

**Data Validation Checklist  
Semivolatile Organic Analyses**

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

Project No: 15268508.20000  
 Job ID.: 680-88767-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/26/2013  
 Date: 04/10/2013  
 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?		✓		PAH were not detected during the analysis of rinsate blank 032613-RB-Shovel (680-88766-23).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

<sup>1</sup> Independent technical reviewer  
 URS Group, Inc.  
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## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (032613-RB-Shovel) was collected during the week of 03/25/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88766-2.	
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)		✓			
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> <li>CV0022A-CSD (680-88767-2) is a field duplicate of CV0022A-CS (680-88767-1).</li> <li>CV0509C-CSD (680-88767-11) is a field duplicate of CV0509C-CS (680-88767-10).</li> <li>CV0509K-CSD (680-88767-20) is a field duplicate of CV0509K-CS (680-88767-19).</li> </ul>	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment 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>Initial Calibration: 04/02/2013, instrument BSMC5973</li> <li>ICV: 04/02/2013 @ 15:34</li> <li>CCV: 04/03/2013 @ 11:45</li> <li>CCV: 04/04/2013 @ 11:50</li> </ul>	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>,</li> </ul> </li> </ul>		✓		ICV of 04/02/2013 @ 15:34, instrument BSMC5973: <ul style="list-style-type: none"> <li>Pyrene @ -21.4%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 78.5%R</li> <li>Chrysene @ -23.5%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 76.5%R</li> <li>Benzo(b)fluoranthene @ -21.1%D (Lab: <math>\leq 35</math>,</li> </ul>	J

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</p> <ul style="list-style-type: none"> <li>○ If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> <li>• ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and <math>RF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>○ If <math>\%D &gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>○ If <math>RF &lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatiles target compounds</li> </ul> </li> </ul>				<p>Project: <math>\leq 20</math>, 79%R</p> <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> </ul> <p>A negative bias is indicated by the ICV percent difference and the analytes were detected in all samples, therefore, J flag results for the above-mentioned analytes.</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 $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$ .	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects	✓				
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 136063: 680-88766-21 (Batch sample), MS/MSD</li> <li>• Prep Batch 136072: 680-88767-14 (CV0509F-CS), MS/MSD</li> </ul>	
24. Is the MS/MSD parent sample a project-specific sample?	✓	✓			
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD <math>\%R &lt; 10</math>: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD <math>\%R &gt; 10</math> and <math>&lt; \text{LCL}</math>: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD <math>R\% &gt; \text{UCL}</math> (or 140): J-Flag positive results</li> </ul>	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> </ul>	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result.</li> </ul>					
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If %R &gt;UCL, then J-flag positive results</li> <li>%R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>	✓				
29. 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>					



## Data Validation Checklist (Continued)

### 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

Job Number: 680-88767-1

Sdg Number: 68088767-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88767-1	CV0022A-CS	Solid	03/26/2013 0900	03/28/2013 0937
680-88767-2	CV0022A-CSD	Solid	03/26/2013 0900	03/28/2013 0937
680-88767-3	CV0509AB-GS	Solid	03/26/2013 0950	03/28/2013 0937
680-88767-4	CV0509AC-GS	Solid	03/26/2013 0952	03/28/2013 0937
680-88767-5	CV0509AD-GS	Solid	03/26/2013 0954	03/28/2013 0937
680-88767-6	CV0509AE-GS	Solid	03/26/2013 1024	03/28/2013 0937
680-88767-7	CV0509AF-GS	Solid	03/26/2013 1100	03/28/2013 0937
680-88767-8	CV0509A-CS	Solid	03/26/2013 0858	03/28/2013 0937
680-88767-9	CV0509B-CS	Solid	03/26/2013 0914	03/28/2013 0937
680-88767-10	CV0509C-CS	Solid	03/26/2013 0923	03/28/2013 0937
680-88767-11	CV0509C-CSD	Solid	03/26/2013 0925	03/28/2013 0937
680-88767-12	CV0509D-CS	Solid	03/26/2013 0938	03/28/2013 0937
680-88767-13	CV0509E-CS	Solid	03/26/2013 0945	03/28/2013 0937
680-88767-14	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-14MS	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-14MSD	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-15	CV0509G-CS	Solid	03/26/2013 0958	03/28/2013 0937
680-88767-16	CV0509H-CS	Solid	03/26/2013 1005	03/28/2013 0937
680-88767-17	CV0509I-CS	Solid	03/26/2013 1007	03/28/2013 0937
680-88767-18	CV0509J-CS	Solid	03/26/2013 1012	03/28/2013 0937
680-88767-19	CV0509K-CS	Solid	03/26/2013 1018	03/28/2013 0937
680-88767-20	CV0509K-CSD	Solid	03/26/2013 1020	03/28/2013 0937

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0022A-CS (680-88767-1)	RL	CV0022A-CSD (680-88767-2)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	70	J 170	80	J 160	µg/kg	825	NA	10	330	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	48	J 67	76	66	µg/kg	332.5	NA	28	133	None, absolute difference ≤ 2x Avg RL
Anthracene	150	14	290	14	µg/kg	70	64	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	520	13	890	13	µg/kg	65	52	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	460	17	780	17	µg/kg	85	52	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	720	20	1400	20	µg/kg	100	64	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	270	33	530	33	µg/kg	165	65	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	340	13	460	13	µg/kg	65	30	NA	NA	None, RPD ≤ 50%
Chrysene	600	15	820	15	µg/kg	75	31	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	94	33	140	33	µg/kg	165	NA	46	66	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1000	33	1800	33	µg/kg	165	57	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	40	33	110	33	µg/kg	165	NA	70	66	J/UJ-flag, absolute difference > 2x Avg RL
Indeno(1,2,3-cd)pyrene	280	33	500	33	µg/kg	165	56	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	120	67	230	66	µg/kg	332.5	NA	110	133	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	140	67	240	66	µg/kg	332.5	NA	100	133	None, absolute difference ≤ 2x Avg RL
Naphthalene	180	67	240	66	µg/kg	332.5	NA	60	133	None, absolute difference ≤ 2x Avg RL
Phenanthrene	680	13	1300	13	µg/kg	65	63	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	950	33	1400	33	µg/kg	165	38	NA	NA	None, RPD ≤ 50%

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

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	CV0509C-CS (680-88767-10)	RL	CV0509C-CSD (680-88767-11)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	65	49	64	62	µg/kg	277.5	NA	1	111	None, absolute difference ≤ 2x Avg RL
Anthracene	98	10	74	13	µg/kg	57.5	28	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	460	9.7	350	12	µg/kg	54.25	27	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	380	13	260	16	µg/kg	72.5	38	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	760	15	500	19	µg/kg	85	41	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	310	24	190	31	µg/kg	137.5	48	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	270	9.7	190	12	µg/kg	54.25	35	NA	NA	None, RPD ≤ 50%
Chrysene	580	11	380	14	µg/kg	62.5	42	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	120	24	58	31	µg/kg	137.5	NA	62	55	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	660	24	600	31	µg/kg	137.5	10	NA	NA	None, RPD ≤ 50%
Fluorene	33	24	29	J 31	µg/kg	137.5	NA	4	55	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	230	24	180	31	µg/kg	137.5	24	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	140	49	67	62	µg/kg	277.5	NA	73	111	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	160	49	99	62	µg/kg	277.5	NA	61	111	None, absolute difference ≤ 2x Avg RL
Naphthalene	120	49	78	62	µg/kg	277.5	NA	42	111	None, absolute difference ≤ 2x Avg RL
Phenanthrene	430	9.7	310	12	µg/kg	54.25	32	NA	NA	None, RPD ≤ 50%
Pyrene	550	24	490	31	µg/kg	137.5	12	NA	NA	None, RPD ≤ 50%

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

Analyte	CV0509K-CS (680-88767-19)	RL	CV0509K-CSD (680-88767-20)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		140	68 J	140	µg/kg	700	NA	68	280	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	11 J	55	13	57	µg/kg	280	NA	2	112	None, absolute difference ≤ 2x Avg RL
Anthracene	68	12	120	12	µg/kg	60	55	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	370	11	340	11	µg/kg	55	8	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	250	14	250	15	µg/kg	72.5	0	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	410	17	380	17	µg/kg	85	8	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	170	28	170	28	µg/kg	140	0	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	220	11	200	11	µg/kg	55	10	NA	NA	None, RPD ≤ 50%
Chrysene	380	12	300	13	µg/kg	62.5	24	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	60	28	51	28	µg/kg	140	NA	9	56	None, absolute difference ≤ 2x Avg RL
Fluoranthene	740	28	790	28	µg/kg	140	7	NA	NA	None, RPD ≤ 50%
Fluorene	31	28	64	28	µg/kg	140	NA	33	56	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	190	28	160	28	µg/kg	140	17	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	35	55	36	57	µg/kg	280	NA	1	112	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	33	55	37	57	µg/kg	280	NA	4	112	None, absolute difference ≤ 2x Avg RL
Naphthalene	49	55	56	57	µg/kg	280	NA	7	112	None, absolute difference ≤ 2x Avg RL
Phenanthrene	310	11	570	11	µg/kg	55	59	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	630	28	590	28	µg/kg	140	7	NA	NA	None, RPD ≤ 50%

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: 35th Avenue Superfund Site**

**Report Number: 680-88767-1**

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 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0022A-CS (680-88767-1), CV0022A-CSD (680-88767-2), CV0509AB-GS (680-88767-3), CV0509AC-GS (680-88767-4), CV0509AD-GS (680-88767-5), CV0509AE-GS (680-88767-6), CV0509AF-GS (680-88767-7), CV0509A-CS (680-88767-8), CV0509B-CS (680-88767-9), CV0509C-CS (680-88767-10), CV0509C-CSD (680-88767-11), CV0509D-CS (680-88767-12), CV0509E-CS (680-88767-13), CV0509F-CS (680-88767-14), CV0509G-CS (680-88767-15), CV0509H-CS (680-88767-16), CV0509I-CS (680-88767-17), CV0509J-CS (680-88767-18), CV0509K-CS (680-88767-19) and CV0509K-CSD (680-88767-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and 04/03/2013 and analyzed on 04/03/2013 and 04/04/2013.

Samples CV0509AB-GS (680-88767-3)[4X], CV0509D-CS (680-88767-12)[4X], CV0509E-CS (680-88767-13)[4X] and CV0509H-CS (680-88767-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

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



## Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0022A-CS**

**Lab Sample ID: 680-88767-1**

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 58.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	70	J	170	33	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Acenaphthylene	48	J	67	8.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Anthracene	150	J	14	7.0	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Benzo[a]anthracene	520	J	13	6.5	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Benzo[a]pyrene	460	J	17	8.7	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Benzo[b]fluoranthene	720	J	20	10	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Benzo[g,h,i]perylene	270	J	33	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Benzo[k]fluoranthene	340	J	13	6.0	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Chrysene	600	J	15	7.5	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Dibenz(a,h)anthracene	94	J	33	6.8	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Fluoranthene	1000	J	33	6.7	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Fluorene	40	J	33	6.8	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Indeno[1,2,3-cd]pyrene	280	J	33	12	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
1-Methylnaphthalene	120	J	67	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
2-Methylnaphthalene	140	J	67	12	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Naphthalene	180	J	67	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Phenanthrene	680	J	13	6.5	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
Pyrene	950	J	33	6.2	ug/Kg	☐	04/02/13 11:33	04/03/13 18:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	61		30 - 130				04/02/13 11:33	04/03/13 18:37	1

**Client Sample ID: CV0022A-CSD**

**Lab Sample ID: 680-88767-2**

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 60.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	80	J	160	33	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Acenaphthylene	76	J	66	8.2	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Anthracene	290	J	14	6.9	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Benzo[a]anthracene	890	J	13	6.4	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Benzo[a]pyrene	780	J	17	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Benzo[b]fluoranthene	1400	J	20	10	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Benzo[g,h,i]perylene	530	J	33	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Benzo[k]fluoranthene	460	J	13	5.9	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Chrysene	820	J	15	7.4	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Dibenz(a,h)anthracene	140	J	33	6.8	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Fluoranthene	1800	J	33	6.6	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Fluorene	110	J	33	6.8	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Indeno[1,2,3-cd]pyrene	500	J	33	12	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
1-Methylnaphthalene	230	J	66	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
2-Methylnaphthalene	240	J	66	12	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Naphthalene	240	J	66	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Phenanthrene	1300	J	13	6.4	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
Pyrene	1400	J	33	6.1	ug/Kg	☐	04/02/13 11:33	04/03/13 18:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	70		30 - 130				04/02/13 11:33	04/03/13 18:55	1

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AB-GS**

**Lab Sample ID: 680-88767-3**

Date Collected: 03/26/13 09:50

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 73.9

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	☐	04/02/13 11:33	04/03/13 19:13	4	
Acenaphthylene	56	J	220	27	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Anthracene	190	J	46	23	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Benzo[a]anthracene	600		43	21	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Benzo[a]pyrene	440	J	56	28	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Benzo[b]fluoranthene	760	J	66	33	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Benzo[g,h,i]perylene	290		110	24	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Benzo[k]fluoranthene	260		43	20	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Chrysene	720	J	49	24	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Dibenz(a,h)anthracene	130		110	22	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Fluoranthene	1200		110	22	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Fluorene	150		110	22	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Indeno[1,2,3-cd]pyrene	270		110	39	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
1-Methylnaphthalene	150	J	220	24	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
2-Methylnaphthalene	140	J	220	39	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Naphthalene	140	J	220	24	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Phenanthrene	900		43	21	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	4	
Pyrene	980	J	110	20	ug/Kg	☐	04/02/13 11:33	04/03/13 19:13	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	80		30 - 130				04/02/13 11:33	04/03/13 19:13	4	

**Client Sample ID: CV0509AC-GS**

**Lab Sample ID: 680-88767-4**

Date Collected: 03/26/13 09:52

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 77.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	68	J	130	26	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Acenaphthylene	40	J	53	6.6	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Anthracene	170	J	11	5.6	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Benzo[a]anthracene	710		11	5.2	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Benzo[a]pyrene	600	J	14	6.9	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Benzo[b]fluoranthene	1000	J	16	8.1	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Benzo[g,h,i]perylene	430		26	5.8	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Benzo[k]fluoranthene	350		11	4.8	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Chrysene	660	J	12	6.0	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Dibenz(a,h)anthracene	110		26	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Fluoranthene	1400		26	5.3	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Fluorene	74		26	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Indeno[1,2,3-cd]pyrene	360		26	9.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
1-Methylnaphthalene	120		53	5.8	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
2-Methylnaphthalene	150		53	9.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Naphthalene	130		53	5.8	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Phenanthrene	880		11	5.2	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	1	
Pyrene	1100	J	26	4.9	ug/Kg	☐	04/02/13 11:33	04/03/13 19:32	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	69		30 - 130				04/02/13 11:33	04/03/13 19:32	1	

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AD-GS**

**Lab Sample ID: 680-88767-5**

Date Collected: 03/26/13 09:54

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Acenaphthylene	6.2	J	49	6.1	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Anthracene	25	J	10	5.1	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Benzo[a]anthracene	130		9.7	4.7	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Benzo[a]pyrene	86	J	13	6.3	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Benzo[b]fluoranthene	180	J	15	7.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Benzo[g,h,i]perylene	100		24	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Benzo[k]fluoranthene	41		9.7	4.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Chrysene	180	J	11	5.5	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Dibenz(a,h)anthracene	30		24	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Fluoranthene	180		24	4.9	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Fluorene	44		24	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Indeno[1,2,3-cd]pyrene	76		24	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
1-Methylnaphthalene	170		49	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
2-Methylnaphthalene	250		49	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Naphthalene	66		49	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Phenanthrene	260		9.7	4.7	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
Pyrene	170	J	24	4.5	ug/Kg	☐	04/02/13 11:33	04/03/13 19:50	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	74		30 - 130				04/02/13 11:33	04/03/13 19:50	1

**Client Sample ID: CV0509AE-GS**

**Lab Sample ID: 680-88767-6**

Date Collected: 03/26/13 10:24

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 72.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	29	J	140	28	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Acenaphthylene	56	U	56	7.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Anthracene	54	J	12	5.9	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Benzo[a]anthracene	150		11	5.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Benzo[a]pyrene	86	J	15	7.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Benzo[b]fluoranthene	240	J	17	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Benzo[g,h,i]perylene	110		28	6.2	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Benzo[k]fluoranthene	76		11	5.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Chrysene	220	J	13	6.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Dibenz(a,h)anthracene	34		28	5.8	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Fluoranthene	410		28	5.6	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Fluorene	45		28	5.8	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Indeno[1,2,3-cd]pyrene	83		28	10	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
1-Methylnaphthalene	68		56	6.2	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
2-Methylnaphthalene	75		56	10	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Naphthalene	100		56	6.2	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Phenanthrene	340		11	5.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
Pyrene	330	J	28	5.2	ug/Kg	☐	04/02/13 11:33	04/03/13 20:08	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	67		30 - 130				04/02/13 11:33	04/03/13 20:08	1

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AF-GS**

**Lab Sample ID: 680-88767-7**

Date Collected: 03/26/13 11:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	39	J	120	24	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Acenaphthylene	120		48	6.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Anthracene	220	J	10	5.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Benzo[a]anthracene	740		9.7	4.7	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Benzo[a]pyrene	700	J	13	6.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Benzo[b]fluoranthene	1300	J	15	7.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Benzo[g,h,i]perylene	530		24	5.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Benzo[k]fluoranthene	530		9.7	4.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Chrysene	780	J	11	5.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Dibenz(a,h)anthracene	190		24	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Fluoranthene	1200		24	4.8	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Fluorene	52		24	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Indeno[1,2,3-cd]pyrene	510		24	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
1-Methylnaphthalene	160		48	5.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
2-Methylnaphthalene	190		48	8.6	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Naphthalene	170		48	5.3	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Phenanthrene	740		9.7	4.7	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
Pyrene	1200	J	24	4.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	73		30 - 130				04/02/13 11:33	04/03/13 20:27	1

**Client Sample ID: CV0509A-CS**

**Lab Sample ID: 680-88767-8**

Date Collected: 03/26/13 08:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Acenaphthylene	32	J	49	6.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Anthracene	83	J	10	5.1	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Benzo[a]anthracene	430		9.8	4.8	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Benzo[a]pyrene	410	J	13	6.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Benzo[b]fluoranthene	700	J	15	7.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Benzo[g,h,i]perylene	340		25	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Benzo[k]fluoranthene	210		9.8	4.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Chrysene	450	J	11	5.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Dibenz(a,h)anthracene	99		25	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Fluoranthene	730		25	4.9	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Fluorene	40		25	5.0	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Indeno[1,2,3-cd]pyrene	230		25	8.7	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
1-Methylnaphthalene	95		49	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
2-Methylnaphthalene	110		49	8.7	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Naphthalene	79		49	5.4	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Phenanthrene	450		9.8	4.8	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	1
Pyrene	630	J	25	4.5	ug/Kg	☐	04/02/13 11:33	04/03/13 20:45	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	75		30 - 130				04/02/13 11:33	04/03/13 20:45	1

TestAmerica Savannah

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



## Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509B-CS**

**Lab Sample ID: 680-88767-9**

Date Collected: 03/26/13 09:14

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Acenaphthylene	13	J	55	6.9	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Anthracene	54	J	12	5.8	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Benzo[a]anthracene	200		11	5.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Benzo[a]pyrene	160	J	14	7.2	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Benzo[b]fluoranthene	340	J	17	8.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Benzo[g,h,i]perylene	160		28	6.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Benzo[k]fluoranthene	100		11	5.0	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Chrysene	280	J	12	6.2	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Dibenz(a,h)anthracene	56		28	5.7	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Fluoranthene	340		28	5.5	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Fluorene	27	J	28	5.7	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Indeno[1,2,3-cd]pyrene	160		28	9.8	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
1-Methylnaphthalene	44	J	55	6.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
2-Methylnaphthalene	64		55	9.8	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Naphthalene	70		55	6.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Phenanthrene	260		11	5.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
Pyrene	300	J	28	5.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	71		30 - 130				04/02/13 11:33	04/03/13 21:03	1

**Client Sample ID: CV0509C-CS**

**Lab Sample ID: 680-88767-10**

Date Collected: 03/26/13 09:23

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 83.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Acenaphthylene	65		49	6.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Anthracene	98	J	10	5.1	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Benzo[a]anthracene	460		9.7	4.7	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Benzo[a]pyrene	380	J	13	6.3	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Benzo[b]fluoranthene	760	J	15	7.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Benzo[g,h,i]perylene	310		24	5.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Benzo[k]fluoranthene	270		9.7	4.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Chrysene	580	J	11	5.5	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Dibenz(a,h)anthracene	120	J	24	5.0	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Fluoranthene	660		24	4.9	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Fluorene	33		24	5.0	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Indeno[1,2,3-cd]pyrene	230		24	8.6	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
1-Methylnaphthalene	140		49	5.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
2-Methylnaphthalene	160		49	8.6	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Naphthalene	120		49	5.4	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Phenanthrene	430		9.7	4.7	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
Pyrene	550	J	24	4.5	ug/Kg	☉	04/02/13 11:33	04/03/13 21:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/02/13 11:33	04/03/13 21:21	1

TestAmerica Savannah



## Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509C-CSD**

**Lab Sample ID: 680-88767-11**

Date Collected: 03/26/13 09:25

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 64.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Acenaphthylene	64		62	7.8	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Anthracene	74	J	13	6.5	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Benzo[a]anthracene	350		12	6.1	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Benzo[a]pyrene	260	J	16	8.1	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Benzo[b]fluoranthene	500	J	19	9.5	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Benzo[g,h,i]perylene	190		31	6.9	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Benzo[k]fluoranthene	190		12	5.6	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Chrysene	380	J	14	7.0	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Dibenz(a,h)anthracene	58	J	31	6.4	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Fluoranthene	600		31	6.2	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Fluorene	29	J	31	6.4	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Indeno[1,2,3-cd]pyrene	180		31	11	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
1-Methylnaphthalene	67		62	6.9	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
2-Methylnaphthalene	99		62	11	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Naphthalene	78		62	6.9	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Phenanthrene	310		12	6.1	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	1
Pyrene	490	J	31	5.8	ug/Kg	☐	04/03/13 11:18	04/04/13 17:38	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	61		30 - 130				04/03/13 11:18	04/04/13 17:38	1

**Client Sample ID: CV0509D-CS**

**Lab Sample ID: 680-88767-12**

Date Collected: 03/26/13 09:38

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 66.1

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	☐	04/03/13 11:18	04/04/13 17:57	4
Acenaphthylene	240	U	240	30	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Anthracene	68	J	50	25	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Benzo[a]anthracene	450		47	23	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Benzo[a]pyrene	330	J	61	31	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Benzo[b]fluoranthene	530	J	72	36	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Benzo[g,h,i]perylene	230		120	26	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Benzo[k]fluoranthene	120		47	21	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Chrysene	360	J	53	27	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Dibenz(a,h)anthracene	62	J	120	24	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Fluoranthene	570		120	24	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Fluorene	120	U	120	24	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Indeno[1,2,3-cd]pyrene	180		120	42	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
1-Methylnaphthalene	190	J	240	26	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
2-Methylnaphthalene	330		240	42	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Naphthalene	140	J	240	26	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Phenanthrene	300		47	23	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	4
Pyrene	470	J	120	22	ug/Kg	☐	04/03/13 11:18	04/04/13 17:57	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	100		30 - 130				04/03/13 11:18	04/04/13 17:57	4

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509E-CS**

**Lab Sample ID: 680-88767-13**

Date Collected: 03/26/13 09:45

Matrix: Solid

Date Received: 03/28/13 09:37

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	130	J	500	100	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Acenaphthylene	50	J	200	25	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Anthracene	360	J	42	21	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Benzo[a]anthracene	1200	J	40	20	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Benzo[a]pyrene	830	J	52	26	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Benzo[b]fluoranthene	1400	J	61	31	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Benzo[g,h,i]perylene	580	J	100	22	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Benzo[k]fluoranthene	590	J	40	18	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Chrysene	1100	J	45	23	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Dibenz(a,h)anthracene	180	J	100	21	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Fluoranthene	2600	J	100	20	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Fluorene	140	J	100	21	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Indeno[1,2,3-cd]pyrene	550	J	100	36	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
1-Methylnaphthalene	91	J	200	22	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
2-Methylnaphthalene	110	J	200	36	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Naphthalene	120	J	200	22	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Phenanthrene	1600	J	40	20	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	4
Pyrene	2000	J	100	19	ug/Kg	☐	04/03/13 11:18	04/04/13 18:15	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	107		30 - 130				04/03/13 11:18	04/04/13 18:15	4

**Client Sample ID: CV0509F-CS**

**Lab Sample ID: 680-88767-14**

Date Collected: 03/26/13 09:55

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Acenaphthylene	15	J	50	6.3	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Anthracene	41	J	11	5.3	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Benzo[a]anthracene	200	J	10	4.9	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Benzo[a]pyrene	180	J	13	6.6	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Benzo[b]fluoranthene	300	J	15	7.7	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Benzo[g,h,i]perylene	130	J	25	5.5	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Benzo[k]fluoranthene	110	J	10	4.5	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Chrysene	210	J	11	5.7	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Dibenz(a,h)anthracene	44	J	25	5.2	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Fluoranthene	350	J	25	5.0	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Fluorene	19	J	25	5.2	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Indeno[1,2,3-cd]pyrene	120	J	25	9.0	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
1-Methylnaphthalene	37	J	50	5.5	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
2-Methylnaphthalene	50	J	50	9.0	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Naphthalene	45	J	50	5.5	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Phenanthrene	230	J	10	4.9	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
Pyrene	320	J	25	4.7	ug/Kg	☐	04/03/13 11:18	04/04/13 18:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	77		30 - 130				04/03/13 11:18	04/04/13 18:34	1

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509G-CS**

**Lab Sample ID: 680-88767-15**

Date Collected: 03/26/13 09:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Acenaphthylene	18	J	57	7.1	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Anthracene	28	J	12	6.0	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Benzo[a]anthracene	200	J	11	5.6	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Benzo[a]pyrene	130	J	15	7.4	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Benzo[b]fluoranthene	180	J	17	8.7	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Benzo[g,h,i]perylene	85	J	28	6.3	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Benzo[k]fluoranthene	86	J	11	5.1	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Chrysene	190	J	13	6.4	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Dibenz(a,h)anthracene	28	J	28	5.8	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Fluoranthene	180	J	28	5.7	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Fluorene	8.3	J	28	5.8	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Indeno[1,2,3-cd]pyrene	87	J	28	10	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
1-Methylnaphthalene	20	J	57	6.3	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
2-Methylnaphthalene	23	J	57	10	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Naphthalene	37	J	57	6.3	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Phenanthrene	77	J	11	5.6	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
Pyrene	190	J	28	5.3	ug/Kg	☉	04/03/13 11:18	04/04/13 19:29	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	57		30 - 130				04/03/13 11:18	04/04/13 19:29	1

**Client Sample ID: CV0509H-CS**

**Lab Sample ID: 680-88767-16**

Date Collected: 03/26/13 10:05

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	490	98	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Acenaphthylene	79	J	200	25	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Anthracene	280	J	41	21	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Benzo[a]anthracene	1100	J	39	19	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Benzo[a]pyrene	840	J	51	26	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Benzo[b]fluoranthene	1400	J	60	30	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Benzo[g,h,i]perylene	570	J	98	22	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Benzo[k]fluoranthene	510	J	39	18	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Chrysene	990	J	44	22	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Dibenz(a,h)anthracene	120	J	98	20	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Fluoranthene	1900	J	98	20	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Fluorene	120	J	98	20	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Indeno[1,2,3-cd]pyrene	560	J	98	35	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
1-Methylnaphthalene	140	J	200	22	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
2-Methylnaphthalene	150	J	200	35	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Naphthalene	210	J	200	22	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Phenanthrene	1400	J	39	19	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
Pyrene	1500	J	98	18	ug/Kg	☉	04/03/13 11:18	04/04/13 19:47	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	107		30 - 130				04/03/13 11:18	04/04/13 19:47	4

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509I-CS**

**Lab Sample ID: 680-88767-17**

Date Collected: 03/26/13 10:07

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 59.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Acenaphthylene	9.8	J	66	8.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Anthracene	22	J	14	7.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Benzo[a]anthracene	82	J	13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Benzo[a]pyrene	65	J	17	8.6	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Benzo[b]fluoranthene	110	J	20	10	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Benzo[g,h,i]perylene	46	J	33	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Benzo[k]fluoranthene	23	J	13	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Chrysene	99	J	15	7.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Dibenz(a,h)anthracene	18	J	33	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Fluoranthene	140	J	33	6.6	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Fluorene	17	J	33	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Indeno[1,2,3-cd]pyrene	41	J	33	12	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
1-Methylnaphthalene	67	J	66	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
2-Methylnaphthalene	76	J	66	12	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Naphthalene	64	J	66	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Phenanthrene	100	J	13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
Pyrene	120	J	33	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	74		30 - 130				04/03/13 11:18	04/04/13 20:05	1

**Client Sample ID: CV0509J-CS**

**Lab Sample ID: 680-88767-18**

Date Collected: 03/26/13 10:12

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 65.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Acenaphthylene	8.4	J	61	7.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Anthracene	38	J	13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Benzo[a]anthracene	150	J	12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Benzo[a]pyrene	100	J	16	8.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Benzo[b]fluoranthene	180	J	19	9.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Benzo[g,h,i]perylene	77	J	31	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Benzo[k]fluoranthene	54	J	12	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Chrysene	130	J	14	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Dibenz(a,h)anthracene	26	J	31	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Fluoranthene	310	J	31	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Fluorene	19	J	31	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Indeno[1,2,3-cd]pyrene	62	J	31	11	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
1-Methylnaphthalene	21	J	61	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
2-Methylnaphthalene	28	J	61	11	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Naphthalene	42	J	61	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Phenanthrene	190	J	12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
Pyrene	220	J	31	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	71		30 - 130				04/03/13 11:18	04/04/13 20:24	1

TestAmerica Savannah

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



# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509K-CS**

**Lab Sample ID: 680-88767-19**

Date Collected: 03/26/13 10:18

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	140	U	140	28	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Acenaphthylene	11	J	55	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Anthracene	68	J	12	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Benzo[a]anthracene	370	J	11	5.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Benzo[a]pyrene	250	J	14	7.2	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Benzo[b]fluoranthene	410	J	17	8.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Benzo[g,h,i]perylene	170	J	28	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Benzo[k]fluoranthene	220	J	11	5.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Chrysene	380	J	12	6.2	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Dibenz(a,h)anthracene	60	J	28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Fluoranthene	740	J	28	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Fluorene	31	J	28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Indeno[1,2,3-cd]pyrene	190	J	28	9.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
1-Methylnaphthalene	35	J	55	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
2-Methylnaphthalene	33	J	55	9.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Naphthalene	49	J	55	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Phenanthrene	310	J	11	5.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
Pyrene	630	J	28	5.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>	
<i>o-Terphenyl</i>	68		30 - 130				04/03/13 11:18	04/04/13 20:42	1	

**Client Sample ID: CV0509K-CSD**

**Lab Sample ID: 680-88767-20**

Date Collected: 03/26/13 10:20

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 69.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	68	J	140	28	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Acenaphthylene	13	J	57	7.1	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Anthracene	120	J	12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Benzo[a]anthracene	340	J	11	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Benzo[a]pyrene	250	J	15	7.4	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Benzo[b]fluoranthene	380	J	17	8.7	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Benzo[g,h,i]perylene	170	J	28	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Benzo[k]fluoranthene	200	J	11	5.1	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Chrysene	300	J	13	6.4	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Dibenz(a,h)anthracene	51	J	28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Fluoranthene	790	J	28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Fluorene	64	J	28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Indeno[1,2,3-cd]pyrene	160	J	28	10	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
1-Methylnaphthalene	36	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
2-Methylnaphthalene	37	J	57	10	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Naphthalene	56	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Phenanthrene	570	J	11	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
Pyrene	590	J	28	5.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>	
<i>o-Terphenyl</i>	69		30 - 130				04/03/13 11:18	04/04/13 21:00	1	

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



## ANALYTICAL REPORT

Job Number: 680-88767-1

SDG Number: 68088767-1

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  
4/9/2013 3:18 PM

---

Designee for

Lisa Harvey

Project Manager II

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

04/09/2013

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: 680-88767-1**

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 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0022A-CS (680-88767-1), CV0022A-CSD (680-88767-2), CV0509AB-GS (680-88767-3), CV0509AC-GS (680-88767-4), CV0509AD-GS (680-88767-5), CV0509AE-GS (680-88767-6), CV0509AF-GS (680-88767-7), CV0509A-CS (680-88767-8), CV0509B-CS (680-88767-9), CV0509C-CS (680-88767-10), CV0509C-CSD (680-88767-11), CV0509D-CS (680-88767-12), CV0509E-CS (680-88767-13), CV0509F-CS (680-88767-14), CV0509G-CS (680-88767-15), CV0509H-CS (680-88767-16), CV0509I-CS (680-88767-17), CV0509J-CS (680-88767-18), CV0509K-CS (680-88767-19) and CV0509K-CSD (680-88767-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and 04/03/2013 and analyzed on 04/03/2013 and 04/04/2013.

Samples CV0509AB-GS (680-88767-3)[4X], CV0509D-CS (680-88767-12)[4X], CV0509E-CS (680-88767-13)[4X] and CV0509H-CS (680-88767-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

Sdg Number: 68088767-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88767-1	CV0022A-CS	Solid	03/26/2013 0900	03/28/2013 0937
680-88767-2	CV0022A-CSD	Solid	03/26/2013 0900	03/28/2013 0937
680-88767-3	CV0509AB-GS	Solid	03/26/2013 0950	03/28/2013 0937
680-88767-4	CV0509AC-GS	Solid	03/26/2013 0952	03/28/2013 0937
680-88767-5	CV0509AD-GS	Solid	03/26/2013 0954	03/28/2013 0937
680-88767-6	CV0509AE-GS	Solid	03/26/2013 1024	03/28/2013 0937
680-88767-7	CV0509AF-GS	Solid	03/26/2013 1100	03/28/2013 0937
680-88767-8	CV0509A-CS	Solid	03/26/2013 0858	03/28/2013 0937
680-88767-9	CV0509B-CS	Solid	03/26/2013 0914	03/28/2013 0937
680-88767-10	CV0509C-CS	Solid	03/26/2013 0923	03/28/2013 0937
680-88767-11	CV0509C-CSD	Solid	03/26/2013 0925	03/28/2013 0937
680-88767-12	CV0509D-CS	Solid	03/26/2013 0938	03/28/2013 0937
680-88767-13	CV0509E-CS	Solid	03/26/2013 0945	03/28/2013 0937
680-88767-14	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-14MS	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-14MSD	CV0509F-CS	Solid	03/26/2013 0955	03/28/2013 0937
680-88767-15	CV0509G-CS	Solid	03/26/2013 0958	03/28/2013 0937
680-88767-16	CV0509H-CS	Solid	03/26/2013 1005	03/28/2013 0937
680-88767-17	CV0509I-CS	Solid	03/26/2013 1007	03/28/2013 0937
680-88767-18	CV0509J-CS	Solid	03/26/2013 1012	03/28/2013 0937
680-88767-19	CV0509K-CS	Solid	03/26/2013 1018	03/28/2013 0937
680-88767-20	CV0509K-CSD	Solid	03/26/2013 1020	03/28/2013 0937

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1  
Sdg Number: 68088767-1

<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: 680-88767-1

Sdg Number: 68088767-1

<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: 680-88767-1

Sdg Number: 68088767-1

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



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

Sdg Number: 68088767-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-136063</b>					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136063/1-A	Method Blank	T	Solid	3546	
680-88766-A-21-E MS	Matrix Spike	T	Solid	3546	
680-88766-A-21-F MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88767-1	CV0022A-CS	T	Solid	3546	
680-88767-2	CV0022A-CSD	T	Solid	3546	
680-88767-3	CV0509AB-GS	T	Solid	3546	
680-88767-4	CV0509AC-GS	T	Solid	3546	
680-88767-5	CV0509AD-GS	T	Solid	3546	
680-88767-6	CV0509AE-GS	T	Solid	3546	
680-88767-7	CV0509AF-GS	T	Solid	3546	
680-88767-8	CV0509A-CS	T	Solid	3546	
680-88767-9	CV0509B-CS	T	Solid	3546	
680-88767-10	CV0509C-CS	T	Solid	3546	
<b>Prep Batch: 660-136072</b>					
LCS 660-136072/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136072/1-A	Method Blank	T	Solid	3546	
680-88767-11	CV0509C-CSD	T	Solid	3546	
680-88767-12	CV0509D-CS	T	Solid	3546	
680-88767-13	CV0509E-CS	T	Solid	3546	
680-88767-14	CV0509F-CS	T	Solid	3546	
680-88767-14MS	Matrix Spike	T	Solid	3546	
680-88767-14MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88767-15	CV0509G-CS	T	Solid	3546	
680-88767-16	CV0509H-CS	T	Solid	3546	
680-88767-17	CV0509I-CS	T	Solid	3546	
680-88767-18	CV0509J-CS	T	Solid	3546	
680-88767-19	CV0509K-CS	T	Solid	3546	
680-88767-20	CV0509K-CSD	T	Solid	3546	

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

Sdg Number: 68088767-1

### 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:660-136081</b>					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	8270C LL	660-136063
MB 660-136063/1-A	Method Blank	T	Solid	8270C LL	660-136063
680-88766-A-21-E MS	Matrix Spike	T	Solid	8270C LL	660-136063
680-88766-A-21-F MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136063
680-88767-1	CV0022A-CS	T	Solid	8270C LL	660-136063
680-88767-2	CV0022A-CSD	T	Solid	8270C LL	660-136063
680-88767-3	CV0509AB-GS	T	Solid	8270C LL	660-136063
680-88767-4	CV0509AC-GS	T	Solid	8270C LL	660-136063
680-88767-5	CV0509AD-GS	T	Solid	8270C LL	660-136063
680-88767-6	CV0509AE-GS	T	Solid	8270C LL	660-136063
680-88767-7	CV0509AF-GS	T	Solid	8270C LL	660-136063
680-88767-8	CV0509A-CS	T	Solid	8270C LL	660-136063
680-88767-9	CV0509B-CS	T	Solid	8270C LL	660-136063
680-88767-10	CV0509C-CS	T	Solid	8270C LL	660-136063
<b>Analysis Batch:660-136131</b>					
LCS 660-136072/2-A	Lab Control Sample	T	Solid	8270C LL	660-136072
MB 660-136072/1-A	Method Blank	T	Solid	8270C LL	660-136072
680-88767-11	CV0509C-CSD	T	Solid	8270C LL	660-136072
680-88767-12	CV0509D-CS	T	Solid	8270C LL	660-136072
680-88767-13	CV0509E-CS	T	Solid	8270C LL	660-136072
680-88767-14	CV0509F-CS	T	Solid	8270C LL	660-136072
680-88767-14MS	Matrix Spike	T	Solid	8270C LL	660-136072
680-88767-14MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136072
680-88767-15	CV0509G-CS	T	Solid	8270C LL	660-136072
680-88767-16	CV0509H-CS	T	Solid	8270C LL	660-136072
680-88767-17	CV0509I-CS	T	Solid	8270C LL	660-136072
680-88767-18	CV0509J-CS	T	Solid	8270C LL	660-136072
680-88767-19	CV0509K-CS	T	Solid	8270C LL	660-136072
680-88767-20	CV0509K-CSD	T	Solid	8270C LL	660-136072

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

Sdg Number: 68088767-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135922</b>					
680-88767-1	CV0022A-CS	T	Solid	Moisture	
680-88767-2	CV0022A-CSD	T	Solid	Moisture	
680-88767-3	CV0509AB-GS	T	Solid	Moisture	
680-88767-4	CV0509AC-GS	T	Solid	Moisture	
680-88767-5	CV0509AD-GS	T	Solid	Moisture	
680-88767-6	CV0509AE-GS	T	Solid	Moisture	
680-88767-7	CV0509AF-GS	T	Solid	Moisture	
680-88767-8	CV0509A-CS	T	Solid	Moisture	
680-88767-9	CV0509B-CS	T	Solid	Moisture	
680-88767-10	CV0509C-CS	T	Solid	Moisture	
680-88767-11	CV0509C-CSD	T	Solid	Moisture	
680-88767-12	CV0509D-CS	T	Solid	Moisture	
680-88767-13	CV0509E-CS	T	Solid	Moisture	
680-88767-A-14 MSMS	Matrix Spike	T	Solid	Moisture	
680-88767-A-14 MSDMSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88767-14	CV0509F-CS	T	Solid	Moisture	
680-88767-15	CV0509G-CS	T	Solid	Moisture	
680-88767-16	CV0509H-CS	T	Solid	Moisture	
680-88767-17	CV0509I-CS	T	Solid	Moisture	
680-88767-18	CV0509J-CS	T	Solid	Moisture	
680-88767-19	CV0509K-CS	T	Solid	Moisture	
680-88767-20	CV0509K-CSD	T	Solid	Moisture	
680-88767-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88767-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88767-A-41 MS	Matrix Spike	T	Solid	Moisture	
680-88767-A-41 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument 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: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/

Lab Sample ID: IC 660-136048/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-136048/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-136048/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: \_\_\_\_\_

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

Lab Sample ID: ICIS 660-136048/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-136048/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-136048/11 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: \_\_\_\_\_

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

DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1

SDG No.: 68088767-1

Instrument ID: BSMC5973 Analysis Batch Number: 136048

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

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: \_\_\_\_\_

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

DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136081Lab Sample ID: CCVIS 660-136081/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/03/13 11:45 Lab File ID: 1CD03003.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/

Lab Sample ID: LCS 660-136063/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/03/13 15:52 Lab File ID: 1CD03016.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/

Lab Sample ID: 680-88766-A-21-E MS Client Sample ID: \_\_\_\_\_Date Analyzed: 04/03/13 16:29 Lab File ID: 1CD03018.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/
Dibenz(a,h)anthracene	10.01	Baseline Event	cantins	04/04/
Benzo[g,h,i]perylene	10.34	Baseline Event	cantins	04/04/

Lab Sample ID: 680-88766-A-21-F MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 04/03/13 16:47 Lab File ID: 1CD03019.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	9.99	Baseline Event	cantins	04/04/

Lab Sample ID: 680-88767-1 Client Sample ID: CV0022A-CSDate Analyzed: 04/03/13 18:37 Lab File ID: 1CD03025.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.52	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-2 Client Sample ID: CV0022A-CSDDate Analyzed: 04/03/13 18:55 Lab File ID: 1CD03026.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/



DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136081Lab Sample ID: 680-88767-3 Client Sample ID: CV0509AB-GSDate Analyzed: 04/03/13 19:13 Lab File ID: 1CD03027.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-4 Client Sample ID: CV0509AC-GSDate Analyzed: 04/03/13 19:32 Lab File ID: 1CD03028.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-5 Client Sample ID: CV0509AD-GSDate Analyzed: 04/03/13 19:50 Lab File ID: 1CD03029.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-6 Client Sample ID: CV0509AE-GSDate Analyzed: 04/03/13 20:08 Lab File ID: 1CD03030.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	10.02	Baseline Event	cantins	04/05/

Lab Sample ID: 680-88767-7 Client Sample ID: CV0509AF-GSDate Analyzed: 04/03/13 20:27 Lab File ID: 1CD03031.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136081Lab Sample ID: 680-88767-8 Client Sample ID: CV0509A-CSDate Analyzed: 04/03/13 20:45 Lab File ID: 1CD03032.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.51	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/
Dibenz(a,h)anthracene	10.02	Baseline Event	cantins	04/05/

Lab Sample ID: 680-88767-9 Client Sample ID: CV0509B-CSDate Analyzed: 04/03/13 21:03 Lab File ID: 1CD03033.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-10 Client Sample ID: CV0509C-CSDate Analyzed: 04/03/13 21:21 Lab File ID: 1CD03034.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/05/

DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136131Lab Sample ID: CCVIS 660-136131/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/04/13 11:50 Lab File ID: 1CD04003.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	04/04/

Lab Sample ID: LCS 660-136072/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/04/13 16:25 Lab File ID: 1CD04018.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-11 Client Sample ID: CV0509C-CSDDate Analyzed: 04/04/13 17:38 Lab File ID: 1CD04022.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-12 Client Sample ID: CV0509D-CSDate Analyzed: 04/04/13 17:57 Lab File ID: 1CD04023.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-13 Client Sample ID: CV0509E-CSDate Analyzed: 04/04/13 18:15 Lab File ID: 1CD04024.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-14 Client Sample ID: CV0509F-CSDate Analyzed: 04/04/13 18:34 Lab File ID: 1CD04025.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/05/

DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136131Lab Sample ID: 680-88767-14 MS Client Sample ID: CV0509F-CS MSDate Analyzed: 04/04/13 18:52 Lab File ID: 1CD04026.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-14 MSD Client Sample ID: CV0509F-CS MSDDate Analyzed: 04/04/13 19:10 Lab File ID: 1CD04027.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-15 Client Sample ID: CV0509G-CSDate Analyzed: 04/04/13 19:29 Lab File ID: 1CD04028.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-16 Client Sample ID: CV0509H-CSDate Analyzed: 04/04/13 19:47 Lab File ID: 1CD04029.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-17 Client Sample ID: CV0509I-CSDate Analyzed: 04/04/13 20:05 Lab File ID: 1CD04030.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/05/

Lab Sample ID: 680-88767-18 Client Sample ID: CV0509J-CSDate Analyzed: 04/04/13 20:24 Lab File ID: 1CD04031.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.54	Baseline Event	cantins	04/05/
Dibenz(a,h)anthracene	10.02	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/



DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973 Analysis Batch Number: 136131Lab Sample ID: 680-88767-19 Client Sample ID: CV0509K-CSDate Analyzed: 04/04/13 20:42 Lab File ID: 1CD04032.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

Lab Sample ID: 680-88767-20 Client Sample ID: CV0509K-CSDDate Analyzed: 04/04/13 21:00 Lab File ID: 1CD04033.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.52	Split Peak	cantins	04/05/
Benzo[k]fluoranthene	8.53	Baseline Event	cantins	04/05/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/05/

DB-5MS \_\_\_\_\_ ID: 250 (um)

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DB-5MS \_\_\_\_\_ ID: 250 (um)

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# 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.: 680-88767-1

SDG No.: 68088767-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0022A-CS	680-88767-1	61
CV0022A-CSD	680-88767-2	70
CV0509AB-GS	680-88767-3	80
CV0509AC-GS	680-88767-4	69
CV0509AD-GS	680-88767-5	74
CV0509AE-GS	680-88767-6	67
CV0509AF-GS	680-88767-7	73
CV0509A-CS	680-88767-8	75
CV0509B-CS	680-88767-9	71
CV0509C-CS	680-88767-10	58
CV0509C-CSD	680-88767-11	61
CV0509D-CS	680-88767-12	100
CV0509E-CS	680-88767-13	107
CV0509F-CS	680-88767-14	77
CV0509G-CS	680-88767-15	57
CV0509H-CS	680-88767-16	107
CV0509I-CS	680-88767-17	74
CV0509J-CS	680-88767-18	71
CV0509K-CS	680-88767-19	68
CV0509K-CSD	680-88767-20	69
	MB 660-136063/1-A	80
	MB 660-136072/1-A	87
	LCS 660-136063/2-A	72
	LCS 660-136072/2-A	79
	680-88766-A-21-E MS	92
CV0509F-CS MS	680-88767-14 MS	70
	680-88766-A-21-F MSD	97
CV0509F-CS MSD	680-88767-14 MSD	80

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.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD03016.D  
 Lab ID: LCS 660-136063/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	458	69	39-130	
Acenaphthylene	668	488	73	38-130	
Anthracene	668	469	70	37-130	
Benzo[a]anthracene	668	484	72	40-130	
Benzo[a]pyrene	668	444	66	49-130	
Benzo[b]fluoranthene	668	516	77	37-130	
Benzo[g,h,i]perylene	668	418	63	32-130	
Benzo[k]fluoranthene	668	468	70	32-130	
Chrysene	668	462	69	41-130	
Dibenz(a,h)anthracene	668	471	71	27-130	
Fluoranthene	668	487	73	40-130	
Fluorene	668	444	66	40-130	
Indeno[1,2,3-cd]pyrene	668	399	60	30-130	
1-Methylnaphthalene	668	522	78	31-130	
2-Methylnaphthalene	668	458	69	33-130	
Naphthalene	668	484	72	36-130	
Phenanthrene	668	499	75	42-130	
Pyrene	668	516	77	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.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD04018.D  
 Lab ID: LCS 660-136072/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	657	472	72	39-130	
Acenaphthylene	657	556	85	38-130	
Anthracene	657	514	78	37-130	
Benzo[a]anthracene	657	596	91	40-130	
Benzo[a]pyrene	657	519	79	49-130	
Benzo[b]fluoranthene	657	559	85	37-130	
Benzo[g,h,i]perylene	657	504	77	32-130	
Benzo[k]fluoranthene	657	551	84	32-130	
Chrysene	657	564	86	41-130	
Dibenz(a,h)anthracene	657	538	82	27-130	
Fluoranthene	657	599	91	40-130	
Fluorene	657	514	78	40-130	
Indeno[1,2,3-cd]pyrene	657	486	74	30-130	
1-Methylnaphthalene	657	656	100	31-130	
2-Methylnaphthalene	657	536	81	33-130	
Naphthalene	657	565	86	36-130	
Phenanthrene	657	552	84	42-130	
Pyrene	657	602	92	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.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD03018.D  
 Lab ID: 680-88766-A-21-E MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	883	530 U	656	74	39-130	
Acenaphthylene	883	34 J	626	67	38-130	
Anthracene	883	45 U	666	75	37-130	
Benzo[a]anthracene	883	200	833	72	40-130	
Benzo[a]pyrene	883	100	650	62	49-130	
Benzo[b]fluoranthene	883	150	738	66	37-130	
Benzo[g,h,i]perylene	883	130	623	56	32-130	
Benzo[k]fluoranthene	883	79	667	67	32-130	
Chrysene	883	210	780	65	41-130	
Dibenz(a,h)anthracene	883	62 J	622	63	27-130	
Fluoranthene	883	210	697	55	40-130	
Fluorene	883	39 J	639	68	40-130	
Indeno[1,2,3-cd]pyrene	883	76 J	532	52	30-130	
1-Methylnaphthalene	883	120 J	653	60	31-130	
2-Methylnaphthalene	883	130 J	653	59	33-130	
Naphthalene	883	100 J	681	66	36-130	
Phenanthrene	883	200	690	55	42-130	
Pyrene	883	210	750	62	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.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD04026.D  
 Lab ID: 680-88767-14 MS Client ID: CV0509F-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	840	130 U	609	72	39-130	
Acenaphthylene	840	15 J	665	77	38-130	
Anthracene	840	41	644	72	37-130	
Benzo[a]anthracene	840	200	903	84	40-130	
Benzo[a]pyrene	840	180	833	78	49-130	
Benzo[b]fluoranthene	840	300	937	76	37-130	
Benzo[g,h,i]perylene	840	130	760	75	32-130	
Benzo[k]fluoranthene	840	110	973	102	32-130	
Chrysene	840	210	959	90	41-130	
Dibenz(a,h)anthracene	840	44	673	75	27-130	
Fluoranthene	840	350	1080	87	40-130	
Fluorene	840	19 J	622	72	40-130	
Indeno[1,2,3-cd]pyrene	840	120	712	70	30-130	
1-Methylnaphthalene	840	37 J	740	84	31-130	
2-Methylnaphthalene	840	50	680	75	33-130	
Naphthalene	840	45 J	663	74	36-130	
Phenanthrene	840	230	823	71	42-130	
Pyrene	840	320	1080	91	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD03019.D  
 Lab ID: 680-88766-A-21-F MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	927	669	72	2	40	39-130	
Acenaphthylene	927	686	70	9	40	38-130	
Anthracene	927	674	73	1	40	37-130	
Benzo[a]anthracene	927	856	71	3	40	40-130	
Benzo[a]pyrene	927	651	59	0	40	49-130	
Benzo[b]fluoranthene	927	710	60	4	40	37-130	
Benzo[g,h,i]perylene	927	618	53	1	40	32-130	
Benzo[k]fluoranthene	927	822	80	21	40	32-130	
Chrysene	927	739	57	5	40	41-130	
Dibenz(a,h)anthracene	927	713	70	14	40	27-130	
Fluoranthene	927	780	62	11	40	40-130	
Fluorene	927	657	67	3	40	40-130	
Indeno[1,2,3-cd]pyrene	927	659	63	21	40	30-130	
1-Methylnaphthalene	927	709	64	8	40	31-130	
2-Methylnaphthalene	927	671	58	3	40	33-130	
Naphthalene	927	648	59	5	40	36-130	
Phenanthrene	927	758	60	9	40	42-130	
Pyrene	927	878	72	16	40	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Matrix: Solid Level: Low Lab File ID: 1CD04027.D  
 Lab ID: 680-88767-14 MSD Client ID: CV0509F-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	840	686	82	12	40	39-130	
Acenaphthylene	840	689	80	4	40	38-130	
Anthracene	840	774	87	18	40	37-130	
Benzo[a]anthracene	840	1050	101	15	40	40-130	
Benzo[a]pyrene	840	987	97	17	40	49-130	
Benzo[b]fluoranthene	840	1300	119	32	40	37-130	
Benzo[g,h,i]perylene	840	834	84	9	40	32-130	
Benzo[k]fluoranthene	840	952	100	2	40	32-130	
Chrysene	840	1050	101	9	40	41-130	
Dibenz(a,h)anthracene	840	781	88	15	40	27-130	
Fluoranthene	840	1430	129	28	40	40-130	
Fluorene	840	716	83	14	40	40-130	
Indeno[1,2,3-cd]pyrene	840	854	87	18	40	30-130	
1-Methylnaphthalene	840	784	89	6	40	31-130	
2-Methylnaphthalene	840	758	84	11	40	33-130	
Naphthalene	840	687	76	4	40	36-130	
Phenanthrene	840	1190	114	36	40	42-130	
Pyrene	840	1310	118	19	40	44-130	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab File ID: 1CD03015.D Lab Sample ID: MB 660-136063/1-A  
 Matrix: Solid Date Extracted: 04/02/2013 11:33  
 Instrument ID: BSMC5973 Date Analyzed: 04/03/2013 15:34  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136063/2-A	1CD03016.D	04/03/2013 15:52
	680-88766-A-21-E MS	1CD03018.D	04/03/2013 16:29
	680-88766-A-21-F MSD	1CD03019.D	04/03/2013 16:47
CV0022A-CS	680-88767-1	1CD03025.D	04/03/2013 18:37
CV0022A-CSD	680-88767-2	1CD03026.D	04/03/2013 18:55
CV0509AB-GS	680-88767-3	1CD03027.D	04/03/2013 19:13
CV0509AC-GS	680-88767-4	1CD03028.D	04/03/2013 19:32
CV0509AD-GS	680-88767-5	1CD03029.D	04/03/2013 19:50
CV0509AE-GS	680-88767-6	1CD03030.D	04/03/2013 20:08
CV0509AF-GS	680-88767-7	1CD03031.D	04/03/2013 20:27
CV0509A-CS	680-88767-8	1CD03032.D	04/03/2013 20:45
CV0509B-CS	680-88767-9	1CD03033.D	04/03/2013 21:03
CV0509C-CS	680-88767-10	1CD03034.D	04/03/2013 21:21

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab File ID: 1CD04017.D Lab Sample ID: MB 660-136072/1-A  
 Matrix: Solid Date Extracted: 04/03/2013 11:18  
 Instrument ID: BSMC5973 Date Analyzed: 04/04/2013 16:07  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136072/2-A	1CD04018.D	04/04/2013 16:25
CV0509C-CSD	680-88767-11	1CD04022.D	04/04/2013 17:38
CV0509D-CS	680-88767-12	1CD04023.D	04/04/2013 17:57
CV0509E-CS	680-88767-13	1CD04024.D	04/04/2013 18:15
CV0509F-CS	680-88767-14	1CD04025.D	04/04/2013 18:34
CV0509F-CS MS	680-88767-14 MS	1CD04026.D	04/04/2013 18:52
CV0509F-CS MSD	680-88767-14 MSD	1CD04027.D	04/04/2013 19:10
CV0509G-CS	680-88767-15	1CD04028.D	04/04/2013 19:29
CV0509H-CS	680-88767-16	1CD04029.D	04/04/2013 19:47
CV0509I-CS	680-88767-17	1CD04030.D	04/04/2013 20:05
CV0509J-CS	680-88767-18	1CD04031.D	04/04/2013 20:24
CV0509K-CS	680-88767-19	1CD04032.D	04/04/2013 20:42
CV0509K-CSD	680-88767-20	1CD04033.D	04/04/2013 21:00

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 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.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab File ID: 1CD03002.D DFTPP Injection Date: 04/03/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:28  
 Analysis Batch No.: 136081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.7
68	Less than 2.0 % of mass 69	0.6 (1.1)1
69	Mass 69 relative abundance	49.7
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	19.7
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	6.9
442	Greater than 50.0 % of mass 198	61.0
443	15.0 - 24.0 % of mass 442	10.2 (16.7)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136081/3	1CD03003.D	04/03/2013	11:45
	MB 660-136063/1-A	1CD03015.D	04/03/2013	15:34
	LCS 660-136063/2-A	1CD03016.D	04/03/2013	15:52
	680-88766-A-21-E MS	1CD03018.D	04/03/2013	16:29
	680-88766-A-21-F MSD	1CD03019.D	04/03/2013	16:47
CV0022A-CS	680-88767-1	1CD03025.D	04/03/2013	18:37
CV0022A-CSD	680-88767-2	1CD03026.D	04/03/2013	18:55
CV0509AB-GS	680-88767-3	1CD03027.D	04/03/2013	19:13
CV0509AC-GS	680-88767-4	1CD03028.D	04/03/2013	19:32
CV0509AD-GS	680-88767-5	1CD03029.D	04/03/2013	19:50
CV0509AE-GS	680-88767-6	1CD03030.D	04/03/2013	20:08
CV0509AF-GS	680-88767-7	1CD03031.D	04/03/2013	20:27
CV0509A-CS	680-88767-8	1CD03032.D	04/03/2013	20:45
CV0509B-CS	680-88767-9	1CD03033.D	04/03/2013	21:03
CV0509C-CS	680-88767-10	1CD03034.D	04/03/2013	21:21

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab File ID: 1CD04002.D DFTPP Injection Date: 04/04/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:33  
 Analysis Batch No.: 136131

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	37.6
68	Less than 2.0 % of mass 69	0.9 (1.9)1
69	Mass 69 relative abundance	47.3
70	Less than 2.0 % of mass 69	0.3 (0.6)1
127	10.0 - 80.0 % of mass 198	48.6
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	6.1
275	10.0 - 60.0 % of mass 198	24.0
365	Greater than 1.0 % of mass 198	3.1
441	Present but less than mass 443	10.8
442	Greater than 50.0 % of mass 198	74.3
443	15.0 - 24.0 % of mass 442	13.2 (17.8)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136131/3	1CD04003.D	04/04/2013	11:50
	MB 660-136072/1-A	1CD04017.D	04/04/2013	16:07
	LCS 660-136072/2-A	1CD04018.D	04/04/2013	16:25
CV0509C-CSD	680-88767-11	1CD04022.D	04/04/2013	17:38
CV0509D-CS	680-88767-12	1CD04023.D	04/04/2013	17:57
CV0509E-CS	680-88767-13	1CD04024.D	04/04/2013	18:15
CV0509F-CS	680-88767-14	1CD04025.D	04/04/2013	18:34
CV0509F-CS MS	680-88767-14 MS	1CD04026.D	04/04/2013	18:52
CV0509F-CS MSD	680-88767-14 MSD	1CD04027.D	04/04/2013	19:10
CV0509G-CS	680-88767-15	1CD04028.D	04/04/2013	19:29
CV0509H-CS	680-88767-16	1CD04029.D	04/04/2013	19:47
CV0509I-CS	680-88767-17	1CD04030.D	04/04/2013	20:05
CV0509J-CS	680-88767-18	1CD04031.D	04/04/2013	20:24
CV0509K-CS	680-88767-19	1CD04032.D	04/04/2013	20:42
CV0509K-CSD	680-88767-20	1CD04033.D	04/04/2013	21:00



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

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 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.: 680-88767-1  
 SDG No.: 68088767-1  
 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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	500765	3.70	364027	4.79	687020	5.74
UPPER LIMIT	1001530	4.20	728054	5.29	1374040	6.24
LOWER LIMIT	250383	3.20	182014	4.29	343510	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136063/1-A	646271	3.71	483289	4.80	879169	5.75
LCS 660-136063/2-A	631468	3.71	487717	4.79	877192	5.74
680-88766-A-21-E MS	604618	3.71	447317	4.79	819020	5.74
680-88766-A-21-F MSD	599290	3.71	437990	4.79	801261	5.74
680-88767-1	CV0022A-CS	575063	432633	4.79	798475	5.74
680-88767-2	CV0022A-CSD	581925	429297	4.79	799729	5.74
680-88767-3	CV0509AB-GS	587398	427058	4.79	764581	5.74
680-88767-4	CV0509AC-GS	624862	427948	4.79	792300	5.74
680-88767-5	CV0509AD-GS	601947	441630	4.79	796855	5.74
680-88767-6	CV0509AE-GS	602232	436638	4.80	804909	5.74
680-88767-7	CV0509AF-GS	604853	425571	4.79	766465	5.74
680-88767-8	CV0509A-CS	603224	433497	4.80	796210	5.74
680-88767-9	CV0509B-CS	592063	432430	4.80	810673	5.74
680-88767-10	CV0509C-CS	499504	376673	4.80	779725	5.74

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.: 680-88767-1  
 SDG No.: 68088767-1  
 Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	857573	7.68	866012	8.85		
UPPER LIMIT	1715146	8.18	1732024	9.35		
LOWER LIMIT	428787	7.18	433006	8.35		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136063/1-A		990236	7.68	958431	8.86	
LCS 660-136063/2-A		995572	7.68	964341	8.85	
680-88766-A-21-E MS		882360	7.68	885344	8.85	
680-88766-A-21-F MSD		885431	7.68	855561	8.85	
680-88767-1	CV0022A-CS	876026	7.68	854967	8.85	
680-88767-2	CV0022A-CSD	1022646	7.68	832079	8.85	
680-88767-3	CV0509AB-GS	822329	7.68	805513	8.85	
680-88767-4	CV0509AC-GS	896421	7.68	817886	8.86	
680-88767-5	CV0509AD-GS	855779	7.68	831443	8.85	
680-88767-6	CV0509AE-GS	840928	7.68	794290	8.85	
680-88767-7	CV0509AF-GS	847750	7.68	774361	8.86	
680-88767-8	CV0509A-CS	861515	7.68	792552	8.86	
680-88767-9	CV0509B-CS	891105	7.68	792918	8.85	
680-88767-10	CV0509C-CS	904051	7.68	848468	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.: 680-88767-1  
 SDG No.: 68088767-1  
 Sample No.: CCVIS 660-136131/3 Date Analyzed: 04/04/2013 11:50  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD04003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	410068	3.69	312571	4.79	602712	5.73	
UPPER LIMIT	820136	4.19	625142	5.29	1205424	6.23	
LOWER LIMIT	205034	3.19	156286	4.29	301356	5.23	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136072/1-A	448957	3.69	350129	4.79	699563	5.73	
LCS 660-136072/2-A	437243	3.69	353803	4.79	720796	5.73	
680-88767-11	CV0509C-CSD	464857	3.69	363864	4.78	744590	5.73
680-88767-12	CV0509D-CS	479125	3.69	359214	4.78	701463	5.73
680-88767-13	CV0509E-CS	452537	3.69	345599	4.78	710789	5.73
680-88767-14	CV0509F-CS	503534	3.69	381498	4.78	766354	5.73
680-88767-14 MS	CV0509F-CS MS	493002	3.69	395089	4.79	785200	5.73
680-88767-14 MSD	CV0509F-CS MSD	501990	3.70	379064	4.79	721133	5.73
680-88767-15	CV0509G-CS	522679	3.70	388245	4.79	771567	5.73
680-88767-16	CV0509H-CS	530140	3.70	385286	4.79	762041	5.73
680-88767-17	CV0509I-CS	503632	3.70	382609	4.79	760098	5.73
680-88767-18	CV0509J-CS	514340	3.70	395482	4.79	777167	5.73
680-88767-19	CV0509K-CS	510104	3.70	379836	4.79	749444	5.73
680-88767-20	CV0509K-CSD	482602	3.69	367184	4.78	762581	5.73

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.: 680-88767-1  
 SDG No.: 68088767-1  
 Sample No.: CCVIS 660-136131/3 Date Analyzed: 04/04/2013 11:50  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD04003.D Heated Purge: (Y/N) N  
 Calibration ID: 2859

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	790423	7.69	846222	8.89		
UPPER LIMIT	1580846	8.19	1692444	9.39		
LOWER LIMIT	395212	7.19	423111	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136072/1-A		829418	7.68	791436	8.87	
LCS 660-136072/2-A		841673	7.68	849313	8.87	
680-88767-11	CV0509C-CSD	860522	7.68	832648	8.86	
680-88767-12	CV0509D-CS	816807	7.68	786904	8.86	
680-88767-13	CV0509E-CS	825734	7.68	803497	8.86	
680-88767-14	CV0509F-CS	889270	7.68	862068	8.86	
680-88767-14 MS	CV0509F-CS MS	876742	7.69	833239	8.86	
680-88767-14 MSD	CV0509F-CS MSD	826401	7.69	776193	8.86	
680-88767-15	CV0509G-CS	871205	7.68	841819	8.87	
680-88767-16	CV0509H-CS	837953	7.68	797933	8.86	
680-88767-17	CV0509I-CS	845202	7.68	816413	8.86	
680-88767-18	CV0509J-CS	865641	7.68	836089	8.86	
680-88767-19	CV0509K-CS	850338	7.68	832882	8.86	
680-88767-20	CV0509K-CSD	888262	7.68	832587	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 I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0022A-CS Lab Sample ID: 680-88767-1  
 Matrix: Solid Lab File ID: 1CD03025.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:00  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 15.30 (g) Date Analyzed: 04/03/2013 18:37  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 41.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	70	J	170	33
208-96-8	Acenaphthylene	48	J	67	8.3
120-12-7	Anthracene	150		14	7.0
56-55-3	Benzo[a]anthracene	520		13	6.5
50-32-8	Benzo[a]pyrene	460		17	8.7
205-99-2	Benzo[b]fluoranthene	720		20	10
191-24-2	Benzo[g,h,i]perylene	270		33	7.3
207-08-9	Benzo[k]fluoranthene	340		13	6.0
218-01-9	Chrysene	600		15	7.5
53-70-3	Dibenz(a,h)anthracene	94		33	6.8
206-44-0	Fluoranthene	1000		33	6.7
86-73-7	Fluorene	40		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	280		33	12
90-12-0	1-Methylnaphthalene	120		67	7.3
91-57-6	2-Methylnaphthalene	140		67	12
91-20-3	Naphthalene	180		67	7.3
85-01-8	Phenanthrene	680		13	6.5
129-00-0	Pyrene	950		33	6.2

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040313.b\1CD03025.D  
 Lab Smp Id: 680-88767-A-1-B Client Smp ID: CV0022A-CS  
 Inj Date : 03-APR-2013 18:37  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-1-b  
 Misc Info : 680-88767-A-1-B  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	41.139	% 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		3.710	3.704	(1.000)	575063	40.0000		
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	432633	40.0000		
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	798475	40.0000		
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	70573	6.14031	681.8255	
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	876026	40.0000		
* 23 Perylene-d12	264		8.851	8.851	(1.000)	854967	40.0000		
2 Naphthalene	128		3.722	3.722	(1.003)	24578	1.66401	184.7727	
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	12998	1.29276	143.5495	
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	9868	1.09075	121.1172	
5 Acenaphthylene	152		4.710	4.704	(0.983)	7679	0.42886	47.6209	
7 Acenaphthene	154		4.816	4.816	(1.005)	6952	0.62686	69.6071	
9 Fluorene	166		5.133	5.133	(1.071)	5343	0.36140	40.1298(Q)	
11 Phenanthrene	178		5.757	5.757	(1.003)	142675	6.13516	681.2532	
12 Anthracene	178		5.792	5.792	(1.009)	30832	1.30788	145.2279	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	19419	0.96148	106.7637
15 Fluoranthene	202	6.592	6.592	(1.149)	239525	9.32637	1035.6077
16 Pyrene	202	6.757	6.757	(0.880)	206822	8.52291	946.3909
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	115496	4.68580	520.3150
19 Chrysene	228	7.698	7.698	(1.002)	135400	5.42405	602.2906
20 Benzo(b)fluoranthene	252	8.510	8.509	(0.961)	157510	6.51658	723.6068(M)
21 Benzo(k)fluoranthene	252	8.521	8.533	(0.963)	70892	3.03251	336.7319(QM)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	93807	4.12228	457.7413
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.130)	54443	2.51888	279.6984(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	16863	0.84458	93.7824
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	53047	2.40471	267.0207

QC Flag Legend

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

Data File: 1CD03025.D

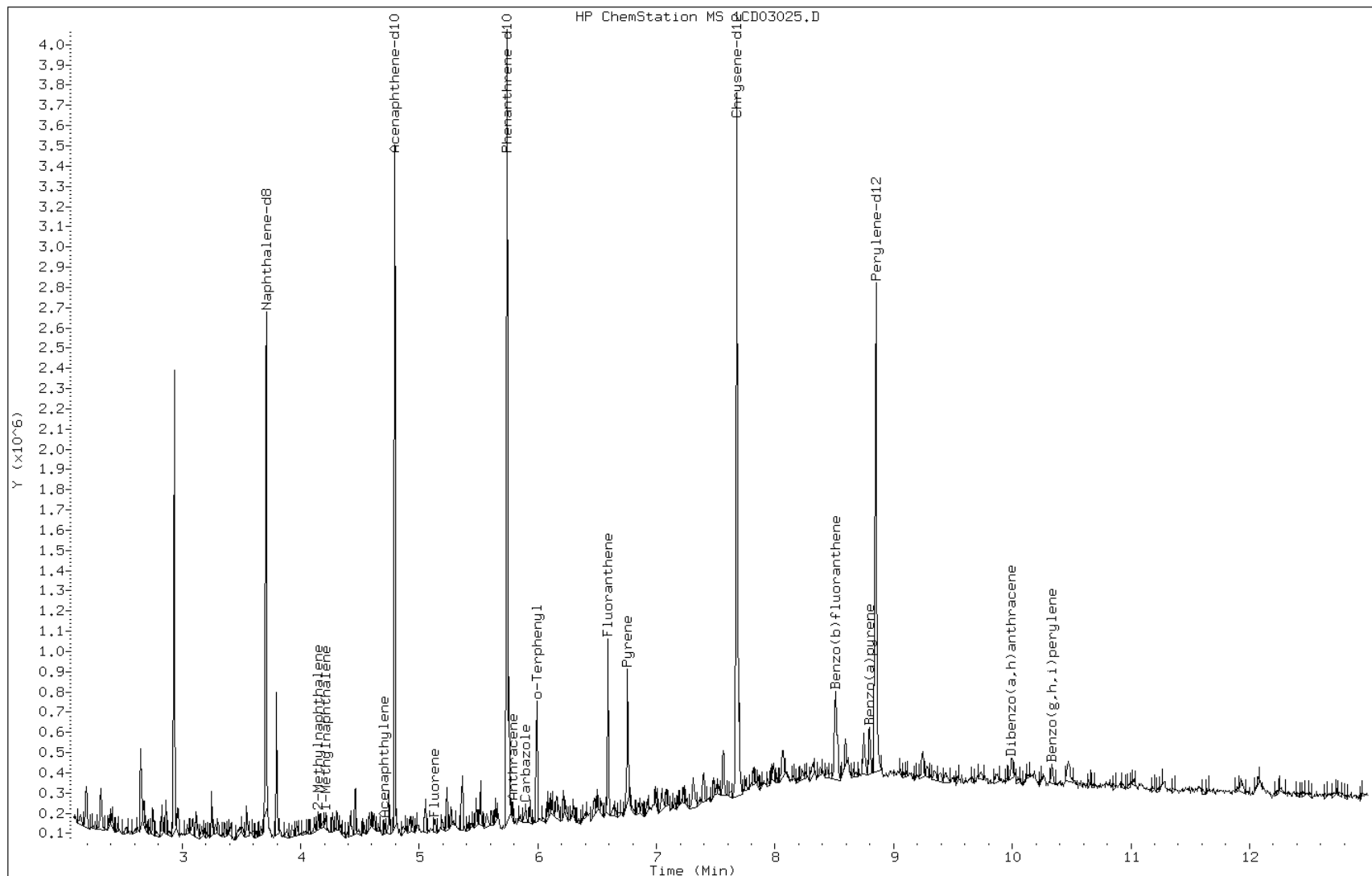
Date: 03-APR-2013 18:37

Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

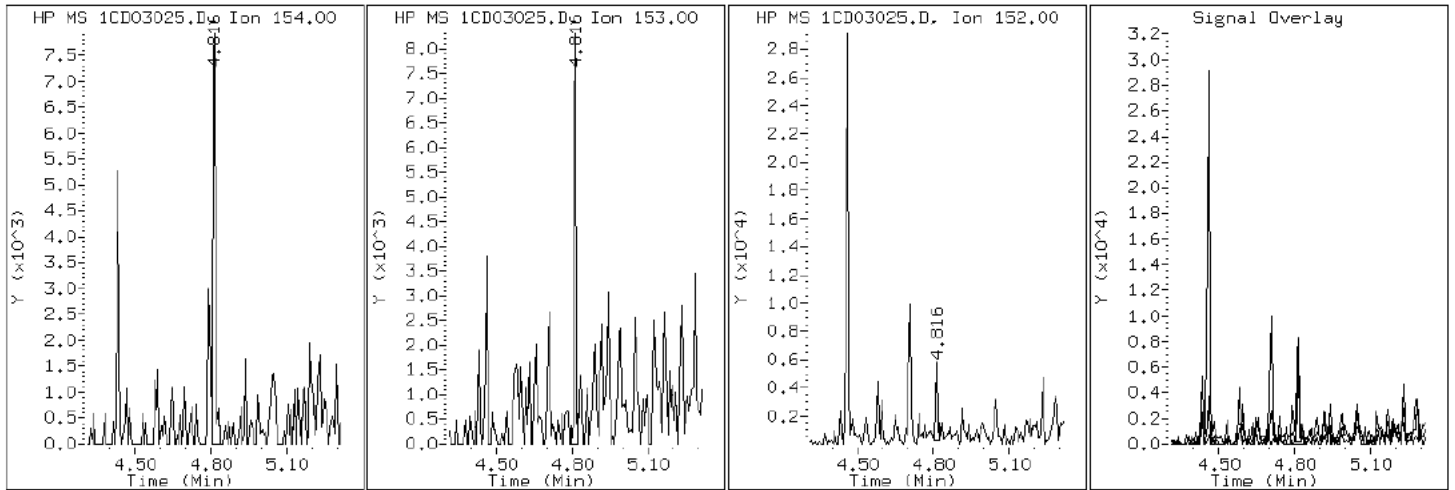
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

7 Acenaphthene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

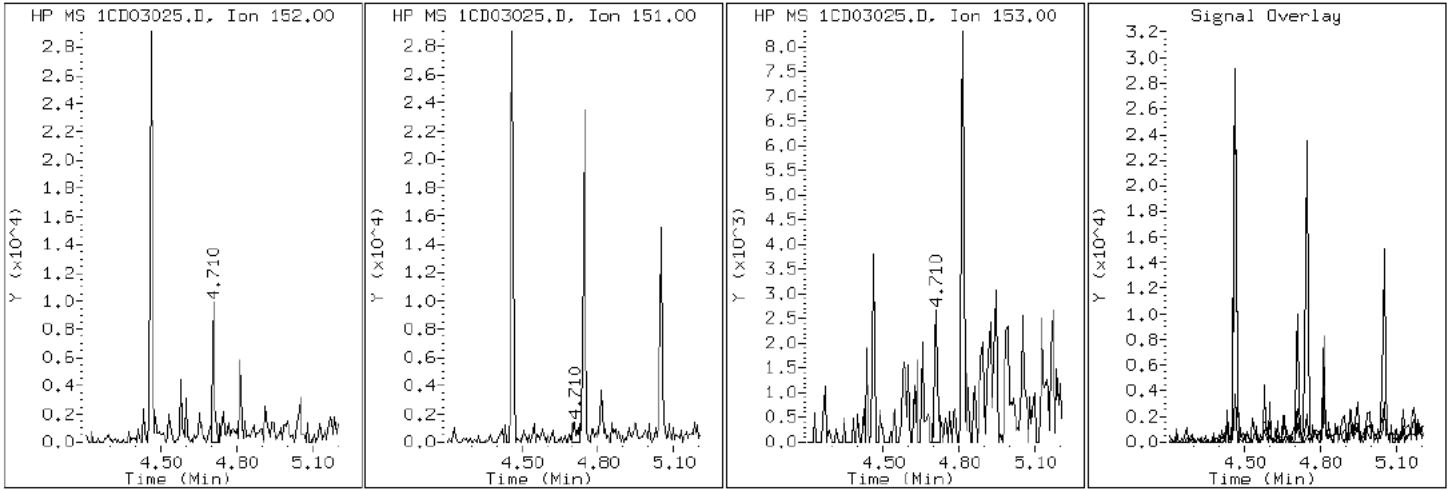
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

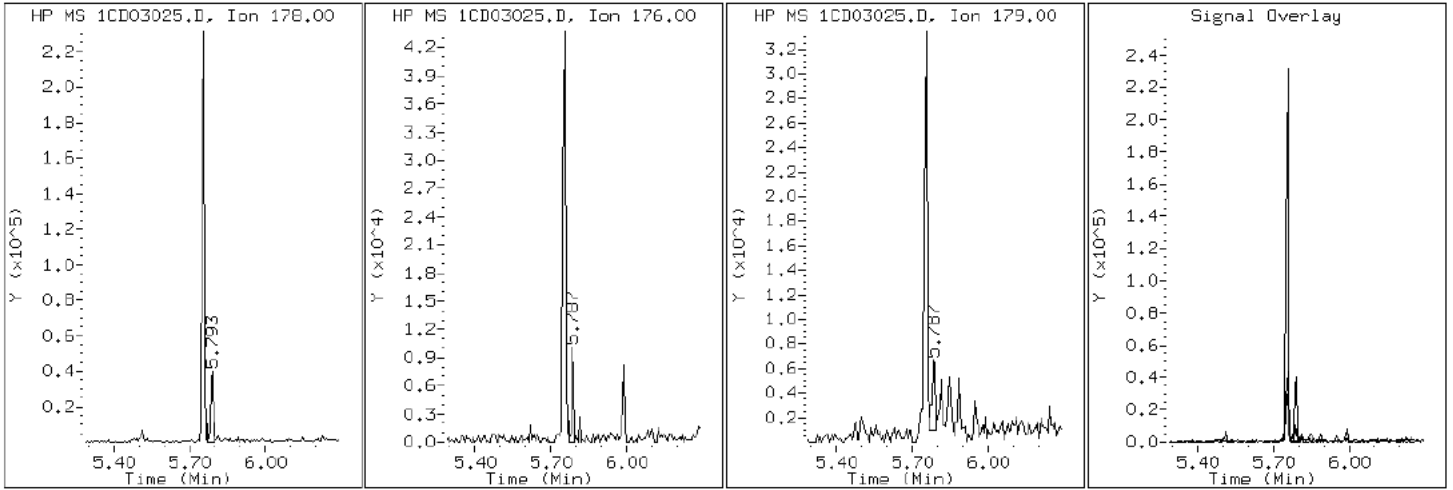
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

12 Anthracene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

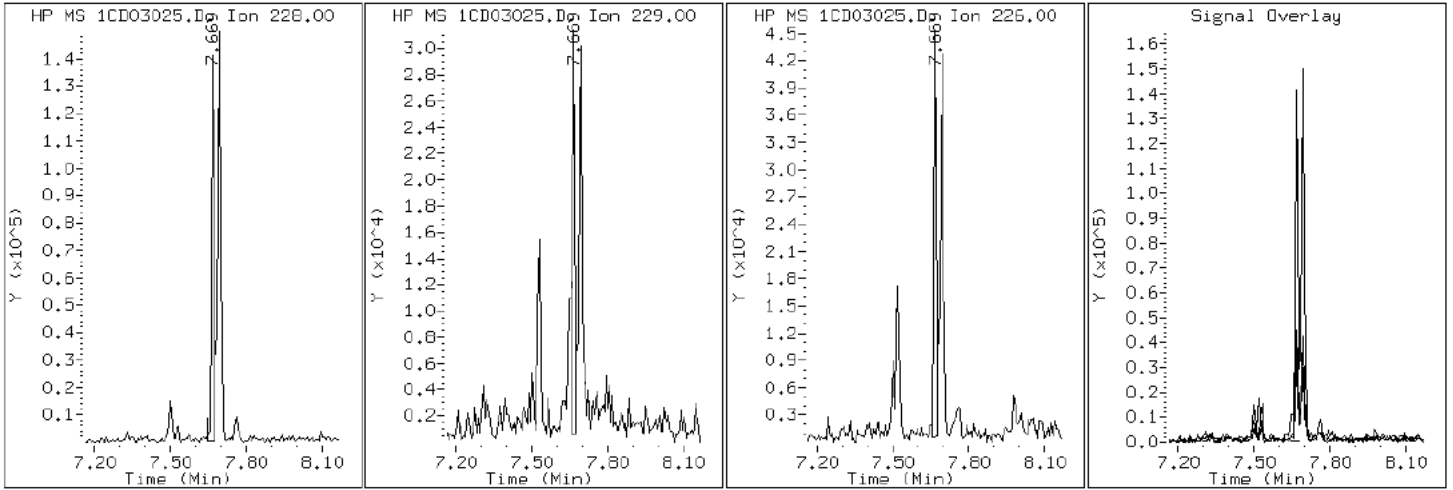
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

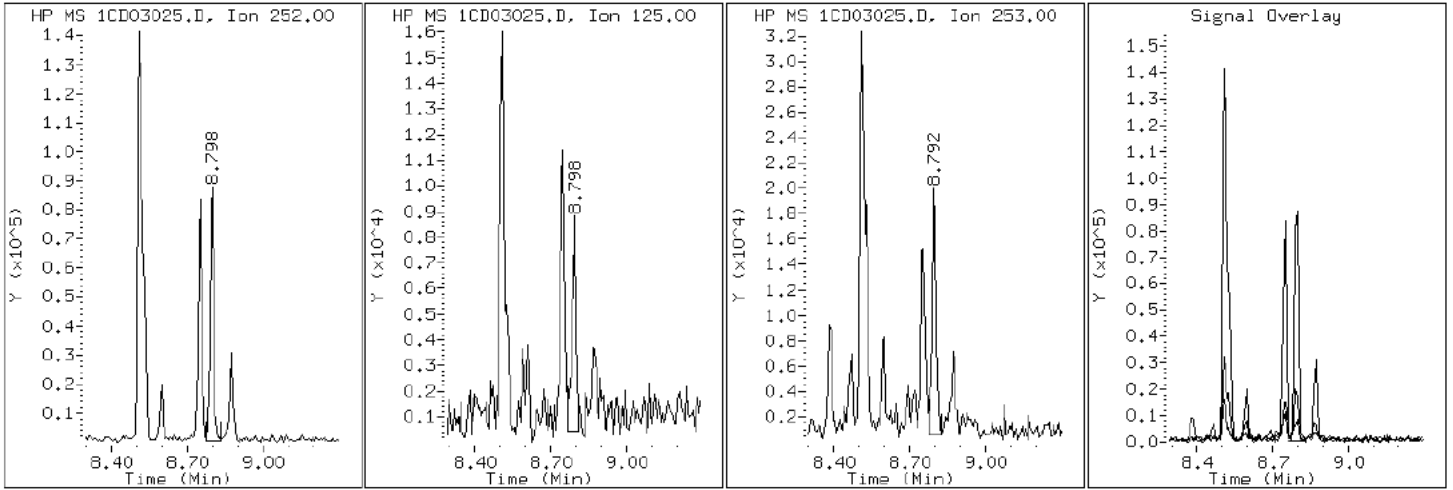
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

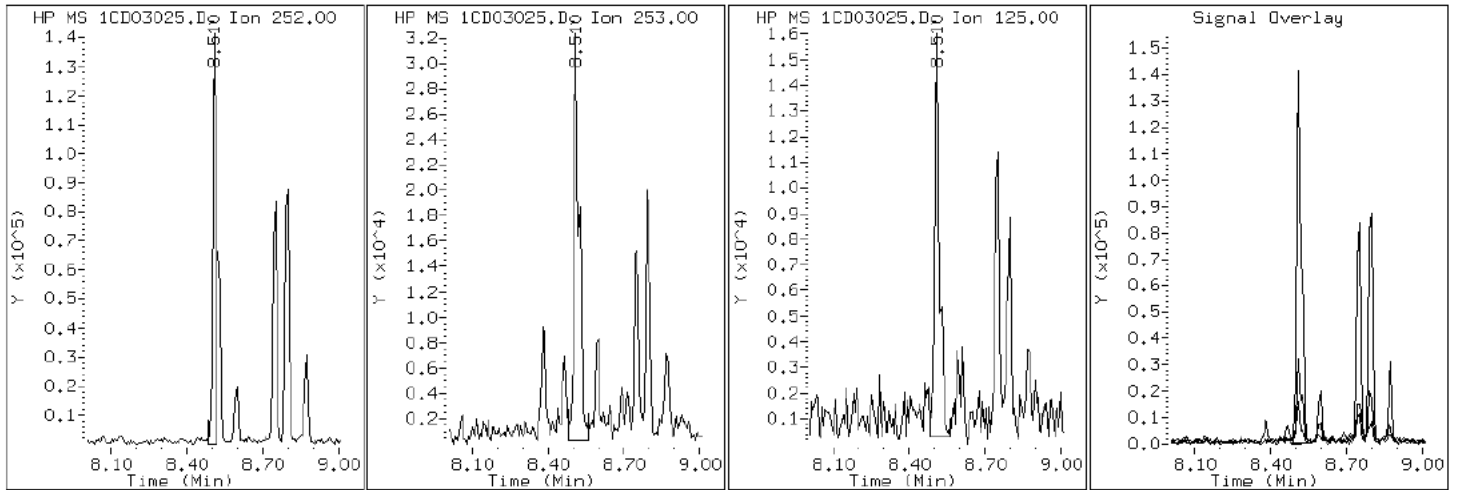
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD03025.D

Date: 03-APR-2013 18:37

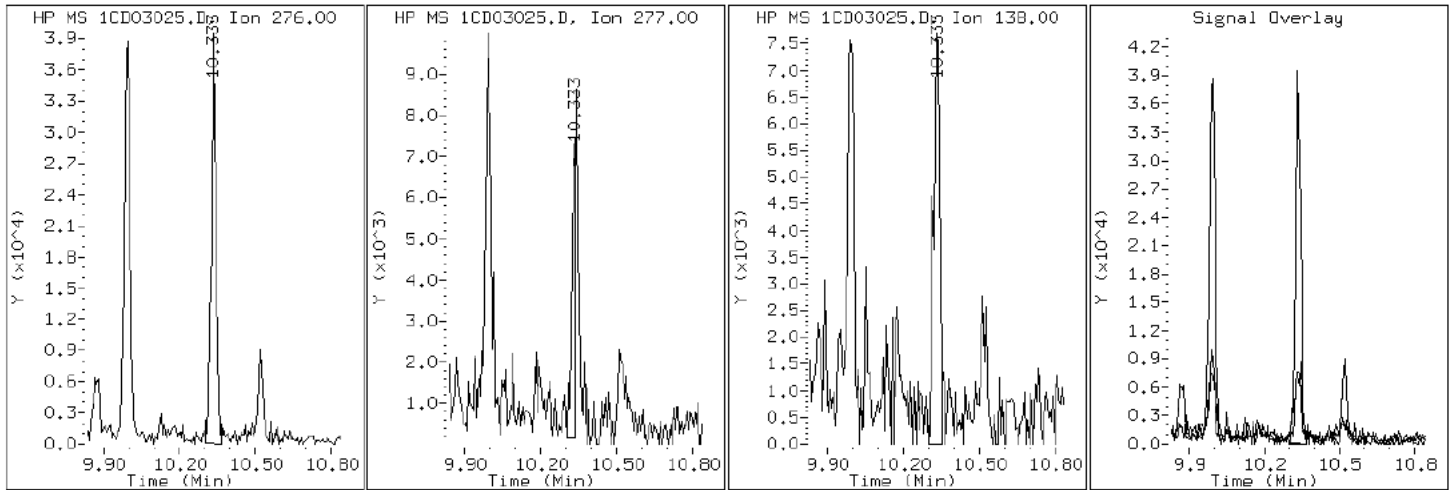
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

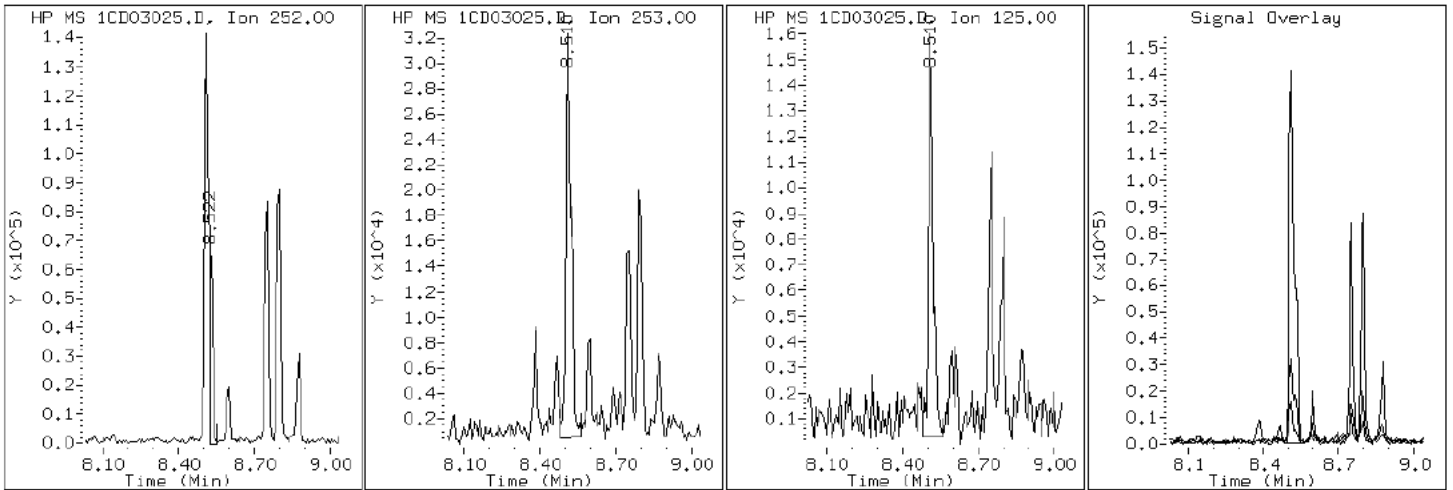
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

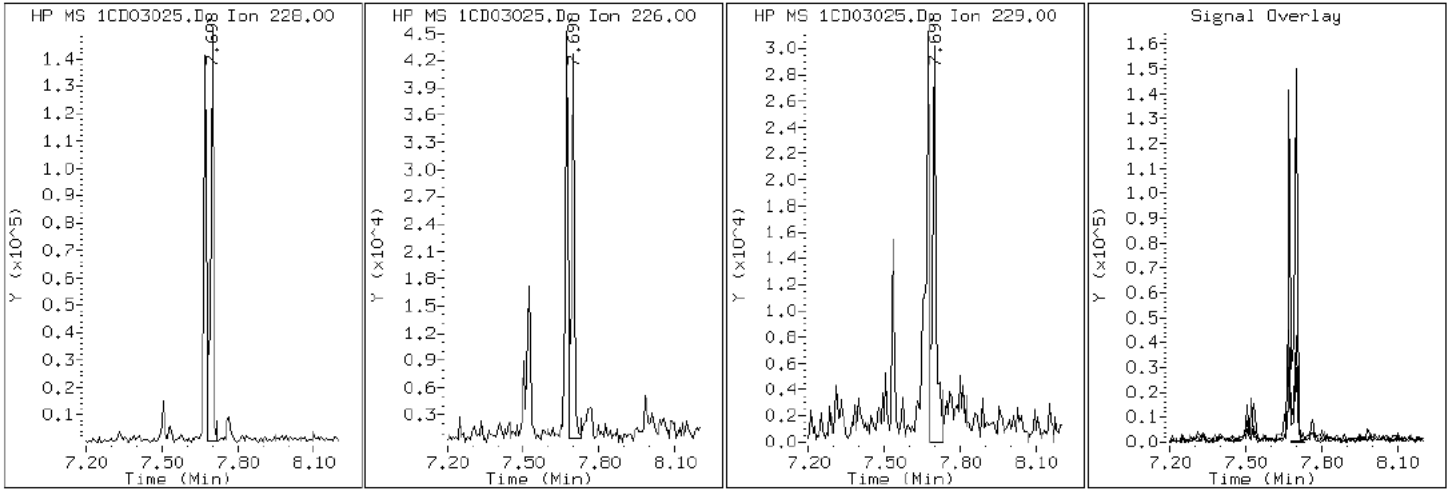
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

19 Chrysene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

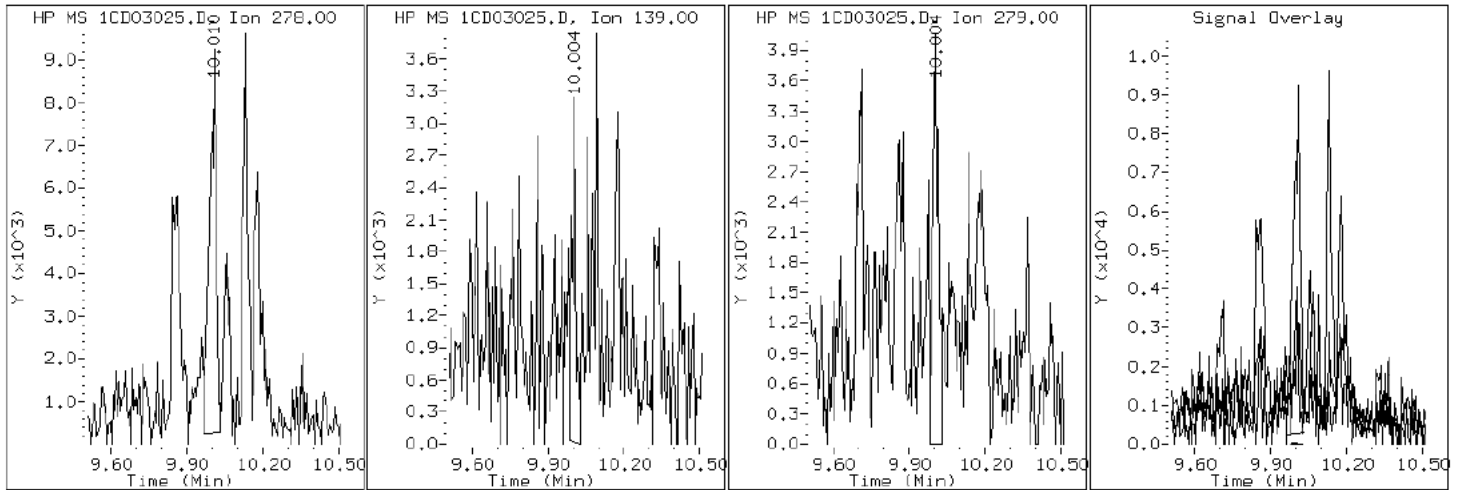
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

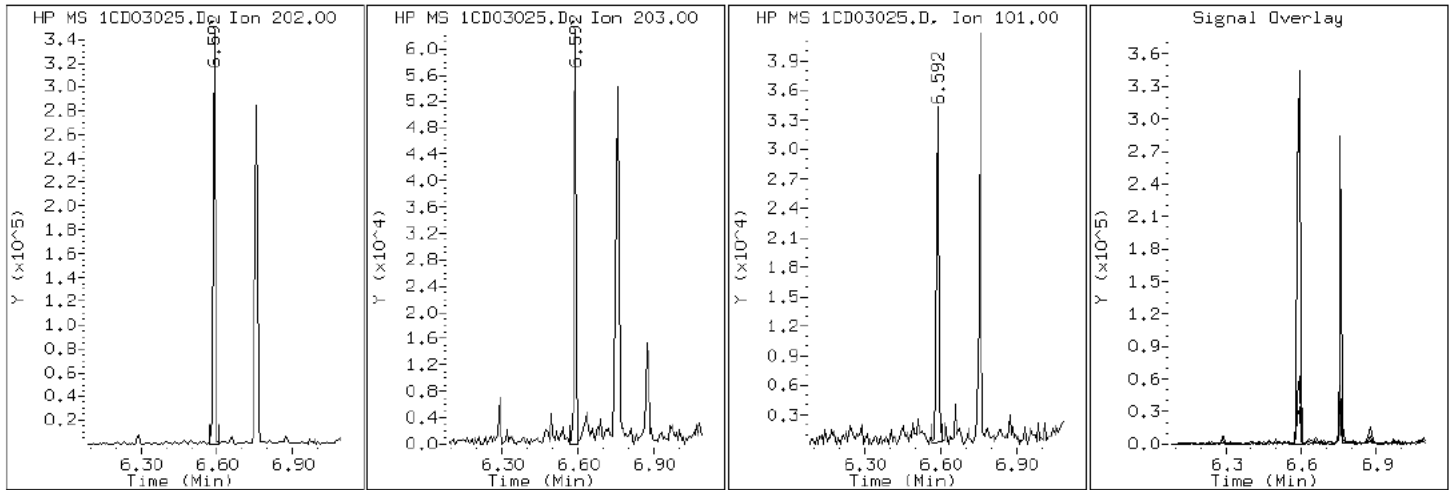
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

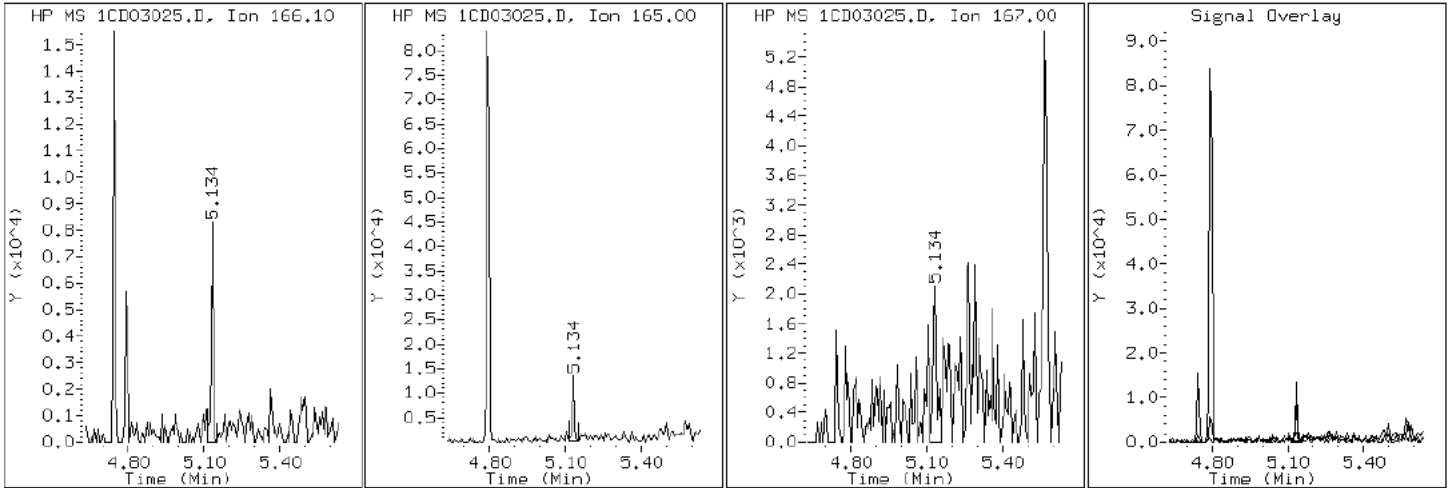
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

9 Fluorene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

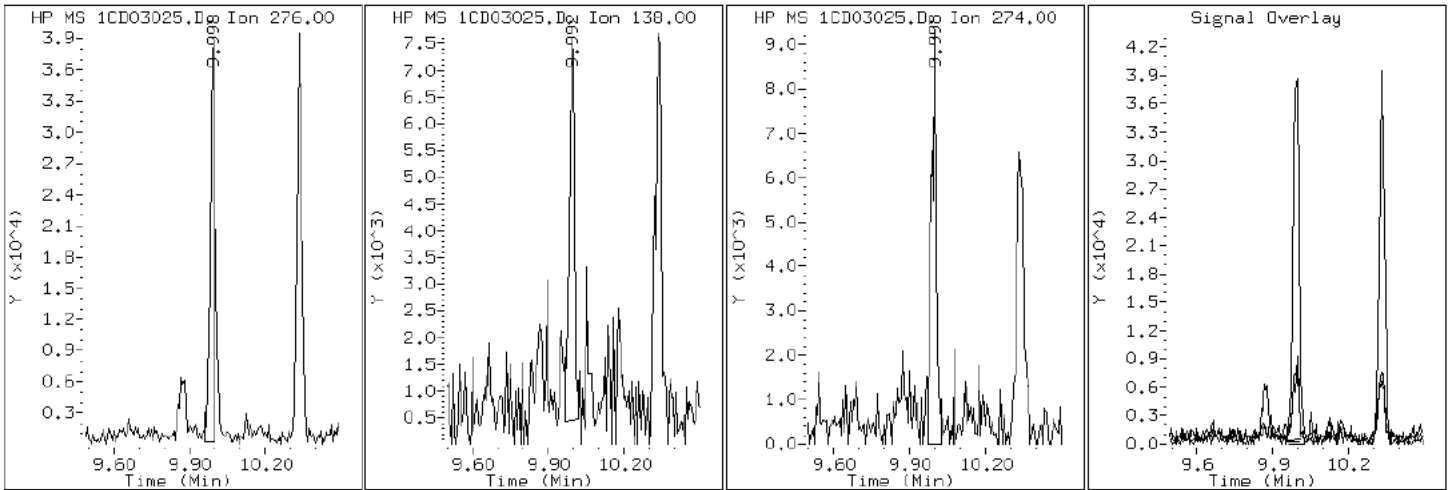
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

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



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

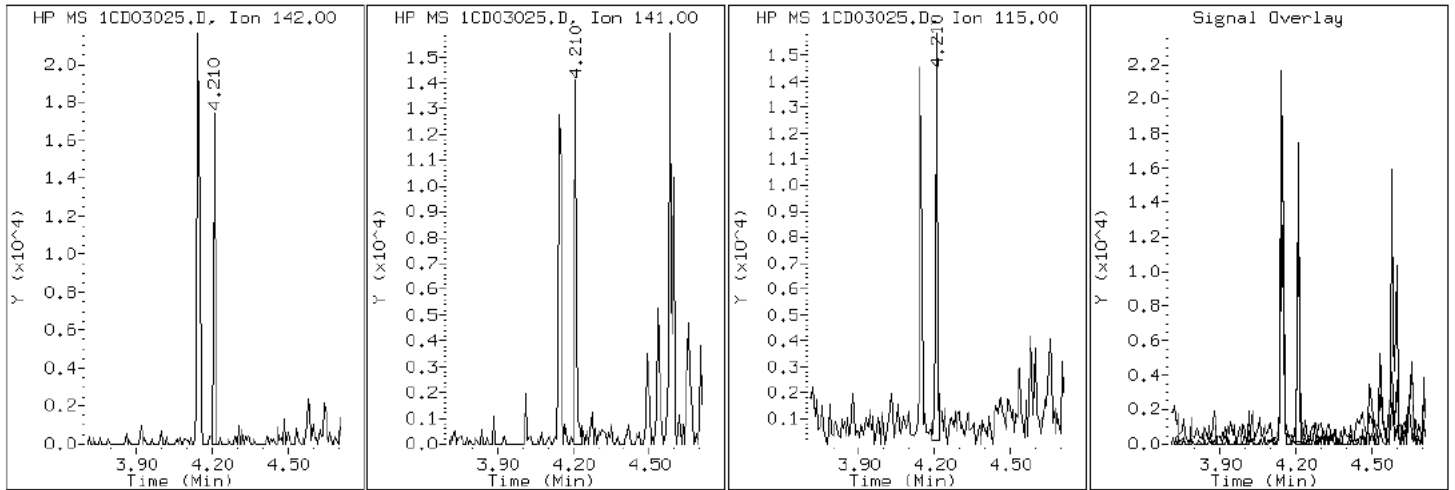
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD03025.D

Date: 03-APR-2013 18:37

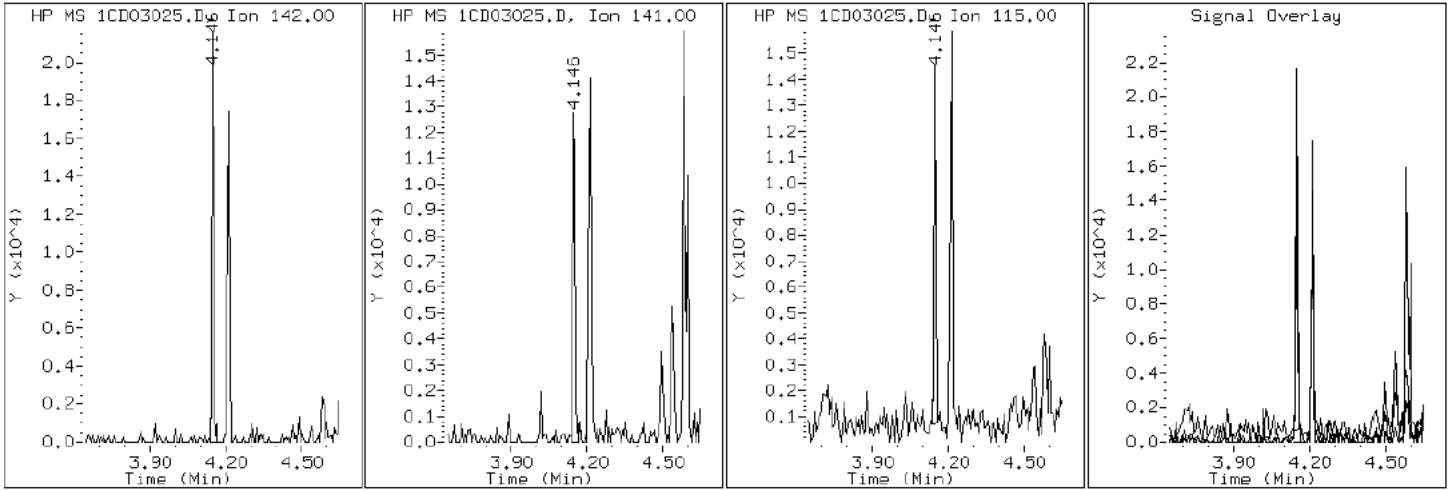
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

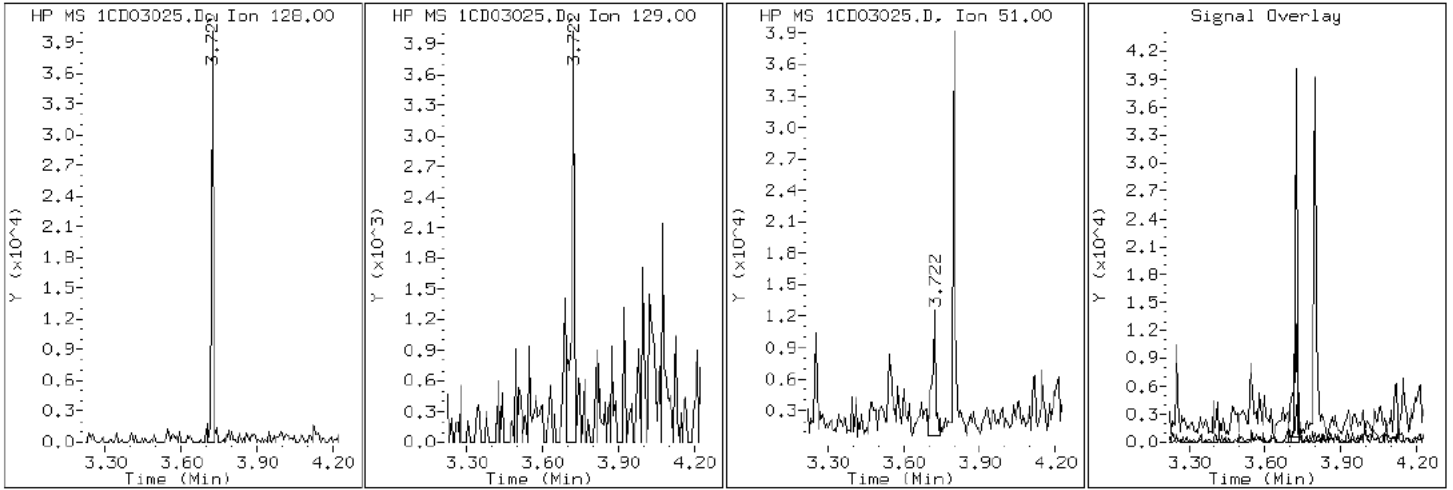
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

