

**REDACTED**

### Data Validation Checklist Semivolatile Organic Analyses

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

Project No: 15268508.20000  
 Job ID.: 680-88811-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Samples Collected: 03/27/2013  
 Date: 04/12/2013  
 Date: 04/24/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 032613-RB-shovel (680-88766-23).	

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

<sup>2</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 032613-RB-shovel (680-88766-23) was collected during the week of 3/25/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88527-2.	
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?	✓			<ul style="list-style-type: none"> <li>CV0283B-CSD (680-88811-10) is a field duplicate of CV0283B-CS (680-88811-9).</li> <li>CV0013C-CSD (680-88811-16) is a field duplicate of CV0013C-CS (680-88811-15).</li> </ul>	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>An initial calibration is to be associated with each sample analysis.</li> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>Instrument ID: BSMA5973</li> <li>Initial Calibration: 04/09/2013</li> <li>ICV: 04/09/13 @ 13:51</li> <li>Instrument ID: BSMC5973</li> <li>Initial Calibration: 04/02/2013</li> <li>ICV: 04/02/13 @ 15:34</li> <li>CCV: 04/05/13 @ 12:15</li> <li>CCV: 04/08/13 @ 12:56</li> <li>CCV: 04/09/13 @ 11:47</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 no individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR</li> </ul>		✓		ICV of 04/02/13 @ 15:34, instrument BSMC5973: <ul style="list-style-type: none"> <li>Benzo(a)pyrene @ -24.3%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 75.5%R</li> <li>Benzo(b)fluoranthene @ -21.1%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 79%R</li> </ul>	J

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
$r^2 \geq 0.99$ , and $RRF \geq 0.050$ ( $\geq 0.010$ for poor performers): <ul style="list-style-type: none"> <li>o If <math>\%RSD &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> <ul style="list-style-type: none"> <li>• ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and <math>RF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>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> </li> </ul>				<ul style="list-style-type: none"> <li>• Chrysene @ -23.5%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 76.5%R</li> <li>• Pyrene @ -21.4%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 differences and the analytes were detected in all samples; therefore, J flag detected 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			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 136104: 680-88811-1 (CV0509II-CS), MS/MSD</li> <li>• Prep Batch 136127: 680-88811-22 (Batch sample), MS/MSD.</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD <math>\%R &lt; 10</math>: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD <math>\%R &gt; 10</math> and <math>&lt; LCL</math>: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD <math>R\% &gt; UCL</math> (or 140): J-Flag positive results</li> </ul>		✓		CV0509II-CS (680-88811-1): <ul style="list-style-type: none"> <li>• Anthracene @ 53 and 36 %R (37-130), Qualification of data not required<sup>3</sup>.</li> <li>• Benzo[a]anthracene @ 6 and -5 %R (40-130), J-flag</li> <li>• Benzo[a]pyrene @ 15 and 5 %R (49-130), J-flag</li> <li>• Benzo[b]fluoranthene @ 5 and 9 %R (37-130), J-flag</li> <li>• Benzo[g,h,i] perylene @ 31 and 22 % R (32-130), J-flag</li> <li>• Benzo[k]fluoranthene @ 24 and -3 % R (32-130), J-flag</li> </ul>	J

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> <li>• Chrysene @ 15 and 1 %R (41-130), J-flag</li> <li>• Fluoranthene @ -77 and -82 (40-130), J-flag</li> <li>• Indeno[1,2,3-cd]pyrene @ 32 and 22 %R (30-130). Qualification of data not required<sup>3</sup>.</li> <li>• Phenanthrene @ -47 and -54 (42-130), J-flag</li> <li>• Pyrene @ -44 and -55 %R (44-130), J-flag</li> </ul>	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i></p> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li> </ul>	✓				
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>• If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>• If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>• If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>• If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives</li> </ul>	✓				



**Data Validation Checklist (Continued)**

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

**DV Flag Definitions:**

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

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

# Sample Summary

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-1	CV0509II-CS	Solid	03/27/13 08:25	03/29/13 09:45
680-88811-2	CV0509JJ-CS	Solid	03/27/13 08:33	03/29/13 09:45
680-88811-3	CV0509KK-CS	Solid	03/27/13 08:45	03/29/13 09:45
680-88811-4	CV0509LL-CS	Solid	03/27/13 08:54	03/29/13 09:45
680-88811-5	CV0509MM-CS	Solid	03/27/13 08:50	03/29/13 09:45
680-88811-6	CV0509AO-GS	Solid	03/27/13 08:26	03/29/13 09:45
680-88811-7	CV0509AP-GS	Solid	03/27/13 08:35	03/29/13 09:45
680-88811-8	CV0283A-CS	Solid	03/27/13 09:30	03/29/13 09:45
680-88811-9	CV0283B-CS	Solid	03/27/13 09:35	03/29/13 09:45
680-88811-10	CV0283B-CSD	Solid	03/27/13 09:37	03/29/13 09:45
680-88811-11	CV0283C-CS	Solid	03/27/13 09:38	03/29/13 09:45
680-88811-12	CV0284A-CS	Solid	03/27/13 09:15	03/29/13 09:45
680-88811-13	CV0013A-CS	Solid	03/27/13 09:45	03/29/13 09:45
680-88811-14	CV0013B-CS	Solid	03/27/13 09:55	03/29/13 09:45
680-88811-15	CV0013C-CS	Solid	03/27/13 09:58	03/29/13 09:45
680-88811-16	CV0013C-CSD	Solid	03/27/13 10:00	03/29/13 09:45
680-88811-17	CV0013D-CS	Solid	03/27/13 10:07	03/29/13 09:45
680-88811-18	CV0013E-CS	Solid	03/27/13 10:15	03/29/13 09:45
680-88811-19	CV0013AB-GS	Solid	03/27/13 09:50	03/29/13 09:45
680-88811-20	CV1036A-CS	Solid	03/27/13 12:35	03/29/13 09:45

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0283B-CS (680-88811-9)	RL	CV0283B-CSD (680-88811-10)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	53	J 230	46	J 220	µg/kg	1125	NA	7	450	None, absolute difference ≤ 2x Avg RL
Anthracene	68	48	52	46	µg/kg	235	NA	16	94	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	450	45	320	43	µg/kg	220	34	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	330	59	280	56	µg/kg	287.5	NA	50	115	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	440	69	340	66	µg/kg	337.5	26	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	160	110	140	110	µg/kg	550	NA	20	220	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	220	45	110	43	µg/kg	220	NA	110	88	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	360	51	300	49	µg/kg	250	18	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene		110	68	J 110	µg/kg	550	NA	68	220	None, absolute difference ≤ 2x Avg RL
Fluoranthene	640	110	380	110	µg/kg	550	NA	260	220	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	27	J 110	24	J 110	µg/kg	550	NA	3	220	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	150	110	100	J 110	µg/kg	550	NA	50	220	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	74	J 230	120	J 220	µg/kg	1125	NA	46	450	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	62	J 230	100	J 220	µg/kg	1125	NA	38	450	None, absolute difference ≤ 2x Avg RL
Naphthalene	75	J 230	83	J 220	µg/kg	1125	NA	8	450	None, absolute difference ≤ 2x Avg RL
Phenanthrene	320	45	170	43	µg/kg	220	NA	150	88	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	670	110	390	110	µg/kg	550	NA	280	220	J/UJ-flag, absolute difference > 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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



Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0013C-CS (680-88811-15)	RL	CV0013C-CSD (680-88811-16)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action			
Acenaphthylene		240	32	J	200	μg/kg	1100	NA	32	440	None, absolute difference ≤ 2x Avg RL		
Anthracene	68	50	40	J	42	μg/kg	230	NA	28	92	None, absolute difference ≤ 2x Avg RL		
Benzo(a)anthracene	420	47	260		40	μg/kg	217.5	47	NA	NA	None, RPD ≤ 50%		
Benzo(a)pyrene	330	62	260		52	μg/kg	285	NA	70	114	None, absolute difference ≤ 2x Avg RL		
Benzo(b)fluoranthene	430	72	420		61	μg/kg	332.5	2	NA	NA	None, RPD ≤ 50%		
Benzo(g,h,i)perylene	320	120	250		100	μg/kg	550	NA	70	220	None, absolute difference ≤ 2x Avg RL		
Benzo(k)fluoranthene	330	47	120		40	μg/kg	217.5	NA	210	87	<b>J/UJ-flag, absolute difference &gt; 2x Avg RL</b>		
Chrysene	420	53	360		45	μg/kg	245	15	NA	NA	None, RPD ≤ 50%		
Dibenzo(a,h)anthracene	89	J	120		80	J	100	μg/kg	550	NA	9	220	None, absolute difference ≤ 2x Avg RL
Fluoranthene	530		120		380		100	μg/kg	550	NA	150	220	None, absolute difference ≤ 2x Avg RL
Fluorene	54	J	120		22	J	100	μg/kg	550	NA	32	220	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	200		120		200		100	μg/kg	550	NA	0	220	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	89	J	240		57	J	200	μg/kg	1100	NA	32	440	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	93	J	240		93	J	200	μg/kg	1100	NA	0	440	None, absolute difference ≤ 2x Avg RL
Naphthalene	110	J	240		93	J	200	μg/kg	1100	NA	17	440	None, absolute difference ≤ 2x Avg RL
Phenanthrene	320		47		230		40	μg/kg	217.5	33	NA	NA	None, RPD ≤ 50%
Pyrene	520		120		350		100	μg/kg	550	NA	170	220	None, absolute difference ≤ 2x Avg RL

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

μg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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

**ATTACHMENT C**  
**CASE NARRATIVE**

# Case Narrative

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

**Job ID: 680-88811-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88811-1**

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

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

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

### RECEIPT

The samples were received on 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0509II-CS (680-88811-1), CV0509JJ-CS (680-88811-2), CV0509KK-CS (680-88811-3), CV0509LL-CS (680-88811-4), CV0509MM-CS (680-88811-5), CV0509AO-GS (680-88811-6), CV0509AP-GS (680-88811-7), CV0283A-CS (680-88811-8), CV0283B-CS (680-88811-9), CV0283B-CSD (680-88811-10), CV0283C-CS (680-88811-11), CV0284A-CS (680-88811-12), CV0013A-CS (680-88811-13), CV0013B-CS (680-88811-14), CV0013C-CS (680-88811-15), CV0013C-CSD (680-88811-16), CV0013D-CS (680-88811-17), CV0013E-CS (680-88811-18), CV0013AB-GS (680-88811-19) and CV1036A-CS (680-88811-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013, 04/08/2013 and 04/09/2013.

Samples CV0509II-CS (680-88811-1)[4X], CV0509JJ-CS (680-88811-2)[4X], CV0509AO-GS (680-88811-6)[4X], CV0509AP-GS (680-88811-7)[4X], CV0283A-CS (680-88811-8)[4X], CV0283B-CS (680-88811-9)[4X], CV0283B-CSD (680-88811-10)[4X], CV0283C-CS (680-88811-11)[4X], CV0284A-CS (680-88811-12)[4X], CV0013C-CS (680-88811-15)[4X] and CV0013C-CSD (680-88811-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0509II-CS (680-88811-1) in batch 660-136171.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88811-22 in batch 660-136269.  
2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULT**

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509II-CS**

**Lab Sample ID: 680-88811-1**

Date Collected: 03/27/13 08:25

Matrix: Solid

Date Received: 03/29/13 09:45

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	670	U	670	130	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Acenaphthylene	69	J	270	34	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Anthracene	320	F	56	28	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Benzo[a]anthracene	1200	F	54	26	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Benzo[a]pyrene	860	F	70	35	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Benzo[b]fluoranthene	1100	F	82	41	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Benzo[g,h,i]perylene	620	F	130	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Benzo[k]fluoranthene	880	F	54	24	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Chrysene	1000	F	60	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Dibenz(a,h)anthracene	200		130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Fluoranthene	2200	F	130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Fluorene	120	J	130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Indeno[1,2,3-cd]pyrene	520	F	130	48	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
1-Methylnaphthalene	160	J	270	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
2-Methylnaphthalene	230	J	270	48	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Naphthalene	180	J	270	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Phenanthrene	1700	F	54	26	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
Pyrene	1900	F	130	25	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130	04/04/13 10:07	04/05/13 22:45	4

**Client Sample ID: CV0509JJ-CS**

**Lab Sample ID: 680-88811-2**

Date Collected: 03/27/13 08:33

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	640	U	640	130	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Acenaphthylene	77	J	260	32	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Anthracene	130		54	27	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Benzo[a]anthracene	630		51	25	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Benzo[a]pyrene	520		67	33	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Benzo[b]fluoranthene	920		78	39	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Benzo[g,h,i]perylene	400		130	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Benzo[k]fluoranthene	390		51	23	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Chrysene	590		58	29	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Dibenz(a,h)anthracene	140		130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Fluoranthene	720		130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Fluorene	35	J	130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Indeno[1,2,3-cd]pyrene	340		130	45	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
1-Methylnaphthalene	89	J	260	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
2-Methylnaphthalene	170	J	260	45	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Naphthalene	160	J	260	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Phenanthrene	400		51	25	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
Pyrene	710		130	24	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130	04/04/13 10:07	04/05/13 23:40	4

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

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509KK-CS**

**Lab Sample ID: 680-88811-3**

Date Collected: 03/27/13 08:45

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	44	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Acenaphthylene	160		48	6.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Anthracene	230		10	5.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[a]anthracene	960		9.6	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[a]pyrene	940		12	6.2	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[b]fluoranthene	2200		15	7.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[g,h,i]perylene	690		24	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[k]fluoranthene	660		9.6	4.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Chrysene	1400		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Dibenz(a,h)anthracene	240		24	4.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Fluoranthene	1100		24	4.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Fluorene	48		24	4.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Indeno[1,2,3-cd]pyrene	700		24	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
1-Methylnaphthalene	83		48	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
2-Methylnaphthalene	110		48	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Naphthalene	110		48	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Phenanthrene	480		9.6	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Pyrene	960		24	4.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				04/04/13 10:07	04/09/13 13:23	1

**Client Sample ID: CV0509LL-CS**

**Lab Sample ID: 680-88811-4**

Date Collected: 03/27/13 08:54

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 44.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	56	J	220	44	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Acenaphthylene	30	J	89	11	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Anthracene	110		19	9.3	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[a]anthracene	360		18	8.7	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[a]pyrene	270		23	12	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[b]fluoranthene	440		27	14	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[g,h,i]perylene	180		44	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[k]fluoranthene	210		18	8.0	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Chrysene	350		20	10	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Dibenz(a,h)anthracene	61		44	9.1	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Fluoranthene	620		44	8.9	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Fluorene	62		44	9.1	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Indeno[1,2,3-cd]pyrene	150		44	16	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
1-Methylnaphthalene	59	J	89	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
2-Methylnaphthalene	100		89	16	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Naphthalene	160		89	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Phenanthrene	490		18	8.7	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Pyrene	620		44	8.2	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/04/13 10:07	04/08/13 20:46	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509MM-CS**

**Lab Sample ID: 680-88811-5**

Date Collected: 03/27/13 08:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Acenaphthylene</b>	<b>37</b>	<b>J</b>	64	8.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Anthracene</b>	<b>85</b>		13	6.7	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[a]anthracene</b>	<b>420</b>		13	6.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[a]pyrene</b>	<b>350</b>		17	8.3	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[b]fluoranthene</b>	<b>590</b>		20	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[g,h,i]perylene</b>	<b>240</b>		32	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[k]fluoranthene</b>	<b>300</b>		13	5.8	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Chrysene</b>	<b>430</b>		14	7.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Dibenz(a,h)anthracene</b>	<b>100</b>		32	6.6	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Fluoranthene</b>	<b>540</b>		32	6.4	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Fluorene</b>	<b>37</b>		32	6.6	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		32	11	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>1-Methylnaphthalene</b>	<b>82</b>		64	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>2-Methylnaphthalene</b>	<b>130</b>		64	11	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Naphthalene</b>	<b>94</b>		64	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Phenanthrene</b>	<b>330</b>		13	6.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Pyrene</b>	<b>550</b>		32	5.9	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	65		30 - 130				04/04/13 10:07	04/08/13 21:05	1

**Client Sample ID: CV0509AO-GS**

**Lab Sample ID: 680-88811-6**

Date Collected: 03/27/13 08:26

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 77.5

**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	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Acenaphthylene</b>	<b>39</b>	<b>J</b>	210	26	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Anthracene</b>	<b>50</b>		43	22	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[a]anthracene</b>	<b>350</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[a]pyrene</b>	<b>320</b>		54	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[b]fluoranthene</b>	<b>530</b>		63	32	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[g,h,i]perylene</b>	<b>270</b>		100	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[k]fluoranthene</b>	<b>170</b>		41	19	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Chrysene</b>	<b>320</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Dibenz(a,h)anthracene</b>	<b>99</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Fluoranthene</b>	<b>420</b>		100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Fluorene</b>	<b>34</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		100	37	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>1-Methylnaphthalene</b>	<b>69</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>2-Methylnaphthalene</b>	<b>89</b>	<b>J</b>	210	37	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Naphthalene</b>	<b>79</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Phenanthrene</b>	<b>270</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Pyrene</b>	<b>420</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	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	97		30 - 130				04/04/13 10:07	04/08/13 21:23	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509AP-GS**

**Lab Sample ID: 680-88811-7**

Date Collected: 03/27/13 08:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.0

**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	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Acenaphthylene</b>	<b>79</b>	<b>J</b>	260	33	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Anthracene</b>	<b>180</b>		55	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[a]anthracene</b>	<b>700</b>		52	25	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[a]pyrene</b>	<b>670</b>		68	34	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[b]fluoranthene</b>	<b>1100</b>		80	40	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[g,h,i]perylene</b>	<b>410</b>		130	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[k]fluoranthene</b>	<b>240</b>		52	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Chrysene</b>	<b>800</b>		59	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Dibenz(a,h)anthracene</b>	<b>140</b>		130	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Fluoranthene</b>	<b>1200</b>		130	26	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Fluorene</b>	<b>77</b>	<b>J</b>	130	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>320</b>		130	46	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>1-Methylnaphthalene</b>	<b>110</b>	<b>J</b>	260	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>2-Methylnaphthalene</b>	<b>130</b>	<b>J</b>	260	46	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	260	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Phenanthrene</b>	<b>670</b>		52	25	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Pyrene</b>	<b>1100</b>		130	24	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	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	81		30 - 130				04/04/13 10:07	04/08/13 21:41	4

**Client Sample ID: CV0283A-CS**

**Lab Sample ID: 680-88811-8**

Date Collected: 03/27/13 09:30

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 53.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	750	U	750	150	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Acenaphthylene</b>	<b>38</b>	<b>J</b>	300	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Anthracene</b>	<b>69</b>		63	32	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[a]anthracene</b>	<b>310</b>		60	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[a]pyrene</b>	<b>220</b>		78	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[b]fluoranthene</b>	<b>440</b>		92	46	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>	<b>J</b>	150	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[k]fluoranthene</b>	<b>230</b>		60	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Chrysene</b>	<b>500</b>		68	34	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Dibenz(a,h)anthracene</b>	<b>58</b>	<b>J</b>	150	31	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Fluoranthene</b>	<b>340</b>		150	30	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Fluorene</b>	<b>31</b>	<b>J</b>	150	31	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>160</b>		150	53	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>1-Methylnaphthalene</b>	<b>80</b>	<b>J</b>	300	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>2-Methylnaphthalene</b>	<b>100</b>	<b>J</b>	300	53	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Naphthalene</b>	<b>92</b>	<b>J</b>	300	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Phenanthrene</b>	<b>250</b>		60	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Pyrene</b>	<b>430</b>		150	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	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	87		30 - 130				04/04/13 10:07	04/08/13 22:00	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0283B-CS**

**Lab Sample ID: 680-88811-9**

Date Collected: 03/27/13 09:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 70.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Acenaphthylene</b>	<b>53</b>	<b>J</b>	230	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Anthracene</b>	<b>68</b>		48	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[a]anthracene</b>	<b>450</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[a]pyrene</b>	<b>330</b>		59	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[b]fluoranthene</b>	<b>440</b>		69	35	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[g,h,i]perylene</b>	<b>160</b>		110	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[k]fluoranthene</b>	<b>220</b>		45	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Chrysene</b>	<b>360</b>		51	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Fluoranthene</b>	<b>640</b>		110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Fluorene</b>	<b>27</b>	<b>J</b>	110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		110	40	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>1-Methylnaphthalene</b>	<b>74</b>	<b>J</b>	230	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>2-Methylnaphthalene</b>	<b>62</b>	<b>J</b>	230	40	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Naphthalene</b>	<b>75</b>	<b>J</b>	230	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Phenanthrene</b>	<b>320</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Pyrene</b>	<b>670</b>		110	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	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	84		30 - 130				04/04/13 10:07	04/08/13 22:18	4

**Client Sample ID: CV0283B-CSD**

**Lab Sample ID: 680-88811-10**

Date Collected: 03/27/13 09:37

Matrix: Solid

Date Received: 03/29/13 09:45

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	540	U	540	110	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Acenaphthylene</b>	<b>46</b>	<b>J</b>	220	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Anthracene</b>	<b>52</b>		46	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[a]anthracene</b>	<b>320</b>		43	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[a]pyrene</b>	<b>280</b>		56	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[b]fluoranthene</b>	<b>340</b>		66	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		110	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[k]fluoranthene</b>	<b>110</b>		43	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Chrysene</b>	<b>300</b>		49	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Dibenz(a,h)anthracene</b>	<b>68</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Fluoranthene</b>	<b>380</b>		110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Fluorene</b>	<b>24</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>100</b>	<b>J</b>	110	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>1-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	220	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>2-Methylnaphthalene</b>	<b>100</b>	<b>J</b>	220	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Naphthalene</b>	<b>83</b>	<b>J</b>	220	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Phenanthrene</b>	<b>170</b>		43	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Pyrene</b>	<b>390</b>		110	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	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	90		30 - 130				04/04/13 10:07	04/08/13 22:36	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0283C-CS**

**Lab Sample ID: 680-88811-11**

Date Collected: 03/27/13 09:38

Matrix: Solid

Date Received: 03/29/13 09:45

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	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Acenaphthylene</b>	<b>38</b>	<b>J</b>	210	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Anthracene</b>	<b>63</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[a]anthracene</b>	<b>390</b>		42	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[a]pyrene</b>	<b>330</b>		55	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[b]fluoranthene</b>	<b>530</b>		65	32	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[g,h,i]perylene</b>	<b>260</b>		110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[k]fluoranthene</b>	<b>220</b>		42	19	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Chrysene</b>	<b>460</b>		48	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Dibenz(a,h)anthracene</b>	<b>85</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Fluoranthene</b>	<b>500</b>		110	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Fluorene</b>	<b>30</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190</b>		110	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>1-Methylnaphthalene</b>	<b>190</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>2-Methylnaphthalene</b>	<b>160</b>	<b>J</b>	210	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Phenanthrene</b>	<b>350</b>		42	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Pyrene</b>	<b>530</b>		110	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	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	78		30 - 130				04/04/13 10:07	04/08/13 22:55	4

**Client Sample ID: CV0284A-CS**

**Lab Sample ID: 680-88811-12**

Date Collected: 03/27/13 09:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 76.1

**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	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Acenaphthylene</b>	<b>35</b>	<b>J</b>	210	26	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Anthracene</b>	<b>99</b>		43	22	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[a]anthracene</b>	<b>470</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[a]pyrene</b>	<b>300</b>		54	27	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[b]fluoranthene</b>	<b>500</b>		63	31	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		100	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[k]fluoranthene</b>	<b>190</b>		41	19	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Chrysene</b>	<b>320</b>		46	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Dibenz(a,h)anthracene</b>	<b>89</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Fluoranthene</b>	<b>650</b>		100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Fluorene</b>	<b>37</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>		100	37	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>1-Methylnaphthalene</b>	<b>81</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>2-Methylnaphthalene</b>	<b>83</b>	<b>J</b>	210	37	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Naphthalene</b>	<b>68</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Phenanthrene</b>	<b>380</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Pyrene</b>	<b>500</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	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	85		30 - 130				04/04/13 10:07	04/08/13 23:13	4

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

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013A-CS**

**Lab Sample ID: 680-88811-13**

Date Collected: 03/27/13 09:45

Matrix: Solid

Date Received: 03/29/13 09:45

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	130	U	130	26	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Acenaphthylene	68		52	6.6	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Anthracene	74		11	5.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[a]anthracene	450		10	5.1	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[a]pyrene	390		14	6.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[b]fluoranthene	610		16	8.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[g,h,i]perylene	270		26	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[k]fluoranthene	280		10	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Chrysene	460		12	5.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Dibenz(a,h)anthracene	110		26	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Fluoranthene	730		26	5.2	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Fluorene	15	J	26	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Indeno[1,2,3-cd]pyrene	270		26	9.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
1-Methylnaphthalene	23	J	52	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
2-Methylnaphthalene	29	J	52	9.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Naphthalene	39	J	52	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Phenanthrene	230		10	5.1	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Pyrene	630		26	4.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				04/04/13 10:07	04/09/13 13:41	1

**Client Sample ID: CV0013B-CS**

**Lab Sample ID: 680-88811-14**

Date Collected: 03/27/13 09:55

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	40	J	140	28	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Acenaphthylene	17	J	56	7.0	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Anthracene	78		12	5.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[a]anthracene	260		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[a]pyrene	210		14	7.2	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[b]fluoranthene	350		17	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[g,h,i]perylene	150		28	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[k]fluoranthene	120		11	5.0	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Chrysene	250		13	6.3	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Dibenz(a,h)anthracene	57		28	5.7	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Fluoranthene	550		28	5.6	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Fluorene	33		28	5.7	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Indeno[1,2,3-cd]pyrene	140		28	9.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
1-Methylnaphthalene	31	J	56	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
2-Methylnaphthalene	42	J	56	9.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Naphthalene	57		56	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Phenanthrene	370		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Pyrene	450		28	5.2	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	52		30 - 130				04/04/13 10:07	04/09/13 14:00	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013C-CS**

**Lab Sample ID: 680-88811-15**

Date Collected: 03/27/13 09:58

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 66.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Anthracene</b>	<b>68</b>		50	25	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[a]anthracene</b>	<b>420</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[a]pyrene</b>	<b>330</b>		62	31	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[b]fluoranthene</b>	<b>430</b>		72	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[g,h,i]perylene</b>	<b>320</b>		120	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[k]fluoranthene</b>	<b>330</b>		47	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Chrysene</b>	<b>420</b>		53	27	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Dibenz(a,h)anthracene</b>	<b>89</b>	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Fluoranthene</b>	<b>530</b>		120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Fluorene</b>	<b>54</b>	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		120	42	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>1-Methylnaphthalene</b>	<b>89</b>	J	240	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>2-Methylnaphthalene</b>	<b>93</b>	J	240	42	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Naphthalene</b>	<b>110</b>	J	240	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Phenanthrene</b>	<b>320</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Pyrene</b>	<b>520</b>		120	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	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	99		30 - 130				04/04/13 10:07	04/09/13 14:18	4

**Client Sample ID: CV0013C-CSD**

**Lab Sample ID: 680-88811-16**

Date Collected: 03/27/13 10:00

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Acenaphthylene</b>	<b>32</b>	J	200	25	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Anthracene</b>	<b>40</b>	J	42	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[a]anthracene</b>	<b>260</b>		40	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[a]pyrene</b>	<b>260</b>		52	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[b]fluoranthene</b>	<b>420</b>		61	31	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[g,h,i]perylene</b>	<b>250</b>		100	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		40	18	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Chrysene</b>	<b>360</b>		45	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Dibenz(a,h)anthracene</b>	<b>80</b>	J	100	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Fluoranthene</b>	<b>380</b>		100	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Fluorene</b>	<b>22</b>	J	100	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		100	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>1-Methylnaphthalene</b>	<b>57</b>	J	200	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>2-Methylnaphthalene</b>	<b>93</b>	J	200	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Naphthalene</b>	<b>93</b>	J	200	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Phenanthrene</b>	<b>230</b>		40	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Pyrene</b>	<b>350</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	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	83		30 - 130				04/04/13 10:07	04/09/13 14:36	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013D-CS**

**Lab Sample ID: 680-88811-17**

Date Collected: 03/27/13 10:07

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	53	J	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Acenaphthylene	23	J	50	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Anthracene	130		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[a]anthracene	630		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[a]pyrene	630		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[b]fluoranthene	1000		15	7.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[g,h,i]perylene	500		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[k]fluoranthene	370		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Chrysene	660		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Dibenz(a,h)anthracene	180		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Fluoranthene	1000		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Fluorene	71		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Indeno[1,2,3-cd]pyrene	410		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
1-Methylnaphthalene	93		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
2-Methylnaphthalene	100		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Naphthalene	89		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Phenanthrene	600		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Pyrene	950		25	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	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				04/04/13 13:28	04/08/13 15:17	1

**Client Sample ID: CV0013E-CS**

**Lab Sample ID: 680-88811-18**

Date Collected: 03/27/13 10:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Acenaphthylene	19	J	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Anthracene	87		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[a]anthracene	530		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[a]pyrene	520		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[b]fluoranthene	870		15	7.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[g,h,i]perylene	440		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[k]fluoranthene	310		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Chrysene	490		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Dibenz(a,h)anthracene	130		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Fluoranthene	800		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Fluorene	23	J	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Indeno[1,2,3-cd]pyrene	390		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
1-Methylnaphthalene	63		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
2-Methylnaphthalene	92		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Naphthalene	52		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Phenanthrene	400		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Pyrene	680		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	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				04/04/13 13:28	04/08/13 15:35	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013AB-GS**

**Lab Sample ID: 680-88811-19**

Date Collected: 03/27/13 09:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Acenaphthylene	51	J	53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Anthracene	120		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[a]anthracene	690		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[a]pyrene	610		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[b]fluoranthene	980		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[g,h,i]perylene	460		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[k]fluoranthene	360		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Chrysene	660		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Dibenz(a,h)anthracene	150		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Fluoranthene	1200		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Fluorene	42		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Indeno[1,2,3-cd]pyrene	430		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
1-Methylnaphthalene	110		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
2-Methylnaphthalene	100		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Naphthalene	76		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Phenanthrene	680		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Pyrene	1100		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	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				04/04/13 13:28	04/08/13 15:54	1

**Client Sample ID: CV1036A-CS**

**Lab Sample ID: 680-88811-20**

Date Collected: 03/27/13 12:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	32	J	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Acenaphthylene	48	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Anthracene	110		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[a]anthracene	520		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[a]pyrene	600		13	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[b]fluoranthene	1000		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[g,h,i]perylene	460		26	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[k]fluoranthene	350		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Chrysene	720		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Dibenz(a,h)anthracene	150		26	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Fluoranthene	820		26	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Fluorene	40		26	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Indeno[1,2,3-cd]pyrene	430		26	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
1-Methylnaphthalene	140		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
2-Methylnaphthalene	180		51	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Naphthalene	160		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Phenanthrene	410		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Pyrene	780		26	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	74		30 - 130				04/04/13 13:28	04/08/13 16:12	1

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

TestAmerica Savannah

## ANALYTICAL REPORT

Job Number: 680-88811-1

SDG Number: 68088811-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
4/10/2013 4:19 PM

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Designee for

Lisa Harvey

Project Manager II

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

04/10/2013

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

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**TestAmerica Laboratories, Inc.**

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88811-1**

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

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

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

### RECEIPT

The samples were received on 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0509II-CS (680-88811-1), CV0509JJ-CS (680-88811-2), CV0509KK-CS (680-88811-3), CV0509LL-CS (680-88811-4), CV0509MM-CS (680-88811-5), CV0509AO-GS (680-88811-6), CV0509AP-GS (680-88811-7), CV0283A-CS (680-88811-8), CV0283B-CS (680-88811-9), CV0283B-CSD (680-88811-10), CV0283C-CS (680-88811-11), CV0284A-CS (680-88811-12), CV0013A-CS (680-88811-13), CV0013B-CS (680-88811-14), CV0013C-CS (680-88811-15), CV0013C-CSD (680-88811-16), CV0013D-CS (680-88811-17), CV0013E-CS (680-88811-18), CV0013AB-GS (680-88811-19) and CV1036A-CS (680-88811-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013, 04/08/2013 and 04/09/2013.

Samples CV0509II-CS (680-88811-1)[4X], CV0509JJ-CS (680-88811-2)[4X], CV0509AO-GS (680-88811-6)[4X], CV0509AP-GS (680-88811-7)[4X], CV0283A-CS (680-88811-8)[4X], CV0283B-CS (680-88811-9)[4X], CV0283B-CSD (680-88811-10)[4X], CV0283C-CS (680-88811-11)[4X], CV0284A-CS (680-88811-12)[4X], CV0013C-CS (680-88811-15)[4X] and CV0013C-CSD (680-88811-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0509II-CS (680-88811-1) in batch 660-136171.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88811-22 in batch 660-136269. 2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

Sdg Number: 68088811-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88811-1	CV0509II-CS	Solid	03/27/2013 0825	03/29/2013 0945
680-88811-1MS	CV0509II-CS	Solid	03/27/2013 0825	03/29/2013 0945
680-88811-1MSD	CV0509II-CS	Solid	03/27/2013 0825	03/29/2013 0945
680-88811-2	CV0509JJ-CS	Solid	03/27/2013 0833	03/29/2013 0945
680-88811-3	CV0509KK-CS	Solid	03/27/2013 0845	03/29/2013 0945
680-88811-4	CV0509LL-CS	Solid	03/27/2013 0854	03/29/2013 0945
680-88811-5	CV0509MM-CS	Solid	03/27/2013 0850	03/29/2013 0945
680-88811-6	CV0509AO-GS	Solid	03/27/2013 0826	03/29/2013 0945
680-88811-7	CV0509AP-GS	Solid	03/27/2013 0835	03/29/2013 0945
680-88811-8	CV0283A-CS	Solid	03/27/2013 0930	03/29/2013 0945
680-88811-9	CV0283B-CS	Solid	03/27/2013 0935	03/29/2013 0945
680-88811-10	CV0283B-CSD	Solid	03/27/2013 0937	03/29/2013 0945
680-88811-11	CV0283C-CS	Solid	03/27/2013 0938	03/29/2013 0945
680-88811-12	CV0284A-CS	Solid	03/27/2013 0915	03/29/2013 0945
680-88811-13	CV0013A-CS	Solid	03/27/2013 0945	03/29/2013 0945
680-88811-14	CV0013B-CS	Solid	03/27/2013 0955	03/29/2013 0945
680-88811-15	CV0013C-CS	Solid	03/27/2013 0958	03/29/2013 0945
680-88811-16	CV0013C-CSD	Solid	03/27/2013 1000	03/29/2013 0945
680-88811-17	CV0013D-CS	Solid	03/27/2013 1007	03/29/2013 0945
680-88811-18	CV0013E-CS	Solid	03/27/2013 1015	03/29/2013 0945
680-88811-19	CV0013AB-GS	Solid	03/27/2013 0950	03/29/2013 0945
680-88811-20	CV1036A-CS	Solid	03/27/2013 1235	03/29/2013 0945

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1  
Sdg Number: 68088811-1

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

### 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: 680-88811-1

Sdg Number: 68088811-1

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

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

Sdg Number: 68088811-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

Sdg Number: 68088811-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-136104</b>					
LCS 660-136104/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136104/1-A	Method Blank	T	Solid	3546	
680-88811-1	CV0509II-CS	T	Solid	3546	
680-88811-1MS	Matrix Spike	T	Solid	3546	
680-88811-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-2	CV0509JJ-CS	T	Solid	3546	
680-88811-3	CV0509KK-CS	T	Solid	3546	
680-88811-4	CV0509LL-CS	T	Solid	3546	
680-88811-5	CV0509MM-CS	T	Solid	3546	
680-88811-6	CV0509AO-GS	T	Solid	3546	
680-88811-7	CV0509AP-GS	T	Solid	3546	
680-88811-8	CV0283A-CS	T	Solid	3546	
680-88811-9	CV0283B-CS	T	Solid	3546	
680-88811-10	CV0283B-CSD	T	Solid	3546	
680-88811-11	CV0283C-CS	T	Solid	3546	
680-88811-12	CV0284A-CS	T	Solid	3546	
680-88811-13	CV0013A-CS	T	Solid	3546	
680-88811-14	CV0013B-CS	T	Solid	3546	
680-88811-15	CV0013C-CS	T	Solid	3546	
680-88811-16	CV0013C-CSD	T	Solid	3546	
<b>Prep Batch: 660-136127</b>					
LCS 660-136127/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136127/1-A	Method Blank	T	Solid	3546	
680-88811-17	CV0013D-CS	T	Solid	3546	
680-88811-18	CV0013E-CS	T	Solid	3546	
680-88811-19	CV0013AB-GS	T	Solid	3546	
680-88811-20	CV1036A-CS	T	Solid	3546	
680-88811-A-22-B MS	Matrix Spike	T	Solid	3546	
680-88811-A-22-B MSDL	Matrix Spike	T	Solid	3546	
680-88811-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88811-A-22-C MSDDL	Matrix Spike Duplicate	T	Solid	3546	
<b>Analysis Batch:660-136171</b>					
LCS 660-136104/2-A	Lab Control Sample	T	Solid	8270C LL	660-136104
MB 660-136104/1-A	Method Blank	T	Solid	8270C LL	660-136104
680-88811-1	CV0509II-CS	T	Solid	8270C LL	660-136104
680-88811-1MS	Matrix Spike	T	Solid	8270C LL	660-136104
680-88811-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136104
680-88811-2	CV0509JJ-CS	T	Solid	8270C LL	660-136104



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

Sdg Number: 68088811-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:660-136263</b>					
680-88811-3	CV0509KK-CS	T	Solid	8270C LL	660-136104
680-88811-13	CV0013A-CS	T	Solid	8270C LL	660-136104
680-88811-14	CV0013B-CS	T	Solid	8270C LL	660-136104
680-88811-15	CV0013C-CS	T	Solid	8270C LL	660-136104
680-88811-16	CV0013C-CSD	T	Solid	8270C LL	660-136104
<b>Analysis Batch:660-136269</b>					
680-88811-A-22-B MSDL	Matrix Spike	T	Solid	8270C LL	660-136127
680-88811-A-22-C MSDDL	Matrix Spike Duplicate	T	Solid	8270C LL	660-136127
<b>Analysis Batch:660-136271</b>					
LCS 660-136127/2-A	Lab Control Sample	T	Solid	8270C LL	660-136127
MB 660-136127/1-A	Method Blank	T	Solid	8270C LL	660-136127
680-88811-4	CV0509LL-CS	T	Solid	8270C LL	660-136104
680-88811-5	CV0509MM-CS	T	Solid	8270C LL	660-136104
680-88811-6	CV0509AO-GS	T	Solid	8270C LL	660-136104
680-88811-7	CV0509AP-GS	T	Solid	8270C LL	660-136104
680-88811-8	CV0283A-CS	T	Solid	8270C LL	660-136104
680-88811-9	CV0283B-CS	T	Solid	8270C LL	660-136104
680-88811-10	CV0283B-CSD	T	Solid	8270C LL	660-136104
680-88811-11	CV0283C-CS	T	Solid	8270C LL	660-136104
680-88811-12	CV0284A-CS	T	Solid	8270C LL	660-136104
680-88811-17	CV0013D-CS	T	Solid	8270C LL	660-136127
680-88811-18	CV0013E-CS	T	Solid	8270C LL	660-136127
680-88811-19	CV0013AB-GS	T	Solid	8270C LL	660-136127
680-88811-20	CV1036A-CS	T	Solid	8270C LL	660-136127
680-88811-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-136127
680-88811-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136127

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

Sdg Number: 68088811-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135961</b>					
680-88811-1	CV0509II-CS	T	Solid	Moisture	
680-88811-1MS	Matrix Spike	T	Solid	Moisture	
680-88811-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88811-2	CV0509JJ-CS	T	Solid	Moisture	
680-88811-4	CV0509LL-CS	T	Solid	Moisture	
680-88811-5	CV0509MM-CS	T	Solid	Moisture	
680-88811-7	CV0509AP-GS	T	Solid	Moisture	
680-88811-8	CV0283A-CS	T	Solid	Moisture	
680-88811-15	CV0013C-CS	T	Solid	Moisture	
680-88811-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-135964</b>					
680-88811-10	CV0283B-CSD	T	Solid	Moisture	
680-88811-12	CV0284A-CS	T	Solid	Moisture	
680-88811-13	CV0013A-CS	T	Solid	Moisture	
680-88811-17	CV0013D-CS	T	Solid	Moisture	
680-88811-20	CV1036A-CS	T	Solid	Moisture	
680-88811-A-44 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-44 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88811-A-62 MS	Matrix Spike	T	Solid	Moisture	
680-88811-A-62 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-135977</b>					
680-88811-3	CV0509KK-CS	T	Solid	Moisture	
680-88811-6	CV0509AO-GS	T	Solid	Moisture	
680-88811-9	CV0283B-CS	T	Solid	Moisture	
680-88811-11	CV0283C-CS	T	Solid	Moisture	
680-88811-14	CV0013B-CS	T	Solid	Moisture	
680-88811-16	CV0013C-CSD	T	Solid	Moisture	
680-88811-18	CV0013E-CS	T	Solid	Moisture	
680-88811-19	CV0013AB-GS	T	Solid	Moisture	

**Report Basis**

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Instrument ID: BSMA5973 Analysis Batch Number: 136269

Lab Sample ID: IC 660-136269/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/13 11:04 Lab File ID: 1AD09005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.47	Baseline Event	cantins	04/09/13 12:30
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/13 11:19 Lab File ID: 1AD09006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	04/09/13 12:31

Lab Sample ID: IC 660-136269/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/09/13 12:03 Lab File ID: 1AD09009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	7.44	Baseline Event	cantins	04/09/13 12:32

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/5 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136171Lab Sample ID: CCVIS 660-136171/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/05/13 12:15 Lab File ID: 1CD05004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/05/13 12:33

Lab Sample ID: LCS 660-136104/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/05/13 21:13 Lab File ID: 1CD05033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 13:39

Lab Sample ID: 680-88811-1 Client Sample ID: CV0509II-CSDate Analyzed: 04/05/13 22:45 Lab File ID: 1CD05038.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 13:45
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/09/13 13:45
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 13:46
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/09/13 13:46

Lab Sample ID: 680-88811-1 MS Client Sample ID: CV0509II-CS MSDate Analyzed: 04/05/13 23:04 Lab File ID: 1CD05039.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 13:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: 680-88811-1 MSD Client Sample ID: CV0509II-CS MSD

Date Analyzed: 04/05/13 23:22 Lab File ID: 1CD05040.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 13:47

Lab Sample ID: 680-88811-2 Client Sample ID: CV0509JJ-CS

Date Analyzed: 04/05/13 23:40 Lab File ID: 1CD05041.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 15:58
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 15:59
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 15:59

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136263Lab Sample ID: CCVIS 660-136263/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/09/13 11:47 Lab File ID: 1CD09003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 12:08

Lab Sample ID: 680-88811-3 Client Sample ID: CV0509KK-CSDate Analyzed: 04/09/13 13:23 Lab File ID: 1CD09008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Analyte Misidentified by the Data System	cantins	04/09/13 16:44
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/09/13 16:45

Lab Sample ID: 680-88811-13 Client Sample ID: CV0013A-CSDate Analyzed: 04/09/13 13:41 Lab File ID: 1CD09009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	cantins	04/09/13 16:45
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:45
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 16:46

Lab Sample ID: 680-88811-14 Client Sample ID: CV0013B-CSDate Analyzed: 04/09/13 14:00 Lab File ID: 1CD09010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 16:47
Dibenz(a,h)anthracene	9.96	Baseline Event	cantins	04/09/13 16:47



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136263Lab Sample ID: 680-88811-15 Client Sample ID: CV0013C-CSDate Analyzed: 04/09/13 14:18 Lab File ID: 1CD09011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/09/13 16:48

Lab Sample ID: 680-88811-16 Client Sample ID: CV0013C-CSDDate Analyzed: 04/09/13 14:36 Lab File ID: 1CD09012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	cantins	04/10/13 11:26
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/10/13 11:26
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/10/13 11:27

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136271Lab Sample ID: CCVIS 660-136271/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/08/13 12:56 Lab File ID: 1CD08003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/08/13 13:30

Lab Sample ID: LCS 660-136127/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/08/13 14:04 Lab File ID: 1CD08006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:02

Lab Sample ID: 680-88811-A-22-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 04/08/13 14:40 Lab File ID: 1CD08008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:04

Lab Sample ID: 680-88811-A-22-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 04/08/13 14:59 Lab File ID: 1CD08009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	perrint	04/09/13 14:04

Lab Sample ID: 680-88811-17 Client Sample ID: CV0013D-CSDate Analyzed: 04/08/13 15:17 Lab File ID: 1CD08010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	perrint	04/09/13 14:05
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:06
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:05

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136271Lab Sample ID: 680-88811-18 Client Sample ID: CV0013E-CSDate Analyzed: 04/08/13 15:35 Lab File ID: 1CD08011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	perrint	04/09/13 14:08
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:08
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:09

Lab Sample ID: 680-88811-19 Client Sample ID: CV0013AB-GSDate Analyzed: 04/08/13 15:54 Lab File ID: 1CD08012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.48	Split Peak	perrint	04/09/13 14:09
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:10
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:10

Lab Sample ID: 680-88811-20 Client Sample ID: CV1036A-CSDate Analyzed: 04/08/13 16:12 Lab File ID: 1CD08013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	perrint	04/09/13 14:11
Benzo[k]fluoranthene	8.50	Split Peak	perrint	04/09/13 14:11
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	perrint	04/09/13 14:12

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136271Lab Sample ID: 680-88811-4 Client Sample ID: CV0509LL-CSDate Analyzed: 04/08/13 20:46 Lab File ID: 1CD08028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 16:01
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:01
Dibenz(a,h)anthracene	9.96	Baseline Event	cantins	04/09/13 16:01
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 16:02

Lab Sample ID: 680-88811-5 Client Sample ID: CV0509MM-CSDate Analyzed: 04/08/13 21:05 Lab File ID: 1CD08029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 16:02
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:02
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 16:03

Lab Sample ID: 680-88811-6 Client Sample ID: CV0509AO-GSDate Analyzed: 04/08/13 21:23 Lab File ID: 1CD08030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	9.97	Baseline Event	cantins	04/09/13 16:06

Lab Sample ID: 680-88811-7 Client Sample ID: CV0509AP-GSDate Analyzed: 04/08/13 21:41 Lab File ID: 1CD08031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 16:07

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136271Lab Sample ID: 680-88811-8 Client Sample ID: CV0283A-CSDate Analyzed: 04/08/13 22:00 Lab File ID: 1CD08032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Baseline Event	cantins	04/09/13 16:09
Dibenz(a,h)anthracene	9.97	Baseline Event	cantins	04/09/13 16:08

Lab Sample ID: 680-88811-9 Client Sample ID: CV0283B-CSDate Analyzed: 04/08/13 22:18 Lab File ID: 1CD08033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.50	Analyte Misidentified by the Data System	cantins	04/09/13 16:19
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 16:20
Benzo[g,h,i]perylene	10.30	Baseline Event	cantins	04/09/13 16:19

Lab Sample ID: 680-88811-10 Client Sample ID: CV0283B-CSDDate Analyzed: 04/08/13 22:36 Lab File ID: 1CD08034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 16:20
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:21
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 16:21
Dibenz(a,h)anthracene	9.96	Baseline Event	cantins	04/09/13 16:21

Lab Sample ID: 680-88811-11 Client Sample ID: CV0283C-CSDate Analyzed: 04/08/13 22:55 Lab File ID: 1CD08035.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 16:22
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:22
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/09/13 16:22

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Analysis Batch Number: 136271Lab Sample ID: 680-88811-12 Client Sample ID: CV0284A-CSDate Analyzed: 04/08/13 23:13 Lab File ID: 1CD08036.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.49	Split Peak	cantins	04/09/13 16:23
Benzo[k]fluoranthene	8.50	Baseline Event	cantins	04/09/13 16:23
Indeno[1,2,3-cd]pyrene	9.95	Split Peak	cantins	04/09/13 16:24
Dibenz(a,h)anthracene	9.97	Baseline Event	cantins	04/09/13 16:24
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/09/13 16:24

# Method 8270C Low Level

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



FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-88811-1

SDG No.: 68088811-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0509II-CS	680-88811-1	100
CV0509JJ-CS	680-88811-2	76
CV0509KK-CS	680-88811-3	79
CV0509LL-CS	680-88811-4	51
CV0509MM-CS	680-88811-5	65
CV0509AO-GS	680-88811-6	97
CV0509AP-GS	680-88811-7	81
CV0283A-CS	680-88811-8	87
CV0283B-CS	680-88811-9	84
CV0283B-CSD	680-88811-10	90
CV0283C-CS	680-88811-11	78
CV0284A-CS	680-88811-12	85
CV0013A-CS	680-88811-13	48
CV0013B-CS	680-88811-14	52
CV0013C-CS	680-88811-15	99
CV0013C-CSD	680-88811-16	83
CV0013D-CS	680-88811-17	77
CV0013E-CS	680-88811-18	77
CV0013AB-GS	680-88811-19	76
CV1036A-CS	680-88811-20	74
	MB 660-136104/1-A	74
	MB 660-136127/1-A	94
	LCS 660-136104/2-A	73
	LCS 660-136127/2-A	78
	680-88811-A-22-B MS	75
	680-88811-A-22-B MS DL	65
CV0509II-CS MS	680-88811-1 MS	92
	680-88811-A-22-C MSD	74
	680-88811-A-22-C MSD DL	61
CV0509II-CS MSD	680-88811-1 MSD	78

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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD05033.D  
 Lab ID: LCS 660-136104/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	484	74	39-130	
Acenaphthylene	656	476	73	38-130	
Anthracene	656	465	71	37-130	
Benzo[a]anthracene	656	525	80	40-130	
Benzo[a]pyrene	656	461	70	49-130	
Benzo[b]fluoranthene	656	447	68	37-130	
Benzo[g,h,i]perylene	656	418	64	32-130	
Benzo[k]fluoranthene	656	532	81	32-130	
Chrysene	656	492	75	41-130	
Dibenz(a,h)anthracene	656	492	75	27-130	
Fluoranthene	656	478	73	40-130	
Fluorene	656	469	72	40-130	
Indeno[1,2,3-cd]pyrene	656	389	59	30-130	
1-Methylnaphthalene	656	518	79	31-130	
2-Methylnaphthalene	656	480	73	33-130	
Naphthalene	656	461	70	36-130	
Phenanthrene	656	490	75	42-130	
Pyrene	656	549	84	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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD08006.D  
 Lab ID: LCS 660-136127/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	662	491	74	39-130	
Acenaphthylene	662	536	81	38-130	
Anthracene	662	522	79	37-130	
Benzo[a]anthracene	662	520	79	40-130	
Benzo[a]pyrene	662	470	71	49-130	
Benzo[b]fluoranthene	662	532	80	37-130	
Benzo[g,h,i]perylene	662	514	78	32-130	
Benzo[k]fluoranthene	662	533	81	32-130	
Chrysene	662	502	76	41-130	
Dibenz(a,h)anthracene	662	593	90	27-130	
Fluoranthene	662	512	77	40-130	
Fluorene	662	537	81	40-130	
Indeno[1,2,3-cd]pyrene	662	509	77	30-130	
1-Methylnaphthalene	662	579	88	31-130	
2-Methylnaphthalene	662	486	73	33-130	
Naphthalene	662	499	75	36-130	
Phenanthrene	662	525	79	42-130	
Pyrene	662	515	78	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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD08008.D  
 Lab ID: 680-88811-A-22-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1070	150 J	954	75	39-130	
Acenaphthylene	1070	120	864	70	38-130	
Anthracene	1070	2100	1320	-72	37-130	F
Benzo[a]anthracene	1070	4800	2210	-242	40-130	4
Benzo[a]pyrene	1070	4200	1920	-215	49-130	F
Benzo[g,h,i]perylene	1070	2900	1420	-139	32-130	F
Benzo[k]fluoranthene	1070	2200	1520	-68	32-130	F
Chrysene	1070	4800	2050	-256	41-130	4
Dibenz(a,h)anthracene	1070	940	945	0.9	27-130	F
Fluorene	1070	250	1030	73	40-130	
Indeno[1,2,3-cd]pyrene	1070	2700	1530	-106	30-130	F
1-Methylnaphthalene	1070	170	1090	87	31-130	
2-Methylnaphthalene	1070	170	1190	96	33-130	
Naphthalene	1070	260	1190	88	36-130	
Phenanthrene	1070	4500	3360	-106	42-130	4

# 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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1AD09014.D  
 Lab ID: 680-88811-A-22-B MS DL Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Benzo[b]fluoranthene	1070	5200	2840	-217	37-130	4
Fluoranthene	1070	7300	3780	-334	40-130	4
Pyrene	1070	6000	3530	-236	44-130	4

# 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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD05039.D  
 Lab ID: 680-88811-1 MS Client ID: CV0509II-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1120	670 U	792	71	39-130	
Acenaphthylene	1120	69 J	814	67	38-130	
Anthracene	1120	320	911	53	37-130	
Benzo[a]anthracene	1120	1200	1250	6	40-130	F
Benzo[a]pyrene	1120	860	1020	15	49-130	F
Benzo[b]fluoranthene	1120	1100	1200	5	37-130	F
Benzo[g,h,i]perylene	1120	620	964	31	32-130	F
Benzo[k]fluoranthene	1120	880	1150	24	32-130	F
Chrysene	1120	1000	1170	15	41-130	F
Dibenz(a,h)anthracene	1120	200	789	53	27-130	
Fluoranthene	1120	2200	1380	-77	40-130	F
Fluorene	1120	120 J	824	63	40-130	
Indeno[1,2,3-cd]pyrene	1120	520	884	32	30-130	
1-Methylnaphthalene	1120	160 J	966	73	31-130	
2-Methylnaphthalene	1120	230 J	998	69	33-130	
Naphthalene	1120	180 J	1040	77	36-130	
Phenanthrene	1120	1700	1170	-47	42-130	F
Pyrene	1120	1900	1380	-44	44-130	F

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD08009.D  
 Lab ID: 680-88811-A-22-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1070	786	60	19	40	39-130	
Acenaphthylene	1070	755	60	14	40	38-130	
Anthracene	1070	1090	-93	19	40	37-130	F
Benzo[a]anthracene	1070	1890	-272	16	40	40-130	4
Benzo[a]pyrene	1070	1620	-243	17	40	49-130	F
Benzo[g,h,i]perylene	1070	1240	-155	13	40	32-130	F
Benzo[k]fluoranthene	1070	1310	-87	15	40	32-130	F
Chrysene	1070	1840	-276	11	40	41-130	4
Dibenz(a,h)anthracene	1070	941	0.6	0	40	27-130	F
Fluorene	1070	827	54	22	40	40-130	
Indeno[1,2,3-cd]pyrene	1070	1340	-124	13	40	30-130	F
1-Methylnaphthalene	1070	829	62	27	40	31-130	
2-Methylnaphthalene	1070	779	57	42	40	33-130	F
Naphthalene	1070	785	50	41	40	36-130	F
Phenanthrene	1070	2480	-189	30	40	42-130	4

# 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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1AD09015.D  
 Lab ID: 680-88811-A-22-C MSD DL Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Benzo[b]fluoranthene	1070	2510	-248	12	40	37-130	4
Fluoranthene	1070	2770	-429	31	40	40-130	4
Pyrene	1070	2820	-302	22	40	44-130	4

# 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.: 680-88811-1  
 SDG No.: 68088811-1  
 Matrix: Solid Level: Low Lab File ID: 1CD05040.D  
 Lab ID: 680-88811-1 MSD Client ID: CV0509II-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1120	705	63	12	40	39-130	
Acenaphthylene	1120	766	62	6	40	38-130	
Anthracene	1120	721	36	23	40	37-130	F
Benzo[a]anthracene	1120	1120	-5	11	40	40-130	F
Benzo[a]pyrene	1120	911	5	11	40	49-130	F
Benzo[b]fluoranthene	1120	1250	9	4	40	37-130	F
Benzo[g,h,i]perylene	1120	869	22	10	40	32-130	F
Benzo[k]fluoranthene	1120	849	-3	30	40	32-130	F
Chrysene	1120	1010	1	14	40	41-130	F
Dibenz(a,h)anthracene	1120	759	50	4	40	27-130	
Fluoranthene	1120	1330	-82	4	40	40-130	F
Fluorene	1120	676	50	20	40	40-130	
Indeno[1,2,3-cd]pyrene	1120	771	22	14	40	30-130	F
1-Methylnaphthalene	1120	839	61	14	40	31-130	
2-Methylnaphthalene	1120	896	60	11	40	33-130	
Naphthalene	1120	765	52	31	40	36-130	
Phenanthrene	1120	1080	-54	7	40	42-130	F
Pyrene	1120	1270	-55	9	40	44-130	F

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD05032.D Lab Sample ID: MB 660-136104/1-A  
 Matrix: Solid Date Extracted: 04/04/2013 10:07  
 Instrument ID: BSMC5973 Date Analyzed: 04/05/2013 20:55  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136104/2-A	1CD05033.D	04/05/2013 21:13
CV0509II-CS	680-88811-1	1CD05038.D	04/05/2013 22:45
CV0509II-CS MS	680-88811-1 MS	1CD05039.D	04/05/2013 23:04
CV0509II-CS MSD	680-88811-1 MSD	1CD05040.D	04/05/2013 23:22
CV0509JJ-CS	680-88811-2	1CD05041.D	04/05/2013 23:40
CV0509LL-CS	680-88811-4	1CD08028.D	04/08/2013 20:46
CV0509MM-CS	680-88811-5	1CD08029.D	04/08/2013 21:05
CV0509AO-GS	680-88811-6	1CD08030.D	04/08/2013 21:23
CV0509AP-GS	680-88811-7	1CD08031.D	04/08/2013 21:41
CV0283A-CS	680-88811-8	1CD08032.D	04/08/2013 22:00
CV0283B-CS	680-88811-9	1CD08033.D	04/08/2013 22:18
CV0283B-CSD	680-88811-10	1CD08034.D	04/08/2013 22:36
CV0283C-CS	680-88811-11	1CD08035.D	04/08/2013 22:55
CV0284A-CS	680-88811-12	1CD08036.D	04/08/2013 23:13
CV0509KK-CS	680-88811-3	1CD09008.D	04/09/2013 13:23
CV0013A-CS	680-88811-13	1CD09009.D	04/09/2013 13:41
CV0013B-CS	680-88811-14	1CD09010.D	04/09/2013 14:00
CV0013C-CS	680-88811-15	1CD09011.D	04/09/2013 14:18
CV0013C-CSD	680-88811-16	1CD09012.D	04/09/2013 14:36

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD08005.D Lab Sample ID: MB 660-136127/1-A  
 Matrix: Solid Date Extracted: 04/04/2013 13:28  
 Instrument ID: BSMC5973 Date Analyzed: 04/08/2013 13:45  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136127/2-A	1CD08006.D	04/08/2013 14:04
	680-88811-A-22-B MS	1CD08008.D	04/08/2013 14:40
	680-88811-A-22-C MSD	1CD08009.D	04/08/2013 14:59
CV0013D-CS	680-88811-17	1CD08010.D	04/08/2013 15:17
CV0013E-CS	680-88811-18	1CD08011.D	04/08/2013 15:35
CV0013AB-GS	680-88811-19	1CD08012.D	04/08/2013 15:54
CV1036A-CS	680-88811-20	1CD08013.D	04/08/2013 16:12
	680-88811-A-22-B MS DL	1AD09014.D	04/09/2013 15:50
	680-88811-A-22-C MSD DL	1AD09015.D	04/09/2013 16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1AD09002.D DFTPP Injection Date: 04/09/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 10:18  
 Analysis Batch No.: 136269

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	22.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	24.1
70	Less than 2.0 % of mass 69	0.2 (0.9)1
127	10.0 - 80.0 % of mass 198	36.0
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	5.9
275	10.0 - 60.0 % of mass 198	23.4
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	11.1
442	Greater than 50.0 % of mass 198	81.3
443	15.0 - 24.0 % of mass 442	16.7 (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
	ICIS 660-136269/3	1AD09003.D	04/09/2013	10:31
	IC 660-136269/4	1AD09004.D	04/09/2013	10:48
	IC 660-136269/5	1AD09005.D	04/09/2013	11:04
	IC 660-136269/6	1AD09006.D	04/09/2013	11:19
	IC 660-136269/7	1AD09007.D	04/09/2013	11:33
	IC 660-136269/8	1AD09008.D	04/09/2013	11:49
	IC 660-136269/9	1AD09009.D	04/09/2013	12:03
	ICV 660-136269/12	1AD09012.D	04/09/2013	13:51
	680-88811-A-22-B MS DL	1AD09014.D	04/09/2013	15:50
	680-88811-A-22-C MSD DL	1AD09015.D	04/09/2013	16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:31  
 Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.9
68	Less than 2.0 % of mass 69	0.8 (1.6)1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.9)1
127	10.0 - 80.0 % of mass 198	42.2
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	7.6
275	10.0 - 60.0 % of mass 198	21.5
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	10.2
442	Greater than 50.0 % of mass 198	56.7
443	15.0 - 24.0 % of mass 442	11.0 (19.4)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD05003.D DFTPP Injection Date: 04/05/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:57  
 Analysis Batch No.: 136171

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	41.6
68	Less than 2.0 % of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.3
70	Less than 2.0 % of mass 69	0.3 (0.6) 1
127	10.0 - 80.0 % of mass 198	49.0
197	Less than 2.0 % of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.7
275	10.0 - 60.0 % of mass 198	19.3
365	Greater than 1.0 % of mass 198	3.0
441	Present but less than mass 443	7.6
442	Greater than 50.0 % of mass 198	55.6
443	15.0 - 24.0 % of mass 442	11.7 (21.0) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136171/4	1CD05004.D	04/05/2013	12:15
	MB 660-136104/1-A	1CD05032.D	04/05/2013	20:55
	LCS 660-136104/2-A	1CD05033.D	04/05/2013	21:13
CV0509II-CS	680-88811-1	1CD05038.D	04/05/2013	22:45
CV0509II-CS MS	680-88811-1 MS	1CD05039.D	04/05/2013	23:04
CV0509II-CS MSD	680-88811-1 MSD	1CD05040.D	04/05/2013	23:22
CV0509JJ-CS	680-88811-2	1CD05041.D	04/05/2013	23:40

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD08002.D DFTPP Injection Date: 04/08/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 12:39  
 Analysis Batch No.: 136271

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	36.2
68	Less than 2.0 % of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	50.7
70	Less than 2.0 % of mass 69	0.2 (0.4)1
127	10.0 - 80.0 % of mass 198	49.8
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.9
275	10.0 - 60.0 % of mass 198	19.3
365	Greater than 1.0 % of mass 198	4.9
441	Present but less than mass 443	7.4
442	Greater than 50.0 % of mass 198	52.2
443	15.0 - 24.0 % of mass 442	9.1 (17.3)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 660-136271/3	1CD08003.D	04/08/2013	12:56
	MB 660-136127/1-A	1CD08005.D	04/08/2013	13:45
	LCS 660-136127/2-A	1CD08006.D	04/08/2013	14:04
	680-88811-A-22-B MS	1CD08008.D	04/08/2013	14:40
	680-88811-A-22-C MSD	1CD08009.D	04/08/2013	14:59
CV0013D-CS	680-88811-17	1CD08010.D	04/08/2013	15:17
CV0013E-CS	680-88811-18	1CD08011.D	04/08/2013	15:35
CV0013AB-GS	680-88811-19	1CD08012.D	04/08/2013	15:54
CV1036A-CS	680-88811-20	1CD08013.D	04/08/2013	16:12
CV0509LL-CS	680-88811-4	1CD08028.D	04/08/2013	20:46
CV0509MM-CS	680-88811-5	1CD08029.D	04/08/2013	21:05
CV0509AO-GS	680-88811-6	1CD08030.D	04/08/2013	21:23
CV0509AP-GS	680-88811-7	1CD08031.D	04/08/2013	21:41
CV0283A-CS	680-88811-8	1CD08032.D	04/08/2013	22:00
CV0283B-CS	680-88811-9	1CD08033.D	04/08/2013	22:18
CV0283B-CSD	680-88811-10	1CD08034.D	04/08/2013	22:36
CV0283C-CS	680-88811-11	1CD08035.D	04/08/2013	22:55
CV0284A-CS	680-88811-12	1CD08036.D	04/08/2013	23:13

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab File ID: 1CD09002.D DFTPP Injection Date: 04/09/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:31  
 Analysis Batch No.: 136263

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	37.7
68	Less than 2.0 % of mass 69	0.6 (1.2)1
69	Mass 69 relative abundance	49.2
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	44.8
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.5
275	10.0 - 60.0 % of mass 198	19.1
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	12.1
442	Greater than 50.0 % of mass 198	81.3
443	15.0 - 24.0 % of mass 442	18.0 (22.1)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 660-136263/3	1CD09003.D	04/09/2013	11:47
CV0509KK-CS	680-88811-3	1CD09008.D	04/09/2013	13:23
CV0013A-CS	680-88811-13	1CD09009.D	04/09/2013	13:41
CV0013B-CS	680-88811-14	1CD09010.D	04/09/2013	14:00
CV0013C-CS	680-88811-15	1CD09011.D	04/09/2013	14:18
CV0013C-CSD	680-88811-16	1CD09012.D	04/09/2013	14:36



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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2879

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1629167	2.59	861420	3.62	1542880	4.57
UPPER LIMIT	3258334	3.09	1722840	4.12	3085760	5.07
LOWER LIMIT	814584	2.09	430710	3.12	771440	4.07
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136269/12	1542771	2.59	886874	3.63	1631736	4.58
680-88811-A-22-B MS DL	1563317	2.59	838392	3.62	1463709	4.57
680-88811-A-22-C MSD DL	1722885	2.59	941394	3.62	1578292	4.58

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

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: ICIS 660-136269/3 Date Analyzed: 04/09/2013 10:31  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AD09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2879

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	1527423	6.60	1682694	7.68		
UPPER LIMIT	3054846	7.10	3365388	8.18		
LOWER LIMIT	763712	6.10	841347	7.18		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136269/12		1541115	6.60	1781032	7.69	
680-88811-A-22-B MS DL		1353057	6.59	1321286	7.68	
680-88811-A-22-C MSD DL		1441092	6.60	1423613	7.67	

CRY = Chrysene-d12  
 PRY = Perylene-d12

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	501011	3.71	361349	4.80	702974	5.75
UPPER LIMIT	1002022	4.21	722698	5.30	1405948	6.25
LOWER LIMIT	250506	3.21	180675	4.30	351487	5.25
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136048/12	649122	3.71	500935	4.80	955391	5.75

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

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	875378	7.69	942955	8.86		
UPPER LIMIT	1750756	8.19	1885910	9.36		
LOWER LIMIT	437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136048/12	1249690	7.69	1306409	8.86		

CRY = Chrysene-d12  
 PRY = Perylene-d12

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	392528	3.69	289150	4.78	539578	5.72	
UPPER LIMIT	785056	4.19	578300	5.28	1079156	6.22	
LOWER LIMIT	196264	3.19	144575	4.28	269789	5.22	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136104/1-A		590353	3.69	446558	4.78	864942	5.72
LCS 660-136104/2-A		530869	3.69	398228	4.78	807075	5.72
680-88811-1	CV0509II-CS	548276	3.69	422834	4.78	786862	5.72
680-88811-1 MS	CV0509II-CS MS	535106	3.69	419924	4.78	763930	5.72
680-88811-1 MSD	CV0509II-CS MSD	614948	3.69	473107	4.78	888143	5.72
680-88811-2	CV0509JJ-CS	581559	3.69	439659	4.78	797354	5.72

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

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	739705	7.66	746693	8.83		
UPPER LIMIT	1479410	8.16	1493386	9.33		
LOWER LIMIT	369853	7.16	373347	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136104/1-A		885941	7.66	848008	8.83	
LCS 660-136104/2-A		890990	7.66	828383	8.82	
680-88811-1	CV0509II-CS	861292	7.66	809416	8.83	
680-88811-1 MS	CV0509II-CS MS	852808	7.66	826433	8.82	
680-88811-1 MSD	CV0509II-CS MSD	968869	7.66	918949	8.83	
680-88811-2	CV0509JJ-CS	876722	7.66	847427	8.82	

CRY = Chrysene-d12  
 PRY = Perylene-d12

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136271/3 Date Analyzed: 04/08/2013 12:56  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD08003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	417933	3.69	297412	4.77	556083	5.72		
UPPER LIMIT	835866	4.19	594824	5.27	1112166	6.22		
LOWER LIMIT	208967	3.19	148706	4.27	278042	5.22		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 660-136127/1-A			379190	3.69	267981	4.77	495949	5.73
LCS 660-136127/2-A			384820	3.69	277749	4.77	533413	5.72
680-88811-A-22-B MS			452854	3.69	340263	4.77	631160	5.72
680-88811-A-22-C MSD			492885	3.69	341978	4.77	638073	5.72
680-88811-17	CV0013D-CS		408762	3.69	299951	4.77	632697	5.72
680-88811-18	CV0013E-CS		419152	3.69	325020	4.77	616779	5.72
680-88811-19	CV0013AB-GS		415492	3.69	312330	4.77	615520	5.72
680-88811-20	CV1036A-CS		437886	3.69	327151	4.77	636478	5.72
680-88811-4	CV0509LL-CS		568842	3.69	412426	4.77	768707	5.72
680-88811-5	CV0509MM-CS		571965	3.69	410117	4.78	780710	5.72
680-88811-6	CV0509AO-GS		568162	3.69	415309	4.77	773987	5.72
680-88811-7	CV0509AP-GS		561378	3.69	415366	4.77	773763	5.72
680-88811-8	CV0283A-CS		590978	3.69	422350	4.77	822341	5.72
680-88811-9	CV0283B-CS		581977	3.69	417689	4.77	795652	5.72
680-88811-10	CV0283B-CSD		573756	3.69	434073	4.77	799308	5.72
680-88811-11	CV0283C-CS		566622	3.69	413096	4.77	768724	5.72
680-88811-12	CV0284A-CS		602314	3.69	427449	4.77	789415	5.72

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

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136271/3 Date Analyzed: 04/08/2013 12:56  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD08003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	686748	7.66	698341	8.82		
UPPER LIMIT	1373496	8.16	1396682	9.32		
LOWER LIMIT	343374	7.16	349171	8.32		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136127/1-A		592625	7.66	592462	8.84	
LCS 660-136127/2-A		671425	7.66	658877	8.82	
680-88811-A-22-B MS		764686	7.66	716189	8.82	
680-88811-A-22-C MSD		754689	7.66	709916	8.82	
680-88811-17	CV0013D-CS	701647	7.66	674169	8.82	
680-88811-18	CV0013E-CS	693399	7.66	644230	8.82	
680-88811-19	CV0013AB-GS	691116	7.66	640619	8.82	
680-88811-20	CV1036A-CS	678377	7.66	631037	8.82	
680-88811-4	CV0509LL-CS	800642	7.66	752643	8.83	
680-88811-5	CV0509MM-CS	797098	7.66	773361	8.83	
680-88811-6	CV0509AO-GS	763917	7.66	696010	8.82	
680-88811-7	CV0509AP-GS	767020	7.66	710351	8.83	
680-88811-8	CV0283A-CS	784903	7.66	754063	8.83	
680-88811-9	CV0283B-CS	785055	7.66	733104	8.83	
680-88811-10	CV0283B-CSD	794094	7.66	762312	8.82	
680-88811-11	CV0283C-CS	799043	7.66	730596	8.83	
680-88811-12	CV0284A-CS	811948	7.66	737413	8.82	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	357710	3.69	263195	4.77	531432	5.72		
UPPER LIMIT	715420	4.19	526390	5.27	1062864	6.22		
LOWER LIMIT	178855	3.19	131598	4.27	265716	5.22		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-88811-3	CV0509KK-CS		357070	3.69	269791	4.77	513920	5.72
680-88811-13	CV0013A-CS		583062	3.69	458879	4.77	876147	5.72
680-88811-14	CV0013B-CS		486485	3.69	359616	4.77	707125	5.72
680-88811-15	CV0013C-CS		615436	3.69	461034	4.77	883298	5.72
680-88811-16	CV0013C-CSD		487907	3.69	363780	4.77	697358	5.72

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Sample No.: CCVIS 660-136263/3 Date Analyzed: 04/09/2013 11:47  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	649492	7.66	642611	8.83		
UPPER LIMIT	1298984	8.16	1285222	9.33		
LOWER LIMIT	324746	7.16	321306	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88811-3	CV0509KK-CS		595358	7.65	571336	8.82
680-88811-13	CV0013A-CS		983321	7.66	943965	8.82
680-88811-14	CV0013B-CS		783890	7.65	728066	8.82
680-88811-15	CV0013C-CS		985291	7.66	942862	8.82
680-88811-16	CV0013C-CSD		807883	7.65	752287	8.82

CRY = Chrysene-d12  
 PRY = Perylene-d12

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

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509II-CS Lab Sample ID: 680-88811-1  
 Matrix: Solid Lab File ID: 1CD05038.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:25  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/05/2013 22:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 40.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	670	U	670	130
208-96-8	Acenaphthylene	69	J	270	34
120-12-7	Anthracene	320	F	56	28
56-55-3	Benzo[a]anthracene	1200	F	54	26
50-32-8	Benzo[a]pyrene	860	F	70	35
205-99-2	Benzo[b]fluoranthene	1100	F	82	41
191-24-2	Benzo[g,h,i]perylene	620	F	130	30
207-08-9	Benzo[k]fluoranthene	880	F	54	24
218-01-9	Chrysene	1000	F	60	30
53-70-3	Dibenz(a,h)anthracene	200		130	27
206-44-0	Fluoranthene	2200	F	130	27
86-73-7	Fluorene	120	J	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	520	F	130	48
90-12-0	1-Methylnaphthalene	160	J	270	30
91-57-6	2-Methylnaphthalene	230	J	270	48
91-20-3	Naphthalene	180	J	270	30
85-01-8	Phenanthrene	1700	F	54	26
129-00-0	Pyrene	1900	F	130	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040513.b\1CD05038.D  
 Lab Smp Id: 680-88811-A-1-A Client Smp ID: CV0509II-CS  
 Inj Date : 05-APR-2013 22:45  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-a-1-a  
 Misc Info : 680-88811-A-1-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 37  
 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	15.130	Weight Extracted
M	40.860	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	548276	40.0000		
* 6 Acenaphthene-d10	164		4.780	4.780	(1.000)	422834	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	786862	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	22657	2.48947	1112.8779	
* 18 Chrysene-d12	240		7.657	7.662	(1.000)	861292	40.0000		
* 23 Perylene-d12	264		8.827	8.827	(1.000)	809416	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	5790	0.41115	183.7996(Q)	
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	4908	0.51199	228.8783	
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	3012	0.34919	156.1013	
5 Acenaphthylene	152		4.692	4.692	(0.982)	2703	0.15446	69.0474	
9 Fluorene	166		5.115	5.116	(1.070)	3779	0.26153	116.9142	
11 Phenanthrene	178		5.739	5.739	(1.003)	86780	3.78670	1692.7849	
12 Anthracene	178		5.774	5.774	(1.009)	16405	0.70616	315.6793	
13 Carbazole	167		5.880	5.880	(1.028)	8955	0.44993	201.1332	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	126923	5.01493	2241.8481
16 Pyrene	202	6.739	6.739	(0.880)	100329	4.20518	1879.8603
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	62420	2.63684	1178.7609
19 Chrysene	228	7.674	7.680	(1.002)	54977	2.24002	1001.3680
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	58611	2.56135	1145.0116(M)
21 Benzo(k)fluoranthene	252	8.492	8.509	(0.962)	43761	1.97728	883.9152(M)
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	41323	1.91810	857.4582
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.962	(1.127)	23836	1.16487	520.7360(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.980	(1.129)	8342	0.44132	197.2846
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.166)	28937	1.38558	619.4039(M)

QC Flag Legend

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

Data File: 1CD05038.D

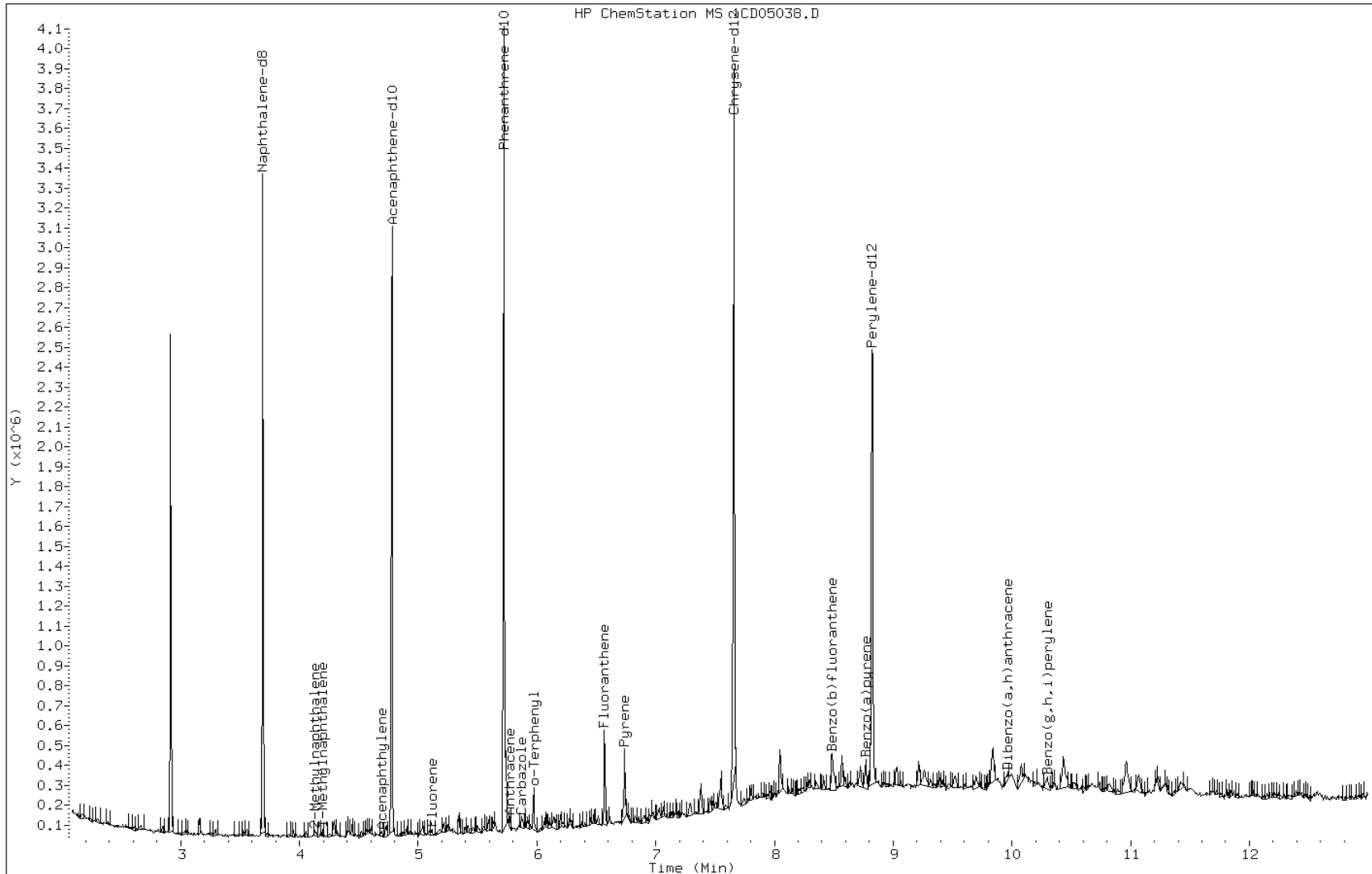
Date: 05-APR-2013 22:45

Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

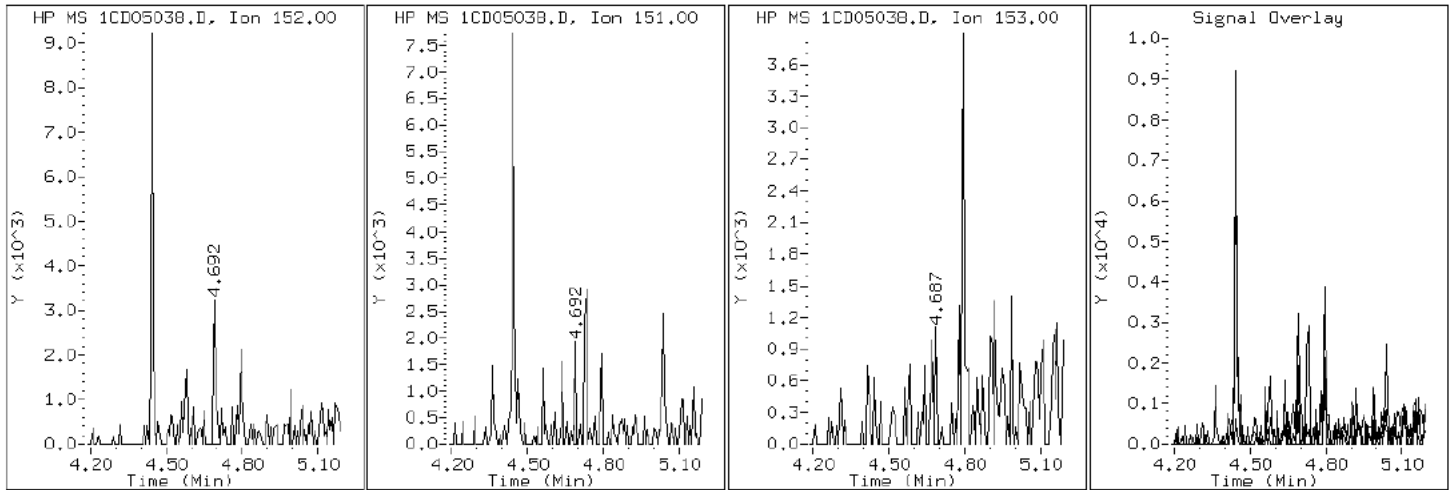
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

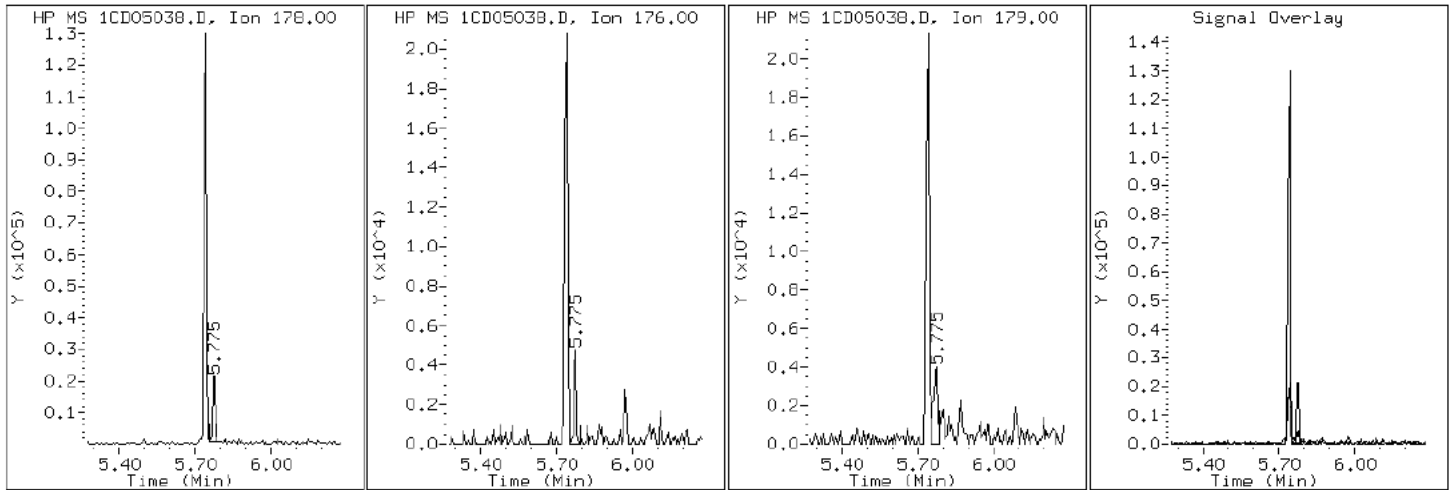
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

12 Anthracene





Data File: 1CD05038.D

Date: 05-APR-2013 22:45

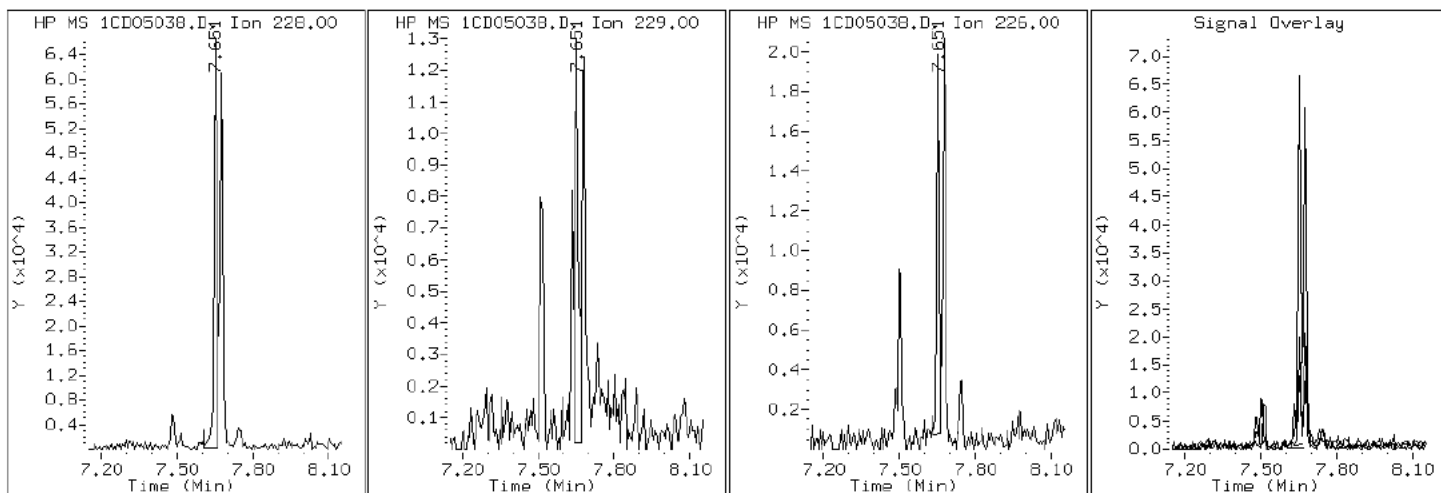
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

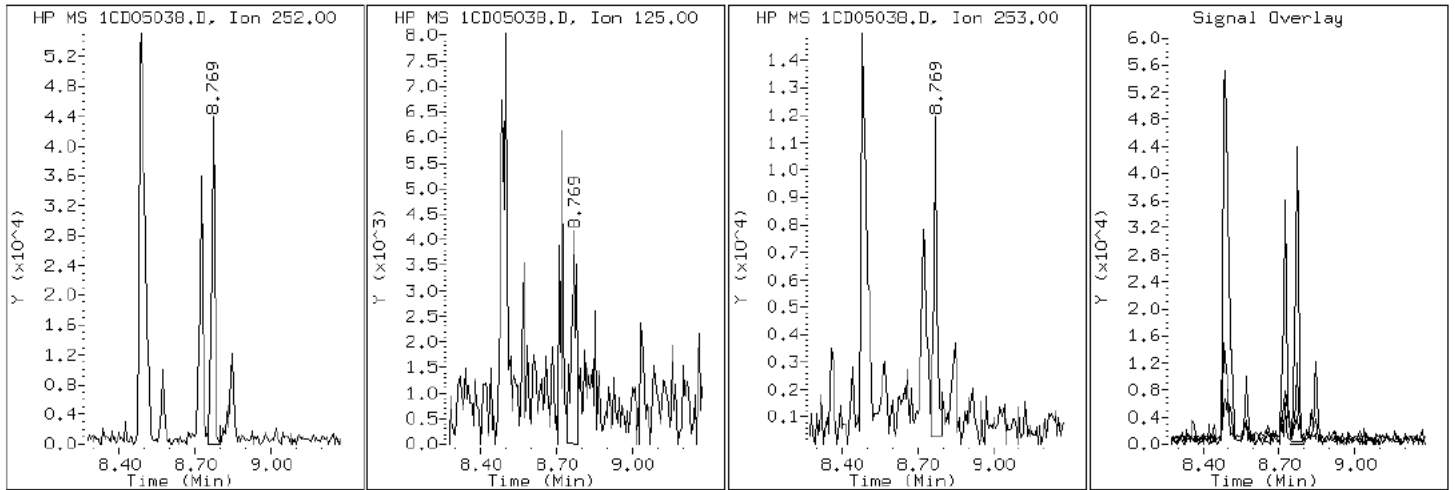
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

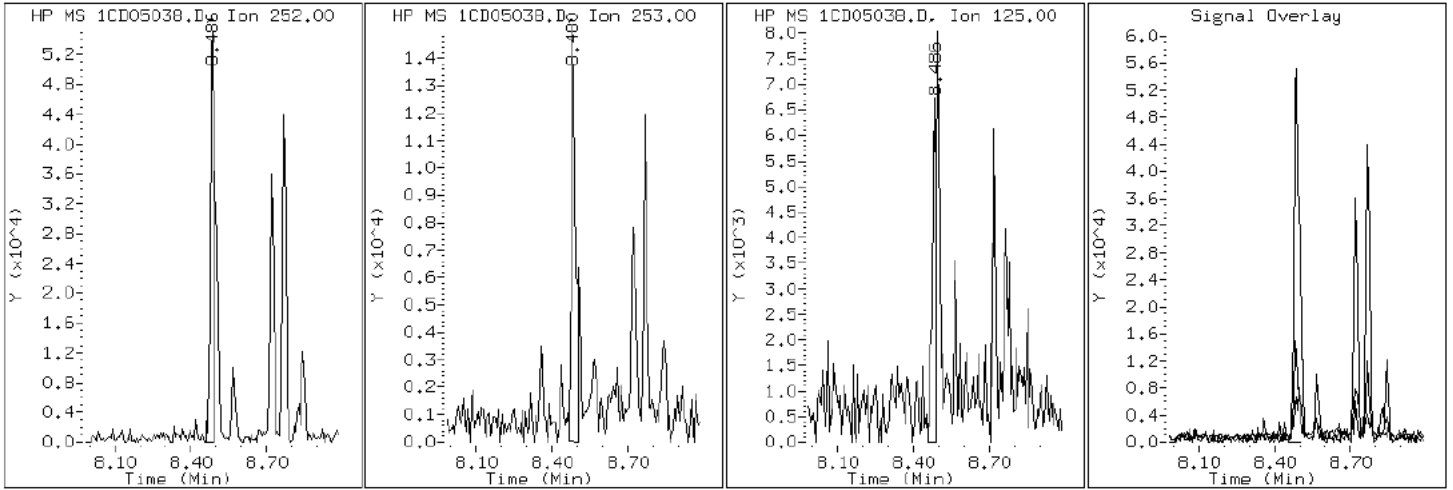
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

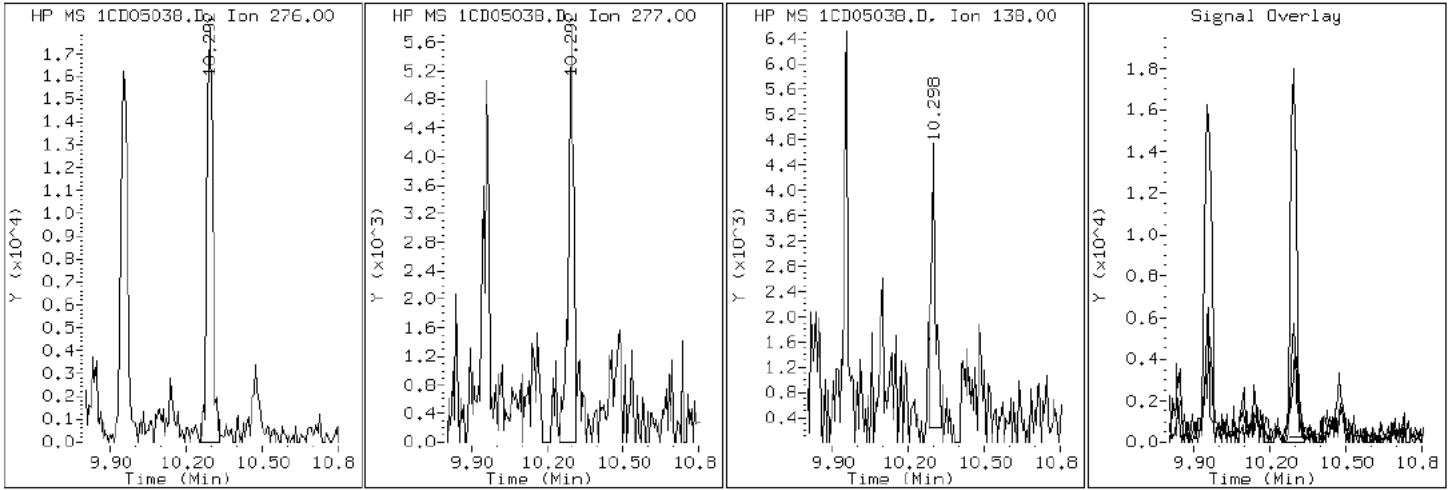
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

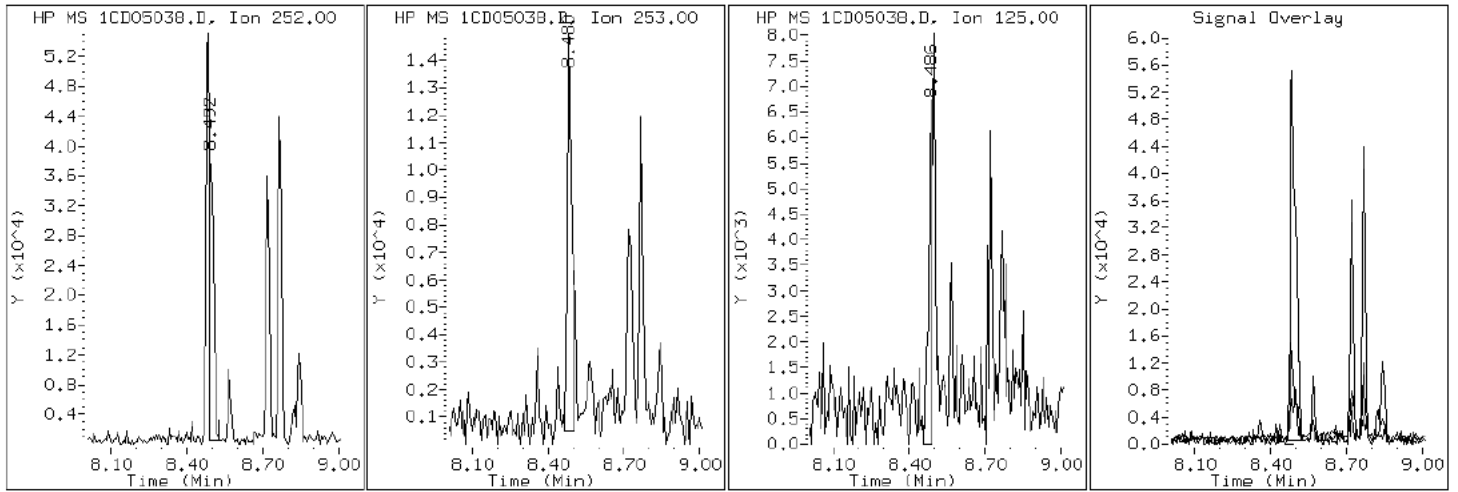
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

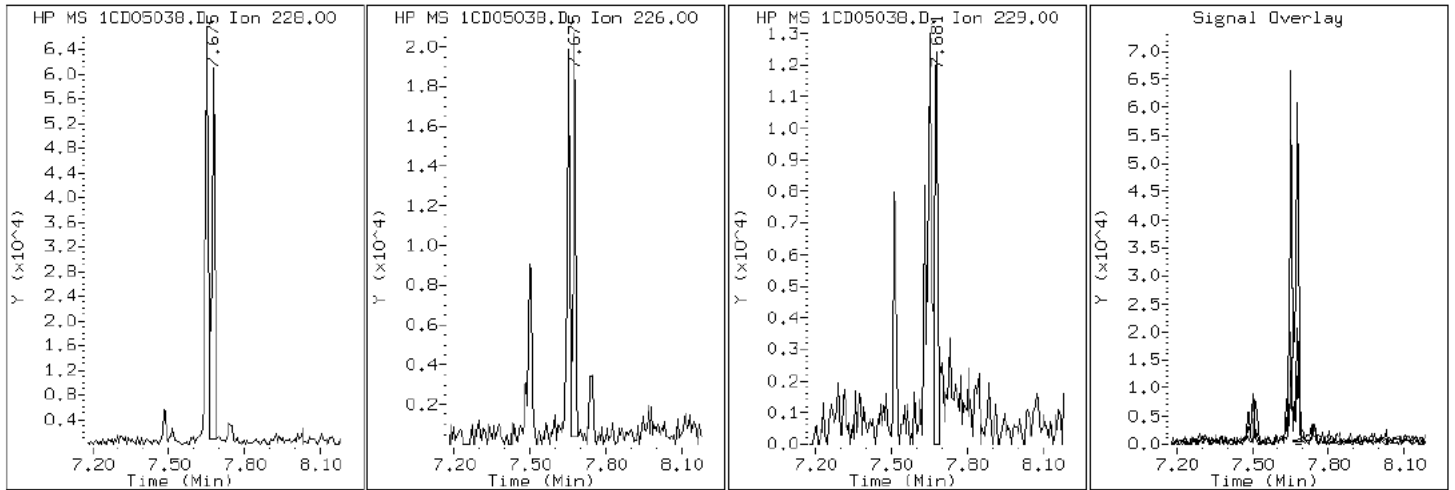
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

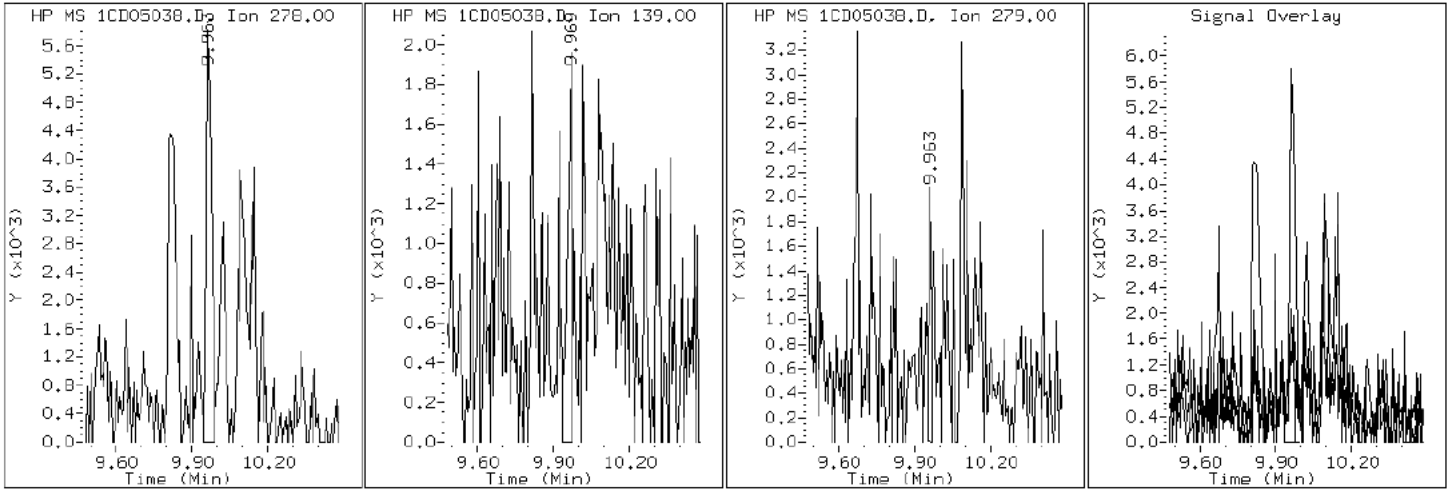
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

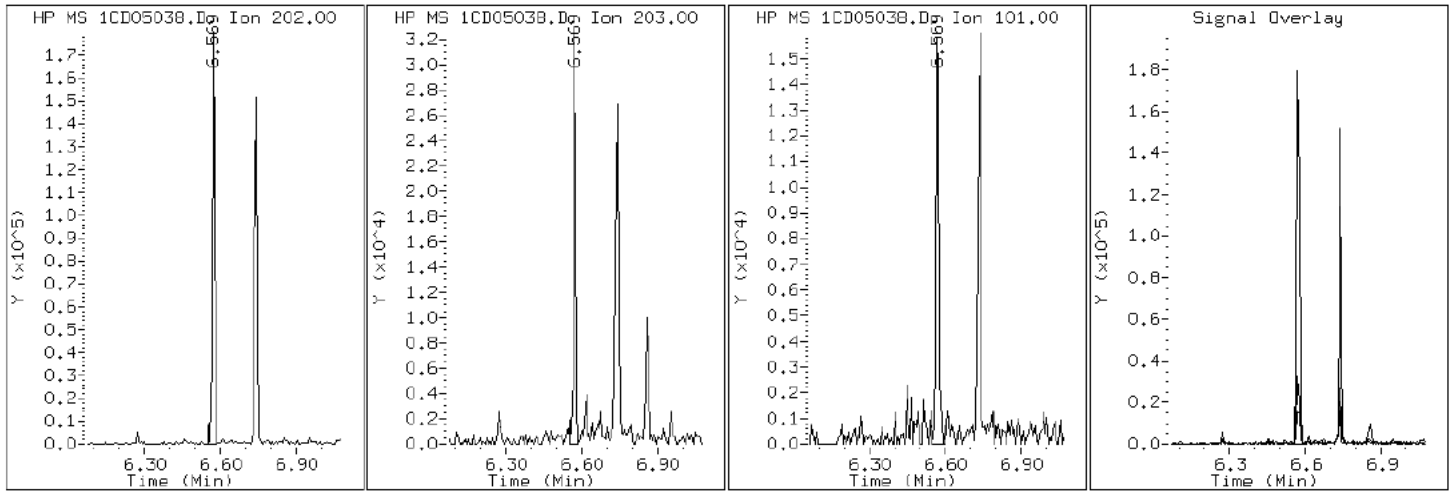
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

15 Fluoranthene





Data File: 1CD05038.D

Date: 05-APR-2013 22:45

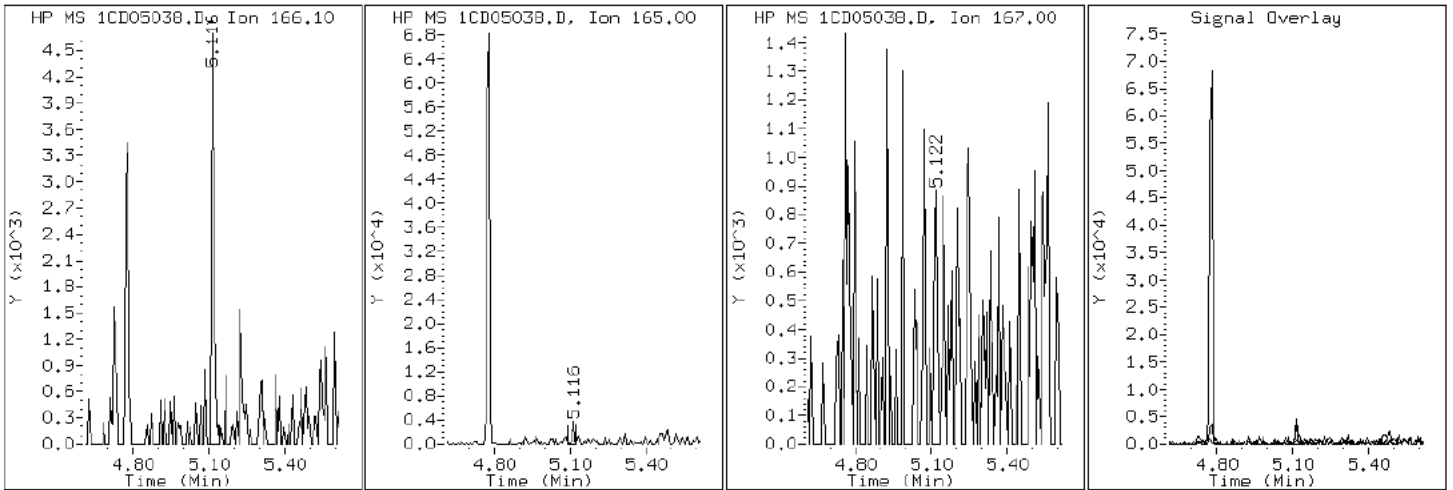
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

9 Fluorene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

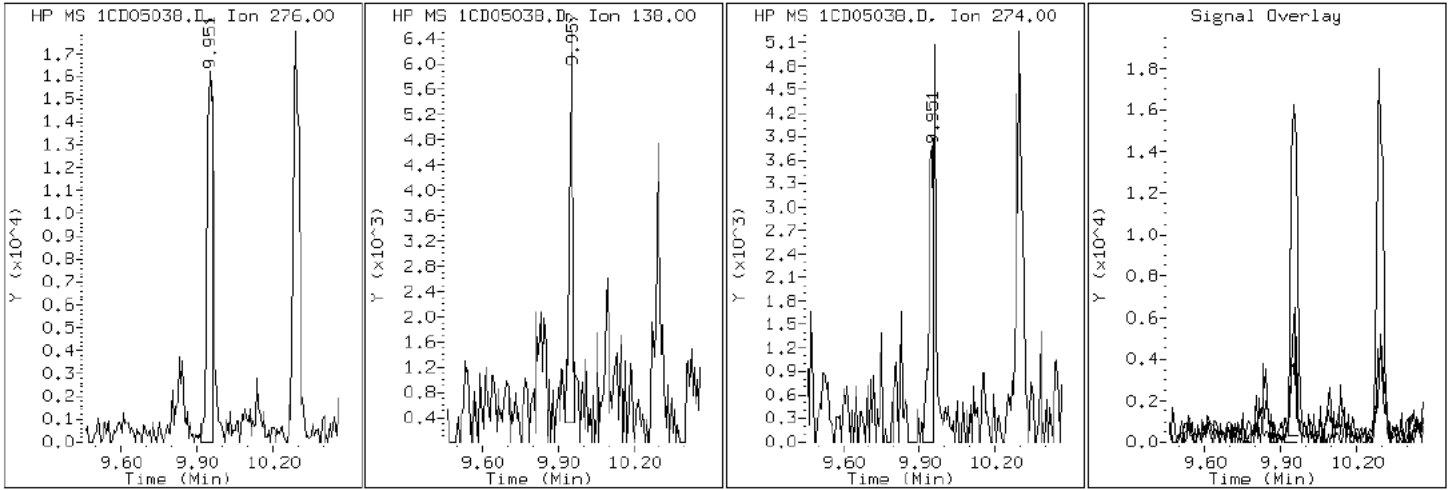
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

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



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

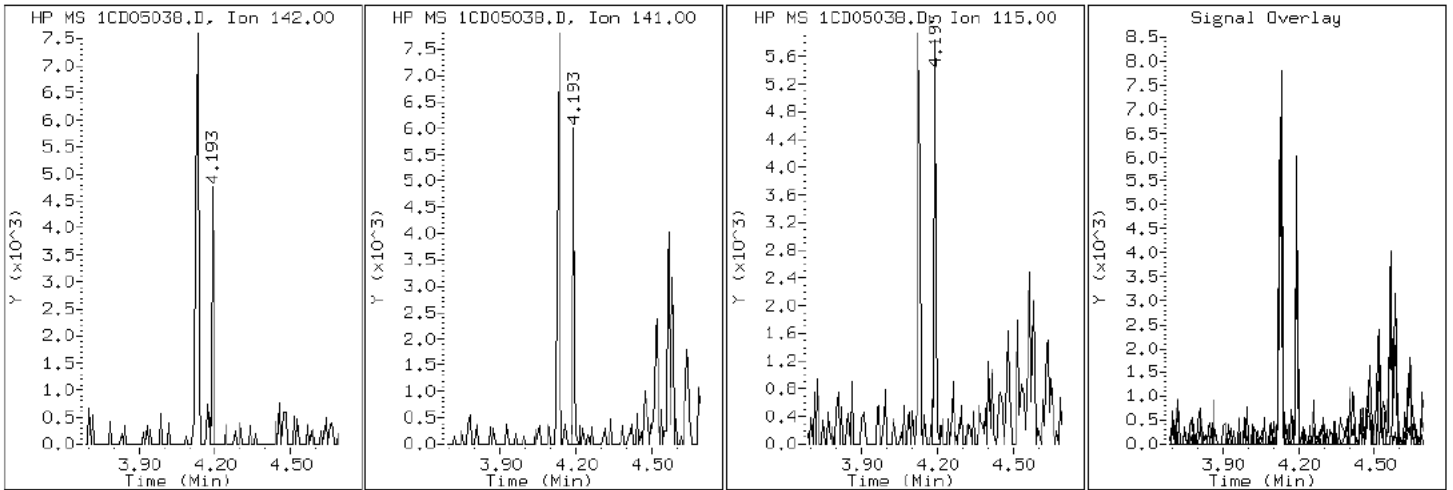
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

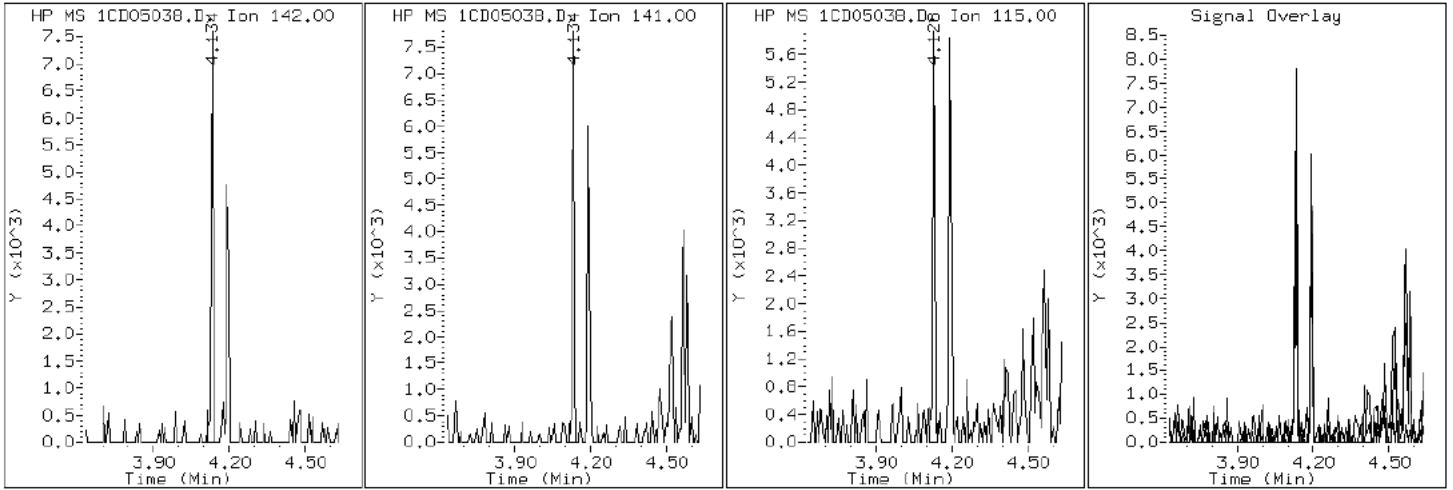
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

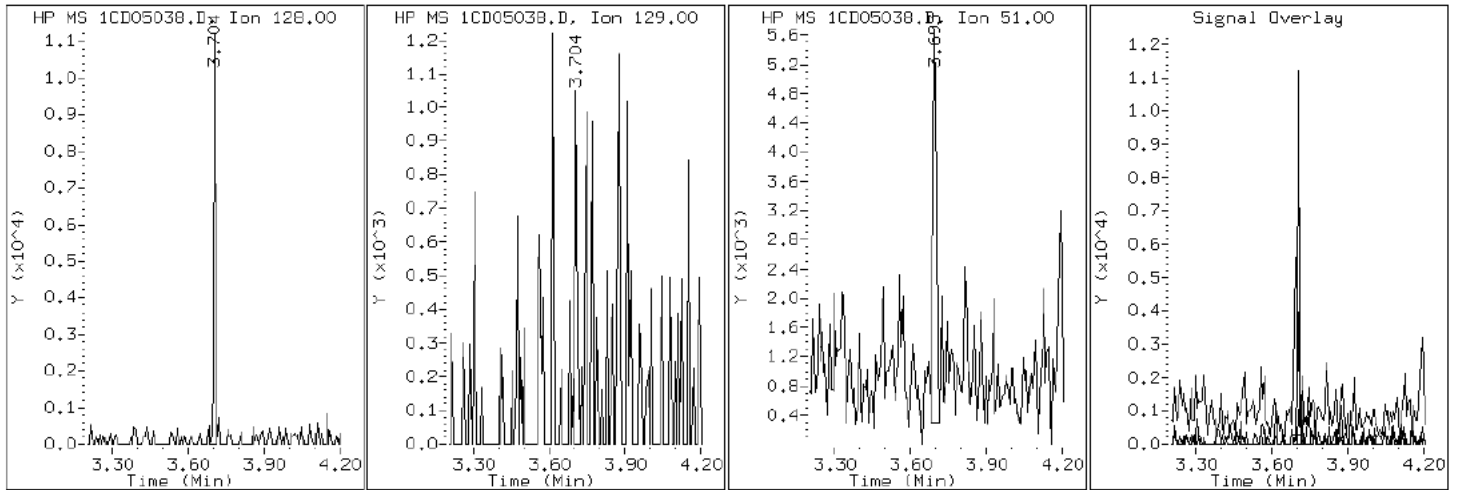
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

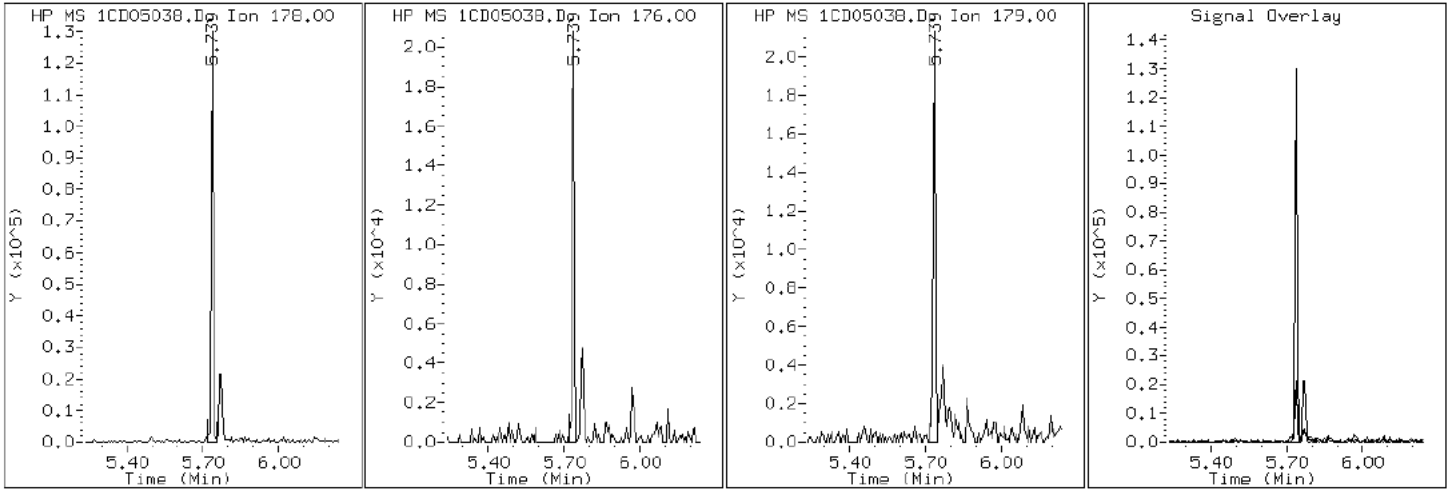
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1CD05038.D

Date: 05-APR-2013 22:45

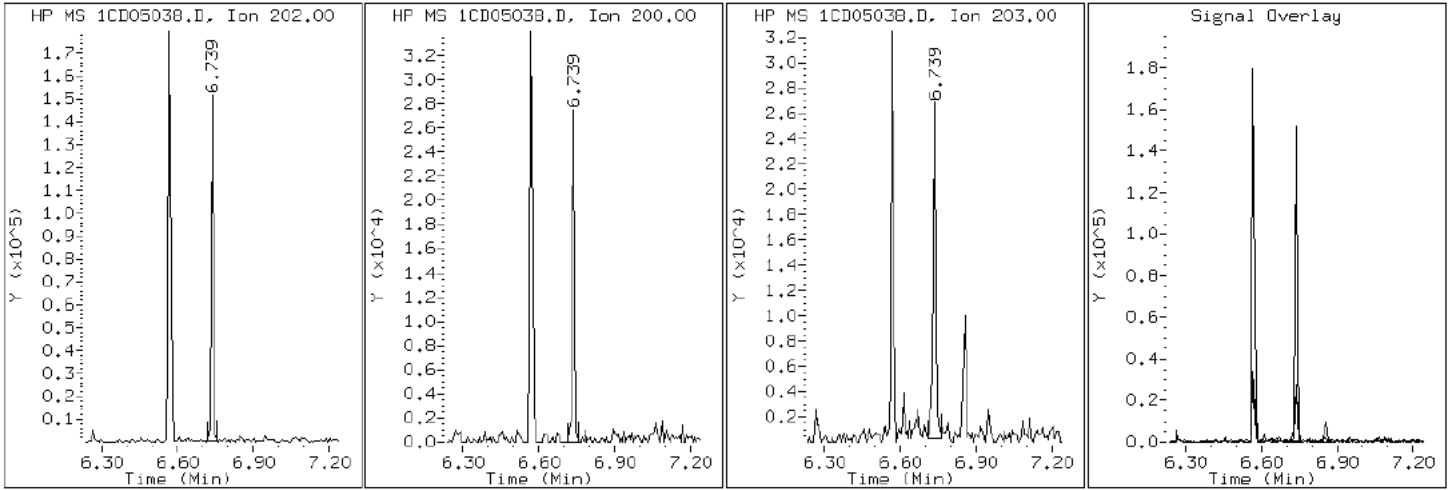
Client ID: CV0509II-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-a

Operator: SCC

16 Pyrene

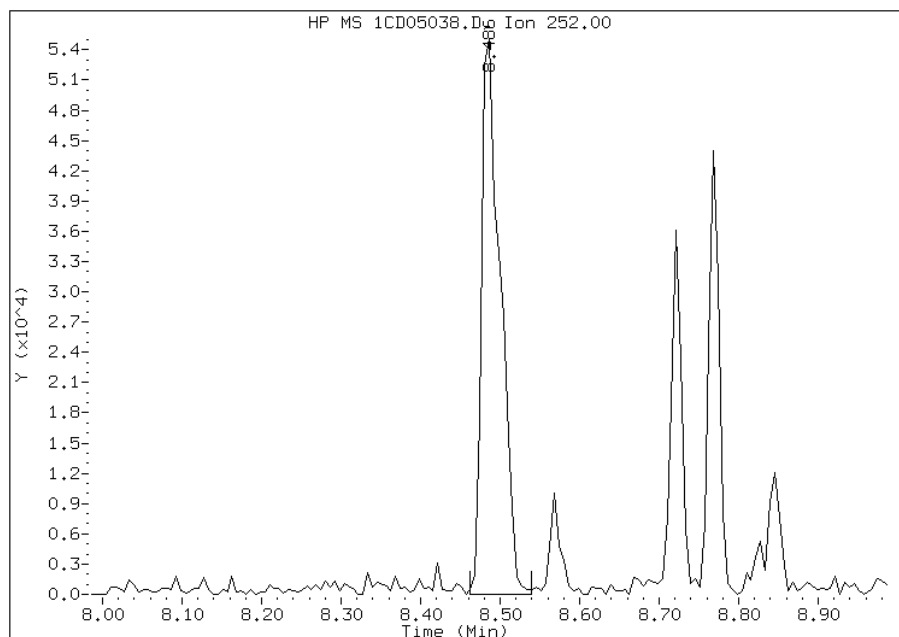


# Manual Integration Report

Data File: 1CD05038.D  
Inj. Date and Time: 05-APR-2013 22:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509II-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

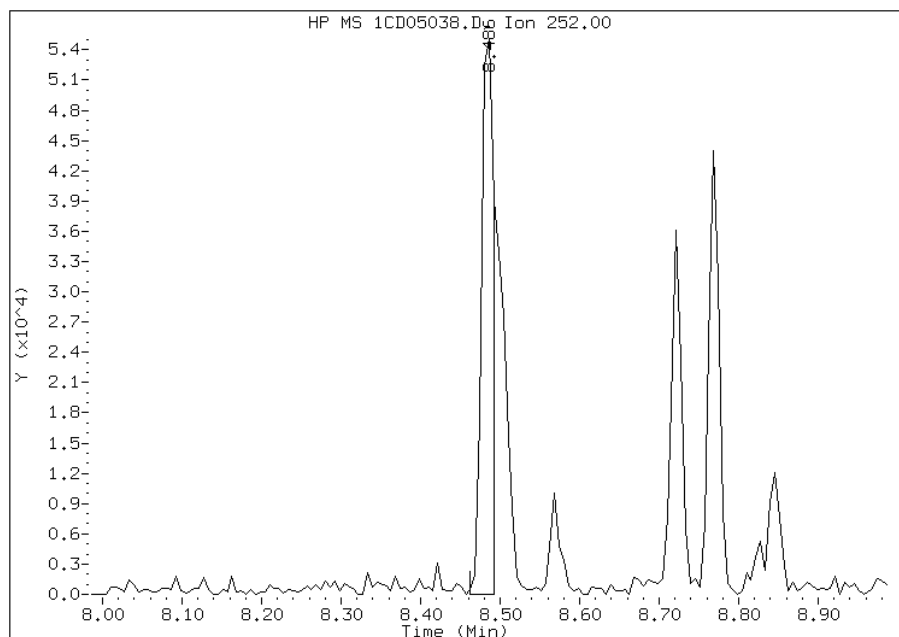
## Processing Integration Results

RT: 8.49  
Response: 90149  
Amount: 4  
Conc: 1761



## Manual Integration Results

RT: 8.49  
Response: 58611  
Amount: 3  
Conc: 1145



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:45  
Manual Integration Reason: Split Peak

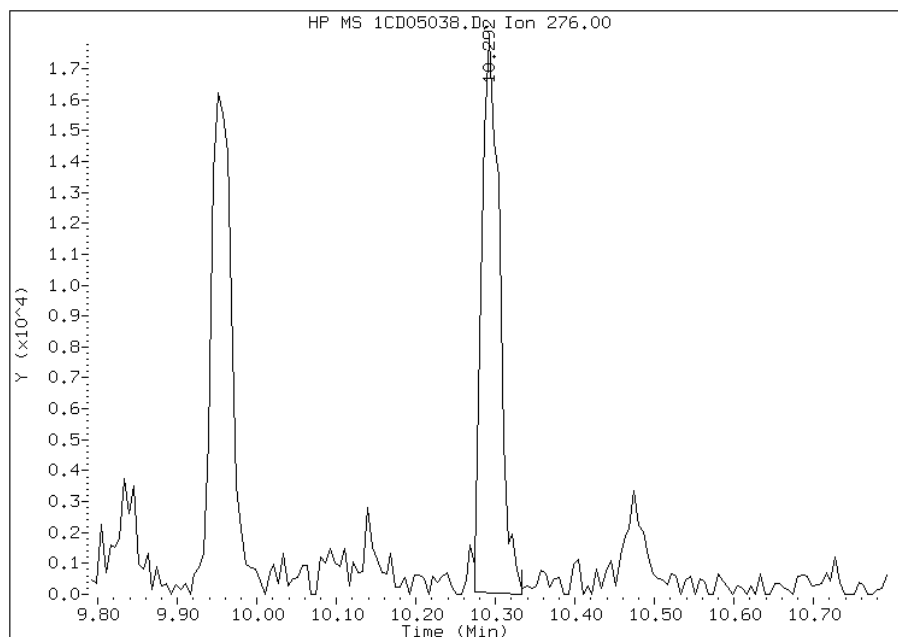


# Manual Integration Report

Data File: 1CD05038.D  
Inj. Date and Time: 05-APR-2013 22:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509II-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/09/2013

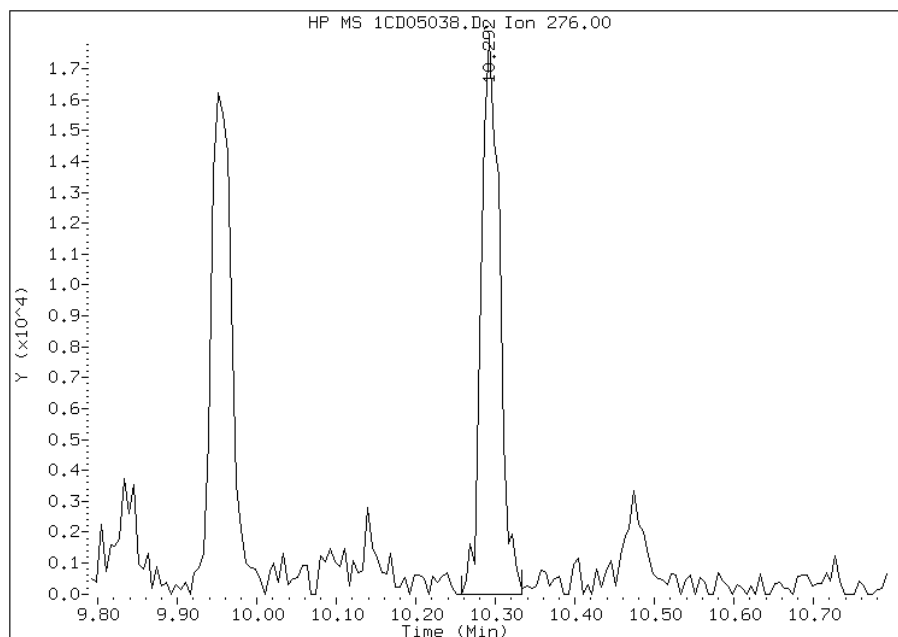
## Processing Integration Results

RT: 10.29  
Response: 27957  
Amount: 1  
Conc: 598



## Manual Integration Results

RT: 10.29  
Response: 28937  
Amount: 1  
Conc: 619



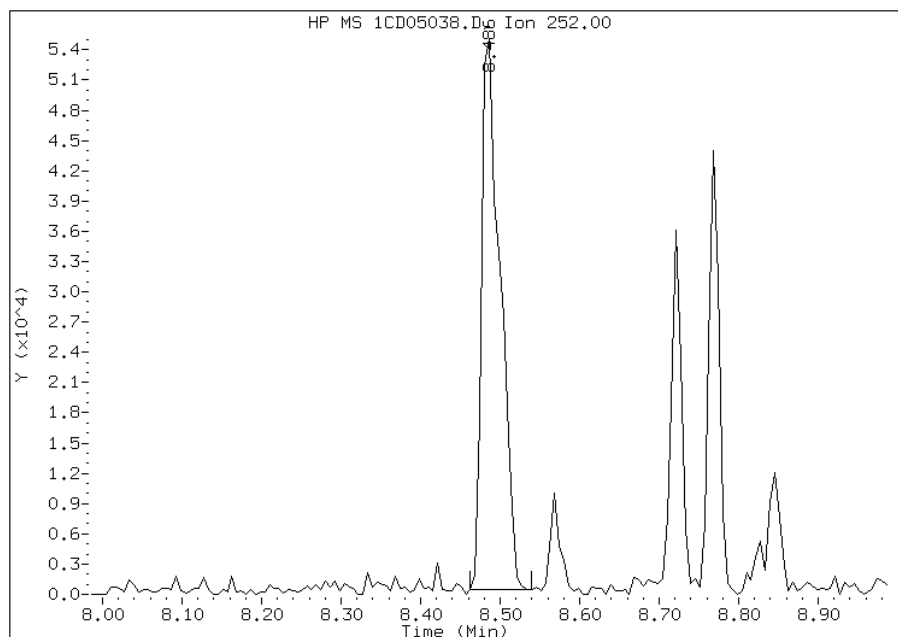
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:46  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD05038.D  
Inj. Date and Time: 05-APR-2013 22:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509II-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

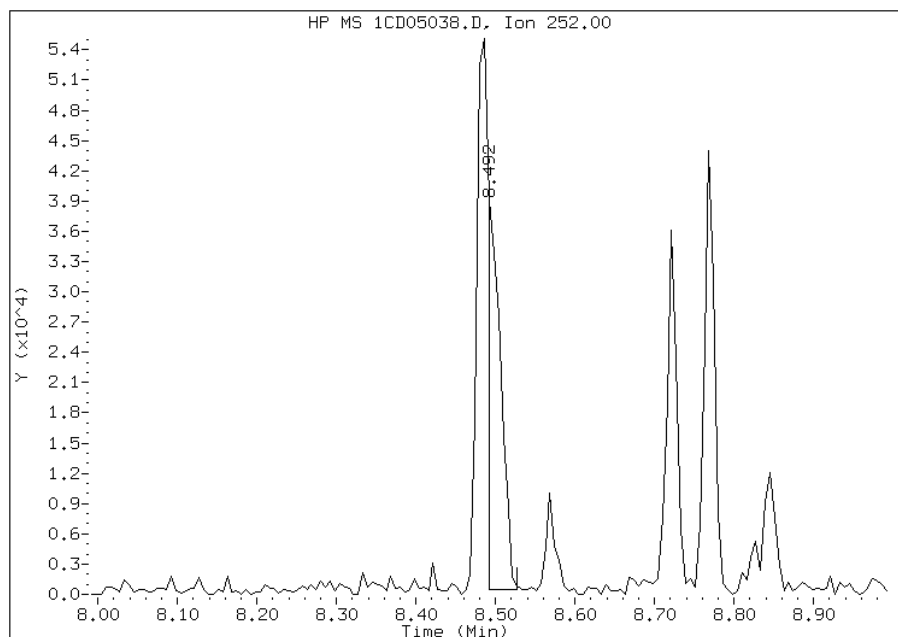
## Processing Integration Results

RT: 8.49  
Response: 87775  
Amount: 4  
Conc: 1773



## Manual Integration Results

RT: 8.49  
Response: 43761  
Amount: 2  
Conc: 884



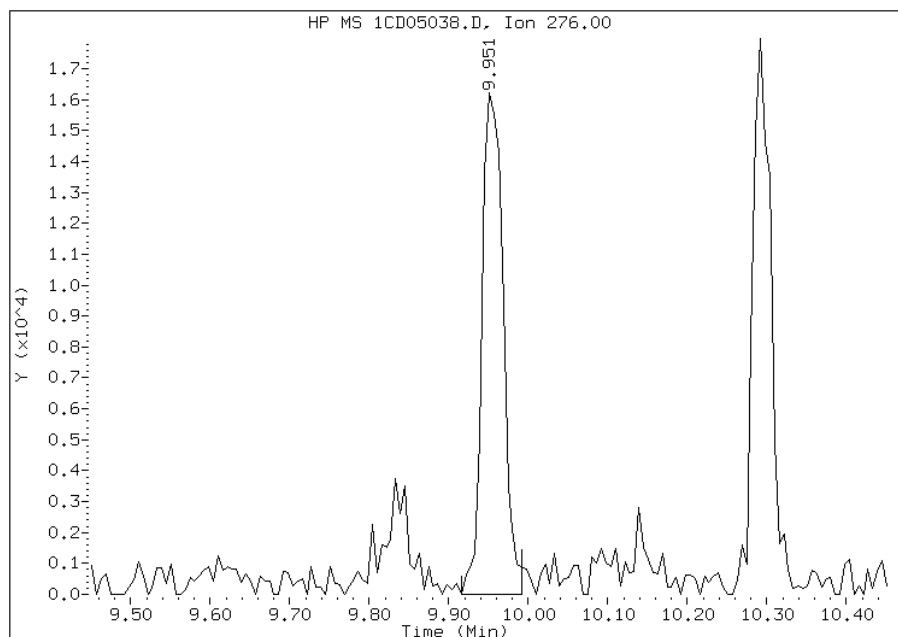
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:45  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD05038.D  
Inj. Date and Time: 05-APR-2013 22:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509II-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

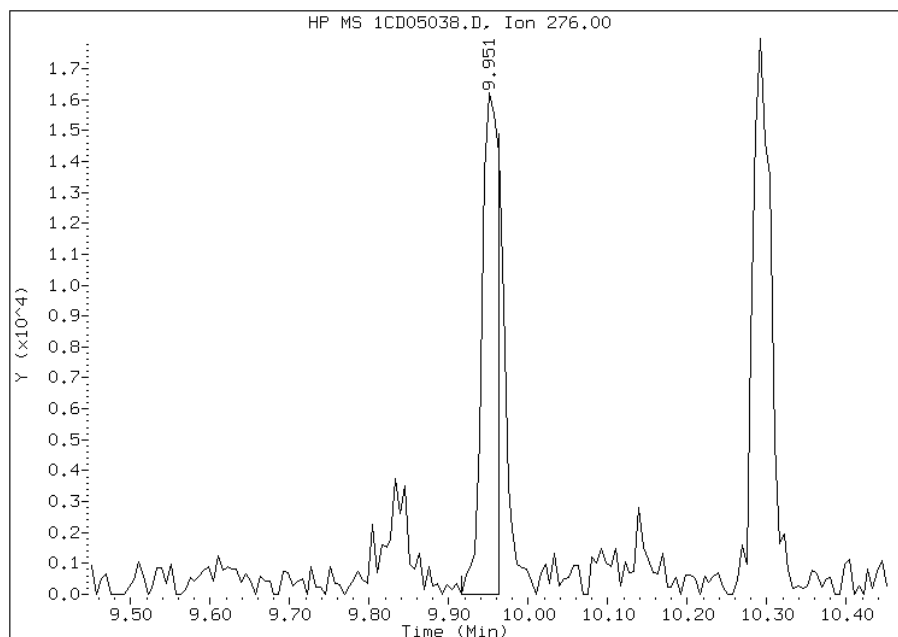
## Processing Integration Results

RT: 9.95  
Response: 29798  
Amount: 1  
Conc: 651



## Manual Integration Results

RT: 9.95  
Response: 23836  
Amount: 1  
Conc: 521



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:46  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509JJ-CS Lab Sample ID: 680-88811-2  
 Matrix: Solid Lab File ID: 1CD05041.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:33  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.25(g) Date Analyzed: 04/05/2013 23:40  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 38.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	640	U	640	130
208-96-8	Acenaphthylene	77	J	260	32
120-12-7	Anthracene	130		54	27
56-55-3	Benzo[a]anthracene	630		51	25
50-32-8	Benzo[a]pyrene	520		67	33
205-99-2	Benzo[b]fluoranthene	920		78	39
191-24-2	Benzo[g,h,i]perylene	400		130	28
207-08-9	Benzo[k]fluoranthene	390		51	23
218-01-9	Chrysene	590		58	29
53-70-3	Dibenz(a,h)anthracene	140		130	26
206-44-0	Fluoranthene	720		130	26
86-73-7	Fluorene	35	J	130	26
193-39-5	Indeno[1,2,3-cd]pyrene	340		130	45
90-12-0	1-Methylnaphthalene	89	J	260	28
91-57-6	2-Methylnaphthalene	170	J	260	45
91-20-3	Naphthalene	160	J	260	28
85-01-8	Phenanthrene	400		51	25
129-00-0	Pyrene	710		130	24

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05041.D  
 Lab Smp Id: 680-88811-A-2-A Client Smp ID: CV0509JJ-CS  
 Inj Date : 05-APR-2013 23:40  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-a-2-a  
 Misc Info : 680-88811-A-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 40  
 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	15.250	Weight Extracted
M	38.565	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	581559	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.780	(1.000)	439659	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	797354	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	15424	1.91050	815.6824
* 18 Chrysene-d12	240		7.656	7.662	(1.000)	876722	40.0000	
* 23 Perylene-d12	264		8.821	8.827	(1.000)	847427	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	5627	0.37671	160.8353
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	4011	0.39447	168.4190
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	1902	0.20789	88.7566
5 Acenaphthylene	152		4.692	4.692	(0.982)	3272	0.17982	76.7718
9 Fluorene	166		5.115	5.116	(1.070)	1239	0.08247	35.2085(Q)
11 Phenanthrene	178		5.739	5.739	(1.003)	21997	0.94722	404.4138
12 Anthracene	178		5.768	5.774	(1.008)	7088	0.30109	128.5505
13 Carbazole	167		5.880	5.880	(1.028)	3255	0.16139	68.9048

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.574	(1.148)	43232	1.68569	719.7002
16 Pyrene	202	6.739	6.739	(0.880)	40128	1.65232	705.4531
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	33867	1.46882	627.1088
19 Chrysene	228	7.674	7.680	(1.002)	34650	1.38696	592.1578
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	51613	2.15436	919.7979(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	21427	0.92473	394.8092(QM)
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	27476	1.21816	520.0884
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	17046	0.79567	339.7107(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	6699	0.33850	144.5225
26 Benzo(g,h,i)perylene	276	10.286	10.303	(1.166)	20723	0.94777	404.6463

QC Flag Legend

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

Data File: 1CD05041.D

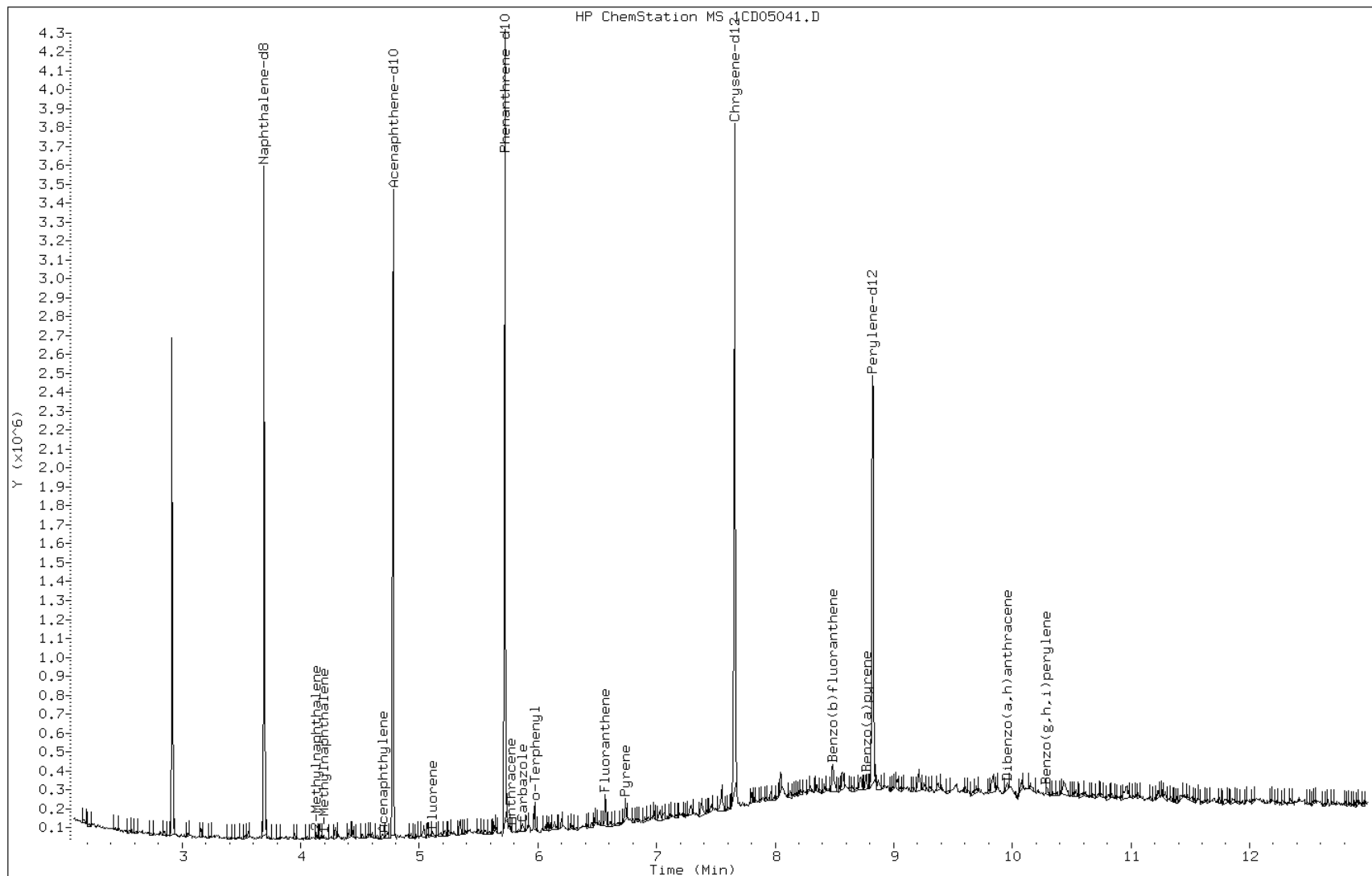
Date: 05-APR-2013 23:40

Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

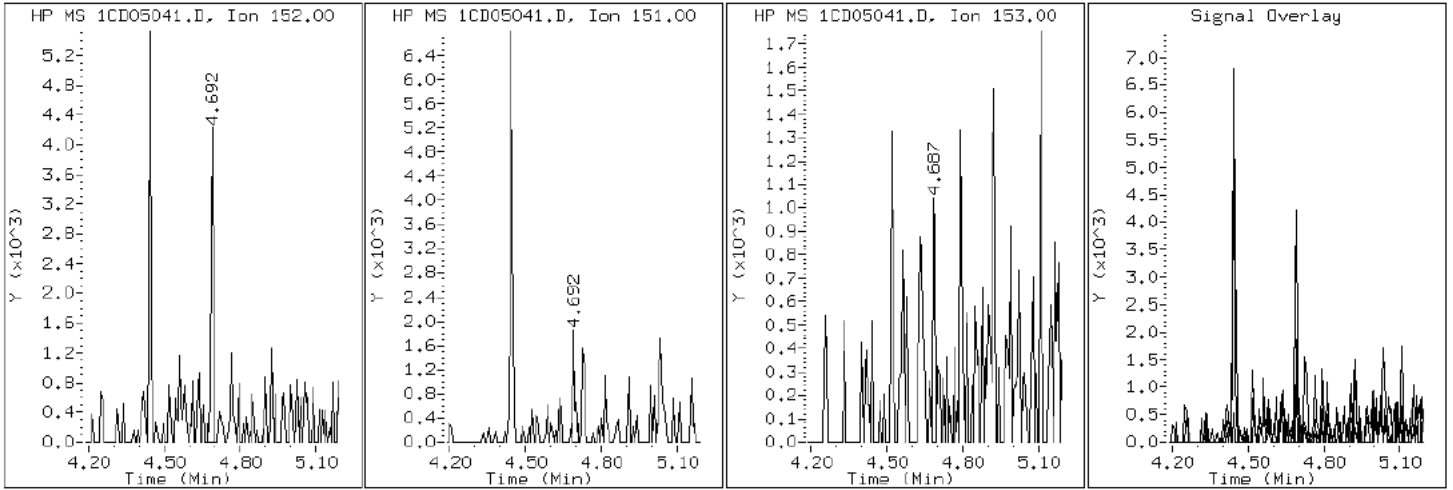
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

5 Acenaphthylene





Data File: 1CD05041.D

Date: 05-APR-2013 23:40

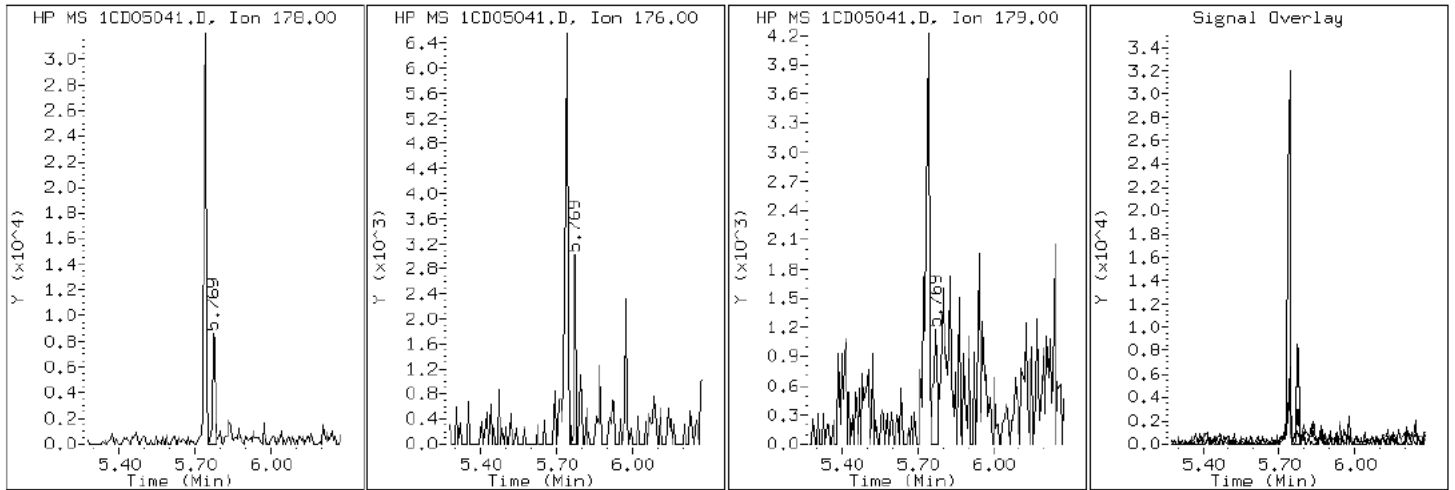
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

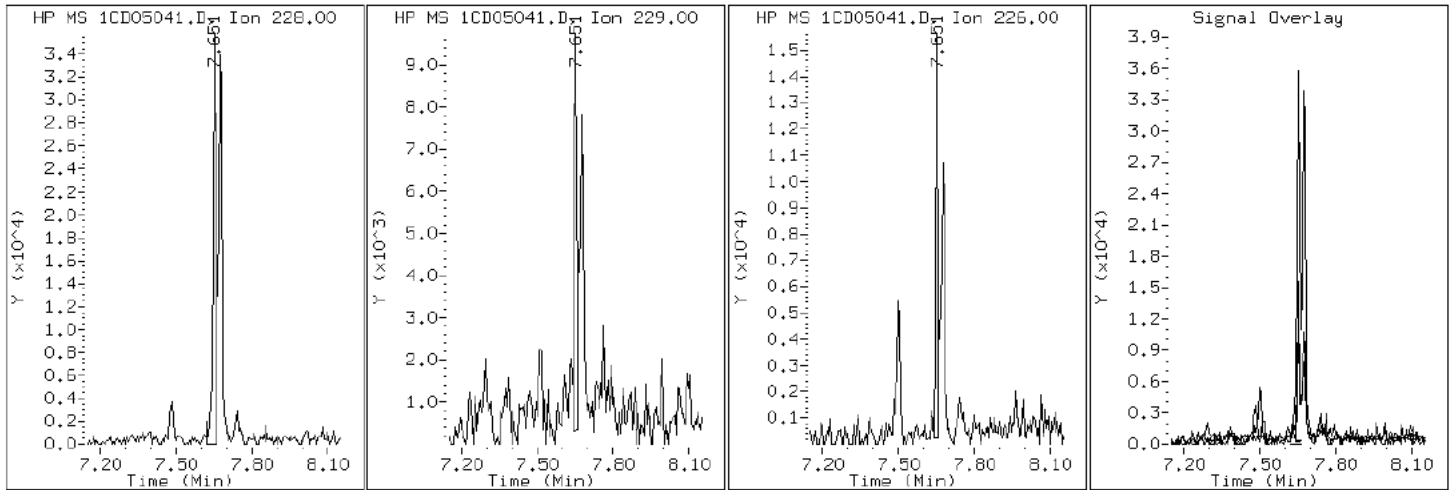
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

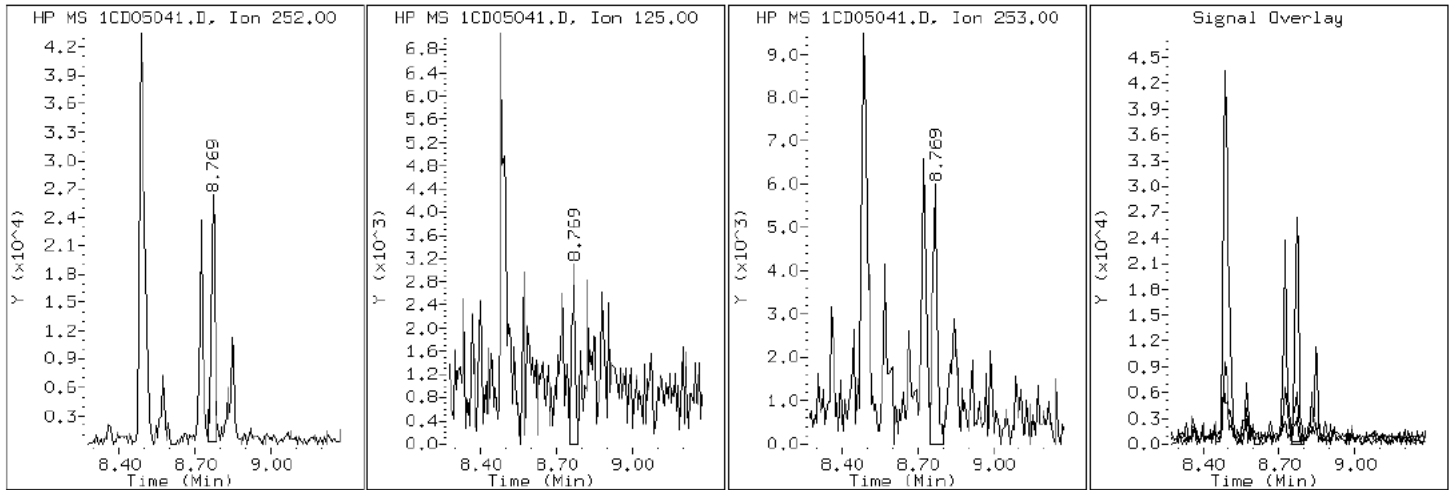
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

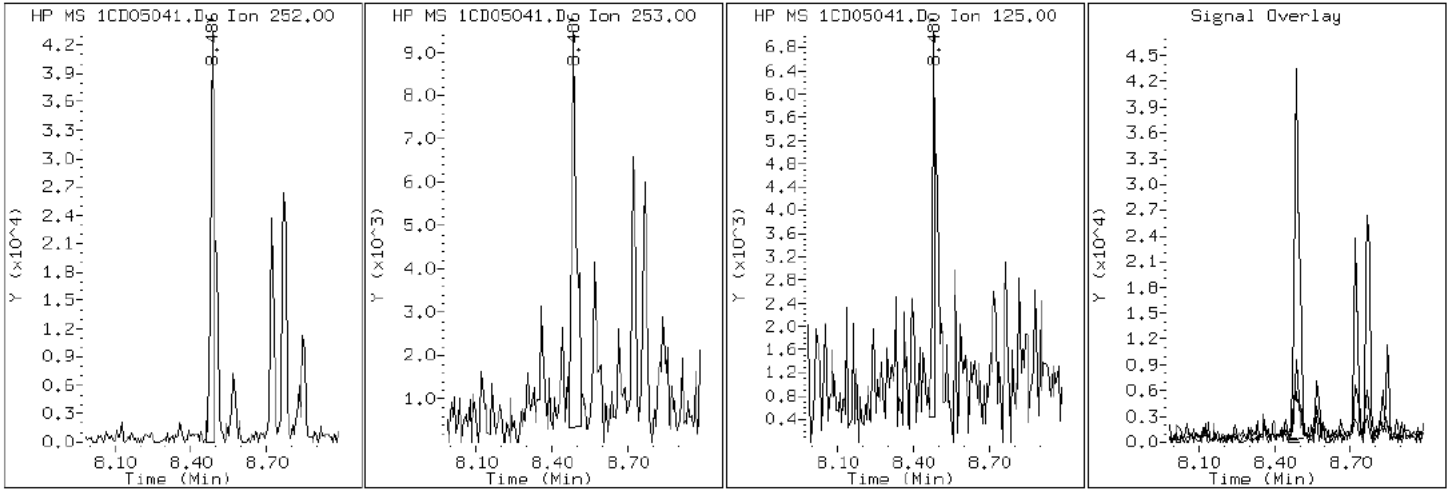
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

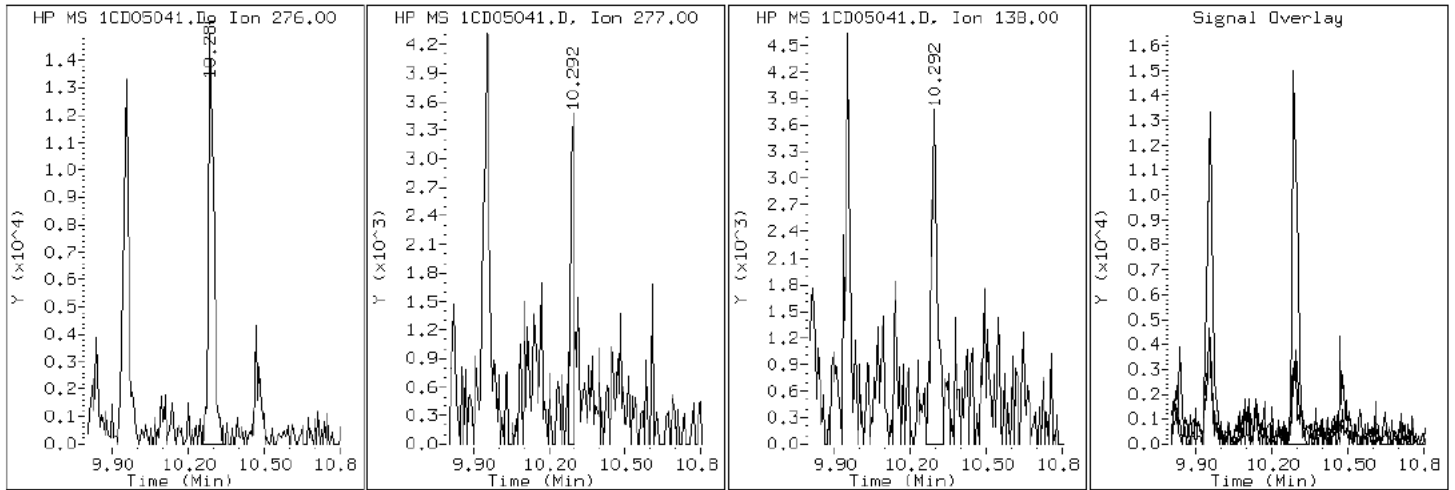
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

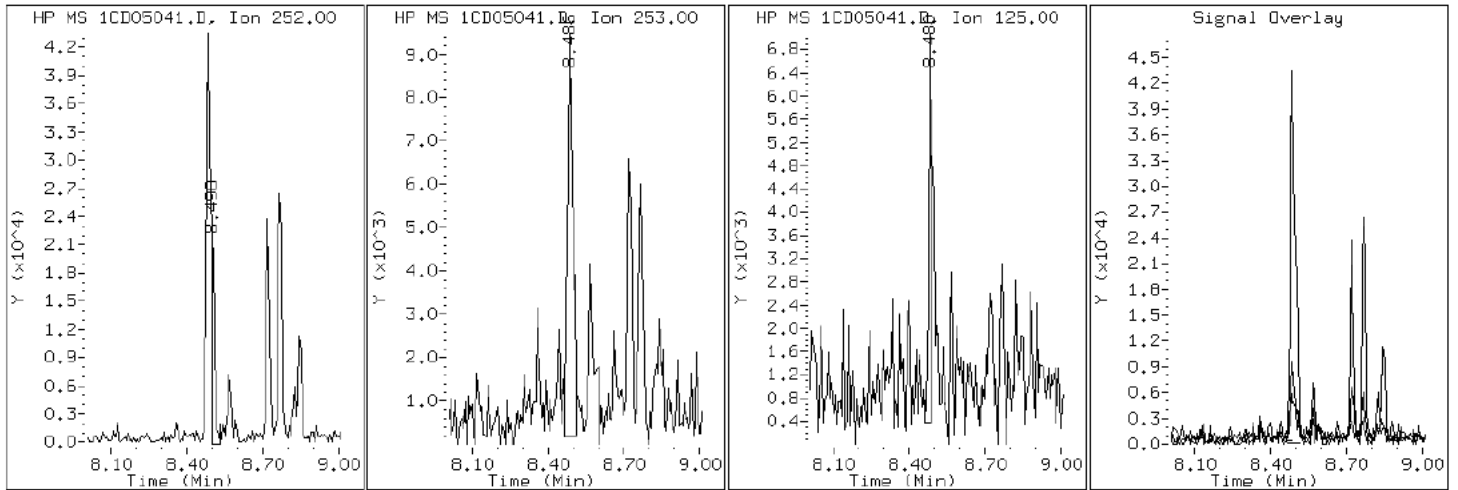
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

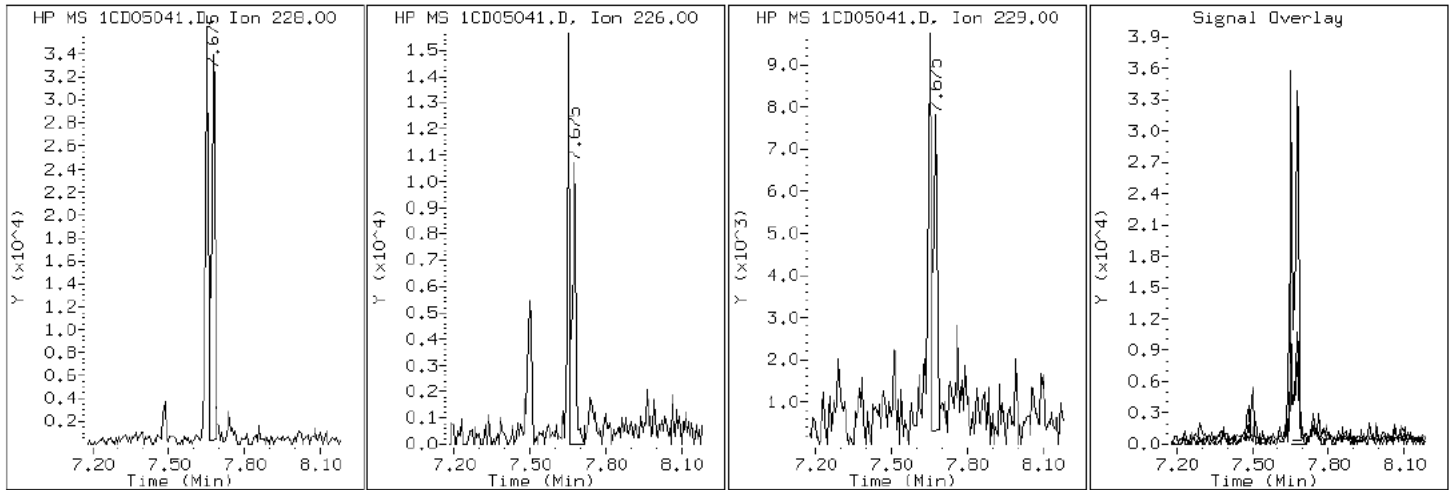
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

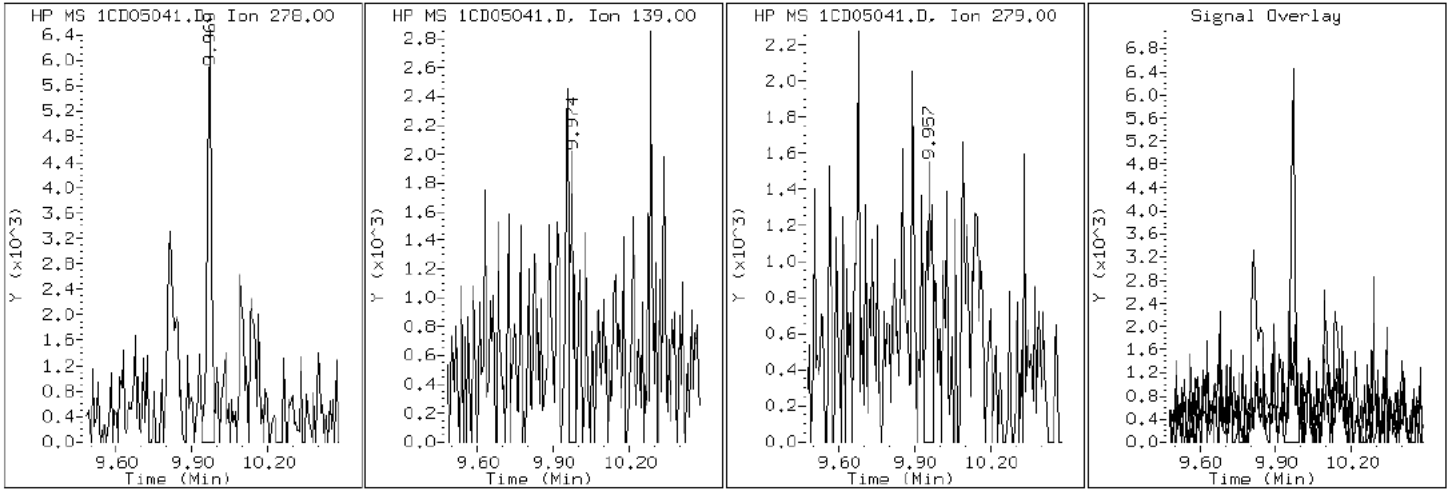
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CD05041.D

Date: 05-APR-2013 23:40

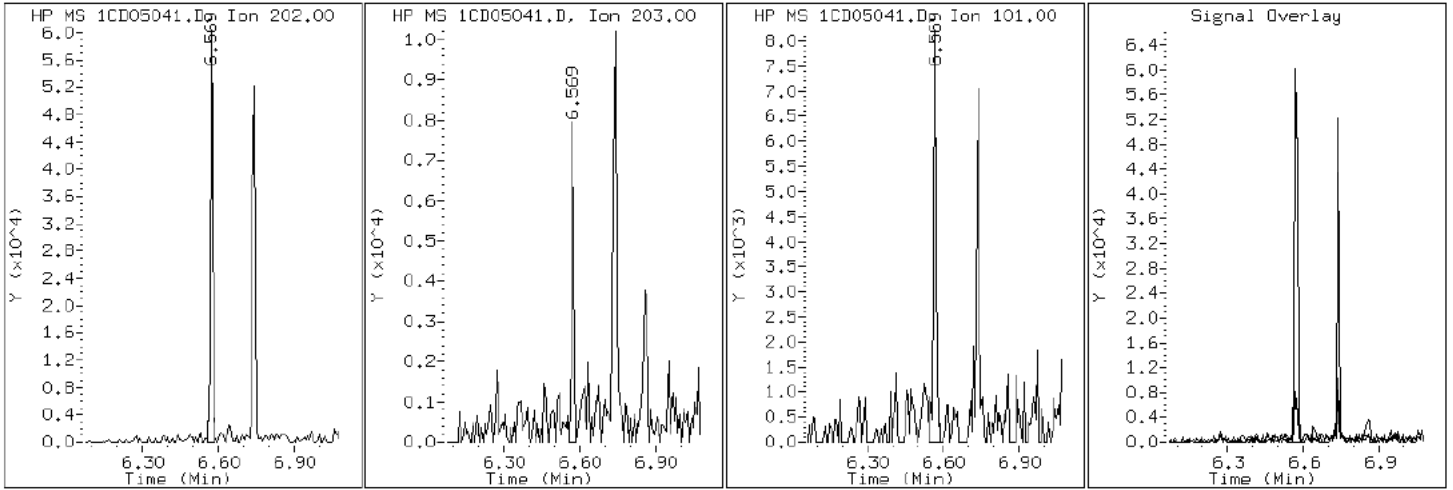
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

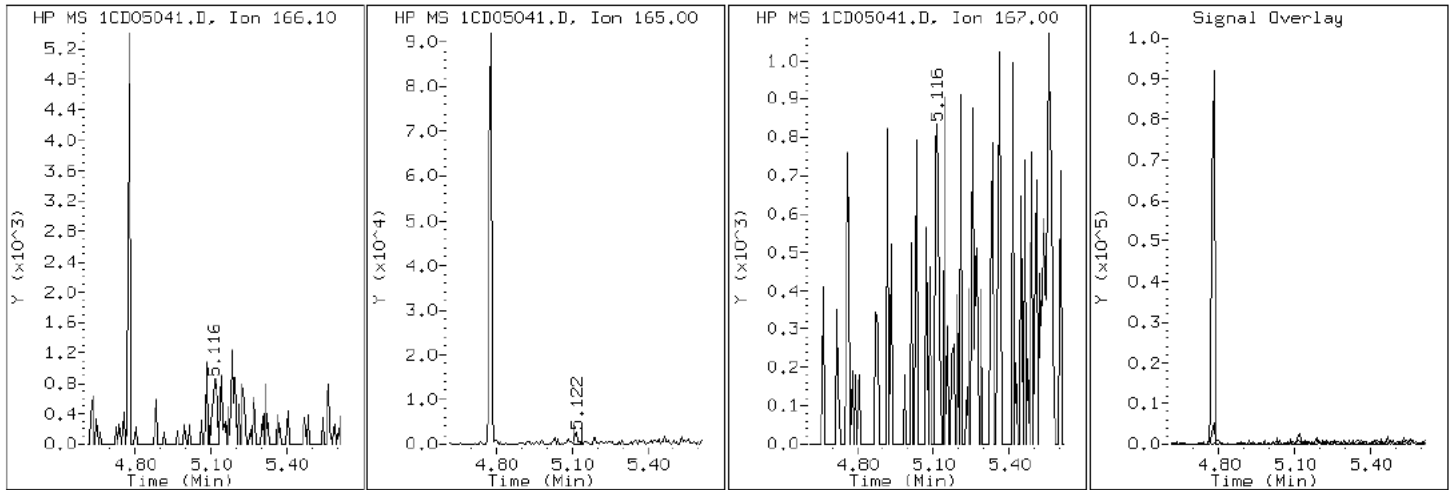
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

9 Fluorene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

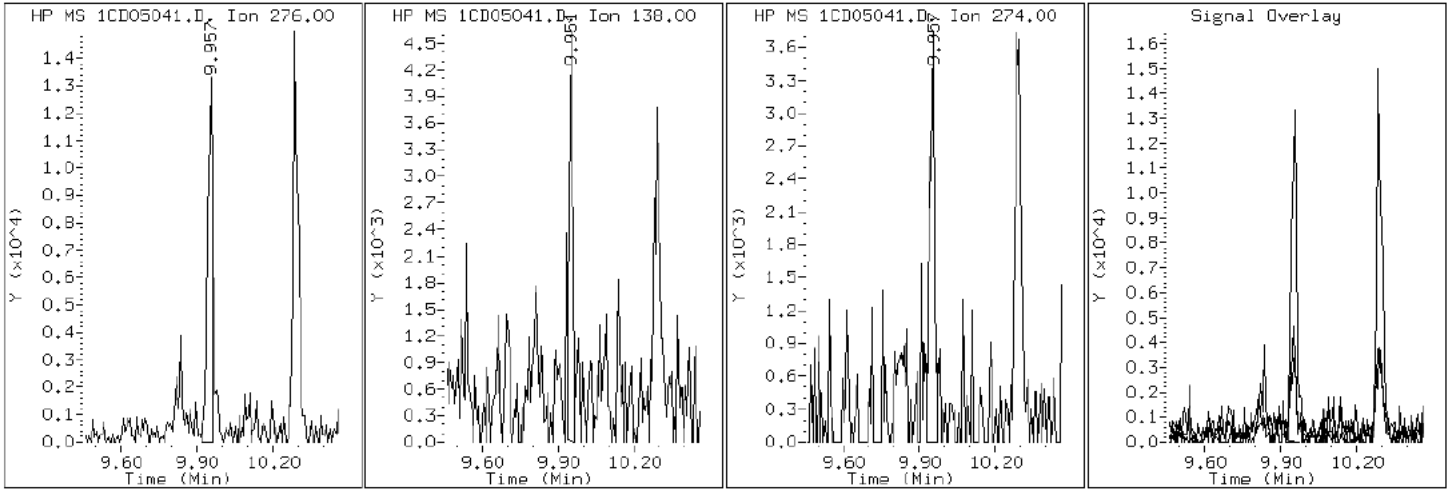
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

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



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

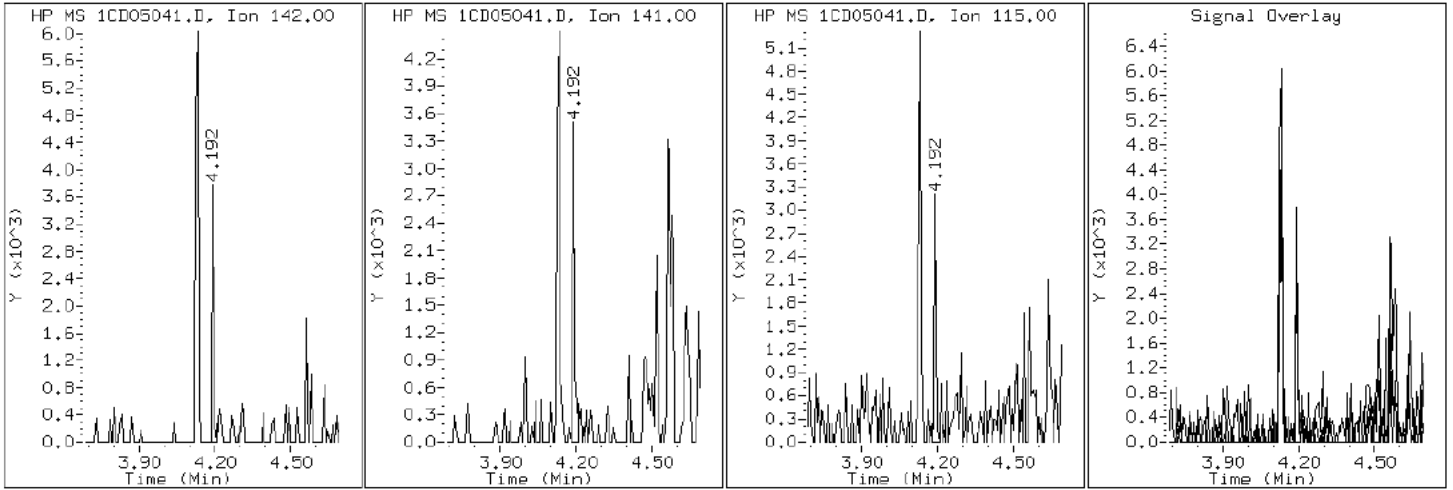
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

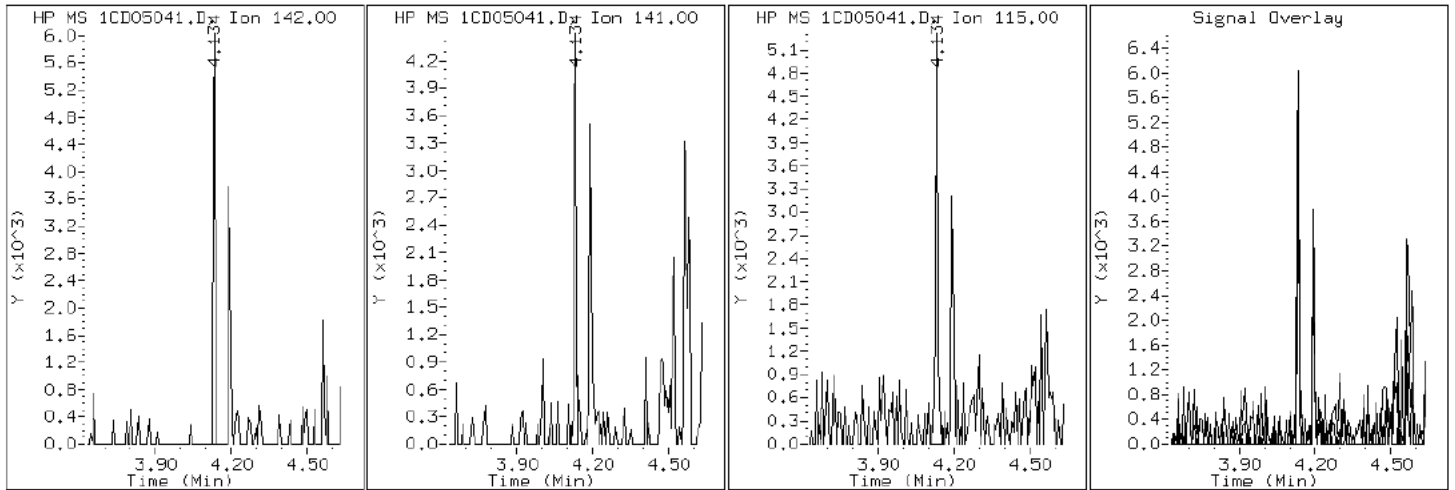
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

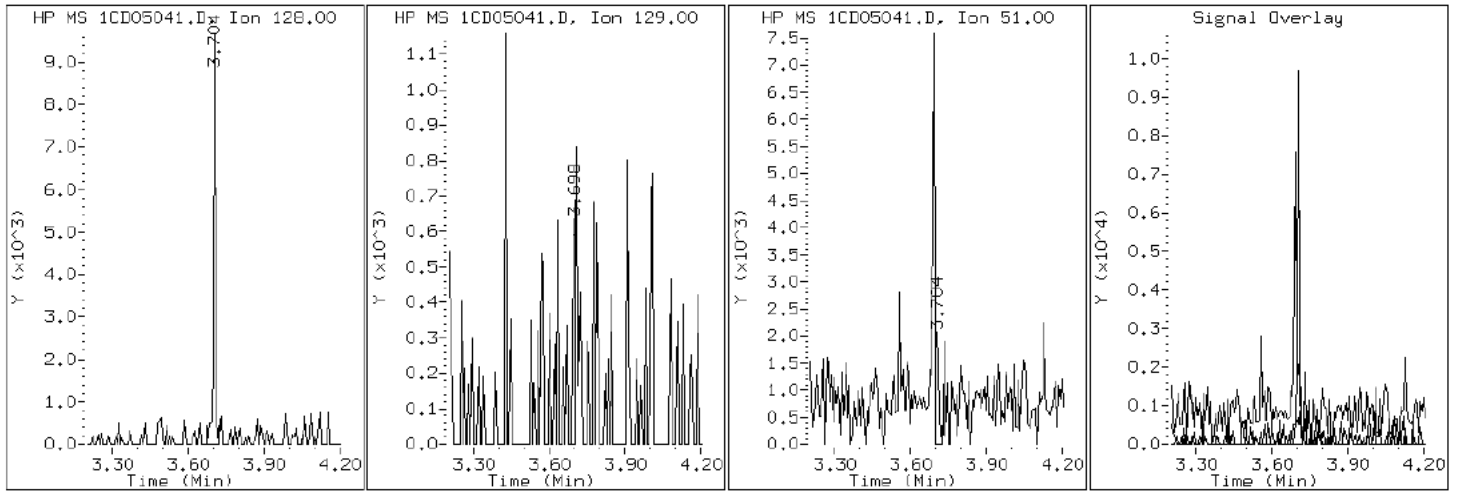
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

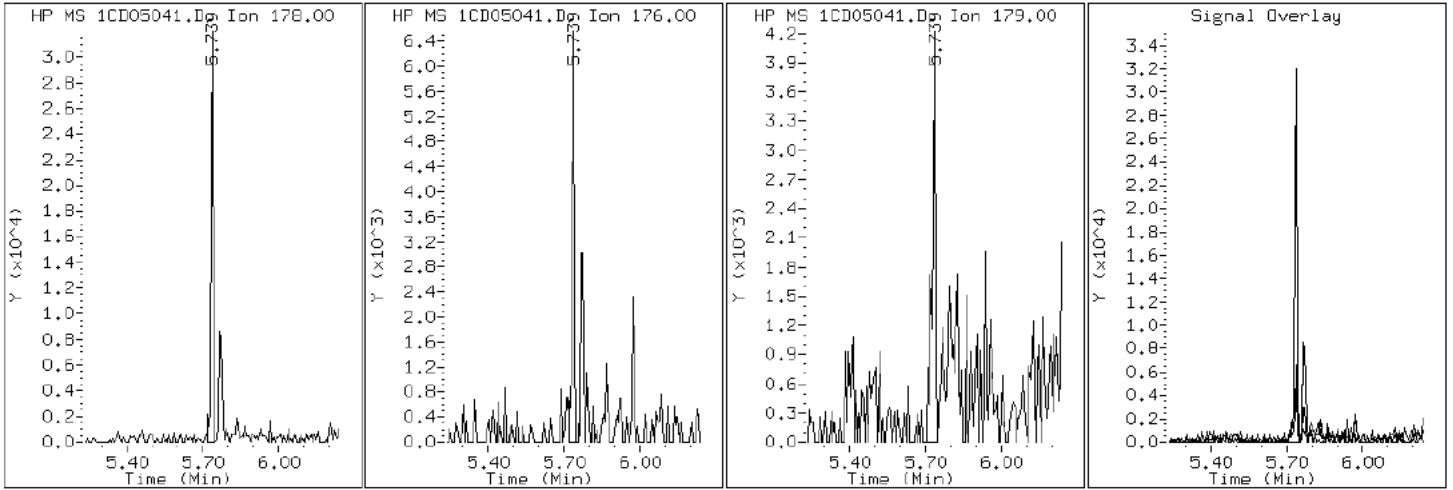
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CD05041.D

Date: 05-APR-2013 23:40

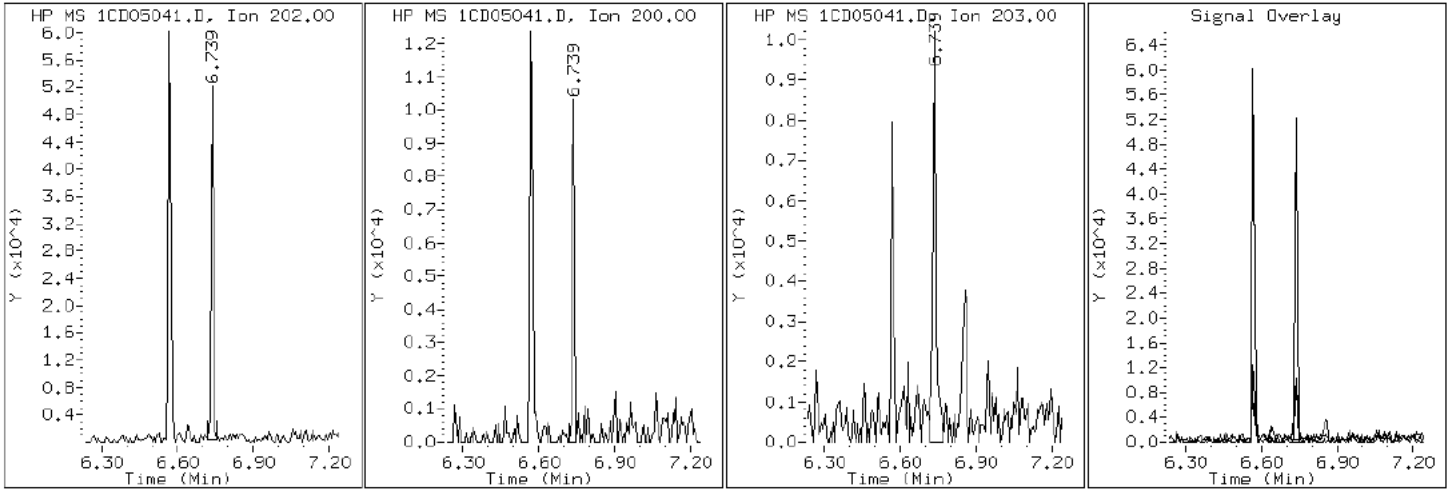
Client ID: CV0509JJ-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-a-2-a

Operator: SCC

16 Pyrene



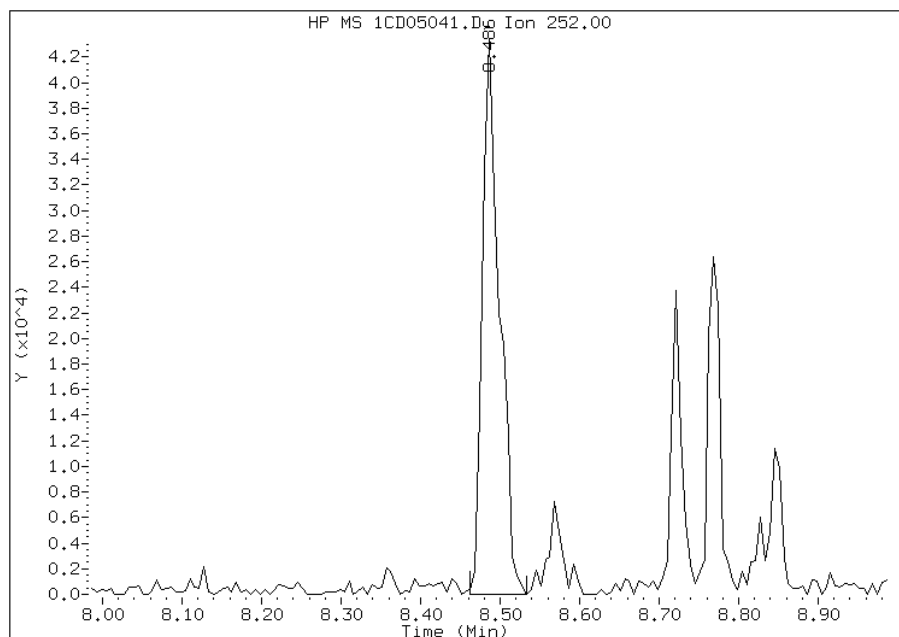


# Manual Integration Report

Data File: 1CD05041.D  
Inj. Date and Time: 05-APR-2013 23:40  
Instrument ID: BSMC5973.i  
Client ID: CV0509JJ-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

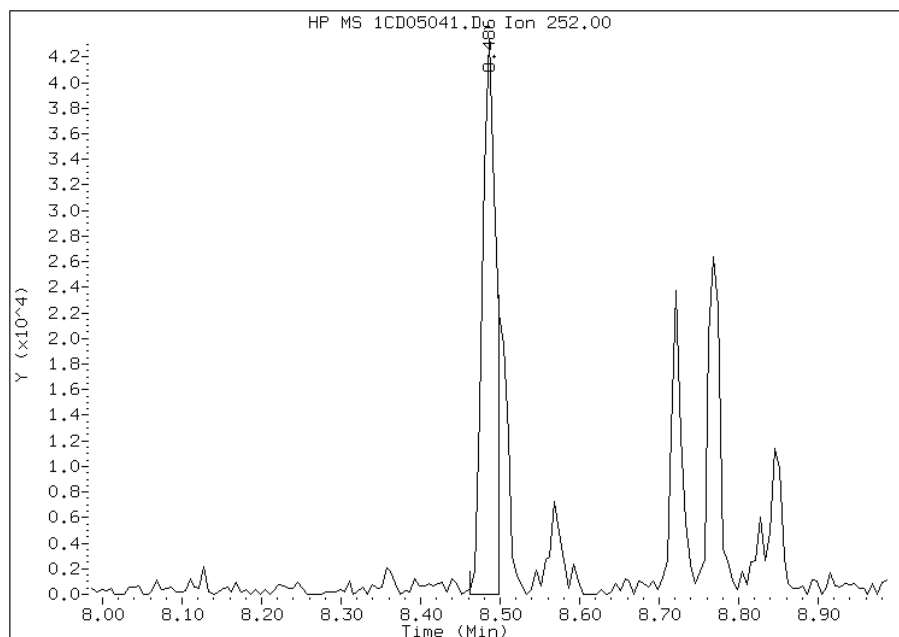
## Processing Integration Results

RT: 8.49  
Response: 64758  
Amount: 3  
Conc: 1154



## Manual Integration Results

RT: 8.49  
Response: 51613  
Amount: 2  
Conc: 920



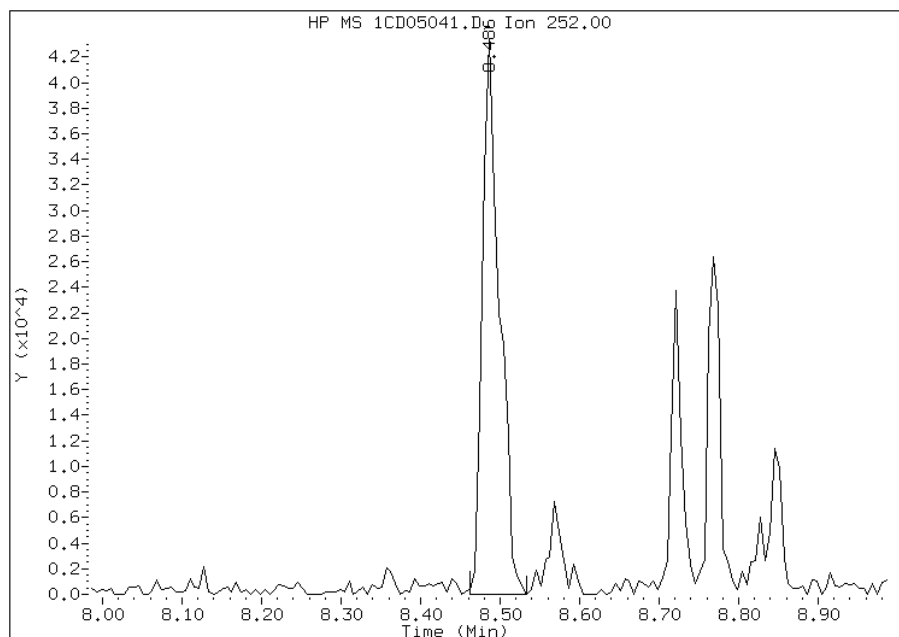
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 15:58  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD05041.D  
Inj. Date and Time: 05-APR-2013 23:40  
Instrument ID: BSMC5973.i  
Client ID: CV0509JJ-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

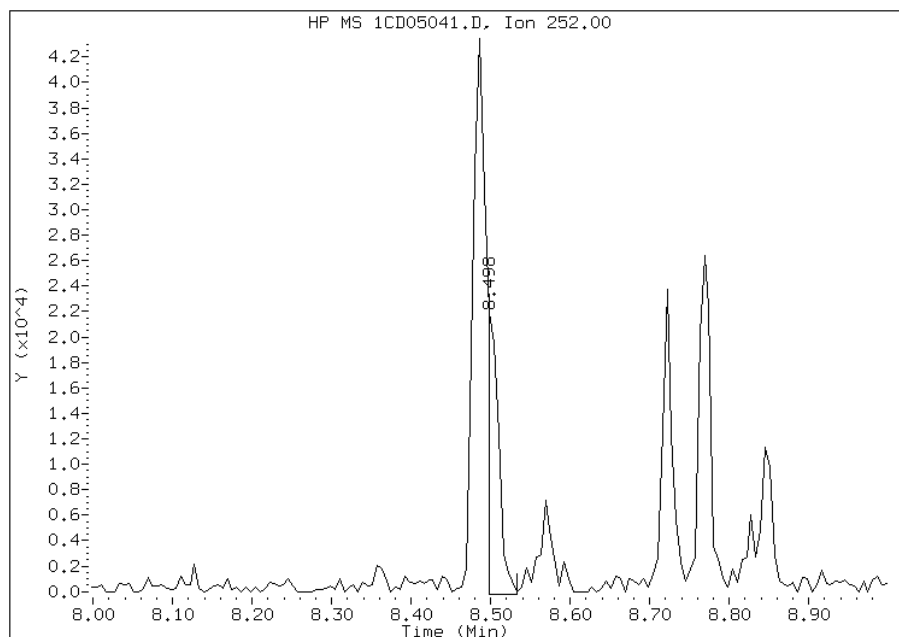
## Processing Integration Results

RT: 8.49  
Response: 64758  
Amount: 3  
Conc: 1193



## Manual Integration Results

RT: 8.50  
Response: 21427  
Amount: 1  
Conc: 395



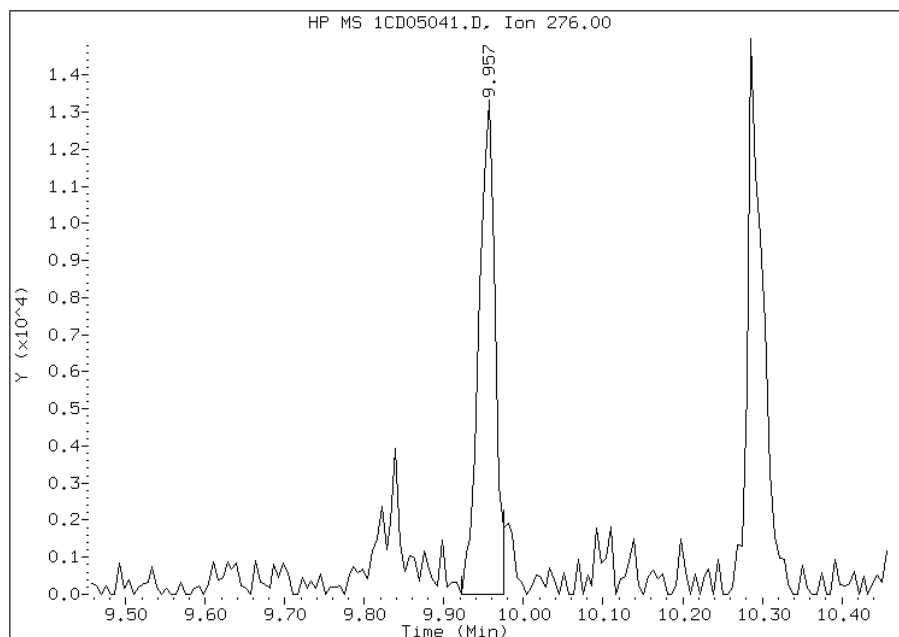
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 15:59  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD05041.D  
Inj. Date and Time: 05-APR-2013 23:40  
Instrument ID: BSMC5973.i  
Client ID: CV0509JJ-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

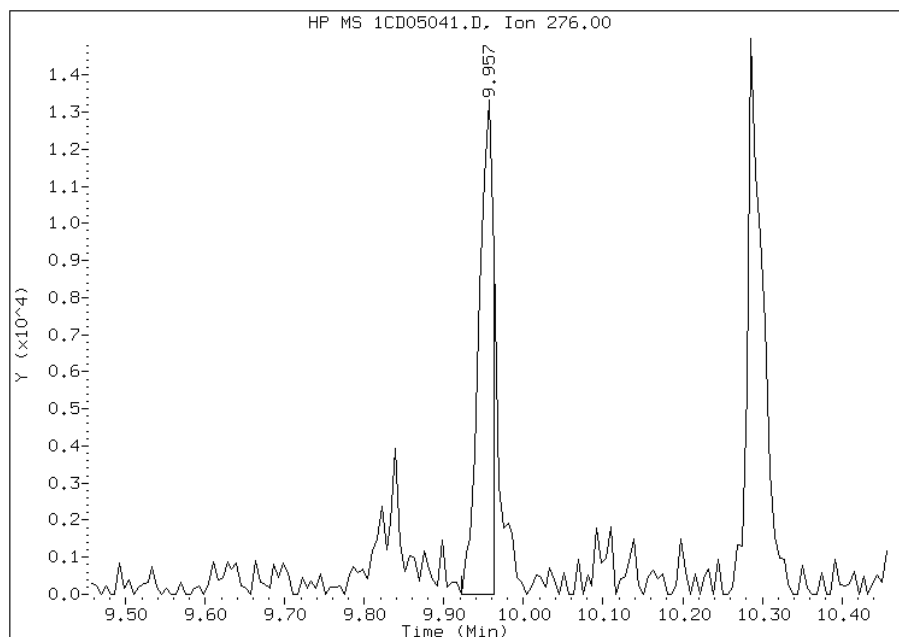
## Processing Integration Results

RT: 9.96  
Response: 18700  
Amount: 1  
Conc: 373



## Manual Integration Results

RT: 9.96  
Response: 17046  
Amount: 1  
Conc: 340



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 15:59  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509KK-CS Lab Sample ID: 680-88811-3  
 Matrix: Solid Lab File ID: 1CD09008.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:45  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.15(g) Date Analyzed: 04/09/2013 13:23  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136263 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44	J	120	24
208-96-8	Acenaphthylene	160		48	6.0
120-12-7	Anthracene	230		10	5.0
56-55-3	Benzo[a]anthracene	960		9.6	4.7
50-32-8	Benzo[a]pyrene	940		12	6.2
205-99-2	Benzo[b]fluoranthene	2200		15	7.3
191-24-2	Benzo[g,h,i]perylene	690		24	5.3
207-08-9	Benzo[k]fluoranthene	660		9.6	4.3
218-01-9	Chrysene	1400		11	5.4
53-70-3	Dibenz(a,h)anthracene	240		24	4.9
206-44-0	Fluoranthene	1100		24	4.8
86-73-7	Fluorene	48		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	700		24	8.5
90-12-0	1-Methylnaphthalene	83		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.5
91-20-3	Naphthalene	110		48	5.3
85-01-8	Phenanthrene	480		9.6	4.7
129-00-0	Pyrene	960		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09008.D  
 Lab Smp Id: 680-88811-A-3-A Client Smp ID: CV0509KK-CS  
 Inj Date : 09-APR-2013 13:23  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-3-A  
 Misc Info : 680-88811-A-3-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\A-BFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	17.489	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.686	3.686	(1.000)	357070	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	269791	40.0000	
* 10 Phenanthrene-d10	188		5.715	5.716	(1.000)	513920	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.968	(1.044)	60455	7.93235	634.5650
* 18 Chrysene-d12	240		7.650	7.657	(1.000)	595358	40.0000	
* 23 Perylene-d12	264		8.815	8.827	(1.000)	571336	40.0000	
2 Naphthalene	128		3.698	3.698	(1.003)	12292	1.34027	107.2179(Q)
3 2-Methylnaphthalene	142		4.127	4.127	(1.120)	8357	1.33861	107.0852
4 1-Methylnaphthalene	142		4.186	4.186	(1.136)	5839	1.03943	83.1513
5 Acenaphthylene	152		4.686	4.686	(0.982)	22667	2.03000	162.3944
7 Acenaphthene	154		4.792	4.792	(1.004)	3765	0.54440	43.5505(Q)
9 Fluorene	166		5.109	5.110	(1.070)	5528	0.59960	47.9660
11 Phenanthrene	178		5.733	5.733	(1.003)	89901	6.00632	480.4882
12 Anthracene	178		5.768	5.768	(1.009)	43115	2.84158	227.3182

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	17900	1.37700	110.1558
15 Fluoranthene	202	6.562	6.568	(1.148)	228463	13.8211	1105.6504
16 Pyrene	202	6.733	6.733	(0.880)	198321	12.0254	961.9955
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	204322	11.9801	958.3714
19 Chrysene	228	7.674	7.674	(1.003)	288804	17.0234	1361.8245
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	448114	27.7433	2219.3843
21 Benzo(k)fluoranthene	252	8.497	8.509	(0.964)	129587	8.29514	663.5872(QM)
22 Benzo(a)pyrene	252	8.762	8.768	(0.994)	178593	11.7442	939.5043
24 Indeno(1,2,3-cd)pyrene	276	9.944	9.956	(1.128)	127162	8.80401	704.2953(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.130)	40195	3.01255	240.9952
26 Benzo(g,h,i)perylene	276	10.286	10.298	(1.167)	126430	8.57649	686.0943

QC Flag Legend

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

Data File: 1CD09008.D

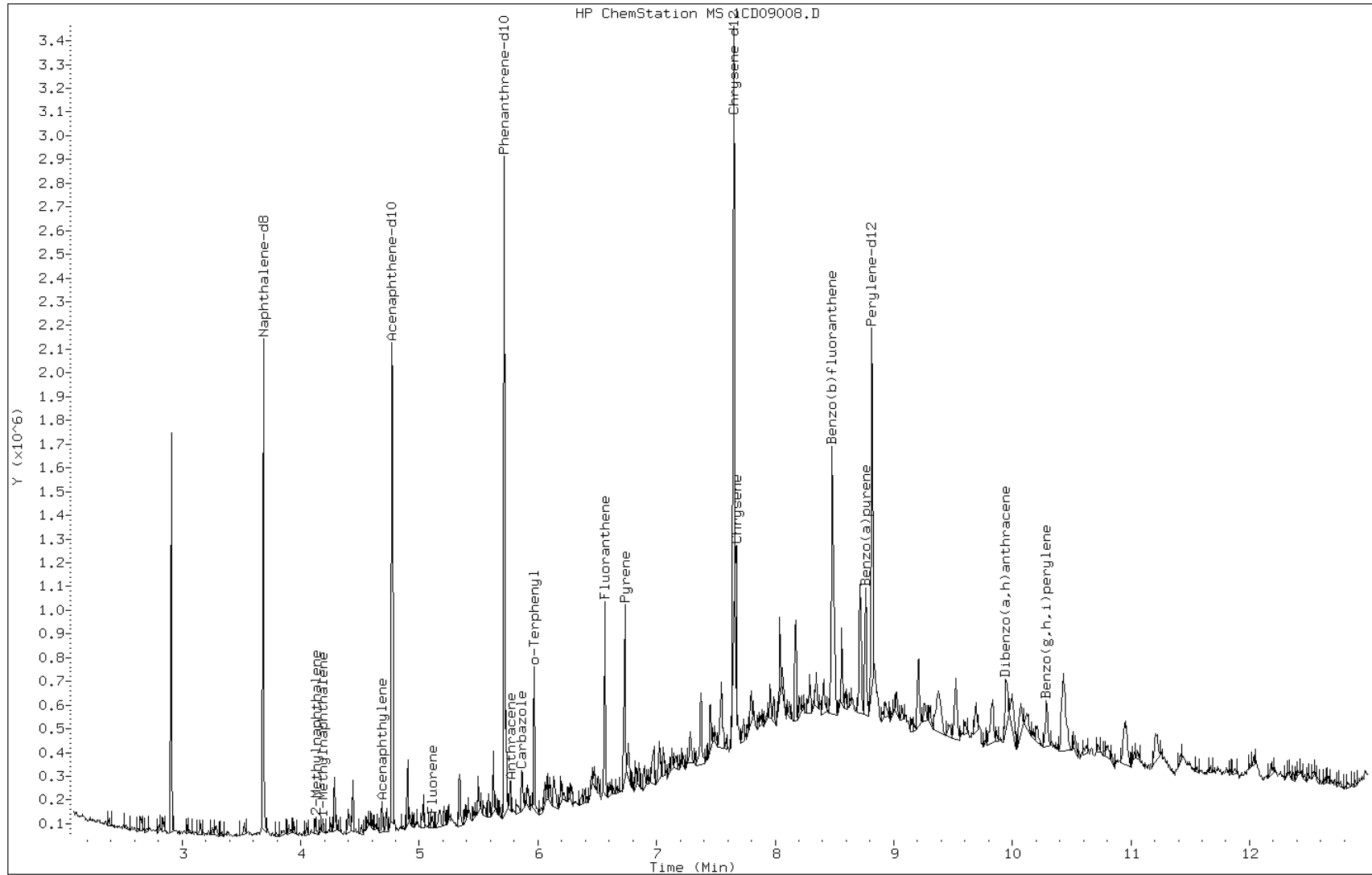
Date: 09-APR-2013 13:23

Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

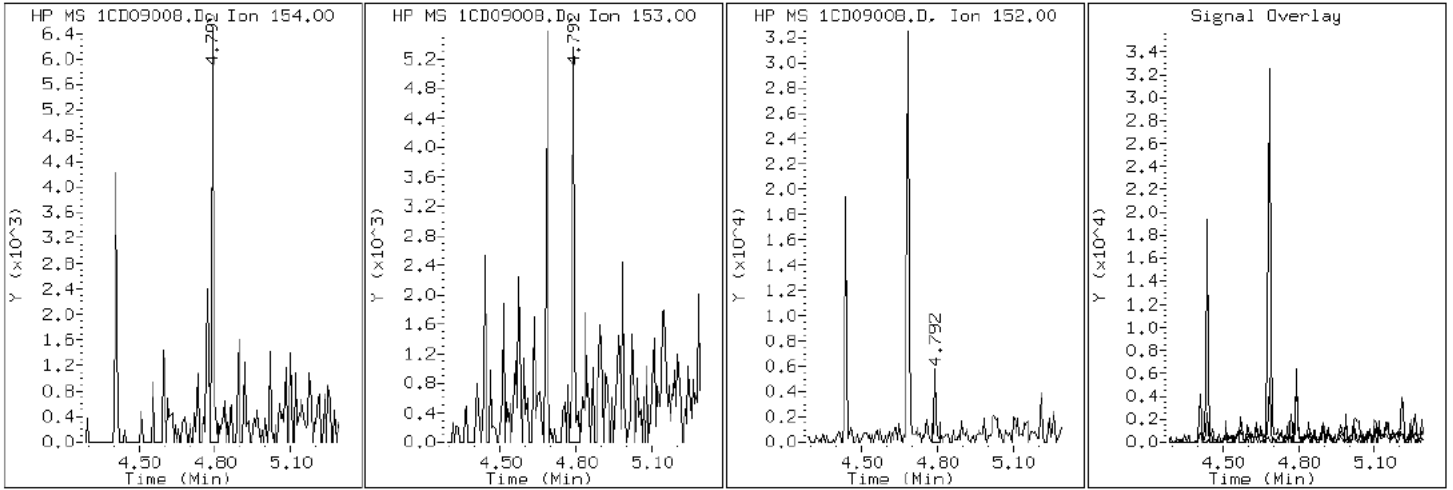
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

