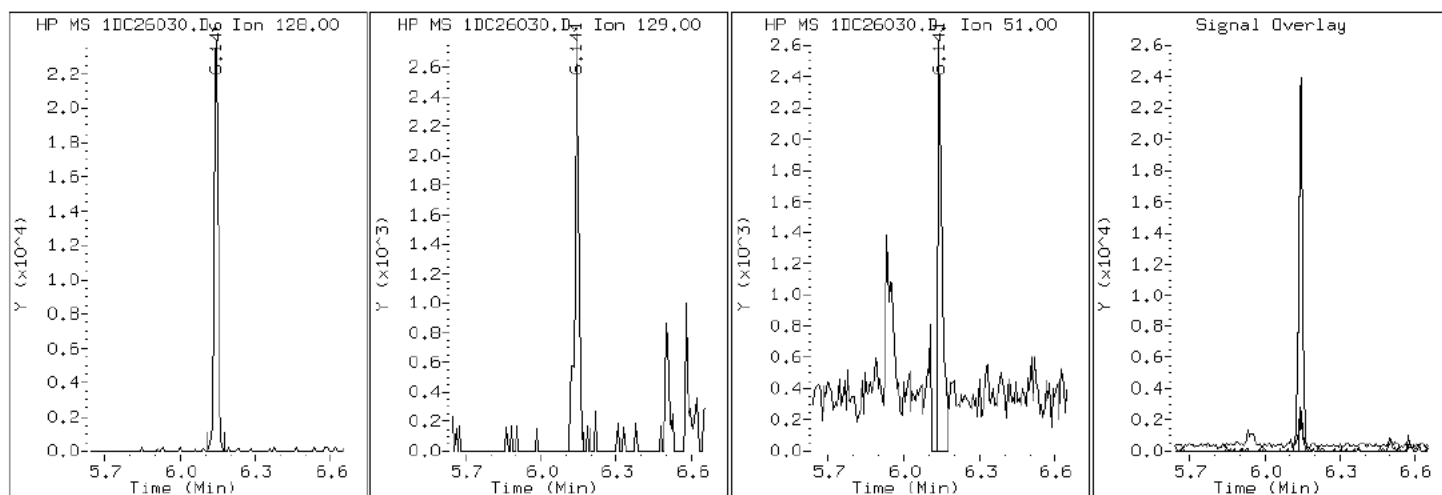
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

## 2 Naphthalene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

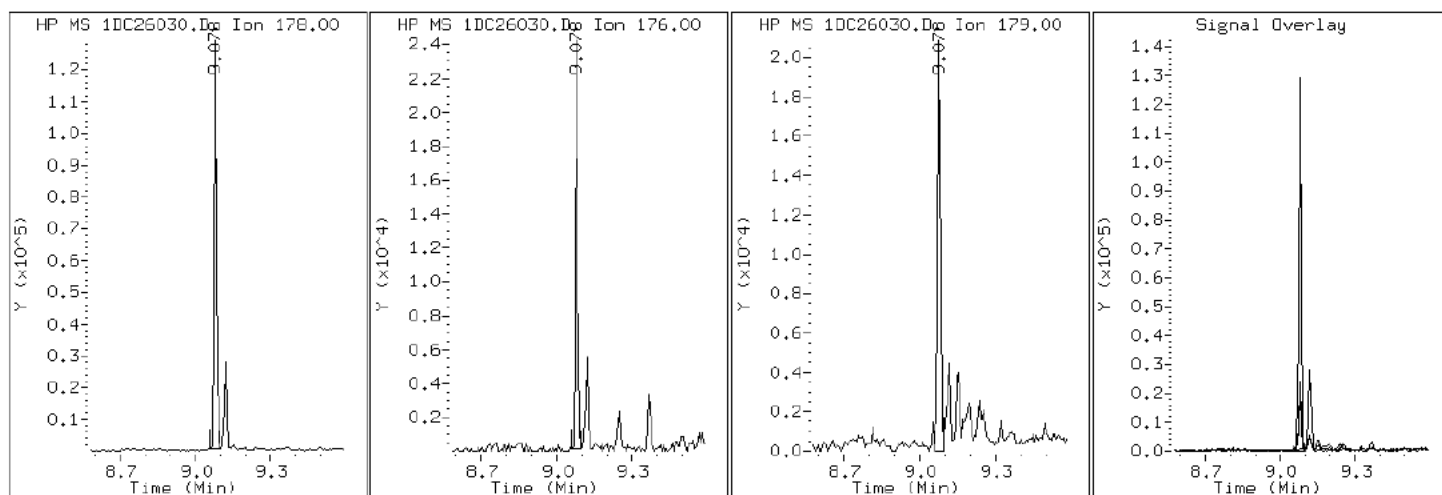
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26030.D

Date: 26-MAR-2013 21:54

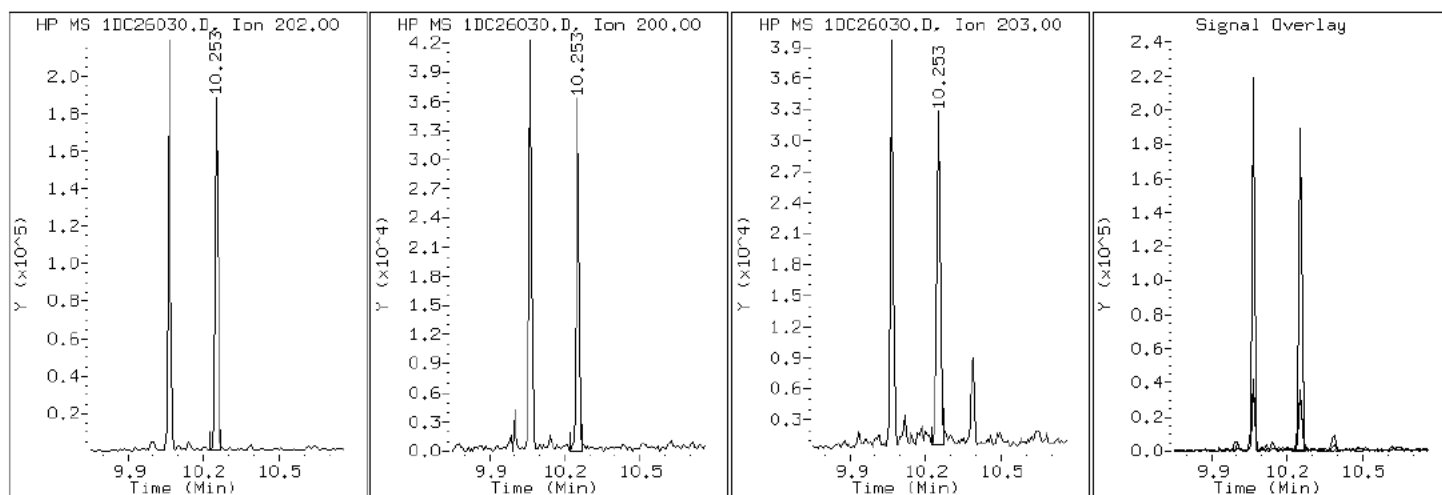
Client ID: CV1360N-CS

Instrument: BSMSD.i

Sample Info: 680-88527-A-23-A

Operator: SCC

15 Pyrene

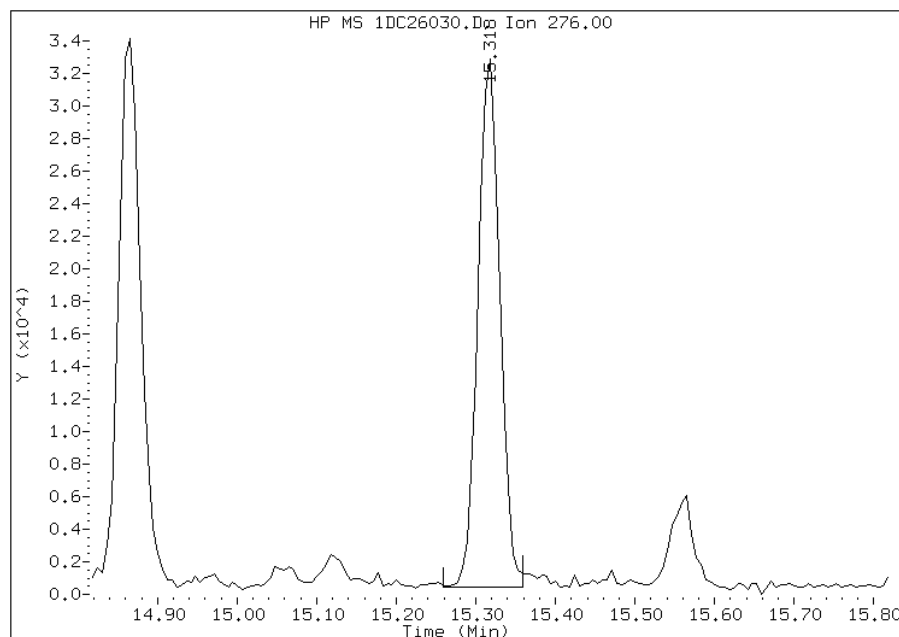


## Manual Integration Report

Data File: 1DC26030.D  
Inj. Date and Time: 26-MAR-2013 21:54  
Instrument ID: BSMSD.i  
Client ID: CV1360N-CS  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/27/2013

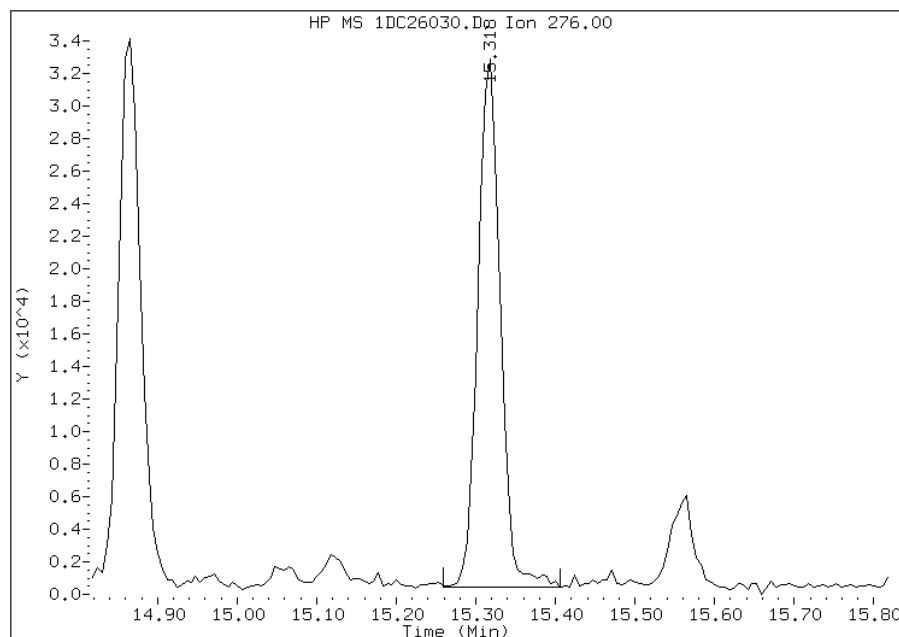
### Processing Integration Results

RT: 15.32  
Response: 61818  
Amount: 1  
Conc: 316



### Manual Integration Results

RT: 15.32  
Response: 63273  
Amount: 1  
Conc: 323



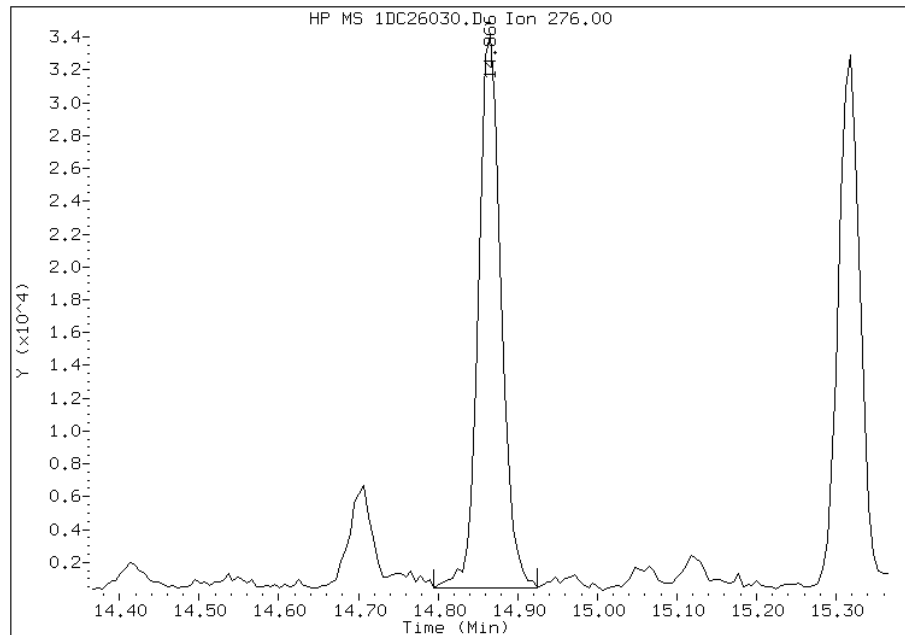
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:25  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1DC26030.D  
Inj. Date and Time: 26-MAR-2013 21:54  
Instrument ID: BSMSD.i  
Client ID: CV1360N-CS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

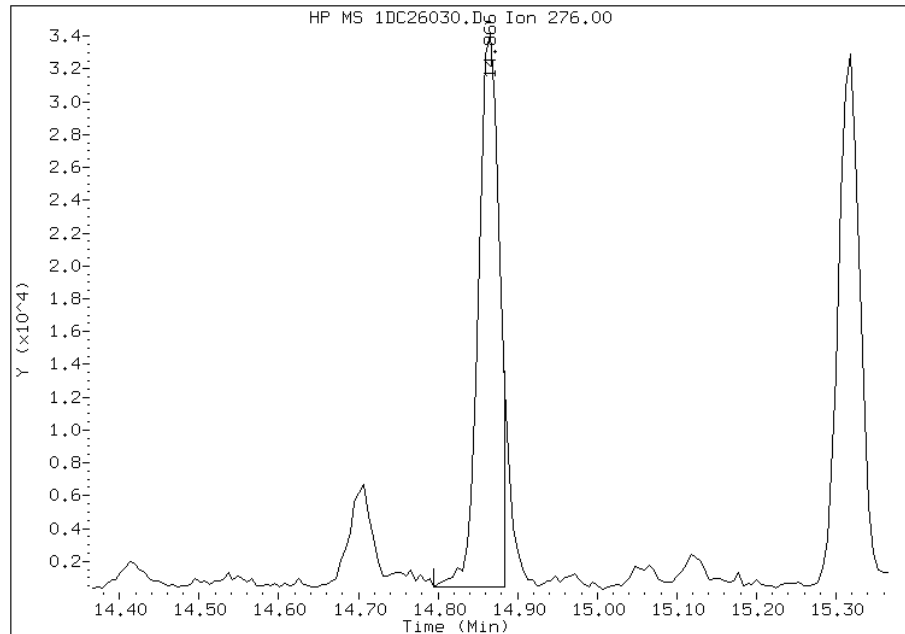
### Processing Integration Results

RT: 14.87  
Response: 66439  
Amount: 1  
Conc: 323



### Manual Integration Results

RT: 14.87  
Response: 61333  
Amount: 1  
Conc: 298



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:25  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV13600-CS</u>	Lab Sample ID: <u>680-88527-24</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC27021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.02(g)</u>	Date Analyzed: <u>03/27/2013 16:18</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>40.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135830</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	68	U	68	8.4
120-12-7	Anthracene	11	J	14	7.1
56-55-3	Benzo[a]anthracene	63		14	6.6
50-32-8	Benzo[a]pyrene	56		18	8.8
205-99-2	Benzo[b]fluoranthene	86		21	10
191-24-2	Benzo[g,h,i]perylene	43		34	7.4
207-08-9	Benzo[k]fluoranthene	49		14	6.1
218-01-9	Chrysene	54		15	7.6
53-70-3	Dibenz(a,h)anthracene	15	J	34	6.9
206-44-0	Fluoranthene	94		34	6.8
86-73-7	Fluorene	34	U	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	27	J	34	12
90-12-0	1-Methylnaphthalene	16	J	68	7.4
91-57-6	2-Methylnaphthalene	16	J	68	12
91-20-3	Naphthalene	38	J	68	7.4
85-01-8	Phenanthrene	52		14	6.6
129-00-0	Pyrene	85		34	6.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27021.D  
Lab Smp Id: 680-88527-A-24-A Client Smp ID: CV13600-CS  
Inj Date : 27-MAR-2013 16:18  
Operator : SCC Inst ID: BSMC5973.i  
Smp Info : 680-88527-a-24-a  
Misc Info : 680-88527-A-24-A  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27021.D  
Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	Weight Extracted
M	40.893	% 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	3.727	3.727	(1.000)	871067	40.0000	
* 6 Acenaphthene-d10		164	4.816	4.815	(1.000)	675108	40.0000	
* 10 Phenanthrene-d10		188	5.763	5.762	(1.000)	1262439	40.0000	
\$ 14 o-Terphenyl		230	6.016	6.015	(1.044)	145880	7.65345	862.0799
* 18 Chrysene-d12		240	7.704	7.704	(1.000)	1404213	40.0000	
* 23 Perylene-d12		264	8.886	8.886	(1.000)	1341393	40.0000	
2 Naphthalene		128	3.739	3.739	(1.003)	7615	0.33580	37.8243
3 2-Methylnaphthalene		142	4.169	4.168	(1.118)	2159	0.14273	16.0768(Q)
4 1-Methylnaphthalene		142	4.227	4.227	(1.134)	1903	0.13813	15.5589
11 Phenanthrene		178	5.780	5.780	(1.003)	16881	0.46244	52.0889
12 Anthracene		178	5.816	5.815	(1.009)	3516	0.09849	11.0932
13 Carbazole		167	5.921	5.921	(1.028)	3106	0.09787	11.0241(Q)
15 Fluoranthene		202	6.616	6.615	(1.148)	33228	0.83119	93.6245
16 Pyrene		202	6.786	6.786	(0.881)	28593	0.75771	85.3476

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	22745	0.56121	63.2146
19 Chrysene	228	7.727	7.727	(1.003)	19328	0.47654	53.6775
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	26788	0.76416	86.0742
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	15688	0.43624	49.1381
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	16798	0.49333	55.5679
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.050	(1.130)	7799	0.24348	27.4250(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.068	(1.130)	4213	0.13446	15.1460(M)
26 Benzo(g,h,i)perylene	276	10.386	10.397	(1.169)	12898	0.38492	43.3574(M)

#### QC Flag Legend

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



Data File: 1CC27021.D

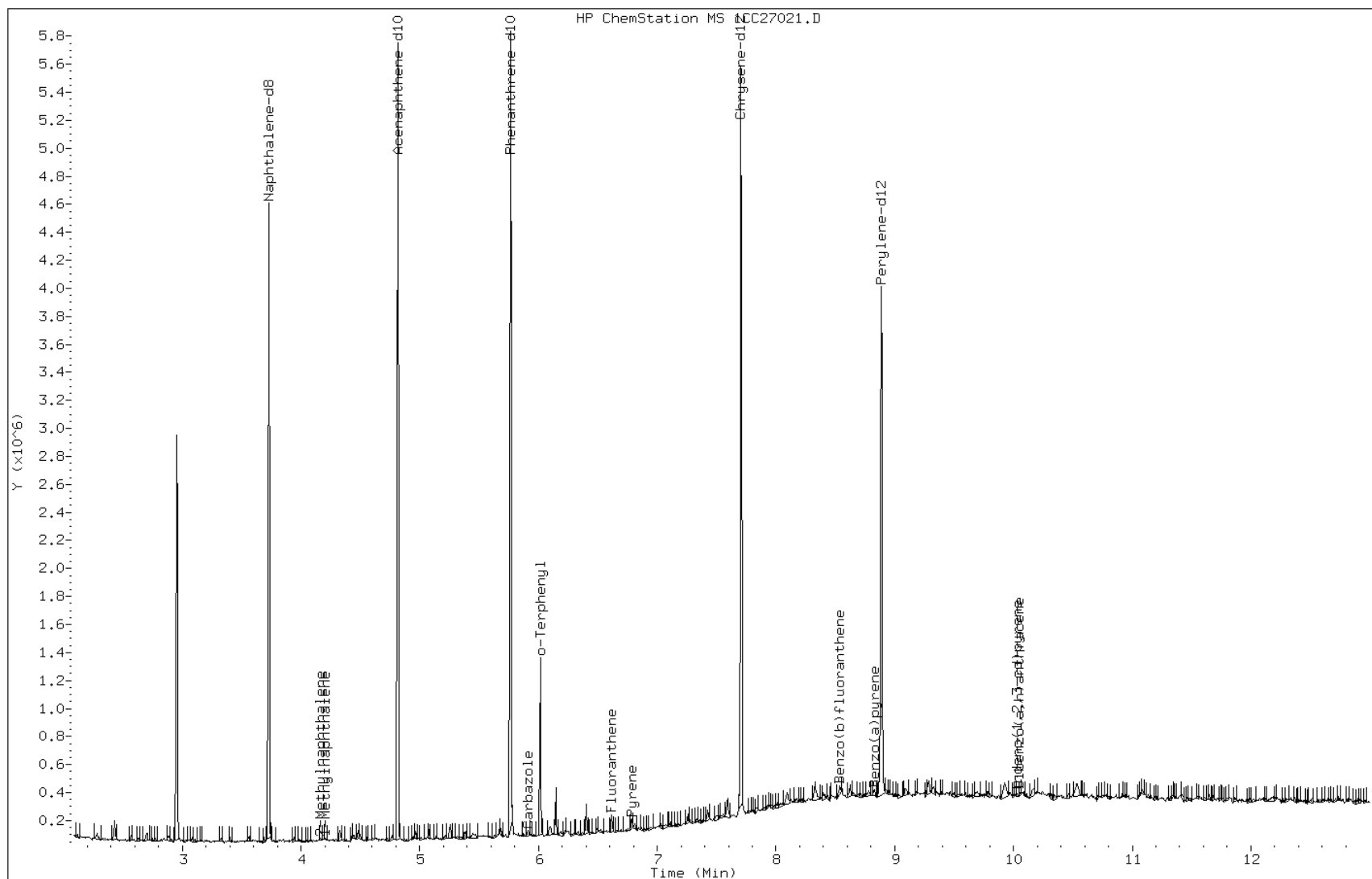
Date: 27-MAR-2013 16:18

Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

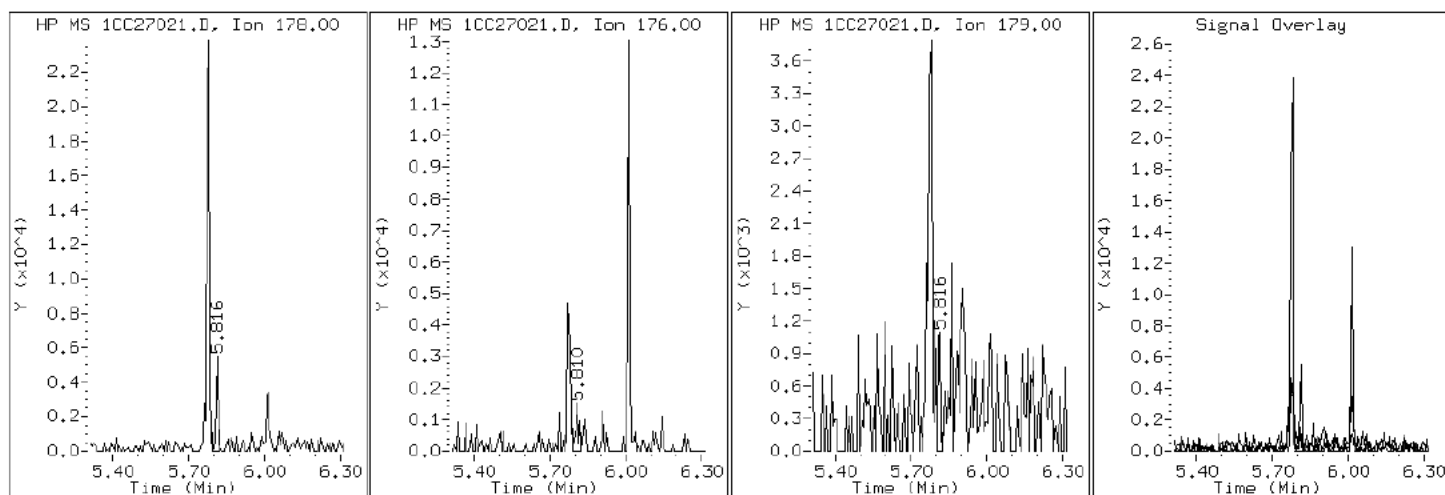
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

12 Anthracene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

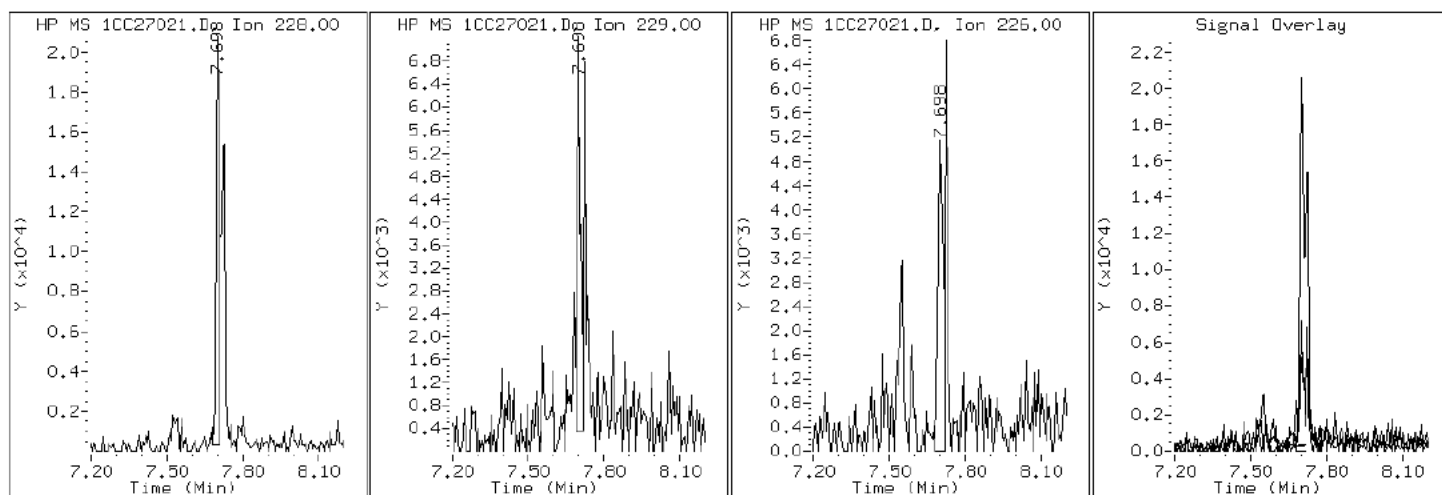
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

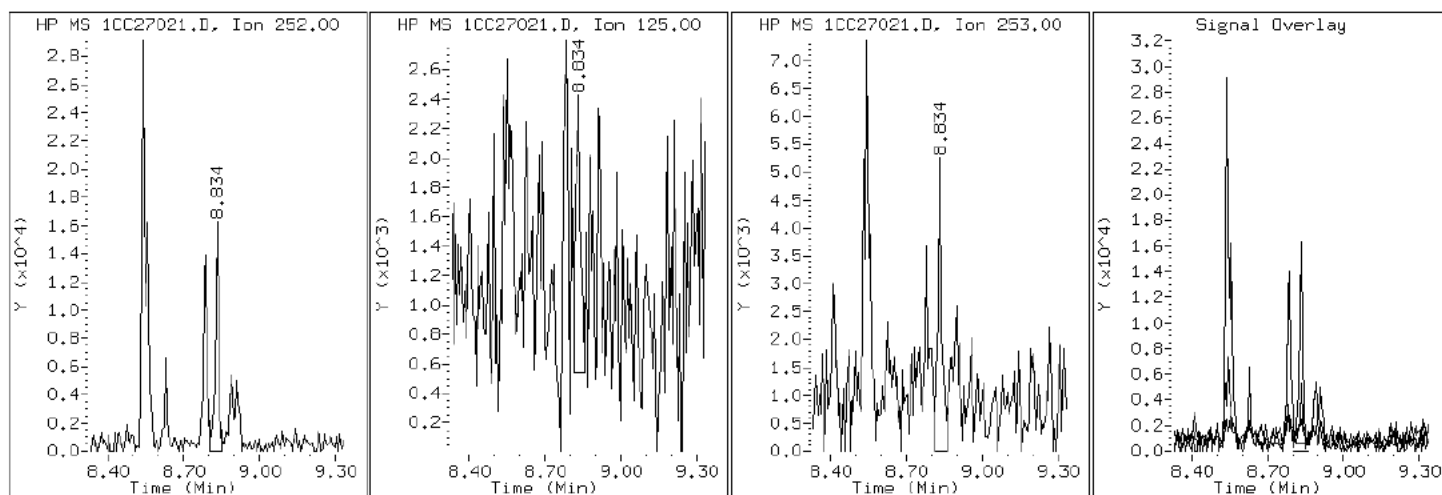
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

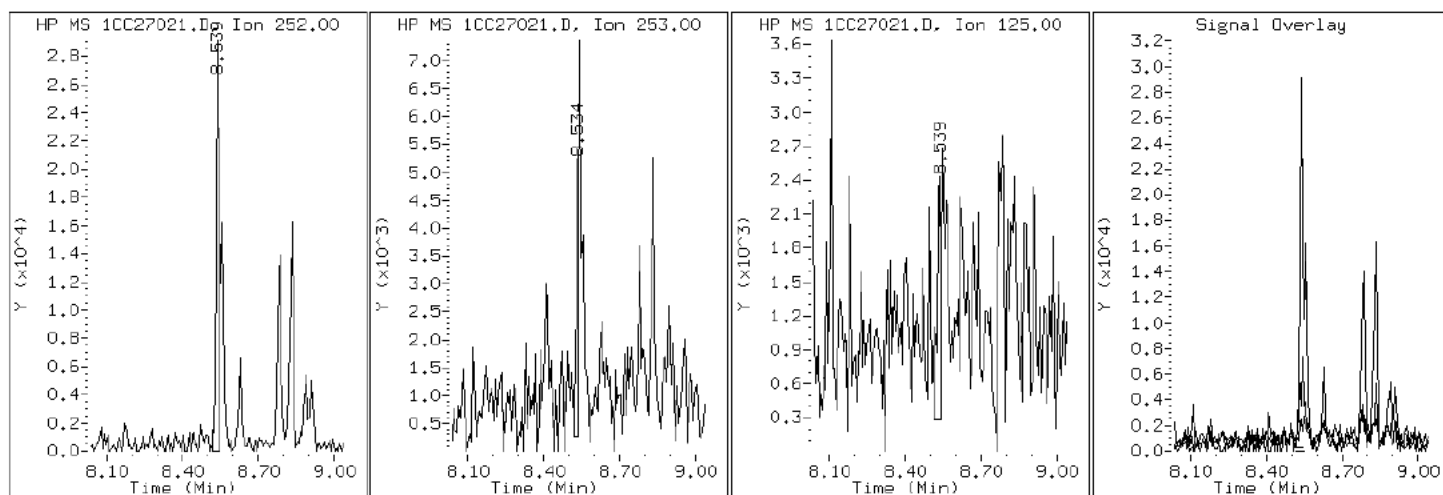
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

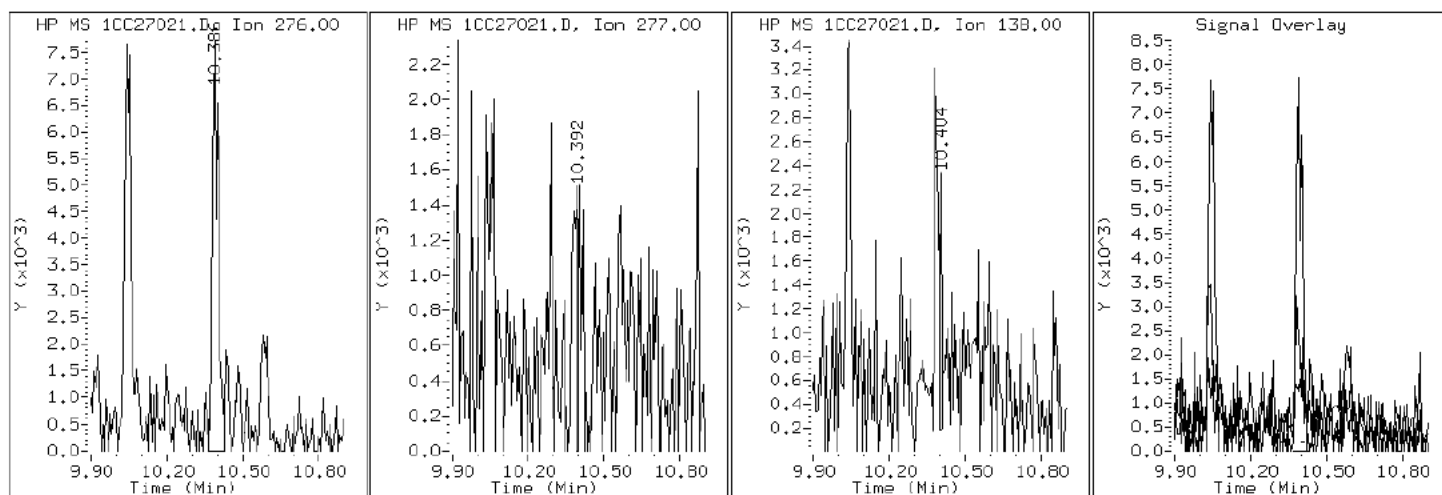
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

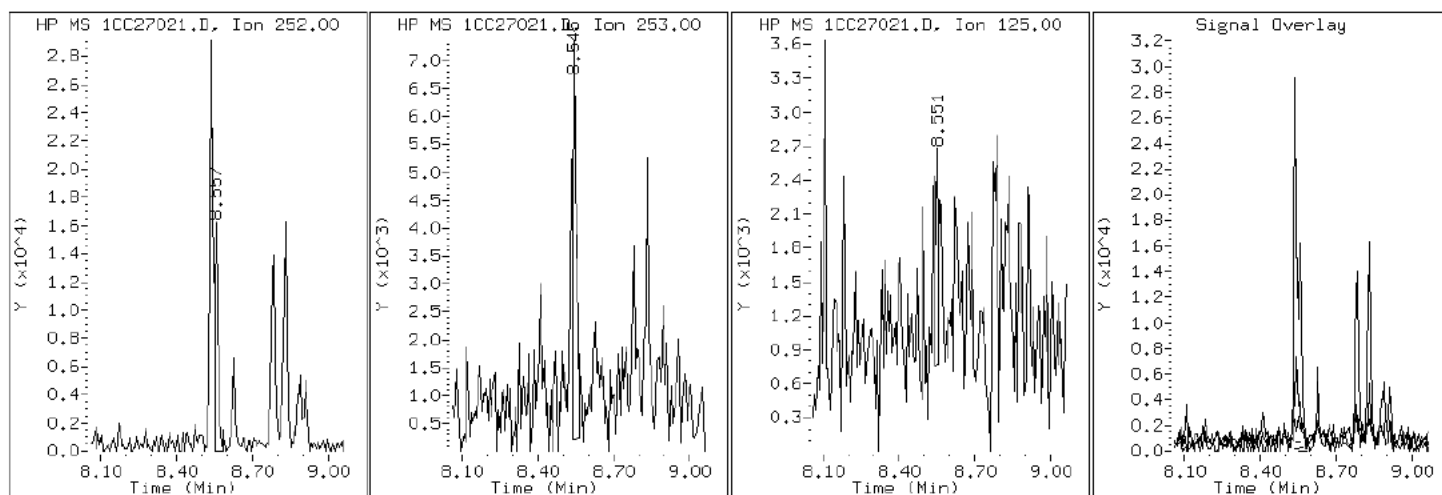
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

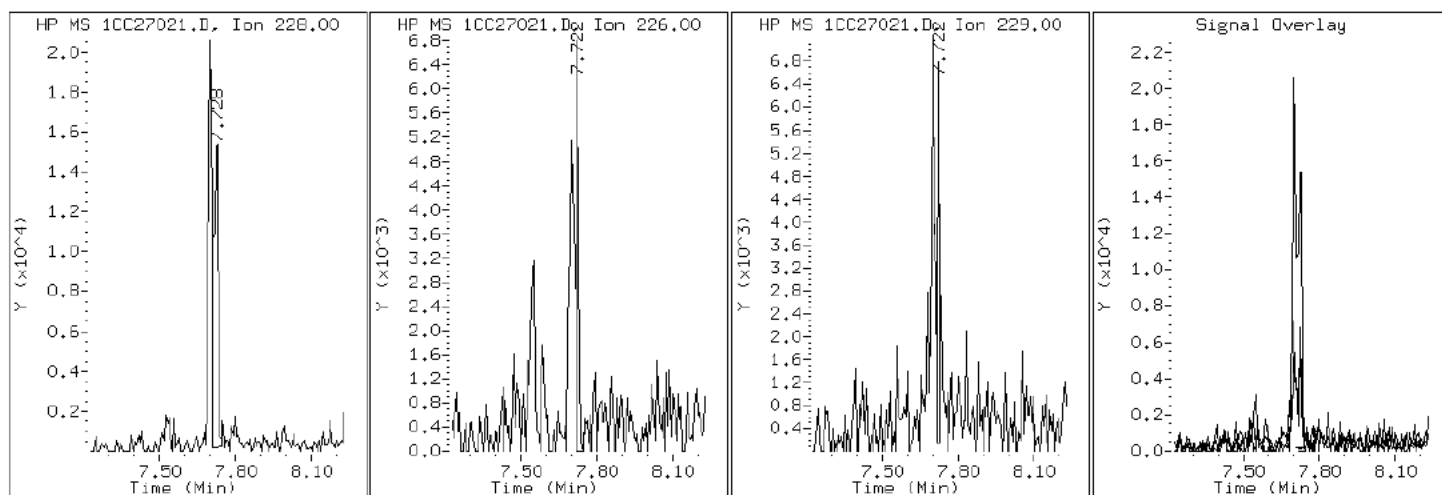
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

19 Chrysene





Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

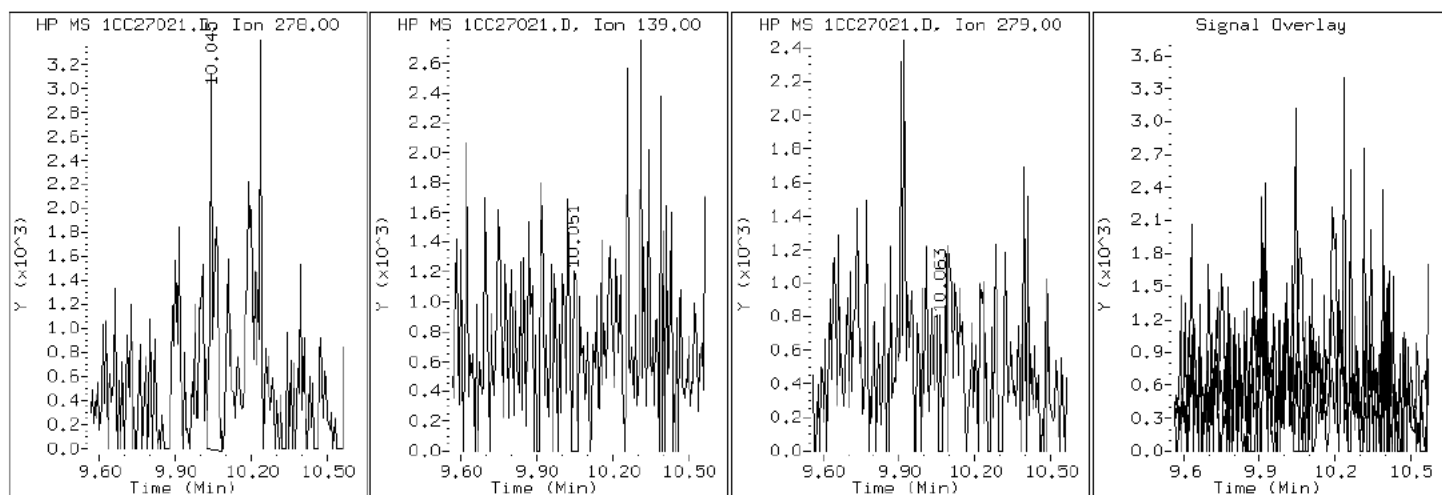
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

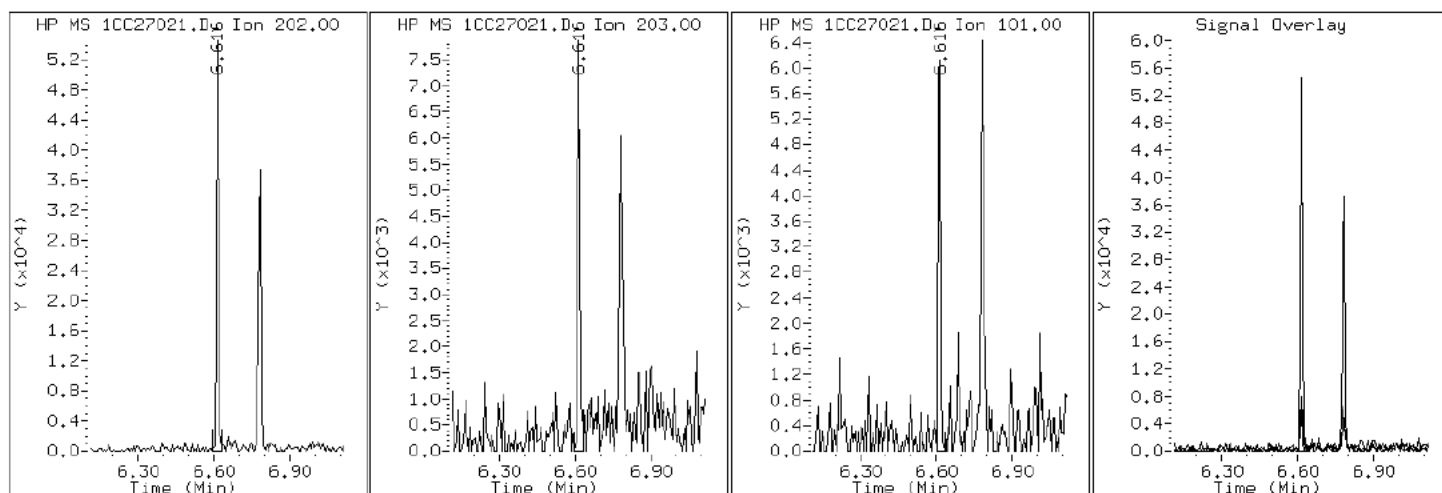
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

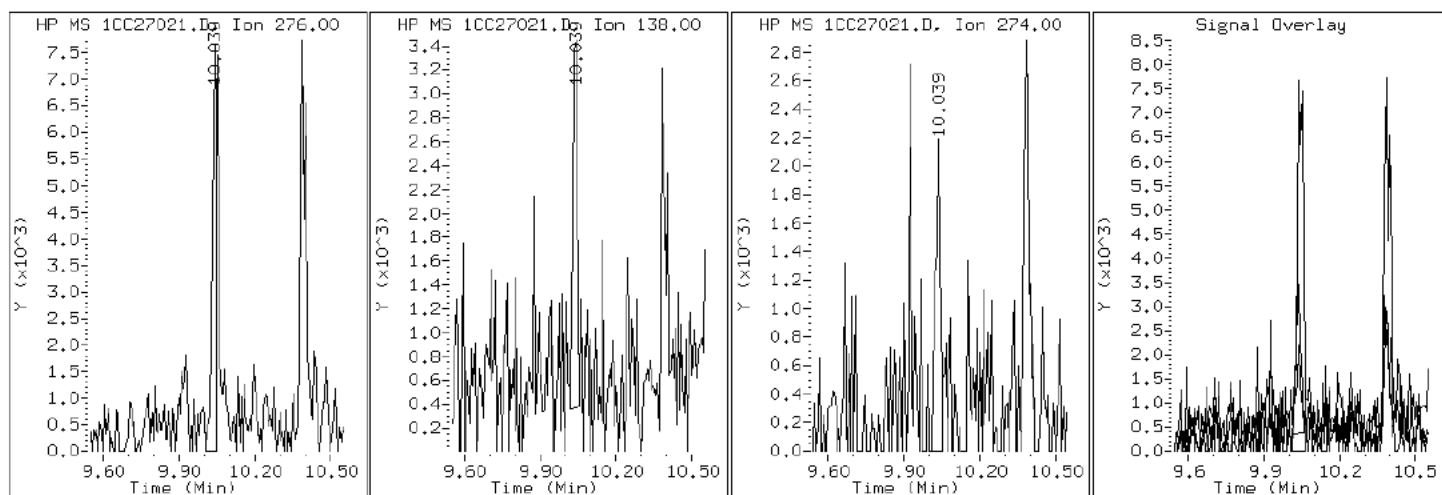
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

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



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

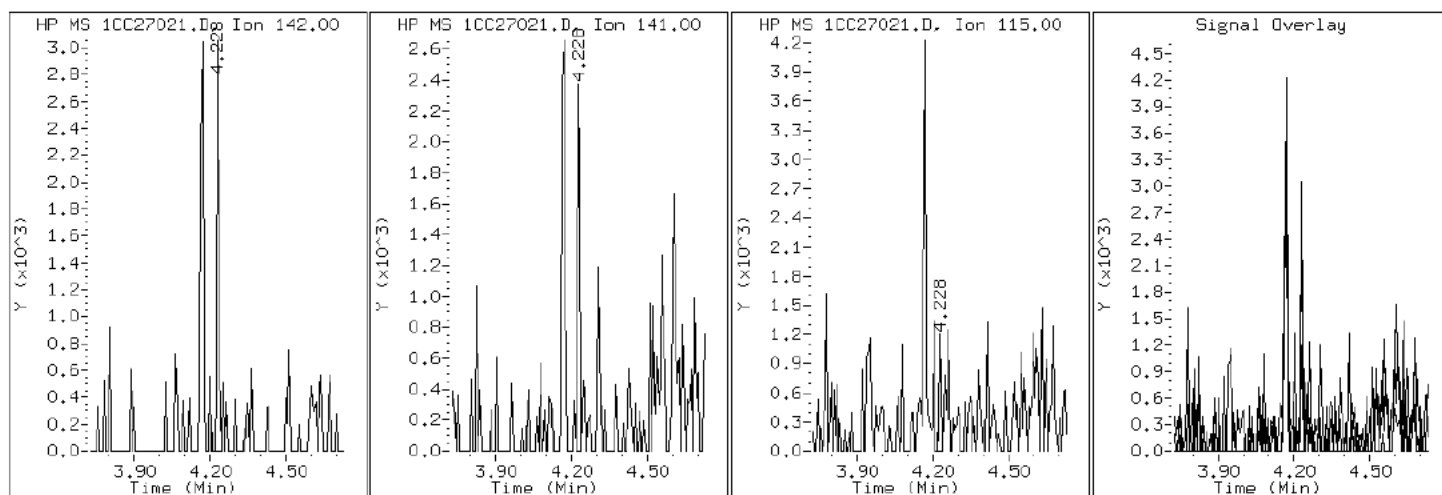
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

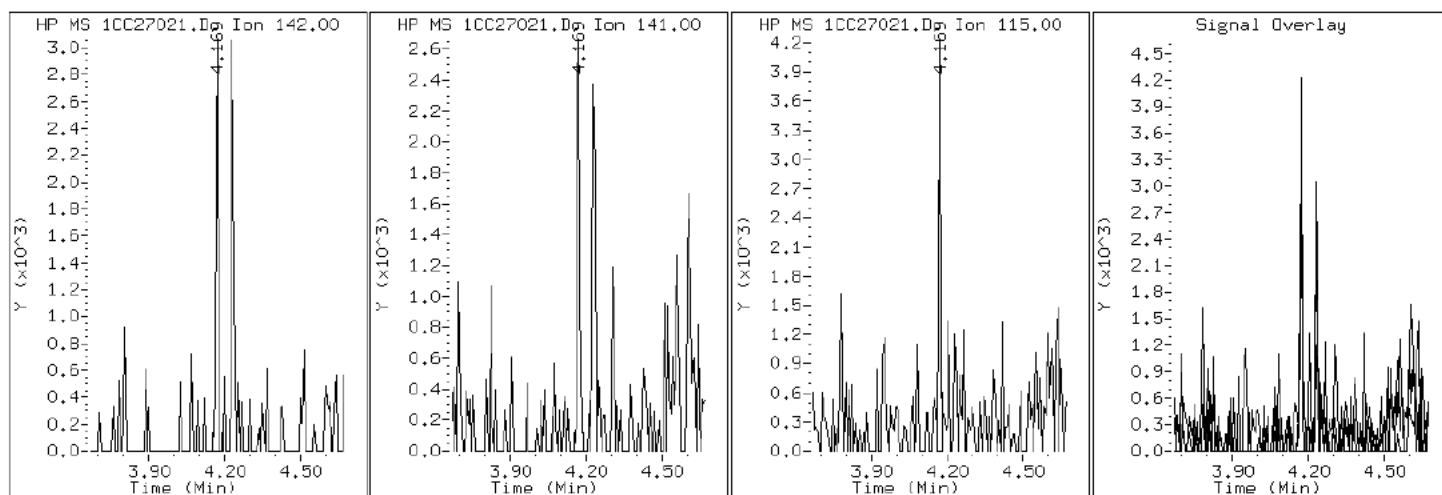
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

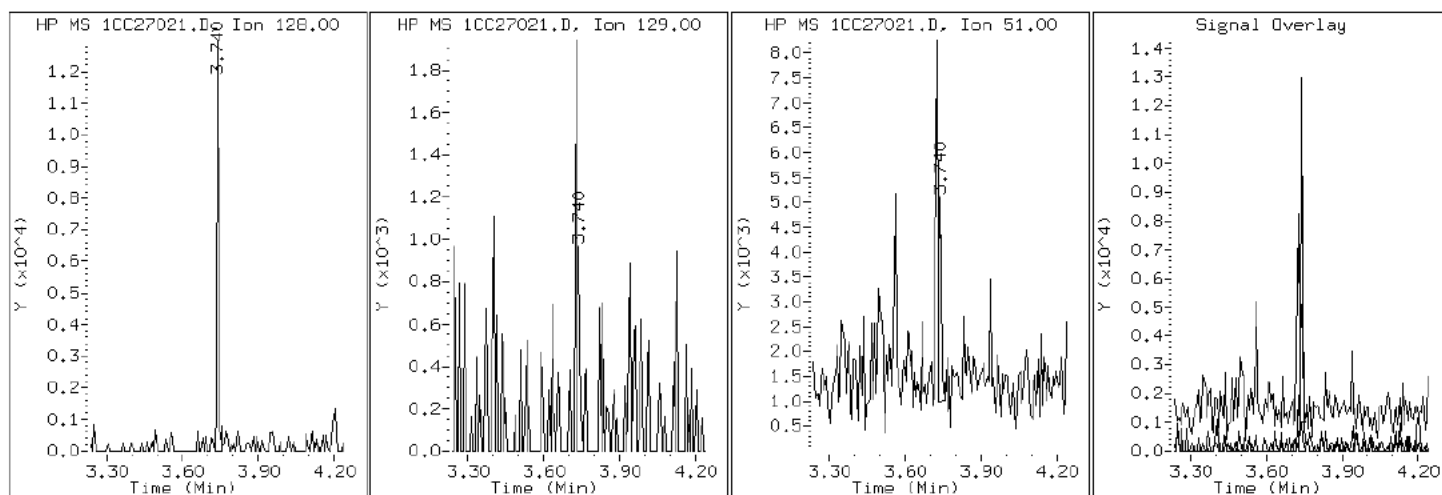
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

## 2 Naphthalene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

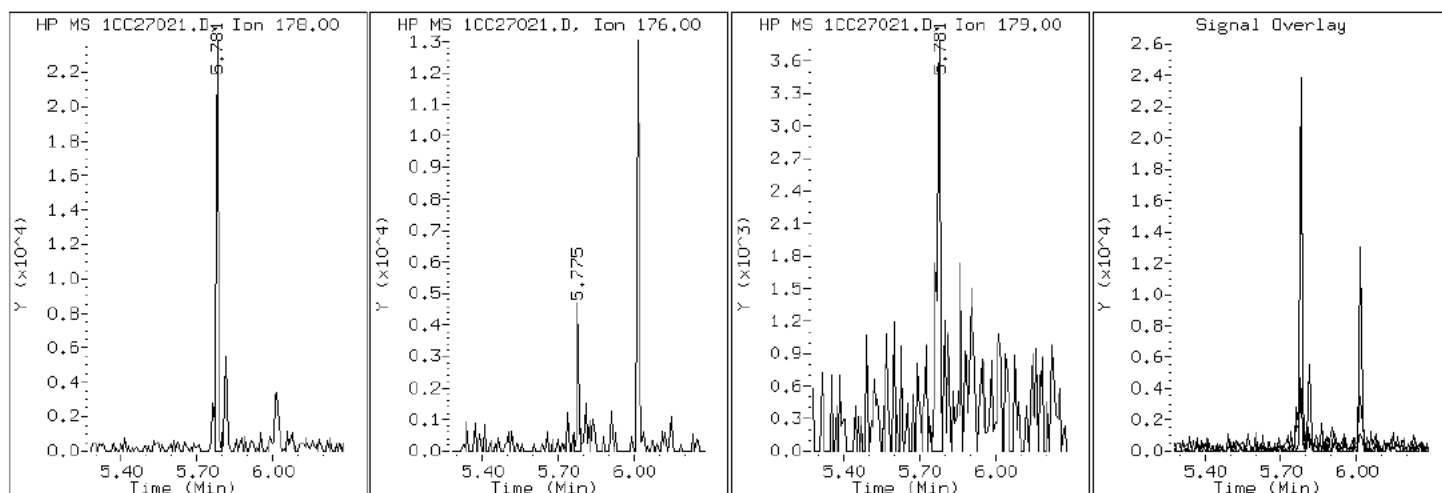
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27021.D

Date: 27-MAR-2013 16:18

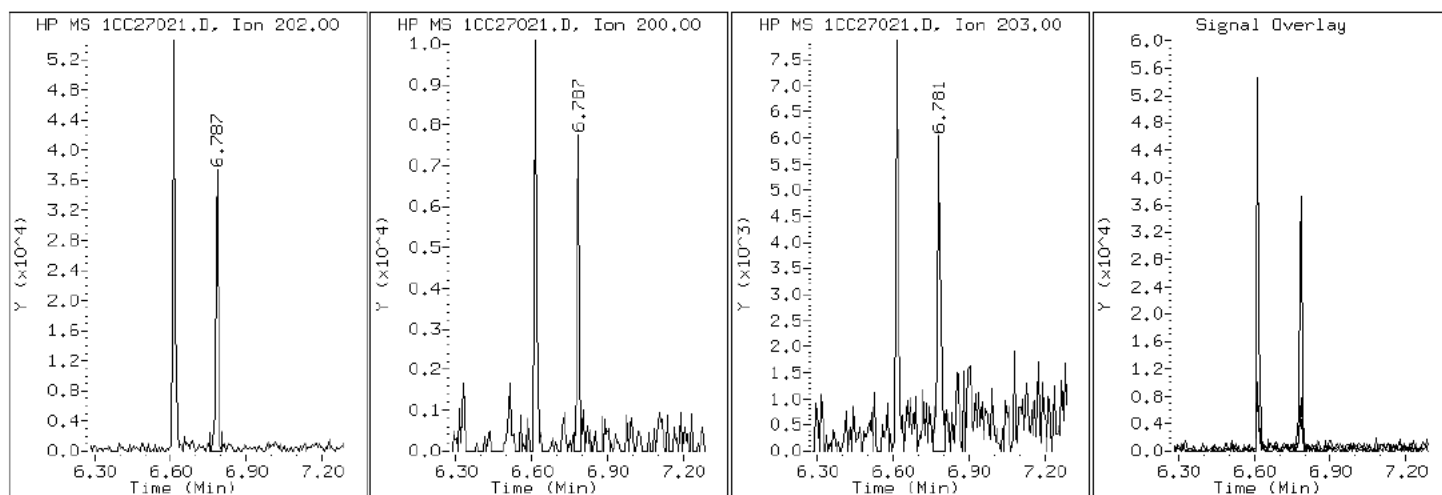
Client ID: CV13600-CS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-24-a

Operator: SCC

16 Pyrene



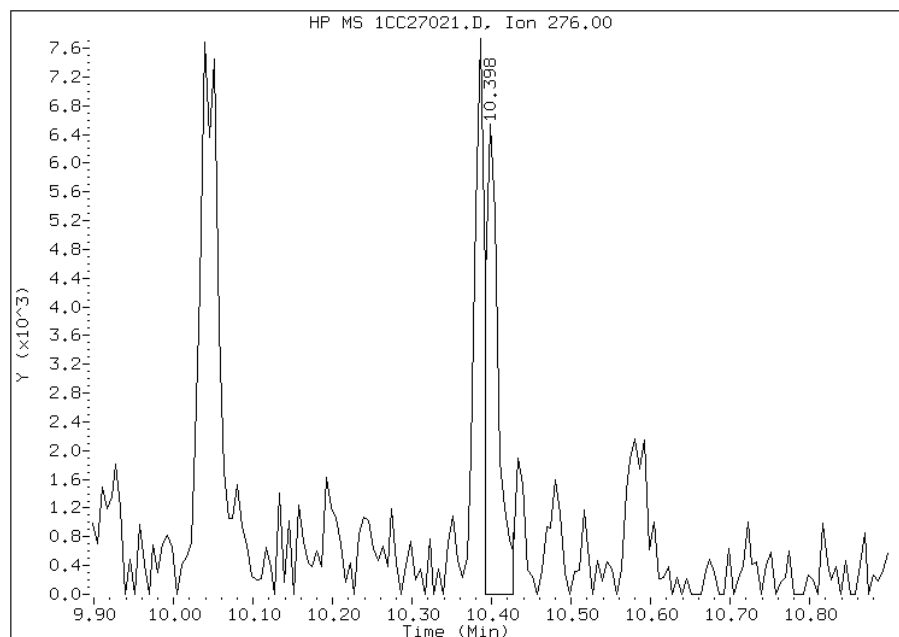


## Manual Integration Report

Data File: 1CC27021.D  
Inj. Date and Time: 27-MAR-2013 16:18  
Instrument ID: BSMC5973.i  
Client ID: CV13600-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/27/2013

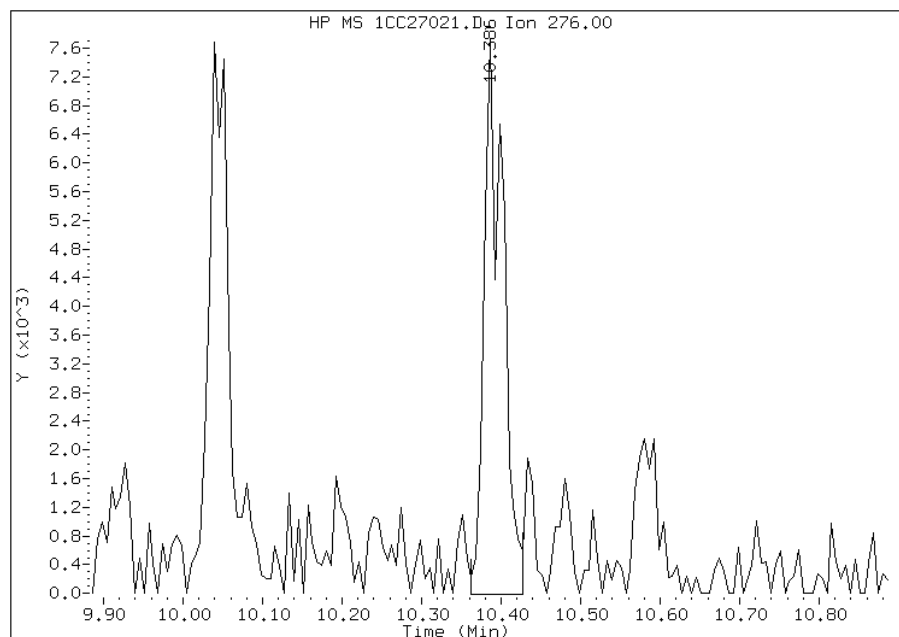
### Processing Integration Results

RT: 10.40  
Response: 7283  
Amount: 0  
Conc: 24



### Manual Integration Results

RT: 10.39  
Response: 12898  
Amount: 0  
Conc: 43



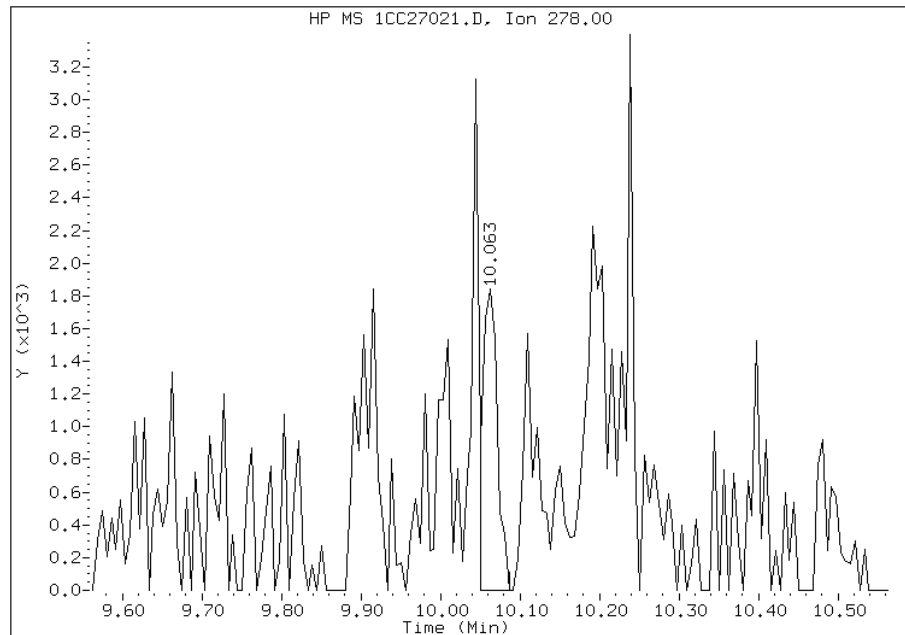
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 17:26  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CC27021.D  
Inj. Date and Time: 27-MAR-2013 16:18  
Instrument ID: BSMC5973.i  
Client ID: CV13600-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 03/27/2013

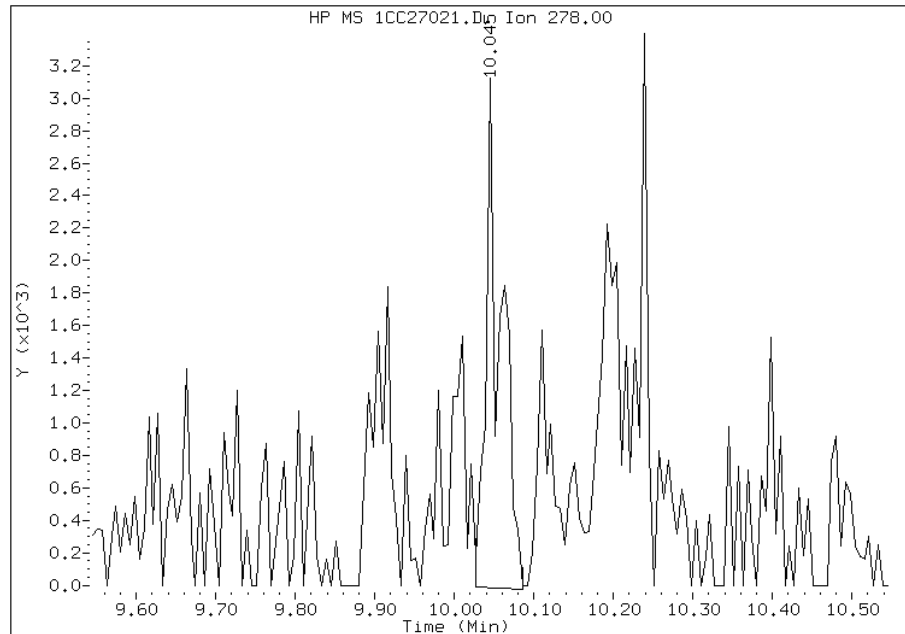
### Processing Integration Results

RT: 10.06  
Response: 2389  
Amount: 0  
Conc: 9



### Manual Integration Results

RT: 10.05  
Response: 4213  
Amount: 0  
Conc: 15



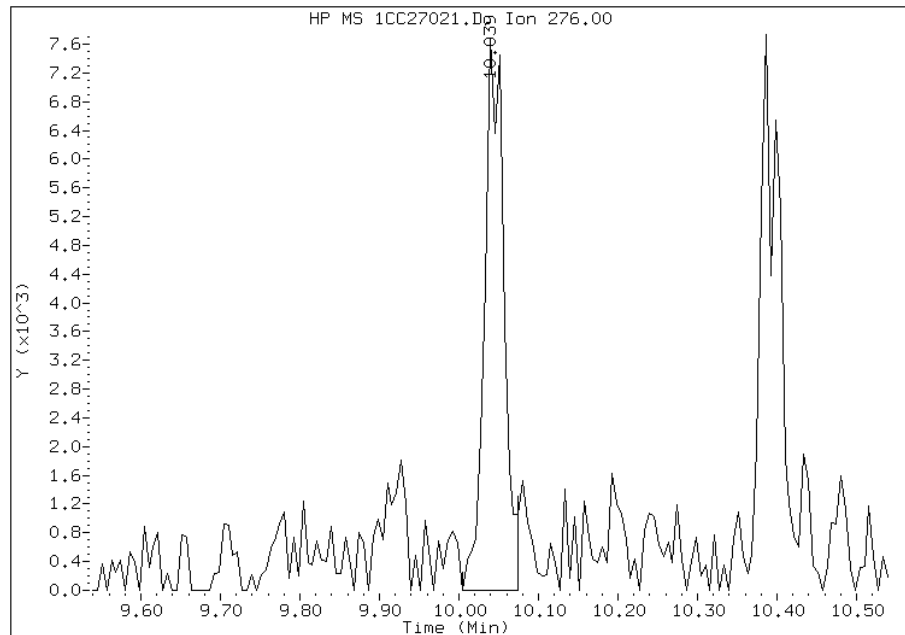
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 17:26  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CC27021.D  
Inj. Date and Time: 27-MAR-2013 16:18  
Instrument ID: BSMC5973.i  
Client ID: CV13600-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

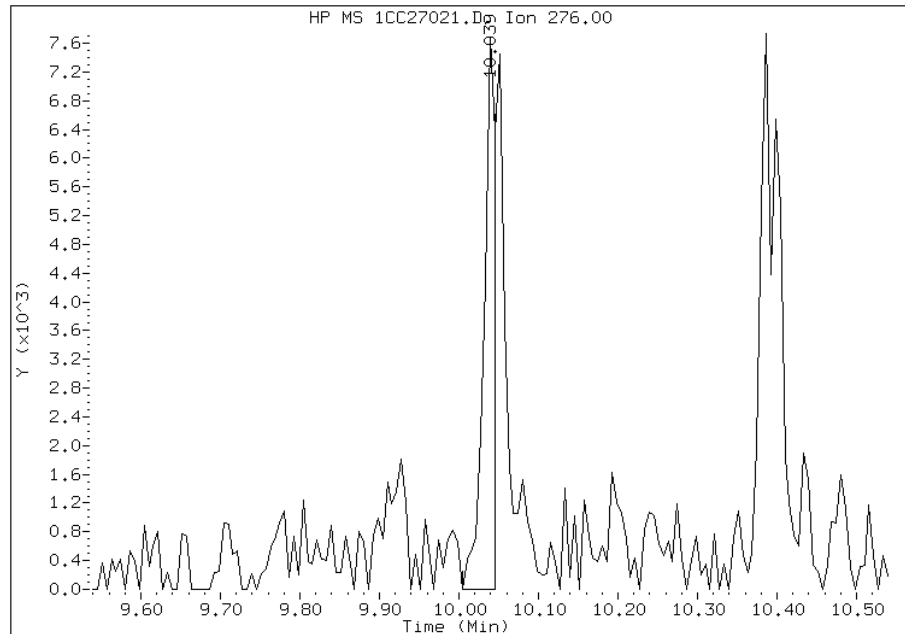
### Processing Integration Results

RT: 10.04  
Response: 13081  
Amount: 0  
Conc: 46



### Manual Integration Results

RT: 10.04  
Response: 7799  
Amount: 0  
Conc: 27



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 17:26  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360P-CS</u>	Lab Sample ID: <u>680-88527-25</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.04(g)</u>	Date Analyzed: <u>03/26/2013 19:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>25.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	27
120-12-7	Anthracene	83		45	22
56-55-3	Benzo[a]anthracene	370		43	21
50-32-8	Benzo[a]pyrene	240		56	28
205-99-2	Benzo[b]fluoranthene	770		65	33
191-24-2	Benzo[g,h,i]perylene	190		110	24
207-08-9	Benzo[k]fluoranthene	110		43	19
218-01-9	Chrysene	340		48	24
53-70-3	Dibenz(a,h)anthracene	83	J	110	22
206-44-0	Fluoranthene	460		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	160		110	38
90-12-0	1-Methylnaphthalene	40	J	210	24
91-57-6	2-Methylnaphthalene	390		210	38
91-20-3	Naphthalene	110	J	210	24
85-01-8	Phenanthrene	200		43	21
129-00-0	Pyrene	410		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	119		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26029.D  
 Lab Smp Id: 680-88527-A-25-A Client Smp ID: CV1360P-CS  
 Inj Date : 26-MAR-2013 19:54  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88527-A-25-A  
 Misc Info : 680-88527-A-25-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26029.D  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 29  
 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	15.040	Weight Extracted
M	25.408	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	****	*****	*****	*****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	2.281	2.272 (1.000)	365295	40.0000				
* 6 Acenaphthene-d10	164	3.301	3.287 (1.000)	298565	40.0000				(H)
* 10 Phenanthrene-d10	188	4.220	4.205 (1.000)	422056	40.0000				
\$ 14 o-Terphenyl	230	4.493	4.478 (1.065)	15977	2.98617	1064.7164			
* 18 Chrysene-d12	240	6.218	6.193 (1.000)	334464	40.0000				(H)
* 23 Perylene-d12	264	7.313	7.272 (1.000)	405118	40.0000				
2 Naphthalene	128	2.292	2.282 (1.005)	2545	0.30156	107.5197			
3 2-Methylnaphthalene	141	2.698	2.683 (1.183)	1037	1.08119	385.4976			
4 1-Methylnaphthalene	142	2.751	2.736 (1.206)	544	0.11210	39.9683(Q)			
11 Phenanthrene	178	4.236	4.221 (1.004)	5934	0.55474	197.7923			
12 Anthracene	178	4.268	4.253 (1.011)	2411	0.23245	82.8806			
15 Fluoranthene	202	5.086	5.065 (1.205)	13508	1.27750	455.4903			
16 Pyrene	202	5.246	5.226 (0.844)	11134	1.16102	413.9602(H)			
17 Benzo(a)anthracene	228	6.207	6.177 (0.998)	8426	1.03711	369.7801(H)			

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
19 Chrysene	228	6.229	6.209	(1.002)	8299		0.95801	341.5779(H)
20 Benzo(b)fluoranthene	252	7.030	6.994	(0.961)	10826		2.17250	774.6048(M)
21 Benzo(k)fluoranthene	252	7.041	7.015	(0.963)	3424		0.31333	111.7182(QMH)
22 Benzo(a)pyrene	252	7.254	7.224	(0.992)	6394		0.67254	239.7923
24 Indeno(1,2,3-cd)pyrene	276	8.002	7.972	(1.094)	3884		0.45276	161.4318(M)
25 Dibenzo(a,h)anthracene	278	8.008	7.982	(1.095)	1980		0.23288	83.0348(H)
26 Benzo(g,h,i)perylene	276	8.189	8.148	(1.120)	4702		0.54452	194.1489

#### QC Flag Legend

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

Data File: 1AC26029.D

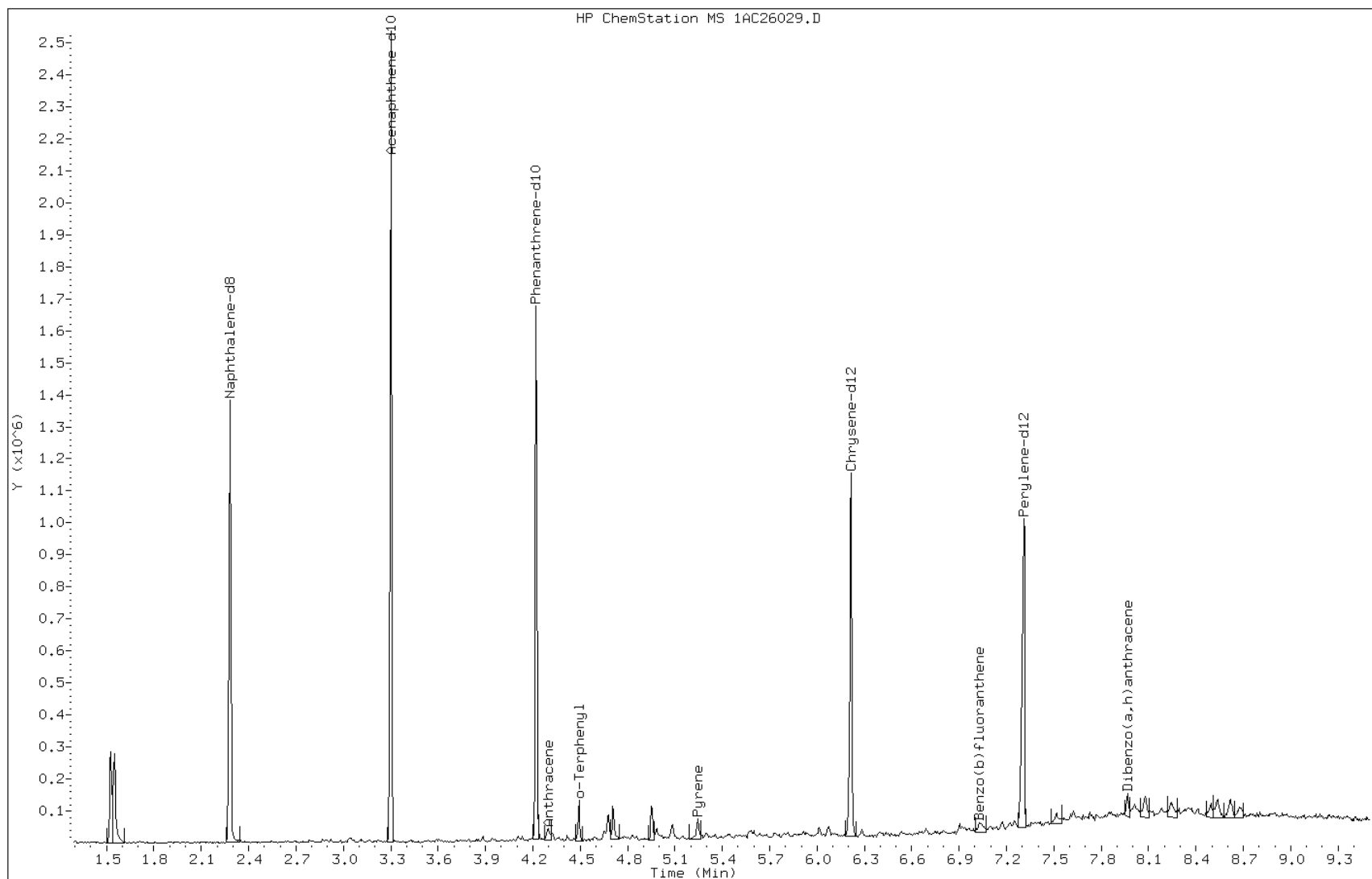
Date: 26-MAR-2013 19:54

Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

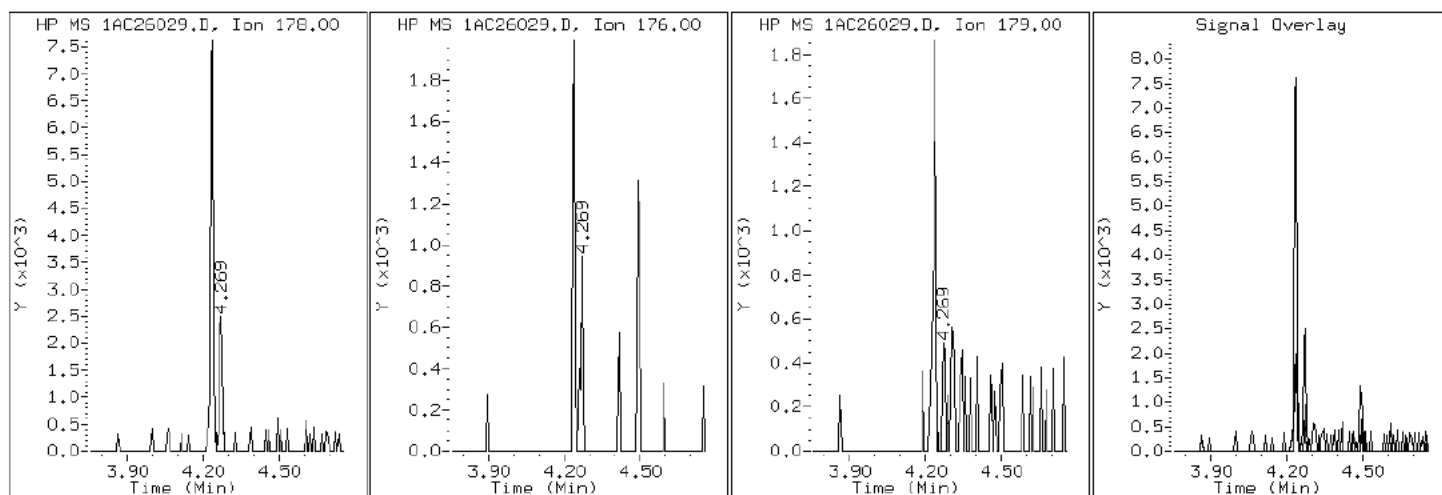
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

12 Anthracene





Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

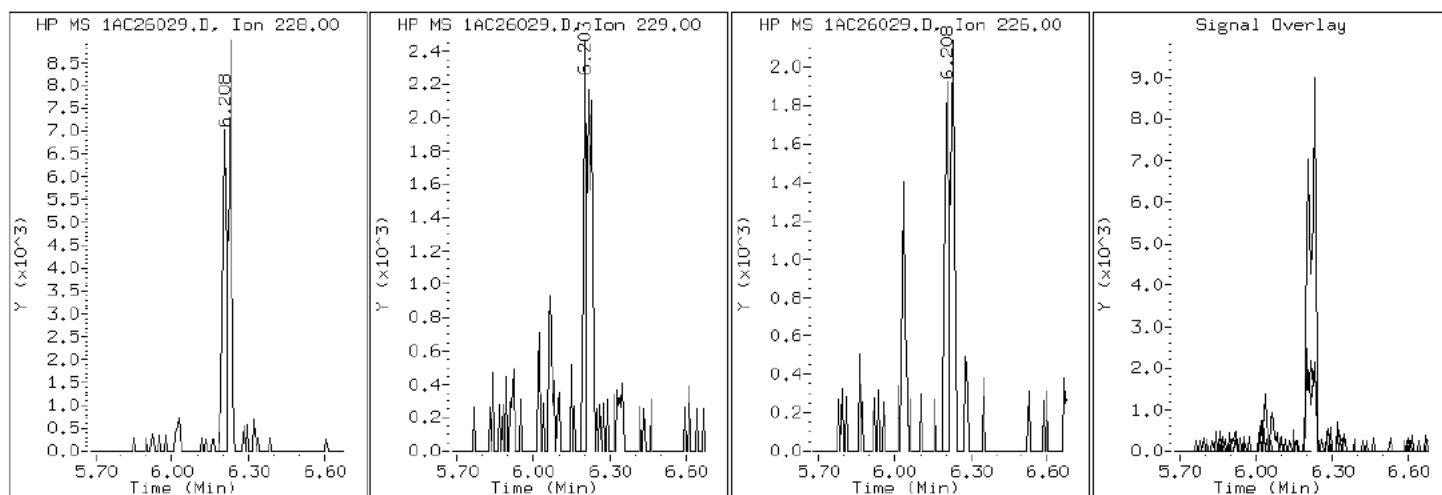
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

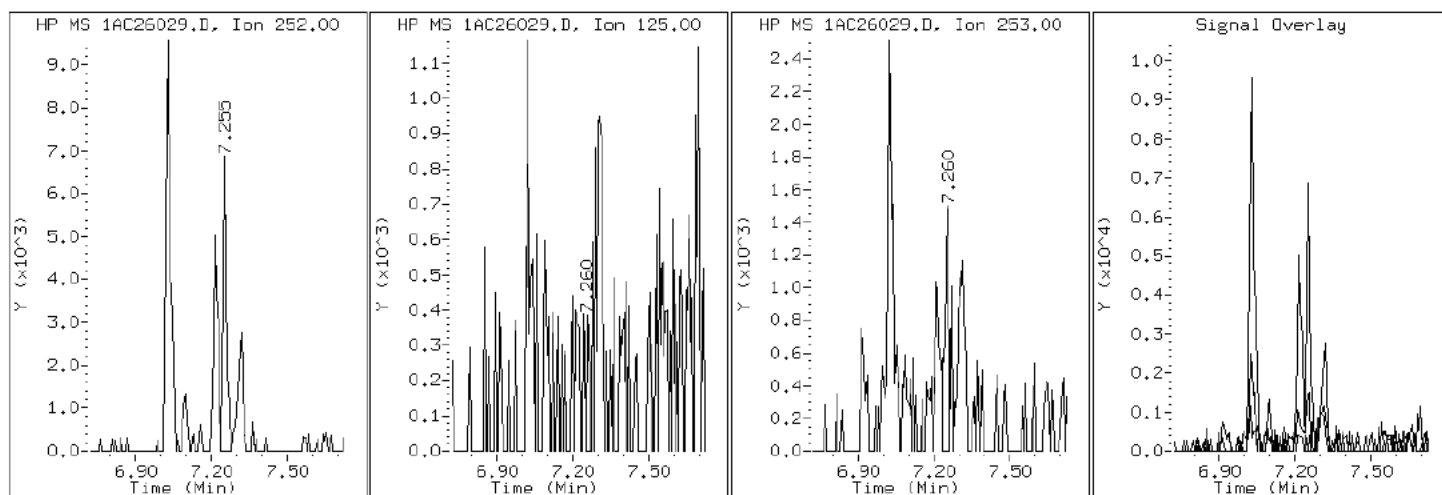
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

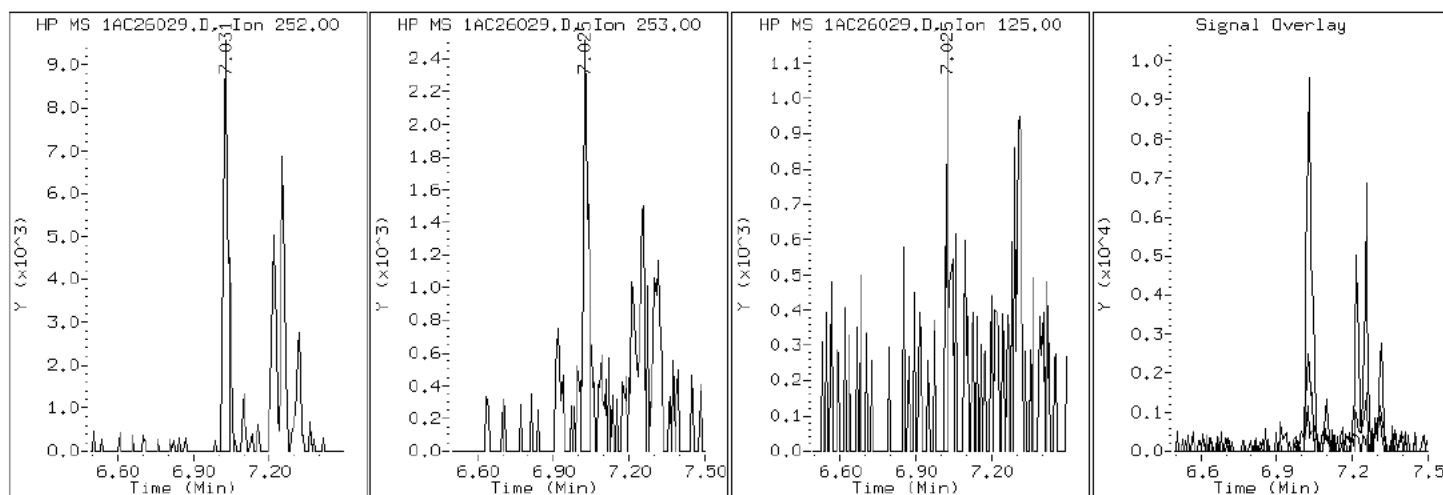
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

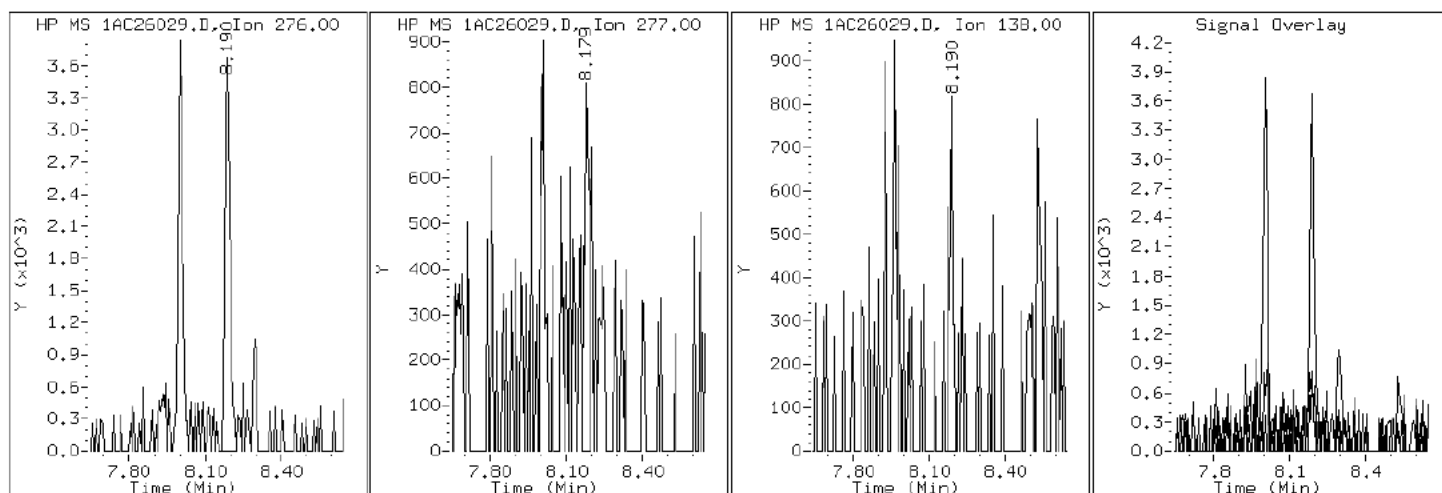
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

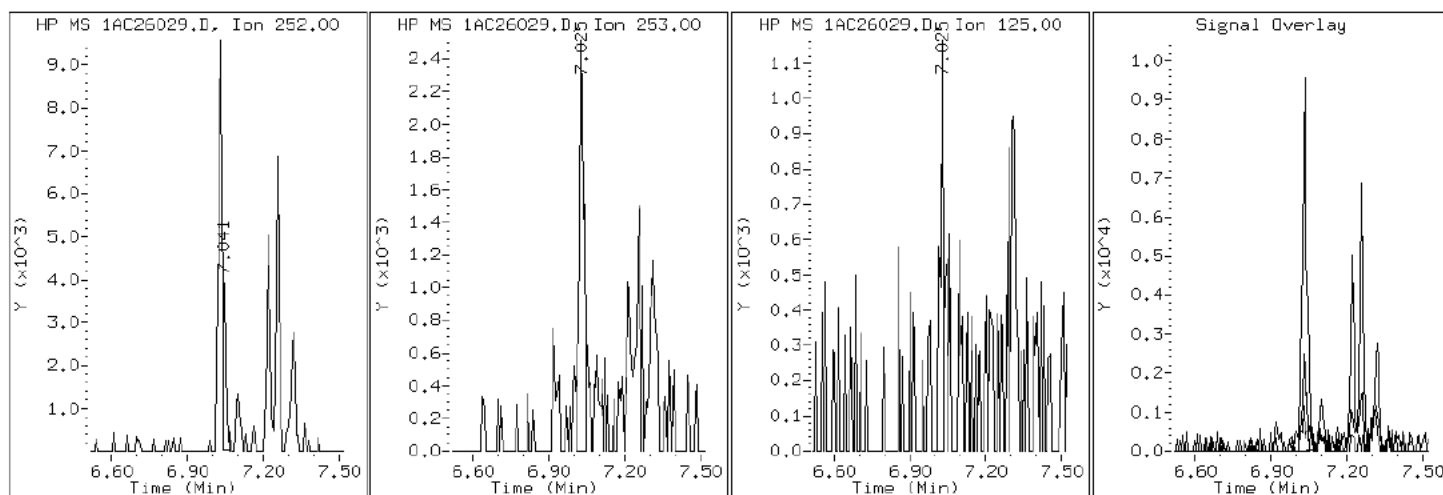
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

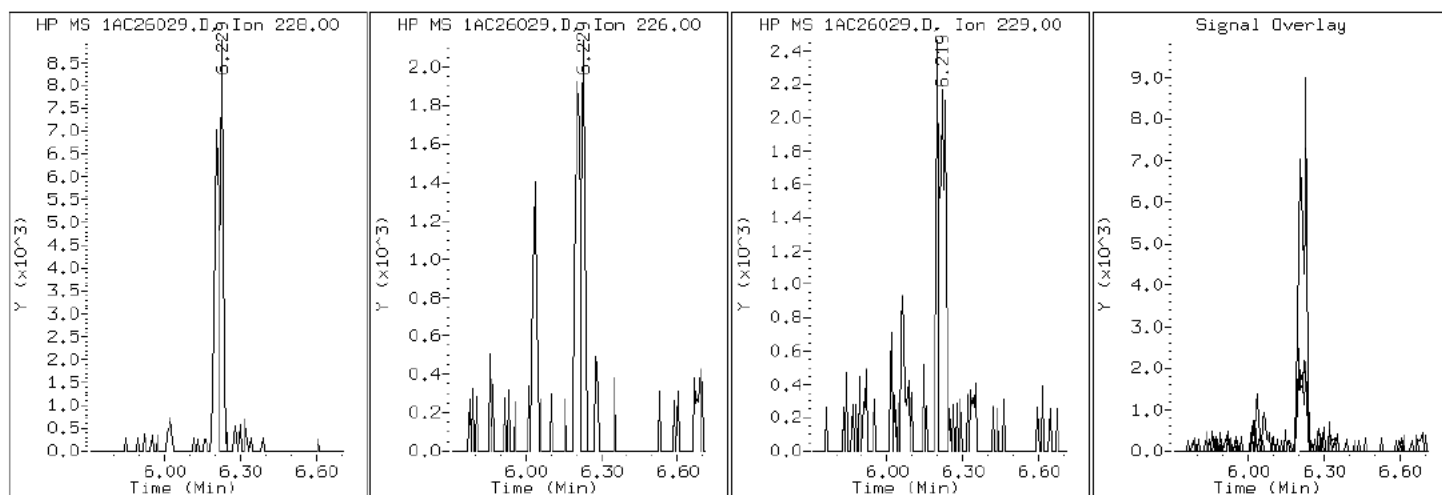
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

19 Chrysene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

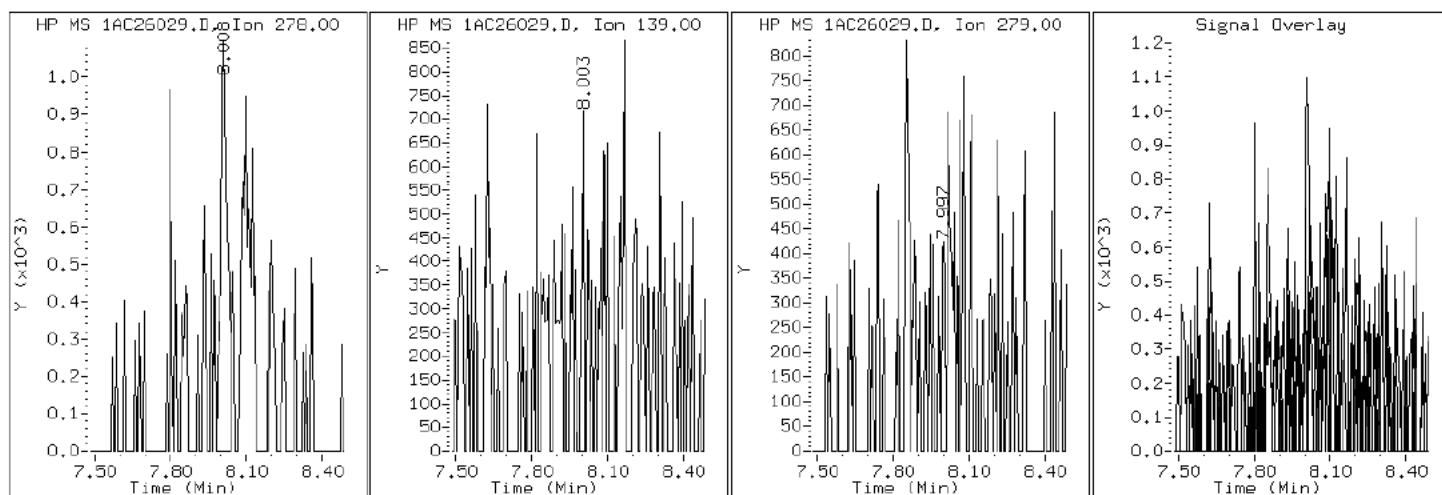
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

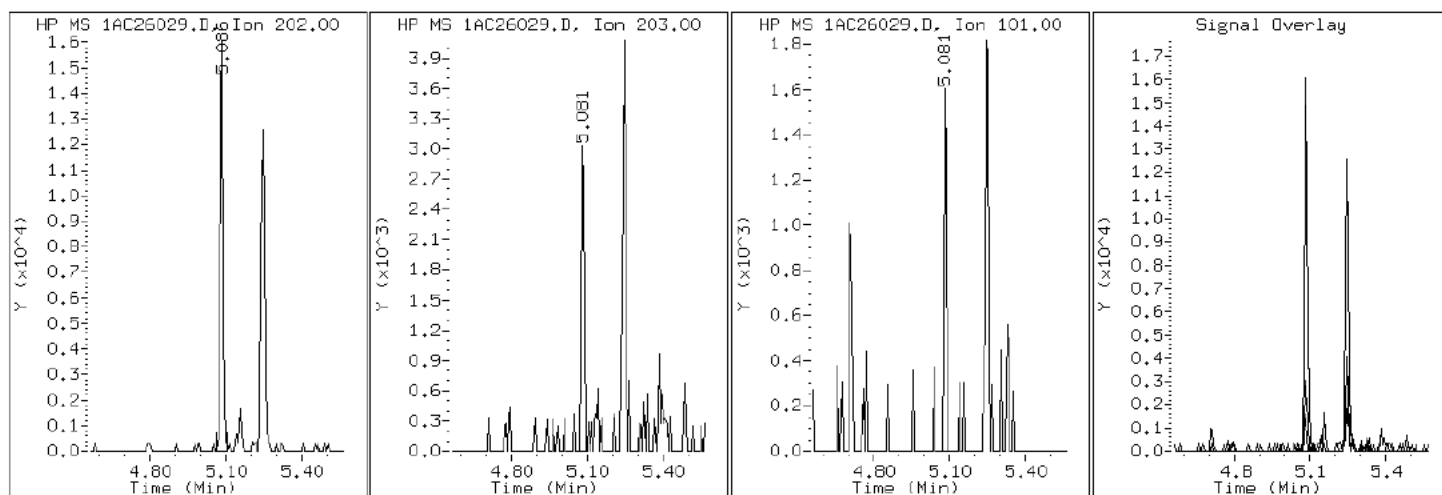
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

15 Fluoranthene





Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

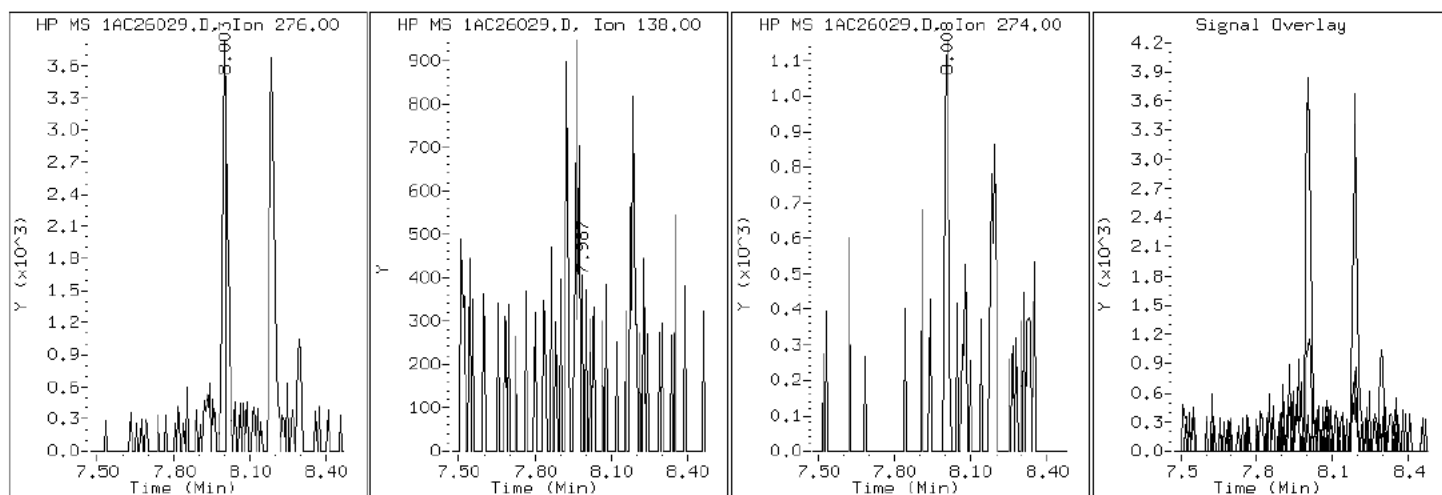
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

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



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

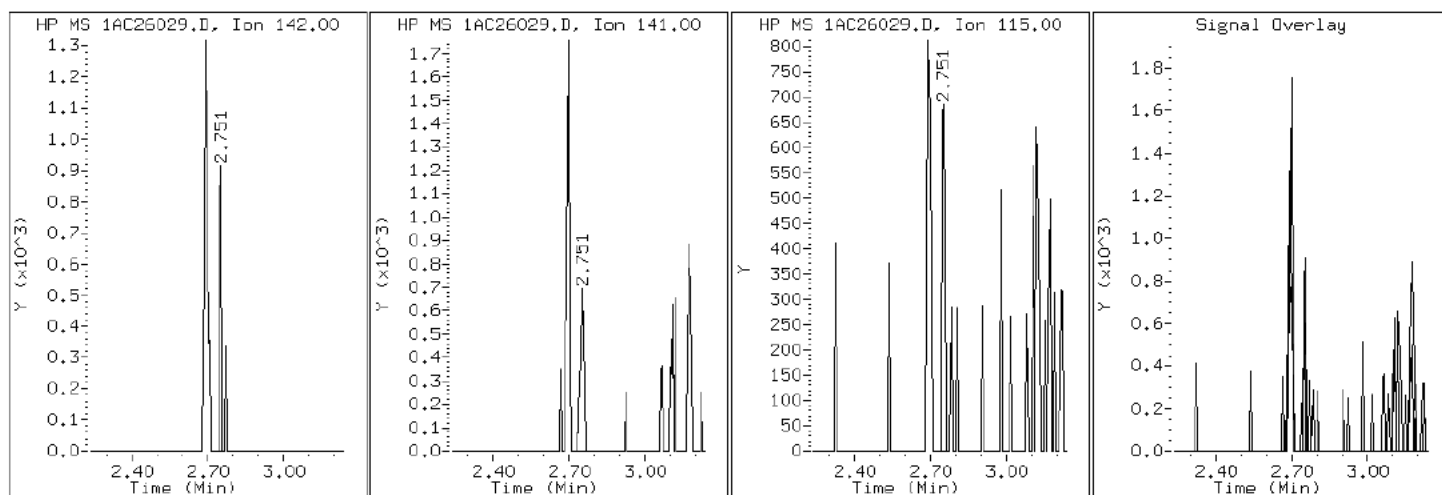
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

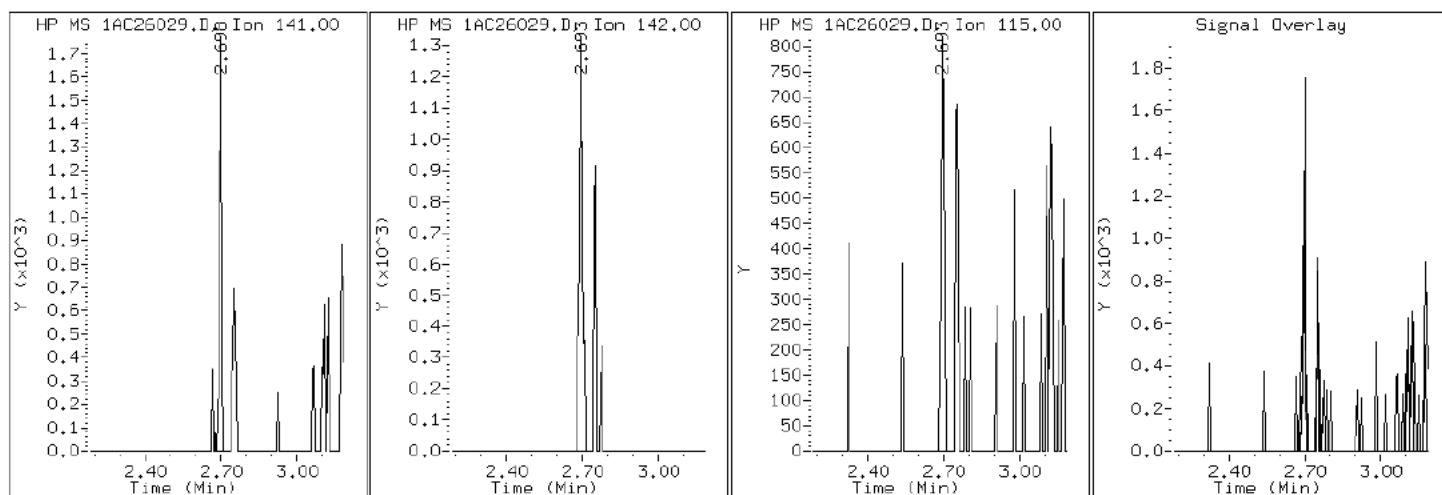
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

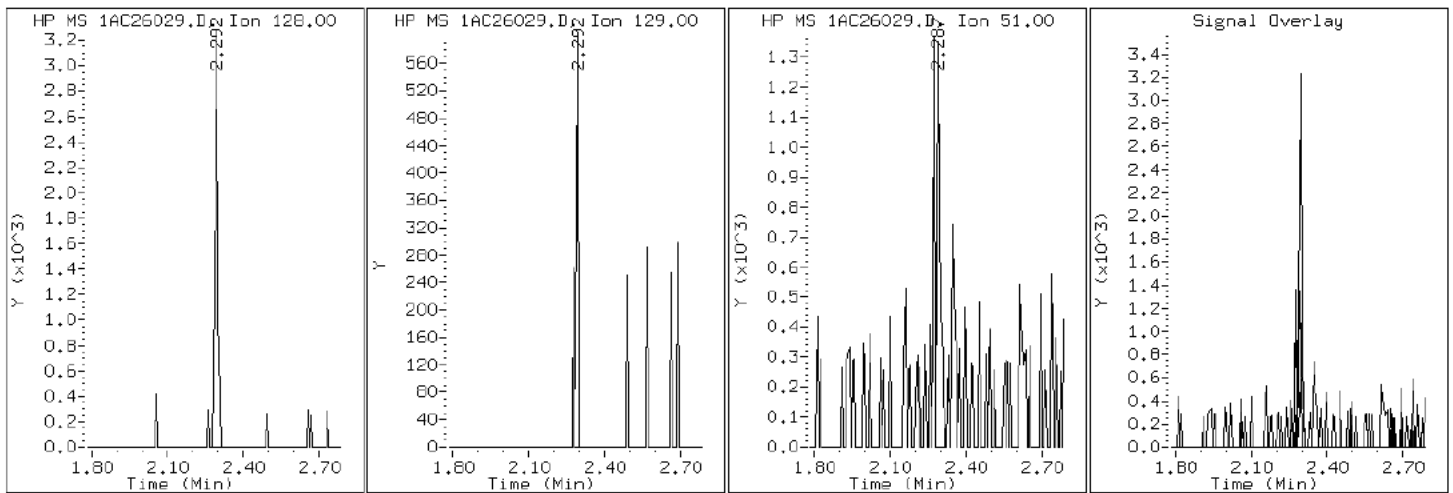
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

2 Naphthalene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

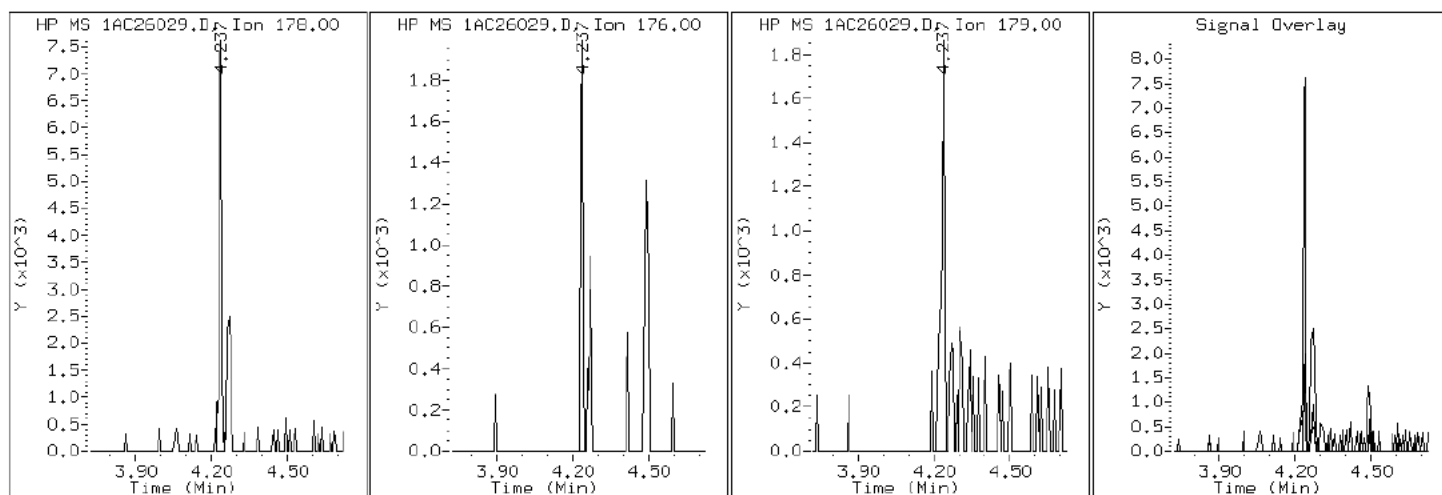
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26029.D

Date: 26-MAR-2013 19:54

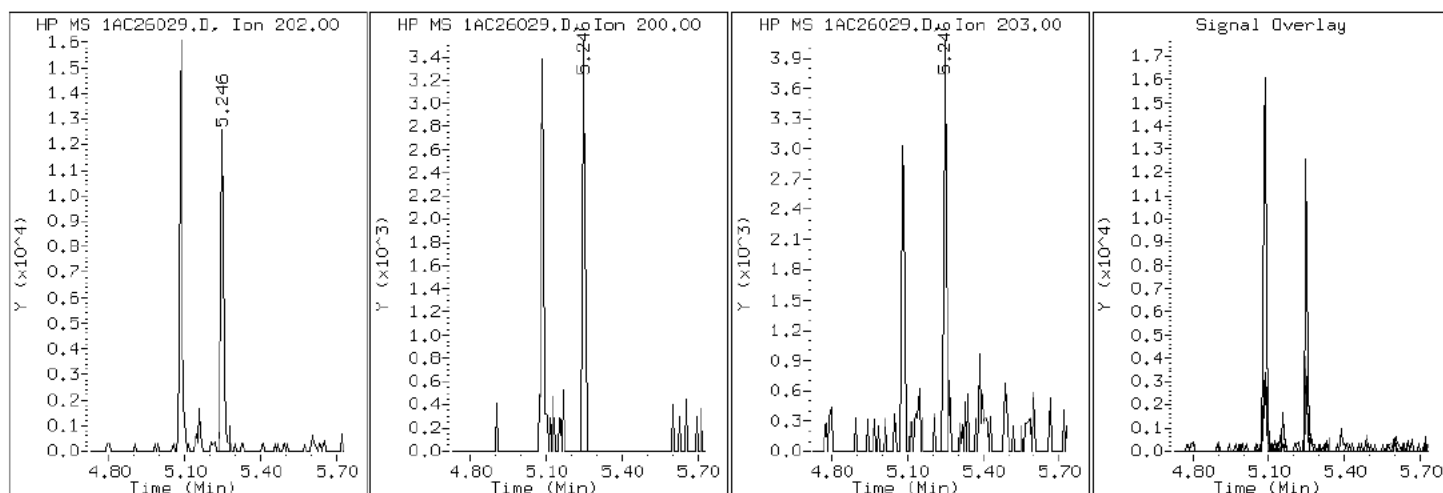
Client ID: CV1360P-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-25-A

Operator: SCC

16 Pyrene

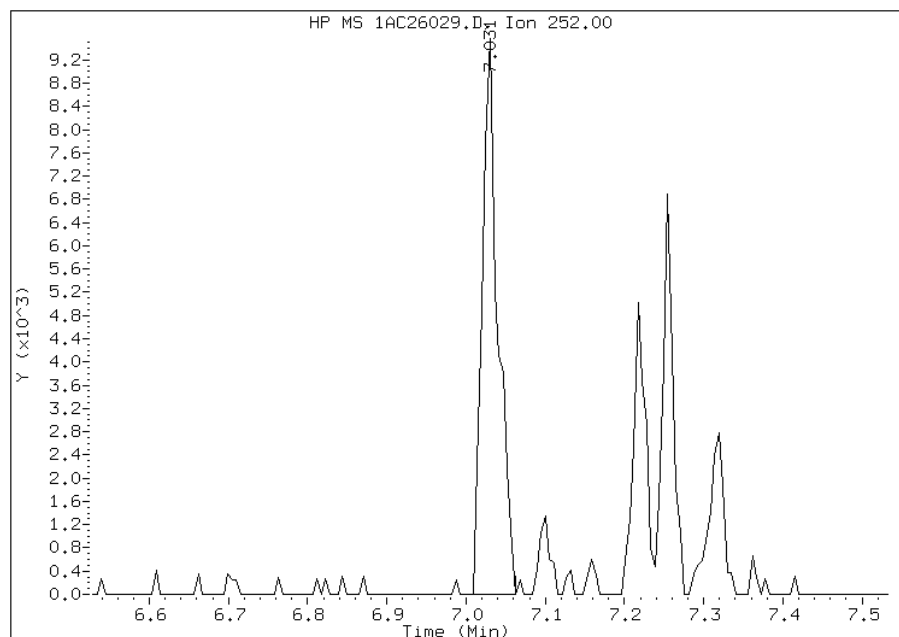


# Manual Integration Report

Data File: 1AC26029.D  
Inj. Date and Time: 26-MAR-2013 19:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360P-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

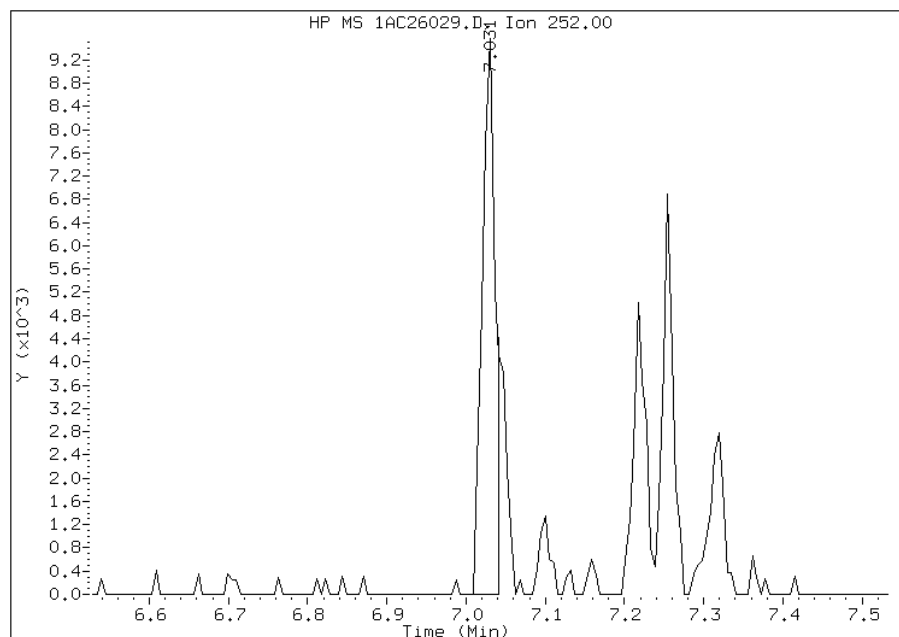
## Processing Integration Results

RT: 7.03  
Response: 13006  
Amount: 2  
Conc: 844



## Manual Integration Results

RT: 7.03  
Response: 10826  
Amount: 2  
Conc: 775



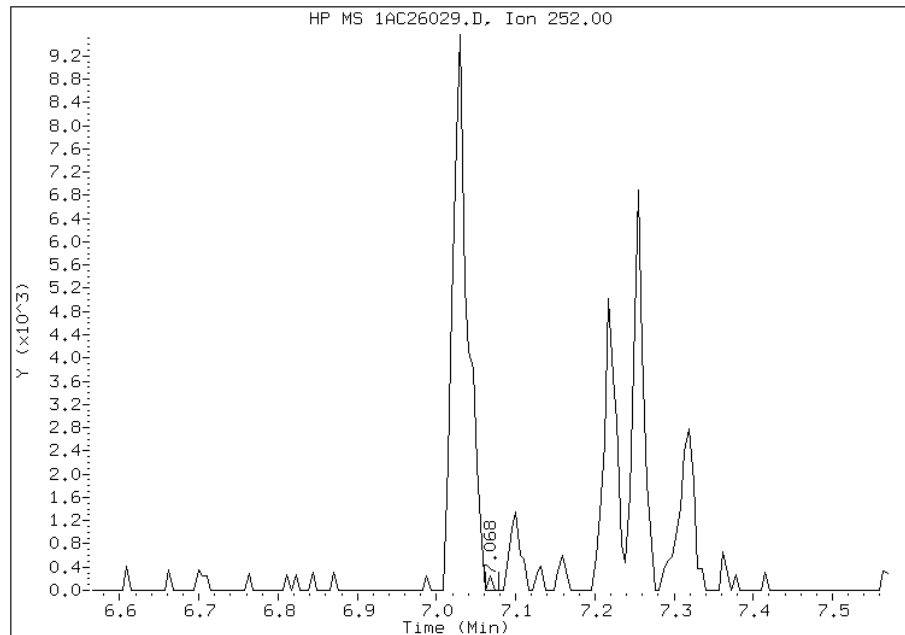
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:41  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26029.D  
Inj. Date and Time: 26-MAR-2013 19:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360P-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

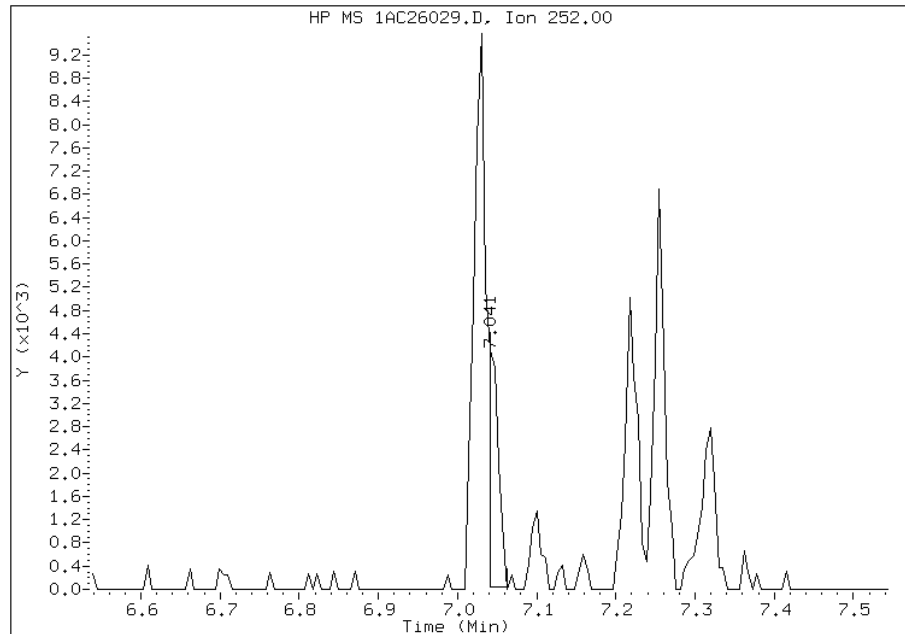
### Processing Integration Results

RT: 7.07  
Response: 81  
Amount: 0  
Conc: 3



### Manual Integration Results

RT: 7.04  
Response: 3424  
Amount: 0  
Conc: 112



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:41  
Manual Integration Reason: Baseline Event

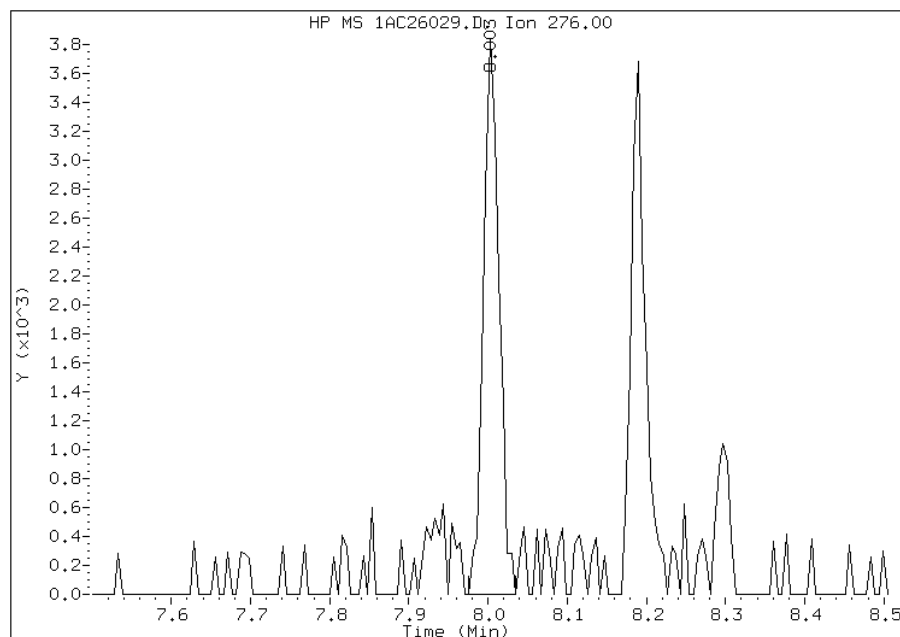


## Manual Integration Report

Data File: 1AC26029.D  
Inj. Date and Time: 26-MAR-2013 19:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360P-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

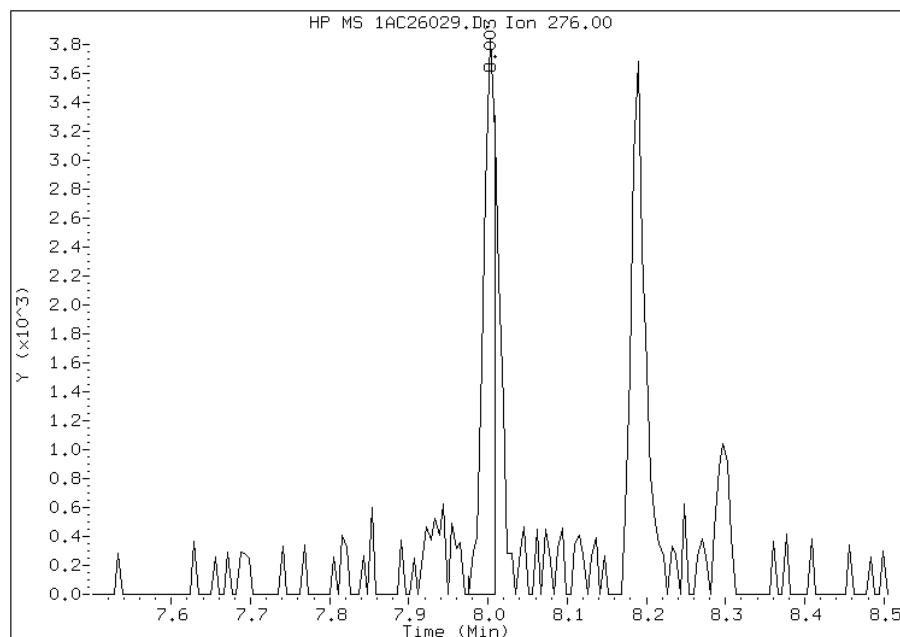
### Processing Integration Results

RT: 8.00  
Response: 5190  
Amount: 1  
Conc: 216



### Manual Integration Results

RT: 8.00  
Response: 3884  
Amount: 0  
Conc: 161



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360Q-CS</u>	Lab Sample ID: <u>680-88527-26</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.48(g)</u>	Date Analyzed: <u>03/26/2013 20:09</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>26.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	36	J	53	6.6
120-12-7	Anthracene	38		11	5.5
56-55-3	Benzo[a]anthracene	140		11	5.1
50-32-8	Benzo[a]pyrene	100		14	6.8
205-99-2	Benzo[b]fluoranthene	250		16	8.0
191-24-2	Benzo[g,h,i]perylene	65		26	5.8
207-08-9	Benzo[k]fluoranthene	69		11	4.7
218-01-9	Chrysene	140		12	5.9
53-70-3	Dibenz(a,h)anthracene	20	J	26	5.4
206-44-0	Fluoranthene	220		26	5.3
86-73-7	Fluorene	26	U	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	70		26	9.4
90-12-0	1-Methylnaphthalene	15	J	53	5.8
91-57-6	2-Methylnaphthalene	100		53	9.4
91-20-3	Naphthalene	34	J	53	5.8
85-01-8	Phenanthrene	95		11	5.1
129-00-0	Pyrene	200		26	4.9

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

## TestAmerica Laboratories

Semivolatile 8270C low level PAH

```
Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26030.D
Lab Smp Id: 680-88527-A-26-A                      Client Smp ID: CV1360Q-CS
Inj Date  : 26-MAR-2013 20:09
Operator  : SCC                                      Inst ID: BSMA5973.i
Smp Info  : 680-88527-A-26-A
Misc Info : 680-88527-A-26-A
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1a-bFASTPAHi-m.m
Meth Date : 26-Mar-2013 11:39 cantins               Quant Type: ISTD
Cal Date  : 15-MAR-2013 14:25                      Cal File: 1AC15009.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE                                  Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000
```

Concentration Formula:

Amt \* DF \* 1/Vi \* Vt/WS \* 100/(100 - M) \* A \* B \* C \* D \* GPC \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.480	Weight Extracted
M	26.424	% 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
Compd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT SIG				ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.279	2.272	(1.000)	489070	40.0000	
*	6 Acenaphthene-d10	164	3.299	3.287	(1.000)	362874	40.0000	
*	10 Phenanthrene-d10	188	4.223	4.205	(1.000)	537058	40.0000	
\$	14 o-Terphenyl	230	4.496	4.478	(1.065)	52519	7.44991	654.0965
*	18 Chrysene-d12	240	6.221	6.193	(1.000)	441544	40.0000	(H)
*	23 Perylene-d12	264	7.316	7.272	(1.000)	516592	40.0000	
	2 Naphthalene	128	2.289	2.282	(1.005)	4368	0.38658	33.9412(Q)
	3 2-Methylnaphthalene	141	2.690	2.683	(1.180)	1824	1.14404	100.4454
	4 1-Methylnaphthalene	142	2.743	2.736	(1.204)	1129	0.17377	15.2565
	5 Acenaphthylene	152	3.214	3.201	(0.974)	3171	0.41092	36.0783
	11 Phenanthrene	178	4.234	4.221	(1.003)	14714	1.08099	94.9102
	12 Anthracene	178	4.271	4.253	(1.011)	5717	0.43317	38.0315
	13 Carbazole	167	4.432	4.408	(1.049)	2697	0.23314	20.4699
	15 Fluoranthene	202	5.083	5.065	(1.204)	33325	2.47678	217.4596

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
16 Pyrene	202	5.249	5.226	(0.844)	28808		2.27550	199.7871(H)
17 Benzo(a)anthracene	228	6.216	6.177	(0.999)	18762		1.63367	143.4348(H)
19 Chrysene	228	6.232	6.209	(1.002)	18717		1.63665	143.6968(H)
20 Benzo(b)fluoranthene	252	7.028	6.994	(0.961)	23886		2.88071	252.9242(M)
21 Benzo(k)fluoranthene	252	7.044	7.015	(0.963)	11000		0.78940	69.3088(QM)
22 Benzo(a)pyrene	252	7.258	7.224	(0.992)	13801		1.13838	99.9490
24 Indeno(1,2,3-cd)pyrene	276	8.011	7.972	(1.095)	8741		0.79907	70.1578(M)
25 Dibenzo(a,h)anthracene	278	8.016	7.982	(1.096)	2526		0.23299	20.4566(H)
26 Benzo(g,h,i)perylene	276	8.198	8.148	(1.120)	8163		0.74134	65.0889

#### QC Flag Legend

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

Data File: 1AC26030.D

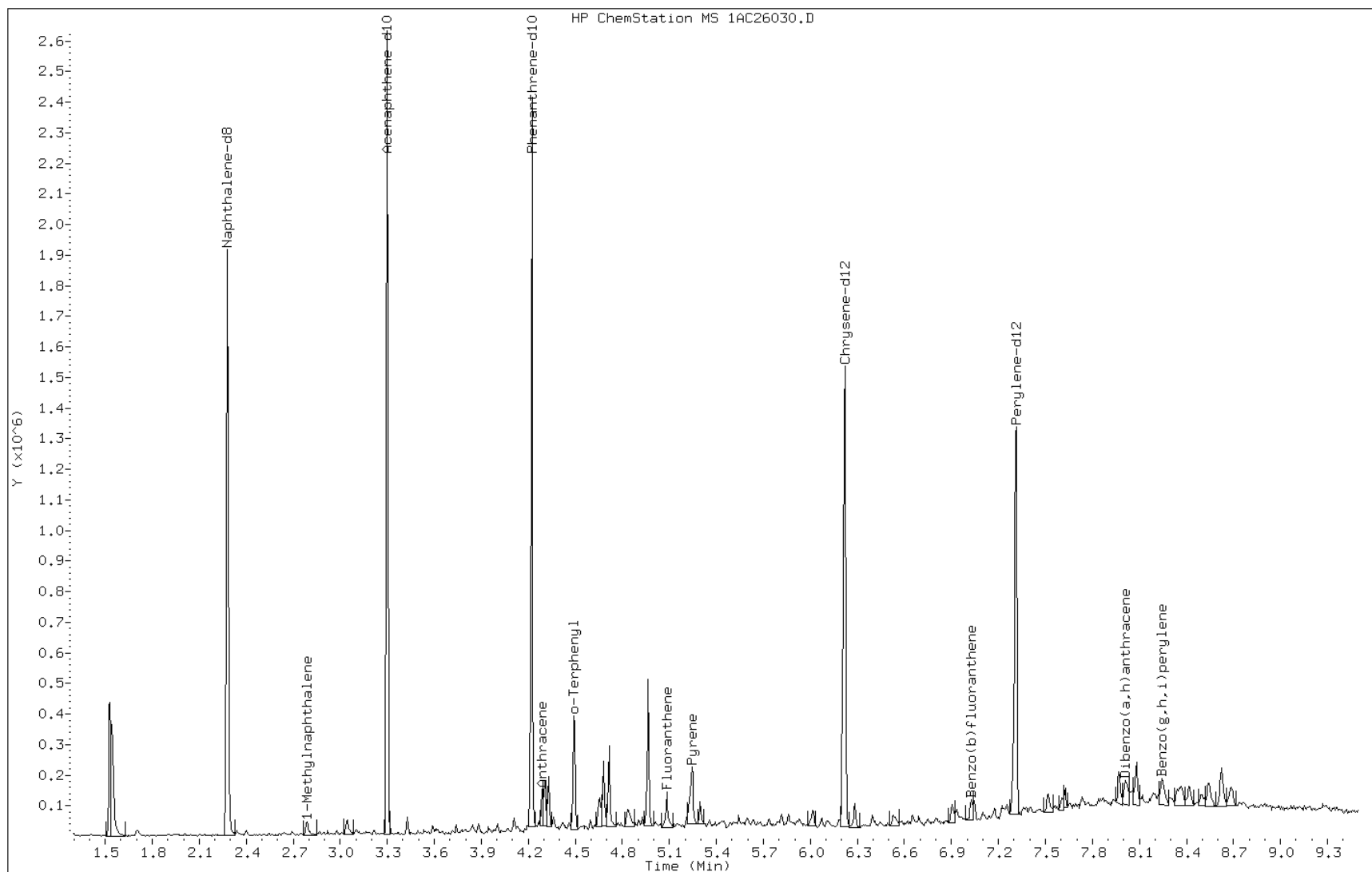
Date: 26-MAR-2013 20:09

Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

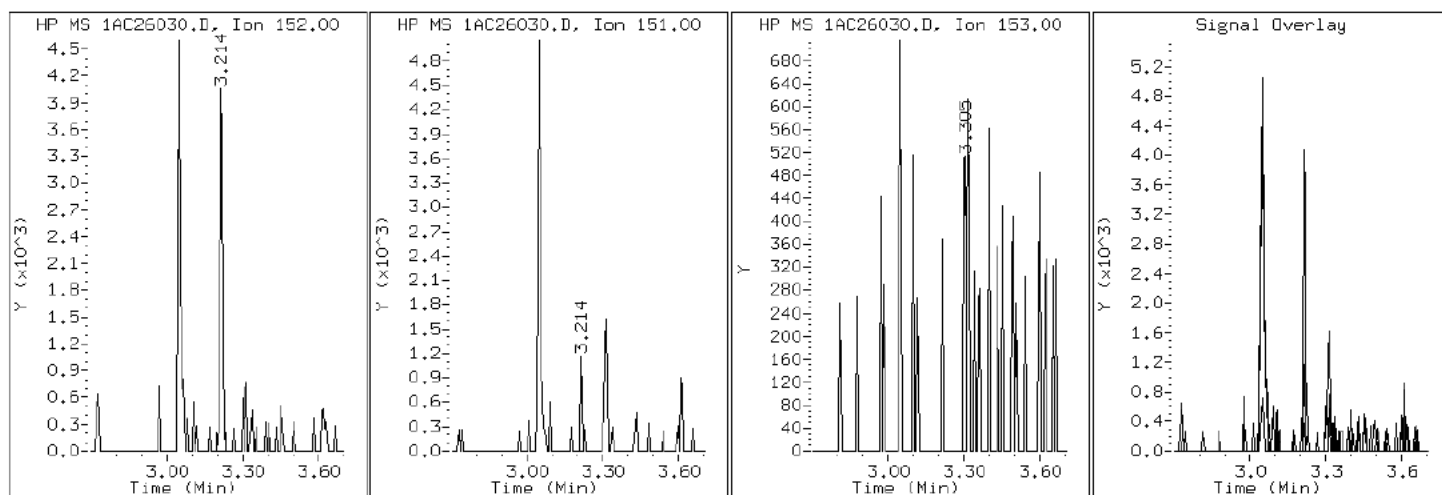
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

5 Acenaphthylene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

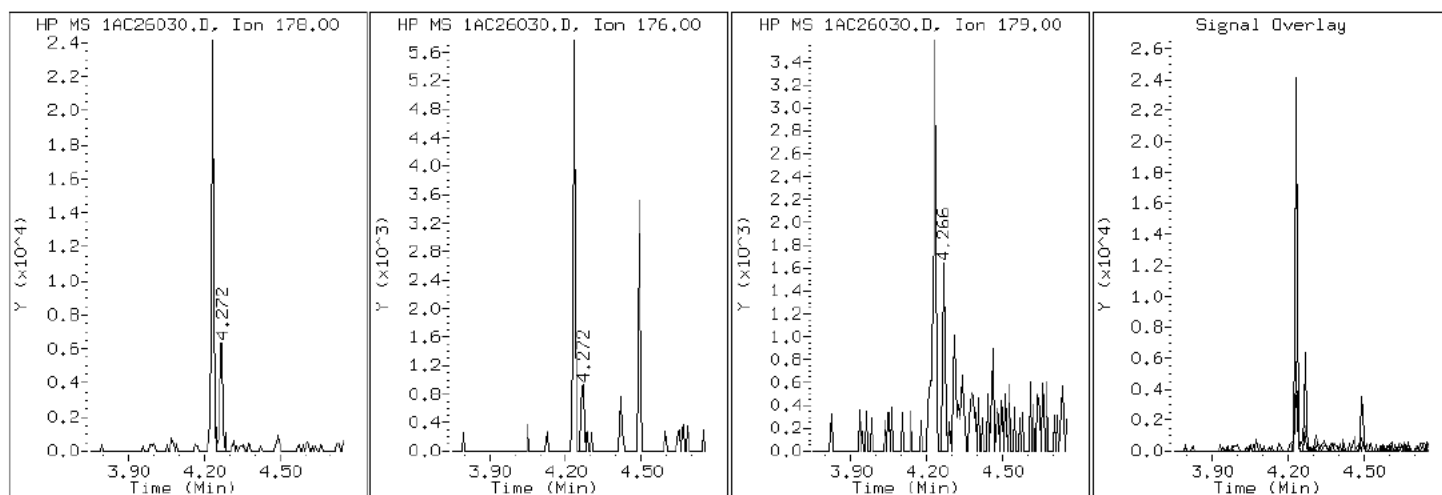
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

12 Anthracene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

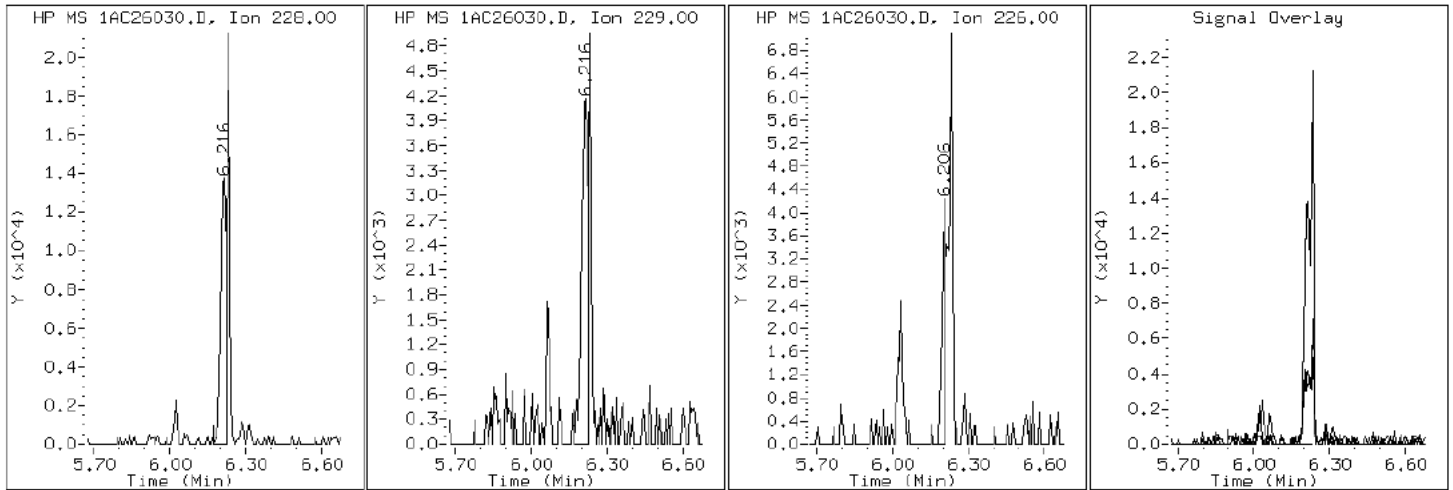
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