2 Naphthalene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

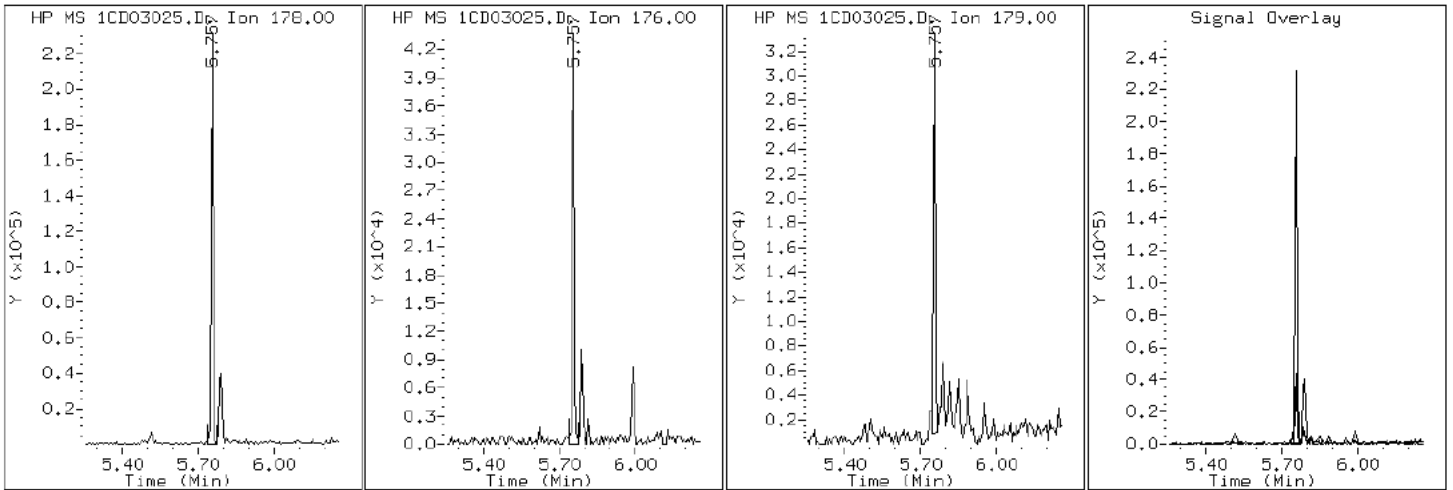
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03025.D

Date: 03-APR-2013 18:37

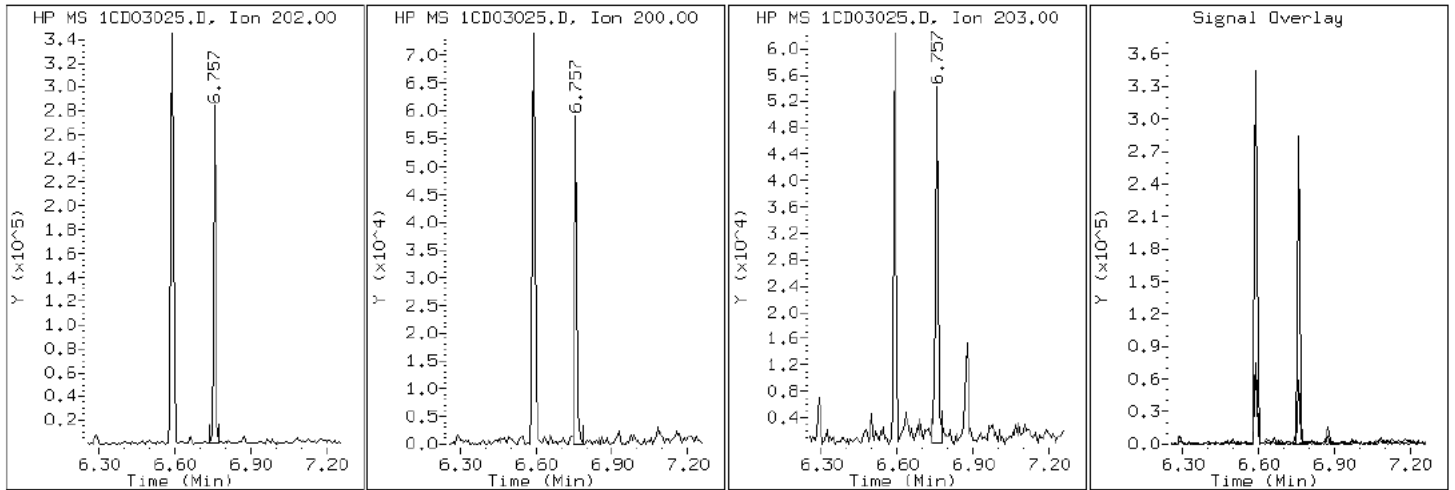
Client ID: CV0022A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-1-b

Operator: SCC

16 Pyrene

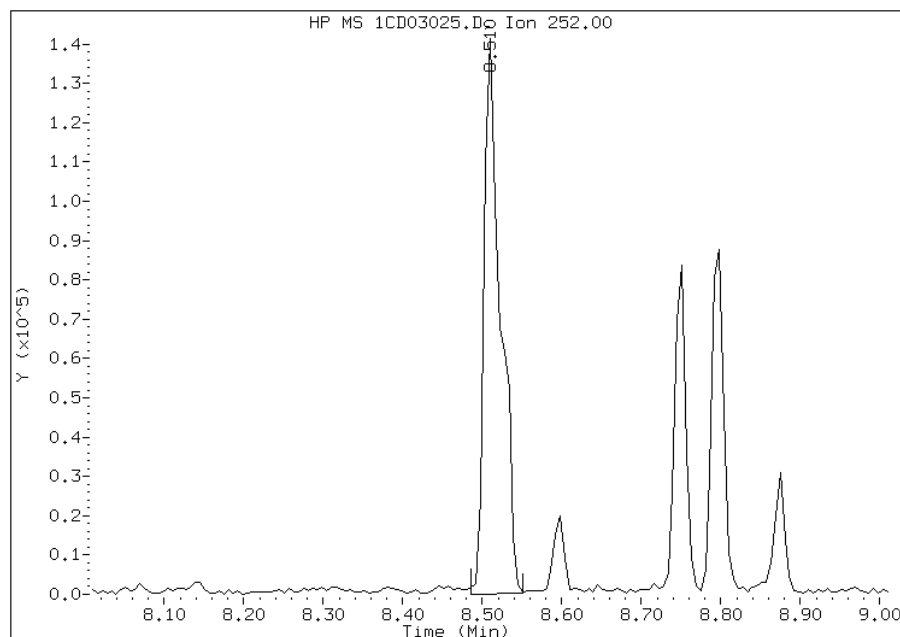


# Manual Integration Report

Data File: 1CD03025.D  
Inj. Date and Time: 03-APR-2013 18:37  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

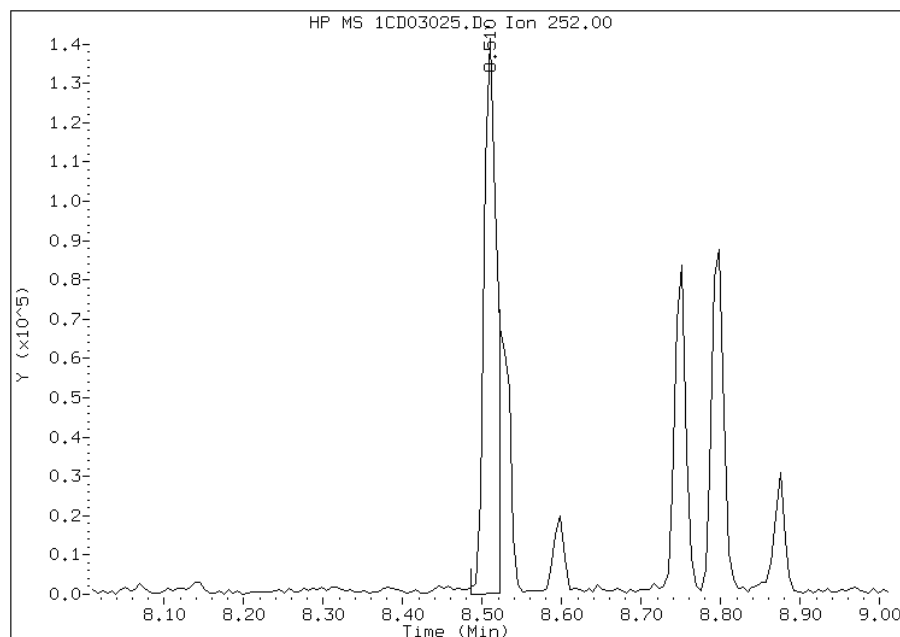
## Processing Integration Results

RT: 8.51  
Response: 203568  
Amount: 8  
Conc: 935



## Manual Integration Results

RT: 8.51  
Response: 157510  
Amount: 7  
Conc: 724



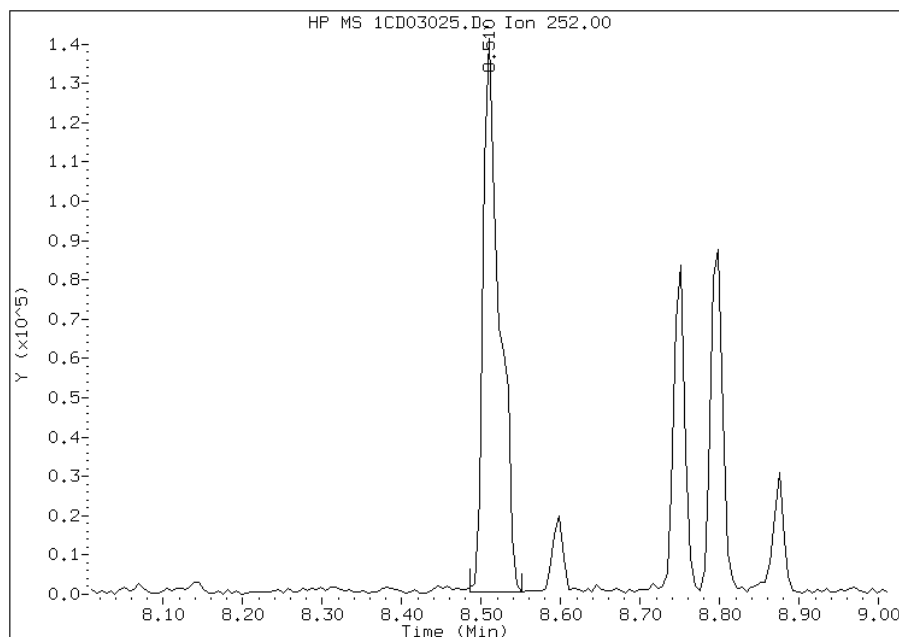
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:33  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03025.D  
Inj. Date and Time: 03-APR-2013 18:37  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

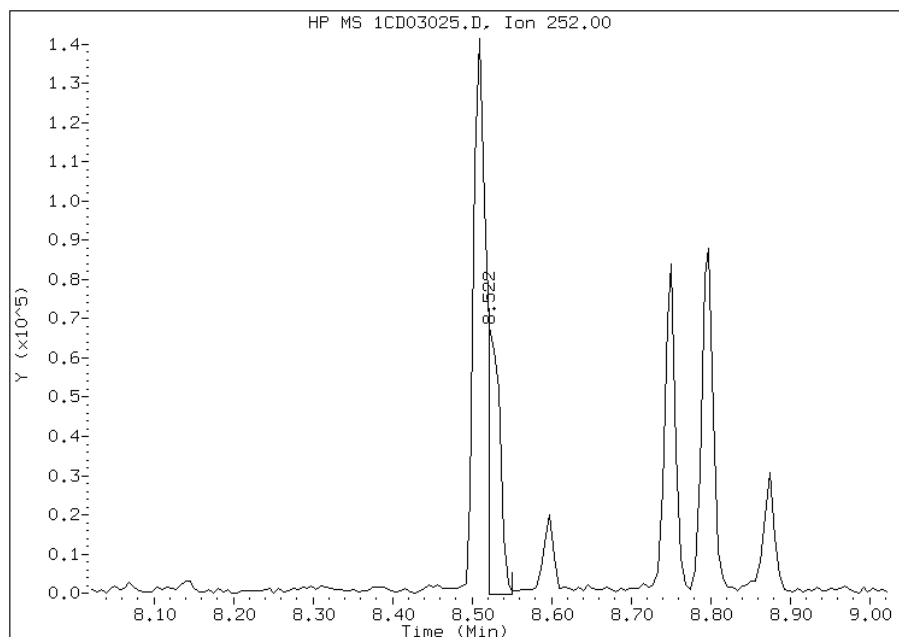
## Processing Integration Results

RT: 8.51  
Response: 201686  
Amount: 9  
Conc: 958



## Manual Integration Results

RT: 8.52  
Response: 70892  
Amount: 3  
Conc: 337



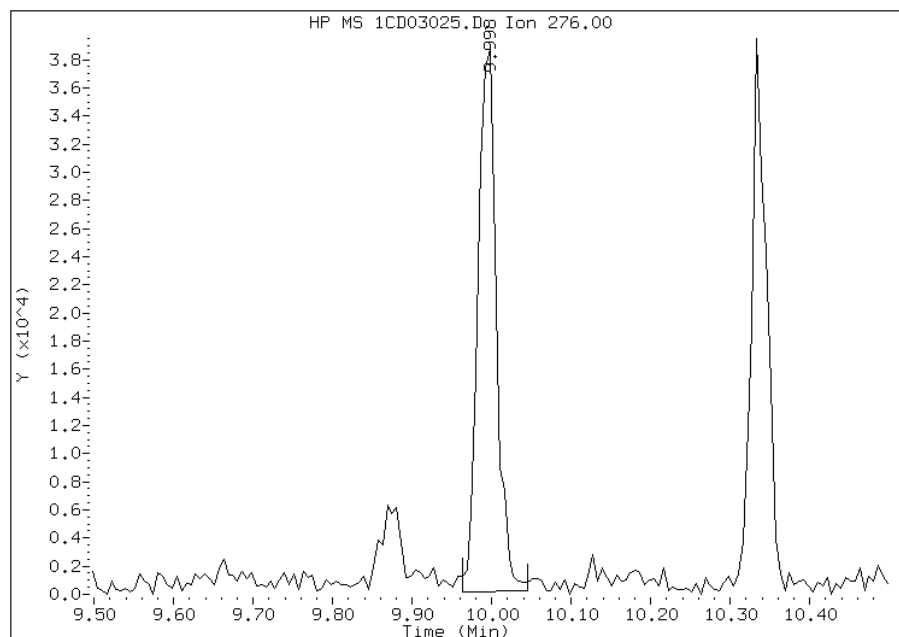
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:33  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03025.D  
Inj. Date and Time: 03-APR-2013 18:37  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

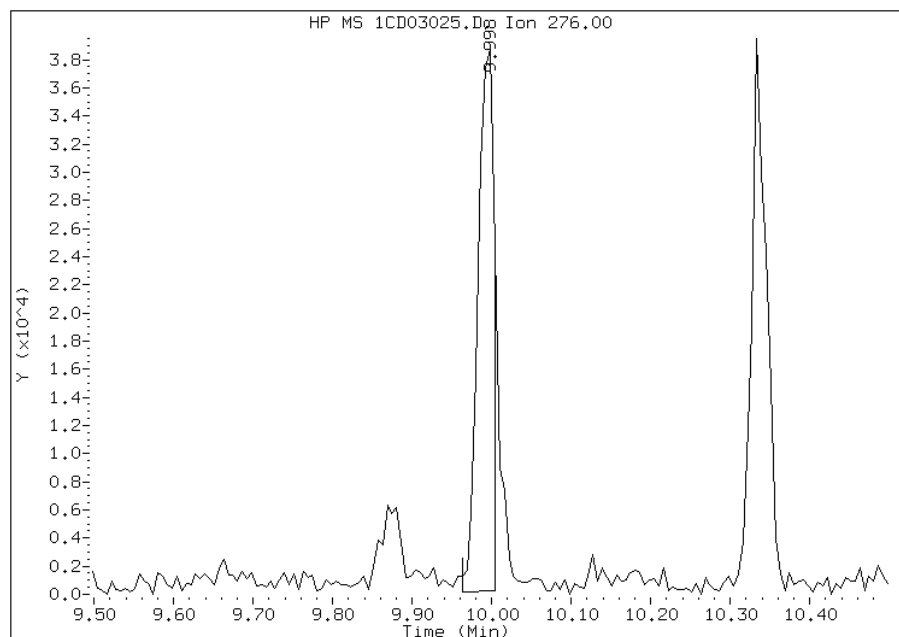
## Processing Integration Results

RT: 10.00  
Response: 61962  
Amount: 3  
Conc: 318



## Manual Integration Results

RT: 10.00  
Response: 54443  
Amount: 3  
Conc: 280



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:34  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0022A-CSD Lab Sample ID: 680-88767-2  
 Matrix: Solid Lab File ID: 1CD03026.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:00  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.98(g) Date Analyzed: 04/03/2013 18:55  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 39.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	J	160	33
208-96-8	Acenaphthylene	76		66	8.2
120-12-7	Anthracene	290		14	6.9
56-55-3	Benzo[a]anthracene	890		13	6.4
50-32-8	Benzo[a]pyrene	780		17	8.6
205-99-2	Benzo[b]fluoranthene	1400		20	10
191-24-2	Benzo[g,h,i]perylene	530		33	7.3
207-08-9	Benzo[k]fluoranthene	460		13	5.9
218-01-9	Chrysene	820		15	7.4
53-70-3	Dibenz(a,h)anthracene	140		33	6.8
206-44-0	Fluoranthene	1800		33	6.6
86-73-7	Fluorene	110		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	500		33	12
90-12-0	1-Methylnaphthalene	230		66	7.3
91-57-6	2-Methylnaphthalene	240		66	12
91-20-3	Naphthalene	240		66	7.3
85-01-8	Phenanthrene	1300		13	6.4
129-00-0	Pyrene	1400		33	6.1

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03026.D  
 Lab Smp Id: 680-88767-A-2-B Client Smp ID: CV0022A-CSD  
 Inj Date : 03-APR-2013 18:55  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-2-b  
 Misc Info : 680-88767-A-2-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	39.294	% 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		3.710	3.704	(1.000)	581925	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	429297	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	799729	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	81742	6.98746	768.3741
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	1022646	40.0000	
* 23 Perylene-d12	264		8.851	8.851	(1.000)	832079	40.0000	
2 Naphthalene	128		3.721	3.722	(1.003)	32440	2.17039	238.6665
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	22631	2.22431	244.5955
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	19030	2.07865	228.5783
5 Acenaphthylene	152		4.704	4.704	(0.982)	12317	0.69323	76.2308
7 Acenaphthene	154		4.816	4.816	(1.005)	8008	0.72769	80.0204
9 Fluorene	166		5.133	5.133	(1.071)	14190	0.96726	106.3646
11 Phenanthrene	178		5.757	5.757	(1.003)	278672	11.9644	1315.6596
12 Anthracene	178		5.792	5.792	(1.009)	62576	2.65028	291.4377

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	36166	1.78786	196.6014
15 Fluoranthene	202	6.592	6.592	(1.149)	422074	16.4085	1804.3572
16 Pyrene	202	6.757	6.757	(0.880)	358223	12.6455	1390.5608
17 Benzo(a)anthracene	228	7.674	7.668	(0.999)	237118	8.13797	894.8900
19 Chrysene	228	7.698	7.698	(1.002)	216093	7.41544	815.4377
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	295581	12.5653	1381.7416(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	95643	4.20380	462.2704(MH)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	156493	7.06613	777.0261
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.130)	94921	4.51245	496.2106(M)
25 Dibenzo(a,h)anthracene	278	10.003	10.009	(1.130)	24689	1.27055	139.7160
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.169)	104108	4.84920	533.2417

QC Flag Legend

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

Data File: 1CD03026.D

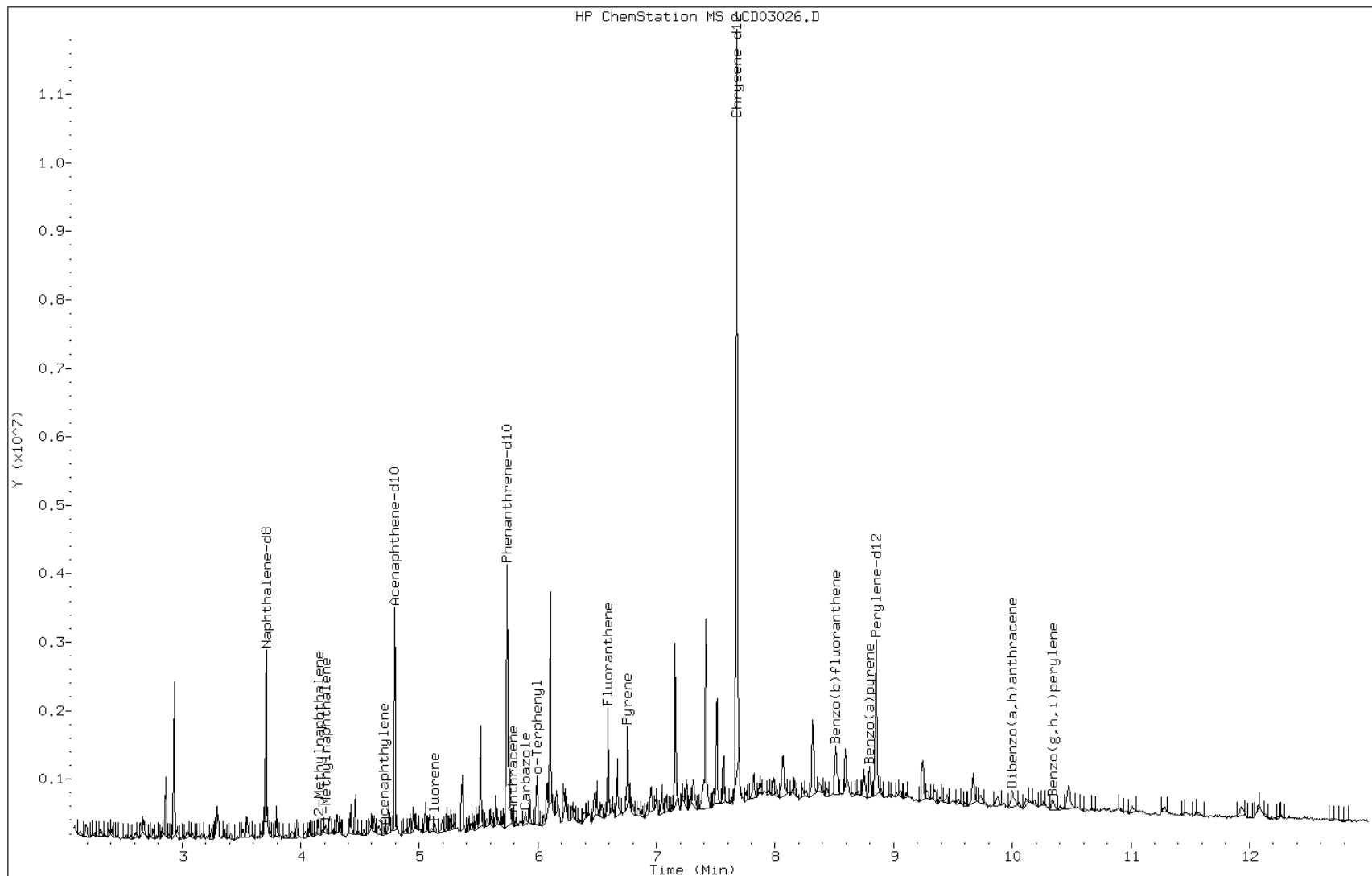
Date: 03-APR-2013 18:55

Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

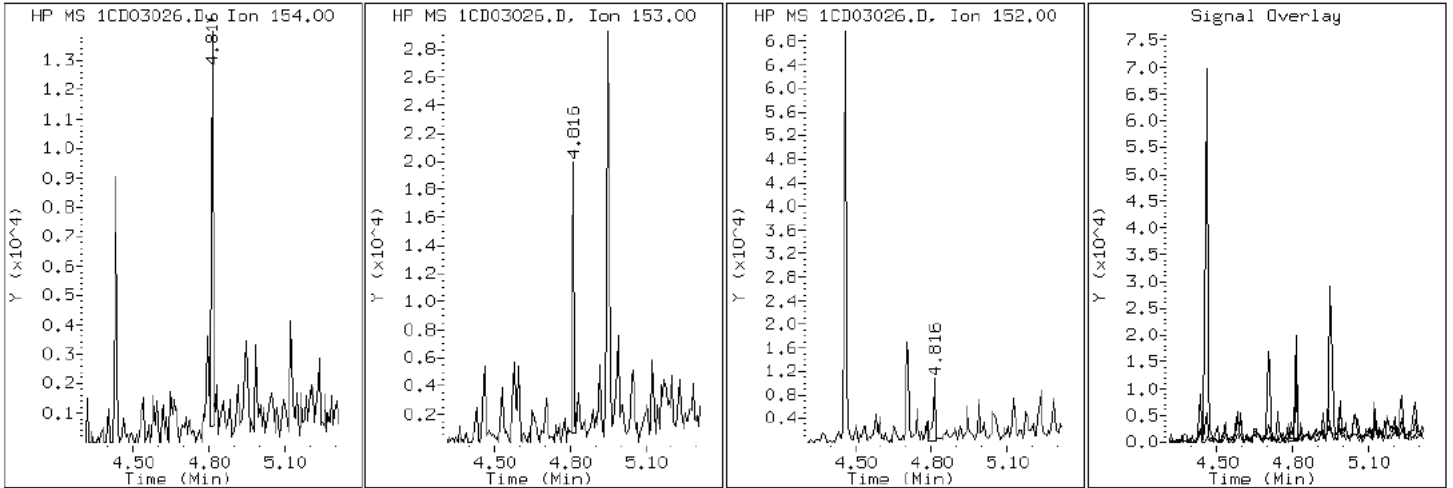
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

7 Acenaphthene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

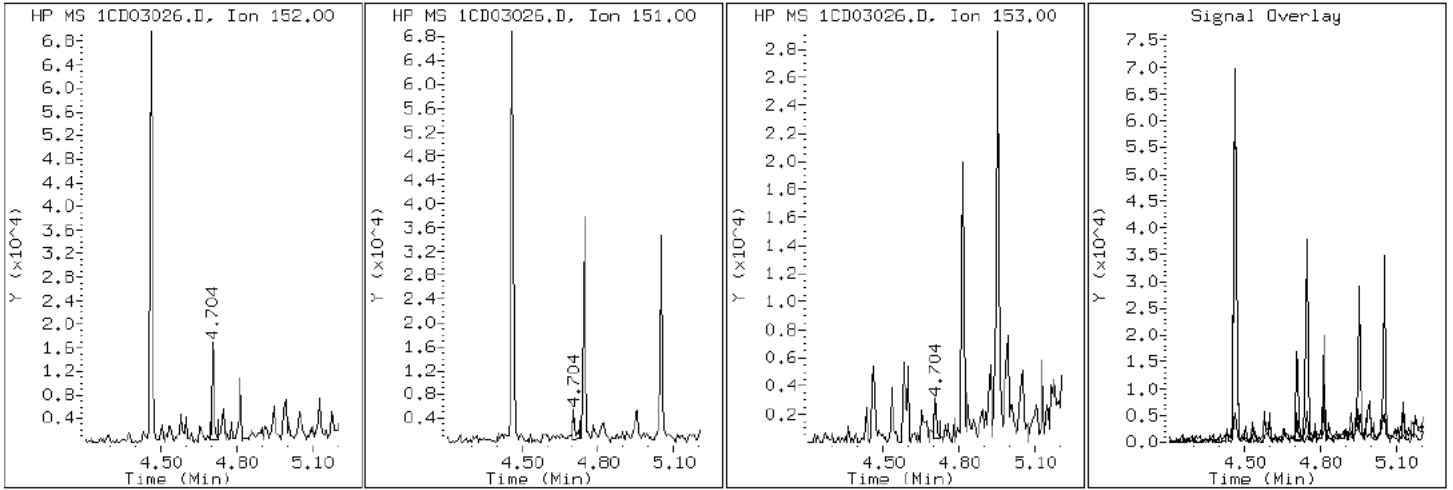
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

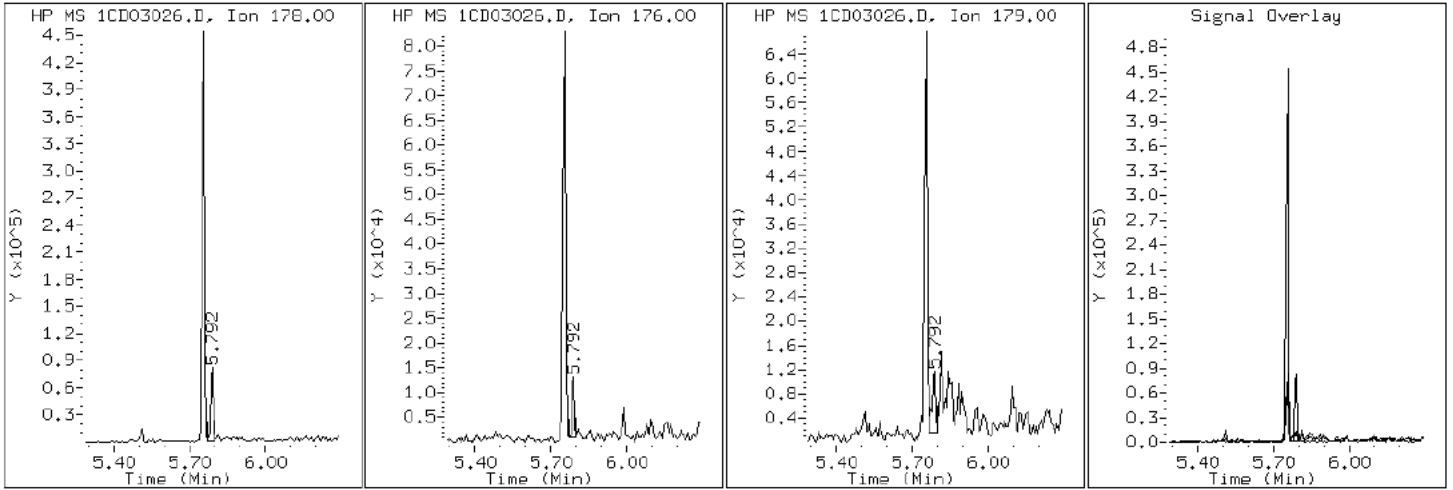
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

12 Anthracene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

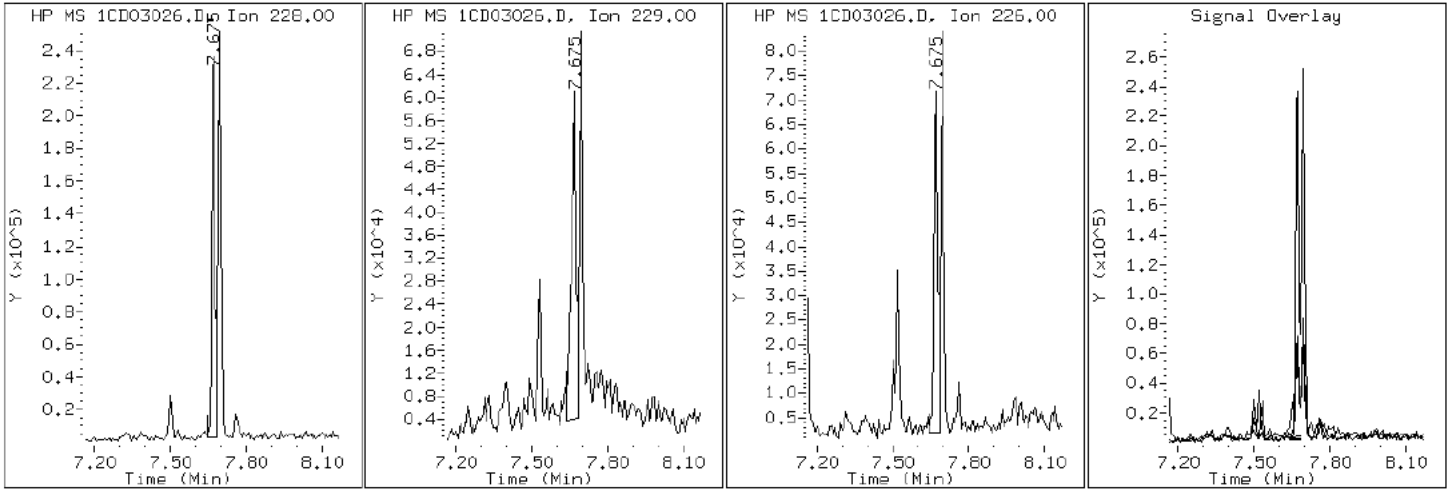
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

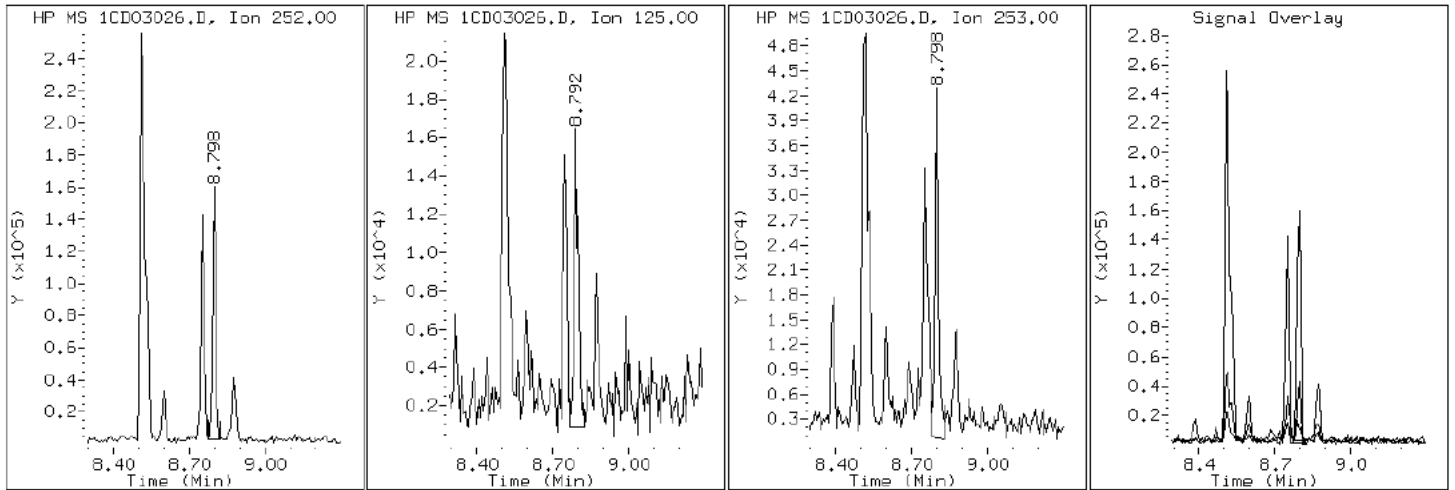
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD03026.D

Date: 03-APR-2013 18:55

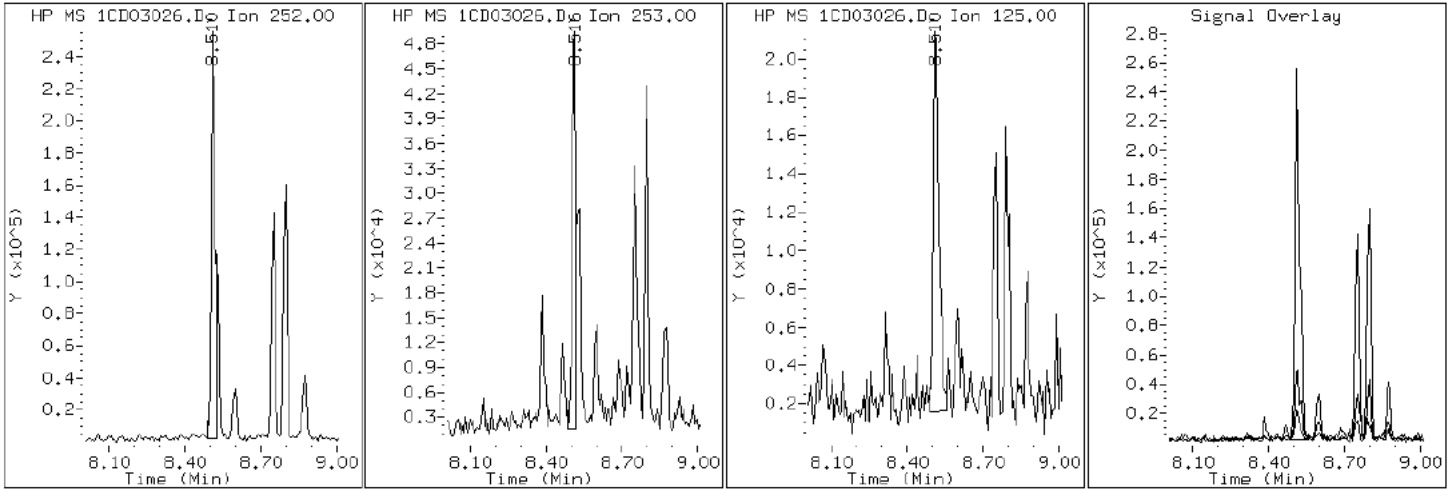
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

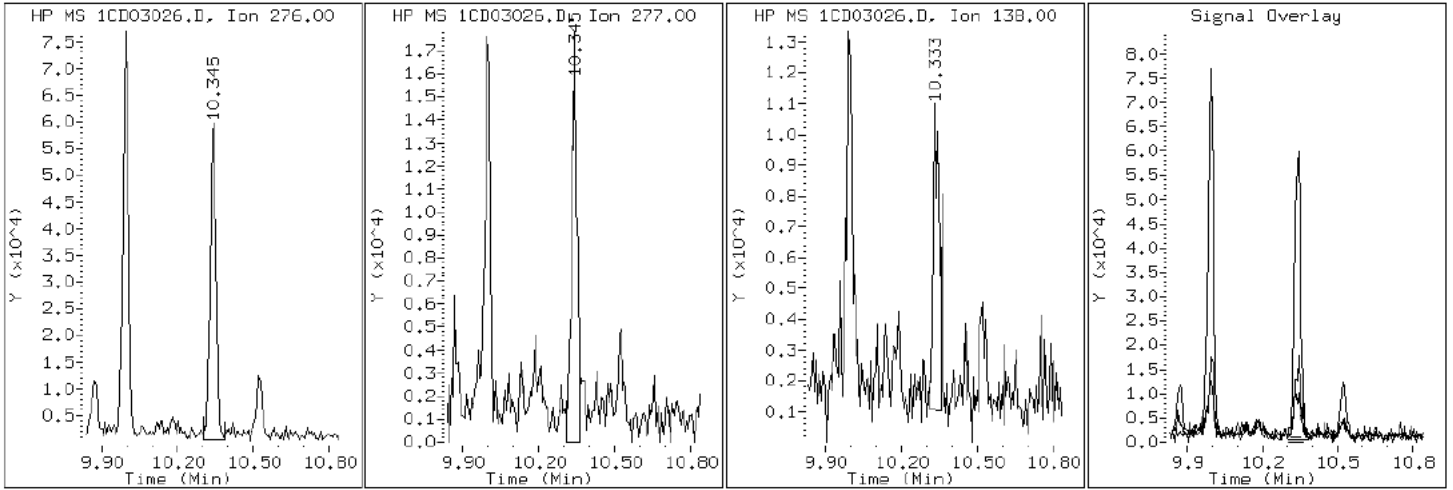
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

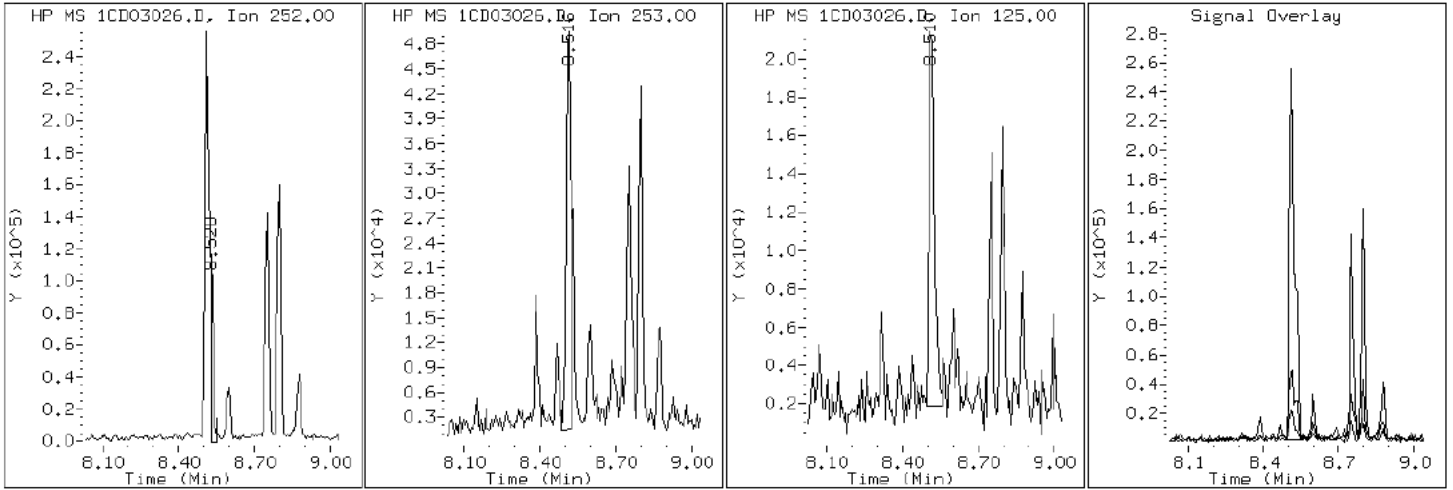
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

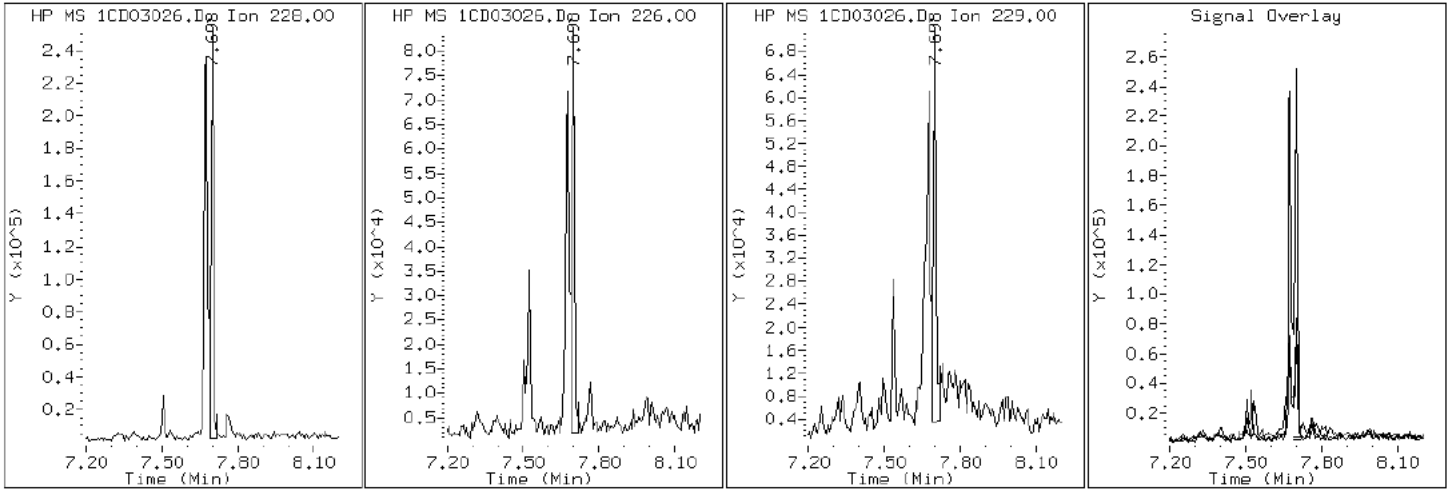
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

19 Chrysene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

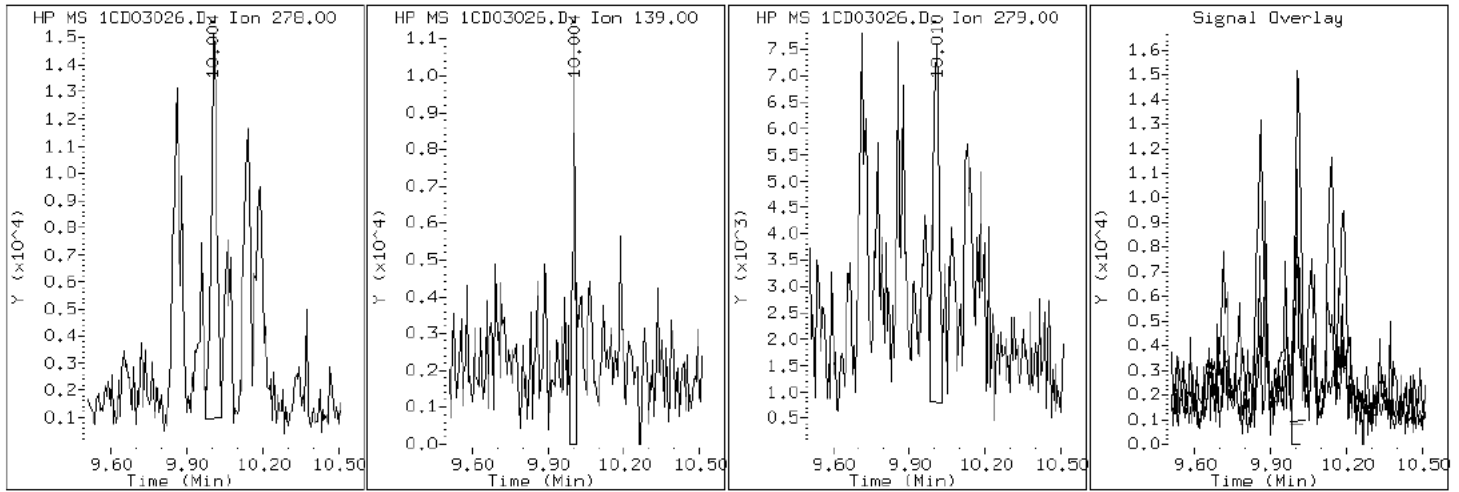
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

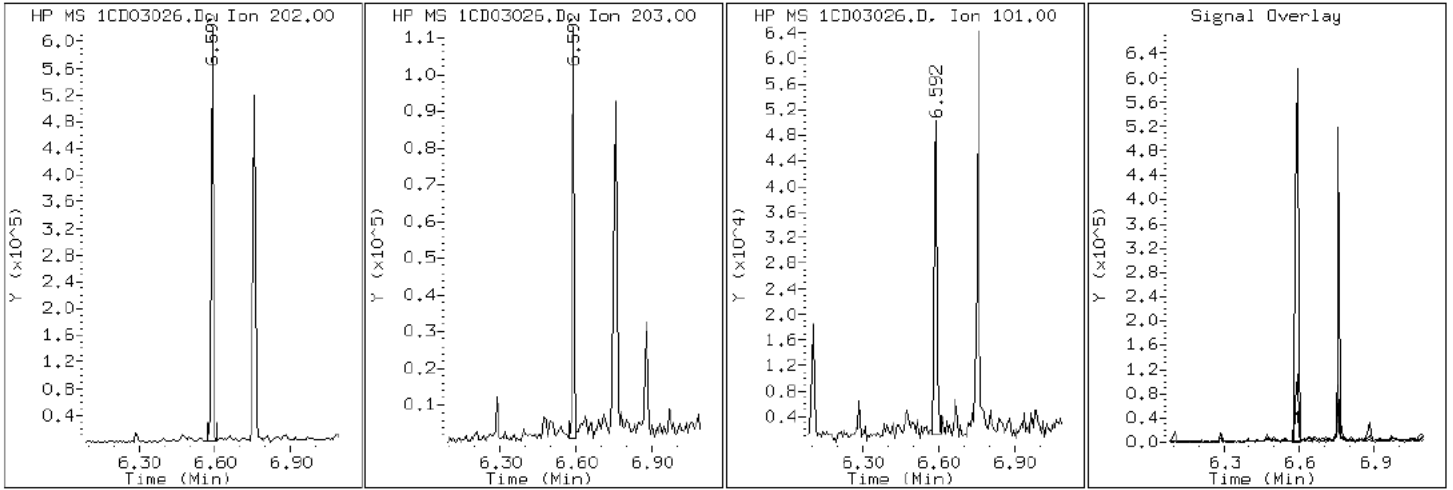
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

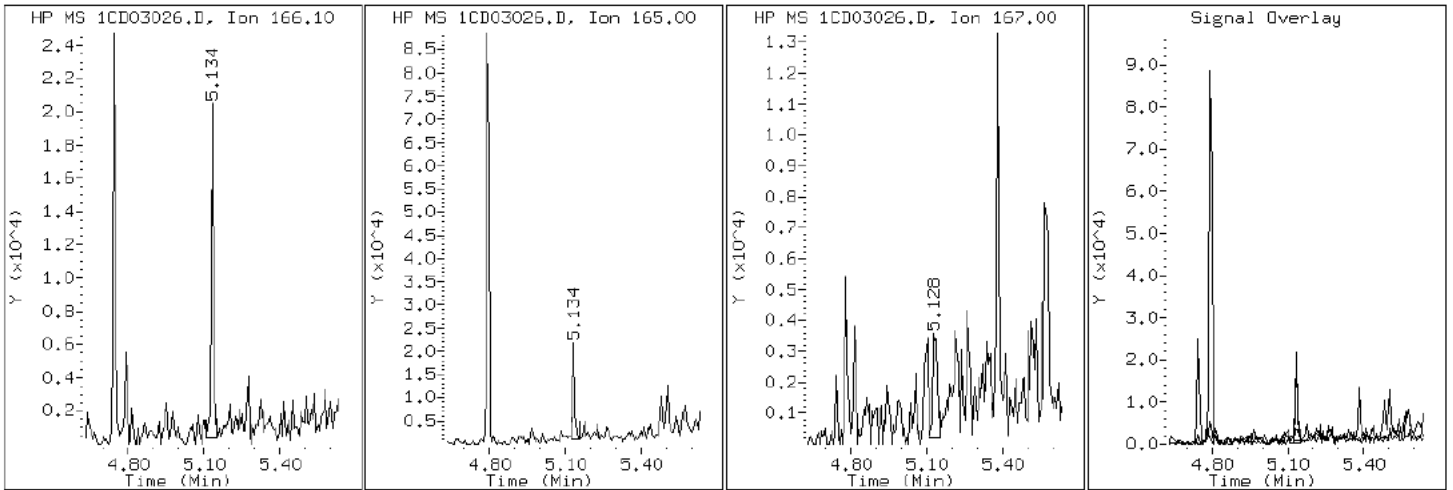
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

9 Fluorene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

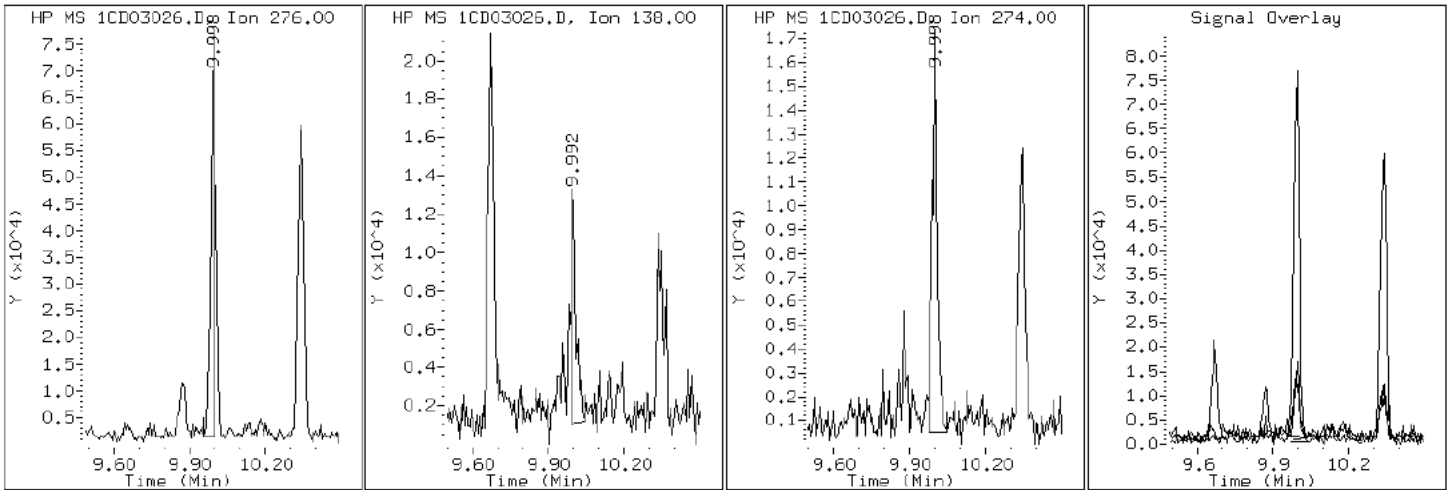
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

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





Data File: 1CD03026.D

Date: 03-APR-2013 18:55

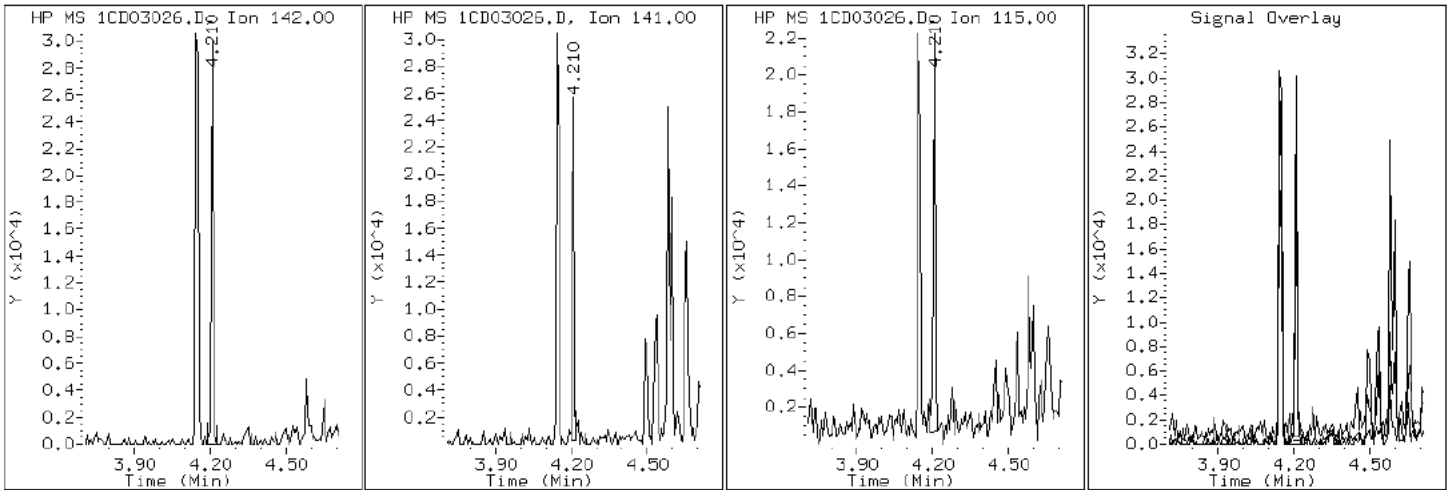
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

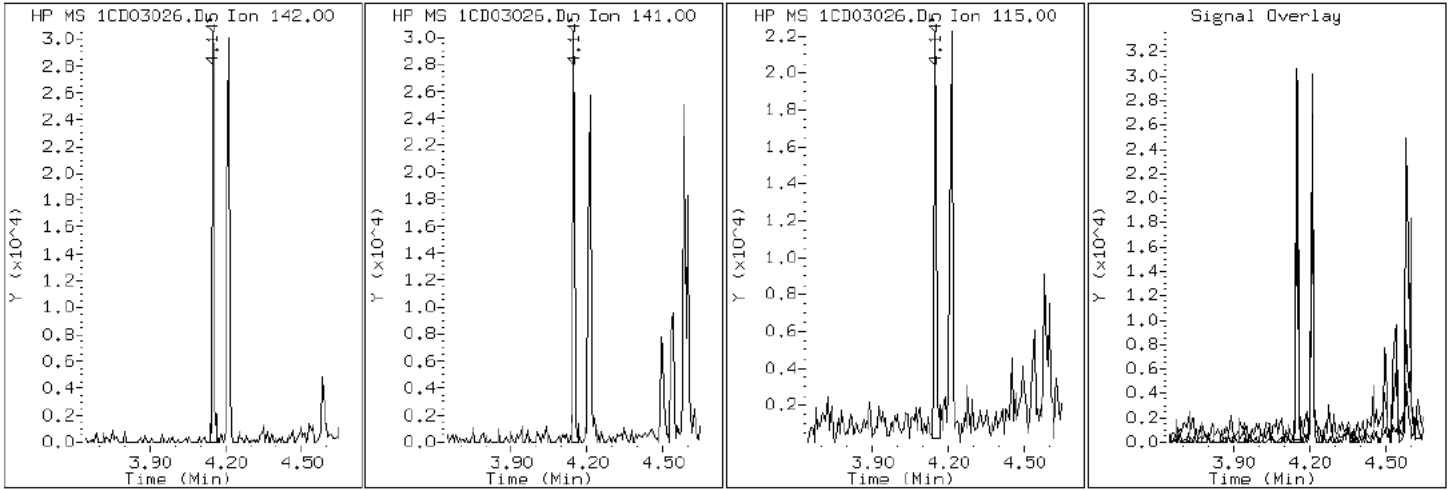
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

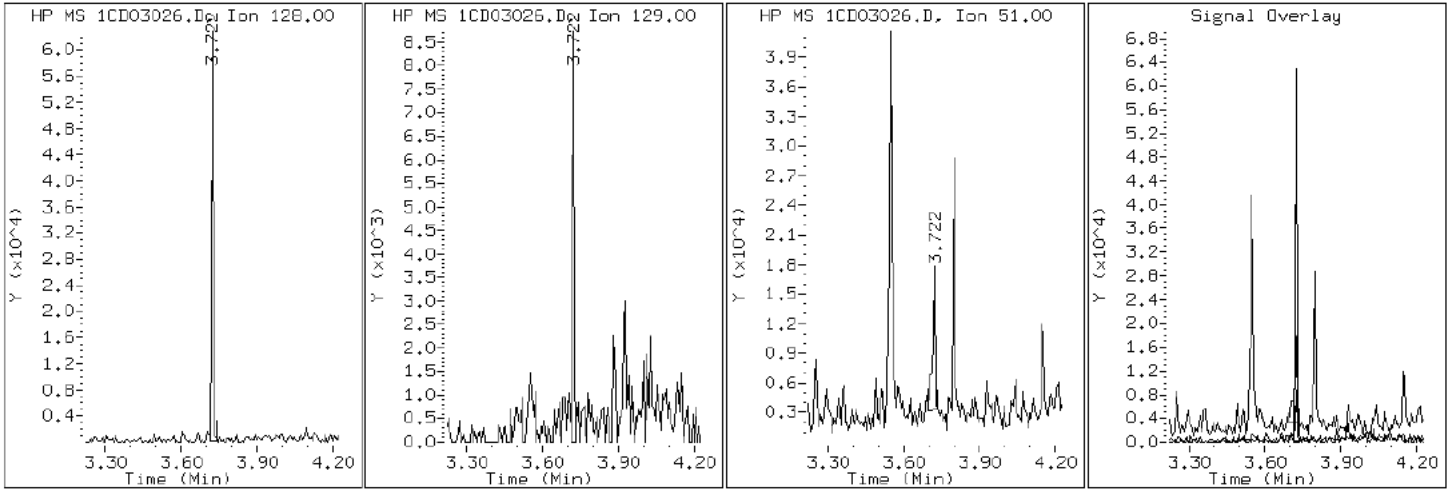
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

2 Naphthalene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

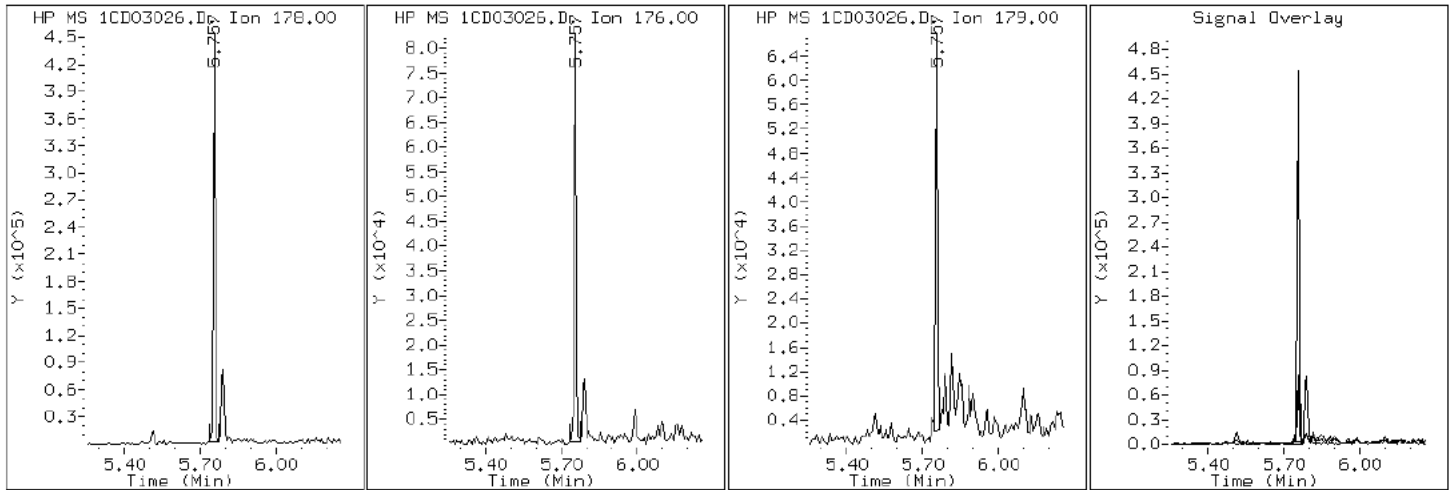
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03026.D

Date: 03-APR-2013 18:55

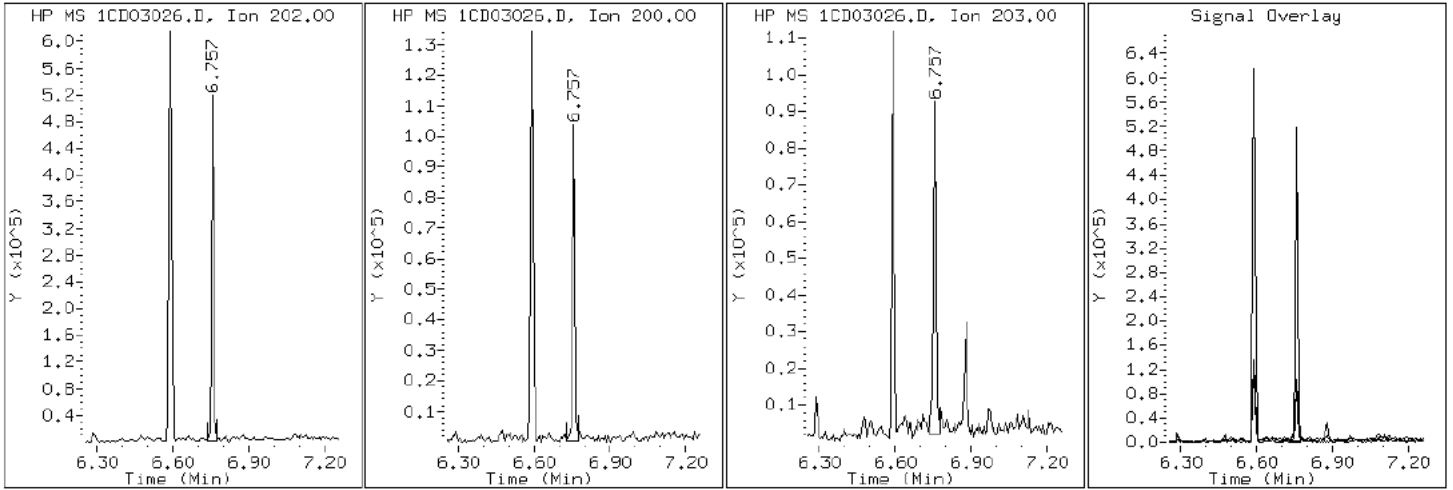
Client ID: CV0022A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-2-b

Operator: SCC

16 Pyrene

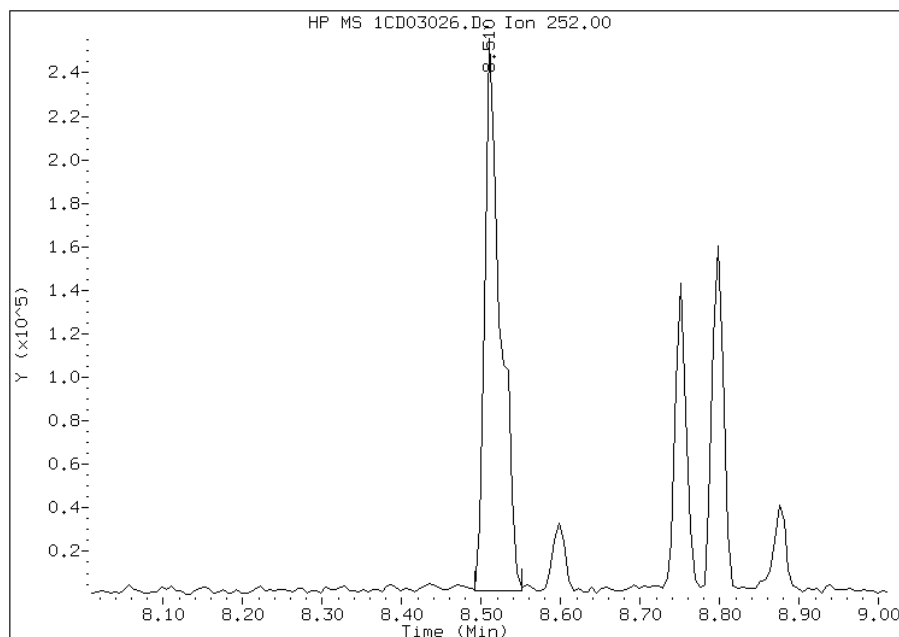


# Manual Integration Report

Data File: 1CD03026.D  
Inj. Date and Time: 03-APR-2013 18:55  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

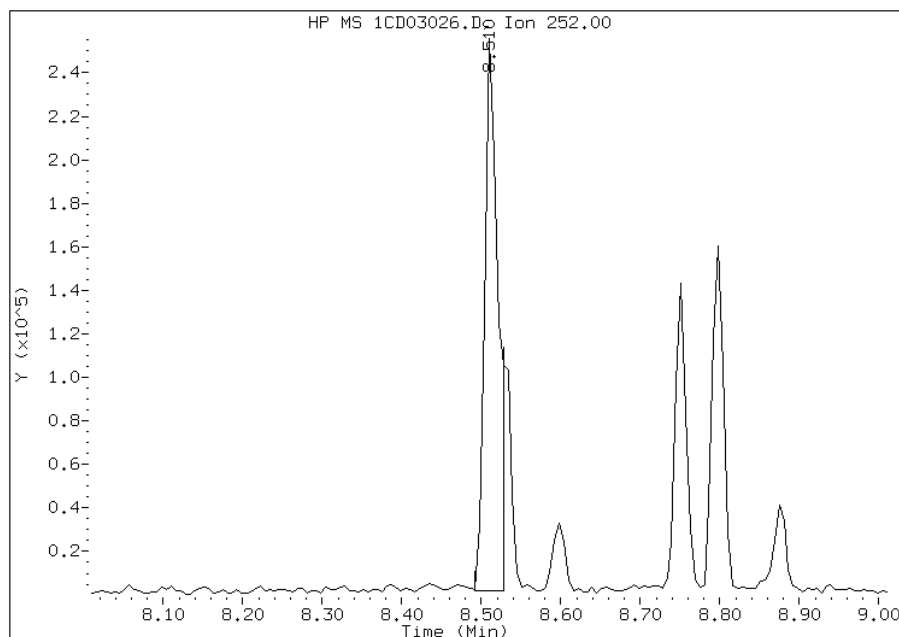
## Processing Integration Results

RT: 8.51  
Response: 349746  
Amount: 15  
Conc: 1635



## Manual Integration Results

RT: 8.51  
Response: 295581  
Amount: 13  
Conc: 1382



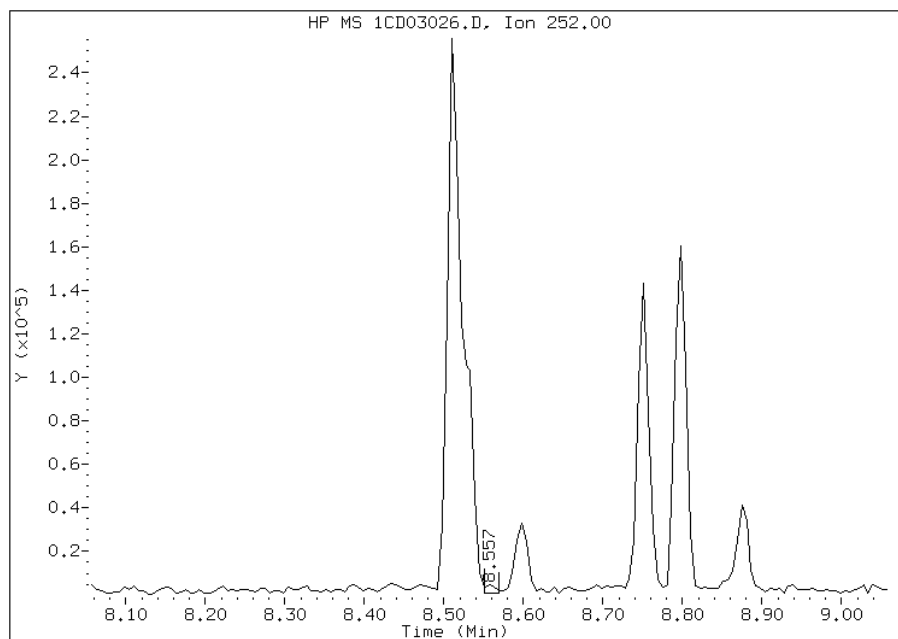
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:35  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03026.D  
Inj. Date and Time: 03-APR-2013 18:55  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

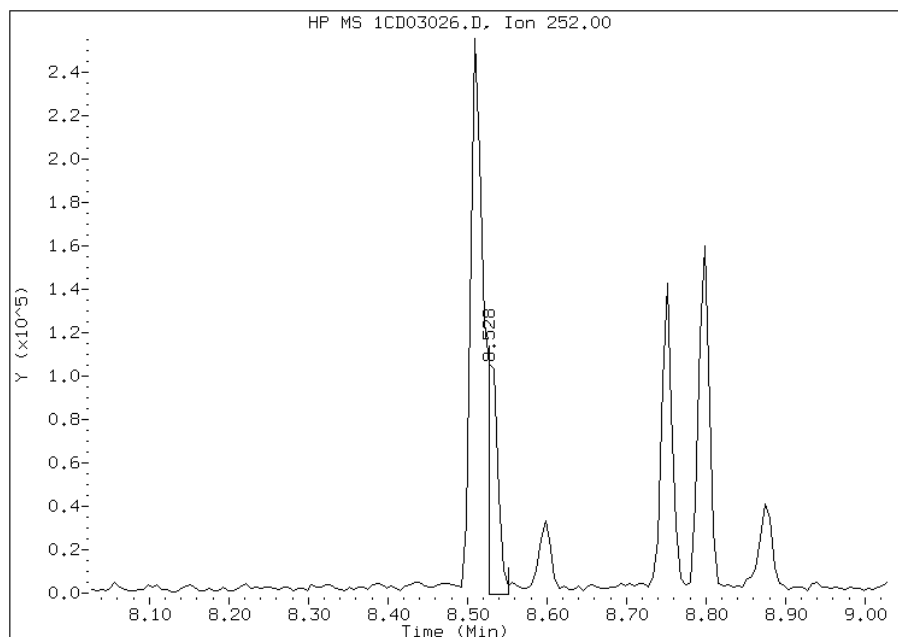
## Processing Integration Results

RT: 8.56  
Response: 3374  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 8.53  
Response: 95643  
Amount: 4  
Conc: 462



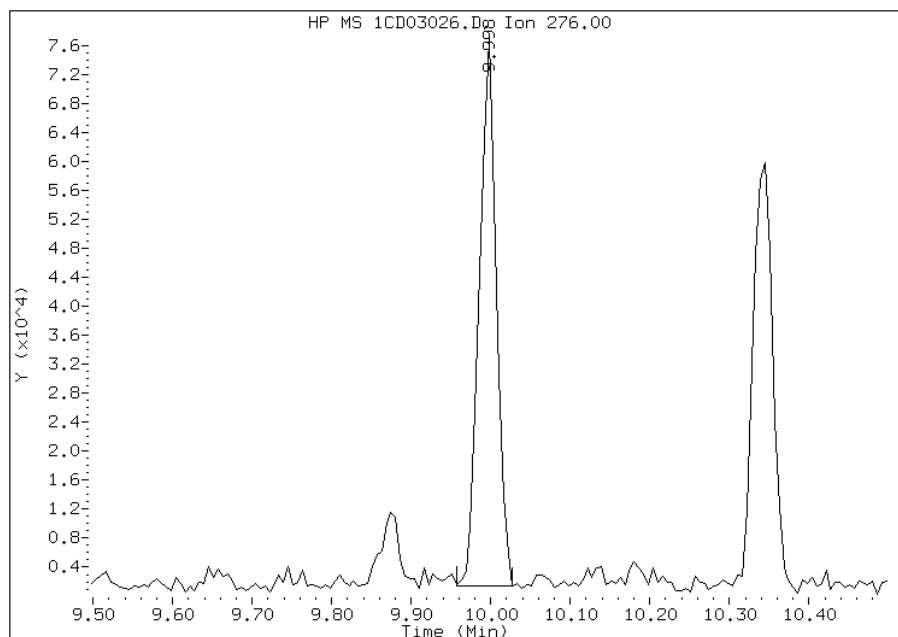
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03026.D  
Inj. Date and Time: 03-APR-2013 18:55  
Instrument ID: BSMC5973.i  
Client ID: CV0022A-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

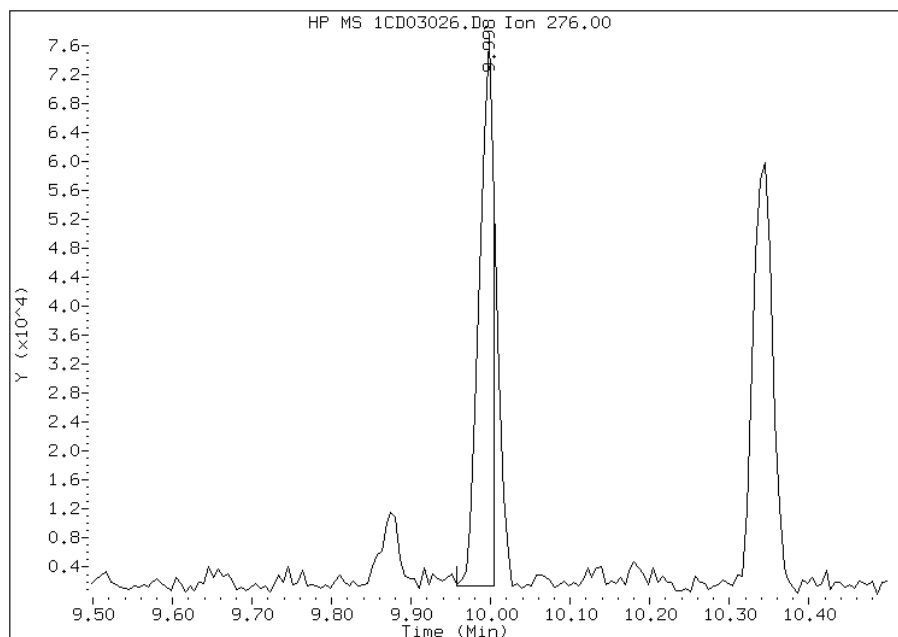
## Processing Integration Results

RT: 10.00  
Response: 111057  
Amount: 5  
Conc: 581



## Manual Integration Results

RT: 10.00  
Response: 94921  
Amount: 5  
Conc: 496



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:35  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509AB-GS Lab Sample ID: 680-88767-3  
 Matrix: Solid Lab File ID: 1CD03027.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:50  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/03/2013 19:13  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	56	J	220	27
120-12-7	Anthracene	190		46	23
56-55-3	Benzo[a]anthracene	600		43	21
50-32-8	Benzo[a]pyrene	440		56	28
205-99-2	Benzo[b]fluoranthene	760		66	33
191-24-2	Benzo[g,h,i]perylene	290		110	24
207-08-9	Benzo[k]fluoranthene	260		43	20
218-01-9	Chrysene	720		49	24
53-70-3	Dibenz(a,h)anthracene	130		110	22
206-44-0	Fluoranthene	1200		110	22
86-73-7	Fluorene	150		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	270		110	39
90-12-0	1-Methylnaphthalene	150	J	220	24
91-57-6	2-Methylnaphthalene	140	J	220	39
91-20-3	Naphthalene	140	J	220	24
85-01-8	Phenanthrene	900		43	21
129-00-0	Pyrene	980		110	20

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03027.D  
 Lab Smp Id: 680-88767-A-3-B Client Smp ID: CV0509AB-GS  
 Inj Date : 03-APR-2013 19:13  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-3-b  
 Misc Info : 680-88767-A-3-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 27  
 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	14.960	Weight Extracted
M	26.105	% 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		3.710	3.704	(1.000)	587398	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	427058	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	764581	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	15984	2.00617	725.9096
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	822329	40.0000	
* 23 Perylene-d12	264		8.851	8.851	(1.000)	805513	40.0000	
2 Naphthalene	128		3.722	3.722	(1.003)	5691	0.37721	136.4881
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	3919	0.38159	138.0752
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	3731	0.40374	146.0889
5 Acenaphthylene	152		4.704	4.704	(0.982)	2724	0.15412	55.7654
9 Fluorene	166		5.133	5.133	(1.071)	5936	0.40675	147.1773
11 Phenanthrene	178		5.757	5.757	(1.003)	55352	2.48570	899.4230
12 Anthracene	178		5.792	5.792	(1.009)	11608	0.51423	186.0697
13 Carbazole	167		5.898	5.898	(1.028)	7081	0.36614	132.4833

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.592	6.592	(1.149)	79707	3.24113	1172.7647
16 Pyrene	202	6.757	6.757	(0.880)	61881	2.71656	982.9575
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	36315	1.65974	600.5596
19 Chrysene	228	7.698	7.698	(1.002)	46858	1.99968	723.5603
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	47743	2.09652	758.6006
21 Benzo(k)fluoranthene	252	8.533	8.533	(0.964)	16058	0.72908	263.8077
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	25798	1.20328	435.3914
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.130)	15287	0.75070	271.6309(M)
25 Dibenzo(a,h)anthracene	278	10.003	10.009	(1.130)	6536	0.34745	125.7210
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	16724	0.80467	291.1610

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03027.D

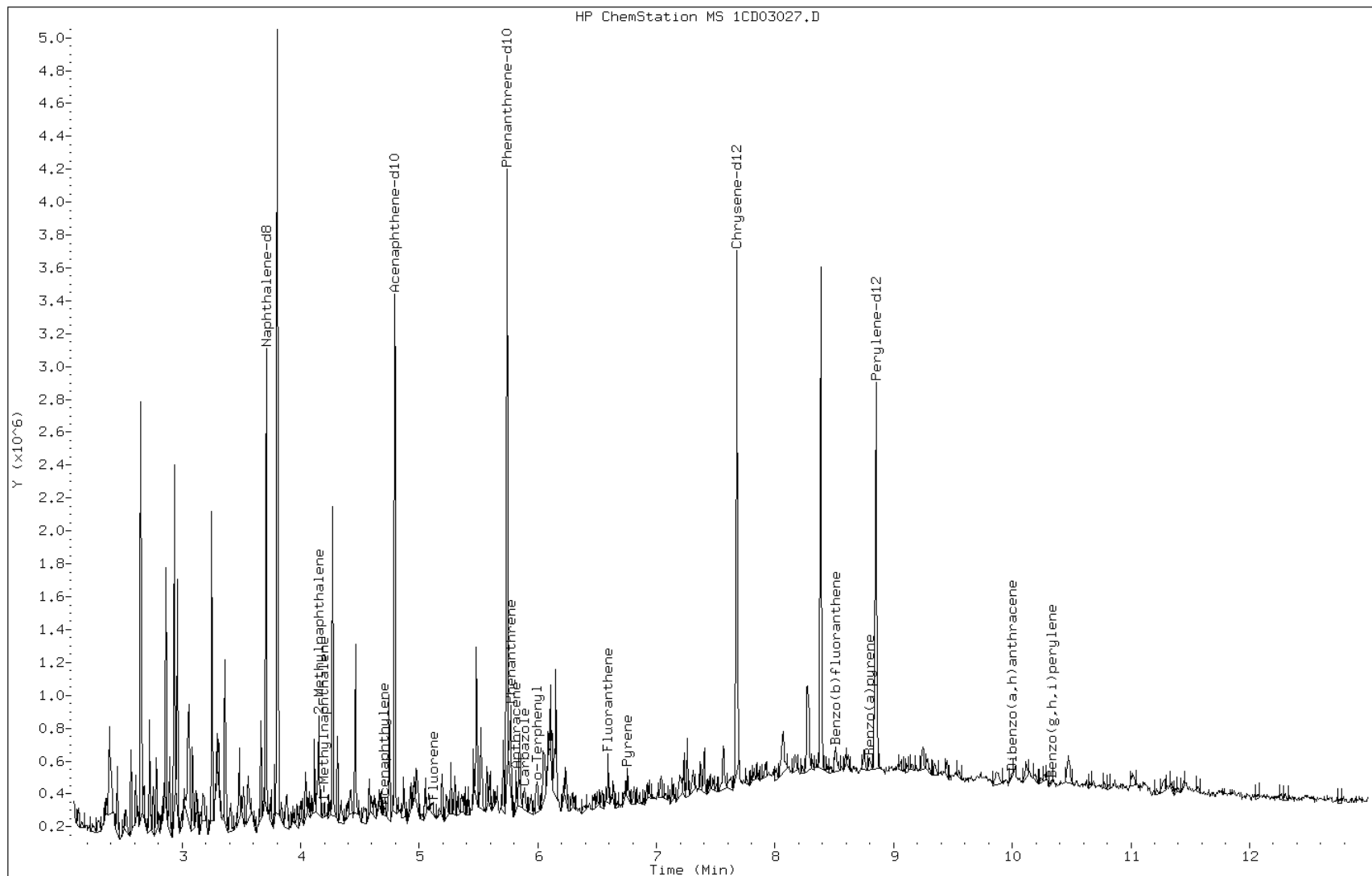
Date: 03-APR-2013 19:13

Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

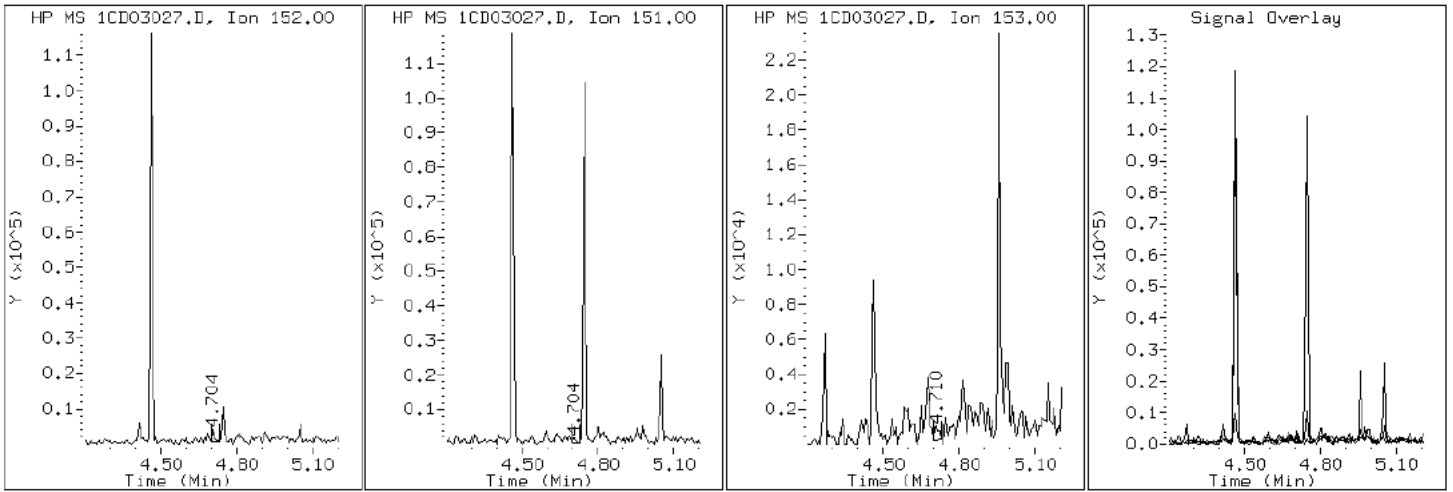
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

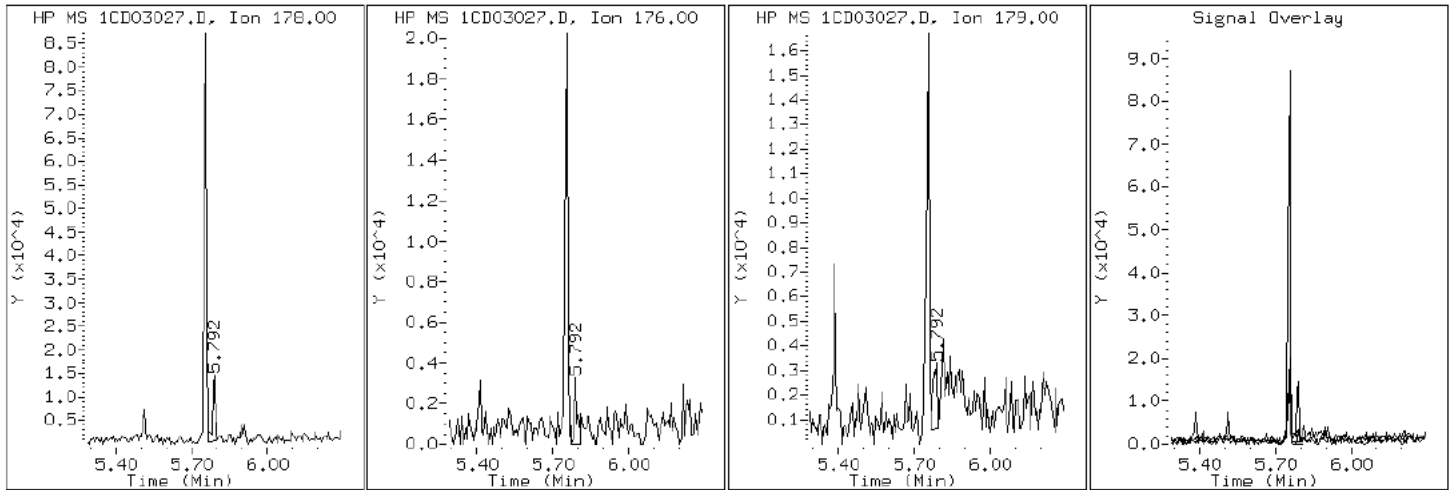
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

12 Anthracene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

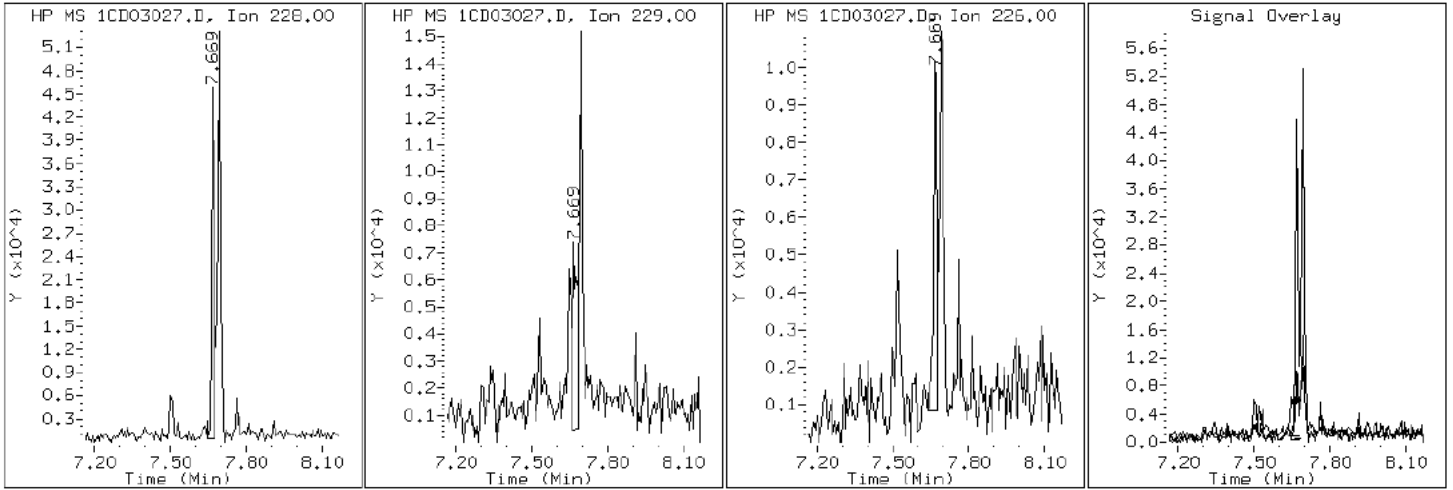
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

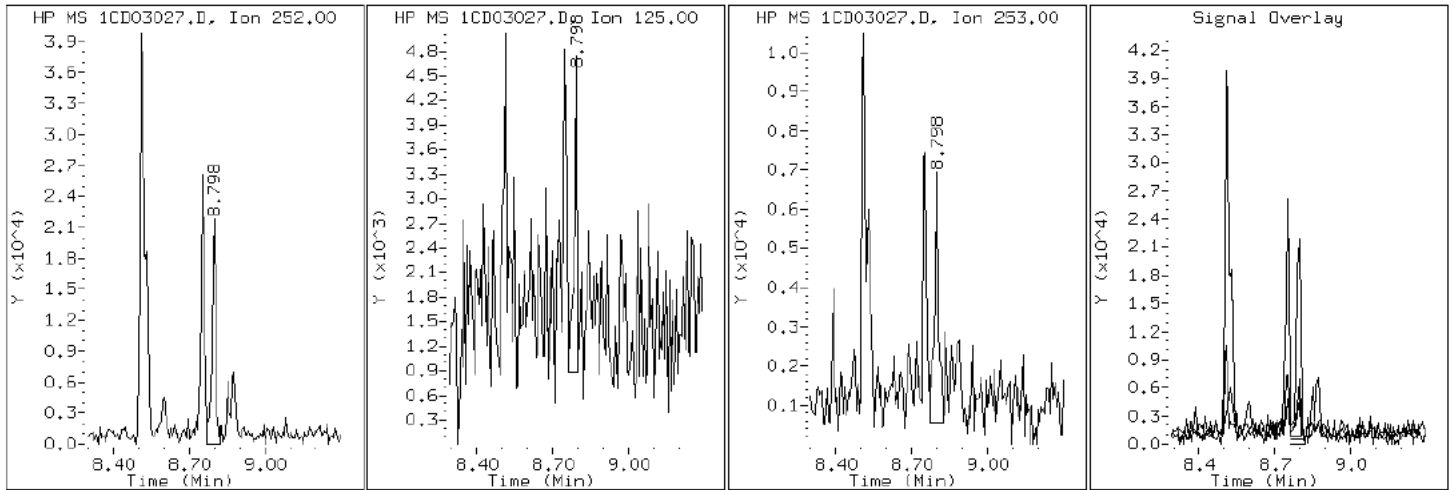
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD03027.D

Date: 03-APR-2013 19:13

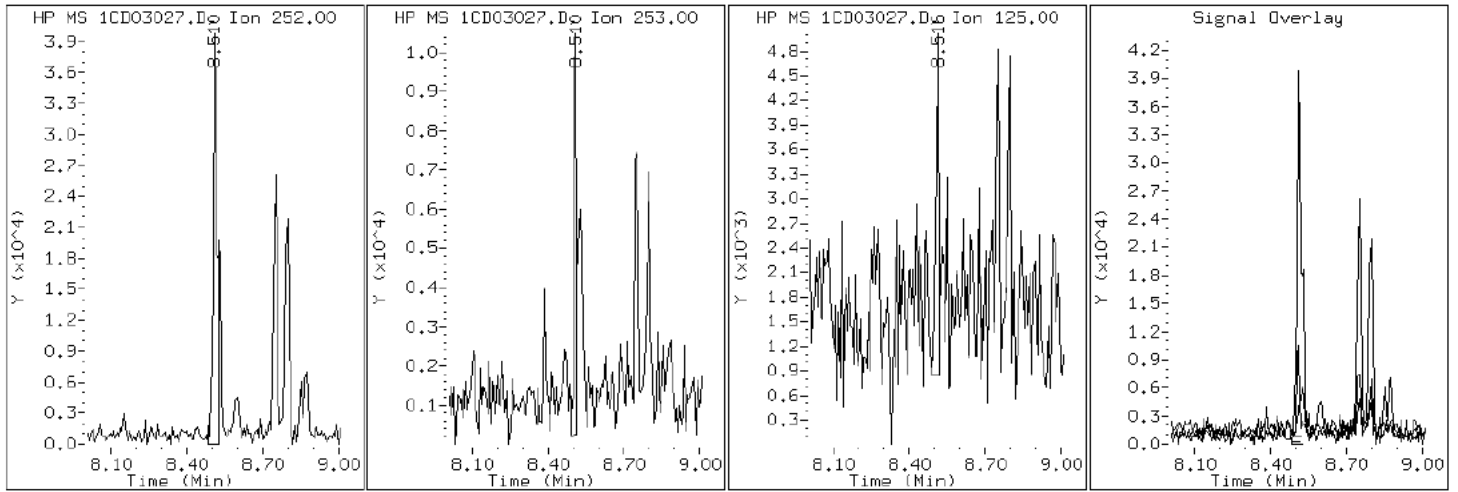
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

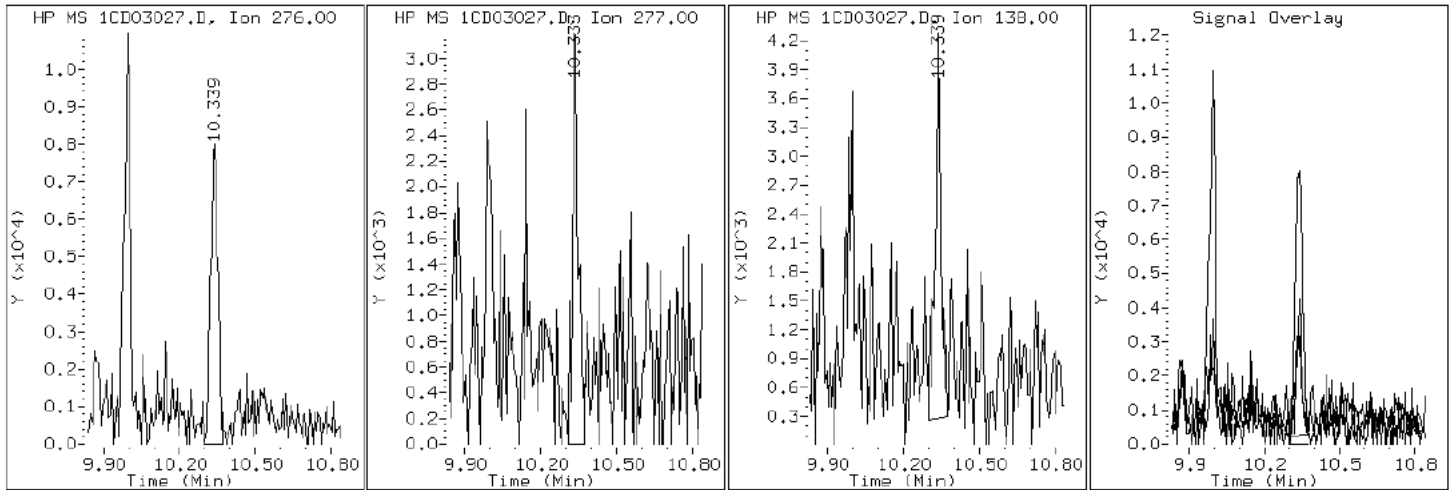
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

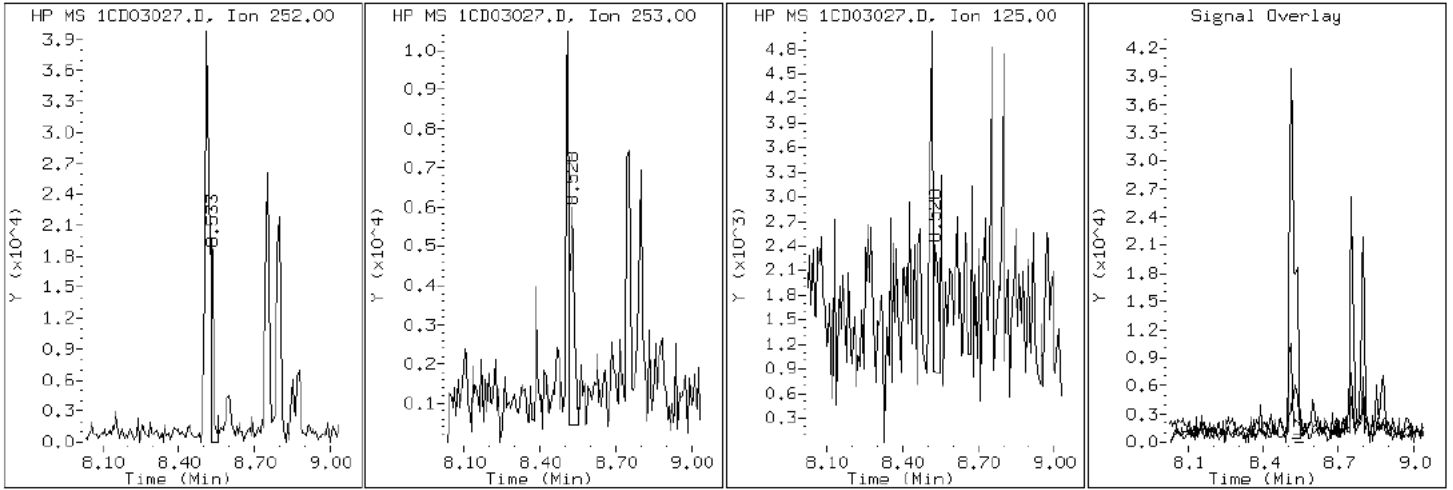
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

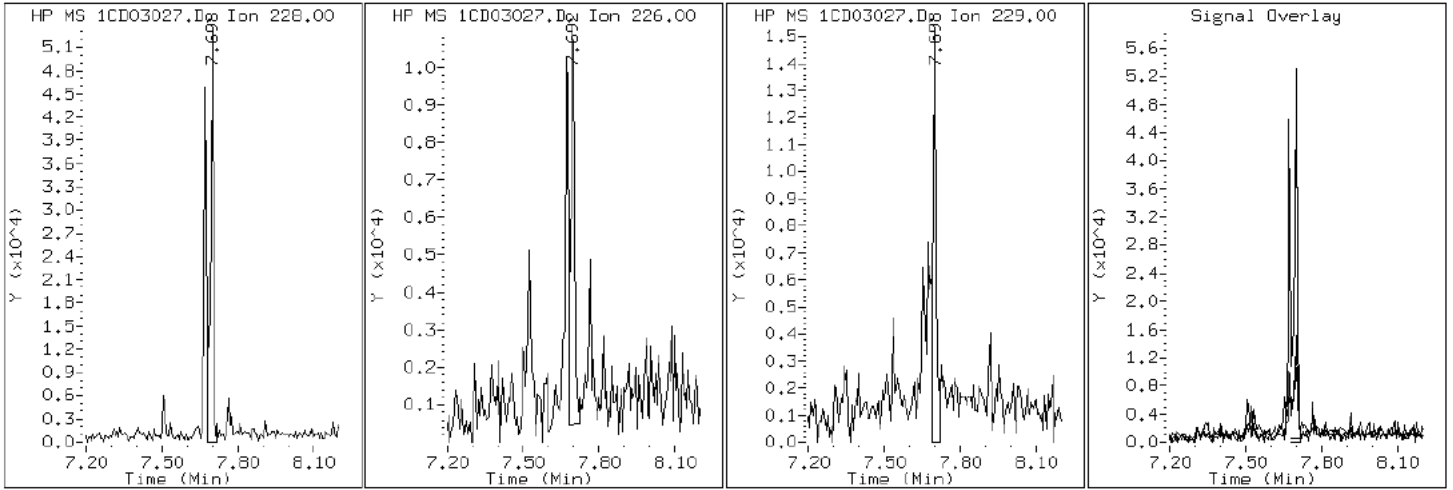
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

19 Chrysene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

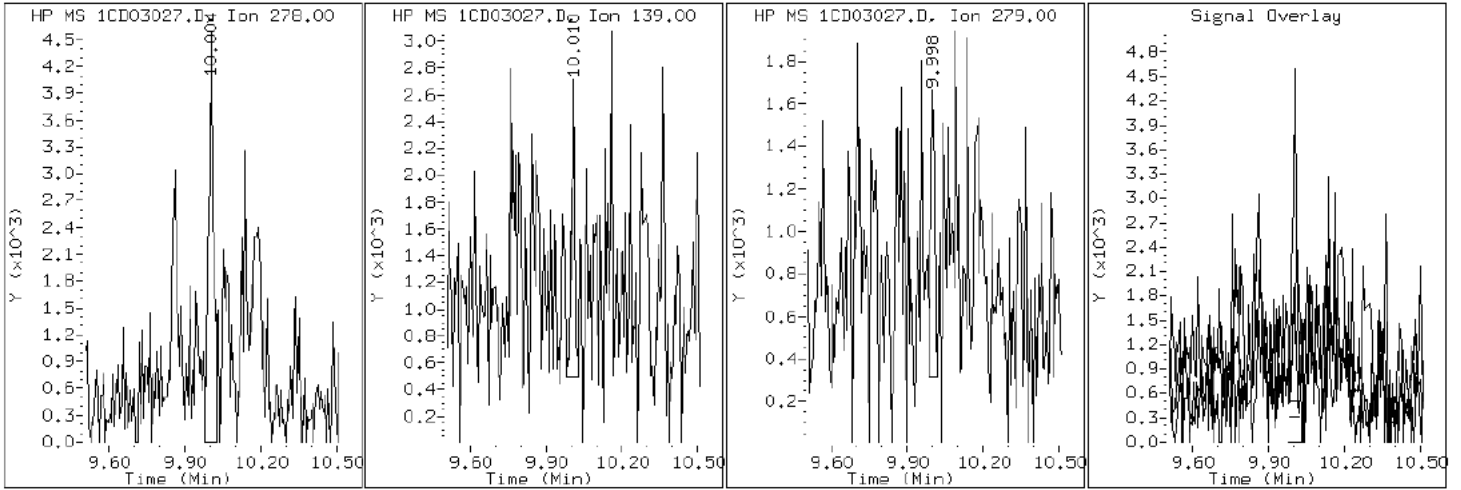
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

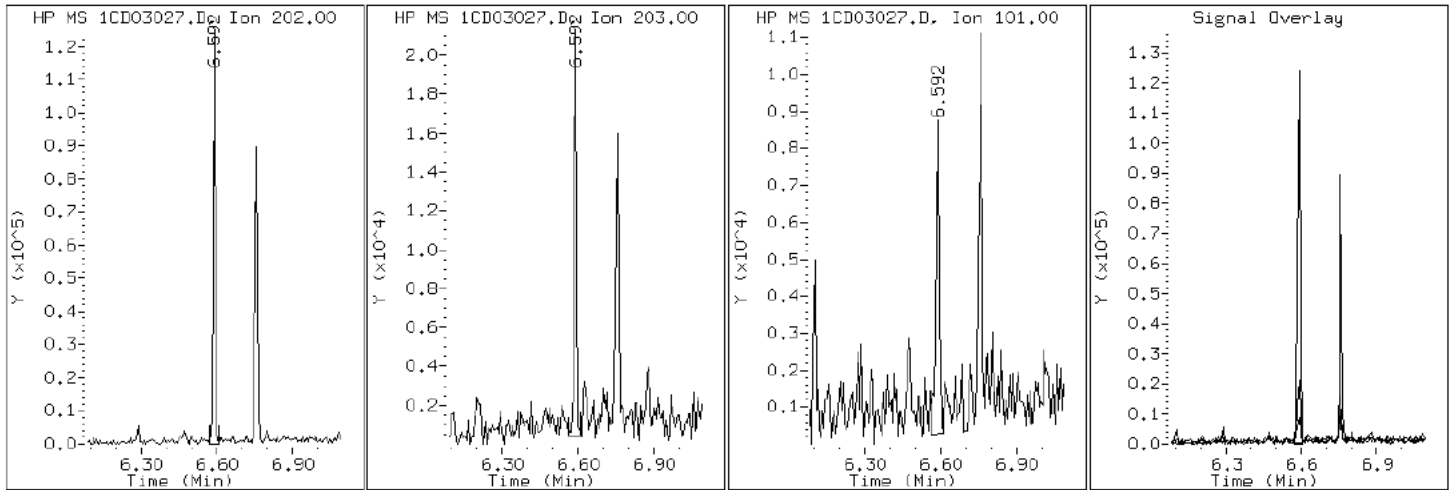
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

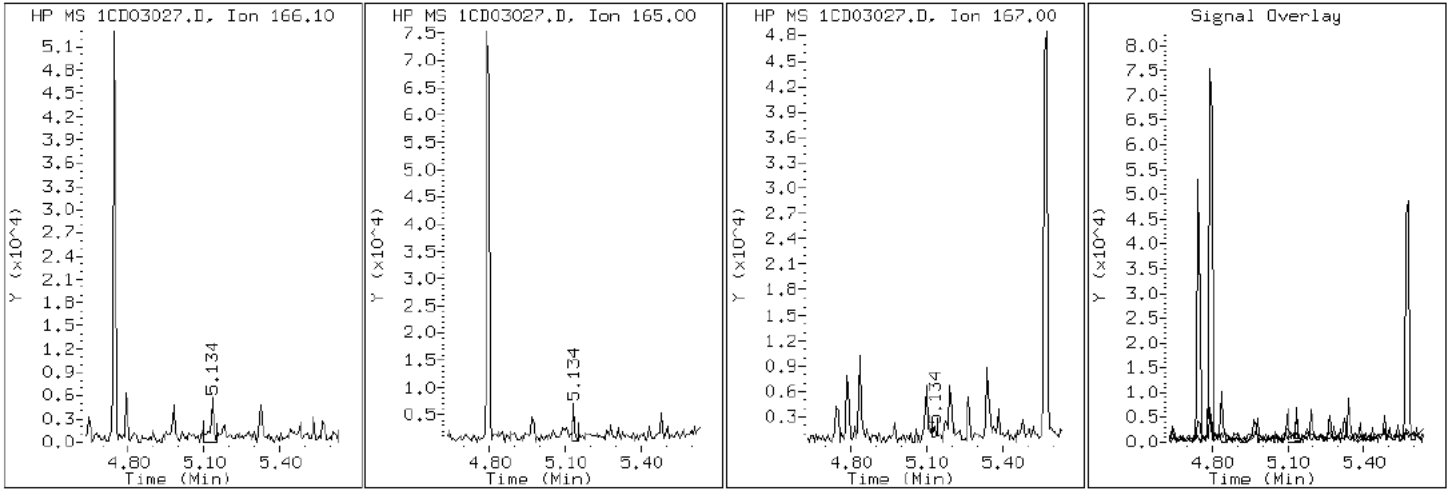
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

9 Fluorene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

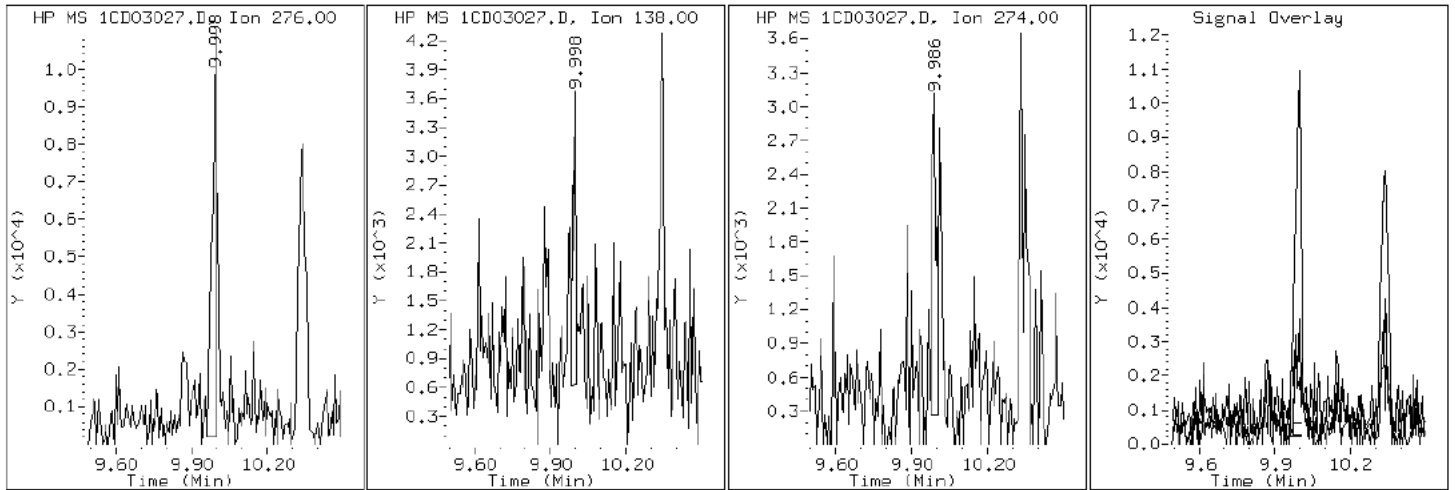
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