7 Acenaphthene





Data File: 1CD09008.D

Date: 09-APR-2013 13:23

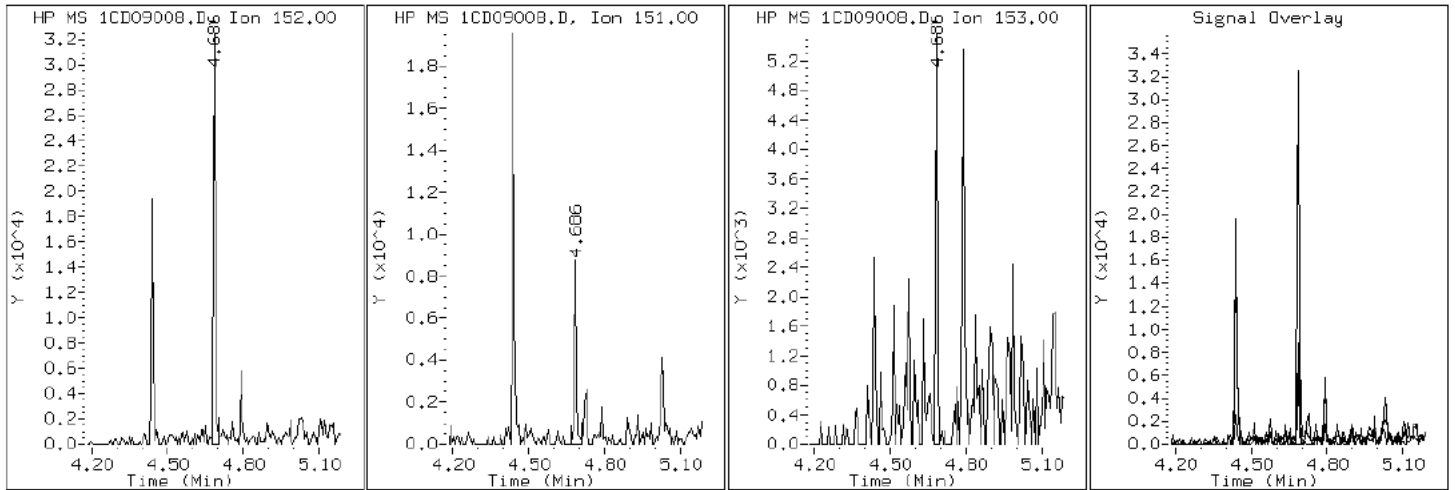
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

5 Acenaphthylene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

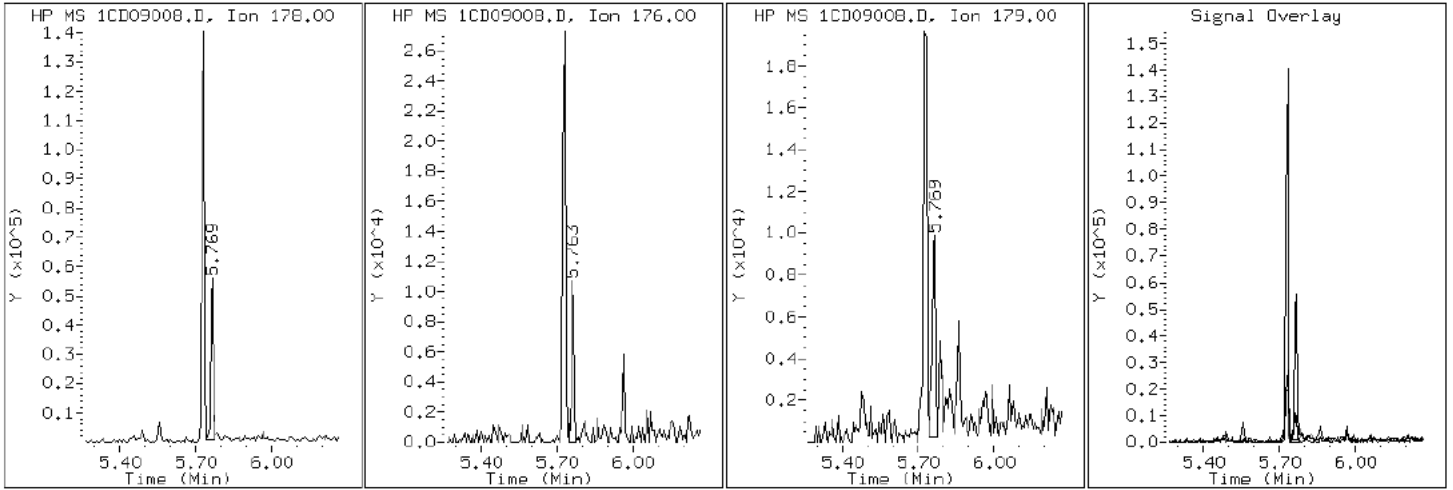
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

12 Anthracene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

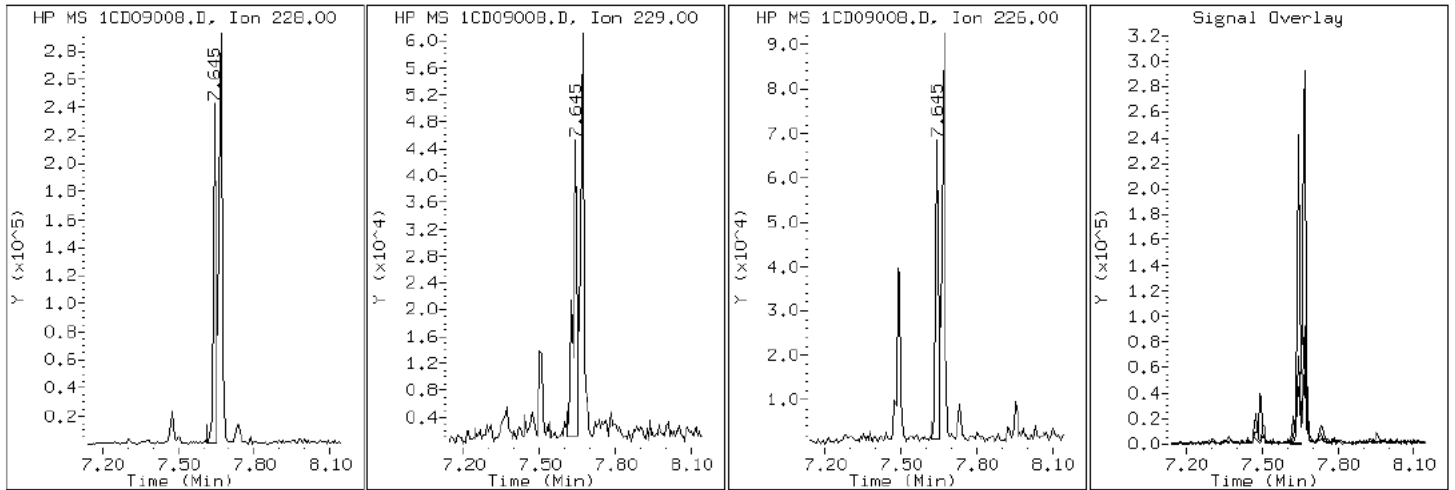
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

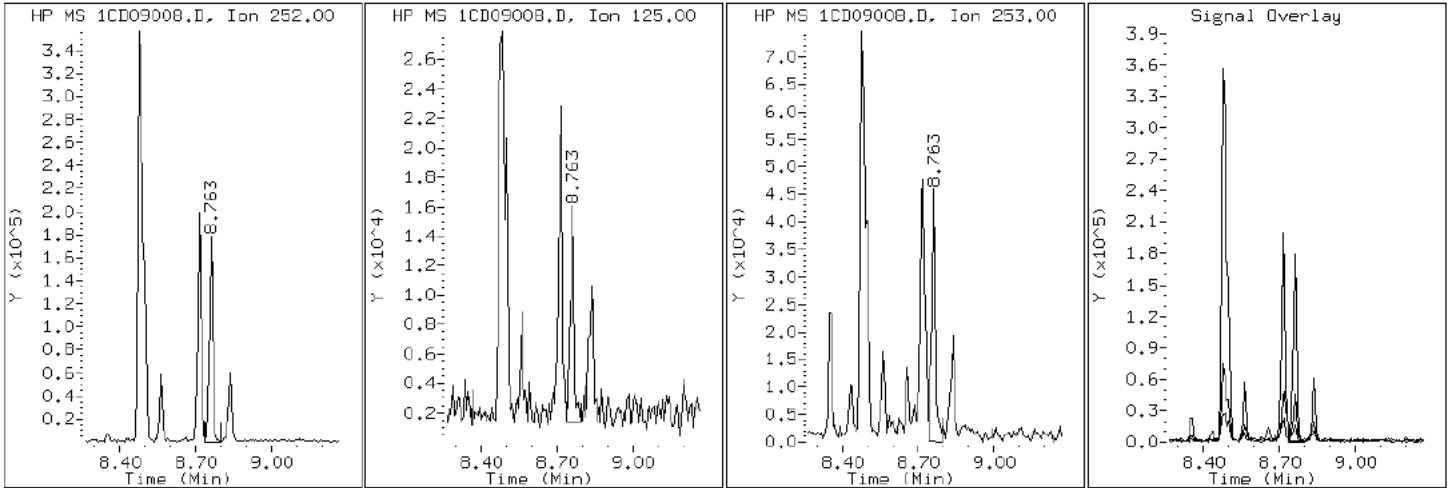
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

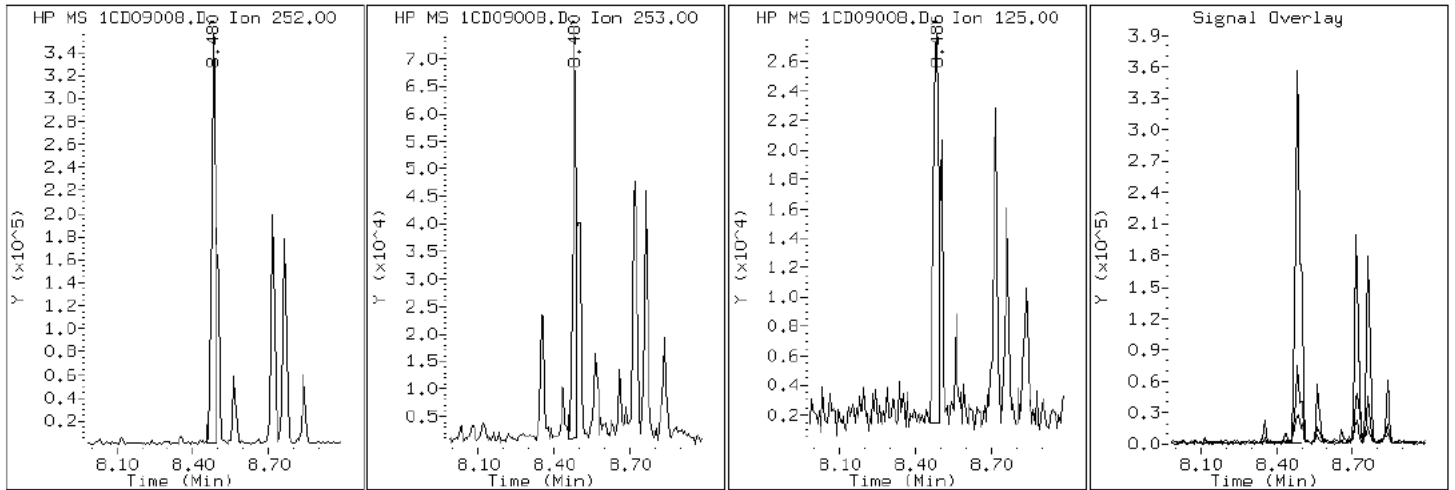
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

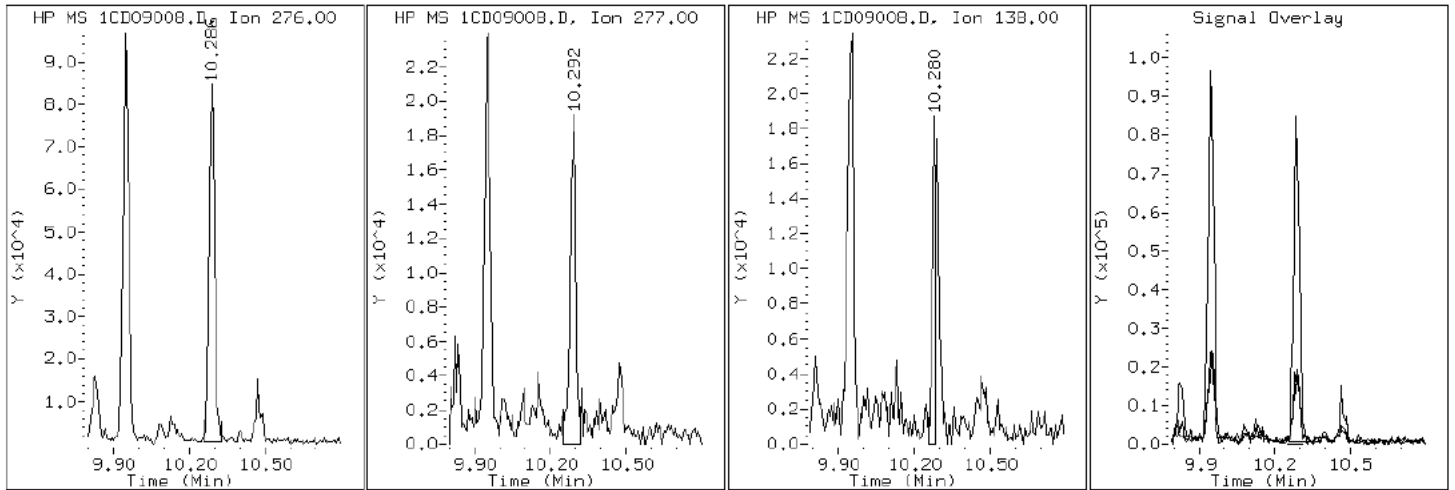
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

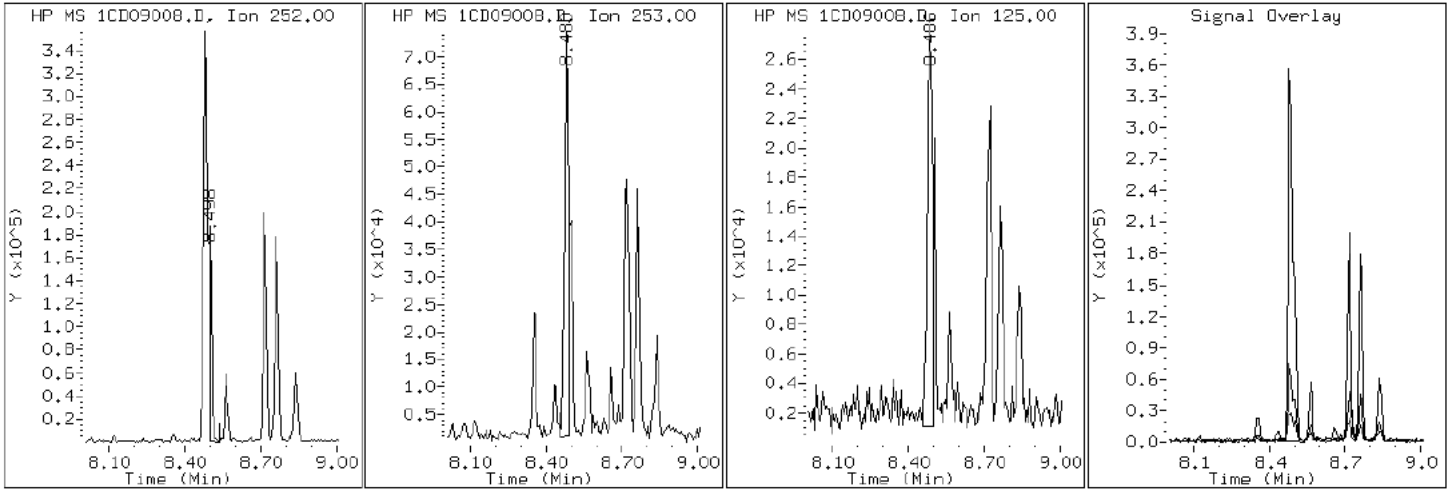
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

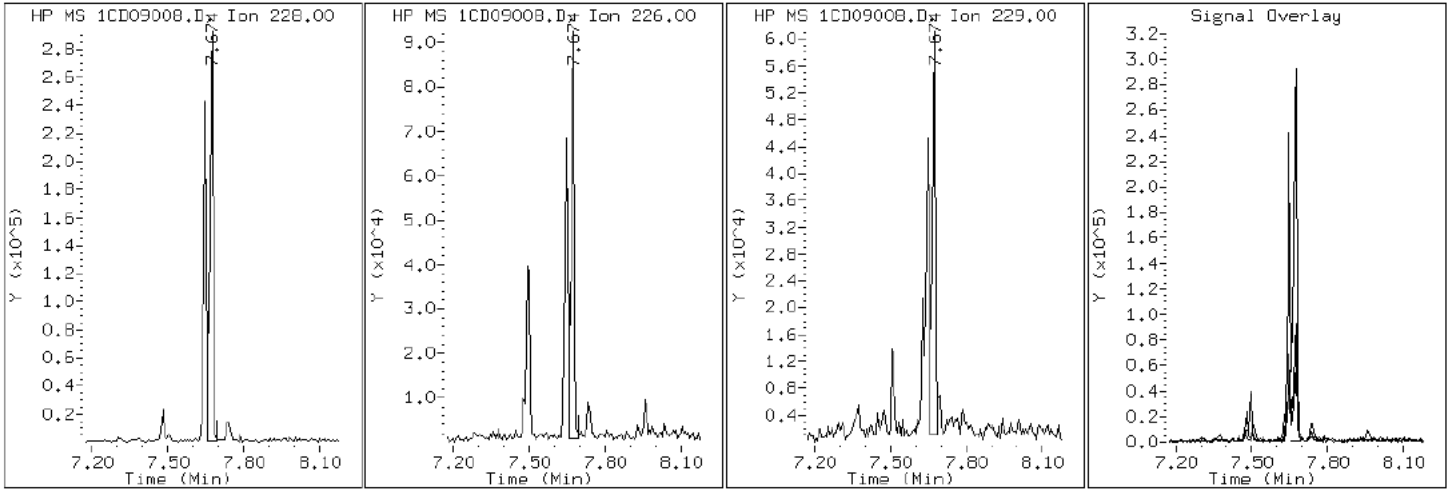
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

19 Chrysene





Data File: 1CD09008.D

Date: 09-APR-2013 13:23

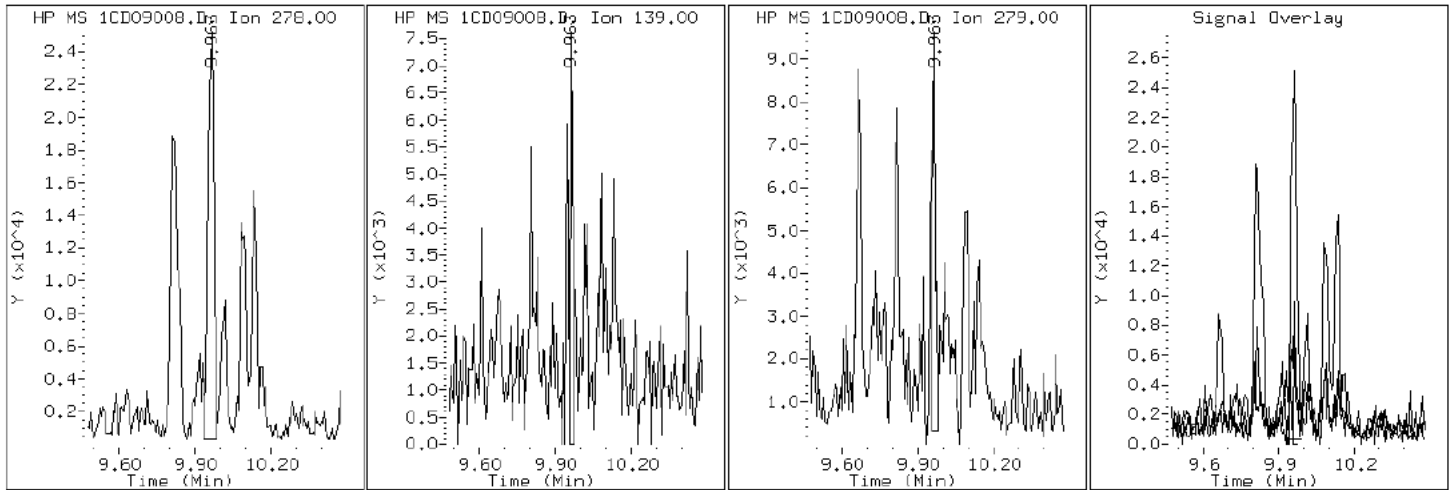
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

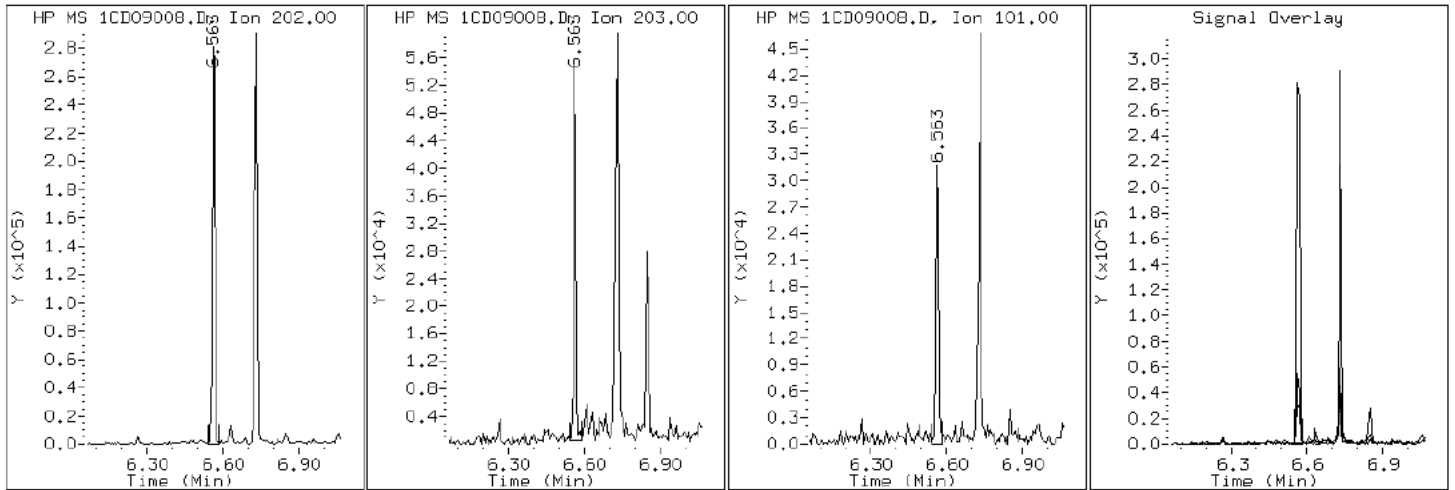
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

15 Fluoranthene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

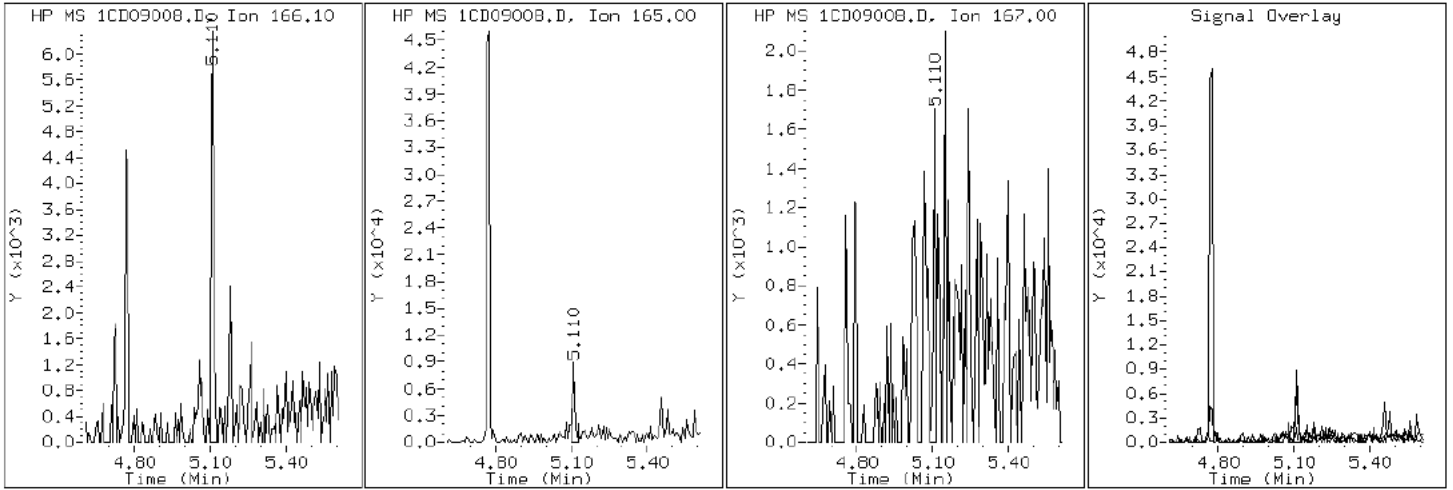
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

9 Fluorene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

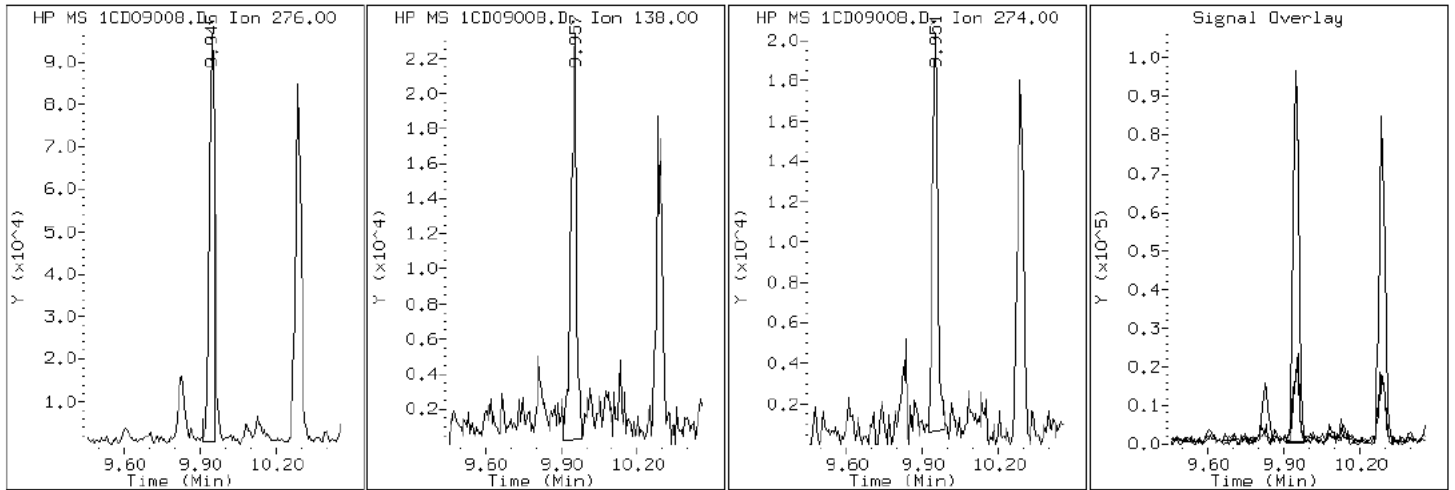
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

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



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

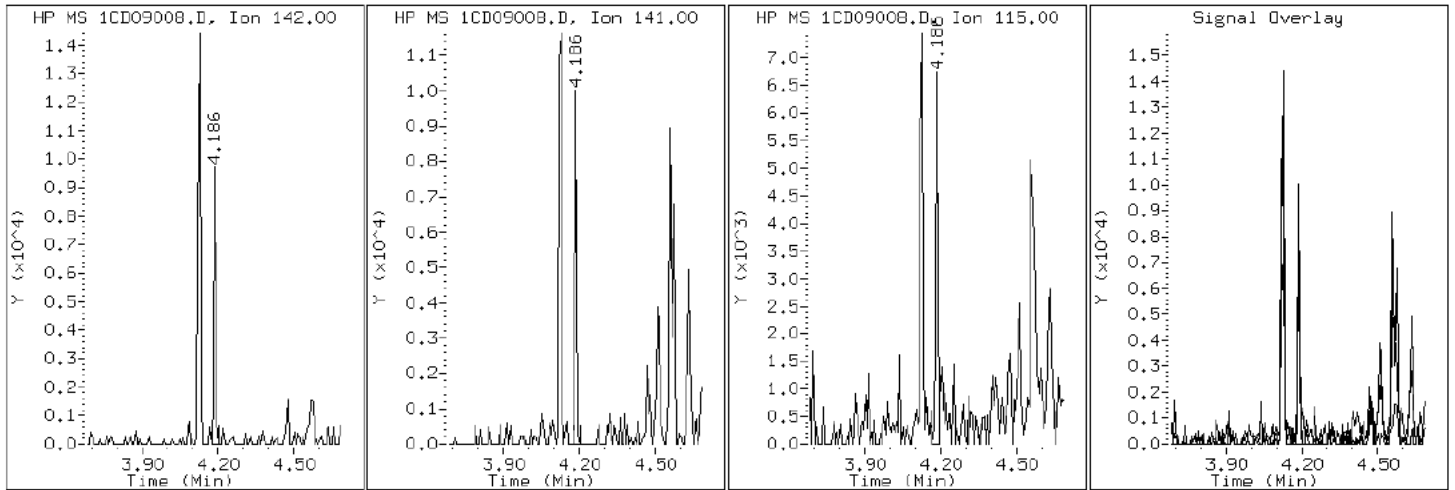
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

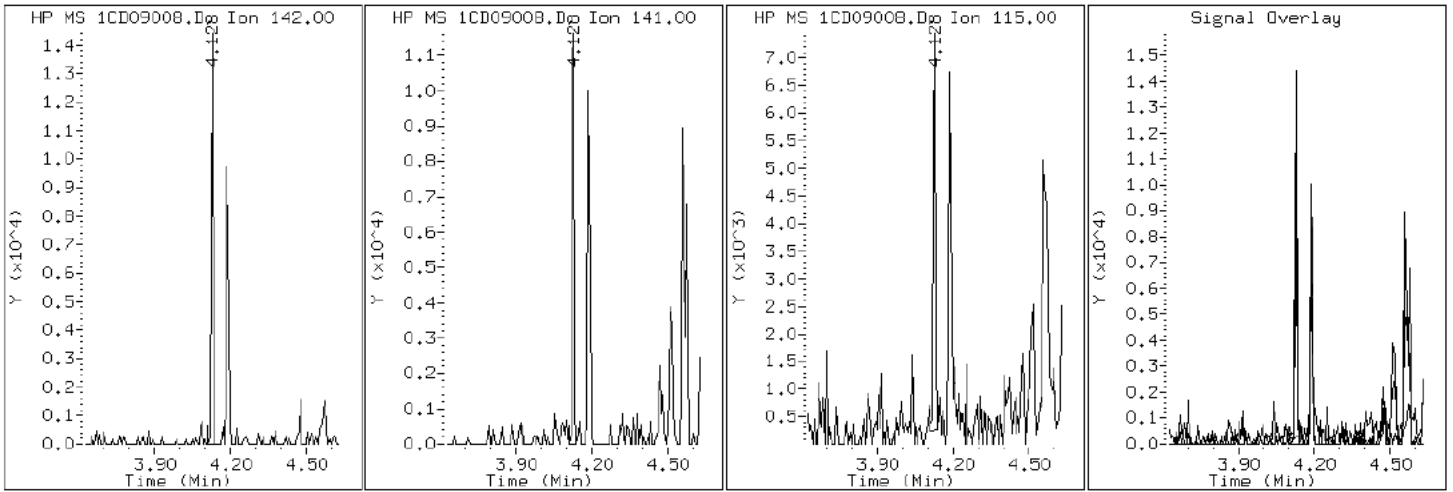
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

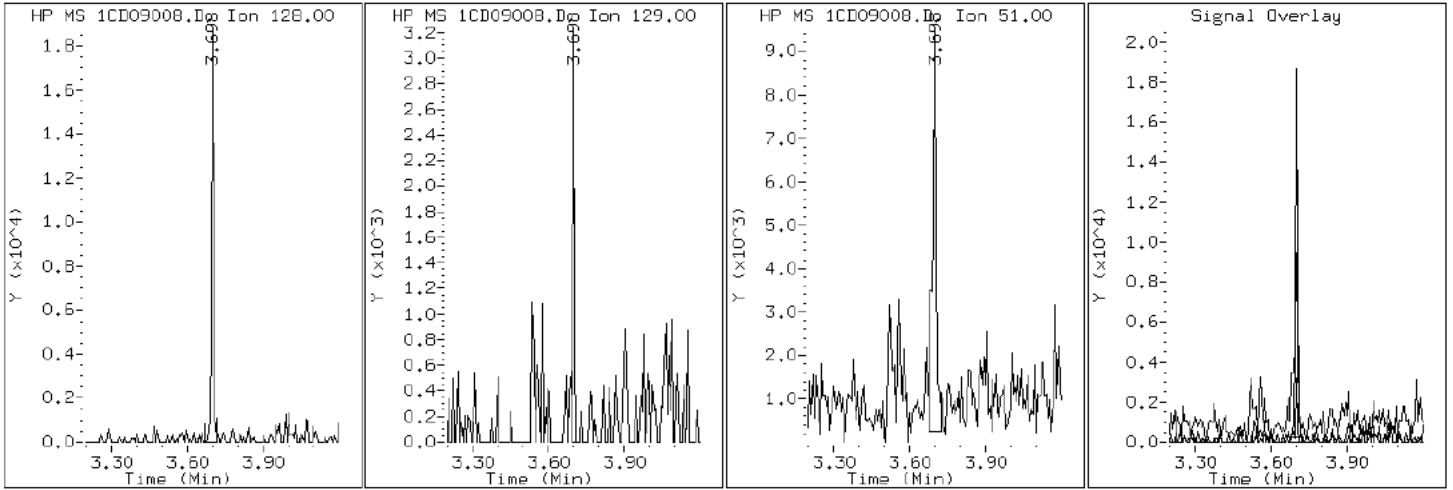
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

2 Naphthalene



Data File: 1CD09008.D

Date: 09-APR-2013 13:23

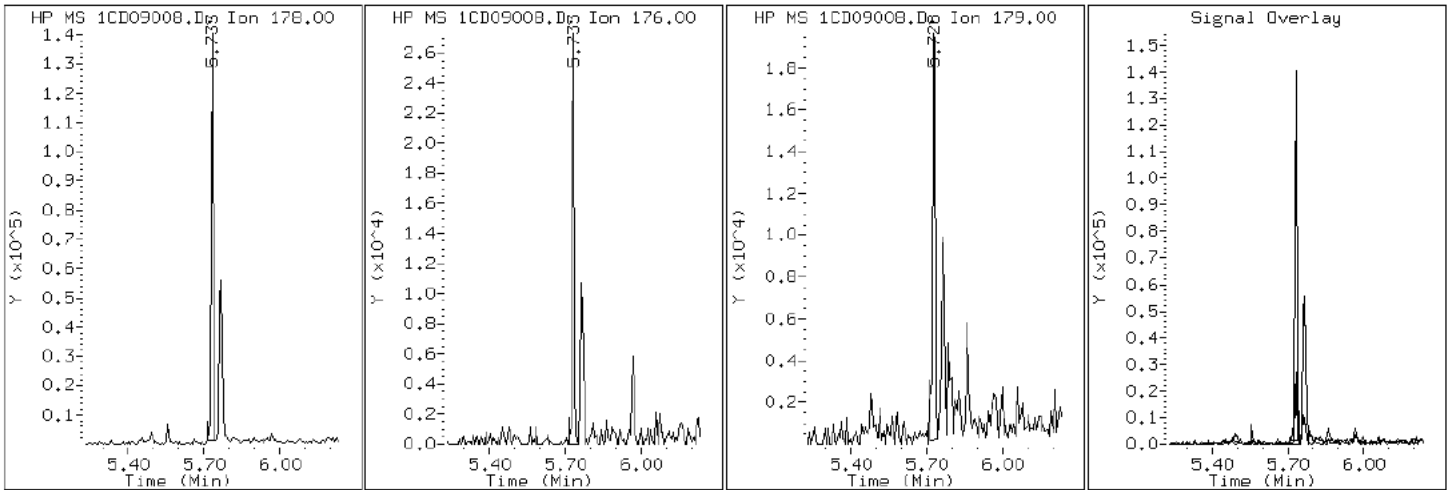
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

11 Phenanthrene





Data File: 1CD09008.D

Date: 09-APR-2013 13:23

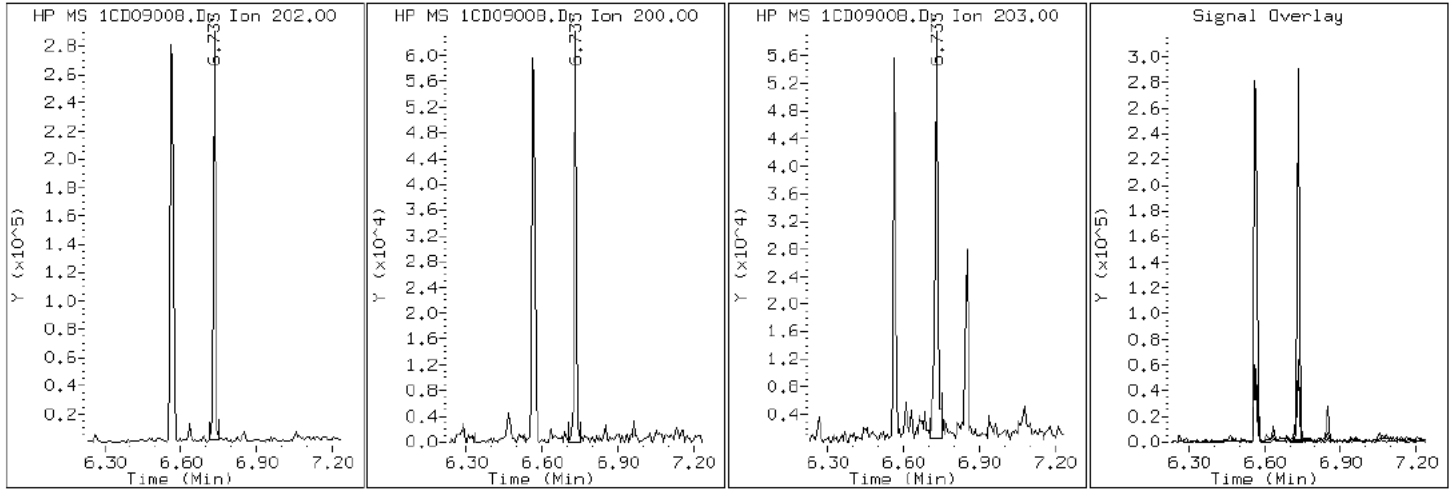
Client ID: CV0509KK-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-3-A

Operator: SCC

16 Pyrene

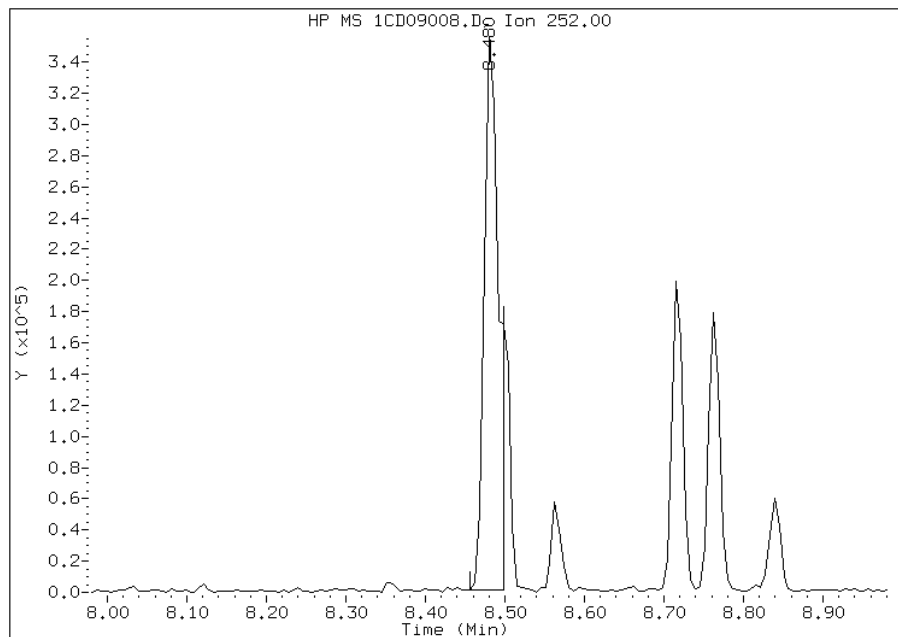


# Manual Integration Report

Data File: 1CD09008.D  
Inj. Date and Time: 09-APR-2013 13:23  
Instrument ID: BSMC5973.i  
Client ID: CV0509KK-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

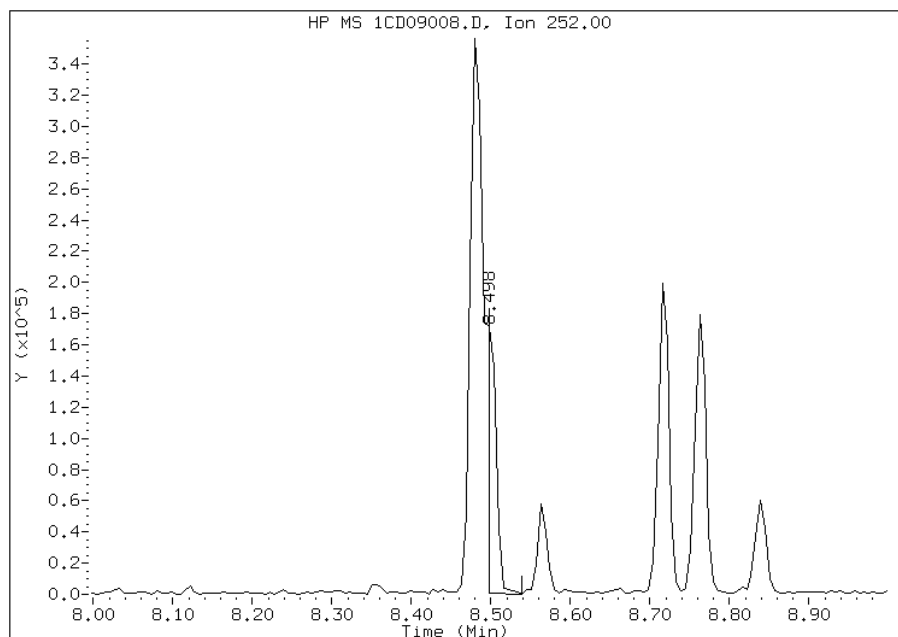
## Processing Integration Results

RT: 8.48  
Response: 448114  
Amount: 29  
Conc: 2295



## Manual Integration Results

RT: 8.50  
Response: 129587  
Amount: 8  
Conc: 664



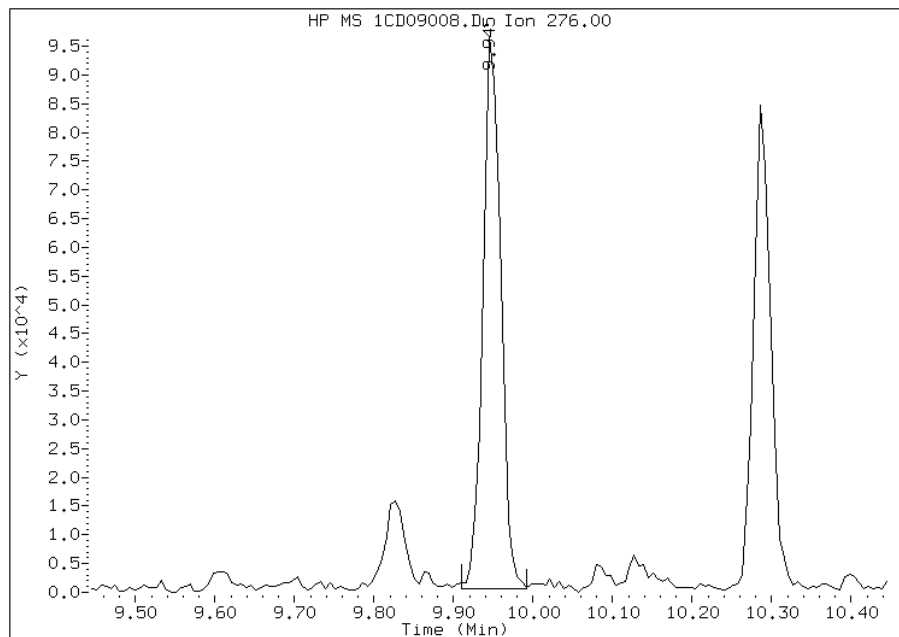
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:44  
Manual Integration Reason: Analyte Misidentified by the Data System

# Manual Integration Report

Data File: 1CD09008.D  
Inj. Date and Time: 09-APR-2013 13:23  
Instrument ID: BSMC5973.i  
Client ID: CV0509KK-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

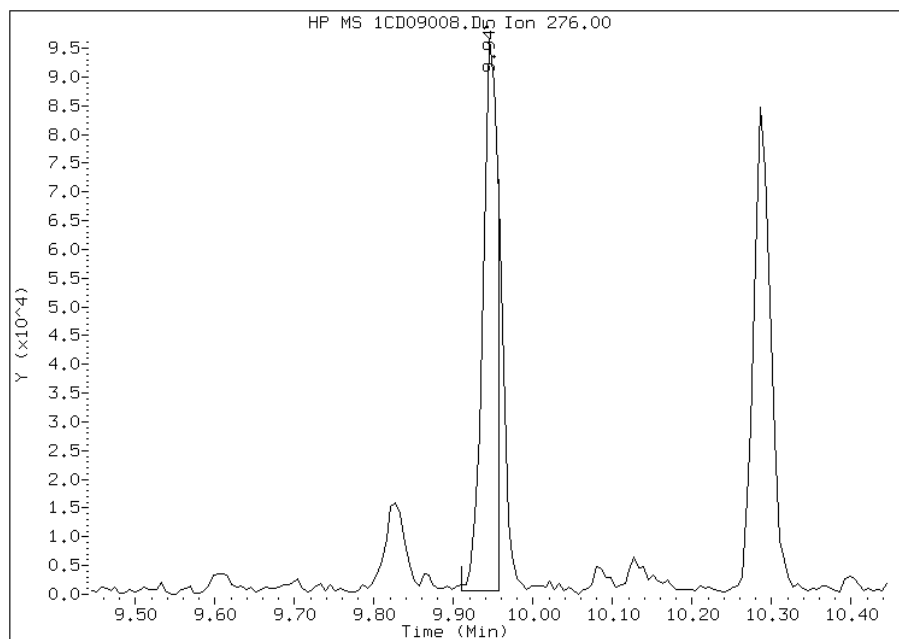
## Processing Integration Results

RT: 9.94  
Response: 148498  
Amount: 10  
Conc: 822



## Manual Integration Results

RT: 9.94  
Response: 127162  
Amount: 9  
Conc: 704



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509LL-CS Lab Sample ID: 680-88811-4  
 Matrix: Solid Lab File ID: 1CD08028.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:54  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.18(g) Date Analyzed: 04/08/2013 20:46  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 55.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	56	J	220	44
208-96-8	Acenaphthylene	30	J	89	11
120-12-7	Anthracene	110		19	9.3
56-55-3	Benzo[a]anthracene	360		18	8.7
50-32-8	Benzo[a]pyrene	270		23	12
205-99-2	Benzo[b]fluoranthene	440		27	14
191-24-2	Benzo[g,h,i]perylene	180		44	9.8
207-08-9	Benzo[k]fluoranthene	210		18	8.0
218-01-9	Chrysene	350		20	10
53-70-3	Dibenz(a,h)anthracene	61		44	9.1
206-44-0	Fluoranthene	620		44	8.9
86-73-7	Fluorene	62		44	9.1
193-39-5	Indeno[1,2,3-cd]pyrene	150		44	16
90-12-0	1-Methylnaphthalene	59	J	89	9.8
91-57-6	2-Methylnaphthalene	100		89	16
91-20-3	Naphthalene	160		89	9.8
85-01-8	Phenanthrene	490		18	8.7
129-00-0	Pyrene	620		44	8.2

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08028.D  
 Lab Smp Id: 680-88811-A-4-A Client Smp ID: CV0509LL-CS  
 Inj Date : 08-APR-2013 20:46  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-4-A  
 Misc Info : 680-88811-A-4-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\A-BFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 28  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	55.496	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	568842	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	412426	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	768707	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	55372	5.13850	760.6068
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	800642	40.0000	
* 23 Perylene-d12	264		8.827	8.821	(1.000)	752643	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	15887	1.08736	160.9528
3 2-Methylnaphthalene	142		4.133	4.127	(1.119)	6709	0.67457	99.8500
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	3580	0.40004	59.2141
5 Acenaphthylene	152		4.692	4.686	(0.983)	3408	0.19966	29.5534
7 Acenaphthene	154		4.798	4.798	(1.005)	4017	0.37996	56.2420
9 Fluorene	166		5.116	5.115	(1.071)	5868	0.41635	61.6293
11 Phenanthrene	178		5.739	5.739	(1.003)	74567	3.33062	493.0029
12 Anthracene	178		5.769	5.768	(1.008)	16577	0.73042	108.1176

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	12065	0.62050	91.8472
15 Fluoranthene	202	6.568	6.568	(1.148)	104311	4.21883	624.4772
16 Pyrene	202	6.739	6.739	(0.880)	93379	4.21036	623.2227
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	52525	2.39978	355.2185
19 Chrysene	228	7.674	7.674	(1.002)	53565	2.34782	347.5271
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	63268	2.97342	440.1295(M)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.963)	28899	1.40426	207.8604(QMH)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	35952	1.79467	265.6500
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	19651	1.03279	152.8743(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	7279	0.41413	61.3000(MH)
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	24177	1.24499	184.2843

QC Flag Legend

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

Data File: 1CD08028.D

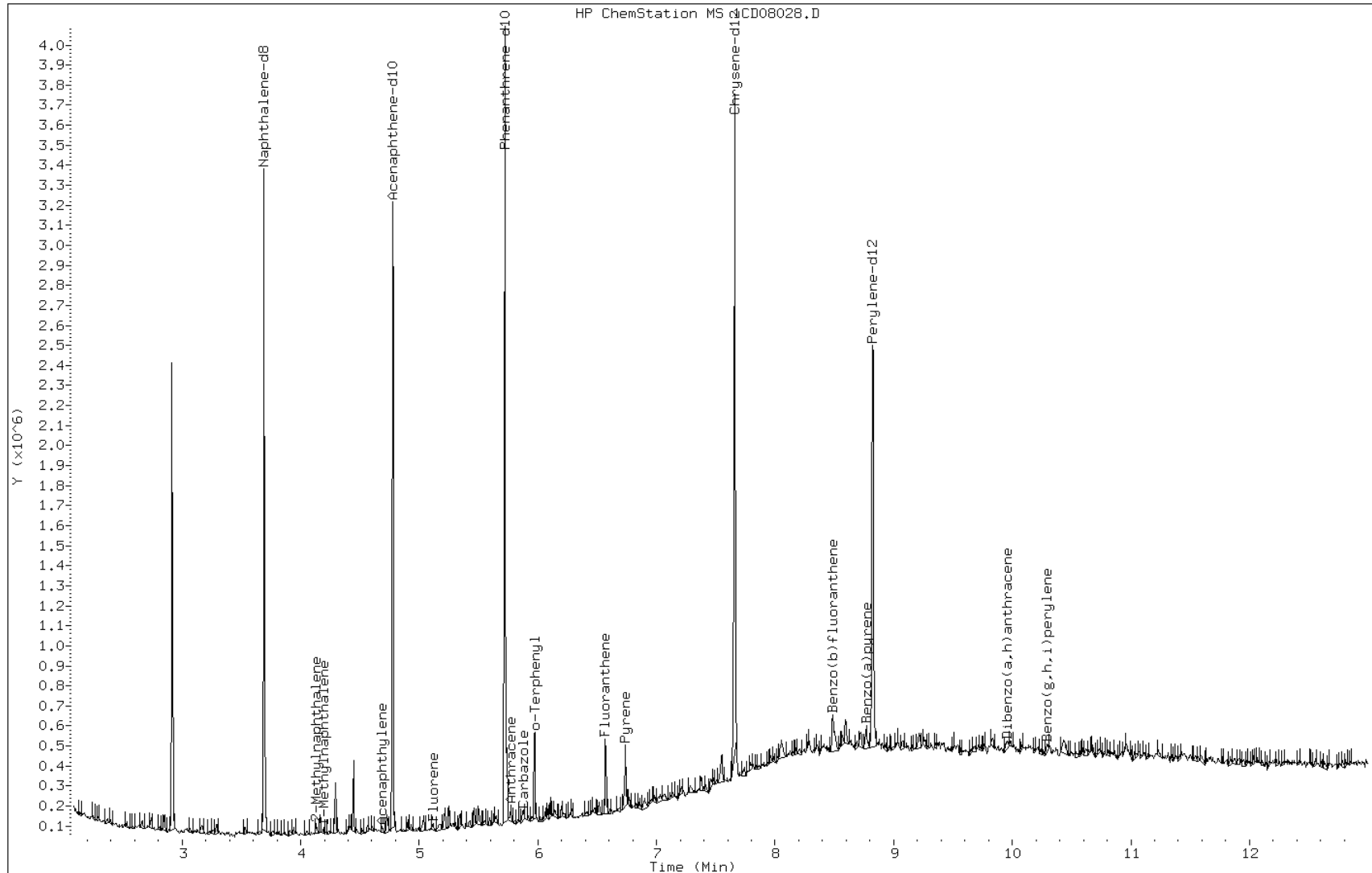
Date: 08-APR-2013 20:46

Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

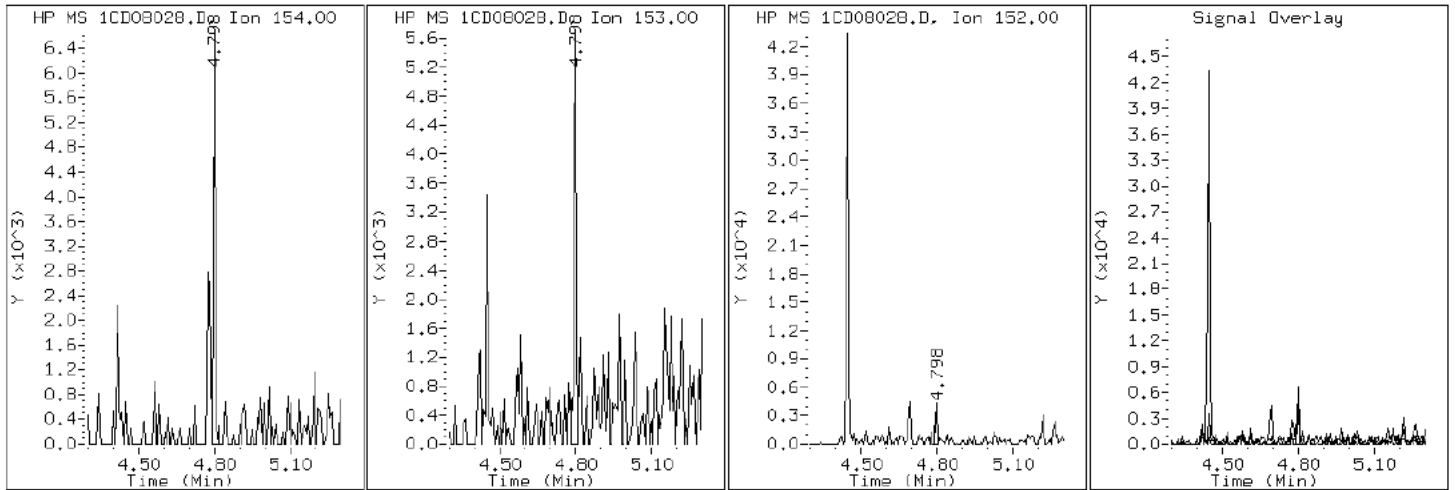
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

7 Acenaphthene





Data File: 1CD08028.D

Date: 08-APR-2013 20:46

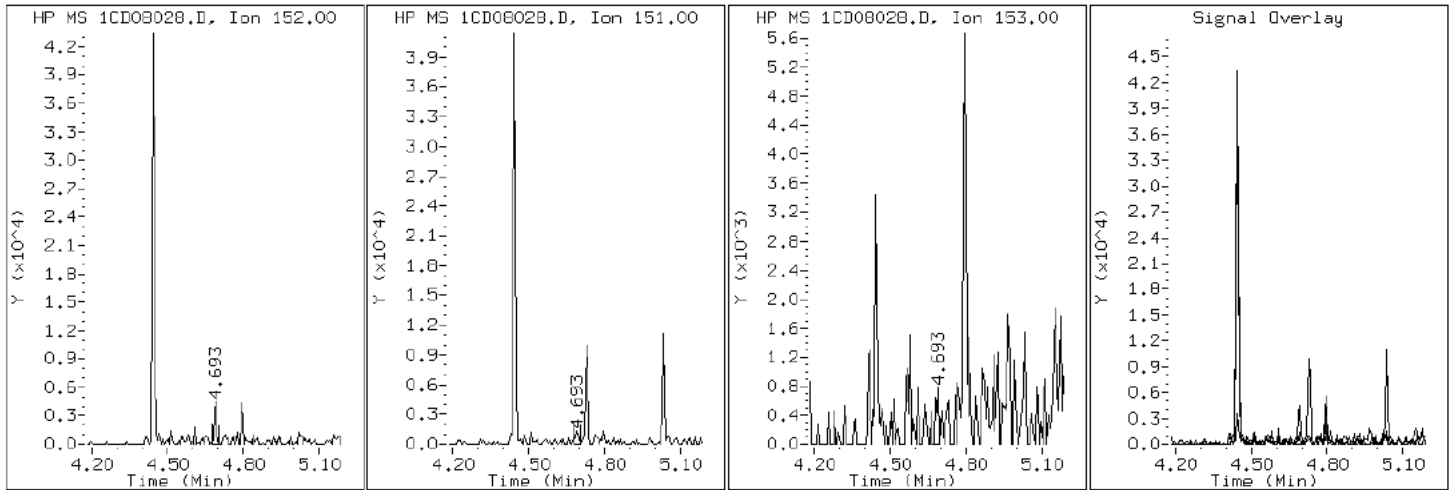
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

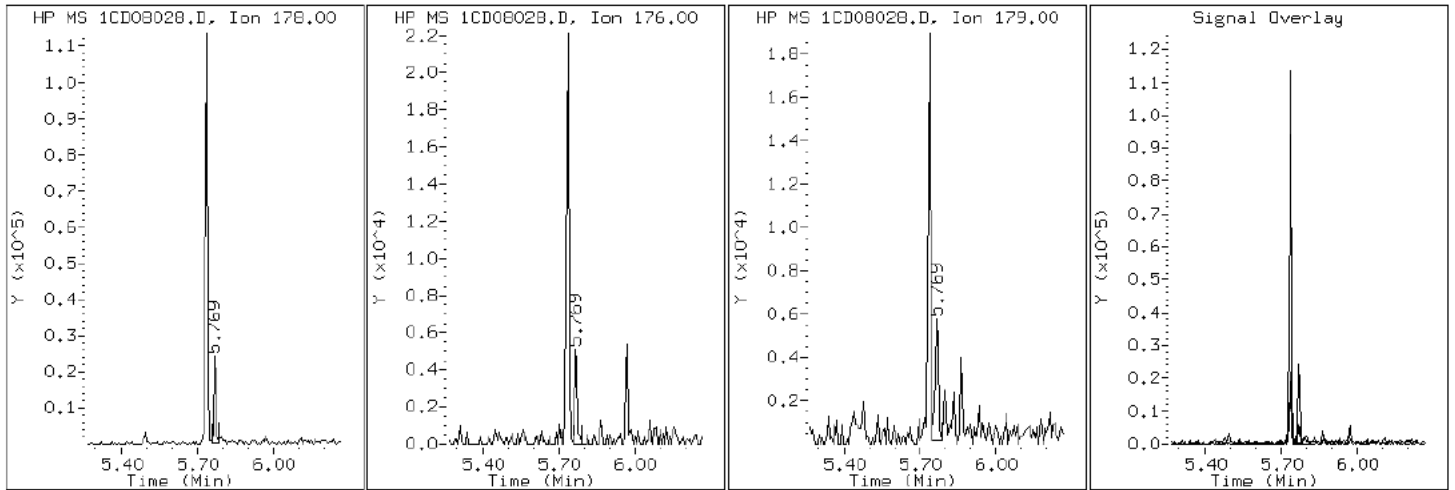
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

12 Anthracene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

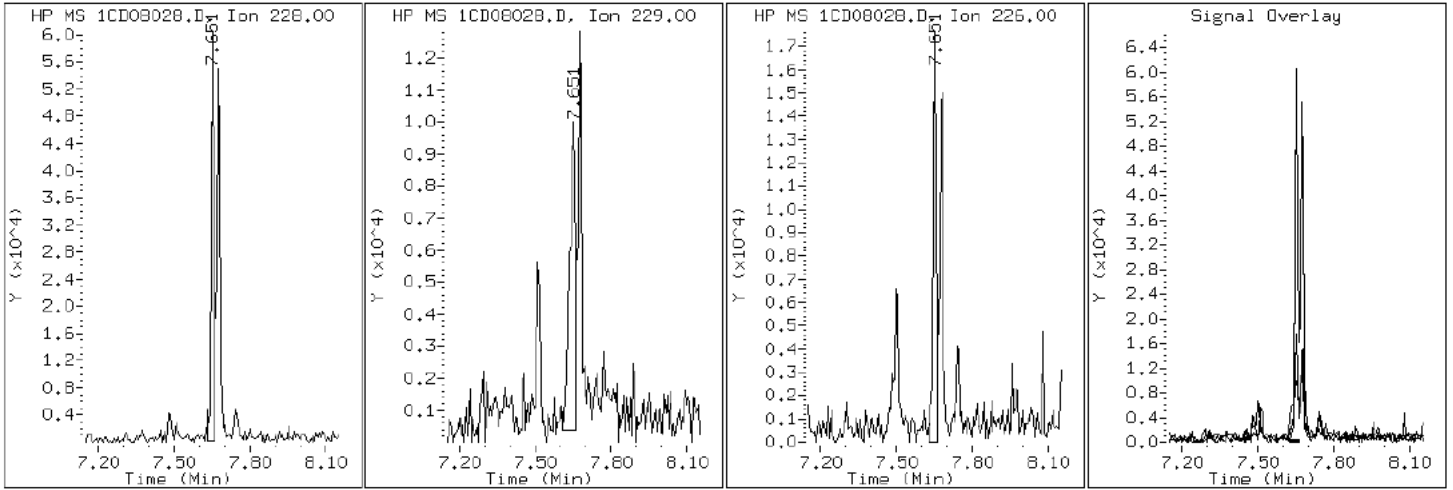
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

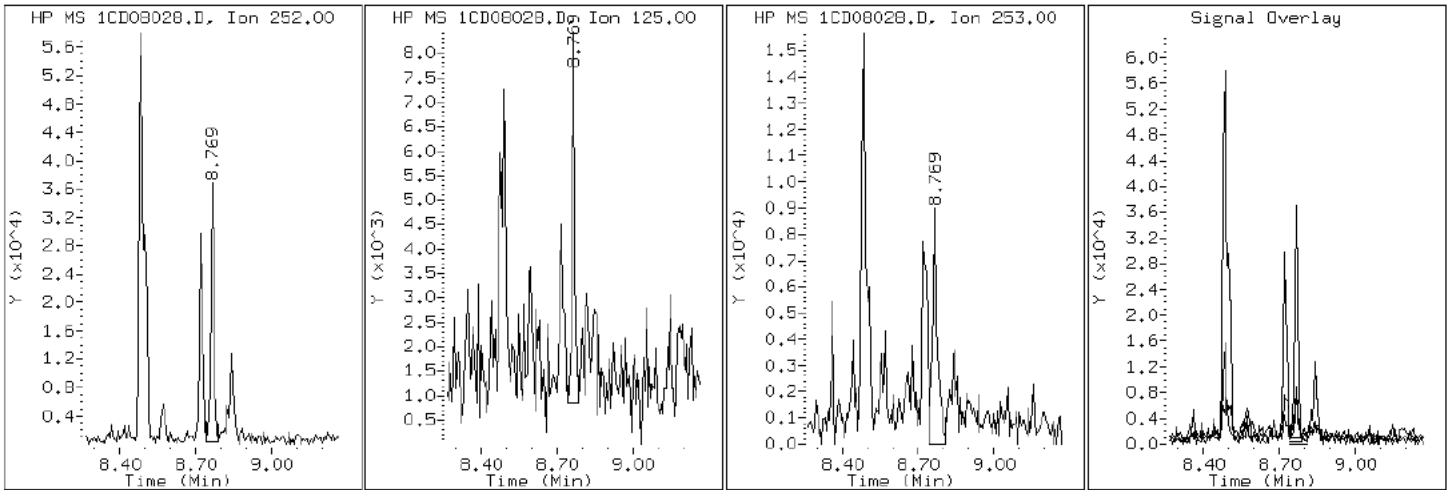
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

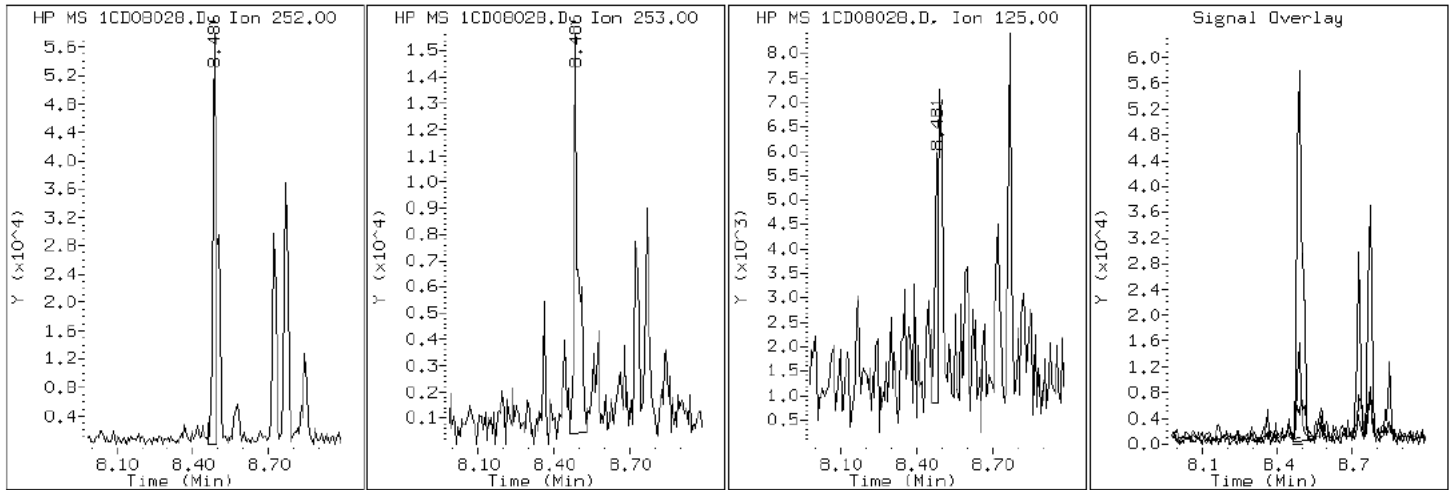
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

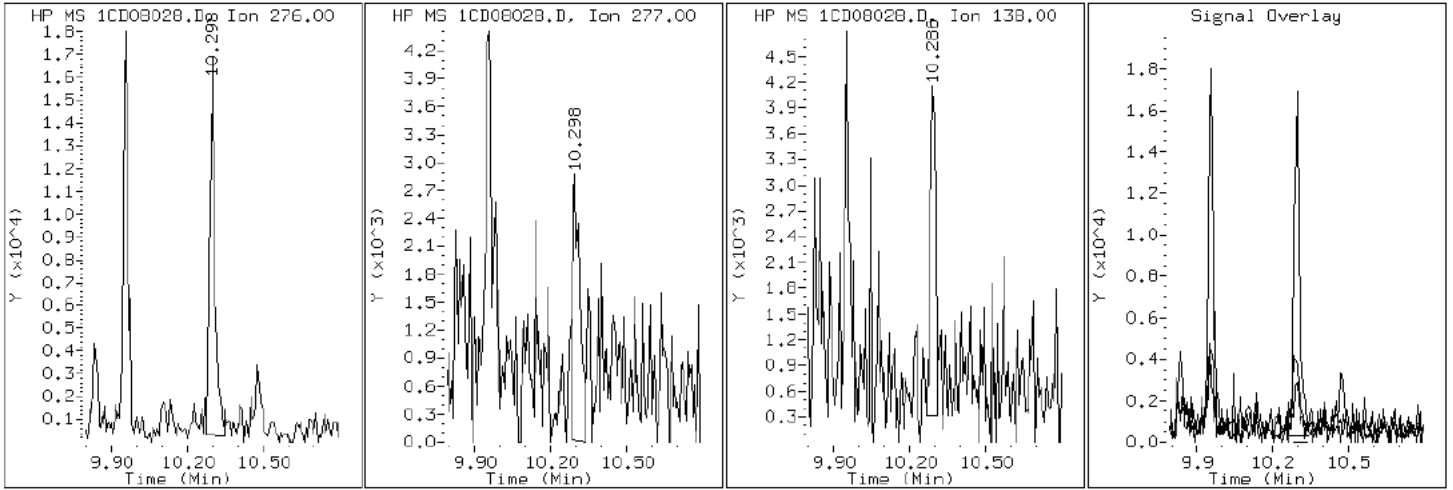
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

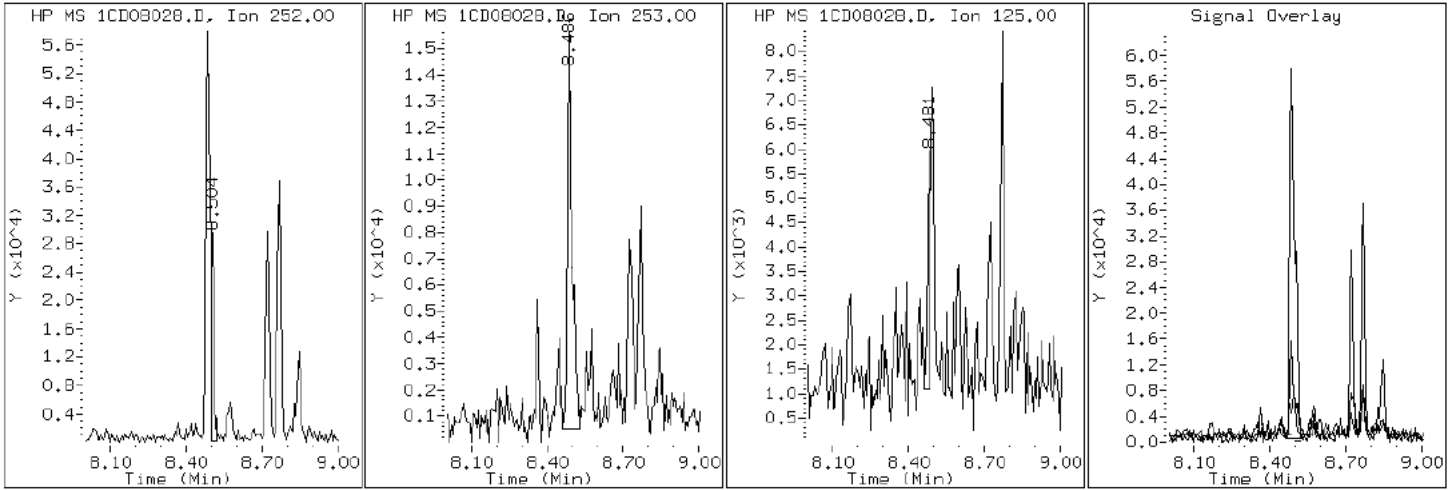
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

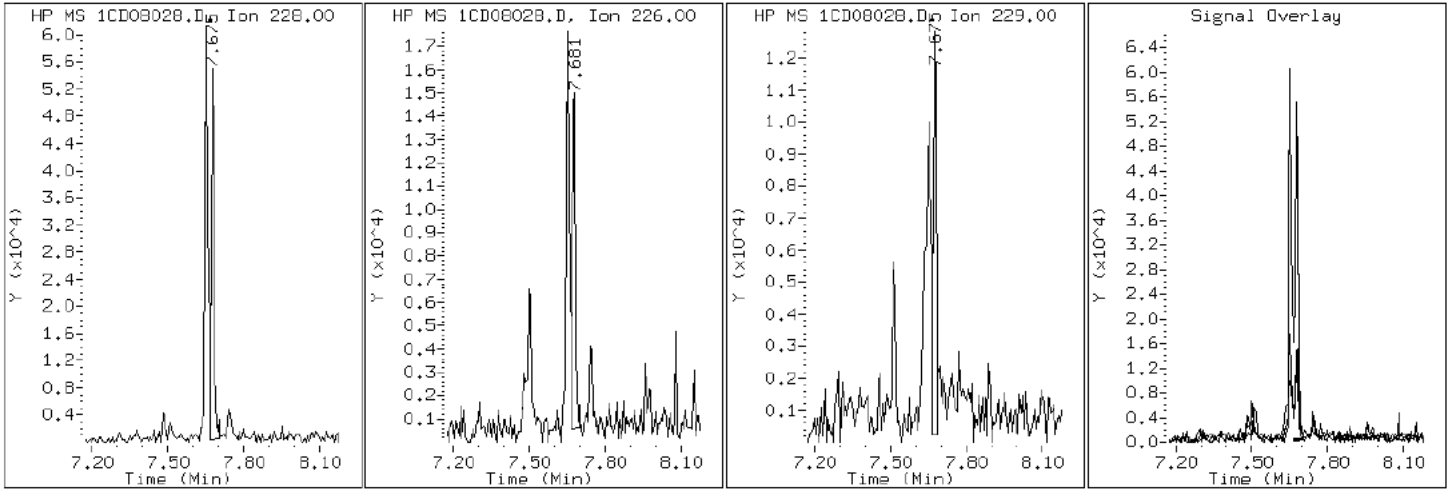
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

19 Chrysene





Data File: 1CD08028.D

Date: 08-APR-2013 20:46

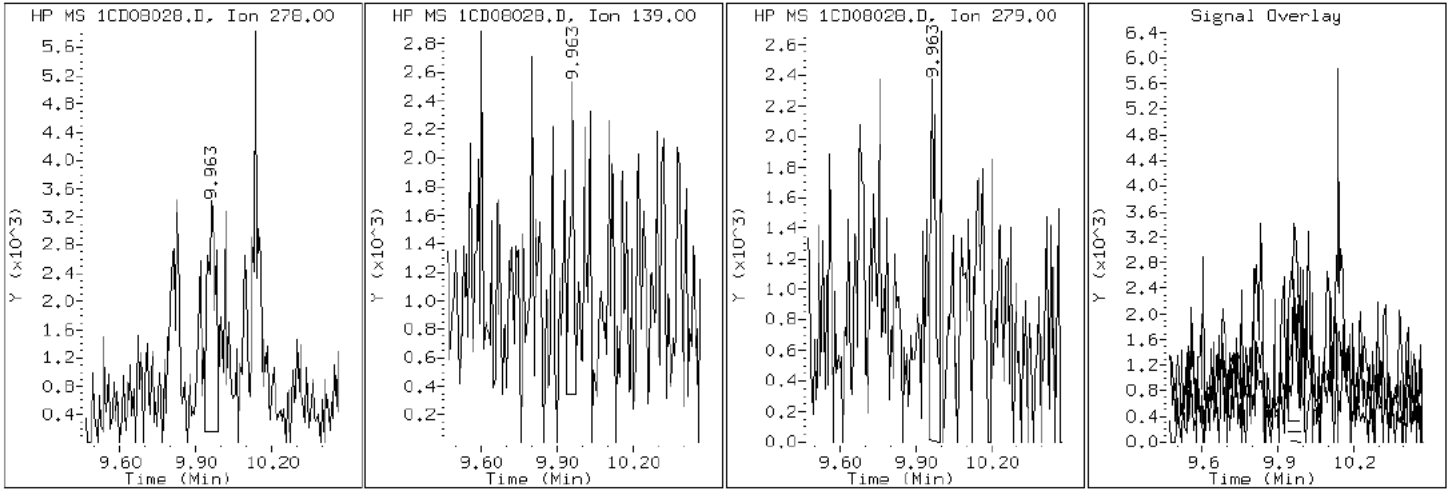
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

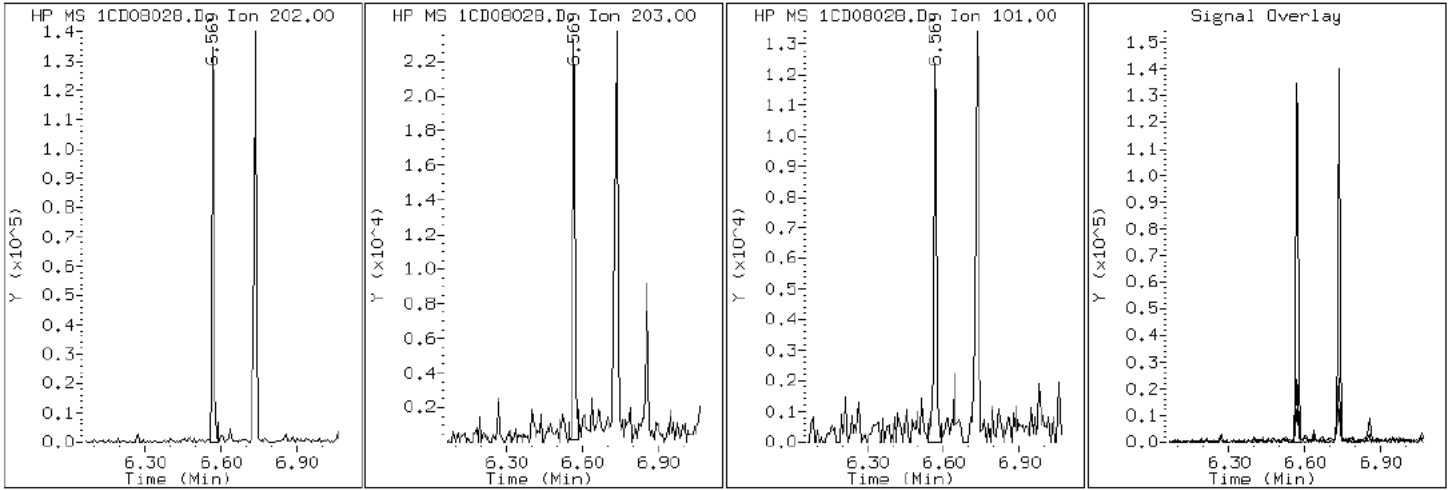
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

15 Fluoranthene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

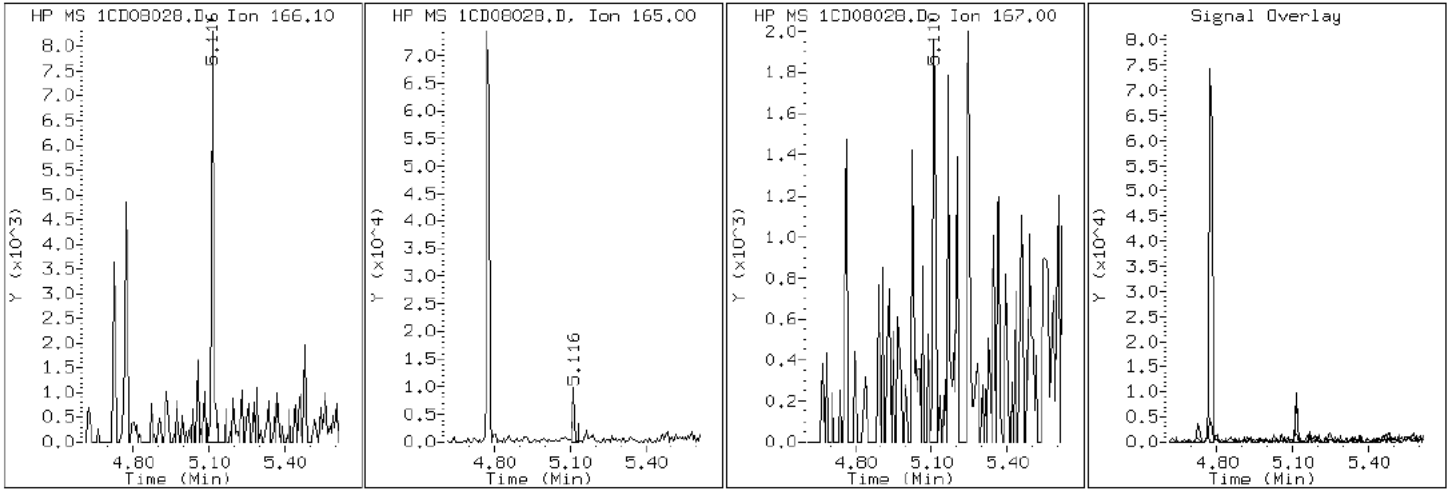
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

9 Fluorene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

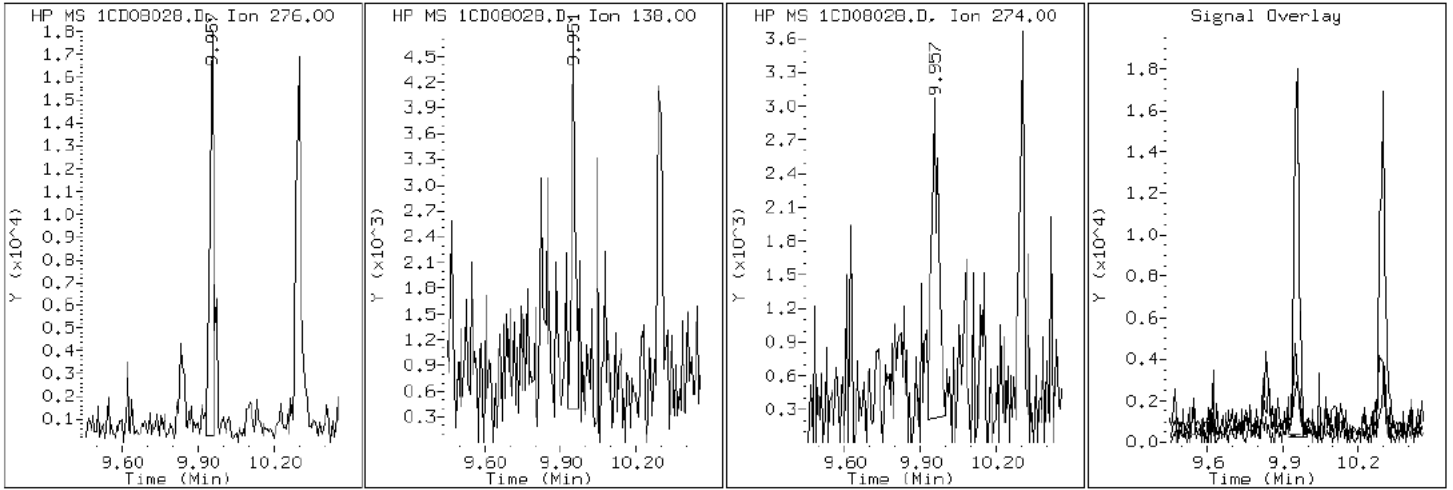
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

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



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

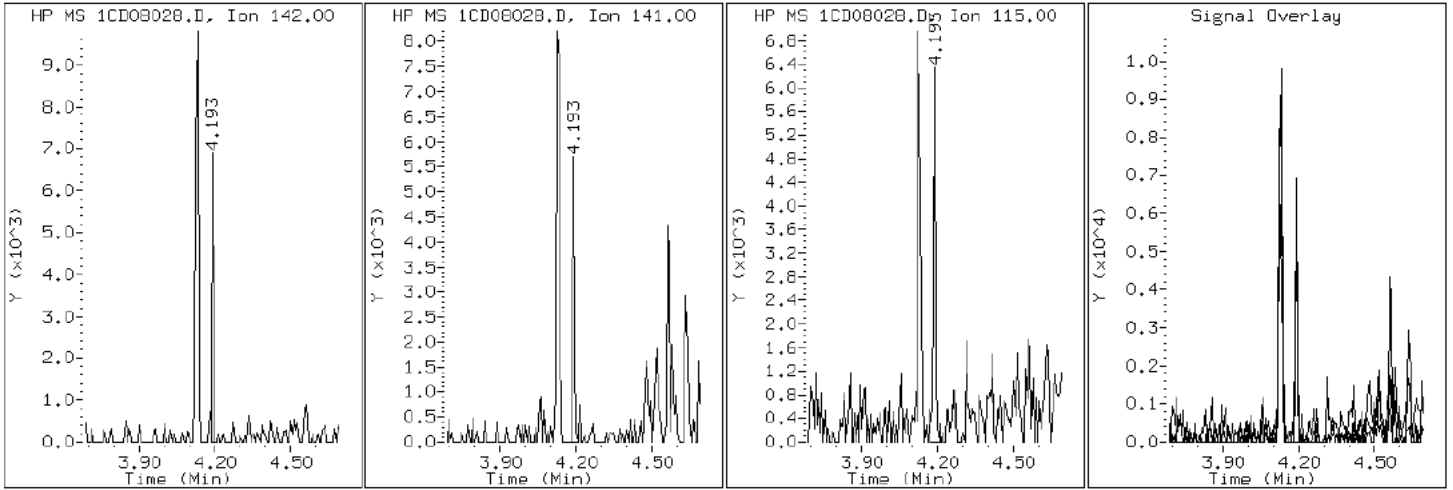
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

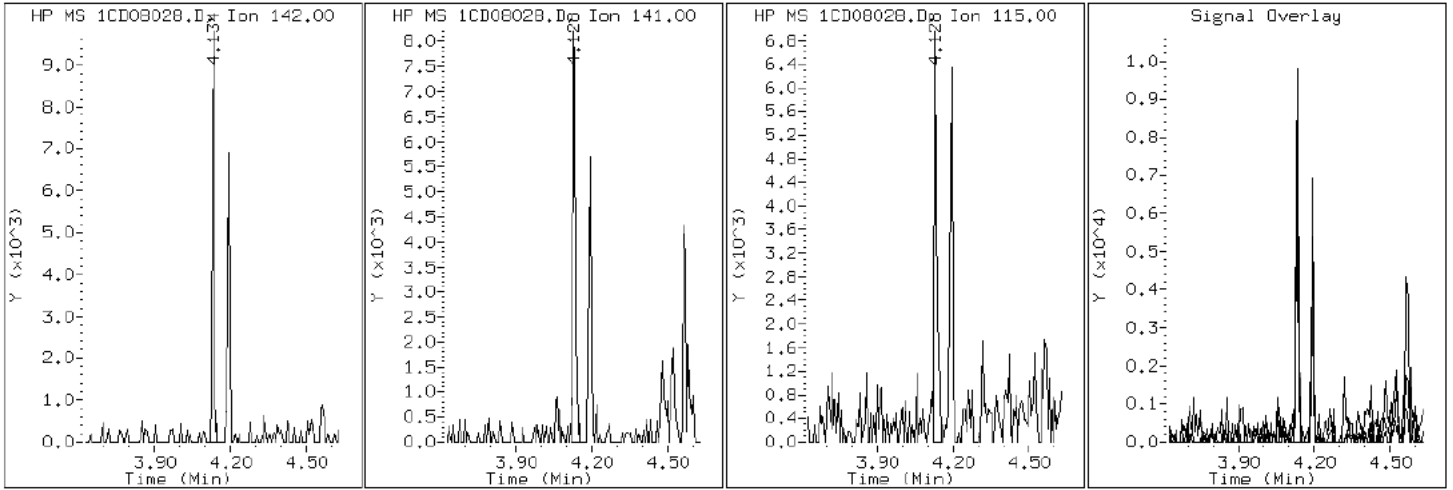
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

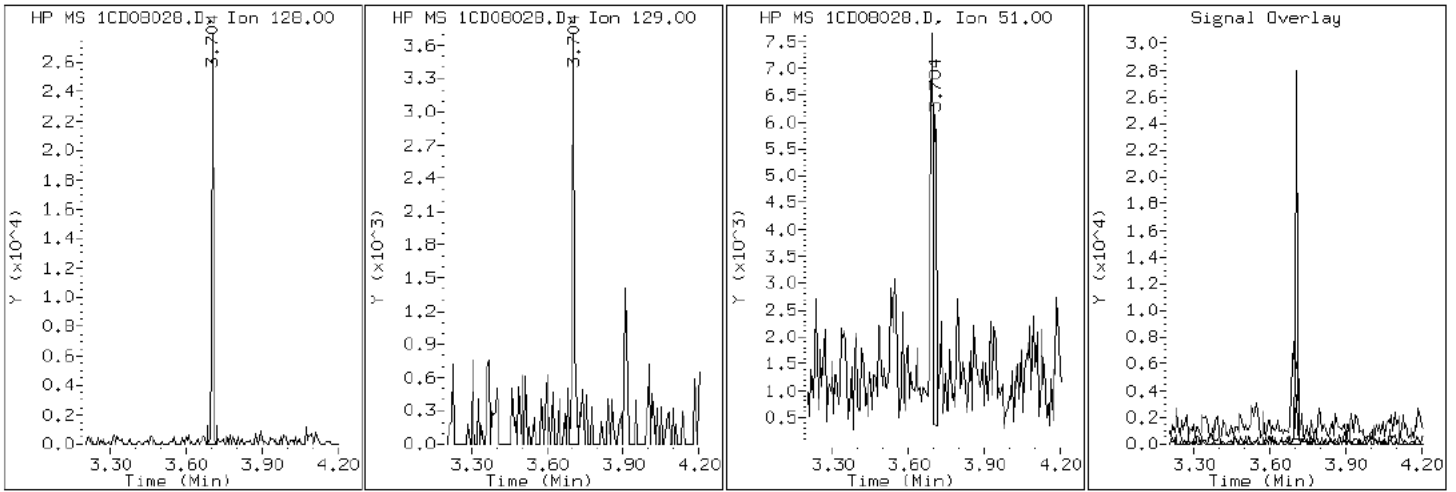
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

2 Naphthalene



Data File: 1CD08028.D

Date: 08-APR-2013 20:46

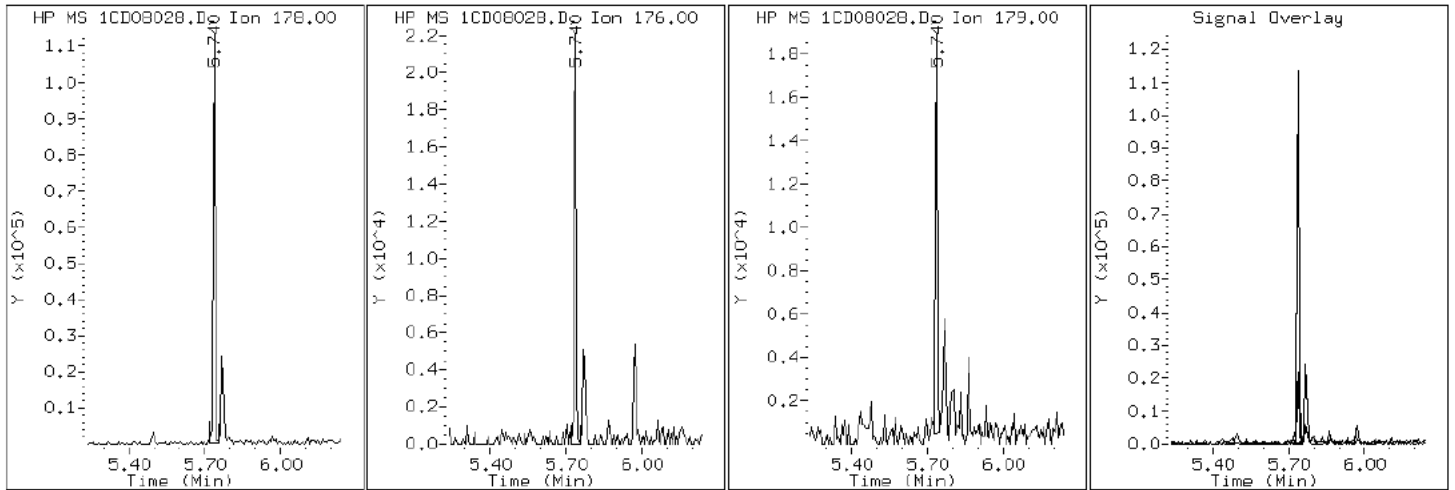
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

11 Phenanthrene





Data File: 1CD08028.D

Date: 08-APR-2013 20:46

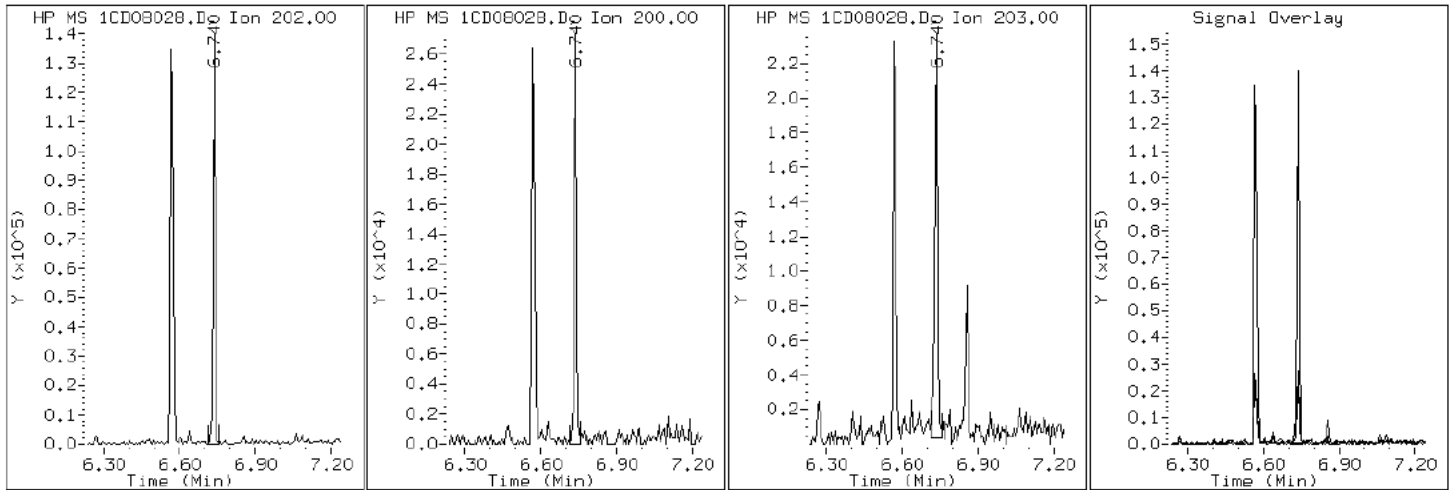
Client ID: CV0509LL-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-4-A

Operator: TP

16 Pyrene

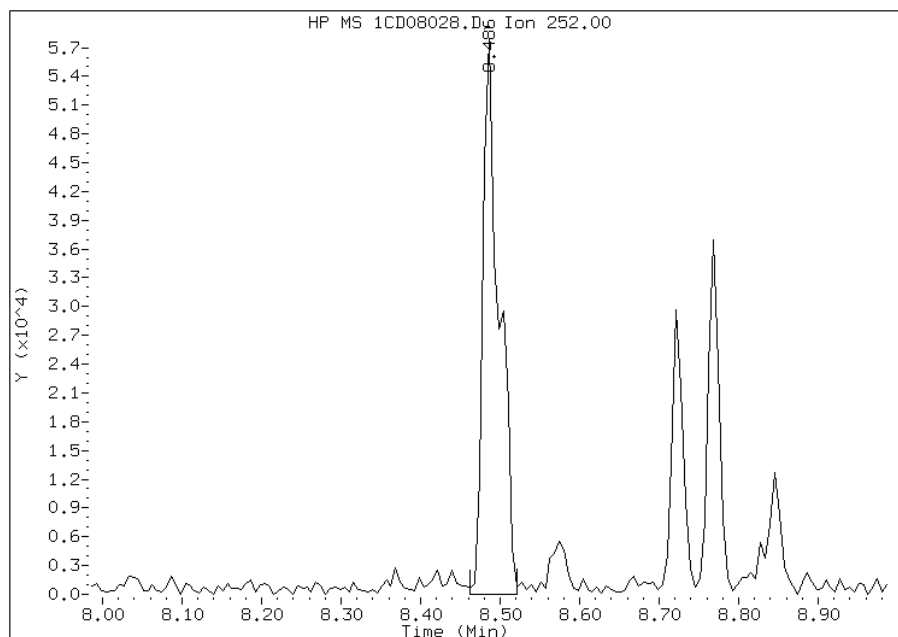


# Manual Integration Report

Data File: 1CD08028.D  
Inj. Date and Time: 08-APR-2013 20:46  
Instrument ID: BSMC5973.i  
Client ID: CV0509LL-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

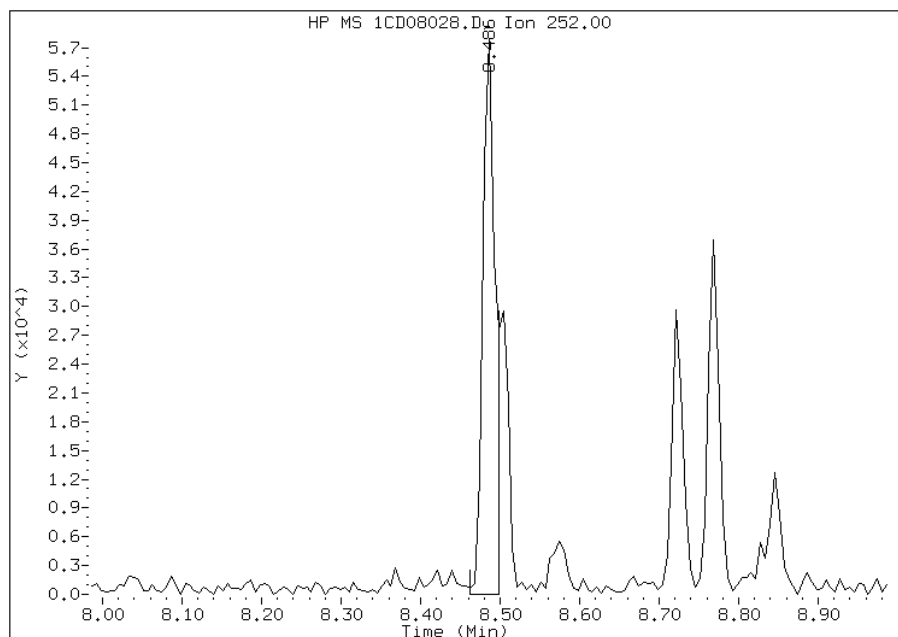
## Processing Integration Results

RT: 8.49  
Response: 82700  
Amount: 4  
Conc: 575



## Manual Integration Results

RT: 8.49  
Response: 63268  
Amount: 3  
Conc: 440



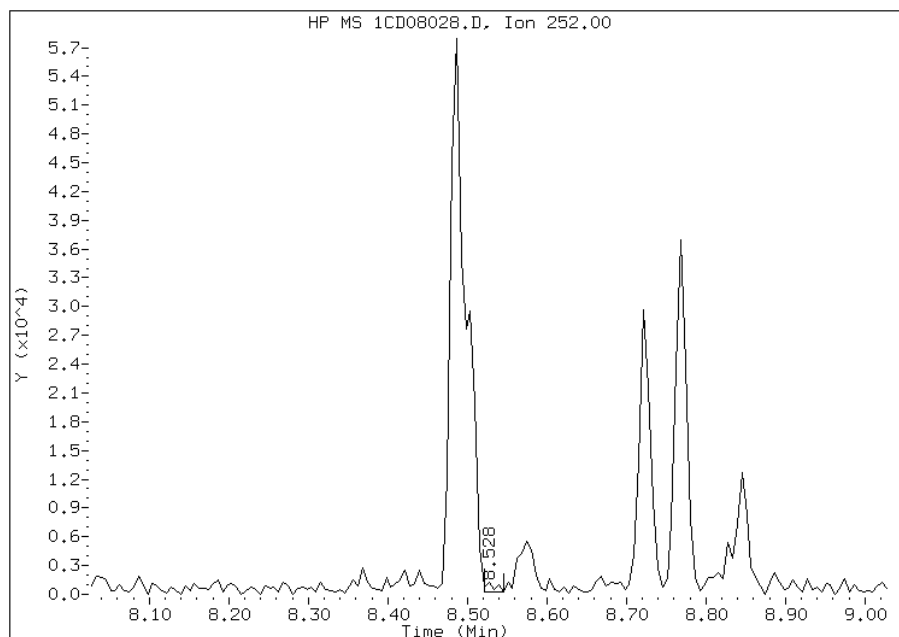
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:01  
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD08028.D  
Inj. Date and Time: 08-APR-2013 20:46  
Instrument ID: BSMC5973.i  
Client ID: CV0509LL-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

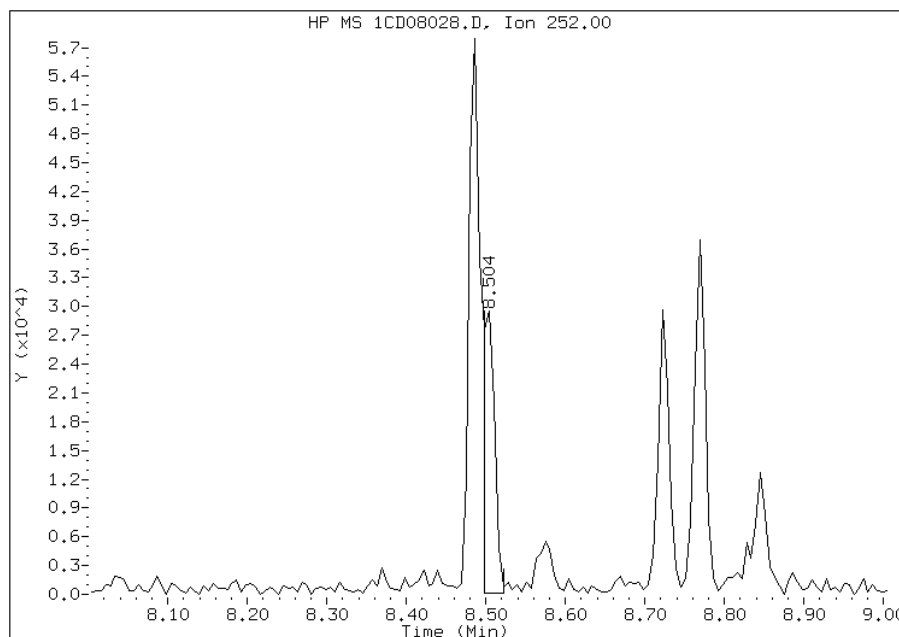
Processing Integration Results

RT: 8.53  
Response: 908  
Amount: 0  
Conc: 7



Manual Integration Results

RT: 8.50  
Response: 28899  
Amount: 1  
Conc: 208



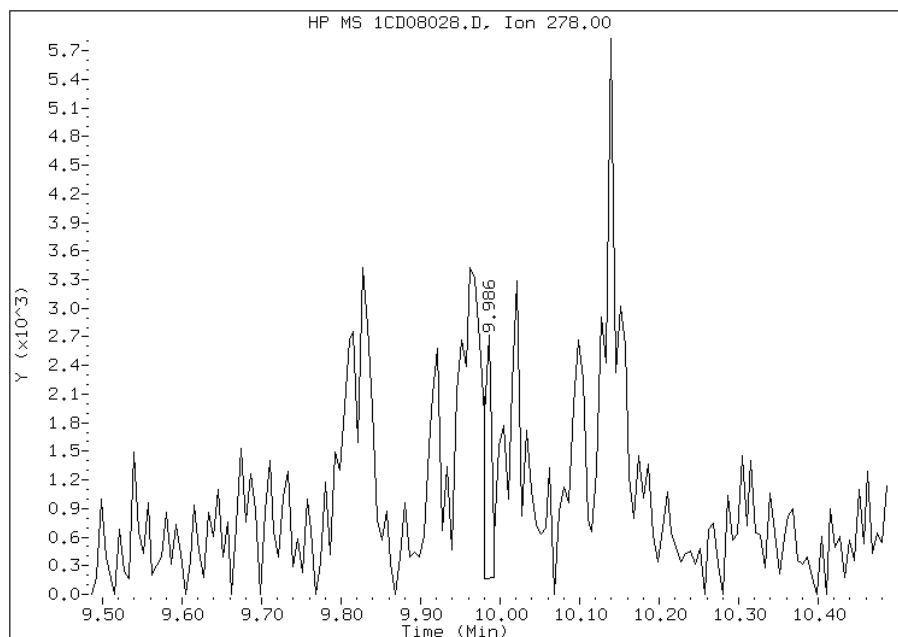
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:01  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08028.D  
Inj. Date and Time: 08-APR-2013 20:46  
Instrument ID: BSMC5973.i  
Client ID: CV0509LL-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

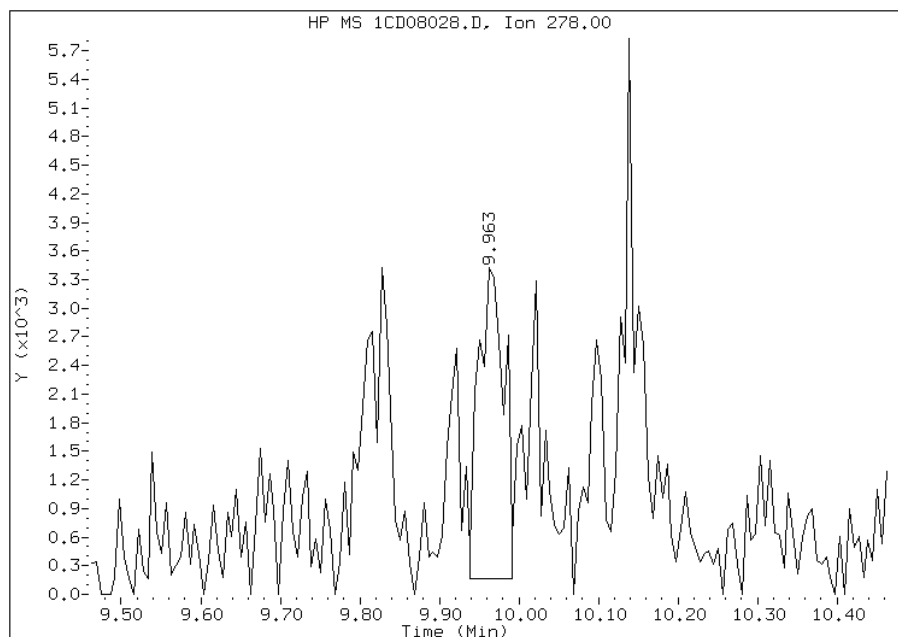
## Processing Integration Results

RT: 9.99  
Response: 1654  
Amount: 0  
Conc: 14



## Manual Integration Results

RT: 9.96  
Response: 7279  
Amount: 0  
Conc: 61



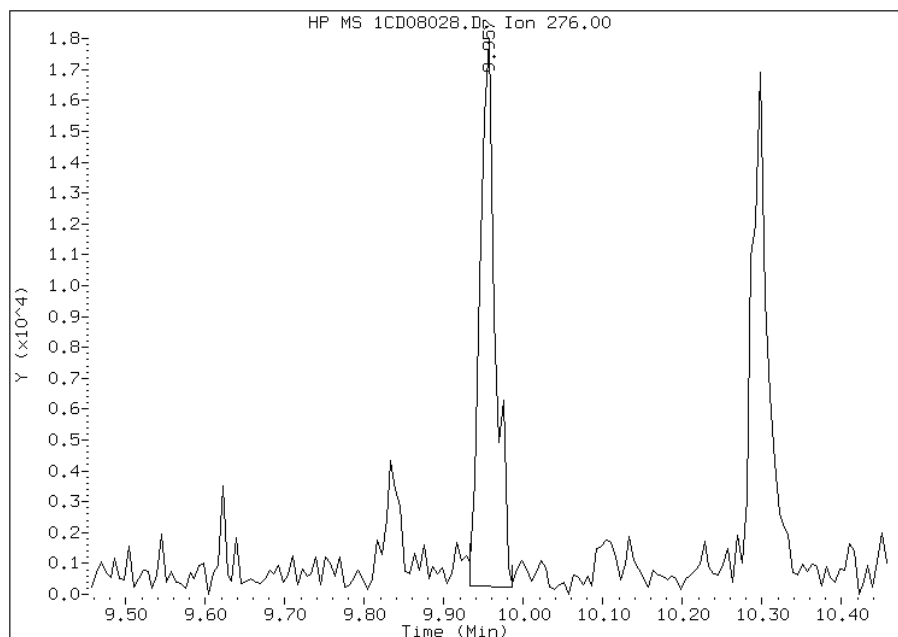
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:01  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08028.D  
Inj. Date and Time: 08-APR-2013 20:46  
Instrument ID: BSMC5973.i  
Client ID: CV0509LL-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

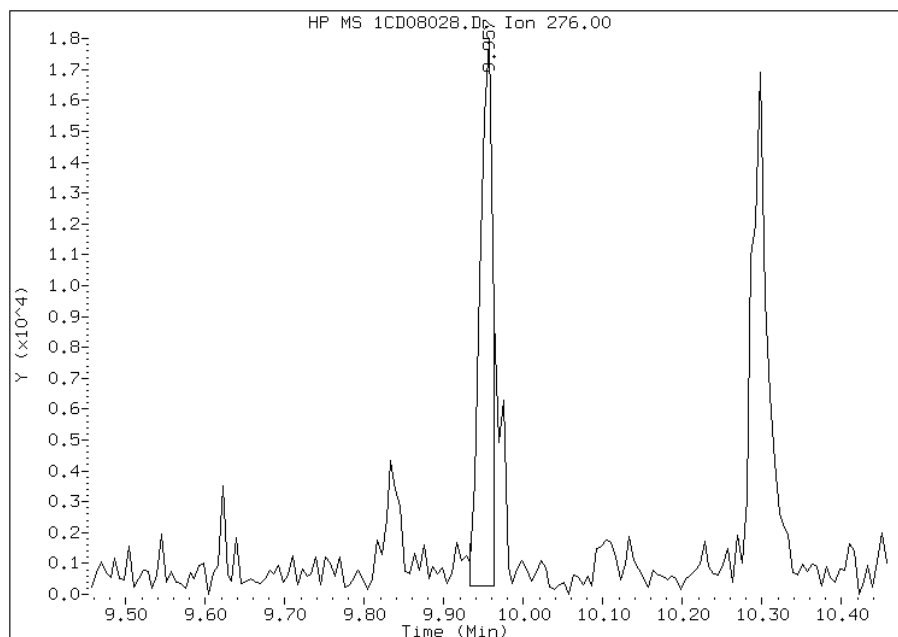
## Processing Integration Results

RT: 9.96  
Response: 23700  
Amount: 1  
Conc: 184



## Manual Integration Results

RT: 9.96  
Response: 19651  
Amount: 1  
Conc: 153



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:02  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509MM-CS Lab Sample ID: 680-88811-5  
 Matrix: Solid Lab File ID: 1CD08029.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:50  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 04/08/2013 21:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	37	J	64	8.0
120-12-7	Anthracene	85		13	6.7
56-55-3	Benzo[a]anthracene	420		13	6.2
50-32-8	Benzo[a]pyrene	350		17	8.3
205-99-2	Benzo[b]fluoranthene	590		20	9.8
191-24-2	Benzo[g,h,i]perylene	240		32	7.0
207-08-9	Benzo[k]fluoranthene	300		13	5.8
218-01-9	Chrysene	430		14	7.2
53-70-3	Dibenz(a,h)anthracene	100		32	6.6
206-44-0	Fluoranthene	540		32	6.4
86-73-7	Fluorene	37		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	200		32	11
90-12-0	1-Methylnaphthalene	82		64	7.0
91-57-6	2-Methylnaphthalene	130		64	11
91-20-3	Naphthalene	94		64	7.0
85-01-8	Phenanthrene	330		13	6.2
129-00-0	Pyrene	550		32	5.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08029.D  
 Lab Smp Id: 680-88811-A-5-A Client Smp ID: CV0509MM-CS  
 Inj Date : 08-APR-2013 21:05  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-5-A  
 Misc Info : 680-88811-A-5-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.020	Weight Extracted
M	37.640	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	571965	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.774	(1.000)	410117	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	780710	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	74150	6.54423	698.6920
* 18 Chrysene-d12	240		7.663	7.656	(1.000)	797098	40.0000	
* 23 Perylene-d12	264		8.827	8.821	(1.000)	773361	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	12988	0.88409	94.3895
3 2-Methylnaphthalene	142		4.133	4.127	(1.119)	11750	1.17497	125.4450
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	6919	0.76892	82.0938
5 Acenaphthylene	152		4.692	4.686	(0.982)	5930	0.34936	37.2996
9 Fluorene	166		5.116	5.115	(1.070)	4832	0.34478	36.8099
11 Phenanthrene	178		5.739	5.739	(1.003)	70445	3.09813	330.7705
12 Anthracene	178		5.774	5.768	(1.009)	18318	0.79472	84.8481
13 Carbazole	167		5.880	5.880	(1.028)	10876	0.55075	58.8006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	127278	5.06858	541.1451
16 Pyrene	202	6.739	6.739	(0.879)	114292	5.17621	552.6362
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	86877	3.89721	416.0842
19 Chrysene	228	7.680	7.674	(1.002)	91577	4.03178	430.4508
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	120016	5.48931	586.0641(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	59828	2.82928	302.0668(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	67282	3.26865	348.9757
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	37512	1.91868	204.8470(M)
25 Dibenzo(a,h)anthracene	278	9.980	9.968	(1.131)	17332	0.95967	102.4582
26 Benzo(g,h,i)perylene	276	10.304	10.297	(1.167)	45352	2.27282	242.6566

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CD08029.D

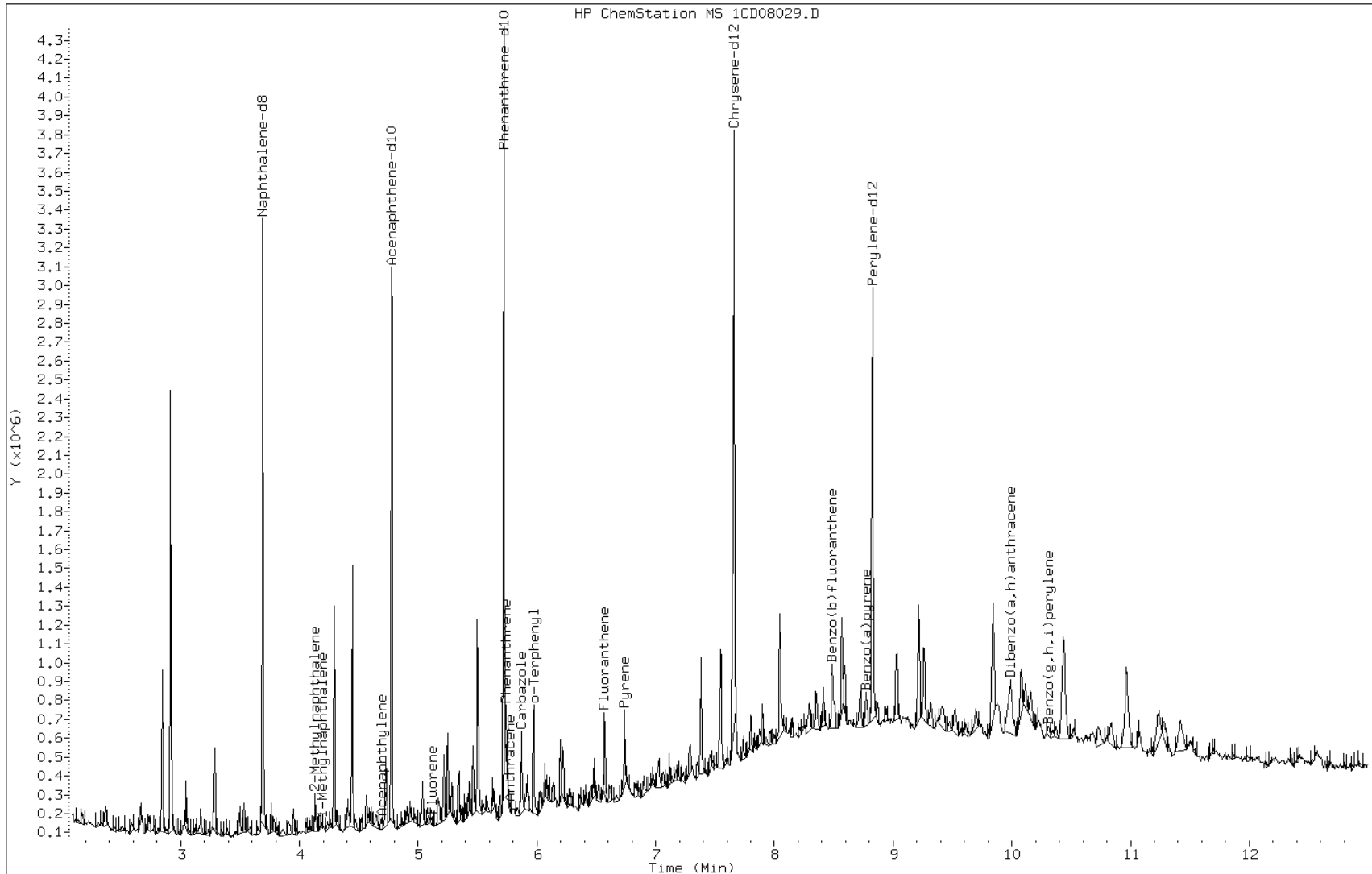
Date: 08-APR-2013 21:05

Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

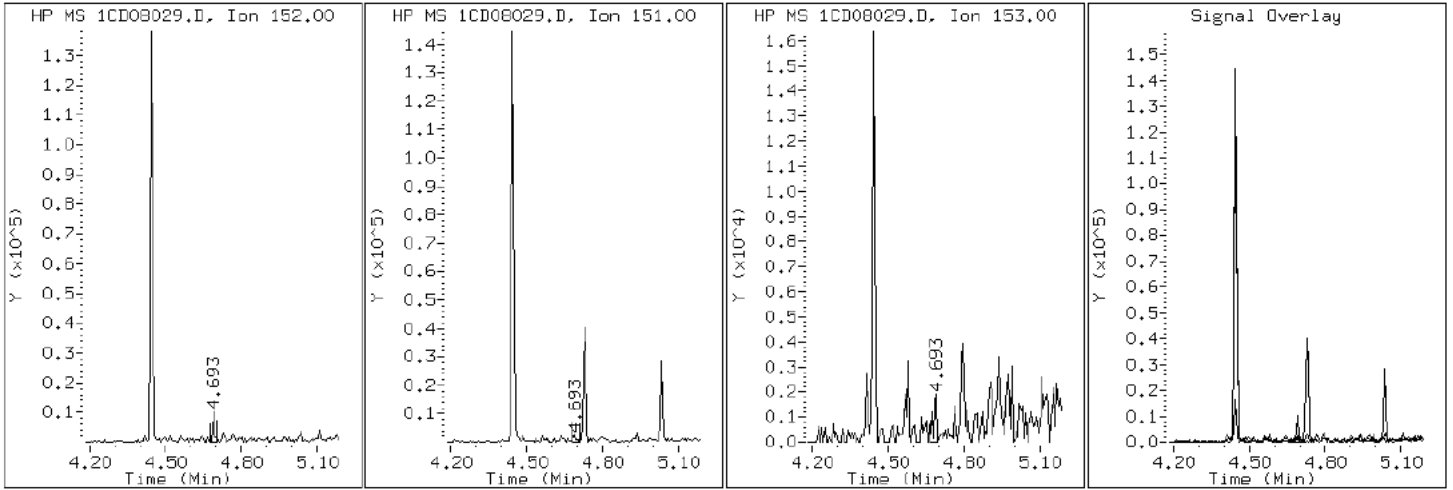
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

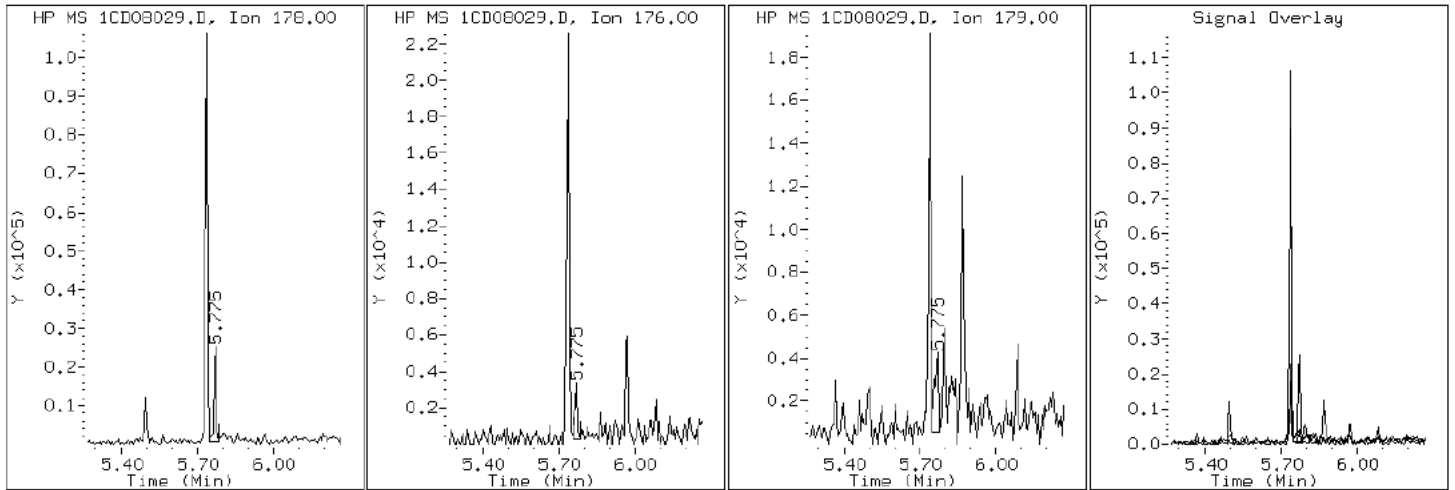
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

12 Anthracene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

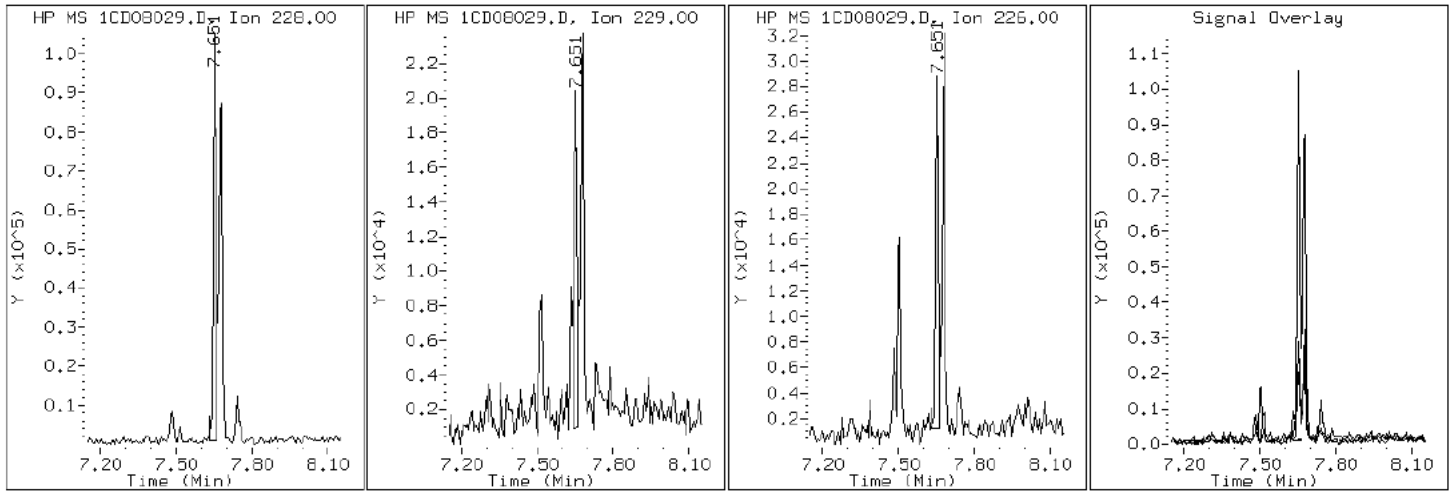
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

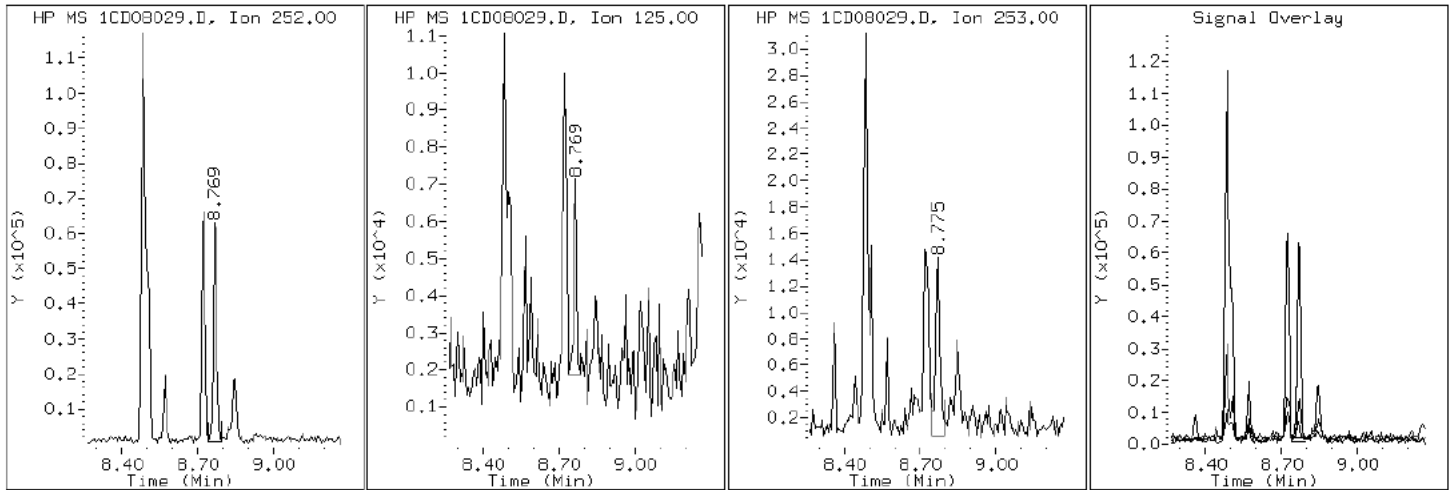
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

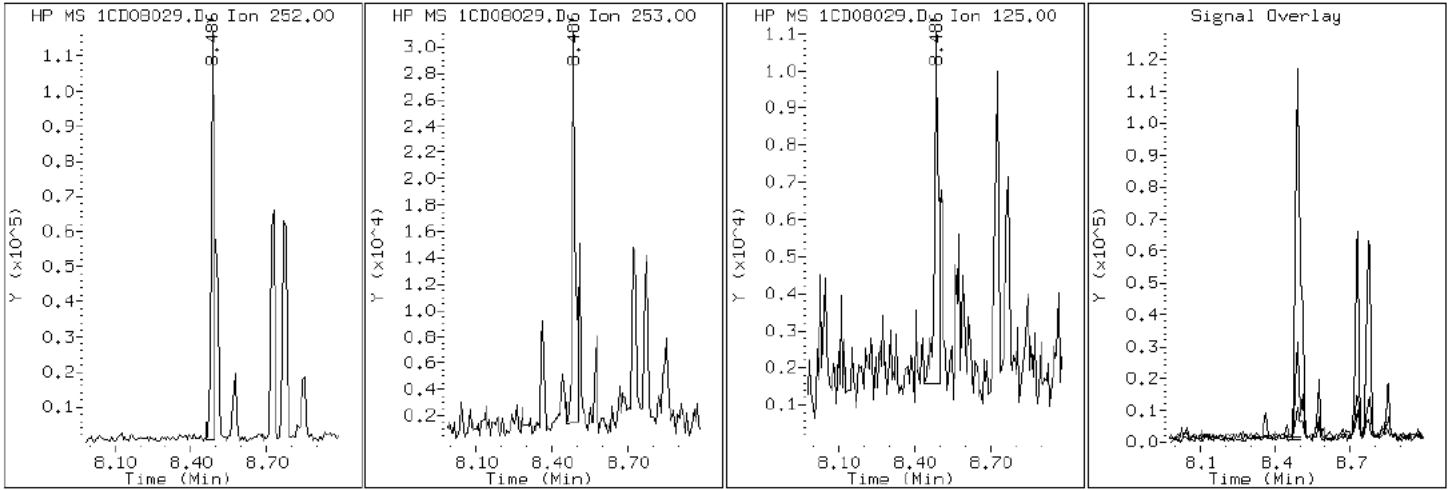
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

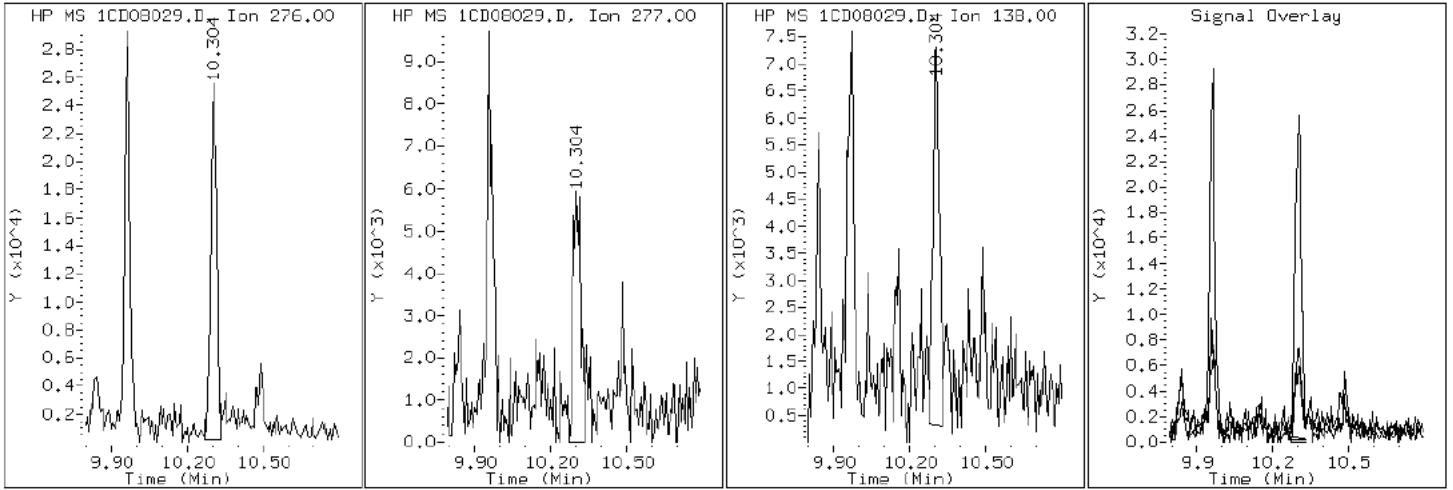
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

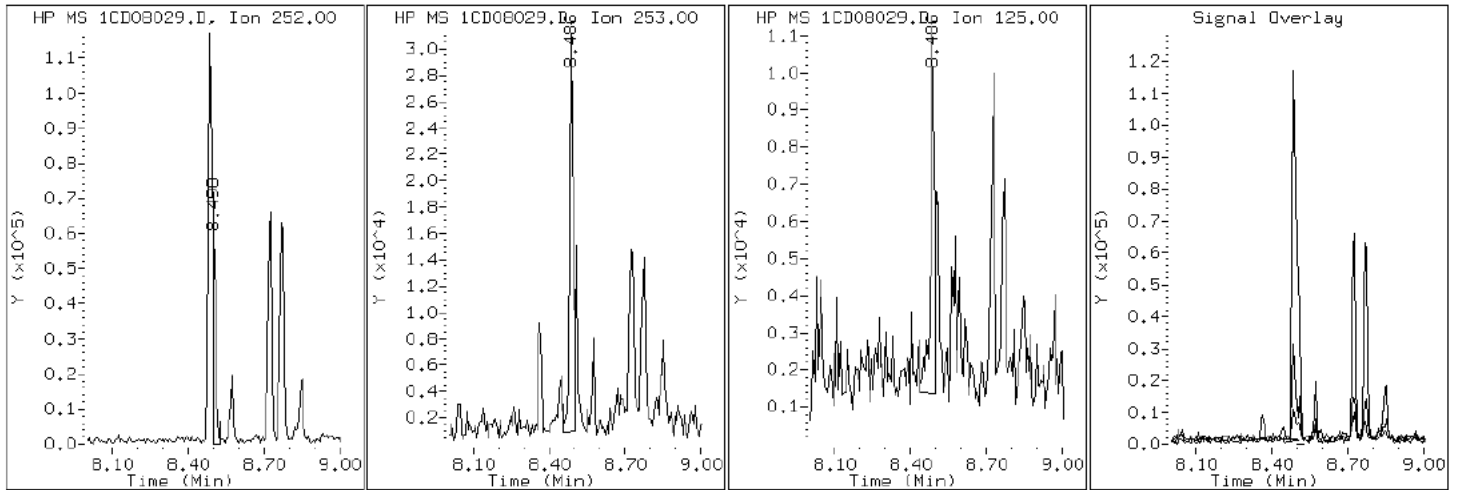
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

21 Benzo(k)fluoranthene





Data File: 1CD08029.D

Date: 08-APR-2013 21:05

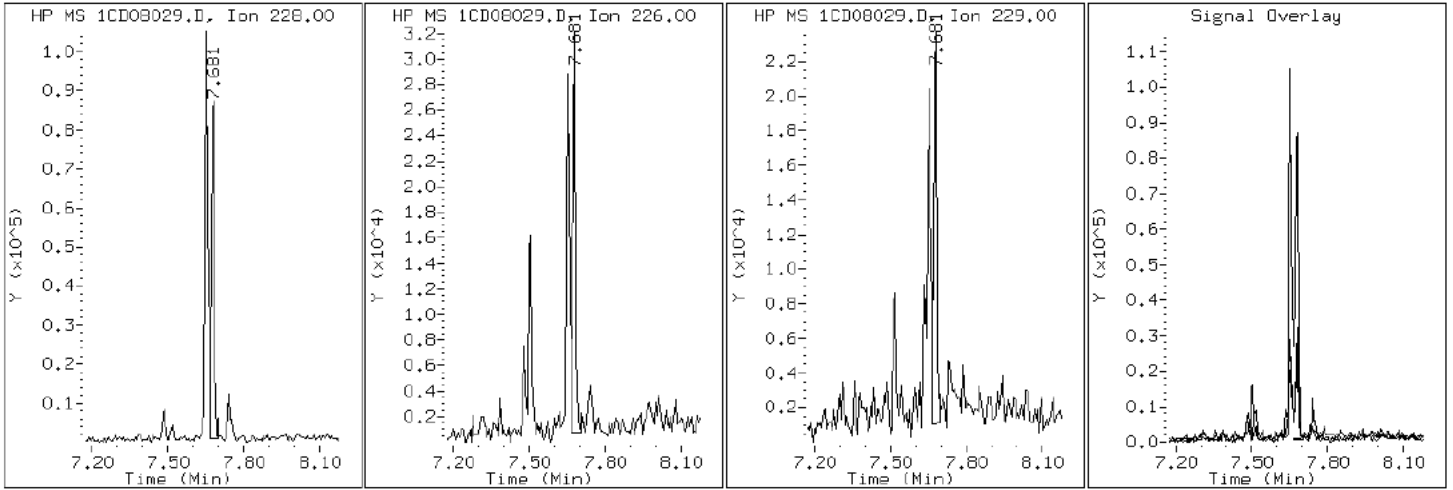
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

19 Chrysene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

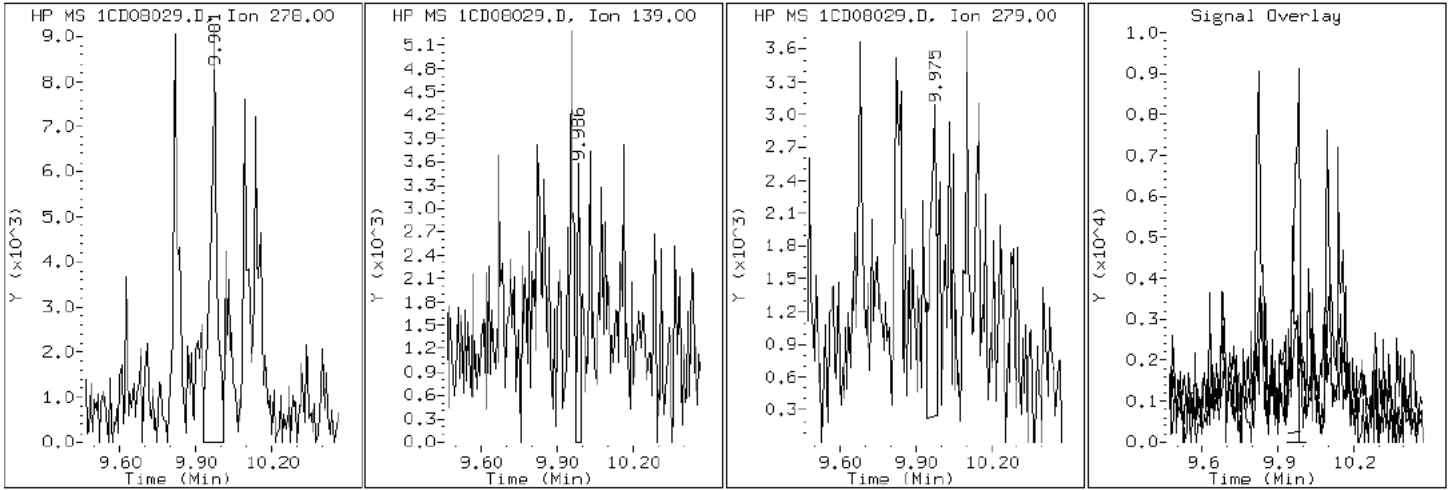
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

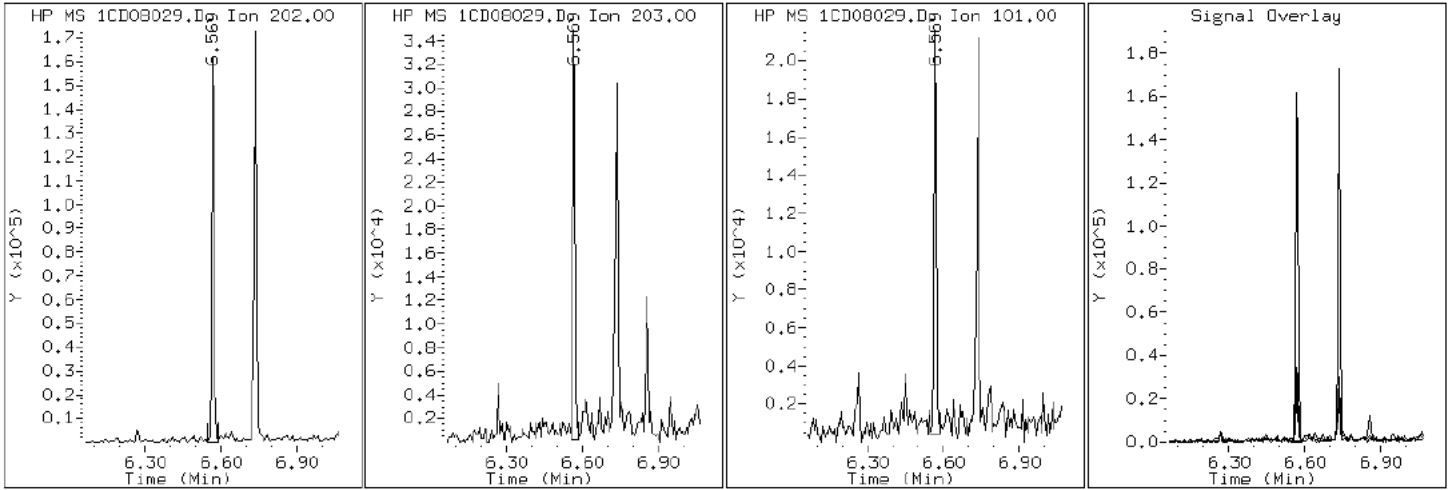
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

15 Fluoranthene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

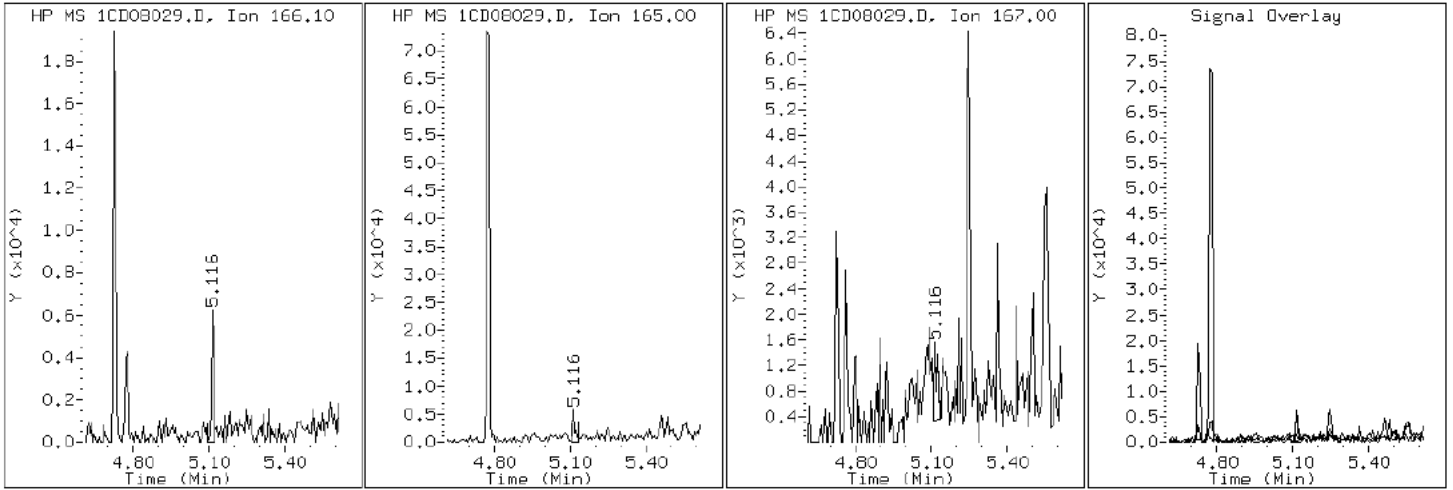
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

9 Fluorene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

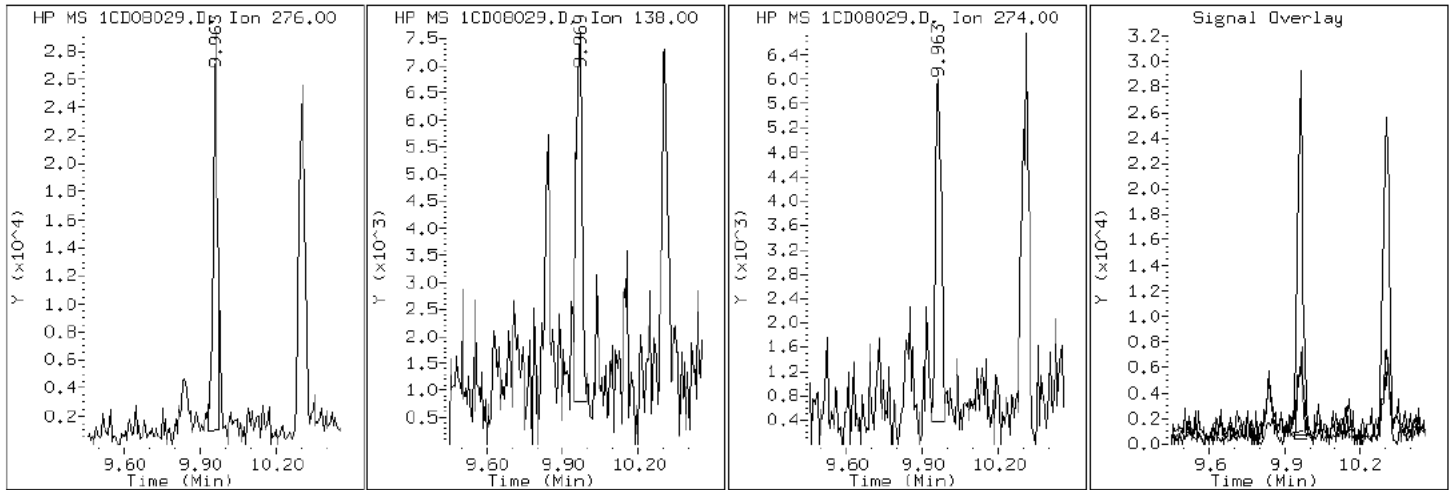
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

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



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

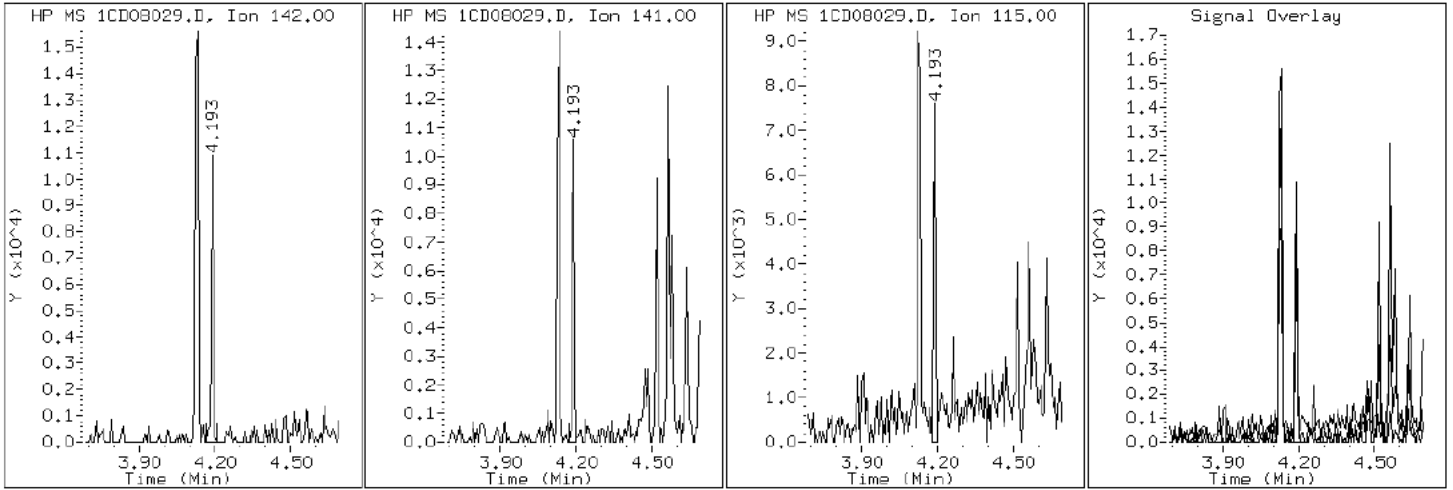
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

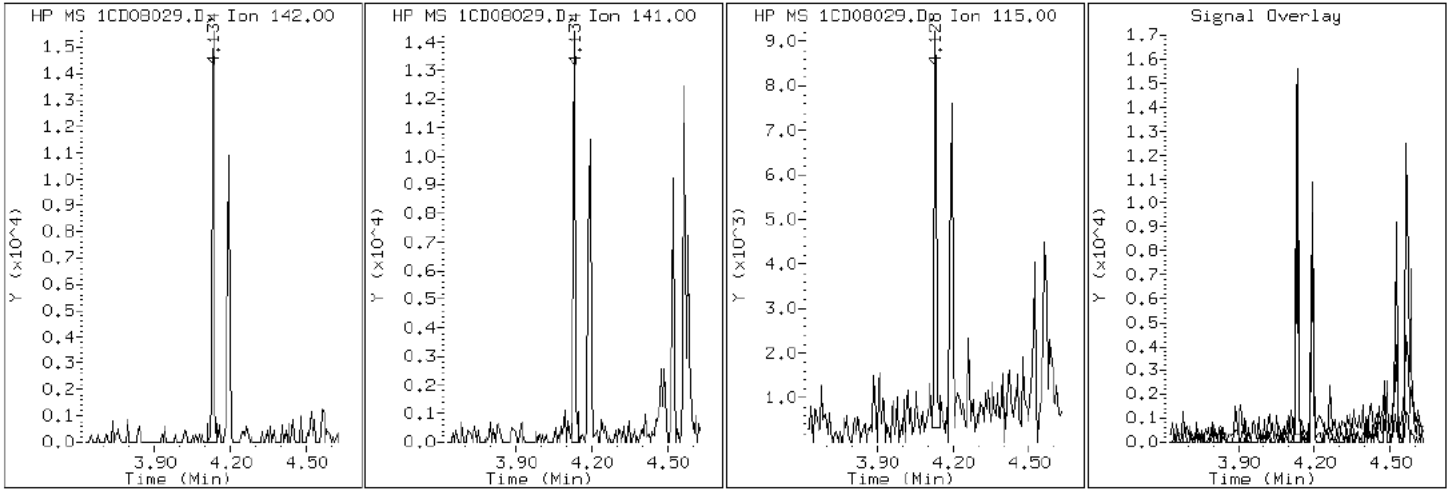
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

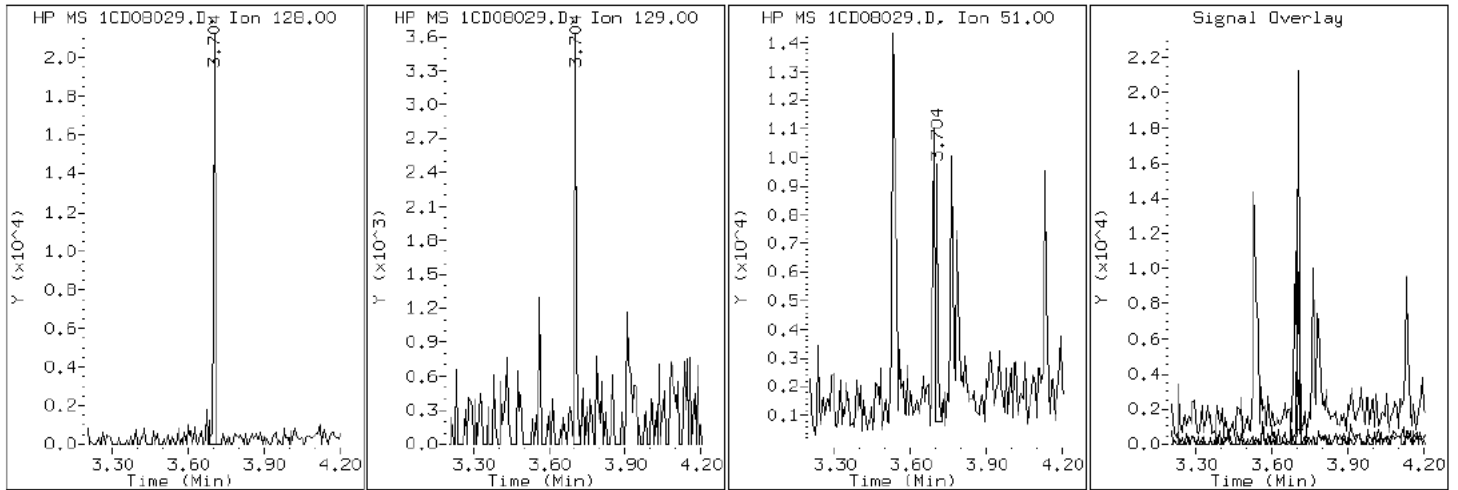
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

2 Naphthalene





Data File: 1CD08029.D

Date: 08-APR-2013 21:05

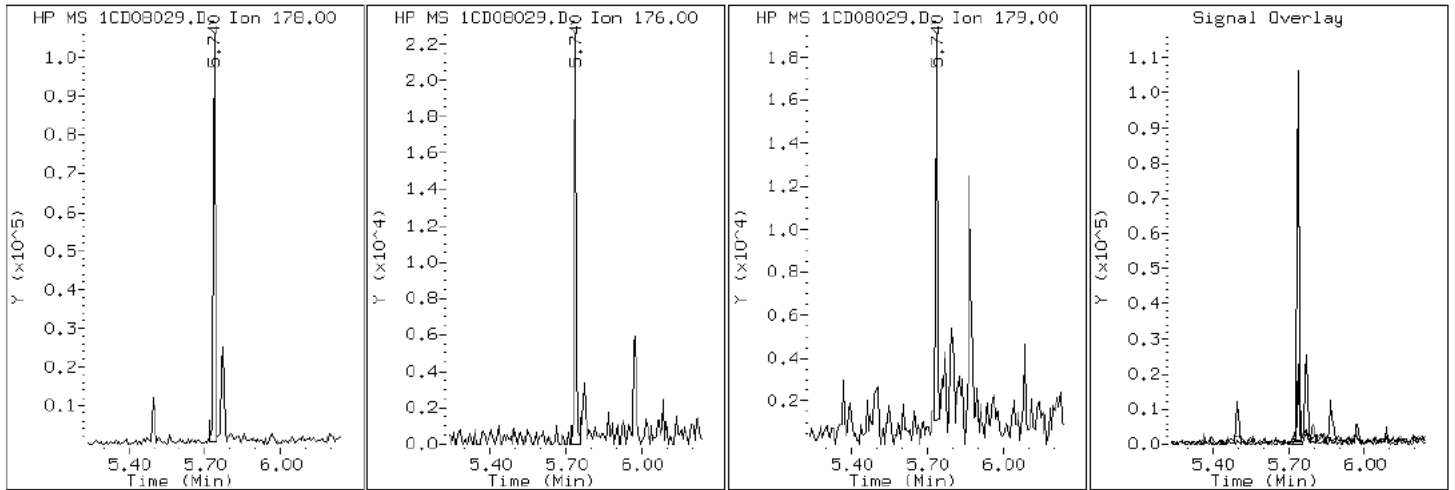
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

11 Phenanthrene



Data File: 1CD08029.D

Date: 08-APR-2013 21:05

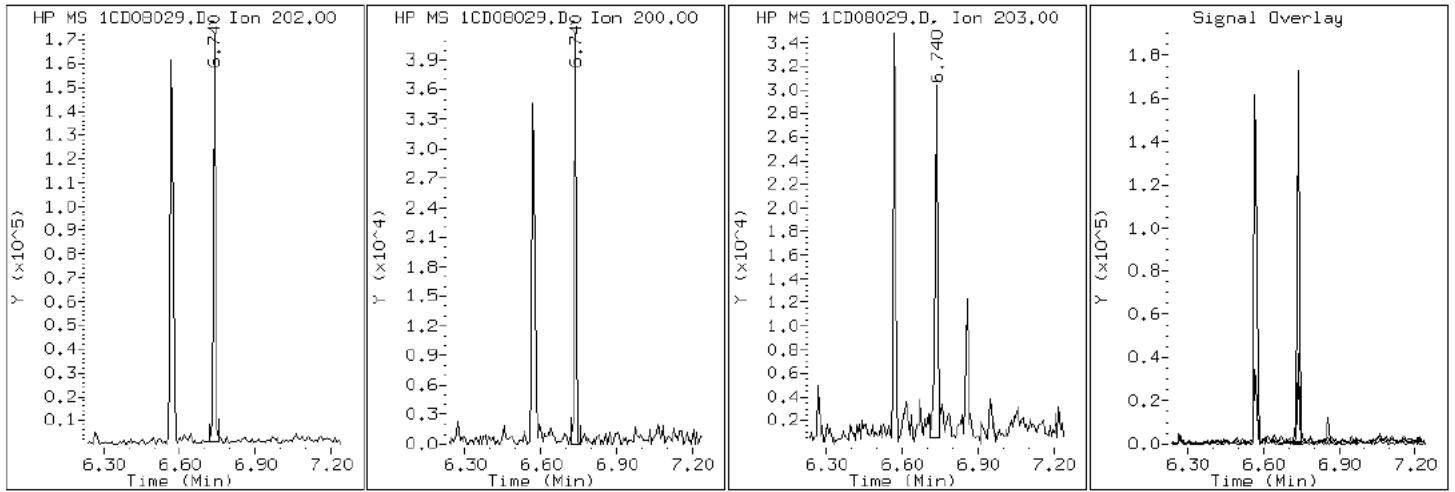
Client ID: CV0509MM-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-5-A

Operator: TP

16 Pyrene

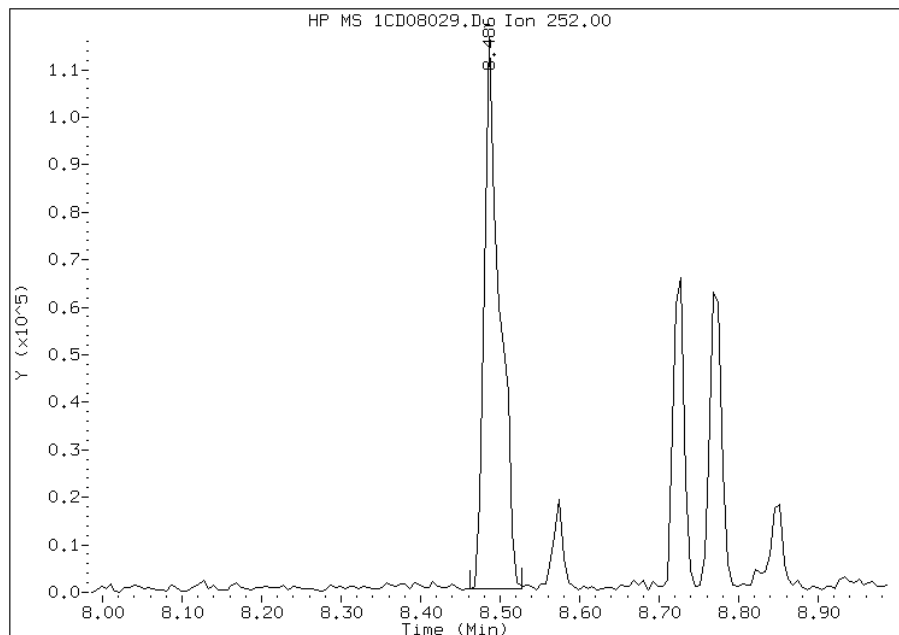


# Manual Integration Report

Data File: 1CD08029.D  
Inj. Date and Time: 08-APR-2013 21:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509MM-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

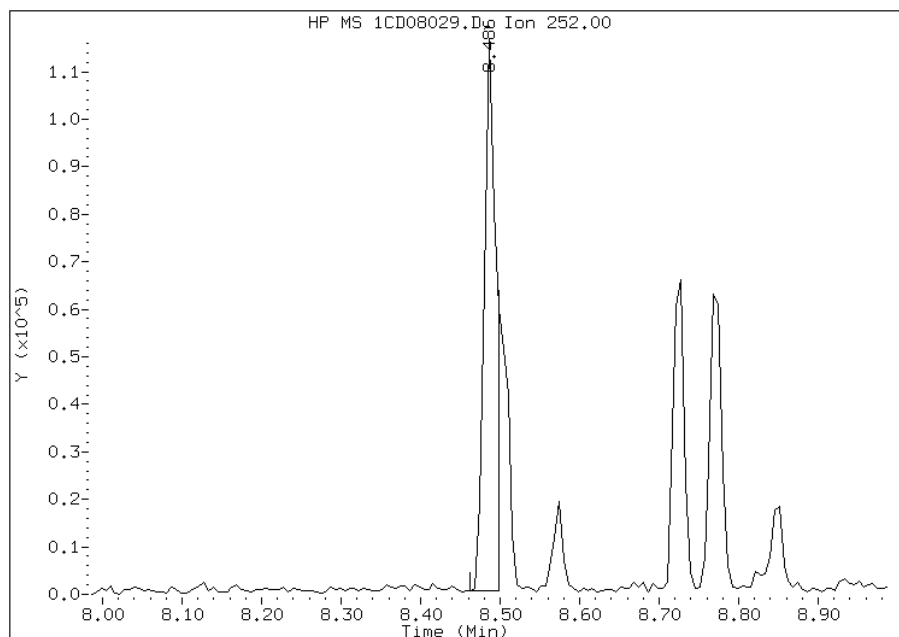
## Processing Integration Results

RT: 8.49  
Response: 157335  
Amount: 7  
Conc: 768



## Manual Integration Results

RT: 8.49  
Response: 120016  
Amount: 5  
Conc: 586



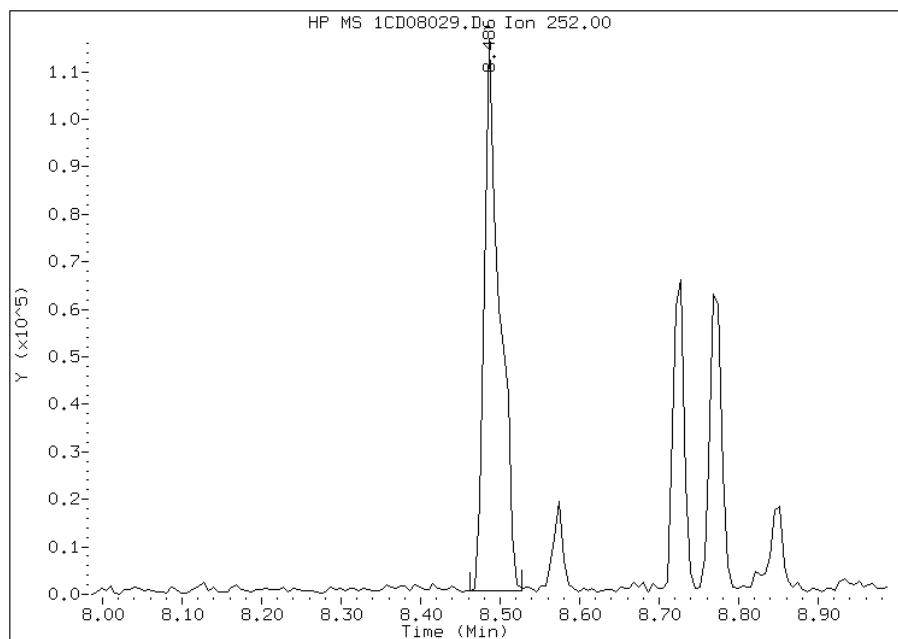
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:02  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08029.D  
Inj. Date and Time: 08-APR-2013 21:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509MM-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

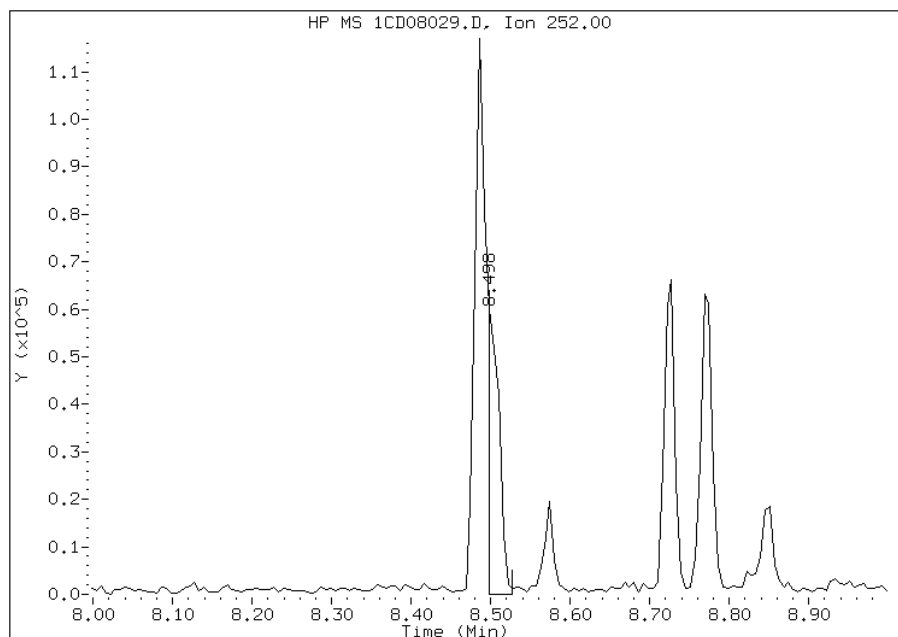
## Processing Integration Results

RT: 8.49  
Response: 157335  
Amount: 7  
Conc: 794



## Manual Integration Results

RT: 8.50  
Response: 59828  
Amount: 3  
Conc: 302



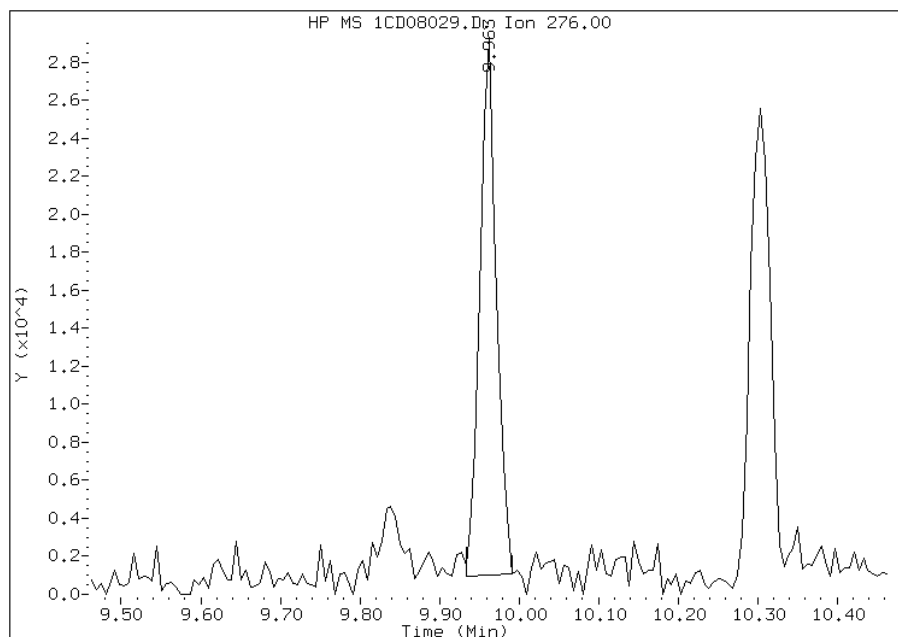
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:02  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08029.D  
Inj. Date and Time: 08-APR-2013 21:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509MM-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

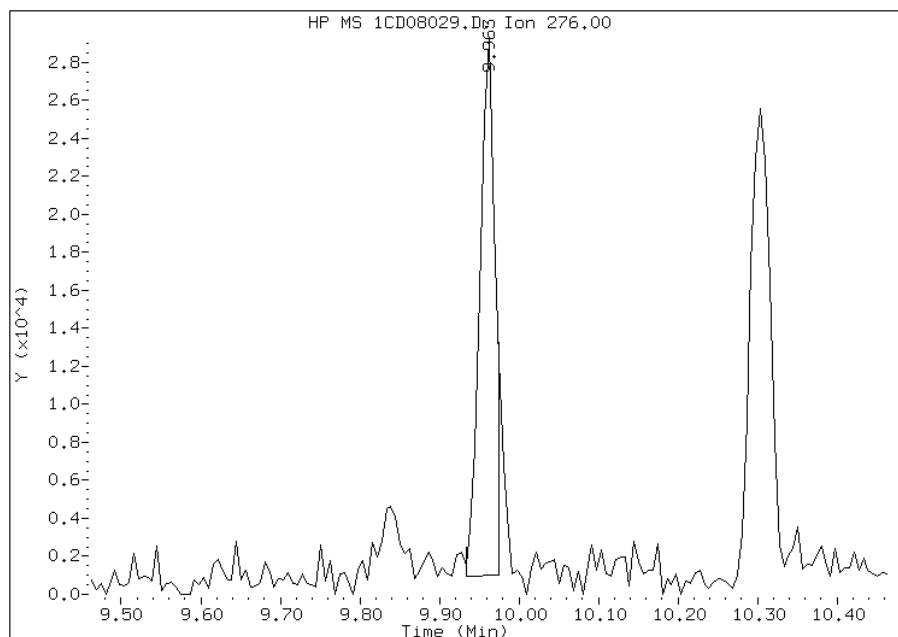
## Processing Integration Results

RT: 9.96  
Response: 40363  
Amount: 2  
Conc: 220



## Manual Integration Results

RT: 9.96  
Response: 37512  
Amount: 2  
Conc: 205



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:03  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509AO-GS Lab Sample ID: 680-88811-6  
 Matrix: Solid Lab File ID: 1CD08030.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:26  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/08/2013 21:23  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	39	J	210	26
120-12-7	Anthracene	50		43	22
56-55-3	Benzo[a]anthracene	350		41	20
50-32-8	Benzo[a]pyrene	320		54	27
205-99-2	Benzo[b]fluoranthene	530		63	32
191-24-2	Benzo[g,h,i]perylene	270		100	23
207-08-9	Benzo[k]fluoranthene	170		41	19
218-01-9	Chrysene	320		47	23
53-70-3	Dibenz(a,h)anthracene	99	J	100	21
206-44-0	Fluoranthene	420		100	21
86-73-7	Fluorene	34	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	150		100	37
90-12-0	1-Methylnaphthalene	69	J	210	23
91-57-6	2-Methylnaphthalene	89	J	210	37
91-20-3	Naphthalene	79	J	210	23
85-01-8	Phenanthrene	270		41	20
129-00-0	Pyrene	420		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08030.D  
 Lab Smp Id: 680-88811-A-6-A Client Smp ID: CV0509AO-GS  
 Inj Date : 08-APR-2013 21:23  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-6-A  
 Misc Info : 680-88811-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 30  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	22.517	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	568162	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	415309	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	773987	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	21372	2.41710	208.5227(R)	
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	763917	40.0000		
* 23 Perylene-d12	264		8.821	8.821	(1.000)	696010	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	3334	0.22846	19.7095(Q)	
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	2552	0.25690	22.1628(Q)	
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	1791	0.20037	17.2859	
5 Acenaphthylene	152		4.686	4.686	(0.982)	1960	0.11403	9.8372	
9 Fluorene	166		5.121	5.115	(1.073)	1418	0.09991	8.6195	
11 Phenanthrene	178		5.739	5.739	(1.003)	17778	0.78866	68.0374	
12 Anthracene	178		5.768	5.768	(1.008)	3287	0.14384	12.4094	
13 Carbazole	167		5.880	5.880	(1.028)	2205	0.11263	9.7165(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	30362	1.21961	105.2153
16 Pyrene	202	6.739	6.739	(0.880)	25475	1.20386	103.8569
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	19398	1.01200	87.3051
19 Chrysene	228	7.674	7.674	(1.002)	20410	0.93760	80.8868
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	30382	1.54405	133.2053
21 Benzo(k)fluoranthene	252	8.509	8.503	(0.965)	9104	0.47838	41.2695
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	16984	0.91680	79.0925
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	7609	0.43244	37.3066
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	4670	0.28731	24.7864(M)
26 Benzo(g,h,i)perylene	276	10.292	10.297	(1.167)	13807	0.76884	66.3275

QC Flag Legend

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



Data File: 1CD08030.D

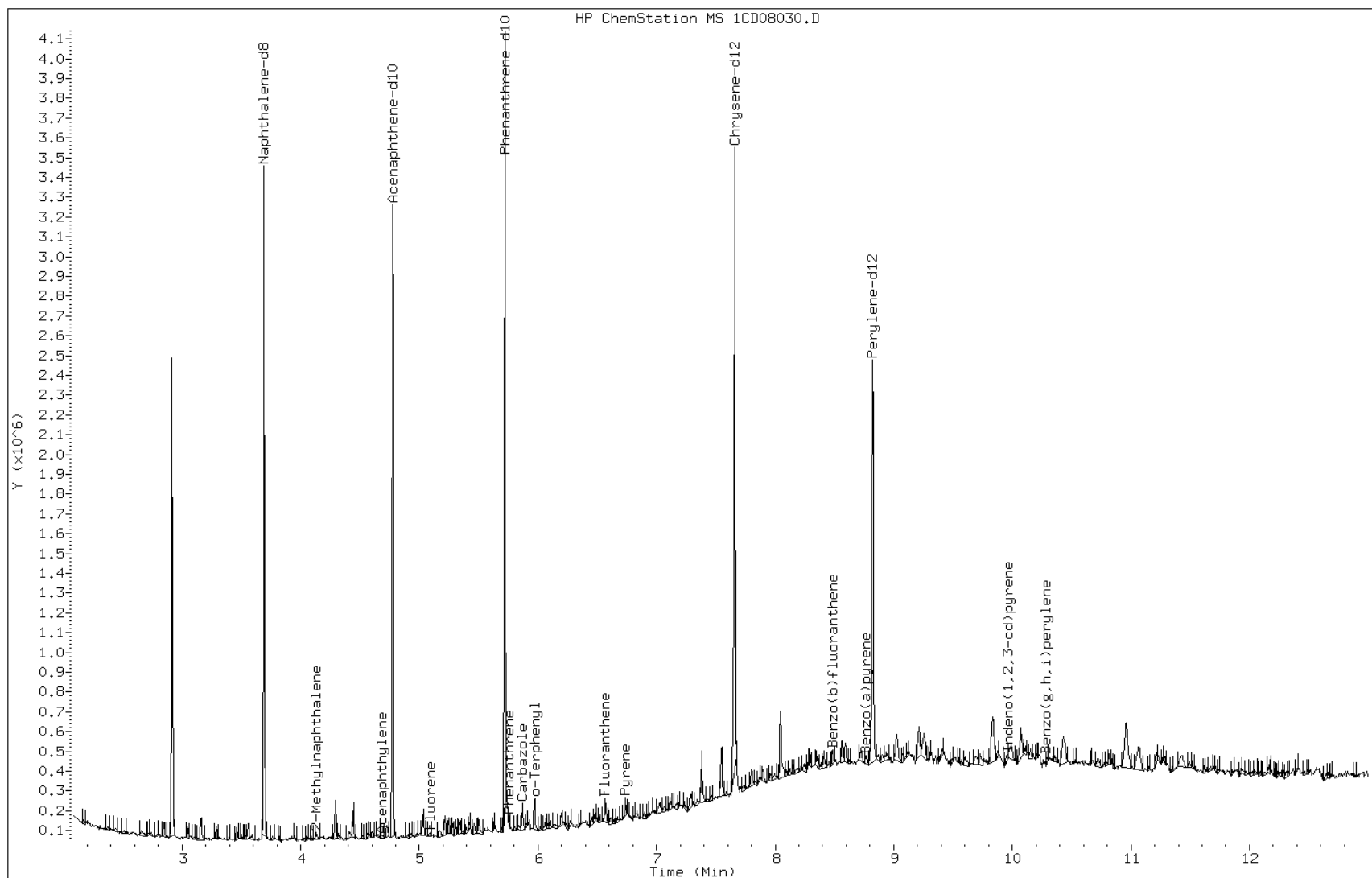
Date: 08-APR-2013 21:23

Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

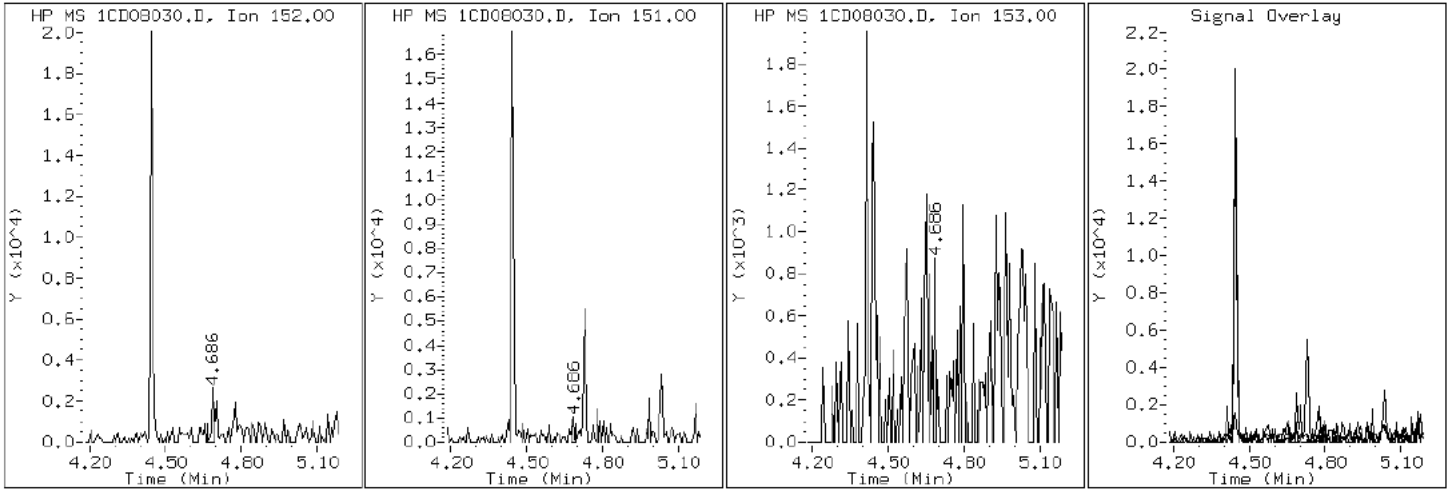
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

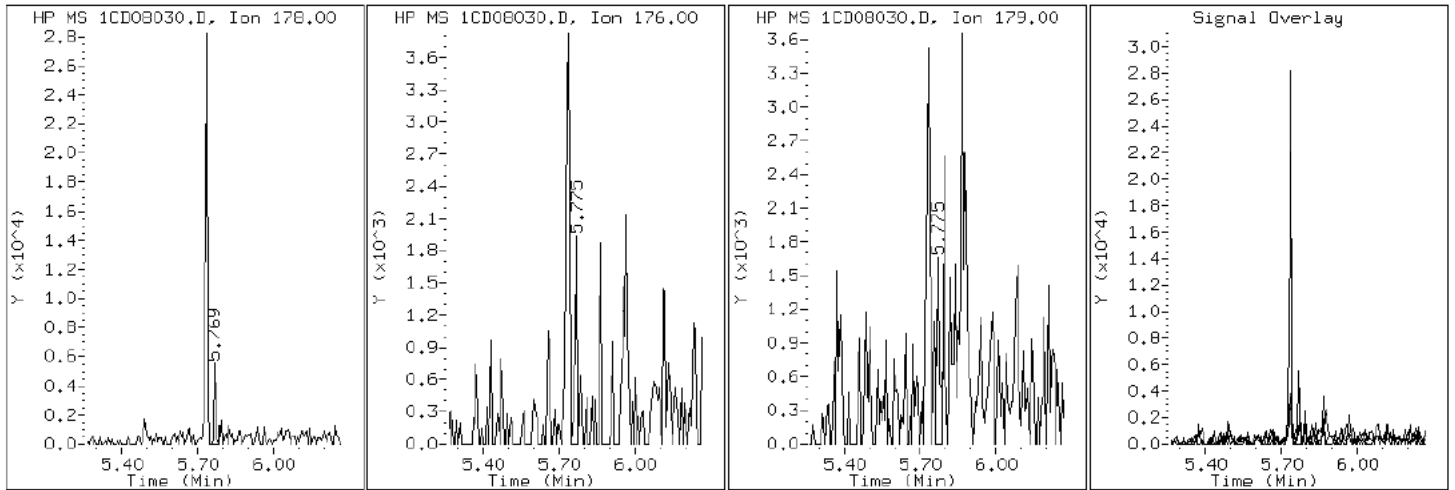
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

12 Anthracene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

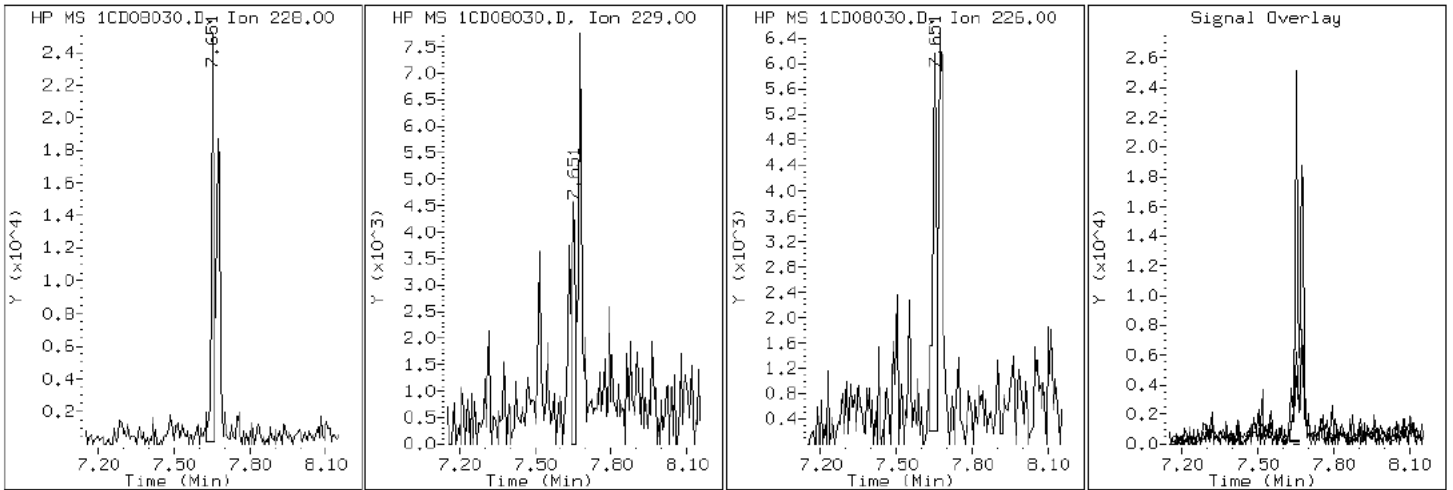
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

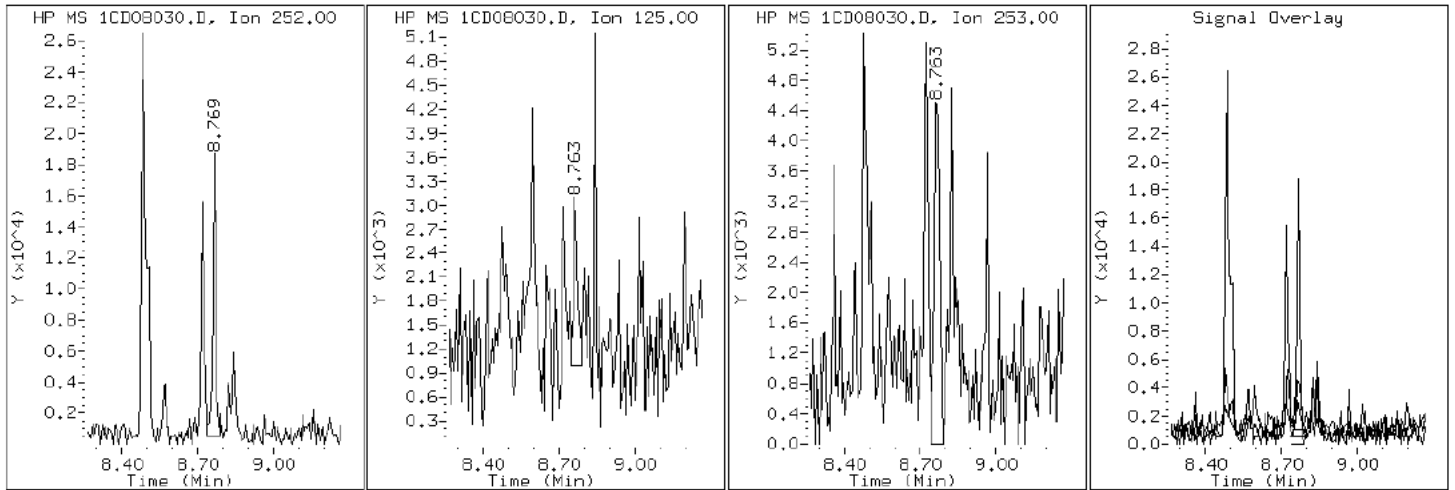
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

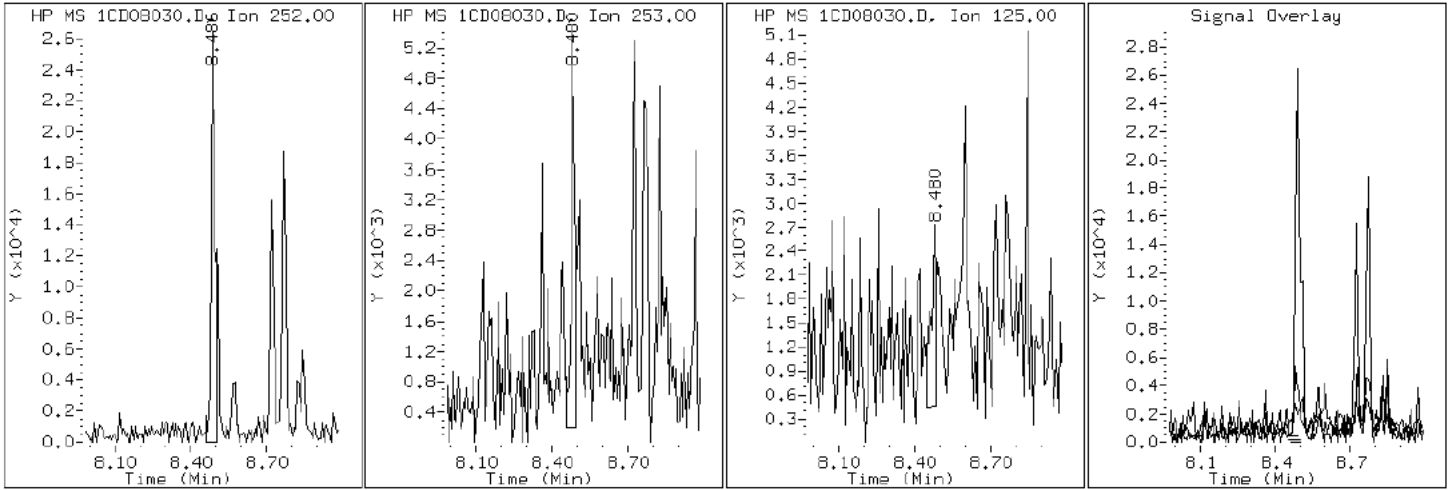
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

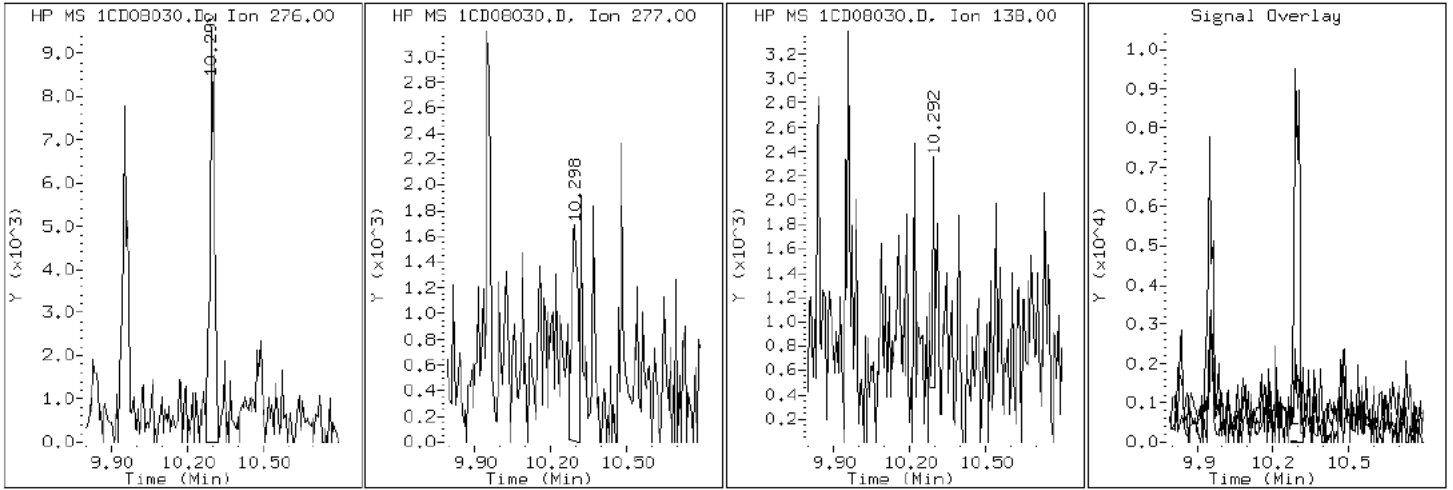
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

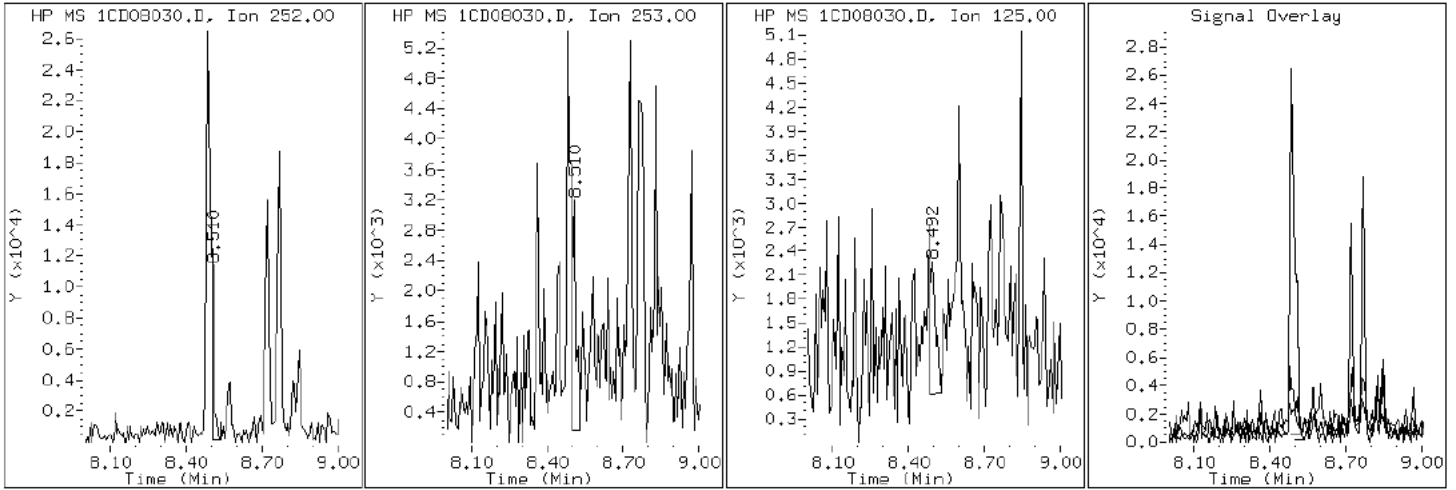
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

21 Benzo(k)fluoranthene





Data File: 1CD08030.D

Date: 08-APR-2013 21:23

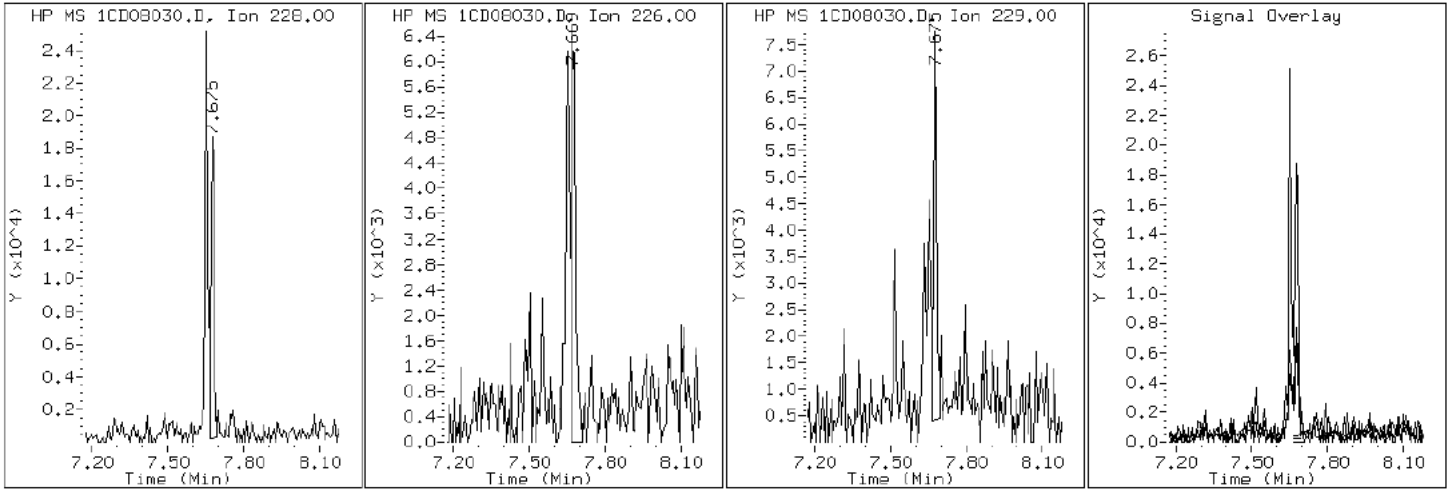
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

19 Chrysene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

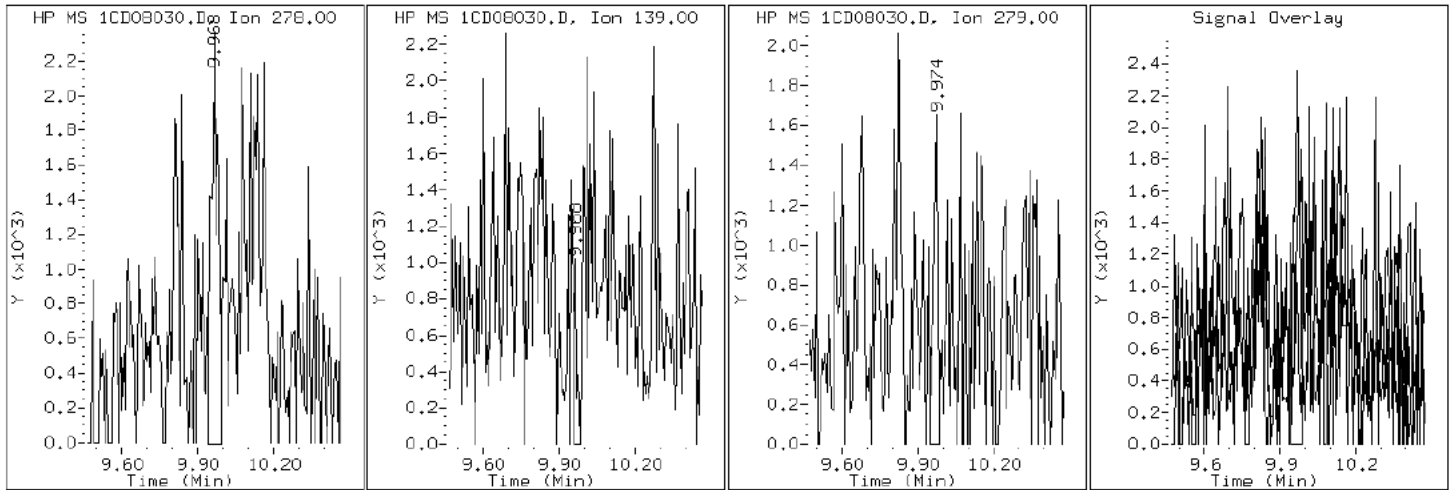
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

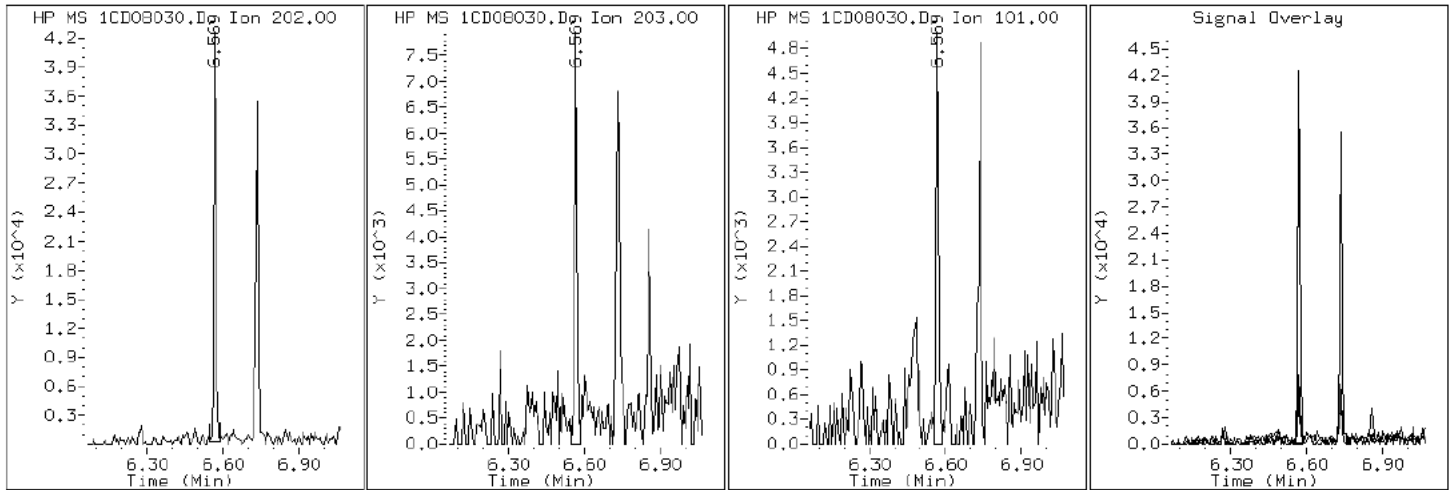
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

15 Fluoranthene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

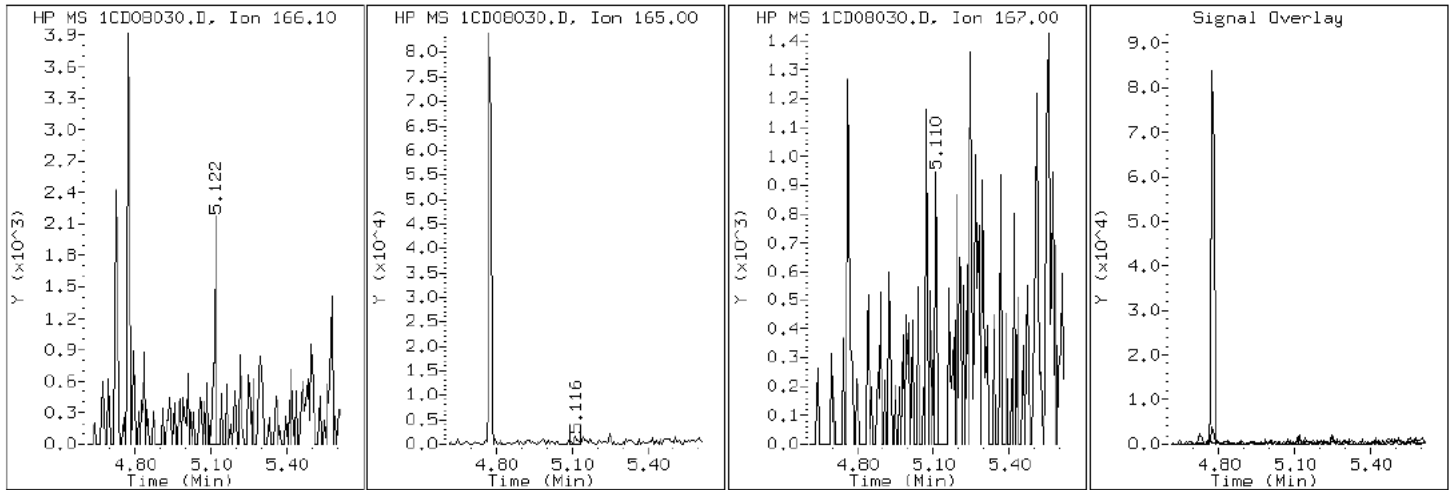
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