17 Benzo(a)anthracene





Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

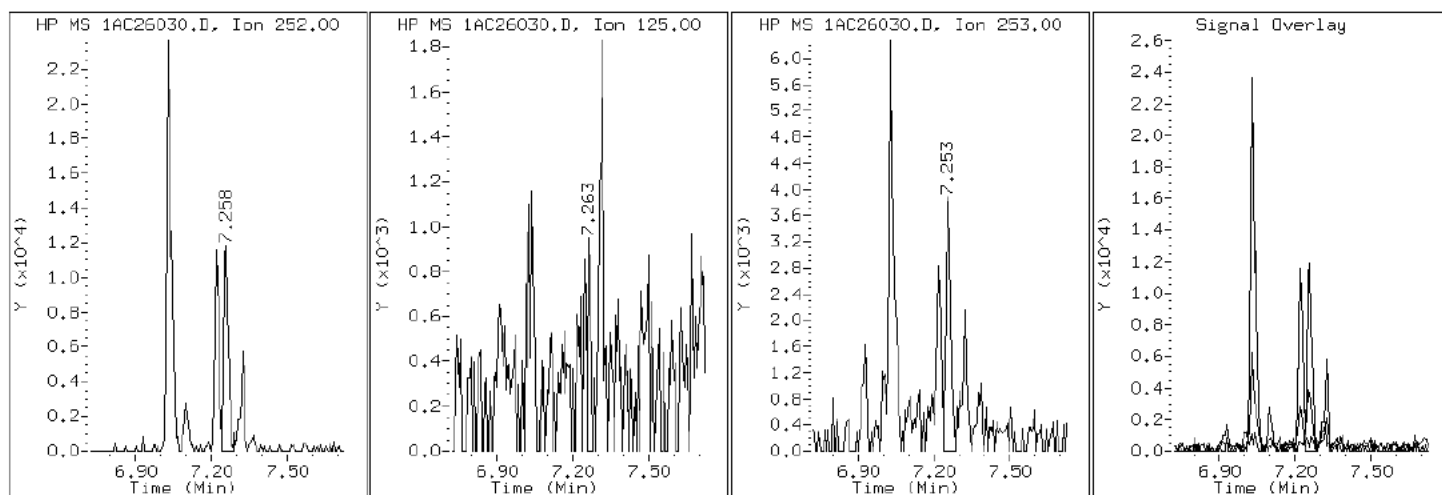
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

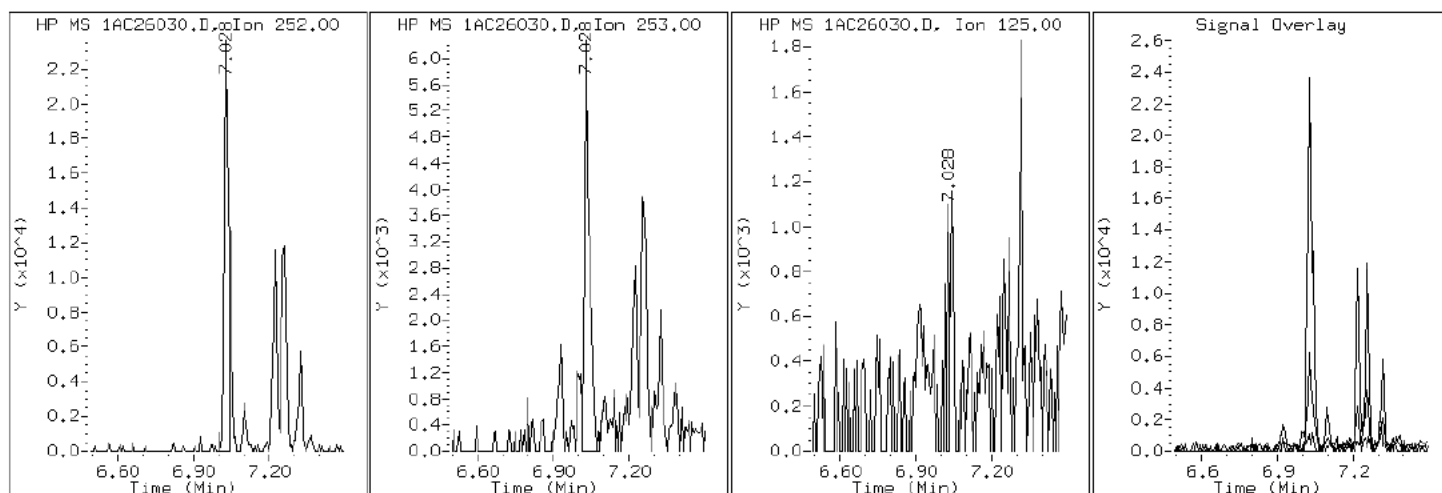
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

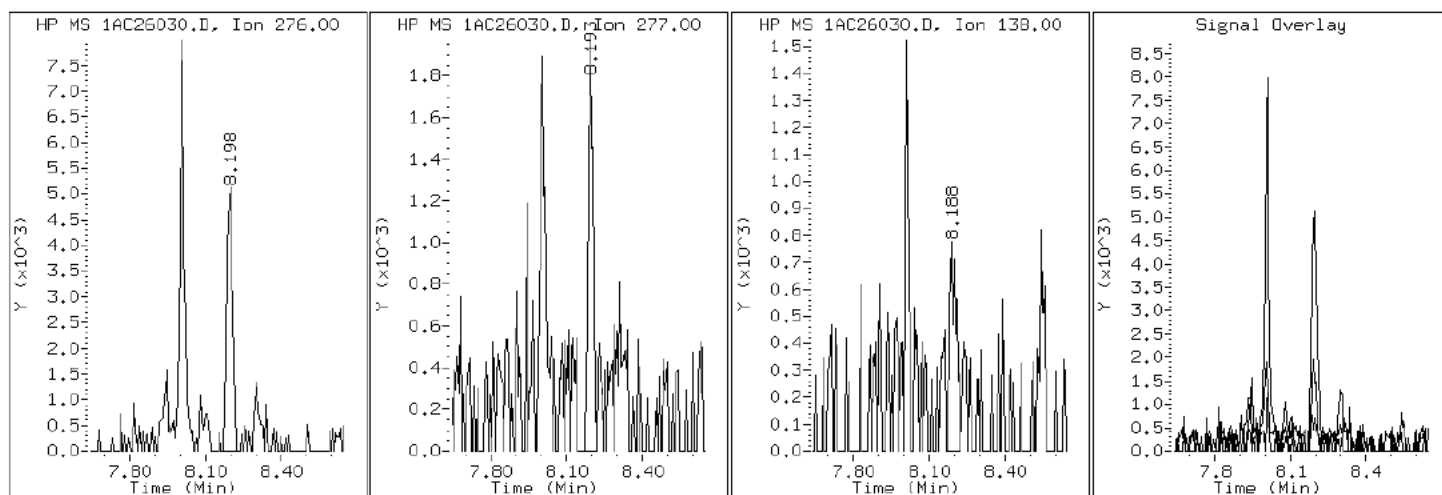
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

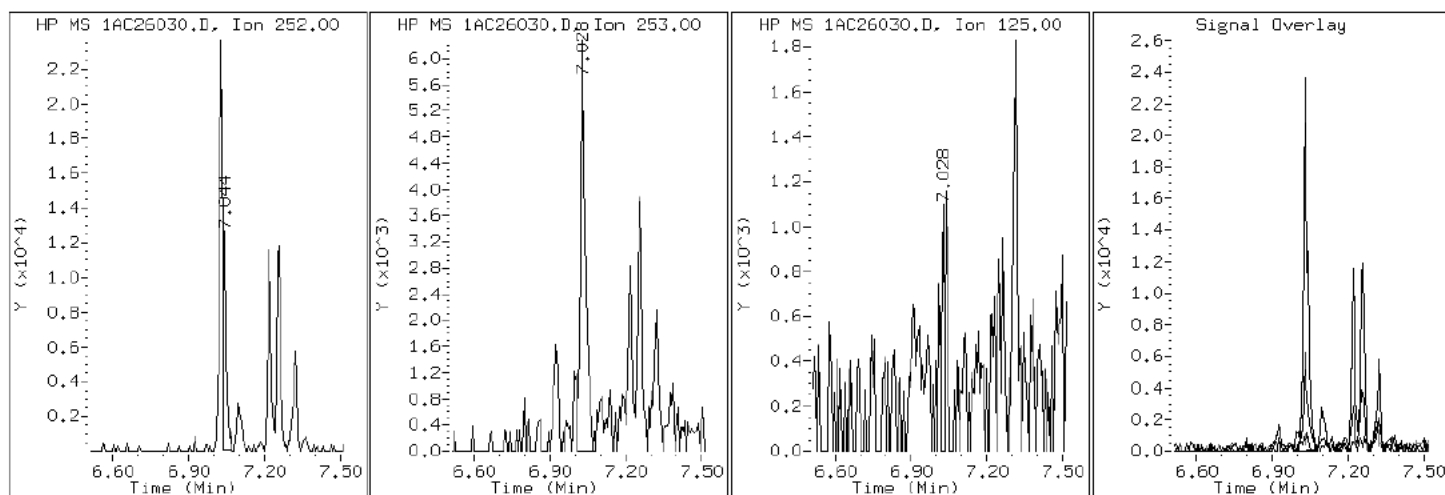
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

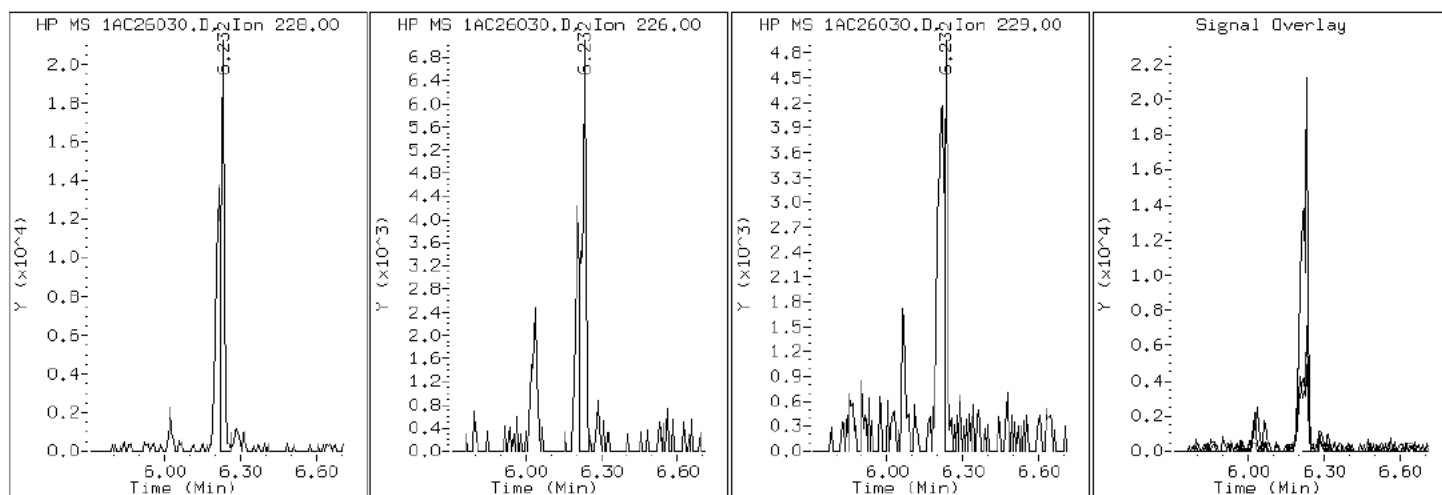
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

19 Chrysene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

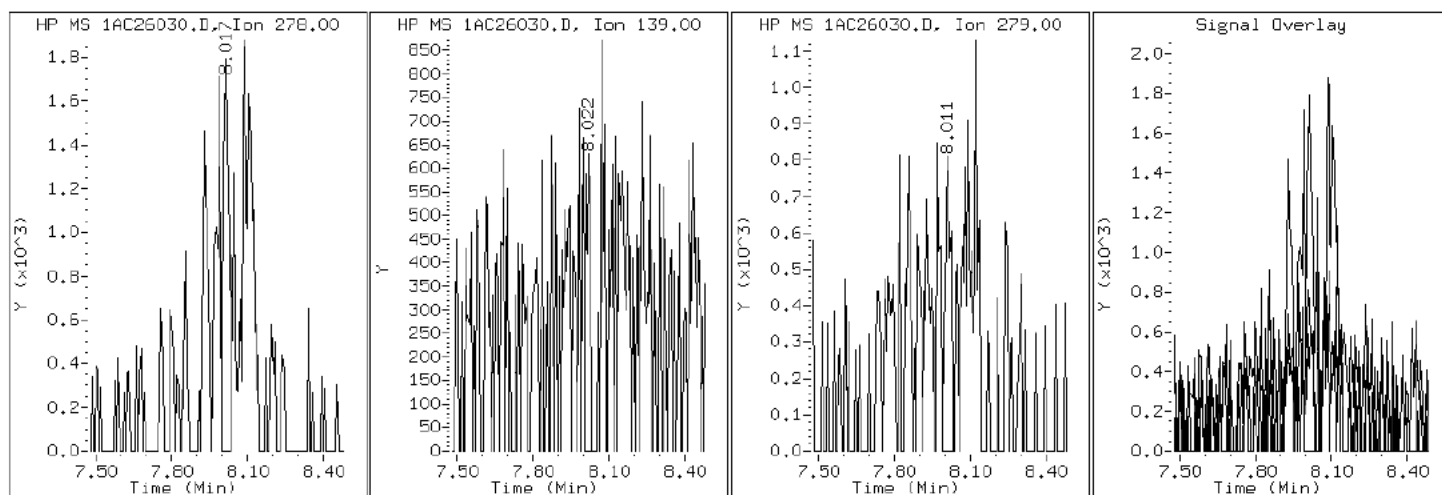
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

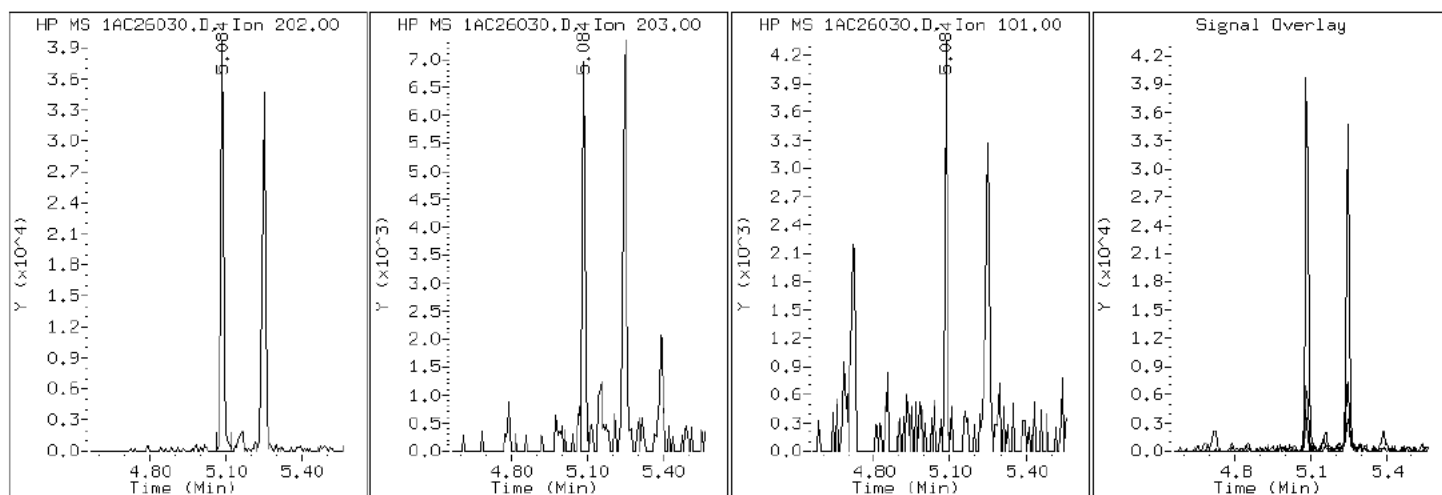
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

15 Fluoranthene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

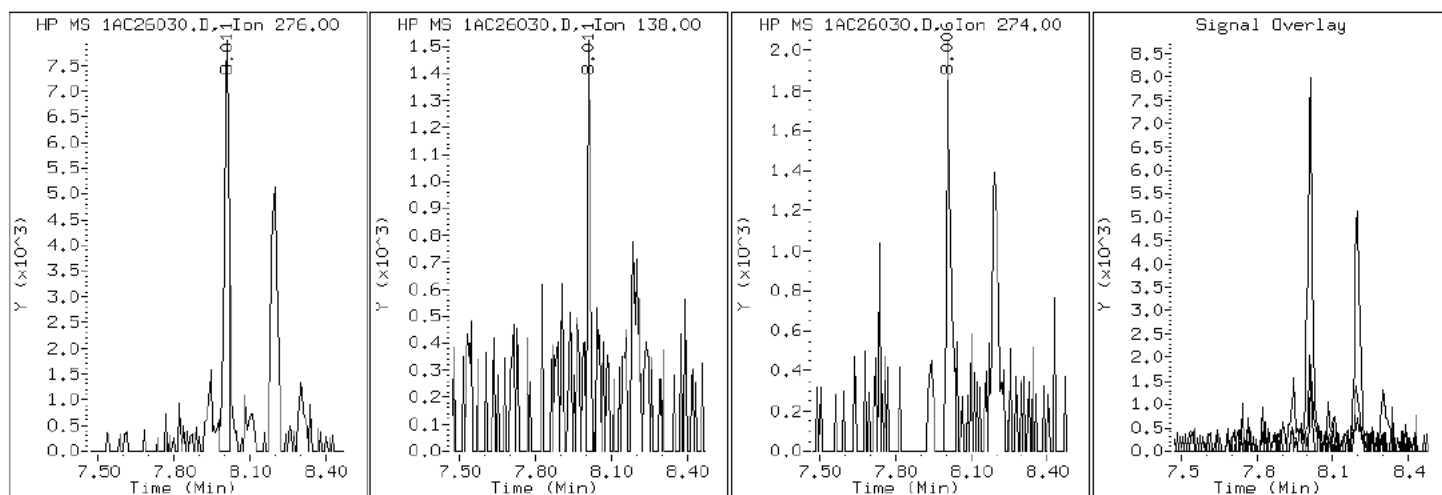
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

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





Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

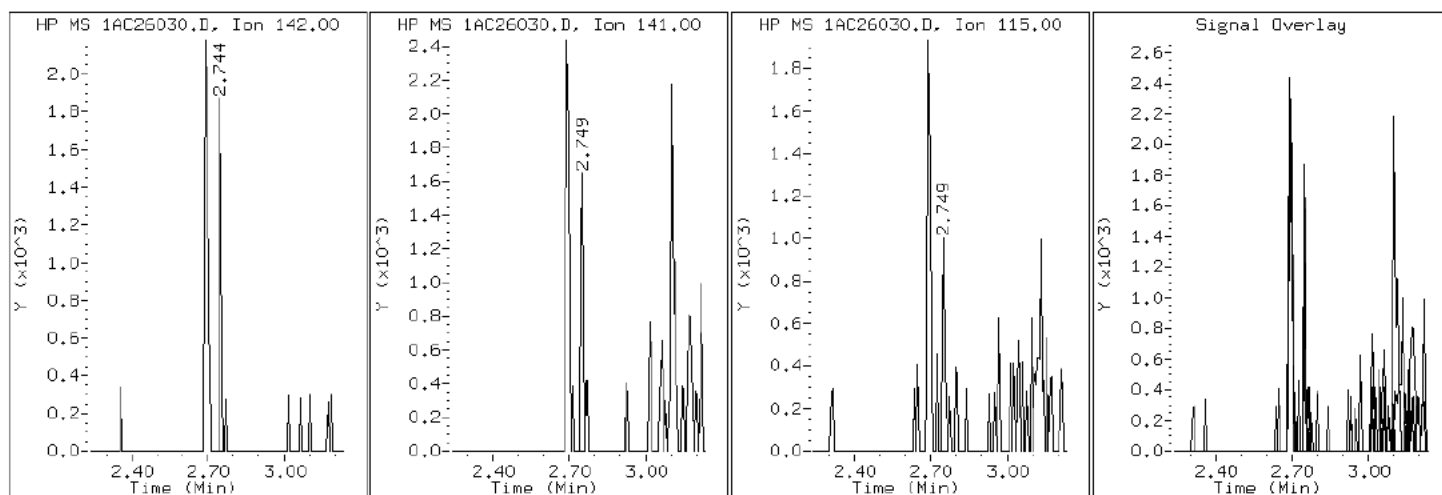
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

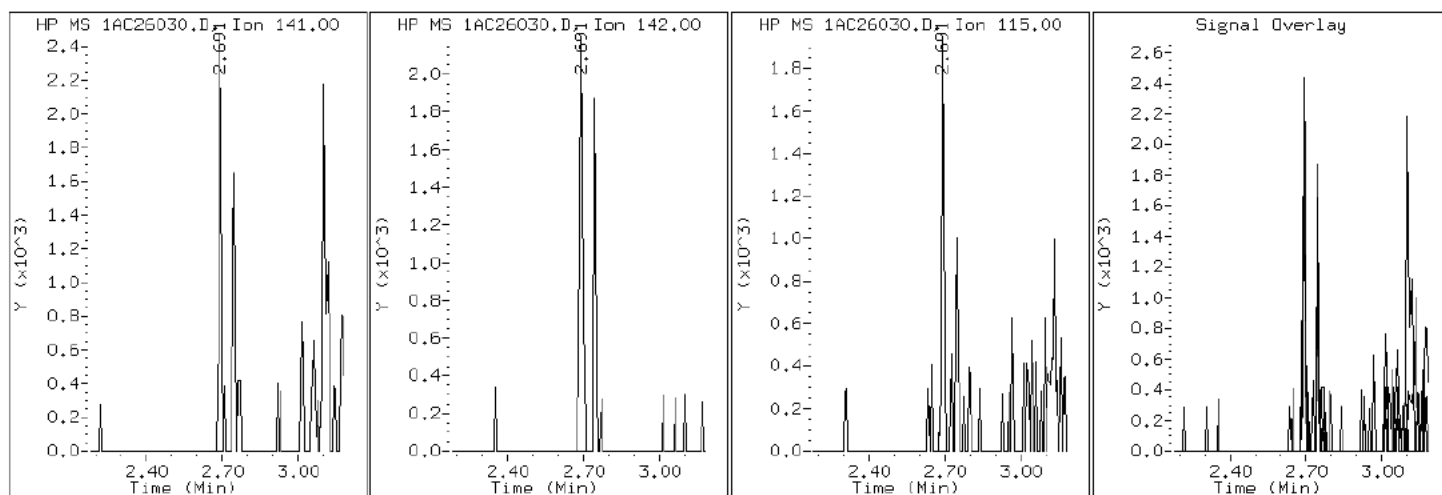
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

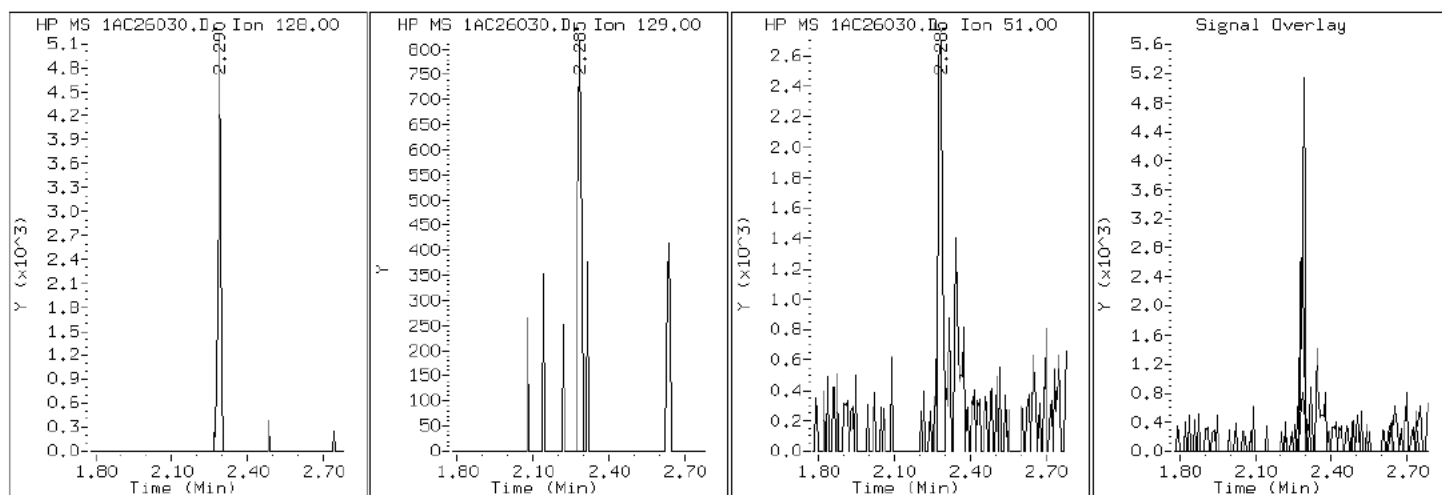
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

## 2 Naphthalene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

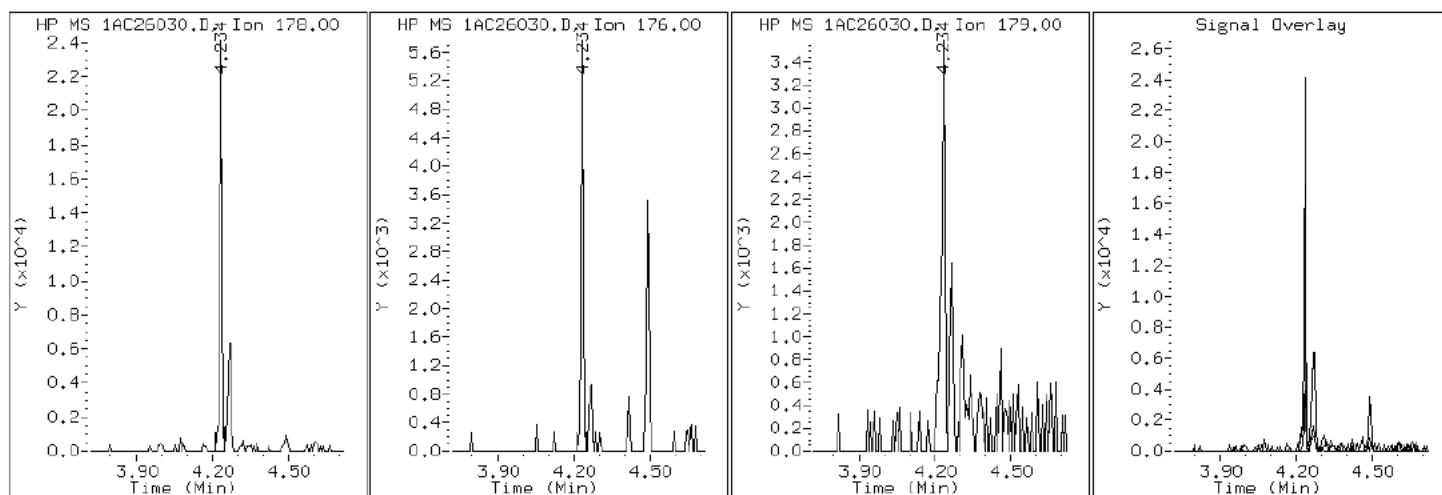
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26030.D

Date: 26-MAR-2013 20:09

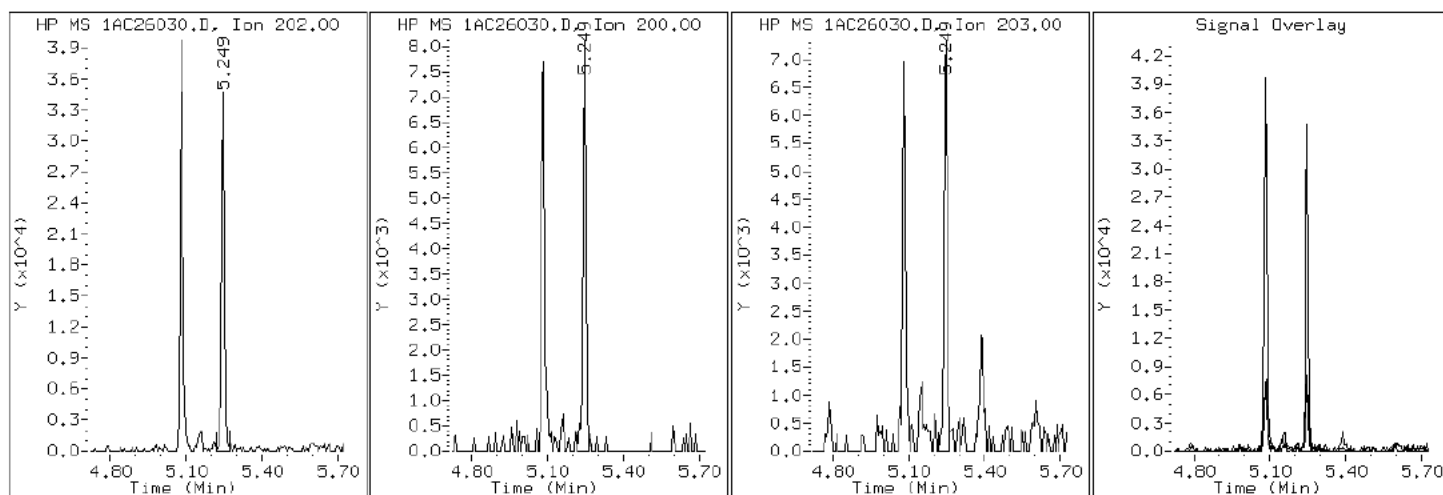
Client ID: CV1360Q-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-26-A

Operator: SCC

16 Pyrene

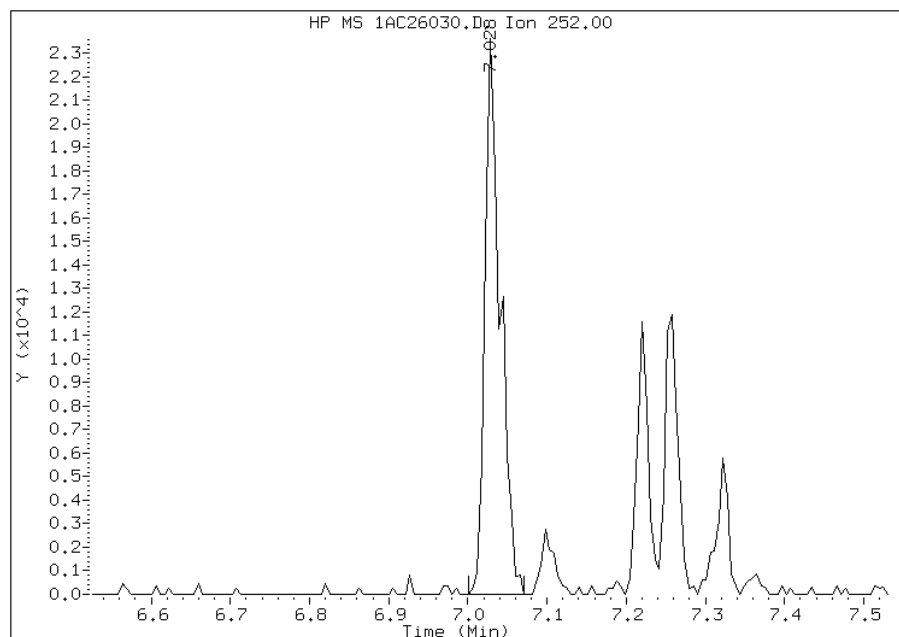


## Manual Integration Report

Data File: 1AC26030.D  
Inj. Date and Time: 26-MAR-2013 20:09  
Instrument ID: BSMA5973.i  
Client ID: CV1360Q-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

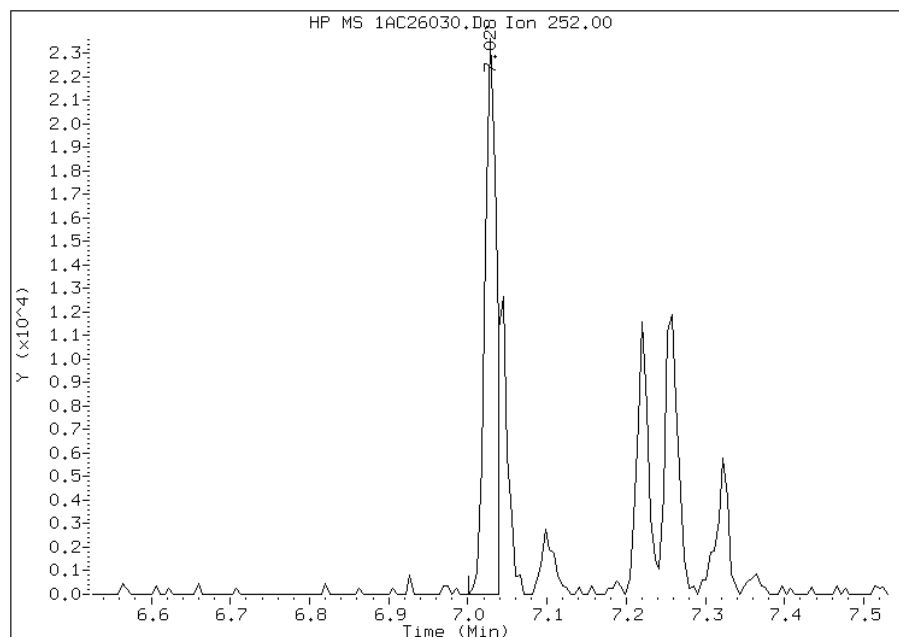
### Processing Integration Results

RT: 7.03  
Response: 31385  
Amount: 3  
Conc: 299



### Manual Integration Results

RT: 7.03  
Response: 23886  
Amount: 3  
Conc: 253



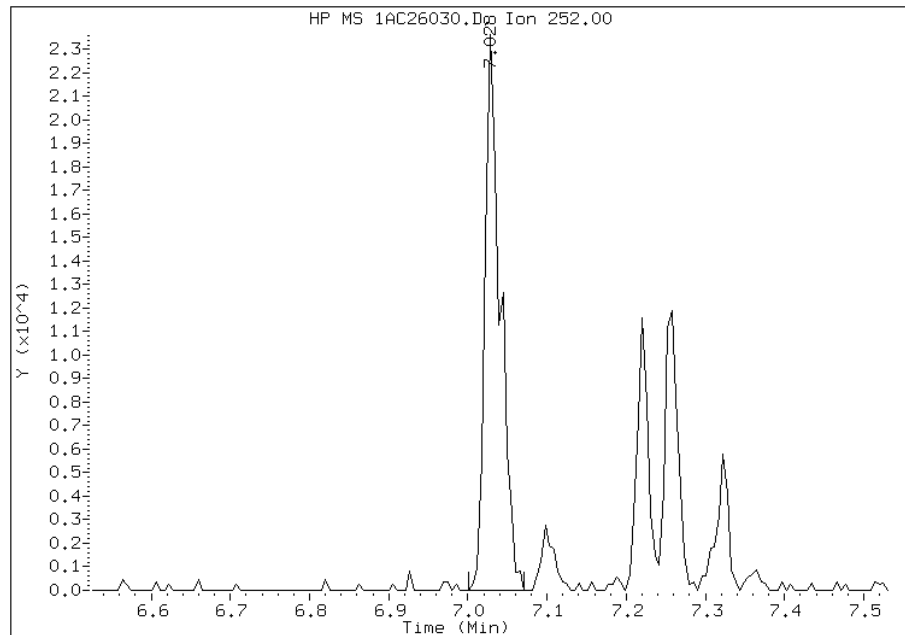
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:43  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26030.D  
Inj. Date and Time: 26-MAR-2013 20:09  
Instrument ID: BSMA5973.i  
Client ID: CV1360Q-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

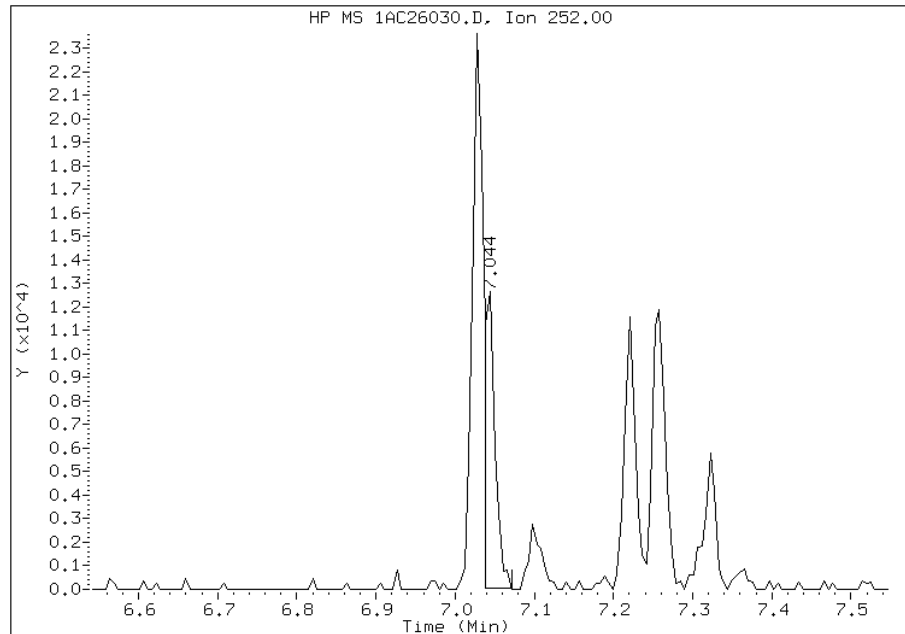
### Processing Integration Results

RT: 7.03  
Response: 31385  
Amount: 2  
Conc: 198



### Manual Integration Results

RT: 7.04  
Response: 11000  
Amount: 1  
Conc: 69



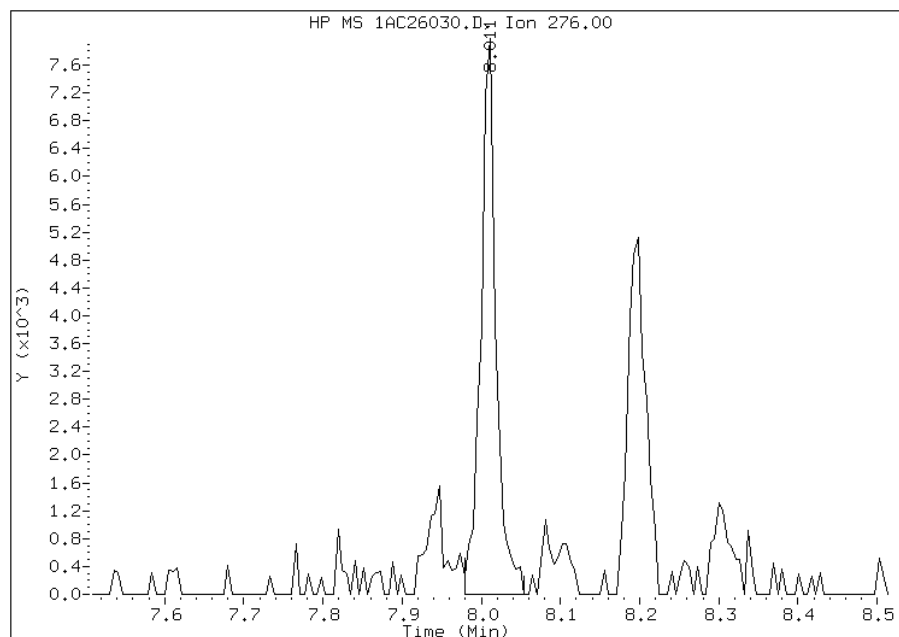
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:43  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC26030.D  
Inj. Date and Time: 26-MAR-2013 20:09  
Instrument ID: BSMA5973.i  
Client ID: CV1360Q-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

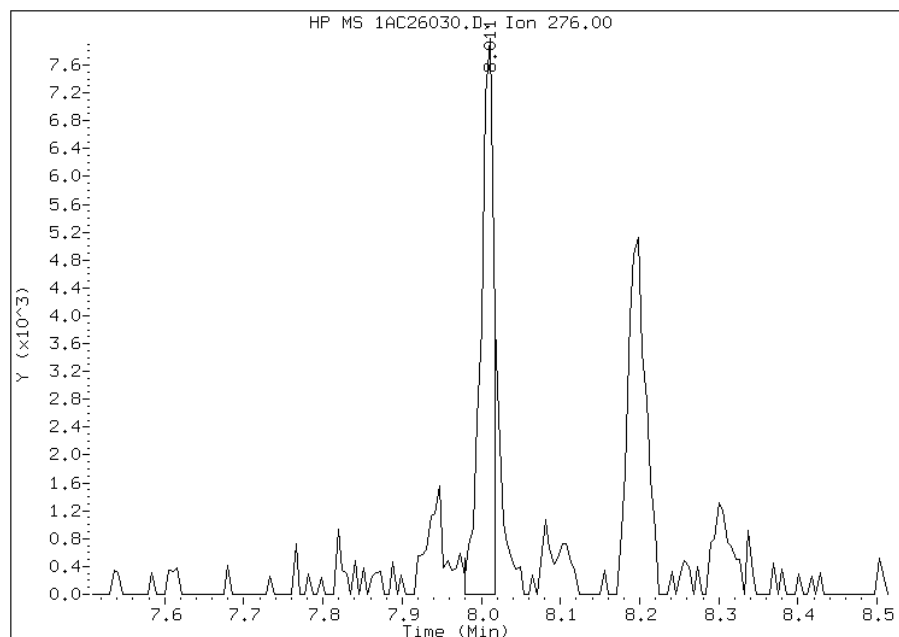
### Processing Integration Results

RT: 8.01  
Response: 10525  
Amount: 1  
Conc: 84



### Manual Integration Results

RT: 8.01  
Response: 8741  
Amount: 1  
Conc: 70



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:43  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360R-CS</u>	Lab Sample ID: <u>680-88527-27</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26031.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.33(g)</u>	Date Analyzed: <u>03/26/2013 20:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>24.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	110	J	210	26
120-12-7	Anthracene	83		43	22
56-55-3	Benzo[a]anthracene	410		41	20
50-32-8	Benzo[a]pyrene	220		54	27
205-99-2	Benzo[b]fluoranthene	750		63	32
191-24-2	Benzo[g,h,i]perylene	140		100	23
207-08-9	Benzo[k]fluoranthene	100		41	19
218-01-9	Chrysene	290		47	23
53-70-3	Dibenz(a,h)anthracene	48	J	100	21
206-44-0	Fluoranthene	330		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	94	J	100	37
90-12-0	1-Methylnaphthalene	210	U	210	23
91-57-6	2-Methylnaphthalene	210	U	210	37
91-20-3	Naphthalene	58	J	210	23
85-01-8	Phenanthrene	110		41	20
129-00-0	Pyrene	340		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26031.D  
Lab Smp Id: 680-88527-A-27-A Client Smp ID: CV1360R-CS  
Inj Date : 26-MAR-2013 20:24  
Operator : SCC Inst ID: BSMA5973.i  
Smp Info : 680-88527-A-27-A  
Misc Info : 680-88527-A-27-A  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26031.D  
Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
Als bottle: 31  
Dil Factor: 4.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	24.374	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	2.282	2.272	(1.000)	488126	40.0000			
* 6 Acenaphthene-d10	164	3.302	3.287	(1.000)	380208	40.0000			
* 10 Phenanthrene-d10	188	4.226	4.205	(1.000)	605749	40.0000			
\$ 14 o-Terphenyl	230	4.493	4.478	(1.063)	10789	1.45415	501.7123		
* 18 Chrysene-d12	240	6.219	6.193	(1.000)	502960	40.0000	(H)		
* 23 Perylene-d12	264	7.314	7.272	(1.000)	565624	40.0000			
2 Naphthalene	128	2.287	2.282	(1.002)	1911	0.16945	58.4652		
5 Acenaphthylene	152	3.217	3.201	(0.974)	2175	0.32567	112.3624		
11 Phenanthrene	178	4.237	4.221	(1.003)	5095	0.33187	114.5007		
12 Anthracene	178	4.269	4.253	(1.010)	3566	0.23955	82.6493		
15 Fluoranthene	202	5.086	5.065	(1.203)	14309	0.94288	325.3116		
16 Pyrene	202	5.247	5.226	(0.844)	14283	0.99043	341.7178(H)		
17 Benzo(a)anthracene	228	6.219	6.177	(1.000)	15009	1.19742	413.1339		
19 Chrysene	228	6.230	6.209	(1.002)	10828	0.83121	286.7827(H)		

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
20 Benzo(b)fluoranthene	252	7.026	6.994	(0.961)	14935		2.16094	745.5682(M)
21 Benzo(k)fluoranthene	252	7.042	7.015	(0.963)	4564		0.29914	103.2082(QMH)
22 Benzo(a)pyrene	252	7.255	7.224	(0.992)	8546		0.64381	222.1284
24 Indeno(1,2,3-cd)pyrene	276	8.003	7.972	(1.094)	3255		0.27177	93.7647(M)
25 Dibenzo(a,h)anthracene	278	8.014	7.982	(1.096)	1645		0.13858	47.8122(H)
26 Benzo(g,h,i)perylene	276	8.190	8.148	(1.120)	4887		0.40535	139.8534

#### QC Flag Legend

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

Data File: 1AC26031.D

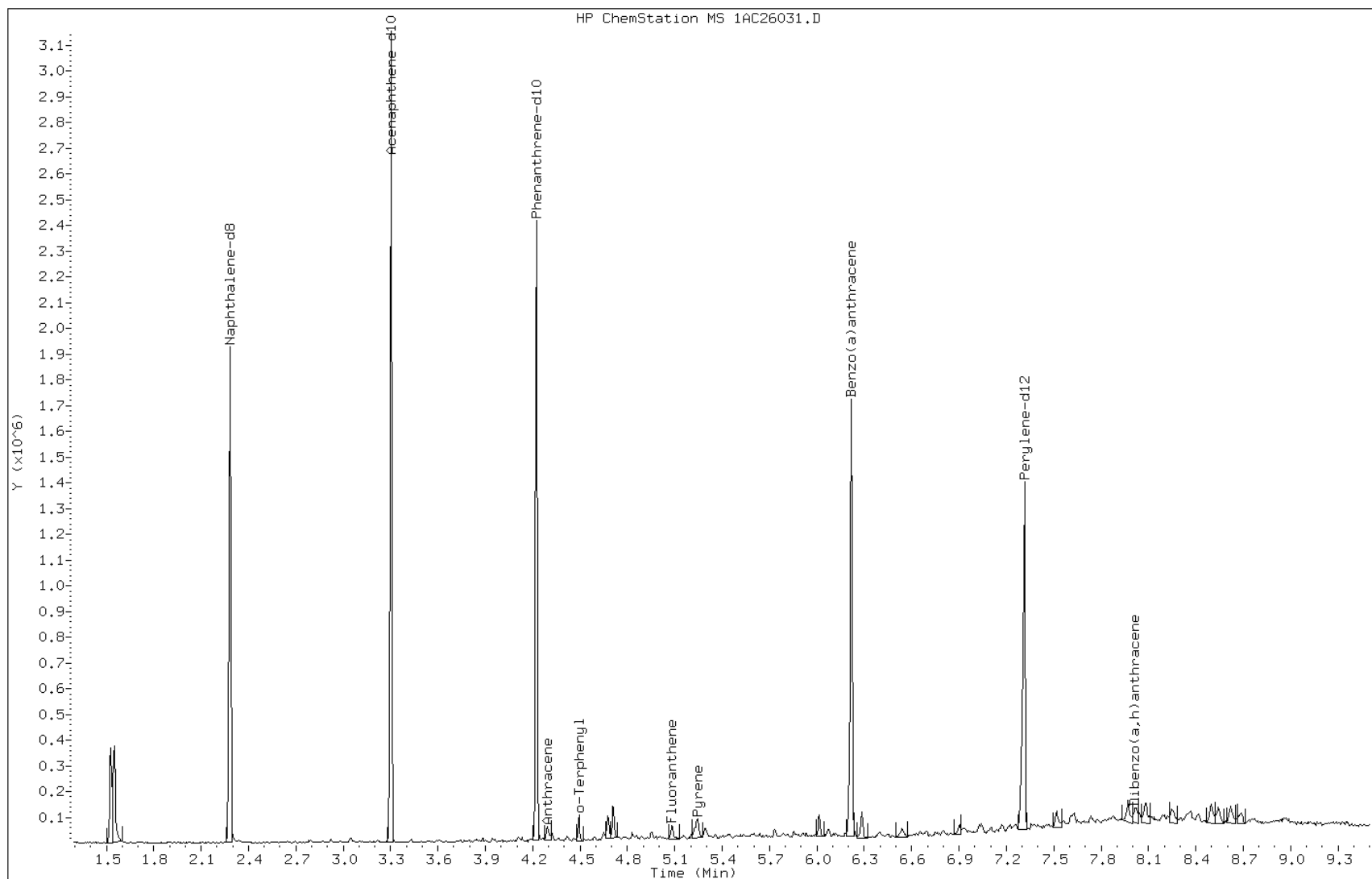
Date: 26-MAR-2013 20:24

Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

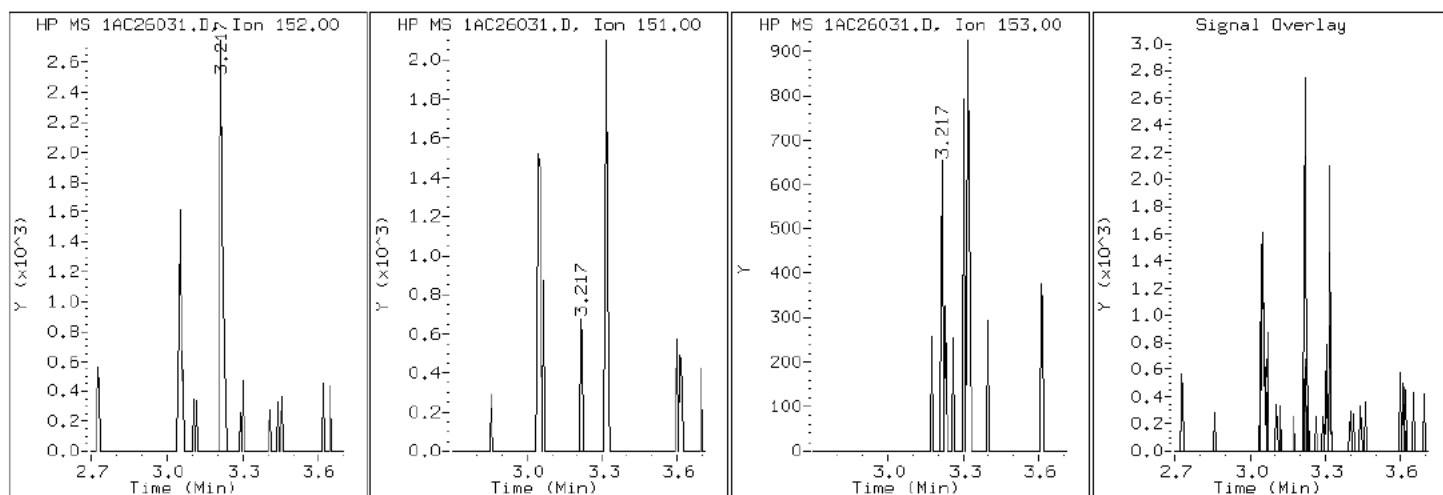
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

5 Acenaphthylene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

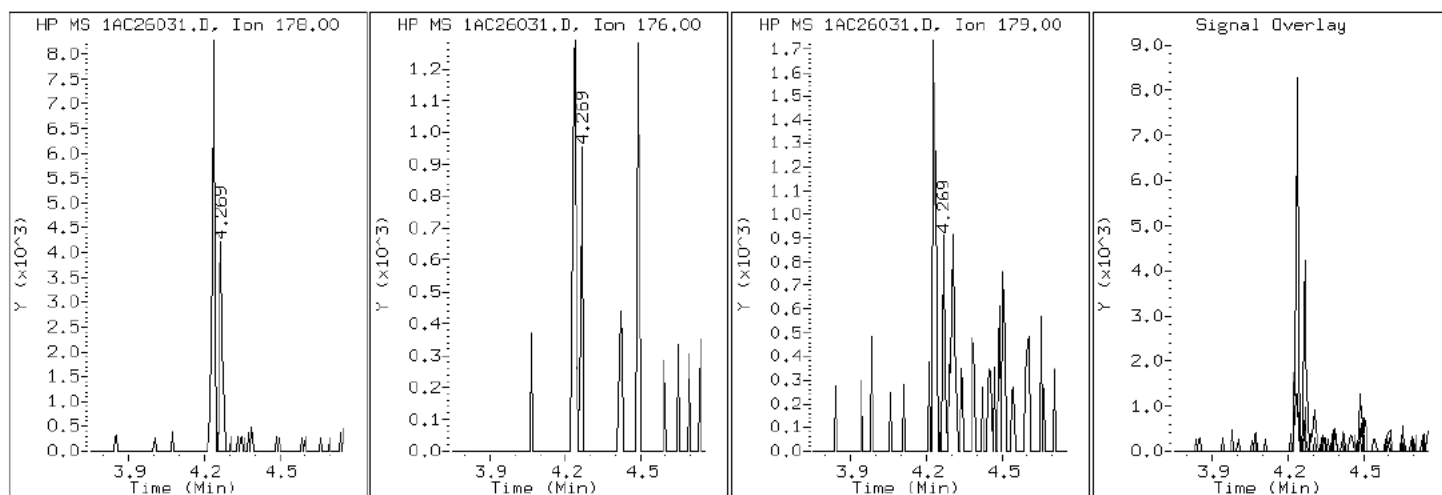
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

12 Anthracene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

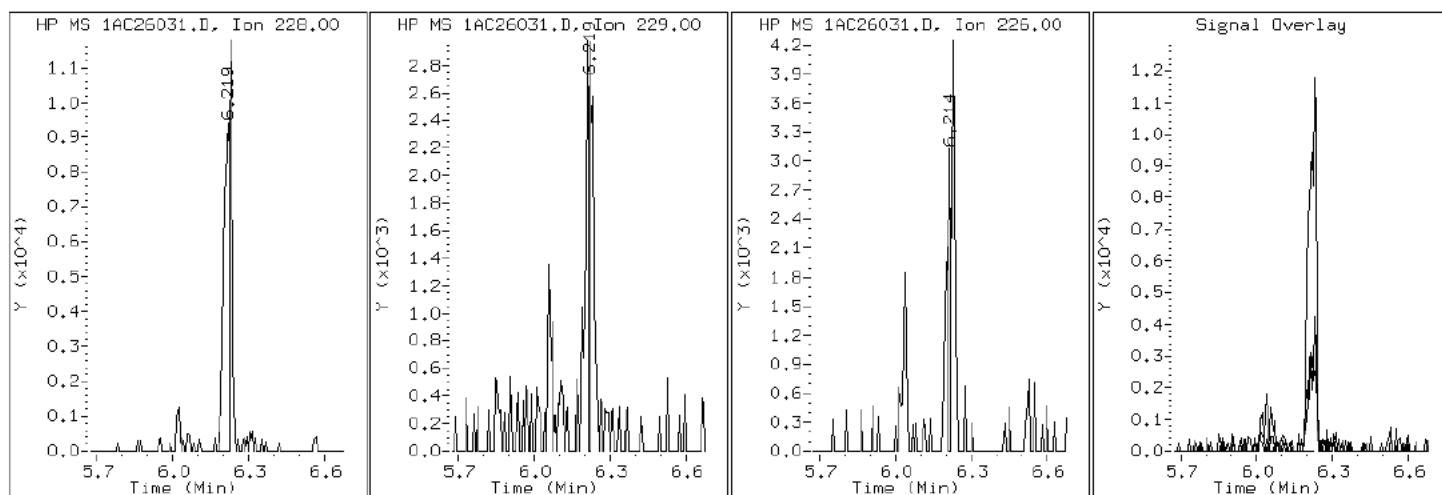
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

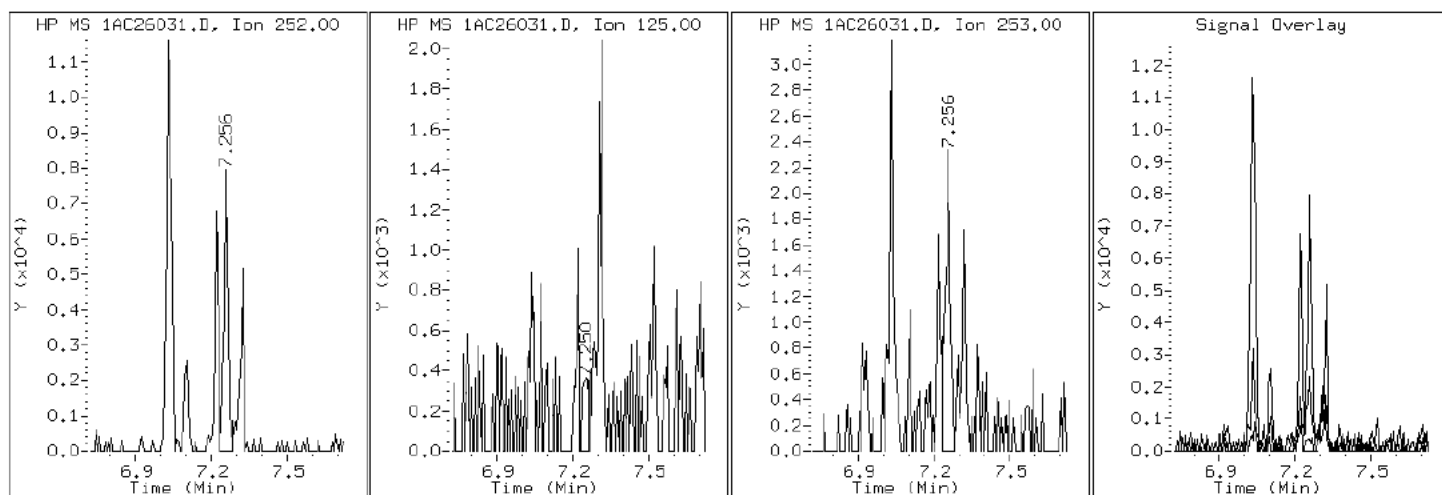
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

22 Benzo(a)pyrene





Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

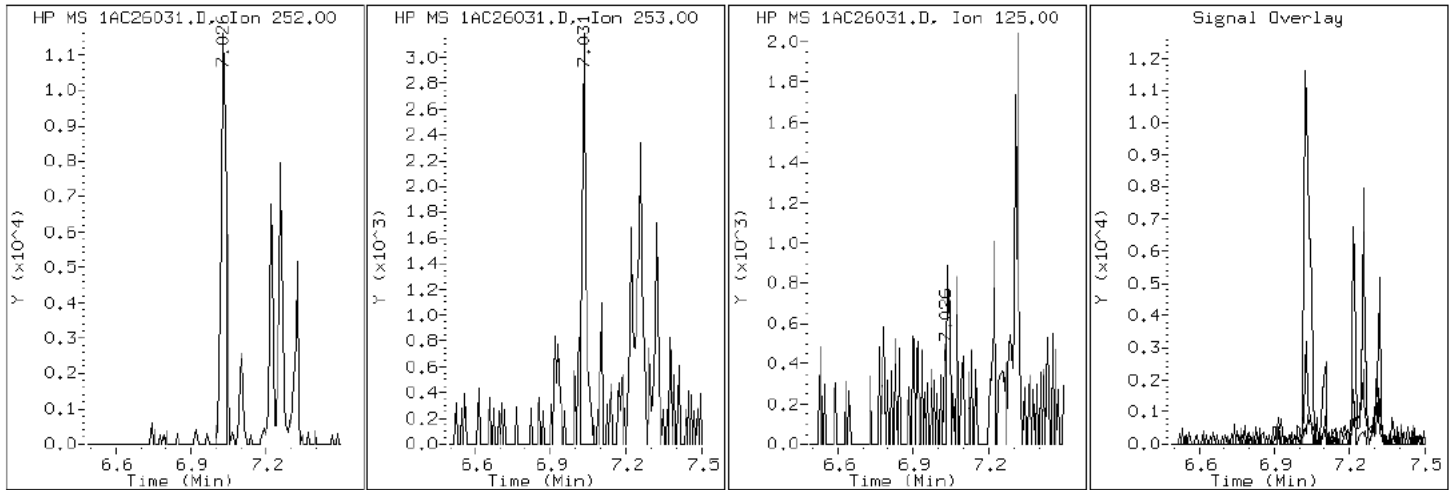
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

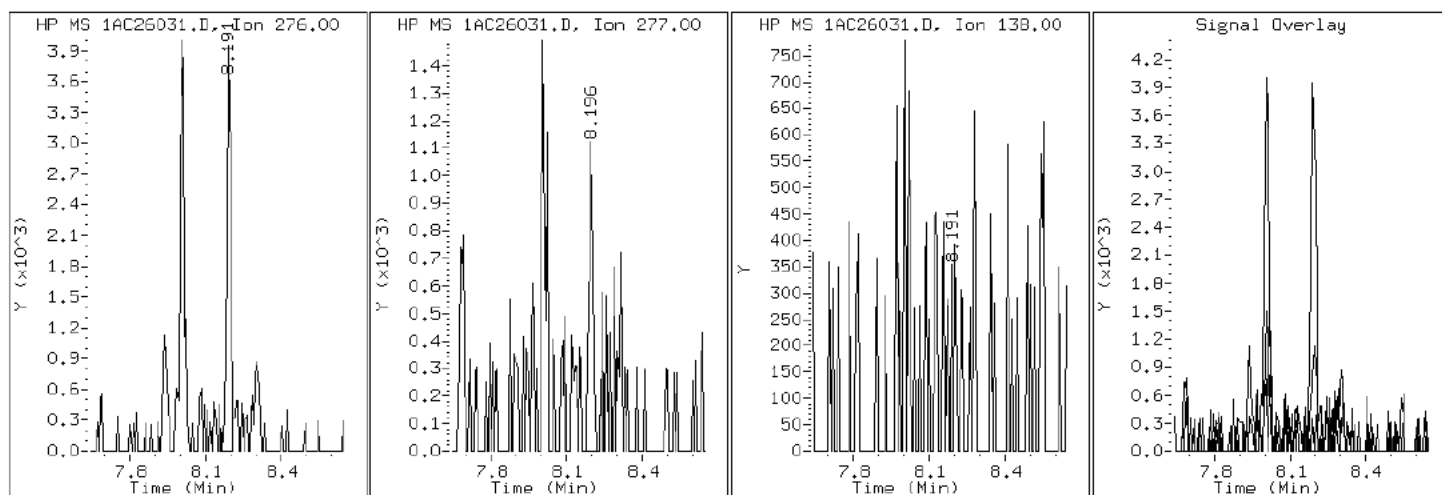
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

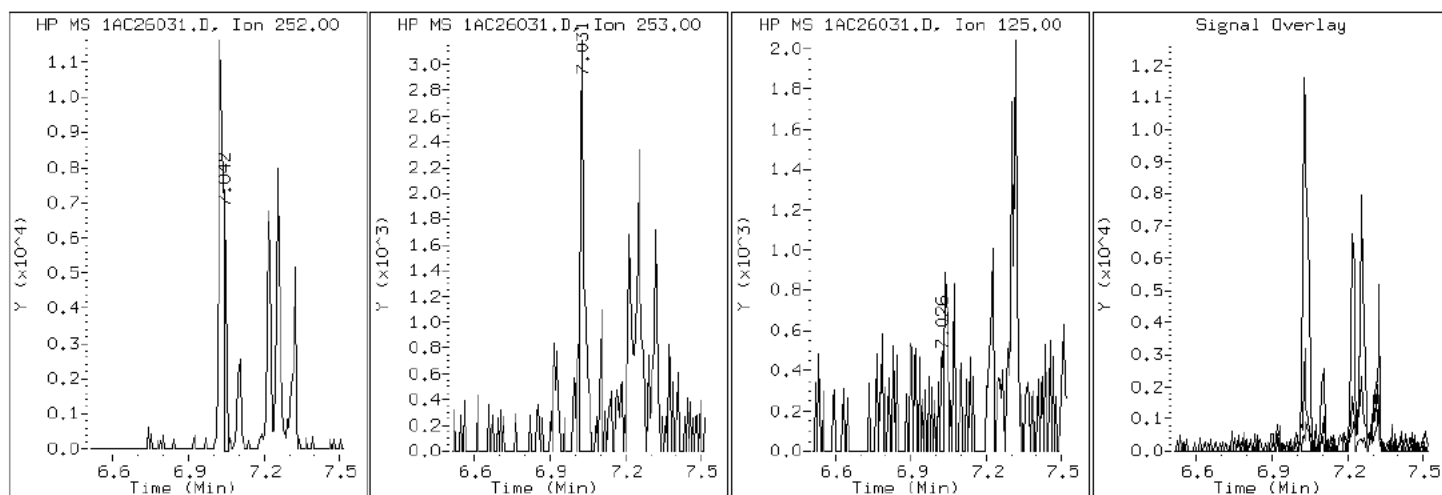
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

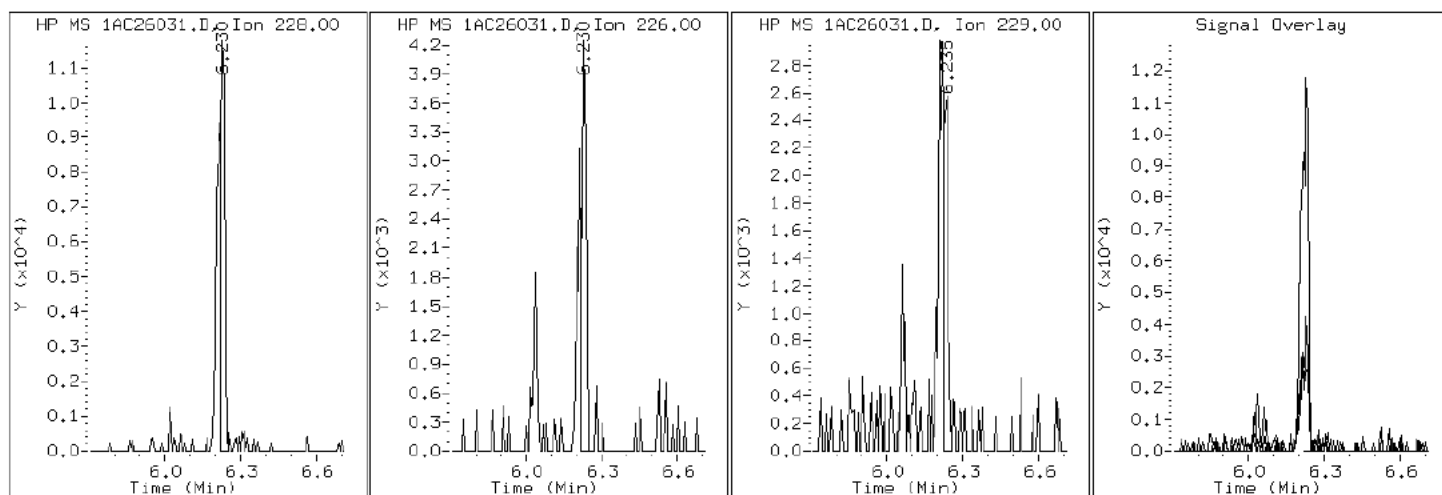
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

19 Chrysene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

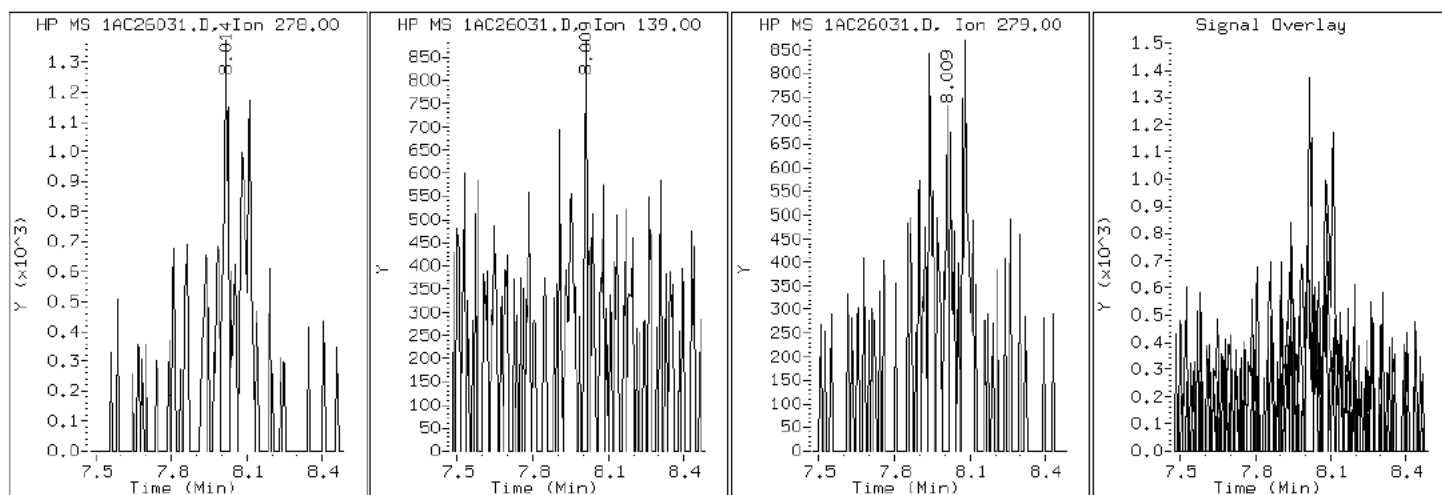
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

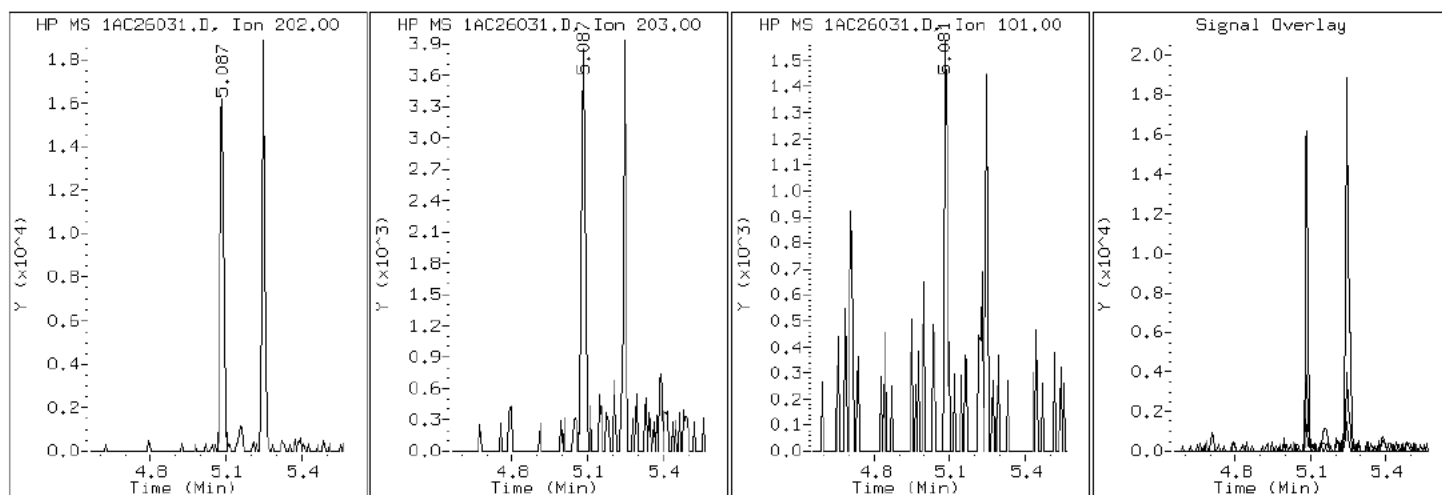
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

15 Fluoranthene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

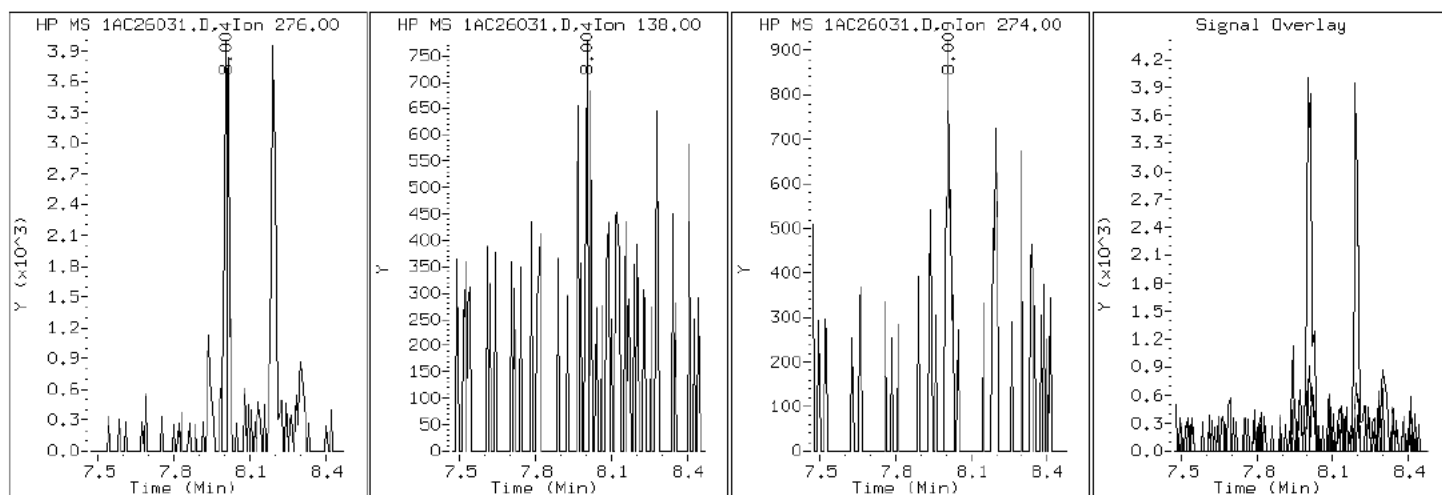
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

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



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

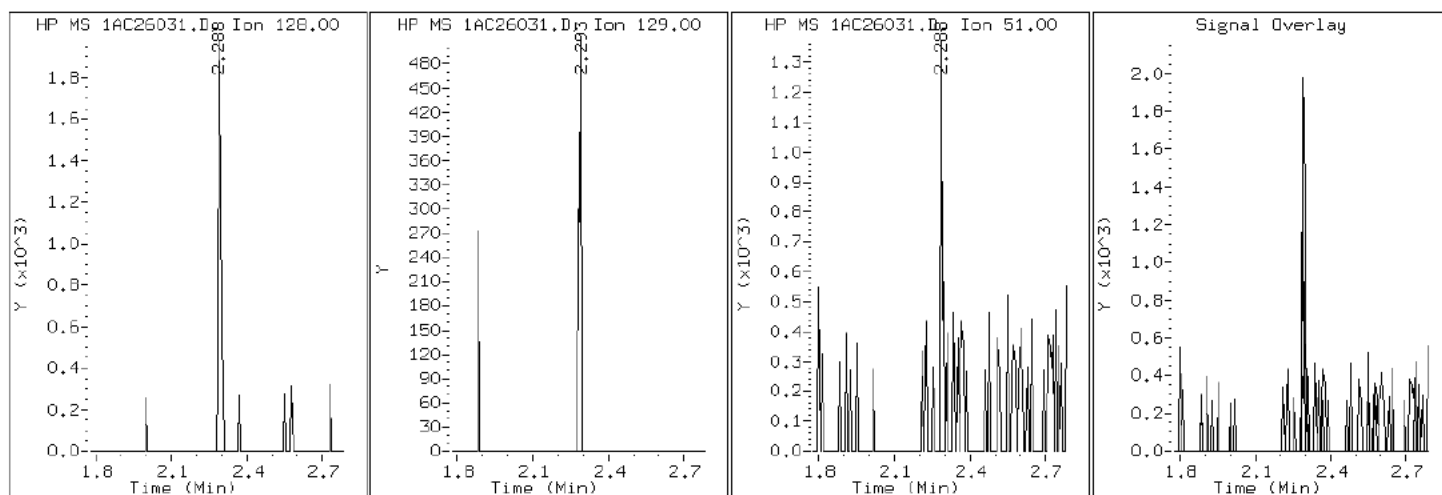
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

## 2 Naphthalene





Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

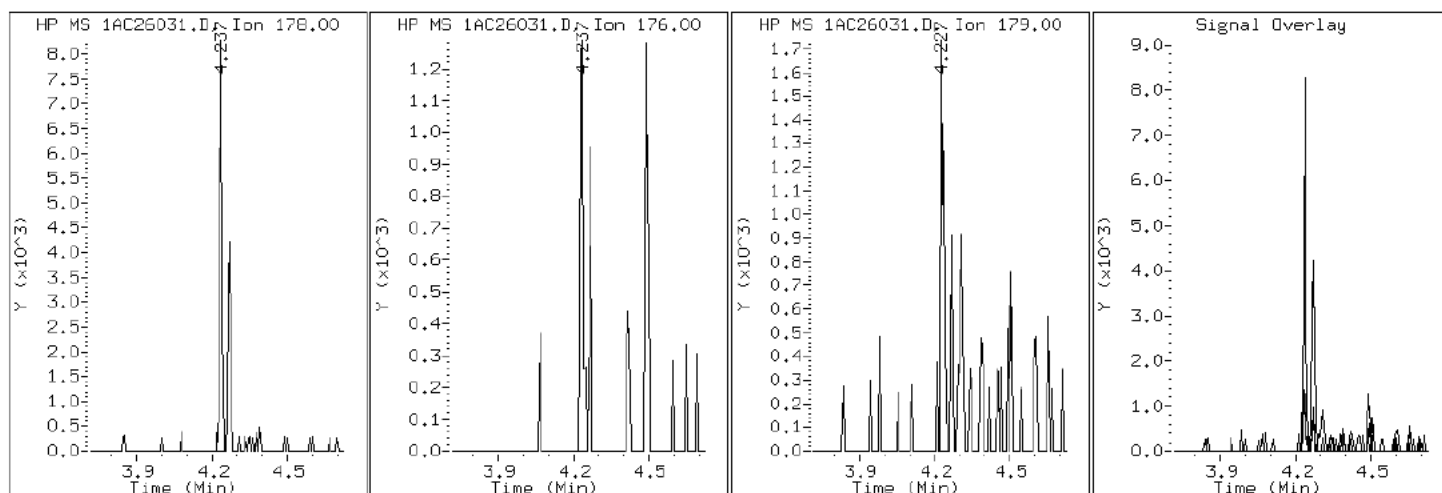
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26031.D

Date: 26-MAR-2013 20:24

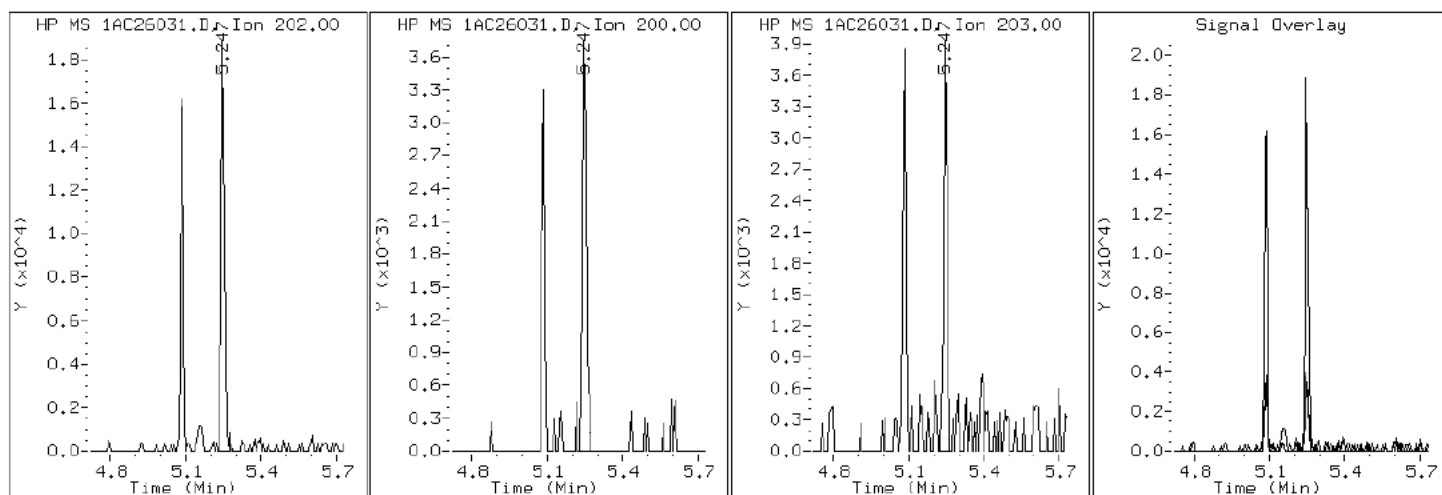
Client ID: CV1360R-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-27-A

Operator: SCC

16 Pyrene

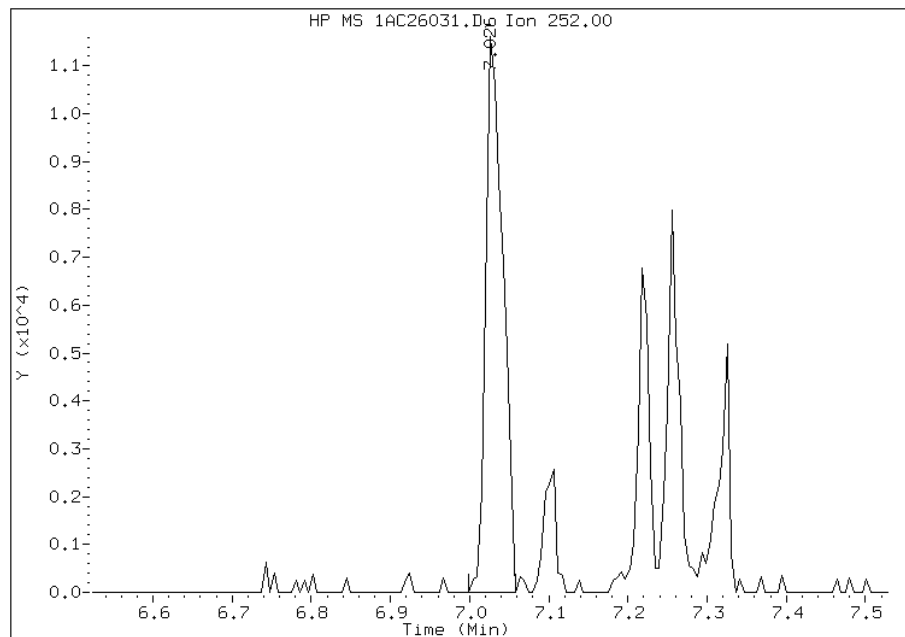


## Manual Integration Report

Data File: 1AC26031.D  
Inj. Date and Time: 26-MAR-2013 20:24  
Instrument ID: BSMA5973.i  
Client ID: CV1360R-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

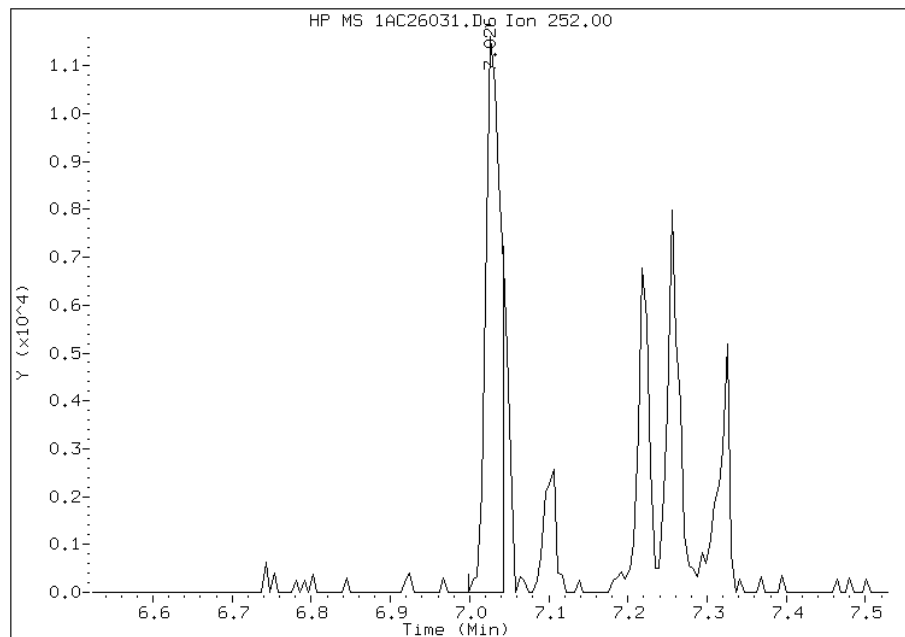
### Processing Integration Results

RT: 7.03  
Response: 17219  
Amount: 2  
Conc: 796



### Manual Integration Results

RT: 7.03  
Response: 14935  
Amount: 2  
Conc: 746



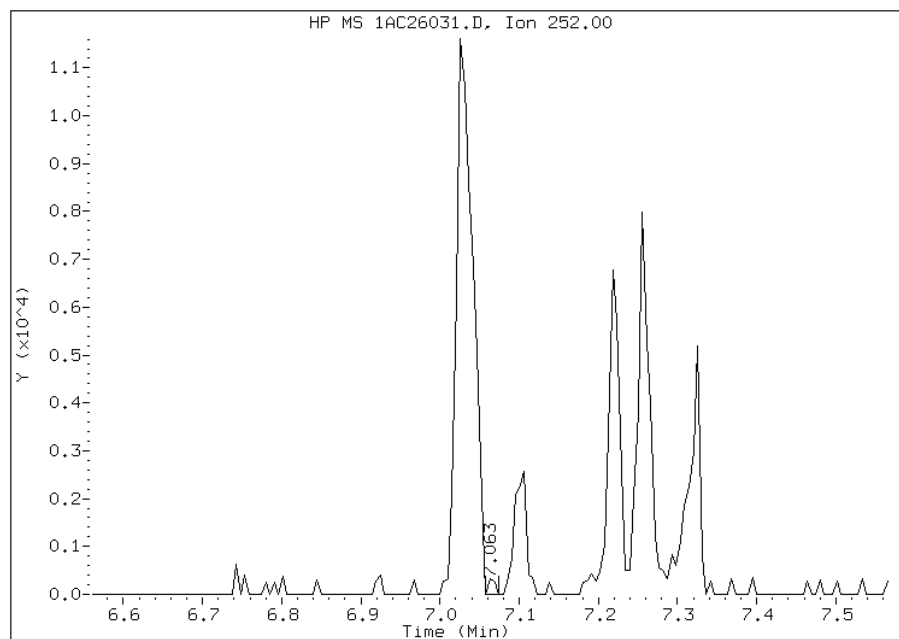
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:44  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26031.D  
Inj. Date and Time: 26-MAR-2013 20:24  
Instrument ID: BSMA5973.i  
Client ID: CV1360R-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

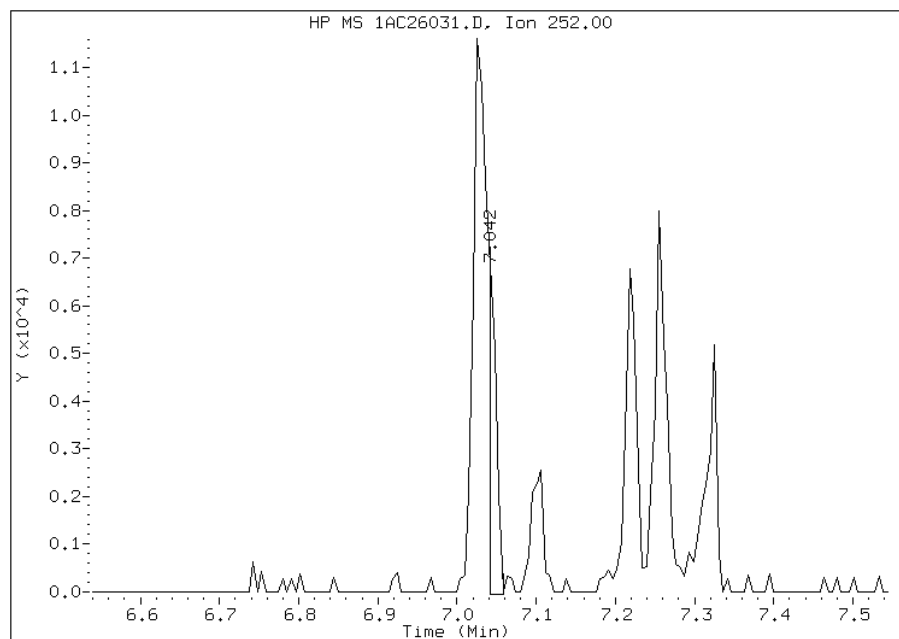
### Processing Integration Results

RT: 7.06  
Response: 185  
Amount: 0  
Conc: 4



### Manual Integration Results

RT: 7.04  
Response: 4564  
Amount: 0  
Conc: 103



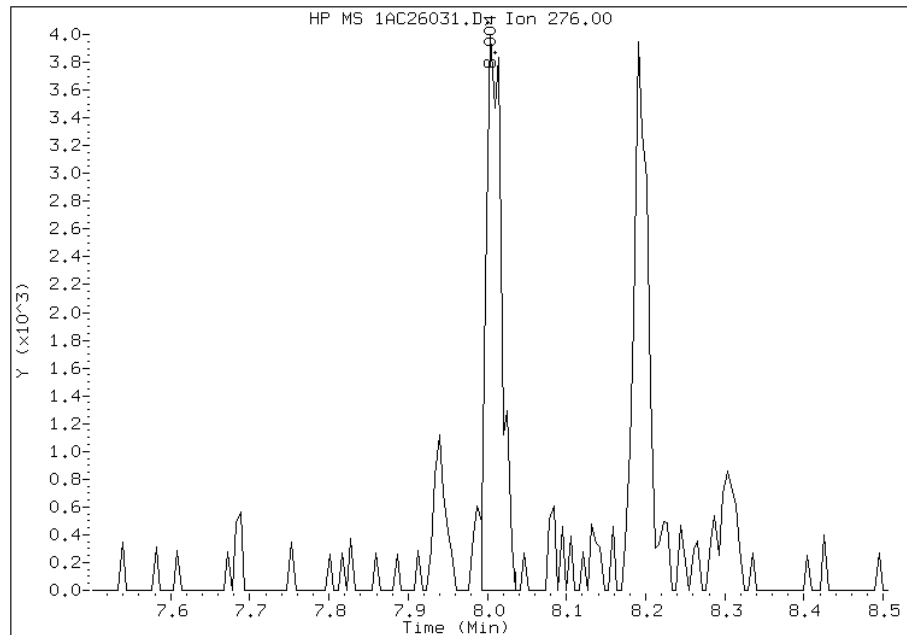
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:44  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC26031.D  
Inj. Date and Time: 26-MAR-2013 20:24  
Instrument ID: BSMA5973.i  
Client ID: CV1360R-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

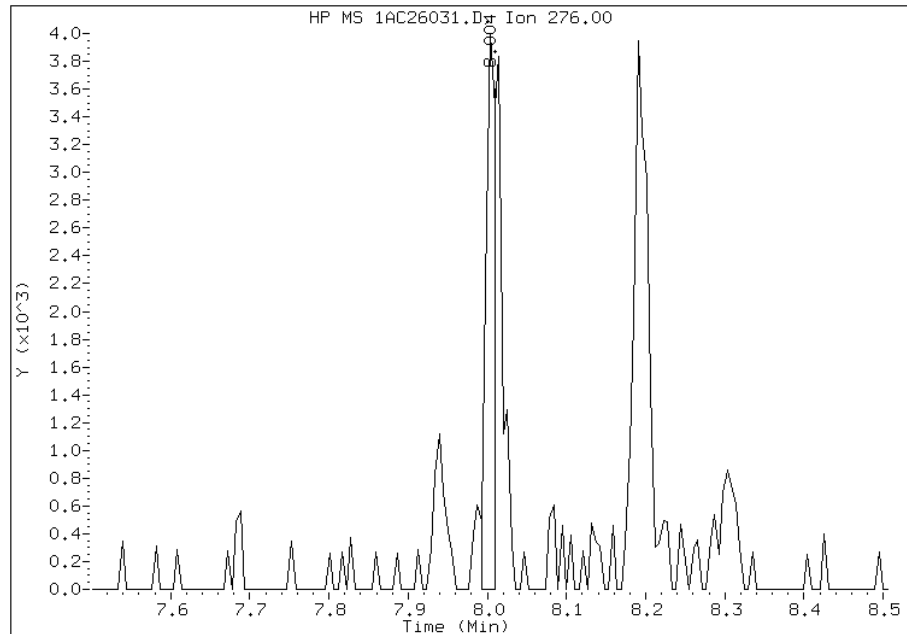
### Processing Integration Results

RT: 8.00  
Response: 5360  
Amount: 0  
Conc: 154



### Manual Integration Results

RT: 8.00  
Response: 3255  
Amount: 0  
Conc: 94



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360S-CS</u>	Lab Sample ID: <u>680-88527-28</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26032.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:53</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.10(g)</u>	Date Analyzed: <u>03/26/2013 20:40</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>18.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	24
120-12-7	Anthracene	28	J	41	20
56-55-3	Benzo[a]anthracene	240		39	19
50-32-8	Benzo[a]pyrene	110		51	25
205-99-2	Benzo[b]fluoranthene	540		60	30
191-24-2	Benzo[g,h,i]perylene	63	J	98	21
207-08-9	Benzo[k]fluoranthene	67		39	18
218-01-9	Chrysene	180		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	220		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	94	J	98	35
90-12-0	1-Methylnaphthalene	200	U	200	21
91-57-6	2-Methylnaphthalene	200	U	200	35
91-20-3	Naphthalene	46	J	200	21
85-01-8	Phenanthrene	99		39	19
129-00-0	Pyrene	160		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26032.D  
 Lab Smp Id: 680-88527-A-28-A Client Smp ID: CV1360S-CS  
 Inj Date : 26-MAR-2013 20:40  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88527-A-28-A  
 Misc Info : 680-88527-A-28-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26032.D  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 32  
 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	15.100	Weight Extracted
M	18.534	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	****	*****	*****	*****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	2.283	2.272 (1.000)	337945	40.0000				
* 6 Acenaphthene-d10	164	3.303	3.287 (1.000)	250760	40.0000				
* 10 Phenanthrene-d10	188	4.222	4.205 (1.000)	387627	40.0000				(H)
\$ 14 o-Terphenyl	230	4.489	4.478 (1.063)	10749	2.21476	720.1632(M)			
* 18 Chrysene-d12	240	6.214	6.193 (1.000)	368013	40.0000				(H)
* 23 Perylene-d12	264	7.310	7.272 (1.000)	382703	40.0000				(H)
2 Naphthalene	128	2.293	2.282 (1.005)	1112	0.14242	46.3114			
11 Phenanthrene	178	4.233	4.221 (1.003)	2996	0.30496	99.1618			
12 Anthracene	178	4.265	4.253 (1.010)	833	0.08745	28.4342(H)			
15 Fluoranthene	202	5.082	5.065 (1.204)	6463	0.66552	216.4030			
16 Pyrene	202	5.248	5.226 (0.844)	5247	0.49726	161.6924			
17 Benzo(a)anthracene	228	6.209	6.177 (0.999)	6134	0.74314	241.6430(H)			
19 Chrysene	228	6.230	6.209 (1.003)	5147	0.53999	175.5858(H)			
20 Benzo(b)fluoranthene	252	7.021	6.994 (0.961)	4878	1.66527	541.4878(M)			

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
21 Benzo(k)fluoranthene	252	7.037	7.015	(0.963)	2126		0.20595	66.9666(M)
22 Benzo(a)pyrene	252	7.256	7.224	(0.993)	3135		0.34906	113.5023(H)
24 Indeno(1,2,3-cd)pyrene	276	7.999	7.972	(1.094)	2335		0.28814	93.6917(H)
26 Benzo(g,h,i)perylene	276	8.180	8.148	(1.119)	1581		0.19381	63.0215(H)

#### QC Flag Legend

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



Data File: 1AC26032.D

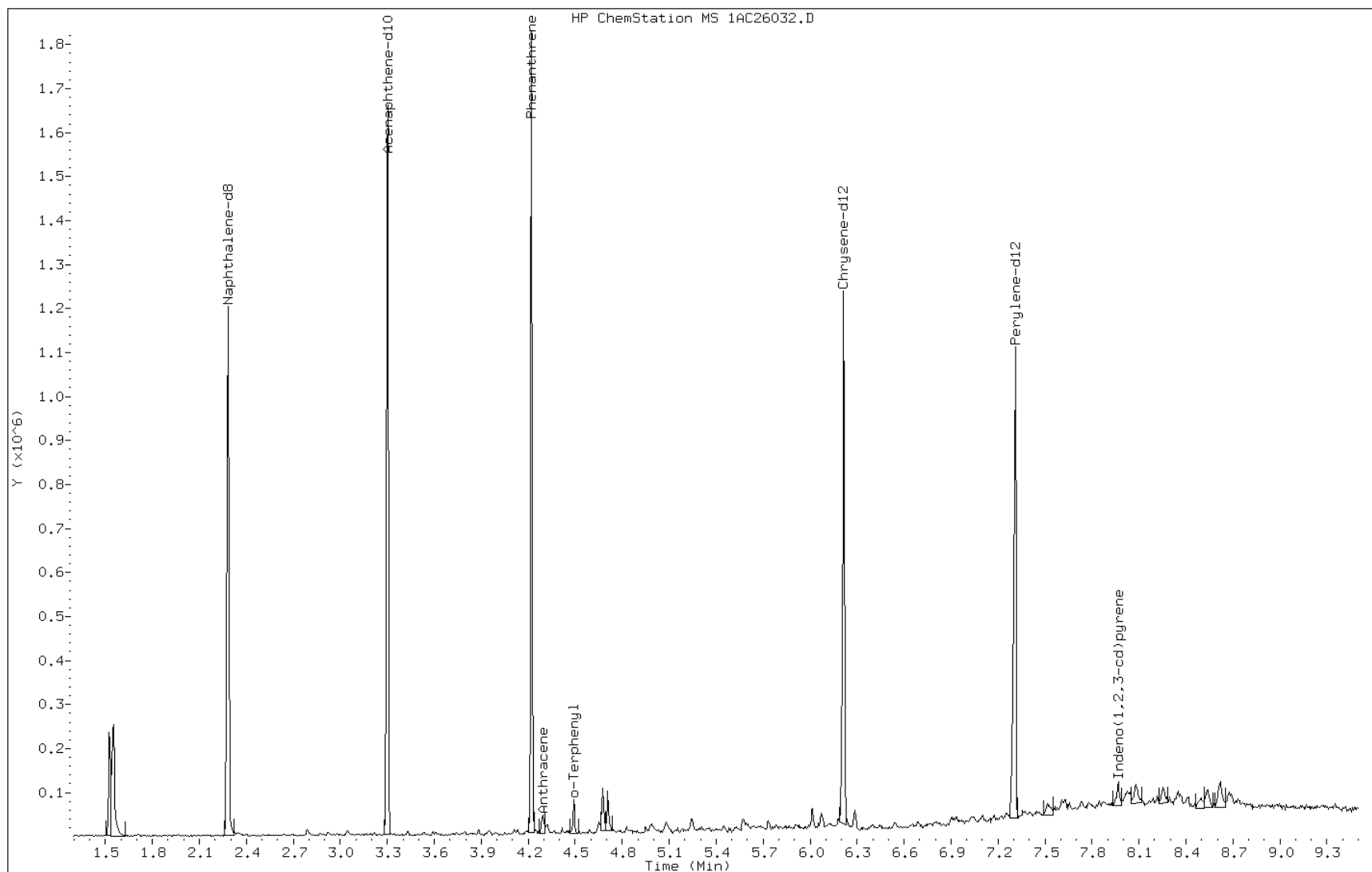
Date: 26-MAR-2013 20:40

Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

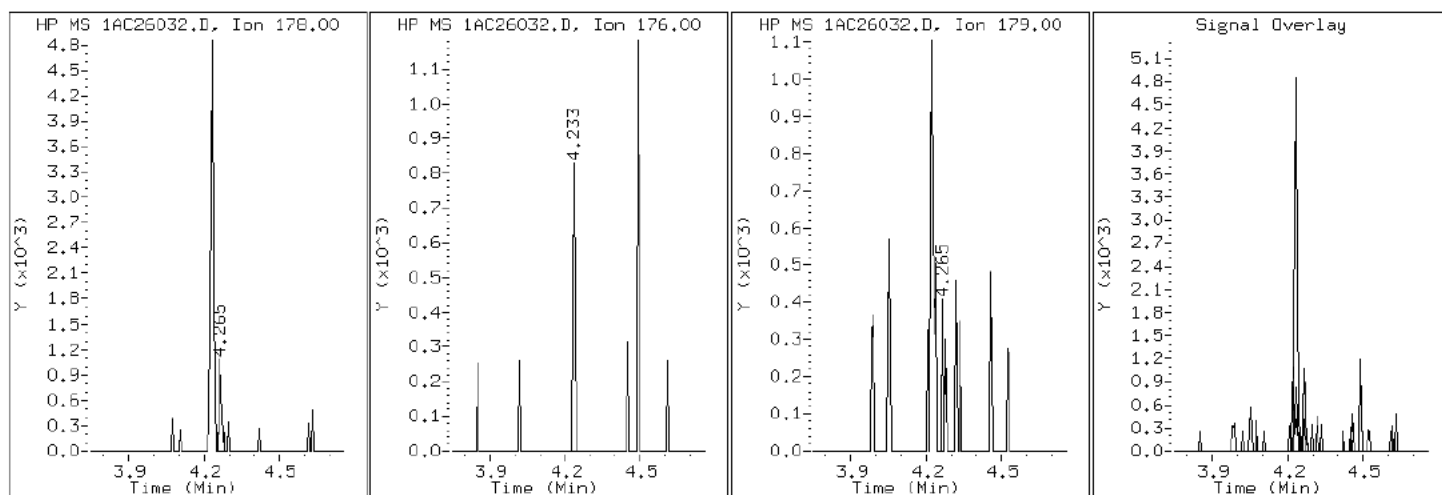
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

12 Anthracene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

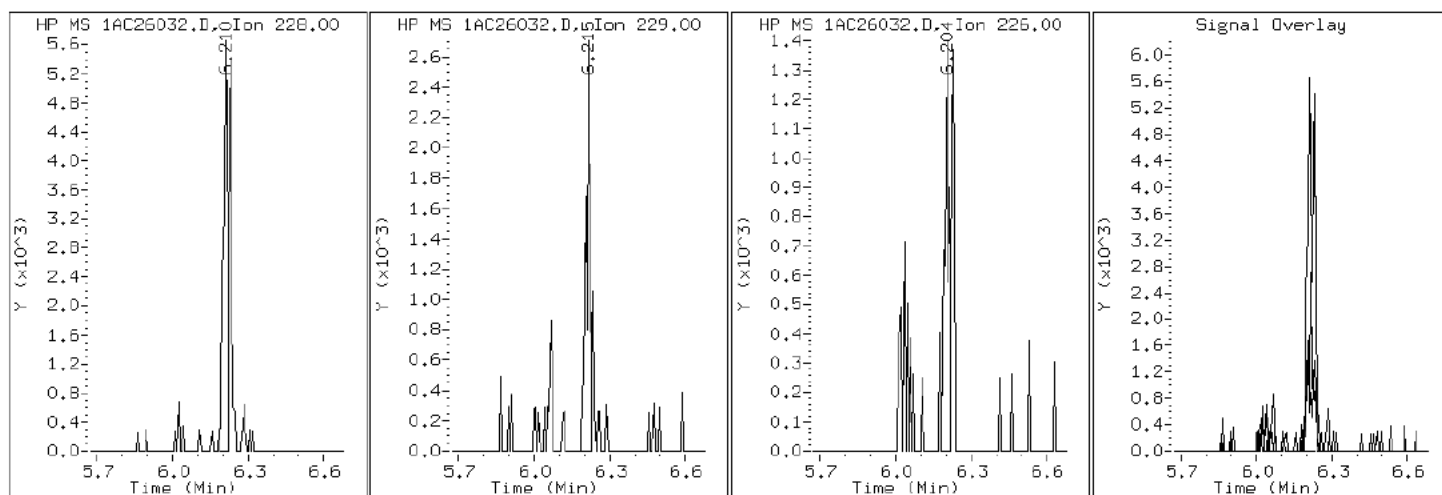
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

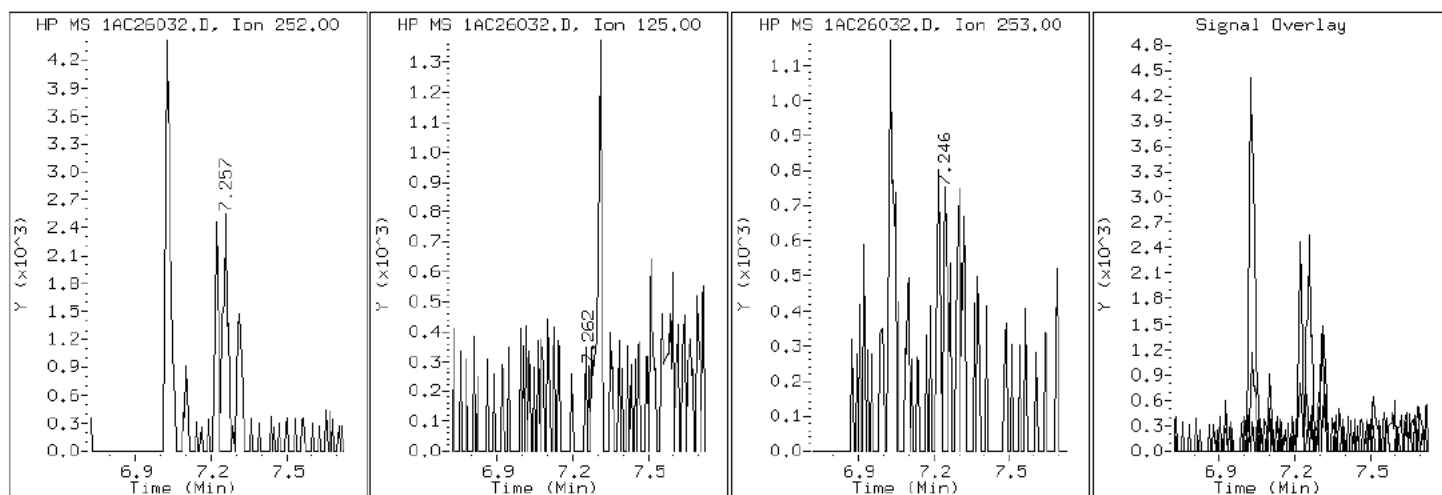
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

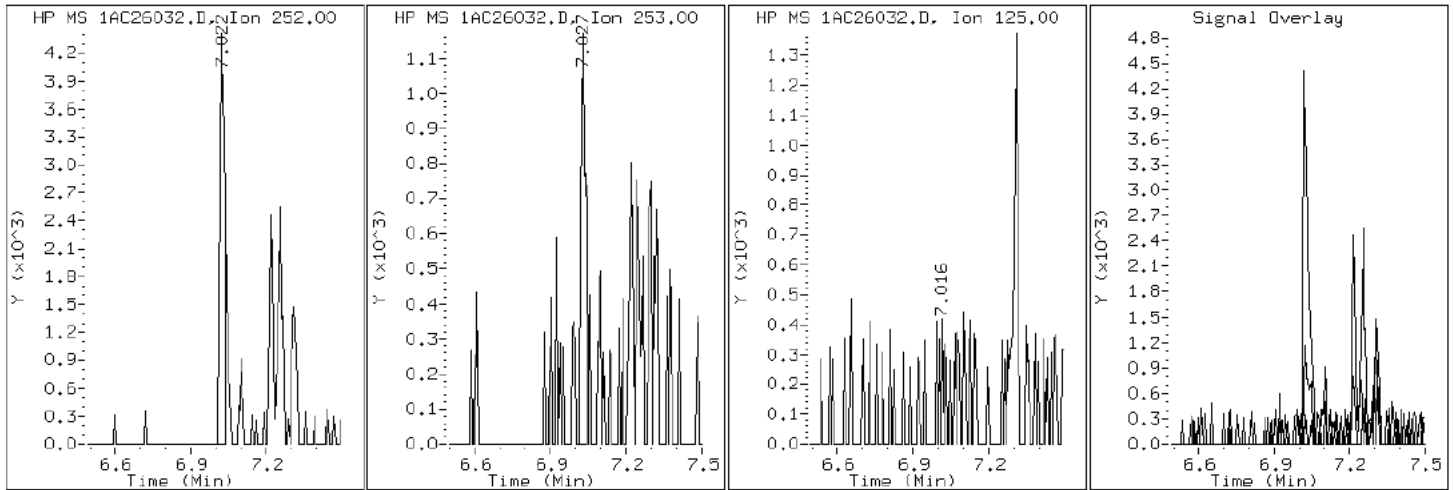
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

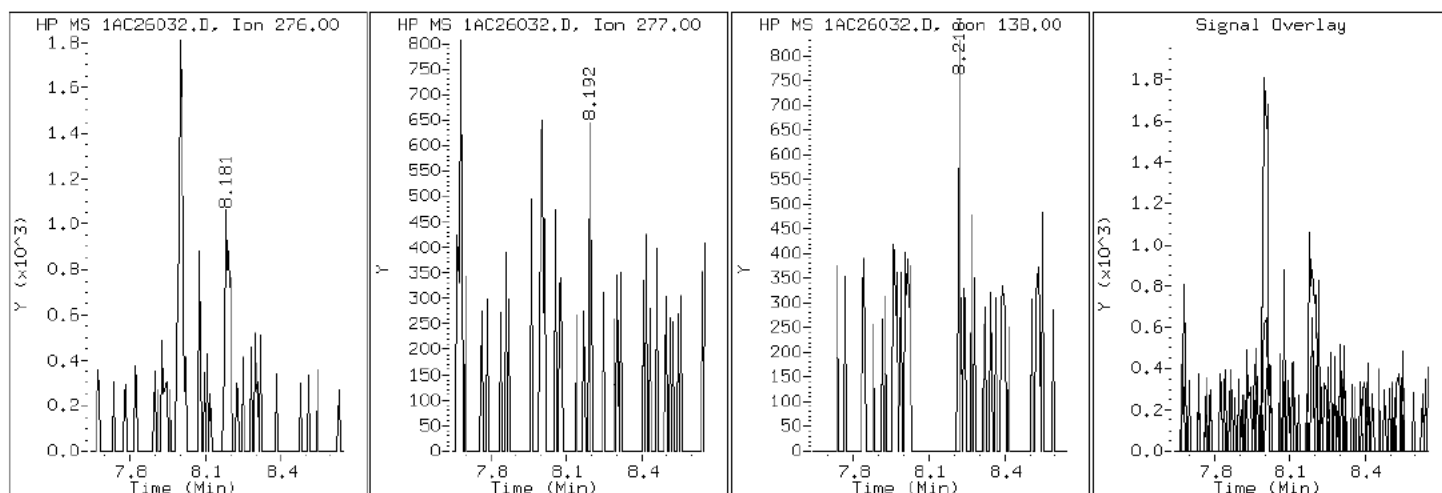
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

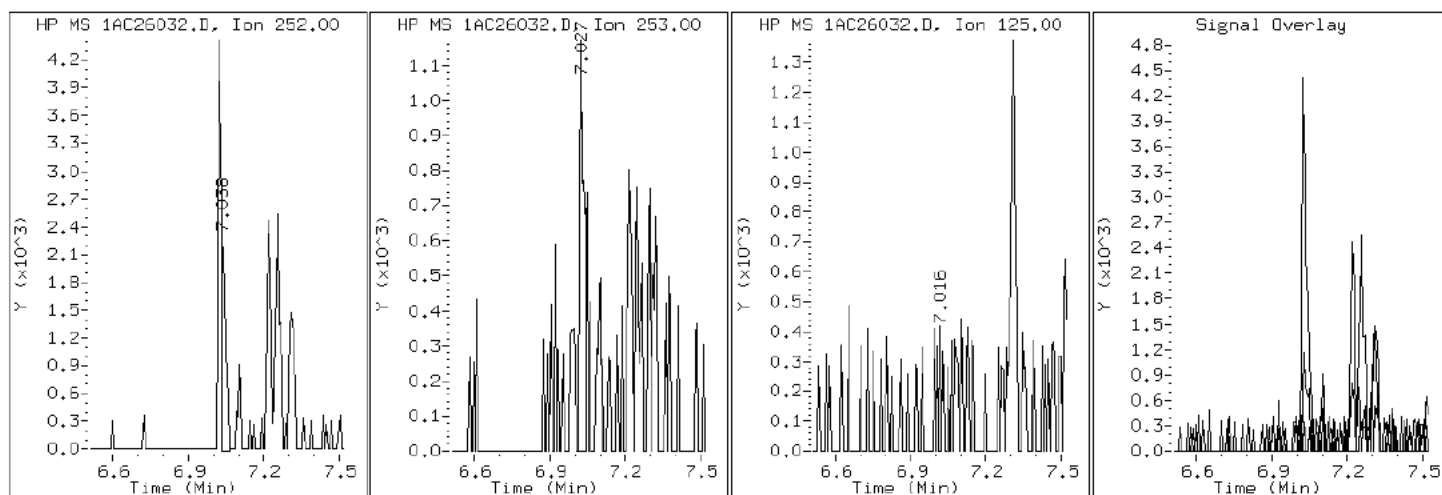
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

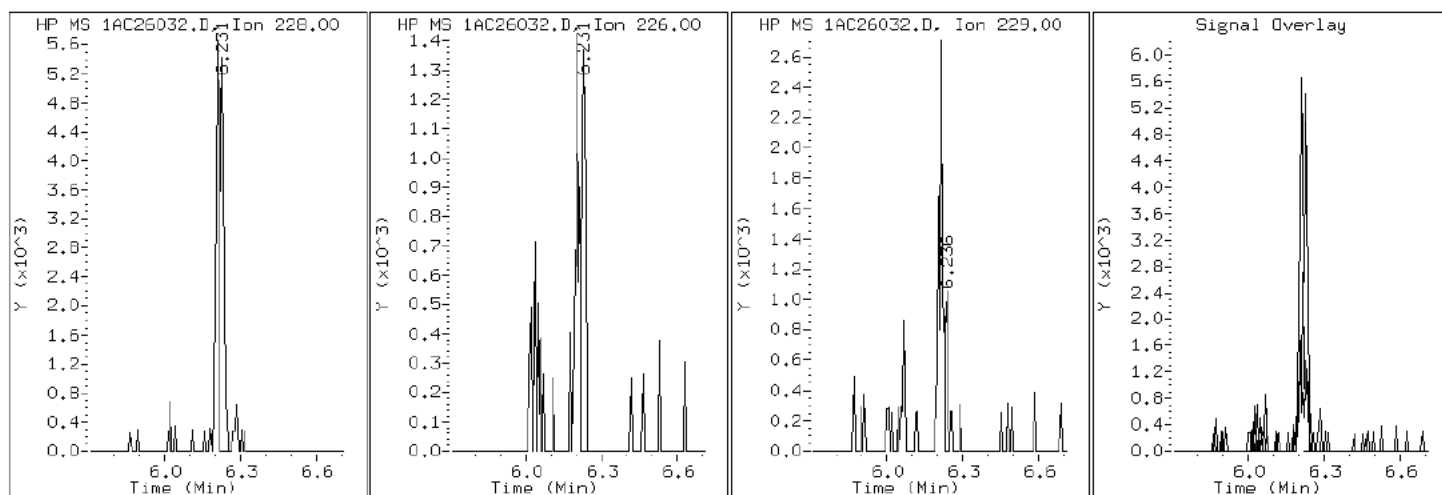
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

19 Chrysene





Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

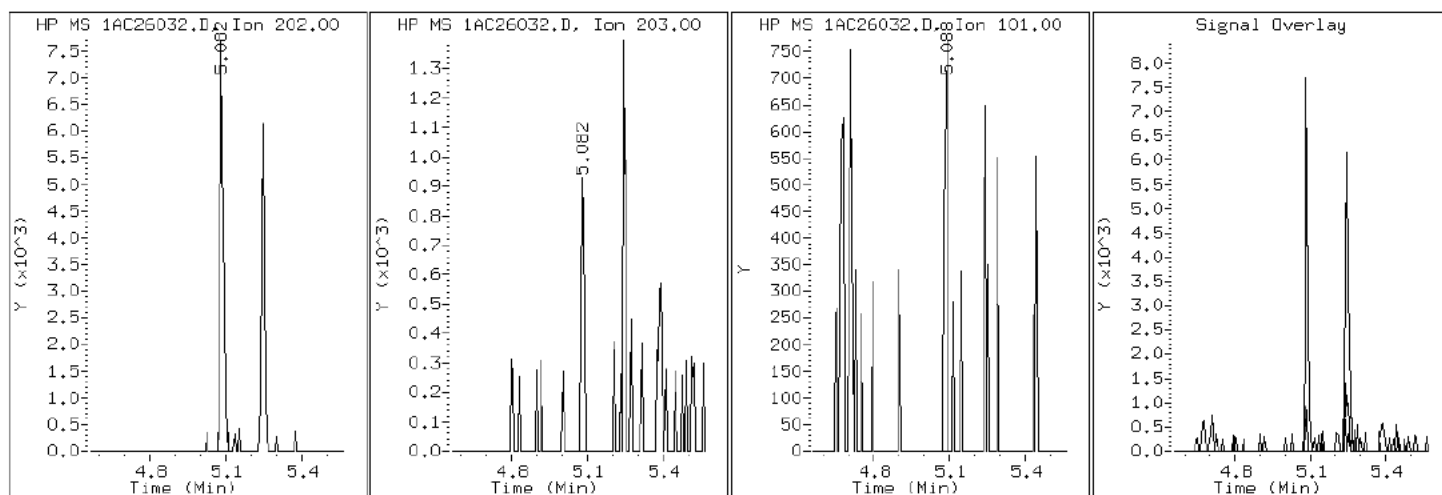
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

15 Fluoranthene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

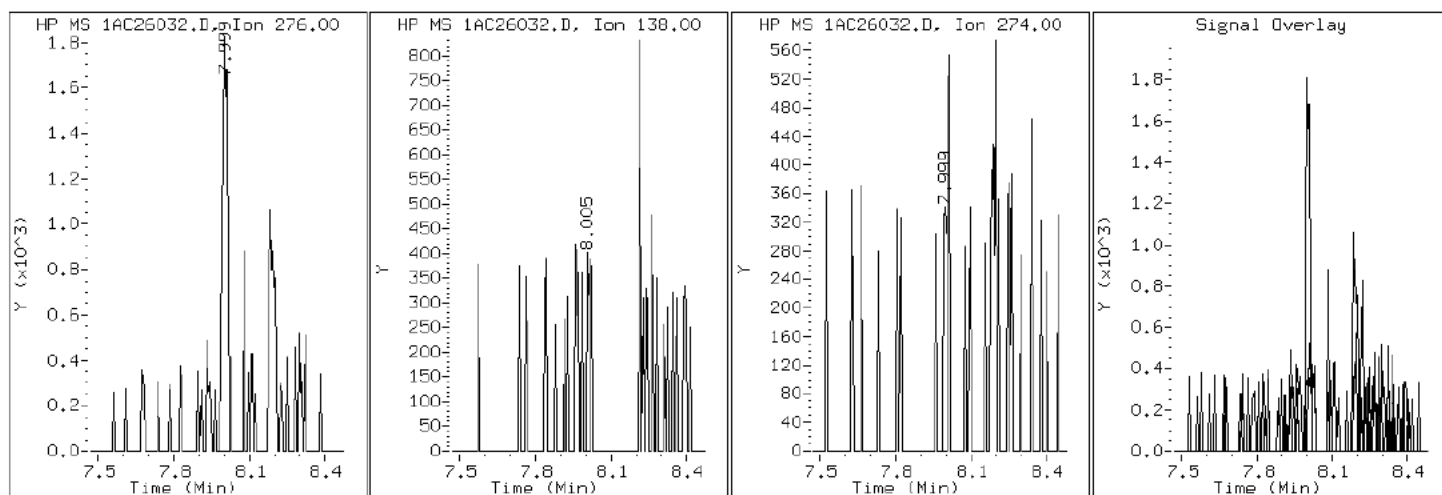
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

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



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

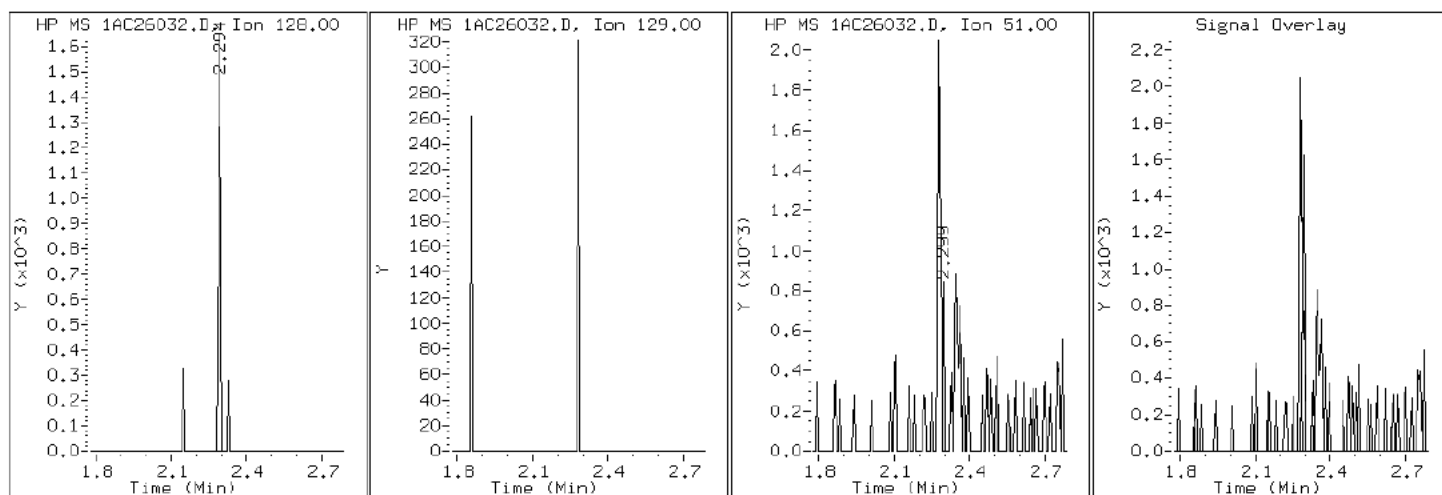
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

## 2 Naphthalene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

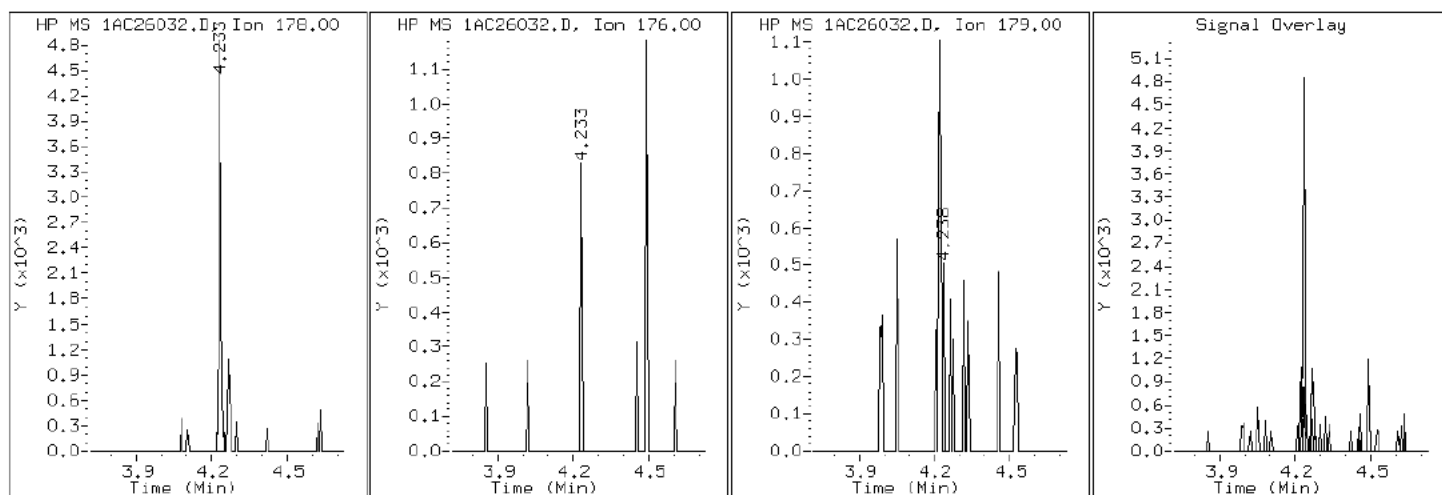
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26032.D

Date: 26-MAR-2013 20:40

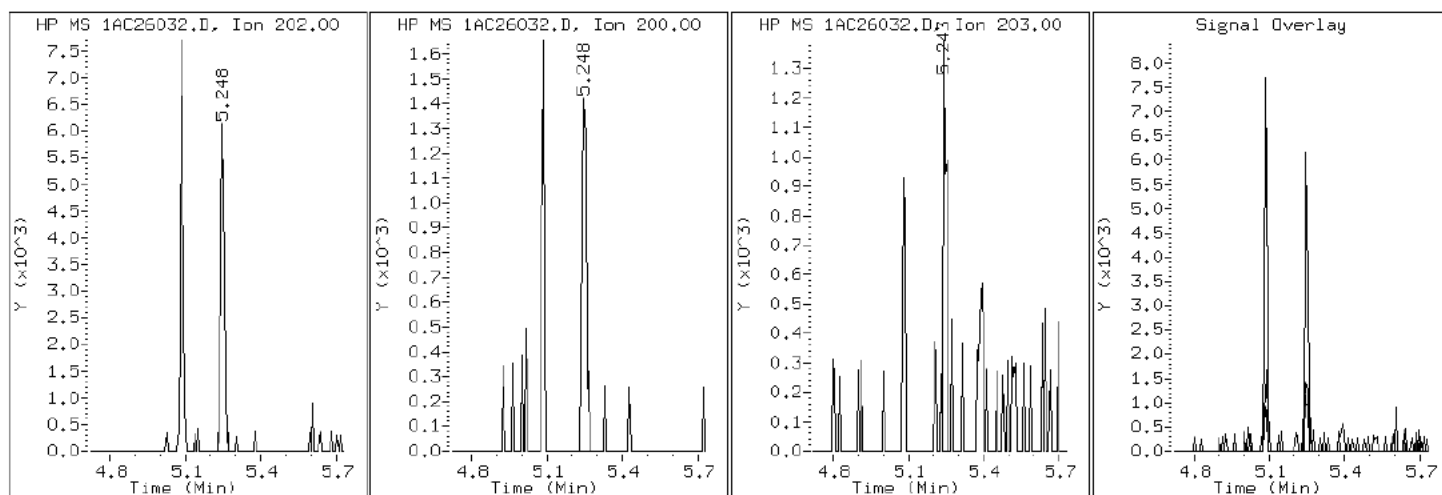
Client ID: CV1360S-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-28-A

Operator: SCC

16 Pyrene

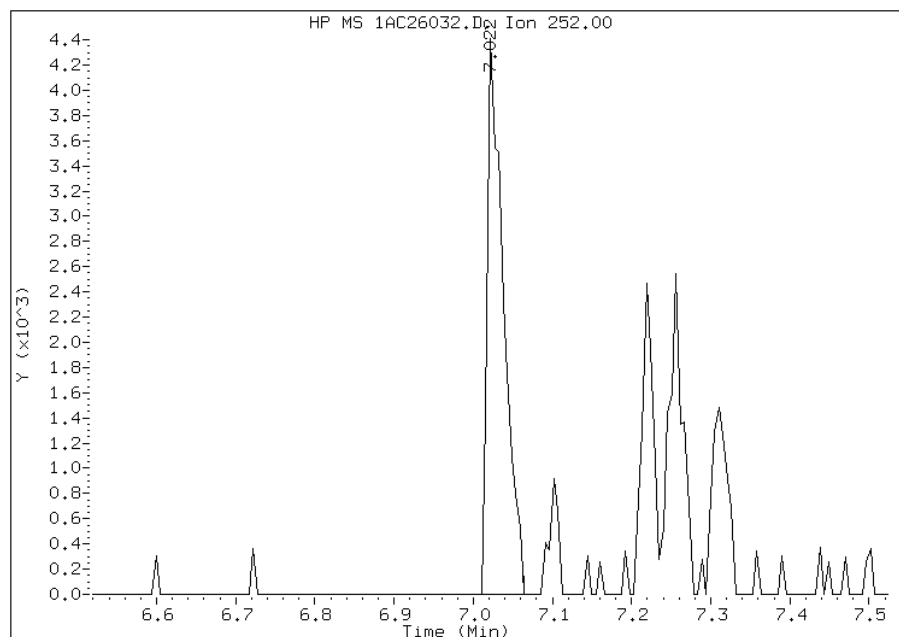


## Manual Integration Report

Data File: 1AC26032.D  
Inj. Date and Time: 26-MAR-2013 20:40  
Instrument ID: BSMA5973.i  
Client ID: CV1360S-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

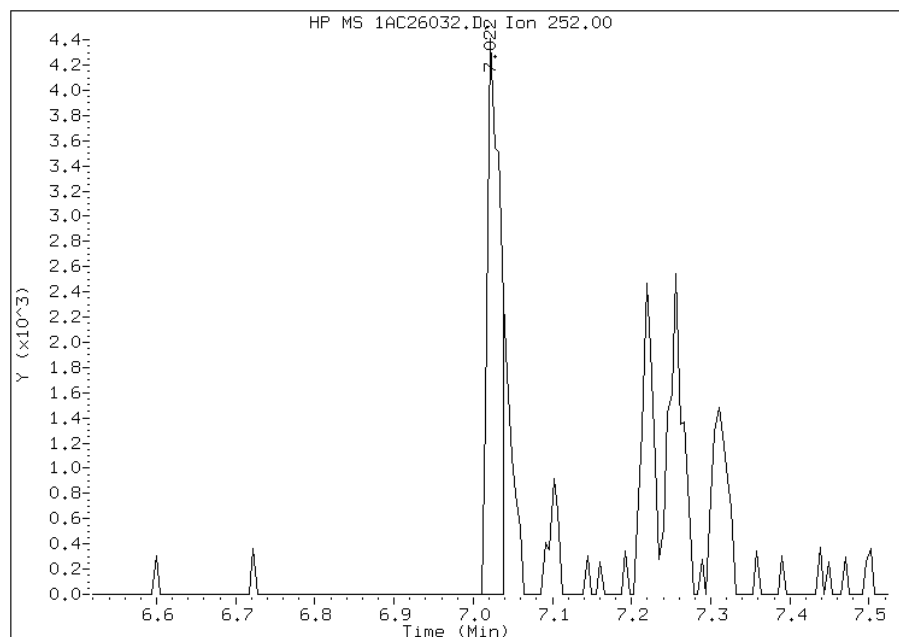
### Processing Integration Results

RT: 7.02  
Response: 6210  
Amount: 2  
Conc: 583



### Manual Integration Results

RT: 7.02  
Response: 4878  
Amount: 2  
Conc: 541



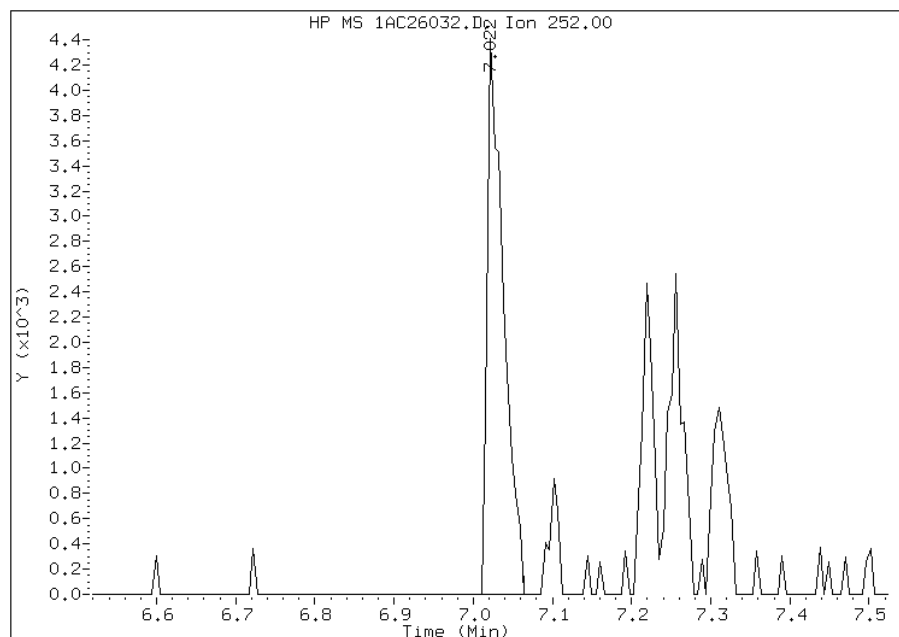
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:47  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26032.D  
Inj. Date and Time: 26-MAR-2013 20:40  
Instrument ID: BSMA5973.i  
Client ID: CV1360S-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

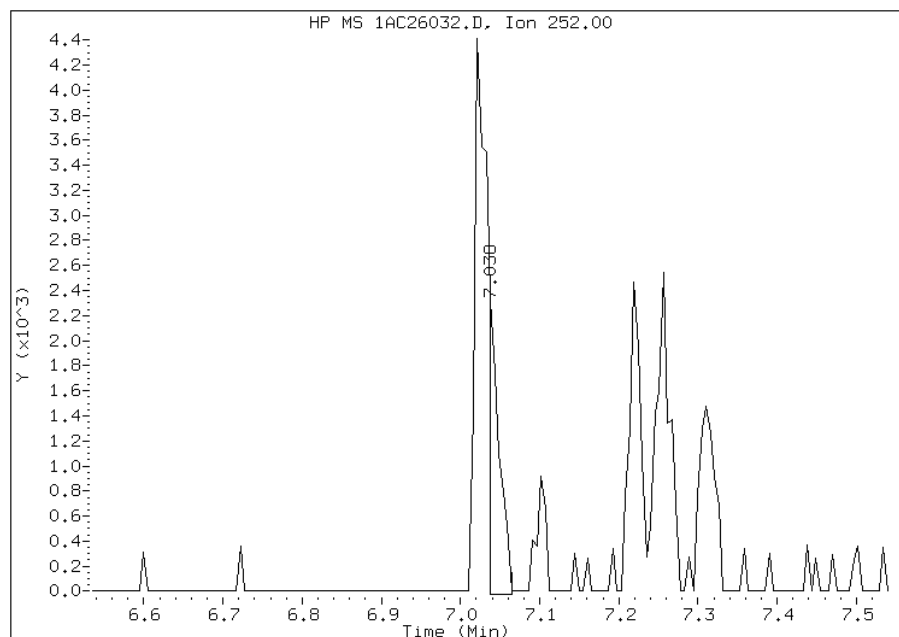
### Processing Integration Results

RT: 7.02  
Response: 6210  
Amount: 1  
Conc: 196



### Manual Integration Results

RT: 7.04  
Response: 2126  
Amount: 0  
Conc: 67



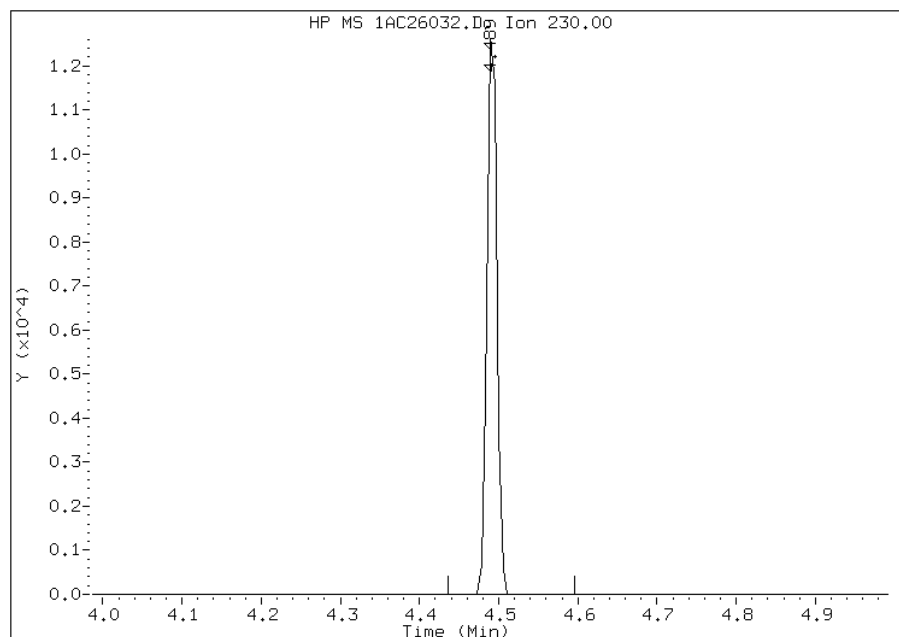
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:47  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC26032.D  
Inj. Date and Time: 26-MAR-2013 20:40  
Instrument ID: BSMA5973.i  
Client ID: CV1360S-CS  
Compound: 14 o-Terphenyl  
CAS #: 84-15-1  
Report Date: 03/27/2013