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





Data File: 1CD03027.D

Date: 03-APR-2013 19:13

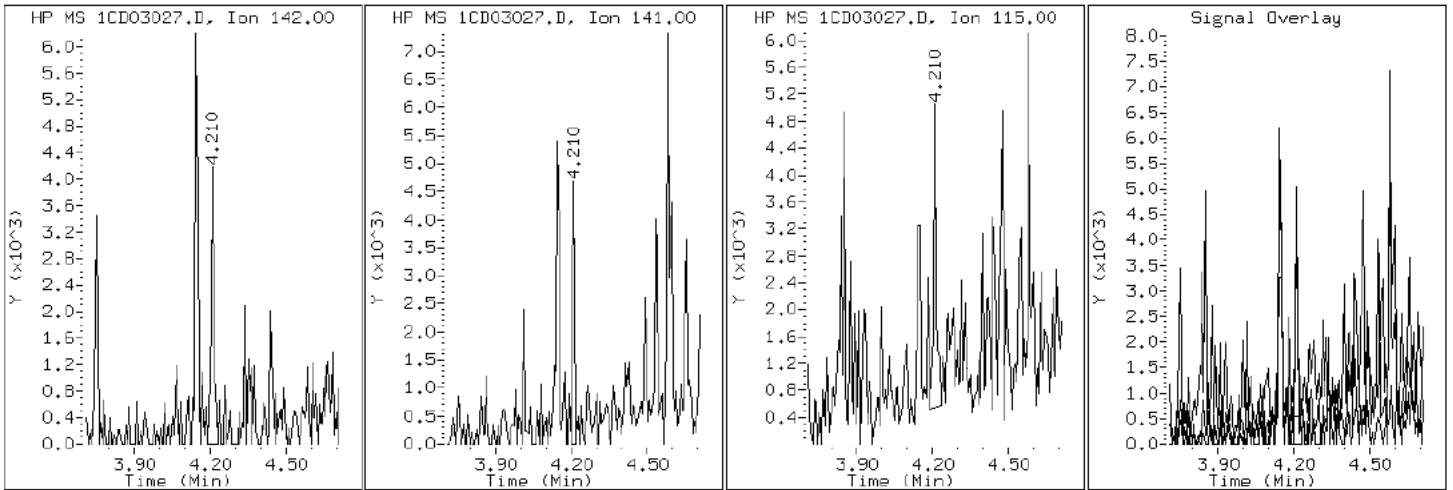
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

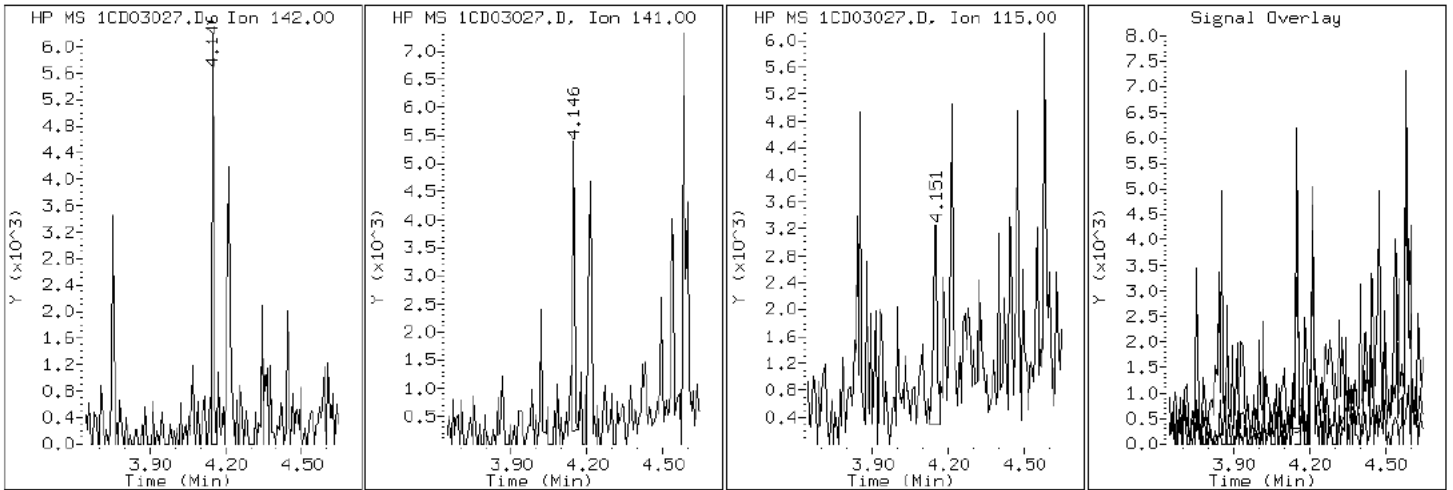
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

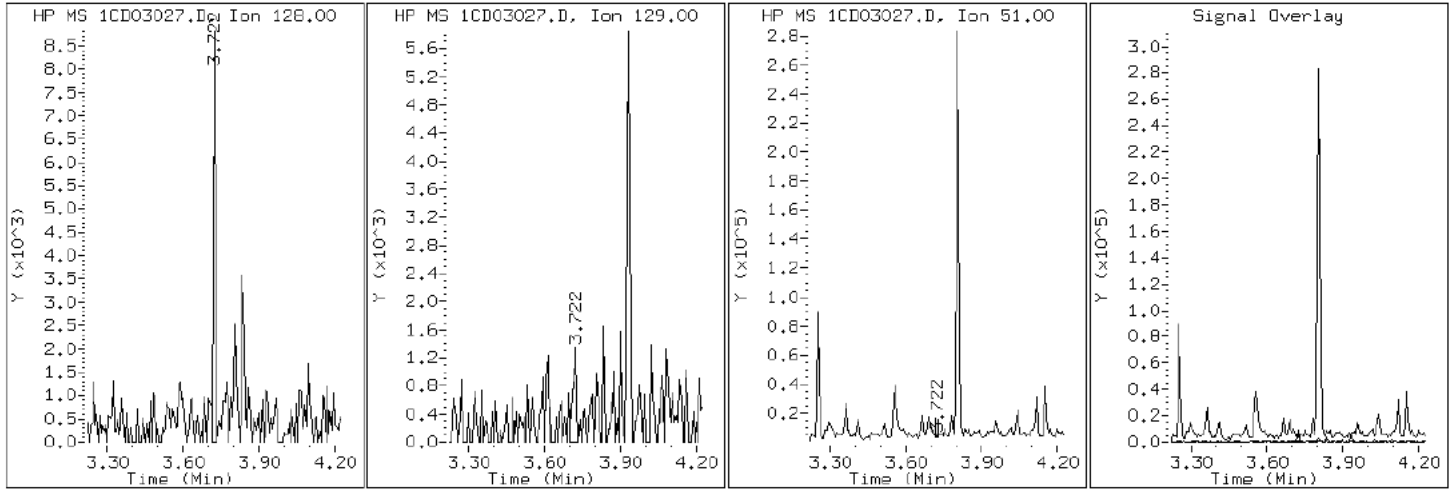
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

2 Naphthalene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

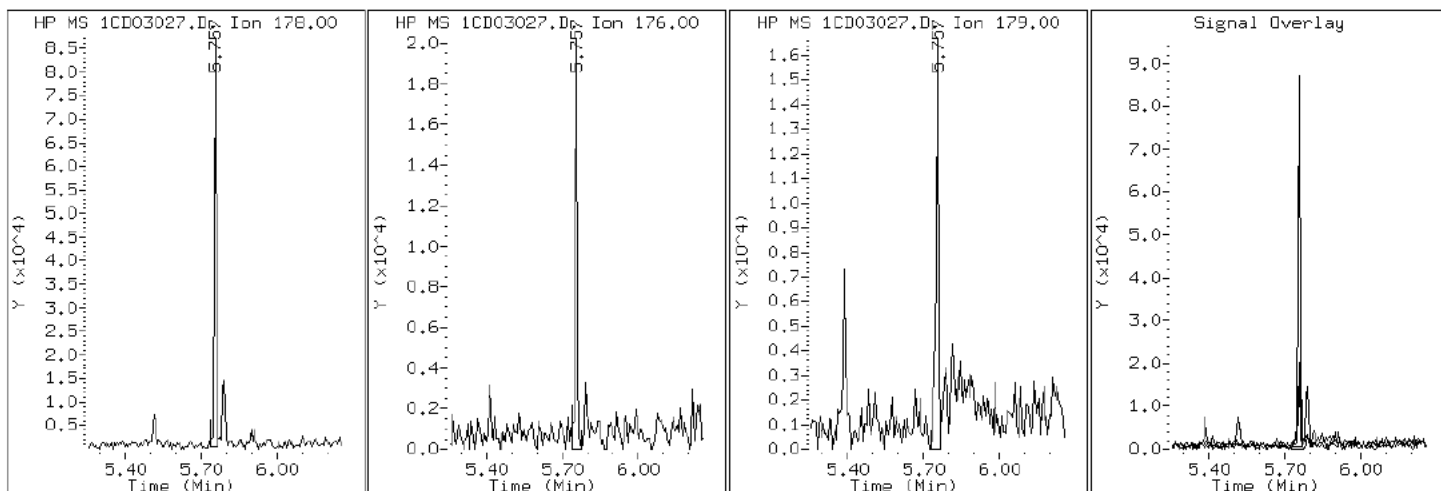
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03027.D

Date: 03-APR-2013 19:13

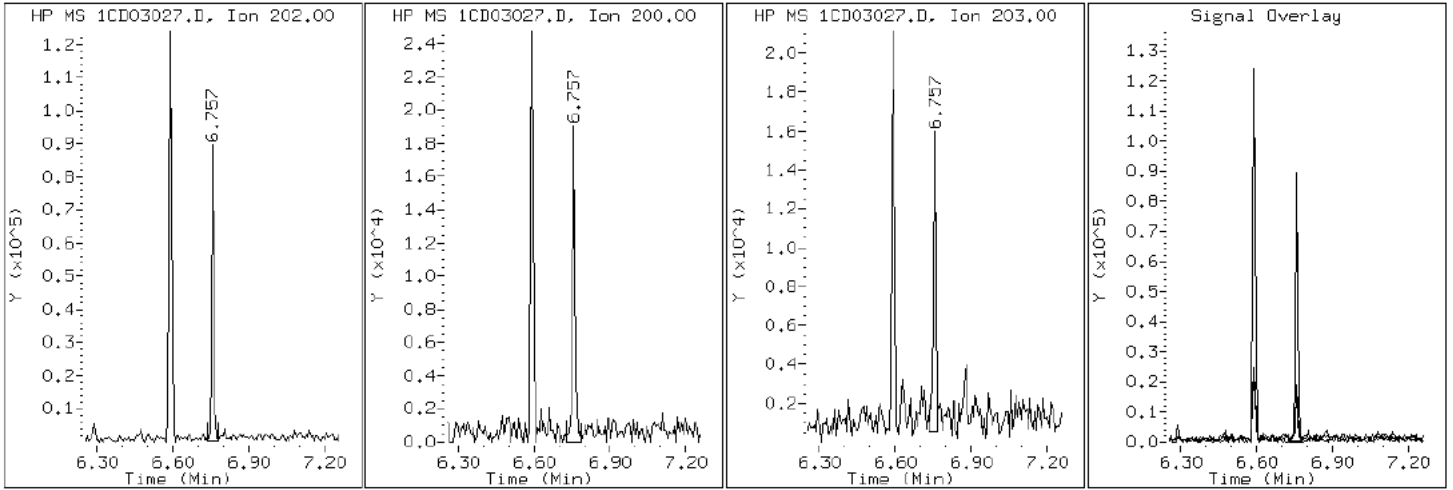
Client ID: CV0509AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-3-b

Operator: SCC

16 Pyrene

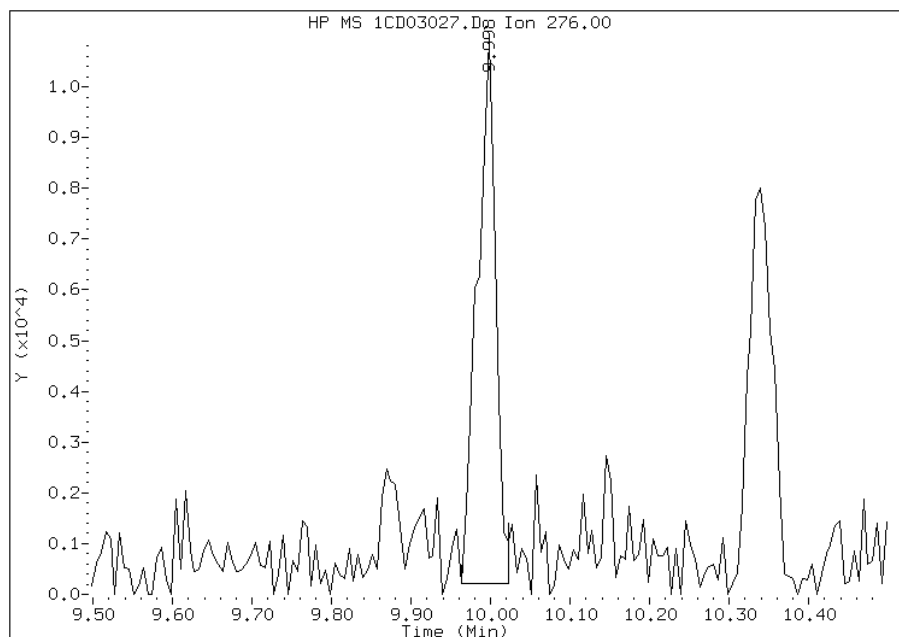


# Manual Integration Report

Data File: 1CD03027.D  
Inj. Date and Time: 03-APR-2013 19:13  
Instrument ID: BSMC5973.i  
Client ID: CV0509AB-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

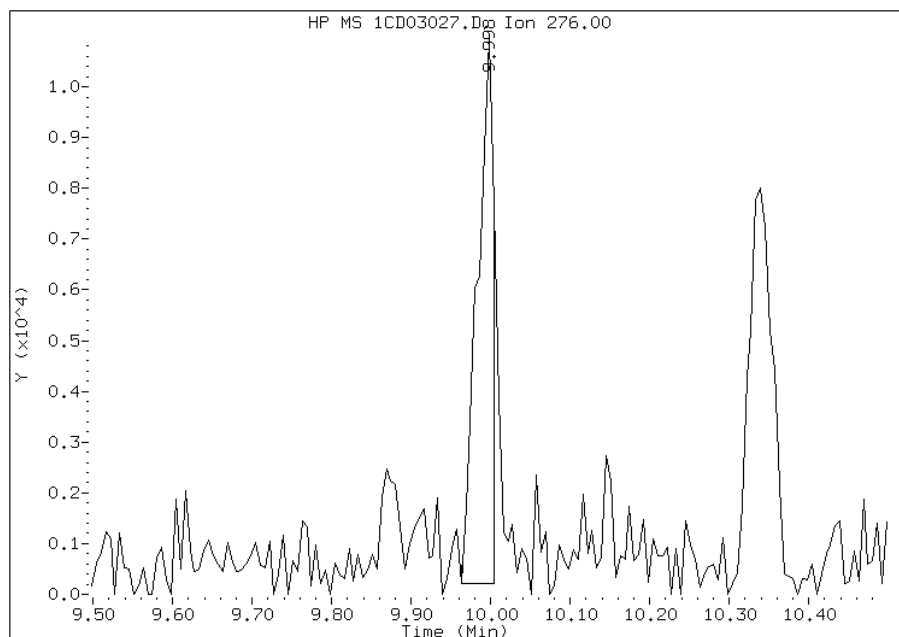
## Processing Integration Results

RT: 10.00  
Response: 17238  
Amount: 1  
Conc: 306



## Manual Integration Results

RT: 10.00  
Response: 15287  
Amount: 1  
Conc: 272



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:36  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509AC-GS Lab Sample ID: 680-88767-4  
 Matrix: Solid Lab File ID: 1CD03028.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:52  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.57(g) Date Analyzed: 04/03/2013 19:32  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	68	J	130	26
208-96-8	Acenaphthylene	40	J	53	6.6
120-12-7	Anthracene	170		11	5.6
56-55-3	Benzo[a]anthracene	710		11	5.2
50-32-8	Benzo[a]pyrene	600		14	6.9
205-99-2	Benzo[b]fluoranthene	1000		16	8.1
191-24-2	Benzo[g,h,i]perylene	430		26	5.8
207-08-9	Benzo[k]fluoranthene	350		11	4.8
218-01-9	Chrysene	660		12	6.0
53-70-3	Dibenz(a,h)anthracene	110		26	5.4
206-44-0	Fluoranthene	1400		26	5.3
86-73-7	Fluorene	74		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	360		26	9.4
90-12-0	1-Methylnaphthalene	120		53	5.8
91-57-6	2-Methylnaphthalene	150		53	9.4
91-20-3	Naphthalene	130		53	5.8
85-01-8	Phenanthrene	880		11	5.2
129-00-0	Pyrene	1100		26	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03028.D  
 Lab Smp Id: 680-88767-A-4-B Client Smp ID: CV0509AC-GS  
 Inj Date : 03-APR-2013 19:32  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-4-b  
 Misc Info : 680-88767-A-4-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins 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	14.570	Weight Extracted
M	22.179	% 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		3.710	3.704	(1.000)	624862	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	427948	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	792300	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	80282	6.93328	611.4797
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	896421	40.0000	
* 23 Perylene-d12	264		8.856	8.851	(1.000)	817886	40.0000	
2 Naphthalene	128		3.721	3.722	(1.003)	22919	1.42802	125.9444
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	18913	1.73115	152.6785
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	13591	1.38254	121.9327
5 Acenaphthylene	152		4.710	4.704	(0.983)	8023	0.45298	39.9502
7 Acenaphthene	154		4.815	4.816	(1.005)	8473	0.77237	68.1194
9 Fluorene	166		5.133	5.133	(1.071)	12199	0.83417	73.5691
11 Phenanthrene	178		5.757	5.757	(1.003)	230751	9.99985	881.9355
12 Anthracene	178		5.792	5.792	(1.009)	44781	1.91439	168.8397



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	28739	1.43403	126.4739
15 Fluoranthene	202	6.592	6.592	(1.149)	391932	15.3796	1356.3998
16 Pyrene	202	6.757	6.757	(0.880)	306975	12.3623	1090.2917
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	204162	7.99596	705.2027
19 Chrysene	228	7.698	7.698	(1.002)	191078	7.48032	659.7265
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	261357	11.3032	996.8874(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	88272	3.94715	348.1188(QM)
22 Benzo(a)pyrene	252	8.798	8.798	(0.993)	148591	6.82576	601.9977
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.129)	83605	4.04347	356.6134(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009	(1.131)	24150	1.26438	111.5119
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.168)	103240	4.89222	431.4690

QC Flag Legend

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

Data File: 1CD03028.D

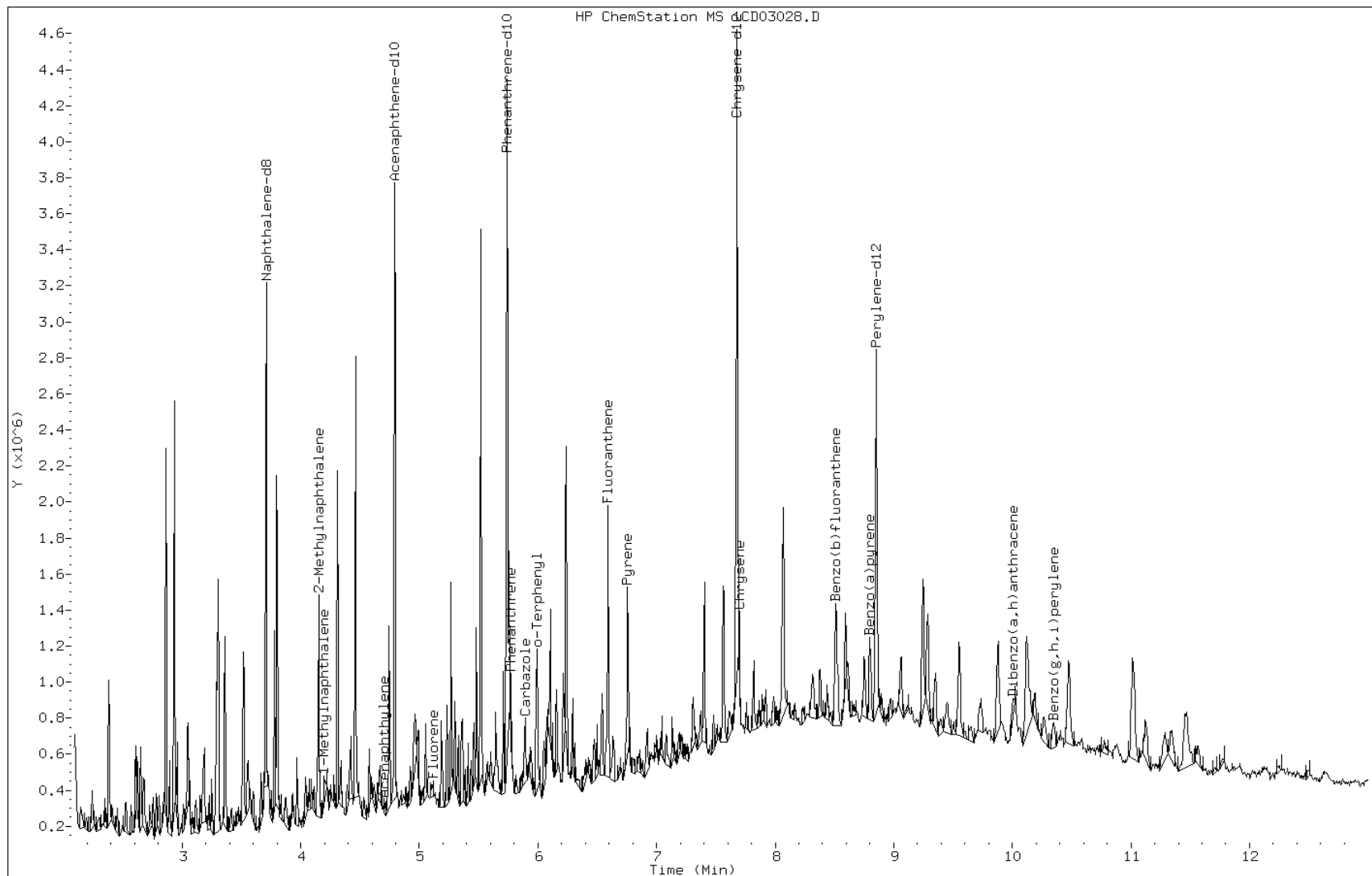
Date: 03-APR-2013 19:32

Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

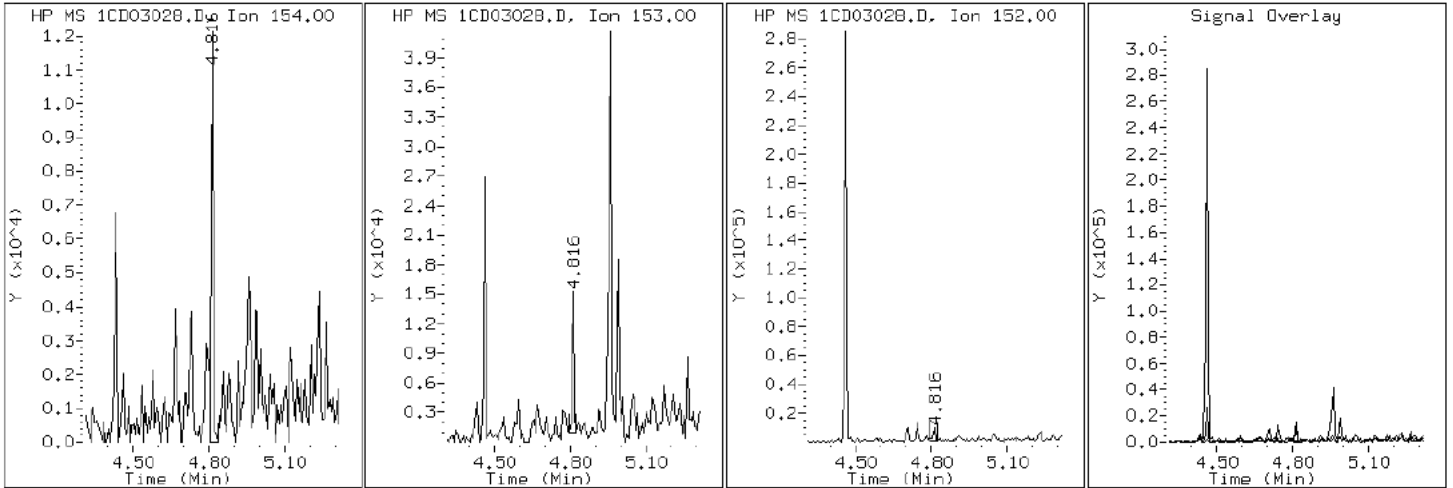
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

7 Acenaphthene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

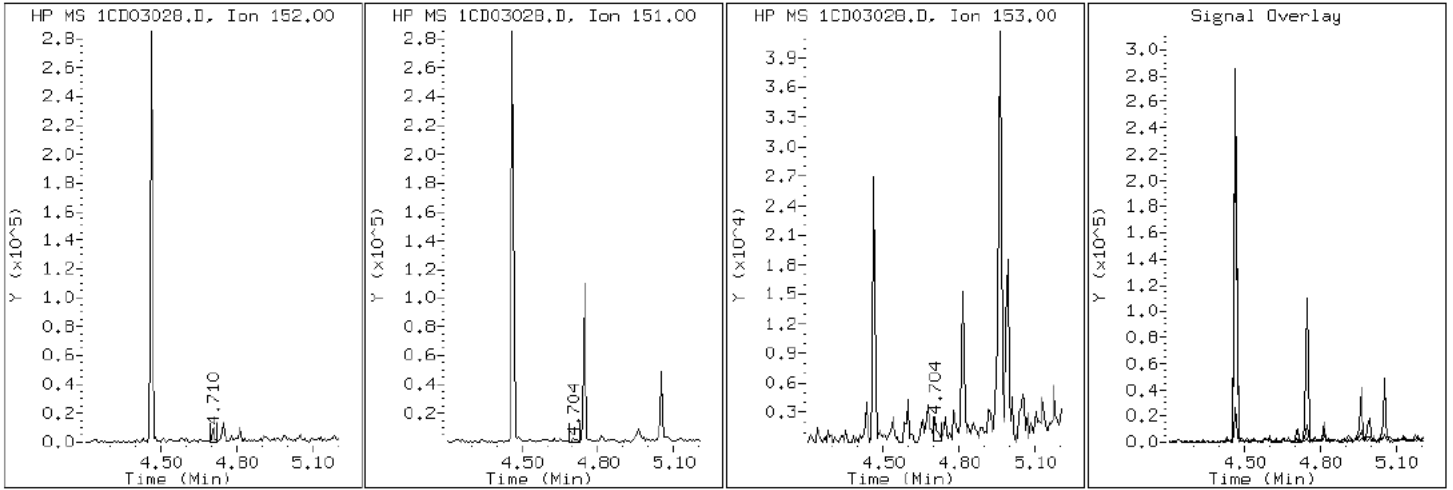
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

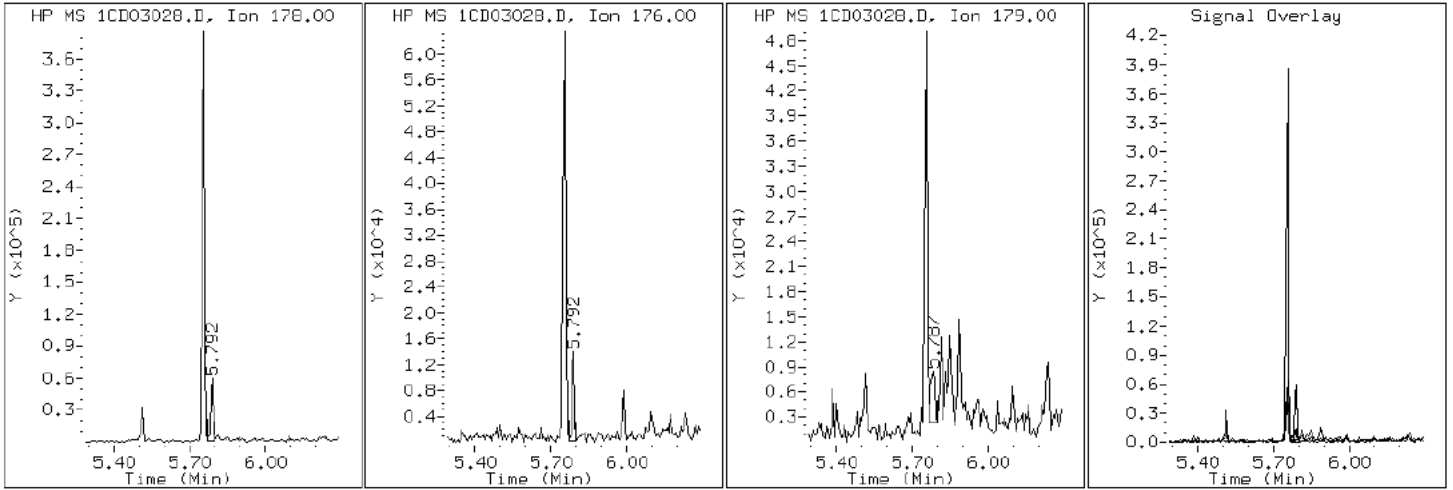
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

12 Anthracene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

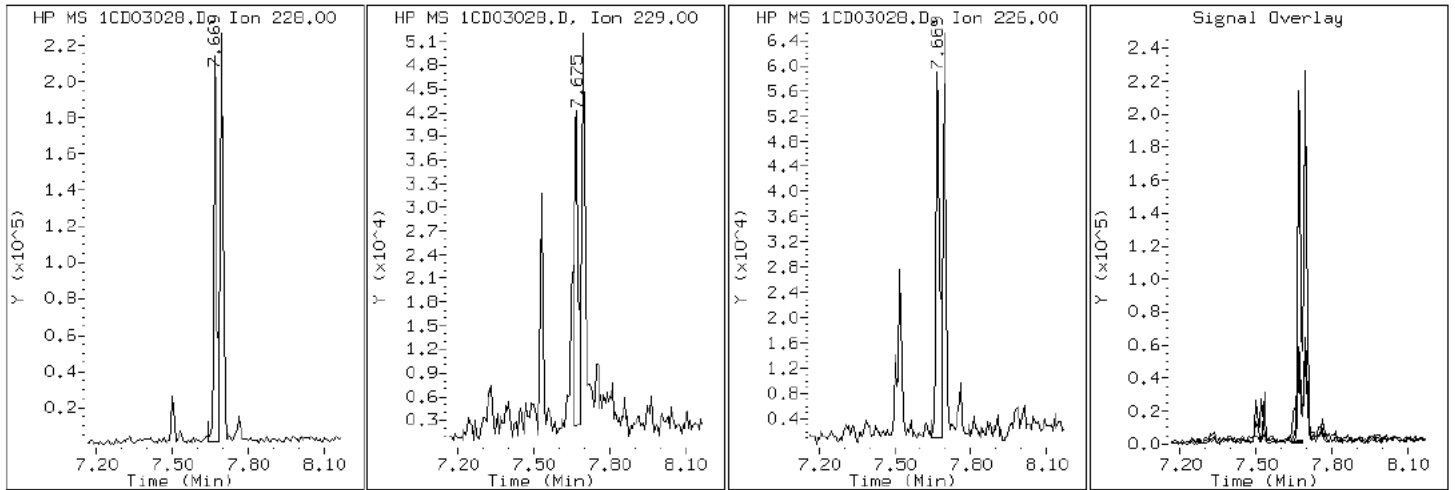
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

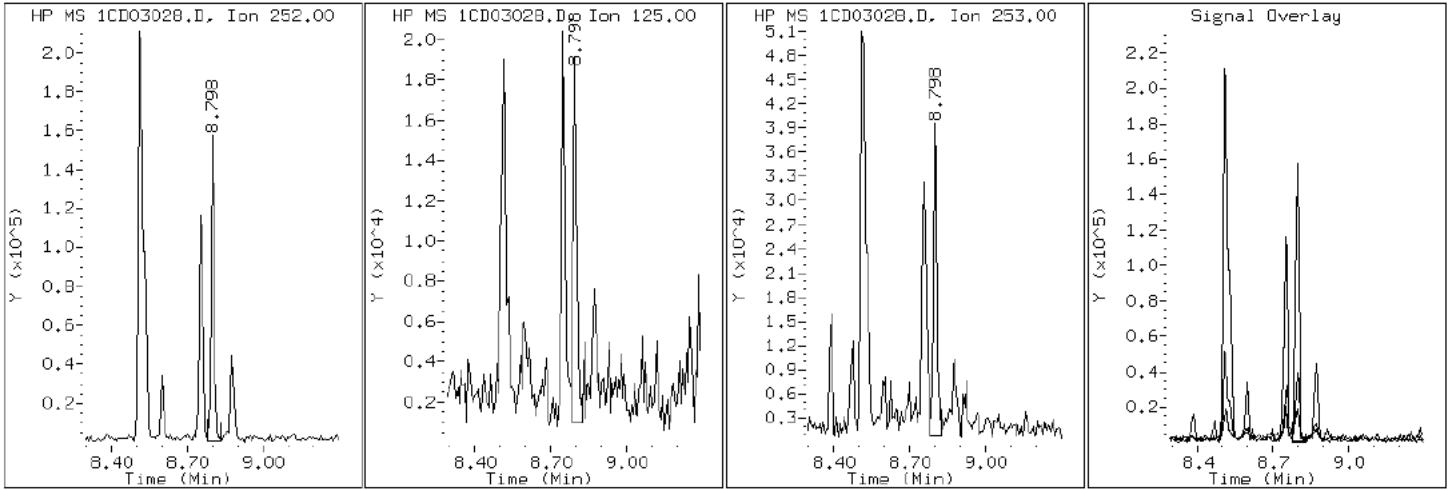
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

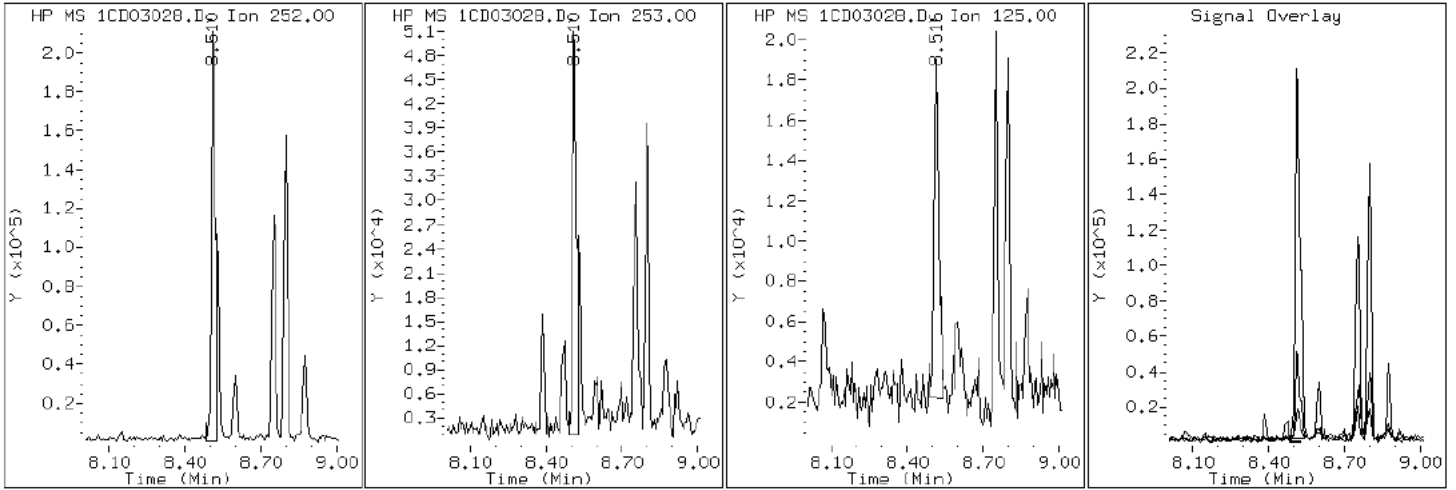
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD03028.D

Date: 03-APR-2013 19:32

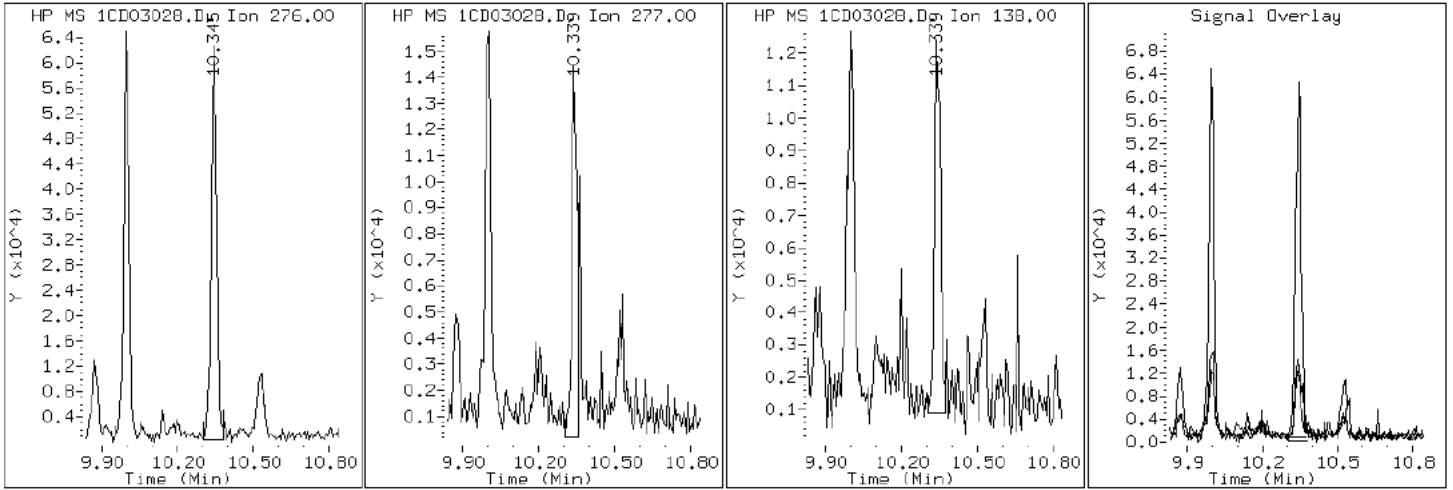
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

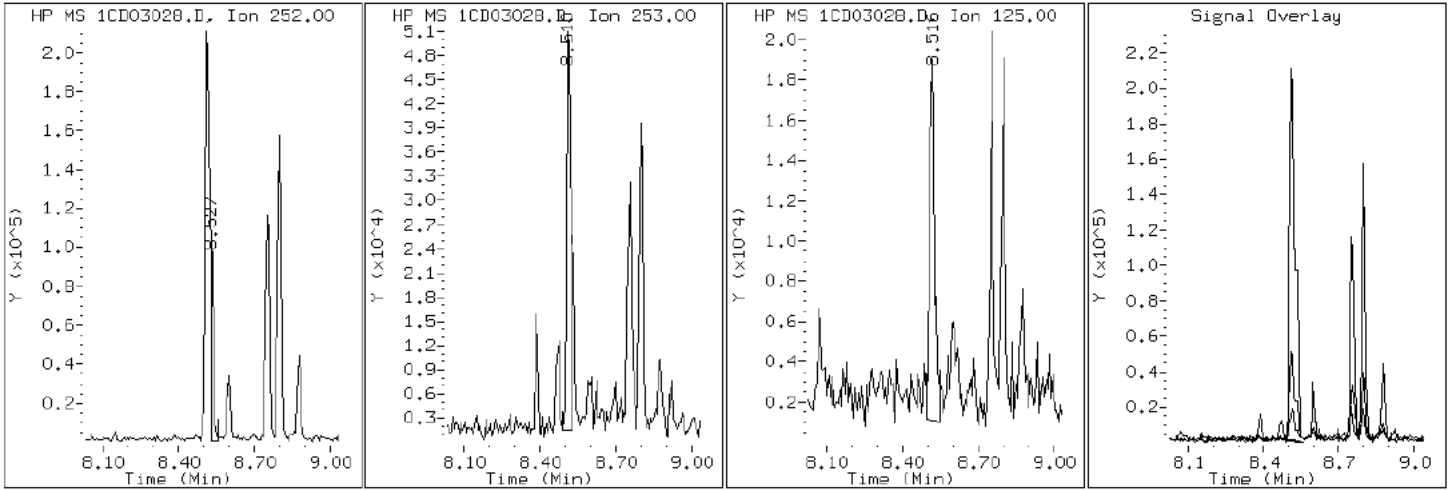
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

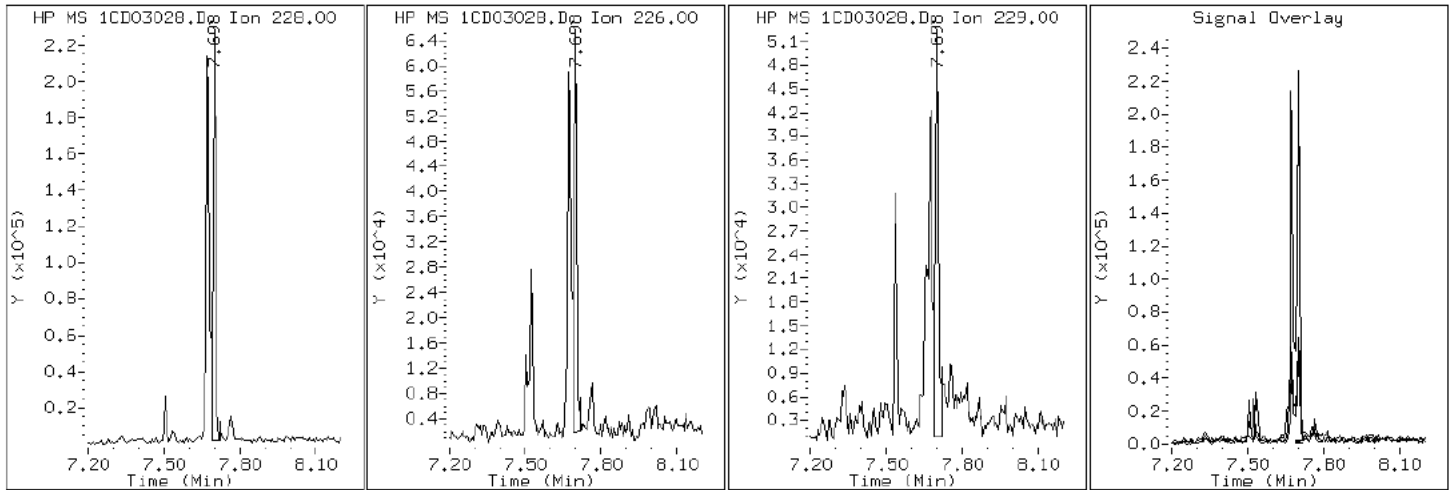
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

19 Chrysene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

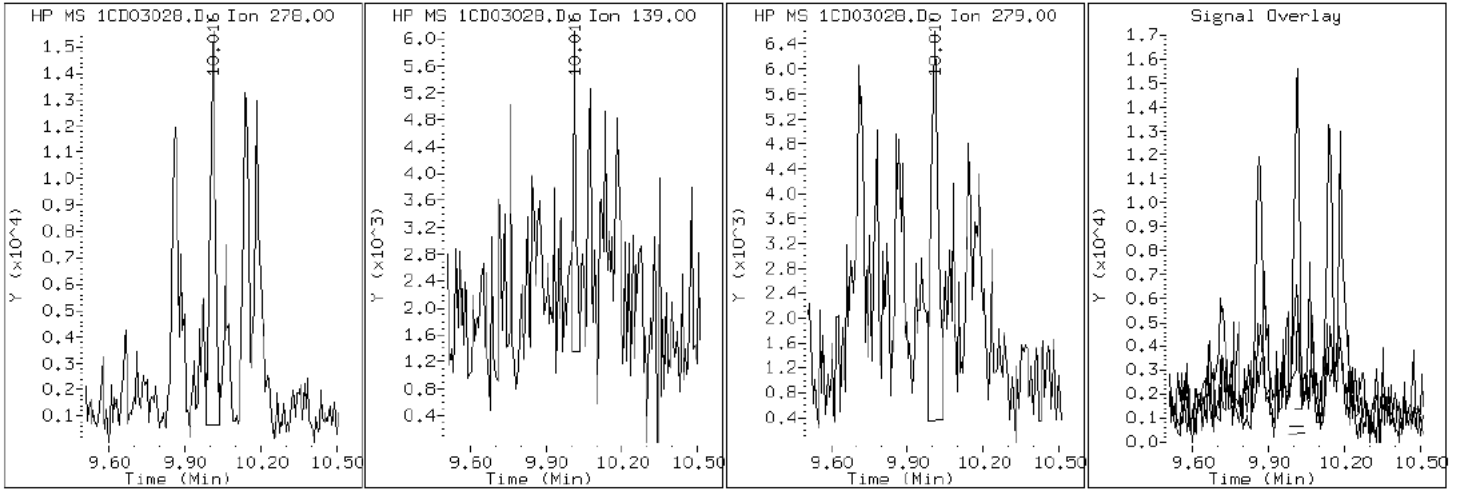
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

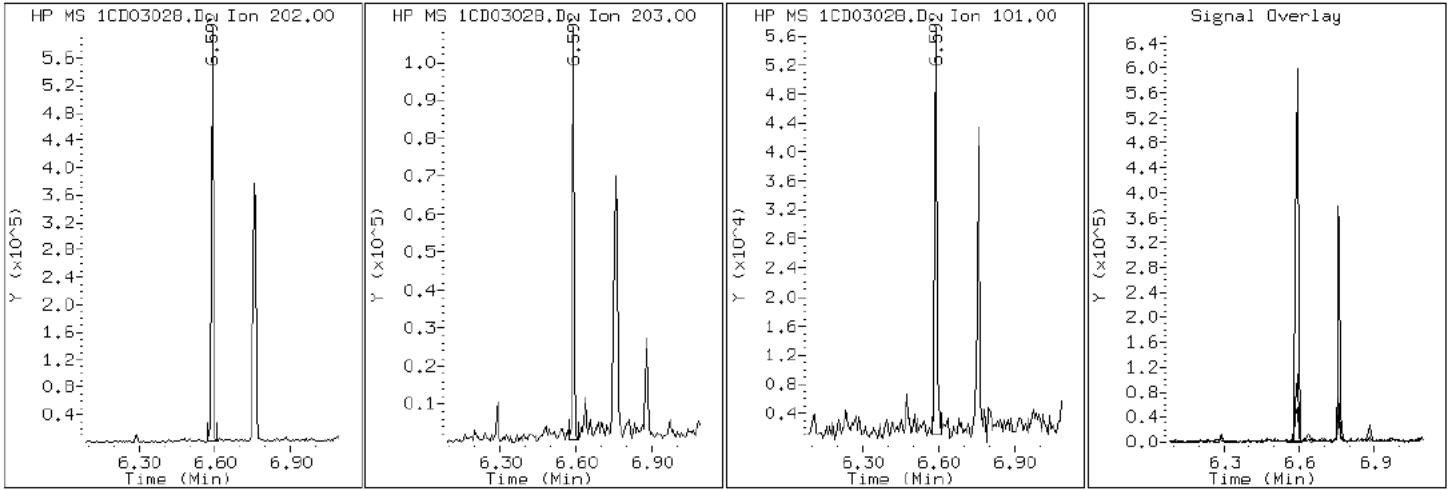
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

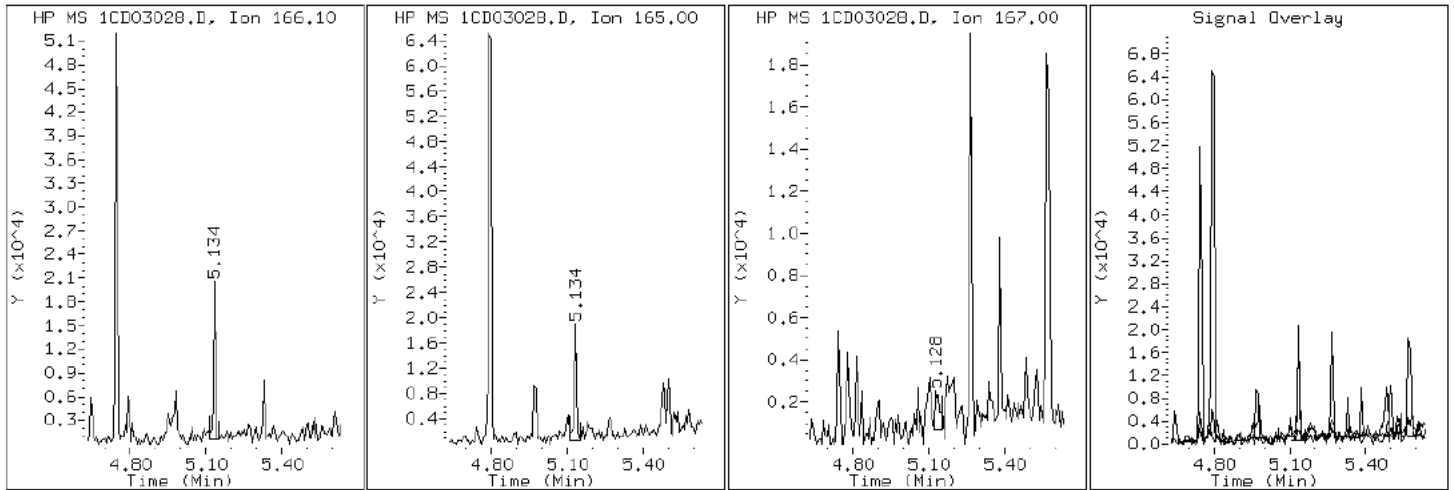
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

9 Fluorene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

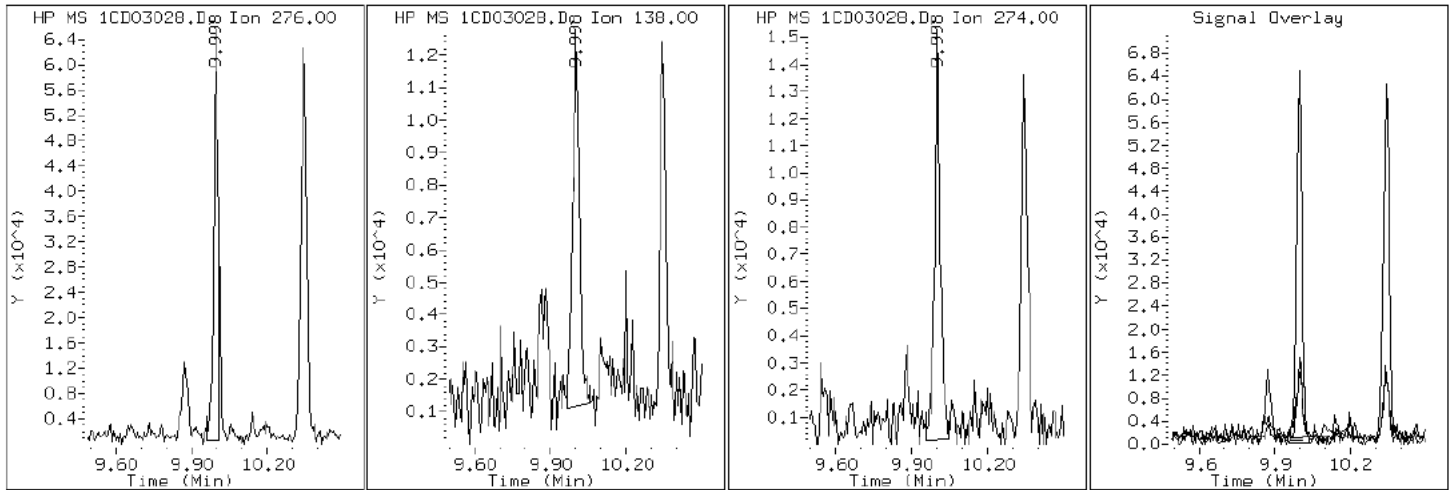
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

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



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

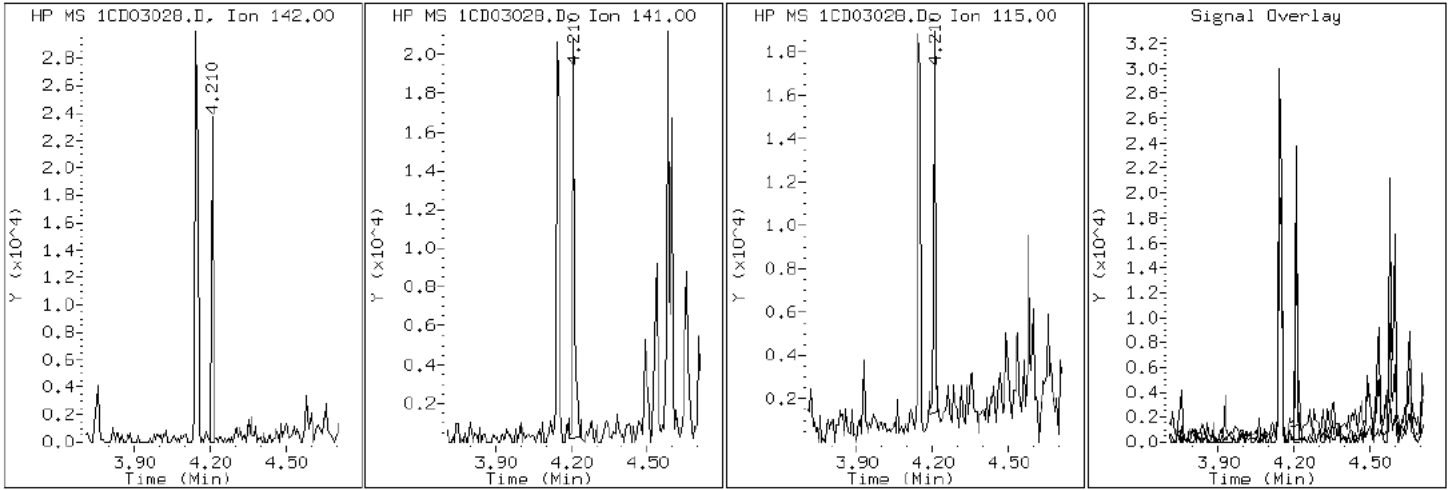
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD03028.D

Date: 03-APR-2013 19:32

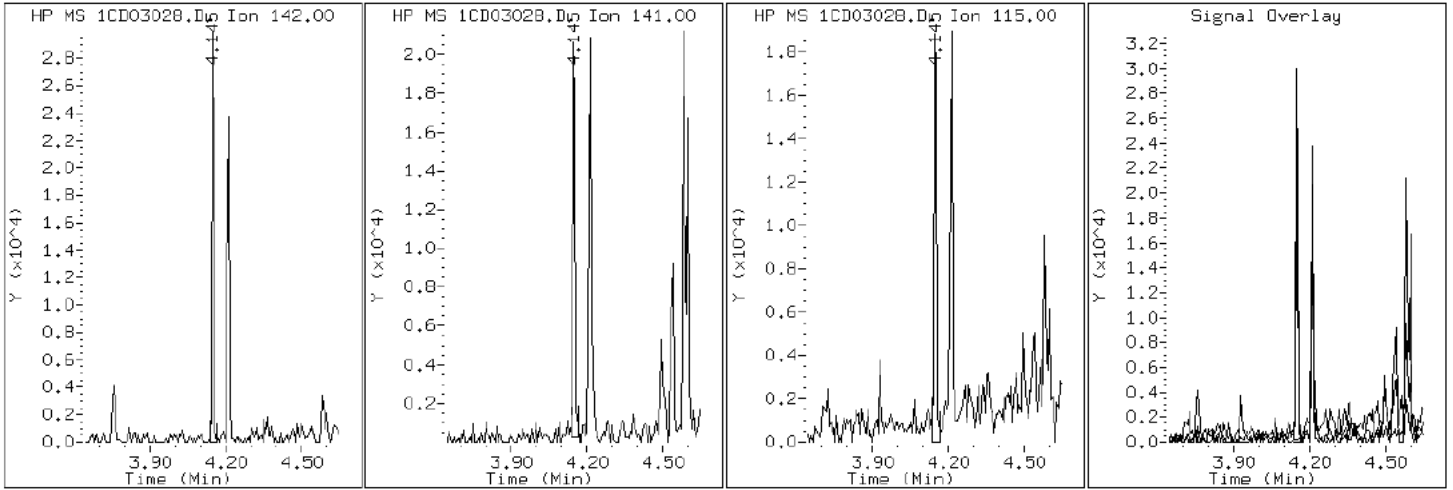
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

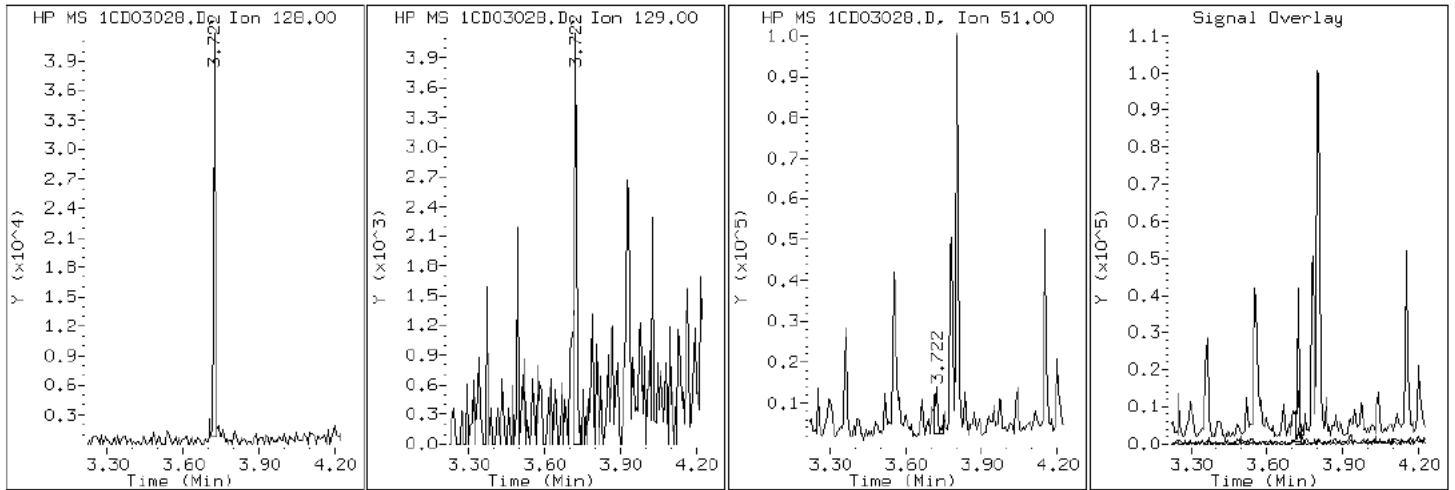
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

2 Naphthalene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

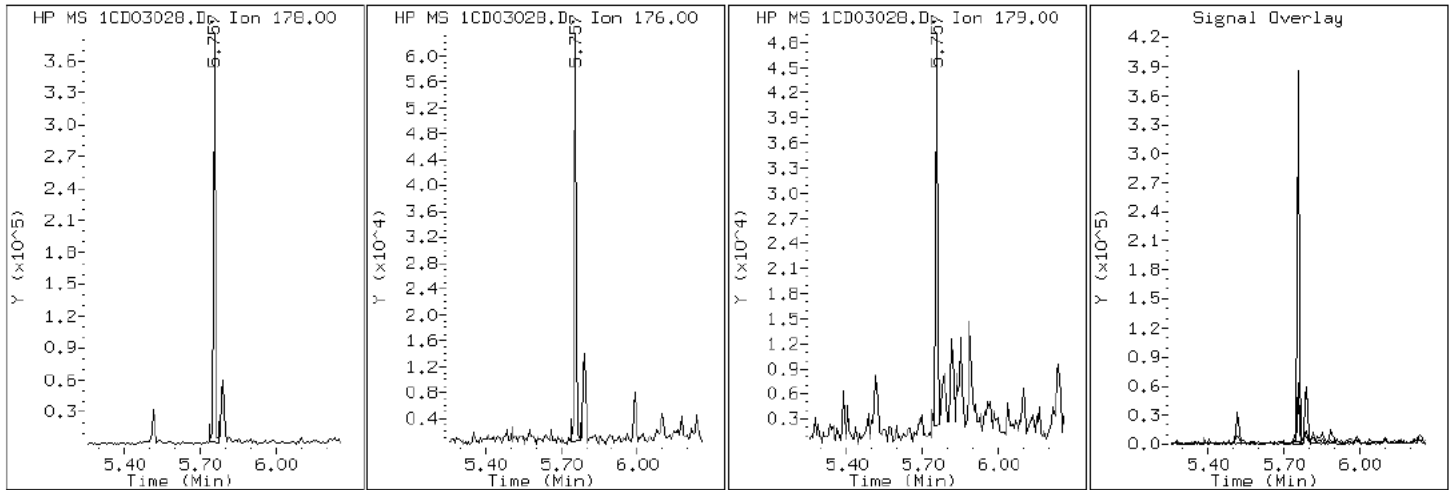
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03028.D

Date: 03-APR-2013 19:32

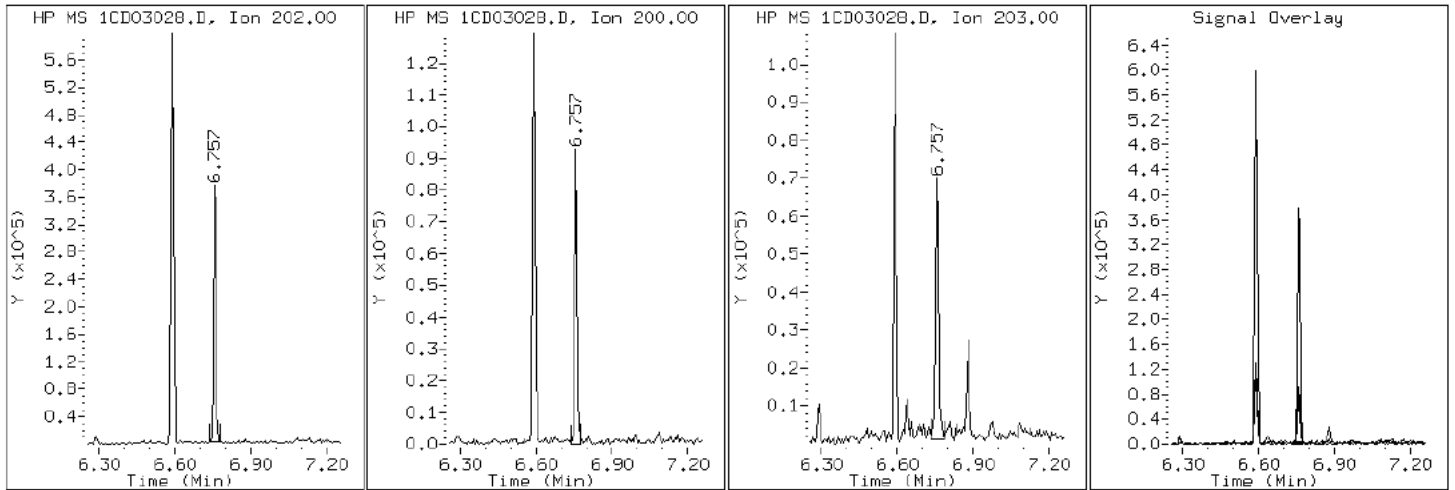
Client ID: CV0509AC-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-4-b

Operator: SCC

16 Pyrene

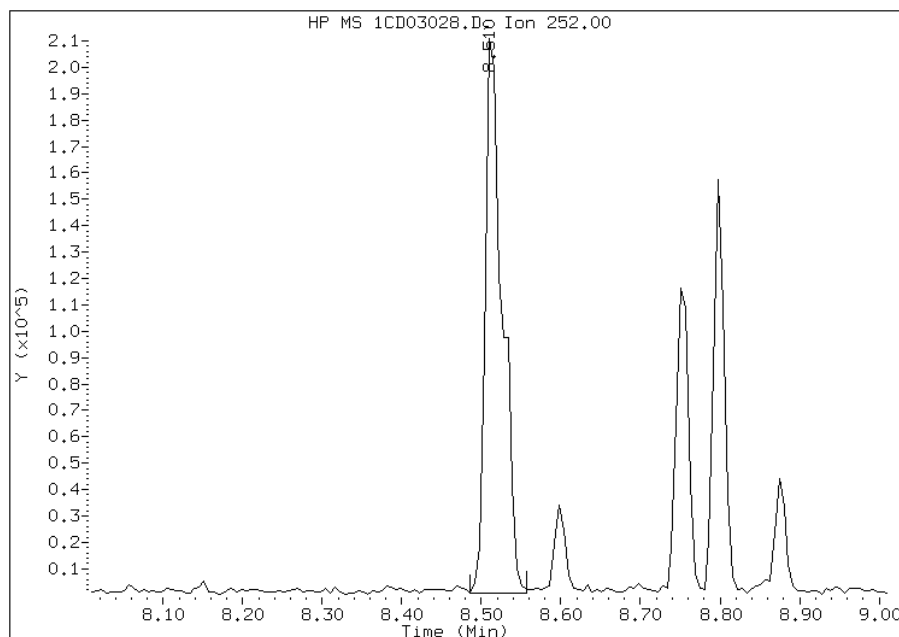


# Manual Integration Report

Data File: 1CD03028.D  
Inj. Date and Time: 03-APR-2013 19:32  
Instrument ID: BSMC5973.i  
Client ID: CV0509AC-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

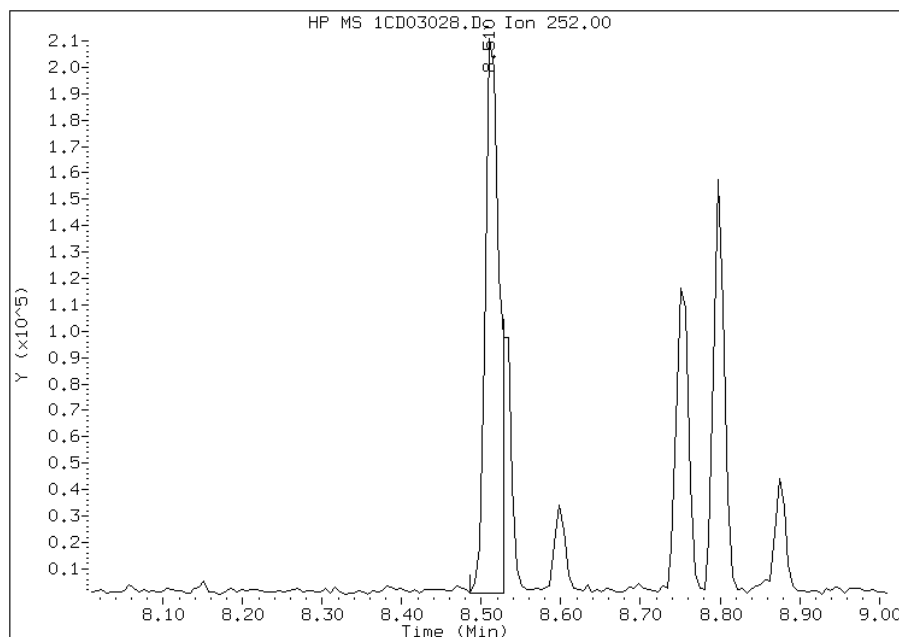
## Processing Integration Results

RT: 8.51  
Response: 314873  
Amount: 14  
Conc: 1201



## Manual Integration Results

RT: 8.51  
Response: 261357  
Amount: 11  
Conc: 997



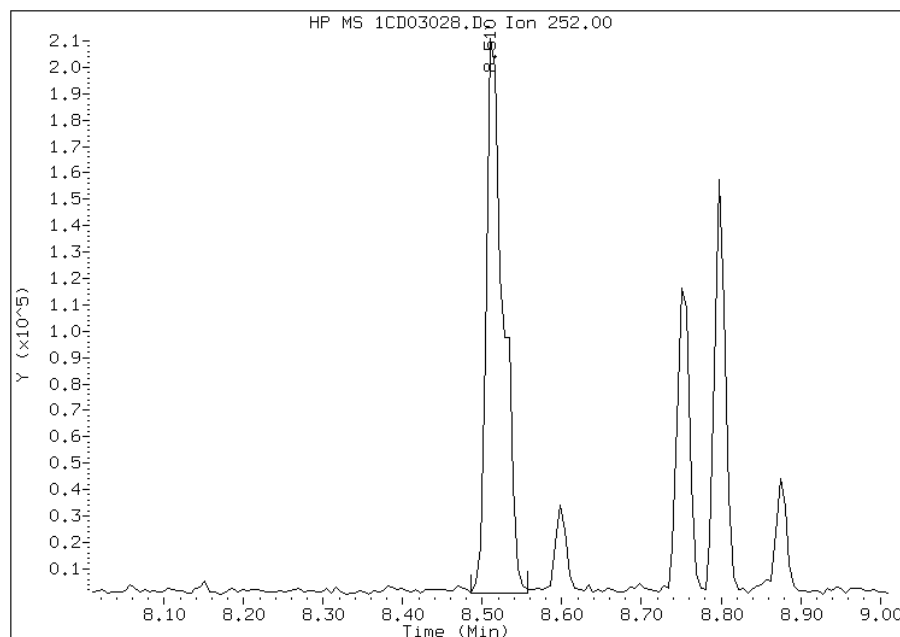
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:36  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03028.D  
Inj. Date and Time: 03-APR-2013 19:32  
Instrument ID: BSMC5973.i  
Client ID: CV0509AC-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

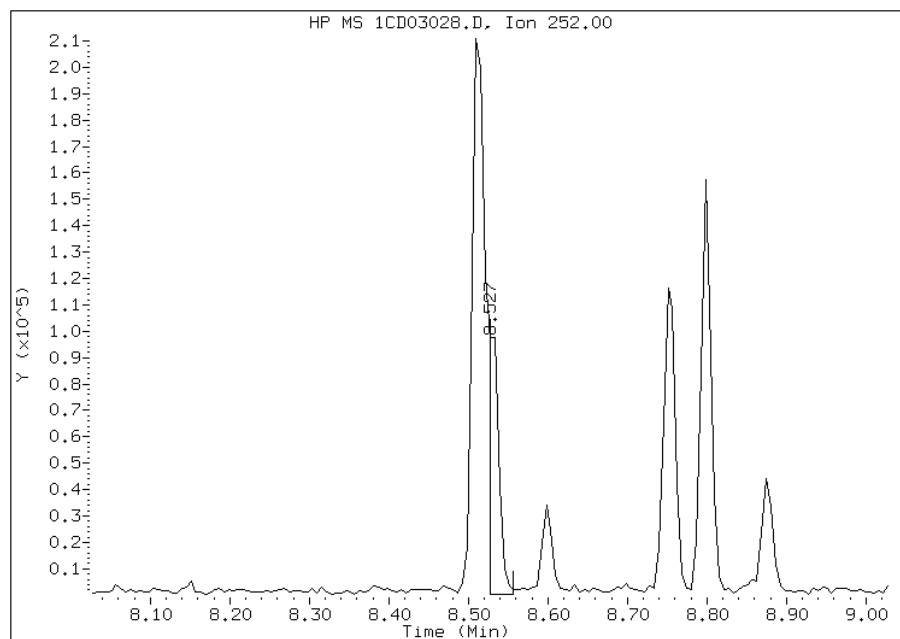
## Processing Integration Results

RT: 8.51  
Response: 314873  
Amount: 14  
Conc: 1242



## Manual Integration Results

RT: 8.53  
Response: 88272  
Amount: 4  
Conc: 348



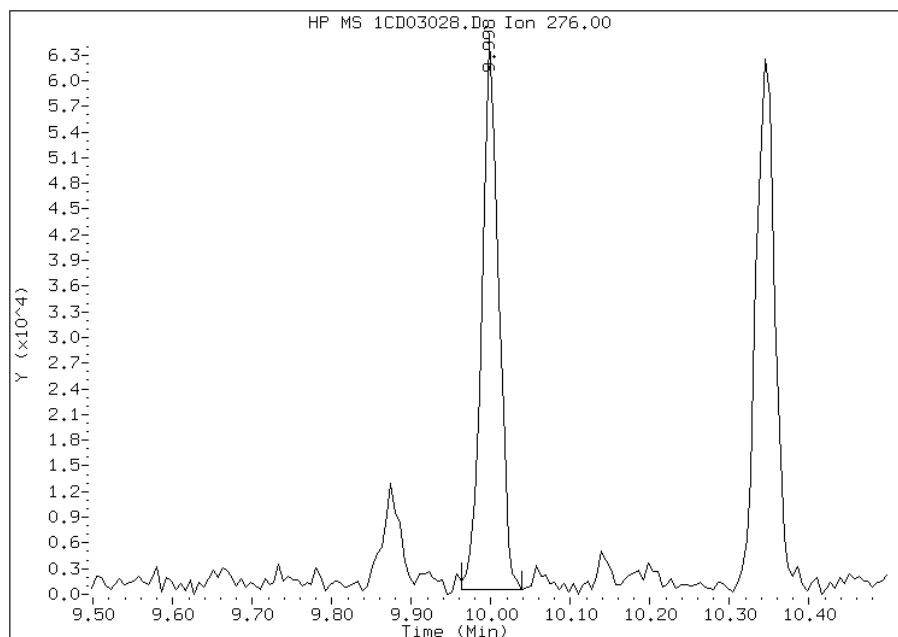
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:37  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03028.D  
Inj. Date and Time: 03-APR-2013 19:32  
Instrument ID: BSMC5973.i  
Client ID: CV0509AC-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

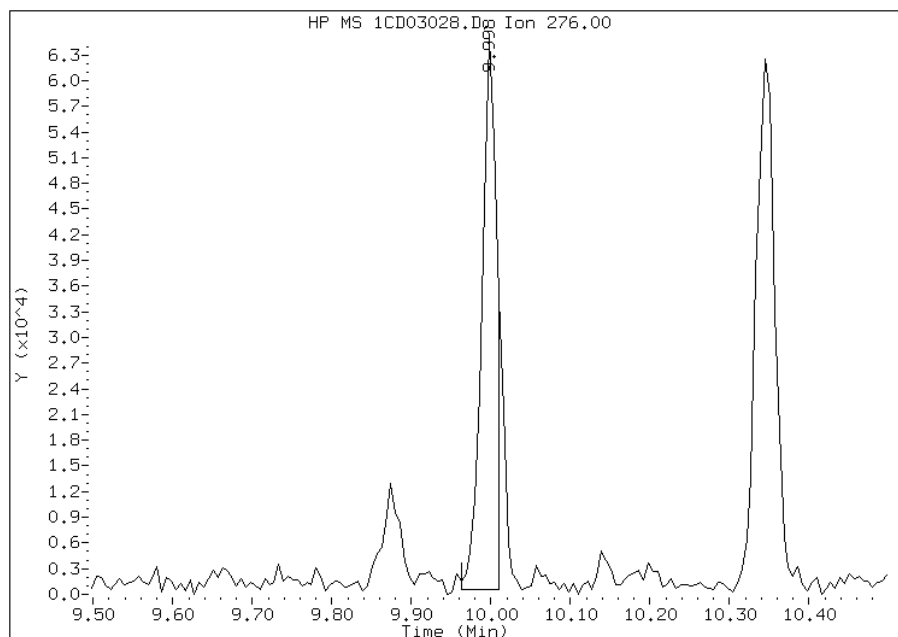
## Processing Integration Results

RT: 10.00  
Response: 94003  
Amount: 5  
Conc: 401



## Manual Integration Results

RT: 10.00  
Response: 83605  
Amount: 4  
Conc: 357



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:37  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509AD-GS Lab Sample ID: 680-88767-5  
 Matrix: Solid Lab File ID: 1CD03029.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:54  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.89(g) Date Analyzed: 04/03/2013 19:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	6.2	J	49	6.1
120-12-7	Anthracene	25		10	5.1
56-55-3	Benzo[a]anthracene	130		9.7	4.7
50-32-8	Benzo[a]pyrene	86		13	6.3
205-99-2	Benzo[b]fluoranthene	180		15	7.4
191-24-2	Benzo[g,h,i]perylene	100		24	5.4
207-08-9	Benzo[k]fluoranthene	41		9.7	4.4
218-01-9	Chrysene	180		11	5.5
53-70-3	Dibenz(a,h)anthracene	30		24	5.0
206-44-0	Fluoranthene	180		24	4.9
86-73-7	Fluorene	44		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	76		24	8.6
90-12-0	1-Methylnaphthalene	170		49	5.4
91-57-6	2-Methylnaphthalene	250		49	8.6
91-20-3	Naphthalene	66		49	5.4
85-01-8	Phenanthrene	260		9.7	4.7
129-00-0	Pyrene	170		24	4.5

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\1C040313.b\1CD03029.D  
 Lab Smp Id: 680-88767-A-5-B Client Smp ID: CV0509AD-GS  
 Inj Date : 03-APR-2013 19:50  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-5-b  
 Misc Info : 680-88767-A-5-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\A-BFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins 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	14.890	Weight Extracted
M	17.234	% 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		3.710	3.704	(1.000)	601947	40.0000		
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	441630	40.0000		
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	796855	40.0000		
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	87099	7.42191	602.2359	
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	855779	40.0000		
* 23 Perylene-d12	264		8.851	8.851	(1.000)	831443	40.0000		
2 Naphthalene	128		3.721	3.722	(1.003)	12657	0.81865	66.4274	
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	32660	3.10324	251.8065	
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	20070	2.11933	171.9688	
5 Acenaphthylene	152		4.710	4.704	(0.983)	1398	0.07649	6.2062(Q)	
9 Fluorene	166		5.133	5.133	(1.071)	8274	0.54825	44.4863	
11 Phenanthrene	178		5.757	5.757	(1.003)	75014	3.23223	262.2728	
12 Anthracene	178		5.792	5.792	(1.009)	7346	0.31225	25.3366	
13 Carbazole	167		5.898	5.898	(1.028)	5737	0.28463	23.0957(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592	(1.149)	57231	2.23293	181.1866
16 Pyrene	202	6.757	6.757	(0.880)	49672	2.09536	170.0235
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	35950	1.58545	128.6482
19 Chrysene	228	7.698	7.698	(1.002)	53175	2.18056	176.9369
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	53424	2.27282	184.4234(M)
21 Benzo(k)fluoranthene	252	8.533	8.533	(0.964)	11556	0.50831	41.2458(QMH)
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	23343	1.05481	85.5907
24 Indeno(1,2,3-cd)pyrene	276	9.986	9.992	(1.128)	19687	0.93662	75.9998(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009	(1.132)	7152	0.36834	29.8881(Q)
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	27159	1.26600	102.7266

QC Flag Legend

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

Data File: 1CD03029.D

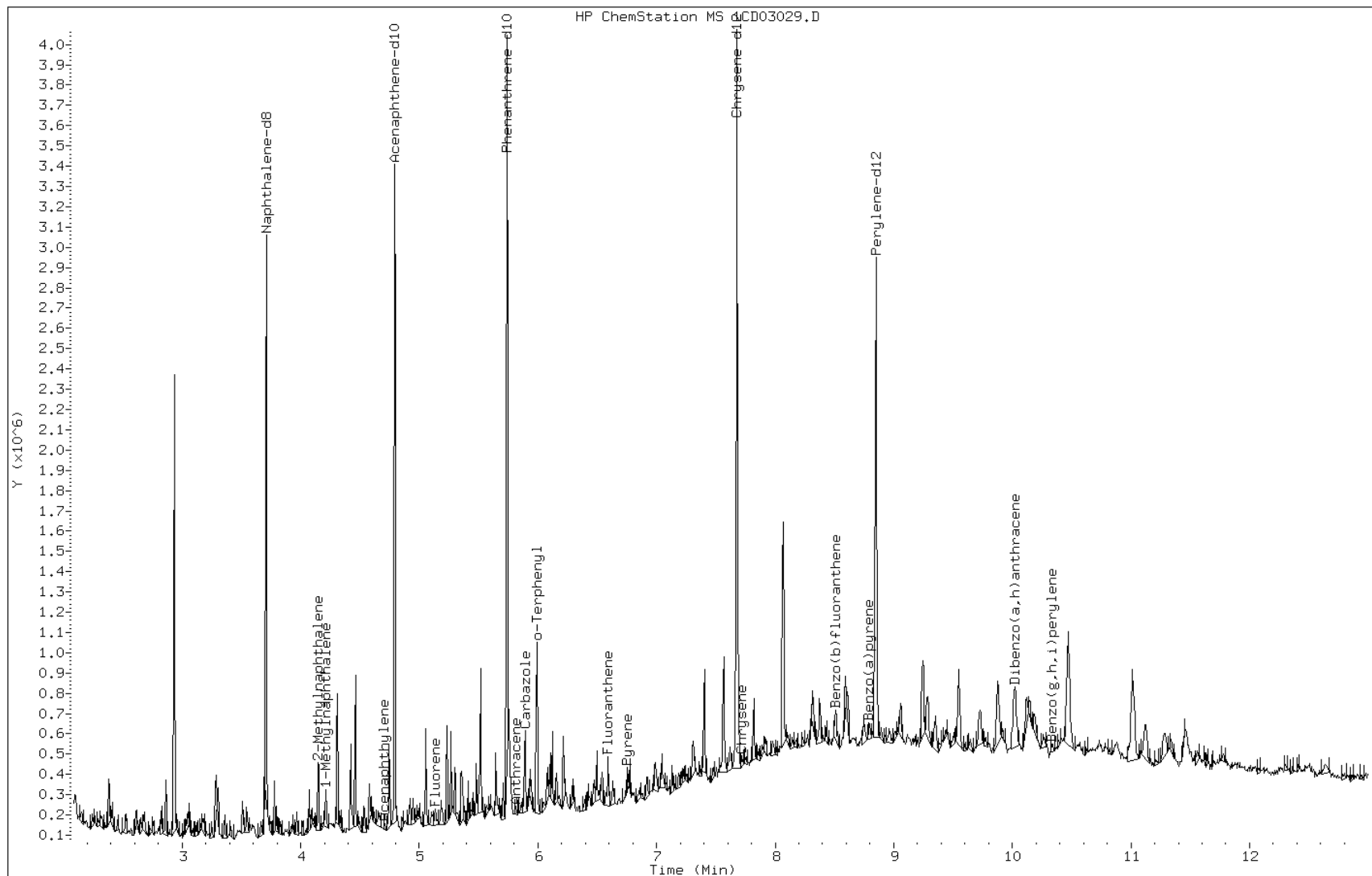
Date: 03-APR-2013 19:50

Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

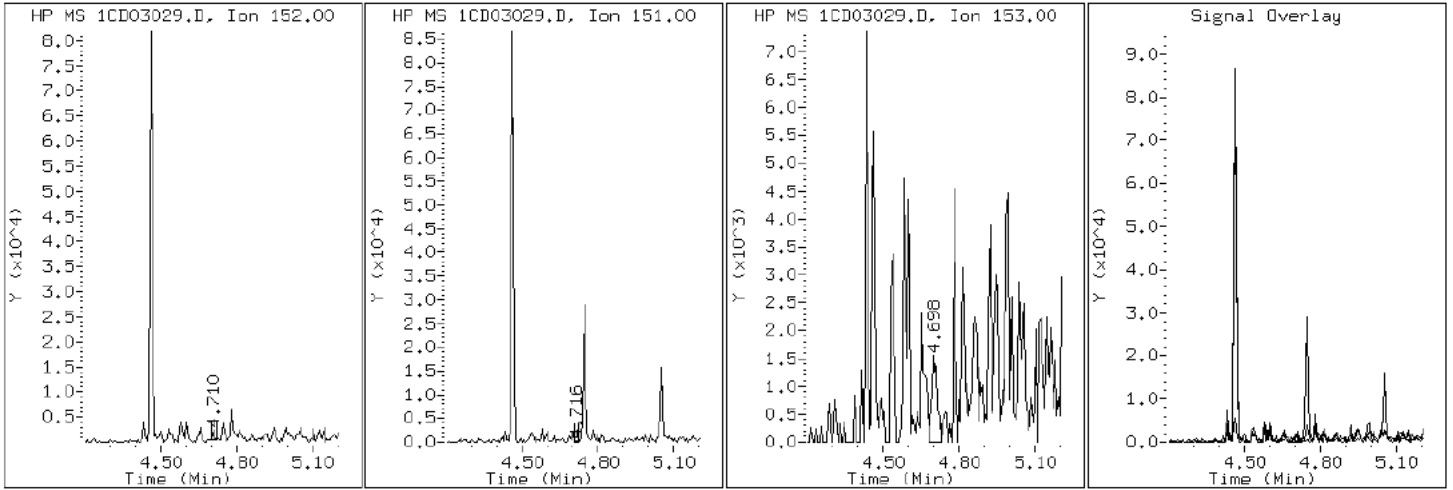
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

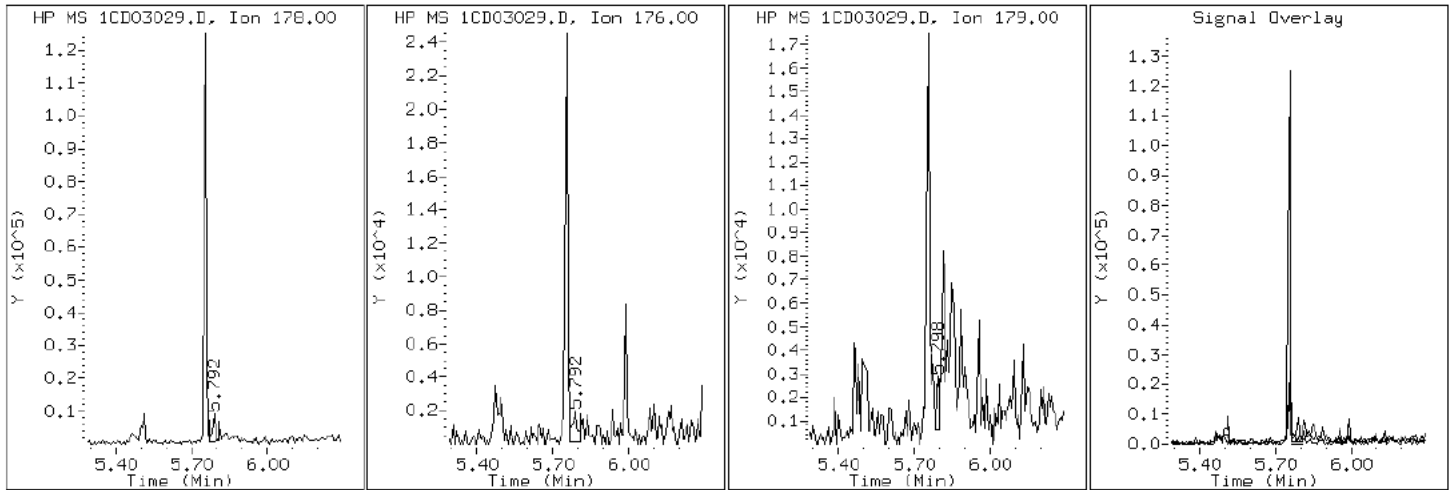
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

12 Anthracene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

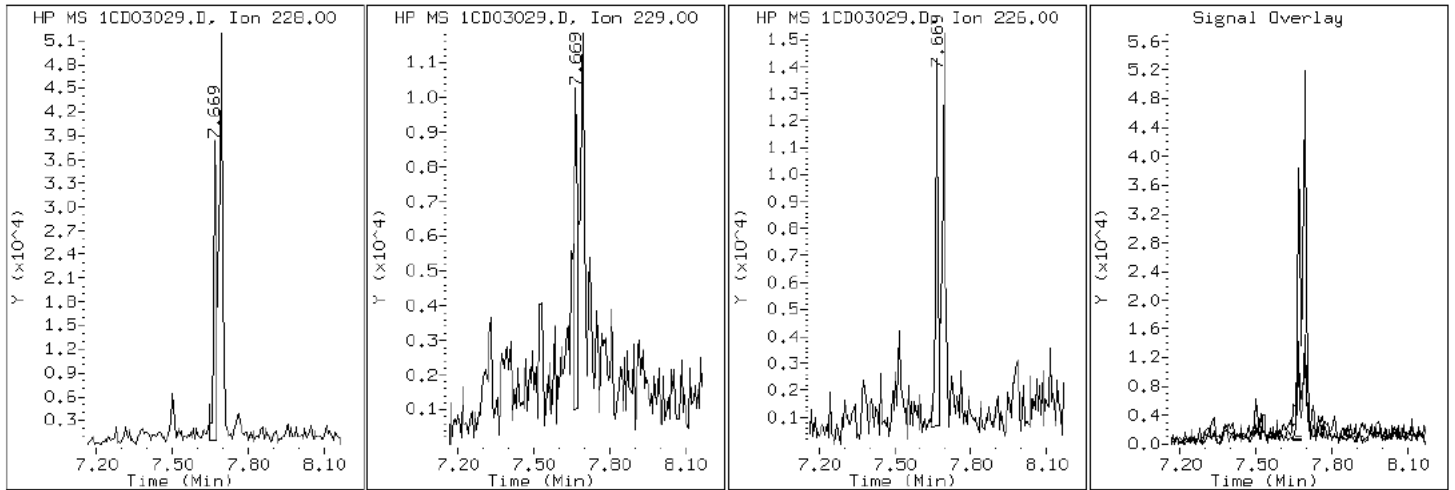
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

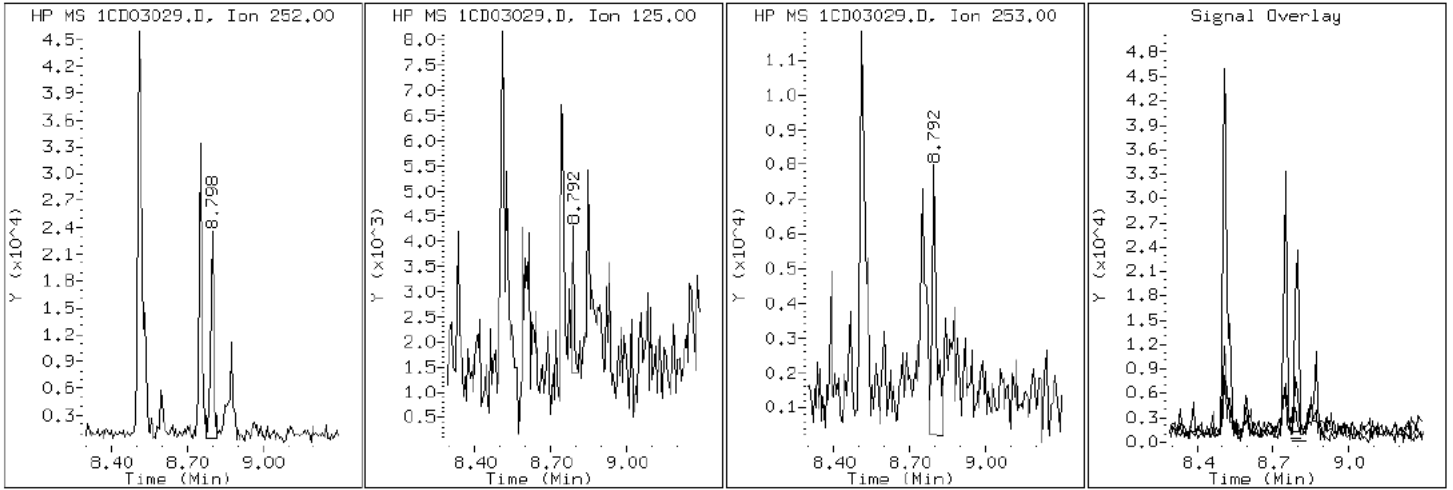
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

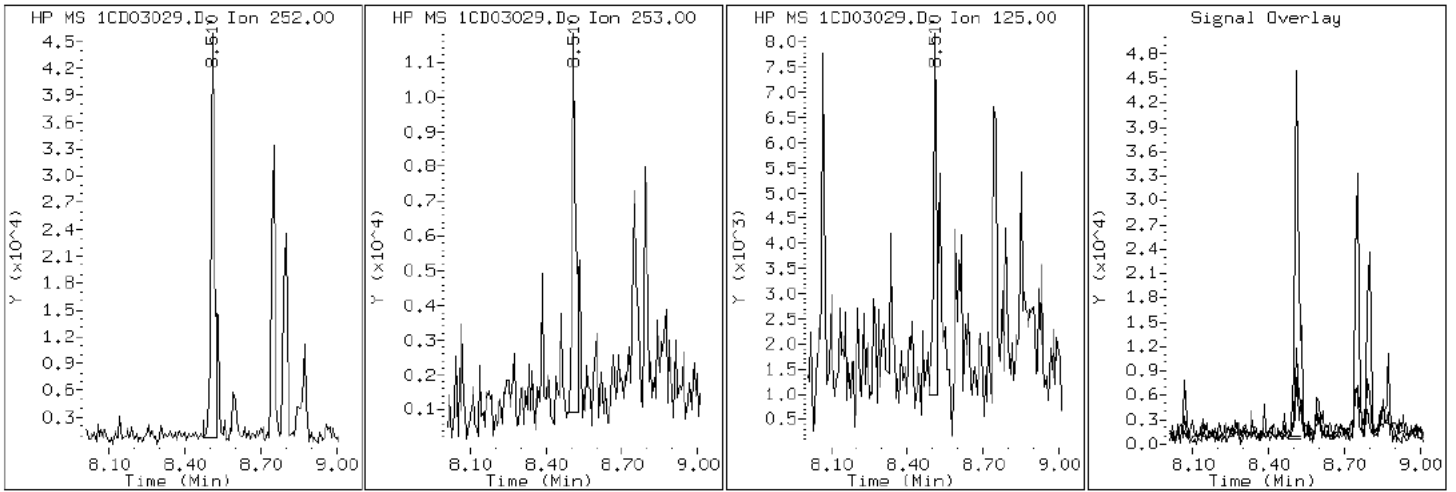
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD03029.D

Date: 03-APR-2013 19:50

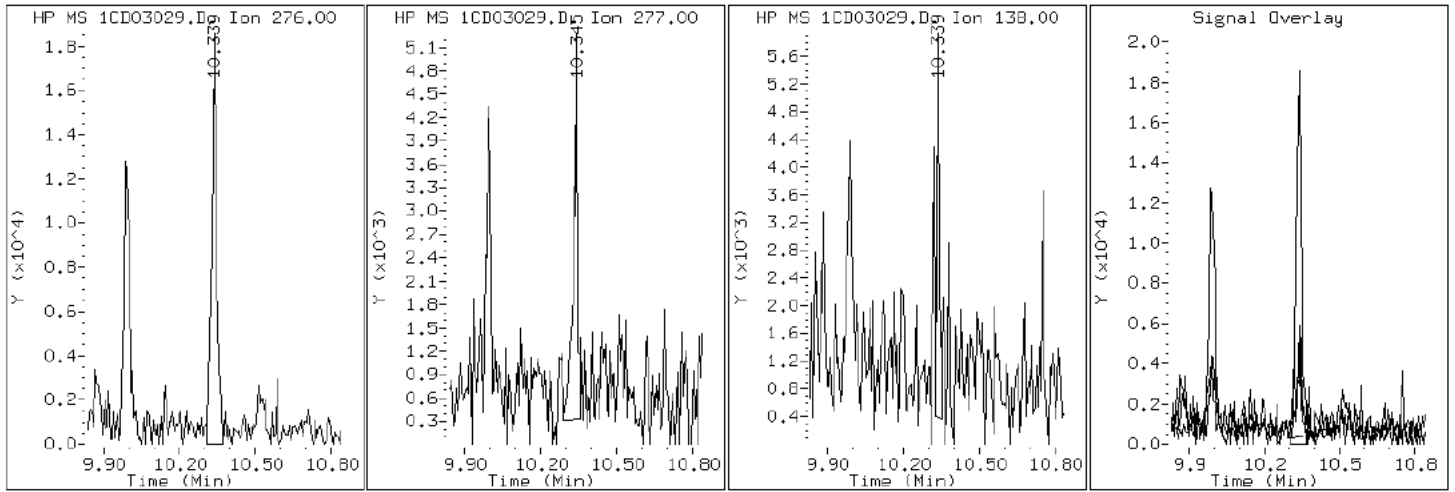
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

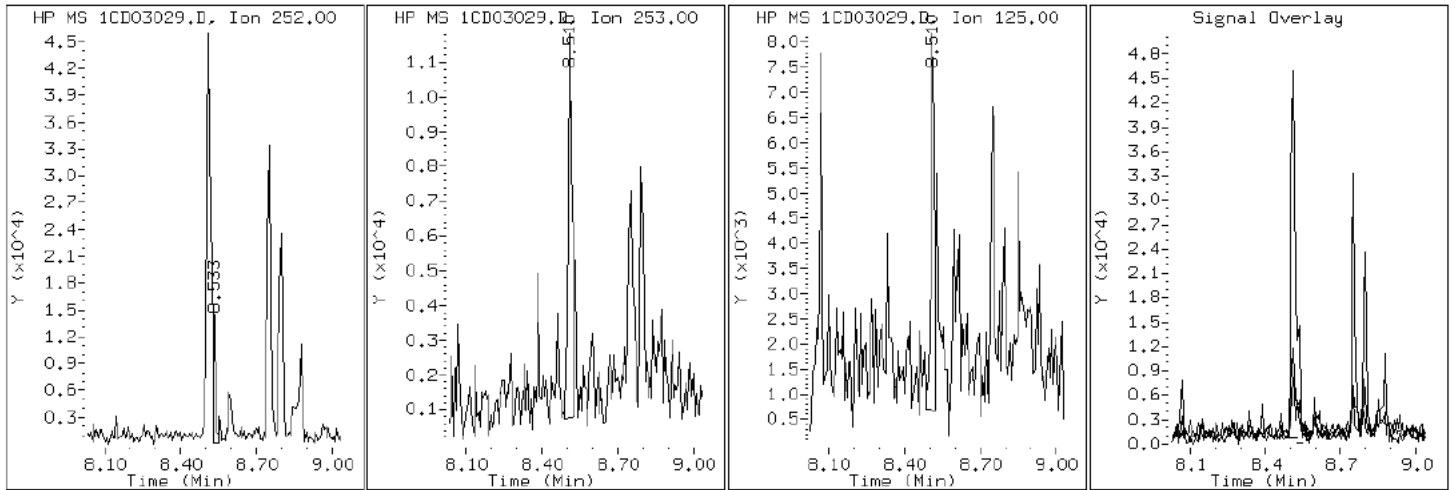
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

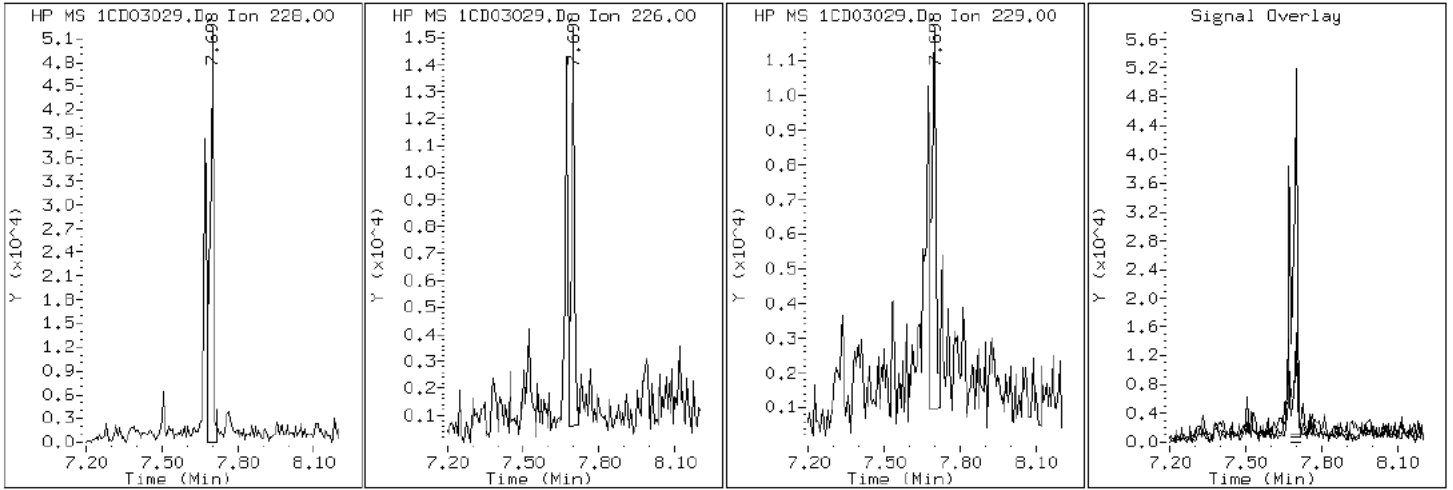
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

19 Chrysene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

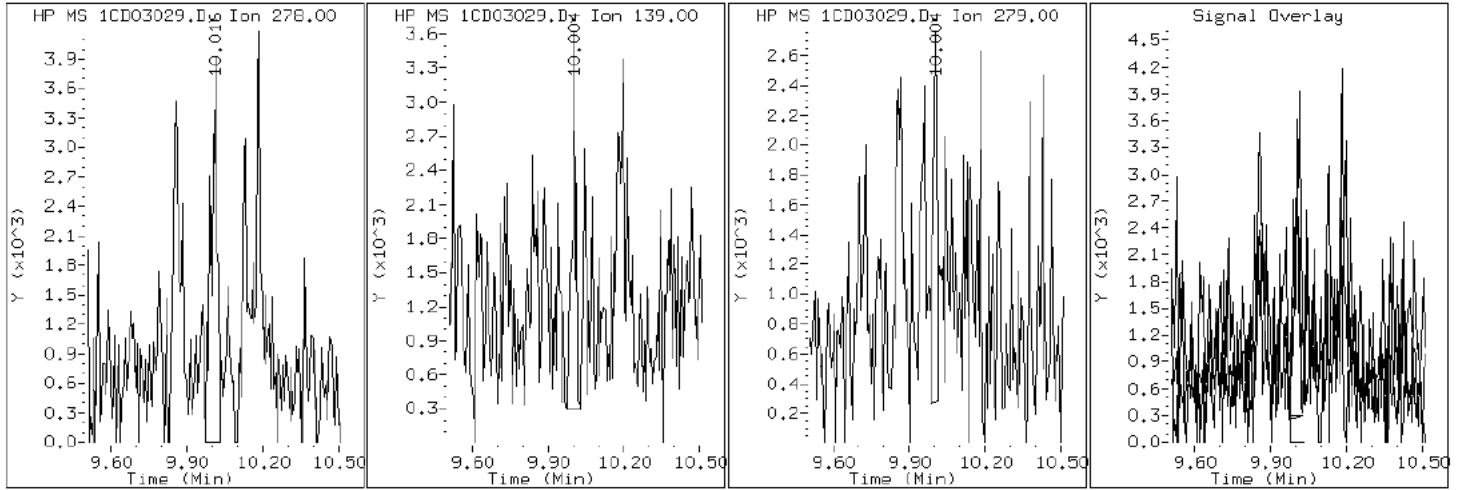
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

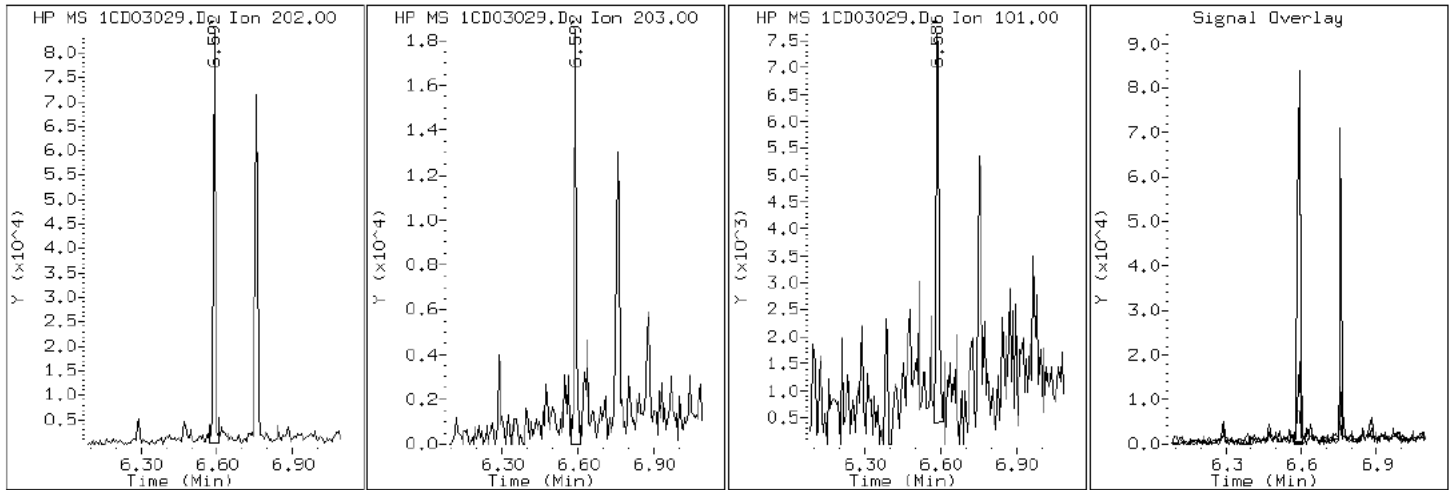
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

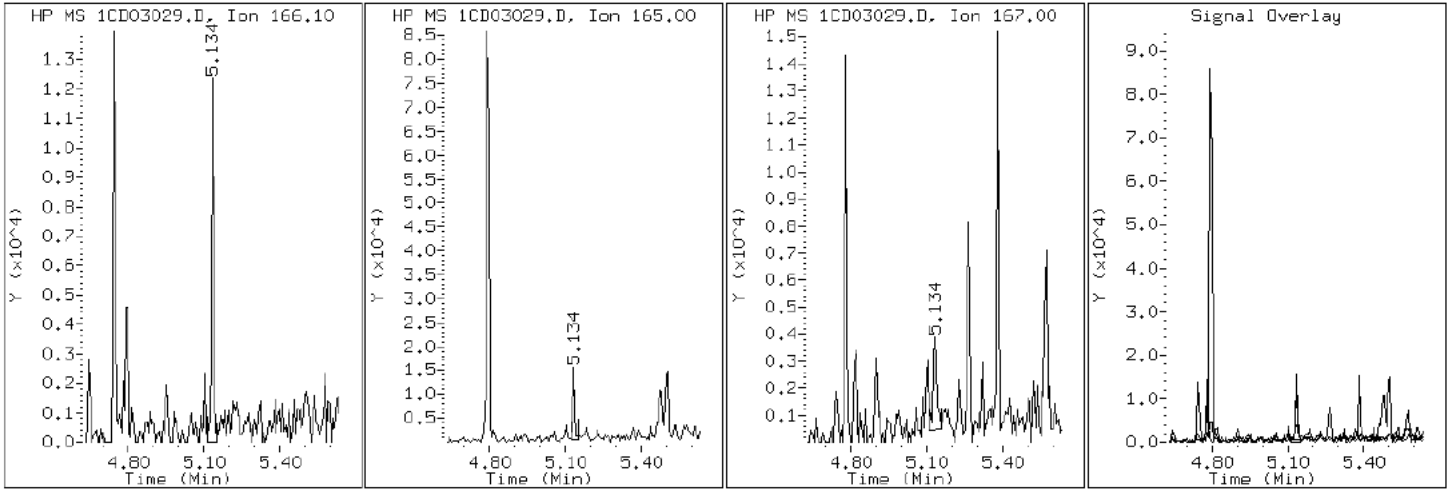
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

9 Fluorene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

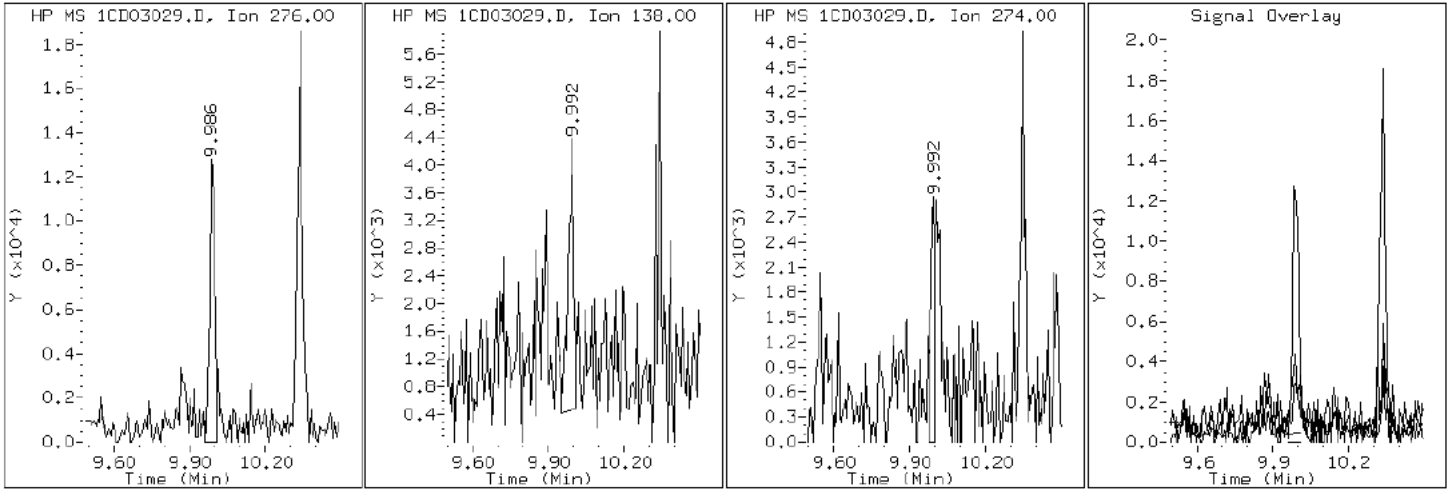
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