9 Fluorene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

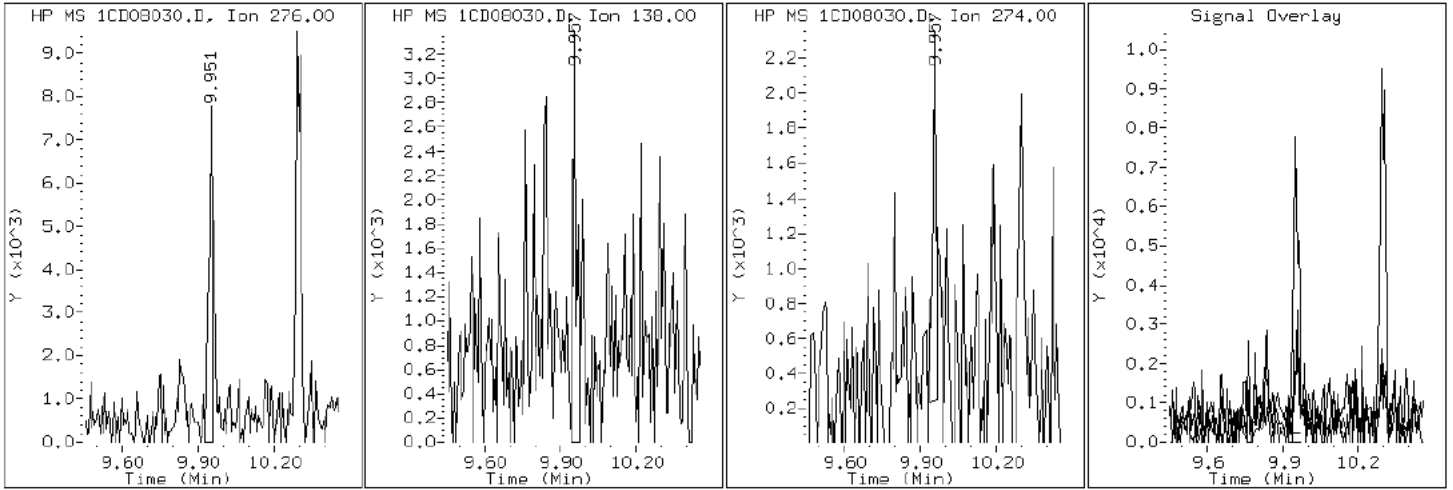
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

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



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

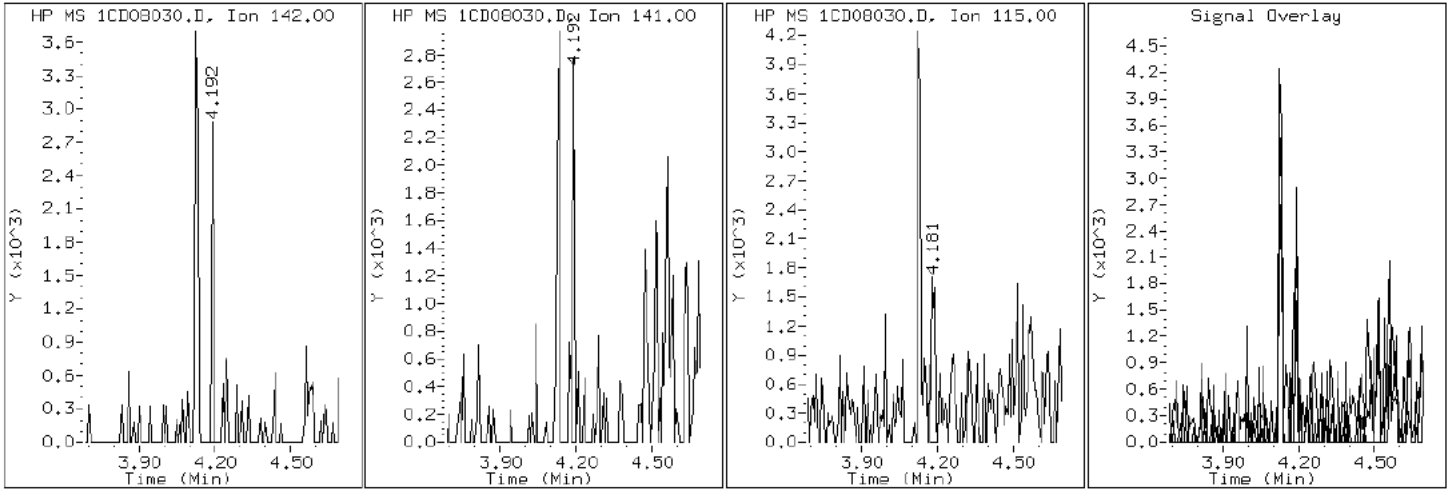
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

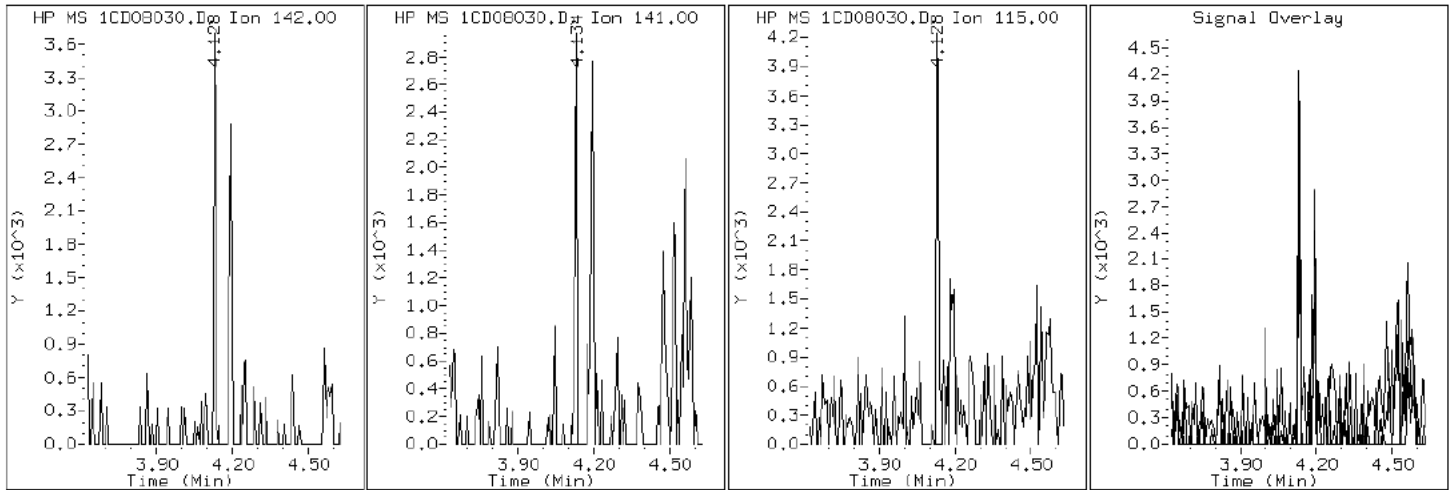
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

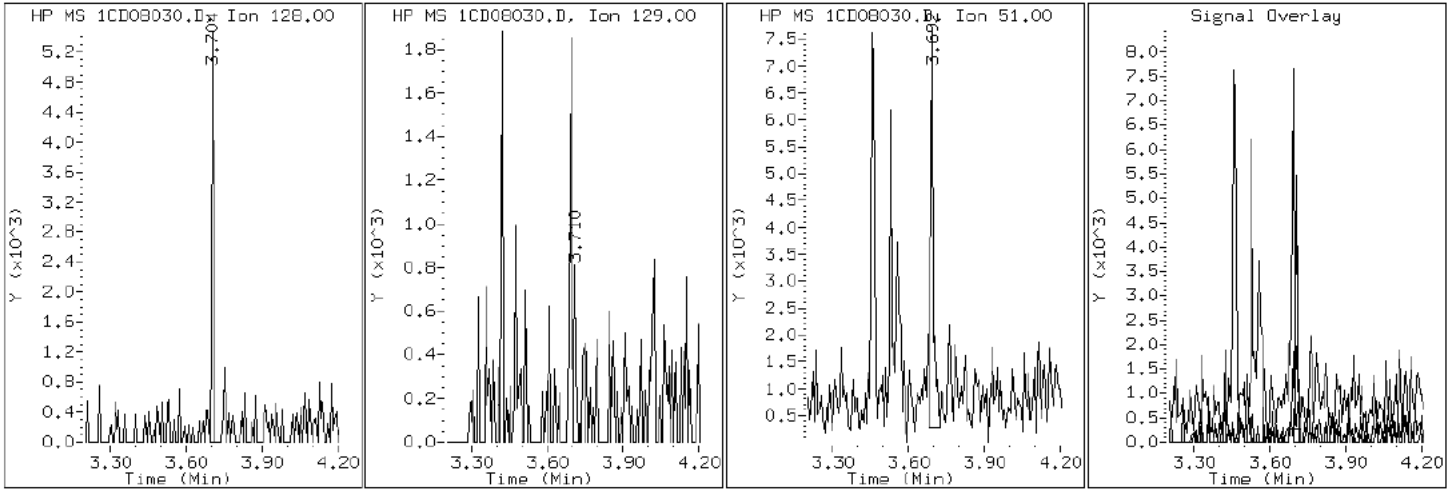
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

2 Naphthalene





Data File: 1CD08030.D

Date: 08-APR-2013 21:23

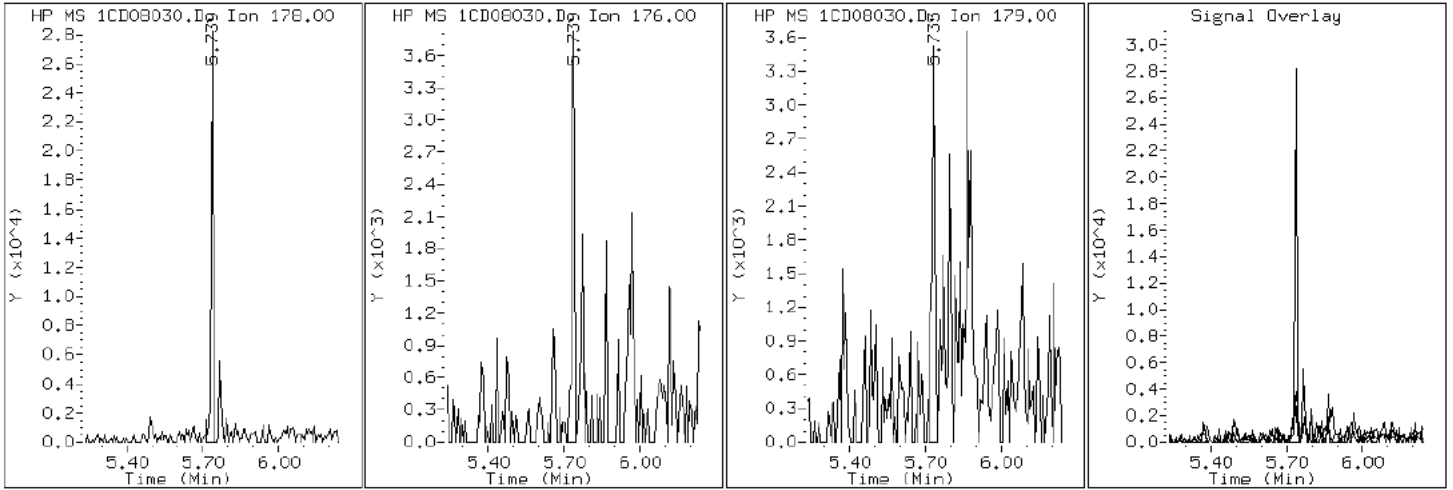
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

11 Phenanthrene



Data File: 1CD08030.D

Date: 08-APR-2013 21:23

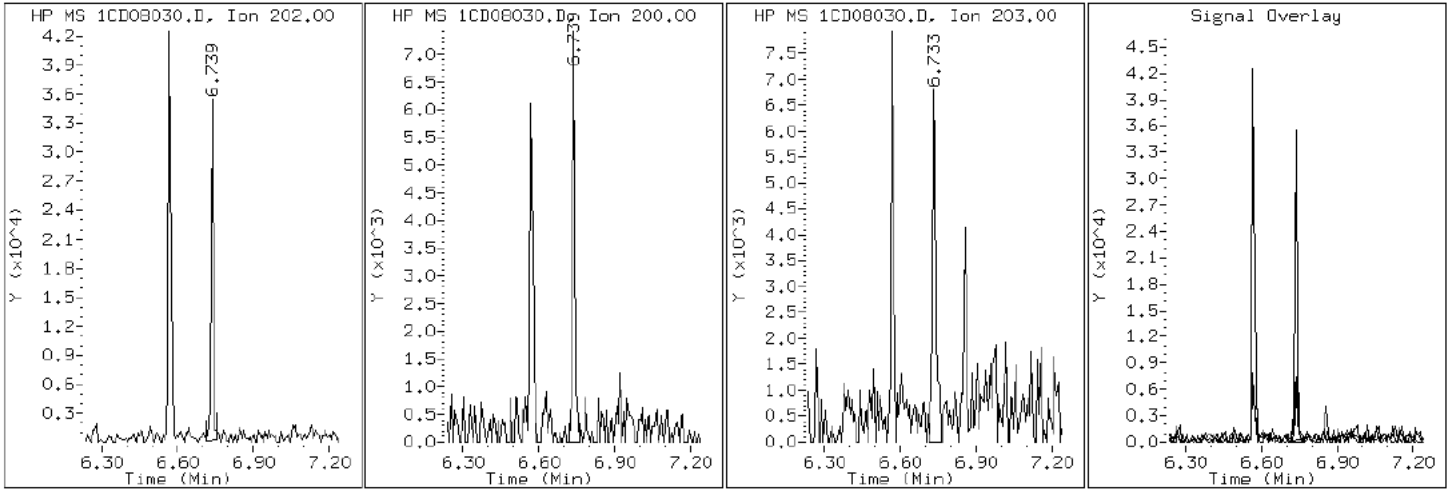
Client ID: CV0509AO-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-6-A

Operator: TP

16 Pyrene

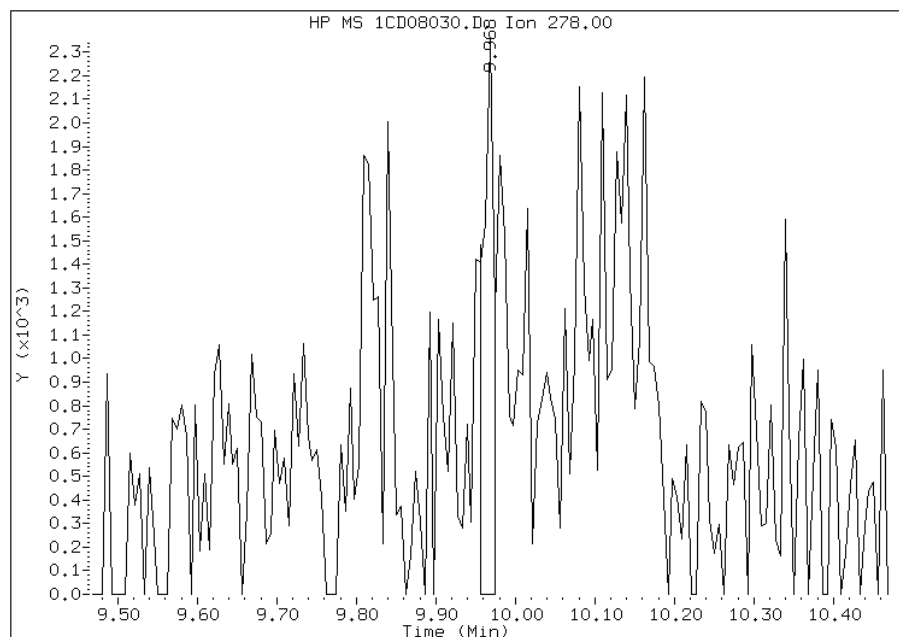


# Manual Integration Report

Data File: 1CD08030.D  
Inj. Date and Time: 08-APR-2013 21:23  
Instrument ID: BSMC5973.i  
Client ID: CV0509AO-GS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

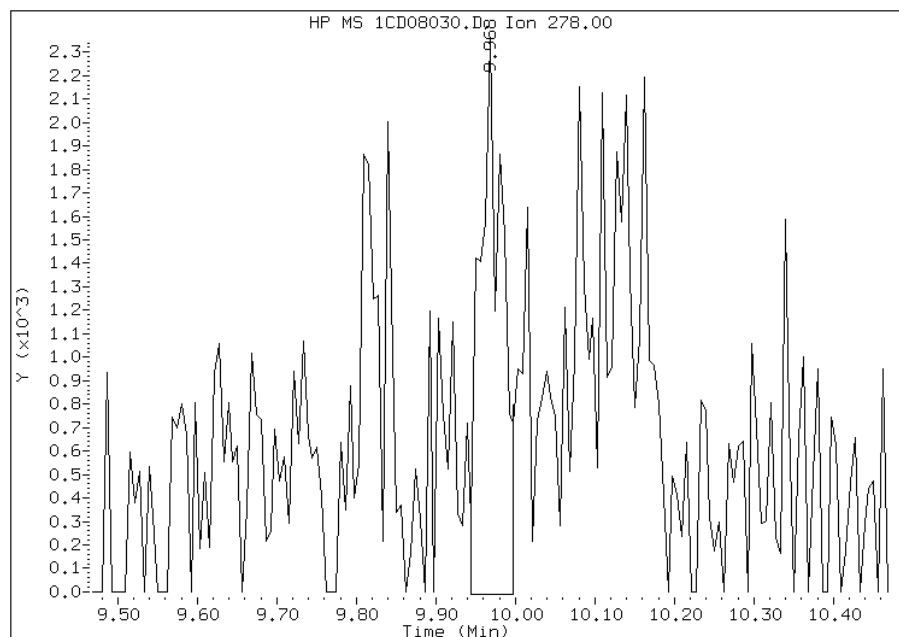
## Processing Integration Results

RT: 9.97  
Response: 2306  
Amount: 0  
Conc: 12



## Manual Integration Results

RT: 9.97  
Response: 4670  
Amount: 0  
Conc: 25



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:06  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509AP-GS Lab Sample ID: 680-88811-7  
 Matrix: Solid Lab File ID: 1CD08031.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:35  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.08(g) Date Analyzed: 04/08/2013 21:41  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 39.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	650	U	650	130
208-96-8	Acenaphthylene	79	J	260	33
120-12-7	Anthracene	180		55	27
56-55-3	Benzo[a]anthracene	700		52	25
50-32-8	Benzo[a]pyrene	670		68	34
205-99-2	Benzo[b]fluoranthene	1100		80	40
191-24-2	Benzo[g,h,i]perylene	410		130	29
207-08-9	Benzo[k]fluoranthene	240		52	23
218-01-9	Chrysene	800		59	29
53-70-3	Dibenz(a,h)anthracene	140		130	27
206-44-0	Fluoranthene	1200		130	26
86-73-7	Fluorene	77	J	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	320		130	46
90-12-0	1-Methylnaphthalene	110	J	260	29
91-57-6	2-Methylnaphthalene	130	J	260	46
91-20-3	Naphthalene	130	J	260	29
85-01-8	Phenanthrene	670		52	25
129-00-0	Pyrene	1100		130	24

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08031.D  
 Lab Smp Id: 680-88811-A-7-A Client Smp ID: CV0509AP-GS  
 Inj Date : 08-APR-2013 21:41  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-7-A  
 Misc Info : 680-88811-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 31  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	38.995	% 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		3.692	3.692	(1.000)	561378	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	415366	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	773763	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	16373	2.02177		219.7692(R)
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	767020	40.0000		
* 23 Perylene-d12	264		8.827	8.821	(1.000)	710351	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	4294	0.29780		32.3716(Q)
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	2824	0.28772		31.2753
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	2310	0.26156		28.4315
5 Acenaphthylene	152		4.686	4.686	(0.982)	3137	0.18248		19.8357
9 Fluorene	166		5.116	5.115	(1.071)	2509	0.17676		19.2142
11 Phenanthrene	178		5.739	5.739	(1.003)	34979	1.55217		168.7227
12 Anthracene	178		5.768	5.768	(1.008)	9317	0.40785		44.3332
13 Carbazole	167		5.880	5.880	(1.028)	6883	0.35168		38.2278

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.568	6.568	(1.148)	67531	2.71343	294.9531
16 Pyrene	202		6.739	6.739	(0.880)	54603	2.56991	279.3526
17 Benzo(a)anthracene	228		7.651	7.651	(0.999)	33005	1.62071	176.1734
19 Chrysene	228		7.680	7.674	(1.003)	40445	1.85046	201.1475
20 Benzo(b)fluoranthene	252		8.486	8.486	(0.961)	52782	2.62829	285.6990
21 Benzo(k)fluoranthene	252		8.509	8.503	(0.964)	10857	0.55897	60.7610
22 Benzo(a)pyrene	252		8.768	8.768	(0.993)	28976	1.53256	166.5910
24 Indeno(1,2,3-cd)pyrene	276		9.951	9.956	(1.127)	13313	0.74134	80.5846(M)
25 Dibenzo(a,h)anthracene	278		9.968	9.968	(1.129)	5353	0.32268	35.0762(Q)
26 Benzo(g,h,i)perylene	276		10.298	10.297	(1.167)	17177	0.93718	101.8732

QC Flag Legend

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

Data File: 1CD08031.D

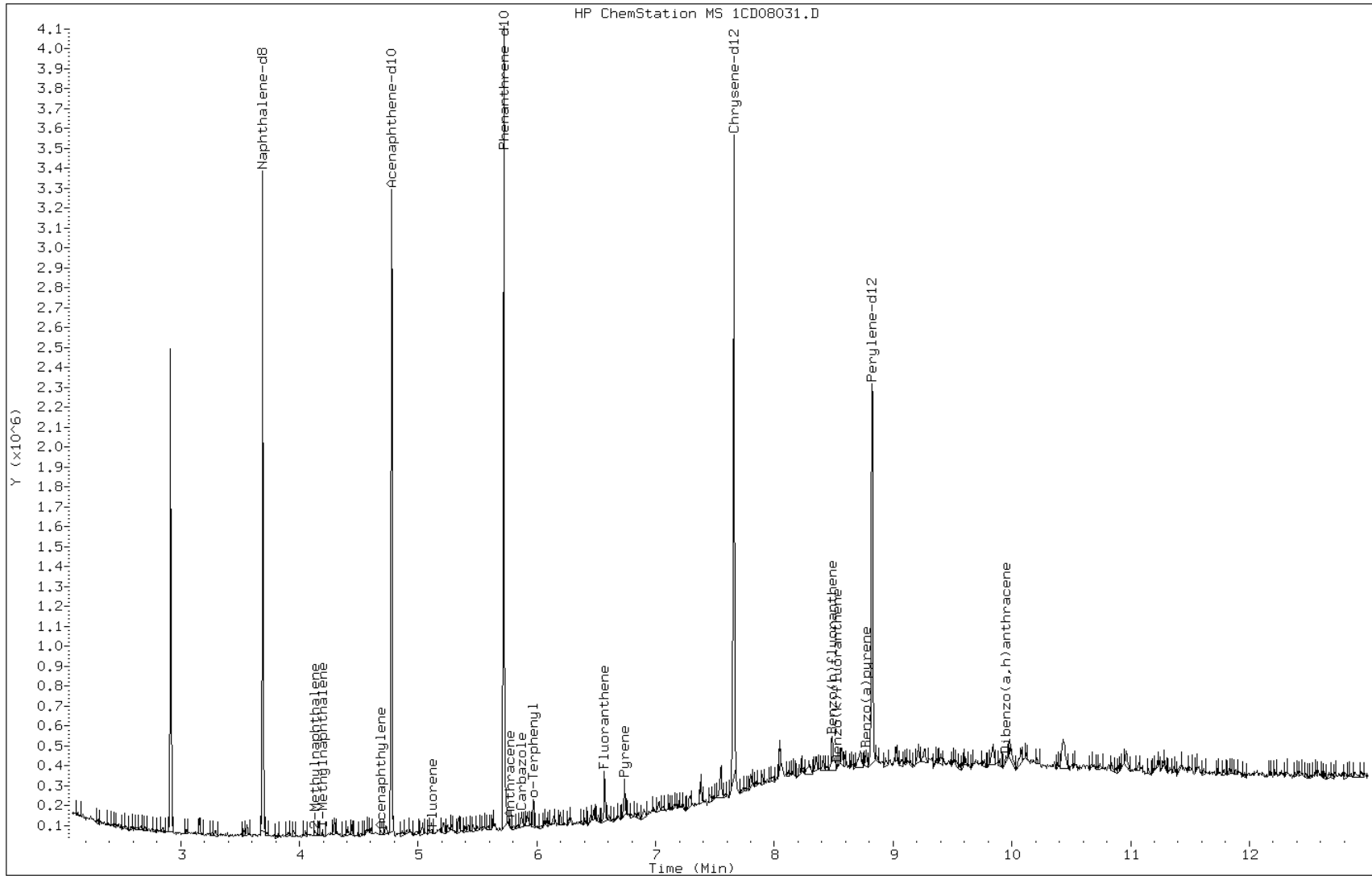
Date: 08-APR-2013 21:41

Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

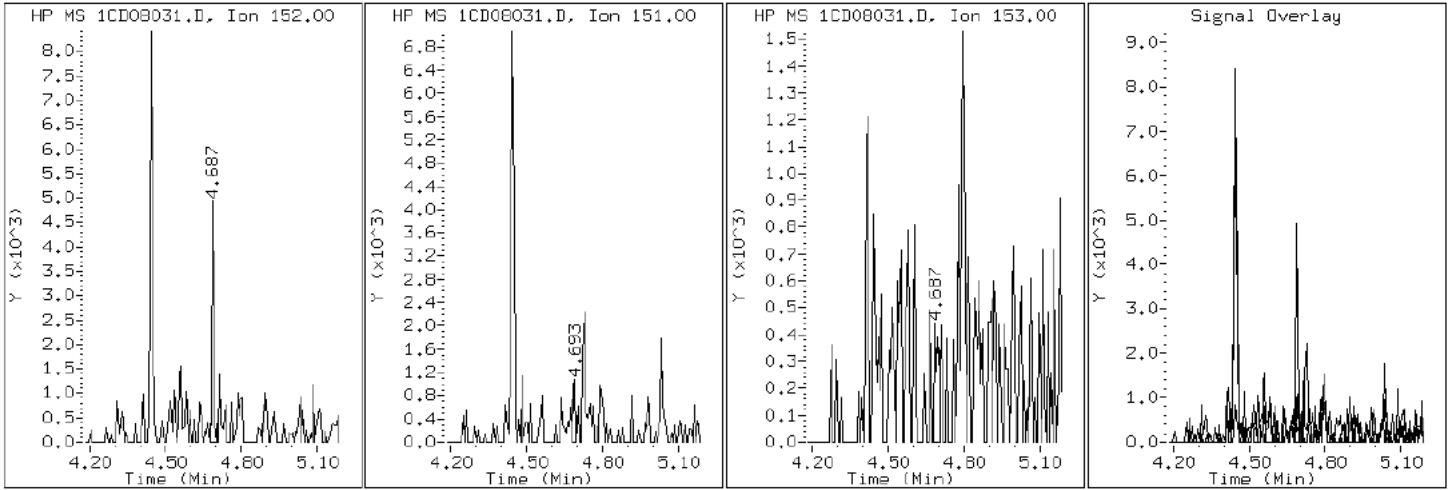
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

5 Acenaphthylene





Data File: 1CD08031.D

Date: 08-APR-2013 21:41

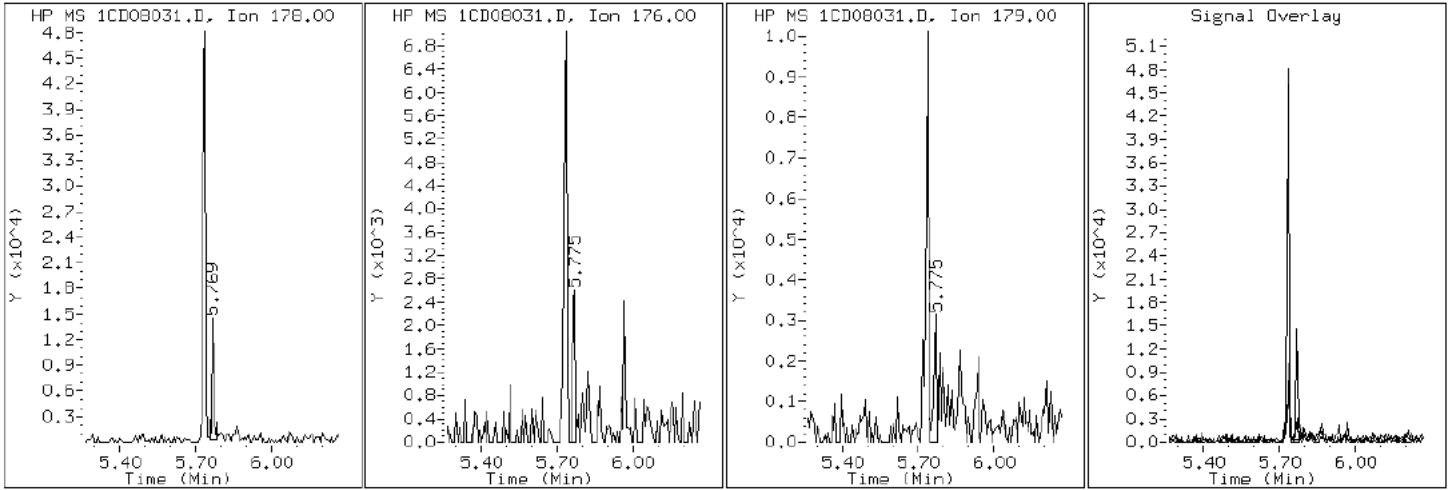
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

12 Anthracene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

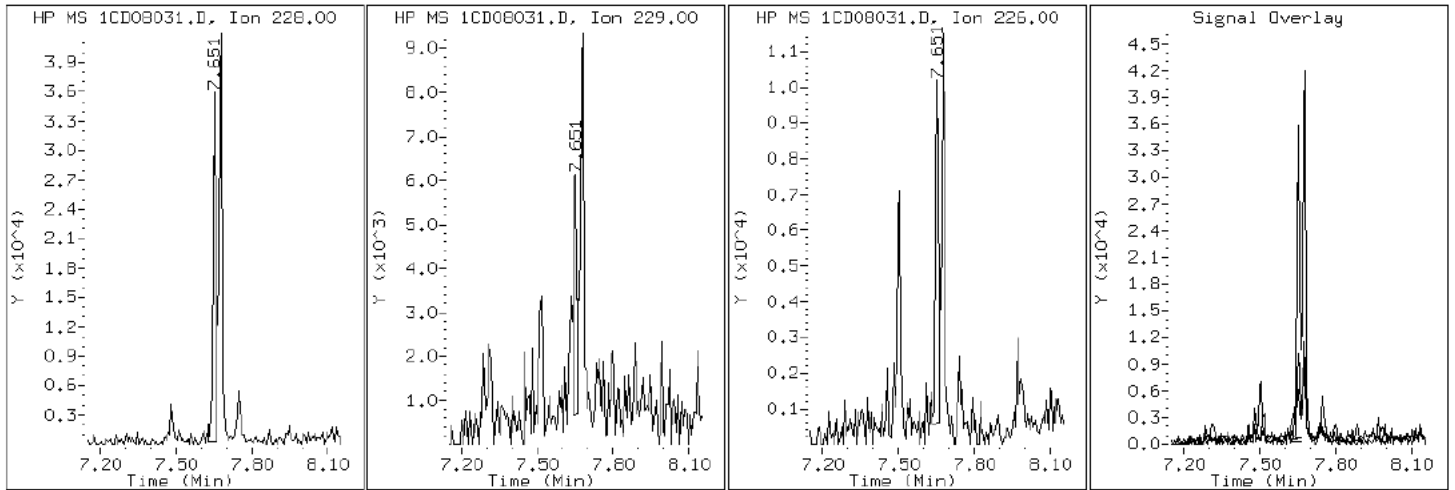
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

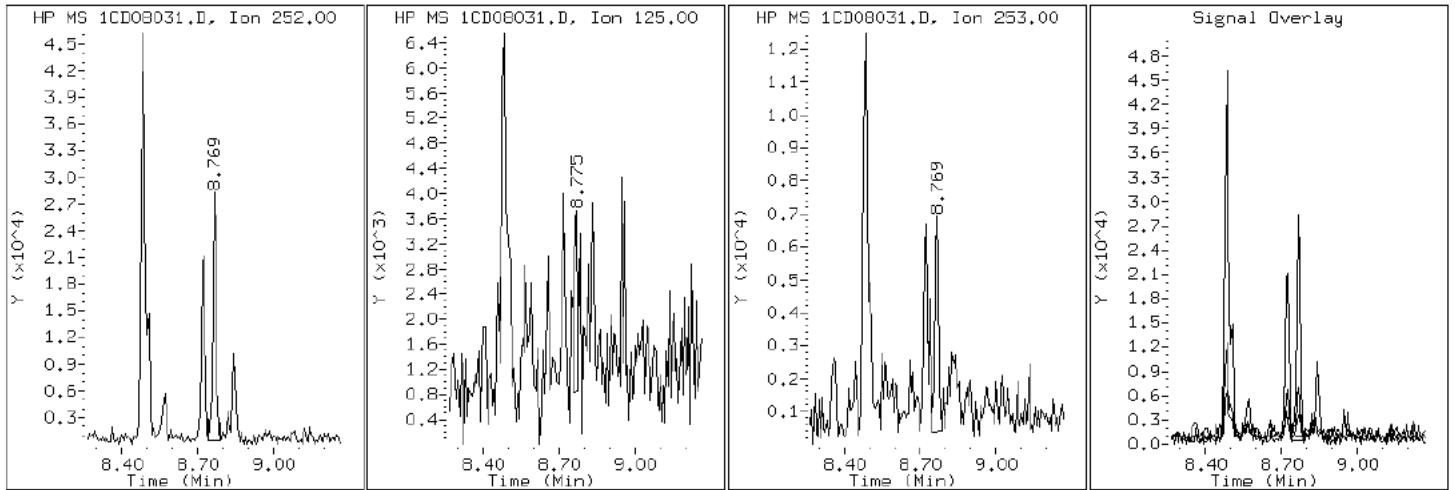
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

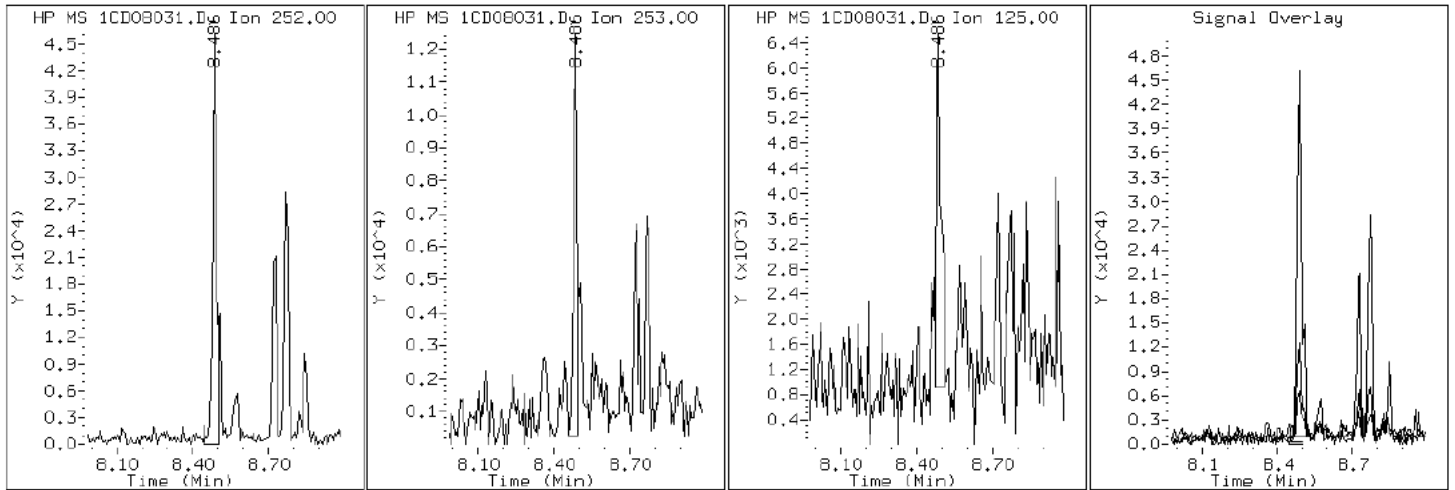
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

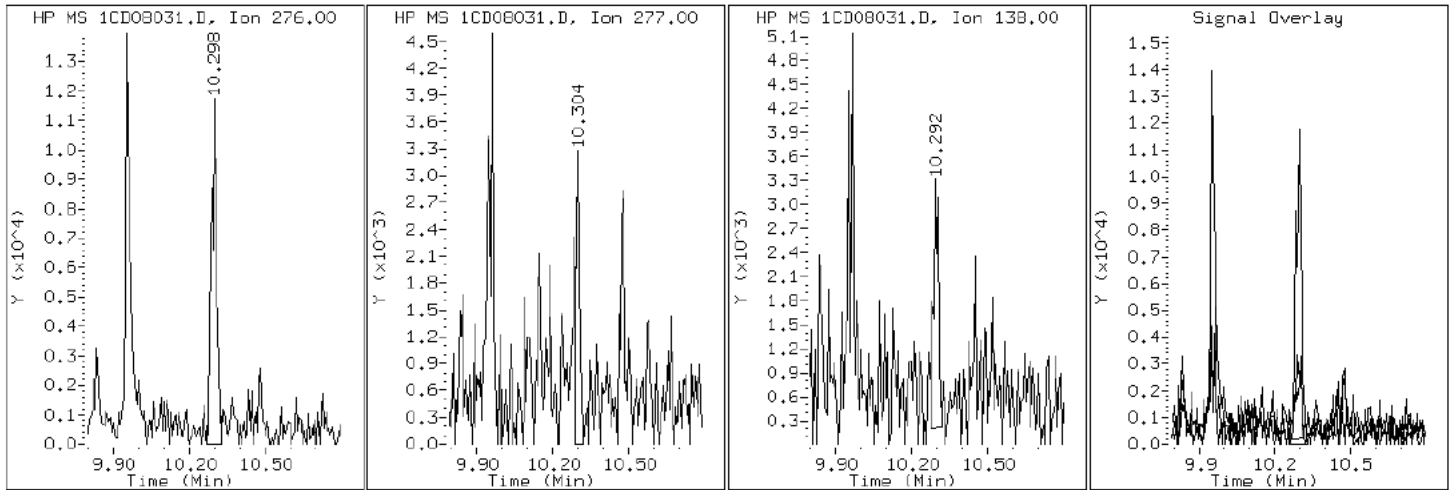
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

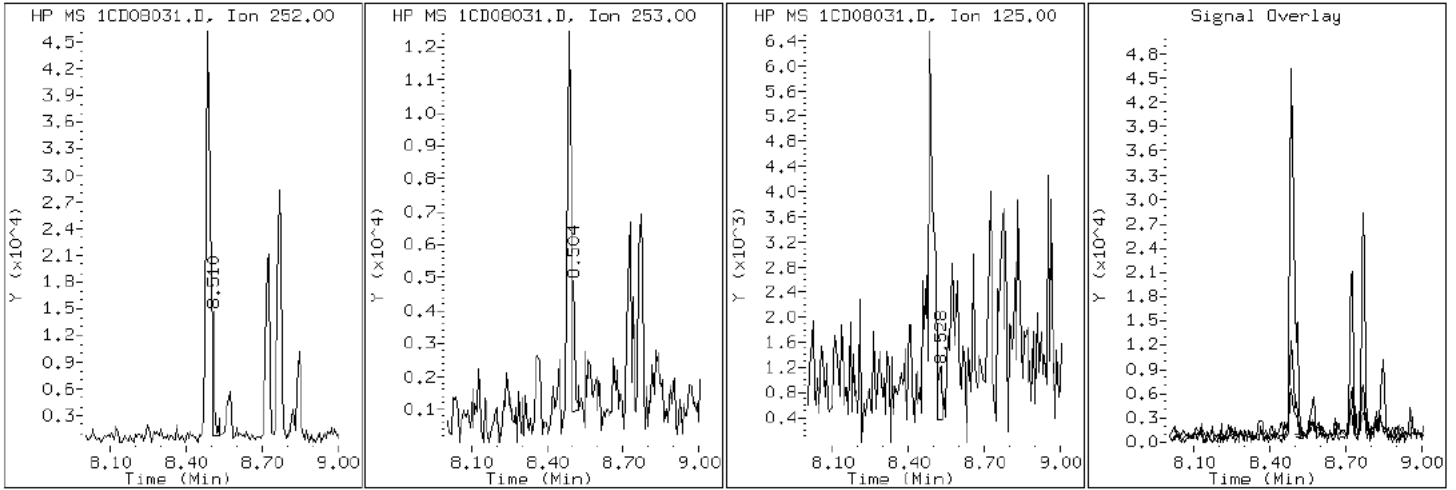
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

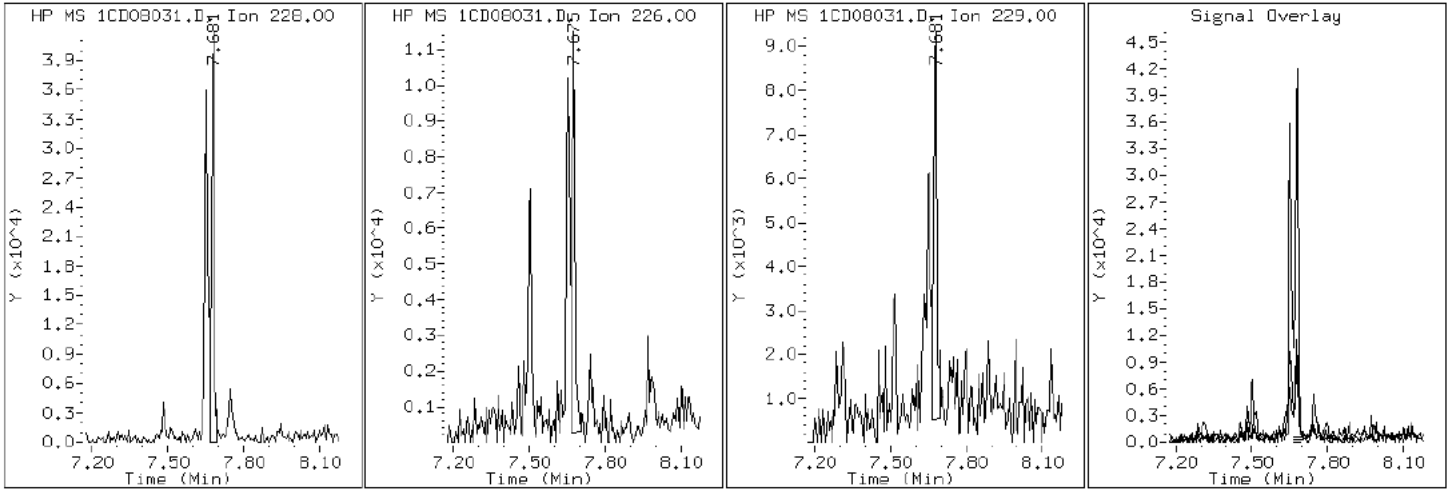
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

19 Chrysene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

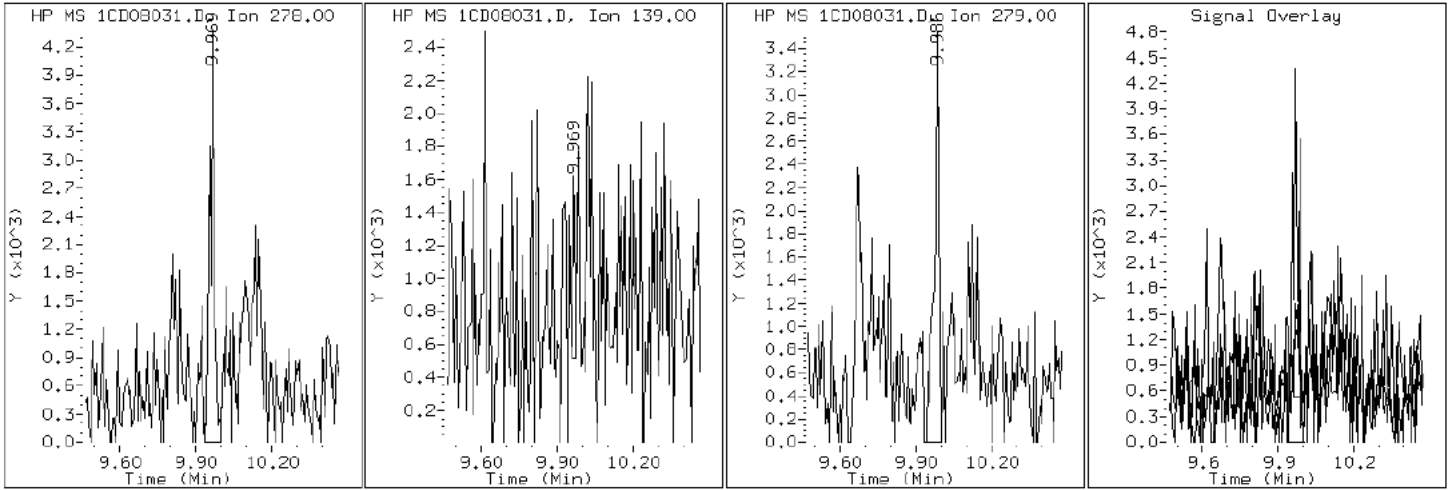
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

25 Dibenzo (a,h) anthracene





Data File: 1CD08031.D

Date: 08-APR-2013 21:41

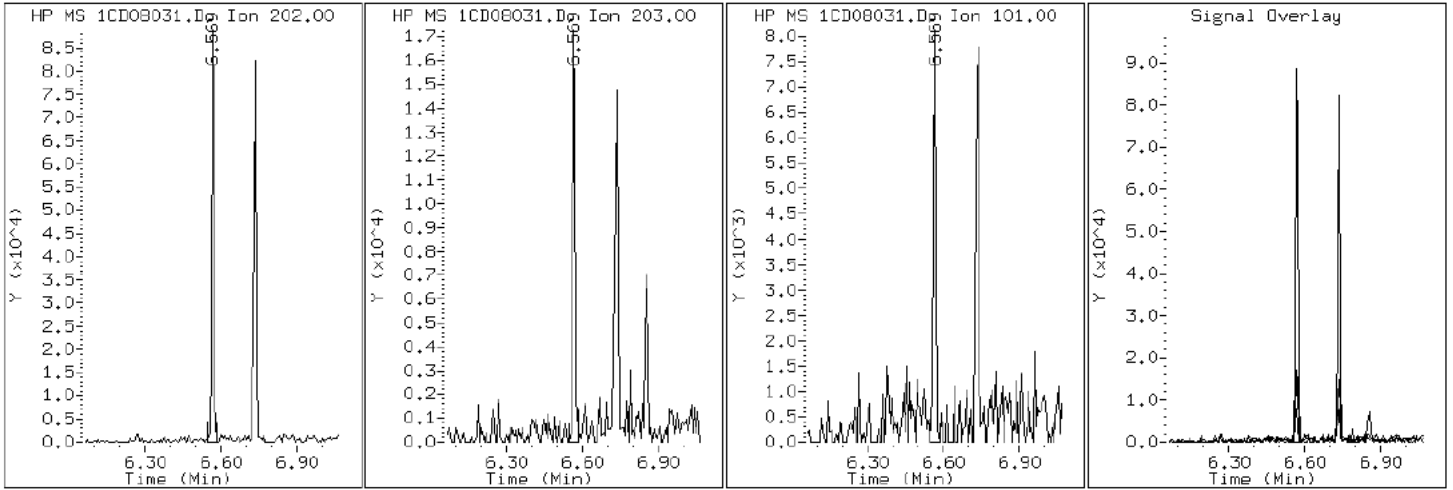
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

15 Fluoranthene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

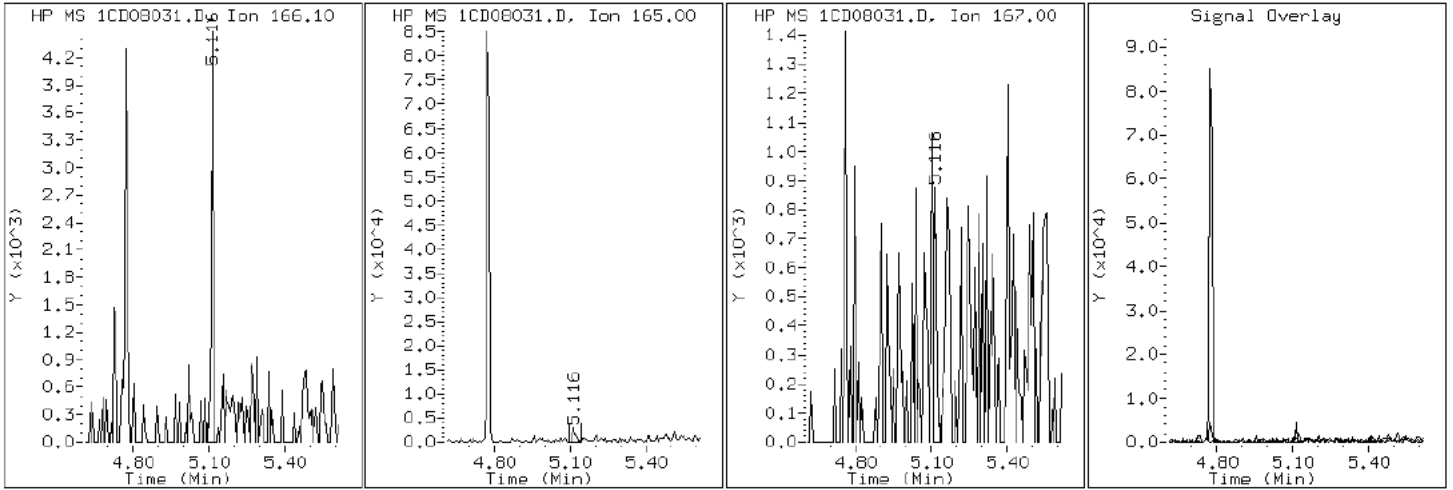
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

9 Fluorene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

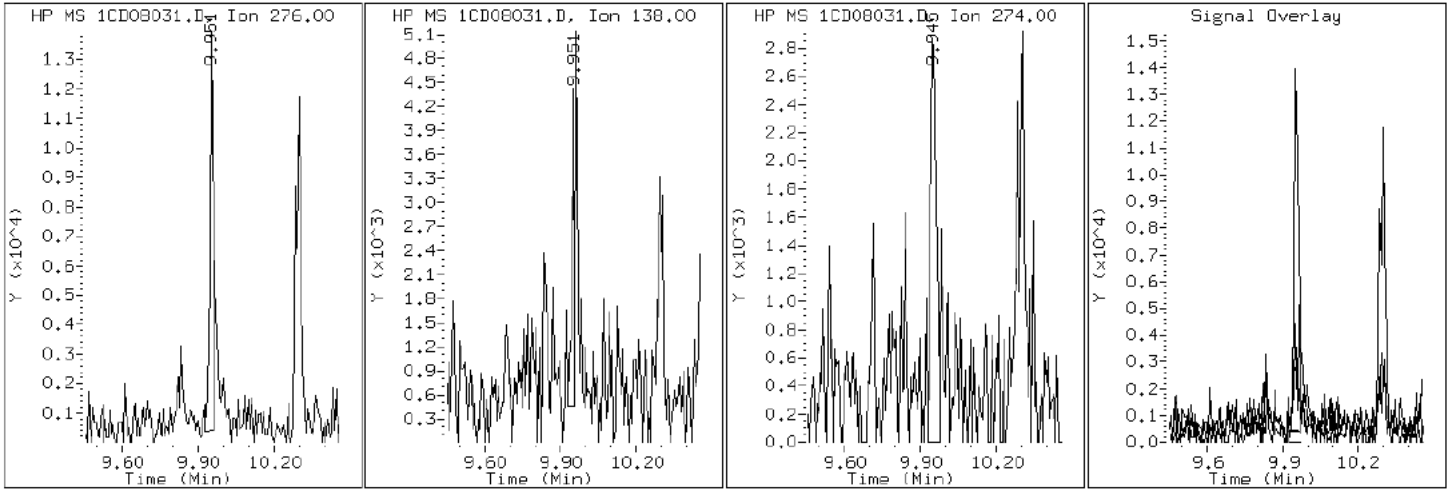
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

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



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

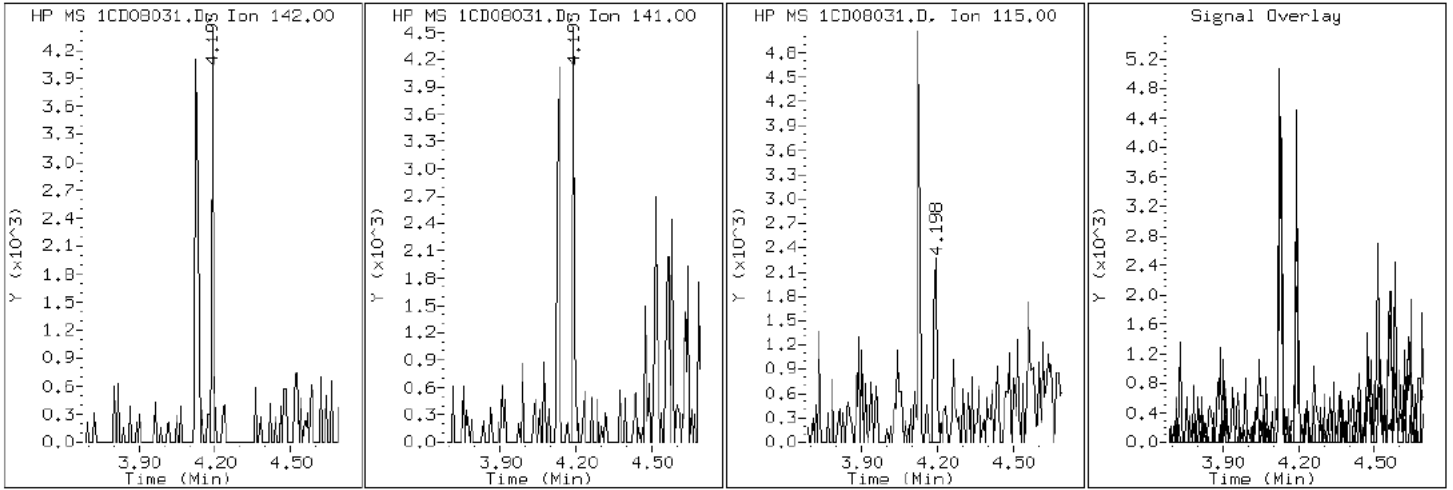
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

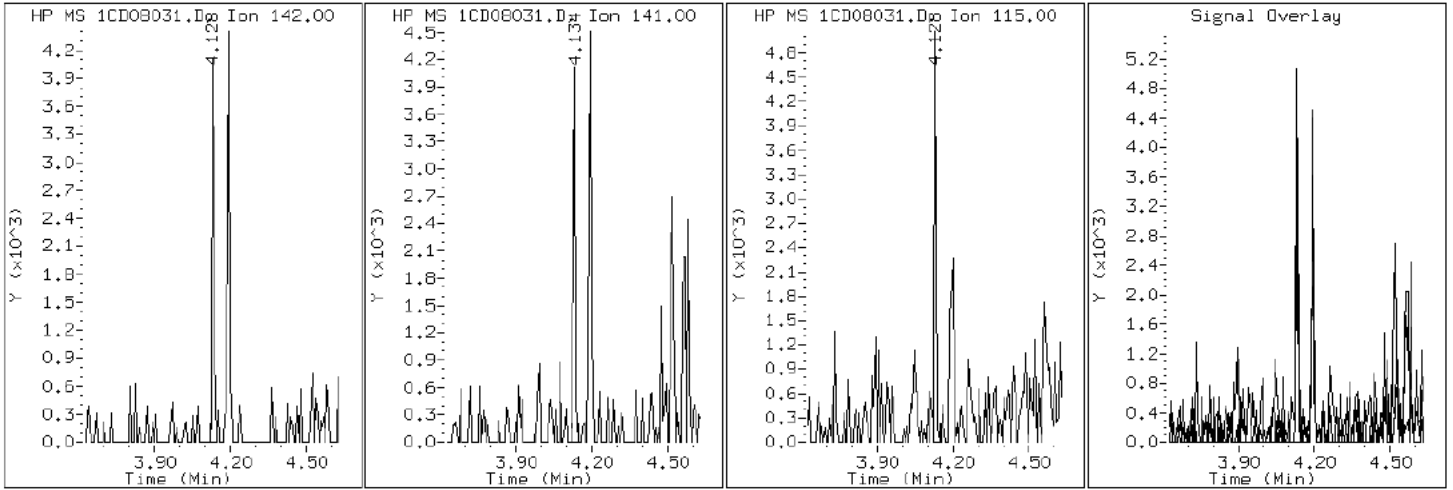
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

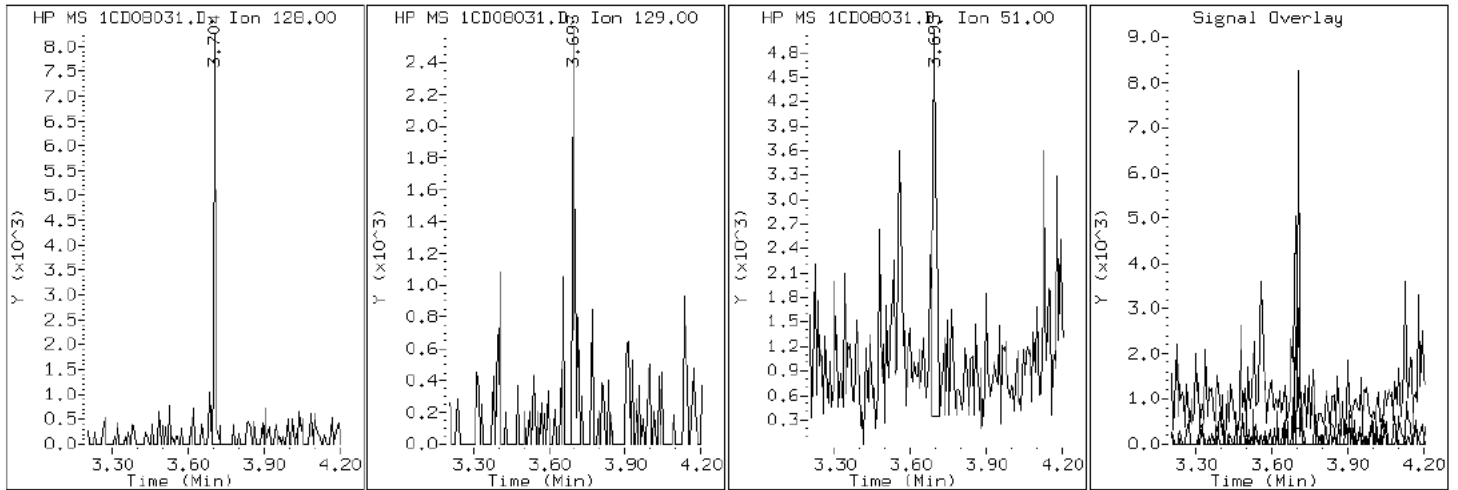
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

2 Naphthalene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

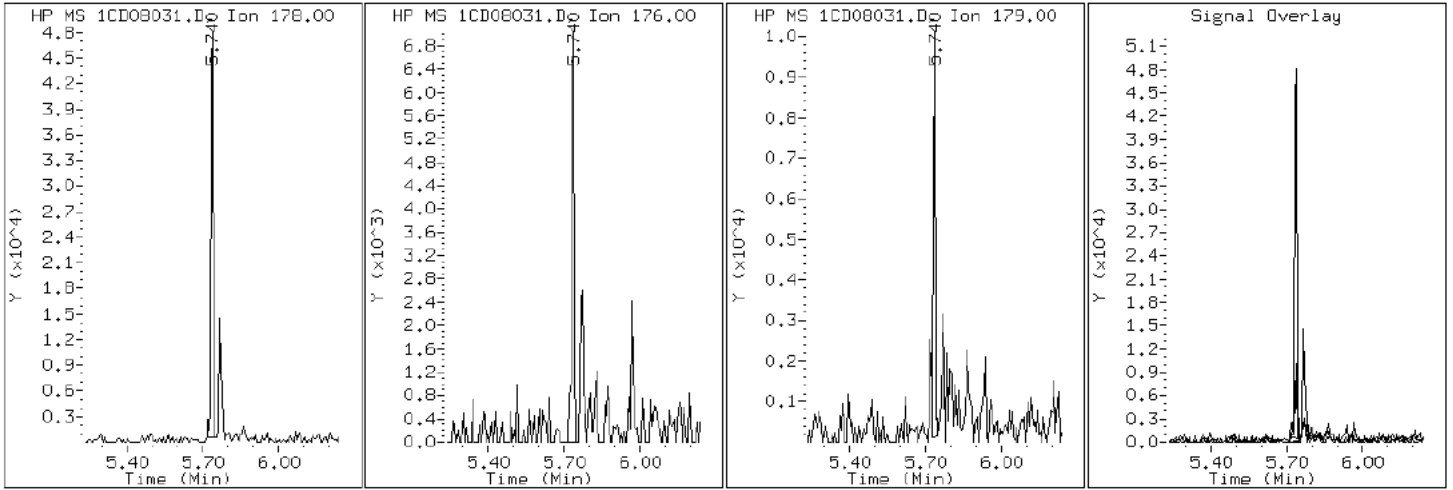
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

11 Phenanthrene



Data File: 1CD08031.D

Date: 08-APR-2013 21:41

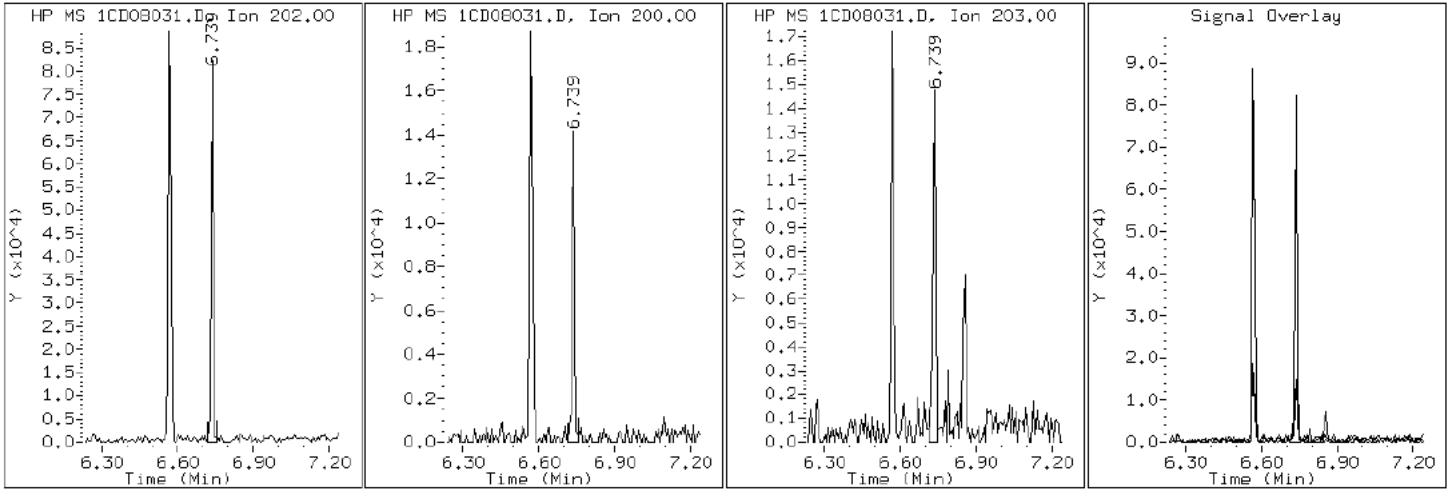
Client ID: CV0509AP-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-7-A

Operator: TP

16 Pyrene



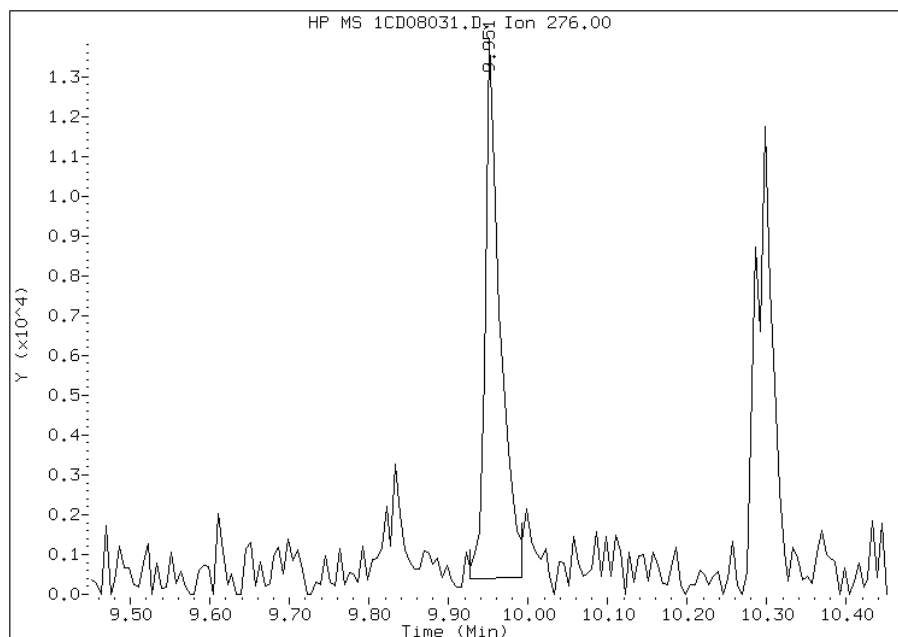


# Manual Integration Report

Data File: 1CD08031.D  
Inj. Date and Time: 08-APR-2013 21:41  
Instrument ID: BSMC5973.i  
Client ID: CV0509AP-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

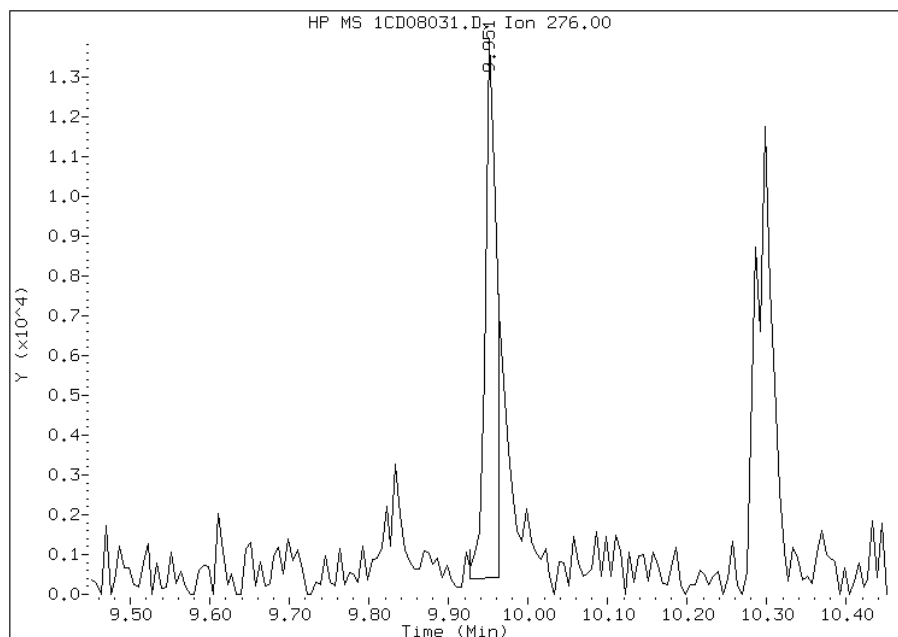
## Processing Integration Results

RT: 9.95  
Response: 17703  
Amount: 1  
Conc: 107



## Manual Integration Results

RT: 9.95  
Response: 13313  
Amount: 1  
Conc: 81



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:07  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0283A-CS Lab Sample ID: 680-88811-8  
 Matrix: Solid Lab File ID: 1CD08032.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:30  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.03(g) Date Analyzed: 04/08/2013 22:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 46.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	750	U	750	150
208-96-8	Acenaphthylene	38	J	300	38
120-12-7	Anthracene	69		63	32
56-55-3	Benzo[a]anthracene	310		60	29
50-32-8	Benzo[a]pyrene	220		78	39
205-99-2	Benzo[b]fluoranthene	440		92	46
191-24-2	Benzo[g,h,i]perylene	130	J	150	33
207-08-9	Benzo[k]fluoranthene	230		60	27
218-01-9	Chrysene	500		68	34
53-70-3	Dibenz(a,h)anthracene	58	J	150	31
206-44-0	Fluoranthene	340		150	30
86-73-7	Fluorene	31	J	150	31
193-39-5	Indeno[1,2,3-cd]pyrene	160		150	53
90-12-0	1-Methylnaphthalene	80	J	300	33
91-57-6	2-Methylnaphthalene	100	J	300	53
91-20-3	Naphthalene	92	J	300	33
85-01-8	Phenanthrene	250		60	29
129-00-0	Pyrene	430		150	28

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\1CD08032.D  
 Lab Smp Id: 680-88811-A-8-A Client Smp ID: CV0283A-CS  
 Inj Date : 08-APR-2013 22:00  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-8-A  
 Misc Info : 680-88811-A-8-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	15.030	Weight Extracted
M	46.813	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	590978	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	422350	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	822341	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	19491	2.17749	1089.5537	
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	784903	40.0000		
* 23 Perylene-d12	264		8.827	8.821	(1.000)	754063	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	2782	0.18328	91.7071(Q)	
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	2128	0.20595	103.0509	
4 1-Methylnaphthalene	142		4.198	4.192	(1.137)	1492	0.16047	80.2972(Q)	
5 Acenaphthylene	152		4.692	4.686	(0.983)	1340	0.07666	38.3580	
9 Fluorene	166		5.116	5.115	(1.071)	902	0.06250	31.2713(Q)	
11 Phenanthrene	178		5.739	5.739	(1.003)	11803	0.49281	246.5887	
12 Anthracene	178		5.774	5.768	(1.009)	3331	0.13720	68.6504	
13 Carbazole	167		5.880	5.880	(1.028)	2135	0.10264	51.3587	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	17760	0.67145	335.9754
16 Pyrene	202	6.739	6.739	(0.880)	18722	0.86108	430.8616
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	11222	0.62907	314.7670
19 Chrysene	228	7.680	7.674	(1.003)	22411	1.00200	501.3724
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	18600	0.87250	436.5761
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.963)	9587	0.46497	232.6603(Q)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	8664	0.43168	216.0010
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	5959	0.31259	156.4133(MH)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.129)	2030	0.11528	57.6813(M)
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	4974	0.25565	127.9211

QC Flag Legend

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

Data File: 1CD08032.D

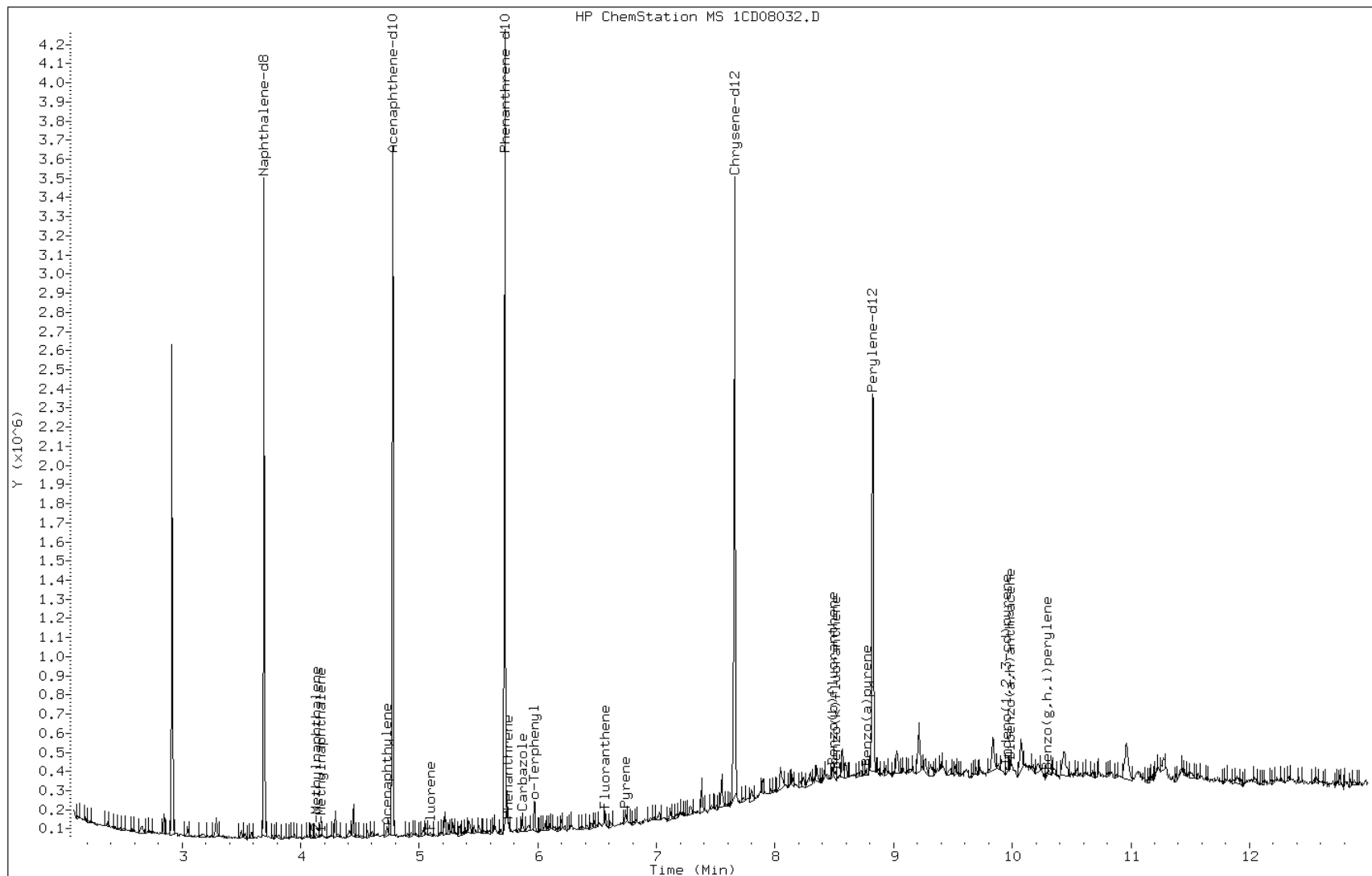
Date: 08-APR-2013 22:00

Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

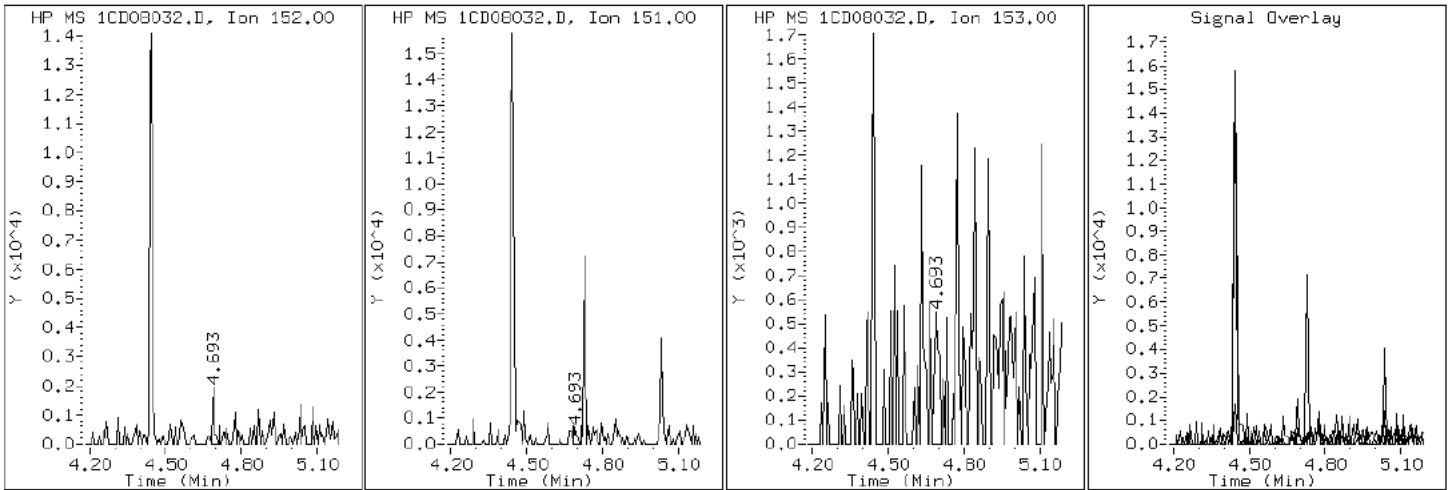
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

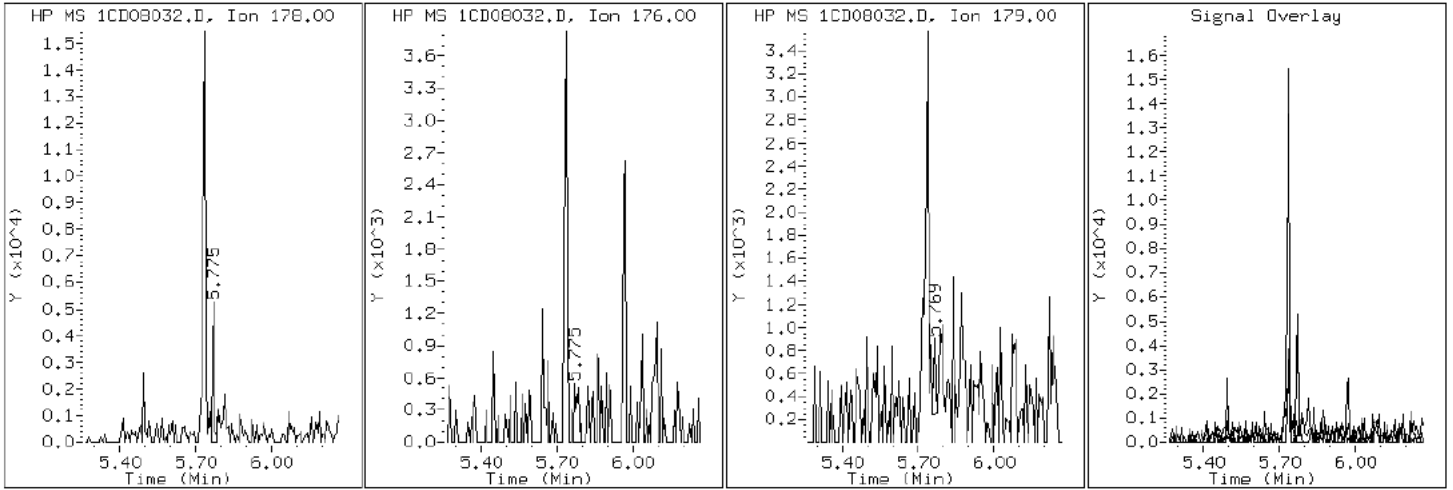
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

12 Anthracene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

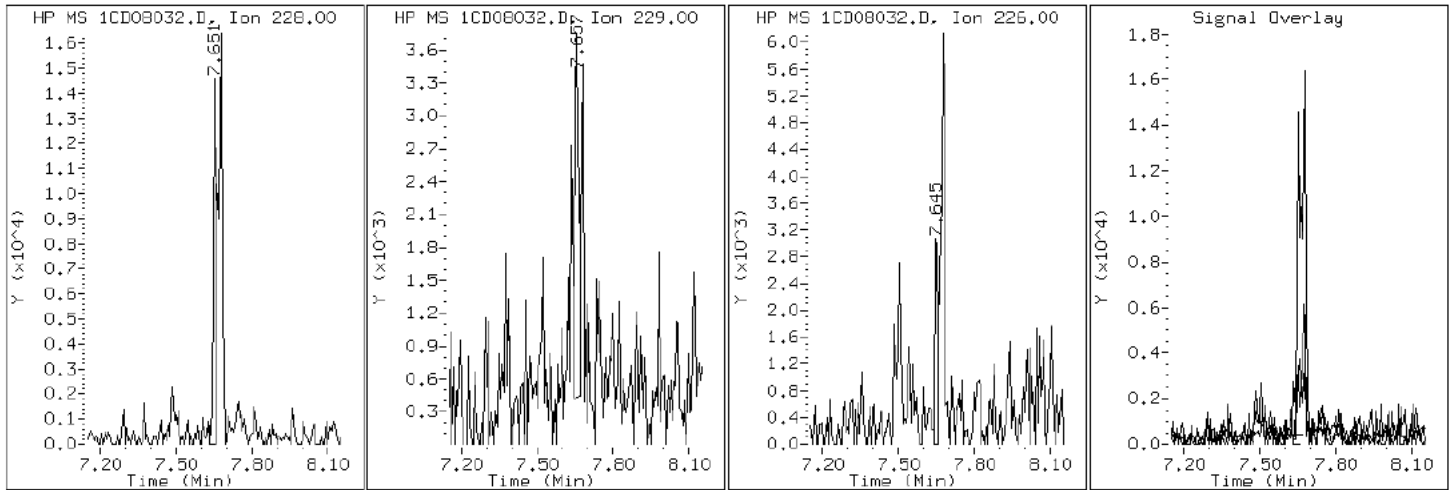
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

17 Benzo(a)anthracene





Data File: 1CD08032.D

Date: 08-APR-2013 22:00

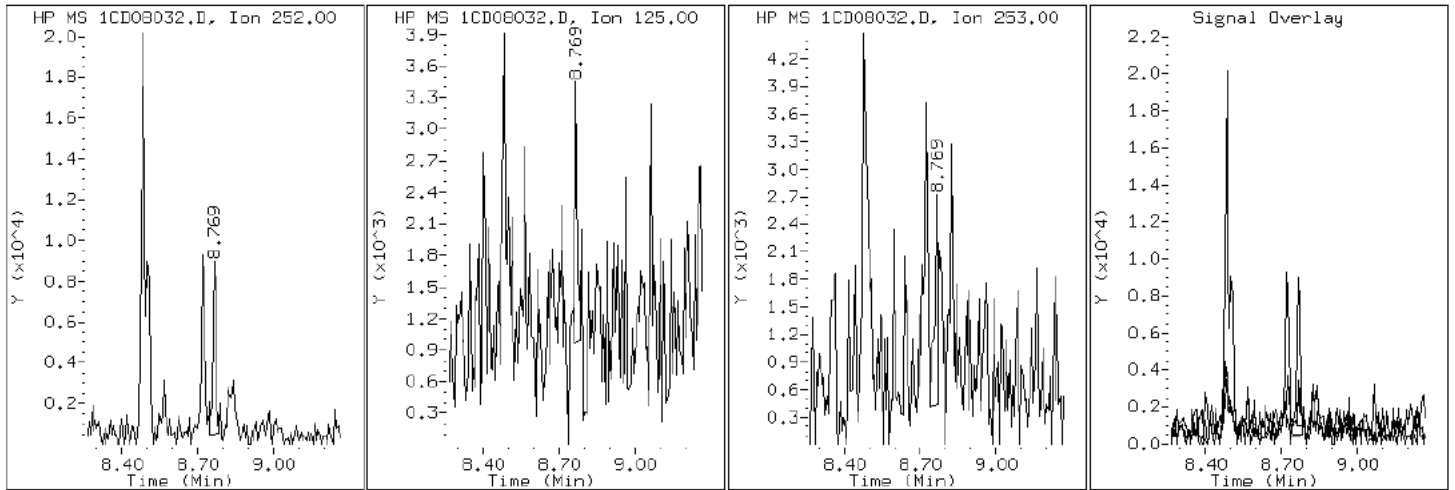
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

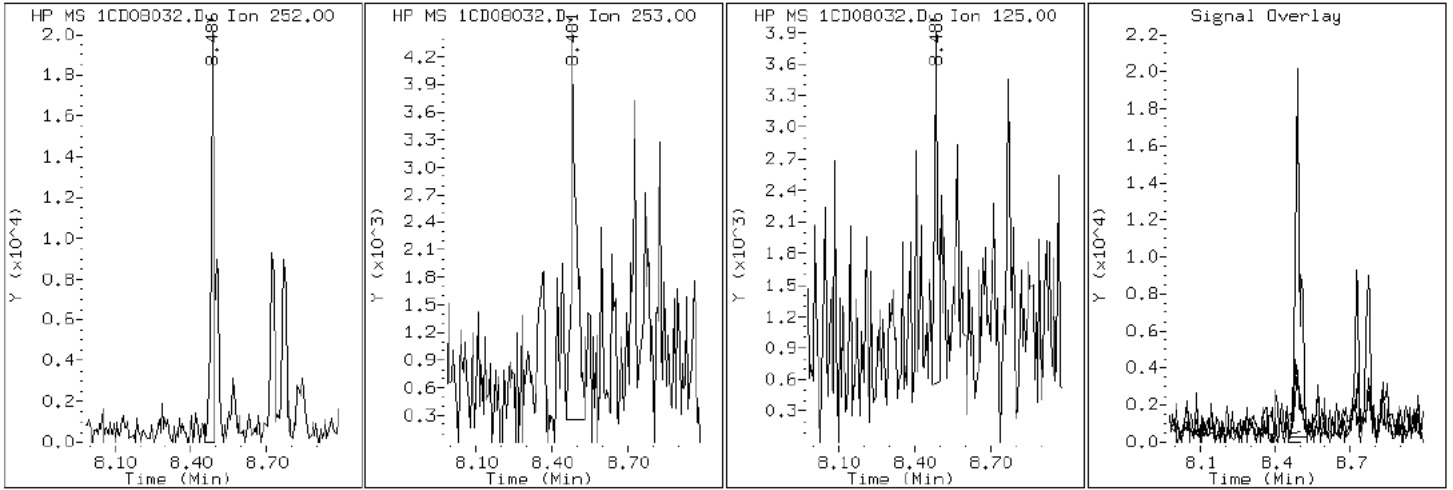
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

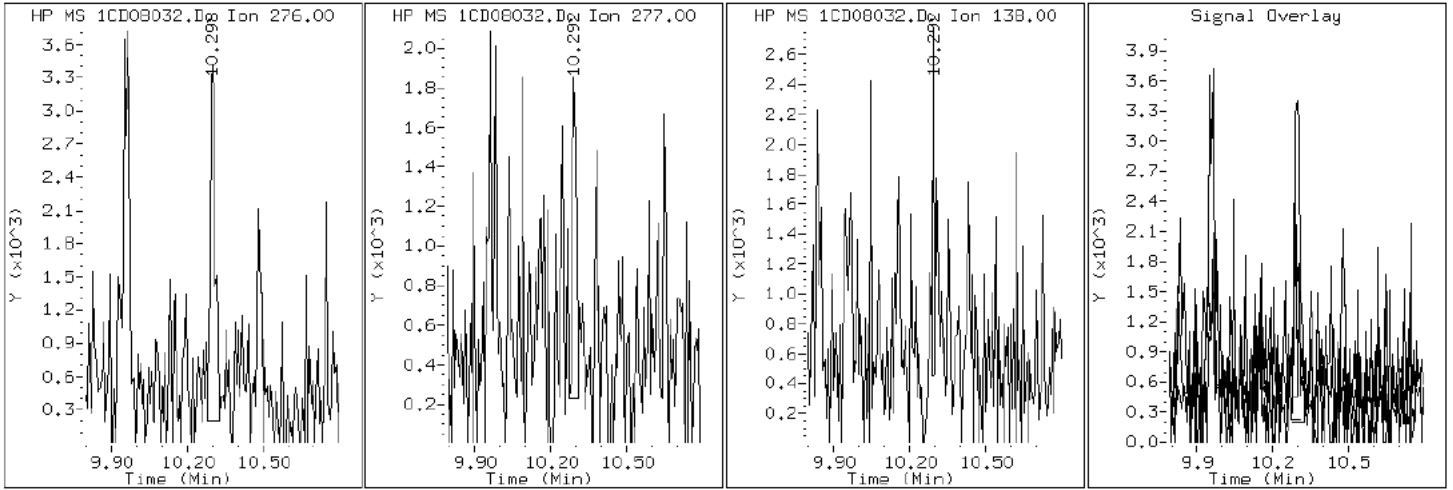
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

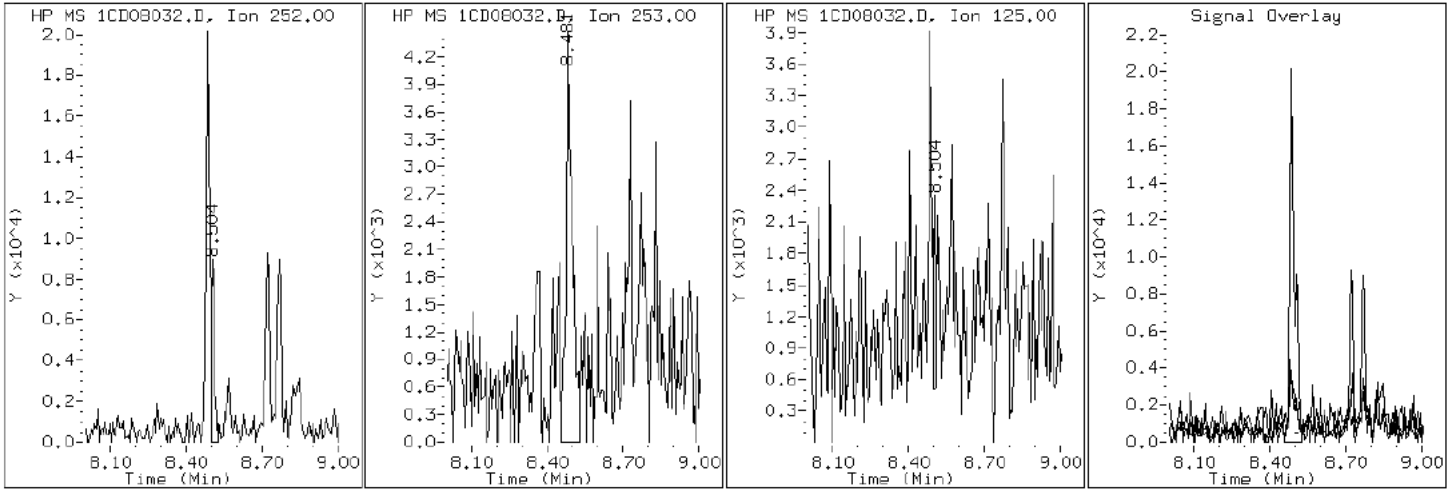
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

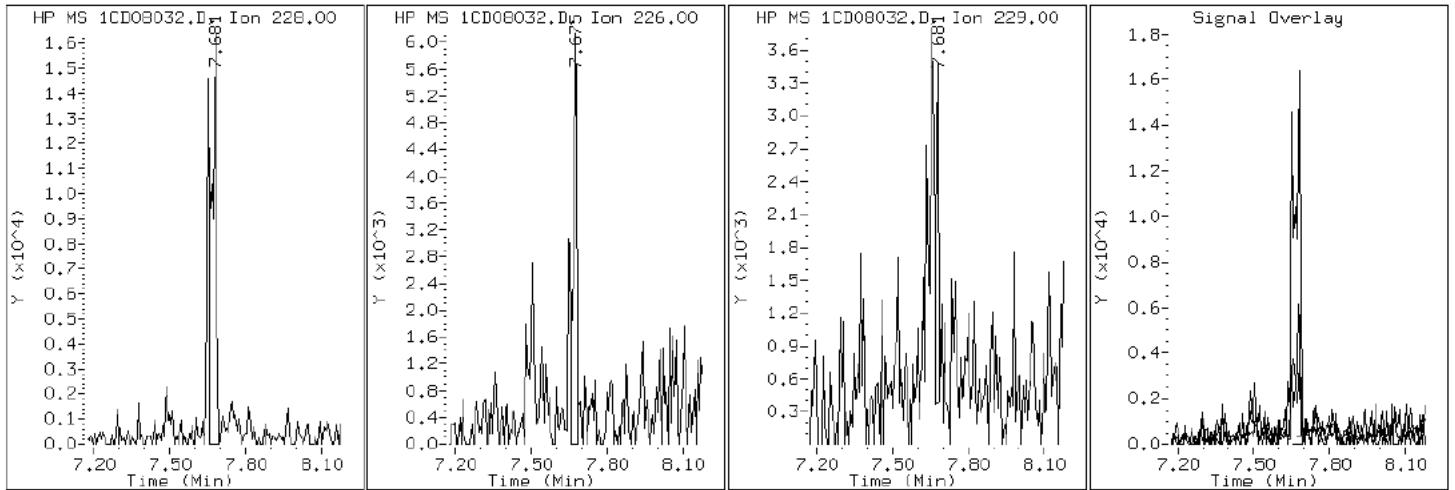
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

19 Chrysene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

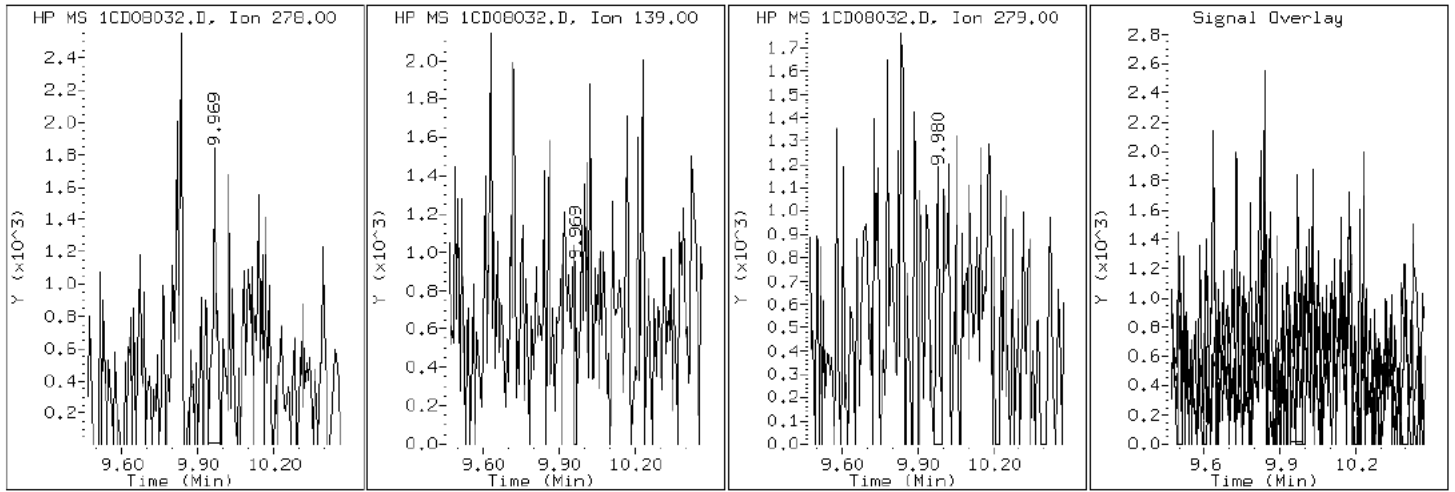
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

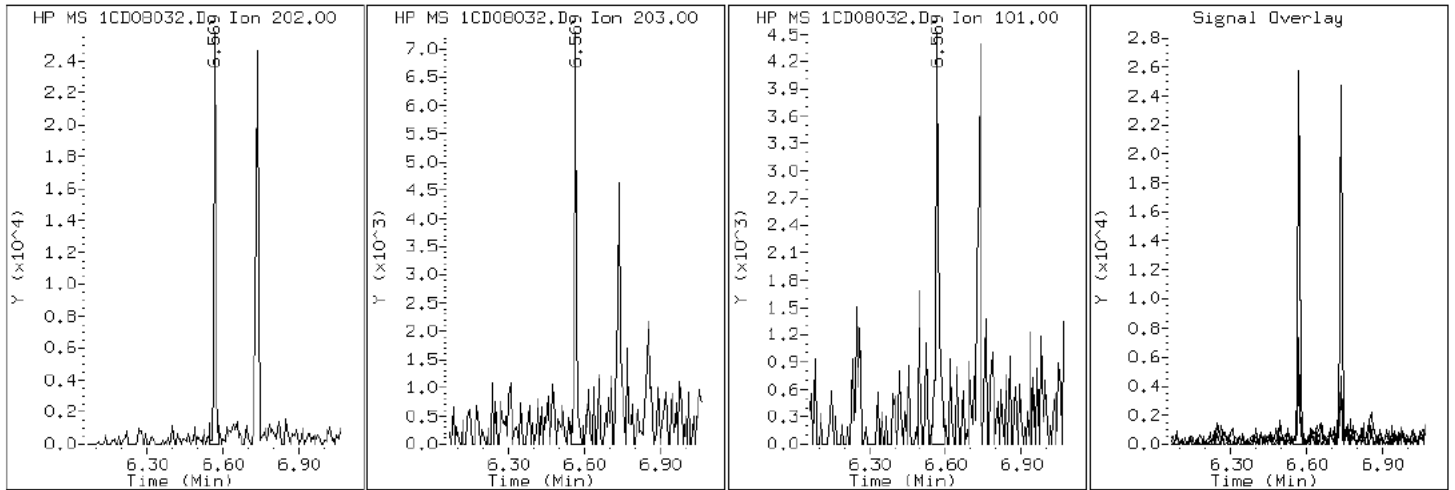
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

15 Fluoranthene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

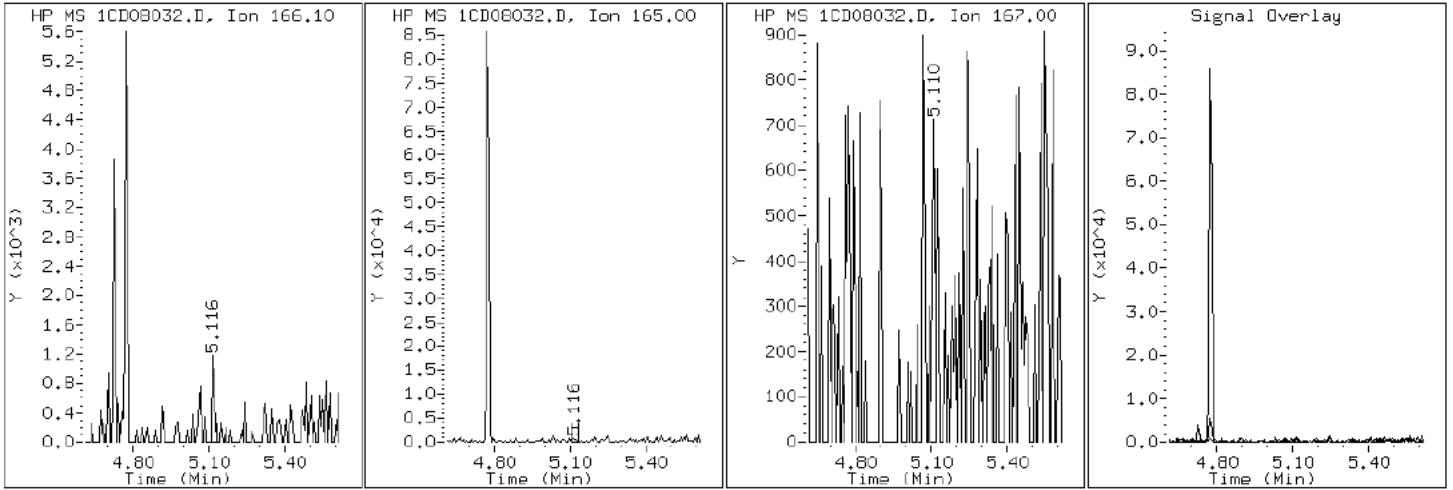
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

9 Fluorene





Data File: 1CD08032.D

Date: 08-APR-2013 22:00

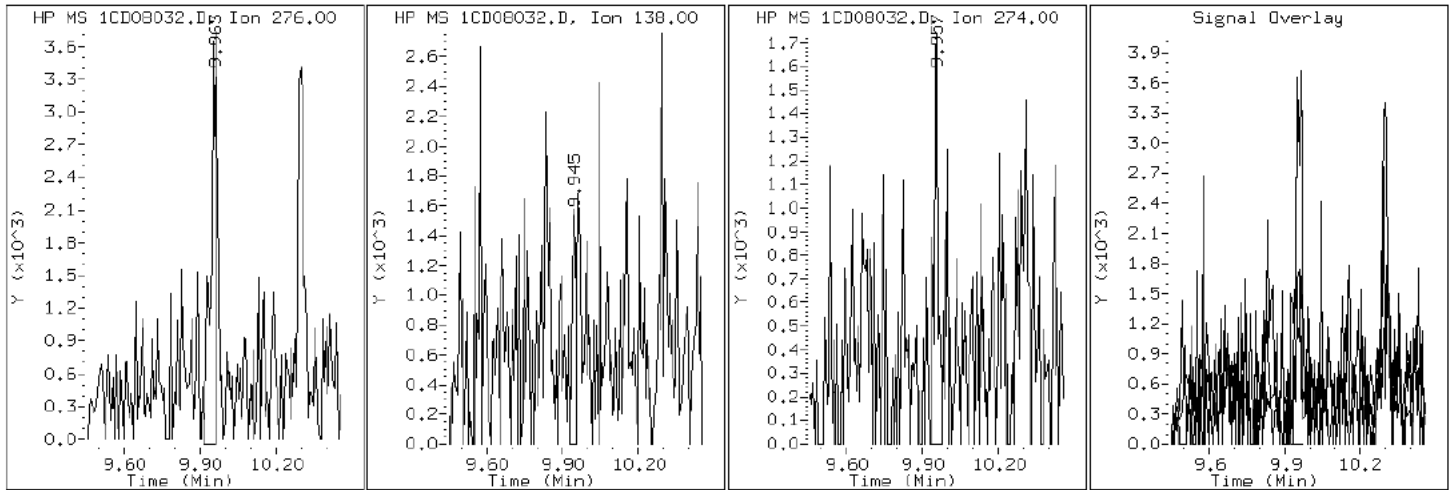
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

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



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

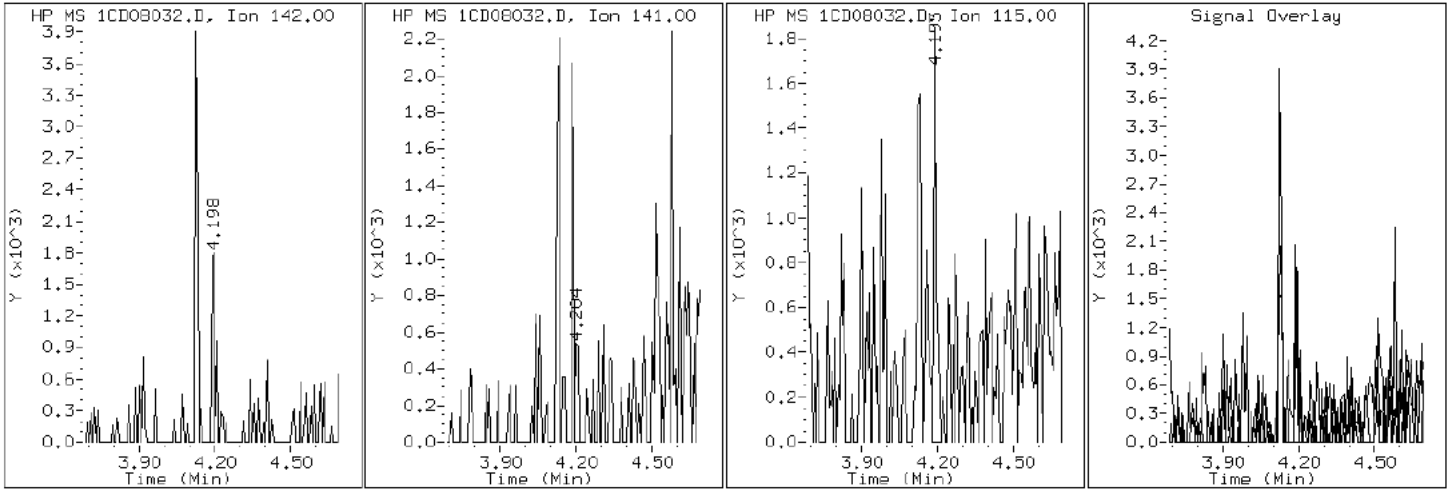
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

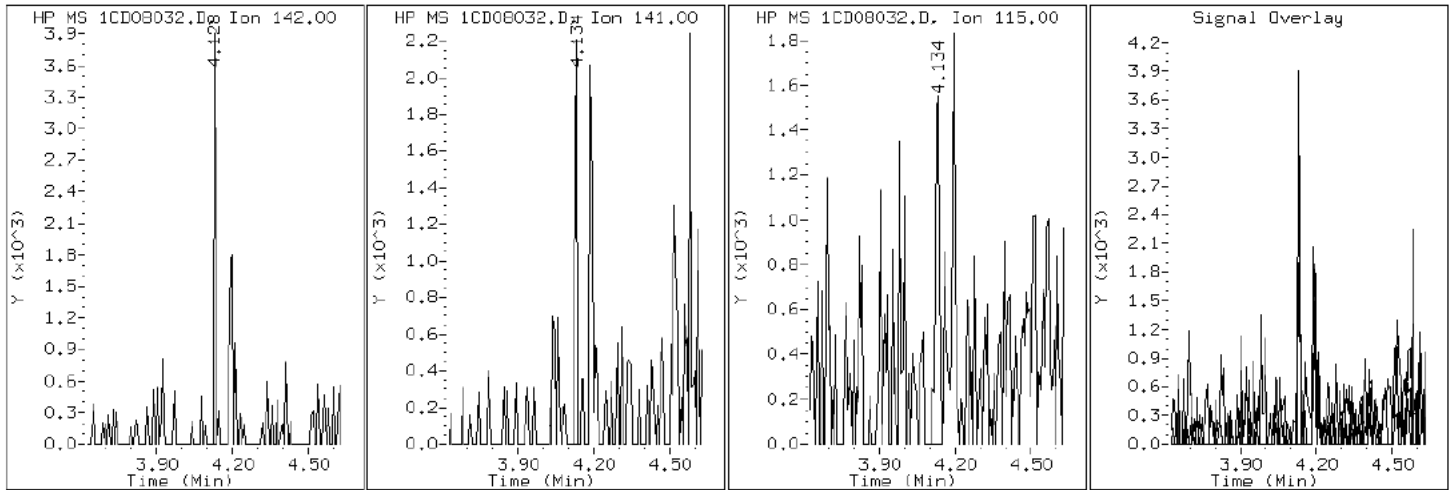
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

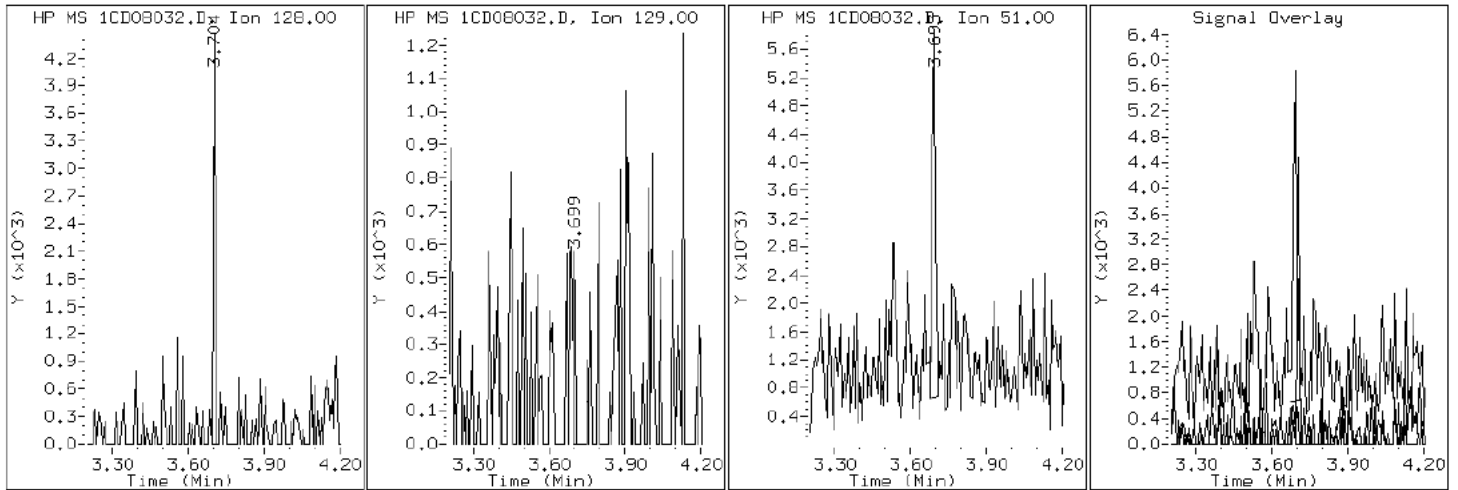
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

2 Naphthalene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

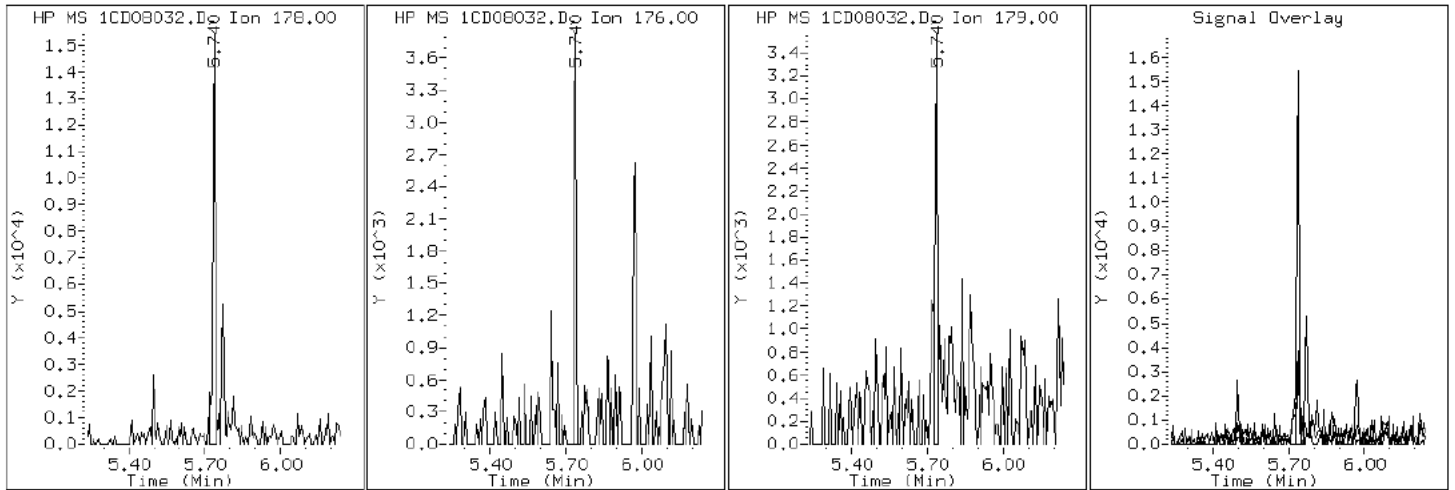
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

11 Phenanthrene



Data File: 1CD08032.D

Date: 08-APR-2013 22:00

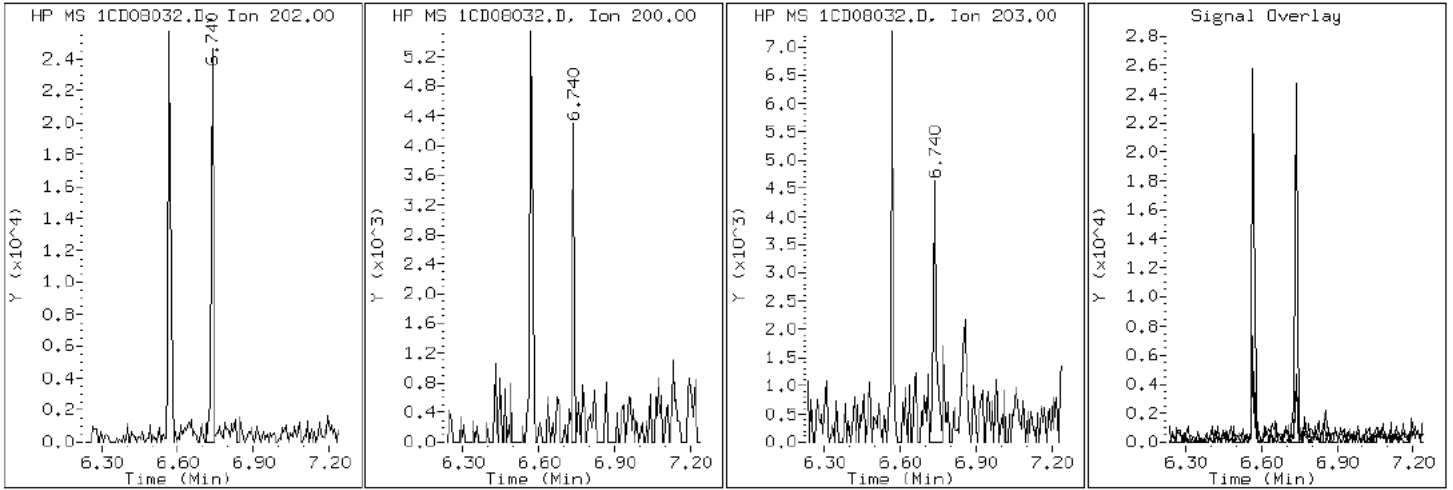
Client ID: CV0283A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-8-A

Operator: TP

16 Pyrene

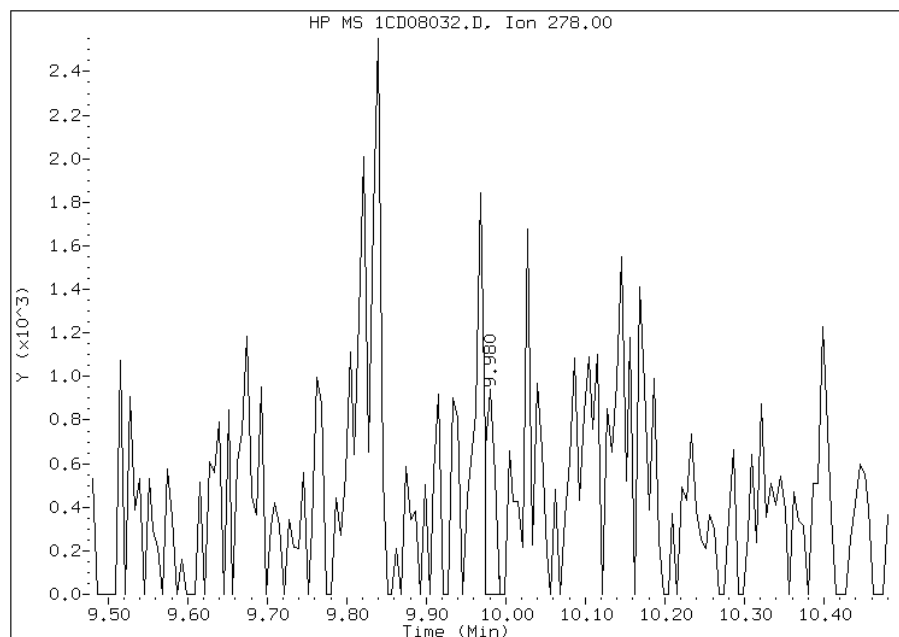


# Manual Integration Report

Data File: 1CD08032.D  
Inj. Date and Time: 08-APR-2013 22:00  
Instrument ID: BSMC5973.i  
Client ID: CV0283A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

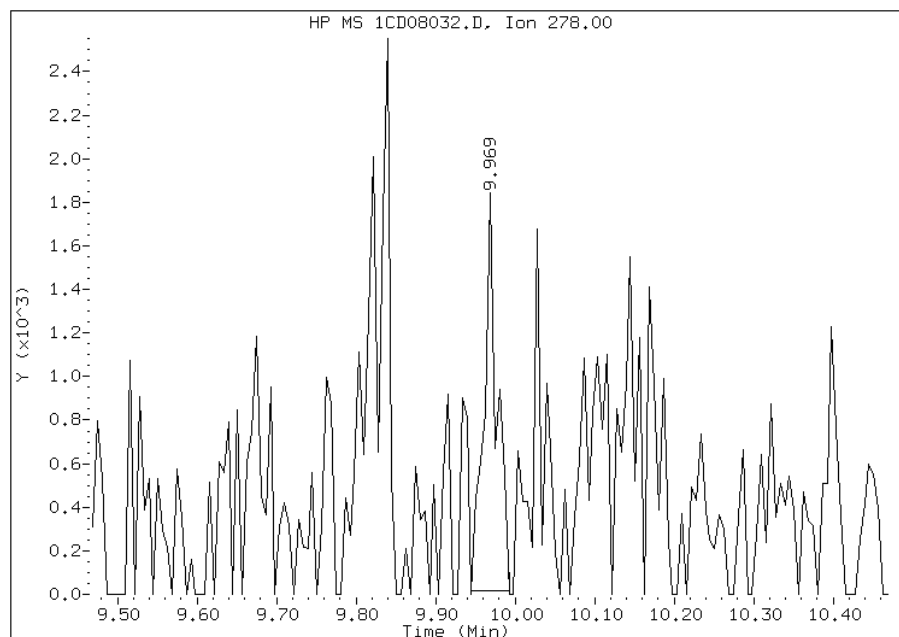
## Processing Integration Results

RT: 9.98  
Response: 762  
Amount: 0  
Conc: 22



## Manual Integration Results

RT: 9.97  
Response: 2030  
Amount: 0  
Conc: 58



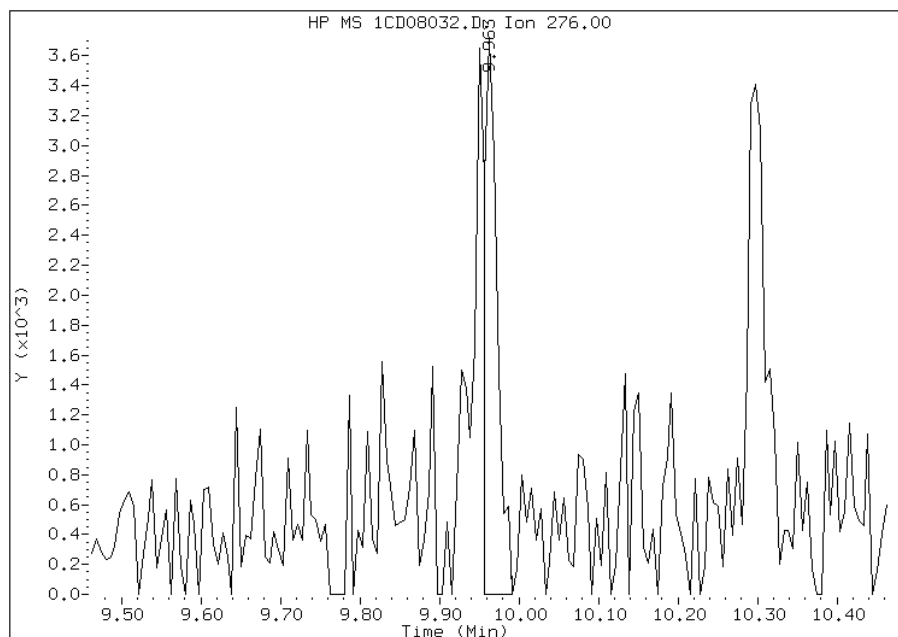
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:08  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08032.D  
Inj. Date and Time: 08-APR-2013 22:00  
Instrument ID: BSMC5973.i  
Client ID: CV0283A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

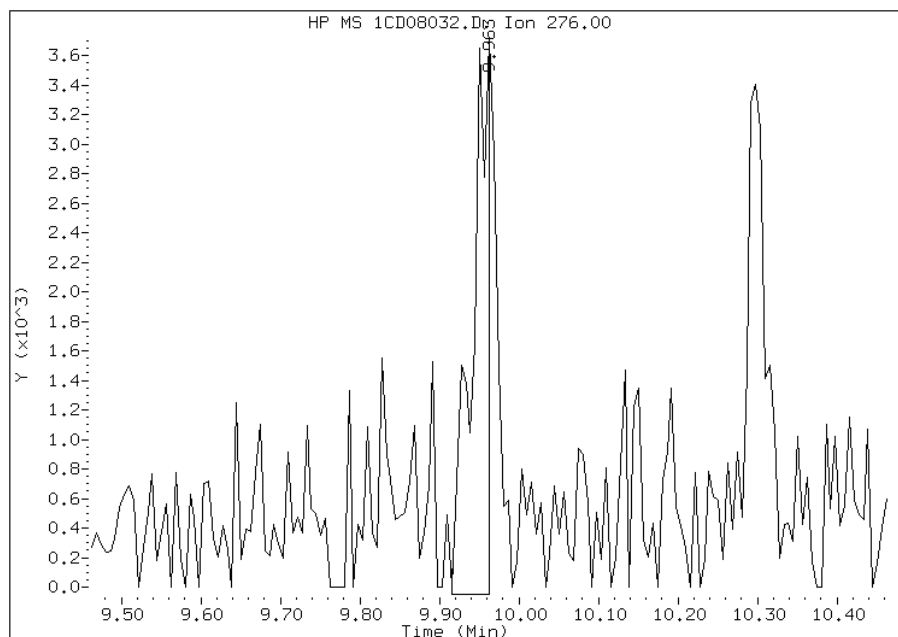
## Processing Integration Results

RT: 9.96  
Response: 4251  
Amount: 0  
Conc: 112



## Manual Integration Results

RT: 9.96  
Response: 5959  
Amount: 0  
Conc: 156



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:09  
Manual Integration Reason: Baseline Event



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0283B-CS Lab Sample ID: 680-88811-9  
 Matrix: Solid Lab File ID: 1CD08033.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:35  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/08/2013 22:18  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	53	J	230	28
120-12-7	Anthracene	68		48	24
56-55-3	Benzo[a]anthracene	450		45	22
50-32-8	Benzo[a]pyrene	330		59	29
205-99-2	Benzo[b]fluoranthene	440		69	35
191-24-2	Benzo[g,h,i]perylene	160		110	25
207-08-9	Benzo[k]fluoranthene	220		45	20
218-01-9	Chrysene	360		51	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	23
206-44-0	Fluoranthene	640		110	23
86-73-7	Fluorene	27	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	150		110	40
90-12-0	1-Methylnaphthalene	74	J	230	25
91-57-6	2-Methylnaphthalene	62	J	230	40
91-20-3	Naphthalene	75	J	230	25
85-01-8	Phenanthrene	320		45	22
129-00-0	Pyrene	670		110	21

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08033.D  
 Lab Smp Id: 680-88811-A-9-A Client Smp ID: CV0283B-CS  
 Inj Date : 08-APR-2013 22:18  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-9-A  
 Misc Info : 680-88811-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 33  
 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	15.130	Weight Extracted
M	30.000	% 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		3.692	3.692	(1.000)	581977	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	417689	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	795652	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	17781	2.09452	791.0578	
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	785055	40.0000		
* 23 Perylene-d12	264		8.827	8.821	(1.000)	733104	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	2958	0.19789	74.7376(Q)	
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	1670	0.16412	61.9857(Q)	
4 1-Methylnaphthalene	142		4.186	4.192	(1.134)	1799	0.19649	74.2092	
5 Acenaphthylene	152		4.692	4.686	(0.983)	2416	0.13976	52.7833	
9 Fluorene	166		5.115	5.115	(1.071)	1020	0.07146	26.9891(Q)	
11 Phenanthrene	178		5.739	5.739	(1.003)	19693	0.84982	320.9601	
12 Anthracene	178		5.768	5.768	(1.008)	4219	0.17960	67.8322	
13 Carbazole	167		5.880	5.880	(1.028)	2156	0.10713	40.4598	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	43395	1.69566	640.4166
16 Pyrene	202	6.739	6.739	(0.880)	38380	1.76487	666.5551
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	24253	1.20184	453.9095
19 Chrysene	228	7.674	7.674	(1.002)	21346	0.95420	360.3804
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	23959	1.15602	436.6035
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	11479	0.57265	216.2794(MH)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	17010	0.87175	329.2405
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	7179	0.38736	146.2972(M)
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	8235	0.43536	164.4265(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: 1CD08033.D

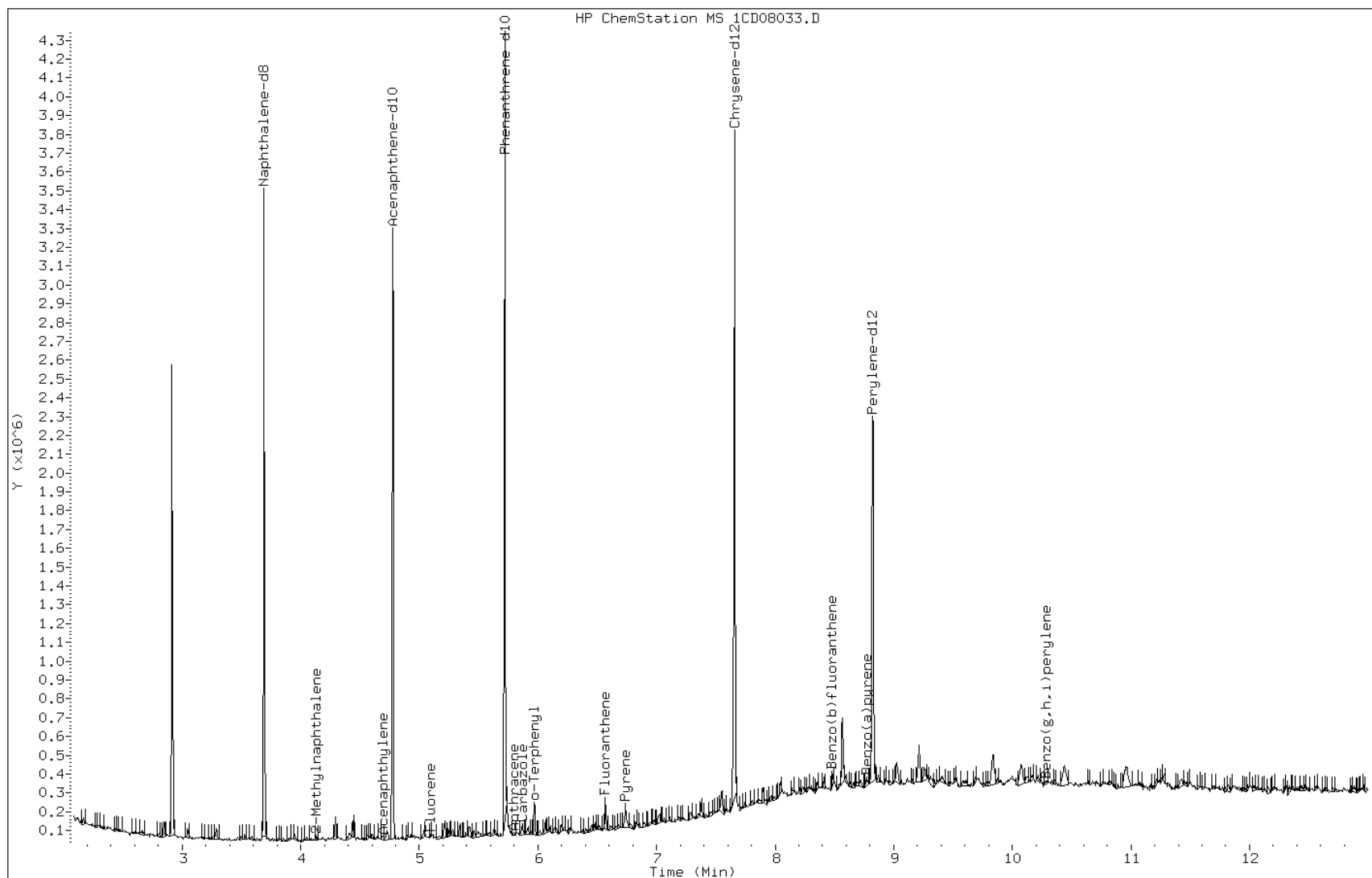
Date: 08-APR-2013 22:18

Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

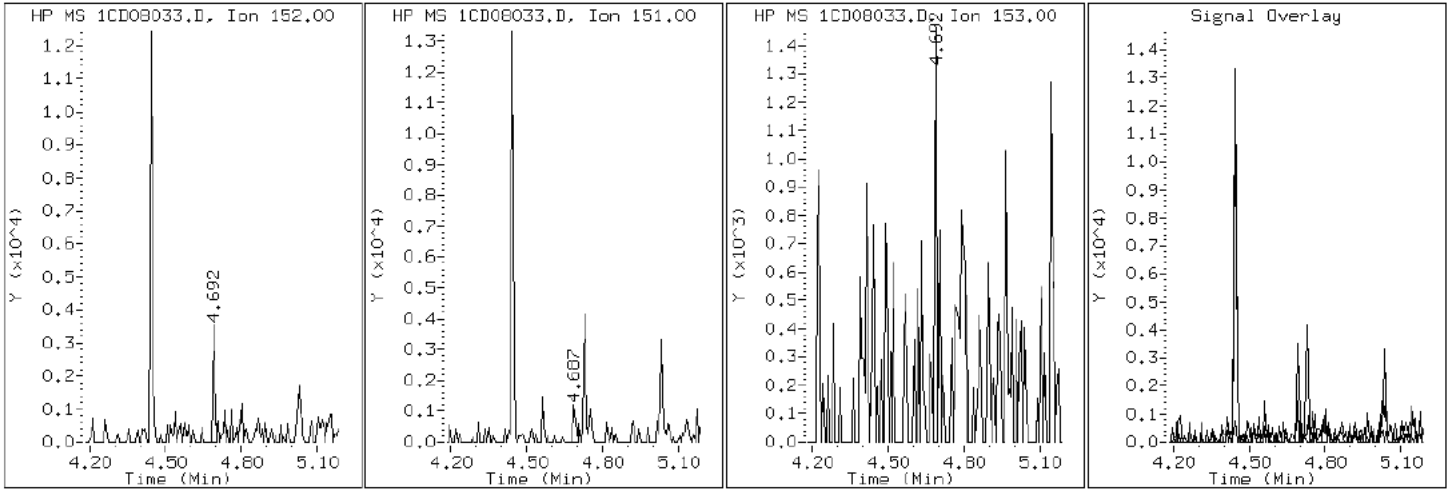
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

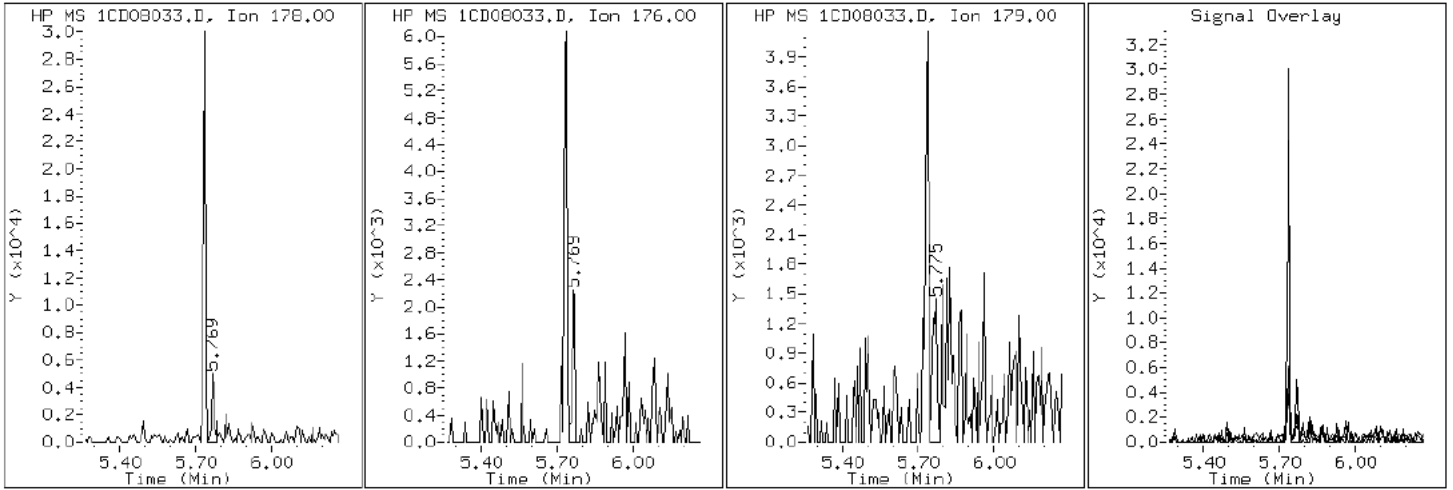
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

12 Anthracene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

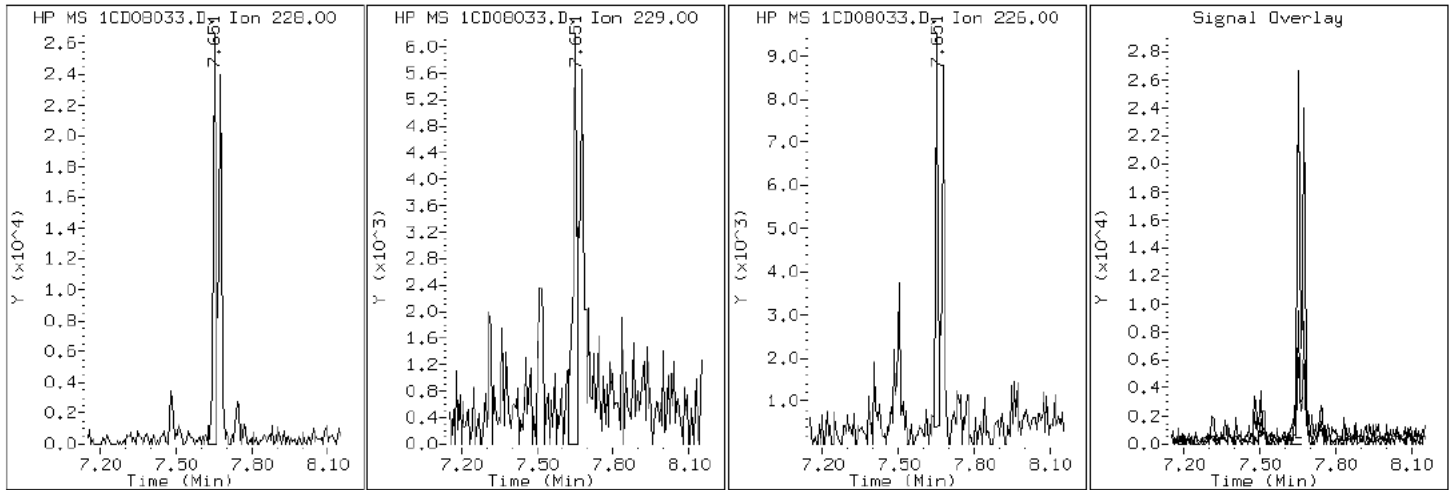
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

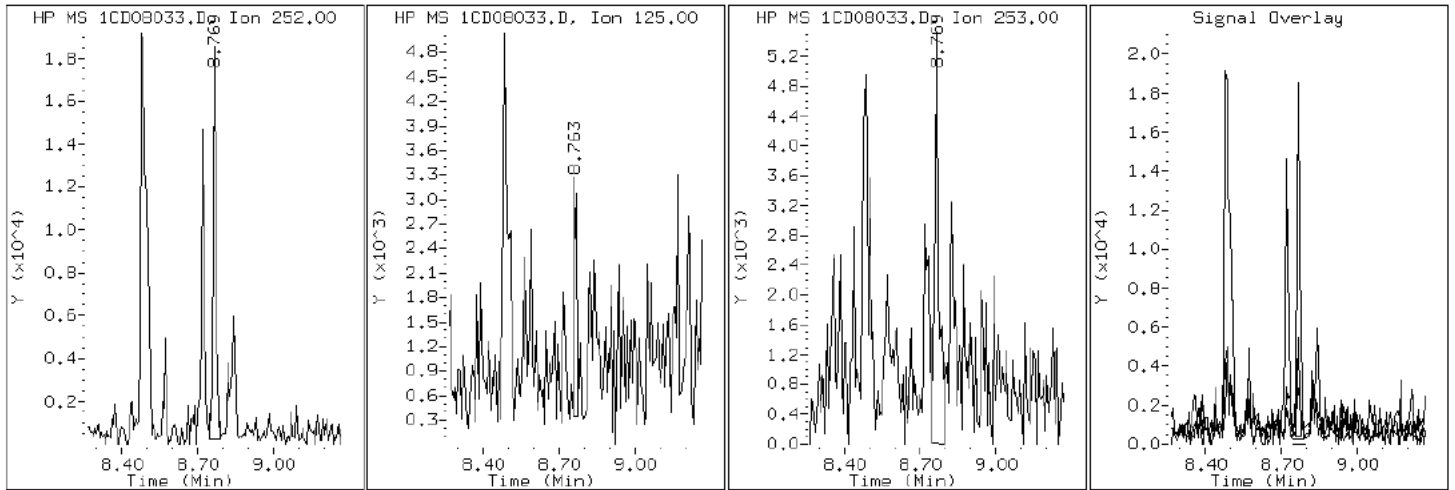
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

22 Benzo(a)pyrene





Data File: 1CD08033.D

Date: 08-APR-2013 22:18

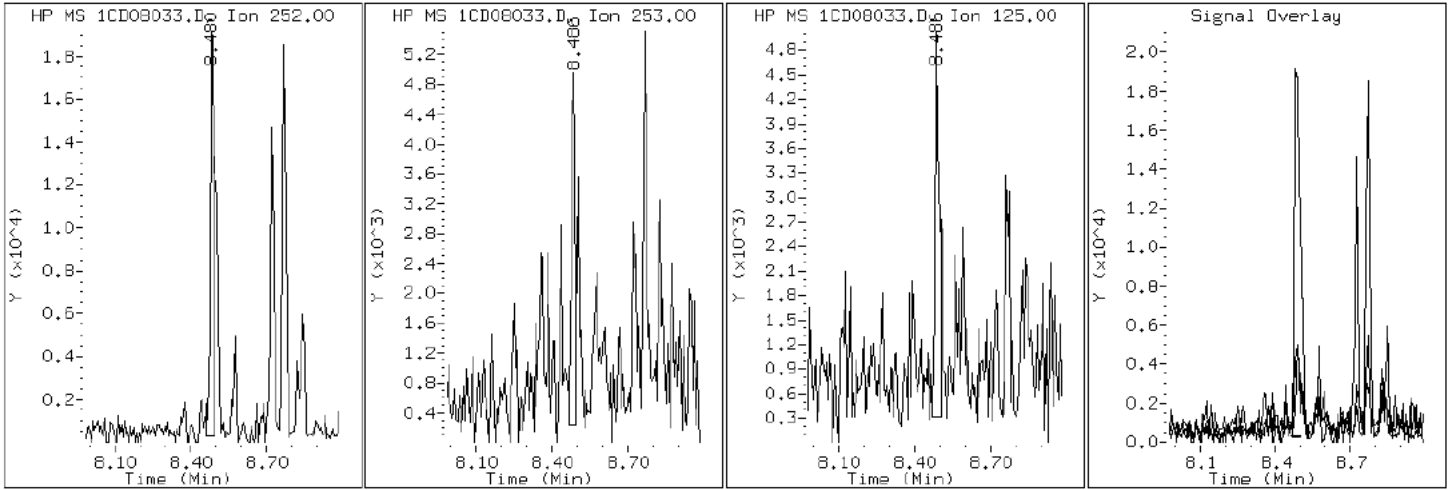
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

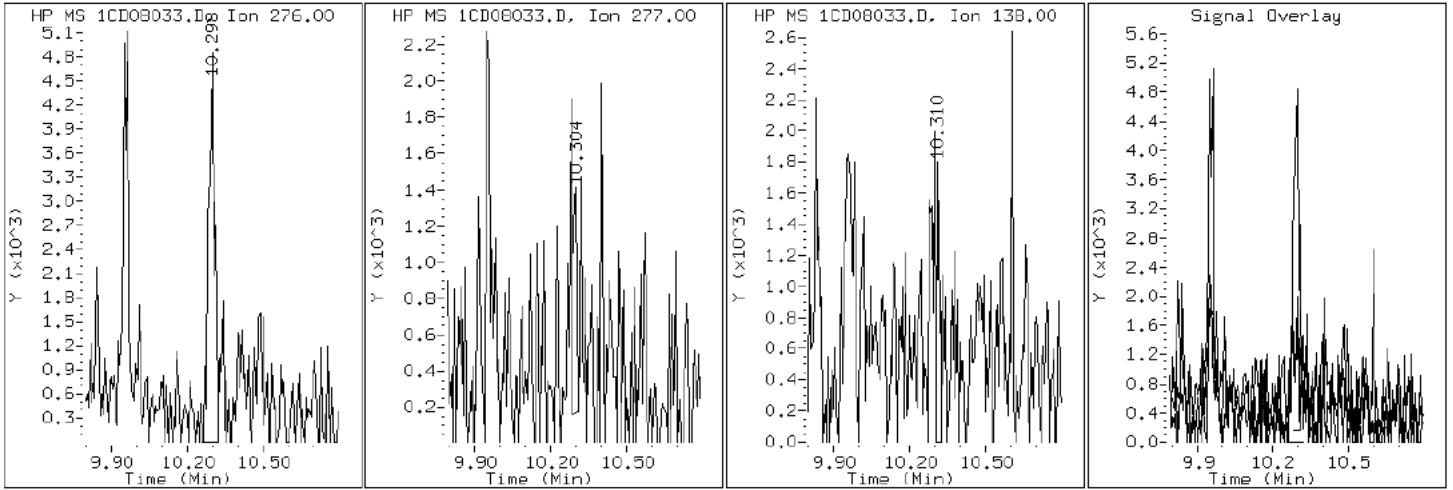
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

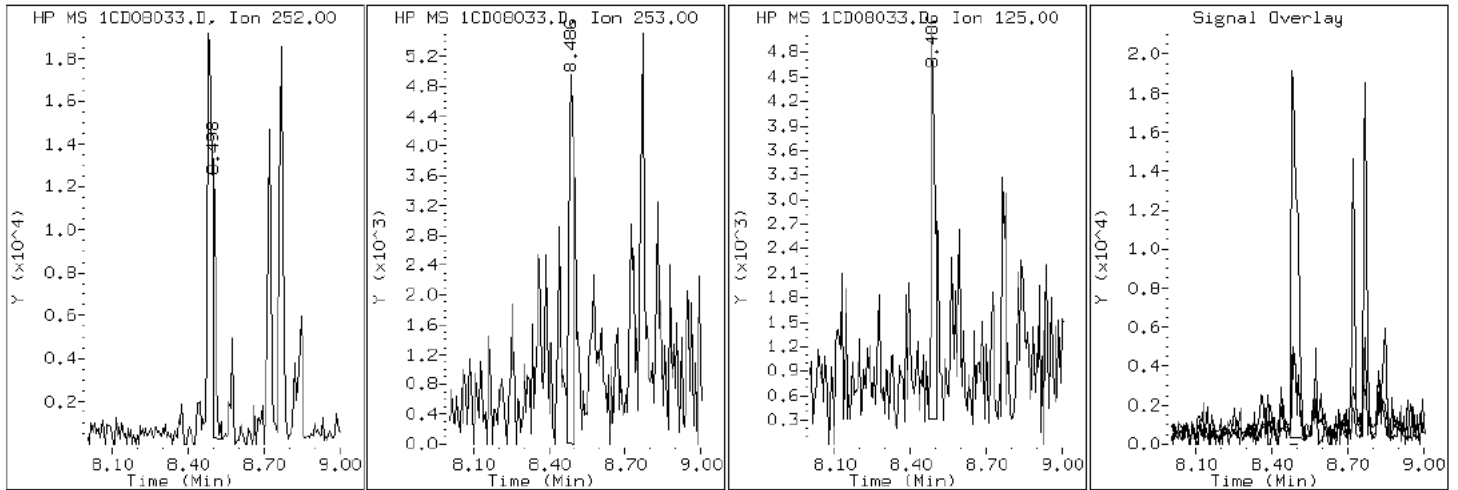
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

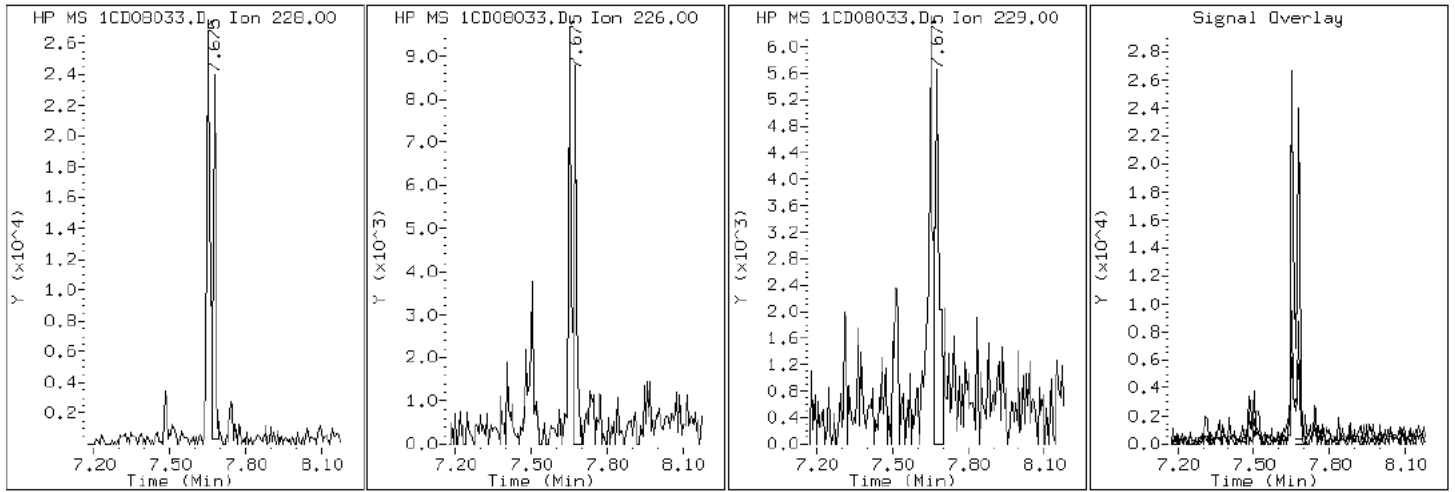
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

19 Chrysene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

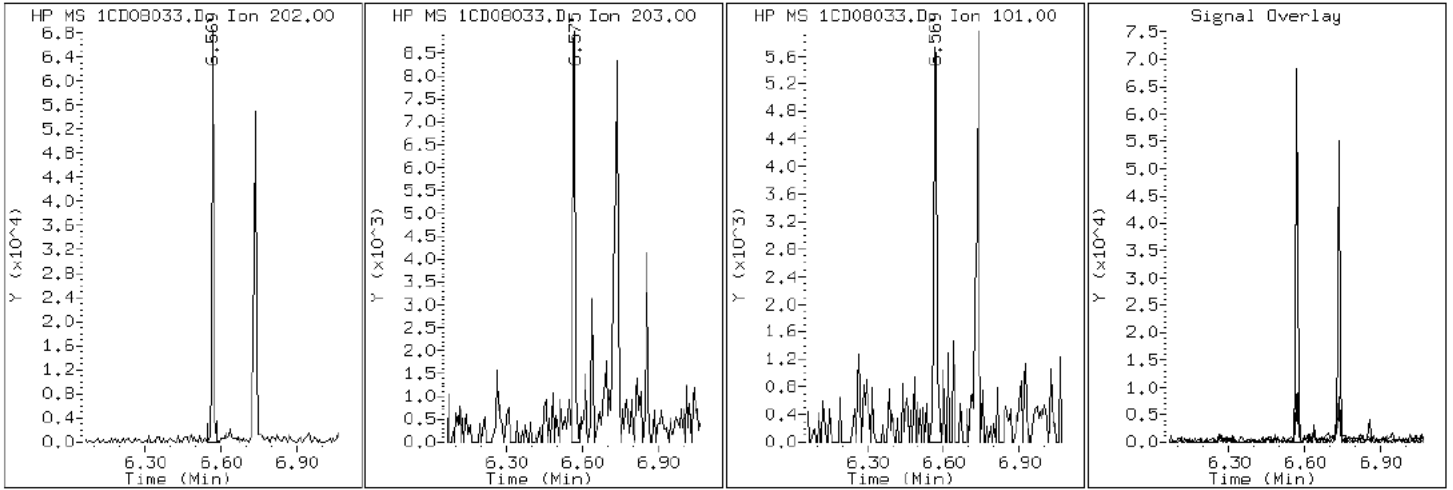
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

15 Fluoranthene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

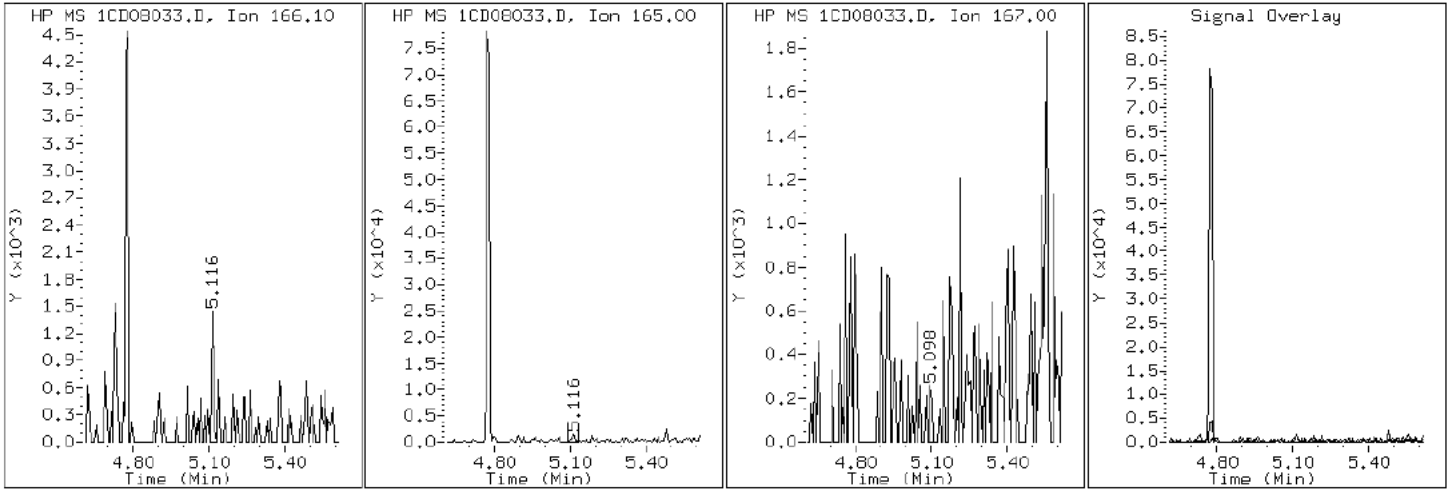
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

9 Fluorene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

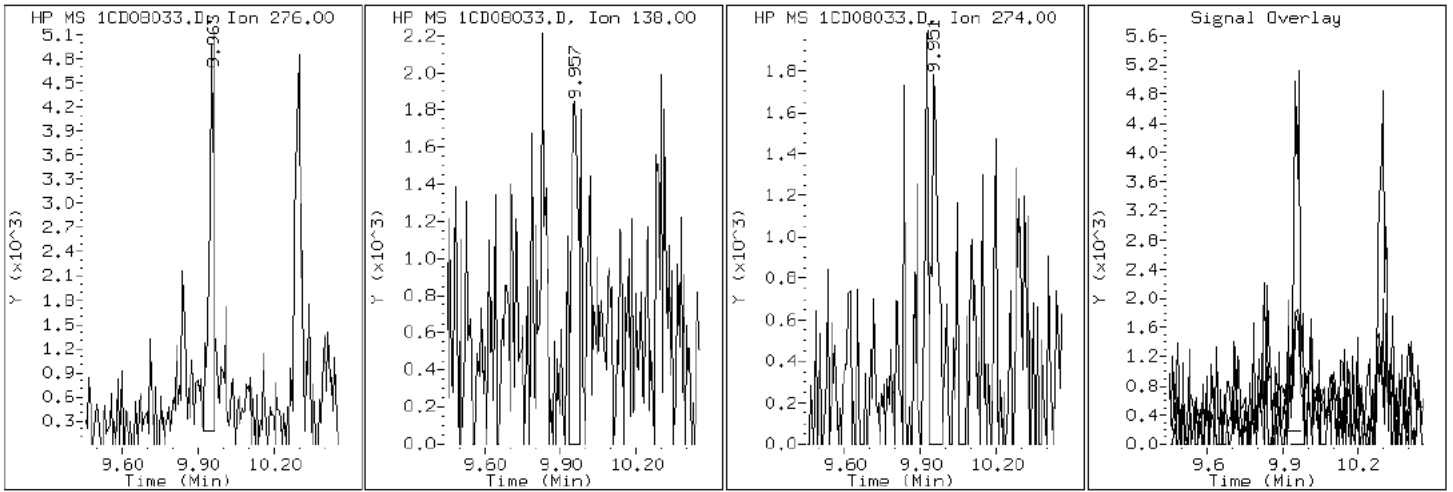
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

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



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

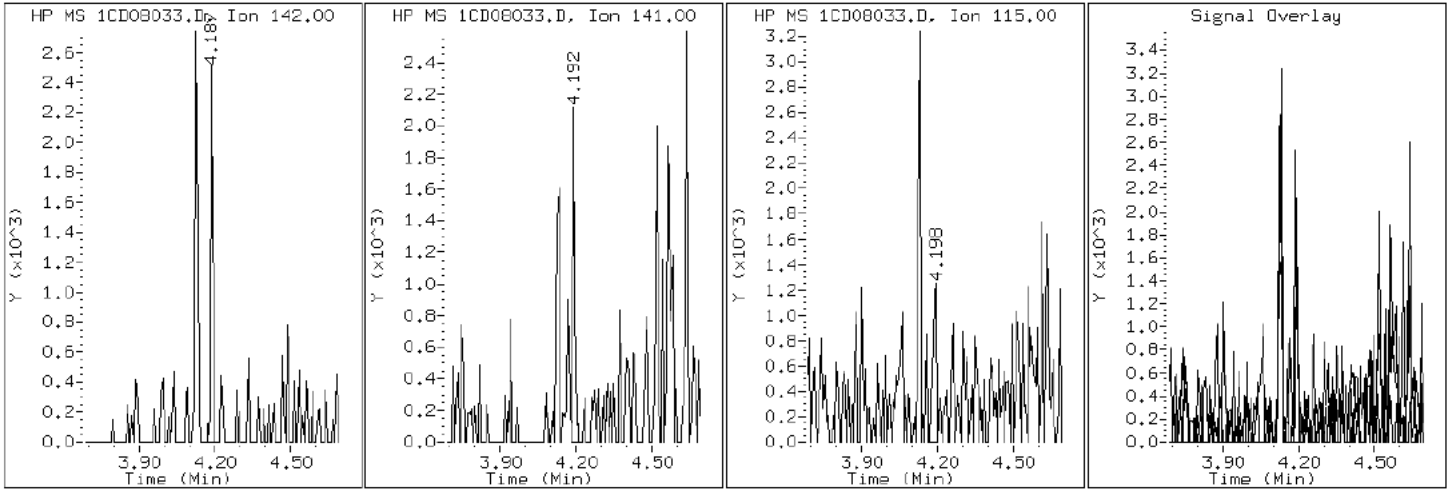
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

4 1-Methylnaphthalene





Data File: 1CD08033.D

Date: 08-APR-2013 22:18

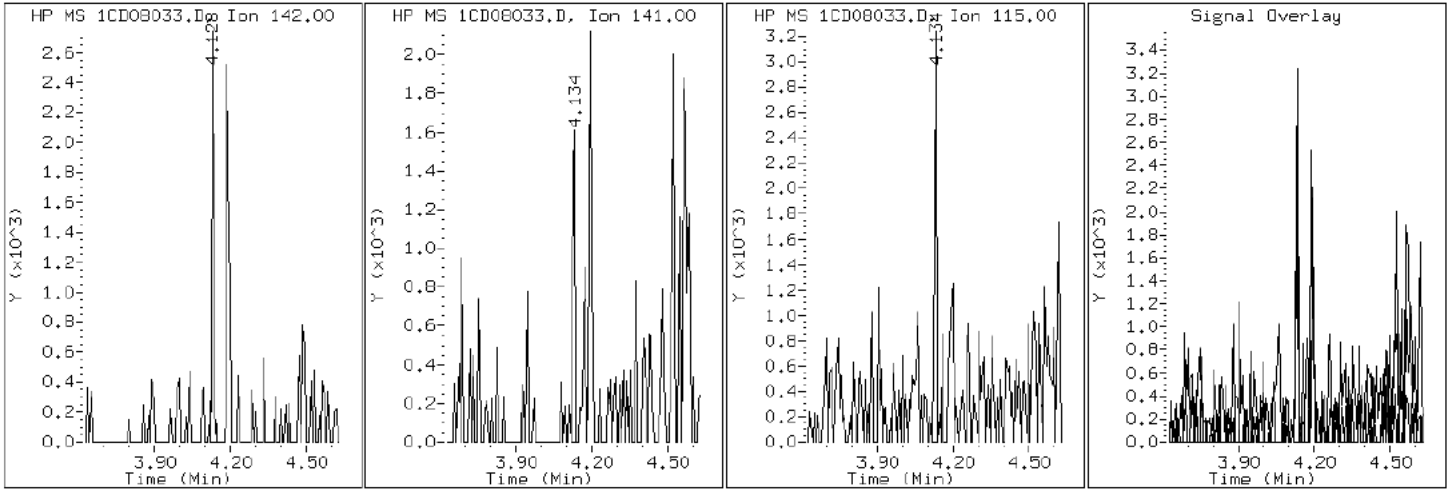
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

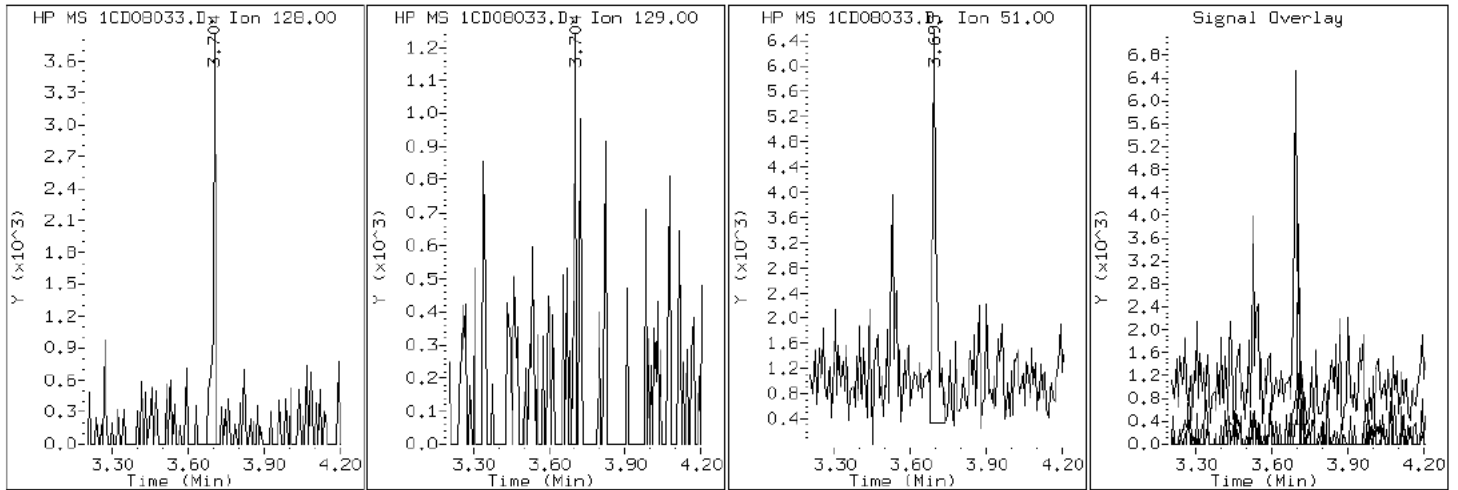
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

2 Naphthalene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

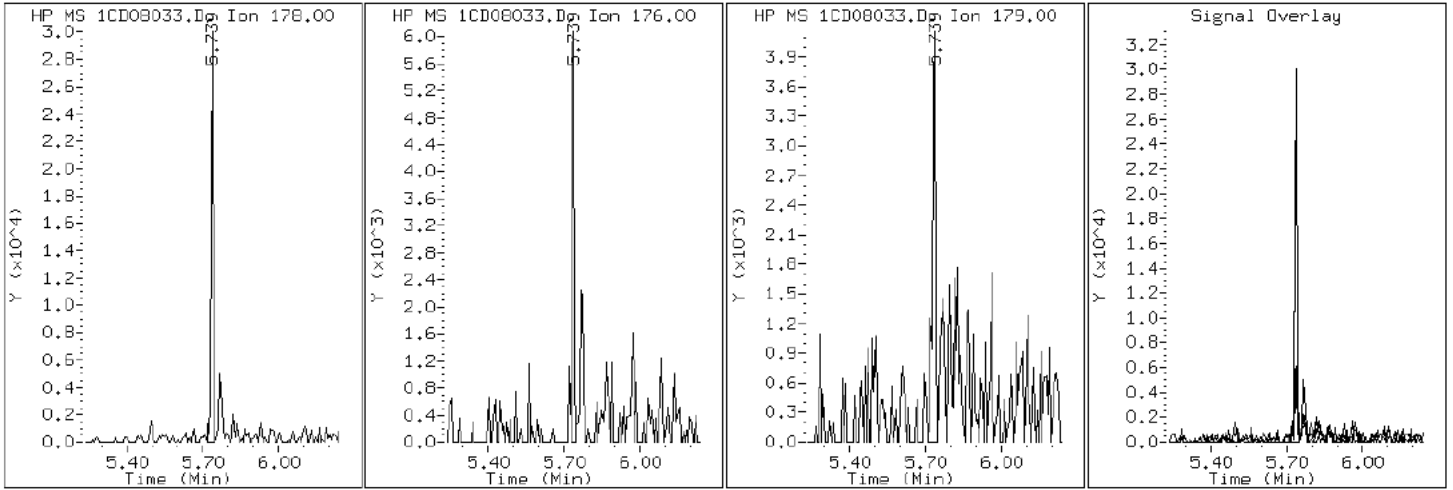
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

11 Phenanthrene



Data File: 1CD08033.D

Date: 08-APR-2013 22:18

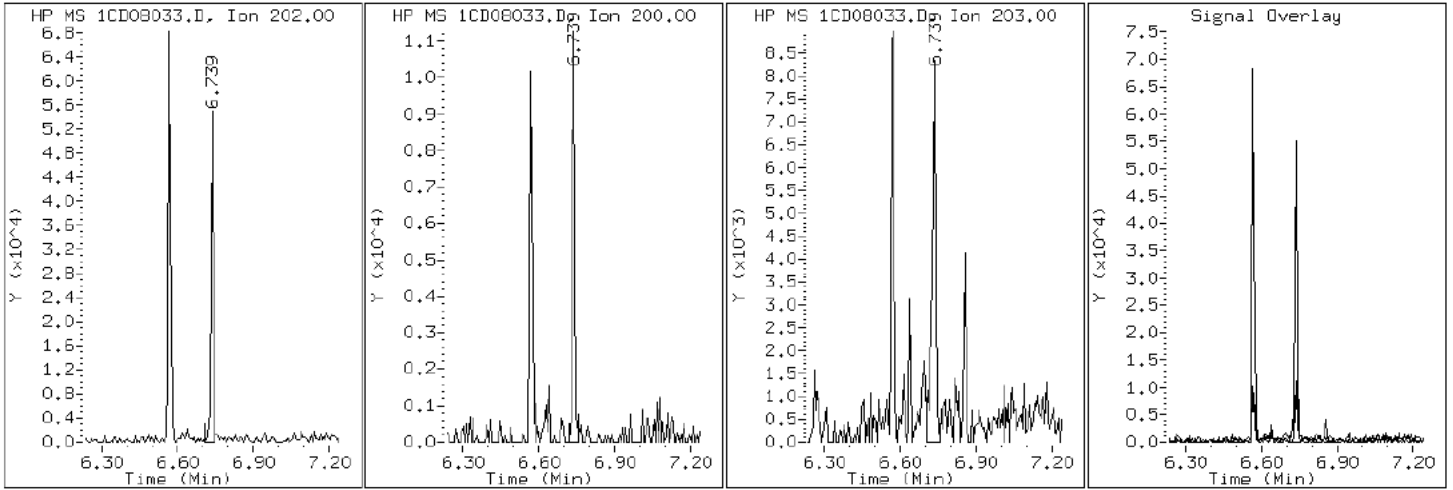
Client ID: CV0283B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-9-A

Operator: TP

16 Pyrene

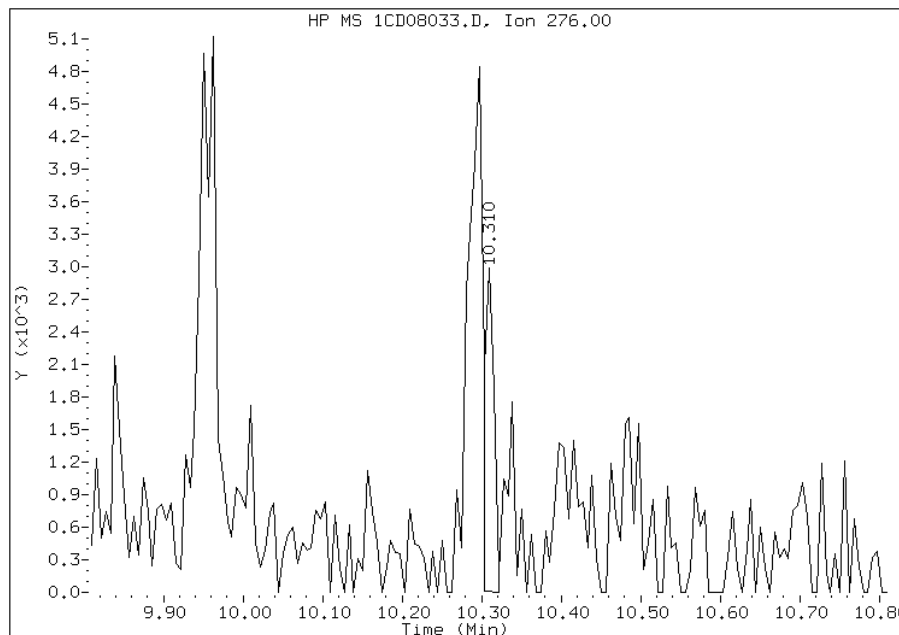


# Manual Integration Report

Data File: 1CD08033.D  
Inj. Date and Time: 08-APR-2013 22:18  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/09/2013

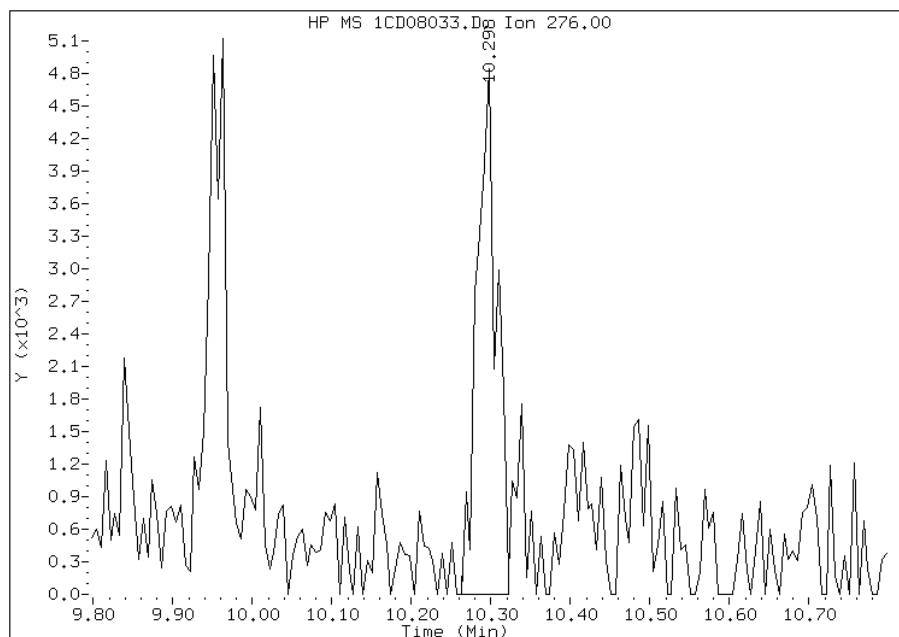
## Processing Integration Results

RT: 10.31  
Response: 2498  
Amount: 0  
Conc: 50



## Manual Integration Results

RT: 10.30  
Response: 8235  
Amount: 0  
Conc: 164



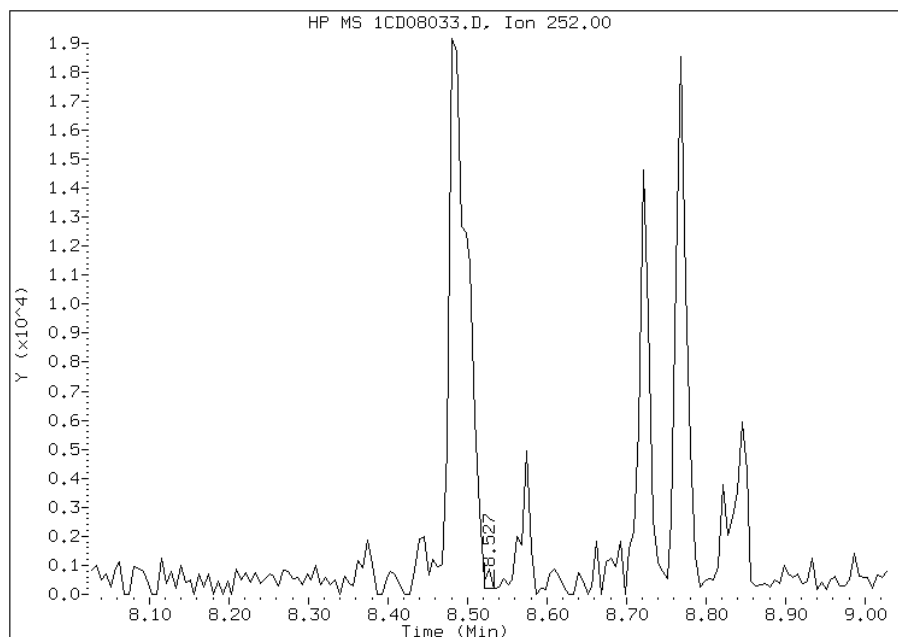
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08033.D  
Inj. Date and Time: 08-APR-2013 22:18  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

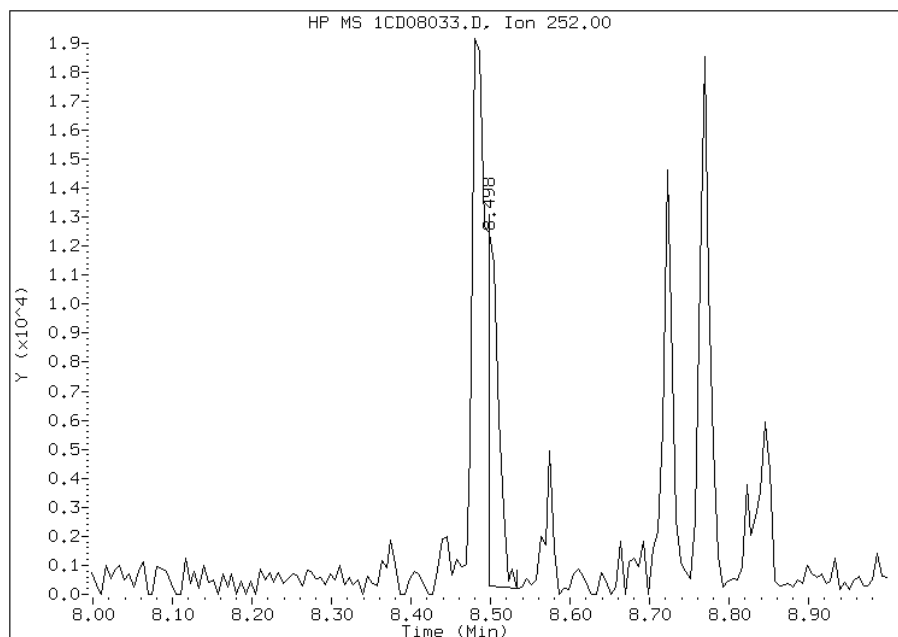
## Processing Integration Results

RT: 8.53  
Response: 319  
Amount: 0  
Conc: 6



## Manual Integration Results

RT: 8.50  
Response: 11479  
Amount: 1  
Conc: 216



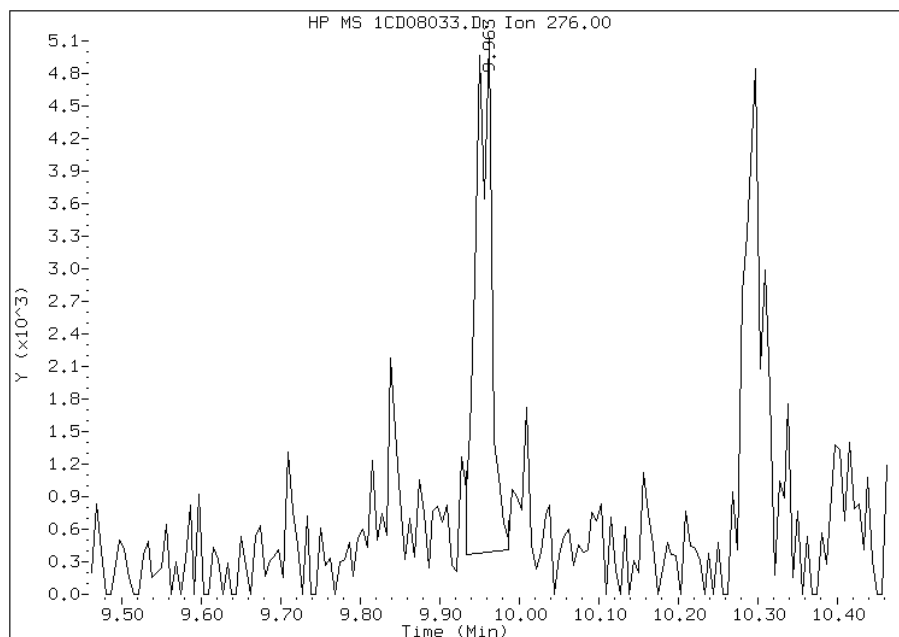
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:19  
Manual Integration Reason: Analyte Misidentified by the Data System

# Manual Integration Report

Data File: 1CD08033.D  
Inj. Date and Time: 08-APR-2013 22:18  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

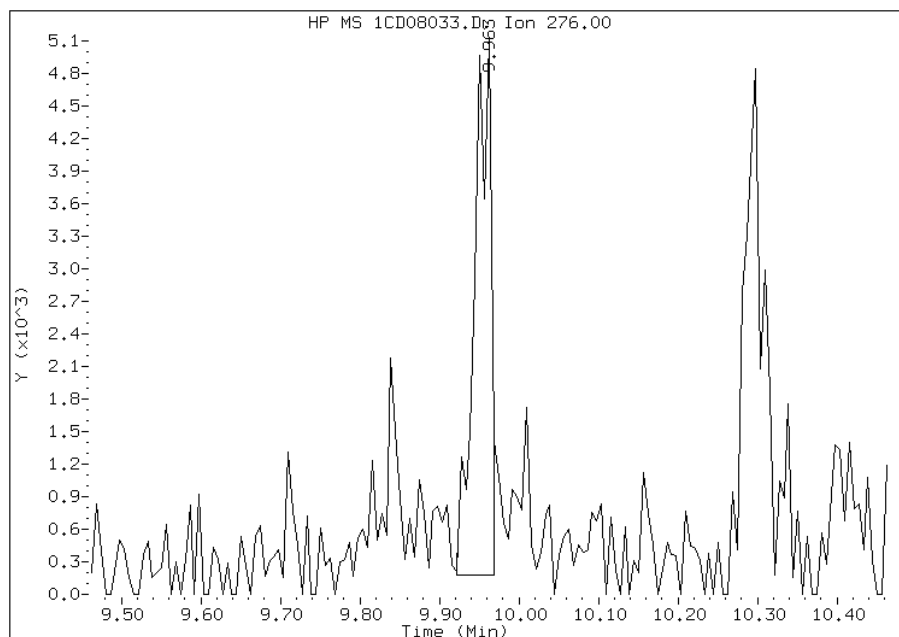
## Processing Integration Results

RT: 9.96  
Response: 6642  
Amount: 0  
Conc: 135



## Manual Integration Results

RT: 9.96  
Response: 7179  
Amount: 0  
Conc: 146



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:20  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0283B-CSD Lab Sample ID: 680-88811-10  
 Matrix: Solid Lab File ID: 1CD08034.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:37  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.03(g) Date Analyzed: 04/08/2013 22:36  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	46	J	220	27
120-12-7	Anthracene	52		46	23
56-55-3	Benzo[a]anthracene	320		43	21
50-32-8	Benzo[a]pyrene	280		56	28
205-99-2	Benzo[b]fluoranthene	340		66	33
191-24-2	Benzo[g,h,i]perylene	140		110	24
207-08-9	Benzo[k]fluoranthene	110		43	20
218-01-9	Chrysene	300		49	24
53-70-3	Dibenz(a,h)anthracene	68	J	110	22
206-44-0	Fluoranthene	380		110	22
86-73-7	Fluorene	24	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	100	J	110	39
90-12-0	1-Methylnaphthalene	120	J	220	24
91-57-6	2-Methylnaphthalene	100	J	220	39
91-20-3	Naphthalene	83	J	220	24
85-01-8	Phenanthrene	170		43	21
129-00-0	Pyrene	390		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08034.D  
 Lab Smp Id: 680-88811-A-10-A Client Smp ID: CV0283B-CSD  
 Inj Date : 08-APR-2013 22:36  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-10-A  
 Misc Info : 680-88811-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\A-BFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 34  
 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	15.030	Weight Extracted
M	26.400	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	573756	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	434073	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	799308	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	19997	2.25811	816.5239
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	794094	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	762312	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	3395	0.23038	83.3028
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	2828	0.28191	101.9373
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	3016	0.33413	120.8194
5 Acenaphthylene	152		4.692	4.686	(0.983)	2274	0.12658	45.7700
9 Fluorene	166		5.116	5.115	(1.071)	983	0.06627	23.9625(Q)
11 Phenanthrene	178		5.733	5.739	(1.002)	10943	0.47007	169.9748
12 Anthracene	178		5.768	5.768	(1.008)	3390	0.14365	51.9440
13 Carbazole	167		5.880	5.880	(1.028)	3036	0.15016	54.2983

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.568	6.568	(1.148)	26847	1.04425	377.5964
16 Pyrene	202	6.739	6.739	(0.880)	23519	1.06919	386.6146
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	17048	0.87656	316.9608
19 Chrysene	228	7.680	7.674	(1.003)	18511	0.81805	295.8032
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	20321	0.94292	340.9547(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	6392	0.30666	110.8870(QM)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	15623	0.76999	278.4238
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	5392	0.27979	101.1707(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	3368	0.18919	68.4094(M)
26 Benzo(g,h,i)perylene	276	10.292	10.297	(1.167)	7496	0.38111	137.8068

QC Flag Legend

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

Data File: 1CD08034.D

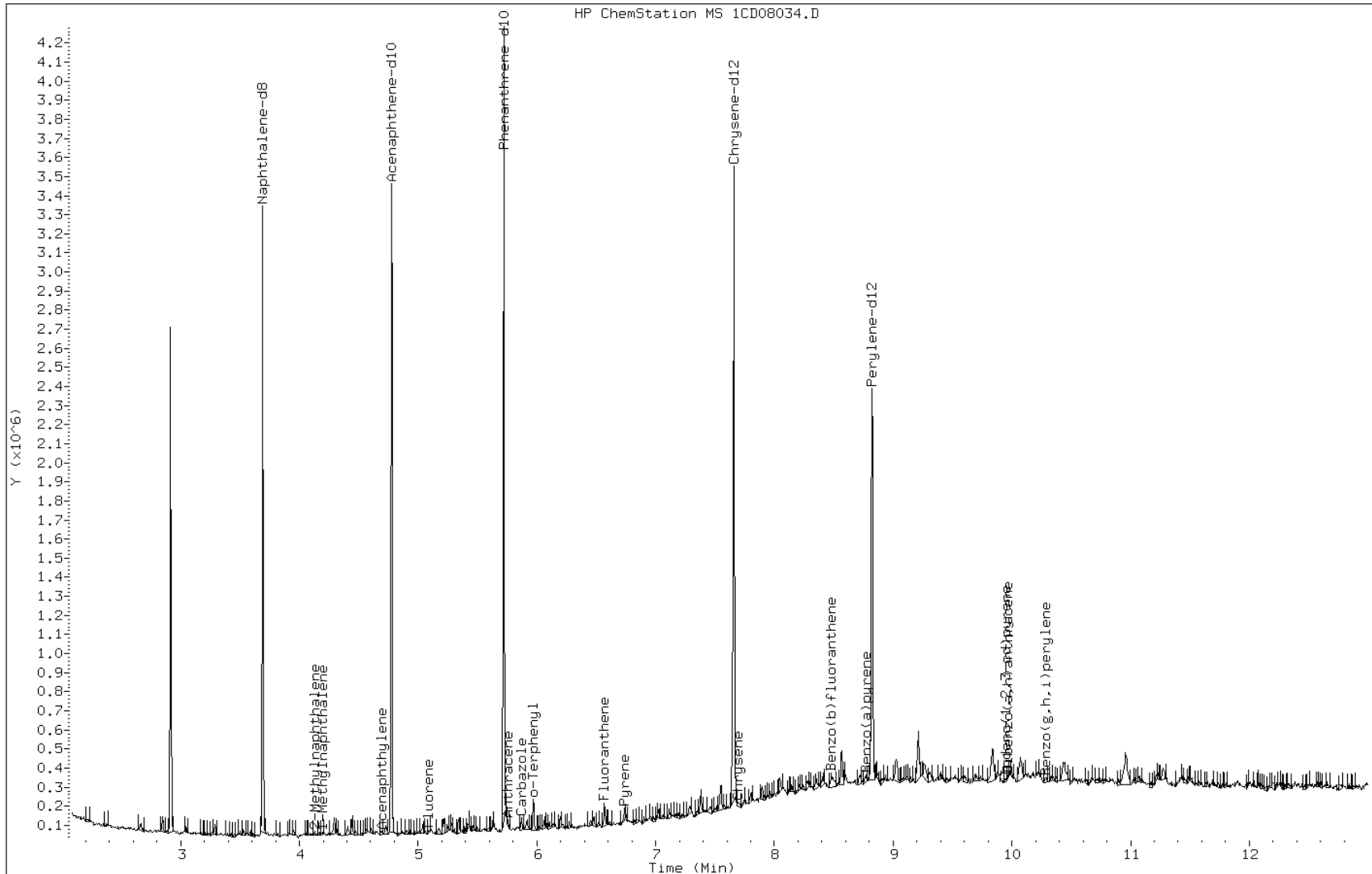
Date: 08-APR-2013 22:36

Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

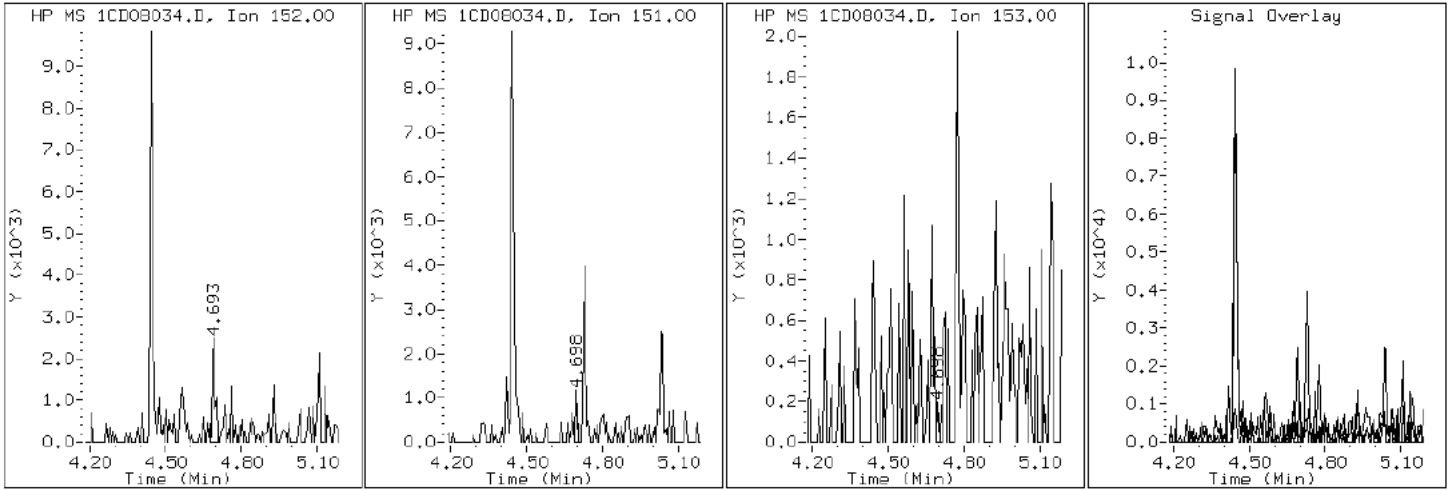
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

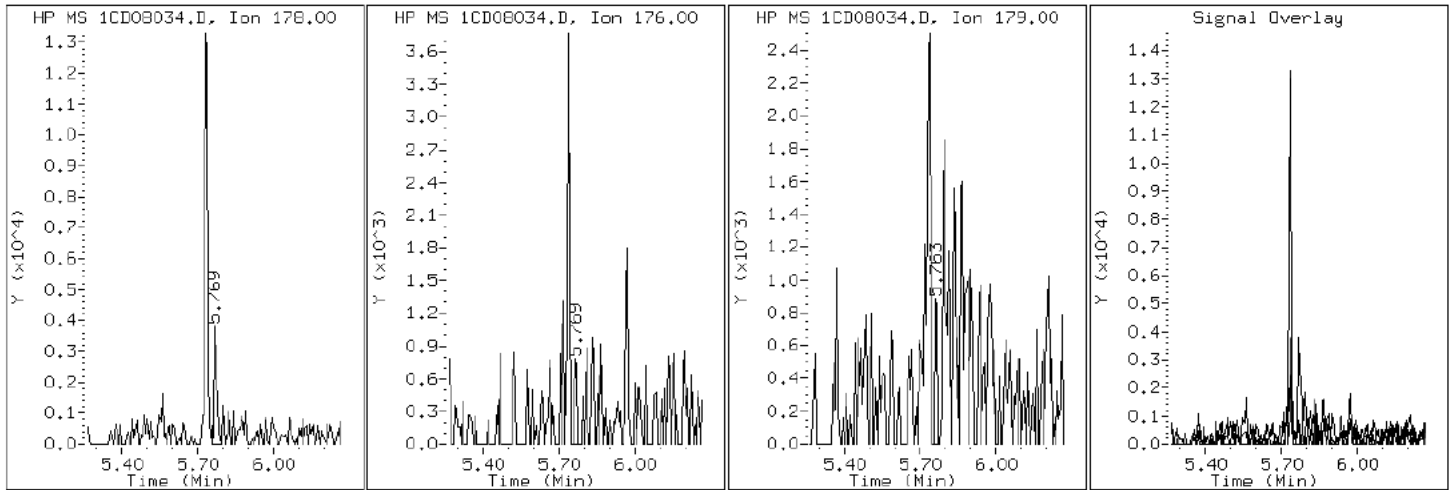
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

12 Anthracene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

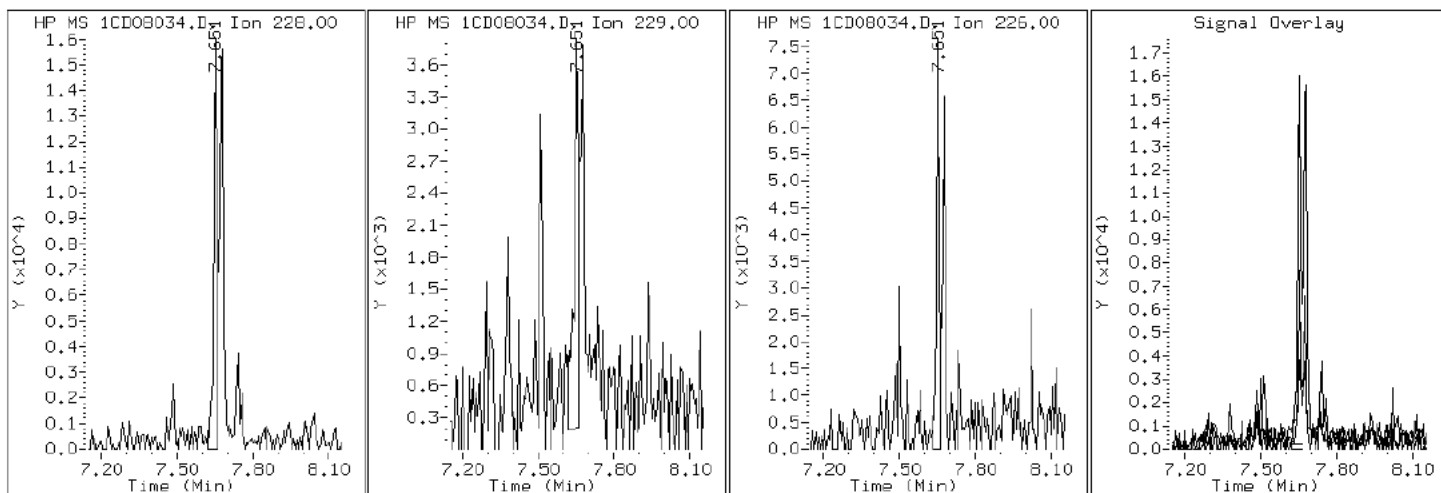
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

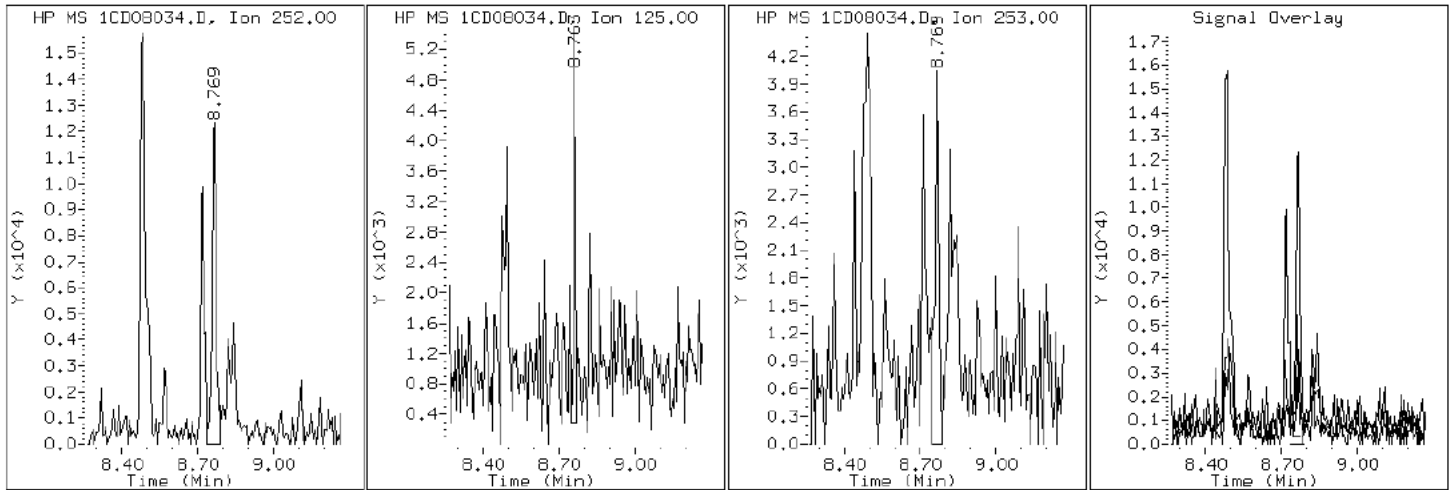
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

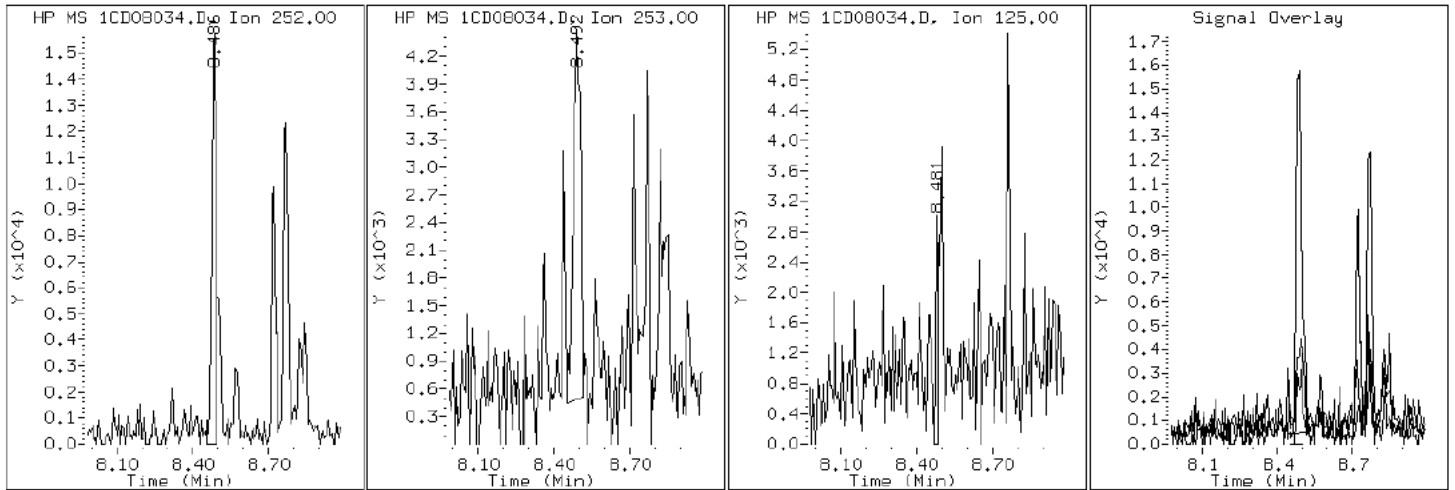
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

20 Benzo (b) fluoranthene





Data File: 1CD08034.D

Date: 08-APR-2013 22:36

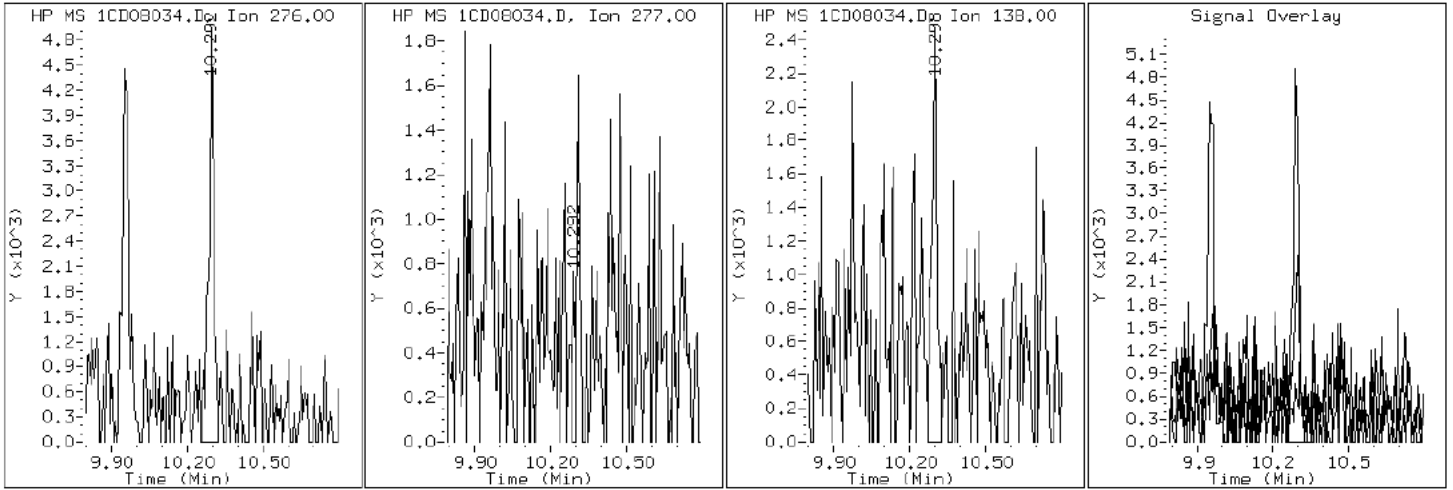
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

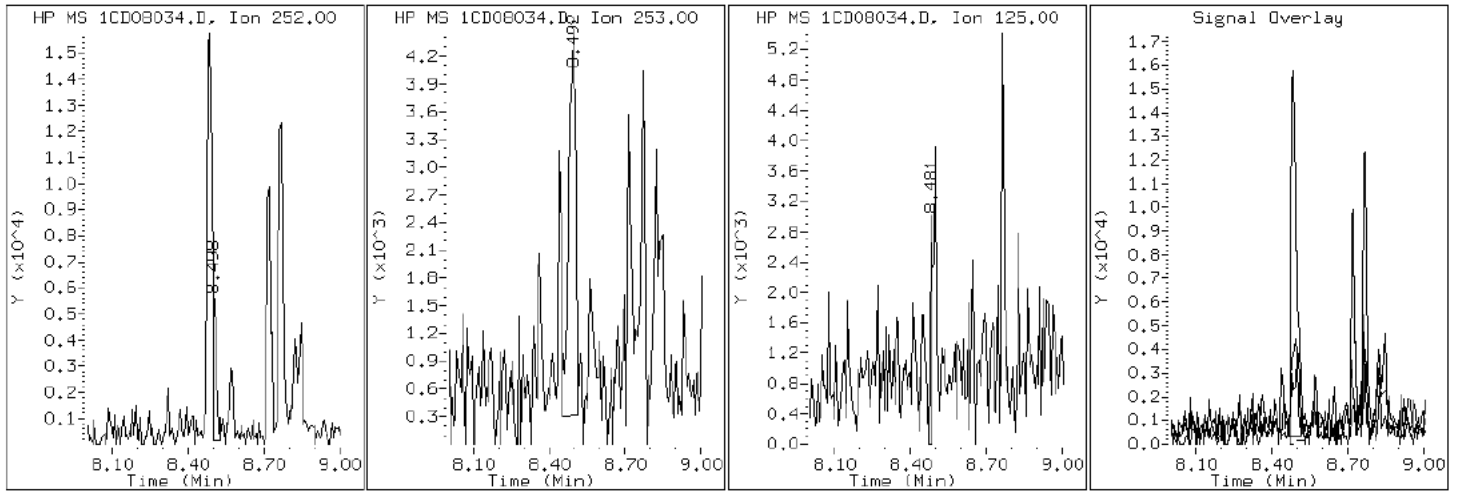
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

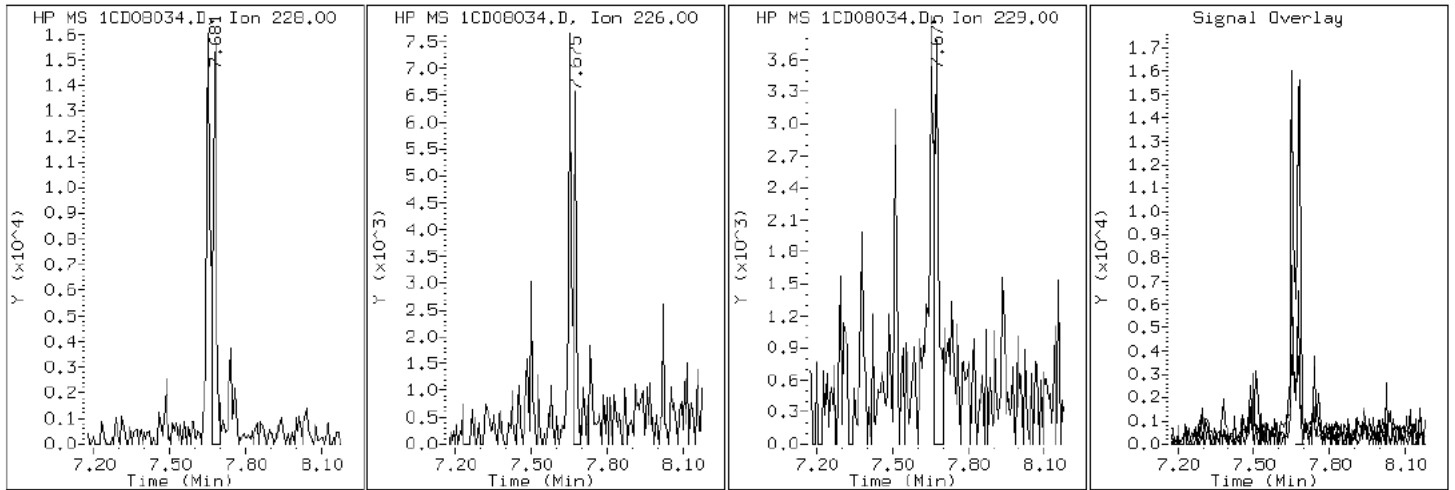
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