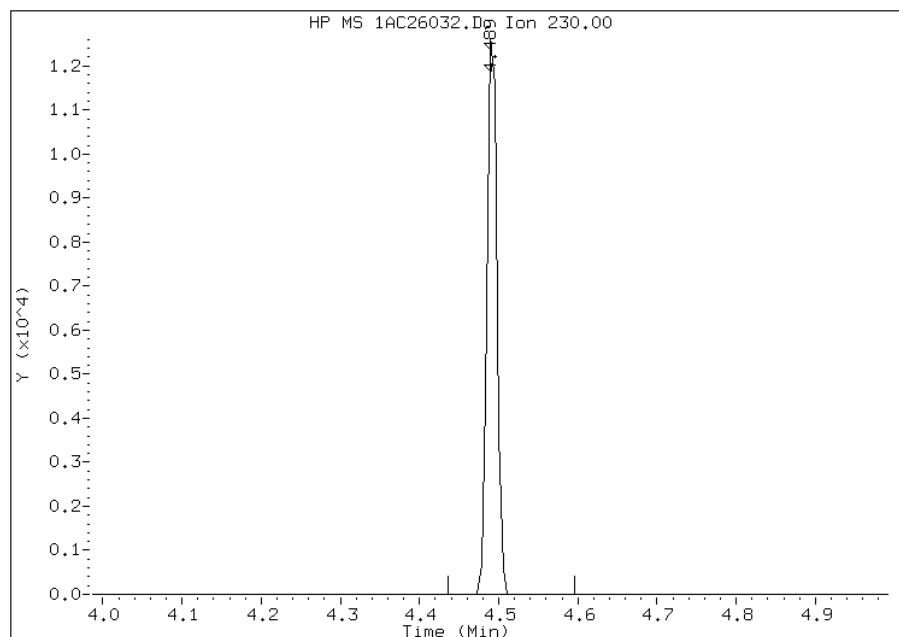
### Processing Integration Results

RT: 4.49  
Response: 10749  
Amount: 2  
Conc: 720



### Manual Integration Results

RT: 4.49  
Response: 10749  
Amount: 2  
Conc: 720



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 12:43  
Manual Integration Reason: Analyte not Identified by the Data System



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360T-CS</u>	Lab Sample ID: <u>680-88527-29</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26033.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 15:23</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.30 (g)</u>	Date Analyzed: <u>03/26/2013 20:54</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>34.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	60	U	60	7.5
120-12-7	Anthracene	8.7	J	13	6.3
56-55-3	Benzo[a]anthracene	54		12	5.8
50-32-8	Benzo[a]pyrene	23		16	7.8
205-99-2	Benzo[b]fluoranthene	160		18	9.1
191-24-2	Benzo[g,h,i]perylene	24	J	30	6.6
207-08-9	Benzo[k]fluoranthene	15		12	5.4
218-01-9	Chrysene	61		13	6.7
53-70-3	Dibenz(a,h)anthracene	11	J	30	6.1
206-44-0	Fluoranthene	69		30	6.0
86-73-7	Fluorene	30	U	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	30	11
90-12-0	1-Methylnaphthalene	14	J	60	6.6
91-57-6	2-Methylnaphthalene	100		60	11
91-20-3	Naphthalene	33	J	60	6.6
85-01-8	Phenanthrene	44		12	5.8
129-00-0	Pyrene	51		30	5.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26033.D  
 Lab Smp Id: 680-88527-A-29-A Client Smp ID: CV1360T-CS  
 Inj Date : 26-MAR-2013 20:54  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88527-A-29-A  
 Misc Info : 680-88527-A-29-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26033.D  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	34.526	% 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					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ug/ml) (ug/Kg)
*****	****	****	****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	2.283	2.272	(1.000)	409120	40.0000	
* 6 Acenaphthene-d10	164	3.303	3.287	(1.000)	308336	40.0000	
* 10 Phenanthrene-d10	188	4.222	4.205	(1.000)	471577	40.0000	
\$ 14 o-Terphenyl	230	4.495	4.478	(1.065)	46819	7.55875	754.5569
* 18 Chrysene-d12	240	6.220	6.193	(1.000)	462325	40.0000	(H)
* 23 Perylene-d12	264	7.310	7.272	(1.000)	433909	40.0000	
2 Naphthalene	128	2.288	2.282	(1.002)	3144	0.33263	33.2046
3 2-Methylnaphthalene	141	2.694	2.683	(1.180)	961	1.04663	104.4803
4 1-Methylnaphthalene	142	2.748	2.736	(1.204)	779	0.14333	14.3077
11 Phenanthrene	178	4.233	4.221	(1.003)	5218	0.43658	43.5818
12 Anthracene	178	4.265	4.253	(1.010)	1005	0.08672	8.6568(Q)
13 Carbazole	167	4.430	4.408	(1.049)	1035	0.10190	10.1717(Q)
15 Fluoranthene	202	5.082	5.065	(1.204)	8141	0.68907	68.7868
16 Pyrene	202	5.248	5.226	(0.844)	6817	0.51426	51.3363

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	6.204	6.177 (0.997)		5027	0.54331	54.2366(H)
19 Chrysene	228	6.231	6.209 (1.002)		7311	0.61055	60.9488(H)
20 Benzo(b)fluoranthene	252	7.027	6.994 (0.961)		5223	1.63953	163.6674(M)
21 Benzo(k)fluoranthene	252	7.037	7.015 (0.963)		1750	0.14952	14.9256(QMH)
22 Benzo(a)pyrene	252	7.251	7.224 (0.992)		2318	0.22764	22.7238
24 Indeno(1,2,3-cd)pyrene	276	7.999	7.972 (1.094)		2078	0.22616	22.5767(M)
25 Dibenzo(a,h)anthracene	278	8.015	7.982 (1.096)		992	0.10894	10.8745
26 Benzo(g,h,i)perylene	276	8.186	8.148 (1.120)		2216	0.23960	23.9181

#### QC Flag Legend

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

Data File: 1AC26033.D

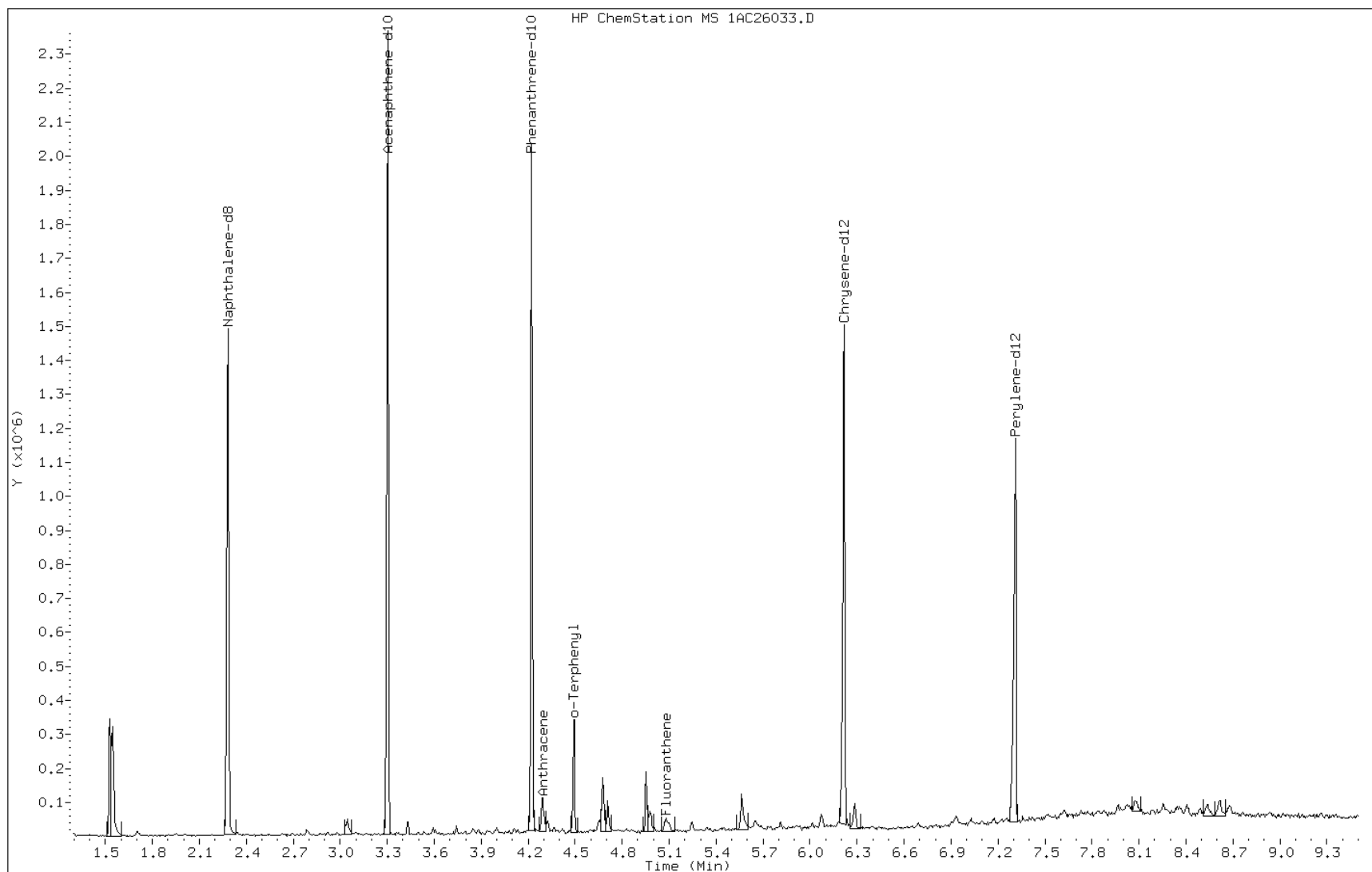
Date: 26-MAR-2013 20:54

Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

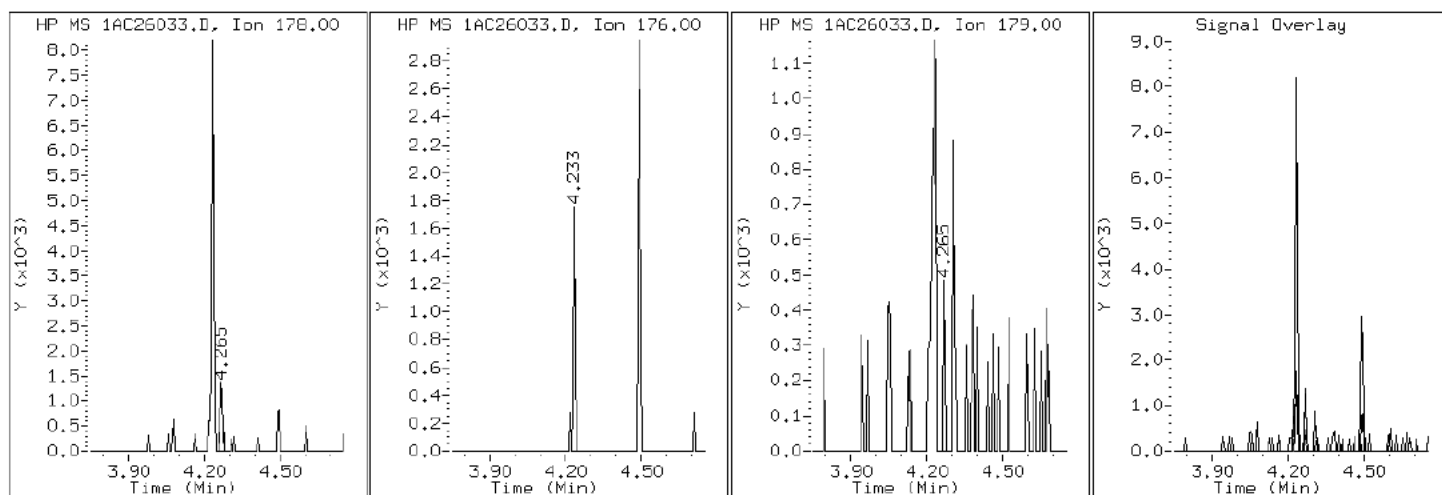
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

12 Anthracene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

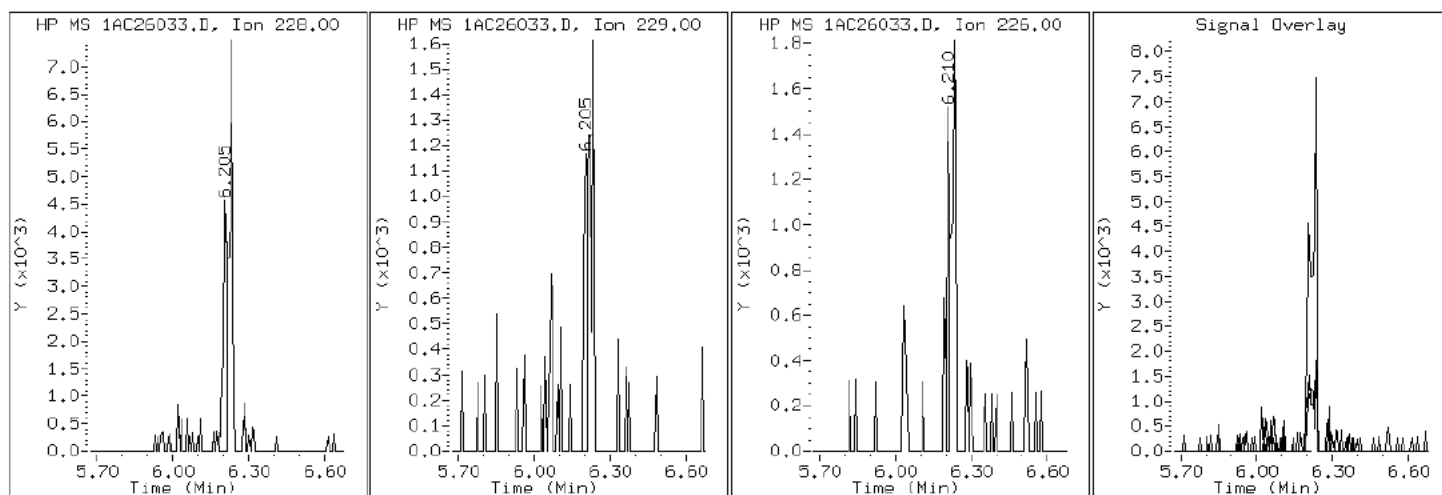
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

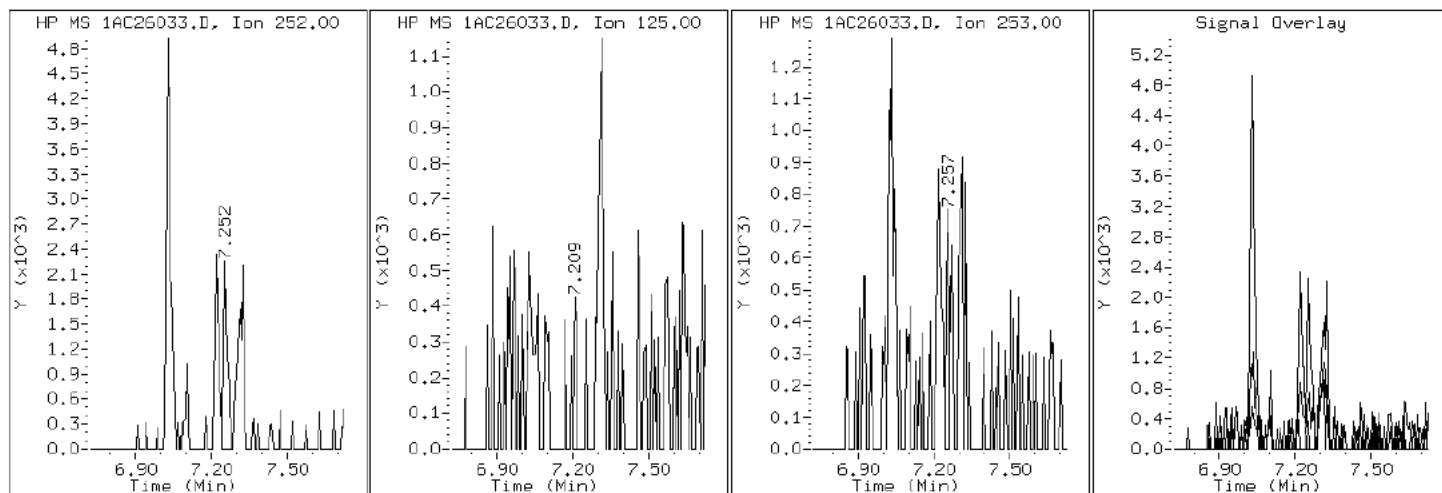
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

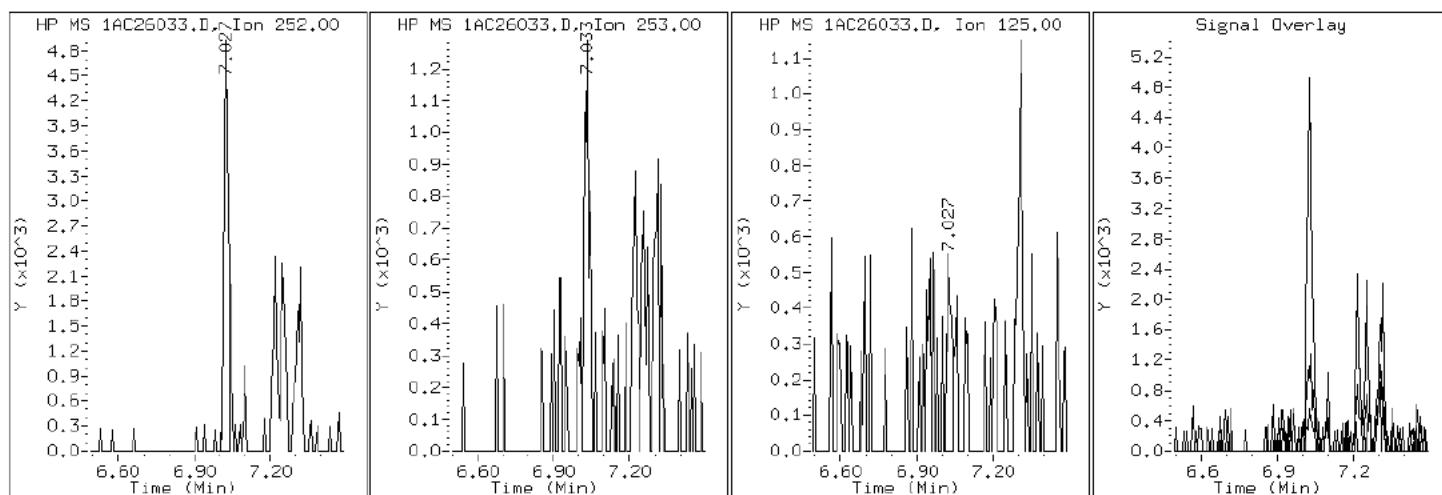
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

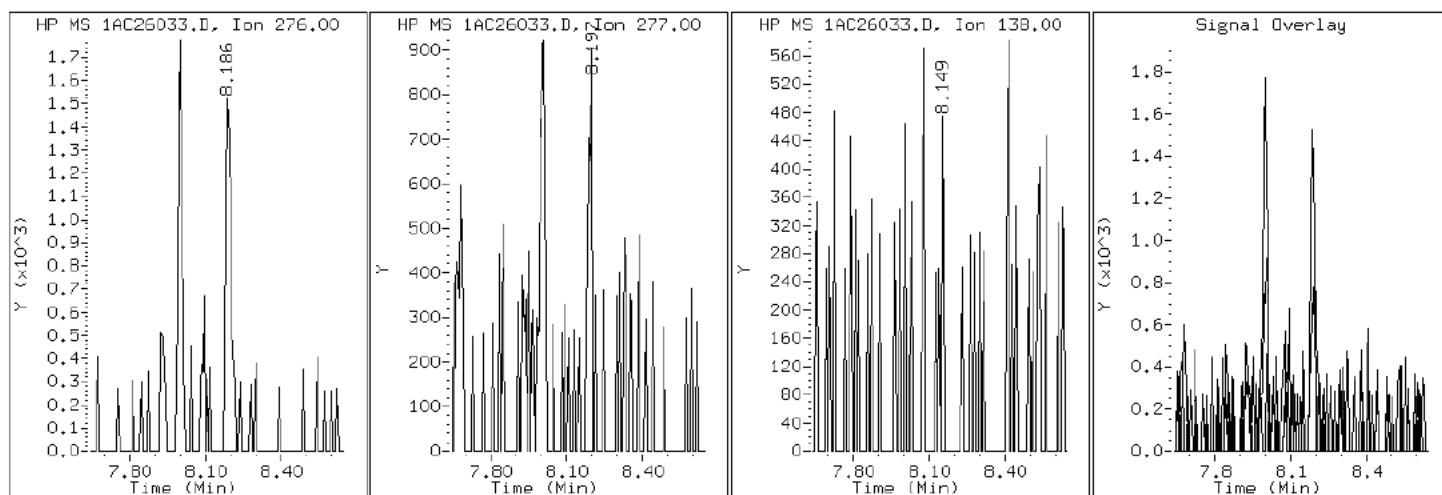
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

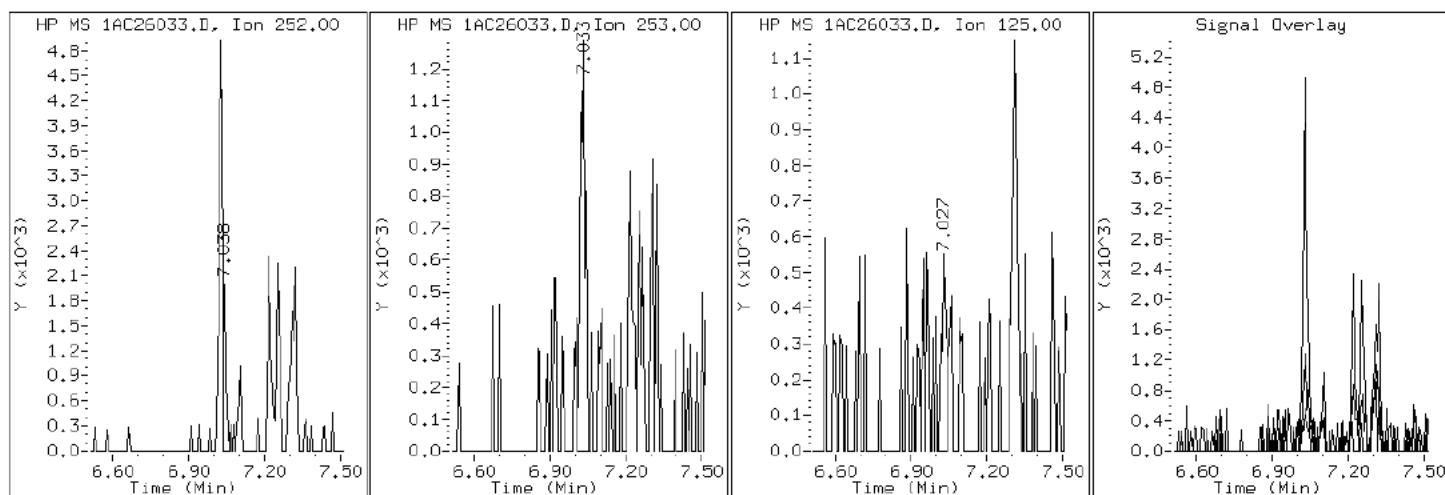
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

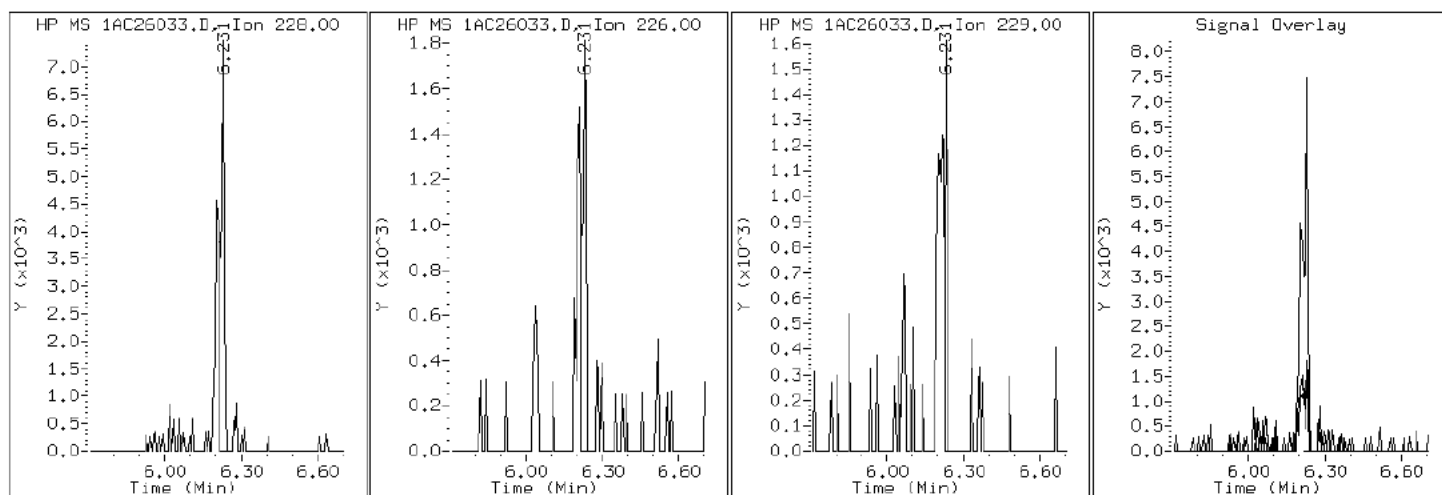
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

19 Chrysene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

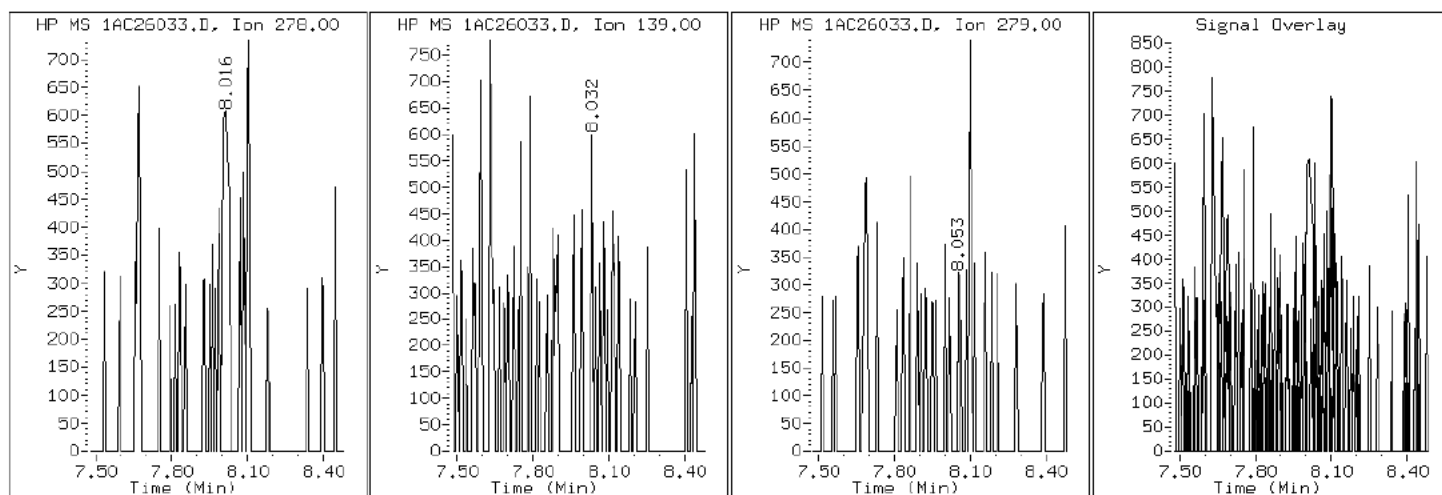
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

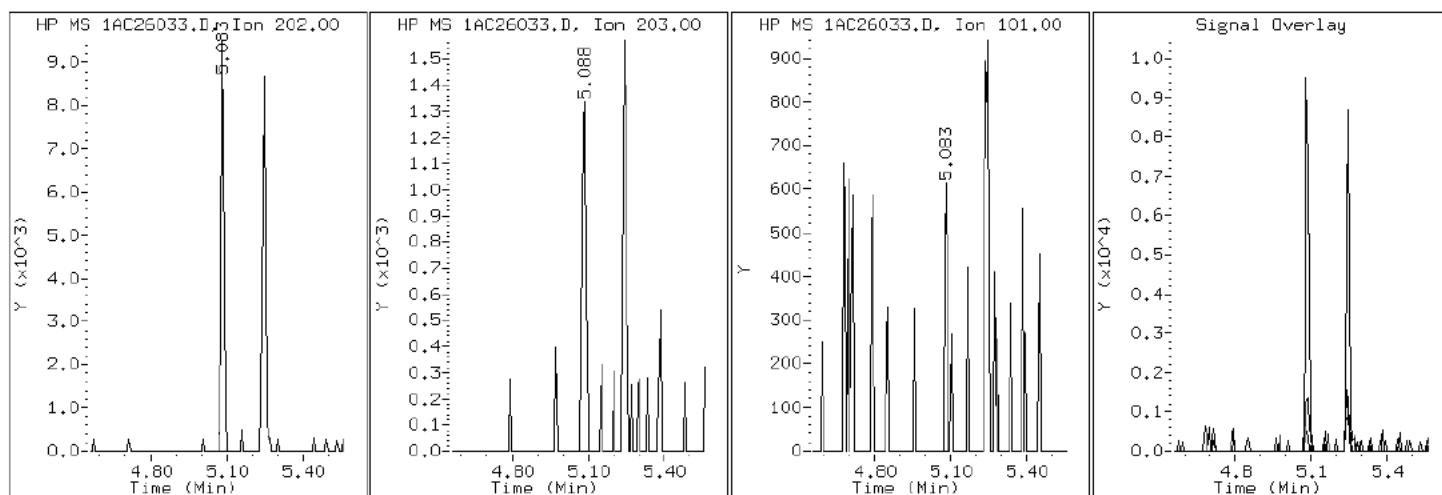
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

15 Fluoranthene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

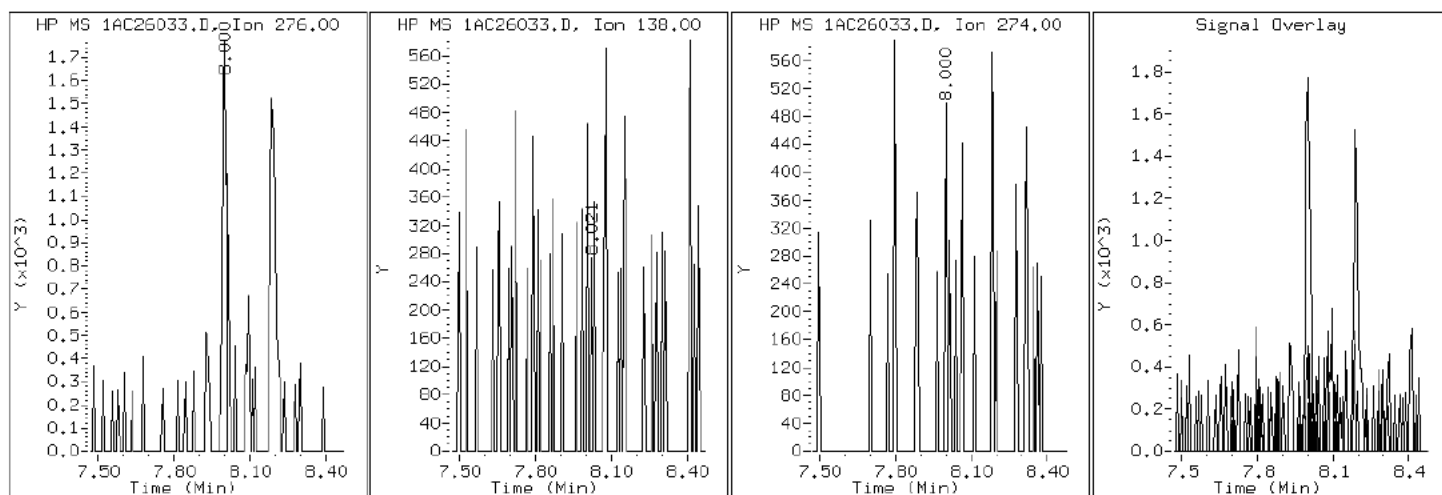
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

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



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

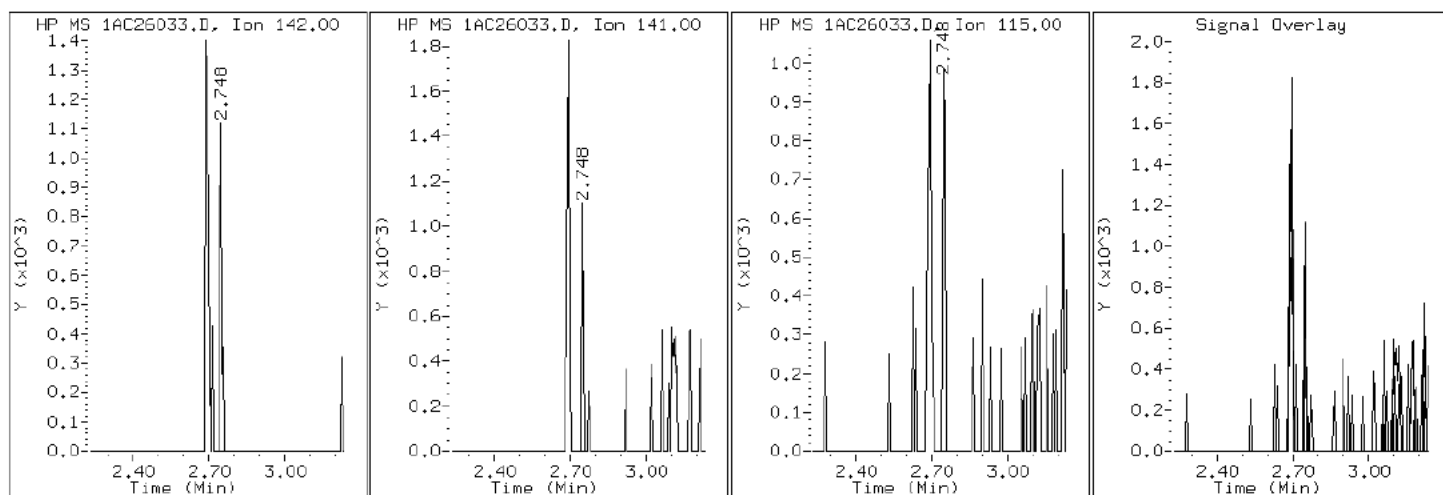
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

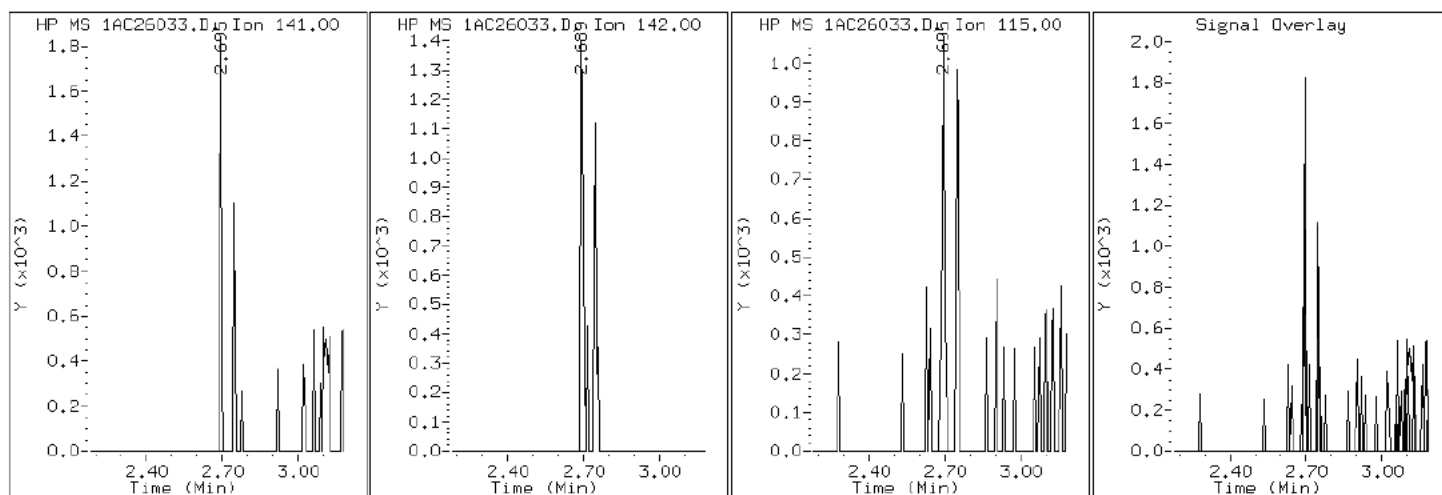
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

3 2-Methylnaphthalene





Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

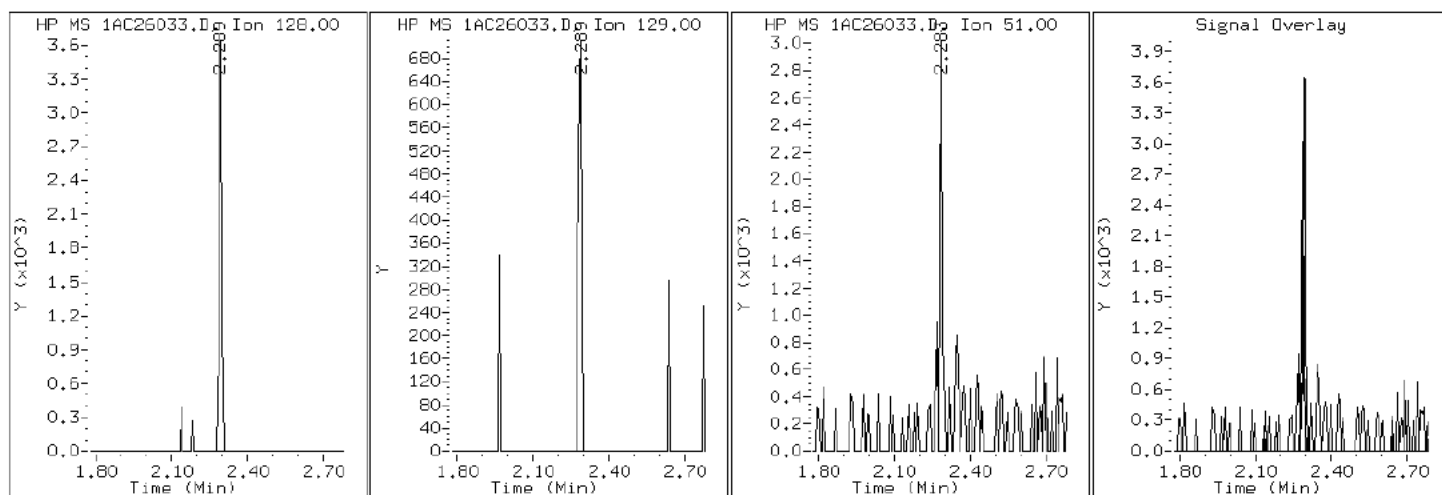
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

2 Naphthalene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

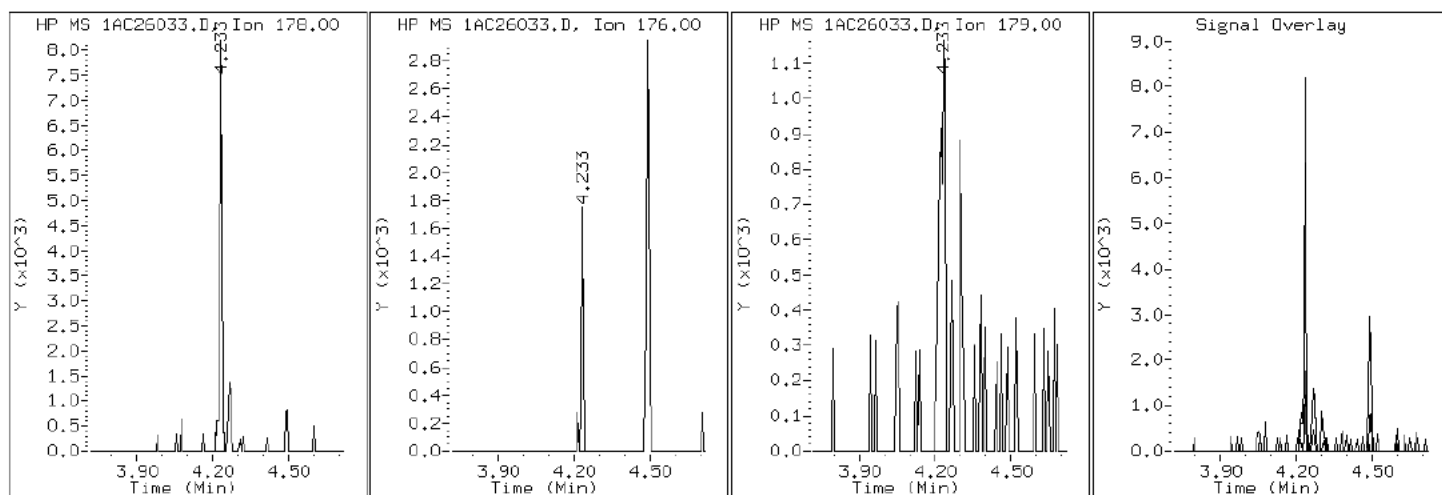
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26033.D

Date: 26-MAR-2013 20:54

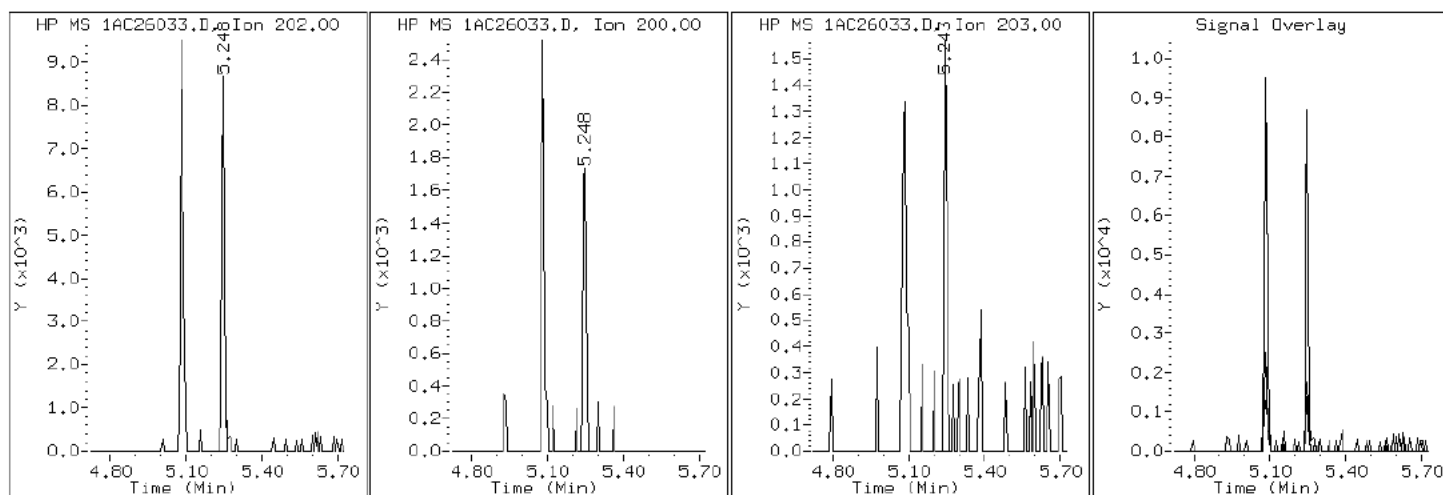
Client ID: CV1360T-CS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-29-A

Operator: SCC

16 Pyrene

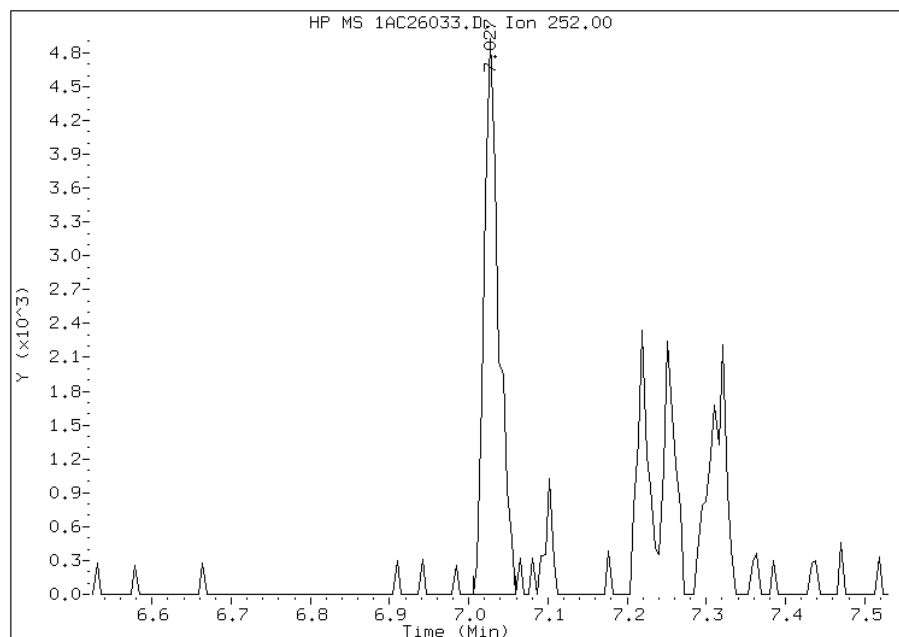


## Manual Integration Report

Data File: 1AC26033.D  
Inj. Date and Time: 26-MAR-2013 20:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360T-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

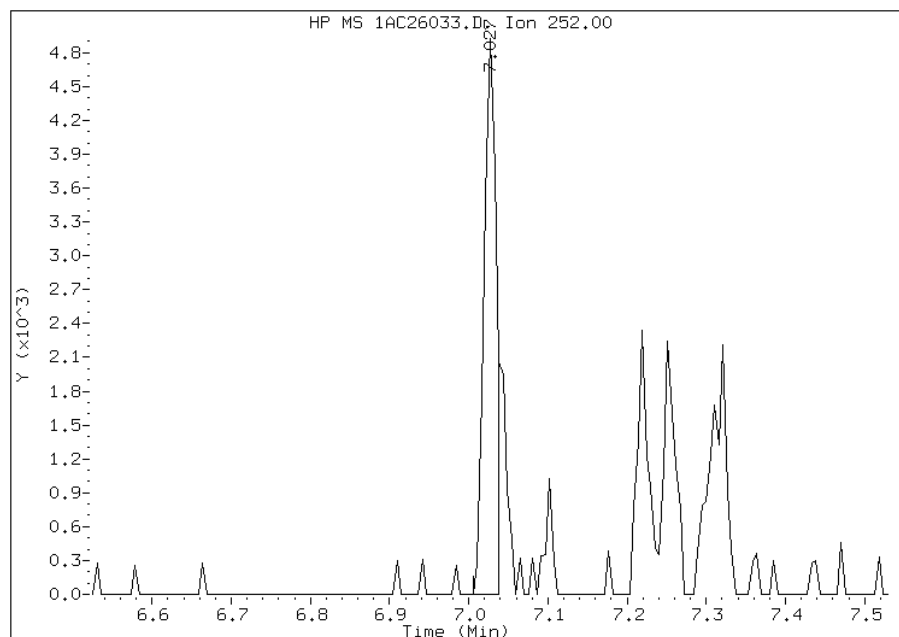
### Processing Integration Results

RT: 7.03  
Response: 6300  
Amount: 2  
Conc: 173



### Manual Integration Results

RT: 7.03  
Response: 5223  
Amount: 2  
Conc: 164



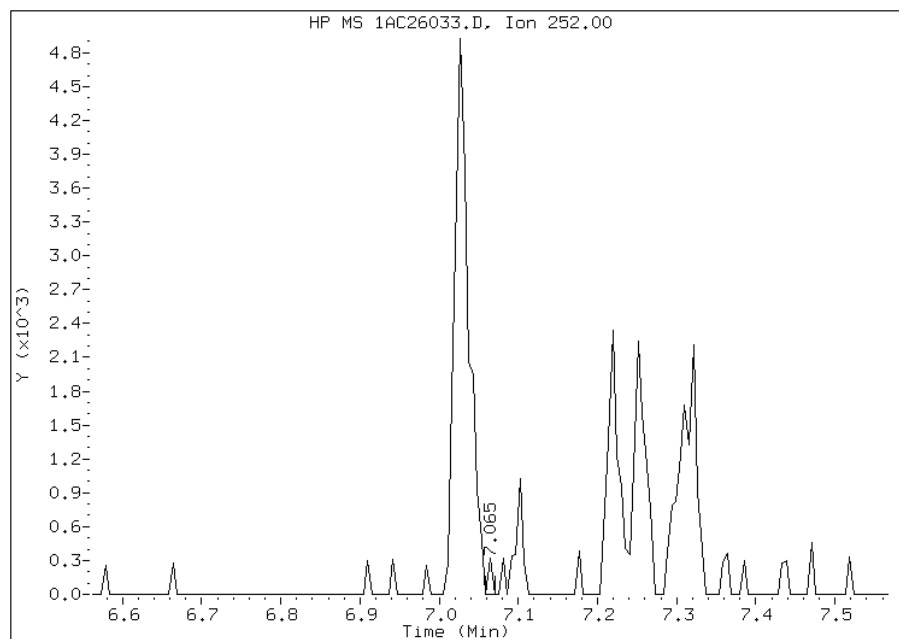
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:49  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26033.D  
Inj. Date and Time: 26-MAR-2013 20:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360T-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

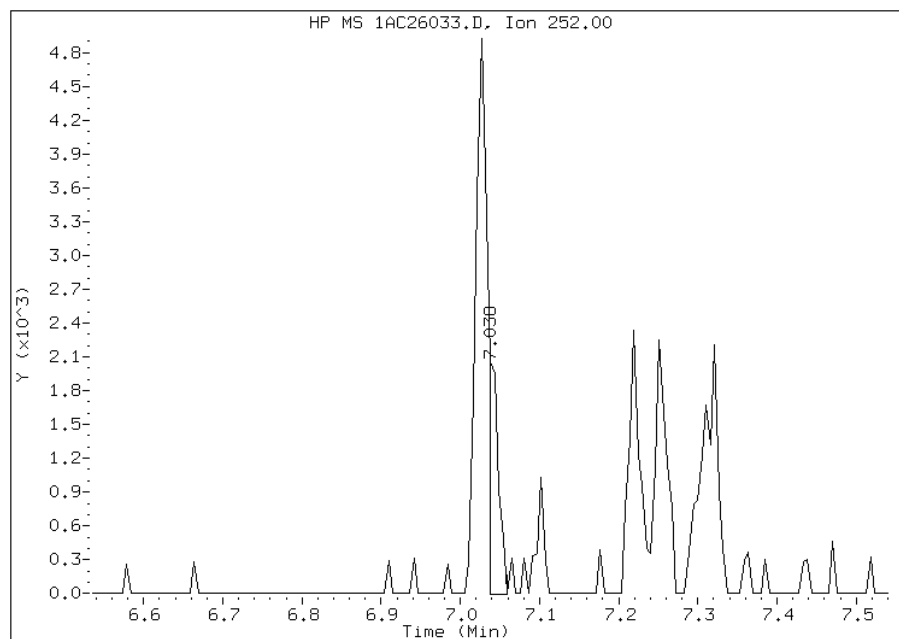
### Processing Integration Results

RT: 7.06  
Response: 101  
Amount: 0  
Conc: 1



### Manual Integration Results

RT: 7.04  
Response: 1750  
Amount: 0  
Conc: 15



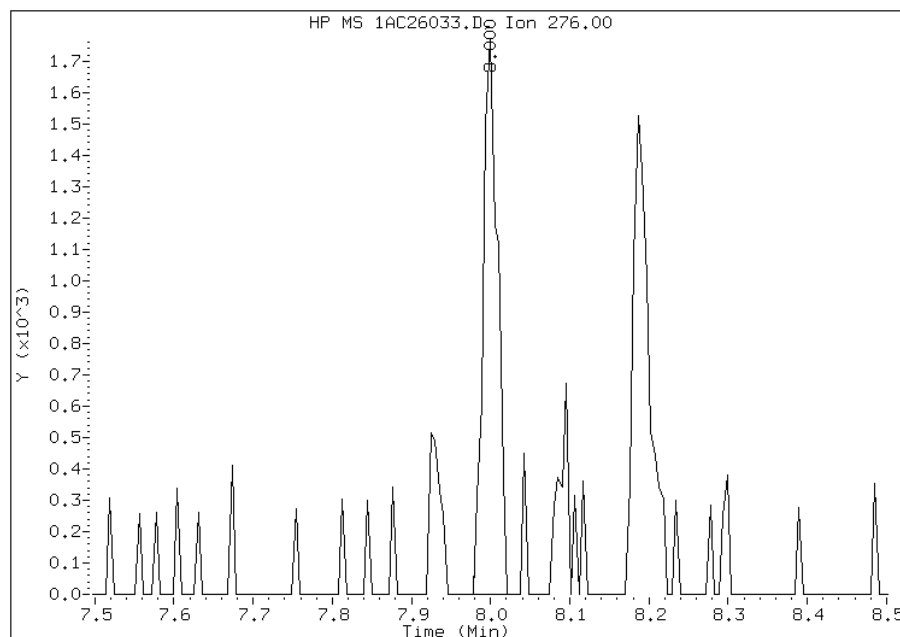
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:49  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC26033.D  
Inj. Date and Time: 26-MAR-2013 20:54  
Instrument ID: BSMA5973.i  
Client ID: CV1360T-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

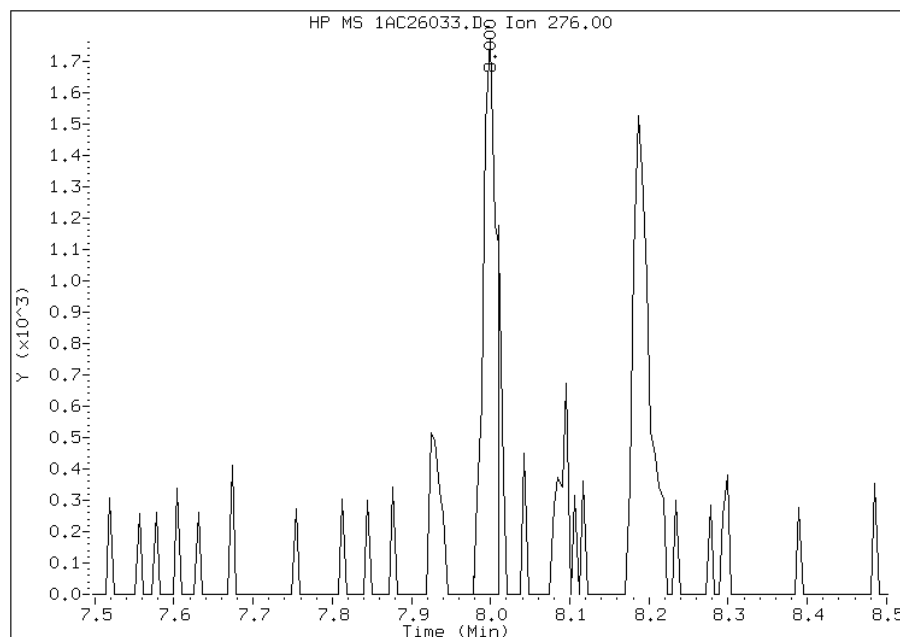
### Processing Integration Results

RT: 8.00  
Response: 2198  
Amount: 0  
Conc: 24



### Manual Integration Results

RT: 8.00  
Response: 2078  
Amount: 0  
Conc: 23



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360AB-GS</u>	Lab Sample ID: <u>680-88527-30</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1AC26034.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.06(g)</u>	Date Analyzed: <u>03/26/2013 21:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>13.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135850</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	28	J	46	5.8
120-12-7	Anthracene	28		9.7	4.9
56-55-3	Benzo[a]anthracene	110		9.3	4.5
50-32-8	Benzo[a]pyrene	80		12	6.0
205-99-2	Benzo[b]fluoranthene	220		14	7.1
191-24-2	Benzo[g,h,i]perylene	56		23	5.1
207-08-9	Benzo[k]fluoranthene	53		9.3	4.2
218-01-9	Chrysene	160		10	5.2
53-70-3	Dibenz(a,h)anthracene	24		23	4.7
206-44-0	Fluoranthene	160		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	41		23	8.2
90-12-0	1-Methylnaphthalene	30	J	46	5.1
91-57-6	2-Methylnaphthalene	100		46	8.2
91-20-3	Naphthalene	41	J	46	5.1
85-01-8	Phenanthrene	110		9.3	4.5
129-00-0	Pyrene	170		23	4.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26034.D  
 Lab Smp Id: 680-88527-A-30-A Client Smp ID: CV1360AB-GS  
 Inj Date : 26-MAR-2013 21:10  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : 680-88527-A-30-A  
 Misc Info : 680-88527-A-30-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1a-bFASTPAHi-m.m  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	13.915	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	2.282	2.272	(1.000)	383839	40.0000			
* 6 Acenaphthene-d10	164	3.302	3.287	(1.000)	305451	40.0000			
* 10 Phenanthrene-d10	188	4.221	4.205	(1.000)	442327	40.0000			
\$ 14 o-Terphenyl	230	4.494	4.478	(1.065)	43871	7.55150	582.4800		
* 18 Chrysene-d12	240	6.219	6.193	(1.000)	354704	40.0000	(H)		
* 23 Perylene-d12	264	7.314	7.272	(1.000)	452808	40.0000	(H)		
2 Naphthalene	128	2.293	2.282	(1.005)	4745	0.53507	41.2724		
3 2-Methylnaphthalene	141	2.693	2.683	(1.180)	2441	1.32959	102.5569		
4 1-Methylnaphthalene	142	2.747	2.736	(1.204)	1988	0.38986	30.0716		
5 Acenaphthylene	152	3.217	3.201	(0.974)	2155	0.36337	28.0286		
11 Phenanthrene	178	4.237	4.221	(1.004)	15502	1.38279	106.6607		
12 Anthracene	178	4.269	4.253	(1.011)	4009	0.36881	28.4476		
13 Carbazole	167	4.435	4.408	(1.051)	1978	0.20761	16.0138		
15 Fluoranthene	202	5.087	5.065	(1.205)	22701	2.04852	158.0113		



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Pyrene	202	5.247	5.226	(0.844)	22151	2.17803	168.0012(H)
17 Benzo(a)anthracene	228	6.214	6.177	(0.999)	12750	1.40792	108.5989(H)
19 Chrysene	228	6.235	6.209	(1.003)	19194	2.08926	161.1541(H)
20 Benzo(b)fluoranthene	252	7.031	6.994	(0.961)	19788	2.78864	215.0998(MH)
21 Benzo(k)fluoranthene	252	7.042	7.015	(0.963)	8404	0.68806	53.0728(QMH)
22 Benzo(a)pyrene	252	7.261	7.224	(0.993)	11090	1.04362	80.4989(H)
24 Indeno(1,2,3-cd)pyrene	276	8.009	7.972	(1.095)	5079	0.52971	40.8586(MH)
25 Dibenzo(a,h)anthracene	278	8.009	7.982	(1.095)	2908	0.30601	23.6039(H)
26 Benzo(g,h,i)perylene	276	8.207	8.148	(1.122)	7049	0.73034	56.3346(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: 1AC26034.D

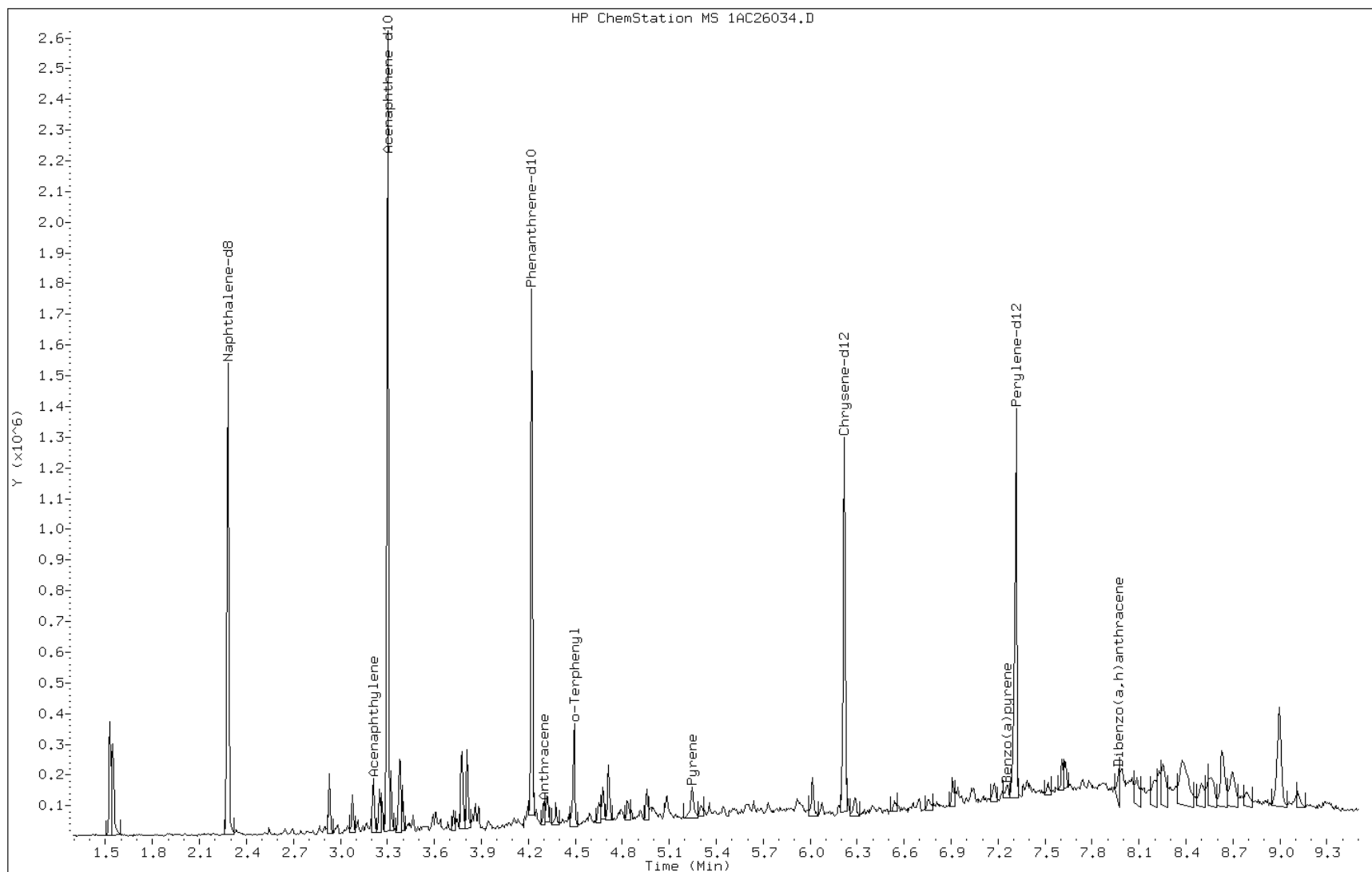
Date: 26-MAR-2013 21:10

Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

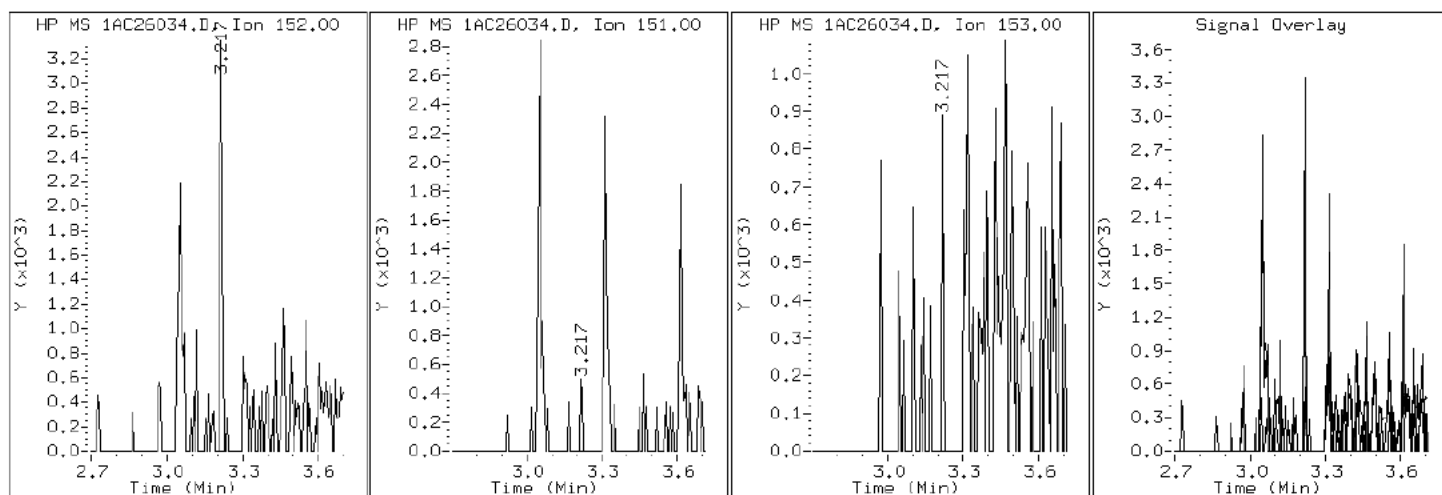
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

5 Acenaphthylene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

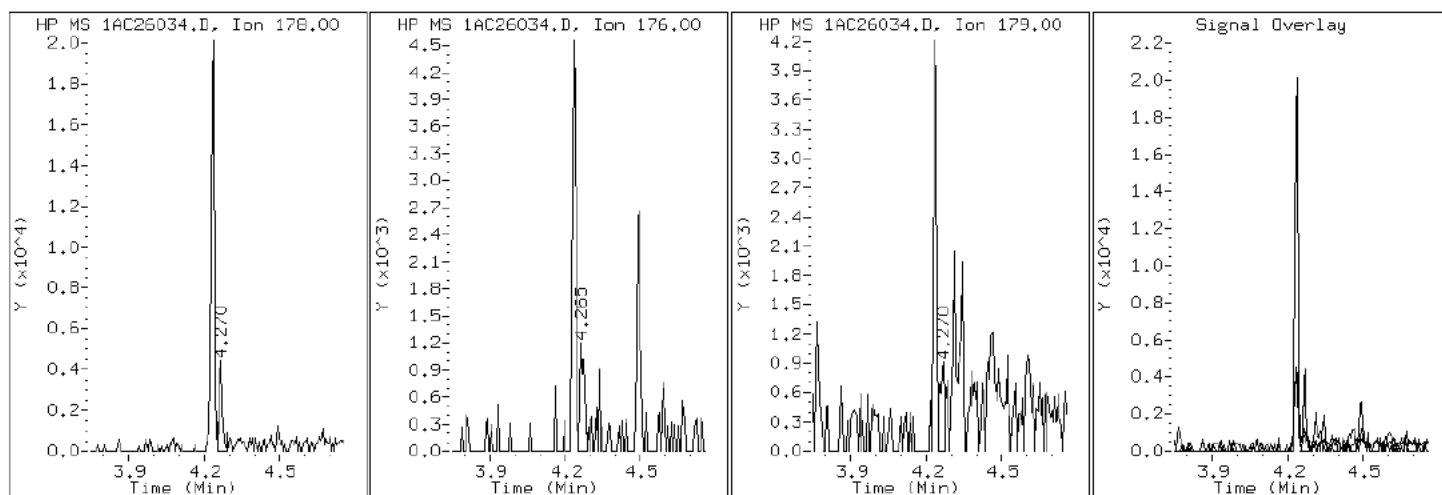
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

12 Anthracene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

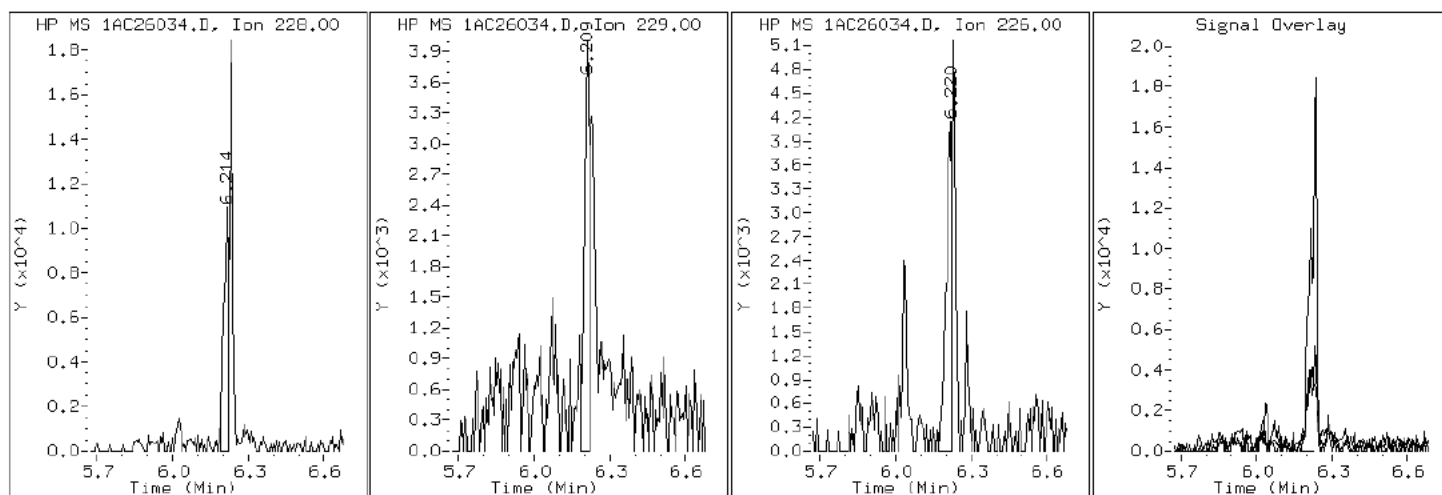
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

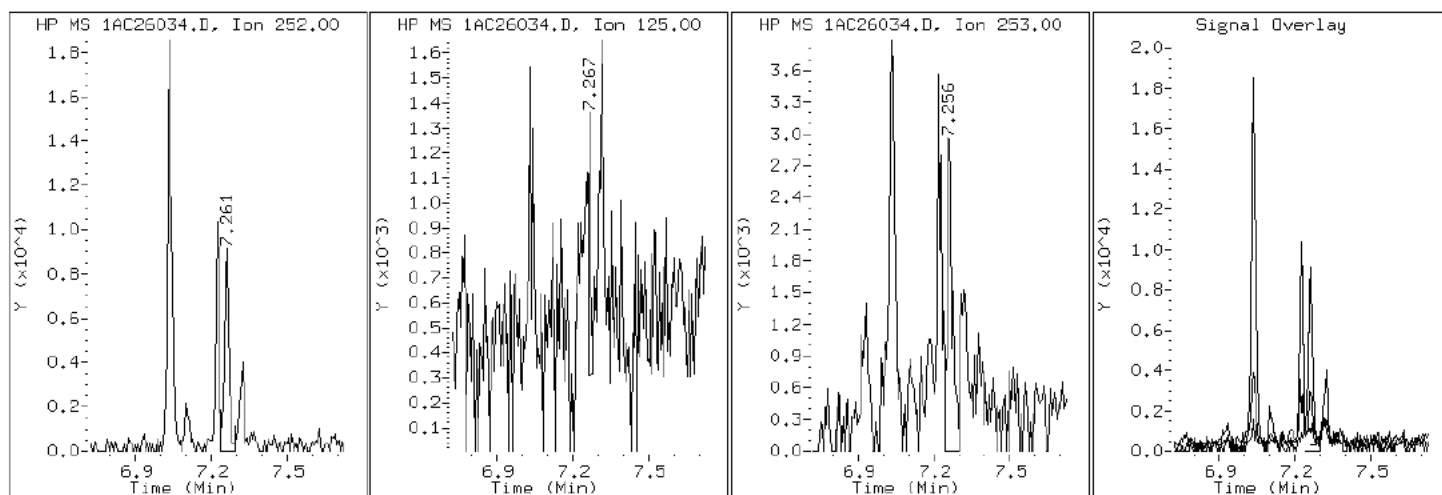
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

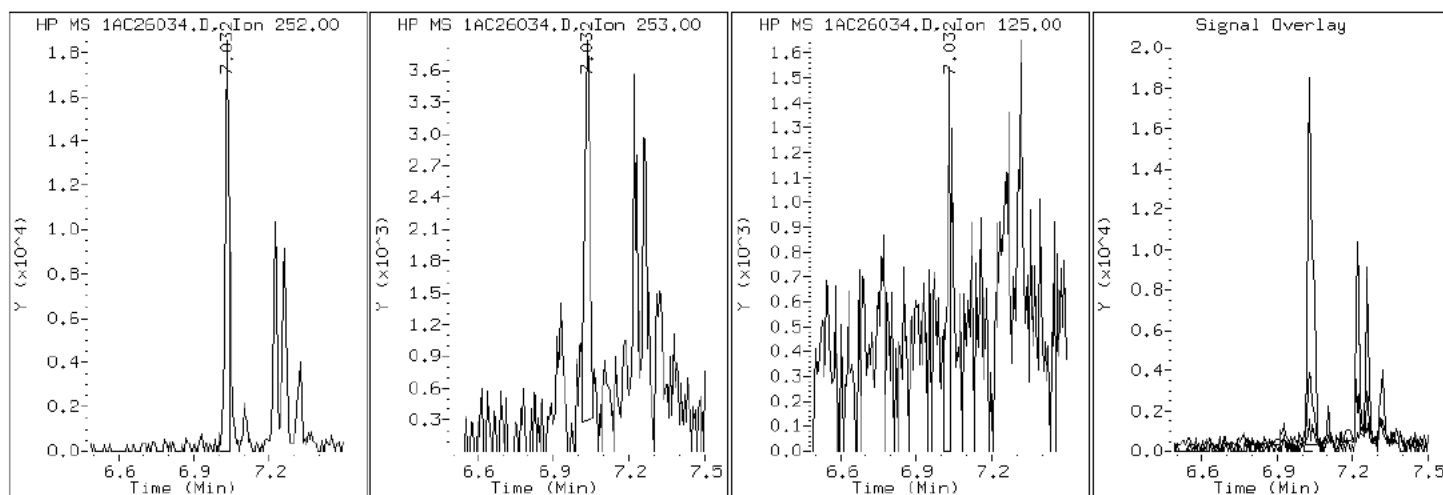
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

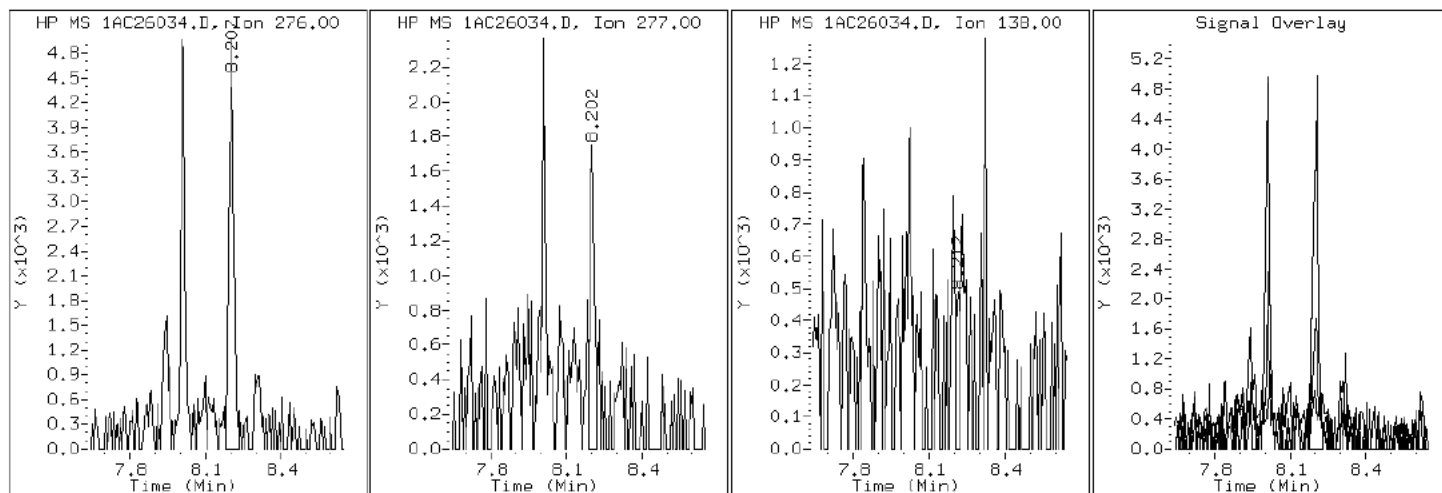
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

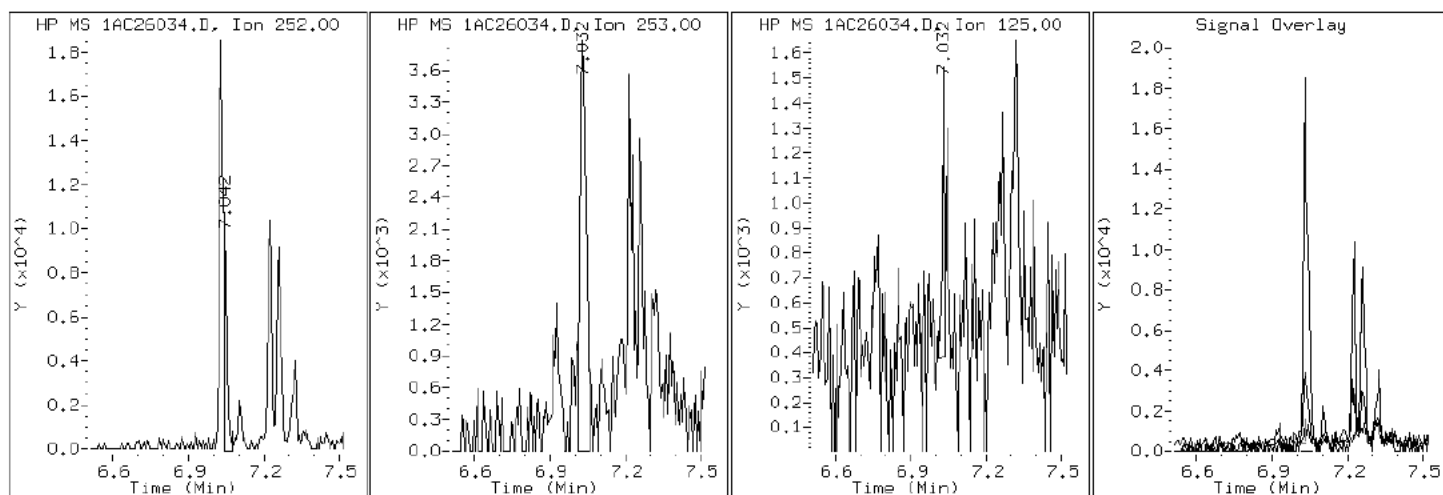
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

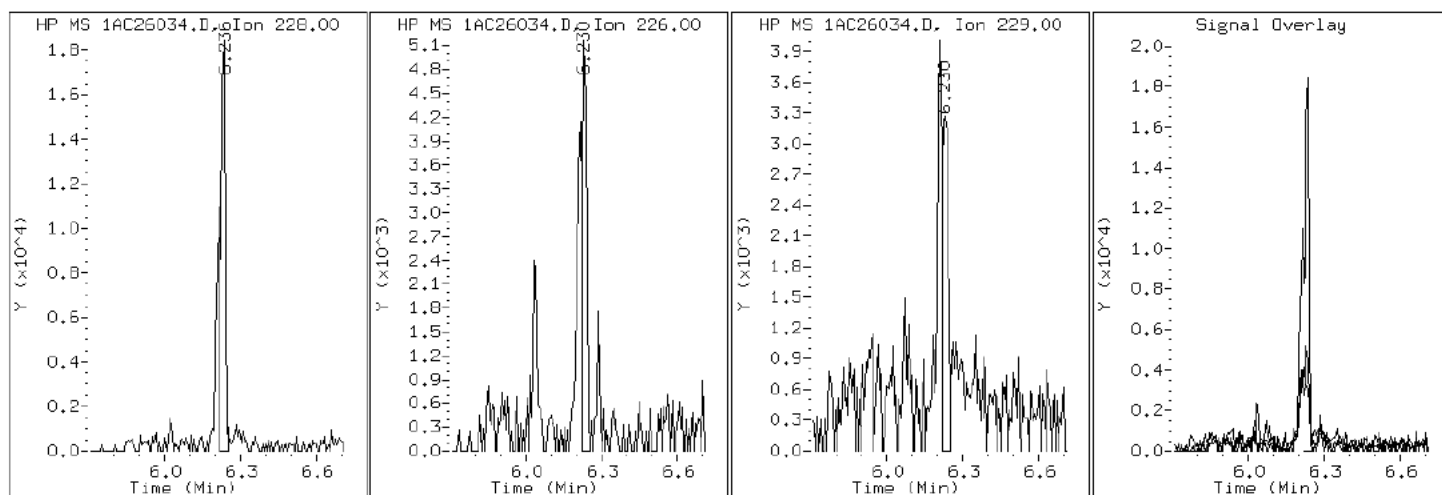
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

19 Chrysene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

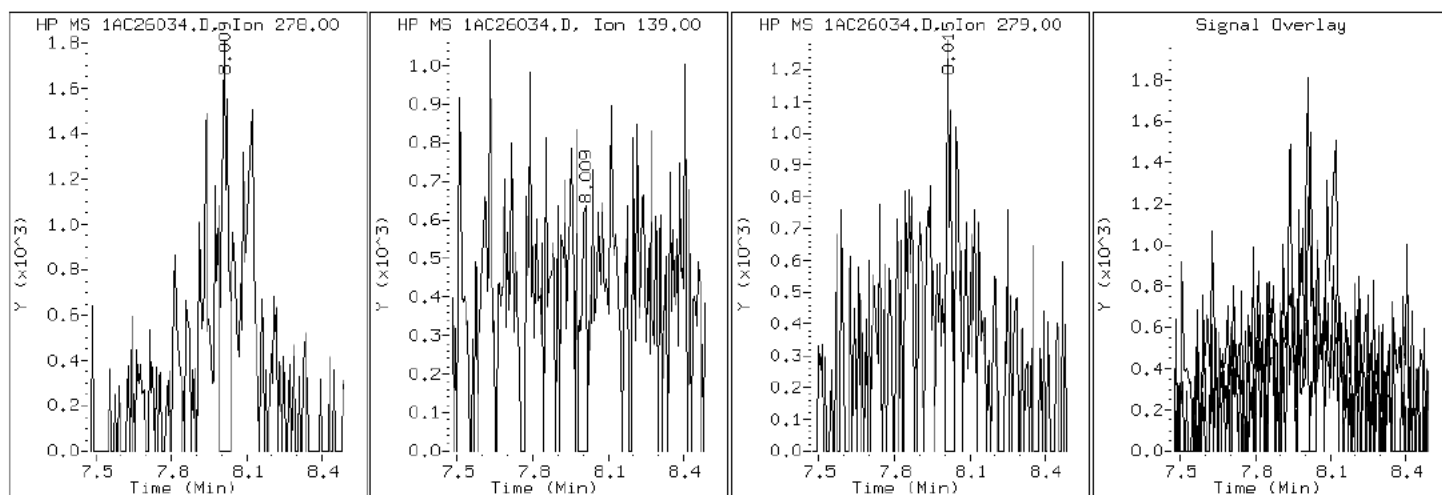
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

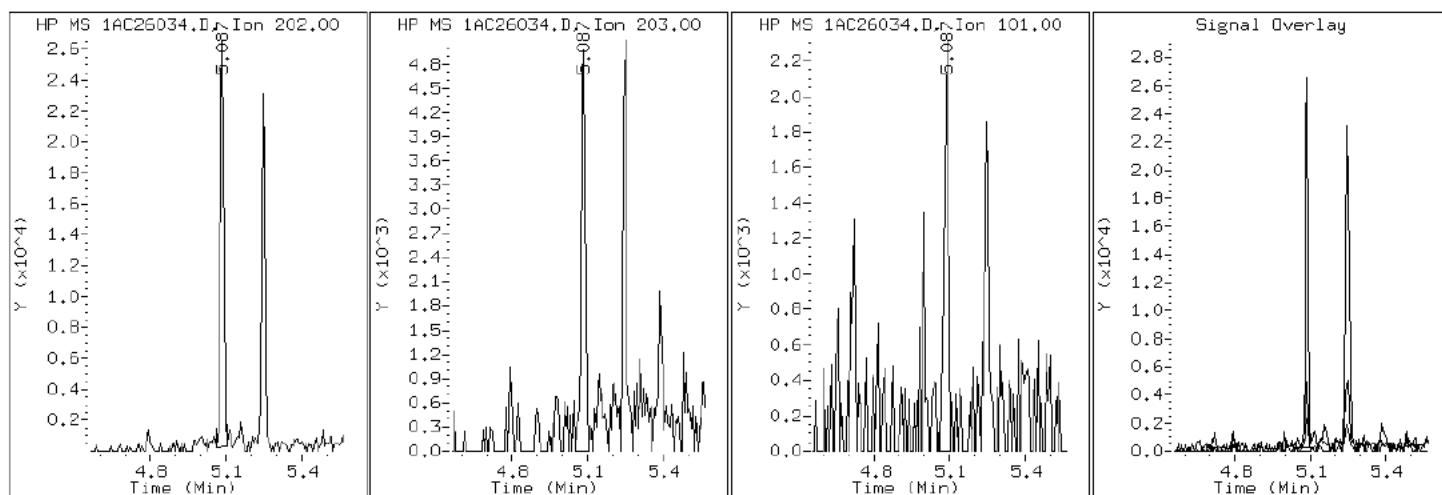
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

15 Fluoranthene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

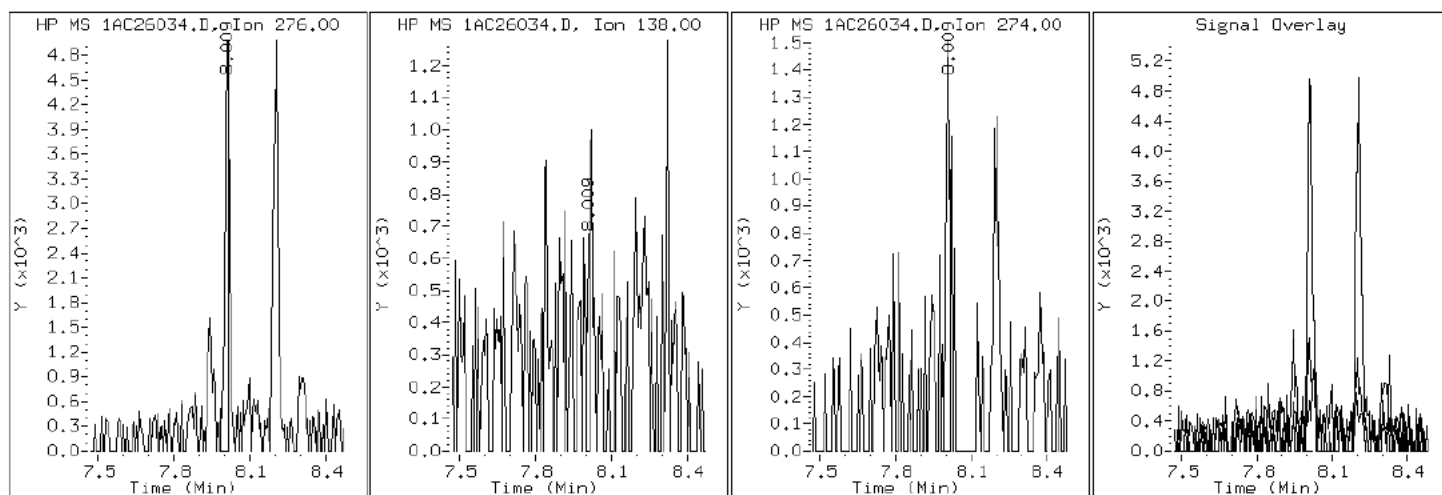
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

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



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

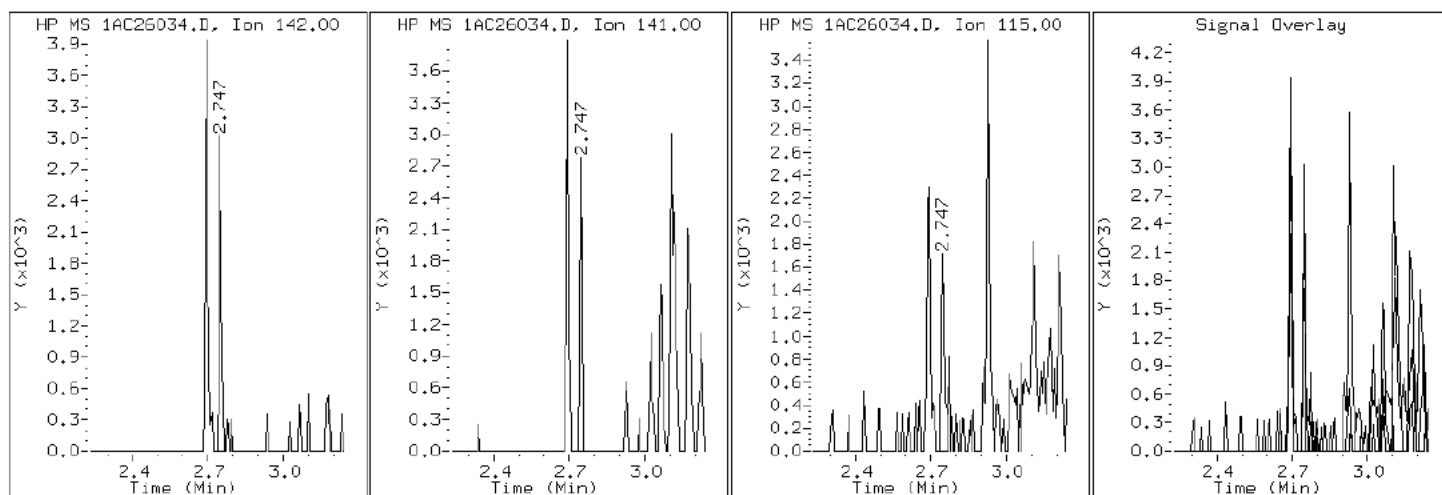
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

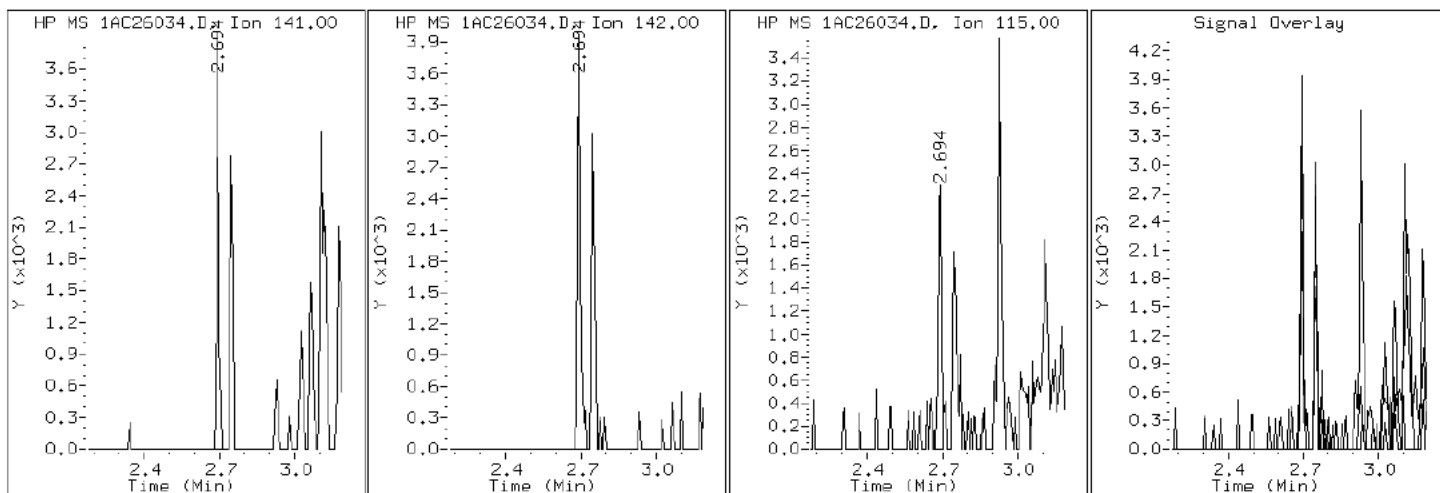
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

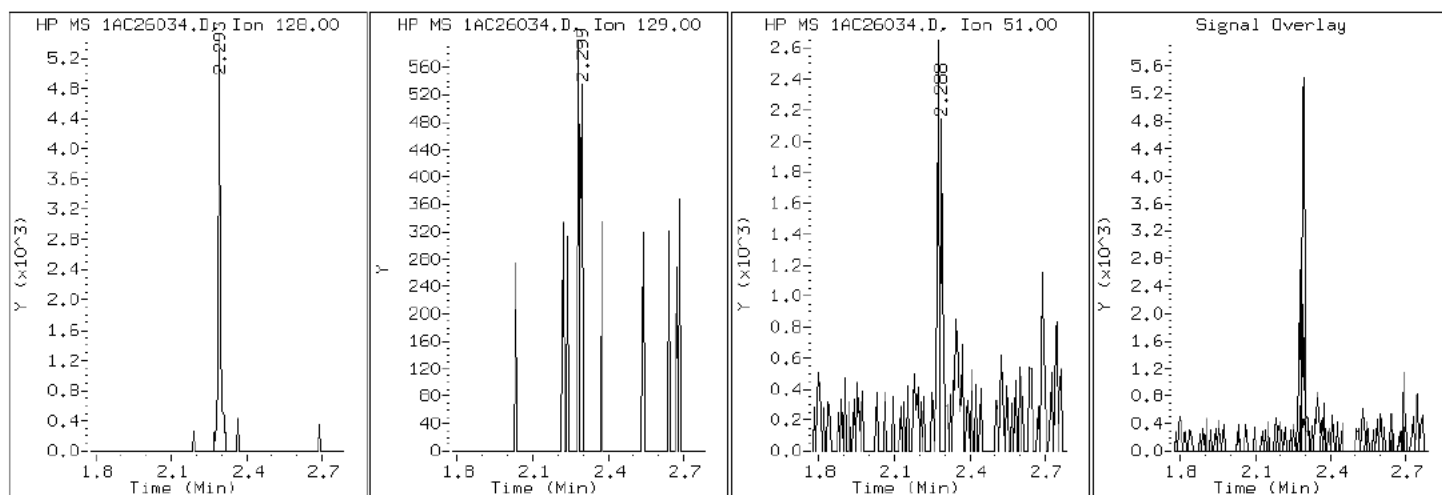
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

## 2 Naphthalene





Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

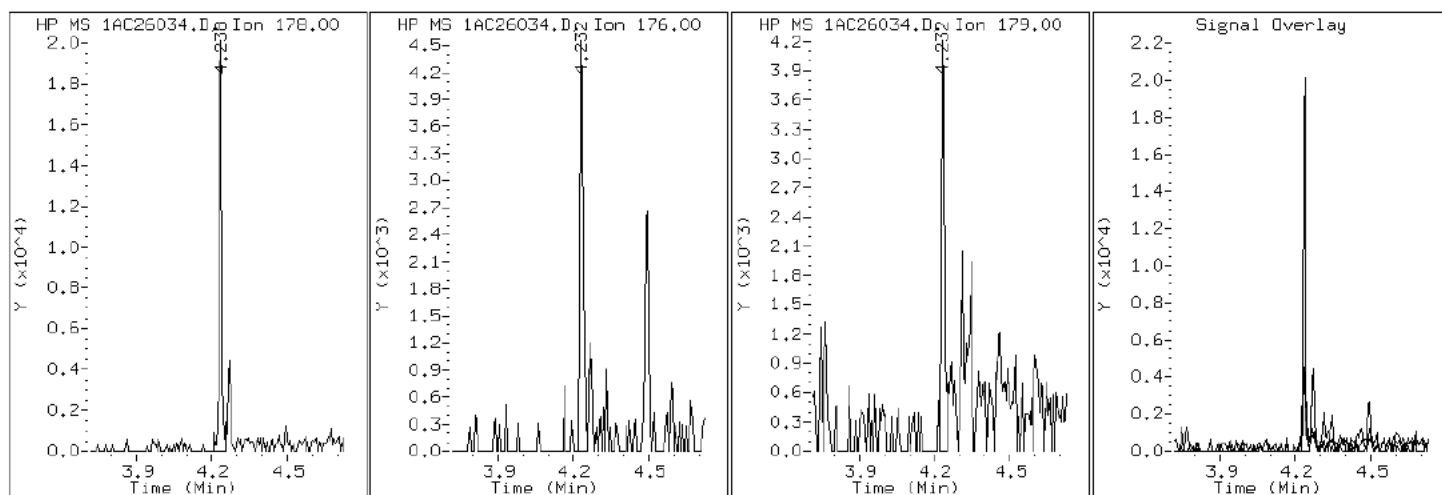
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

11 Phenanthrene



Data File: 1AC26034.D

Date: 26-MAR-2013 21:10

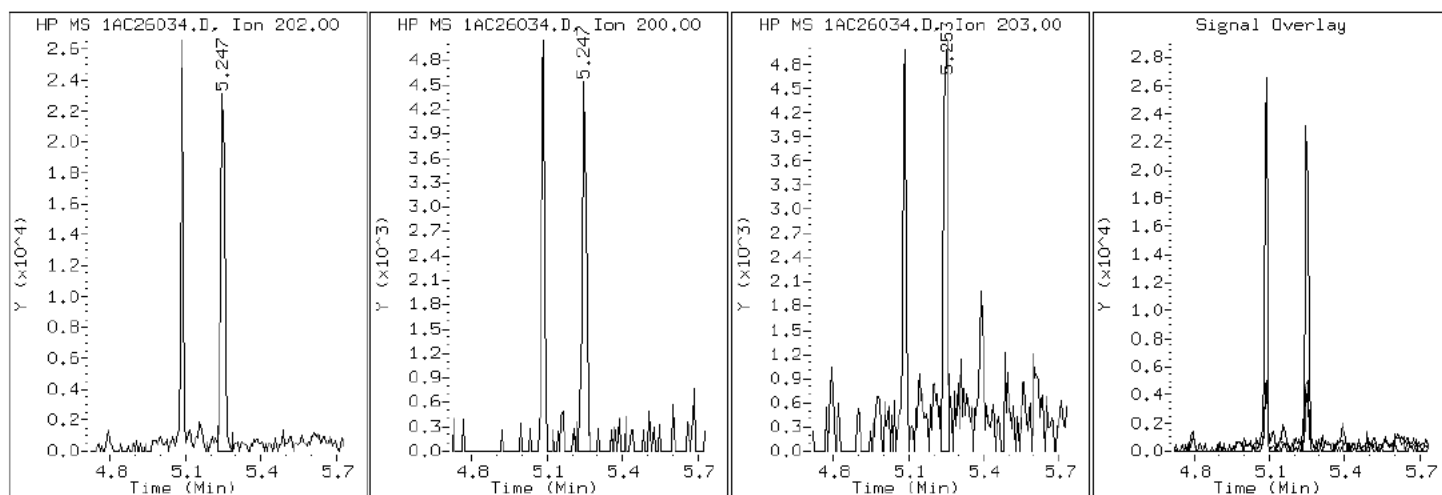
Client ID: CV1360AB-GS

Instrument: BSMA5973.i

Sample Info: 680-88527-A-30-A

Operator: SCC

16 Pyrene

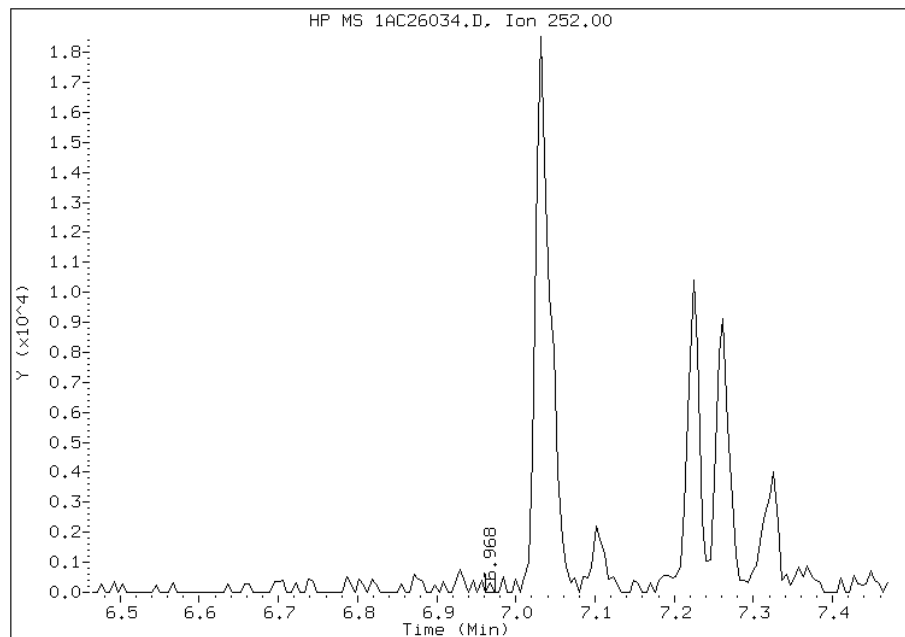


## Manual Integration Report

Data File: 1AC26034.D  
Inj. Date and Time: 26-MAR-2013 21:10  
Instrument ID: BSMA5973.i  
Client ID: CV1360AB-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/27/2013

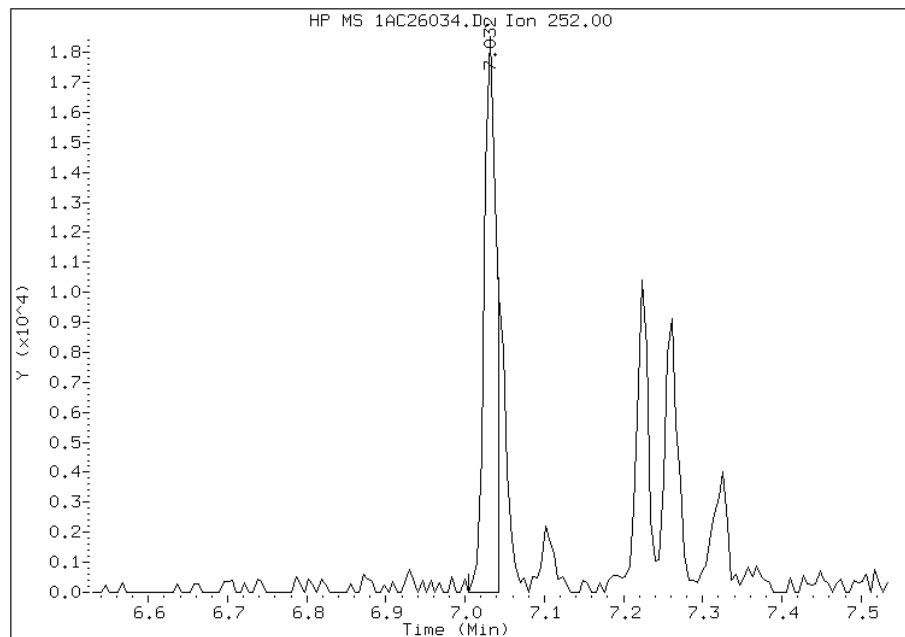
### Processing Integration Results

RT: 6.97  
Response: 97  
Amount: 1  
Conc: 93



### Manual Integration Results

RT: 7.03  
Response: 19788  
Amount: 3  
Conc: 215



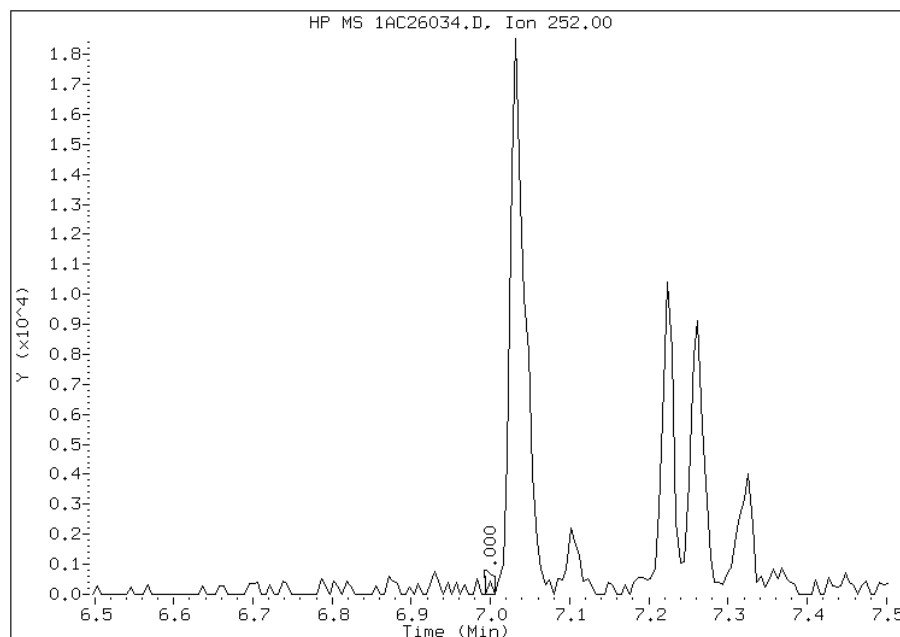
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:54  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1AC26034.D  
Inj. Date and Time: 26-MAR-2013 21:10  
Instrument ID: BSMA5973.i  
Client ID: CV1360AB-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/27/2013

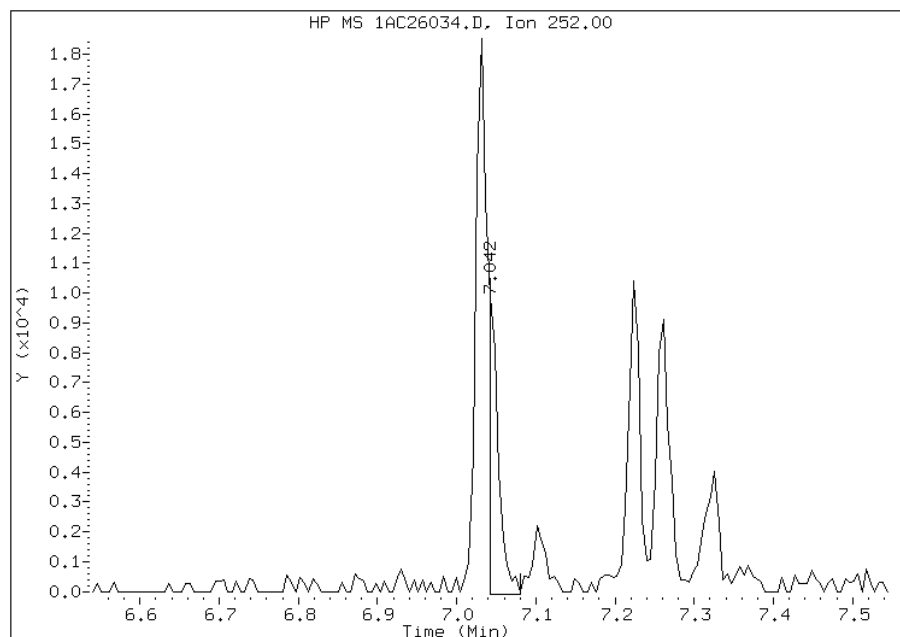
### Processing Integration Results

RT: 7.00  
Response: 146  
Amount: 0  
Conc: 1



### Manual Integration Results

RT: 7.04  
Response: 8404  
Amount: 1  
Conc: 53



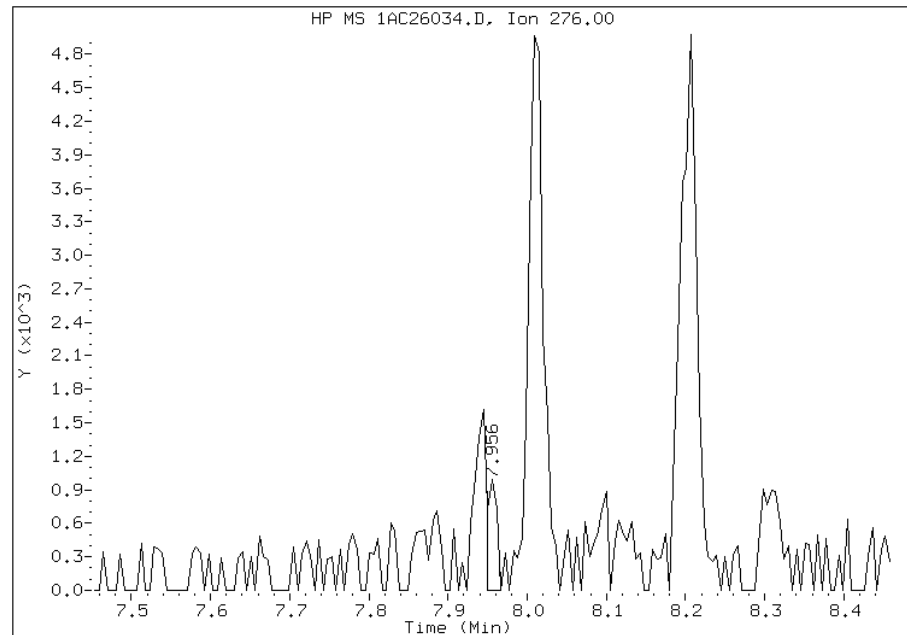
Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:54  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC26034.D  
Inj. Date and Time: 26-MAR-2013 21:10  
Instrument ID: BSMA5973.i  
Client ID: CV1360AB-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

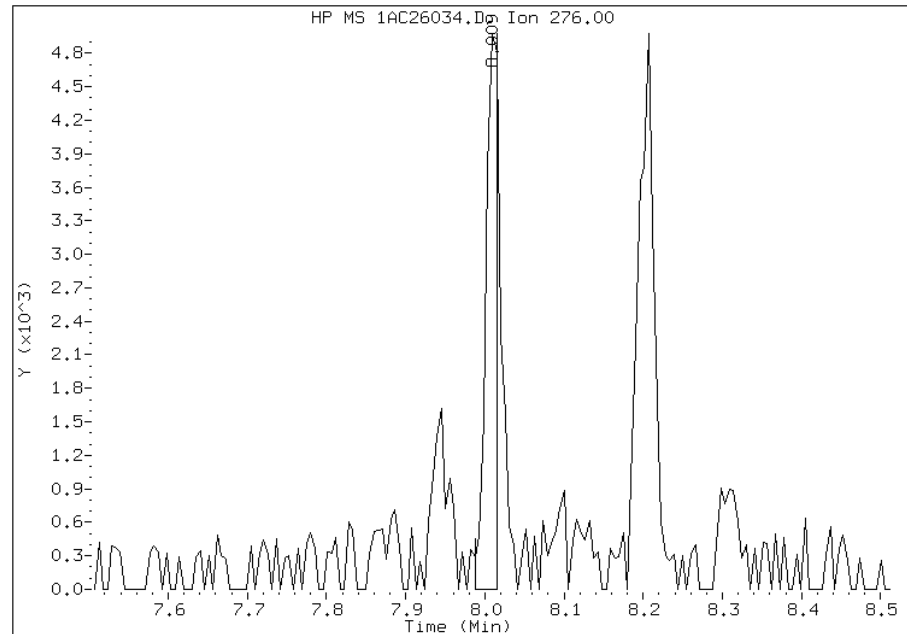
### Processing Integration Results

RT: 7.96  
Response: 783  
Amount: 0  
Conc: 6



### Manual Integration Results

RT: 8.01  
Response: 5079  
Amount: 1  
Conc: 41



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:55  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360AC-GS</u>	Lab Sample ID: <u>680-88527-31</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:29</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.22(g)</u>	Date Analyzed: <u>03/28/2013 16:18</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>19.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	18		10	5.1
56-55-3	Benzo[a]anthracene	81		9.8	4.8
50-32-8	Benzo[a]pyrene	79		13	6.4
205-99-2	Benzo[b]fluoranthene	140		15	7.5
191-24-2	Benzo[g,h,i]perylene	69		25	5.4
207-08-9	Benzo[k]fluoranthene	43		9.8	4.4
218-01-9	Chrysene	110		11	5.5
53-70-3	Dibenz(a,h)anthracene	19	J	25	5.0
206-44-0	Fluoranthene	140		25	4.9
86-73-7	Fluorene	8.5	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	57		25	8.7
90-12-0	1-Methylnaphthalene	32	J	49	5.4
91-57-6	2-Methylnaphthalene	38	J	49	8.7
91-20-3	Naphthalene	33	J	49	5.4
85-01-8	Phenanthrene	91		9.8	4.8
129-00-0	Pyrene	120		25	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	73		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28017.D  
 Lab Smp Id: 680-88527-A-31-A Client Smp ID: CV1360AC-GS  
 Inj Date : 28-MAR-2013 16:18  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88527-a-31-a  
 Misc Info : 680-88527-A-31-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28017.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.220	Weight Extracted
M	19.604	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	827053	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	644453	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1173785	40.0000			
\$ 14 o-Terphenyl	230	6.009	6.010	(1.044)	128663	7.26001	593.3152		
* 18 Chrysene-d12	240	7.703	7.704	(1.000)	1316303	40.0000			
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1312176	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	8778	0.40769	33.3175		
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	6682	0.46524	38.0215		
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	5179	0.39593	32.3567		
9 Fluorene	166	5.151	5.151	(1.071)	2112	0.10341	8.4508(Q)		
11 Phenanthrene	178	5.774	5.774	(1.003)	37746	1.11212	90.8863		
12 Anthracene	178	5.809	5.810	(1.009)	7226	0.21769	17.7905		
13 Carbazole	167	5.915	5.921	(1.028)	4683	0.15871	12.9702		
15 Fluoranthene	202	6.609	6.616	(1.148)	61499	1.65457	135.2177		

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
							(ug/ml)	(ug/Kg)	
=====	=====	=====	=====	=====	=====	=====	=====	=====	
16 Pyrene		202	6.780	6.780 (0.880)		50327	1.42272	116.2701	
17 Benzo(a)anthracene		228	7.692	7.698 (0.998)		37518	0.98755	80.7061	
19 Chrysene		228	7.721	7.721 (1.002)		52919	1.39189	113.7503	
20 Benzo(b)fluoranthene		252	8.539	8.539 (0.962)		57419	1.67441	136.8392	
21 Benzo(k)fluoranthene		252	8.550	8.562 (0.963)		18347	0.52154	42.6224(QM)	
22 Benzo(a)pyrene		252	8.827	8.827 (0.994)		32040	0.96191	78.6107	
24 Indeno(1,2,3-cd)pyrene		276	10.039	10.045 (1.130)		21767	0.69467	56.7713(M)	
25 Dibenzo(a,h)anthracene		278	10.050	10.062 (1.132)		6994	0.22820	18.6489	
26 Benzo(g,h,i)perylene		276	10.386	10.398 (1.170)		27726	0.84587	69.1275	

#### QC Flag Legend

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



Data File: 1CC28017.D

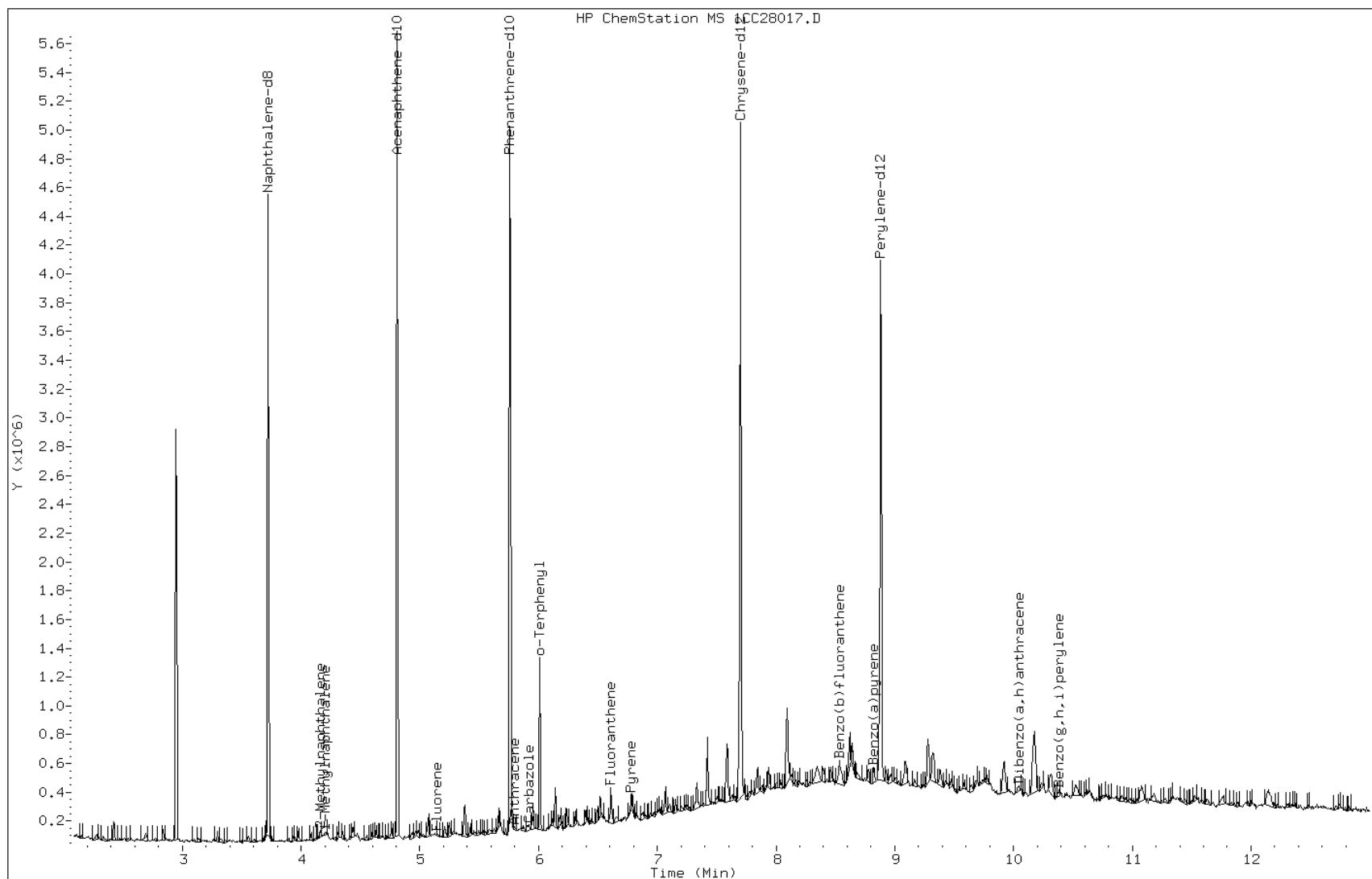
Date: 28-MAR-2013 16:18

Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

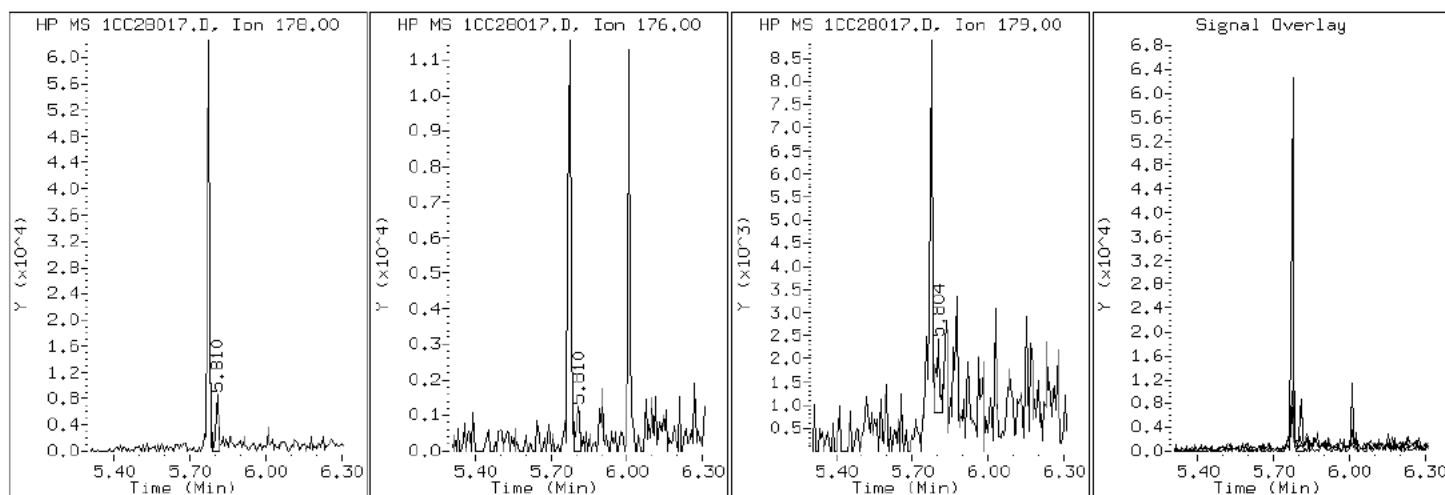
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

12 Anthracene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

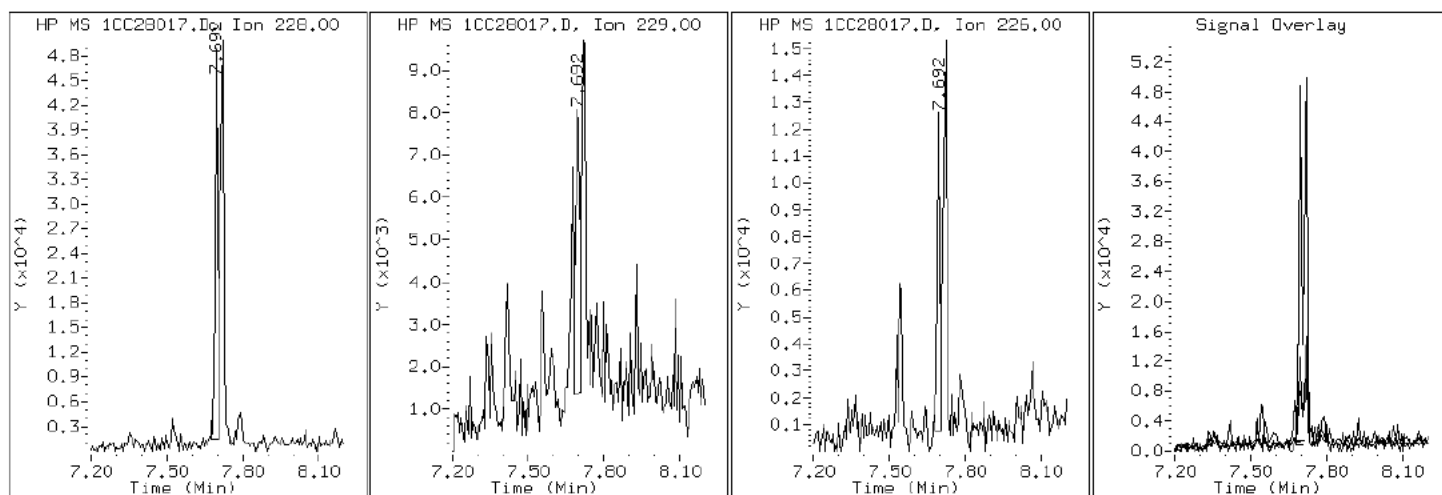
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

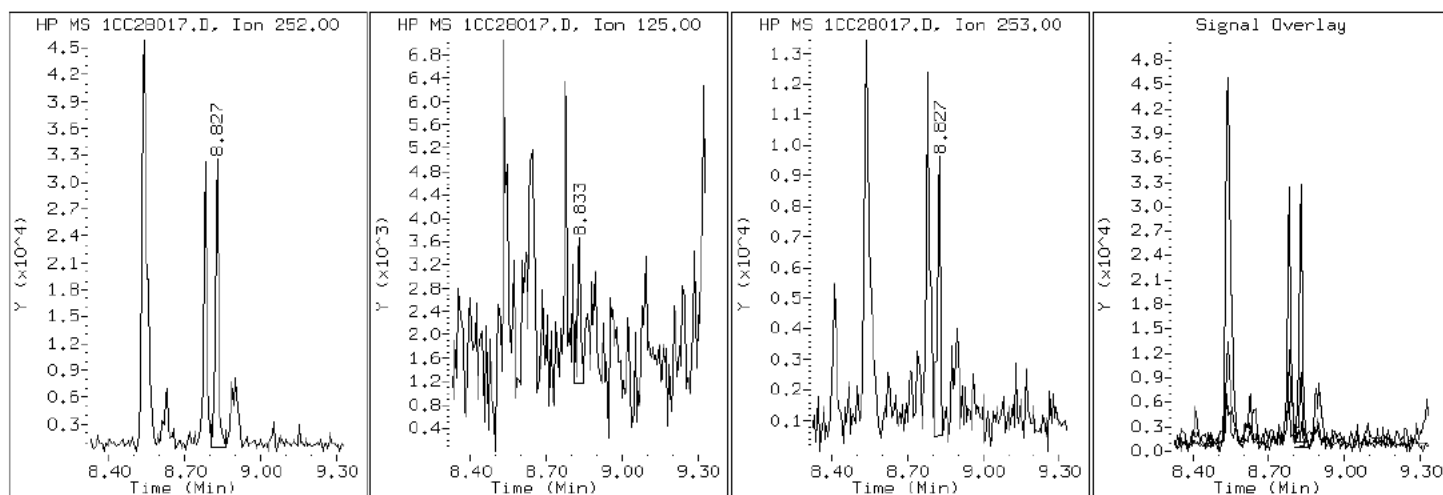
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

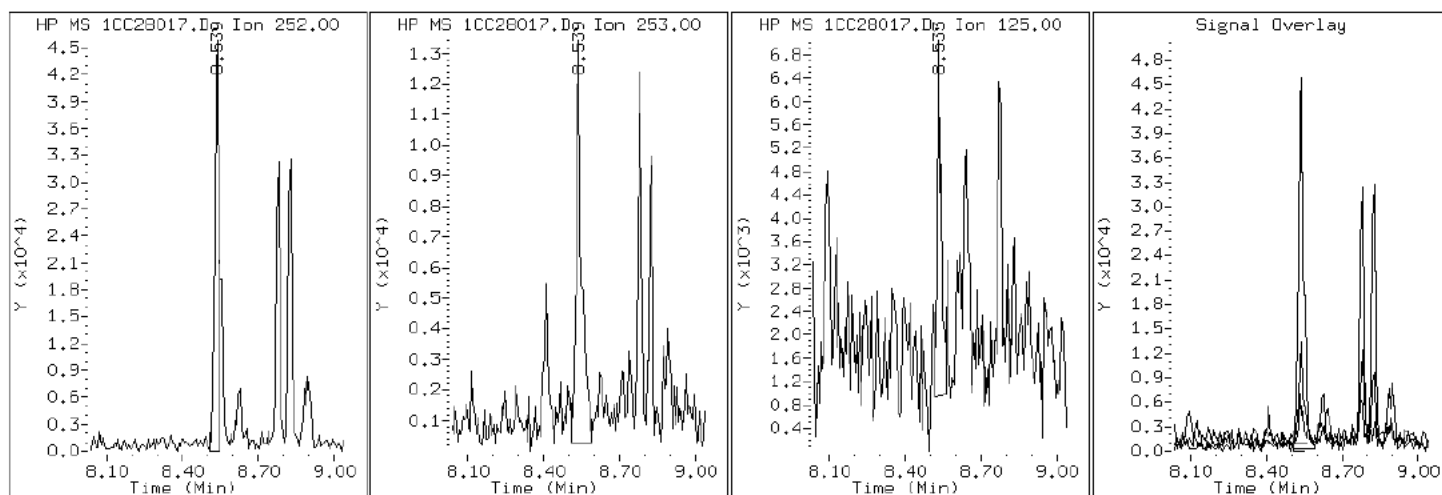
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

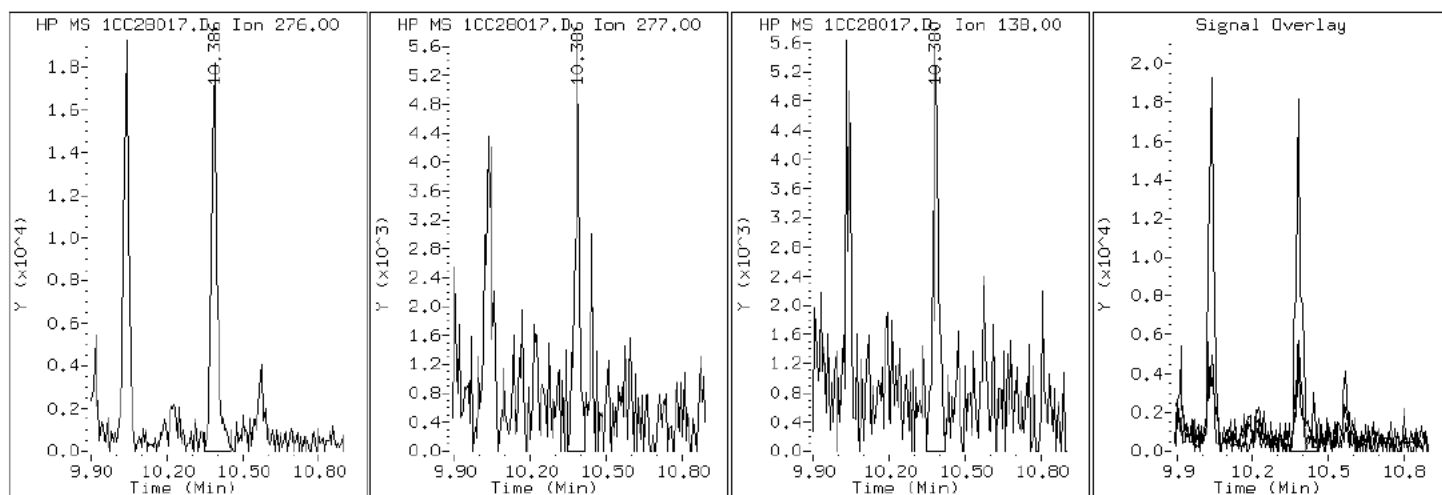
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

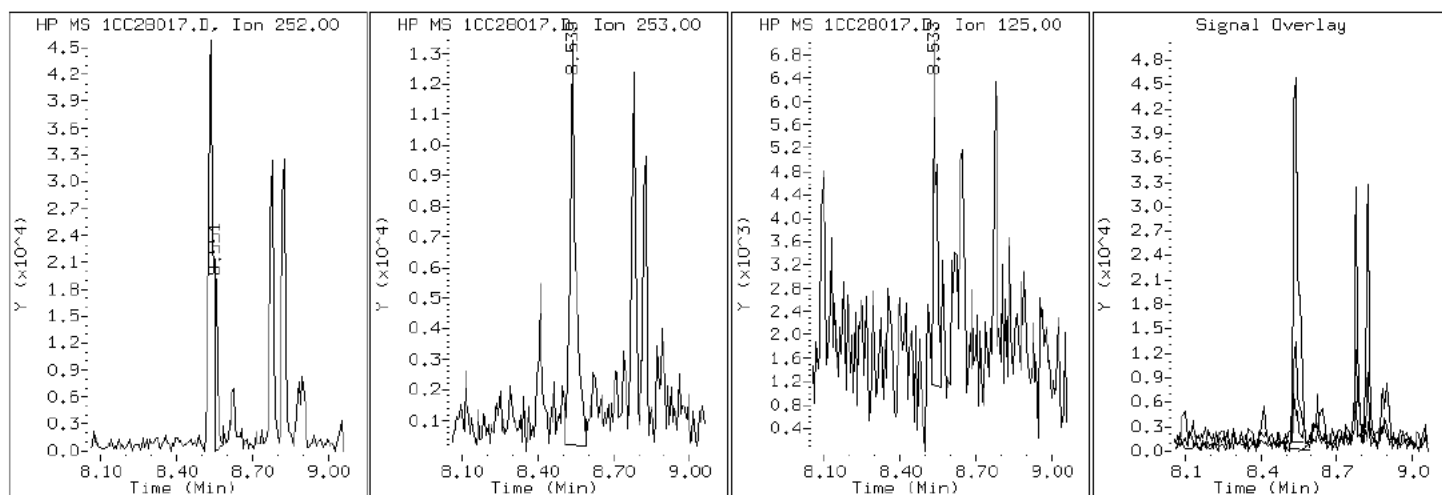
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

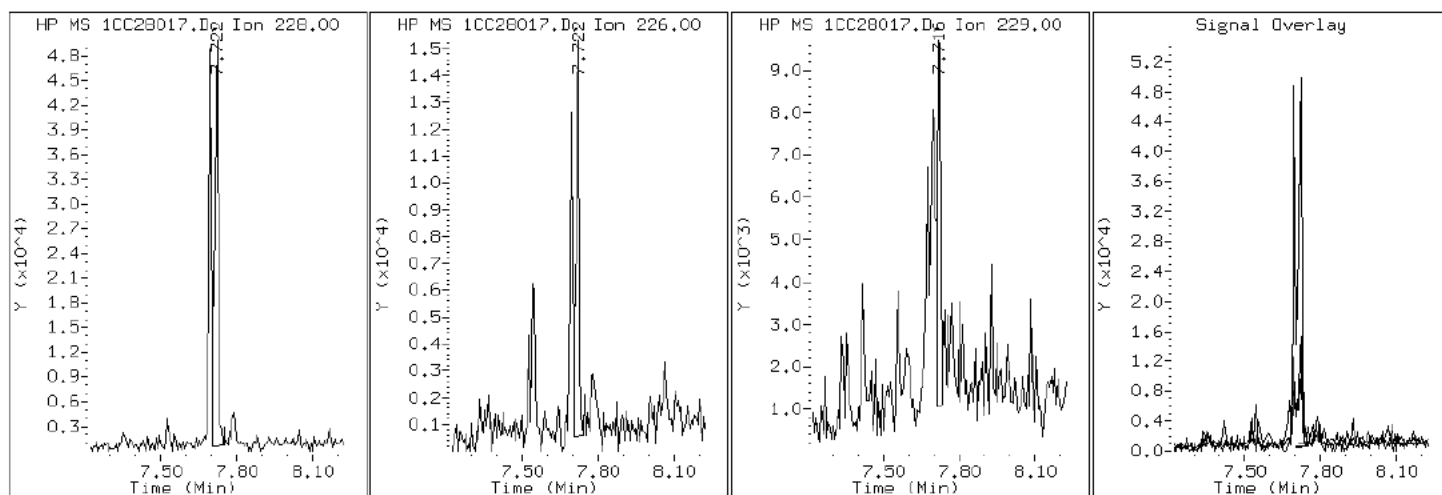
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