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



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

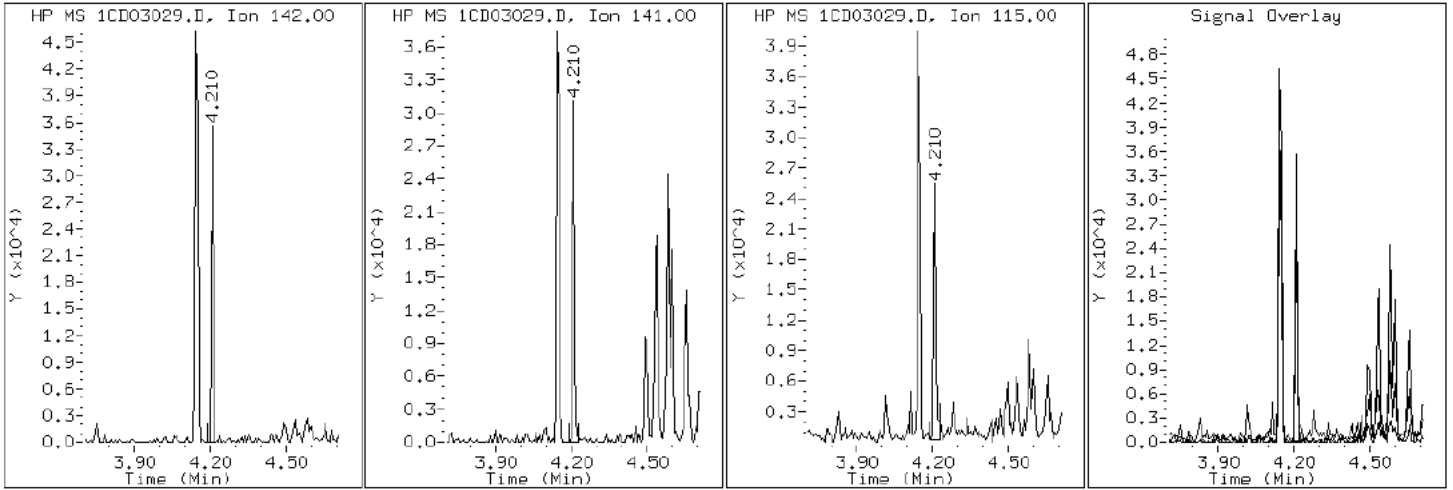
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD03029.D

Date: 03-APR-2013 19:50

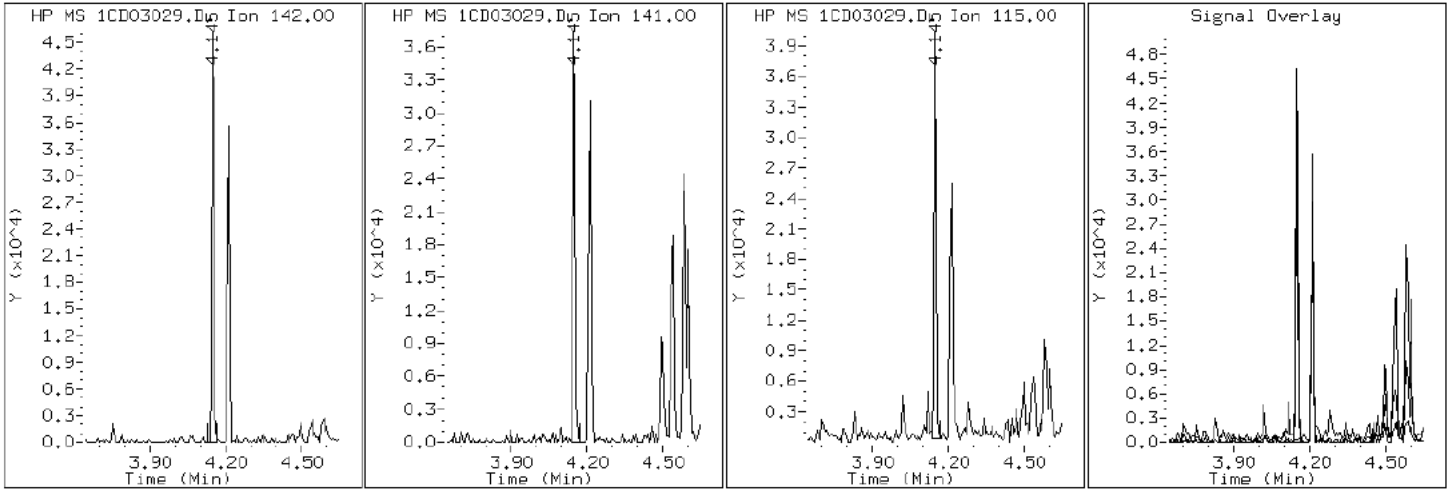
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

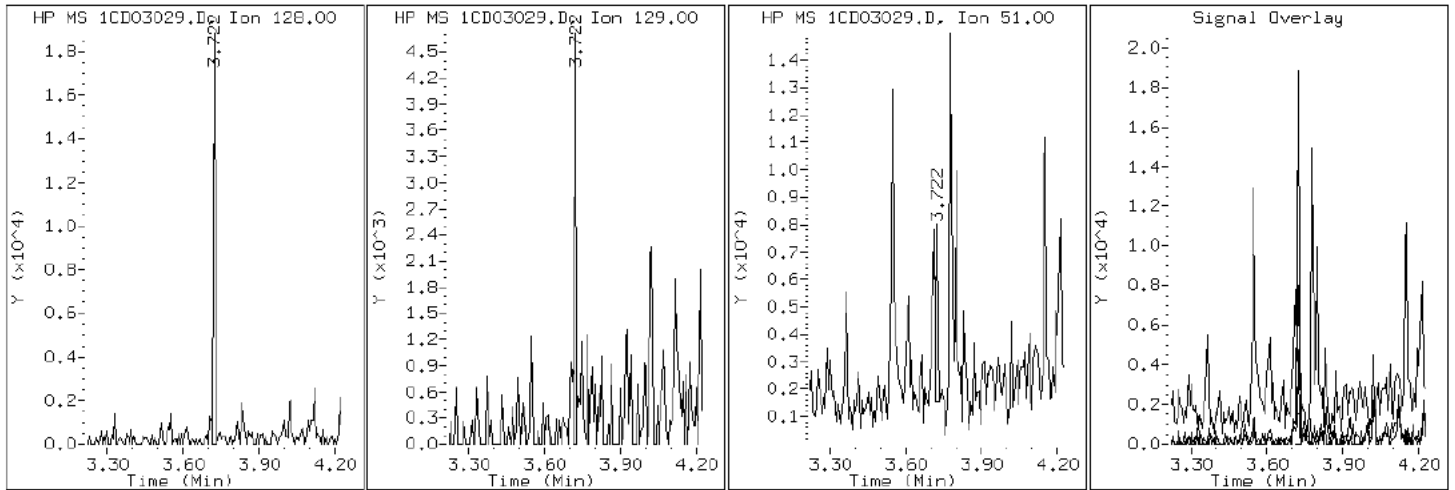
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

2 Naphthalene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

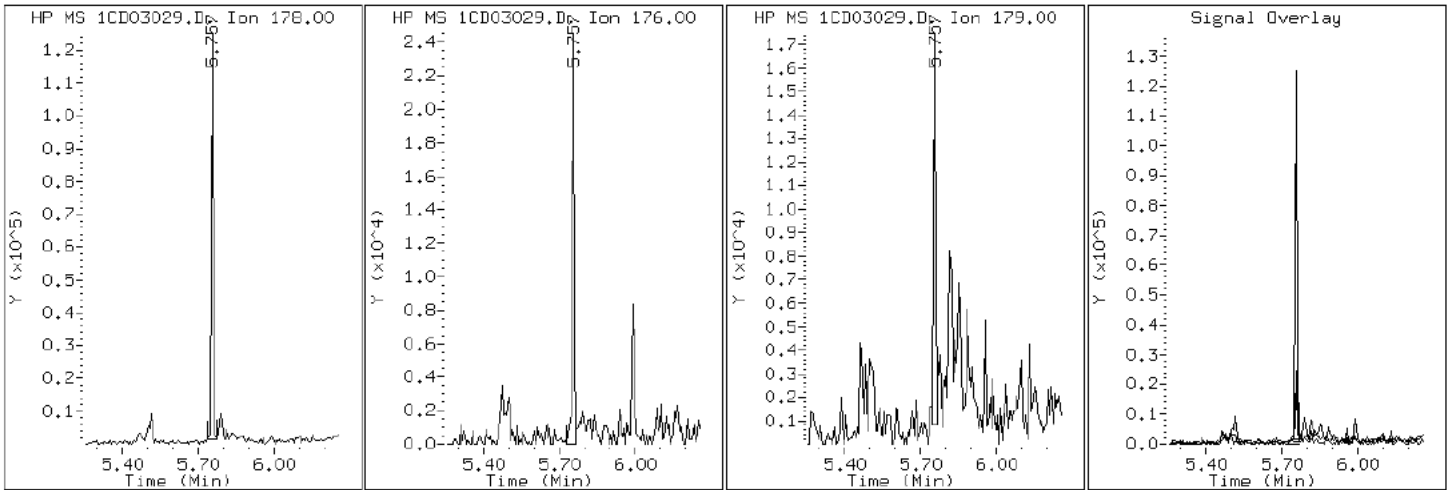
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03029.D

Date: 03-APR-2013 19:50

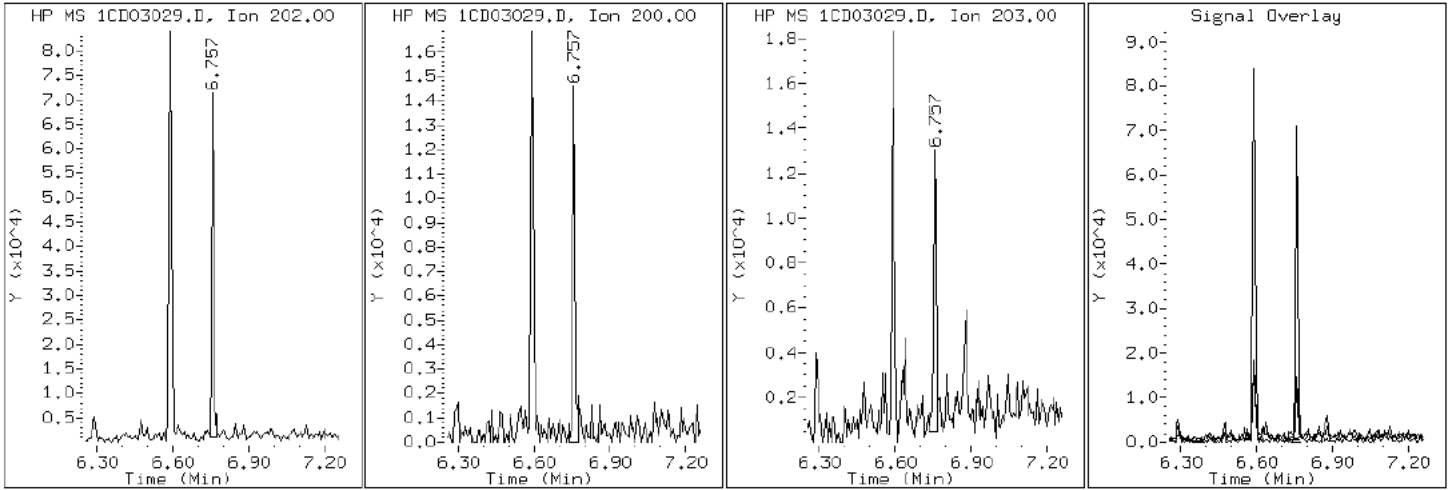
Client ID: CV0509AD-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-5-b

Operator: SCC

16 Pyrene

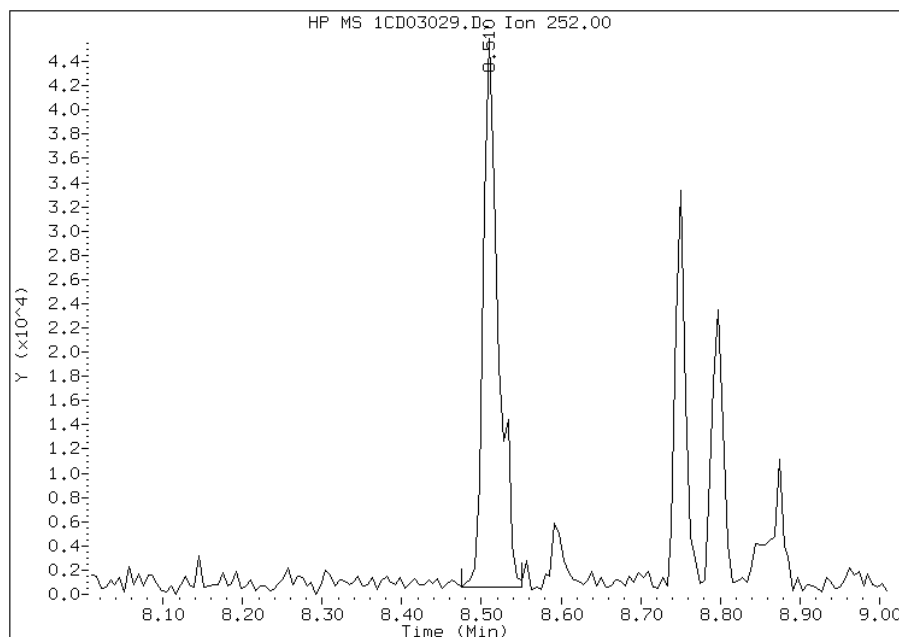


# Manual Integration Report

Data File: 1CD03029.D  
Inj. Date and Time: 03-APR-2013 19:50  
Instrument ID: BSMC5973.i  
Client ID: CV0509AD-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

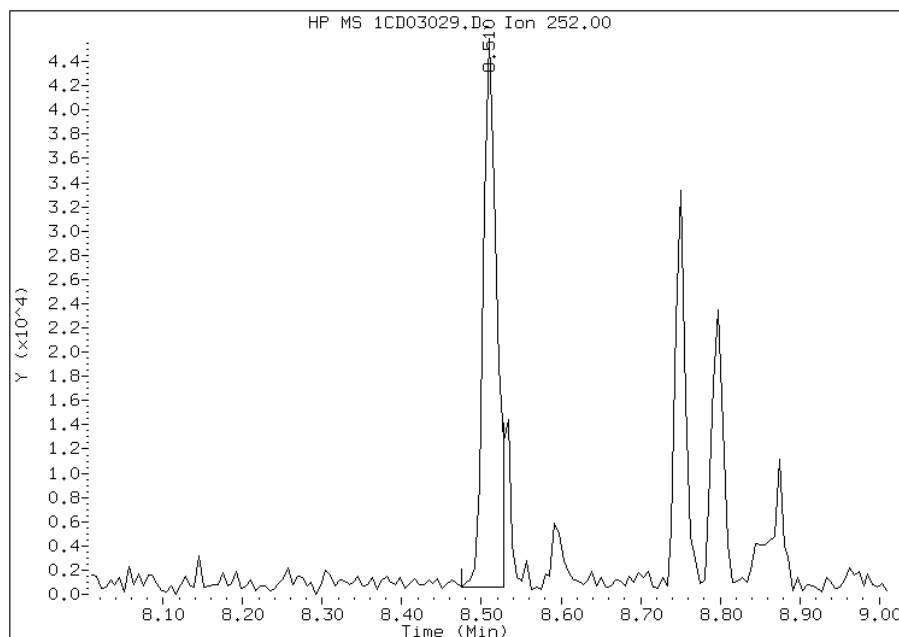
## Processing Integration Results

RT: 8.51  
Response: 59967  
Amount: 3  
Conc: 207



## Manual Integration Results

RT: 8.51  
Response: 53424  
Amount: 2  
Conc: 184



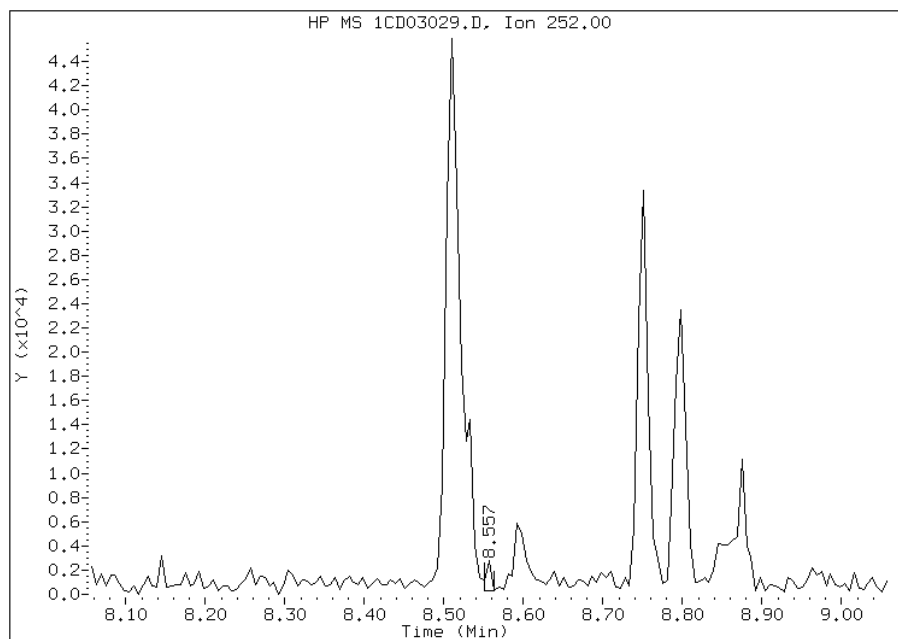
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:38  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03029.D  
Inj. Date and Time: 03-APR-2013 19:50  
Instrument ID: BSMC5973.i  
Client ID: CV0509AD-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

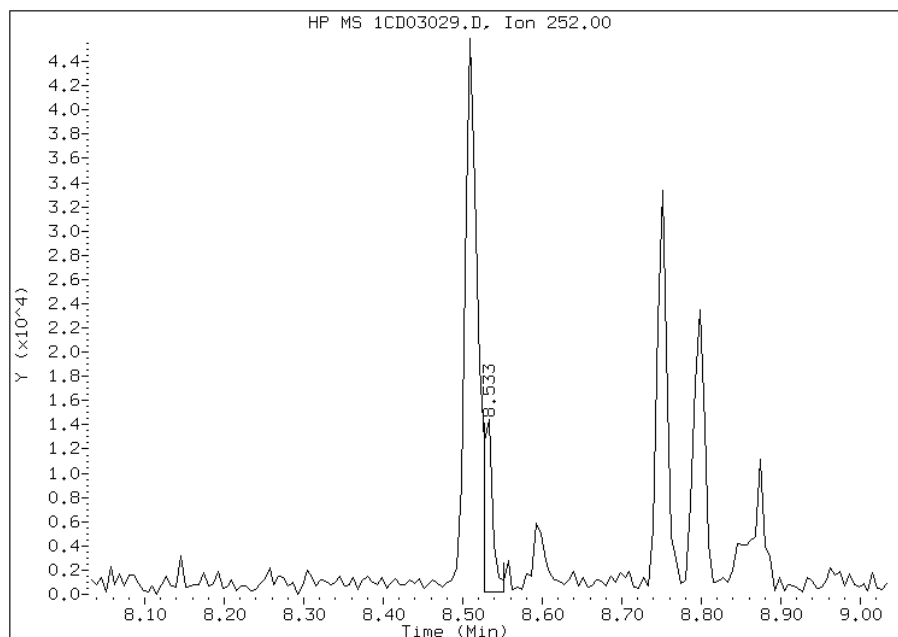
## Processing Integration Results

RT: 8.56  
Response: 1171  
Amount: 0  
Conc: 4



## Manual Integration Results

RT: 8.53  
Response: 11556  
Amount: 1  
Conc: 41



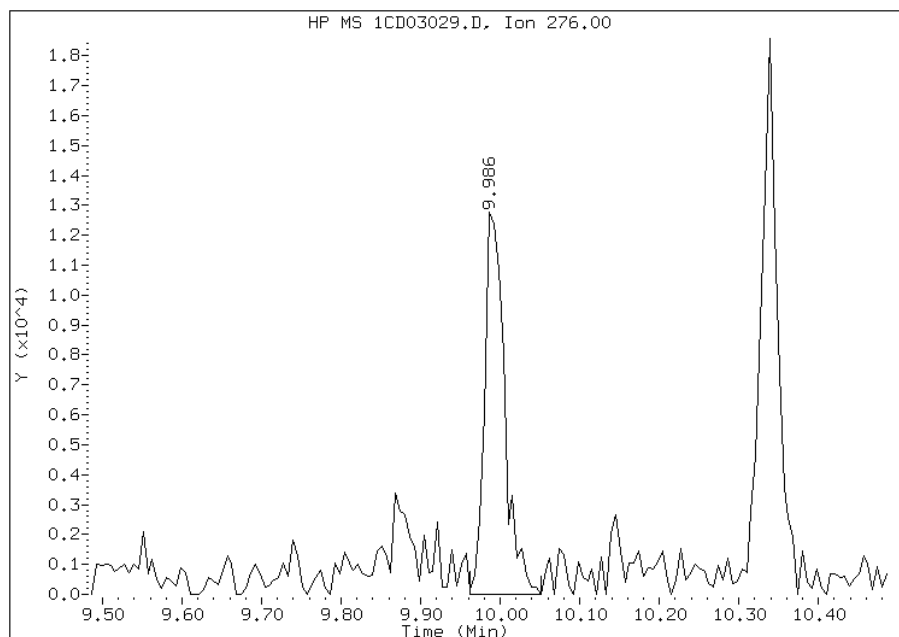
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:38  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03029.D  
Inj. Date and Time: 03-APR-2013 19:50  
Instrument ID: BSMC5973.i  
Client ID: CV0509AD-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

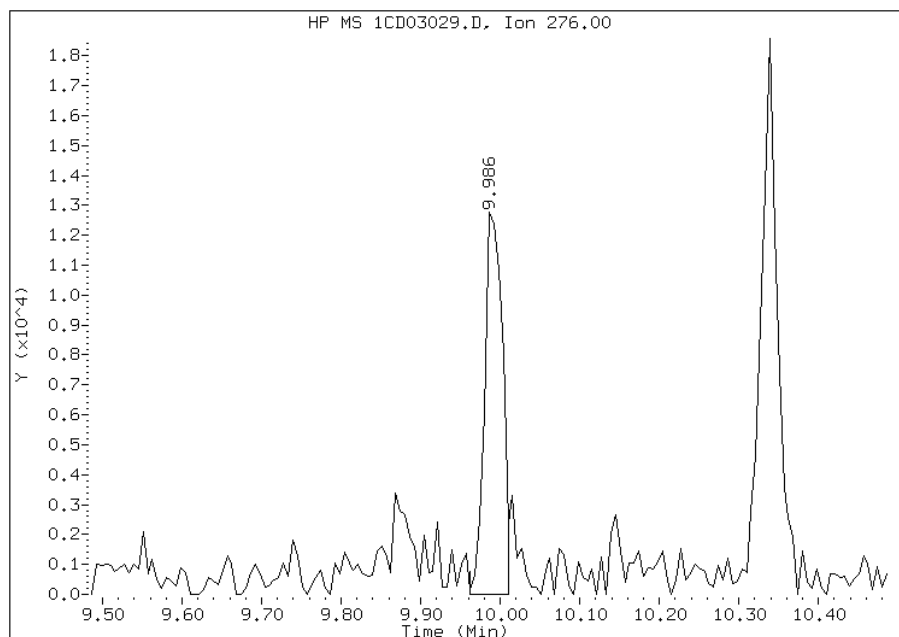
## Processing Integration Results

RT: 9.99  
Response: 22210  
Amount: 1  
Conc: 86



## Manual Integration Results

RT: 9.99  
Response: 19687  
Amount: 1  
Conc: 76



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:38  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509AE-GS Lab Sample ID: 680-88767-6  
 Matrix: Solid Lab File ID: 1CD03030.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:24  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.71(g) Date Analyzed: 04/03/2013 20:08  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 27.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	29	J	140	28
208-96-8	Acenaphthylene	56	U	56	7.1
120-12-7	Anthracene	54		12	5.9
56-55-3	Benzo[a]anthracene	150		11	5.5
50-32-8	Benzo[a]pyrene	86		15	7.3
205-99-2	Benzo[b]fluoranthene	240		17	8.6
191-24-2	Benzo[g,h,i]perylene	110		28	6.2
207-08-9	Benzo[k]fluoranthene	76		11	5.1
218-01-9	Chrysene	220		13	6.3
53-70-3	Dibenz(a,h)anthracene	34		28	5.8
206-44-0	Fluoranthene	410		28	5.6
86-73-7	Fluorene	45		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	83		28	10
90-12-0	1-Methylnaphthalene	68		56	6.2
91-57-6	2-Methylnaphthalene	75		56	10
91-20-3	Naphthalene	100		56	6.2
85-01-8	Phenanthrene	340		11	5.5
129-00-0	Pyrene	330		28	5.2

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03030.D  
 Lab Smp Id: 680-88767-A-6-B Client Smp ID: CV0509AE-GS  
 Inj Date : 03-APR-2013 20:08  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-6-b  
 Misc Info : 680-88767-A-6-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins 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	14.710	Weight Extracted
M	27.682	% 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		3.710	3.704	(1.000)	602232	40.0000		
* 6 Acenaphthene-d10	164		4.798	4.792	(1.000)	436638	40.0000		
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	804909	40.0000		
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	77845	6.65054	625.1727	
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	840928	40.0000		
* 23 Perylene-d12	264		8.850	8.851	(1.000)	794290	40.0000		
2 Naphthalene	128		3.721	3.722	(1.003)	16869	1.09056	102.5162	
3 2-Methylnaphthalene	142		4.151	4.145	(1.119)	8371	0.79501	74.7334(Q)	
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	6870	0.72511	68.1625	
7 Acenaphthene	154		4.815	4.816	(1.004)	3432	0.30662	28.8237(Q)	
9 Fluorene	166		5.133	5.133	(1.070)	7185	0.48153	45.2655	
11 Phenanthrene	178		5.757	5.757	(1.003)	84341	3.59775	338.2007	
12 Anthracene	178		5.792	5.792	(1.009)	13656	0.57465	54.0190	
13 Carbazole	167		5.904	5.898	(1.029)	18508	0.90905	85.4538	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.592	6.592 (1.149)		113646	4.38966	412.6423
16 Pyrene	202	6.756	6.757 (0.880)		80658	3.46256	325.4918
17 Benzo(a)anthracene	228	7.674	7.668 (0.999)		36073	1.61610	151.9191
19 Chrysene	228	7.698	7.698 (1.002)		56555	2.36012	221.8591
20 Benzo(b)fluoranthene	252	8.509	8.509 (0.961)		57245	2.54929	239.6420(M)
21 Benzo(k)fluoranthene	252	8.527	8.533 (0.963)		17464	0.80412	75.5895(QMH)
22 Benzo(a)pyrene	252	8.798	8.798 (0.994)		19433	0.91920	86.4083
24 Indeno(1,2,3-cd)pyrene	276	9.997	9.992 (1.130)		17834	0.88815	83.4886(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009 (1.132)		6676	0.35991	33.8325(QM)
26 Benzo(g,h,i)perylene	276	10.344	10.339 (1.169)		23429	1.14321	107.4654

QC Flag Legend

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

Data File: 1CD03030.D

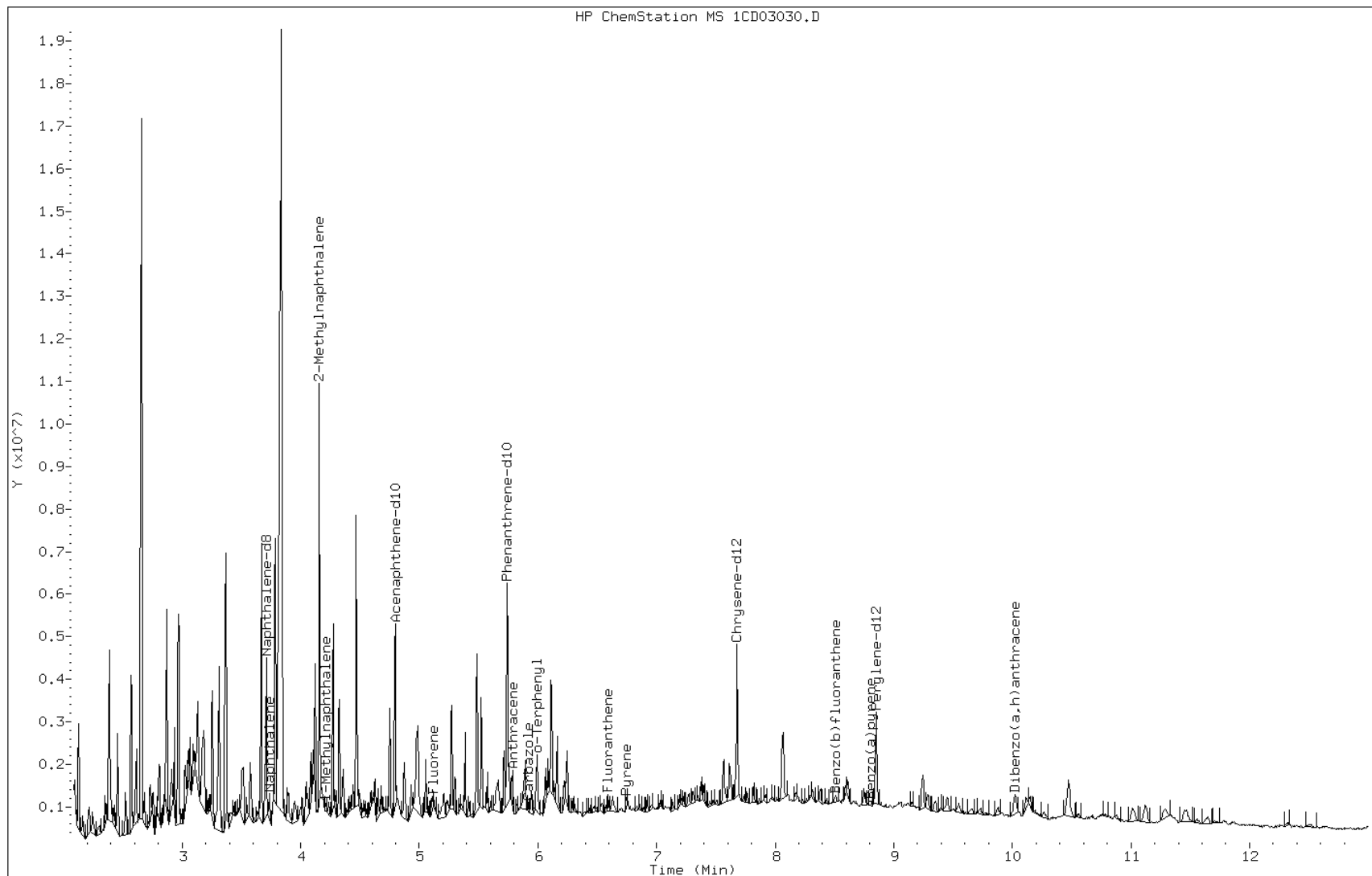
Date: 03-APR-2013 20:08

Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

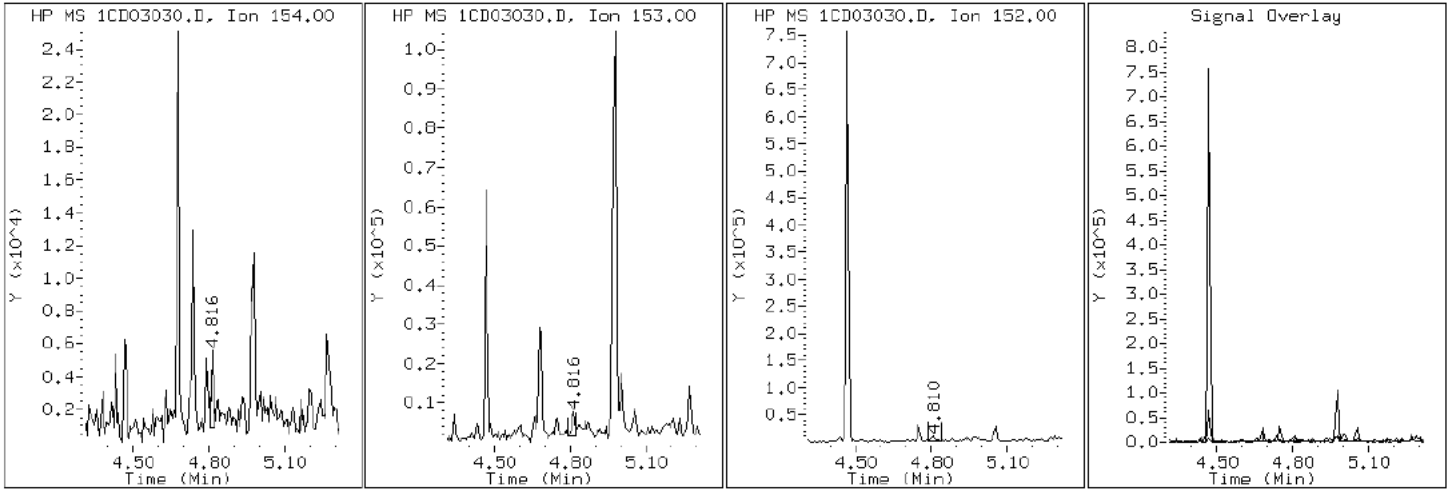
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

7 Acenaphthene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

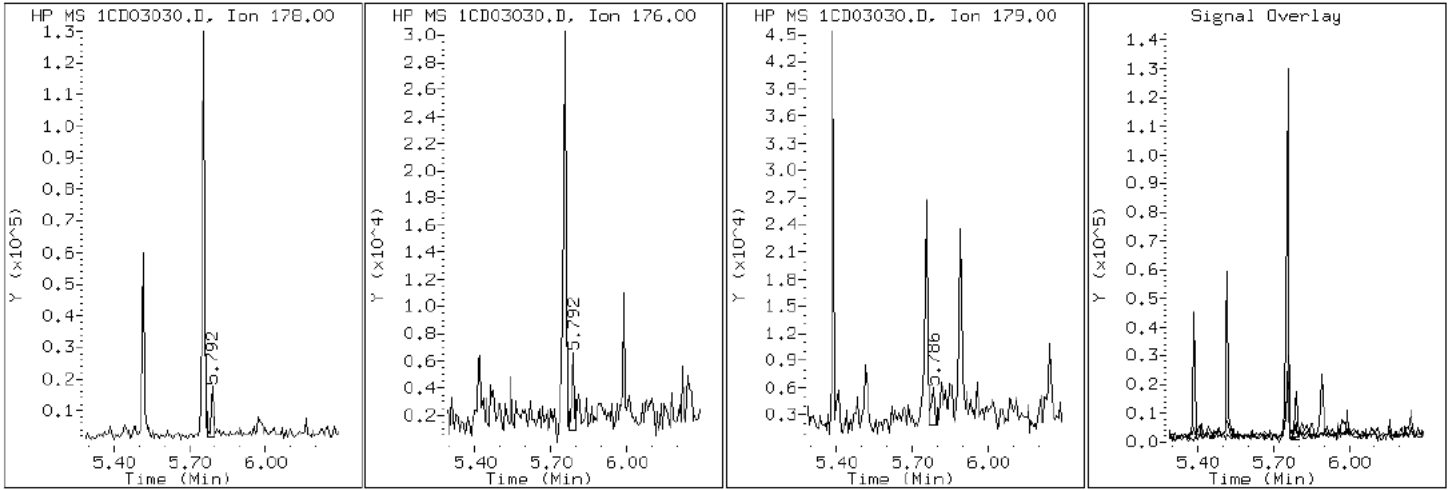
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

12 Anthracene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

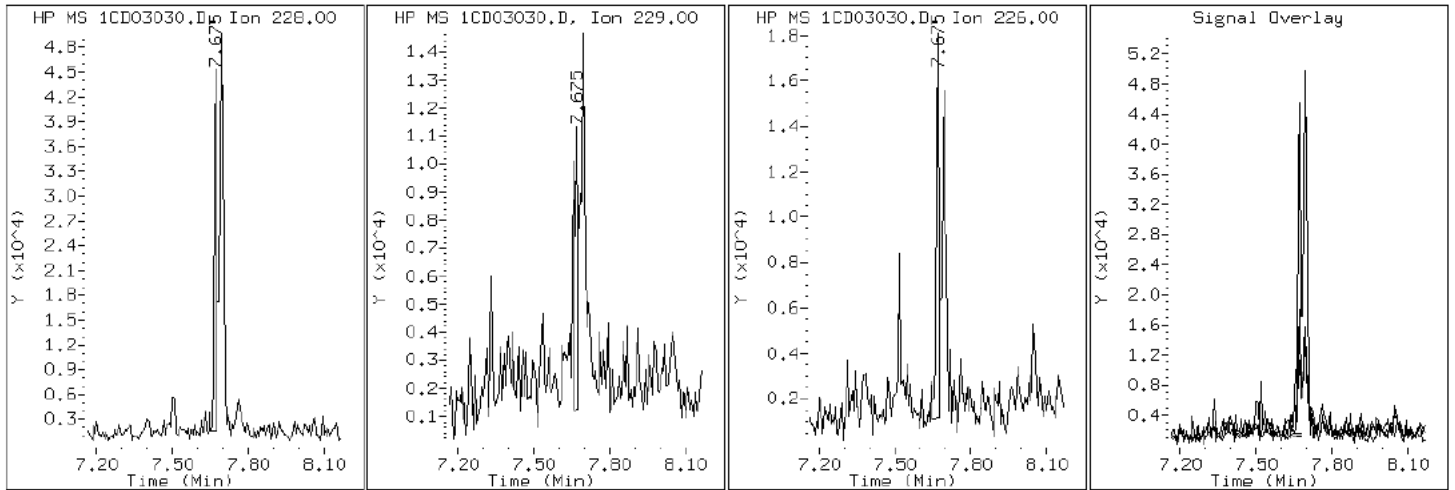
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

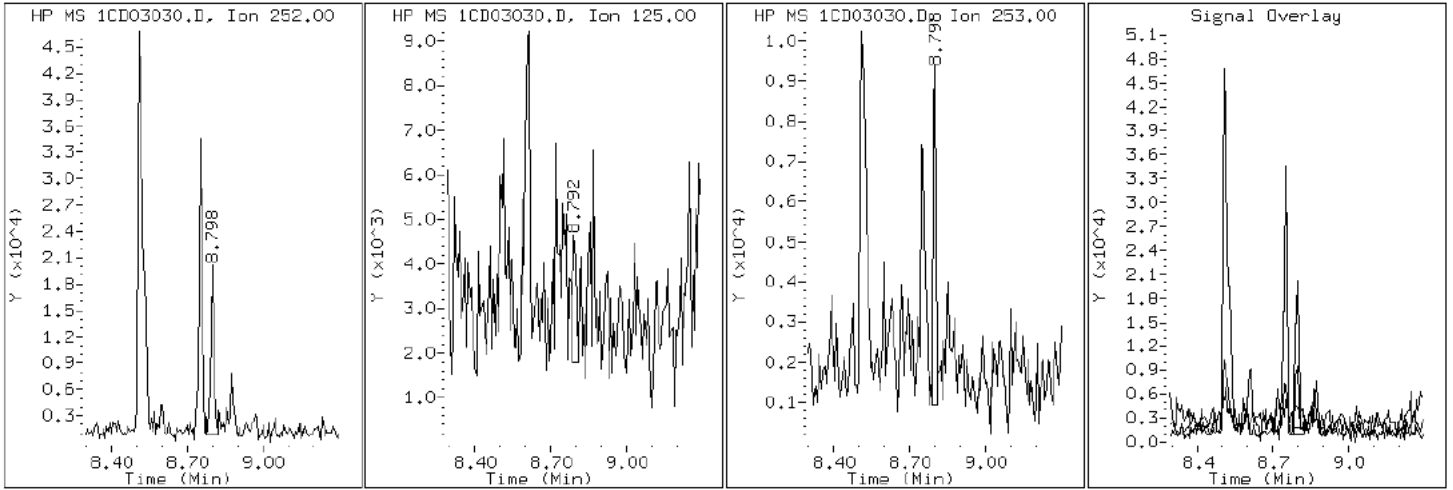
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

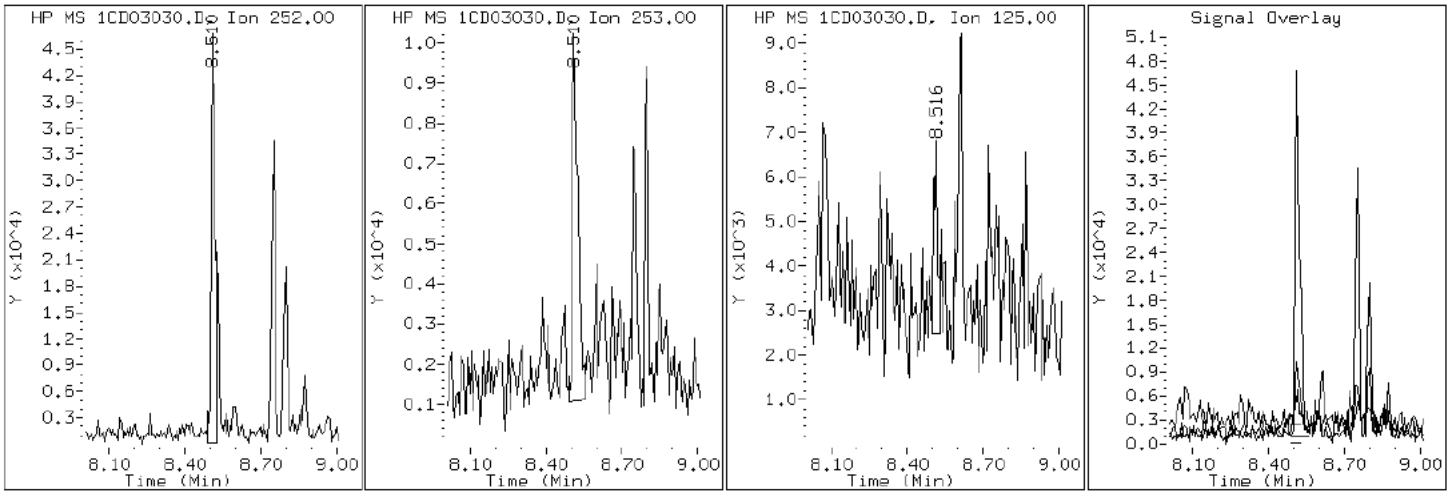
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD03030.D

Date: 03-APR-2013 20:08

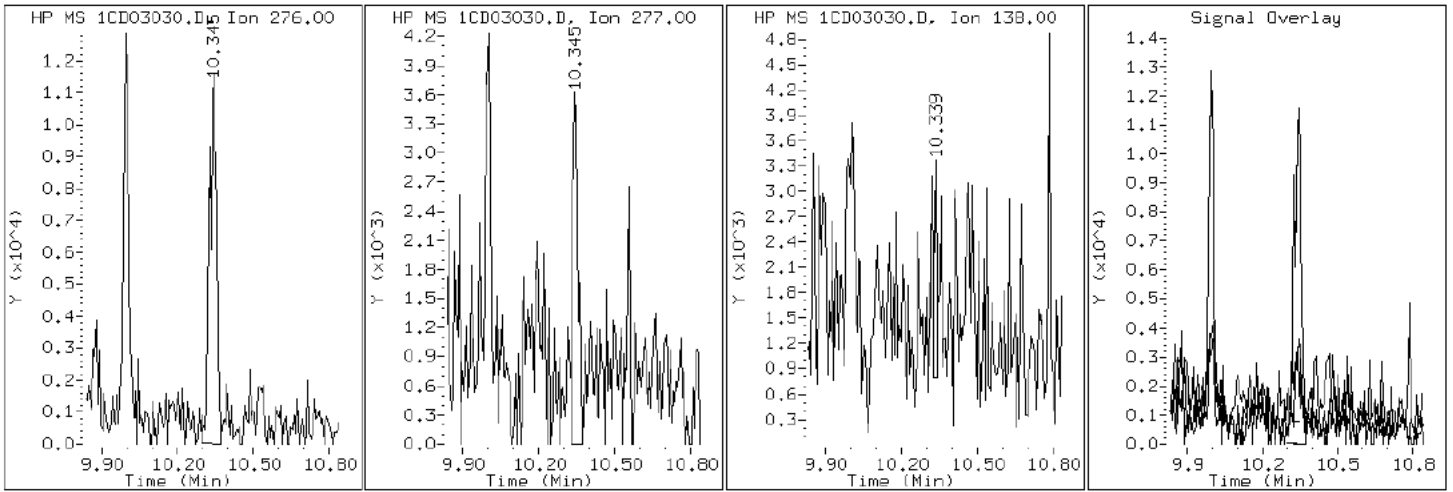
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

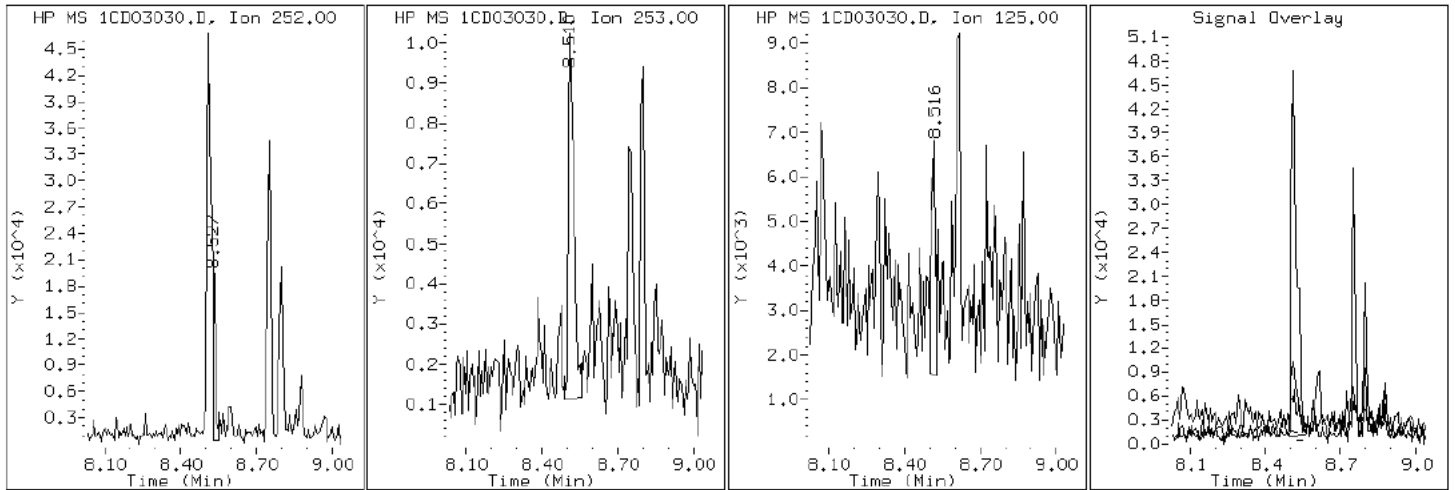
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

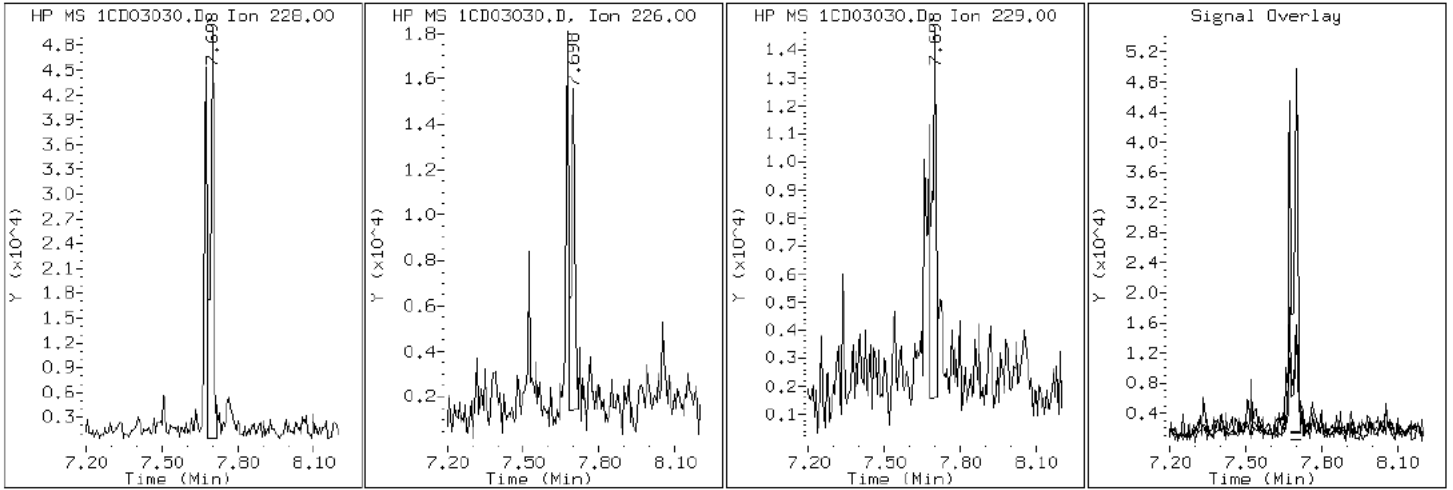
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

19 Chrysene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

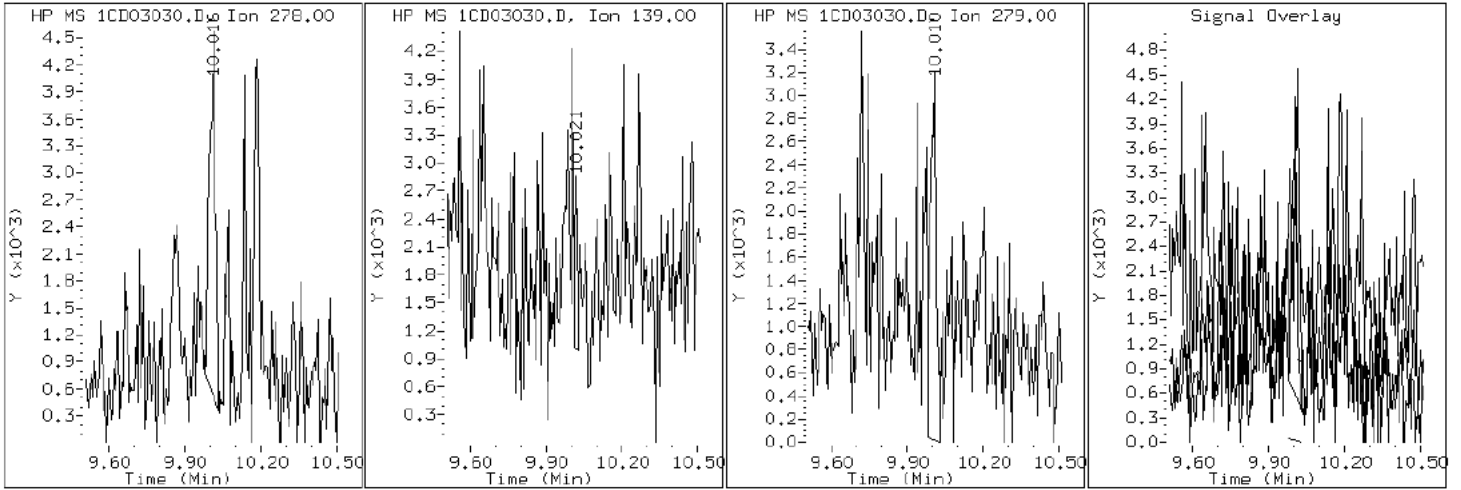
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

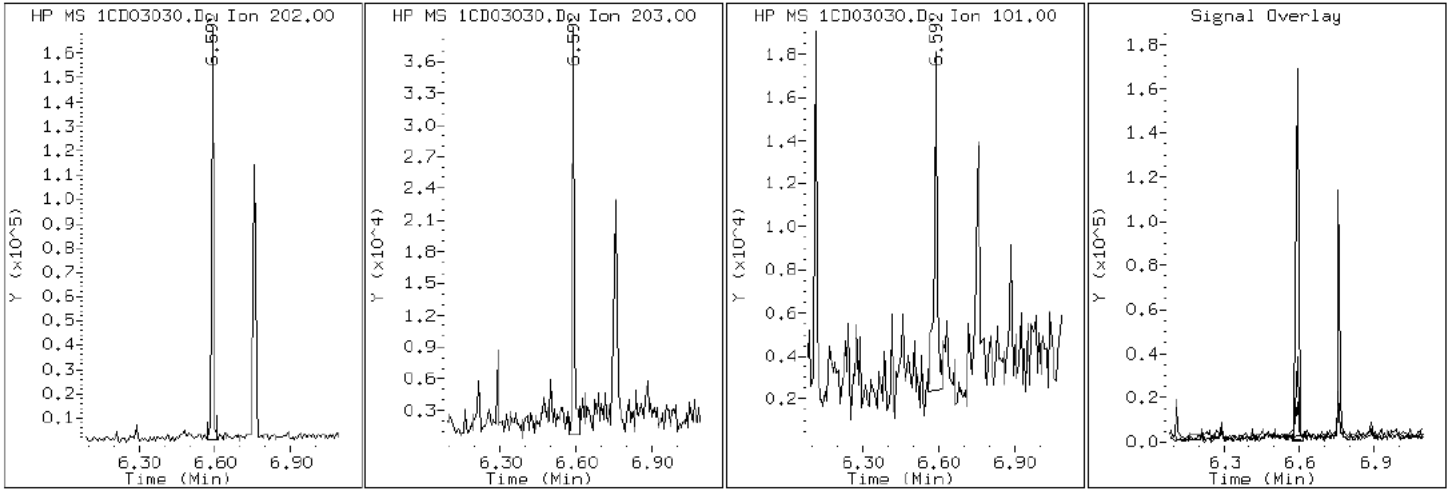
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

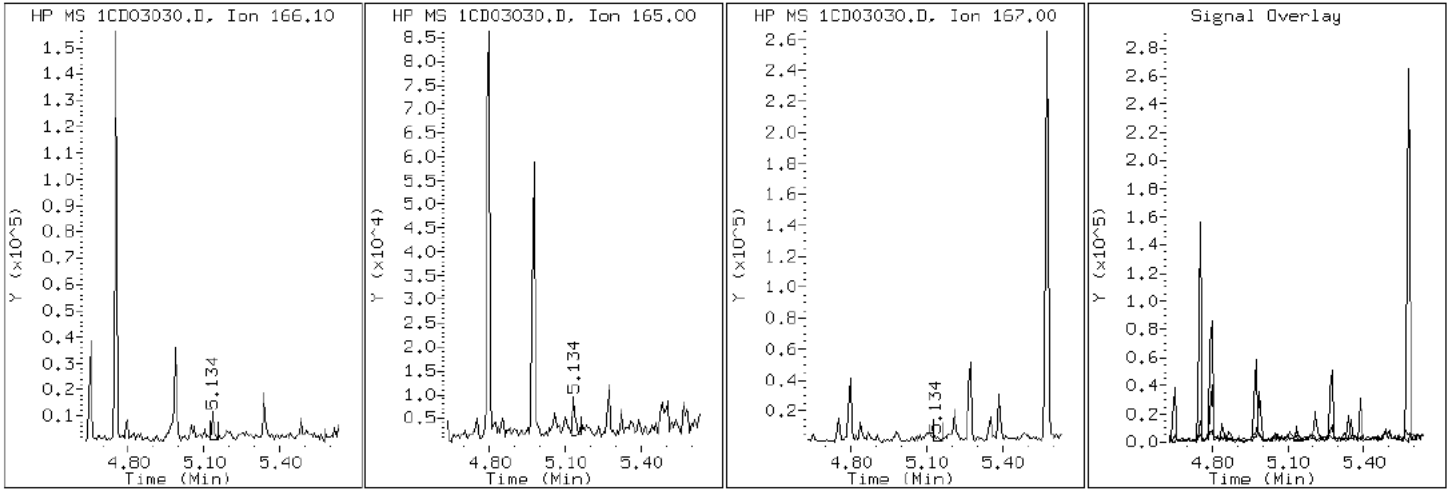
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

9 Fluorene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

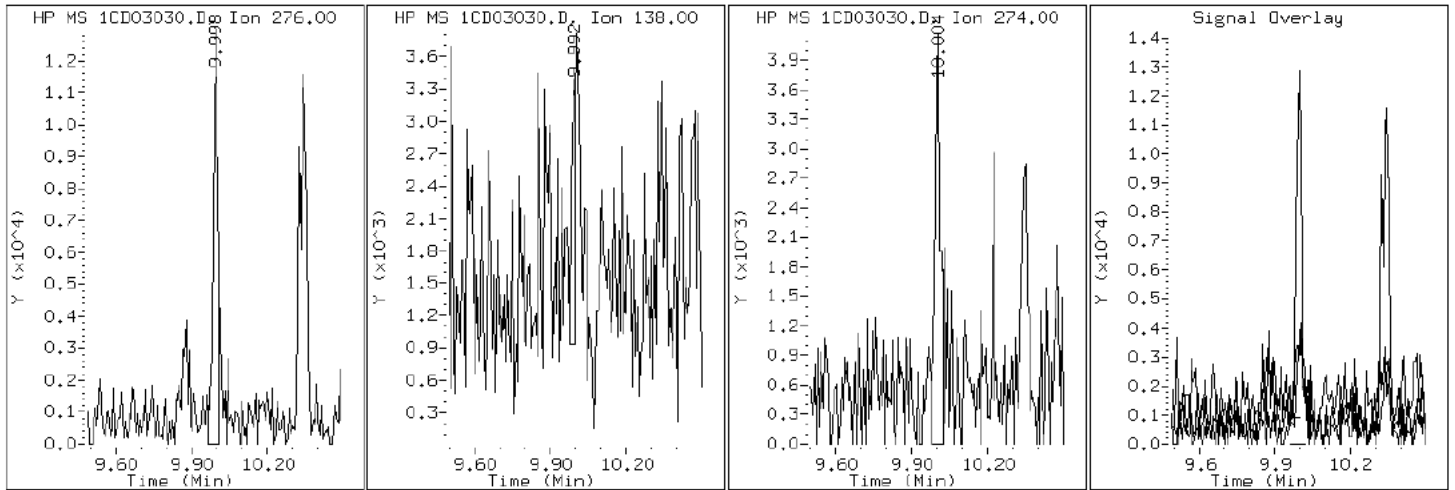
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

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



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

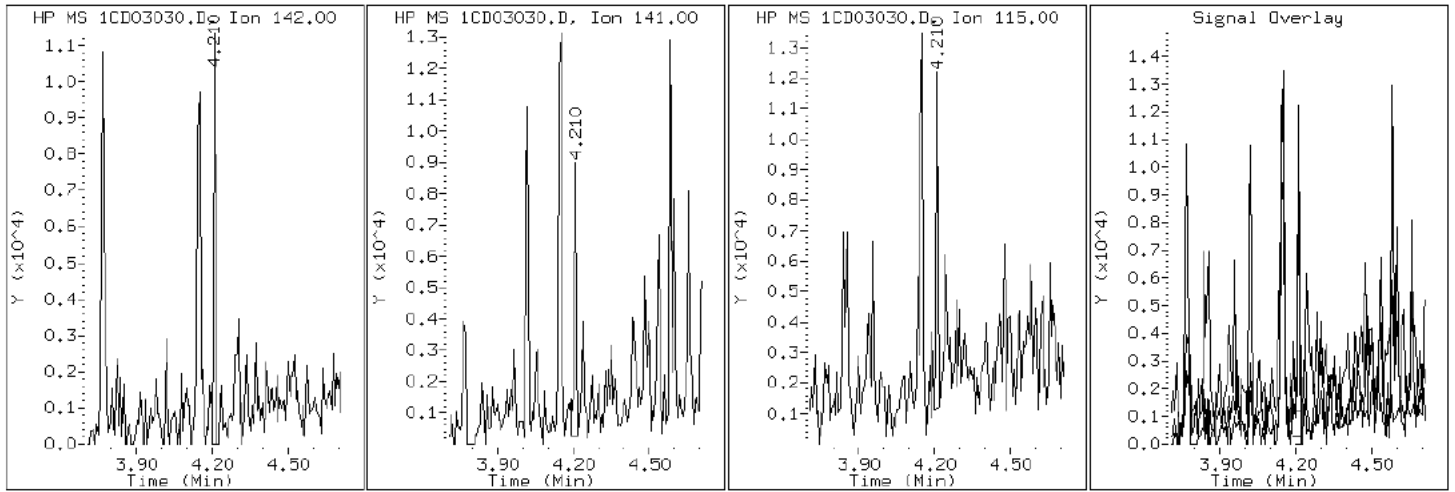
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD03030.D

Date: 03-APR-2013 20:08

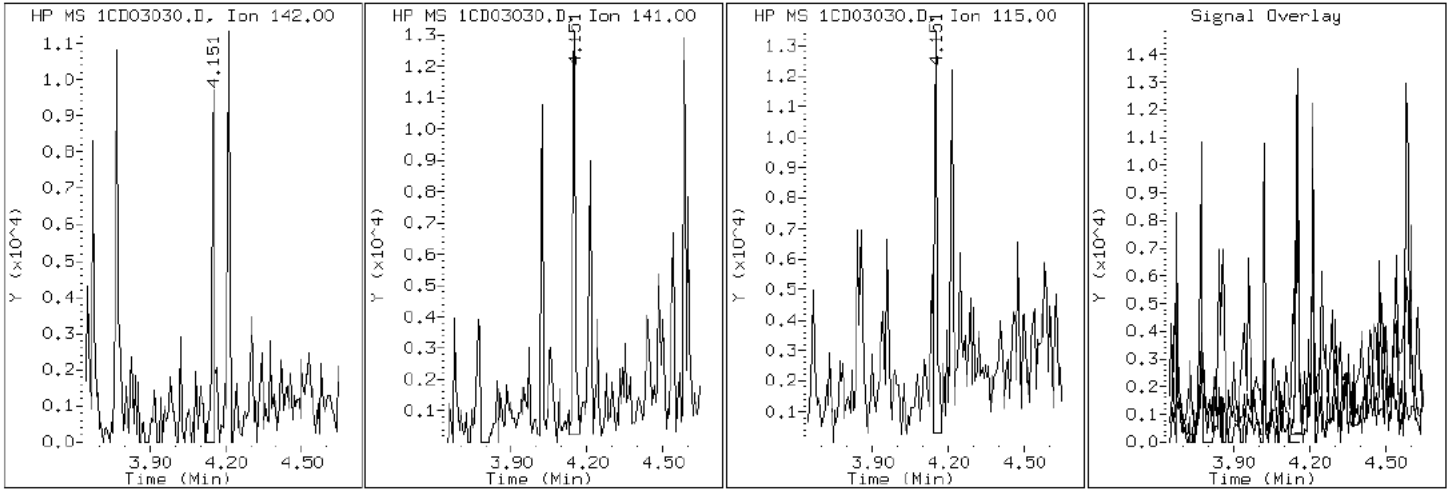
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

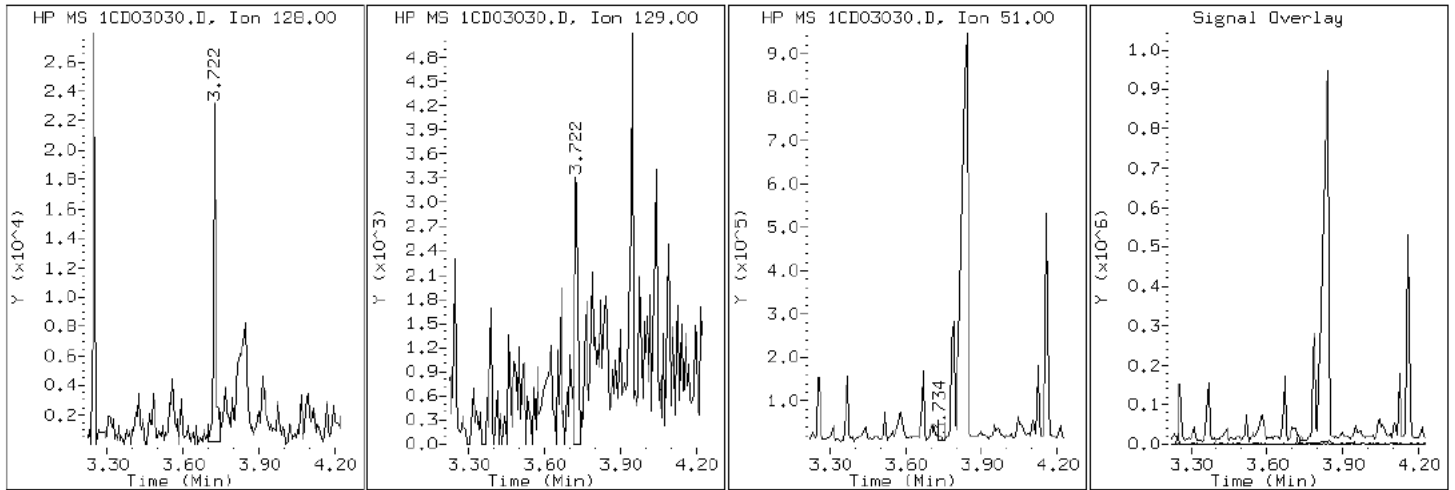
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

2 Naphthalene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

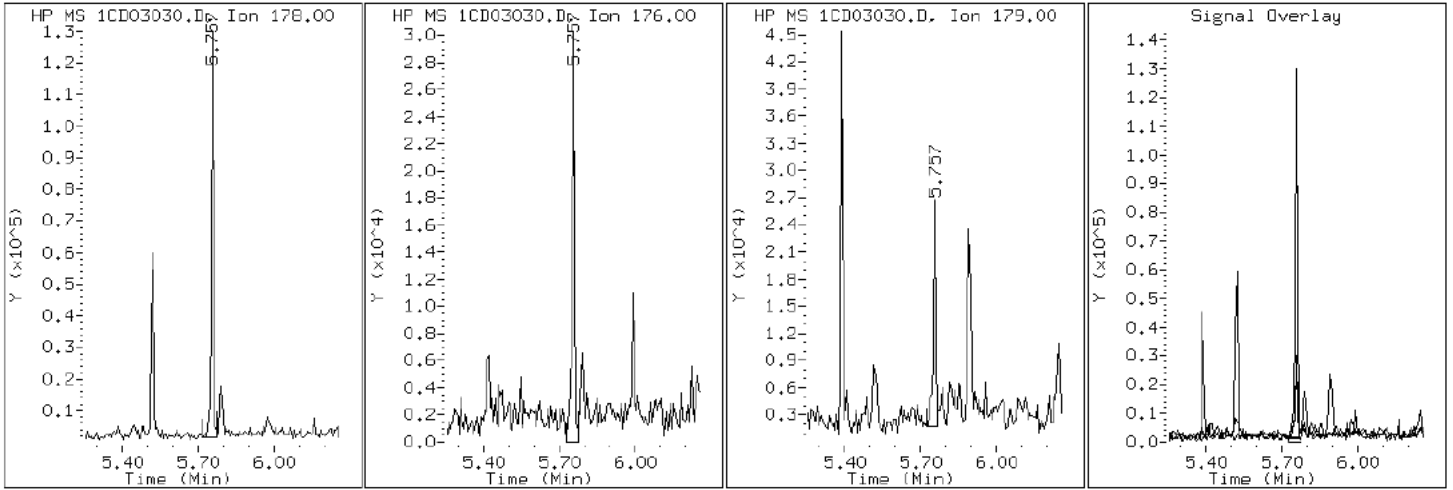
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03030.D

Date: 03-APR-2013 20:08

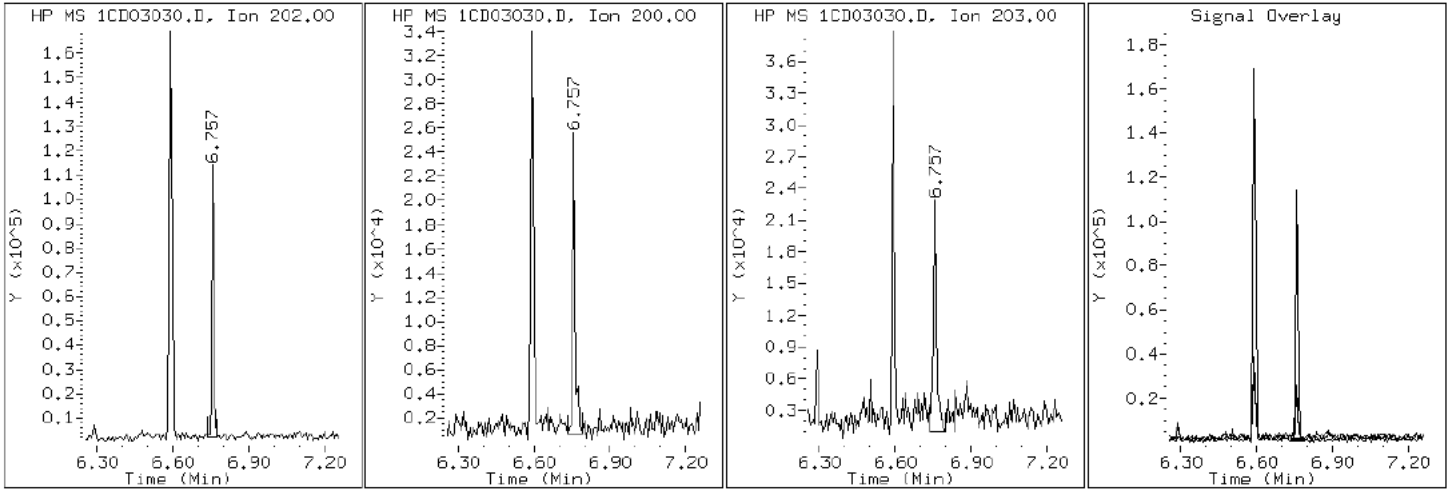
Client ID: CV0509AE-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-6-b

Operator: SCC

16 Pyrene

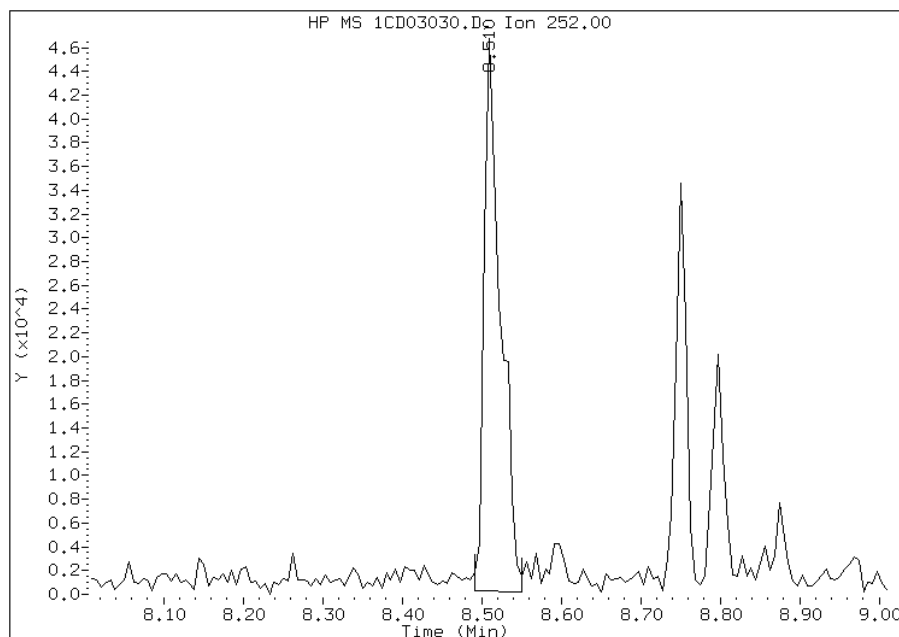


# Manual Integration Report

Data File: 1CD03030.D  
Inj. Date and Time: 03-APR-2013 20:08  
Instrument ID: BSMC5973.i  
Client ID: CV0509AE-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

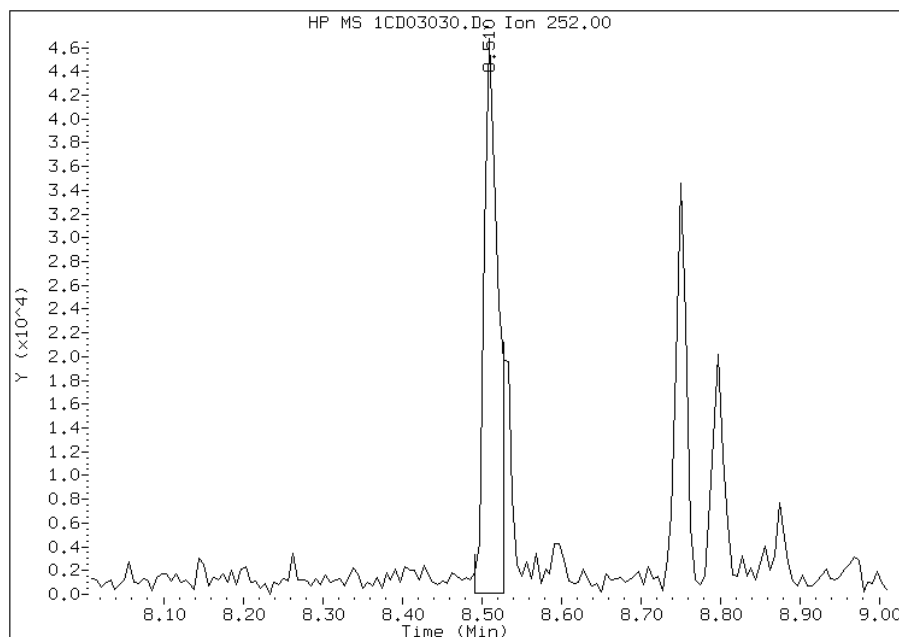
## Processing Integration Results

RT: 8.51  
Response: 67678  
Amount: 3  
Conc: 283



## Manual Integration Results

RT: 8.51  
Response: 57245  
Amount: 3  
Conc: 240



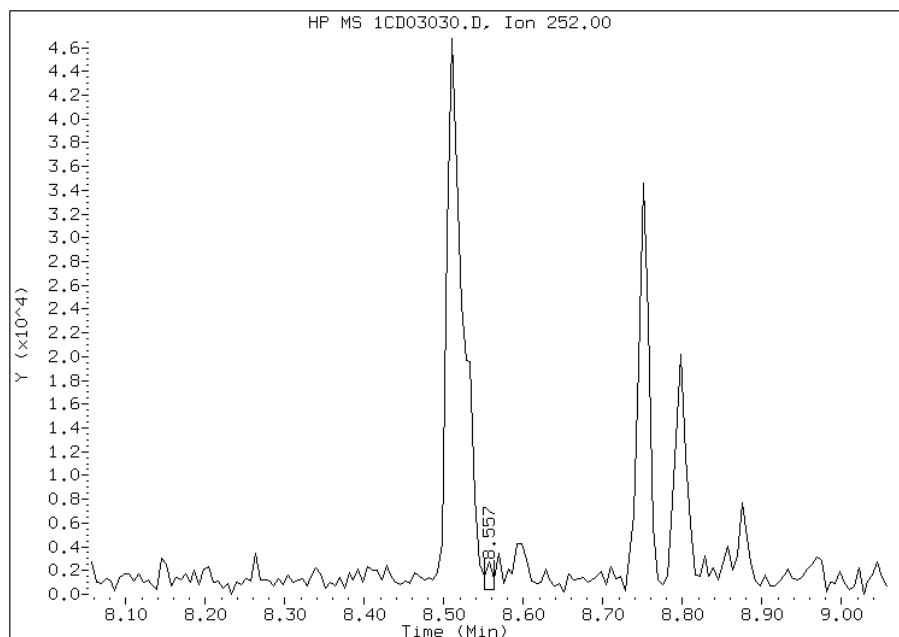
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:39  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03030.D  
Inj. Date and Time: 03-APR-2013 20:08  
Instrument ID: BSMC5973.i  
Client ID: CV0509AE-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

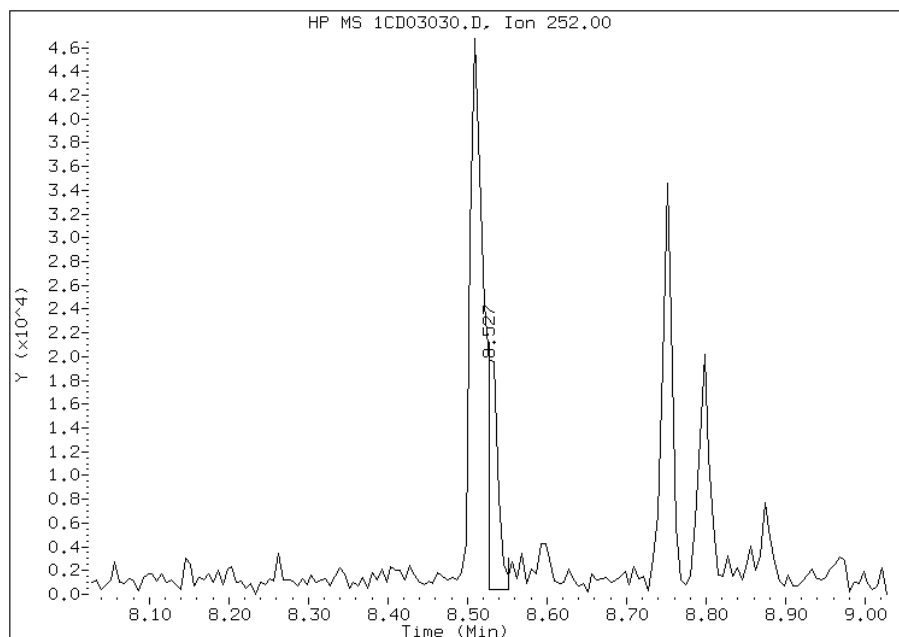
## Processing Integration Results

RT: 8.56  
Response: 1483  
Amount: 0  
Conc: 6



## Manual Integration Results

RT: 8.53  
Response: 17464  
Amount: 1  
Conc: 76



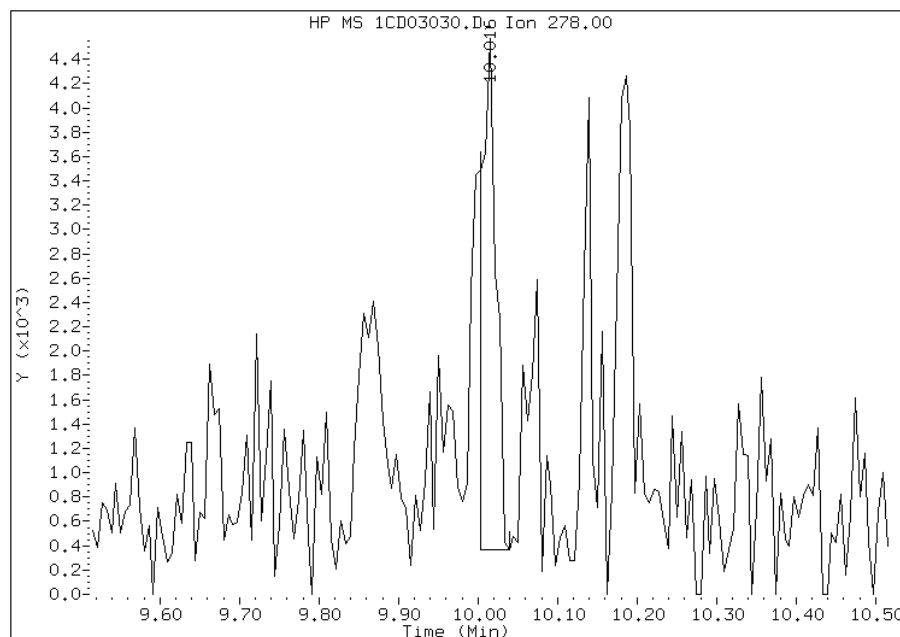
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:40  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03030.D  
Inj. Date and Time: 03-APR-2013 20:08  
Instrument ID: BSMC5973.i  
Client ID: CV0509AE-GS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/05/2013

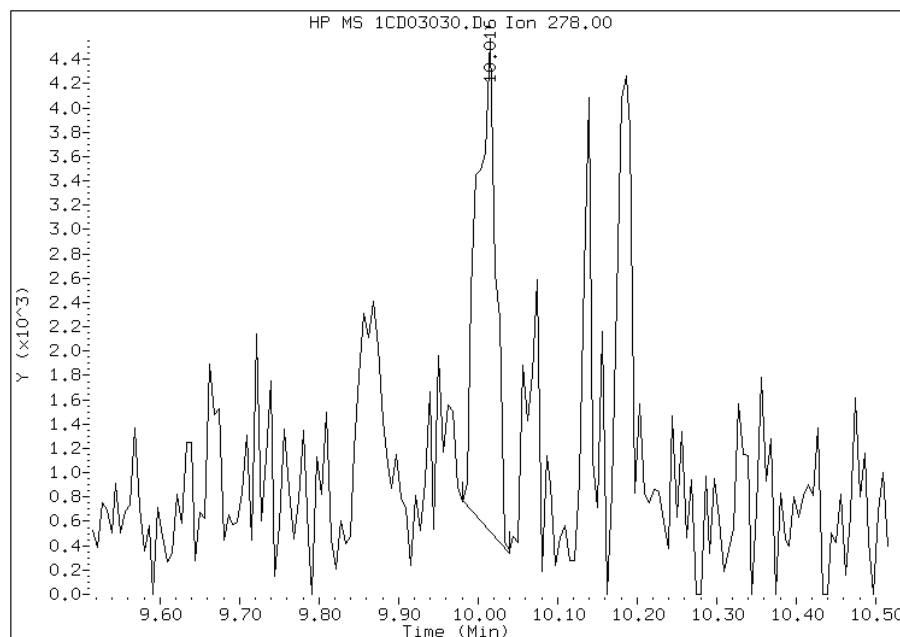
## Processing Integration Results

RT: 10.02  
Response: 5222  
Amount: 0  
Conc: 26



## Manual Integration Results

RT: 10.02  
Response: 6676  
Amount: 0  
Conc: 34



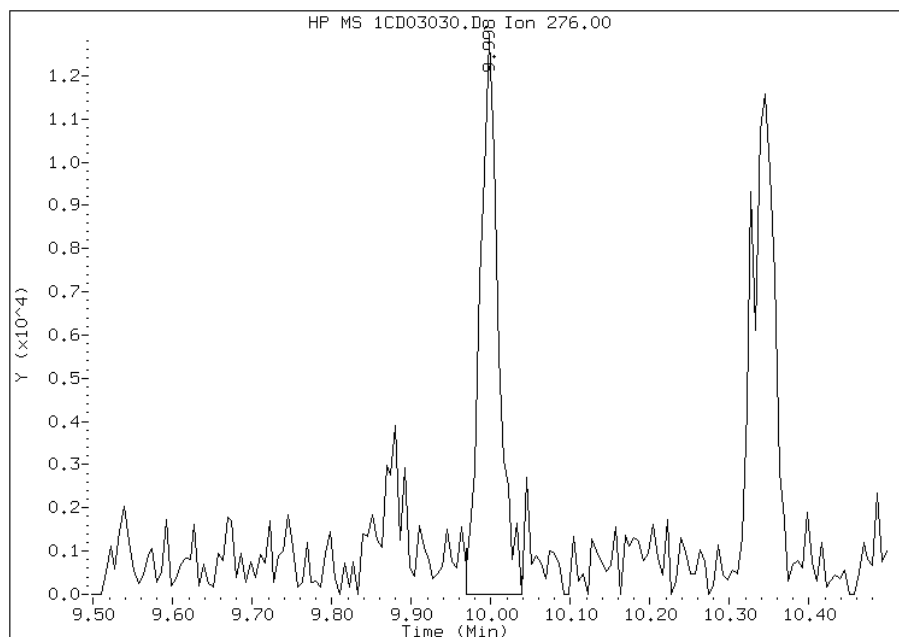
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:40  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03030.D  
Inj. Date and Time: 03-APR-2013 20:08  
Instrument ID: BSMC5973.i  
Client ID: CV0509AE-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

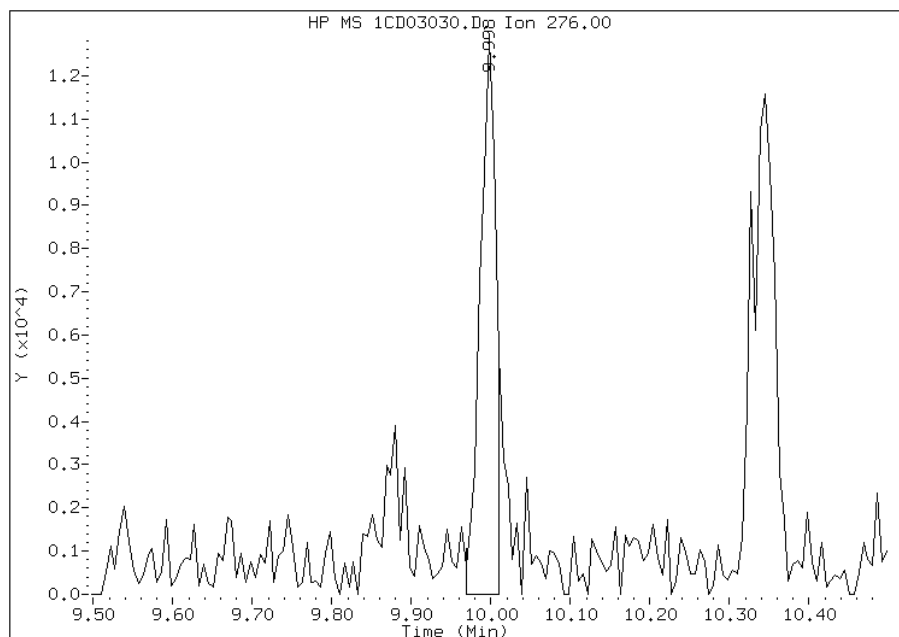
## Processing Integration Results

RT: 10.00  
Response: 20698  
Amount: 1  
Conc: 97



## Manual Integration Results

RT: 10.00  
Response: 17834  
Amount: 1  
Conc: 83



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:40  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509AF-GS Lab Sample ID: 680-88767-7  
 Matrix: Solid Lab File ID: 1CD03031.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 11:00  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 15.13(g) Date Analyzed: 04/03/2013 20:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	39	J	120	24
208-96-8	Acenaphthylene	120		48	6.1
120-12-7	Anthracene	220		10	5.1
56-55-3	Benzo[a]anthracene	740		9.7	4.7
50-32-8	Benzo[a]pyrene	700		13	6.3
205-99-2	Benzo[b]fluoranthene	1300		15	7.4
191-24-2	Benzo[g,h,i]perylene	530		24	5.3
207-08-9	Benzo[k]fluoranthene	530		9.7	4.4
218-01-9	Chrysene	780		11	5.5
53-70-3	Dibenz(a,h)anthracene	190		24	5.0
206-44-0	Fluoranthene	1200		24	4.8
86-73-7	Fluorene	52		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	510		24	8.6
90-12-0	1-Methylnaphthalene	160		48	5.3
91-57-6	2-Methylnaphthalene	190		48	8.6
91-20-3	Naphthalene	170		48	5.3
85-01-8	Phenanthrene	740		9.7	4.7
129-00-0	Pyrene	1200		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03031.D  
 Lab Smp Id: 680-88767-A-7-B Client Smp ID: CV0509AF-GS  
 Inj Date : 03-APR-2013 20:27  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-7-b  
 Misc Info : 680-88767-A-7-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins 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	15.130	Weight Extracted
M	18.198	% 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		3.710	3.704	(1.000)	604853	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	425571	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	766465	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	82568	7.32525	591.8576
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	847750	40.0000	
* 23 Perylene-d12	264		8.856	8.851	(1.000)	774361	40.0000	
2 Naphthalene	128		3.721	3.722	(1.003)	31946	2.05632	166.1443
3 2-Methylnaphthalene	142		4.151	4.145	(1.119)	24773	2.34254	189.2699
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	18605	1.95519	157.9735
5 Acenaphthylene	152		4.710	4.704	(0.983)	26313	1.49392	120.7044
7 Acenaphthene	154		4.816	4.816	(1.005)	5238	0.48015	38.7944
9 Fluorene	166		5.133	5.133	(1.071)	9294	0.63907	51.6350
11 Phenanthrene	178		5.757	5.757	(1.003)	205570	9.20888	744.0491
12 Anthracene	178		5.792	5.792	(1.009)	62314	2.75372	222.4924

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	38797	2.00116	161.6873
15 Fluoranthene	202	6.592	6.592	(1.149)	378771	15.3641	1241.3730
16 Pyrene	202	6.762	6.757	(0.881)	334382	14.2391	1150.4774
17 Benzo(a)anthracene	228	7.674	7.668	(0.999)	220669	9.11925	736.8071
19 Chrysene	228	7.698	7.698	(1.002)	232322	9.61710	777.0324
20 Benzo(b)fluoranthene	252	8.515	8.509	(0.961)	343268	15.6802	1266.9103(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	137598	6.49864	525.0701(M)
22 Benzo(a)pyrene	252	8.804	8.798	(0.994)	177907	8.63180	697.4225
24 Indeno(1,2,3-cd)pyrene	276	10.003	9.992	(1.129)	122800	6.27292	506.8324(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009	(1.131)	42607	2.35609	190.3644
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.168)	131818	6.59754	533.0610

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03031.D

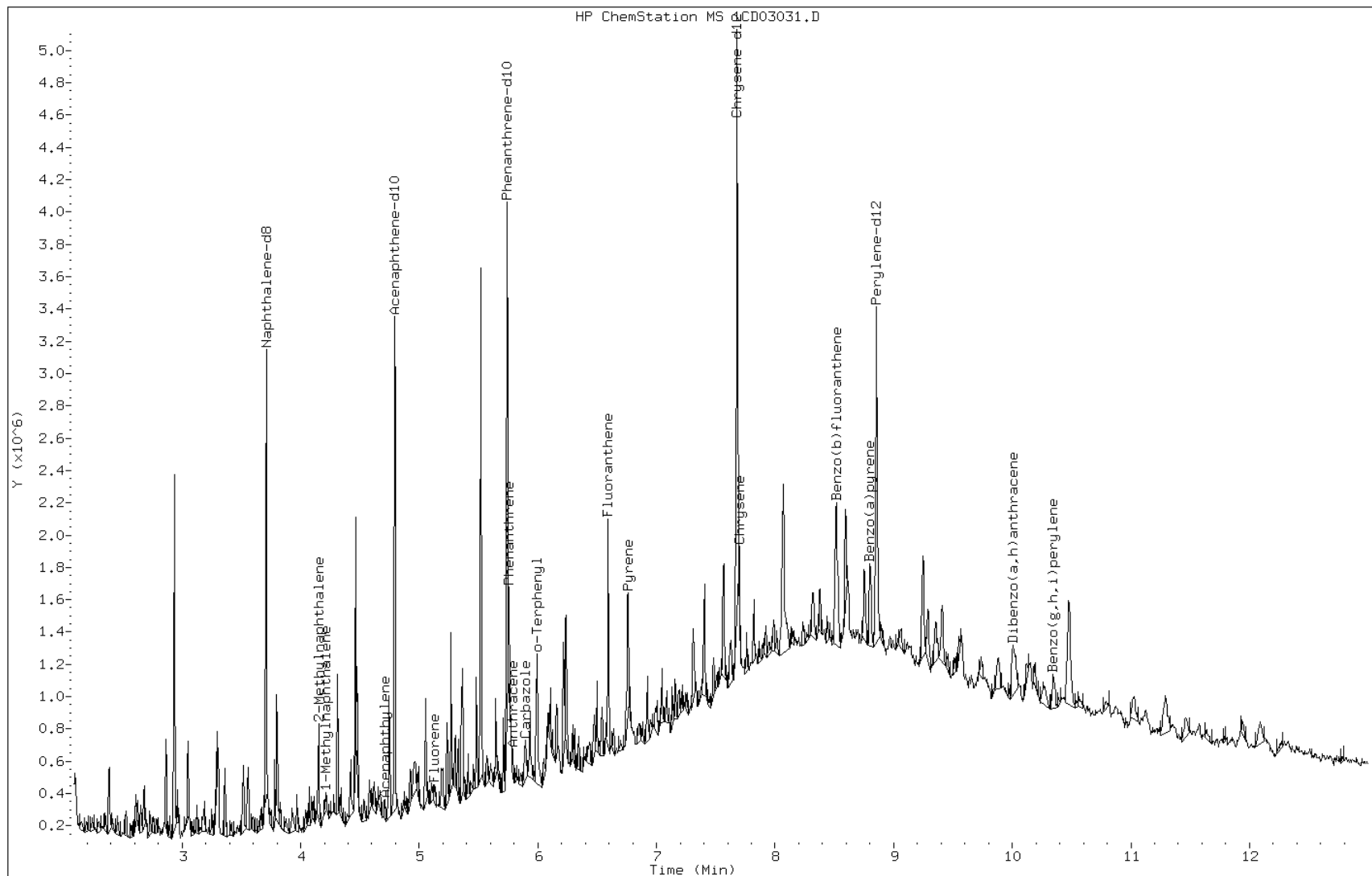
Date: 03-APR-2013 20:27

Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

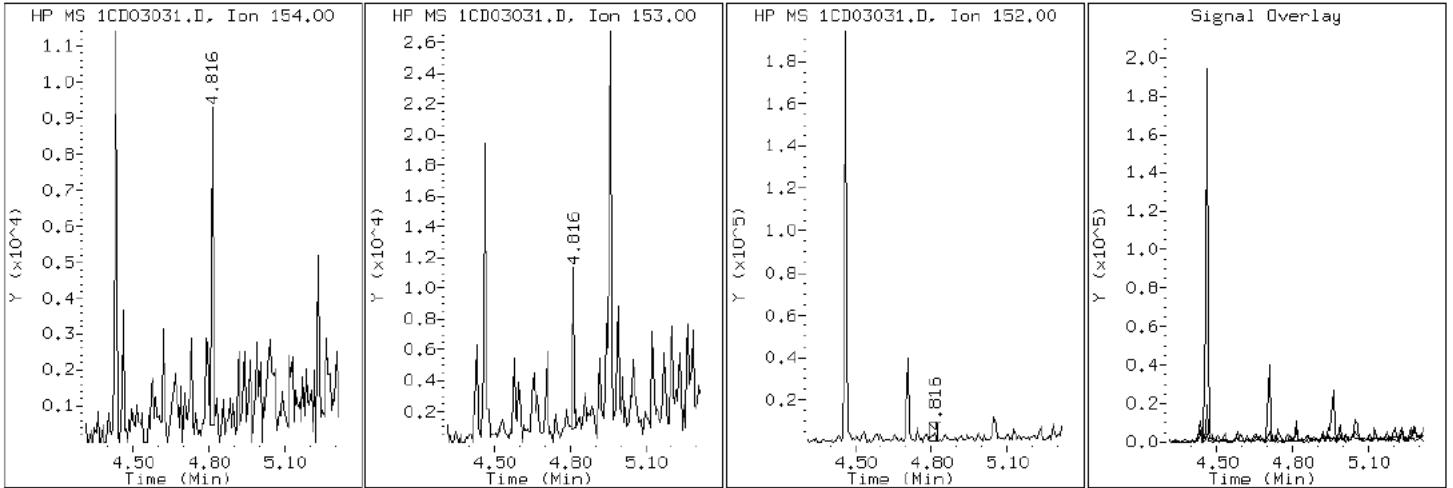
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

7 Acenaphthene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

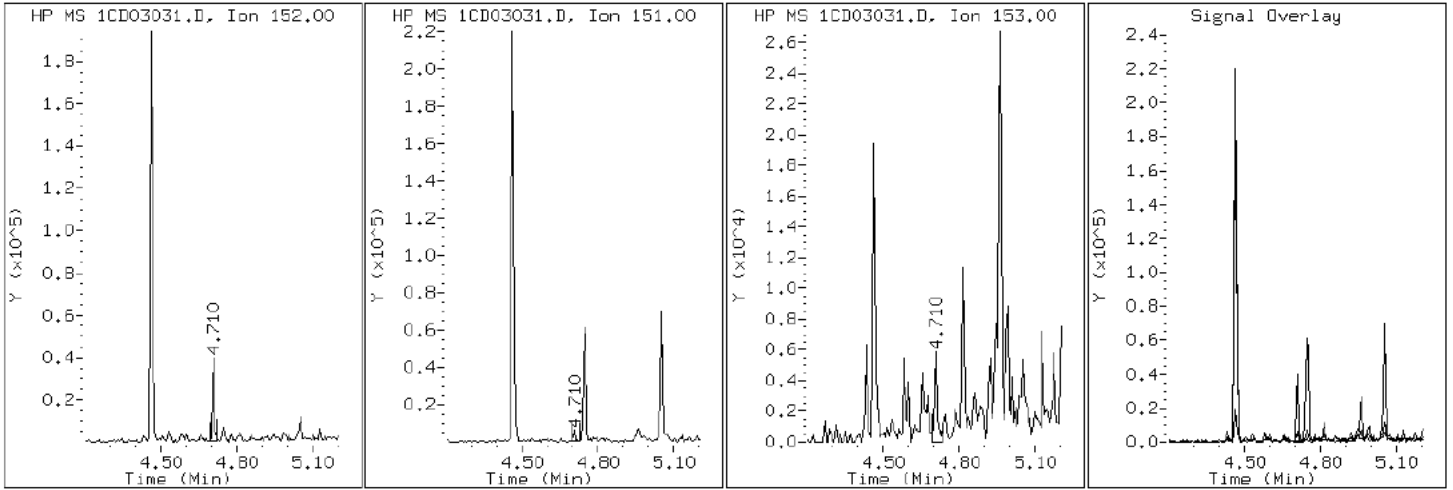
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

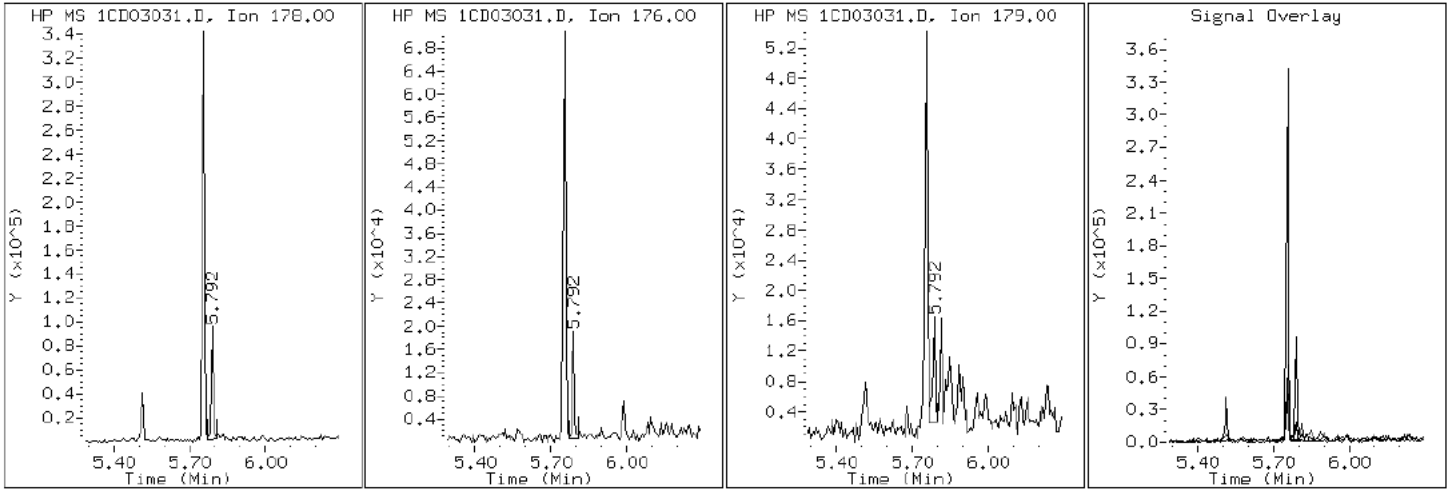
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

12 Anthracene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

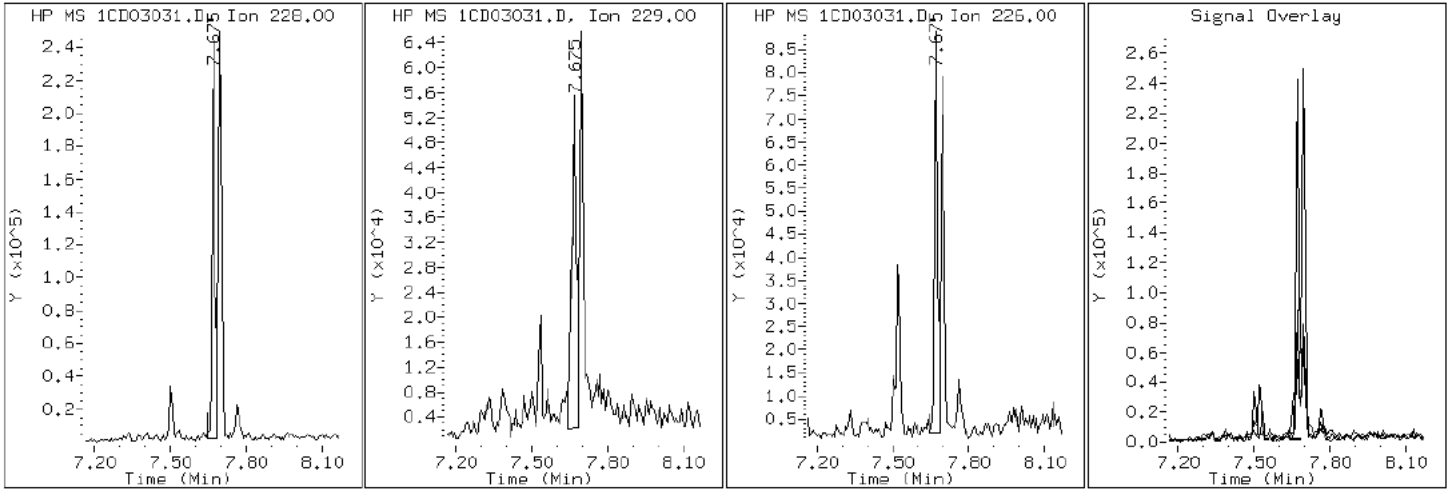
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD03031.D

Date: 03-APR-2013 20:27

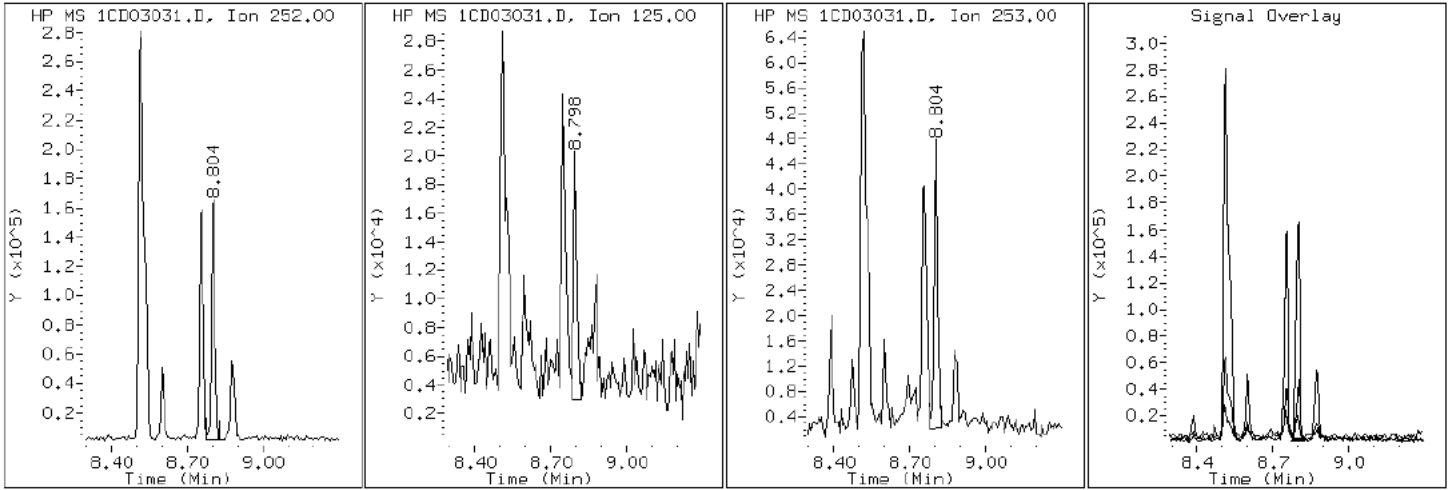
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

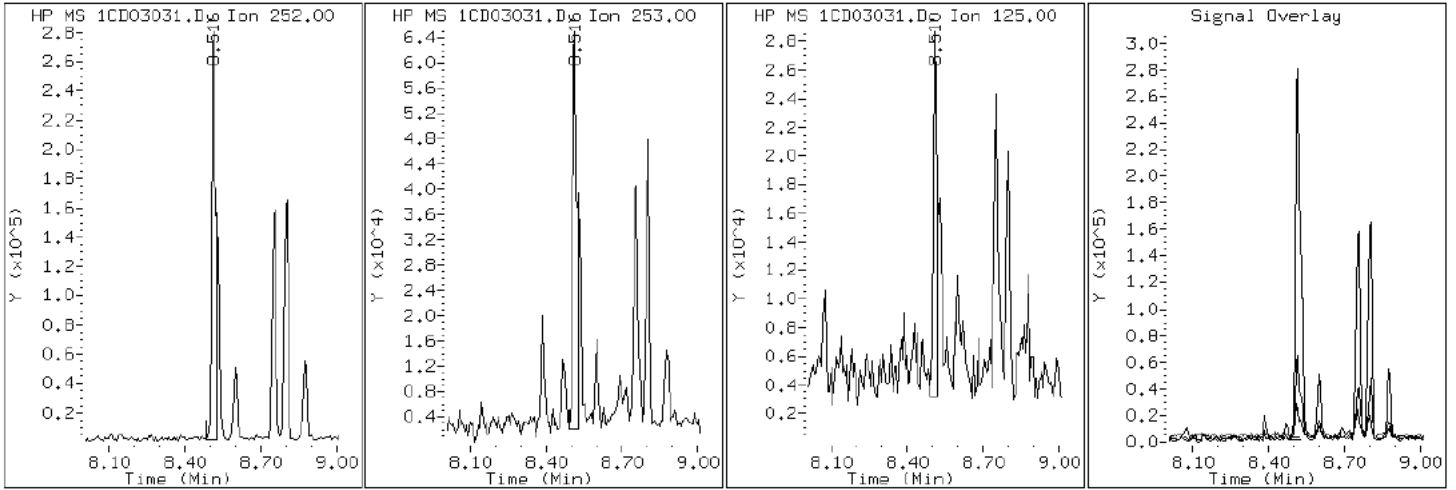
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

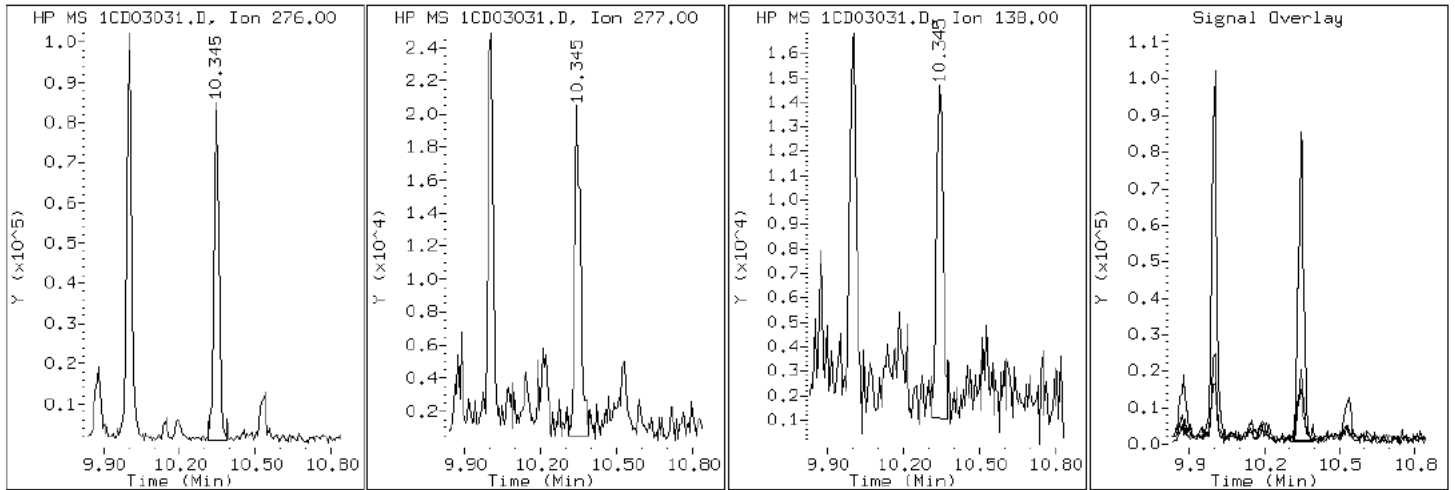
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

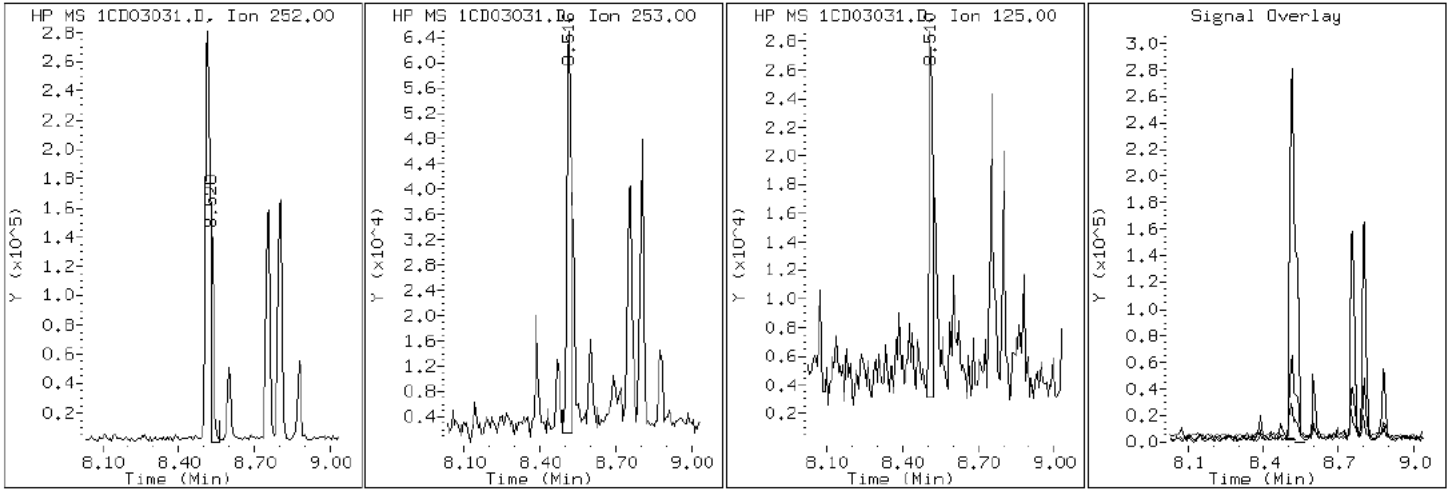
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