19 Chrysene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

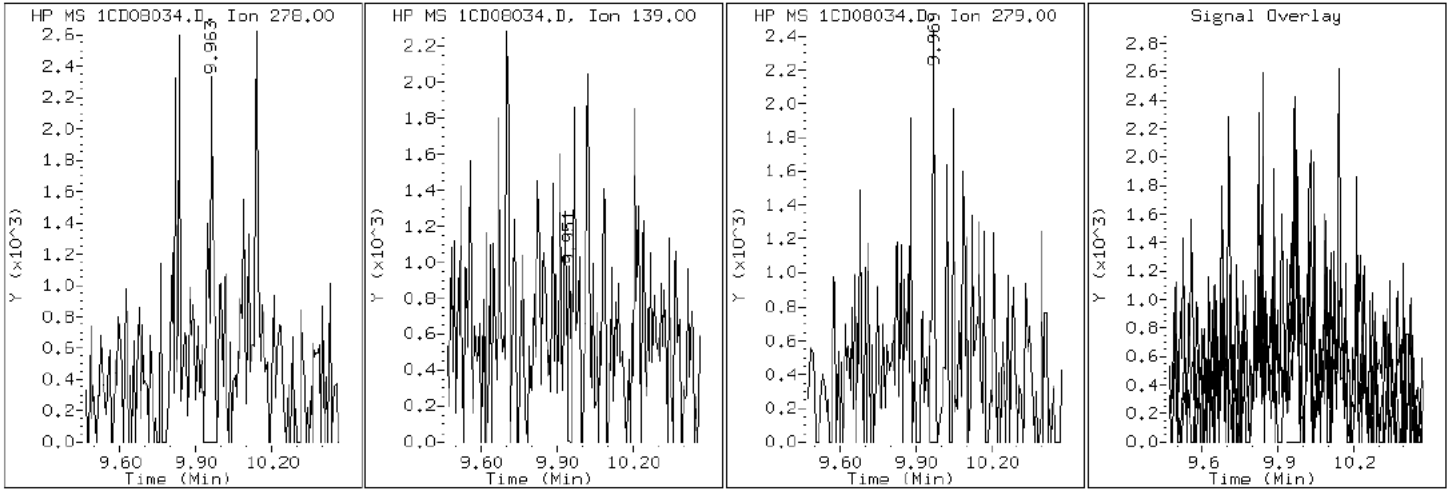
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

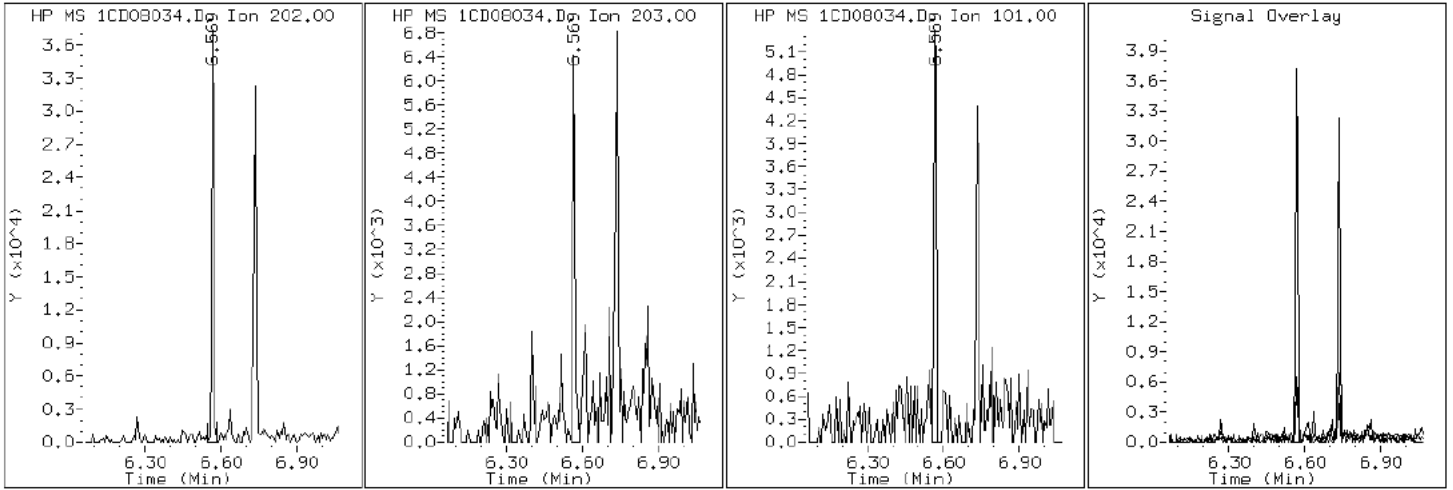
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

15 Fluoranthene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

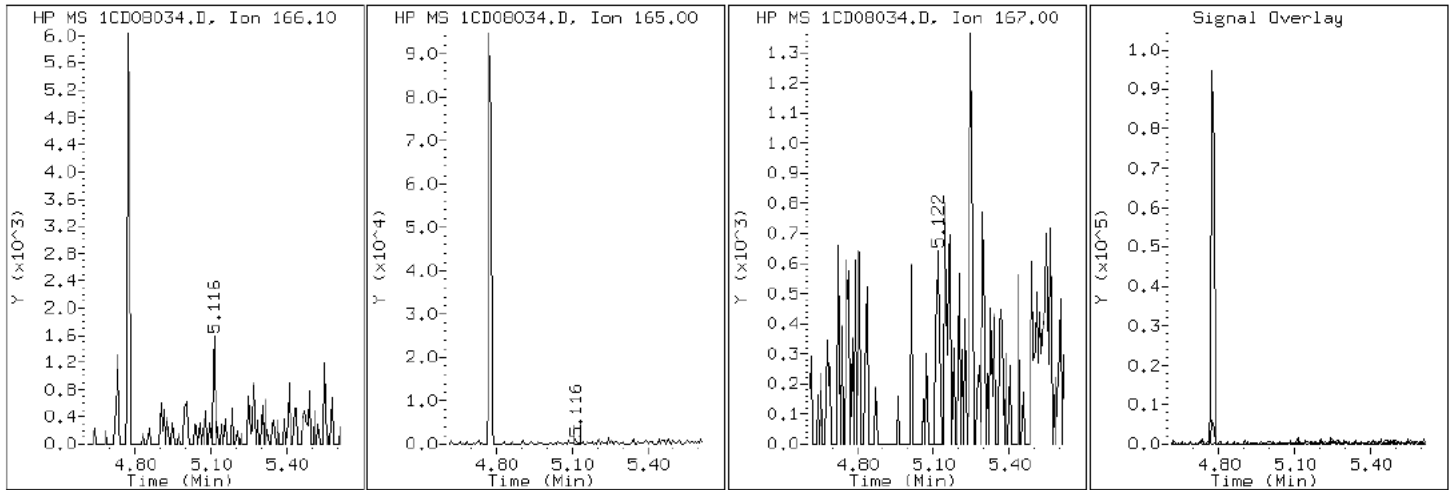
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

9 Fluorene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

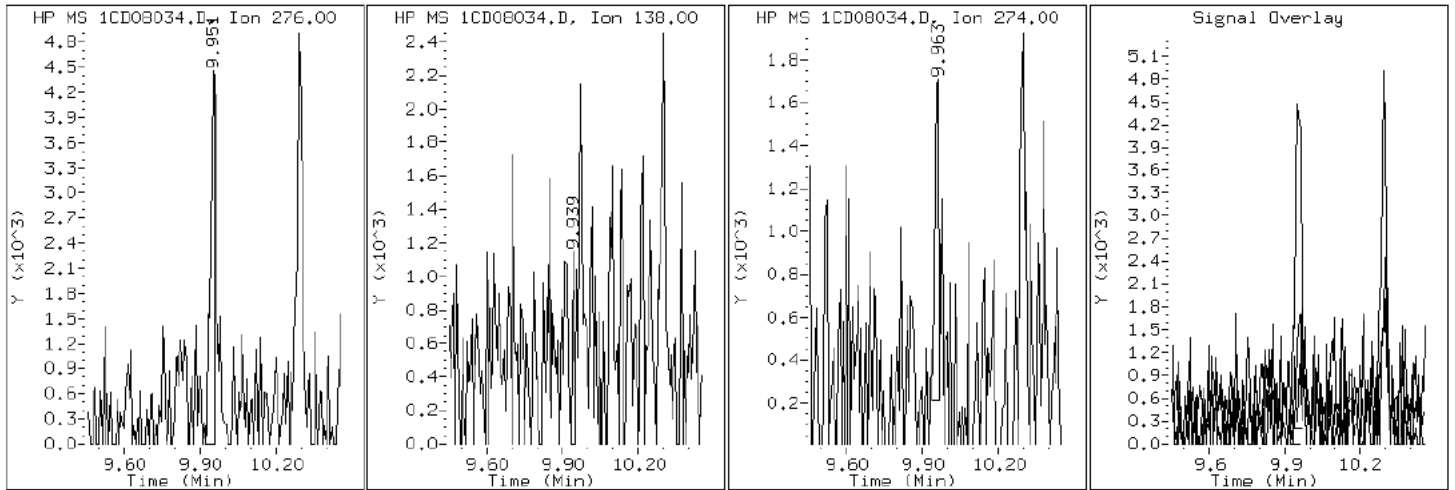
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

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



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

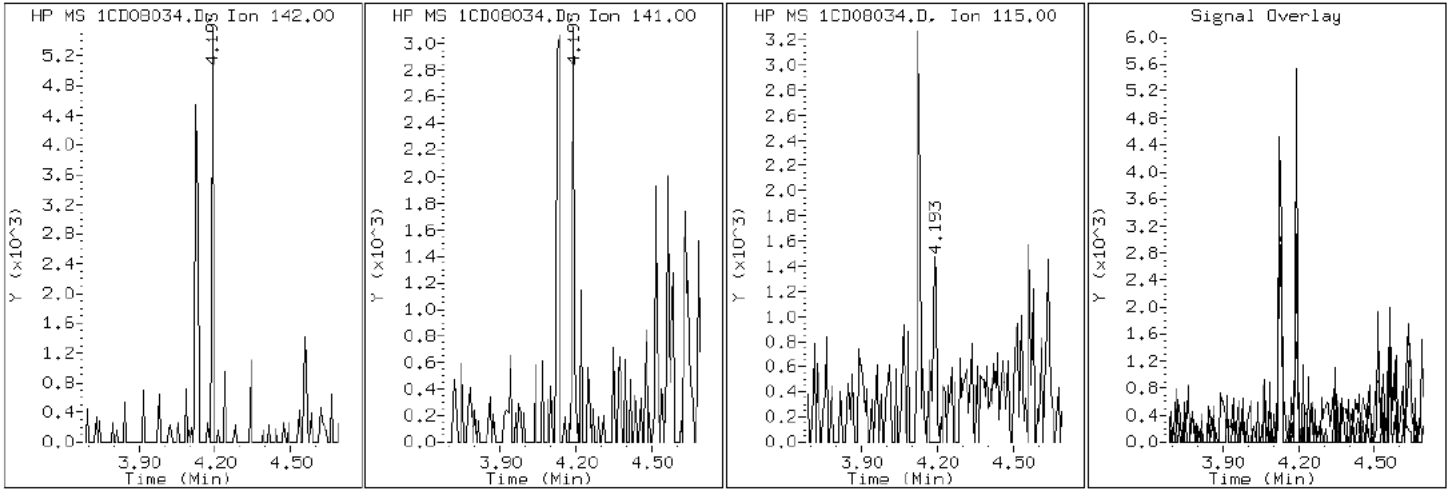
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

4 1-Methylnaphthalene





Data File: 1CD08034.D

Date: 08-APR-2013 22:36

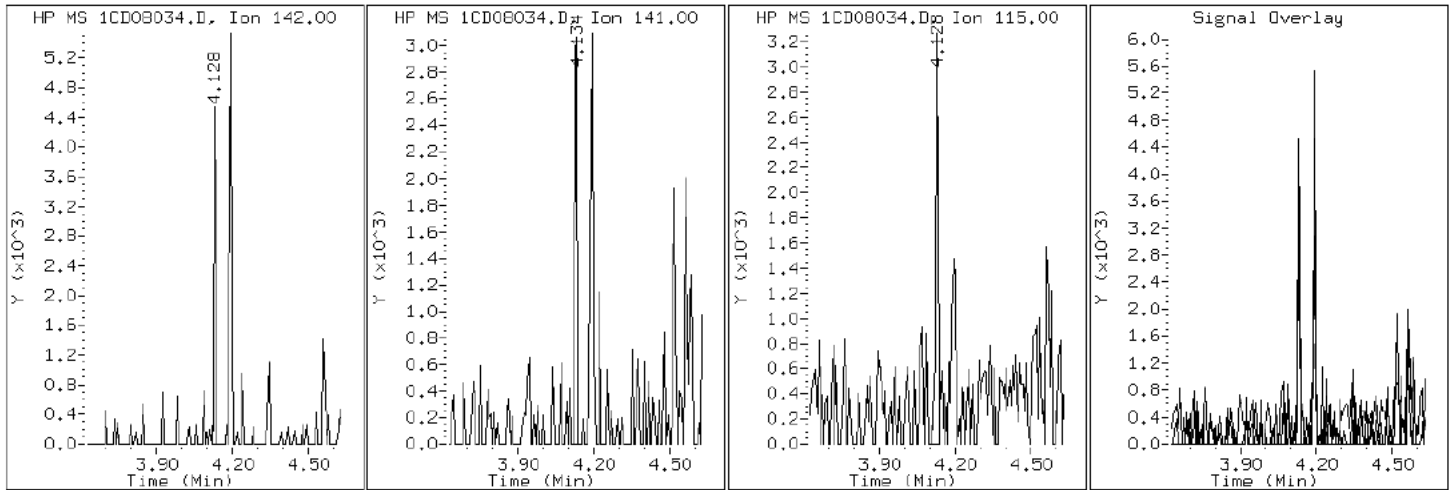
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

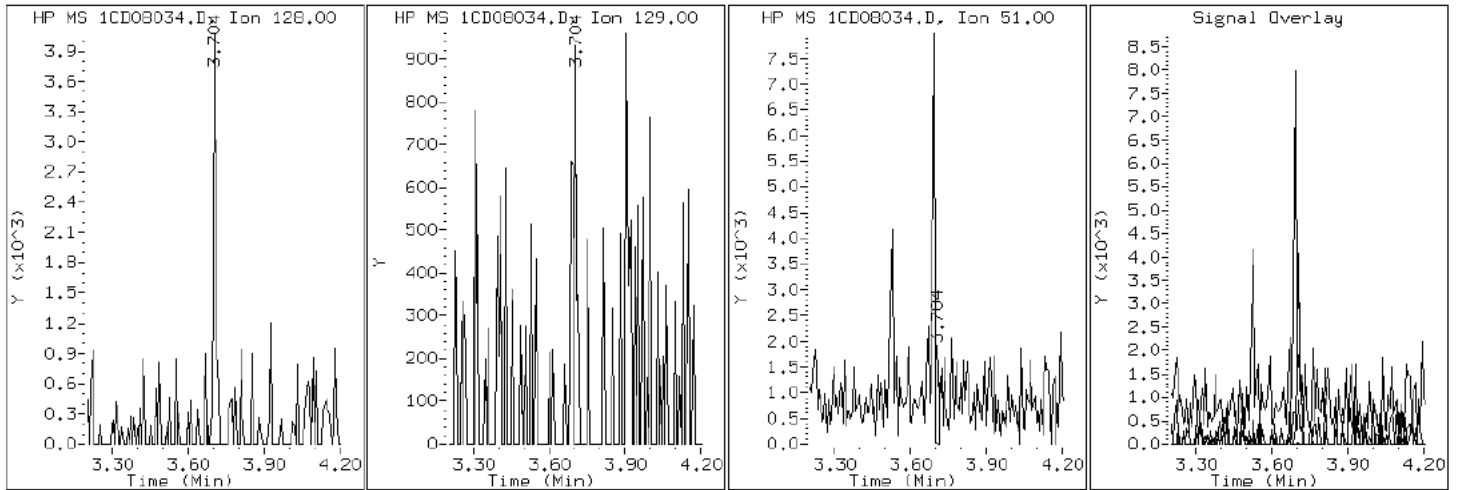
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

2 Naphthalene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

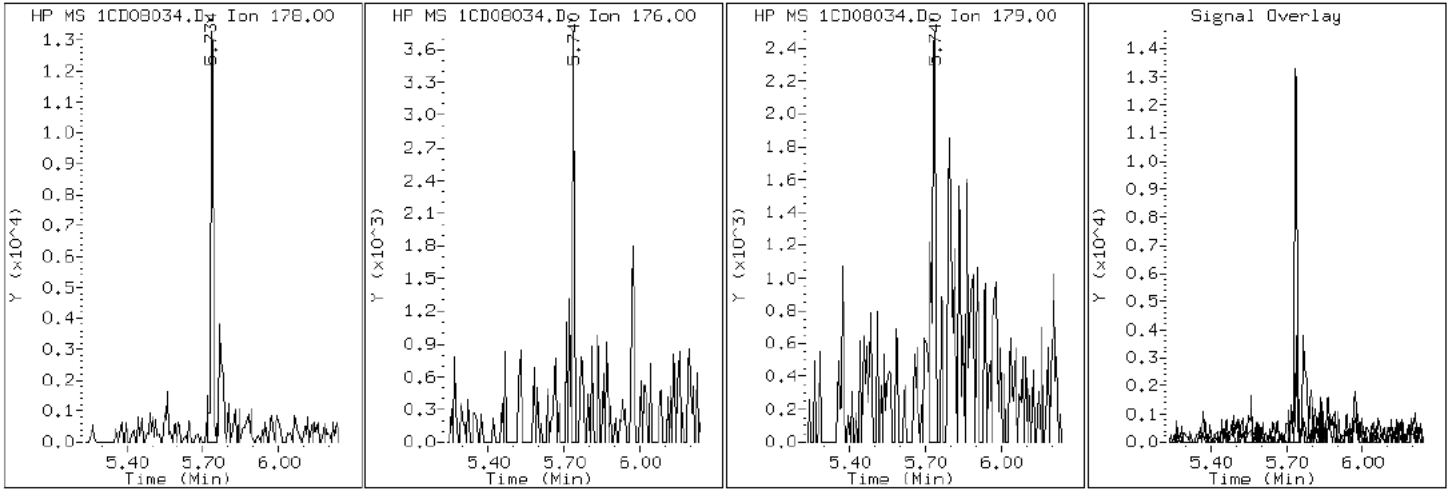
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

11 Phenanthrene



Data File: 1CD08034.D

Date: 08-APR-2013 22:36

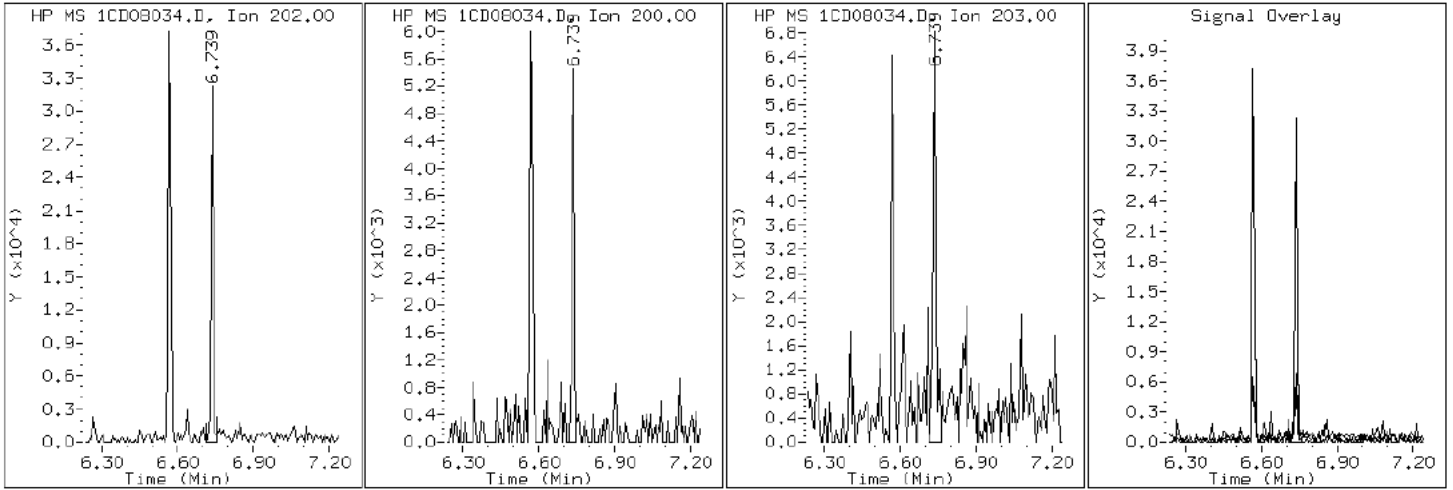
Client ID: CV0283B-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-10-A

Operator: TP

16 Pyrene

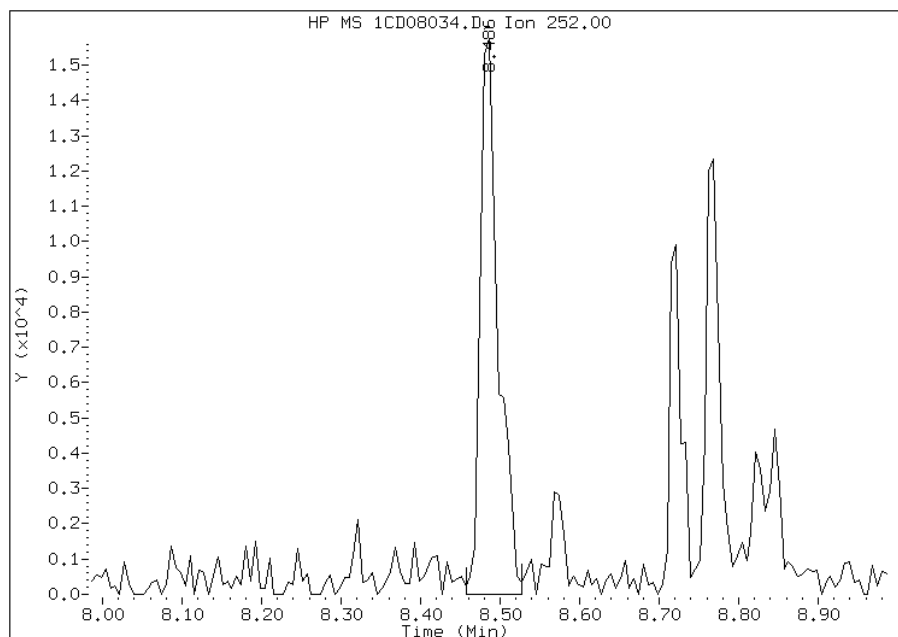


# Manual Integration Report

Data File: 1CD08034.D  
Inj. Date and Time: 08-APR-2013 22:36  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

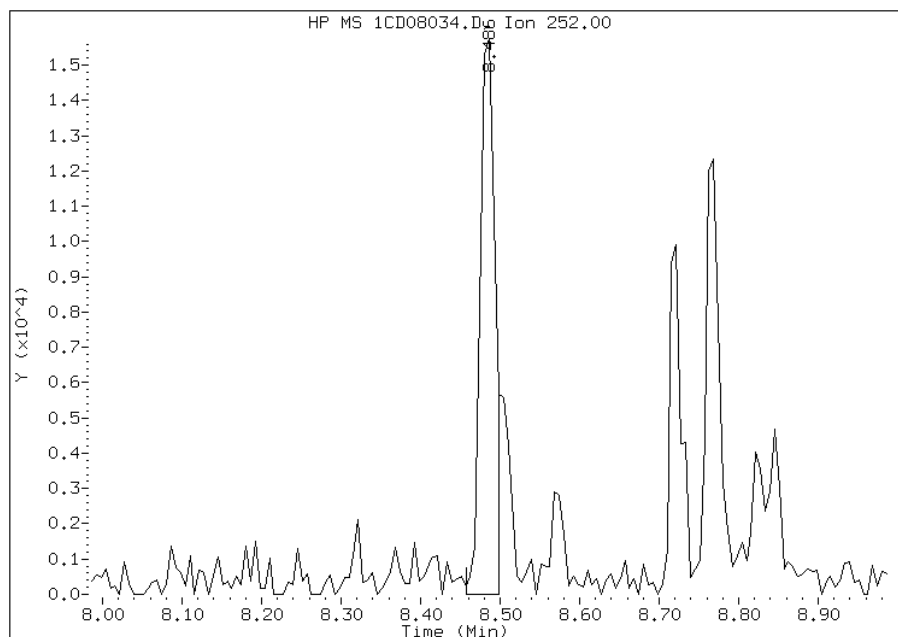
## Processing Integration Results

RT: 8.49  
Response: 24994  
Amount: 1  
Conc: 419



## Manual Integration Results

RT: 8.49  
Response: 20321  
Amount: 1  
Conc: 341



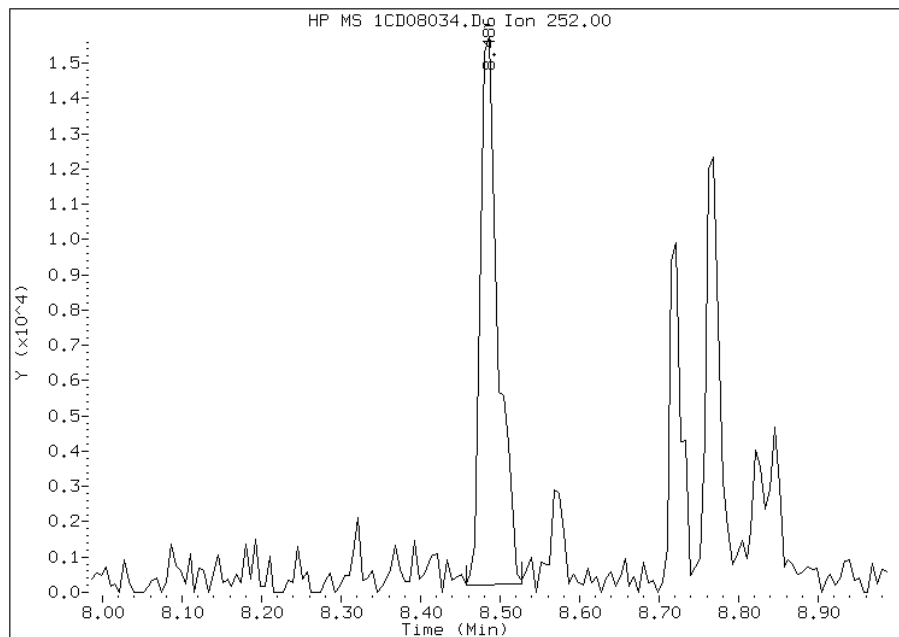
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:20  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08034.D  
Inj. Date and Time: 08-APR-2013 22:36  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

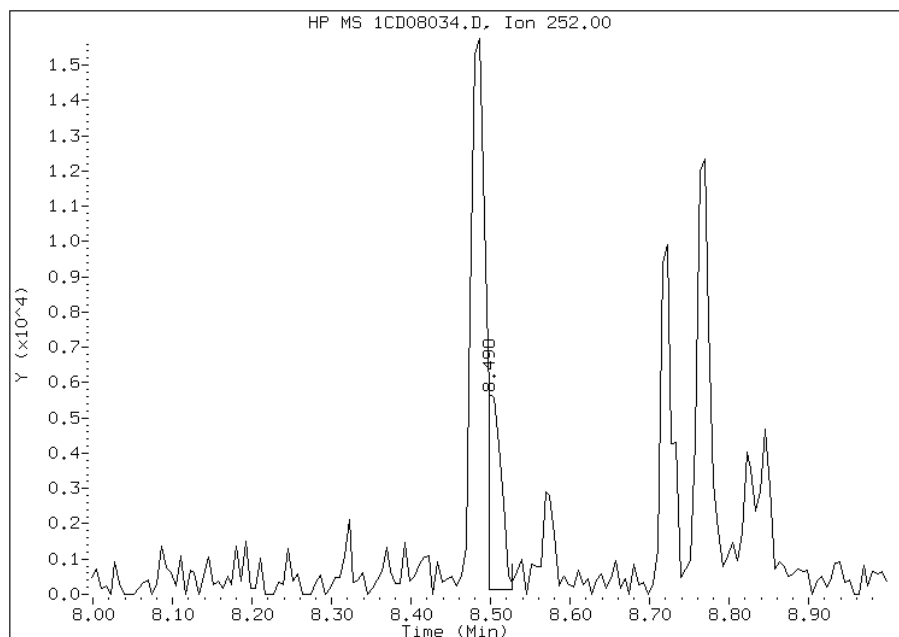
## Processing Integration Results

RT: 8.49  
Response: 24035  
Amount: 1  
Conc: 417



## Manual Integration Results

RT: 8.50  
Response: 6392  
Amount: 0  
Conc: 111



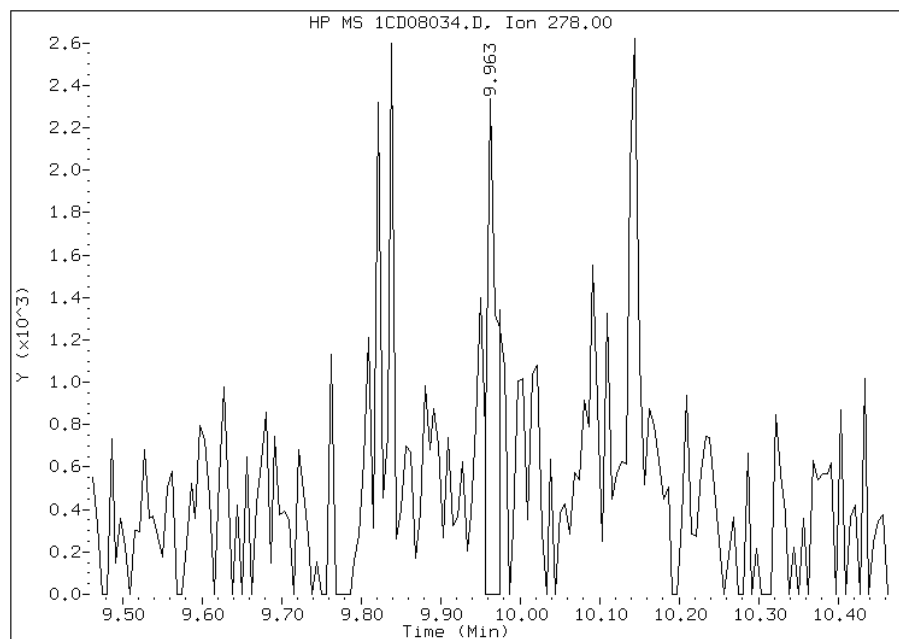
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:21  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08034.D  
Inj. Date and Time: 08-APR-2013 22:36  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CSD  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

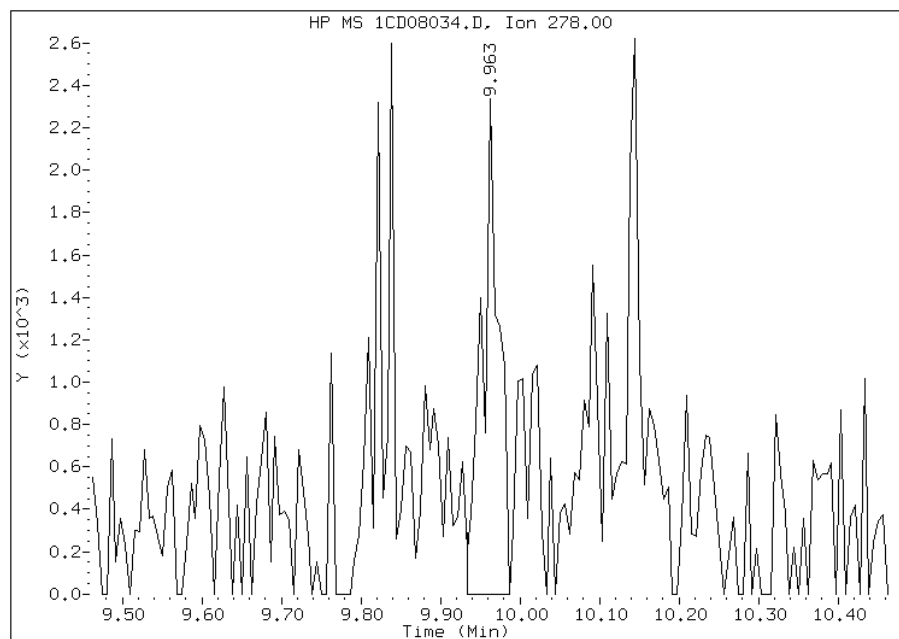
## Processing Integration Results

RT: 9.96  
Response: 2002  
Amount: 0  
Conc: 41



## Manual Integration Results

RT: 9.96  
Response: 3368  
Amount: 0  
Conc: 68



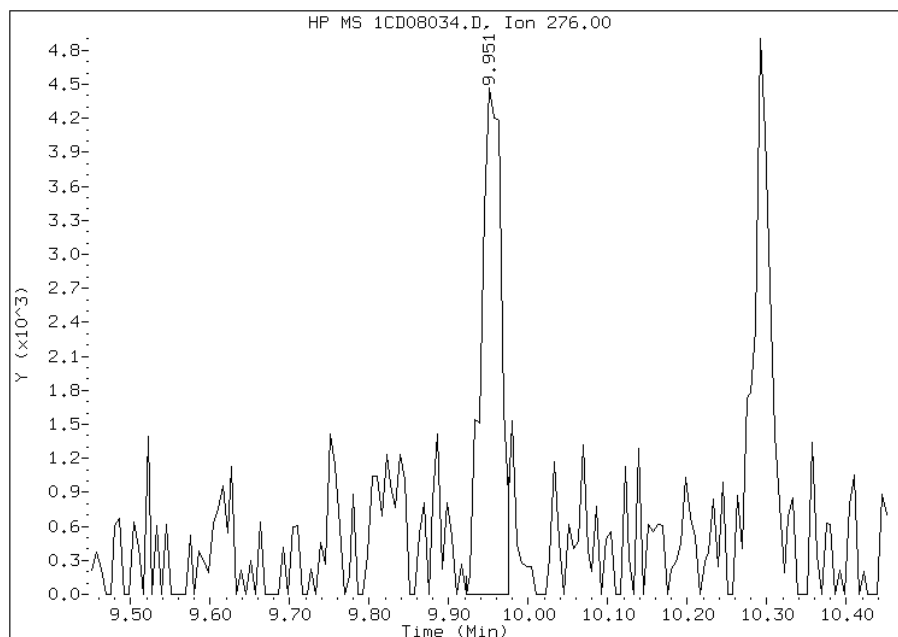
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:21  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08034.D  
Inj. Date and Time: 08-APR-2013 22:36  
Instrument ID: BSMC5973.i  
Client ID: CV0283B-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

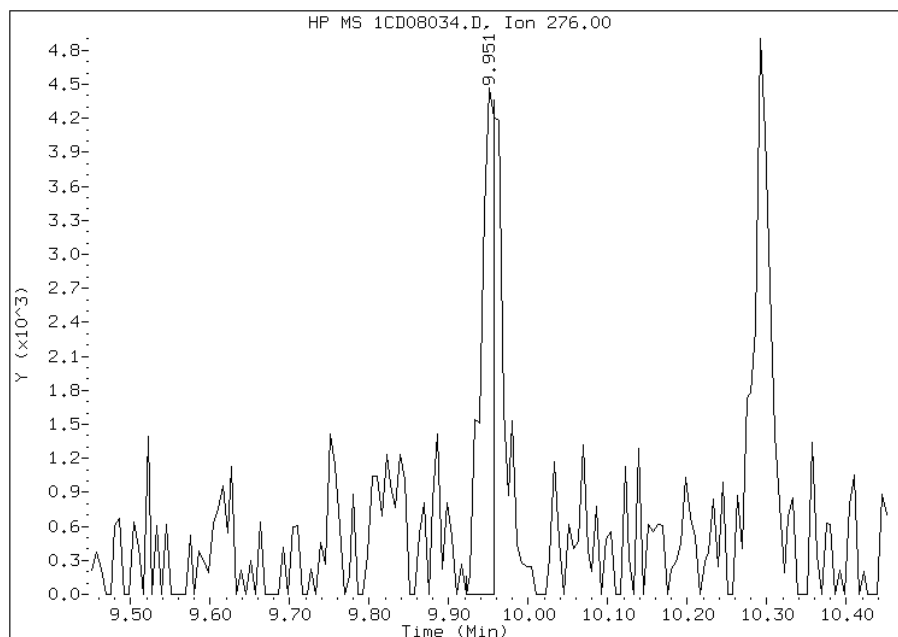
## Processing Integration Results

RT: 9.95  
Response: 7750  
Amount: 0  
Conc: 145



## Manual Integration Results

RT: 9.95  
Response: 5392  
Amount: 0  
Conc: 101



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:21  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0283C-CS Lab Sample ID: 680-88811-11  
 Matrix: Solid Lab File ID: 1CD08035.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:38  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.15(g) Date Analyzed: 04/08/2013 22:55  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 25.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	38	J	210	27
120-12-7	Anthracene	63		45	22
56-55-3	Benzo[a]anthracene	390		42	21
50-32-8	Benzo[a]pyrene	330		55	28
205-99-2	Benzo[b]fluoranthene	530		65	32
191-24-2	Benzo[g,h,i]perylene	260		110	23
207-08-9	Benzo[k]fluoranthene	220		42	19
218-01-9	Chrysene	460		48	24
53-70-3	Dibenz(a,h)anthracene	85	J	110	22
206-44-0	Fluoranthene	500		110	21
86-73-7	Fluorene	30	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	190		110	38
90-12-0	1-Methylnaphthalene	190	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	38
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	350		42	21
129-00-0	Pyrene	530		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08035.D  
 Lab Smp Id: 680-88811-A-11-A Client Smp ID: CV0283C-CS  
 Inj Date : 08-APR-2013 22:55  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-11-A  
 Misc Info : 680-88811-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\A-BFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 35  
 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	15.150	Weight Extracted
M	25.367	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	566622	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	413096	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	768724	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	15488	1.95974	693.2877
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	799043	40.0000	
* 23 Perylene-d12	264		8.827	8.821	(1.000)	730596	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	5497	0.37771	133.6201(Q)
3 2-Methylnaphthalene	142		4.133	4.127	(1.119)	4448	0.44898	158.8346
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	4677	0.52467	185.6091
5 Acenaphthylene	152		4.686	4.686	(0.982)	1823	0.10663	37.7208
9 Fluorene	166		5.115	5.115	(1.071)	1183	0.08380	29.6461(Q)
11 Phenanthrene	178		5.739	5.739	(1.003)	22263	0.99438	351.7777
12 Anthracene	178		5.774	5.768	(1.009)	4021	0.17717	62.6767
13 Carbazole	167		5.880	5.880	(1.028)	2356	0.12117	42.8643(Q)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.148)	34912	1.41198	499.5087
16 Pyrene	202	6.739	6.739	(0.880)	32994	1.49064	527.3376
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	22087	1.08962	385.4699
19 Chrysene	228	7.680	7.674	(1.003)	29910	1.31361	464.7118
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	30907	1.49638	529.3665(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	12670	0.63424	224.3721(QM)
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	17913	0.92118	325.8804
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.956	(1.129)	9708	0.52561	185.9443(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.129)	4082	0.23925	84.6379
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	13614	0.72220	255.4906

QC Flag Legend

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

Data File: 1CD08035.D

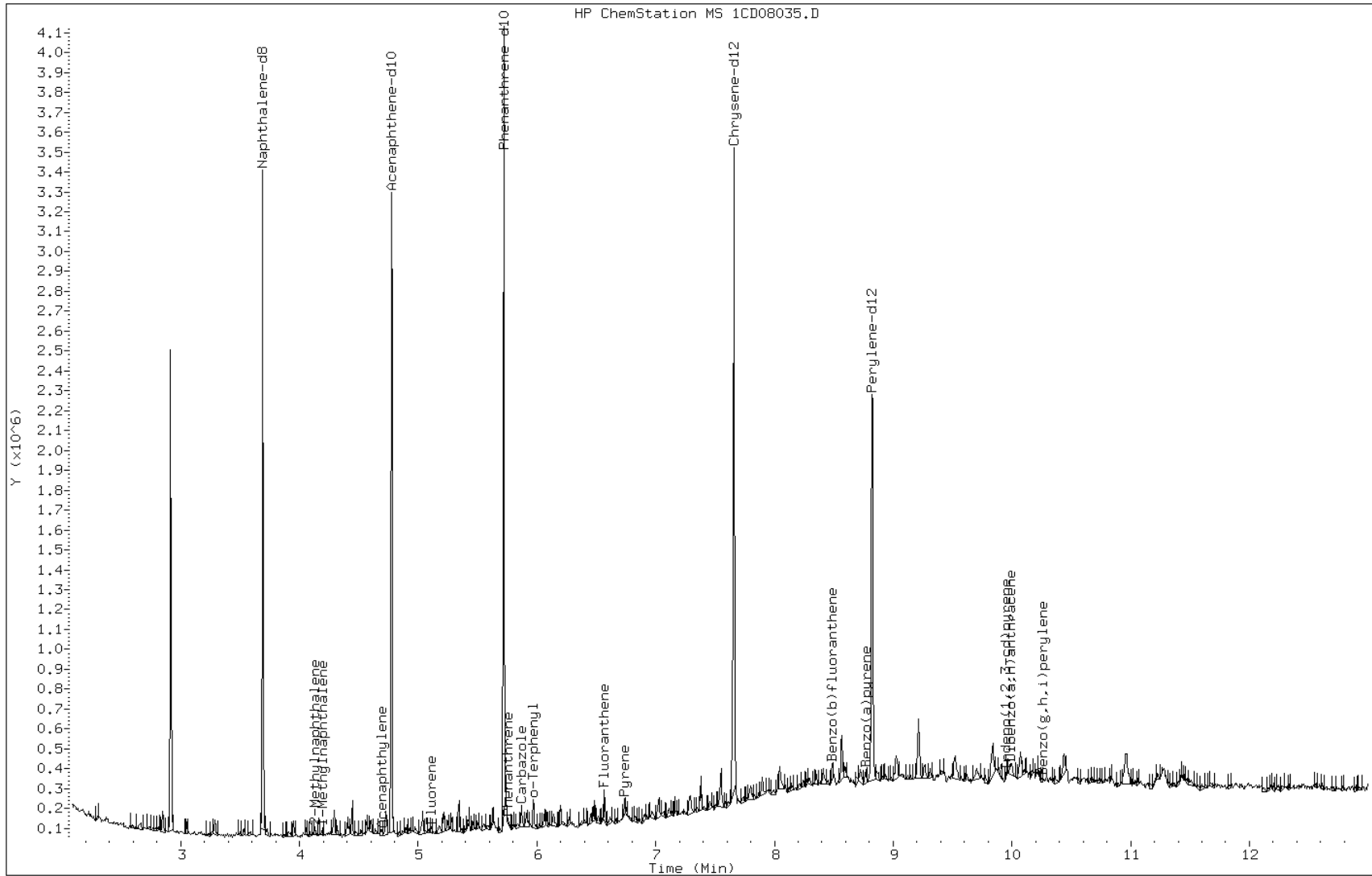
Date: 08-APR-2013 22:55

Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

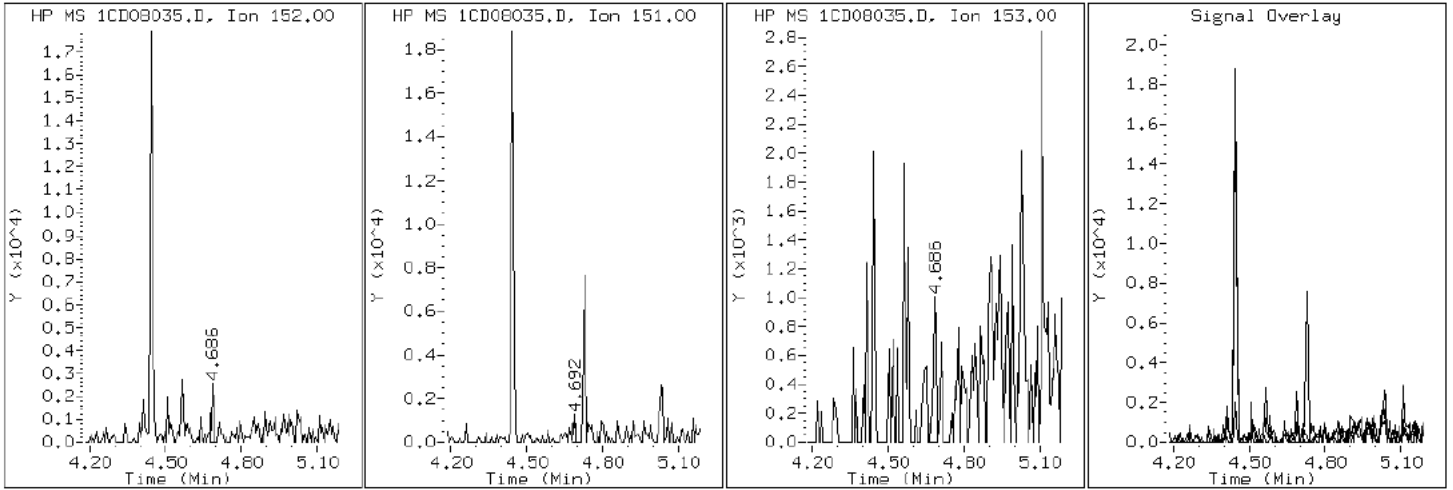
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

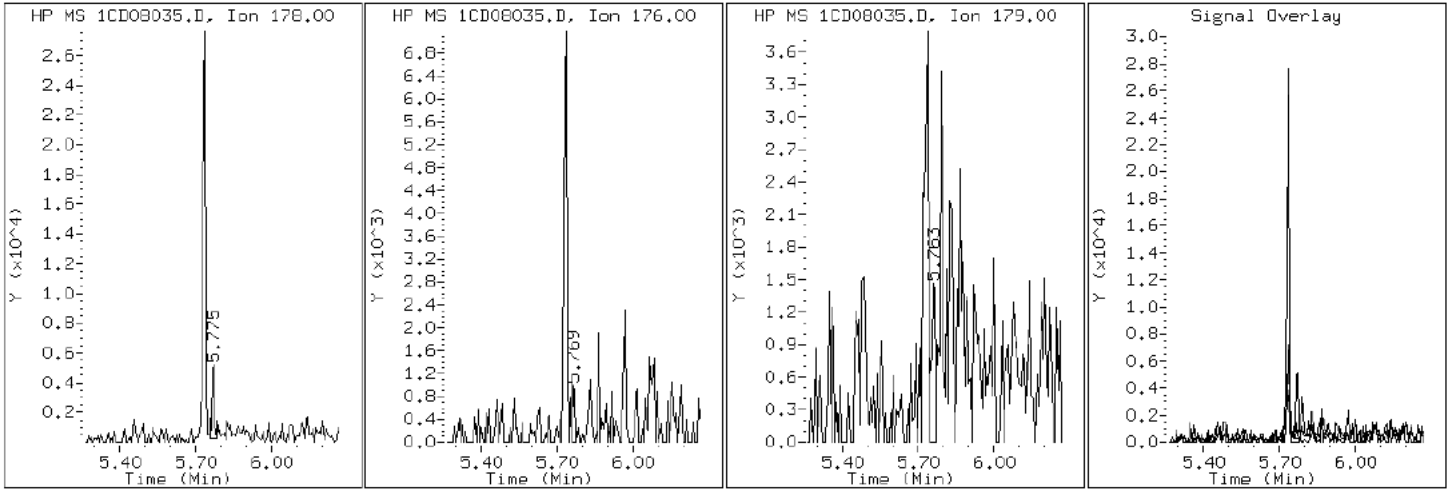
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

12 Anthracene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

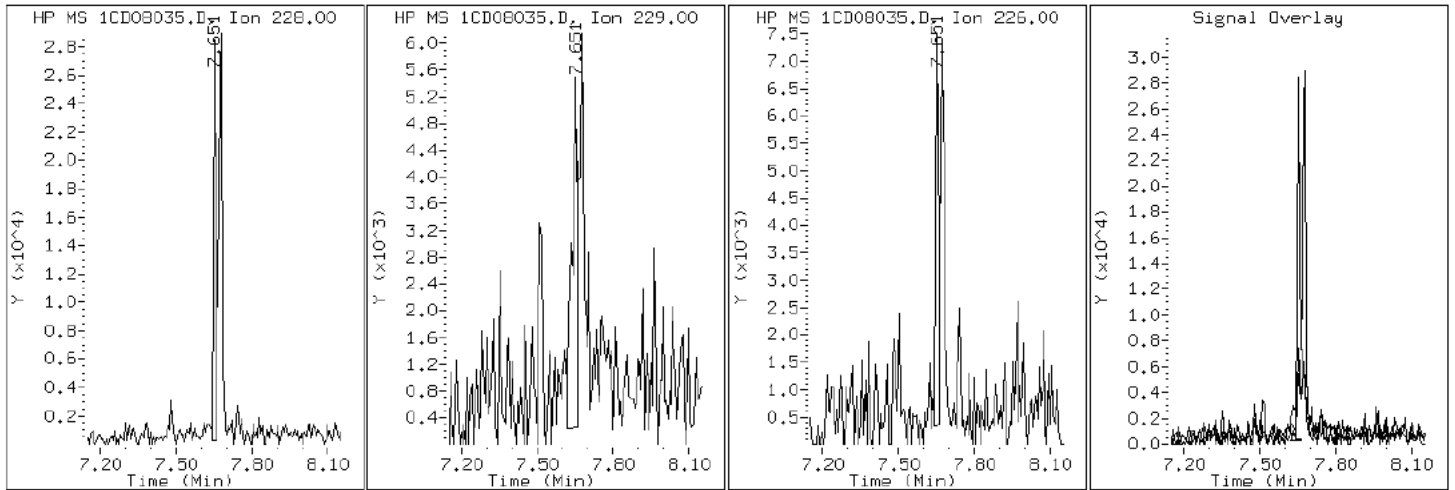
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

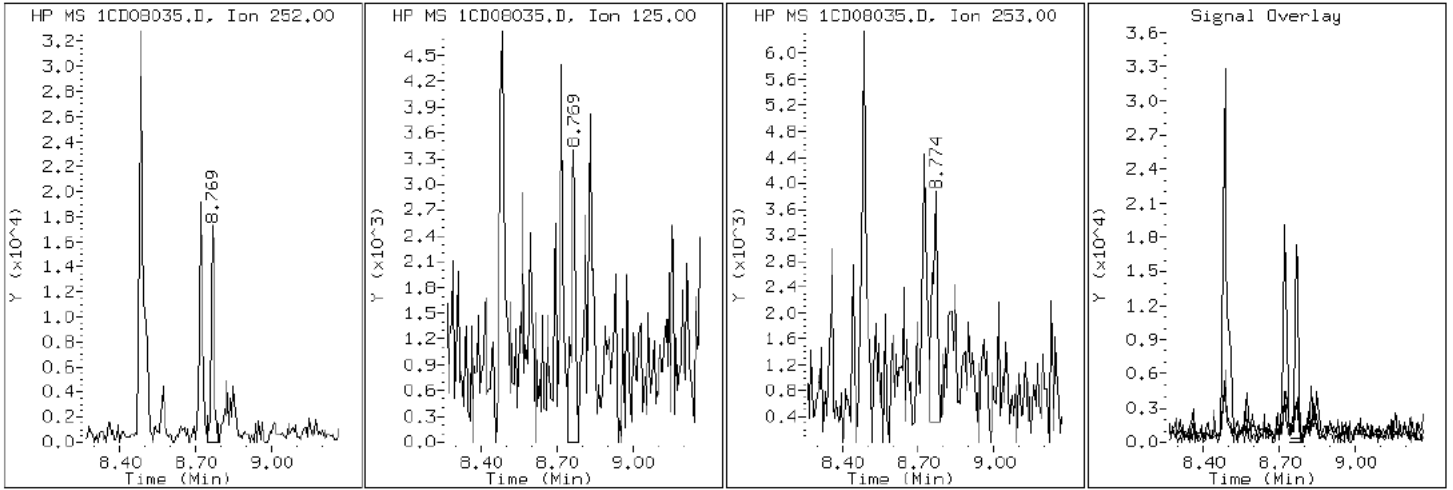
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

22 Benzo(a)pyrene





Data File: 1CD08035.D

Date: 08-APR-2013 22:55

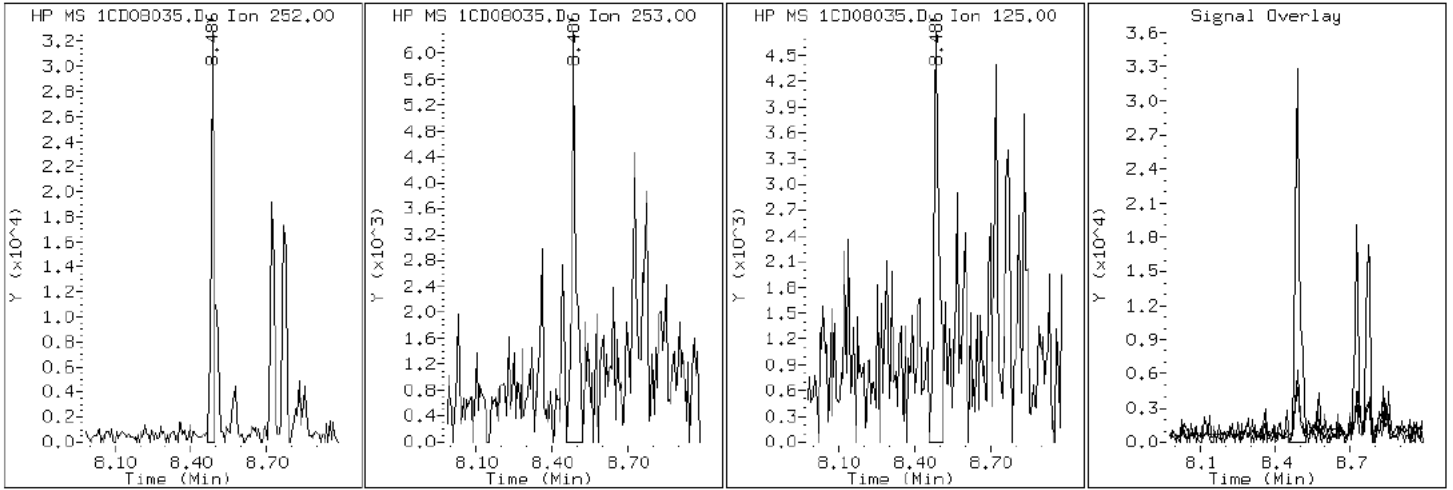
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

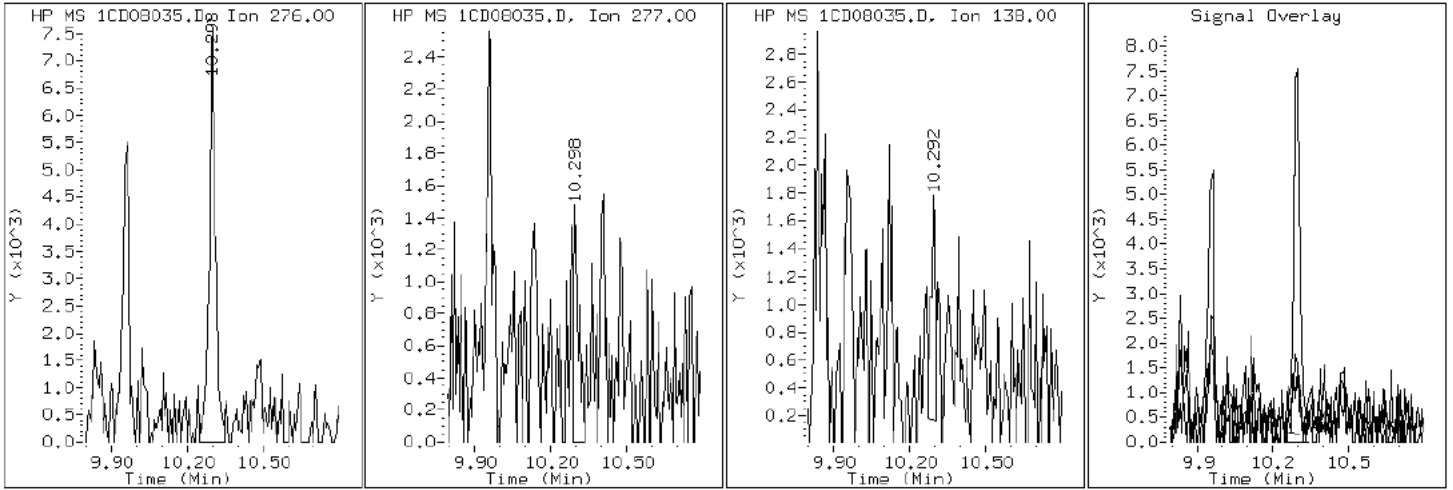
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

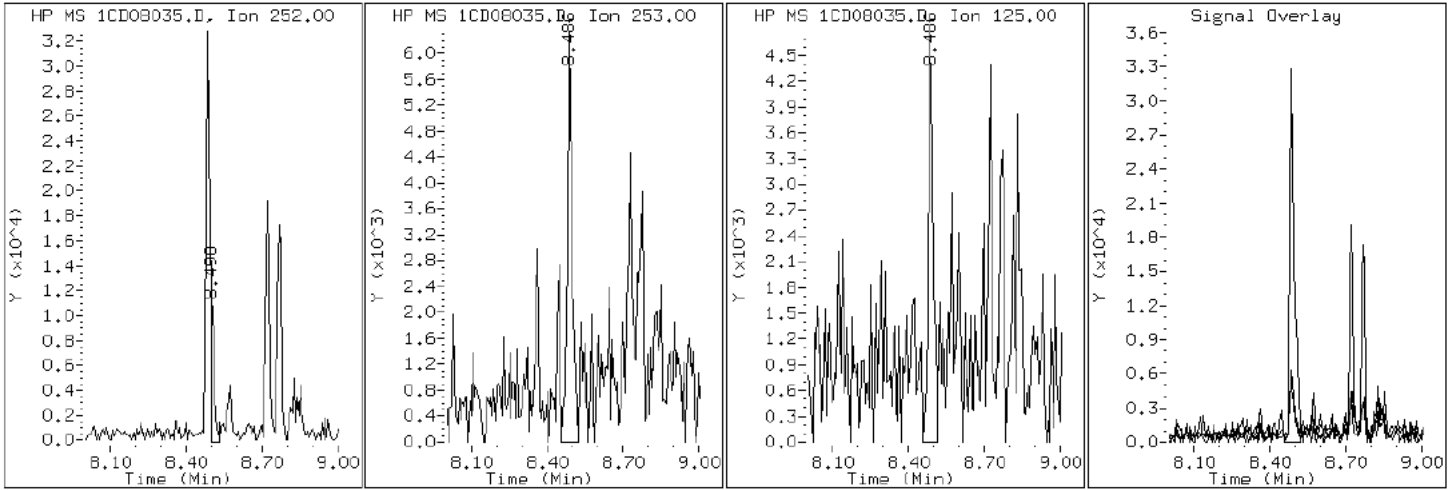
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

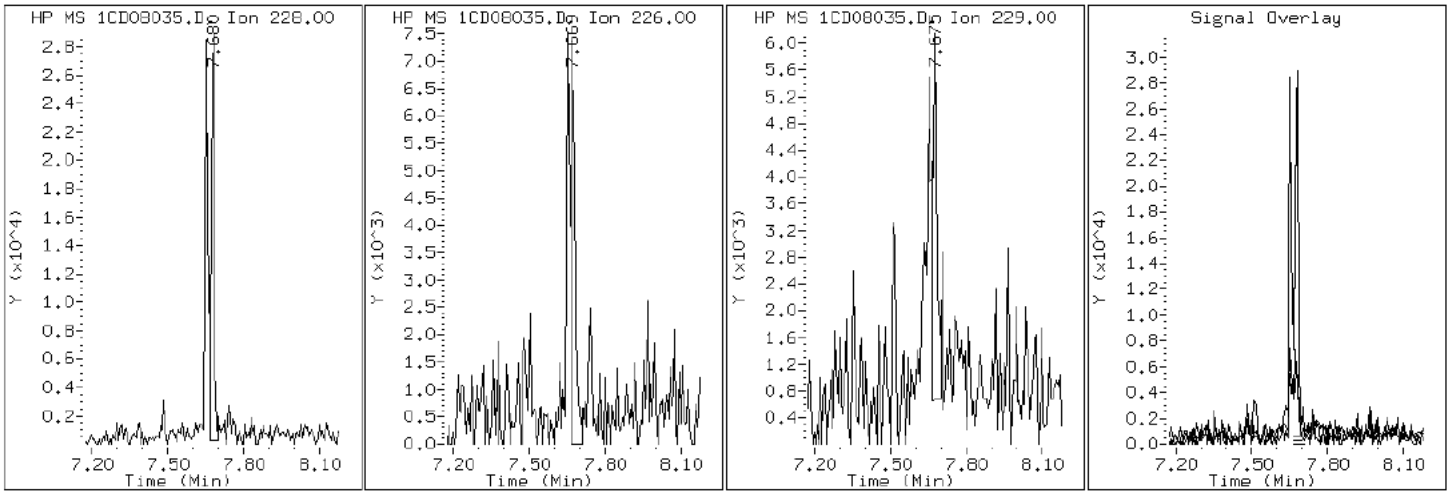
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

19 Chrysene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

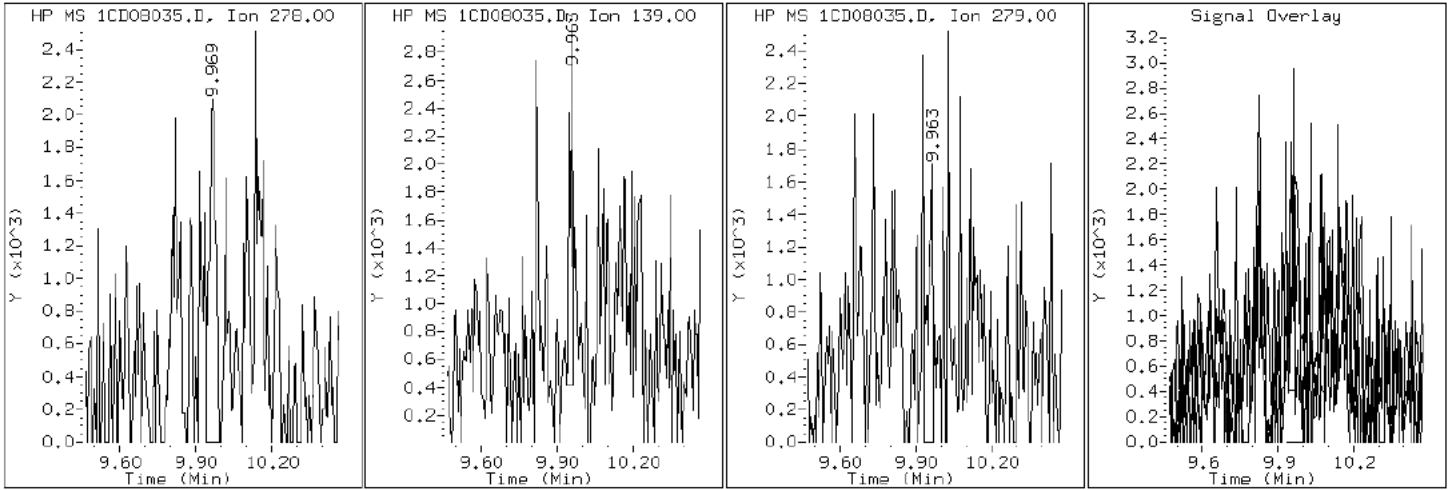
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

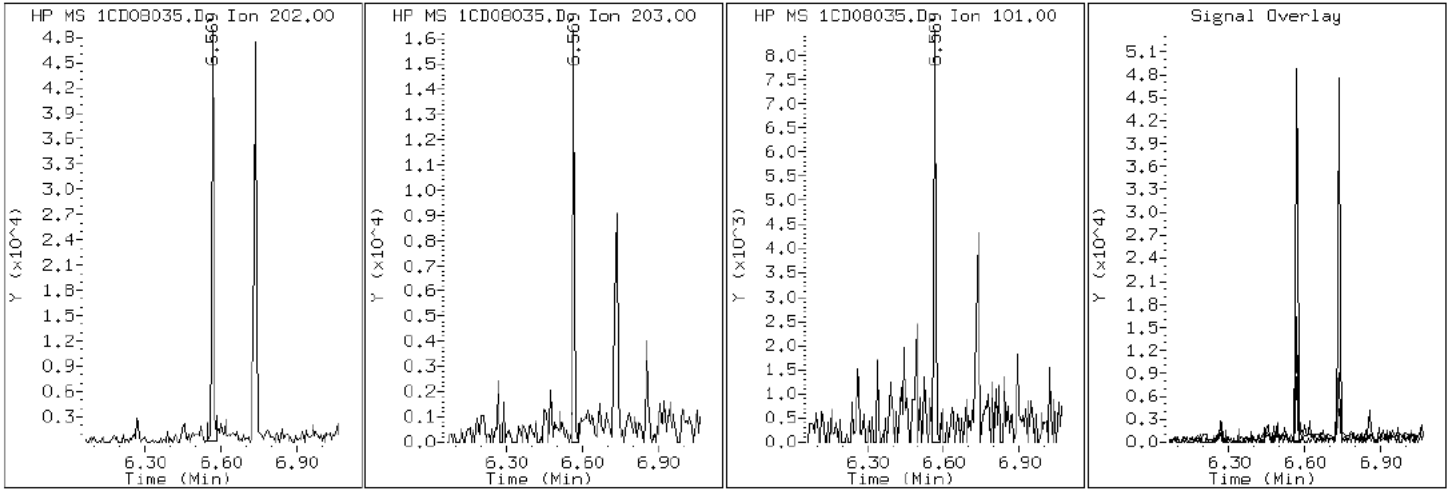
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

15 Fluoranthene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

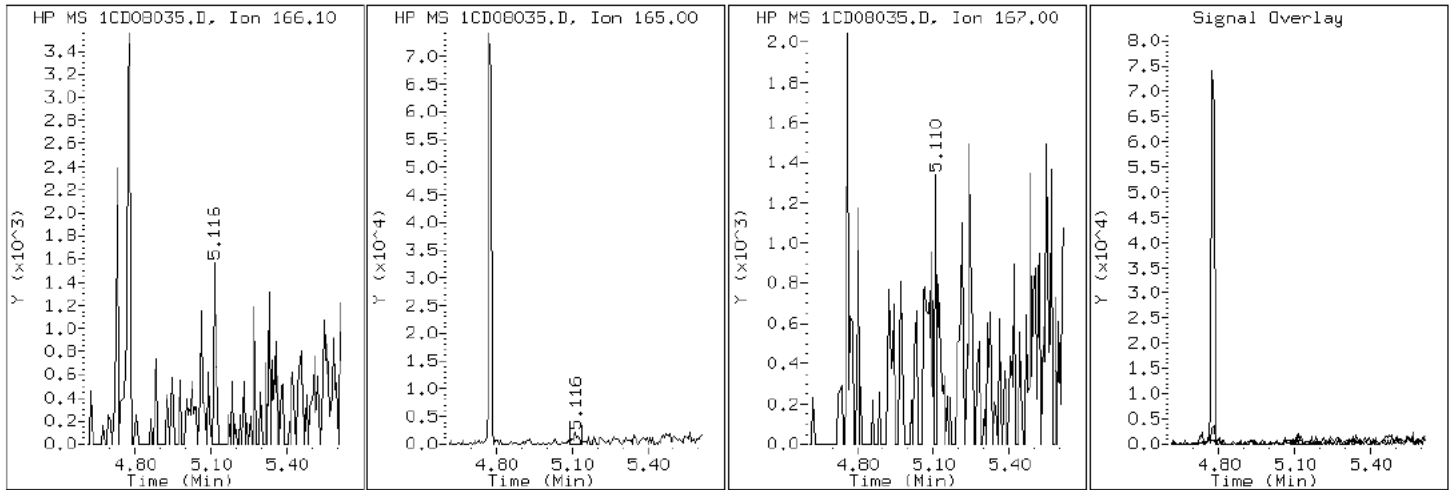
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

9 Fluorene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

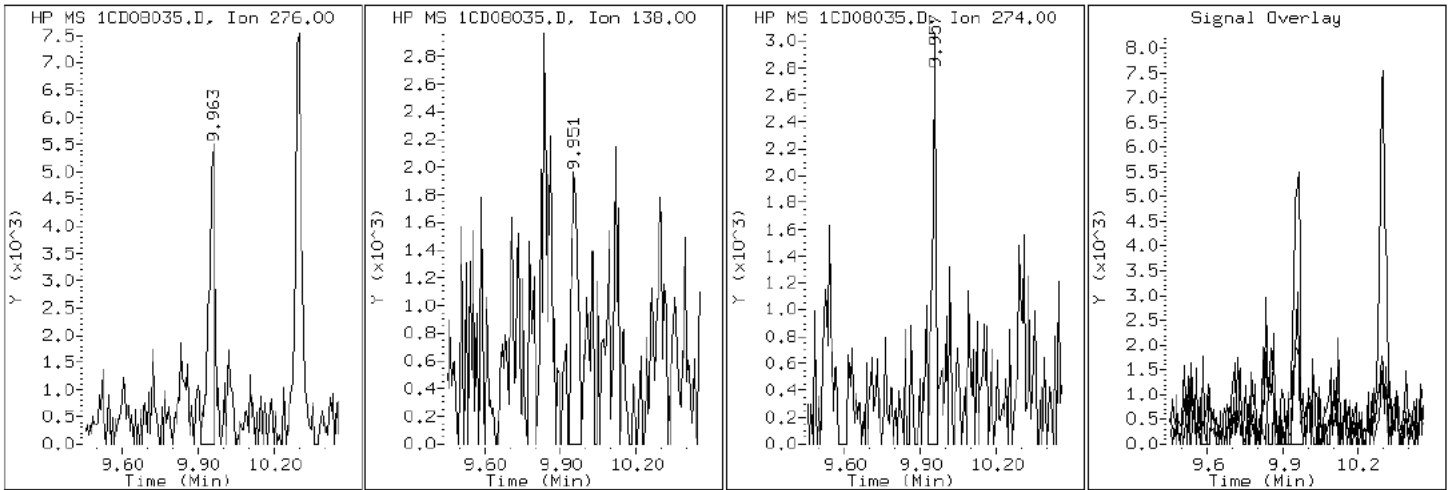
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

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





Data File: 1CD08035.D

Date: 08-APR-2013 22:55

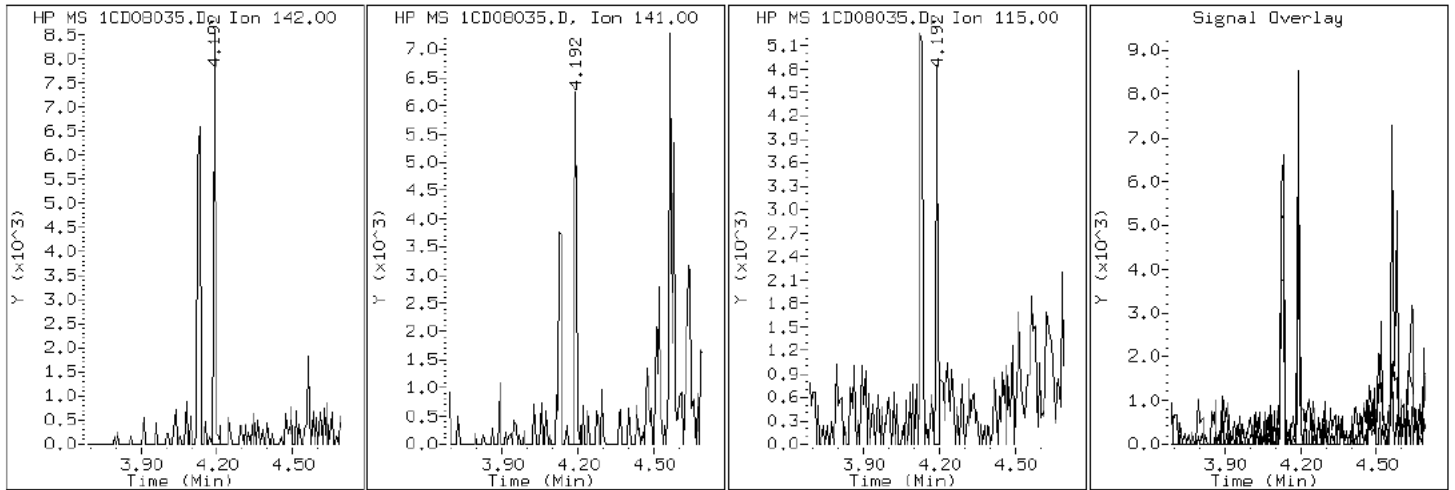
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

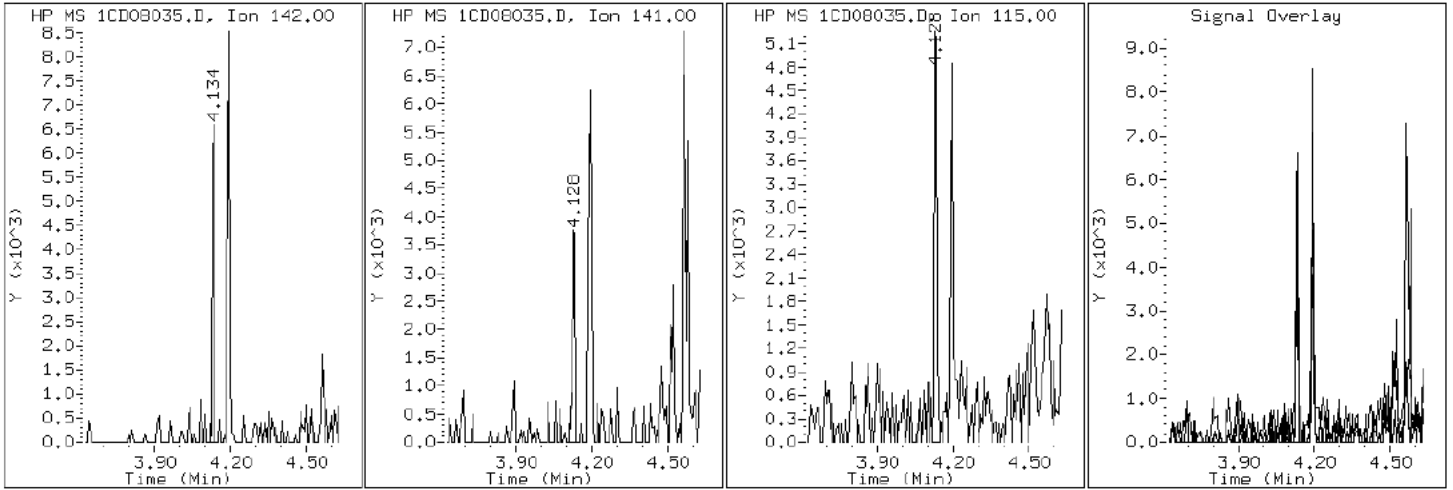
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

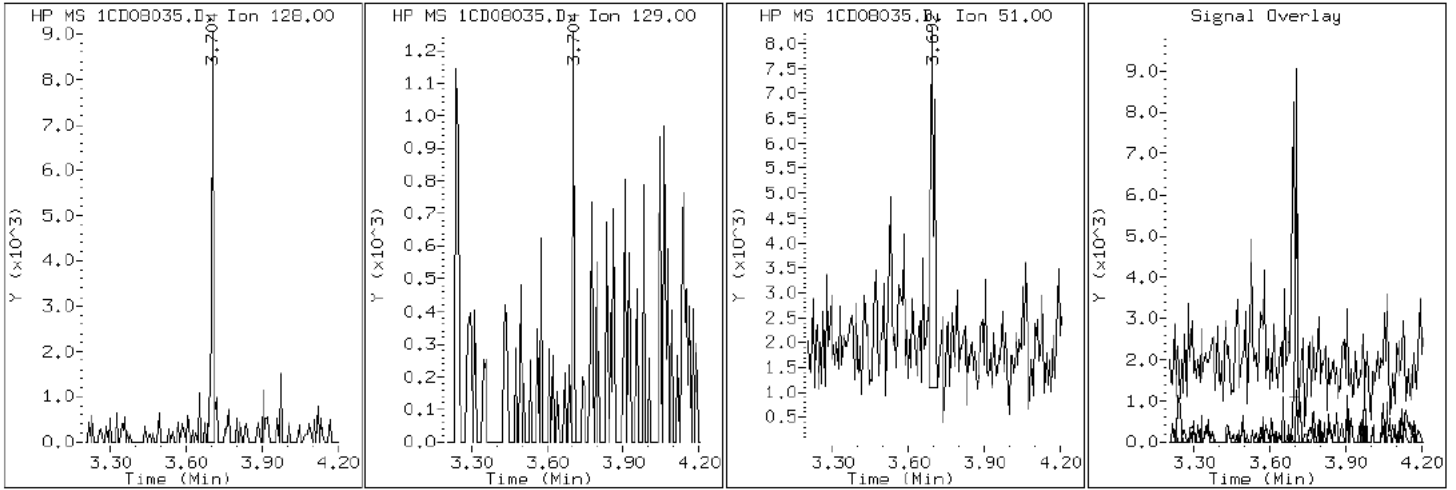
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

2 Naphthalene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

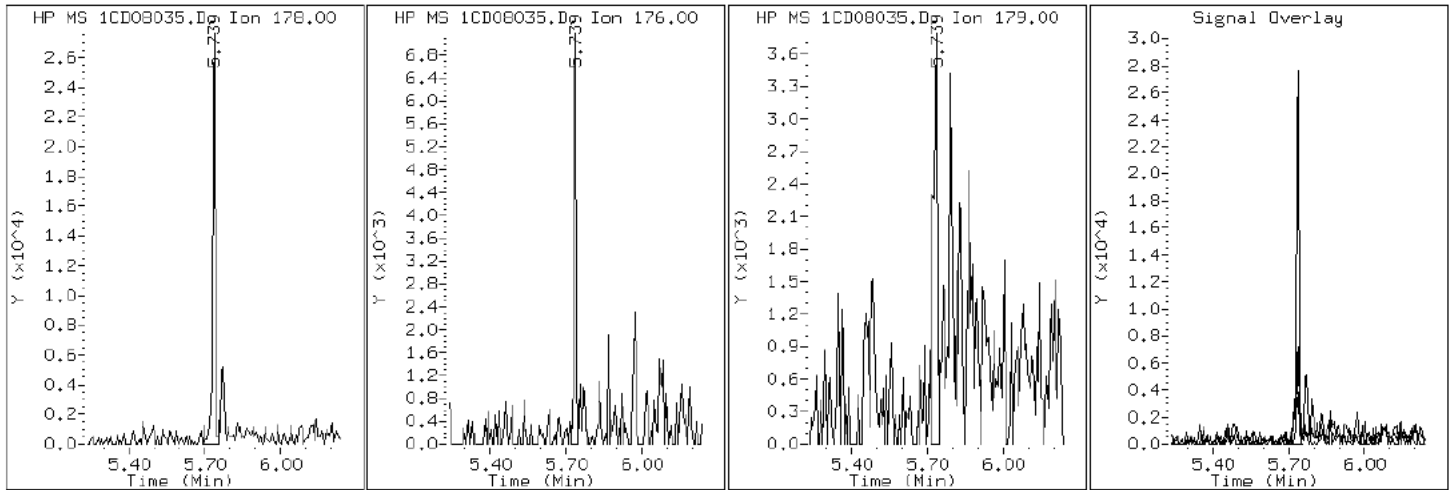
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

11 Phenanthrene



Data File: 1CD08035.D

Date: 08-APR-2013 22:55

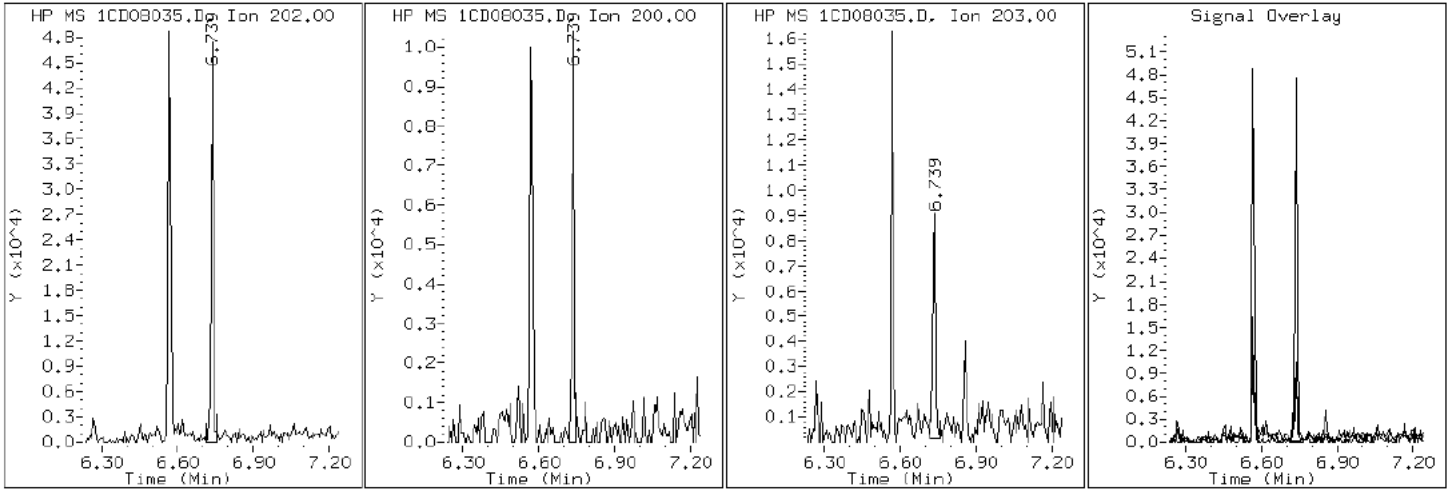
Client ID: CV0283C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-11-A

Operator: TP

16 Pyrene

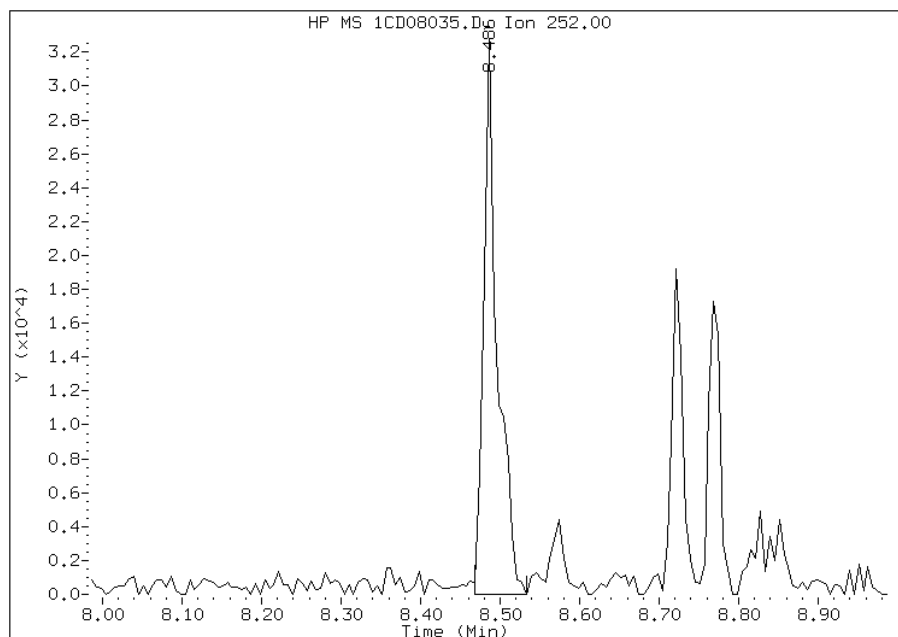


# Manual Integration Report

Data File: 1CD08035.D  
Inj. Date and Time: 08-APR-2013 22:55  
Instrument ID: BSMC5973.i  
Client ID: CV0283C-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

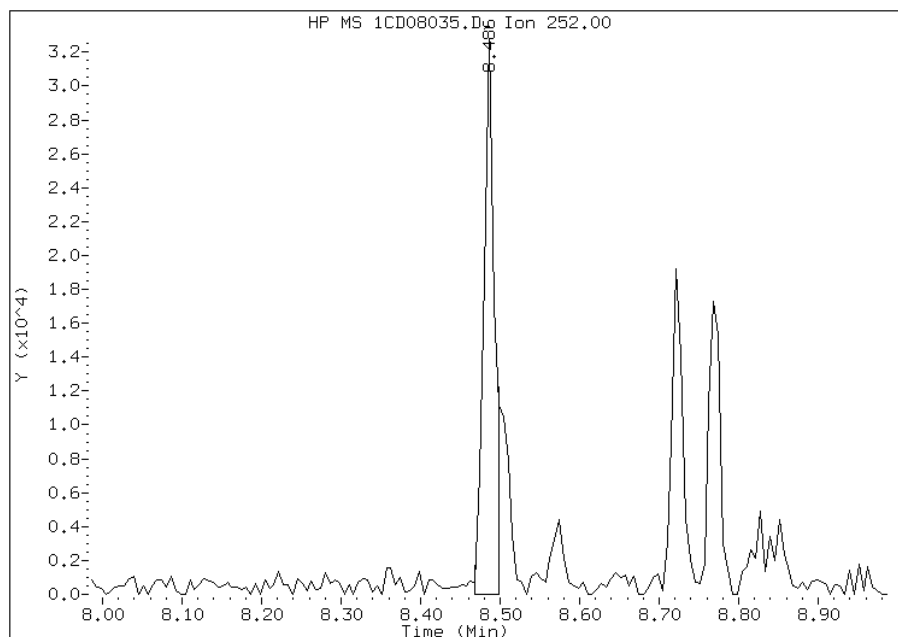
## Processing Integration Results

RT: 8.49  
Response: 39190  
Amount: 2  
Conc: 671



## Manual Integration Results

RT: 8.49  
Response: 30907  
Amount: 1  
Conc: 529



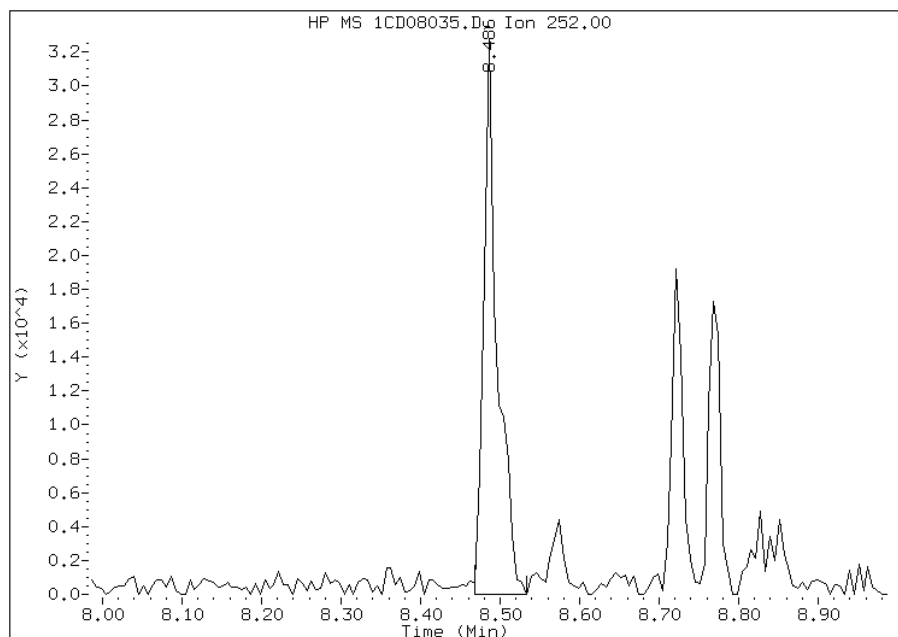
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:22  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08035.D  
Inj. Date and Time: 08-APR-2013 22:55  
Instrument ID: BSMC5973.i  
Client ID: CV0283C-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

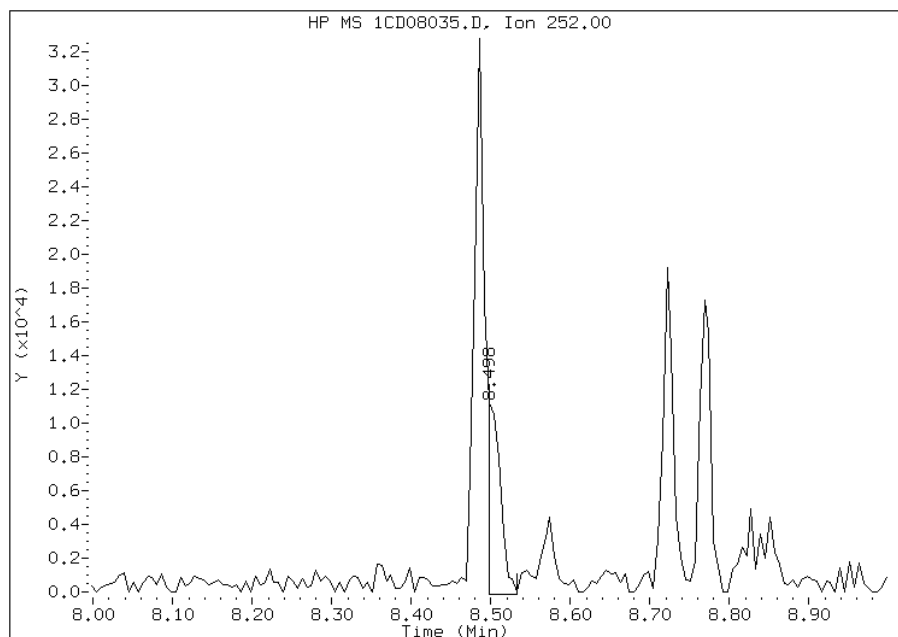
## Processing Integration Results

RT: 8.49  
Response: 39190  
Amount: 2  
Conc: 694



## Manual Integration Results

RT: 8.50  
Response: 12670  
Amount: 1  
Conc: 224



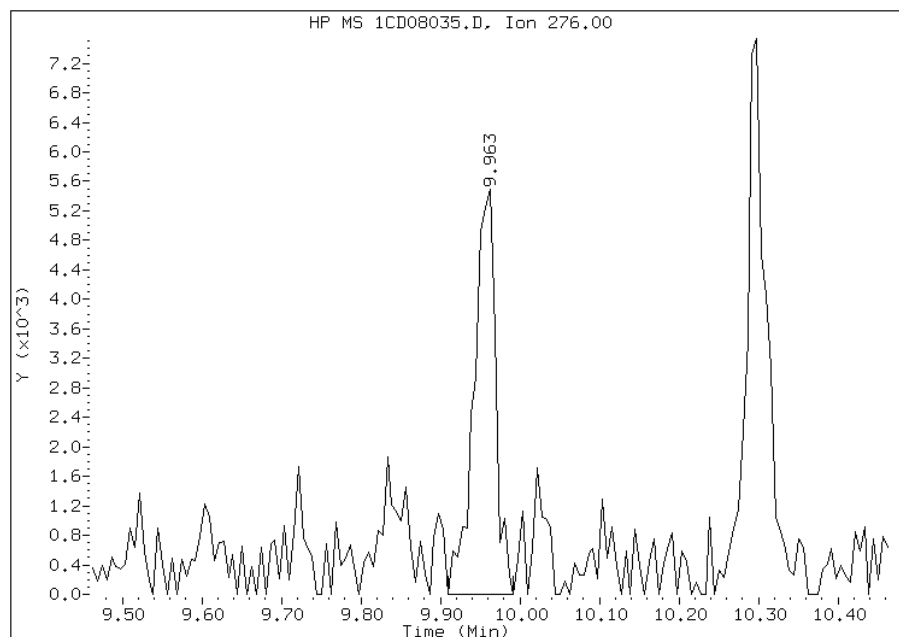
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:22  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08035.D  
Inj. Date and Time: 08-APR-2013 22:55  
Instrument ID: BSMC5973.i  
Client ID: CV0283C-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

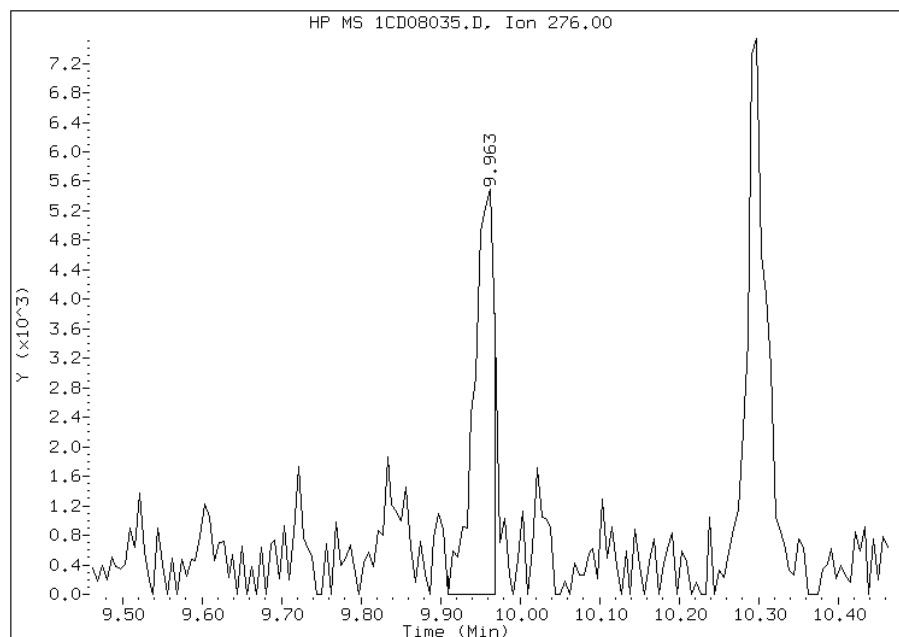
## Processing Integration Results

RT: 9.96  
Response: 10413  
Amount: 1  
Conc: 199



## Manual Integration Results

RT: 9.96  
Response: 9708  
Amount: 1  
Conc: 186



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:22  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0284A-CS Lab Sample ID: 680-88811-12  
 Matrix: Solid Lab File ID: 1CD08036.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:15  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.30(g) Date Analyzed: 04/08/2013 23:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	35	J	210	26
120-12-7	Anthracene	99		43	22
56-55-3	Benzo[a]anthracene	470		41	20
50-32-8	Benzo[a]pyrene	300		54	27
205-99-2	Benzo[b]fluoranthene	500		63	31
191-24-2	Benzo[g,h,i]perylene	170		100	23
207-08-9	Benzo[k]fluoranthene	190		41	19
218-01-9	Chrysene	320		46	23
53-70-3	Dibenz(a,h)anthracene	89	J	100	21
206-44-0	Fluoranthene	650		100	21
86-73-7	Fluorene	37	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	37
90-12-0	1-Methylnaphthalene	81	J	210	23
91-57-6	2-Methylnaphthalene	83	J	210	37
91-20-3	Naphthalene	68	J	210	23
85-01-8	Phenanthrene	380		41	20
129-00-0	Pyrene	500		100	19

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\1CD08036.D  
 Lab Smp Id: 680-88811-A-12-A Client Smp ID: CV0284A-CS  
 Inj Date : 08-APR-2013 23:13  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-12-A  
 Misc Info : 680-88811-A-12-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 36  
 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	15.300	Weight Extracted
M	23.886	% 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		3.692	3.692	(1.000)	602314	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	427449	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	789415	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	18169	2.13545	733.4888	
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	811948	40.0000		
* 23 Perylene-d12	264		8.821	8.821	(1.000)	737413	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	3068	0.19832	68.1177(Q)	
3 2-Methylnaphthalene	142		4.133	4.127	(1.119)	2533	0.24053	82.6178	
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	2221	0.23439	80.5079	
5 Acenaphthylene	152		4.692	4.686	(0.983)	1790	0.10118	34.7538	
9 Fluorene	166		5.115	5.115	(1.071)	1553	0.10632	36.5182	
11 Phenanthrene	178		5.739	5.739	(1.003)	25750	1.11998	384.6934	
12 Anthracene	178		5.768	5.768	(1.008)	6685	0.28683	98.5205	
13 Carbazole	167		5.880	5.880	(1.028)	3348	0.16767	57.5915(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.568	6.568	(1.148)	48158	1.89665	651.4629
16 Pyrene	202	6.739	6.739	(0.880)	32436	1.44214	495.3484
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	28668	1.35419	465.1387
19 Chrysene	228	7.674	7.674	(1.002)	21346	0.92259	316.8936
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	30531	1.46451	503.0312(M)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	11394	0.56509	194.0987(QM)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	17008	0.86655	297.6443
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	9104	0.48836	167.7411(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	4471	0.25963	89.1766(M)
26 Benzo(g,h,i)perylene	276	10.286	10.297	(1.166)	9556	0.50225	172.5121(M)

QC Flag Legend

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

Data File: 1CD08036.D

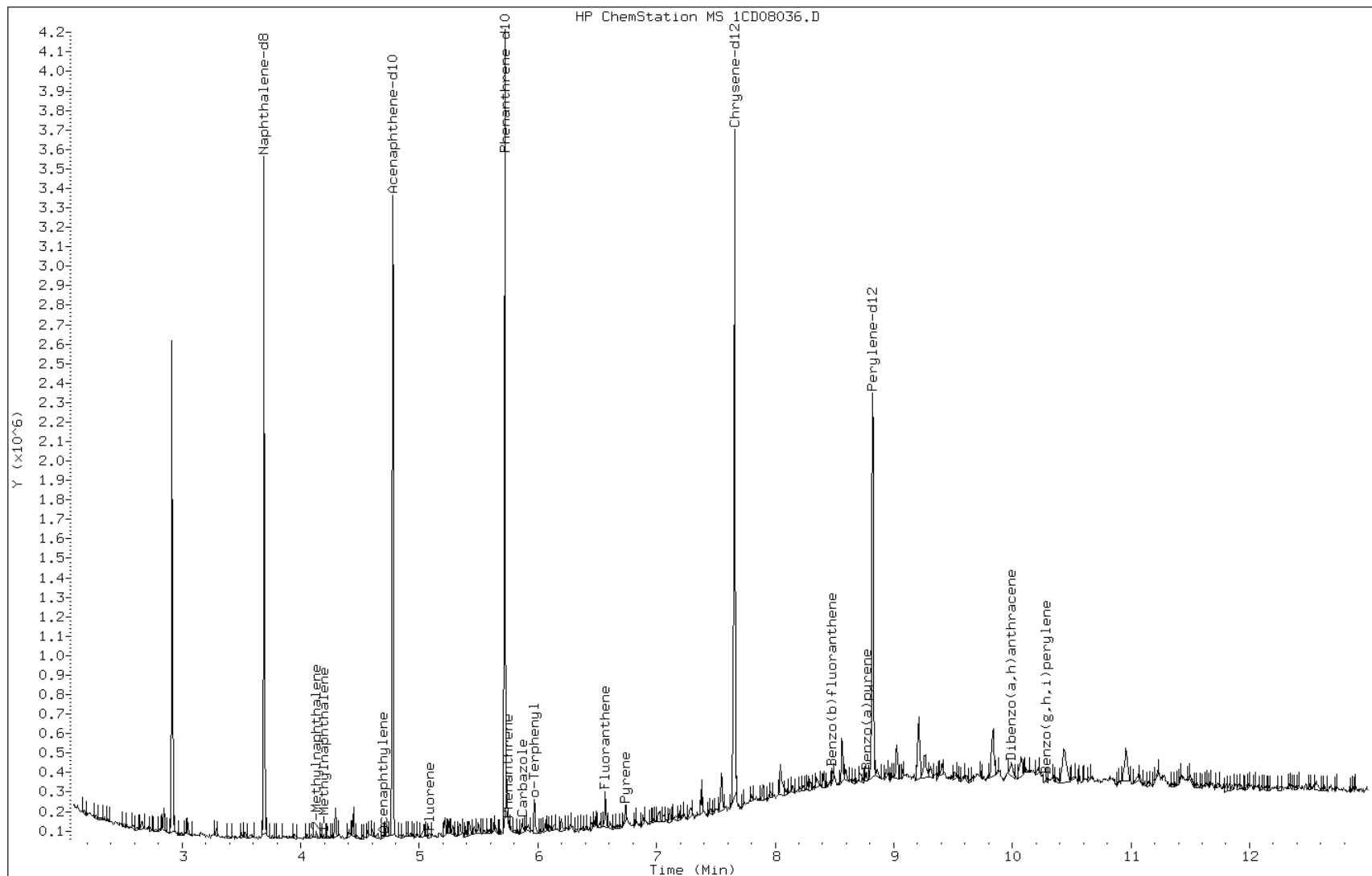
Date: 08-APR-2013 23:13

Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

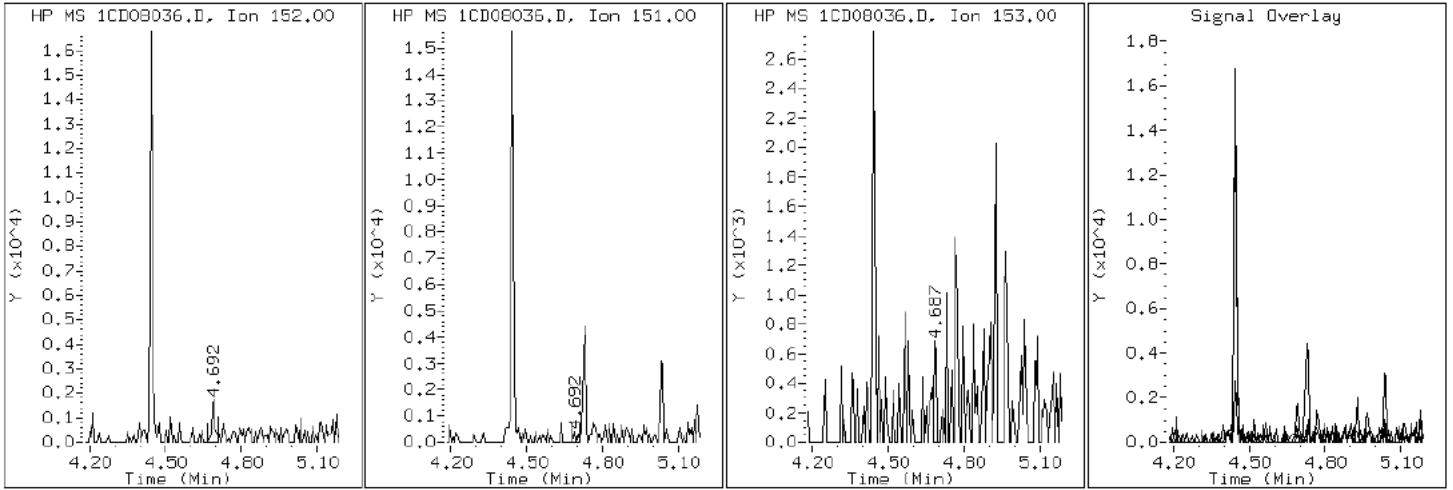
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

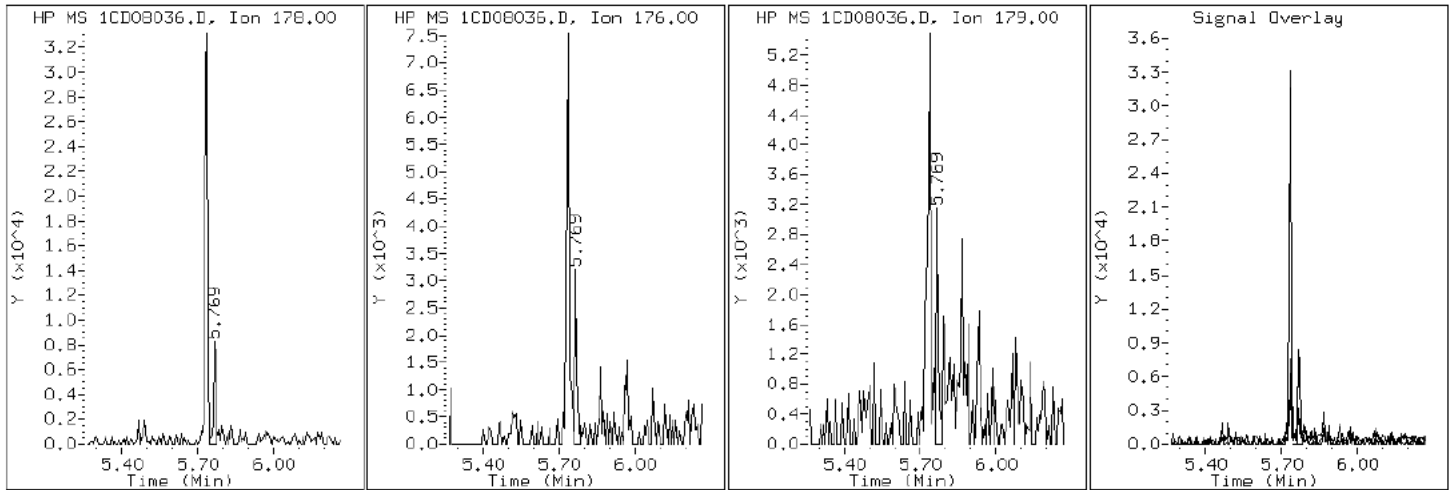
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

12 Anthracene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

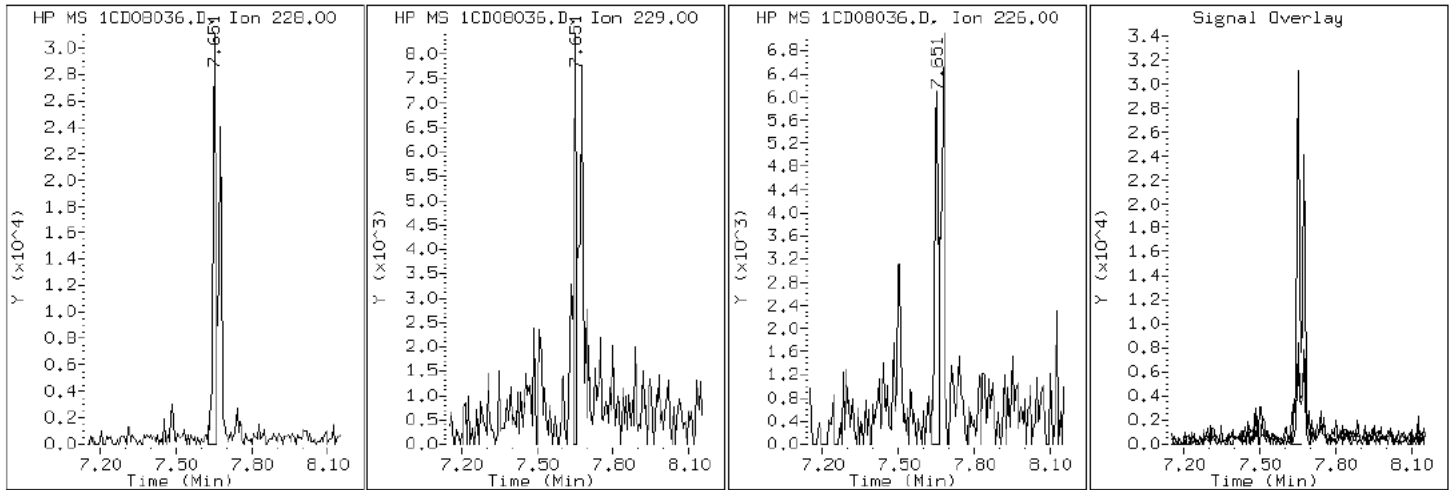
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

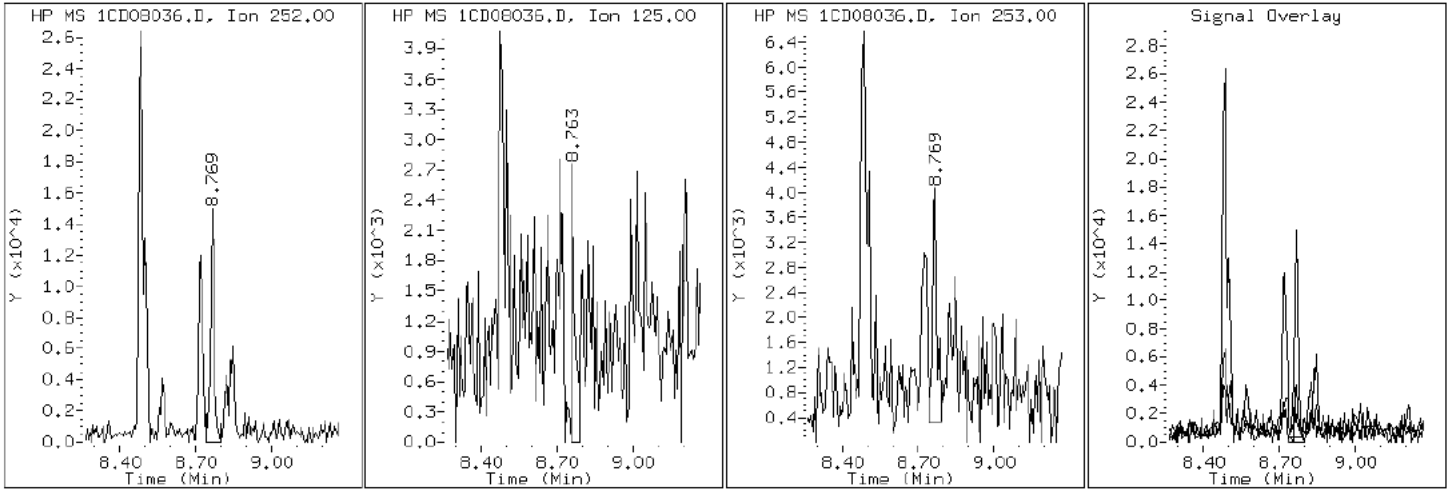
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

22 Benzo(a)pyrene





Data File: 1CD08036.D

Date: 08-APR-2013 23:13

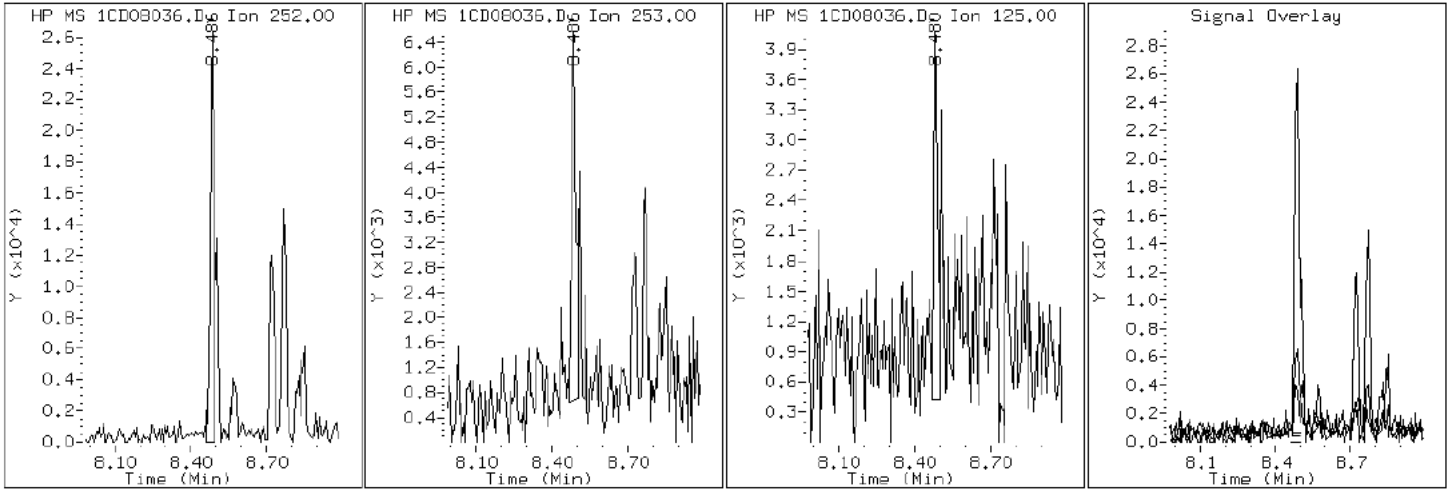
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

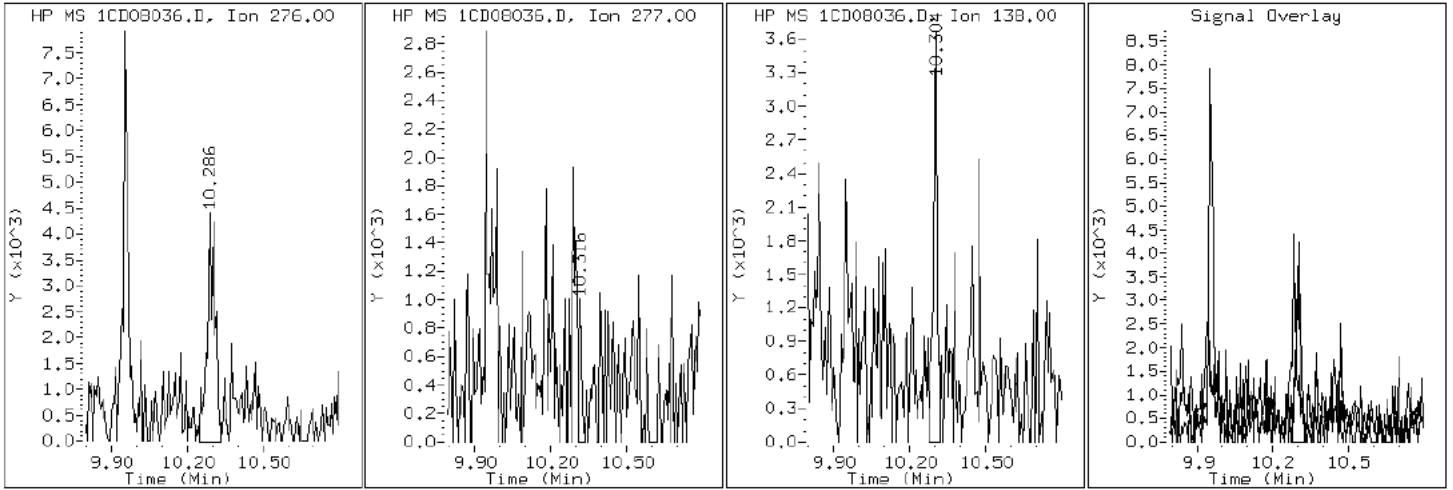
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

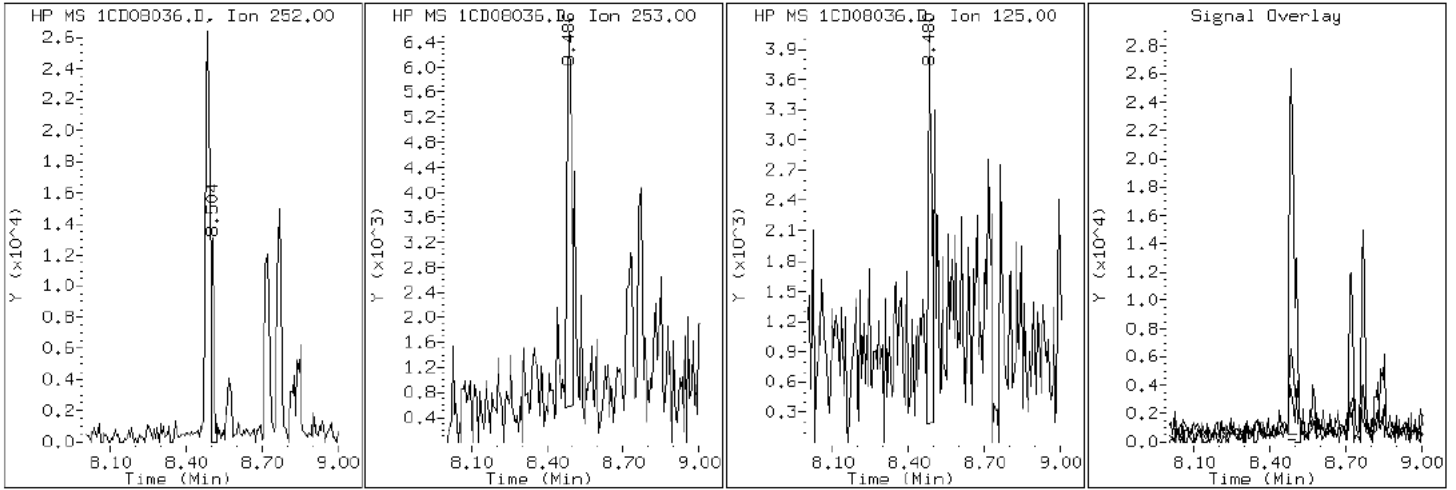
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

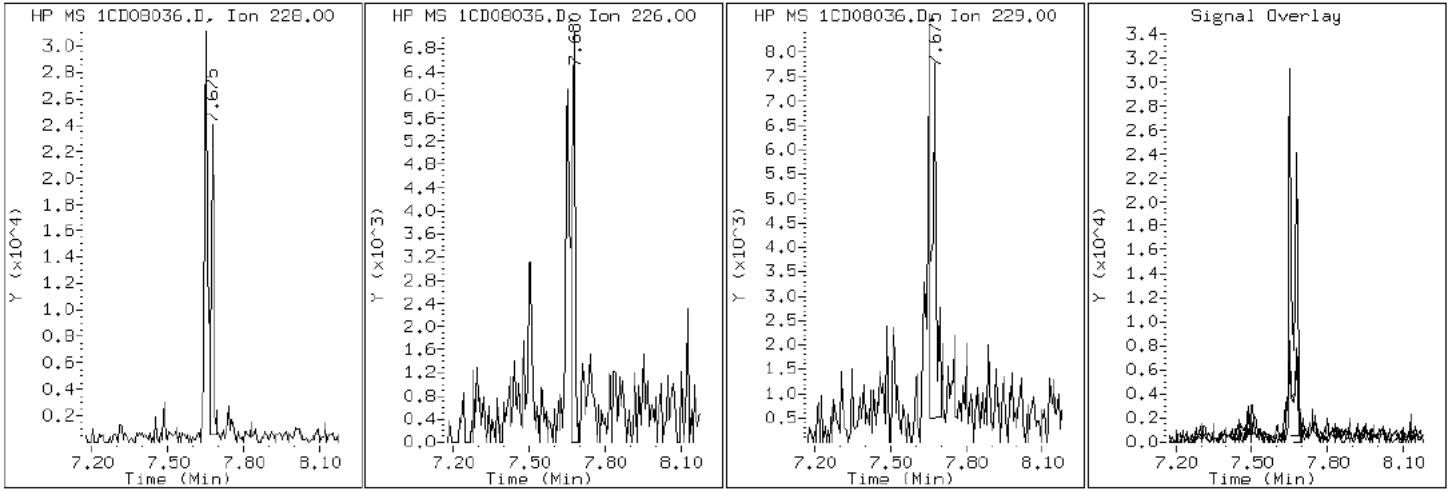
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

19 Chrysene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

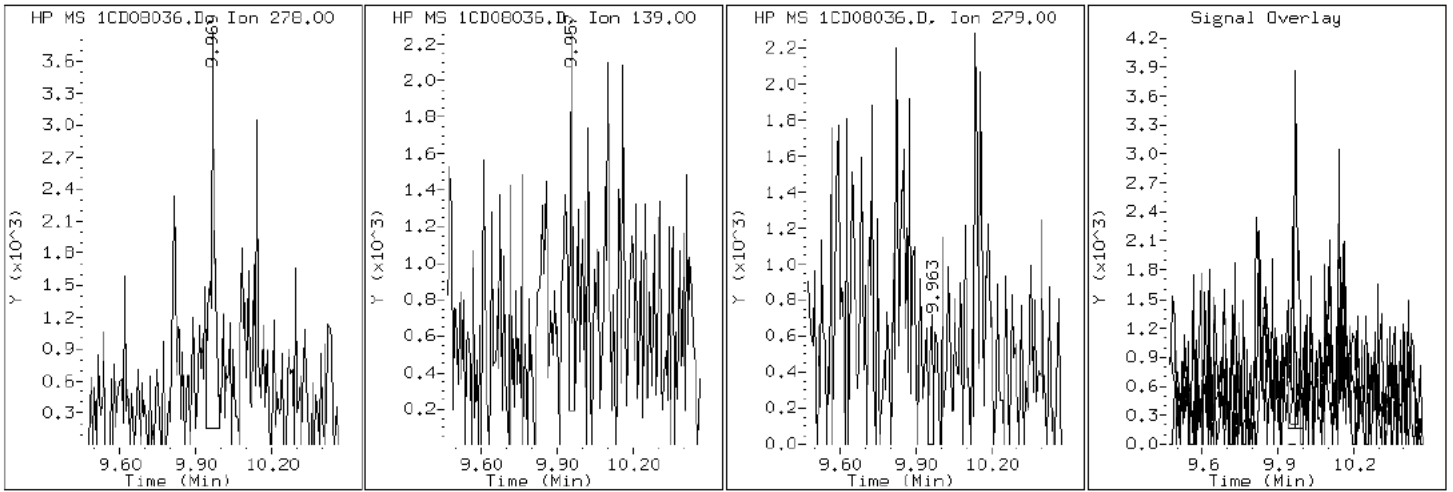
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

25 Dibenzo (a,h)anthracene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

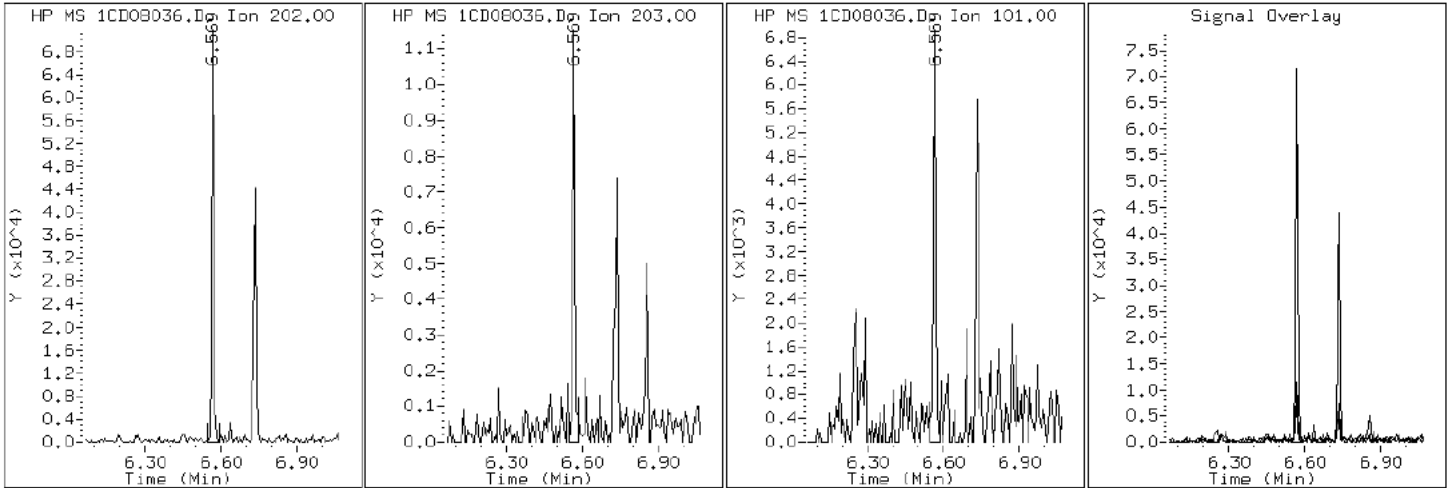
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

15 Fluoranthene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

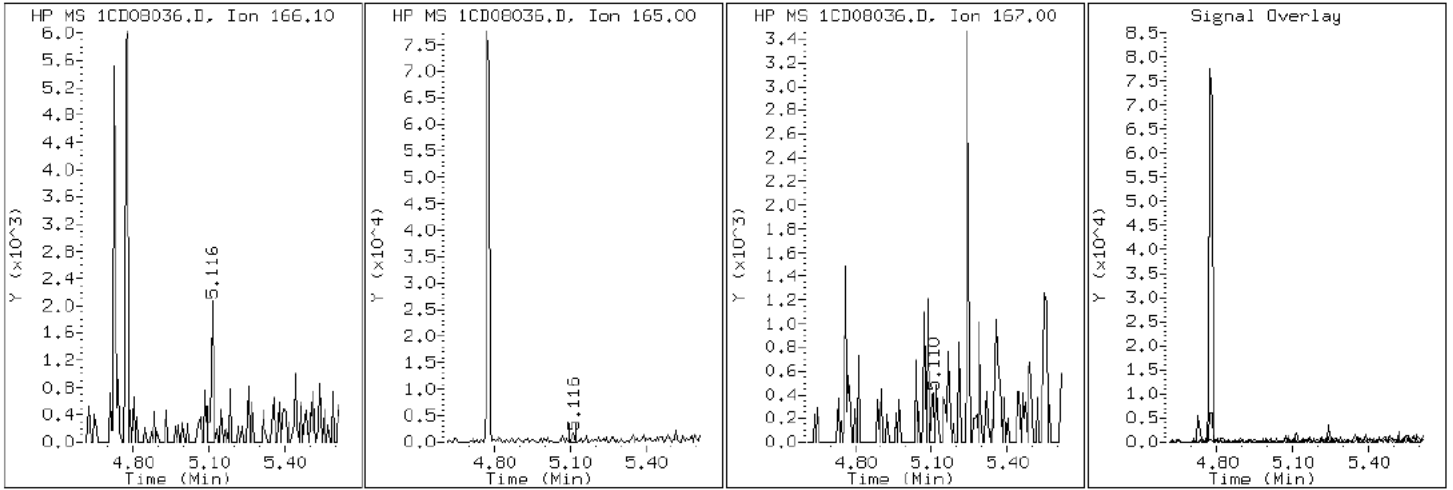
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

9 Fluorene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

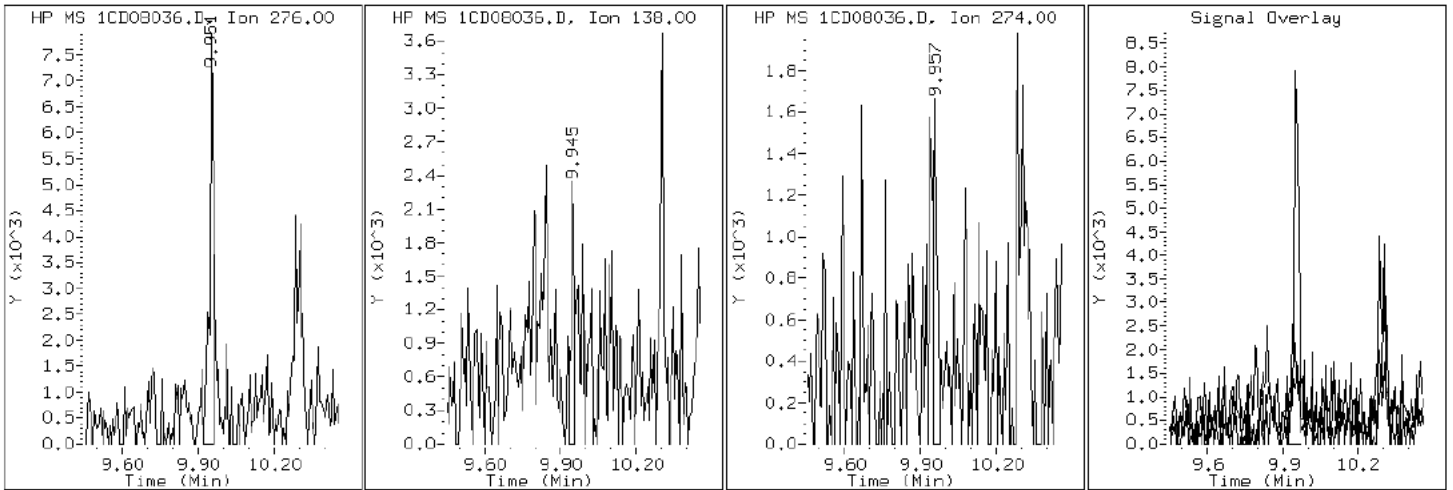
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

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





Data File: 1CD08036.D

Date: 08-APR-2013 23:13

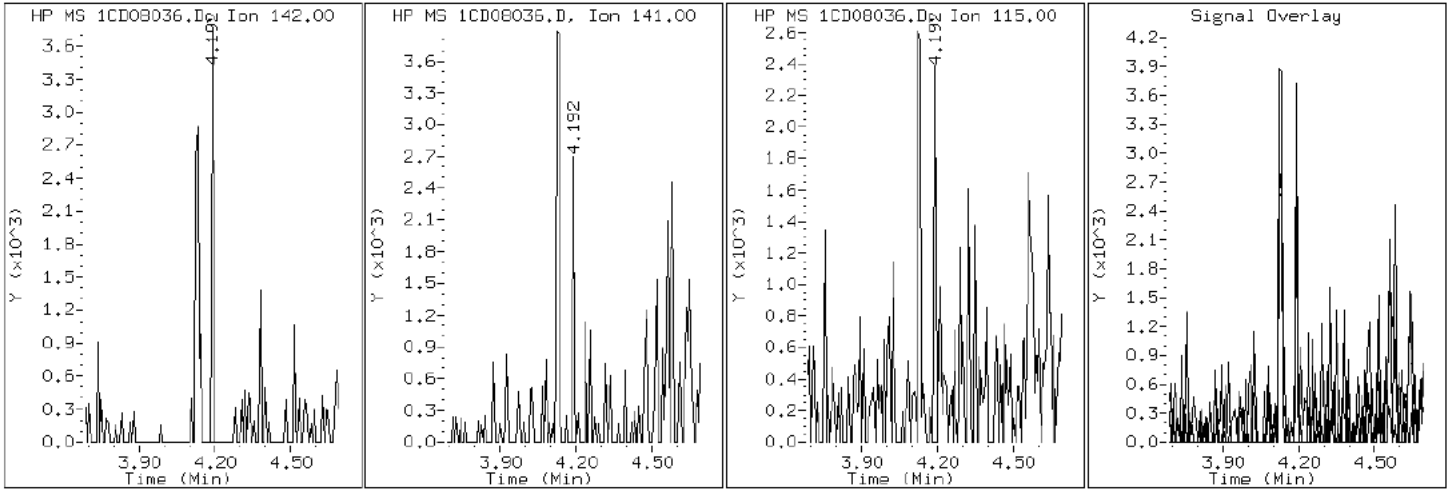
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

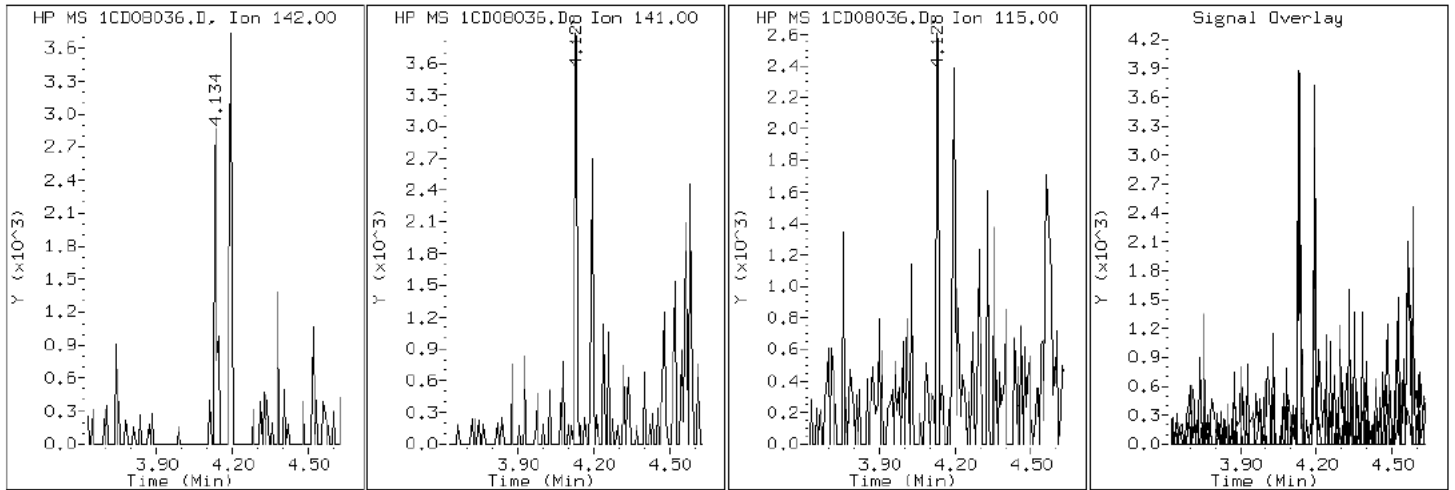
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

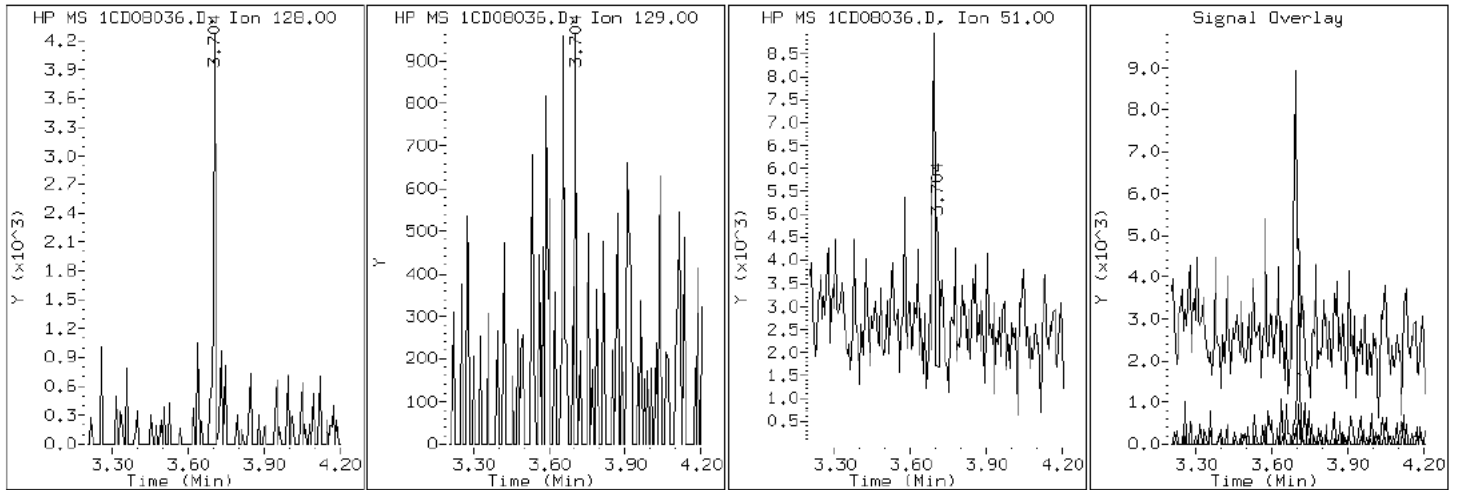
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

2 Naphthalene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

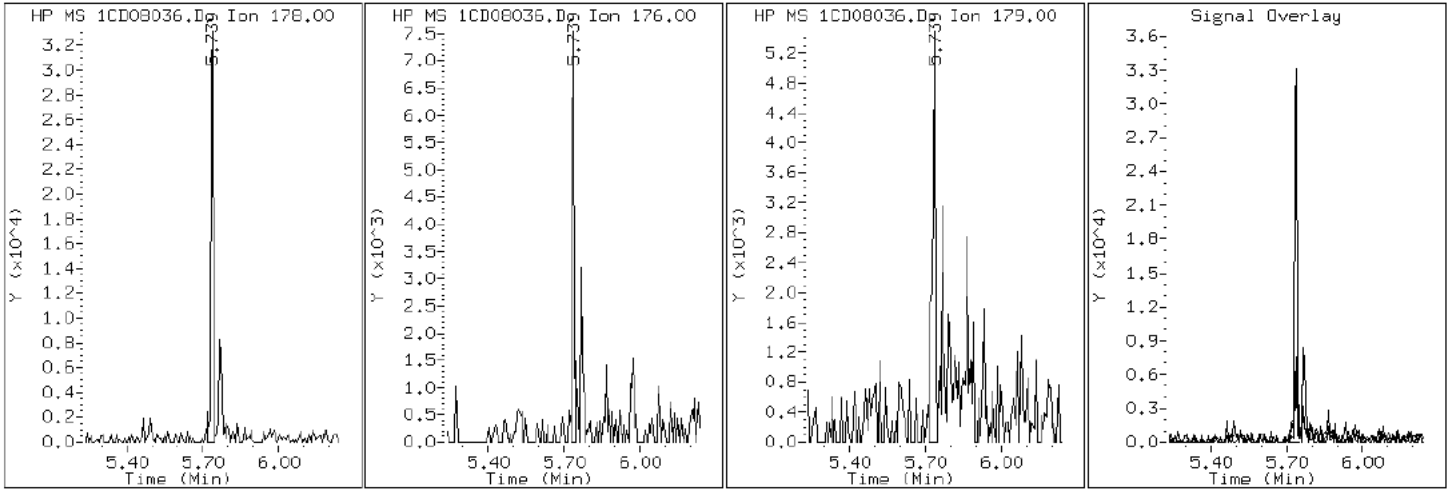
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

11 Phenanthrene



Data File: 1CD08036.D

Date: 08-APR-2013 23:13

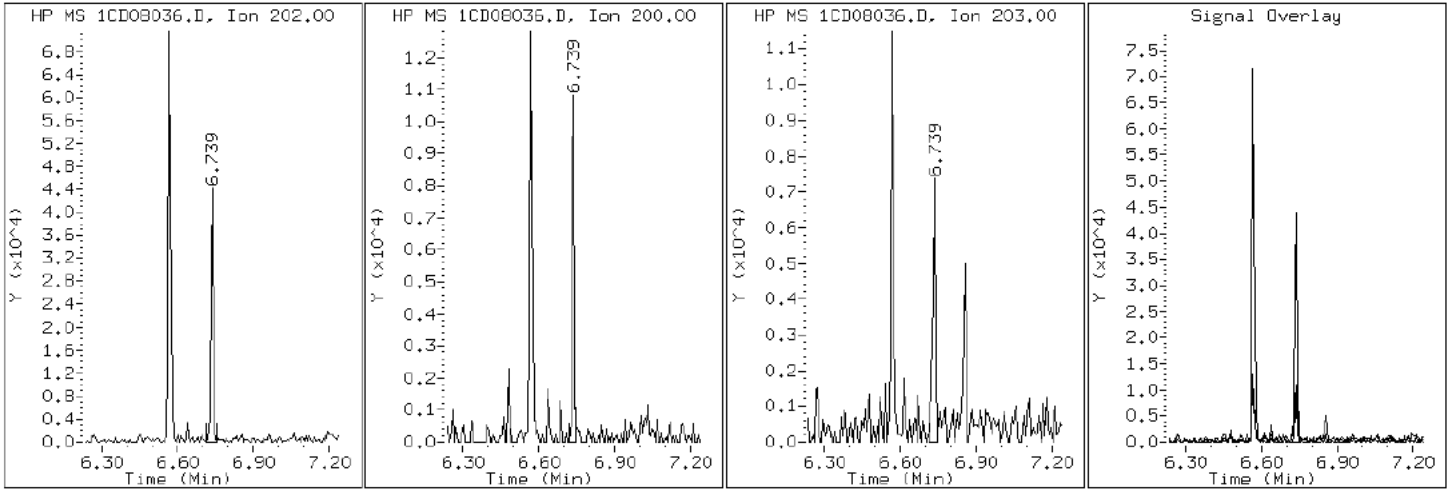
Client ID: CV0284A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-12-A

Operator: TP

16 Pyrene

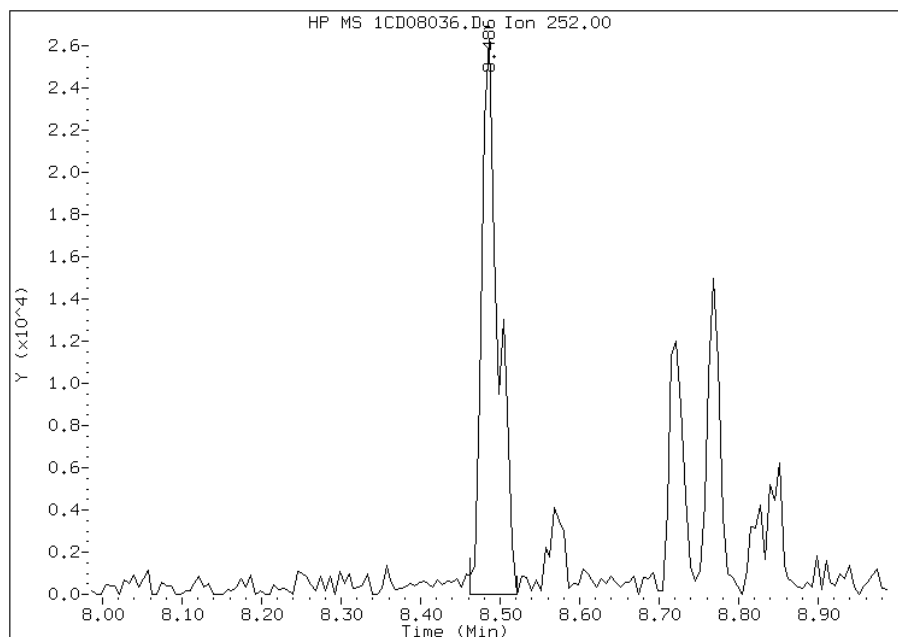


# Manual Integration Report

Data File: 1CD08036.D  
Inj. Date and Time: 08-APR-2013 23:13  
Instrument ID: BSMC5973.i  
Client ID: CV0284A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

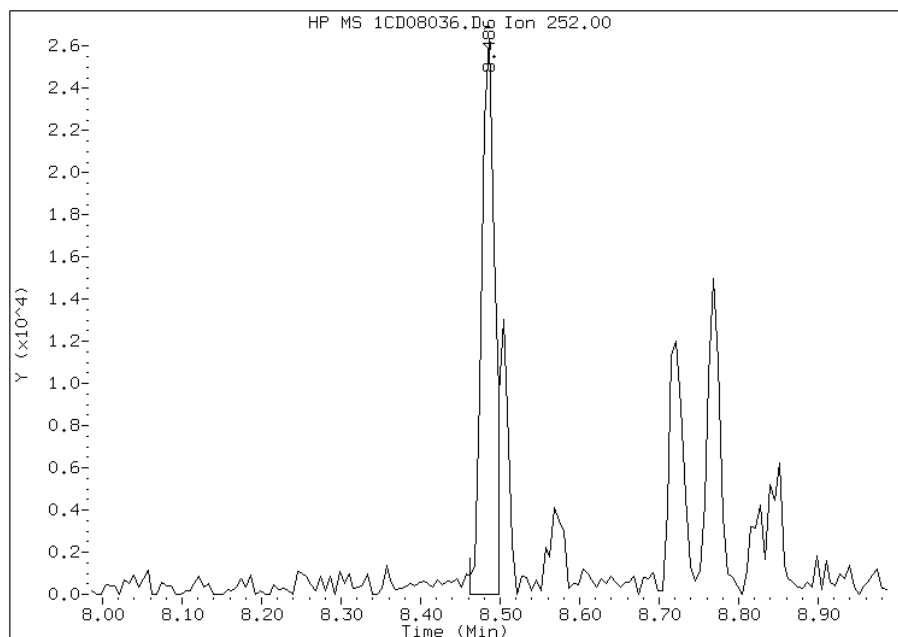
## Processing Integration Results

RT: 8.49  
Response: 38517  
Amount: 2  
Conc: 635



## Manual Integration Results

RT: 8.49  
Response: 30531  
Amount: 1  
Conc: 503



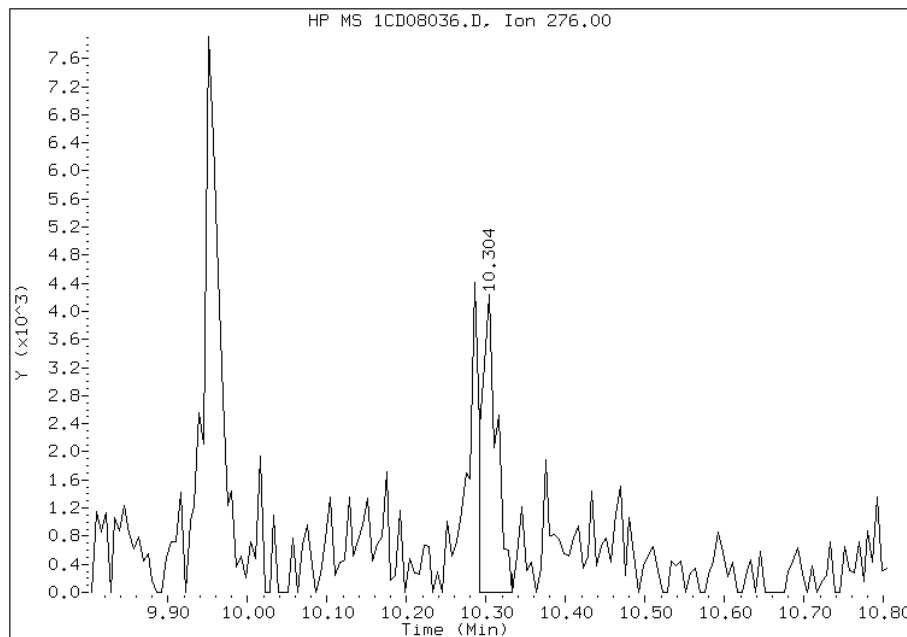
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:23  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08036.D  
Inj. Date and Time: 08-APR-2013 23:13  
Instrument ID: BSMC5973.i  
Client ID: CV0284A-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/09/2013

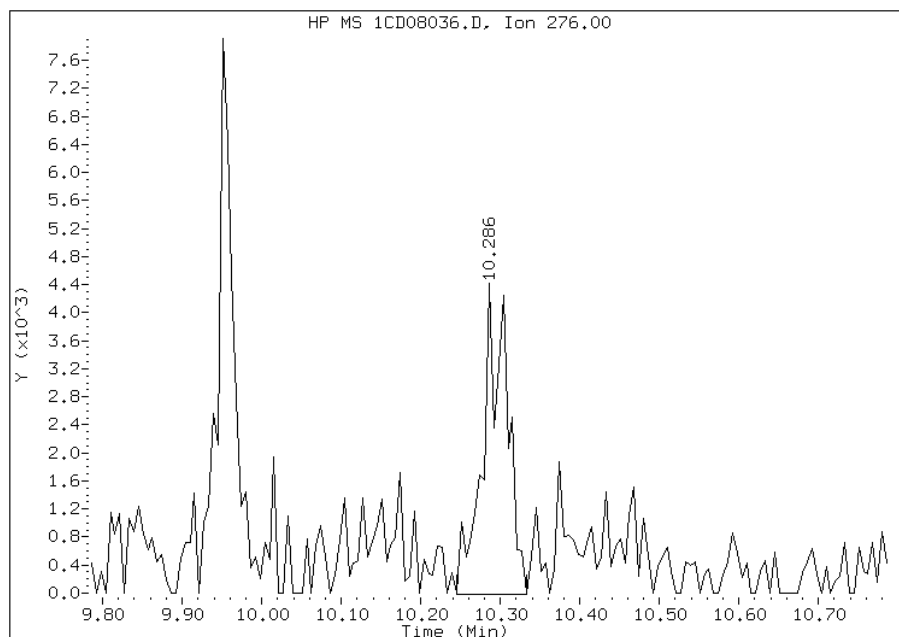
## Processing Integration Results

RT: 10.30  
Response: 5518  
Amount: 0  
Conc: 100



## Manual Integration Results

RT: 10.29  
Response: 9556  
Amount: 1  
Conc: 173



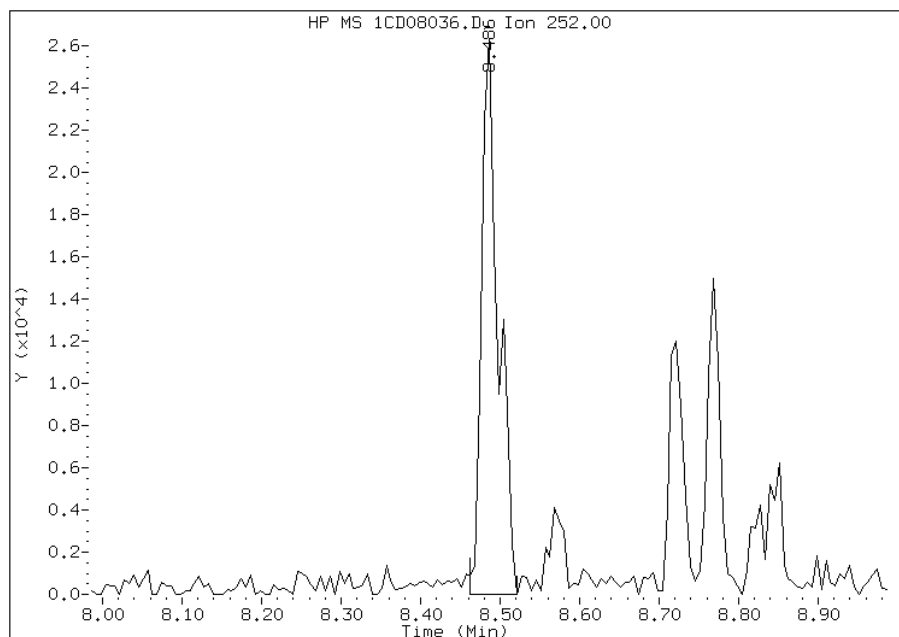
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:24  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08036.D  
Inj. Date and Time: 08-APR-2013 23:13  
Instrument ID: BSMC5973.i  
Client ID: CV0284A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

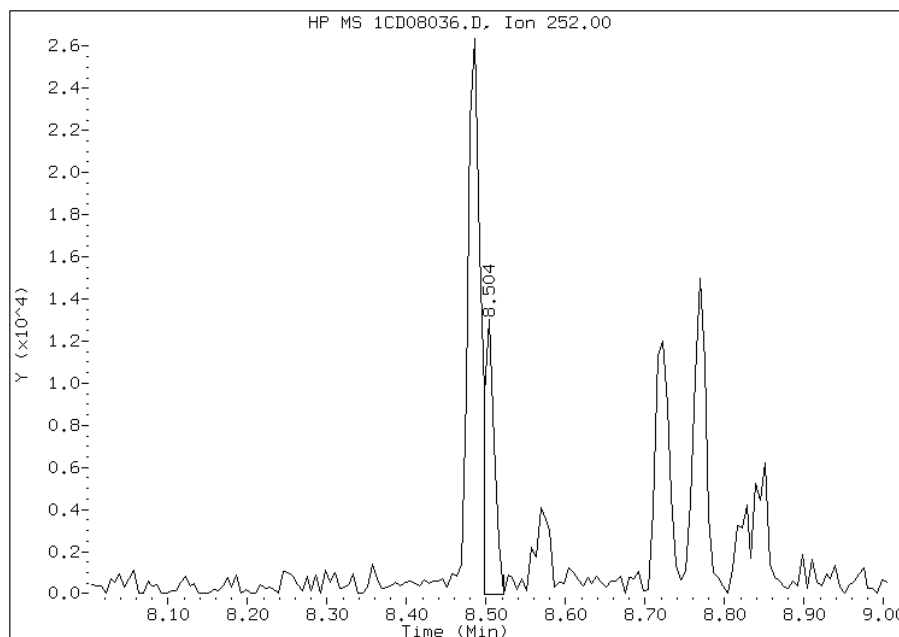
## Processing Integration Results

RT: 8.49  
Response: 38517  
Amount: 2  
Conc: 656



## Manual Integration Results

RT: 8.50  
Response: 11394  
Amount: 1  
Conc: 194



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:23  
Manual Integration Reason: Baseline Event

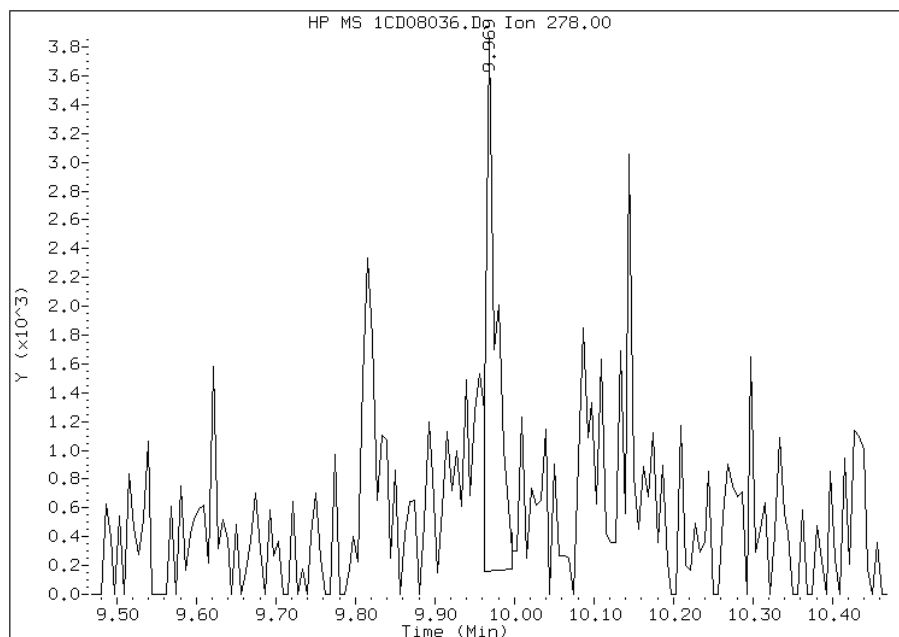


# Manual Integration Report

Data File: 1CD08036.D  
Inj. Date and Time: 08-APR-2013 23:13  
Instrument ID: BSMC5973.i  
Client ID: CV0284A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

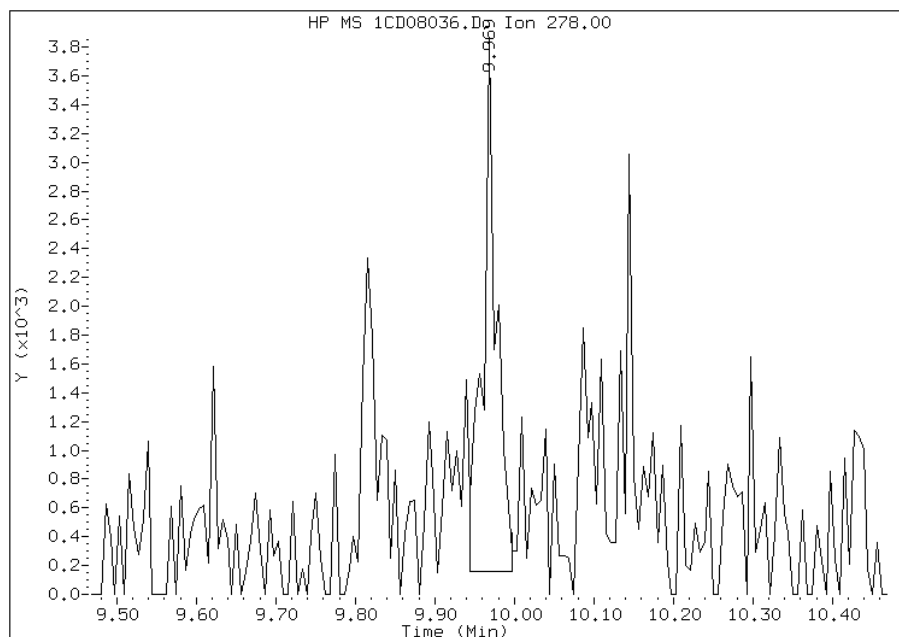
## Processing Integration Results

RT: 9.97  
Response: 3389  
Amount: 0  
Conc: 68



## Manual Integration Results

RT: 9.97  
Response: 4471  
Amount: 0  
Conc: 89



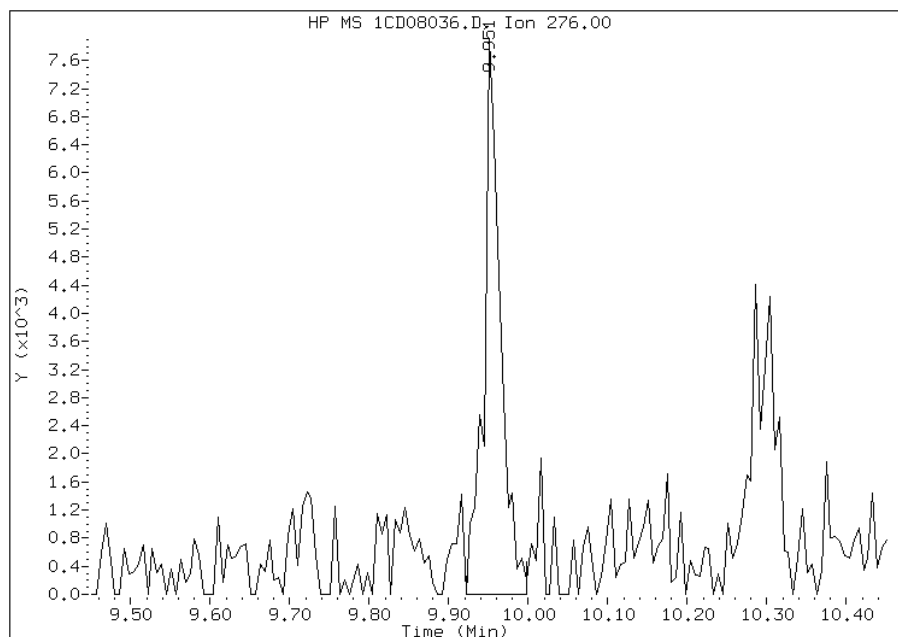
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:24  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD08036.D  
Inj. Date and Time: 08-APR-2013 23:13  
Instrument ID: BSMC5973.i  
Client ID: CV0284A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

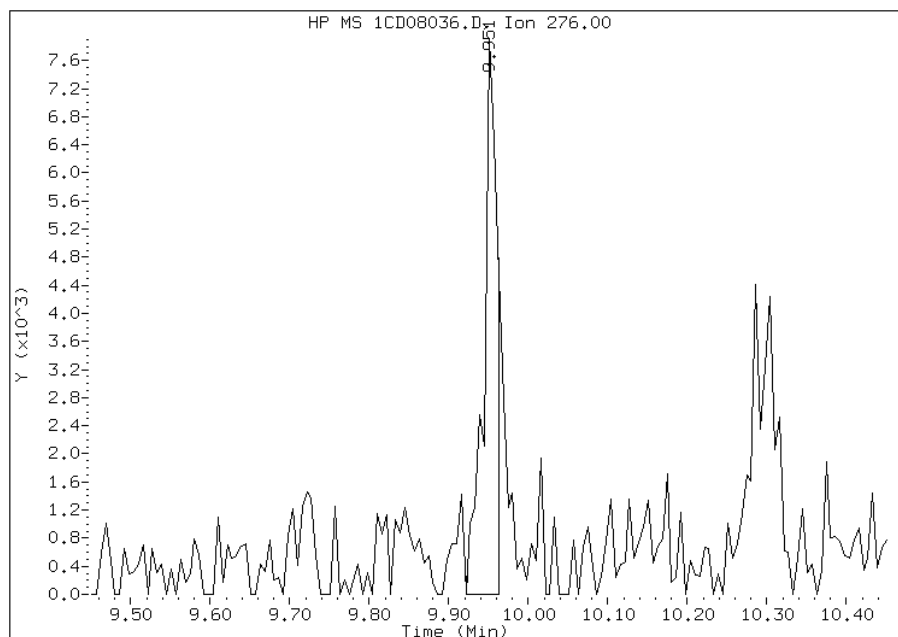
## Processing Integration Results

RT: 9.95  
Response: 11411  
Amount: 1  
Conc: 210



## Manual Integration Results

RT: 9.95  
Response: 9104  
Amount: 0  
Conc: 168



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013A-CS Lab Sample ID: 680-88811-13  
 Matrix: Solid Lab File ID: 1CD09009.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:45  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.14(g) Date Analyzed: 04/09/2013 13:41  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136263 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	68		52	6.6
120-12-7	Anthracene	74		11	5.5
56-55-3	Benzo[a]anthracene	450		10	5.1
50-32-8	Benzo[a]pyrene	390		14	6.8
205-99-2	Benzo[b]fluoranthene	610		16	8.0
191-24-2	Benzo[g,h,i]perylene	270		26	5.8
207-08-9	Benzo[k]fluoranthene	280		10	4.7
218-01-9	Chrysene	460		12	5.9
53-70-3	Dibenz(a,h)anthracene	110		26	5.4
206-44-0	Fluoranthene	730		26	5.2
86-73-7	Fluorene	15	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	270		26	9.3
90-12-0	1-Methylnaphthalene	23	J	52	5.8
91-57-6	2-Methylnaphthalene	29	J	52	9.3
91-20-3	Naphthalene	39	J	52	5.8
85-01-8	Phenanthrene	230		10	5.1
129-00-0	Pyrene	630		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09009.D  
 Lab Smp Id: 680-88811-A-13-A Client Smp ID: CV0013A-CS  
 Inj Date : 09-APR-2013 13:41  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-13-A  
 Misc Info : 680-88811-A-13-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\A-BFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	24.390	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.686	3.686	(1.000)	583062	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	458879	40.0000	
* 10 Phenanthrene-d10	188		5.716	5.716	(1.000)	876147	40.0000	
\$ 14 o-Terphenyl	230		5.969	5.968	(1.044)	58533	4.81836	420.9161
* 18 Chrysene-d12	240		7.657	7.657	(1.000)	983321	40.0000	
* 23 Perylene-d12	264		8.821	8.827	(1.000)	943965	40.0000	
2 Naphthalene	128		3.698	3.698	(1.003)	6612	0.44151	38.5690(Q)
3 2-Methylnaphthalene	142		4.127	4.127	(1.120)	3402	0.33372	29.1523(Q)
4 1-Methylnaphthalene	142		4.186	4.186	(1.136)	2368	0.25815	22.5513(Q)
5 Acenaphthylene	152		4.686	4.686	(0.982)	14861	0.78249	68.3559
9 Fluorene	166		5.110	5.110	(1.070)	2660	0.16963	14.8183
11 Phenanthrene	178		5.733	5.733	(1.003)	67516	2.64587	231.1347
12 Anthracene	178		5.769	5.768	(1.009)	21872	0.84555	73.8643
13 Carbazole	167		5.874	5.874	(1.028)	6851	0.30914	27.0052

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.568	6.568	(1.149)	236424	8.38953	732.8817
16 Pyrene	202	6.733	6.733	(0.879)	196868	7.22750	631.3704
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	141620	5.10621	446.0615
19 Chrysene	228	7.674	7.674	(1.002)	148712	5.30729	463.6269
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	186750	6.99787	611.3109(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.963)	82748	3.20594	280.0603(MH)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	112665	4.48420	391.7246
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	73381	3.07498	268.6201(M)
25 Dibenzo(a,h)anthracene	278	9.951	9.974	(1.128)	28951	1.31329	114.7248
26 Benzo(g,h,i)perylene	276	10.292	10.298	(1.167)	76334	3.13410	273.7847

QC Flag Legend

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

Data File: 1CD09009.D

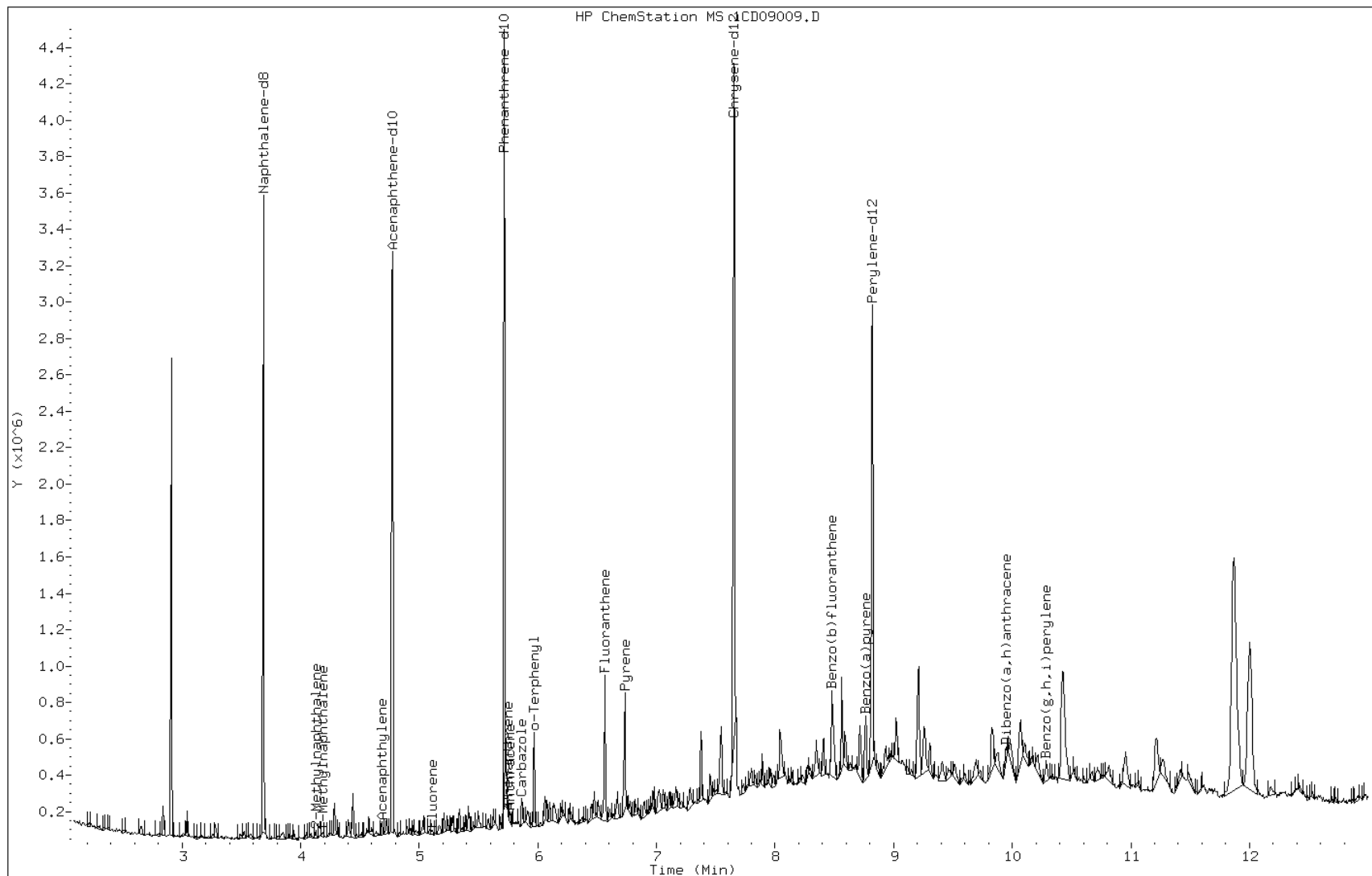
Date: 09-APR-2013 13:41

Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

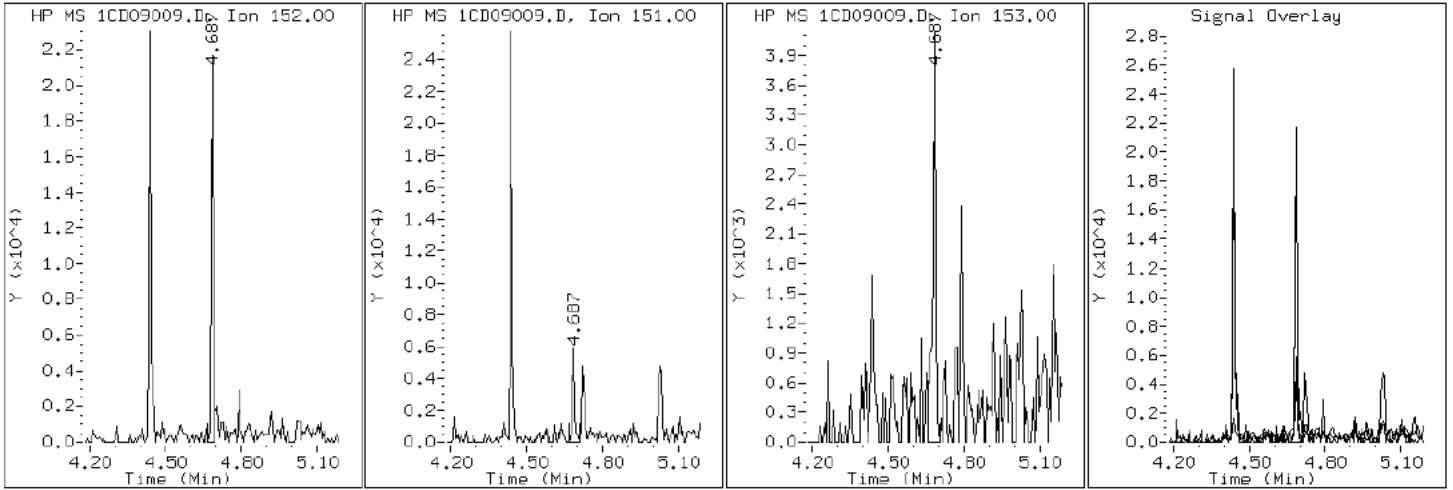
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

5 Acenaphthylene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

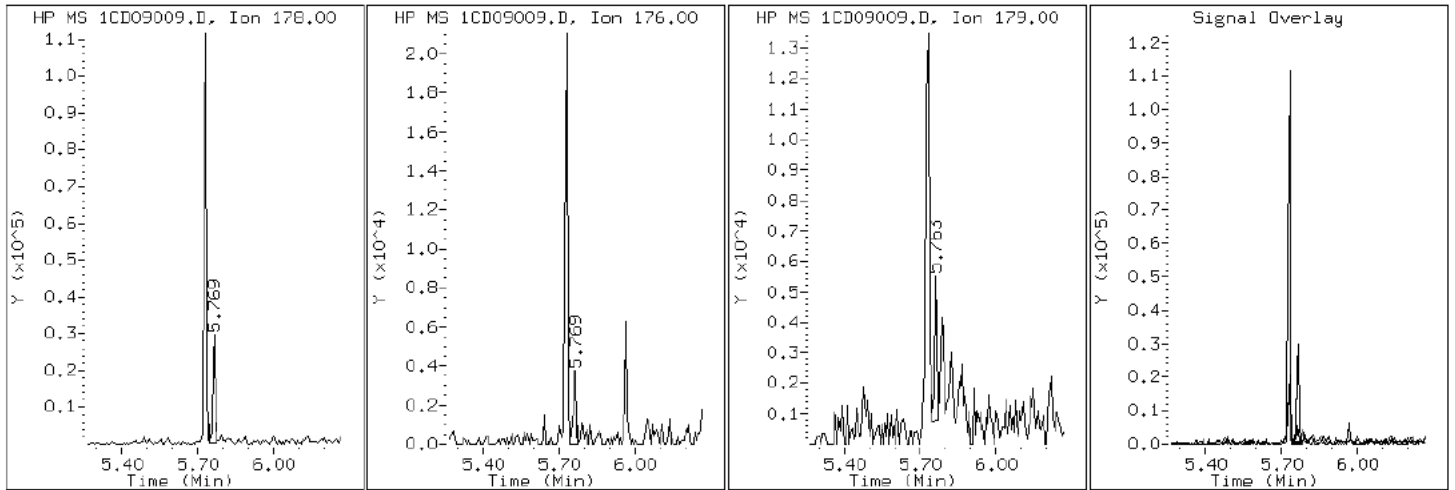
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

12 Anthracene





Data File: 1CD09009.D

Date: 09-APR-2013 13:41

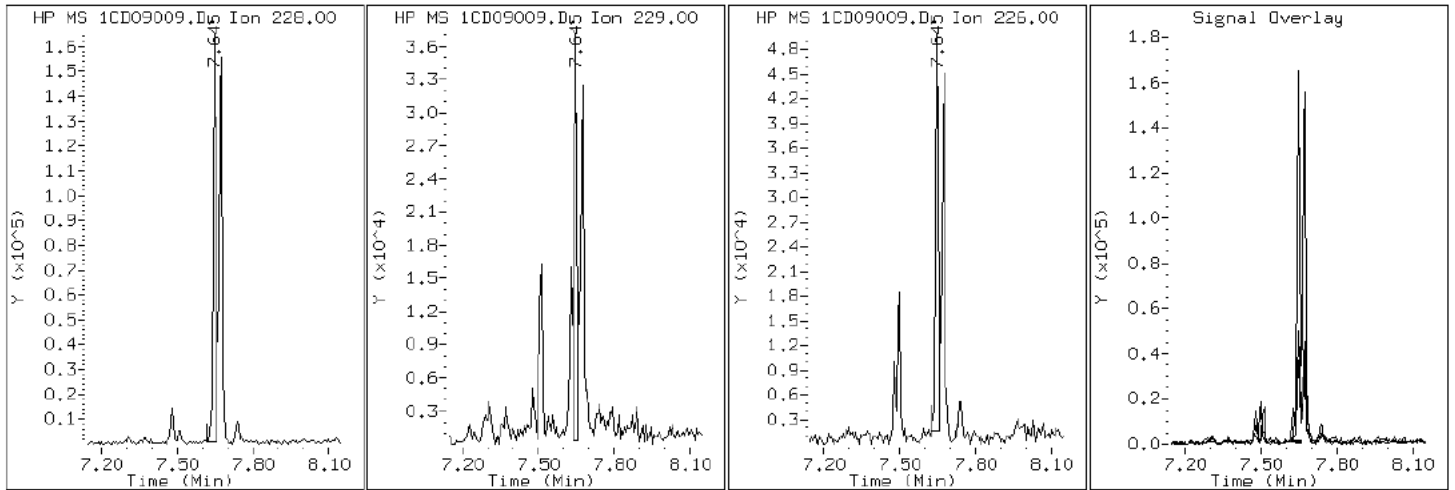
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

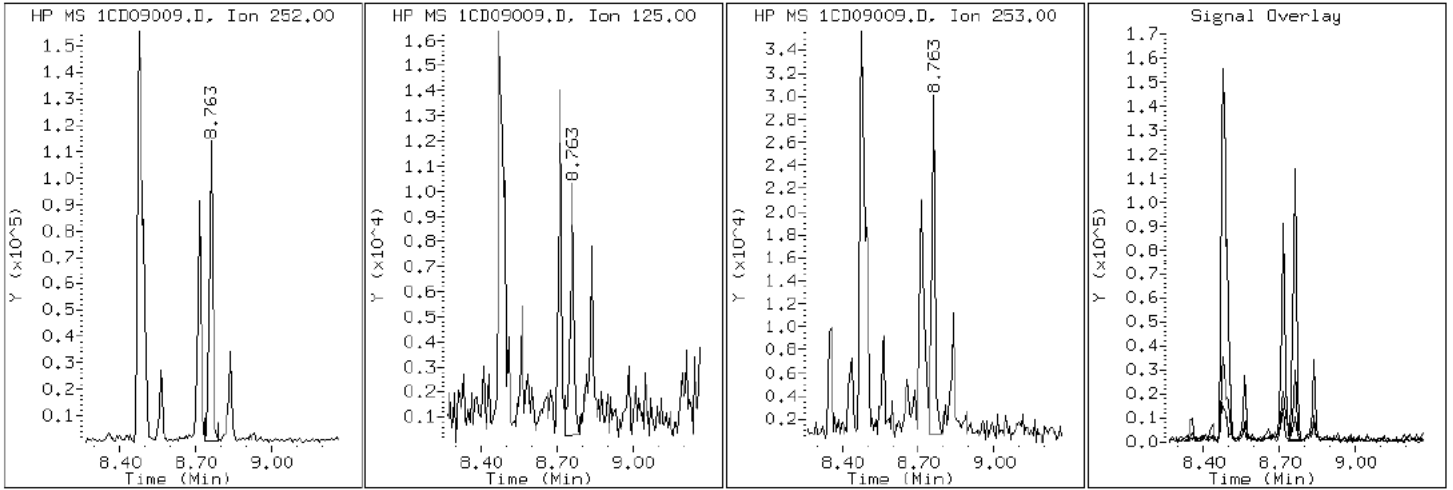
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

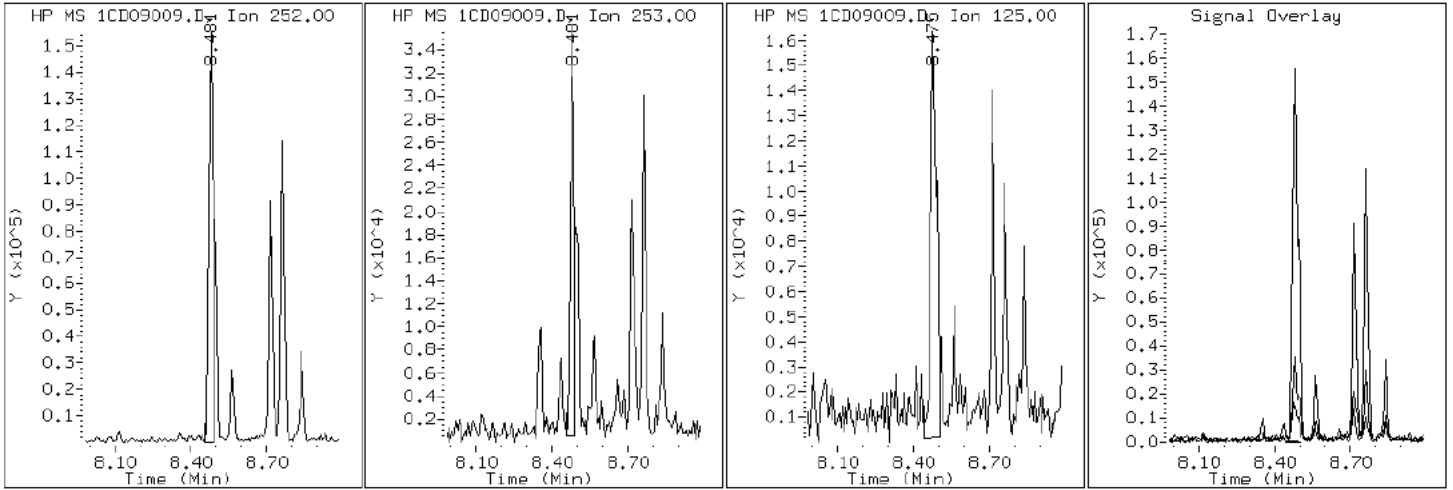
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

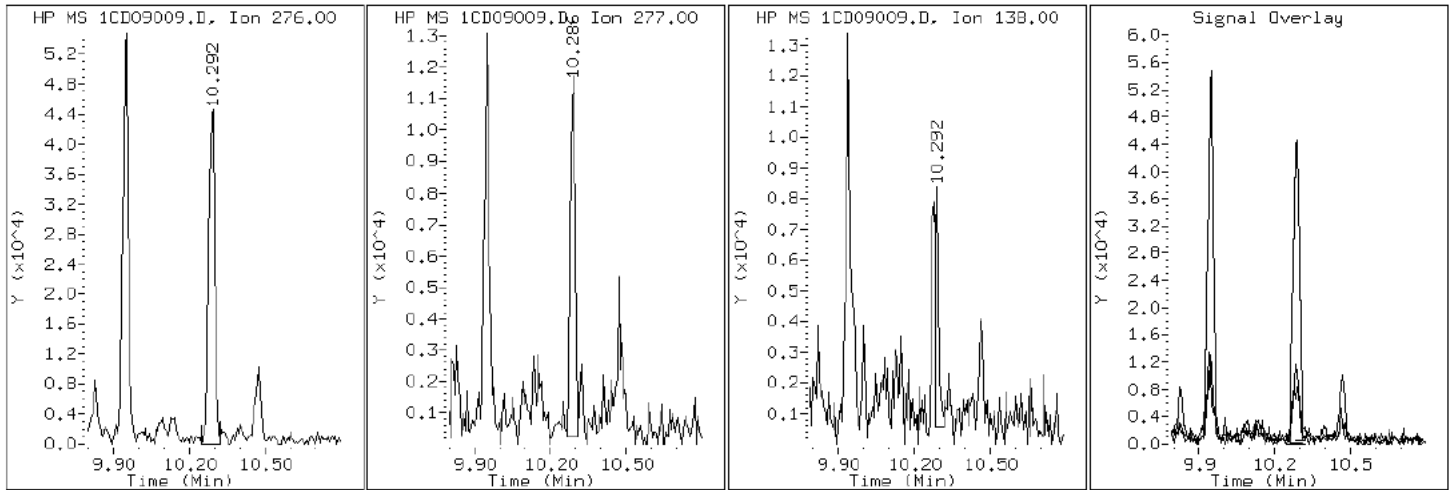
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

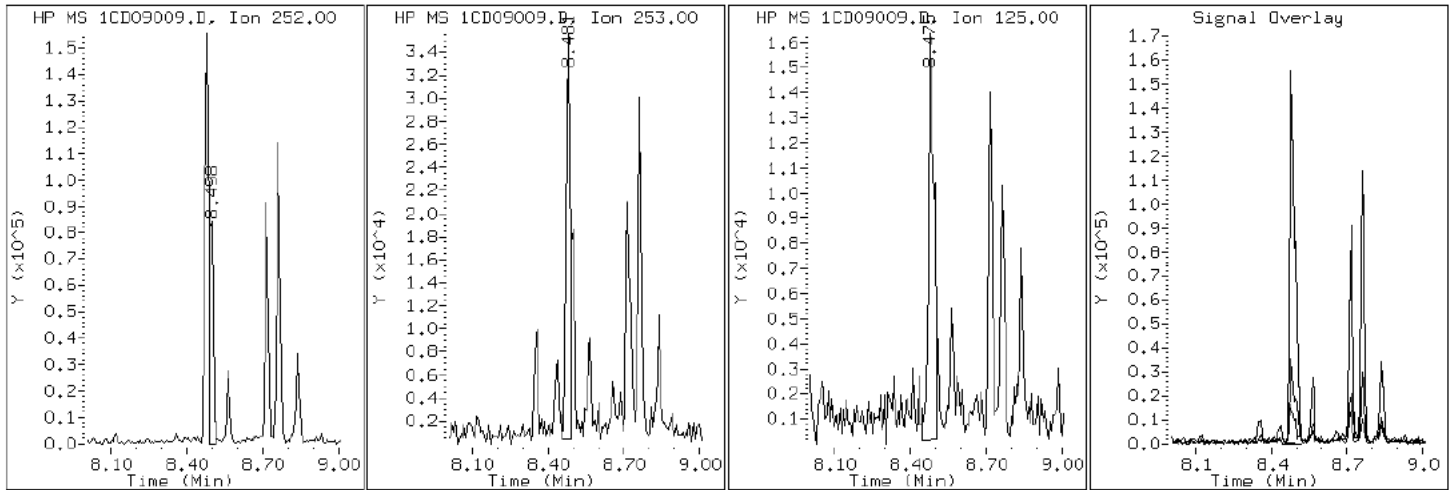
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

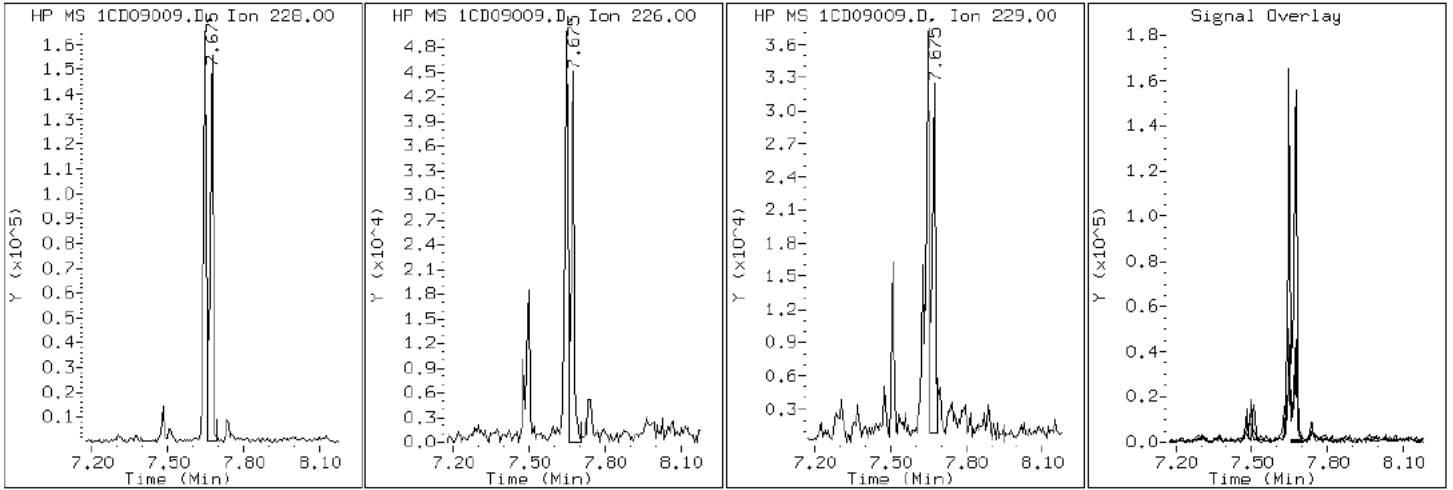
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

19 Chrysene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

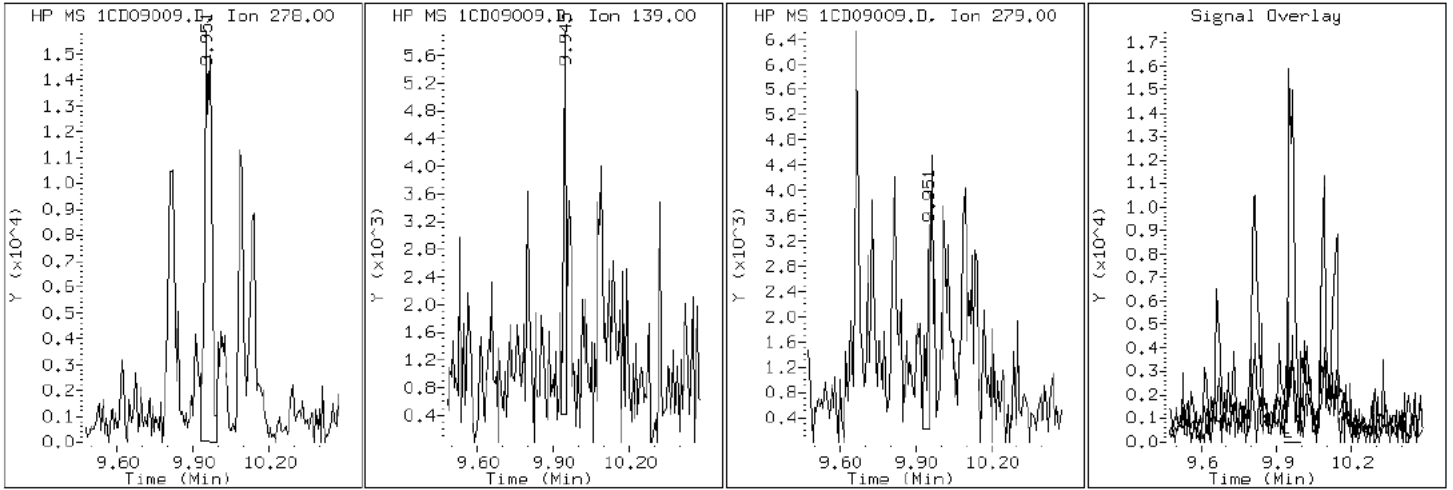
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

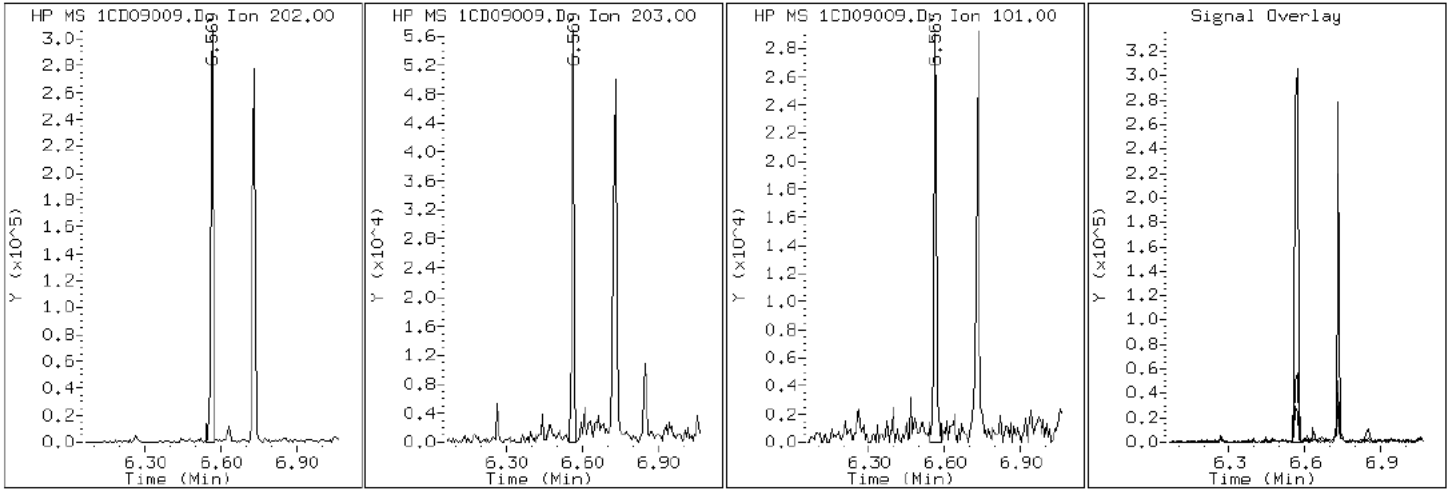
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

15 Fluoranthene





Data File: 1CD09009.D

Date: 09-APR-2013 13:41

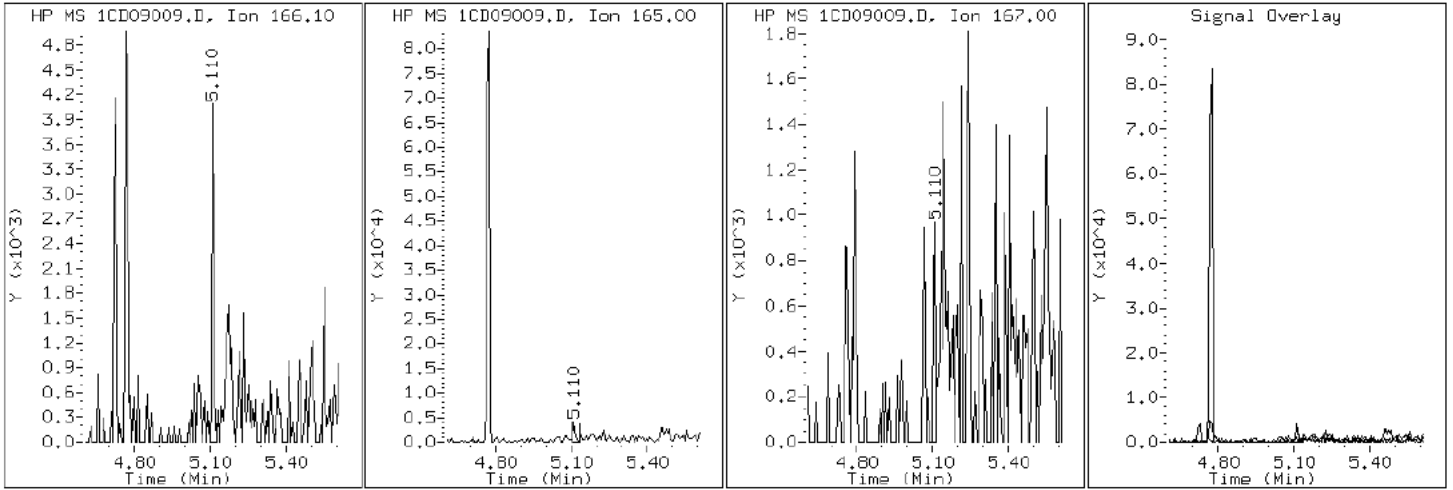
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

9 Fluorene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

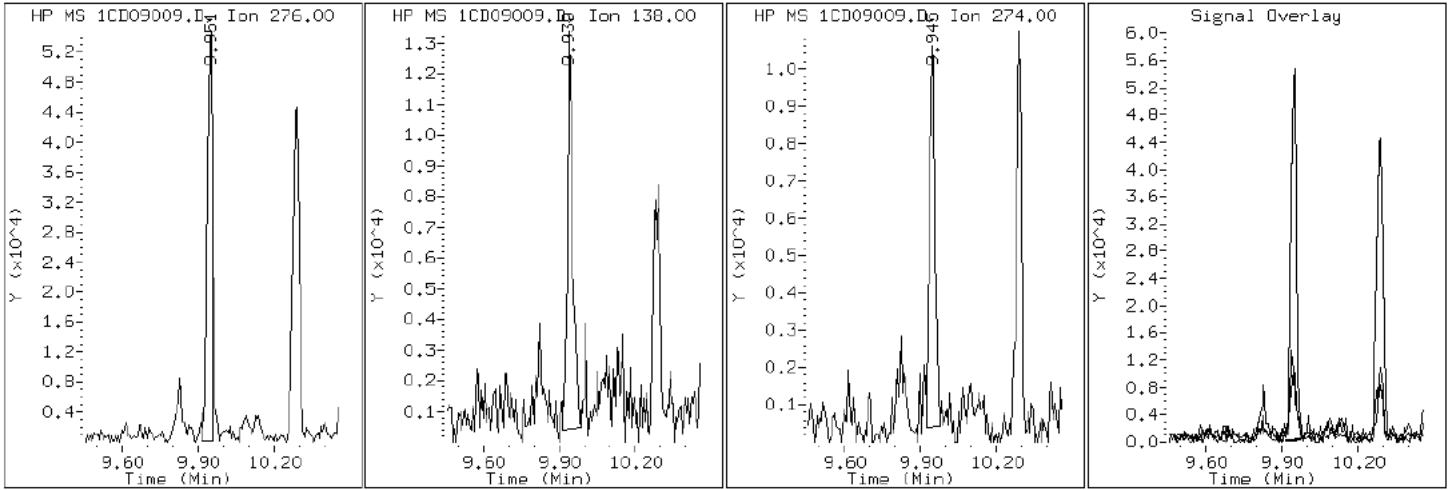
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

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



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

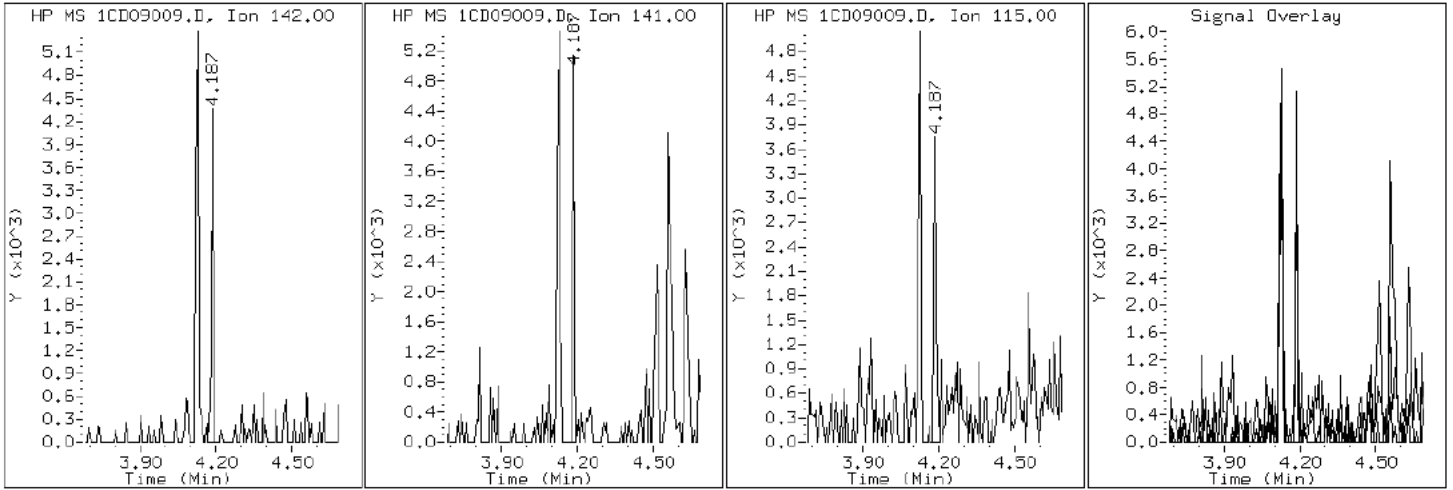
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

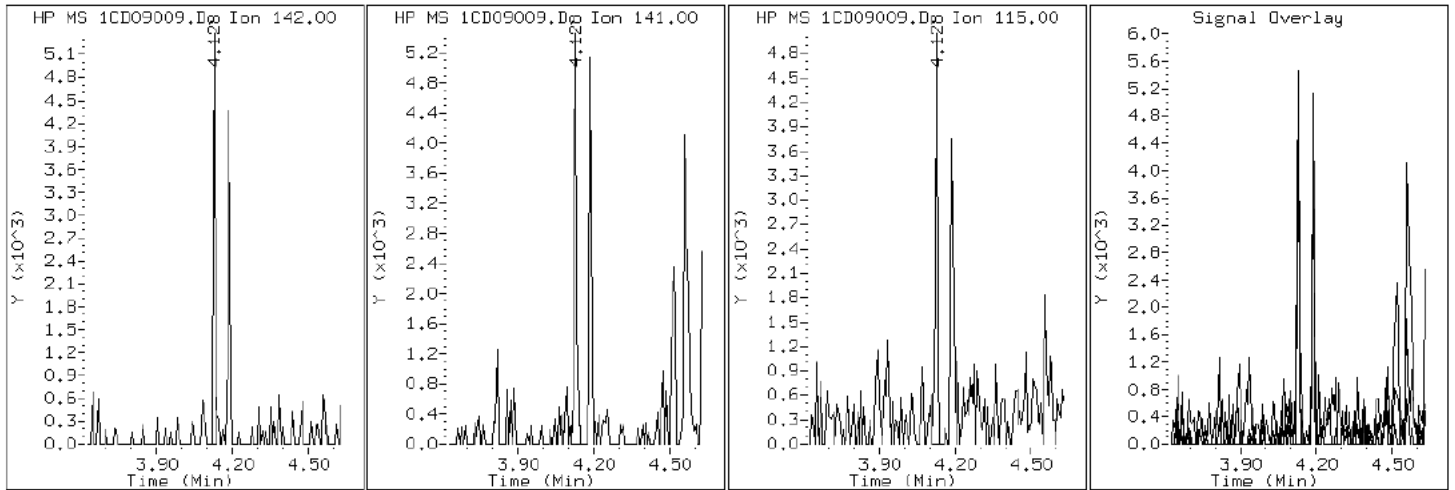
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

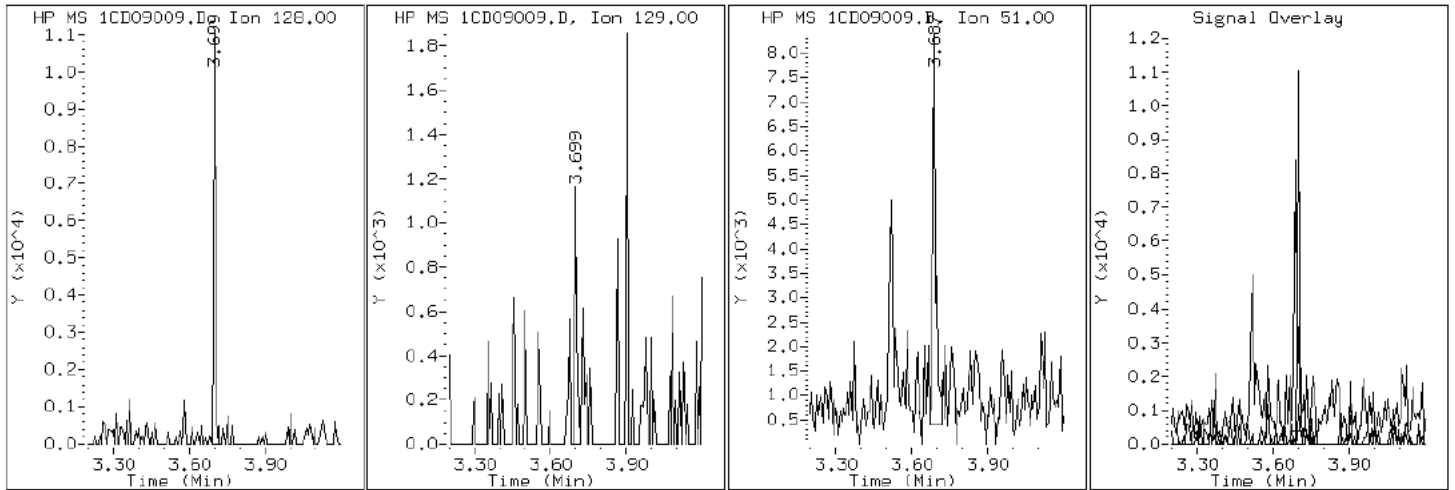
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