19 Chrysene





Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

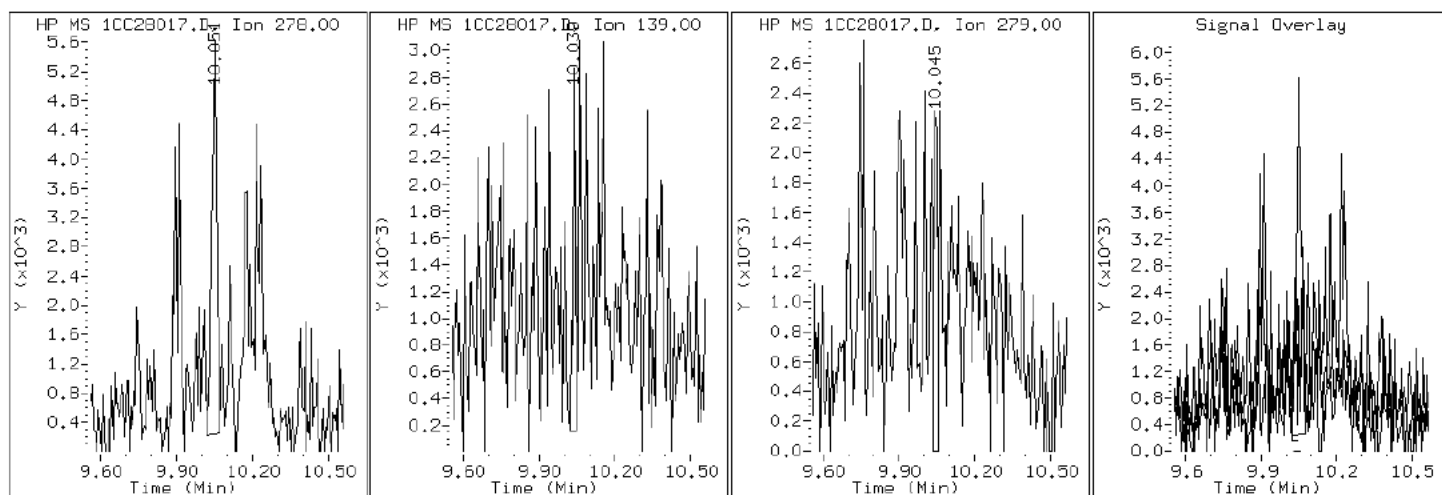
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

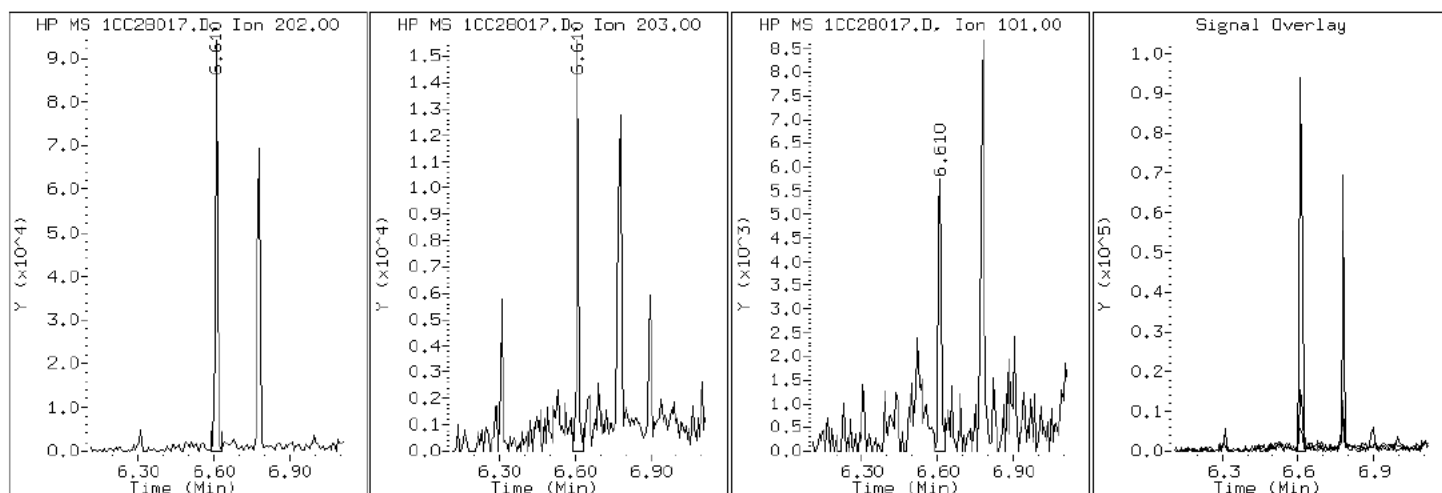
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

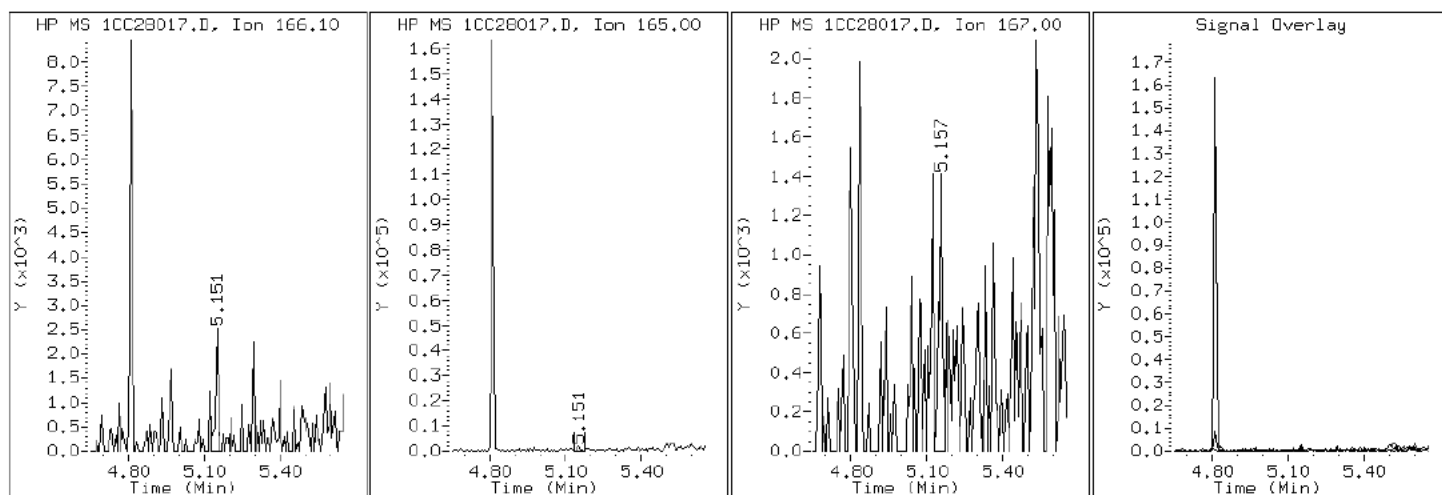
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

9 Fluorene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

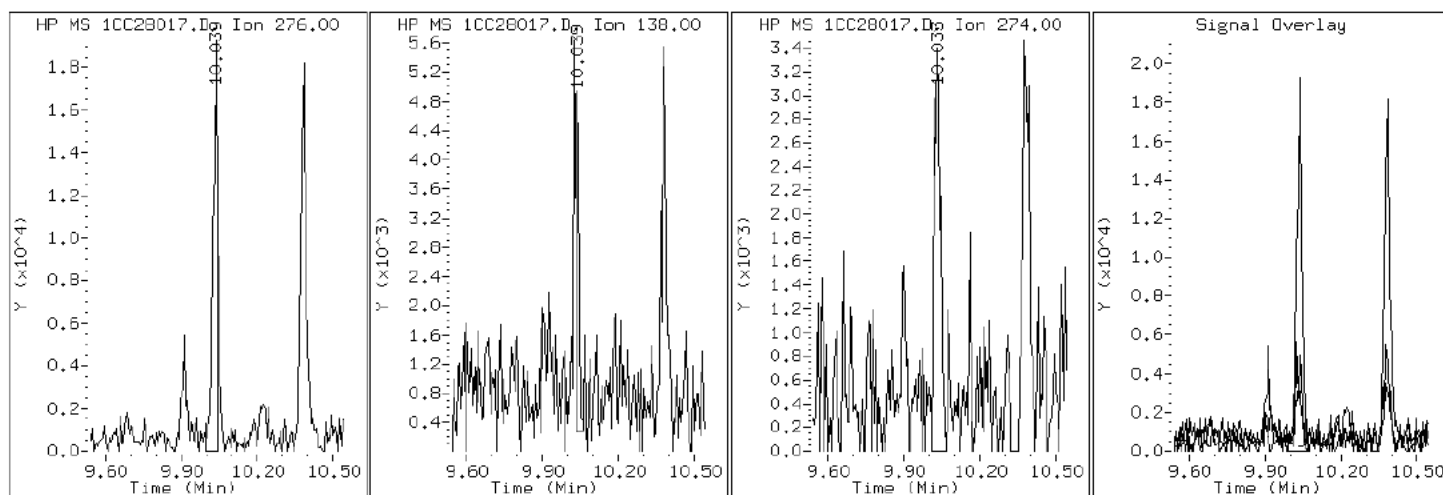
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

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



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

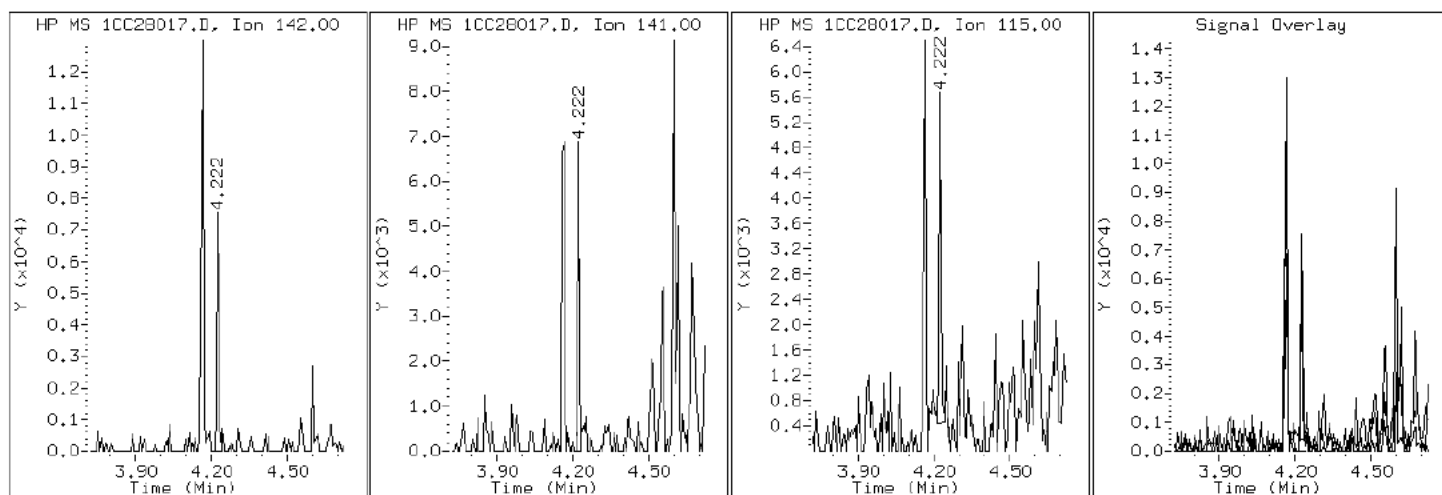
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

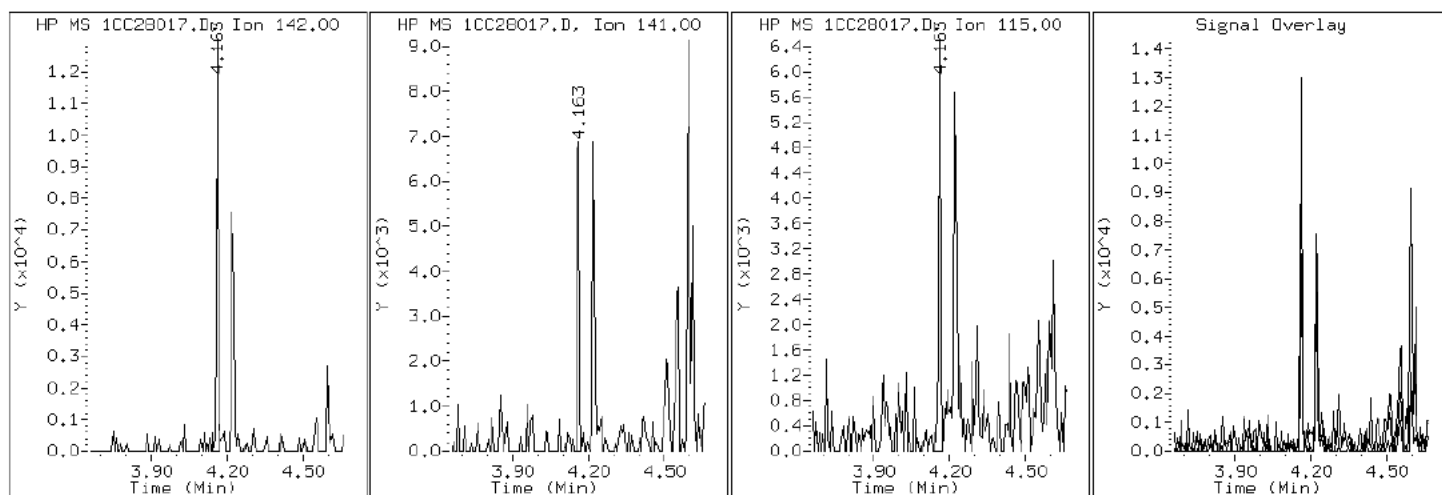
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

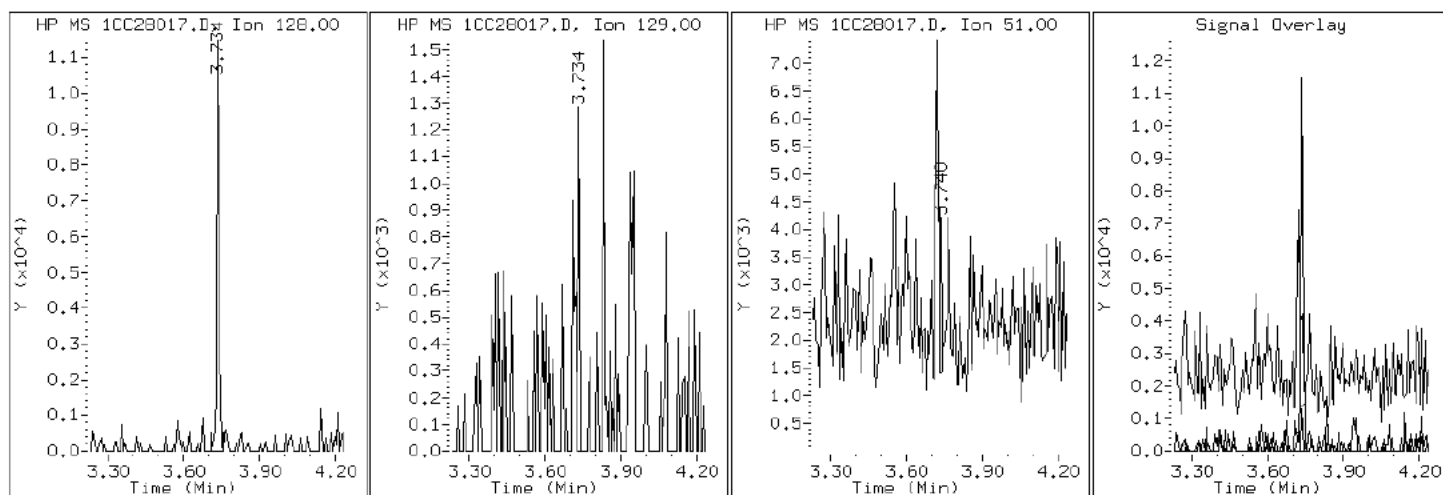
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

## 2 Naphthalene



Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

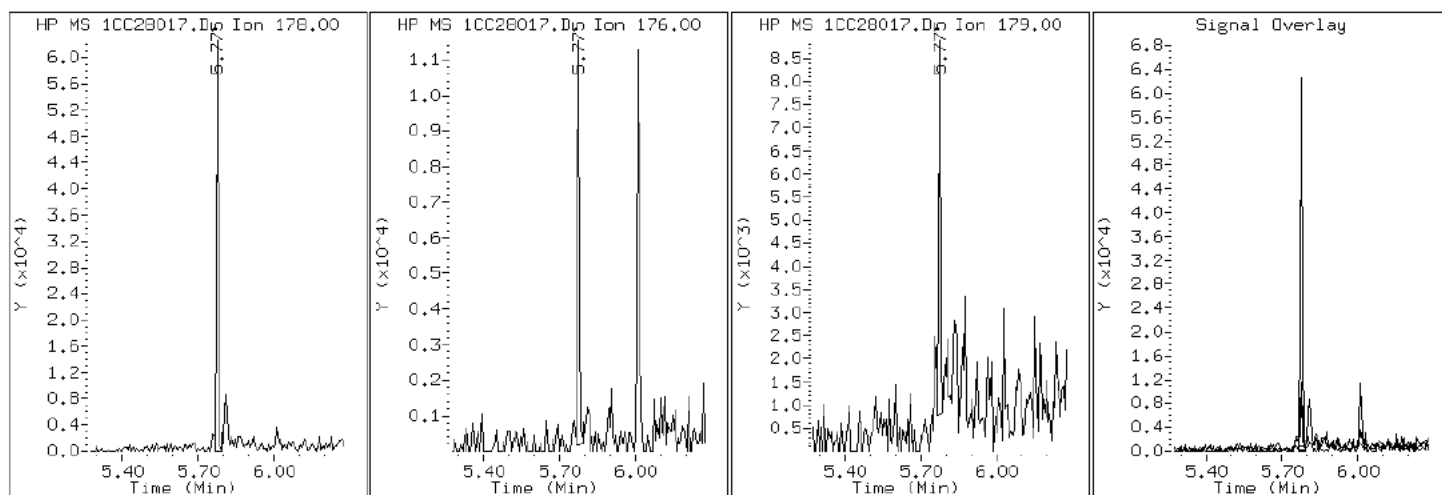
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

11 Phenanthrene





Data File: 1CC28017.D

Date: 28-MAR-2013 16:18

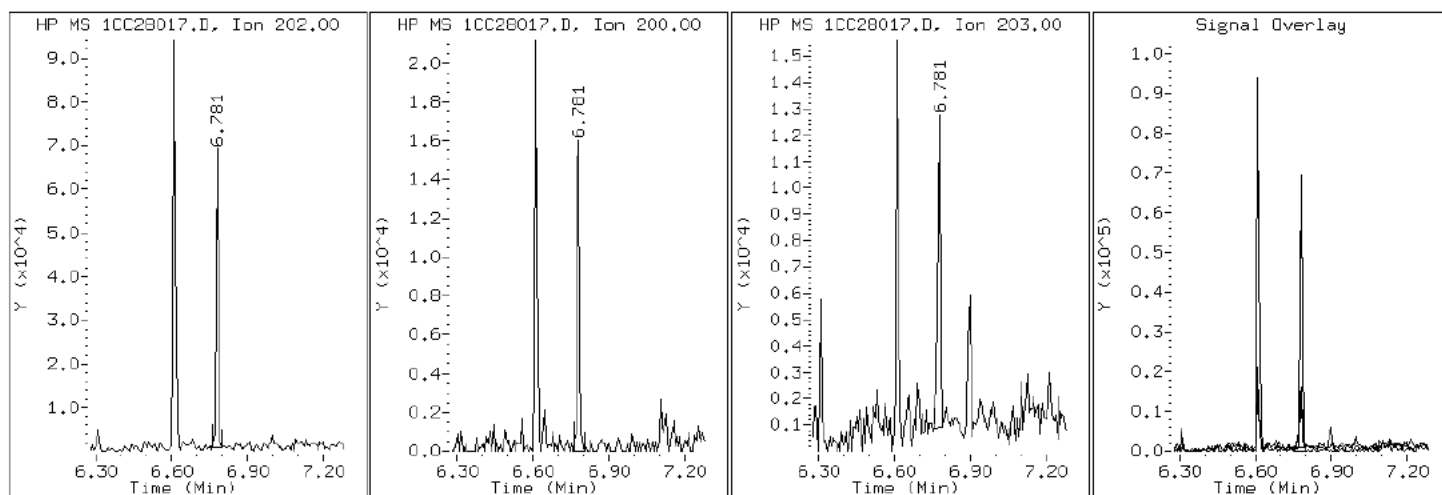
Client ID: CV1360AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-31-a

Operator: SCC

16 Pyrene

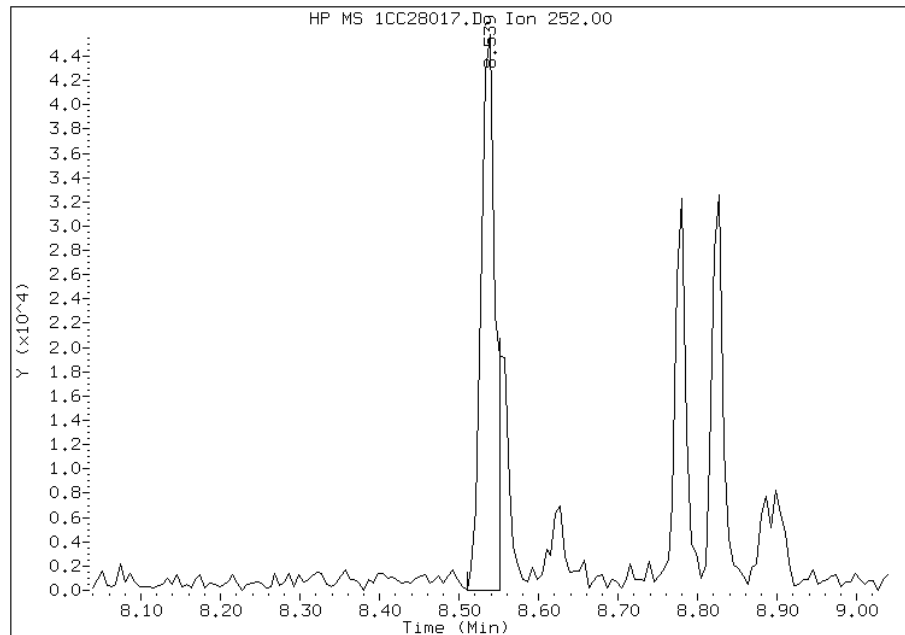


## Manual Integration Report

Data File: 1CC28017.D  
Inj. Date and Time: 28-MAR-2013 16:18  
Instrument ID: BSMC5973.i  
Client ID: CV1360AC-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

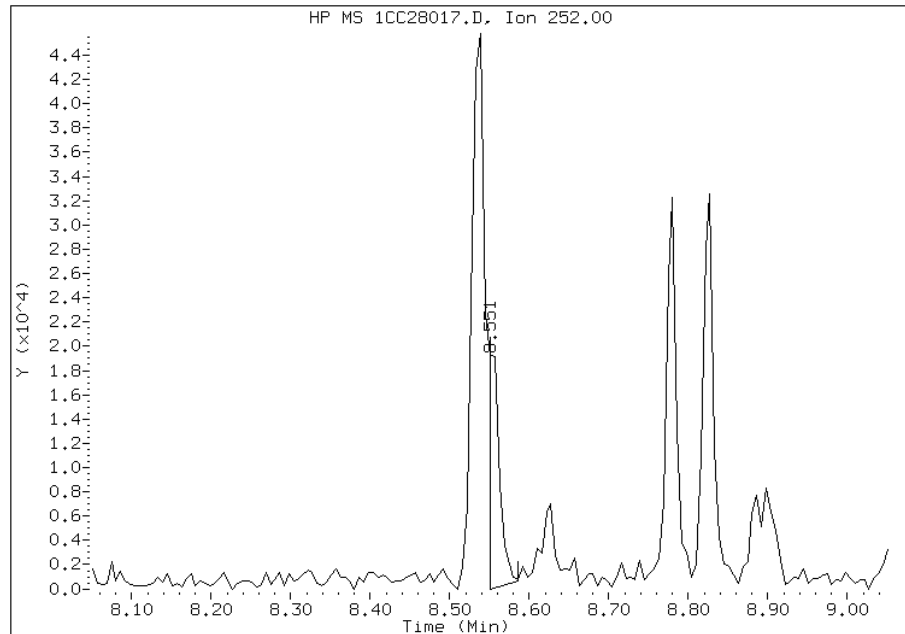
### Processing Integration Results

RT: 8.54  
Response: 57419  
Amount: 2  
Conc: 133



### Manual Integration Results

RT: 8.55  
Response: 18347  
Amount: 1  
Conc: 43



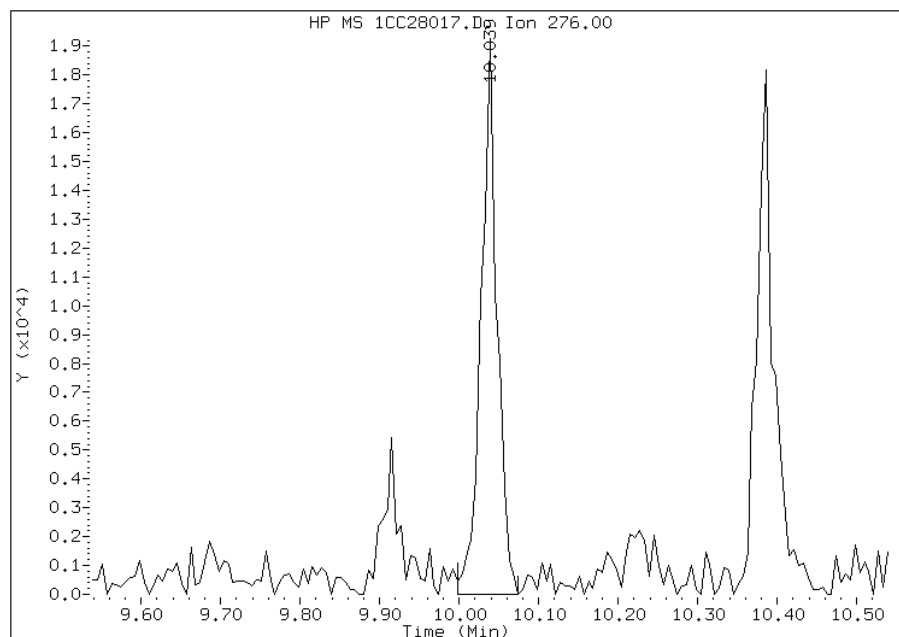
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:12  
Manual Integration Reason: Analyte Misidentified by the Data System

## Manual Integration Report

Data File: 1CC28017.D  
Inj. Date and Time: 28-MAR-2013 16:18  
Instrument ID: BSMC5973.i  
Client ID: CV1360AC-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

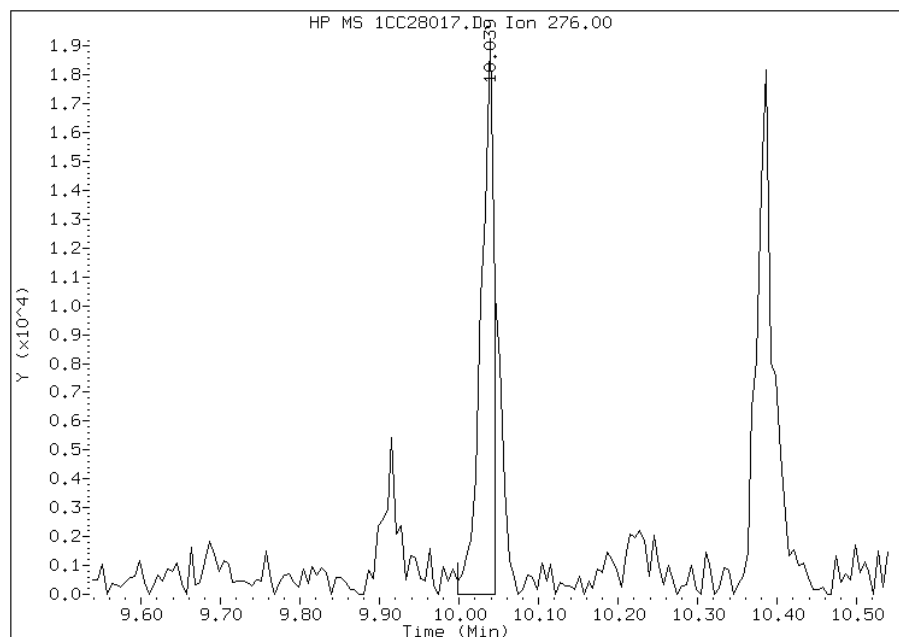
### Processing Integration Results

RT: 10.04  
Response: 26585  
Amount: 1  
Conc: 69



### Manual Integration Results

RT: 10.04  
Response: 21767  
Amount: 1  
Conc: 57



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:13  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360AD-GS</u>	Lab Sample ID: <u>680-88527-32</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:48</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>14.93(g)</u>	Date Analyzed: <u>03/28/2013 16:36</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>84.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	650	U	650	130
208-96-8	Acenaphthylene	260	U	260	32
120-12-7	Anthracene	54	U	54	27
56-55-3	Benzo[a]anthracene	120		52	25
50-32-8	Benzo[a]pyrene	39	J	67	34
205-99-2	Benzo[b]fluoranthene	72	J	79	39
191-24-2	Benzo[g,h,i]perylene	130	U	130	28
207-08-9	Benzo[k]fluoranthene	57		52	23
218-01-9	Chrysene	66		58	29
53-70-3	Dibenz(a,h)anthracene	130	U	130	27
206-44-0	Fluoranthene	120	J	130	26
86-73-7	Fluorene	32	J	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	130	U	130	46
90-12-0	1-Methylnaphthalene	52	J	260	28
91-57-6	2-Methylnaphthalene	58	J	260	46
91-20-3	Naphthalene	97	J	260	28
85-01-8	Phenanthrene	190		52	25
129-00-0	Pyrene	120	J	130	24

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28018.D  
 Lab Smp Id: 680-88527-A-32-A Client Smp ID: CV1360AD-GS  
 Inj Date : 28-MAR-2013 16:36  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88527-a-32-a  
 Misc Info : 680-88527-A-32-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28018.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.930	Weight Extracted
M	84.466	% 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					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ug/ml) (ug/Kg)
*****	****	****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	816507	40.0000	
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	645744	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.763	(1.000)	1186338	40.0000	
\$ 14 o-Terphenyl	230	6.009	6.010	(1.043)	71707	4.00336	1726.1662
* 18 Chrysene-d12	240	7.698	7.704	(1.000)	1336728	40.0000	
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1316002	40.0000	
2 Naphthalene	128	3.733	3.733	(1.003)	4793	0.22548	97.2227(Q)
3 2-Methylnaphthalene	142	4.162	4.163	(1.119)	1917	0.13520	58.2945(Q)
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	1566	0.12127	52.2869(Q)
9 Fluorene	166	5.151	5.151	(1.071)	1531	0.07481	32.2570
11 Phenanthrene	178	5.774	5.774	(1.002)	15270	0.44514	191.9358
13 Carbazole	167	5.915	5.921	(1.027)	2776	0.09308	40.1358(Q)
15 Fluoranthene	202	6.609	6.616	(1.147)	10631	0.28299	122.0194
16 Pyrene	202	6.780	6.780	(0.881)	9977	0.27774	119.7537

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.703	7.698	(1.001)	10321	0.26752	115.3481
19 Chrysene	228	7.721	7.721	(1.003)	5887	0.15248	65.7441
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	5708	0.16597	71.5621
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.962)	4632	0.13129	56.6091(Q)
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	3021	0.09043	38.9928

#### QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1CC28018.D

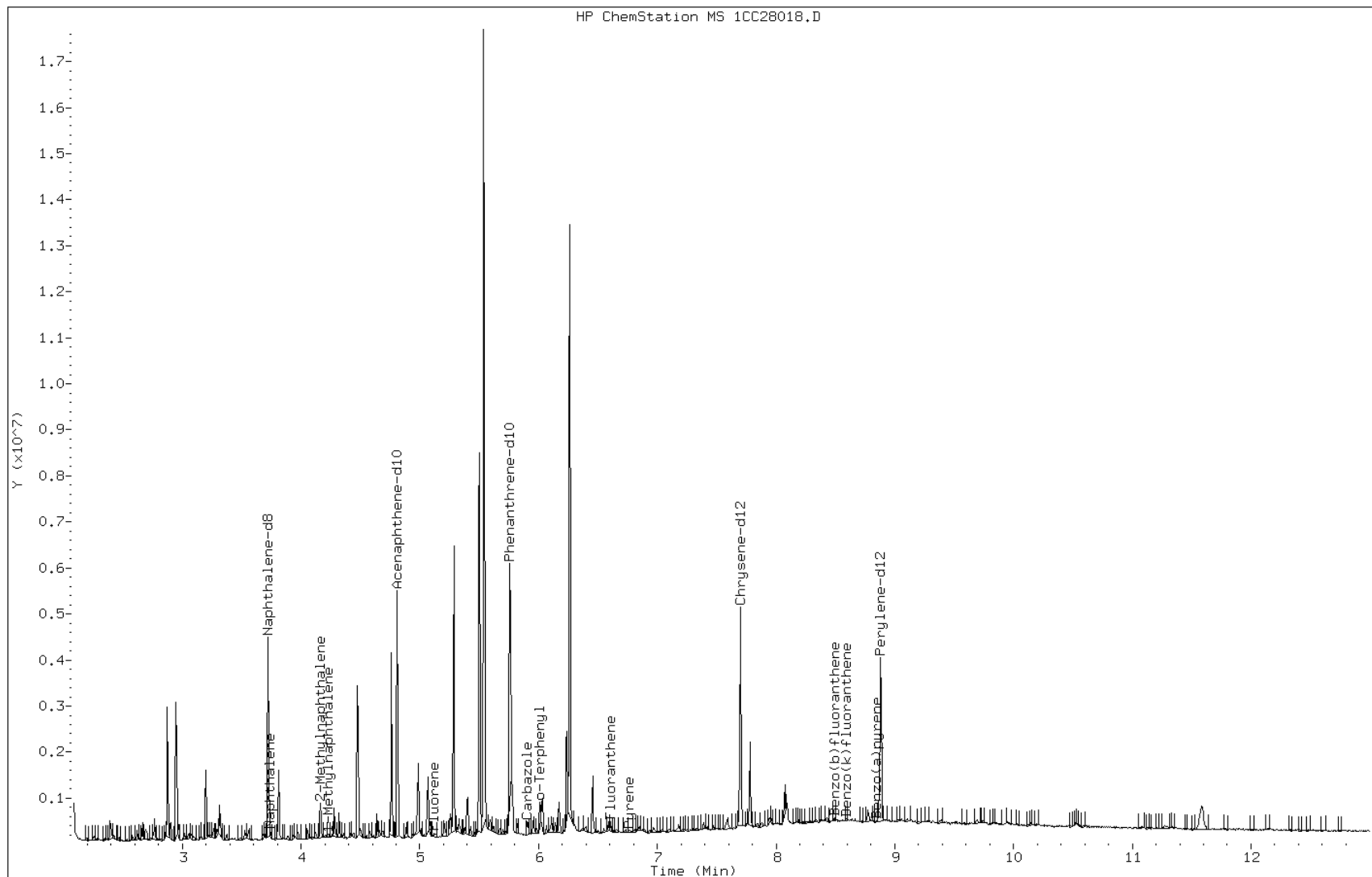
Date: 28-MAR-2013 16:36

Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

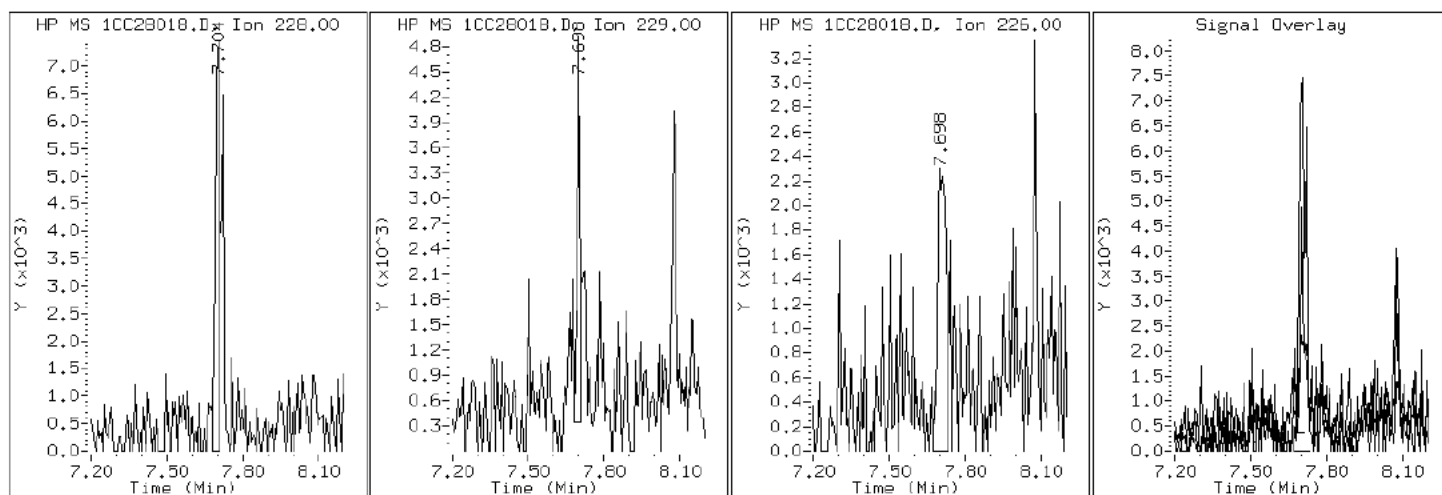
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

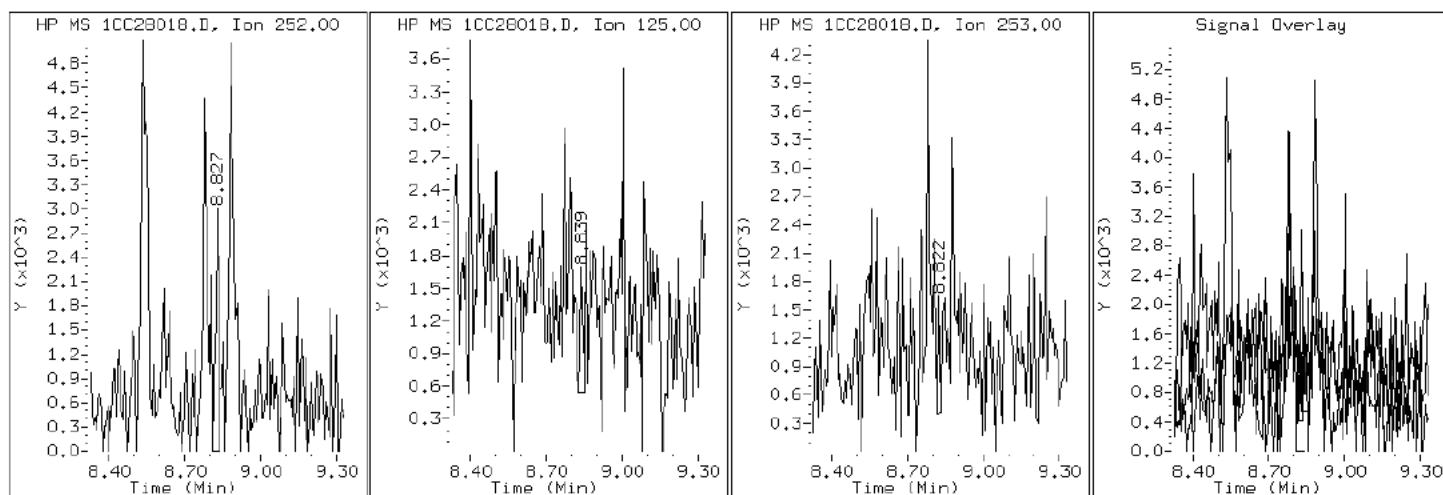
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

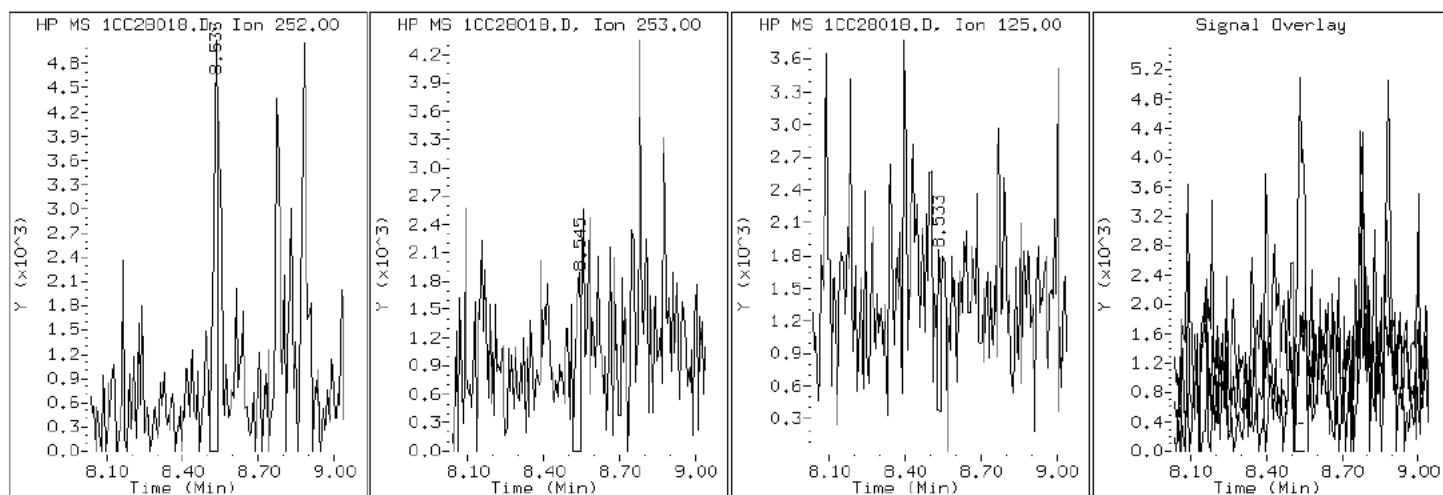
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

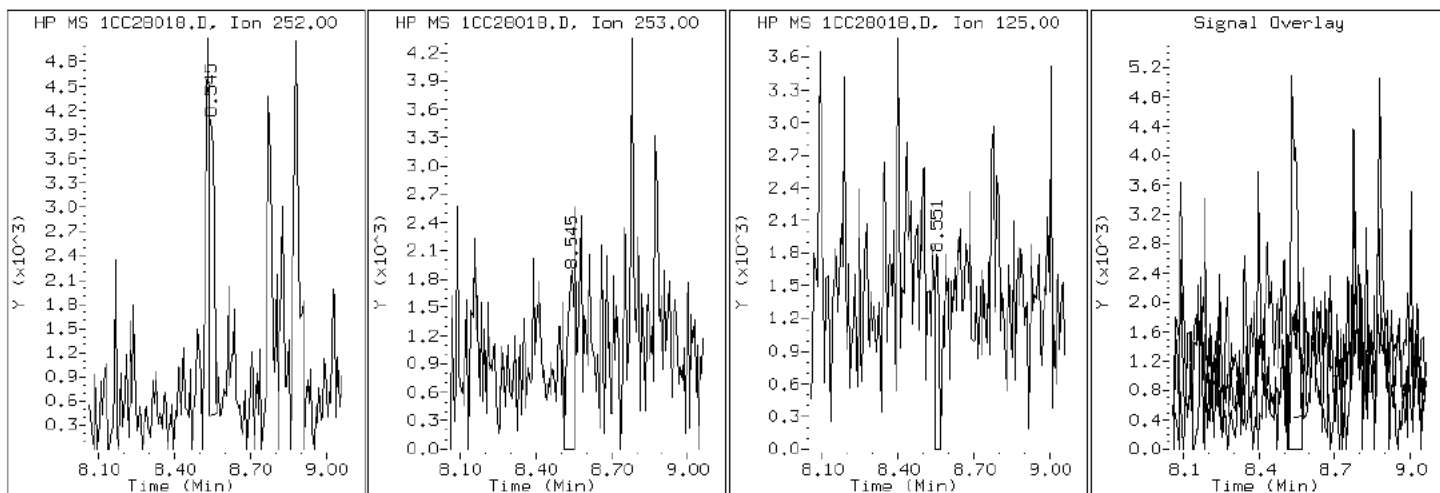
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

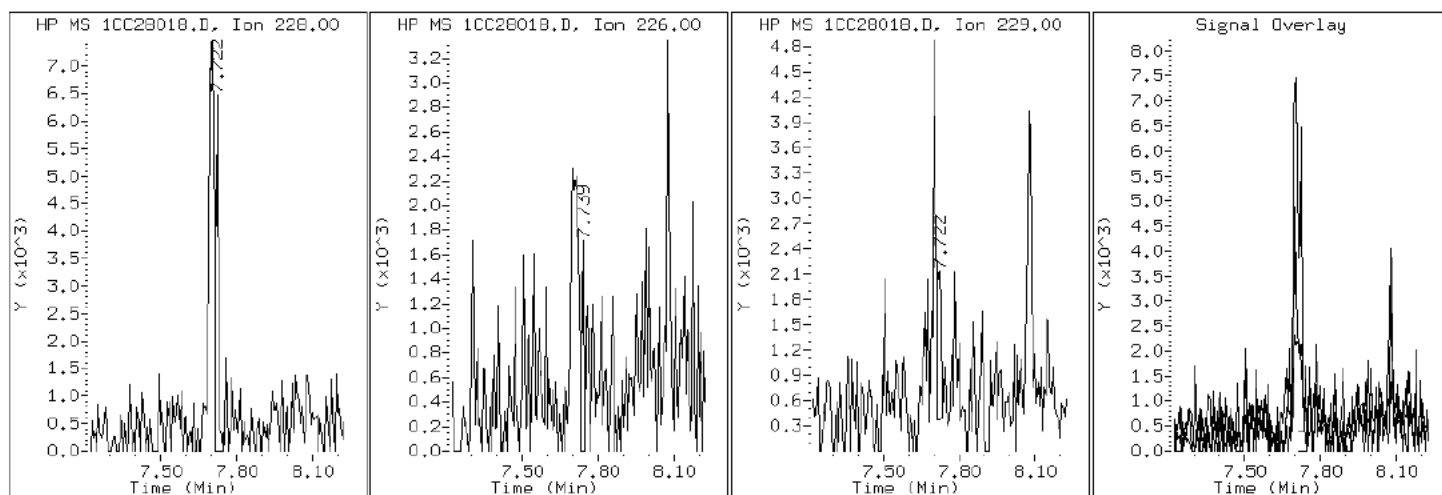
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

19 Chrysene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

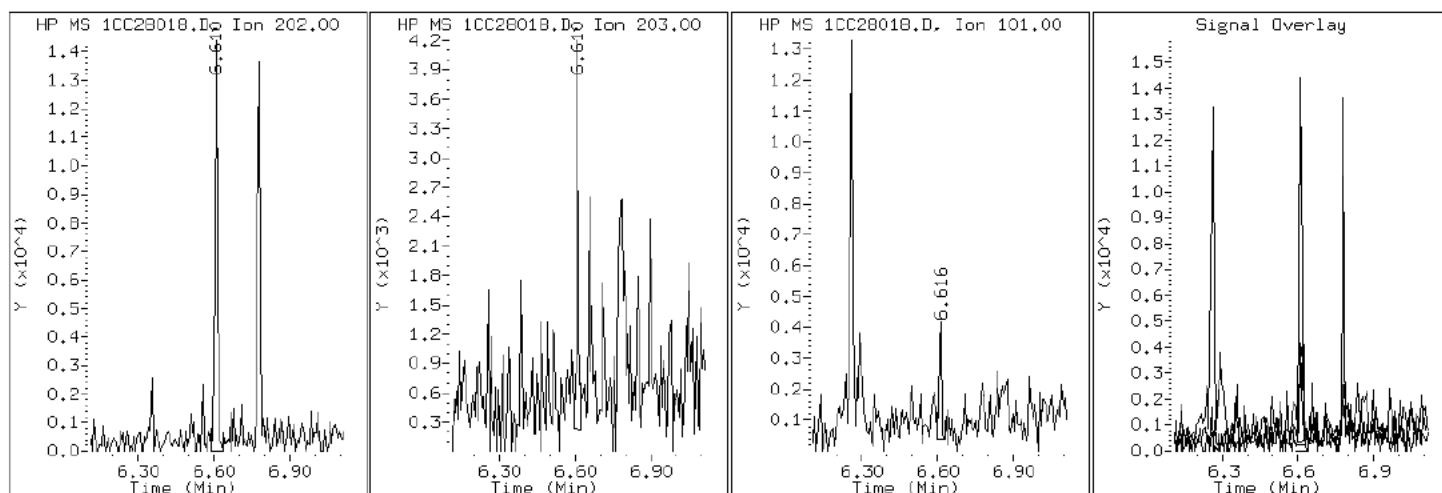
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

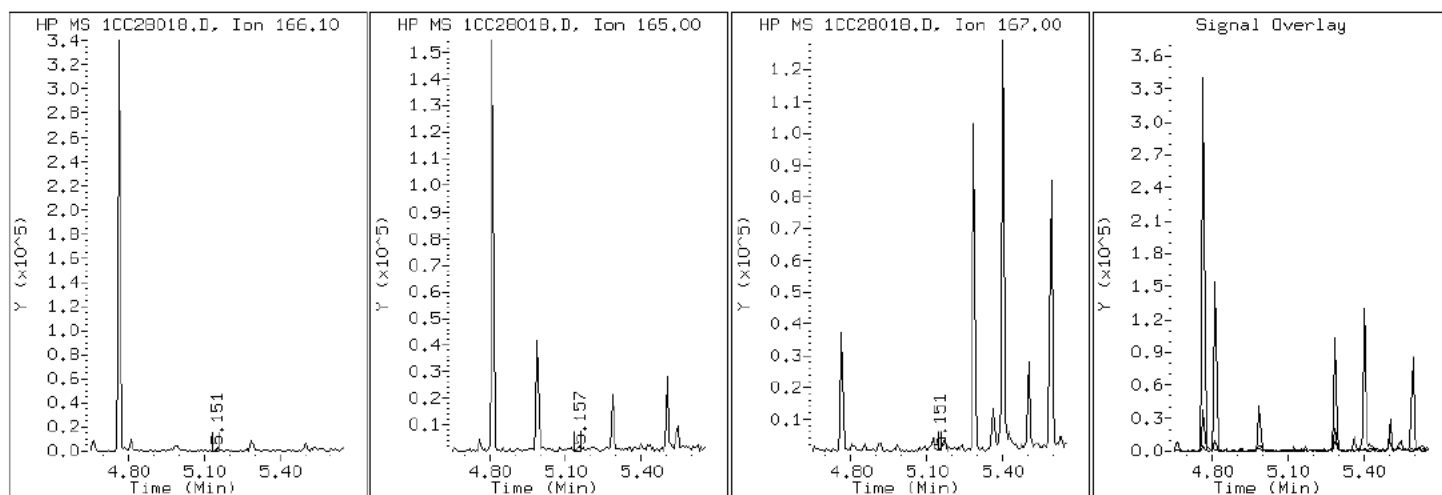
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

9 Fluorene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

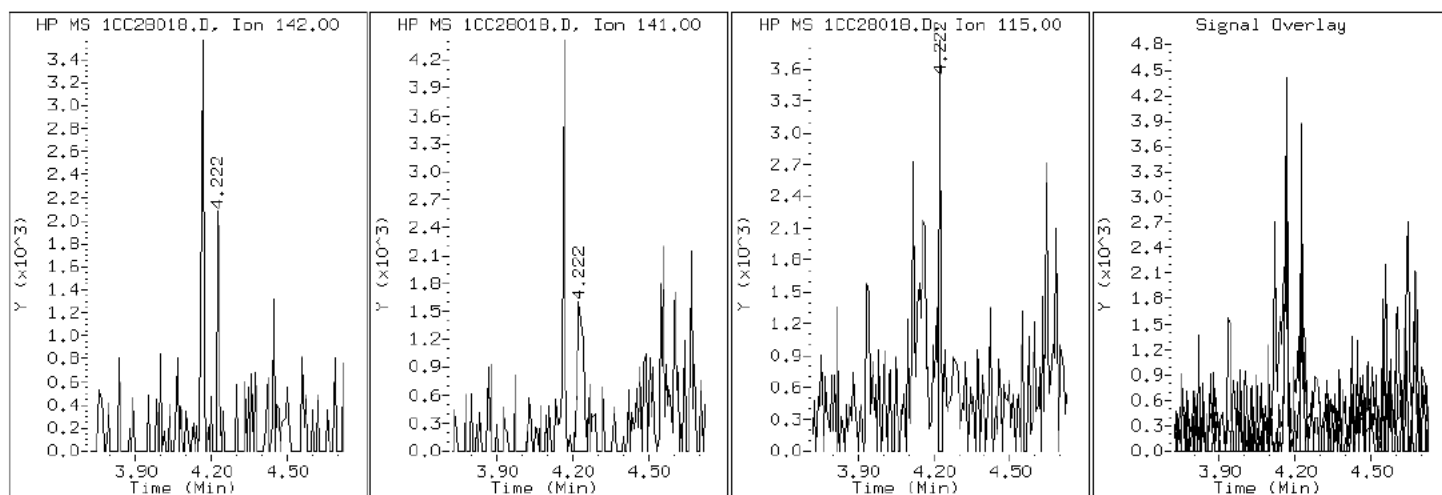
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

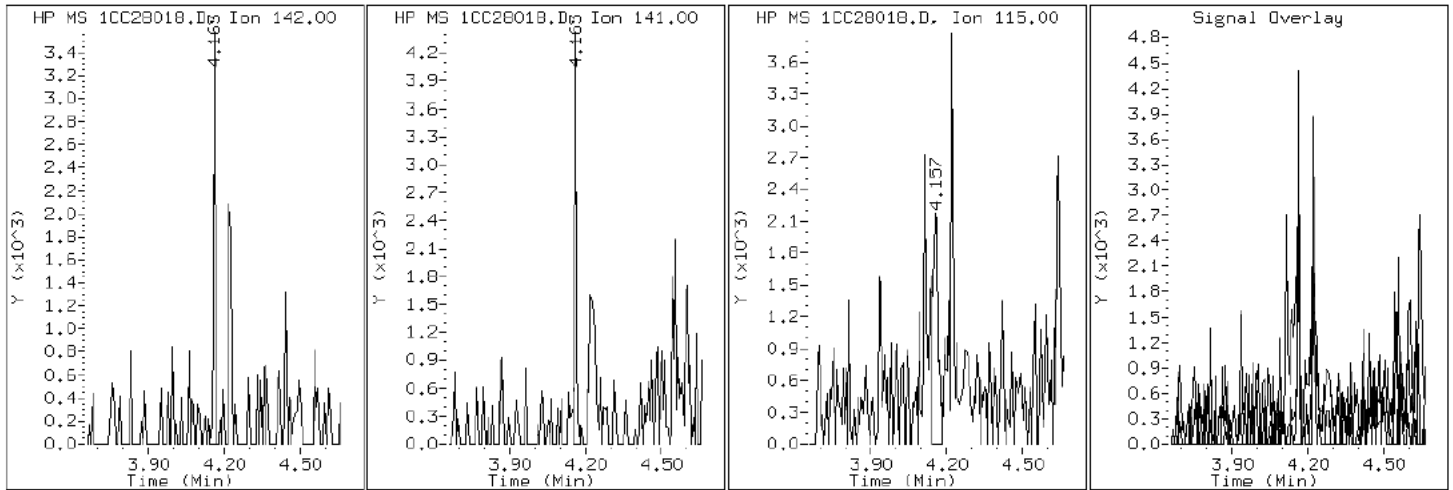
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

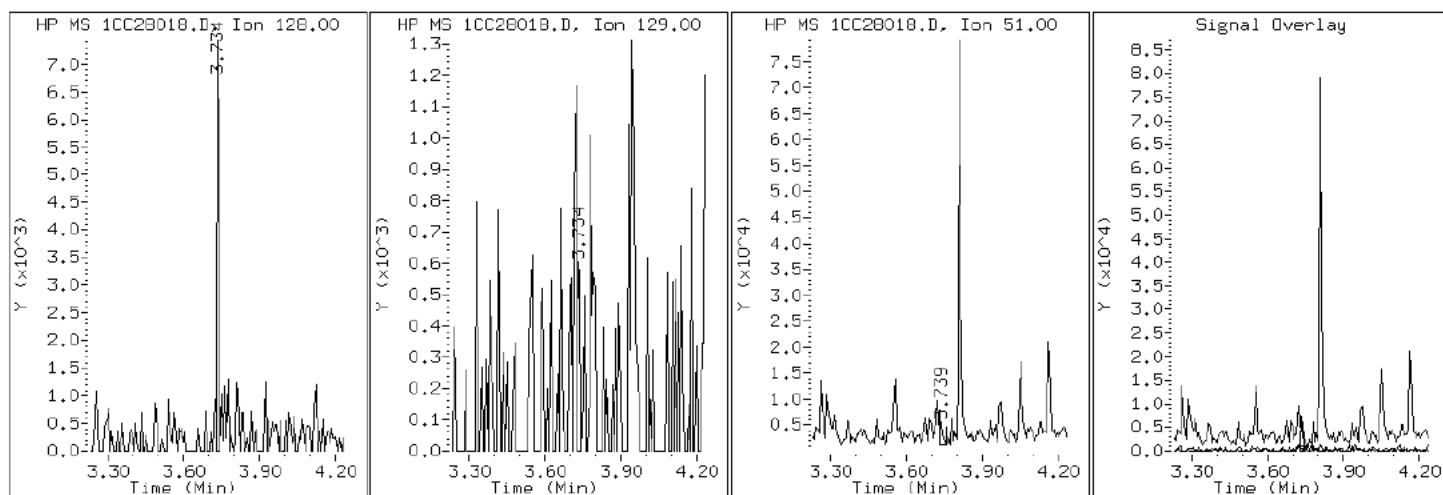
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

## 2 Naphthalene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

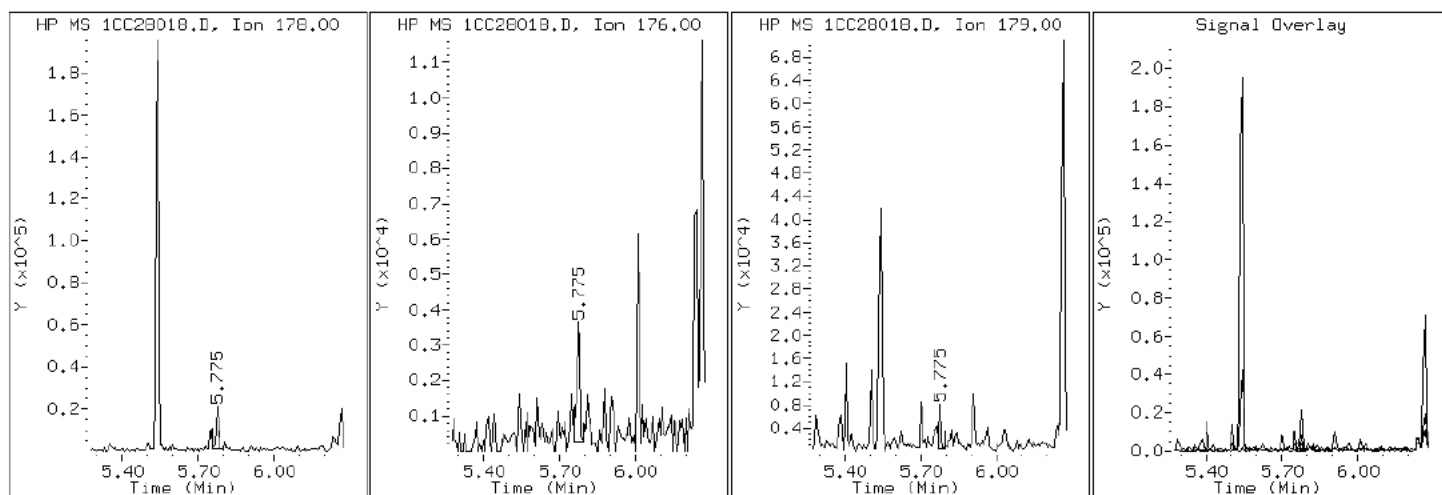
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28018.D

Date: 28-MAR-2013 16:36

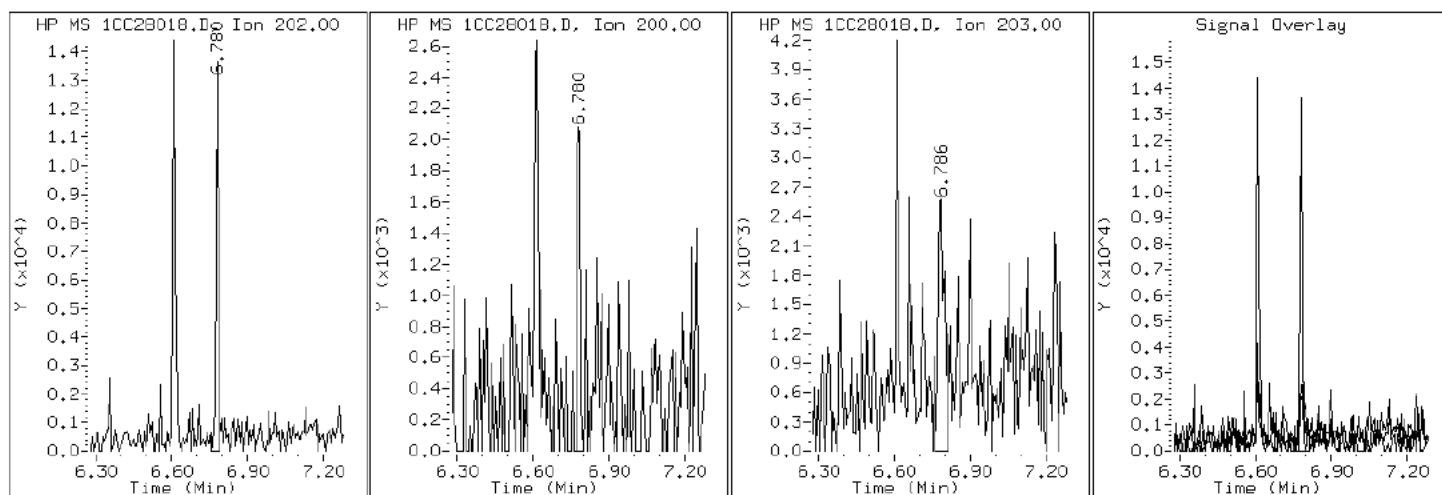
Client ID: CV1360AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-32-a

Operator: SCC

16 Pyrene



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360AE-GS</u>	Lab Sample ID: <u>680-88527-33</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 14:55</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.30(g)</u>	Date Analyzed: <u>03/28/2013 16:54</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>45.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	36
208-96-8	Acenaphthylene	12	J	72	9.0
120-12-7	Anthracene	17		15	7.5
56-55-3	Benzo[a]anthracene	110		14	7.0
50-32-8	Benzo[a]pyrene	100		19	9.3
205-99-2	Benzo[b]fluoranthene	200		22	11
191-24-2	Benzo[g,h,i]perylene	75		36	7.9
207-08-9	Benzo[k]fluoranthene	61		14	6.5
218-01-9	Chrysene	120		16	8.1
53-70-3	Dibenz(a,h)anthracene	30	J	36	7.3
206-44-0	Fluoranthene	180		36	7.2
86-73-7	Fluorene	8.8	J	36	7.3
193-39-5	Indeno[1,2,3-cd]pyrene	58		36	13
90-12-0	1-Methylnaphthalene	17	J	72	7.9
91-57-6	2-Methylnaphthalene	34	J	72	13
91-20-3	Naphthalene	47	J	72	7.9
85-01-8	Phenanthrene	100		14	7.0
129-00-0	Pyrene	170		36	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	62		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28019.D  
Lab Smp Id: 680-88527-A-33-A Client Smp ID: CV1360AE-GS  
Inj Date : 28-MAR-2013 16:54  
Operator : SCC Inst ID: BSMC5973.i  
Smp Info : 680-88527-a-33-a  
Misc Info : 680-88527-A-33-A  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28019.D  
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
Als bottle: 19  
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	45.283	% 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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.722	3.722	(1.000)	836846	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	657403	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1157706	40.0000			
\$ 14 o-Terphenyl	230	6.010	6.010	(1.044)	108240	6.19244	739.6870		
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1262875	40.0000			
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1210363	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	8544	0.39217	46.8451(Q)		
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	4089	0.28137	33.6098		
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	1926	0.14552	17.3820		
5 Acenaphthylene	152	4.722	4.722	(0.982)	2688	0.10142	12.1142		
9 Fluorene	166	5.151	5.151	(1.071)	1538	0.07382	8.8178(Q)		
11 Phenanthrene	178	5.774	5.774	(1.003)	28083	0.83891	100.2073		
12 Anthracene	178	5.810	5.810	(1.009)	4746	0.14496	17.3160(Q)		
13 Carbazole	167	5.916	5.921	(1.028)	5077	0.17445	20.8381(Q)		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.610	6.616	(1.148)	55665	1.51841	181.3745
16 Pyrene	202	6.780	6.780	(0.880)	47931	1.41231	168.7008
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	34032	0.93369	111.5290
19 Chrysene	228	7.721	7.721	(1.002)	36292	0.99494	118.8462
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	52842	1.67056	199.5486(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	16505	0.50865	60.7580(QM)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	26379	0.85857	102.5562
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	14063	0.48656	58.1196(M)
25 Dibenzo(a,h)anthracene	278	10.051	10.062	(1.131)	7204	0.25482	30.4380(MH)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	19083	0.63116	75.3919(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: 1CC28019.D

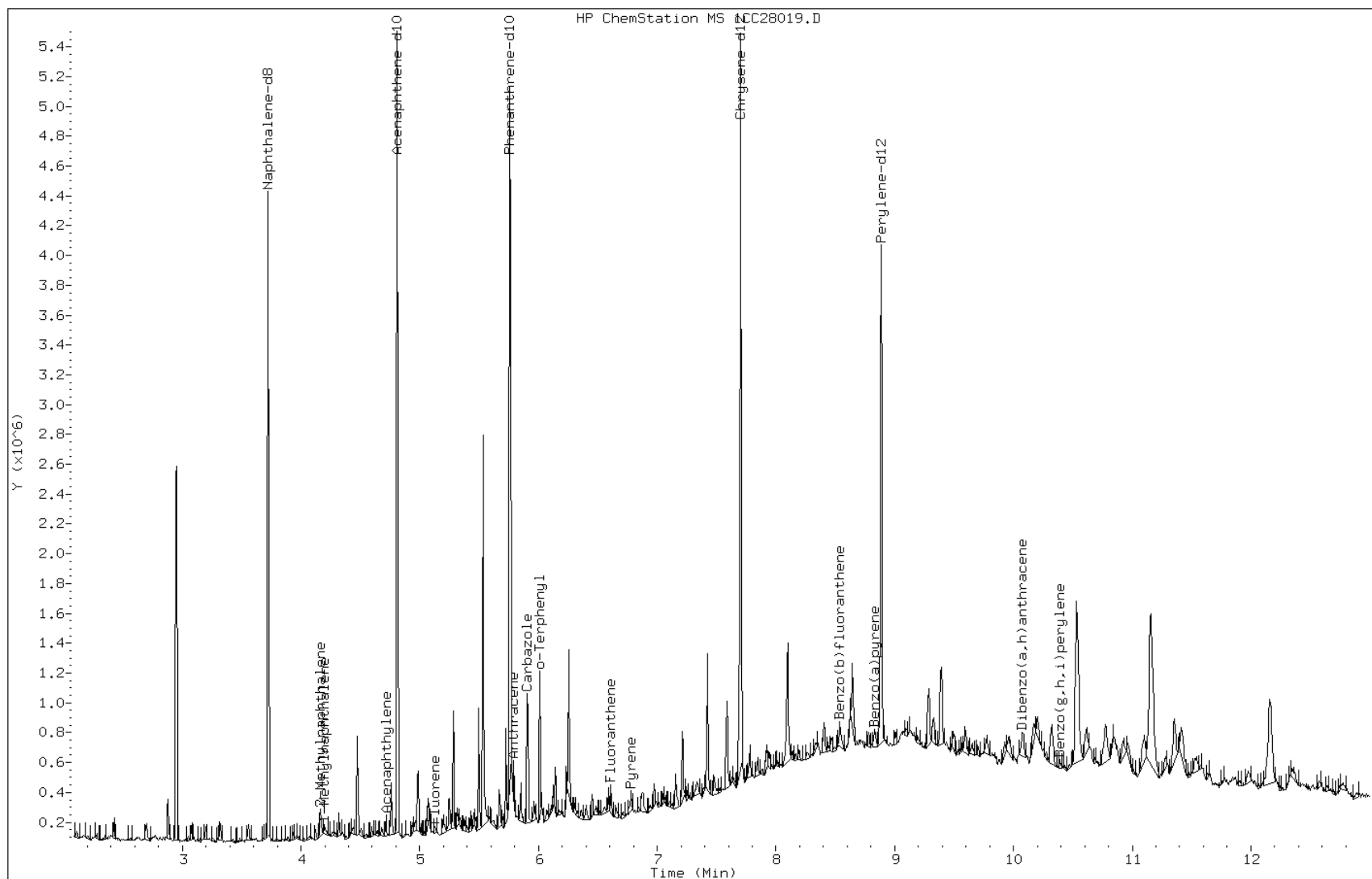
Date: 28-MAR-2013 16:54

Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

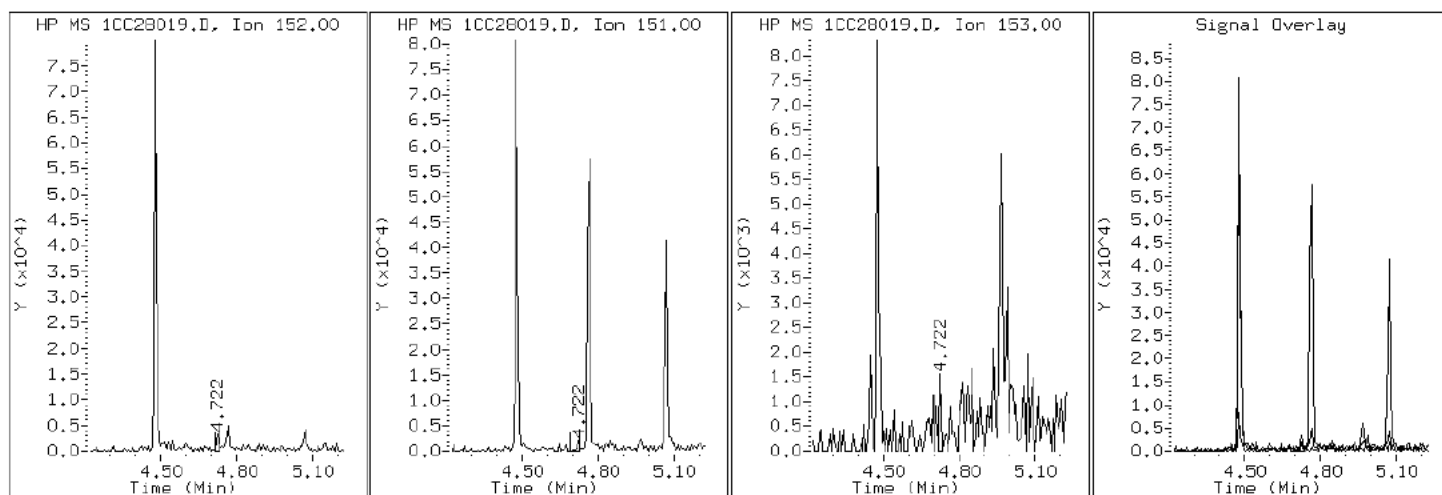
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

5 Acenaphthylene





Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

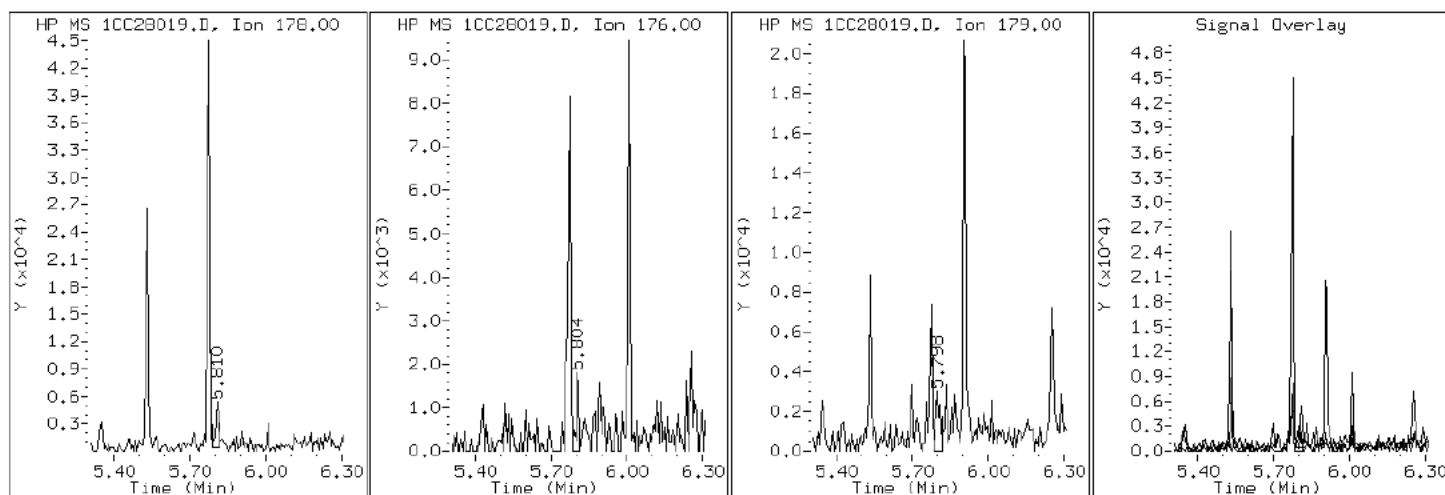
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

12 Anthracene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

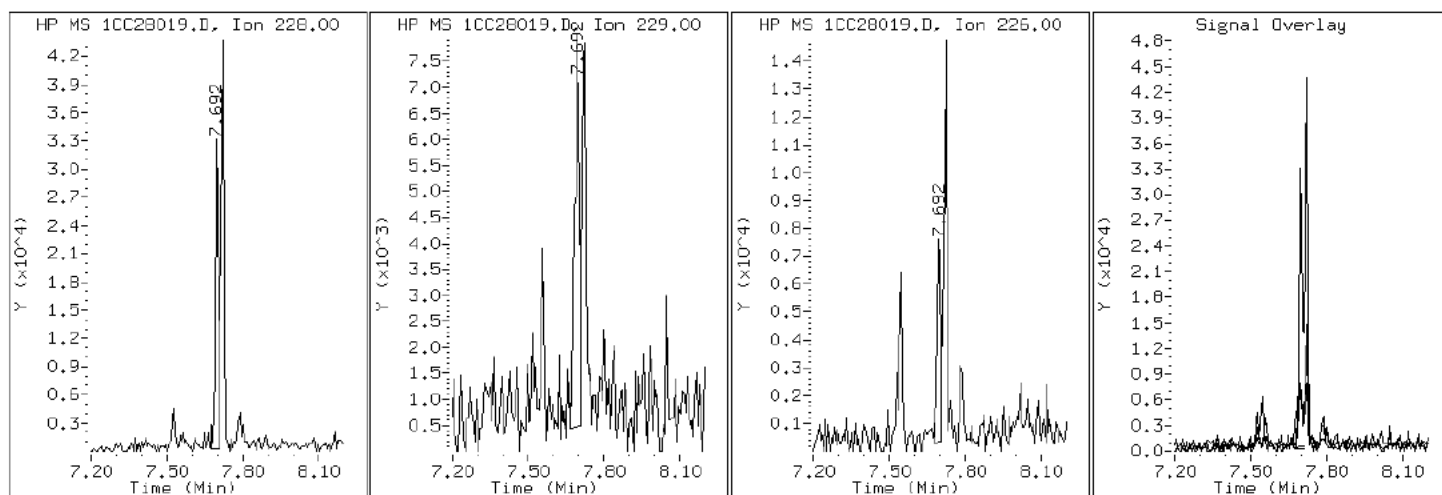
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

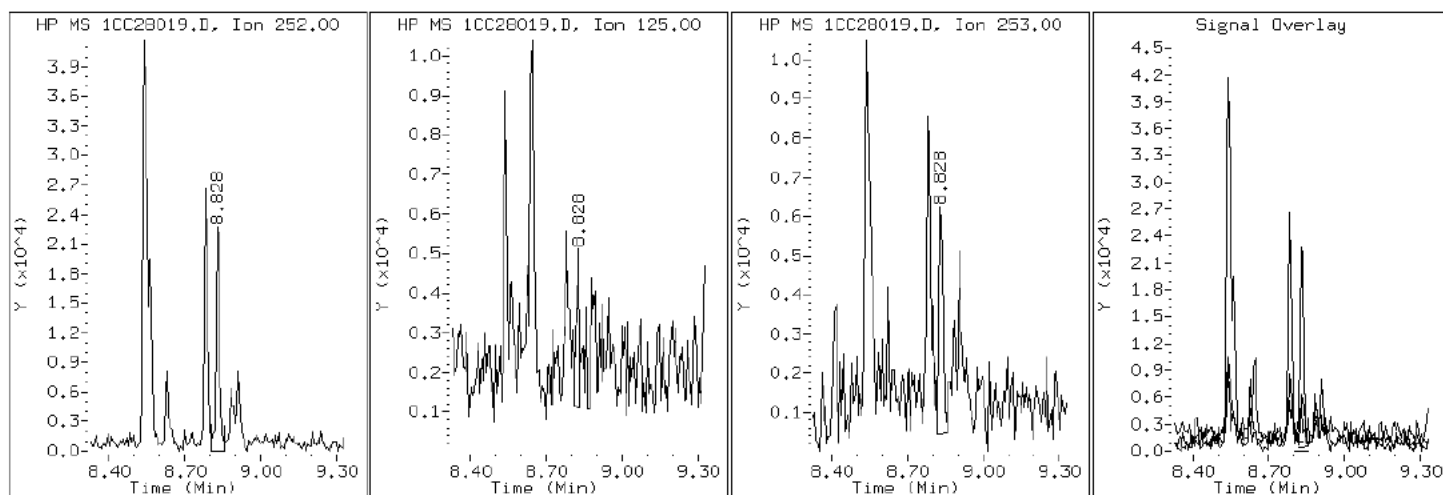
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

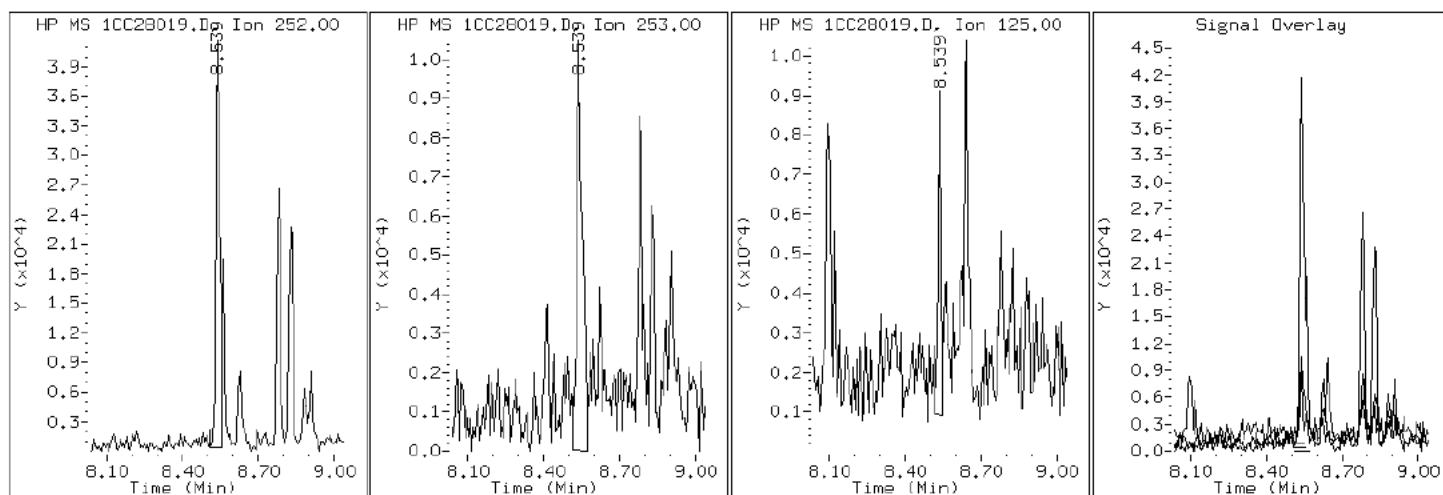
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

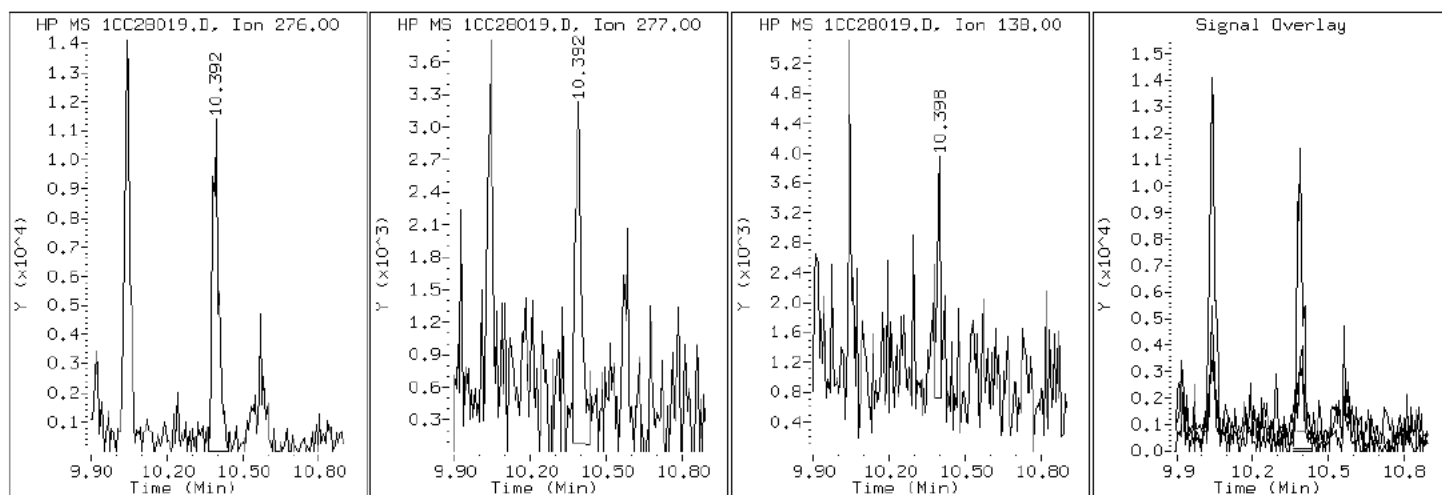
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

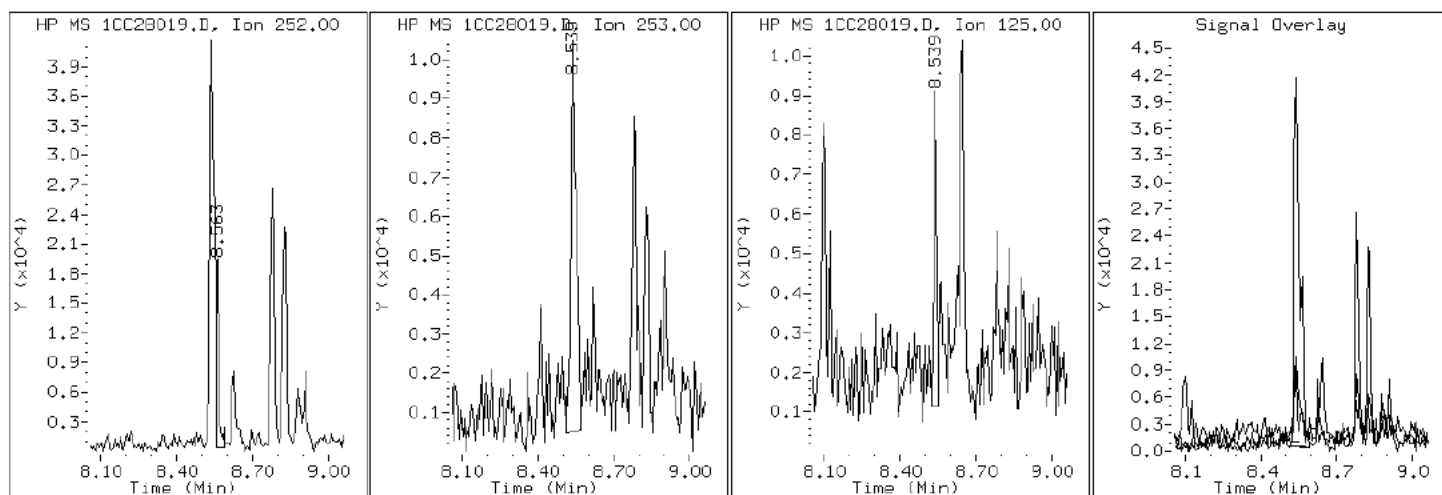
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

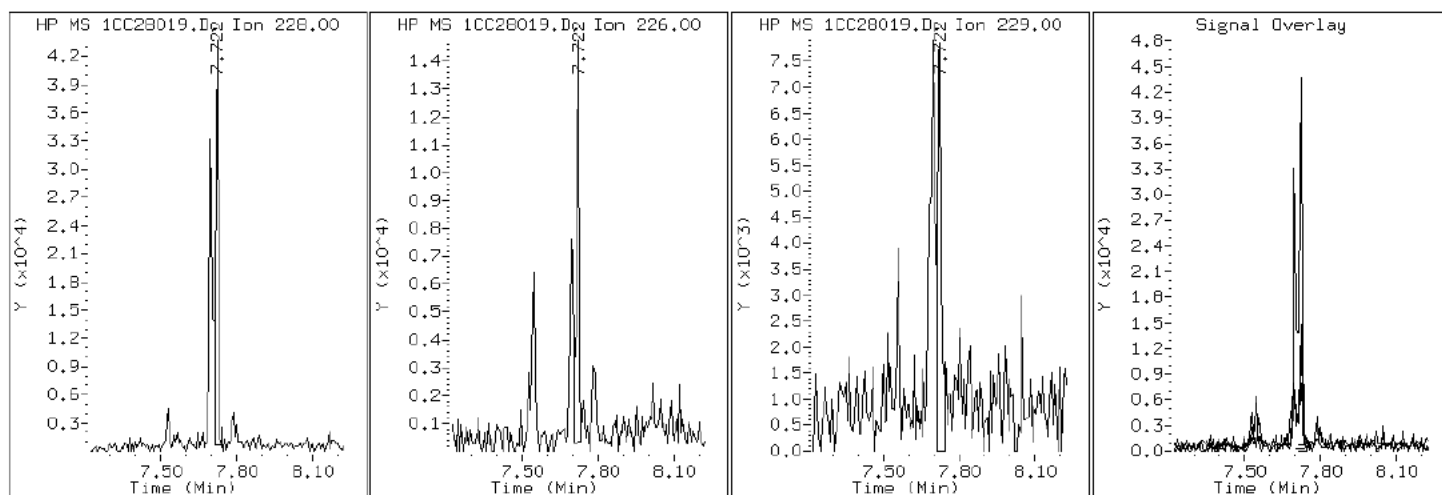
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

19 Chrysene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

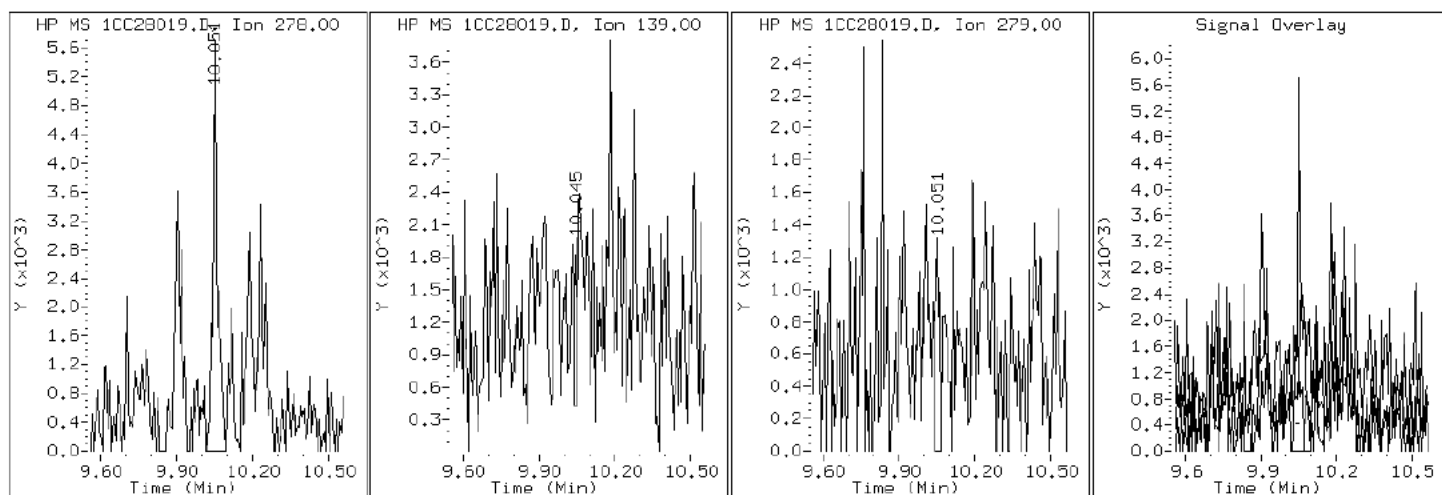
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

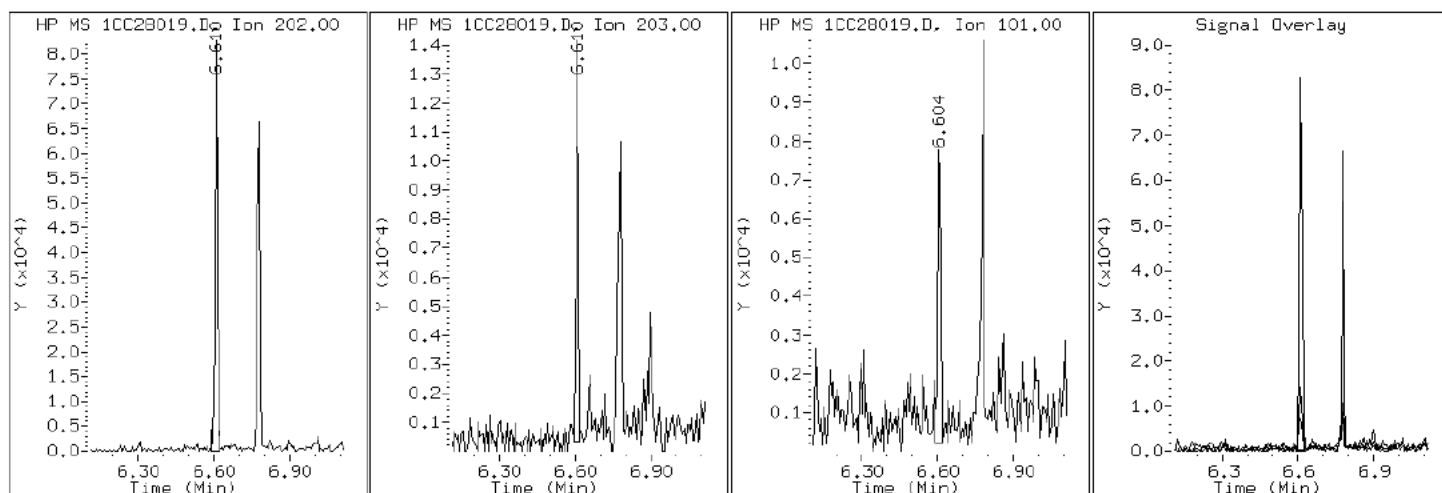
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

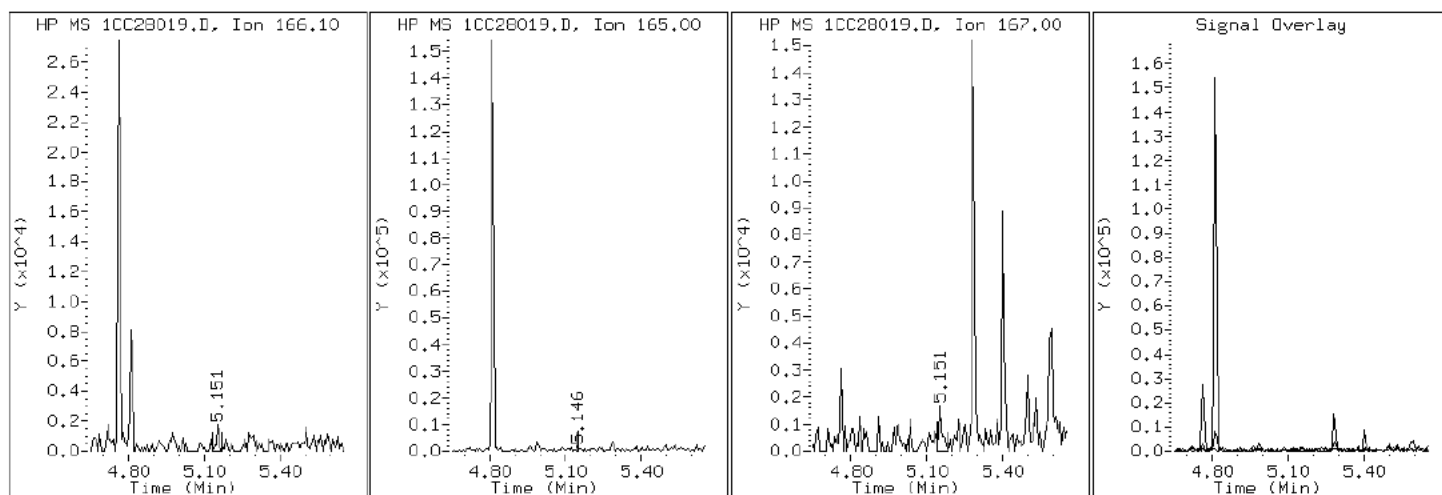
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

9 Fluorene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

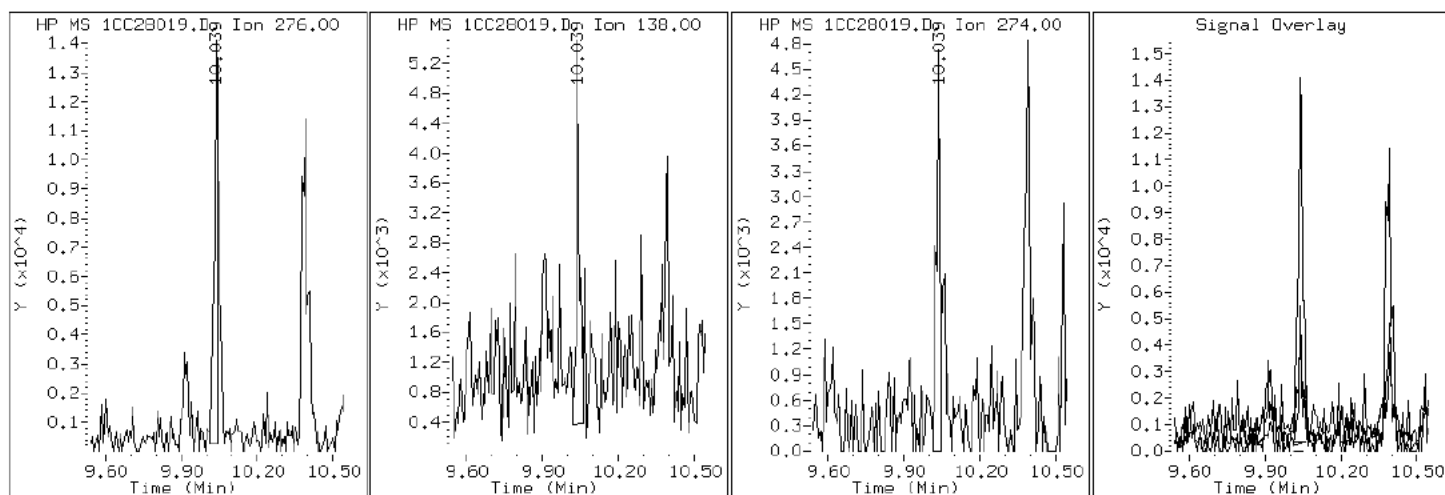
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

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



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

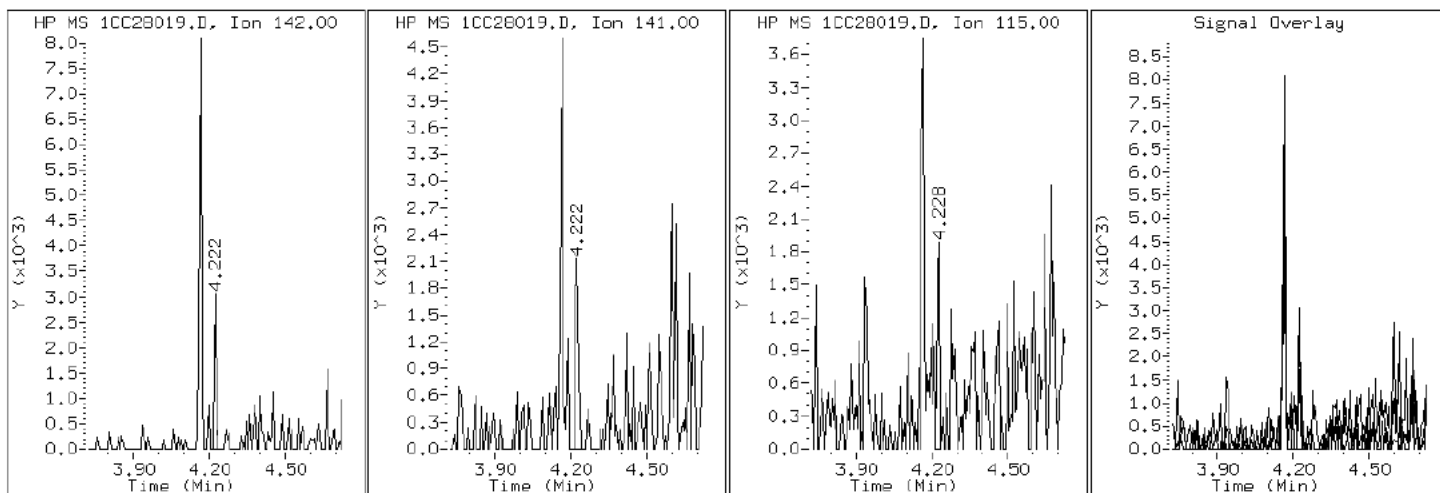
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

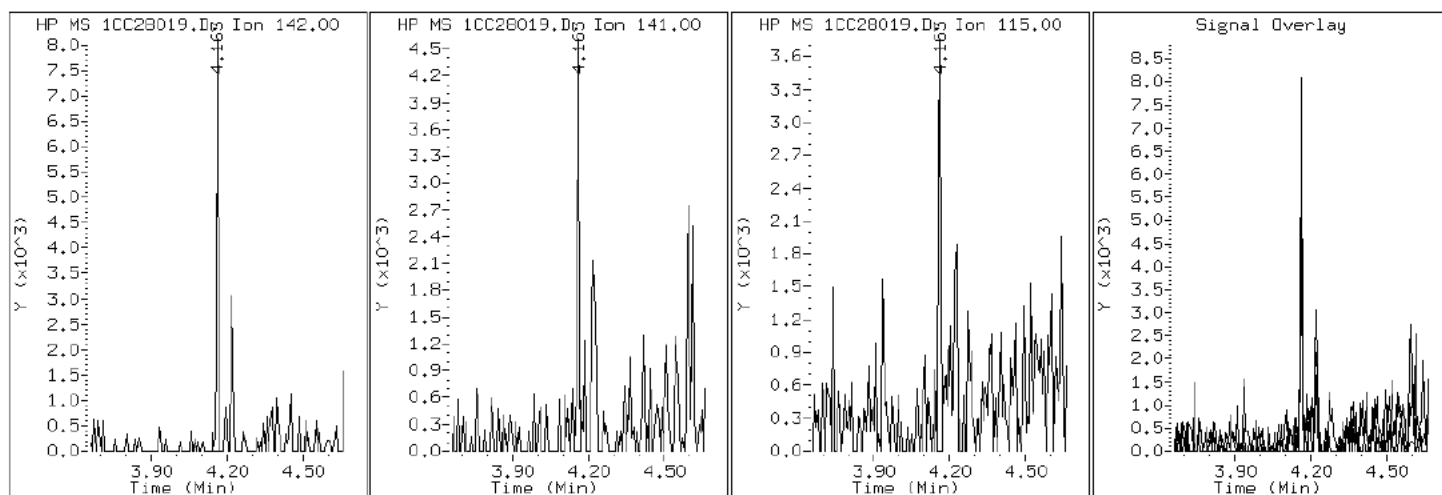
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

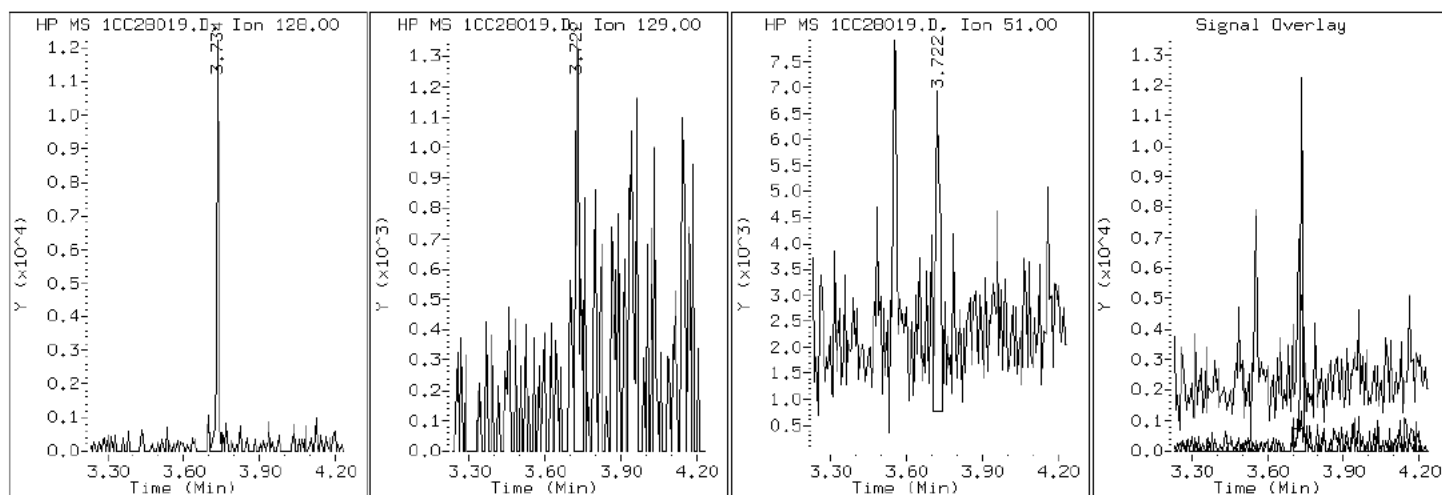
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

## 2 Naphthalene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

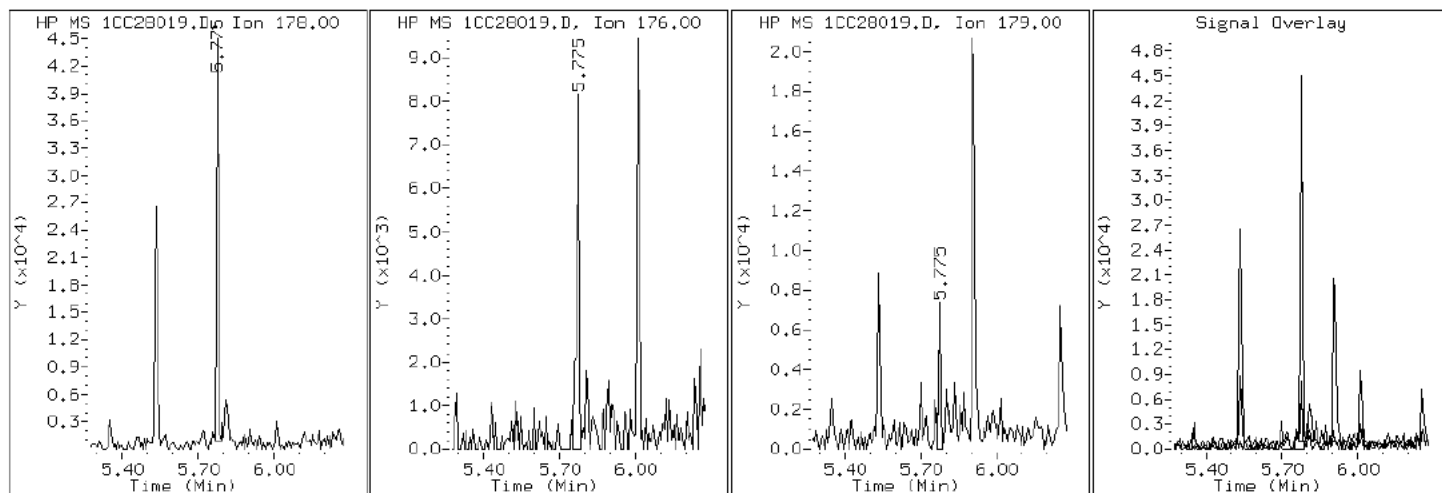
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28019.D

Date: 28-MAR-2013 16:54

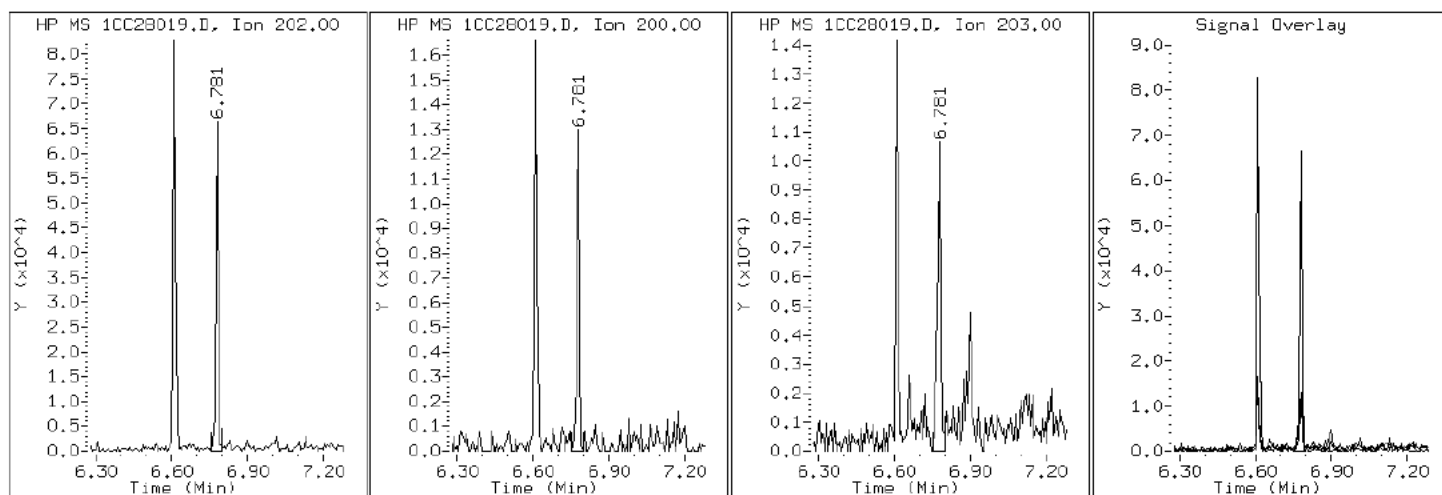
Client ID: CV1360AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88527-a-33-a

Operator: SCC

16 Pyrene



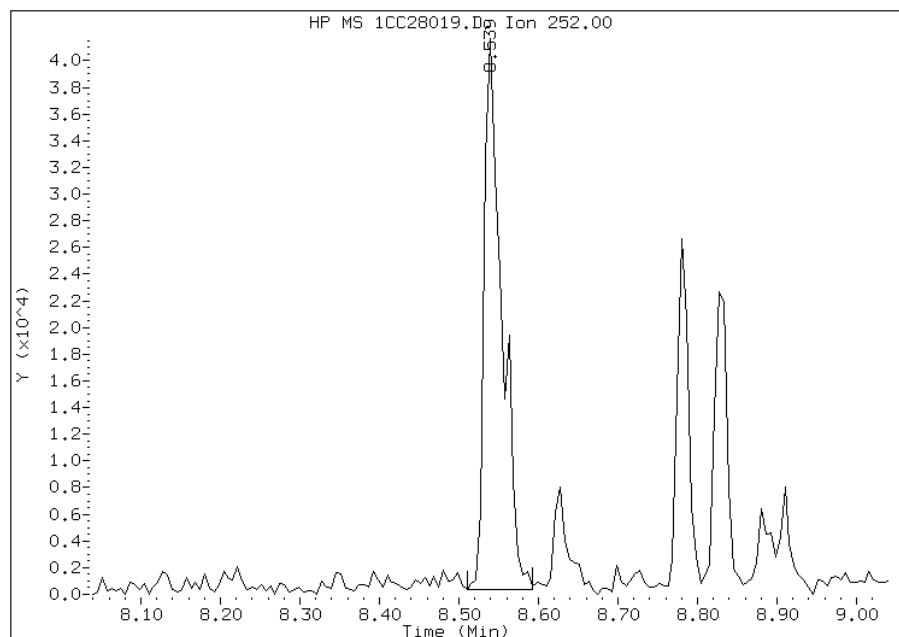


## Manual Integration Report

Data File: 1CC28019.D  
Inj. Date and Time: 28-MAR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID: CV1360AE-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 03/28/2013

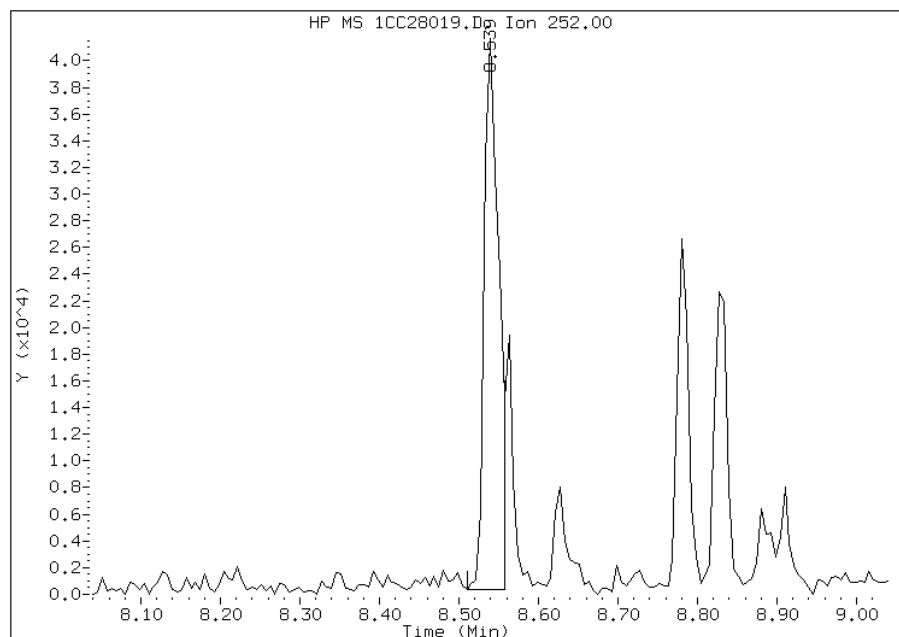
### Processing Integration Results

RT: 8.54  
Response: 64285  
Amount: 2  
Conc: 243



### Manual Integration Results

RT: 8.54  
Response: 52842  
Amount: 2  
Conc: 200



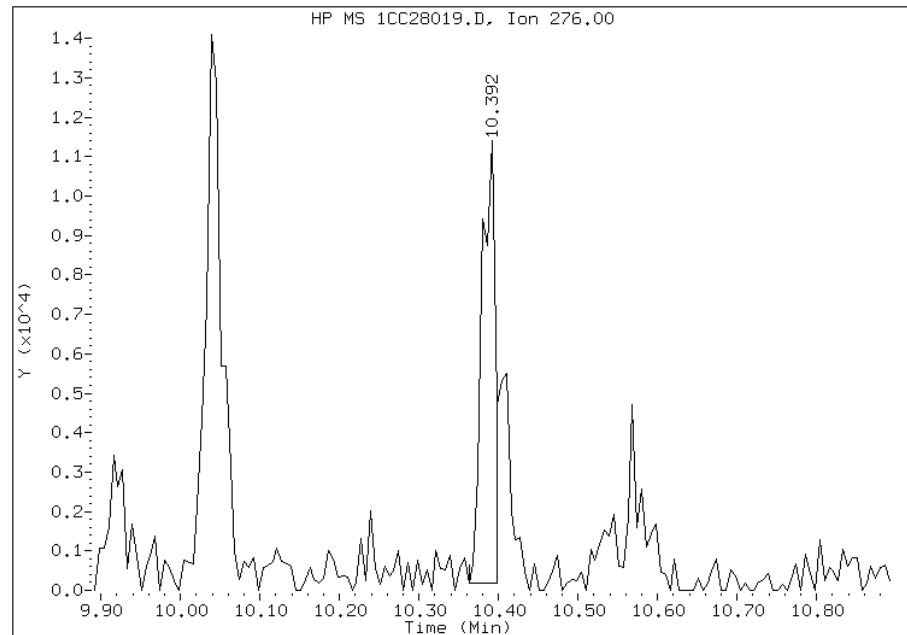
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:19  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1CC28019.D  
Inj. Date and Time: 28-MAR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID: CV1360AE-GS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 03/28/2013

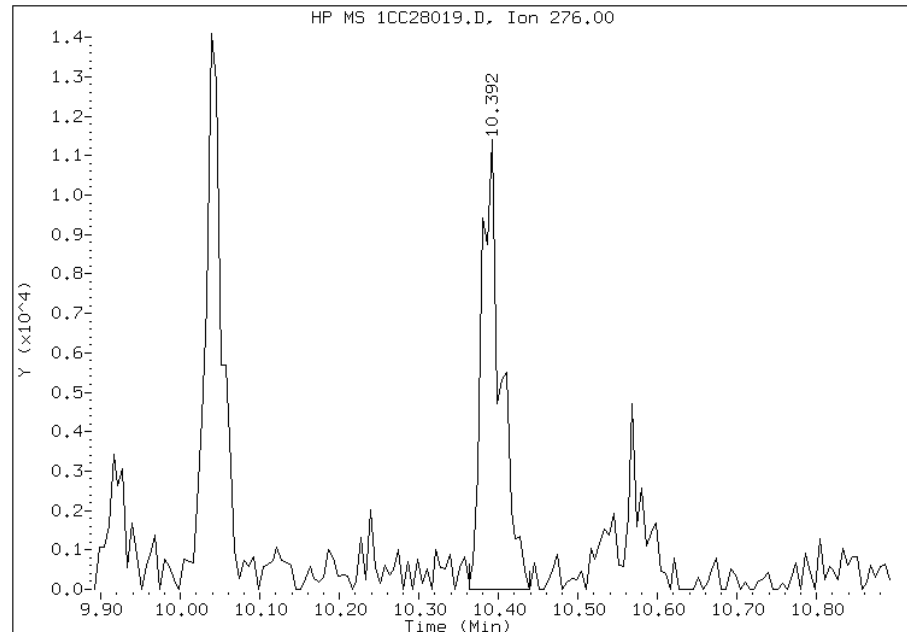
### Processing Integration Results

RT: 10.39  
Response: 12953  
Amount: 0  
Conc: 51



### Manual Integration Results

RT: 10.39  
Response: 19083  
Amount: 1  
Conc: 75



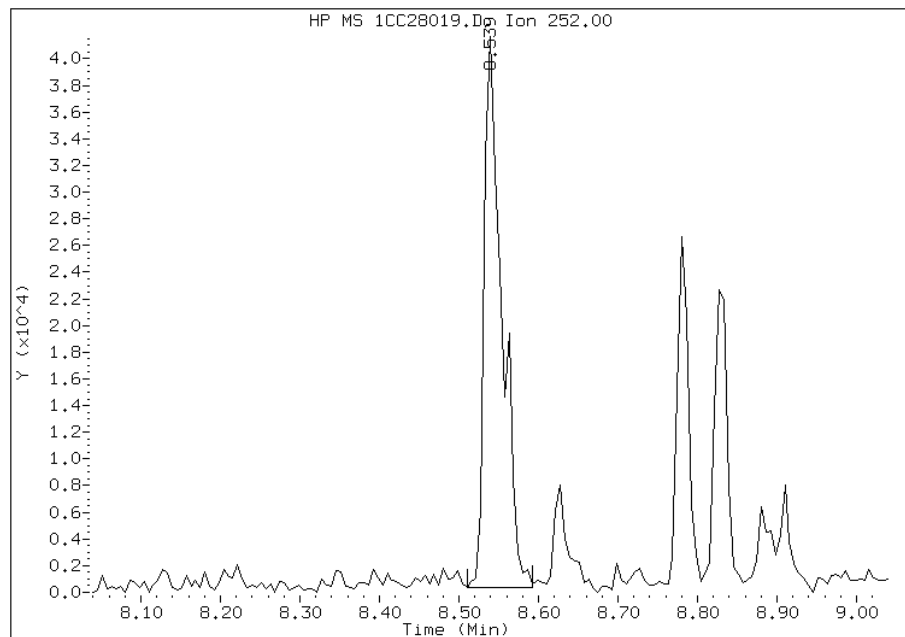
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:19  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CC28019.D  
Inj. Date and Time: 28-MAR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID: CV1360AE-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 03/28/2013

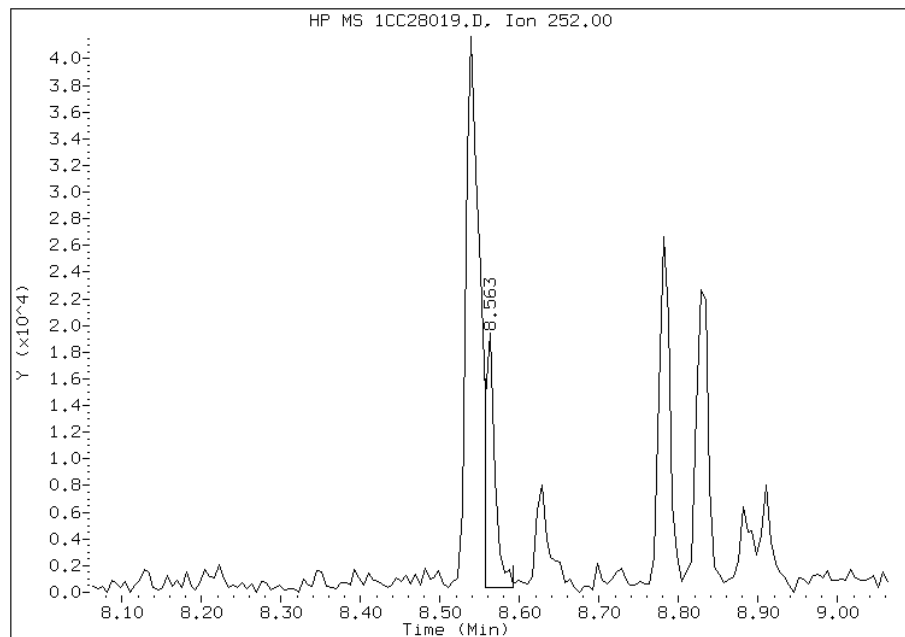
### Processing Integration Results

RT: 8.54  
Response: 64285  
Amount: 2  
Conc: 237



### Manual Integration Results

RT: 8.56  
Response: 16505  
Amount: 1  
Conc: 61



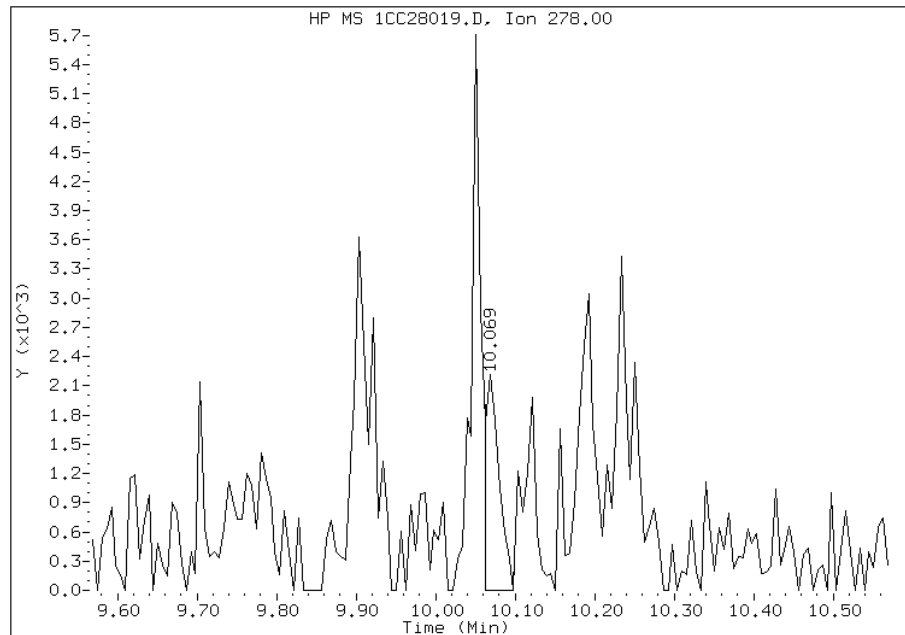
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:19  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CC28019.D  
Inj. Date and Time: 28-MAR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID: CV1360AE-GS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 03/28/2013

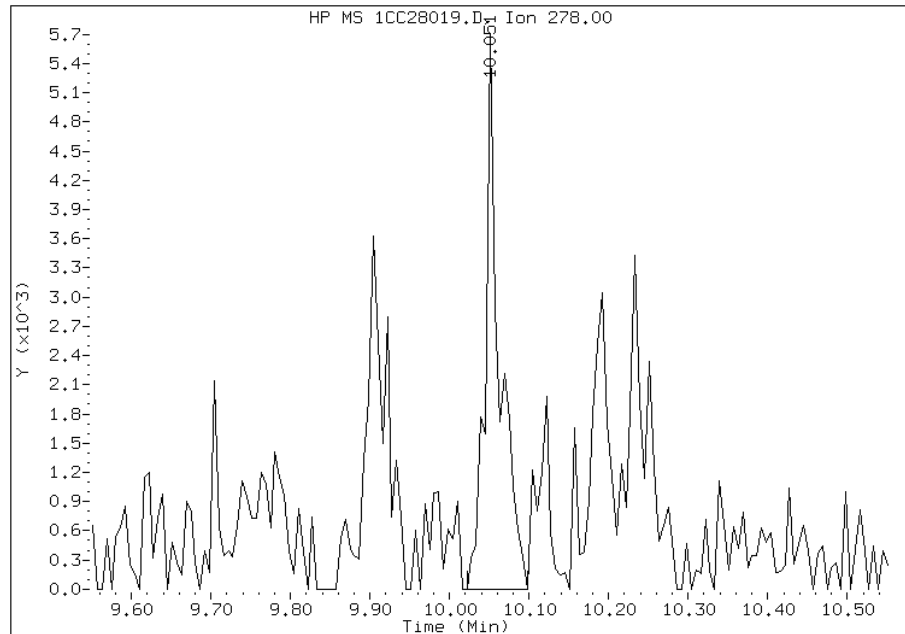
### Processing Integration Results

RT: 10.07  
Response: 2703  
Amount: 0  
Conc: 11



### Manual Integration Results

RT: 10.05  
Response: 7204  
Amount: 0  
Conc: 30



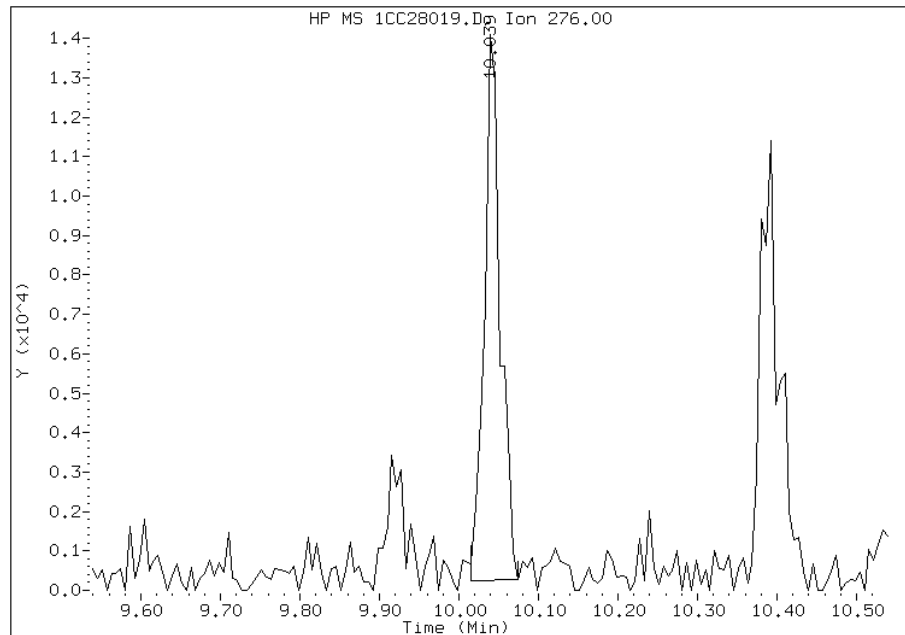
Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:19  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CC28019.D  
Inj. Date and Time: 28-MAR-2013 16:54  
Instrument ID: BSMC5973.i  
Client ID: CV1360AE-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

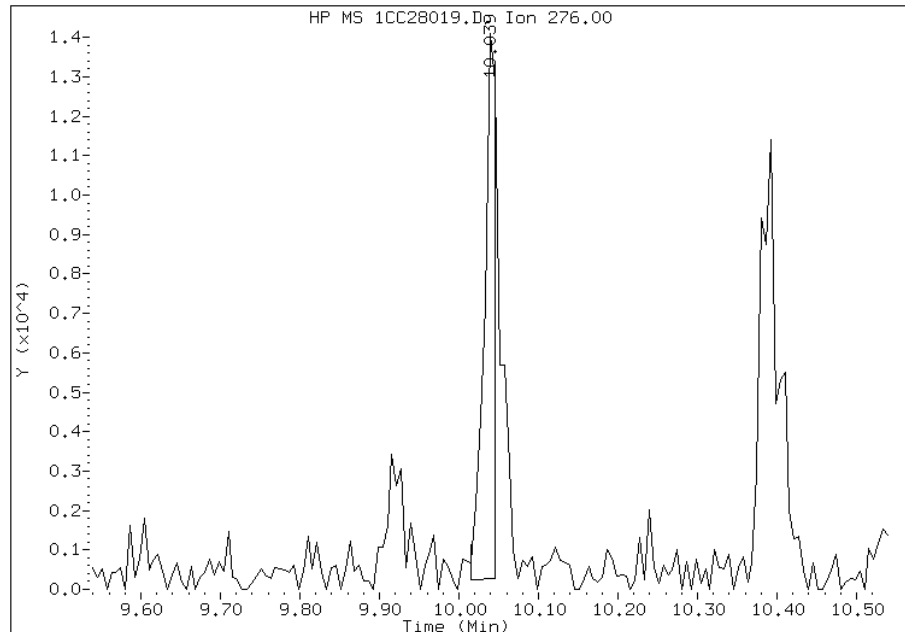
### Processing Integration Results

RT: 10.04  
Response: 19154  
Amount: 1  
Conc: 79



### Manual Integration Results

RT: 10.04  
Response: 14063  
Amount: 0  
Conc: 58



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:20  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>032013-RB-Bowls + Spoons</u>	Lab Sample ID: <u>680-88527-34</u>
Matrix: <u>Water</u>	Lab File ID: <u>1DC25024.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/20/2013 10:30</u>
Extract. Method: <u>3520C</u>	Date Extracted: <u>03/22/2013 15:26</u>
Sample wt/vol: <u>1000 (mL)</u>	Date Analyzed: <u>03/25/2013 18:26</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135796</u>	Units: <u>ug/L</u>

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	63		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25024.D  
 Lab Smp Id: 680-88527-A-34-A Client Smp ID: 032013-RB-Bowls + S  
 Inj Date : 25-MAR-2013 18:26  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-A-34-A  
 Misc Info : 680-88527-A-34-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\dFASTPAHi.m  
 Meth Date : 25-Mar-2013 10:50 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 24  
 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 FINAL
							( ug/l) ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.127	6.125	(1.000)	3210887	40.0000	
* 6 Acenaphthene-d10	164	7.801	7.800	(1.000)	2018155	40.0000	
* 9 Phenanthrene-d10	188	9.064	9.063	(1.000)	3253769	40.0000	
\$ 13 o-Terphenyl	230	9.370	9.374	(1.034)	319036	6.34060	6.3
* 17 Chrysene-d12	240	11.403	11.407	(1.000)	3202291	40.0000	
* 22 Perylene-d12	264	13.271	13.270	(1.000)	3277921	40.0000	

Data File: 1DC25024.D

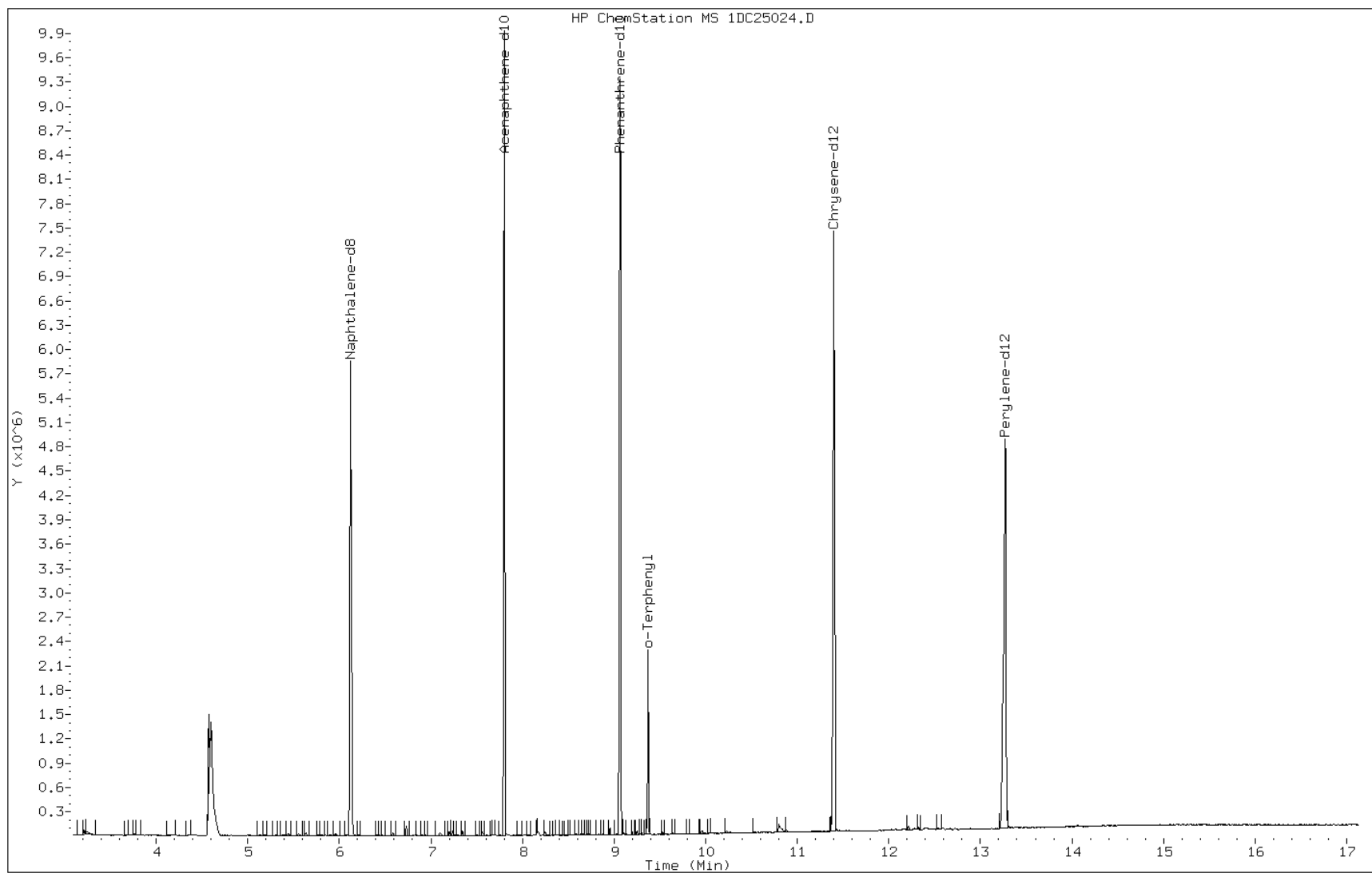
Date: 25-MAR-2013 18:26

Client ID: 032013-RB-Bowls + S

Instrument: BSMSD.i

Sample Info: 680-88527-A-34-A

Operator: SCC





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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 135466

SDG No.: 68088527-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9182 0.9843	0.8682 1.0304	0.8414	0.9130	0.9134	Ave		0.9241			0.0000	7.0		15.0			
2-Methylnaphthalene	0.3173 0.5626	0.3880 0.5601	0.4398	0.4970	0.4939	Lin	0.0220	0.5669			0.0000				0.9977		0.9900
1-Methylnaphthalene	0.4777 0.5845	0.5531 0.6040	0.4506	0.5167	0.5332	Ave		0.5314			0.0000	10.4		15.0			
Acenaphthylene	1.0811 1.6297	1.1761 1.8722	1.3170	1.5059	1.4858	Qua	0.0041	0.7073	-0.075		0.0000				0.9997		0.9900
Acenaphthene	0.5482 0.9648	0.7151 1.1119	0.7239	0.7842	0.8623	Qua	0.0105	1.2107	-0.231		0.0000				0.9995		0.9900
Fluorene	0.9196 1.1621	0.7108 1.4041	0.9794	0.9875	1.0362	Qua	0.0051	1.0243	-0.180		0.0000				0.9997		0.9900
Phenanthrene	0.8931 1.0963	0.9370 1.1892	0.9513	1.0358	0.9939	Ave		1.0138			0.0000	10.1		15.0			
Anthracene	0.7882 1.0781	0.9144 1.1902	0.9143	1.0125	0.9832	Ave		0.9830			0.0000	13.1		15.0			
Carbazole	0.9171 0.8644	0.8482 1.0183	0.7772	0.8200	0.7858	Ave		0.8616			0.0000	9.8		15.0			
Fluoranthene	0.8759 1.0892	0.9263 1.2393	0.9139	1.0041	0.9662	Ave		1.0021			0.0000	12.5		15.0			
Pyrene	1.1506 1.2084	1.1188 1.2358	1.0383	1.1546	1.1218	Ave		1.1469			0.0000	5.6		15.0			
Benzo[a]anthracene	2.3322 1.1494	1.0618 1.1597	1.0397	1.1448	1.1388	Lin	0.0042	1.1599			0.0000				0.9998		0.9900
Chrysene	0.9519 1.0963	1.1293 1.0909	0.9784	1.0416	0.9636	Ave		1.0360			0.0000	6.9		15.0			
Benzo[b]fluoranthene	0.5952 0.9716	0.9206 1.1134	0.8928	0.9147	0.9663	Lin	0.0301	1.1022			0.0000				0.9937		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 CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 135466

SDG No.: 68088527-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.2698 1.1415	0.8332 1.1801	0.9701	1.1224	1.0355	Ave		1.0790			0.0000	13.5		15.0			
Benzo[a]pyrene	0.9834 0.9683	0.8745 1.0399	0.8429	0.9297	0.9323	Ave		0.9387			0.0000	7.1		15.0			
Indeno[1,2,3-cd]pyrene	0.7699 0.8966	0.7718 1.0634	0.7357	0.8848	0.8069	Ave		0.8470			0.0000	13.3		15.0			
Dibenz(a,h)anthracene	0.7891 0.8904	0.7149 1.0350	0.7901	0.8091	0.8477	Ave		0.8395			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.9244 0.8344	0.8719 0.9257	0.7802	0.8324	0.7992	Ave		0.8526			0.0000	6.7		15.0			
o-Terphenyl	0.6407 0.6114	0.4486 0.7113	0.5134	0.5554	0.5318	Qua	0.0019	1.9448	-0.611		0.0000				0.9992		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.: 680-88527-2 Analy Batch No.: 135466

SDG No.: 68088527-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-135466/4	1AC15004.D
Level 2	IC 660-135466/5	1AC15005.D
Level 3	IC 660-135466/6	1AC15006.D
Level 4	IC 660-135466/7	1AC15007.D
Level 5	ICIS 660-135466/3	1AC15003.D
Level 6	IC 660-135466/8	1AC15008.D
Level 7	IC 660-135466/9	1AC15009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	2130 303622	9402 536733	48636	91487	212955	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	736 173551	4202 291739	25420	49806	115161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1108 180305	5990 314615	26047	51777	124303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1761 319635	9023 568020	45490	91795	222508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	893 189235	5486 337349	25006	47803	129142	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	1498 227926	5453 425998	33830	60194	155177	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	1974 303905	9354 493056	49383	93111	231718	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1742 298885	9128 493502	47464	91019	229236	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2027 239621	8467 422232	40347	73717	183202	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1936 301939	9247 513840	47441	90262	225265	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2259 323353	9768 535158	49430	97774	238669	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	4579 307563	9270 502221	49496	96948	242288	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1869 293362	9859 472426	46576	88211	205028	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Lin	1363 285512	9078 523197	49338	86931	204244	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2908 335436	8216 554548	53608	106676	218874	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.: 680-88527-2 Analy Batch No.: 135466

SDG No.: 68088527-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2013 12:54 Calibration End Date: 03/15/2013 14:25 Calibration ID: 2833

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	2252 284542	8623 488657	46577	88362	197061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	1763 263461	7610 499702	40658	84090	170555	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	1807 261651	7049 486347	43660	76903	179169	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	2117 245198	8597 434983	43115	79114	168914	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	1416 169501	4478 294944	26653	49925	123980	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD  
Lin = Linear ISTD  
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15003.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 15-MAR-2013 12:54  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15003.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.D  
 Als bottle: 3 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.303	2.303	(1.000)	466294	40.0000	
* 6 Acenaphthene-d10	164	3.323	3.323	(1.000)	299519	40.0000	
* 10 Phenanthrene-d10	188	4.247	4.247	(1.000)	466296	40.0000	
\$ 14 o-Terphenyl	230	4.525	4.525	(1.065)	123980	20.0000	18.5533
* 18 Chrysene-d12	240	6.245	6.245	(1.000)	425528	40.0000	
* 23 Perylene-d12	264	7.330	7.330	(1.000)	422731	40.0000	
2 Naphthalene	128	2.313	2.313	(1.005)	212955	20.0000	19.7675
3 2-Methylnaphthalene	141	2.714	2.714	(1.179)	115161	20.0000	21.2202
4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	124303	20.0000	20.0661
5 Acenaphthylene	152	3.238	3.238	(0.974)	222508	20.0000	20.6609
7 Acenaphthene	154	3.344	3.344	(1.006)	129142	20.0000	21.1411
9 Fluorene	166	3.649	3.649	(1.098)	155177	20.0000	20.1489
11 Phenanthrene	178	4.263	4.263	(1.004)	231718	20.0000	19.6069
12 Anthracene	178	4.295	4.295	(1.011)	229236	20.0000	20.0044
13 Carbazole	167	4.456	4.456	(1.049)	183202	20.0000	18.2403
15 Fluoranthene	202	5.113	5.113	(1.204)	225265	20.0000	19.2828
16 Pyrene	202	5.278	5.278	(0.845)	238669	20.0000	19.5616
17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	242288	20.0000	19.7327
19 Chrysene	228	6.261	6.261	(1.003)	205028	20.0000	18.6028
20 Benzo(b)fluoranthene	252	7.052	7.052	(0.962)	204244	20.0000	21.2219
21 Benzo(k)fluoranthene	252	7.073	7.073	(0.965)	218874	20.0000	19.1947
22 Benzo(a)pyrene	252	7.282	7.282	(0.993)	197061	20.0000	19.8637
24 Indeno(1,2,3-cd)pyrene	276	8.035	8.035	(1.096)	170555	20.0000	19.0533(M)
25 Dibenzo(a,h)anthracene	278	8.045	8.045	(1.098)	179169	20.0000	20.1955
26 Benzo(g,h,i)perylene	276	8.222	8.222	(1.122)	168914	20.0000	18.7463

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15003.D

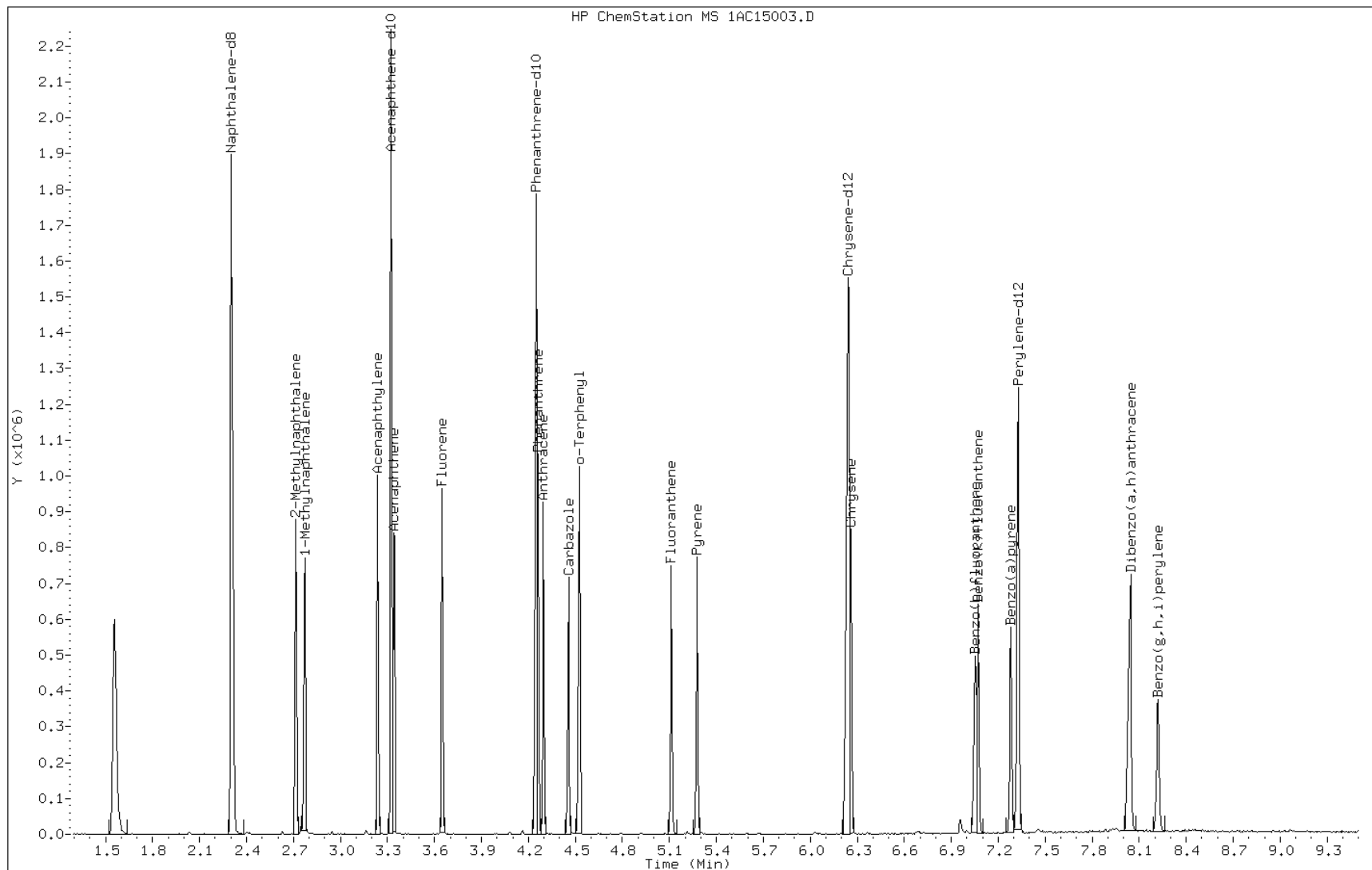
Date: 15-MAR-2013 12:54

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1512372

Operator: SCC

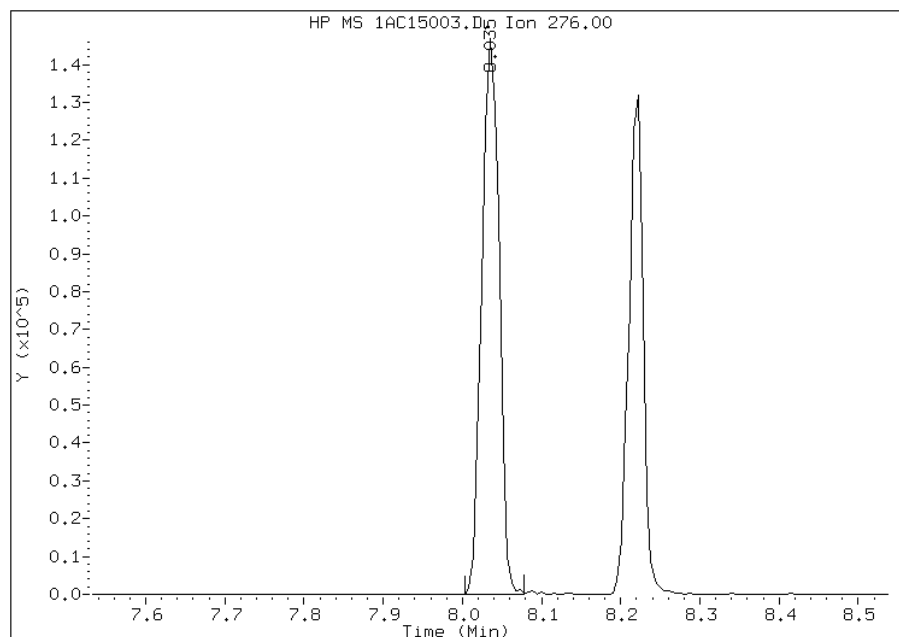


## Manual Integration Report

Data File: 1AC15003.D  
Inj. Date and Time: 15-MAR-2013 12:54  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

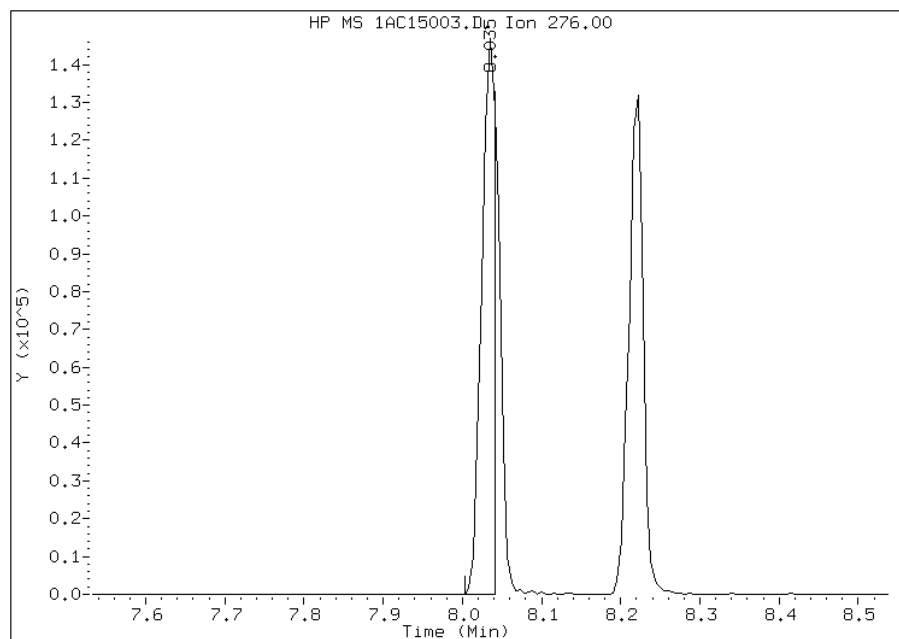
### Processing Integration Results

RT: 8.04  
Response: 220748  
Amount: 25  
Conc: 25



### Manual Integration Results

RT: 8.04  
Response: 170555  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:45  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15004.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 15-MAR-2013 13:09  
 Operator : SCC  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15004.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 12:54 Cal File: 1AC15003.D  
 Als bottle: 4 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.306	2.303	(1.000)	463929	40.0000	
* 6 Acenaphthene-d10	164	3.321	3.323	(1.000)	325790	40.0000	
* 10 Phenanthrene-d10	188	4.245	4.247	(1.000)	442045	40.0000	
\$ 14 o-Terphenyl	230	4.517	4.525	(1.064)	1416	0.20000	0.2235
* 18 Chrysene-d12	240	6.243	6.245	(1.000)	392679	40.0000	
* 23 Perylene-d12	264	7.327	7.330	(1.000)	458007	40.0000	
2 Naphthalene	128	2.311	2.313	(1.002)	2130	0.20000	0.1987
3 2-Methylnaphthalene	141	2.717	2.714	(1.178)	736	0.20000	0.1363(Q)
4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	1108	0.20000	0.1797
5 Acenaphthylene	152	3.235	3.238	(0.974)	1761	0.20000	0.1503
7 Acenaphthene	154	3.337	3.344	(1.005)	893	0.20000	0.1344
9 Fluorene	166	3.646	3.649	(1.098)	1498	0.20000	0.1788(T)
11 Phenanthrene	178	4.261	4.263	(1.004)	1974	0.20000	0.1761
12 Anthracene	178	4.298	4.295	(1.013)	1742	0.20000	0.1603
13 Carbazole	167	4.453	4.456	(1.049)	2027	0.20000	0.2128(T)
15 Fluoranthene	202	5.110	5.113	(1.204)	1936	0.20000	0.1748
16 Pyrene	202	5.276	5.278	(0.845)	2259	0.20000	0.2006
17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	4579	0.20000	0.4041
19 Chrysene	228	6.253	6.261	(1.002)	1869	0.20000	0.1837
20 Benzo(b)fluoranthene	252	7.049	7.052	(0.962)	1363	0.20000	0.1307
21 Benzo(k)fluoranthene	252	7.065	7.073	(0.964)	2908	0.20000	0.2353
22 Benzo(a)pyrene	252	7.274	7.282	(0.993)	2252	0.20000	0.2095
24 Indeno(1,2,3-cd)pyrene	276	8.027	8.035	(1.096)	1763	0.20000	0.1817(M)
25 Dibenzo(a,h)anthracene	278	8.032	8.045	(1.096)	1807	0.20000	0.1879
26 Benzo(g,h,i)perylene	276	8.214	8.222	(1.121)	2117	0.20000	0.2168

QC Flag Legend

T - Target compound detected outside RT window.  
 Q - Qualifier signal failed the ratio test.  
 M - Compound response manually integrated.