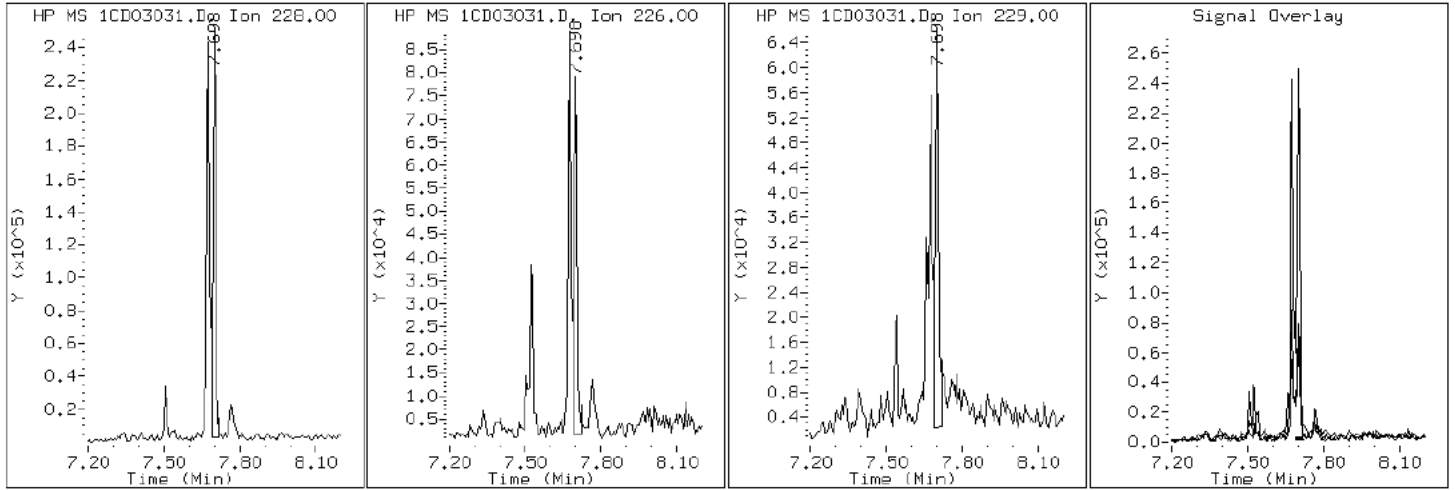
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

19 Chrysene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

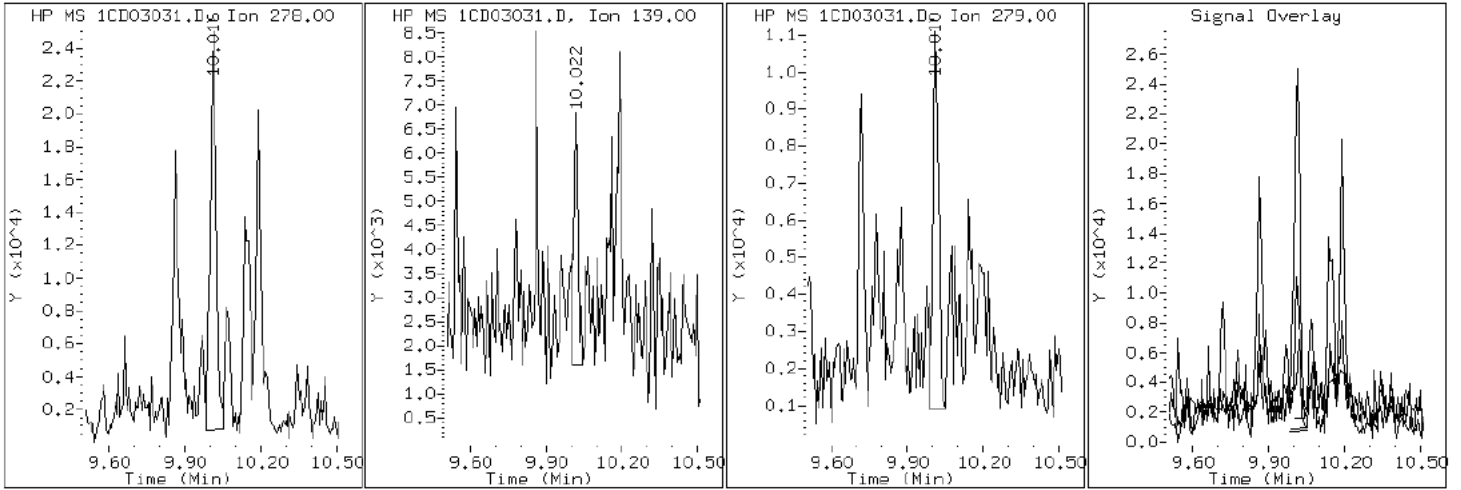
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

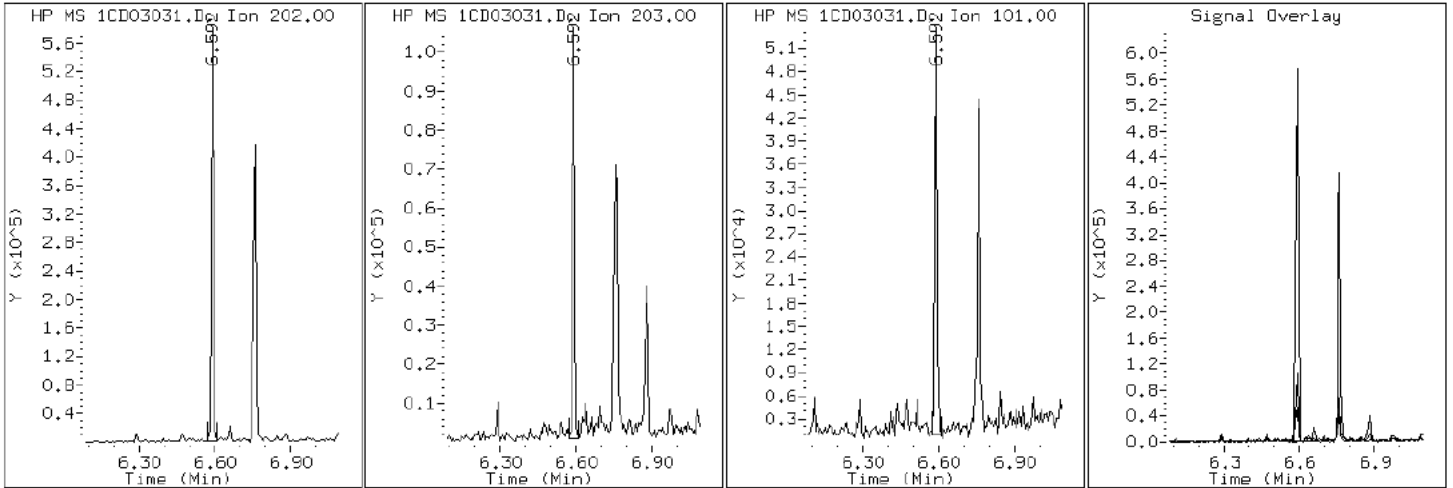
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

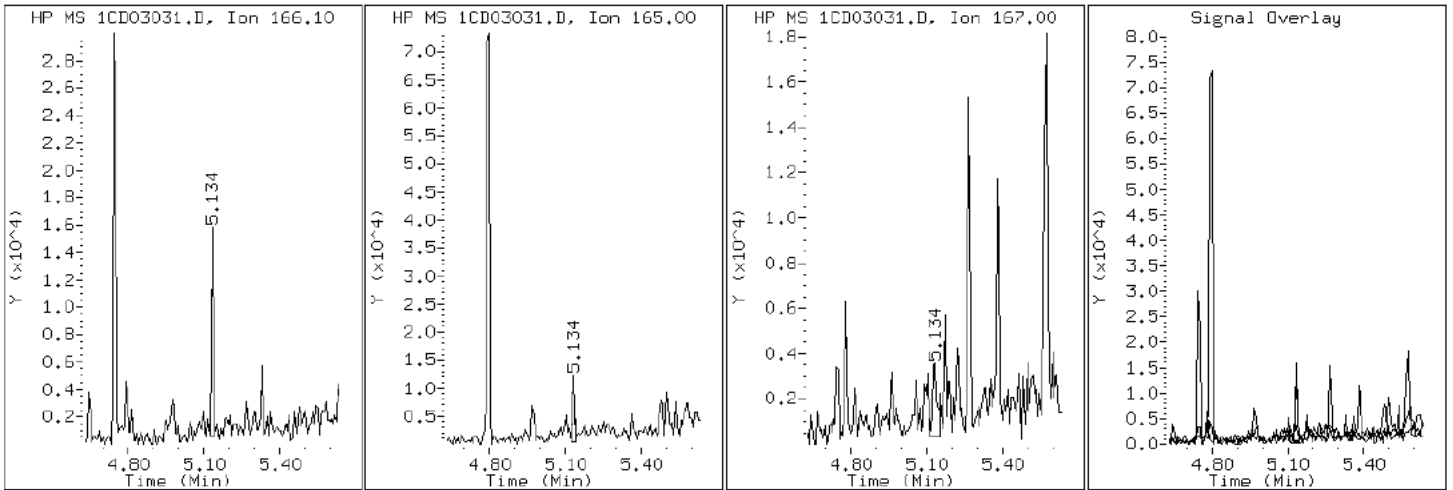
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

9 Fluorene





Data File: 1CD03031.D

Date: 03-APR-2013 20:27

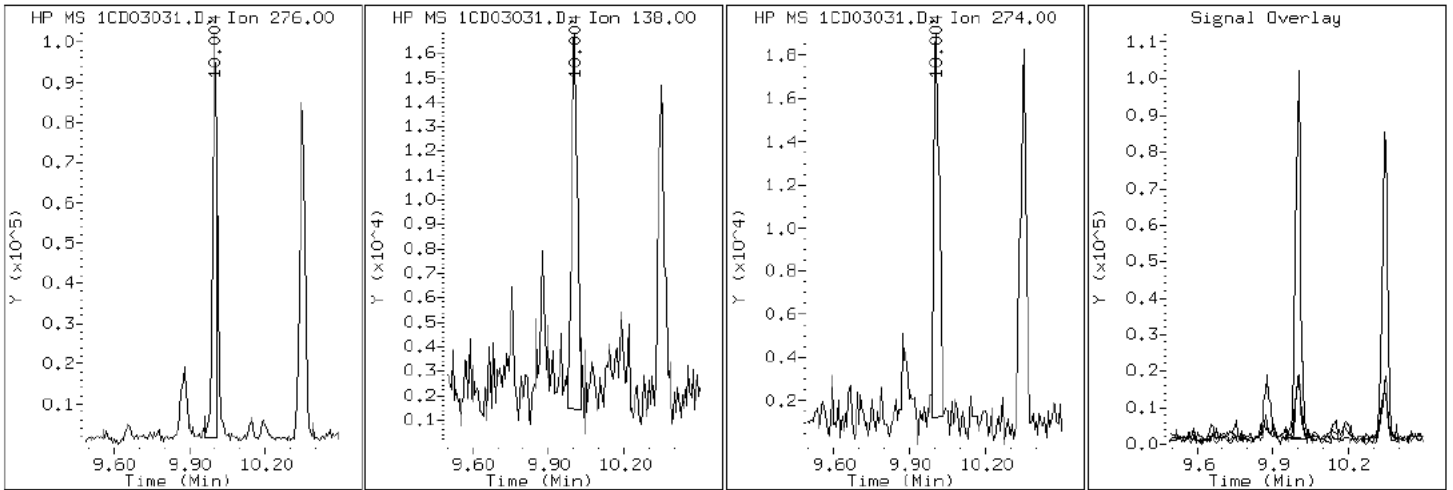
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

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



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

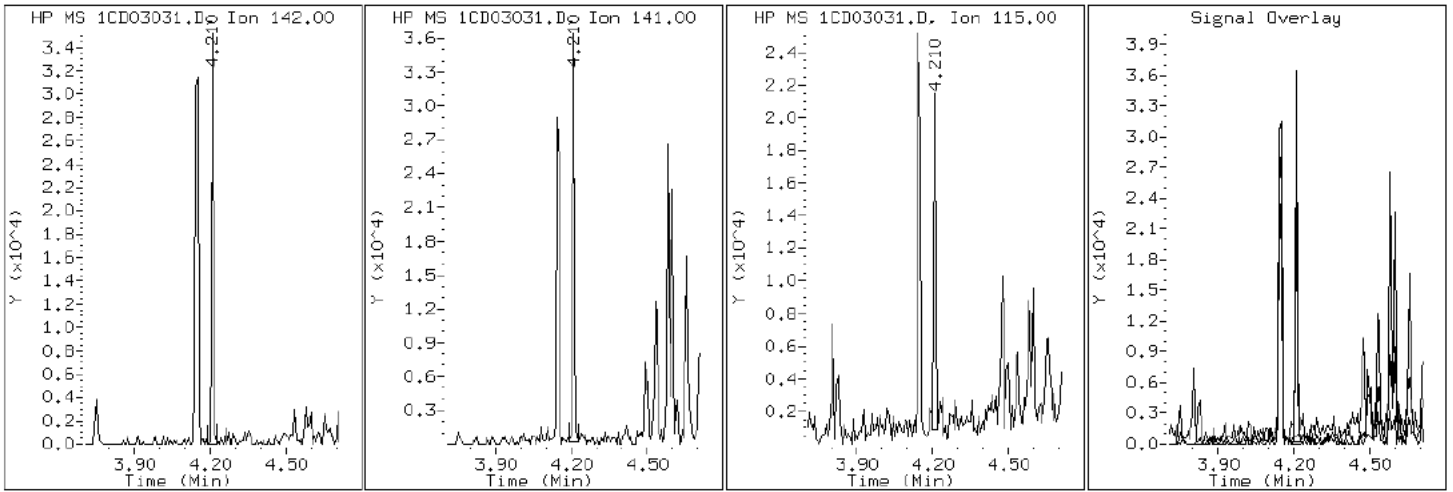
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

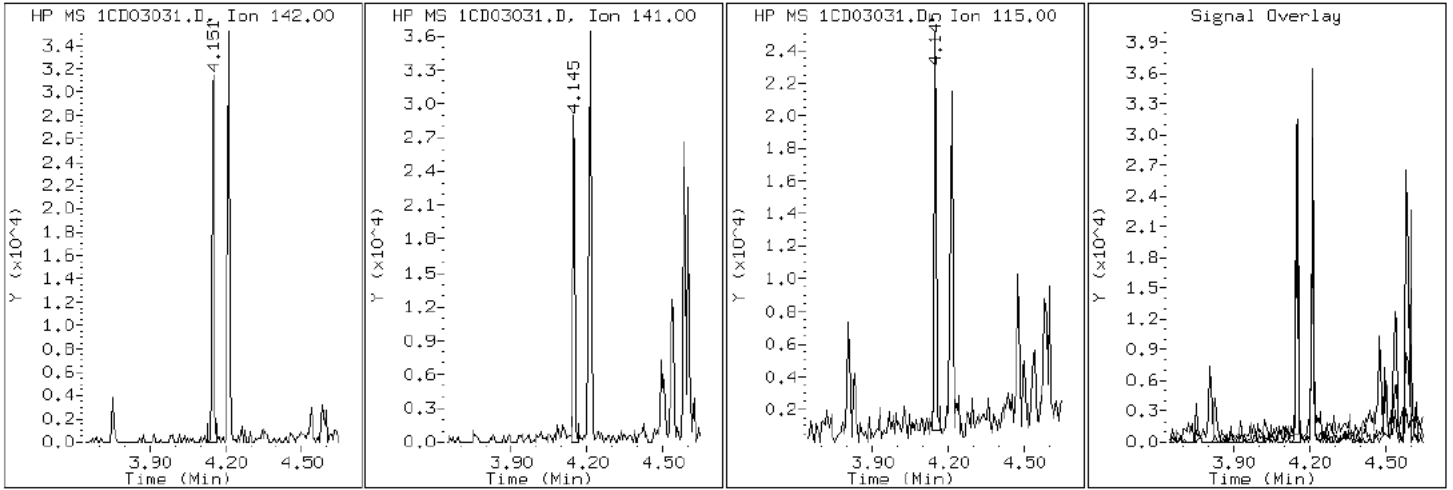
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

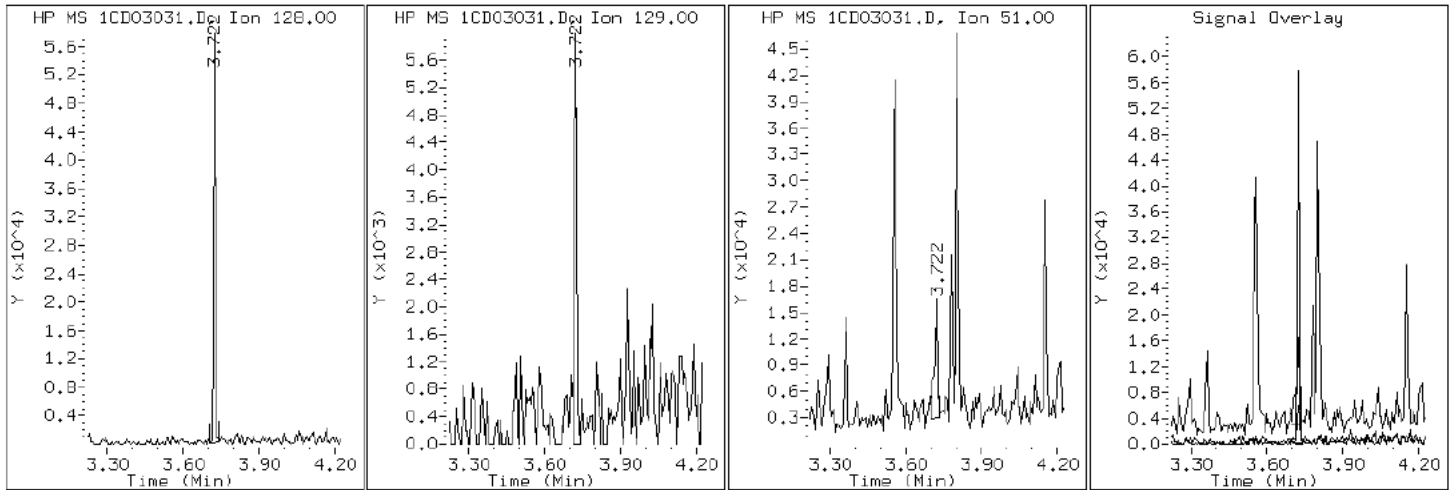
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

2 Naphthalene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

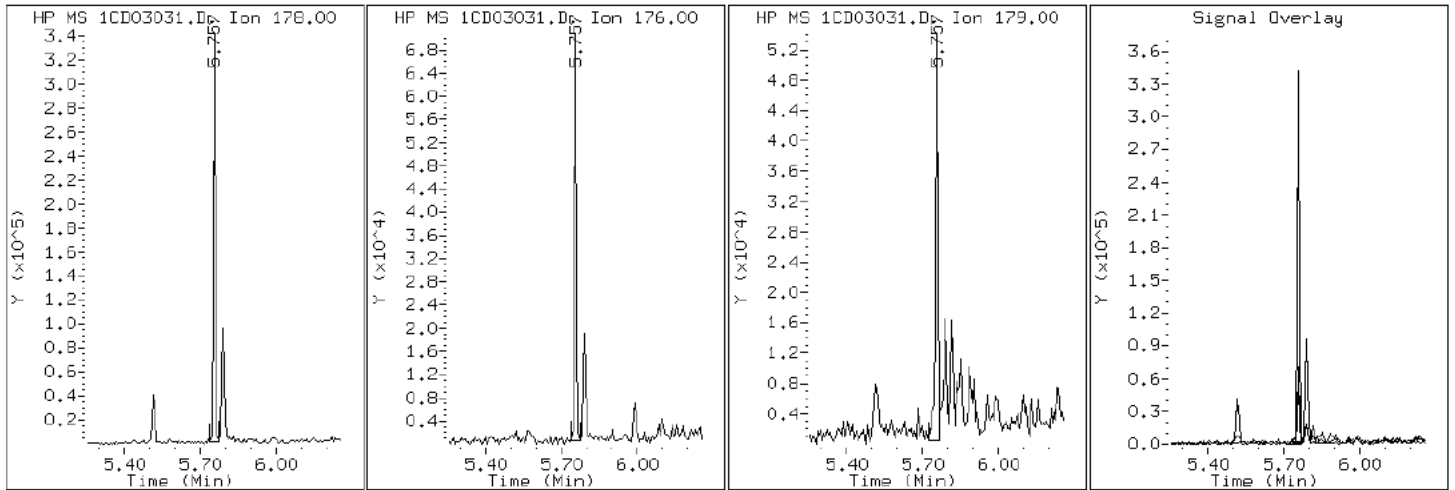
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03031.D

Date: 03-APR-2013 20:27

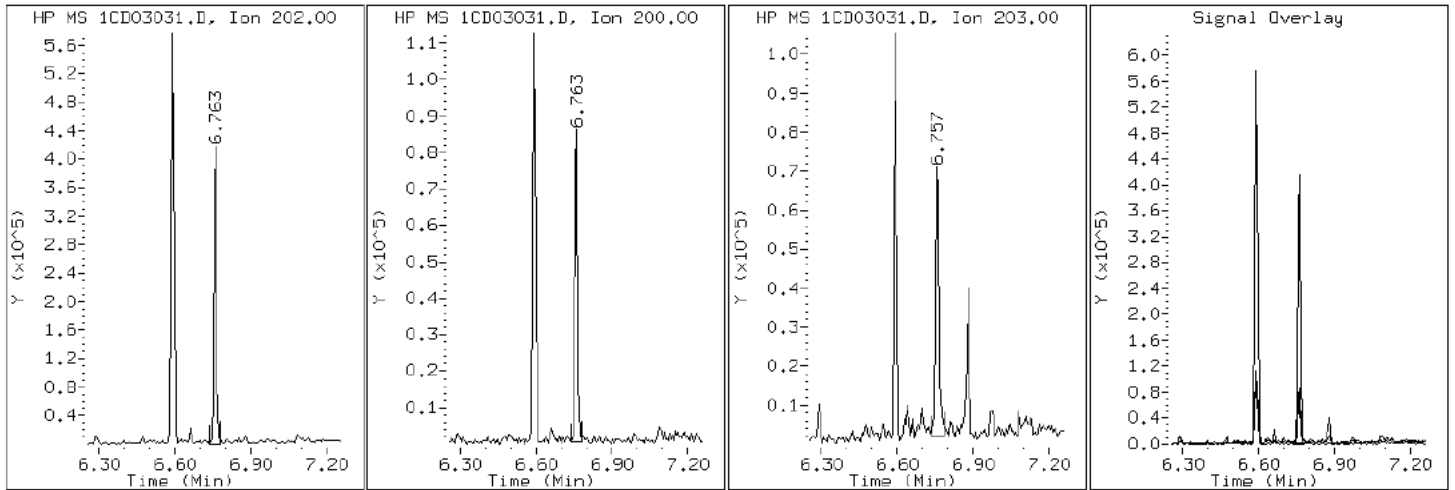
Client ID: CV0509AF-GS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-7-b

Operator: SCC

16 Pyrene

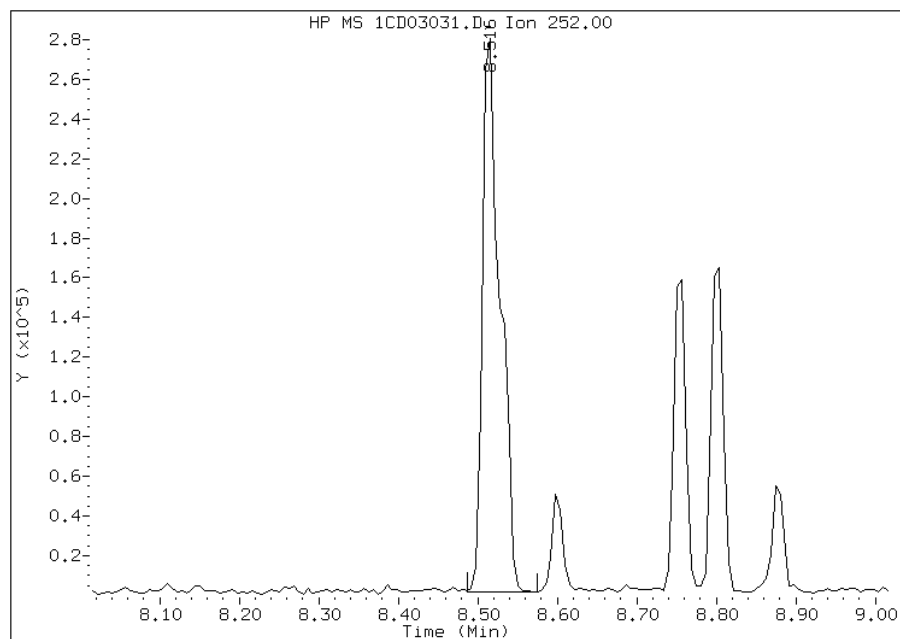


# Manual Integration Report

Data File: 1CD03031.D  
Inj. Date and Time: 03-APR-2013 20:27  
Instrument ID: BSMC5973.i  
Client ID: CV0509AF-GS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

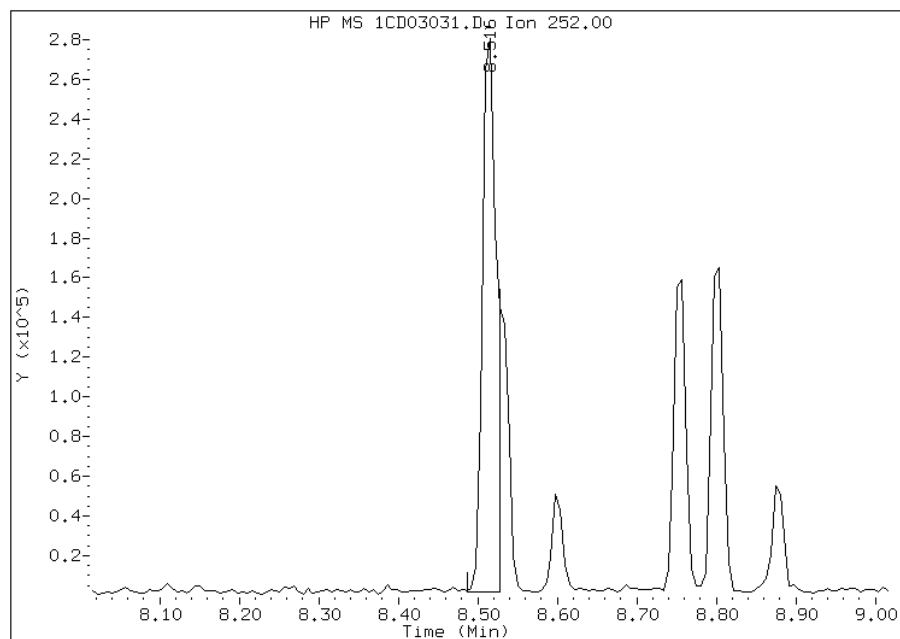
## Processing Integration Results

RT: 8.52  
Response: 426582  
Amount: 19  
Conc: 1574



## Manual Integration Results

RT: 8.52  
Response: 343268  
Amount: 16  
Conc: 1267



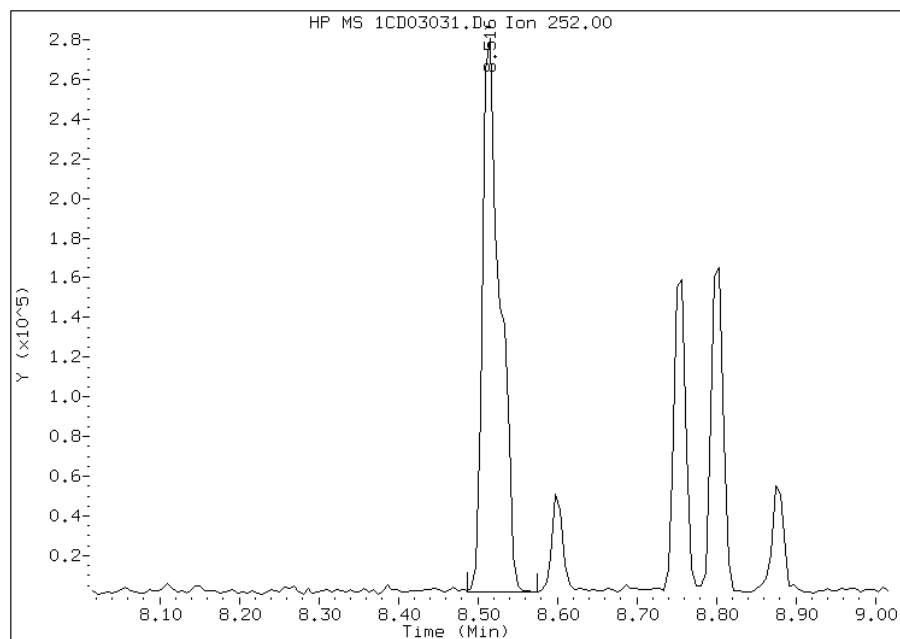
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:41  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03031.D  
Inj. Date and Time: 03-APR-2013 20:27  
Instrument ID: BSMC5973.i  
Client ID: CV0509AF-GS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

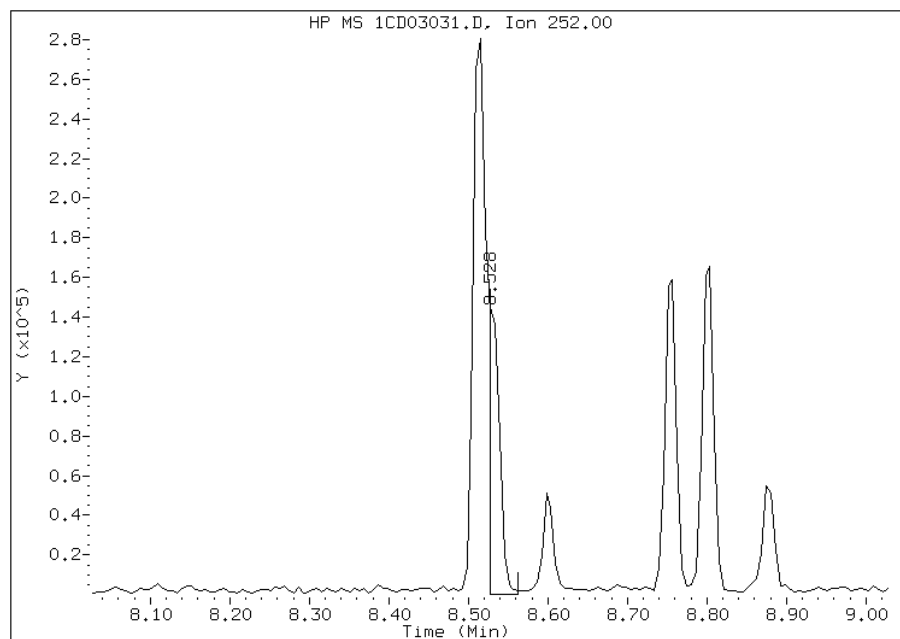
## Processing Integration Results

RT: 8.52  
Response: 426573  
Amount: 20  
Conc: 1628



## Manual Integration Results

RT: 8.53  
Response: 137598  
Amount: 6  
Conc: 525



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:41  
Manual Integration Reason: Baseline Event

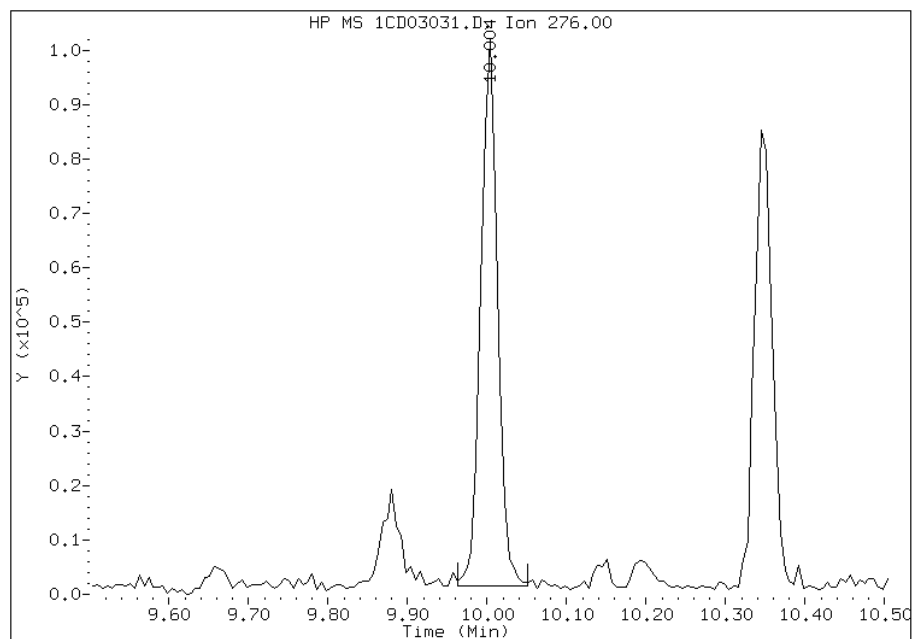


# Manual Integration Report

Data File: 1CD03031.D  
Inj. Date and Time: 03-APR-2013 20:27  
Instrument ID: BSMC5973.i  
Client ID: CV0509AF-GS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

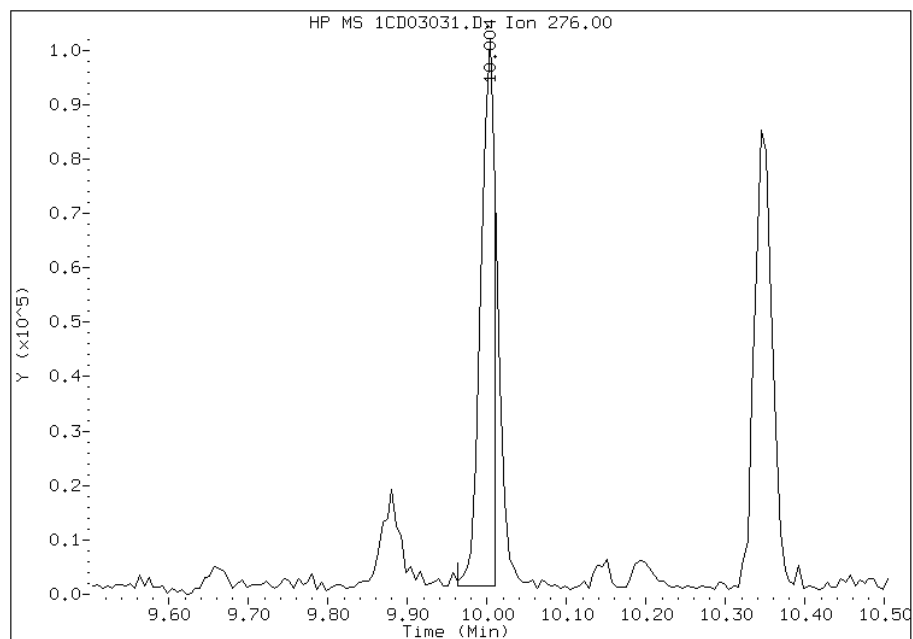
## Processing Integration Results

RT: 10.00  
Response: 145501  
Amount: 7  
Conc: 601



## Manual Integration Results

RT: 10.00  
Response: 122800  
Amount: 6  
Conc: 507



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:41  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509A-CS Lab Sample ID: 680-88767-8  
 Matrix: Solid Lab File ID: 1CD03032.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 08:58  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.88(g) Date Analyzed: 04/03/2013 20:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	32	J	49	6.1
120-12-7	Anthracene	83		10	5.1
56-55-3	Benzo[a]anthracene	430		9.8	4.8
50-32-8	Benzo[a]pyrene	410		13	6.4
205-99-2	Benzo[b]fluoranthene	700		15	7.5
191-24-2	Benzo[g,h,i]perylene	340		25	5.4
207-08-9	Benzo[k]fluoranthene	210		9.8	4.4
218-01-9	Chrysene	450		11	5.5
53-70-3	Dibenz(a,h)anthracene	99		25	5.0
206-44-0	Fluoranthene	730		25	4.9
86-73-7	Fluorene	40		25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	230		25	8.7
90-12-0	1-Methylnaphthalene	95		49	5.4
91-57-6	2-Methylnaphthalene	110		49	8.7
91-20-3	Naphthalene	79		49	5.4
85-01-8	Phenanthrene	450		9.8	4.8
129-00-0	Pyrene	630		25	4.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03032.D  
 Lab Smp Id: 680-88767-A-8-B Client Smp ID: CV0509A-CS  
 Inj Date : 03-APR-2013 20:45  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-8-b  
 Misc Info : 680-88767-A-8-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.880	Weight Extracted
M	17.722	% 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		3.710	3.704	(1.000)	603224	40.0000		
* 6 Acenaphthene-d10	164		4.798	4.792	(1.000)	433497	40.0000		
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	796210	40.0000		
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	88631	7.54522	616.2862	
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	861515	40.0000		
* 23 Perylene-d12	264		8.856	8.851	(1.000)	792552	40.0000		
2 Naphthalene	128		3.721	3.722	(1.003)	15049	0.97130	79.3348	
3 2-Methylnaphthalene	142		4.151	4.145	(1.119)	13668	1.29594	105.8510	
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	11072	1.16669	95.2945	
5 Acenaphthylene	152		4.710	4.704	(0.982)	7099	0.39568	32.3185	
9 Fluorene	166		5.133	5.133	(1.070)	7169	0.48394	39.5277(Q)	
11 Phenanthrene	178		5.757	5.757	(1.003)	128085	5.52344	451.1498	
12 Anthracene	178		5.792	5.792	(1.009)	24018	1.02173	83.4539	
13 Carbazole	167		5.898	5.898	(1.028)	17432	0.86556	70.6977(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.592	6.592	(1.149)	229794	8.97293	732.9003
16 Pyrene	202	6.757	6.757	(0.880)	185377	7.76786	634.4712
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	128813	5.29592	432.5661
19 Chrysene	228	7.698	7.698	(1.002)	134500	5.47875	447.4989
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	190949	8.52218	696.0839(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	56331	2.59940	212.3167(QMH)
22 Benzo(a)pyrene	252	8.798	8.798	(0.993)	105214	4.98767	407.3879
24 Indeno(1,2,3-cd)pyrene	276	9.997	9.992	(1.129)	55426	2.76631	225.9494(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.009	(1.131)	22511	1.21624	99.3416(M)
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.168)	84001	4.10778	335.5199

QC Flag Legend

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

Data File: 1CD03032.D

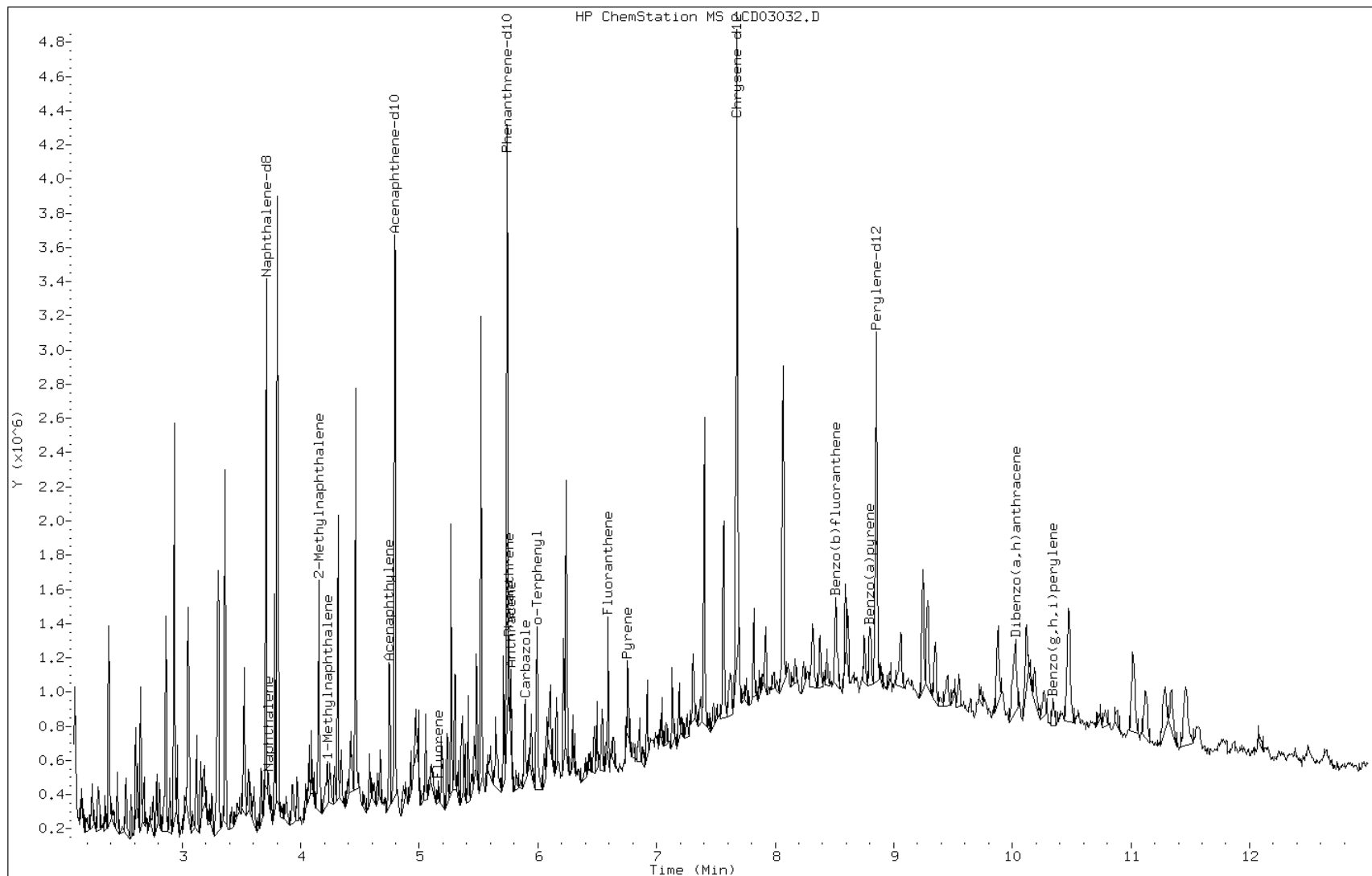
Date: 03-APR-2013 20:45

Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

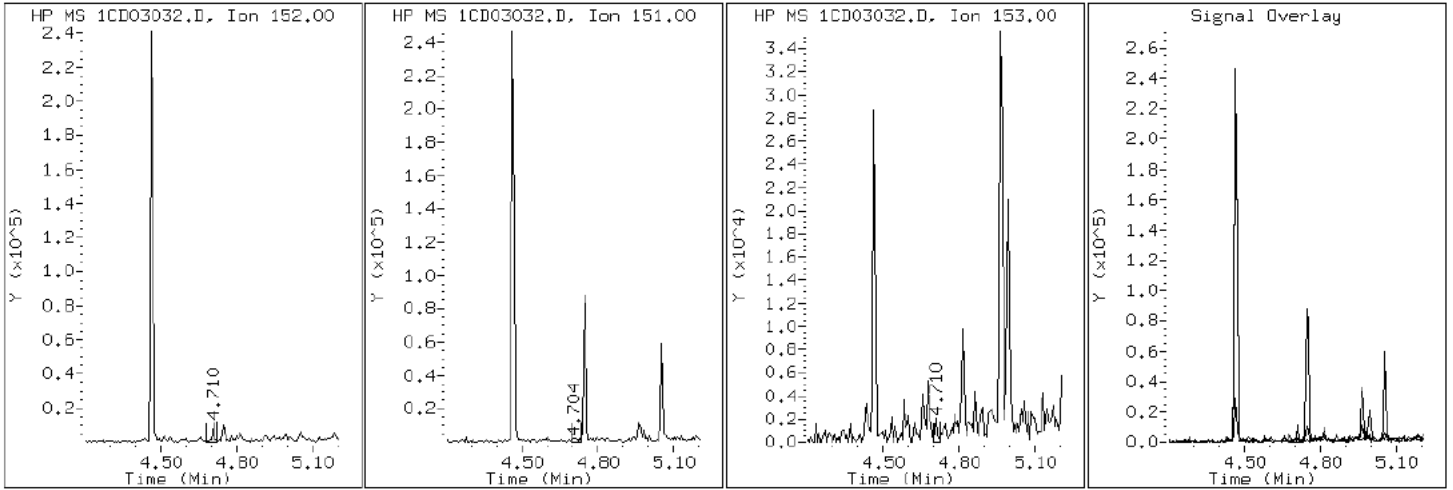
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

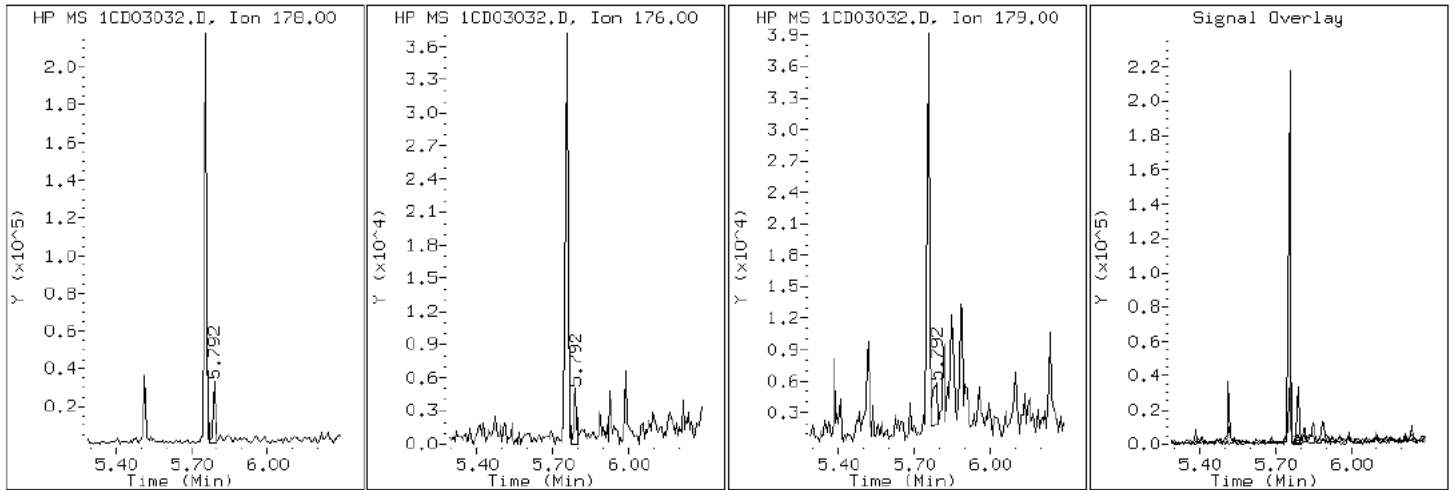
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

12 Anthracene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

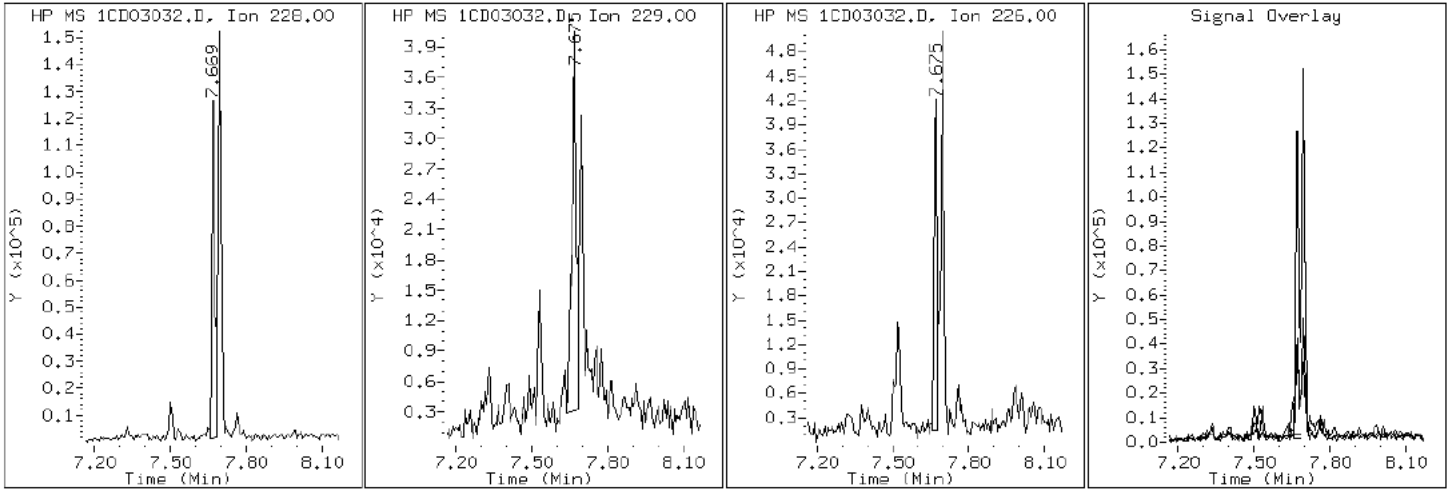
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD03032.D

Date: 03-APR-2013 20:45

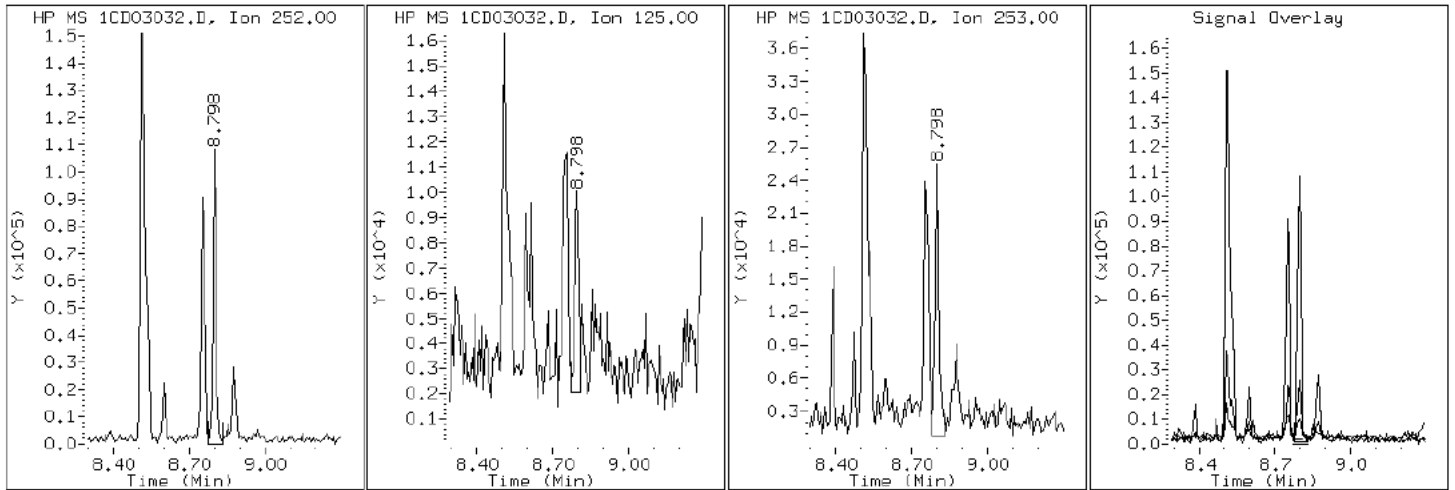
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

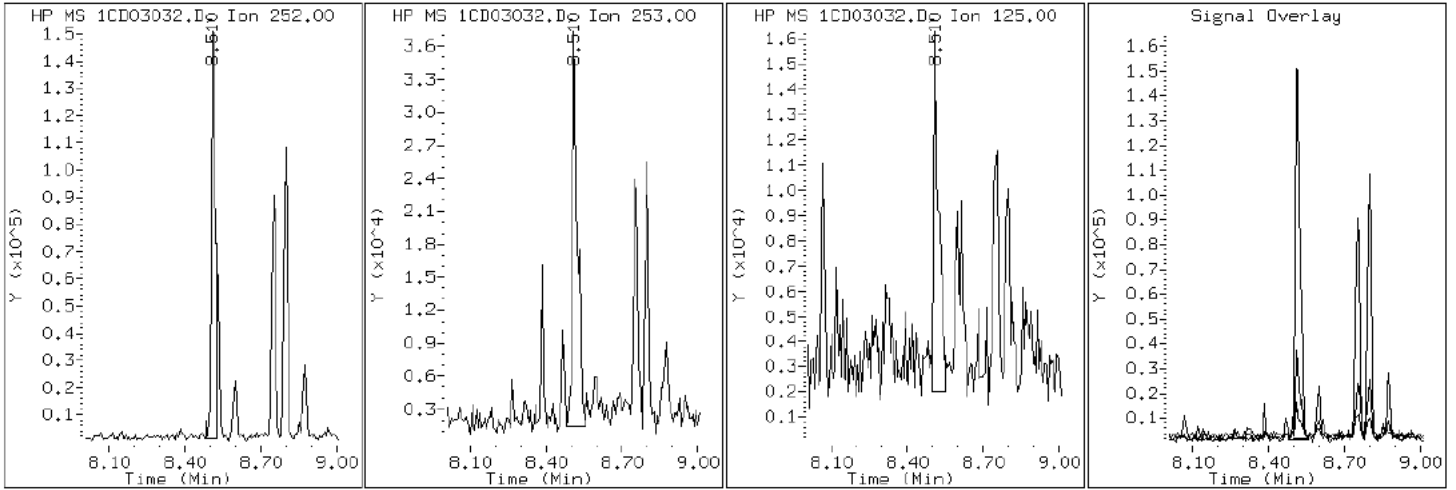
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

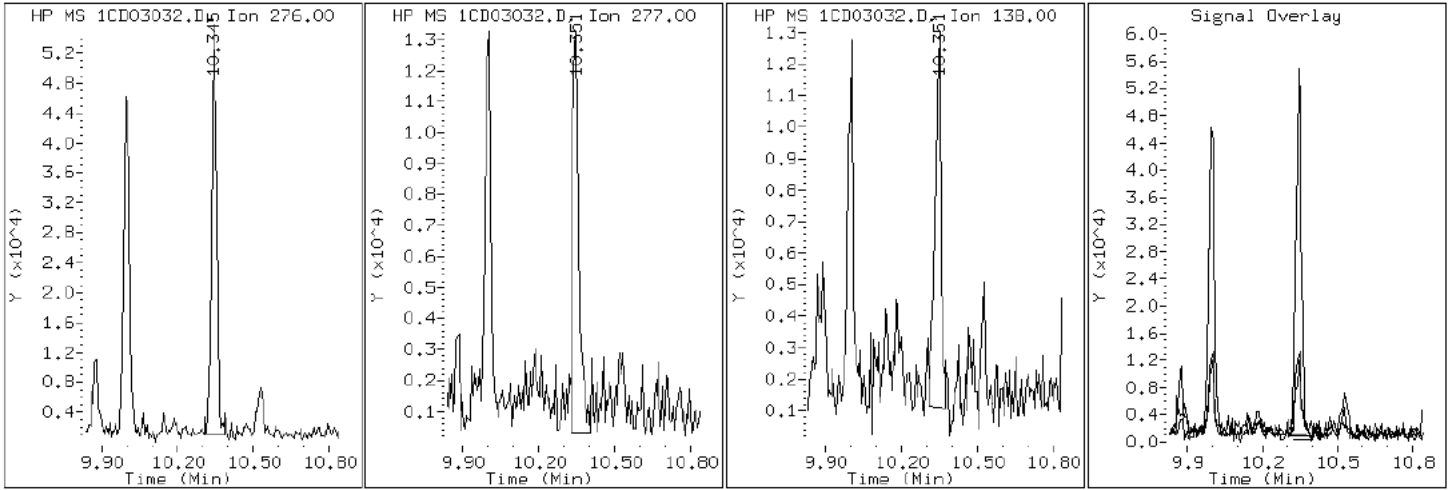
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

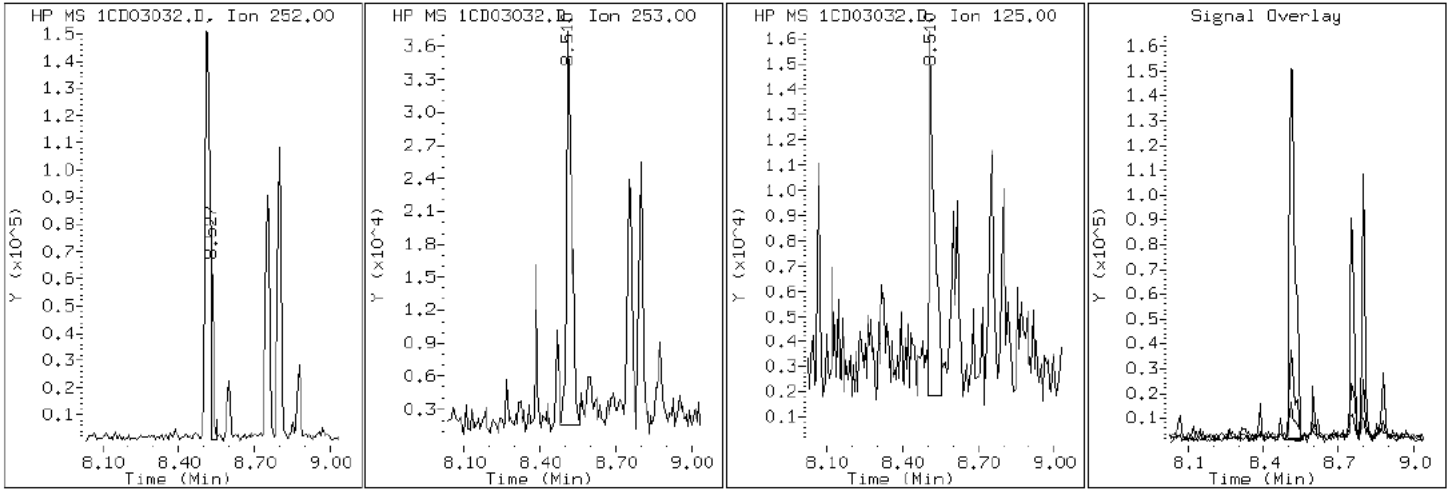
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

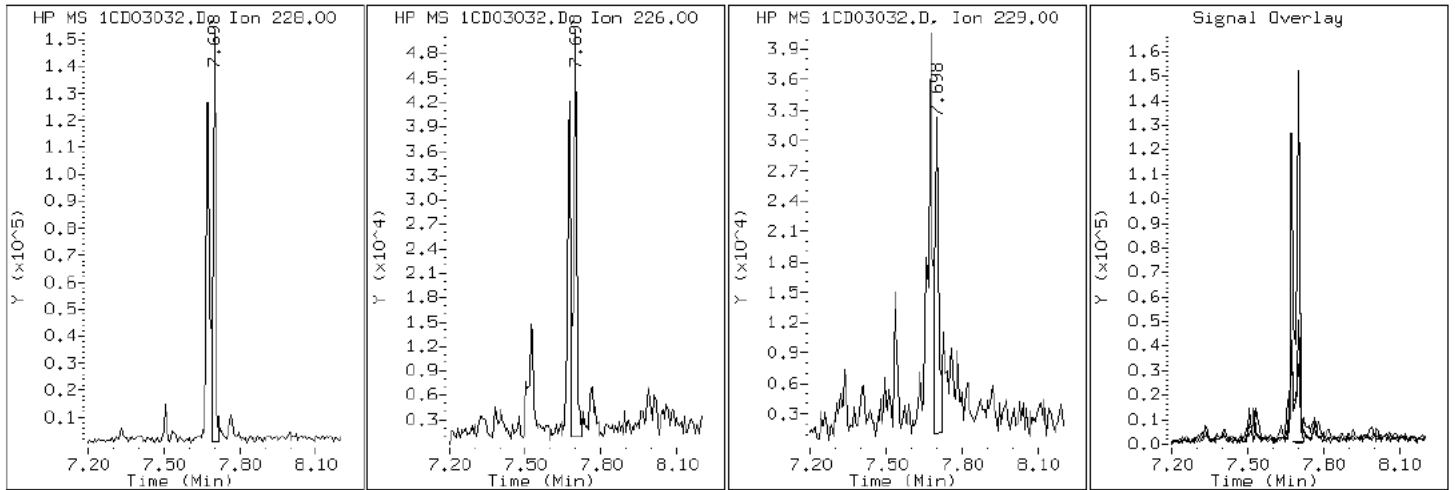
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

19 Chrysene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

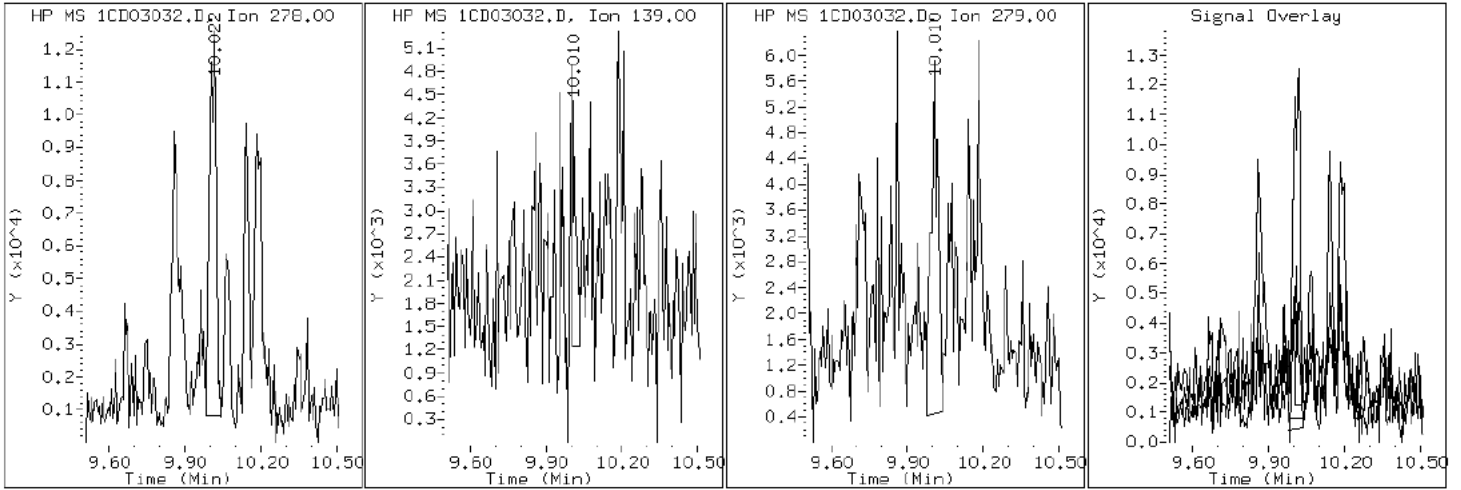
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

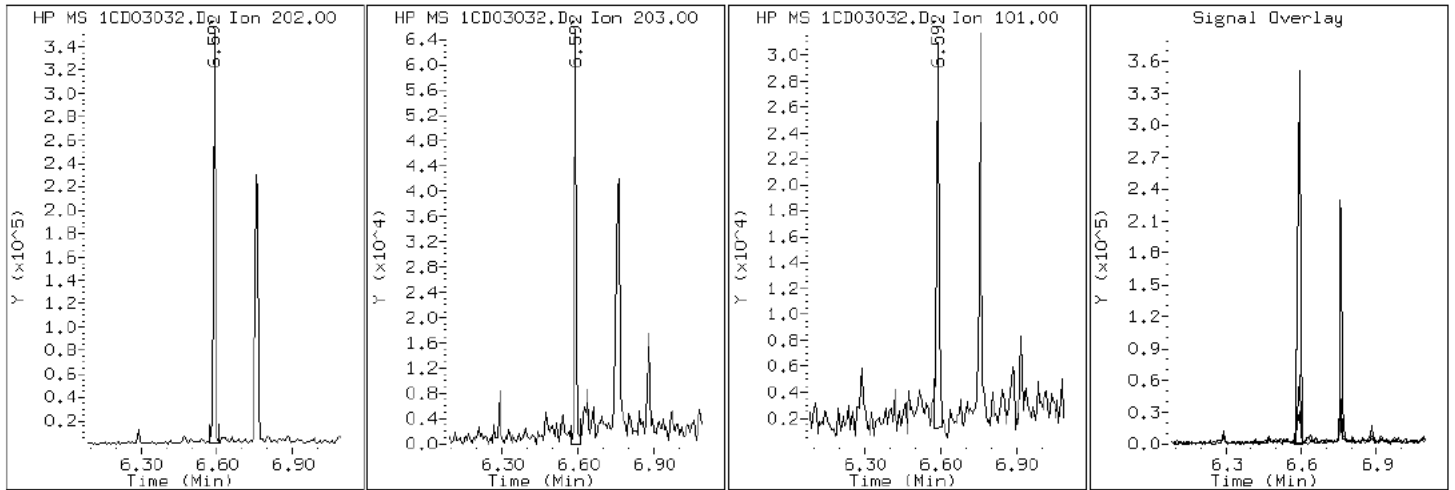
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

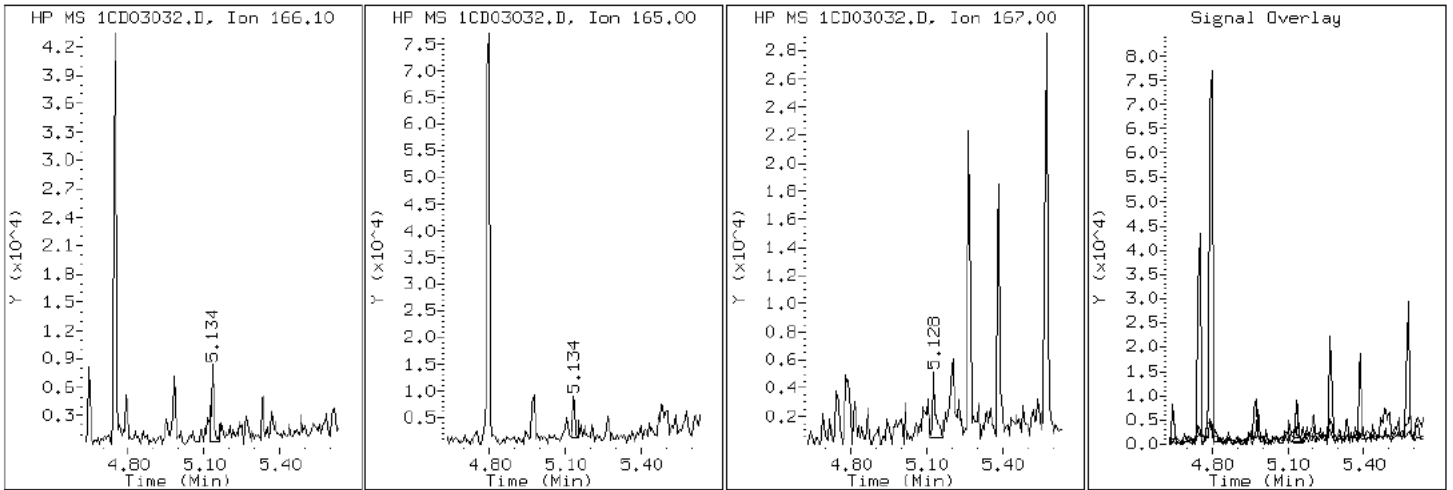
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

9 Fluorene





Data File: 1CD03032.D

Date: 03-APR-2013 20:45

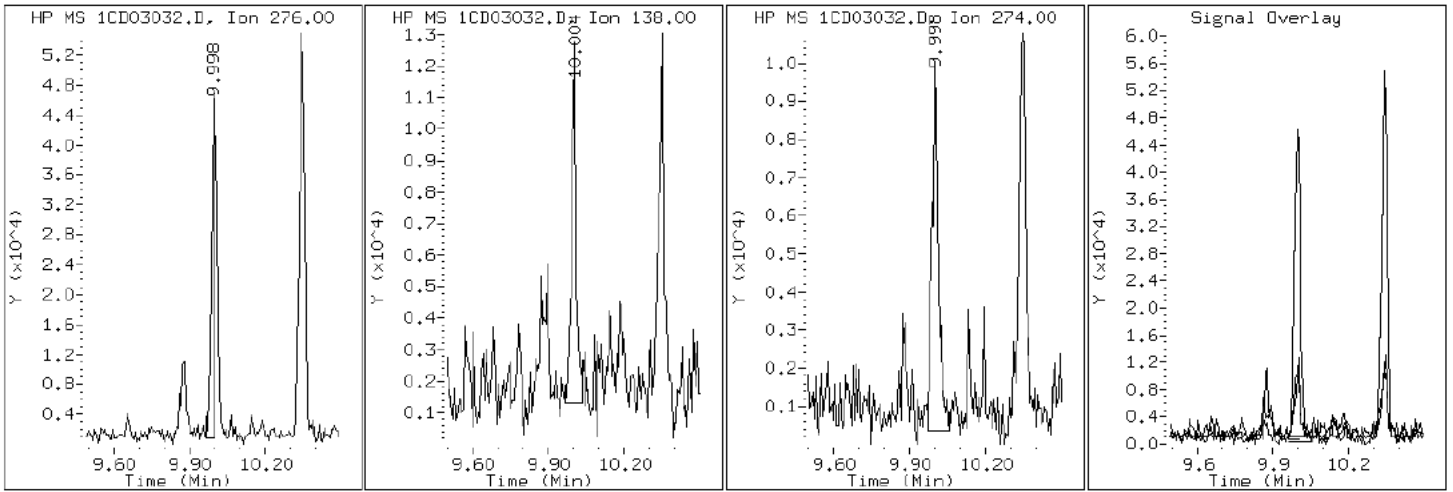
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

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



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

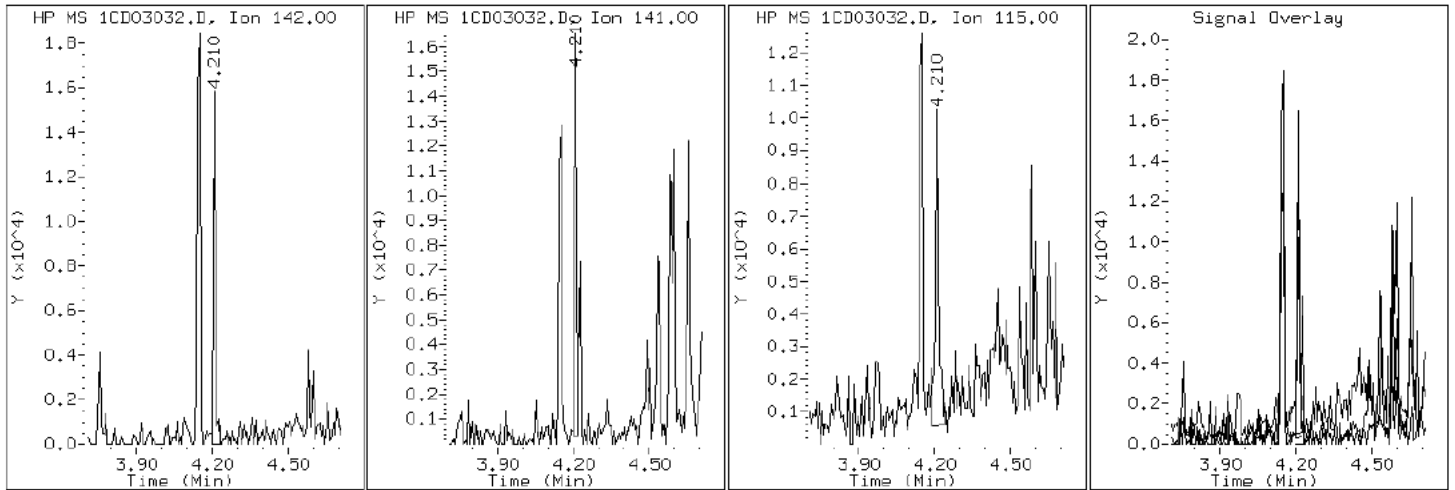
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

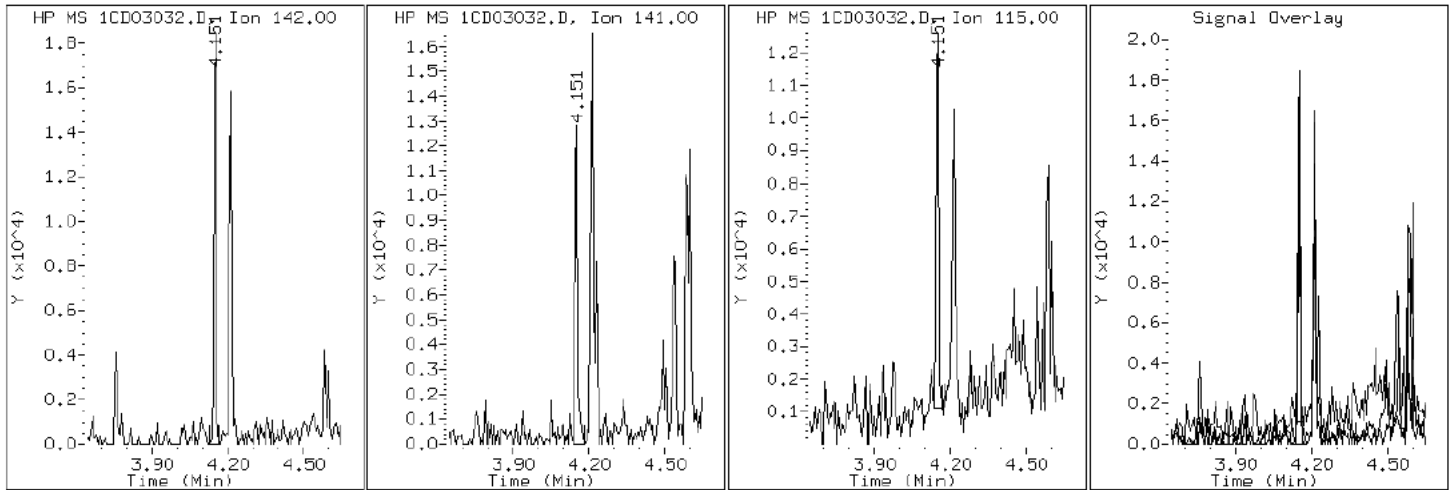
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

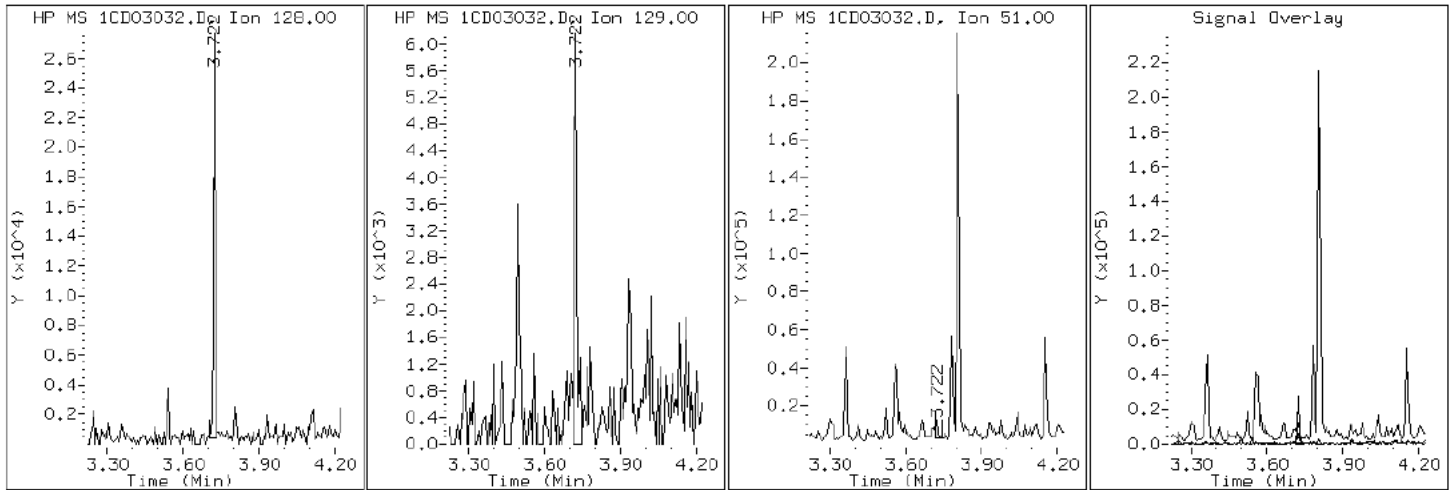
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

2 Naphthalene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

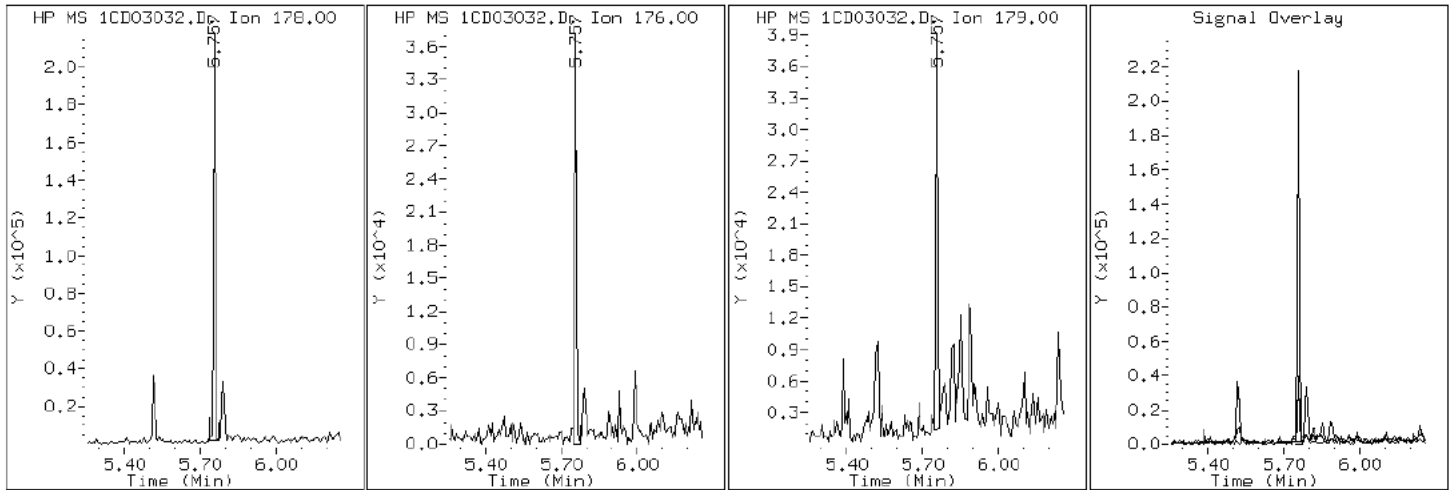
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03032.D

Date: 03-APR-2013 20:45

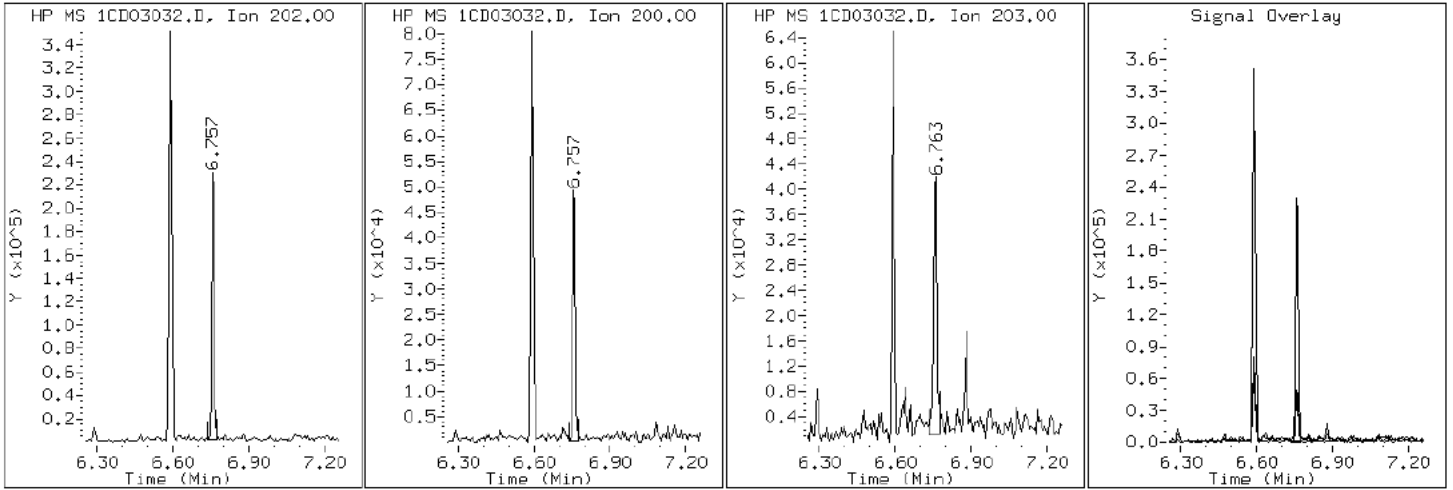
Client ID: CV0509A-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-8-b

Operator: SCC

16 Pyrene

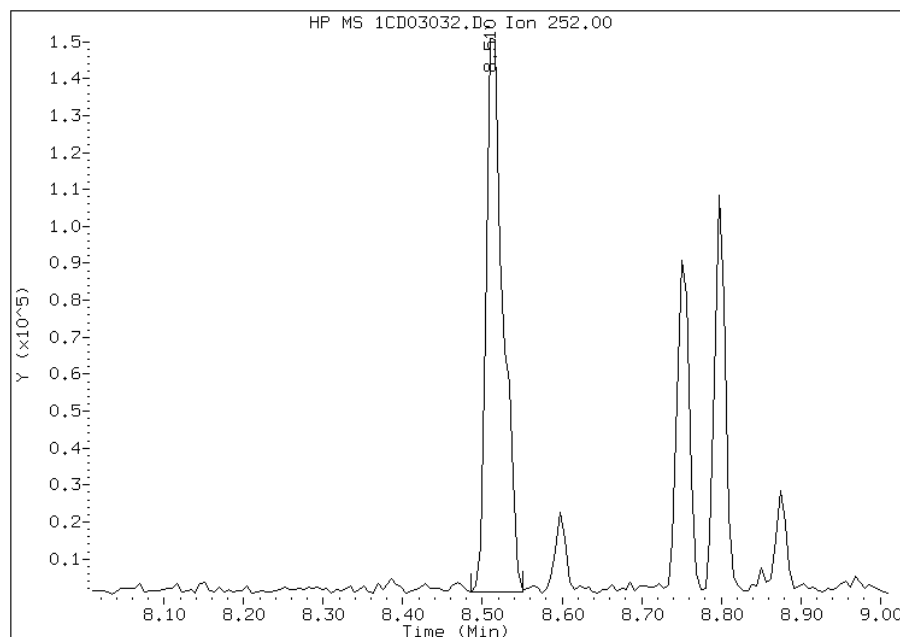


# Manual Integration Report

Data File: 1CD03032.D  
Inj. Date and Time: 03-APR-2013 20:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

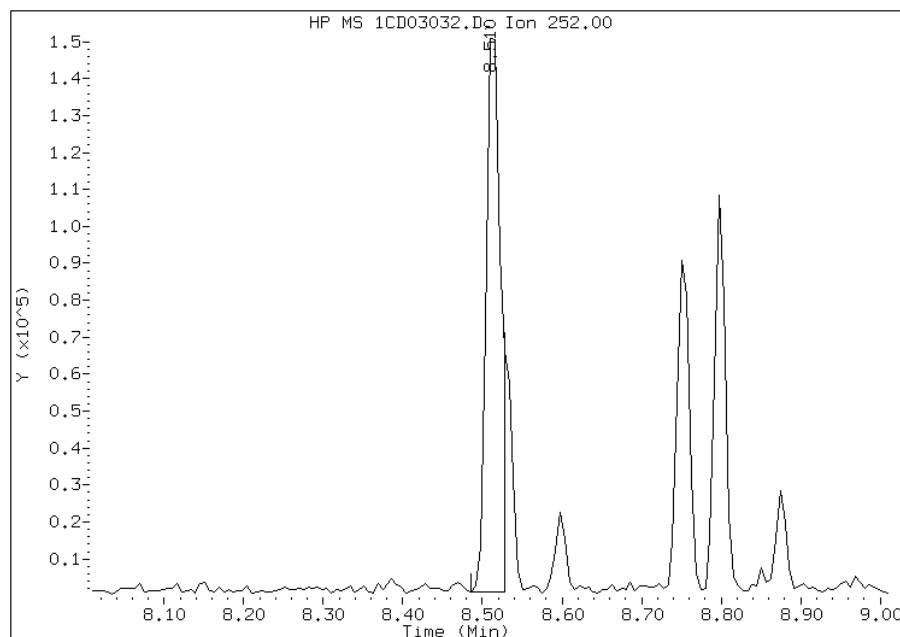
## Processing Integration Results

RT: 8.51  
Response: 223640  
Amount: 10  
Conc: 815



## Manual Integration Results

RT: 8.51  
Response: 190949  
Amount: 9  
Conc: 696



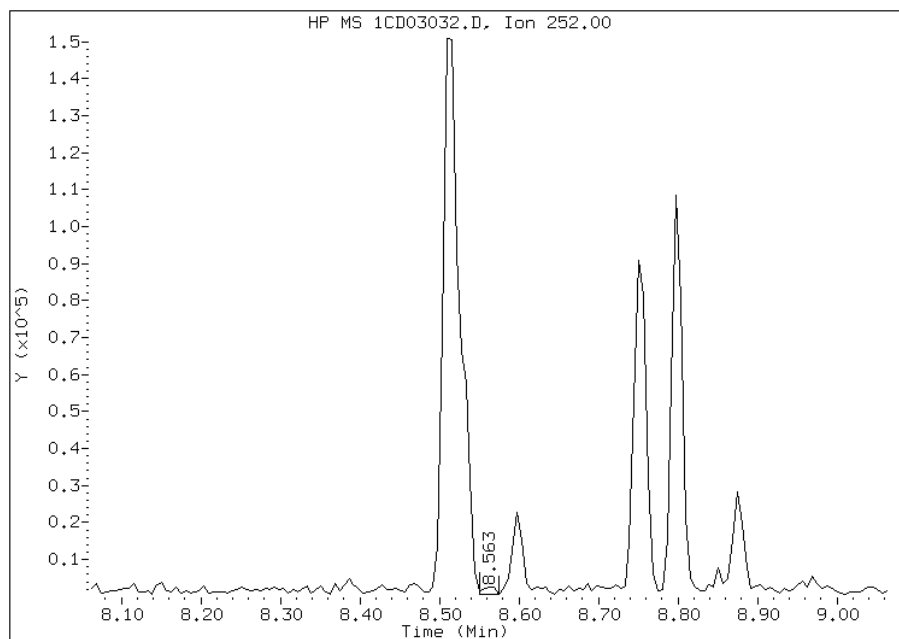
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:42  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03032.D  
Inj. Date and Time: 03-APR-2013 20:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

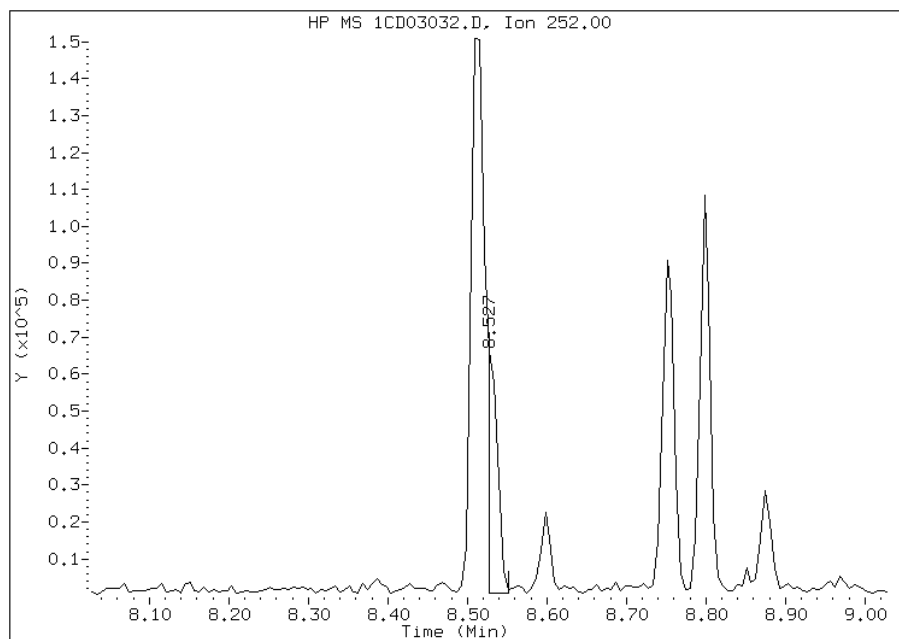
## Processing Integration Results

RT: 8.56  
Response: 2253  
Amount: 0  
Conc: 8



## Manual Integration Results

RT: 8.53  
Response: 56331  
Amount: 3  
Conc: 212



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:42  
Manual Integration Reason: Baseline Event

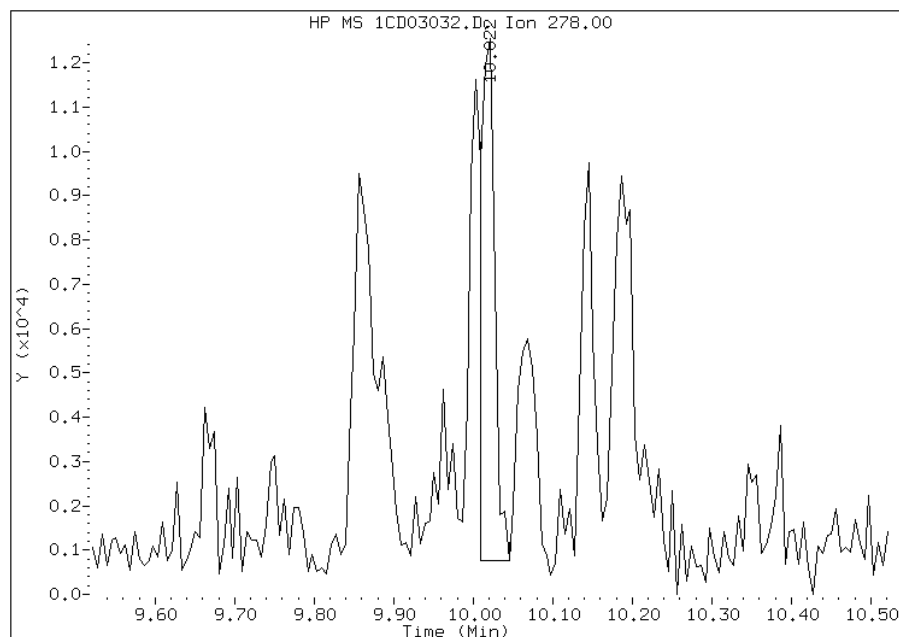


# Manual Integration Report

Data File: 1CD03032.D  
Inj. Date and Time: 03-APR-2013 20:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/05/2013

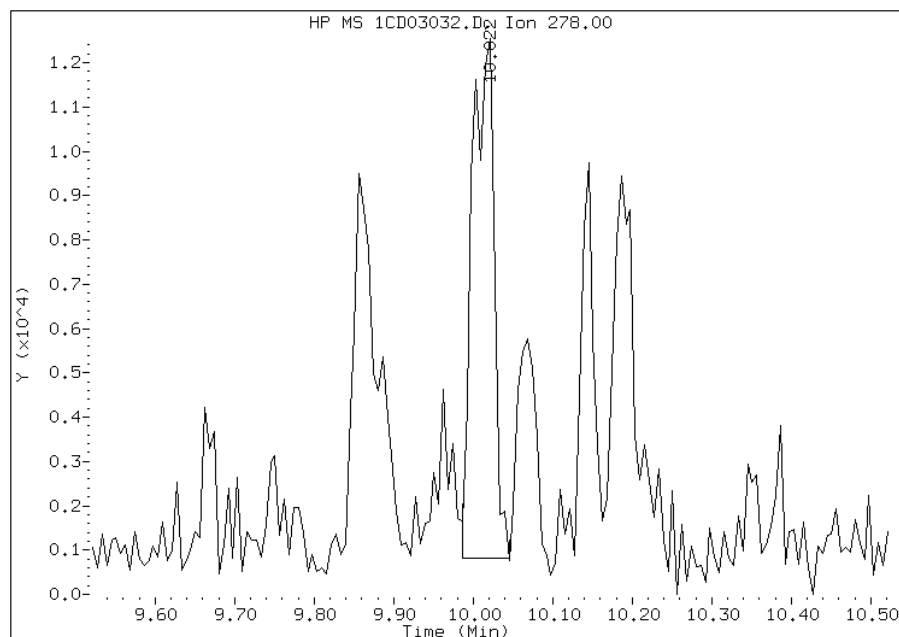
## Processing Integration Results

RT: 10.02  
Response: 14265  
Amount: 1  
Conc: 63



## Manual Integration Results

RT: 10.02  
Response: 22511  
Amount: 1  
Conc: 99



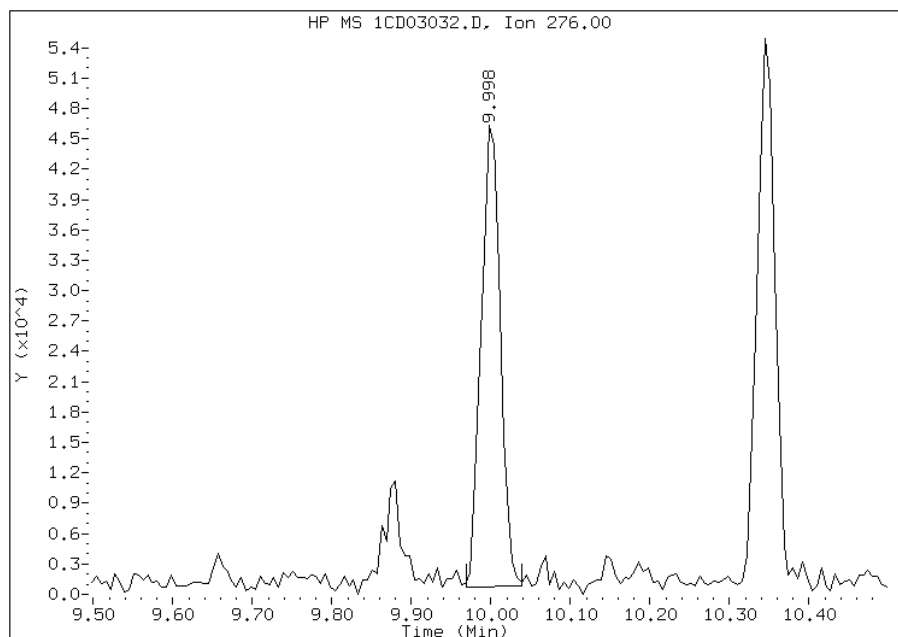
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:42  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03032.D  
Inj. Date and Time: 03-APR-2013 20:45  
Instrument ID: BSMC5973.i  
Client ID: CV0509A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

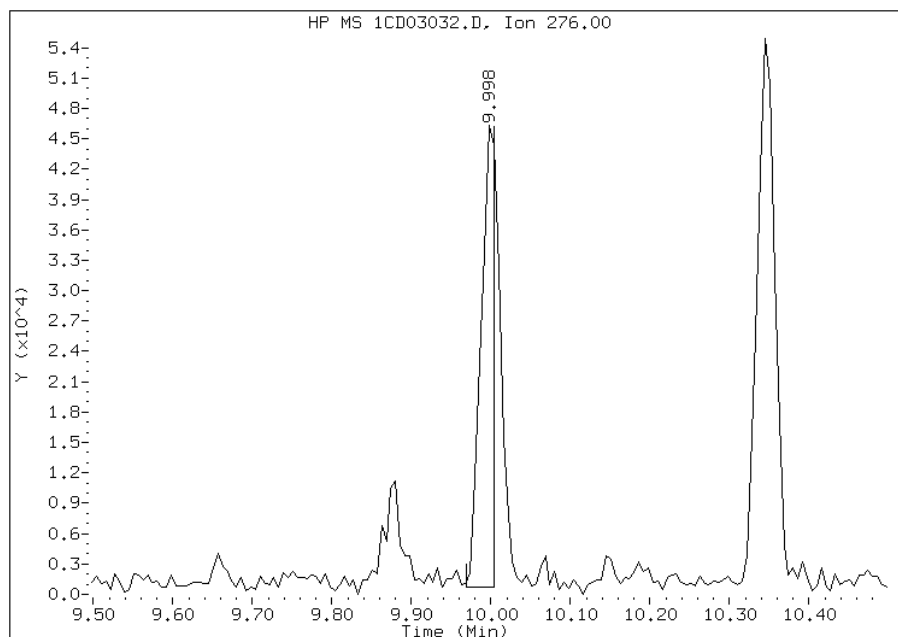
## Processing Integration Results

RT: 10.00  
Response: 75463  
Amount: 4  
Conc: 308



## Manual Integration Results

RT: 10.00  
Response: 55426  
Amount: 3  
Conc: 226



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509B-CS Lab Sample ID: 680-88767-9  
 Matrix: Solid Lab File ID: 1CD03033.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:14  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 15.38(g) Date Analyzed: 04/03/2013 21:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 29.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	13	J	55	6.9
120-12-7	Anthracene	54		12	5.8
56-55-3	Benzo[a]anthracene	200		11	5.4
50-32-8	Benzo[a]pyrene	160		14	7.2
205-99-2	Benzo[b]fluoranthene	340		17	8.4
191-24-2	Benzo[g,h,i]perylene	160		28	6.1
207-08-9	Benzo[k]fluoranthene	100		11	5.0
218-01-9	Chrysene	280		12	6.2
53-70-3	Dibenz(a,h)anthracene	56		28	5.7
206-44-0	Fluoranthene	340		28	5.5
86-73-7	Fluorene	27	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	160		28	9.8
90-12-0	1-Methylnaphthalene	44	J	55	6.1
91-57-6	2-Methylnaphthalene	64		55	9.8
91-20-3	Naphthalene	70		55	6.1
85-01-8	Phenanthrene	260		11	5.4
129-00-0	Pyrene	300		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03033.D  
 Lab Smp Id: 680-88767-A-9-B Client Smp ID: CV0509B-CS  
 Inj Date : 03-APR-2013 21:03  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-9-b  
 Misc Info : 680-88767-A-9-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	29.550	% 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		3.710	3.704	(1.000)	592063	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.792	(1.000)	432430	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	810673	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	83843	7.06170	651.7391
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	891105	40.0000	
* 23 Perylene-d12	264		8.851	8.851	(1.000)	792918	40.0000	
2 Naphthalene	128		3.722	3.722	(1.003)	11471	0.75432	69.6180
3 2-Methylnaphthalene	142		4.151	4.145	(1.119)	7141	0.68984	63.6669
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	4420	0.47453	43.7954(Q)
5 Acenaphthylene	152		4.710	4.704	(0.982)	2545	0.14220	13.1240(Q)
9 Fluorene	166		5.133	5.133	(1.070)	4298	0.29085	26.8431
11 Phenanthrene	178		5.757	5.757	(1.003)	66058	2.79782	258.2163
12 Anthracene	178		5.792	5.792	(1.009)	14062	0.58753	54.2241
13 Carbazole	167		5.898	5.898	(1.028)	11344	0.55322	51.0576(Q)

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.592	6.592	(1.149)	95997	3.68159	339.7814
16 Pyrene	202		6.763	6.757	(0.881)	81333	3.29493	304.0960
17 Benzo(a)anthracene	228		7.674	7.668	(0.999)	53428	2.20490	203.4950
19 Chrysene	228		7.698	7.698	(1.002)	76959	3.03077	279.7157
20 Benzo(b)fluoranthene	252		8.509	8.509	(0.961)	81888	3.65303	337.1458
21 Benzo(k)fluoranthene	252		8.527	8.533	(0.963)	24577	1.13359	104.6210(QM)
22 Benzo(a)pyrene	252		8.798	8.798	(0.994)	37543	1.77890	164.1787
24 Indeno(1,2,3-cd)pyrene	276		9.998	9.992	(1.130)	34777	1.73492	160.1191(M)
25 Dibenzo(a,h)anthracene	278		10.021	10.009	(1.132)	11181	0.60382	55.7276
26 Benzo(g,h,i)perylene	276		10.345	10.339	(1.169)	36093	1.76419	162.8209

QC Flag Legend

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

Data File: 1CD03033.D

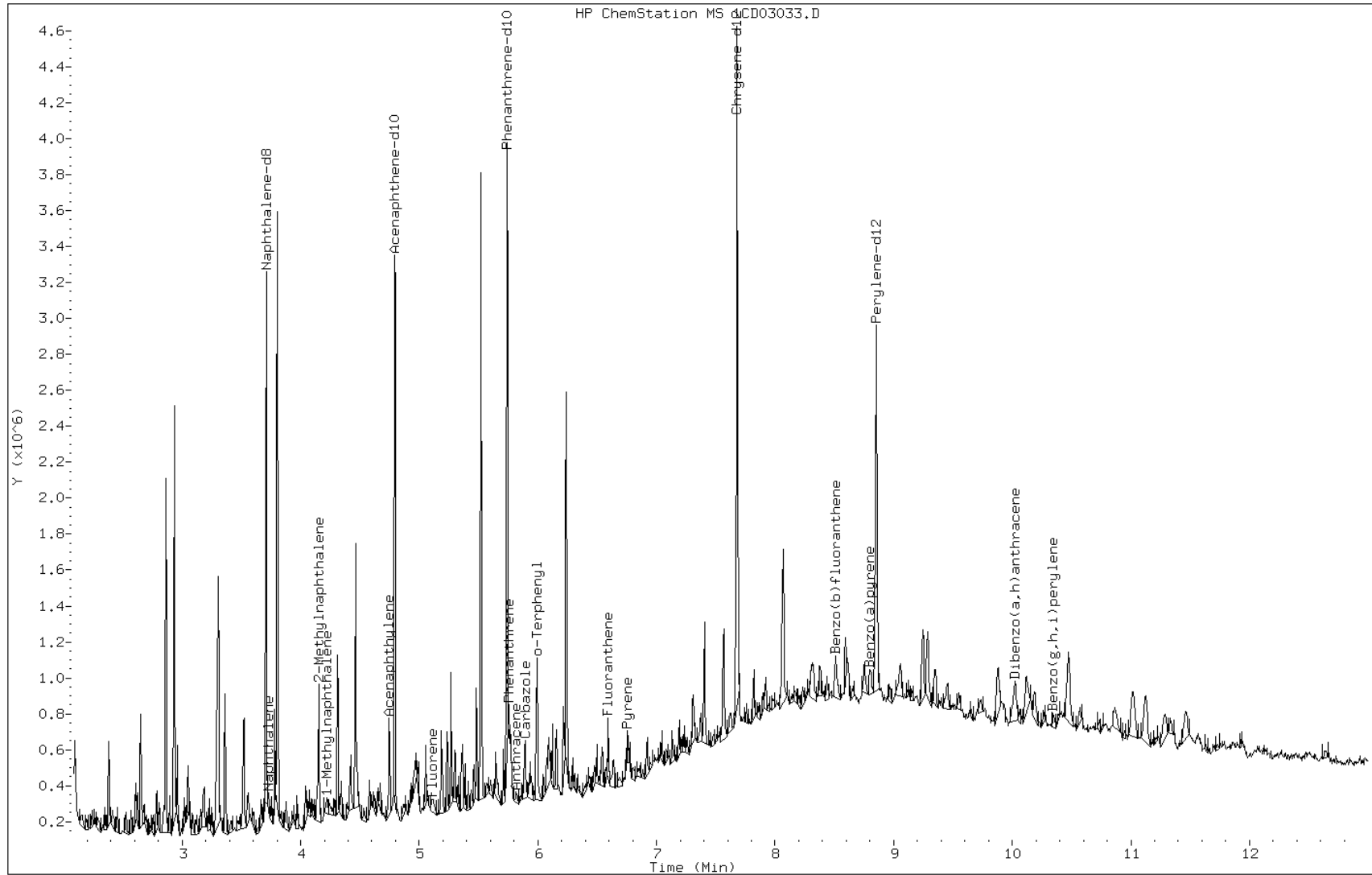
Date: 03-APR-2013 21:03

Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

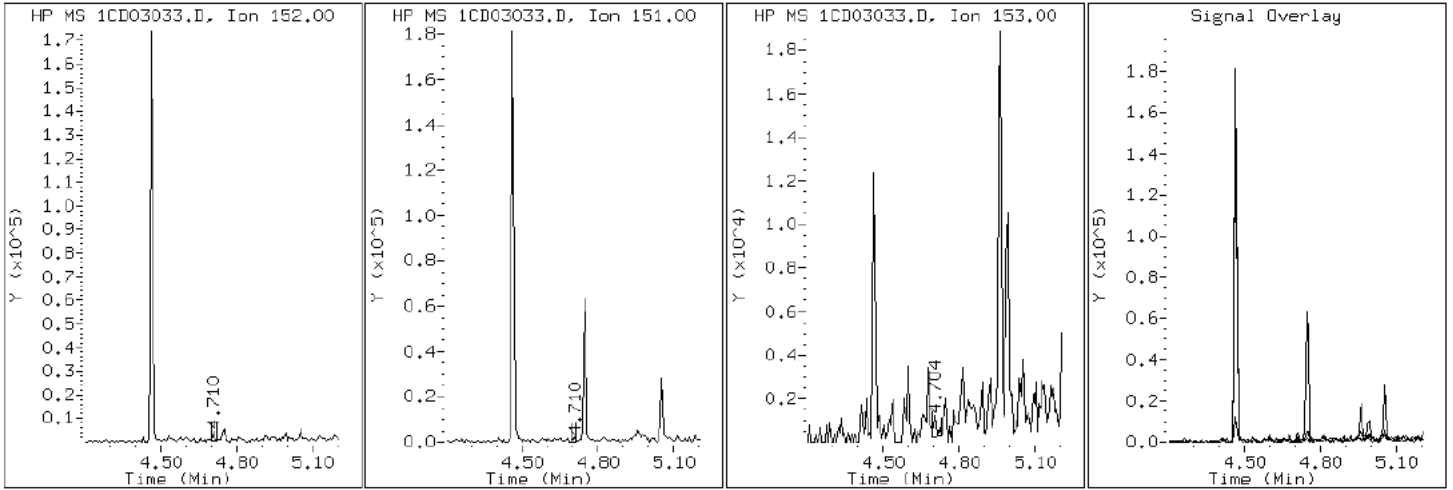
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

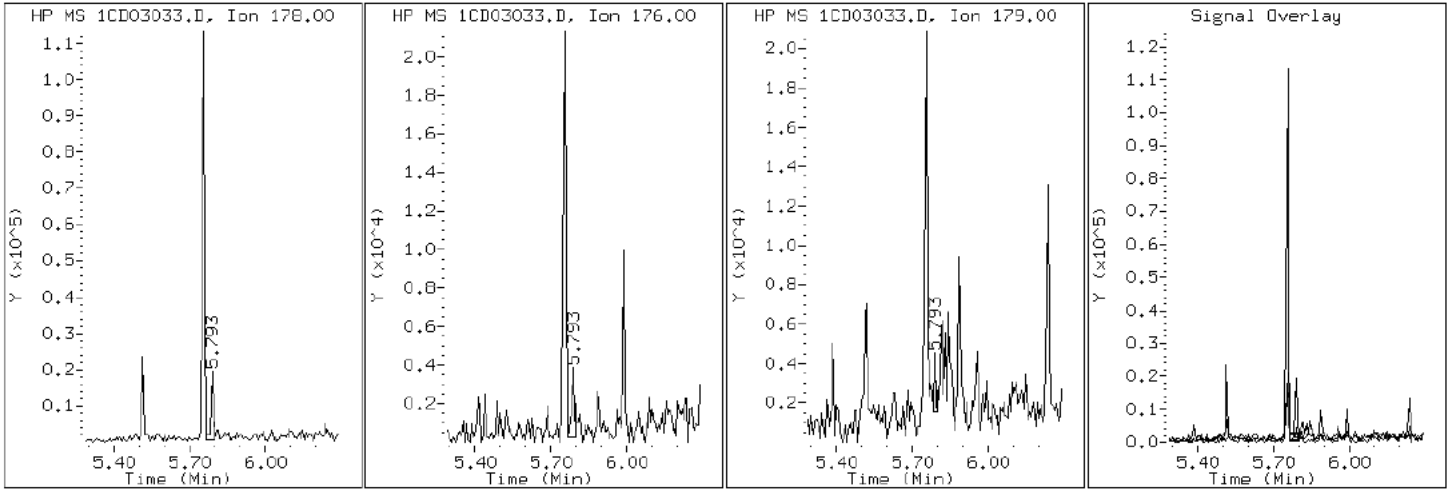
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