2 Naphthalene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

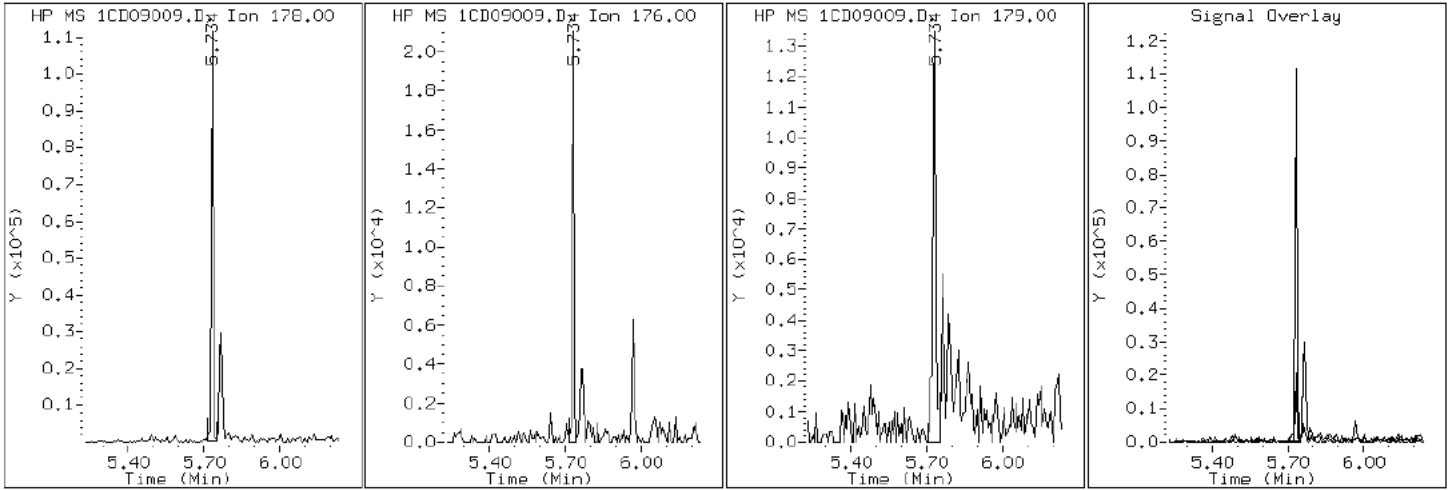
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

11 Phenanthrene



Data File: 1CD09009.D

Date: 09-APR-2013 13:41

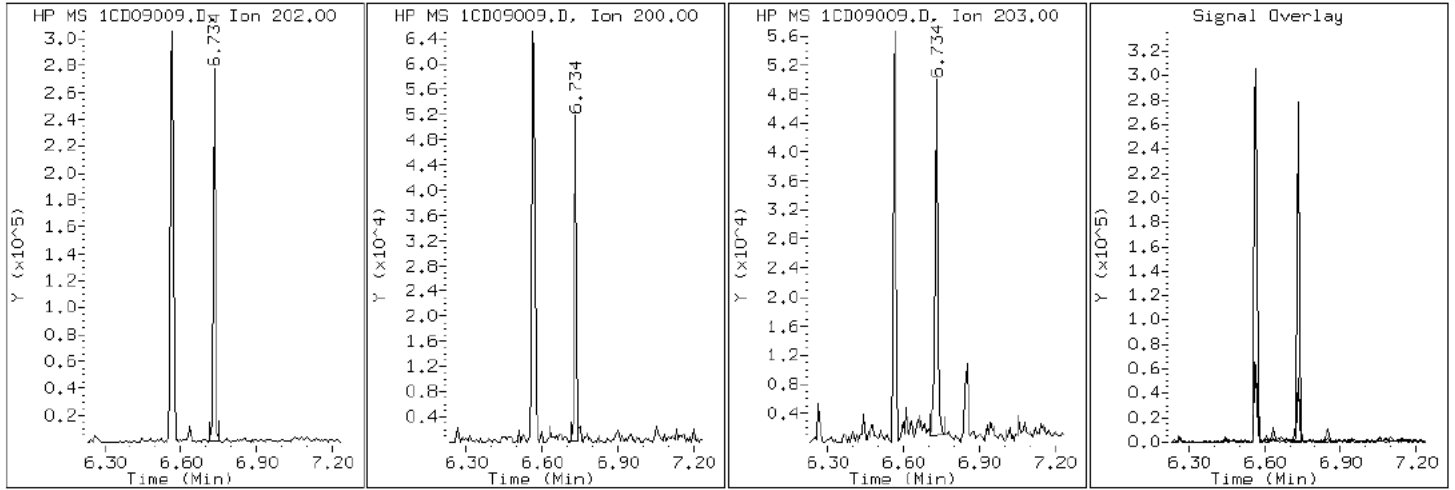
Client ID: CV0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-13-A

Operator: SCC

16 Pyrene

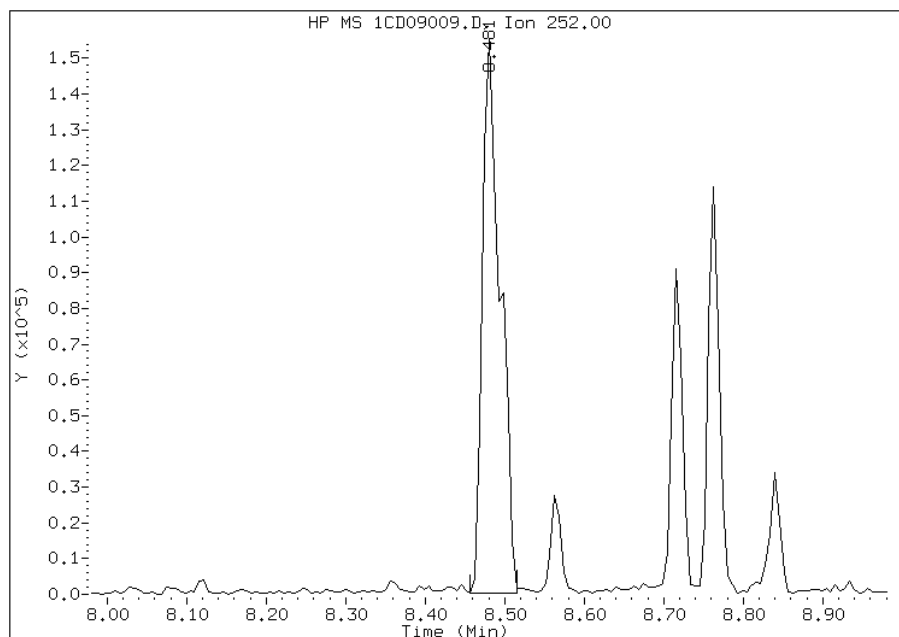


# Manual Integration Report

Data File: 1CD09009.D  
Inj. Date and Time: 09-APR-2013 13:41  
Instrument ID: BSMC5973.i  
Client ID: CV0013A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

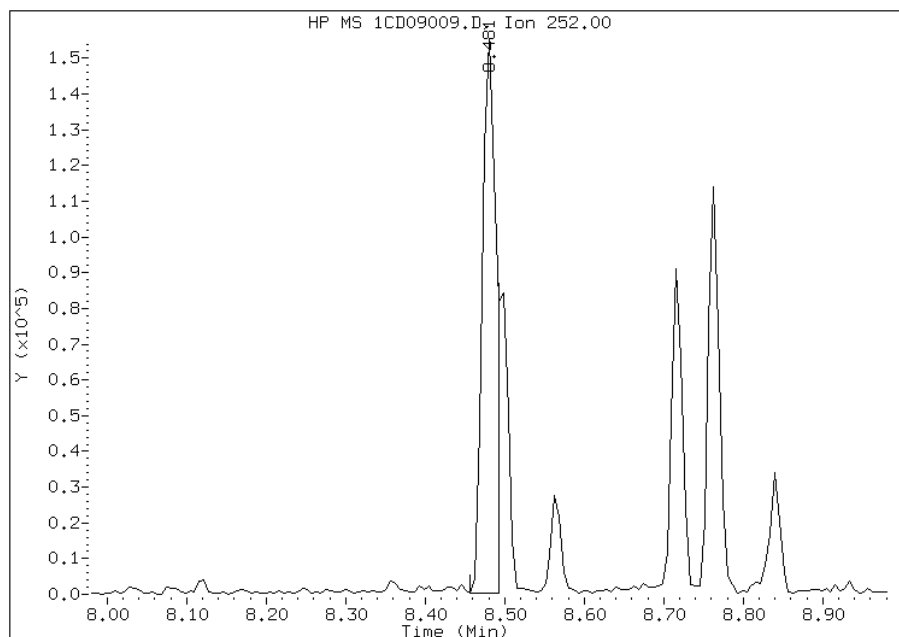
## Processing Integration Results

RT: 8.48  
Response: 239965  
Amount: 9  
Conc: 786



## Manual Integration Results

RT: 8.48  
Response: 186750  
Amount: 7  
Conc: 611



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:45  
Manual Integration Reason: Split Peak

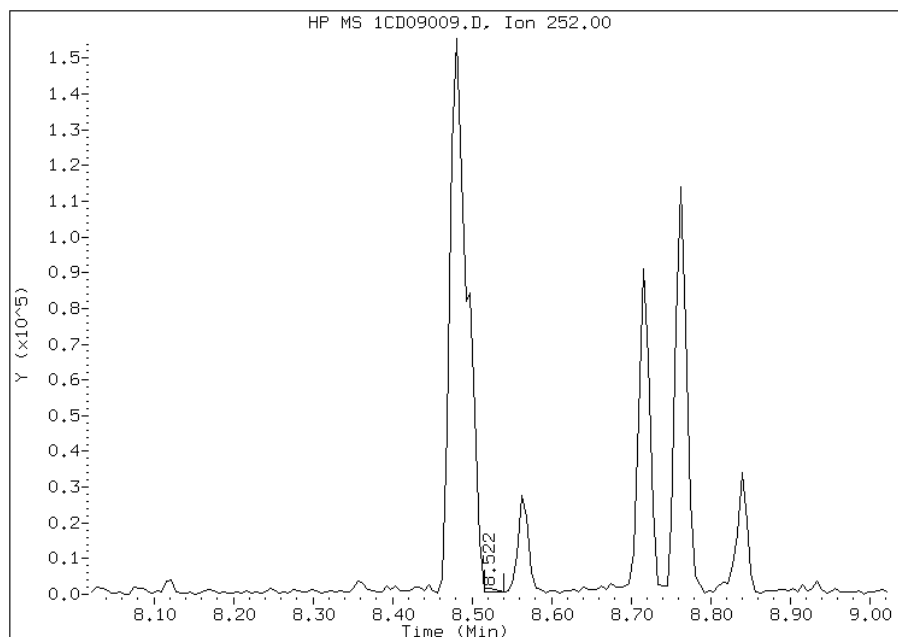


# Manual Integration Report

Data File: 1CD09009.D  
Inj. Date and Time: 09-APR-2013 13:41  
Instrument ID: BSMC5973.i  
Client ID: CV0013A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

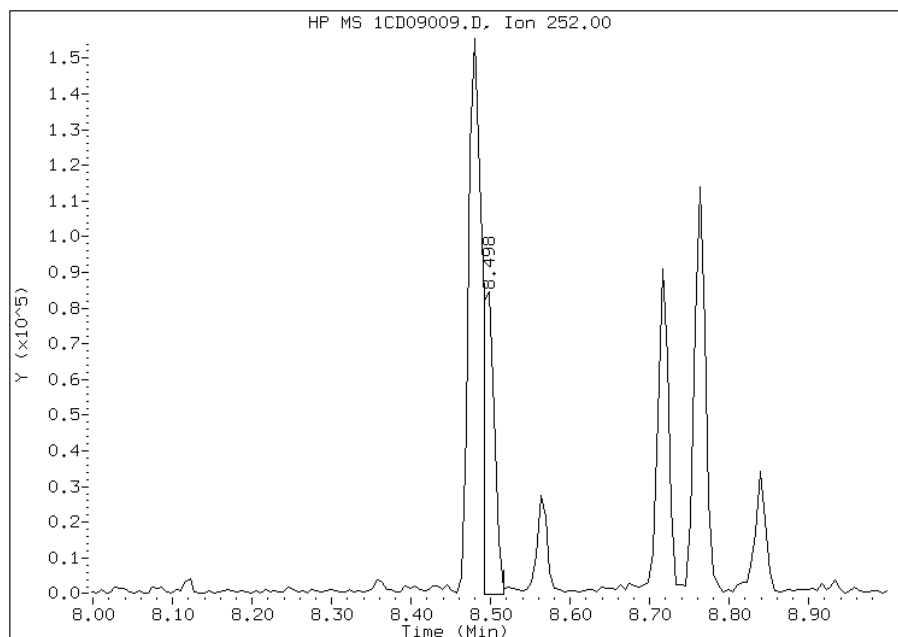
## Processing Integration Results

RT: 8.52  
Response: 1432  
Amount: 0  
Conc: 5



## Manual Integration Results

RT: 8.50  
Response: 82748  
Amount: 3  
Conc: 280



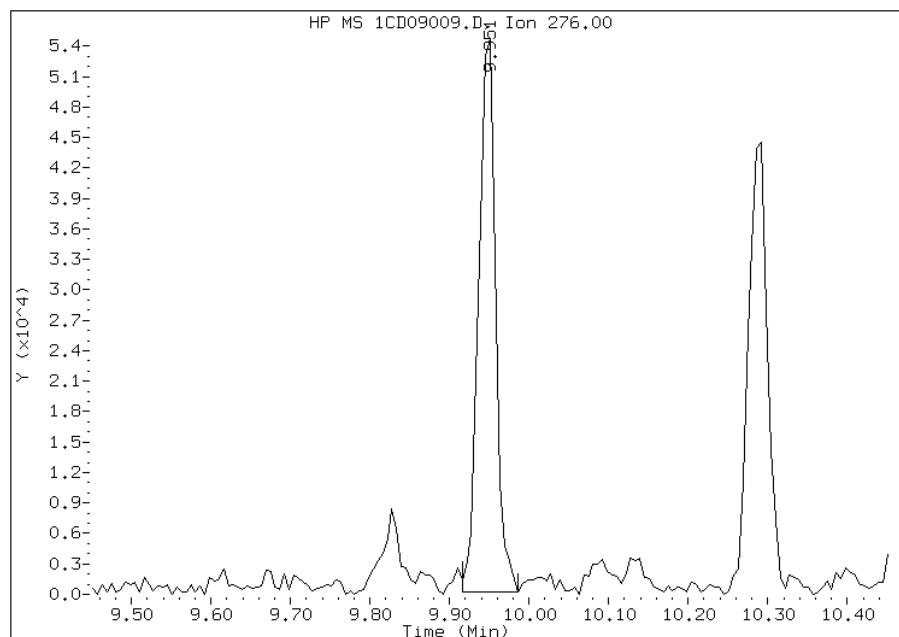
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:45  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD09009.D  
Inj. Date and Time: 09-APR-2013 13:41  
Instrument ID: BSMC5973.i  
Client ID: CV0013A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

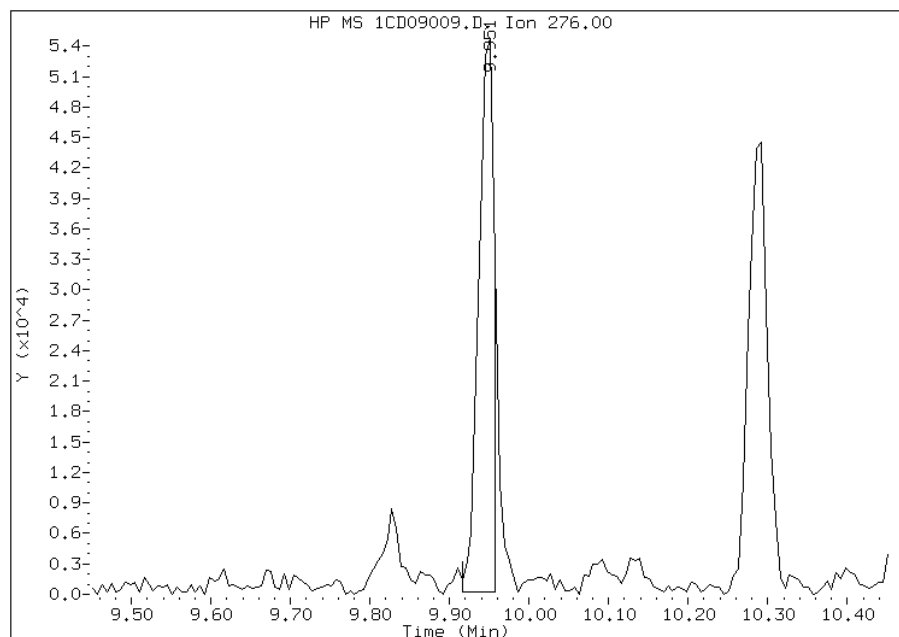
## Processing Integration Results

RT: 9.95  
Response: 80431  
Amount: 3  
Conc: 294



## Manual Integration Results

RT: 9.95  
Response: 73381  
Amount: 3  
Conc: 269



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:46  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013B-CS Lab Sample ID: 680-88811-14  
 Matrix: Solid Lab File ID: 1CD09010.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:55  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 14.94 (g) Date Analyzed: 04/09/2013 14:00  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 28.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136263 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	40	J	140	28
208-96-8	Acenaphthylene	17	J	56	7.0
120-12-7	Anthracene	78		12	5.9
56-55-3	Benzo[a]anthracene	260		11	5.4
50-32-8	Benzo[a]pyrene	210		14	7.2
205-99-2	Benzo[b]fluoranthene	350		17	8.5
191-24-2	Benzo[g,h,i]perylene	150		28	6.1
207-08-9	Benzo[k]fluoranthene	120		11	5.0
218-01-9	Chrysene	250		13	6.3
53-70-3	Dibenz(a,h)anthracene	57		28	5.7
206-44-0	Fluoranthene	550		28	5.6
86-73-7	Fluorene	33		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	140		28	9.9
90-12-0	1-Methylnaphthalene	31	J	56	6.1
91-57-6	2-Methylnaphthalene	42	J	56	9.9
91-20-3	Naphthalene	57		56	6.1
85-01-8	Phenanthrene	370		11	5.4
129-00-0	Pyrene	450		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09010.D  
 Lab Smp Id: 680-88811-A-14-A Client Smp ID: CV0013B-CS  
 Inj Date : 09-APR-2013 14:00  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-14-A  
 Misc Info : 680-88811-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 10  
 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	14.940	Weight Extracted
M	27.955	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.686	3.686	(1.000)	486485	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	359616	40.0000	
* 10 Phenanthrene-d10	188		5.716	5.716	(1.000)	707125	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.968	(1.044)	51182	5.15980	479.3754
* 18 Chrysene-d12	240		7.651	7.657	(1.000)	783890	40.0000	
* 23 Perylene-d12	264		8.821	8.827	(1.000)	728066	40.0000	
2 Naphthalene	128		3.698	3.698	(1.003)	7630	0.61063	56.7311
3 2-Methylnaphthalene	142		4.127	4.127	(1.120)	3860	0.45381	42.1617
4 1-Methylnaphthalene	142		4.186	4.186	(1.136)	2527	0.33018	30.6752
5 Acenaphthylene	152		4.686	4.686	(0.982)	2737	0.18389	17.0847
7 Acenaphthene	154		4.792	4.792	(1.004)	3952	0.42871	39.8292
9 Fluorene	166		5.110	5.110	(1.070)	4337	0.35291	32.7877
11 Phenanthrene	178		5.733	5.733	(1.003)	81877	3.97562	369.3583
12 Anthracene	178		5.768	5.768	(1.009)	17490	0.83776	77.8329

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.874	(1.028)	13012	0.72748	67.5874
15 Fluoranthene	202	6.563	6.568	(1.148)	134153	5.89831	547.9868
16 Pyrene	202	6.733	6.733	(0.880)	105553	4.86098	451.6130
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	61017	2.82205	262.1844
19 Chrysene	228	7.674	7.674	(1.003)	59459	2.66185	247.3016
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	77171	3.74925	348.3272
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	24706	1.24104	115.2997
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	43628	2.25137	209.1649
24 Indeno(1,2,3-cd)pyrene	276	9.945	9.956	(1.127)	27444	1.49105	138.5269(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.974	(1.129)	10401	0.61173	56.8330(M)
26 Benzo(g,h,i)perylene	276	10.286	10.298	(1.166)	30355	1.61588	150.1250

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD09010.D

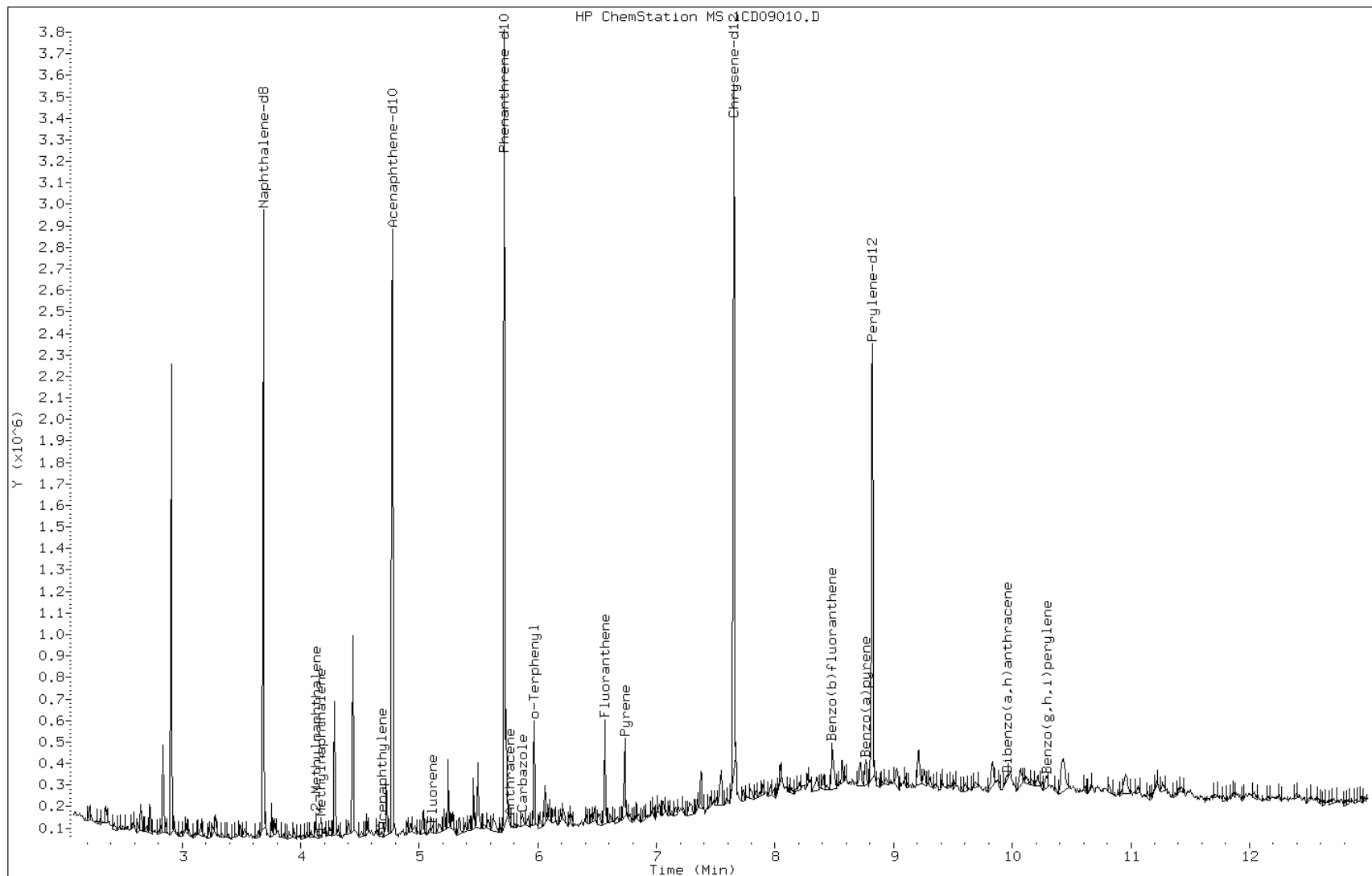
Date: 09-APR-2013 14:00

Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

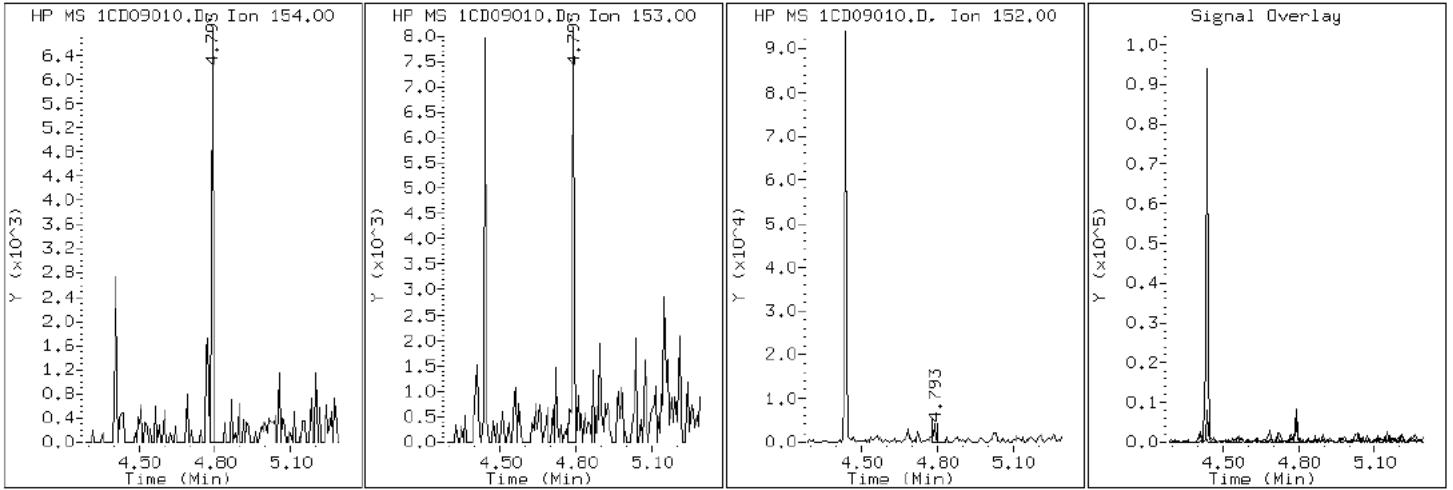
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

7 Acenaphthene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

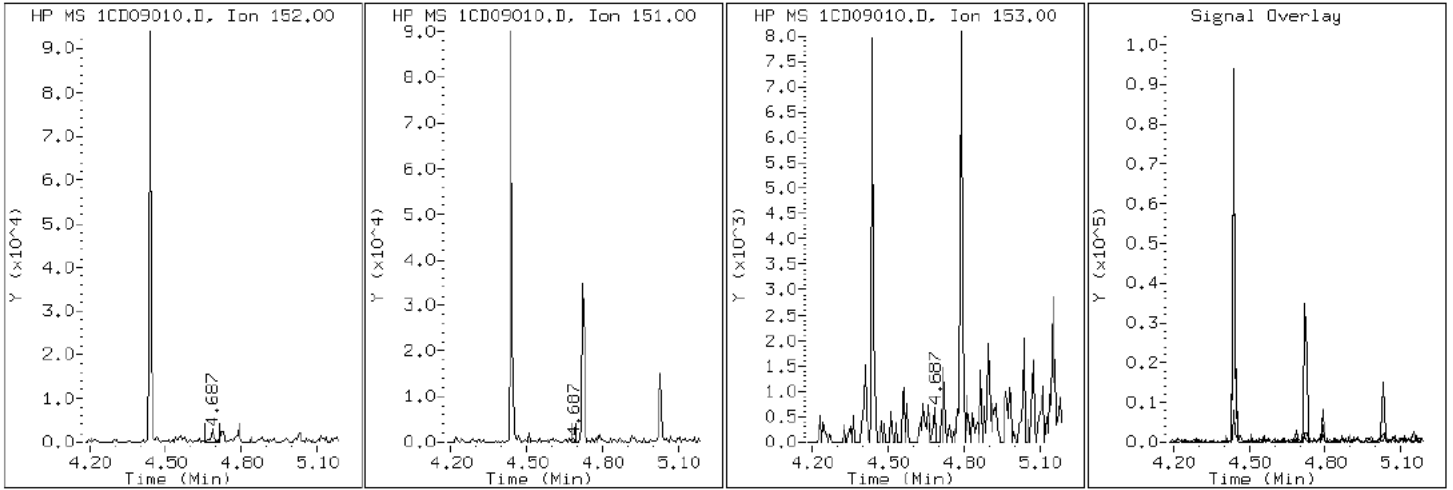
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

5 Acenaphthylene





Data File: 1CD09010.D

Date: 09-APR-2013 14:00

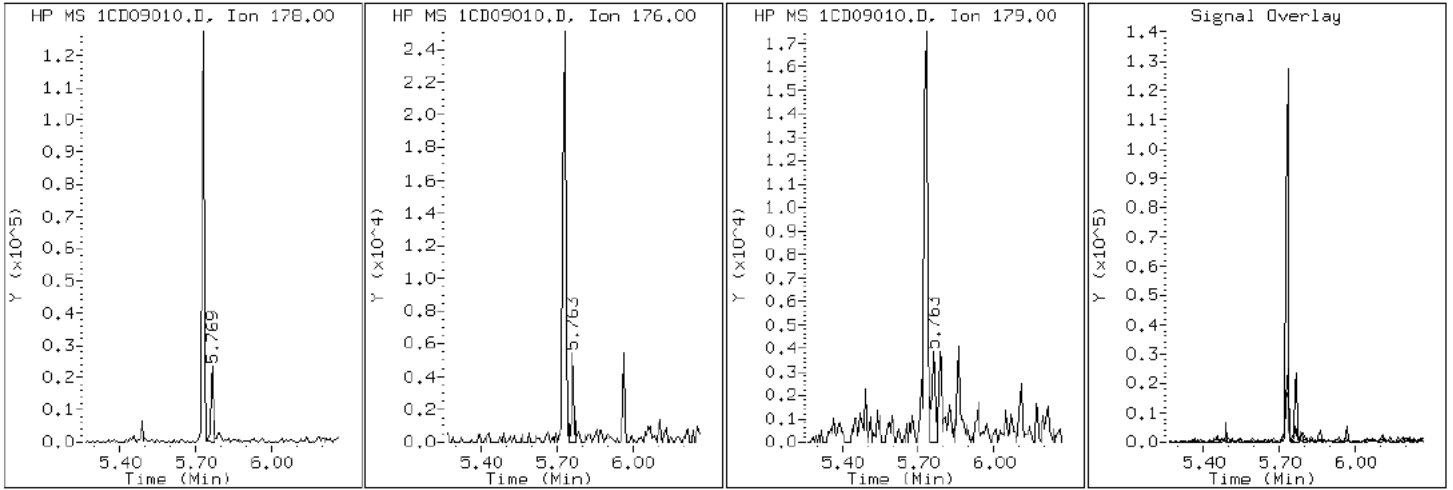
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

12 Anthracene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

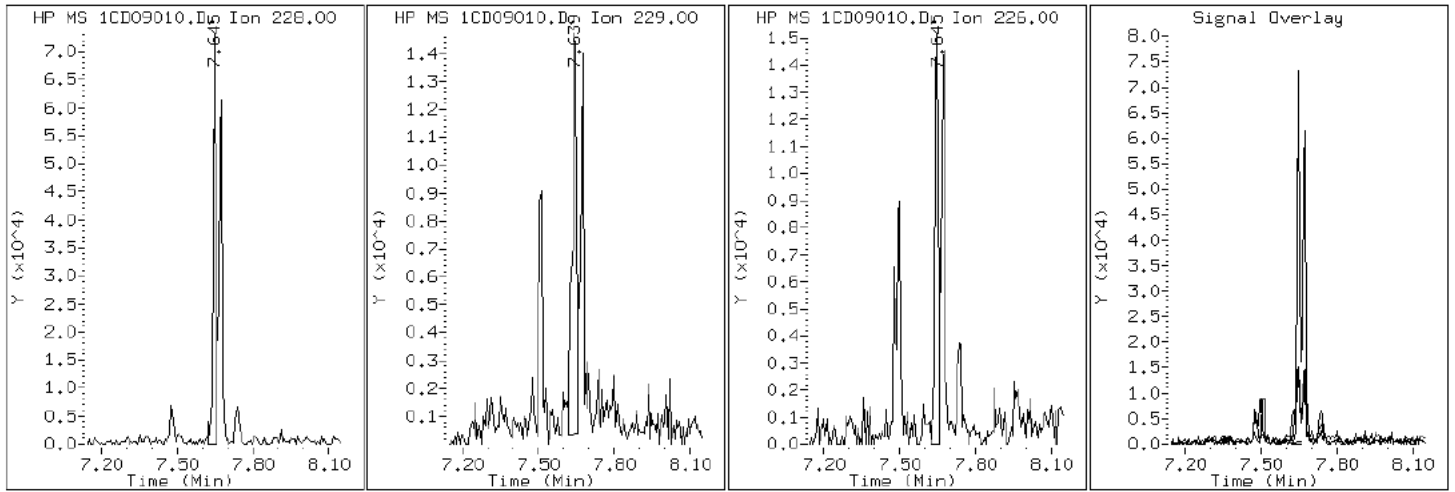
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

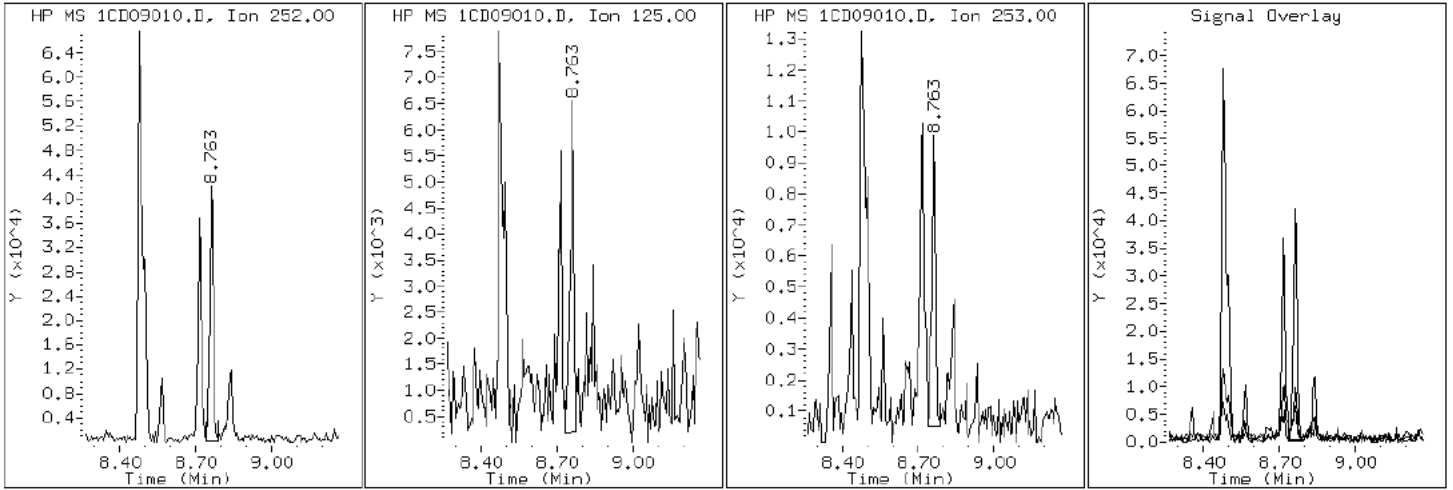
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

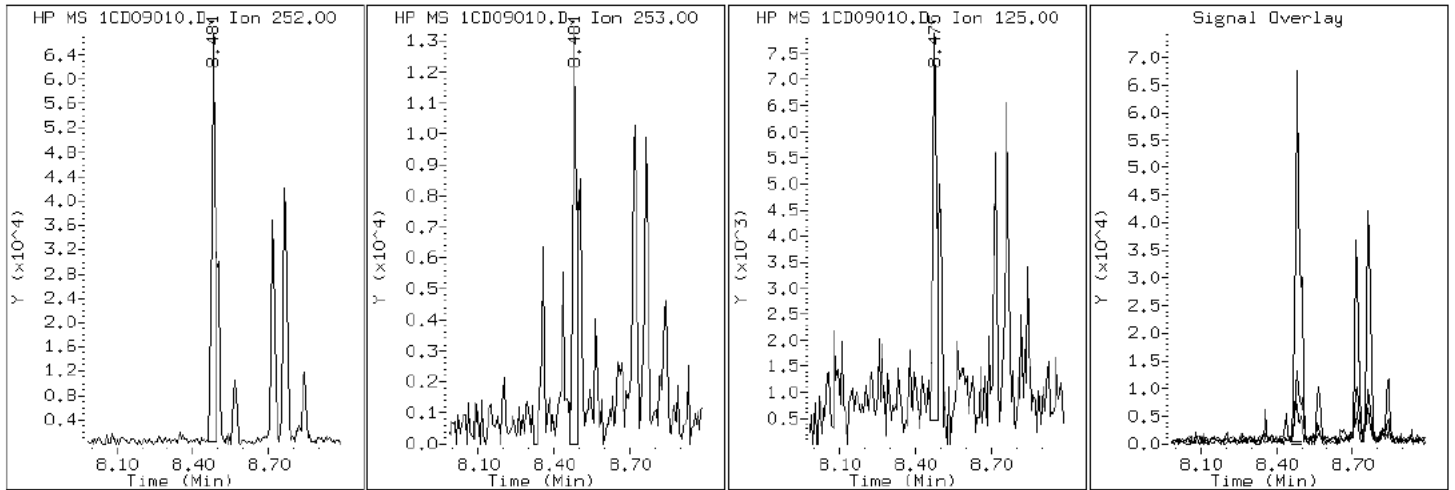
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

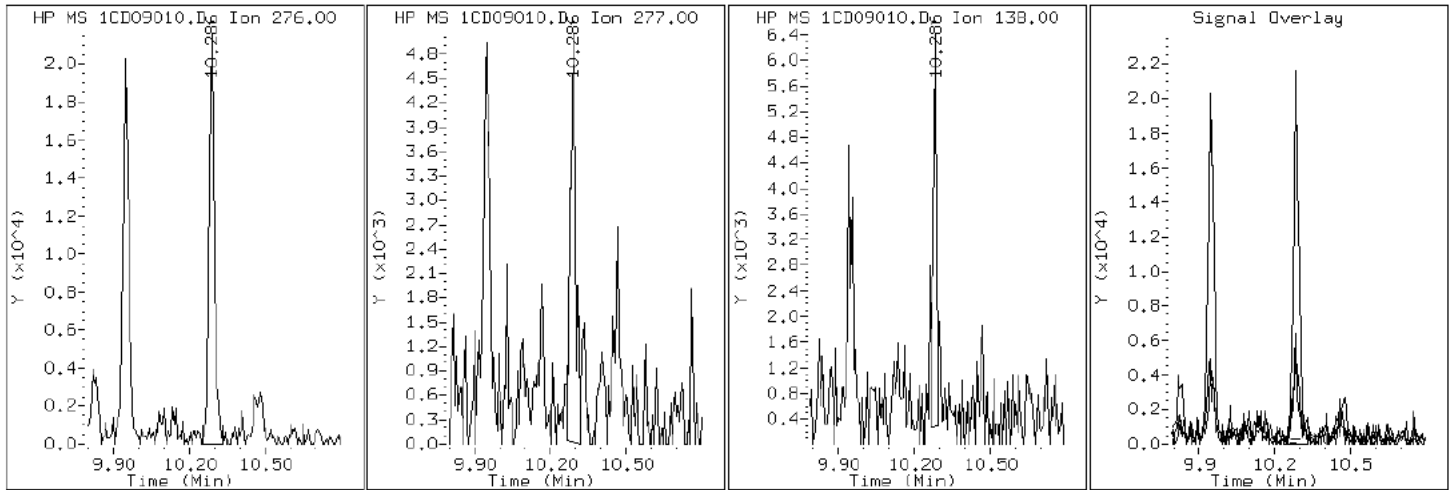
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

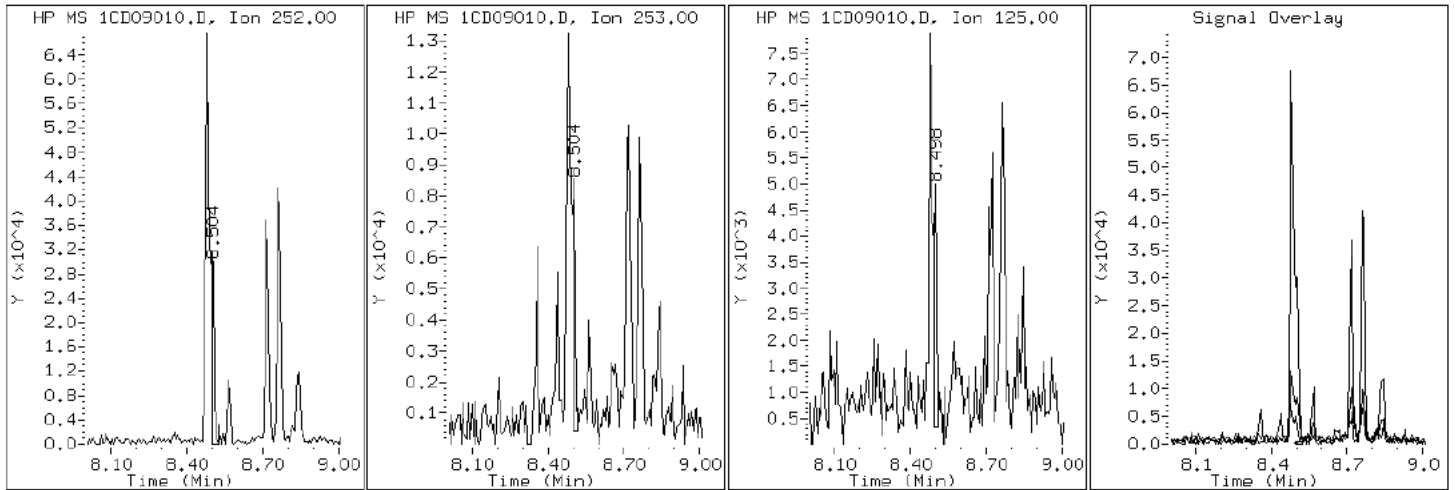
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

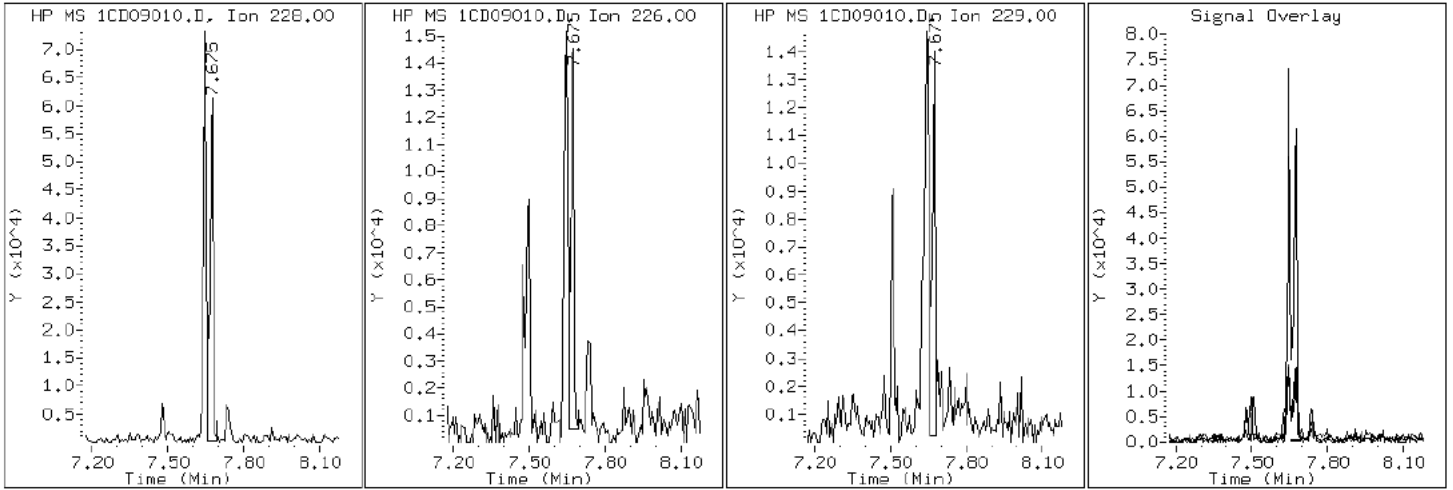
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

19 Chrysene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

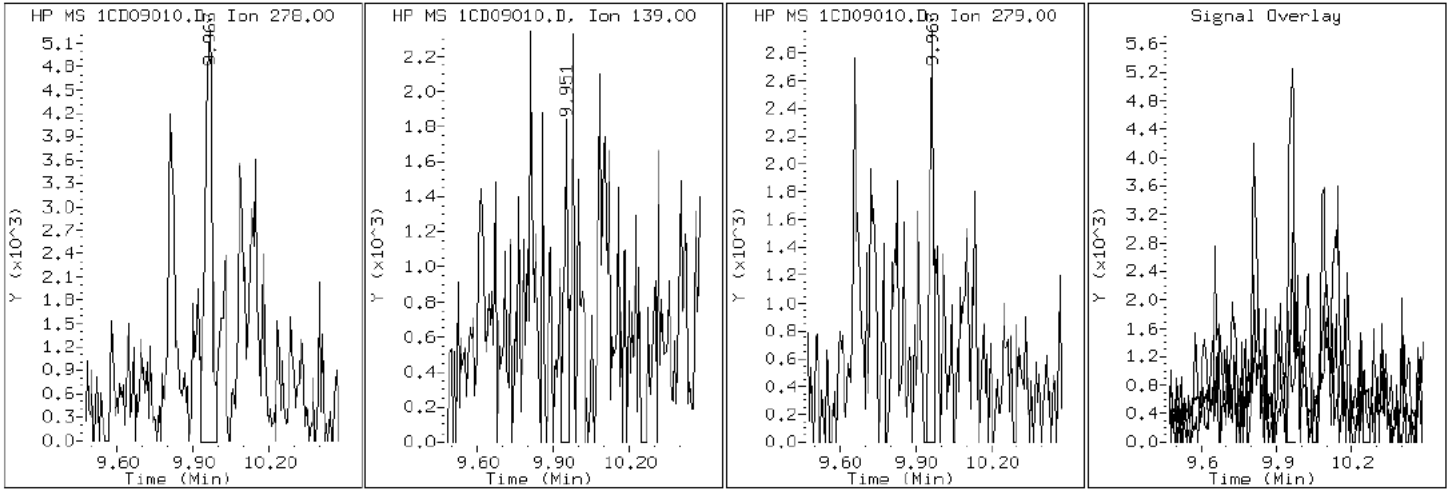
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

25 Dibenzo (a,h) anthracene





Data File: 1CD09010.D

Date: 09-APR-2013 14:00

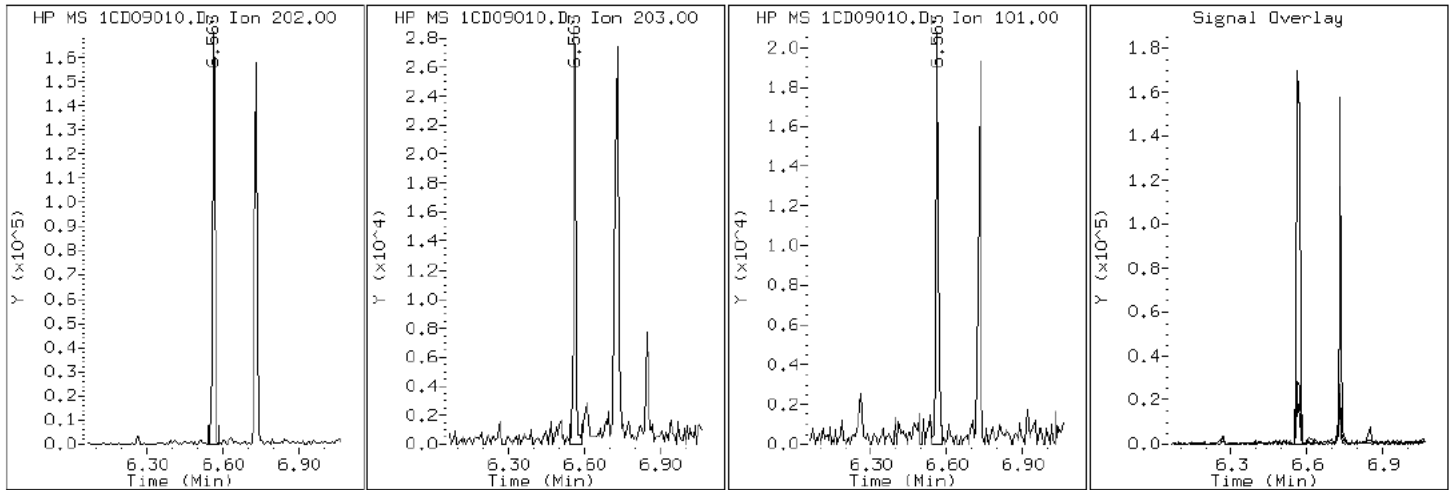
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

15 Fluoranthene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

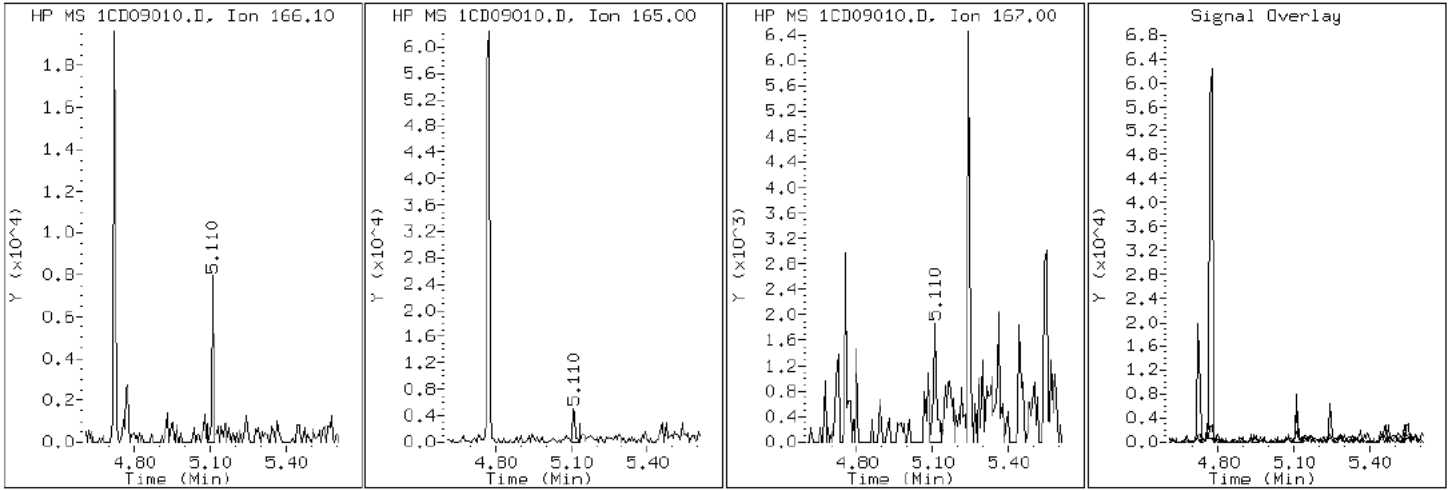
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

9 Fluorene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

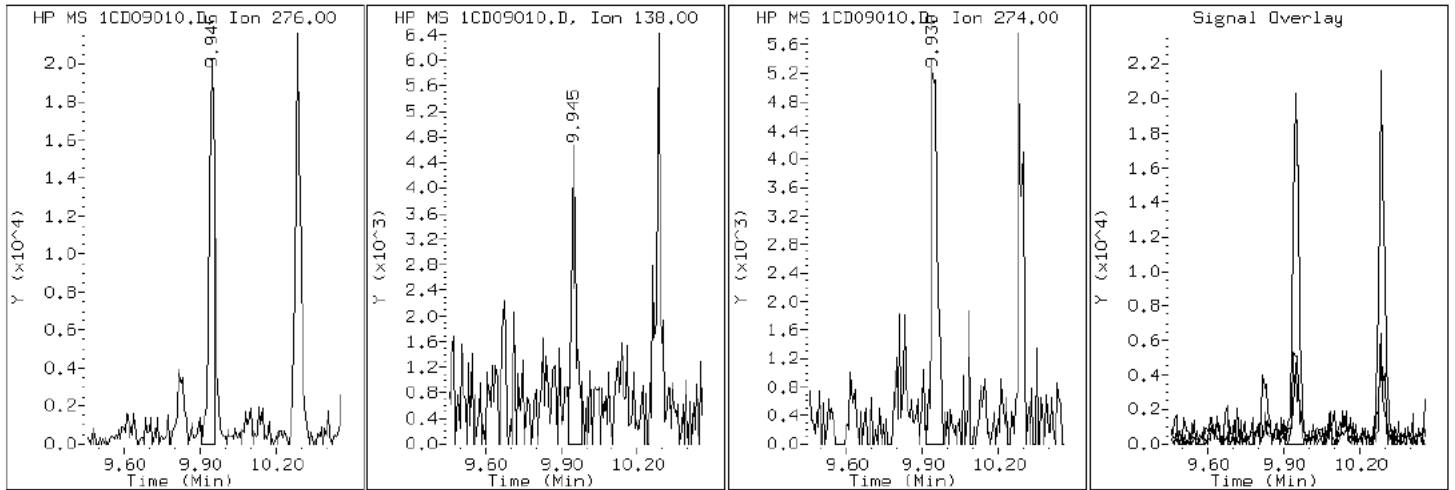
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

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



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

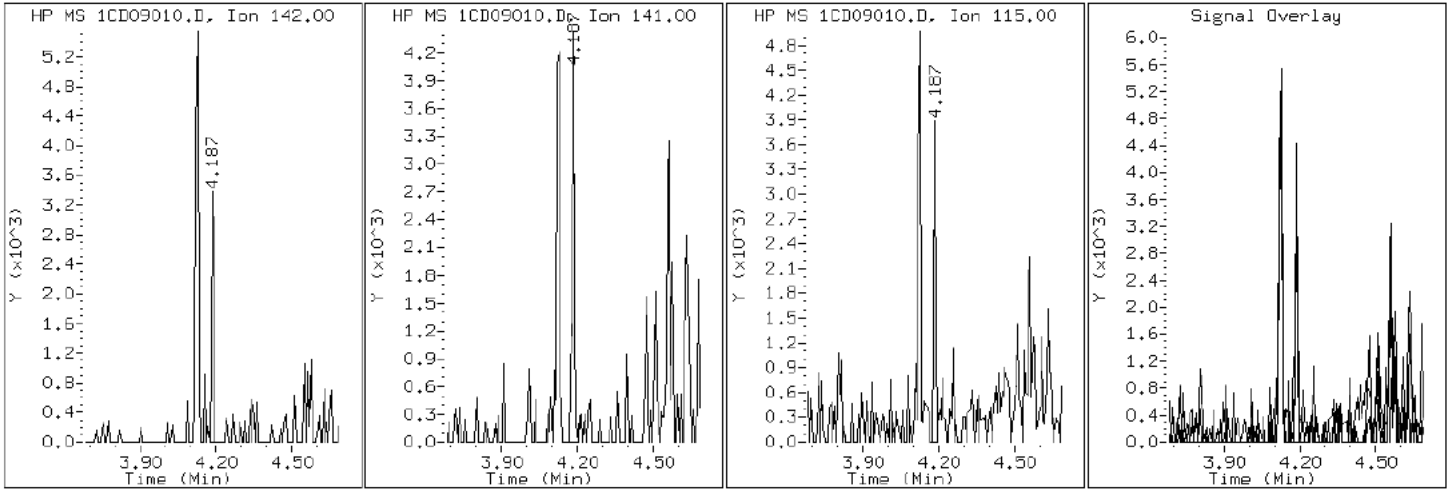
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

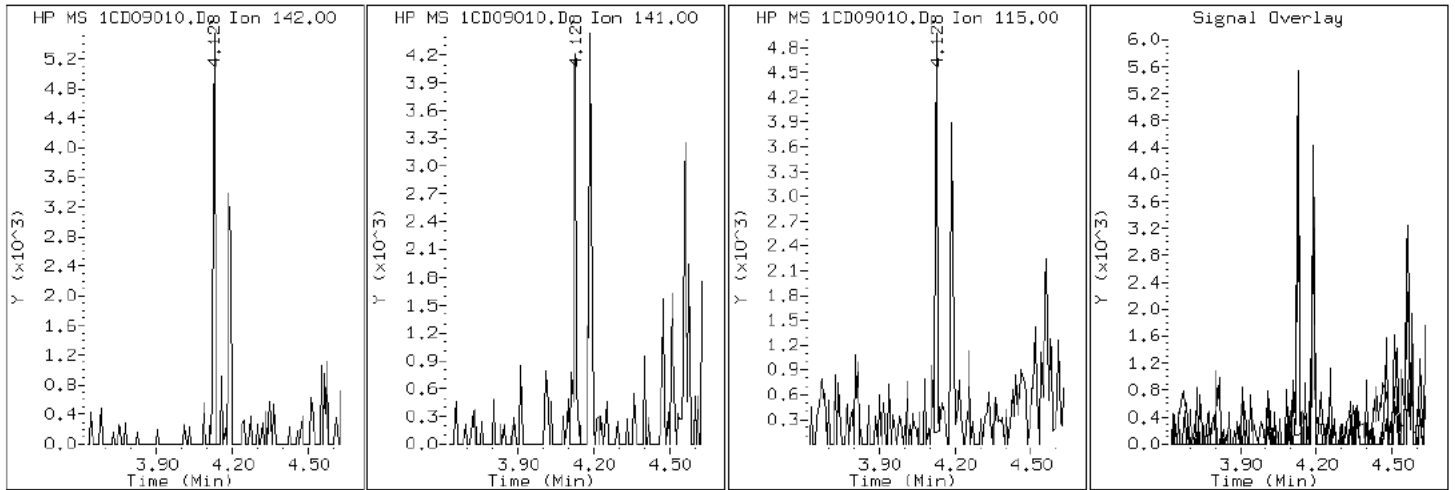
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

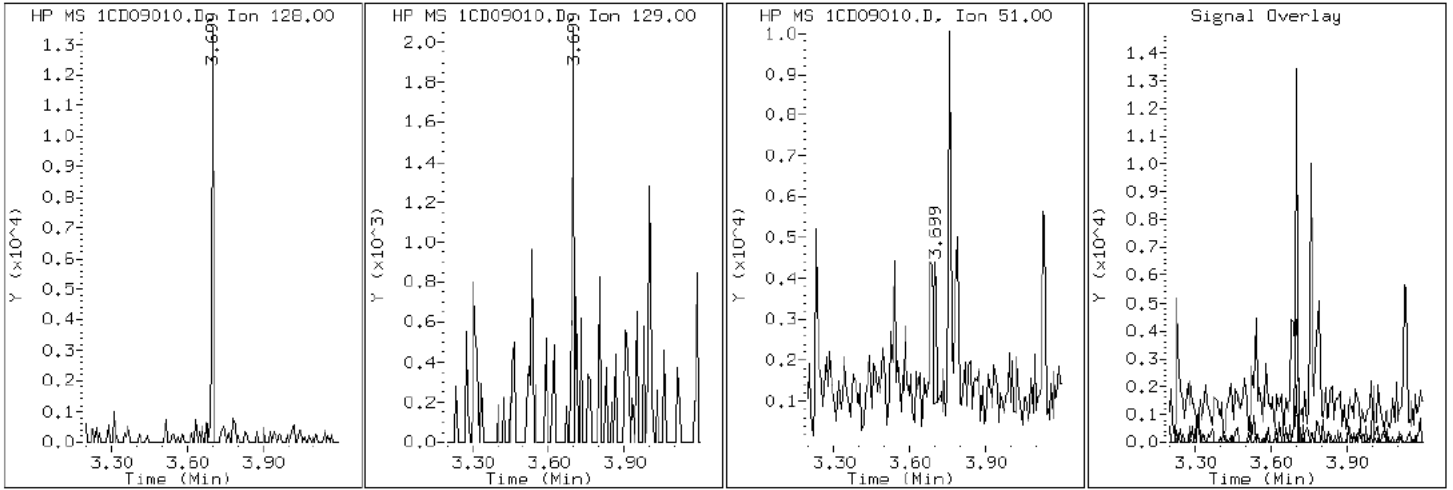
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

2 Naphthalene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

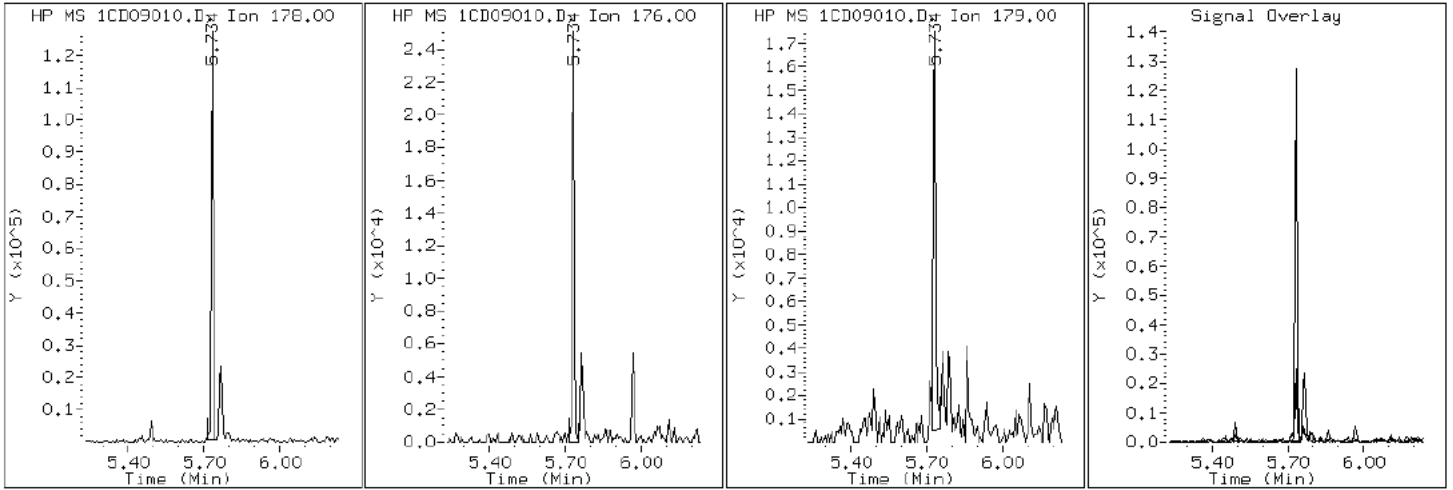
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

11 Phenanthrene



Data File: 1CD09010.D

Date: 09-APR-2013 14:00

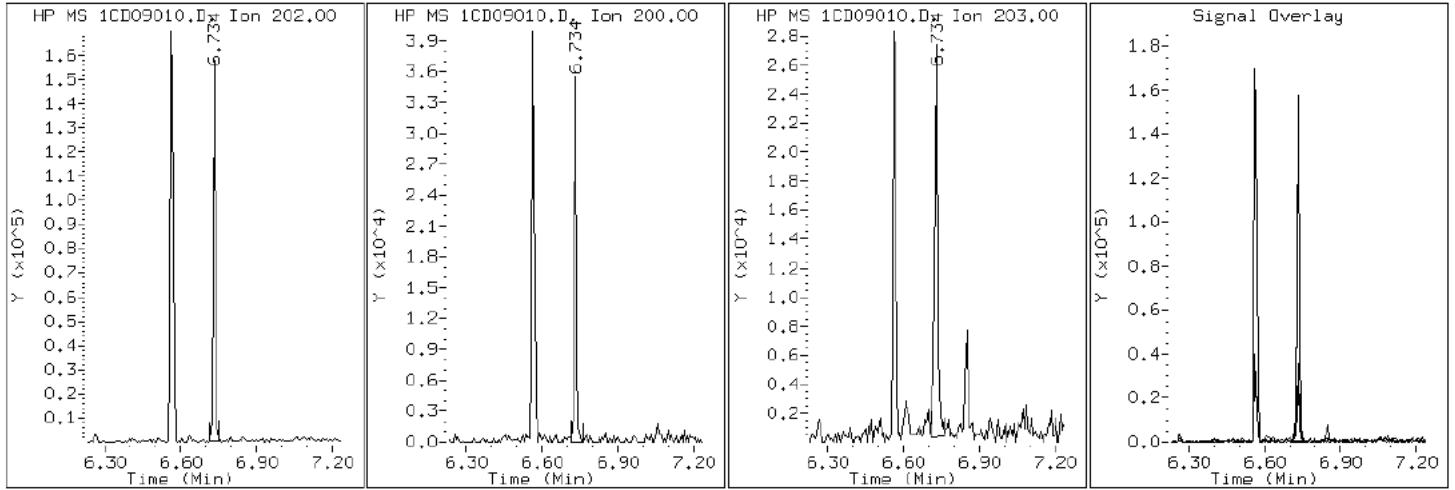
Client ID: CV0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-14-A

Operator: SCC

16 Pyrene



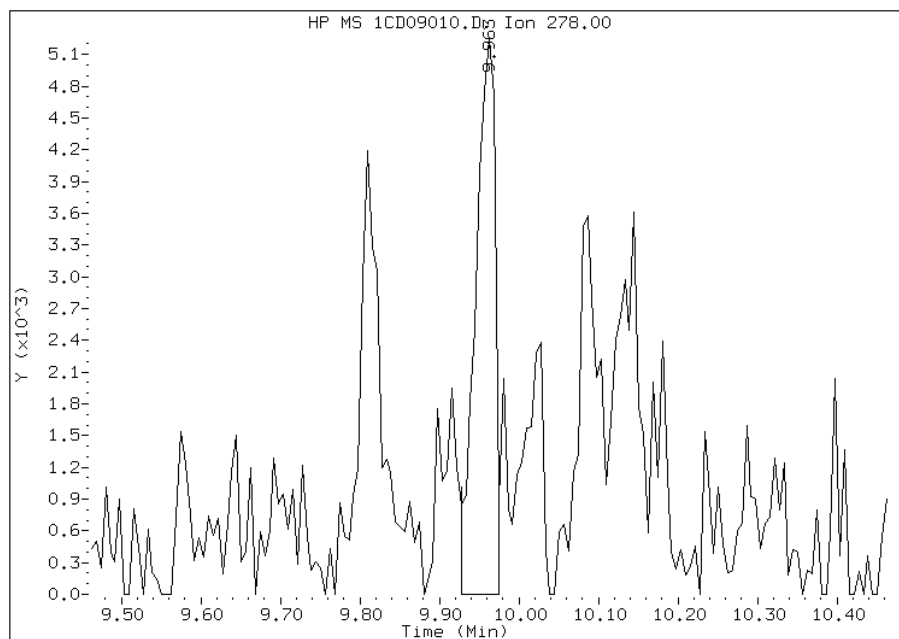


# Manual Integration Report

Data File: 1CD09010.D  
Inj. Date and Time: 09-APR-2013 14:00  
Instrument ID: BSMC5973.i  
Client ID: CV0013B-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

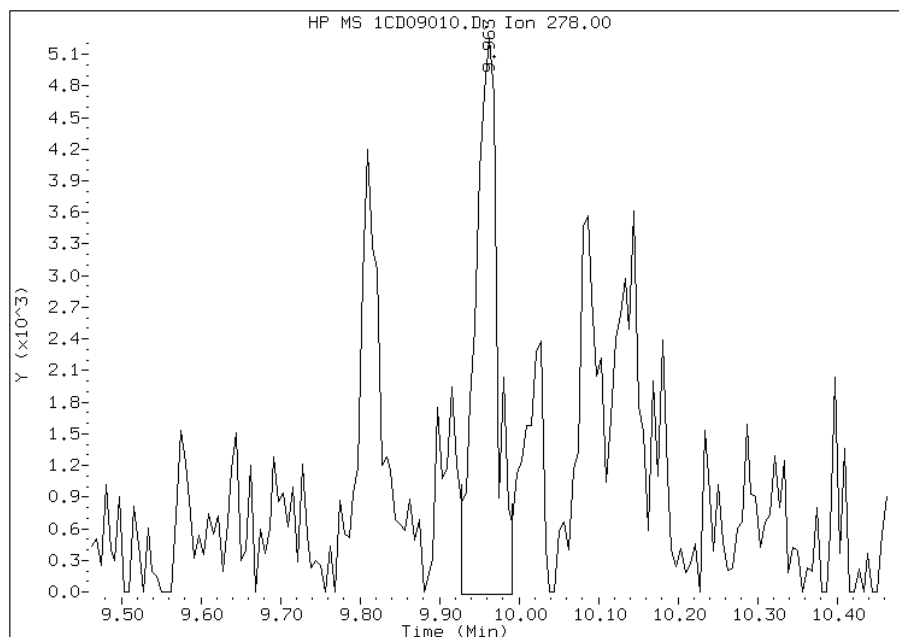
## Processing Integration Results

RT: 9.96  
Response: 9069  
Amount: 1  
Conc: 50



## Manual Integration Results

RT: 9.96  
Response: 10401  
Amount: 1  
Conc: 57



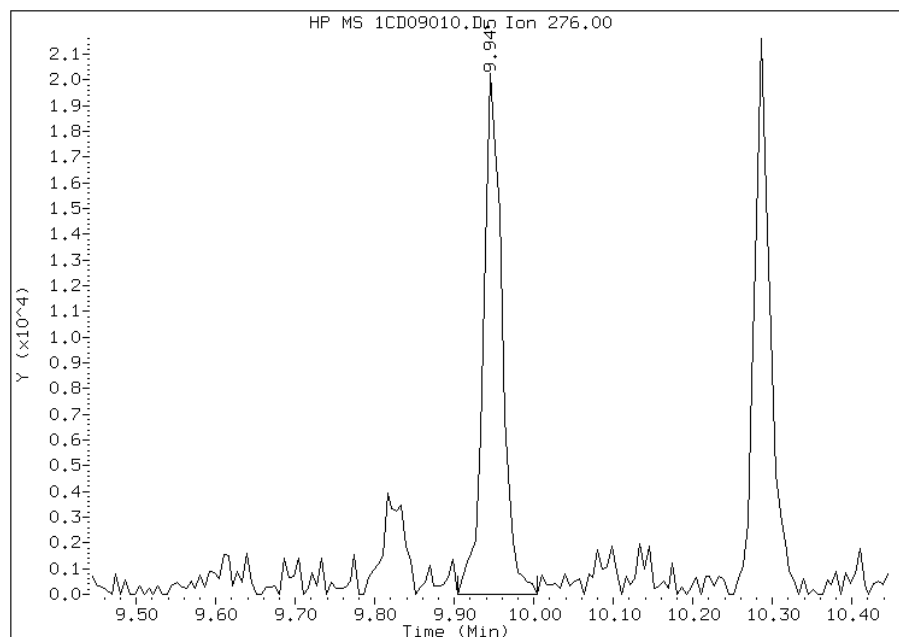
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:47  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD09010.D  
Inj. Date and Time: 09-APR-2013 14:00  
Instrument ID: BSMC5973.i  
Client ID: CV0013B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

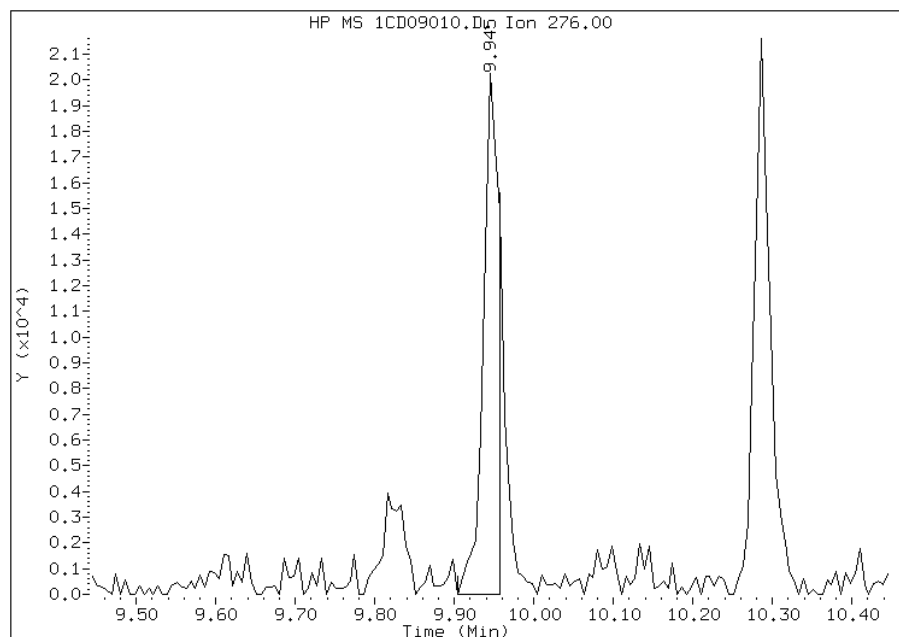
## Processing Integration Results

RT: 9.95  
Response: 32828  
Amount: 2  
Conc: 166



## Manual Integration Results

RT: 9.95  
Response: 27444  
Amount: 1  
Conc: 139



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:47  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013C-CS Lab Sample ID: 680-88811-15  
 Matrix: Solid Lab File ID: 1CD09011.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:58  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.30 (g) Date Analyzed: 04/09/2013 14:18  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 33.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136263 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	240	U	240	30
120-12-7	Anthracene	68		50	25
56-55-3	Benzo[a]anthracene	420		47	23
50-32-8	Benzo[a]pyrene	330		62	31
205-99-2	Benzo[b]fluoranthene	430		72	36
191-24-2	Benzo[g,h,i]perylene	320		120	26
207-08-9	Benzo[k]fluoranthene	330		47	21
218-01-9	Chrysene	420		53	27
53-70-3	Dibenz(a,h)anthracene	89	J	120	24
206-44-0	Fluoranthene	530		120	24
86-73-7	Fluorene	54	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	200		120	42
90-12-0	1-Methylnaphthalene	89	J	240	26
91-57-6	2-Methylnaphthalene	93	J	240	42
91-20-3	Naphthalene	110	J	240	26
85-01-8	Phenanthrene	320		47	23
129-00-0	Pyrene	520		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	99		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09011.D  
 Lab Smp Id: 680-88811-A-15-A Client Smp ID: CV0013C-CS  
 Inj Date : 09-APR-2013 14:18  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-15-A  
 Misc Info : 680-88811-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 11  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	33.702	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.686	3.686	(1.000)	615436	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	461034	40.0000	
* 10 Phenanthrene-d10	188		5.715	5.716	(1.000)	883298	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.968	(1.044)	25291	2.47956	977.7793
* 18 Chrysene-d12	240		7.656	7.657	(1.000)	985291	40.0000	
* 23 Perylene-d12	264		8.821	8.827	(1.000)	942862	40.0000	
2 Naphthalene	128		3.698	3.698	(1.003)	4350	0.27519	108.5166(Q)
3 2-Methylnaphthalene	142		4.127	4.127	(1.120)	2527	0.23484	92.6075
4 1-Methylnaphthalene	142		4.186	4.186	(1.136)	2179	0.22505	88.7462
9 Fluorene	166		5.110	5.110	(1.070)	2146	0.13621	53.7132
11 Phenanthrene	178		5.733	5.733	(1.003)	20864	0.81102	319.8126
12 Anthracene	178		5.768	5.768	(1.009)	4523	0.17344	68.3931
13 Carbazole	167		5.874	5.874	(1.028)	3352	0.15003	59.1613
15 Fluoranthene	202		6.562	6.568	(1.148)	38047	1.33917	528.0829

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.733	6.733	(0.879)	35933	1.31655	519.1621
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	26702	1.07094	422.3101
19 Chrysene	228	7.668	7.674	(1.002)	30173	1.07467	423.7811
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	29312	1.09966	433.6350
21 Benzo(k)fluoranthene	252	8.492	8.509	(0.963)	21449	0.83198	328.0791
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	21291	0.84840	334.5533
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.956	(1.127)	11987	0.50289	198.3092(M)
25 Dibenzo(a,h)anthracene	278	9.956	9.974	(1.129)	4992	0.22671	89.4017
26 Benzo(g,h,i)perylene	276	10.280	10.298	(1.165)	19450	0.79951	315.2740

QC Flag Legend

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

Data File: 1CD09011.D

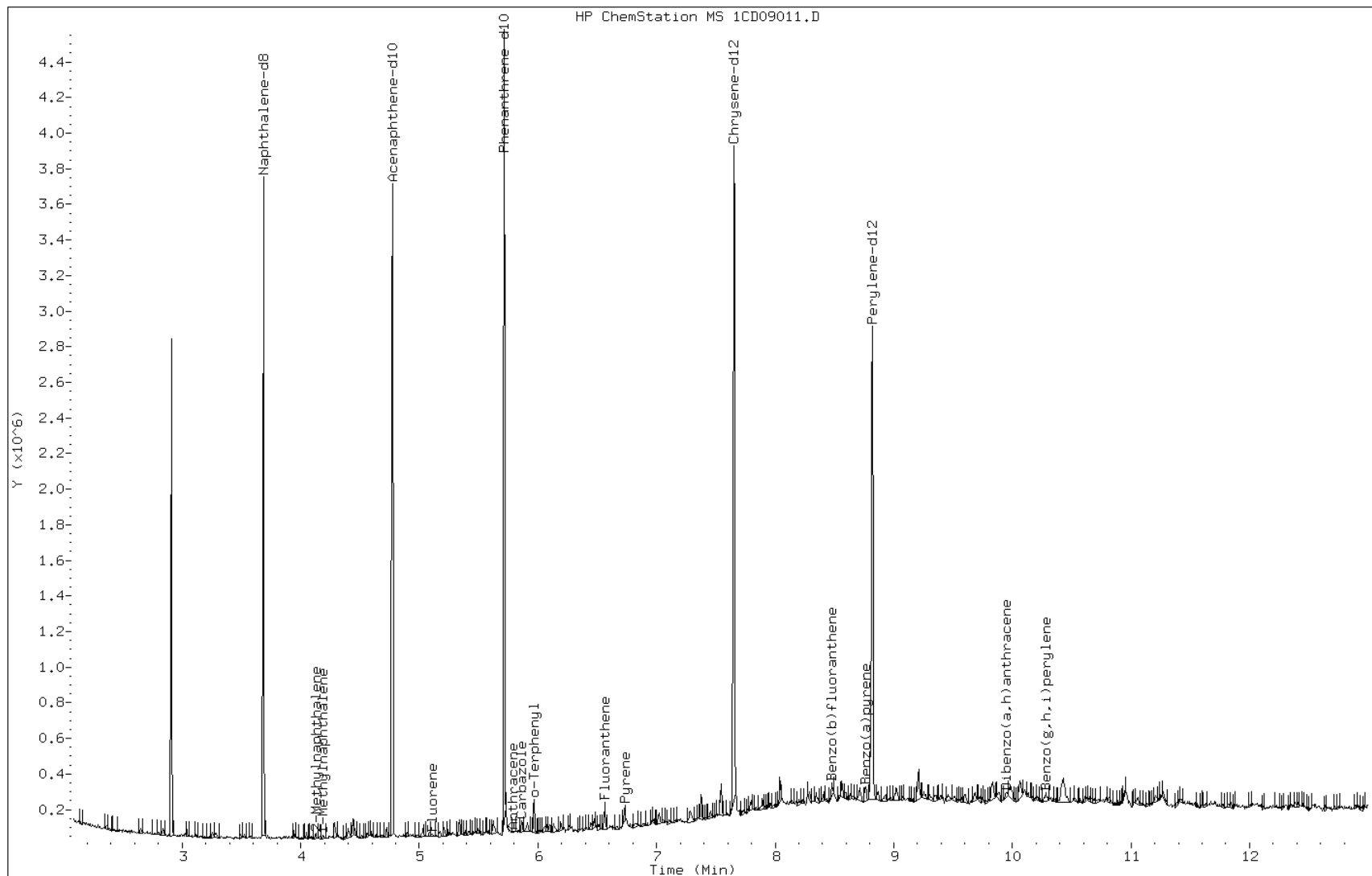
Date: 09-APR-2013 14:18

Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

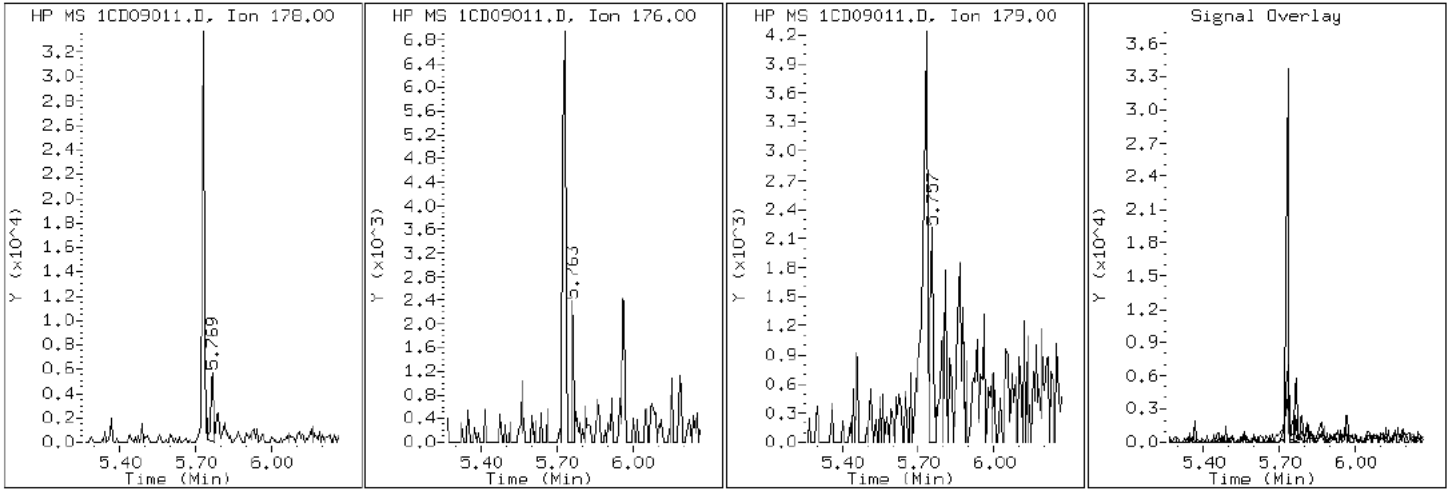
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

12 Anthracene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

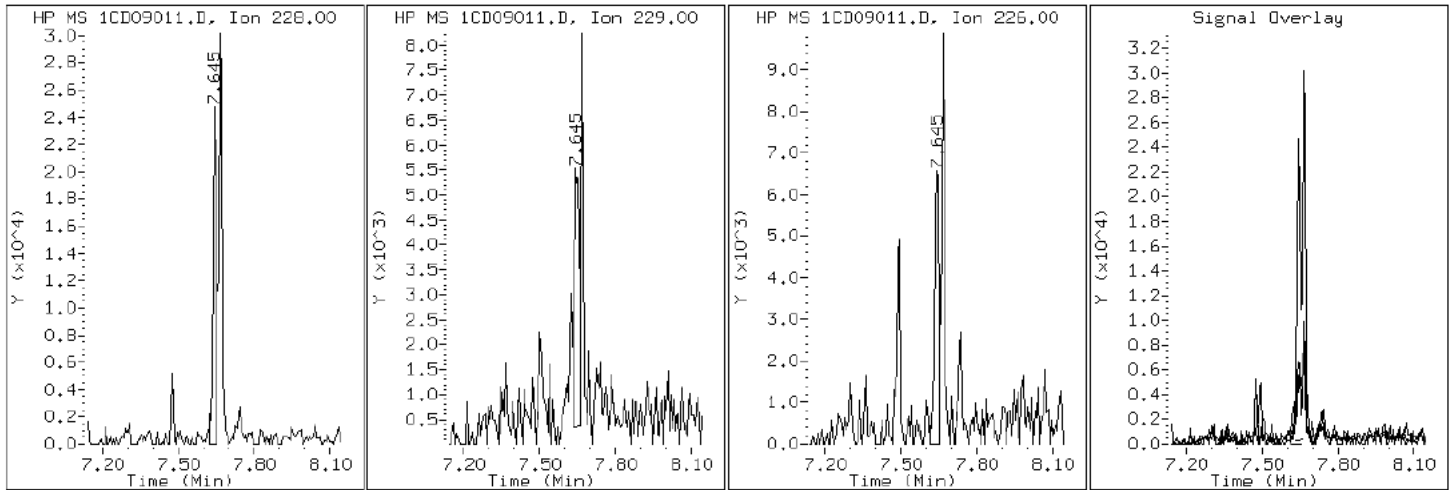
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD09011.D

Date: 09-APR-2013 14:18

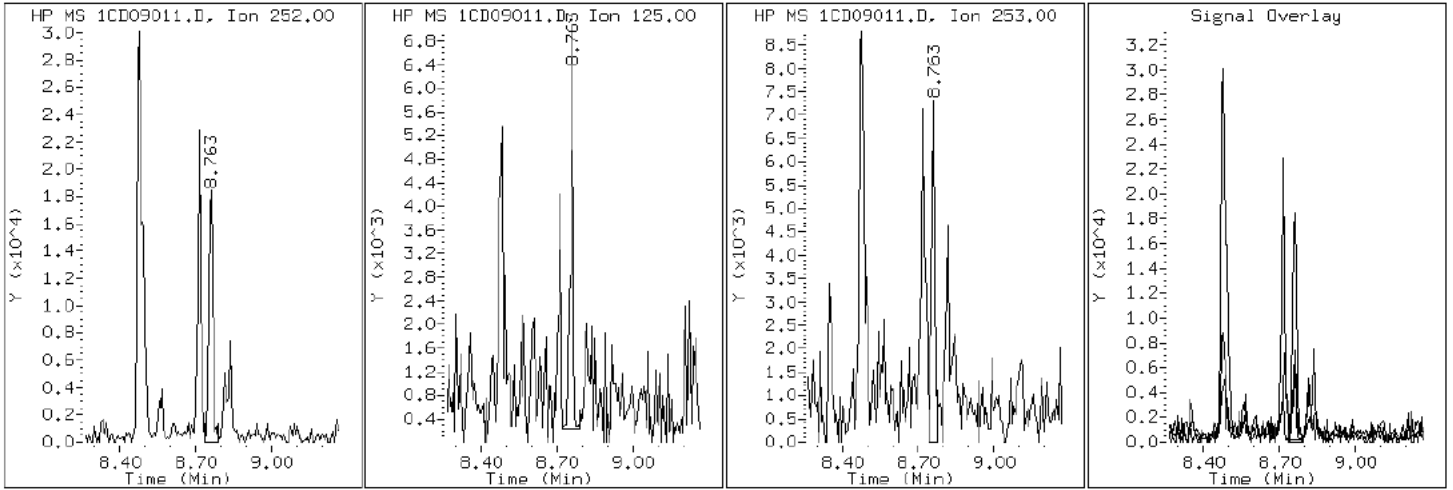
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

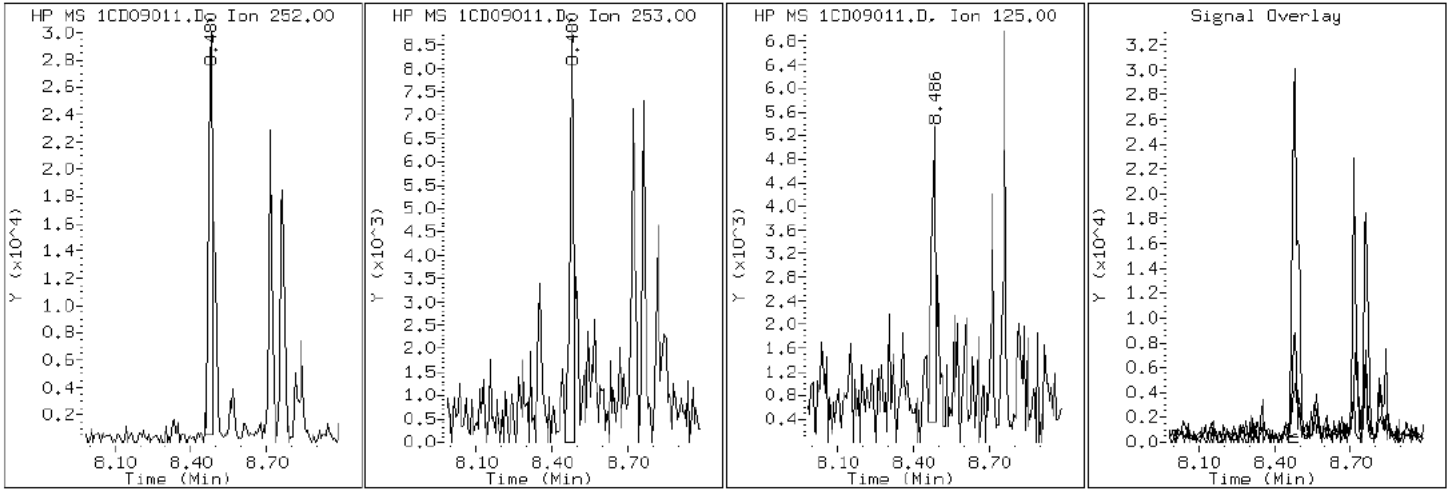
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

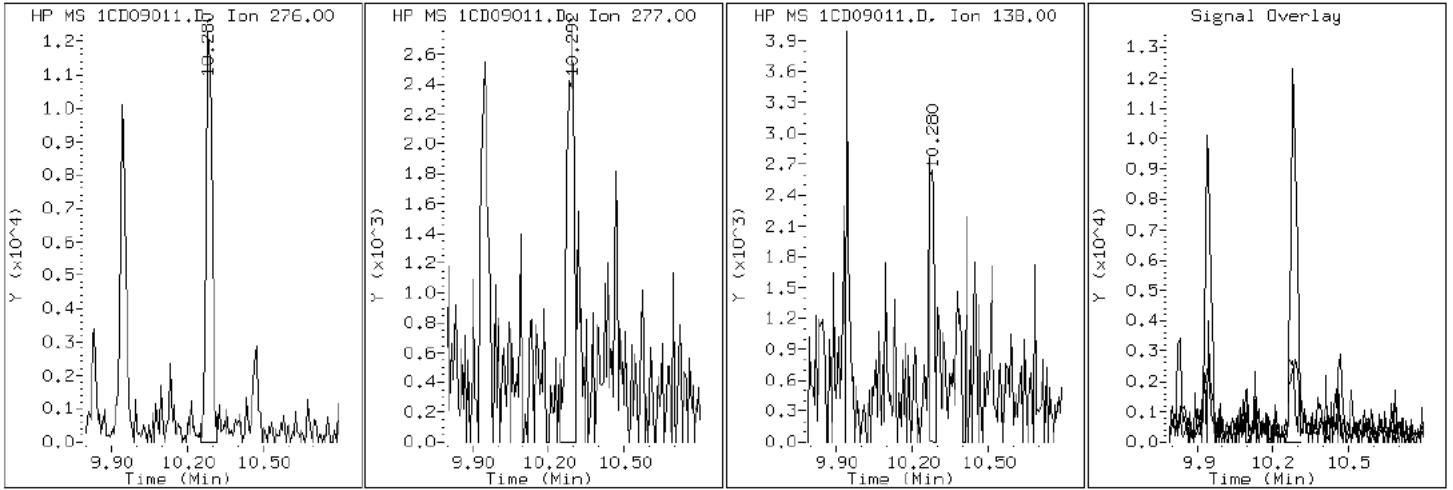
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

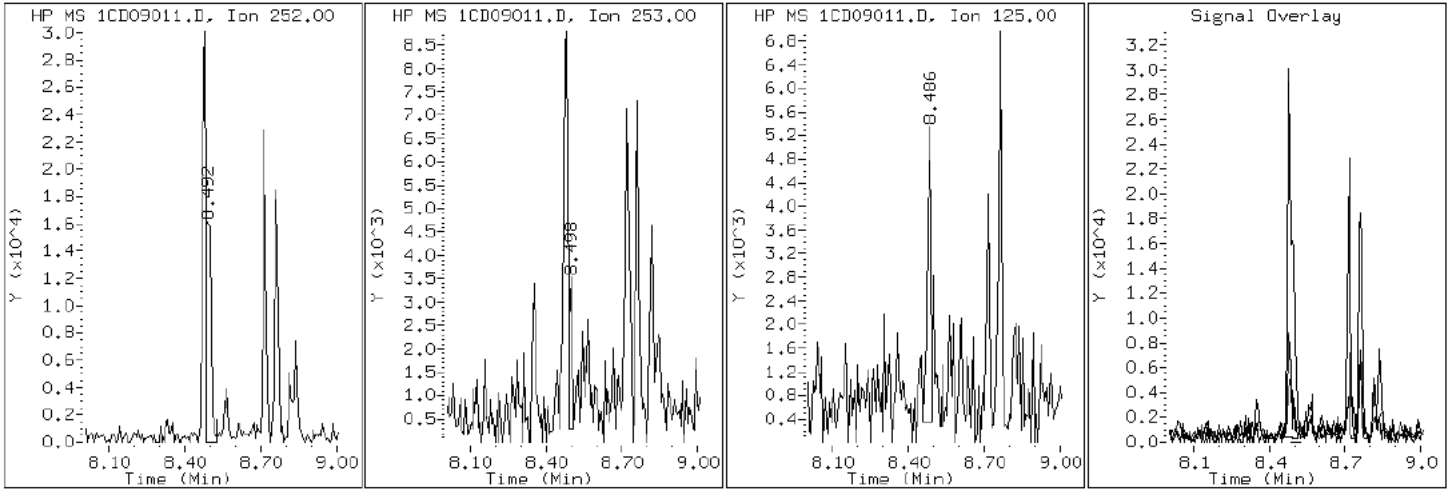
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

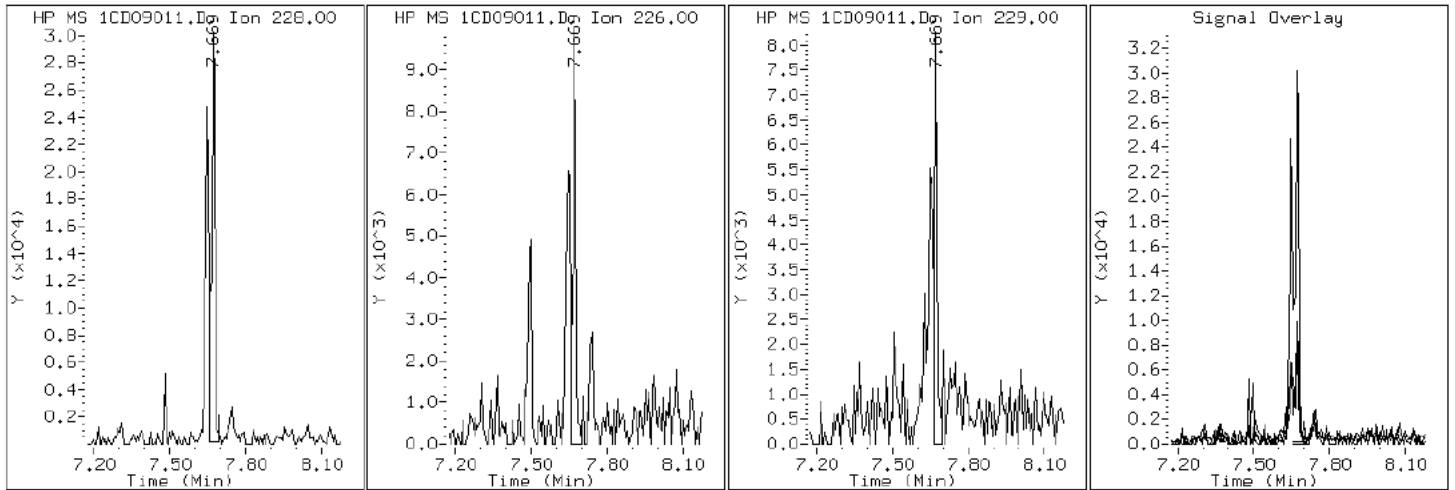
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

19 Chrysene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

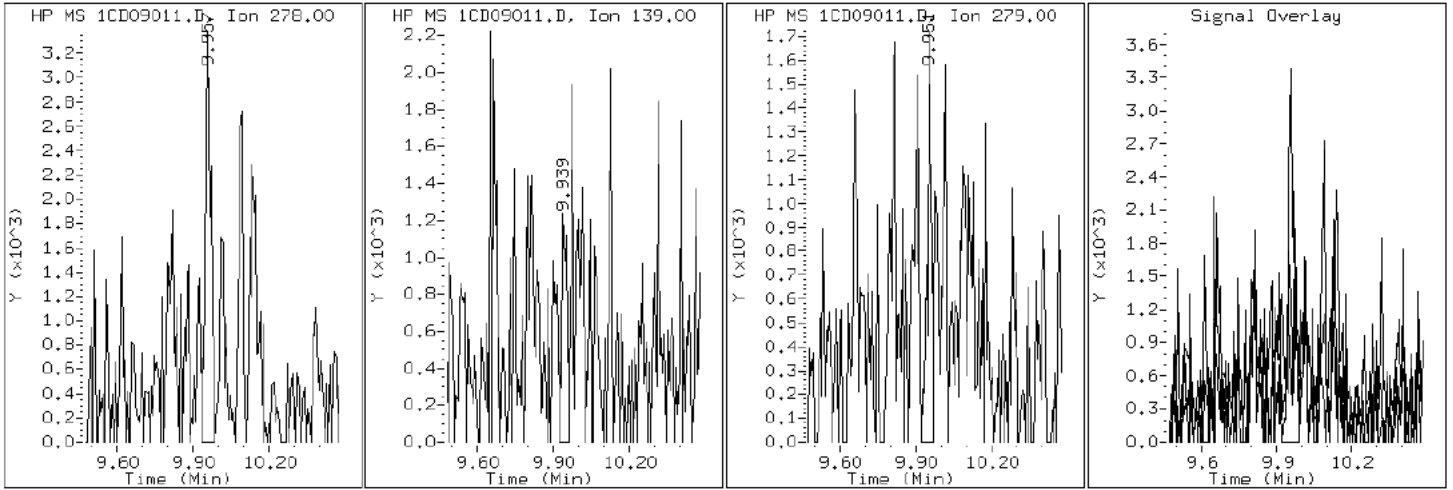
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

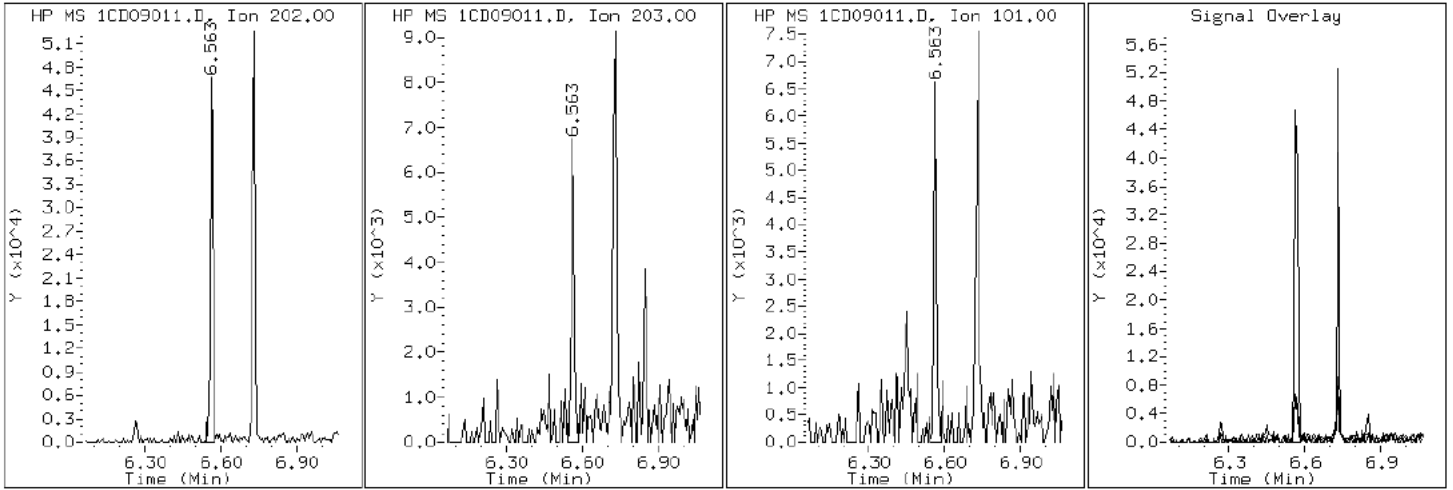
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

15 Fluoranthene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

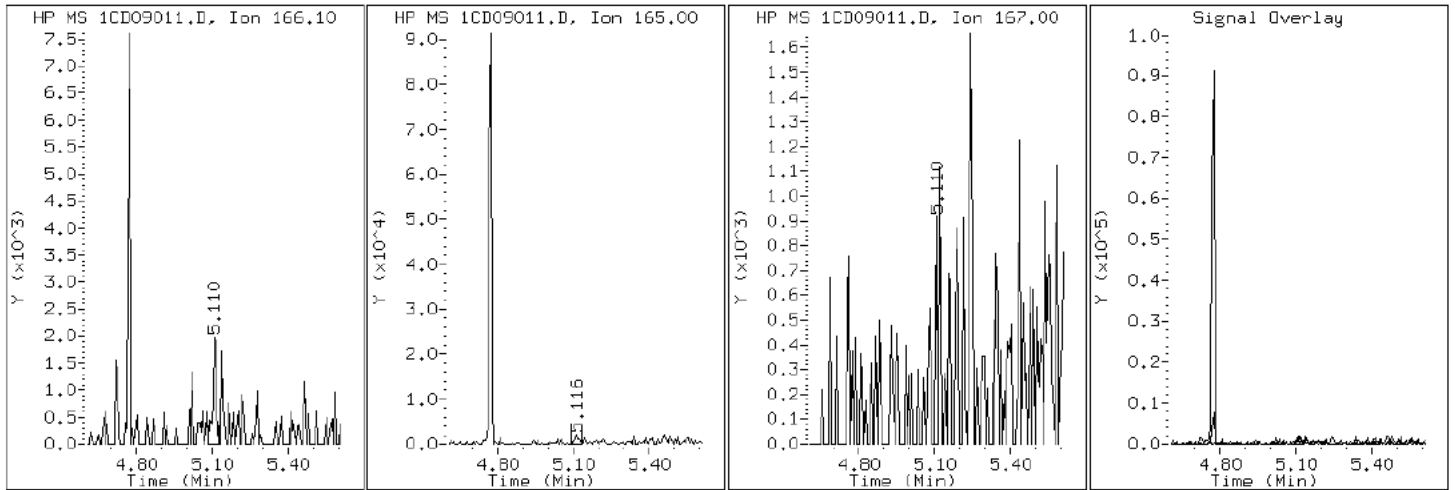
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

9 Fluorene





Data File: 1CD09011.D

Date: 09-APR-2013 14:18

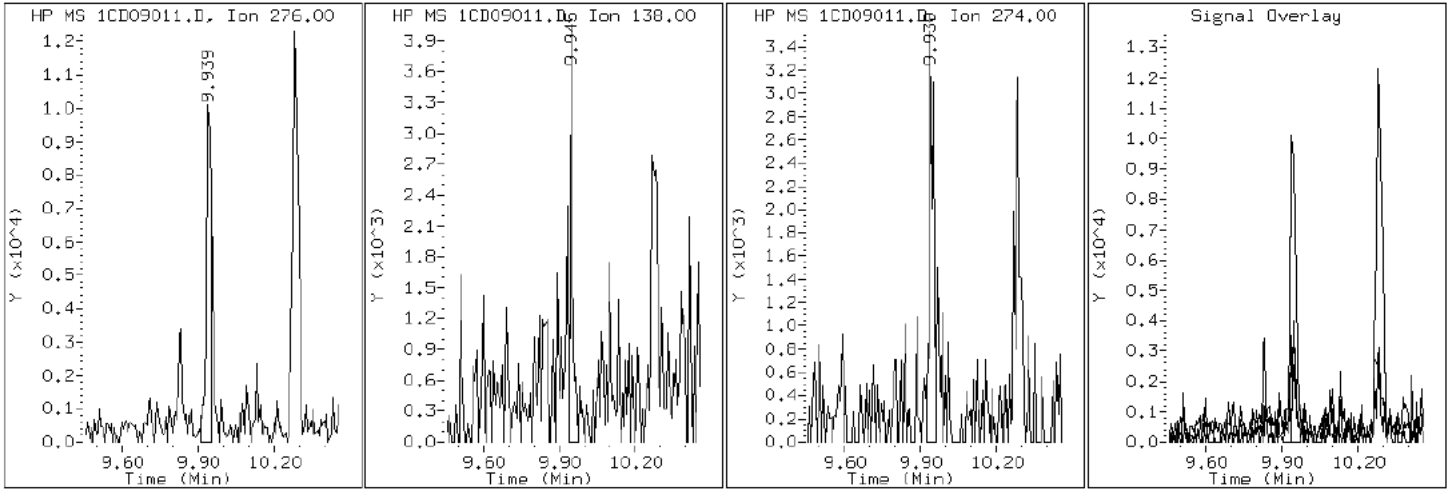
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

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



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

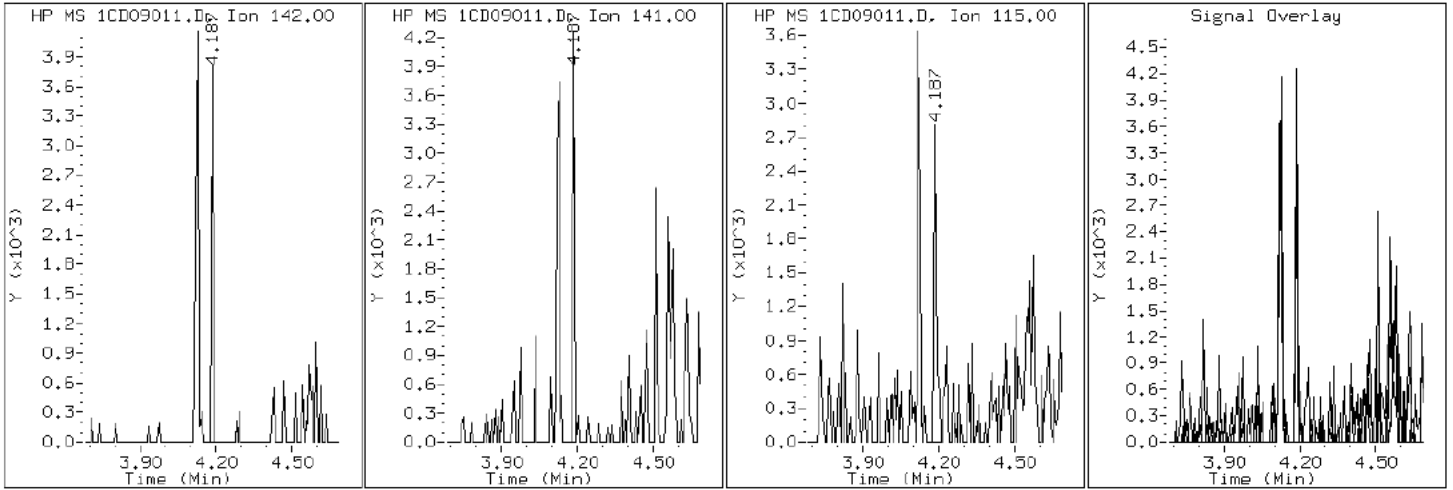
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

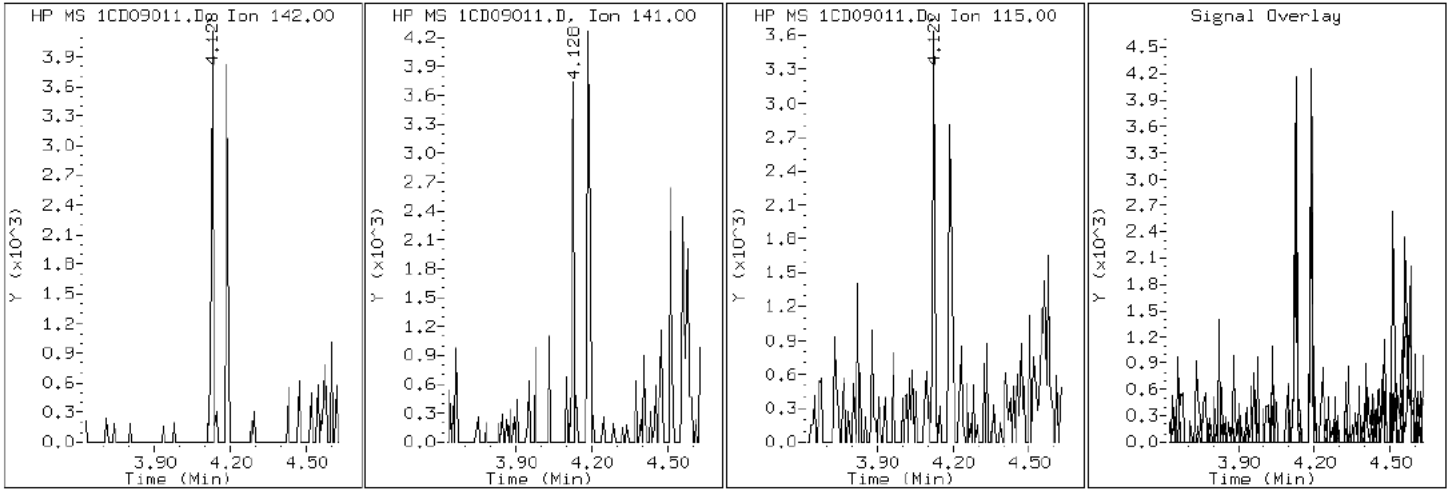
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

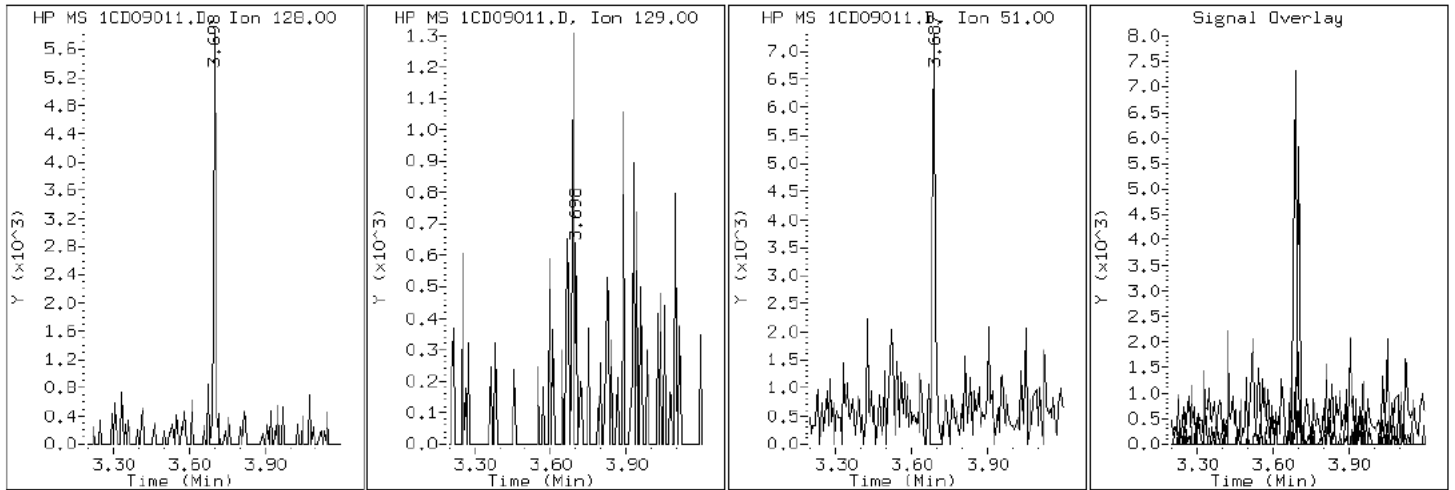
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

2 Naphthalene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

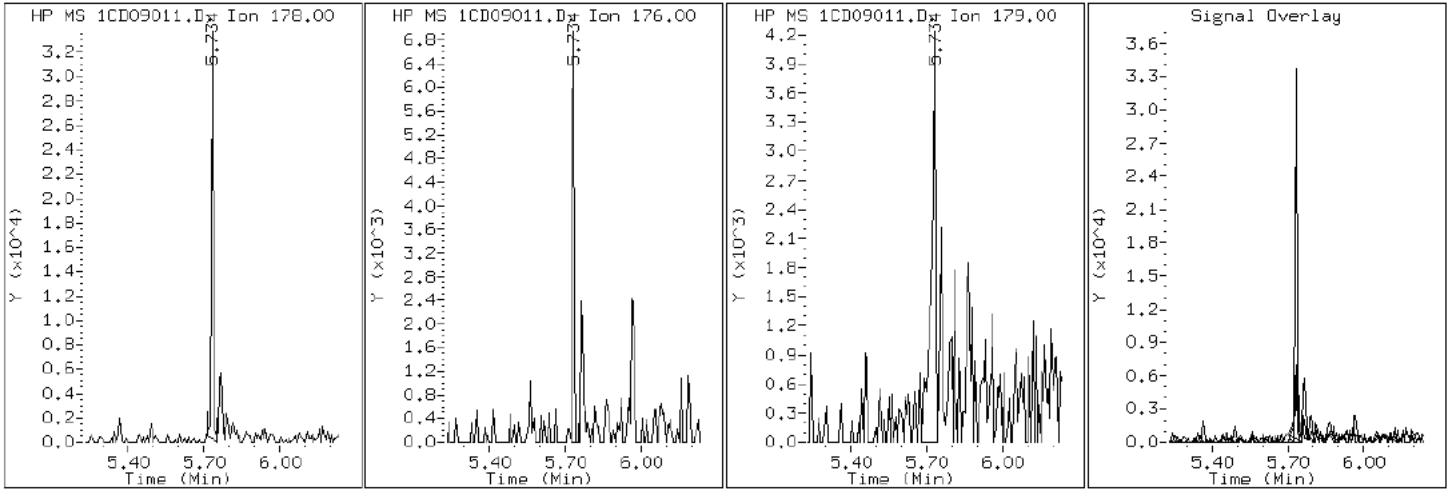
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

11 Phenanthrene



Data File: 1CD09011.D

Date: 09-APR-2013 14:18

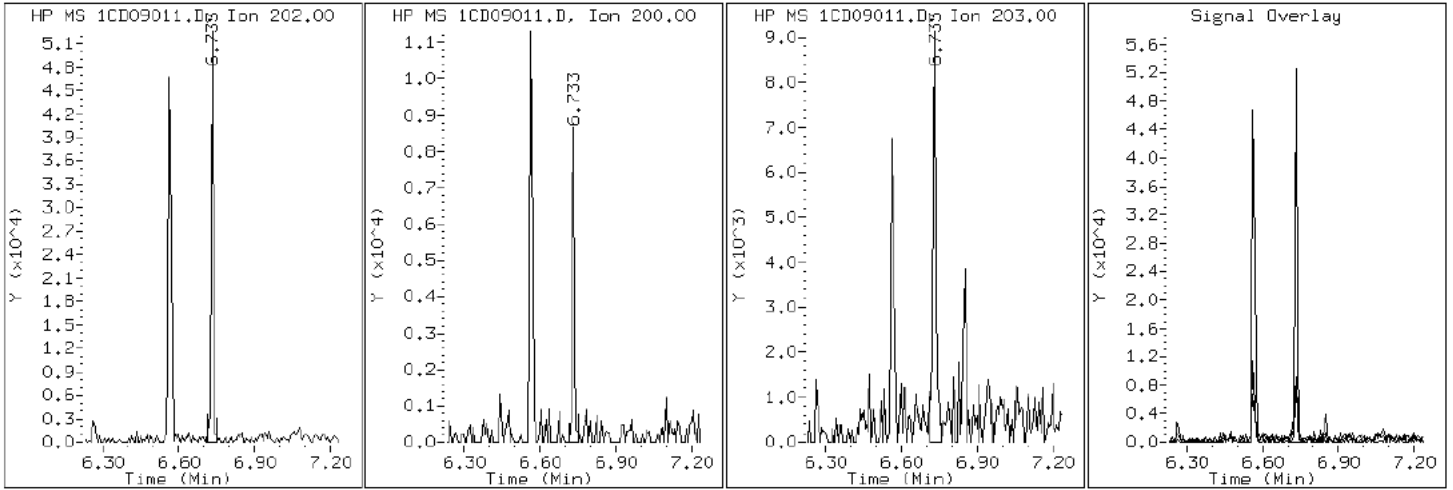
Client ID: CV0013C-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-15-A

Operator: SCC

16 Pyrene

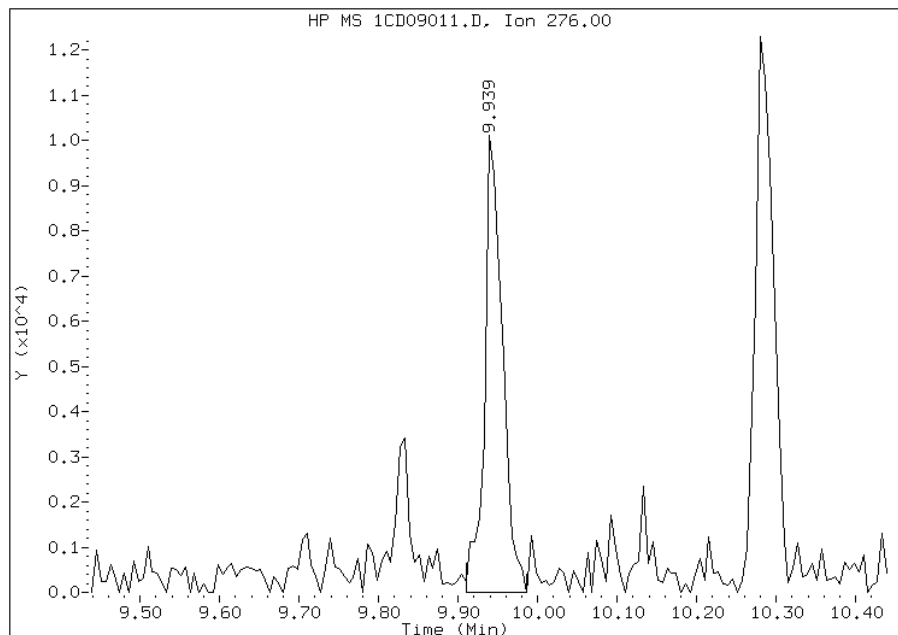


# Manual Integration Report

Data File: 1CD09011.D  
Inj. Date and Time: 09-APR-2013 14:18  
Instrument ID: BSMC5973.i  
Client ID: CV0013C-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

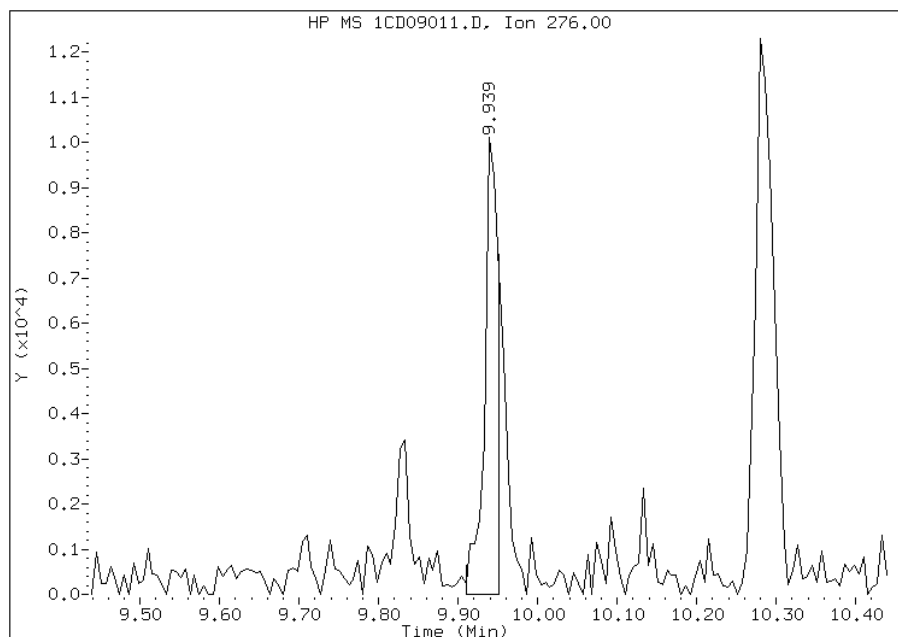
## Processing Integration Results

RT: 9.94  
Response: 15662  
Amount: 1  
Conc: 259



## Manual Integration Results

RT: 9.94  
Response: 11987  
Amount: 1  
Conc: 198



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 16:48  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013C-CSD Lab Sample ID: 680-88811-16  
 Matrix: Solid Lab File ID: 1CD09012.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 10:00  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 14.93(g) Date Analyzed: 04/09/2013 14:36  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136263 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	32	J	200	25
120-12-7	Anthracene	40	J	42	21
56-55-3	Benzo[a]anthracene	260		40	20
50-32-8	Benzo[a]pyrene	260		52	26
205-99-2	Benzo[b]fluoranthene	420		61	31
191-24-2	Benzo[g,h,i]perylene	250		100	22
207-08-9	Benzo[k]fluoranthene	120		40	18
218-01-9	Chrysene	360		45	23
53-70-3	Dibenz(a,h)anthracene	80	J	100	21
206-44-0	Fluoranthene	380		100	20
86-73-7	Fluorene	22	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	200		100	36
90-12-0	1-Methylnaphthalene	57	J	200	22
91-57-6	2-Methylnaphthalene	93	J	200	36
91-20-3	Naphthalene	93	J	200	22
85-01-8	Phenanthrene	230		40	20
129-00-0	Pyrene	350		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09012.D  
 Lab Smp Id: 680-88811-A-16-A Client Smp ID: CV0013C-CSD  
 Inj Date : 09-APR-2013 14:36  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-16-A  
 Misc Info : 680-88811-A-16-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\A-BFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 12  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	19.818	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.686	3.686	(1.000)	487907	40.0000		
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	363780	40.0000		
* 10 Phenanthrene-d10	188		5.715	5.716	(1.000)	697358	40.0000		
\$ 14 o-Terphenyl	230		5.968	5.968	(1.044)	15231	2.06348	689.4809	
* 18 Chrysene-d12	240		7.651	7.657	(1.000)	807883	40.0000		
* 23 Perylene-d12	264		8.815	8.827	(1.000)	752287	40.0000		
2 Naphthalene	128		3.698	3.698	(1.003)	3474	0.27722	92.6272(Q)	
3 2-Methylnaphthalene	142		4.127	4.127	(1.120)	2379	0.27888	93.1831	
4 1-Methylnaphthalene	142		4.186	4.186	(1.136)	1303	0.16975	56.7203(Q)	
5 Acenaphthylene	152		4.680	4.686	(0.980)	1431	0.09505	31.7579	
9 Fluorene	166		5.110	5.110	(1.070)	822	0.06612	22.0939(Q)	
11 Phenanthrene	178		5.733	5.733	(1.003)	13991	0.68886	230.1729	
12 Anthracene	178		5.768	5.768	(1.009)	2456	0.11929	39.8585	
13 Carbazole	167		5.874	5.874	(1.028)	1682	0.09536	31.8616(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.562	6.568	(1.148)	25252	1.12580	376.1708
16 Pyrene	202	6.733	6.733	(0.880)	23435	1.04719	349.9022
17 Benzo(a)anthracene	228	7.645	7.645	(0.999)	14899	0.77211	257.9891
19 Chrysene	228	7.674	7.674	(1.003)	24518	1.06502	355.8609
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.962)	26695	1.25518	419.4011(M)
21 Benzo(k)fluoranthene	252	8.498	8.509	(0.964)	7253	0.35260	117.8175(QM)
22 Benzo(a)pyrene	252	8.762	8.768	(0.994)	15326	0.76541	255.7519
24 Indeno(1,2,3-cd)pyrene	276	9.945	9.956	(1.128)	11409	0.59990	200.4475(M)
25 Dibenzo(a,h)anthracene	278	9.956	9.974	(1.129)	4206	0.23941	79.9947
26 Benzo(g,h,i)perylene	276	10.286	10.298	(1.167)	14598	0.75207	251.2943

QC Flag Legend

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

Data File: 1CD09012.D

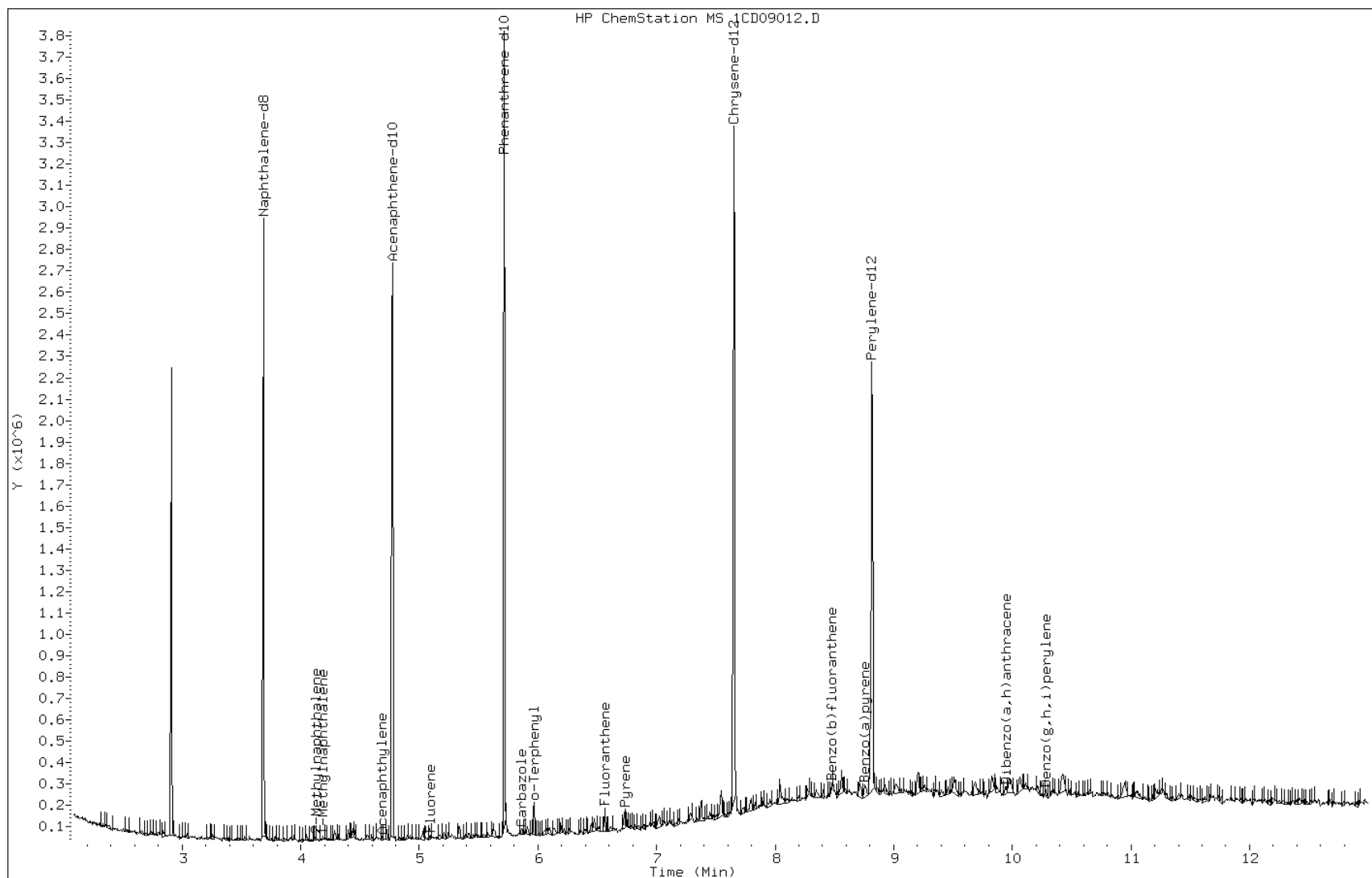
Date: 09-APR-2013 14:36

Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

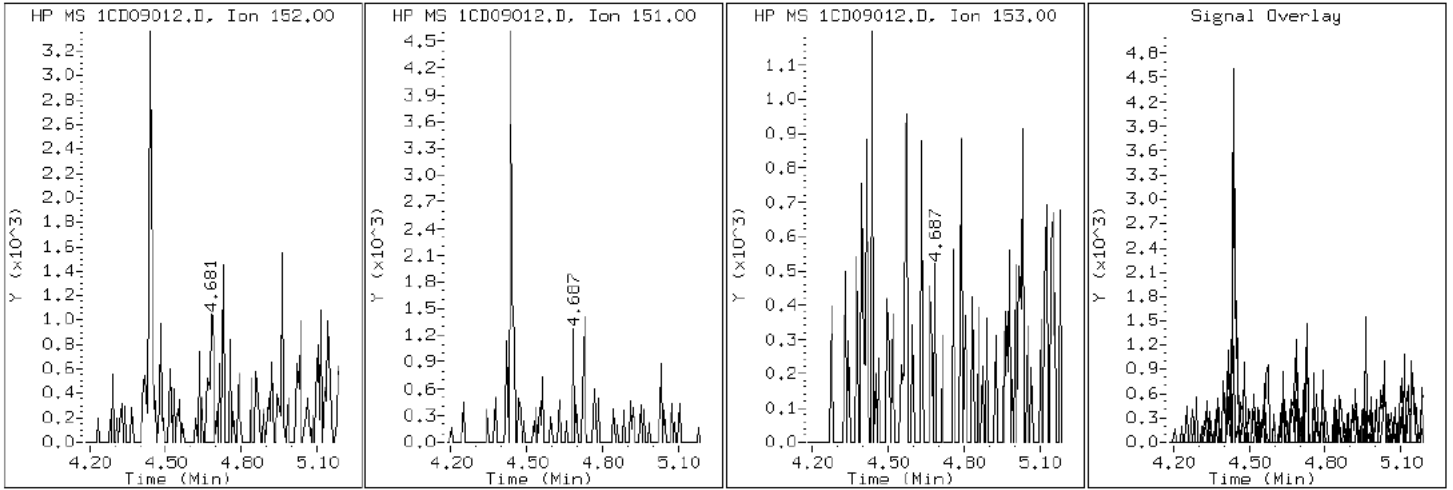
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

5 Acenaphthylene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

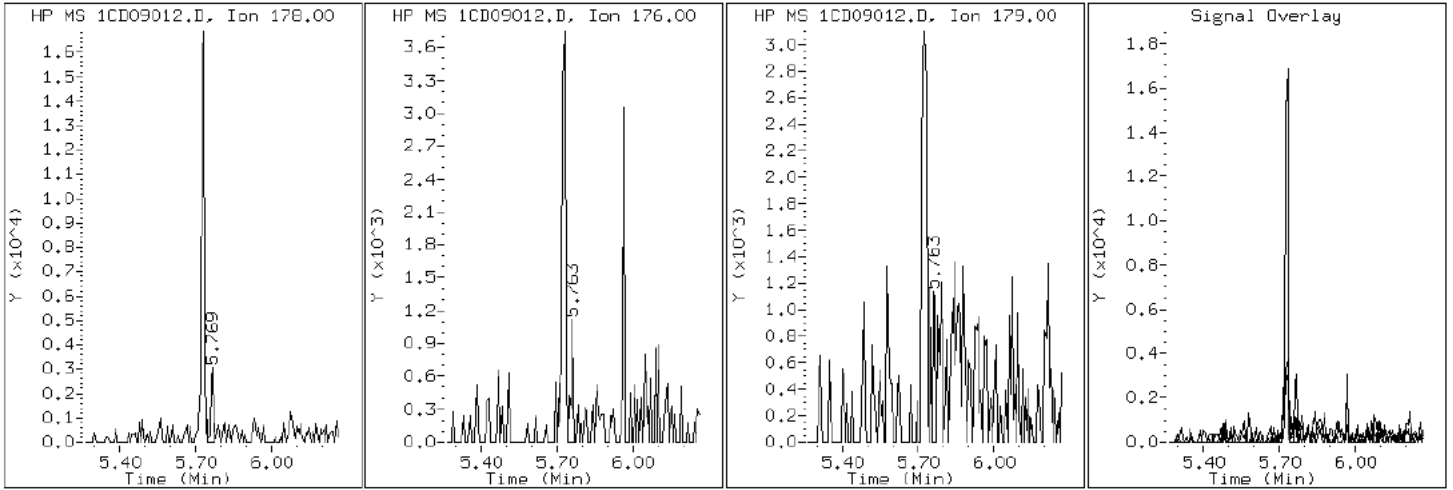
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

12 Anthracene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

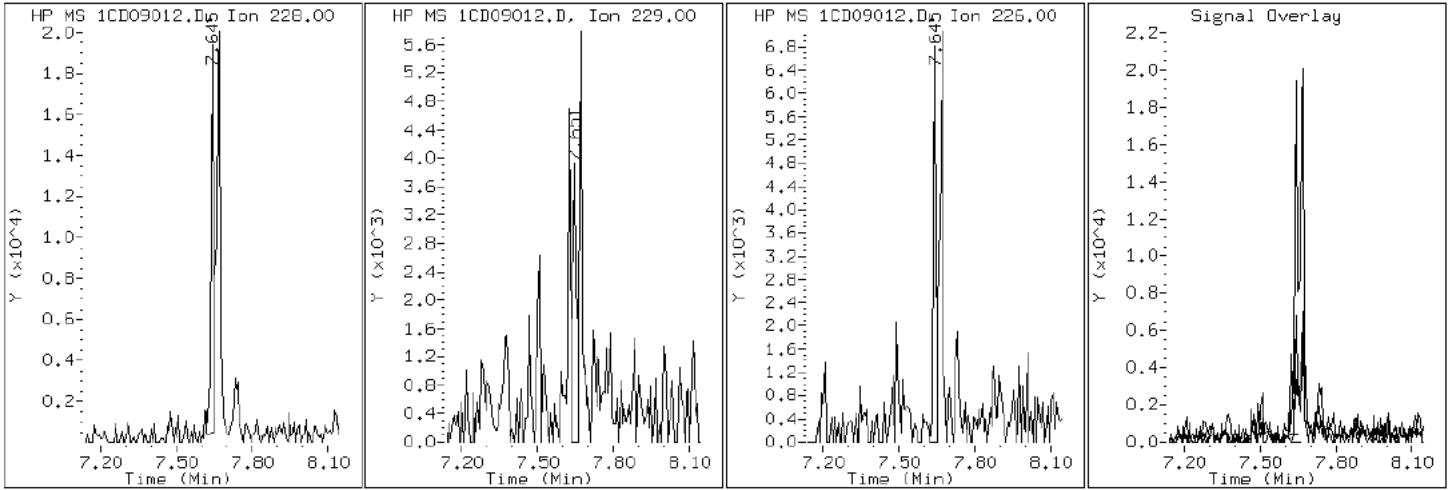
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

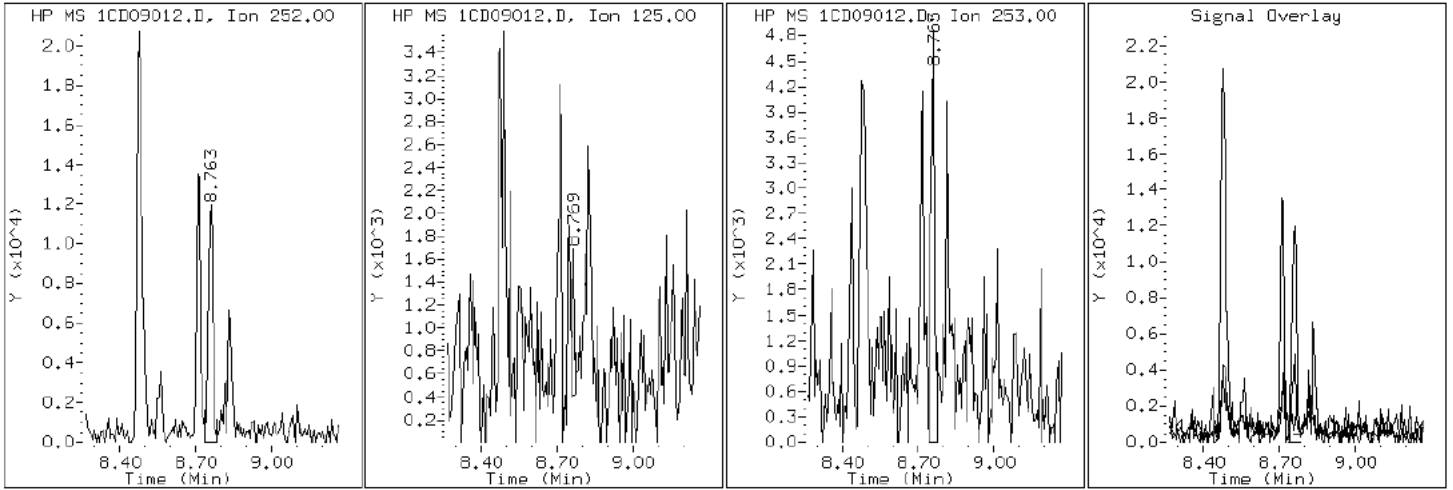
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

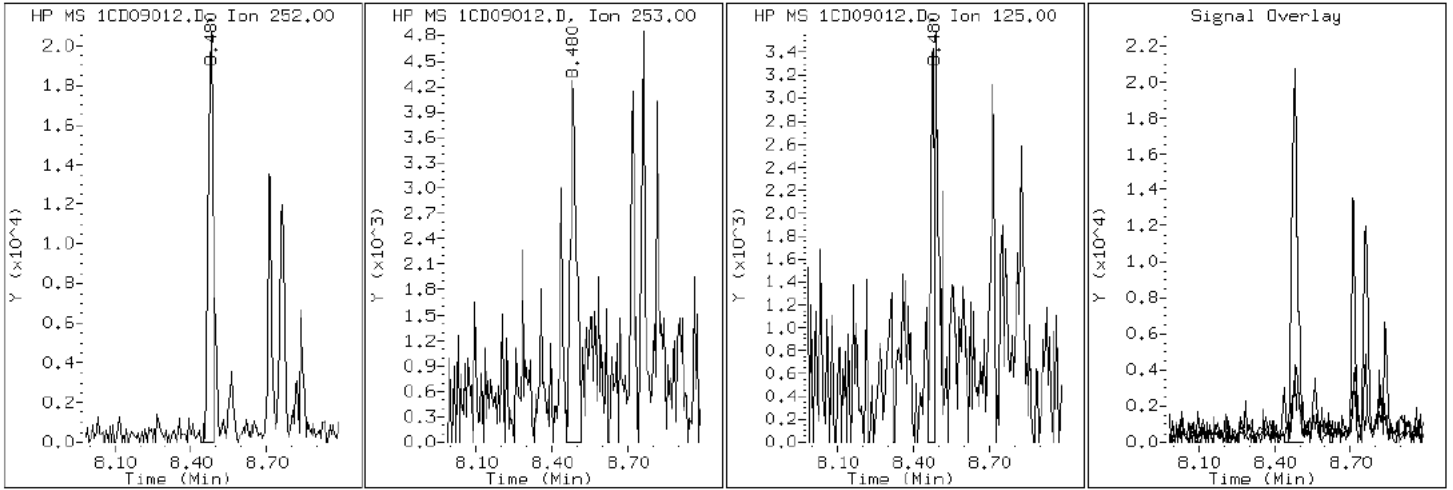
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD09012.D

Date: 09-APR-2013 14:36

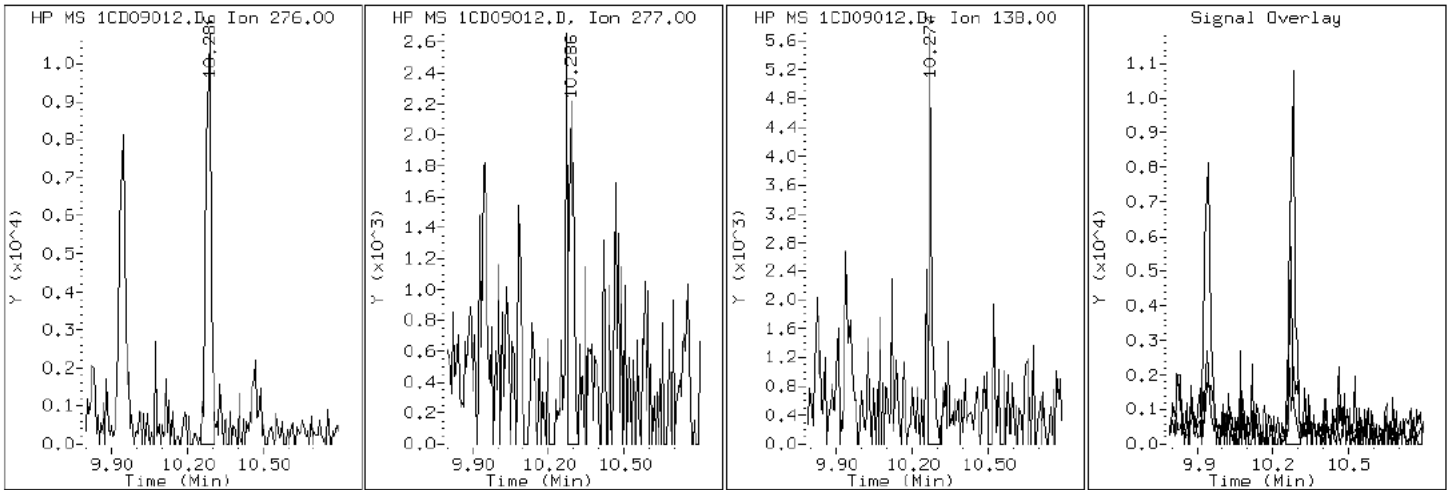
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

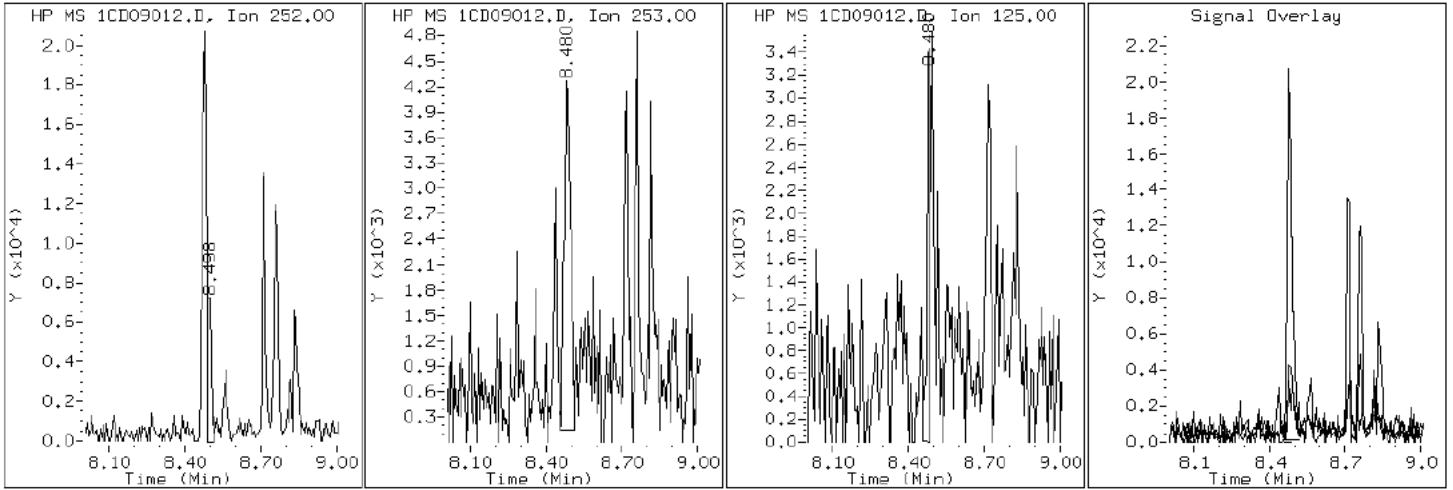
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

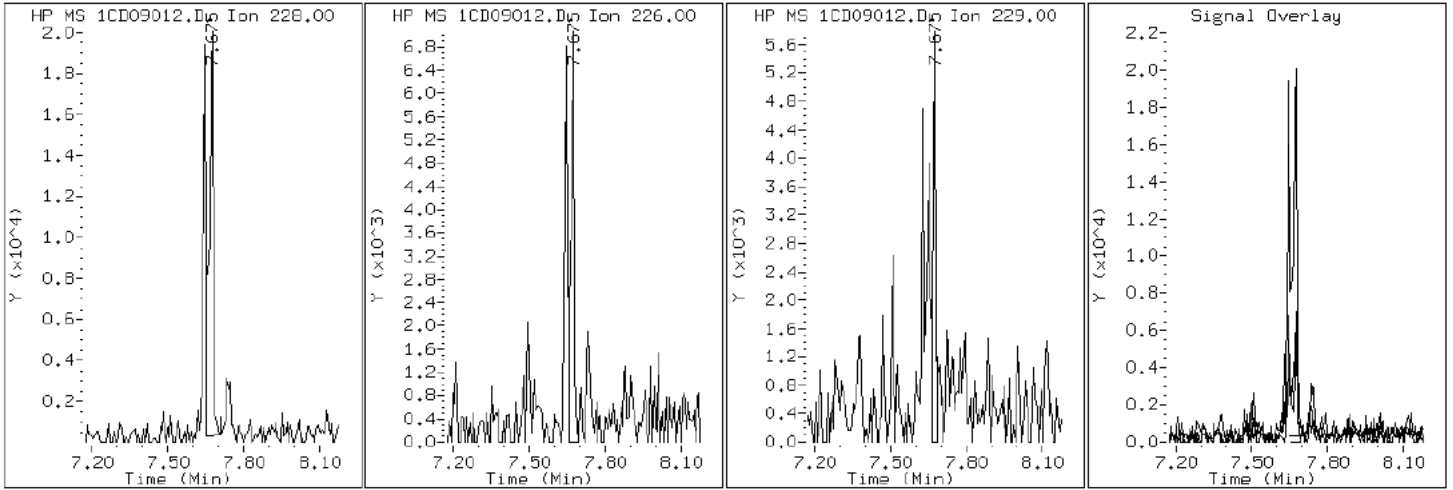
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

19 Chrysene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

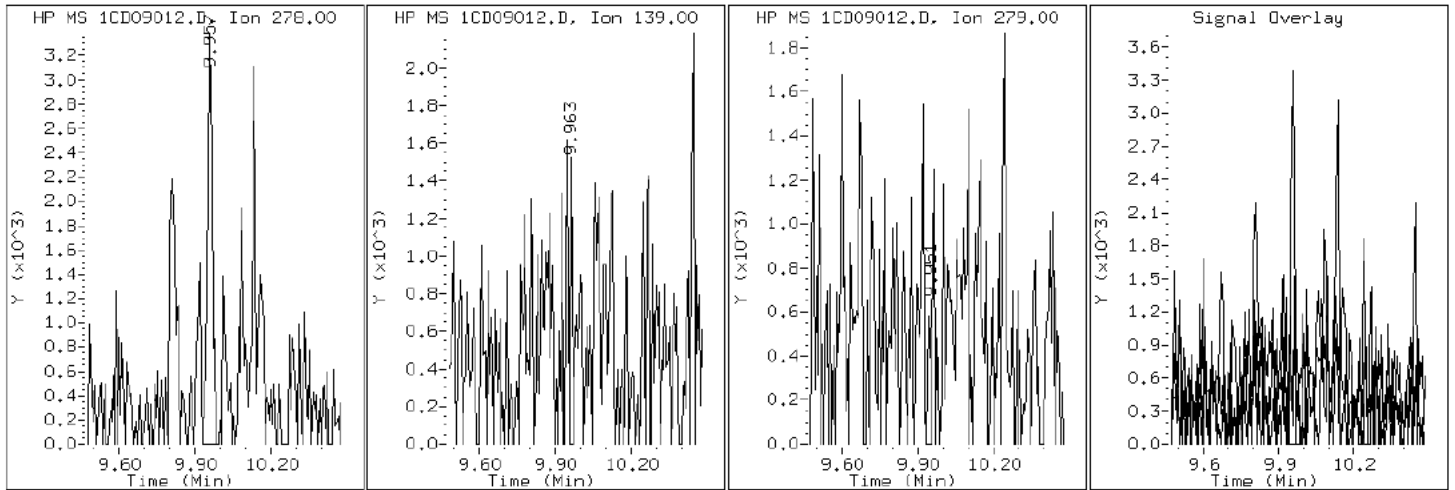
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

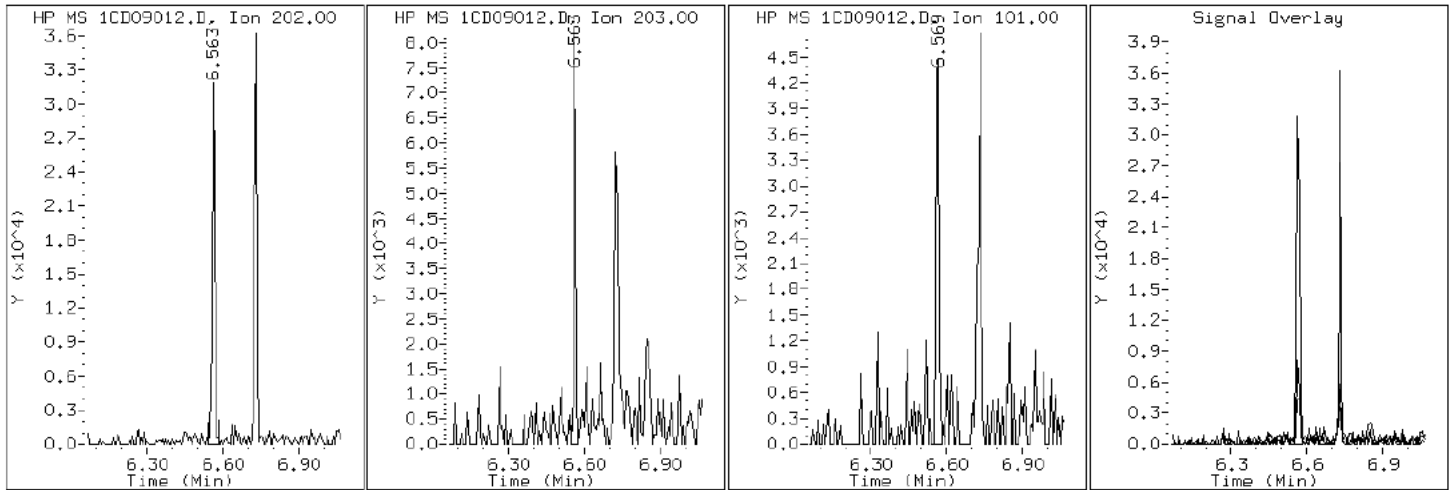
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

15 Fluoranthene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

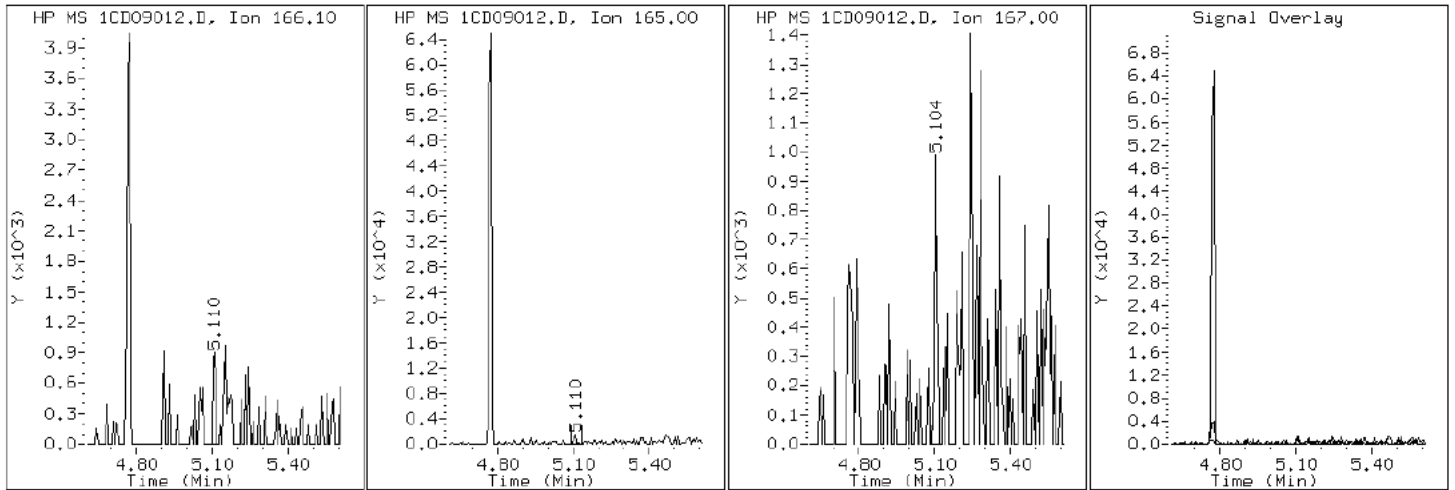
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

9 Fluorene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

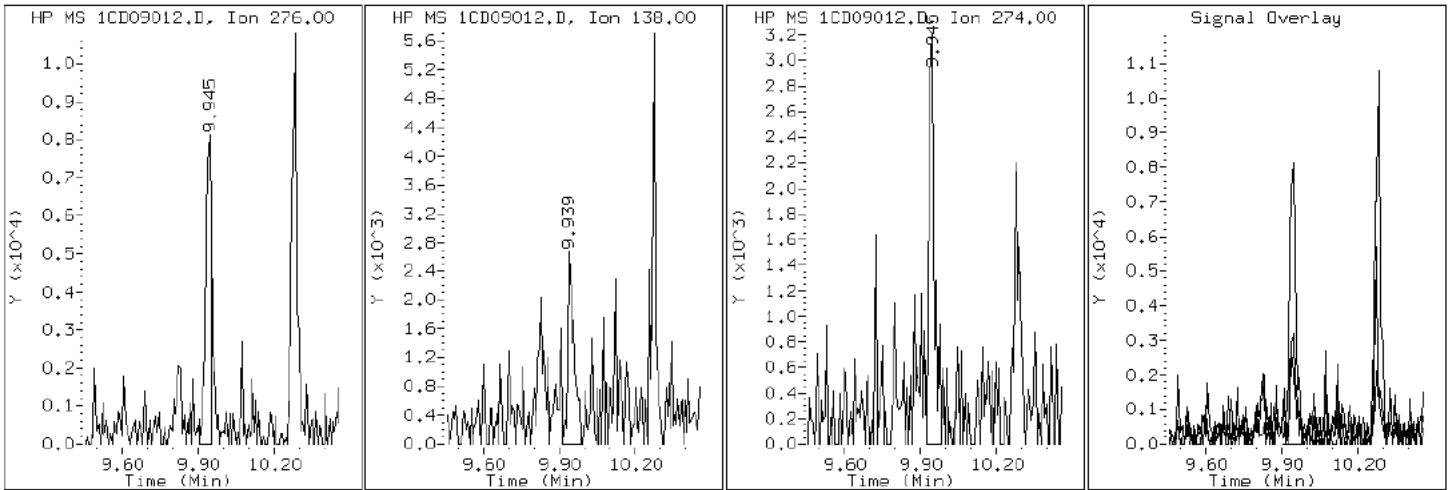
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

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



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

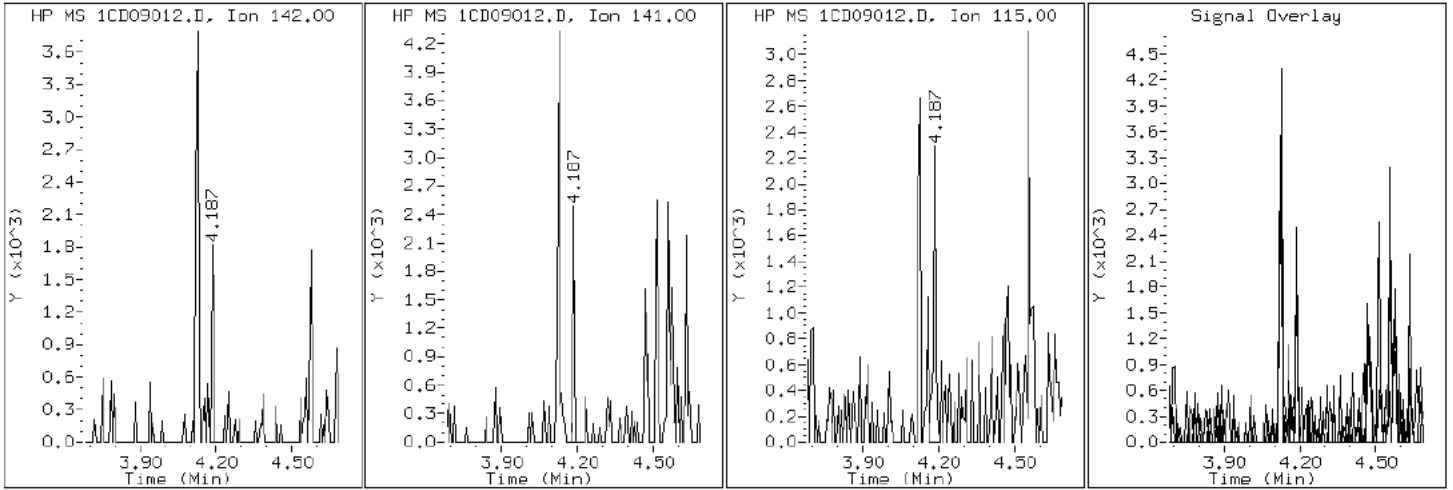
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD09012.D

Date: 09-APR-2013 14:36

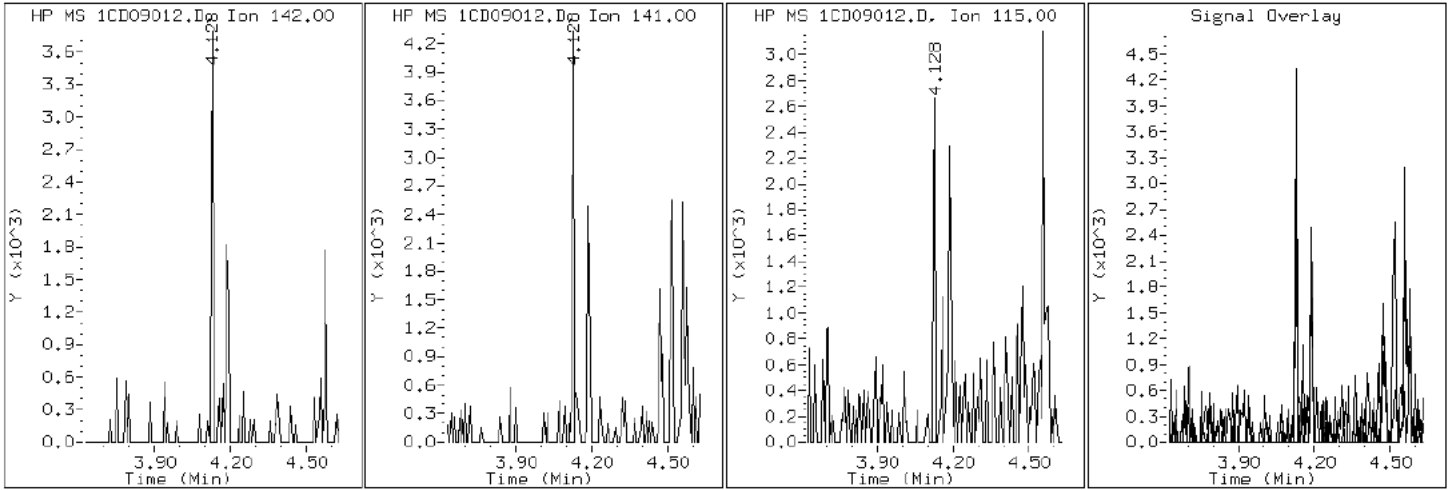
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

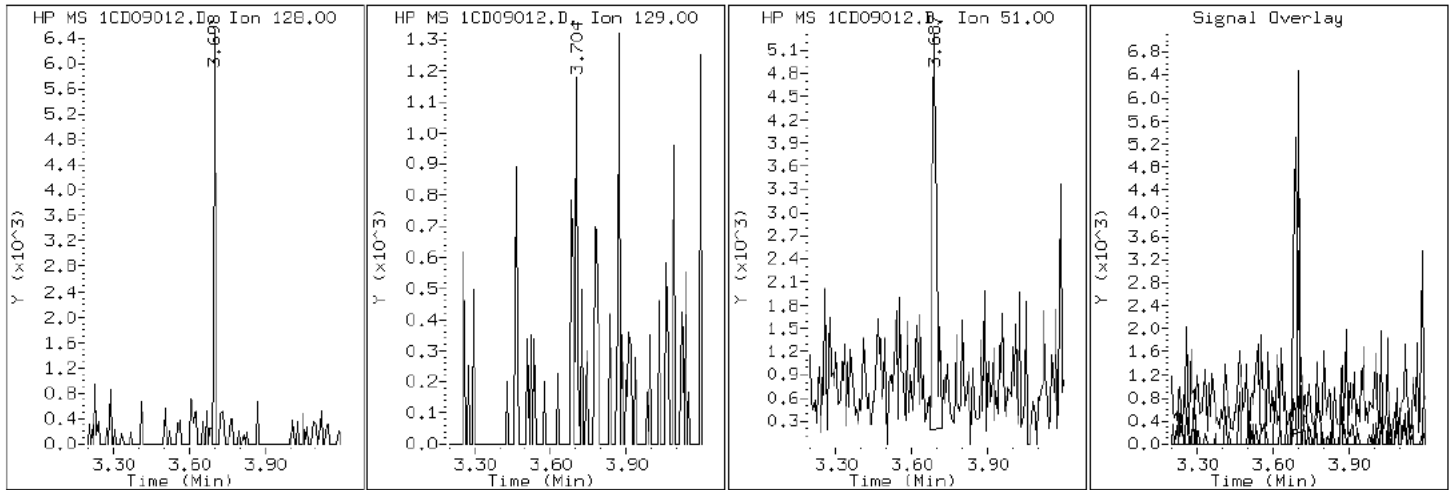
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

2 Naphthalene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

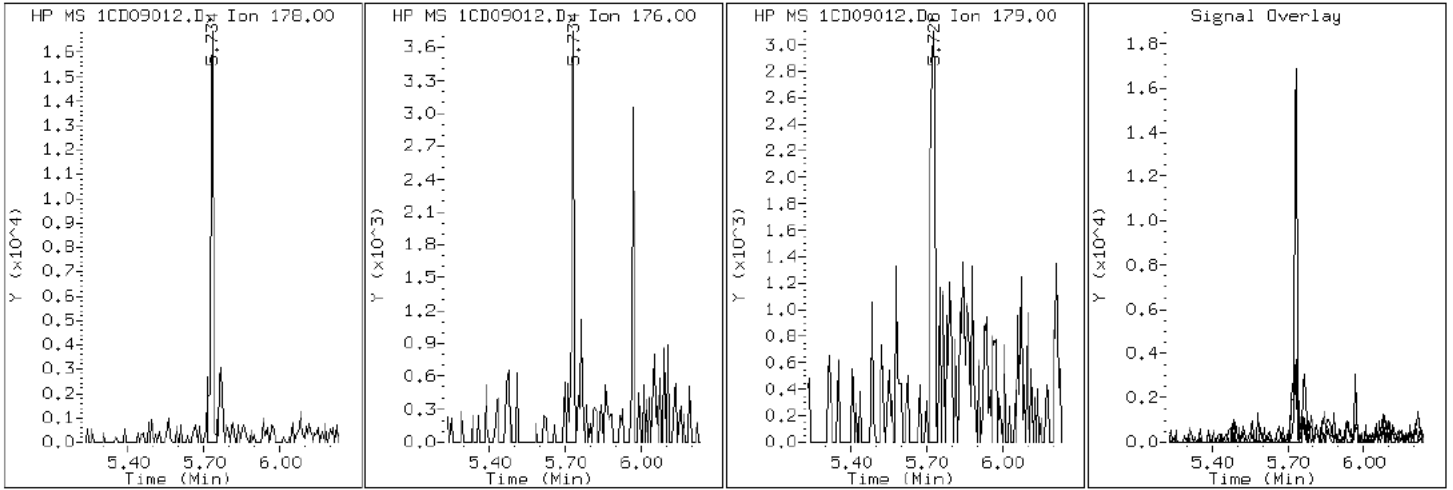
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

11 Phenanthrene



Data File: 1CD09012.D

Date: 09-APR-2013 14:36

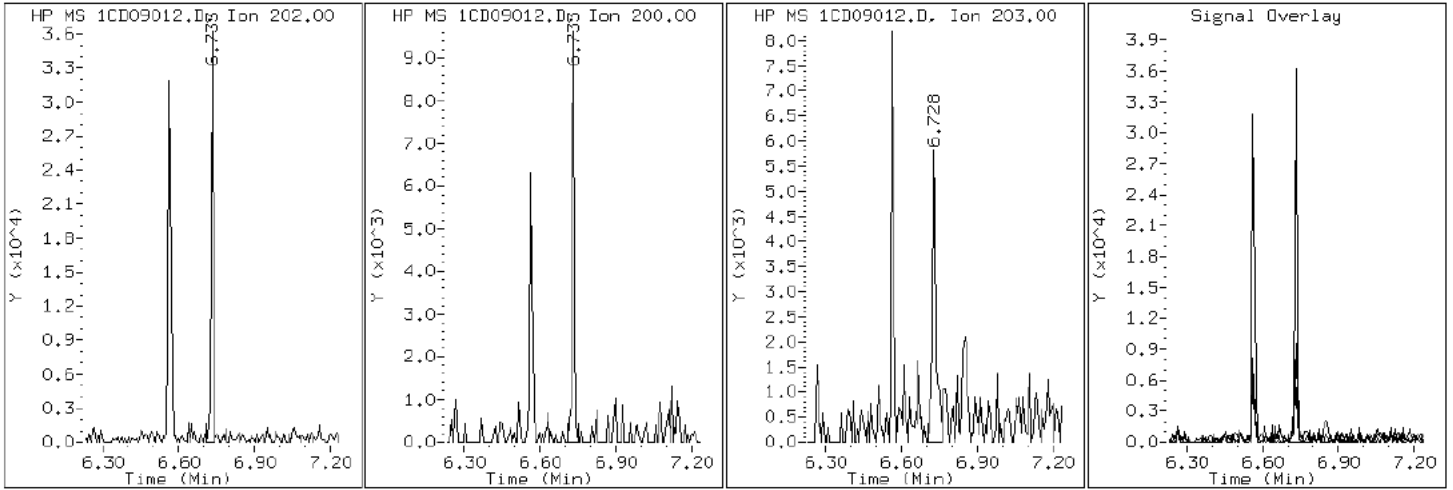
Client ID: CV0013C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88811-A-16-A

Operator: SCC

16 Pyrene

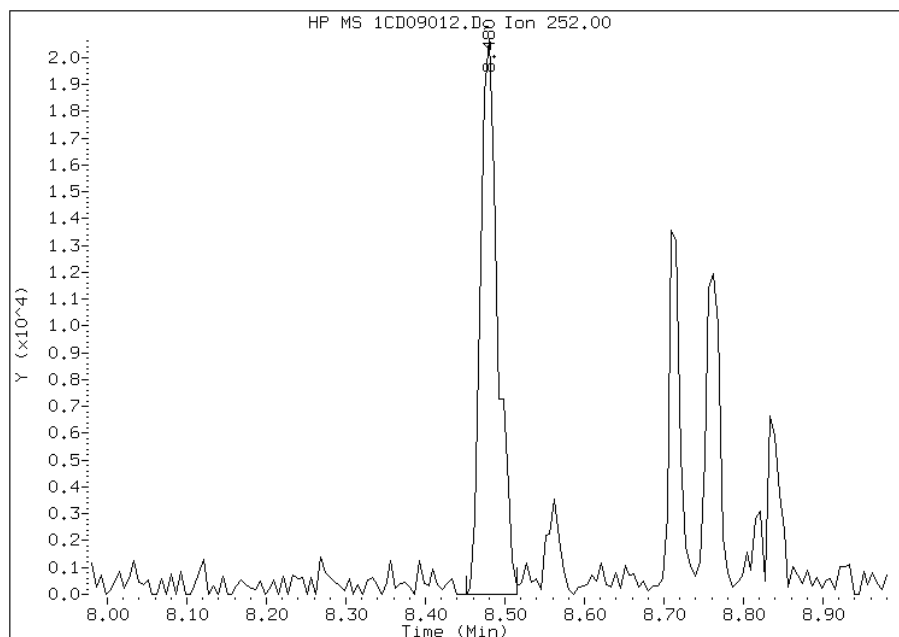


# Manual Integration Report

Data File: 1CD09012.D  
Inj. Date and Time: 09-APR-2013 14:36  
Instrument ID: BSMC5973.i  
Client ID: CV0013C-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/10/2013

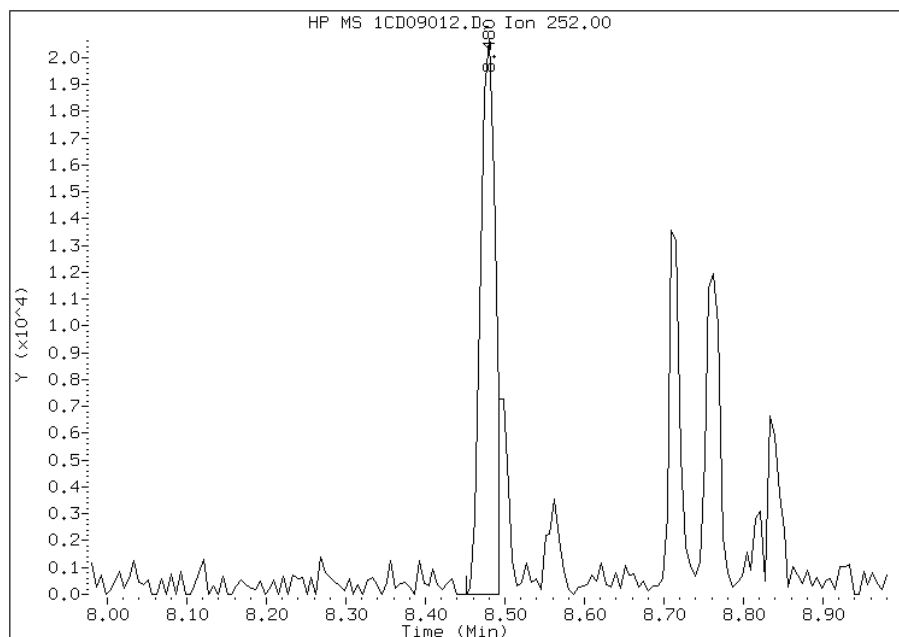
## Processing Integration Results

RT: 8.48  
Response: 31239  
Amount: 1  
Conc: 491



## Manual Integration Results

RT: 8.48  
Response: 26695  
Amount: 1  
Conc: 419



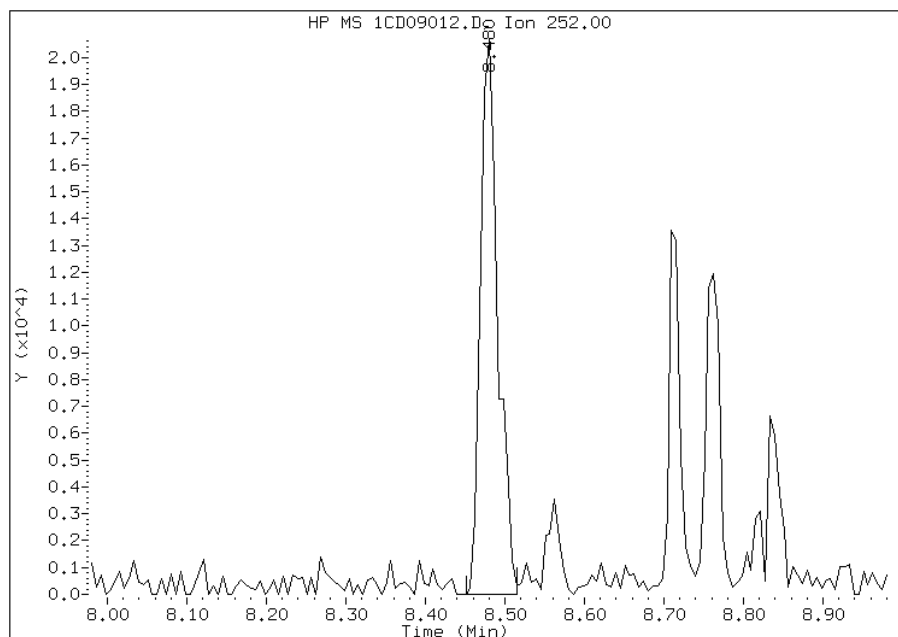
Manually Integrated By: cantins  
Modification Date: 10-Apr-2013 11:26  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD09012.D  
Inj. Date and Time: 09-APR-2013 14:36  
Instrument ID: BSMC5973.i  
Client ID: CV0013C-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/10/2013

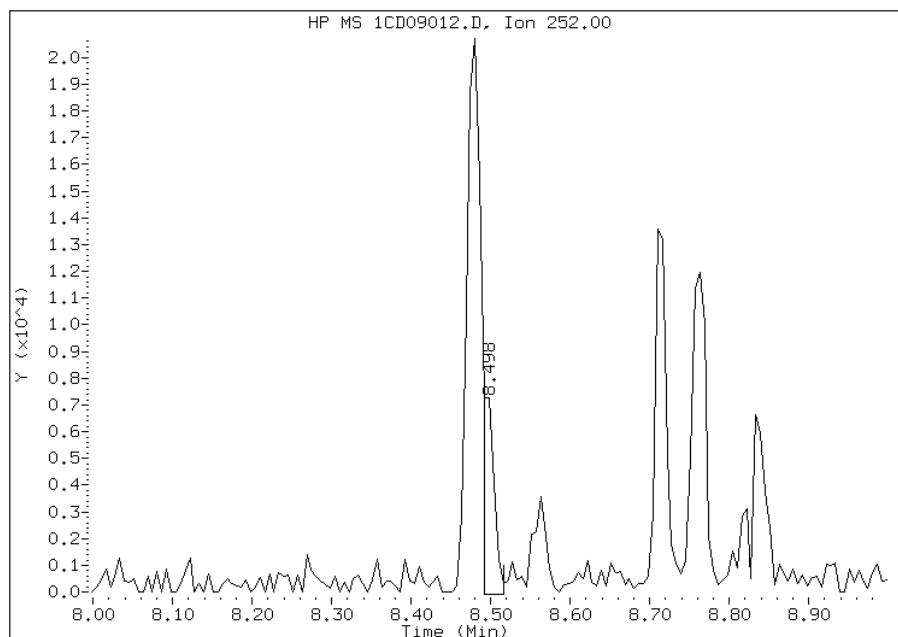
## Processing Integration Results

RT: 8.48  
Response: 31239  
Amount: 2  
Conc: 507



## Manual Integration Results

RT: 8.50  
Response: 7253  
Amount: 0  
Conc: 118



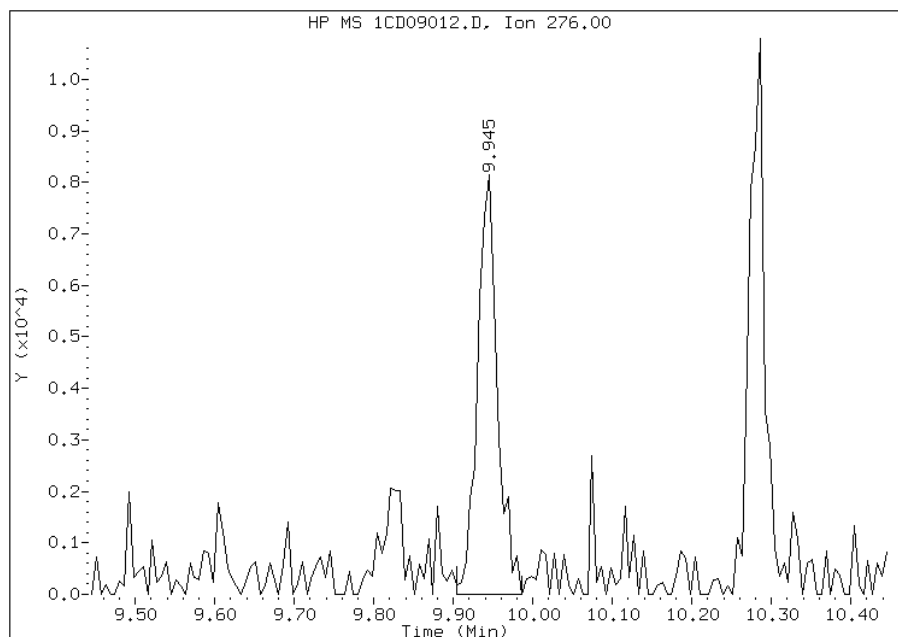
Manually Integrated By: cantins  
Modification Date: 10-Apr-2013 11:26  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD09012.D  
Inj. Date and Time: 09-APR-2013 14:36  
Instrument ID: BSMC5973.i  
Client ID: CV0013C-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/10/2013

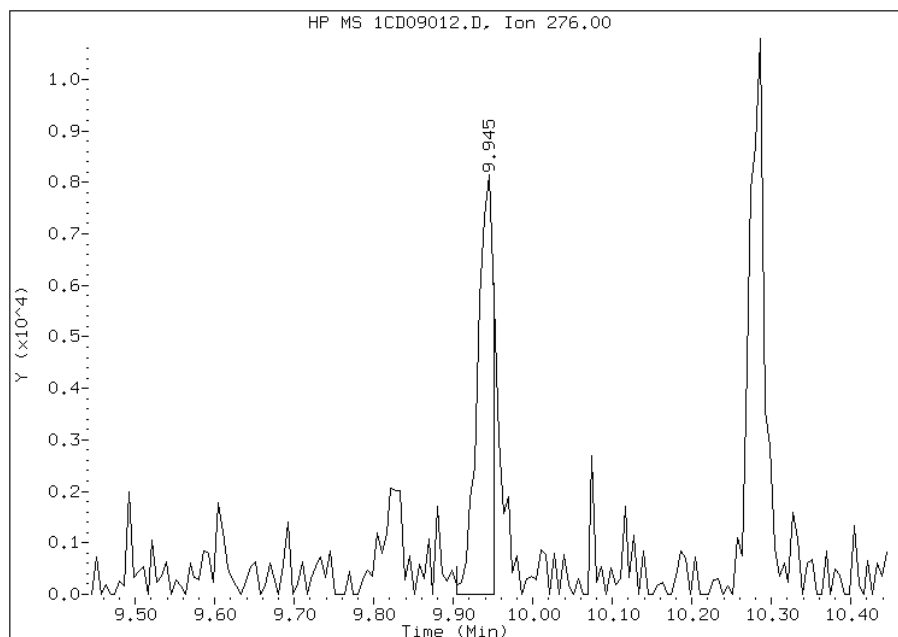
## Processing Integration Results

RT: 9.95  
Response: 14111  
Amount: 1  
Conc: 248



## Manual Integration Results

RT: 9.95  
Response: 11409  
Amount: 1  
Conc: 200



Manually Integrated By: cantins  
Modification Date: 10-Apr-2013 11:27  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013D-CS Lab Sample ID: 680-88811-17  
 Matrix: Solid Lab File ID: 1CD08010.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 10:07  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.97(g) Date Analyzed: 04/08/2013 15:17  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	53	J	130	25
208-96-8	Acenaphthylene	23	J	50	6.3
120-12-7	Anthracene	130		11	5.3
56-55-3	Benzo[a]anthracene	630		10	4.9
50-32-8	Benzo[a]pyrene	630		13	6.5
205-99-2	Benzo[b]fluoranthene	1000		15	7.7
191-24-2	Benzo[g,h,i]perylene	500		25	5.5
207-08-9	Benzo[k]fluoranthene	370		10	4.5
218-01-9	Chrysene	660		11	5.7
53-70-3	Dibenz(a,h)anthracene	180		25	5.2
206-44-0	Fluoranthene	1000		25	5.0
86-73-7	Fluorene	71		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	410		25	8.9
90-12-0	1-Methylnaphthalene	93		50	5.5
91-57-6	2-Methylnaphthalene	100		50	8.9
91-20-3	Naphthalene	89		50	5.5
85-01-8	Phenanthrene	600		10	4.9
129-00-0	Pyrene	950		25	4.7

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08010.D  
 Lab Smp Id: 680-88811-A-17-A Client Smp ID: CV0013D-CS  
 Inj Date : 08-APR-2013 15:17  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-17-A  
 Misc Info : 680-88811-A-17-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 10  
 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	14.970	Weight Extracted
M	20.335	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	408762	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	299951	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	632697	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.974	(1.043)	71737	7.67184	643.2981
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	701647	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	674169	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	11124	1.05953	88.8438
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	8756	1.22516	102.7321
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	7156	1.11278	93.3087
5 Acenaphthylene	152		4.692	4.686	(0.983)	3371	0.27154	22.7694
7 Acenaphthene	154		4.792	4.798	(1.004)	4883	0.63506	53.2513
9 Fluorene	166		5.116	5.115	(1.071)	8655	0.84438	70.8025
11 Phenanthrene	178		5.733	5.739	(1.002)	132740	7.20353	604.0298
12 Anthracene	178		5.768	5.768	(1.008)	28315	1.51582	127.1044

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.880	5.880	(1.028)	18285	1.14255	95.8048
15 Fluoranthene	202	6.568	6.568	(1.148)	248160	12.1944	1022.5205
16 Pyrene	202	6.739	6.739	(0.880)	219543	11.2956	947.1571
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	149137	7.47138	626.4893
19 Chrysene	228	7.674	7.674	(1.002)	157838	7.89432	661.9536
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	234286	12.2925	1030.7461(M)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.964)	81094	4.39920	368.8813(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	135226	7.53604	631.9110
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	83608	4.90562	411.3454(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	34004	2.15981	181.1038
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	104406	6.00216	503.2925

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD08010.D

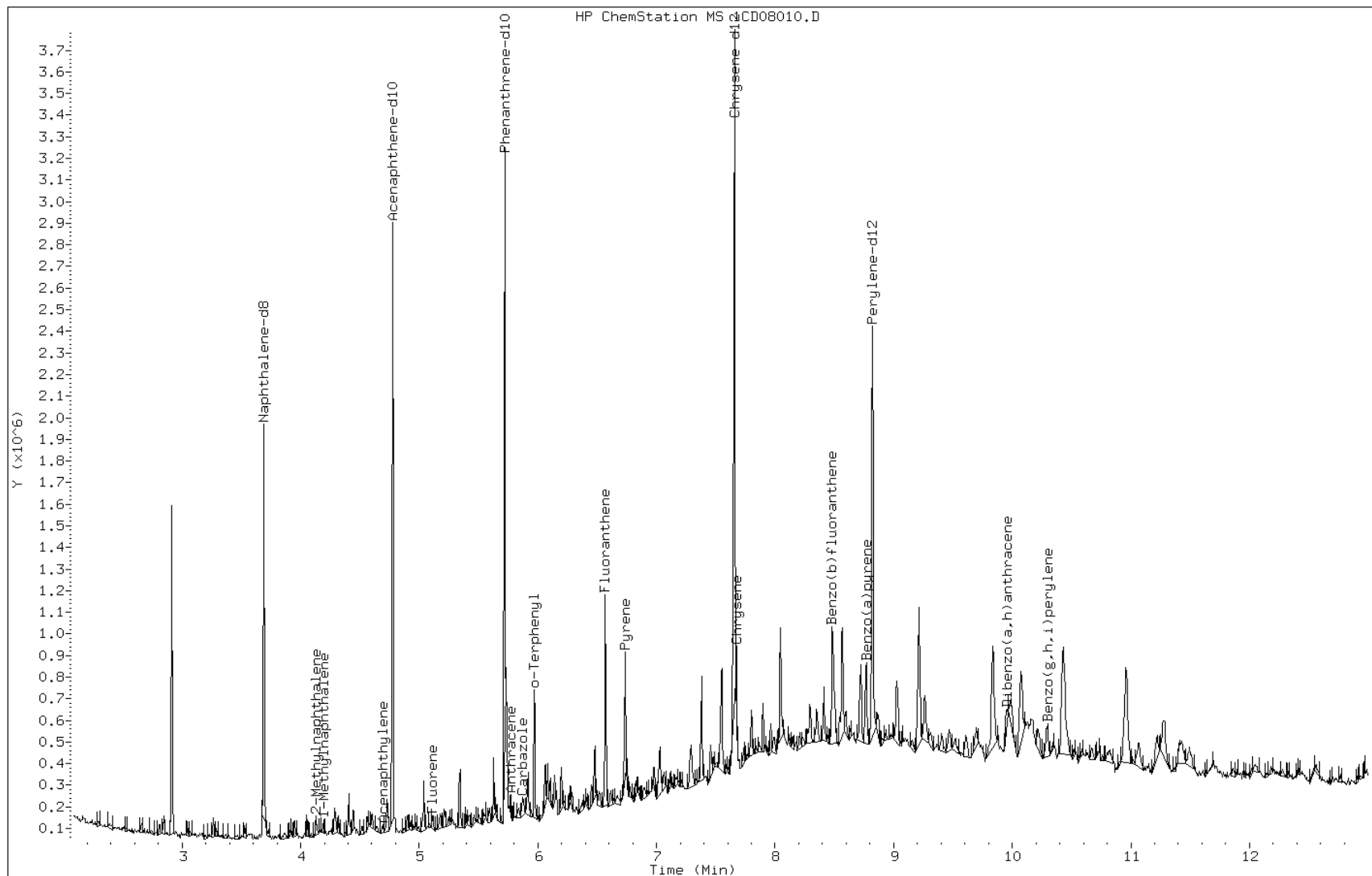
Date: 08-APR-2013 15:17

Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

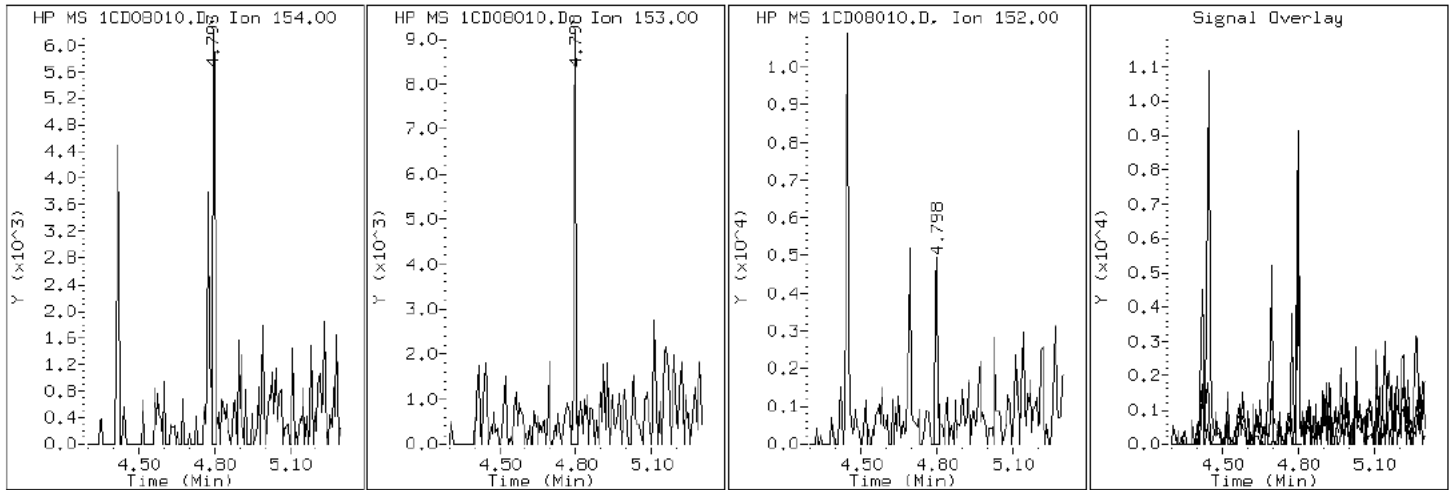
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

7 Acenaphthene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

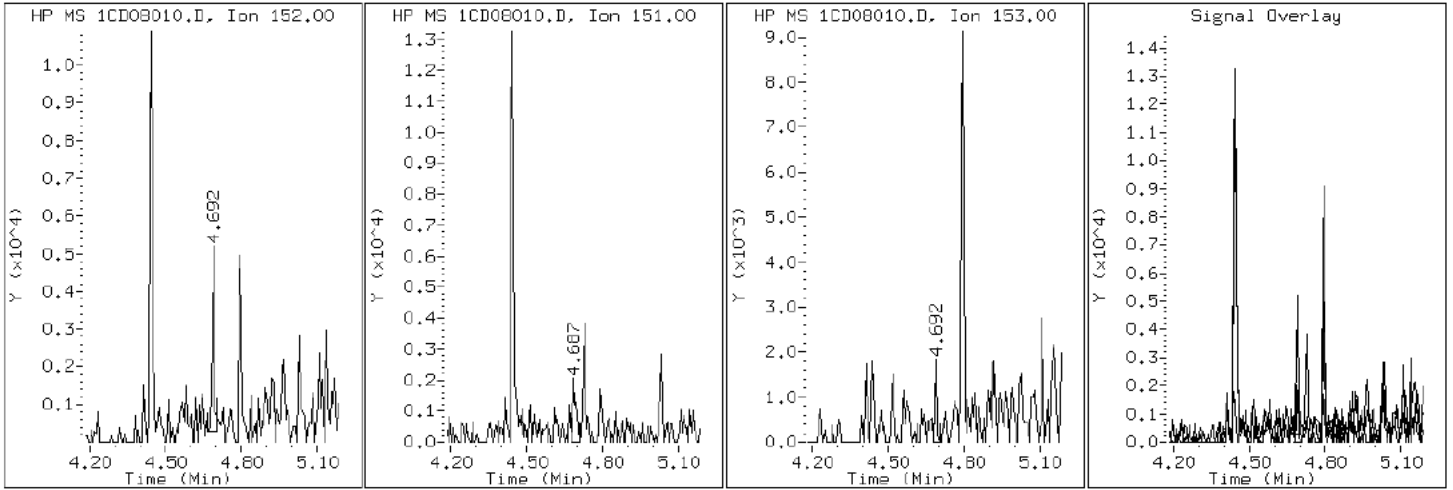
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

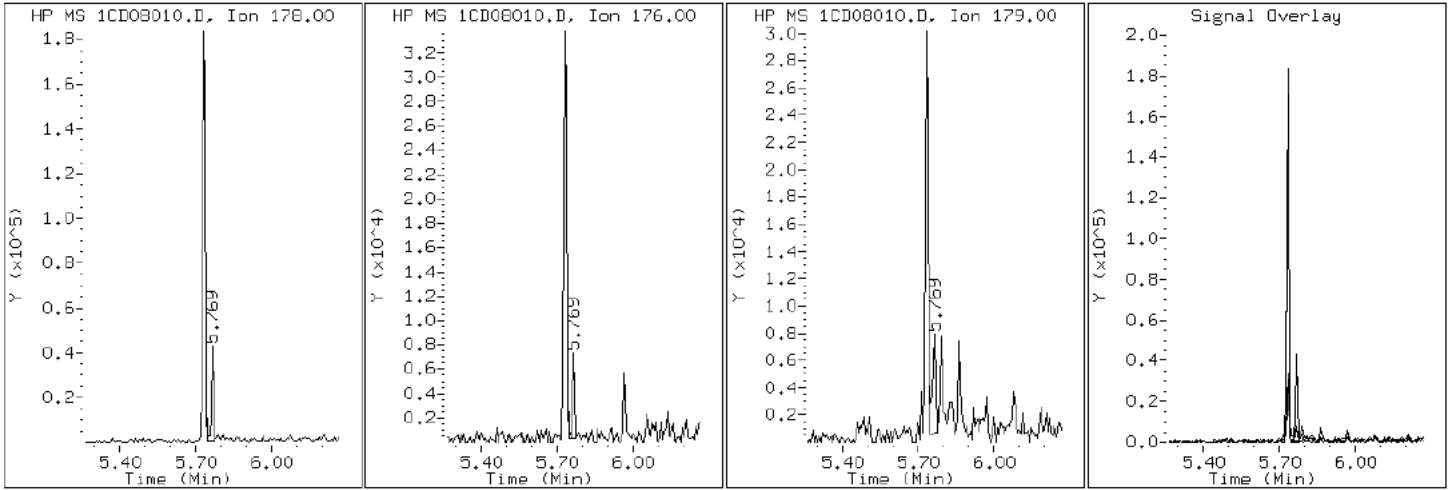
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

12 Anthracene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

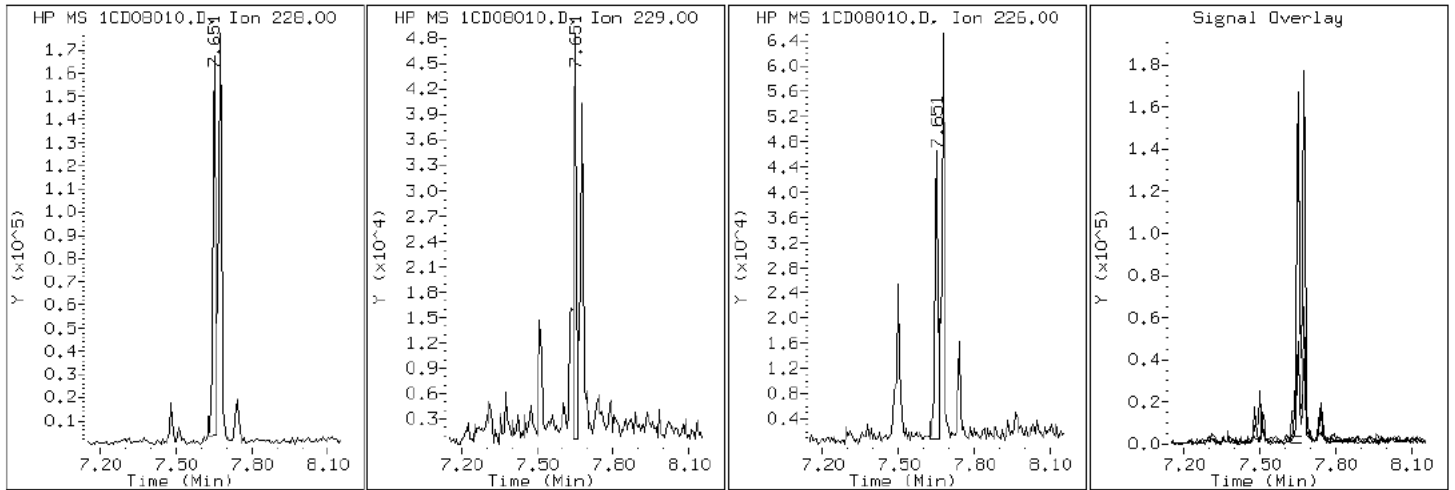
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

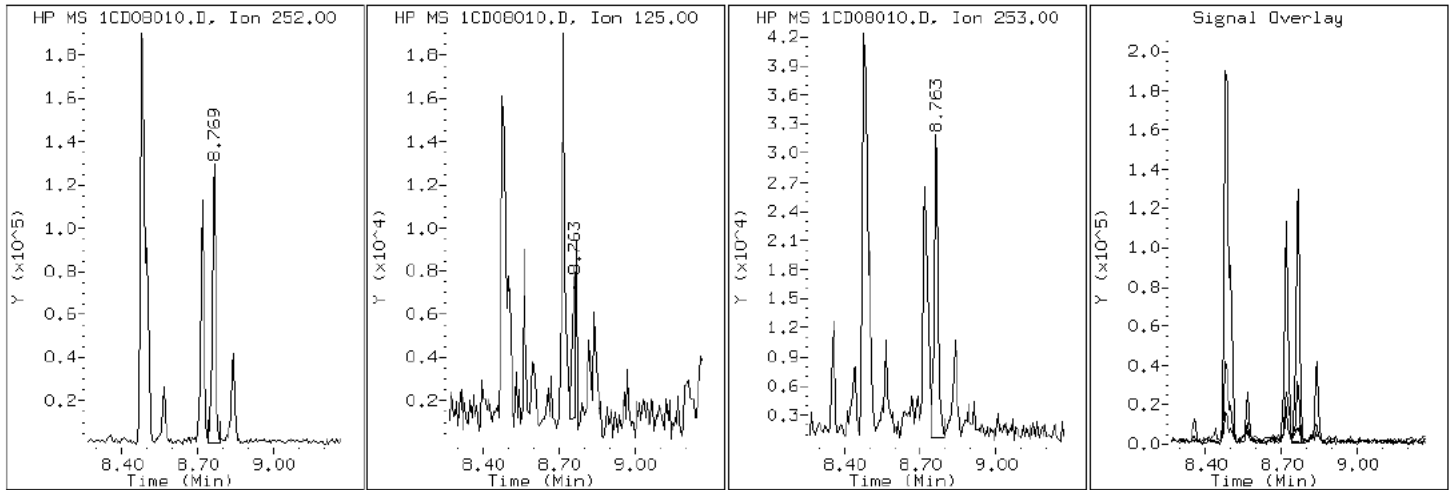
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

22 Benzo(a)pyrene





Data File: 1CD08010.D

Date: 08-APR-2013 15:17

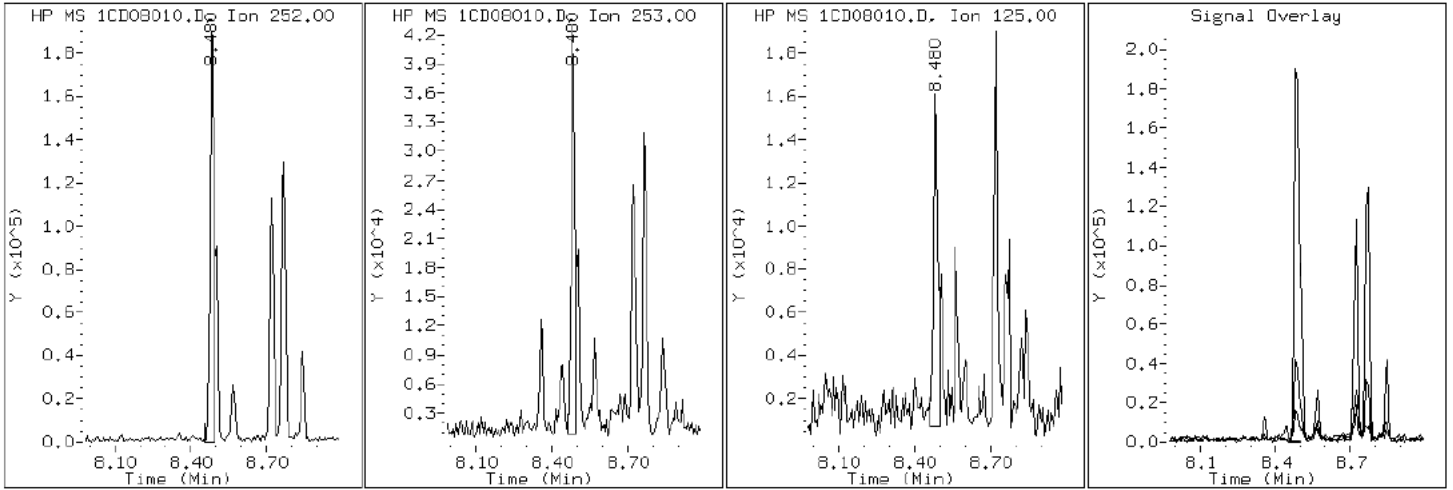
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

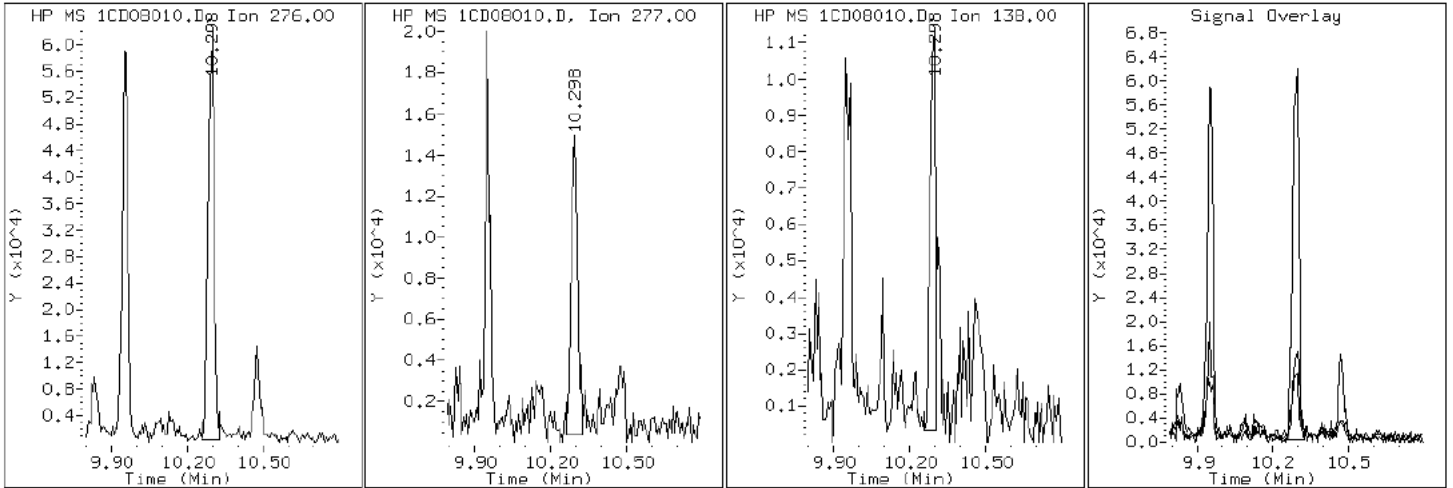
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