Data File: 1AC15004.D

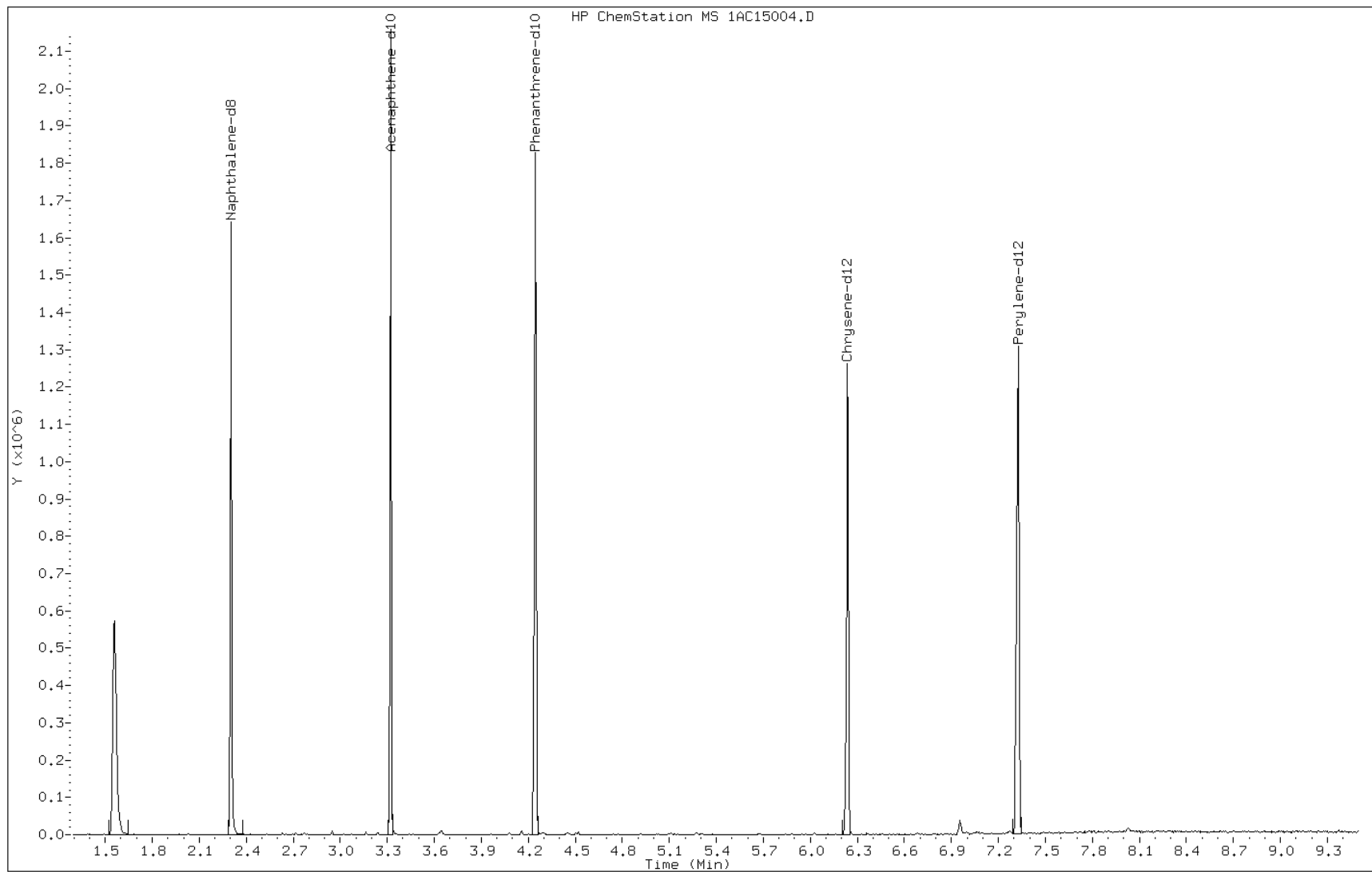
Date: 15-MAR-2013 13:09

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512358

Operator: SCC

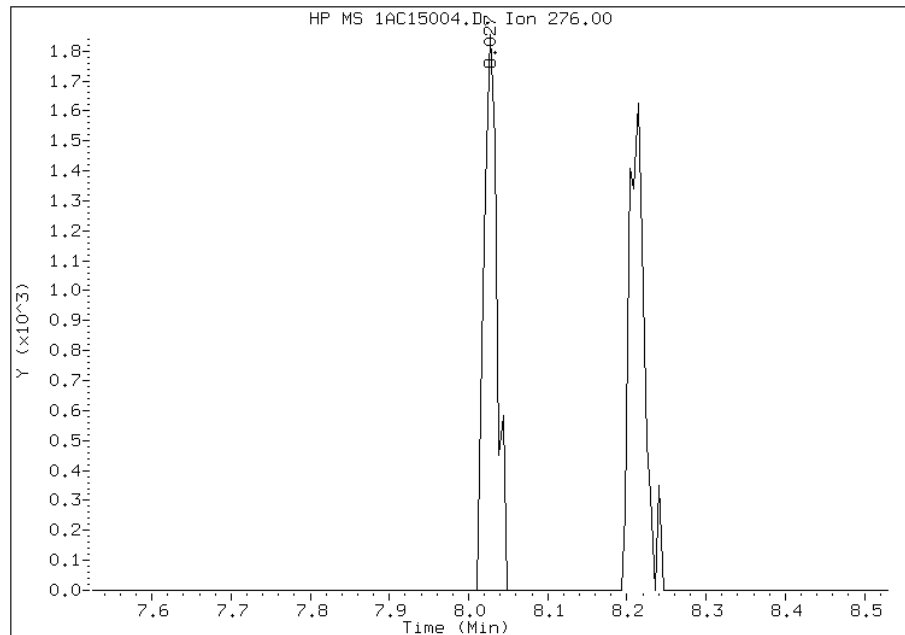


## Manual Integration Report

Data File: 1AC15004.D  
Inj. Date and Time: 15-MAR-2013 13:09  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

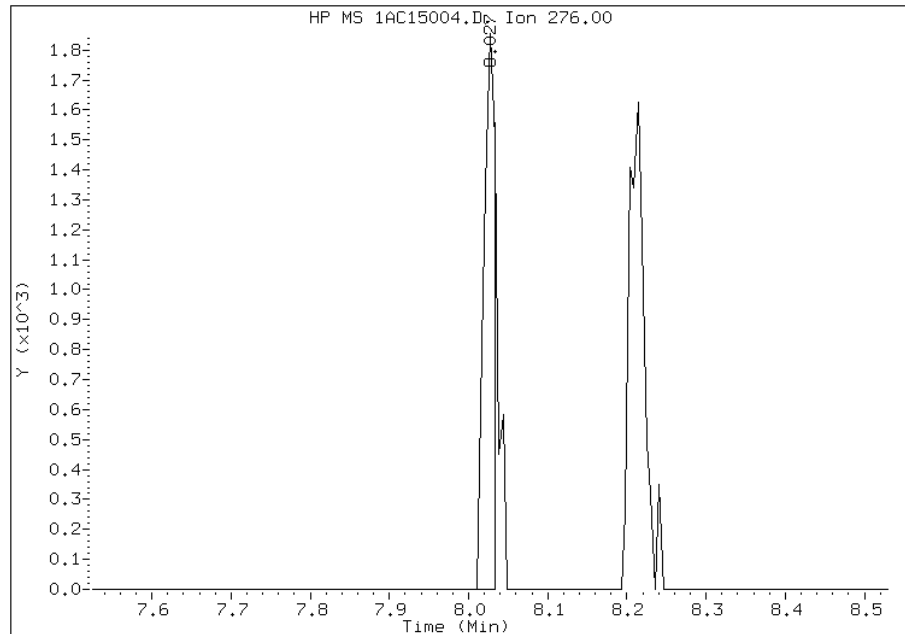
### Processing Integration Results

RT: 8.03  
Response: 2094  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 8.03  
Response: 1763  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:47  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 15-MAR-2013 13:24  
 Operator : SCC  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15005.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:09 Cal File: 1AC15004.D  
 Als bottle: 5 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.304	2.303	(1.000)	433180	40.0000	
* 6 Acenaphthene-d10	164	3.324	3.323	(1.000)	306883	40.0000	
* 10 Phenanthrene-d10	188	4.248	4.247	(1.000)	399304	40.0000	
\$ 14 o-Terphenyl	230	4.521	4.525	(1.064)	4478	1.00000	0.7825
* 18 Chrysene-d12	240	6.241	6.245	(1.000)	349216	40.0000	
* 23 Perylene-d12	264	7.325	7.330	(1.000)	394419	40.0000	
2 Naphthalene	128	2.314	2.313	(1.005)	9402	1.00000	0.9394
3 2-Methylnaphthalene	141	2.715	2.714	(1.179)	4202	1.00000	0.8334
4 1-Methylnaphthalene	142	2.768	2.773	(1.202)	5990	1.00000	1.0408
5 Acenaphthylene	152	3.239	3.238	(0.974)	9023	1.00000	0.8177
7 Acenaphthene	154	3.340	3.344	(1.005)	5486	1.00000	0.8765
9 Fluorene	166	3.650	3.649	(1.098)	5453	1.00000	0.6910
11 Phenanthrene	178	4.259	4.263	(1.002)	9354	1.00000	0.9242
12 Anthracene	178	4.291	4.295	(1.010)	9128	1.00000	0.9302
13 Carbazole	167	4.451	4.456	(1.048)	8467	1.00000	0.9844
15 Fluoranthene	202	5.114	5.113	(1.204)	9247	1.00000	0.9243
16 Pyrene	202	5.274	5.278	(0.845)	9768	1.00000	0.9755
17 Benzo(a)anthracene	228	6.235	6.235	(0.999)	9270	1.00000	0.9199
19 Chrysene	228	6.252	6.261	(1.002)	9859	1.00000	1.0900
20 Benzo(b)fluoranthene	252	7.048	7.052	(0.962)	9078	1.00000	1.0109
21 Benzo(k)fluoranthene	252	7.064	7.073	(0.964)	8216	1.00000	0.7722
22 Benzo(a)pyrene	252	7.277	7.282	(0.993)	8623	1.00000	0.9315
24 Indeno(1,2,3-cd)pyrene	276	8.025	8.035	(1.096)	7610	1.00000	0.9111(M)
25 Dibenzo(a,h)anthracene	278	8.030	8.045	(1.096)	7049	1.00000	0.8515
26 Benzo(g,h,i)perylene	276	8.212	8.222	(1.121)	8597	1.00000	1.0225

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15005.D

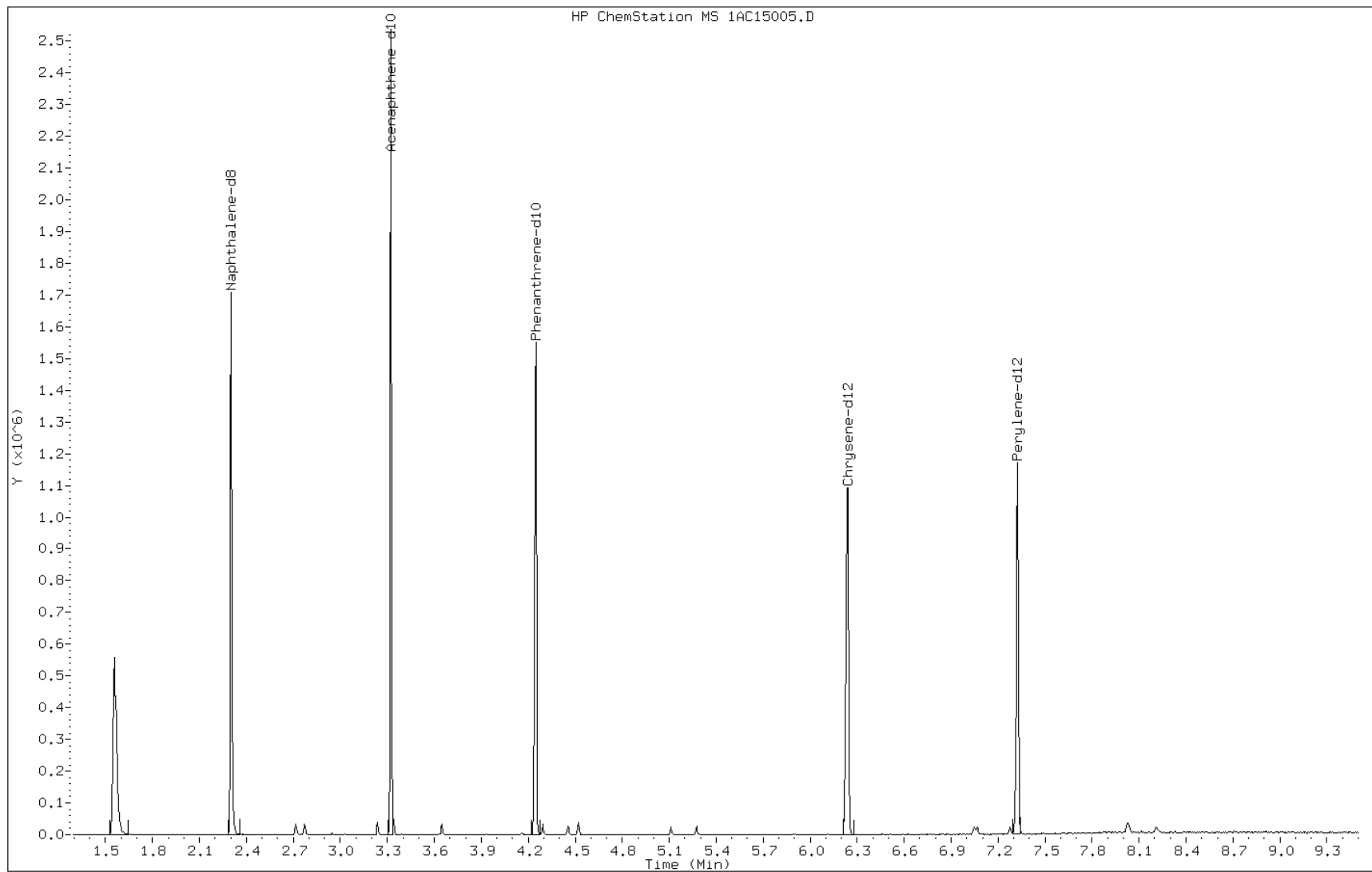
Date: 15-MAR-2013 13:24

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512359

Operator: SCC

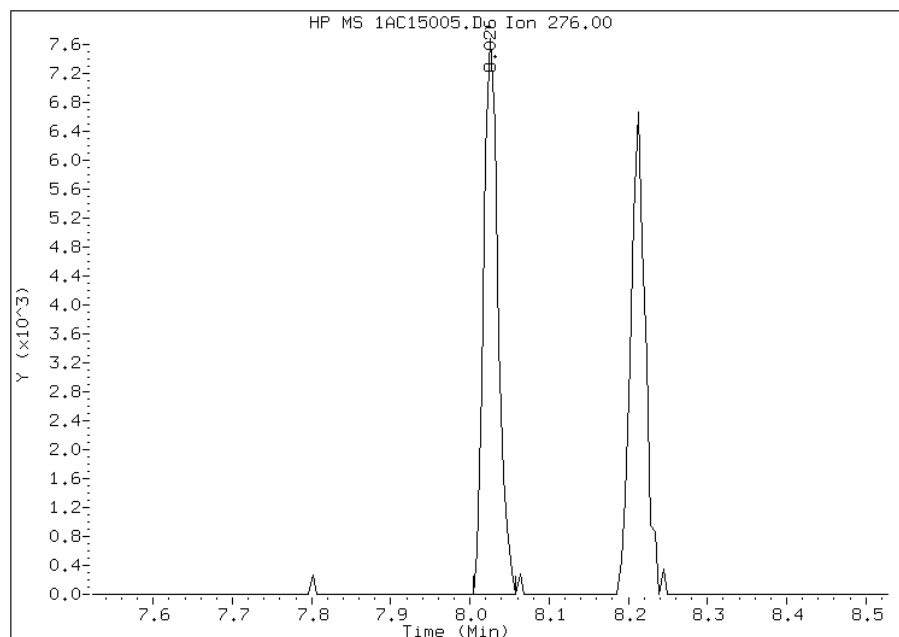


## Manual Integration Report

Data File: 1AC15005.D  
Inj. Date and Time: 15-MAR-2013 13:24  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

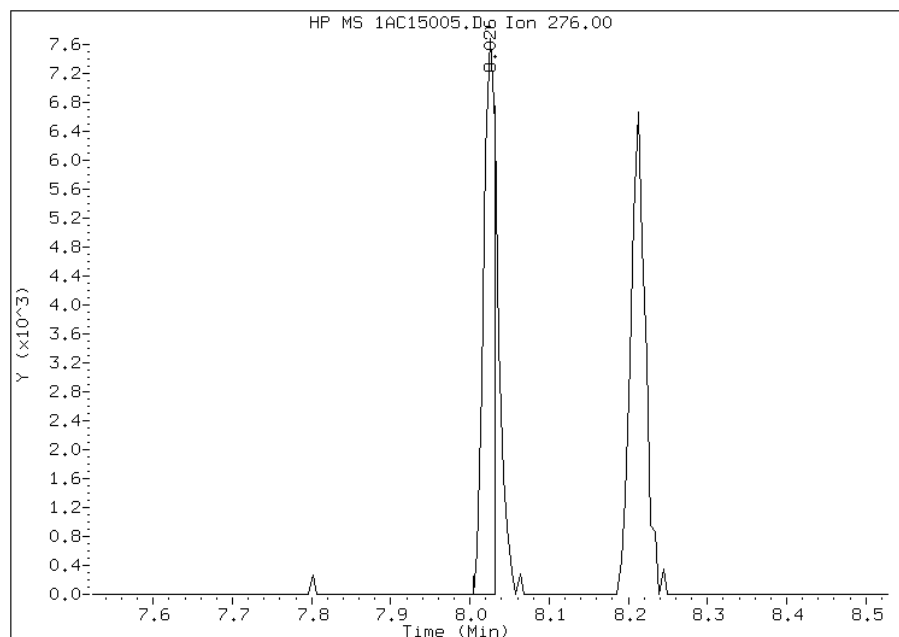
### Processing Integration Results

RT: 8.03  
Response: 9630  
Amount: 1  
Conc: 1



### Manual Integration Results

RT: 8.03  
Response: 7610  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:48  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15006.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 15-MAR-2013 13:39  
 Operator : SCC  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15006.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:24 Cal File: 1AC15005.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.301	2.303	(1.000)	462418	40.0000	
* 6 Acenaphthene-d10	164	3.322	3.323	(1.000)	276334	40.0000	
* 10 Phenanthrene-d10	188	4.246	4.247	(1.000)	415283	40.0000	
\$ 14 o-Terphenyl	230	4.523	4.525	(1.065)	26653	5.00000	4.4785
* 18 Chrysene-d12	240	6.238	6.245	(1.000)	380837	40.0000	
* 23 Perylene-d12	264	7.328	7.330	(1.000)	442088	40.0000	
2 Naphthalene	128	2.312	2.313	(1.005)	48636	5.00000	4.5524
3 2-Methylnaphthalene	141	2.713	2.714	(1.179)	25420	5.00000	4.7233
4 1-Methylnaphthalene	142	2.771	2.773	(1.204)	26047	5.00000	4.2399
5 Acenaphthylene	152	3.236	3.238	(0.974)	45490	5.00000	4.5783
7 Acenaphthene	154	3.338	3.344	(1.005)	25006	5.00000	4.4370
9 Fluorene	166	3.647	3.649	(1.098)	33830	5.00000	4.7612
11 Phenanthrene	178	4.262	4.263	(1.004)	49383	5.00000	4.6918
12 Anthracene	178	4.294	4.295	(1.011)	47464	5.00000	4.6507
13 Carbazole	167	4.449	4.456	(1.048)	40347	5.00000	4.5105
15 Fluoranthene	202	5.111	5.113	(1.204)	47441	5.00000	4.5598
16 Pyrene	202	5.271	5.278	(0.845)	49430	5.00000	4.5267
17 Benzo(a)anthracene	228	6.233	6.235	(0.999)	49496	5.00000	4.5041
19 Chrysene	228	6.254	6.261	(1.003)	46576	5.00000	4.7219
20 Benzo(b)fluoranthene	252	7.050	7.052	(0.962)	49338	5.00000	4.9020
21 Benzo(k)fluoranthene	252	7.066	7.073	(0.964)	53608	5.00000	4.4954
22 Benzo(a)pyrene	252	7.275	7.282	(0.993)	46577	5.00000	4.4893
24 Indeno(1,2,3-cd)pyrene	276	8.023	8.035	(1.095)	40658	5.00000	4.3431(M)
25 Dibenzo(a,h)anthracene	278	8.033	8.045	(1.096)	43660	5.00000	4.7057
26 Benzo(g,h,i)perylene	276	8.210	8.222	(1.120)	43115	5.00000	4.5754

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15006.D

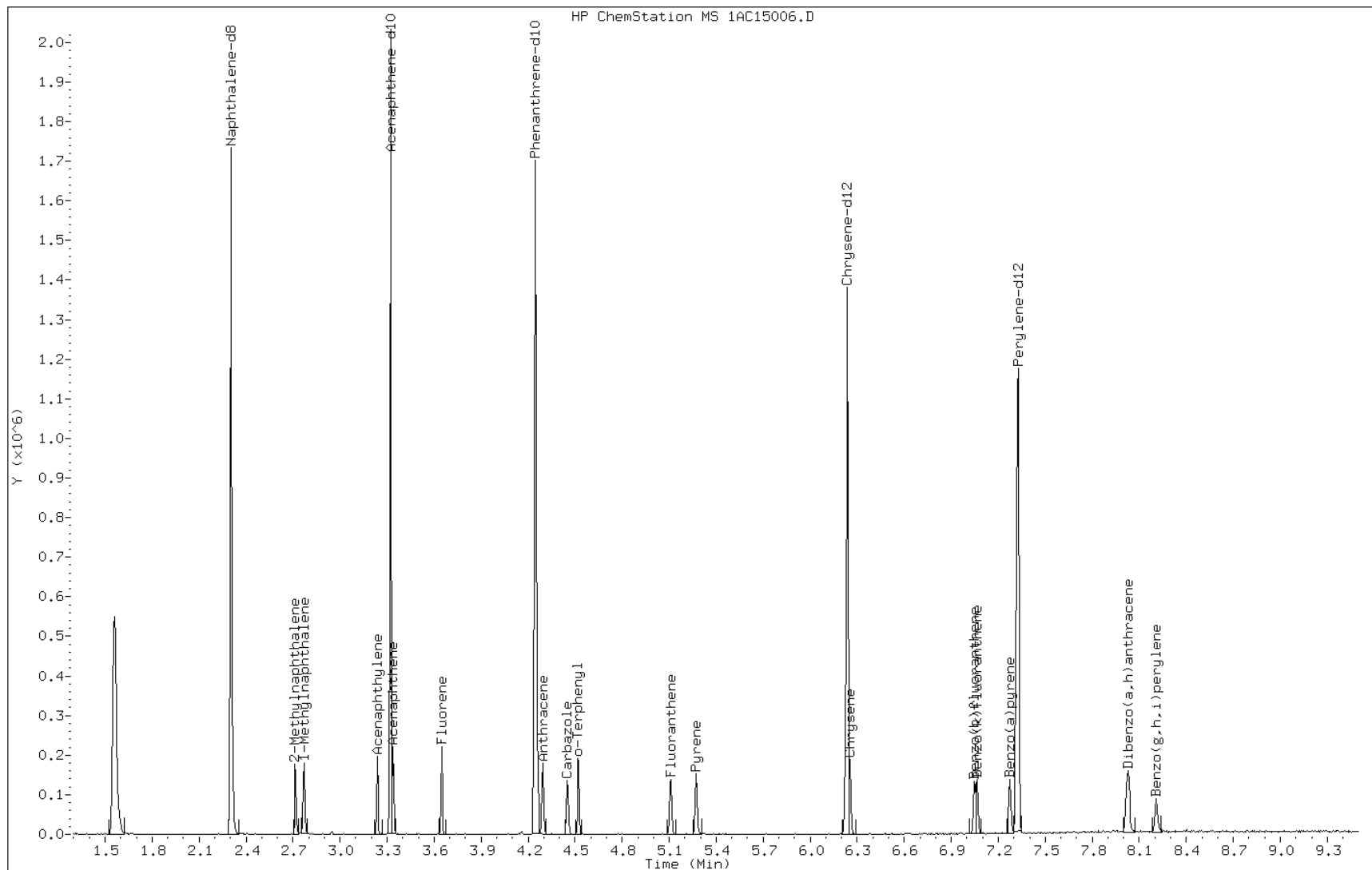
Date: 15-MAR-2013 13:39

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512360

Operator: SCC

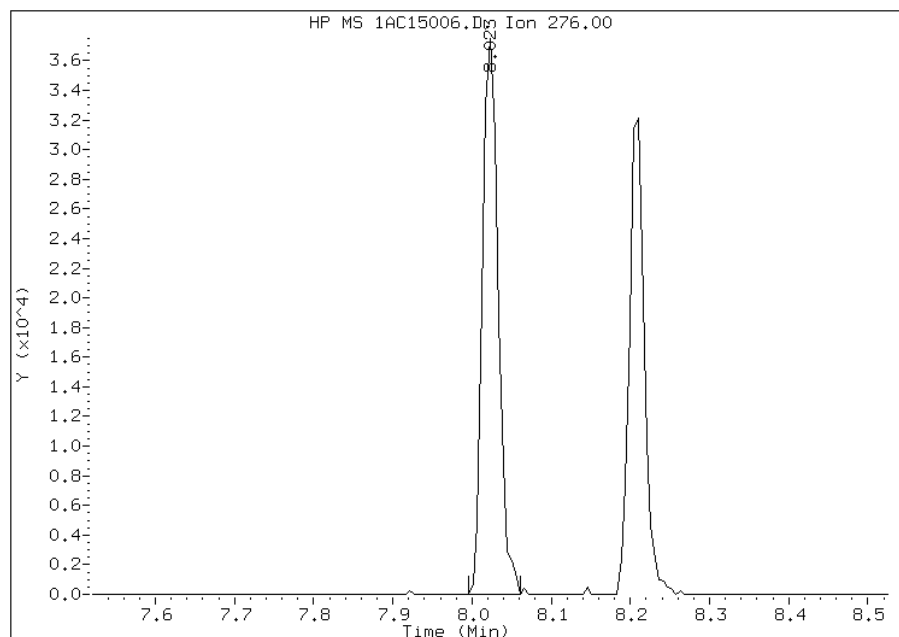


## Manual Integration Report

Data File: 1AC15006.D  
Inj. Date and Time: 15-MAR-2013 13:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

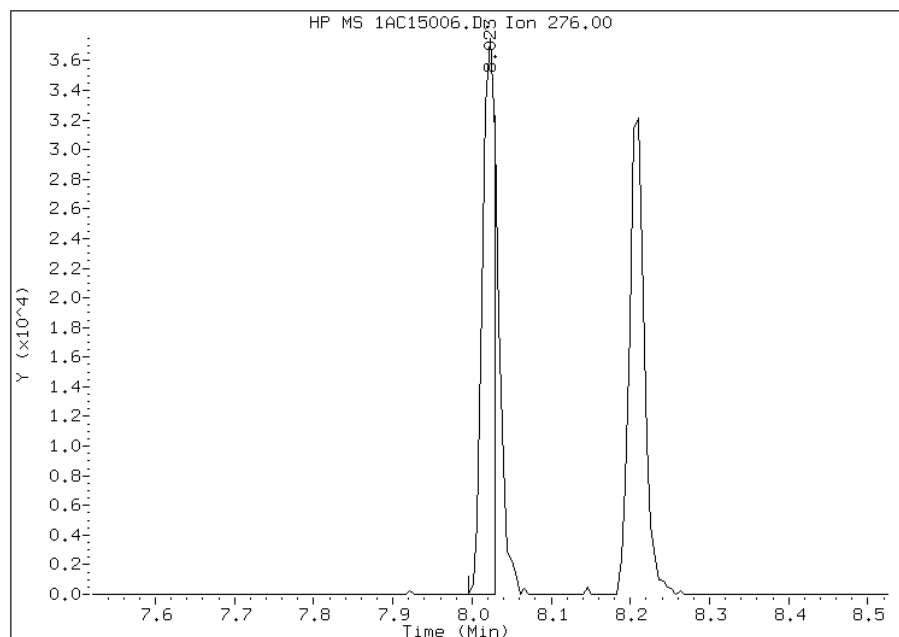
### Processing Integration Results

RT: 8.02  
Response: 51555  
Amount: 5  
Conc: 5



### Manual Integration Results

RT: 8.02  
Response: 40658  
Amount: 4  
Conc: 4



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:48  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 15-MAR-2013 13:54  
 Operator : SCC  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15007.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:39 Cal File: 1AC15006.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.301	2.303	(1.000)	400821	40.0000	
* 6 Acenaphthene-d10	164	3.321	3.323	(1.000)	243827	40.0000	
* 10 Phenanthrene-d10	188	4.245	4.247	(1.000)	359580	40.0000	
\$ 14 o-Terphenyl	230	4.523	4.525	(1.065)	49925	10.0000	9.6884
* 18 Chrysene-d12	240	6.238	6.245	(1.000)	338736	40.0000	
* 23 Perylene-d12	264	7.322	7.330	(1.000)	380168	40.0000	
2 Naphthalene	128	2.312	2.313	(1.005)	91487	10.0000	9.8794
3 2-Methylnaphthalene	141	2.718	2.714	(1.181)	49806	10.0000	10.6766
4 1-Methylnaphthalene	142	2.771	2.773	(1.204)	51777	10.0000	9.7236
5 Acenaphthylene	152	3.236	3.238	(0.974)	91795	10.0000	10.4704
7 Acenaphthene	154	3.343	3.344	(1.006)	47803	10.0000	9.6130
9 Fluorene	166	3.647	3.649	(1.098)	60194	10.0000	9.6010
11 Phenanthrene	178	4.261	4.263	(1.004)	93111	10.0000	10.2168
12 Anthracene	178	4.293	4.295	(1.011)	91019	10.0000	10.3001
13 Carbazole	167	4.454	4.456	(1.049)	73717	10.0000	9.5178
15 Fluoranthene	202	5.111	5.113	(1.204)	90262	10.0000	10.0195
16 Pyrene	202	5.271	5.278	(0.845)	97774	10.0000	10.0669
17 Benzo(a)anthracene	228	6.227	6.235	(0.998)	96948	10.0000	9.9188
19 Chrysene	228	6.254	6.261	(1.003)	88211	10.0000	10.0543
20 Benzo(b)fluoranthene	252	7.050	7.052	(0.963)	86931	10.0000	10.0438
21 Benzo(k)fluoranthene	252	7.066	7.073	(0.965)	106676	10.0000	10.4026
22 Benzo(a)pyrene	252	7.274	7.282	(0.993)	88362	10.0000	9.9040
24 Indeno(1,2,3-cd)pyrene	276	8.028	8.035	(1.096)	84090	10.0000	10.4457(M)
25 Dibenzo(a,h)anthracene	278	8.033	8.045	(1.097)	76903	10.0000	9.6388
26 Benzo(g,h,i)perylene	276	8.209	8.222	(1.121)	79114	10.0000	9.7632

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15007.D

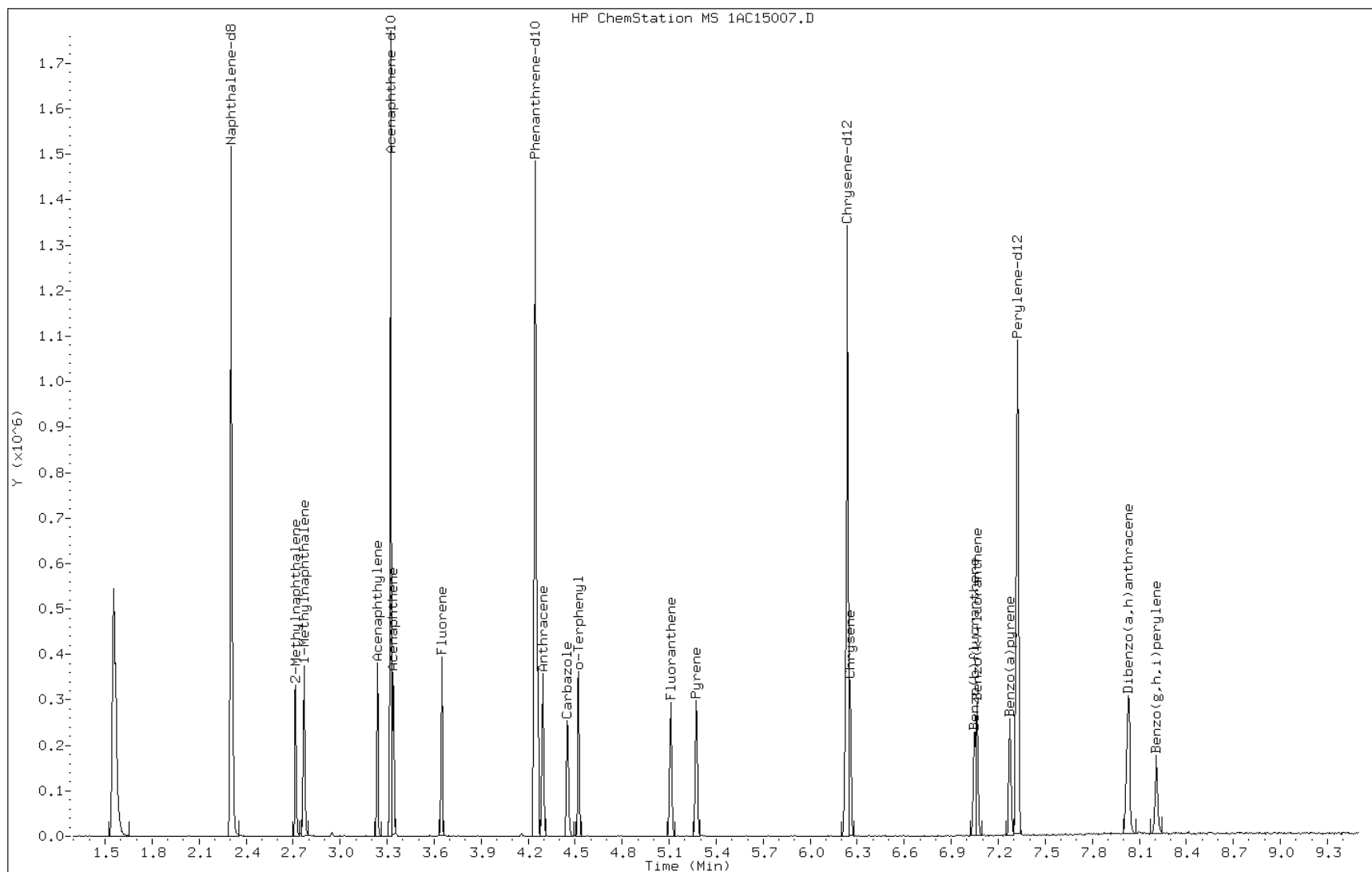
Date: 15-MAR-2013 13:54

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512361

Operator: SCC

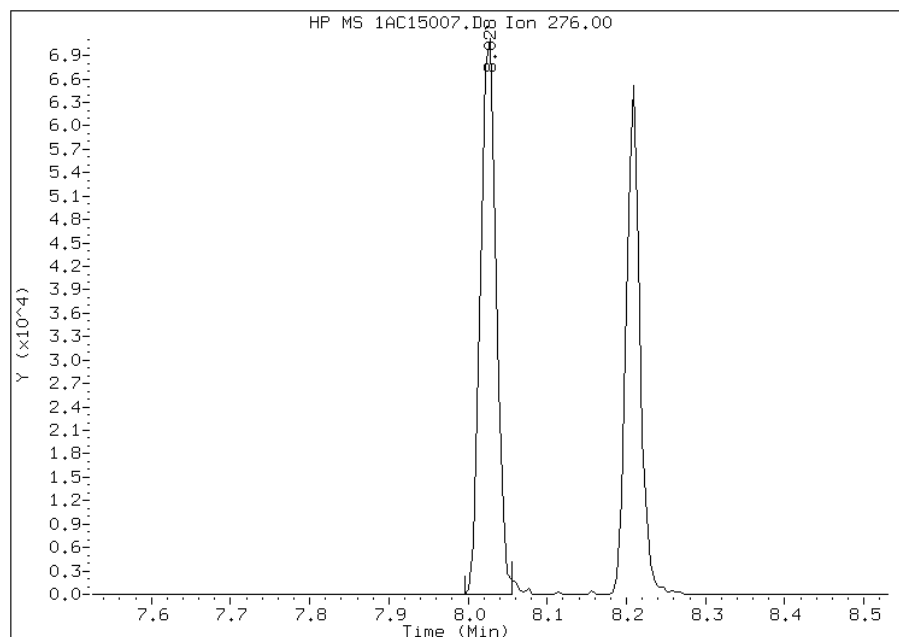


## Manual Integration Report

Data File: 1AC15007.D  
Inj. Date and Time: 15-MAR-2013 13:54  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

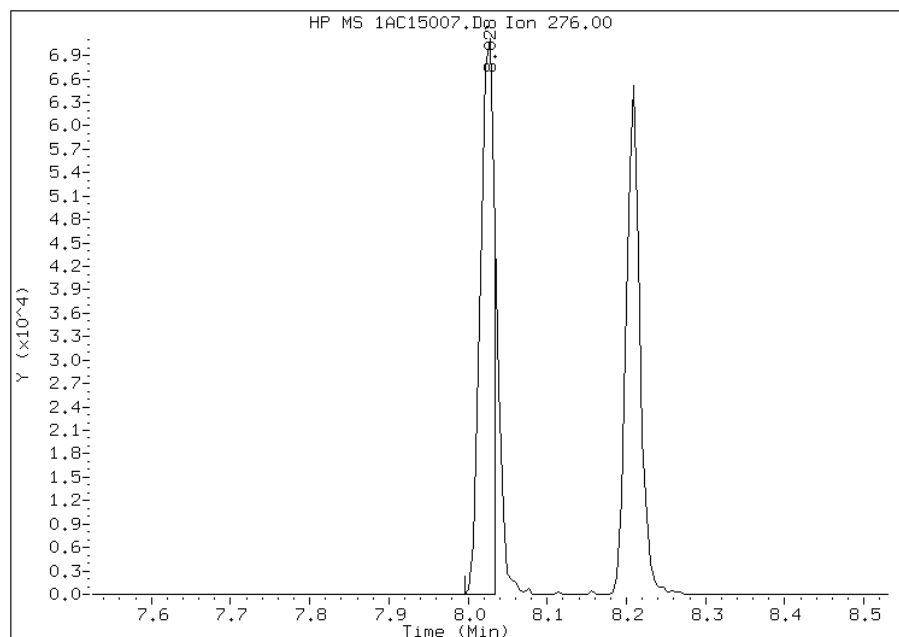
### Processing Integration Results

RT: 8.03  
Response: 97441  
Amount: 11  
Conc: 11



### Manual Integration Results

RT: 8.03  
Response: 84090  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:49  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 15-MAR-2013 14:10  
 Operator : SCC  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15008.D  
 Meth Date : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD  
 Cal Date : 15-MAR-2013 13:54 Cal File: 1AC15007.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	2.302	2.303	(1.000)	411292	40.0000	
* 6 Acenaphthene-d10	164	3.323	3.323	(1.000)	261514	40.0000	
* 10 Phenanthrene-d10	188	4.247	4.247	(1.000)	369627	40.0000	
\$ 14 o-Terphenyl	230	4.525	4.525	(1.065)	169501	30.0000	31.9993
* 18 Chrysene-d12	240	6.239	6.245	(1.000)	356785	40.0000	
* 23 Perylene-d12	264	7.329	7.330	(1.000)	391800	40.0000	
2 Naphthalene	128	2.313	2.313	(1.005)	303622	30.0000	31.9527
3 2-Methylnaphthalene	141	2.719	2.714	(1.181)	173551	30.0000	36.2562
4 1-Methylnaphthalene	142	2.772	2.773	(1.204)	180305	30.0000	32.9988
5 Acenaphthylene	152	3.237	3.238	(0.974)	319635	30.0000	33.9929
7 Acenaphthene	154	3.344	3.344	(1.006)	189235	30.0000	35.4807
9 Fluorene	166	3.648	3.649	(1.098)	227926	30.0000	33.8959
11 Phenanthrene	178	4.263	4.263	(1.004)	303905	30.0000	32.4404
12 Anthracene	178	4.295	4.295	(1.011)	298885	30.0000	32.9038
13 Carbazole	167	4.455	4.456	(1.049)	239621	30.0000	30.0972
15 Fluoranthene	202	5.112	5.113	(1.204)	301939	30.0000	32.6057
16 Pyrene	202	5.278	5.278	(0.846)	323353	30.0000	31.6087
17 Benzo(a)anthracene	228	6.229	6.235	(0.998)	307563	30.0000	29.8752
19 Chrysene	228	6.261	6.261	(1.003)	293362	30.0000	31.7461
20 Benzo(b)fluoranthene	252	7.051	7.052	(0.962)	285512	30.0000	32.0081
21 Benzo(k)fluoranthene	252	7.073	7.073	(0.965)	335436	30.0000	31.7393
22 Benzo(a)pyrene	252	7.281	7.282	(0.993)	284542	30.0000	30.9461
24 Indeno(1,2,3-cd)pyrene	276	8.040	8.035	(1.097)	263461	30.0000	31.7558(M)
25 Dibenzo(a,h)anthracene	278	8.050	8.045	(1.098)	261651	30.0000	31.8210
26 Benzo(g,h,i)perylene	276	8.221	8.222	(1.122)	245198	30.0000	29.3607

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15008.D

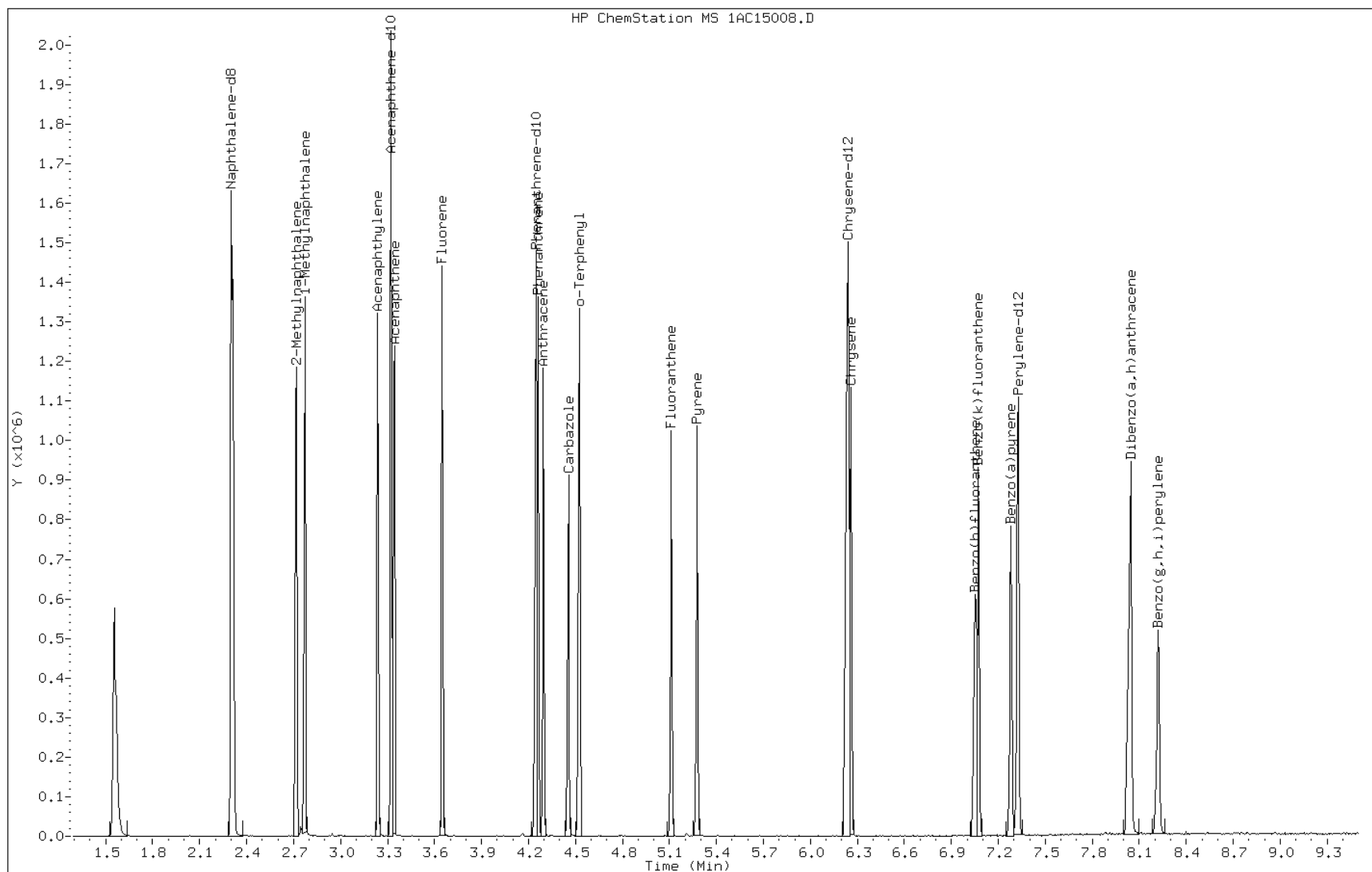
Date: 15-MAR-2013 14:10

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512373

Operator: SCC

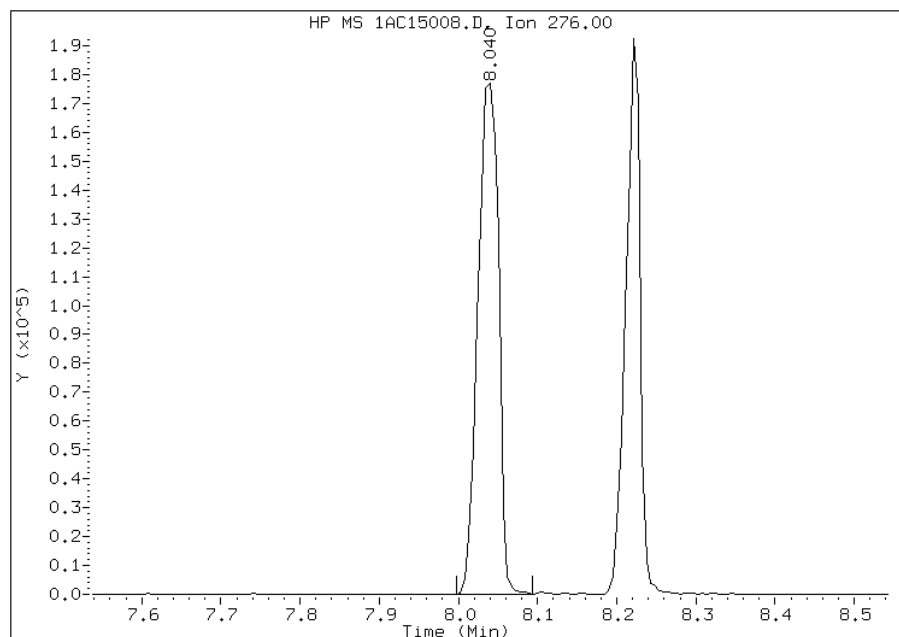


## Manual Integration Report

Data File: 1AC15008.D  
Inj. Date and Time: 15-MAR-2013 14:10  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

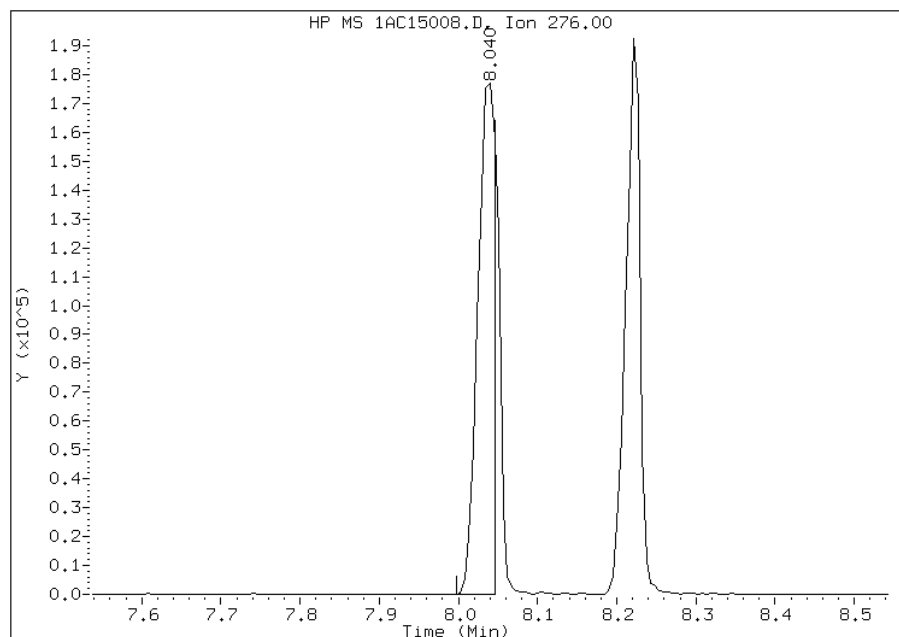
### Processing Integration Results

RT: 8.04  
Response: 316858  
Amount: 34  
Conc: 34



### Manual Integration Results

RT: 8.04  
Response: 263461  
Amount: 32  
Conc: 32



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:49  
Manual Integration Reason: Split Peak

## TestAmerica Laboratories

Semivolatile 8270C low level PAH

```
Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15009.D
Lab Smp Id: IC-1512374
Inj Date  : 15-MAR-2013 14:25
Operator   : SCC                               Inst ID: BSMA5973.i
Smp Info  : IC-1512374
Misc Info :
Comment   :
Method     : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date  : 15-Mar-2013 14:50 BSMA5973.i Quant Type: ISTD
Cal Date   : 15-MAR-2013 14:10               Cal File: 1AC15008.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
```

						AMOUNTS		
		QUANT	SIG				CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.303	2.303	(1.000)	416711	40.0000	
*	6 Acenaphthene-d10	164	3.324	3.323	(1.000)	242716	40.0000	
*	10 Phenanthrene-d10	188	4.248	4.247	(1.000)	331701	40.0000	
\$	14 o-Terphenyl	230	4.526	4.525	(1.065)	294944	50.0000	62.0476(A)
*	18 Chrysene-d12	240	6.246	6.245	(1.000)	346445	40.0000	
*	23 Perylene-d12	264	7.330	7.330	(1.000)	375920	40.0000	
	2 Naphthalene	128	2.314	2.313	(1.005)	536733	50.0000	55.7504(A)
	3 2-Methylnaphthalene	141	2.720	2.714	(1.181)	291739	50.0000	60.1540(A)
	4 1-Methylnaphthalene	142	2.773	2.773	(1.204)	314615	50.0000	56.8310(A)
	5 Acenaphthylene	152	3.244	3.238	(0.976)	568020	50.0000	65.0871(A)
	7 Acenaphthene	154	3.345	3.344	(1.006)	337349	50.0000	68.1501(A)
	9 Fluorene	166	3.655	3.649	(1.100)	425998	50.0000	68.2586(A)
	11 Phenanthrene	178	4.264	4.263	(1.004)	493056	50.0000	58.6491(A)
	12 Anthracene	178	4.301	4.295	(1.013)	493502	50.0000	60.5408(A)
	13 Carbazole	167	4.462	4.456	(1.050)	422232	50.0000	59.0976(A)
	15 Fluoranthene	202	5.113	5.113	(1.204)	513840	50.0000	61.8329(A)
	16 Pyrene	202	5.279	5.278	(0.845)	535158	50.0000	53.8747(A)
	17 Benzo(a)anthracene	228	6.235	6.235	(0.998)	502221	50.0000	50.2394(A)
	19 Chrysene	228	6.267	6.261	(1.003)	472426	50.0000	52.6494(A)
	20 Benzo(b)fluoranthene	252	7.058	7.052	(0.963)	523197	50.0000	61.1322(A)
	21 Benzo(k)fluoranthene	252	7.085	7.073	(0.966)	554548	50.0000	54.6885(A)
	22 Benzo(a)pyrene	252	7.288	7.282	(0.994)	488657	50.0000	55.3902(A)
	24 Indeno(1,2,3-cd)pyrene	276	8.051	8.035	(1.098)	499702	50.0000	62.7751(AM)
	25 Dibenzo(a,h)anthracene	278	8.057	8.045	(1.099)	486347	50.0000	61.6464(A)
	26 Benzo(g,h,i)perylene	276	8.238	8.222	(1.124)	434983	50.0000	54.2864(A)

## OC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.

Data File: 1AC15009.D

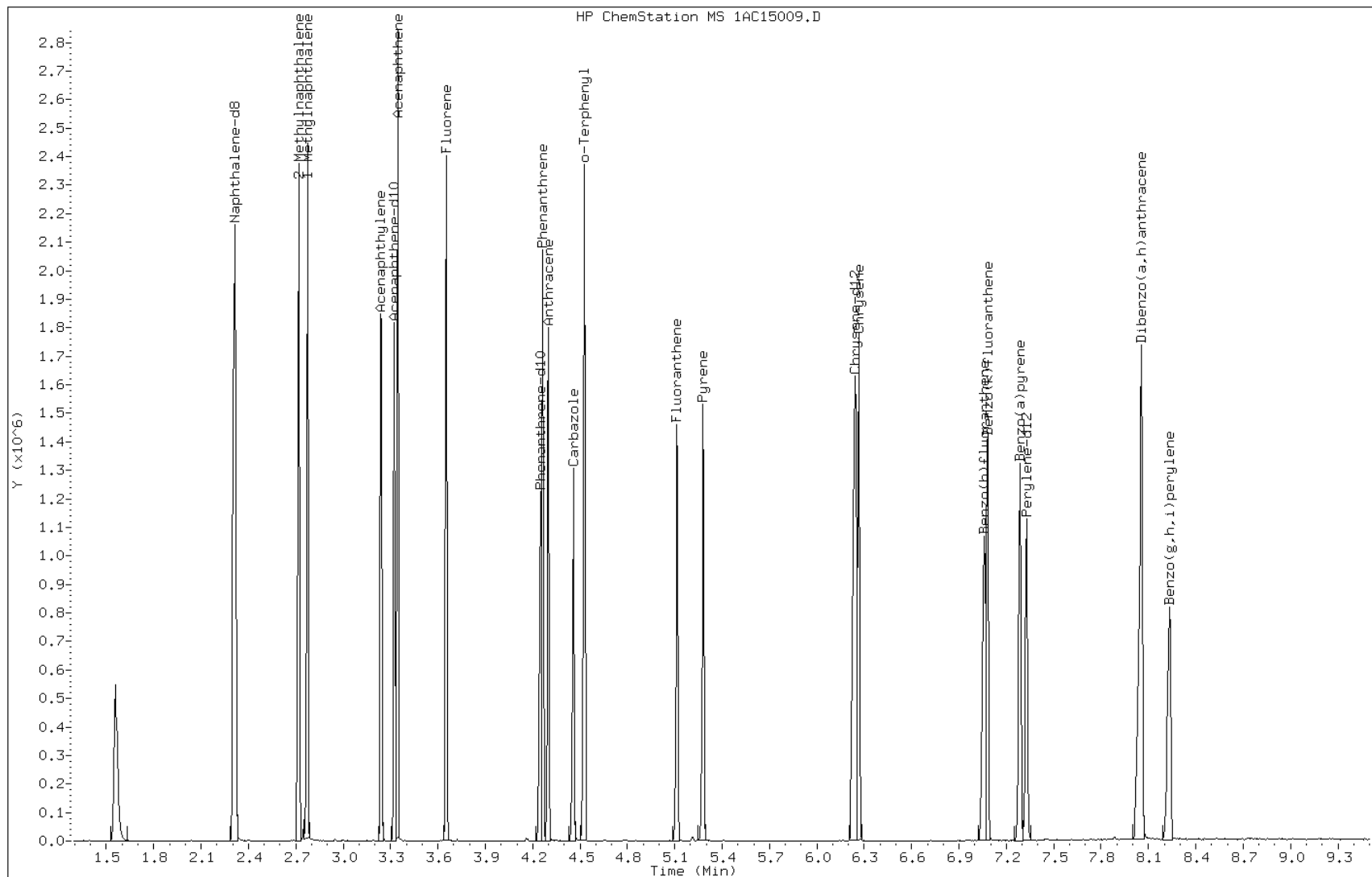
Date: 15-MAR-2013 14:25

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC



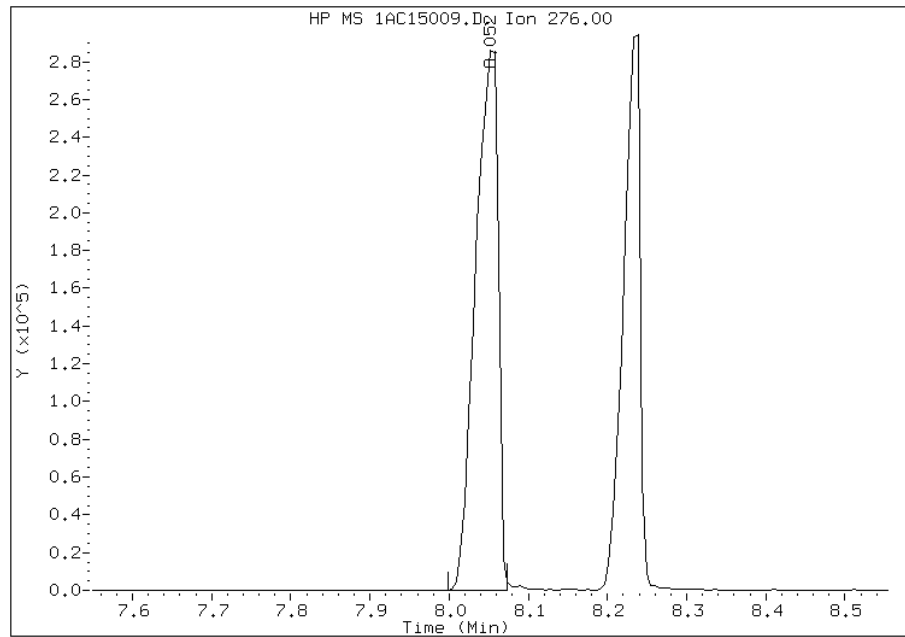


# Manual Integration Report

Data File: 1AC15009.D  
Inj. Date and Time: 15-MAR-2013 14:25  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

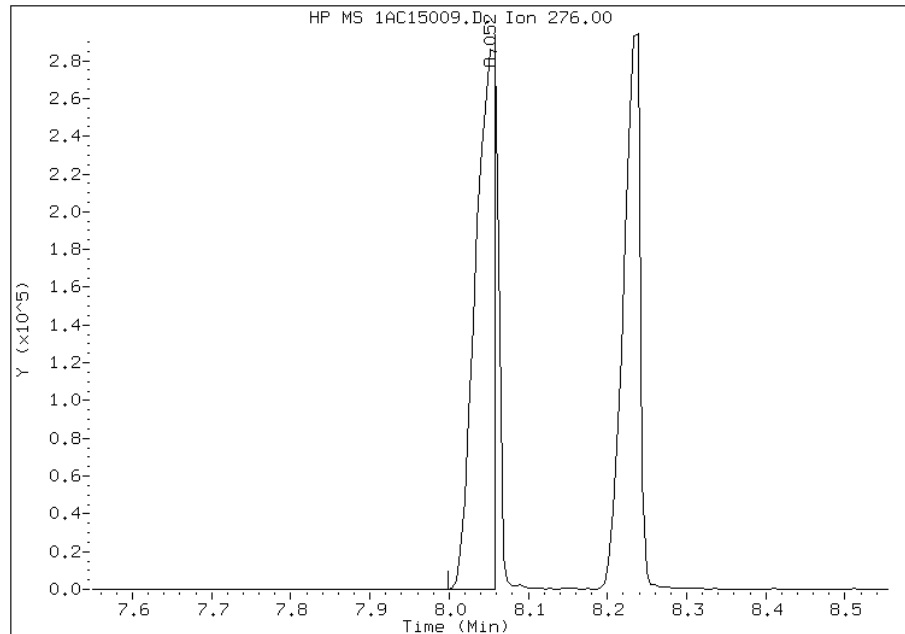
## Processing Integration Results

RT: 8.05  
Response: 563658  
Amount: 61  
Conc: 61



## Manual Integration Results

RT: 8.05  
Response: 499702  
Amount: 63  
Conc: 63



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 14:50  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134776

SDG No.: 68088527-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134776

SDG No.: 68088527-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2		15.0			
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7		15.0			
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5		15.0			
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3		15.0			
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9		15.0			
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134776

SDG No.: 68088527-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	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.: 680-88527-2 Analy Batch No.: 134776

SDG No.: 68088527-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D  
Lab Smp Id: IC-1512358  
Inj Date : 22-FEB-2013 11:57  
Operator : SCC  
Smp Info : IC-1512358  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
Als bottle: 3 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE  
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	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

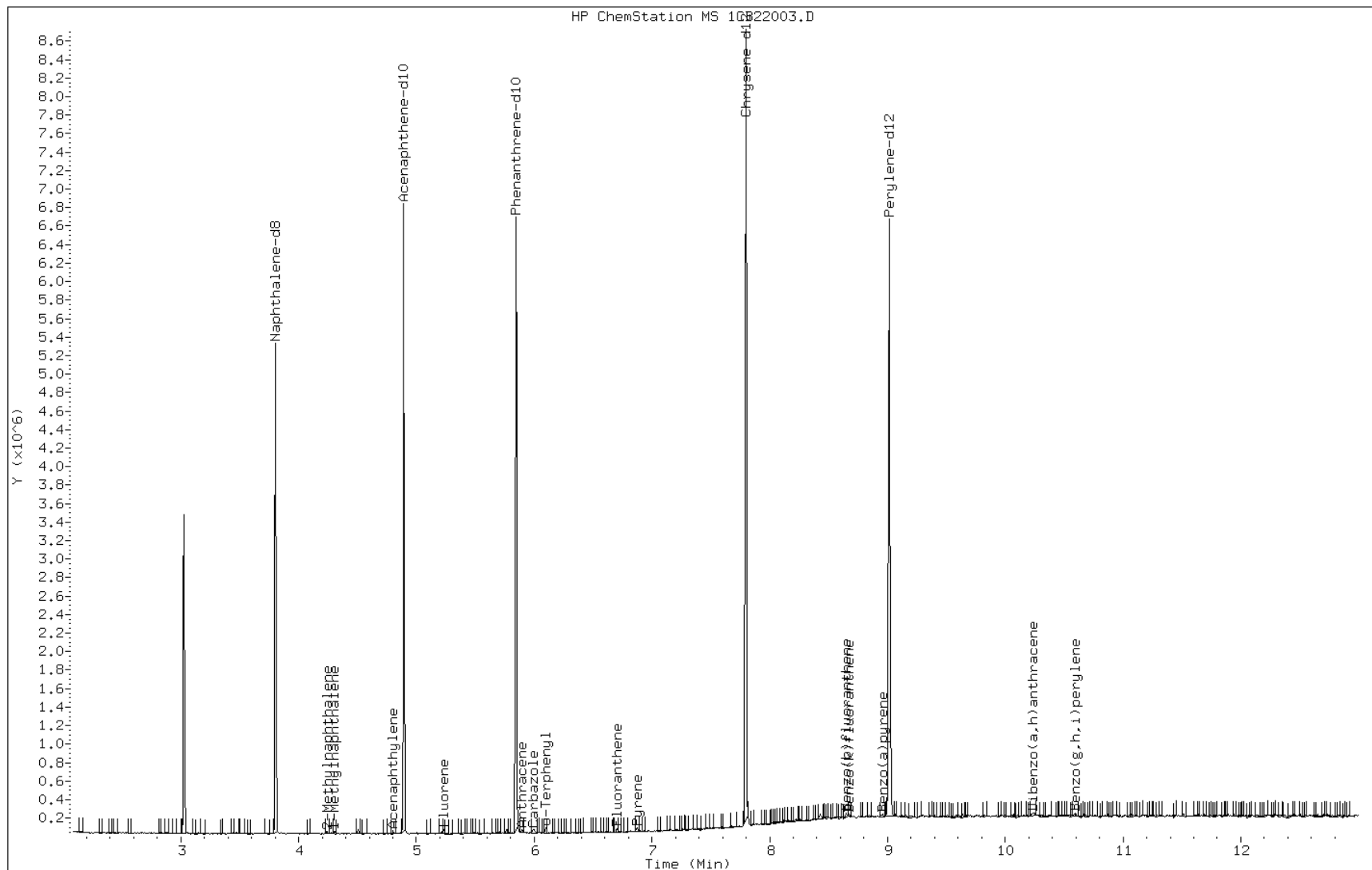
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

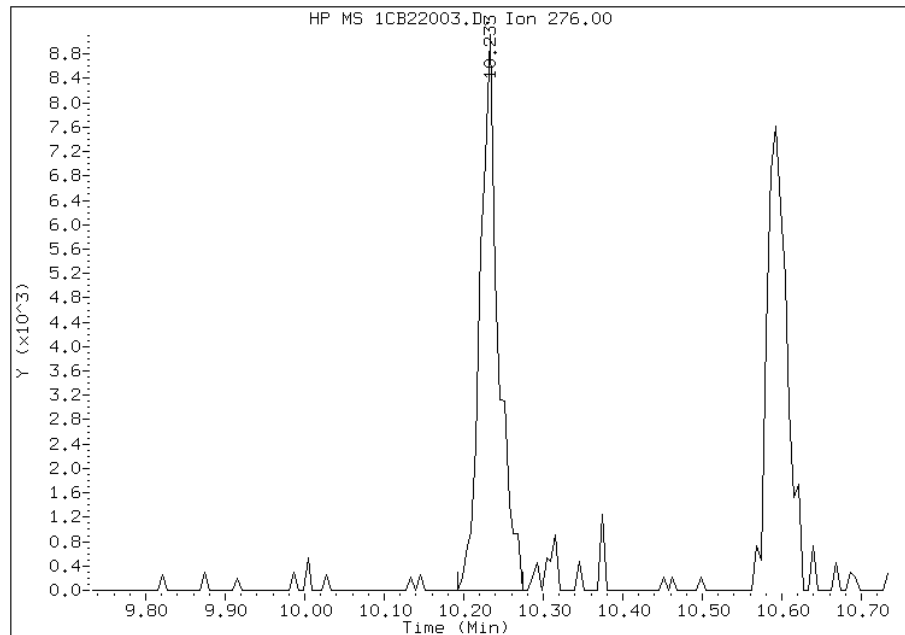


## Manual Integration Report

Data File: 1CB22003.D  
Inj. Date and Time: 22-FEB-2013 11:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

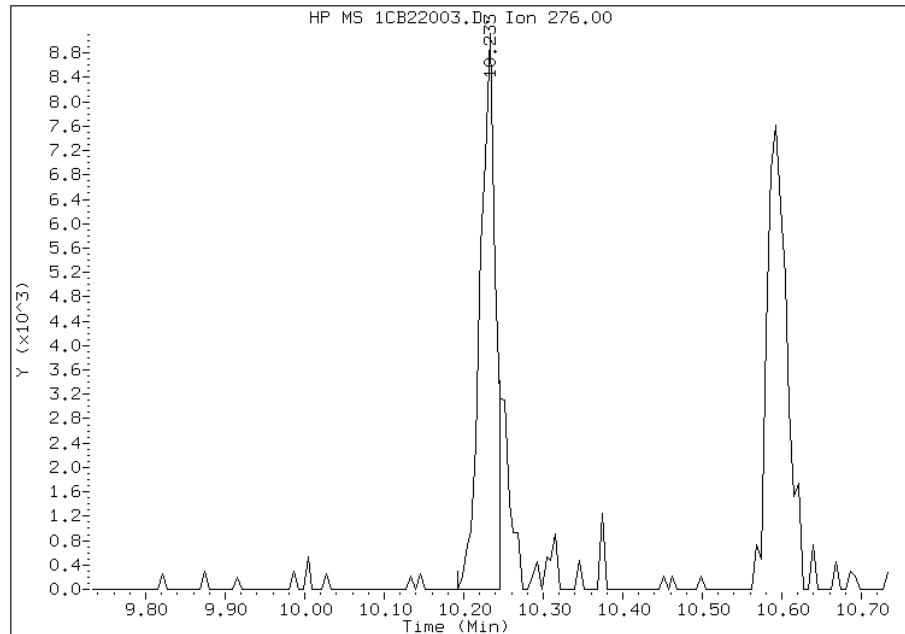
### Processing Integration Results

RT: 10.23  
Response: 14380  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 10.23  
Response: 12119  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:13  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:16  
 Operator : SCC  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\A-BFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

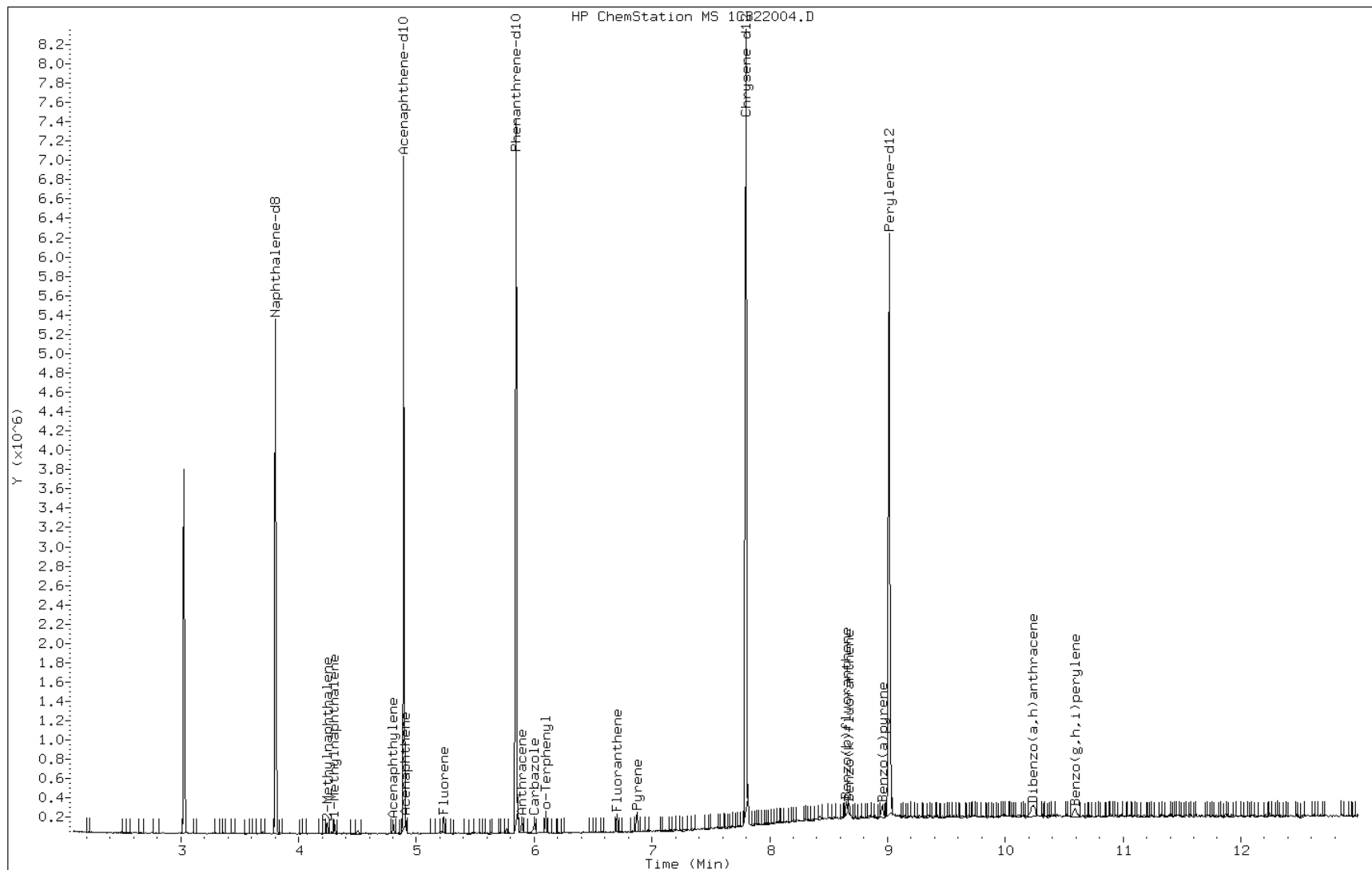
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

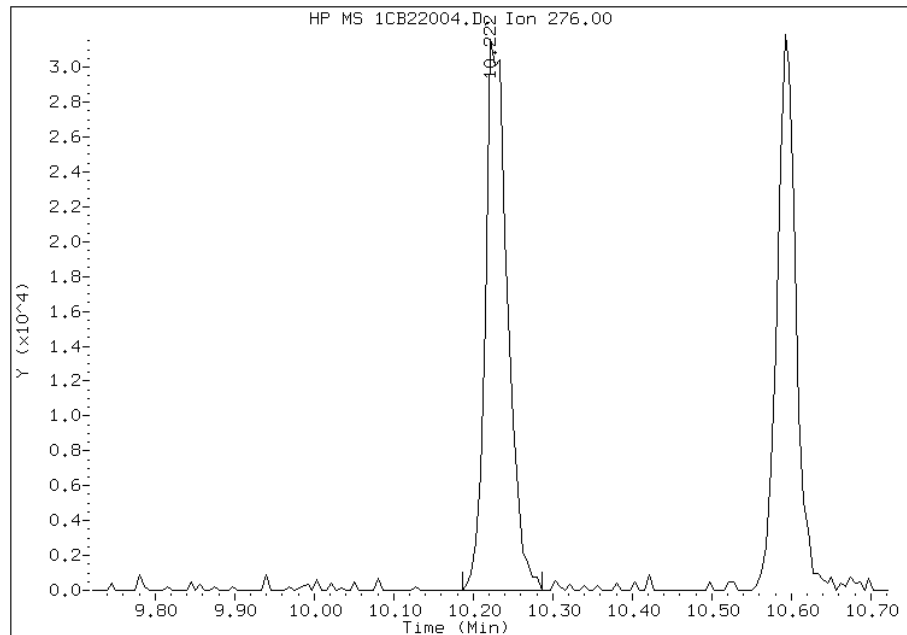


## Manual Integration Report

Data File: 1CB22004.D  
Inj. Date and Time: 22-FEB-2013 12:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

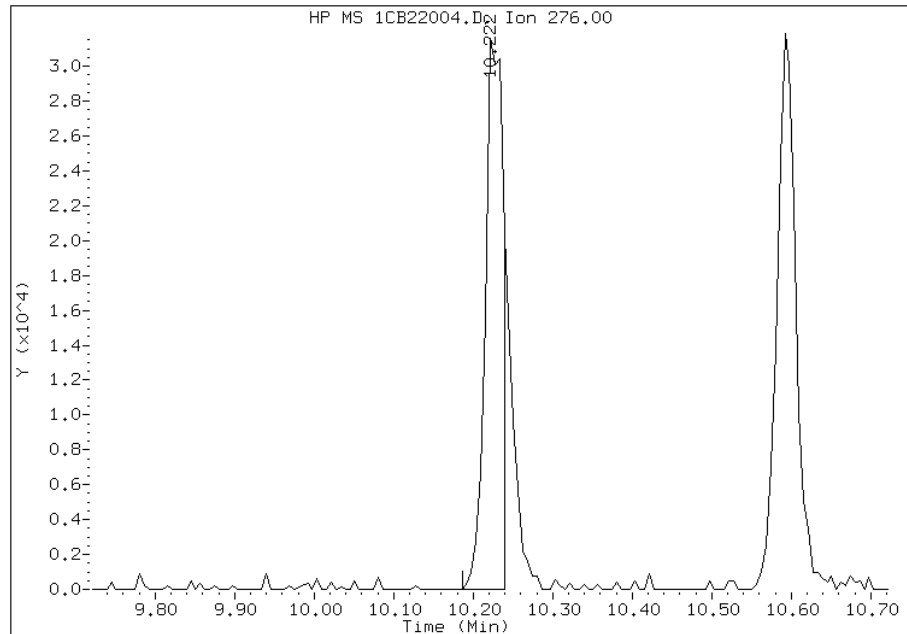
### Processing Integration Results

RT: 10.22  
Response: 61246  
Amount: 1  
Conc: 1



### Manual Integration Results

RT: 10.22  
Response: 48940  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 22-FEB-2013 12:34  
 Operator : SCC  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

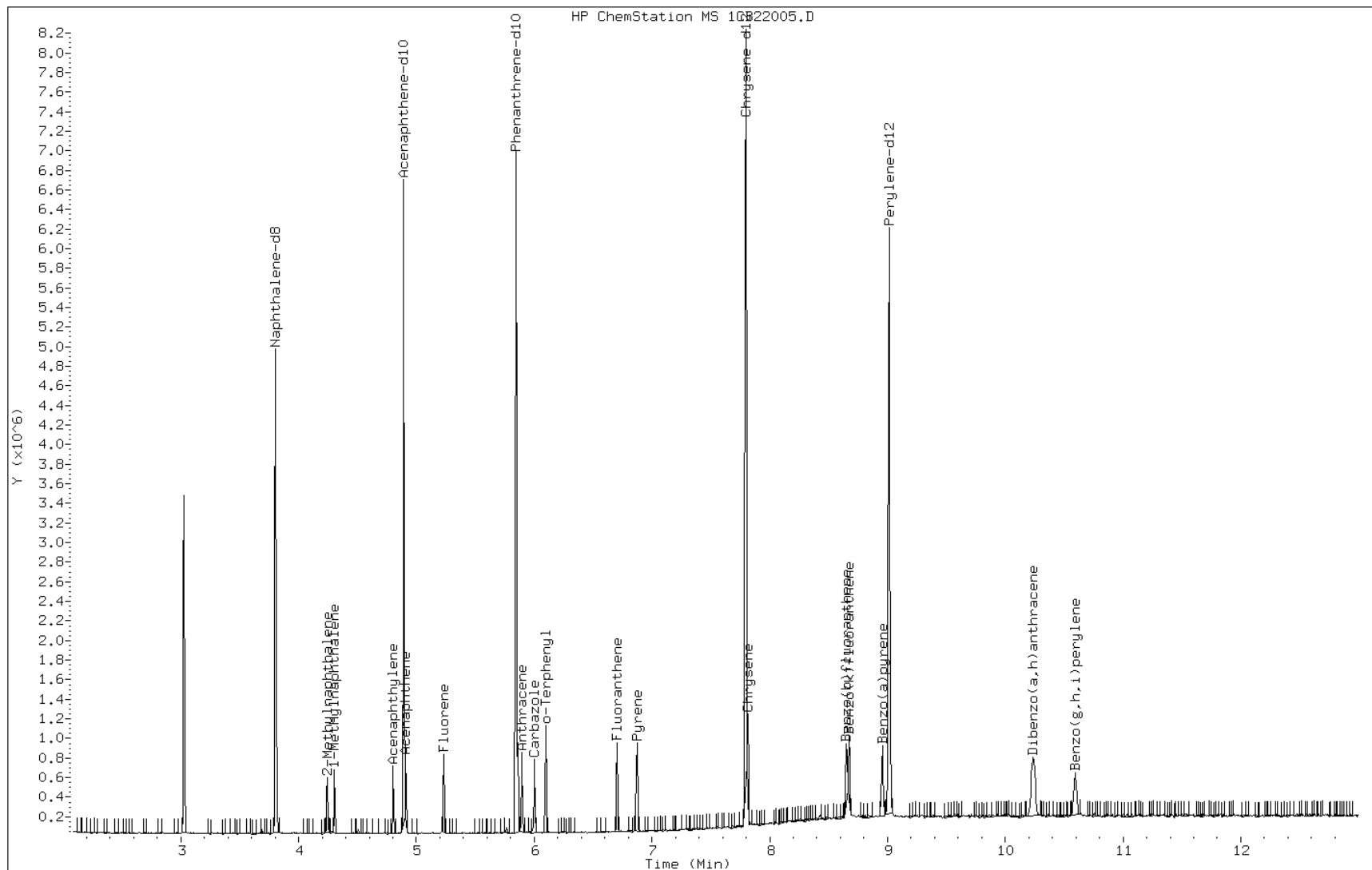
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

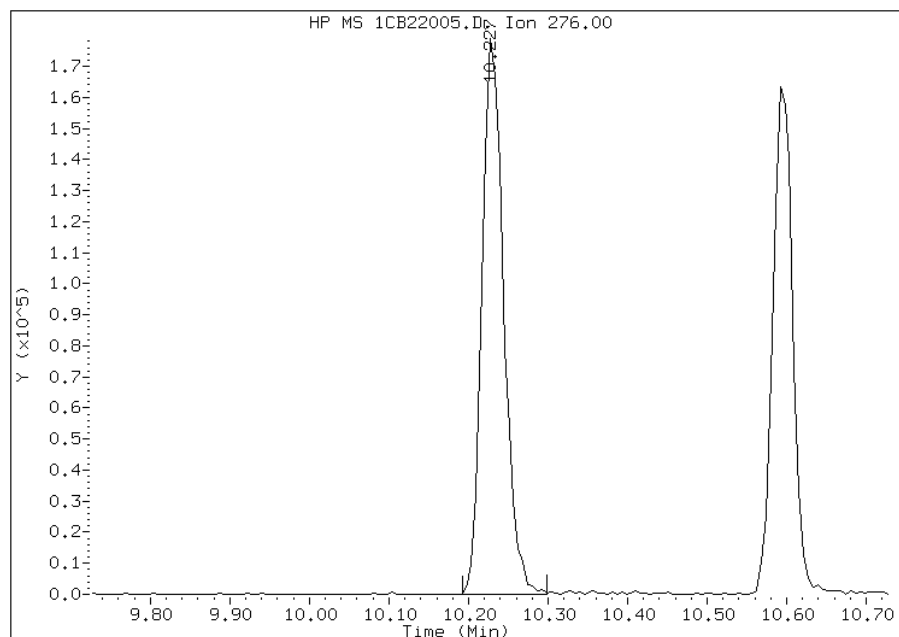


## Manual Integration Report

Data File: 1CB22005.D  
Inj. Date and Time: 22-FEB-2013 12:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

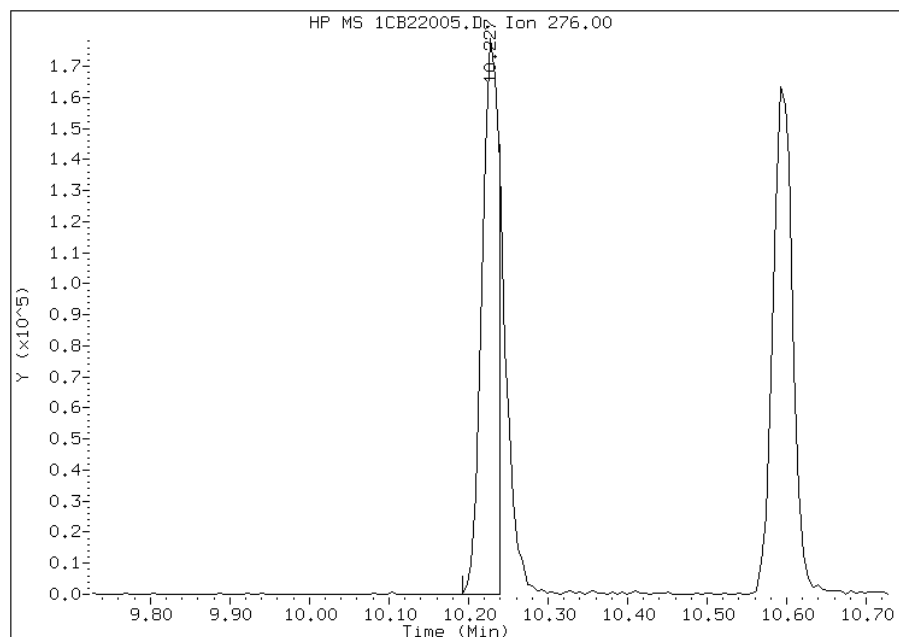
### Processing Integration Results

RT: 10.23  
Response: 336913  
Amount: 6  
Conc: 6



### Manual Integration Results

RT: 10.23  
Response: 267436  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 22-FEB-2013 12:53  
 Operator : SCC  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

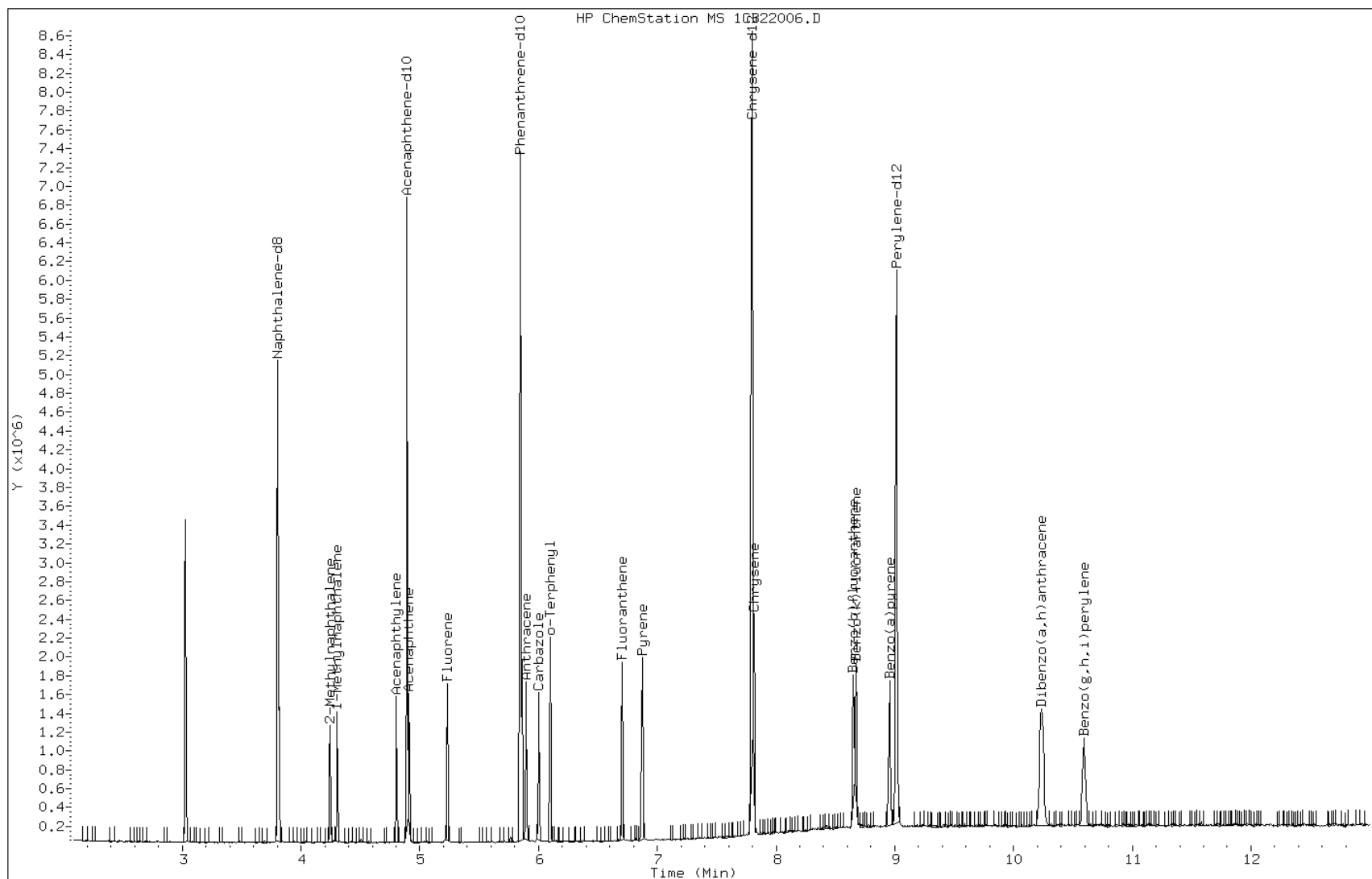
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC



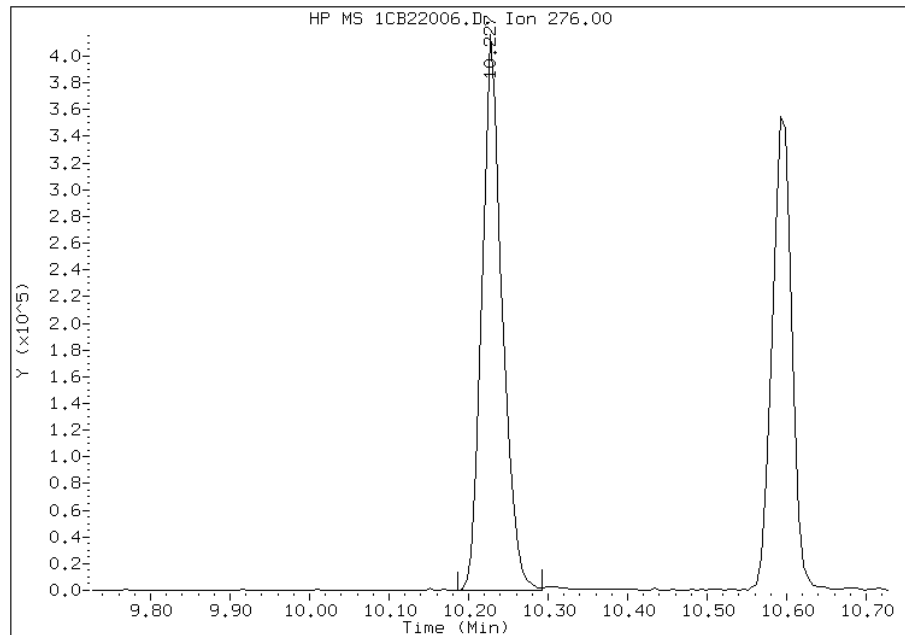


# Manual Integration Report

Data File: 1CB22006.D  
Inj. Date and Time: 22-FEB-2013 12:53  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

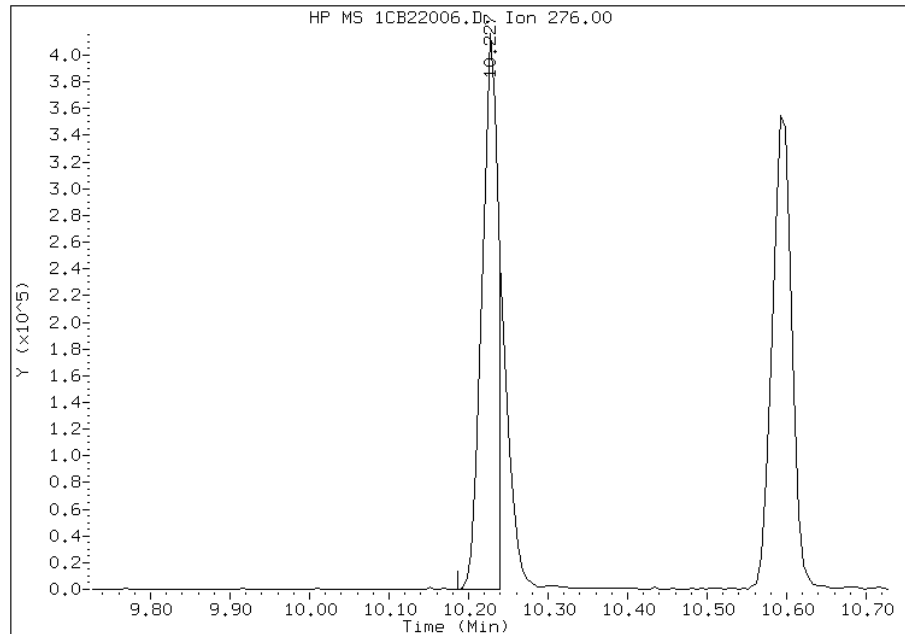
## Processing Integration Results

RT: 10.23  
Response: 727358  
Amount: 13  
Conc: 13



## Manual Integration Results

RT: 10.23  
Response: 582935  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 22-FEB-2013 13:11  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D  
 Als bottle: 7 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

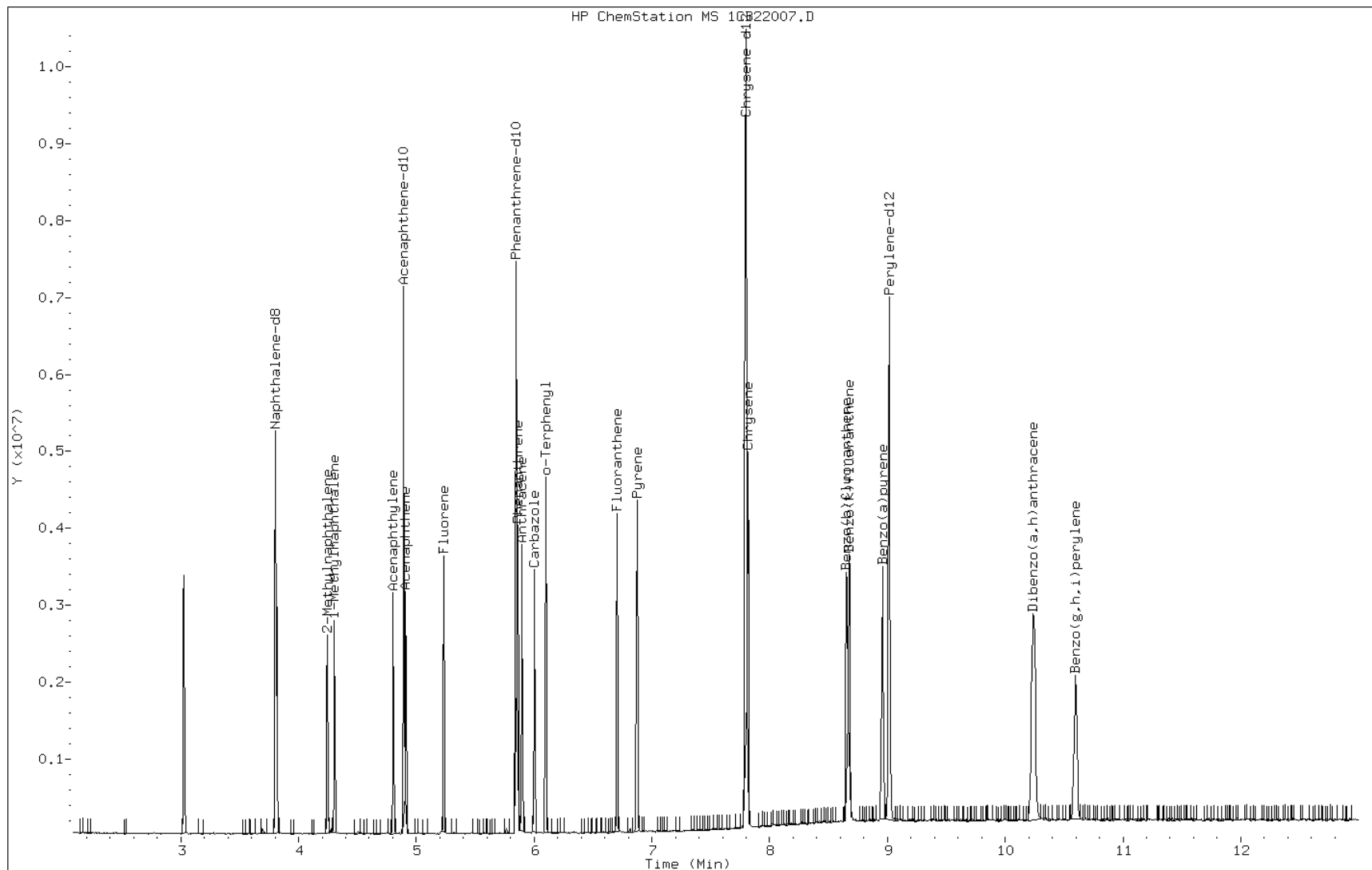
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

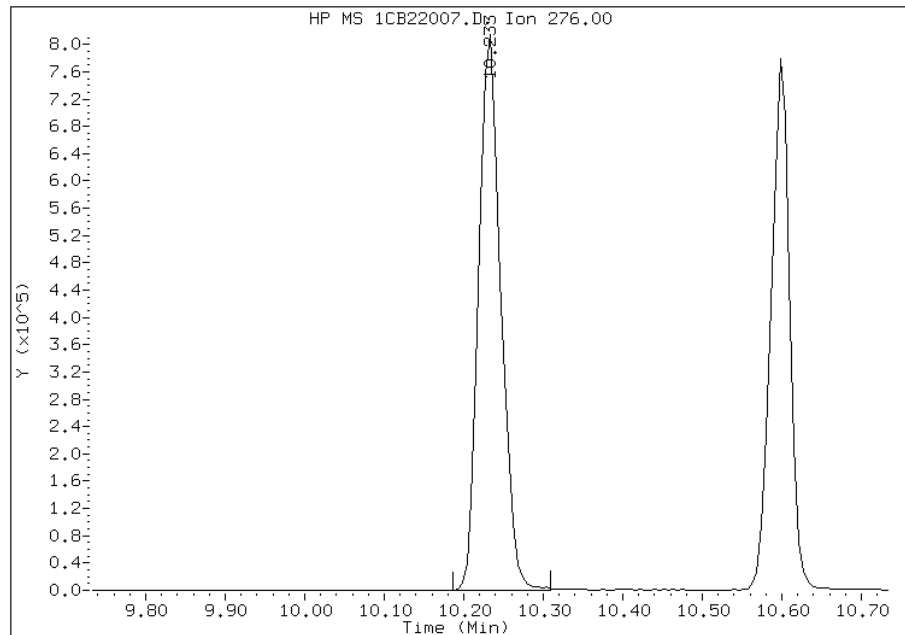


## Manual Integration Report

Data File: 1CB22007.D  
Inj. Date and Time: 22-FEB-2013 13:11  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

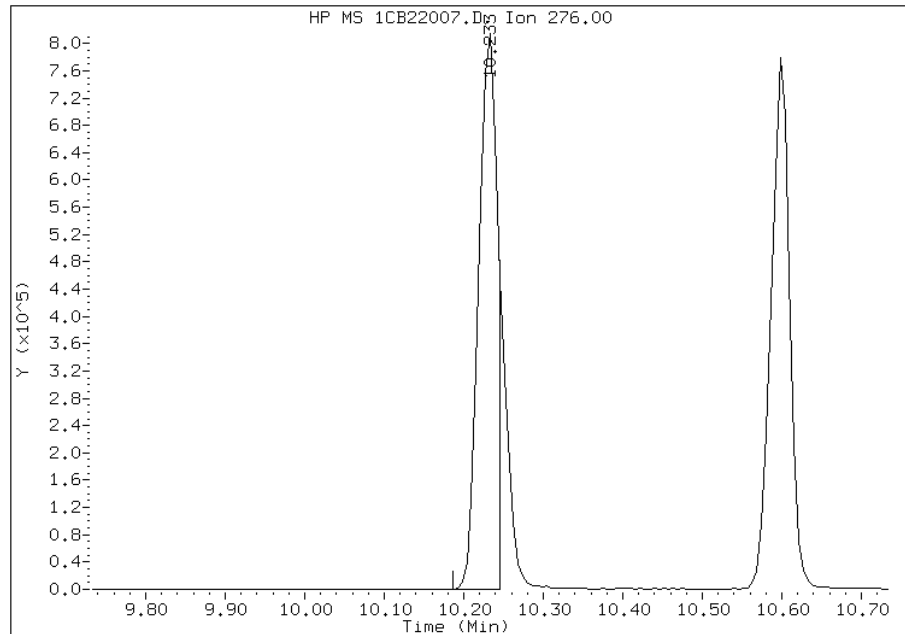
### Processing Integration Results

RT: 10.23  
Response: 1569498  
Amount: 25  
Conc: 25



### Manual Integration Results

RT: 10.23  
Response: 1327322  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:11  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D  
Lab Smp Id: IC-1512373  
Inj Date : 22-FEB-2013 13:29  
Operator : SCC  
Smp Info : IC-1512373  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D  
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D  
Als bottle: 8 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.14  
Processing Host: TAM1000

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1864829	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152	4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154	4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166	5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178	5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178	5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167	6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202	6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202	6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228	7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276	10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

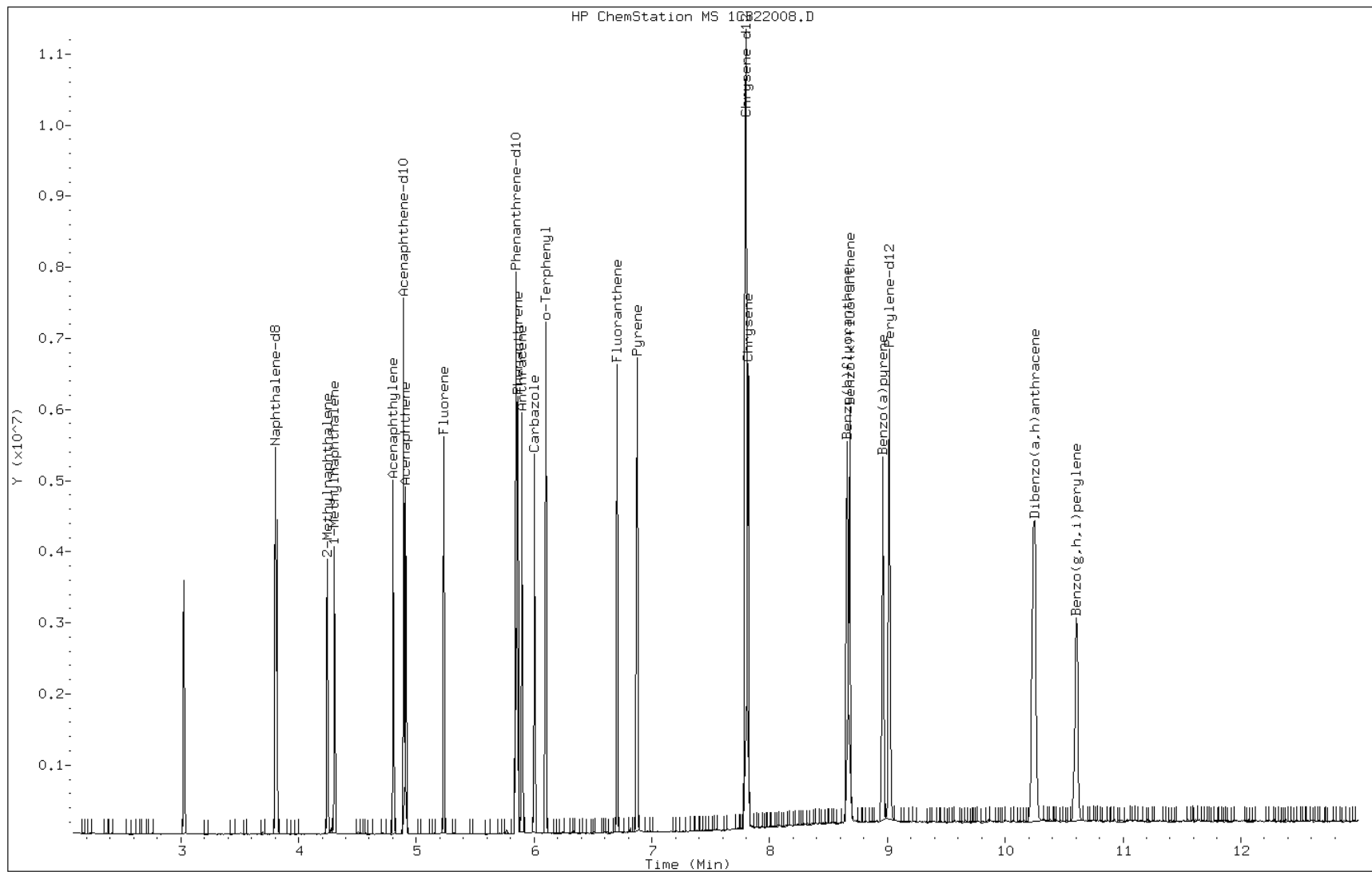
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

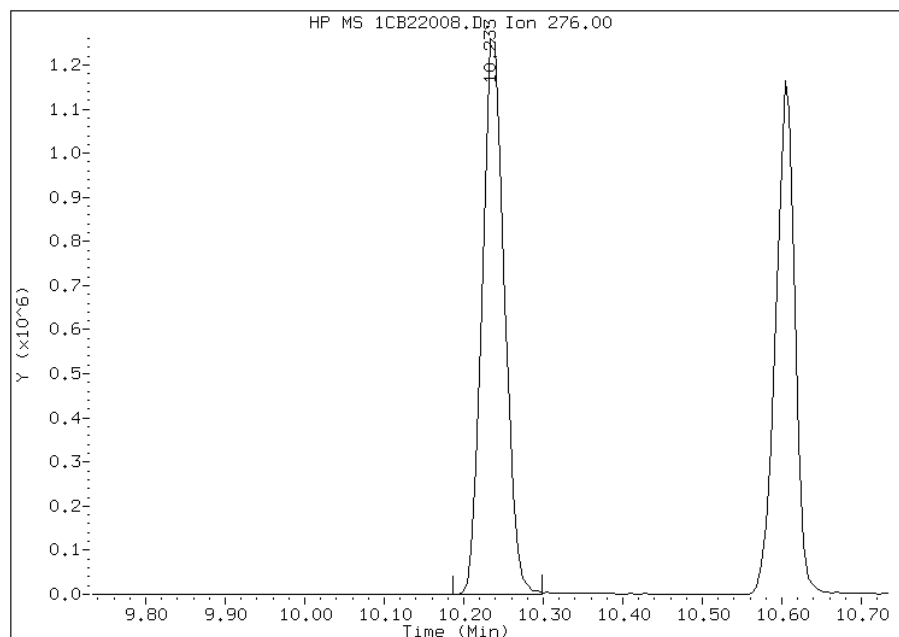


## Manual Integration Report

Data File: 1CB22008.D  
Inj. Date and Time: 22-FEB-2013 13:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

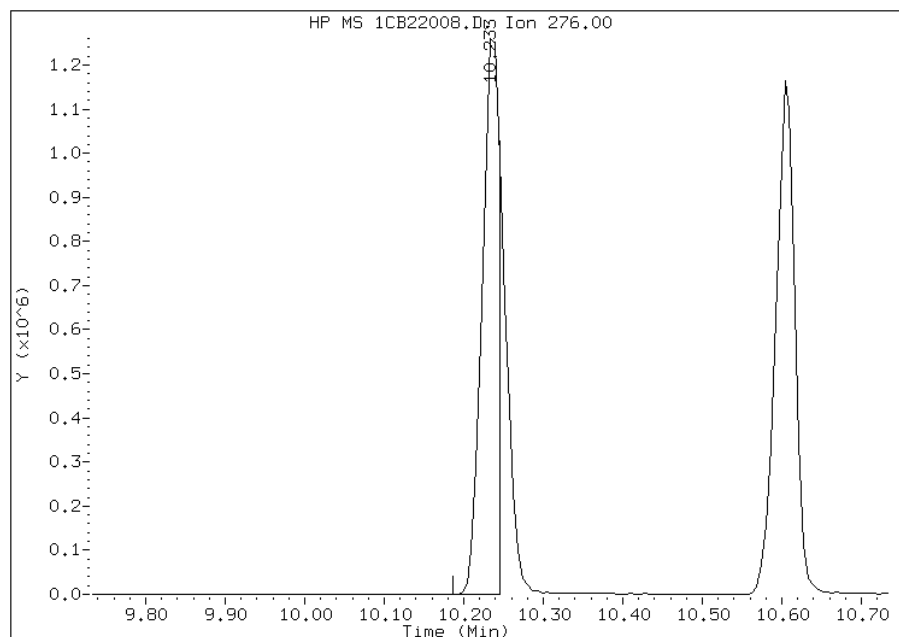
### Processing Integration Results

RT: 10.23  
Response: 2435528  
Amount: 36  
Conc: 36



### Manual Integration Results

RT: 10.23  
Response: 1907725  
Amount: 29  
Conc: 29



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D  
Lab Smp Id: IC-1512374  
Inj Date : 22-FEB-2013 13:48  
Operator : SCC  
Smp Info : IC-1512374  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D  
Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D  
Als bottle: 9 Calibration Sample, Level: 7  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.14  
Processing Host: TAM1000

						AMOUNTS	
		QUANT				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000	
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)

QC Flag Legend

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



Data File: 1CB22009.D

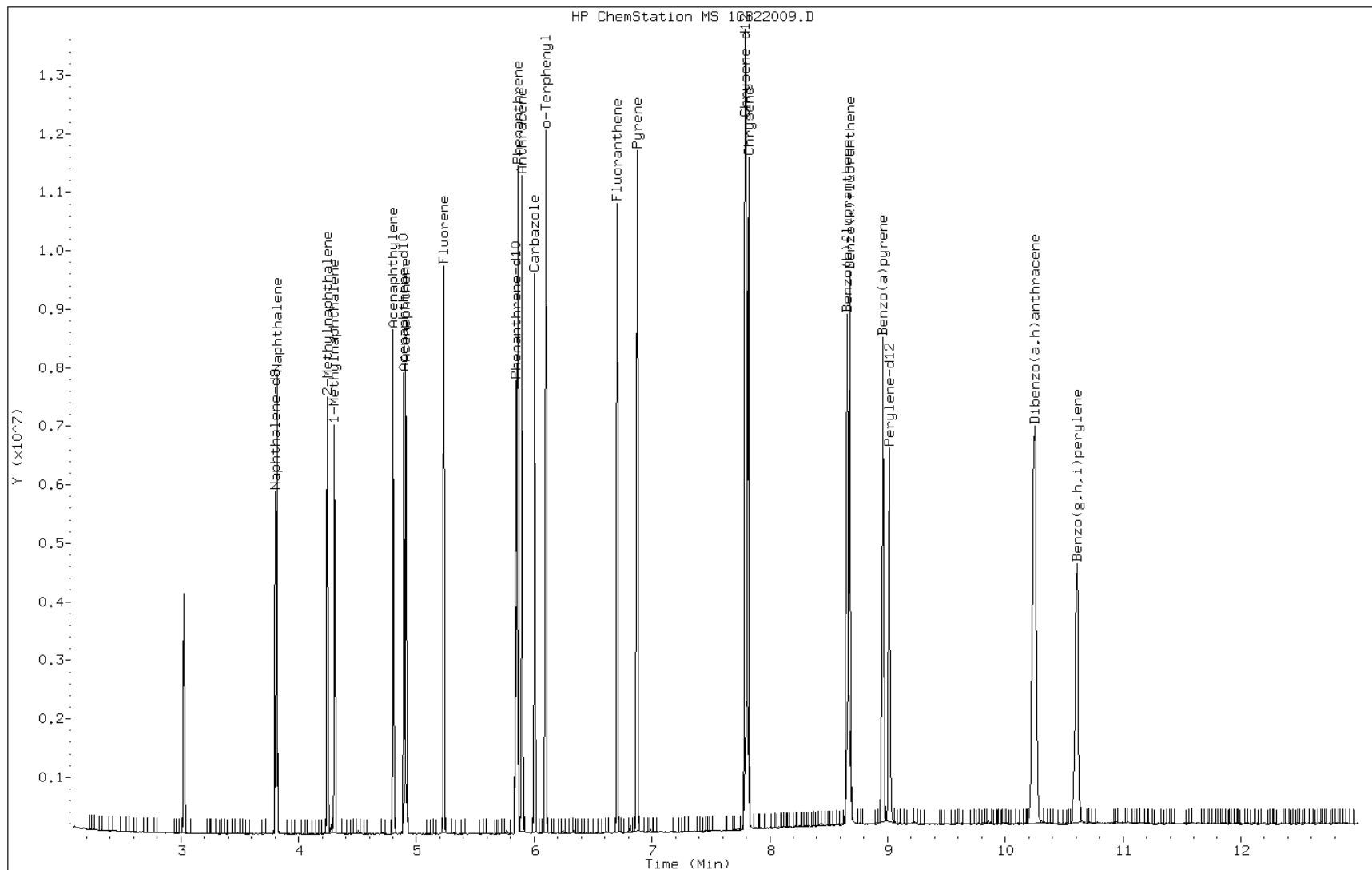
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

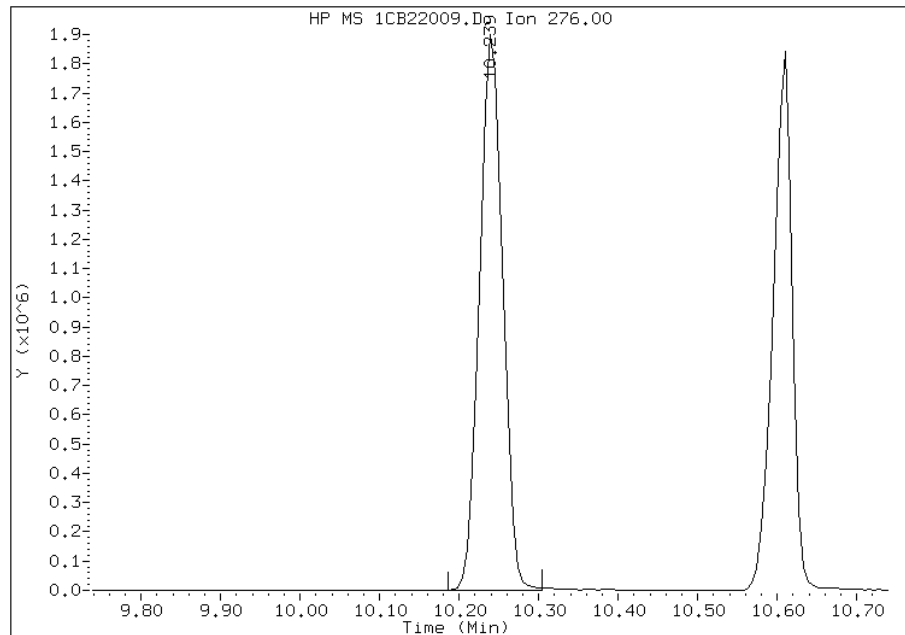


## Manual Integration Report

Data File: 1CB22009.D  
Inj. Date and Time: 22-FEB-2013 13:48  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

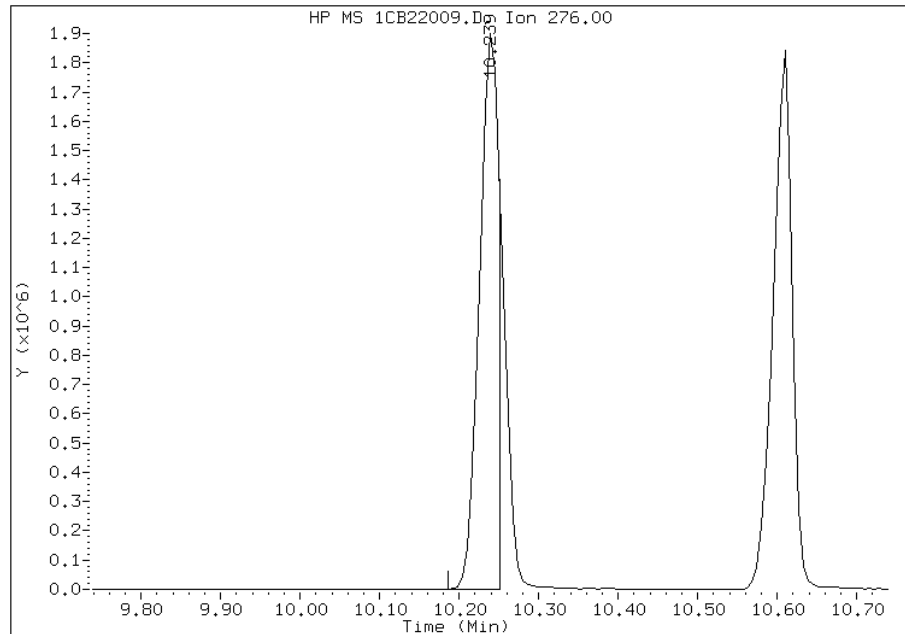
### Processing Integration Results

RT: 10.24  
Response: 3825990  
Amount: 51  
Conc: 51



### Manual Integration Results

RT: 10.24  
Response: 3187834  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134781

SDG No.: 68088527-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8		15.0			
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1		15.0			
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7		15.0			
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8		15.0			
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5		15.0			
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5		15.0			
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0		15.0			
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3		15.0			
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5		15.0			
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0		15.0			
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2		15.0			
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000				0.9999		0.9900
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0		15.0			
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134781  
SDG No.: 68088527-2  
Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N  
Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88527-2 Analy Batch No.: 134781

SDG No.: 68088527-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	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.: 680-88527-2 Analy Batch No.: 134781

SDG No.: 68088527-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD  
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 22-FEB-2013 12:13  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 3 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

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

Data File: 1DB22003.D

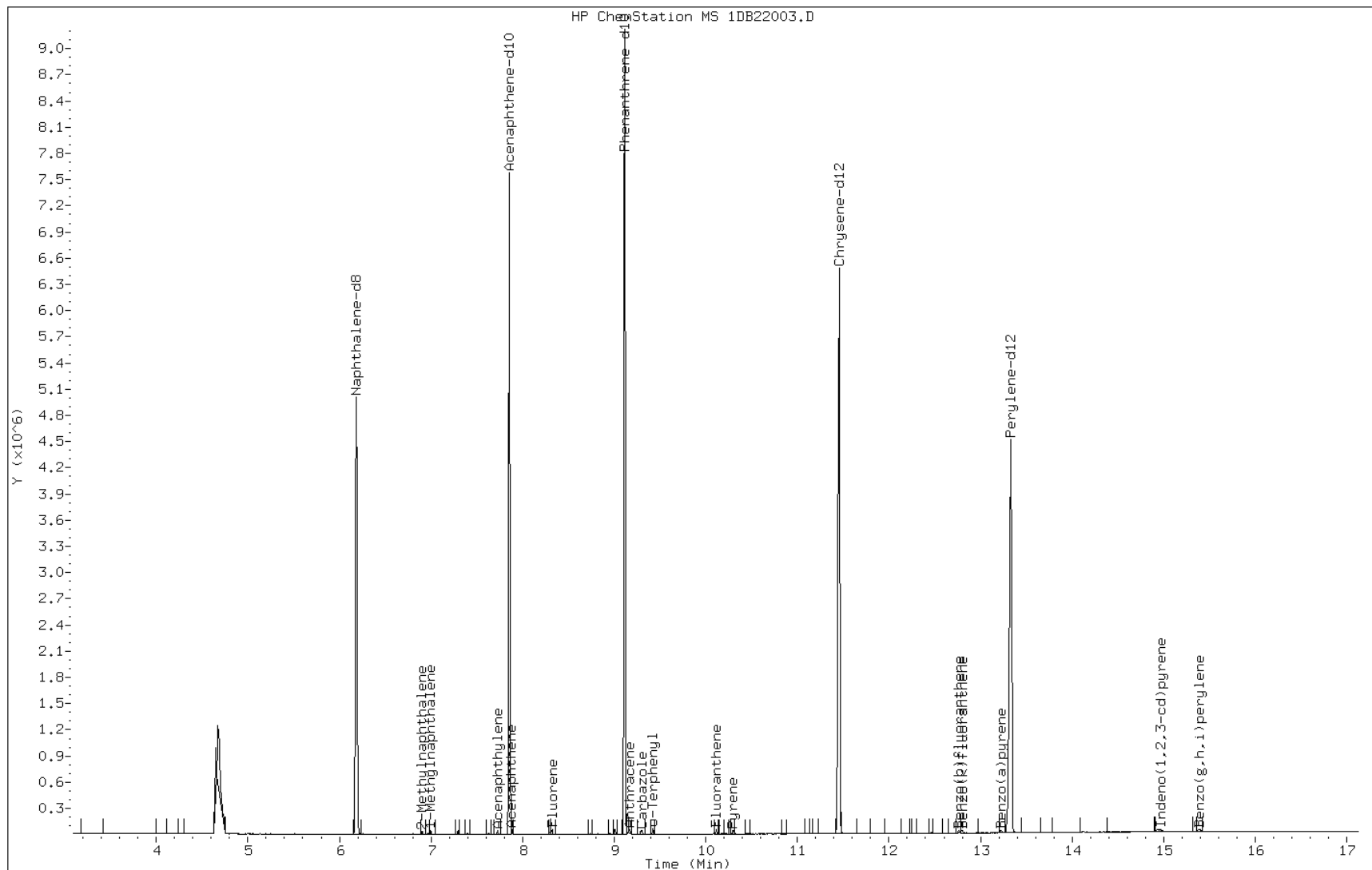
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC



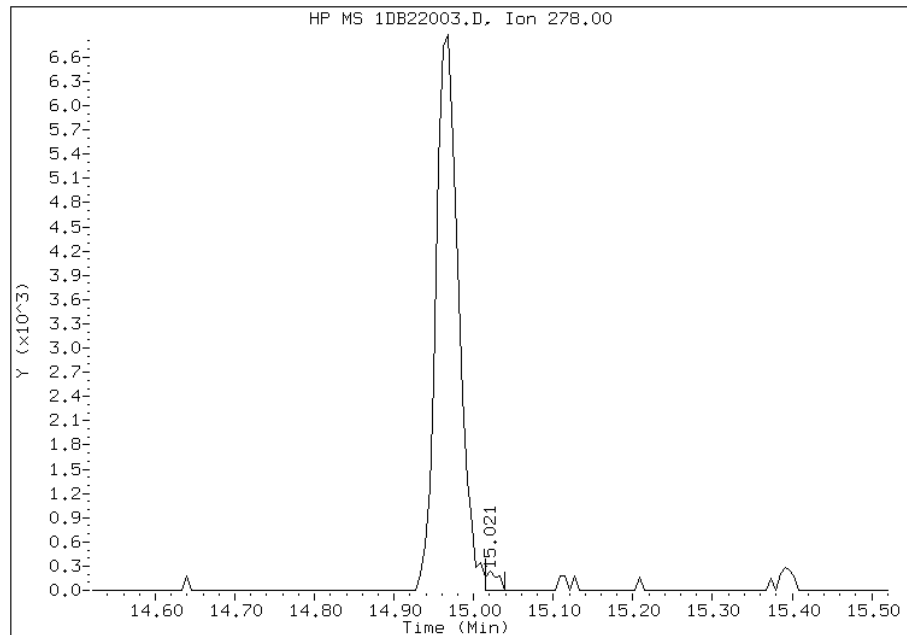


## Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 02/22/2013

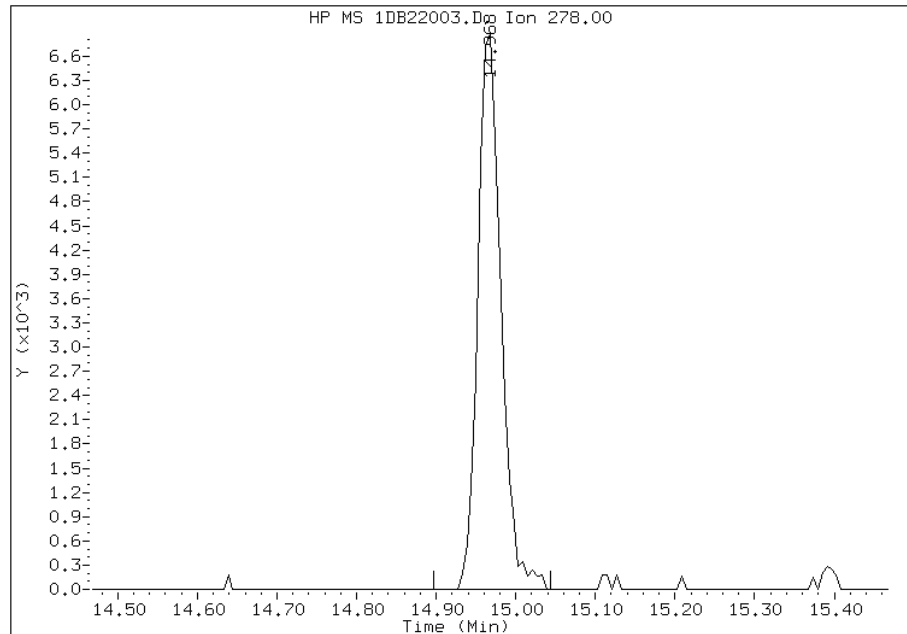
### Processing Integration Results

RT: 15.02  
Response: 262  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 14.97  
Response: 13824  
Amount: 0  
Conc: 0