12 Anthracene





Data File: 1CD03033.D

Date: 03-APR-2013 21:03

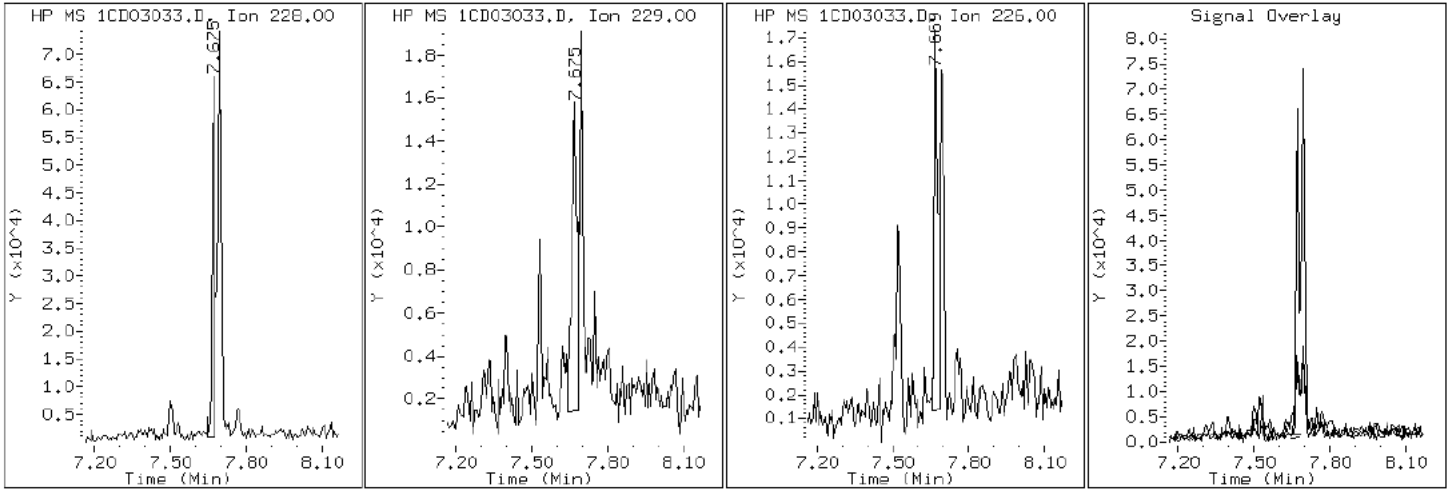
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

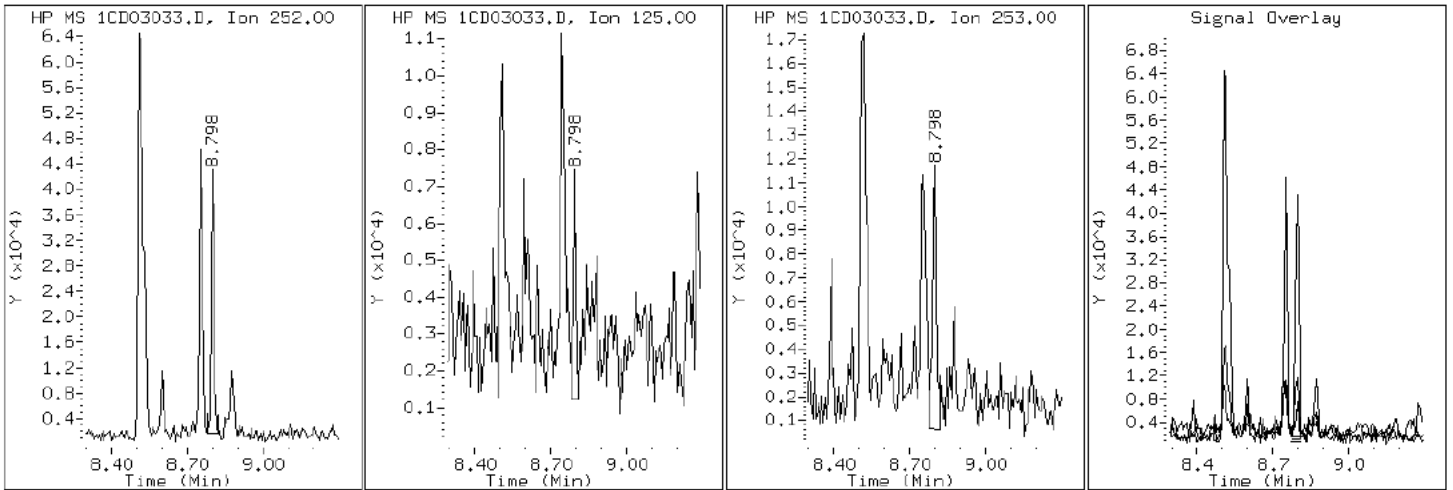
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

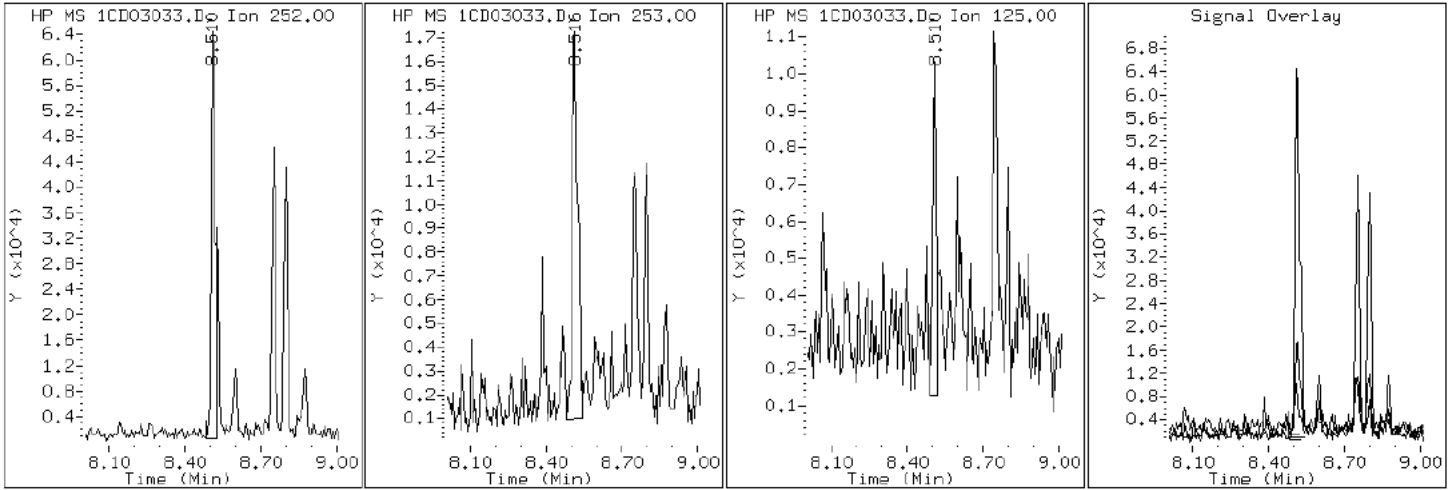
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

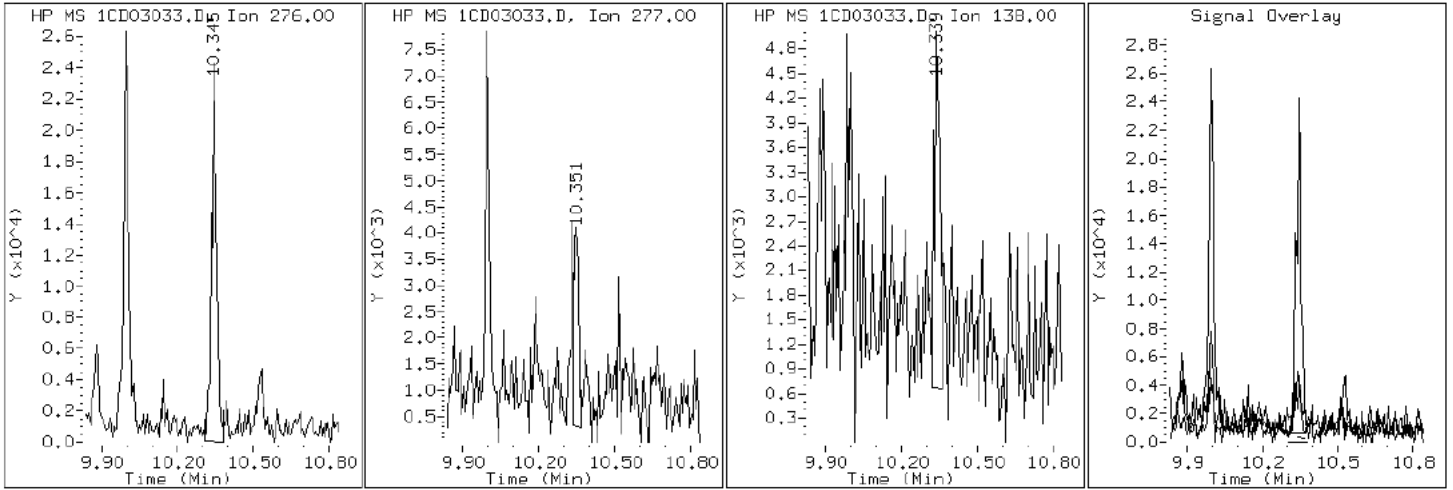
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

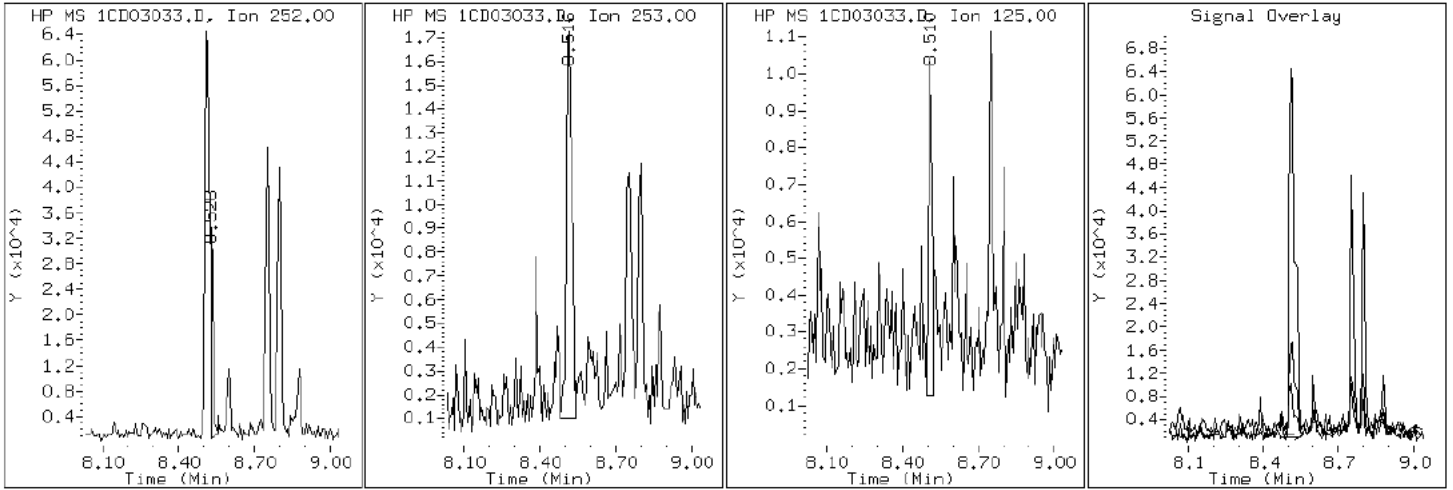
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

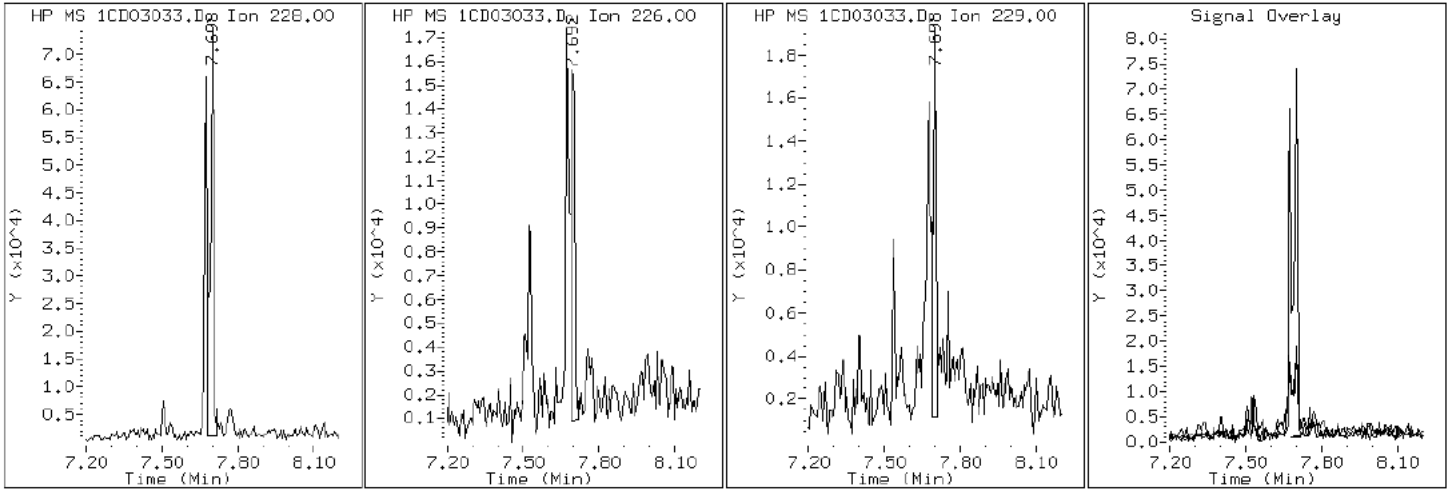
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

19 Chrysene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

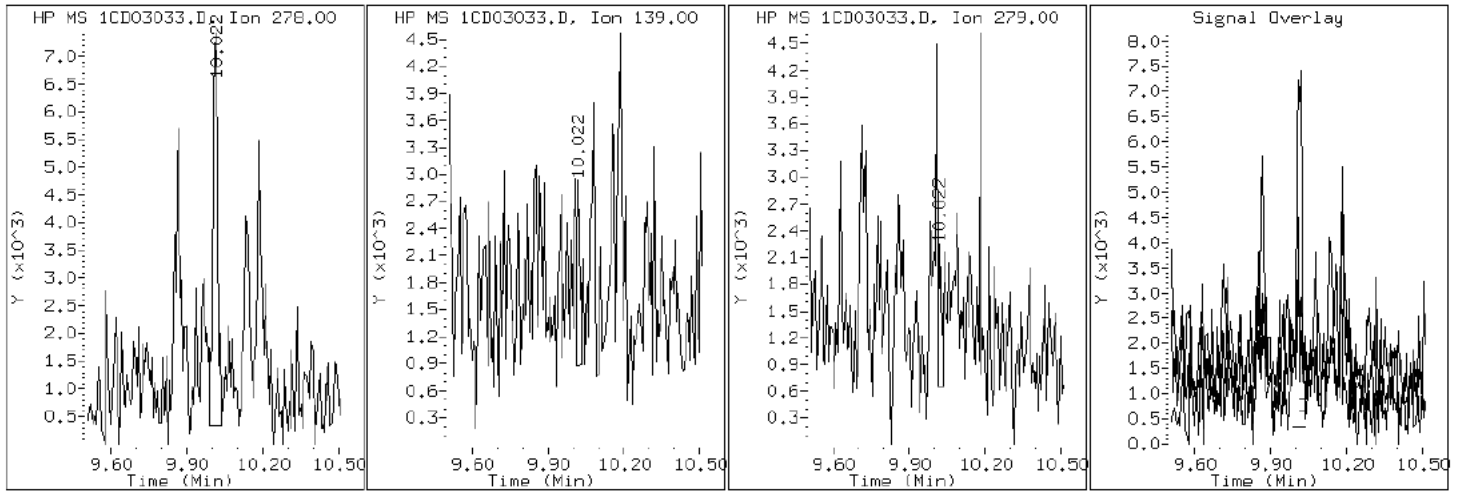
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

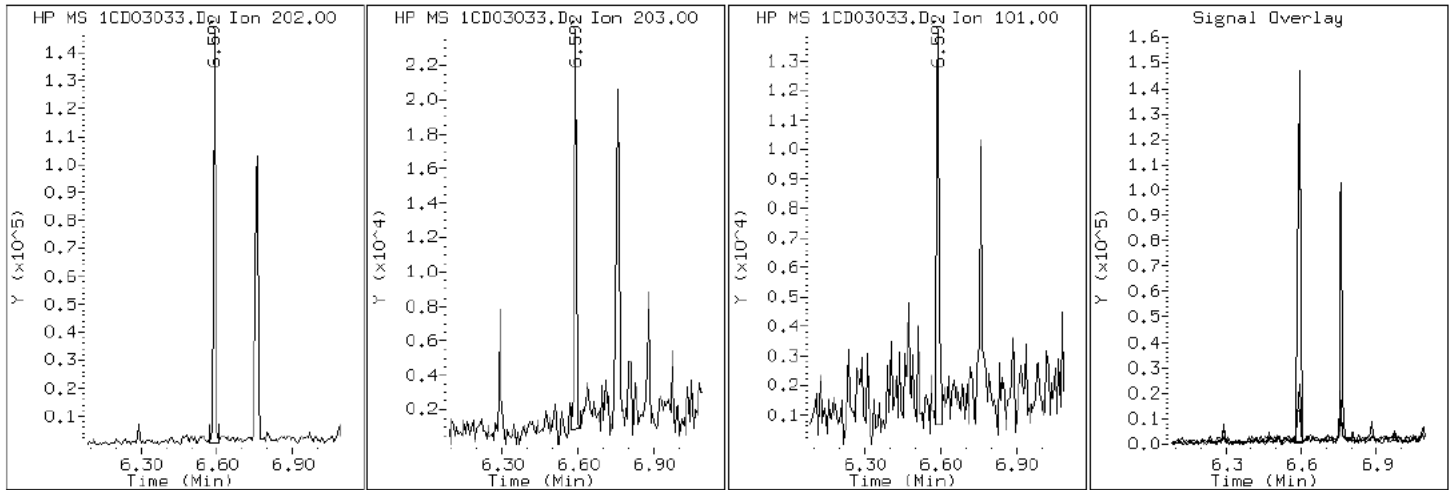
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

15 Fluoranthene





Data File: 1CD03033.D

Date: 03-APR-2013 21:03

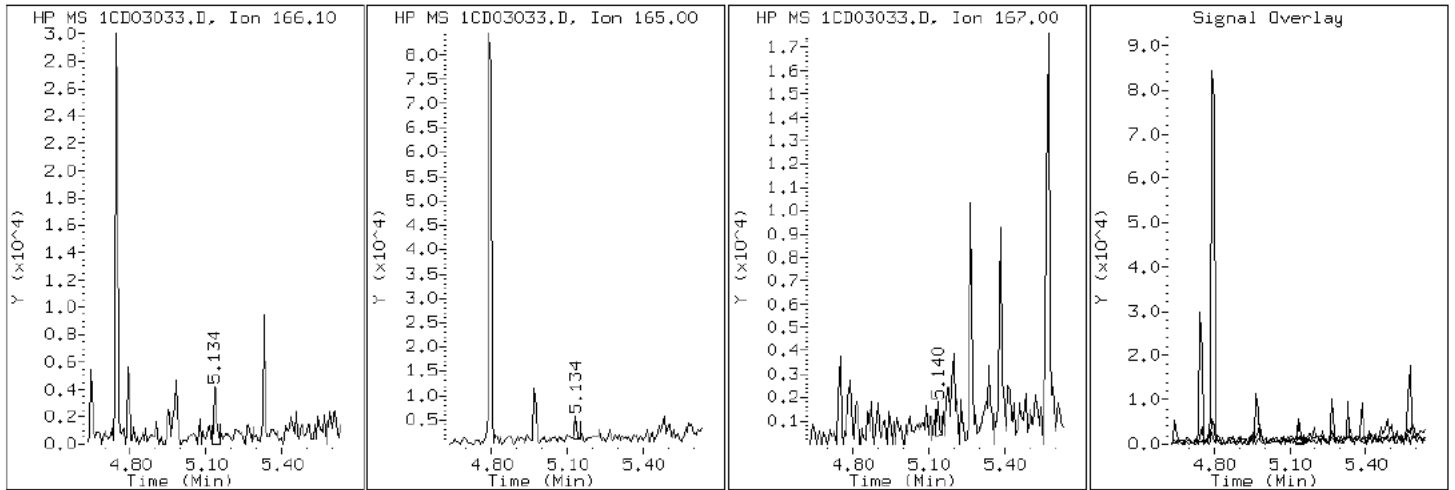
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

9 Fluorene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

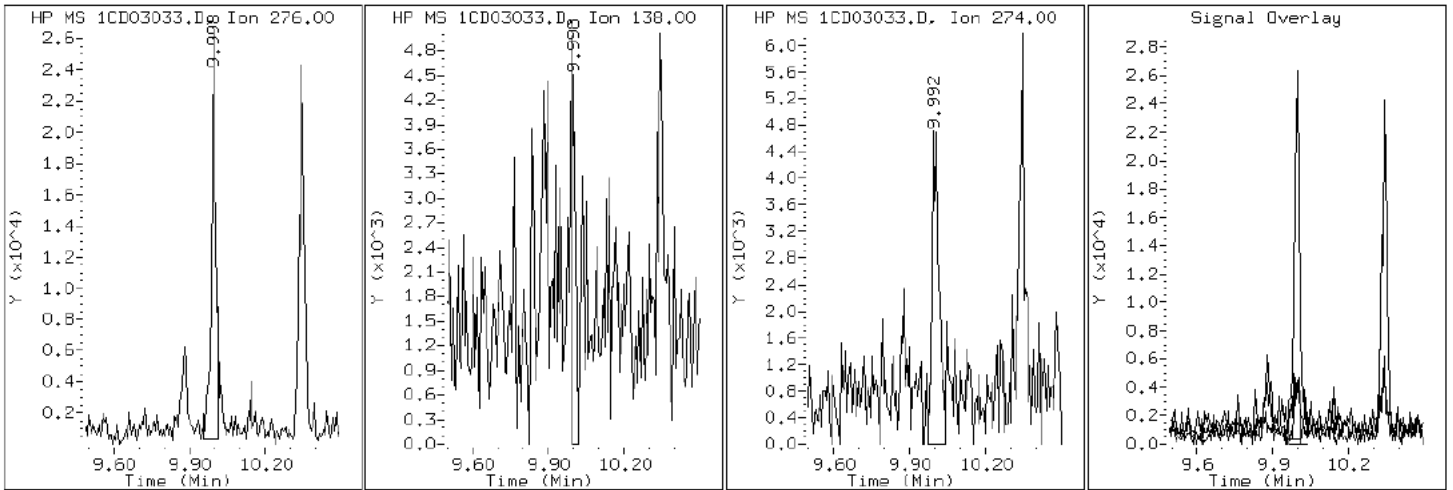
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

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



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

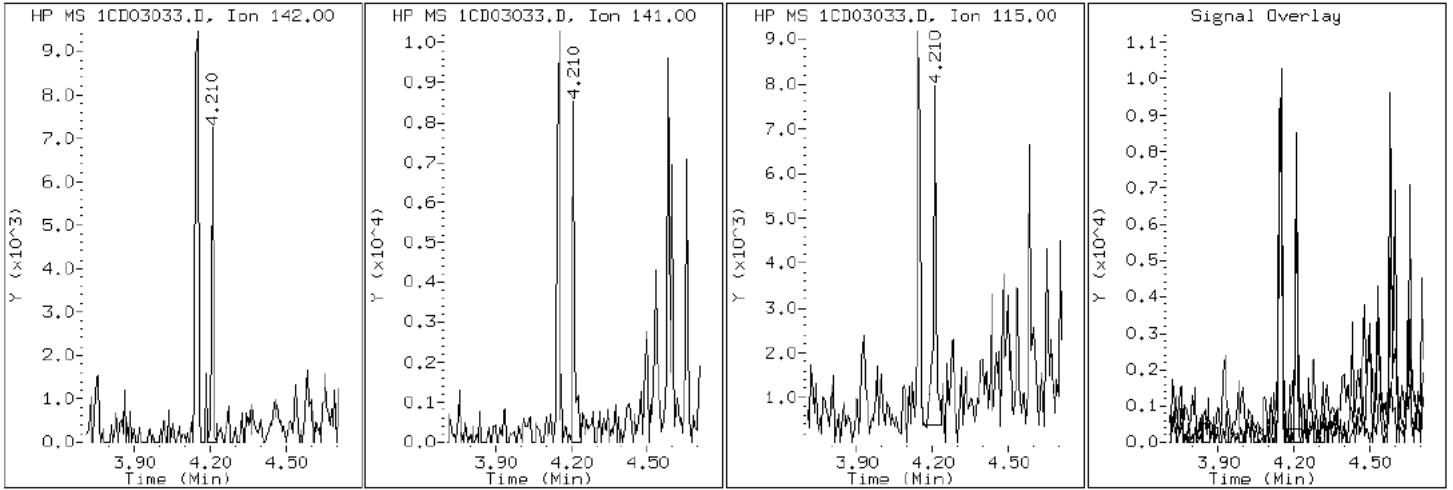
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

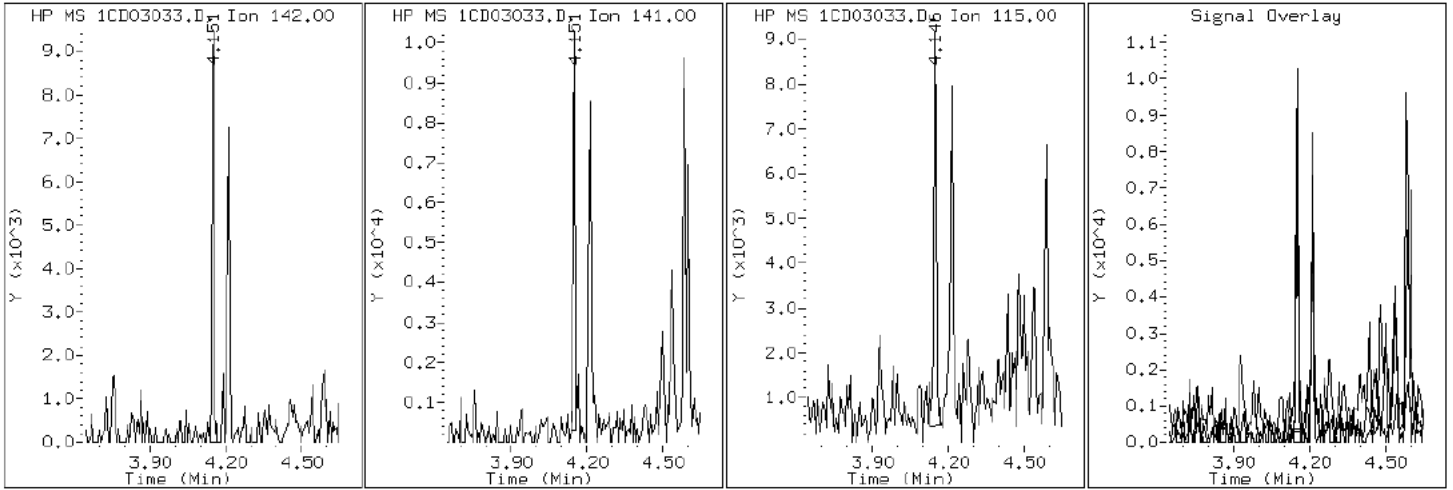
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

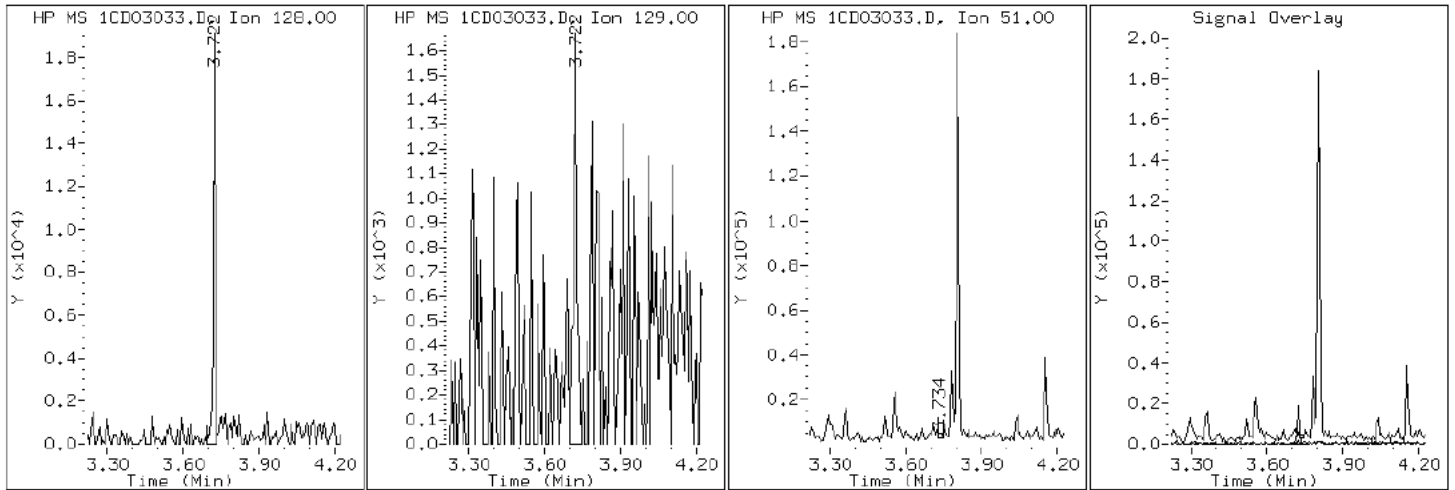
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

2 Naphthalene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

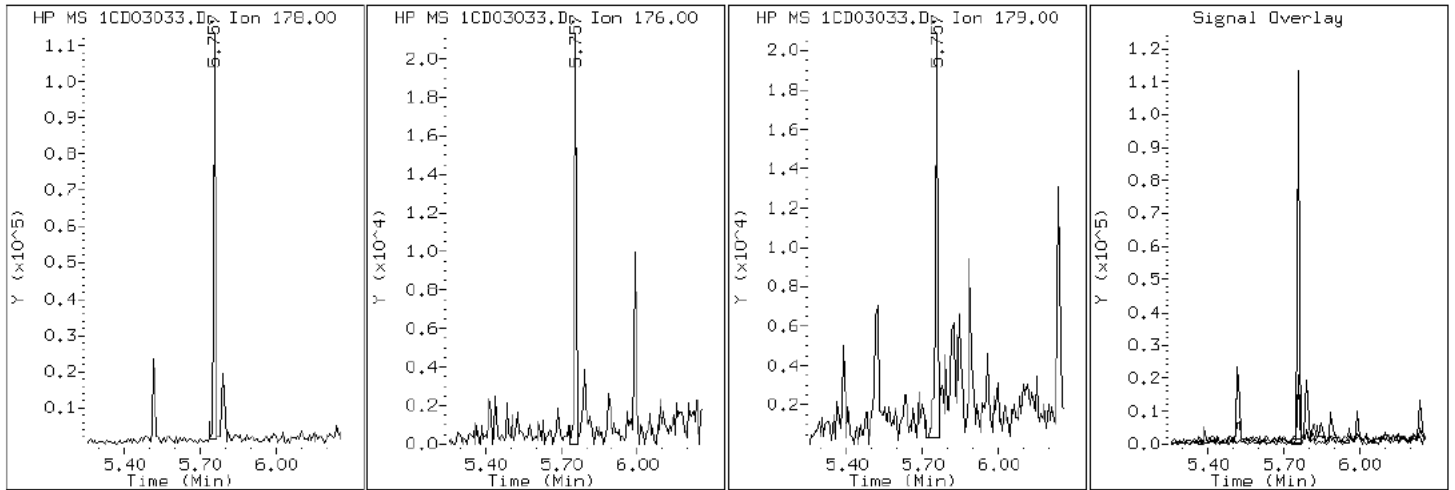
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03033.D

Date: 03-APR-2013 21:03

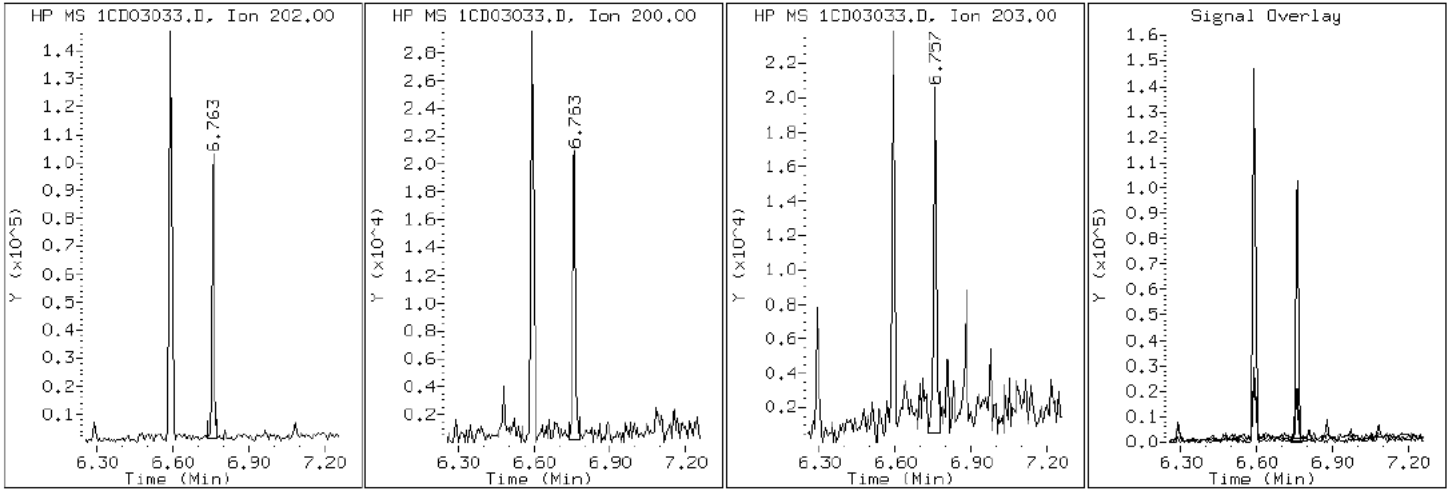
Client ID: CV0509B-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-9-b

Operator: SCC

16 Pyrene

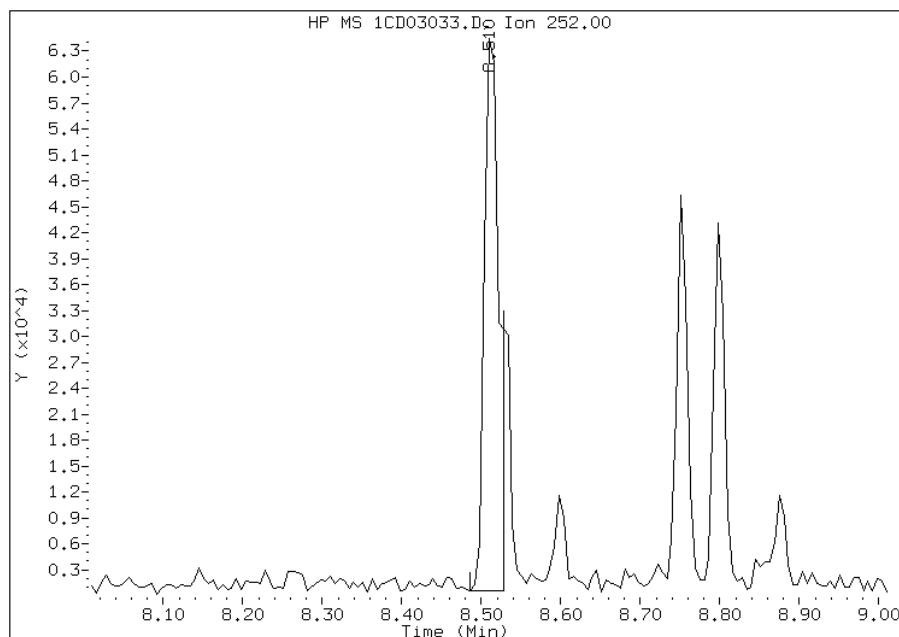


# Manual Integration Report

Data File: 1CD03033.D  
Inj. Date and Time: 03-APR-2013 21:03  
Instrument ID: BSMC5973.i  
Client ID: CV0509B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

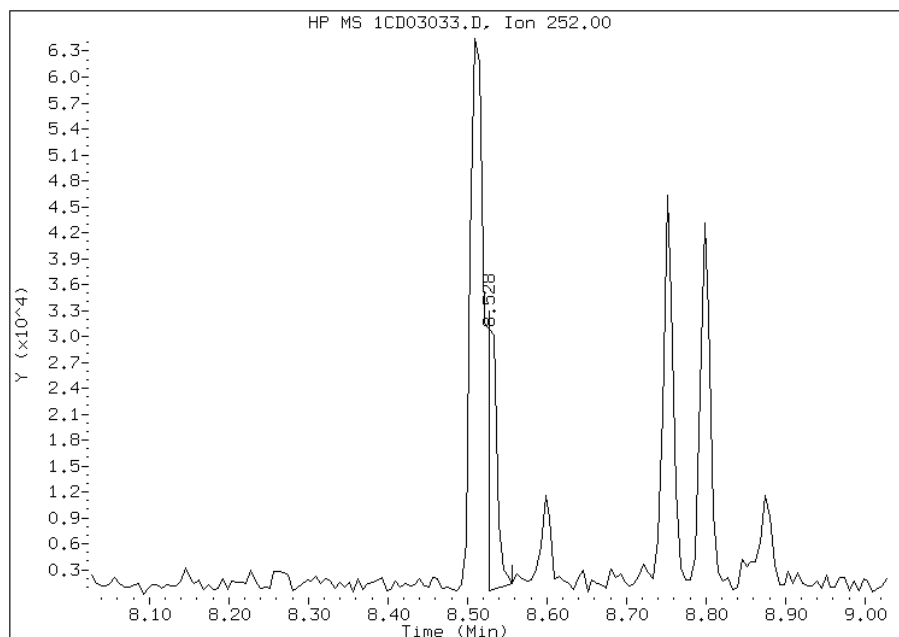
## Processing Integration Results

RT: 8.51  
Response: 81888  
Amount: 4  
Conc: 349



## Manual Integration Results

RT: 8.53  
Response: 24577  
Amount: 1  
Conc: 105



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:43  
Manual Integration Reason: Baseline Event

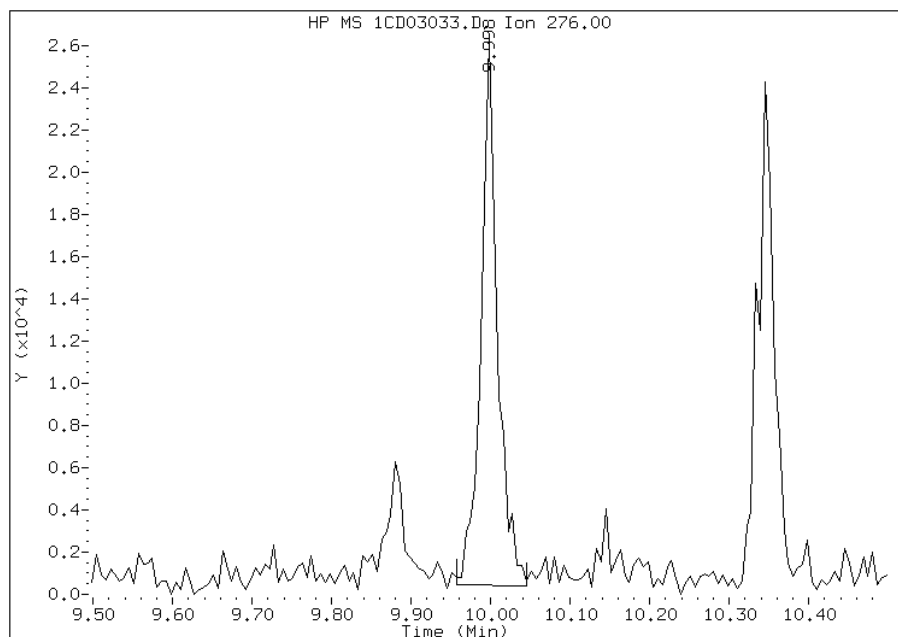


# Manual Integration Report

Data File: 1CD03033.D  
Inj. Date and Time: 03-APR-2013 21:03  
Instrument ID: BSMC5973.i  
Client ID: CV0509B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

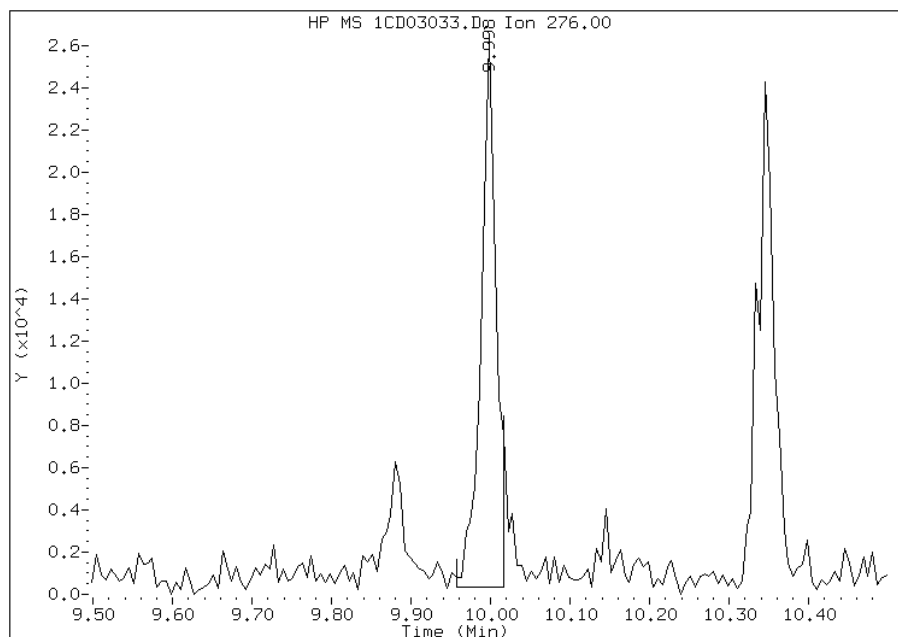
## Processing Integration Results

RT: 10.00  
Response: 37393  
Amount: 2  
Conc: 172



## Manual Integration Results

RT: 10.00  
Response: 34777  
Amount: 2  
Conc: 160



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:44  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509C-CS Lab Sample ID: 680-88767-10  
 Matrix: Solid Lab File ID: 1CD03034.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:23  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.80(g) Date Analyzed: 04/03/2013 21:21  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 16.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	65		49	6.1
120-12-7	Anthracene	98		10	5.1
56-55-3	Benzo[a]anthracene	460		9.7	4.7
50-32-8	Benzo[a]pyrene	380		13	6.3
205-99-2	Benzo[b]fluoranthene	760		15	7.4
191-24-2	Benzo[g,h,i]perylene	310		24	5.4
207-08-9	Benzo[k]fluoranthene	270		9.7	4.4
218-01-9	Chrysene	580		11	5.5
53-70-3	Dibenz(a,h)anthracene	120		24	5.0
206-44-0	Fluoranthene	660		24	4.9
86-73-7	Fluorene	33		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	230		24	8.6
90-12-0	1-Methylnaphthalene	140		49	5.4
91-57-6	2-Methylnaphthalene	160		49	8.6
91-20-3	Naphthalene	120		49	5.4
85-01-8	Phenanthrene	430		9.7	4.7
129-00-0	Pyrene	550		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03034.D  
 Lab Smp Id: 680-88767-A-10-B Client Smp ID: CV0509C-CS  
 Inj Date : 03-APR-2013 21:21  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-10-b  
 Misc Info : 680-88767-A-10-B  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 34  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.800	Weight Extracted
M	16.779	% 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		3.710	3.704	(1.000)	499504	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.792	(1.000)	376673	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	779725	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	64452	5.78958	470.0563
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	904051	40.0000	
* 23 Perylene-d12	264		8.856	8.851	(1.000)	848468	40.0000	
2 Naphthalene	128		3.721	3.722	(1.003)	19686	1.53441	124.5791
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	17443	1.99729	162.1597
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	13558	1.72531	140.0777(Q)
5 Acenaphthylene	152		4.710	4.704	(0.982)	12417	0.79649	64.6673
9 Fluorene	166		5.133	5.133	(1.070)	5158	0.40072	32.5340(Q)
11 Phenanthrene	178		5.757	5.757	(1.003)	120051	5.28644	429.2067
12 Anthracene	178		5.792	5.792	(1.009)	27895	1.21175	98.3818
13 Carbazole	167		5.898	5.898	(1.028)	15736	0.79786	64.7785(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.592	6.592	(1.149)	203724	8.12314	659.5180
16 Pyrene	202	6.762	6.757	(0.881)	169117	6.75309	548.2837
17 Benzo(a)anthracene	228	7.674	7.668	(0.999)	143789	5.62485	456.6816
19 Chrysene	228	7.698	7.698	(1.002)	183456	7.12132	578.1806
20 Benzo(b)fluoranthene	252	8.515	8.509	(0.961)	224993	9.37982	761.5485(M)
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	77567	3.34345	271.4552(QM)
22 Benzo(a)pyrene	252	8.803	8.798	(0.994)	106490	4.71547	382.8492
24 Indeno(1,2,3-cd)pyrene	276	10.003	9.992	(1.129)	61429	2.86387	232.5174(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009	(1.131)	29654	1.49658	121.5078
26 Benzo(g,h,i)perylene	276	10.350	10.339	(1.169)	82788	3.78166	307.0334

QC Flag Legend

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

Data File: 1CD03034.D

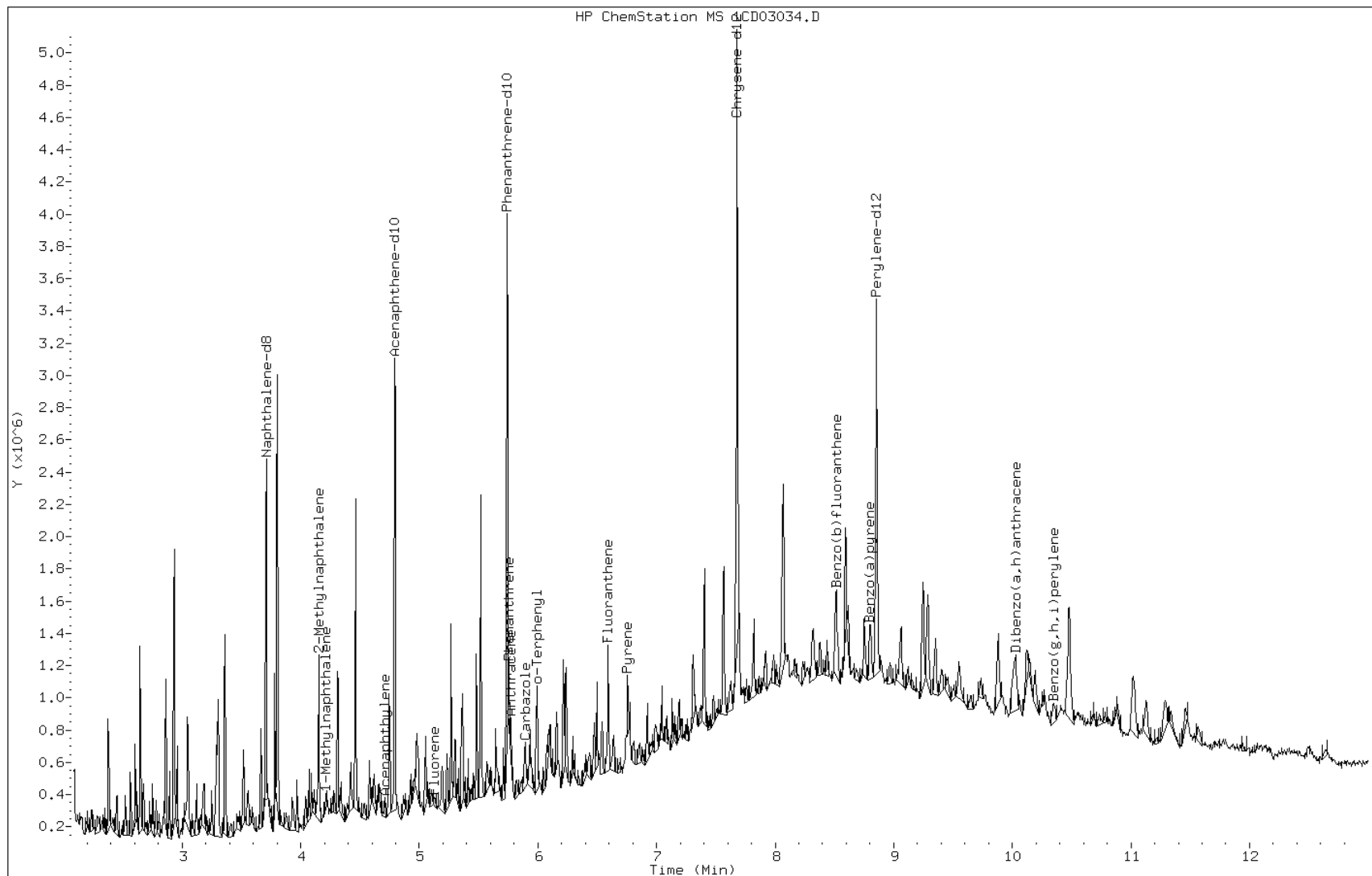
Date: 03-APR-2013 21:21

Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

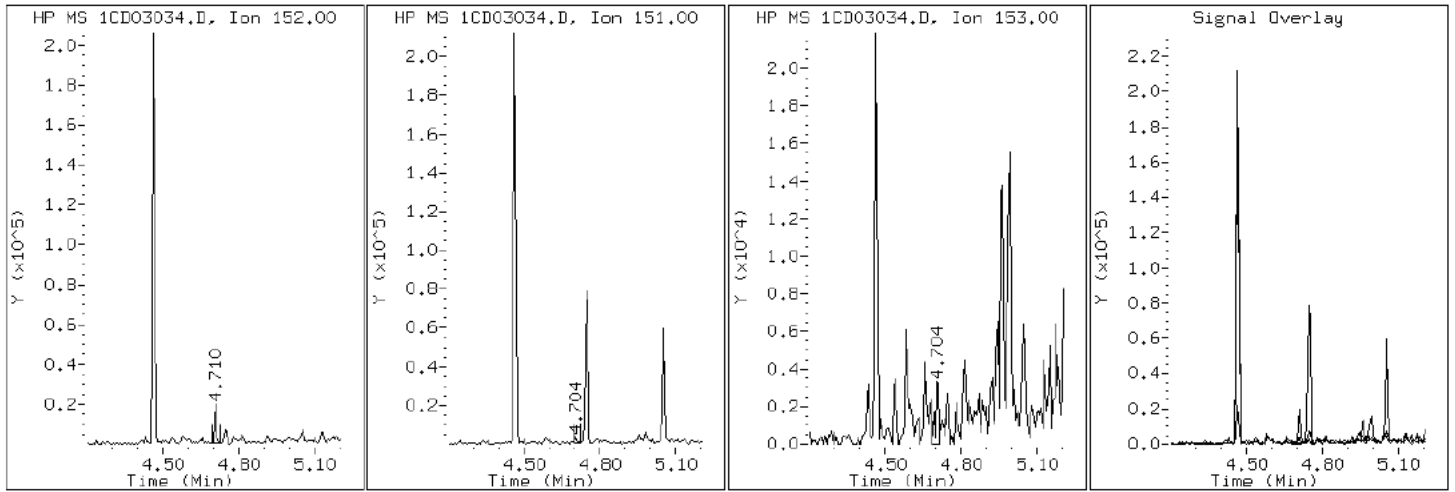
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

5 Acenaphthylene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

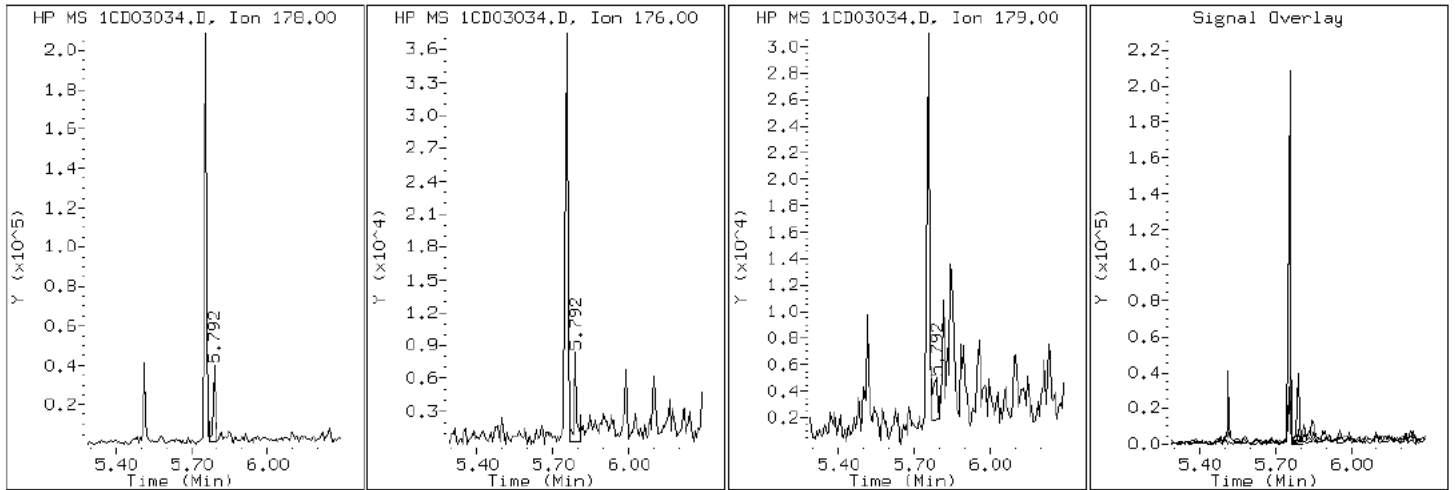
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

12 Anthracene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

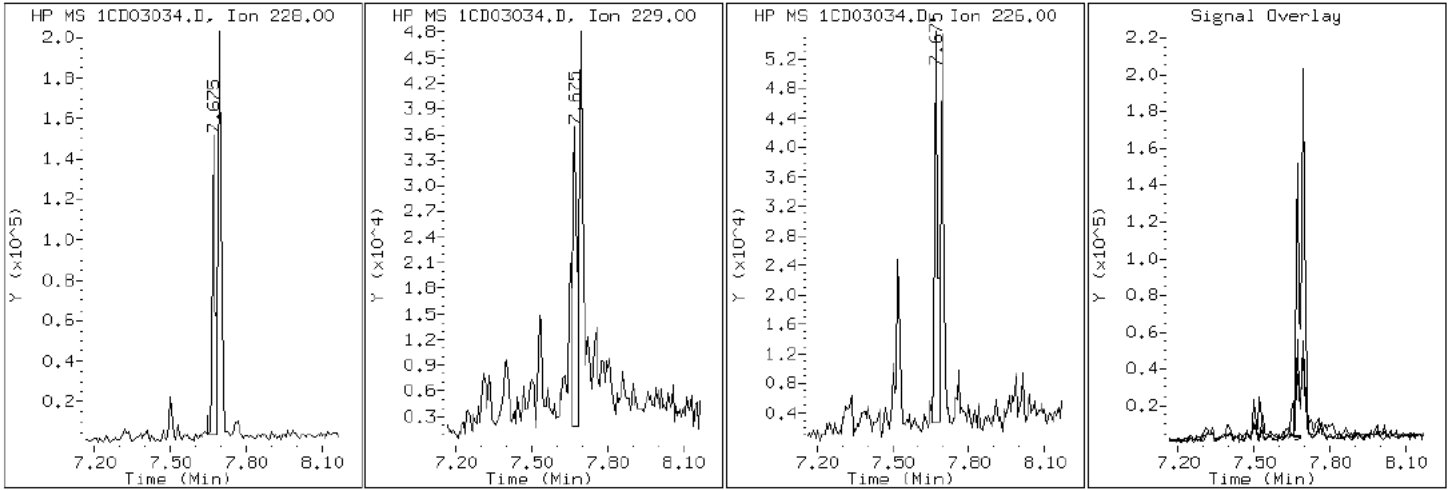
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD03034.D

Date: 03-APR-2013 21:21

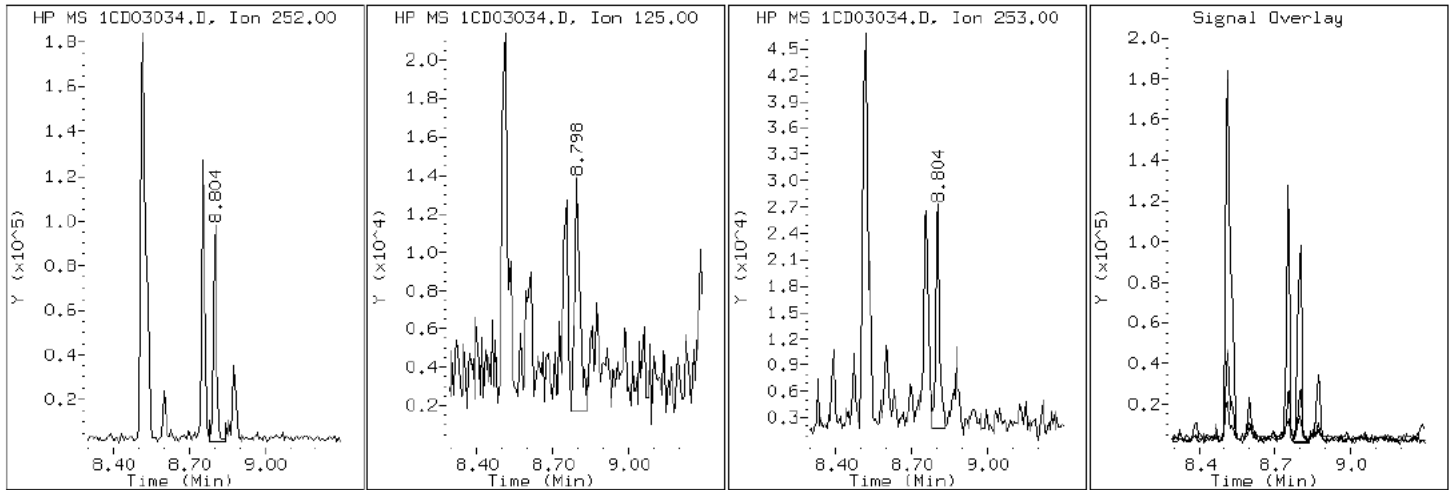
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

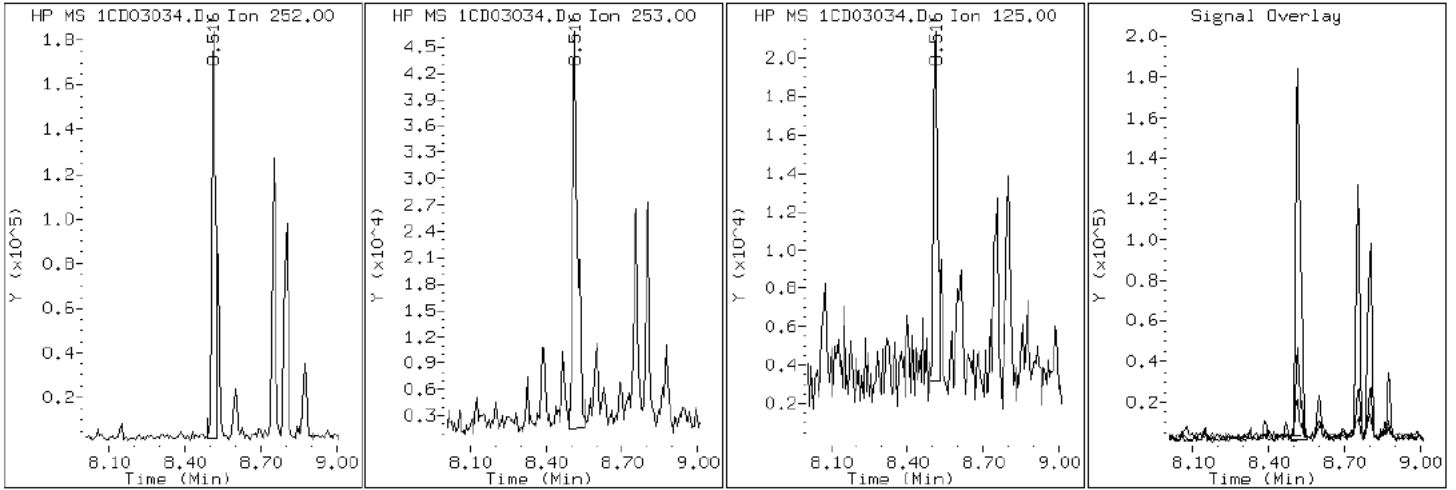
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

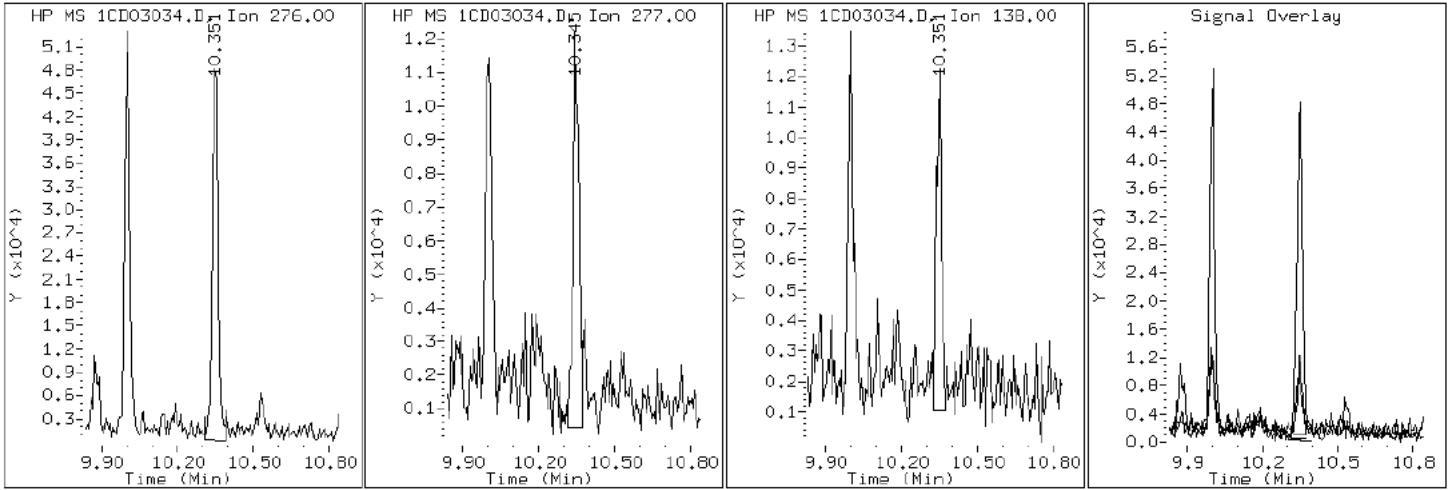
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

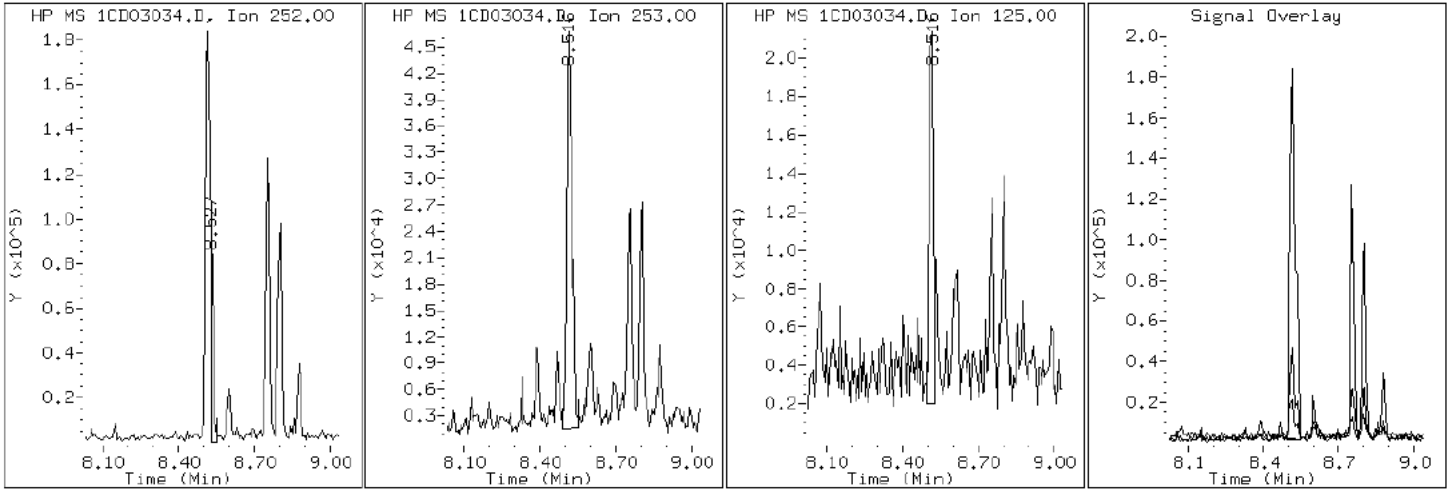
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

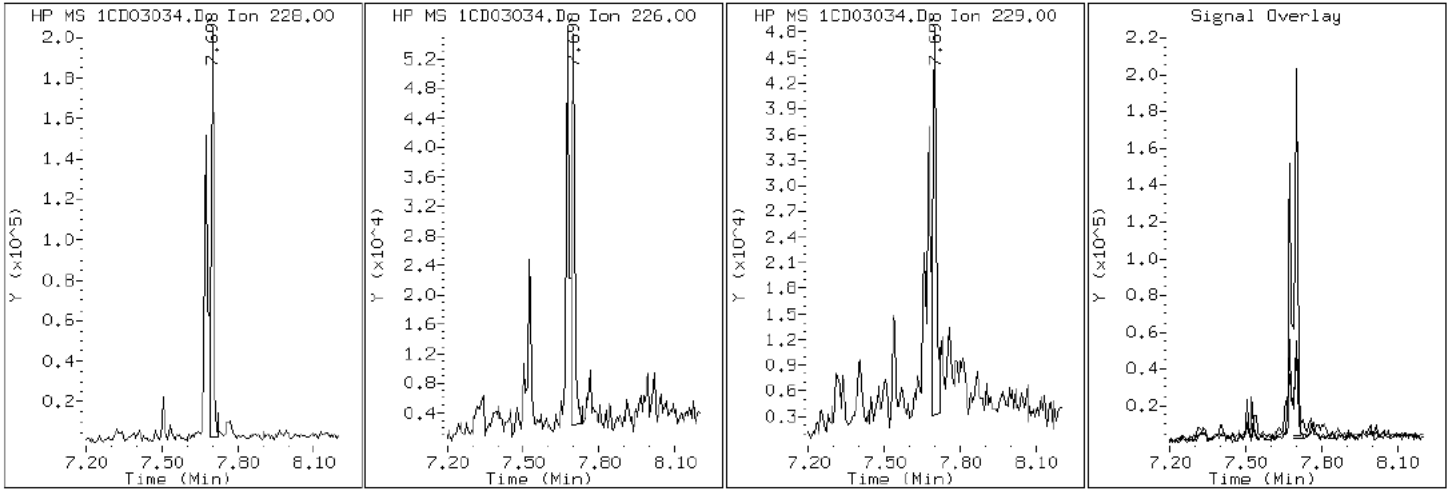
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

19 Chrysene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

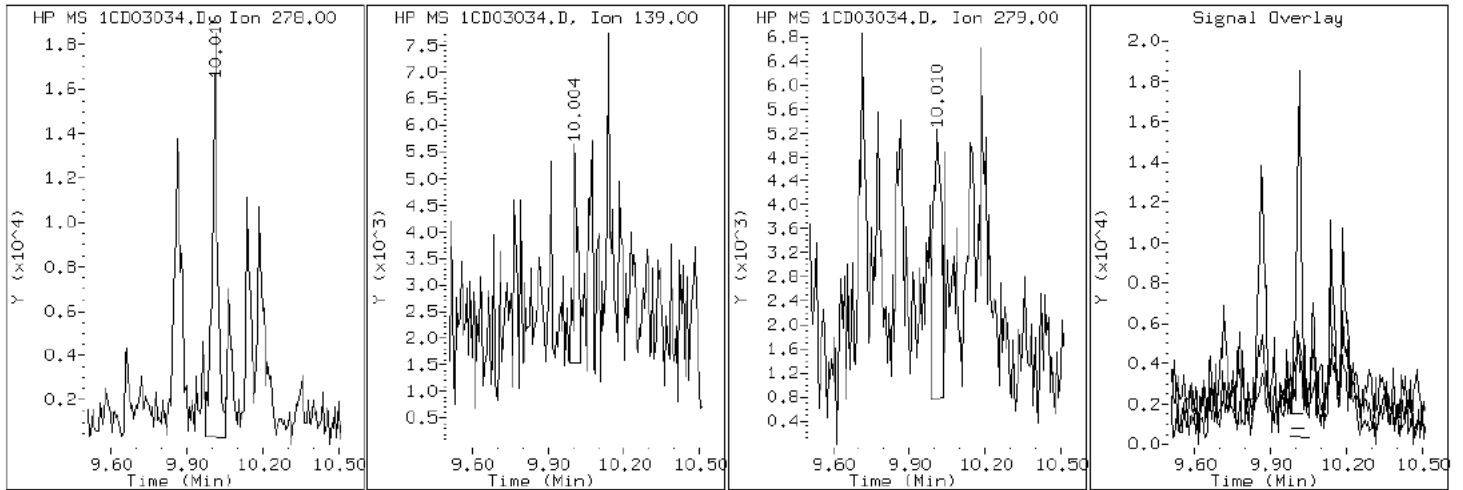
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

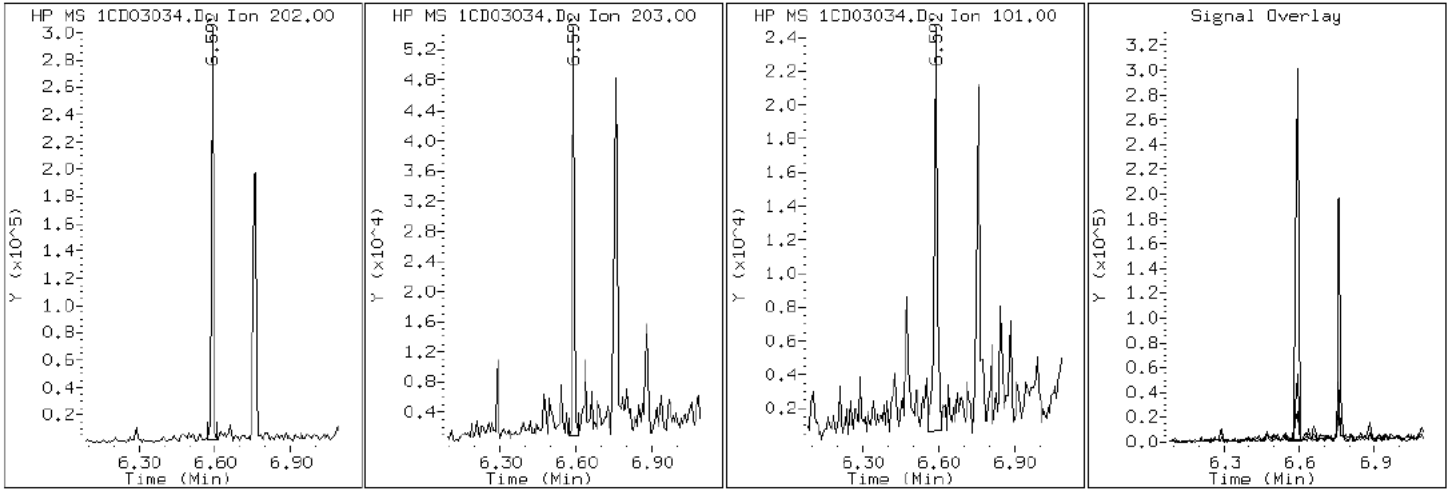
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

15 Fluoranthene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

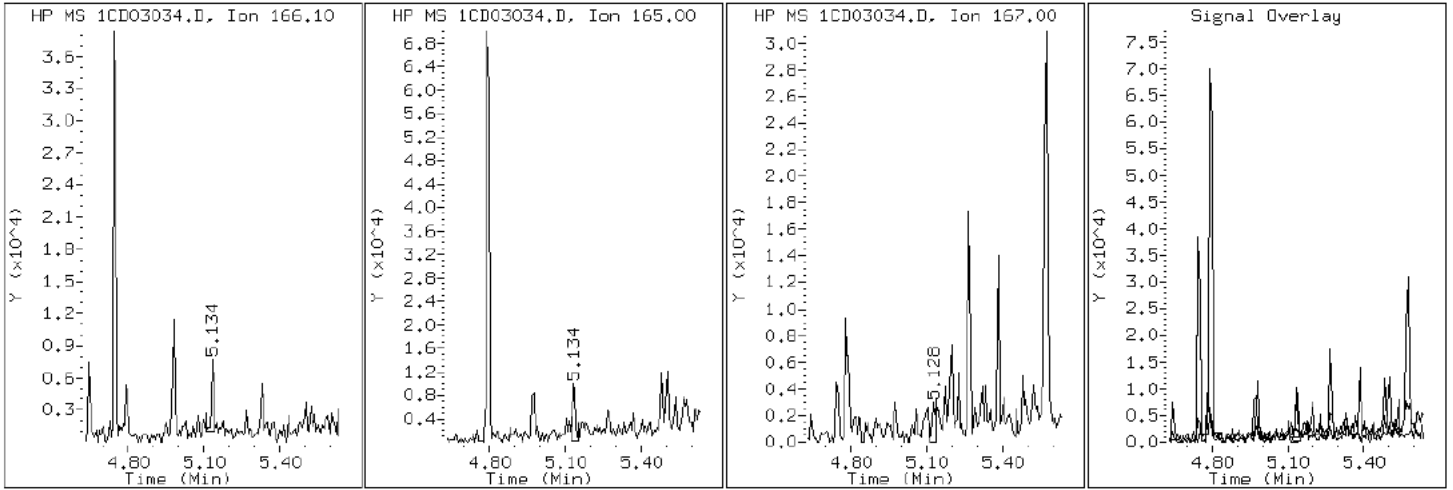
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

9 Fluorene





Data File: 1CD03034.D

Date: 03-APR-2013 21:21

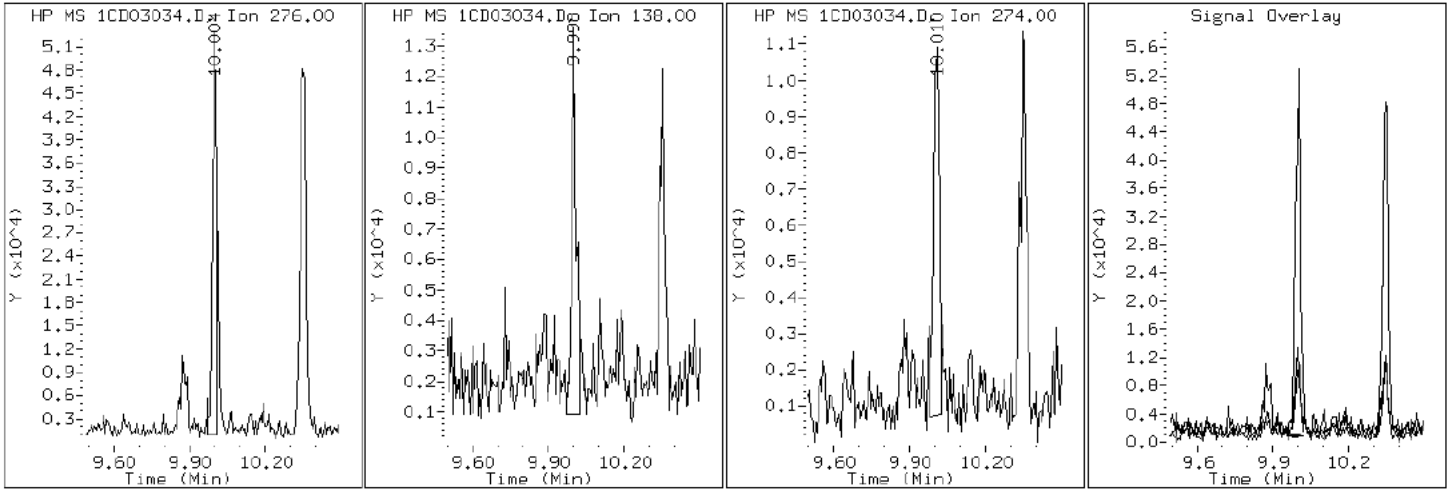
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

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



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

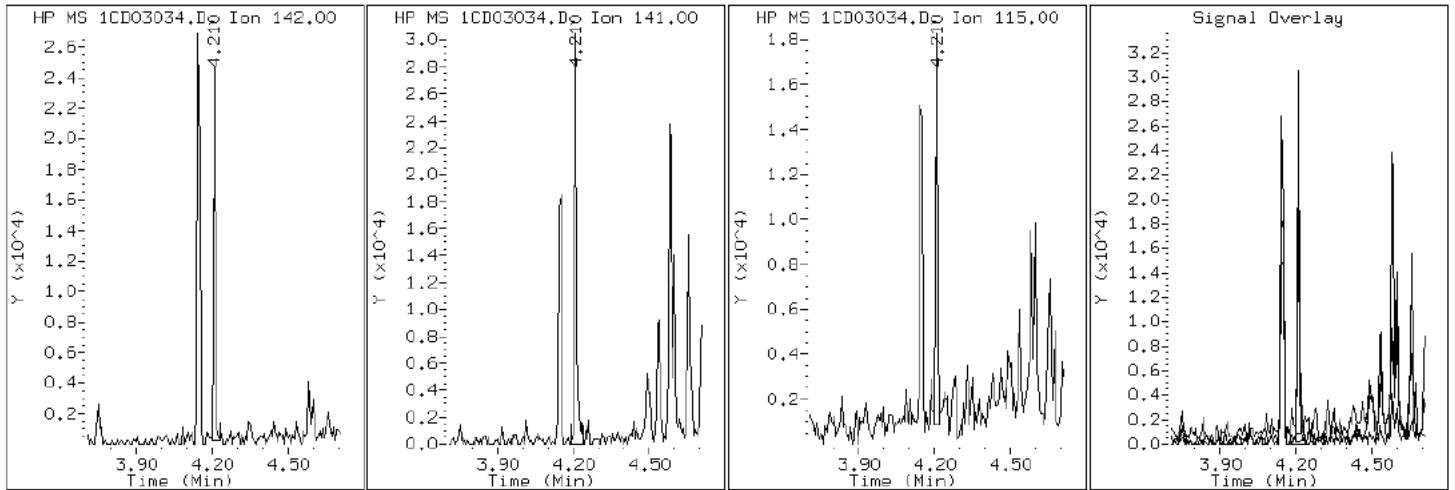
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

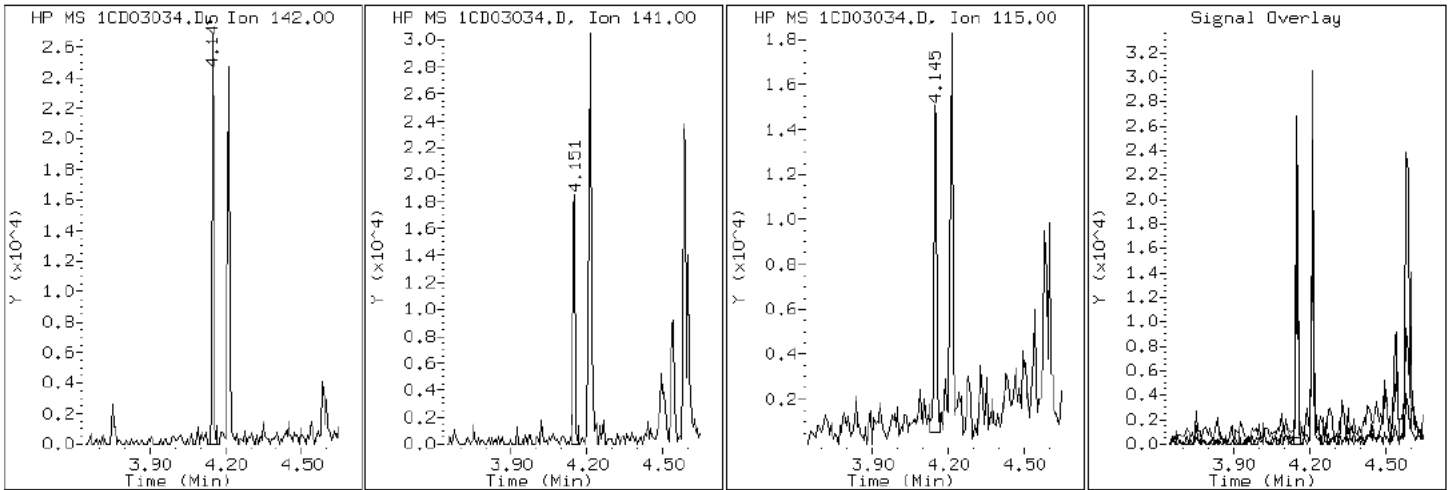
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

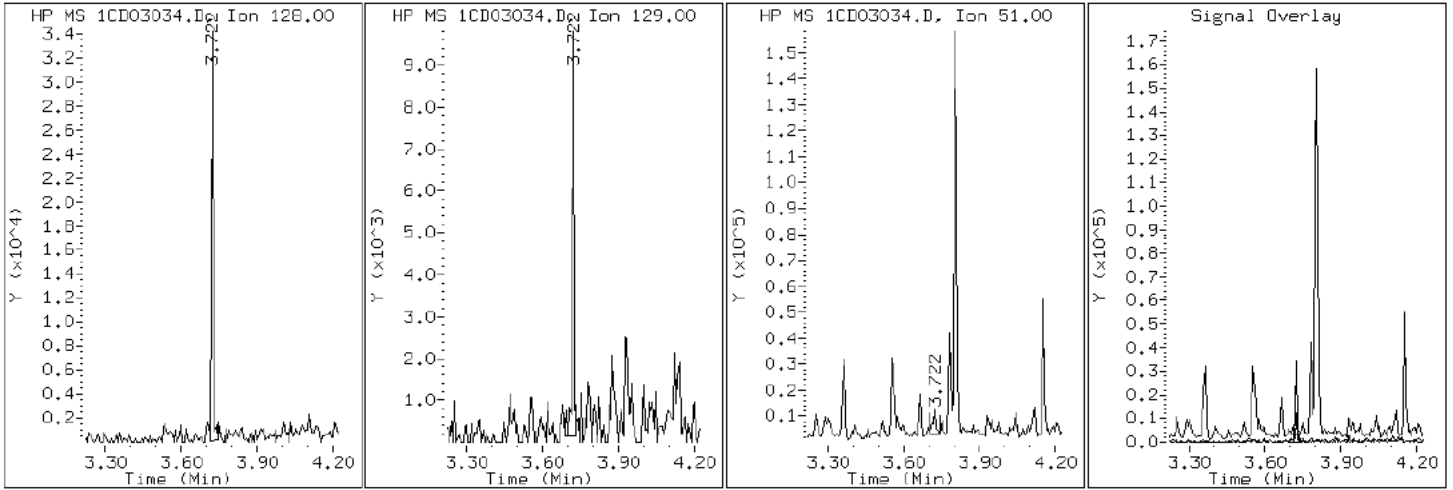
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

2 Naphthalene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

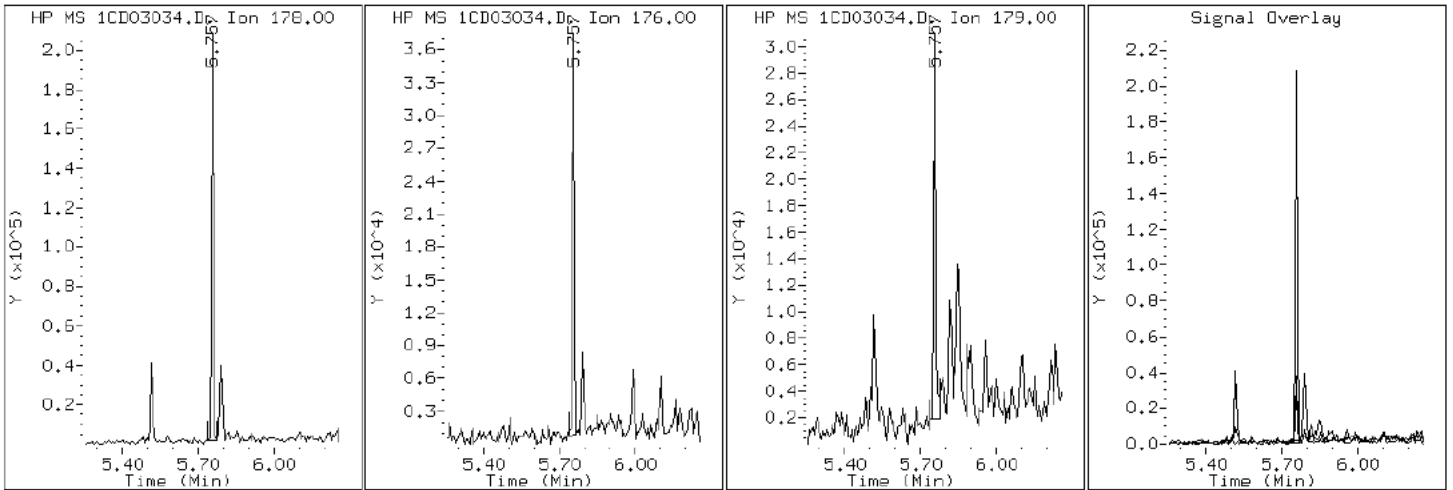
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

11 Phenanthrene



Data File: 1CD03034.D

Date: 03-APR-2013 21:21

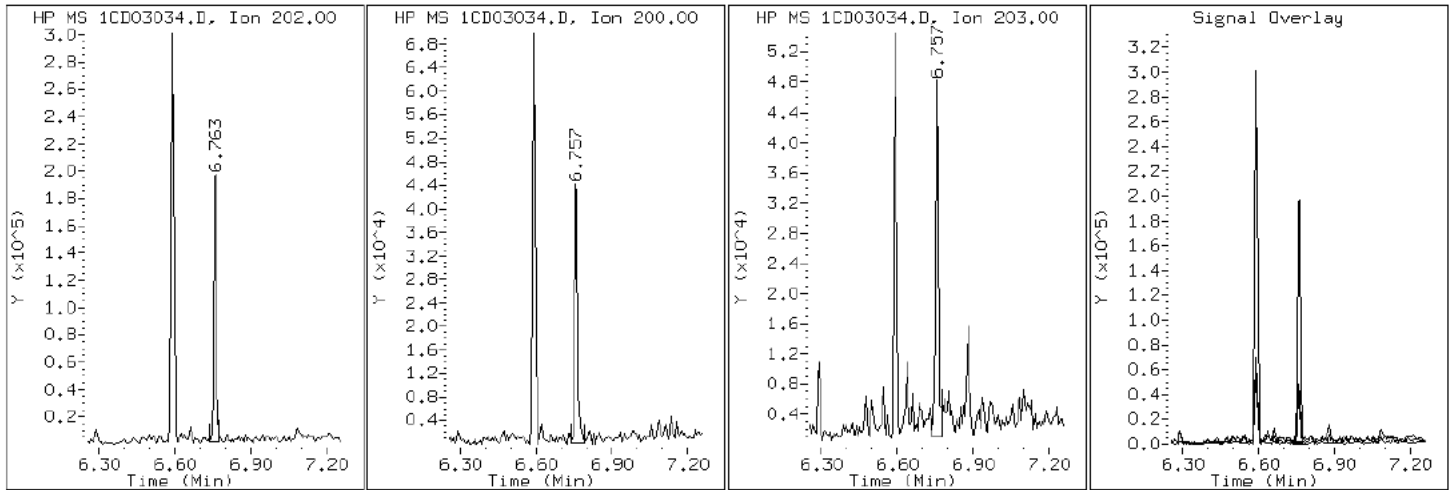
Client ID: CV0509C-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-10-b

Operator: SCC

16 Pyrene

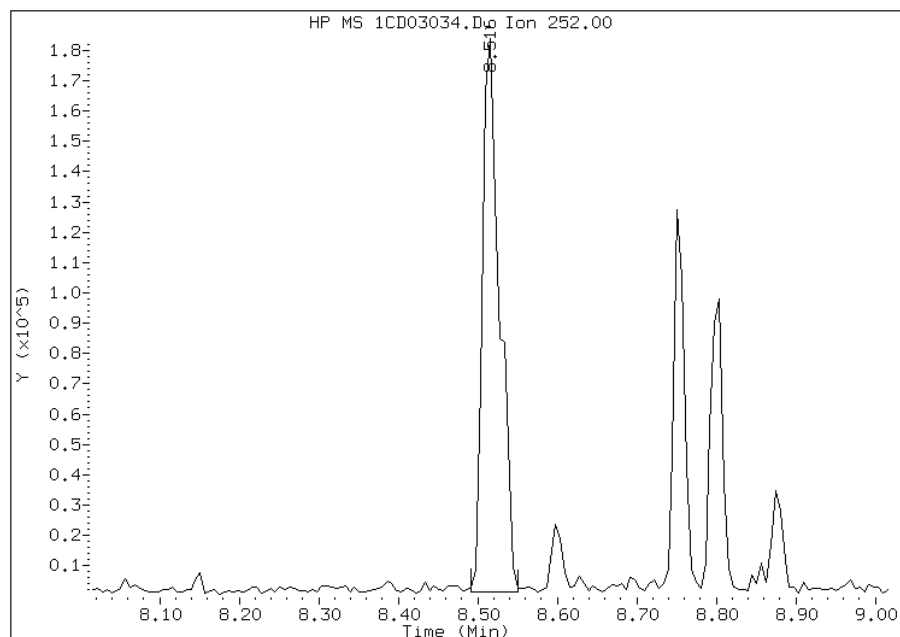


# Manual Integration Report

Data File: 1CD03034.D  
Inj. Date and Time: 03-APR-2013 21:21  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

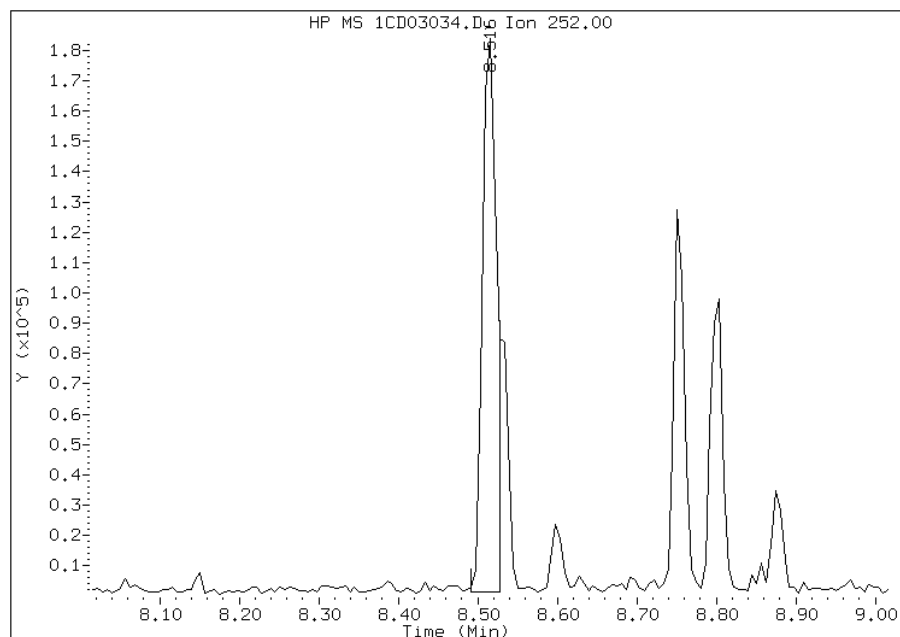
## Processing Integration Results

RT: 8.52  
Response: 270674  
Amount: 11  
Conc: 916



## Manual Integration Results

RT: 8.52  
Response: 224993  
Amount: 9  
Conc: 762



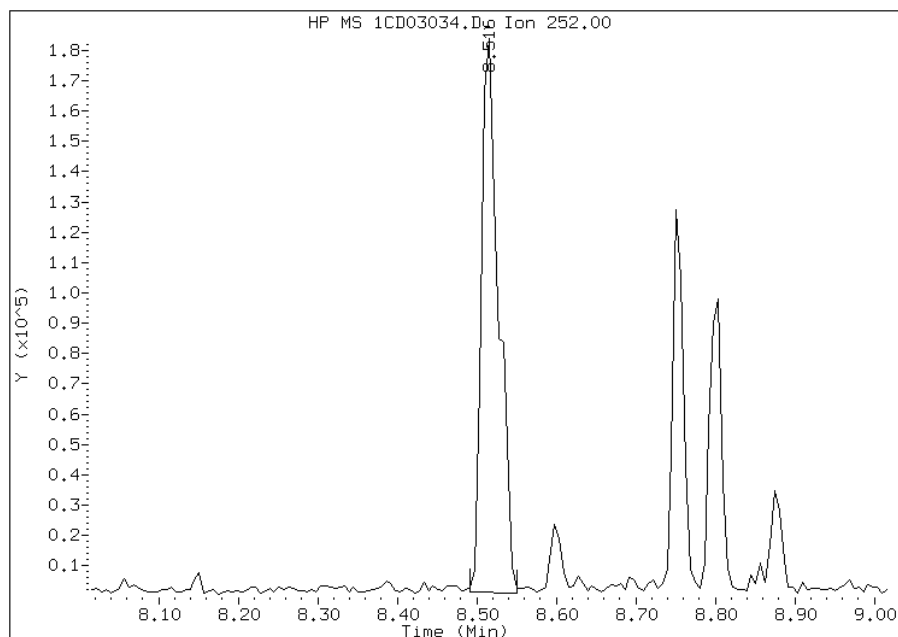
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:44  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD03034.D  
Inj. Date and Time: 03-APR-2013 21:21  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

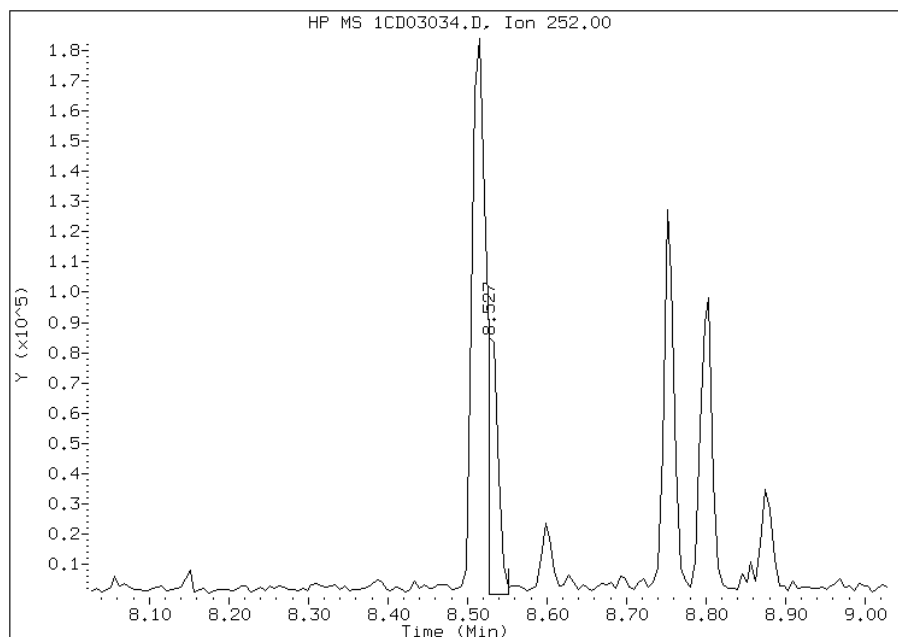
## Processing Integration Results

RT: 8.52  
Response: 271728  
Amount: 12  
Conc: 951



## Manual Integration Results

RT: 8.53  
Response: 77567  
Amount: 3  
Conc: 271



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:44  
Manual Integration Reason: Baseline Event

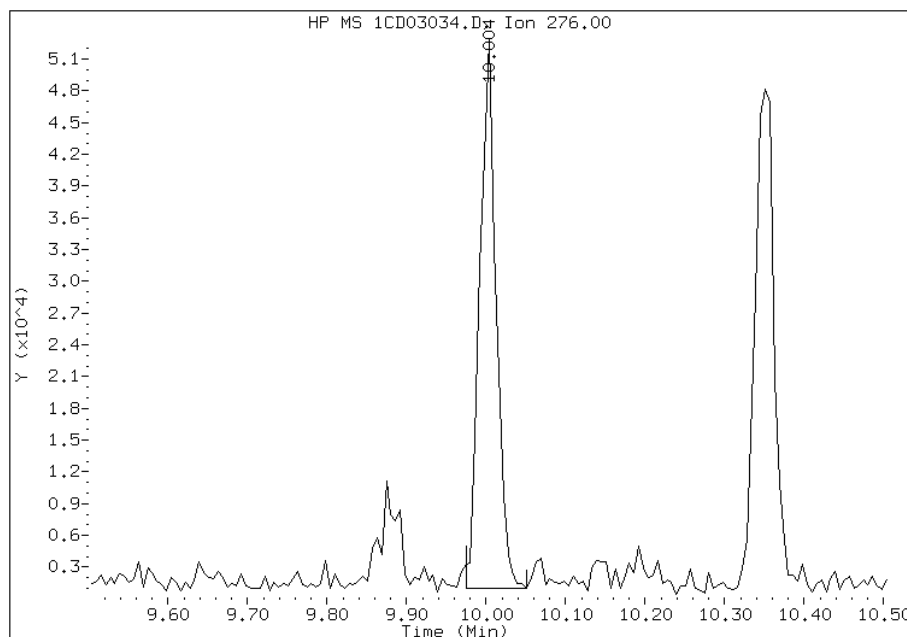


# Manual Integration Report

Data File: 1CD03034.D  
Inj. Date and Time: 03-APR-2013 21:21  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

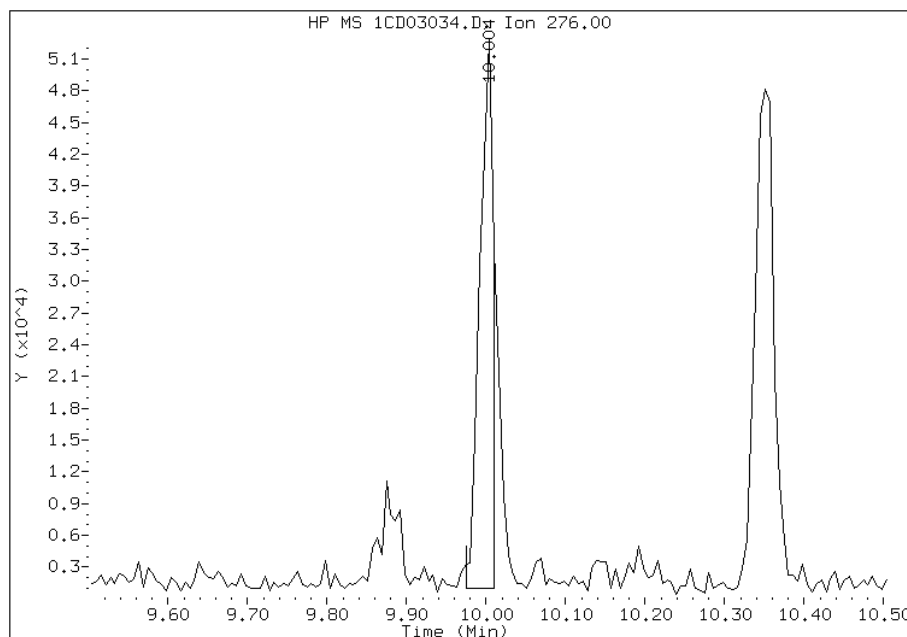
## Processing Integration Results

RT: 10.00  
Response: 73764  
Amount: 3  
Conc: 279



## Manual Integration Results

RT: 10.00  
Response: 61429  
Amount: 3  
Conc: 233



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 10:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509C-CSD Lab Sample ID: 680-88767-11  
 Matrix: Solid Lab File ID: 1CD04022.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:25  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 14.97(g) Date Analyzed: 04/04/2013 17:38  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 35.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	64		62	7.8
120-12-7	Anthracene	74		13	6.5
56-55-3	Benzo[a]anthracene	350		12	6.1
50-32-8	Benzo[a]pyrene	260		16	8.1
205-99-2	Benzo[b]fluoranthene	500		19	9.5
191-24-2	Benzo[g,h,i]perylene	190		31	6.9
207-08-9	Benzo[k]fluoranthene	190		12	5.6
218-01-9	Chrysene	380		14	7.0
53-70-3	Dibenz(a,h)anthracene	58		31	6.4
206-44-0	Fluoranthene	600		31	6.2
86-73-7	Fluorene	29	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	180		31	11
90-12-0	1-Methylnaphthalene	67		62	6.9
91-57-6	2-Methylnaphthalene	99		62	11
91-20-3	Naphthalene	78		62	6.9
85-01-8	Phenanthrene	310		12	6.1
129-00-0	Pyrene	490		31	5.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04022.D  
 Lab Smp Id: 680-88767-A-11-A Client Smp ID: CV0509C-CSD  
 Inj Date : 04-APR-2013 17:38  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-11-a  
 Misc Info : 680-88767-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 22  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	35.747	% 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)	464857	40.0000		
* 6 Acenaphthene-d10	164		4.780	4.786	(1.000)	363864	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	744590	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	65768	6.13683	638.0077	
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	860522	40.0000		
* 23 Perylene-d12	264		8.862	8.886	(1.000)	832648	40.0000		
2 Naphthalene	128		3.710	3.710	(1.005)	8958	0.75027	78.0005(Q)	
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	7720	0.94985	98.7502	
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	4692	0.64158	66.7007	
5 Acenaphthylene	152		4.698	4.698	(0.983)	9317	0.61868	64.3204	
9 Fluorene	166		5.122	5.127	(1.071)	3498	0.28132	29.2470(Q)	
11 Phenanthrene	178		5.751	5.751	(1.003)	65062	3.00020	311.9117	
12 Anthracene	178		5.780	5.786	(1.008)	15567	0.70813	73.6201	
13 Carbazole	167		5.892	5.898	(1.028)	9445	0.50149	52.1365	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.586	6.592	(1.149)	139316	5.81710	604.7683
16 Pyrene	202	6.757	6.763	(0.880)	112295	4.71093	489.7661
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	80882	3.37953	351.3487
19 Chrysene	228	7.704	7.710	(1.003)	90596	3.69461	384.1058
20 Benzo(b)fluoranthene	252	8.515	8.533	(0.961)	114129	4.84837	504.0549(M)
21 Benzo(k)fluoranthene	252	8.533	8.557	(0.963)	42234	1.85505	192.8575(QM)
22 Benzo(a)pyrene	252	8.810	8.827	(0.994)	56236	2.53749	263.8072
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056	(1.130)	37017	1.75855	182.8254(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.074	(1.132)	10793	0.55505	57.7053
26 Benzo(g,h,i)perylene	276	10.362	10.415	(1.169)	39414	1.83459	190.7313

QC Flag Legend

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

Data File: 1CD04022.D

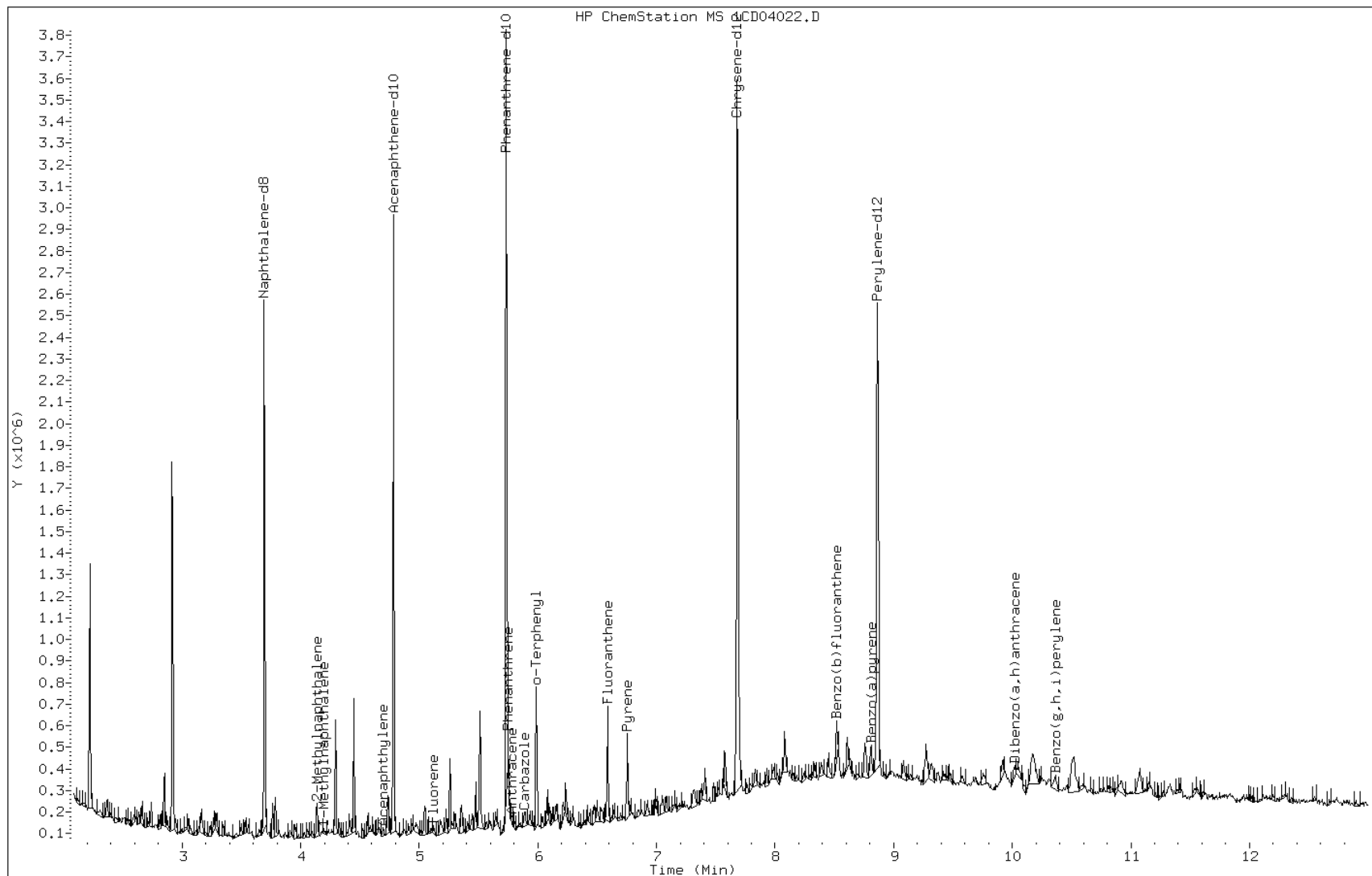
Date: 04-APR-2013 17:38

Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

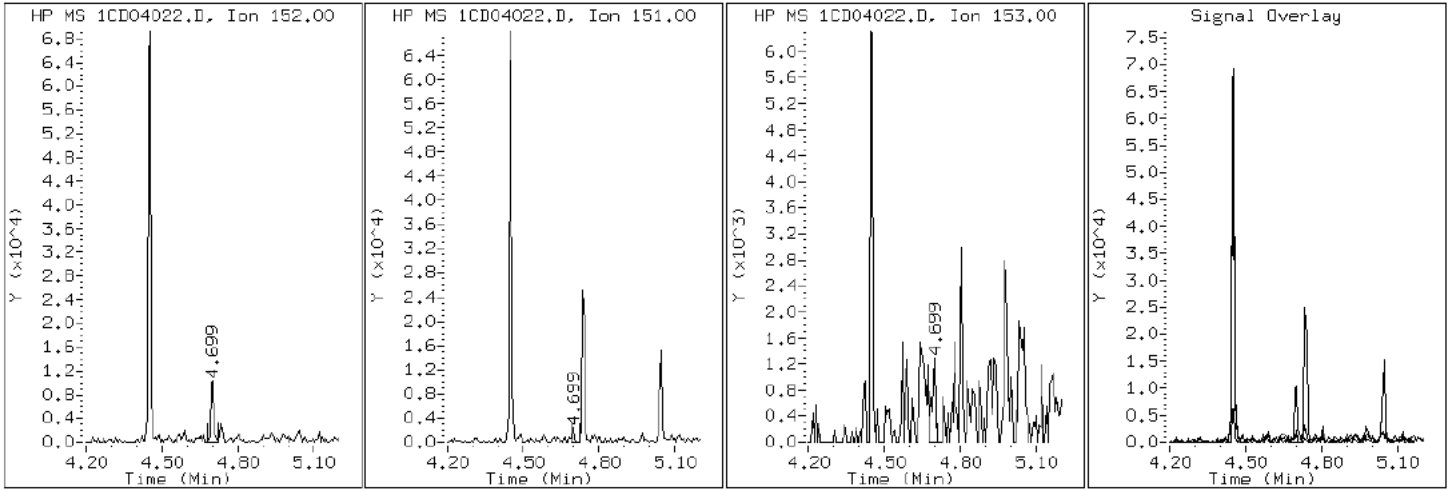
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

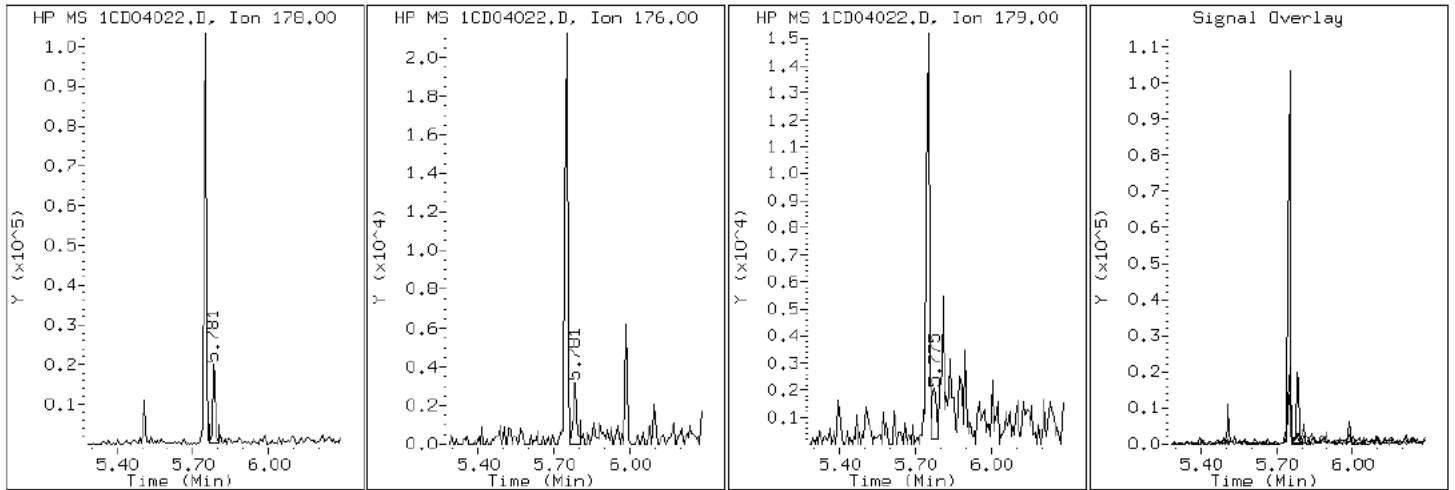
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