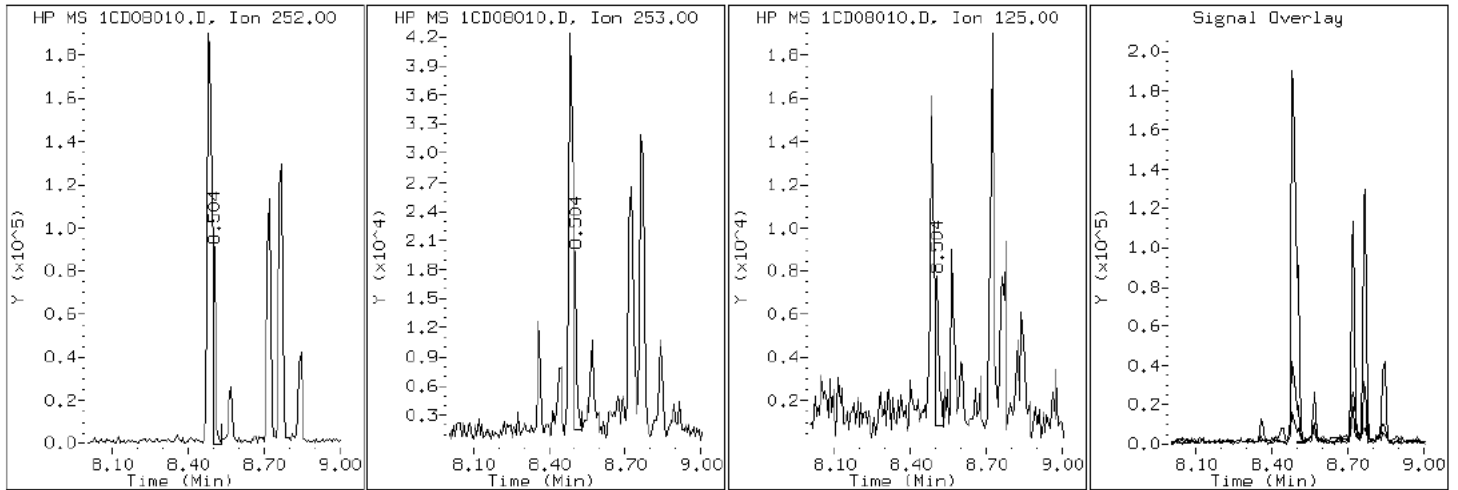
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

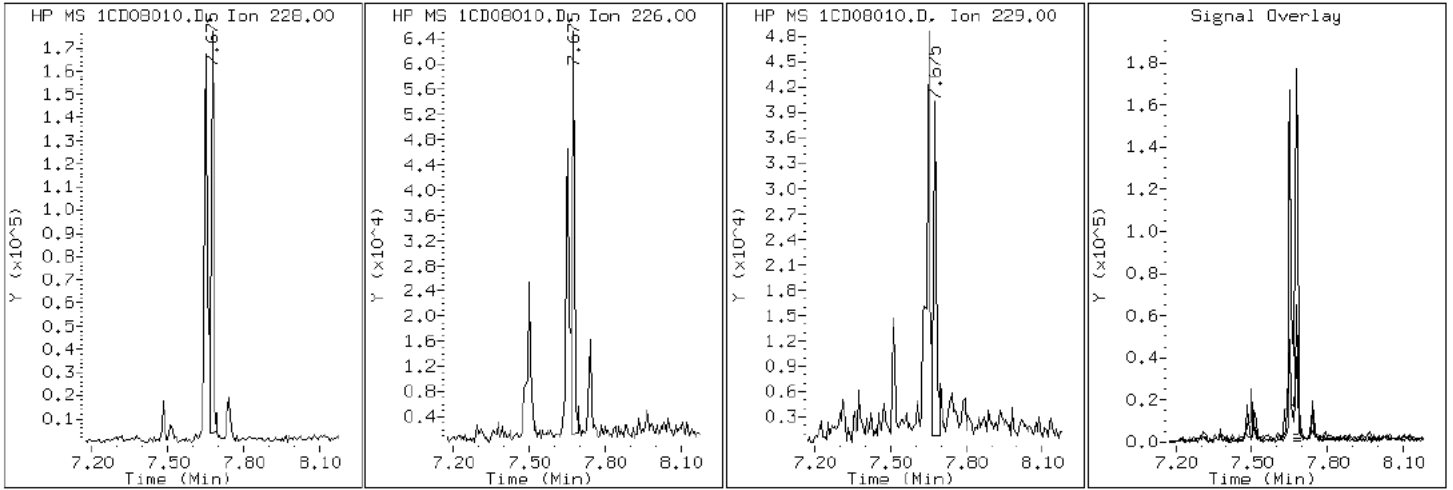
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

19 Chrysene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

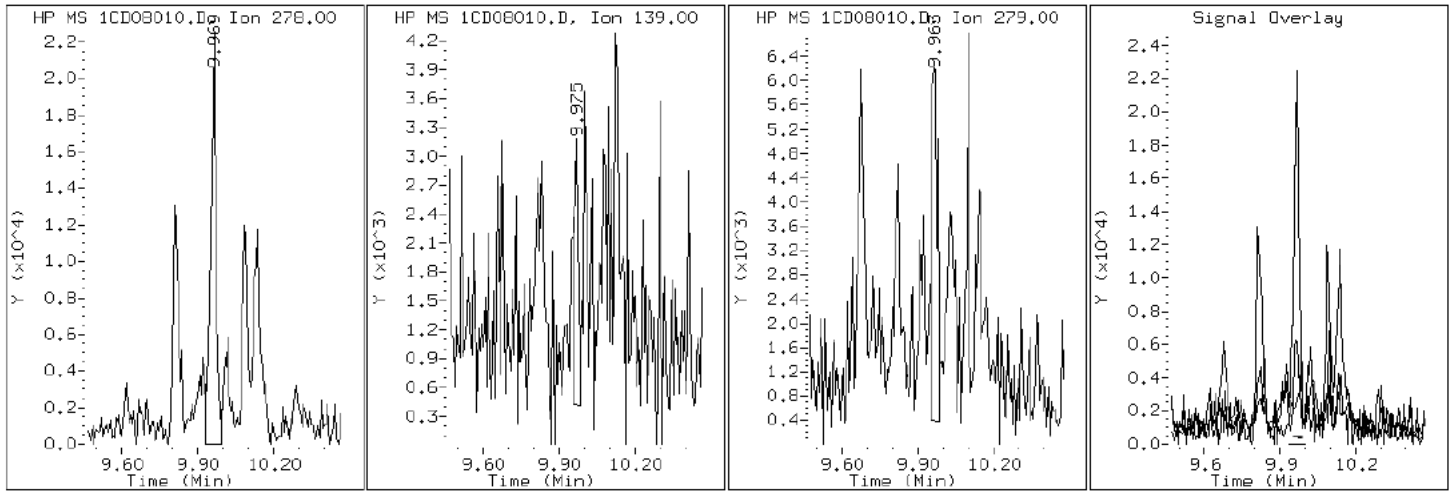
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

25 Dibenzo (a,h)anthracene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

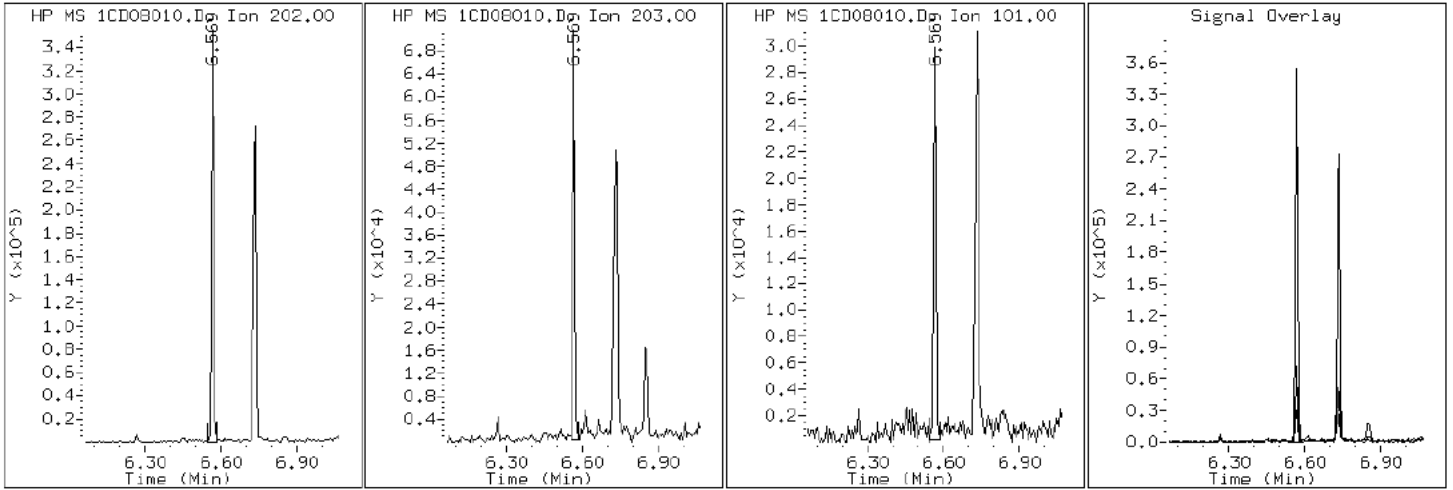
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

15 Fluoranthene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

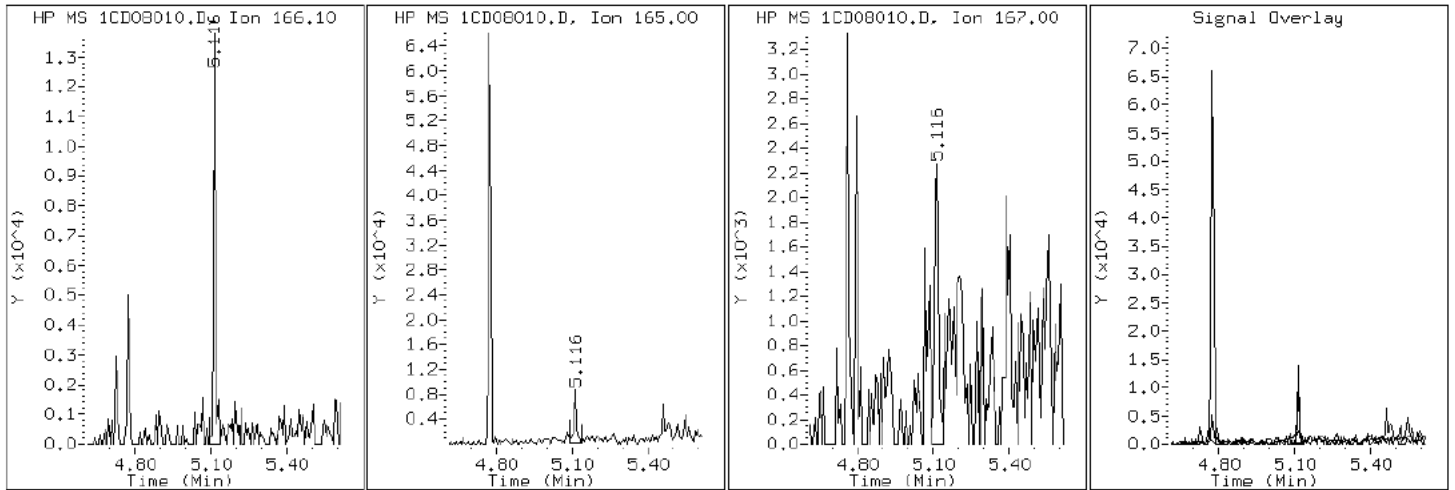
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

9 Fluorene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

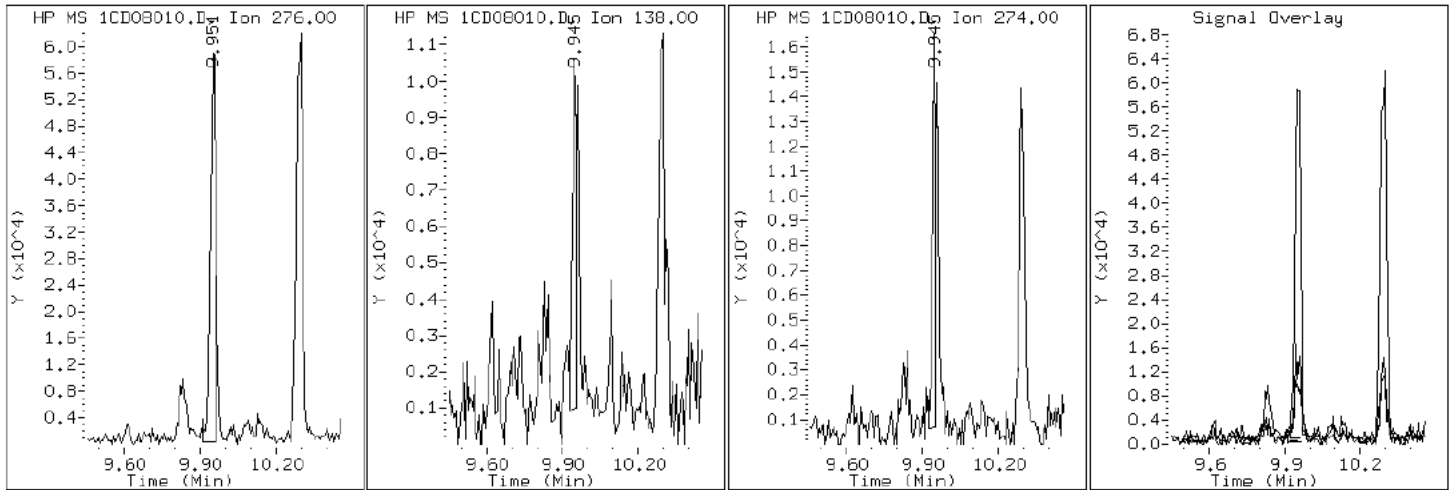
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

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





Data File: 1CD08010.D

Date: 08-APR-2013 15:17

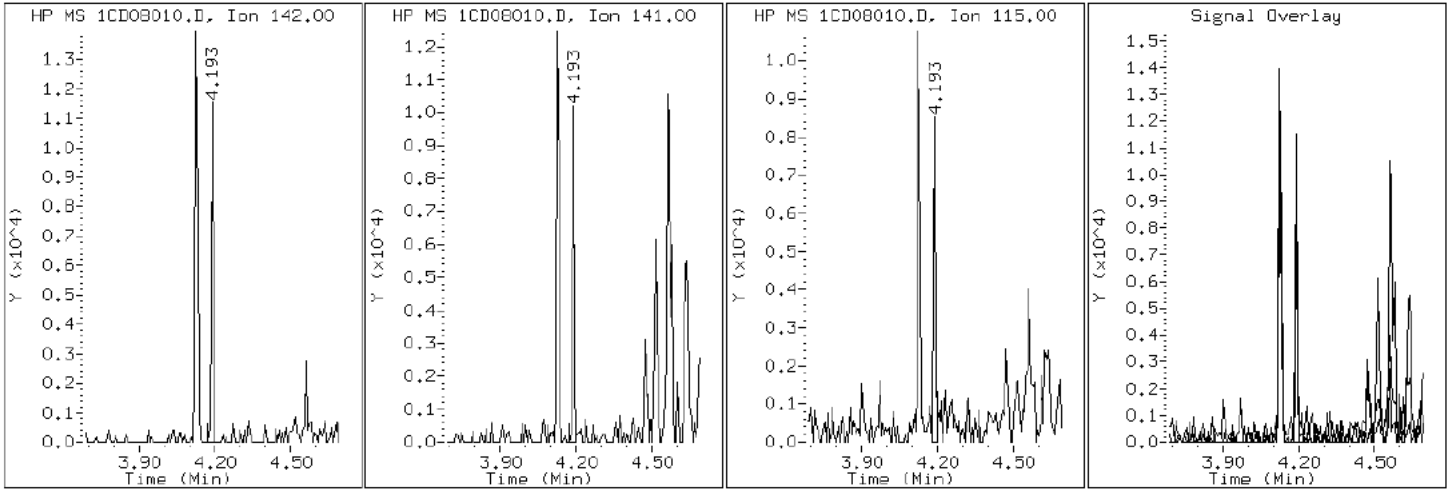
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

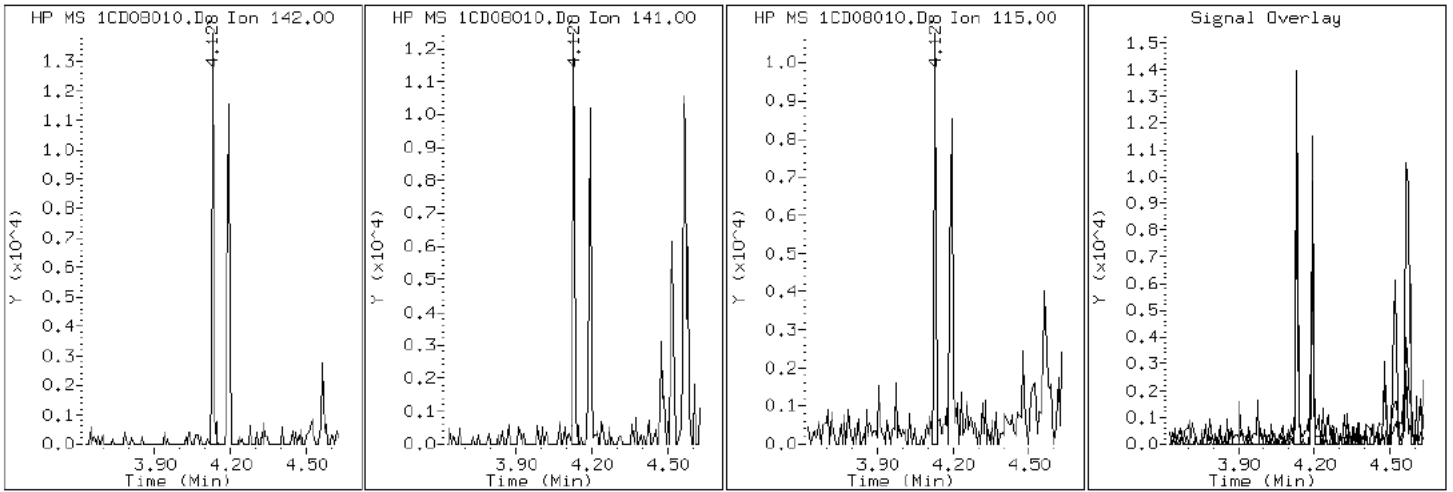
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

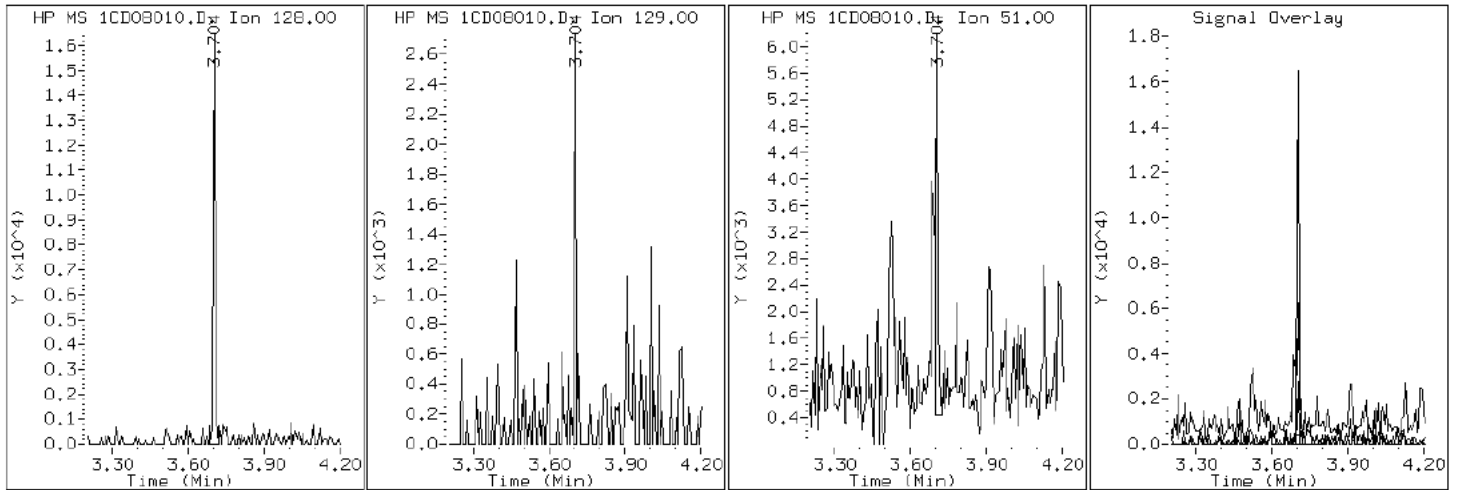
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

2 Naphthalene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

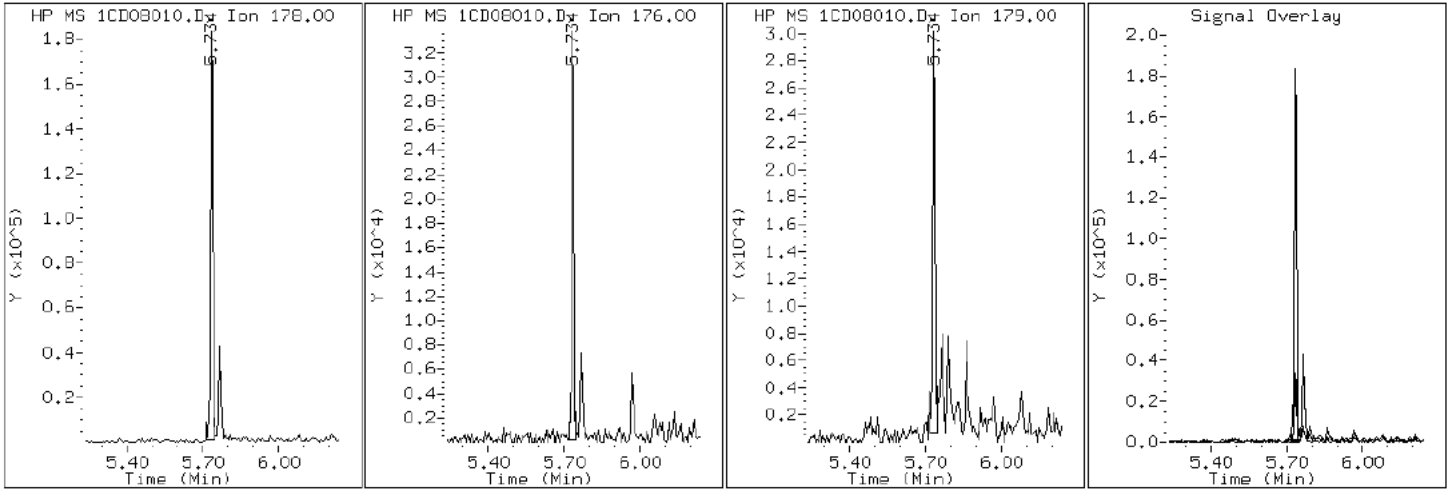
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

11 Phenanthrene



Data File: 1CD08010.D

Date: 08-APR-2013 15:17

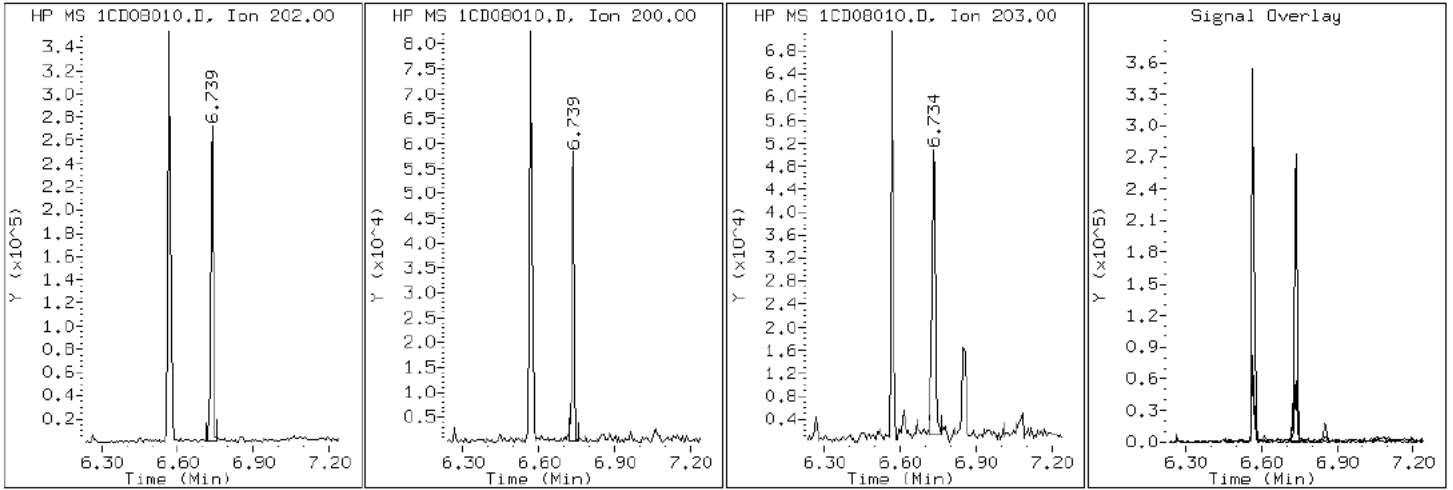
Client ID: CV0013D-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-17-A

Operator: TP

16 Pyrene

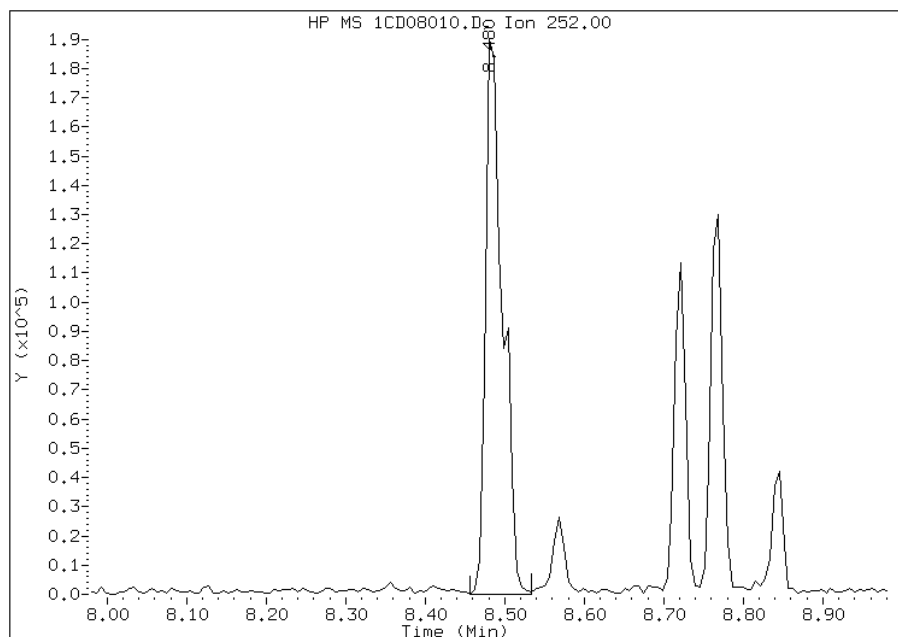


# Manual Integration Report

Data File: 1CD08010.D  
Inj. Date and Time: 08-APR-2013 15:17  
Instrument ID: BSMC5973.i  
Client ID: CV0013D-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

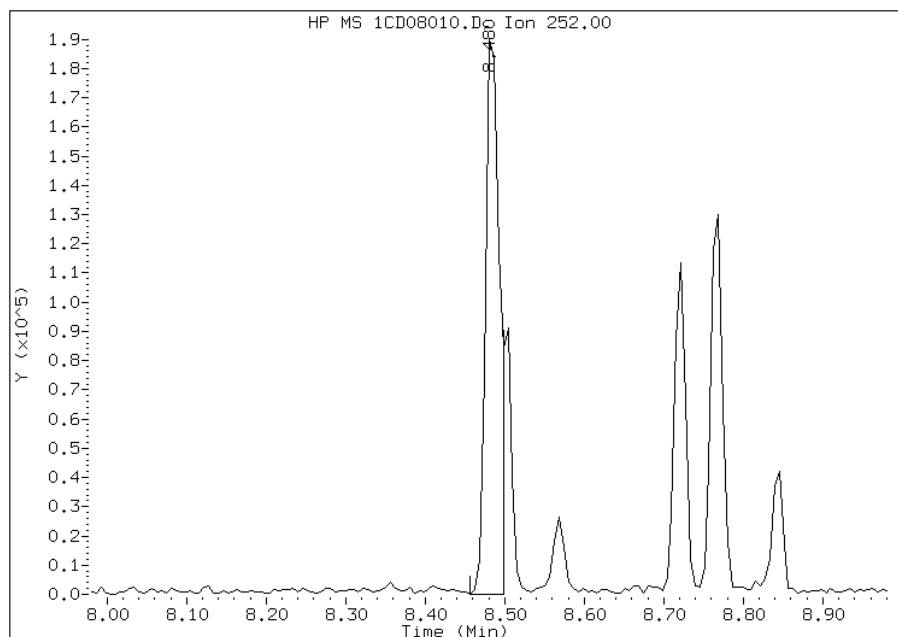
## Processing Integration Results

RT: 8.48  
Response: 284830  
Amount: 15  
Conc: 1253



## Manual Integration Results

RT: 8.48  
Response: 234286  
Amount: 12  
Conc: 1031



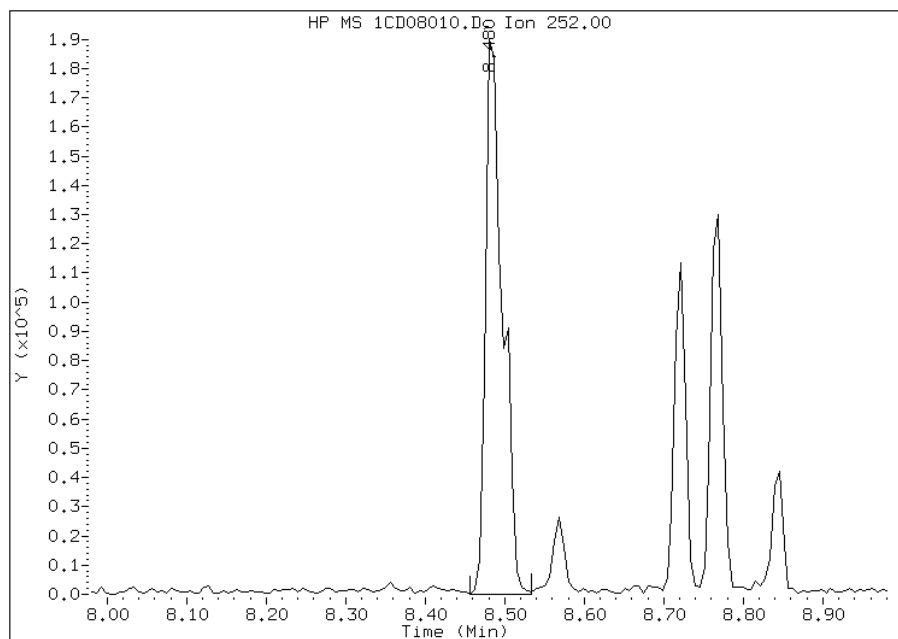
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:05  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08010.D  
Inj. Date and Time: 08-APR-2013 15:17  
Instrument ID: BSMC5973.i  
Client ID: CV0013D-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

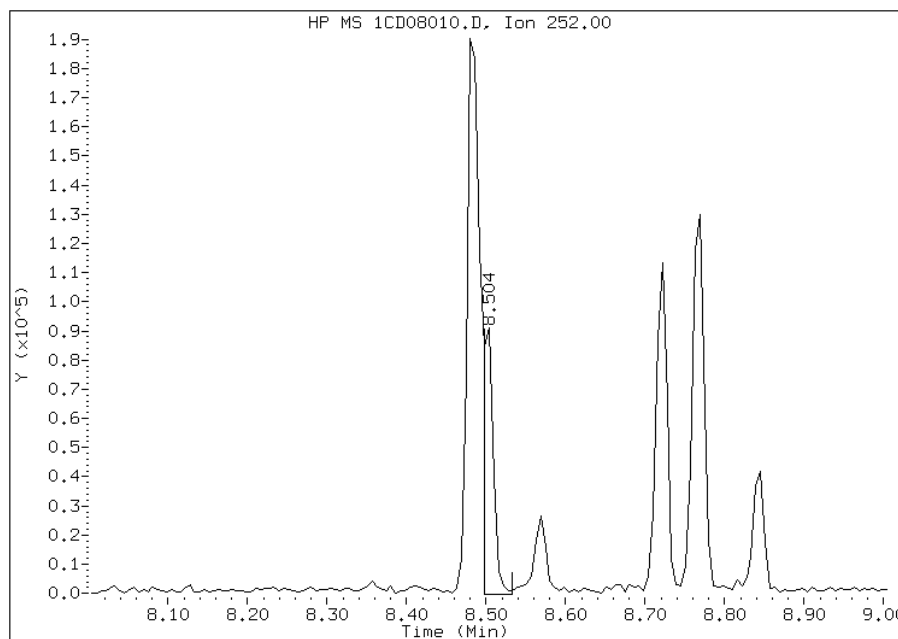
## Processing Integration Results

RT: 8.48  
Response: 284830  
Amount: 15  
Conc: 1296



## Manual Integration Results

RT: 8.50  
Response: 81094  
Amount: 4  
Conc: 369



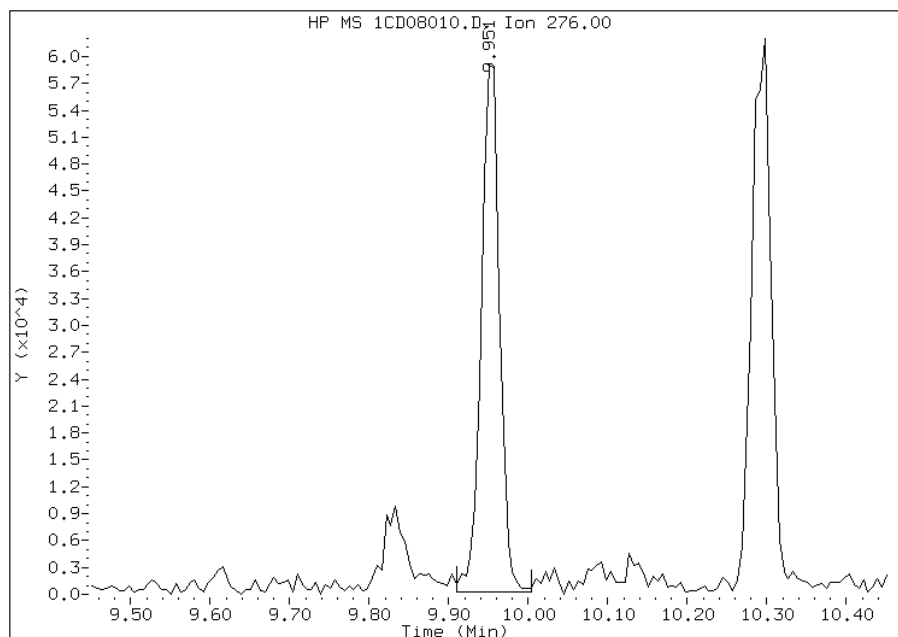
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:06  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08010.D  
Inj. Date and Time: 08-APR-2013 15:17  
Instrument ID: BSMC5973.i  
Client ID: CV0013D-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

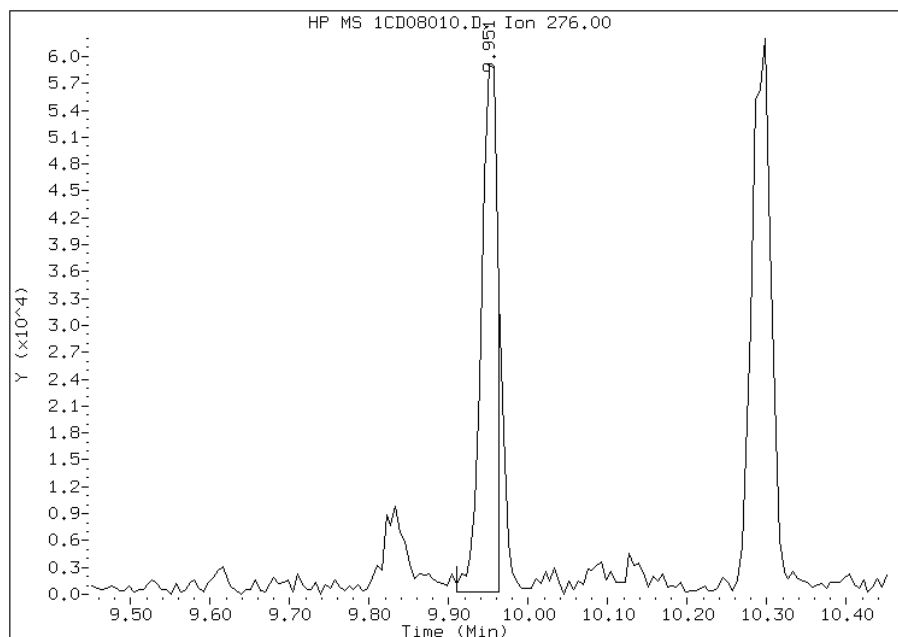
## Processing Integration Results

RT: 9.95  
Response: 93215  
Amount: 5  
Conc: 459



## Manual Integration Results

RT: 9.95  
Response: 83608  
Amount: 5  
Conc: 411



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:05  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013E-CS Lab Sample ID: 680-88811-18  
 Matrix: Solid Lab File ID: 1CD08011.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 10:15  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 15.04(g) Date Analyzed: 04/08/2013 15:35  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	120	25
208-96-8	Acenaphthylene	19	J	50	6.2
120-12-7	Anthracene	87		10	5.2
56-55-3	Benzo[a]anthracene	530		10	4.9
50-32-8	Benzo[a]pyrene	520		13	6.5
205-99-2	Benzo[b]fluoranthene	870		15	7.6
191-24-2	Benzo[g,h,i]perylene	440		25	5.5
207-08-9	Benzo[k]fluoranthene	310		10	4.5
218-01-9	Chrysene	490		11	5.6
53-70-3	Dibenz(a,h)anthracene	130		25	5.1
206-44-0	Fluoranthene	800		25	5.0
86-73-7	Fluorene	23	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	390		25	8.9
90-12-0	1-Methylnaphthalene	63		50	5.5
91-57-6	2-Methylnaphthalene	92		50	8.9
91-20-3	Naphthalene	52		50	5.5
85-01-8	Phenanthrene	400		10	4.9
129-00-0	Pyrene	680		25	4.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08011.D  
 Lab Smp Id: 680-88811-A-18-A Client Smp ID: CV0013E-CS  
 Inj Date : 08-APR-2013 15:35  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-18-A  
 Misc Info : 680-88811-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	20.141	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	419152	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	325020	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	616779	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	70044	7.68294	639.6661
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	693399	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	644230	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	6756	0.62754	52.2477
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	8132	1.10964	92.3867
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	4958	0.75187	62.5994
5 Acenaphthylene	152		4.692	4.686	(0.983)	3077	0.22874	19.0446
7 Acenaphthene	154		4.792	4.798	(1.004)	3110	0.37328	31.0782(Q)
9 Fluorene	166		5.116	5.115	(1.071)	3128	0.28163	23.4477(Q)
11 Phenanthrene	178		5.733	5.739	(1.002)	87345	4.86237	404.8307
12 Anthracene	178		5.769	5.768	(1.008)	19126	1.05032	87.4474

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.874	5.880	(1.027)	11711	0.75065	62.4979
15 Fluoranthene	202	6.568	6.568	(1.148)	191109	9.63329	802.0479
16 Pyrene	202	6.739	6.739	(0.880)	157192	8.18381	681.3669
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	126019	6.40798	533.5154
19 Chrysene	228	7.674	7.674	(1.002)	117430	5.94316	494.8154
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	190832	10.4778	872.3627(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	65433	3.71458	309.2682(M)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	107259	6.25525	520.7988
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	77116	4.73498	394.2247(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	22838	1.51800	126.3852
26 Benzo(g,h,i)perylene	276	10.292	10.297	(1.167)	88739	5.33856	444.4778

QC Flag Legend

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

Data File: 1CD08011.D

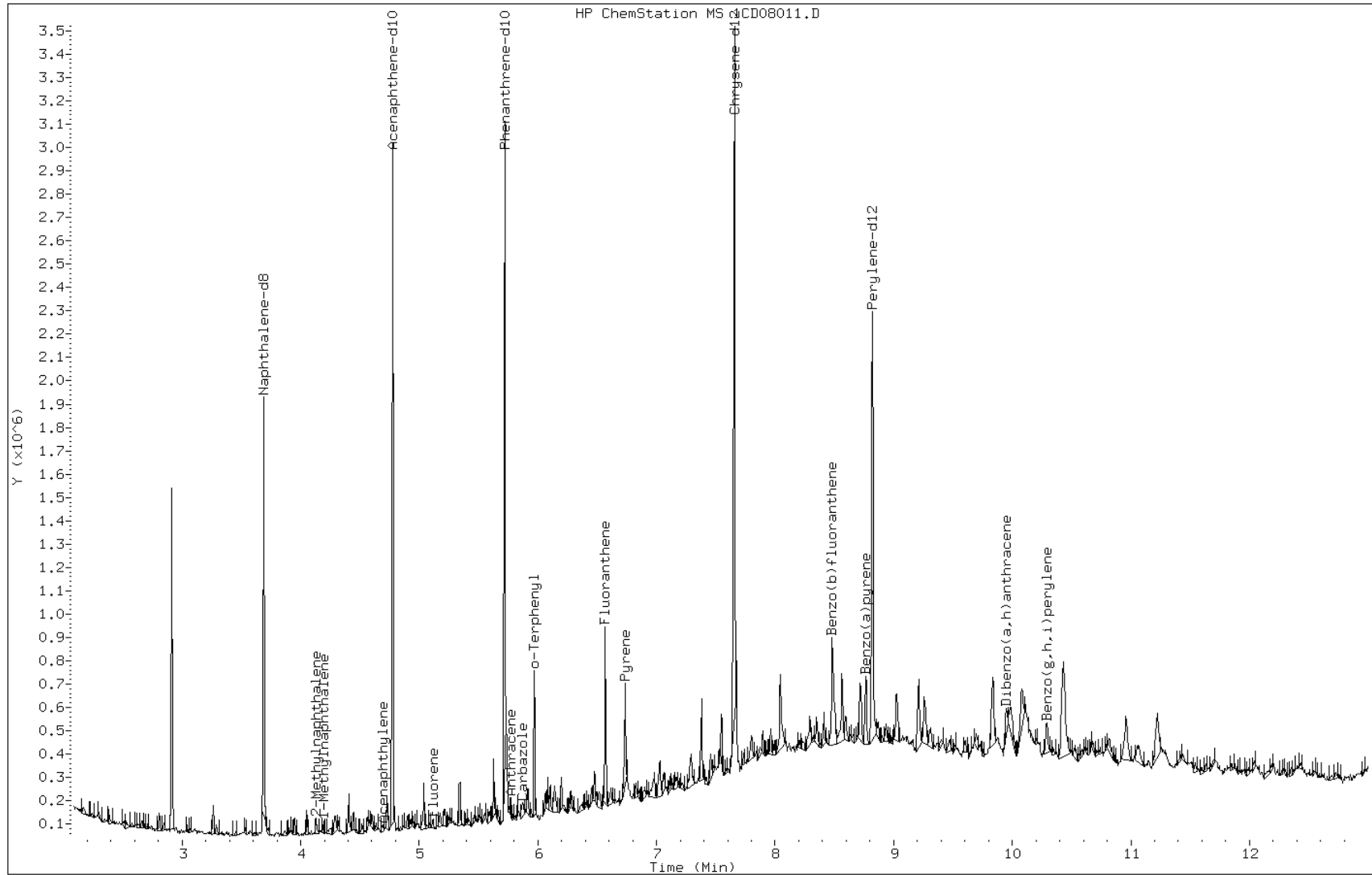
Date: 08-APR-2013 15:35

Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

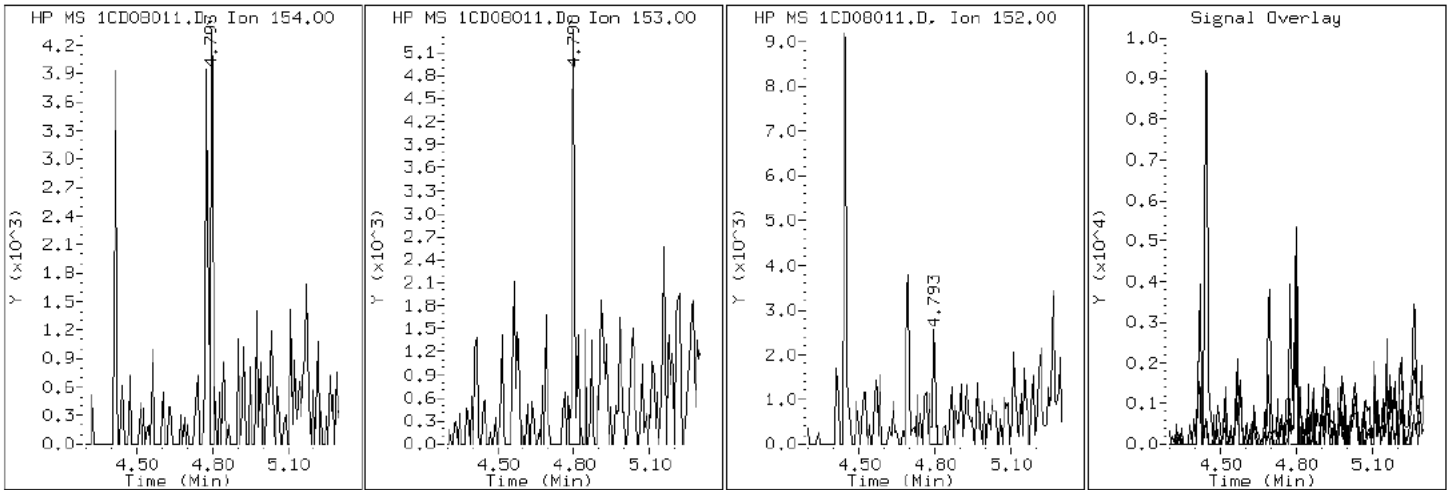
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

7 Acenaphthene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

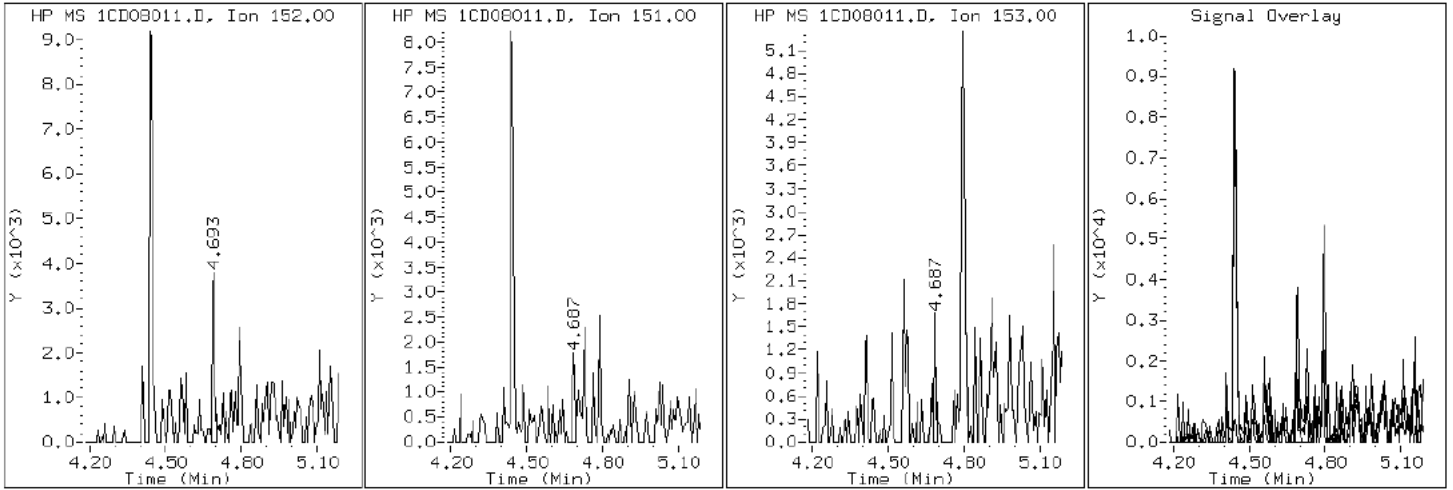
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

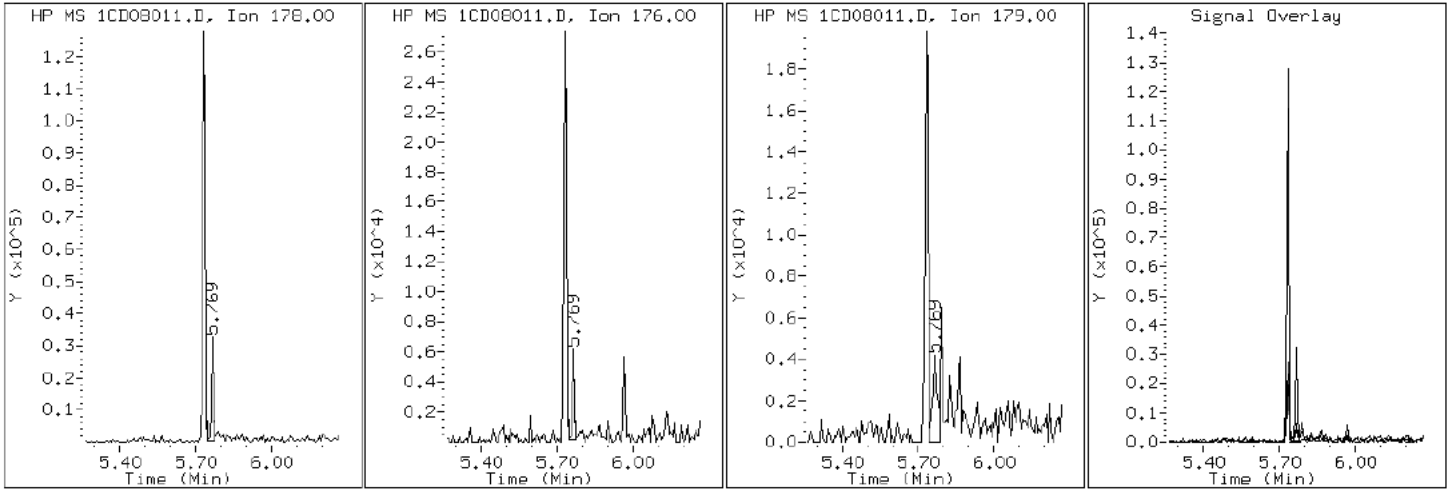
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

12 Anthracene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

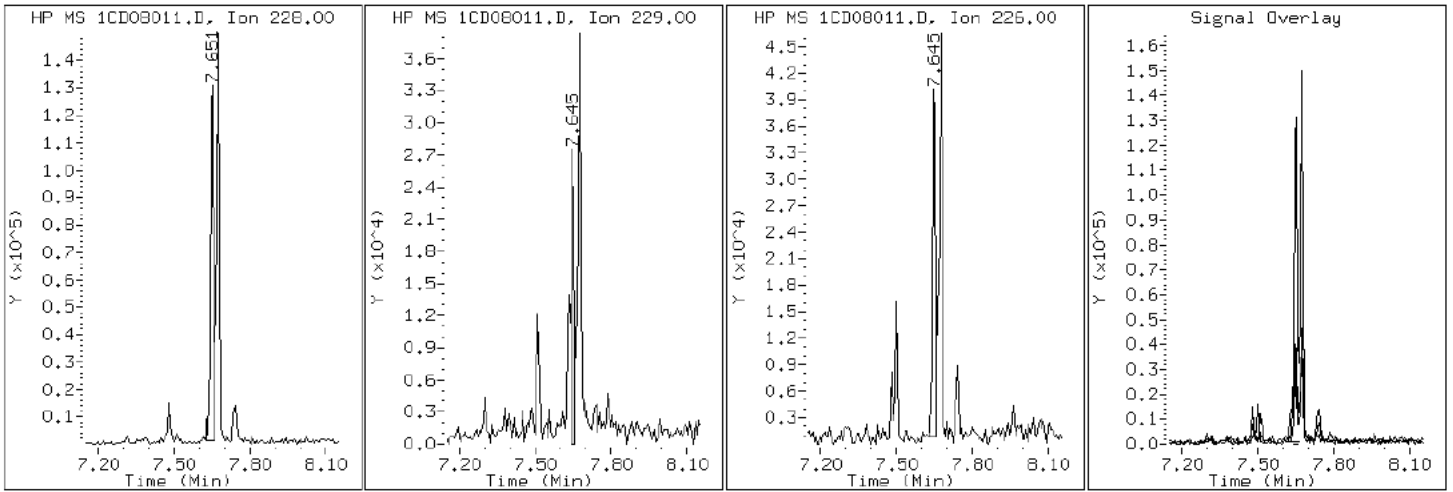
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

17 Benzo(a)anthracene





Data File: 1CD08011.D

Date: 08-APR-2013 15:35

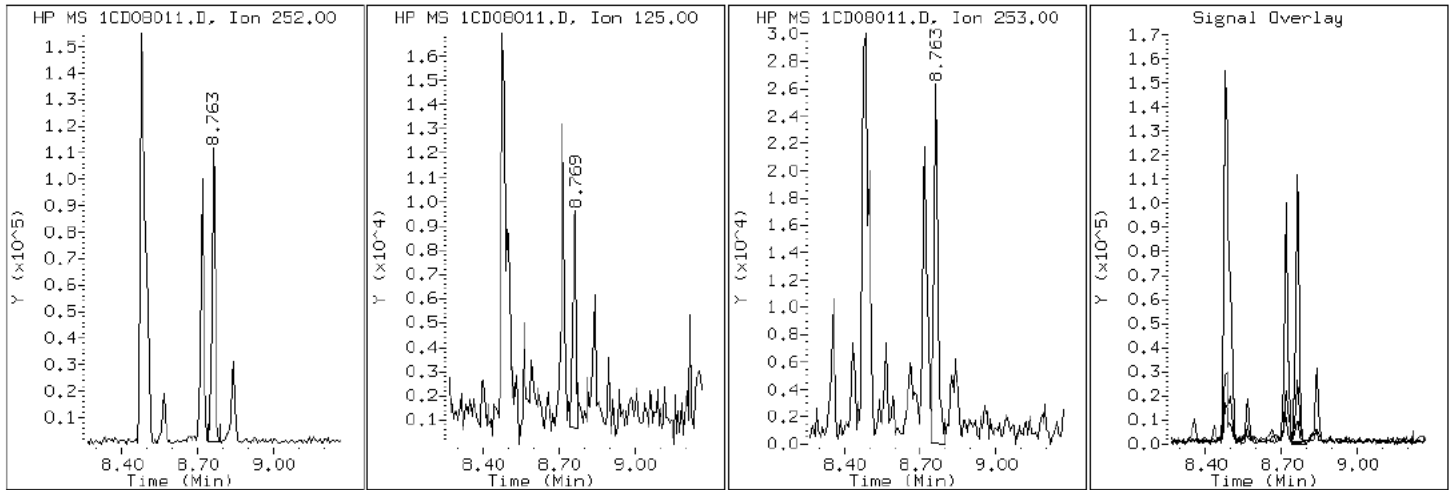
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

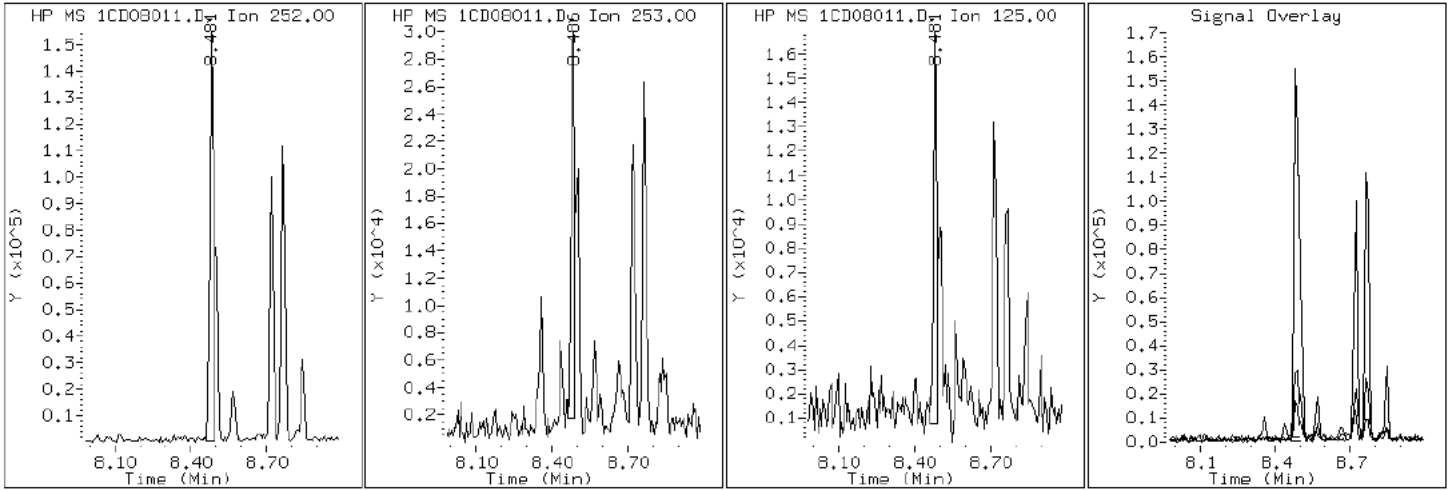
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

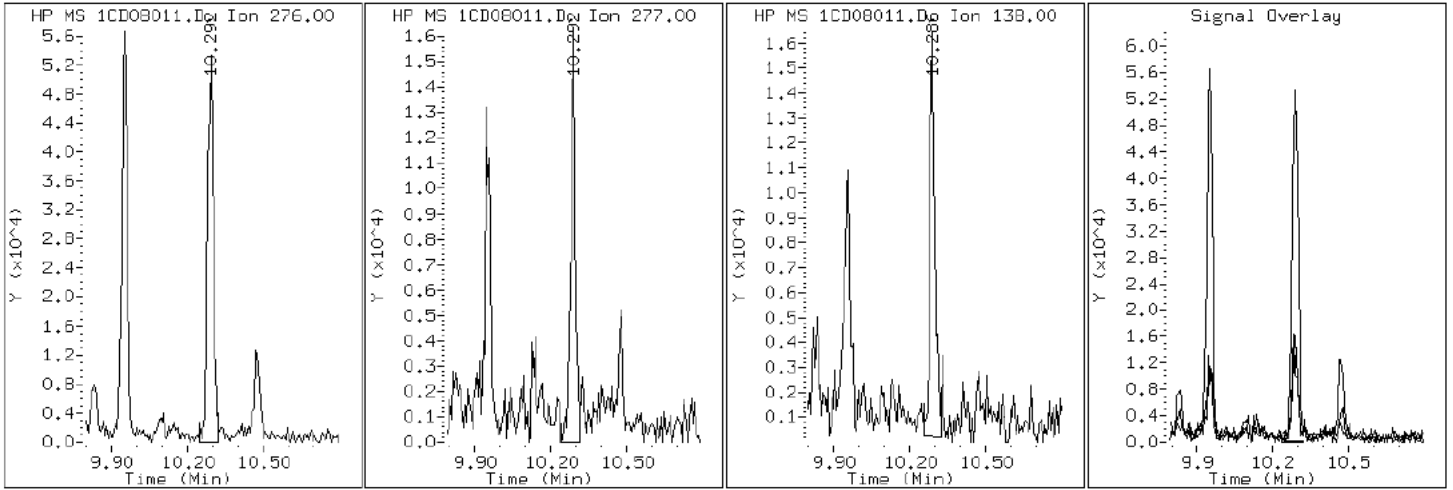
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

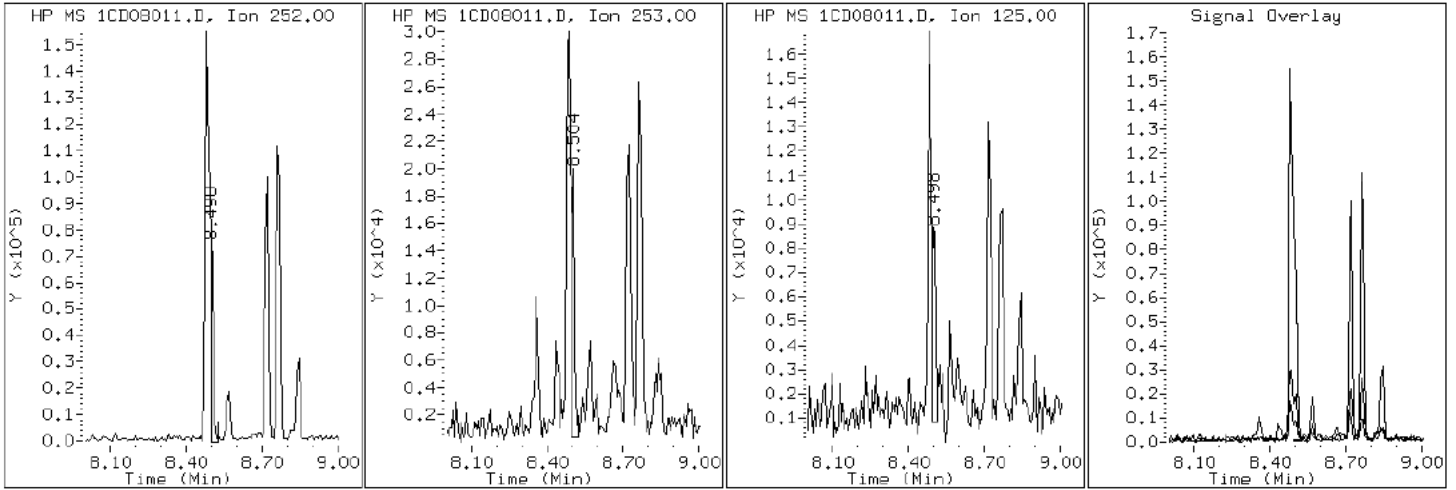
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

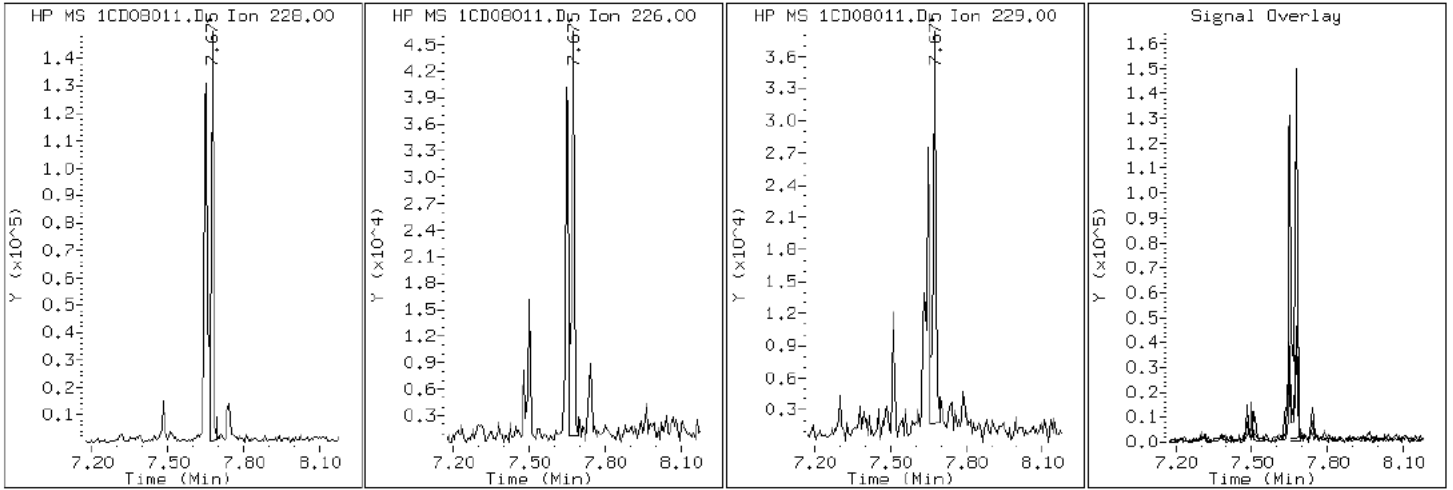
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

19 Chrysene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

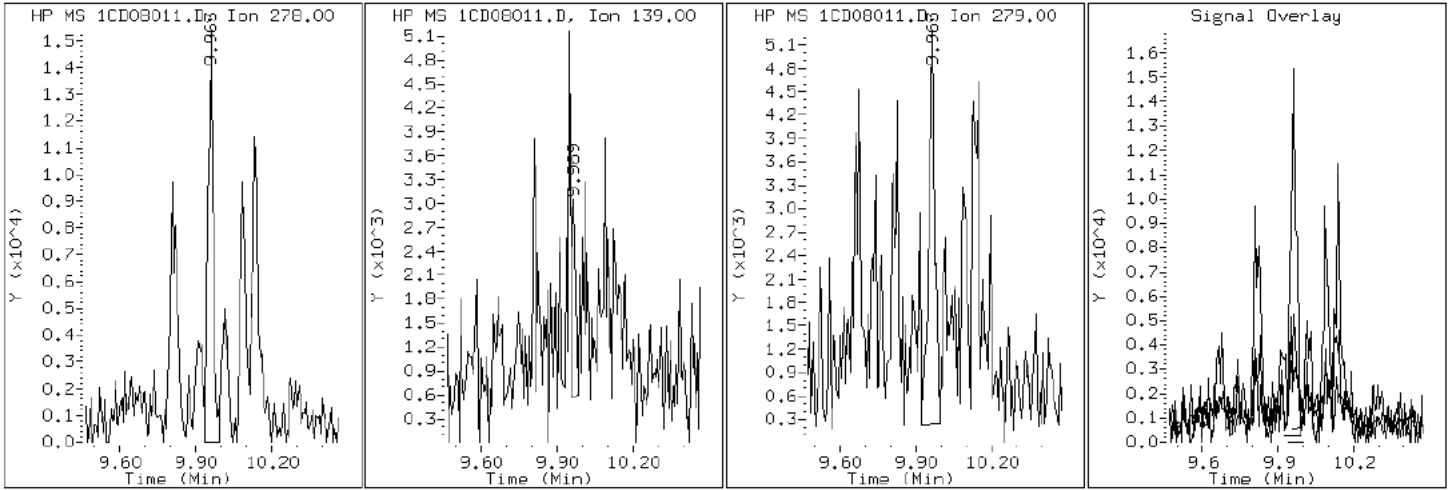
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

25 Dibenzo (a,h) anthracene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

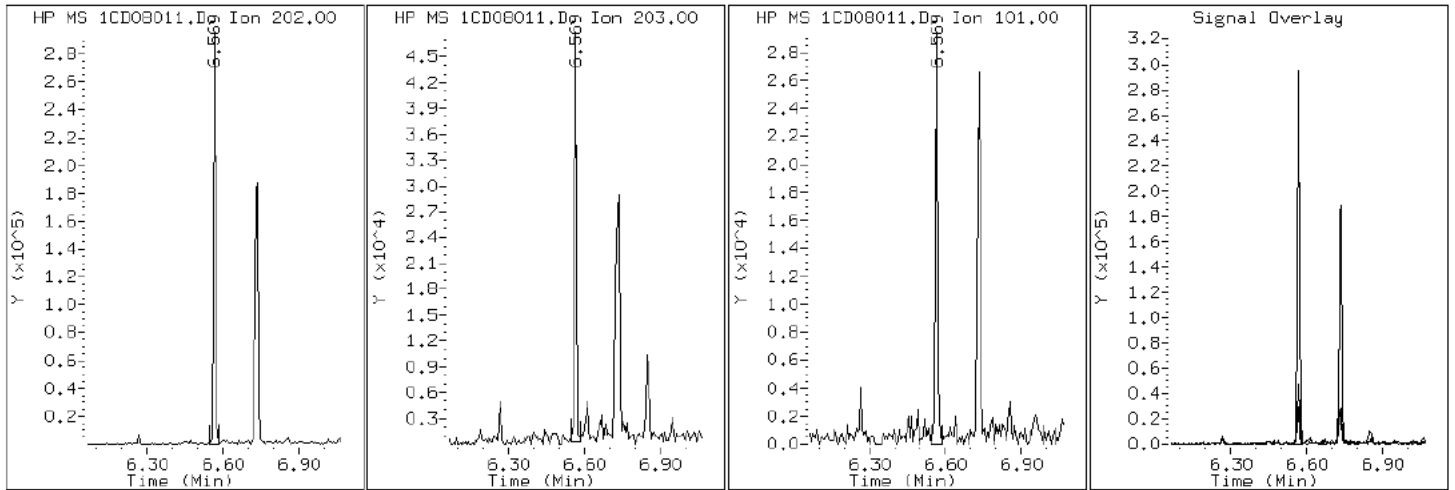
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

15 Fluoranthene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

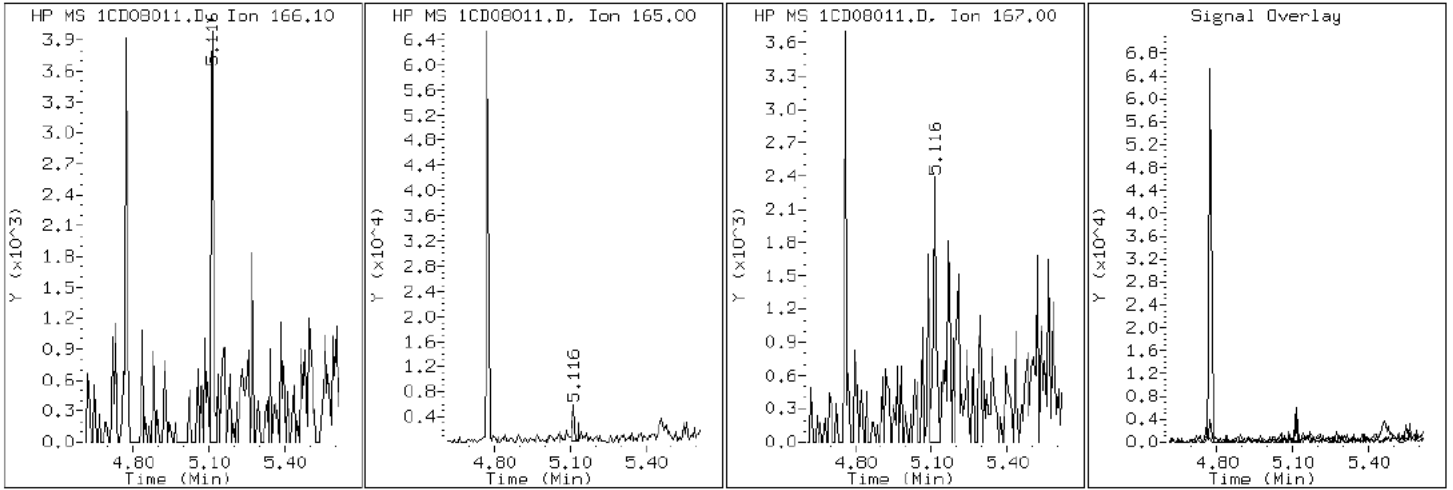
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

9 Fluorene





Data File: 1CD08011.D

Date: 08-APR-2013 15:35

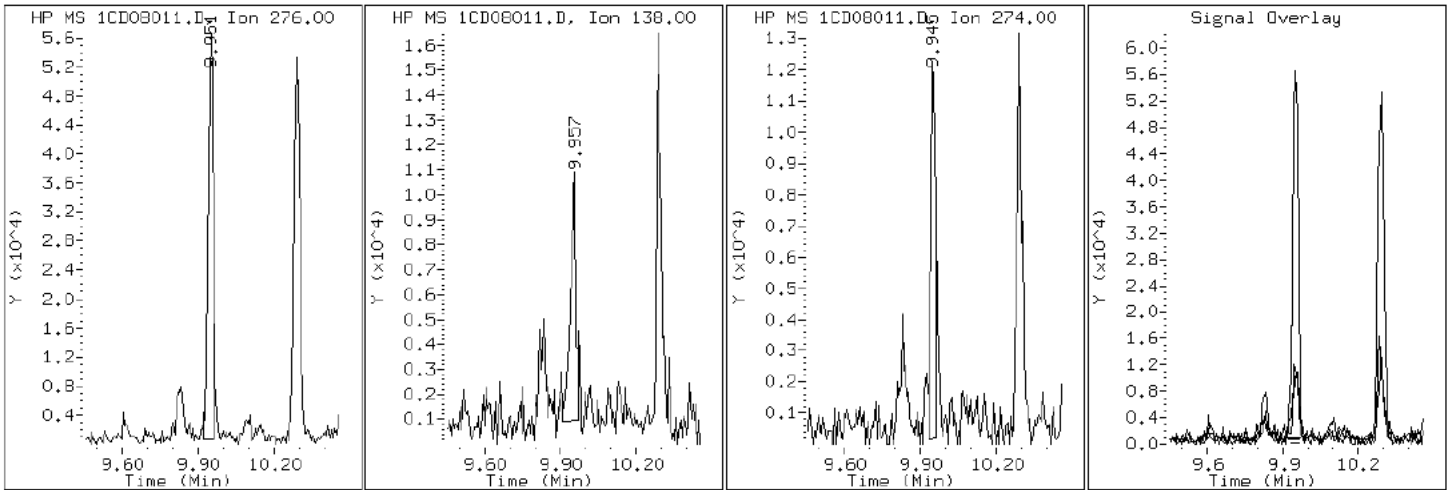
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

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



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

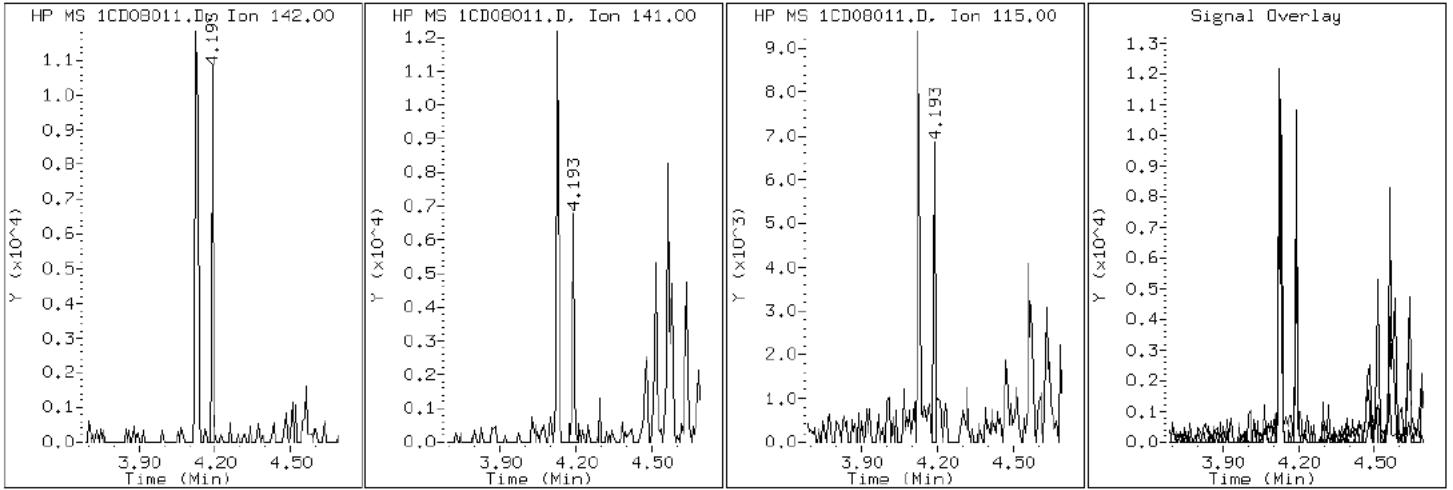
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

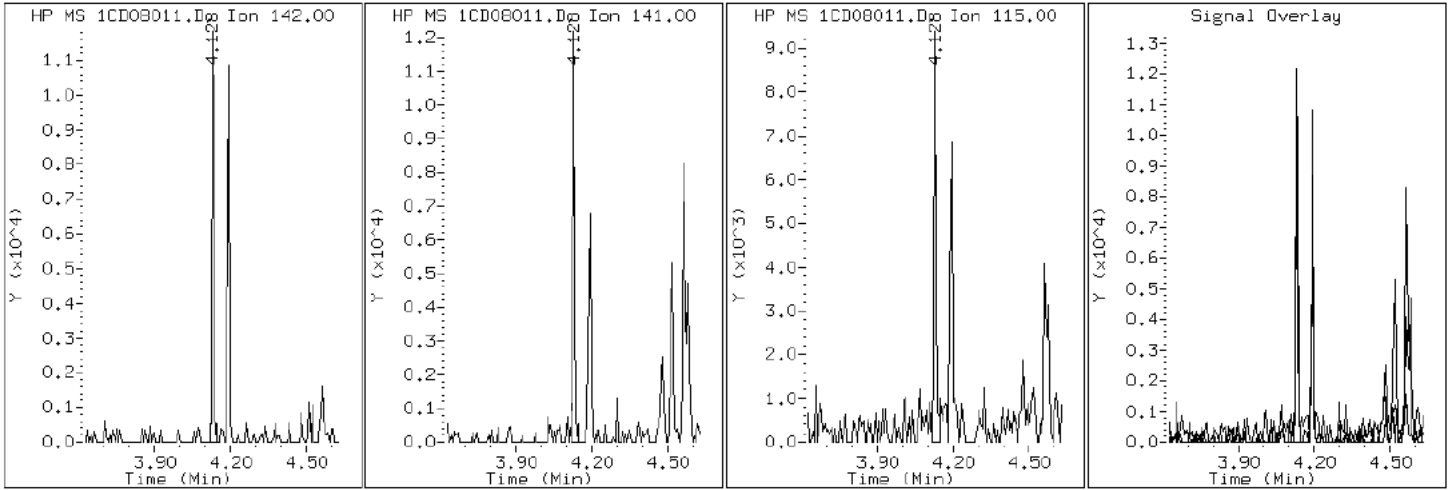
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

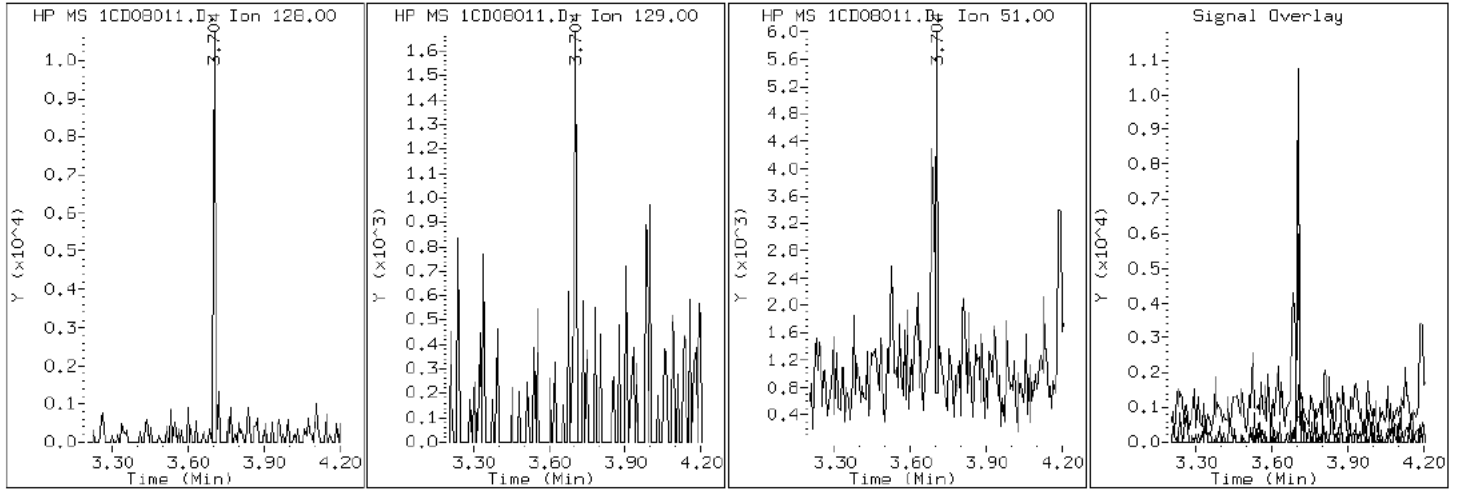
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

2 Naphthalene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

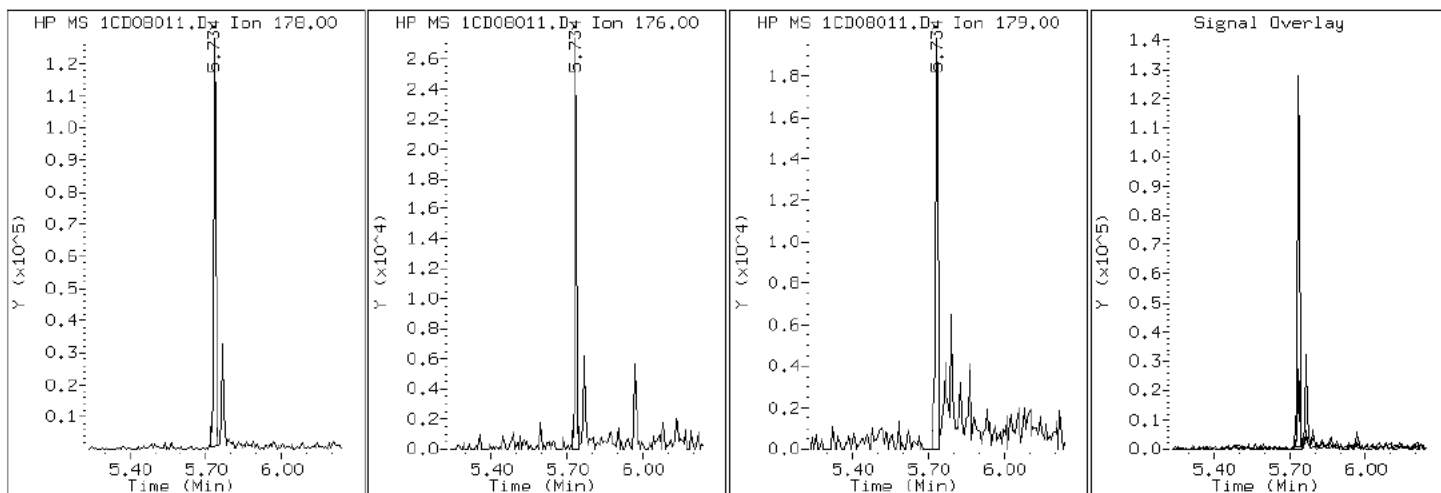
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

11 Phenanthrene



Data File: 1CD08011.D

Date: 08-APR-2013 15:35

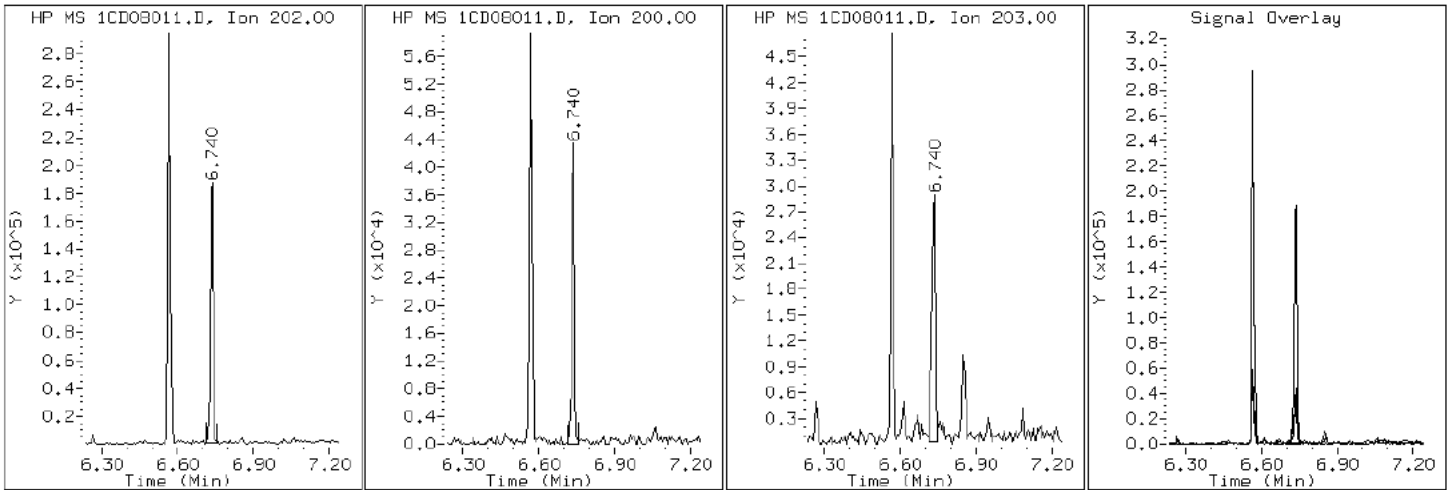
Client ID: CV0013E-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-18-A

Operator: TP

16 Pyrene

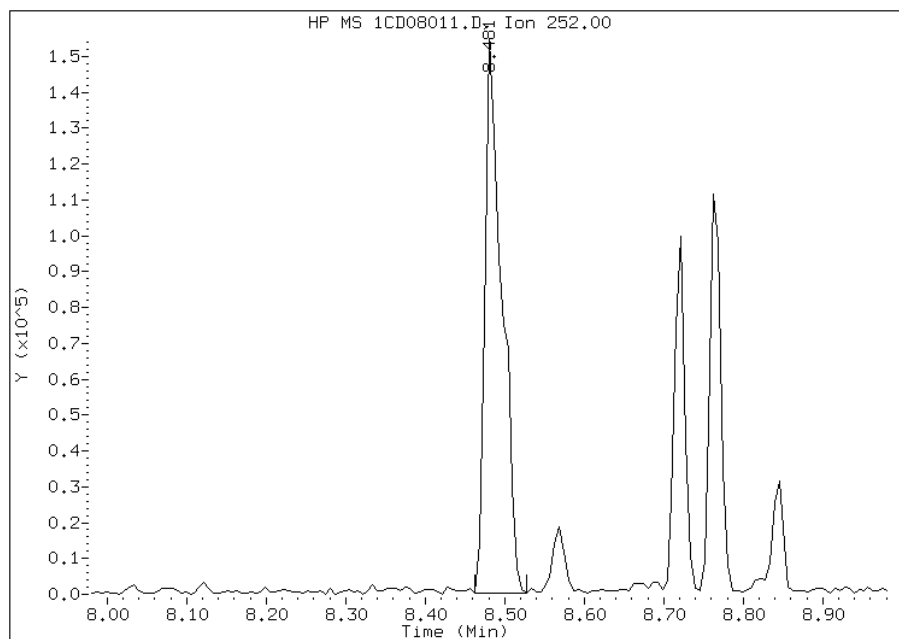


# Manual Integration Report

Data File: 1CD08011.D  
Inj. Date and Time: 08-APR-2013 15:35  
Instrument ID: BSMC5973.i  
Client ID: CV0013E-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

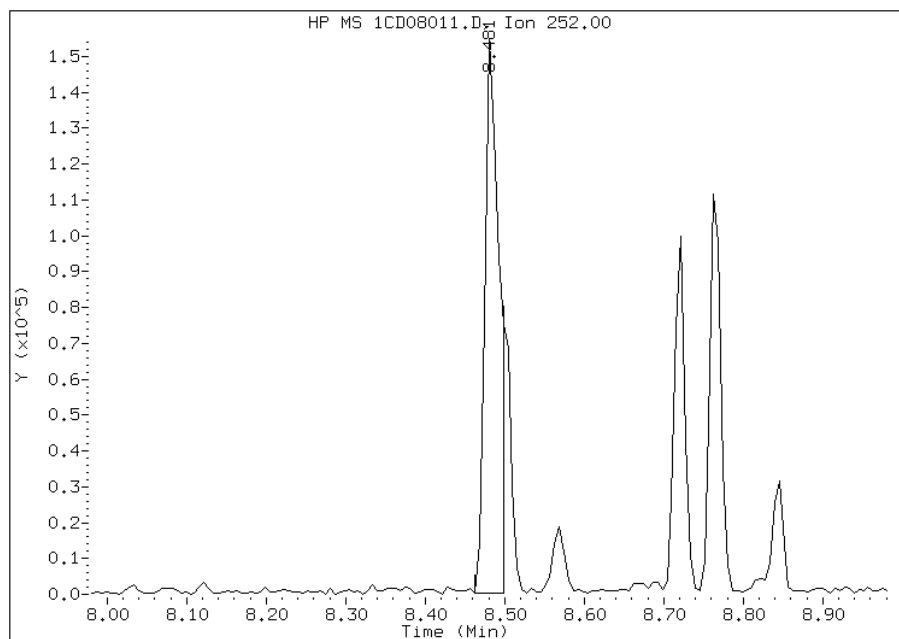
## Processing Integration Results

RT: 8.48  
Response: 228323  
Amount: 13  
Conc: 1044



## Manual Integration Results

RT: 8.48  
Response: 190832  
Amount: 10  
Conc: 872



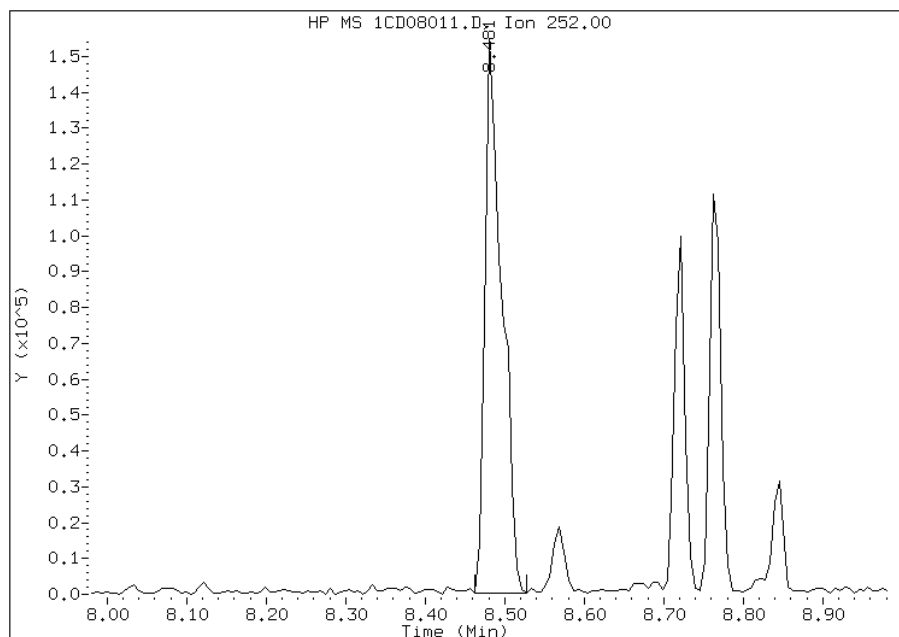
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:08  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08011.D  
Inj. Date and Time: 08-APR-2013 15:35  
Instrument ID: BSMC5973.i  
Client ID: CV0013E-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

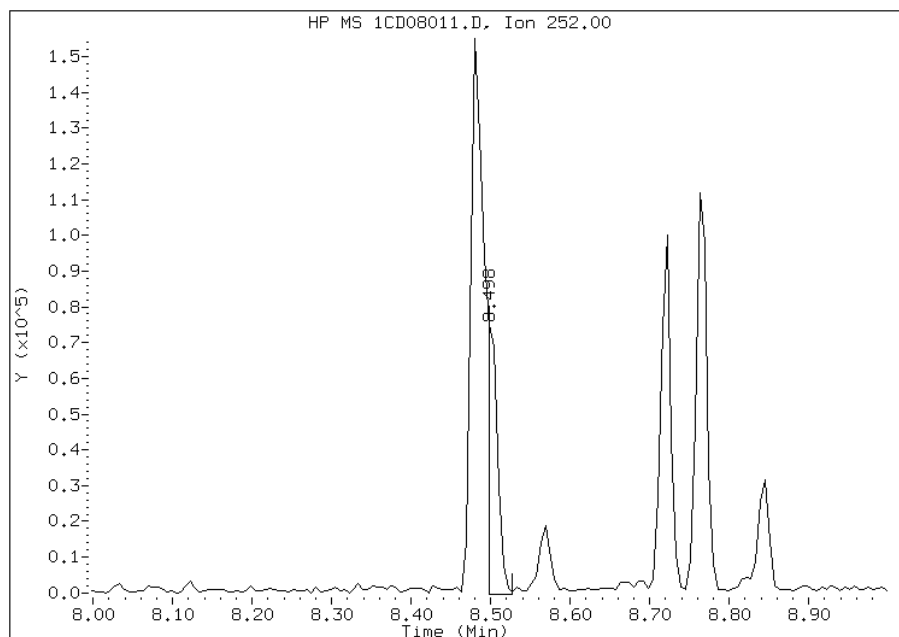
## Processing Integration Results

RT: 8.48  
Response: 228323  
Amount: 13  
Conc: 1079



## Manual Integration Results

RT: 8.50  
Response: 65433  
Amount: 4  
Conc: 309



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:08  
Manual Integration Reason: Split Peak

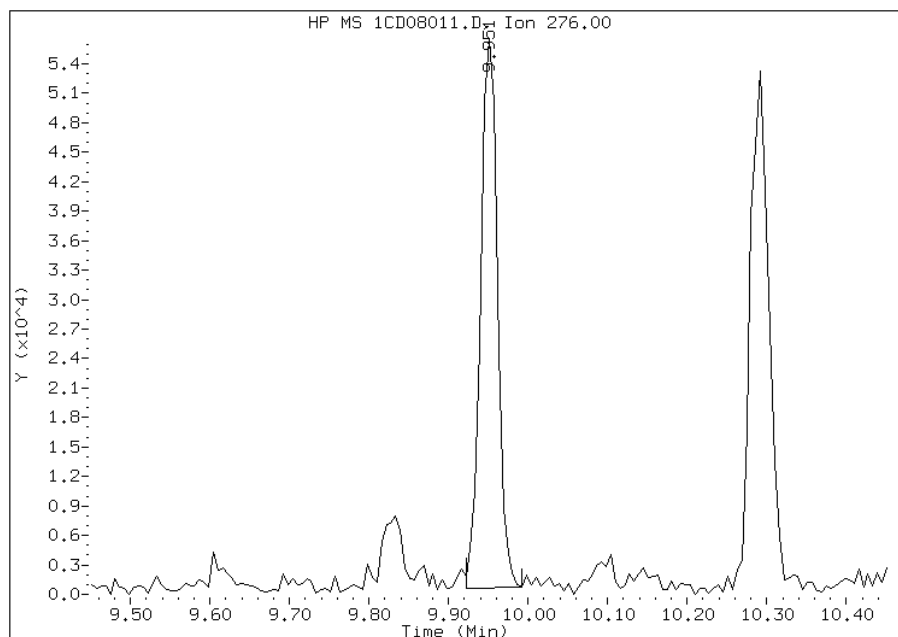


# Manual Integration Report

Data File: 1CD08011.D  
Inj. Date and Time: 08-APR-2013 15:35  
Instrument ID: BSMC5973.i  
Client ID: CV0013E-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

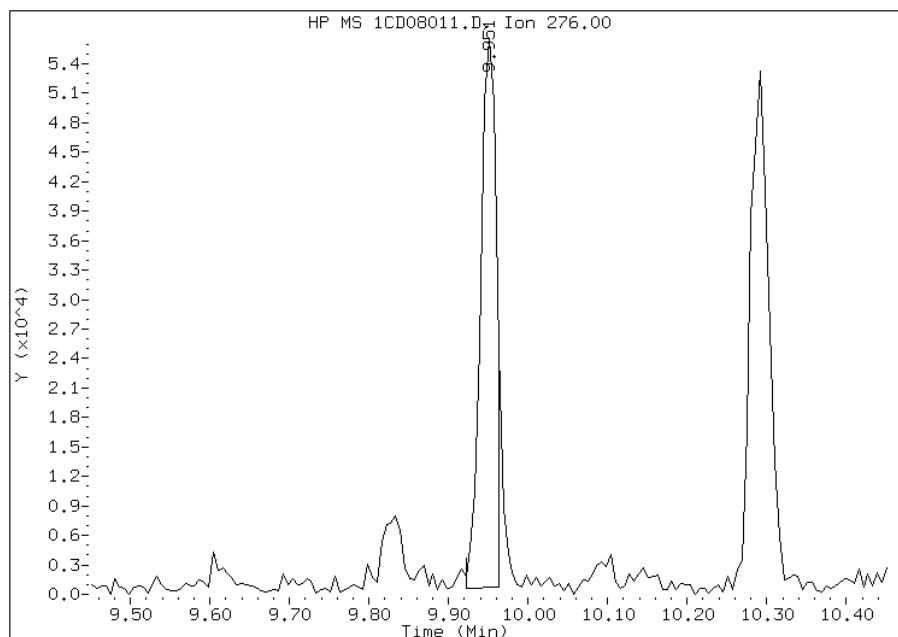
## Processing Integration Results

RT: 9.95  
Response: 81785  
Amount: 5  
Conc: 418



## Manual Integration Results

RT: 9.95  
Response: 77116  
Amount: 5  
Conc: 394



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:09  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0013AB-GS Lab Sample ID: 680-88811-19  
 Matrix: Solid Lab File ID: 1CD08012.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 09:50  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/08/2013 15:54  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	58	J	130	27
208-96-8	Acenaphthylene	51	J	53	6.7
120-12-7	Anthracene	120		11	5.6
56-55-3	Benzo[a]anthracene	690		11	5.2
50-32-8	Benzo[a]pyrene	610		14	6.9
205-99-2	Benzo[b]fluoranthene	980		16	8.1
191-24-2	Benzo[g,h,i]perylene	460		27	5.9
207-08-9	Benzo[k]fluoranthene	360		11	4.8
218-01-9	Chrysene	660		12	6.0
53-70-3	Dibenz(a,h)anthracene	150		27	5.5
206-44-0	Fluoranthene	1200		27	5.3
86-73-7	Fluorene	42		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	430		27	9.5
90-12-0	1-Methylnaphthalene	110		53	5.9
91-57-6	2-Methylnaphthalene	100		53	9.5
91-20-3	Naphthalene	76		53	5.9
85-01-8	Phenanthrene	680		11	5.2
129-00-0	Pyrene	1100		27	4.9

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08012.D  
 Lab Smp Id: 680-88811-A-19-A Client Smp ID: CV0013AB-GS  
 Inj Date : 08-APR-2013 15:54  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-19-A  
 Misc Info : 680-88811-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\A-BFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	24.942	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	415492	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	312330	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	615520	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	69468	7.63984	680.3843
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	691116	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	640619	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	9070	0.84990	75.6899
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	8141	1.12066	99.8028
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	7749	1.18548	105.5753
5 Acenaphthylene	152		4.692	4.686	(0.983)	7458	0.57695	51.3817
7 Acenaphthene	154		4.798	4.798	(1.005)	5218	0.65174	58.0418
9 Fluorene	166		5.115	5.115	(1.071)	5092	0.47708	42.4877(Q)
11 Phenanthrene	178		5.733	5.739	(1.002)	136785	7.63020	679.5250
12 Anthracene	178		5.768	5.768	(1.008)	24398	1.34258	119.5663

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	20521	1.31805	117.3820
15 Fluoranthene	202	6.568	6.568	(1.148)	277226	14.0028	1247.0522
16 Pyrene	202	6.739	6.739	(0.880)	230558	12.0431	1072.5244
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	151684	7.71035	686.6632
19 Chrysene	228	7.674	7.674	(1.002)	145805	7.40360	659.3454
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	200207	11.0545	984.4879(M)
21 Benzo(k)fluoranthene	252	8.498	8.503	(0.963)	70267	4.01149	357.2524(M)
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	116238	6.81710	607.1131
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	78112	4.82317	429.5388(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	24963	1.66859	148.6005
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	86251	5.21813	464.7131

QC Flag Legend

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

Data File: 1CD08012.D

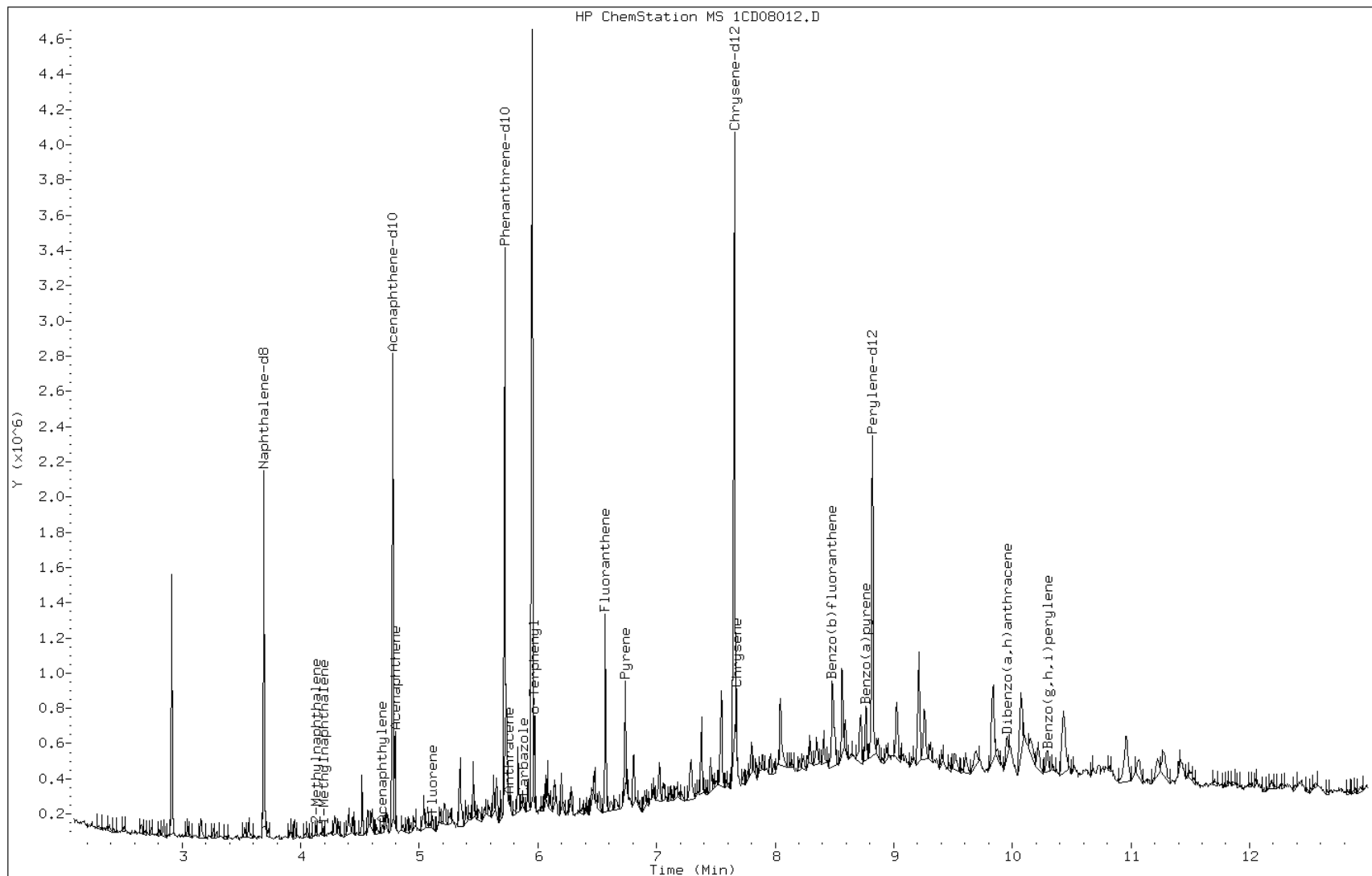
Date: 08-APR-2013 15:54

Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

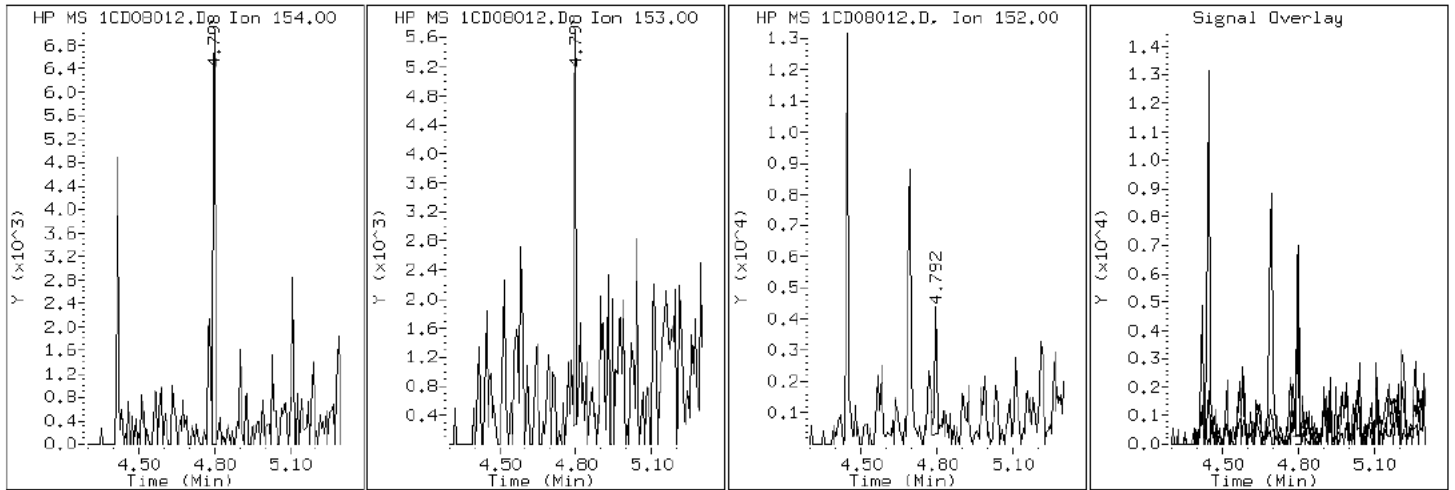
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

7 Acenaphthene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

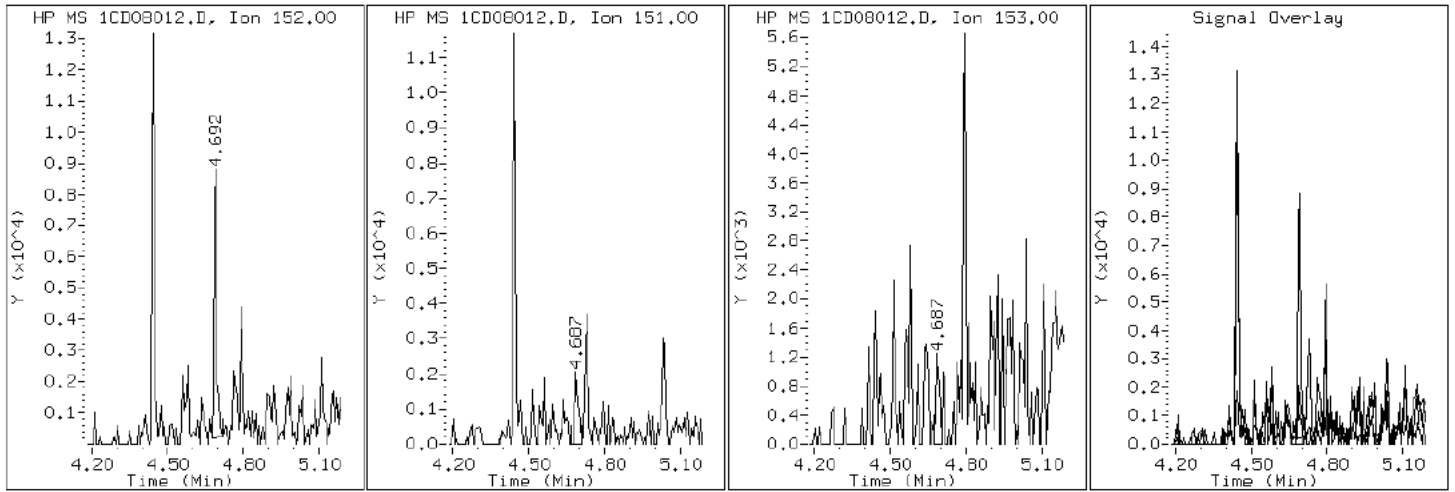
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

5 Acenaphthylene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

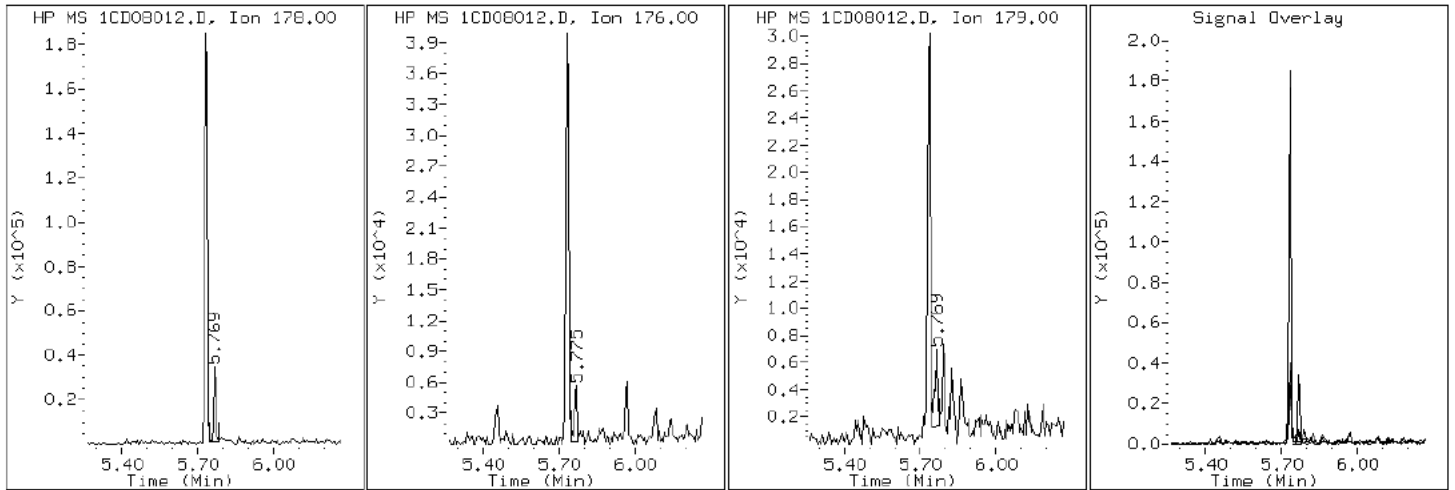
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

12 Anthracene





Data File: 1CD08012.D

Date: 08-APR-2013 15:54

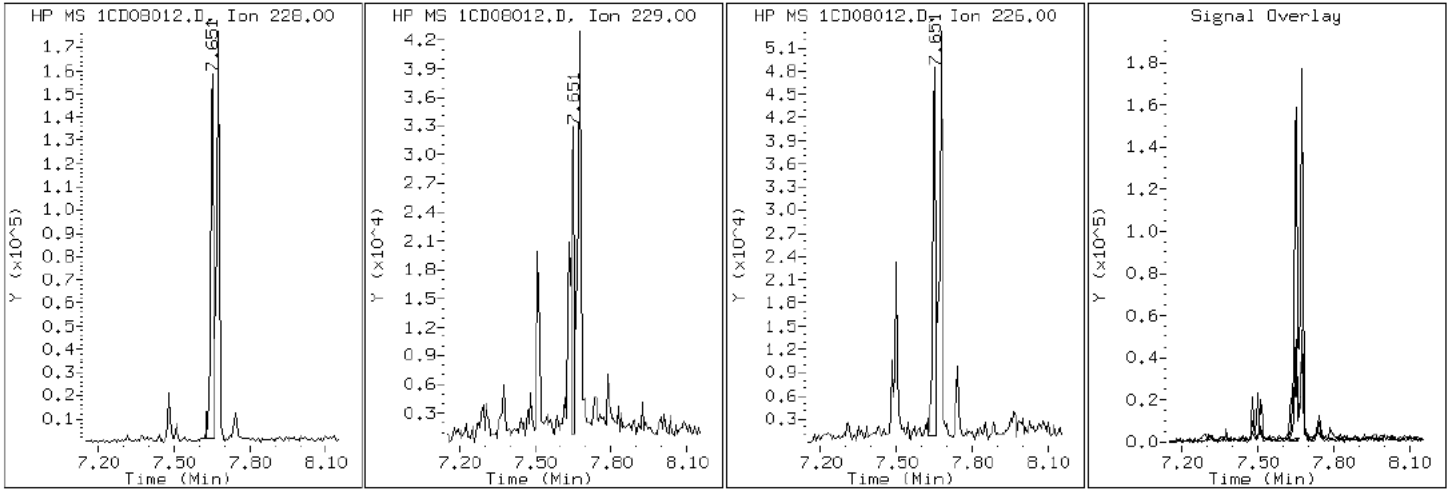
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

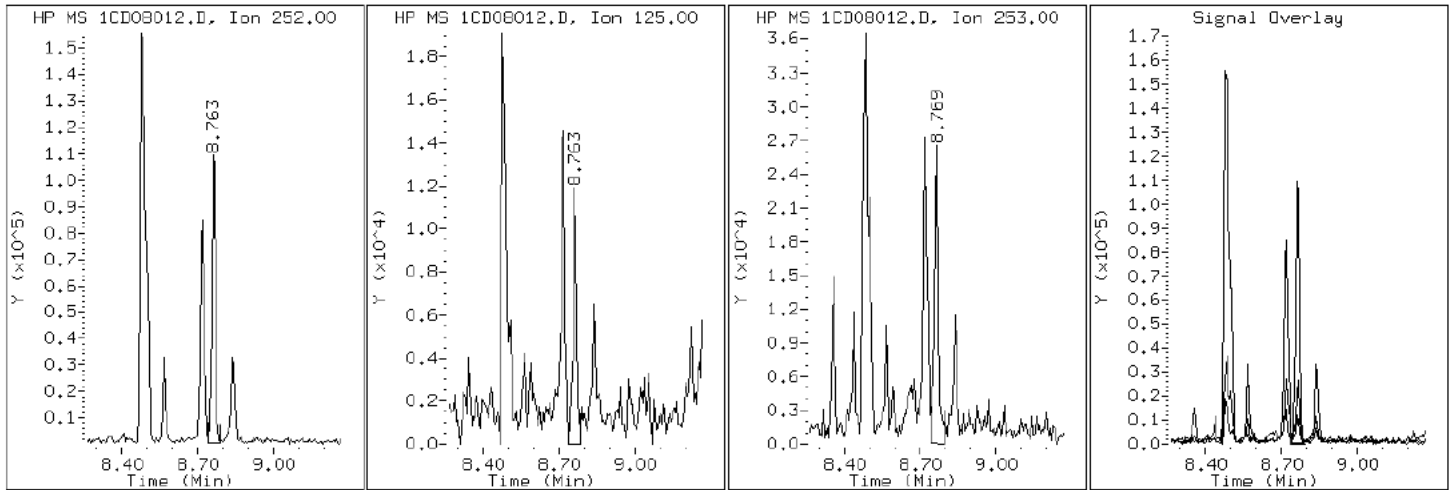
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

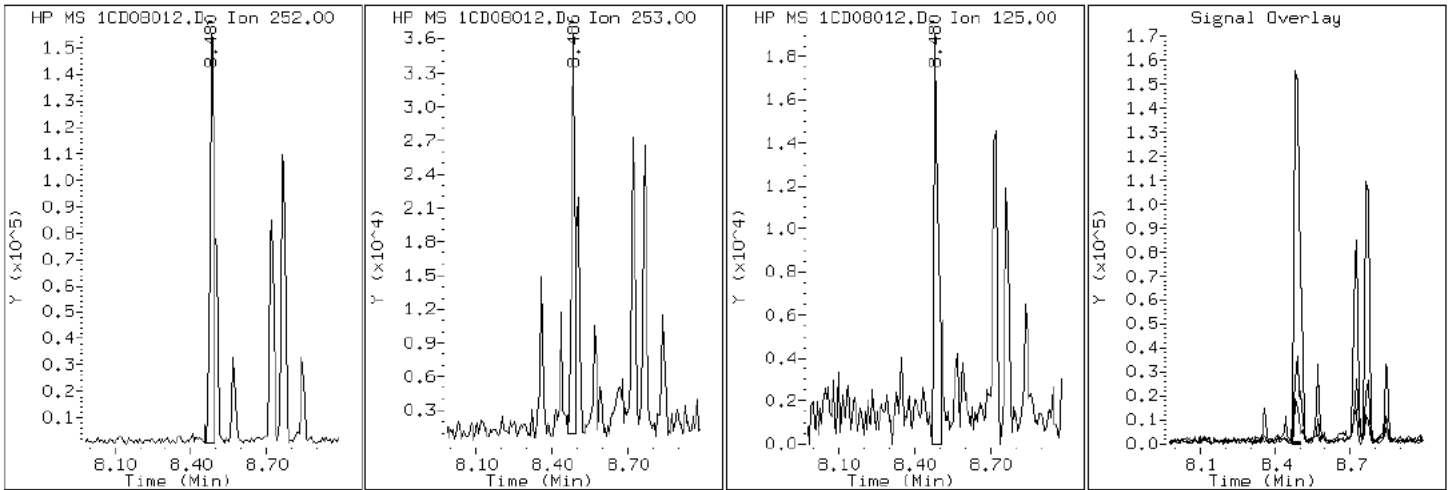
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

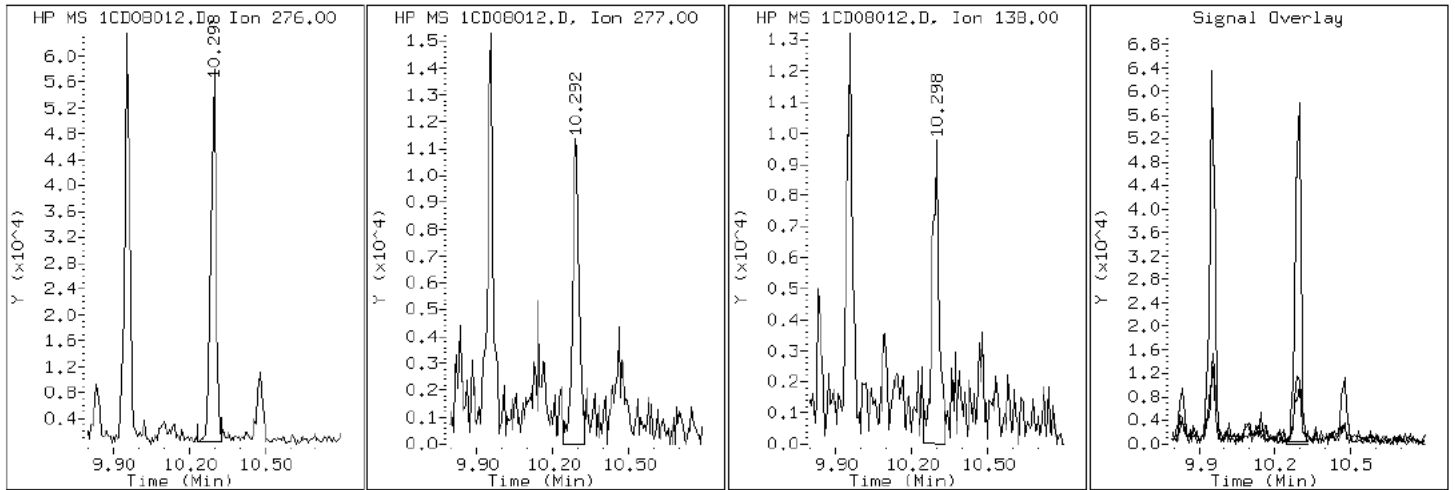
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

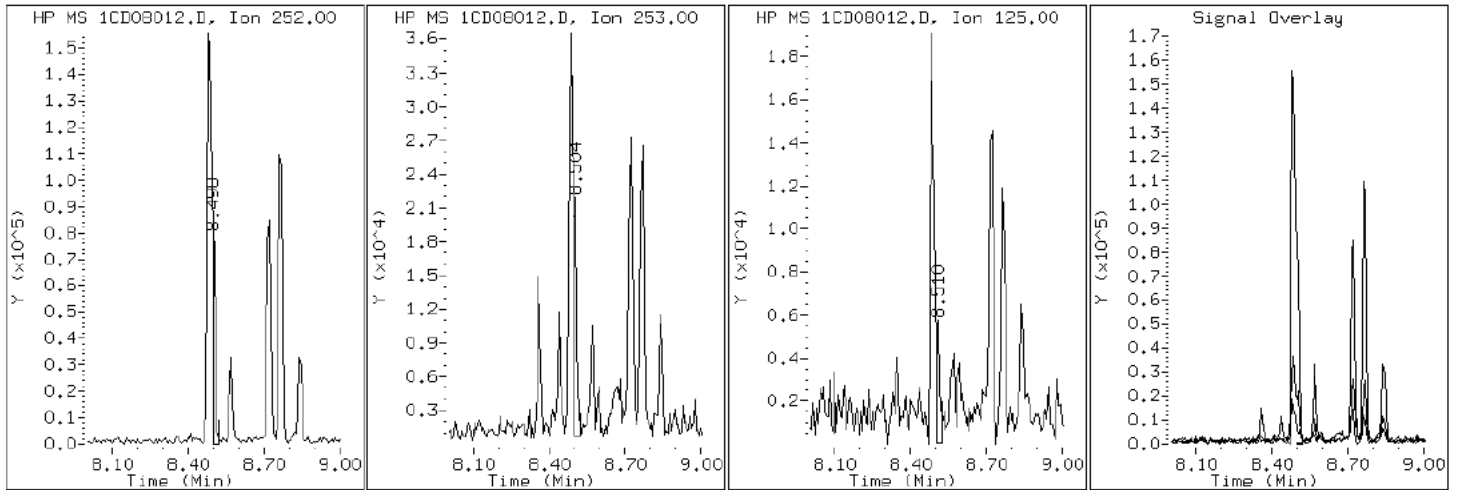
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

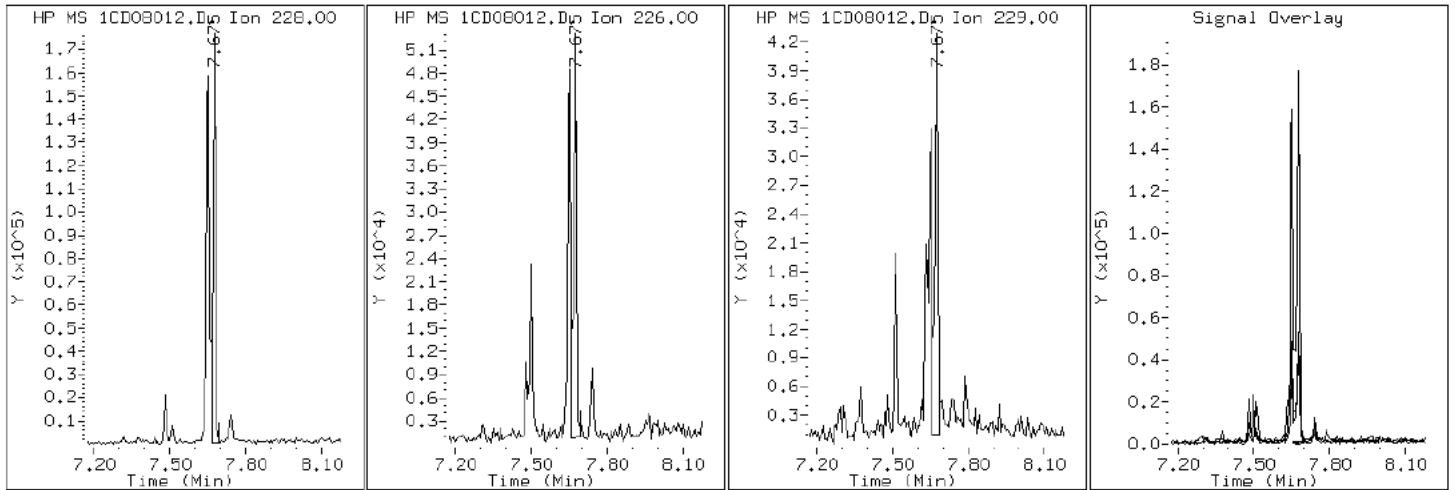
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

19 Chrysene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

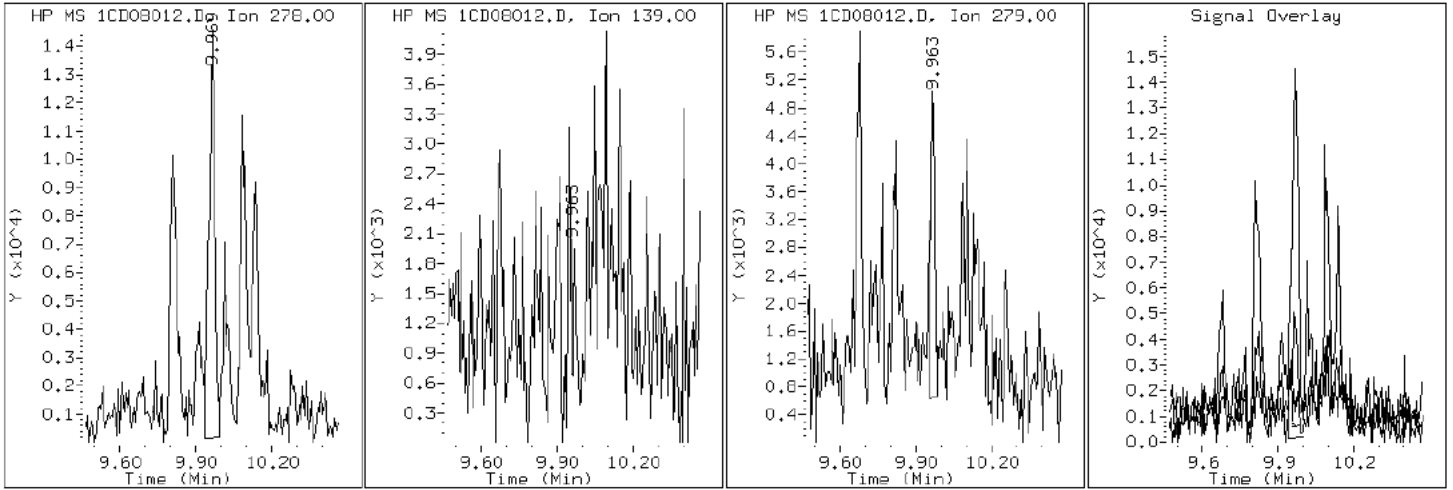
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

25 Dibenzo (a,h)anthracene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

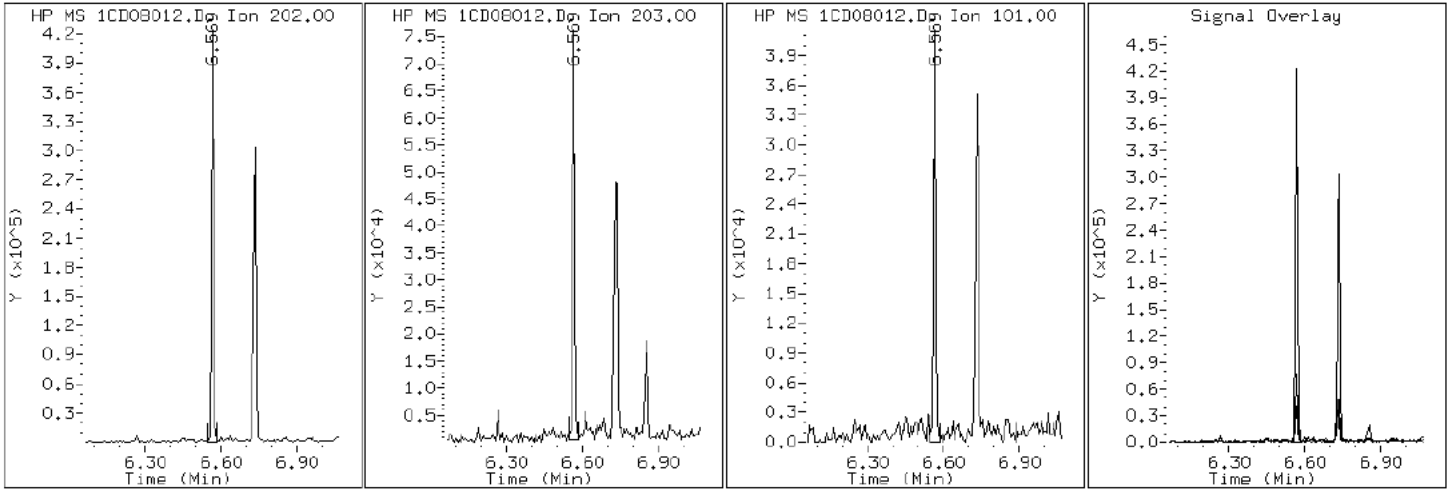
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

15 Fluoranthene





Data File: 1CD08012.D

Date: 08-APR-2013 15:54

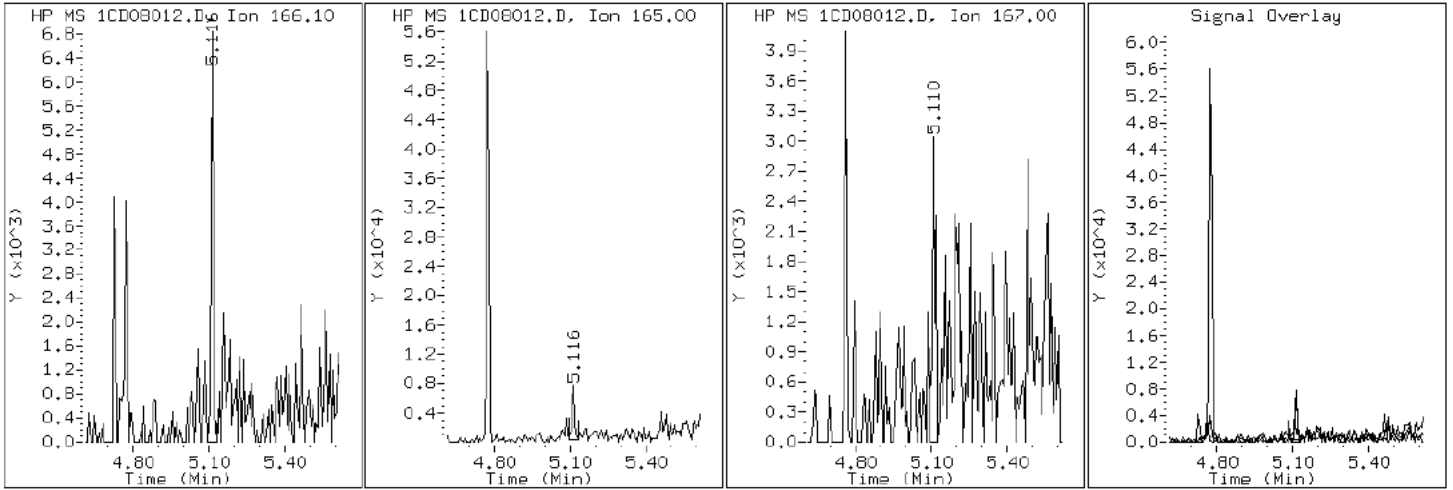
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

9 Fluorene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

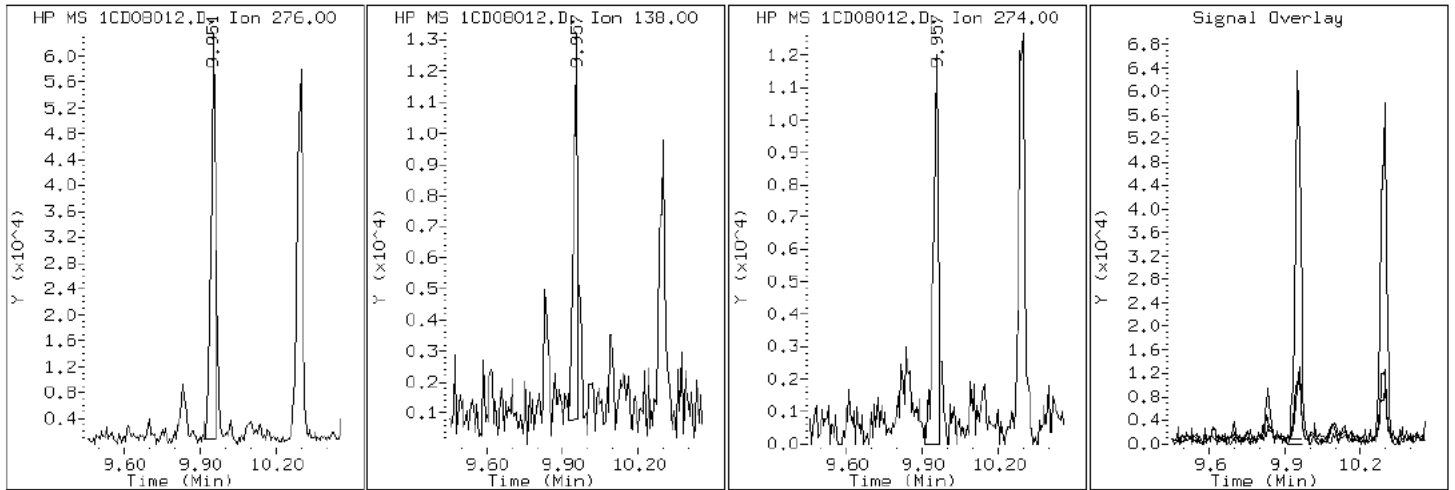
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

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



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

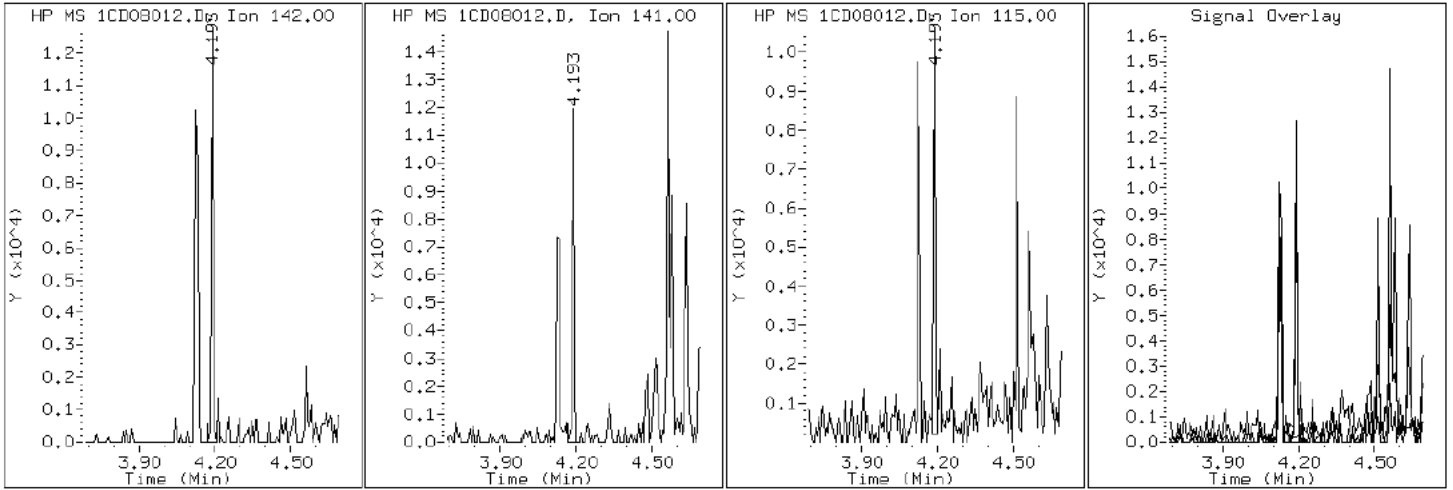
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

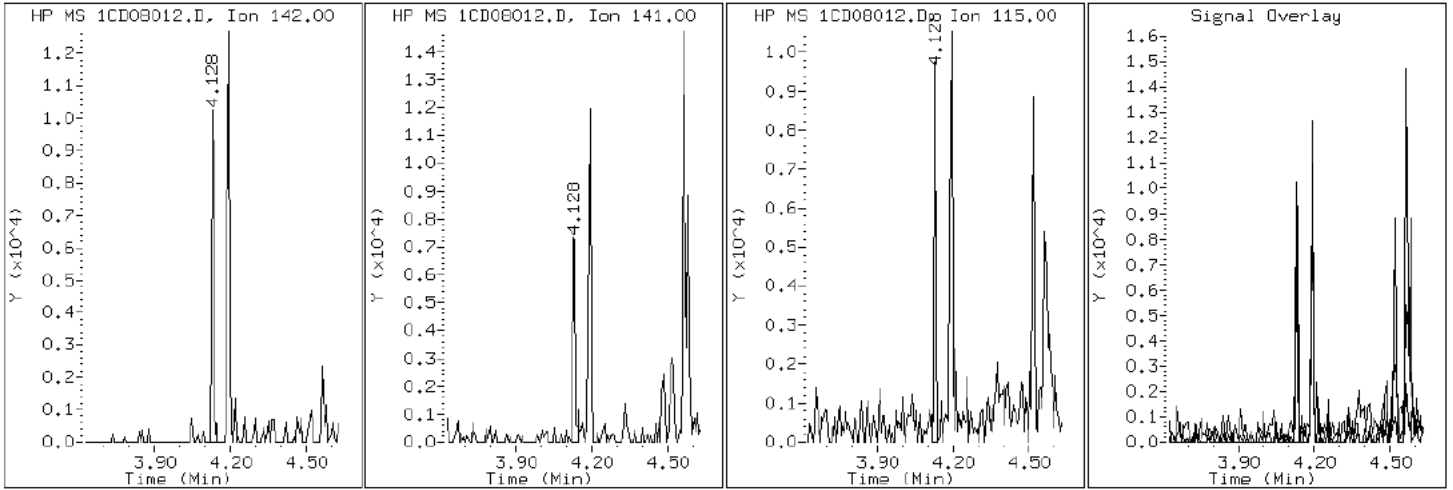
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

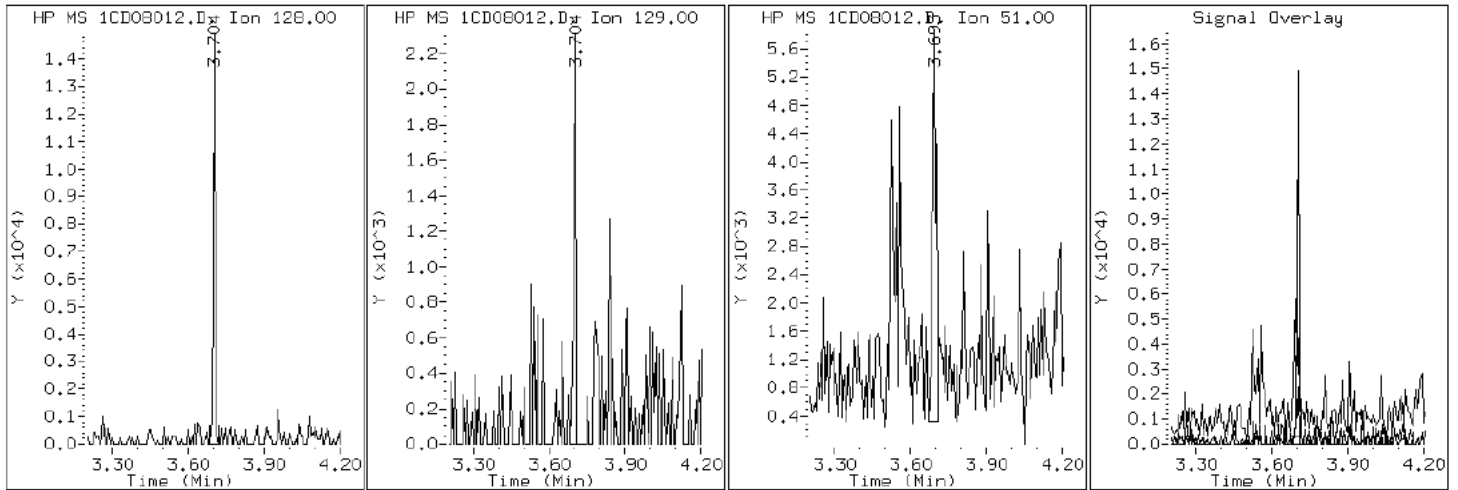
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

2 Naphthalene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

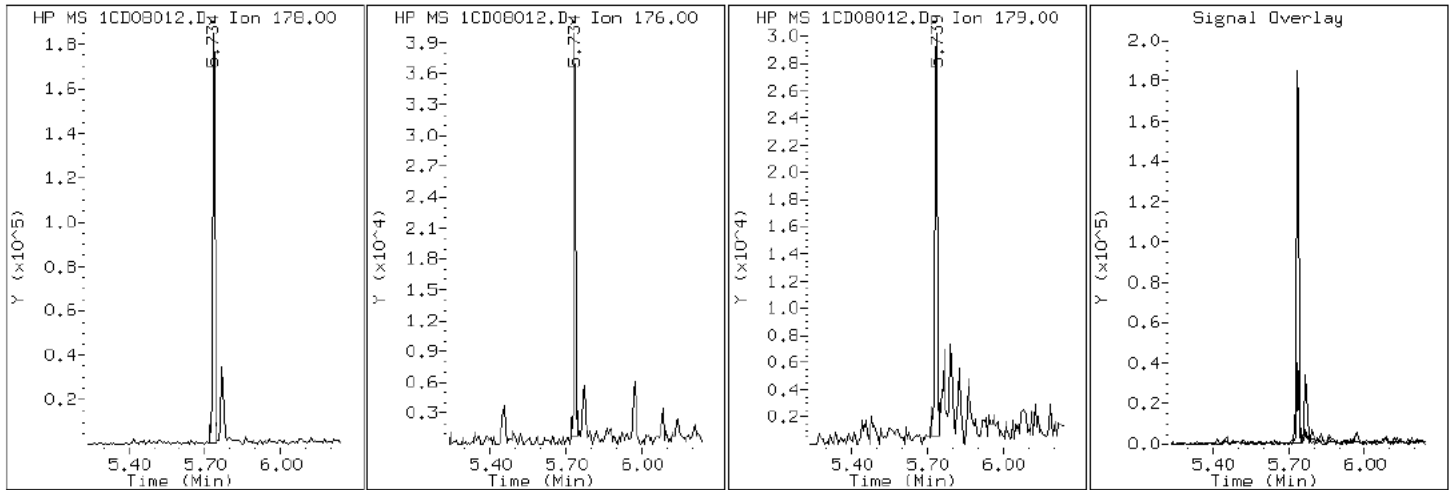
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

11 Phenanthrene



Data File: 1CD08012.D

Date: 08-APR-2013 15:54

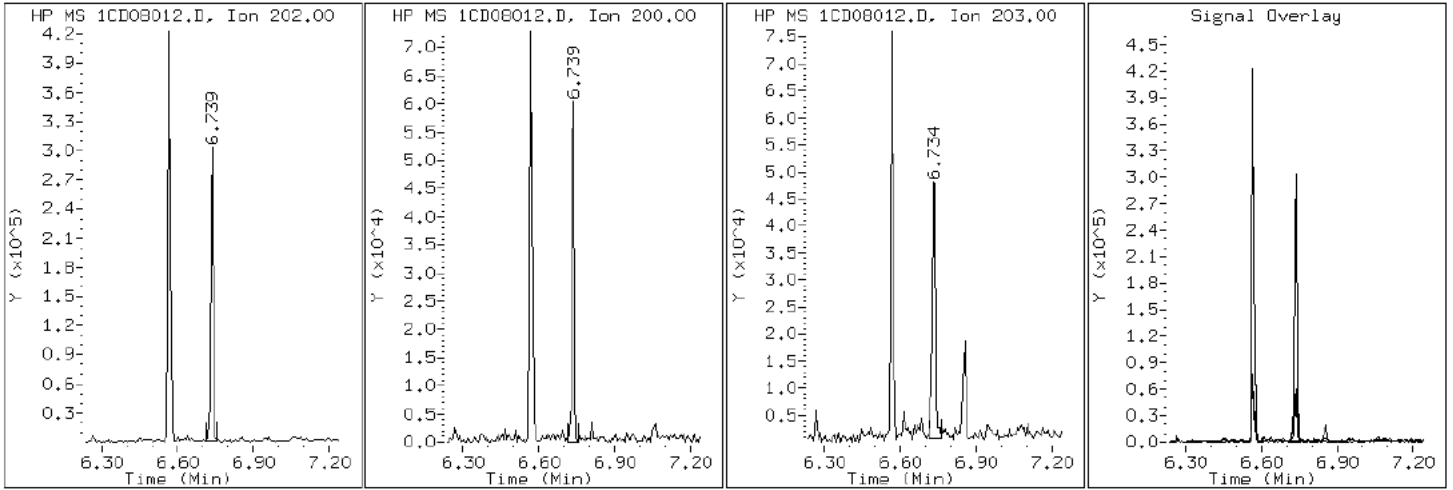
Client ID: CV0013AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-19-A

Operator: TP

16 Pyrene

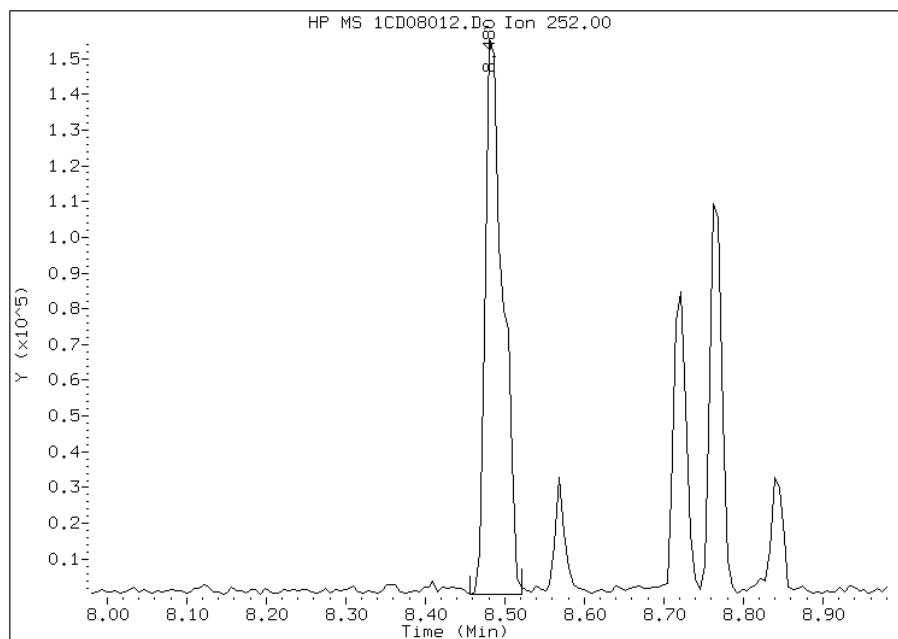


# Manual Integration Report

Data File: 1CD08012.D  
Inj. Date and Time: 08-APR-2013 15:54  
Instrument ID: BSMC5973.i  
Client ID: CV0013AB-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

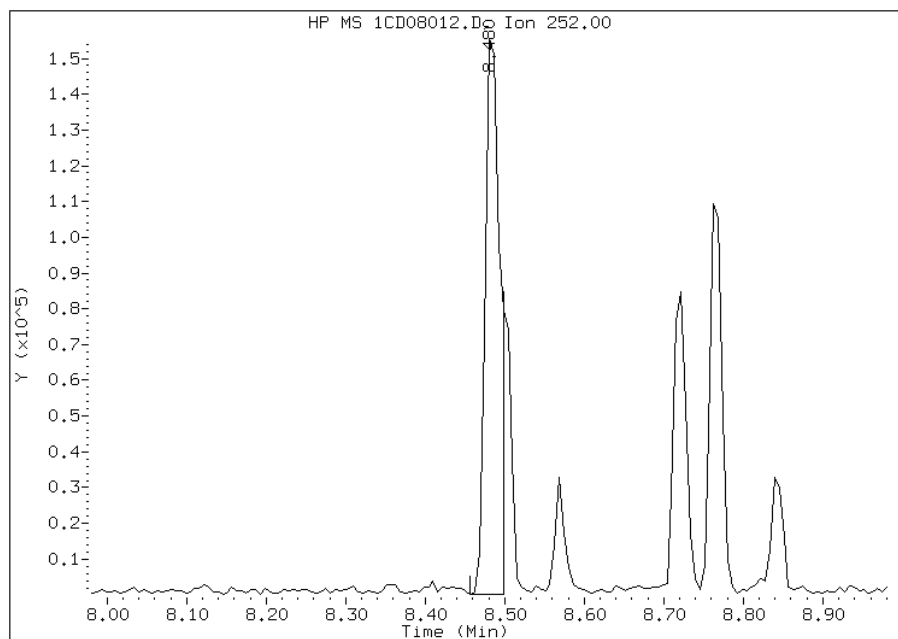
## Processing Integration Results

RT: 8.48  
Response: 241856  
Amount: 13  
Conc: 1189



## Manual Integration Results

RT: 8.48  
Response: 200207  
Amount: 11  
Conc: 984



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:09  
Manual Integration Reason: Split Peak

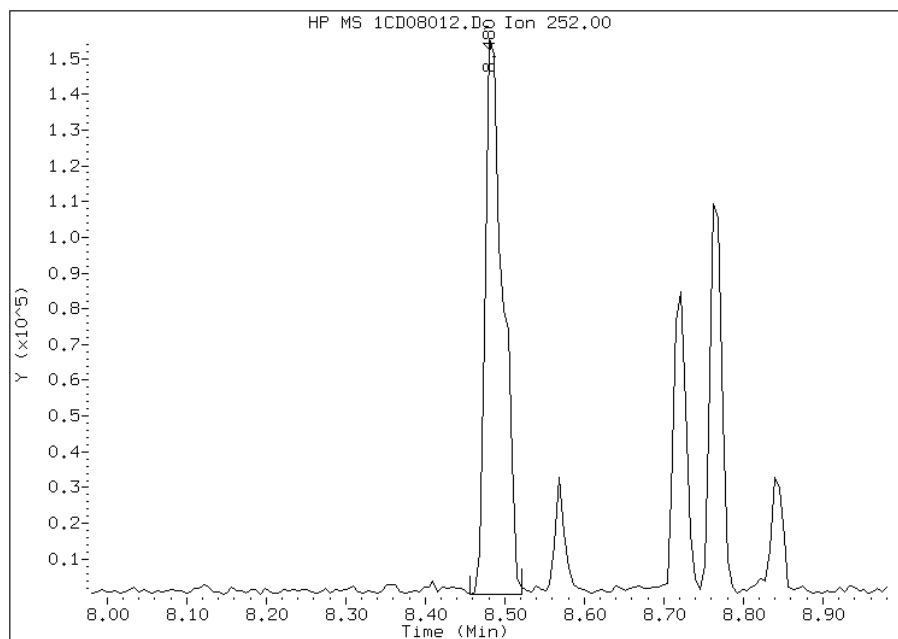


# Manual Integration Report

Data File: 1CD08012.D  
Inj. Date and Time: 08-APR-2013 15:54  
Instrument ID: BSMC5973.i  
Client ID: CV0013AB-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

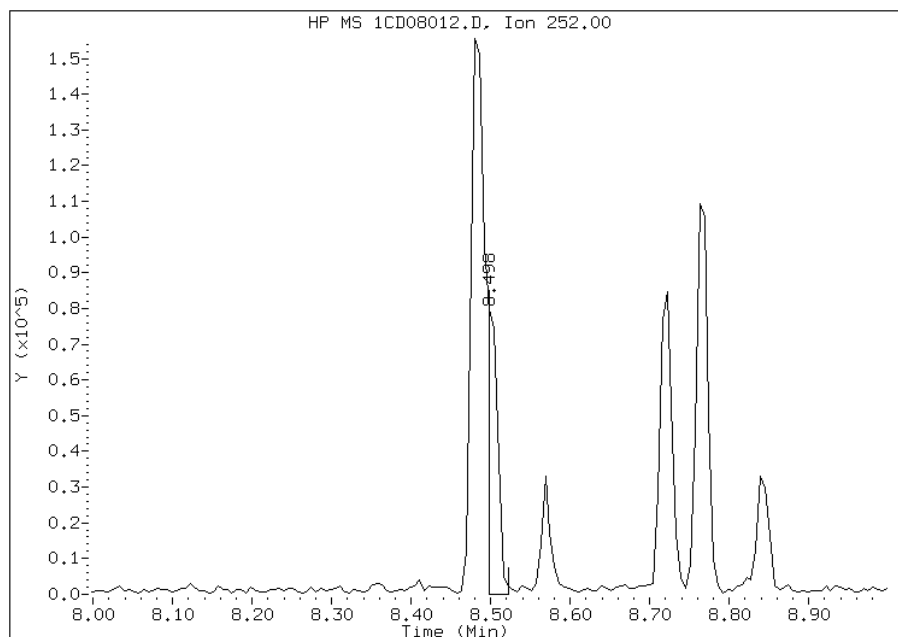
## Processing Integration Results

RT: 8.48  
Response: 241856  
Amount: 14  
Conc: 1230



## Manual Integration Results

RT: 8.50  
Response: 70267  
Amount: 4  
Conc: 357



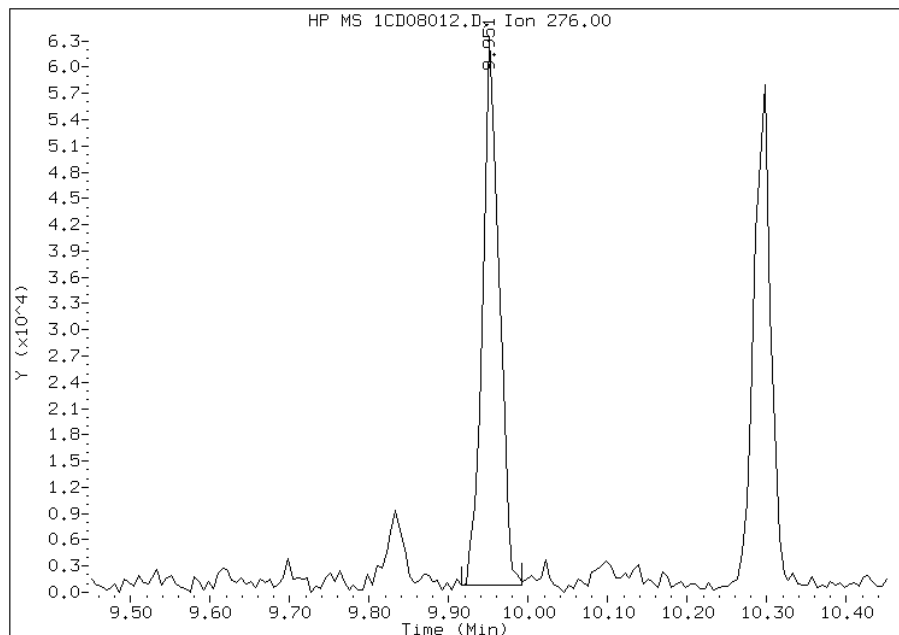
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:10  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08012.D  
Inj. Date and Time: 08-APR-2013 15:54  
Instrument ID: BSMC5973.i  
Client ID: CV0013AB-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

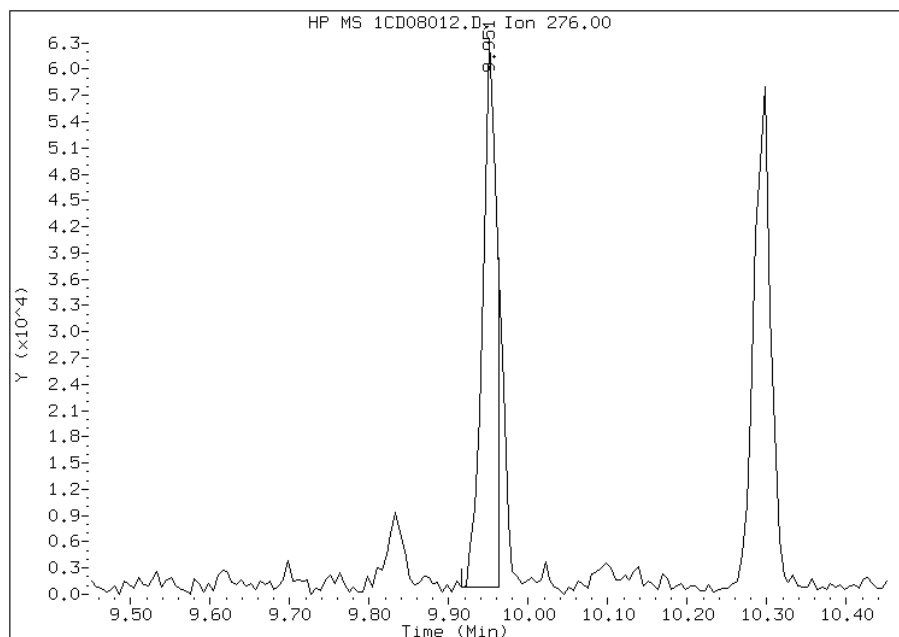
## Processing Integration Results

RT: 9.95  
Response: 90106  
Amount: 6  
Conc: 495



## Manual Integration Results

RT: 9.95  
Response: 78112  
Amount: 5  
Conc: 430



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:10  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV1036A-CS Lab Sample ID: 680-88811-20  
 Matrix: Solid Lab File ID: 1CD08013.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 12:35  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.90 (g) Date Analyzed: 04/08/2013 16:12  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 21.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	32	J	130	26
208-96-8	Acenaphthylene	48	J	51	6.4
120-12-7	Anthracene	110		11	5.4
56-55-3	Benzo[a]anthracene	520		10	5.0
50-32-8	Benzo[a]pyrene	600		13	6.6
205-99-2	Benzo[b]fluoranthene	1000		16	7.8
191-24-2	Benzo[g,h,i]perylene	460		26	5.6
207-08-9	Benzo[k]fluoranthene	350		10	4.6
218-01-9	Chrysene	720		11	5.7
53-70-3	Dibenz(a,h)anthracene	150		26	5.2
206-44-0	Fluoranthene	820		26	5.1
86-73-7	Fluorene	40		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	430		26	9.1
90-12-0	1-Methylnaphthalene	140		51	5.6
91-57-6	2-Methylnaphthalene	180		51	9.1
91-20-3	Naphthalene	160		51	5.6
85-01-8	Phenanthrene	410		10	5.0
129-00-0	Pyrene	780		26	4.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08013.D  
 Lab Smp Id: 680-88811-A-20-A Client Smp ID: CV1036A-CS  
 Inj Date : 08-APR-2013 16:12  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-20-A  
 Misc Info : 680-88811-A-20-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 13  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	21.111	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	437886	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	327151	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	636478	40.0000	
\$ 14 o-Terphenyl	230		5.969	5.974	(1.043)	69576	7.42256	631.4683
* 18 Chrysene-d12	240		7.657	7.656	(1.000)	678377	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	631037	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	21422	1.90468	162.0394
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	16533	2.15948	183.7158
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	11364	1.64960	140.3387
5 Acenaphthylene	152		4.686	4.686	(0.982)	7715	0.56979	48.4747
7 Acenaphthene	154		4.792	4.798	(1.004)	3186	0.37991	32.3203
9 Fluorene	166		5.116	5.115	(1.071)	5226	0.46746	39.7683(Q)
11 Phenanthrene	178		5.733	5.739	(1.002)	88664	4.78303	406.9126
12 Anthracene	178		5.769	5.768	(1.008)	23273	1.23850	105.3644

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.874	5.880	(1.027)	10852	0.67407	57.3455
15 Fluoranthene	202	6.568	6.568	(1.148)	196629	9.60478	817.1186
16 Pyrene	202	6.739	6.739	(0.880)	171326	9.11718	775.6364
17 Benzo(a)anthracene	228	7.645	7.651	(0.998)	117658	6.12151	520.7825
19 Chrysene	228	7.674	7.674	(1.002)	163142	8.43949	717.9832
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	213540	11.9698	1018.3181(M)
21 Benzo(k)fluoranthene	252	8.504	8.503	(0.964)	71694	4.15510	353.4920(M)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	118650	7.06422	600.9832
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.956	(1.128)	81348	5.09925	433.8150(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	26553	1.80182	153.2887
26 Benzo(g,h,i)perylene	276	10.298	10.297	(1.167)	88301	5.42328	461.3808

QC Flag Legend

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

Data File: 1CD08013.D

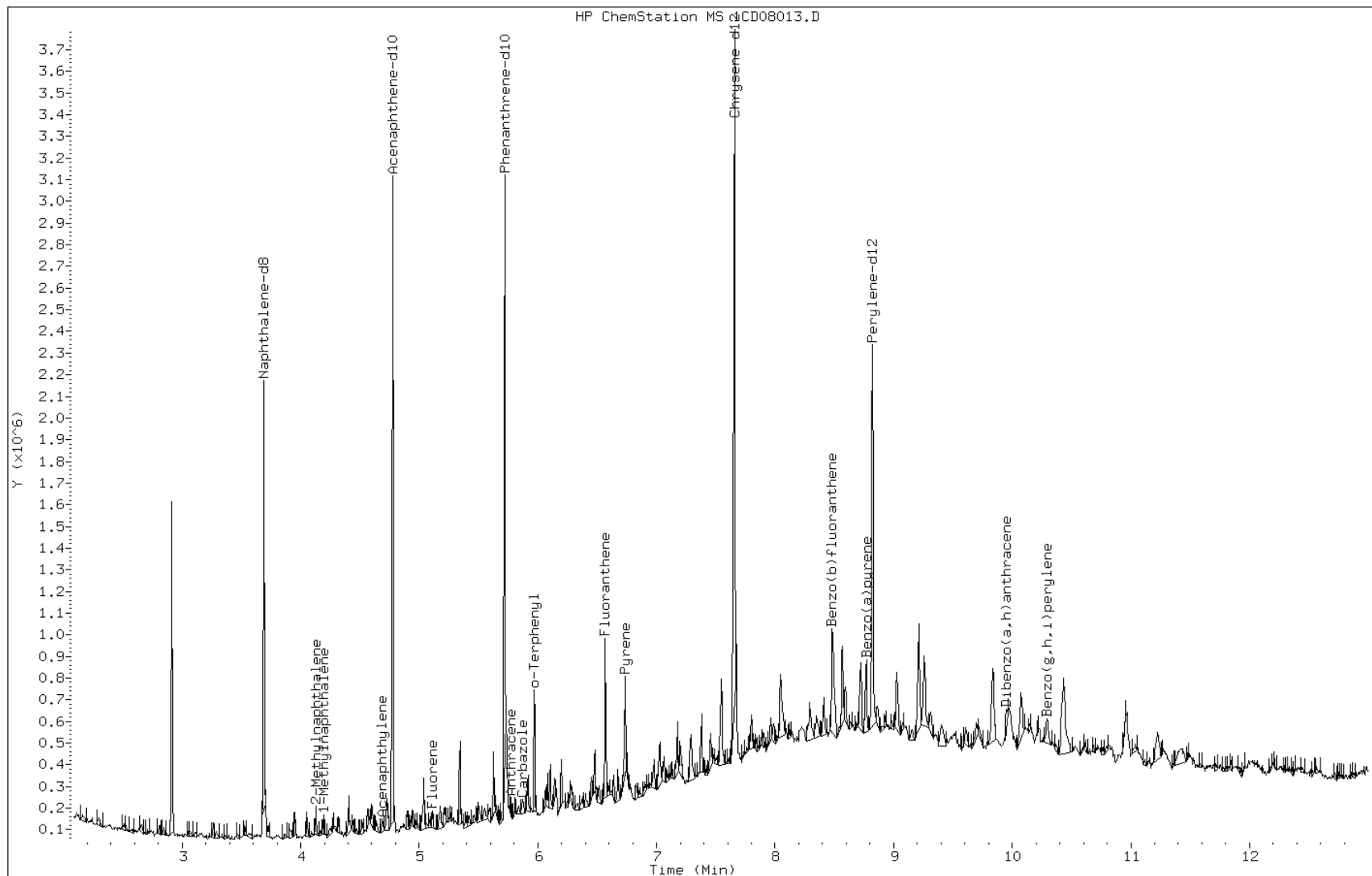
Date: 08-APR-2013 16:12

Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

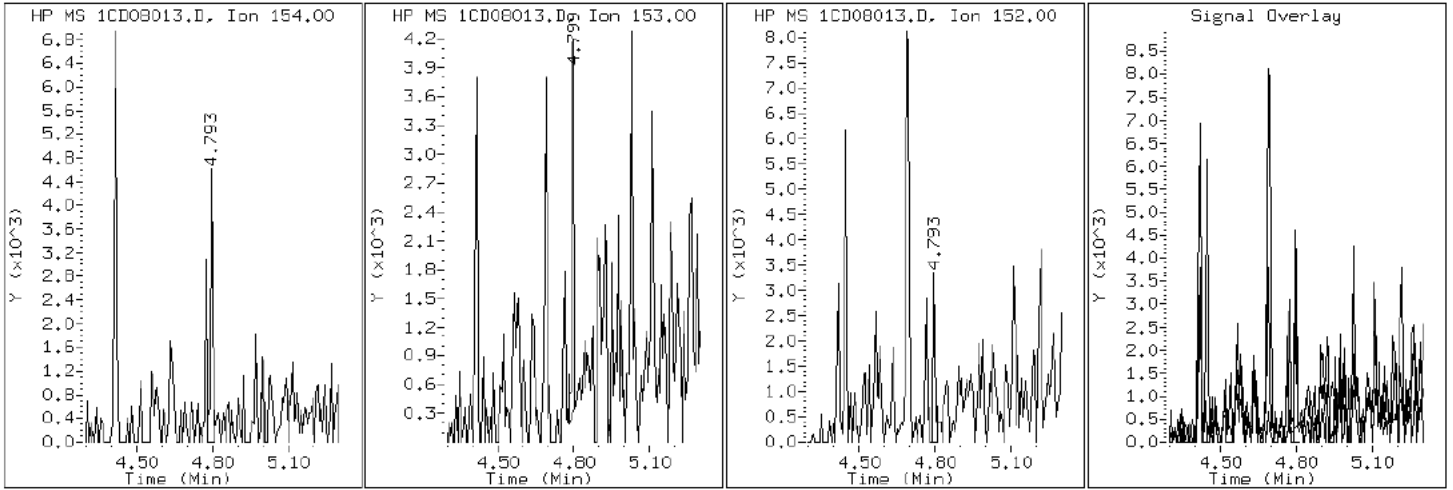
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

7 Acenaphthene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

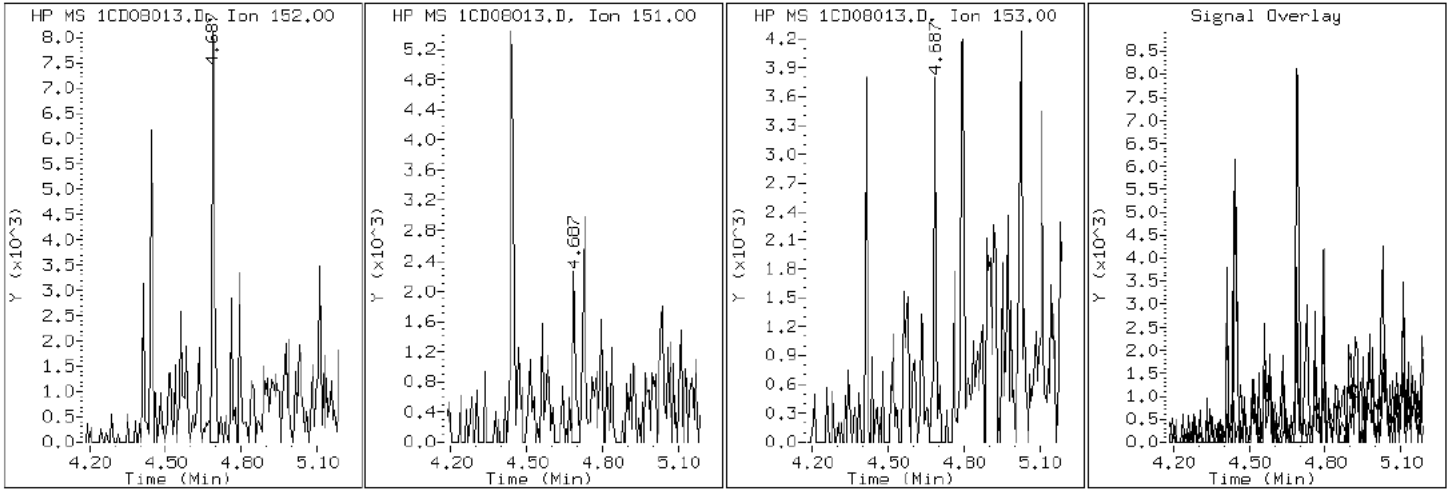
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

5 Acenaphthylene





Data File: 1CD08013.D

Date: 08-APR-2013 16:12

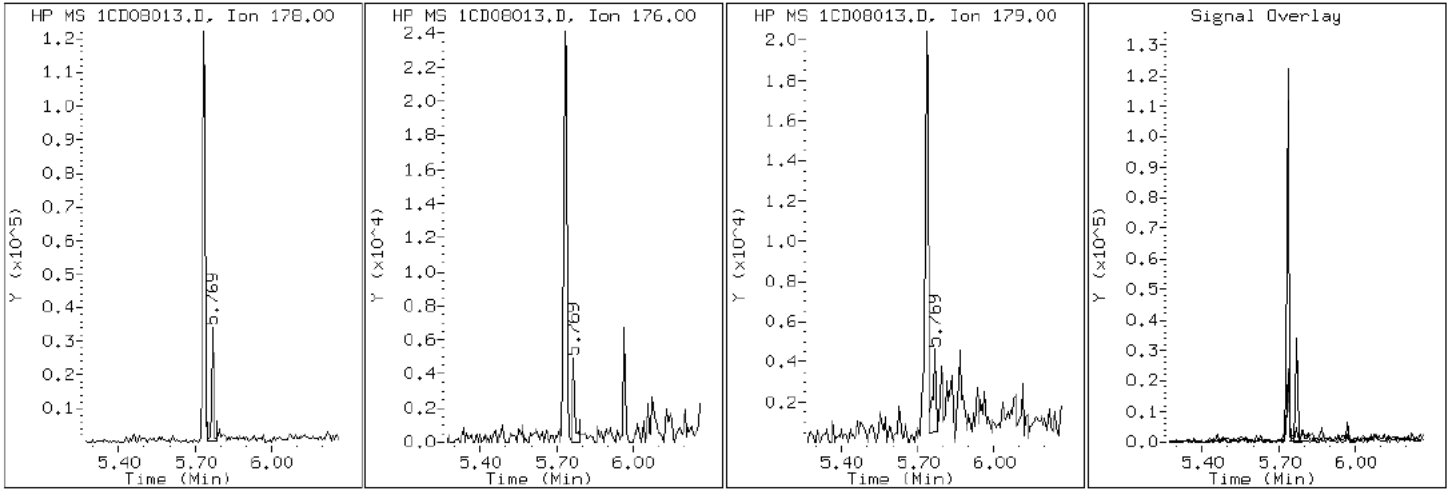
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

12 Anthracene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

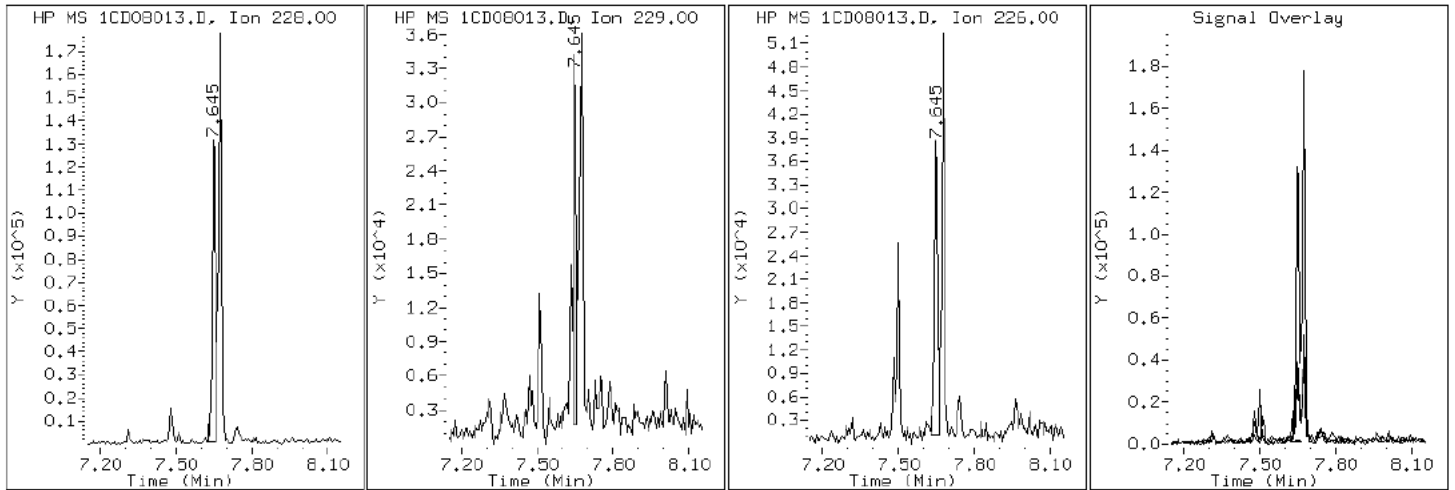
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

17 Benzo(a)anthracene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

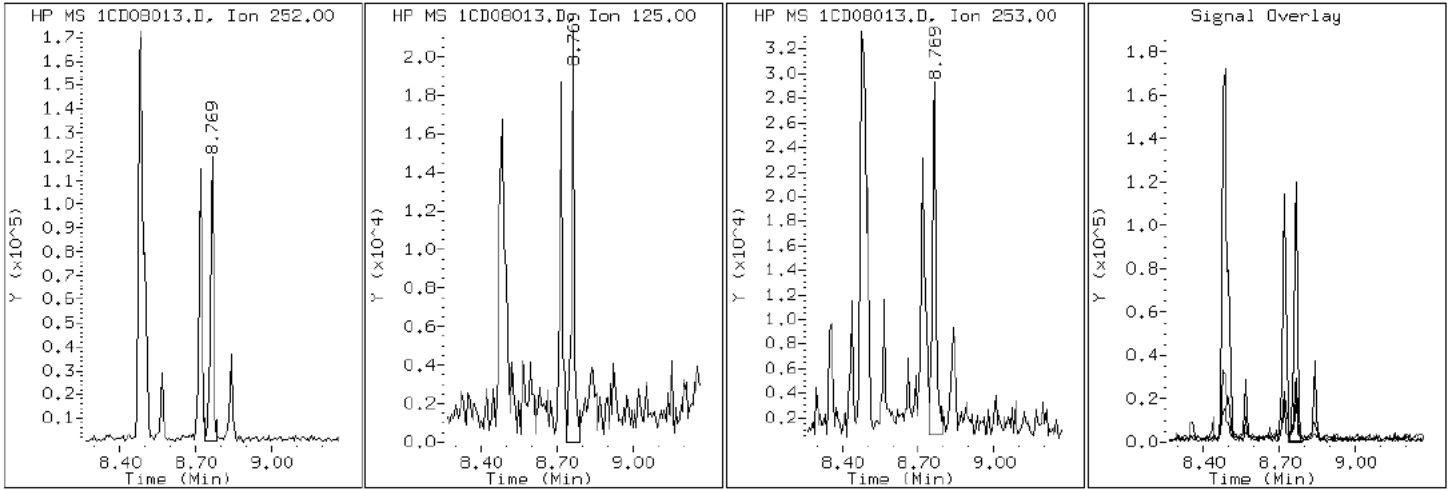
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

22 Benzo(a)pyrene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

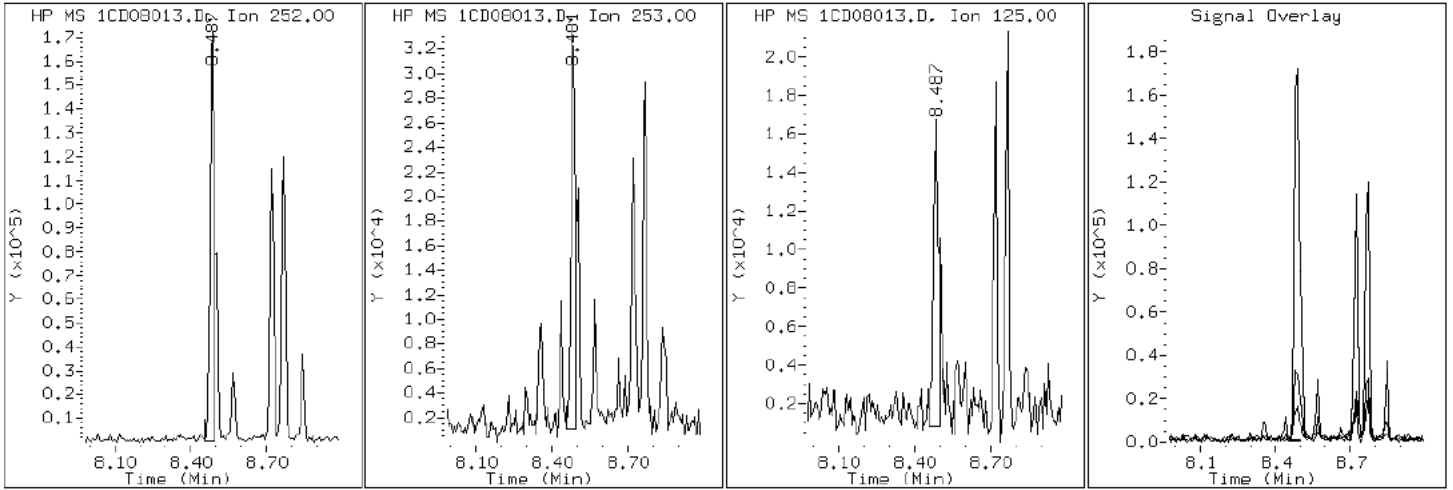
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

20 Benzo (b) fluoranthene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

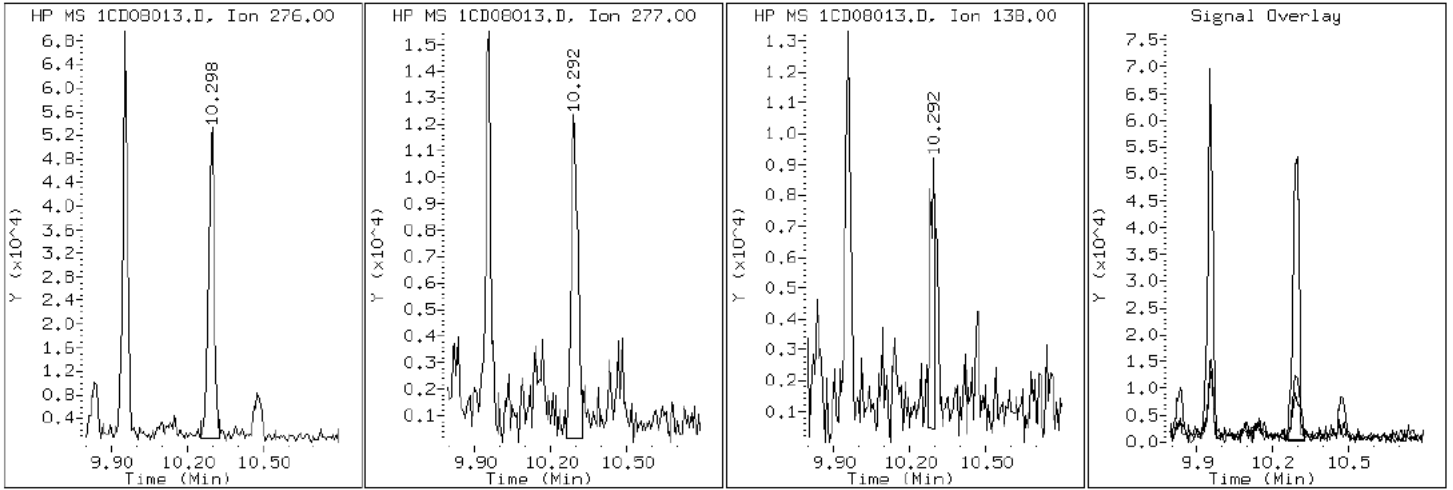
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

26 Benzo(g,h,i)perylene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

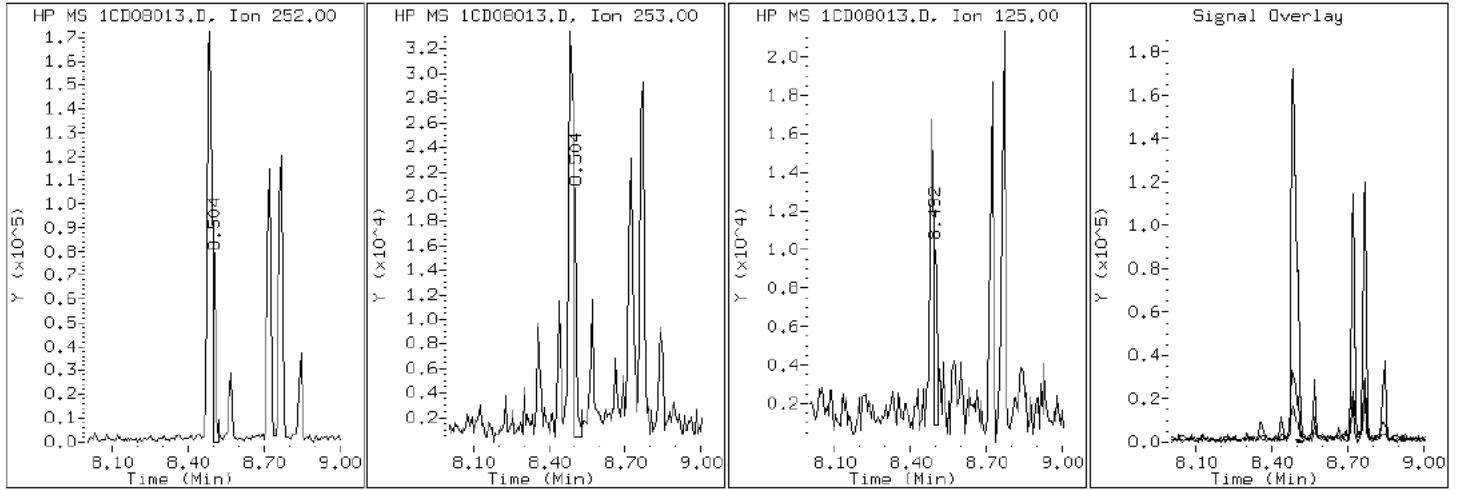
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

21 Benzo(k)fluoranthene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

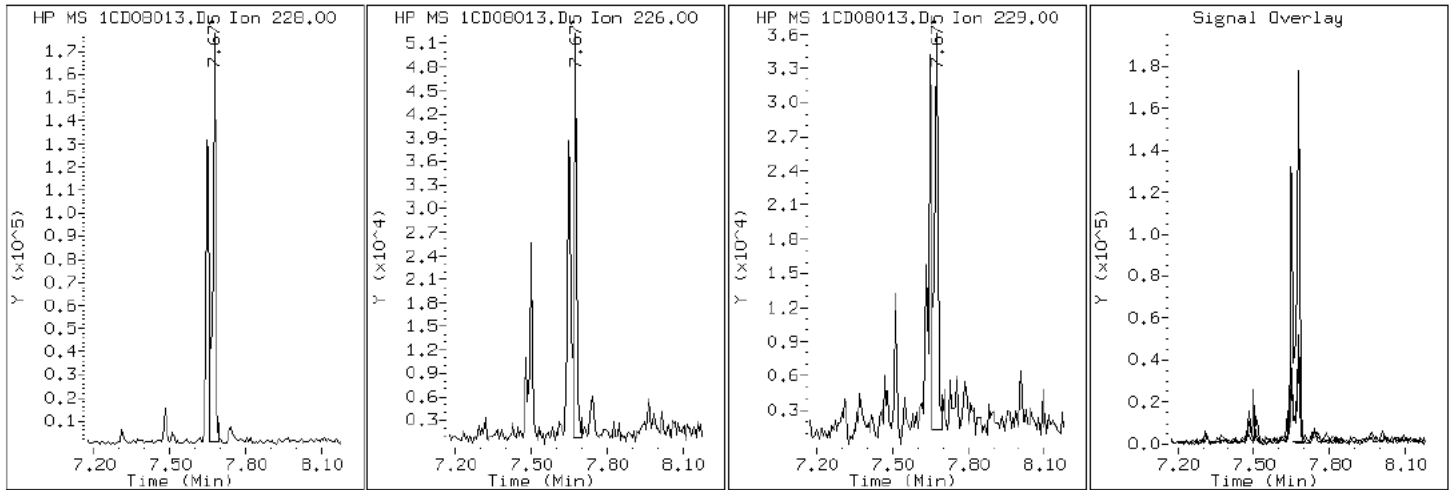
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

19 Chrysene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

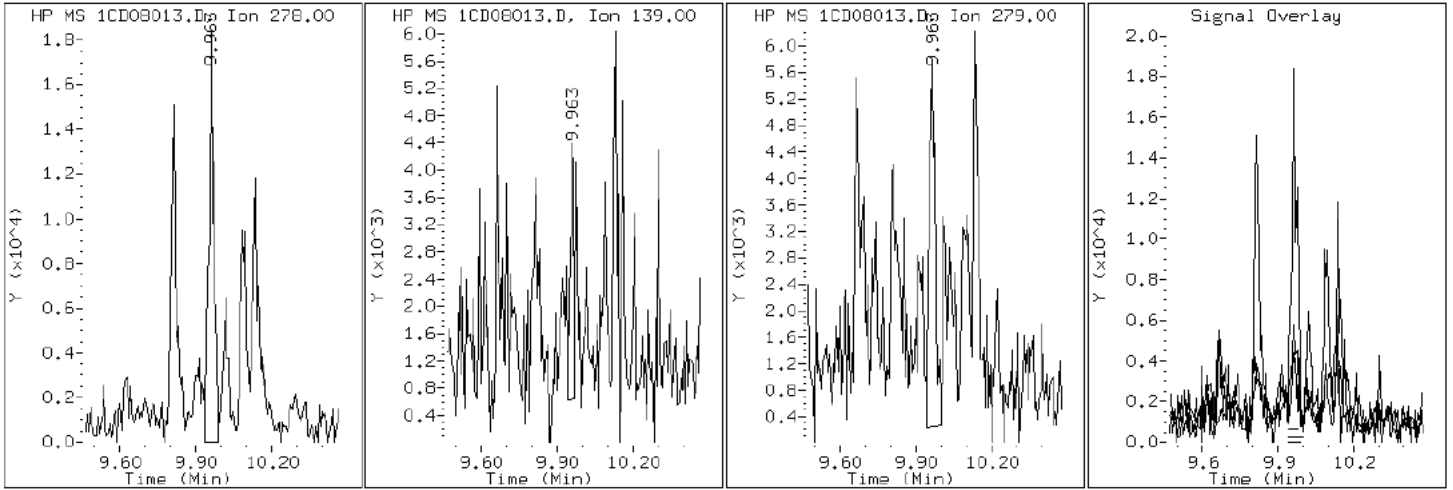
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

25 Dibenzo (a,h) anthracene





Data File: 1CD08013.D

Date: 08-APR-2013 16:12

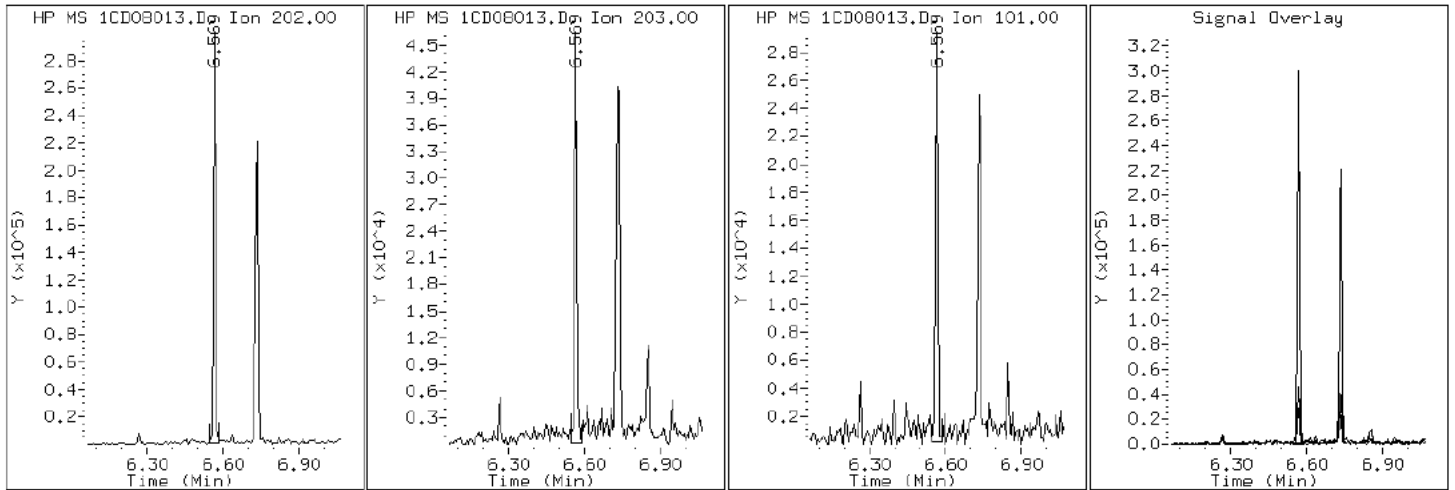
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

15 Fluoranthene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

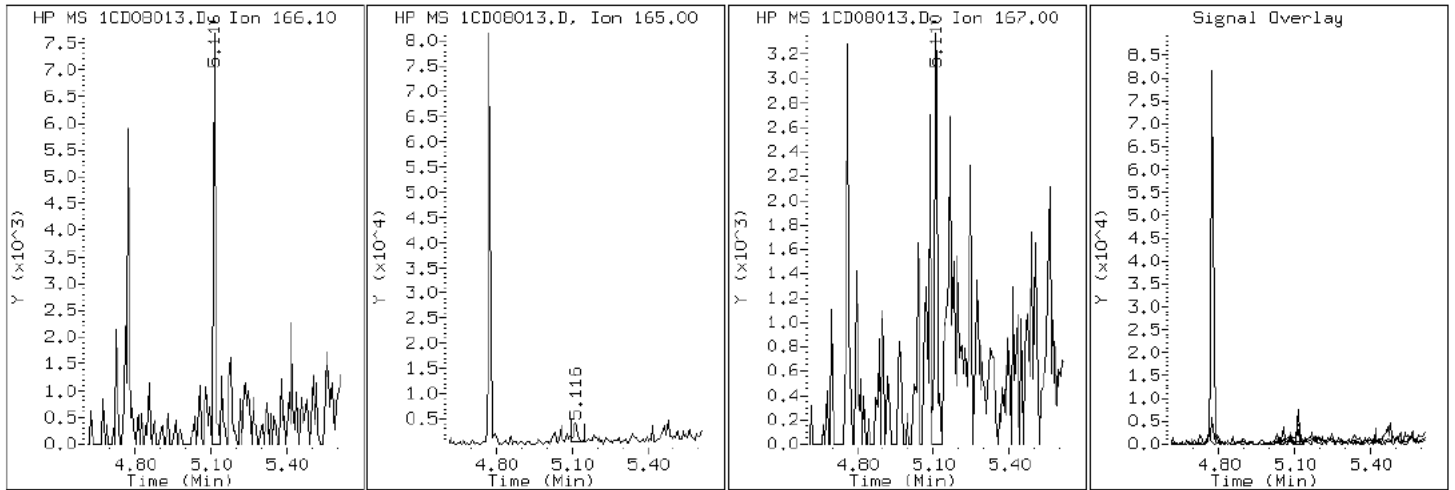
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

9 Fluorene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

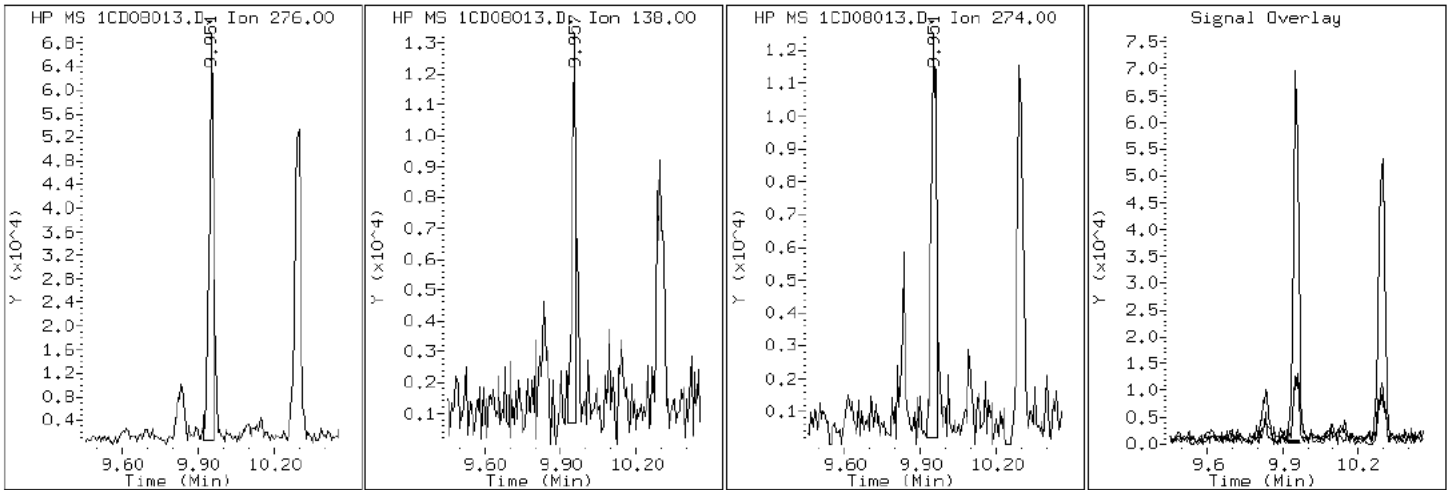
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

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



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

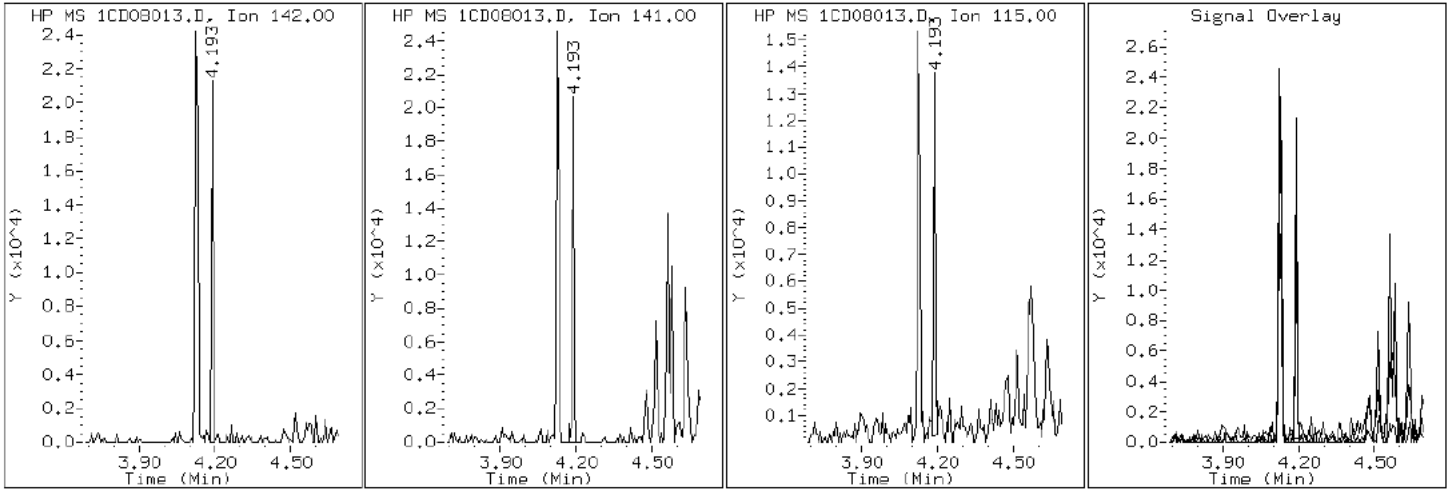
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

4 1-Methylnaphthalene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

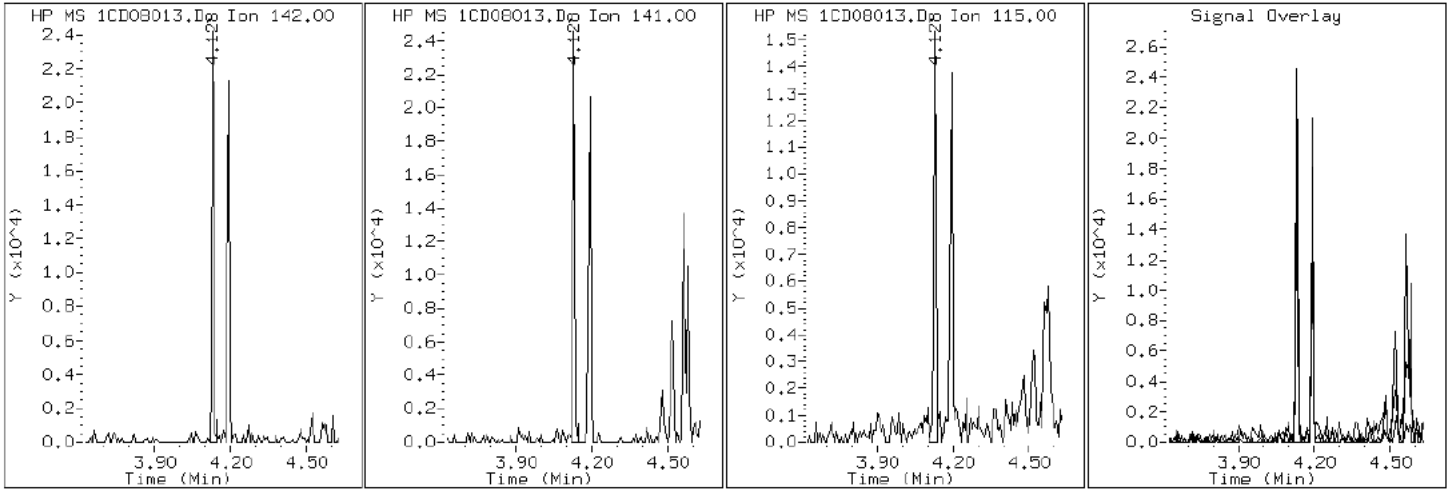
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

3 2-Methylnaphthalene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

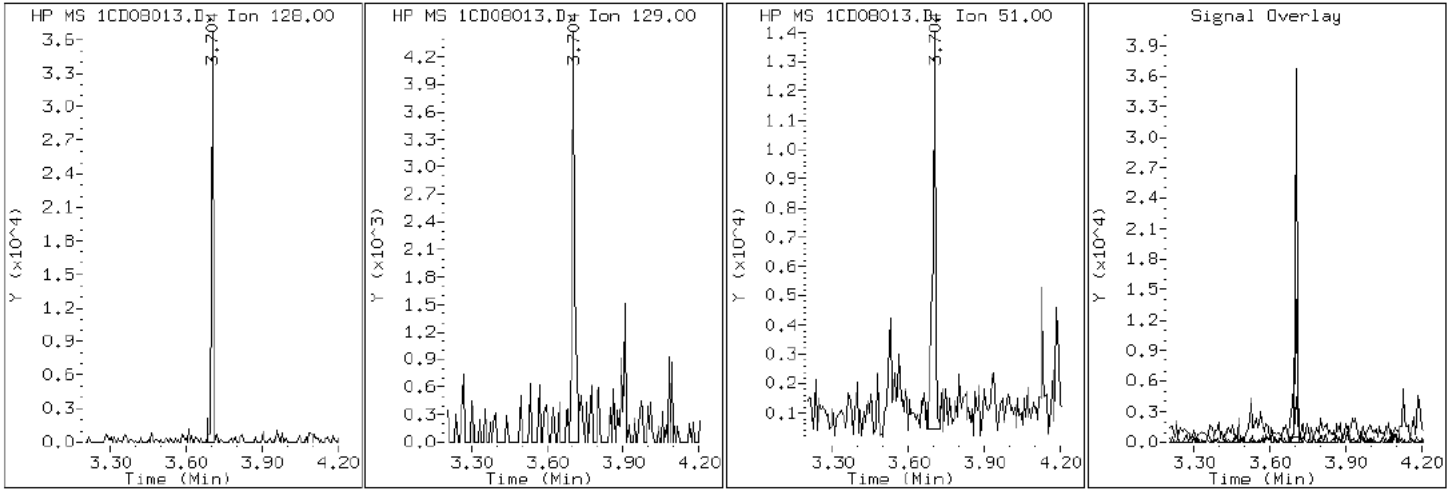
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