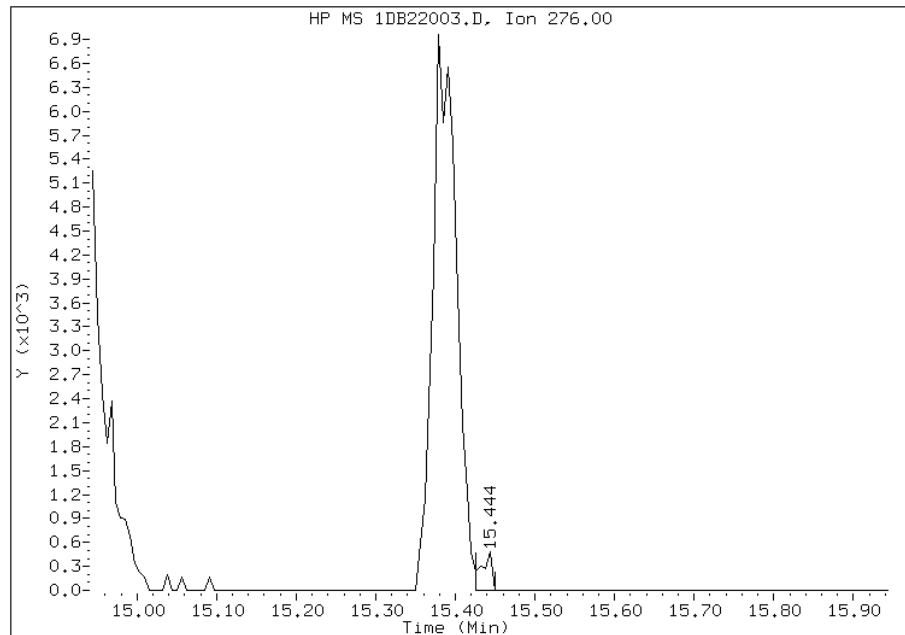
Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 02/22/2013

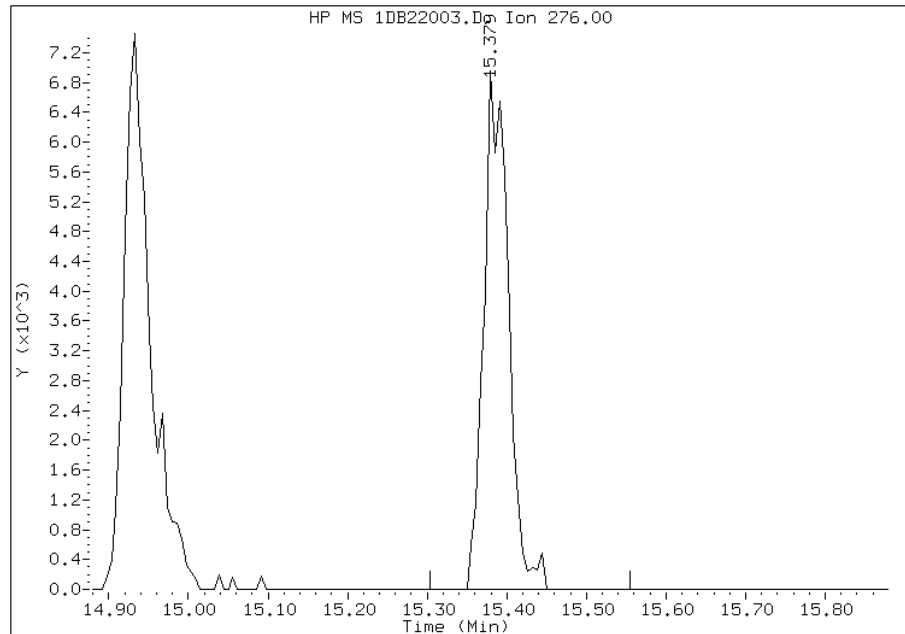
### Processing Integration Results

RT: 15.44  
Response: 456  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 15.38  
Response: 14886  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
\$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

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

Data File: 1DB22004.D

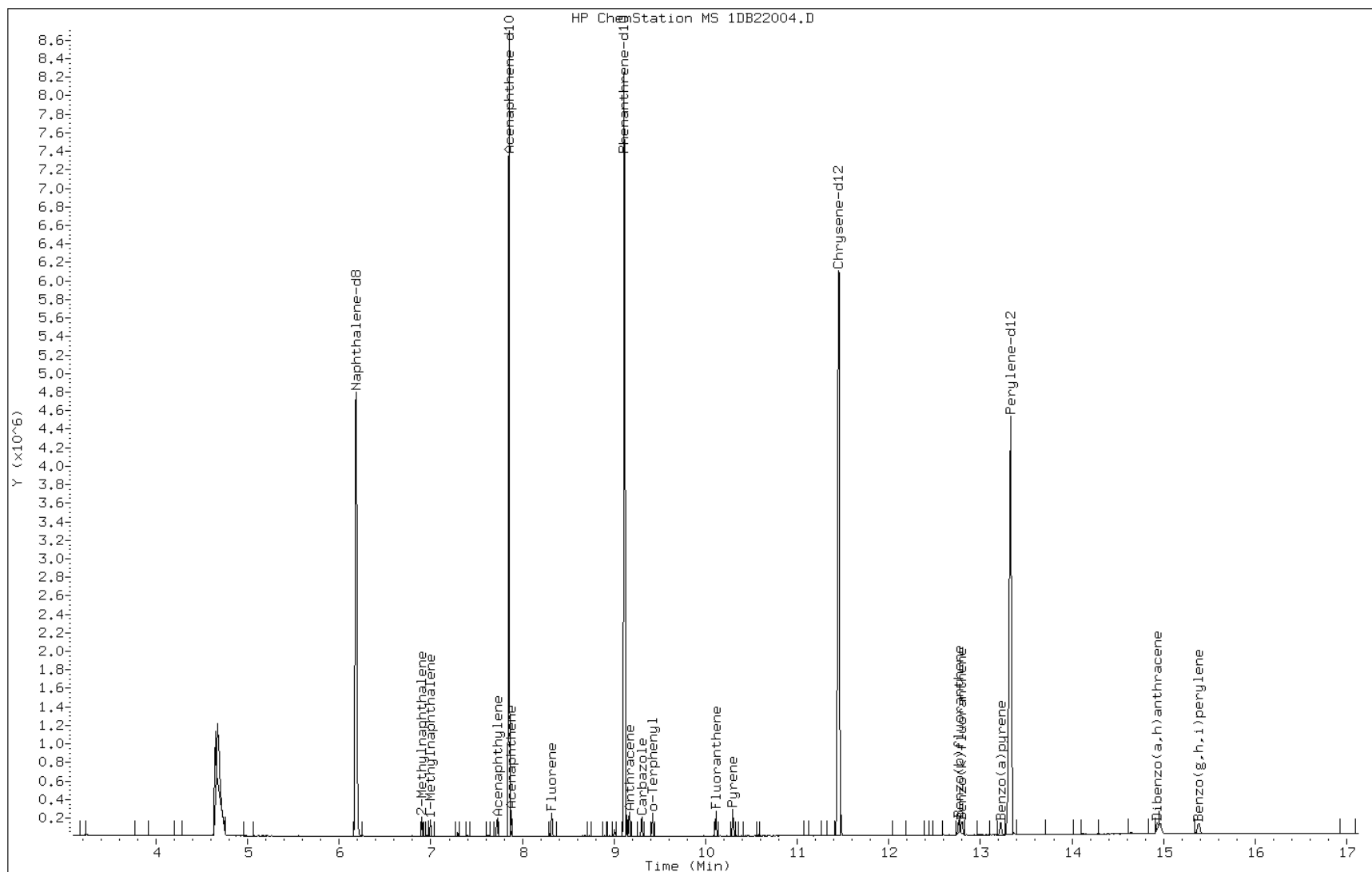
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

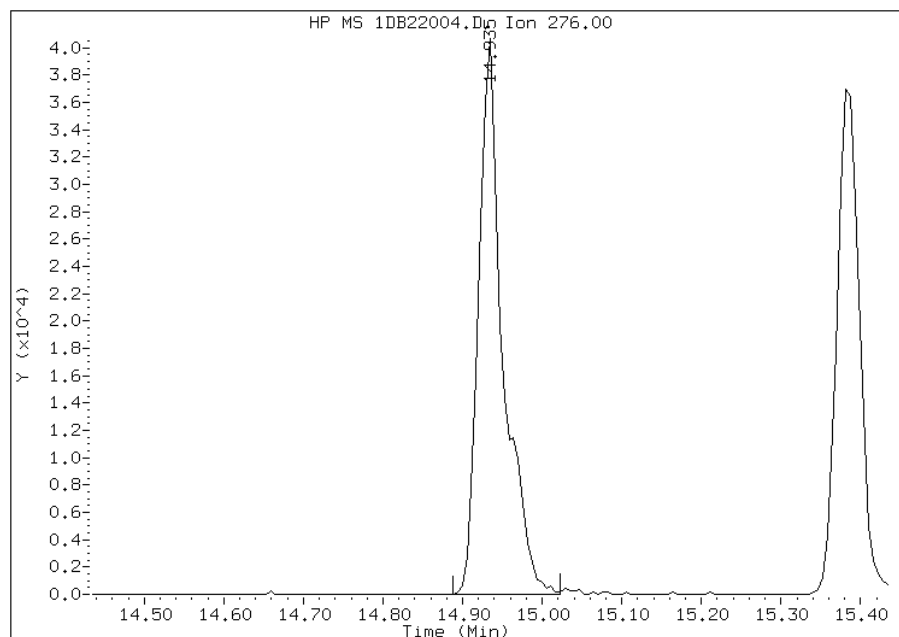


## Manual Integration Report

Data File: 1DB22004.D  
Inj. Date and Time: 22-FEB-2013 12:35  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

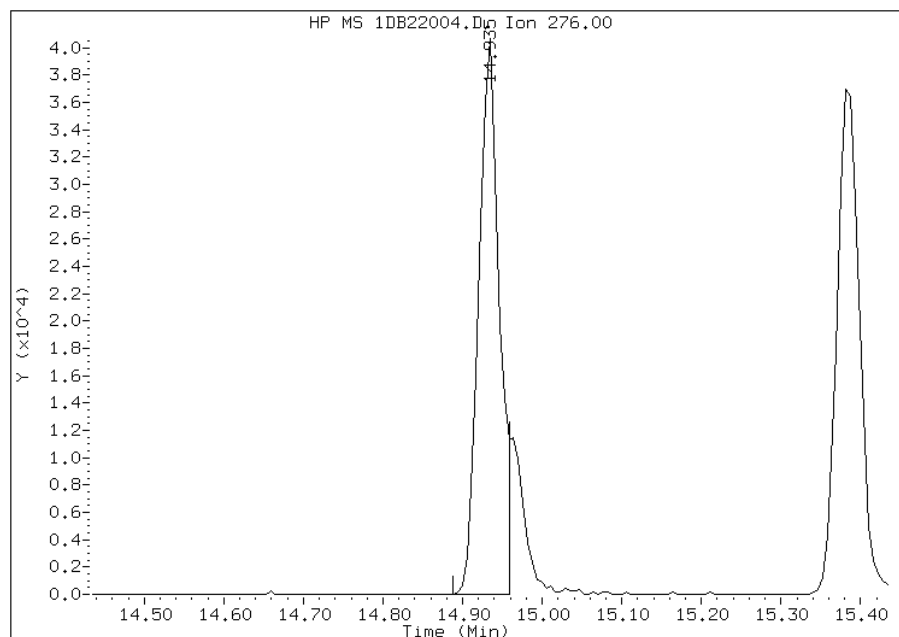
### Processing Integration Results

RT: 14.93  
Response: 86267  
Amount: 1  
Conc: 1



### Manual Integration Results

RT: 14.93  
Response: 73004  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D  
Lab Smp Id: IC-1512360  
Inj Date : 22-FEB-2013 12:58  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : IC-1512360  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D  
Als bottle: 5 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
*****	****	****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

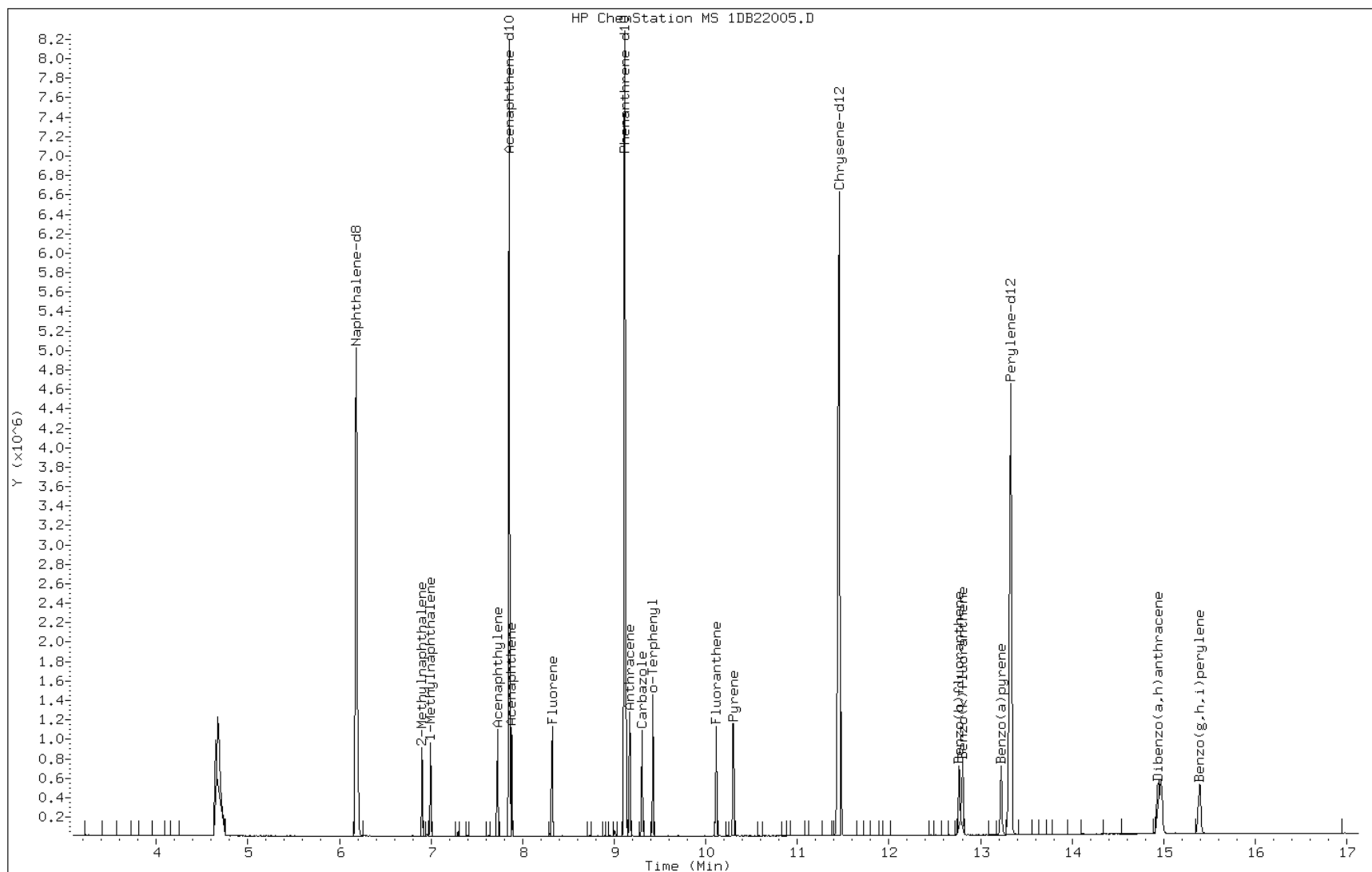
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

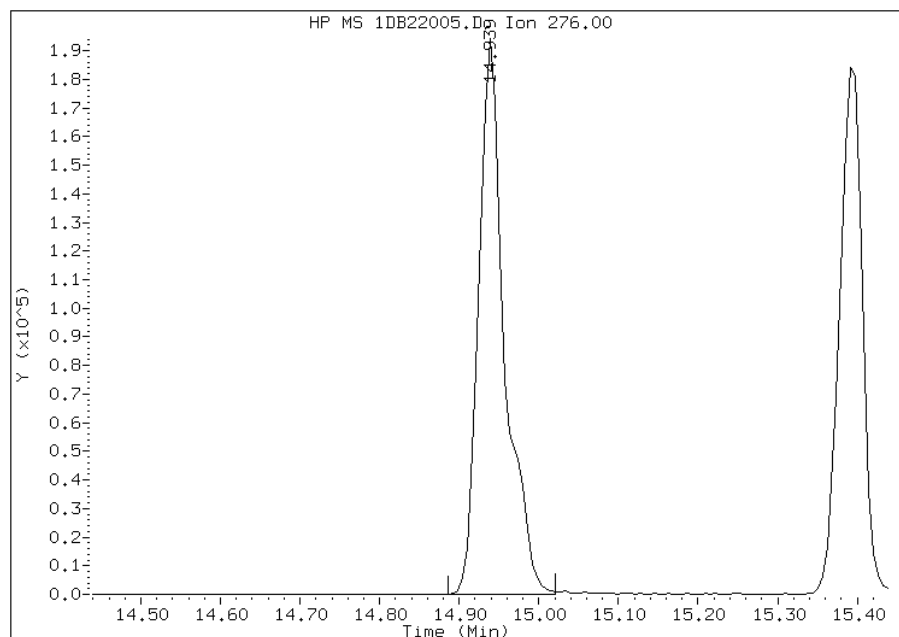


## Manual Integration Report

Data File: 1DB22005.D  
Inj. Date and Time: 22-FEB-2013 12:58  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

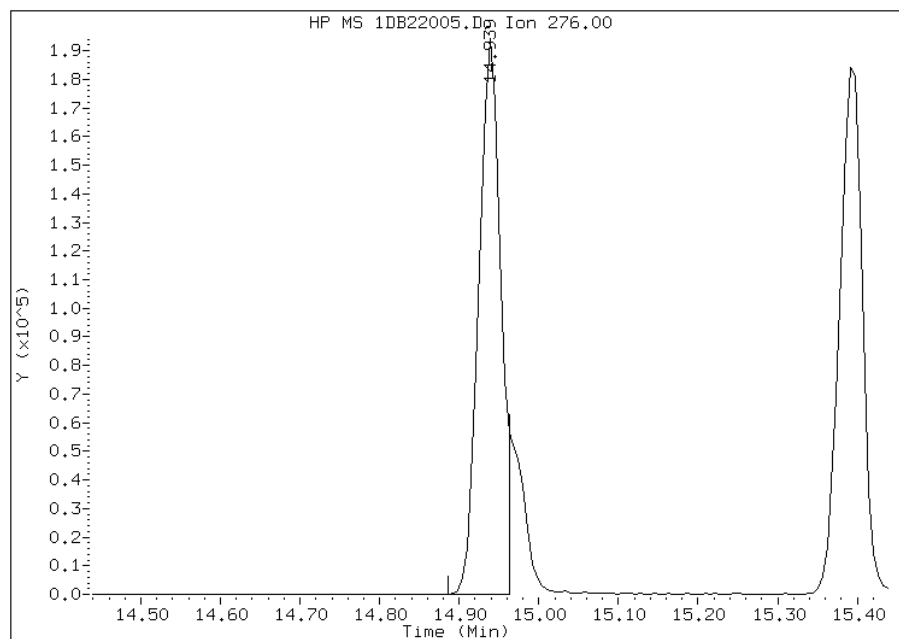
### Processing Integration Results

RT: 14.94  
Response: 437022  
Amount: 5  
Conc: 5



### Manual Integration Results

RT: 14.94  
Response: 372428  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D  
Lab Smp Id: IC-1512361  
Inj Date : 22-FEB-2013 13:21  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : IC-1512361  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D  
Als bottle: 6 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
*****	****	****	*****	*****	*****	*****	*****
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
\$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

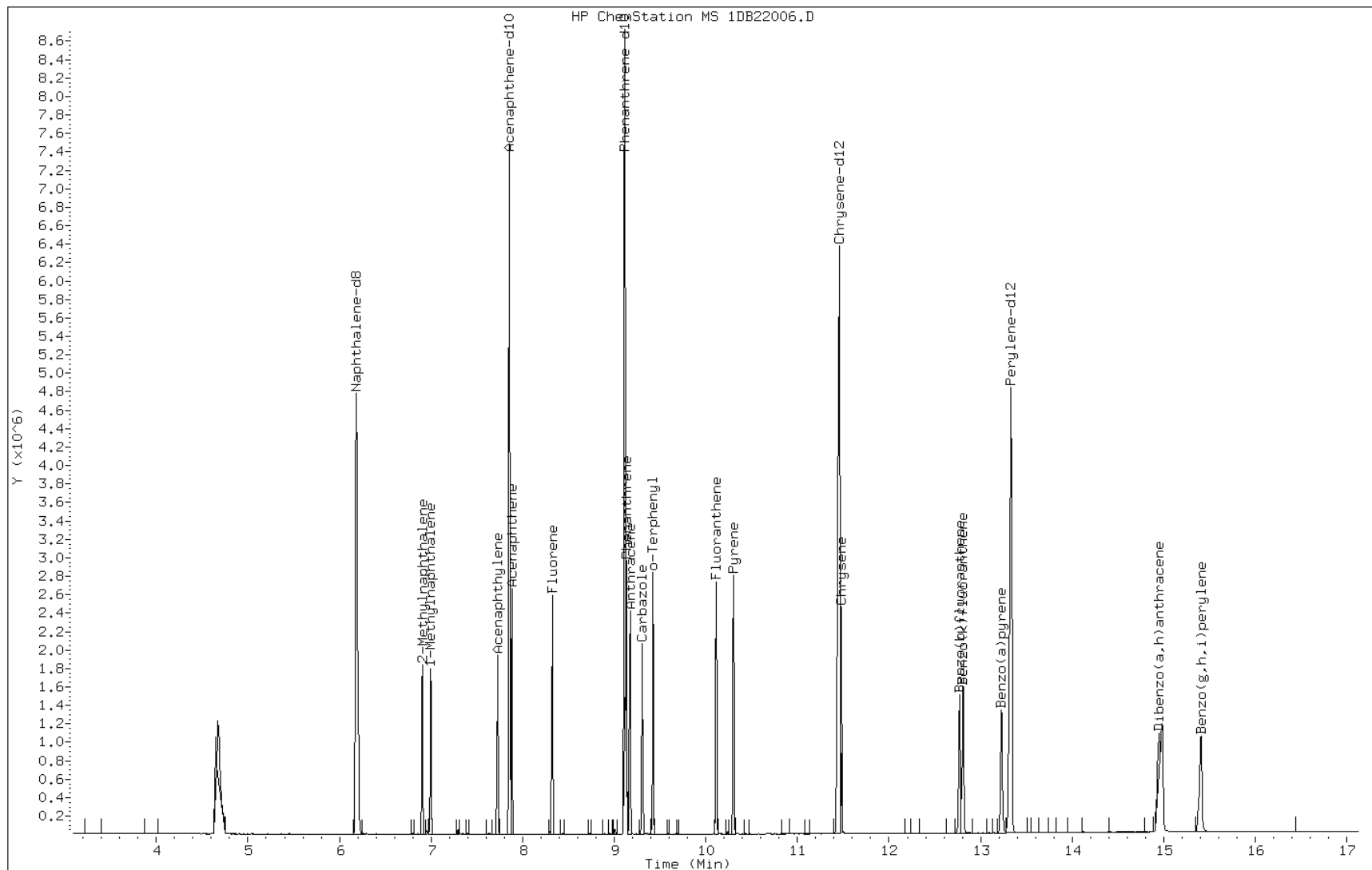
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC

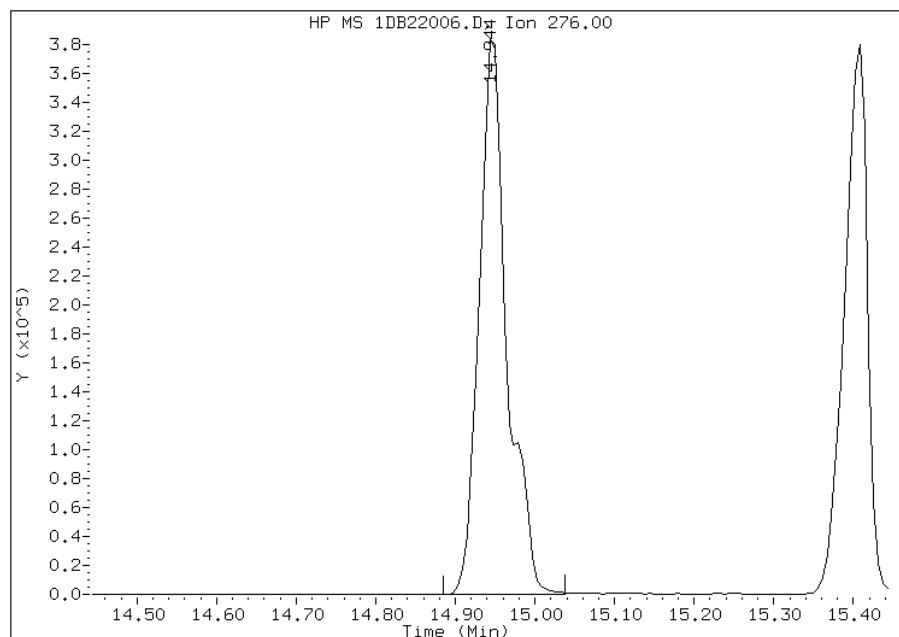


## Manual Integration Report

Data File: 1DB22006.D  
Inj. Date and Time: 22-FEB-2013 13:21  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

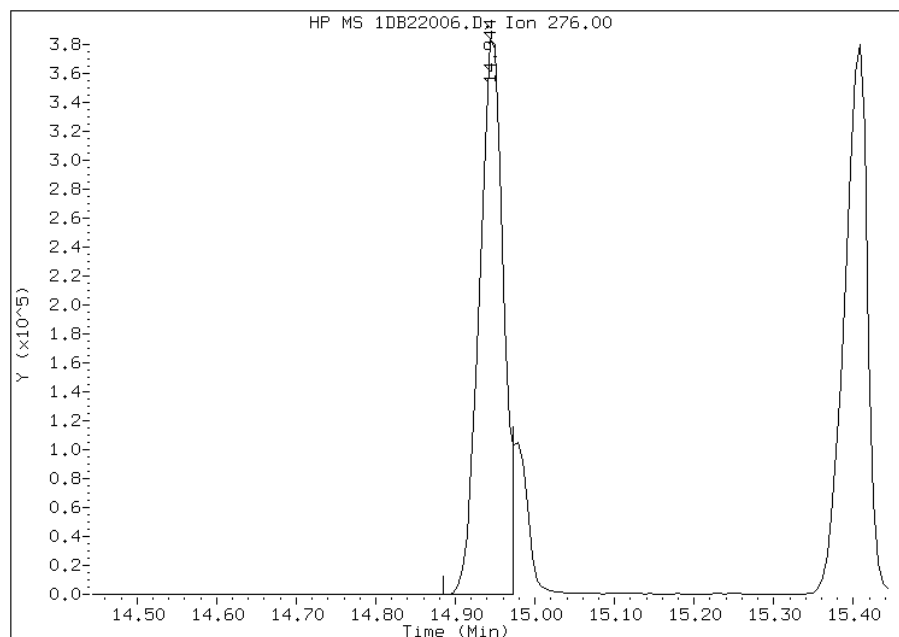
### Processing Integration Results

RT: 14.94  
Response: 923395  
Amount: 11  
Conc: 11



### Manual Integration Results

RT: 14.94  
Response: 814504  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:59  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22007.D  
Lab Smp Id: ICIS-1512372  
Inj Date : 22-FEB-2013 13:43  
Operator : SCC  
Smp Info : ICIS-1512372  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
\$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

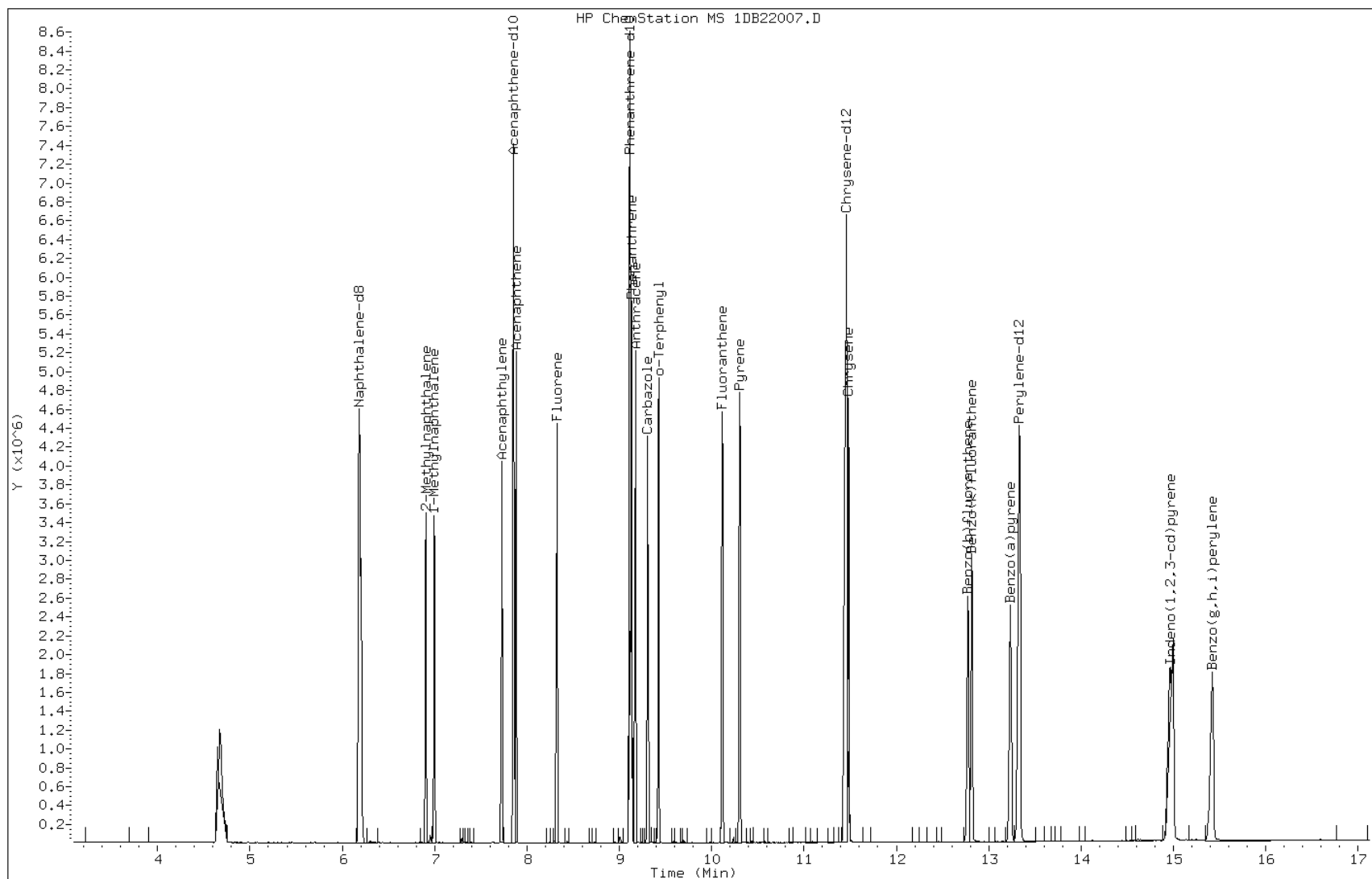
Date: 22-FEB-2013 13:43

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1512372

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D  
Lab Smp Id: IC-1512373  
Inj Date : 22-FEB-2013 14:06  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : IC-1512373  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.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/l)	ON-COL ( ug/l)
*****	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
\$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

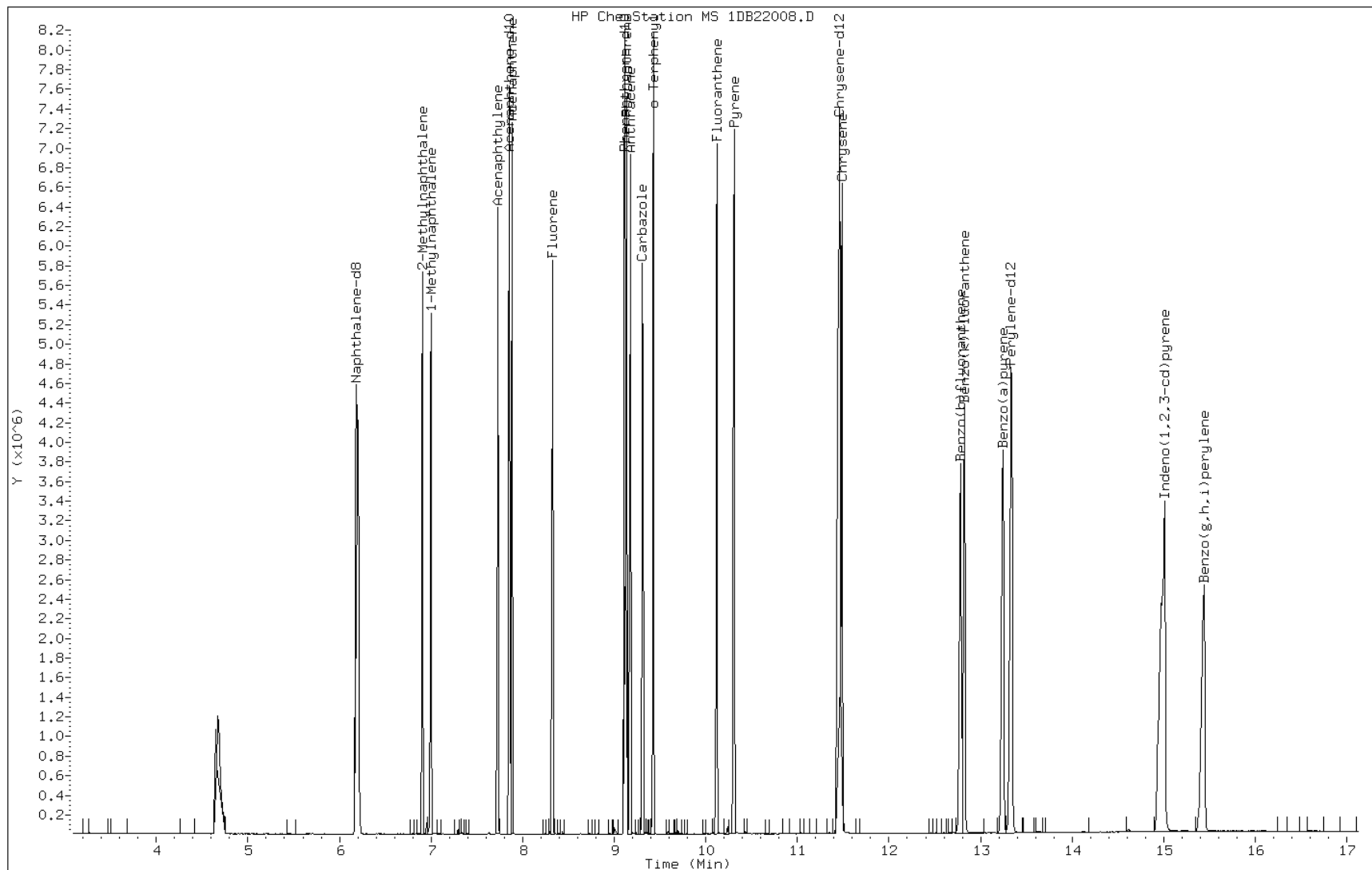
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 22-FEB-2013 14:28  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dfASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.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/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
\$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(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: 1DB22009.D

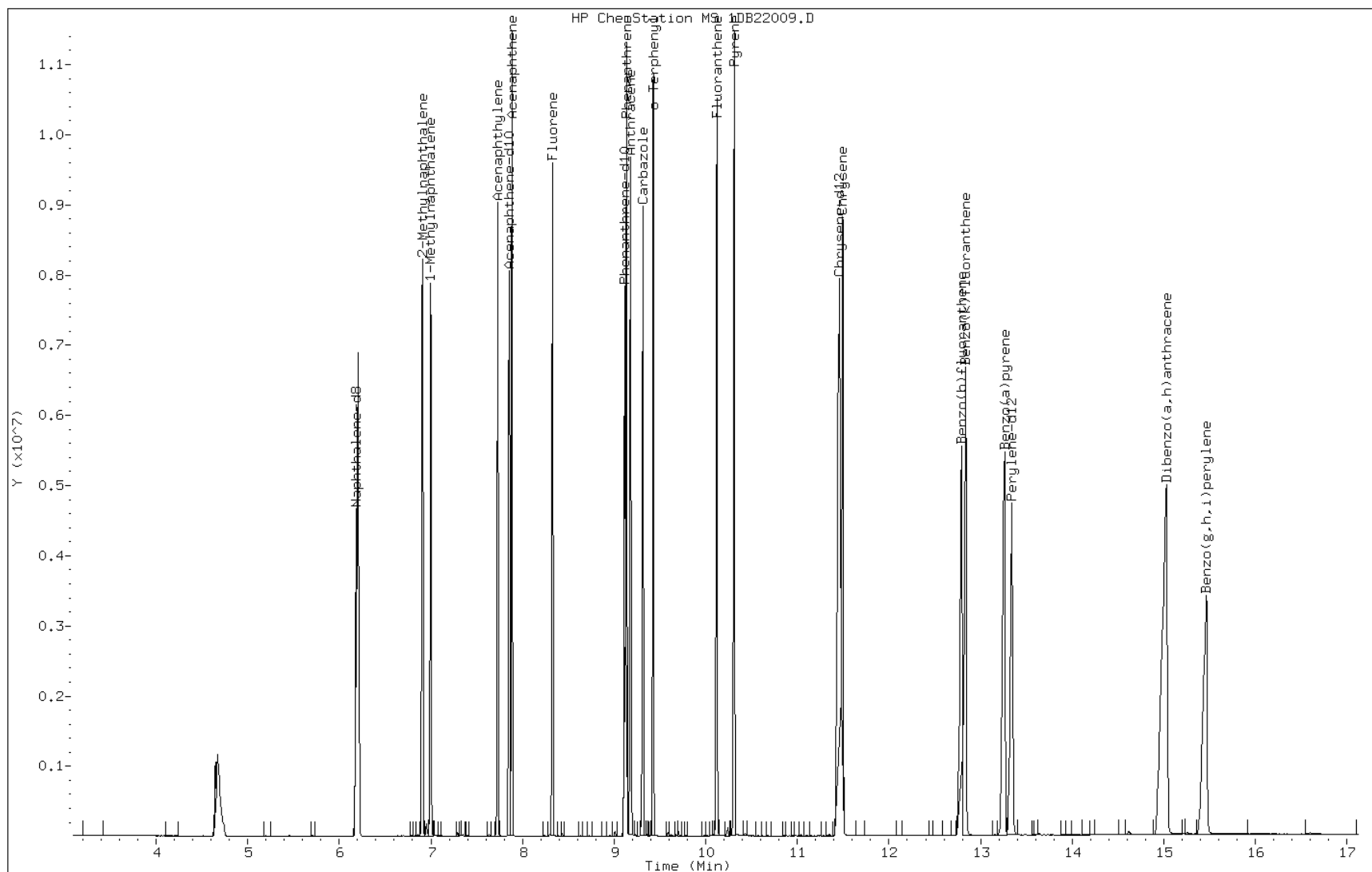
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

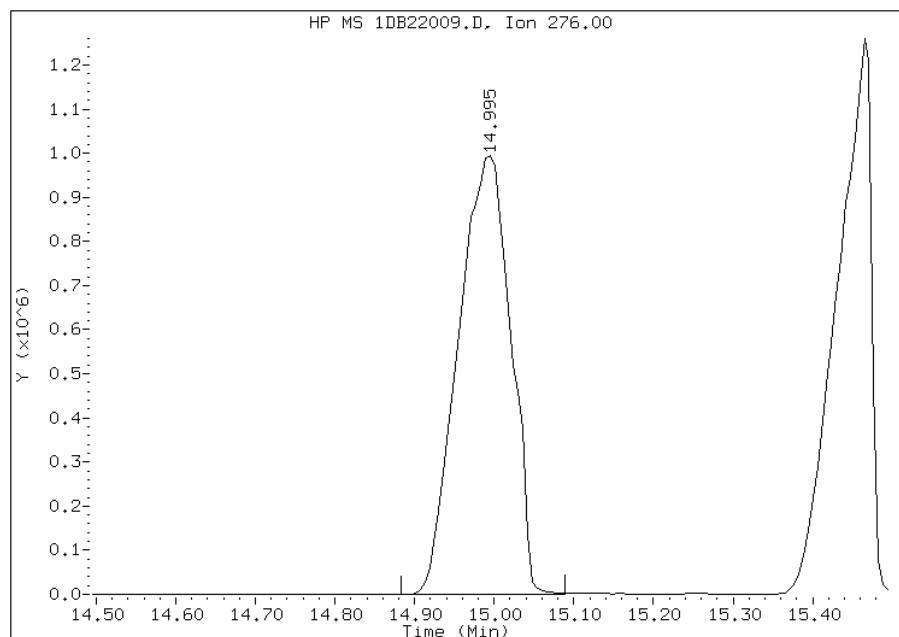


## Manual Integration Report

Data File: 1DB22009.D  
Inj. Date and Time: 22-FEB-2013 14:28  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

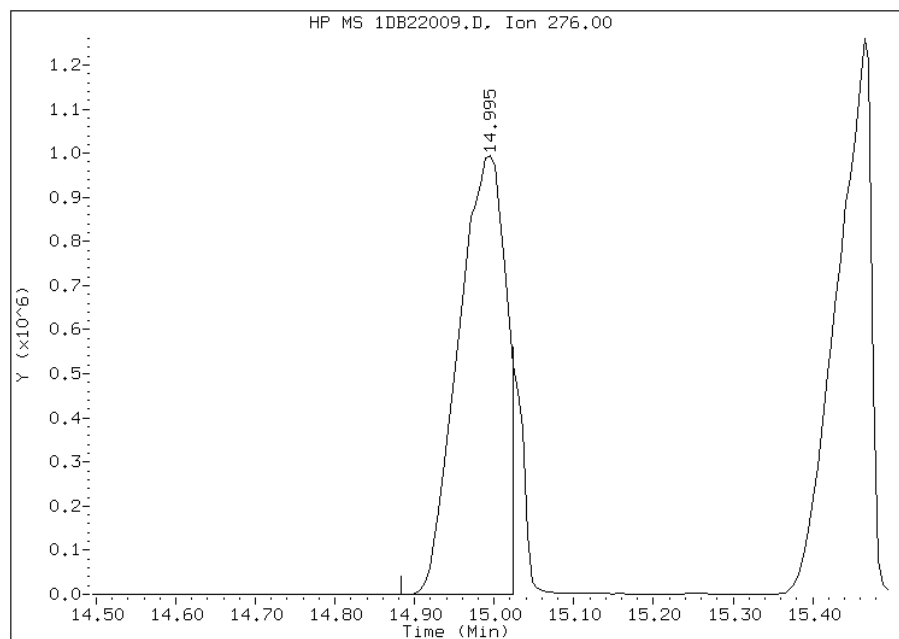
### Processing Integration Results

RT: 15.00  
Response: 4559640  
Amount: 57  
Conc: 57



### Manual Integration Results

RT: 15.00  
Response: 4194422  
Amount: 53  
Conc: 53



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:00  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: ICV 660-135466/10 Calibration Date: 03/15/2013 14:39  
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25  
 Lab File ID: 1AC15010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.8127	0.0000	17600	20000	-12.1	35.0
2-Methylnaphthalene	Lin	0.4655	0.4454	0.0000	16600	20000	-17.0	35.0
1-Methylnaphthalene	Ave	0.5314	0.4701	0.0000	17700	20000	-11.5	35.0
Acenaphthylene	Qua	1.438	1.431	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Qua	0.8158	0.7621	0.0000	17500	20000	-12.4	35.0
Fluorene	Qua	1.029	0.9558	0.0000	18100	20000	-9.3	35.0
Phenanthrene	Ave	1.014	0.8372	0.0000	16500	20000	-17.4	35.0
Anthracene	Ave	0.9830	0.8213	0.0000	16700	20000	-16.5	35.0
Carbazole	Ave	0.8616	0.6430	0.0000	14900	20000	-25.4	35.0
Fluoranthene	Ave	1.002	0.8708	0.0000	17400	20000	-13.1	35.0
Pyrene	Ave	1.147	0.9863	0.0000	17200	20000	-14.0	35.0
Benzo[a]anthracene	Lin	1.289	1.034	0.0000	18000	20000	-10.0	35.0
Chrysene	Ave	1.036	0.8884	0.0000	17200	20000	-14.2	35.0
Benzo[b]fluoranthene	Lin	0.9107	0.8244	0.0000	16200	20000	-19.2	35.0
Benzo[k]fluoranthene	Ave	1.079	0.9294	0.0000	17200	20000	-13.9	35.0
Benzo[a]pyrene	Ave	0.9387	0.6809	0.0000	14500	20000	-27.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.6791	0.0000	16000	20000	-19.8	35.0
Dibenz(a,h)anthracene	Ave	0.8395	0.7632	0.0000	18200	20000	-9.1	35.0
Benzo[g,h,i]perylene	Ave	0.8526	0.6704	0.0000	15700	20000	-21.4	35.0
o-Terphenyl	Qua	0.5732	0.4541	0.0000	16500	20000	-17.6	35.0

## TestAmerica Laboratories

Semivolatile 8270C low level PAH

```
Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15010.D
Lab Smp Id: ICV-1448440
Inj Date  : 15-MAR-2013 14:39
Operator   : SCC                               Inst ID: BSMA5973.i
Smp Info  : ICV-1448440
Misc Info :
Comment   :
Method    : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-bFASTPAHi-m.m
Meth Date : 15-Mar-2013 14:58 cantins        Quant Type: ISTD
Cal Date  : 15-MAR-2013 14:25                Cal File: 1AC15009.D
Als bottle: 10                               QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE                           Compound Sublist: pah.sub
Target Version: 4.14
```

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

						CONCENTRATIONS		
		QUANT SIG				ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	( ug/l)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	2.305	2.303	(1.000)	495704	40.0000	
*	6 Acenaphthene-d10	164	3.325	3.324	(1.000)	291089	40.0000	
*	10 Phenanthrene-d10	188	4.250	4.248	(1.000)	473626	40.0000	
\$	14 o-Terphenyl	230	4.522	4.526	(1.064)	107532	16.4780	16.4780
*	18 Chrysene-d12	240	6.242	6.246	(1.000)	433094	40.0000	
*	23 Perylene-d12	264	7.327	7.330	(1.000)	475583	40.0000	
	2 Naphthalene	128	2.316	2.314	(1.005)	201427	17.5881	17.5881
	3 2-Methylnaphthalene	141	2.716	2.715	(1.178)	110399	16.5942	16.5942
	4 1-Methylnaphthalene	142	2.770	2.773	(1.202)	116516	17.6931	17.6931
	5 Acenaphthylene	152	3.240	3.238	(0.974)	208291	18.8736	18.8735
	7 Acenaphthene	154	3.347	3.345	(1.006)	110915	17.5296	17.5296
	9 Fluorene	166	3.651	3.649	(1.098)	139114	18.1415	18.1415
	11 Phenanthrene	178	4.266	4.264	(1.004)	198264	16.5166	16.5166
	12 Anthracene	178	4.298	4.296	(1.011)	194486	16.7093	16.7093
	13 Carbazole	167	4.453	4.456	(1.048)	152266	14.9256	14.9256(M)
	15 Fluoranthene	202	5.110	5.113	(1.202)	206210	17.3785	17.3785
	16 Pyrene	202	5.275	5.279	(0.845)	213575	17.1991	17.1990
	17 Benzo(a)anthracene	228	6.237	6.235	(0.999)	223832	17.9907	17.9907

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	6.258	6.262	(1.003)	192383	17.1506	17.1505
20 Benzo(b)fluoranthene	252	7.049	7.052	(0.962)	196044	16.1625	16.1625
21 Benzo(k)fluoranthene	252	7.070	7.074	(0.965)	221006	17.2278	17.2278
22 Benzo(a)pyrene	252	7.279	7.282	(0.993)	161910	14.5068	14.5068
24 Indeno(1,2,3-cd)pyrene	276	8.032	8.035	(1.096)	161474	16.0342	16.0342(M)
25 Dibenzo(a,h)anthracene	278	8.043	8.045	(1.098)	181488	18.1835	18.1835
26 Benzo(g,h,i)perylene	276	8.214	8.222	(1.121)	159418	15.7263	15.7262

# QC Flag Legend

M - Compound response manually integrated.

Data File: 1AC15010.D

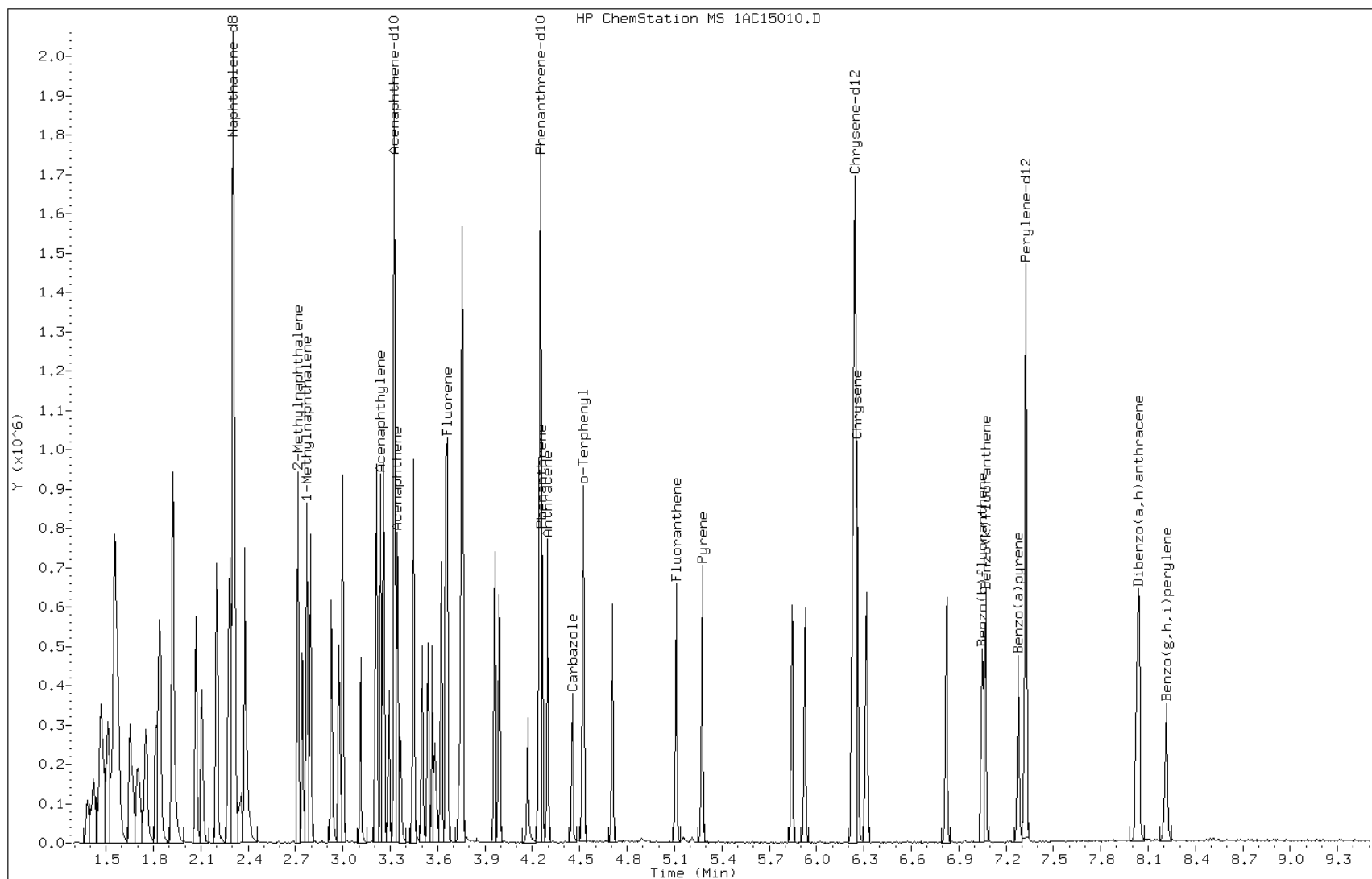
Date: 15-MAR-2013 14:39

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC

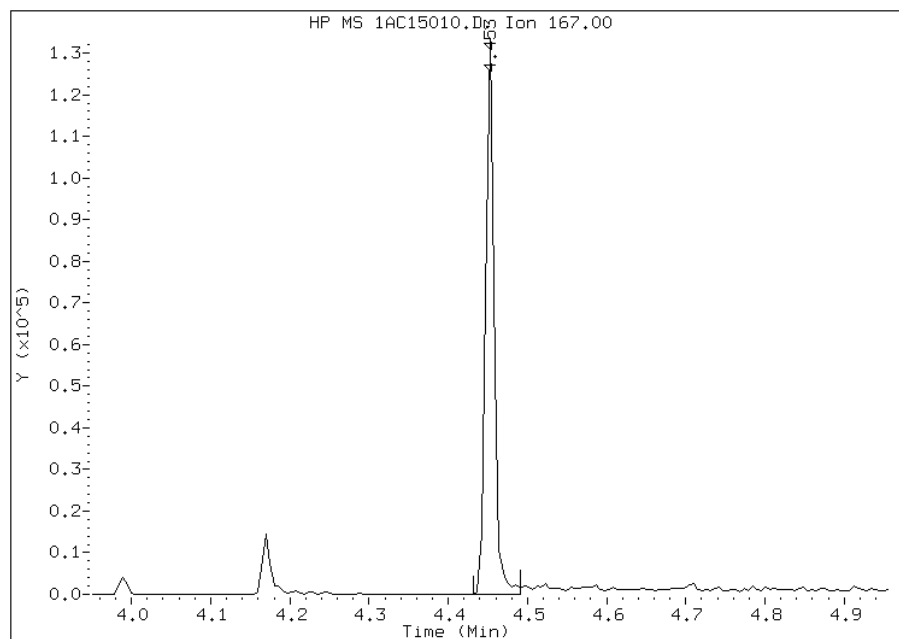


## Manual Integration Report

Data File: 1AC15010.D  
Inj. Date and Time: 15-MAR-2013 14:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Carbazole  
CAS #: 86-74-8  
Report Date: 03/15/2013

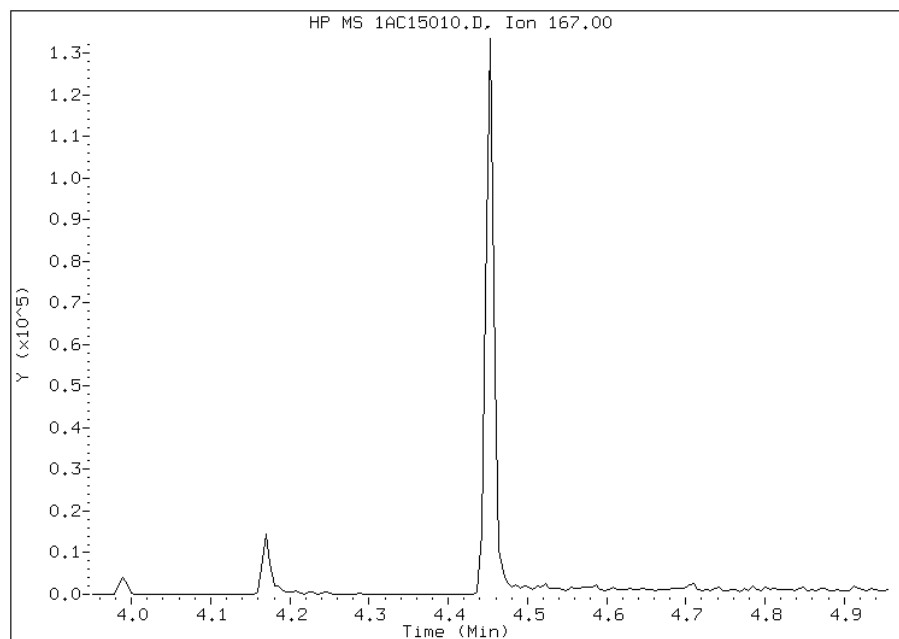
### Processing Integration Results

RT: 4.45  
Response: 95852  
Amount: 9  
Conc: 9



### Manual Integration Results

RT: 4.45  
Response: 152266  
Amount: 15  
Conc: 15



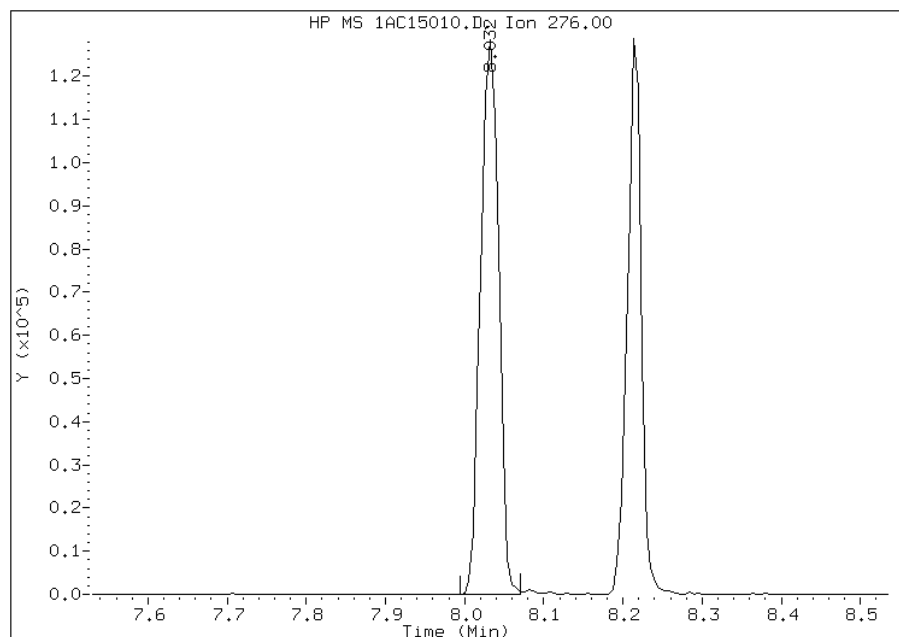
Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 15:02  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1AC15010.D  
Inj. Date and Time: 15-MAR-2013 14:39  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/15/2013

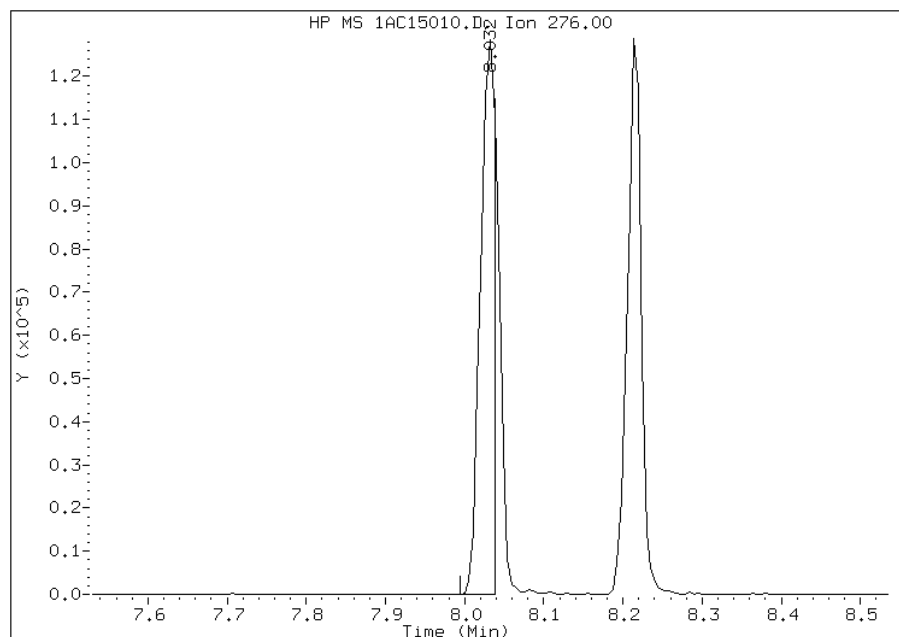
### Processing Integration Results

RT: 8.03  
Response: 202054  
Amount: 20  
Conc: 20



### Manual Integration Results

RT: 8.03  
Response: 161474  
Amount: 16  
Conc: 16



Manually Integrated By: cantins  
Modification Date: 15-Mar-2013 15:00  
Manual Integration Reason: Split Peak



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: CCVIS 660-135850/3 Calibration Date: 03/26/2013 11:28  
 Instrument ID: BSMA5973 Calib Start Date: 03/15/2013 12:54  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 03/15/2013 14:25  
 Lab File ID: 1AC26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9241	0.9131	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Lin	0.4655	0.4916	0.0000	18200	20000	-8.9	20.0
1-Methylnaphthalene	Ave	0.5314	0.5338	0.0000	20100	20000	0.4	20.0
Acenaphthylene	Qua	1.438	1.382	0.0000	18300	20000	-8.6	20.0
Acenaphthene	Qua	0.8158	0.7886	0.0000	18100	20000	-9.6	20.0
Fluorene	Qua	1.029	0.9897	0.0000	18700	20000	-6.4	20.0
Phenanthrene	Ave	1.014	0.9698	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	0.9830	0.8829	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.8616	0.7742	0.0000	18000	20000	-10.1	20.0
Fluoranthene	Ave	1.002	0.9577	0.0000	19100	20000	-4.4	20.0
Pyrene	Ave	1.147	1.005	0.0000	17500	20000	-12.3	20.0
Benzo[a]anthracene	Lin	1.289	1.066	0.0000	18600	20000	-7.2	20.0
Chrysene	Ave	1.036	0.9874	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Lin	0.9107	0.9212	0.0000	17900	20000	-10.4	20.0
Benzo[k]fluoranthene	Ave	1.079	1.069	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9387	0.9058	0.0000	19300	20000	-3.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8470	0.8163	0.0000	19300	20000	-3.6	20.0
Dibenz(a,h)anthracene	Ave	0.8395	0.8601	0.0000	20500	20000	2.5	20.0
Benzo[g,h,i]perylene	Ave	0.8526	0.8025	0.0000	18800	20000	-5.9	20.0
o-Terphenyl	Qua	0.5732	0.5280	0.0000	18900	20000	-5.4	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 26-MAR-2013 11:28  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26003.D  
 Meth Date : 26-Mar-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 15-MAR-2013 14:25 Cal File: 1AC15009.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	2.272	2.272	(1.000)	509128	40.0000	(H)
* 6 Acenaphthene-d10	164	3.287	3.287	(1.000)	363732	40.0000	(H)
* 10 Phenanthrene-d10	188	4.205	4.205	(1.000)	582610	40.0000	
\$ 14 o-Terphenyl	230	4.478	4.478	(1.065)	153815	20.0000	18.9101
* 18 Chrysene-d12	240	6.193	6.193	(1.000)	582279	40.0000	(H)
* 23 Perylene-d12	264	7.272	7.272	(1.000)	536475	40.0000	(H)
2 Naphthalene	128	2.282	2.282	(1.005)	232447	20.0000	19.7615(H)
3 2-Methylnaphthalene	141	2.683	2.683	(1.181)	125138	20.0000	18.2224(H)
4 1-Methylnaphthalene	142	2.736	2.736	(1.205)	135878	20.0000	20.0892(H)
5 Acenaphthylene	152	3.201	3.201	(0.974)	251313	20.0000	18.2805(H)
7 Acenaphthene	154	3.308	3.308	(1.007)	143410	20.0000	18.0759
9 Fluorene	166	3.612	3.612	(1.099)	179994	20.0000	18.7170(H)
11 Phenanthrene	178	4.221	4.221	(1.004)	282504	20.0000	19.1319
12 Anthracene	178	4.253	4.253	(1.011)	257184	20.0000	17.9627
13 Carbazole	167	4.408	4.408	(1.048)	225529	20.0000	17.9717
15 Fluoranthene	202	5.065	5.065	(1.204)	278971	20.0000	19.1126
16 Pyrene	202	5.226	5.226	(0.844)	292698	20.0000	17.5317(H)
17 Benzo(a)anthracene	228	6.177	6.177	(0.997)	310452	20.0000	18.5544(H)
19 Chrysene	228	6.209	6.209	(1.003)	287456	20.0000	19.0604(H)
20 Benzo(b)fluoranthene	252	6.994	6.994	(0.962)	247107	20.0000	17.9188(H)
21 Benzo(k)fluoranthene	252	7.015	7.015	(0.965)	286853	20.0000	19.8226(H)
22 Benzo(a)pyrene	252	7.224	7.224	(0.993)	242981	20.0000	19.2995(H)
24 Indeno(1,2,3-cd)pyrene	276	7.972	7.972	(1.096)	218959	20.0000	19.2745(MH)
25 Dibenzo(a,h)anthracene	278	7.982	7.982	(1.098)	230704	20.0000	20.4909(H)
26 Benzo(g,h,i)perylene	276	8.148	8.148	(1.120)	215259	20.0000	18.8246(H)

QC Flag Legend

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

Data File: 1AC26003.D

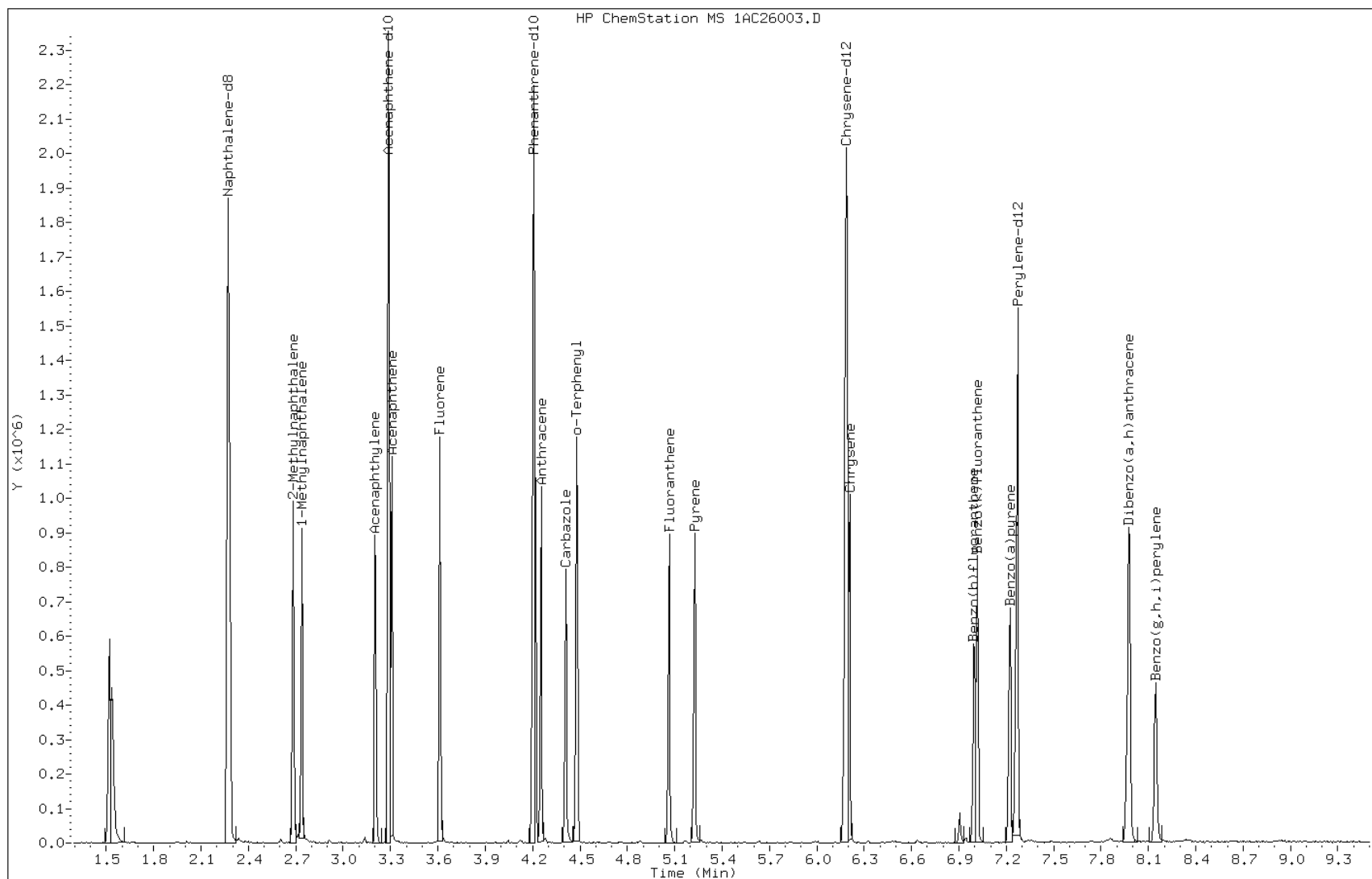
Date: 26-MAR-2013 11:28

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1512372

Operator: SCC

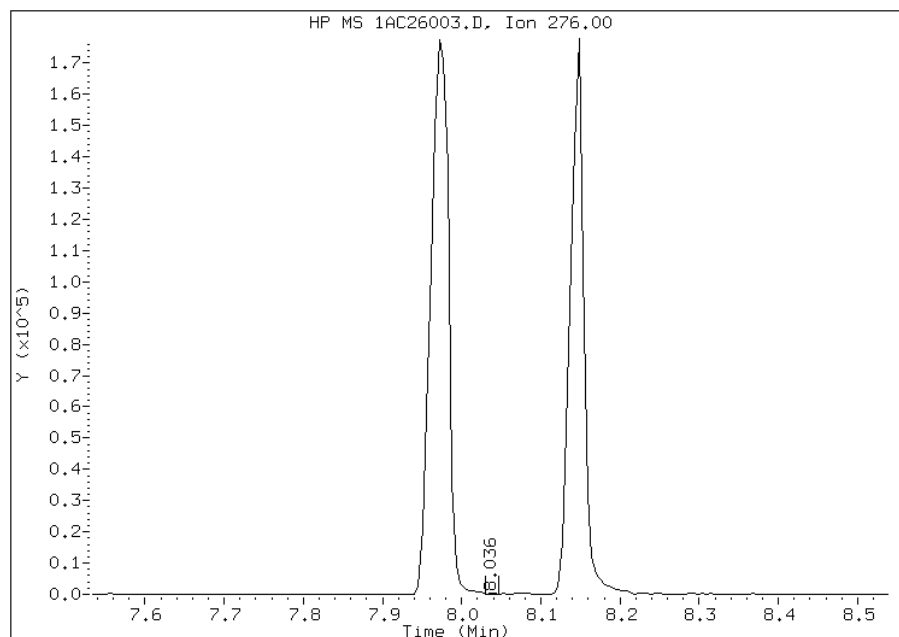


## Manual Integration Report

Data File: 1AC26003.D  
Inj. Date and Time: 26-MAR-2013 11:28  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

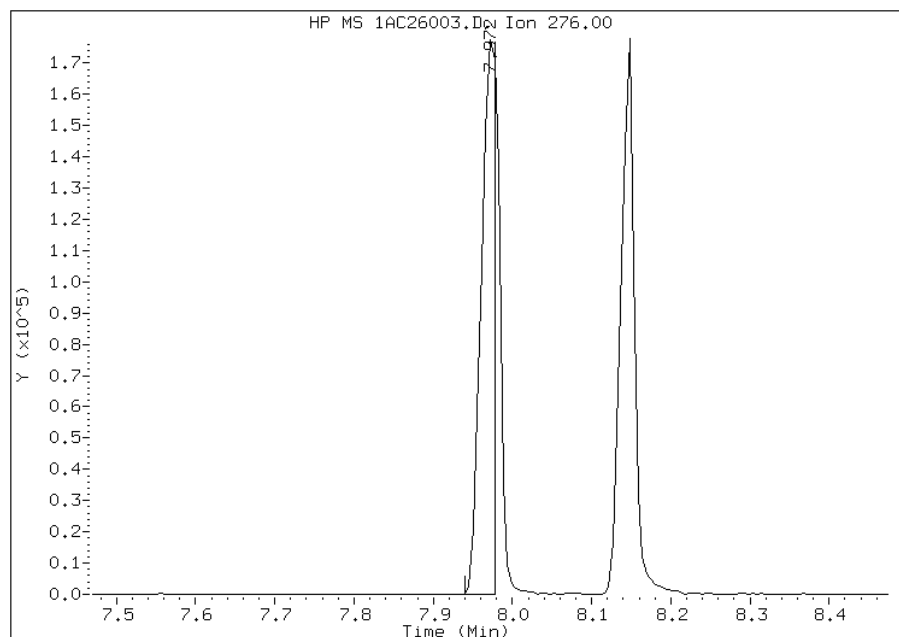
### Processing Integration Results

RT: 8.04  
Response: 205  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 7.97  
Response: 218959  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 11:41  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:06  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D  
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	MASS	QUANT SIG				CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
						(ug/ml)	( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	2141313	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12	264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene	152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene	154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene	166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene	178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene	178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole	167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene	202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene	202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====		=====	=====
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1353867		16.9566	16.9566
19 Chrysene	228	7.815	7.822	(1.002)	1268380		15.8740	15.8740
20 Benzo(b)fluoranthene	252	8.656	8.657	(0.960)	1483299		18.7051	18.7050
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1339047		16.4606	16.4605
22 Benzo(a)pyrene	252	8.956	8.963	(0.993)	1205817		15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.239	(1.135)	1271997		17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.257	(1.137)	1346652		19.0003	19.0002
26 Benzo(g,h,i)perylene	276	10.597	10.610	(1.175)	1313135		17.3240	17.3240

# QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

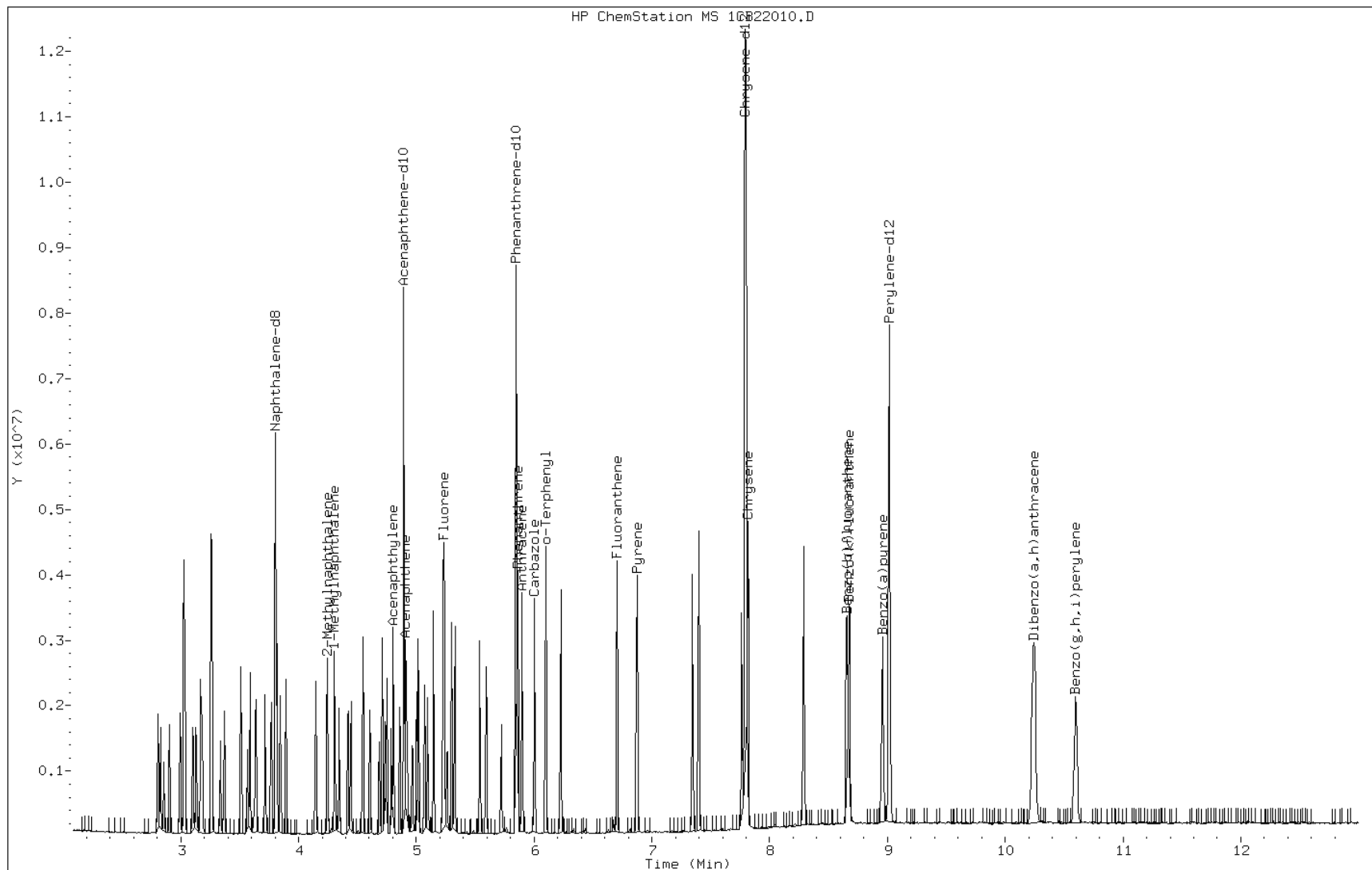
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



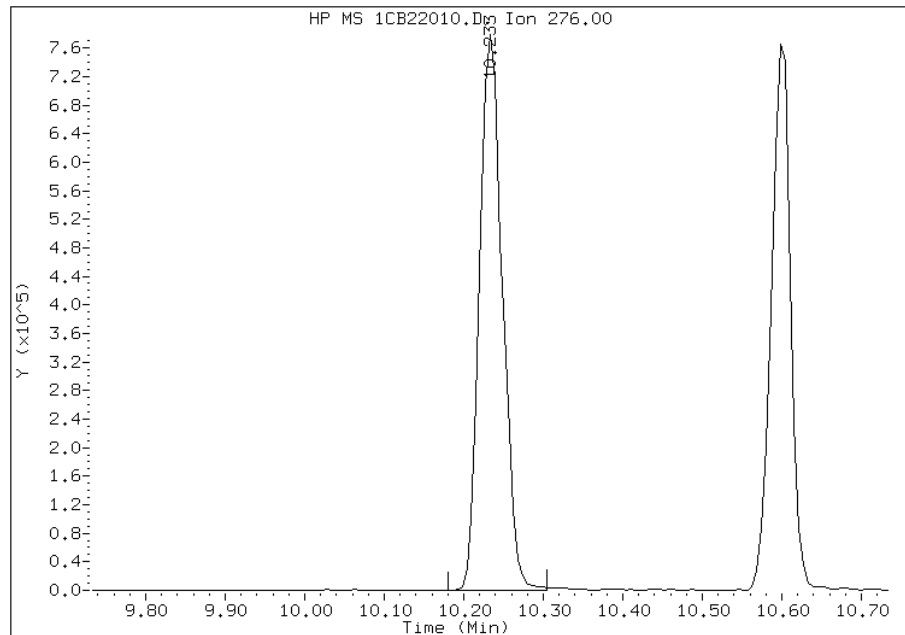


## Manual Integration Report

Data File: 1CB22010.D  
Inj. Date and Time: 22-FEB-2013 14:06  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

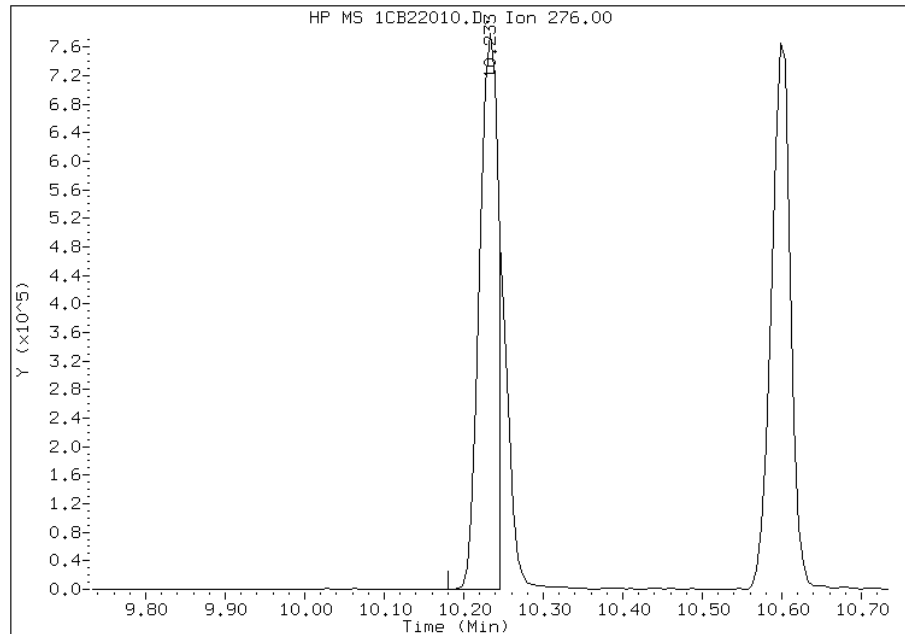
### Processing Integration Results

RT: 10.23  
Response: 1550656  
Amount: 21  
Conc: 21



### Manual Integration Results

RT: 10.23  
Response: 1271997  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:21  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: CCVIS 660-135830/3 Calibration Date: 03/27/2013 10:35  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CC27003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.070	0.0000	20600	20000	2.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6931	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6567	0.0000	20800	20000	3.8	20.0
Acenaphthylene	Ave	1.613	1.678	0.0000	20800	20000	4.0	20.0
Acenaphthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Fluorene	Ave	1.268	1.250	0.0000	19700	20000	-1.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.111	0.0000	19600	20000	-1.8	20.0
Carbazole	Ave	1.006	1.004	0.0000	20000	20000	-0.2	20.0
Fluoranthene	Ave	1.267	1.264	0.0000	20000	20000	-0.2	20.0
Pyrene	Ave	1.075	1.116	0.0000	20800	20000	3.8	20.0
Benzo[a]anthracene	Ave	1.154	1.067	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.155	1.108	0.0000	19200	20000	-4.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.141	0.0000	21300	20000	6.4	20.0
Benzo[a]pyrene	Ave	1.015	1.040	0.0000	20500	20000	2.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.019	0.0000	21300	20000	6.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9194	0.0000	19700	20000	-1.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9809	0.0000	19600	20000	-1.8	20.0
o-Terphenyl	Ave	0.6039	0.5973	0.0000	19800	20000	-1.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 27-MAR-2013 10:35  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.727	3.727	(1.000)	740866	40.0000	(H)
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	575327	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092531	40.0000	(H)
\$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	326267	20.0000	19.7793(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1389214	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1427635	40.0000	(H)
2 Naphthalene	128	3.739	3.739	(1.003)	396388	20.0000	20.5515(H)
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	256741	20.0000	19.9555(H)
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	243257	20.0000	20.7601(H)
5 Acenaphthylene	152	4.727	4.727	(0.982)	482667	20.0000	20.8087
7 Acenaphthene	154	4.833	4.833	(1.004)	279269	20.0000	19.3705
9 Fluorene	166	5.157	5.157	(1.071)	359663	20.0000	19.7257
11 Phenanthrene	178	5.780	5.780	(1.003)	609016	20.0000	19.2780(H)
12 Anthracene	178	5.815	5.815	(1.009)	606997	20.0000	19.6464(H)
13 Carbazole	167	5.921	5.921	(1.028)	548301	20.0000	19.9640(H)
15 Fluoranthene	202	6.615	6.615	(1.148)	690237	20.0000	19.9512(H)
16 Pyrene	202	6.786	6.786	(0.881)	775208	20.0000	20.7646(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	741118	20.0000	18.4838(H)
19 Chrysene	228	7.727	7.727	(1.003)	769393	20.0000	19.1746(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	739836	20.0000	19.8297(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	814806	20.0000	21.2889(H)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	742319	20.0000	20.4836(H)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	727254	20.0000	21.3325(MH)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.133)	656298	20.0000	19.6814(H)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	700171	20.0000	19.6333(H)

QC Flag Legend

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

Data File: 1CC27003.D

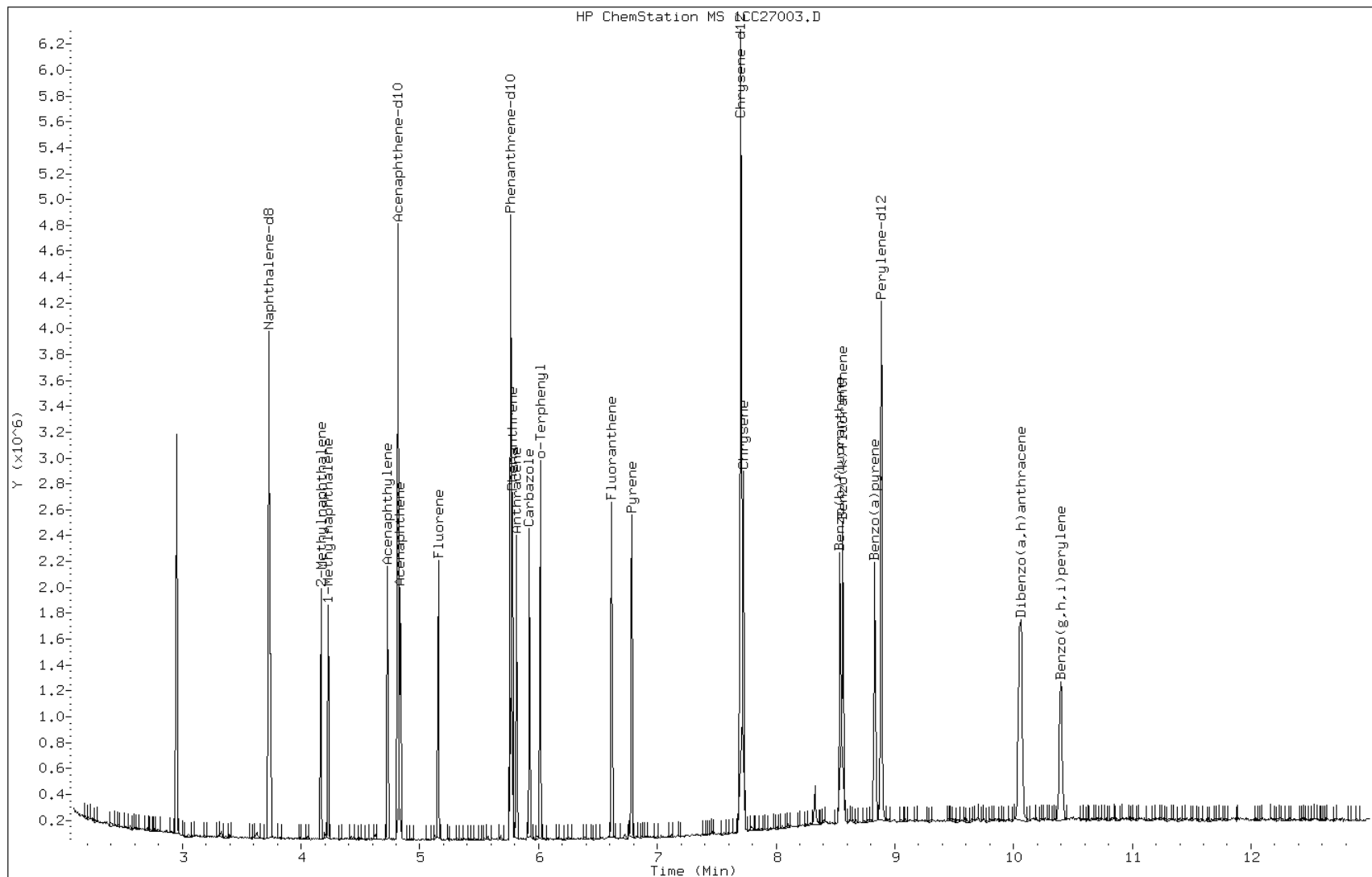
Date: 27-MAR-2013 10:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

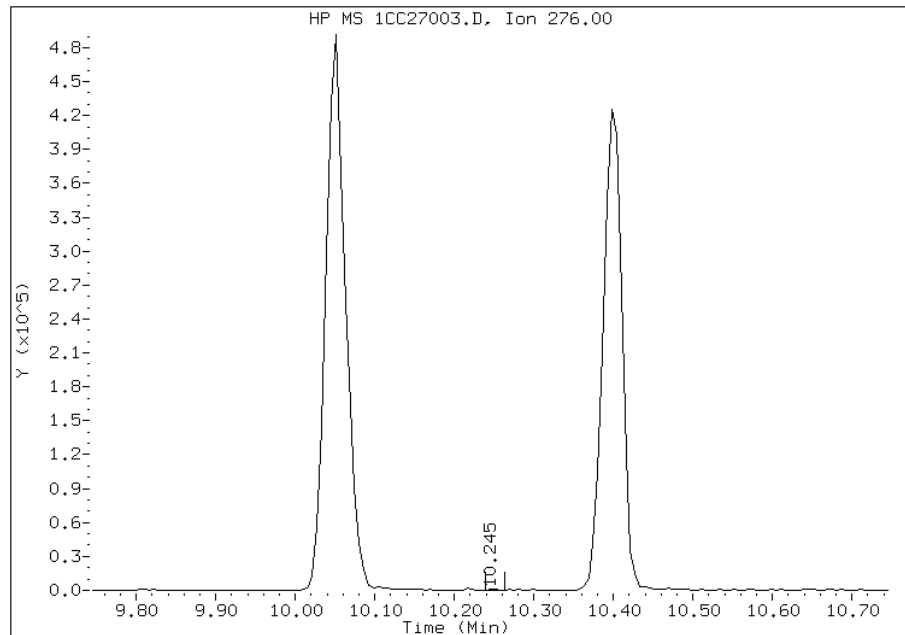


## Manual Integration Report

Data File: 1CC27003.D  
Inj. Date and Time: 27-MAR-2013 10:35  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

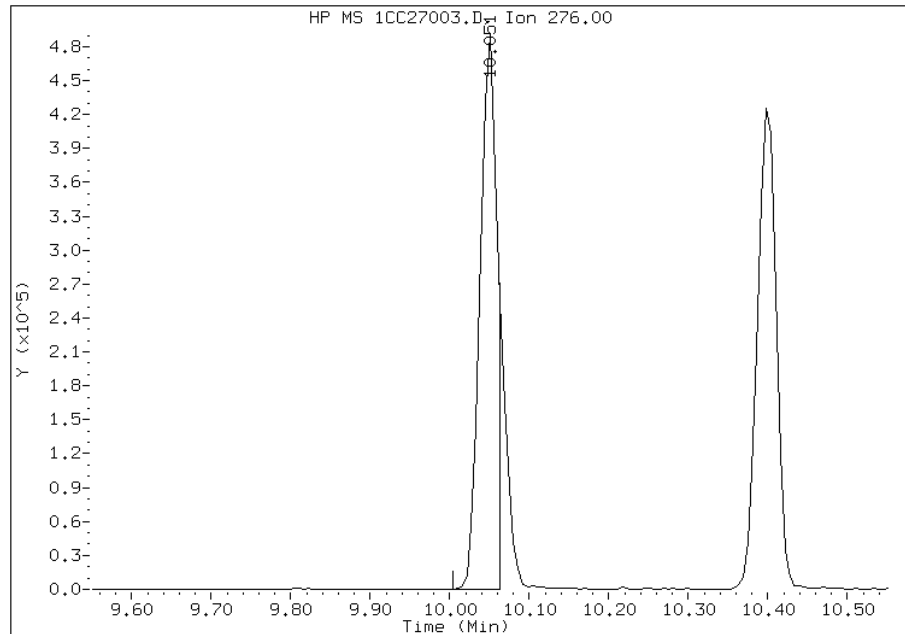
### Processing Integration Results

RT: 10.25  
Response: 881  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 10.05  
Response: 727254  
Amount: 21  
Conc: 21



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 10:50  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: CCVIS 660-135902/3 Calibration Date: 03/28/2013 11:59  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CC28003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.043	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6946	0.6791	0.0000	19600	20000	-2.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6718	0.0000	21200	20000	6.2	20.0
Acenaphthylene	Ave	1.613	1.586	0.0000	19700	20000	-1.7	20.0
Acenaphthene	Ave	1.002	0.9488	0.0000	18900	20000	-5.3	20.0
Fluorene	Ave	1.268	1.258	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.157	1.102	0.0000	19100	20000	-4.7	20.0
Anthracene	Ave	1.131	1.116	0.0000	19700	20000	-1.3	20.0
Carbazole	Ave	1.006	0.9778	0.0000	19400	20000	-2.8	20.0
Fluoranthene	Ave	1.267	1.229	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.121	0.0000	20900	20000	4.3	20.0
Benzo[a]anthracene	Ave	1.154	1.025	0.0000	17700	20000	-11.3	20.0
Chrysene	Ave	1.155	1.082	0.0000	18700	20000	-6.3	20.0
Benzo[b]fluoranthene	Ave	1.045	1.064	0.0000	20400	20000	1.8	20.0
Benzo[k]fluoranthene	Ave	1.072	1.088	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.015	1.025	0.0000	20200	20000	1.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9407	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8825	0.0000	18900	20000	-5.5	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9391	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.5809	0.0000	19200	20000	-3.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 28-MAR-2013 11:59  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28003.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	3.722	3.722	(1.000)	797659	40.0000	(H)
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	631634	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.763	(1.000)	1190245	40.0000	(H)
\$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	345706	20.0000	19.2372(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1432718	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1426297	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.003)	416161	20.0000	20.0404(H)
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	270837	20.0000	19.5523(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	267925	20.0000	21.2373(H)
5 Acenaphthylene	152	4.722	4.722	(0.982)	500869	20.0000	19.6685
7 Acenaphthene	154	4.833	4.833	(1.005)	299637	20.0000	18.9305
9 Fluorene	166	5.151	5.151	(1.071)	397422	20.0000	19.8535
11 Phenanthrene	178	5.774	5.774	(1.002)	656012	20.0000	19.0609(H)
12 Anthracene	178	5.810	5.810	(1.008)	664445	20.0000	19.7403(H)
13 Carbazole	167	5.921	5.921	(1.028)	581925	20.0000	19.4488(H)
15 Fluoranthene	202	6.616	6.616	(1.148)	731155	20.0000	19.3989(H)
16 Pyrene	202	6.780	6.780	(0.880)	803113	20.0000	20.8588(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	733974	20.0000	17.7498(H)
19 Chrysene	228	7.721	7.721	(1.002)	775164	20.0000	18.7318(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	758720	20.0000	20.3549(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	775934	20.0000	20.2923(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	731036	20.0000	20.1911(H)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	670883	20.0000	19.6974(MH)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	629352	20.0000	18.8910(H)
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	669710	20.0000	18.7968(H)

QC Flag Legend

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

Data File: 1CC28003.D

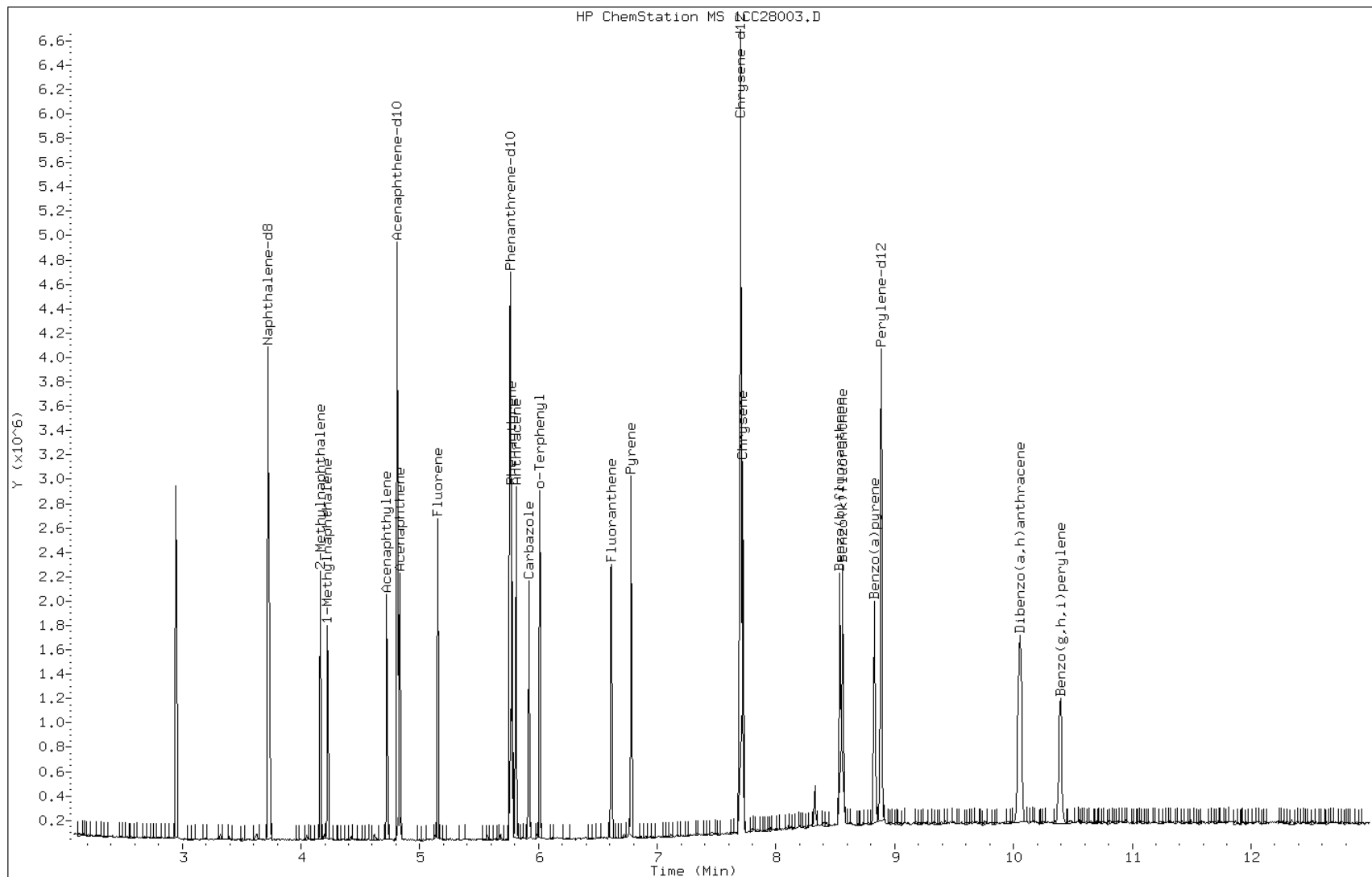
Date: 28-MAR-2013 11:59

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



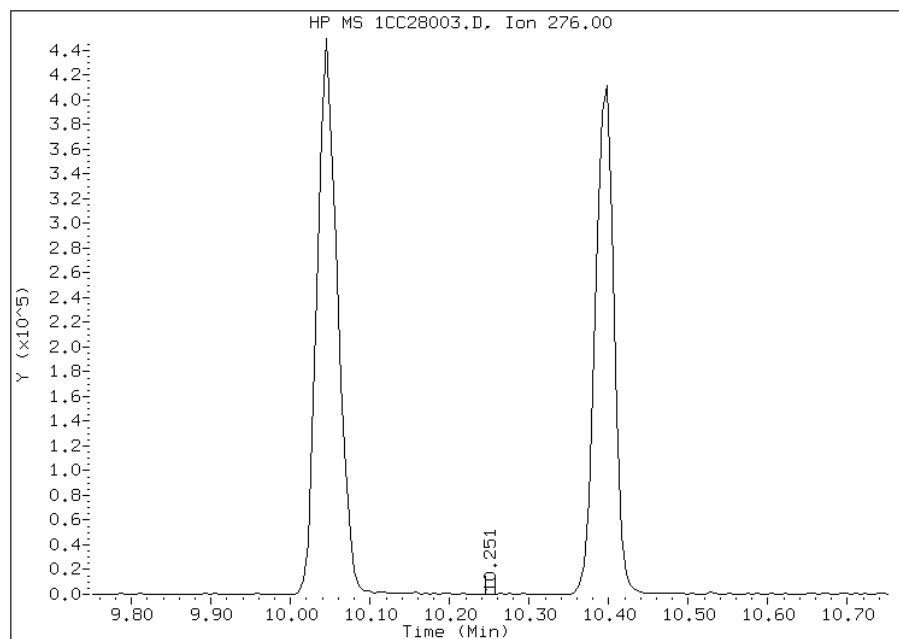


## Manual Integration Report

Data File: 1CC28003.D  
Inj. Date and Time: 28-MAR-2013 11:59  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

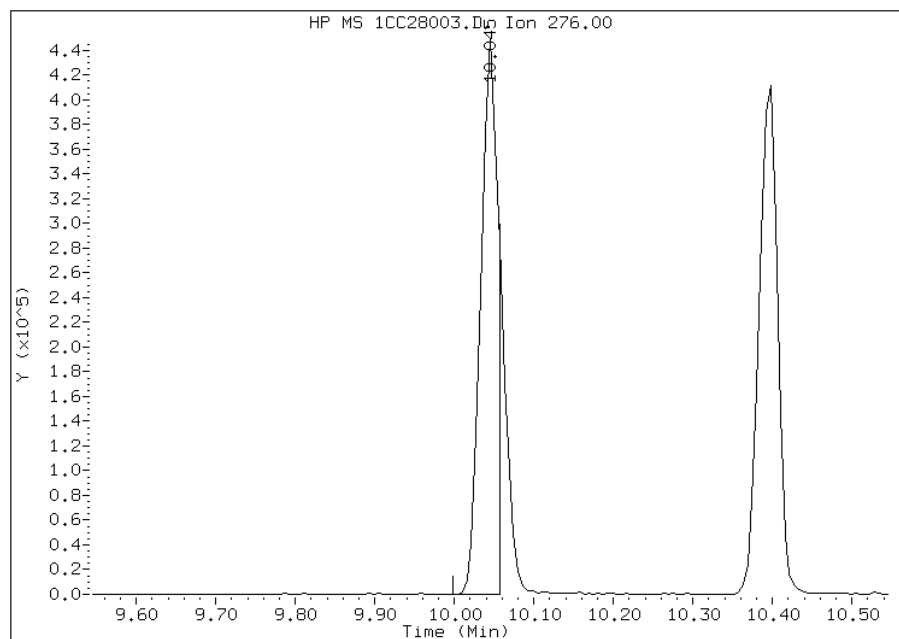
### Processing Integration Results

RT: 10.25  
Response: 122  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 10.05  
Response: 670883  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:17  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DB22010.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	2000	20.0	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	2000	20.0	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	2000	20.0	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	1000	20.0	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	2000	20.0	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	2000	20.0	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	500	20.0	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	200	20.0	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	1000	20.0	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	500	20.0	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	500	20.0	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	200	20.0	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	200	20.0	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	200	20.0	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	200	20.0	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	200	20.0	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	200	20.0	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	200	20.0	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	500	20.0	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16.9	20.0	-15.6	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH  
 Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:51  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
								( ug/l)	( ug/l)
=====	=====	=====	=====	=====	=====	=====		=====	=====
* 1 Naphthalene-d8		136	6.186	6.188 (1.000)		3227519		40.0000	
* 6 Acenaphthene-d10		164	7.861	7.856 (1.000)		1973397		40.0000	
* 9 Phenanthrene-d10		188	9.118	9.114 (1.000)		3226971		40.0000	
\$ 13 o-Terphenyl		230	9.424	9.431 (1.034)		842705		16.8872	17
* 17 Chrysene-d12		240	11.463	11.464 (1.000)		3262056		40.0000	
* 22 Perylene-d12		264	13.343	13.344 (1.000)		3389756		40.0000	
2 Naphthalene		128	6.204	6.205 (1.003)		1534495		17.7730	18
3 2-Methylnaphthalene		142	6.903	6.910 (1.116)		990529		18.0102	18
4 1-Methylnaphthalene		142	6.997	6.999 (1.131)		949525		18.4366	18
5 Acenaphthylene		152	7.732	7.733 (0.984)		1522763		17.5026	18
7 Acenaphthene		154	7.884	7.886 (1.003)		892518		16.8249	17
8 Fluorene		166	8.325	8.326 (1.059)		1091870		17.6166	18
10 Phenanthrene		178	9.136	9.137 (1.002)		1561459		17.0459	17
11 Anthracene		178	9.177	9.184 (1.006)		1600546		17.4635	17
12 Carbazole		167	9.324	9.313 (1.023)		1373599		16.7651	17(M)
14 Fluoranthene		202	10.117	10.124 (1.110)		1683952		17.6156	18
15 Pyrene		202	10.305	10.312 (0.899)		1697011		16.7712	17

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

#### QC Flag Legend

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

Data File: 1DB22010.D

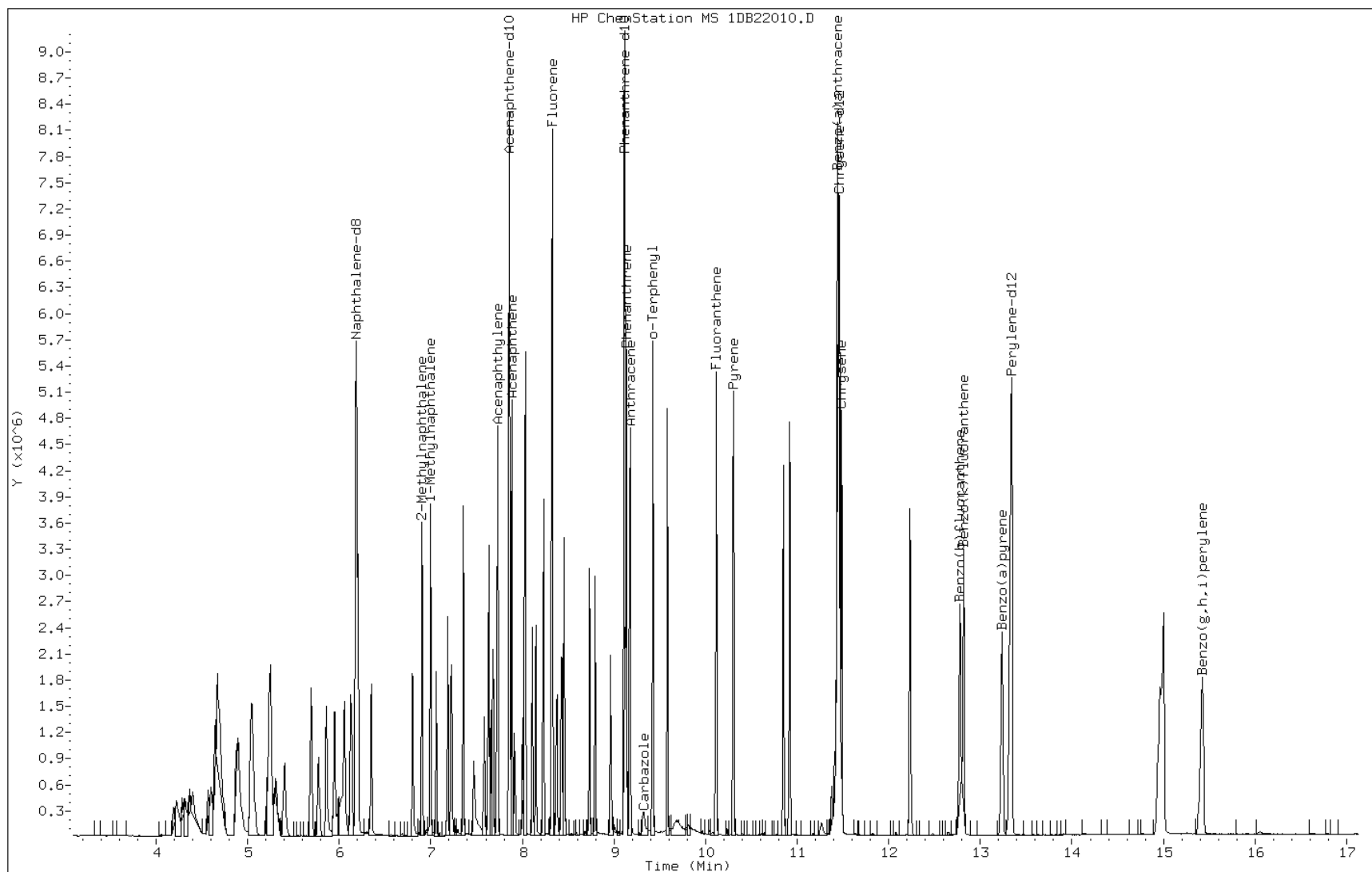
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

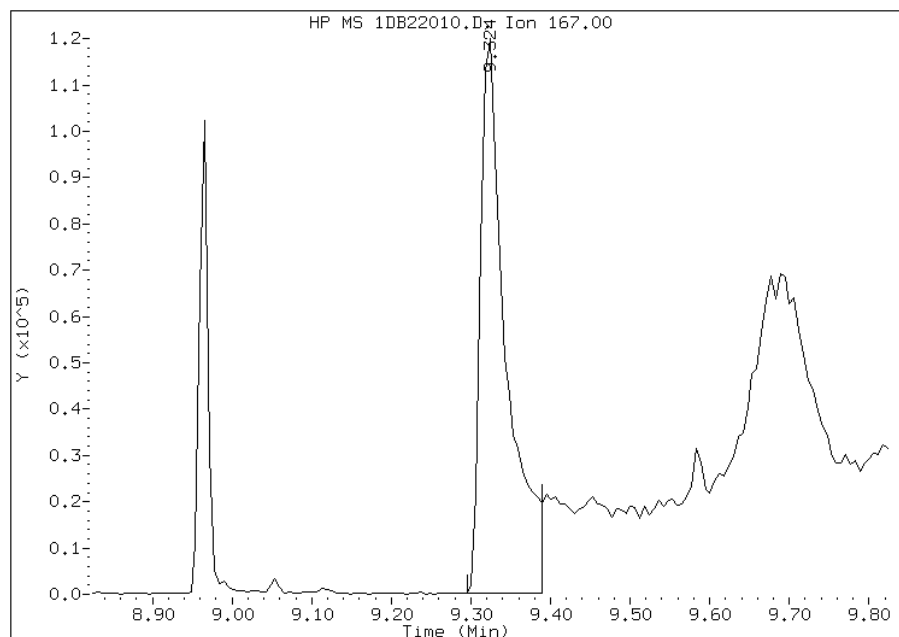


## Manual Integration Report

Data File: 1DB22010.D  
Inj. Date and Time: 22-FEB-2013 14:51  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 12 Carbazole  
CAS #: 86-74-8  
Report Date: 02/22/2013

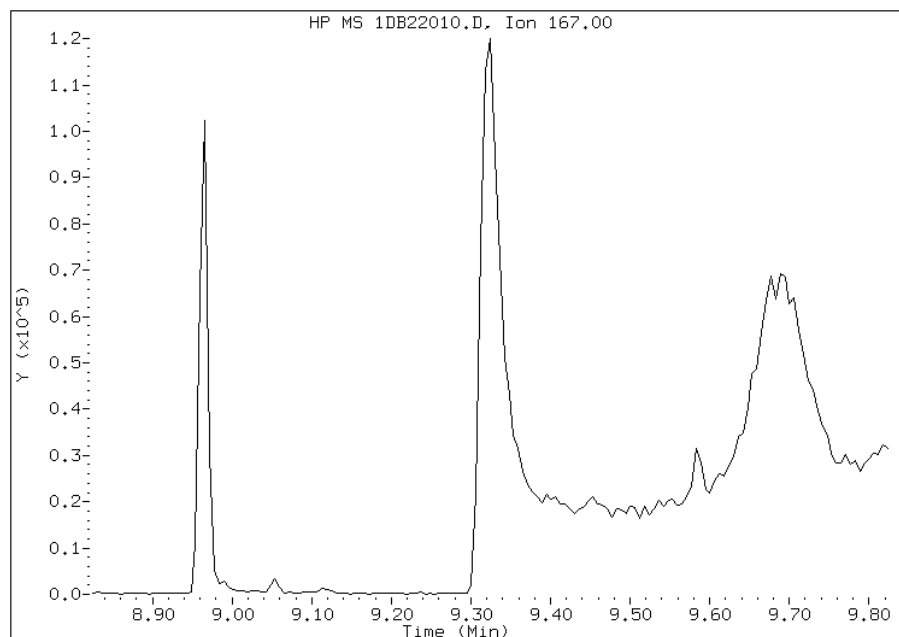
### Processing Integration Results

RT: 9.32  
Response: 270307  
Amount: 3  
Conc: 3



### Manual Integration Results

RT: 9.32  
Response: 1373599  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:27  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: CCVIS 660-135796/3 Calibration Date: 03/25/2013 10:32  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DC25003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.046	0.0000	2000	20.0	-2.2	20.0
2-Methylnaphthalene	Ave	0.6816	0.6576	0.0000	2000	20.0	-3.5	20.0
1-Methylnaphthalene	Ave	0.6383	0.6169	0.0000	2000	20.0	-3.3	20.0
Acenaphthylene	Ave	1.764	1.726	0.0000	1000	20.0	-2.1	20.0
Acenaphthene	Ave	1.075	1.028	0.0000	2000	20.0	-4.4	20.0
Fluorene	Ave	1.256	1.228	0.0000	2000	20.0	-2.3	20.0
Phenanthrene	Ave	1.135	1.099	0.0000	500	20.0	-3.2	20.0
Anthracene	Ave	1.136	1.108	0.0000	200	20.0	-2.5	20.0
Carbazole	Ave	1.016	0.9761	0.0000	1000	20.0	-3.9	20.0
Fluoranthene	Ave	1.185	1.182	0.0000	500	20.0	-0.3	20.0
Pyrene	Ave	1.241	1.198	0.0000	500	20.0	-3.4	20.0
Benzo[a]anthracene	LinF	1.184	1.043	0.0000	200	20.0	-4.7	20.0
Chrysene	Ave	1.131	1.067	0.0000	200	20.0	-5.7	20.0
Benzo[b]fluoranthene	Ave	1.030	1.006	0.0000	200	20.0	-2.3	20.0
Benzo[k]fluoranthene	Ave	1.078	1.024	0.0000	200	20.0	-5.0	20.0
Benzo[a]pyrene	Ave	1.019	1.011	0.0000	200	20.0	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.085	0.0000	200	20.0	-0.2	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.9927	0.0000	200	20.0	-1.1	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.022	0.0000	500	20.0	-1.4	20.0
o-Terphenyl	Ave	0.6186	0.6264	0.0000	20.3	20.0	1.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 25-MAR-2013 10:32  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\dFASTPAHi.m  
 Meth Date : 25-Mar-2013 10:50 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.125	6.125	(1.000)	2457604	40.0000	(H)
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1485609	40.0000	(H)
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2487153	40.0000	(H)
\$ 13 o-Terphenyl	230	9.374	9.374	(1.034)	778909	20.0000	20(H)
* 17 Chrysene-d12	240	11.407	11.407	(1.000)	2626654	40.0000	(H)
* 22 Perylene-d12	264	13.270	13.270	(1.000)	2769617	40.0000	(H)
2 Naphthalene	128	6.149	6.149	(1.004)	1285582	20.0000	20(H)
3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	808055	20.0000	19(H)
4 1-Methylnaphthalene	142	6.942	6.942	(1.133)	758057	20.0000	19(H)
5 Acenaphthylene	152	7.676	7.676	(0.984)	1281992	20.0000	20(H)
7 Acenaphthene	154	7.829	7.829	(1.004)	763507	20.0000	19(H)
8 Fluorene	166	8.275	8.275	(1.061)	911953	20.0000	20(H)
10 Phenanthrene	178	9.086	9.086	(1.003)	1366274	20.0000	19(H)
11 Anthracene	178	9.127	9.127	(1.007)	1377724	20.0000	20(H)
12 Carbazole	167	9.263	9.263	(1.022)	1213826	20.0000	19(H)
14 Fluoranthene	202	10.068	10.068	(1.111)	1469436	20.0000	20(H)
15 Pyrene	202	10.261	10.261	(0.900)	1573461	20.0000	19(H)
16 Benzo(a)anthracene	228	11.384	11.384	(0.998)	1370145	20.0000	19(H)
18 Chrysene	228	11.431	11.431	(1.002)	1400690	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.711	12.711	(0.958)	1393655	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.753	12.753	(0.961)	1417764	20.0000	19(H)
21 Benzo(a)pyrene	252	13.170	13.170	(0.992)	1399414	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.885	14.885	(1.122)	1502133	20.0000	20(MH)
24 Dibenzo(a,h)anthracene	278	14.915	14.915	(1.124)	1374723	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.344	15.344	(1.156)	1415852	20.0000	20(H)

QC Flag Legend

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



Data File: 1DC25003.D

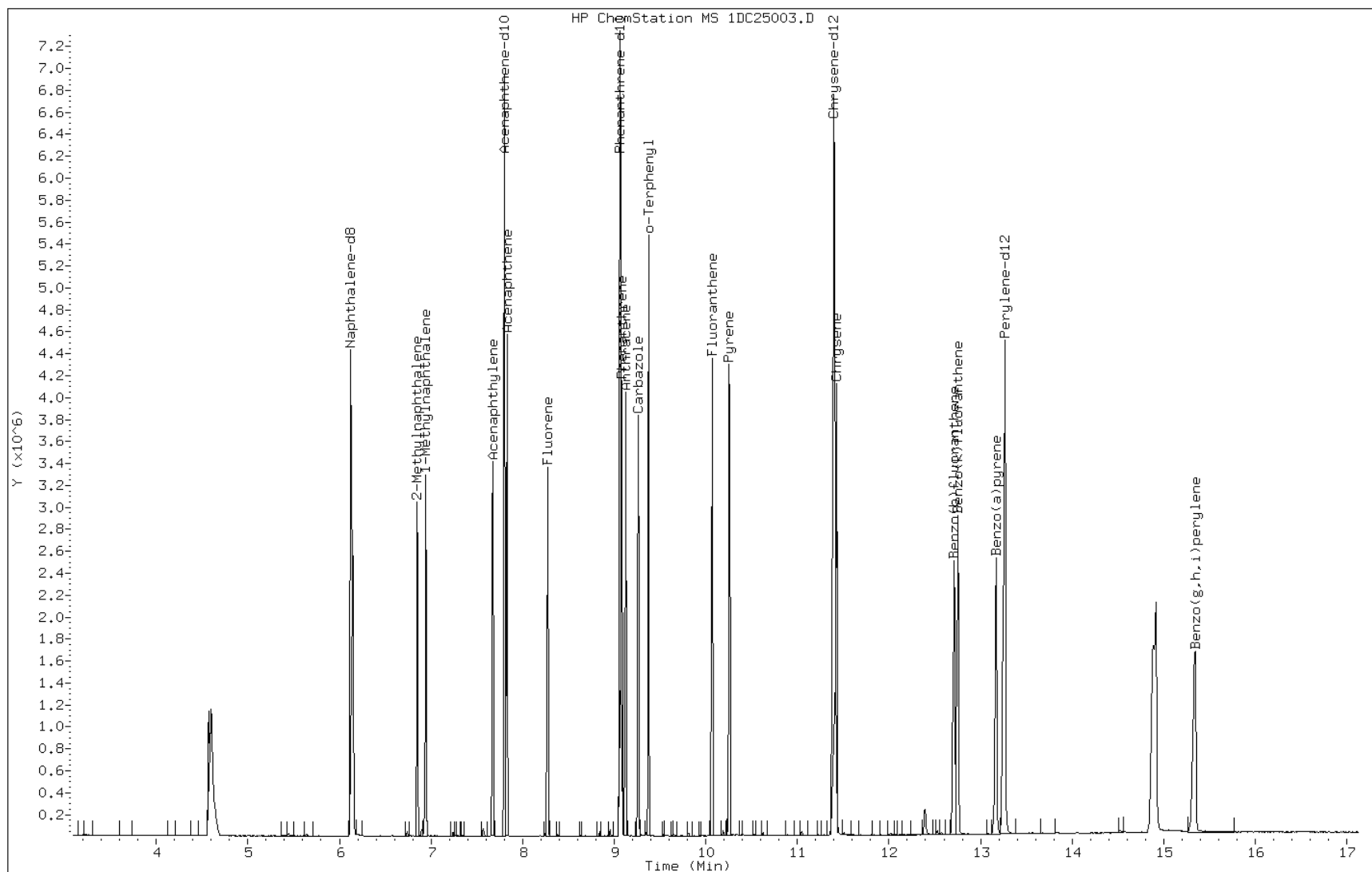
Date: 25-MAR-2013 10:32

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

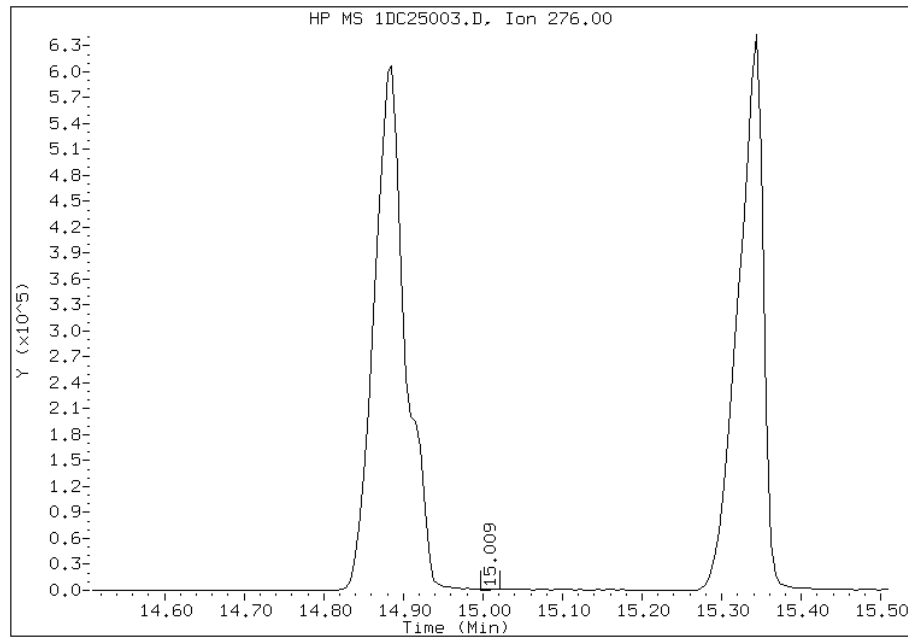


## Manual Integration Report

Data File: 1DC25003.D  
Inj. Date and Time: 25-MAR-2013 10:32  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

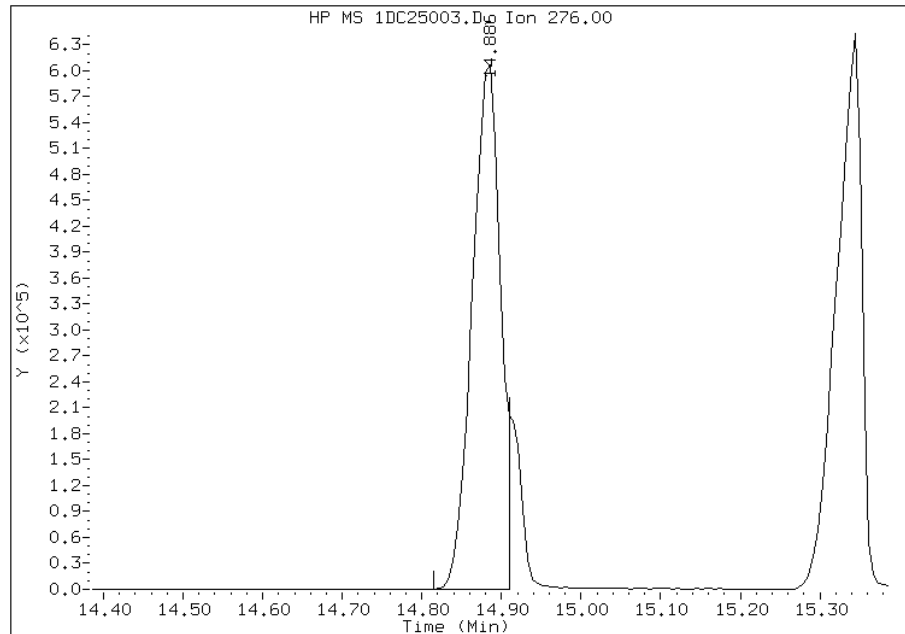
### Processing Integration Results

RT: 15.01  
Response: 1095  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 14.89  
Response: 1502133  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 25-Mar-2013 10:52  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Lab Sample ID: CCVIS 660-135792/3 Calibration Date: 03/26/2013 10:32  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DC26003.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.035	0.0000	2000	20.0	-3.2	20.0
2-Methylnaphthalene	Ave	0.6816	0.6731	0.0000	2000	20.0	-1.2	20.0
1-Methylnaphthalene	Ave	0.6383	0.6551	0.0000	2000	20.0	2.6	20.0
Acenaphthylene	Ave	1.764	1.708	0.0000	1000	20.0	-3.1	20.0
Acenaphthene	Ave	1.075	1.015	0.0000	2000	20.0	-5.6	20.0
Fluorene	Ave	1.256	1.193	0.0000	2000	20.0	-5.1	20.0
Phenanthrene	Ave	1.135	1.089	0.0000	500	20.0	-4.1	20.0
Anthracene	Ave	1.136	1.096	0.0000	200	20.0	-3.5	20.0
Carbazole	Ave	1.016	0.9537	0.0000	1000	20.0	-6.1	20.0
Fluoranthene	Ave	1.185	1.152	0.0000	500	20.0	-2.8	20.0
Pyrene	Ave	1.241	1.228	0.0000	500	20.0	-1.0	20.0
Benzo[a]anthracene	LinF	1.184	1.055	0.0000	200	20.0	-3.6	20.0
Chrysene	Ave	1.131	1.058	0.0000	200	20.0	-6.4	20.0
Benzo[b]fluoranthene	Ave	1.030	1.018	0.0000	200	20.0	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.078	1.095	0.0000	200	20.0	1.5	20.0
Benzo[a]pyrene	Ave	1.019	1.006	0.0000	200	20.0	-1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9164	0.0000	200	20.0	-15.7	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.8278	0.0000	200	20.0	-17.6	20.0
Benzo[g,h,i]perylene	Ave	1.037	0.8327	0.0000	500	20.0	-19.7	20.0
o-Terphenyl	Ave	0.6186	0.6201	0.0000	20.0	20.0	0.2	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26003.D  
Lab Smp Id: CCVIS-1512372  
Inj Date : 26-MAR-2013 10:32  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : CCVIS-1512372  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	ON-COL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.126	6.126	(1.000)	2497630	40.0000	(H)
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1612962	40.0000	(H)
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2599869	40.0000	(H)
\$ 13 o-Terphenyl	230	9.375	9.375	(1.034)	806068	20.0000	20(H)
* 17 Chrysene-d12	240	11.402	11.402	(1.000)	2607802	40.0000	(H)
* 22 Perylene-d12	264	13.270	13.270	(1.000)	2561814	40.0000	(H)
2 Naphthalene	128	6.149	6.149	(1.004)	1292910	20.0000	19(H)
3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	840608	20.0000	20(H)
4 1-Methylnaphthalene	142	6.942	6.942	(1.133)	818082	20.0000	20(H)
5 Acenaphthylene	152	7.677	7.677	(0.984)	1377526	20.0000	19(H)
7 Acenaphthene	154	7.829	7.829	(1.004)	818640	20.0000	19(H)
8 Fluorene	166	8.270	8.270	(1.060)	961936	20.0000	19(H)
10 Phenanthrene	178	9.087	9.087	(1.003)	1415558	20.0000	19(H)
11 Anthracene	178	9.128	9.128	(1.007)	1425288	20.0000	19(H)
12 Carbazole	167	9.269	9.269	(1.023)	1239804	20.0000	19
14 Fluoranthene	202	10.068	10.068	(1.111)	1497661	20.0000	19(H)
15 Pyrene	202	10.256	10.256	(0.900)	1601221	20.0000	20(H)
16 Benzo(a)anthracene	228	11.384	11.384	(0.998)	1375959	20.0000	19(H)
18 Chrysene	228	11.431	11.431	(1.003)	1380061	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.712	12.712	(0.958)	1303865	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.753	12.753	(0.961)	1401959	20.0000	20(H)
21 Benzo(a)pyrene	252	13.170	13.170	(0.992)	1289065	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.886	14.886	(1.122)	1173782	20.0000	17(MH)
24 Dibenzo(a,h)anthracene	278	14.915	14.915	(1.124)	1060311	20.0000	16(H)
25 Benzo(g,h,i)perylene	276	15.344	15.344	(1.156)	1066553	20.0000	16(H)

QC Flag Legend

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

Data File: 1DC26003.D

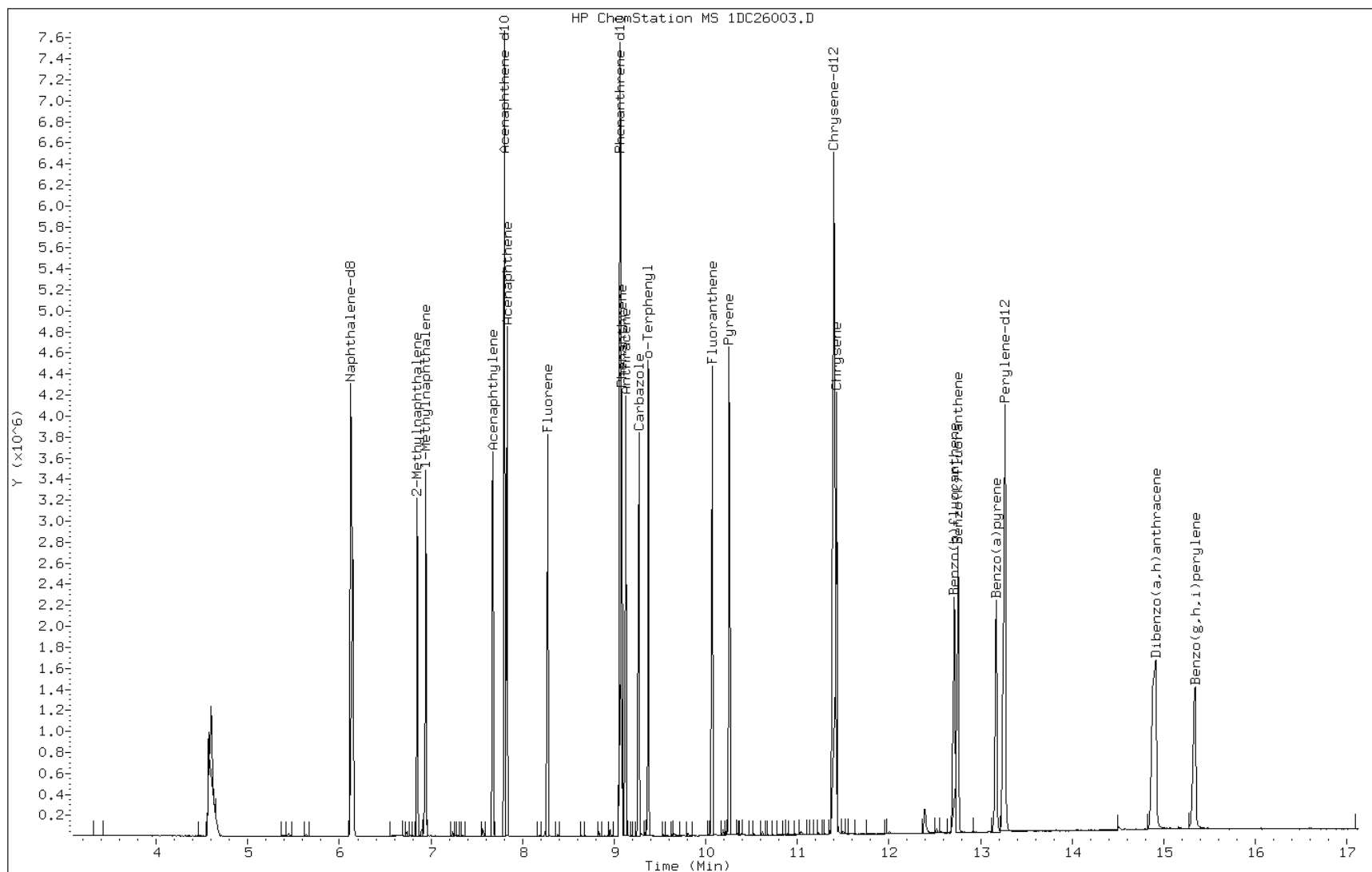
Date: 26-MAR-2013 10:32

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

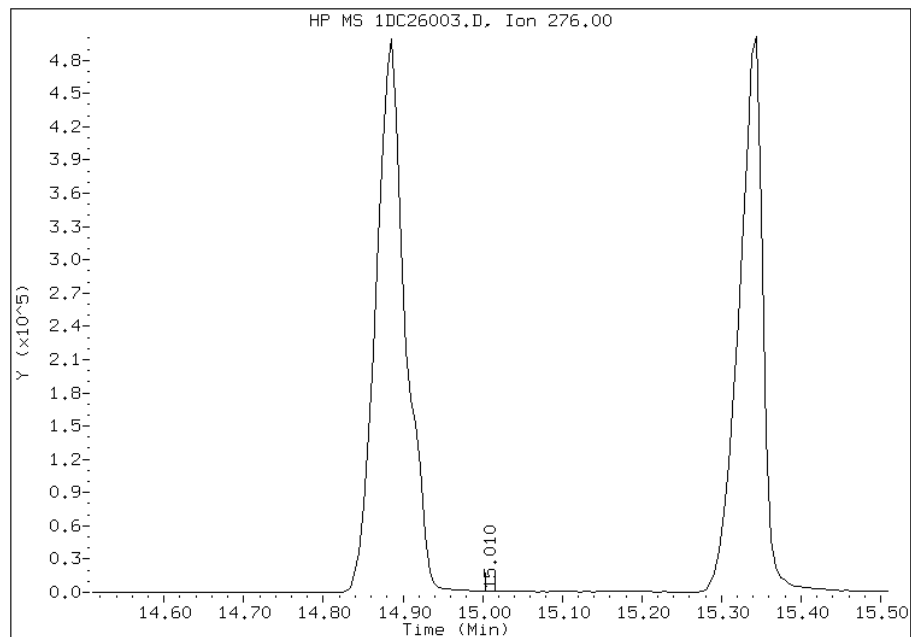


## Manual Integration Report

Data File: 1DC26003.D  
Inj. Date and Time: 26-MAR-2013 10:32  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

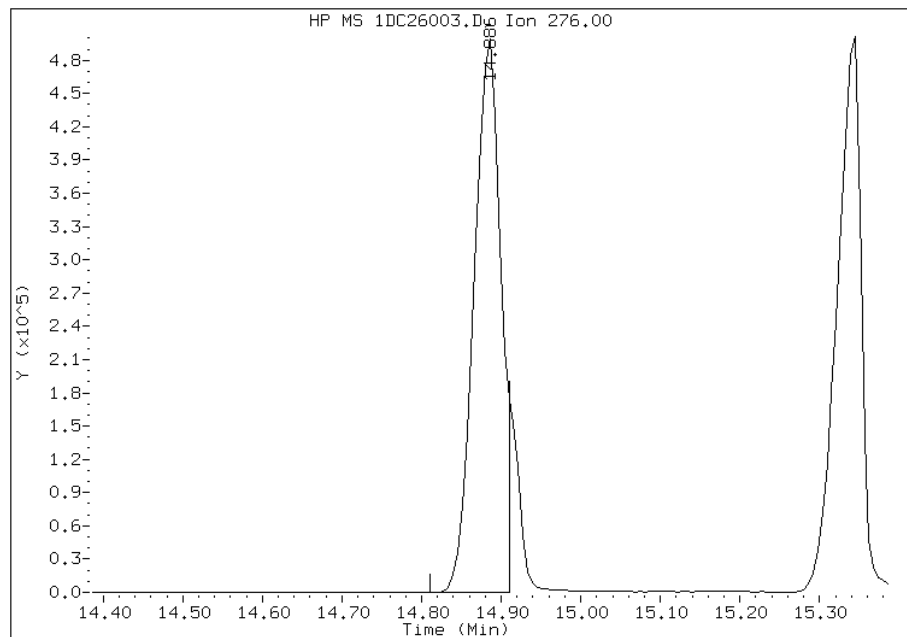
### Processing Integration Results

RT: 15.01  
Response: 250  
Amount: 0  
Conc: 0



### Manual Integration Results

RT: 14.89  
Response: 1173782  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 10:52  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 15-MAR-2013 12:38  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1465456  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\a-dftpp198.m  
 Meth Date : 09-Jan-2013 15:25 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				
4.576	4.928	-0.352	198	29405		50.00-	0.00	100.00
4.576	4.928	-0.352	51	21805		10.00-	80.00	74.15
4.576	4.928	-0.352	68	259		0.00-	2.00	1.46
4.576	4.928	-0.352	69	17703		0.00-	0.00	60.20
4.576	4.928	-0.352	70	119		0.00-	2.00	0.67
4.576	4.928	-0.352	127	14373		10.00-	80.00	48.88
4.576	4.928	-0.352	197	110		0.00-	2.00	0.37
4.576	4.928	-0.352	442	16982		50.00-	0.00	57.75
4.576	4.928	-0.352	199	1936		5.00-	9.00	6.58
4.576	4.928	-0.352	275	7091		10.00-	60.00	24.11
4.576	4.928	-0.352	365	1588		1.00-	0.00	5.40
4.576	4.928	-0.352	441	2270		0.01-	99.99	66.76
4.576	4.928	-0.352	443	3400		15.00-	24.00	20.02

Data File: 1AC15002.D

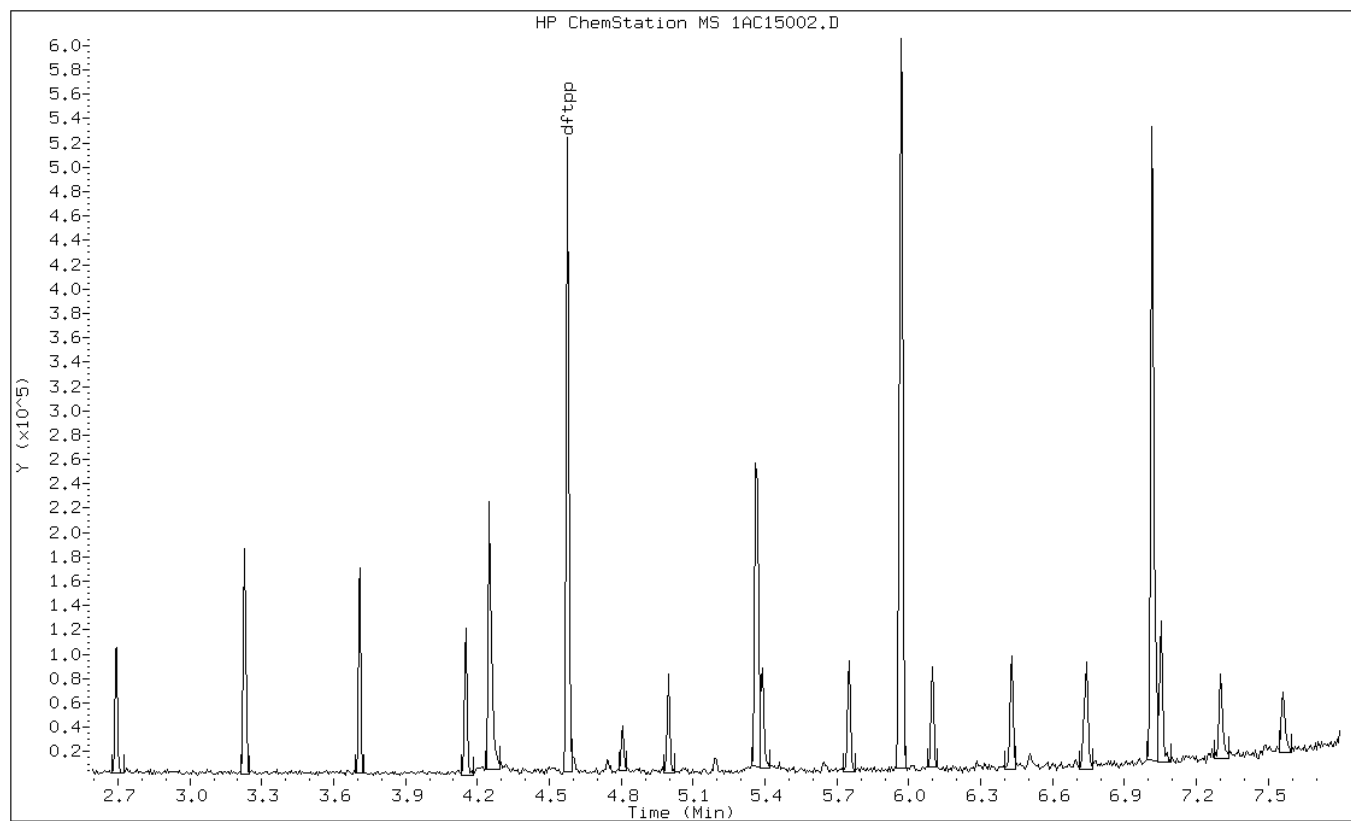
Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC





Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

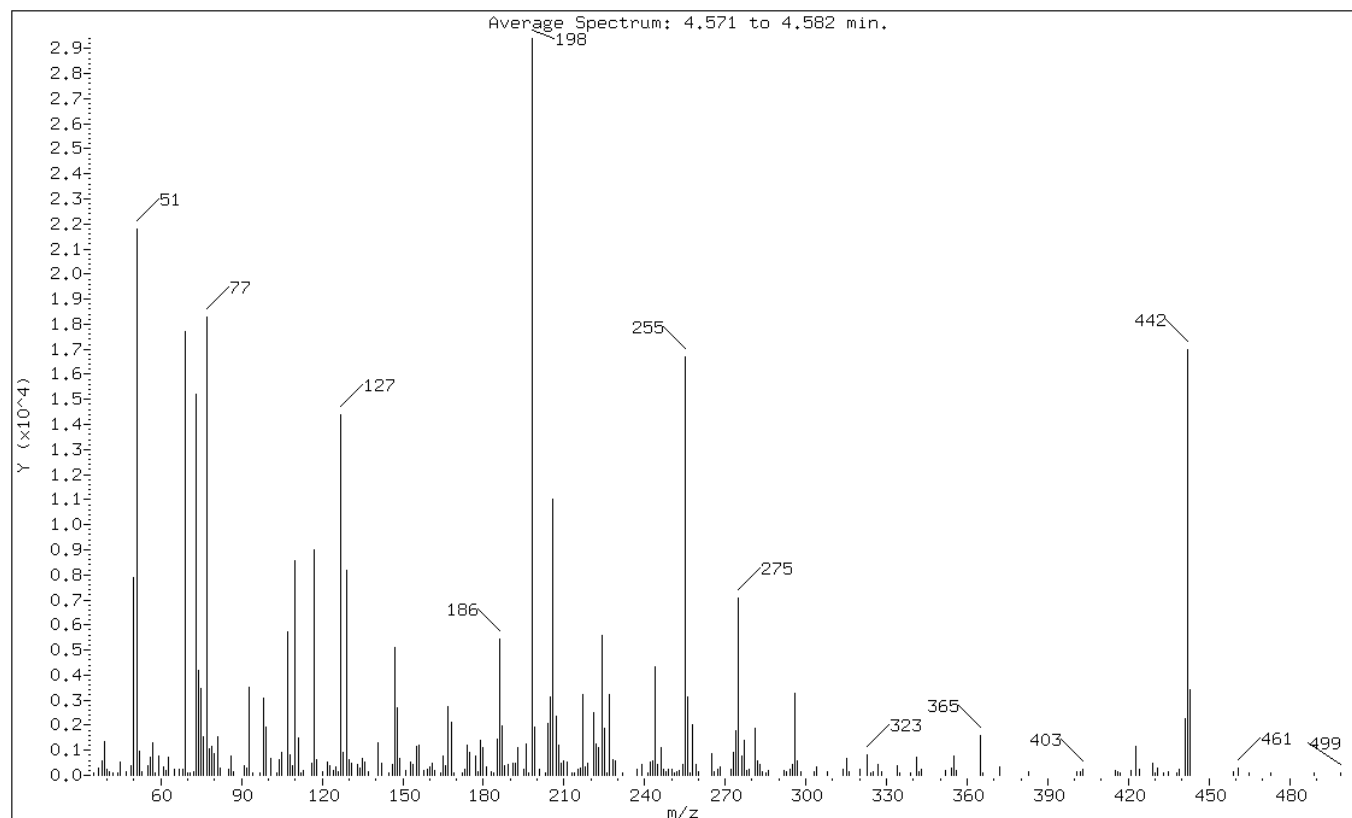
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	74.15
68	Less than 2.00% of mass 69	0.88 ( 1.46)
69	Mass 69 relative abundance	60.20
70	Less than 2.00% of mass 69	0.40 ( 0.67)
127	10.00 - 80.00% of mass 198	48.88
197	Less than 2.00% of mass 198	0.37
442	Greater than 50.00% of mass 198	57.75
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.11
365	Greater than 1.00% of mass 198	5.40
441	Present, but less than mass 443	7.72
443	15.00 - 24.00% of mass 442	11.56 ( 20.02)

Data File: 1AC15002.D

Date: 15-MAR-2013 12:38

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A031513.b\1AC15002.D

Spectrum: Average Spectrum: 4.571 to 4.582 min.