12 Anthracene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

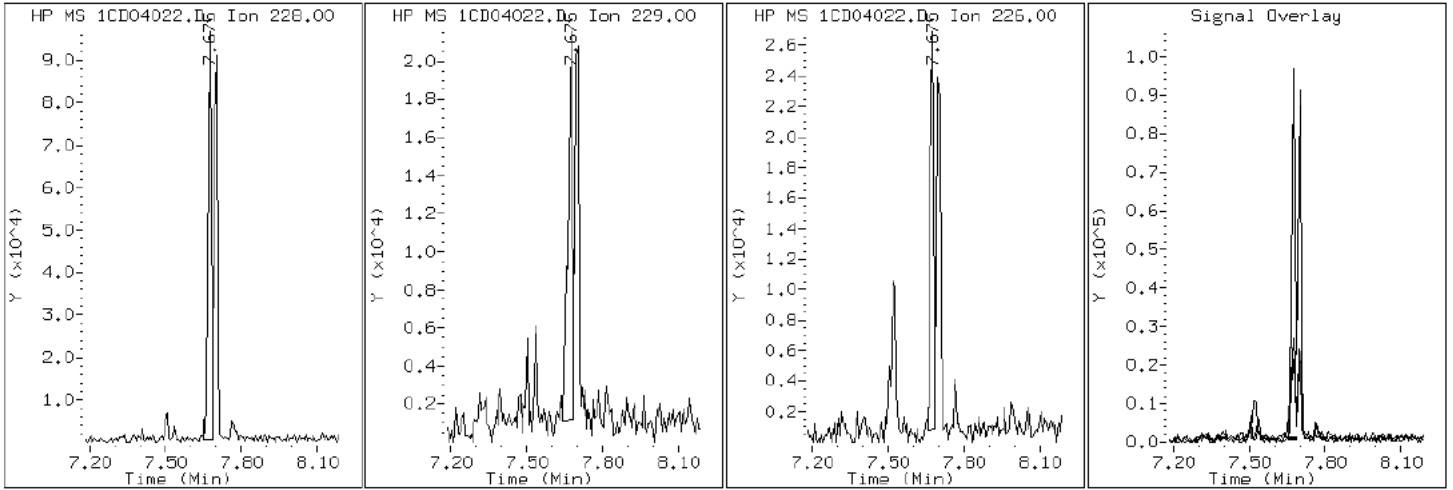
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD04022.D

Date: 04-APR-2013 17:38

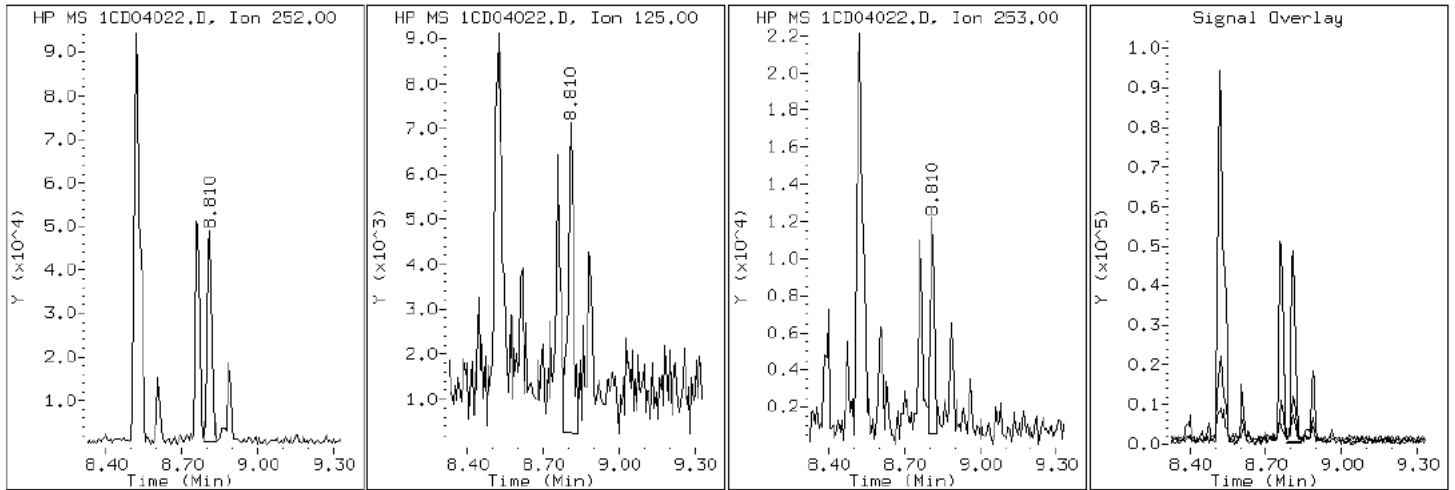
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

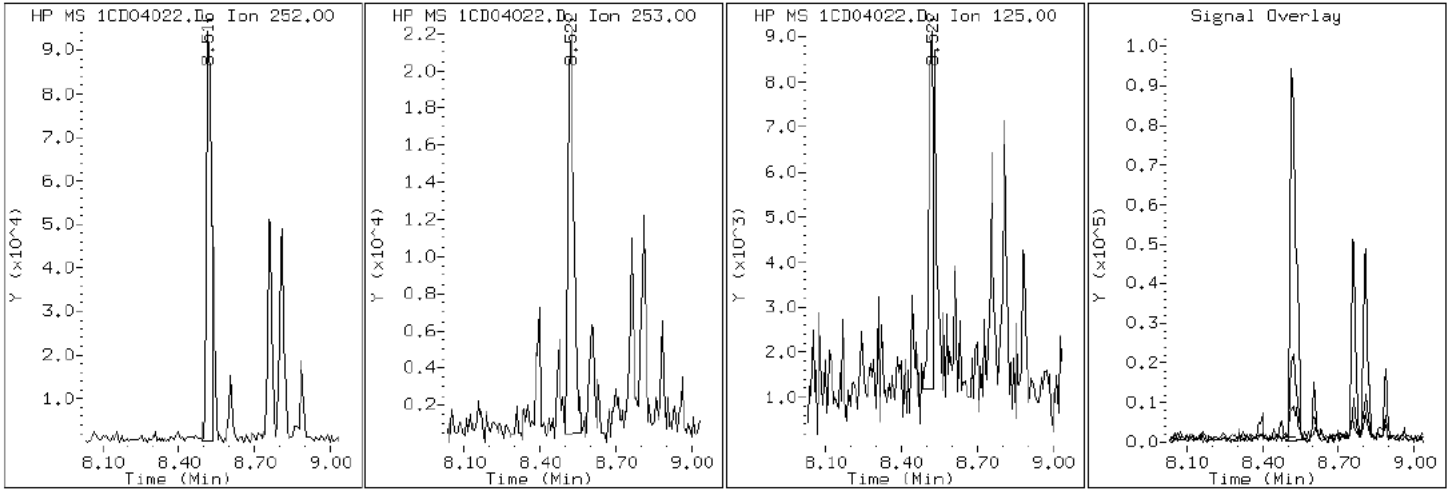
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

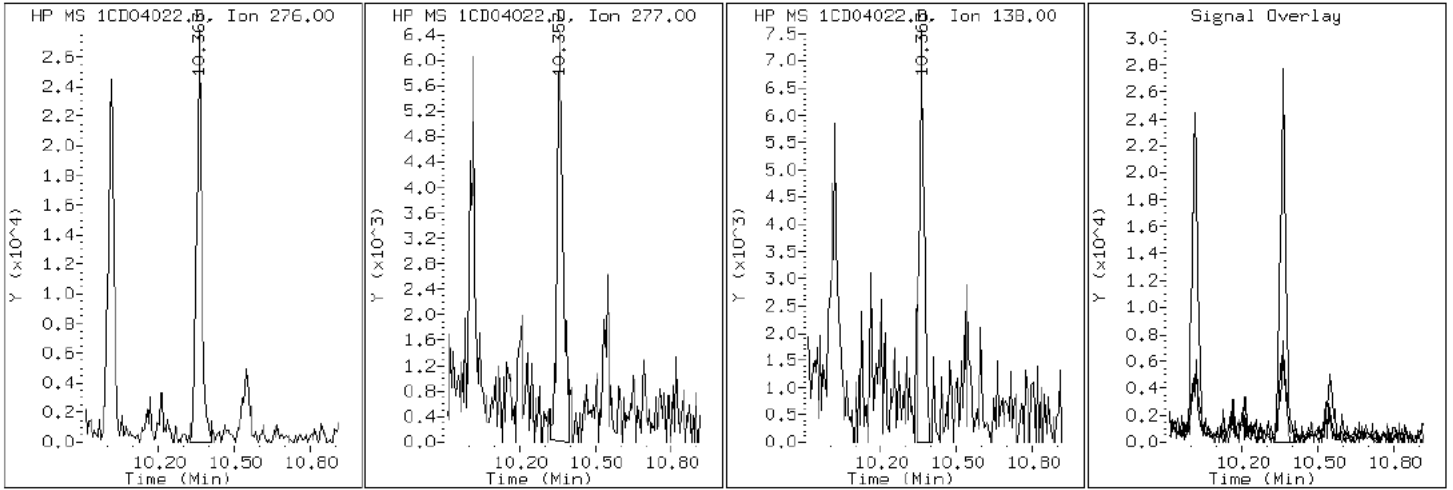
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

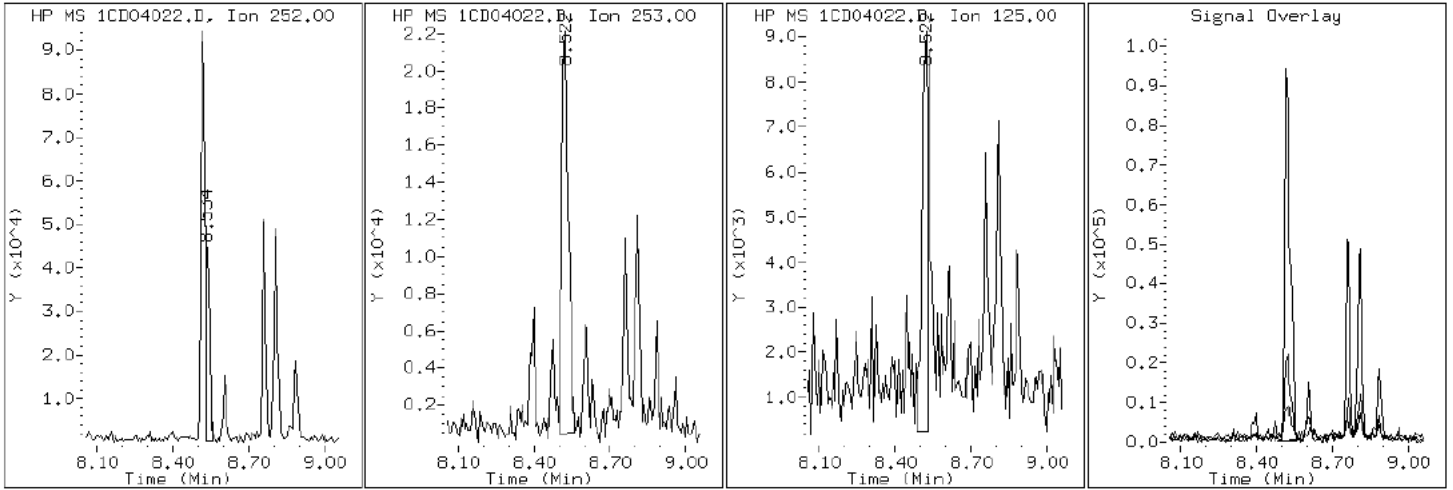
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

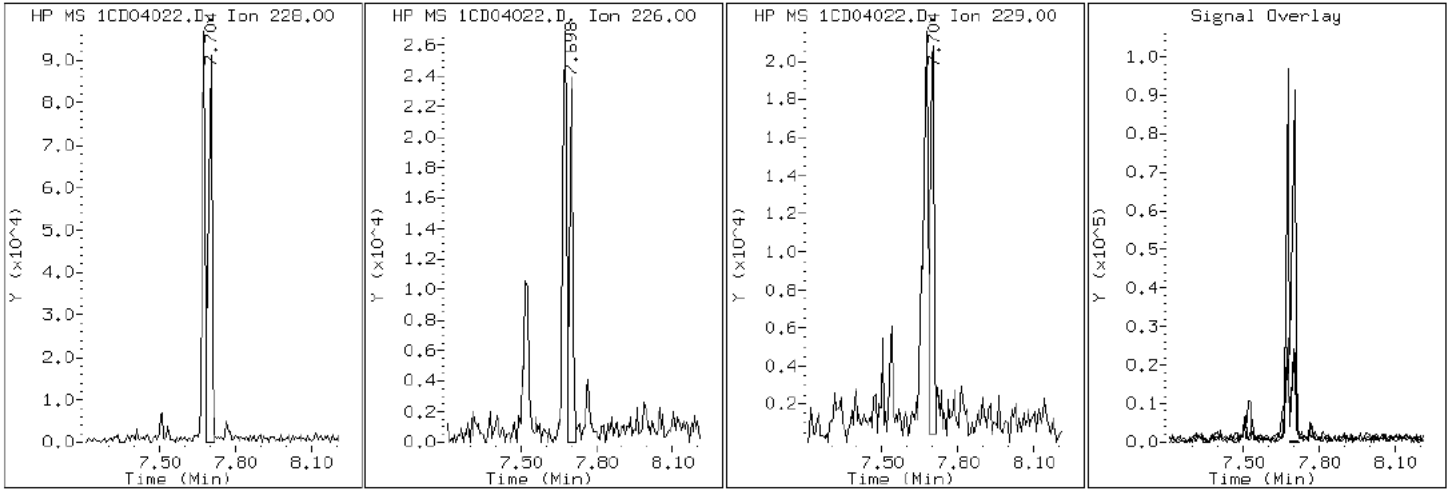
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

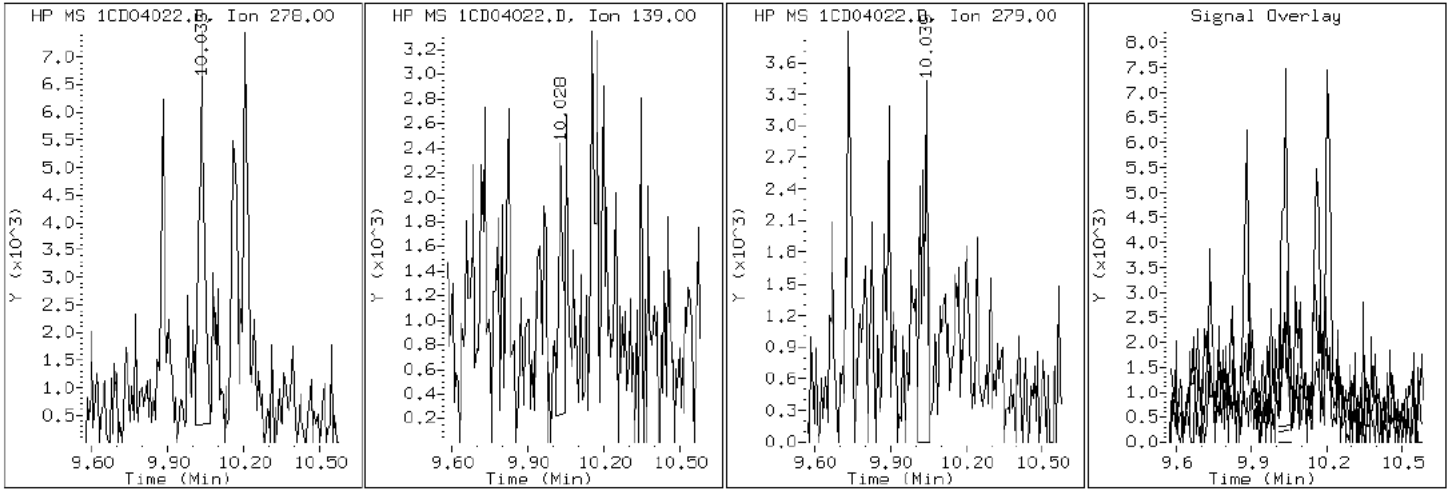
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

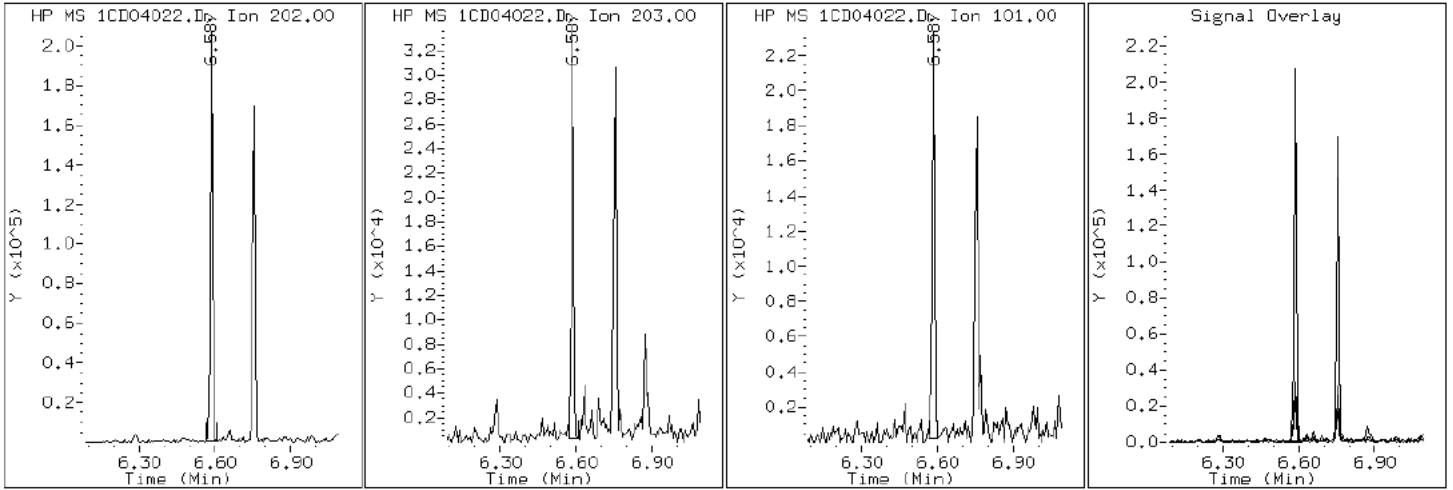
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

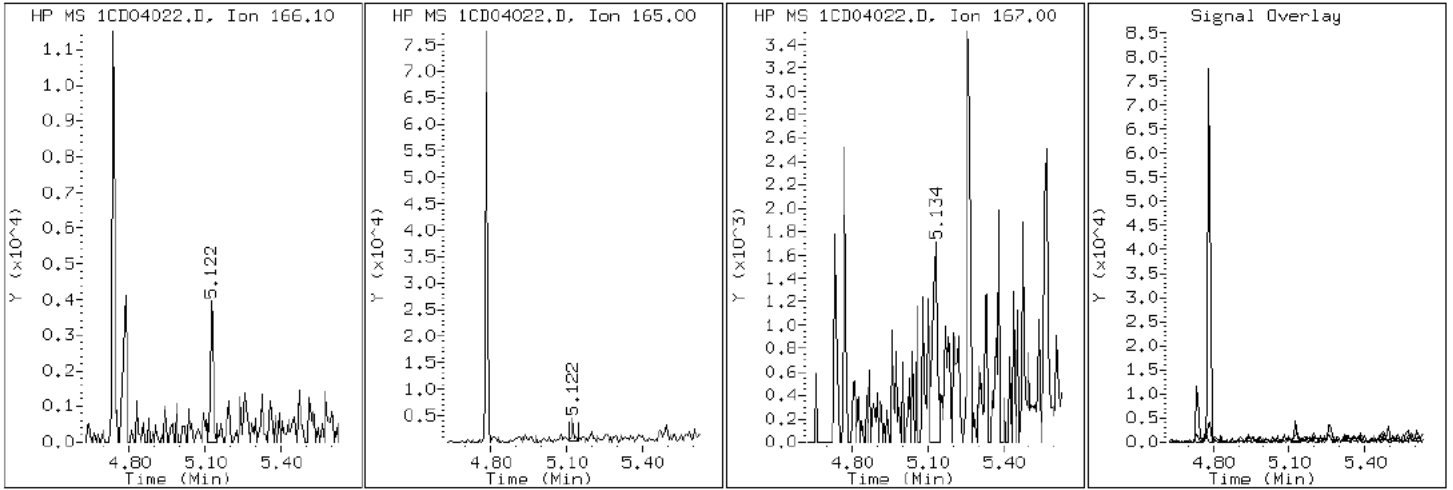
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

9 Fluorene





Data File: 1CD04022.D

Date: 04-APR-2013 17:38

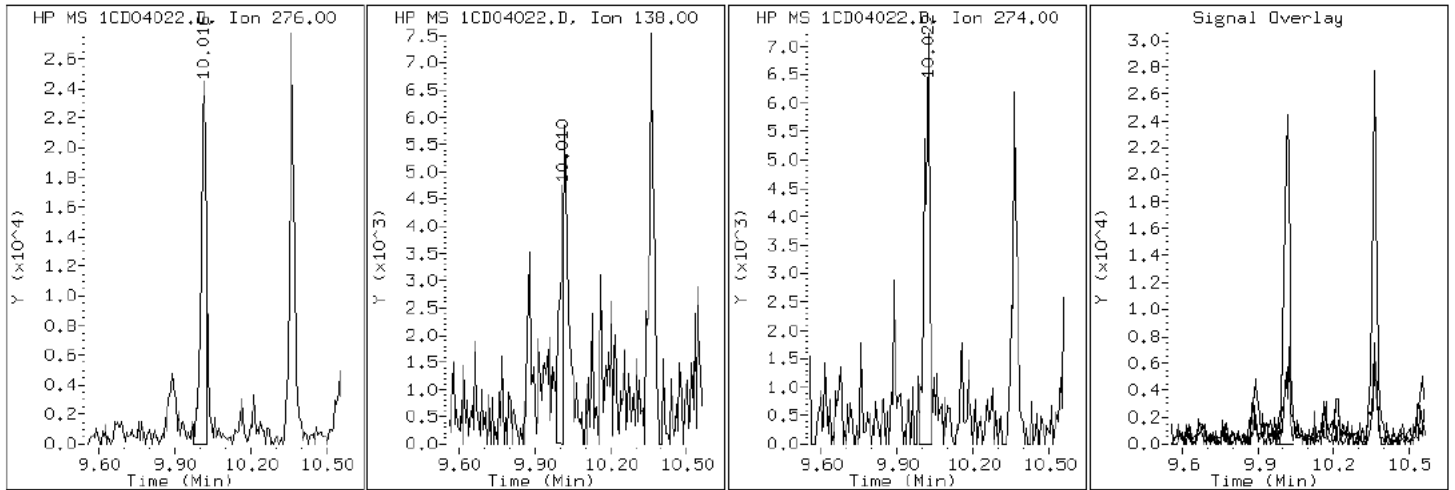
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

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



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

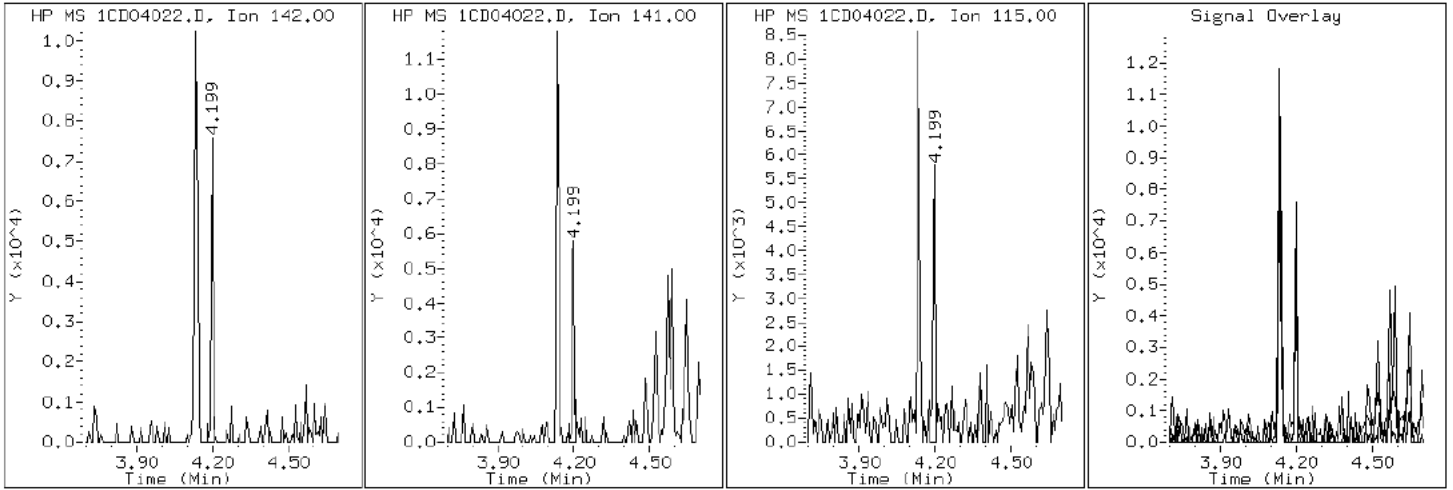
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

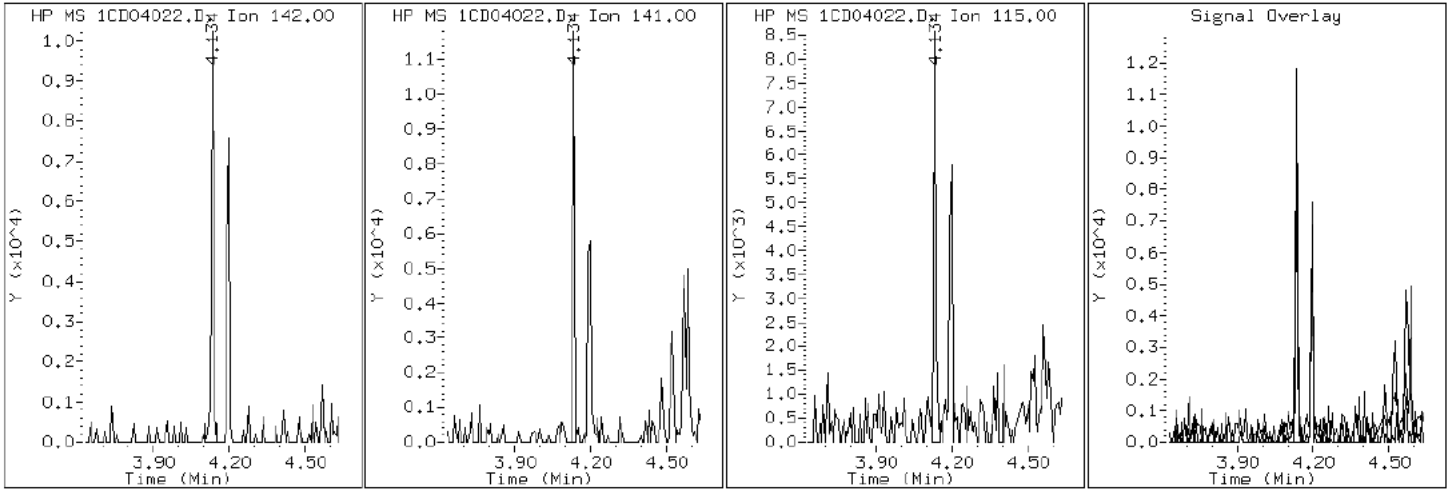
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

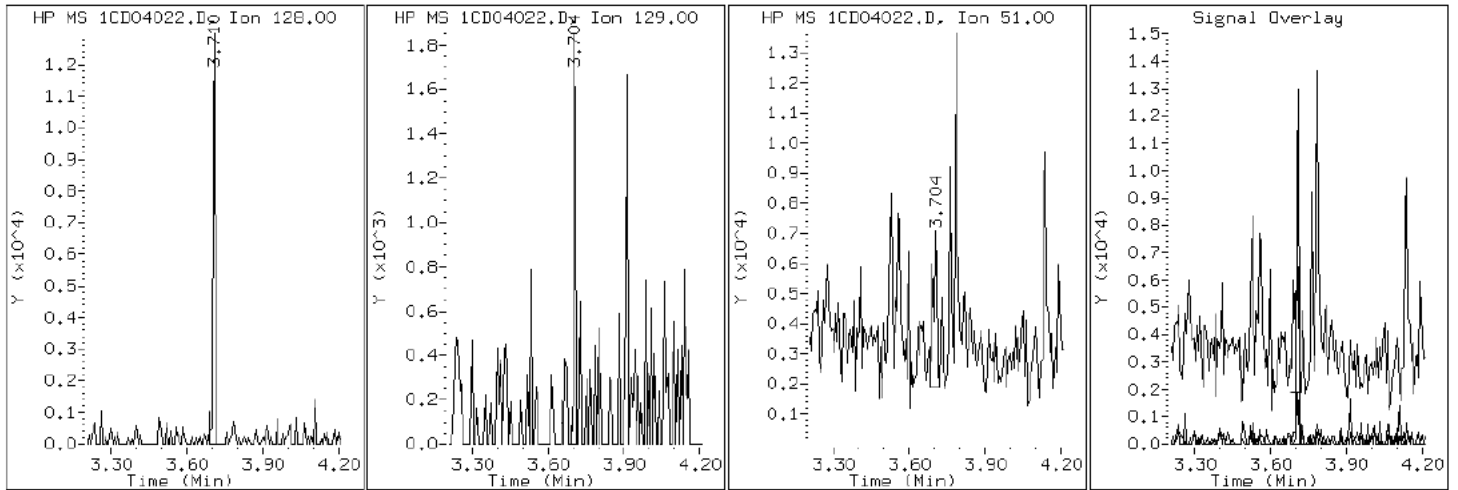
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

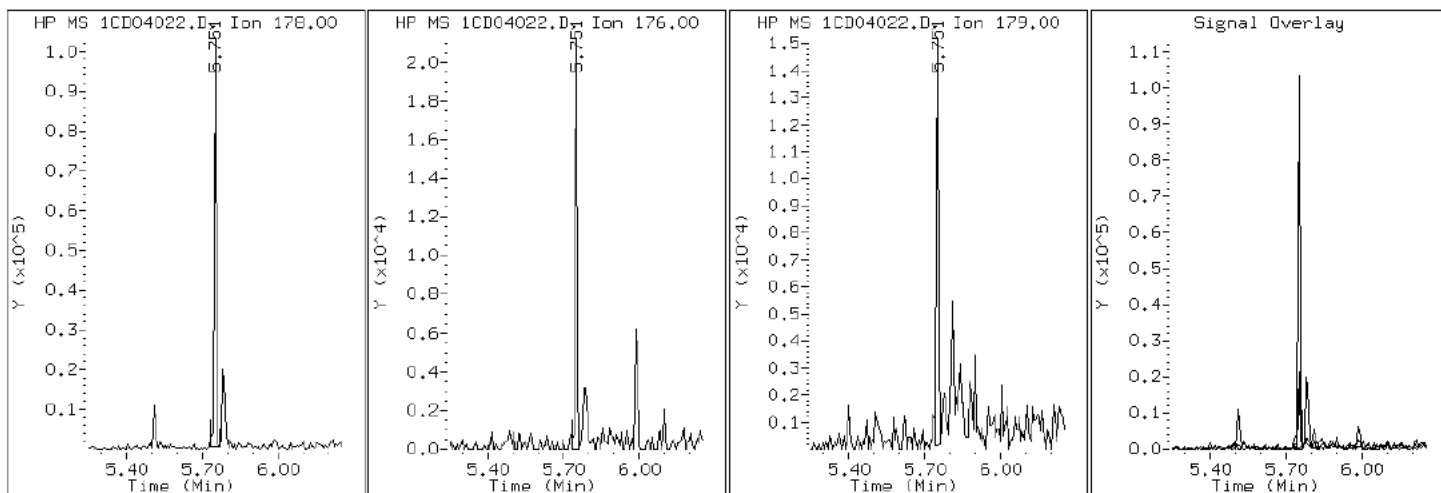
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04022.D

Date: 04-APR-2013 17:38

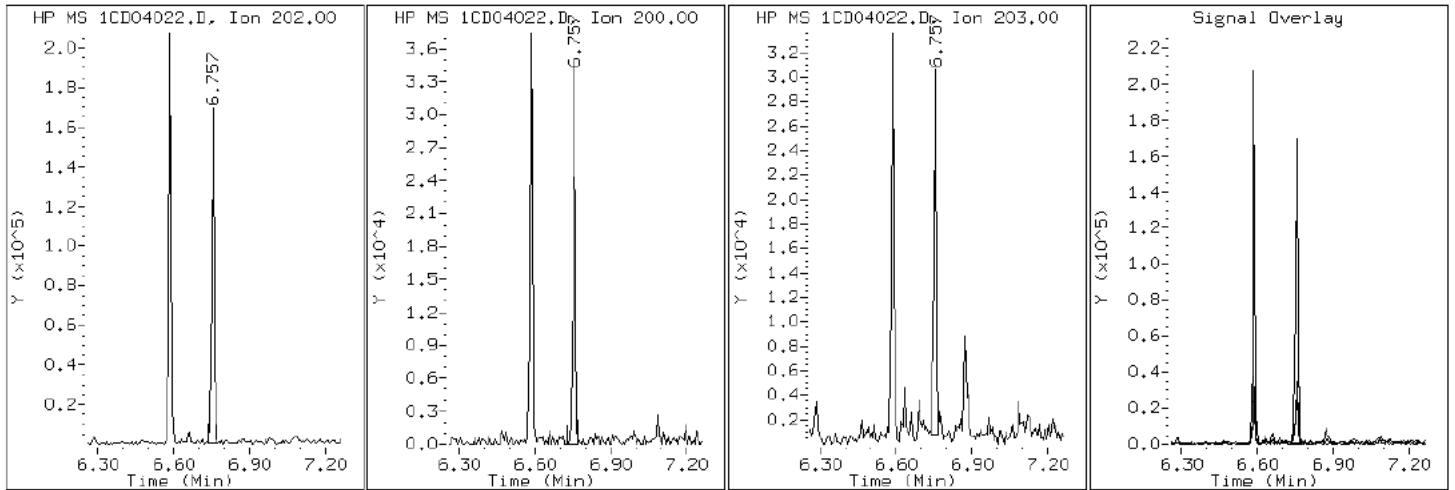
Client ID: CV0509C-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-11-a

Operator: SCC

16 Pyrene

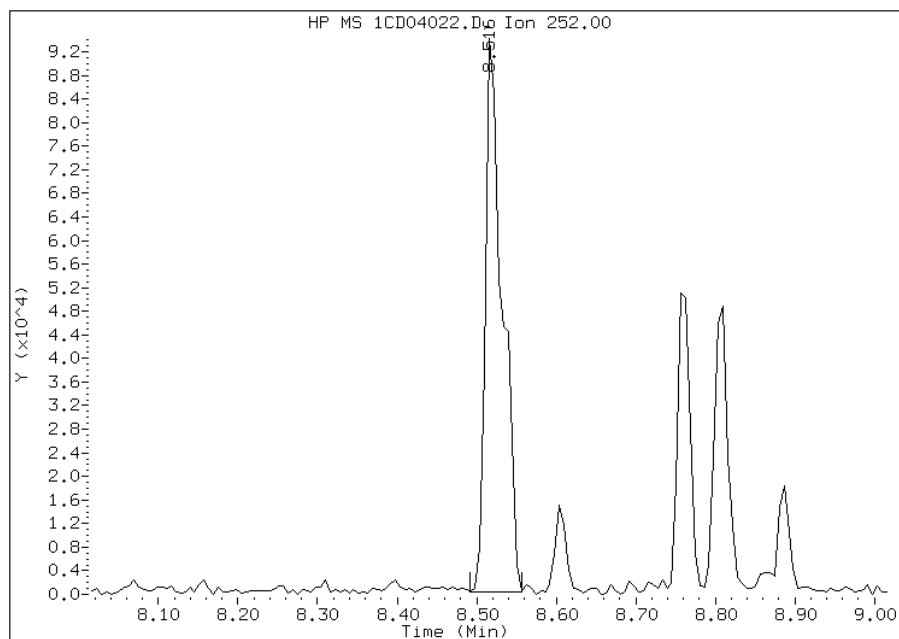


# Manual Integration Report

Data File: 1CD04022.D  
Inj. Date and Time: 04-APR-2013 17:38  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

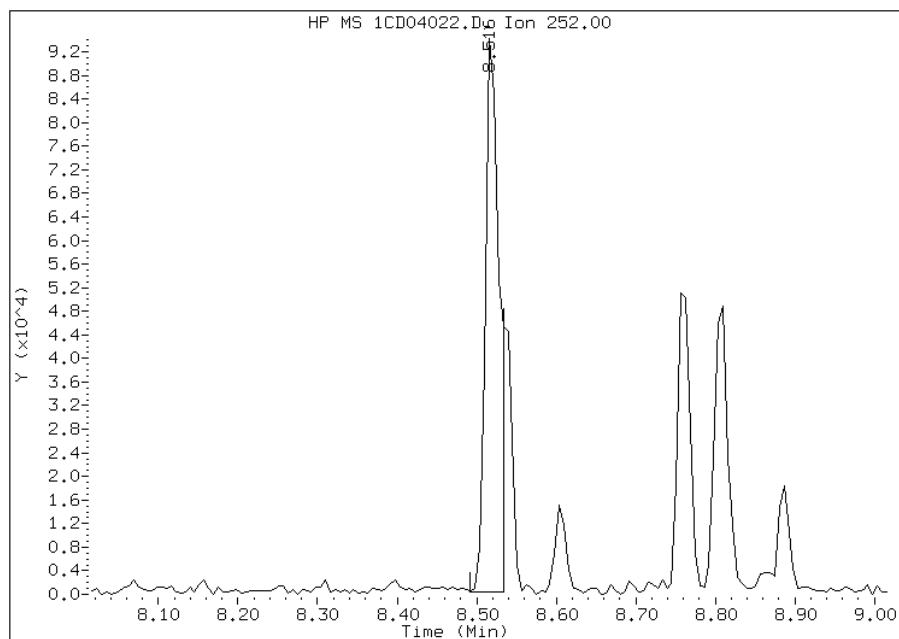
## Processing Integration Results

RT: 8.52  
Response: 140538  
Amount: 6  
Conc: 621



## Manual Integration Results

RT: 8.52  
Response: 114129  
Amount: 5  
Conc: 504



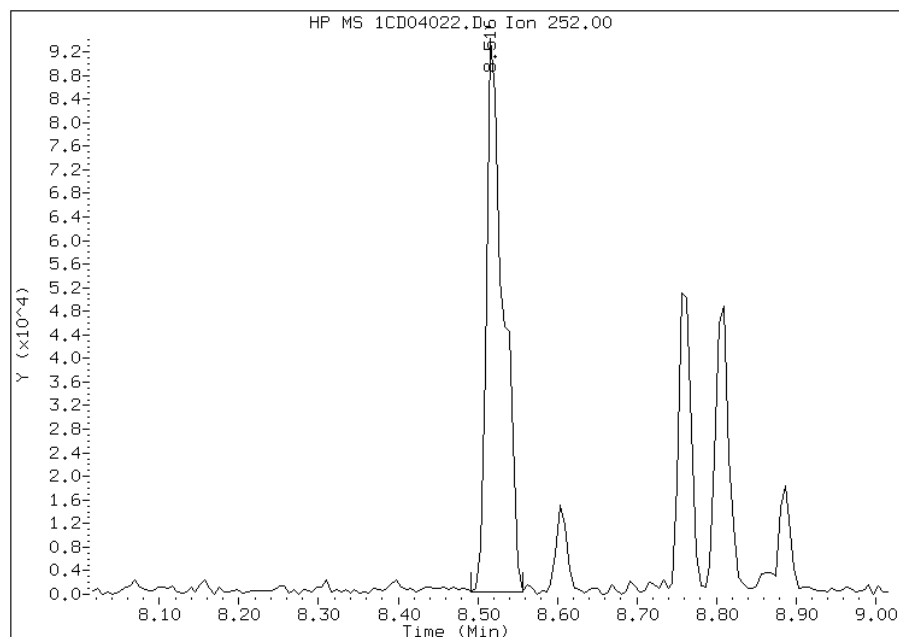
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:40  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04022.D  
Inj. Date and Time: 04-APR-2013 17:38  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

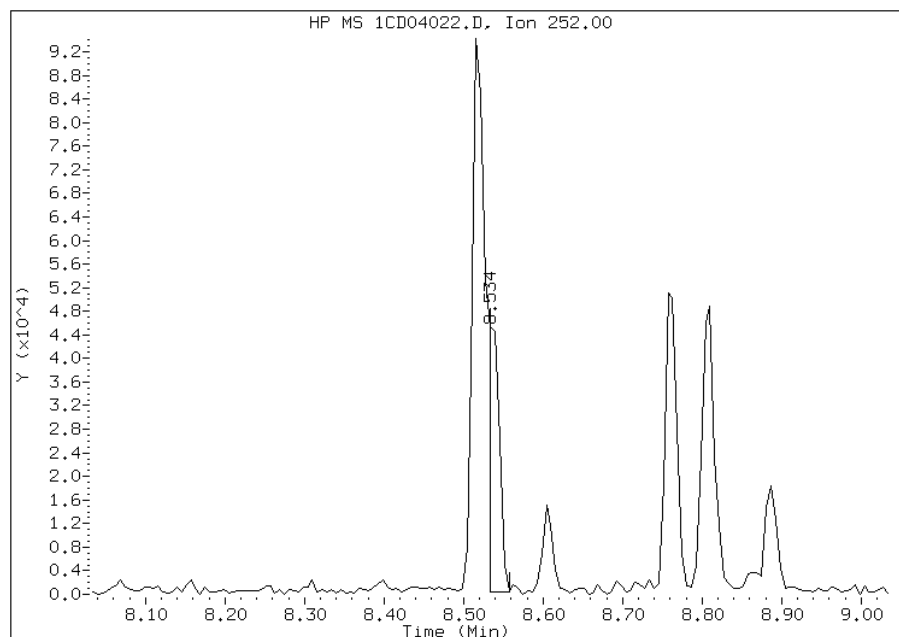
## Processing Integration Results

RT: 8.52  
Response: 140538  
Amount: 6  
Conc: 642



## Manual Integration Results

RT: 8.53  
Response: 42234  
Amount: 2  
Conc: 193



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:40  
Manual Integration Reason: Baseline Event

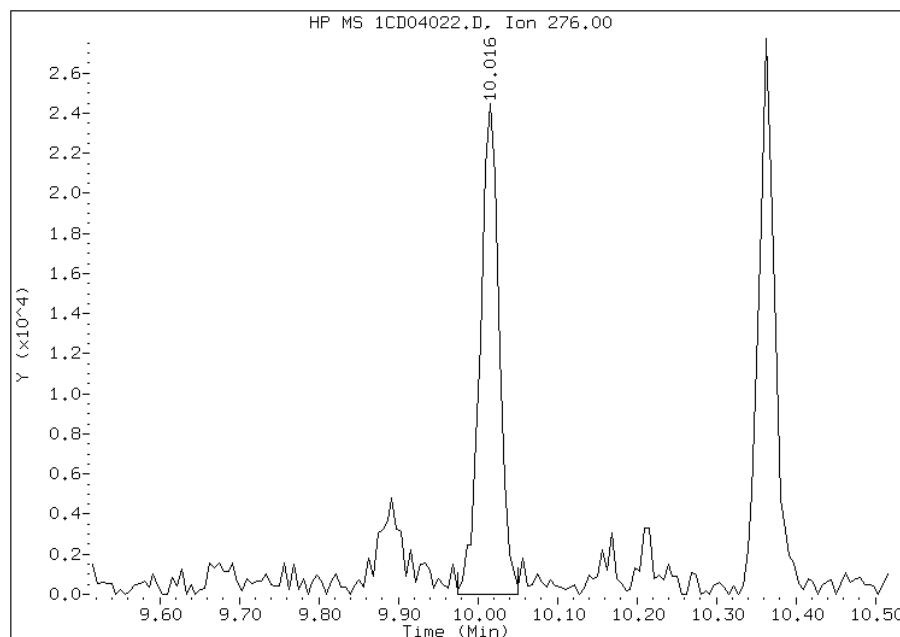


# Manual Integration Report

Data File: 1CD04022.D  
Inj. Date and Time: 04-APR-2013 17:38  
Instrument ID: BSMC5973.i  
Client ID: CV0509C-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

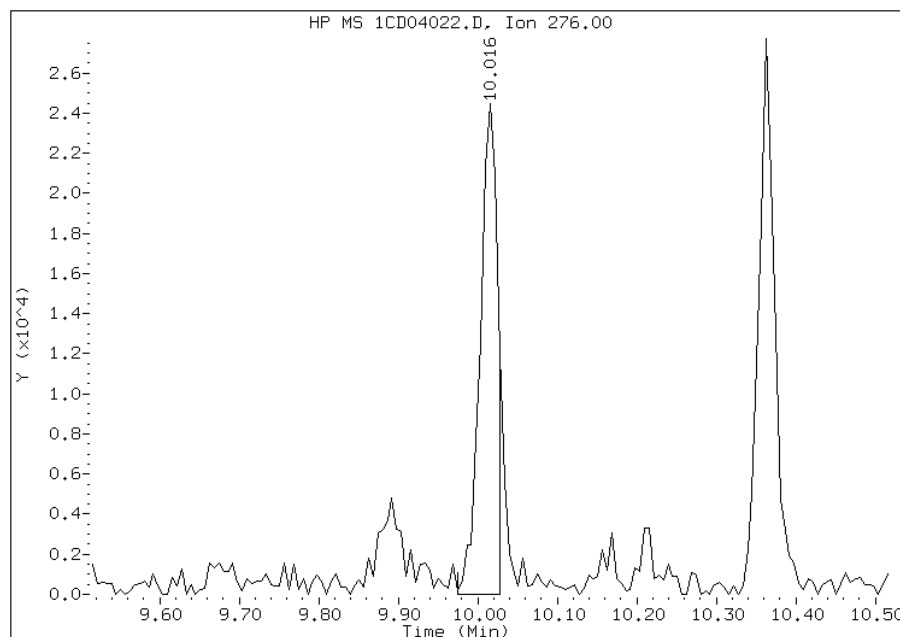
## Processing Integration Results

RT: 10.02  
Response: 40307  
Amount: 2  
Conc: 199



## Manual Integration Results

RT: 10.02  
Response: 37017  
Amount: 2  
Conc: 183



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:40  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509D-CS Lab Sample ID: 680-88767-12  
 Matrix: Solid Lab File ID: 1CD04023.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:38  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.38(g) Date Analyzed: 04/04/2013 17:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 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	450		47	23
50-32-8	Benzo[a]pyrene	330		61	31
205-99-2	Benzo[b]fluoranthene	530		72	36
191-24-2	Benzo[g,h,i]perylene	230		120	26
207-08-9	Benzo[k]fluoranthene	120		47	21
218-01-9	Chrysene	360		53	27
53-70-3	Dibenz(a,h)anthracene	62	J	120	24
206-44-0	Fluoranthene	570		120	24
86-73-7	Fluorene	120	U	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	180		120	42
90-12-0	1-Methylnaphthalene	190	J	240	26
91-57-6	2-Methylnaphthalene	330		240	42
91-20-3	Naphthalene	140	J	240	26
85-01-8	Phenanthrene	300		47	23
129-00-0	Pyrene	470		120	22

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\1CD04023.D  
 Lab Smp Id: 680-88767-A-12-A Client Smp ID: CV0509D-CS  
 Inj Date : 04-APR-2013 17:57  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-12-a  
 Misc Info : 680-88767-A-12-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 23  
 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	15.380	Weight Extracted
M	33.943	% 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)	479125	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.786	(1.000)	359214	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	701463	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	20326	2.50064	984.5490
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	816807	40.0000	
* 23 Perylene-d12	264		8.862	8.886	(1.000)	786904	40.0000	
2 Naphthalene	128		3.710	3.710	(1.005)	4448	0.36144	142.3067
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	7103	0.84791	333.8384
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	3631	0.48171	189.6585(Q)
11 Phenanthrene	178		5.751	5.751	(1.003)	15696	0.76829	302.4885
12 Anthracene	178		5.780	5.786	(1.008)	3566	0.17219	67.7936
13 Carbazole	167		5.892	5.898	(1.028)	2196	0.12377	48.7291(Q)
15 Fluoranthene	202		6.586	6.592	(1.149)	32393	1.43572	565.2686
16 Pyrene	202		6.756	6.763	(0.880)	27280	1.20568	474.6991

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228		7.674	7.686	(0.999)	24085	1.15329	454.0724
19 Chrysene	228		7.703	7.710	(1.003)	21357	0.91758	361.2666
20 Benzo(b)fluoranthene	252		8.515	8.533	(0.961)	30002	1.34862	530.9761(M)
21 Benzo(k)fluoranthene	252		8.539	8.557	(0.963)	6319	0.29368	115.6287(QM)
22 Benzo(a)pyrene	252		8.803	8.827	(0.993)	17654	0.84289	331.8626
24 Indeno(1,2,3-cd)pyrene	276		10.015	10.056	(1.130)	9129	0.45890	180.6764(M)
25 Dibenzo(a,h)anthracene	278		10.033	10.074	(1.132)	2886	0.15705	61.8320(H)
26 Benzo(g,h,i)perylene	276		10.356	10.415	(1.169)	12116	0.59674	234.9490

QC Flag Legend

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

Data File: 1CD04023.D

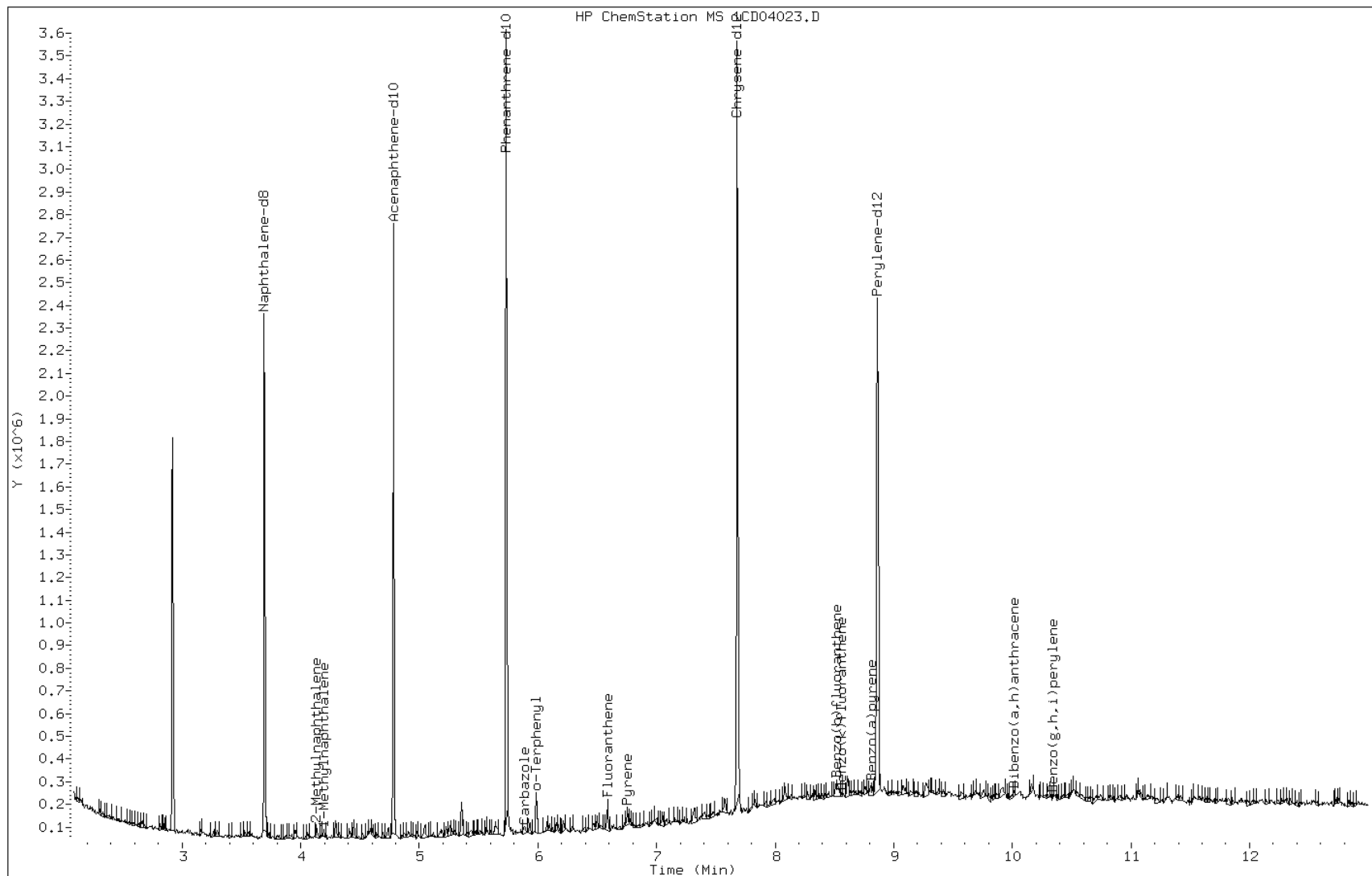
Date: 04-APR-2013 17:57

Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

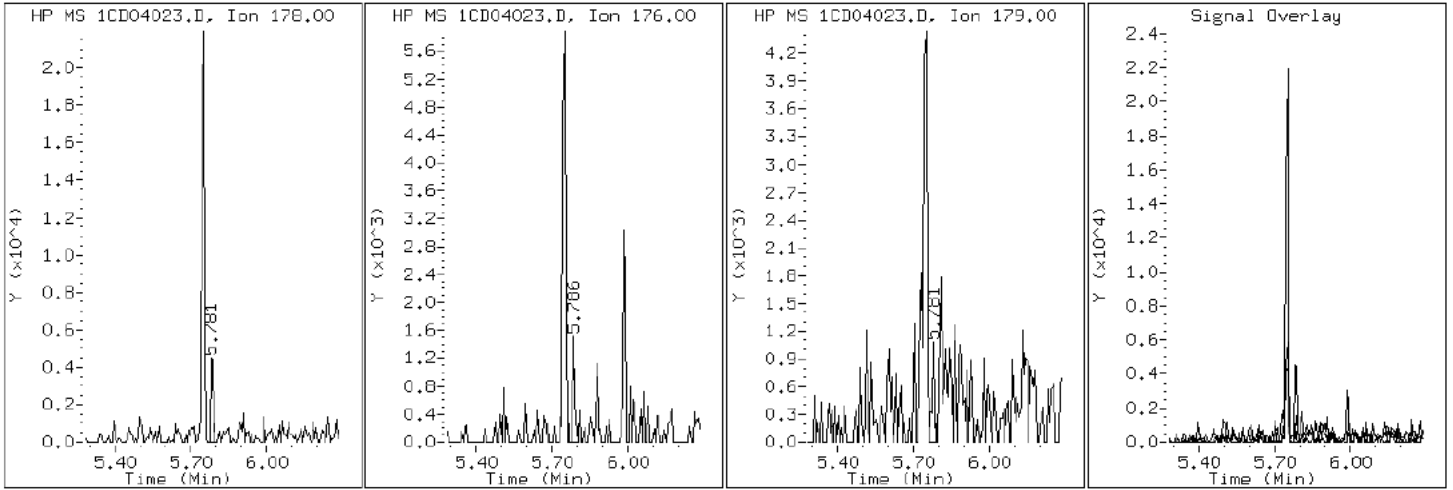
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

12 Anthracene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

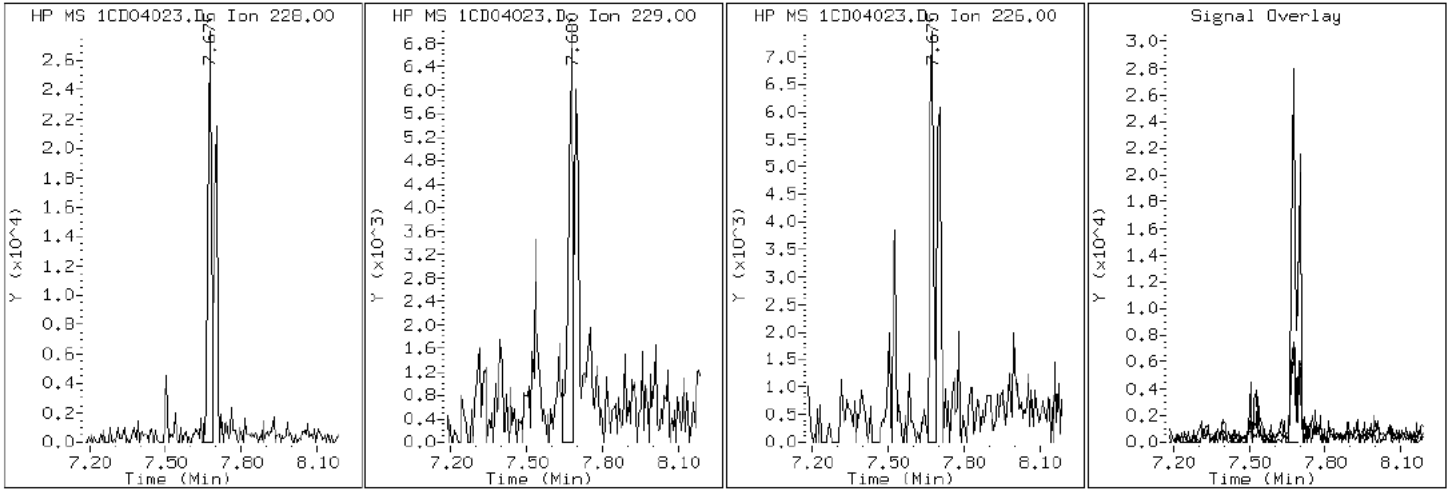
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

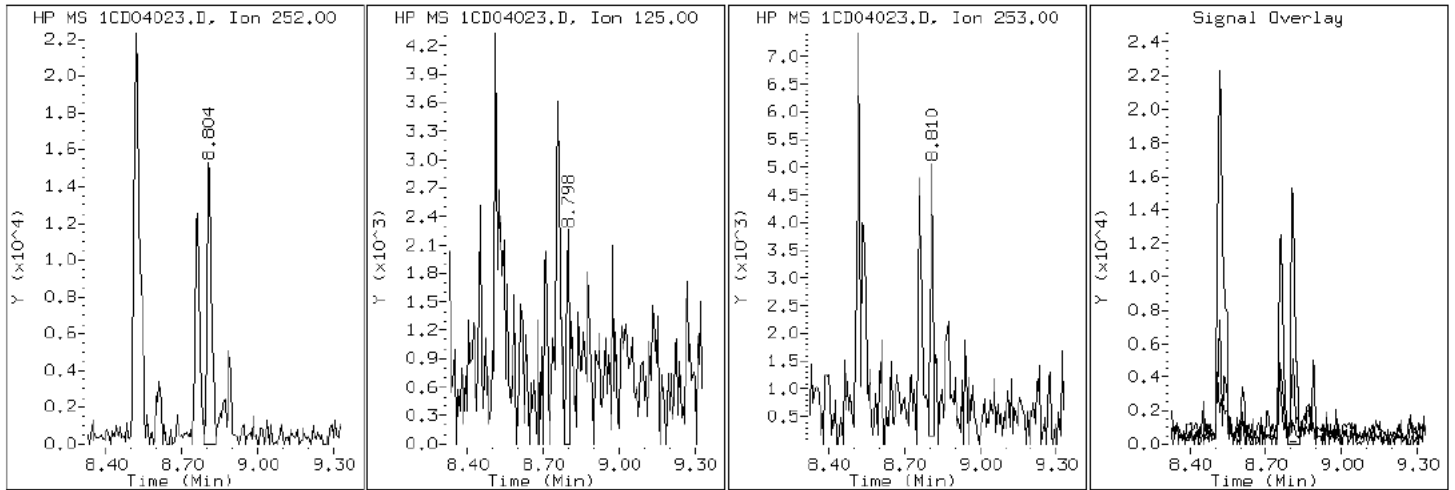
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD04023.D

Date: 04-APR-2013 17:57

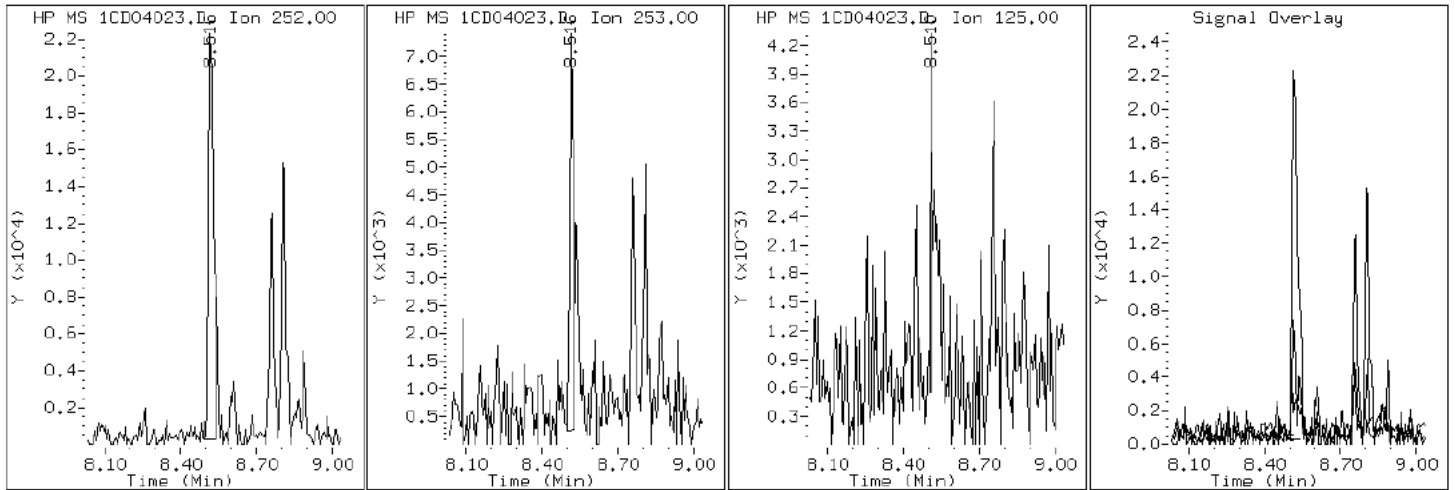
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

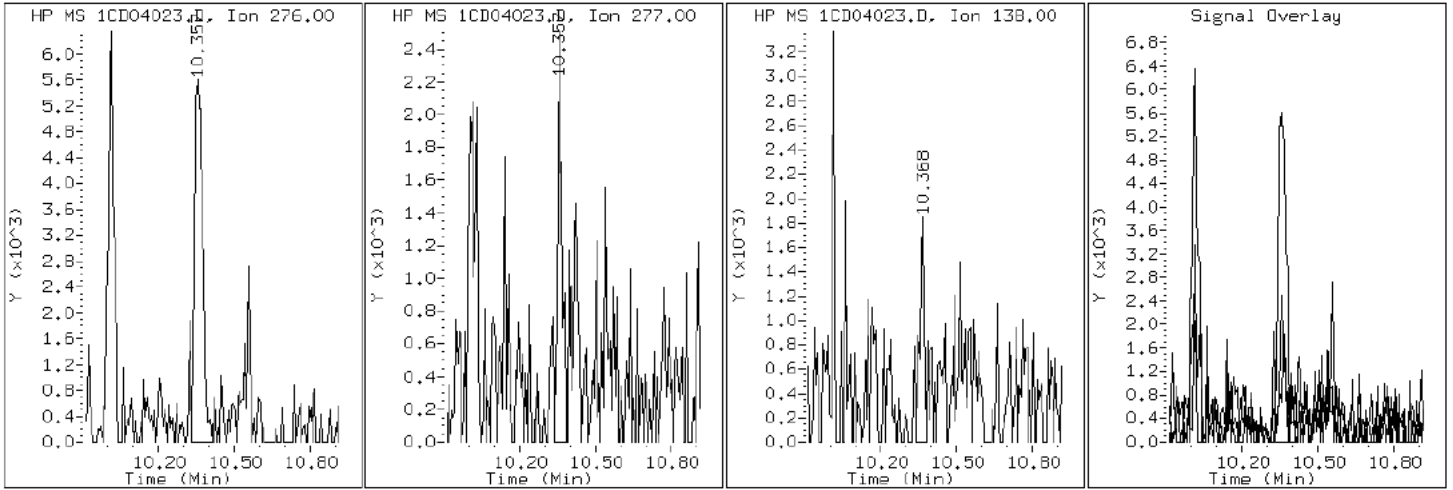
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

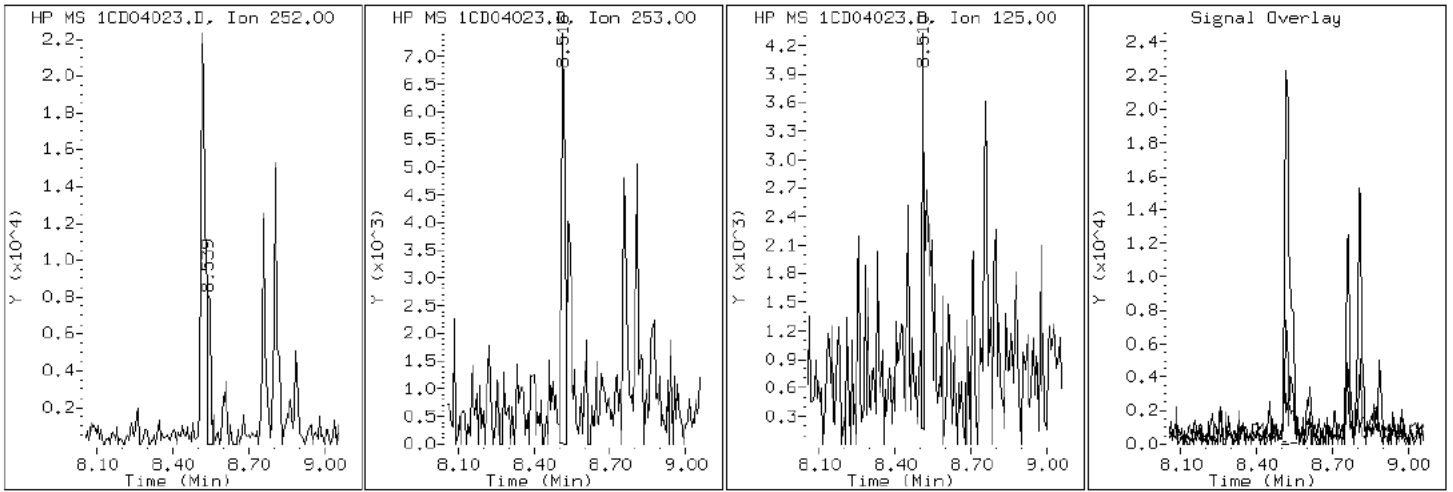
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

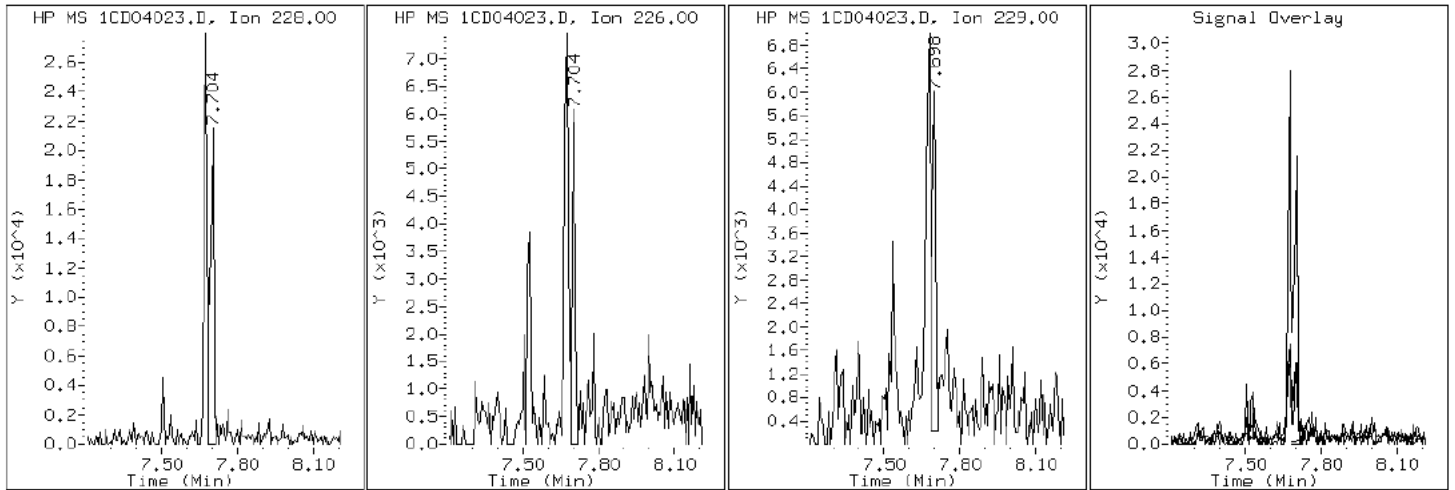
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

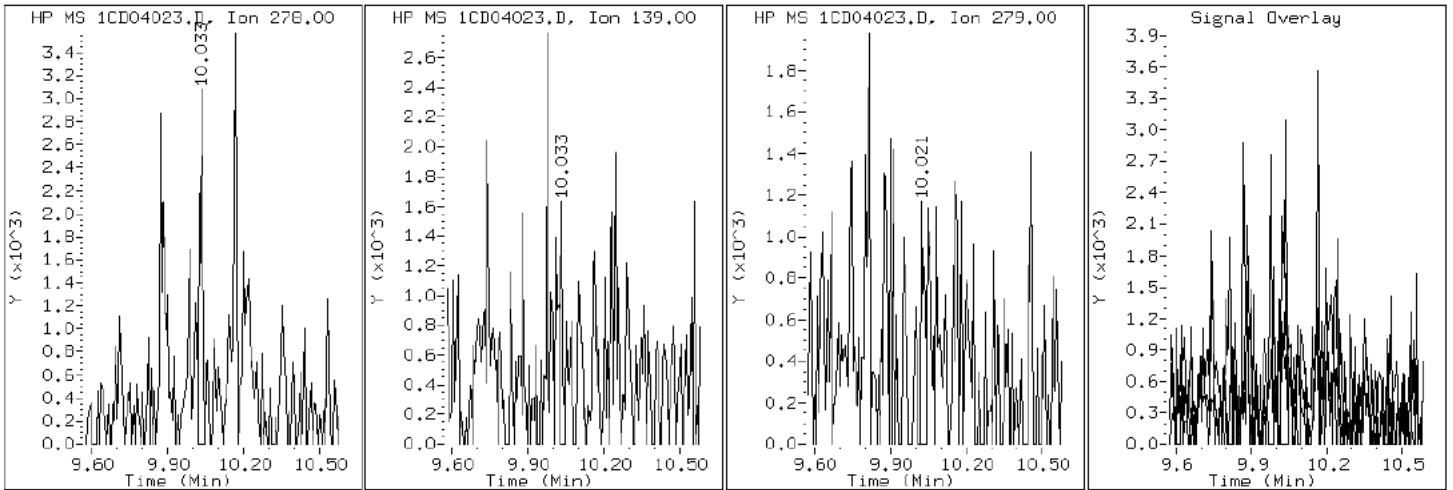
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

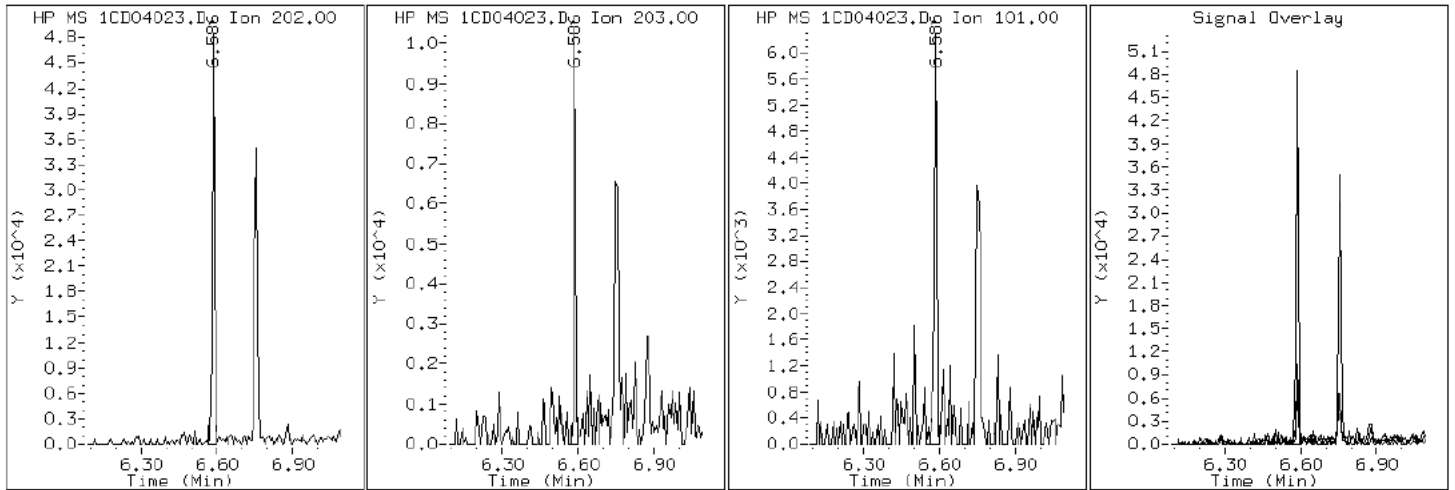
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

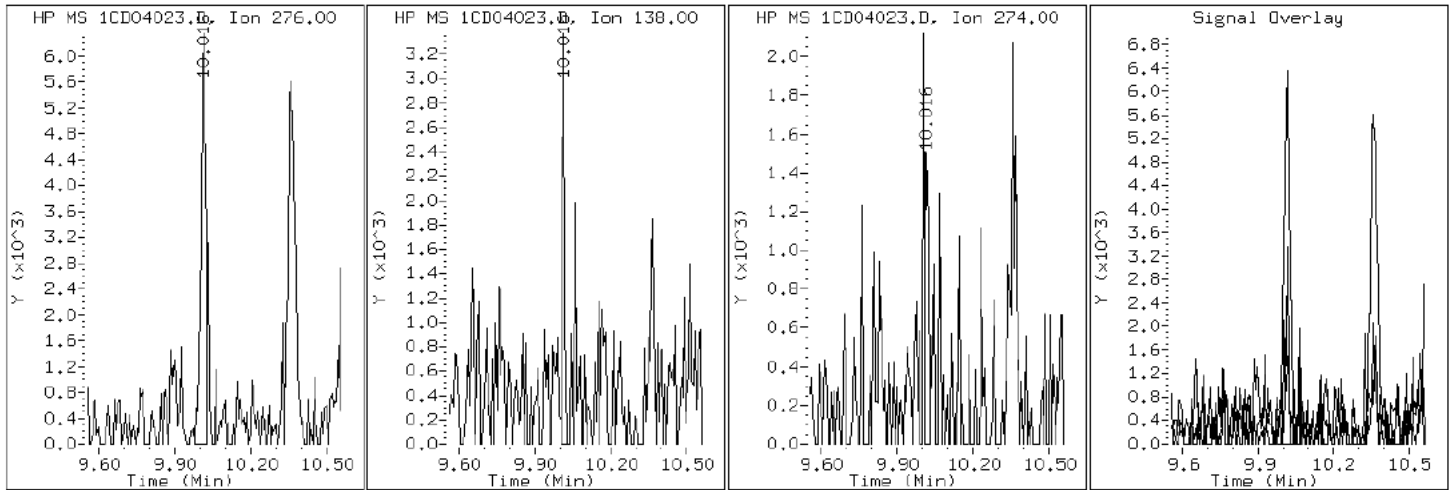
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

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



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

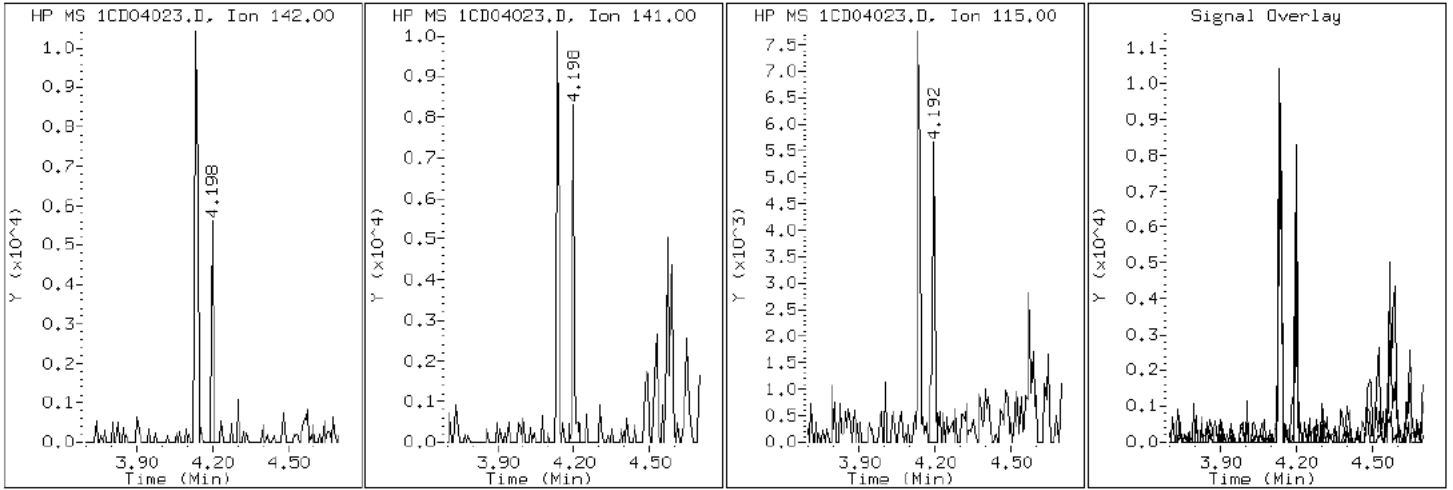
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD04023.D

Date: 04-APR-2013 17:57

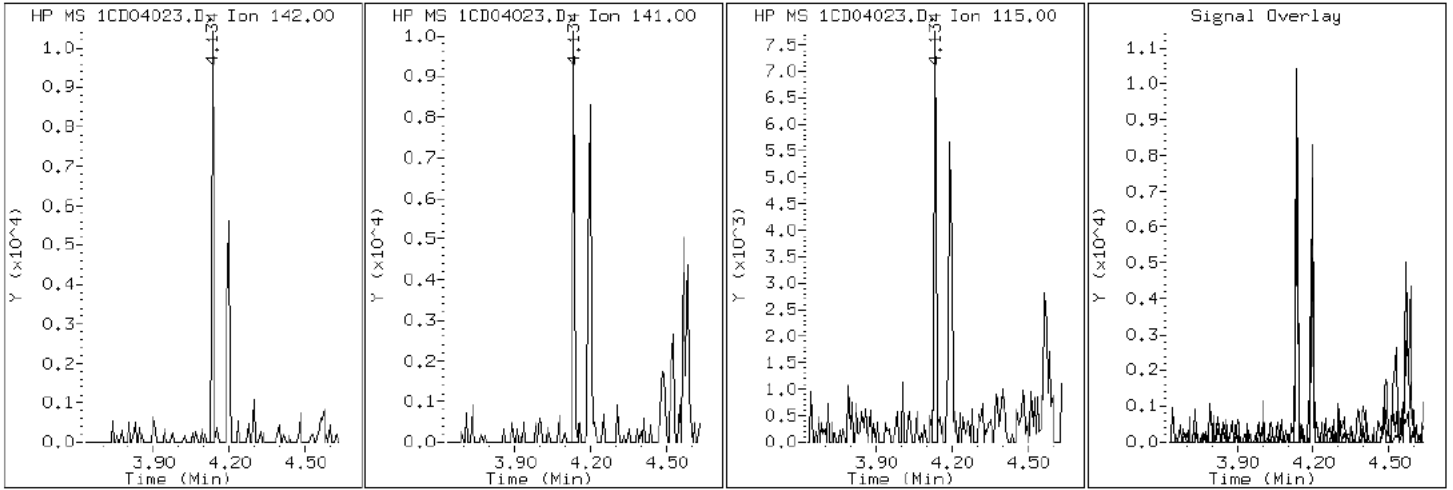
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

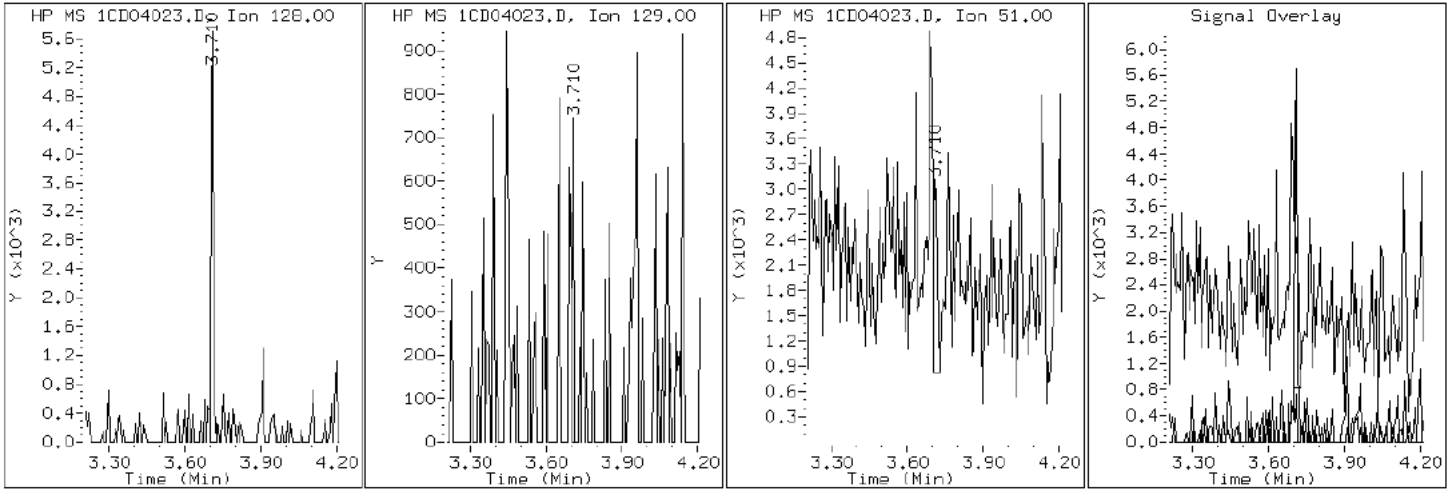
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

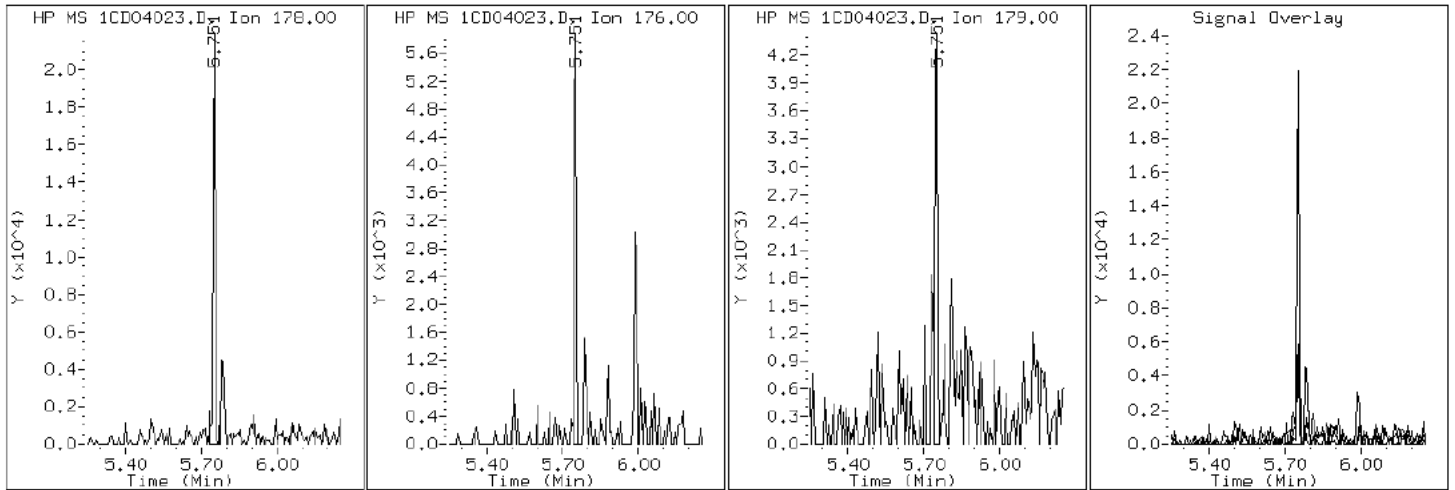
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04023.D

Date: 04-APR-2013 17:57

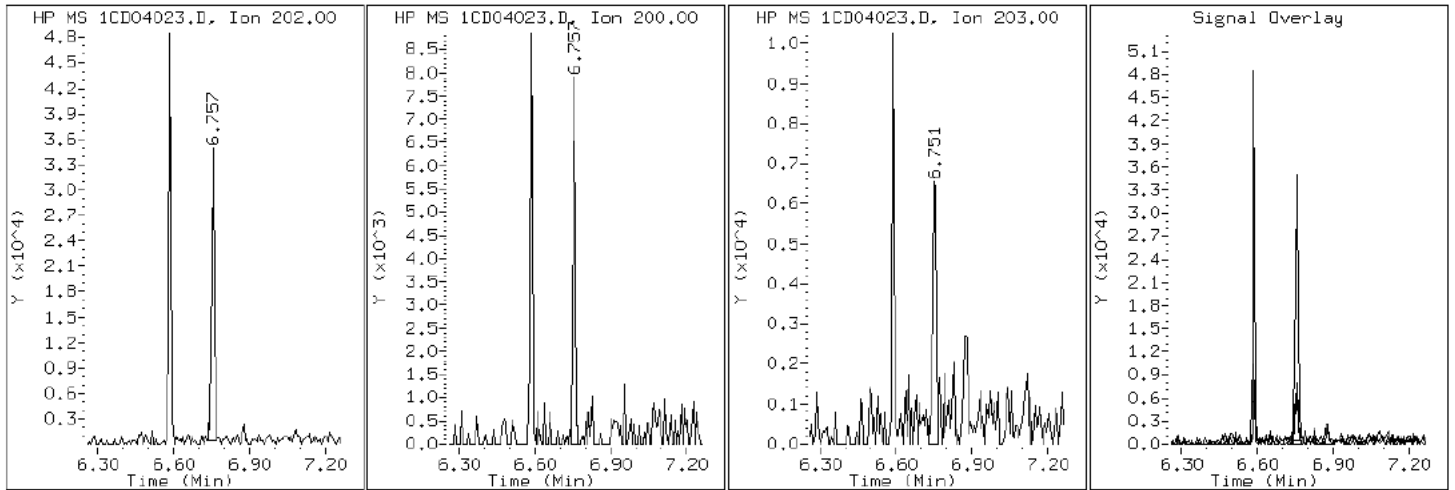
Client ID: CV0509D-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-12-a

Operator: SCC

16 Pyrene

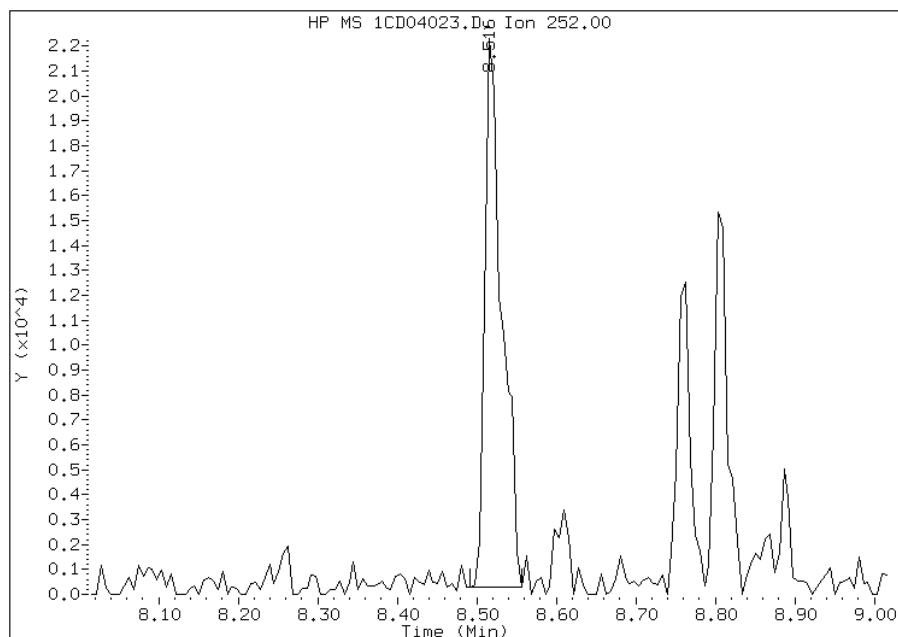


# Manual Integration Report

Data File: 1CD04023.D  
Inj. Date and Time: 04-APR-2013 17:57  
Instrument ID: BSMC5973.i  
Client ID: CV0509D-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

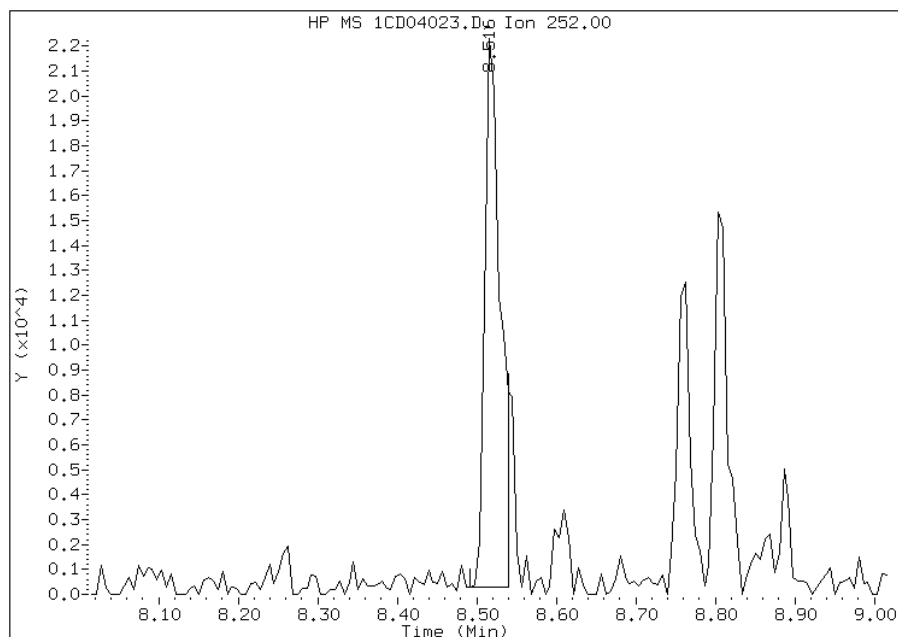
## Processing Integration Results

RT: 8.52  
Response: 33213  
Amount: 1  
Conc: 588



## Manual Integration Results

RT: 8.52  
Response: 30002  
Amount: 1  
Conc: 531



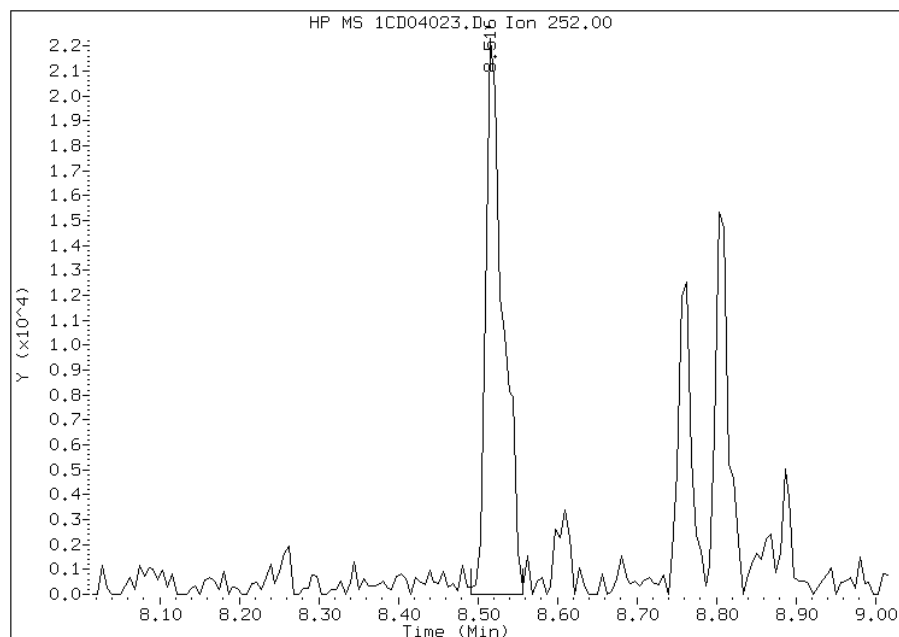
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:41  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04023.D  
Inj. Date and Time: 04-APR-2013 17:57  
Instrument ID: BSMC5973.i  
Client ID: CV0509D-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

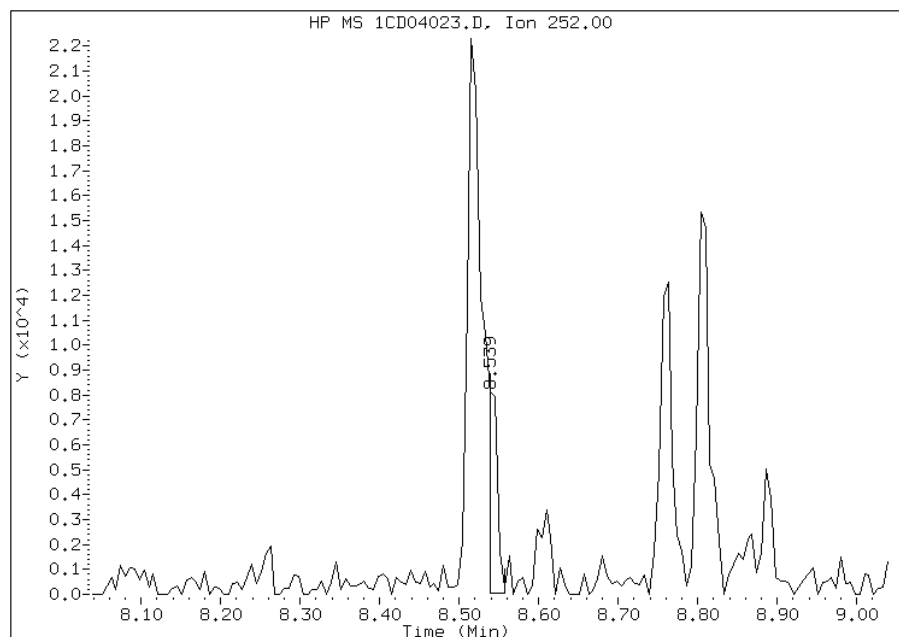
## Processing Integration Results

RT: 8.52  
Response: 34365  
Amount: 2  
Conc: 629



## Manual Integration Results

RT: 8.54  
Response: 6319  
Amount: 0  
Conc: 116



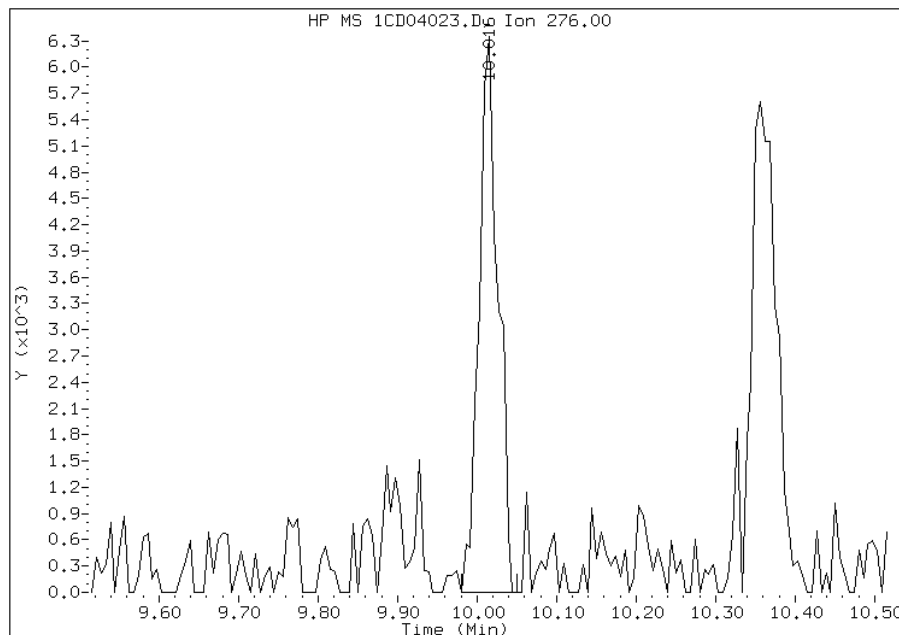
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:41  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04023.D  
Inj. Date and Time: 04-APR-2013 17:57  
Instrument ID: BSMC5973.i  
Client ID: CV0509D-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

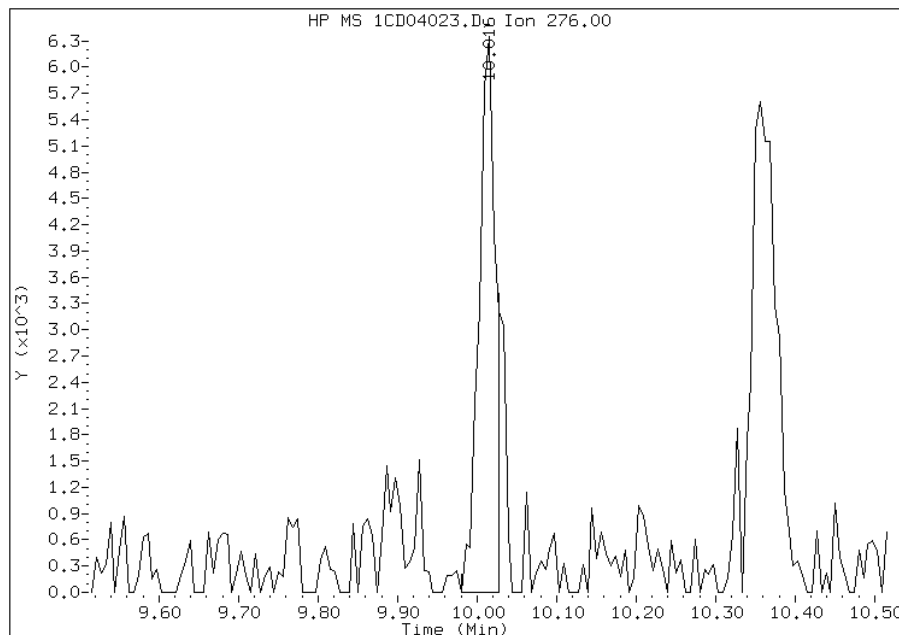
## Processing Integration Results

RT: 10.02  
Response: 10442  
Amount: 1  
Conc: 207



## Manual Integration Results

RT: 10.02  
Response: 9129  
Amount: 0  
Conc: 181



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509E-CS Lab Sample ID: 680-88767-13  
 Matrix: Solid Lab File ID: 1CD04024.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:45  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.05(g) Date Analyzed: 04/04/2013 18:15  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	J	500	100
208-96-8	Acenaphthylene	50	J	200	25
120-12-7	Anthracene	360		42	21
56-55-3	Benzo[a]anthracene	1200		40	20
50-32-8	Benzo[a]pyrene	830		52	26
205-99-2	Benzo[b]fluoranthene	1400		61	31
191-24-2	Benzo[g,h,i]perylene	580		100	22
207-08-9	Benzo[k]fluoranthene	590		40	18
218-01-9	Chrysene	1100		45	23
53-70-3	Dibenz(a,h)anthracene	180		100	21
206-44-0	Fluoranthene	2600		100	20
86-73-7	Fluorene	140		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	550		100	36
90-12-0	1-Methylnaphthalene	91	J	200	22
91-57-6	2-Methylnaphthalene	110	J	200	36
91-20-3	Naphthalene	120	J	200	22
85-01-8	Phenanthrene	1600		40	20
129-00-0	Pyrene	2000		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		30-130



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\1CD04024.D  
 Lab Smp Id: 680-88767-A-13-A Client Smp ID: CV0509E-CS  
 Inj Date : 04-APR-2013 18:15  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-13-a  
 Misc Info : 680-88767-A-13-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 24  
 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	15.050	Weight Extracted
M	20.339	% 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)	452537	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.786	(1.000)	345599	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	710789	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	22550	2.66905	890.4996
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	825734	40.0000	
* 23 Perylene-d12	264		8.862	8.886	(1.000)	803497	40.0000	(H)
2 Naphthalene	128		3.710	3.710	(1.005)	4262	0.36668	122.3378
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	2570	0.32482	108.3714(Q)
4 1-Methylnaphthalene	142		4.192	4.198	(1.135)	1940	0.27249	90.9148(Q)
5 Acenaphthylene	152		4.698	4.698	(0.983)	2138	0.14947	49.8704
7 Acenaphthene	154		4.804	4.804	(1.005)	3481	0.39293	131.0962
9 Fluorene	166		5.121	5.127	(1.071)	5120	0.43353	144.6418
11 Phenanthrene	178		5.751	5.751	(1.003)	100813	4.86985	1624.7734
12 Anthracene	178		5.780	5.786	(1.008)	22752	1.08419	361.7292

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898 (1.028)		14472	0.80494	268.5597
15 Fluoranthene	202	6.586	6.592 (1.149)		175084	7.65824	2555.0915
16 Pyrene	202	6.757	6.763 (0.880)		135731	5.93399	1979.8152
17 Benzo(a)anthracene	228	7.674	7.686 (0.999)		86194	3.73822	1247.2171
19 Chrysene	228	7.698	7.710 (1.002)		75234	3.19739	1066.7762
20 Benzo(b)fluoranthene	252	8.521	8.533 (0.962)		97898	4.30974	1437.8989(M)
21 Benzo(k)fluoranthene	252	8.539	8.557 (0.963)		38951	1.77292	591.5150(MH)
22 Benzo(a)pyrene	252	8.809	8.827 (0.994)		52997	2.47810	826.7919
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.056 (1.129)		33502	1.64931	550.2737(MH)
25 Dibenzo(a,h)anthracene	278	10.033	10.074 (1.132)		10310	0.54945	183.3182(H)
26 Benzo(g,h,i)perylene	276	10.368	10.415 (1.170)		36010	1.73696	579.5185(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: 1CD04024.D

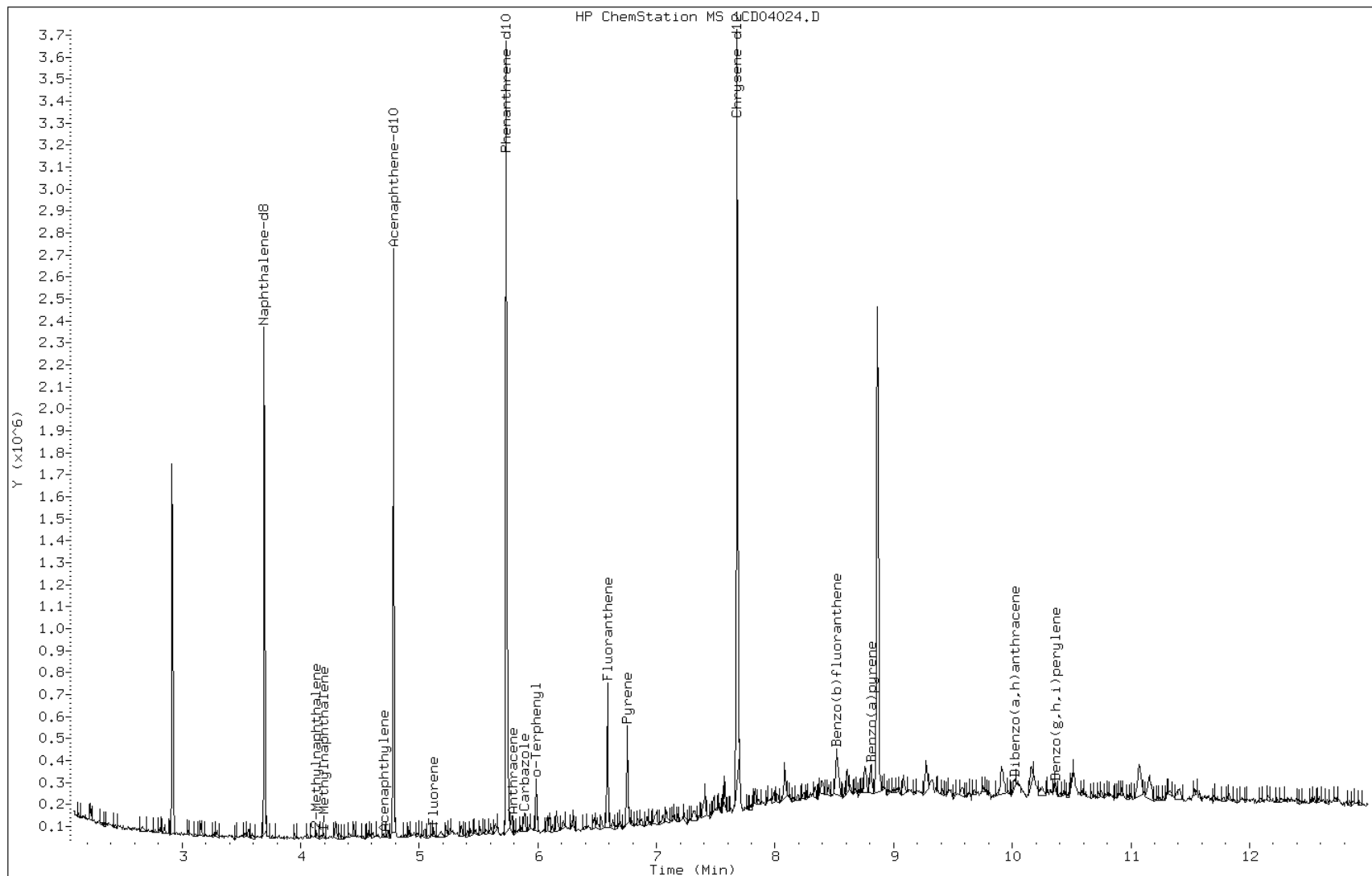
Date: 04-APR-2013 18:15

Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

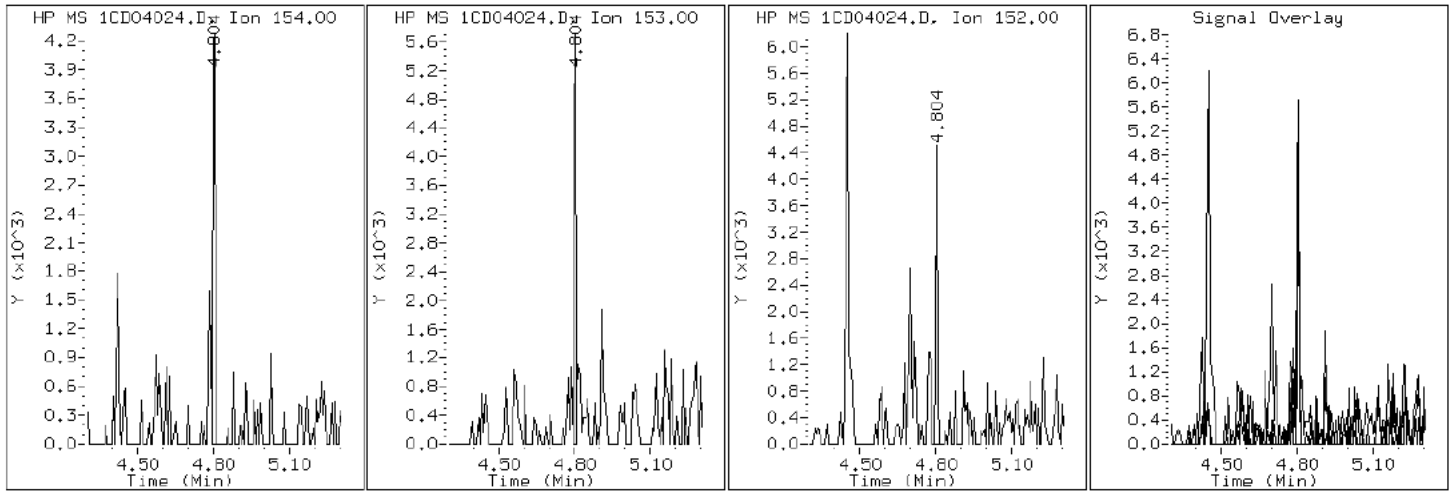
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