2 Naphthalene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

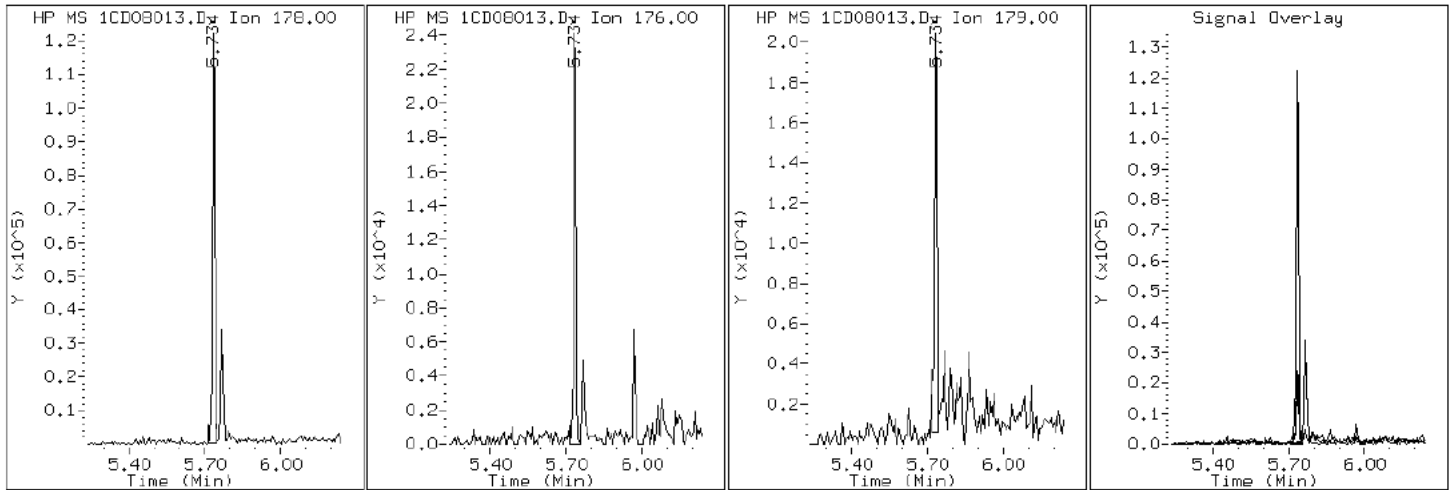
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

11 Phenanthrene



Data File: 1CD08013.D

Date: 08-APR-2013 16:12

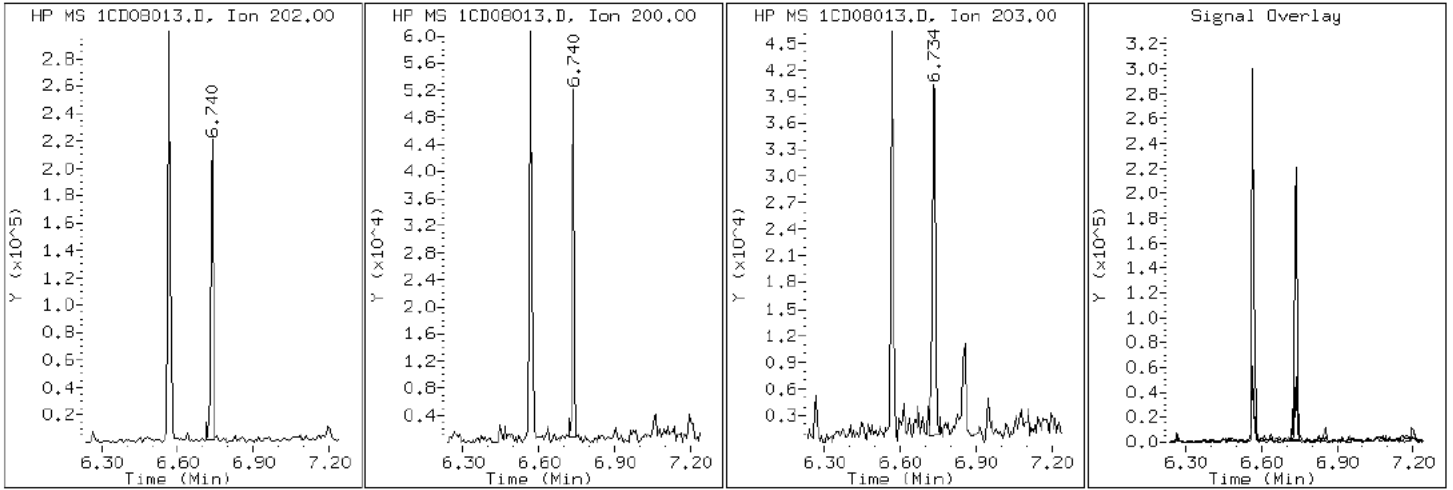
Client ID: CV1036A-CS

Instrument: BSMC5973.i

Sample Info: 680-88811-A-20-A

Operator: TP

16 Pyrene



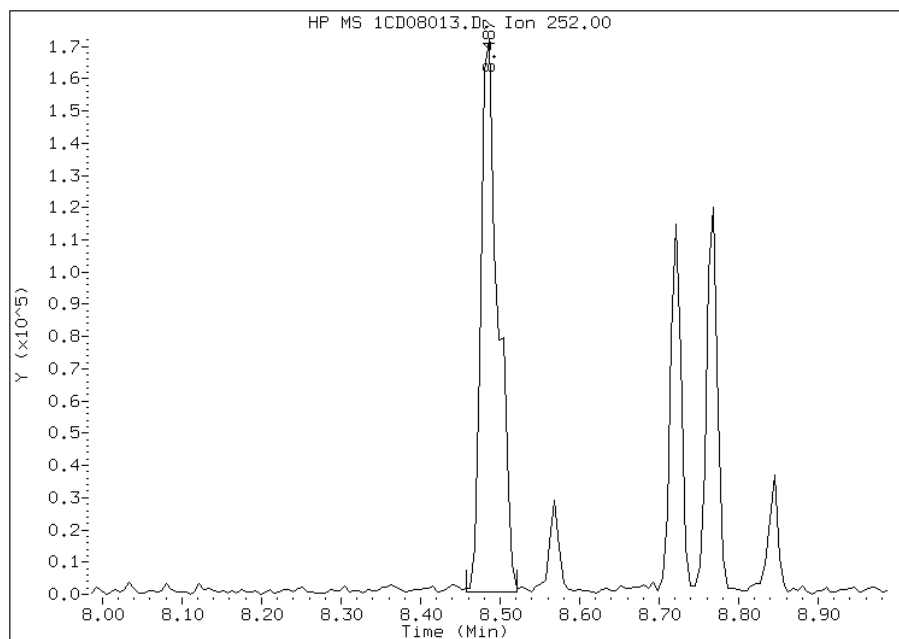


Manual Integration Report

Data File: 1CD08013.D  
Inj. Date and Time: 08-APR-2013 16:12  
Instrument ID: BSMC5973.i  
Client ID: CV1036A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/09/2013

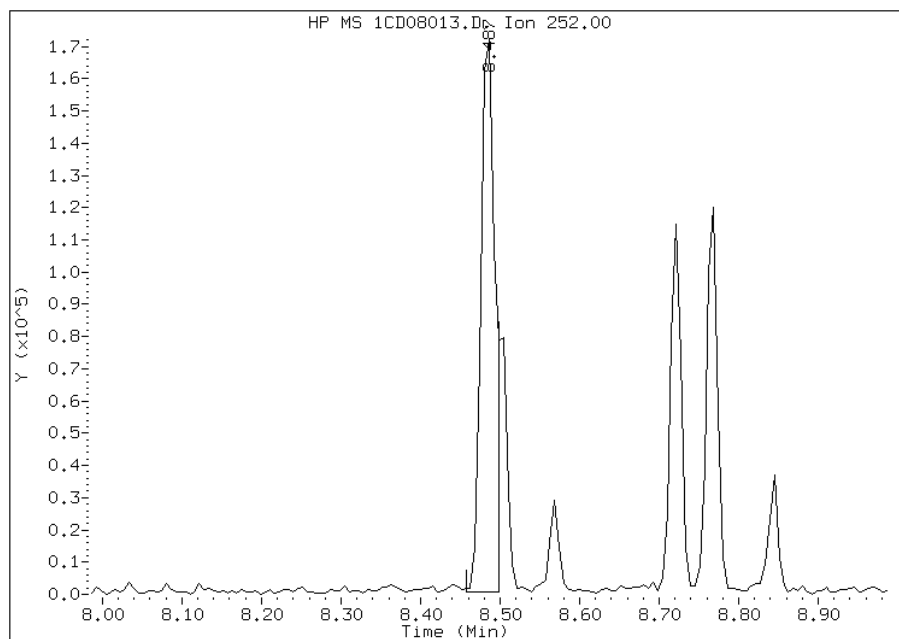
Processing Integration Results

RT: 8.49  
Response: 256094  
Amount: 14  
Conc: 1221



Manual Integration Results

RT: 8.49  
Response: 213540  
Amount: 12  
Conc: 1018



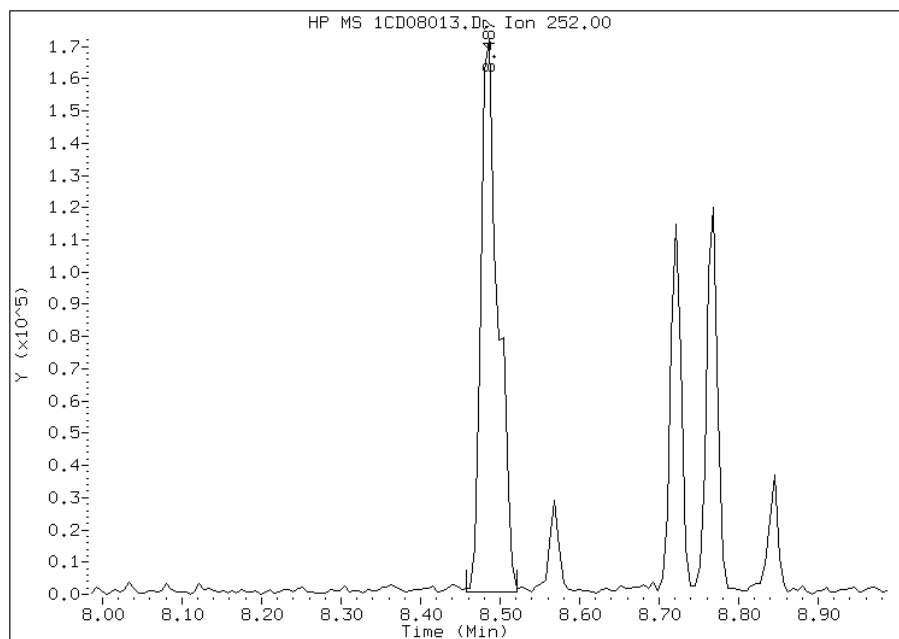
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:11  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08013.D  
Inj. Date and Time: 08-APR-2013 16:12  
Instrument ID: BSMC5973.i  
Client ID: CV1036A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

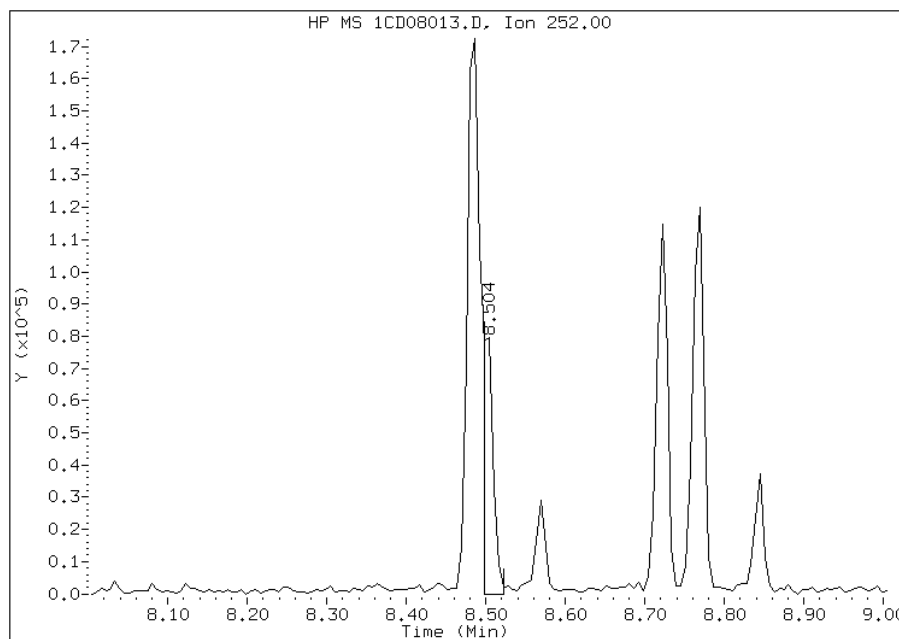
## Processing Integration Results

RT: 8.49  
Response: 255431  
Amount: 15  
Conc: 1259



## Manual Integration Results

RT: 8.50  
Response: 71694  
Amount: 4  
Conc: 353



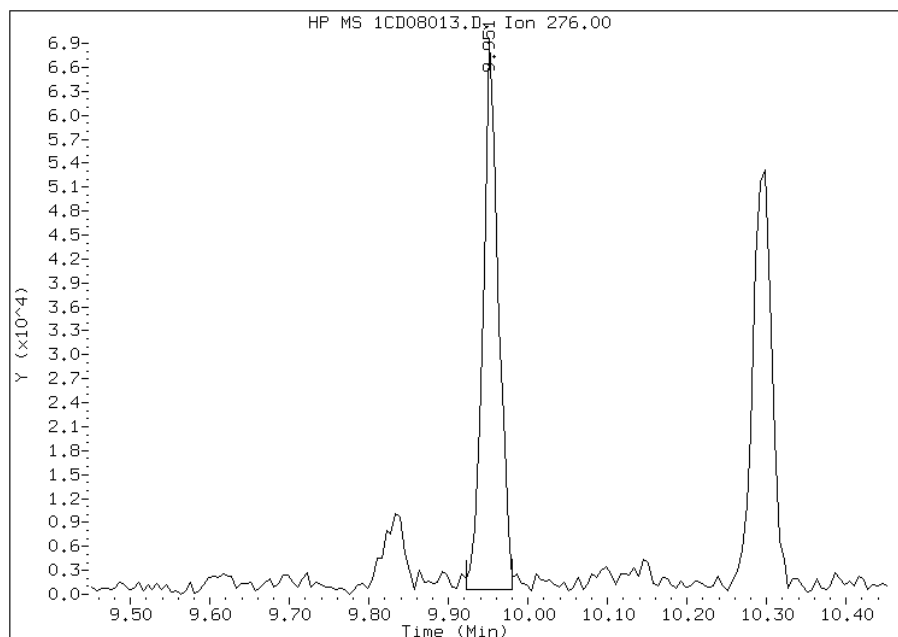
Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:11  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD08013.D  
Inj. Date and Time: 08-APR-2013 16:12  
Instrument ID: BSMC5973.i  
Client ID: CV1036A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

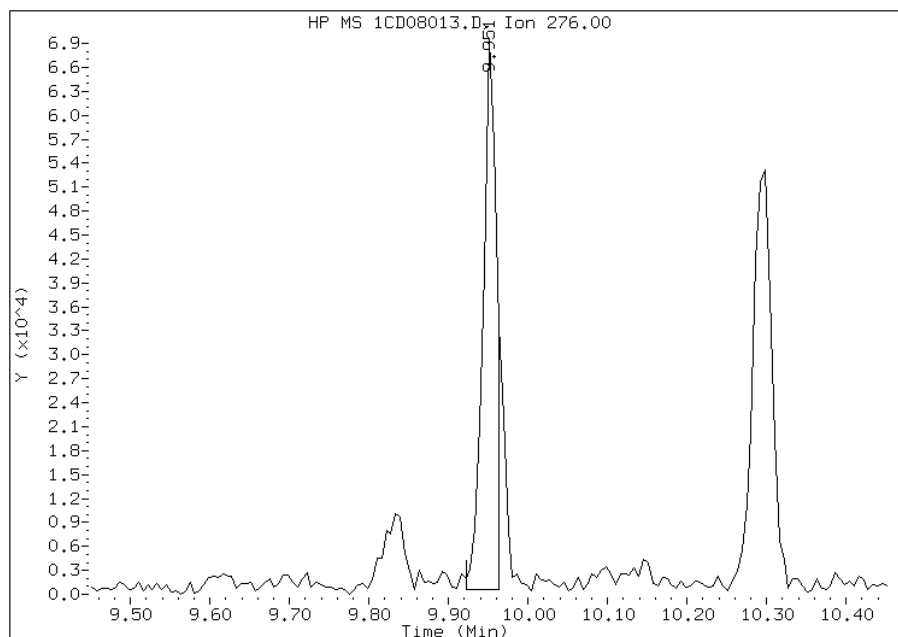
## Processing Integration Results

RT: 9.95  
Response: 92185  
Amount: 6  
Conc: 492



## Manual Integration Results

RT: 9.95  
Response: 81348  
Amount: 5  
Conc: 434



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:12  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1 Analy Batch No.: 136269

SDG No.: 68088811-1

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

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.3224 0.9765	1.4000 0.8017	1.3635	1.2150	1.0716	Qua	0.0080	0.5426	0.6857		0.0000			0.9993		0.9900	
2-Methylnaphthalene	0.7329 0.5668	0.8103 0.4772	0.7905	0.7267	0.6335	Qua	0.0053	0.9838	1.8407		0.0000			0.9999		0.9900	
1-Methylnaphthalene	0.8386 0.6150	0.9303 0.5096	0.8954	0.8140	0.7011	Qua	0.0073	0.7826	1.8237		0.0000			0.9998		0.9900	
Acenaphthylene	2.2852 2.0298	2.6251 1.6808	2.7037	2.5182	2.2909	Qua	0.0115	0.2519	0.1589		0.0000			0.9994		0.9900	
Acenaphthene	1.5922 1.0788	1.6354 0.8649	1.5785	1.4057	1.2316	Qua	0.0131	0.3660	0.7088		0.0000			0.9988		0.9900	
Fluorene	1.8212 1.3872	1.9992 1.1679	1.9526	1.7894	1.6127	Qua	0.0081	0.3641	0.3322		0.0000			0.9995		0.9900	
Phenanthrene	1.5193 1.0595	1.5667 0.8792	1.5313	1.3080	1.1973	Qua	0.0076	0.4914	0.5760		0.0000			0.9994		0.9900	
Anthracene	1.3573 1.1067	1.5429 0.9179	1.5952	1.3826	1.2521	Qua	0.0084	0.4622	0.5355		0.0000			0.9995		0.9900	
Carbazole	1.2628 1.0315	1.3986 0.9052	1.4241	1.2737	1.1703	Qua	0.0017	0.6266	0.4228		0.0000			0.9997		0.9900	
Fluoranthene	1.4701 1.2946	1.6137 1.1364	1.7586	1.5469	1.4284	Qua	0.0017	0.5289	0.2464		0.0000			0.9999		0.9900	
Pyrene	1.4282 1.4686	1.6373 1.3402	1.7458	1.6229	1.5466	Ave		1.5414			0.0000	9.0	15.0				
Benzo[a]anthracene	1.6104 1.2697	1.3097 1.2400	1.2955	1.2760	1.3387	Ave		1.3343			0.0000	9.4	15.0				
Chrysene	1.6339 1.2107	1.4418 1.1348	1.5177	1.3469	1.2400	Ave		1.3608			0.0000	13.2	15.0				
Benzo[b]fluoranthene	0.9175 1.1946	1.1320 1.1920	1.3269	1.3588	1.3681	Ave		1.2129			0.0000	13.2	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1 Analy Batch No.: 136269  
 SDG No.: 68088811-1  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N  
 Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.3268 1.2986	1.4932 1.0881	1.5477	1.4089	1.2662	Ave		1.3471			0.0000	11.4		15.0			
Benzo[a]pyrene	0.8134 1.1999	1.0851 1.1027	1.3072	1.3135	1.2775	Lin	-0.023	1.1218			0.0000				0.9948		0.9900
Indeno[1,2,3-cd]pyrene	0.7532 1.0932	0.8646 1.1587	1.0485	1.0912	1.1534	Lin	0.0100	1.1550			0.0000				0.9990		0.9900
Dibenz(a,h)anthracene	0.7178 1.0472	0.9464 1.0187	1.1445	1.1001	1.1041	Ave		1.0113			0.0000	14.3		15.0			
Benzo[g,h,i]perylene	0.8511 1.0948	1.0645 1.0908	1.2109	1.1539	1.1604	Ave		1.0895			0.0000	10.7		15.0			
o-Terphenyl	0.7785 0.6136	0.8535 0.5258	0.8734	0.7621	0.6900	Qua	0.0032	0.9810	1.3913		0.0000				0.9999		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.: 680-88811-1 Analy Batch No.: 136269

SDG No.: 68088811-1

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

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136269/4	1AD09004.D
Level 2	IC 660-136269/5	1AD09005.D
Level 3	IC 660-136269/6	1AD09006.D
Level 4	IC 660-136269/7	1AD09007.D
Level 5	ICIS 660-136269/3	1AD09003.D
Level 6	IC 660-136269/8	1AD09008.D
Level 7	IC 660-136269/9	1AD09009.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	Qua	10553 1127860	55648 1619928	276099	485647	872905	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	5849 654719	32210 964208	160075	290460	516058	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	6692 710356	36981 1029789	181314	325358	571076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	10106 1267654	56503 1835956	295444	539778	986696	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	7041 673705	35202 944792	172486	301306	530481	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	8054 866311	43032 1275723	213369	383564	694627	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	11894 1181849	59534 1731795	287355	508104	923673	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	10626 1234547	58627 1808013	299351	537109	965900	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Qua	9886 1150659	53147 1782940	267240	494781	902848	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	11509 1444198	61320 2238386	330009	600925	1101924	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12437 1510231	67963 2285792	358125	646018	1181137	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	14023 1305727	54365 2115003	265739	507927	1022353	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	14228 1244973	59848 1935588	311327	536146	946973	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	8447 1370829	49060 2346142	294818	577802	1151054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12215 1490192	64713 2141556	343870	599091	1065277	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.: 680-88811-1 Analy Batch No.: 136269

SDG No.: 68088811-1

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

Calibration Start Date: 04/09/2013 10:31 Calibration End Date: 04/09/2013 12:03 Calibration ID: 2879

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Lin	7488 1376984	47028 2170224	290438	558538	1074806	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	6934 1254537	37472 2280613	232949	463994	970417	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	6608 1201661	41017 2004976	254287	467797	928898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	7835 1256283	46132 2146933	269029	490640	976266	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	6095 684444	32431 1035762	163893	296051	532318	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

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 09-APR-2013 10:31  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.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	2.591	2.591	(1.000)	1629167	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	861420	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1542880	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	532318	20.0000	20.6392
* 18 Chrysene-d12	240	6.597	6.597	(1.000)	1527423	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1682694	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	872905	20.0000	19.9575
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	516058	20.0000	20.4343
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	571076	20.0000	20.8811
5 Acenaphthylene	152	3.531	3.531	(0.975)	986696	20.0000	20.7921
7 Acenaphthene	154	3.638	3.638	(1.004)	530481	20.0000	20.9287
9 Fluorene	166	3.953	3.953	(1.091)	694627	20.0000	21.2067
11 Phenanthrene	178	4.589	4.589	(1.004)	923673	20.0000	20.2700
12 Anthracene	178	4.626	4.626	(1.012)	965900	20.0000	20.4153
13 Carbazole	167	4.754	4.754	(1.040)	902848	20.0000	20.2782
15 Fluoranthene	202	5.454	5.454	(1.193)	1101924	20.0000	20.9677
16 Pyrene	202	5.619	5.619	(0.852)	1181137	20.0000	20.6200
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	1022353	20.0000	20.2292
19 Chrysene	228	6.613	6.613	(1.002)	946973	20.0000	19.8173
20 Benzo(b)fluoranthene	252	7.403	7.403	(0.965)	1151054	20.0000	23.6577
21 Benzo(k)fluoranthene	252	7.425	7.425	(0.967)	1065277	20.0000	20.0712
22 Benzo(a)pyrene	252	7.628	7.628	(0.994)	1074806	20.0000	22.9367
24 Indeno(1,2,3-cd)pyrene	276	8.450	8.450	(1.101)	970417	20.0000	22.2782
25 Dibenzo(a,h)anthracene	278	8.477	8.477	(1.104)	928898	20.0000	23.9724
26 Benzo(g,h,i)perylene	276	8.669	8.669	(1.129)	976266	20.0000	23.2995



Data File: 1AD09003.D

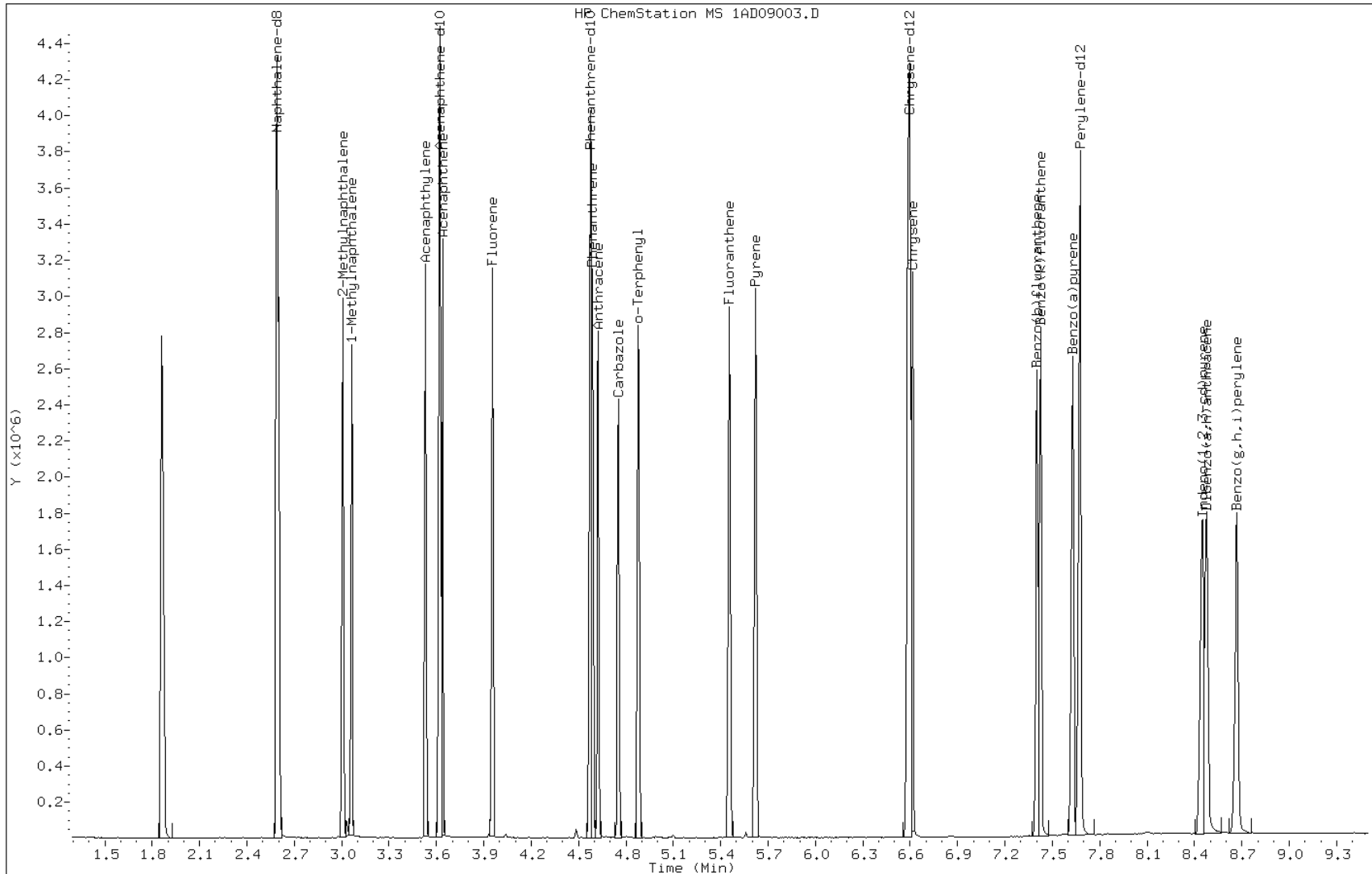
Date: 09-APR-2013 10:31

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09004.D  
 Lab Smp Id: IC-1531396  
 Inj Date : 09-APR-2013 10:48  
 Operator : SCC  
 Smp Info : IC-1531396  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 10:31 Cal File: 1AD09003.D  
 Als bottle: 4 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1596037	40.0000	
* 6 Acenaphthene-d10	164	3.621	3.622	(1.000)	884461	40.0000	
* 10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1565756	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	6095	0.20000	0.2328
* 18 Chrysene-d12	240	6.591	6.597	(1.000)	1741599	40.0000	
* 23 Perylene-d12	264	7.675	7.676	(1.000)	1841229	40.0000	
2 Naphthalene	128	2.601	2.602	(1.004)	10553	0.20000	0.3869
3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	5849	0.20000	0.4505
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	6692	0.20000	0.3937
5 Acenaphthylene	152	3.531	3.531	(0.975)	10106	0.20000	0.6062
7 Acenaphthene	154	3.638	3.638	(1.004)	7041	0.20000	0.4297
9 Fluorene	166	3.953	3.953	(1.091)	8054	0.20000	0.5455
11 Phenanthrene	178	4.588	4.589	(1.004)	11894	0.20000	0.4266
12 Anthracene	178	4.620	4.626	(1.011)	10626	0.20000	0.3310
13 Carbazole	167	4.748	4.754	(1.039)	9886	0.20000	0.2187
15 Fluoranthene	202	5.448	5.454	(1.192)	11509	0.20000	0.2157
16 Pyrene	202	5.619	5.619	(0.853)	12437	0.20000	0.1904
17 Benzo(a)anthracene	228	6.586	6.581	(0.999)	14023	0.20000	0.2433
19 Chrysene	228	6.607	6.613	(1.002)	14228	0.20000	0.2611
20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	8447	0.20000	0.1586
21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	12215	0.20000	0.2103
22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	7488	0.20000	0.1460
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	6934	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	6608	0.20000	0.1558
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	7835	0.20000	0.1708

Data File: 1AD09004.D

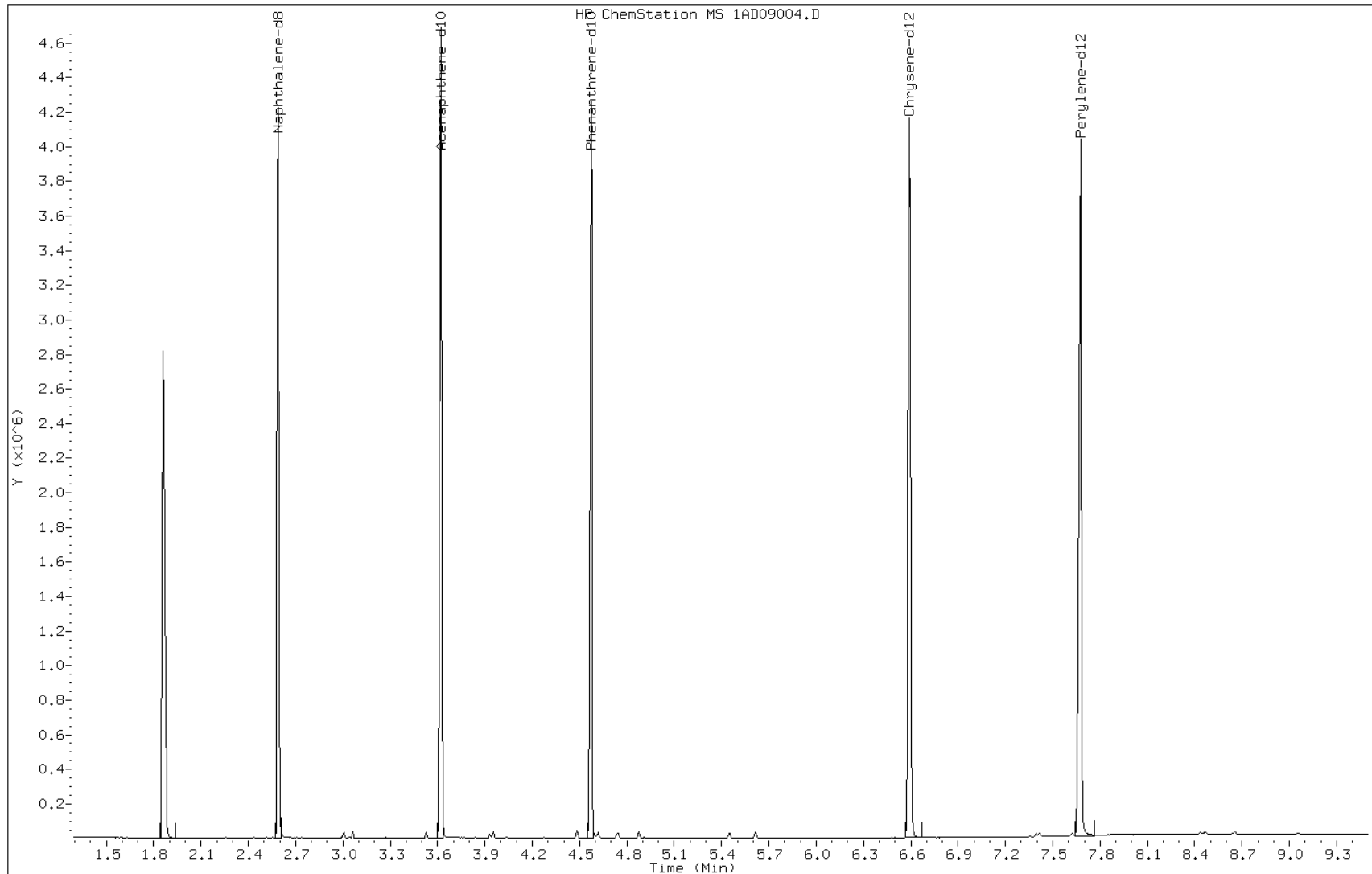
Date: 09-APR-2013 10:48

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531396

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09005.D  
 Lab Smp Id: IC-1531398  
 Inj Date : 09-APR-2013 11:04  
 Operator : SCC  
 Smp Info : IC-1531398  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 10:48 Cal File: 1AD09004.D  
 Als bottle: 5 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1589999	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	860976	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1519965	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	32431	1.00000	1.2362
* 18 Chrysene-d12	240	6.592	6.597	(1.000)	1660335	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1733524	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	55648	1.00000	1.1485
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	32210	1.00000	1.1998
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	36981	1.00000	1.1515
5 Acenaphthylene	152	3.531	3.531	(0.975)	56503	1.00000	1.2231
7 Acenaphthene	154	3.638	3.638	(1.004)	35202	1.00000	1.1716
9 Fluorene	166	3.953	3.953	(1.091)	43032	1.00000	1.2494
11 Phenanthrene	178	4.589	4.589	(1.004)	59534	1.00000	1.1943
12 Anthracene	178	4.621	4.626	(1.011)	58627	1.00000	1.0870
13 Carbazole	167	4.749	4.754	(1.039)	53147	1.00000	1.1966
15 Fluoranthene	202	5.449	5.454	(1.192)	61320	1.00000	1.1576
16 Pyrene	202	5.614	5.619	(0.852)	67963	1.00000	1.0866
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	54365	1.00000	0.9937
19 Chrysene	228	6.608	6.613	(1.002)	59848	1.00000	1.1159
20 Benzo(b)fluoranthene	252	7.393	7.403	(0.963)	49060	1.00000	0.9825
21 Benzo(k)fluoranthene	252	7.414	7.425	(0.966)	64713	1.00000	1.1596
22 Benzo(a)pyrene	252	7.622	7.628	(0.993)	47028	1.00000	0.9844
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.099)	37472	1.00000	0.9251(H)
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.103)	41017	1.00000	1.0153(M)
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.127)	46132	1.00000	1.0614(M)

QC Flag Legend

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

Data File: 1AD09005.D

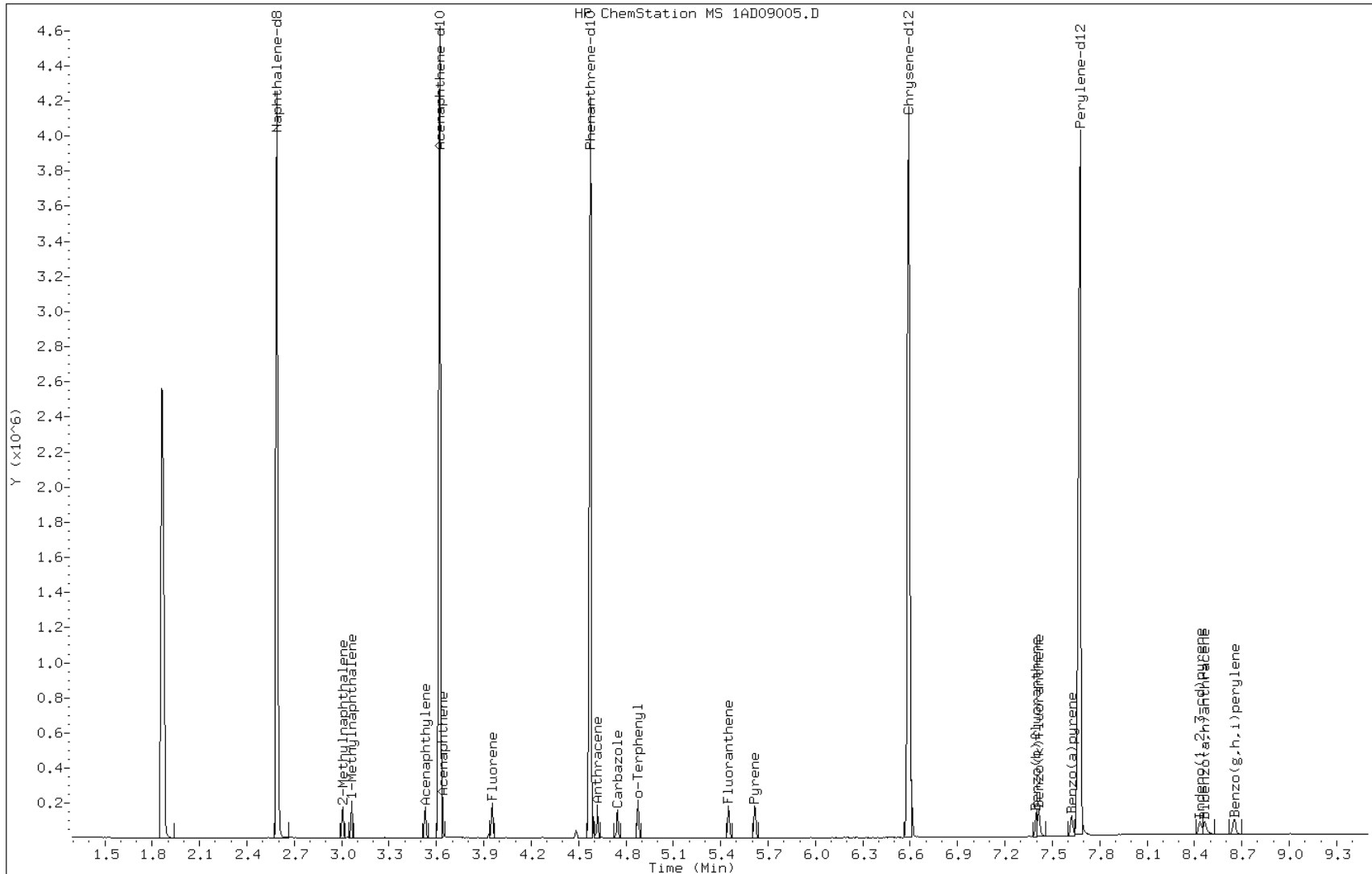
Date: 09-APR-2013 11:04

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC

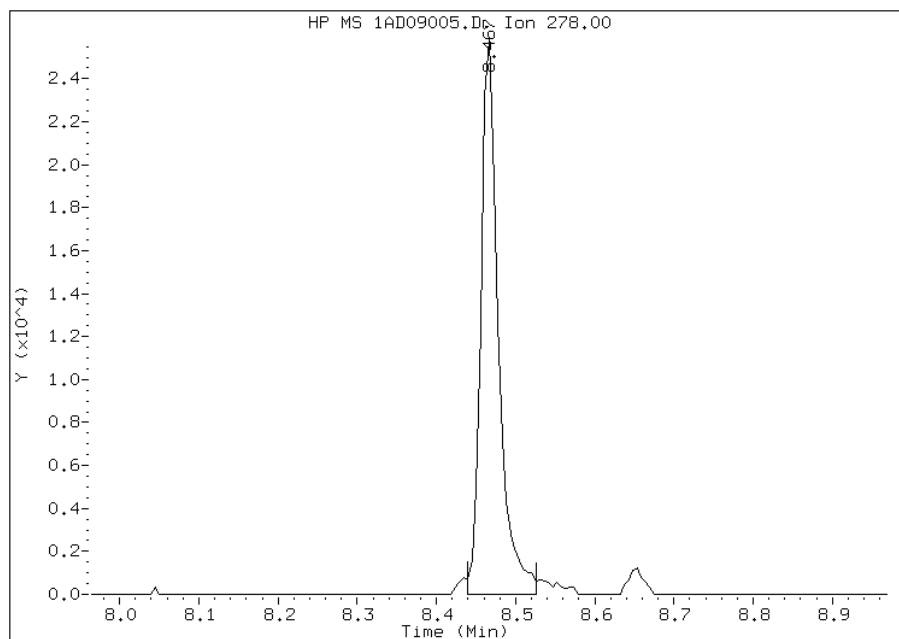


Manual Integration Report

Data File: 1AD09005.D  
Inj. Date and Time: 09-APR-2013 11:04  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

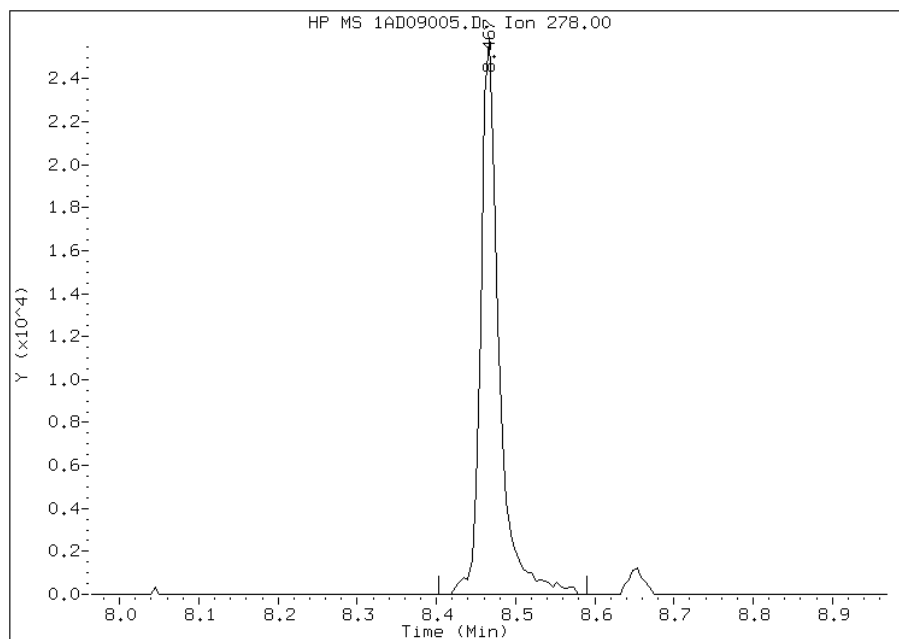
Processing Integration Results

RT: 8.47  
Response: 39194  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 8.47  
Response: 41017  
Amount: 1  
Conc: 1



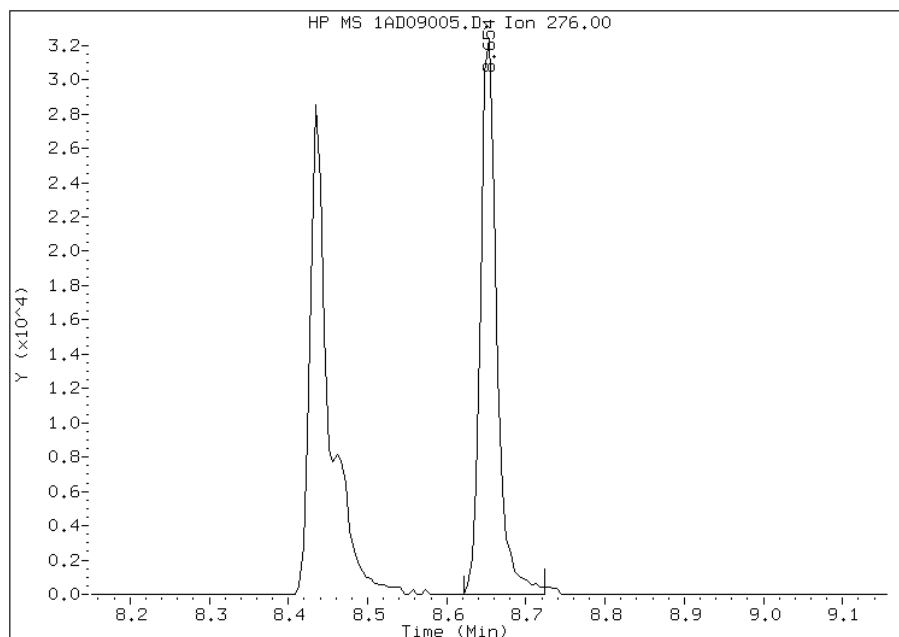
Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 12:30  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD09005.D  
Inj. Date and Time: 09-APR-2013 11:04  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/09/2013

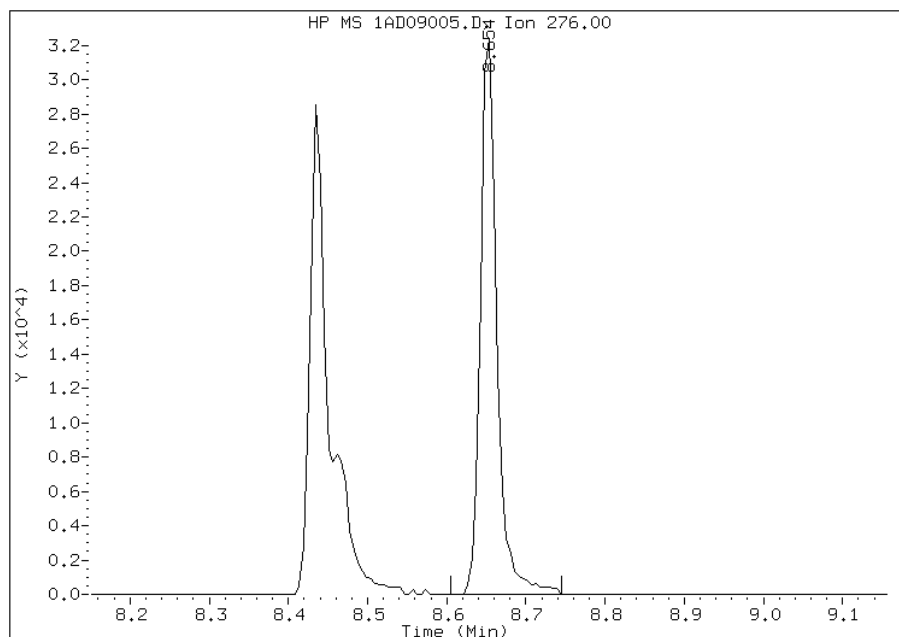
Processing Integration Results

RT: 8.65  
Response: 45759  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 8.65  
Response: 46132  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 12:31  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09006.D  
 Lab Smp Id: IC-1531399  
 Inj Date : 09-APR-2013 11:19  
 Operator : SCC  
 Smp Info : IC-1531399  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 11:04 Cal File: 1AD09005.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.587	2.591	(1.000)	1619963	40.0000	
* 6 Acenaphthene-d10	164	3.618	3.622	(1.000)	874198	40.0000	
* 10 Phenanthrene-d10	188	4.574	4.573	(1.000)	1501226	40.0000	
\$ 14 o-Terphenyl	230	4.879	4.877	(1.067)	163893	5.00000	6.1874
* 18 Chrysene-d12	240	6.593	6.597	(1.000)	1641042	40.0000	
* 23 Perylene-d12	264	7.672	7.676	(1.000)	1777421	40.0000	
2 Naphthalene	128	2.598	2.602	(1.004)	276099	5.00000	5.2441
3 2-Methylnaphthalene	141	3.004	3.008	(1.161)	160075	5.00000	5.2349
4 1-Methylnaphthalene	142	3.063	3.061	(1.184)	181314	5.00000	5.2534
5 Acenaphthylene	152	3.527	3.531	(0.975)	295444	5.00000	4.8504
7 Acenaphthene	154	3.634	3.638	(1.004)	172486	5.00000	5.2897
9 Fluorene	166	3.949	3.953	(1.092)	213369	5.00000	5.1212
11 Phenanthrene	178	4.585	4.589	(1.002)	287355	5.00000	5.3602
12 Anthracene	178	4.622	4.626	(1.011)	299351	5.00000	5.3674
13 Carbazole	167	4.750	4.754	(1.039)	267240	5.00000	6.0094
15 Fluoranthene	202	5.450	5.454	(1.191)	330009	5.00000	6.2143
16 Pyrene	202	5.616	5.619	(0.852)	358125	5.00000	5.7292
17 Benzo(a)anthracene	228	6.582	6.581	(0.998)	265739	5.00000	4.9027
19 Chrysene	228	6.609	6.613	(1.002)	311327	5.00000	5.7795
20 Benzo(b)fluoranthene	252	7.394	7.403	(0.964)	294818	5.00000	5.6461
21 Benzo(k)fluoranthene	252	7.416	7.425	(0.967)	343870	5.00000	5.8943
22 Benzo(a)pyrene	252	7.619	7.628	(0.993)	290438	5.00000	5.8709
24 Indeno(1,2,3-cd)pyrene	276	8.436	8.450	(1.100)	232949	5.00000	5.1117
25 Dibenzo(a,h)anthracene	278	8.462	8.477	(1.103)	254287	5.00000	6.0020(M)
26 Benzo(g,h,i)perylene	276	8.649	8.669	(1.127)	269029	5.00000	5.9013

QC Flag Legend

M - Compound response manually integrated.



Data File: 1AD09006.D

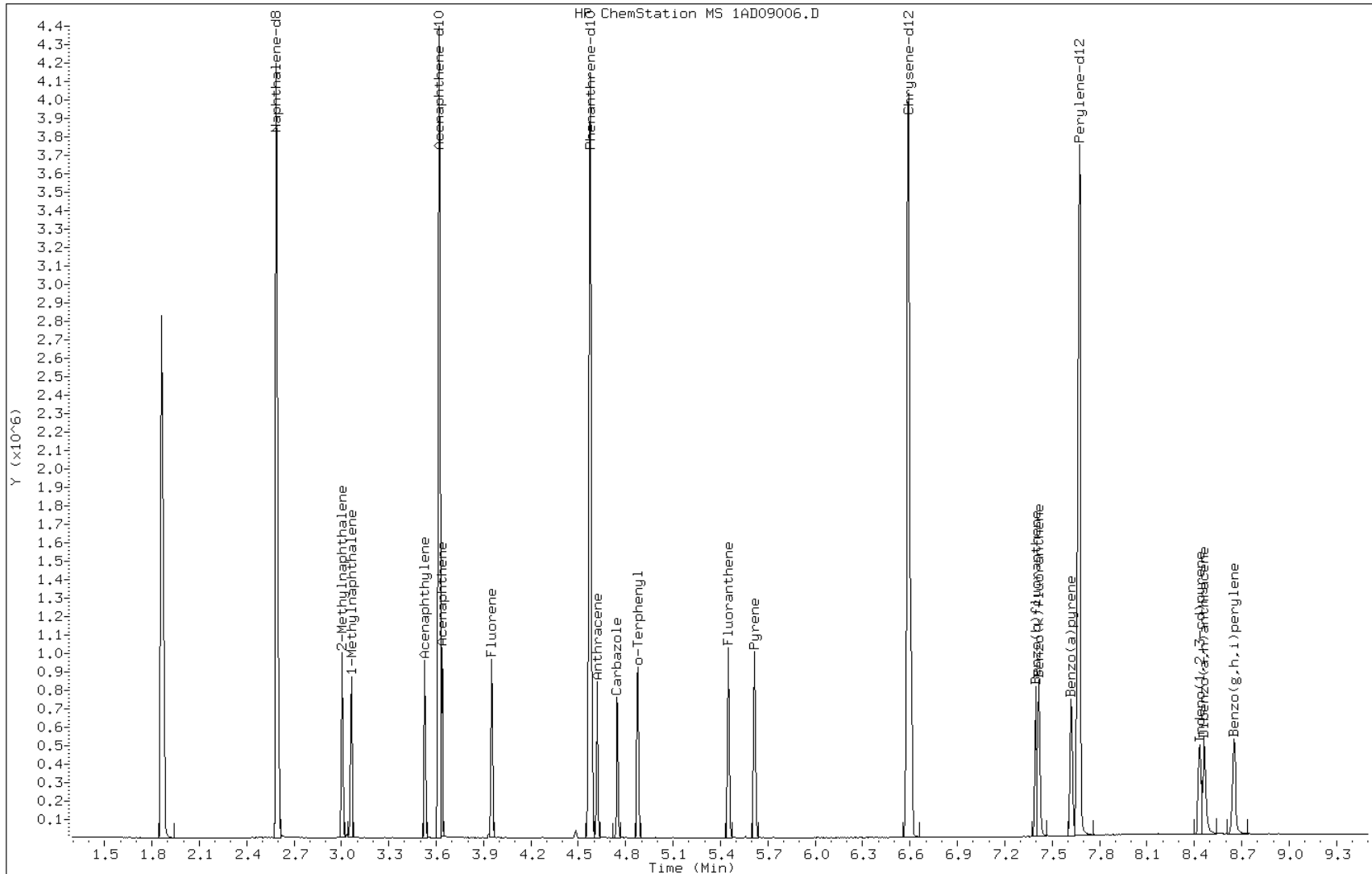
Date: 09-APR-2013 11:19

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC

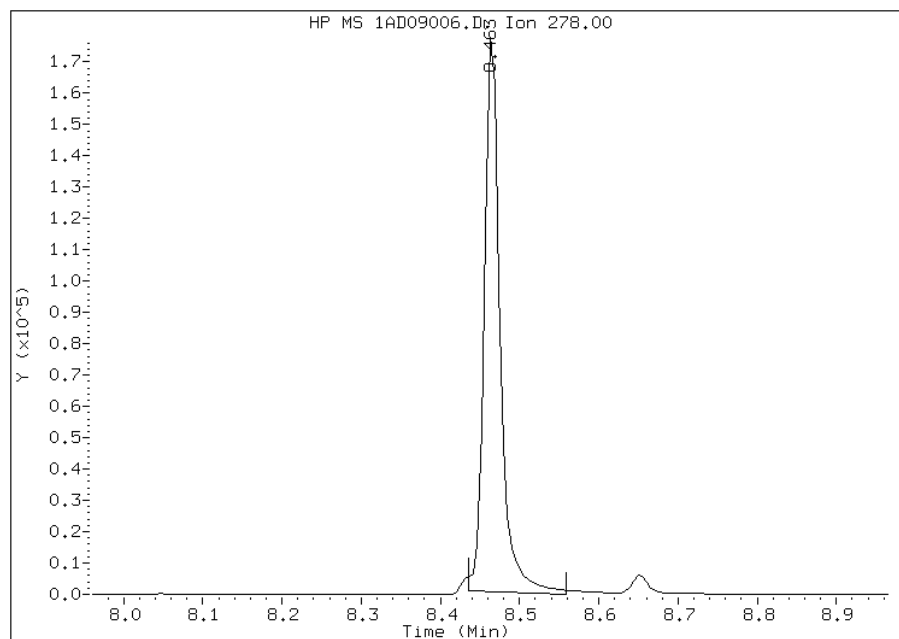


# Manual Integration Report

Data File: 1AD09006.D  
Inj. Date and Time: 09-APR-2013 11:19  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/09/2013

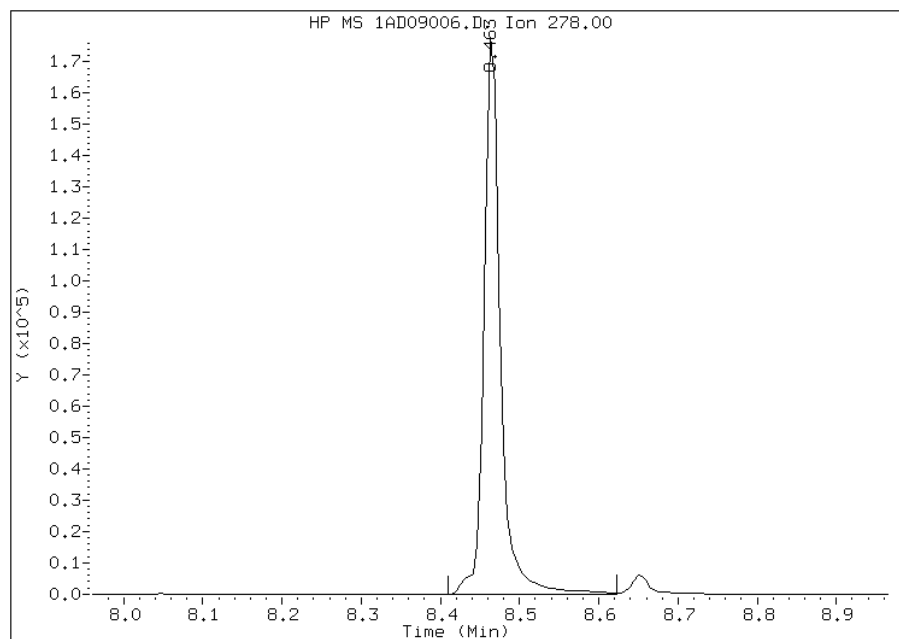
## Processing Integration Results

RT: 8.46  
Response: 243239  
Amount: 6  
Conc: 6



## Manual Integration Results

RT: 8.46  
Response: 254287  
Amount: 6  
Conc: 6



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 12:31  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09007.D  
 Lab Smp Id: IC-1531400  
 Inj Date : 09-APR-2013 11:33  
 Operator : SCC  
 Smp Info : IC-1531400  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 11:19 Cal File: 1AD09006.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1598776	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	857411	40.0000	
* 10 Phenanthrene-d10	188	4.573	4.573	(1.000)	1553879	40.0000	
\$ 14 o-Terphenyl	230	4.877	4.877	(1.067)	296051	10.0000	10.6256
* 18 Chrysene-d12	240	6.591	6.597	(1.000)	1592296	40.0000	
* 23 Perylene-d12	264	7.670	7.676	(1.000)	1700858	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	485647	10.0000	9.9295
3 2-Methylnaphthalene	141	3.008	3.008	(1.161)	290460	10.0000	10.2364
4 1-Methylnaphthalene	142	3.061	3.061	(1.181)	325358	10.0000	10.3683
5 Acenaphthylene	152	3.531	3.531	(0.975)	539778	10.0000	9.6764
7 Acenaphthene	154	3.638	3.638	(1.004)	301306	10.0000	10.2149
9 Fluorene	166	3.953	3.953	(1.091)	383564	10.0000	10.0269
11 Phenanthrene	178	4.589	4.589	(1.004)	508104	10.0000	9.6197
12 Anthracene	178	4.621	4.626	(1.011)	537109	10.0000	9.8618
13 Carbazole	167	4.749	4.754	(1.039)	494781	10.0000	10.6152
15 Fluoranthene	202	5.454	5.454	(1.193)	600925	10.0000	10.7198
16 Pyrene	202	5.619	5.619	(0.853)	646018	10.0000	10.5680
17 Benzo(a)anthracene	228	6.581	6.581	(0.998)	507927	10.0000	9.6156
19 Chrysene	228	6.607	6.613	(1.002)	536146	10.0000	10.0748
20 Benzo(b)fluoranthene	252	7.398	7.403	(0.964)	577802	10.0000	11.5370
21 Benzo(k)fluoranthene	252	7.419	7.425	(0.967)	599091	10.0000	10.5145
22 Benzo(a)pyrene	252	7.622	7.628	(0.994)	558538	10.0000	11.5949
24 Indeno(1,2,3-cd)pyrene	276	8.434	8.450	(1.100)	463994	10.0000	10.4559
25 Dibenzo(a,h)anthracene	278	8.466	8.477	(1.104)	467797	10.0000	11.2448
26 Benzo(g,h,i)perylene	276	8.653	8.669	(1.128)	490640	10.0000	10.9587

Data File: 1AD09007.D

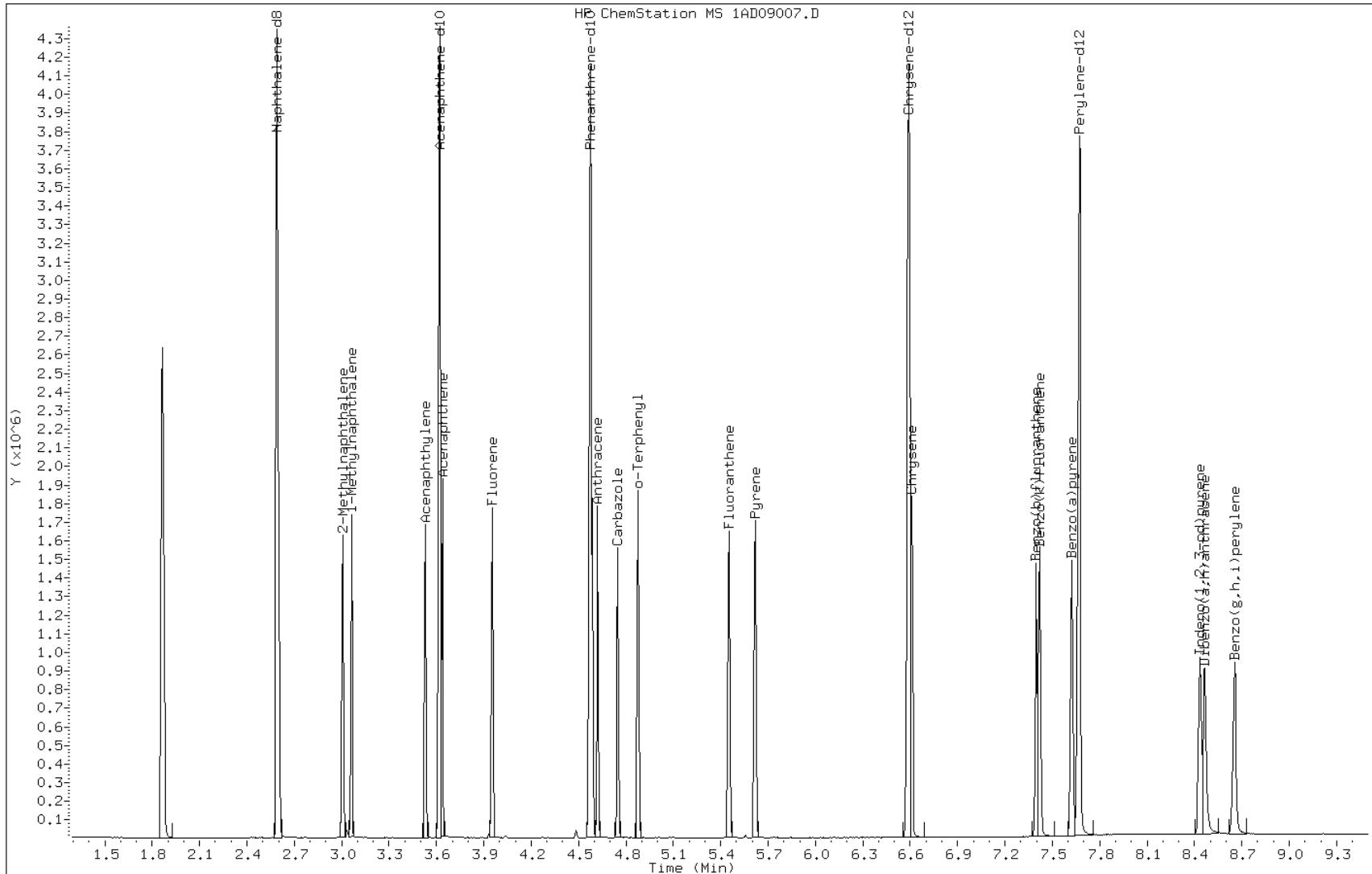
Date: 09-APR-2013 11:33

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09008.D  
 Lab Smp Id: IC-1531402  
 Inj Date : 09-APR-2013 11:49  
 Operator : SCC  
 Smp Info : IC-1531402  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 11:33 Cal File: 1AD09007.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	2.589	2.591	(1.000)	1540056	40.0000	
* 6 Acenaphthene-d10	164	3.620	3.622	(1.000)	832688	40.0000	
* 10 Phenanthrene-d10	188	4.576	4.573	(1.000)	1487352	40.0000	
\$ 14 o-Terphenyl	230	4.880	4.877	(1.067)	684444	30.0000	25.3467
* 18 Chrysene-d12	240	6.595	6.597	(1.000)	1371124	40.0000	
* 23 Perylene-d12	264	7.674	7.676	(1.000)	1530063	40.0000	
2 Naphthalene	128	2.600	2.602	(1.004)	1127860	30.0000	29.9432
3 2-Methylnaphthalene	141	3.006	3.008	(1.161)	654719	30.0000	29.9345
4 1-Methylnaphthalene	142	3.064	3.061	(1.184)	710356	30.0000	30.1606
5 Acenaphthylene	152	3.529	3.531	(0.975)	1267654	30.0000	30.7339
7 Acenaphthene	154	3.641	3.638	(1.006)	673705	30.0000	30.1389
9 Fluorene	166	3.956	3.953	(1.093)	866311	30.0000	29.7705
11 Phenanthrene	178	4.592	4.589	(1.003)	1181849	30.0000	29.2539
12 Anthracene	178	4.624	4.626	(1.011)	1234547	30.0000	29.3561
13 Carbazole	167	4.752	4.754	(1.039)	1150659	30.0000	25.5465
15 Fluoranthene	202	5.457	5.454	(1.193)	1444198	30.0000	26.6621
16 Pyrene	202	5.623	5.619	(0.853)	1510231	30.0000	28.5401
17 Benzo(a)anthracene	228	6.584	6.581	(0.998)	1305727	30.0000	28.4543
19 Chrysene	228	6.616	6.613	(1.003)	1244973	30.0000	26.9339
20 Benzo(b)fluoranthene	252	7.401	7.403	(0.965)	1370829	30.0000	29.7706
21 Benzo(k)fluoranthene	252	7.428	7.425	(0.968)	1490192	30.0000	28.9795
22 Benzo(a)pyrene	252	7.631	7.628	(0.994)	1376984	30.0000	31.2508
24 Indeno(1,2,3-cd)pyrene	276	8.448	8.450	(1.101)	1254537	30.0000	31.4946
25 Dibenzo(a,h)anthracene	278	8.475	8.477	(1.104)	1201661	30.0000	31.5452
26 Benzo(g,h,i)perylene	276	8.667	8.669	(1.129)	1256283	30.0000	30.6309

Data File: 1AD09008.D

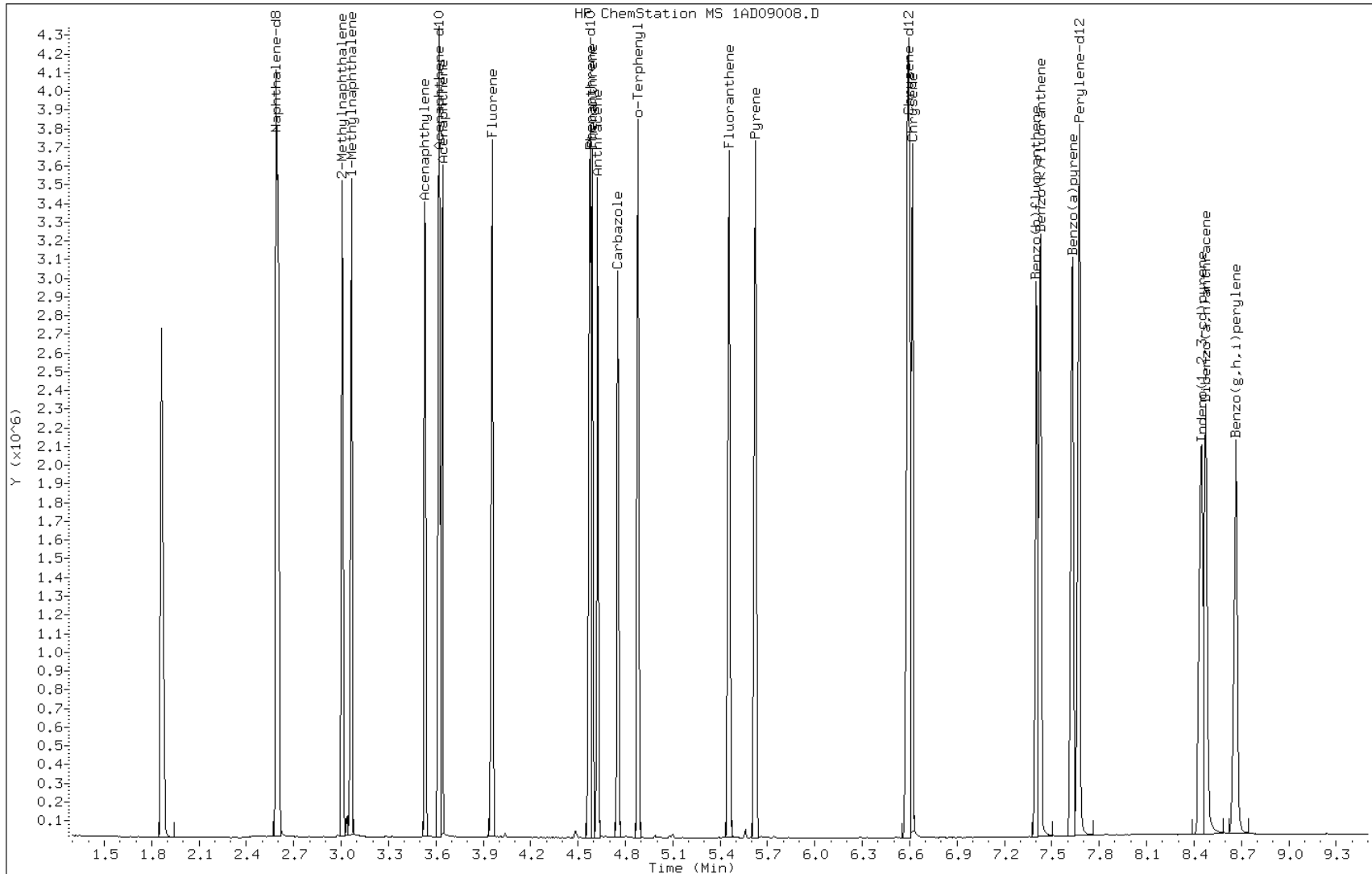
Date: 09-APR-2013 11:49

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531402

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09009.D  
 Lab Smp Id: IC-1531403  
 Inj Date : 09-APR-2013 12:03  
 Operator : SCC  
 Smp Info : IC-1531403  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:17 BSMA5973.i Quant Type: ISTD  
 Cal Date : 09-APR-2013 11:49 Cal File: 1AD09008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.591	2.591	(1.000)	1616496	40.0000	
* 6 Acenaphthene-d10	164	3.622	3.622	(1.000)	873865	40.0000	
* 10 Phenanthrene-d10	188	4.572	4.573	(1.000)	1575809	40.0000	
\$ 14 o-Terphenyl	230	4.882	4.877	(1.068)	1035762	50.0000	36.1399
* 18 Chrysene-d12	240	6.602	6.597	(1.000)	1364496	40.0000	
* 23 Perylene-d12	264	7.676	7.676	(1.000)	1574534	40.0000	
2 Naphthalene	128	2.602	2.602	(1.004)	1619928	50.0000	46.4915
3 2-Methylnaphthalene	141	3.007	3.008	(1.161)	964208	50.0000	48.4523
4 1-Methylnaphthalene	142	3.066	3.061	(1.183)	1029789	50.0000	48.2198
5 Acenaphthylene	152	3.531	3.531	(0.975)	1835956	50.0000	49.5157
7 Acenaphthene	154	3.643	3.638	(1.006)	944792	50.0000	45.9717
9 Fluorene	166	3.958	3.953	(1.093)	1275723	50.0000	48.8799
11 Phenanthrene	178	4.594	4.589	(1.005)	1731795	50.0000	46.2239
12 Anthracene	178	4.631	4.626	(1.013)	1808013	50.0000	46.1457
13 Carbazole	167	4.759	4.754	(1.041)	1782940	50.0000	37.4205
15 Fluoranthene	202	5.459	5.454	(1.194)	2238386	50.0000	38.9757
16 Pyrene	202	5.630	5.619	(0.853)	2285792	50.0000	43.4140
17 Benzo(a)anthracene	228	6.586	6.581	(0.998)	2115003	50.0000	46.3618
19 Chrysene	228	6.623	6.613	(1.003)	1935588	50.0000	41.8553
20 Benzo(b)fluoranthene	252	7.409	7.403	(0.965)	2346142	50.0000	49.7155
21 Benzo(k)fluoranthene	252	7.435	7.425	(0.969)	2141556	50.0000	40.0784(M)
22 Benzo(a)pyrene	252	7.638	7.628	(0.995)	2170224	50.0000	47.6951
24 Indeno(1,2,3-cd)pyrene	276	8.461	8.450	(1.102)	2280613	50.0000	54.9725(A)
25 Dibenzo(a,h)anthracene	278	8.487	8.477	(1.106)	2004976	50.0000	50.7196(A)
26 Benzo(g,h,i)perylene	276	8.685	8.669	(1.132)	2146933	50.0000	50.5756(A)

QC Flag Legend

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

Data File: 1AD09009.D

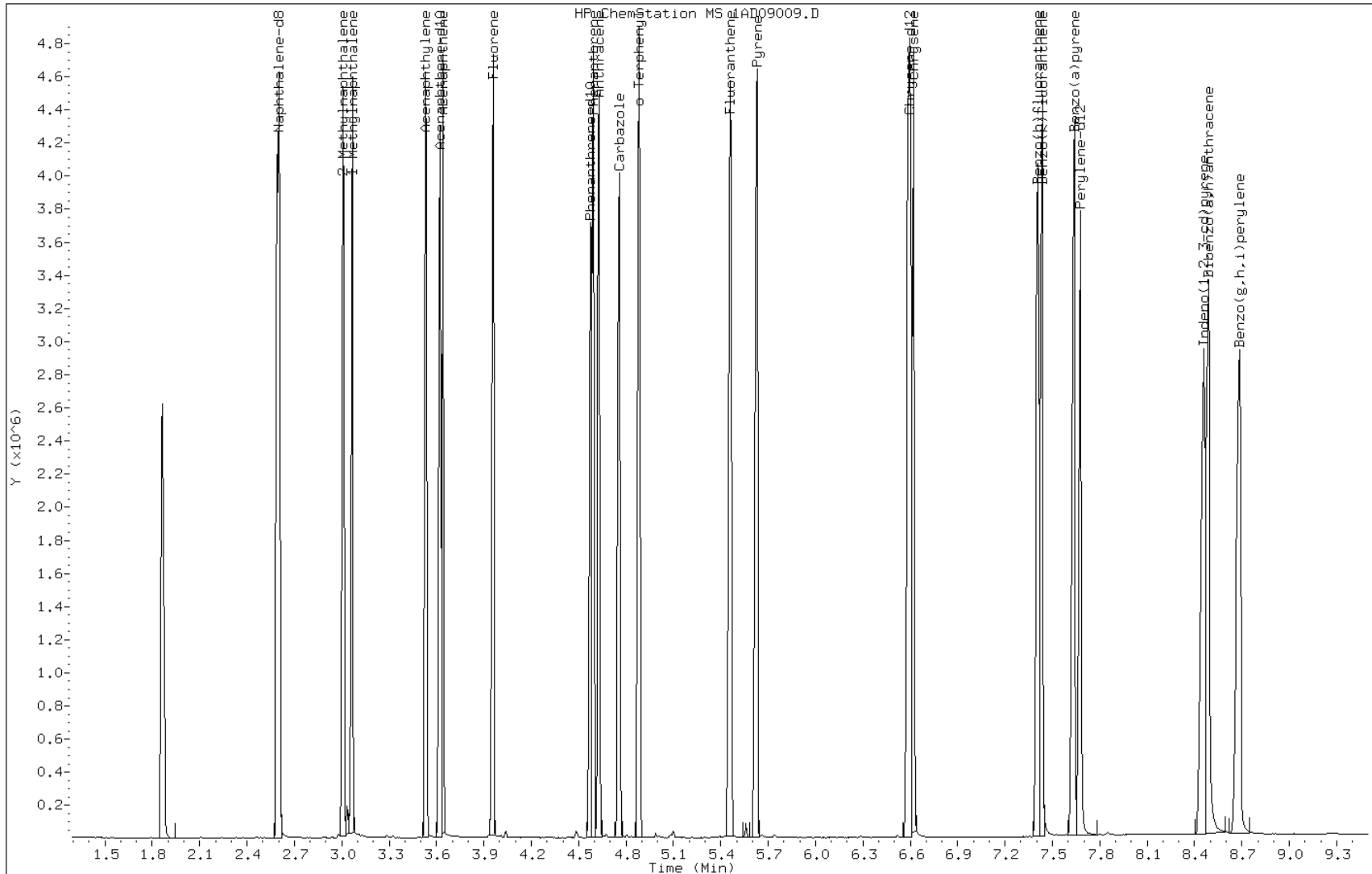
Date: 09-APR-2013 12:03

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC



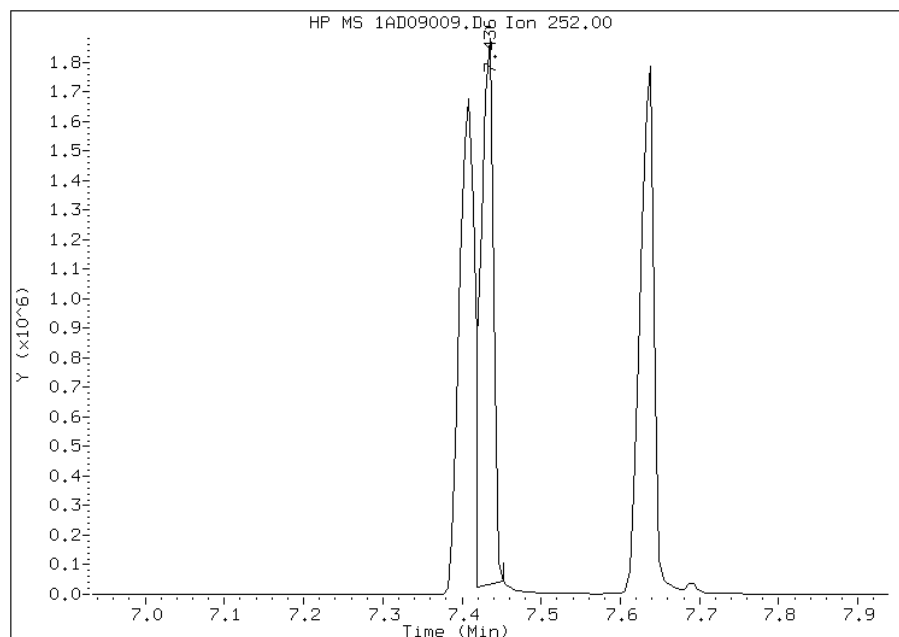


# Manual Integration Report

Data File: 1AD09009.D  
Inj. Date and Time: 09-APR-2013 12:03  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/09/2013

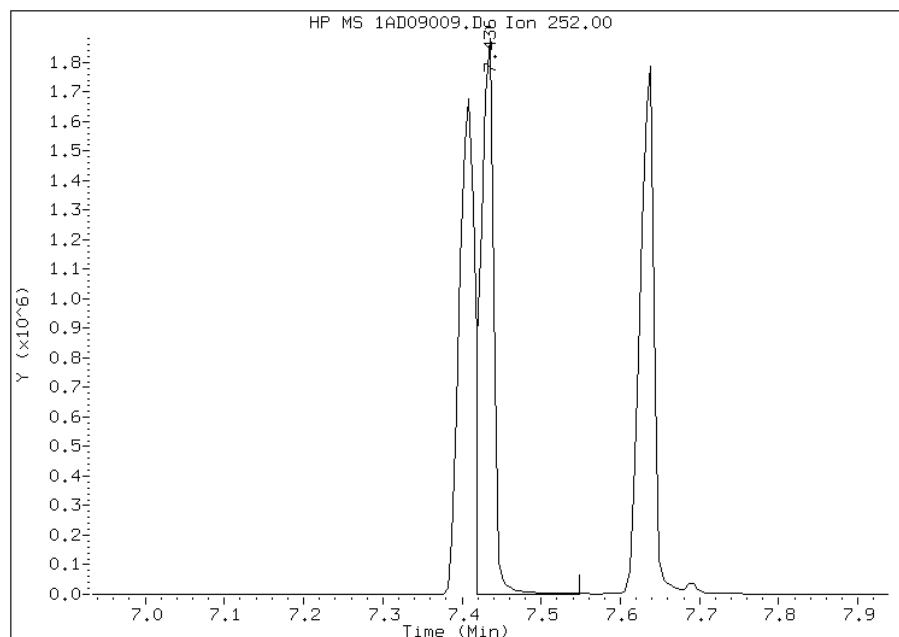
## Processing Integration Results

RT: 7.44  
Response: 2027064  
Amount: 38  
Conc: 38



## Manual Integration Results

RT: 7.44  
Response: 2141556  
Amount: 40  
Conc: 40



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 12:32  
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1 Analy Batch No.: 136048

SDG No.: 68088811-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7	15.0				
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1	15.0				
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6	15.0				
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8	15.0				
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000			0.9993		0.9900	
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6	15.0				
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9	15.0				
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9	15.0				
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1	15.0				
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4	15.0				
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8	15.0				
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000			0.9997		0.9900	
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8	15.0				
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-88811-1 Analy Batch No.: 136048  
 SDG No.: 68088811-1  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N  
 Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1	15.0				
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2	15.0				
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7	15.0				
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3	15.0				
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0	15.0				
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000			0.9966		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.: 680-88811-1

Analy Batch No.: 136048

SDG No.: 68088811-1

Instrument ID: BSMC5973

GC Column: DB-5MS

ID: 250 (um)

Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26

Calibration End Date: 04/02/2013 15:15

Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88811-1 Analy Batch No.: 136048

SDG No.: 68088811-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD  
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D  
 Lab Smp Id: IC1  
 Inj Date : 02-APR-2013 13:26  
 Operator : SCC  
 Smp Info : IC1  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 5 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188		5.757	5.757	(1.000)	611597	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264		8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128		3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142		4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142		4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152		4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154		4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166		5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178		5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178		5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167		5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202		6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202		6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228		7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252		8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252		8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252		8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276		10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278		10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276		10.415	10.415	(1.169)	4492	0.20000	0.2070(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: 1CD02005.D

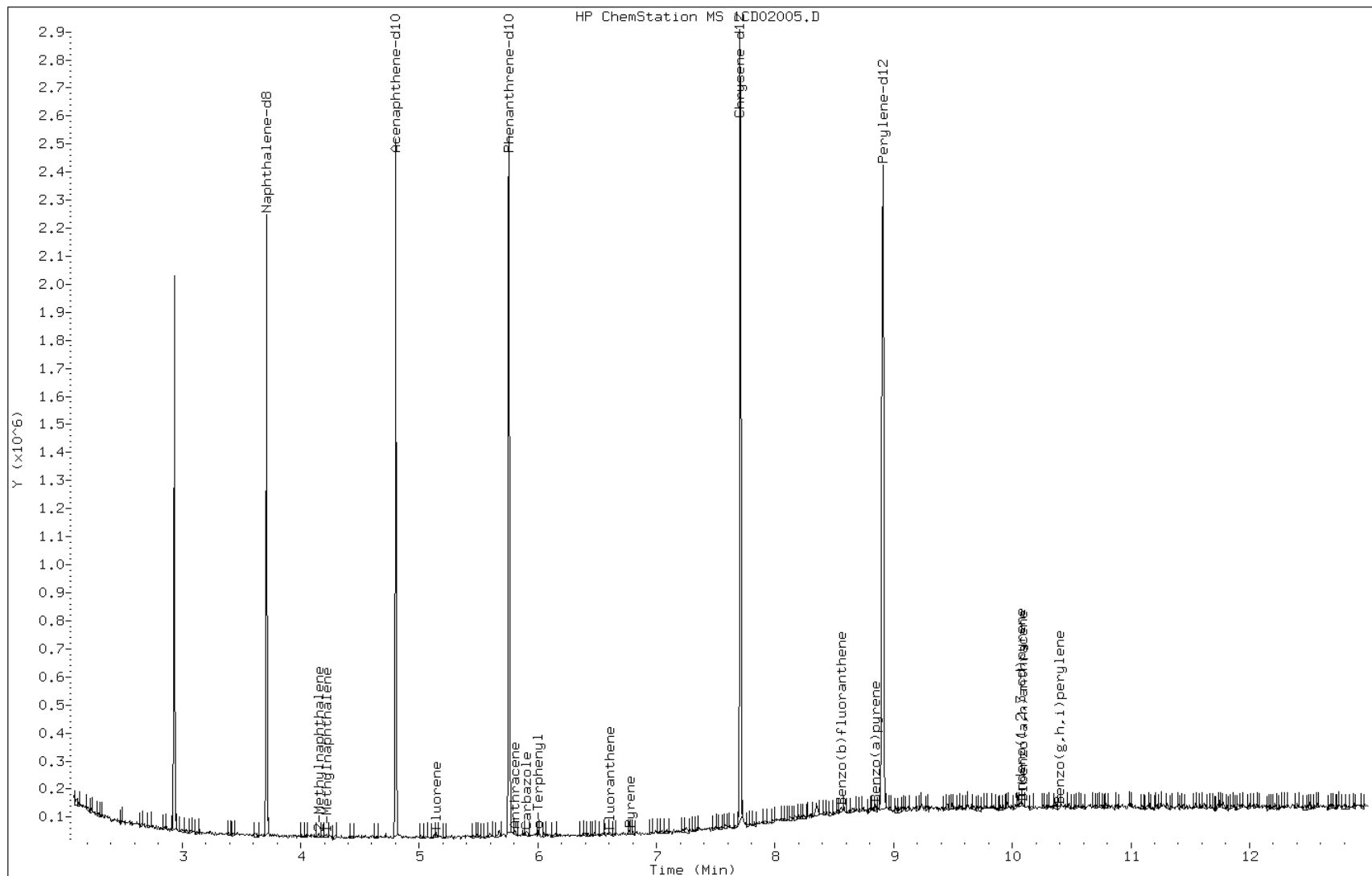
Date: 02-APR-2013 13:26

Client ID:

Instrument: BSMC5973.i

Sample Info: IC1

Operator: SCC

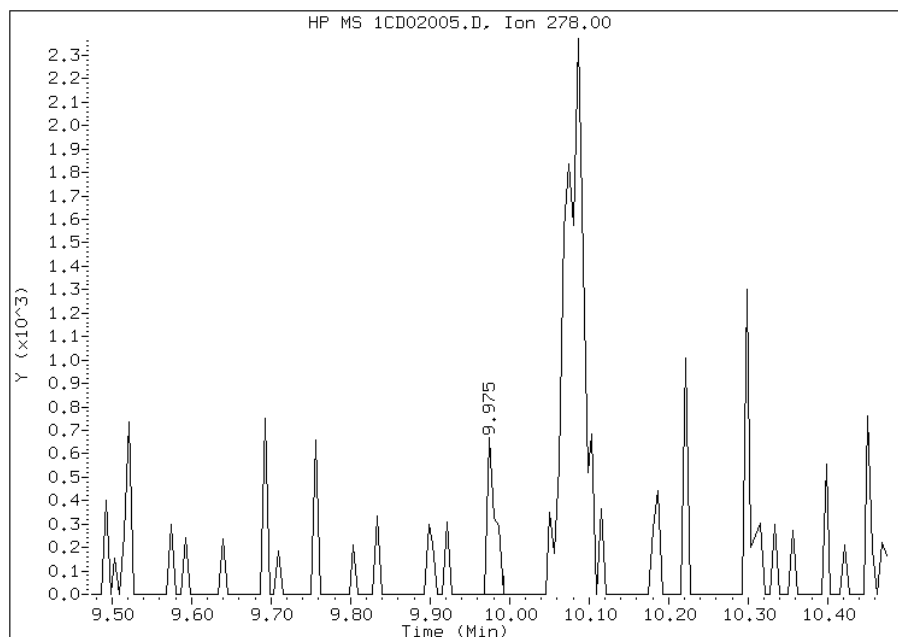


# Manual Integration Report

Data File: 1CD02005.D  
Inj. Date and Time: 02-APR-2013 13:26  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

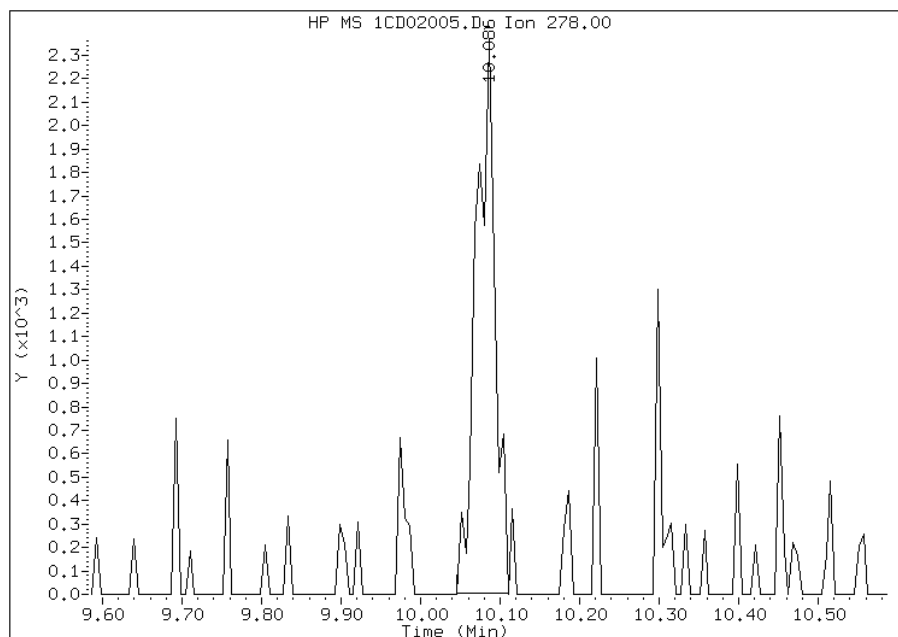
## Processing Integration Results

RT: 9.97  
Response: 454  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.09  
Response: 3872  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:44  
Manual Integration Reason: Baseline Event



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D  
 Lab Smp Id: IC2  
 Inj Date : 02-APR-2013 13:44  
 Operator : SCC  
 Smp Info : IC2  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D  
 Als bottle: 6 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.745	(1.000)	591987	40.0000	
\$ 14 o-Terphenyl	230		5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240		7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264		8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128		3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142		4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142		4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152		4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154		4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166		5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178		5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178		5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167		5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202		6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202		6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228		7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228		7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252		8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252		8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252		8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276		10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278		10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276		10.356	10.356	(1.169)	20561	1.00000	0.9390(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: 1CD02006.D

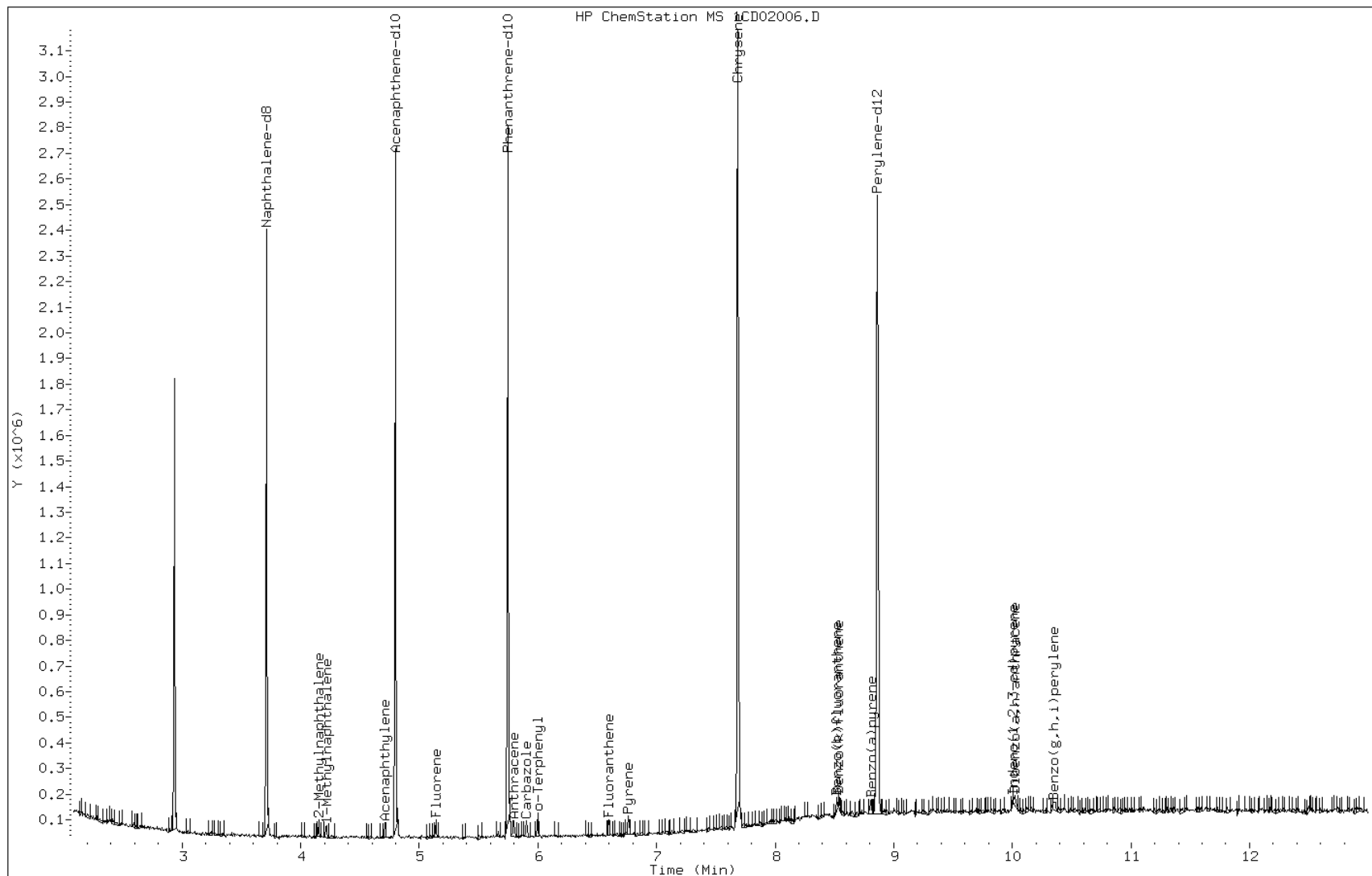
Date: 02-APR-2013 13:44

Client ID:

Instrument: BSMC5973.i

Sample Info: IC2

Operator: SCC

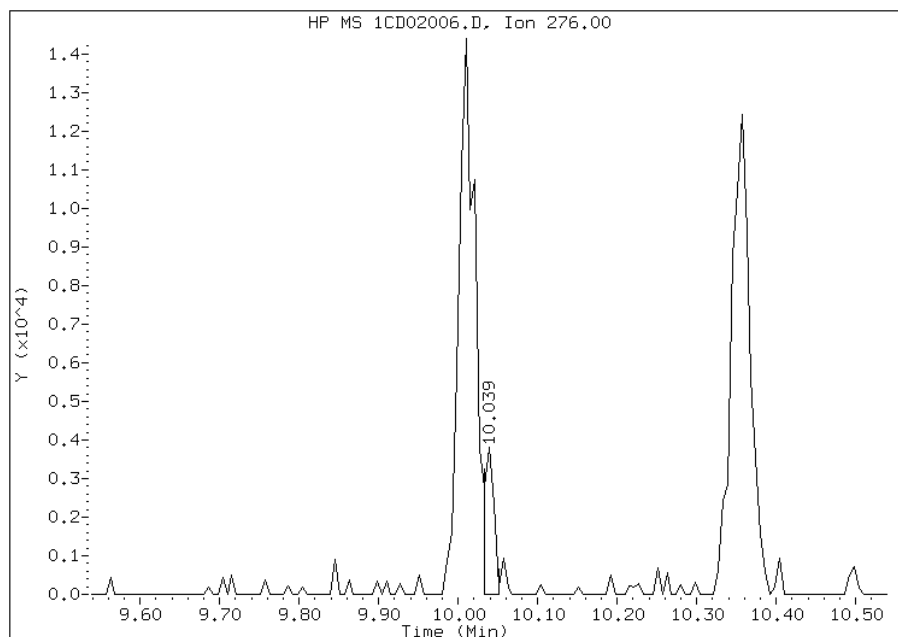


# Manual Integration Report

Data File: 1CD02006.D  
Inj. Date and Time: 02-APR-2013 13:44  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

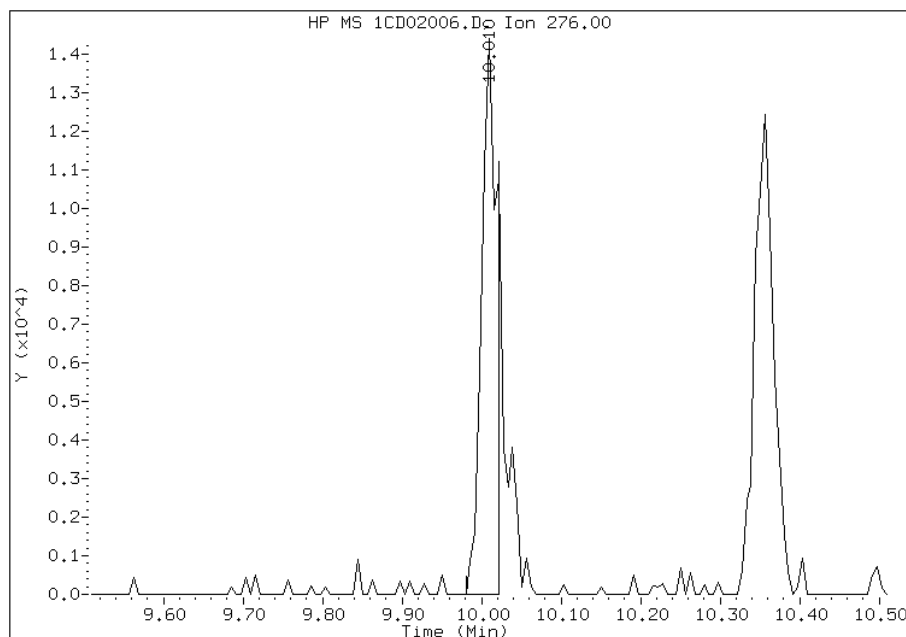
## Processing Integration Results

RT: 10.04  
Response: 3225  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.01  
Response: 19198  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:45  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D  
 Lab Smp Id: IC3  
 Inj Date : 02-APR-2013 14:02  
 Operator : SCC  
 Smp Info : IC3  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D  
 Als bottle: 7 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					
			CAL-AMT	ON-COL	MASS	RT	EXP RT	REL RT
* 1 Naphthalene-d8	136		40.0000		3.710	3.710	(1.000)	457408
* 6 Acenaphthene-d10	164		40.0000		4.798	4.798	(1.000)	331342
* 10 Phenanthrene-d10	188		40.0000		5.745	5.745	(1.000)	625535
\$ 14 o-Terphenyl	230		5.00000	4.6190	5.998	5.998	(1.044)	45027
* 18 Chrysene-d12	240		40.0000		7.686	7.686	(1.000)	787858
* 23 Perylene-d12	264		40.0000	(H)	8.856	8.856	(1.000)	882270
2 Naphthalene	128		5.00000	5.6020	3.727	3.727	(1.005)	65815
3 2-Methylnaphthalene	142		5.00000	4.9236	4.151	4.151	(1.119)	39376
4 1-Methylnaphthalene	142		5.00000	5.1494(Q)	4.216	4.216	(1.136)	37056
5 Acenaphthylene	152		5.00000	5.1389	4.710	4.710	(0.982)	70473
7 Acenaphthene	154		5.00000	4.6430	4.821	4.821	(1.005)	39421
9 Fluorene	166		5.00000	5.1486	5.139	5.139	(1.071)	58298
11 Phenanthrene	178		5.00000	4.8545	5.763	5.763	(1.003)	88442
12 Anthracene	178		5.00000	4.8741	5.792	5.792	(1.008)	90016
13 Carbazole	167		5.00000	5.2803	5.904	5.904	(1.028)	83549
15 Fluoranthene	202		5.00000	5.2570	6.598	6.598	(1.148)	105772
16 Pyrene	202		5.00000	5.0385	6.762	6.762	(0.880)	109963
17 Benzo(a)anthracene	228		5.00000	4.4014	7.674	7.674	(0.998)	110756
19 Chrysene	228		5.00000	5.2764(H)	7.704	7.704	(1.002)	118460
20 Benzo(b)fluoranthene	252		5.00000	5.1043	8.515	8.515	(0.961)	127315
21 Benzo(k)fluoranthene	252		5.00000	5.0554(H)	8.539	8.539	(0.964)	121957
22 Benzo(a)pyrene	252		5.00000	4.8027(H)	8.804	8.804	(0.994)	112782
24 Indeno(1,2,3-cd)pyrene	276		5.00000	5.1344(MH)	10.003	10.003	(1.129)	114519
25 Dibenzo(a,h)anthracene	278		5.00000	4.7277(H)	10.021	10.021	(1.131)	97409
26 Benzo(g,h,i)perylene	276		5.00000	5.1573(H)	10.345	10.345	(1.168)	117403

QC Flag Legend

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

Data File: 1CD02007.D

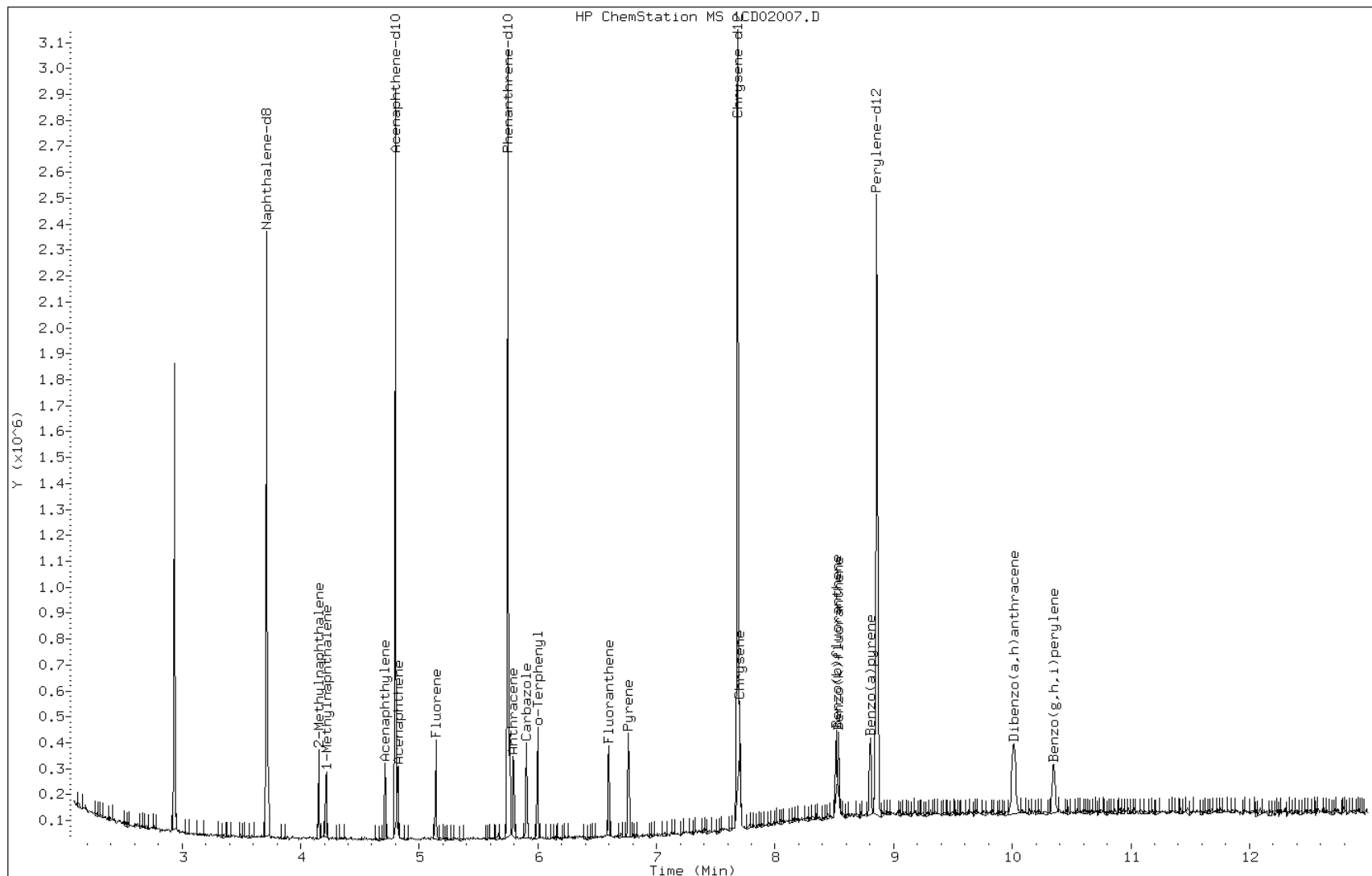
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC

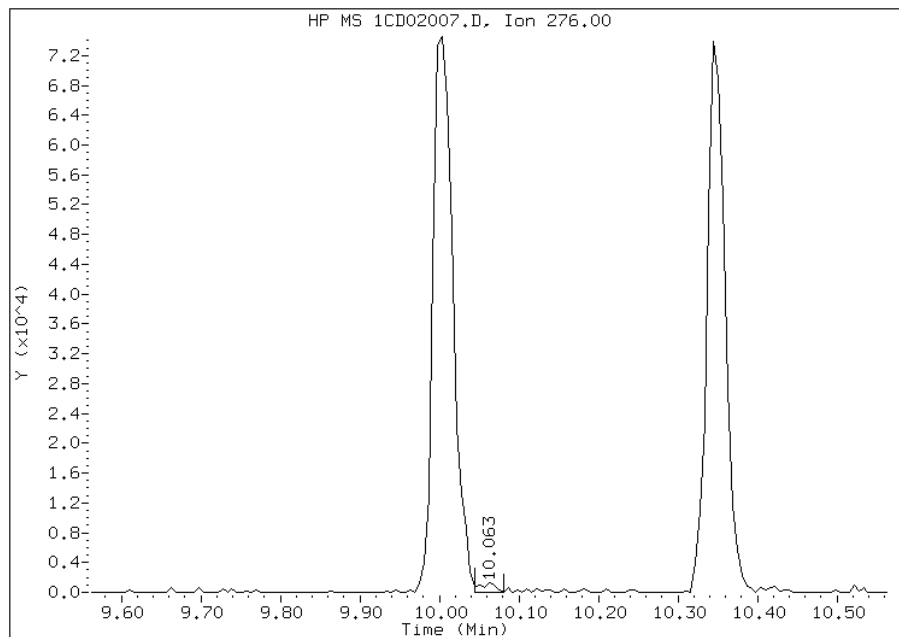


# Manual Integration Report

Data File: 1CD02007.D  
Inj. Date and Time: 02-APR-2013 14:02  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

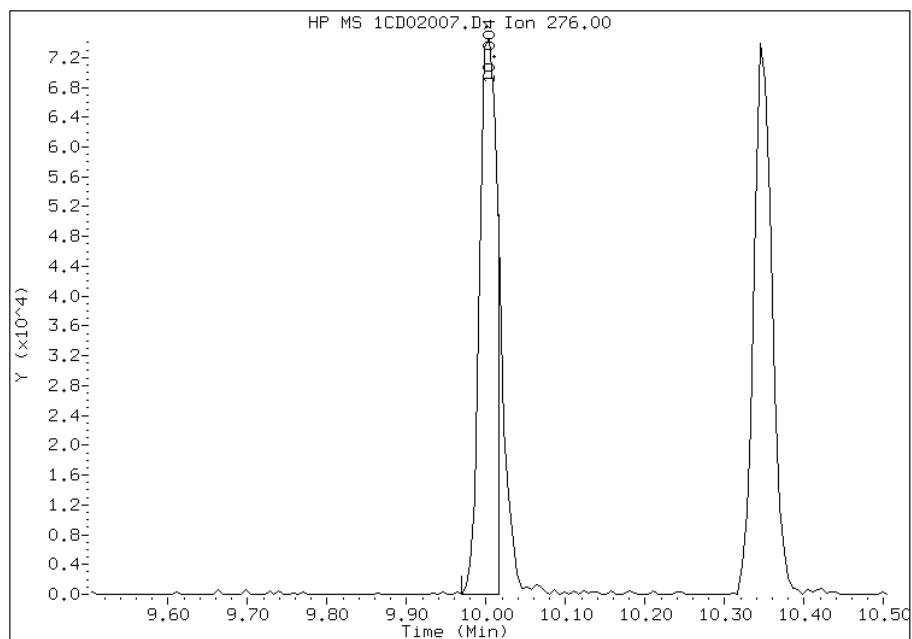
## Processing Integration Results

RT: 10.06  
Response: 1809  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.00  
Response: 114519  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:48  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D  
 Lab Smp Id: IC4  
 Inj Date : 02-APR-2013 14:20  
 Operator : SCC  
 Smp Info : IC4  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D  
 Als bottle: 8 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

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

Data File: 1CD02008.D

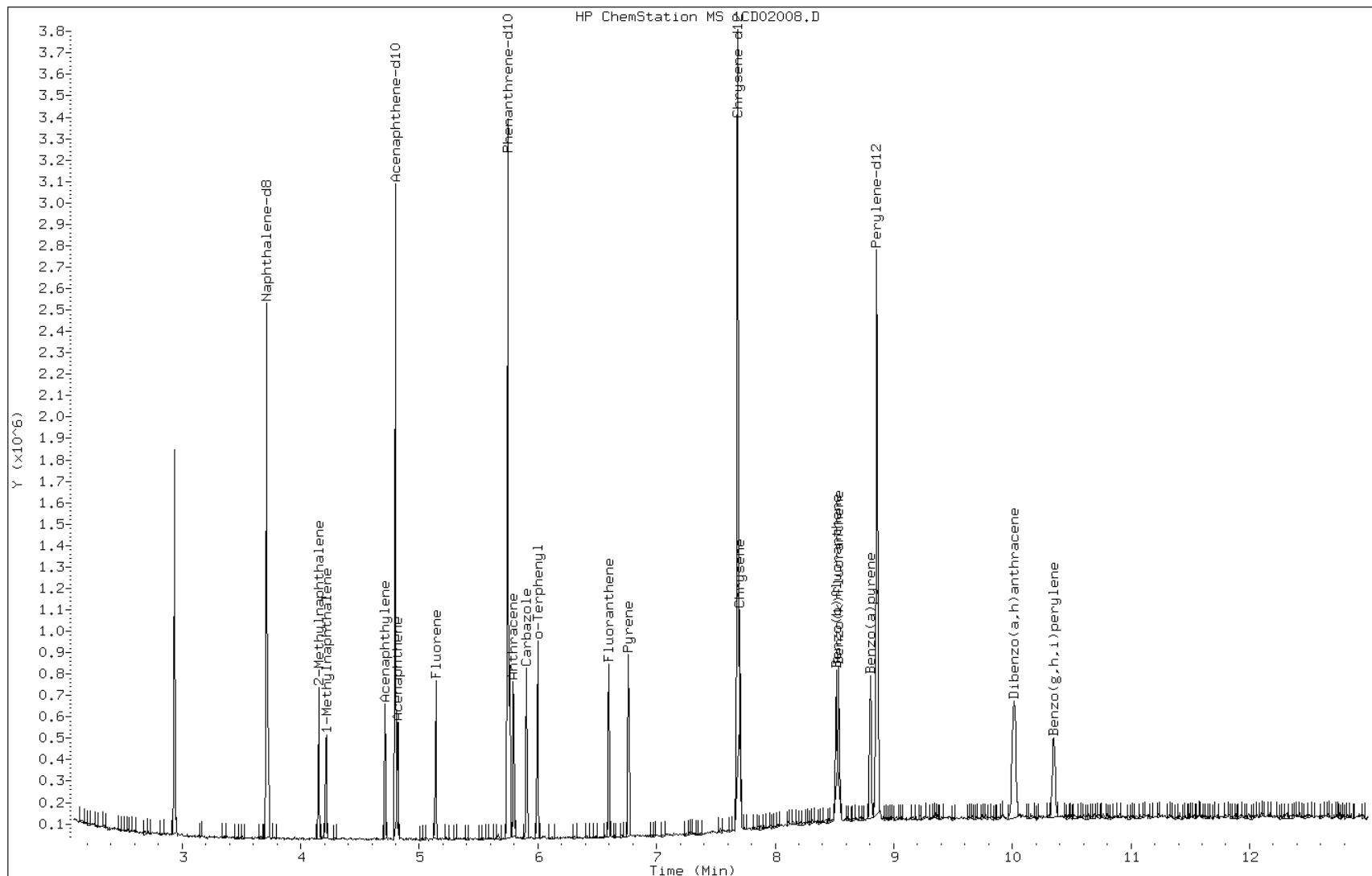
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC



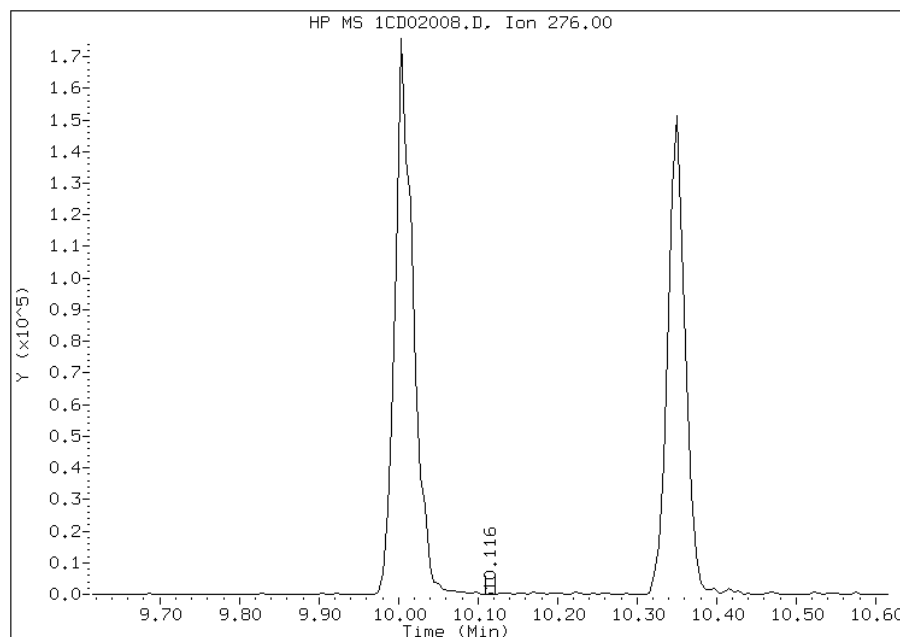


# Manual Integration Report

Data File: 1CD02008.D  
Inj. Date and Time: 02-APR-2013 14:20  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

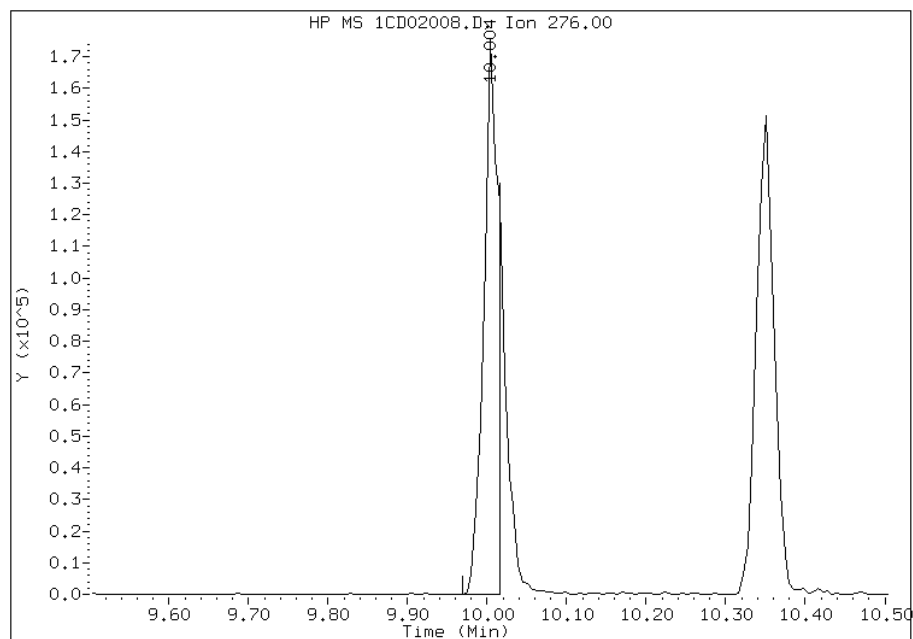
## Processing Integration Results

RT: 10.12  
Response: 142  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.00  
Response: 222795  
Amount: 9  
Conc: 9



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:49  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D  
 Lab Smp Id: IC5  
 Inj Date : 02-APR-2013 14:39  
 Operator : SCC  
 Smp Info : IC5  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D  
 Als bottle: 9 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02009.D

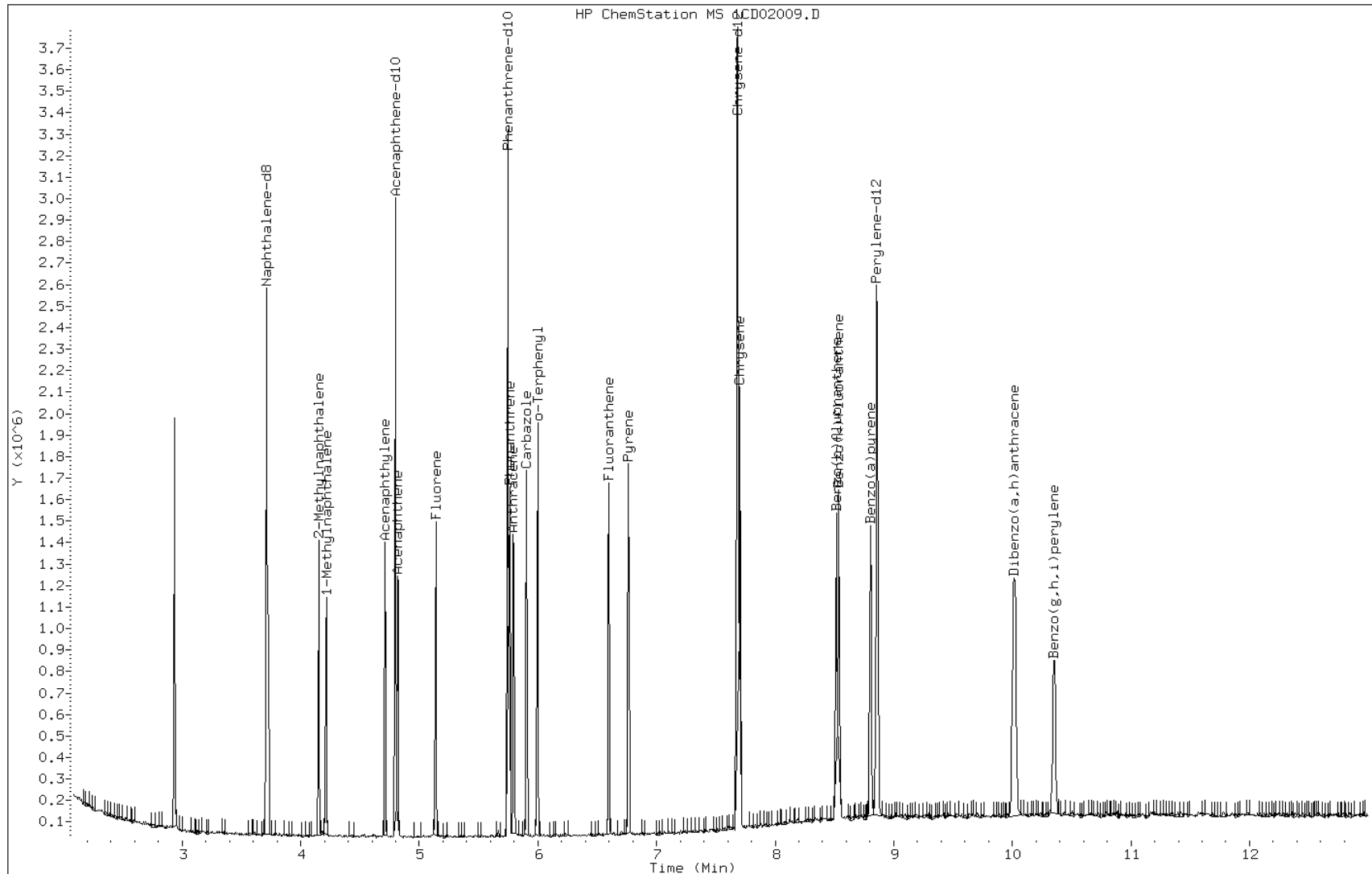
Date: 02-APR-2013 14:39

Client ID:

Instrument: BSMC5973.i

Sample Info: IC5

Operator: SCC

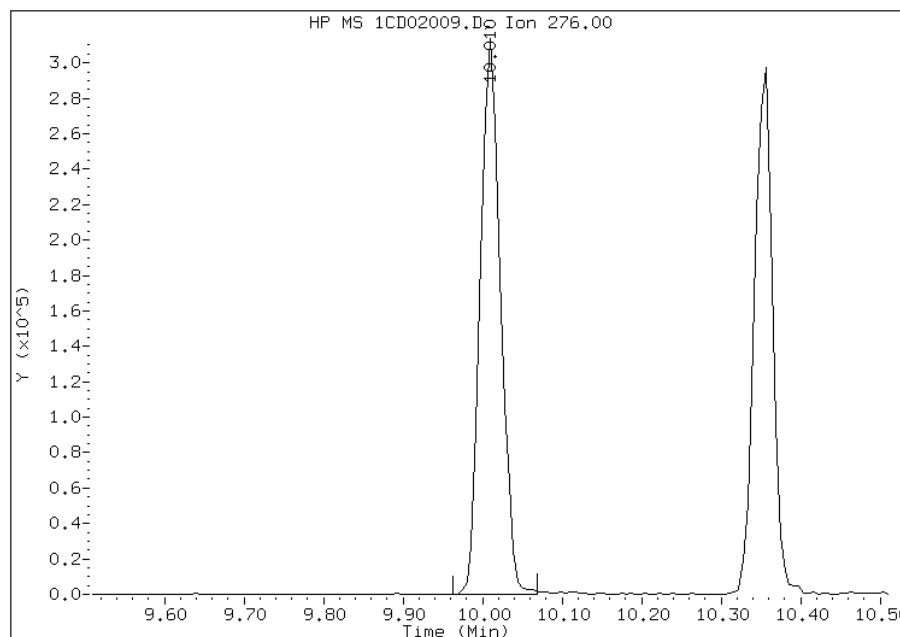


# Manual Integration Report

Data File: 1CD02009.D  
Inj. Date and Time: 02-APR-2013 14:39  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

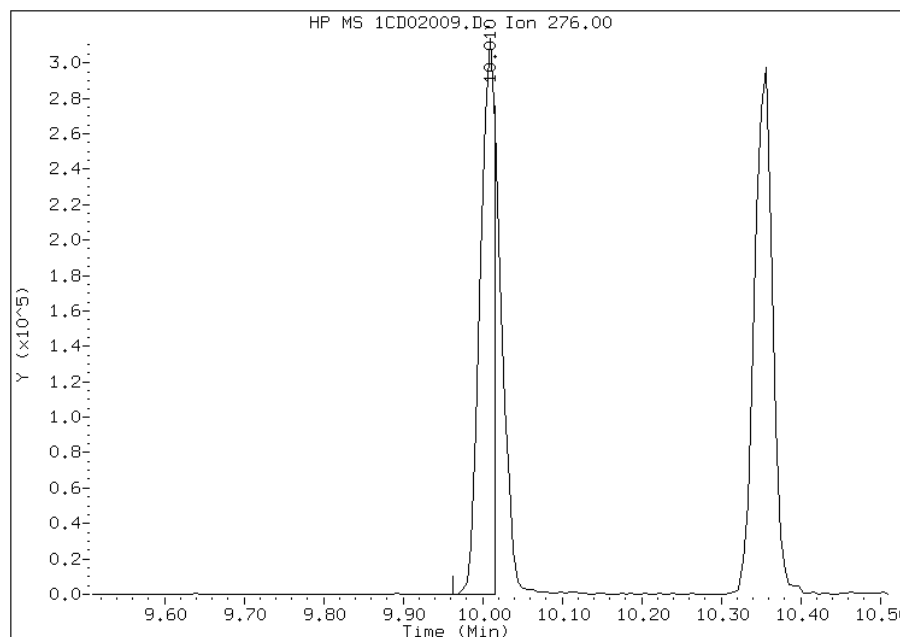
## Processing Integration Results

RT: 10.01  
Response: 550558  
Amount: 32  
Conc: 32



## Manual Integration Results

RT: 10.01  
Response: 412839  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:39  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D  
 Lab Smp Id: IC6  
 Inj Date : 02-APR-2013 14:57  
 Operator : SCC  
 Smp Info : IC6  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D  
 Als bottle: 10 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

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

Data File: 1CD02010.D

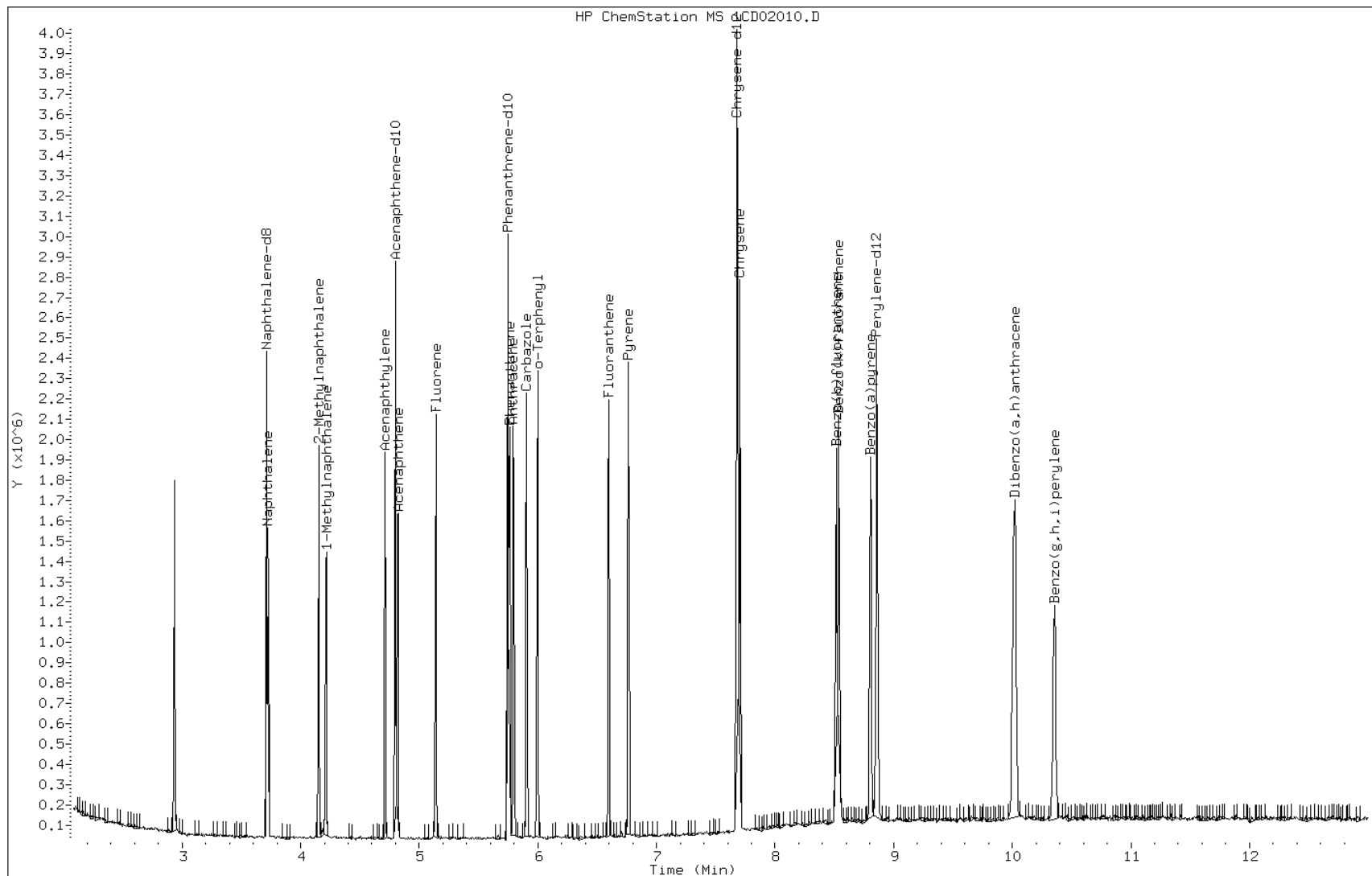
Date: 02-APR-2013 14:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC6

Operator: SCC

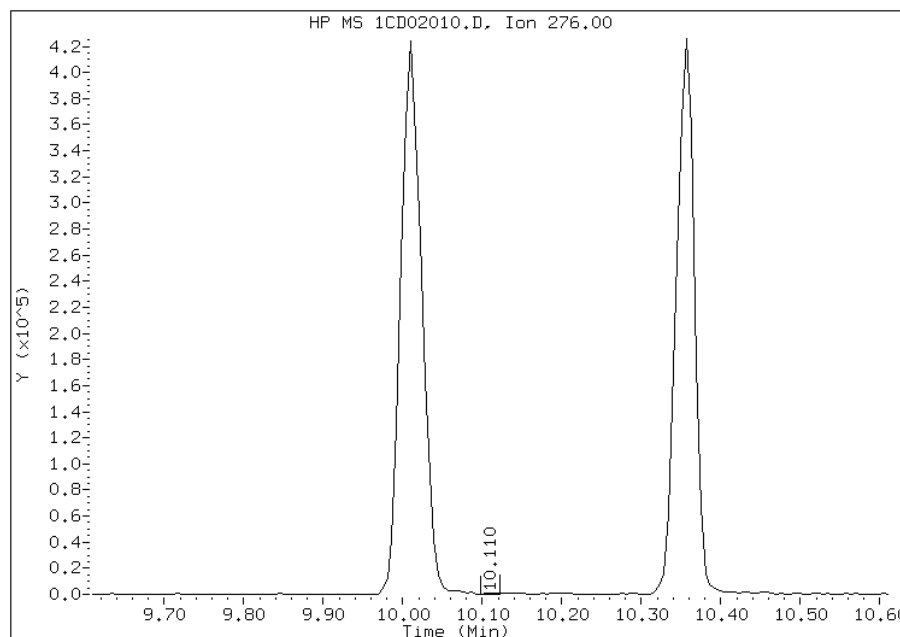


# Manual Integration Report

Data File: 1CD02010.D  
Inj. Date and Time: 02-APR-2013 14:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

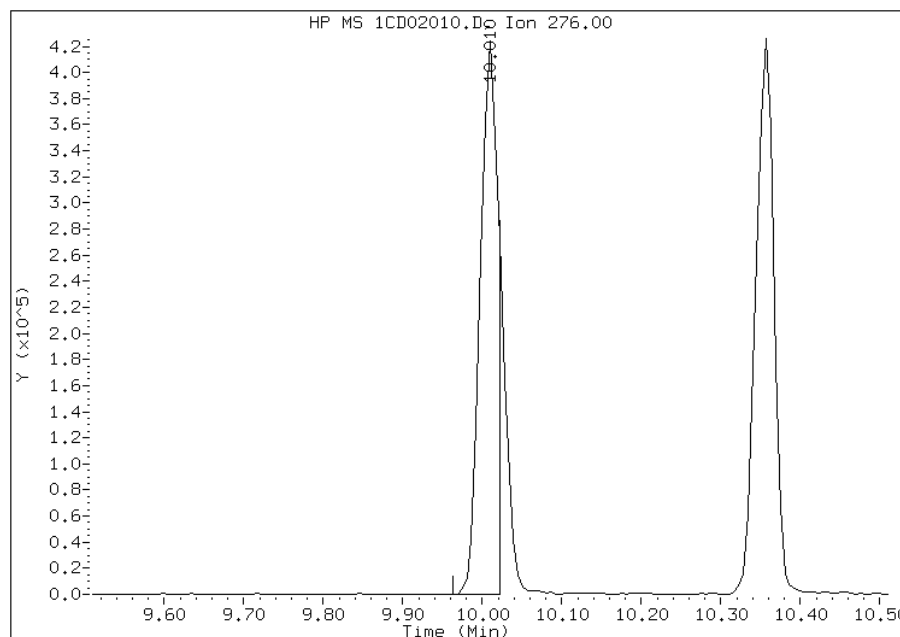
## Processing Integration Results

RT: 10.11  
Response: 1008  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.01  
Response: 655344  
Amount: 31  
Conc: 31



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:50  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D  
 Lab Smp Id: IC7  
 Inj Date : 02-APR-2013 15:15  
 Operator : SCC  
 Smp Info : IC7  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD  
 Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D  
 Als bottle: 11 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					ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	ON-COL	
====	====	====	====	====	====	====	====	
* 1 Naphthalene-d8	136		3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.745	(1.000)	712035	40.0000	
\$ 14 o-Terphenyl	230		5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240		7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264		8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128		3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142		4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142		4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152		4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154		4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166		5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178		5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178		5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167		5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202		6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202		6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228		7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228		7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252		8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252		8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252		8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276		10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278		10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276		10.362	10.362	(1.169)	1270187	50.0000	50.6515(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: 1CD02011.D

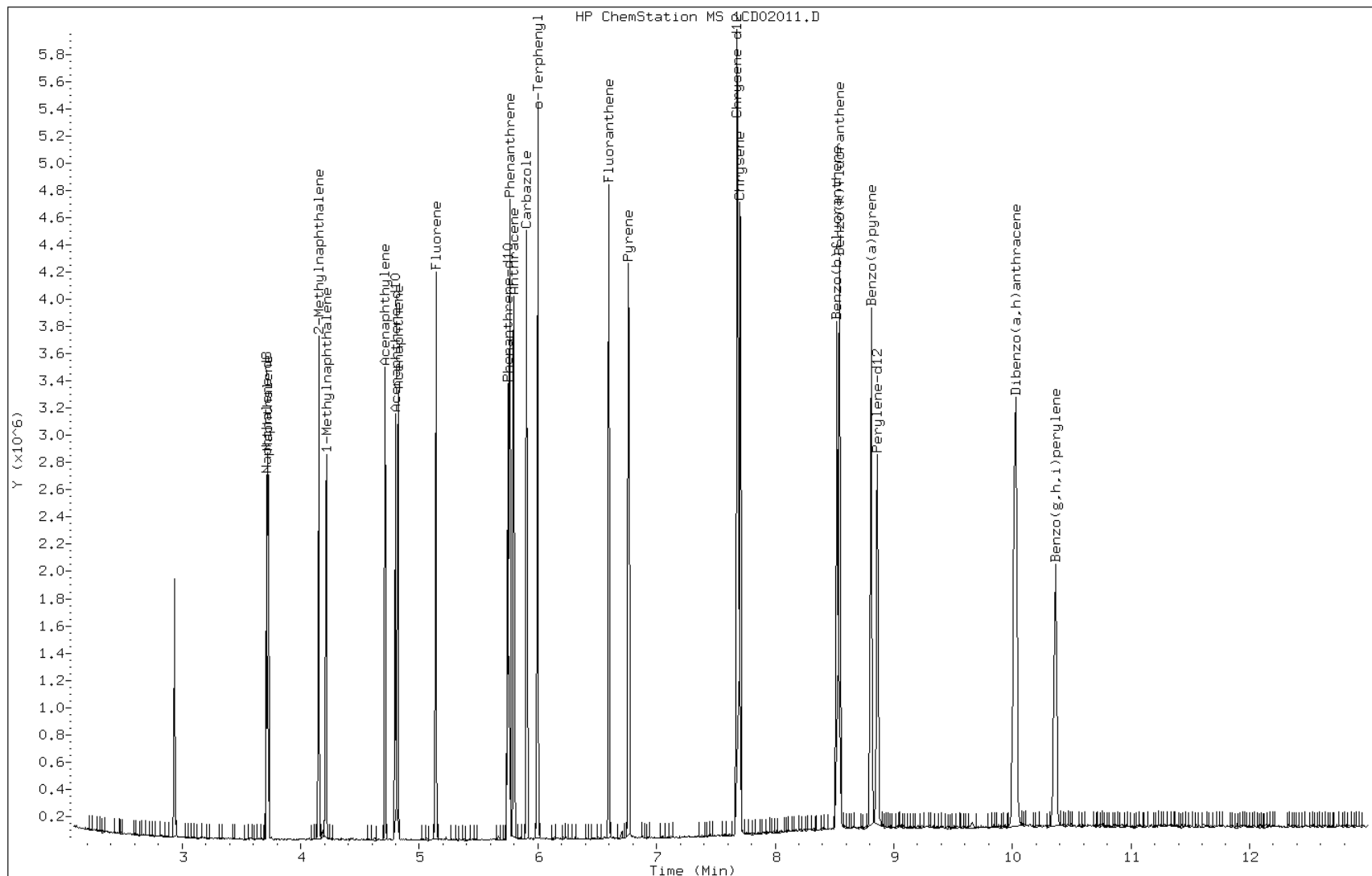
Date: 02-APR-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: IC7

Operator: SCC

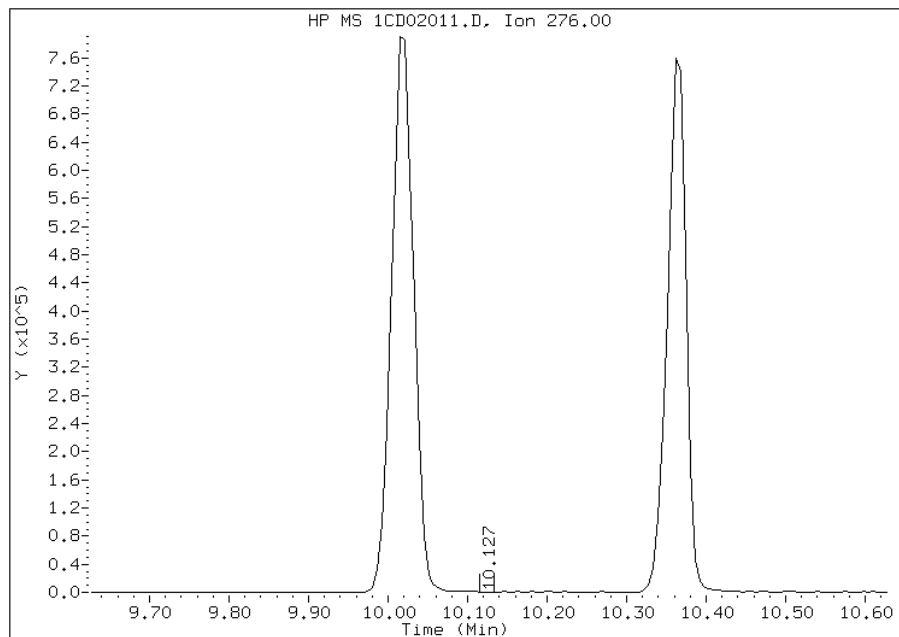


Manual Integration Report

Data File: 1CD02011.D  
Inj. Date and Time: 02-APR-2013 15:15  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

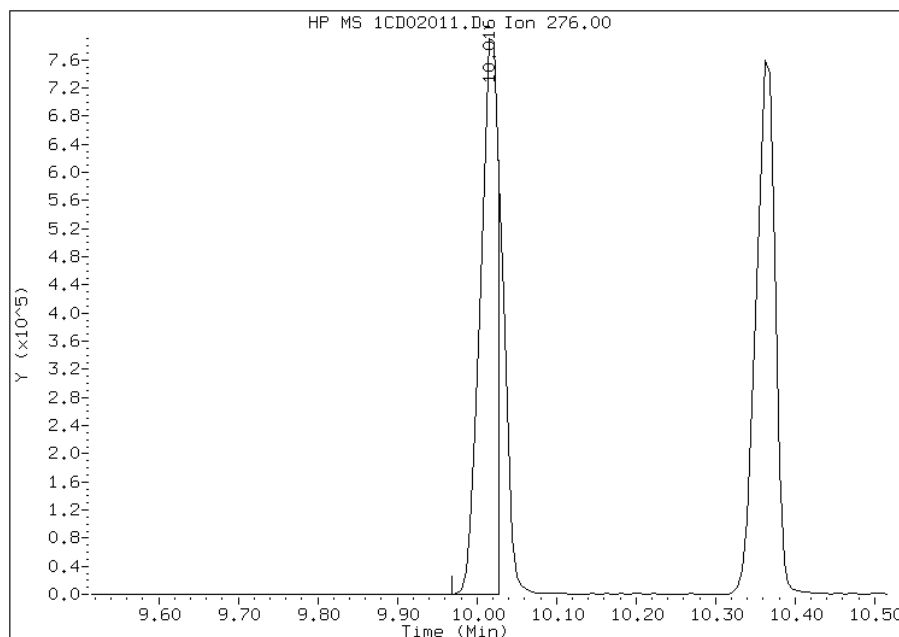
Processing Integration Results

RT: 10.13  
Response: 653  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 10.02  
Response: 1242391  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:51  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab Sample ID: ICV 660-136269/12 Calibration Date: 04/09/2013 13:51  
 Instrument ID: BSMA5973 Calib Start Date: 04/09/2013 10:31  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/09/2013 12:03  
 Lab File ID: 1AD09012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.164	1.049	0.0000	19200	20000	-3.8	35.0
2-Methylnaphthalene	Qua	0.6769	0.6602	0.0000	21200	20000	6.1	35.0
1-Methylnaphthalene	Qua	0.7577	0.7532	0.0000	22400	20000	12.1	35.0
Acenaphthylene	Qua	2.305	2.059	0.0000	17600	20000	-12.1	35.0
Acenaphthene	Qua	1.341	1.135	0.0000	18000	20000	-10.2	35.0
Fluorene	Qua	1.676	1.477	0.0000	18300	20000	-8.3	35.0
Phenanthrene	Qua	1.294	1.095	0.0000	18000	20000	-10.1	35.0
Anthracene	Qua	1.308	1.177	0.0000	18600	20000	-6.8	35.0
Carbazole	Qua	1.209	0.9261	0.0000	15300	20000	-23.5	35.0
Fluoranthene	Qua	1.464	1.396	0.0000	19600	20000	-1.8	35.0
Pyrene	Ave	1.541	1.486	0.0000	19300	20000	-3.6	35.0
Benzo[a]anthracene	Ave	1.334	1.292	0.0000	19400	20000	-3.1	35.0
Chrysene	Ave	1.361	1.219	0.0000	17900	20000	-10.4	35.0
Benzo[b]fluoranthene	Ave	1.213	1.207	0.0000	19900	20000	-0.4	35.0
Benzo[k]fluoranthene	Ave	1.347	1.267	0.0000	18800	20000	-5.9	35.0
Benzo[a]pyrene	Lin	1.157	1.092	0.0000	18500	20000	-7.3	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.023	0.9921	0.0000	17600	20000	-12.1	35.0
Dibenz(a,h)anthracene	Ave	1.011	1.127	0.0000	22300	20000	11.4	35.0
Benzo[g,h,i]perylene	Ave	1.089	1.068	0.0000	19600	20000	-1.9	35.0
o-Terphenyl	Qua	0.7281	0.6328	0.0000	18100	20000	-9.4	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09012.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 09-APR-2013 13:51  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info : RE-RUN  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD  
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D  
 Als bottle: 12 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		2.592	2.591	(1.000)	1542771	40.0000		
* 6 Acenaphthene-d10	164		3.628	3.622	(1.000)	886874	40.0000		
* 10 Phenanthrene-d10	188		4.579	4.573	(1.000)	1631736	40.0000		
\$ 14 o-Terphenyl	230		4.883	4.877	(1.066)	516312	18.1166	18.1166	
* 18 Chrysene-d12	240		6.603	6.597	(1.000)	1541115	40.0000		
* 23 Perylene-d12	264		7.692	7.676	(1.000)	1781032	40.0000		
2 Naphthalene	128		2.602	2.602	(1.004)	808850	19.2380	19.2380	
3 2-Methylnaphthalene	141		3.008	3.008	(1.161)	509252	21.2238	21.2238	
4 1-Methylnaphthalene	142		3.062	3.062	(1.181)	580975	22.4261	22.4260	
5 Acenaphthylene	152		3.537	3.532	(0.975)	913033	17.5706	17.5705	
7 Acenaphthene	154		3.644	3.638	(1.004)	503207	17.9564	17.9564	
9 Fluorene	166		3.959	3.953	(1.091)	655022	18.3313	18.3312	
11 Phenanthrene	178		4.595	4.589	(1.003)	893498	17.9753	17.9753	
12 Anthracene	178		4.627	4.626	(1.010)	960125	18.6315	18.6314	
13 Carbazole	167		4.755	4.755	(1.038)	755565	15.2994	15.2993	
15 Fluoranthene	202		5.460	5.454	(1.192)	1138837	19.6352	19.6352	
16 Pyrene	202		5.625	5.620	(0.852)	1145036	19.2813	19.2813	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
-----	----		----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		6.587	6.581	(0.998)	995754	19.3701	19.3700
19 Chrysene	228		6.619	6.613	(1.002)	939490	17.9191	17.9191
20 Benzo(b)fluoranthene	252		7.409	7.404	(0.963)	1075235	19.9103	19.9102
21 Benzo(k)fluoranthene	252		7.431	7.425	(0.966)	1128299	18.8114	18.8113
22 Benzo(a)pyrene	252		7.639	7.628	(0.993)	972005	18.5371	18.5371
24 Indeno(1,2,3-cd)pyrene	276		8.467	8.451	(1.101)	883515	17.5805	17.5804
25 Dibenzo(a,h)anthracene	278		8.499	8.477	(1.105)	1003330	22.2828	22.2828
26 Benzo(g,h,i)perylene	276		8.691	8.670	(1.130)	951427	19.6134	19.6134

Data File: 1AD09012.D

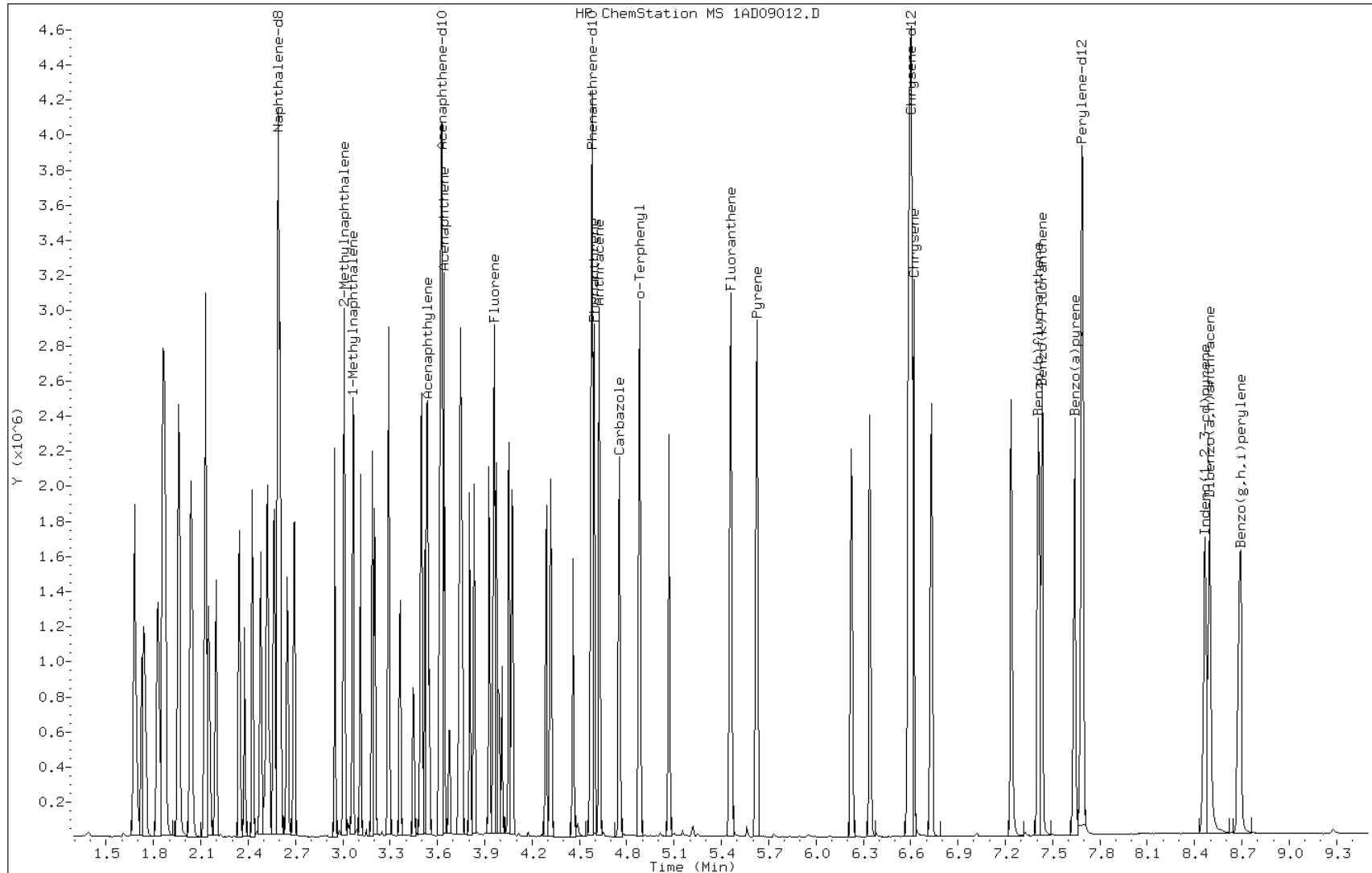
Date: 09-APR-2013 13:51

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34  
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15  
 Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 02-APR-2013 15:34  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m  
 Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 12 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Inst ID: BSMC5973.i  
 Compound Sublist: pah.sub

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL ( ug/l)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000		
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000		
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000		
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906	
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000		
* 23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000		
2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885	
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266	
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620	
5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363	
7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943	
9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929	
11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181	
12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609	
13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460	
15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021	
16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178	
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016	



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.704	7.710	(1.002)	544600	15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649	15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474	16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495	15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166	17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427	18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199	16.6490	16.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02012.D

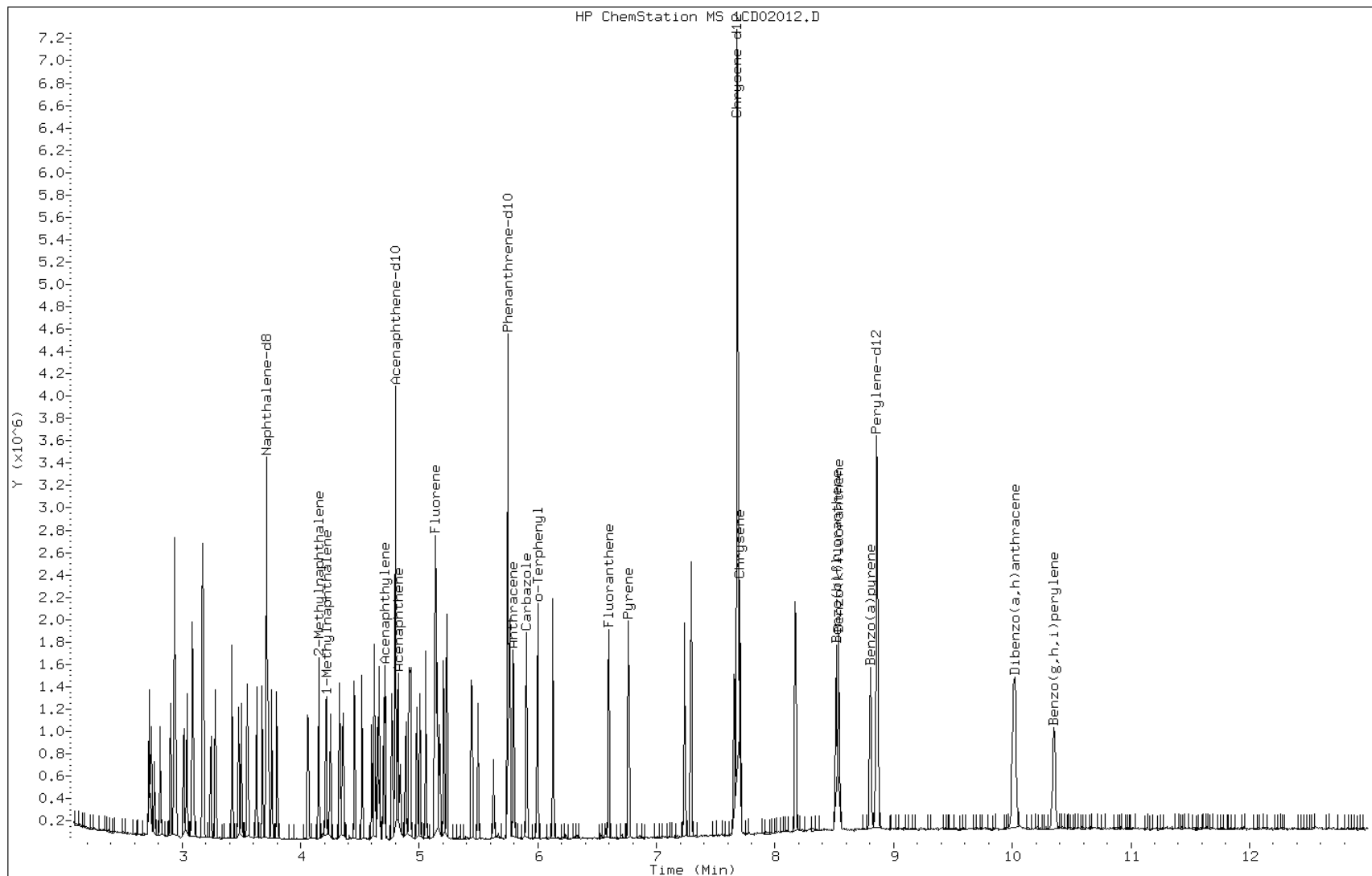
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

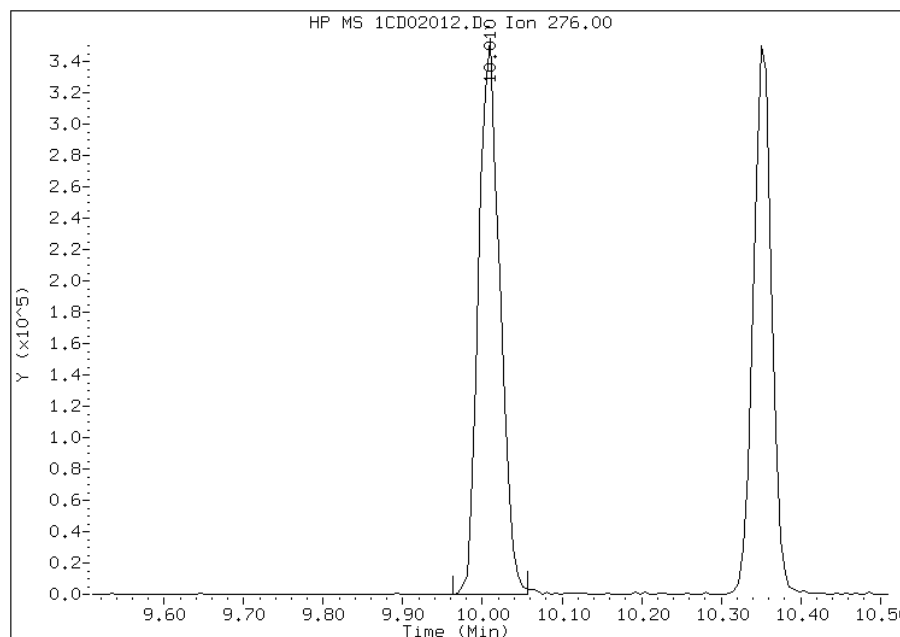


# Manual Integration Report

Data File: 1CD02012.D  
Inj. Date and Time: 02-APR-2013 15:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

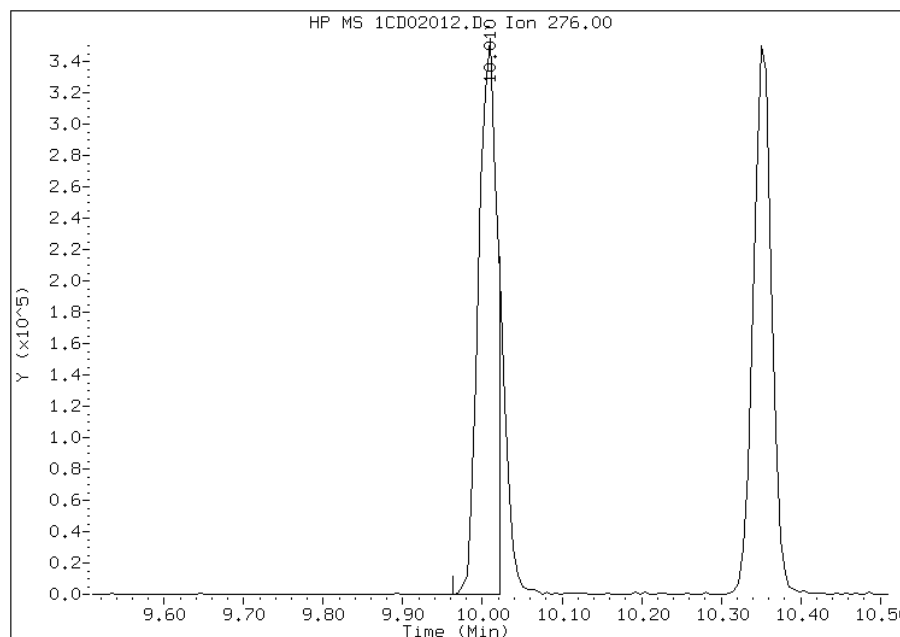
## Processing Integration Results

RT: 10.01  
Response: 653584  
Amount: 20  
Conc: 20



## Manual Integration Results

RT: 10.01  
Response: 571166  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 15:57  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab Sample ID: CCVIS 660-136171/4 Calibration Date: 04/05/2013 12:15  
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15  
 Lab File ID: 1CD05004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.032	0.0000	20100	20000	0.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.7098	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6293	0.6324	0.0000	20100	20000	0.5	20.0
Acenaphthylene	Ave	1.656	1.686	0.0000	20400	20000	1.8	20.0
Acenaphthene	Lin	1.025	0.9558	0.0000	18600	20000	-6.8	20.0
Fluorene	Ave	1.367	1.254	0.0000	18400	20000	-8.2	20.0
Phenanthrene	Ave	1.165	1.127	0.0000	19400	20000	-3.2	20.0
Anthracene	Ave	1.181	1.206	0.0000	20400	20000	2.1	20.0
Carbazole	Ave	1.012	1.040	0.0000	20600	20000	2.8	20.0
Fluoranthene	Ave	1.287	1.346	0.0000	20900	20000	4.6	20.0
Pyrene	Ave	1.108	1.077	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Lin	1.278	1.101	0.0000	19100	20000	-4.3	20.0
Chrysene	Ave	1.140	1.074	0.0000	18800	20000	-5.8	20.0
Benzo[b]fluoranthene	Ave	1.131	1.071	0.0000	18900	20000	-5.3	20.0
Benzo[k]fluoranthene	Ave	1.094	1.162	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Ave	1.065	1.057	0.0000	19900	20000	-0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9896	0.0000	19600	20000	-2.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9614	0.0000	20600	20000	2.9	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9820	0.0000	19000	20000	-4.9	20.0
o-Terphenyl	Lin	0.6233	0.6473	0.0000	20600	20000	2.8	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05004.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 05-APR-2013 12:15  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	3.692	3.692	(1.000)	392528	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	289150	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	539578	40.0000	(H)
\$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	174628	20.0000	20.5532
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	739705	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	746693	40.0000	(H)
2 Naphthalene	128	3.704	3.704	(1.003)	202593	20.0000	20.0945
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	139304	20.0000	20.2978
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	124123	20.0000	20.0997
5 Acenaphthylene	152	4.692	4.692	(0.982)	243681	20.0000	20.3623
7 Acenaphthene	154	4.798	4.798	(1.004)	138184	20.0000	18.6430
9 Fluorene	166	5.116	5.116	(1.070)	181351	20.0000	18.3533
11 Phenanthrene	178	5.739	5.739	(1.003)	304115	20.0000	19.3518(H)
12 Anthracene	178	5.774	5.774	(1.009)	325239	20.0000	20.4162(H)
13 Carbazole	167	5.880	5.880	(1.028)	280645	20.0000	20.5626(H)
15 Fluoranthene	202	6.574	6.574	(1.149)	363056	20.0000	20.9190(H)
16 Pyrene	202	6.739	6.739	(0.879)	398242	20.0000	19.4355
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	407283	20.0000	19.1383
19 Chrysene	228	7.680	7.680	(1.002)	397270	20.0000	18.8472
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	399687	20.0000	18.9338(H)
21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	433951	20.0000	21.2545(H)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	394530	20.0000	19.8513(H)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.962	(1.129)	369463	20.0000	19.5723(MH)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	358939	20.0000	20.5841(H)
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	366622	20.0000	19.0294(H)

QC Flag Legend

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

Data File: 1CD05004.D

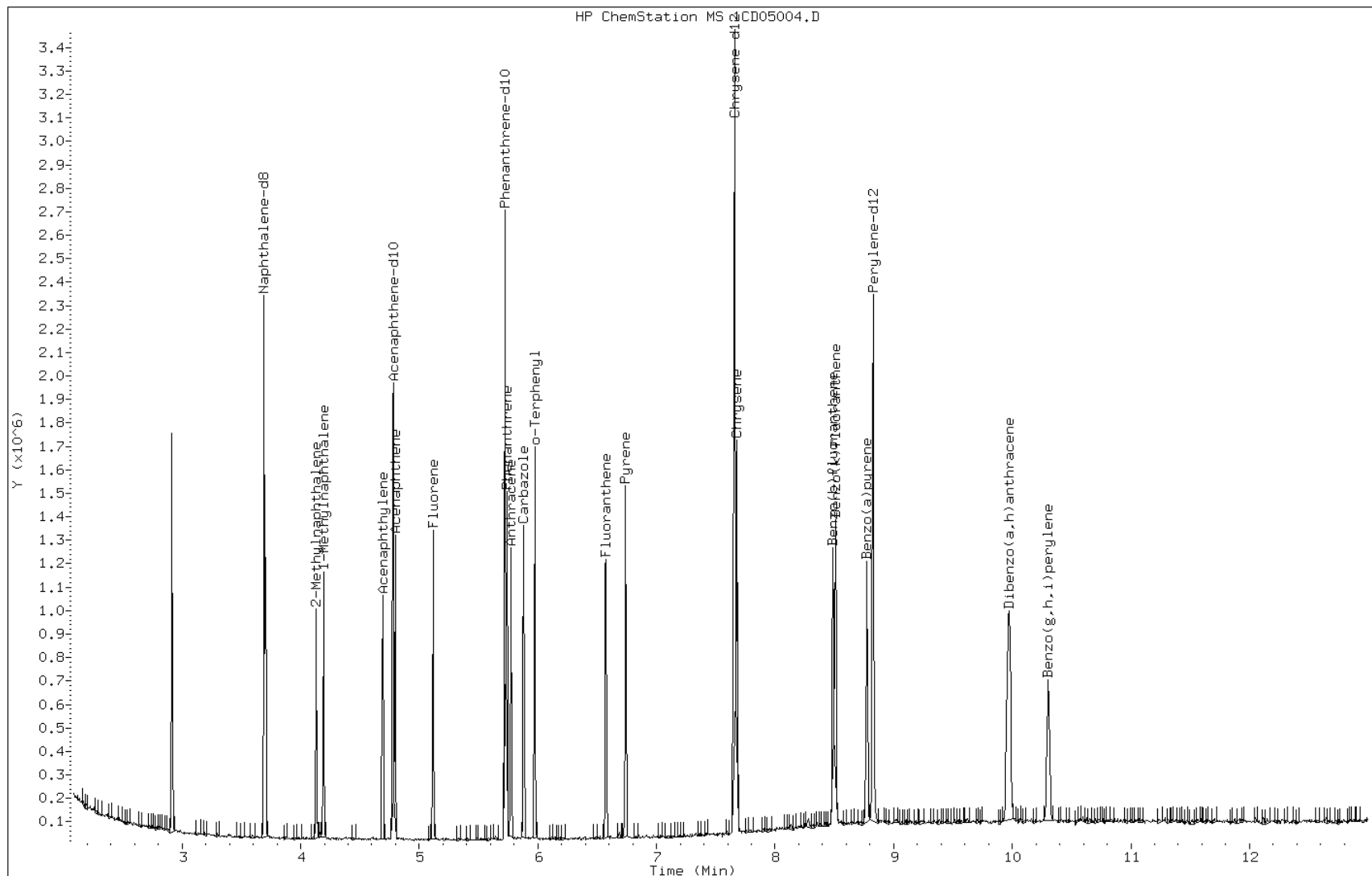
Date: 05-APR-2013 12:15

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

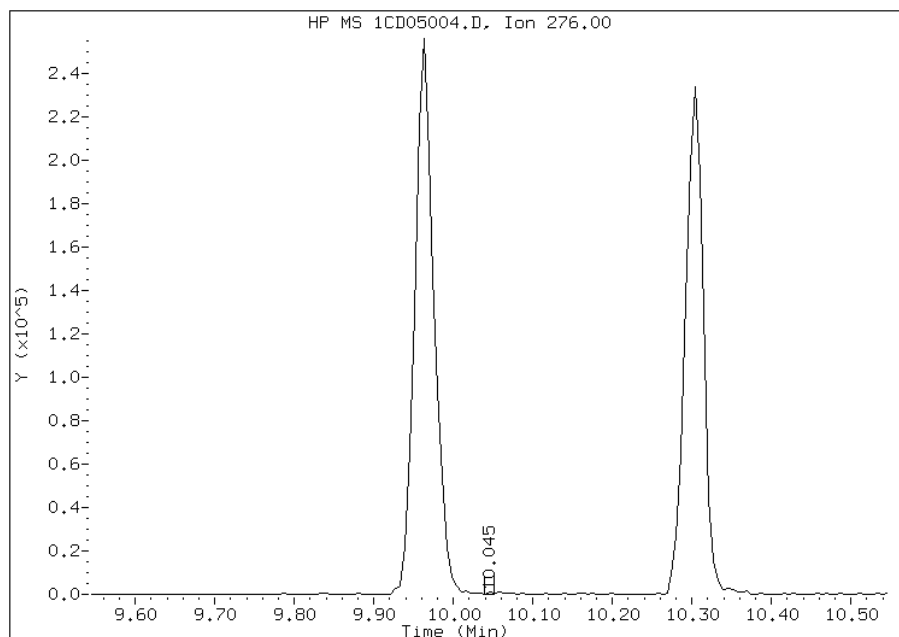


Manual Integration Report

Data File: 1CD05004.D  
Inj. Date and Time: 05-APR-2013 12:15  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

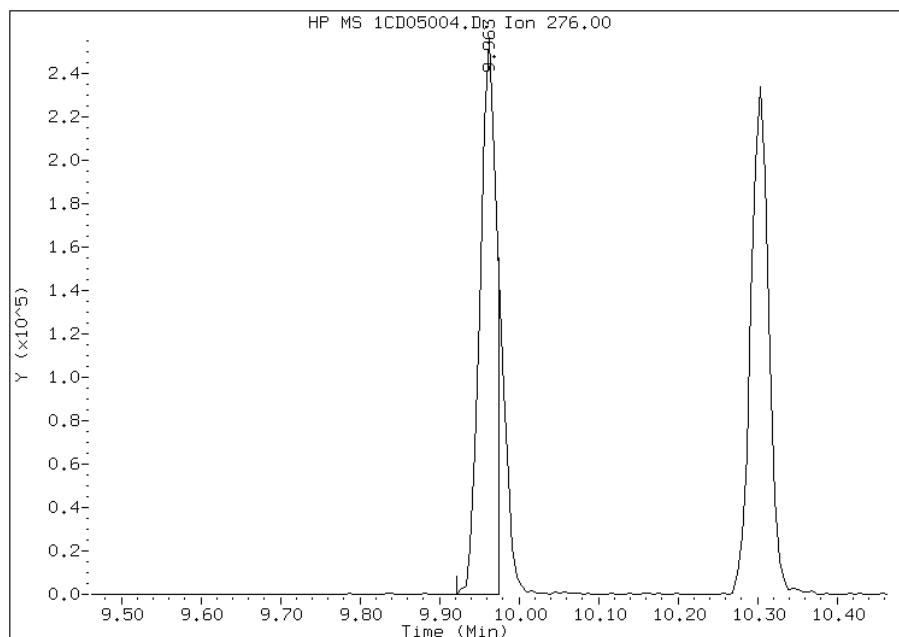
Processing Integration Results

RT: 10.05  
Response: 614  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 9.96  
Response: 369463  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 12:33  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab Sample ID: CCVIS 660-136271/3 Calibration Date: 04/08/2013 12:56  
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15  
 Lab File ID: 1CD08003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.057	0.0000	20600	20000	2.9	20.0
2-Methylnaphthalene	Ave	0.6994	0.6534	0.0000	18700	20000	-6.6	20.0
1-Methylnaphthalene	Ave	0.6293	0.6576	0.0000	20900	20000	4.5	20.0
Acenaphthylene	Ave	1.656	1.709	0.0000	20600	20000	3.2	20.0
Acenaphthene	Lin	1.025	1.015	0.0000	19800	20000	-1.0	20.0
Fluorene	Ave	1.367	1.279	0.0000	18700	20000	-6.5	20.0
Phenanthrene	Ave	1.165	1.208	0.0000	20700	20000	3.7	20.0
Anthracene	Ave	1.181	1.203	0.0000	20400	20000	1.8	20.0
Carbazole	Ave	1.012	1.033	0.0000	20400	20000	2.1	20.0
Fluoranthene	Ave	1.287	1.339	0.0000	20800	20000	4.0	20.0
Pyrene	Ave	1.108	1.173	0.0000	21200	20000	5.8	20.0
Benzo[a]anthracene	Lin	1.278	1.085	0.0000	18900	20000	-5.7	20.0
Chrysene	Ave	1.140	1.128	0.0000	19800	20000	-1.0	20.0
Benzo[b]fluoranthene	Ave	1.131	1.060	0.0000	18800	20000	-6.2	20.0
Benzo[k]fluoranthene	Ave	1.094	1.229	0.0000	22500	20000	12.3	20.0
Benzo[a]pyrene	Ave	1.065	1.059	0.0000	19900	20000	-0.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.090	0.0000	21600	20000	7.8	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9360	0.0000	20000	20000	0.2	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9889	0.0000	19200	20000	-4.2	20.0
o-Terphenyl	Lin	0.6233	0.6396	0.0000	20300	20000	1.6	20.0



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\1CD08003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 08-APR-2013 12:56  
 Operator : TP  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM-VM7N

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
								CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 1 Naphthalene-d8			136	3.692	3.692	(1.000)	417933	40.0000	
* 6 Acenaphthene-d10			164	4.774	4.774	(1.000)	297412	40.0000	
* 10 Phenanthrene-d10			188	5.721	5.721	(1.000)	556083	40.0000	
\$ 14 o-Terphenyl			230	5.974	5.974	(1.044)	177839	20.0000	20.3184
* 18 Chrysene-d12			240	7.656	7.656	(1.000)	686748	40.0000	
* 23 Perylene-d12			264	8.821	8.821	(1.000)	698341	40.0000	
2 Naphthalene			128	3.704	3.704	(1.003)	220939	20.0000	20.5821
3 2-Methylnaphthalene			142	4.127	4.127	(1.118)	136544	20.0000	18.6863
4 1-Methylnaphthalene			142	4.192	4.192	(1.135)	137423	20.0000	20.9007
5 Acenaphthylene			152	4.686	4.686	(0.982)	254126	20.0000	20.6452
7 Acenaphthene			154	4.798	4.798	(1.005)	150879	20.0000	19.7902
9 Fluorene			166	5.115	5.115	(1.071)	190125	20.0000	18.7068
11 Phenanthrene			178	5.739	5.739	(1.003)	336001	20.0000	20.7462
12 Anthracene			178	5.768	5.768	(1.008)	334424	20.0000	20.3697
13 Carbazole			167	5.880	5.880	(1.028)	287155	20.0000	20.4151
15 Fluoranthene			202	6.568	6.568	(1.148)	372208	20.0000	20.8098
16 Pyrene			202	6.739	6.739	(0.880)	402664	20.0000	21.1667
17 Benzo(a)anthracene			228	7.651	7.651	(0.999)	372426	20.0000	18.8519
19 Chrysene			228	7.674	7.674	(1.002)	387417	20.0000	19.7971
20 Benzo(b)fluoranthene			252	8.486	8.486	(0.962)	370190	20.0000	18.7507
21 Benzo(k)fluoranthene			252	8.503	8.503	(0.964)	429043	20.0000	22.4691
22 Benzo(a)pyrene			252	8.768	8.768	(0.994)	369840	20.0000	19.8974
24 Indeno(1,2,3-cd)pyrene			276	9.956	9.956	(1.129)	380593	20.0000	21.5579(M)
25 Dibenzo(a,h)anthracene			278	9.968	9.968	(1.130)	326832	20.0000	20.0405
26 Benzo(g,h,i)perylene			276	10.297	10.297	(1.167)	345300	20.0000	19.1637

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD08003.D

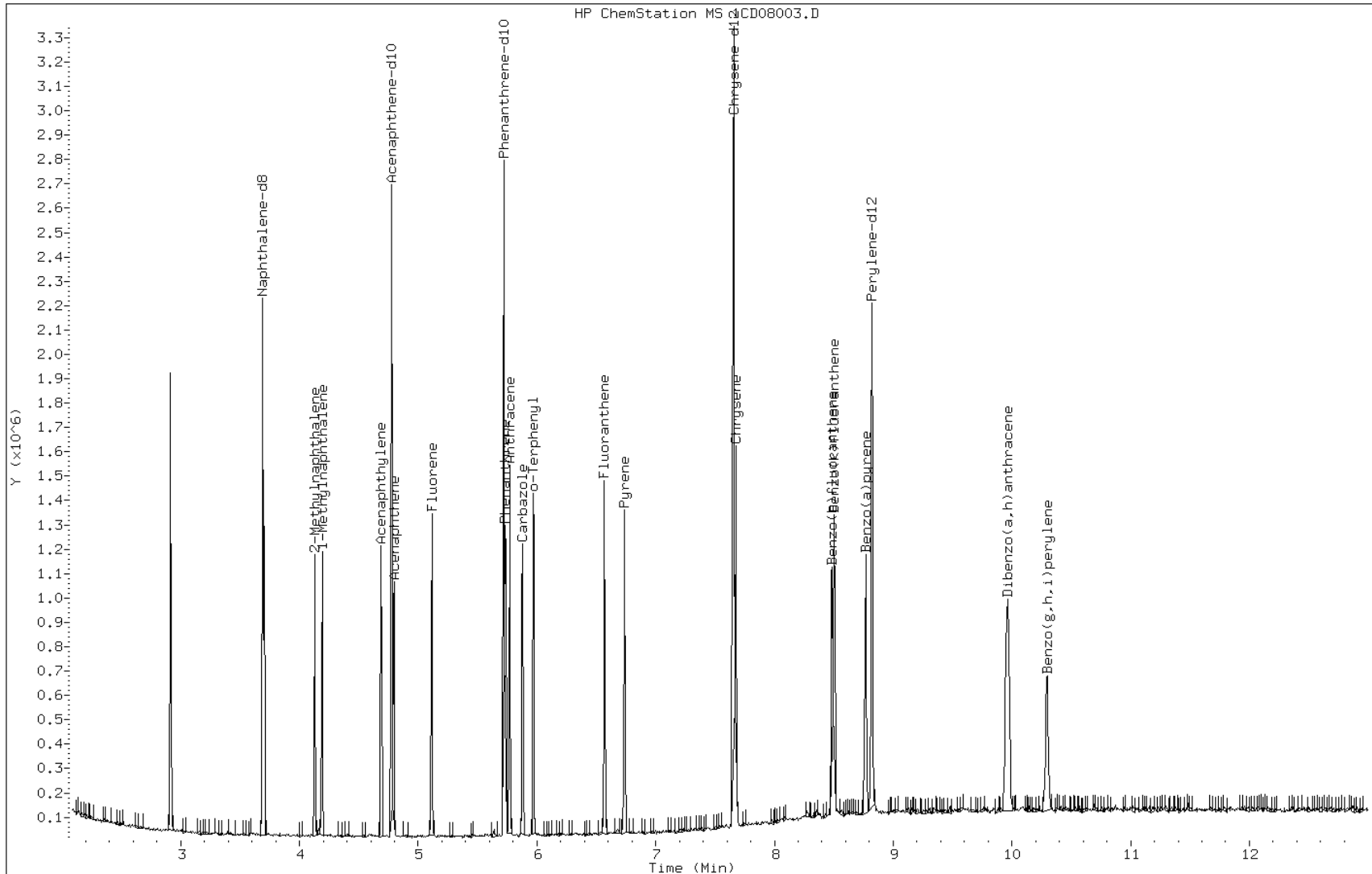
Date: 08-APR-2013 12:56

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: TP

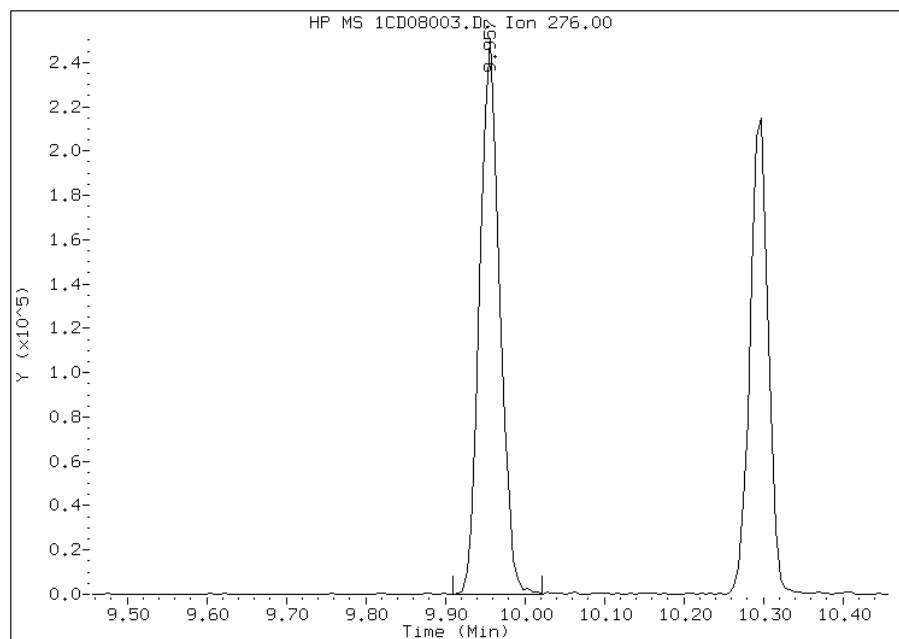


# Manual Integration Report

Data File: 1CD08003.D  
Inj. Date and Time: 08-APR-2013 12:56  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

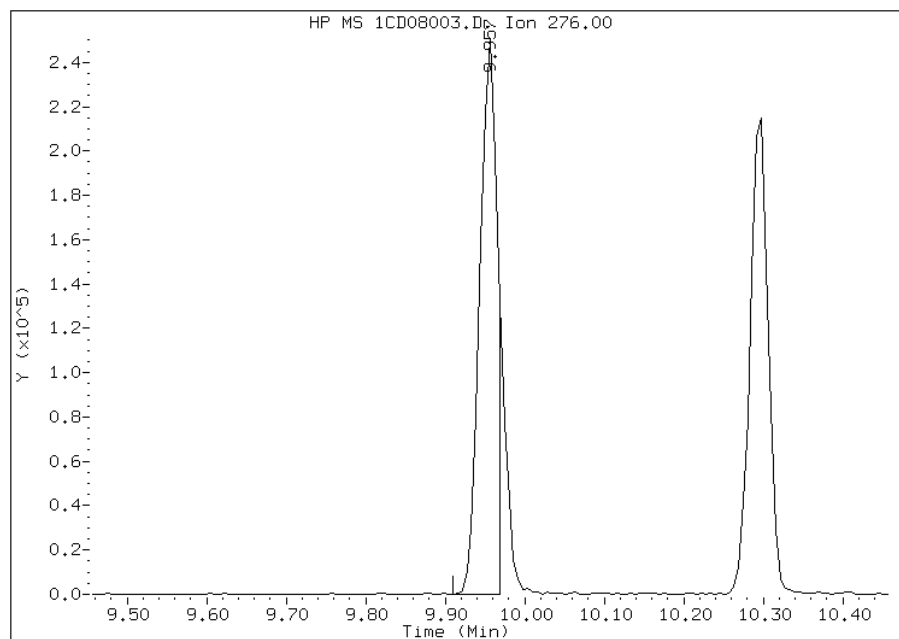
## Processing Integration Results

RT: 9.96  
Response: 433671  
Amount: 25  
Conc: 25



## Manual Integration Results

RT: 9.96  
Response: 380593  
Amount: 22  
Conc: 22



Manually Integrated By: perrint  
Modification Date: 08-Apr-2013 13:30  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Lab Sample ID: CCVIS 660-136263/3 Calibration Date: 04/09/2013 11:47  
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15  
 Lab File ID: 1CD09003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.053	0.0000	20500	20000	2.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.6932	0.0000	19800	20000	-0.9	20.0
1-Methylnaphthalene	Ave	0.6293	0.6412	0.0000	20400	20000	1.9	20.0
Acenaphthylene	Ave	1.656	1.668	0.0000	20100	20000	0.7	20.0
Acenaphthene	Lin	1.025	0.9583	0.0000	18700	20000	-6.5	20.0
Fluorene	Ave	1.367	1.371	0.0000	20100	20000	0.3	20.0
Phenanthrene	Ave	1.165	1.134	0.0000	19500	20000	-2.7	20.0
Anthracene	Ave	1.181	1.155	0.0000	19600	20000	-2.2	20.0
Carbazole	Ave	1.012	1.021	0.0000	20200	20000	0.9	20.0
Fluoranthene	Ave	1.287	1.312	0.0000	20400	20000	2.0	20.0
Pyrene	Ave	1.108	1.129	0.0000	20400	20000	1.9	20.0
Benzo[a]anthracene	Lin	1.278	1.083	0.0000	18800	20000	-5.9	20.0
Chrysene	Ave	1.140	1.120	0.0000	19700	20000	-1.7	20.0
Benzo[b]fluoranthene	Ave	1.131	1.186	0.0000	21000	20000	4.9	20.0
Benzo[k]fluoranthene	Ave	1.094	1.154	0.0000	21100	20000	5.5	20.0
Benzo[a]pyrene	Ave	1.065	1.059	0.0000	19900	20000	-0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9173	0.0000	18100	20000	-9.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9301	0.0000	19900	20000	-0.4	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9894	0.0000	19200	20000	-4.1	20.0
o-Terphenyl	Lin	0.6233	0.6038	0.0000	19200	20000	-3.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 09-APR-2013 11:47  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 12:07 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.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	3.686	3.686	(1.000)	357710	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	263195	40.0000	
* 10 Phenanthrene-d10	188	5.716	5.716	(1.000)	531432	40.0000	(H)
\$ 14 o-Terphenyl	230	5.968	5.968	(1.044)	160437	20.0000	19.2211
* 18 Chrysene-d12	240	7.657	7.657	(1.000)	649492	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	642611	40.0000	(H)
2 Naphthalene	128	3.698	3.698	(1.003)	188263	20.0000	20.4907
3 2-Methylnaphthalene	142	4.127	4.127	(1.120)	123987	20.0000	19.8245
4 1-Methylnaphthalene	142	4.186	4.186	(1.136)	114686	20.0000	20.3792
5 Acenaphthylene	152	4.686	4.686	(0.982)	219463	20.0000	20.1471
7 Acenaphthene	154	4.792	4.792	(1.004)	126111	20.0000	18.6920
9 Fluorene	166	5.110	5.110	(1.070)	180366	20.0000	20.0537
11 Phenanthrene	178	5.733	5.733	(1.003)	301210	20.0000	19.4608(H)
12 Anthracene	178	5.768	5.768	(1.009)	306920	20.0000	19.5616(H)
13 Carbazole	167	5.874	5.874	(1.028)	271183	20.0000	20.1739(H)
15 Fluoranthene	202	6.568	6.568	(1.149)	348726	20.0000	20.4013(H)
16 Pyrene	202	6.733	6.733	(0.879)	366676	20.0000	20.3805
17 Benzo(a)anthracene	228	7.645	7.645	(0.998)	351642	20.0000	18.8211
19 Chrysene	228	7.674	7.674	(1.002)	363844	20.0000	19.6590
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	381044	20.0000	20.9743(H)
21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	370749	20.0000	21.1001
22 Benzo(a)pyrene	252	8.768	8.768	(0.993)	340105	20.0000	19.8845(H)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	294723	20.0000	18.1418(MH)
25 Dibenzo(a,h)anthracene	278	9.974	9.974	(1.130)	298832	20.0000	19.9128(H)
26 Benzo(g,h,i)perylene	276	10.298	10.298	(1.167)	317908	20.0000	19.1736(H)

QC Flag Legend

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

Data File: 1CD09003.D

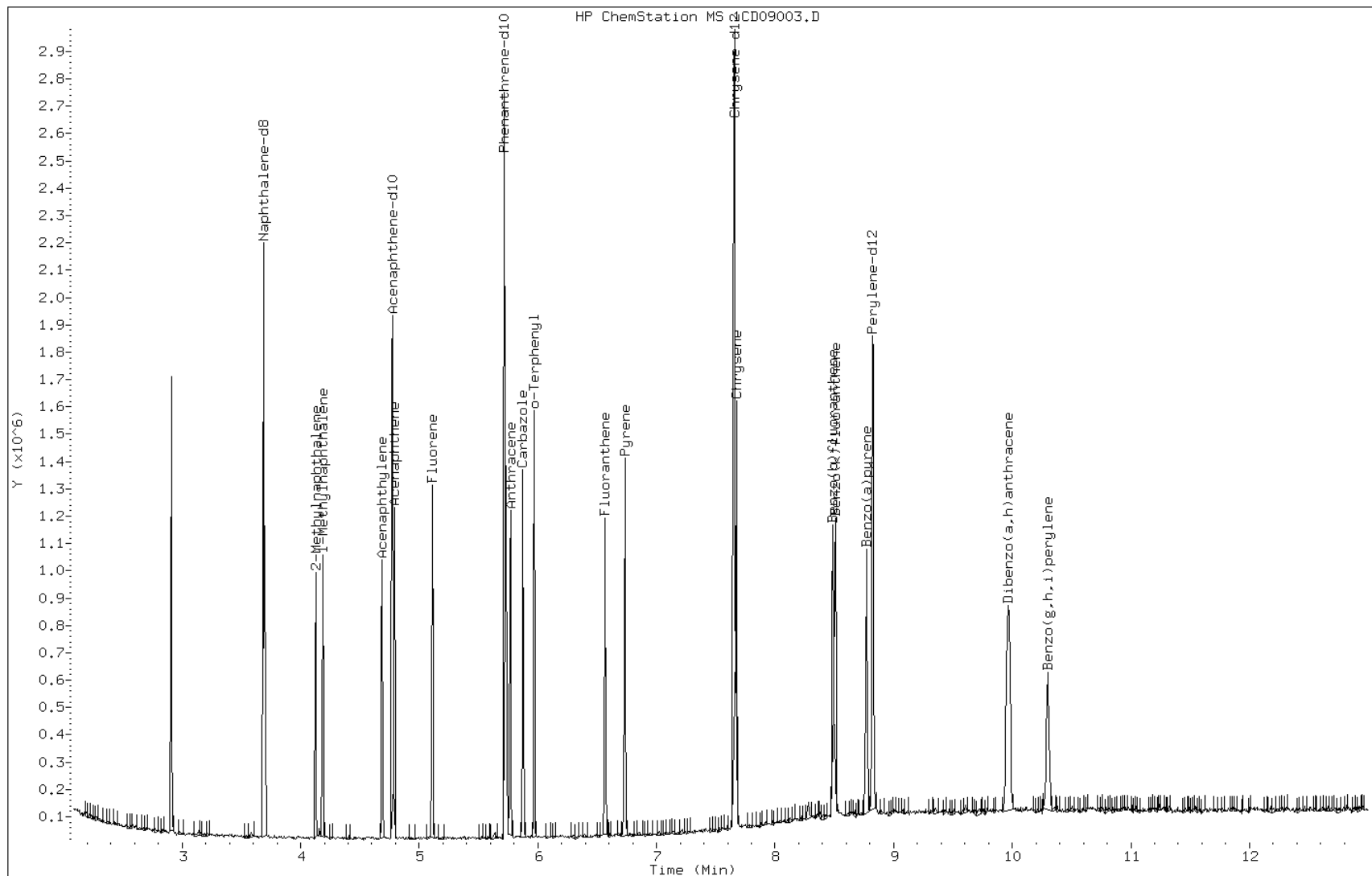
Date: 09-APR-2013 11:47

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

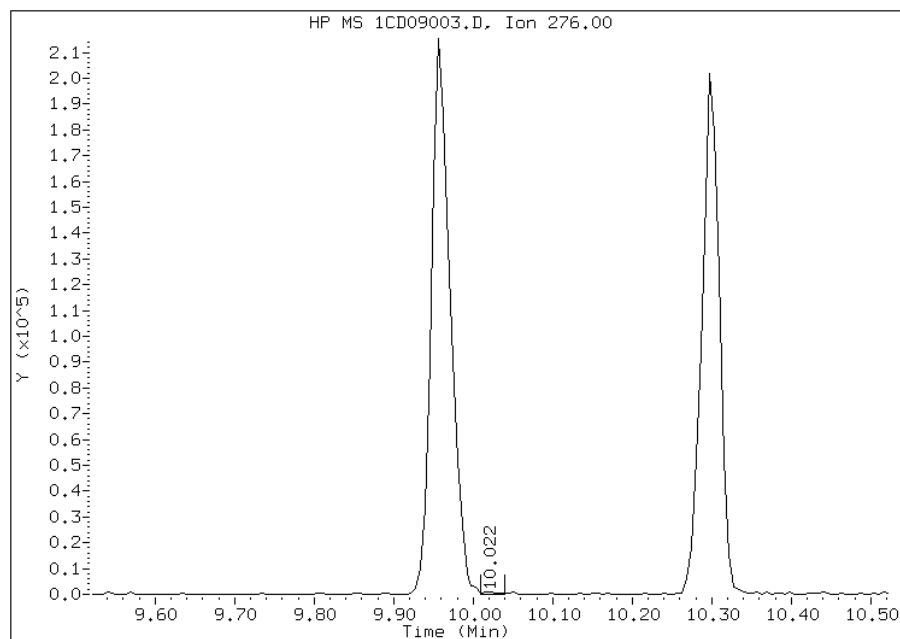


# Manual Integration Report

Data File: 1CD09003.D  
Inj. Date and Time: 09-APR-2013 11:47  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

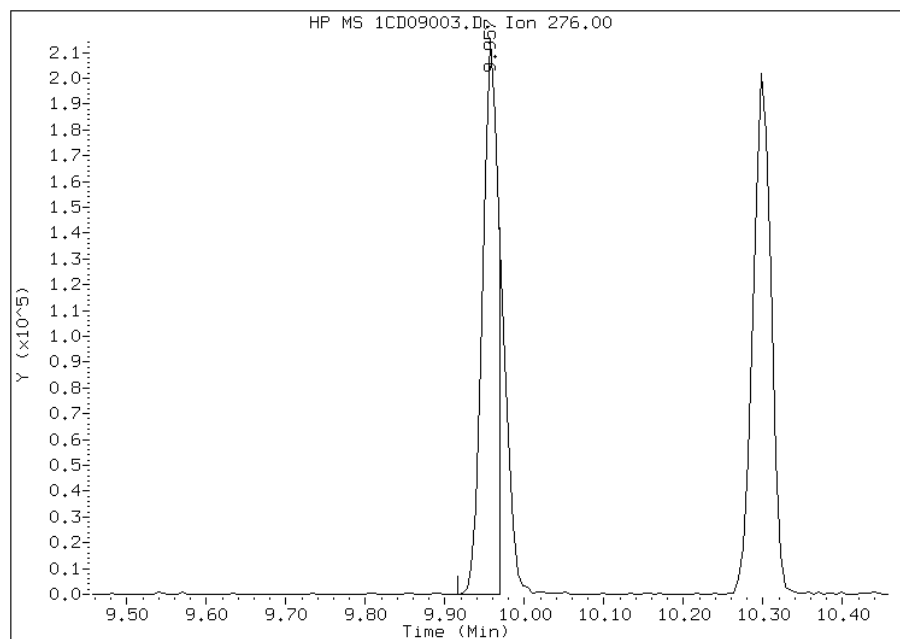
## Processing Integration Results

RT: 10.02  
Response: 1228  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 9.96  
Response: 294723  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 12:08  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\1AD09002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 09-APR-2013 10:18  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1465456  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 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				
4.953	4.963	-0.010	198	207040		50.00-	0.00	100.00	
4.953	4.963	-0.010	51	46512		10.00-	80.00	22.47	
4.953	4.963	-0.010	68	0	0.0	0.00-	2.00	0.00	
4.953	4.963	-0.010	69	50000		0.00-	0.00	24.15	
4.953	4.963	-0.010	70	472		0.00-	2.00	0.94	
4.953	4.963	-0.010	127	74616		10.00-	80.00	36.04	
4.953	4.963	-0.010	197	0	0.0	0.00-	2.00	0.00	
4.953	4.963	-0.010	442	168320		50.00-	0.00	81.30	
4.953	4.963	-0.010	199	12235		5.00-	9.00	5.91	
4.953	4.963	-0.010	275	48480		10.00-	60.00	23.42	
4.953	4.963	-0.010	365	4887		1.00-	0.00	2.36	
4.953	4.963	-0.010	441	22920		0.01-	99.99	66.29	
4.953	4.963	-0.010	443	34576		15.00-	24.00	20.54	



Data File: 1AD09002.D

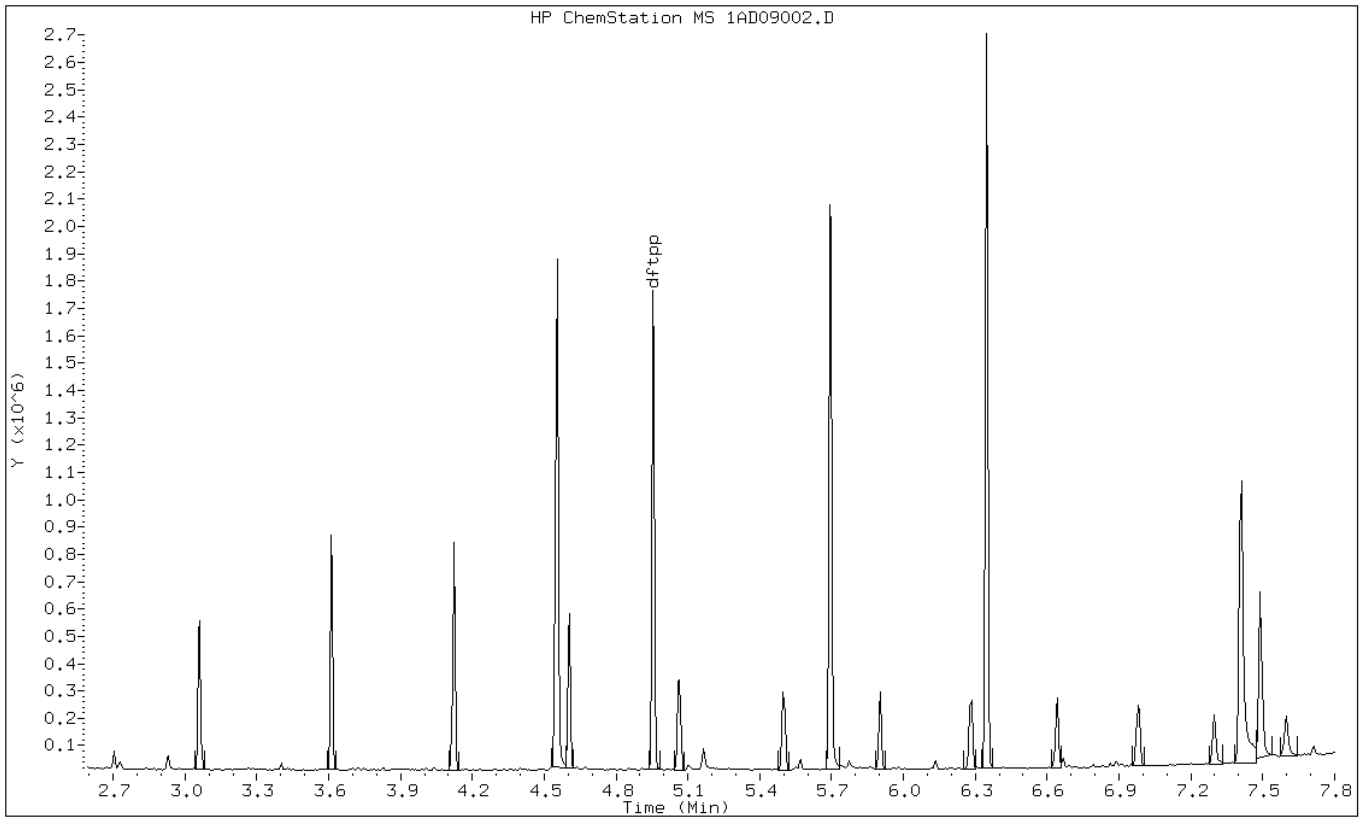
Date: 09-APR-2013 10:18

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



Data File: 1AD09002.D

Date: 09-APR-2013 10:18

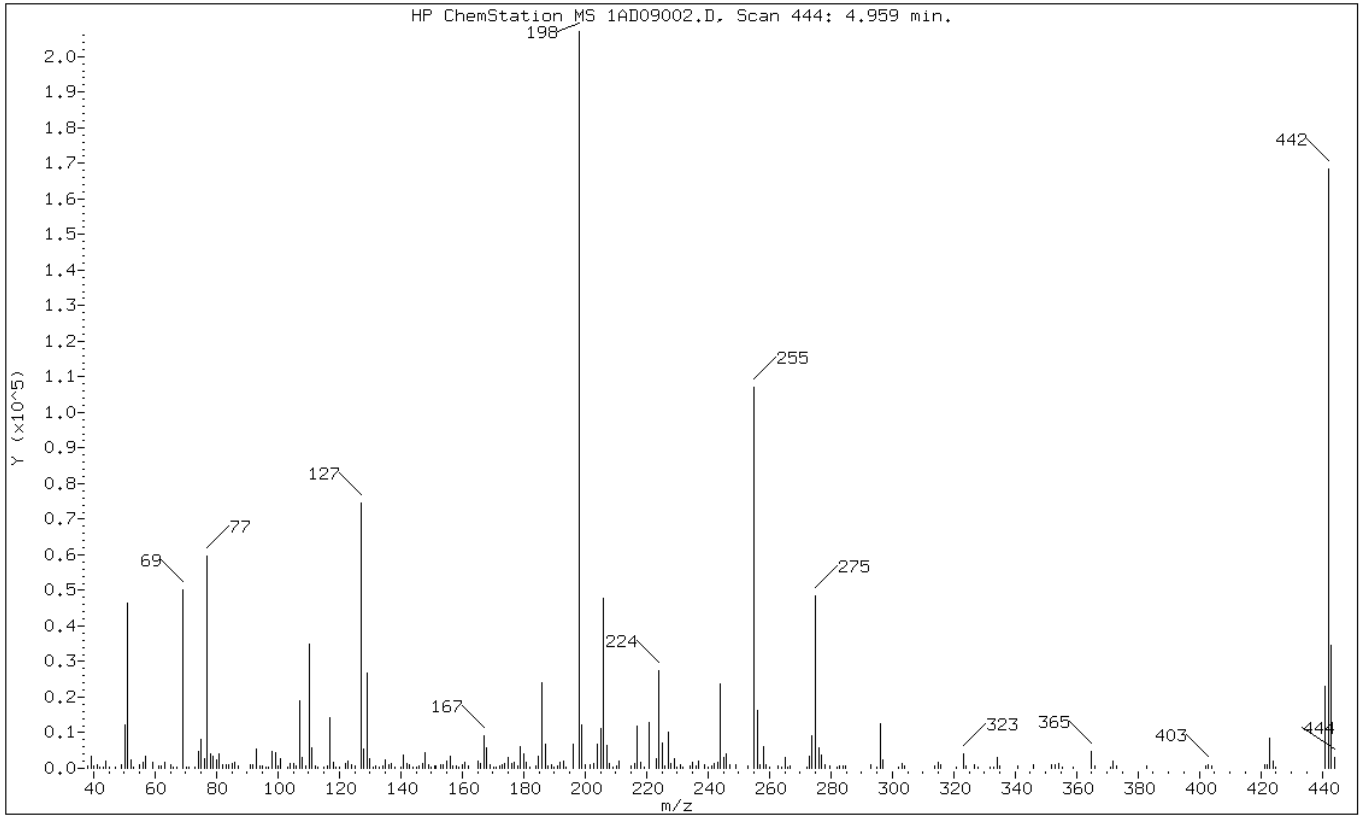
Client ID: DFTPP

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	22.47
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	24.15
70	Less than 2.00% of mass 69	0.23 ( 0.94)
127	10.00 - 80.00% of mass 198	36.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	81.30
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	23.42
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	11.07
443	15.00 - 24.00% of mass 442	16.70 ( 20.54)

Data File: 1AD09002.D

Date: 09-APR-2013 10:18

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09002.D

Spectrum: HP ChemStation MS 1AD09002.D, Scan 444: 4.959 min.