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	85	120.00	163	203.00	115	285.00	106
37.00	306	122.00	547	204.00	2072	286.00	202
38.00	562	123.00	402	205.00	3135	292.00	179
39.00	1366	124.00	186	206.00	11017	293.00	164
40.00	219	125.00	359	207.00	2371	294.00	253
41.00	145	126.00	125	208.00	1184	295.00	431
42.00	104	127.00	14373	209.00	493	296.00	3259
44.00	111	128.00	931	210.00	592	297.00	601
45.00	514	129.00	8181	211.00	507	298.00	158
47.00	153	130.00	641	213.00	103	303.00	163
49.00	409	131.00	484	214.00	106	304.00	353
50.00	7874	133.00	441	215.00	246	308.00	126
51.00	21800	134.00	297	216.00	266	314.00	232
52.00	976	135.00	686	217.00	3206	315.00	691
53.00	134	136.00	518	218.00	342	316.00	143
55.00	389	137.00	163	219.00	478	320.00	252
56.00	727	141.00	1291	221.00	2523	323.00	809
57.00	1307	142.00	492	222.00	1268	324.00	92
58.00	107	145.00	94	223.00	1098	325.00	126
59.00	793	146.00	454	224.00	5572	327.00	416
61.00	323	147.00	5081	225.00	1855	328.00	128
62.00	191	148.00	2688	226.00	100	334.00	404
63.00	726	149.00	664	227.00	3220	335.00	101
65.00	254	151.00	171	228.00	620	339.00	85
67.00	256	153.00	543	229.00	562	341.00	733
68.00	259	154.00	417	232.00	90	342.00	128
69.00	17696	155.00	1172	237.00	244	343.00	219
70.00	119	156.00	1192	239.00	420	352.00	194
71.00	92	158.00	173	241.00	115	354.00	273
72.00	145	159.00	247	242.00	506	355.00	787
73.00	15202	160.00	320	243.00	600	356.00	190
74.00	4191	161.00	504	244.00	4329	365.00	1588
75.00	3459	162.00	191	245.00	453	366.00	94
76.00	1521	164.00	88	246.00	1109	372.00	337
77.00	18264	165.00	792	247.00	251	383.00	164
78.00	1070	166.00	404	248.00	162	401.00	168
79.00	1167	167.00	2720	249.00	262	402.00	137
80.00	889	168.00	2122	250.00	238	403.00	222
81.00	1552	169.00	104	251.00	92	415.00	211
82.00	281	172.00	102	252.00	132	416.00	144

85.00	253	173.00	241	253.00	172	417.00	97
86.00	792	174.00	1204	254.00	453	421.00	203
87.00	130	175.00	896	255.00	16688	423.00	1165
91.00	363	177.00	758	256.00	3108	424.00	230
92.00	278	178.00	124	257.00	112	429.00	472
93.00	3505	179.00	1405	258.00	2025	430.00	101
94.00	96	180.00	1111	259.00	447	431.00	293
97.00	99	181.00	330	260.00	168	433.00	113
98.00	3092	183.00	122	265.00	881	435.00	131
99.00	1912	184.00	107	266.00	161	438.00	91
101.00	693	185.00	1466	267.00	245	439.00	239
103.00	85	186.00	5418	268.00	325	441.00	2270
104.00	611	187.00	1965	272.00	255	442.00	16976
105.00	929	188.00	394	273.00	917	443.00	3400
107.00	5742	189.00	415	274.00	1773	459.00	158
108.00	799	191.00	472	275.00	7091	461.00	289
109.00	402	192.00	486	276.00	776	465.00	98
110.00	8543	193.00	1108	277.00	1382	473.00	97
111.00	1505	195.00	248	278.00	211	489.00	118
112.00	112	196.00	1229	279.00	247	499.00	87
113.00	202	197.00	110	281.00	1864		
116.00	464	198.00	29400	282.00	600		
117.00	9017	199.00	1936	283.00	454		
118.00	642	201.00	258	284.00	163		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D  
Lab Smp Id: DFTPP Client Smp ID: DFTPP  
Inj Date : 26-MAR-2013 11:15  
Operator : SCC Inst ID: BSMA5973.i  
Smp Info : DFTPP-1465456  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\a-dftpp198.m  
Meth Date : 09-Jan-2013 15:25 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				
4.535	4.928	-0.393	198	28485		50.00-	0.00	100.00
4.535	4.928	-0.393	51	20973		10.00-	80.00	73.63
4.535	4.928	-0.393	68	225		0.00-	2.00	1.38
4.535	4.928	-0.393	69	16361		0.00-	0.00	57.44
4.535	4.928	-0.393	70	0	0.0	0.0	0.00-	2.00
4.535	4.928	-0.393	127	14748		10.00-	80.00	51.77
4.535	4.928	-0.393	197	0	0.0	0.0	0.00-	2.00
4.535	4.928	-0.393	442	18562		50.00-	0.00	65.16
4.535	4.928	-0.393	199	1996		5.00-	9.00	7.01
4.535	4.928	-0.393	275	7801		10.00-	60.00	27.39
4.535	4.928	-0.393	365	2061		1.00-	0.00	7.24
4.535	4.928	-0.393	441	3128		0.01-	99.99	88.26
4.535	4.928	-0.393	443	3544		15.00-	24.00	19.09

Data File: 1AC26002.D

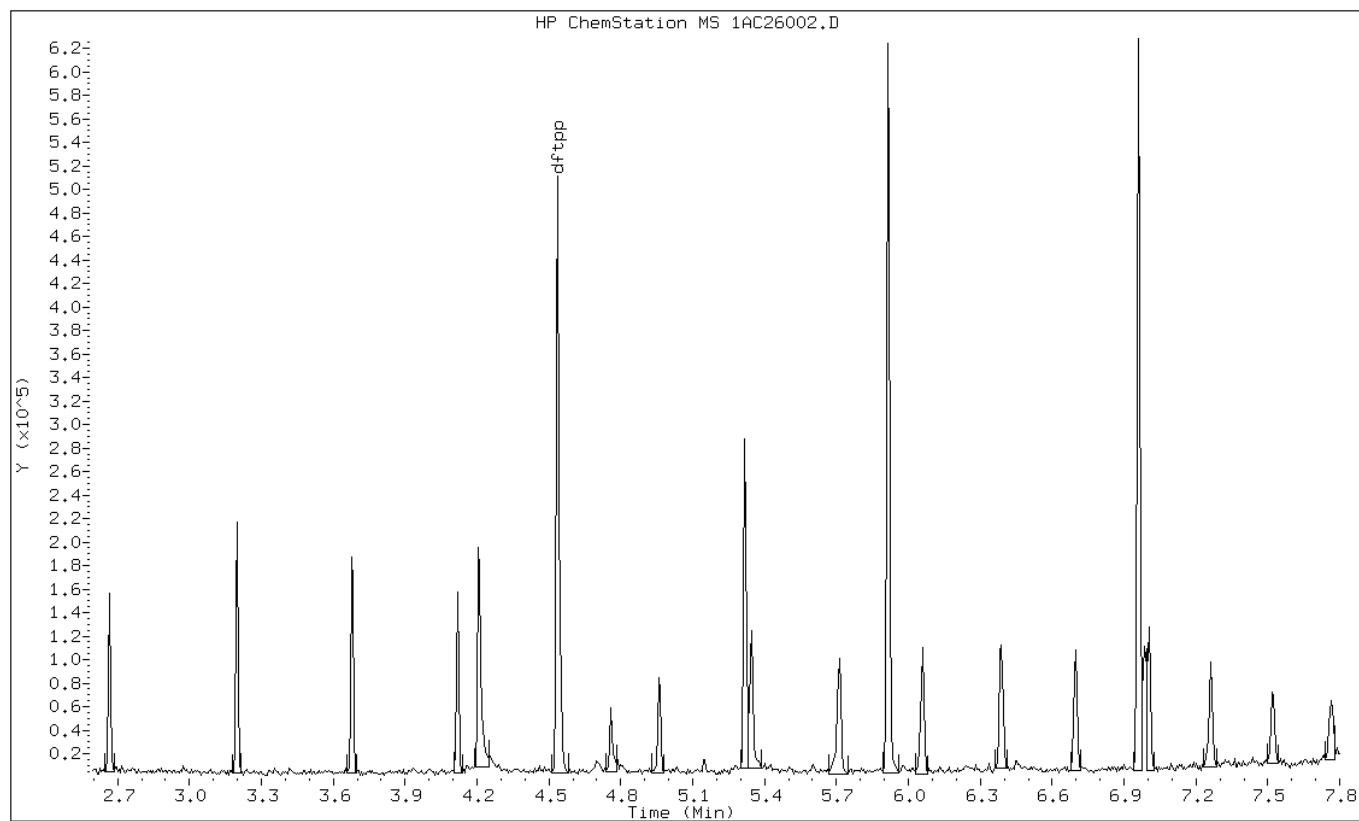
Date: 26-MAR-2013 11:15

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

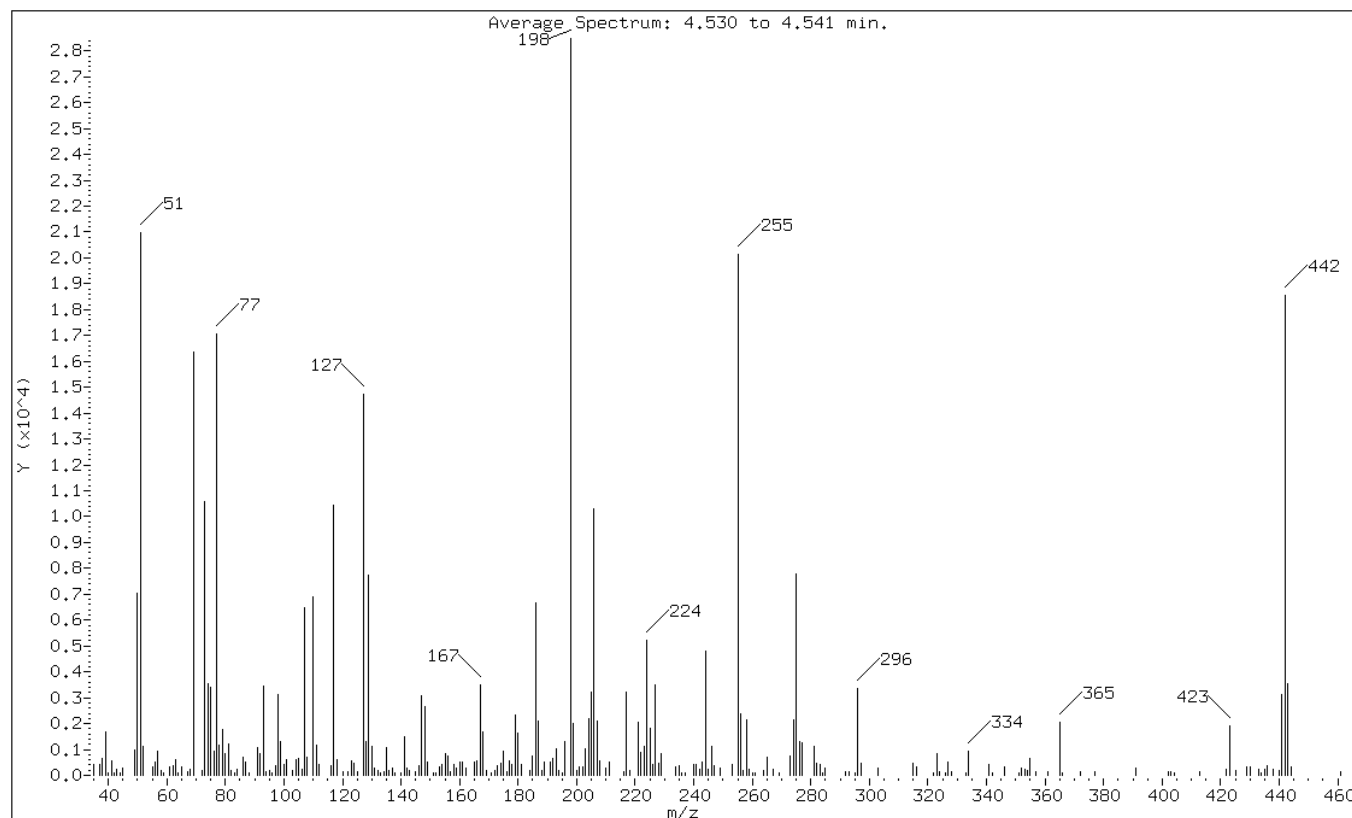
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	73.63
68	Less than 2.00% of mass 69	0.79 ( 1.38 )
69	Mass 69 relative abundance	57.44
70	Less than 2.00% of mass 69	0.00 ( 0.00 )
127	10.00 - 80.00% of mass 198	51.77
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	65.16
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 60.00% of mass 198	27.39
365	Greater than 1.00% of mass 198	7.24
441	Present, but less than mass 443	10.98
443	15.00 - 24.00% of mass 442	12.44 ( 19.09 )

Data File: 1AC26002.D

Date: 26-MAR-2013 11:15

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A032613.b\1AC26002.D

Spectrum: Average Spectrum: 4.530 to 4.541 min.

Location of Maximum: 198.00

Number of points: 243

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	424	111.00	1185	186.00	6650	274.00	2167
37.00	434	112.00	435	187.00	2114	275.00	7801
38.00	642	116.00	367	188.00	209	276.00	1288
39.00	1668	117.00	10457	189.00	521	277.00	1266
40.00	94	118.00	629	191.00	503	281.00	1099
41.00	555	120.00	153	192.00	673	282.00	468
42.00	90	122.00	132	193.00	1030	283.00	405
43.00	253	123.00	577	194.00	187	284.00	94
44.00	116	124.00	448	195.00	89	285.00	289
45.00	291	125.00	155	196.00	1314	292.00	140
49.00	986	127.00	14748	198.00	28480	293.00	131
50.00	7045	128.00	1316	199.00	1996	295.00	104
51.00	20968	129.00	7751	200.00	175	296.00	3339
52.00	1132	130.00	1104	201.00	307	297.00	460
55.00	330	131.00	291	202.00	321	303.00	299
56.00	516	132.00	172	203.00	1042	315.00	484
57.00	926	133.00	100	204.00	2195	316.00	310
58.00	192	134.00	118	205.00	3219	322.00	98
59.00	94	135.00	1052	206.00	10298	323.00	817
61.00	334	136.00	190	207.00	2096	324.00	123
62.00	375	137.00	283	208.00	569	326.00	85
63.00	600	138.00	111	210.00	276	327.00	507
64.00	95	140.00	105	211.00	525	328.00	134
65.00	329	141.00	1493	216.00	150	333.00	114
67.00	137	142.00	286	217.00	3211	334.00	916
68.00	225	143.00	184	218.00	208	341.00	423
69.00	16361	145.00	132	221.00	2055	342.00	89
72.00	187	146.00	394	222.00	872	346.00	335
73.00	10567	147.00	3094	223.00	1098	351.00	104
74.00	3538	148.00	2655	224.00	5212	352.00	269
75.00	3416	149.00	499	225.00	1837	353.00	231
76.00	945	151.00	101	226.00	397	354.00	209
77.00	17048	152.00	94	227.00	3491	355.00	672
78.00	1182	153.00	318	228.00	456	357.00	133
79.00	1752	154.00	412	229.00	850	361.00	128
80.00	819	155.00	825	234.00	321	365.00	2061
81.00	1219	156.00	755	235.00	364	366.00	112
82.00	168	157.00	151	236.00	101	372.00	162
83.00	88	158.00	408	237.00	85	377.00	132
84.00	220	159.00	274	240.00	412	391.00	268

86.00	692	160.00	533	241.00	416	402.00	121
87.00	522	161.00	505	242.00	230	403.00	143
88.00	90	162.00	289	243.00	536	404.00	86
91.00	1049	165.00	492	244.00	4824	413.00	144
92.00	843	166.00	549	245.00	237	422.00	216
+-----+							
93.00	3444	167.00	3509	246.00	1125	423.00	1897
94.00	133	168.00	1685	247.00	372	425.00	208
95.00	205	169.00	206	249.00	297	429.00	323
96.00	99	171.00	91	253.00	422	430.00	317
97.00	363	172.00	169	255.00	20128	433.00	237
+-----+							
98.00	3137	173.00	357	256.00	2357	434.00	107
99.00	1296	174.00	460	257.00	179	435.00	210
100.00	413	175.00	916	258.00	2137	436.00	366
101.00	617	176.00	143	259.00	251	438.00	243
103.00	201	177.00	572	260.00	84	440.00	197
+-----+							
104.00	616	178.00	425	261.00	87	441.00	3128
105.00	664	179.00	2330	264.00	175	442.00	18560
106.00	242	180.00	1614	265.00	707	443.00	3544
107.00	6481	181.00	408	267.00	239	444.00	339
108.00	690	184.00	170	269.00	94	461.00	155
+-----+							
110.00	6904	185.00	757	273.00	734		
+-----+							



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-FEB-2013 11:41  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.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				
7.404	7.469	-0.065	198	73440		50.00-	0.00	100.00
7.404	7.469	-0.065	51	31096		10.00-	80.00	42.34
7.404	7.469	-0.065	68	471		0.00-	2.00	1.08
7.404	7.469	-0.065	69	43512		0.00-	0.00	59.25
7.404	7.469	-0.065	70	192		0.00-	2.00	0.44
7.404	7.469	-0.065	127	39368		10.00-	80.00	53.61
7.404	7.469	-0.065	197	733		0.00-	2.00	1.00
7.404	7.469	-0.065	442	38240		50.00-	0.00	52.07
7.404	7.469	-0.065	199	6330		5.00-	9.00	8.62
7.404	7.469	-0.065	275	14104		10.00-	60.00	19.20
7.404	7.469	-0.065	365	1462		1.00-	0.00	1.99
7.404	7.469	-0.065	441	5496		0.01-	99.99	86.06
7.404	7.469	-0.065	443	6386		15.00-	24.00	16.70

Data File: 1CB22002.D

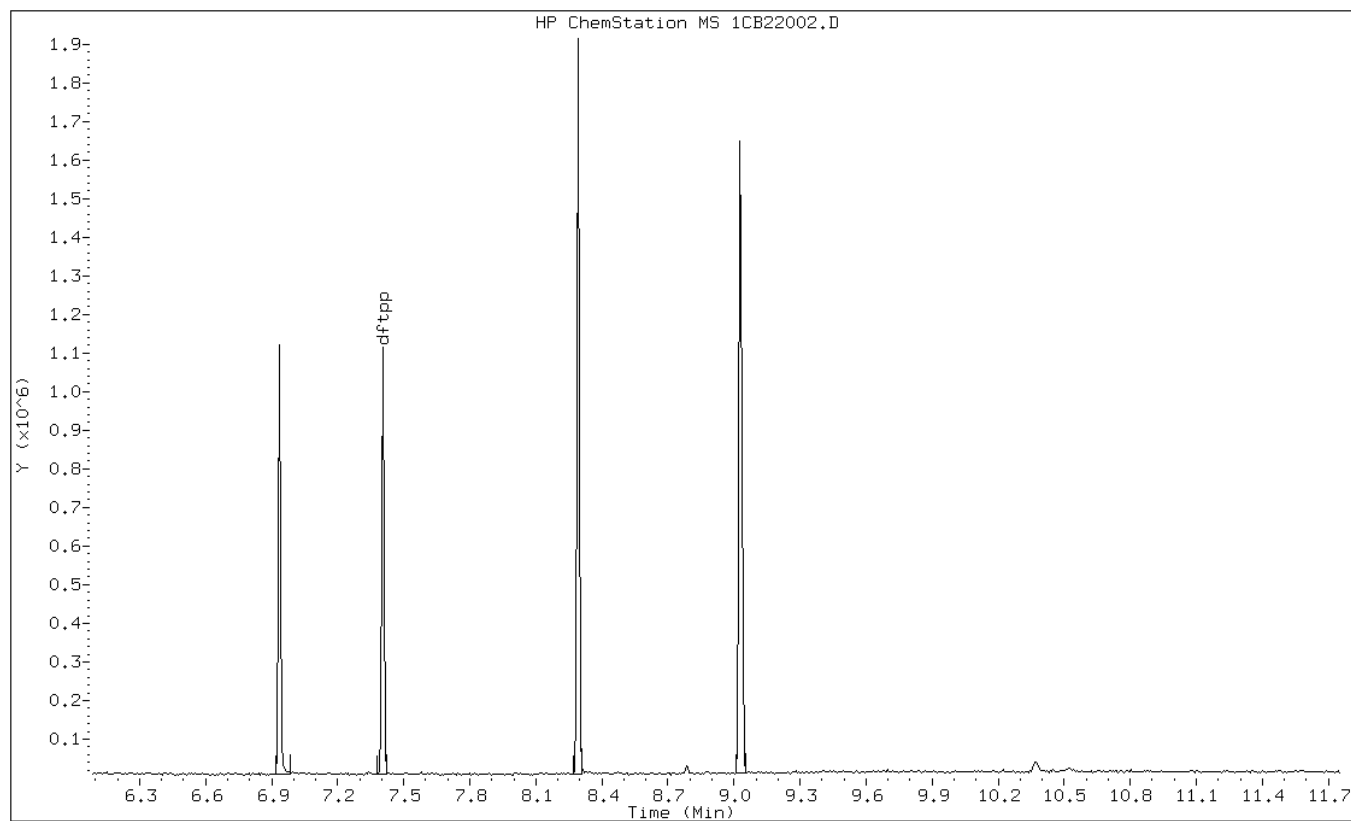
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

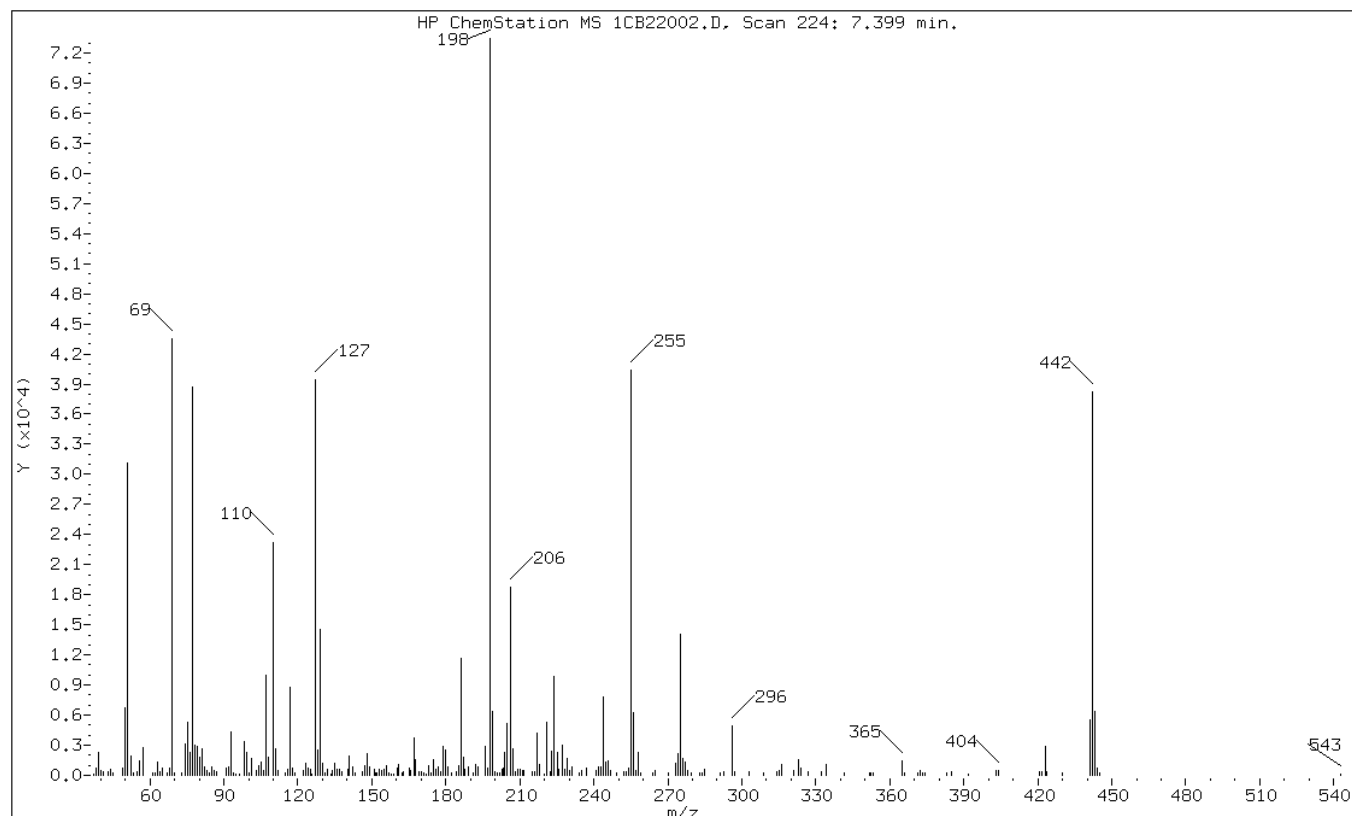
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

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	42.34
68	Less than 2.00% of mass 69	0.64 ( 1.08 )
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 ( 0.44 )
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 ( 16.70 )

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213\_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
+-----+							
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
+-----+							
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
+-----+							
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D  
Lab Smp Id: DFTPP Client Smp ID: DFTPP  
Inj Date : 27-MAR-2013 10:18  
Operator : SCC Inst ID: BSMC5973.i  
Smp Info : DFTPP-1490607  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.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				
7.322	7.469	-0.147	198	111740		50.00-	0.00	100.00
7.322	7.469	-0.147	51	43188		10.00-	80.00	38.65
7.322	7.469	-0.147	68	1108		0.00-	2.00	1.99
7.322	7.469	-0.147	69	55704		0.00-	0.00	49.85
7.322	7.469	-0.147	70	455		0.00-	2.00	0.82
7.322	7.469	-0.147	127	53208		10.00-	80.00	47.62
7.322	7.469	-0.147	197	1183		0.00-	2.00	1.06
7.322	7.469	-0.147	442	61668		50.00-	0.00	55.19
7.322	7.469	-0.147	199	6945		5.00-	9.00	6.22
7.322	7.469	-0.147	275	20541		10.00-	60.00	18.38
7.322	7.469	-0.147	365	2993		1.00-	0.00	2.68
7.322	7.469	-0.147	441	9207		0.01-	99.99	68.06
7.322	7.469	-0.147	443	13528		15.00-	24.00	21.94

Data File: 1CC27002.D

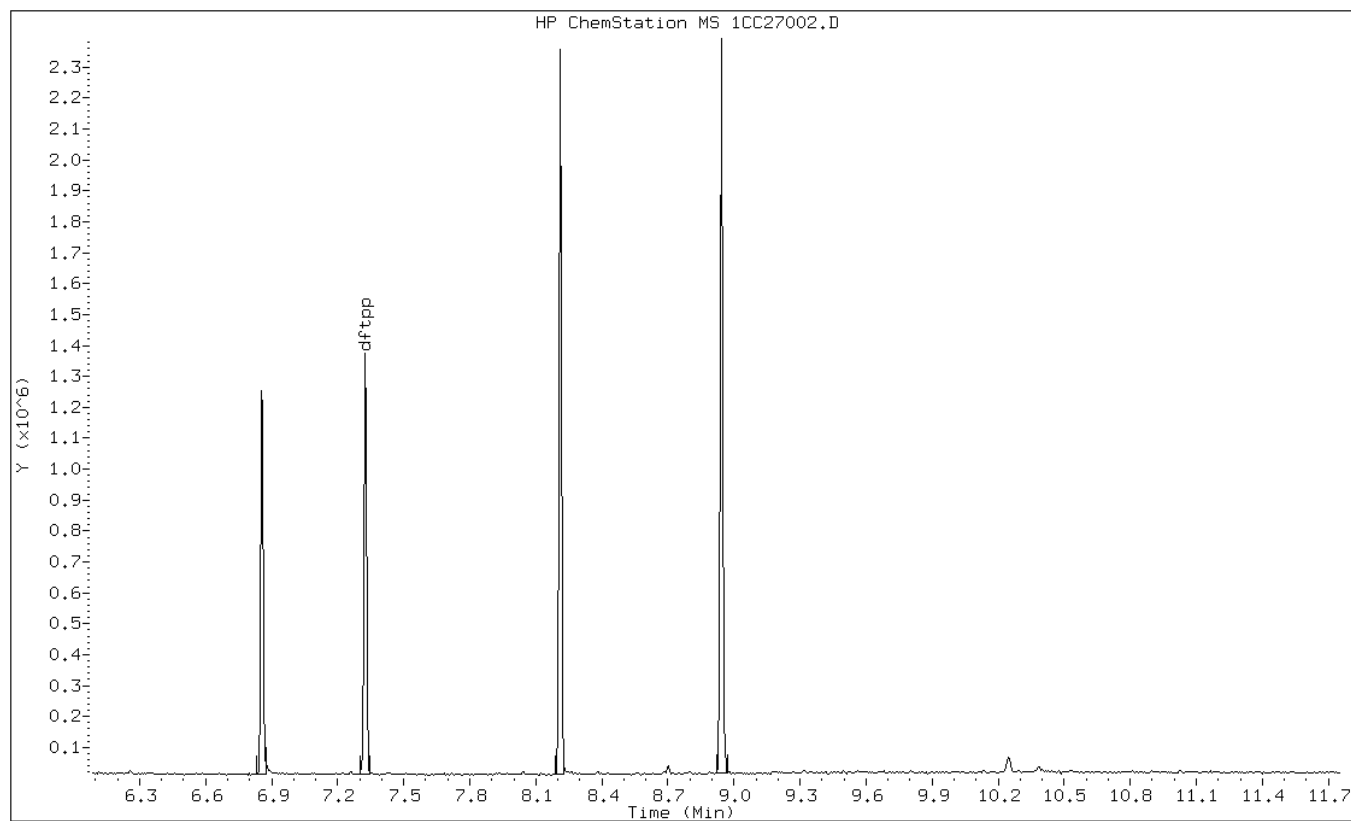
Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

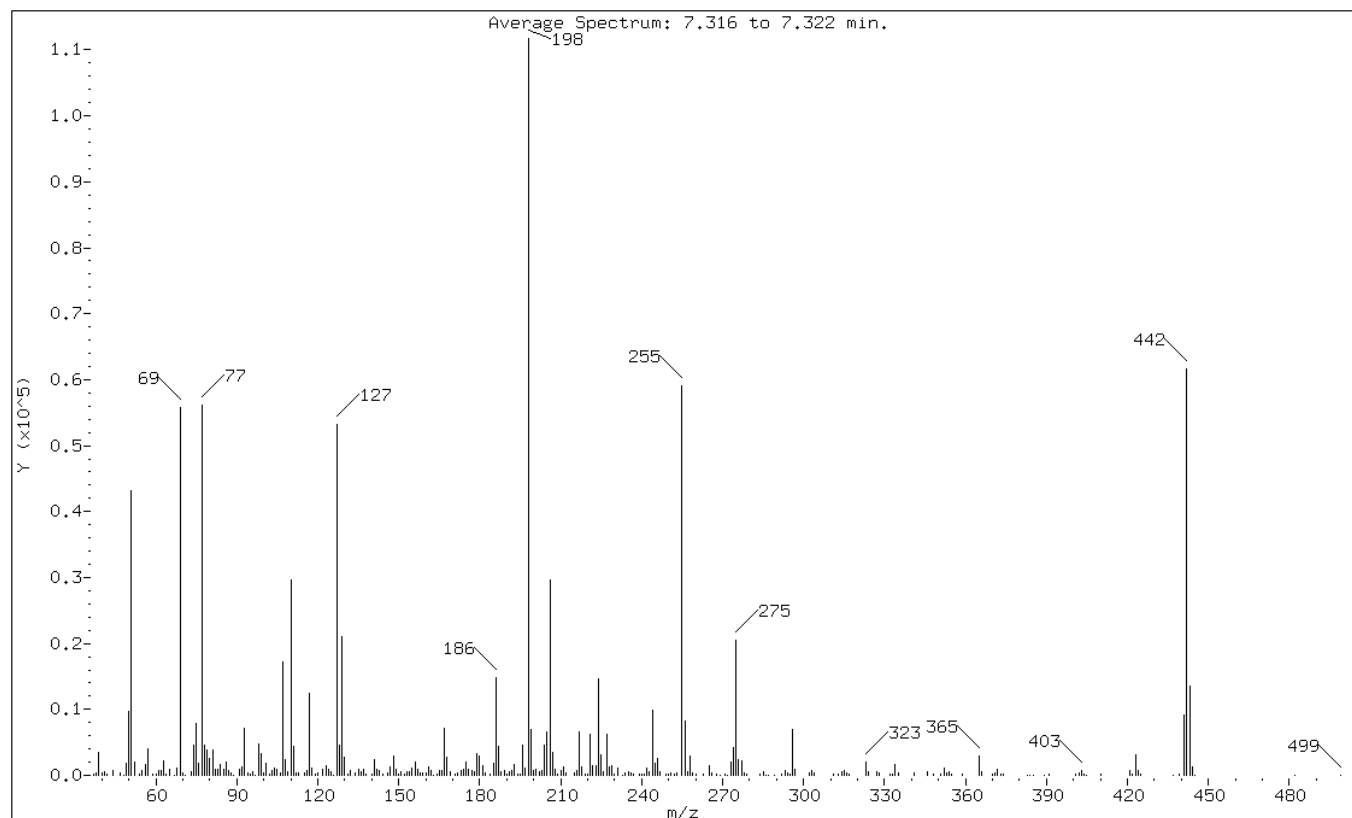
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

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	38.65
68	Less than 2.00% of mass 69	0.99 ( 1.99 )
69	Mass 69 relative abundance	49.85
70	Less than 2.00% of mass 69	0.41 ( 0.82 )
127	10.00 - 80.00% of mass 198	47.62
197	Less than 2.00% of mass 198	1.06
442	Greater than 50.00% of mass 198	55.19
199	5.00 - 9.00% of mass 198	6.22
275	10.00 - 60.00% of mass 198	18.38
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	8.24
443	15.00 - 24.00% of mass 442	12.11 ( 21.94 )



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D

Spectrum: Average Spectrum: 7.316 to 7.322 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	110	118.00	1074	196.00	4498	279.00	128
38.00	331	119.00	105	197.00	1183	284.00	166
39.00	3391	120.00	317	198.00	111736	285.00	502
40.00	309	122.00	857	199.00	6945	286.00	85
41.00	524	123.00	1424	200.00	721	287.00	85
42.00	189	124.00	875	201.00	921	289.00	91
44.00	815	125.00	520	202.00	513	292.00	200
47.00	287	126.00	89	203.00	673	293.00	656
48.00	83	127.00	53208	204.00	4538	294.00	330
49.00	1900	128.00	4497	205.00	6576	295.00	263
50.00	9727	129.00	21056	206.00	29576	296.00	7021
51.00	43184	130.00	2658	207.00	3429	297.00	839
52.00	2012	131.00	214	208.00	897	302.00	316
54.00	118	132.00	658	209.00	188	303.00	678
55.00	686	134.00	446	210.00	644	304.00	275
56.00	1674	135.00	949	211.00	1222	311.00	136
57.00	3990	136.00	489	212.00	344	313.00	120
59.00	200	137.00	972	215.00	302	314.00	575
60.00	102	138.00	183	216.00	708	315.00	710
61.00	688	140.00	166	217.00	6495	316.00	451
62.00	643	141.00	2456	218.00	1219	317.00	241
63.00	2108	142.00	826	219.00	209	323.00	2034
64.00	198	143.00	688	220.00	203	324.00	622
65.00	966	144.00	107	221.00	6220	327.00	594
67.00	85	146.00	409	222.00	1372	328.00	314
68.00	1108	147.00	1369	223.00	1554	332.00	256
69.00	55704	148.00	2888	224.00	14710	333.00	127
70.00	455	149.00	863	225.00	3045	334.00	1727
71.00	86	150.00	204	226.00	550	335.00	353
73.00	563	151.00	582	227.00	6149	341.00	409
74.00	4574	152.00	137	228.00	1321	346.00	635
75.00	7776	153.00	604	229.00	1434	348.00	124
76.00	1808	154.00	530	230.00	121	351.00	204
77.00	56120	155.00	1183	231.00	1154	352.00	1050
78.00	4636	156.00	1982	233.00	80	353.00	393
79.00	3764	157.00	960	234.00	360	354.00	628
80.00	2509	158.00	367	235.00	584	355.00	186
81.00	3783	159.00	393	236.00	304	359.00	231
82.00	859	160.00	416	237.00	247	365.00	2993
83.00	944	161.00	1195	239.00	158	366.00	522

84.00	1643	162.00	709	240.00	113	370.00	103
85.00	870	163.00	87	241.00	244	371.00	320
86.00	2033	164.00	228	242.00	1022	372.00	962
87.00	775	165.00	812	243.00	614	373.00	203
88.00	439	166.00	759	244.00	9836	374.00	183
+-----+-----+-----+-----+-----+-----+-----+-----+							
89.00	75	167.00	7152	245.00	1917	383.00	80
91.00	935	168.00	2718	246.00	2545	384.00	82
92.00	1197	169.00	480	247.00	639	385.00	84
93.00	7053	171.00	167	249.00	238	389.00	82
94.00	371	172.00	421	250.00	128	391.00	217
+-----+-----+-----+-----+-----+-----+-----+-----+							
95.00	124	173.00	723	251.00	349	401.00	212
96.00	551	174.00	828	252.00	113	402.00	406
97.00	89	175.00	2017	253.00	373	403.00	666
98.00	4715	176.00	960	255.00	59088	404.00	241
99.00	3308	177.00	807	256.00	8154	405.00	86
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.00	286	178.00	485	257.00	616	410.00	110
101.00	1852	179.00	3326	258.00	3007	421.00	665
102.00	207	180.00	2968	259.00	453	422.00	202
103.00	645	181.00	1541	260.00	126	423.00	3022
104.00	1173	182.00	302	263.00	166	424.00	648
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.00	938	184.00	199	265.00	1416	425.00	235
106.00	416	185.00	1914	266.00	311	437.00	81
107.00	17128	186.00	14888	268.00	116	439.00	98
108.00	2326	187.00	4450	269.00	83	441.00	9207
109.00	491	188.00	490	271.00	106	442.00	61664
+-----+-----+-----+-----+-----+-----+-----+-----+							
110.00	29592	189.00	750	272.00	84	443.00	13528
111.00	4467	190.00	193	273.00	2008	444.00	1364
112.00	401	191.00	634	274.00	4160	445.00	85
113.00	284	192.00	814	275.00	20536	482.00	77
115.00	320	193.00	1721	276.00	2395	499.00	85
+-----+-----+-----+-----+-----+-----+-----+-----+							
116.00	747	194.00	178	277.00	2145		
117.00	12356	195.00	132	278.00	447		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 28-MAR-2013 11:42  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.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				
7.322	7.469	-0.147	198	175680			50.00- 0.00	100.00
7.322	7.469	-0.147	51	57992			10.00- 80.00	33.01
7.322	7.469	-0.147	68	1045			0.00- 2.00	1.38
7.322	7.469	-0.147	69	75992			0.00- 0.00	43.26
7.322	7.469	-0.147	70	578			0.00- 2.00	0.76
7.322	7.469	-0.147	127	84384			10.00- 80.00	48.03
7.322	7.469	-0.147	197	1547			0.00- 2.00	0.88
7.322	7.469	-0.147	442	160576			50.00- 0.00	91.40
7.322	7.469	-0.147	199	12476			5.00- 9.00	7.10
7.322	7.469	-0.147	275	41464			10.00- 60.00	23.60
7.322	7.469	-0.147	365	7644			1.00- 0.00	4.35
7.322	7.469	-0.147	441	23184			0.01- 99.99	63.51
7.322	7.469	-0.147	443	36504			15.00- 24.00	22.73

Data File: 1CC28002.D

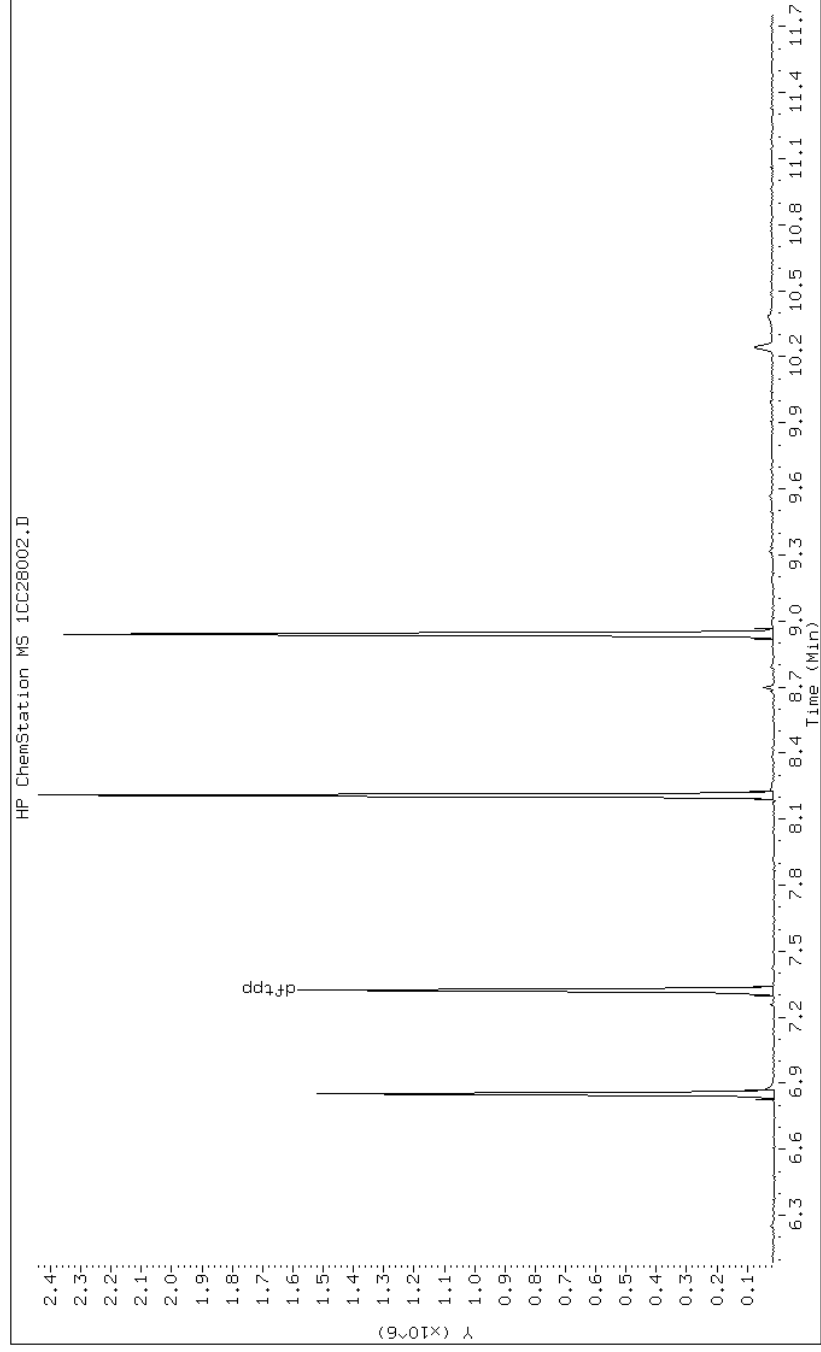
Date: 28-MAR-2013 11:42

Client ID: DFTPP

Sample Info: DFTPP-1490607

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

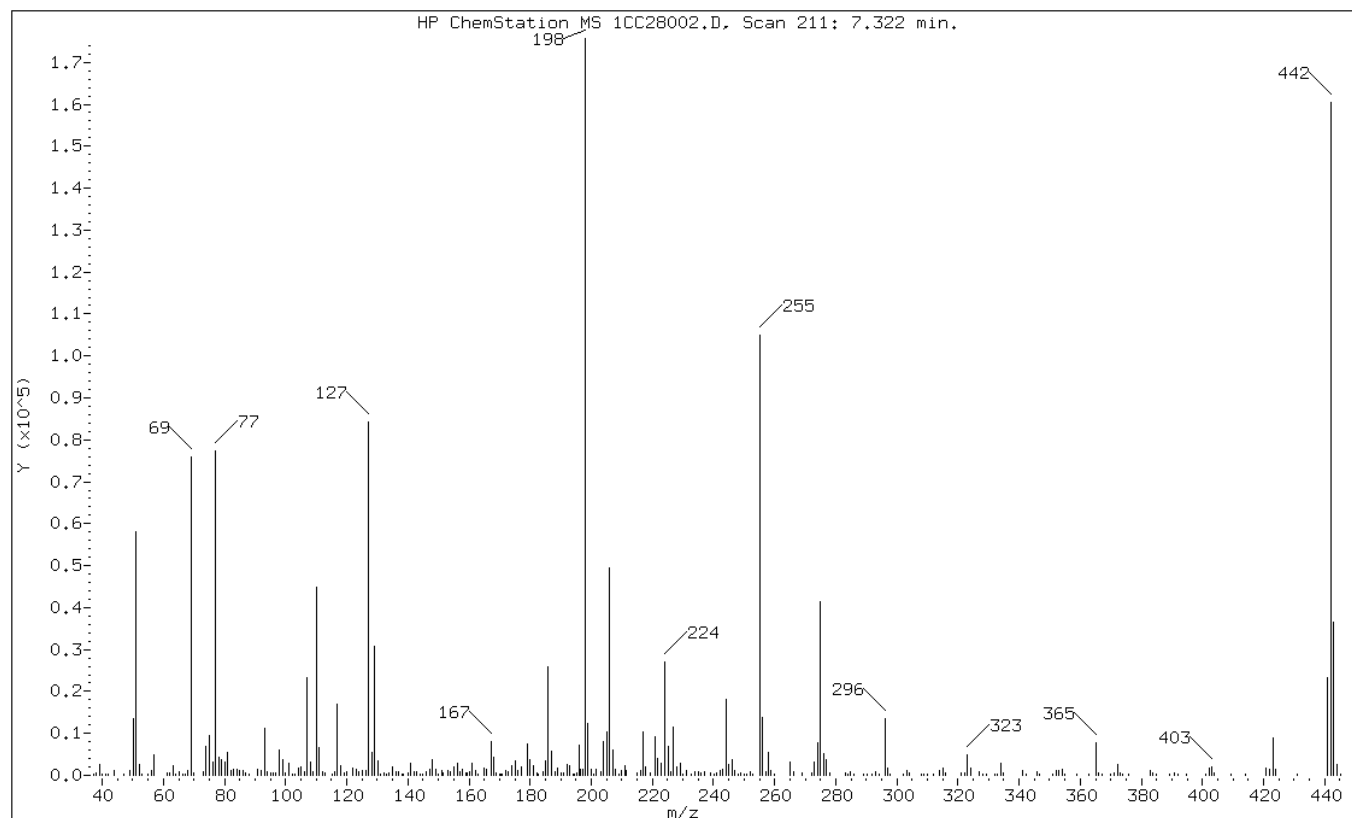
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

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	33.01
68	Less than 2.00% of mass 69	0.59 ( 1.38 )
69	Mass 69 relative abundance	43.26
70	Less than 2.00% of mass 69	0.33 ( 0.76 )
127	10.00 - 80.00% of mass 198	48.03
197	Less than 2.00% of mass 198	0.88
442	Greater than 50.00% of mass 198	91.40
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	23.60
365	Greater than 1.00% of mass 198	4.35
441	Present, but less than mass 443	13.20
443	15.00 - 24.00% of mass 442	20.78 ( 22.73 )

Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D

Spectrum: HP ChemStation MS 1CC28002.D, Scan 211: 7.322 min.

Location of Maximum: 198.00

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	294	125.10	1116	197.10	1547	291.80	246
38.10	630	126.20	1154	198.00	175680	293.00	847
39.20	2603	127.10	84384	199.00	12476	294.10	212
40.00	408	128.10	5411	200.10	1313	296.00	13416
41.20	348	129.00	30832	200.90	187	297.00	1681
42.00	193	130.10	3565	201.60	1567	297.90	256
44.00	1093	131.10	373	203.20	825	302.10	338
46.90	181	132.10	511	204.10	8129	303.20	1156
49.10	1140	132.90	271	205.00	10400	304.10	460
50.10	13428	133.80	674	206.10	49432	308.00	168
51.10	57992	135.10	2085	207.00	6166	308.90	285
52.10	2487	136.00	767	208.00	1401	310.10	164
52.80	156	137.00	942	209.20	383	311.90	236
55.10	337	138.20	176	210.00	1251	314.00	1043
56.10	1126	138.70	221	211.00	2371	315.00	1865
57.10	4979	140.20	712	211.60	1259	316.00	518
61.10	544	141.00	2761	215.10	588	321.20	550
62.10	599	142.00	977	216.00	1064	322.10	603
63.10	2258	143.00	796	217.00	10305	323.00	4944
64.10	174	143.90	380	217.80	2070	324.00	1585
65.00	871	144.90	211	219.30	689	327.00	810
66.20	154	146.10	911	221.00	9334	328.20	265
67.10	402	147.00	1554	221.60	3971	329.20	358
68.10	1045	148.00	3782	222.90	2906	332.10	240
69.10	75992	149.00	1427	224.10	27024	332.70	164
70.10	578	150.00	283	225.10	6866	334.10	2862
73.10	834	151.10	1130	226.00	835	334.90	636
74.00	6873	151.70	435	227.00	11564	341.10	1069
75.10	9534	152.90	1041	228.00	1915	342.30	170
76.10	3183	154.00	728	229.00	2855	345.90	742
77.10	77320	155.00	2109	229.90	225	346.70	303
78.20	4278	156.10	2889	231.10	1135	351.00	263
79.00	3766	157.00	929	232.80	280	352.10	1277
80.00	3178	157.90	1527	234.10	813	353.00	1175
81.00	5589	159.00	550	235.00	911	354.10	1455
82.00	1067	159.60	475	235.90	646	354.80	277
83.10	1403	160.10	940	237.00	907	359.00	193
84.00	1332	160.90	2762	238.90	485	362.80	172
85.00	1182	162.10	1195	240.20	153	365.00	7644
86.10	1187	163.10	263	240.90	601	366.00	698

87.00	553	165.10	1735	242.00	1243	367.10	153
88.00	353	165.90	1342	242.90	1417	369.80	320
91.00	1495	167.10	8176	244.00	18256	371.10	439
92.10	1101	168.00	4307	245.00	2490	372.10	2645
93.00	11102	169.00	492	246.00	3736	372.90	510
94.00	864	170.00	314	247.00	1048	373.80	366
95.10	470	170.40	307	248.00	421	375.90	152
96.10	689	171.00	331	248.90	554	383.00	1095
96.90	564	172.00	1053	250.20	320	383.80	440
98.00	5969	173.00	960	250.70	240	384.80	391
99.00	3600	174.10	2229	252.20	871	389.40	153
100.00	498	175.10	3576	252.90	284	390.80	613
101.00	2743	176.10	1123	255.00	104920	392.00	154
102.10	160	177.10	1950	256.10	13841	394.90	212
102.90	364	179.00	7514	257.20	1001	401.10	308
104.10	1615	180.00	3880	258.00	5520	402.10	1695
104.90	2147	181.10	2231	258.90	1271	403.10	2087
106.00	933	182.10	464	259.90	325	404.00	687
107.10	23360	182.80	153	265.00	3276	409.20	289
108.00	3118	184.20	929	266.10	756	414.20	158
109.10	833	185.10	3566	269.10	572	420.90	1605
110.10	44752	186.00	25984	272.10	460	422.00	1469
111.10	6663	187.10	5816	273.00	3273	423.00	8780
112.00	991	188.20	753	274.00	7767	423.90	1316
113.00	509	189.00	1701	275.00	41464	431.10	306
115.30	177	190.00	461	276.10	5206	441.00	23184
116.10	741	190.80	566	277.00	3602	442.00	160576
117.00	17008	192.00	2454	277.90	475	443.00	36504
118.00	2311	193.00	2393	283.00	610	444.10	2482
119.10	551	193.90	408	284.10	393	445.20	409
120.10	775	194.60	180	284.90	769		
122.00	1695	195.20	647	286.10	227		
123.10	1318	196.00	7215	288.90	205		
123.80	818	196.60	1396	290.20	151		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D  
Lab Smp Id: DFTPP Client Smp ID: DFTPP  
Inj Date : 22-FEB-2013 11:57  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : DFTPP-1490607  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m  
Meth Date : 10-Feb-2013 14:41 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					
8.477	8.532	-0.055	198	100672			50.00-	0.00	100.00
8.477	8.532	-0.055	51	47200			10.00-	80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	69	46864			0.00-	0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	127	51248			10.00-	80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	442	64976			50.00-	0.00	64.54
8.477	8.532	-0.055	199	7983			5.00-	9.00	7.93
8.477	8.532	-0.055	275	25312			10.00-	60.00	25.14
8.477	8.532	-0.055	365	2913			1.00-	0.00	2.89
8.477	8.532	-0.055	441	10444			0.01-	99.99	78.40
8.477	8.532	-0.055	443	13322			15.00-	24.00	20.50



Data File: 1DB22002.D

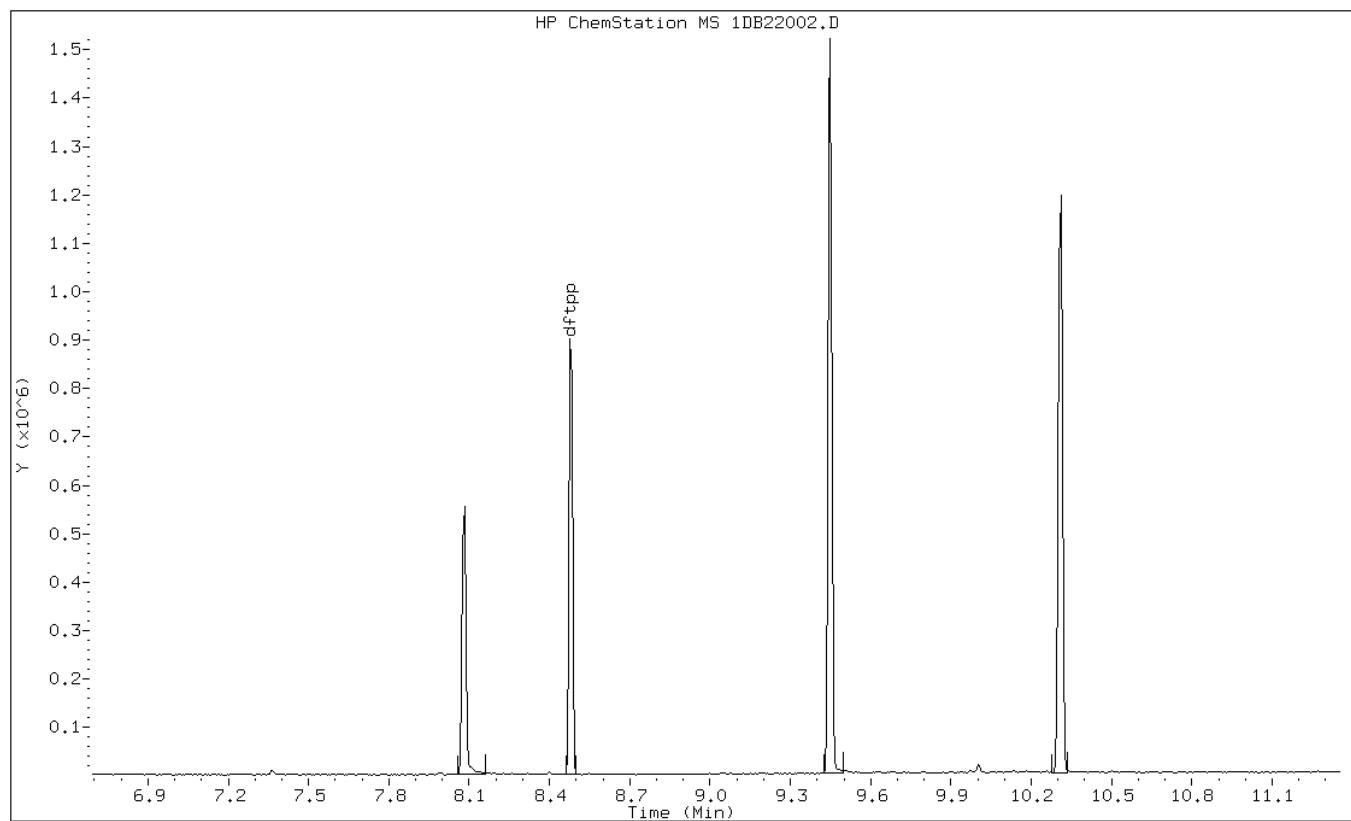
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

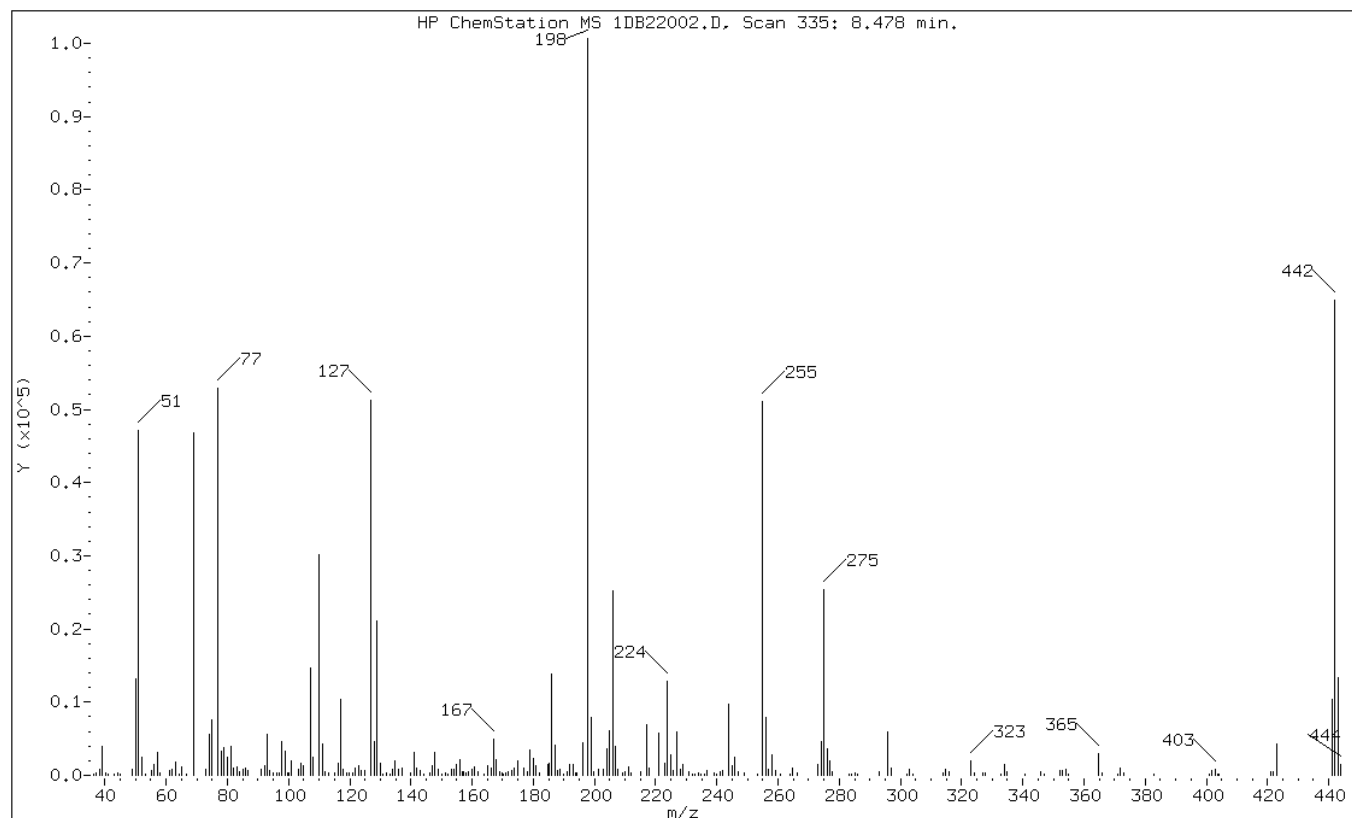
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

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	46.88
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 ( 20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213\_pahIC.b\1DB22002.D

Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.

Location of Maximum: 197.90

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
+-----+-----+-----+-----+-----+-----+-----+-----+							
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
+-----+-----+-----+-----+-----+-----+-----+-----+							
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
+-----+-----+-----+-----+-----+-----+-----+-----+							
112.90	308	177.90	412	255.90	7928		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25002.D  
Lab Smp Id: DFTPP Client Smp ID: DFTPP  
Inj Date : 25-MAR-2013 10:11  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : DFTPP-1490607  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\d-dftpp198.m  
Meth Date : 10-Feb-2013 14:41 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					
8.419	8.532	-0.113	198	110904			50.00-	0.00	100.00
8.419	8.532	-0.113	51	45900			10.00-	80.00	41.39
8.419	8.532	-0.113	68	0	0.0	0.0	0.00-	2.00	0.00
8.419	8.532	-0.113	69	45152			0.00-	0.00	40.71
8.419	8.532	-0.113	70	402			0.00-	2.00	0.89
8.419	8.532	-0.113	127	53536			10.00-	80.00	48.27
8.419	8.532	-0.113	197	0	0.0	0.0	0.00-	2.00	0.00
8.419	8.532	-0.113	442	102004			50.00-	0.00	91.98
8.419	8.532	-0.113	199	7278			5.00-	9.00	6.56
8.419	8.532	-0.113	275	31924			10.00-	60.00	28.79
8.419	8.532	-0.113	365	4188			1.00-	0.00	3.78
8.419	8.532	-0.113	441	9876			0.01-	99.99	50.13
8.419	8.532	-0.113	443	19702			15.00-	24.00	19.31

Data File: 1DC25002.D

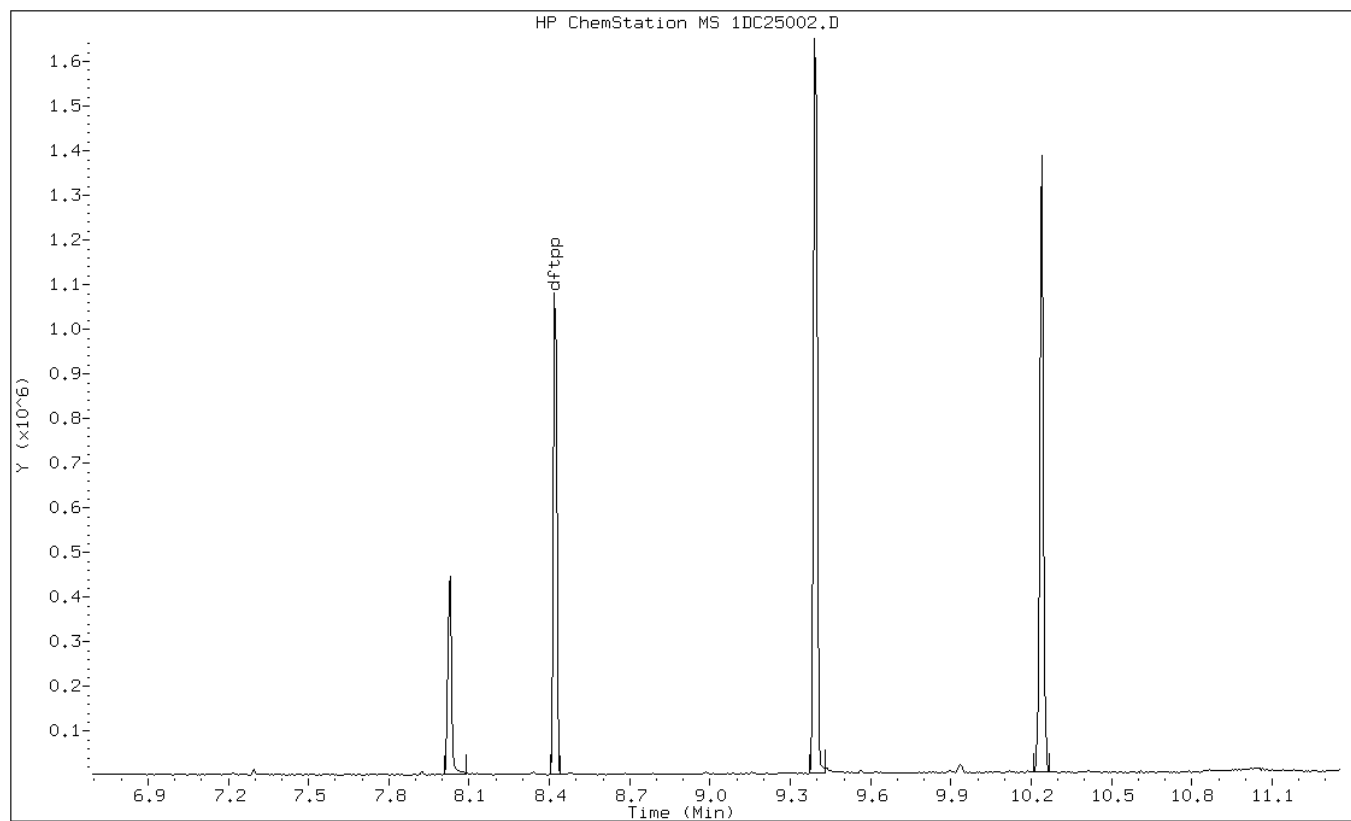
Date: 25-MAR-2013 10:11

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DC25002.D

Date: 25-MAR-2013 10:11

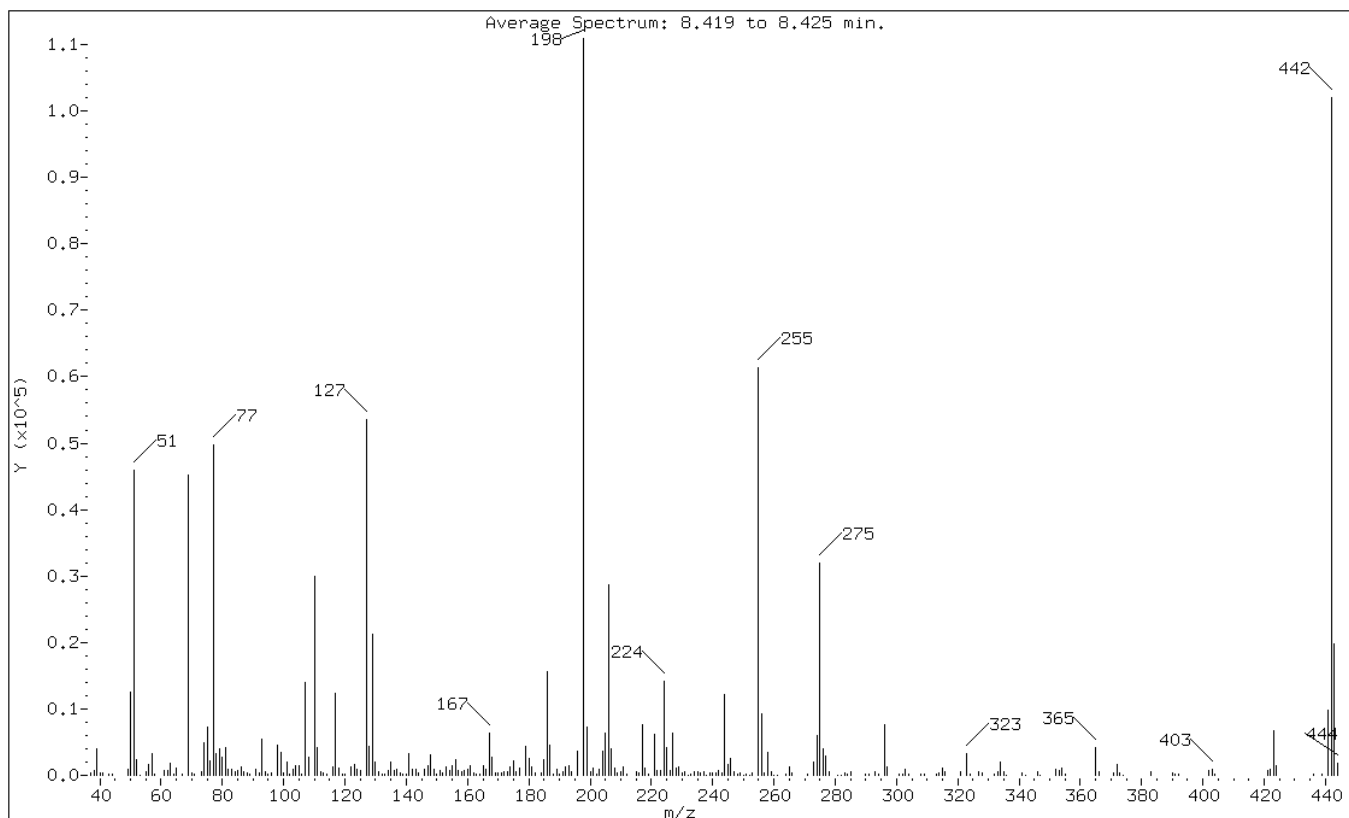
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

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	41.39
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	40.71
70	Less than 2.00% of mass 69	0.36 ( 0.89)
127	10.00 - 80.00% of mass 198	48.27
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	91.98
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 60.00% of mass 198	28.79
365	Greater than 1.00% of mass 198	3.78
441	Present, but less than mass 443	8.90
443	15.00 - 24.00% of mass 442	17.76 ( 19.31)

Data File: 1DC25002.D

Date: 25-MAR-2013 10:11

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25002.D

Spectrum: Average Spectrum: 8.419 to 8.425 min.

Location of Maximum: 198.00

Number of points: 271

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	386	120.00	202	193.00	1470	274.00	5912
38.00	760	122.00	1229	194.00	568	275.00	31920
39.00	4039	123.00	1631	196.00	3584	276.00	4062
40.00	438	124.00	882	198.00	110904	277.00	2937
41.00	284	125.00	676	199.00	7278	278.00	456
43.00	141	127.00	53536	200.00	454	281.00	77
44.00	147	128.00	4384	201.00	1151	282.00	77
49.00	860	129.00	21216	202.00	117	283.00	371
50.00	12442	130.00	2002	203.00	900	284.00	244
51.00	45896	131.00	488	204.00	3620	285.00	513
52.00	2275	132.00	200	205.00	6300	290.00	100
53.00	75	133.00	155	206.00	28656	291.00	106
55.00	554	134.00	720	207.00	3982	293.00	596
56.00	1567	135.00	1972	208.00	1058	294.00	143
57.00	3218	136.00	772	209.00	429	296.00	7576
58.00	114	137.00	934	210.00	591	297.00	1254
61.00	766	138.00	376	211.00	1207	301.00	97
62.00	788	139.00	180	212.00	170	302.00	259
63.00	1773	140.00	199	215.00	601	303.00	869
64.00	253	141.00	3304	216.00	446	304.00	122
65.00	1067	142.00	978	217.00	7625	308.00	95
67.00	114	143.00	921	218.00	1023	309.00	118
69.00	45152	144.00	306	219.00	190	313.00	127
70.00	402	146.00	960	221.00	6236	314.00	415
71.00	113	147.00	1528	222.00	722	315.00	1030
73.00	511	148.00	3032	223.00	800	316.00	547
74.00	4909	149.00	833	224.00	14201	321.00	582
75.00	7292	150.00	107	225.00	4252	323.00	3216
76.00	2235	151.00	739	226.00	690	324.00	220
77.00	49816	152.00	384	227.00	6351	327.00	488
78.00	3198	153.00	1183	228.00	1108	328.00	348
79.00	4030	154.00	664	229.00	1233	332.00	148
80.00	2672	155.00	1450	230.00	286	333.00	544
81.00	4106	156.00	2435	231.00	625	334.00	2074
82.00	889	157.00	656	232.00	83	335.00	538
83.00	919	158.00	601	233.00	103	336.00	84
84.00	477	159.00	671	234.00	510	341.00	337
85.00	759	160.00	976	235.00	512	342.00	83
86.00	1255	161.00	1424	236.00	357	346.00	617
87.00	621	162.00	423	237.00	623	347.00	83



88.00	282	163.00	169	238.00	79	352.00	853
89.00	229	164.00	146	239.00	406	353.00	734
91.00	947	165.00	1379	240.00	290	354.00	1044
92.00	430	166.00	858	241.00	275	355.00	154
93.00	5449	167.00	6312	242.00	680	365.00	4188
+-----+							
94.00	499	168.00	2652	243.00	431	366.00	623
95.00	129	169.00	406	244.00	12186	371.00	344
96.00	434	170.00	317	245.00	1651	372.00	1649
98.00	4620	171.00	303	246.00	2500	373.00	400
99.00	3441	172.00	457	247.00	523	374.00	80
+-----+							
100.00	357	173.00	552	248.00	265	383.00	460
101.00	2048	174.00	1324	249.00	444	390.00	358
102.00	124	175.00	2225	250.00	83	391.00	178
103.00	940	176.00	502	251.00	96	392.00	206
104.00	1465	177.00	1127	252.00	79	402.00	687
+-----+							
105.00	1384	179.00	4399	253.00	348	403.00	988
106.00	141	180.00	2576	255.00	61344	404.00	238
107.00	13958	181.00	1246	256.00	9321	421.00	801
108.00	2763	182.00	301	257.00	382	422.00	934
110.00	29880	184.00	417	258.00	3414	423.00	6647
+-----+							
111.00	4193	185.00	2298	259.00	549	424.00	1537
112.00	552	186.00	15646	260.00	88	436.00	110
113.00	396	187.00	4524	261.00	90	439.00	234
114.00	93	188.00	227	264.00	176	441.00	9876
116.00	1258	189.00	912	265.00	1185	442.00	102000
+-----+							
117.00	12366	190.00	96	266.00	331	443.00	19696
118.00	1051	191.00	565	271.00	223	444.00	1761
119.00	112	192.00	1224	273.00	2032		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26002.D  
Lab Smp Id: DFTPP Client Smp ID: DFTPP  
Inj Date : 26-MAR-2013 10:15  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : DFTPP-1490607  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\d-dftpp198.m  
Meth Date : 10-Feb-2013 14:41 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					
8.422	8.532	-0.110	198	113928			50.00-	0.00	100.00
8.422	8.532	-0.110	51	47012			10.00-	80.00	41.26
8.422	8.532	-0.110	68	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	69	50036			0.00-	0.00	43.92
8.422	8.532	-0.110	70	275			0.00-	2.00	0.55
8.422	8.532	-0.110	127	54804			10.00-	80.00	48.10
8.422	8.532	-0.110	197	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	442	90492			50.00-	0.00	79.43
8.422	8.532	-0.110	199	8045			5.00-	9.00	7.06
8.422	8.532	-0.110	275	32064			10.00-	60.00	28.14
8.422	8.532	-0.110	365	3785			1.00-	0.00	3.32
8.422	8.532	-0.110	441	9744			0.01-	99.99	54.19
8.422	8.532	-0.110	443	17980			15.00-	24.00	19.87

Data File: 1DC26002.D

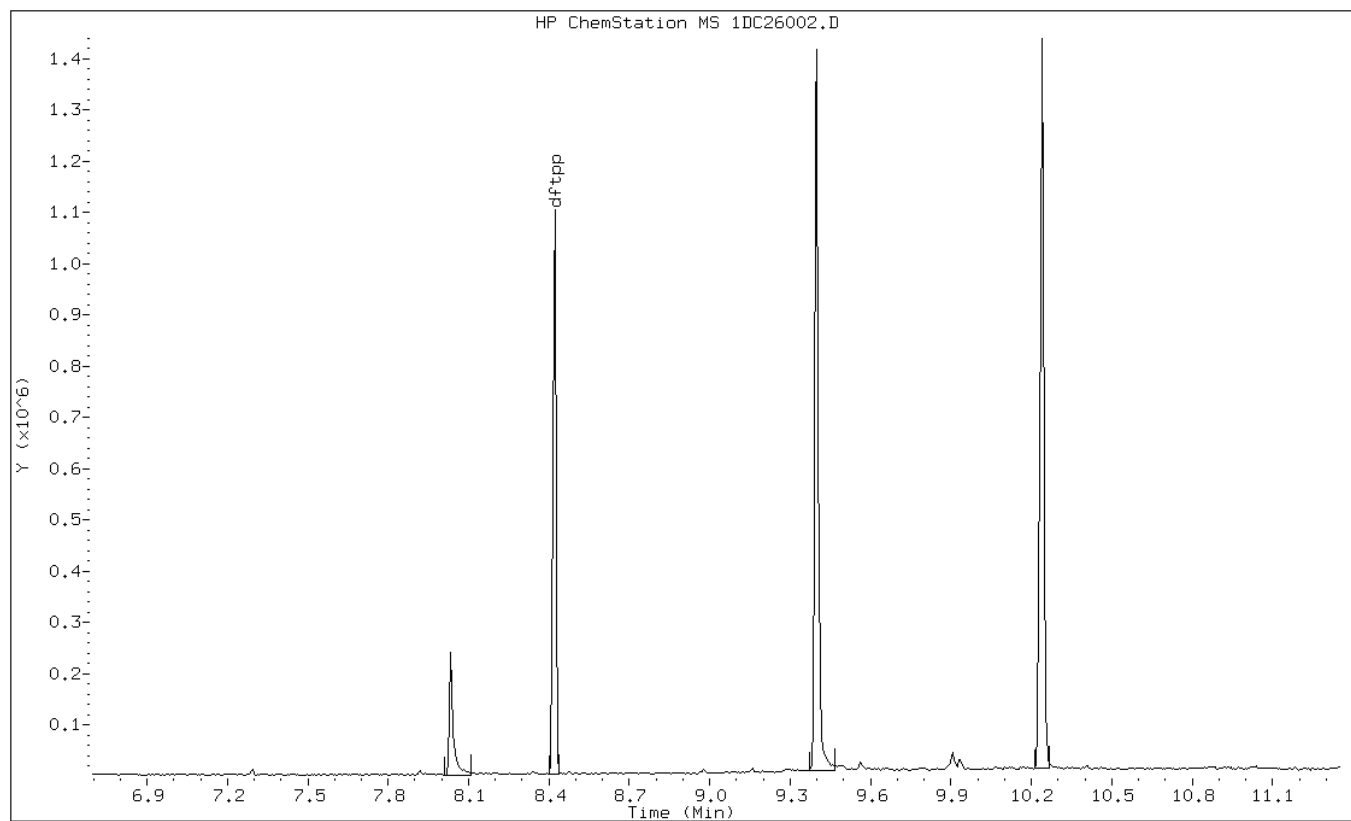
Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

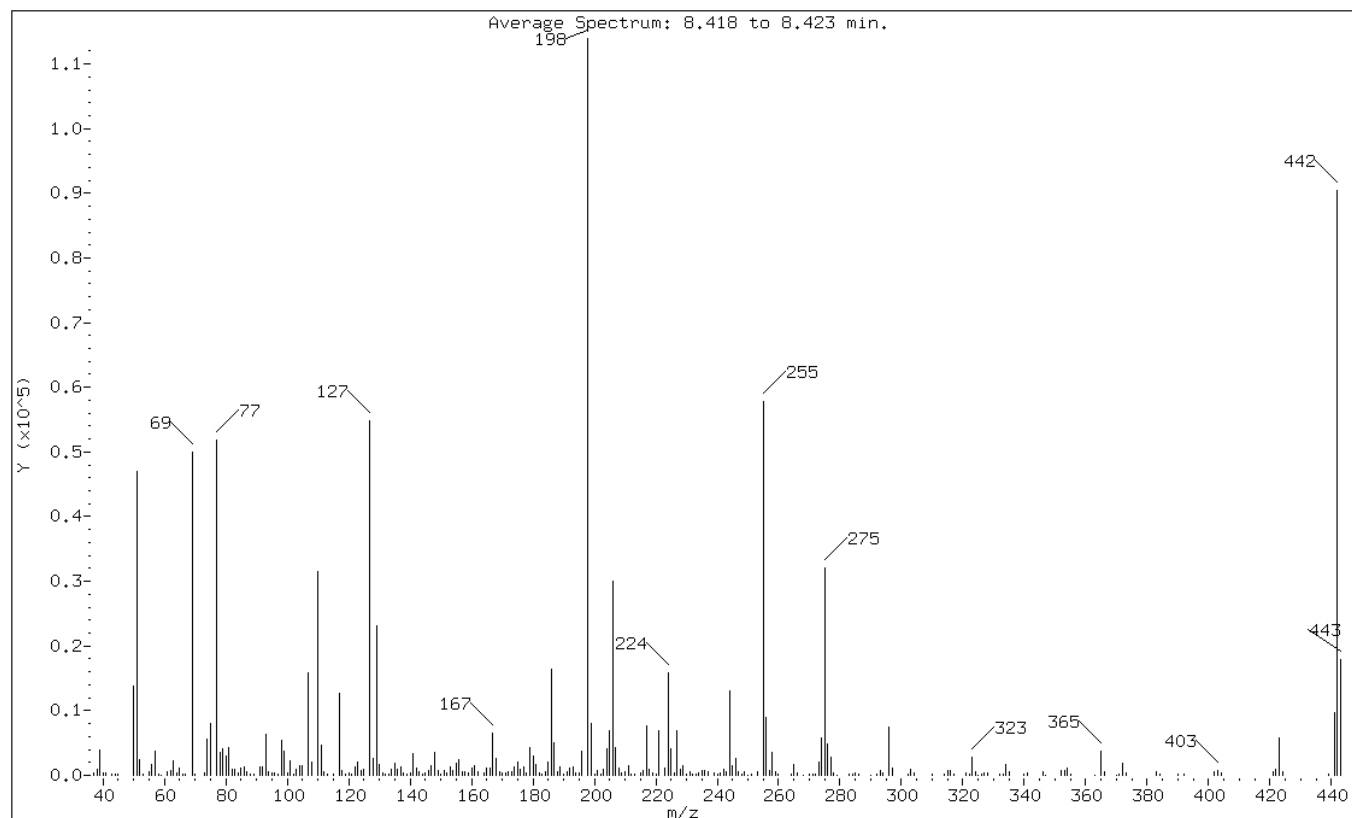
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

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	41.26
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	43.92
70	Less than 2.00% of mass 69	0.24 ( 0.55)
127	10.00 - 80.00% of mass 198	48.10
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	79.43
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 60.00% of mass 198	28.14
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	8.55
443	15.00 - 24.00% of mass 442	15.78 ( 19.87)

Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26002.D

Spectrum: Average Spectrum: 8.418 to 8.423 min.

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	361	122.00	1307	193.00	1296	273.00	2113
38.00	920	123.00	1959	194.00	419	274.00	5703
39.00	3938	124.00	758	195.00	405	275.00	32064
40.00	389	125.00	899	196.00	3738	276.00	4834
41.00	414	127.00	54800	198.00	113928	277.00	2823
43.00	241	128.00	2687	199.00	8045	278.00	340
44.00	195	129.00	23184	200.00	248	279.00	82
45.00	112	130.00	1715	201.00	810	283.00	265
50.00	13850	131.00	444	202.00	146	284.00	197
51.00	47008	132.00	241	203.00	881	285.00	364
52.00	2501	133.00	156	204.00	4150	286.00	188
53.00	202	134.00	847	205.00	6987	290.00	86
55.00	637	135.00	1872	206.00	30048	292.00	131
56.00	1760	136.00	879	207.00	4290	293.00	761
57.00	3677	137.00	1213	208.00	1163	294.00	323
58.00	275	138.00	305	209.00	386	296.00	7461
59.00	87	139.00	170	210.00	526	297.00	1040
61.00	536	140.00	360	211.00	1499	302.00	150
62.00	753	141.00	3334	212.00	269	303.00	891
63.00	2255	142.00	1065	213.00	94	304.00	389
64.00	335	143.00	620	215.00	425	310.00	107
65.00	1083	144.00	244	216.00	793	314.00	222
66.00	181	145.00	379	217.00	7624	315.00	684
67.00	277	146.00	784	218.00	974	316.00	718
69.00	50032	147.00	1583	219.00	324	317.00	107
70.00	275	148.00	3498	220.00	137	321.00	397
73.00	399	149.00	733	221.00	6808	322.00	230
74.00	5522	150.00	255	223.00	1106	323.00	2784
75.00	8100	151.00	730	224.00	15759	324.00	505
77.00	51744	152.00	344	225.00	4152	325.00	80
78.00	3566	153.00	1262	226.00	365	326.00	94
79.00	4087	154.00	711	227.00	6961	327.00	374
80.00	3034	155.00	1857	228.00	1006	328.00	418
81.00	4257	156.00	2338	229.00	1482	332.00	266
82.00	870	157.00	641	230.00	142	333.00	265
83.00	877	158.00	581	231.00	502	334.00	1586
84.00	366	159.00	450	232.00	129	335.00	501
85.00	1149	160.00	1147	233.00	98	340.00	121
86.00	1222	161.00	1540	234.00	399	341.00	324
87.00	542	162.00	496	235.00	713	346.00	539

88.00	166	164.00	291	236.00	786	347.00	77
89.00	204	165.00	1061	237.00	534	352.00	702
91.00	1303	166.00	1166	239.00	425	353.00	762
92.00	1246	167.00	6463	240.00	120	354.00	1069
93.00	6362	168.00	2585	241.00	416	355.00	165
+-----+-----+-----+-----+-----+-----+-----+-----+							
94.00	478	169.00	500	242.00	953	363.00	81
95.00	300	170.00	302	243.00	553	365.00	3785
96.00	346	171.00	286	244.00	13029	366.00	590
97.00	155	172.00	598	245.00	1448	370.00	77
98.00	5337	173.00	626	246.00	2569	371.00	136
+-----+-----+-----+-----+-----+-----+-----+-----+							
99.00	3681	174.00	1298	247.00	513	372.00	1853
100.00	457	175.00	1975	248.00	124	373.00	337
101.00	2327	176.00	847	249.00	485	383.00	524
102.00	212	177.00	1357	250.00	82	384.00	126
103.00	948	178.00	462	251.00	113	390.00	181
+-----+-----+-----+-----+-----+-----+-----+-----+							
104.00	1416	179.00	4221	253.00	515	392.00	109
105.00	1487	180.00	3014	255.00	57712	402.00	612
107.00	15909	181.00	1653	256.00	9004	403.00	725
108.00	2141	182.00	345	257.00	734	404.00	326
110.00	31472	183.00	159	258.00	3632	421.00	580
+-----+-----+-----+-----+-----+-----+-----+-----+							
111.00	4750	184.00	527	259.00	625	422.00	852
112.00	580	185.00	2024	260.00	196	423.00	5819
113.00	268	186.00	16496	264.00	169	424.00	517
115.00	272	187.00	5044	265.00	1663	439.00	129
117.00	12642	188.00	649	266.00	285	441.00	9744
+-----+-----+-----+-----+-----+-----+-----+-----+							
118.00	806	189.00	1373	268.00	75	442.00	90488
119.00	210	190.00	194	270.00	114	443.00	17976
120.00	290	191.00	514	271.00	200		
121.00	230	192.00	1188	272.00	272		
+-----+-----+-----+-----+-----+-----+-----+-----+							

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-135697/1-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>1DC25005.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3520C</u>	Date Extracted: <u>03/22/2013 15:26</u>
Sample wt/vol: <u>1000 (mL)</u>	Date Analyzed: <u>03/25/2013 11:17</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135796</u>	Units: <u>ug/L</u>

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

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25005.D  
 Lab Smp Id: MB 660-135697/1-A  
 Inj Date : 25-MAR-2013 11:17  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : MB 660-135697/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\dFASTPAHi.m  
 Meth Date : 25-Mar-2013 10:50 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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 FINAL
							( ug/l) ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.119	6.125	(1.000)	2750846	40.0000	
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1668938	40.0000	
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2782312	40.0000	
\$ 13 o-Terphenyl	230	9.369	9.374	(1.034)	288986	6.71659	6.7
* 17 Chrysene-d12	240	11.396	11.407	(1.000)	2841770	40.0000	
* 22 Perylene-d12	264	13.258	13.270	(1.000)	3012237	40.0000	



Data File: 1DC25005.D

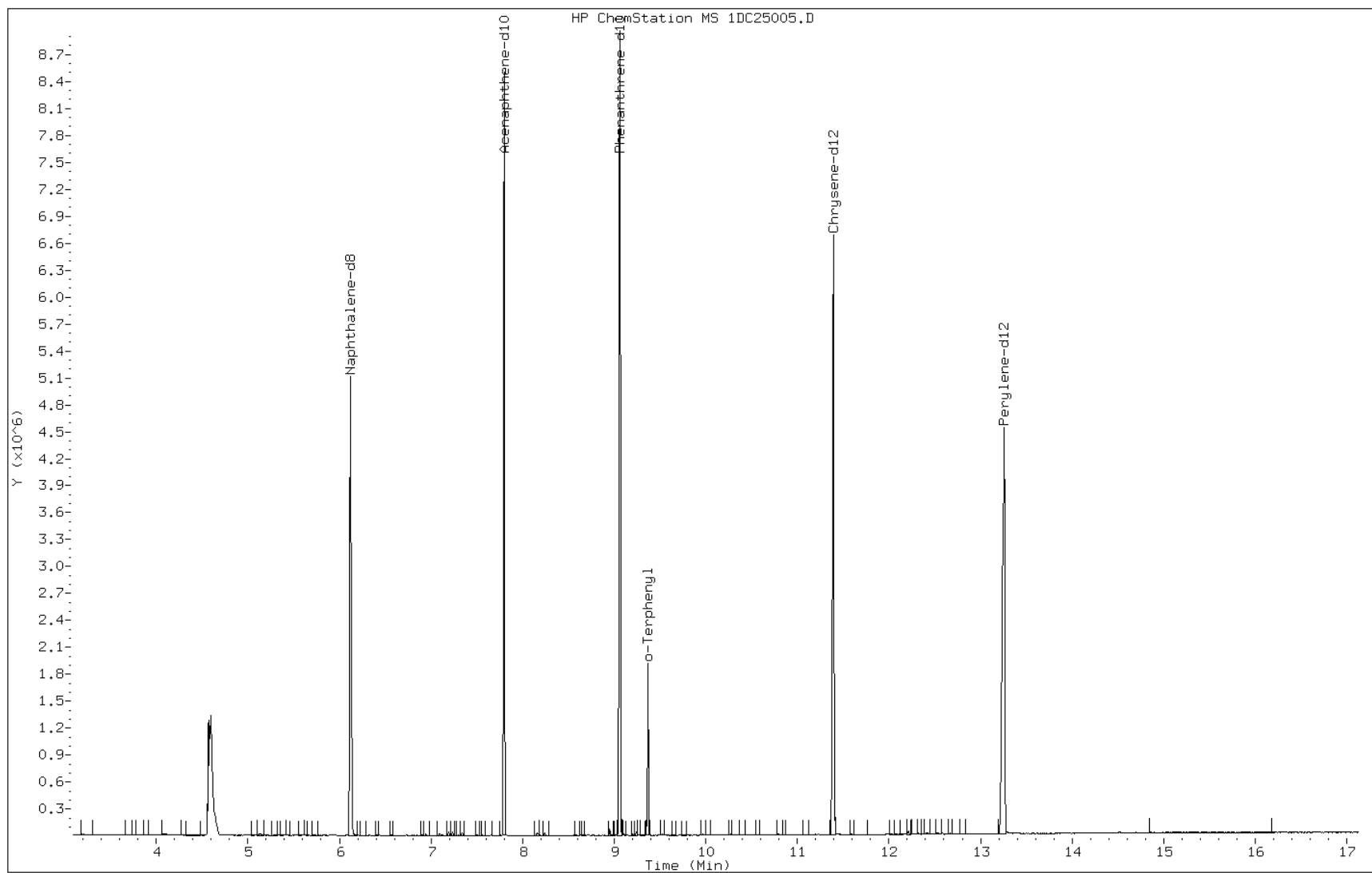
Date: 25-MAR-2013 11:17

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135697/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135735/1-A  
 Matrix: Solid Lab File ID: 1DC26014.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/25/2013 11:55  
 Sample wt/vol: 14.95(g) Date Analyzed: 03/26/2013 15:54  
 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.: 135792 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	67		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26014.D  
 Lab Smp Id: MB 660-135735/1-A  
 Inj Date : 26-MAR-2013 15:54  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : MB 660-135735/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 14 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	14.950	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	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.121	6.126	(1.000)	2470729	40.0000		
* 6 Acenaphthene-d10	164	7.801	7.800	(1.000)	1542046	40.0000		
* 9 Phenanthrene-d10	188	9.064	9.063	(1.000)	2465026	40.0000		
\$ 13 o-Terphenyl	230	9.370	9.375	(1.034)	256627	6.73222		450
* 17 Chrysene-d12	240	11.397	11.402	(1.000)	2342934	40.0000		
* 22 Perylene-d12	264	13.259	13.270	(1.000)	2419154	40.0000		

Data File: 1DC26014.D

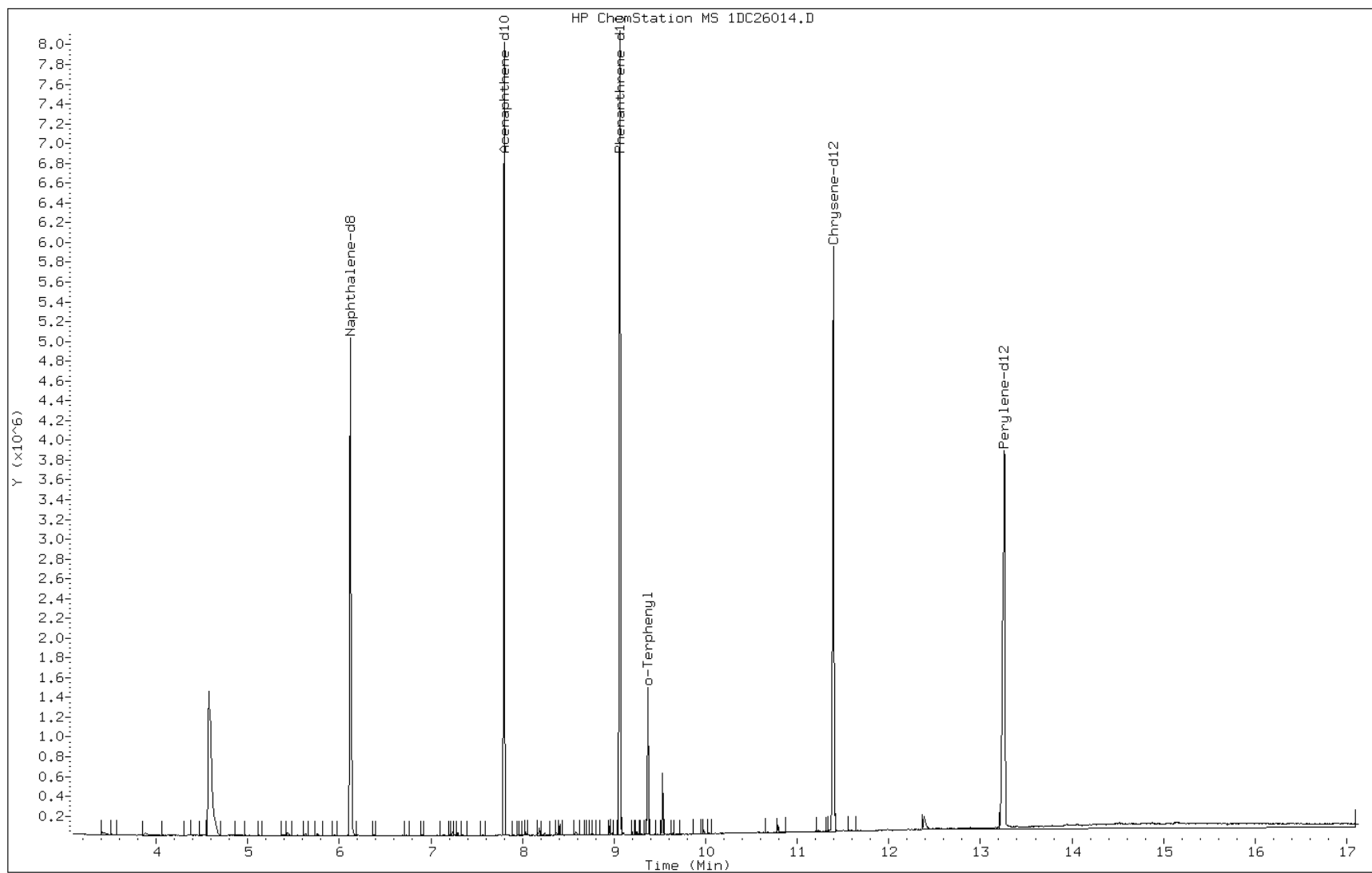
Date: 26-MAR-2013 15:54

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135735/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-135754/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>03/28/2013 14:46</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

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	82		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28012.D  
 Lab Smp Id: mb 660-135754/1-a  
 Inj Date : 28-MAR-2013 14:46  
 Operator : SCC  
 Smp Info : mb 660-135754/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28012.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 12 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL
							(ug/ml) (ug/Kg)
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	719073	40.0000	
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	559054	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1066935	40.0000	
\$ 14 o-Terphenyl	230	6.009	6.010	(1.044)	131449	8.16002	544.0015
* 18 Chrysene-d12	240	7.698	7.704	(1.000)	1235853	40.0000	
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1249019	40.0000	

Data File: 1CC28012.D

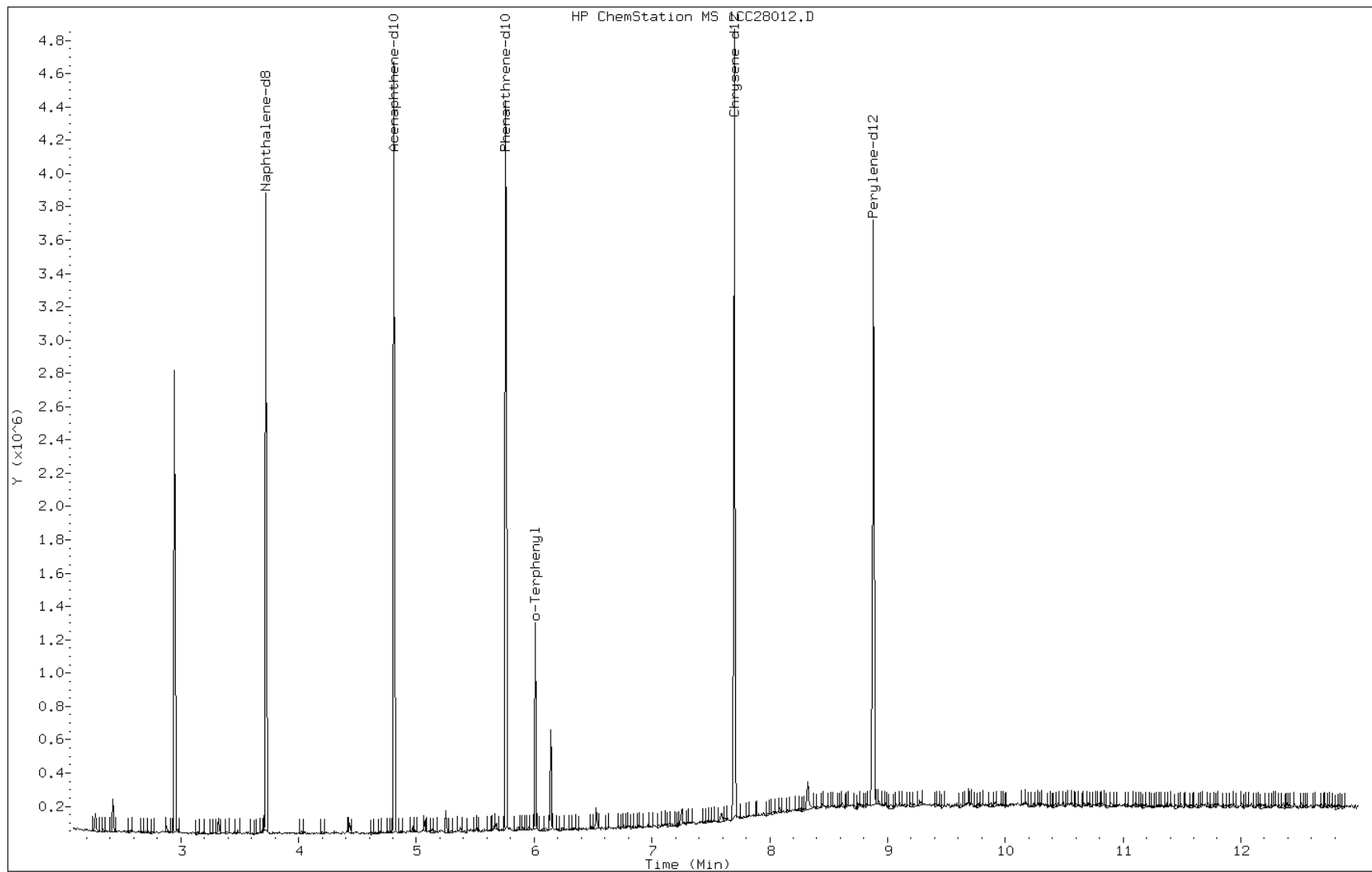
Date: 28-MAR-2013 14:46

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135754/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135697/2-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>1DC26013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3520C</u>	Date Extracted: <u>03/22/2013 15:26</u>
Sample wt/vol: <u>1000 (mL)</u>	Date Analyzed: <u>03/26/2013 15:31</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.45		2.0	0.50
208-96-8	Acenaphthylene	6.67		1.0	0.25
120-12-7	Anthracene	6.25		0.20	0.076
56-55-3	Benzo[a]anthracene	6.89		0.20	0.050
50-32-8	Benzo[a]pyrene	4.89		0.20	0.057
205-99-2	Benzo[b]fluoranthene	5.93		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.96		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.31		0.20	0.057
218-01-9	Chrysene	6.39		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.82		0.20	0.050
206-44-0	Fluoranthene	6.93		0.50	0.054
86-73-7	Fluorene	6.79		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.64		0.20	0.050
90-12-0	1-Methylnaphthalene	7.00		2.0	0.50
91-57-6	2-Methylnaphthalene	6.56		2.0	0.50
91-20-3	Naphthalene	6.42		2.0	0.25
85-01-8	Phenanthrene	6.58		0.50	0.20
129-00-0	Pyrene	6.71		0.50	0.089

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



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26013.D  
 Lab Smp Id: LCS 660-135697/2-A  
 Inj Date : 26-MAR-2013 15:31  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCS 660-135697/2-A  
 Misc Info : RE-RUN  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 13 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
								( ug/l)	( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.128	6.126	(1.000)	2580814	40.0000			
* 6 Acenaphthene-d10	164	7.809	7.800	(1.000)	1600120	40.0000			
* 9 Phenanthrene-d10	188	9.072	9.063	(1.000)	2567960	40.0000			
\$ 13 o-Terphenyl	230	9.372	9.375	(1.033)	257182	6.47634		6.5	
* 17 Chrysene-d12	240	11.410	11.402	(1.000)	2538705	40.0000			
* 22 Perylene-d12	264	13.273	13.270	(1.000)	2579941	40.0000			
2 Naphthalene	128	6.146	6.149	(1.003)	443347	6.42173		6.4	
3 2-Methylnaphthalene	142	6.851	6.848	(1.118)	288428	6.55844		6.6	
4 1-Methylnaphthalene	142	6.945	6.942	(1.133)	288384	7.00258		7.0	
5 Acenaphthylene	152	7.679	7.677	(0.983)	470487	6.66928		6.7	
7 Acenaphthene	154	7.832	7.829	(1.003)	277637	6.45467		6.4	
8 Fluorene	166	8.273	8.270	(1.059)	341055	6.78639		6.8	
10 Phenanthrene	178	9.084	9.087	(1.001)	479470	6.57746		6.6	
11 Anthracene	178	9.125	9.128	(1.006)	456092	6.25349		6.2	
12 Carbazole	167	9.272	9.269	(1.022)	394768	6.05475		6.0	
14 Fluoranthene	202	10.071	10.068	(1.110)	527099	6.92892		6.9	
15 Pyrene	202	10.259	10.256	(0.899)	528586	6.71235		6.7	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL ( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
16 Benzo(a)anthracene	228	11.387	11.384	(0.998)	478720	6.88765	6.9
18 Chrysene	228	11.428	11.431	(1.002)	458176	6.38522	6.4
19 Benzo(b)fluoranthene	252	12.715	12.712	(0.958)	393831	5.93055	5.9
20 Benzo(k)fluoranthene	252	12.750	12.753	(0.961)	369412	5.31295	5.3
21 Benzo(a)pyrene	252	13.173	13.170	(0.992)	321610	4.89399	4.9
23 Indeno(1,2,3-cd)pyrene	276	14.877	14.886	(1.121)	255191	3.63881	3.6(M)
24 Dibenzo(a,h)anthracene	278	14.906	14.915	(1.123)	247471	3.82094	3.8
25 Benzo(g,h,i)perylene	276	15.329	15.344	(1.155)	265017	3.96346	4.0

# QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26013.D

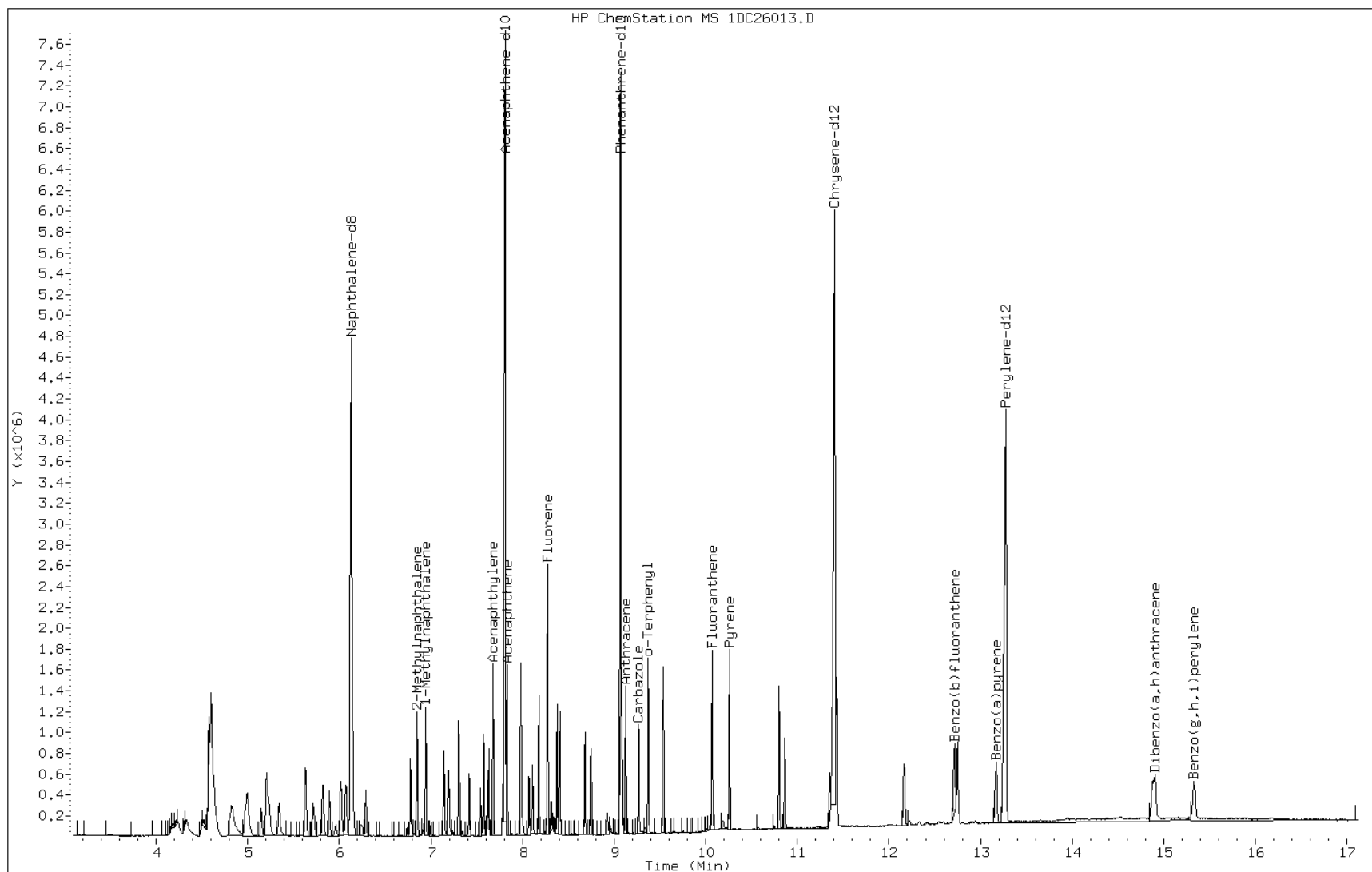
Date: 26-MAR-2013 15:31

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135697/2-A

Operator: SCC

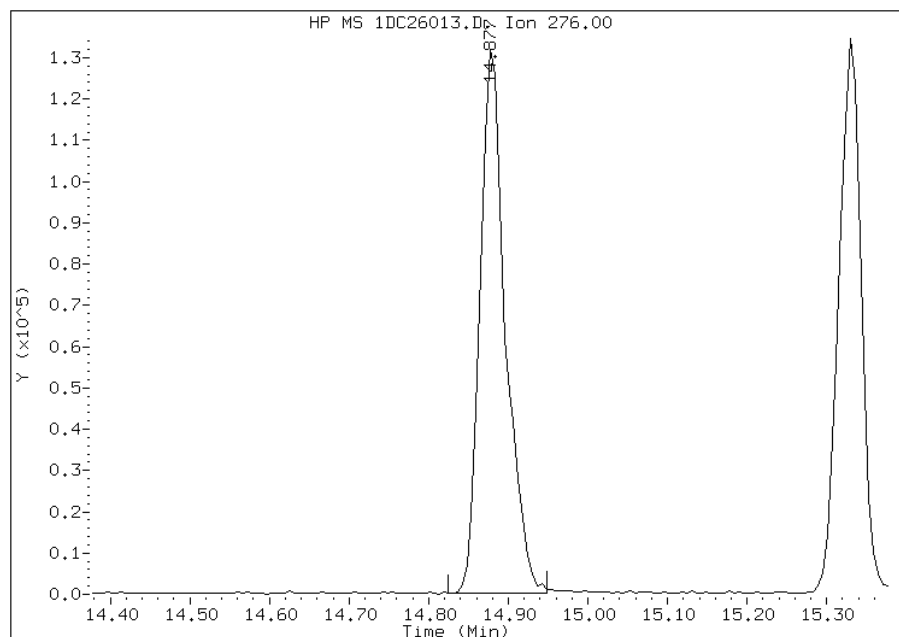


## Manual Integration Report

Data File: 1DC26013.D  
Inj. Date and Time: 26-MAR-2013 15:31  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

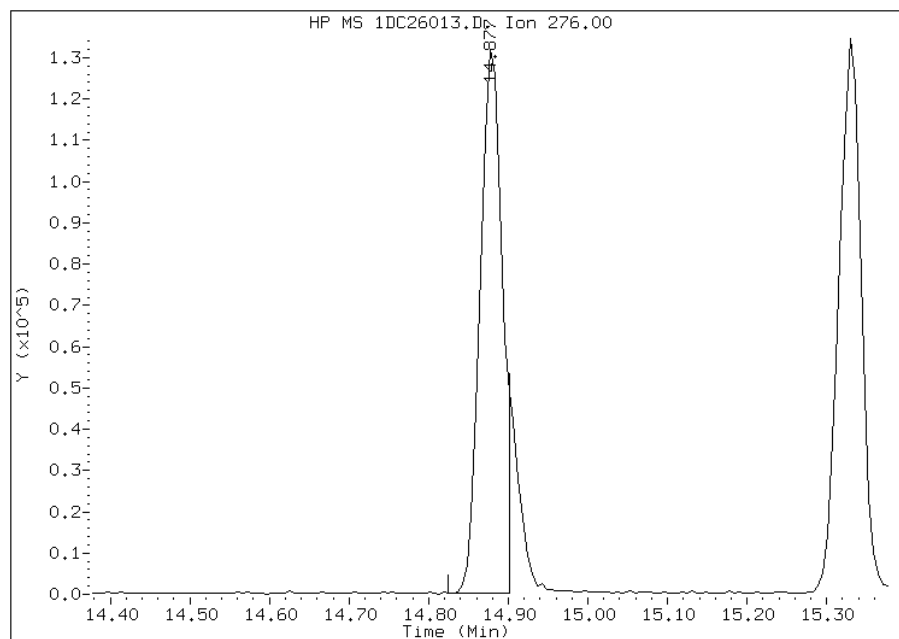
### Processing Integration Results

RT: 14.88  
Response: 292877  
Amount: 4  
Conc: 4



### Manual Integration Results

RT: 14.88  
Response: 255191  
Amount: 4  
Conc: 4



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 15:51  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135735/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DC26015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.05(g)</u>	Date Analyzed: <u>03/26/2013 16:16</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	467		100	20
208-96-8	Acenaphthylene	478		40	5.0
120-12-7	Anthracene	484		8.4	4.2
56-55-3	Benzo[a]anthracene	540		8.0	3.9
50-32-8	Benzo[a]pyrene	470		10	5.2
205-99-2	Benzo[b]fluoranthene	502		12	6.1
191-24-2	Benzo[g,h,i]perylene	456		20	4.4
207-08-9	Benzo[k]fluoranthene	511		8.0	3.6
218-01-9	Chrysene	486		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	492		20	4.1
206-44-0	Fluoranthene	496		20	4.0
86-73-7	Fluorene	495		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	465		20	7.1
90-12-0	1-Methylnaphthalene	518		40	4.4
91-57-6	2-Methylnaphthalene	495		40	7.1
91-20-3	Naphthalene	471		40	4.4
85-01-8	Phenanthrene	484		8.0	3.9
129-00-0	Pyrene	491		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26015.D  
 Lab Smp Id: LCS 660-135735/2-A  
 Inj Date : 26-MAR-2013 16:16  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCS 660-135735/2-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 15 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	15.050	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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								( ug/l)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.121	6.126	(1.000)		2511458	40.0000	
* 6 Acenaphthene-d10	164		7.801	7.800	(1.000)		1587786	40.0000	
* 9 Phenanthrene-d10	188		9.064	9.063	(1.000)		2548543	40.0000	
\$ 13 o-Terphenyl	230		9.370	9.375	(1.034)		291946	7.40778	490
* 17 Chrysene-d12	240		11.397	11.402	(1.000)		2494983	40.0000	
* 22 Perylene-d12	264		13.260	13.270	(1.000)		2552128	40.0000	
2 Naphthalene	128		6.144	6.149	(1.004)		476136	7.08713	470
3 2-Methylnaphthalene	142		6.849	6.848	(1.119)		318678	7.44639	490
4 1-Methylnaphthalene	142		6.938	6.942	(1.133)		312308	7.79293	520
5 Acenaphthylene	152		7.672	7.677	(0.983)		503623	7.19445	480
7 Acenaphthene	154		7.825	7.829	(1.003)		299938	7.02730	470
8 Fluorene	166		8.271	8.270	(1.060)		371837	7.45637	500
10 Phenanthrene	178		9.082	9.087	(1.002)		526721	7.28071	480
11 Anthracene	178		9.123	9.128	(1.006)		527141	7.28271	480

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l )	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.264	9.269	(1.022)	437052	6.75435	450
14 Fluoranthene	202	10.063	10.068	(1.110)	563208	7.46000	500
15 Pyrene	202	10.251	10.256	(0.899)	572425	7.39643	490
16 Benzo(a)anthracene	228	11.379	11.384	(0.998)	555431	8.13138	540
18 Chrysene	228	11.420	11.431	(1.002)	516127	7.31888	490
19 Benzo(b)fluoranthene	252	12.701	12.712	(0.958)	496774	7.56225	500
20 Benzo(k)fluoranthene	252	12.737	12.753	(0.961)	528874	7.68925	510
21 Benzo(a)pyrene	252	13.160	13.170	(0.992)	460181	7.07896	470
23 Indeno(1,2,3-cd)pyrene	276	14.869	14.886	(1.121)	485244	6.99458	460(M)
24 Dibenzo(a,h)anthracene	278	14.893	14.915	(1.123)	474224	7.40179	490
25 Benzo(g,h,i)perylene	276	15.316	15.344	(1.155)	453930	6.86273	460

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26015.D

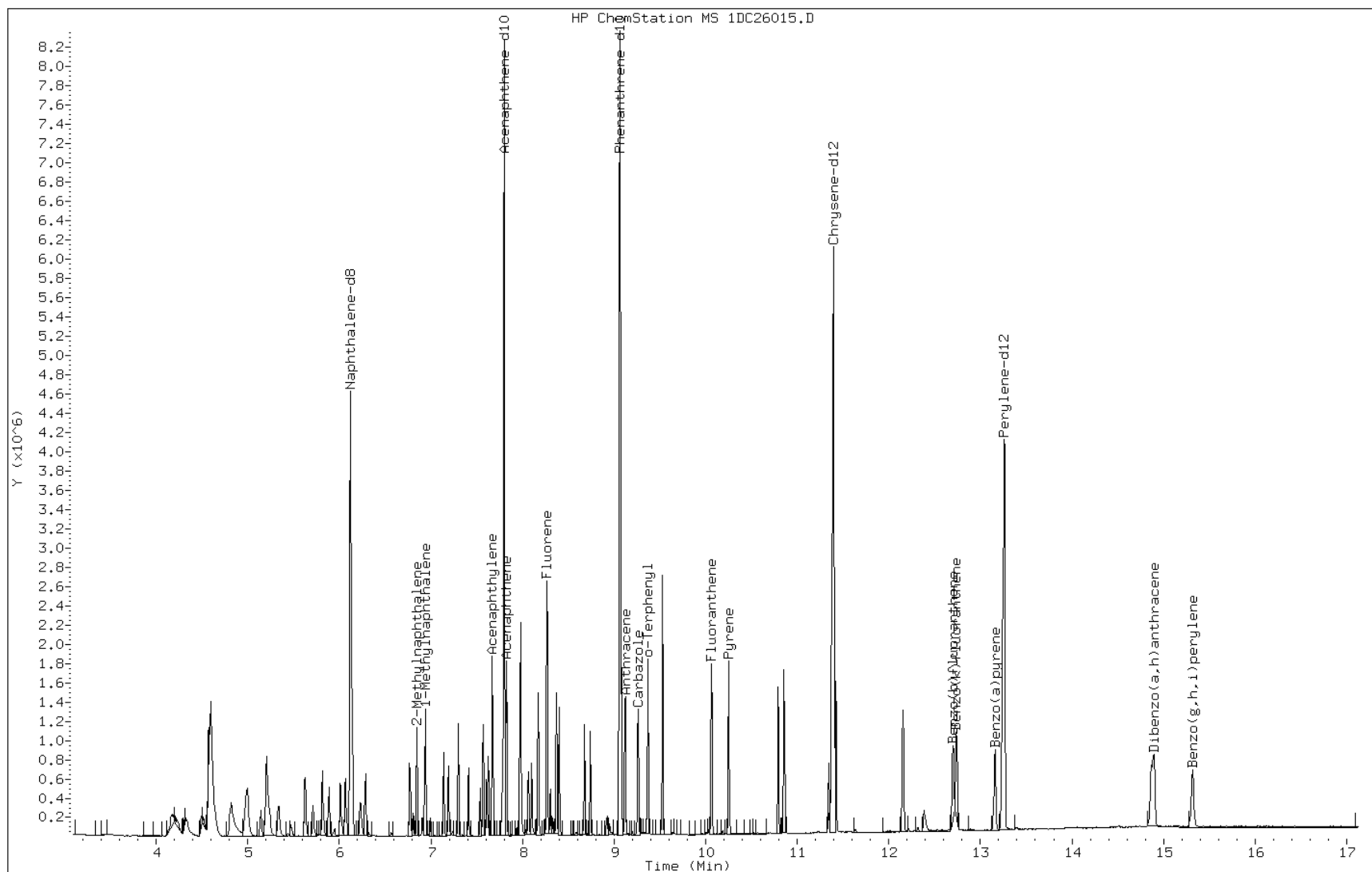
Date: 26-MAR-2013 16:16

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135735/2-A

Operator: SCC



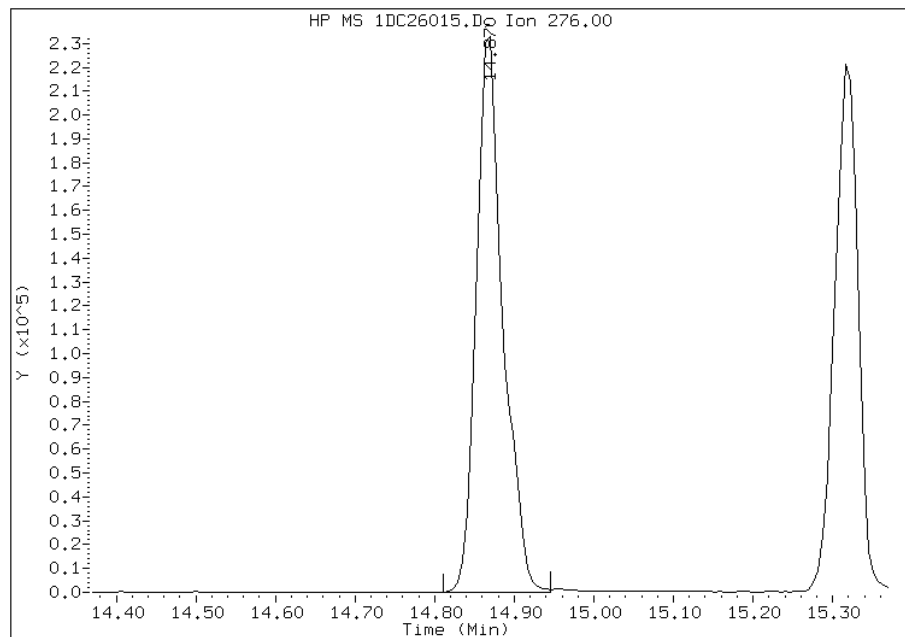


## Manual Integration Report

Data File: 1DC26015.D  
Inj. Date and Time: 26-MAR-2013 16:16  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

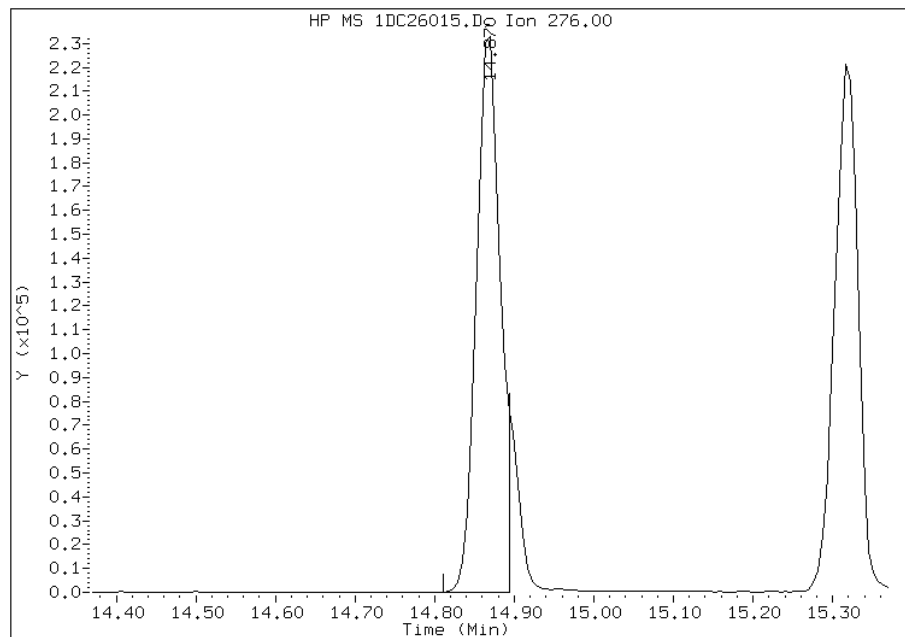
### Processing Integration Results

RT: 14.87  
Response: 540417  
Amount: 8  
Conc: 518



### Manual Integration Results

RT: 14.87  
Response: 485244  
Amount: 7  
Conc: 465



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:01  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-135754/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.31(g)</u>	Date Analyzed: <u>03/28/2013 15:04</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560		98	20
208-96-8	Acenaphthylene	589		39	4.9
120-12-7	Anthracene	581		8.2	4.1
56-55-3	Benzo[a]anthracene	617		7.8	3.8
50-32-8	Benzo[a]pyrene	595		10	5.1
205-99-2	Benzo[b]fluoranthene	631		12	6.0
191-24-2	Benzo[g,h,i]perylene	585		20	4.3
207-08-9	Benzo[k]fluoranthene	644		7.8	3.5
218-01-9	Chrysene	597		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	604		20	4.0
206-44-0	Fluoranthene	612		20	3.9
86-73-7	Fluorene	593		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	608		20	7.0
90-12-0	1-Methylnaphthalene	619		39	4.3
91-57-6	2-Methylnaphthalene	636		39	7.0
91-20-3	Naphthalene	612		39	4.3
85-01-8	Phenanthrene	547		7.8	3.8
129-00-0	Pyrene	647		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28013.D  
Lab Smp Id: lcs 660-135754/2-a  
Inj Date : 28-MAR-2013 15:04  
Operator : SCC  
Smp Info : lcs 660-135754/2-a  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28013.D  
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
Als bottle: 13 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.14  
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	707514	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	575821	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1089761	40.0000			
\$ 14 o-Terphenyl	230	6.009	6.010	(1.044)	148035	8.99716	587.6652		
* 18 Chrysene-d12	240	7.698	7.704	(1.000)	1256595	40.0000			
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1278924	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	172471	9.36362	611.6016		
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	119553	9.73047	635.5630		
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	106023	9.47478	618.8622		
5 Acenaphthylene	152	4.721	4.722	(0.982)	209256	9.01371	588.7468		
7 Acenaphthene	154	4.827	4.833	(1.004)	123743	8.57563	560.1327		
9 Fluorene	166	5.151	5.151	(1.071)	165619	9.07558	592.7877		
11 Phenanthrene	178	5.774	5.774	(1.003)	263826	8.37249	546.8638		
12 Anthracene	178	5.809	5.810	(1.009)	274225	8.89831	581.2093		

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.915	5.921	(1.028)	261472	9.54461	623.4233
15 Fluoranthene	202	6.609	6.616	(1.148)	323577	9.37675	612.4592
16 Pyrene	202	6.780	6.780	(0.881)	334298	9.89950	646.6034
17 Benzo(a)anthracene	228	7.692	7.698	(0.999)	342836	9.45291	617.4339
19 Chrysene	228	7.721	7.721	(1.003)	331927	9.14525	597.3385
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	322986	9.66357	631.1935
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	337961	9.85687	643.8190
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	295946	9.11593	595.4230
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	284105	9.30269	607.6214(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	276126	9.24348	603.7543
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	286052	8.95381	584.8340