Location of Maximum: 197.95

Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.05	716	113.05	287	182.05	412	262.85	837
39.05	3288	114.95	260	184.05	685	264.05	262
40.05	637	116.05	786	184.95	3245	265.05	3085
41.05	905	116.95	14104	186.05	23952	265.85	489
42.05	268	118.05	1553	187.05	6730	266.75	708
43.05	372	118.95	395	188.05	796	272.05	305
44.05	1930	120.05	285	188.95	1066	273.05	3273
44.95	258	121.95	1391	189.95	280	273.95	9212
46.95	393	122.95	1965	190.95	573	275.05	48480
49.05	1184	124.05	1110	191.95	1637	276.05	5837
50.05	12192	125.05	831	193.05	2179	276.95	3876
51.05	46512	127.05	74616	193.95	497	277.95	1024
52.05	2262	127.95	5504	195.95	6847	279.85	594
53.05	279	128.95	26800	197.95	207040	281.85	271
55.05	1000	129.95	2867	198.95	12235	282.95	548
55.95	1734	131.05	338	199.95	1104	284.05	517
57.05	3403	131.95	684	201.65	899	284.95	801
59.05	1740	132.85	258	202.95	1200	292.95	878
61.05	739	134.05	809	204.05	6764	295.05	344
62.05	522	135.05	2363	205.05	11191	296.05	12678
63.05	1818	136.05	1098	206.05	47720	296.95	2210
65.05	1123	137.05	1494	207.05	6373	302.05	310
65.95	318	137.95	318	207.85	1394	303.05	1513
67.05	258	139.95	460	209.05	500	304.15	584
68.95	50000	140.95	3721	210.15	811	313.95	775
70.05	472	141.95	1508	210.95	1866	315.05	1532
71.05	503	142.95	1111	214.95	556	315.95	902
73.05	334	143.85	325	215.95	1398	321.05	496
74.05	4653	144.95	415	216.95	11927	323.05	4111
74.95	8058	146.05	703	217.95	1708	324.05	642
76.05	2567	147.05	1463	219.15	316	326.95	983
77.05	59696	148.05	4281	220.95	12964	327.95	328
78.05	3995	148.95	1163	223.05	2625	331.95	344
78.95	3445	149.95	396	224.05	27368	332.95	287
80.05	2409	151.05	565	225.05	7203	334.05	3031
80.95	4123	151.55	529	226.05	731	335.05	755
82.05	985	152.95	1127	226.95	10124	341.05	710
83.05	1159	153.95	1150	227.95	1439	346.05	1051
84.05	1102	154.95	2133	228.95	2725	351.95	1046
84.95	1190	156.05	3267	229.95	337	352.95	987

85.95	1589	156.95	716	231.05	1113	354.05	1367
86.95	702	157.95	686	231.95	309	355.25	323
91.05	1159	158.95	503	234.05	655	359.05	283
91.95	1117	159.95	1137	234.95	1534	364.95	4887
93.05	5493	160.95	1704	236.05	555	365.85	758
93.95	622	161.85	622	236.95	1870	371.05	319
95.05	687	164.95	1932	238.85	1158	372.05	1941
95.95	441	165.95	1214	239.95	391	373.05	662
97.05	360	166.95	9057	241.05	760	382.95	678
98.05	4781	167.95	5863	242.05	1486	401.95	764
99.05	4415	168.95	1139	243.05	1685	403.05	1155
99.95	565	170.05	417	244.05	23608	403.95	514
100.95	2650	171.05	489	245.05	3079	421.15	888
103.05	440	172.05	688	246.05	4078	421.95	1036
103.95	1377	172.95	974	246.95	915	423.05	8420
104.95	1463	173.95	1504	249.05	1030	423.95	1901
105.95	617	175.05	3172	253.05	690	424.85	265
106.95	19056	175.95	1258	255.05	107120	440.95	22920
108.05	3170	176.95	1768	256.05	16161	442.05	168320
109.05	661	178.05	579	256.95	1147	443.05	34576
110.05	34936	178.95	6169	257.95	5936	444.05	3040
111.05	5746	179.95	4186	258.95	951		
112.05	755	180.95	1806	260.05	252		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 02-APR-2013 11:31  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.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				
7.310	7.469	-0.159	198	70432			50.00-	0.00	100.00
7.310	7.469	-0.159	51	24576			10.00-	80.00	34.89
7.310	7.469	-0.159	68	571			0.00-	2.00	1.62
7.310	7.469	-0.159	69	35176			0.00-	0.00	49.94
7.310	7.469	-0.159	70	308			0.00-	2.00	0.88
7.310	7.469	-0.159	127	29688			10.00-	80.00	42.15
7.310	7.469	-0.159	197	310			0.00-	2.00	0.44
7.310	7.469	-0.159	442	39944			50.00-	0.00	56.71
7.310	7.469	-0.159	199	5383			5.00-	9.00	7.64
7.310	7.469	-0.159	275	15117			10.00-	60.00	21.46
7.310	7.469	-0.159	365	2390			1.00-	0.00	3.39
7.310	7.469	-0.159	441	7169			0.01-	99.99	92.67
7.310	7.469	-0.159	443	7736			15.00-	24.00	19.37

Data File: 1CD02002.D

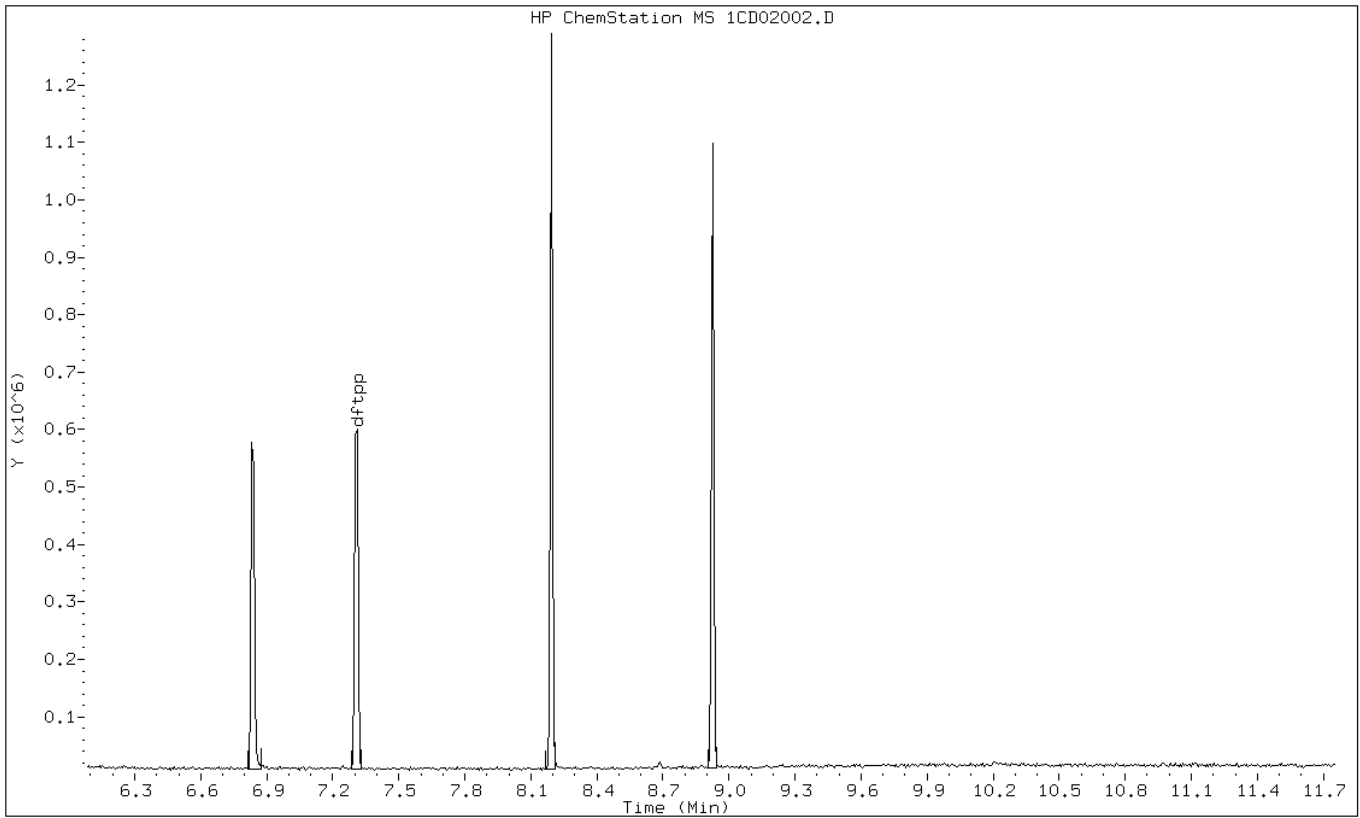
Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02002.D

Date: 02-APR-2013 11:31

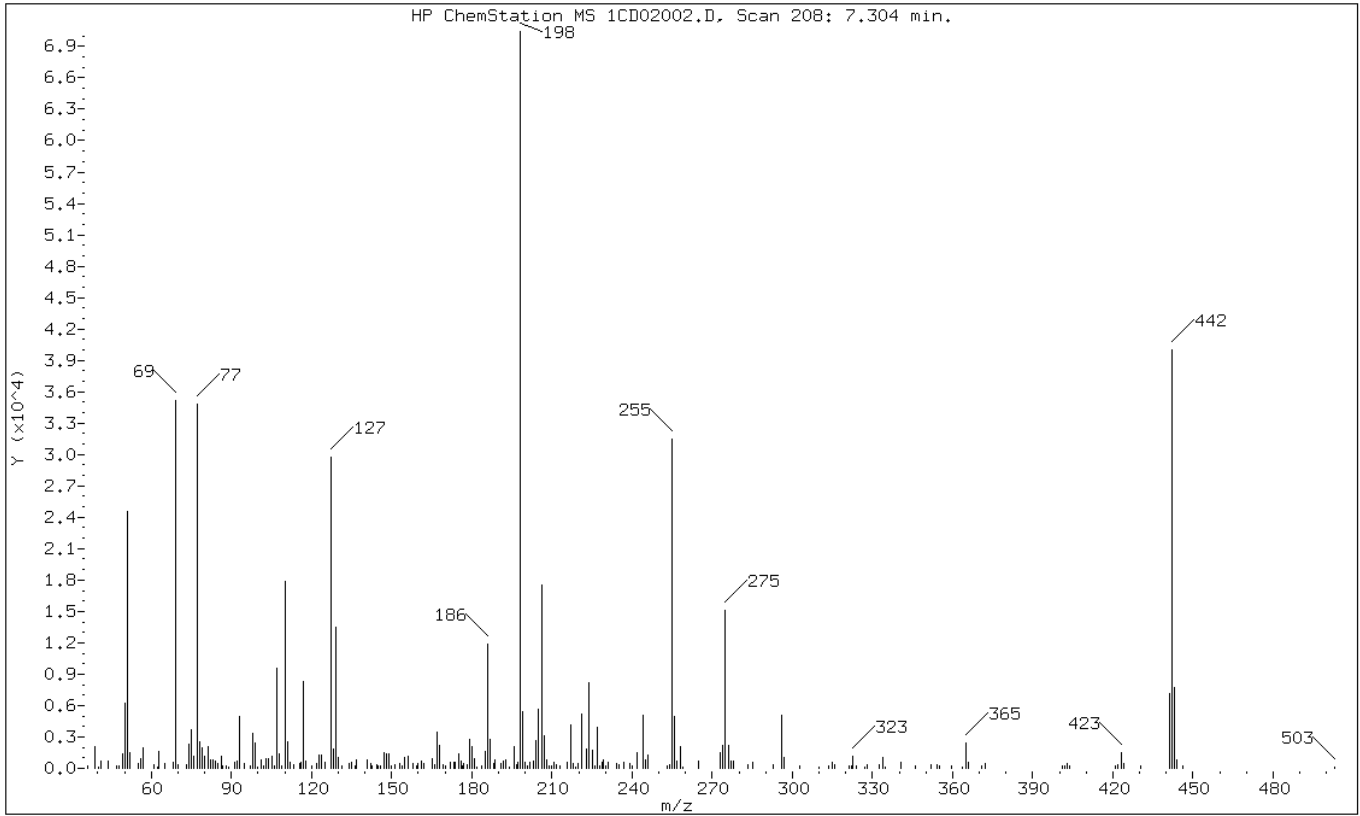
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 ( 1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 ( 0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 ( 19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMC5973.i\1C040213\_PAHIC.b\1CD02002.D

Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.

Location of Maximum: 198.00

Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218



93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05003.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 05-APR-2013 11:57  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.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				
7.286	7.469	-0.183	198	70588			50.00-	0.00	100.00
7.286	7.469	-0.183	51	29336			10.00-	80.00	41.56
7.286	7.469	-0.183	68	565			0.00-	2.00	1.45
7.286	7.469	-0.183	69	39020			0.00-	0.00	55.28
7.286	7.469	-0.183	70	218			0.00-	2.00	0.56
7.286	7.469	-0.183	127	34576			10.00-	80.00	48.98
7.286	7.469	-0.183	197	438			0.00-	2.00	0.62
7.286	7.469	-0.183	442	39248			50.00-	0.00	55.60
7.286	7.469	-0.183	199	4704			5.00-	9.00	6.66
7.286	7.469	-0.183	275	13612			10.00-	60.00	19.28
7.286	7.469	-0.183	365	2087			1.00-	0.00	2.96
7.286	7.469	-0.183	441	5332			0.01-	99.99	64.58
7.286	7.469	-0.183	443	8257			15.00-	24.00	21.04

Data File: 1CD05003.D

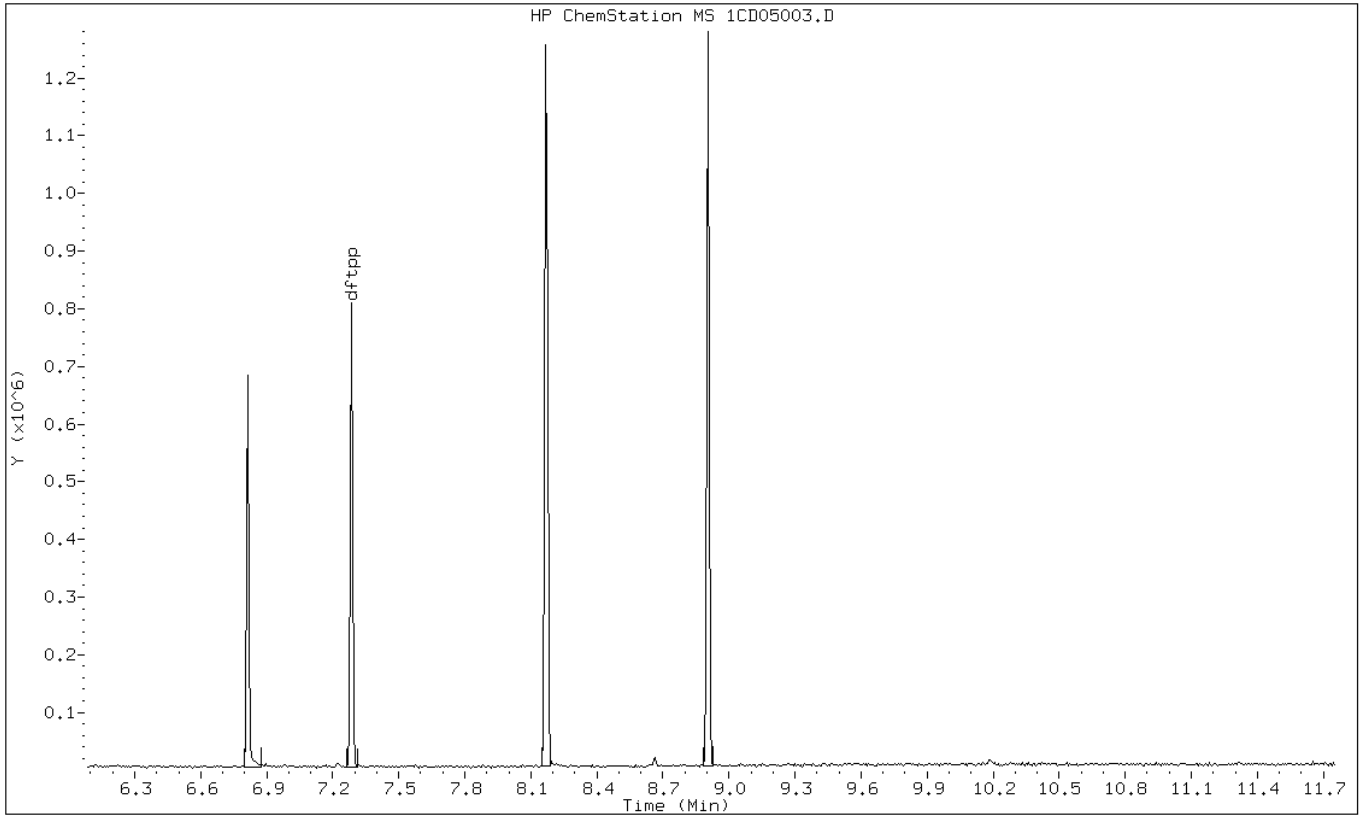
Date: 05-APR-2013 11:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD05003.D

Date: 05-APR-2013 11:57

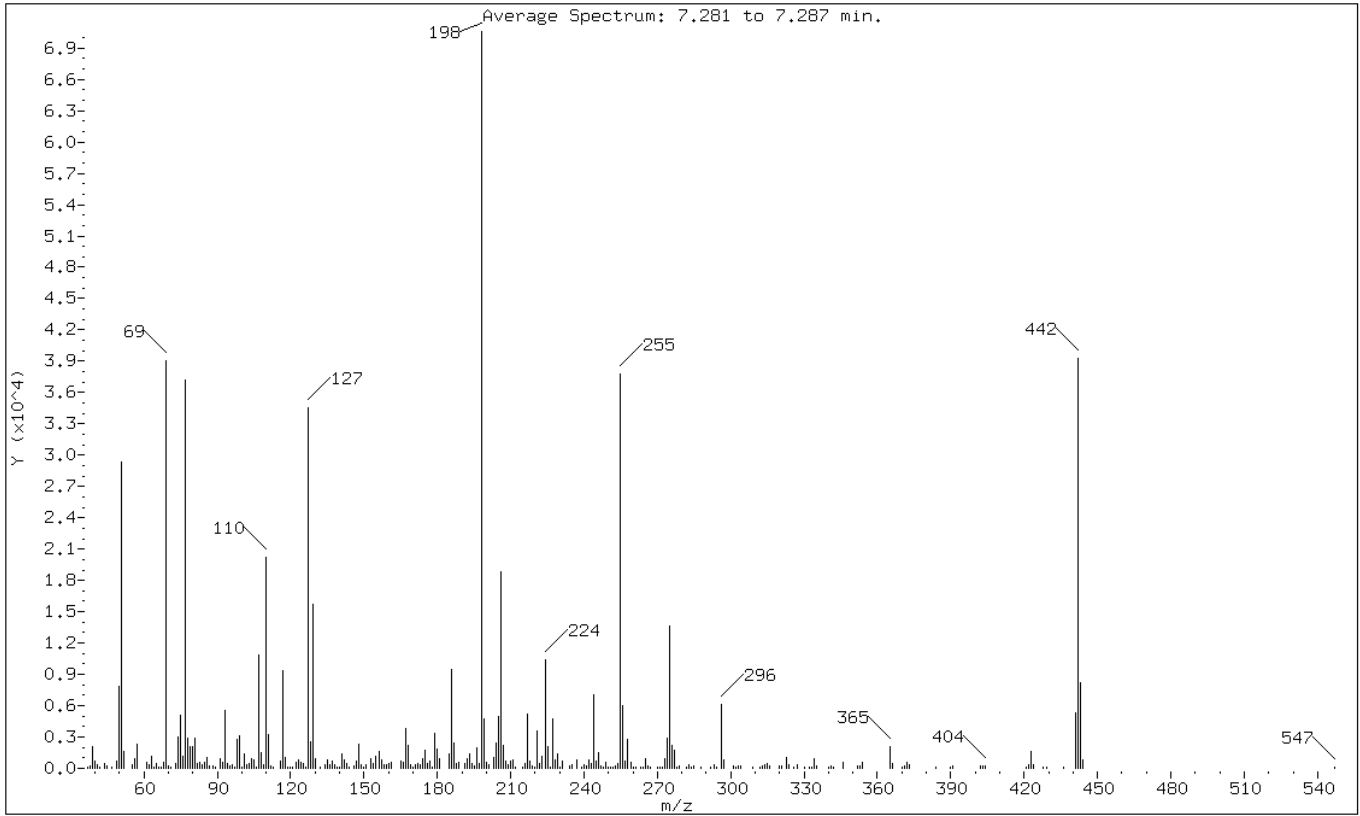
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.56
68	Less than 2.00% of mass 69	0.80 ( 1.45)
69	Mass 69 relative abundance	55.28
70	Less than 2.00% of mass 69	0.31 ( 0.56)
127	10.00 - 80.00% of mass 198	48.98
197	Less than 2.00% of mass 198	0.62
442	Greater than 50.00% of mass 198	55.60
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	19.28
365	Greater than 1.00% of mass 198	2.96
441	Present, but less than mass 443	7.55
443	15.00 - 24.00% of mass 442	11.70 ( 21.04)

Data File: 1CD05003.D

Date: 05-APR-2013 11:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMC5973.i\1C040513.b\1CD05003.D

Spectrum: Average Spectrum: 7.281 to 7.287 min.

Location of Maximum: 198.00

Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	87	118.00	1005	198.00	70584	277.00	1778
38.00	215	119.00	77	199.00	4704	278.00	123
39.00	2084	120.00	109	200.00	535	279.00	249
40.00	685	121.00	95	201.00	377	282.00	110
41.00	373	122.00	557	203.00	1061	283.00	366
42.00	99	123.00	824	204.00	2377	284.00	78
44.00	466	124.00	525	205.00	4989	285.00	223
45.00	227	125.00	459	206.00	18816	288.00	110
47.00	162	126.00	156	207.00	2185	292.00	134
49.00	724	127.00	34576	208.00	693	293.00	289
50.00	7845	128.00	2580	209.00	314	294.00	163
51.00	29336	129.00	15715	210.00	666	296.00	6099
52.00	1655	130.00	920	211.00	776	297.00	790
55.00	364	132.00	129	212.00	124	301.00	224
56.00	896	134.00	387	215.00	121	302.00	162
57.00	2300	135.00	780	216.00	407	303.00	275
61.00	566	136.00	313	217.00	5252	304.00	252
62.00	316	137.00	703	218.00	694	309.00	166
63.00	1159	138.00	398	219.00	258	312.00	119
64.00	78	139.00	81	220.00	136	313.00	204
65.00	468	140.00	81	221.00	3530	314.00	309
66.00	82	141.00	1344	222.00	504	315.00	458
67.00	138	142.00	755	223.00	1120	316.00	213
68.00	565	143.00	438	224.00	10390	320.00	205
69.00	39016	144.00	75	225.00	2068	321.00	246
70.00	218	146.00	214	226.00	144	323.00	1081
71.00	79	147.00	650	227.00	4743	324.00	400
73.00	429	148.00	2309	228.00	766	326.00	99
74.00	3044	149.00	380	229.00	1355	327.00	399
75.00	5071	150.00	82	230.00	78	330.00	118
76.00	1173	151.00	300	231.00	697	332.00	99
77.00	37208	153.00	927	234.00	233	333.00	94
78.00	2848	154.00	467	235.00	309	334.00	919
79.00	2133	155.00	1200	237.00	759	335.00	218
80.00	2030	156.00	1561	239.00	78	340.00	87
81.00	2919	157.00	859	240.00	290	341.00	188
82.00	460	158.00	326	241.00	276	342.00	147
83.00	534	159.00	358	242.00	757	346.00	613
84.00	344	160.00	508	243.00	471	352.00	275
85.00	549	161.00	601	244.00	7050	353.00	186

86.00	1030	165.00	731	245.00	670	354.00	548
87.00	176	166.00	623	246.00	1507	365.00	2087
88.00	257	167.00	3864	247.00	284	366.00	490
89.00	87	168.00	2200	248.00	109	370.00	147
91.00	945	169.00	331	249.00	616	371.00	183
92.00	633	170.00	165	250.00	141	372.00	601
93.00	5573	171.00	295	251.00	99	373.00	335
94.00	433	172.00	412	252.00	82	384.00	140
95.00	219	173.00	329	253.00	183	390.00	75
96.00	357	174.00	969	254.00	496	391.00	206
97.00	94	175.00	1726	255.00	37768	402.00	252
98.00	2760	176.00	453	256.00	6014	403.00	188
99.00	3086	177.00	636	257.00	656	404.00	274
100.00	108	178.00	167	258.00	2749	421.00	79
101.00	1360	179.00	3315	259.00	560	422.00	289
102.00	383	180.00	1844	260.00	94	423.00	1582
103.00	417	181.00	957	261.00	110	424.00	356
104.00	900	185.00	1392	263.00	75	428.00	103
105.00	865	186.00	9523	264.00	82	429.00	102
106.00	162	187.00	2465	265.00	976	436.00	121
107.00	10874	188.00	440	266.00	191	441.00	5332
108.00	1494	189.00	611	267.00	142	442.00	39248
109.00	397	191.00	453	270.00	87	443.00	8257
110.00	20224	192.00	872	271.00	101	444.00	752
111.00	3238	193.00	1334	272.00	155	547.00	127
112.00	219	194.00	408	273.00	972		
113.00	166	195.00	217	274.00	2900		
116.00	660	196.00	1965	275.00	13612		
117.00	9344	197.00	438	276.00	2248		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 08-APR-2013 12:39  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.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: TAM-VM7N

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO		
====	=====	=====	====	=====	=====	=====	=====		
1 dftpp					CAS #: 5074-71-5				
7.280	7.469	-0.189	198	85840		50.00- 0.00	100.00		
7.280	7.469	-0.189	51	31064		10.00- 80.00	36.19		
7.280	7.469	-0.189	68	632		0.00- 2.00	1.45		
7.280	7.469	-0.189	69	43528		0.00- 0.00	50.71		
7.280	7.469	-0.189	70	167		0.00- 2.00	0.38		
7.280	7.469	-0.189	127	42768		10.00- 80.00	49.82		
7.280	7.469	-0.189	197	584		0.00- 2.00	0.68		
7.280	7.469	-0.189	442	44832		50.00- 0.00	52.23		
7.280	7.469	-0.189	199	5035		5.00- 9.00	5.87		
7.280	7.469	-0.189	275	16536		10.00- 60.00	19.26		
7.280	7.469	-0.189	365	4185		1.00- 0.00	4.88		
7.280	7.469	-0.189	441	6331		0.01- 99.99	81.43		
7.280	7.469	-0.189	443	7775		15.00- 24.00	17.34		

Data File: 1CD08002.D

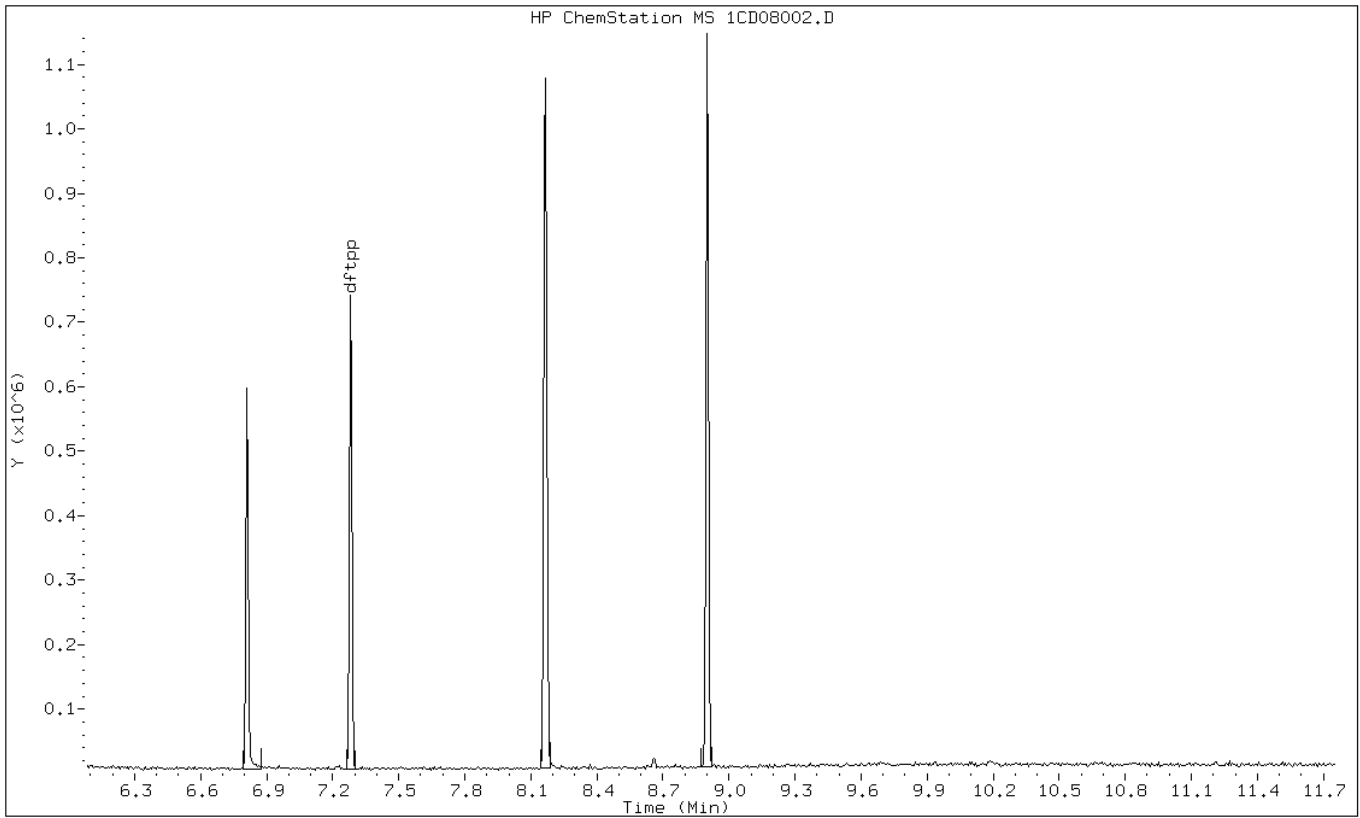
Date: 08-APR-2013 12:39

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: TP





Data File: 1CD08002.D

Date: 08-APR-2013 12:39

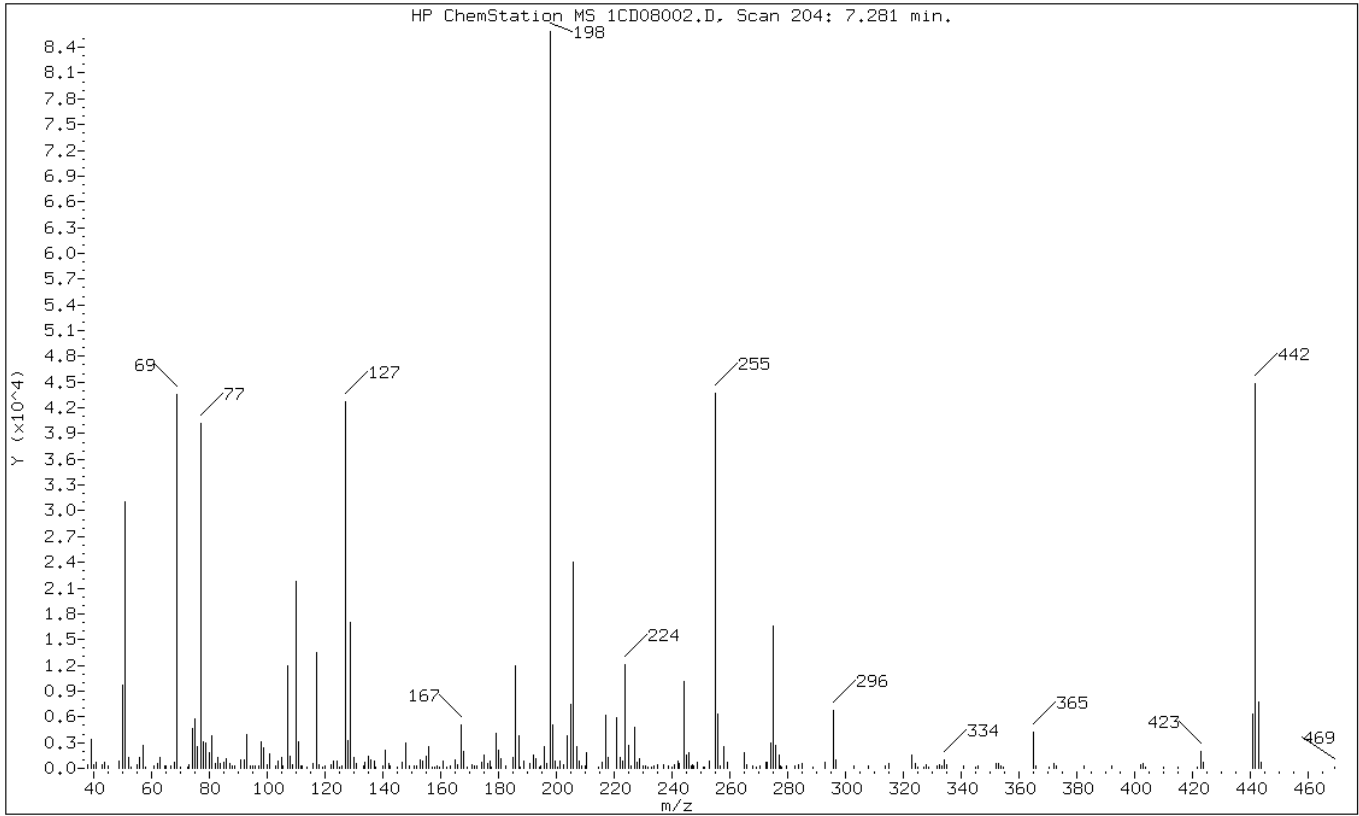
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: TP

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	36.19
68	Less than 2.00% of mass 69	0.74 ( 1.45)
69	Mass 69 relative abundance	50.71
70	Less than 2.00% of mass 69	0.19 ( 0.38)
127	10.00 - 80.00% of mass 198	49.82
197	Less than 2.00% of mass 198	0.68
442	Greater than 50.00% of mass 198	52.23
199	5.00 - 9.00% of mass 198	5.87
275	10.00 - 60.00% of mass 198	19.26
365	Greater than 1.00% of mass 198	4.88
441	Present, but less than mass 443	7.38
443	15.00 - 24.00% of mass 442	9.06 ( 17.34)

Data File: 1CD08002.D

Date: 08-APR-2013 12:39

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: TP

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08002.D

Spectrum: HP ChemStation MS 1CD08002.D, Scan 204: 7.281 min.

Location of Maximum: 198.00

Number of points: 255

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	444	111.70	284	187.00	3763	265.00	1786
39.10	3347	112.10	248	187.80	205	266.00	401
40.00	438	113.90	159	188.80	847	268.20	221
41.10	735	115.80	605	190.90	499	269.10	198
43.10	355	117.10	13469	192.00	1580	270.70	347
43.90	680	118.10	439	193.10	1146	272.80	751
45.20	286	119.10	192	194.30	193	273.00	746
49.00	867	120.00	244	194.80	348	274.10	2944
50.10	9711	122.00	482	196.10	2496	275.00	16536
51.10	31064	123.00	894	196.80	584	276.10	2635
52.00	1195	124.10	799	198.00	85840	277.10	1577
53.20	166	125.00	159	199.00	5035	277.70	223
55.10	426	126.00	311	199.80	796	278.20	167
56.00	1315	127.10	42768	200.50	152	279.80	211
57.00	2671	128.10	3265	201.20	907	282.80	342
58.20	181	129.00	16992	202.80	486	283.80	356
61.10	263	130.00	1312	204.00	3837	285.00	605
62.10	526	131.10	506	205.00	7445	288.80	186
63.10	1214	133.30	263	206.10	23992	293.00	691
64.80	318	134.00	656	207.00	2533	296.00	6799
65.20	350	135.10	1450	208.00	902	296.80	938
66.90	284	136.10	915	209.00	285	303.00	347
67.90	632	137.10	853	209.90	216	307.90	220
68.20	738	137.80	170	210.70	1891	313.80	246
69.00	43528	140.00	224	214.60	209	315.00	505
70.20	167	141.00	2131	216.10	696	323.10	1505
72.60	156	142.00	620	217.00	6200	324.10	532
73.20	420	142.80	249	218.00	1246	325.00	151
74.10	4690	145.00	207	221.00	5868	327.00	169
75.10	5763	146.90	756	222.00	1250	328.20	356
76.10	2593	148.00	2962	223.00	883	328.80	198
77.10	40248	149.10	293	224.00	12134	331.80	212
78.10	3130	151.10	252	225.10	2681	332.80	468
79.00	2888	151.70	340	226.10	264	333.50	274
80.00	1846	153.10	1022	227.00	4762	334.10	981
81.10	3739	153.90	798	228.00	725	335.10	387
82.10	539	155.10	1441	228.90	1068	340.80	319
83.10	1197	156.10	2460	230.20	290	345.30	187
83.90	585	157.00	187	231.10	268	346.00	340
85.10	705	158.10	156	231.90	175	352.00	527

86.10	1105	158.90	221	232.90	173	353.10	539
87.20	494	159.80	172	234.00	232	353.90	212
88.10	262	161.00	821	235.00	371	354.50	169
88.80	258	162.10	191	237.00	453	365.00	4185
91.00	933	163.30	221	238.90	226	366.00	338
92.10	1003	164.90	1046	239.90	170	370.60	158
93.00	3875	166.00	476	241.10	446	372.00	629
94.30	289	167.00	5080	242.00	832	372.90	327
95.10	252	168.10	2002	242.80	627	382.80	272
96.00	215	169.10	174	244.10	10165	392.10	239
97.00	213	171.10	375	245.20	1497	402.10	363
98.00	3032	171.90	304	246.00	1838	403.00	500
99.00	2447	172.80	259	246.70	338	403.90	181
100.20	371	174.10	640	247.10	362	410.00	159
101.00	1631	175.00	1476	247.80	242	415.00	210
102.90	256	176.30	524	248.90	721	421.80	173
104.00	899	177.00	897	250.80	182	423.00	1938
105.10	1239	177.70	207	251.50	162	424.00	638
105.70	218	179.10	4069	253.10	775	440.90	6331
107.00	11964	180.00	2044	255.00	43704	442.00	44832
108.00	1346	181.10	1116	256.00	6357	443.00	7775
109.00	385	182.70	235	256.90	293	443.90	696
110.00	21840	185.10	1319	258.00	2468	469.30	168
111.00	3096	186.10	11920	259.10	646		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 09-APR-2013 11:31  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.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				
7.280	7.469	-0.189	198	74928			50.00-	0.00	100.00
7.280	7.469	-0.189	51	28256			10.00-	80.00	37.71
7.280	7.469	-0.189	68	439			0.00-	2.00	1.19
7.280	7.469	-0.189	69	36832			0.00-	0.00	49.16
7.280	7.469	-0.189	70	0	0.0	0.0	0.00-	2.00	0.00
7.280	7.469	-0.189	127	33536			10.00-	80.00	44.76
7.280	7.469	-0.189	197	488			0.00-	2.00	0.65
7.280	7.469	-0.189	442	60896			50.00-	0.00	81.27
7.280	7.469	-0.189	199	4873			5.00-	9.00	6.50
7.280	7.469	-0.189	275	14347			10.00-	60.00	19.15
7.280	7.469	-0.189	365	3358			1.00-	0.00	4.48
7.280	7.469	-0.189	441	9103			0.01-	99.99	67.61
7.280	7.469	-0.189	443	13464			15.00-	24.00	22.11

Data File: 1CD09002.D

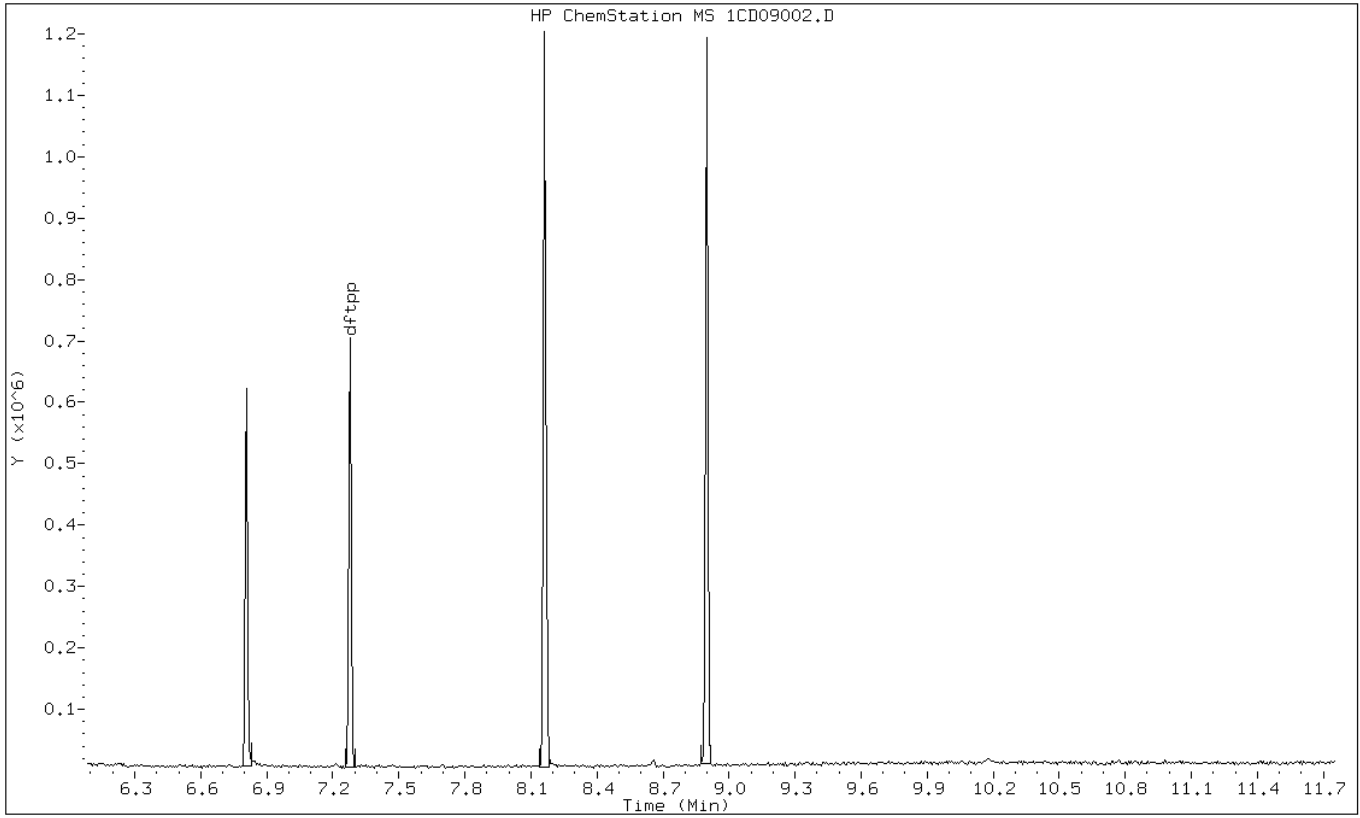
Date: 09-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD09002.D

Date: 09-APR-2013 11:31

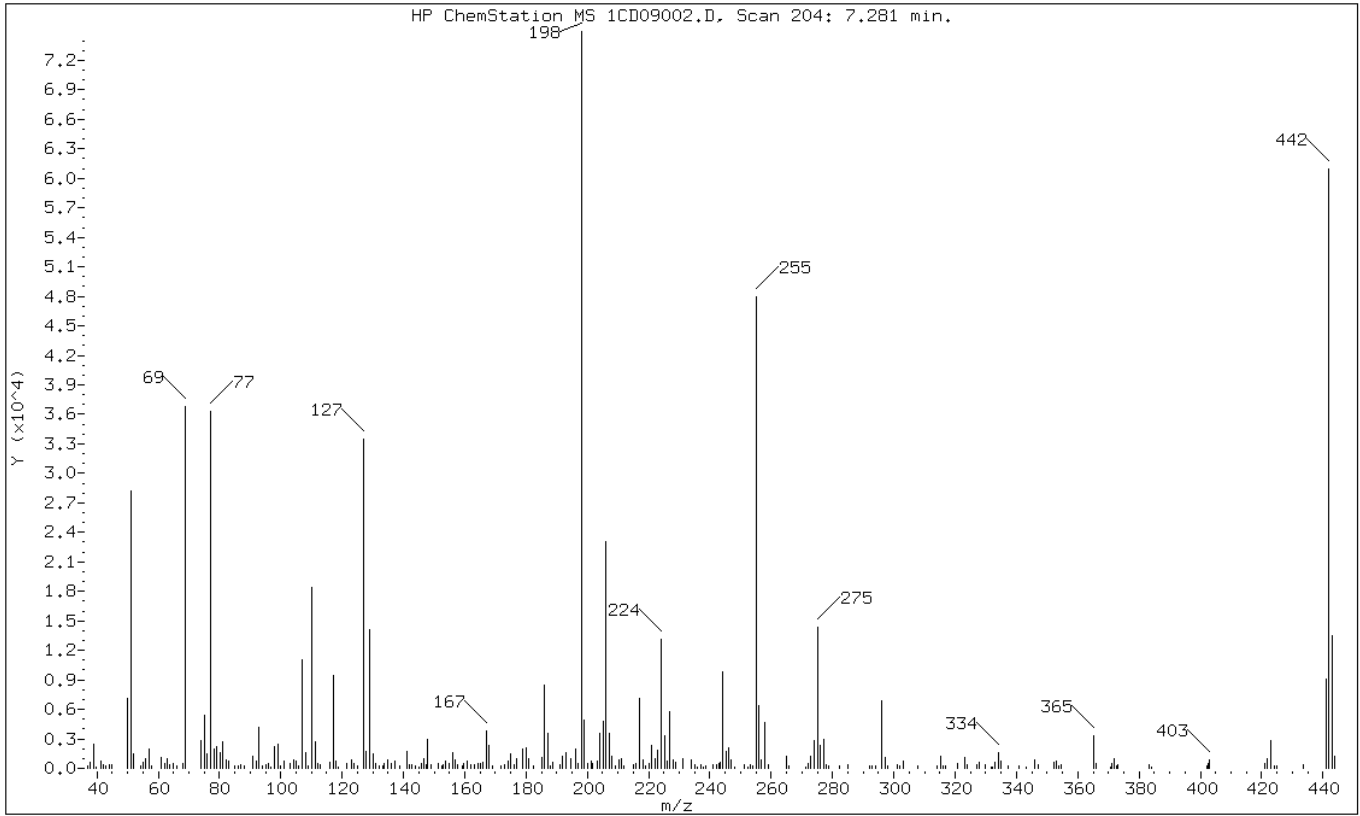
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.71
68	Less than 2.00% of mass 69	0.59 ( 1.19)
69	Mass 69 relative abundance	49.16
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	44.76
197	Less than 2.00% of mass 198	0.65
442	Greater than 50.00% of mass 198	81.27
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 60.00% of mass 198	19.15
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	12.15
443	15.00 - 24.00% of mass 442	17.97 ( 22.11)

Data File: 1CD09002.D

Date: 09-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040913.b\1CD09002.D

Spectrum: HP ChemStation MS 1CD09002.D, Scan 204: 7.281 min.

Location of Maximum: 198.00

Number of points: 256

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	303	121.70	501	197.00	488	277.00	2932
37.90	644	123.00	803	198.00	74928	277.80	317
39.10	2437	123.80	456	198.90	4873	278.90	244
39.90	183	125.10	284	200.00	503	282.10	289
41.20	713	127.10	33536	201.30	734	285.10	385
42.10	366	127.90	1719	201.60	542	292.00	202
42.90	295	129.10	14144	203.10	759	292.90	209
44.00	392	130.10	1532	204.00	3512	294.00	258
45.00	374	130.90	456	205.10	4815	296.00	6866
50.10	7102	132.10	256	206.00	23080	297.10	1131
51.10	28256	133.10	250	207.10	3594	297.80	186
52.10	1481	133.80	480	208.00	1243	301.10	371
54.10	185	134.80	870	209.00	290	301.80	227
55.00	604	136.00	478	210.30	836	302.90	771
56.00	1018	137.10	750	211.10	952	307.70	238
57.10	1912	138.70	279	212.10	250	314.00	209
58.00	210	141.00	1665	215.00	372	315.10	1231
61.00	1106	142.10	403	215.90	508	316.00	255
62.00	481	142.60	351	217.00	7162	316.80	300
63.00	992	143.80	198	218.00	860	320.90	493
63.90	313	145.10	182	218.90	222	323.00	1104
65.00	449	145.90	492	220.30	499	324.10	311
66.10	233	146.80	950	221.10	2282	326.90	359
68.00	439	147.30	406	222.10	1001	327.80	604
69.00	36832	148.00	2884	223.10	1791	330.00	316
74.00	2854	149.00	385	224.00	13135	331.90	155
75.10	5362	151.50	517	225.10	3344	332.20	153
76.10	1470	152.50	251	226.00	688	333.00	609
77.10	36312	153.00	376	227.00	5786	334.10	1631
78.10	2001	153.70	719	228.00	866	334.90	679
79.00	2216	155.10	461	228.80	569	337.20	239
80.10	1539	156.00	1563	231.00	1026	341.00	186
81.10	2665	157.00	913	234.10	806	343.00	154
82.10	881	157.80	307	235.10	413	345.90	816
82.90	715	159.20	240	235.80	162	347.00	406
85.00	303	159.80	459	237.00	417	352.10	610
86.20	286	160.90	719	237.90	152	353.00	746
86.90	318	161.80	321	238.80	302	353.90	244
88.00	215	163.10	332	241.00	381	354.50	346
91.00	1216	164.20	510	242.00	328	365.10	3358

92.10	686	165.00	546	242.90	526	365.80	496
93.00	4154	166.00	574	243.20	576	370.50	169
94.00	185	167.10	3830	244.00	9803	371.20	430
95.20	351	168.00	2374	245.20	1718	371.90	983
96.10	467	168.90	256	246.00	2069	372.70	286
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96.80	171	171.90	304	247.00	822	373.10	335
98.00	2209	173.00	341	248.10	163	383.30	385
99.00	2438	174.10	763	251.10	337	383.90	155
100.00	300	175.00	1496	252.40	163	402.10	290
101.00	754	176.00	389	253.10	334	402.70	487
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102.90	507	177.00	954	253.80	239	403.10	909
104.10	903	178.90	1968	254.10	268	420.90	465
105.00	744	180.00	2029	255.00	47920	421.90	1005
105.90	301	180.90	925	256.00	6320	423.00	2778
107.10	10987	182.30	220	256.80	813	424.10	230
-----							
108.00	1572	185.00	1056	258.00	4623	424.80	259
109.10	194	186.10	8474	258.90	382	433.40	342
110.00	18384	187.10	3502	265.00	1260	441.10	9103
111.10	2683	187.80	275	265.90	256	442.00	60896
112.00	467	188.90	605	271.20	174	443.10	13464
-----							
112.70	361	191.00	386	272.20	439	443.80	1239
115.90	568	192.00	1215	272.90	1213		
117.10	9483	193.00	1616	274.00	2823		
118.00	710	194.80	989	275.00	14347		
118.90	182	196.00	1937	276.00	2307		
-----							



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136104/1-A  
 Matrix: Solid Lab File ID: 1CD05032.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.14(g) Date Analyzed: 04/05/2013 20:55  
 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.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	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	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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\BSMC5973.i\1C040513.b\1CD05032.D  
 Lab Smp Id: mb 660-136104/1-a  
 Inj Date : 05-APR-2013 20:55  
 Operator : SCC  
 Smp Info : mb 660-136104/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 31 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	590353	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.780	(1.000)	446558	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	864942	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	94823	7.44187	491.5372
* 18 Chrysene-d12	240		7.662	7.662	(1.000)	885941	40.0000	
* 23 Perylene-d12	264		8.827	8.827	(1.000)	848008	40.0000	

Data File: 1CD05032.D

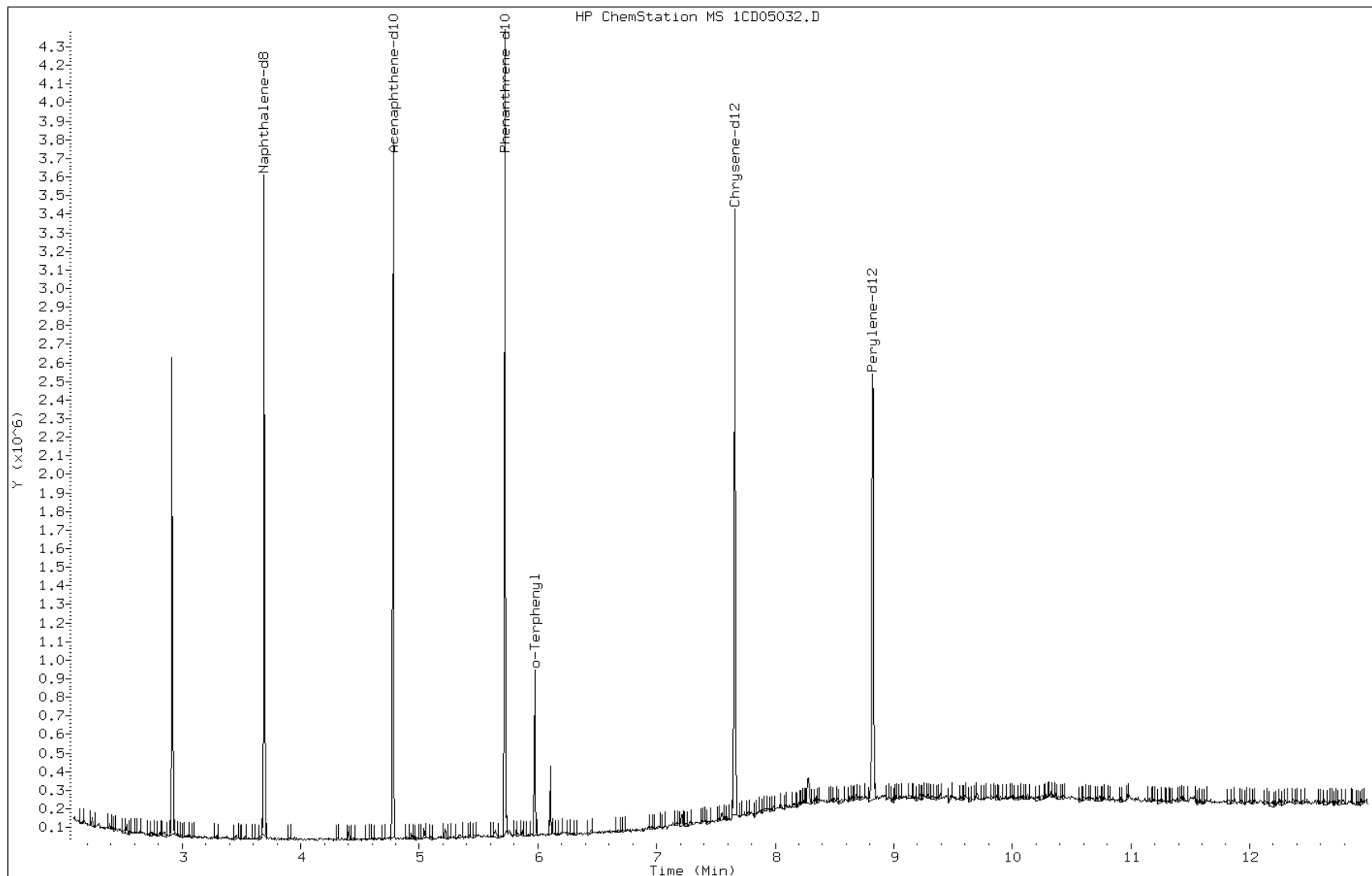
Date: 05-APR-2013 20:55

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136104/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136127/1-A  
 Matrix: Solid Lab File ID: 1CD08005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 15.00(g) Date Analyzed: 04/08/2013 13:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 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	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08005.D  
 Lab Smp Id: MB 660-136127/1-A  
 Inj Date : 08-APR-2013 13:45  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : MB 660-136127/1-A  
 Misc Info : 1.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 5 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	379190	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	267981	40.0000	
* 10 Phenanthrene-d10	188		5.727	5.721	(1.000)	495949	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.043)	70460	9.42943	628.6288
* 18 Chrysene-d12	240		7.662	7.656	(1.000)	592625	40.0000	
* 23 Perylene-d12	264		8.839	8.821	(1.000)	592462	40.0000	

Data File: 1CD08005.D

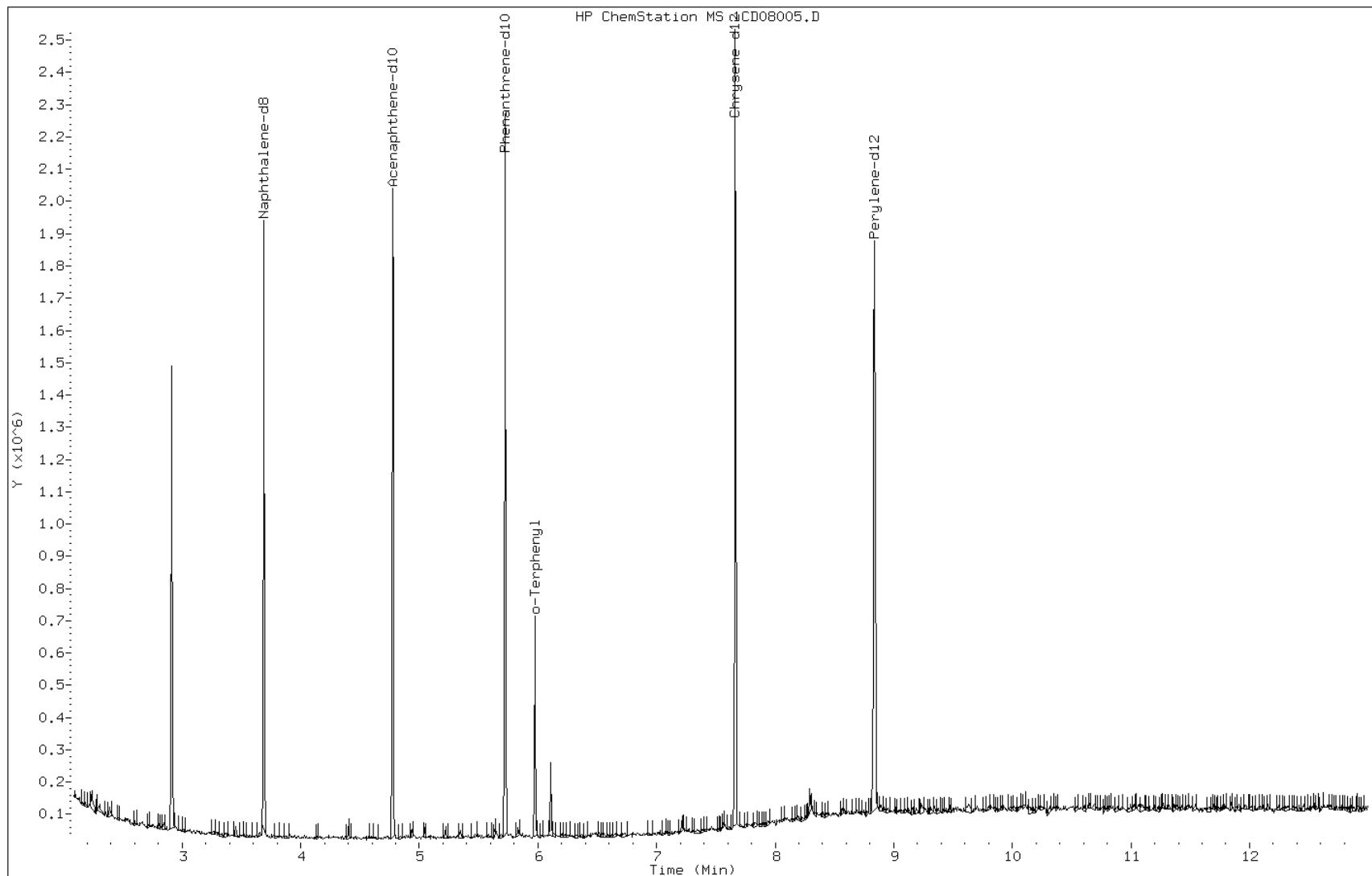
Date: 08-APR-2013 13:45

Client ID:

Instrument: BSMC5973.i

Sample Info: MB 660-136127/1-A

Operator: TP



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136104/2-A  
 Matrix: Solid Lab File ID: 1CD05033.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.25(g) Date Analyzed: 04/05/2013 21:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	484		98	20
208-96-8	Acenaphthylene	476		39	4.9
120-12-7	Anthracene	465		8.3	4.1
56-55-3	Benzo[a]anthracene	525		7.9	3.8
50-32-8	Benzo[a]pyrene	461		10	5.1
205-99-2	Benzo[b]fluoranthene	447		12	6.0
191-24-2	Benzo[g,h,i]perylene	418		20	4.3
207-08-9	Benzo[k]fluoranthene	532		7.9	3.5
218-01-9	Chrysene	492		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	492		20	4.0
206-44-0	Fluoranthene	478		20	3.9
86-73-7	Fluorene	469		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	389		20	7.0
90-12-0	1-Methylnaphthalene	518		39	4.3
91-57-6	2-Methylnaphthalene	480		39	7.0
91-20-3	Naphthalene	461		39	4.3
85-01-8	Phenanthrene	490		7.9	3.8
129-00-0	Pyrene	549		20	3.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05033.D  
 Lab Smp Id: lcs 660-136104/2-a  
 Inj Date : 05-APR-2013 21:13  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-136104/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 32 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	15.250	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	530869	40.0000		
* 6 Acenaphthene-d10	164		4.780	4.780	(1.000)	398228	40.0000		
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	807075	40.0000		
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	86923	7.32375	480.2459	
* 18 Chrysene-d12	240		7.656	7.662	(1.000)	890990	40.0000		
* 23 Perylene-d12	264		8.821	8.827	(1.000)	828383	40.0000		
2 Naphthalene	128		3.704	3.704	(1.003)	95817	7.02715	460.7967	
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	67874	7.31264	479.5172	
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	65943	7.89571	517.7511	
5 Acenaphthylene	152		4.692	4.692	(0.982)	119751	7.26570	476.4394	
7 Acenaphthene	154		4.798	4.798	(1.004)	75392	7.38541	484.2892	
9 Fluorene	166		5.115	5.116	(1.070)	97319	7.15130	468.9374	
11 Phenanthrene	178		5.739	5.739	(1.003)	175805	7.47923	490.4410	
12 Anthracene	178		5.774	5.774	(1.009)	168928	7.08949	464.8844	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	160507	7.86241	515.5676
15 Fluoranthene	202	6.574	6.574	(1.149)	189270	7.29106	478.1026
16 Pyrene	202	6.739	6.739	(0.880)	206571	8.36960	548.8262
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	203120	8.00351	524.8200
19 Chrysene	228	7.680	7.680	(1.003)	190352	7.49733	491.6278
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	159638	6.81658	446.9885
21 Benzo(k)fluoranthene	252	8.503	8.509	(0.964)	183808	8.11497	532.1293
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	155014	7.03058	461.0217
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	124201	5.93074	388.9007(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	145156	7.50339	492.0254
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	136128	6.36894	417.6354

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD05033.D

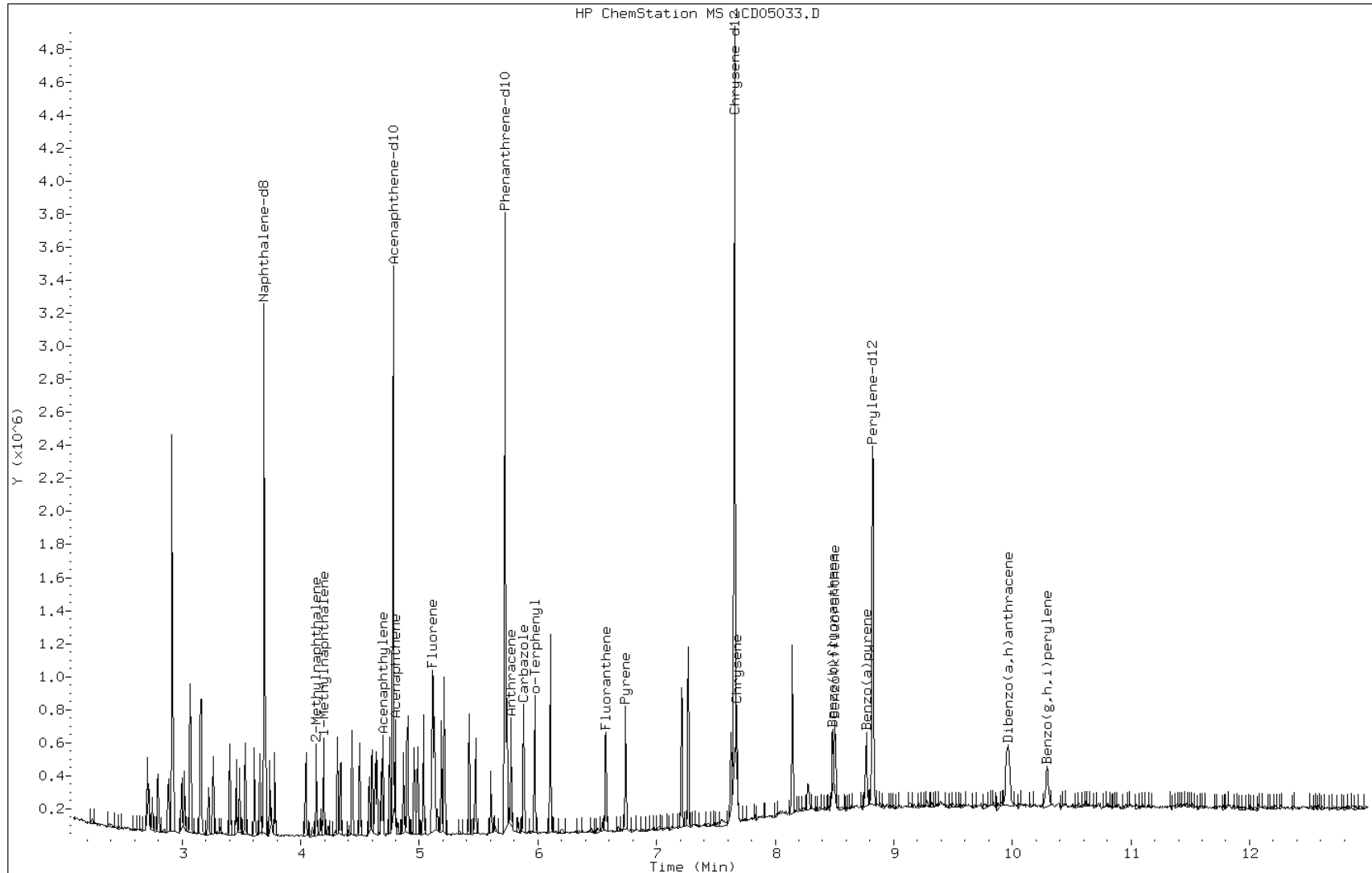
Date: 05-APR-2013 21:13

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136104/2-a

Operator: SCC

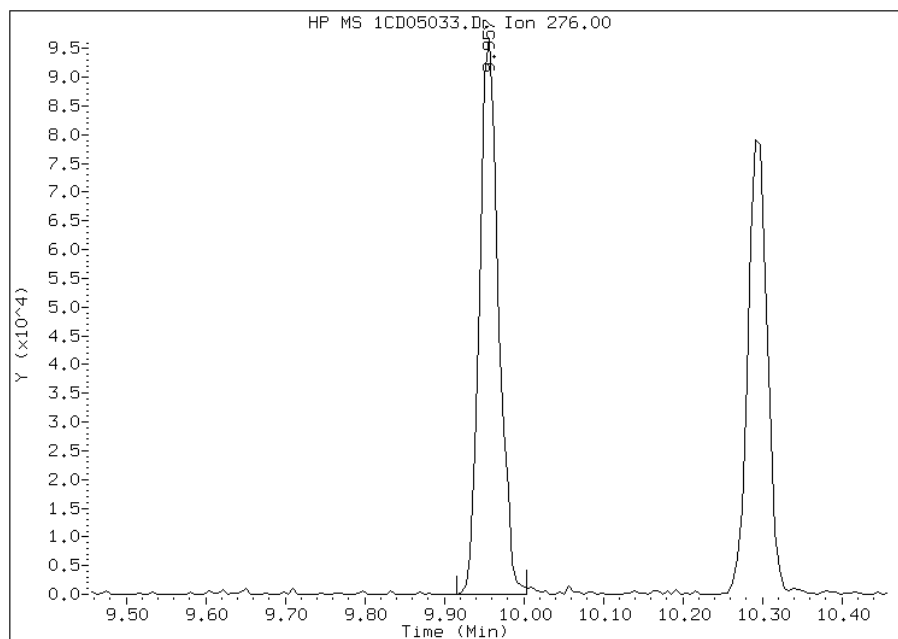


# Manual Integration Report

Data File: 1CD05033.D  
Inj. Date and Time: 05-APR-2013 21:13  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

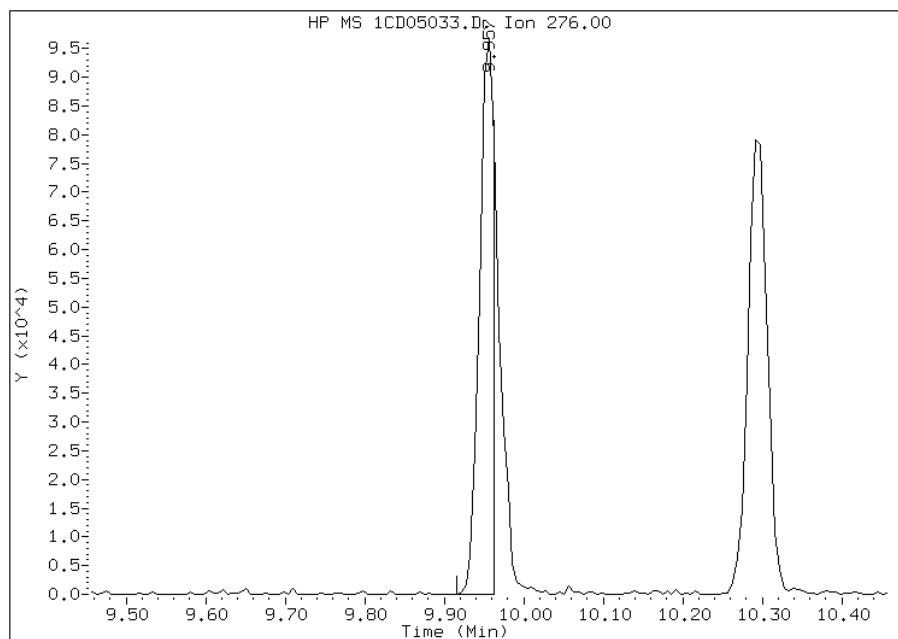
## Processing Integration Results

RT: 9.96  
Response: 160538  
Amount: 8  
Conc: 503



## Manual Integration Results

RT: 9.96  
Response: 124201  
Amount: 6  
Conc: 389



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:39  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136127/2-A  
 Matrix: Solid Lab File ID: 1CD08006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 15.11(g) Date Analyzed: 04/08/2013 14:04  
 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.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	491		99	20
208-96-8	Acenaphthylene	536		40	5.0
120-12-7	Anthracene	522		8.3	4.2
56-55-3	Benzo[a]anthracene	520		7.9	3.9
50-32-8	Benzo[a]pyrene	470		10	5.2
205-99-2	Benzo[b]fluoranthene	532		12	6.1
191-24-2	Benzo[g,h,i]perylene	514		20	4.4
207-08-9	Benzo[k]fluoranthene	533		7.9	3.6
218-01-9	Chrysene	502		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	593		20	4.1
206-44-0	Fluoranthene	512		20	4.0
86-73-7	Fluorene	537		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	509		20	7.0
90-12-0	1-Methylnaphthalene	579		40	4.4
91-57-6	2-Methylnaphthalene	486		40	7.0
91-20-3	Naphthalene	499		40	4.4
85-01-8	Phenanthrene	525		7.9	3.9
129-00-0	Pyrene	515		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08006.D  
 Lab Smp Id: LCS 660-136127/2-A  
 Inj Date : 08-APR-2013 14:04  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : LCS 660-136127/2-A  
 Misc Info : 1.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 6 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	384820	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	277749	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	533413	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.974	(1.043)	61452	7.78349	515.1216
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	671425	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	658877	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	74499	7.53732	498.8297
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	49451	7.34980	486.4195
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	52993	8.75327	579.3033
5 Acenaphthylene	152		4.686	4.686	(0.982)	93119	8.10058	536.1071
7 Acenaphthene	154		4.792	4.798	(1.004)	52770	7.41167	490.5139
9 Fluorene	166		5.115	5.115	(1.071)	76955	8.10780	536.5853
11 Phenanthrene	178		5.733	5.739	(1.002)	123243	7.93301	525.0172
12 Anthracene	178		5.768	5.768	(1.008)	124228	7.88829	522.0577

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.874	5.880	(1.027)	118195	8.76014	579.7576
15 Fluoranthene	202	6.568	6.568	(1.148)	132646	7.73132	511.6690
16 Pyrene	202	6.733	6.739	(0.879)	144804	7.78558	515.2603
17 Benzo(a)anthracene	228	7.645	7.651	(0.998)	150266	7.85961	520.1592
19 Chrysene	228	7.674	7.674	(1.002)	145147	7.58634	502.0741
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	149621	8.03248	531.5999
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	145093	8.05371	533.0052
22 Benzo(a)pyrene	252	8.762	8.768	(0.993)	124649	7.10781	470.4045
24 Indeno(1,2,3-cd)pyrene	276	9.950	9.956	(1.128)	128046	7.68734	508.7587(M)
25 Dibenzo(a,h)anthracene	278	9.962	9.968	(1.129)	137832	8.95776	592.8363
26 Benzo(g,h,i)perylene	276	10.286	10.297	(1.166)	132107	7.77092	514.2897

QC Flag Legend

M - Compound response manually integrated.

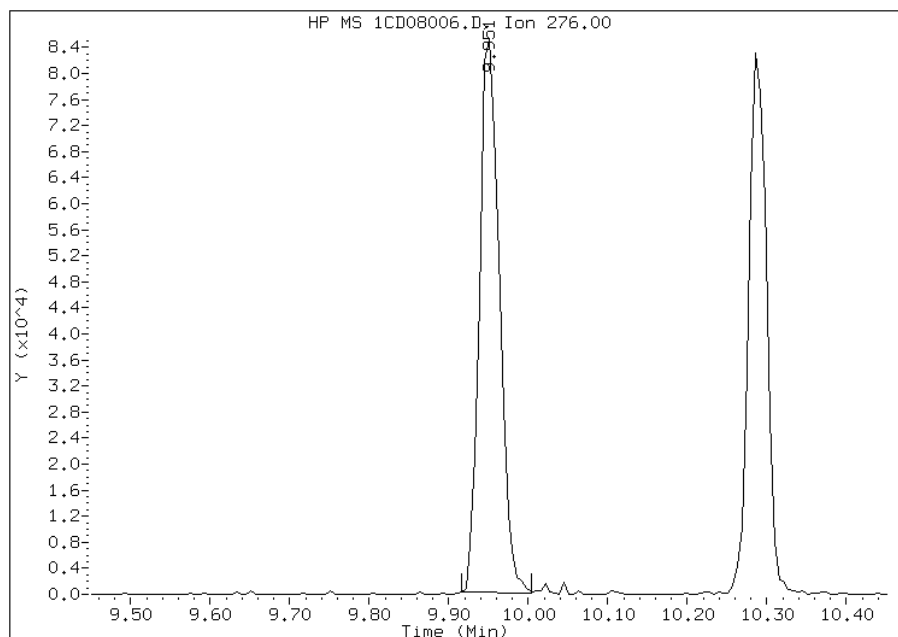


# Manual Integration Report

Data File: 1CD08006.D  
Inj. Date and Time: 08-APR-2013 14:04  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

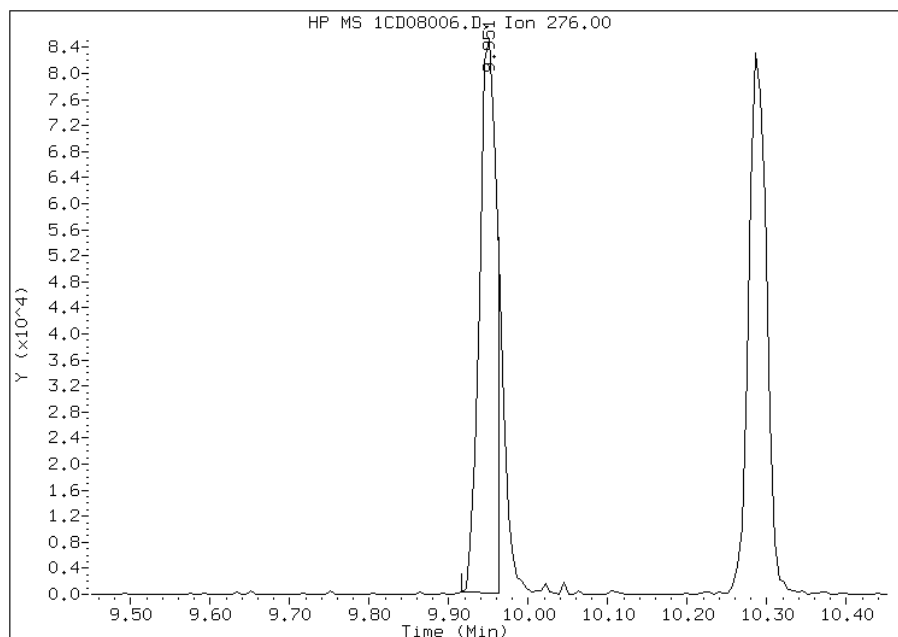
## Processing Integration Results

RT: 9.95  
Response: 146616  
Amount: 9  
Conc: 583



## Manual Integration Results

RT: 9.95  
Response: 128046  
Amount: 8  
Conc: 509



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:02  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88811-A-22-B MS  
 Matrix: Solid Lab File ID: 1CD08008.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.95(g) Date Analyzed: 04/08/2013 14:40  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	954		160	32
208-96-8	Acenaphthylene	864		64	8.0
120-12-7	Anthracene	1320		13	6.7
56-55-3	Benzo[a]anthracene	2210		13	6.2
50-32-8	Benzo[a]pyrene	1920		17	8.3
191-24-2	Benzo[g,h,i]perylene	1420		32	7.0
207-08-9	Benzo[k]fluoranthene	1520		13	5.8
218-01-9	Chrysene	2050		14	7.2
53-70-3	Dibenz(a,h)anthracene	945		32	6.6
86-73-7	Fluorene	1030		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	1530		32	11
90-12-0	1-Methylnaphthalene	1090		64	7.0
91-57-6	2-Methylnaphthalene	1190		64	11
91-20-3	Naphthalene	1190		64	7.0
85-01-8	Phenanthrene	3360		13	6.2

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08008.D  
 Lab Smp Id: 680-88811-A-22-B MS  
 Inj Date : 08-APR-2013 14:40  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-22-B MS  
 Misc Info : 1.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 8 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	452854	40.0000	
* 6 Acenaphthene-d10	164		4.774	4.774	(1.000)	340263	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	631160	40.0000	
\$ 14 o-Terphenyl	230		5.968	5.974	(1.043)	69285	7.45074	498.3773
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	764686	40.0000	
* 23 Perylene-d12	264		8.821	8.821	(1.000)	716189	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	130005	11.1770	747.6264
3 2-Methylnaphthalene	142		4.127	4.127	(1.118)	88644	11.1956	748.8726
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	72897	10.2320	684.4155
5 Acenaphthylene	152		4.686	4.686	(0.982)	114095	8.10181	541.9271
7 Acenaphthene	154		4.798	4.798	(1.005)	78010	8.94369	598.2402
9 Fluorene	166		5.115	5.115	(1.071)	112047	9.63617	644.5598
11 Phenanthrene	178		5.739	5.739	(1.003)	579527	31.5263	2108.7852(R)
12 Anthracene	178		5.768	5.768	(1.008)	229913	12.3382	825.2964

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	183173	11.4735	767.4608
15 Fluoranthene	202	6.568	6.568	(1.148)	801826	39.4970	2641.9375(R)
16 Pyrene	202	6.739	6.739	(0.880)	699842	33.0389	2209.9570(R)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	456859	20.7551	1388.2987(R)
19 Chrysene	228	7.674	7.674	(1.002)	419259	19.2407	1287.0037(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	525865	25.9721	1737.2671(R)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	278404	14.2168	950.9560(R)
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	343633	18.0268	1205.8063(R)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	260115	14.3665	960.9730(RM)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	148131	8.85670	592.4213
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	246067	13.3161	890.7081(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD08008.D

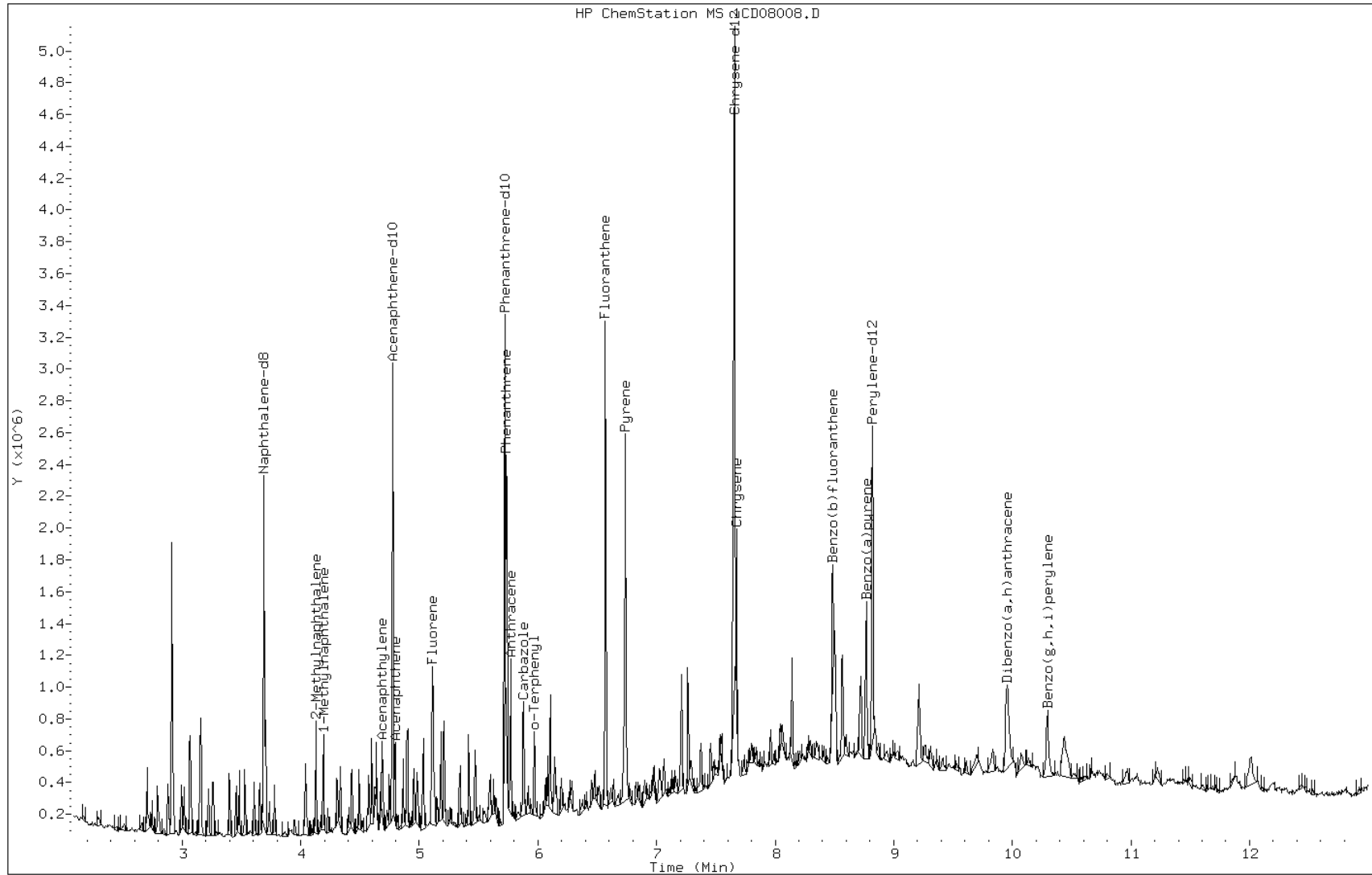
Date: 08-APR-2013 14:40

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-B MS

Operator: TP

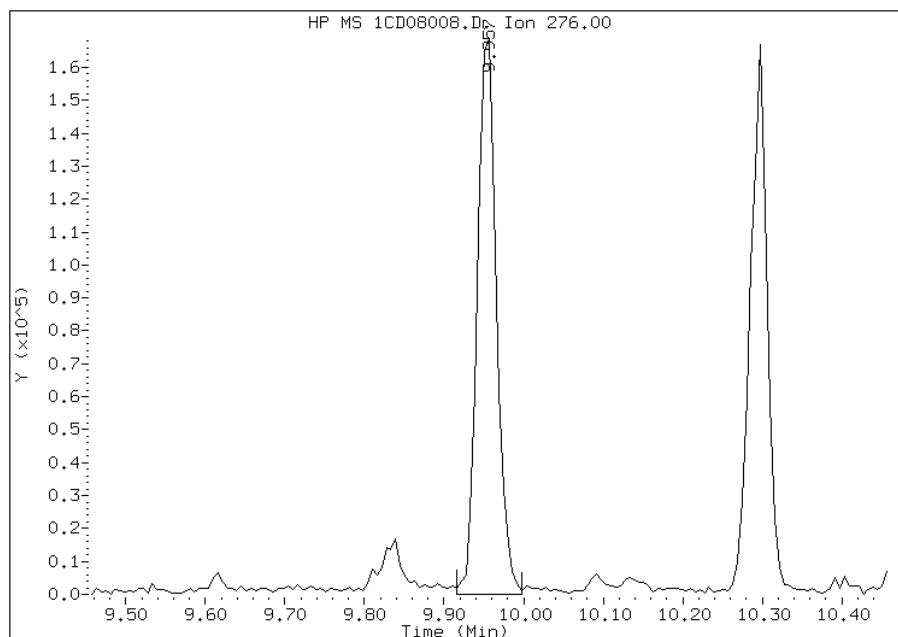


# Manual Integration Report

Data File: 1CD08008.D  
Inj. Date and Time: 08-APR-2013 14:40  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

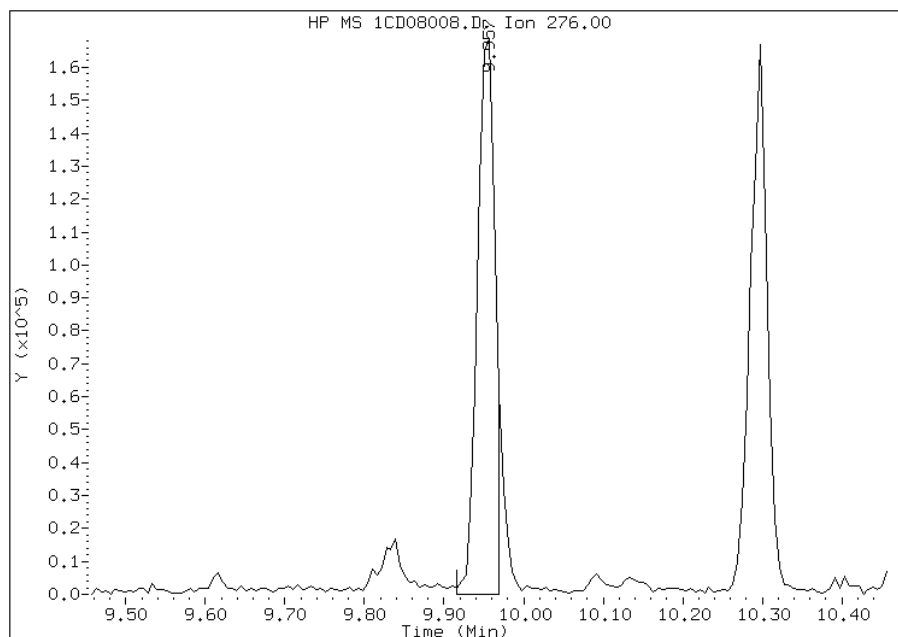
## Processing Integration Results

RT: 9.96  
Response: 280779  
Amount: 16  
Conc: 1037



## Manual Integration Results

RT: 9.96  
Response: 260115  
Amount: 14  
Conc: 961



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:04  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88811-A-22-B MS DL  
 Matrix: Solid Lab File ID: 1AD09014.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.95(g) Date Analyzed: 04/09/2013 15:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136269 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	2840		78	39
206-44-0	Fluoranthene	3780		130	26
129-00-0	Pyrene	3530		130	24

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09014.D  
 Lab Smp Id: 680-88811-A-22-B MS  
 Inj Date : 09-APR-2013 15:50  
 Operator : SCC  
 Smp Info : 680-88811-A-22-B MS  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD  
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D  
 Als bottle: 14 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.587	2.591	(1.000)	1563317	40.0000	
* 6 Acenaphthene-d10	164		3.623	3.622	(1.000)	838392	40.0000	
* 10 Phenanthrene-d10	188		4.574	4.573	(1.000)	1463709	40.0000	
\$ 14 o-Terphenyl	230		4.878	4.877	(1.067)	53058	1.62427	434.5882
* 18 Chrysene-d12	240		6.593	6.597	(1.000)	1353057	40.0000	
* 23 Perylene-d12	264		7.677	7.676	(1.000)	1321286	40.0000	
2 Naphthalene	128		2.598	2.602	(1.004)	149949	2.65470	710.2870
3 2-Methylnaphthalene	141		3.004	3.008	(1.161)	84486	2.55366	683.2543
4 1-Methylnaphthalene	142		3.062	3.062	(1.184)	89290	2.31842	620.3121
5 Acenaphthylene	152		3.532	3.532	(0.975)	123449	2.08063	556.6897
7 Acenaphthene	154		3.639	3.638	(1.004)	75965	2.08191	557.0339
9 Fluorene	166		3.954	3.953	(1.091)	98283	2.21550	592.7764
11 Phenanthrene	178		4.590	4.589	(1.004)	391410	7.20812	1928.5940(R)
12 Anthracene	178		4.622	4.626	(1.011)	175945	2.86873	767.5534

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.750	4.755	(1.039)	135550	2.53465	678.1659
15 Fluoranthene	202	5.455	5.454	(1.193)	521745	8.86193	2371.0851(R)
16 Pyrene	202	5.621	5.620	(0.853)	430873	8.26392	2211.0820(R)
17 Benzo(a)anthracene	228	6.582	6.581	(0.998)	242127	5.36464	1435.3562(R)
19 Chrysene	228	6.609	6.613	(1.002)	233714	5.07725	1358.4603(R)
20 Benzo(b)fluoranthene	252	7.399	7.404	(0.964)	266673	6.65622	1780.9296(R)
21 Benzo(k)fluoranthene	252	7.421	7.425	(0.967)	191208	4.29712	1149.7308(R)
22 Benzo(a)pyrene	252	7.624	7.628	(0.993)	203438	4.56681	1221.8878(R)
24 Indeno(1,2,3-cd)pyrene	276	8.441	8.451	(1.099)	167602	4.79328	1282.4819(RM)
25 Dibenzo(a,h)anthracene	278	8.468	8.477	(1.103)	97140	2.90803	778.0688
26 Benzo(g,h,i)perylene	276	8.660	8.670	(1.128)	176891	4.91539	1315.1548(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.



Data File: 1AD09014.D

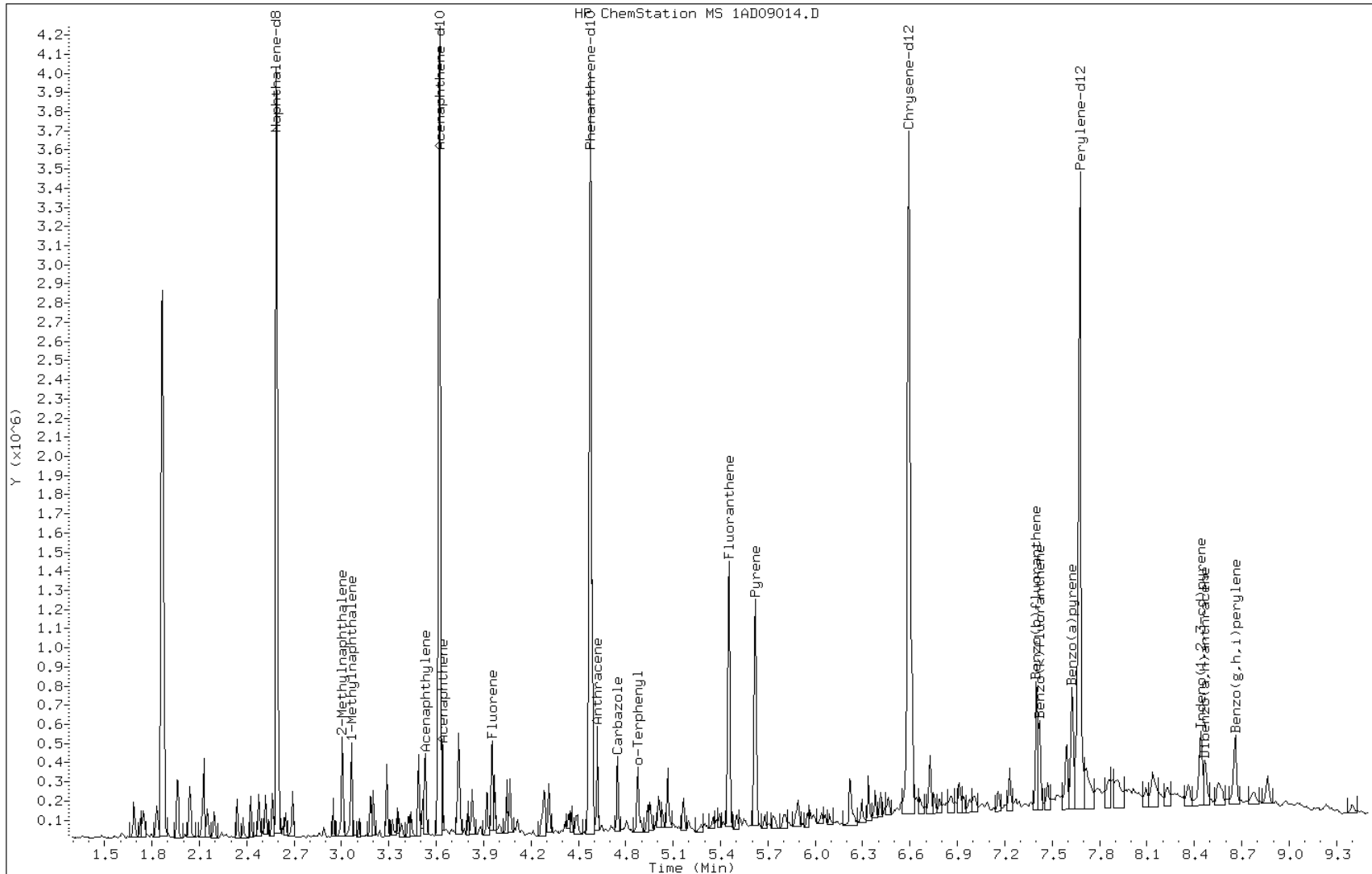
Date: 09-APR-2013 15:50

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-B MS

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509II-CS MS Lab Sample ID: 680-88811-1 MS  
 Matrix: Solid Lab File ID: 1CD05039.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:25  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/05/2013 23:04  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 40.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	792		670	130
208-96-8	Acenaphthylene	814		270	34
120-12-7	Anthracene	911		56	28
56-55-3	Benzo[a]anthracene	1250		54	26
50-32-8	Benzo[a]pyrene	1020		70	35
205-99-2	Benzo[b]fluoranthene	1200		82	41
191-24-2	Benzo[g,h,i]perylene	964		130	30
207-08-9	Benzo[k]fluoranthene	1150		54	24
218-01-9	Chrysene	1170		60	30
53-70-3	Dibenz(a,h)anthracene	789		130	27
206-44-0	Fluoranthene	1380		130	27
86-73-7	Fluorene	824		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	884		130	48
90-12-0	1-Methylnaphthalene	966		270	30
91-57-6	2-Methylnaphthalene	998		270	48
91-20-3	Naphthalene	1040		270	30
85-01-8	Phenanthrene	1170		54	26
129-00-0	Pyrene	1380		130	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05039.D  
 Lab Smp Id: 680-88811-a-1-b ms  
 Inj Date : 05-APR-2013 23:04  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-a-1-b ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 38 QC Sample: MS  
 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	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136			3.692	3.692	(1.000)	535106	40.0000	
* 6 Acenaphthene-d10	164			4.780	4.780	(1.000)	419924	40.0000	
* 10 Phenanthrene-d10	188			5.721	5.721	(1.000)	763930	40.0000	
\$ 14 o-Terphenyl	230			5.974	5.974	(1.044)	19498	2.28908	605.1754
* 18 Chrysene-d12	240			7.657	7.662	(1.000)	852808	40.0000	
* 23 Perylene-d12	264			8.821	8.827	(1.000)	826433	40.0000	
2 Naphthalene	128			3.704	3.704	(1.003)	32047	2.33169	616.4426
3 2-Methylnaphthalene	142			4.133	4.133	(1.119)	20879	2.23166	589.9958
4 1-Methylnaphthalene	142			4.192	4.192	(1.135)	18199	2.16181	571.5291
5 Acenaphthylene	152			4.692	4.692	(0.982)	31630	1.81995	481.1492
7 Acenaphthene	154			4.798	4.798	(1.004)	19079	1.77242	468.5837
9 Fluorene	166			5.116	5.116	(1.070)	26455	1.84355	487.3905
11 Phenanthrene	178			5.739	5.739	(1.003)	58006	2.60711	689.2547
12 Anthracene	178			5.769	5.774	(1.008)	45967	2.03807	538.8163

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.880	5.880	(1.028)	34672	1.79432	474.3750
15 Fluoranthene	202	6.568	6.574	(1.148)	75848	3.08684	816.0836
16 Pyrene	202	6.739	6.739	(0.880)	73160	3.09692	818.7506
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	65727	2.79556	739.0769
19 Chrysene	228	7.674	7.680	(1.002)	63426	2.60998	690.0155
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	62718	2.68439	709.6869
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	57960	2.56492	678.1028
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	50206	2.28244	603.4212
24 Indeno(1,2,3-cd)pyrene	276	9.951	9.962	(1.128)	41297	1.97663	522.5725(M)
25 Dibenzo(a,h)anthracene	278	9.974	9.980	(1.131)	34047	1.76411	466.3863
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.167)	45973	2.15599	569.9898

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD05039.D

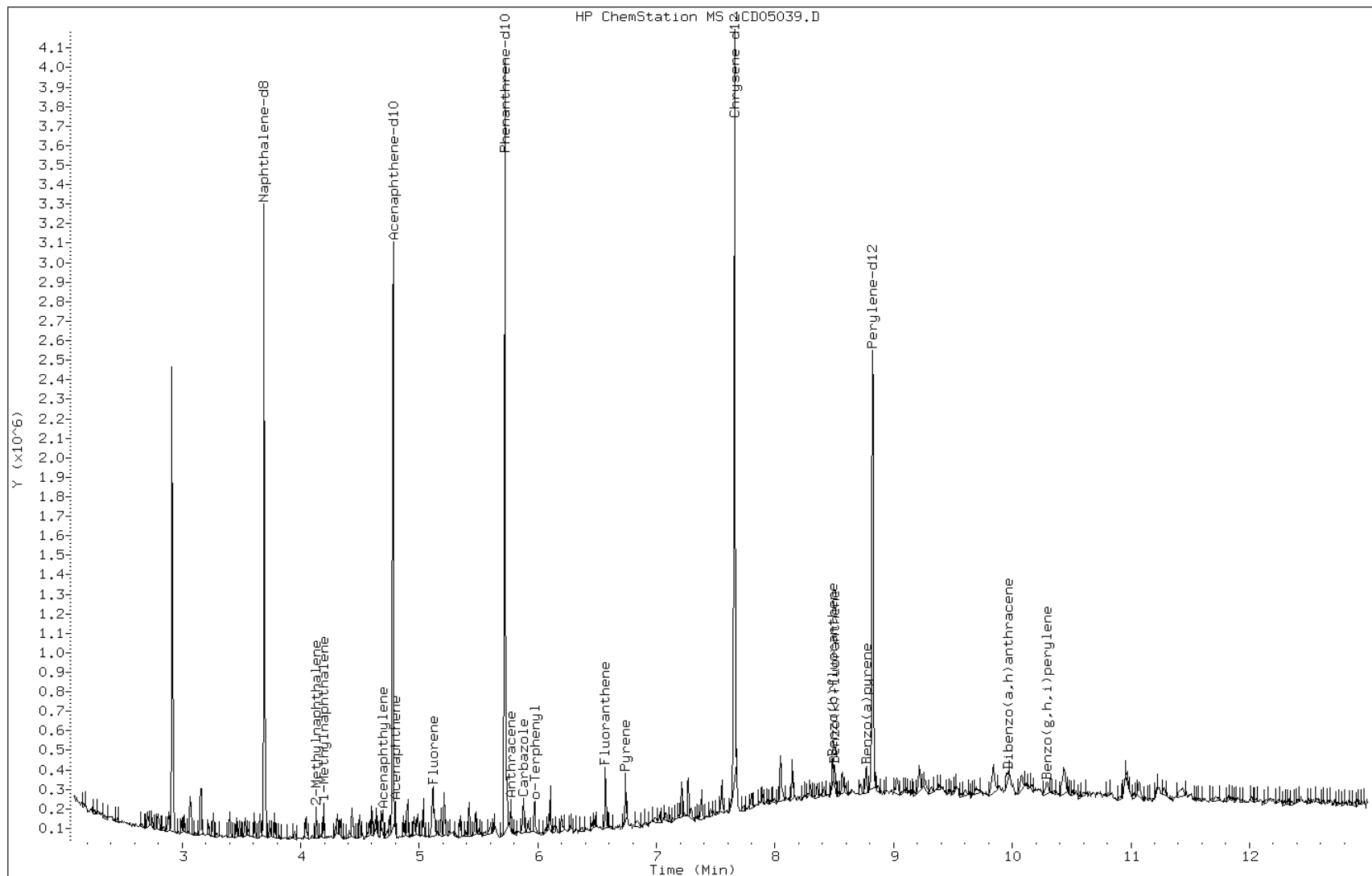
Date: 05-APR-2013 23:04

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-b ms

Operator: SCC

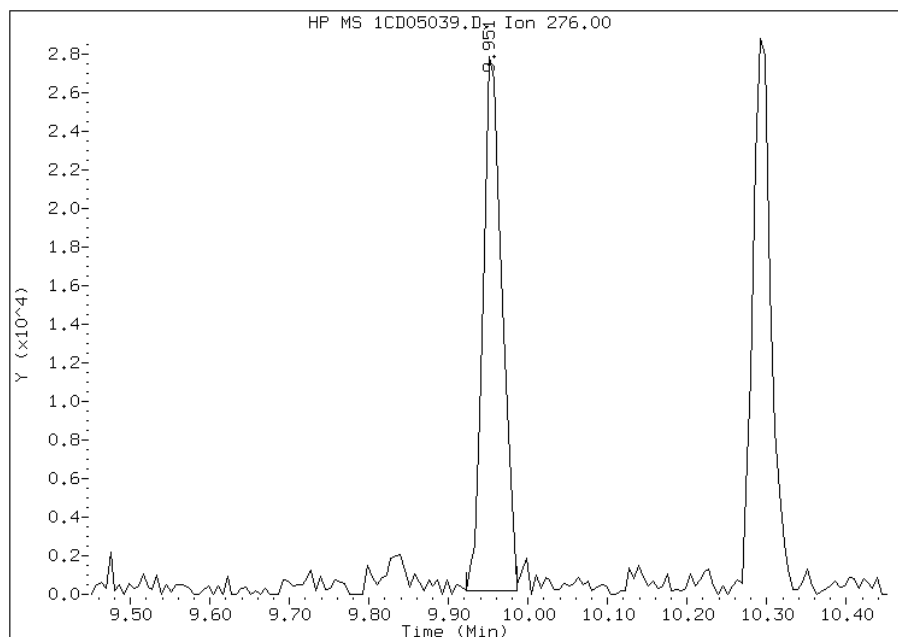


# Manual Integration Report

Data File: 1CD05039.D  
Inj. Date and Time: 05-APR-2013 23:04  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

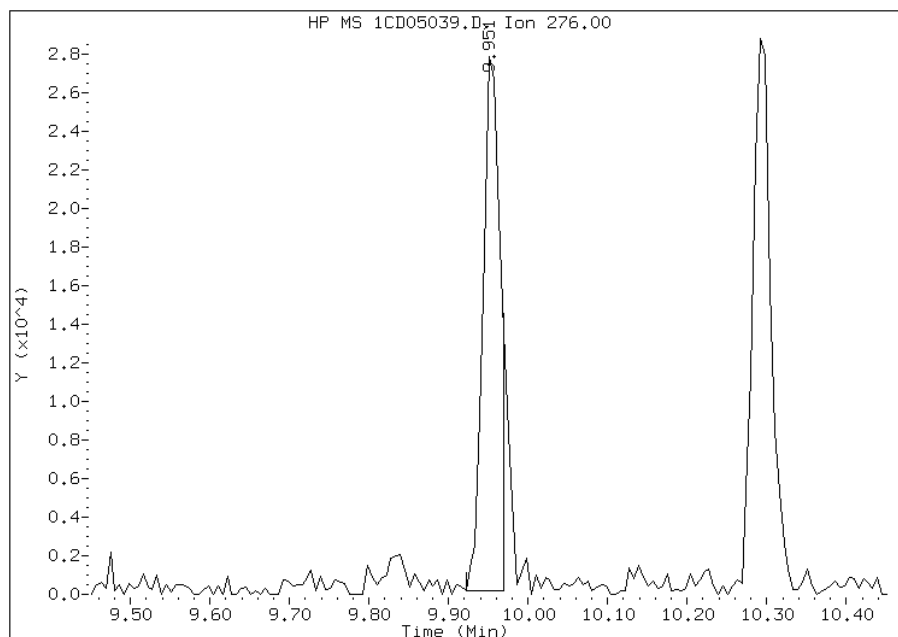
## Processing Integration Results

RT: 9.95  
Response: 45899  
Amount: 2  
Conc: 581



## Manual Integration Results

RT: 9.95  
Response: 41297  
Amount: 2  
Conc: 523



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:46  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88811-A-22-C MSD  
 Matrix: Solid Lab File ID: 1CD08009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.95(g) Date Analyzed: 04/08/2013 14:59  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136271 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	786		160	32
208-96-8	Acenaphthylene	755		64	8.0
120-12-7	Anthracene	1090		13	6.7
56-55-3	Benzo[a]anthracene	1890		13	6.2
50-32-8	Benzo[a]pyrene	1620		17	8.3
191-24-2	Benzo[g,h,i]perylene	1240		32	7.0
207-08-9	Benzo[k]fluoranthene	1310		13	5.8
218-01-9	Chrysene	1840		14	7.2
53-70-3	Dibenz(a,h)anthracene	941		32	6.6
86-73-7	Fluorene	827		32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	1340		32	11
90-12-0	1-Methylnaphthalene	829		64	7.0
91-57-6	2-Methylnaphthalene	779		64	11
91-20-3	Naphthalene	785		64	7.0
85-01-8	Phenanthrene	2480		13	6.2

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\1CD08009.D  
 Lab Smp Id: 680-88811-A-22-C MS  
 Inj Date : 08-APR-2013 14:59  
 Operator : TP Inst ID: BSMC5973.i  
 Smp Info : 680-88811-A-22-C MSD  
 Misc Info : 1.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040813.b\a-bFASTPAHi-m.m  
 Meth Date : 08-Apr-2013 13:29 perrint Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 9 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	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				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	492885	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.774	(1.000)	341978	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	638073	40.0000	
\$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	69017	7.35215	491.7823
* 18 Chrysene-d12	240	7.656	7.656	(1.000)	754689	40.0000	
* 23 Perylene-d12	264	8.821	8.821	(1.000)	709916	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	93097	7.35384	491.8955
3 2-Methylnaphthalene	142	4.127	4.127	(1.118)	62905	7.29958	488.2659
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	60257	7.77090	519.7928
5 Acenaphthylene	152	4.686	4.686	(0.982)	100143	7.07543	473.2727
7 Acenaphthene	154	4.792	4.798	(1.004)	64587	7.36764	492.8184
9 Fluorene	166	5.115	5.115	(1.071)	90631	7.75528	518.7479
11 Phenanthrene	178	5.733	5.739	(1.002)	432377	23.2665	1556.2894(R)
12 Anthracene	178	5.768	5.768	(1.008)	192941	10.2419	685.0780



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	158703	9.83309	657.7320
15 Fluoranthene	202	6.568	6.568	(1.148)	606014	29.5281	1975.1230(R)
16 Pyrene	202	6.739	6.739	(0.880)	530840	25.3924	1698.4884(R)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	385176	17.7501	1187.2959(R)
19 Chrysene	228	7.674	7.674	(1.002)	370435	17.2253	1152.1911(R)
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.962)	433182	21.5836	1443.7215(R)
21 Benzo(k)fluoranthene	252	8.503	8.503	(0.964)	238342	12.2786	821.3083
22 Benzo(a)pyrene	252	8.768	8.768	(0.994)	287225	15.2008	1016.7768(R)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.129)	225256	12.5512	839.5428(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.968	(1.130)	146300	8.82452	590.2686
26 Benzo(g,h,i)perylene	276	10.297	10.297	(1.167)	213477	11.6545	779.5676

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD08009.D

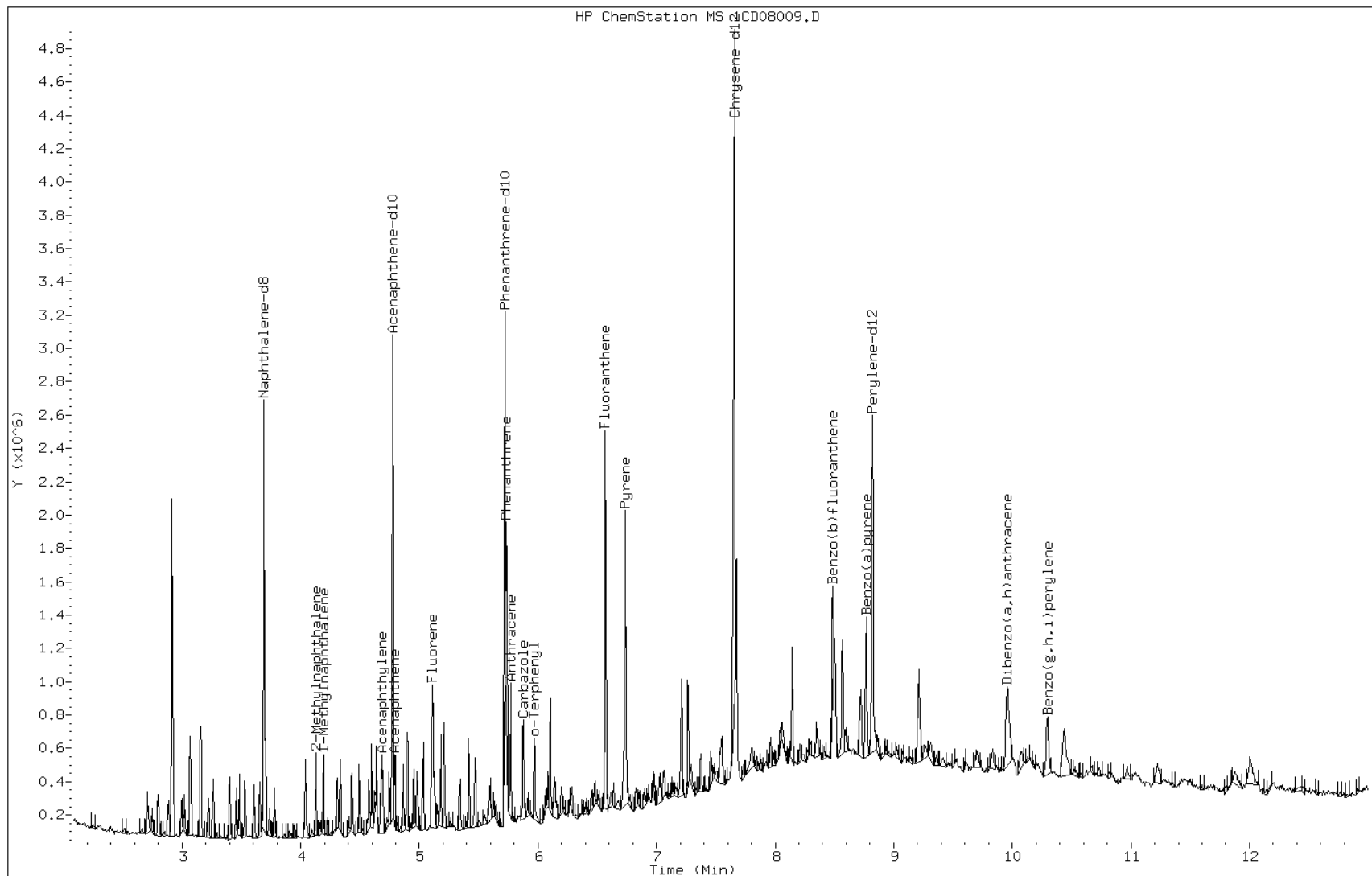
Date: 08-APR-2013 14:59

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88811-A-22-C MSD

Operator: TP

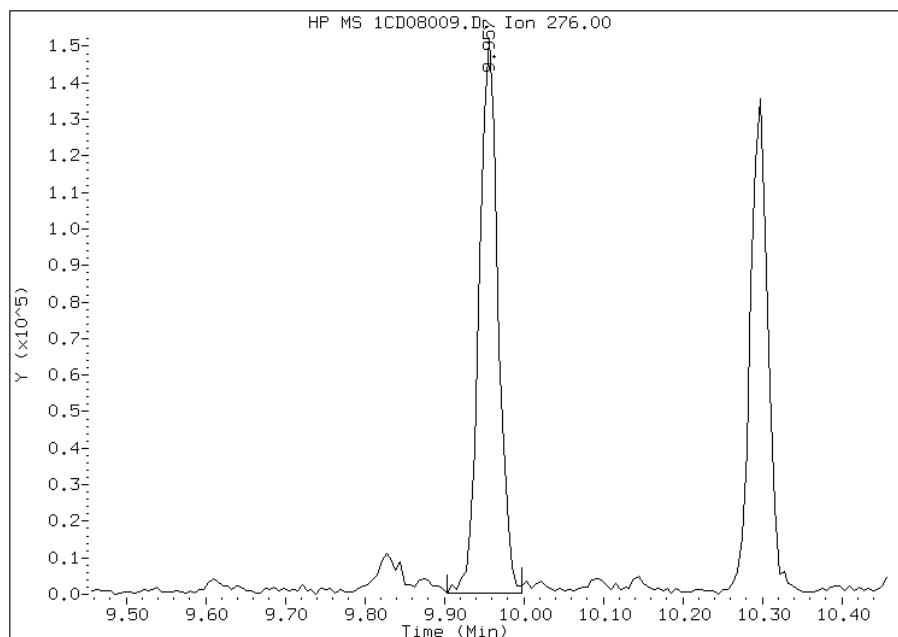


# Manual Integration Report

Data File: 1CD08009.D  
Inj. Date and Time: 08-APR-2013 14:59  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

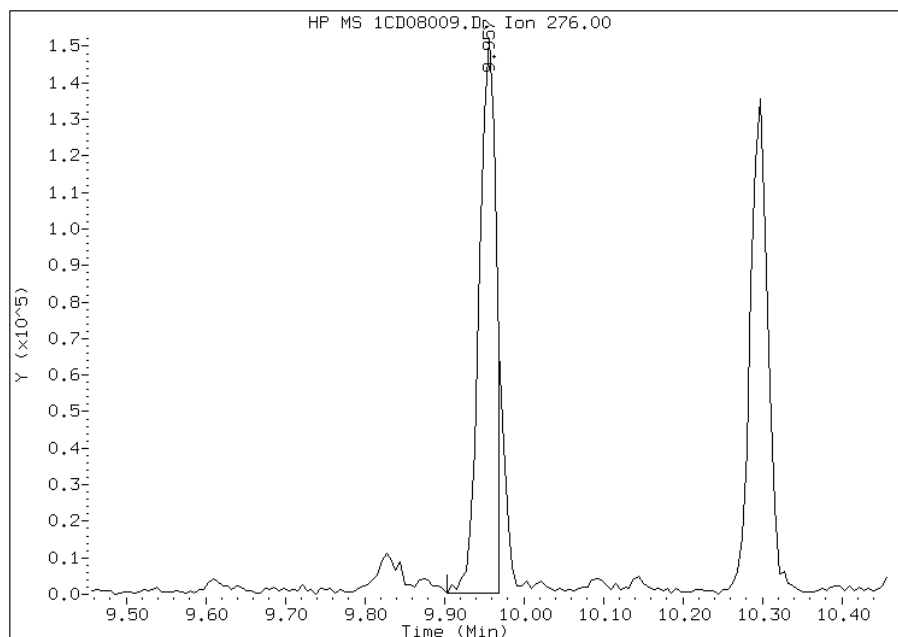
## Processing Integration Results

RT: 9.96  
Response: 250209  
Amount: 14  
Conc: 933



## Manual Integration Results

RT: 9.96  
Response: 225256  
Amount: 13  
Conc: 840



Manually Integrated By: perrint  
Modification Date: 09-Apr-2013 14:04  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88811-A-22-C MSD DL  
 Matrix: Solid Lab File ID: 1AD09015.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/04/2013 13:28  
 Sample wt/vol: 14.95(g) Date Analyzed: 04/09/2013 16:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136269 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	2510		78	39
206-44-0	Fluoranthene	2770		130	26
129-00-0	Pyrene	2820		130	24

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\1AD09015.D  
 Lab Smp Id: 680-88811-A-22-C MS  
 Inj Date : 09-APR-2013 16:05  
 Operator : SCC  
 Smp Info : 680-88811-A-22-C MSD  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A040913\_IC.b\a-bFASTPAHi-m.m  
 Meth Date : 09-Apr-2013 14:20 cantins Quant Type: ISTD  
 Cal Date : 09-APR-2013 12:03 Cal File: 1AD09009.D  
 Als bottle: 15 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.589	2.591	(1.000)	1722885	40.0000	
* 6 Acenaphthene-d10	164		3.620	3.622	(1.000)	941394	40.0000	
* 10 Phenanthrene-d10	188		4.576	4.573	(1.000)	1578292	40.0000	
\$ 14 o-Terphenyl	230		4.875	4.877	(1.065)	53189	1.51435	405.1763
* 18 Chrysene-d12	240		6.595	6.597	(1.000)	1441092	40.0000	
* 23 Perylene-d12	264		7.674	7.676	(1.000)	1423613	40.0000	
2 Naphthalene	128		2.600	2.602	(1.004)	110095	1.81954	486.8322
3 2-Methylnaphthalene	141		3.006	3.008	(1.161)	62560	1.73793	464.9992
4 1-Methylnaphthalene	142		3.064	3.062	(1.184)	73159	1.75327	469.1020
5 Acenaphthylene	152		3.529	3.532	(0.975)	112715	1.75670	470.0188
7 Acenaphthene	154		3.636	3.638	(1.004)	70635	1.78075	476.4559
9 Fluorene	166		3.951	3.953	(1.091)	88787	1.81738	486.2560
11 Phenanthrene	178		4.587	4.589	(1.002)	311062	5.07335	1357.4173(R)
12 Anthracene	178		4.624	4.626	(1.011)	152054	2.31684	619.8903

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.752	4.755	(1.039)	127034	2.19545	587.4102
15 Fluoranthene	202	5.452	5.454	(1.191)	425936	6.49563	1737.9608(R)
16 Pyrene	202	5.617	5.620	(0.852)	367201	6.61249	1769.2280(R)
17 Benzo(a)anthracene	228	6.584	6.581	(0.998)	215162	4.47597	1197.5852(R)
19 Chrysene	228	6.611	6.613	(1.002)	203959	4.16017	1113.0880(R)
20 Benzo(b)fluoranthene	252	7.401	7.404	(0.965)	254251	5.89002	1575.9240(R)
21 Benzo(k)fluoranthene	252	7.417	7.425	(0.967)	152629	3.18356	851.7891
22 Benzo(a)pyrene	252	7.626	7.628	(0.994)	179750	3.57885	957.5505(R)
24 Indeno(1,2,3-cd)pyrene	276	8.437	8.451	(1.100)	152992	4.12208	1102.8984(R)
25 Dibenzo(a,h)anthracene	278	8.469	8.477	(1.104)	98248	2.72979	730.3794
26 Benzo(g,h,i)perylene	276	8.656	8.670	(1.128)	164953	4.25420	1138.2462(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 1AD09015.D

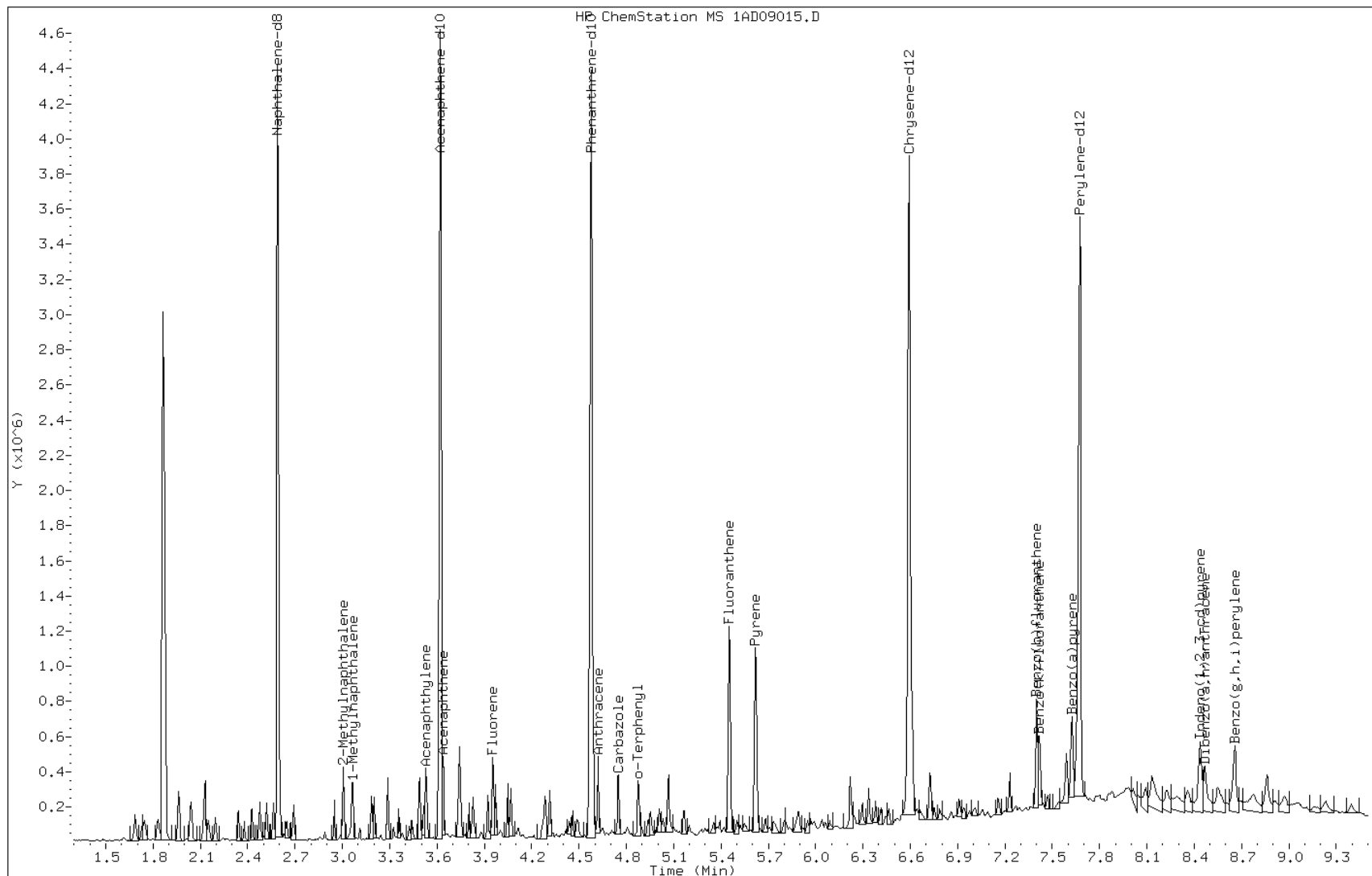
Date: 09-APR-2013 16:05

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-88811-A-22-C MSD

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1  
 SDG No.: 68088811-1  
 Client Sample ID: CV0509II-CS MSD Lab Sample ID: 680-88811-1 MSD  
 Matrix: Solid Lab File ID: 1CD05040.D  
 Analysis Method: 8270C LL Date Collected: 03/27/2013 08:25  
 Extract. Method: 3546 Date Extracted: 04/04/2013 10:07  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/05/2013 23:22  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 40.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136171 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	705		670	130
208-96-8	Acenaphthylene	766		270	34
120-12-7	Anthracene	721		56	28
56-55-3	Benzo[a]anthracene	1120		54	26
50-32-8	Benzo[a]pyrene	911		70	35
205-99-2	Benzo[b]fluoranthene	1250		82	41
191-24-2	Benzo[g,h,i]perylene	869		130	30
207-08-9	Benzo[k]fluoranthene	849		54	24
218-01-9	Chrysene	1010		60	30
53-70-3	Dibenz(a,h)anthracene	759		130	27
206-44-0	Fluoranthene	1330		130	27
86-73-7	Fluorene	676		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	771		130	48
90-12-0	1-Methylnaphthalene	839		270	30
91-57-6	2-Methylnaphthalene	896		270	48
91-20-3	Naphthalene	765		270	30
85-01-8	Phenanthrene	1080		54	26
129-00-0	Pyrene	1270		130	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05040.D  
 Lab Smp Id: 680-88811-a-1-c msd  
 Inj Date : 05-APR-2013 23:22  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88811-a-1-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 39 QC Sample: MSD  
 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	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	614948	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.780	(1.000)	473107	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	888143	40.0000	
\$ 14 o-Terphenyl	230		5.974	5.974	(1.044)	17802	1.95339	516.4282
* 18 Chrysene-d12	240		7.656	7.662	(1.000)	968869	40.0000	
* 23 Perylene-d12	264		8.827	8.827	(1.000)	918949	40.0000	
2 Naphthalene	128		3.704	3.704	(1.003)	27015	1.71037	452.1803
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	21547	2.00404	529.8189
4 1-Methylnaphthalene	142		4.192	4.192	(1.135)	18148	1.87586	495.9307
5 Acenaphthylene	152		4.692	4.692	(0.982)	33564	1.71413	453.1746
7 Acenaphthene	154		4.798	4.798	(1.004)	19129	1.57730	416.9991
9 Fluorene	166		5.115	5.116	(1.070)	24440	1.51168	399.6518
11 Phenanthrene	178		5.739	5.739	(1.003)	62730	2.42511	641.1398
12 Anthracene	178		5.774	5.774	(1.009)	42314	1.61372	426.6279

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.880	5.880	(1.028)	37065	1.64990	436.1919
15 Fluoranthene	202	6.568	6.574	(1.148)	84706	2.96520	783.9266
16 Pyrene	202	6.739	6.739	(0.880)	76255	2.84126	751.1600
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	66643	2.50955	663.4644
19 Chrysene	228	7.680	7.680	(1.003)	62626	2.26836	599.6977
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	72635	2.79586	739.1571
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.963)	47721	1.89921	502.1032
22 Benzo(a)pyrene	252	8.768	8.774	(0.993)	49829	2.03724	538.5963
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.128)	40059	1.72434	455.8735(M)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.129)	36460	1.69894	449.1587
26 Benzo(g,h,i)perylene	276	10.292	10.303	(1.166)	46094	1.94403	513.9547

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD05040.D

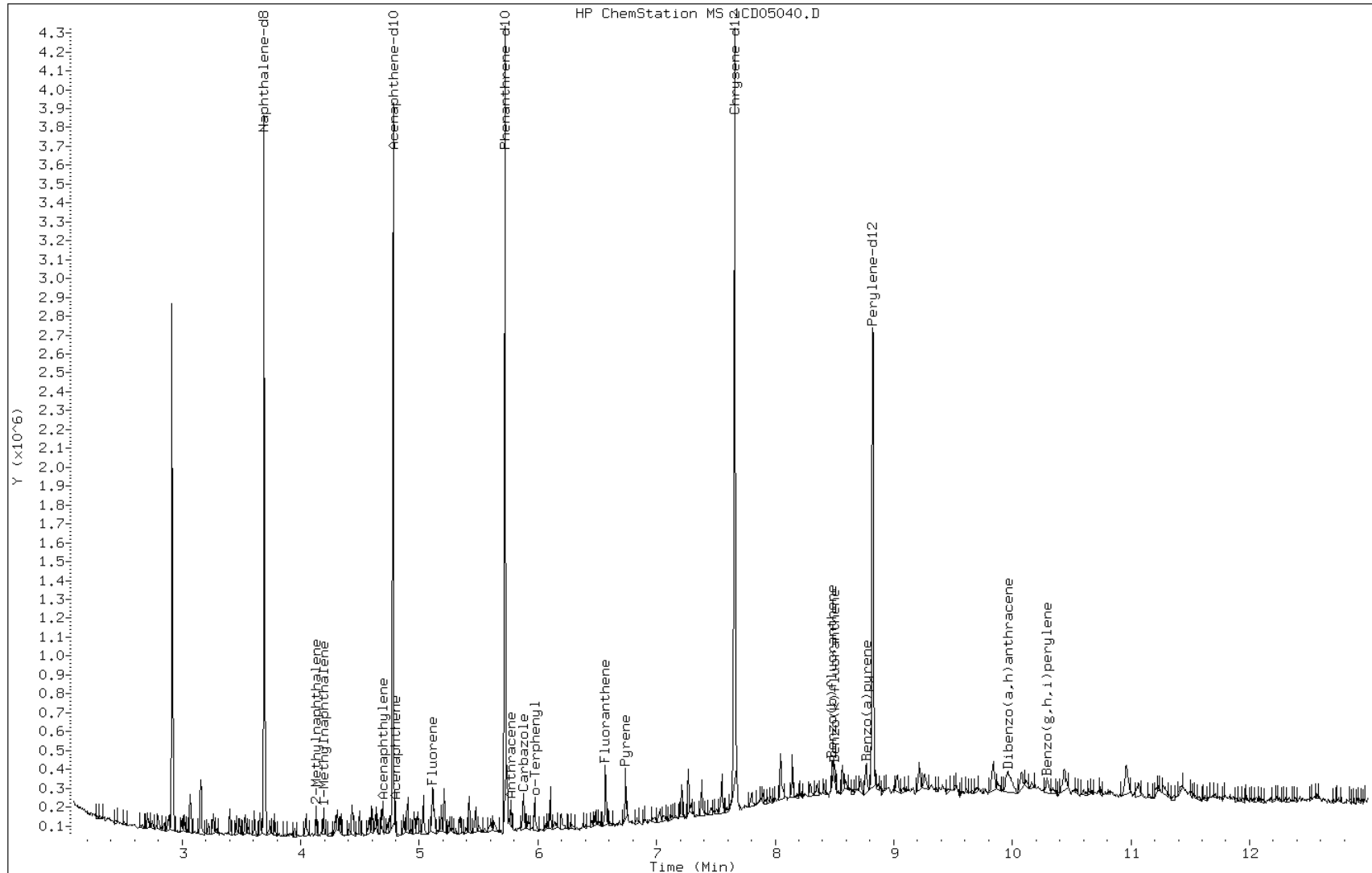
Date: 05-APR-2013 23:22

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88811-a-1-c msd

Operator: SCC

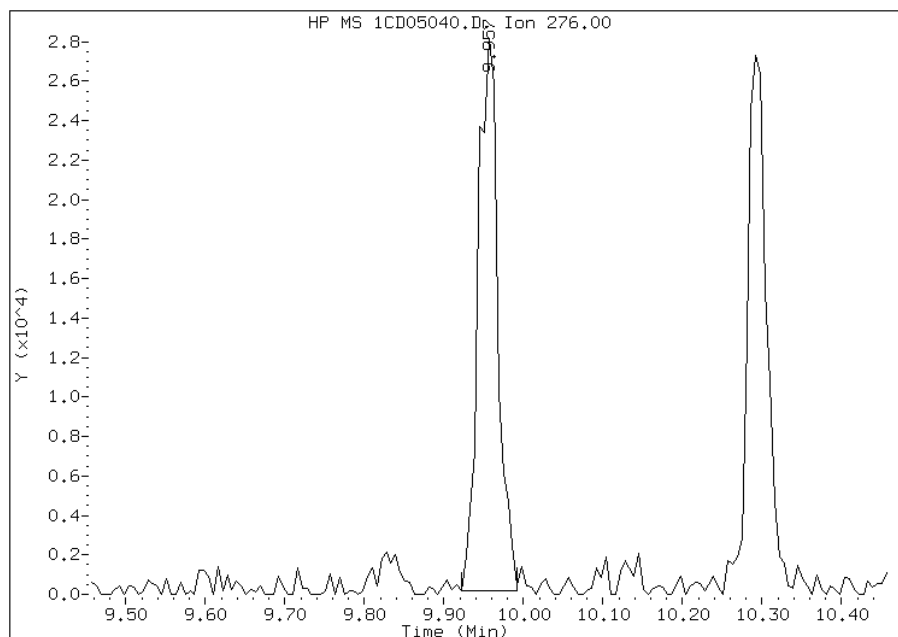


# Manual Integration Report

Data File: 1CD05040.D  
Inj. Date and Time: 05-APR-2013 23:22  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/09/2013

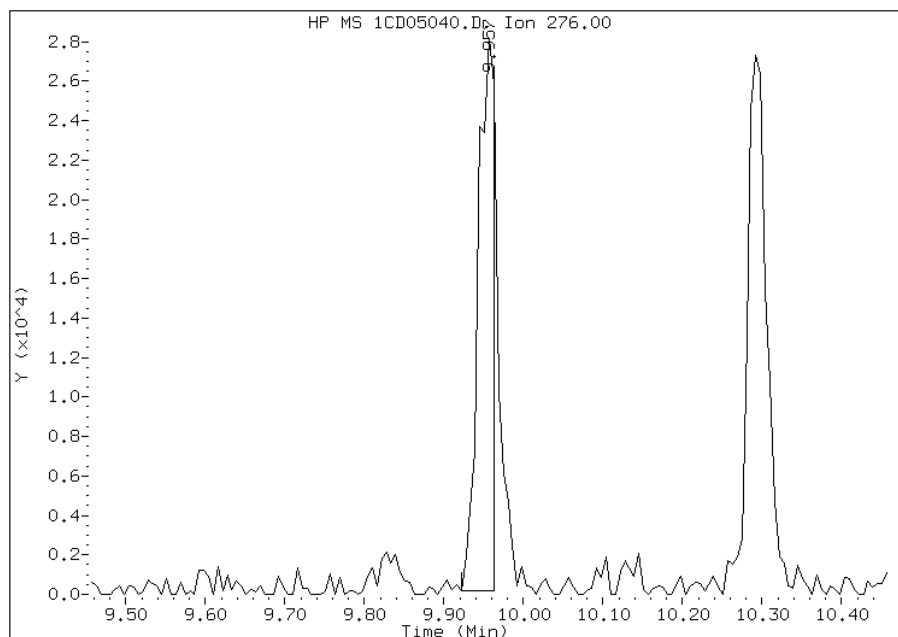
## Processing Integration Results

RT: 9.96  
Response: 48275  
Amount: 2  
Conc: 549



## Manual Integration Results

RT: 9.96  
Response: 40059  
Amount: 2  
Conc: 456



Manually Integrated By: cantins  
Modification Date: 09-Apr-2013 13:47  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMA5973Start Date: 04/09/2013 09:45Analysis Batch Number: 136269End Date: 04/09/2013 22:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 09:45	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 10:03	1		DB-5MS 250 (um)
DFTPP 660-136269/2		04/09/2013 10:18	1	1AD09002.D	DB-5MS 250 (um)
ICIS 660-136269/3		04/09/2013 10:31	1	1AD09003.D	DB-5MS 250 (um)
IC 660-136269/4		04/09/2013 10:48	1	1AD09004.D	DB-5MS 250 (um)
IC 660-136269/5		04/09/2013 11:04	1	1AD09005.D	DB-5MS 250 (um)
IC 660-136269/6		04/09/2013 11:19	1	1AD09006.D	DB-5MS 250 (um)
IC 660-136269/7		04/09/2013 11:33	1	1AD09007.D	DB-5MS 250 (um)
IC 660-136269/8		04/09/2013 11:49	1	1AD09008.D	DB-5MS 250 (um)
IC 660-136269/9		04/09/2013 12:03	1	1AD09009.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 12:19	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 13:15	1		DB-5MS 250 (um)
ICV 660-136269/12		04/09/2013 13:51	1	1AD09012.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 15:35	4		DB-5MS 250 (um)
680-88811-A-22-B MS DL		04/09/2013 15:50	4	1AD09014.D	DB-5MS 250 (um)
680-88811-A-22-C MSD DL		04/09/2013 16:05	4	1AD09015.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:02	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:17	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:03	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 18:48	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:03	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:33	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 19:48	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:03	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:18	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:33	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 20:49	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:19	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:34	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:04	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:19	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:34	4		DB-5MS 250 (um)
ZZZZZ		04/09/2013 22:49	4		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250 (um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250 (um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250 (um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250 (um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250 (um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250 (um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250 (um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250 (um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250 (um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250 (um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973Start Date: 04/05/2013 10:58Analysis Batch Number: 136171End Date: 04/05/2013 23:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/05/2013 10:58	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 11:18	1		DB-5MS 250 (um)
DFTPP 660-136171/2		04/05/2013 11:37	1		DB-5MS 250 (um)
DFTPP 660-136171/3		04/05/2013 11:57	1	1CD05003.D	DB-5MS 250 (um)
CCVIS 660-136171/4		04/05/2013 12:15	1	1CD05004.D	DB-5MS 250 (um)
ZZZZZ		04/05/2013 12:35	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 12:54	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 13:12	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 13:31	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 13:49	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 14:07	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 14:44	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 15:02	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 15:39	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 15:57	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 16:20	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 16:38	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 16:57	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 17:15	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 17:52	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 18:10	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 18:28	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 18:47	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 19:05	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 19:23	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 19:42	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 20:00	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 20:18	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 20:37	1		DB-5MS 250 (um)
MB 660-136104/1-A		04/05/2013 20:55	1	1CD05032.D	DB-5MS 250 (um)
LCS 660-136104/2-A		04/05/2013 21:13	1	1CD05033.D	DB-5MS 250 (um)
ZZZZZ		04/05/2013 21:32	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 21:50	4		DB-5MS 250 (um)
ZZZZZ		04/05/2013 22:09	1		DB-5MS 250 (um)
ZZZZZ		04/05/2013 22:27	1		DB-5MS 250 (um)
680-88811-1	CV0509II-CS	04/05/2013 22:45	4	1CD05038.D	DB-5MS 250 (um)
680-88811-1 MS	CV0509II-CS MS	04/05/2013 23:04	4	1CD05039.D	DB-5MS 250 (um)
680-88811-1 MSD	CV0509II-CS MSD	04/05/2013 23:22	4	1CD05040.D	DB-5MS 250 (um)
680-88811-2	CV0509JJ-CS	04/05/2013 23:40	4	1CD05041.D	DB-5MS 250 (um)
ZZZZZ		04/05/2013 23:58	4		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973 Start Date: 04/09/2013 10:54Analysis Batch Number: 136263 End Date: 04/09/2013 14:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/09/2013 10:54	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 11:12	1		DB-5MS 250 (um)
DFTPP 660-136263/2		04/09/2013 11:31	1	1CD09002.D	DB-5MS 250 (um)
CCVIS 660-136263/3		04/09/2013 11:47	1	1CD09003.D	DB-5MS 250 (um)
ZZZZZ		04/09/2013 12:10	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 12:28	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 12:46	1		DB-5MS 250 (um)
ZZZZZ		04/09/2013 13:05	4		DB-5MS 250 (um)
680-88811-3	CV0509KK-CS	04/09/2013 13:23	1	1CD09008.D	DB-5MS 250 (um)
680-88811-13	CV0013A-CS	04/09/2013 13:41	1	1CD09009.D	DB-5MS 250 (um)
680-88811-14	CV0013B-CS	04/09/2013 14:00	1	1CD09010.D	DB-5MS 250 (um)
680-88811-15	CV0013C-CS	04/09/2013 14:18	4	1CD09011.D	DB-5MS 250 (um)
680-88811-16	CV0013C-CSD	04/09/2013 14:36	4	1CD09012.D	DB-5MS 250 (um)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88811-1SDG No.: 68088811-1Instrument ID: BSMC5973Start Date: 04/08/2013 12:21Analysis Batch Number: 136271End Date: 04/08/2013 23:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/08/2013 12:21	1		DB-5MS 250 (um)
DFTPP 660-136271/2		04/08/2013 12:39	1	1CD08002.D	DB-5MS 250 (um)
CCVIS 660-136271/3		04/08/2013 12:56	1	1CD08003.D	DB-5MS 250 (um)
ZZZZZ		04/08/2013 13:14	1		DB-5MS 250 (um)
MB 660-136127/1-A		04/08/2013 13:45	1	1CD08005.D	DB-5MS 250 (um)
LCS 660-136127/2-A		04/08/2013 14:04	1	1CD08006.D	DB-5MS 250 (um)
ZZZZZ		04/08/2013 14:22	1		DB-5MS 250 (um)
680-88811-A-22-B MS		04/08/2013 14:40	1	1CD08008.D	DB-5MS 250 (um)
680-88811-A-22-C MSD		04/08/2013 14:59	1	1CD08009.D	DB-5MS 250 (um)
680-88811-17	CV0013D-CS	04/08/2013 15:17	1	1CD08010.D	DB-5MS 250 (um)
680-88811-18	CV0013E-CS	04/08/2013 15:35	1	1CD08011.D	DB-5MS 250 (um)
680-88811-19	CV0013AB-GS	04/08/2013 15:54	1	1CD08012.D	DB-5MS 250 (um)
680-88811-20	CV1036A-CS	04/08/2013 16:12	1	1CD08013.D	DB-5MS 250 (um)
ZZZZZ		04/08/2013 16:30	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 16:49	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 17:07	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 17:25	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 17:44	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 18:02	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 18:20	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 18:38	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 18:57	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 19:15	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 19:33	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 19:52	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 20:10	1		DB-5MS 250 (um)
ZZZZZ		04/08/2013 20:28	1		DB-5MS 250 (um)
680-88811-4	CV0509LL-CS	04/08/2013 20:46	1	1CD08028.D	DB-5MS 250 (um)
680-88811-5	CV0509MM-CS	04/08/2013 21:05	1	1CD08029.D	DB-5MS 250 (um)
680-88811-6	CV0509AO-GS	04/08/2013 21:23	4	1CD08030.D	DB-5MS 250 (um)
680-88811-7	CV0509AP-GS	04/08/2013 21:41	4	1CD08031.D	DB-5MS 250 (um)
680-88811-8	CV0283A-CS	04/08/2013 22:00	4	1CD08032.D	DB-5MS 250 (um)
680-88811-9	CV0283B-CS	04/08/2013 22:18	4	1CD08033.D	DB-5MS 250 (um)
680-88811-10	CV0283B-CSD	04/08/2013 22:36	4	1CD08034.D	DB-5MS 250 (um)
680-88811-11	CV0283C-CS	04/08/2013 22:55	4	1CD08035.D	DB-5MS 250 (um)
680-88811-12	CV0284A-CS	04/08/2013 23:13	4	1CD08036.D	DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Batch Number: 136104 Batch Start Date: 04/04/13 10:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/04/13 18:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136104/1		3546, 8270C LL		15.14 g	1 mL		1 mL		
LCS 660-136104/2		3546, 8270C LL		15.25 g	1 mL	1 mL	1 mL		
680-88811-A-1	CV0509II-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88811-A-1 MS	CV0509II-CS	3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-88811-A-1 MSD	CV0509II-CS	3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-88811-A-2	CV0509JJ-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-88811-A-3	CV0509KK-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88811-A-4	CV0509LL-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88811-A-5	CV0509MM-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88811-A-6	CV0509AO-GS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88811-A-7	CV0509AP-GS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88811-A-8	CV0283A-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-88811-A-9	CV0283B-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88811-A-10	CV0283B-CSD	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-88811-A-11	CV0283C-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88811-A-12	CV0284A-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-88811-A-13	CV0013A-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-88811-A-14	CV0013B-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88811-A-15	CV0013C-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-88811-A-16	CV0013C-CSD	3546, 8270C LL	T	14.93 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.: 680-88811-1SDG No.: 68088811-1Batch Number: 136104 Batch Start Date: 04/04/13 10:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/04/13 18:05

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 62
Microwave Start Time	11:20 4/4/13
Microwave Stop Time	11:55 4/4/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Batch Number: 136127 Batch Start Date: 04/04/13 13:28 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/05/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136127/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-136127/2		3546, 8270C LL		15.11 g	1 mL	1 mL	1 mL		
680-88811-A-17	CV0013D-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88811-A-18	CV0013E-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88811-A-19	CV0013AB-GS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88811-A-20	CV1036A-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88811-A-22 MS		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-88811-A-22 MSD		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1SDG No.: 68088811-1Batch Number: 136127 Batch Start Date: 04/04/13 13:28 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/05/13 11:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Hexane Lot#	N.A
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 63
Microwave Start Time	14:00 4/4/13
Microwave Stop Time	14:35 4/4/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88811-1

SDG No.: 68088811-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0509II-CS	680-88811-1
CV0509JJ-CS	680-88811-2
CV0509KK-CS	680-88811-3
CV0509LL-CS	680-88811-4
CV0509MM-CS	680-88811-5
CV0509AO-GS	680-88811-6
CV0509AP-GS	680-88811-7
CV0283A-CS	680-88811-8
CV0283B-CS	680-88811-9
CV0283B-CSD	680-88811-10
CV0283C-CS	680-88811-11
CV0284A-CS	680-88811-12
CV0013A-CS	680-88811-13
CV0013B-CS	680-88811-14
CV0013C-CS	680-88811-15
CV0013C-CSD	680-88811-16
CV0013D-CS	680-88811-17
CV0013E-CS	680-88811-18
CV0013AB-GS	680-88811-19
CV1036A-CS	680-88811-20

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88811-1  
SDG Number: 68088811-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	



9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88811-1  
SDG Number: 68088811-1  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	





13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/01/2013 08:16 End Date: 04/01/2013 08:16

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
680-88811-17	1	T	08:16	X															
ZZZZZZ			08:16																
ZZZZZZ			08:16																
680-88811-A-44 MS	1	T	08:16	X															
680-88811-A-44 MSD	1	T	08:16	X															
ZZZZZZ			08:16																
680-88811-13	1	T	08:16	X															
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
680-88811-10	1	T	08:16	X															
ZZZZZZ			08:16																
ZZZZZZ			08:16																
680-88811-12	1	T	08:16	X															
ZZZZZZ			08:16																
680-88811-A-62 MS	1	T	08:16	X															
680-88811-A-62 MSD	1	T	08:16	X															
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
ZZZZZZ			08:16																
680-88811-20	1	T	08:16	X															
ZZZZZZ			08:16																
ZZZZZZ			08:16																

Prep Types  
T = Total/NA



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Batch Number: 135961 Batch Start Date: 04/01/13 07:04 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-4	CV0509LL-CS	Moisture	T	39	0 g	5.55 g	2.47 g		
680-88811-A-1	CV0509II-CS	Moisture	T	40	0 g	4.65 g	2.75 g		
680-88811-A-1	CV0509II-CS	Moisture	T	40	0 g	4.65 g	2.75 g		
MS 680-88811-A-1	CV0509II-CS	Moisture	T	40	0 g	4.65 g	2.75 g		
MSD 680-88811-A-5	CV0509MM-CS	Moisture	T	41	0 g	5.34 g	3.33 g		
680-88811-A-2	CV0509JJ-CS	Moisture	T	42	0 g	4.46 g	2.74 g		
680-88811-A-7	CV0509AP-GS	Moisture	T	44	0 g	4.18 g	2.55 g		
680-88811-A-15	CV0013C-CS	Moisture	T	45	0 g	5.43 g	3.60 g		
MS 680-88811-A-22		Moisture	T	46	0 g	4.45 g	2.79 g		
MSD 680-88811-A-22		Moisture	T	46	0 g	4.45 g	2.79 g		
680-88811-A-8	CV0283A-CS	Moisture	T	47	0 g	5.02 g	2.67 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.1.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Batch Number: 135964 Batch Start Date: 04/01/13 08:16 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-17	CV0013D-CS	Moisture	T	1	0 g	4.77 g	3.80 g		
680-88811-A-44 MS		Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-44 MSD		Moisture	T	3	0 g	4.57 g	3.69 g		
680-88811-A-13	CV0013A-CS	Moisture	T	5	0 g	4.51 g	3.41 g		
680-88811-A-10	CV0283B-CSD	Moisture	T	10	0 g	5.00 g	3.68 g		
680-88811-A-12	CV0284A-CS	Moisture	T	13	0 g	5.61 g	4.27 g		
680-88811-A-62 MS		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-62 MSD		Moisture	T	14	0 g	4.28 g	3.47 g		
680-88811-A-20	CV1036A-CS	Moisture	T	24	0 g	4.50 g	3.55 g		

Batch Notes	
Balance ID	2 No Unit

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88811-1

SDG No.: 68088811-1

Batch Number: 135977 Batch Start Date: 04/01/13 10:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88811-A-6	CV0509AO-GS	Moisture	T	1	0 g	4.53 g	3.51 g		
680-88811-A-9	CV0283B-CS	Moisture	T	2	0 g	4.90 g	3.43 g		
680-88811-A-16	CV0013C-CSD	Moisture	T	10	0 g	4.39 g	3.52 g		
680-88811-A-19	CV0013AB-GS	Moisture	T	18	0 g	4.29 g	3.22 g		
680-88811-A-18	CV0013E-CS	Moisture	T	19	0 g	4.27 g	3.41 g		
680-88811-A-3	CV0509KK-CS	Moisture	T	20	0 g	4.46 g	3.68 g		
680-88811-A-14	CV0013B-CS	Moisture	T	21	0 g	4.40 g	3.17 g		
680-88811-A-11	CV0283C-CS	Moisture	T	22	0 g	4.77 g	3.56 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.1.13
Time samples were place in the oven	1330
Date samples were removed from oven	4.2.13
Time Samples were removed from oven	0622

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture



# Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</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, ...)	<i>LLPAH</i> <i>Metal PCBs</i>	STANDARD REPORT DELIVERY	<input type="radio"/>
CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	CLIENT FAX			DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE)

(b) (6)  
(b) (6)  
(b) (6)

COMPANY CONTINUING THIS WORK (if applicable)	PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>3-27-13</i>	<i>0825</i>	<i>CV0509II-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0833</i>	<i>CV0509JJ-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0845</i>	<i>CV0509KK-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0854</i>	<i>CV0509LL-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0850</i>	<i>CV0509MM-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0826</i>	<i>CV0509AO-GS</i>	<i>G</i>	<i>X</i>			<i>X</i>											
	<i>0835</i>	<i>CV0509AP-GS</i>	<i>G</i>	<i>X</i>			<i>X</i>											
	<i>0930</i>	<i>CV0283A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0935</i>	<i>CV0283B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0937</i>	<del><i>CV0283C-CS</i></del> <i>CV0283B-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0938</i>	<i>CV0283C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>0915</i>	<i>CV0284A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-28-13</i>	TIME <i>12:00</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/29/13</i>	TIME <i>0945</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680 8811</i>	LABORATORY REMARKS <i>3.6 °C</i>	

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>4</i>
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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 PAH Metals: <i>RUH 8</i>	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	CLIENT FAX				

CLIENT NAME <i>(b) (6)</i>	CLIENT E-MAIL	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
-------------------------------	---------------	------------	--	----------------

COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
---	---

PRESERVATIVE				NUMBER OF CONTAINERS SUBMITTED	REMARKS
--------------	--	--	--	--------------------------------	---------

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											
<i>3-27-13</i>	<i>0945</i>	<i>CV0013 A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0955</i>	<i>CV0013 B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0958</i>	<i>CV0013 C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1000</i>	<i>CV0013 D-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1007</i>	<i>CV0013 D-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1015</i>	<i>CV0013 E-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0950</i>	<i>CV0013 AB-GIS</i>	<i>G</i>	<i>X</i>			<i>X</i>					
	<i>1235</i>	<i>CV1036A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1240</i>	<i>CV1036B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1240</i>	<i>CV1039A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>				
	<i>1240</i>	<i>CV1039A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>				
	<i>1250</i>	<i>CV1039B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-28-13</i>	TIME <i>12:00</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
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RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
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LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/29/13</i>	TIME <i>0945</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-98811</i>	LABORATORY REMARKS <i>3.6</i>	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

SDG Number: 68088811-1

**Login Number: 88811**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Barnett, Eddie T**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

SDG Number: 68088811-1

**Login Number: 88811**

**List Source: TestAmerica Tampa**

**List Number: 1**

**List Creation: 03/30/13 10:20 AM**

**Creator: Edwards, Erricka**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88811-1

TestAmerica Sample Delivery Group: 68088811-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/10/2013 2:25:31 PM

Bernard Kirkland

Project Manager I

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey

Project Manager II

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*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.*



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# Case Narrative

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

**Job ID: 680-88811-1**

**Laboratory: TestAmerica Savannah**

Narrative

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88811-1**

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

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

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

### RECEIPT

The samples were received on 03/29/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 3.8° C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0509II-CS (680-88811-1), CV0509JJ-CS (680-88811-2), CV0509KK-CS (680-88811-3), CV0509LL-CS (680-88811-4), CV0509MM-CS (680-88811-5), CV0509AO-GS (680-88811-6), CV0509AP-GS (680-88811-7), CV0283A-CS (680-88811-8), CV0283B-CS (680-88811-9), CV0283B-CSD (680-88811-10), CV0283C-CS (680-88811-11), CV0284A-CS (680-88811-12), CV0013A-CS (680-88811-13), CV0013B-CS (680-88811-14), CV0013C-CS (680-88811-15), CV0013C-CSD (680-88811-16), CV0013D-CS (680-88811-17), CV0013E-CS (680-88811-18), CV0013AB-GS (680-88811-19) and CV1036A-CS (680-88811-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013, 04/08/2013 and 04/09/2013.

Samples CV0509II-CS (680-88811-1)[4X], CV0509JJ-CS (680-88811-2)[4X], CV0509AO-GS (680-88811-6)[4X], CV0509AP-GS (680-88811-7)[4X], CV0283A-CS (680-88811-8)[4X], CV0283B-CS (680-88811-9)[4X], CV0283B-CSD (680-88811-10)[4X], CV0283C-CS (680-88811-11)[4X], CV0284A-CS (680-88811-12)[4X], CV0013C-CS (680-88811-15)[4X] and CV0013C-CSD (680-88811-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0509II-CS (680-88811-1) in batch 660-136171.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88811-22 in batch 660-136269.  
2-Methylnaphthalene and Naphthalene exceeded the rpd limit.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the SVOAs analyses.

All other 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: 680-88811-1  
SDG: 68088811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88811-1	CV0509II-CS	Solid	03/27/13 08:25	03/29/13 09:45
680-88811-2	CV0509JJ-CS	Solid	03/27/13 08:33	03/29/13 09:45
680-88811-3	CV0509KK-CS	Solid	03/27/13 08:45	03/29/13 09:45
680-88811-4	CV0509LL-CS	Solid	03/27/13 08:54	03/29/13 09:45
680-88811-5	CV0509MM-CS	Solid	03/27/13 08:50	03/29/13 09:45
680-88811-6	CV0509AO-GS	Solid	03/27/13 08:26	03/29/13 09:45
680-88811-7	CV0509AP-GS	Solid	03/27/13 08:35	03/29/13 09:45
680-88811-8	CV0283A-CS	Solid	03/27/13 09:30	03/29/13 09:45
680-88811-9	CV0283B-CS	Solid	03/27/13 09:35	03/29/13 09:45
680-88811-10	CV0283B-CSD	Solid	03/27/13 09:37	03/29/13 09:45
680-88811-11	CV0283C-CS	Solid	03/27/13 09:38	03/29/13 09:45
680-88811-12	CV0284A-CS	Solid	03/27/13 09:15	03/29/13 09:45
680-88811-13	CV0013A-CS	Solid	03/27/13 09:45	03/29/13 09:45
680-88811-14	CV0013B-CS	Solid	03/27/13 09:55	03/29/13 09:45
680-88811-15	CV0013C-CS	Solid	03/27/13 09:58	03/29/13 09:45
680-88811-16	CV0013C-CSD	Solid	03/27/13 10:00	03/29/13 09:45
680-88811-17	CV0013D-CS	Solid	03/27/13 10:07	03/29/13 09:45
680-88811-18	CV0013E-CS	Solid	03/27/13 10:15	03/29/13 09:45
680-88811-19	CV0013AB-GS	Solid	03/27/13 09:50	03/29/13 09:45
680-88811-20	CV1036A-CS	Solid	03/27/13 12:35	03/29/13 09:45



# Method Summary

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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## Definitions/Glossary

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

### 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.
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509II-CS**

**Lab Sample ID: 680-88811-1**

Date Collected: 03/27/13 08:25

Matrix: Solid

Date Received: 03/29/13 09:45

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	670	U	670	130	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Acenaphthylene</b>	<b>69</b>	<b>J</b>	270	34	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Anthracene</b>	<b>320</b>	<b>F</b>	56	28	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Benzo[a]anthracene</b>	<b>1200</b>	<b>F</b>	54	26	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Benzo[a]pyrene</b>	<b>860</b>	<b>F</b>	70	35	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Benzo[b]fluoranthene</b>	<b>1100</b>	<b>F</b>	82	41	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Benzo[g,h,i]perylene</b>	<b>620</b>	<b>F</b>	130	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Benzo[k]fluoranthene</b>	<b>880</b>	<b>F</b>	54	24	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Chrysene</b>	<b>1000</b>	<b>F</b>	60	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Dibenz(a,h)anthracene</b>	<b>200</b>		130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Fluoranthene</b>	<b>2200</b>	<b>F</b>	130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Fluorene</b>	<b>120</b>	<b>J</b>	130	27	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>520</b>	<b>F</b>	130	48	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>1-Methylnaphthalene</b>	<b>160</b>	<b>J</b>	270	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>2-Methylnaphthalene</b>	<b>230</b>	<b>J</b>	270	48	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Naphthalene</b>	<b>180</b>	<b>J</b>	270	30	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Phenanthrene</b>	<b>1700</b>	<b>F</b>	54	26	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4
<b>Pyrene</b>	<b>1900</b>	<b>F</b>	130	25	ug/Kg	☼	04/04/13 10:07	04/05/13 22:45	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130	04/04/13 10:07	04/05/13 22:45	4

**Client Sample ID: CV0509JJ-CS**

**Lab Sample ID: 680-88811-2**

Date Collected: 03/27/13 08:33

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	640	U	640	130	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Acenaphthylene</b>	<b>77</b>	<b>J</b>	260	32	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Anthracene</b>	<b>130</b>		54	27	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Benzo[a]anthracene</b>	<b>630</b>		51	25	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Benzo[a]pyrene</b>	<b>520</b>		67	33	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Benzo[b]fluoranthene</b>	<b>920</b>		78	39	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Benzo[g,h,i]perylene</b>	<b>400</b>		130	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Benzo[k]fluoranthene</b>	<b>390</b>		51	23	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Chrysene</b>	<b>590</b>		58	29	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Dibenz(a,h)anthracene</b>	<b>140</b>		130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Fluoranthene</b>	<b>720</b>		130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Fluorene</b>	<b>35</b>	<b>J</b>	130	26	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>340</b>		130	45	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>1-Methylnaphthalene</b>	<b>89</b>	<b>J</b>	260	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>2-Methylnaphthalene</b>	<b>170</b>	<b>J</b>	260	45	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Naphthalene</b>	<b>160</b>	<b>J</b>	260	28	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Phenanthrene</b>	<b>400</b>		51	25	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4
<b>Pyrene</b>	<b>710</b>		130	24	ug/Kg	☼	04/04/13 10:07	04/05/13 23:40	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130	04/04/13 10:07	04/05/13 23:40	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509KK-CS**

**Lab Sample ID: 680-88811-3**

Date Collected: 03/27/13 08:45

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	44	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Acenaphthylene	160		48	6.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Anthracene	230		10	5.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[a]anthracene	960		9.6	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[a]pyrene	940		12	6.2	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[b]fluoranthene	2200		15	7.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[g,h,i]perylene	690		24	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Benzo[k]fluoranthene	660		9.6	4.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Chrysene	1400		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Dibenz(a,h)anthracene	240		24	4.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Fluoranthene	1100		24	4.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Fluorene	48		24	4.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Indeno[1,2,3-cd]pyrene	700		24	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
1-Methylnaphthalene	83		48	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
2-Methylnaphthalene	110		48	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Naphthalene	110		48	5.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Phenanthrene	480		9.6	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
Pyrene	960		24	4.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				04/04/13 10:07	04/09/13 13:23	1

**Client Sample ID: CV0509LL-CS**

**Lab Sample ID: 680-88811-4**

Date Collected: 03/27/13 08:54

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 44.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	56	J	220	44	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Acenaphthylene	30	J	89	11	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Anthracene	110		19	9.3	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[a]anthracene	360		18	8.7	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[a]pyrene	270		23	12	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[b]fluoranthene	440		27	14	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[g,h,i]perylene	180		44	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Benzo[k]fluoranthene	210		18	8.0	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Chrysene	350		20	10	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Dibenz(a,h)anthracene	61		44	9.1	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Fluoranthene	620		44	8.9	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Fluorene	62		44	9.1	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Indeno[1,2,3-cd]pyrene	150		44	16	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
1-Methylnaphthalene	59	J	89	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
2-Methylnaphthalene	100		89	16	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Naphthalene	160		89	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Phenanthrene	490		18	8.7	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
Pyrene	620		44	8.2	ug/Kg	☼	04/04/13 10:07	04/08/13 20:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	51		30 - 130				04/04/13 10:07	04/08/13 20:46	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509MM-CS**

**Lab Sample ID: 680-88811-5**

Date Collected: 03/27/13 08:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Acenaphthylene</b>	<b>37</b>	<b>J</b>	64	8.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Anthracene</b>	<b>85</b>		13	6.7	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[a]anthracene</b>	<b>420</b>		13	6.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[a]pyrene</b>	<b>350</b>		17	8.3	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[b]fluoranthene</b>	<b>590</b>		20	9.8	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[g,h,i]perylene</b>	<b>240</b>		32	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Benzo[k]fluoranthene</b>	<b>300</b>		13	5.8	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Chrysene</b>	<b>430</b>		14	7.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Dibenz(a,h)anthracene</b>	<b>100</b>		32	6.6	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Fluoranthene</b>	<b>540</b>		32	6.4	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Fluorene</b>	<b>37</b>		32	6.6	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		32	11	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>1-Methylnaphthalene</b>	<b>82</b>		64	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>2-Methylnaphthalene</b>	<b>130</b>		64	11	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Naphthalene</b>	<b>94</b>		64	7.0	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Phenanthrene</b>	<b>330</b>		13	6.2	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Pyrene</b>	<b>550</b>		32	5.9	ug/Kg	☼	04/04/13 10:07	04/08/13 21:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	65		30 - 130				04/04/13 10:07	04/08/13 21:05	1

**Client Sample ID: CV0509AO-GS**

**Lab Sample ID: 680-88811-6**

Date Collected: 03/27/13 08:26

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 77.5

**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	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Acenaphthylene</b>	<b>39</b>	<b>J</b>	210	26	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Anthracene</b>	<b>50</b>		43	22	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[a]anthracene</b>	<b>350</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[a]pyrene</b>	<b>320</b>		54	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[b]fluoranthene</b>	<b>530</b>		63	32	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[g,h,i]perylene</b>	<b>270</b>		100	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Benzo[k]fluoranthene</b>	<b>170</b>		41	19	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Chrysene</b>	<b>320</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Dibenz(a,h)anthracene</b>	<b>99</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Fluoranthene</b>	<b>420</b>		100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Fluorene</b>	<b>34</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		100	37	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>1-Methylnaphthalene</b>	<b>69</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>2-Methylnaphthalene</b>	<b>89</b>	<b>J</b>	210	37	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Naphthalene</b>	<b>79</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Phenanthrene</b>	<b>270</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	4
<b>Pyrene</b>	<b>420</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/08/13 21:23	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	97		30 - 130				04/04/13 10:07	04/08/13 21:23	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509AP-GS**

**Lab Sample ID: 680-88811-7**

Date Collected: 03/27/13 08:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.0

**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	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Acenaphthylene</b>	<b>79</b>	<b>J</b>	260	33	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Anthracene</b>	<b>180</b>		55	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[a]anthracene</b>	<b>700</b>		52	25	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[a]pyrene</b>	<b>670</b>		68	34	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[b]fluoranthene</b>	<b>1100</b>		80	40	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[g,h,i]perylene</b>	<b>410</b>		130	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Benzo[k]fluoranthene</b>	<b>240</b>		52	23	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Chrysene</b>	<b>800</b>		59	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Dibenz(a,h)anthracene</b>	<b>140</b>		130	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Fluoranthene</b>	<b>1200</b>		130	26	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Fluorene</b>	<b>77</b>	<b>J</b>	130	27	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>320</b>		130	46	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>1-Methylnaphthalene</b>	<b>110</b>	<b>J</b>	260	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>2-Methylnaphthalene</b>	<b>130</b>	<b>J</b>	260	46	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	260	29	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Phenanthrene</b>	<b>670</b>		52	25	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	4
<b>Pyrene</b>	<b>1100</b>		130	24	ug/Kg	☼	04/04/13 10:07	04/08/13 21:41	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	81		30 - 130				04/04/13 10:07	04/08/13 21:41	4

**Client Sample ID: CV0283A-CS**

**Lab Sample ID: 680-88811-8**

Date Collected: 03/27/13 09:30

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 53.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	750	U	750	150	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Acenaphthylene</b>	<b>38</b>	<b>J</b>	300	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Anthracene</b>	<b>69</b>		63	32	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[a]anthracene</b>	<b>310</b>		60	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[a]pyrene</b>	<b>220</b>		78	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[b]fluoranthene</b>	<b>440</b>		92	46	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[g,h,i]perylene</b>	<b>130</b>	<b>J</b>	150	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Benzo[k]fluoranthene</b>	<b>230</b>		60	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Chrysene</b>	<b>500</b>		68	34	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Dibenz(a,h)anthracene</b>	<b>58</b>	<b>J</b>	150	31	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Fluoranthene</b>	<b>340</b>		150	30	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Fluorene</b>	<b>31</b>	<b>J</b>	150	31	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>160</b>		150	53	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>1-Methylnaphthalene</b>	<b>80</b>	<b>J</b>	300	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>2-Methylnaphthalene</b>	<b>100</b>	<b>J</b>	300	53	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Naphthalene</b>	<b>92</b>	<b>J</b>	300	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Phenanthrene</b>	<b>250</b>		60	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	4
<b>Pyrene</b>	<b>430</b>		150	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:00	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	87		30 - 130				04/04/13 10:07	04/08/13 22:00	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0283B-CS**

**Lab Sample ID: 680-88811-9**

Date Collected: 03/27/13 09:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 70.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Acenaphthylene</b>	<b>53</b>	<b>J</b>	230	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Anthracene</b>	<b>68</b>		48	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[a]anthracene</b>	<b>450</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[a]pyrene</b>	<b>330</b>		59	29	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[b]fluoranthene</b>	<b>440</b>		69	35	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[g,h,i]perylene</b>	<b>160</b>		110	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Benzo[k]fluoranthene</b>	<b>220</b>		45	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Chrysene</b>	<b>360</b>		51	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Fluoranthene</b>	<b>640</b>		110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Fluorene</b>	<b>27</b>	<b>J</b>	110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		110	40	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>1-Methylnaphthalene</b>	<b>74</b>	<b>J</b>	230	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>2-Methylnaphthalene</b>	<b>62</b>	<b>J</b>	230	40	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Naphthalene</b>	<b>75</b>	<b>J</b>	230	25	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Phenanthrene</b>	<b>320</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	4
<b>Pyrene</b>	<b>670</b>		110	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:18	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	84		30 - 130				04/04/13 10:07	04/08/13 22:18	4

**Client Sample ID: CV0283B-CSD**

**Lab Sample ID: 680-88811-10**

Date Collected: 03/27/13 09:37

Matrix: Solid

Date Received: 03/29/13 09:45

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	540	U	540	110	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Acenaphthylene</b>	<b>46</b>	<b>J</b>	220	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Anthracene</b>	<b>52</b>		46	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[a]anthracene</b>	<b>320</b>		43	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[a]pyrene</b>	<b>280</b>		56	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[b]fluoranthene</b>	<b>340</b>		66	33	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		110	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Benzo[k]fluoranthene</b>	<b>110</b>		43	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Chrysene</b>	<b>300</b>		49	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Dibenz(a,h)anthracene</b>	<b>68</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Fluoranthene</b>	<b>380</b>		110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Fluorene</b>	<b>24</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>100</b>	<b>J</b>	110	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>1-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	220	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>2-Methylnaphthalene</b>	<b>100</b>	<b>J</b>	220	39	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Naphthalene</b>	<b>83</b>	<b>J</b>	220	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Phenanthrene</b>	<b>170</b>		43	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	4
<b>Pyrene</b>	<b>390</b>		110	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:36	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	90		30 - 130				04/04/13 10:07	04/08/13 22:36	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0283C-CS**

**Lab Sample ID: 680-88811-11**

Date Collected: 03/27/13 09:38

Matrix: Solid

Date Received: 03/29/13 09:45

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	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Acenaphthylene</b>	<b>38</b>	<b>J</b>	210	27	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Anthracene</b>	<b>63</b>		45	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[a]anthracene</b>	<b>390</b>		42	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[a]pyrene</b>	<b>330</b>		55	28	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[b]fluoranthene</b>	<b>530</b>		65	32	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[g,h,i]perylene</b>	<b>260</b>		110	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Benzo[k]fluoranthene</b>	<b>220</b>		42	19	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Chrysene</b>	<b>460</b>		48	24	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Dibenz(a,h)anthracene</b>	<b>85</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Fluoranthene</b>	<b>500</b>		110	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Fluorene</b>	<b>30</b>	<b>J</b>	110	22	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190</b>		110	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>1-Methylnaphthalene</b>	<b>190</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>2-Methylnaphthalene</b>	<b>160</b>	<b>J</b>	210	38	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Naphthalene</b>	<b>130</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Phenanthrene</b>	<b>350</b>		42	21	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	4
<b>Pyrene</b>	<b>530</b>		110	20	ug/Kg	☼	04/04/13 10:07	04/08/13 22:55	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	78		30 - 130				04/04/13 10:07	04/08/13 22:55	4

**Client Sample ID: CV0284A-CS**

**Lab Sample ID: 680-88811-12**

Date Collected: 03/27/13 09:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 76.1

**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	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Acenaphthylene</b>	<b>35</b>	<b>J</b>	210	26	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Anthracene</b>	<b>99</b>		43	22	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[a]anthracene</b>	<b>470</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[a]pyrene</b>	<b>300</b>		54	27	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[b]fluoranthene</b>	<b>500</b>		63	31	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		100	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Benzo[k]fluoranthene</b>	<b>190</b>		41	19	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Chrysene</b>	<b>320</b>		46	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Dibenz(a,h)anthracene</b>	<b>89</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Fluoranthene</b>	<b>650</b>		100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Fluorene</b>	<b>37</b>	<b>J</b>	100	21	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>		100	37	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>1-Methylnaphthalene</b>	<b>81</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>2-Methylnaphthalene</b>	<b>83</b>	<b>J</b>	210	37	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Naphthalene</b>	<b>68</b>	<b>J</b>	210	23	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Phenanthrene</b>	<b>380</b>		41	20	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	4
<b>Pyrene</b>	<b>500</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/08/13 23:13	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	85		30 - 130				04/04/13 10:07	04/08/13 23:13	4

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013A-CS**

**Lab Sample ID: 680-88811-13**

Date Collected: 03/27/13 09:45

Matrix: Solid

Date Received: 03/29/13 09:45

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	130	U	130	26	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Acenaphthylene	68		52	6.6	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Anthracene	74		11	5.5	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[a]anthracene	450		10	5.1	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[a]pyrene	390		14	6.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[b]fluoranthene	610		16	8.0	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[g,h,i]perylene	270		26	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Benzo[k]fluoranthene	280		10	4.7	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Chrysene	460		12	5.9	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Dibenz(a,h)anthracene	110		26	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Fluoranthene	730		26	5.2	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Fluorene	15	J	26	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Indeno[1,2,3-cd]pyrene	270		26	9.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
1-Methylnaphthalene	23	J	52	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
2-Methylnaphthalene	29	J	52	9.3	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Naphthalene	39	J	52	5.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Phenanthrene	230		10	5.1	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
Pyrene	630		26	4.8	ug/Kg	☼	04/04/13 10:07	04/09/13 13:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				04/04/13 10:07	04/09/13 13:41	1

**Client Sample ID: CV0013B-CS**

**Lab Sample ID: 680-88811-14**

Date Collected: 03/27/13 09:55

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	40	J	140	28	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Acenaphthylene	17	J	56	7.0	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Anthracene	78		12	5.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[a]anthracene	260		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[a]pyrene	210		14	7.2	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[b]fluoranthene	350		17	8.5	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[g,h,i]perylene	150		28	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Benzo[k]fluoranthene	120		11	5.0	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Chrysene	250		13	6.3	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Dibenz(a,h)anthracene	57		28	5.7	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Fluoranthene	550		28	5.6	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Fluorene	33		28	5.7	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Indeno[1,2,3-cd]pyrene	140		28	9.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
1-Methylnaphthalene	31	J	56	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
2-Methylnaphthalene	42	J	56	9.9	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Naphthalene	57		56	6.1	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Phenanthrene	370		11	5.4	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
Pyrene	450		28	5.2	ug/Kg	☼	04/04/13 10:07	04/09/13 14:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	52		30 - 130				04/04/13 10:07	04/09/13 14:00	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013C-CS**

**Lab Sample ID: 680-88811-15**

Date Collected: 03/27/13 09:58

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 66.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Anthracene</b>	<b>68</b>		50	25	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[a]anthracene</b>	<b>420</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[a]pyrene</b>	<b>330</b>		62	31	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[b]fluoranthene</b>	<b>430</b>		72	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[g,h,i]perylene</b>	<b>320</b>		120	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Benzo[k]fluoranthene</b>	<b>330</b>		47	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Chrysene</b>	<b>420</b>		53	27	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Dibenz(a,h)anthracene</b>	<b>89</b>	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Fluoranthene</b>	<b>530</b>		120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Fluorene</b>	<b>54</b>	J	120	24	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		120	42	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>1-Methylnaphthalene</b>	<b>89</b>	J	240	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>2-Methylnaphthalene</b>	<b>93</b>	J	240	42	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Naphthalene</b>	<b>110</b>	J	240	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Phenanthrene</b>	<b>320</b>		47	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	4
<b>Pyrene</b>	<b>520</b>		120	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:18	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	99		30 - 130				04/04/13 10:07	04/09/13 14:18	4

**Client Sample ID: CV0013C-CSD**

**Lab Sample ID: 680-88811-16**

Date Collected: 03/27/13 10:00

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Acenaphthylene</b>	<b>32</b>	J	200	25	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Anthracene</b>	<b>40</b>	J	42	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[a]anthracene</b>	<b>260</b>		40	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[a]pyrene</b>	<b>260</b>		52	26	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[b]fluoranthene</b>	<b>420</b>		61	31	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[g,h,i]perylene</b>	<b>250</b>		100	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		40	18	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Chrysene</b>	<b>360</b>		45	23	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Dibenz(a,h)anthracene</b>	<b>80</b>	J	100	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Fluoranthene</b>	<b>380</b>		100	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Fluorene</b>	<b>22</b>	J	100	21	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>200</b>		100	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>1-Methylnaphthalene</b>	<b>57</b>	J	200	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>2-Methylnaphthalene</b>	<b>93</b>	J	200	36	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Naphthalene</b>	<b>93</b>	J	200	22	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Phenanthrene</b>	<b>230</b>		40	20	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	4
<b>Pyrene</b>	<b>350</b>		100	19	ug/Kg	☼	04/04/13 10:07	04/09/13 14:36	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	83		30 - 130				04/04/13 10:07	04/09/13 14:36	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013D-CS**

**Lab Sample ID: 680-88811-17**

Date Collected: 03/27/13 10:07

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	53	J	130	25	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Acenaphthylene	23	J	50	6.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Anthracene	130		11	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[a]anthracene	630		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[a]pyrene	630		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[b]fluoranthene	1000		15	7.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[g,h,i]perylene	500		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Benzo[k]fluoranthene	370		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Chrysene	660		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Dibenz(a,h)anthracene	180		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Fluoranthene	1000		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Fluorene	71		25	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Indeno[1,2,3-cd]pyrene	410		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
1-Methylnaphthalene	93		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
2-Methylnaphthalene	100		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Naphthalene	89		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Phenanthrene	600		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	1
Pyrene	950		25	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:17	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				04/04/13 13:28	04/08/13 15:17	1

**Client Sample ID: CV0013E-CS**

**Lab Sample ID: 680-88811-18**

Date Collected: 03/27/13 10:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	120	25	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Acenaphthylene	19	J	50	6.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Anthracene	87		10	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[a]anthracene	530		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[a]pyrene	520		13	6.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[b]fluoranthene	870		15	7.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[g,h,i]perylene	440		25	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Benzo[k]fluoranthene	310		10	4.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Chrysene	490		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Dibenz(a,h)anthracene	130		25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Fluoranthene	800		25	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Fluorene	23	J	25	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Indeno[1,2,3-cd]pyrene	390		25	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
1-Methylnaphthalene	63		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
2-Methylnaphthalene	92		50	8.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Naphthalene	52		50	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Phenanthrene	400		10	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	1
Pyrene	680		25	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:35	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				04/04/13 13:28	04/08/13 15:35	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0013AB-GS**

**Lab Sample ID: 680-88811-19**

Date Collected: 03/27/13 09:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	130	27	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Acenaphthylene	51	J	53	6.7	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Anthracene	120		11	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[a]anthracene	690		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[a]pyrene	610		14	6.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[b]fluoranthene	980		16	8.1	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[g,h,i]perylene	460		27	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Benzo[k]fluoranthene	360		11	4.8	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Chrysene	660		12	6.0	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Dibenz(a,h)anthracene	150		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Fluoranthene	1200		27	5.3	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Fluorene	42		27	5.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Indeno[1,2,3-cd]pyrene	430		27	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
1-Methylnaphthalene	110		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
2-Methylnaphthalene	100		53	9.5	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Naphthalene	76		53	5.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Phenanthrene	680		11	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	1
Pyrene	1100		27	4.9	ug/Kg	☼	04/04/13 13:28	04/08/13 15:54	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				04/04/13 13:28	04/08/13 15:54	1

**Client Sample ID: CV1036A-CS**

**Lab Sample ID: 680-88811-20**

Date Collected: 03/27/13 12:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	32	J	130	26	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Acenaphthylene	48	J	51	6.4	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Anthracene	110		11	5.4	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[a]anthracene	520		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[a]pyrene	600		13	6.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[b]fluoranthene	1000		16	7.8	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[g,h,i]perylene	460		26	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Benzo[k]fluoranthene	350		10	4.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Chrysene	720		11	5.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Dibenz(a,h)anthracene	150		26	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Fluoranthene	820		26	5.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Fluorene	40		26	5.2	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Indeno[1,2,3-cd]pyrene	430		26	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
1-Methylnaphthalene	140		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
2-Methylnaphthalene	180		51	9.1	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Naphthalene	160		51	5.6	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Phenanthrene	410		10	5.0	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
Pyrene	780		26	4.7	ug/Kg	☼	04/04/13 13:28	04/08/13 16:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	74		30 - 130				04/04/13 13:28	04/08/13 16:12	1

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

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

**Lab Sample ID: MB 660-136104/1-A**

**Matrix: Solid**

**Analysis Batch: 136171**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136104**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Fluorene	20	U	20	4.1	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Naphthalene	40	U	40	4.4	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/04/13 10:07	04/05/13 20:55	1
Pyrene	20	U	20	3.7	ug/Kg		04/04/13 10:07	04/05/13 20:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		30 - 130	04/04/13 10:07	04/05/13 20:55	1

**Lab Sample ID: LCS 660-136104/2-A**

**Matrix: Solid**

**Analysis Batch: 136171**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136104**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	484		ug/Kg		74	39 - 130
Acenaphthylene	656	476		ug/Kg		73	38 - 130
Anthracene	656	465		ug/Kg		71	37 - 130
Benzo[a]anthracene	656	525		ug/Kg		80	40 - 130
Benzo[a]pyrene	656	461		ug/Kg		70	49 - 130
Benzo[b]fluoranthene	656	447		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	656	418		ug/Kg		64	32 - 130
Benzo[k]fluoranthene	656	532		ug/Kg		81	32 - 130
Chrysene	656	492		ug/Kg		75	41 - 130
Dibenz(a,h)anthracene	656	492		ug/Kg		75	27 - 130
Fluoranthene	656	478		ug/Kg		73	40 - 130
Fluorene	656	469		ug/Kg		72	40 - 130
Indeno[1,2,3-cd]pyrene	656	389		ug/Kg		59	30 - 130
1-Methylnaphthalene	656	518		ug/Kg		79	31 - 130
2-Methylnaphthalene	656	480		ug/Kg		73	33 - 130
Naphthalene	656	461		ug/Kg		70	36 - 130
Phenanthrene	656	490		ug/Kg		75	42 - 130
Pyrene	656	549		ug/Kg		84	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

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

**Lab Sample ID: LCS 660-136104/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136171**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136104**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	73		30 - 130

**Lab Sample ID: 680-88811-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 136171**

**Client Sample ID: CV0509II-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136104**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Acenaphthene	670	U	1120	792		ug/Kg	☼	71		39 - 130
Acenaphthylene	69	J	1120	814		ug/Kg	☼	67		38 - 130
Anthracene	320	F	1120	911		ug/Kg	☼	53		37 - 130
Benzo[a]anthracene	1200	F	1120	1250	F	ug/Kg	☼	6		40 - 130
Benzo[a]pyrene	860	F	1120	1020	F	ug/Kg	☼	15		49 - 130
Benzo[b]fluoranthene	1100	F	1120	1200	F	ug/Kg	☼	5		37 - 130
Benzo[g,h,i]perylene	620	F	1120	964	F	ug/Kg	☼	31		32 - 130
Benzo[k]fluoranthene	880	F	1120	1150	F	ug/Kg	☼	24		32 - 130
Chrysene	1000	F	1120	1170	F	ug/Kg	☼	15		41 - 130
Dibenz(a,h)anthracene	200		1120	789		ug/Kg	☼	53		27 - 130
Fluoranthene	2200	F	1120	1380	F	ug/Kg	☼	-77		40 - 130
Fluorene	120	J	1120	824		ug/Kg	☼	63		40 - 130
Indeno[1,2,3-cd]pyrene	520	F	1120	884		ug/Kg	☼	32		30 - 130
1-Methylnaphthalene	160	J	1120	966		ug/Kg	☼	73		31 - 130
2-Methylnaphthalene	230	J	1120	998		ug/Kg	☼	69		33 - 130
Naphthalene	180	J	1120	1040		ug/Kg	☼	77		36 - 130
Phenanthrene	1700	F	1120	1170	F	ug/Kg	☼	-47		42 - 130
Pyrene	1900	F	1120	1380	F	ug/Kg	☼	-44		44 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	92		30 - 130

**Lab Sample ID: 680-88811-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 136171**

**Client Sample ID: CV0509II-CS**  
**Prep Type: Total/NA**  
**Prep Batch: 136104**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	670	U	1120	705		ug/Kg	☼	63		39 - 130	12	40
Acenaphthylene	69	J	1120	766		ug/Kg	☼	62		38 - 130	6	40
Anthracene	320	F	1120	721	F	ug/Kg	☼	36		37 - 130	23	40
Benzo[a]anthracene	1200	F	1120	1120	F	ug/Kg	☼	-5		40 - 130	11	40
Benzo[a]pyrene	860	F	1120	911	F	ug/Kg	☼	5		49 - 130	11	40
Benzo[b]fluoranthene	1100	F	1120	1250	F	ug/Kg	☼	9		37 - 130	4	40
Benzo[g,h,i]perylene	620	F	1120	869	F	ug/Kg	☼	22		32 - 130	10	40
Benzo[k]fluoranthene	880	F	1120	849	F	ug/Kg	☼	-3		32 - 130	30	40
Chrysene	1000	F	1120	1010	F	ug/Kg	☼	1		41 - 130	14	40
Dibenz(a,h)anthracene	200		1120	759		ug/Kg	☼	50		27 - 130	4	40
Fluoranthene	2200	F	1120	1330	F	ug/Kg	☼	-82		40 - 130	4	40
Fluorene	120	J	1120	676		ug/Kg	☼	50		40 - 130	20	40
Indeno[1,2,3-cd]pyrene	520	F	1120	771	F	ug/Kg	☼	22		30 - 130	14	40
1-Methylnaphthalene	160	J	1120	839		ug/Kg	☼	61		31 - 130	14	40

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

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

**Lab Sample ID: 680-88811-1 MSD**

**Matrix: Solid**

**Analysis Batch: 136171**

**Client Sample ID: CV0509II-CS**

**Prep Type: Total/NA**

**Prep Batch: 136104**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Methylnaphthalene	230	J	1120	896		ug/Kg	*	60	33 - 130	11	40
Naphthalene	180	J	1120	765		ug/Kg	*	52	36 - 130	31	40
Phenanthrene	1700	F	1120	1080	F	ug/Kg	*	-54	42 - 130	7	40
Pyrene	1900	F	1120	1270	F	ug/Kg	*	55	44 - 130	9	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	78		30 - 130								

**Lab Sample ID: MB 660-136127/1-A**

**Matrix: Solid**

**Analysis Batch: 136271**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136127**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	100	U	100	20	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Fluorene	20	U	20	4.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Naphthalene	40	U	40	4.4	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/04/13 13:28	04/08/13 13:45	1
Pyrene	20	U	20	3.7	ug/Kg		04/04/13 13:28	04/08/13 13:45	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	94		30 - 130			04/04/13 13:28	04/08/13 13:45	1	

**Lab Sample ID: LCS 660-136127/2-A**

**Matrix: Solid**

**Analysis Batch: 136271**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136127**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Acenaphthene	662	491		ug/Kg		74	39 - 130
Acenaphthylene	662	536		ug/Kg		81	38 - 130
Anthracene	662	522		ug/Kg		79	37 - 130
Benzo[a]anthracene	662	520		ug/Kg		79	40 - 130
Benzo[a]pyrene	662	470		ug/Kg		71	49 - 130
Benzo[b]fluoranthene	662	532		ug/Kg		80	37 - 130
Benzo[g,h,i]perylene	662	514		ug/Kg		78	32 - 130
Benzo[k]fluoranthene	662	533		ug/Kg		81	32 - 130

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

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

**Lab Sample ID: LCS 660-136127/2-A**

**Matrix: Solid**

**Analysis Batch: 136271**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136127**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	662	502		ug/Kg		76	41 - 130
Dibenz(a,h)an hracene	662	593		ug/Kg		90	27 - 130
Fluoranthene	662	512		ug/Kg		77	40 - 130
Fluorene	662	537		ug/Kg		81	40 - 130
Indeno[1,2,3-cd]pyrene	662	509		ug/Kg		77	30 - 130
1-Methylnaphthalene	662	579		ug/Kg		88	31 - 130
2-Methylnaphthalene	662	486		ug/Kg		73	33 - 130
Naphthalene	662	499		ug/Kg		75	36 - 130
Phenanthrene	662	525		ug/Kg		79	42 - 130
Pyrene	662	515		ug/Kg		78	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	78		30 - 130



# QC Association Summary

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

## GC/MS Semi VOA

### Prep Batch: 136104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-1	CV0509II-CS	Total/NA	Solid	3546	
680-88811-1 MS	CV0509II-CS	Total/NA	Solid	3546	
680-88811-1 MSD	CV0509II-CS	Total/NA	Solid	3546	
680-88811-2	CV0509JJ-CS	Total/NA	Solid	3546	
680-88811-3	CV0509KK-CS	Total/NA	Solid	3546	
680-88811-4	CV0509LL-CS	Total/NA	Solid	3546	
680-88811-5	CV0509MM-CS	Total/NA	Solid	3546	
680-88811-6	CV0509AO-GS	Total/NA	Solid	3546	
680-88811-7	CV0509AP-GS	Total/NA	Solid	3546	
680-88811-8	CV0283A-CS	Total/NA	Solid	3546	
680-88811-9	CV0283B-CS	Total/NA	Solid	3546	
680-88811-10	CV0283B-CSD	Total/NA	Solid	3546	
680-88811-11	CV0283C-CS	Total/NA	Solid	3546	
680-88811-12	CV0284A-CS	Total/NA	Solid	3546	
680-88811-13	CV0013A-CS	Total/NA	Solid	3546	
680-88811-14	CV0013B-CS	Total/NA	Solid	3546	
680-88811-15	CV0013C-CS	Total/NA	Solid	3546	
680-88811-16	CV0013C-CSD	Total/NA	Solid	3546	
LCS 660-136104/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136104/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 136127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-17	CV0013D-CS	Total/NA	Solid	3546	
680-88811-18	CV0013E-CS	Total/NA	Solid	3546	
680-88811-19	CV0013AB-GS	Total/NA	Solid	3546	
680-88811-20	CV1036A-CS	Total/NA	Solid	3546	
LCS 660-136127/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136127/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 136171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-1	CV0509II-CS	Total/NA	Solid	8270C LL	136104
680-88811-1 MS	CV0509II-CS	Total/NA	Solid	8270C LL	136104
680-88811-1 MSD	CV0509II-CS	Total/NA	Solid	8270C LL	136104
680-88811-2	CV0509JJ-CS	Total/NA	Solid	8270C LL	136104
LCS 660-136104/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136104
MB 660-136104/1-A	Method Blank	Total/NA	Solid	8270C LL	136104

### Analysis Batch: 136263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-3	CV0509KK-CS	Total/NA	Solid	8270C LL	136104
680-88811-13	CV0013A-CS	Total/NA	Solid	8270C LL	136104
680-88811-14	CV0013B-CS	Total/NA	Solid	8270C LL	136104
680-88811-15	CV0013C-CS	Total/NA	Solid	8270C LL	136104
680-88811-16	CV0013C-CSD	Total/NA	Solid	8270C LL	136104

### Analysis Batch: 136271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-4	CV0509LL-CS	Total/NA	Solid	8270C LL	136104
680-88811-5	CV0509MM-CS	Total/NA	Solid	8270C LL	136104

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 136271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-6	CV0509AO-GS	Total/NA	Solid	8270C LL	136104
680-88811-7	CV0509AP-GS	Total/NA	Solid	8270C LL	136104
680-88811-8	CV0283A-CS	Total/NA	Solid	8270C LL	136104
680-88811-9	CV0283B-CS	Total/NA	Solid	8270C LL	136104
680-88811-10	CV0283B-CSD	Total/NA	Solid	8270C LL	136104
680-88811-11	CV0283C-CS	Total/NA	Solid	8270C LL	136104
680-88811-12	CV0284A-CS	Total/NA	Solid	8270C LL	136104
680-88811-17	CV0013D-CS	Total/NA	Solid	8270C LL	136127
680-88811-18	CV0013E-CS	Total/NA	Solid	8270C LL	136127
680-88811-19	CV0013AB-GS	Total/NA	Solid	8270C LL	136127
680-88811-20	CV1036A-CS	Total/NA	Solid	8270C LL	136127
LCS 660-136127/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136127
MB 660-136127/1-A	Method Blank	Total/NA	Solid	8270C LL	136127

## General Chemistry

### Analysis Batch: 135961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-1	CV0509II-CS	Total/NA	Solid	Moisture	
680-88811-1 MS	CV0509II-CS	Total/NA	Solid	Moisture	
680-88811-1 MSD	CV0509II-CS	Total/NA	Solid	Moisture	
680-88811-2	CV0509JJ-CS	Total/NA	Solid	Moisture	
680-88811-4	CV0509LL-CS	Total/NA	Solid	Moisture	
680-88811-5	CV0509MM-CS	Total/NA	Solid	Moisture	
680-88811-7	CV0509AP-GS	Total/NA	Solid	Moisture	
680-88811-8	CV0283A-CS	Total/NA	Solid	Moisture	
680-88811-15	CV0013C-CS	Total/NA	Solid	Moisture	

### Analysis Batch: 135964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-10	CV0283B-CSD	Total/NA	Solid	Moisture	
680-88811-12	CV0284A-CS	Total/NA	Solid	Moisture	
680-88811-13	CV0013A-CS	Total/NA	Solid	Moisture	
680-88811-17	CV0013D-CS	Total/NA	Solid	Moisture	
680-88811-20	CV1036A-CS	Total/NA	Solid	Moisture	

### Analysis Batch: 135977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88811-3	CV0509KK-CS	Total/NA	Solid	Moisture	
680-88811-6	CV0509AO-GS	Total/NA	Solid	Moisture	
680-88811-9	CV0283B-CS	Total/NA	Solid	Moisture	
680-88811-11	CV0283C-CS	Total/NA	Solid	Moisture	
680-88811-14	CV0013B-CS	Total/NA	Solid	Moisture	
680-88811-16	CV0013C-CSD	Total/NA	Solid	Moisture	
680-88811-18	CV0013E-CS	Total/NA	Solid	Moisture	
680-88811-19	CV0013AB-GS	Total/NA	Solid	Moisture	

## Lab Chronicle

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

**Client Sample ID: CV0509II-CS**

**Lab Sample ID: 680-88811-1**

Date Collected: 03/27/13 08:25

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 59.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136171	04/05/13 22:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

**Client Sample ID: CV0509JJ-CS**

**Lab Sample ID: 680-88811-2**

Date Collected: 03/27/13 08:33

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136171	04/05/13 23:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

**Client Sample ID: CV0509KK-CS**

**Lab Sample ID: 680-88811-3**

Date Collected: 03/27/13 08:45

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 13:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

**Client Sample ID: CV0509LL-CS**

**Lab Sample ID: 680-88811-4**

Date Collected: 03/27/13 08:54

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 44.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 20:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

**Client Sample ID: CV0509MM-CS**

**Lab Sample ID: 680-88811-5**

Date Collected: 03/27/13 08:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 21:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

## Client Sample ID: CV0509AO-GS

Lab Sample ID: 680-88811-6

Date Collected: 03/27/13 08:26

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 21:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0509AP-GS

Lab Sample ID: 680-88811-7

Date Collected: 03/27/13 08:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 61.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 21:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

## Client Sample ID: CV0283A-CS

Lab Sample ID: 680-88811-8

Date Collected: 03/27/13 09:30

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 53.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 22:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

## Client Sample ID: CV0283B-CS

Lab Sample ID: 680-88811-9

Date Collected: 03/27/13 09:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 70.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 22:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0283B-CSD

Lab Sample ID: 680-88811-10

Date Collected: 03/27/13 09:37

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 22:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

## Client Sample ID: CV0283C-CS

Lab Sample ID: 680-88811-11

Date Collected: 03/27/13 09:38

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 22:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0284A-CS

Lab Sample ID: 680-88811-12

Date Collected: 03/27/13 09:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136271	04/08/13 23:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

## Client Sample ID: CV0013A-CS

Lab Sample ID: 680-88811-13

Date Collected: 03/27/13 09:45

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 13:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

## Client Sample ID: CV0013B-CS

Lab Sample ID: 680-88811-14

Date Collected: 03/27/13 09:55

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136263	04/09/13 14:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0013C-CS

Lab Sample ID: 680-88811-15

Date Collected: 03/27/13 09:58

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 14:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135961	04/01/13 07:04	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88811-1  
 SDG: 68088811-1

## Client Sample ID: CV0013C-CSD

Lab Sample ID: 680-88811-16

Date Collected: 03/27/13 10:00

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136104	04/04/13 10:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136263	04/09/13 14:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0013D-CS

Lab Sample ID: 680-88811-17

Date Collected: 03/27/13 10:07

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 15:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

## Client Sample ID: CV0013E-CS

Lab Sample ID: 680-88811-18

Date Collected: 03/27/13 10:15

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 15:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV0013AB-GS

Lab Sample ID: 680-88811-19

Date Collected: 03/27/13 09:50

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 15:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135977	04/01/13 10:25	AG	TAL TAM

## Client Sample ID: CV1036A-CS

Lab Sample ID: 680-88811-20

Date Collected: 03/27/13 12:35

Matrix: Solid

Date Received: 03/29/13 09:45

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136127	04/04/13 13:28	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136271	04/08/13 16:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135964	04/01/13 08:16	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
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Alternate Laboratory Name/Location  
Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200548-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>4</i>
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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, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
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(b) (6)

(b) (6)

CLIENT NAME	CLIENT E-MAIL	CLIENT FAX	LL PAH	Metal PCBs	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
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COMPANY CONTACTING THIS WORK (if applicable)	PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12			
3-27-13	0825	CN0509 II-CS	C	X			X																
	0833	CN0509 JJ-CS	C	X			X																
	0845	CN0509 KK-CS	C	X			X																
	0854	CN0509 LL-CS	C	X			X																
	0850	CN0509 MM-CS	C	X			X																
	0826	CN0509 AO-GS	G	X			X																
	0835	CN0509 AP-GS	G	X			X																
	0930	CN0283A-CS	C	X			X																
	0935	CN0283B-CS	C	X			X																
	0937	<del>CN0283C-CS</del> CN0283B-CSD	C	X			X																
	0938	CN0283C-CS	C	X			X																
	0915	CN0284A-CS	C	X			X																

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RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-28-13</i>	TIME <i>12:00</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/29/13</i>	TIME <i>0945</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680 88811</i>	LABORATORY REMARKS <i>3.6</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>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, ...)	<i>LL PAH</i> <i>Merals RPA8</i>  <b>PRESERVATIVE</b>	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX			EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

(b) (6)

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable):	NUMBER OF CONTAINERS SUBMITTED	REMARKS

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME							1	2	3	4	
<i>3-27-13</i>	<i>0945</i>	<i>CV0013 A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0955</i>	<i>CV0013 B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0958</i>	<i>CV0013 C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1000</i>	<i>CV0013 D-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1007</i>	<i>CV0013 E-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1015</i>	<i>CV0013 F-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0950</i>	<i>CV0013 AB-GS</i>	<i>G</i>	<i>X</i>			<i>X</i>					
	<i>1235</i>	<i>CV1036A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1240</i>	<i>CV1036B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>1240</i>	<i>CV1039A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>				
	<i>1240</i>	<i>CV1039A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>				
	<i>1250</i>	<i>CV1039B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-28-13</i>	TIME <i>12:00</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/29/13</i>	TIME <i>0945</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88811</i>	LABORATORY REMARKS <i>3.6°</i>
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4/10/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

SDG Number: 68088811-1

**Login Number: 88811**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88811-1

SDG Number: 68088811-1

**Login Number: 88811**

**List Number: 1**

**Creator: Edwards, Erricka**

**List Source: TestAmerica Tampa**

**List Creation: 03/30/13 10:20 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 leg ble 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: 680-88811-1  
 SDG: 68088811-1

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
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

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

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

TestAmerica Job ID: 680-88811-1  
SDG: 68088811-1

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12