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28013.D

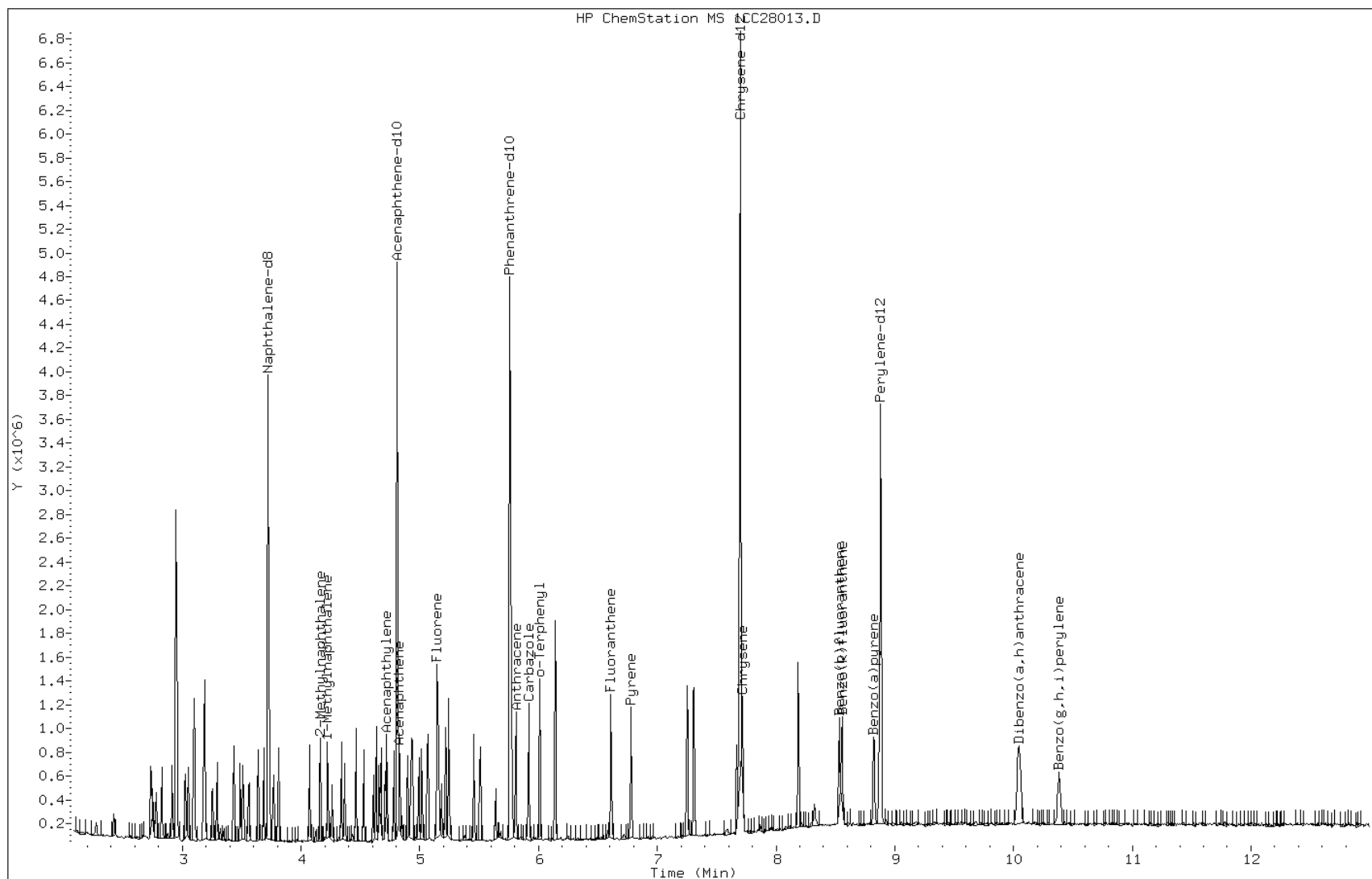
Date: 28-MAR-2013 15:04

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135754/2-a

Operator: SCC

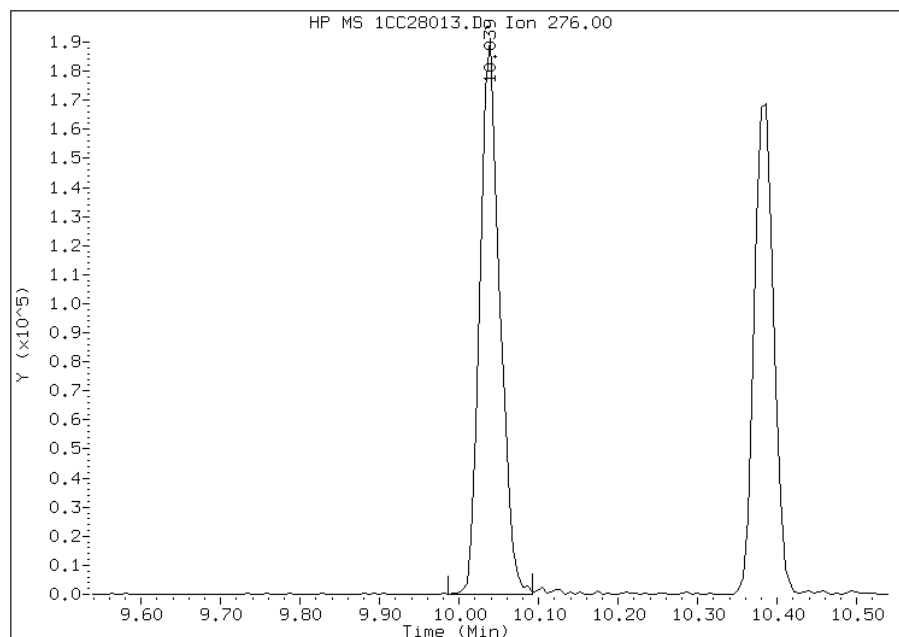


## Manual Integration Report

Data File: 1CC28013.D  
Inj. Date and Time: 28-MAR-2013 15:04  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

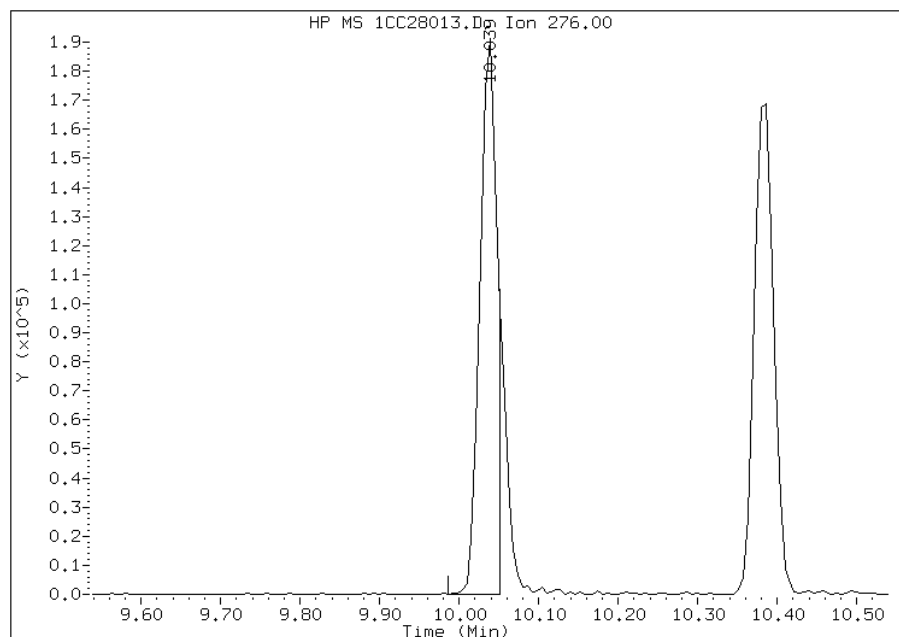
### Processing Integration Results

RT: 10.04  
Response: 329080  
Amount: 11  
Conc: 704



### Manual Integration Results

RT: 10.04  
Response: 284105  
Amount: 9  
Conc: 608



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 16:59  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 660-135697/3-A  
 Matrix: Water Lab File ID: 1DC25007.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3520C Date Extracted: 03/22/2013 15:26  
 Sample wt/vol: 1000 (mL) Date Analyzed: 03/25/2013 12:02  
 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.: 135796 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.75		2.0	0.50
208-96-8	Acenaphthylene	7.02		1.0	0.25
120-12-7	Anthracene	6.83		0.20	0.076
56-55-3	Benzo[a]anthracene	7.09		0.20	0.050
50-32-8	Benzo[a]pyrene	4.98		0.20	0.057
205-99-2	Benzo[b]fluoranthene	5.58		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	4.24		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.37		0.20	0.057
218-01-9	Chrysene	6.38		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	4.06		0.20	0.050
206-44-0	Fluoranthene	7.23		0.50	0.054
86-73-7	Fluorene	7.38		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.94		0.20	0.050
90-12-0	1-Methylnaphthalene	7.23		2.0	0.50
91-57-6	2-Methylnaphthalene	6.96		2.0	0.50
91-20-3	Naphthalene	6.83		2.0	0.25
85-01-8	Phenanthrene	7.00		0.50	0.20
129-00-0	Pyrene	6.94		0.50	0.089

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25007.D  
 Lab Smp Id: LCSD 660-135697/3-A  
 Inj Date : 25-MAR-2013 12:02  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCSD 660-135697/3-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\dFASTPAHi.m  
 Meth Date : 25-Mar-2013 10:50 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 7 QC Sample: LCSD  
 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	FINAL
								( ug/l)	( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.125	6.125	(1.000)	2646675	40.0000			
* 6 Acenaphthene-d10	164	7.799	7.800	(1.000)	1594693	40.0000			
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2644079	40.0000			
\$ 13 o-Terphenyl	230	9.368	9.374	(1.034)	274043	6.70227		6.7	
* 17 Chrysene-d12	240	11.395	11.407	(1.000)	2701890	40.0000			
* 22 Perylene-d12	264	13.258	13.270	(1.000)	2777641	40.0000			
2 Naphthalene	128	6.142	6.149	(1.003)	483645	6.83111		6.8	
3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	313711	6.95583		7.0	
4 1-Methylnaphthalene	142	6.936	6.942	(1.132)	305173	7.22585		7.2	
5 Acenaphthylene	152	7.670	7.676	(0.983)	493577	7.02040		7.0	
7 Acenaphthene	154	7.823	7.829	(1.003)	289468	6.75263		6.8	
8 Fluorene	166	8.269	8.275	(1.060)	369681	7.38103		7.4	
10 Phenanthrene	178	9.080	9.086	(1.002)	525192	6.99727		7.0	
11 Anthracene	178	9.121	9.127	(1.006)	512632	6.82637		6.8	
12 Carbazole	167	9.256	9.263	(1.021)	396783	5.91046		5.9	
14 Fluoranthene	202	10.061	10.068	(1.110)	566099	7.22736		7.2	
15 Pyrene	202	10.249	10.261	(0.899)	581902	6.94310		6.9	



Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						( ug/l)	( ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
16 Benzo(a)anthracene	228	11.378	11.384	(0.998)	524164	7.08600	7.1	
18 Chrysene	228	11.419	11.431	(1.002)	487120	6.37858	6.4	
19 Benzo(b)fluoranthene	252	12.694	12.711	(0.957)	398978	5.58043	5.6	
20 Benzo(k)fluoranthene	252	12.729	12.753	(0.960)	402174	5.37245	5.4	
21 Benzo(a)pyrene	252	13.152	13.170	(0.992)	352421	4.98114	5.0	
23 Indeno(1,2,3-cd)pyrene	276	14.850	14.885	(1.120)	297603	3.94153	3.9(M)	
24 Dibenzo(a,h)anthracene	278	14.879	14.915	(1.122)	283193	4.06127	4.1	
25 Benzo(g,h,i)perylene	276	15.296	15.344	(1.154)	305099	4.23814	4.2	

# QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC25007.D

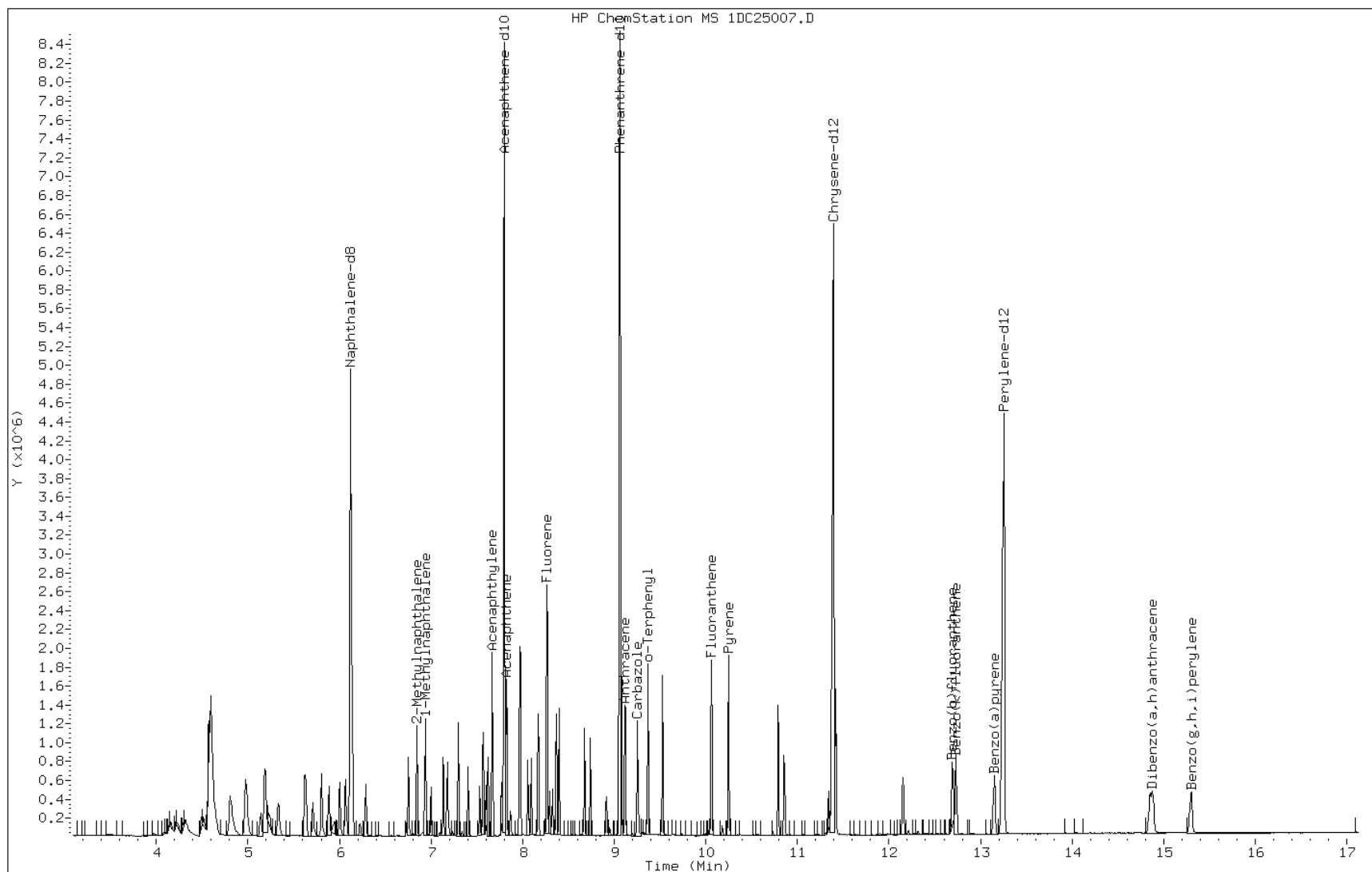
Date: 25-MAR-2013 12:02

Client ID:

Instrument: BSMSD.i

Sample Info: LCSD 660-135697/3-A

Operator: SCC

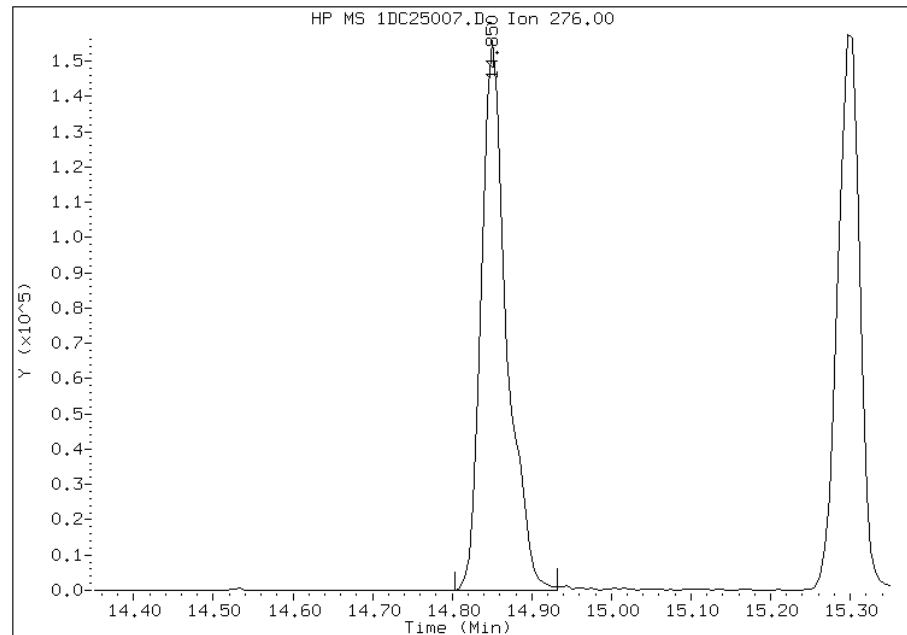


## Manual Integration Report

Data File: 1DC25007.D  
Inj. Date and Time: 25-MAR-2013 12:02  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

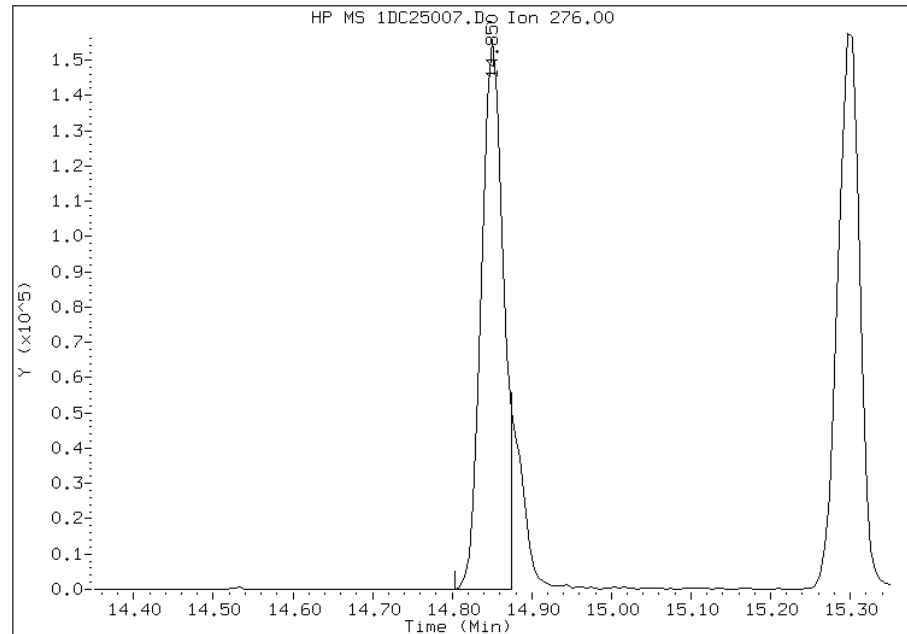
### Processing Integration Results

RT: 14.85  
Response: 344158  
Amount: 5  
Conc: 5



### Manual Integration Results

RT: 14.85  
Response: 297603  
Amount: 4  
Conc: 4



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 15:16  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88527-A-5-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DC26020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.19(g)</u>	Date Analyzed: <u>03/26/2013 18:09</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>35.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	874		150	31
208-96-8	Acenaphthylene	888		62	7.7
120-12-7	Anthracene	928		13	6.5
56-55-3	Benzo[a]anthracene	1080		12	6.0
50-32-8	Benzo[a]pyrene	960		16	8.0
205-99-2	Benzo[b]fluoranthene	1090		19	9.4
191-24-2	Benzo[g,h,i]perylene	969		31	6.8
207-08-9	Benzo[k]fluoranthene	985		12	5.5
218-01-9	Chrysene	1010		14	6.9
53-70-3	Dibenz(a,h)anthracene	980		31	6.3
206-44-0	Fluoranthene	1100		31	6.2
86-73-7	Fluorene	922		31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	918		31	11
90-12-0	1-Methylnaphthalene	964		62	6.8
91-57-6	2-Methylnaphthalene	930		62	11
91-20-3	Naphthalene	877		62	6.8
85-01-8	Phenanthrene	988		12	6.0
129-00-0	Pyrene	1050		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26020.D  
 Lab Smp Id: 680-88527-A-5-B MS  
 Inj Date : 26-MAR-2013 18:09  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-A-5-B MS  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 20 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	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

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.125	6.126	(1.000)	2344636	40.0000	
*	6 Acenaphthene-d10	164	7.799	7.800	(1.000)	1467795	40.0000	
*	9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2352101	40.0000	
\$	13 o-Terphenyl	230	9.368	9.375	(1.034)	323479	8.89340	580
*	17 Chrysene-d12	240	11.395	11.402	(1.000)	2317614	40.0000	
*	22 Perylene-d12	264	13.264	13.270	(1.000)	2389530	40.0000	
	2 Naphthalene	128	6.143	6.149	(1.003)	536198	8.54899	560
	3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	362403	9.07060	600
	4 1-Methylnaphthalene	142	6.936	6.942	(1.132)	351663	9.39929	620
	5 Acenaphthylene	152	7.670	7.677	(0.983)	560270	8.65797	570
	7 Acenaphthene	154	7.823	7.829	(1.003)	336342	8.52442	560
	8 Fluorene	166	8.270	8.270	(1.060)	414336	8.98781	590
	10 Phenanthrene	178	9.080	9.087	(1.002)	642907	9.62892	630
	11 Anthracene	178	9.121	9.128	(1.006)	604700	9.05196	600

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l )	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.262	9.269	(1.022)	482647	8.08195	530
14 Fluoranthene	202	10.067	10.068	(1.111)	747530	10.7284	710
15 Pyrene	202	10.255	10.256	(0.900)	733768	10.2068	670
16 Benzo(a)anthracene	228	11.384	11.384	(0.999)	668547	10.5364	690
18 Chrysene	228	11.425	11.431	(1.003)	641969	9.80005	640
19 Benzo(b)fluoranthene	252	12.706	12.712	(0.958)	652304	10.6055	700
20 Benzo(k)fluoranthene	252	12.741	12.753	(0.961)	618658	9.60666	630
21 Benzo(a)pyrene	252	13.164	13.170	(0.992)	569415	9.35534	620
23 Indeno(1,2,3-cd)pyrene	276	14.874	14.886	(1.121)	581208	8.94794	590(M)
24 Dibenzo(a,h)anthracene	278	14.897	14.915	(1.123)	572939	9.55106	630
25 Benzo(g,h,i)perylene	276	15.320	15.344	(1.155)	585221	9.44970	620

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26020.D

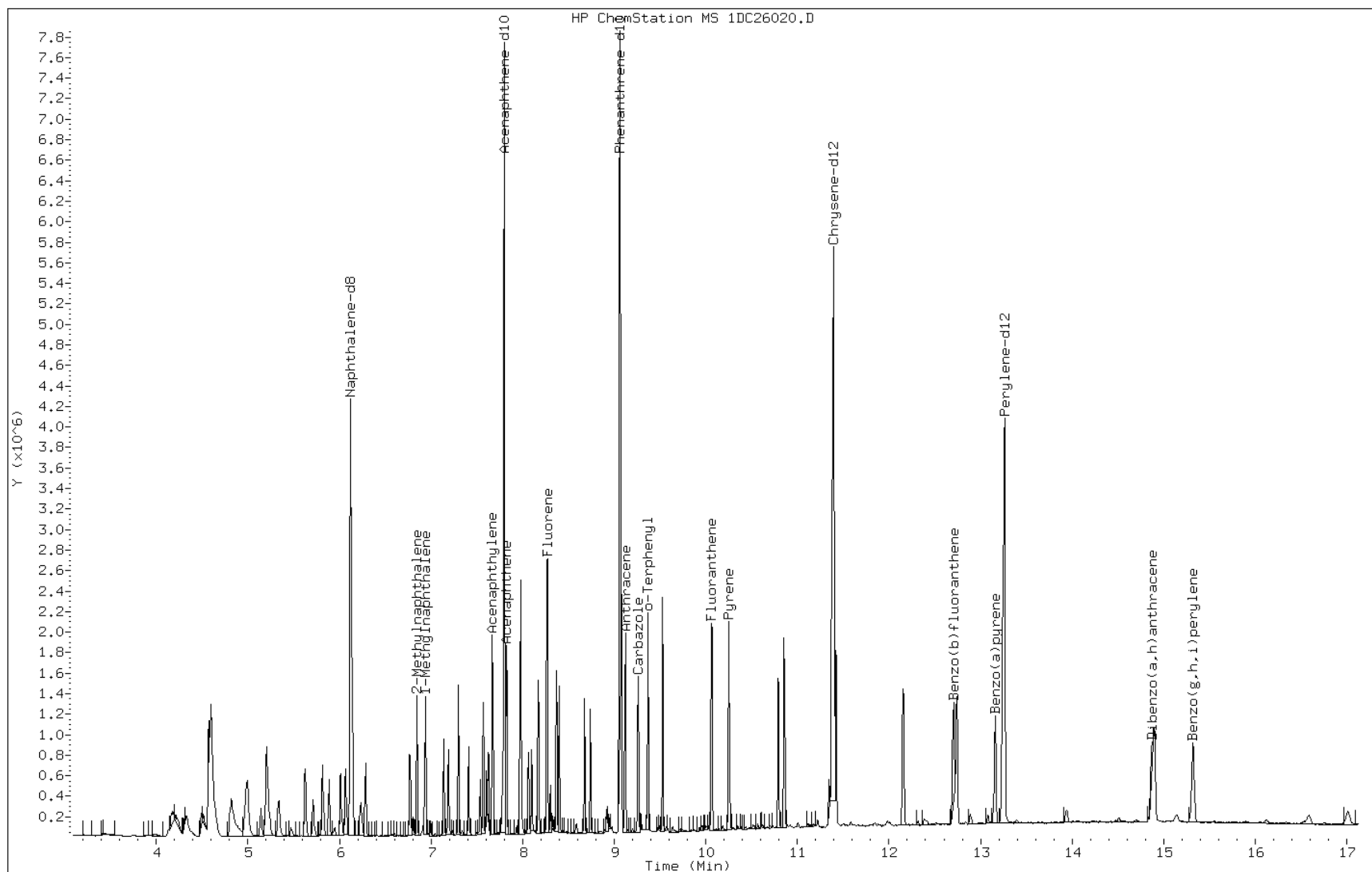
Date: 26-MAR-2013 18:09

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88527-A-5-B MS

Operator: SCC

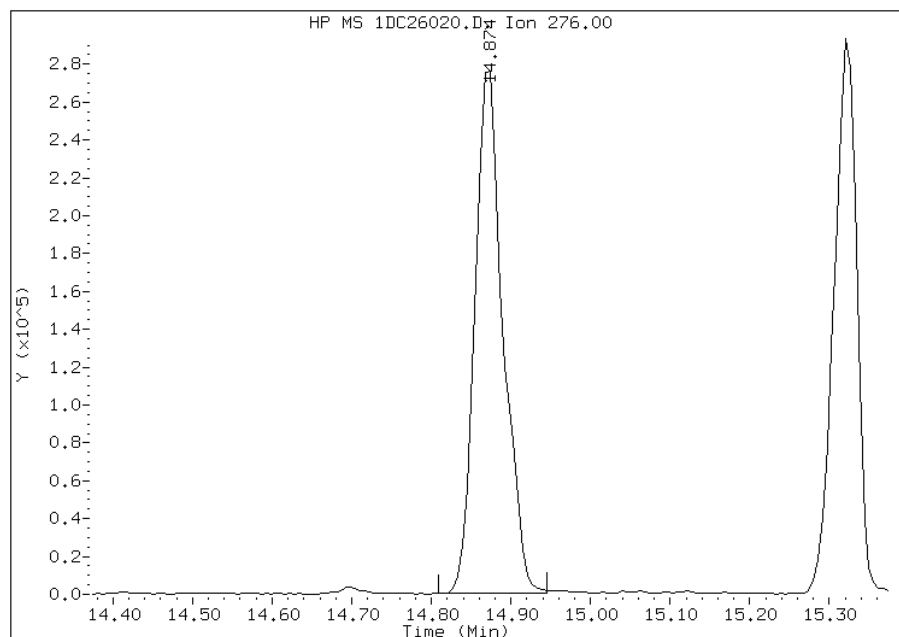


## Manual Integration Report

Data File: 1DC26020.D  
Inj. Date and Time: 26-MAR-2013 18:09  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

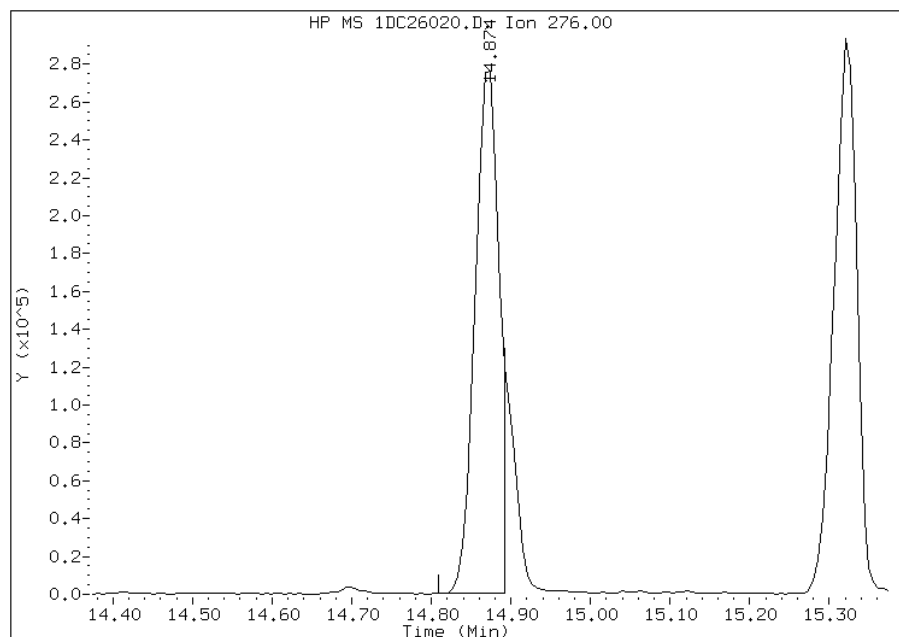
### Processing Integration Results

RT: 14.87  
Response: 676863  
Amount: 10  
Conc: 686



### Manual Integration Results

RT: 14.87  
Response: 581208  
Amount: 9  
Conc: 589



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:16  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360L-CS MS</u>	Lab Sample ID: <u>680-88527-21 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.21(g)</u>	Date Analyzed: <u>03/28/2013 15:41</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>40.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	838		170	33
208-96-8	Acenaphthylene	903		66	8.3
120-12-7	Anthracene	920		14	6.9
56-55-3	Benzo[a]anthracene	904		13	6.4
50-32-8	Benzo[a]pyrene	933		17	8.6
205-99-2	Benzo[b]fluoranthene	977		20	10
191-24-2	Benzo[g,h,i]perylene	847		33	7.3
207-08-9	Benzo[k]fluoranthene	959		13	5.9
218-01-9	Chrysene	933		15	7.4
53-70-3	Dibenz(a,h)anthracene	876		33	6.8
206-44-0	Fluoranthene	1040		33	6.6
86-73-7	Fluorene	898		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	806		33	12
90-12-0	1-Methylnaphthalene	981		66	7.3
91-57-6	2-Methylnaphthalene	912		66	12
91-20-3	Naphthalene	949		66	7.3
85-01-8	Phenanthrene	938		13	6.4
129-00-0	Pyrene	1060		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28015.D  
Lab Smp Id: 680-88527-a-21-b ms  
Inj Date : 28-MAR-2013 15:41  
Operator : SCC  
Smp Info : 680-88527-a-21-b ms  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28015.D  
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
Als bottle: 15 QC Sample: MS  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.14  
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	757603	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	608144	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1106477	40.0000			
\$ 14 o-Terphenyl	230	6.009	6.010	(1.044)	119191	7.13466	469.0767		
* 18 Chrysene-d12	240	7.703	7.704	(1.000)	1334075	40.0000			
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1313910	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	170091	8.62387	566.9871		
3 2-Methylnaphthalene	142	4.162	4.163	(1.119)	108959	8.28190	544.5034		
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	106829	8.91562	586.1683		
5 Acenaphthylene	152	4.721	4.722	(0.982)	201219	8.20684	539.5686		
7 Acenaphthene	154	4.827	4.833	(1.004)	116059	7.61562	500.6984		
9 Fluorene	166	5.151	5.151	(1.071)	157186	8.15566	536.2039		
11 Phenanthrene	178	5.774	5.774	(1.003)	272664	8.52223	560.3046		
12 Anthracene	178	5.809	5.810	(1.009)	261537	8.35839	549.5326		

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.915	5.921	(1.028)	237429	8.53603	561.2113
15 Fluoranthene	202	6.609	6.616	(1.148)	330705	9.43853	620.5476
16 Pyrene	202	6.780	6.780	(0.880)	343634	9.58497	630.1753
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	316131	8.21035	539.7991
19 Chrysene	228	7.721	7.721	(1.002)	326493	8.47310	557.0740
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	304672	8.87290	583.3598
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	306914	8.71301	572.8475
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	282705	8.47620	557.2777
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	229842	7.32551	481.6246(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	244128	7.95472	522.9927
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	252574	7.69539	505.9427

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28015.D

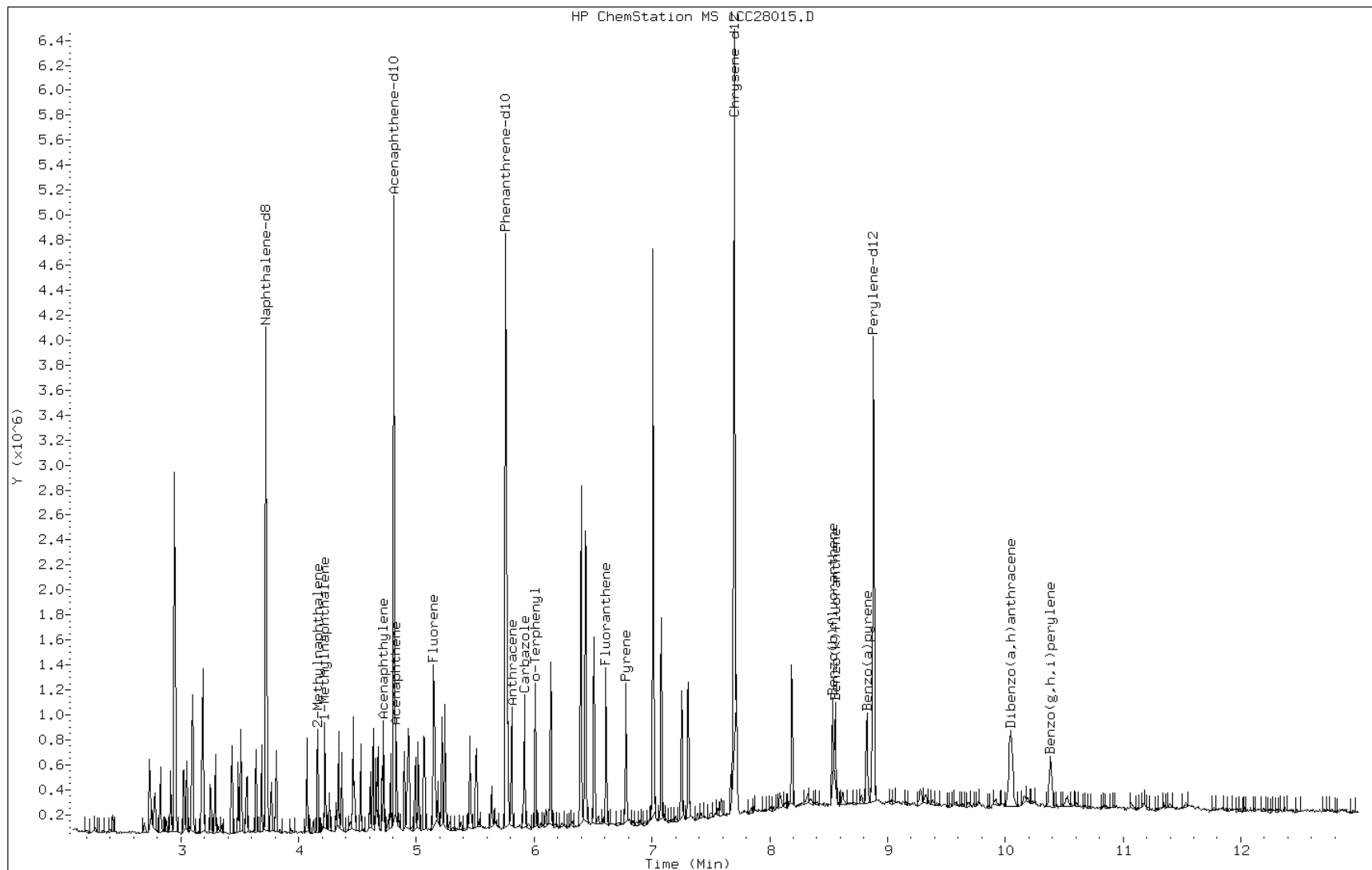
Date: 28-MAR-2013 15:41

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-b ms

Operator: SCC

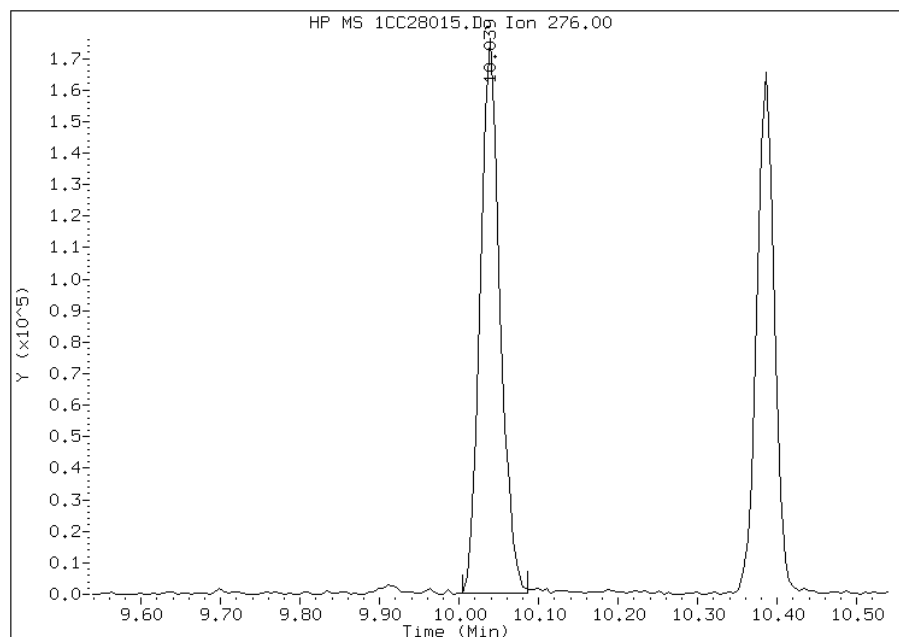


## Manual Integration Report

Data File: 1CC28015.D  
Inj. Date and Time: 28-MAR-2013 15:41  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

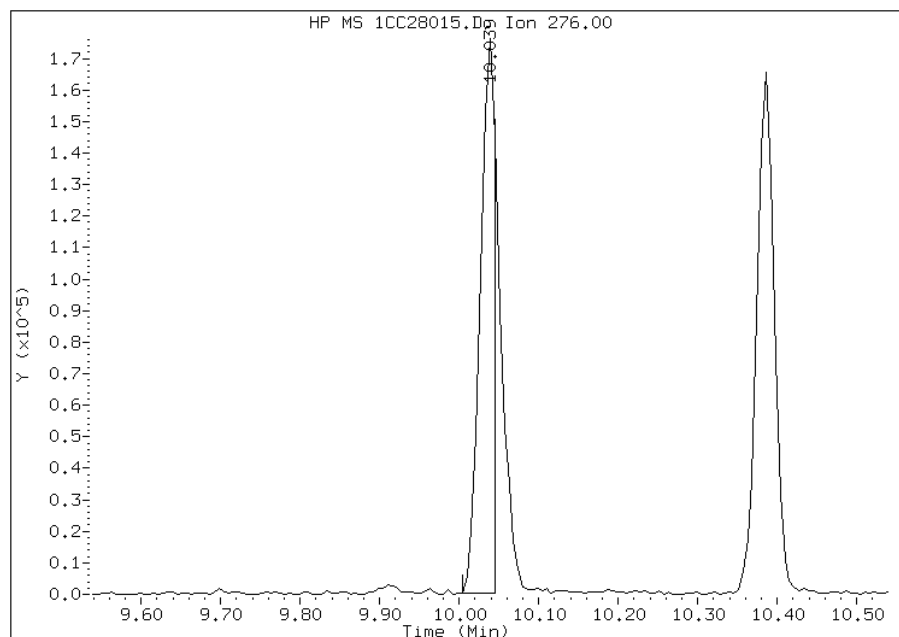
### Processing Integration Results

RT: 10.04  
Response: 302325  
Amount: 10  
Conc: 634



### Manual Integration Results

RT: 10.04  
Response: 229842  
Amount: 7  
Conc: 482



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:04  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2  
 SDG No.: 68088527-2  
 Client Sample ID: 032013-RB-Bowls + Spoons Lab Sample ID: 680-88527-34 MS  
 Matrix: Water Lab File ID: 1DC25025.D  
 Analysis Method: 8270C LL Date Collected: 03/20/2013 10:30  
 Extract. Method: 3520C Date Extracted: 03/22/2013 15:26  
 Sample wt/vol: 1010 (mL) Date Analyzed: 03/25/2013 18:49  
 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.: 135796 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	5.95		2.0	0.50
208-96-8	Acenaphthylene	6.16		0.99	0.25
120-12-7	Anthracene	6.02		0.20	0.075
56-55-3	Benzo[a]anthracene	6.31		0.20	0.050
50-32-8	Benzo[a]pyrene	4.73		0.20	0.056
205-99-2	Benzo[b]fluoranthene	5.27		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.58		0.50	0.099
207-08-9	Benzo[k]fluoranthene	4.88		0.20	0.056
218-01-9	Chrysene	5.79		0.20	0.068
53-70-3	Dibenz(a,h)anthracene	3.66		0.20	0.050
206-44-0	Fluoranthene	6.30		0.50	0.053
86-73-7	Fluorene	6.21		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.46		0.20	0.050
90-12-0	1-Methylnaphthalene	6.55		2.0	0.50
91-57-6	2-Methylnaphthalene	6.27		2.0	0.50
91-20-3	Naphthalene	6.00		2.0	0.25
85-01-8	Phenanthrene	6.08		0.50	0.20
129-00-0	Pyrene	6.19		0.50	0.088

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\1DC25025.D  
 Lab Smp Id: 680-88527-B-34-A MS  
 Inj Date : 25-MAR-2013 18:49  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-B-34-A MS  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032513.b\dFASTPAHi.m  
 Meth Date : 25-Mar-2013 10:50 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 25 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	1010.000	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	FINAL
							( ug/l)	( ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8		136	6.126	6.125 (1.000)		3091911	40.0000	
* 6 Acenaphthene-d10		164	7.807	7.800 (1.000)		1947517	40.0000	
* 9 Phenanthrene-d10		188	9.064	9.063 (1.000)		3159966	40.0000	
\$ 13 o-Terphenyl		230	9.370	9.374 (1.034)		288488	5.90368	5.8
* 17 Chrysene-d12		240	11.403	11.407 (1.000)		3116625	40.0000	
* 22 Perylene-d12		264	13.271	13.270 (1.000)		3199516	40.0000	
2 Naphthalene		128	6.144	6.149 (1.003)		500848	6.05542	6.0
3 2-Methylnaphthalene		142	6.849	6.848 (1.118)		333443	6.32870	6.3
4 1-Methylnaphthalene		142	6.943	6.942 (1.133)		326623	6.62008	6.6
5 Acenaphthylene		152	7.672	7.676 (0.983)		534243	6.22217	6.2
7 Acenaphthene		154	7.830	7.829 (1.003)		314520	6.00781	5.9
8 Fluorene		166	8.271	8.275 (1.059)		383520	6.27009	6.2
10 Phenanthrene		178	9.082	9.086 (1.002)		551202	6.14488	6.1
11 Anthracene		178	9.123	9.127 (1.006)		545241	6.07525	6.0
12 Carbazole		167	9.264	9.263 (1.022)		456129	5.68523	5.6
14 Fluoranthene		202	10.069	10.068 (1.111)		595308	6.35947	6.3
15 Pyrene		202	10.257	10.261 (0.900)		604316	6.25102	6.2

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						( ug/l)	( ug/l)	
=====	=====	=====	=====	=====	=====	=====	=====	
16 Benzo(a)anthracene	228	11.385	11.384	(0.998)	543516	6.36985	6.3	
18 Chrysene	228	11.426	11.431	(1.002)	514751	5.84343	5.8	
19 Benzo(b)fluoranthene	252	12.707	12.711	(0.957)	438658	5.32643	5.3	
20 Benzo(k)fluoranthene	252	12.742	12.753	(0.960)	425293	4.93217	4.9	
21 Benzo(a)pyrene	252	13.165	13.170	(0.992)	389191	4.77553	4.7	
23 Indeno(1,2,3-cd)pyrene	276	14.875	14.885	(1.121)	303866	3.49383	3.4(M)	
24 Dibenzo(a,h)anthracene	278	14.898	14.915	(1.123)	296762	3.69471	3.6	
25 Benzo(g,h,i)perylene	276	15.322	15.344	(1.155)	299474	3.61148	3.6	

# QC Flag Legend

M - Compound response manually integrated.



Data File: 1DC25025.D

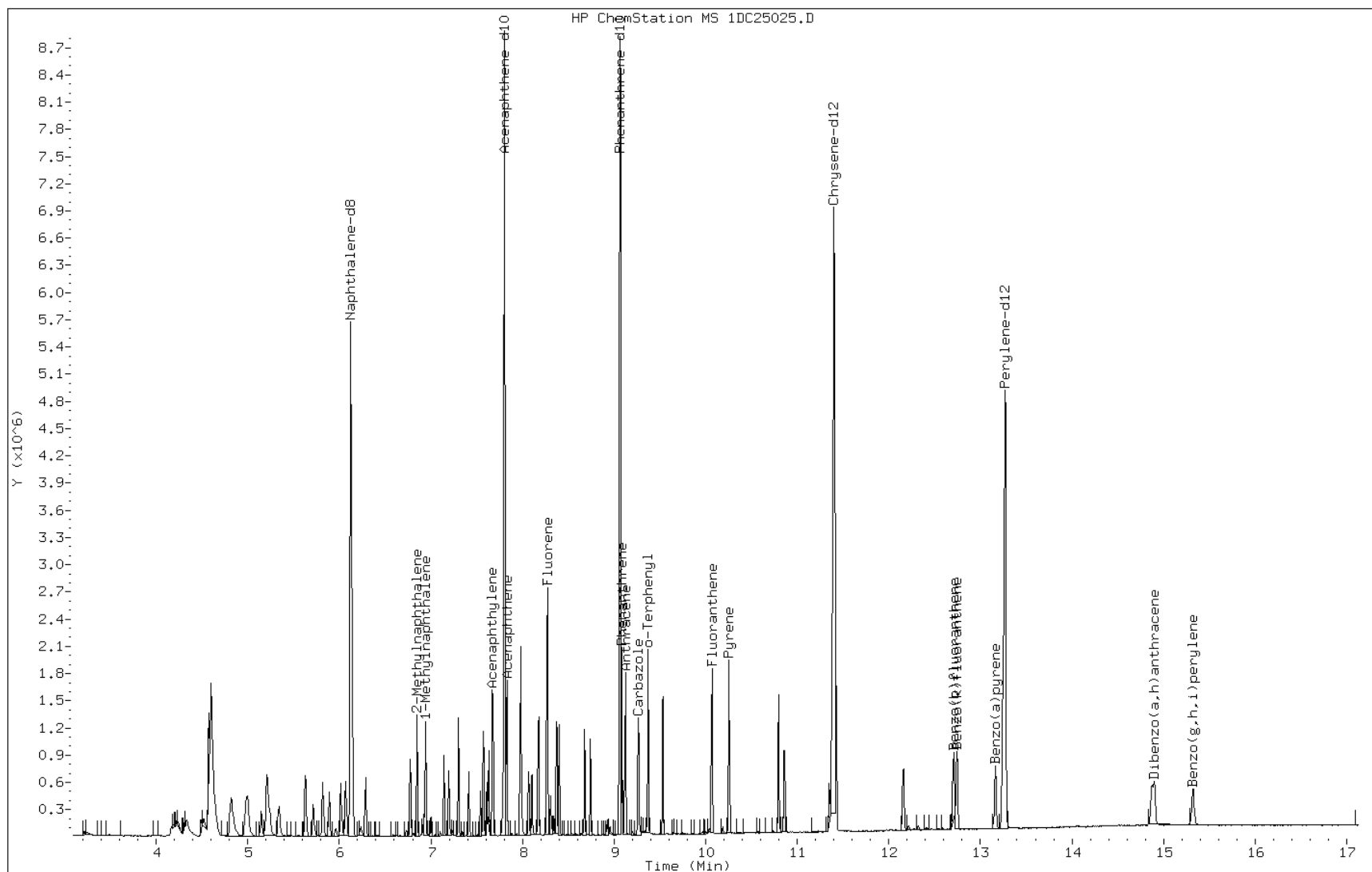
Date: 25-MAR-2013 18:49

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88527-B-34-A MS

Operator: SCC

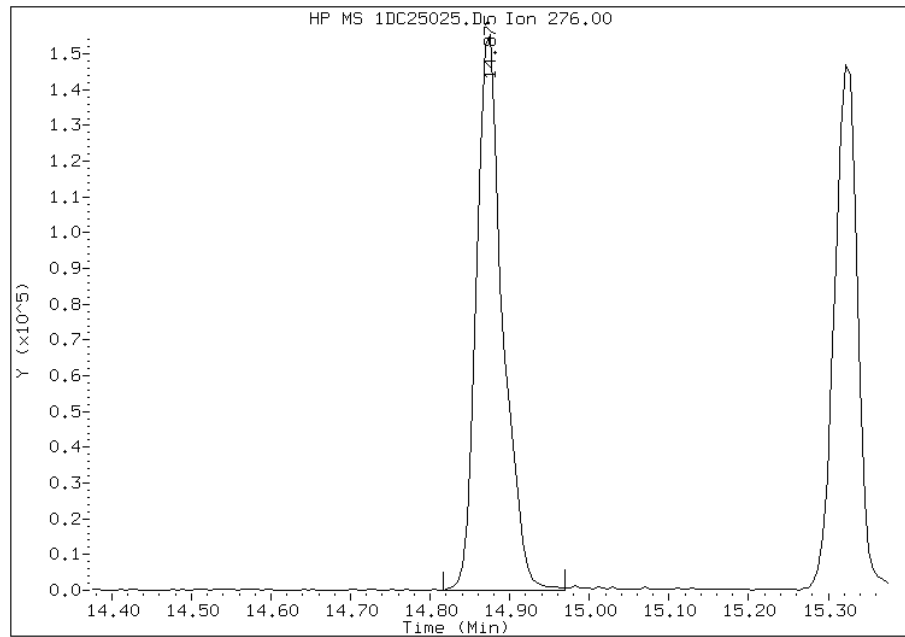


## Manual Integration Report

Data File: 1DC25025.D  
Inj. Date and Time: 25-MAR-2013 18:49  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/26/2013

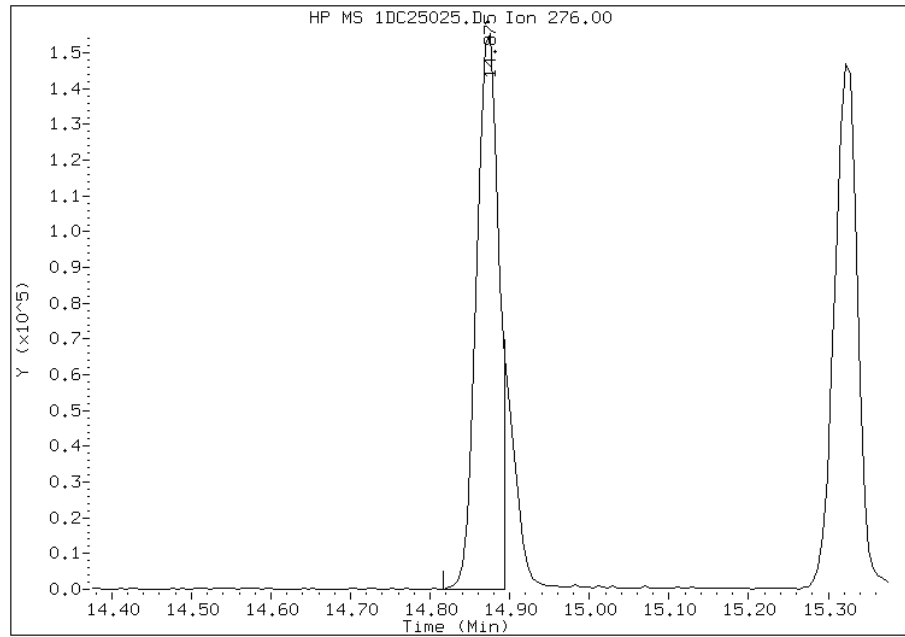
### Processing Integration Results

RT: 14.88  
Response: 356782  
Amount: 4  
Conc: 4



### Manual Integration Results

RT: 14.88  
Response: 303866  
Amount: 3  
Conc: 3



Manually Integrated By: cantins  
Modification Date: 26-Mar-2013 15:48  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-88527-A-5-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DC26021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 11:55</u>
Sample wt/vol: <u>15.19(g)</u>	Date Analyzed: <u>03/26/2013 18:31</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>35.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135792</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	856		150	31
208-96-8	Acenaphthylene	883		62	7.7
120-12-7	Anthracene	933		13	6.5
56-55-3	Benzo[a]anthracene	1110		12	6.0
50-32-8	Benzo[a]pyrene	996		16	8.0
205-99-2	Benzo[b]fluoranthene	1140		19	9.4
191-24-2	Benzo[g,h,i]perylene	984		31	6.8
207-08-9	Benzo[k]fluoranthene	983		12	5.5
218-01-9	Chrysene	1020		14	6.9
53-70-3	Dibenz(a,h)anthracene	971		31	6.3
206-44-0	Fluoranthene	1200		31	6.2
86-73-7	Fluorene	916		31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	946		31	11
90-12-0	1-Methylnaphthalene	967		62	6.8
91-57-6	2-Methylnaphthalene	931		62	11
91-20-3	Naphthalene	886		62	6.8
85-01-8	Phenanthrene	1000		12	6.0
129-00-0	Pyrene	1120		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26021.D  
 Lab Smp Id: 680-88527-A-5-C MSD  
 Inj Date : 26-MAR-2013 18:31  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88527-A-5-C MSD  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m  
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 21 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	15.190	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

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l )	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.120	6.126	(1.000)	2480915	40.0000	
*	6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1550501	40.0000	
*	9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2524842	40.0000	
\$	13 o-Terphenyl	230	9.369	9.375	(1.034)	338970	8.68170	570
*	17 Chrysene-d12	240	11.396	11.402	(1.000)	2463704	40.0000	
*	22 Perylene-d12	264	13.258	13.270	(1.000)	2549443	40.0000	
	2 Naphthalene	128	6.143	6.149	(1.004)	573067	8.63493	570
	3 2-Methylnaphthalene	142	6.848	6.848	(1.119)	383563	9.07287	600
	4 1-Methylnaphthalene	142	6.936	6.942	(1.133)	373185	9.42662	620
	5 Acenaphthylene	152	7.671	7.677	(0.983)	588175	8.60436	570
	7 Acenaphthene	154	7.824	7.829	(1.003)	347795	8.34450	550
	8 Fluorene	166	8.270	8.270	(1.060)	434736	8.92731	590
	10 Phenanthrene	178	9.081	9.087	(1.002)	700720	9.77677	640
	11 Anthracene	178	9.122	9.128	(1.006)	652207	9.09515	600

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l )	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.263	9.269	(1.022)	513913	8.01674	530
14 Fluoranthene	202	10.068	10.068	(1.111)	877601	11.7334	770
15 Pyrene	202	10.256	10.256	(0.900)	837534	10.9594	720
16 Benzo(a)anthracene	228	11.378	11.384	(0.998)	729903	10.8213	710
18 Chrysene	228	11.419	11.431	(1.002)	691953	9.93673	650
19 Benzo(b)fluoranthene	252	12.706	12.712	(0.958)	727299	11.0831	730
20 Benzo(k)fluoranthene	252	12.741	12.753	(0.961)	658346	9.58171	630
21 Benzo(a)pyrene	252	13.159	13.170	(0.992)	630749	9.71302	640
23 Indeno(1,2,3-cd)pyrene	276	14.868	14.886	(1.121)	638957	9.21998	610(M)
24 Dibenzo(a,h)anthracene	278	14.898	14.915	(1.124)	605673	9.46343	620
25 Benzo(g,h,i)perylene	276	15.327	15.344	(1.156)	633974	9.59482	630

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26021.D

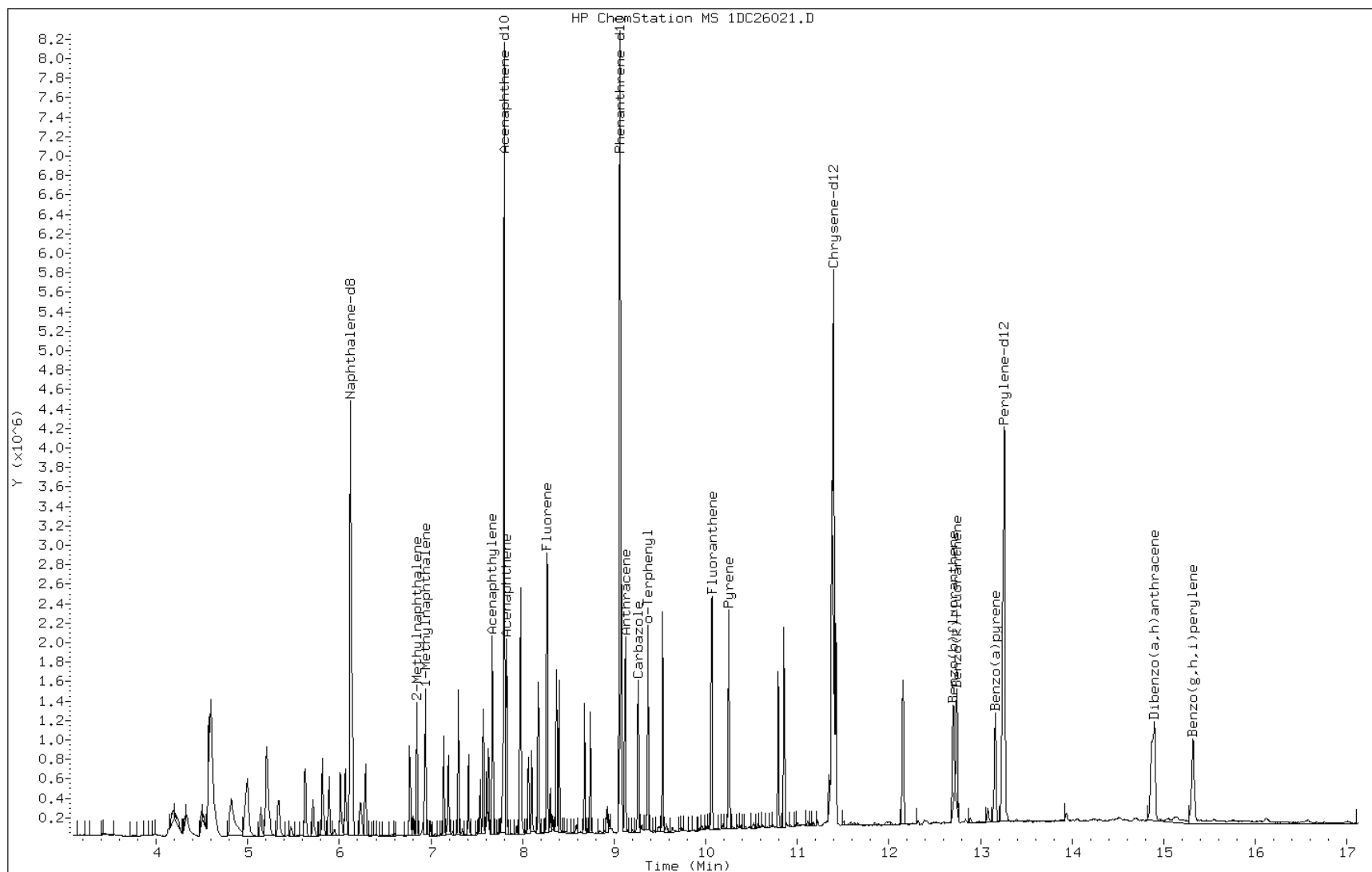
Date: 26-MAR-2013 18:31

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88527-A-5-C MSD

Operator: SCC

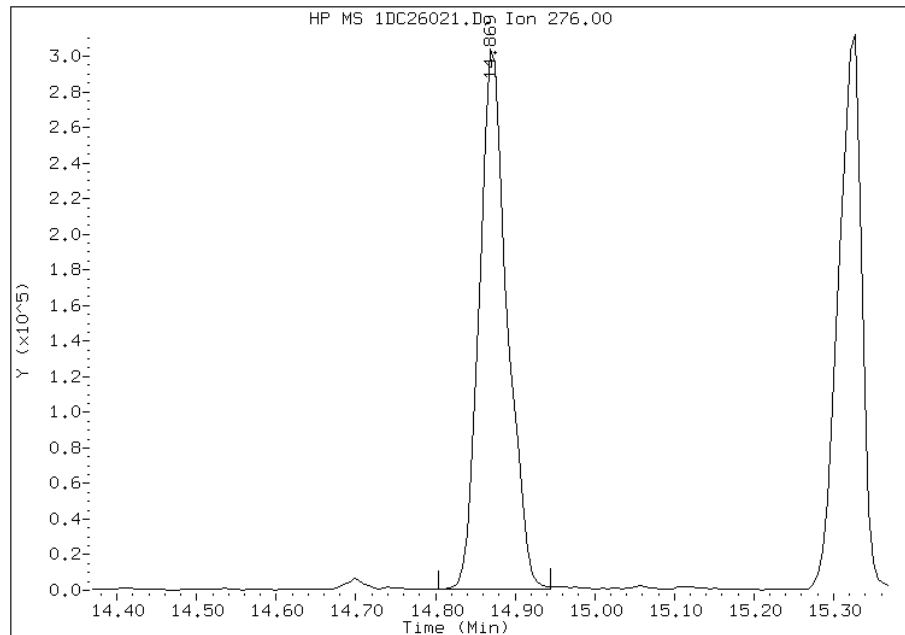


## Manual Integration Report

Data File: 1DC26021.D  
Inj. Date and Time: 26-MAR-2013 18:31  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

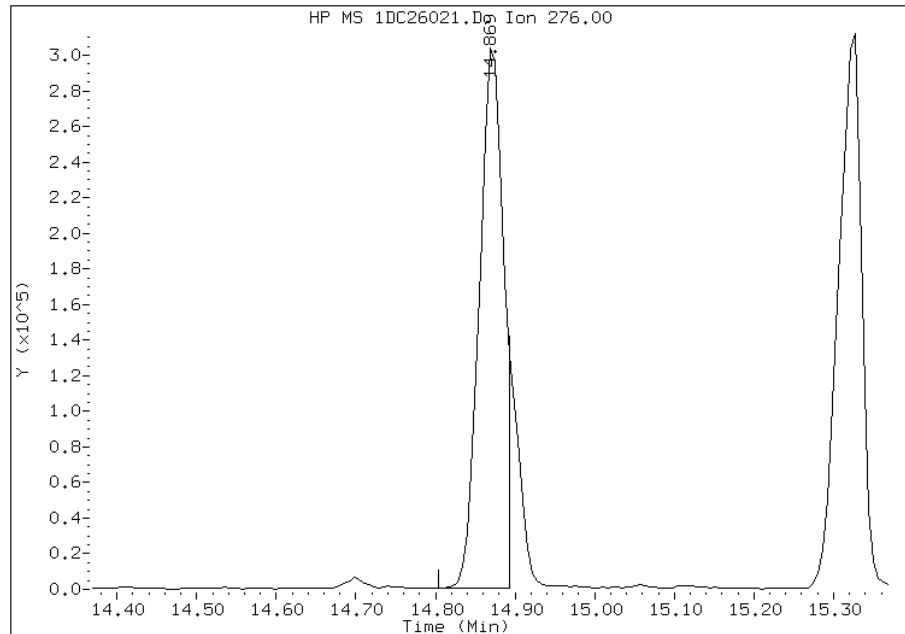
### Processing Integration Results

RT: 14.87  
Response: 739234  
Amount: 11  
Conc: 702



### Manual Integration Results

RT: 14.87  
Response: 638957  
Amount: 9  
Conc: 607



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 16:16  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88527-2</u>
SDG No.: <u>68088527-2</u>	
Client Sample ID: <u>CV1360L-CS MSD</u>	Lab Sample ID: <u>680-88527-21 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CC28016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>03/19/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/25/2013 16:58</u>
Sample wt/vol: <u>15.19(g)</u>	Date Analyzed: <u>03/28/2013 15:59</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>40.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>135902</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	828		170	33
208-96-8	Acenaphthylene	888		66	8.3
120-12-7	Anthracene	930		14	6.9
56-55-3	Benzo[a]anthracene	1110		13	6.4
50-32-8	Benzo[a]pyrene	984		17	8.6
205-99-2	Benzo[b]fluoranthene	1120		20	10
191-24-2	Benzo[g,h,i]perylene	943		33	7.3
207-08-9	Benzo[k]fluoranthene	1060		13	6.0
218-01-9	Chrysene	935		15	7.4
53-70-3	Dibenz(a,h)anthracene	899		33	6.8
206-44-0	Fluoranthene	1180		33	6.6
86-73-7	Fluorene	911		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	965		33	12
90-12-0	1-Methylnaphthalene	995		66	7.3
91-57-6	2-Methylnaphthalene	928		66	12
91-20-3	Naphthalene	967		66	7.3
85-01-8	Phenanthrene	1030		13	6.4
129-00-0	Pyrene	1250		33	6.1

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



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28016.D  
 Lab Smp Id: 680-88527-a-21-c ms  
 Inj Date : 28-MAR-2013 15:59  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88527-a-21-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28016.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 16 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	15.190	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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
*****	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.721	3.722	(1.000)	774119	40.0000			
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	632579	40.0000			
* 10 Phenanthrene-d10	188	5.757	5.763	(1.000)	1127385	40.0000			
\$ 14 o-Terphenyl	230	6.010	6.010	(1.044)	127467	7.48855	492.9919		
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1291838	40.0000			
* 23 Perylene-d12	264	8.880	8.886	(1.000)	1252337	40.0000			
2 Naphthalene	128	3.733	3.733	(1.003)	176821	8.77382	577.6052		
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	113182	8.41934	554.2685		
4 1-Methylnaphthalene	142	4.221	4.222	(1.134)	110502	9.02540	594.1672		
5 Acenaphthylene	152	4.721	4.722	(0.982)	205365	8.05239	530.1114		
7 Acenaphthene	154	4.833	4.833	(1.005)	119080	7.51203	494.5376		
9 Fluorene	166	5.151	5.151	(1.071)	165603	8.26048	543.8102		
11 Phenanthrene	178	5.774	5.774	(1.003)	303459	9.30885	612.8272		
12 Anthracene	178	5.810	5.810	(1.009)	268885	8.43386	555.2243		

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.915	5.921	(1.028)	242517	8.55725	563.3476
15 Fluoranthene	202	6.610	6.616	(1.148)	382036	10.7013	704.4988
16 Pyrene	202	6.780	6.780	(0.880)	393877	11.3456	746.9121
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	376216	10.0903	664.2721
19 Chrysene	228	7.721	7.721	(1.002)	316604	8.48510	558.5976
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	334028	10.2061	671.8969
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	323663	9.64027	634.6455
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	283762	8.92619	587.6359
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	261902	8.75773	576.5460(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	238488	8.15301	536.7356
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	267694	8.55707	563.3356

#### QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28016.D

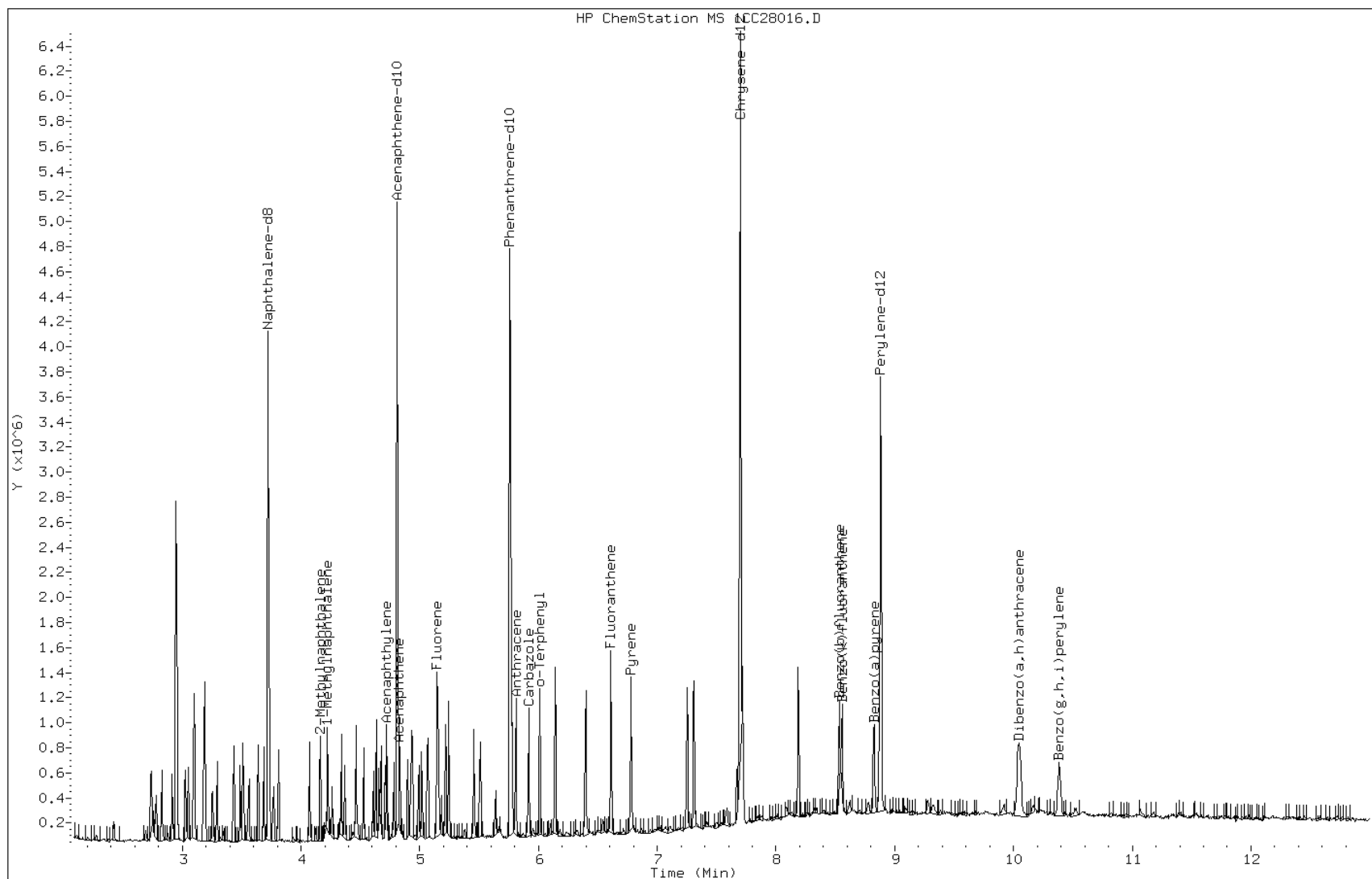
Date: 28-MAR-2013 15:59

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-c msd

Operator: SCC

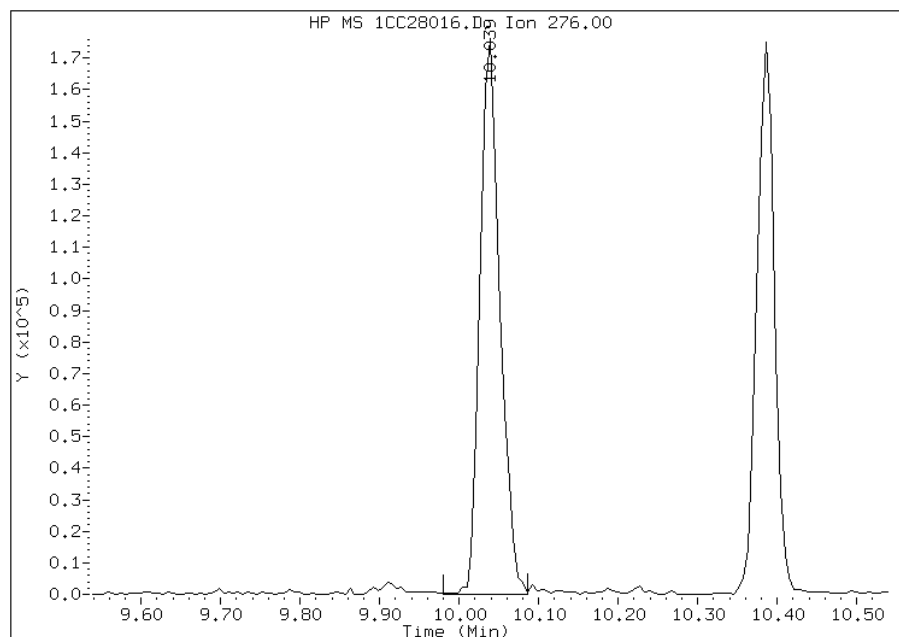


## Manual Integration Report

Data File: 1CC28016.D  
Inj. Date and Time: 28-MAR-2013 15:59  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

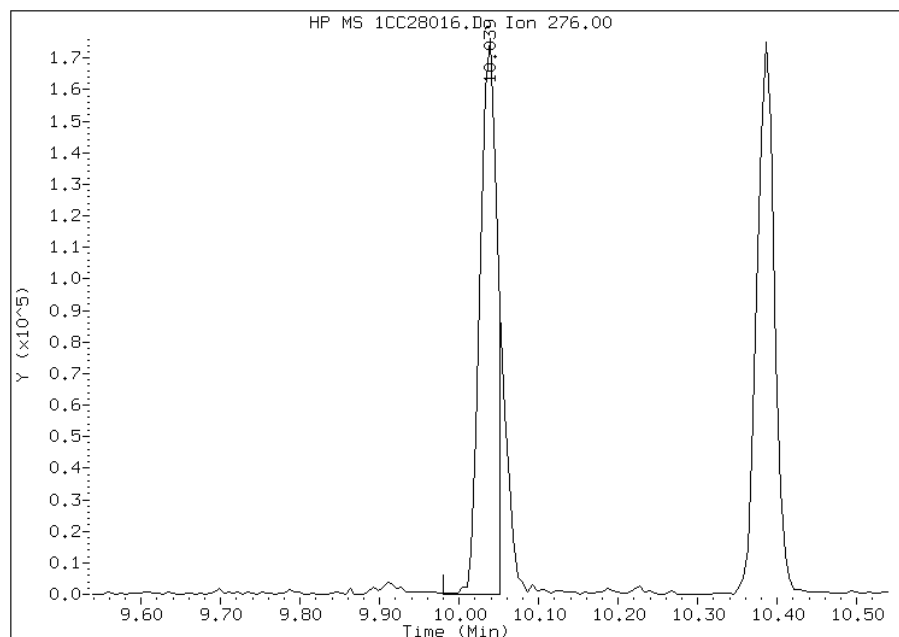
### Processing Integration Results

RT: 10.04  
Response: 304631  
Amount: 10  
Conc: 671



### Manual Integration Results

RT: 10.04  
Response: 261902  
Amount: 9  
Conc: 577



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 17:12  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973Start Date: 03/15/2013 12:08Analysis Batch Number: 135466End Date: 03/15/2013 21:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/15/2013 12:08	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 12:23	1		DB-5MS 250 (um)
DFTTP 660-135466/2		03/15/2013 12:38	1	1AC15002.D	DB-5MS 250 (um)
ICIS 660-135466/3		03/15/2013 12:54	1	1AC15003.D	DB-5MS 250 (um)
IC 660-135466/4		03/15/2013 13:09	1	1AC15004.D	DB-5MS 250 (um)
IC 660-135466/5		03/15/2013 13:24	1	1AC15005.D	DB-5MS 250 (um)
IC 660-135466/6		03/15/2013 13:39	1	1AC15006.D	DB-5MS 250 (um)
IC 660-135466/7		03/15/2013 13:54	1	1AC15007.D	DB-5MS 250 (um)
IC 660-135466/8		03/15/2013 14:10	1	1AC15008.D	DB-5MS 250 (um)
IC 660-135466/9		03/15/2013 14:25	1	1AC15009.D	DB-5MS 250 (um)
ICV 660-135466/10		03/15/2013 14:39	1	1AC15010.D	DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:17	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:32	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:47	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:02	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:17	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:33	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 16:48	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:03	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:18	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:19	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:34	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:05	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:20	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:35	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 19:50	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:05	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:21	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:36	4		DB-5MS 250 (um)
ZZZZZ		03/15/2013 20:51	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 21:06	4		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMA5973Start Date: 03/26/2013 10:45Analysis Batch Number: 135850End Date: 03/26/2013 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 10:45	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:00	1		DB-5MS 250 (um)
DFTTP 660-135850/2		03/26/2013 11:15	1	1AC26002.D	DB-5MS 250 (um)
CCVIS 660-135850/3		03/26/2013 11:28	1	1AC26003.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:44	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:59	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:15	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:30	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:08	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:23	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:15	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:30	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:45	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:38	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:08	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:23	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:38	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:09	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:39	1		DB-5MS 250 (um)
680-88527-25	CV1360P-CS	03/26/2013 19:54	4	1AC26029.D	DB-5MS 250 (um)
680-88527-26	CV1360Q-CS	03/26/2013 20:09	1	1AC26030.D	DB-5MS 250 (um)
680-88527-27	CV1360R-CS	03/26/2013 20:24	4	1AC26031.D	DB-5MS 250 (um)
680-88527-28	CV1360S-CS	03/26/2013 20:40	4	1AC26032.D	DB-5MS 250 (um)
680-88527-29	CV1360T-CS	03/26/2013 20:54	1	1AC26033.D	DB-5MS 250 (um)
680-88527-30	CV1360AB-GS	03/26/2013 21:10	1	1AC26034.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTTP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973Start Date: 03/27/2013 09:41Analysis Batch Number: 135830End Date: 03/27/2013 20:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/27/2013 09:41	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 09:59	1		DB-5MS 250 (um)
DFTTP 660-135830/2		03/27/2013 10:18	1	1CC27002.D	DB-5MS 250 (um)
CCVIS 660-135830/3		03/27/2013 10:35	1	1CC27003.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 10:53	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 11:26	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 11:44	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:02	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:20	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:57	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:15	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:52	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:11	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:29	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:47	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:05	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:24	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:42	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:00	4		DB-5MS 250 (um)
680-88527-24	CV13600-CS	03/27/2013 16:18	1	1CC27021.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:37	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:55	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:13	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:31	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:08	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:26	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:44	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:21	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:58	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:16	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:53	1		DB-5MS 250 (um)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMC5973Start Date: 03/28/2013 11:06Analysis Batch Number: 135902End Date: 03/28/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:06	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 11:24	1		DB-5MS 250 (um)
DFTTP 660-135902/2		03/28/2013 11:42	1	1CC28002.D	DB-5MS 250 (um)
CCVIS 660-135902/3		03/28/2013 11:59	1	1CC28003.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:20	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:38	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:56	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:14	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:51	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:10	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:28	1		DB-5MS 250 (um)
MB 660-135754/1-A		03/28/2013 14:46	1	1CC28012.D	DB-5MS 250 (um)
LCS 660-135754/2-A		03/28/2013 15:04	1	1CC28013.D	DB-5MS 250 (um)
680-88527-21	CV1360L-CS	03/28/2013 15:23	1	1CC28014.D	DB-5MS 250 (um)
680-88527-21 MS	CV1360L-CS MS	03/28/2013 15:41	1	1CC28015.D	DB-5MS 250 (um)
680-88527-21 MSD	CV1360L-CS MSD	03/28/2013 15:59	1	1CC28016.D	DB-5MS 250 (um)
680-88527-31	CV1360AC-GS	03/28/2013 16:18	1	1CC28017.D	DB-5MS 250 (um)
680-88527-32	CV1360AD-GS	03/28/2013 16:36	1	1CC28018.D	DB-5MS 250 (um)
680-88527-33	CV1360AE-GS	03/28/2013 16:54	1	1CC28019.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:12	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:31	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:08	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:26	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:44	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:21	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:16	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:52	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:11	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:29	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:47	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:06	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:24	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:42	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:00	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:37	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973Start Date: 02/22/2013 11:10Analysis Batch Number: 134781End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250 (um)
DFTTP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250 (um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250 (um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250 (um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250 (um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250 (um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250 (um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250 (um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250 (um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973Start Date: 03/26/2013 09:28Analysis Batch Number: 135792End Date: 03/26/2013 22:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 09:28	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 09:51	1		DB-5MS 250 (um)
DFTTP 660-135792/2		03/26/2013 10:15	1	1DC26002.D	DB-5MS 250 (um)
CCVIS 660-135792/3		03/26/2013 10:32	1	1DC26003.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 10:55	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:17	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:40	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:02	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:25	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 12:47	4		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:10	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:32	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:55	1		DB-5MS 250 (um)
LCS 660-135697/2-A		03/26/2013 15:31	1	1DC26013.D	DB-5MS 250 (um)
MB 660-135735/1-A		03/26/2013 15:54	1	1DC26014.D	DB-5MS 250 (um)
LCS 660-135735/2-A		03/26/2013 16:16	1	1DC26015.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 16:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:01	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 17:47	1		DB-5MS 250 (um)
680-88527-A-5-B MS		03/26/2013 18:09	1	1DC26020.D	DB-5MS 250 (um)
680-88527-A-5-C MSD		03/26/2013 18:31	1	1DC26021.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 18:54	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:16	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 19:39	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:01	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:24	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 20:47	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 21:09	4		DB-5MS 250 (um)
680-88527-22	CV1360M-CS	03/26/2013 21:32	1	1DC26029.D	DB-5MS 250 (um)
680-88527-23	CV1360N-CS	03/26/2013 21:54	4	1DC26030.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 22:17	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88527-2SDG No.: 68088527-2Instrument ID: BSMD5973Start Date: 03/25/2013 09:23Analysis Batch Number: 135796End Date: 03/25/2013 20:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/25/2013 09:23	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 09:47	1		DB-5MS 250 (um)
DFTTP 660-135796/2		03/25/2013 10:11	1	1DC25002.D	DB-5MS 250 (um)
CCVIS 660-135796/3		03/25/2013 10:32	1	1DC25003.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 10:55	1		DB-5MS 250 (um)
MB 660-135697/1-A		03/25/2013 11:17	1	1DC25005.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 11:40	1		DB-5MS 250 (um)
LCSD 660-135697/3-A		03/25/2013 12:02	1	1DC25007.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 12:25	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 12:47	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:10	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:55	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 14:18	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 14:41	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:03	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:26	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:48	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:10	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:33	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:56	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 17:41	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 18:04	1		DB-5MS 250 (um)
680-88527-34	032013-RB-Bowls + Spoons	03/25/2013 18:26	1	1DC25024.D	DB-5MS 250 (um)
680-88527-34 MS	032013-RB-Bowls + Spoons MS	03/25/2013 18:49	1	1DC25025.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:11	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:34	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:56	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 20:19	1		DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Batch Number: 135697 Batch Start Date: 03/22/13 15:26 Batch Analyst: Cerome, SaurelBatch Method: 3520C Batch End Date: 03/25/13 07:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135697/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-135697/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
LCSD 660-135697/3		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
680-88527-A-34	032013-RB-Bowls + Spoons	3520C, 8270C LL	T	1000 mL	1 mL	8	<2		1 mL
680-88527-B-34 MS	032013-RB-Bowls + Spoons	3520C, 8270C LL	T	1010 mL	1 mL	8	<2	1 mL	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	7.20/3/25/13
Concentration Start Time	6.00/3/25/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	20.30/3/22/13
Time the first extraction started 24 hr	16.30/3/22/13
pH Paper Lot Number	HC 256691
Prep Solvent Lot #	EX mc cycl _54/55
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#1/2/3/4
Water Bath Temperature	40 C Celsius

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.

8270C LL

Page 1 of 1

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Batch Number: 135735 Batch Start Date: 03/25/13 11:55 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135735/1		3546, 8270C LL		14.95 g	1 mL		1 mL		
LCS 660-135735/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-88527-A-5 MS		3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88527-A-5 MSD		3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88527-A-22	CV1360M-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-88527-A-23	CV1360N-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88527-A-24	CV1360O-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88527-A-25	CV1360P-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88527-A-26	CV1360Q-CS	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-88527-A-27	CV1360R-CS	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-88527-A-28	CV1360S-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88527-A-29	CV1360T-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-88527-A-30	CV1360AB-GS	3546, 8270C LL	T	15.06 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.: 680-88527-2SDG No.: 68088527-2Batch Number: 135735 Batch Start Date: 03/25/13 11:55 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 10:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN/SC
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 54
MeCl2/Acetone Lot #	DCM/ACETON 50
Microwave Start Time	12:00 3/25/13
Microwave Stop Time	12:35 3/25/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RN
Surrogate Lot Number	EXLLSURINT_178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Batch Number: 135754 Batch Start Date: 03/25/13 16:58 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135754/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-135754/2		3546, 8270C LL		15.31 g	1 mL	1 mL	1 mL		
680-88527-A-21	CV1360L-CS	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-88527-A-21 MS	CV1360L-CS	3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-88527-A-21 MSD	CV1360L-CS	3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88527-A-31	CV1360AC-GS	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-88527-A-32	CV1360AD-GS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88527-A-33	CV1360AE-GS	3546, 8270C LL	T	15.30 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.: 680-88527-2SDG No.: 68088527-2Batch Number: 135754 Batch Start Date: 03/25/13 16:58 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 14:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	EX-DCM/ACETON 51
Microwave Start Time	18:00 3/25/13
Microwave Stop Time	18:35 3/25/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RN
Surrogate Lot Number	EXLLSURINT_178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88527-2  
SDG No.: 68088527-2  
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1360L-CS	680-88527-21
CV1360M-CS	680-88527-22
CV1360N-CS	680-88527-23
CV1360O-CS	680-88527-24
CV1360P-CS	680-88527-25
CV1360Q-CS	680-88527-26
CV1360R-CS	680-88527-27
CV1360S-CS	680-88527-28
CV1360T-CS	680-88527-29
CV1360AB-GS	680-88527-30
CV1360AC-GS	680-88527-31
CV1360AD-GS	680-88527-32
CV1360AE-GS	680-88527-33

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88527-2  
SDG Number: 68088527-2  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88527-2  
SDG Number: 68088527-2  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2

SDG No.: 68088527-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/25/2013 06:21 End Date: 03/25/2013 06:21

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
MB 660-135709/1	1	T	06:21	X															
ZZZZZZ			06:21																
680-88527-A-5 MS	1	T	06:21	X															
680-88527-A-5 MSD	1	T	06:21	X															
680-88527-28	1	T	06:21	X															
ZZZZZZ			06:21																
ZZZZZZ			06:21																
ZZZZZZ			06:21																
ZZZZZZ			06:21																
ZZZZZZ			06:21																
ZZZZZZ			06:21																
ZZZZZZ			06:21																
680-88527-21	1	T	06:21	X															
680-88527-A-21 MS	1	T	06:21	X															
680-88527-A-21 MSD	1	T	06:21	X															
ZZZZZZ			06:21																
ZZZZZZ			06:21																
680-88527-22	1	T	06:21	X															
680-88527-33	1	T	06:21	X															
ZZZZZZ			06:21																
680-88527-26	1	T	06:21	X															
680-88527-23	1	T	06:21	X															
680-88527-30	1	T	06:21	X															
680-88527-31	1	T	06:21	X															
ZZZZZZ			06:21																
680-88527-24	1	T	06:21	X															
ZZZZZZ			06:21																
680-88527-25	1	T	06:21	X															
ZZZZZZ			06:21																
680-88527-27	1	T	06:21	X															
ZZZZZZ			06:21																
ZZZZZZ			06:21																
680-88527-29	1	T	06:21	X															
ZZZZZZ			06:21																
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680-88527-32	1	T	06:21	X															
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13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88527-2

SDG No.: 68088527-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/25/2013 06:21 End Date: 03/25/2013 06:21

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
ZZZZZZ			06:21																		
ZZZZZZ			06:21																		
ZZZZZZ			06:21																		
ZZZZZZ			06:21																		
ZZZZZZ			06:21																		
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ZZZZZZ			06:21																		
ZZZZZZ			06:21																		

Prep Types

T = Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88527-2SDG No.: 68088527-2Batch Number: 135709 Batch Start Date: 03/25/13 06:21 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135709/1		Moisture		mb	0 g	9.22 g	9.19 g		
680-88527-A-5 MS		Moisture	T	1	0 g	4.30 g	2.76 g		
680-88527-A-5 MSD		Moisture	T	1	0 g	4.30 g	2.76 g		
680-88527-A-28	CV1360S-CS	Moisture	T	2	0 g	4.91 g	4.00 g		
680-88527-A-21	CV1360L-CS	Moisture	T	10	0 g	4.37 g	2.61 g		
680-88527-A-21 MS		Moisture	T	10	0 g	4.37 g	2.61 g		
680-88527-A-21 MSD		Moisture	T	10	0 g	4.37 g	2.61 g		
680-88527-A-22	CV1360M-CS	Moisture	T	13	0 g	4.27 g	2.78 g		
680-88527-A-33	CV1360AE-GS	Moisture	T	14	0 g	4.77 g	2.61 g		
680-88527-A-26	CV1360Q-CS	Moisture	T	16	0 g	4.39 g	3.23 g		
680-88527-A-23	CV1360N-CS	Moisture	T	17	0 g	5.78 g	4.53 g		
680-88527-A-30	CV1360AB-GS	Moisture	T	18	0 g	4.24 g	3.65 g		
680-88527-A-31	CV1360AC-GS	Moisture	T	19	0 g	4.54 g	3.65 g		
680-88527-A-24	CV1360O-CS	Moisture	T	21	0 g	5.60 g	3.31 g		
680-88527-A-25	CV1360P-CS	Moisture	T	23	0 g	4.29 g	3.20 g		
680-88527-A-27	CV1360R-CS	Moisture	T	25	0 g	4.39 g	3.32 g		
680-88527-A-29	CV1360T-CS	Moisture	T	28	0 g	4.75 g	3.11 g		
680-88527-A-32	CV1360AD-GS	Moisture	T	33	0 g	4.12 g	.64 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.25.13

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

Page 1 of 1



# Shipping and Receiving Documents

Serial Number 63562

## 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 <u>35th Ave Removal</u>	PROJECT NO. <u>2005148-1356</u>	PROJECT LOCATION (STATE) <u>AL</u>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <u>2</u> OF <u>4</u>
TAL (LAB) PROJECT MANAGER <u>Lisa Harvey</u>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____

CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	LL PAH RCRA Metals	PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
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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																	
3-19-13	1225	<del>CV1360</del> E - CS	C	X			X											
	1250	CV1360 F - CS	C	X			X	X										
	1300	CV1360 G - CS	C	X			X	X										
	1315	CV1360 H - CS	C	X														
	1310	CV1360 I - CS	C	X														
	1330	CV1360 J - CS	C	X														
	1345	CV1360 K - CS	C	X														
	1348	CV1360 K - CSD	C	X														
	1350	CV1360 L - CS	C	X														
	1354	CV1360 M - CS	C	X														
	1400	CV1360 N - CS	C	X														
	1410	CV1360 D - CS	C	X														


RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>3-20-13</u>	TIME <u>1130</u>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <u>[Signature]</u>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>03/21/13</u>	TIME <u>0944</u>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <u>680</u> <u>88527</u>	LABORATORY REMARKS <u>3.8°</u>
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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](http://www.testamericainc.com)  
Phone: (912) 354-7858  
Fax: (912) 352-0165

☐ Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE 35 <sup>th</sup> Ave Removal		PROJECT NO. 2005148 - 1356		PROJECT LOCATION (STATE) AL		MATRIX TYPE		REQUIRED ANALYSIS										PAGE 3	OF 4
TAL (LAB) PROJECT MANAGER Lisa Harvey		P.O. NUMBER		CONTRACT NO.														STANDARD REPORT DELIVERY <input type="radio"/>	
CLIENT (SITE) BLM		CLIENT PHONE		CLIENT FAX														DATE DUE _____	
CLIENT ADDRESS																		EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	
COMPANY CONTRACTING THIS WORK (if applicable)																		DATE DUE _____	
																		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
SAMPLE																			
DATE TIME																		REMARKS	
3-19-13 1420		CV1360 P-CS		C X		X													
1440		CV1360 Q-CS		C X		X													
1445		CV1360 R-CS		C X		X													
1453		CV1360 S-CS		C X		X													
1523		CV1360 T-CS		C X		X													
1405		CV1360 AB-GS		G X		X													
1429		CV1360 AC-GS		G X		X													
1448		CV1360 AD-GS		G X		X													
1455		CV1360 AE-GS		G X		X													
3-20-13 1030		032013-RB-Bowls + Spoons		X X		X X													
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME			
[Signature]		3-20-13		1130															
RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME			
LABORATORY USE ONLY																			
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>		CUSTODY SEAL NO.		SAVANNAH LOG NO. 680 88527		LABORATORY REMARKS 3.8"							

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

SDG Number: 68088527-2

Login Number: 88527

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: 680-88527-2

SDG Number: 68088527-2

Login Number: 88527

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/22/13 10:17 AM

Creator: Edwards, Erricka

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?	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88527-2

TestAmerica Sample Delivery Group: 68088527-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/3/2013 11:23:09 AM

Bernard Kirkland

Project Manager I

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Designee for

Lisa Harvey

Project Manager II

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### LINKS

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[www.testamericainc.com](http://www.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.*

## Case Narrative

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Job ID: 680-88527-2**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88527-2**

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

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

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

#### RECEIPT

The samples were received on 03/21/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

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

Samples CV1360L-CS (680-88527-21), CV1360M-CS (680-88527-22), CV1360N-CS (680-88527-23), CV1360O-CS (680-88527-24), CV1360P-CS (680-88527-25), CV1360Q-CS (680-88527-26), CV1360R-CS (680-88527-27), CV1360S-CS (680-88527-28), CV1360T-CS (680-88527-29), CV1360AB-GS (680-88527-30), CV1360AC-GS (680-88527-31), CV1360AD-GS (680-88527-32) and CV1360AE-GS (680-88527-33) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and analyzed on 03/26/2013, 03/27/2013 and 03/28/2013.

Samples CV1360N-CS (680-88527-23)[4X], CV1360P-CS (680-88527-25)[4X], CV1360R-CS (680-88527-27)[4X] and CV1360S-CS (680-88527-28)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

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

Sample 032013-RB-Bowls + Spoons (680-88527-34) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/22/2013 and analyzed on 03/25/2013.

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: 680-88527-2  
SDG: 68088527-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88527-21	CV1360L-CS	Solid	03/19/13 13:50	03/21/13 09:44
680-88527-22	CV1360M-CS	Solid	03/19/13 13:54	03/21/13 09:44
680-88527-23	CV1360N-CS	Solid	03/19/13 14:00	03/21/13 09:44
680-88527-24	CV1360O-CS	Solid	03/19/13 14:10	03/21/13 09:44
680-88527-25	CV1360P-CS	Solid	03/19/13 14:20	03/21/13 09:44
680-88527-26	CV1360Q-CS	Solid	03/19/13 14:40	03/21/13 09:44
680-88527-27	CV1360R-CS	Solid	03/19/13 14:45	03/21/13 09:44
680-88527-28	CV1360S-CS	Solid	03/19/13 14:53	03/21/13 09:44
680-88527-29	CV1360T-CS	Solid	03/19/13 15:23	03/21/13 09:44
680-88527-30	CV1360AB-GS	Solid	03/19/13 14:05	03/21/13 09:44
680-88527-31	CV1360AC-GS	Solid	03/19/13 14:29	03/21/13 09:44
680-88527-32	CV1360AD-GS	Solid	03/19/13 14:48	03/21/13 09:44
680-88527-33	CV1360AE-GS	Solid	03/19/13 14:55	03/21/13 09:44
680-88527-34	032013-RB-Bowls + Spoons	Water	03/20/13 10:30	03/21/13 09:44



## Method Summary

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

### Protocol References:

EPA = US Environmental Protection Agency

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

### Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

## Definitions/Glossary

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360L-CS**

**Lab Sample ID: 680-88527-21**

Date Collected: 03/19/13 13:50

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 59.7

## 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	☼	03/25/13 16:58	03/28/13 15:23	1
Acenaphthylene	18	J	66	8.2	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Anthracene	29		14	6.9	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Benzo[a]anthracene	130		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Benzo[a]pyrene	130		17	8.6	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Benzo[b]fluoranthene	230		20	10	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Benzo[g,h,i]perylene	100		33	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Benzo[k]fluoranthene	72		13	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Chrysene	170		15	7.4	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Dibenz(a,h)anthracene	28	J	33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Fluoranthene	270		33	6.6	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Fluorene	15	J	33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Indeno[1,2,3-cd]pyrene	95		33	12	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
1-Methylnaphthalene	39	J	66	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
2-Methylnaphthalene	59	J	66	12	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Naphthalene	91		66	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Phenanthrene	140		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
Pyrene	250		33	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 15:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	62		30 - 130				03/25/13 16:58	03/28/13 15:23	1

**Client Sample ID: CV1360M-CS**

**Lab Sample ID: 680-88527-22**

Date Collected: 03/19/13 13:54

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Acenaphthylene	7.6	J	61	7.6	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Anthracene	13		13	6.4	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Benzo[a]anthracene	57		12	6.0	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Benzo[a]pyrene	51		16	7.9	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Benzo[b]fluoranthene	79		19	9.3	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Benzo[g,h,i]perylene	39		31	6.7	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Benzo[k]fluoranthene	31		12	5.5	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Chrysene	55		14	6.9	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Dibenz(a,h)anthracene	11	J	31	6.3	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Fluoranthene	87		31	6.1	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Fluorene	31	U	31	6.3	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Indeno[1,2,3-cd]pyrene	37		31	11	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
1-Methylnaphthalene	17	J	61	6.7	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
2-Methylnaphthalene	25	J	61	11	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Naphthalene	46	J	61	6.7	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Phenanthrene	49		12	6.0	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
Pyrene	74		31	5.6	ug/Kg	☼	03/25/13 11:55	03/26/13 21:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	81		30 - 130				03/25/13 11:55	03/26/13 21:32	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360N-CS**

**Lab Sample ID: 680-88527-23**

Date Collected: 03/19/13 14:00

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Acenaphthylene	47	J	200	25	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Anthracene	95		43	21	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Benzo[a]anthracene	450		41	20	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Benzo[a]pyrene	430		53	26	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Benzo[b]fluoranthene	780		62	31	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Benzo[g,h,i]perylene	320		100	22	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Benzo[k]fluoranthene	240		41	18	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Chrysene	510		46	23	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Dibenz(a,h)anthracene	100		100	21	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Fluoranthene	760		100	20	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Fluorene	27	J	100	21	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Indeno[1,2,3-cd]pyrene	300		100	36	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
1-Methylnaphthalene	94	J	200	22	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
2-Methylnaphthalene	130	J	200	36	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Naphthalene	140	J	200	22	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Phenanthrene	400		41	20	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	4
Pyrene	640		100	19	ug/Kg	☼	03/25/13 11:55	03/26/13 21:54	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	89		30 - 130				03/25/13 11:55	03/26/13 21:54	4

**Client Sample ID: CV1360O-CS**

**Lab Sample ID: 680-88527-24**

Date Collected: 03/19/13 14:10

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 59.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Acenaphthylene	68	U	68	8.4	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Anthracene	11	J	14	7.1	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Benzo[a]anthracene	63		14	6.6	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Benzo[a]pyrene	56		18	8.8	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Benzo[b]fluoranthene	86		21	10	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Benzo[g,h,i]perylene	43		34	7.4	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Benzo[k]fluoranthene	49		14	6.1	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Chrysene	54		15	7.6	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Dibenz(a,h)anthracene	15	J	34	6.9	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Fluoranthene	94		34	6.8	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Fluorene	34	U	34	6.9	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Indeno[1,2,3-cd]pyrene	27	J	34	12	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
1-Methylnaphthalene	16	J	68	7.4	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
2-Methylnaphthalene	16	J	68	12	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Naphthalene	38	J	68	7.4	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Phenanthrene	52		14	6.6	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	1
Pyrene	85		34	6.3	ug/Kg	☼	03/25/13 11:55	03/27/13 16:18	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	77		30 - 130				03/25/13 11:55	03/27/13 16:18	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360P-CS**

**Lab Sample ID: 680-88527-25**

Date Collected: 03/19/13 14:20

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Anthracene	83		45	22	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Benzo[a]anthracene	370		43	21	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Benzo[a]pyrene	240		56	28	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Benzo[b]fluoranthene	770		65	33	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Benzo[g,h,i]perylene	190		110	24	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Benzo[k]fluoranthene	110		43	19	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Chrysene	340		48	24	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Dibenz(a,h)anthracene	83	J	110	22	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Fluoranthene	460		110	21	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Fluorene	110	U	110	22	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Indeno[1,2,3-cd]pyrene	160		110	38	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
1-Methylnaphthalene	40	J	210	24	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
2-Methylnaphthalene	390		210	38	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Naphthalene	110	J	210	24	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Phenanthrene	200		43	21	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	4
Pyrene	410		110	20	ug/Kg	☼	03/25/13 11:55	03/26/13 19:54	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	119		30 - 130				03/25/13 11:55	03/26/13 19:54	4

**Client Sample ID: CV1360Q-CS**

**Lab Sample ID: 680-88527-26**

Date Collected: 03/19/13 14:40

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Anthracene	38		11	5.5	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Benzo[a]anthracene	140		11	5.1	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Benzo[a]pyrene	100		14	6.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Benzo[b]fluoranthene	250		16	8.0	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Benzo[g,h,i]perylene	65		26	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Benzo[k]fluoranthene	69		11	4.7	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Chrysene	140		12	5.9	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Dibenz(a,h)anthracene	20	J	26	5.4	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Fluoranthene	220		26	5.3	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Fluorene	26	U	26	5.4	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Indeno[1,2,3-cd]pyrene	70		26	9.4	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
1-Methylnaphthalene	15	J	53	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
2-Methylnaphthalene	100		53	9.4	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Naphthalene	34	J	53	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Phenanthrene	95		11	5.1	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
Pyrene	200		26	4.9	ug/Kg	☼	03/25/13 11:55	03/26/13 20:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	74		30 - 130				03/25/13 11:55	03/26/13 20:09	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360R-CS**

**Lab Sample ID: 680-88527-27**

**Date Collected: 03/19/13 14:45**

**Matrix: Solid**

**Date Received: 03/21/13 09:44**

**Percent Solids: 75.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Acenaphthylene	110	J	210	26	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Anthracene	83		43	22	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Benzo[a]anthracene	410		41	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Benzo[a]pyrene	220		54	27	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Benzo[b]fluoranthene	750		63	32	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Benzo[g,h,i]perylene	140		100	23	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Chrysene	290		47	23	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Dibenz(a,h)anthracene	48	J	100	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Fluoranthene	330		100	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Fluorene	100	U	100	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Indeno[1,2,3-cd]pyrene	94	J	100	37	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
1-Methylnaphthalene	210	U	210	23	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
2-Methylnaphthalene	210	U	210	37	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Naphthalene	58	J	210	23	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Phenanthrene	110		41	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	4
Pyrene	340		100	19	ug/Kg	☼	03/25/13 11:55	03/26/13 20:24	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	58		30 - 130				03/25/13 11:55	03/26/13 20:24	4

**Client Sample ID: CV1360S-CS**

**Lab Sample ID: 680-88527-28**

**Date Collected: 03/19/13 14:53**

**Matrix: Solid**

**Date Received: 03/21/13 09:44**

**Percent Solids: 81.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Anthracene	28	J	41	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Benzo[a]anthracene	240		39	19	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Benzo[a]pyrene	110		51	25	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Benzo[b]fluoranthene	540		60	30	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Benzo[g,h,i]perylene	63	J	98	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Benzo[k]fluoranthene	67		39	18	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Chrysene	180		44	22	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Fluoranthene	220		98	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Fluorene	98	U	98	20	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Indeno[1,2,3-cd]pyrene	94	J	98	35	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
1-Methylnaphthalene	200	U	200	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
2-Methylnaphthalene	200	U	200	35	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Naphthalene	46	J	200	21	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Phenanthrene	99		39	19	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	4
Pyrene	160		98	18	ug/Kg	☼	03/25/13 11:55	03/26/13 20:40	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	89		30 - 130				03/25/13 11:55	03/26/13 20:40	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360T-CS**

**Lab Sample ID: 680-88527-29**

Date Collected: 03/19/13 15:23

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Acenaphthylene	60	U	60	7.5	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Anthracene	8.7	J	13	6.3	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Benzo[a]anthracene	54		12	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Benzo[a]pyrene	23		16	7.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Benzo[b]fluoranthene	160		18	9.1	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Benzo[g,h,i]perylene	24	J	30	6.6	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Benzo[k]fluoranthene	15		12	5.4	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Chrysene	61		13	6.7	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Dibenz(a,h)anthracene	11	J	30	6.1	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Fluoranthene	69		30	6.0	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Fluorene	30	U	30	6.1	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Indeno[1,2,3-cd]pyrene	23	J	30	11	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
1-Methylnaphthalene	14	J	60	6.6	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
2-Methylnaphthalene	100		60	11	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Naphthalene	33	J	60	6.6	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Phenanthrene	44		12	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
Pyrene	51		30	5.5	ug/Kg	☼	03/25/13 11:55	03/26/13 20:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	76		30 - 130				03/25/13 11:55	03/26/13 20:54	1

**Client Sample ID: CV1360AB-GS**

**Lab Sample ID: 680-88527-30**

Date Collected: 03/19/13 14:05

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 86.1

## 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	23	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Acenaphthylene	28	J	46	5.8	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Anthracene	28		9.7	4.9	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Benzo[a]anthracene	110		9.3	4.5	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Benzo[a]pyrene	80		12	6.0	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Benzo[b]fluoranthene	220		14	7.1	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Benzo[g,h,i]perylene	56		23	5.1	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Benzo[k]fluoranthene	53		9.3	4.2	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Chrysene	160		10	5.2	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Dibenz(a,h)anthracene	24		23	4.7	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Fluoranthene	160		23	4.6	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Fluorene	23	U	23	4.7	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Indeno[1,2,3-cd]pyrene	41		23	8.2	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
1-Methylnaphthalene	30	J	46	5.1	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
2-Methylnaphthalene	100		46	8.2	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Naphthalene	41	J	46	5.1	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Phenanthrene	110		9.3	4.5	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
Pyrene	170		23	4.3	ug/Kg	☼	03/25/13 11:55	03/26/13 21:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	76		30 - 130				03/25/13 11:55	03/26/13 21:10	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360AC-GS**

**Lab Sample ID: 680-88527-31**

Date Collected: 03/19/13 14:29

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 80.4

## 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	☼	03/25/13 16:58	03/28/13 16:18	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Anthracene	18		10	5.1	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Benzo[a]anthracene	81		9.8	4.8	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Benzo[a]pyrene	79		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Benzo[b]fluoranthene	140		15	7.5	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Benzo[g,h,i]perylene	69		25	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Benzo[k]fluoranthene	43		9.8	4.4	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Chrysene	110		11	5.5	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Dibenz(a,h)anthracene	19 J		25	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Fluoranthene	140		25	4.9	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Fluorene	8.5 J		25	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Indeno[1,2,3-cd]pyrene	57		25	8.7	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
1-Methylnaphthalene	32 J		49	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
2-Methylnaphthalene	38 J		49	8.7	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Naphthalene	33 J		49	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Phenanthrene	91		9.8	4.8	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	1
Pyrene	120		25	4.5	ug/Kg	☼	03/25/13 16:58	03/28/13 16:18	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	73		30 - 130				03/25/13 16:58	03/28/13 16:18	1

**Client Sample ID: CV1360AD-GS**

**Lab Sample ID: 680-88527-32**

Date Collected: 03/19/13 14:48

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 15.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	650	U	650	130	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Acenaphthylene	260	U	260	32	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Anthracene	54	U	54	27	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Benzo[a]anthracene	120		52	25	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Benzo[a]pyrene	39 J		67	34	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Benzo[b]fluoranthene	72 J		79	39	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Benzo[g,h,i]perylene	130	U	130	28	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Benzo[k]fluoranthene	57		52	23	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Chrysene	66		58	29	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Fluoranthene	120 J		130	26	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Fluorene	32 J		130	27	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Indeno[1,2,3-cd]pyrene	130	U	130	46	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
1-Methylnaphthalene	52 J		260	28	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
2-Methylnaphthalene	58 J		260	46	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Naphthalene	97 J		260	28	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Phenanthrene	190		52	25	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	1
Pyrene	120 J		130	24	ug/Kg	☼	03/25/13 16:58	03/28/13 16:36	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				03/25/13 16:58	03/28/13 16:36	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

Client Sample ID: CV1360AE-GS

Lab Sample ID: 680-88527-33

Date Collected: 03/19/13 14:55

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 54.7

## 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	36	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Acenaphthylene	12	J	72	9.0	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Anthracene	17		15	7.5	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Benzo[a]anthracene	110		14	7.0	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Benzo[a]pyrene	100		19	9.3	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Benzo[b]fluoranthene	200		22	11	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Benzo[g,h,i]perylene	75		36	7.9	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Benzo[k]fluoranthene	61		14	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Chrysene	120		16	8.1	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Dibenz(a,h)anthracene	30	J	36	7.3	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Fluoranthene	180		36	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Fluorene	8.8	J	36	7.3	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Indeno[1,2,3-cd]pyrene	58		36	13	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
1-Methylnaphthalene	17	J	72	7.9	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
2-Methylnaphthalene	34	J	72	13	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Naphthalene	47	J	72	7.9	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Phenanthrene	100		14	7.0	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1
Pyrene	170		36	6.6	ug/Kg	☼	03/25/13 16:58	03/28/13 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130	03/25/13 16:58	03/28/13 16:54	1

Client Sample ID: 032013-RB-Bowls + Spoons

Lab Sample ID: 680-88527-34

Date Collected: 03/20/13 10:30

Matrix: Water

Date Received: 03/21/13 09:44

## 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	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		03/22/13 15:26	03/25/13 18:26	1
Anthracene	0.20	U	0.20	0.076	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		03/22/13 15:26	03/25/13 18:26	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 18:26	1
Chrysene	0.20	U	0.20	0.069	ug/L		03/22/13 15:26	03/25/13 18:26	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		03/22/13 15:26	03/25/13 18:26	1
Fluorene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 18:26	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 18:26	1
Naphthalene	2.0	U	2.0	0.25	ug/L		03/22/13 15:26	03/25/13 18:26	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		03/22/13 15:26	03/25/13 18:26	1
Pyrene	0.50	U	0.50	0.089	ug/L		03/22/13 15:26	03/25/13 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130	03/22/13 15:26	03/25/13 18:26	1

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: MB 660-135697/1-A

Matrix: Water

Analysis Batch: 135796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 11:17	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		03/22/13 15:26	03/25/13 11:17	1
Anthracene	0.20	U	0.20	0.076	ug/L		03/22/13 15:26	03/25/13 11:17	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 11:17	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 11:17	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 11:17	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		03/22/13 15:26	03/25/13 11:17	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		03/22/13 15:26	03/25/13 11:17	1
Chrysene	0.20	U	0.20	0.069	ug/L		03/22/13 15:26	03/25/13 11:17	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 11:17	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		03/22/13 15:26	03/25/13 11:17	1
Fluorene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 11:17	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		03/22/13 15:26	03/25/13 11:17	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 11:17	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		03/22/13 15:26	03/25/13 11:17	1
Naphthalene	2.0	U	2.0	0.25	ug/L		03/22/13 15:26	03/25/13 11:17	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		03/22/13 15:26	03/25/13 11:17	1
Pyrene	0.50	U	0.50	0.089	ug/L		03/22/13 15:26	03/25/13 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130	03/22/13 15:26	03/25/13 11:17	1

Lab Sample ID: LCS 660-135697/2-A

Matrix: Water

Analysis Batch: 135792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	10.0	6.45		ug/L		65	55 - 132
Acenaphthylene	10.0	6.67		ug/L		67	39 - 130
Anthracene	10.0	6.25		ug/L		63	39 - 130
Benzo[a]anthracene	10.0	6.89		ug/L		69	54 - 135
Benzo[a]pyrene	10.0	4.89		ug/L		49	21 - 130
Benzo[b]fluoranthene	10.0	5.93		ug/L		59	37 - 130
Benzo[g,h,i]perylene	10.0	3.96		ug/L		40	26 - 130
Benzo[k]fluoranthene	10.0	5.31		ug/L		53	38 - 130
Chrysene	10.0	6.39		ug/L		64	56 - 130
Dibenz(a,h)anthracene	10.0	3.82		ug/L		38	13 - 130
Fluoranthene	10.0	6.93		ug/L		69	60 - 130
Fluorene	10.0	6.79		ug/L		68	55 - 140
Indeno[1,2,3-cd]pyrene	10.0	3.64		ug/L		36	21 - 130
1-Methylnaphthalene	10.0	7.00		ug/L		70	49 - 130
2-Methylnaphthalene	10.0	6.56		ug/L		66	48 - 130
Naphthalene	10.0	6.42		ug/L		64	54 - 133
Phenanthrene	10.0	6.58		ug/L		66	60 - 136
Pyrene	10.0	6.71		ug/L		67	60 - 138

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: LCS 660-135697/2-A

Matrix: Water

Analysis Batch: 135792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135697

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	65		30 - 130

Lab Sample ID: LCSD 660-135697/3-A

Matrix: Water

Analysis Batch: 135796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 135697

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	10.0	6.75		ug/L		68	55 - 132	5	35
Acenaphthylene	10.0	7.02		ug/L		70	39 - 130	5	35
Anthracene	10.0	6.83		ug/L		68	39 - 130	9	35
Benzo[a]anthracene	10.0	7.09		ug/L		71	54 - 135	3	35
Benzo[a]pyrene	10.0	4.98		ug/L		50	21 - 130	2	35
Benzo[b]fluoranthene	10.0	5.58		ug/L		56	37 - 130	6	35
Benzo[g,h,i]perylene	10.0	4.24		ug/L		42	26 - 130	7	35
Benzo[k]fluoranthene	10.0	5.37		ug/L		54	38 - 130	1	35
Chrysene	10.0	6.38		ug/L		64	56 - 130	0	35
Dibenz(a,h)anthracene	10.0	4.06		ug/L		41	13 - 130	6	35
Fluoranthene	10.0	7.23		ug/L		72	60 - 130	4	35
Fluorene	10.0	7.38		ug/L		74	55 - 140	8	35
Indeno[1,2,3-cd]pyrene	10.0	3.94		ug/L		39	21 - 130	8	35
1-Methylnaphthalene	10.0	7.23		ug/L		72	49 - 130	3	35
2-Methylnaphthalene	10.0	6.96		ug/L		70	48 - 130	6	35
Naphthalene	10.0	6.83		ug/L		68	54 - 133	6	35
Phenanthrene	10.0	7.00		ug/L		70	60 - 136	6	35
Pyrene	10.0	6.94		ug/L		69	60 - 138	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	67		30 - 130

Lab Sample ID: 680-88527-34 MS

Matrix: Water

Analysis Batch: 135796

Client Sample ID: 032013-RB-Bowls + Spoons

Prep Type: Total/NA

Prep Batch: 135697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.0	U	9.90	5.95		ug/L		60	55 - 132
Acenaphthylene	1.0	U	9.90	6.16		ug/L		62	39 - 130
Anthracene	0.20	U	9.90	6.02		ug/L		61	39 - 130
Benzo[a]anthracene	0.20	U	9.90	6.31		ug/L		64	54 - 135
Benzo[a]pyrene	0.20	U	9.90	4.73		ug/L		48	21 - 130
Benzo[b]fluoranthene	0.20	U	9.90	5.27		ug/L		53	37 - 130
Benzo[g,h,i]perylene	0.50	U	9.90	3.58		ug/L		36	26 - 130
Benzo[k]fluoranthene	0.20	U	9.90	4.88		ug/L		49	38 - 130
Chrysene	0.20	U	9.90	5.79		ug/L		58	56 - 130
Dibenz(a,h)anthracene	0.20	U	9.90	3.66		ug/L		37	13 - 130
Fluoranthene	0.50	U	9.90	6.30		ug/L		64	60 - 130
Fluorene	2.0	U	9.90	6.21		ug/L		63	55 - 140
Indeno[1,2,3-cd]pyrene	0.20	U	9.90	3.46		ug/L		35	21 - 130
1-Methylnaphthalene	2.0	U	9.90	6.55		ug/L		66	49 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: 680-88527-34 MS

Matrix: Water

Analysis Batch: 135796

Client Sample ID: 032013-RB-Bowls + Spoons

Prep Type: Total/NA

Prep Batch: 135697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2.0	U	9.90	6.27		ug/L		63	48 - 130
Naphthalene	2.0	U	9.90	6.00		ug/L		61	54 - 133
Phenanthrene	0.50	U	9.90	6.08		ug/L		61	60 - 136
Pyrene	0.50	U	9.90	6.19		ug/L		63	60 - 138
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS</b>	<b>Limits</b>					
<i>o</i> -Terphenyl	59			30 - 130					

Lab Sample ID: MB 660-135735/1-A

Matrix: Solid

Analysis Batch: 135792

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Fluorene	20	U	20	4.1	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Naphthalene	40	U	40	4.4	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
Pyrene	20	U	20	3.7	ug/Kg		03/25/13 11:55	03/26/13 15:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	67			30 - 130			03/25/13 11:55	03/26/13 15:54	1

Lab Sample ID: LCS 660-135735/2-A

Matrix: Solid

Analysis Batch: 135792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	467		ug/Kg		70	39 - 130
Acenaphthylene	664	478		ug/Kg		72	38 - 130
Anthracene	664	484		ug/Kg		73	37 - 130
Benzo[a]anthracene	664	540		ug/Kg		81	40 - 130
Benzo[a]pyrene	664	470		ug/Kg		71	49 - 130
Benzo[b]fluoranthene	664	502		ug/Kg		76	37 - 130
Benzo[g,h,i]perylene	664	456		ug/Kg		69	32 - 130
Benzo[k]fluoranthene	664	511		ug/Kg		77	32 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: LCS 660-135735/2-A

Matrix: Solid

Analysis Batch: 135792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	664	486		ug/Kg		73	41 - 130
Dibenz(a,h)an hracene	664	492		ug/Kg		74	27 - 130
Fluoranthene	664	496		ug/Kg		75	40 - 130
Fluorene	664	495		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	664	465		ug/Kg		70	30 - 130
1-Methylnaphthalene	664	518		ug/Kg		78	31 - 130
2-Methylnaphthalene	664	495		ug/Kg		74	33 - 130
Naphthalene	664	471		ug/Kg		71	36 - 130
Phenanthrene	664	484		ug/Kg		73	42 - 130
Pyrene	664	491		ug/Kg		74	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	74		30 - 130

Lab Sample ID: MB 660-135754/1-A

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Dibenz(a,h)an hracene	20	U	20	4.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Fluorene	20	U	20	4.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Naphthalene	40	U	40	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Pyrene	20	U	20	3.7	ug/Kg		03/25/13 16:58	03/28/13 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130	03/25/13 16:58	03/28/13 14:46	1

Lab Sample ID: LCS 660-135754/2-A

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	653	560		ug/Kg		86	39 - 130
Acenaphthylene	653	589		ug/Kg		90	38 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: LCS 660-135754/2-A

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	653	581		ug/Kg		89	37 - 130
Benzo[a]anthracene	653	617		ug/Kg		95	40 - 130
Benzo[a]pyrene	653	595		ug/Kg		91	49 - 130
Benzo[b]fluoranthene	653	631		ug/Kg		97	37 - 130
Benzo[g,h,i]perylene	653	585		ug/Kg		90	32 - 130
Benzo[k]fluoranthene	653	644		ug/Kg		99	32 - 130
Chrysene	653	597		ug/Kg		91	41 - 130
Dibenz(a,h)anthracene	653	604		ug/Kg		92	27 - 130
Fluoranthene	653	612		ug/Kg		94	40 - 130
Fluorene	653	593		ug/Kg		91	40 - 130
Indeno[1,2,3-cd]pyrene	653	608		ug/Kg		93	30 - 130
1-Methylnaphthalene	653	619		ug/Kg		95	31 - 130
2-Methylnaphthalene	653	636		ug/Kg		97	33 - 130
Naphthalene	653	612		ug/Kg		94	36 - 130
Phenanthrene	653	547		ug/Kg		84	42 - 130
Pyrene	653	647		ug/Kg		99	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	90		30 - 130

Lab Sample ID: 680-88527-21 MS

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: CV1360L-CS

Prep Type: Total/NA

Prep Batch: 135754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	160	U	1100	838		ug/Kg	✱	76	39 - 130
Acenaphthylene	18	J	1100	903		ug/Kg	✱	80	38 - 130
Anthracene	29		1100	920		ug/Kg	✱	81	37 - 130
Benzo[a]anthracene	130		1100	904		ug/Kg	✱	70	40 - 130
Benzo[a]pyrene	130		1100	933		ug/Kg	✱	73	49 - 130
Benzo[b]fluoranthene	230		1100	977		ug/Kg	✱	68	37 - 130
Benzo[g,h,i]perylene	100		1100	847		ug/Kg	✱	68	32 - 130
Benzo[k]fluoranthene	72		1100	959		ug/Kg	✱	81	32 - 130
Chrysene	170		1100	933		ug/Kg	✱	70	41 - 130
Dibenz(a,h)anthracene	28	J	1100	876		ug/Kg	✱	77	27 - 130
Fluoranthene	270		1100	1040		ug/Kg	✱	70	40 - 130
Fluorene	15	J	1100	898		ug/Kg	✱	80	40 - 130
Indeno[1,2,3-cd]pyrene	95		1100	806		ug/Kg	✱	65	30 - 130
1-Methylnaphthalene	39	J	1100	981		ug/Kg	✱	86	31 - 130
2-Methylnaphthalene	59	J	1100	912		ug/Kg	✱	77	33 - 130
Naphthalene	91		1100	949		ug/Kg	✱	78	36 - 130
Phenanthrene	140		1100	938		ug/Kg	✱	72	42 - 130
Pyrene	250		1100	1060		ug/Kg	✱	73	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl	71		30 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

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

Lab Sample ID: 680-88527-21 MSD

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: CV1360L-CS

Prep Type: Total/NA

Prep Batch: 135754

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	160	U	1100	828		ug/Kg	⊛	75	39 - 130	1	40
Acenaphthylene	18	J	1100	888		ug/Kg	⊛	79	38 - 130	2	40
Anthracene	29		1100	930		ug/Kg	⊛	82	37 - 130	1	40
Benzo[a]anthracene	130		1100	1110		ug/Kg	⊛	89	40 - 130	21	40
Benzo[a]pyrene	130		1100	984		ug/Kg	⊛	78	49 - 130	5	40
Benzo[b]fluoranthene	230		1100	1120		ug/Kg	⊛	82	37 - 130	14	40
Benzo[g,h,i]perylene	100		1100	943		ug/Kg	⊛	76	32 - 130	11	40
Benzo[k]fluoranthene	72		1100	1060		ug/Kg	⊛	90	32 - 130	10	40
Chrysene	170		1100	935		ug/Kg	⊛	70	41 - 130	0	40
Dibenz(a,h)anthracene	28	J	1100	899		ug/Kg	⊛	79	27 - 130	3	40
Fluoranthene	270		1100	1180		ug/Kg	⊛	83	40 - 130	13	40
Fluorene	15	J	1100	911		ug/Kg	⊛	81	40 - 130	1	40
Indeno[1,2,3-cd]pyrene	95		1100	965		ug/Kg	⊛	79	30 - 130	18	40
1-Methylnaphthalene	39	J	1100	995		ug/Kg	⊛	87	31 - 130	1	40
2-Methylnaphthalene	59	J	1100	928		ug/Kg	⊛	79	33 - 130	2	40
Naphthalene	91		1100	967		ug/Kg	⊛	80	36 - 130	2	40
Phenanthrene	140		1100	1030		ug/Kg	⊛	80	42 - 130	9	40
Pyrene	250		1100	1250		ug/Kg	⊛	91	44 - 130	17	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	75		30 - 130

## QC Association Summary

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

### GC/MS Semi VOA

#### Prep Batch: 135697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-34	032013-RB-Bowls + Spoons	Total/NA	Water	3520C	
680-88527-34 MS	032013-RB-Bowls + Spoons	Total/NA	Water	3520C	
LCS 660-135697/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 660-135697/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 660-135697/1-A	Method Blank	Total/NA	Water	3520C	

#### Prep Batch: 135735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-22	CV1360M-CS	Total/NA	Solid	3546	
680-88527-23	CV1360N-CS	Total/NA	Solid	3546	
680-88527-24	CV1360O-CS	Total/NA	Solid	3546	
680-88527-25	CV1360P-CS	Total/NA	Solid	3546	
680-88527-26	CV1360Q-CS	Total/NA	Solid	3546	
680-88527-27	CV1360R-CS	Total/NA	Solid	3546	
680-88527-28	CV1360S-CS	Total/NA	Solid	3546	
680-88527-29	CV1360T-CS	Total/NA	Solid	3546	
680-88527-30	CV1360AB-GS	Total/NA	Solid	3546	
LCS 660-135735/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135735/1-A	Method Blank	Total/NA	Solid	3546	

#### Prep Batch: 135754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-21	CV1360L-CS	Total/NA	Solid	3546	
680-88527-21 MS	CV1360L-CS	Total/NA	Solid	3546	
680-88527-21 MSD	CV1360L-CS	Total/NA	Solid	3546	
680-88527-31	CV1360AC-GS	Total/NA	Solid	3546	
680-88527-32	CV1360AD-GS	Total/NA	Solid	3546	
680-88527-33	CV1360AE-GS	Total/NA	Solid	3546	
LCS 660-135754/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135754/1-A	Method Blank	Total/NA	Solid	3546	

#### Analysis Batch: 135792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-22	CV1360M-CS	Total/NA	Solid	8270C LL	135735
680-88527-23	CV1360N-CS	Total/NA	Solid	8270C LL	135735
LCS 660-135697/2-A	Lab Control Sample	Total/NA	Water	8270C LL	135697
LCS 660-135735/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135735
MB 660-135735/1-A	Method Blank	Total/NA	Solid	8270C LL	135735

#### Analysis Batch: 135796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-34	032013-RB-Bowls + Spoons	Total/NA	Water	8270C LL	135697
680-88527-34 MS	032013-RB-Bowls + Spoons	Total/NA	Water	8270C LL	135697
LCSD 660-135697/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	135697
MB 660-135697/1-A	Method Blank	Total/NA	Water	8270C LL	135697

#### Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-24	CV1360O-CS	Total/NA	Solid	8270C LL	135735

TestAmerica Savannah



## QC Association Summary

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

### GC/MS Semi VOA (Continued)

#### Analysis Batch: 135850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-25	CV1360P-CS	Total/NA	Solid	8270C LL	135735
680-88527-26	CV1360Q-CS	Total/NA	Solid	8270C LL	135735
680-88527-27	CV1360R-CS	Total/NA	Solid	8270C LL	135735
680-88527-28	CV1360S-CS	Total/NA	Solid	8270C LL	135735
680-88527-29	CV1360T-CS	Total/NA	Solid	8270C LL	135735
680-88527-30	CV1360AB-GS	Total/NA	Solid	8270C LL	135735

#### Analysis Batch: 135902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-21	CV1360L-CS	Total/NA	Solid	8270C LL	135754
680-88527-21 MS	CV1360L-CS	Total/NA	Solid	8270C LL	135754
680-88527-21 MSD	CV1360L-CS	Total/NA	Solid	8270C LL	135754
680-88527-31	CV1360AC-GS	Total/NA	Solid	8270C LL	135754
680-88527-32	CV1360AD-GS	Total/NA	Solid	8270C LL	135754
680-88527-33	CV1360AE-GS	Total/NA	Solid	8270C LL	135754
LCS 660-135754/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135754
MB 660-135754/1-A	Method Blank	Total/NA	Solid	8270C LL	135754

### General Chemistry

#### Analysis Batch: 135709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88527-21	CV1360L-CS	Total/NA	Solid	Moisture	
680-88527-22	CV1360M-CS	Total/NA	Solid	Moisture	
680-88527-23	CV1360N-CS	Total/NA	Solid	Moisture	
680-88527-24	CV1360O-CS	Total/NA	Solid	Moisture	
680-88527-25	CV1360P-CS	Total/NA	Solid	Moisture	
680-88527-26	CV1360Q-CS	Total/NA	Solid	Moisture	
680-88527-27	CV1360R-CS	Total/NA	Solid	Moisture	
680-88527-28	CV1360S-CS	Total/NA	Solid	Moisture	
680-88527-29	CV1360T-CS	Total/NA	Solid	Moisture	
680-88527-30	CV1360AB-GS	Total/NA	Solid	Moisture	
680-88527-31	CV1360AC-GS	Total/NA	Solid	Moisture	
680-88527-32	CV1360AD-GS	Total/NA	Solid	Moisture	
680-88527-33	CV1360AE-GS	Total/NA	Solid	Moisture	
680-88527-A-21 MS	680-88527-A-21 MS	Total/NA	Solid	Moisture	
680-88527-A-21 MSD	680-88527-A-21 MSD	Total/NA	Solid	Moisture	
MB 660-135709/1	Method Blank	Total/NA	Solid	Moisture	

## Lab Chronicle

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360L-CS**

**Date Collected: 03/19/13 13:50**

**Date Received: 03/21/13 09:44**

**Lab Sample ID: 680-88527-21**

**Matrix: Solid**

**Percent Solids: 59.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 15:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360M-CS**

**Date Collected: 03/19/13 13:54**

**Date Received: 03/21/13 09:44**

**Lab Sample ID: 680-88527-22**

**Matrix: Solid**

**Percent Solids: 65.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135792	03/26/13 21:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360N-CS**

**Date Collected: 03/19/13 14:00**

**Date Received: 03/21/13 09:44**

**Lab Sample ID: 680-88527-23**

**Matrix: Solid**

**Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135792	03/26/13 21:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360O-CS**

**Date Collected: 03/19/13 14:10**

**Date Received: 03/21/13 09:44**

**Lab Sample ID: 680-88527-24**

**Matrix: Solid**

**Percent Solids: 59.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 16:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360P-CS**

**Date Collected: 03/19/13 14:20**

**Date Received: 03/21/13 09:44**

**Lab Sample ID: 680-88527-25**

**Matrix: Solid**

**Percent Solids: 74.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135850	03/26/13 19:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

TestAmerica Savannah

## Lab Chronicle

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

**Client Sample ID: CV1360Q-CS**

**Lab Sample ID: 680-88527-26**

Date Collected: 03/19/13 14:40

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 20:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360R-CS**

**Lab Sample ID: 680-88527-27**

Date Collected: 03/19/13 14:45

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135850	03/26/13 20:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360S-CS**

**Lab Sample ID: 680-88527-28**

Date Collected: 03/19/13 14:53

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135850	03/26/13 20:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360T-CS**

**Lab Sample ID: 680-88527-29**

Date Collected: 03/19/13 15:23

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 20:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

**Client Sample ID: CV1360AB-GS**

**Lab Sample ID: 680-88527-30**

Date Collected: 03/19/13 14:05

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135735	03/25/13 11:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135850	03/26/13 21:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

TestAmerica Savannah

## Lab Chronicle

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

TestAmerica Job ID: 680-88527-2  
SDG: 68088527-2

### Client Sample ID: CV1360AC-GS

Lab Sample ID: 680-88527-31

Date Collected: 03/19/13 14:29

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 16:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

### Client Sample ID: CV1360AD-GS

Lab Sample ID: 680-88527-32

Date Collected: 03/19/13 14:48

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 15.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 16:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

### Client Sample ID: CV1360AE-GS

Lab Sample ID: 680-88527-33

Date Collected: 03/19/13 14:55

Matrix: Solid

Date Received: 03/21/13 09:44

Percent Solids: 54.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 16:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135709	03/25/13 06:21	AG	TAL TAM

### Client Sample ID: 032013-RB-Bowls + Spoons

Lab Sample ID: 680-88527-34

Date Collected: 03/20/13 10:30

Matrix: Water

Date Received: 03/21/13 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			135697	03/22/13 15:26	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135796	03/25/13 18:26	SCC	TAL TAM

#### Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63562

## 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 <u>35th Ave Removal</u>	PROJECT NO. <u>2005148-1356</u>	PROJECT LOCATION (STATE) <u>AL</u>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <u>2</u>	OF <u>4</u>
TAL (LAB) PROJECT MANAGER <u>Lisa Harvey</u>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>	

(b) (6)

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS
DATE	TIME							LL	PA	H	PCDA	8	Metals	PRESERVATIVE				
3-19-13	1225	<del>CVA</del> CV1360 E - CS	C	X			X											
	1250	CV1360 F - CS	C	X			X	X										
	1300	CV1360 G - CS	C	X			X	X										
	1315	CV1360 H - CS	C	X														
	1310	CV1360 I - CS	C	X														
	1330	CV1360 J - CS	C	X														
	1345	CV1360 K - CS	C	X														
	1348	CV1360 K - CSD	C	X														
	1350	CV1360 L - CS	C	X														
	1354	CV1360 M - CS	C	X														
	1400	CV1360 N - CS	C	X														
	1410	CV1360 D - CS	C	X														

RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>3-20-13</u>	TIME <u>1130</u>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>03/21/13</u>	TIME <u>0944</u>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <u>680</u> <u>88527</u>	LABORATORY REMARKS <u>3.8°</u>
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Serial Number 63561

## 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>3</i>	OF <i>4</i>		
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>		P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAAH	PCEA & Metals										STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____	
CLIENT (SITE) NAME		CLIENT PHONE	CLIENT FAX													EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____	
CLIENT ADDRESS				PRESERVATIVE												NUMBER OF COOLERS SUBMITTED PER SHIPMENT:		
COMPANY CONTRACTING THIS WORK (if applicable)				NUMBER OF CONTAINERS SUBMITTED												REMARKS		
SAMPLE		SAMPLE IDENTIFICATION																
DATE	TIME																	
3-19-13	1420	CV1360 P - CS			C	X		X										
	1440	CV1360 Q - CS			C	X		X										
	1445	CV1360 R - CS			C	X		X										
	1453	CV1360 S - CS			C	X		X										
	1523	CV1360 T - CS			C	X		X										
	1405	CV1360 AB - GS			G	X		X										
	1429	CV1360 AC - GS			G	X		X										
	1448	CV1360 AD - GS			G	X		X										
	1455	CV1360 AE - GS			G	X		X										
3-20-13	1030	032013 - RB - Bowls + Spoons			X	X		X	X									
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>				DATE 3-20-13	TIME 1130	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 03/21/13	TIME 0944	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88527	LABORATORY REMARKS 3.8									

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

SDG Number: 68088527-2

Login Number: 88527

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88527-2

SDG Number: 68088527-2

**Login Number: 88527**

**List Number: 1**

**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**

**List Creation: 03/22/13 10:17 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: 680-88527-2  
SDG: 68088527-2

### Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
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
Guam	State Program	9	09-005r	04-17-13
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
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
USDA	Federal		P330-11-00177	04-20-14

TestAmerica Savannah