7 Acenaphthene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

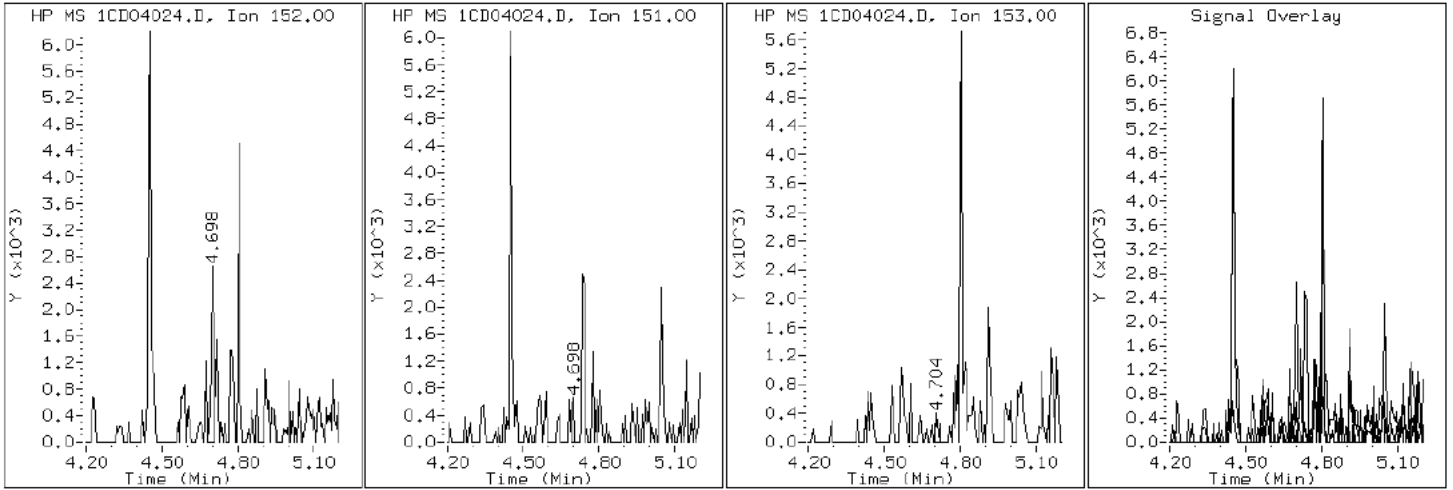
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

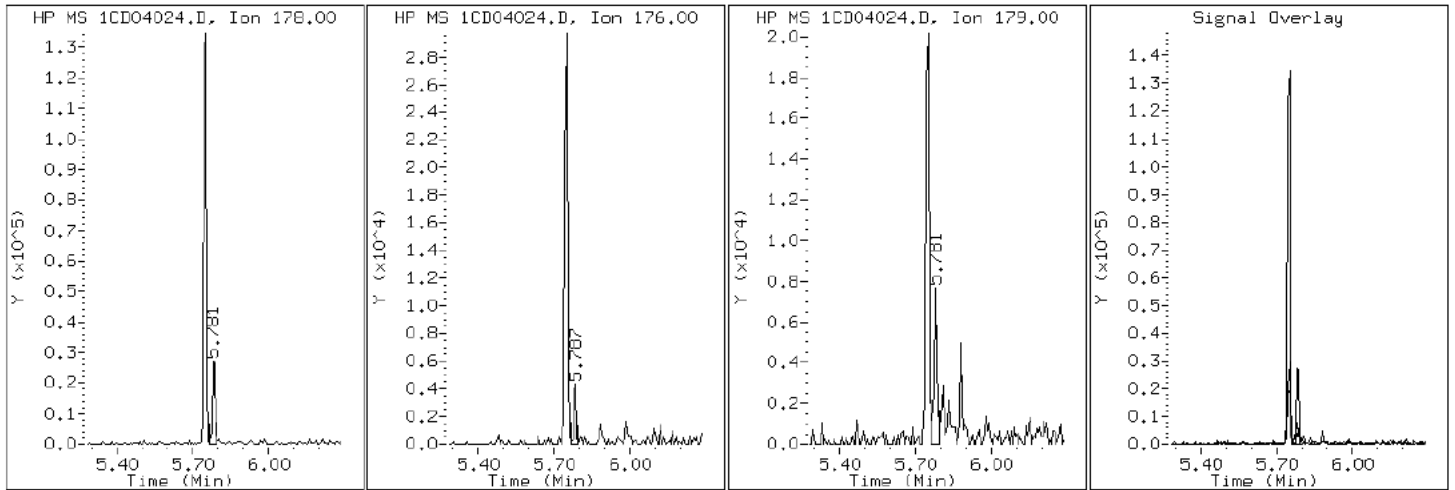
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

12 Anthracene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

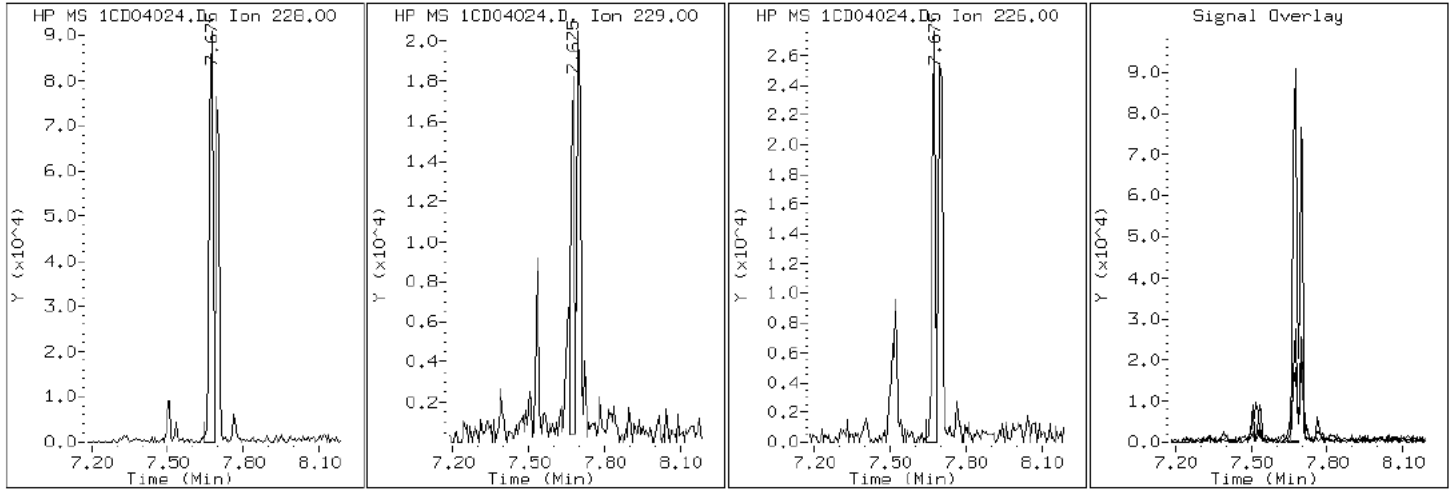
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

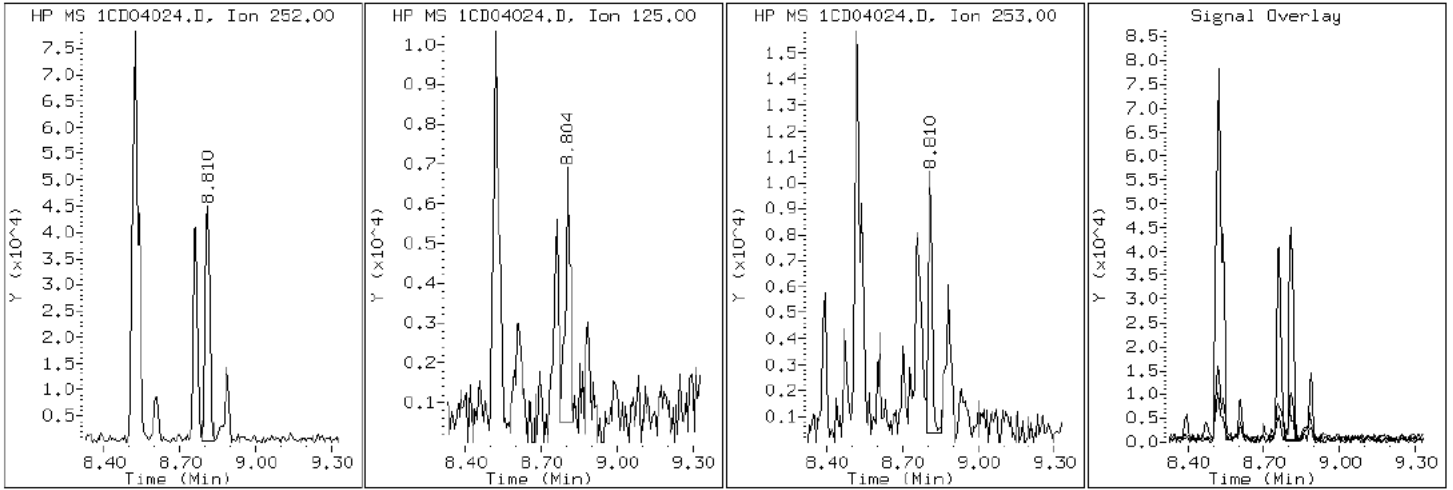
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD04024.D

Date: 04-APR-2013 18:15

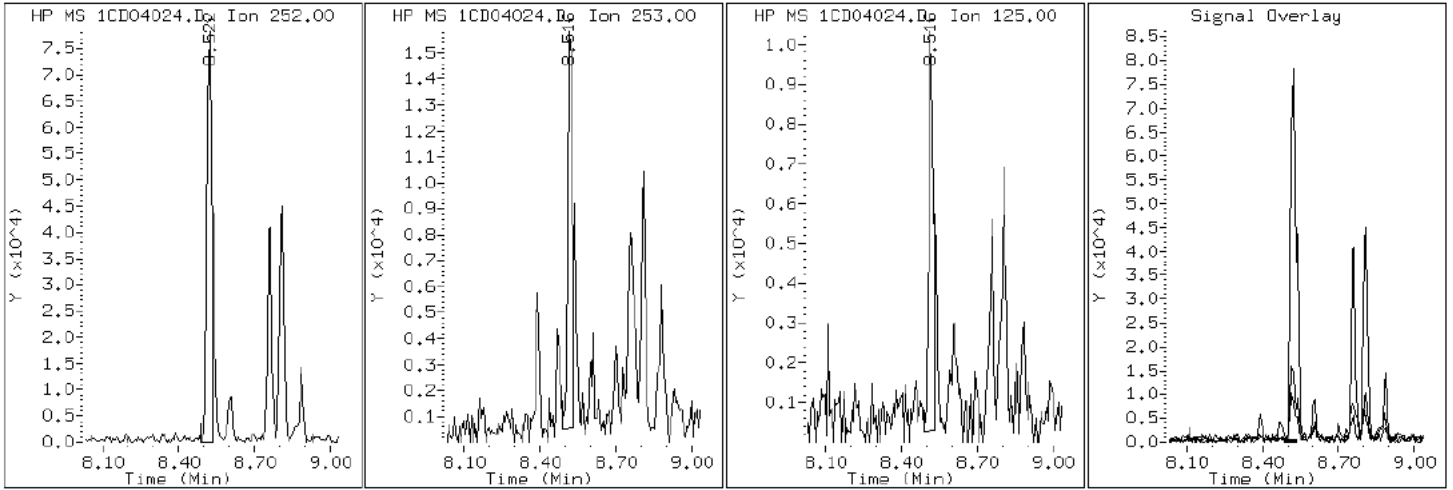
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

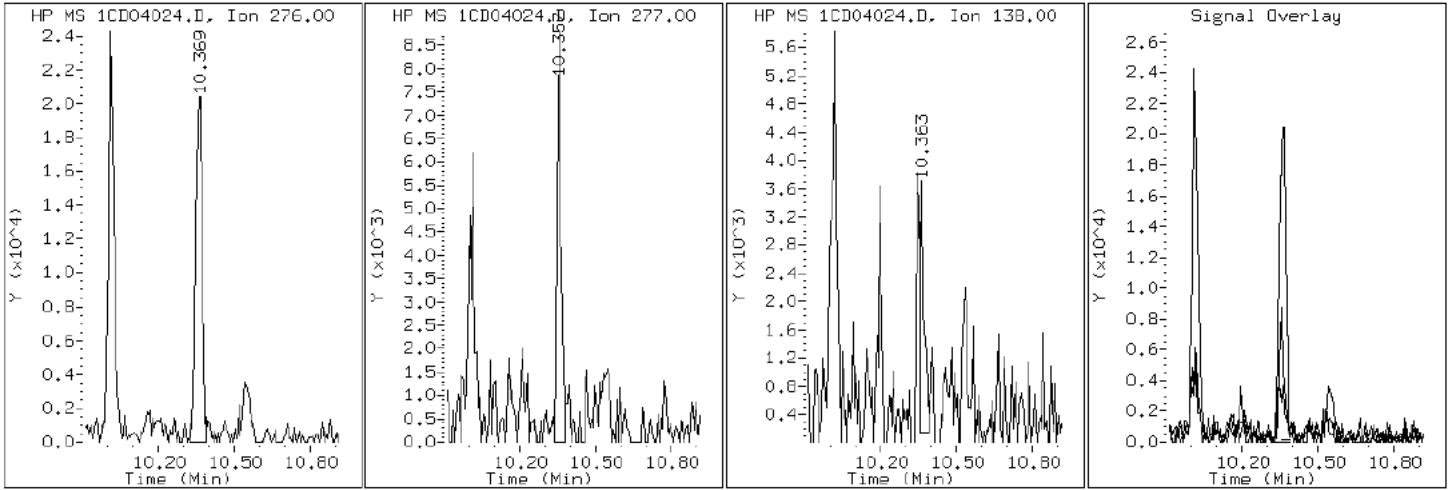
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

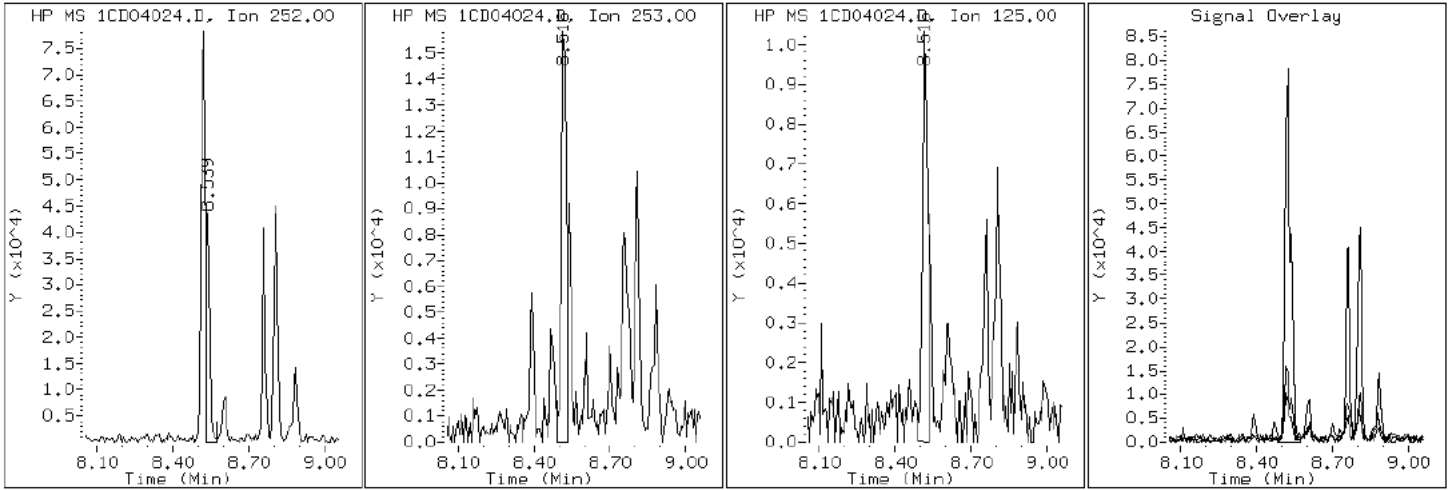
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

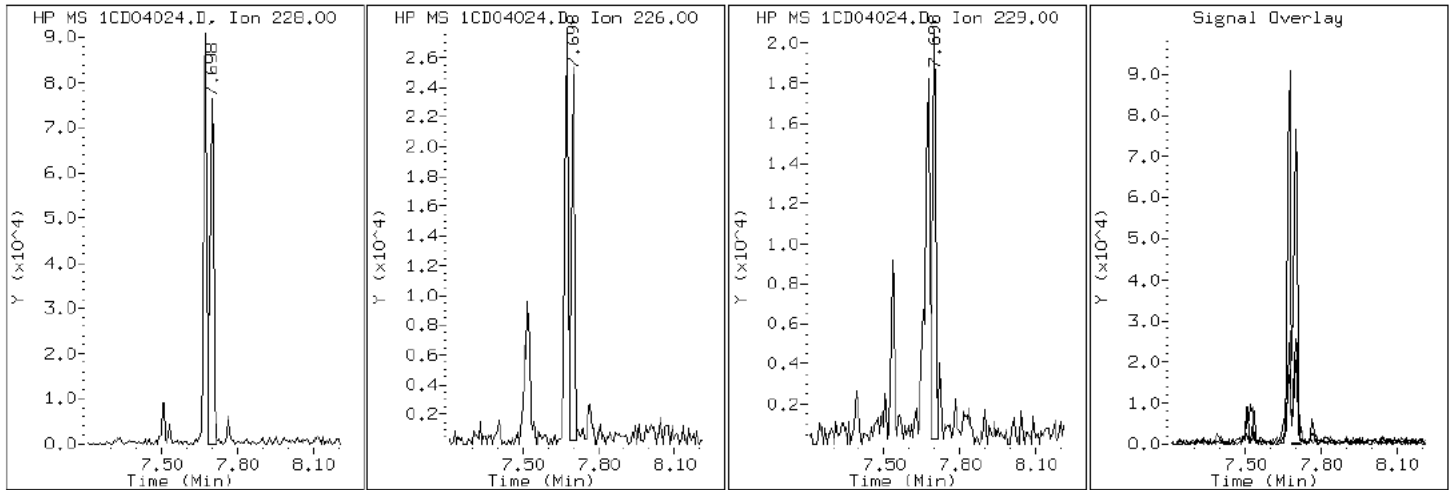
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

19 Chrysene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

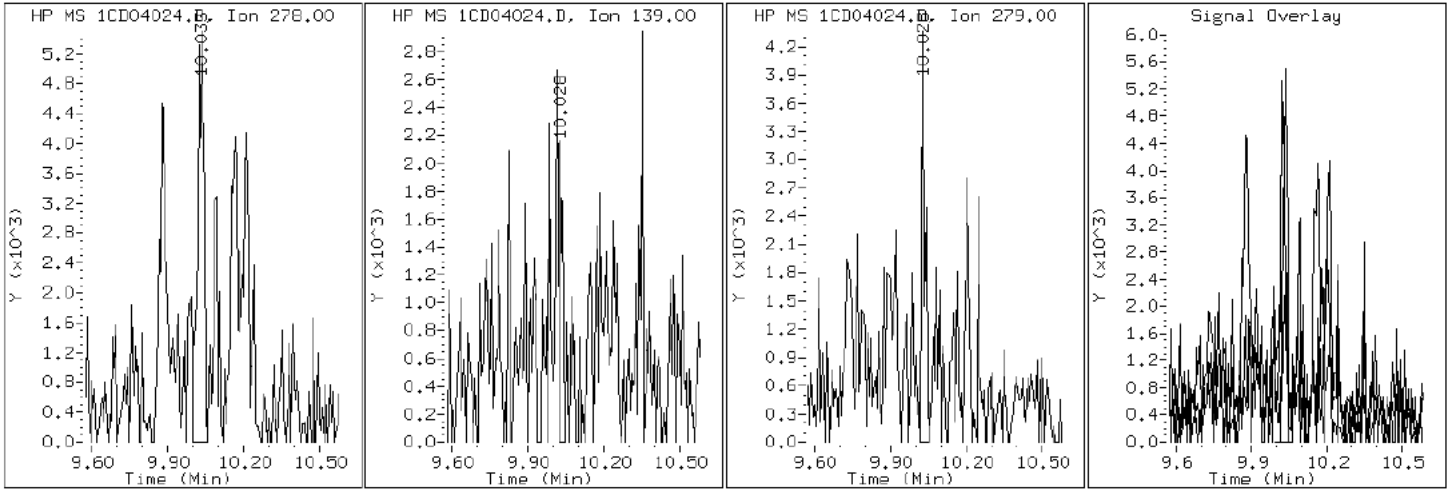
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

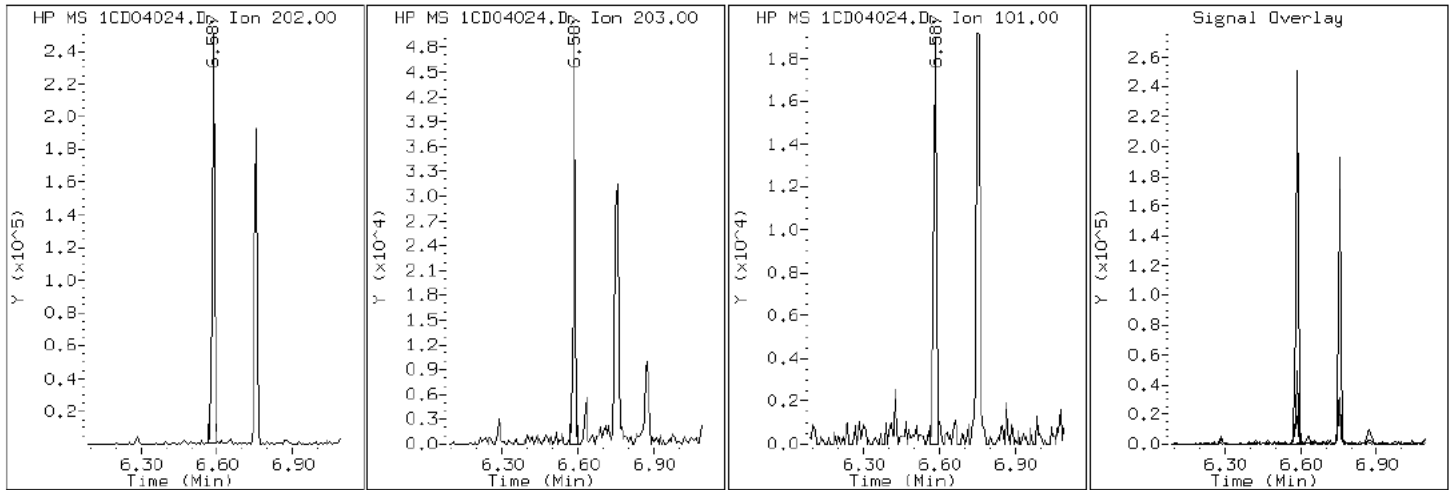
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

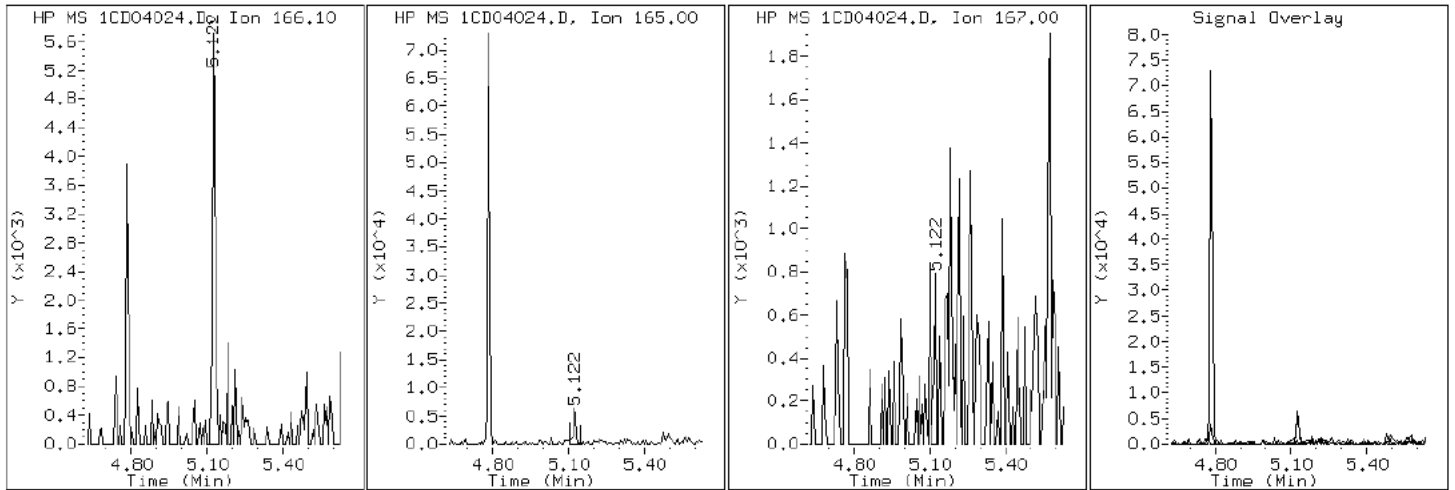
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

9 Fluorene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

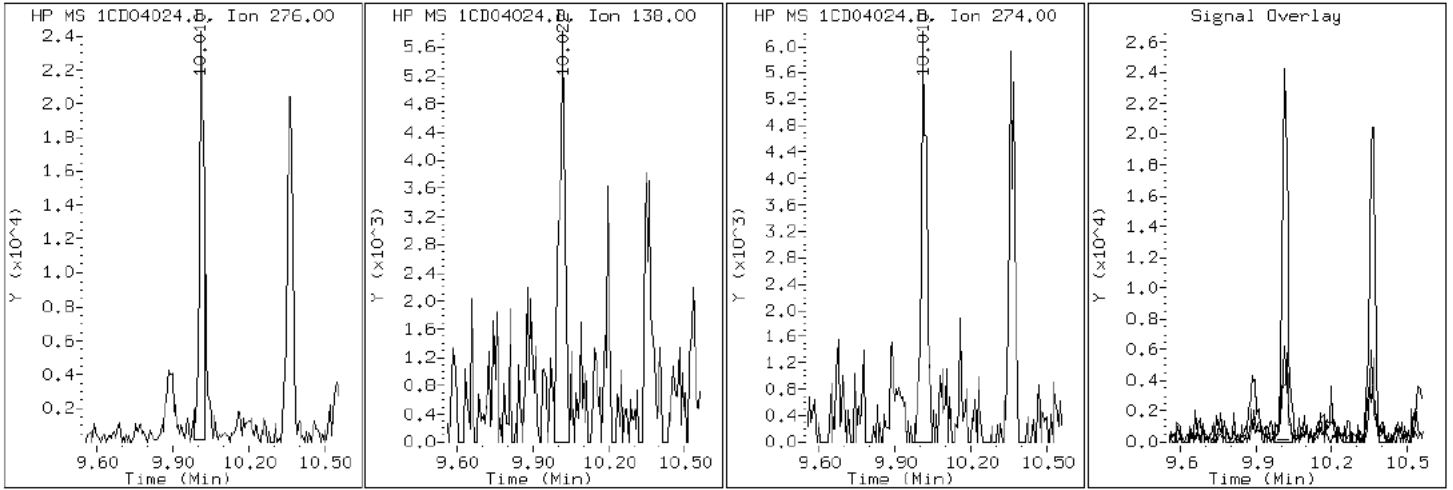
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

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





Data File: 1CD04024.D

Date: 04-APR-2013 18:15

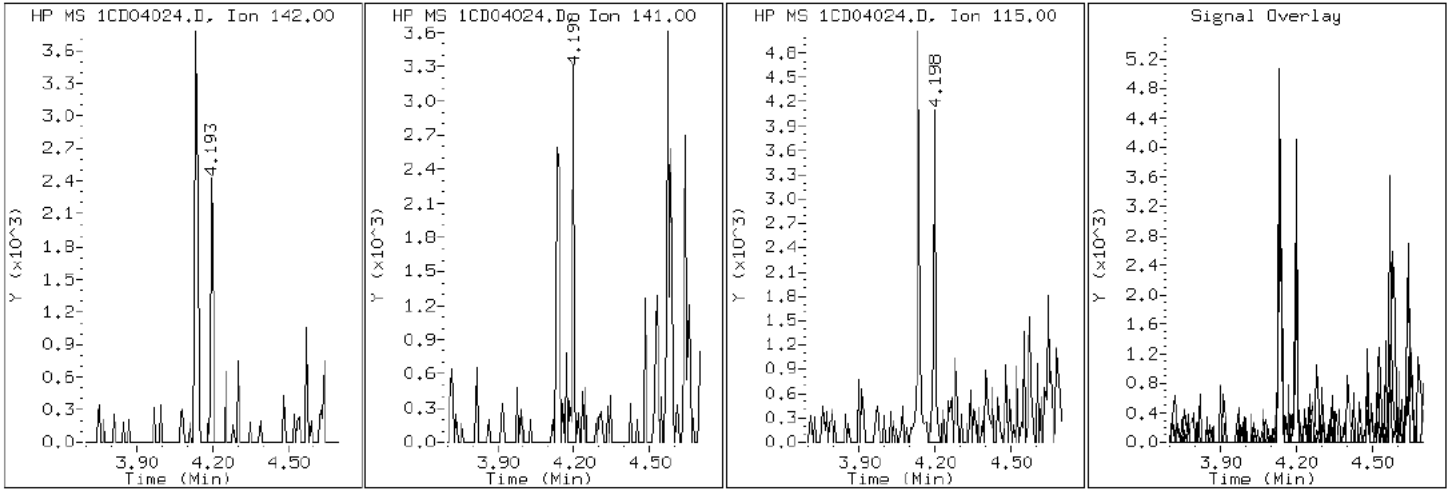
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

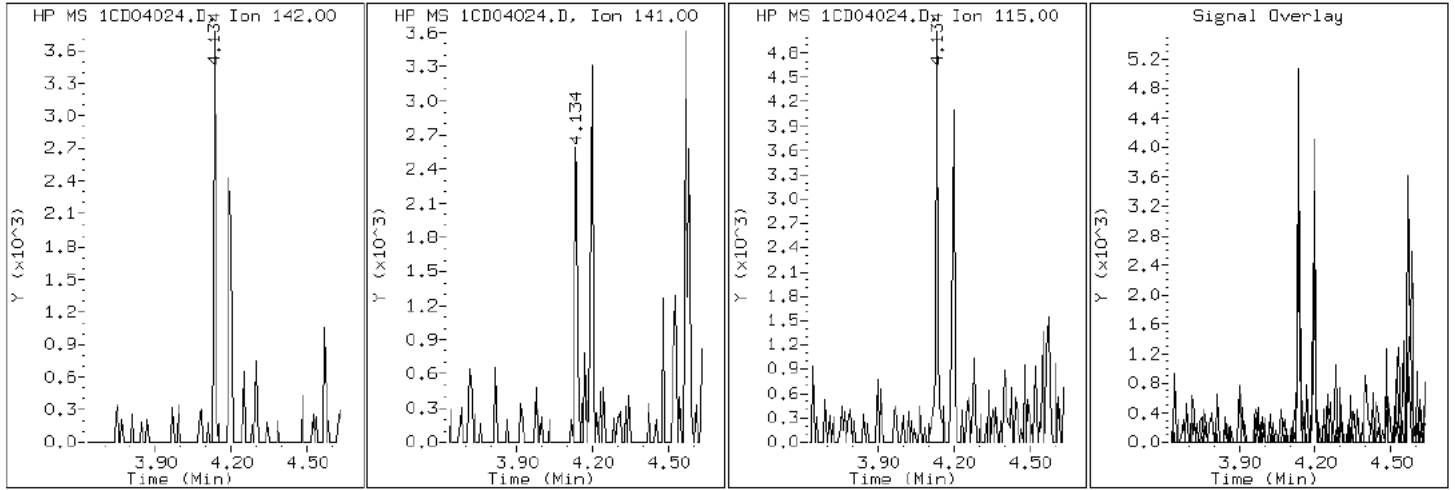
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

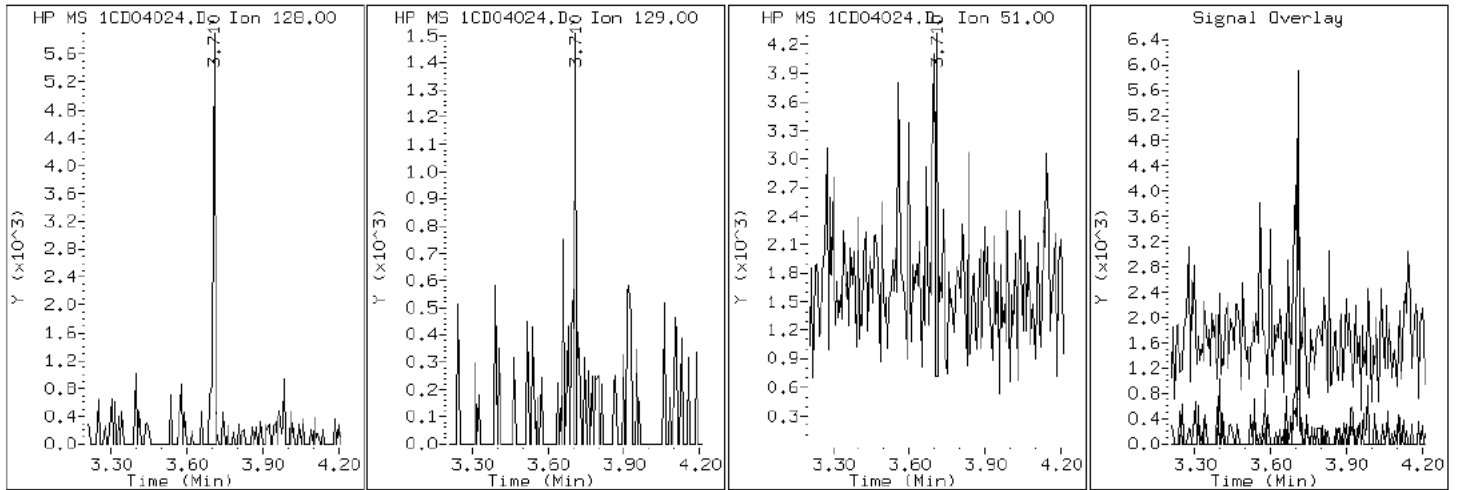
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

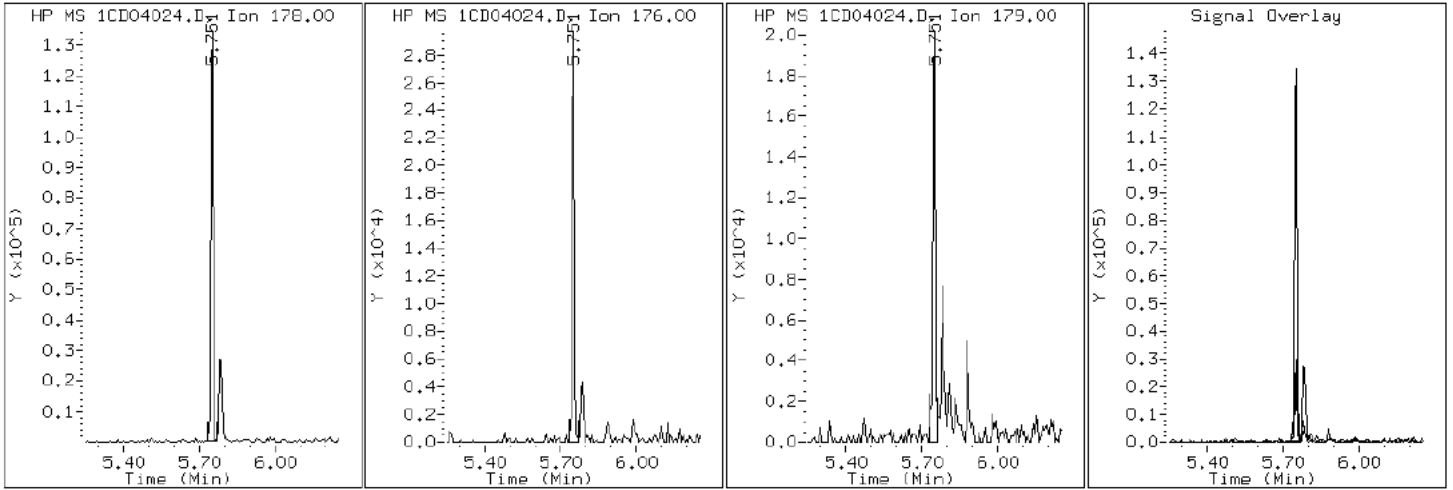
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04024.D

Date: 04-APR-2013 18:15

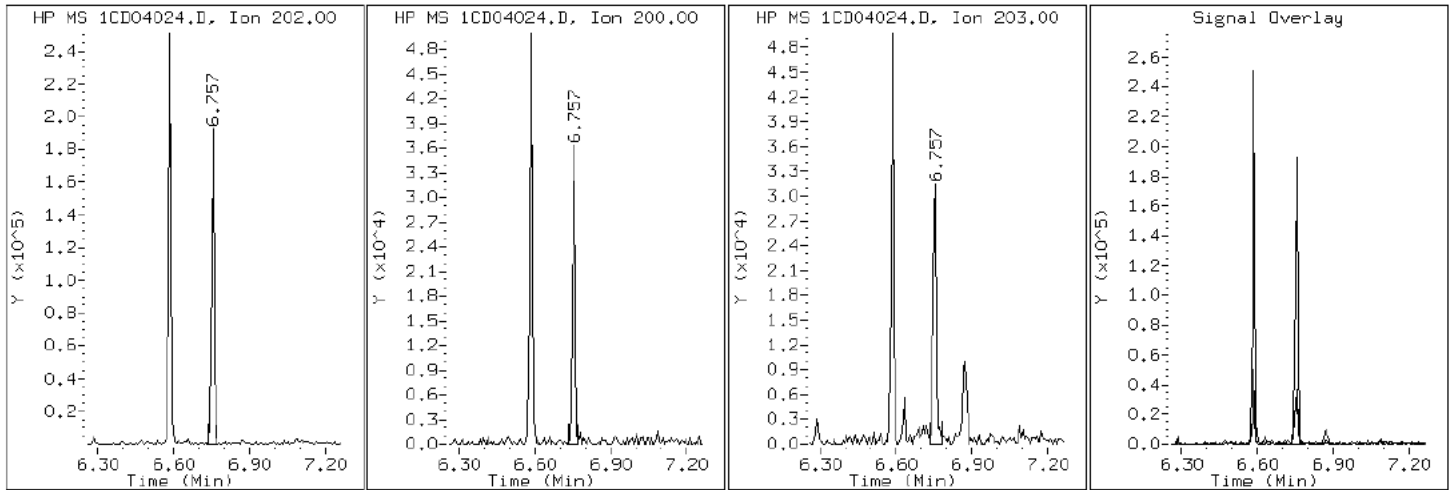
Client ID: CV0509E-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-13-a

Operator: SCC

16 Pyrene

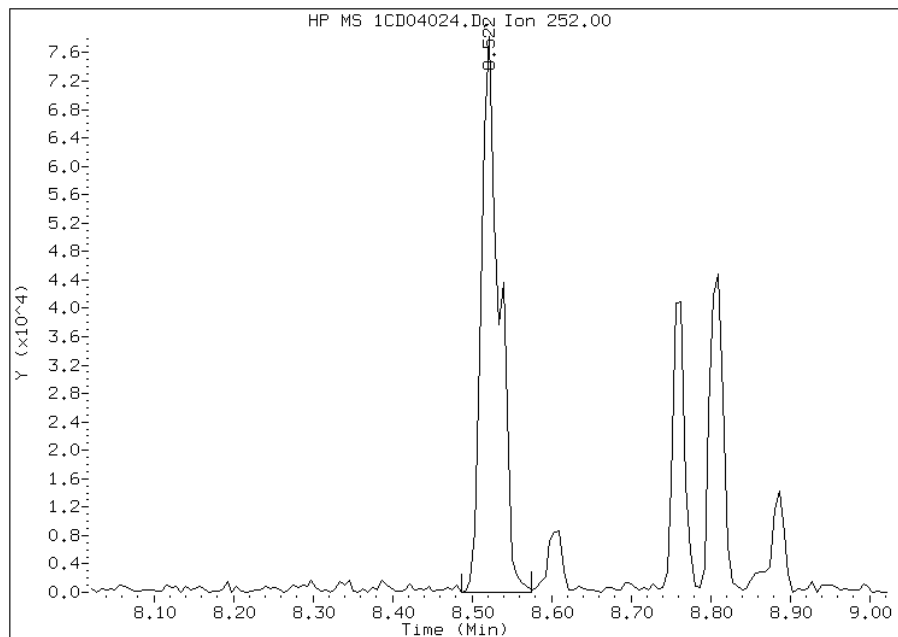


# Manual Integration Report

Data File: 1CD04024.D  
Inj. Date and Time: 04-APR-2013 18:15  
Instrument ID: BSMC5973.i  
Client ID: CV0509E-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

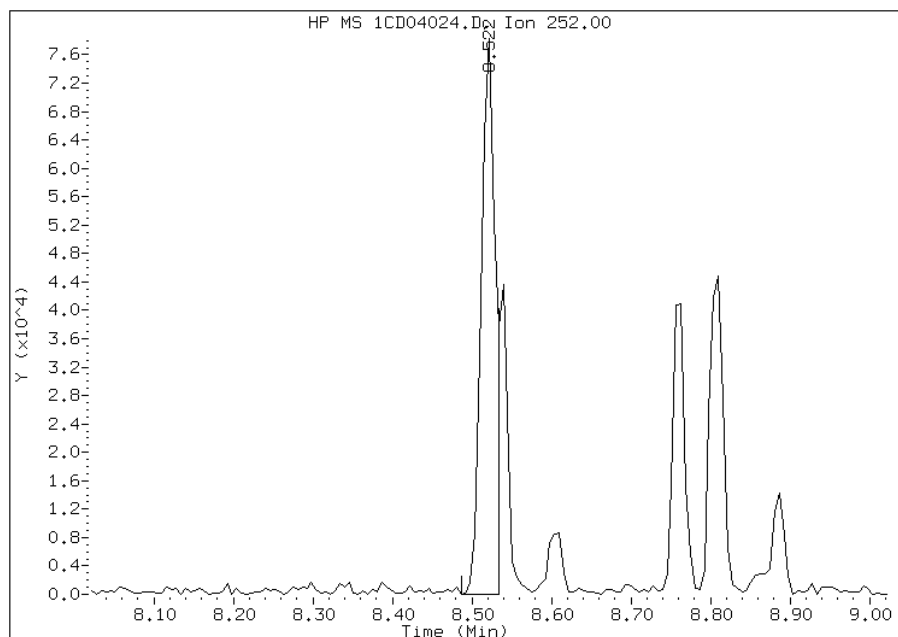
## Processing Integration Results

RT: 8.52  
Response: 123696  
Amount: 5  
Conc: 1817



## Manual Integration Results

RT: 8.52  
Response: 97898  
Amount: 4  
Conc: 1438



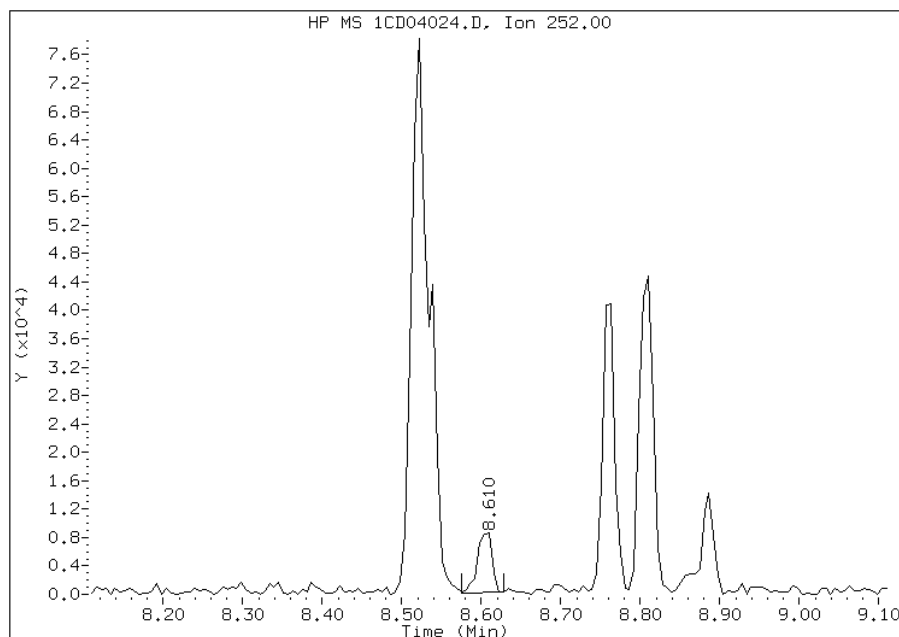
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:42  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04024.D  
Inj. Date and Time: 04-APR-2013 18:15  
Instrument ID: BSMC5973.i  
Client ID: CV0509E-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

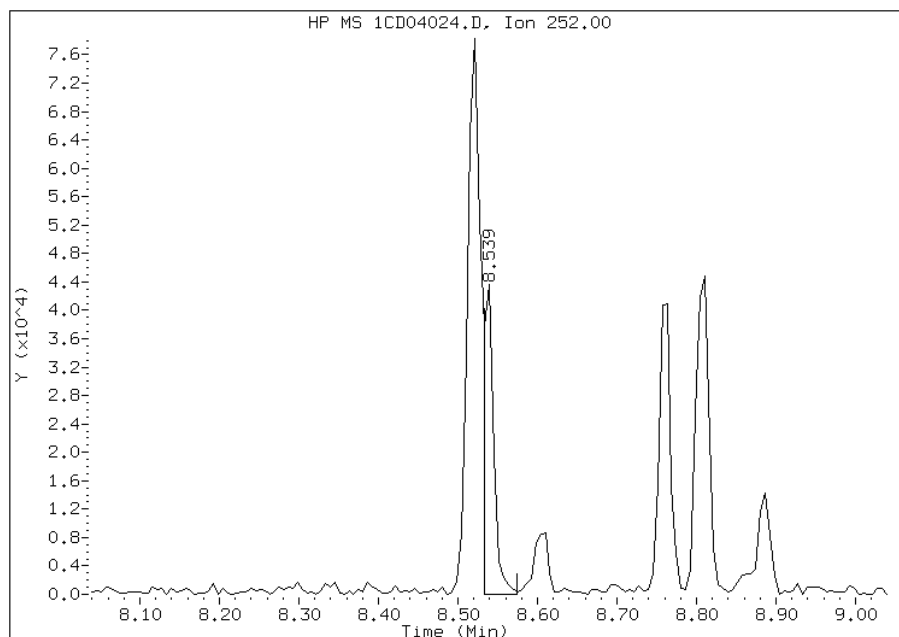
## Processing Integration Results

RT: 8.61  
Response: 10749  
Amount: 0  
Conc: 163



## Manual Integration Results

RT: 8.54  
Response: 38951  
Amount: 2  
Conc: 592



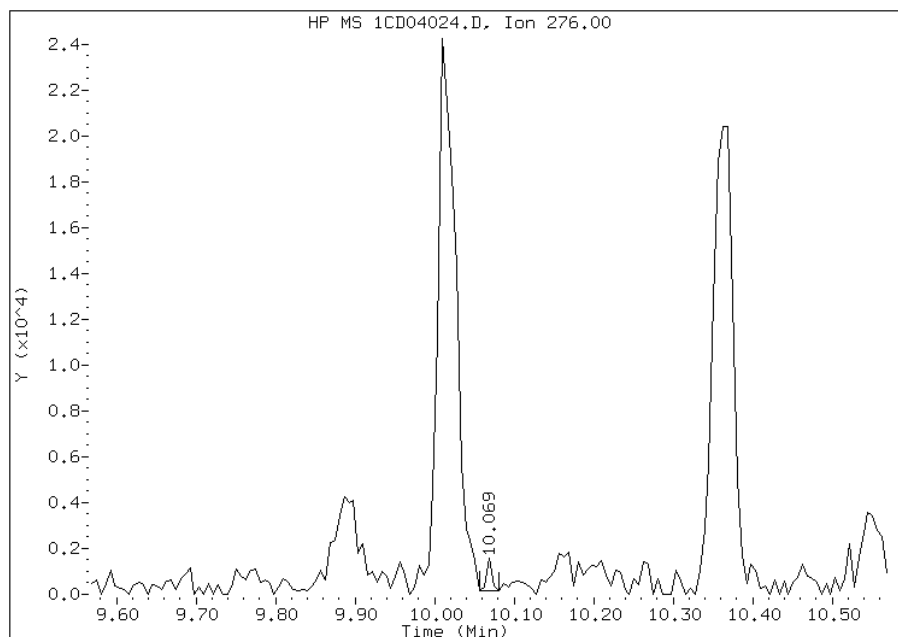
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:42  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04024.D  
Inj. Date and Time: 04-APR-2013 18:15  
Instrument ID: BSMC5973.i  
Client ID: CV0509E-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

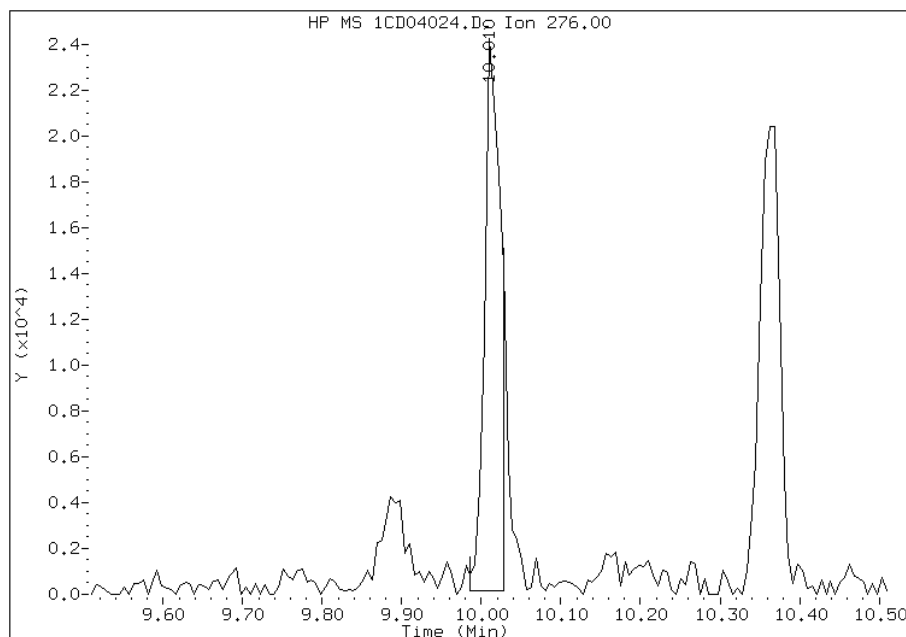
## Processing Integration Results

RT: 10.07  
Response: 637  
Amount: 0  
Conc: 10



## Manual Integration Results

RT: 10.01  
Response: 33502  
Amount: 2  
Conc: 550



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:43  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509F-CS Lab Sample ID: 680-88767-14  
 Matrix: Solid Lab File ID: 1CD04025.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:55  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.02(g) Date Analyzed: 04/04/2013 18:34  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	15	J	50	6.3
120-12-7	Anthracene	41		11	5.3
56-55-3	Benzo[a]anthracene	200		10	4.9
50-32-8	Benzo[a]pyrene	180		13	6.6
205-99-2	Benzo[b]fluoranthene	300		15	7.7
191-24-2	Benzo[g,h,i]perylene	130		25	5.5
207-08-9	Benzo[k]fluoranthene	110		10	4.5
218-01-9	Chrysene	210		11	5.7
53-70-3	Dibenz(a,h)anthracene	44		25	5.2
206-44-0	Fluoranthene	350		25	5.0
86-73-7	Fluorene	19	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	9.0
90-12-0	1-Methylnaphthalene	37	J	50	5.5
91-57-6	2-Methylnaphthalene	50		50	9.0
91-20-3	Naphthalene	45	J	50	5.5
85-01-8	Phenanthrene	230		10	4.9
129-00-0	Pyrene	320		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\1C040413.b\1CD04025.D  
 Lab Smp Id: 680-88767-A-14-A Client Smp ID: CV0509F-CS  
 Inj Date : 04-APR-2013 18:34  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-14-a  
 Misc Info : 680-88767-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	20.776	% 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)	503534	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.786	(1.000)	381498	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	766354	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	87768	7.74191	650.6135
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	889270	40.0000	
* 23 Perylene-d12	264		8.862	8.886	(1.000)	862068	40.0000	(H)
2 Naphthalene	128		3.710	3.710	(1.005)	6983	0.53993	45.3745
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	5221	0.59304	49.8376
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	3465	0.43741	36.7585
5 Acenaphthylene	152		4.692	4.698	(0.982)	2861	0.18120	15.2275
9 Fluorene	166		5.121	5.127	(1.071)	2902	0.22260	18.7067
11 Phenanthrene	178		5.751	5.751	(1.003)	60169	2.69577	226.5465
12 Anthracene	178		5.786	5.786	(1.009)	11017	0.48692	40.9200
13 Carbazole	167		5.892	5.898	(1.028)	8072	0.41642	34.9946

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.586	6.592 (1.149)		102616	4.16302	349.8512
16 Pyrene	202	6.757	6.763 (0.880)		92555	3.75729	315.7541
17 Benzo(a)anthracene	228	7.674	7.686 (0.999)		57443	2.36499	198.7488
19 Chrysene	228	7.698	7.710 (1.002)		61878	2.44188	205.2102
20 Benzo(b)fluoranthene	252	8.521	8.533 (0.962)		86980	3.56894	299.9257(M)
21 Benzo(k)fluoranthene	252	8.539	8.557 (0.963)		31694	1.34459	112.9962(QMH)
22 Benzo(a)pyrene	252	8.809	8.827 (0.994)		47783	2.08249	175.0081(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.056 (1.129)		31754	1.45704	122.4464(MH)
25 Dibenzo(a,h)anthracene	278	10.033	10.074 (1.132)		10449	0.51902	43.6175(H)
26 Benzo(g,h,i)perylene	276	10.362	10.415 (1.169)		34039	1.53033	128.6058(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: 1CD04025.D

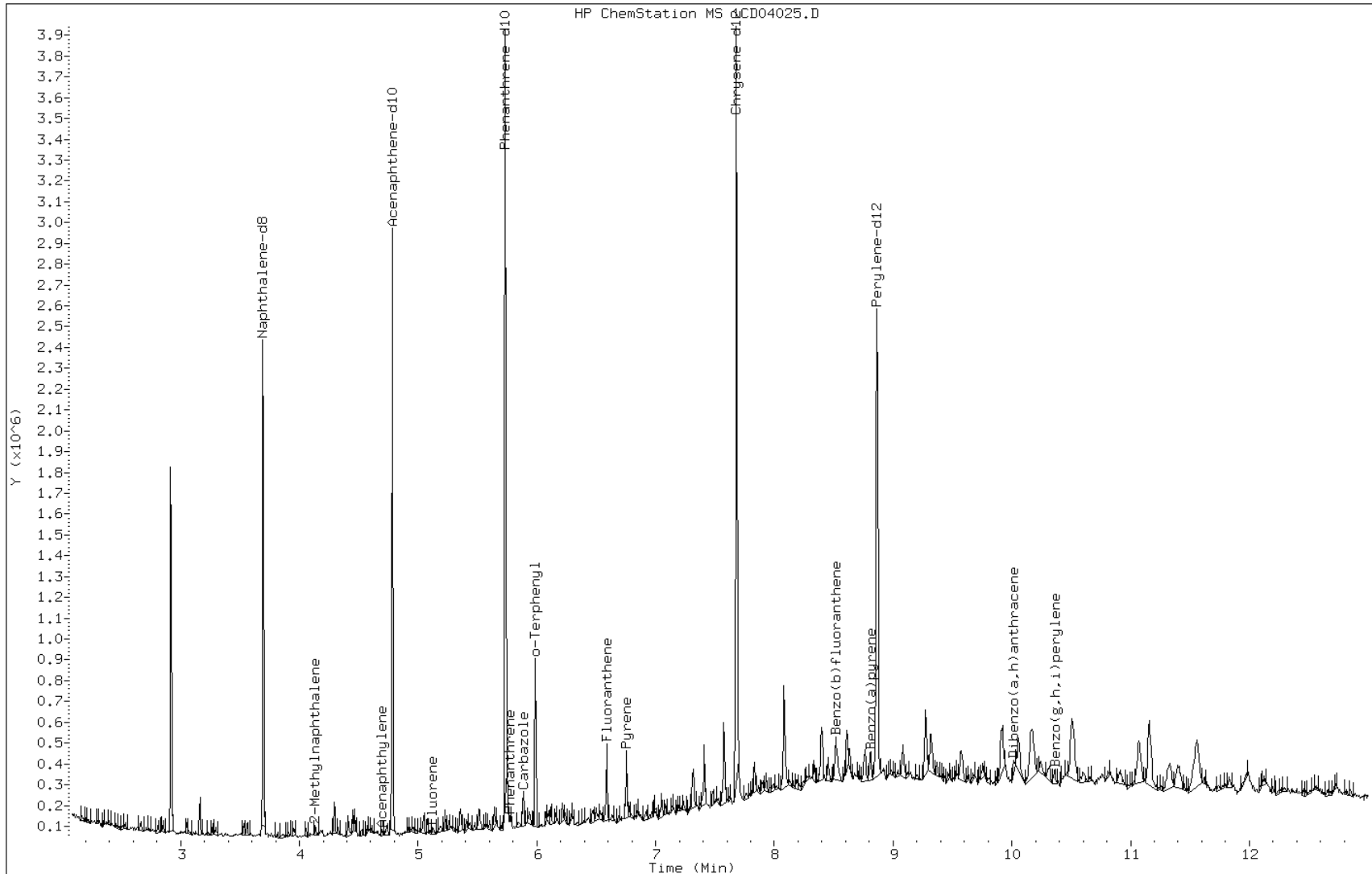
Date: 04-APR-2013 18:34

Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

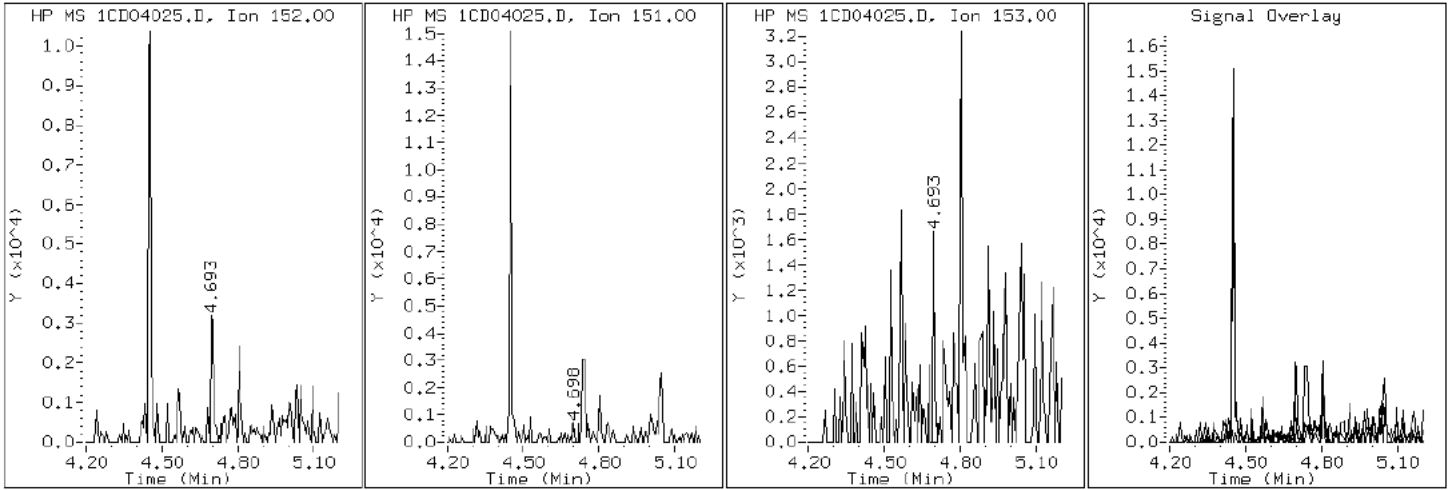
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

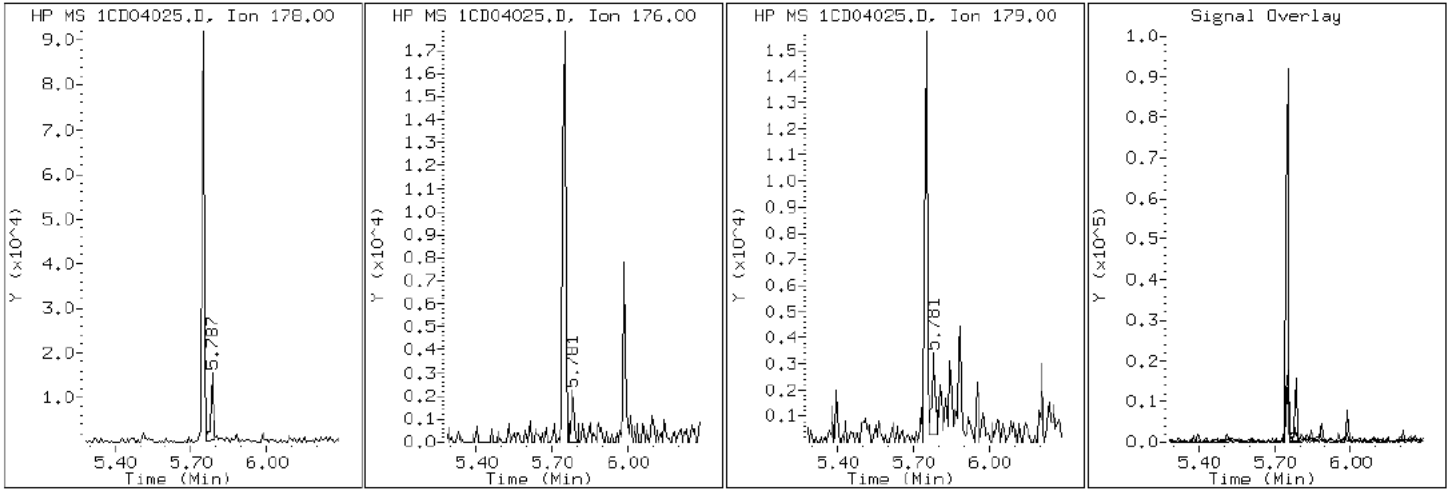
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

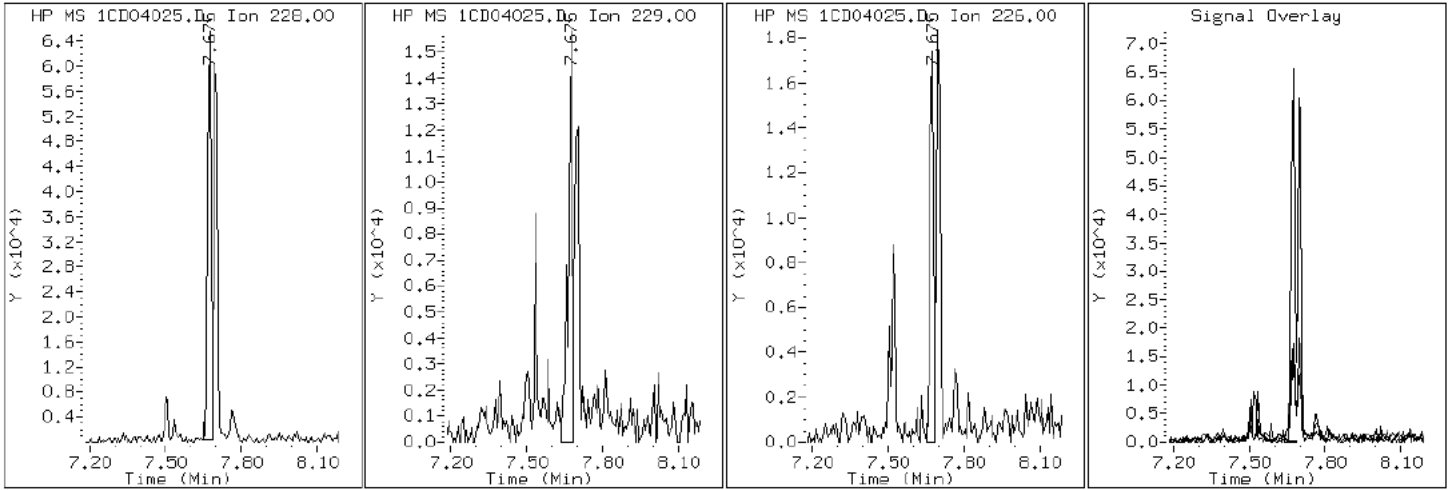
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

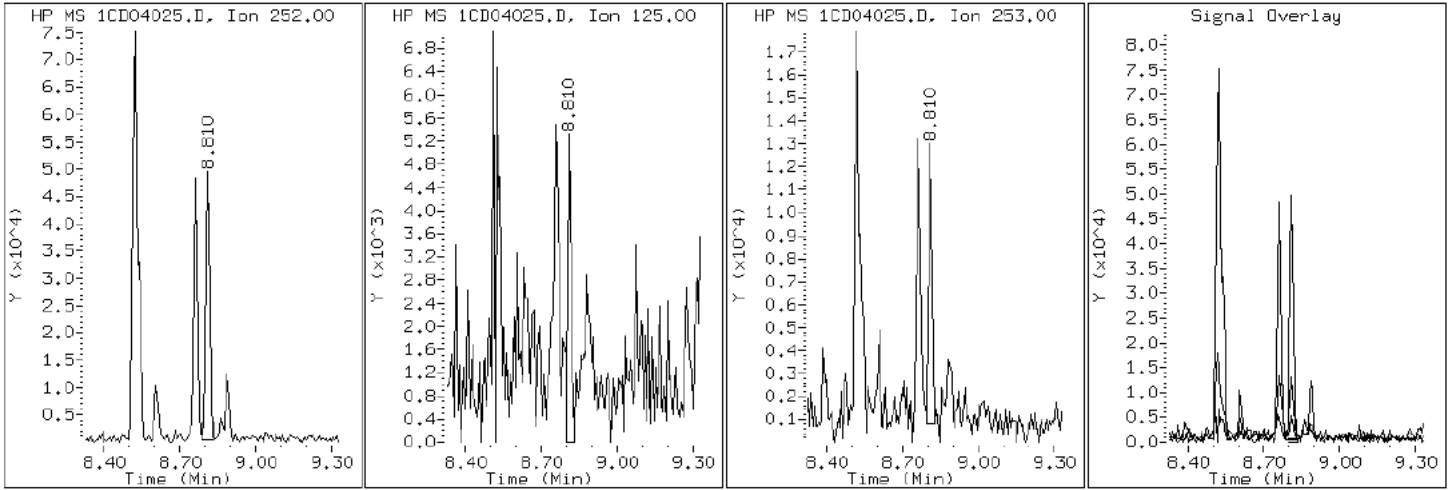
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD04025.D

Date: 04-APR-2013 18:34

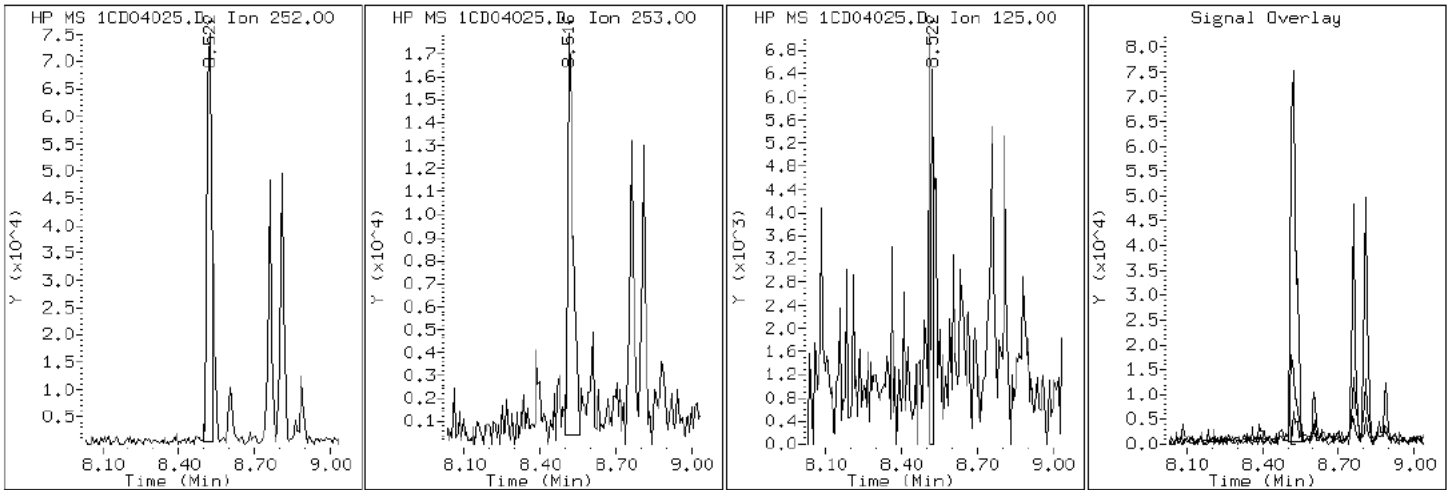
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

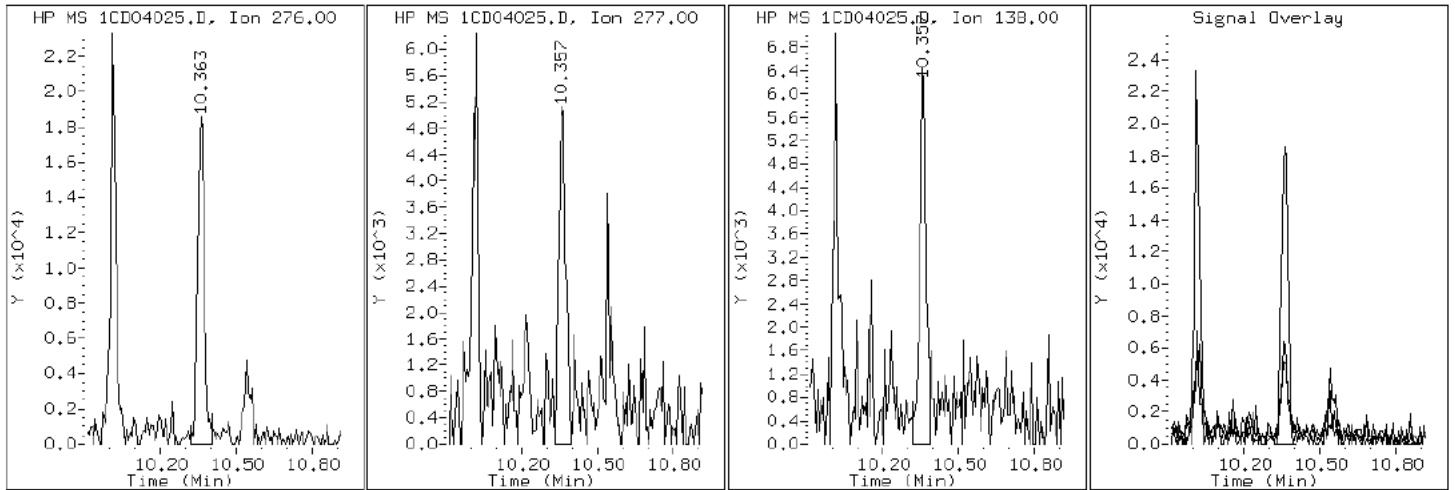
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

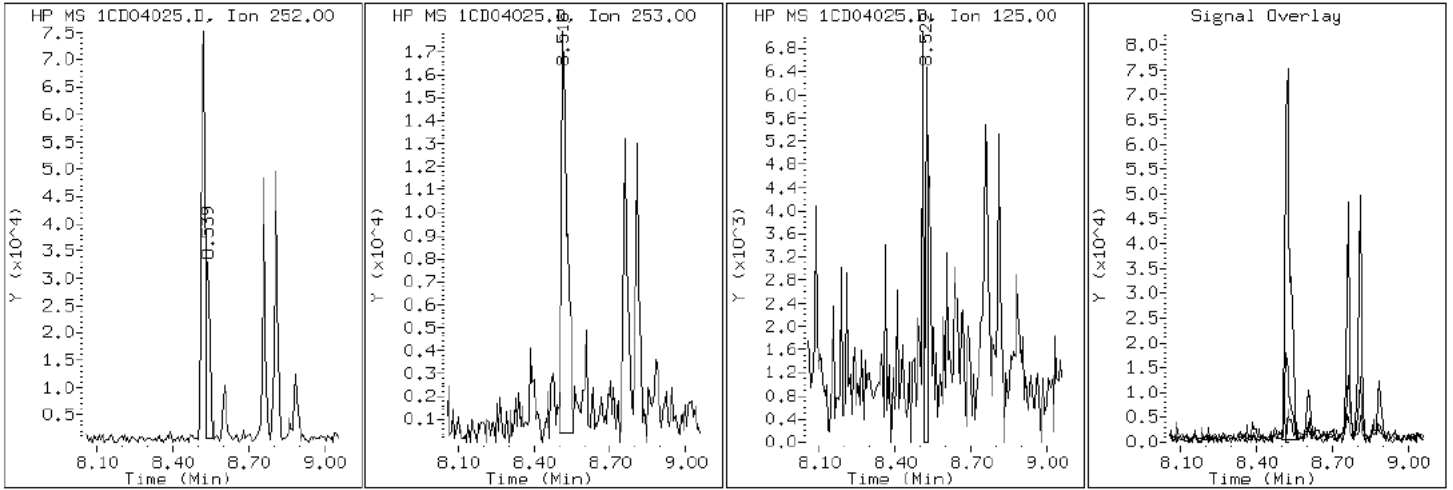
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

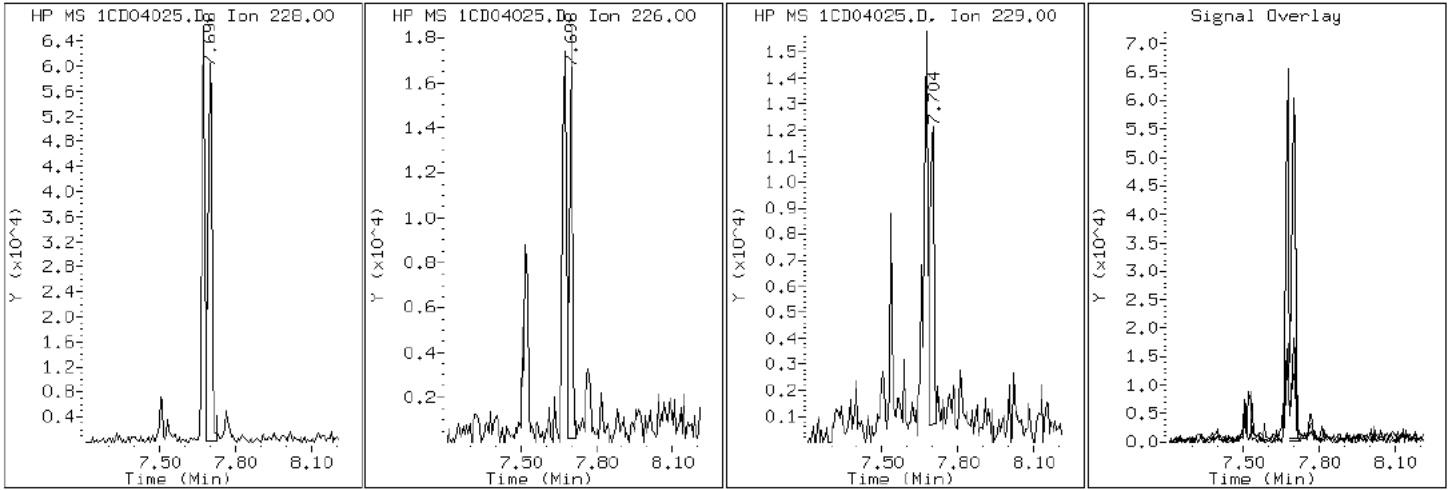
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

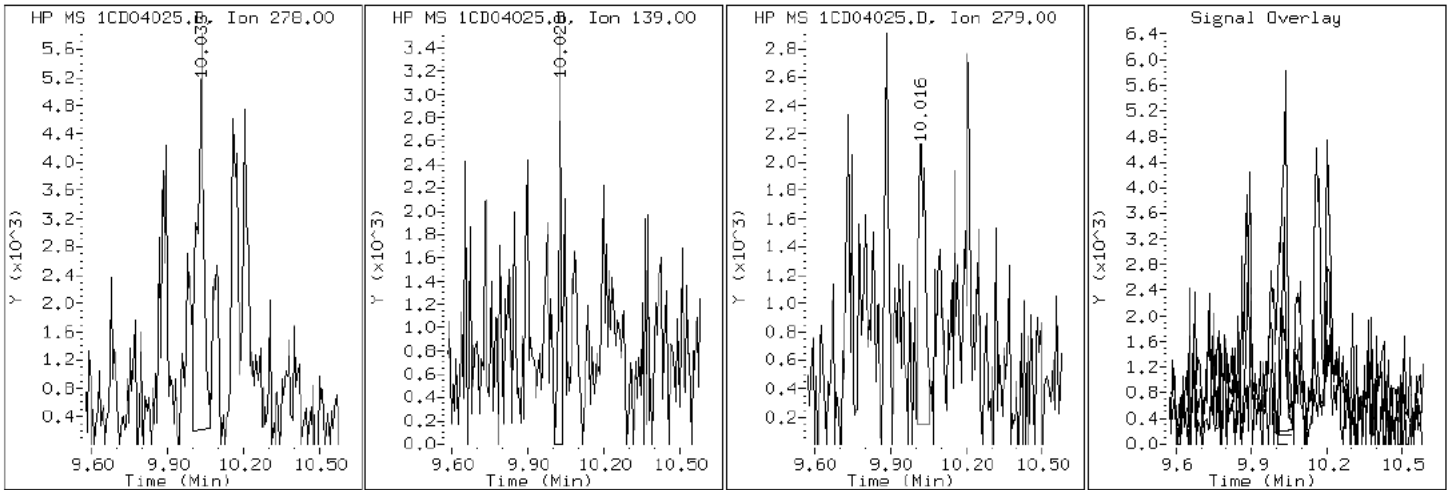
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

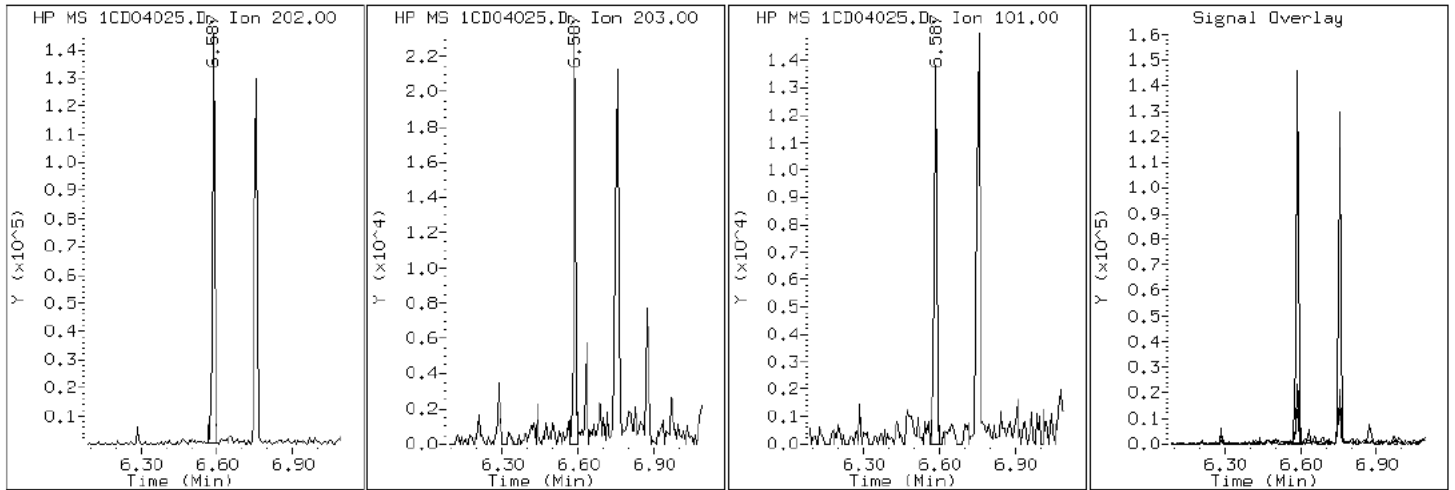
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

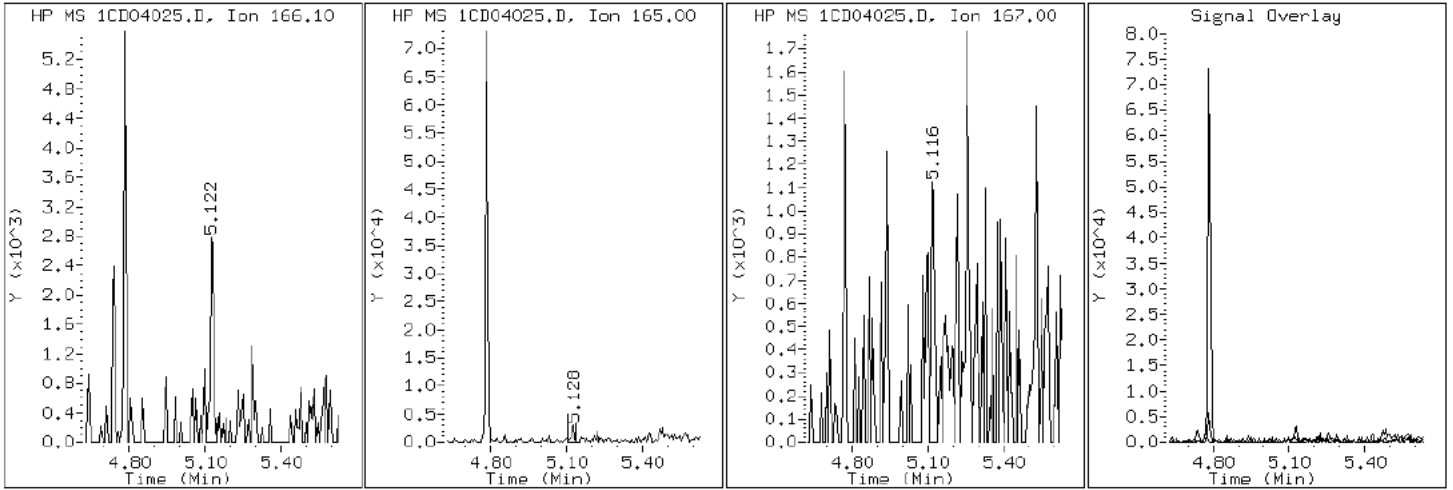
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

9 Fluorene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

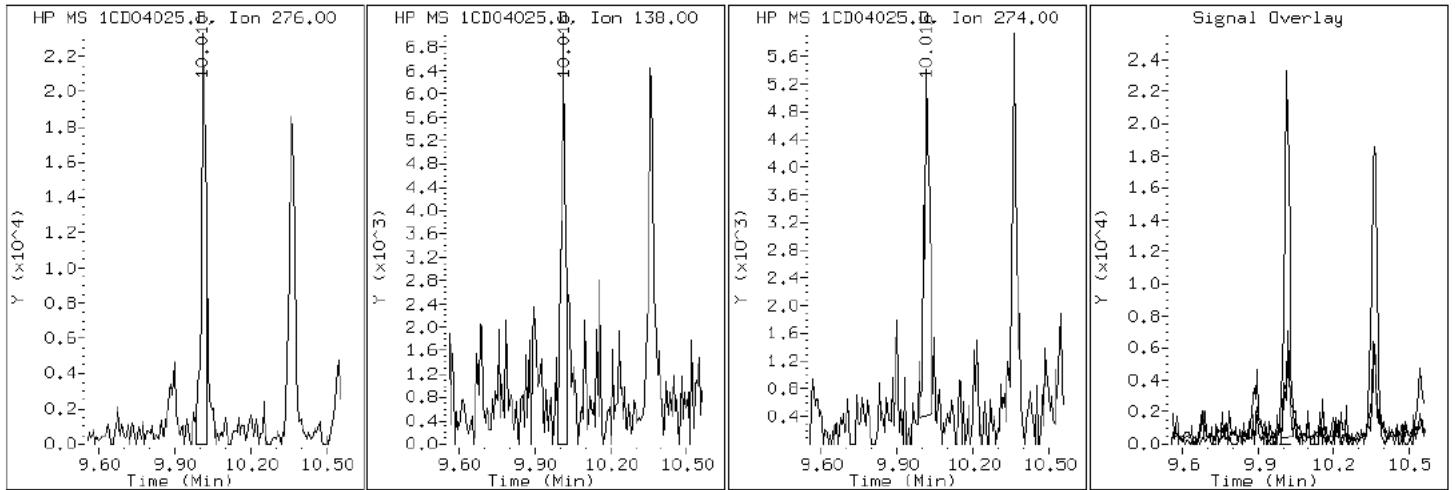
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

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





Data File: 1CD04025.D

Date: 04-APR-2013 18:34

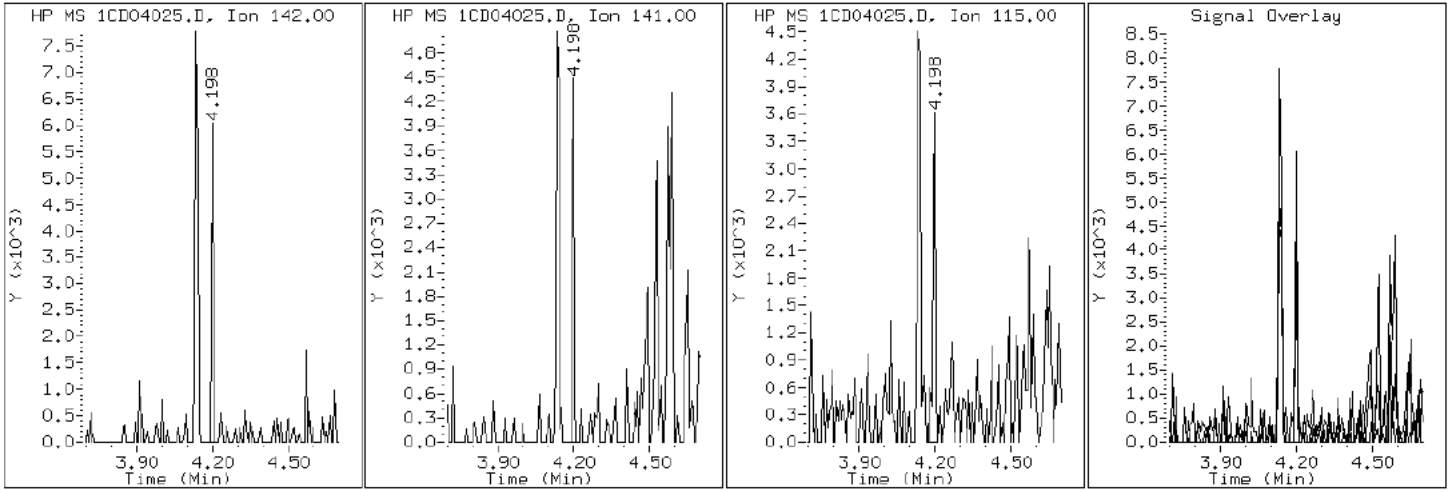
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

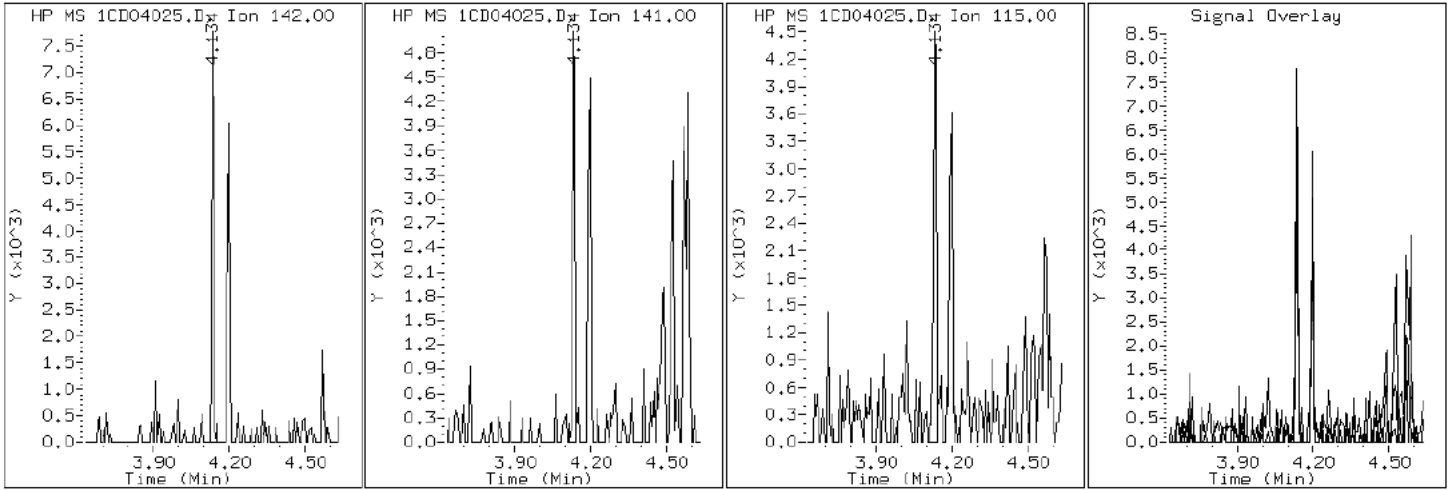
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

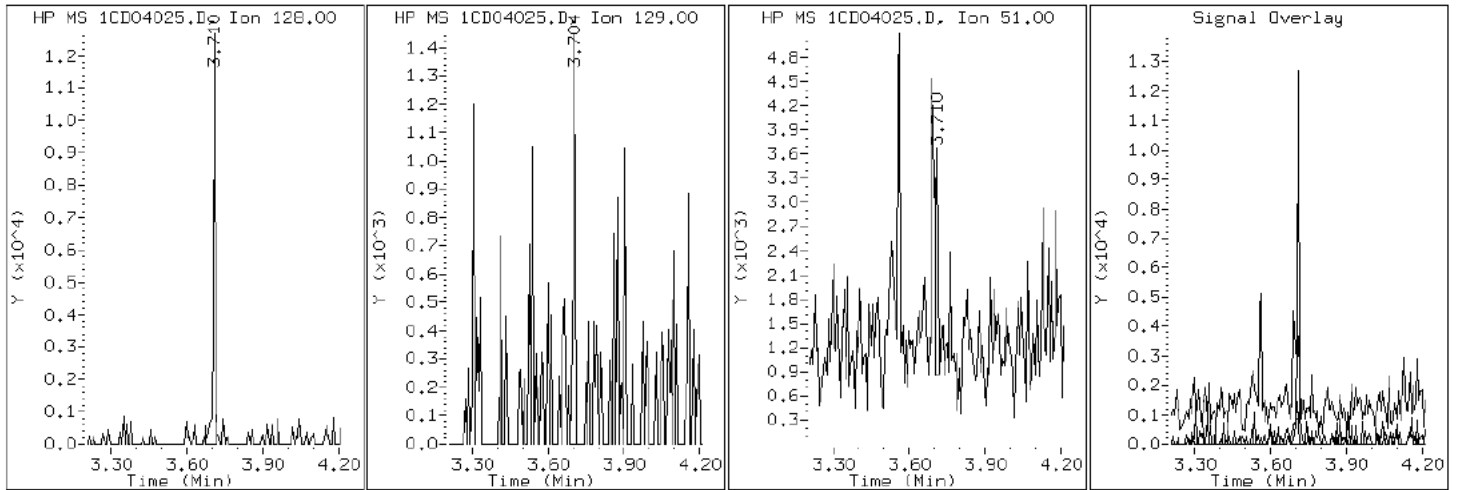
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

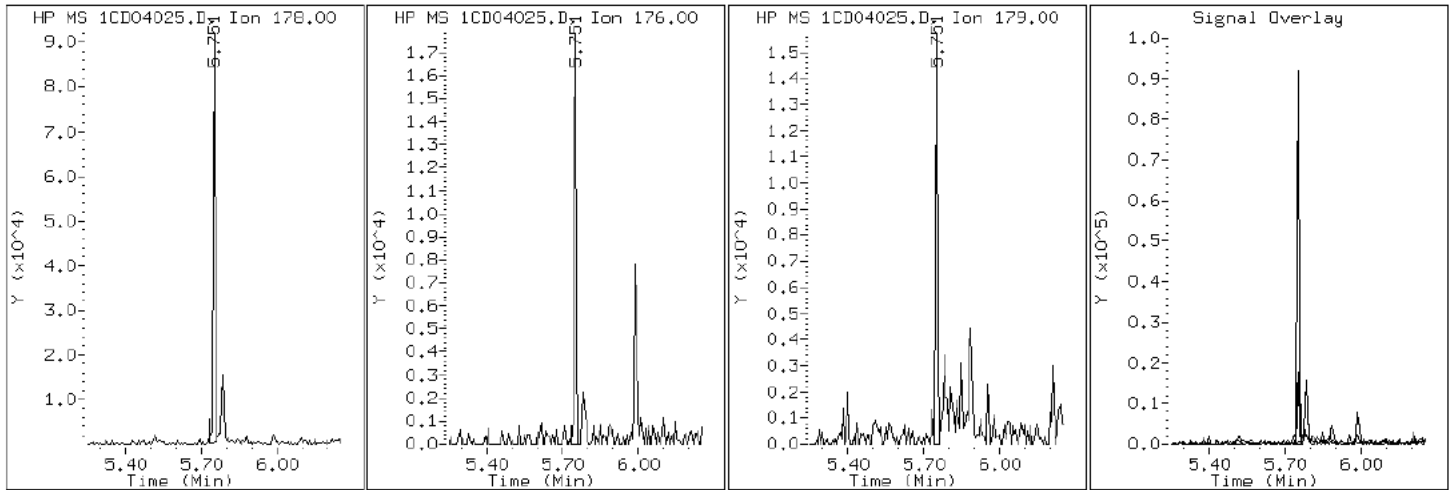
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04025.D

Date: 04-APR-2013 18:34

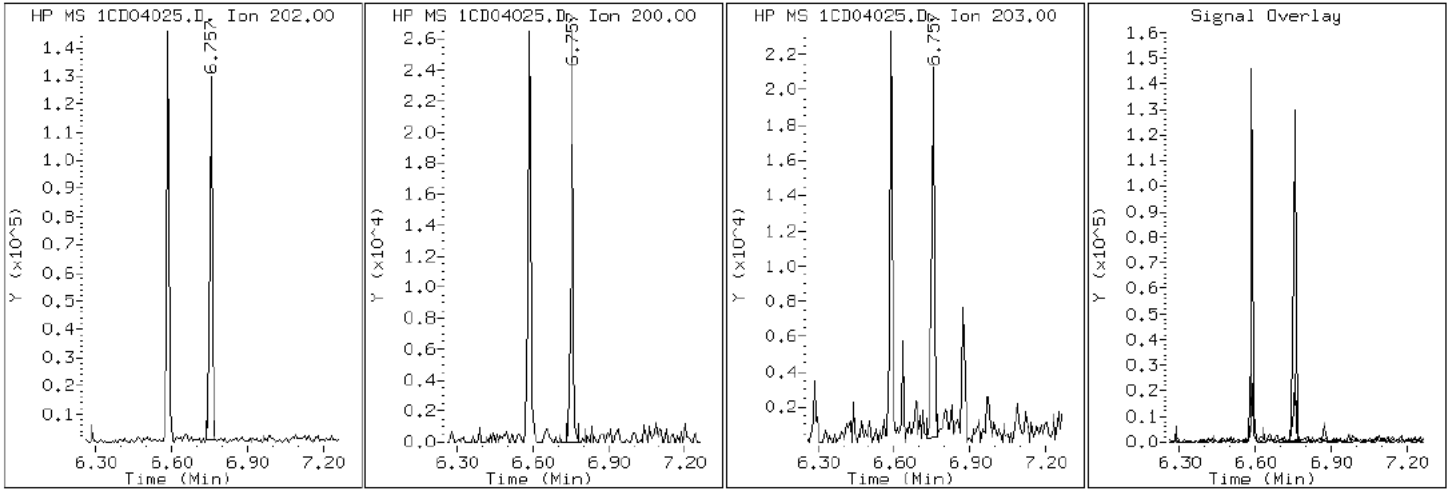
Client ID: CV0509F-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-a

Operator: SCC

16 Pyrene

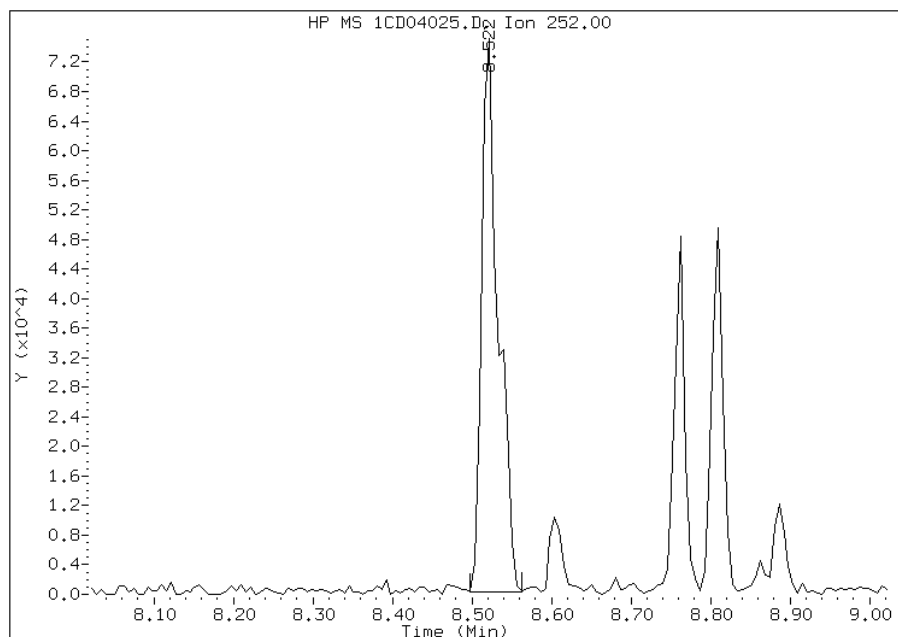


# Manual Integration Report

Data File: 1CD04025.D  
Inj. Date and Time: 04-APR-2013 18:34  
Instrument ID: BSMC5973.i  
Client ID: CV0509F-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

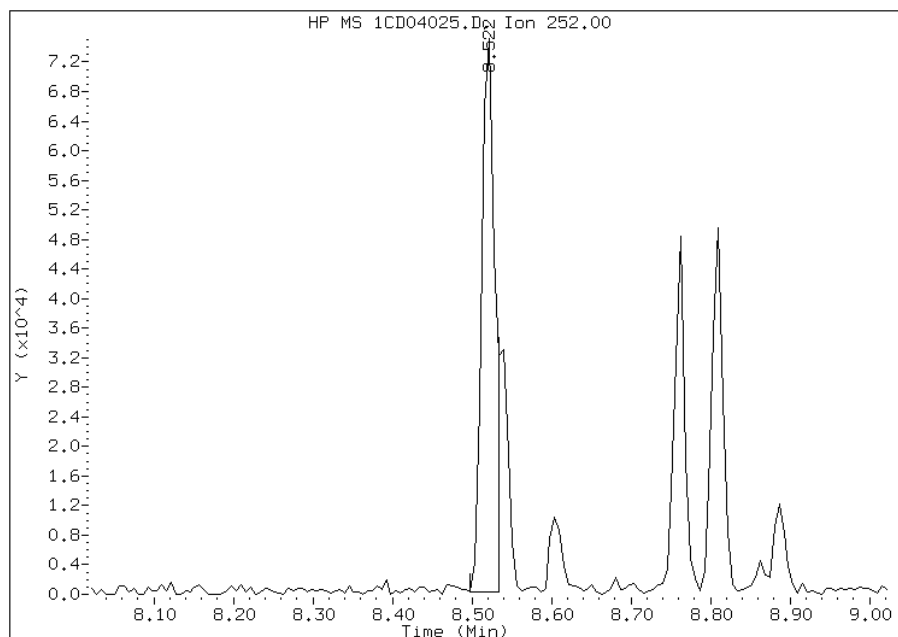
## Processing Integration Results

RT: 8.52  
Response: 107772  
Amount: 4  
Conc: 372



## Manual Integration Results

RT: 8.52  
Response: 86980  
Amount: 4  
Conc: 300



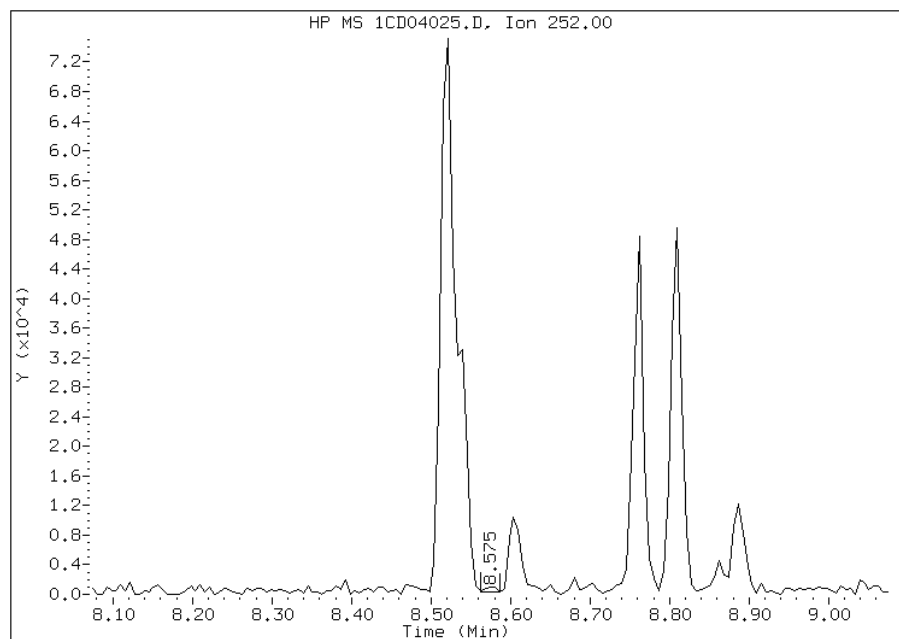
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:44  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04025.D  
Inj. Date and Time: 04-APR-2013 18:34  
Instrument ID: BSMC5973.i  
Client ID: CV0509F-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

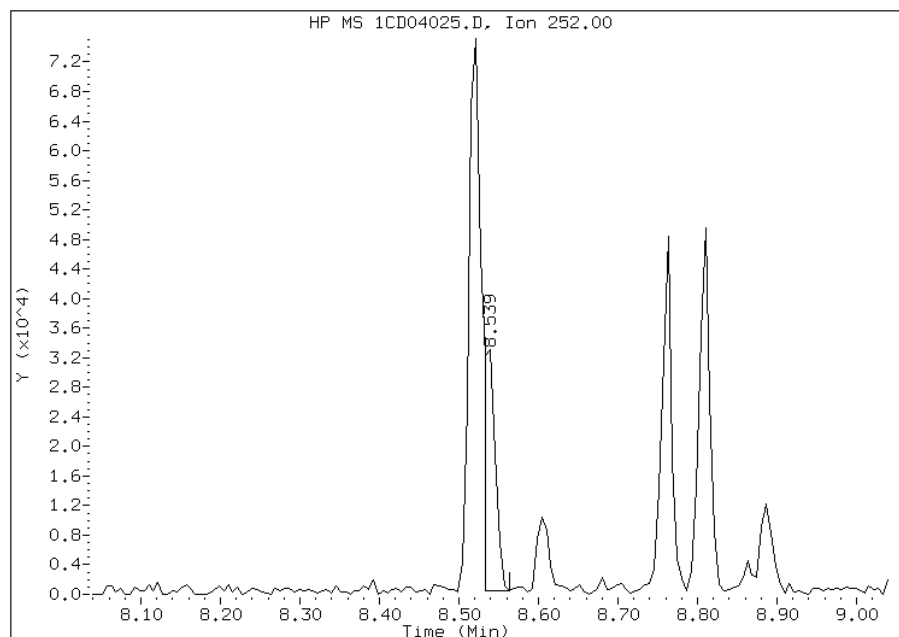
## Processing Integration Results

RT: 8.57  
Response: 673  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 8.54  
Response: 31694  
Amount: 1  
Conc: 113



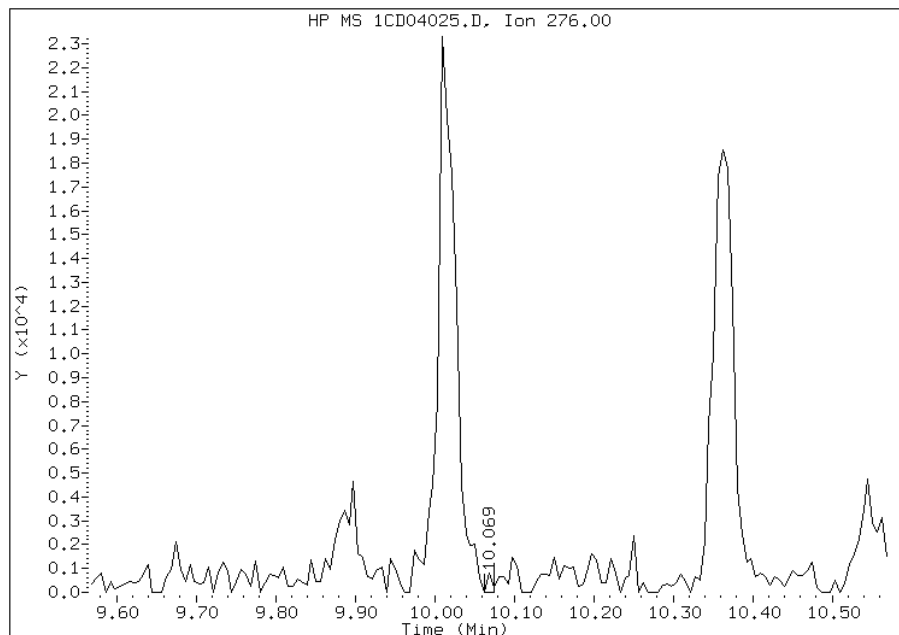
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:44  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04025.D  
Inj. Date and Time: 04-APR-2013 18:34  
Instrument ID: BSMC5973.i  
Client ID: CV0509F-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

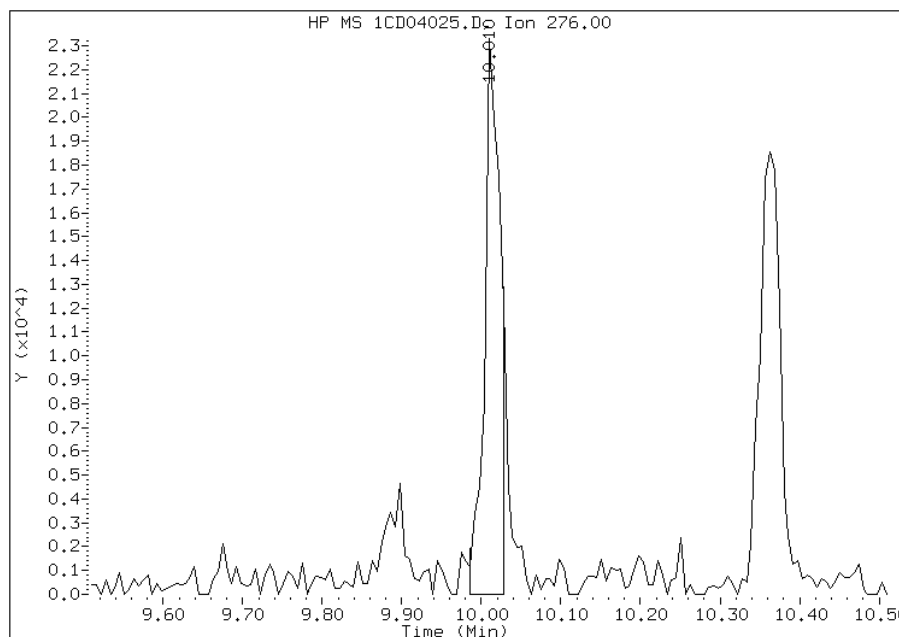
## Processing Integration Results

RT: 10.07  
Response: 358  
Amount: 0  
Conc: 1



## Manual Integration Results

RT: 10.01  
Response: 31754  
Amount: 1  
Conc: 122



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:44  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509G-CS Lab Sample ID: 680-88767-15  
 Matrix: Solid Lab File ID: 1CD04028.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:58  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.02(g) Date Analyzed: 04/04/2013 19:29  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 29.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	18	J	57	7.1
120-12-7	Anthracene	28		12	6.0
56-55-3	Benzo[a]anthracene	200		11	5.6
50-32-8	Benzo[a]pyrene	130		15	7.4
205-99-2	Benzo[b]fluoranthene	180		17	8.7
191-24-2	Benzo[g,h,i]perylene	85		28	6.3
207-08-9	Benzo[k]fluoranthene	86		11	5.1
218-01-9	Chrysene	190		13	6.4
53-70-3	Dibenz(a,h)anthracene	28		28	5.8
206-44-0	Fluoranthene	180		28	5.7
86-73-7	Fluorene	8.3	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	87		28	10
90-12-0	1-Methylnaphthalene	20	J	57	6.3
91-57-6	2-Methylnaphthalene	23	J	57	10
91-20-3	Naphthalene	37	J	57	6.3
85-01-8	Phenanthrene	77		11	5.6
129-00-0	Pyrene	190		28	5.3

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04028.D  
 Lab Smp Id: 680-88767-A-15-A Client Smp ID: CV0509G-CS  
 Inj Date : 04-APR-2013 19:29  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-15-a  
 Misc Info : 680-88767-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins 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	15.020	Weight Extracted
M	29.908	% 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		3.698	3.692	(1.000)	522679	40.0000	
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	388245	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	771567	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	62759	5.70869	542.2483
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	871205	40.0000	
* 23 Perylene-d12	264		8.868	8.886	(1.000)	841819	40.0000	
2 Naphthalene	128		3.710	3.710	(1.003)	5226	0.38928	36.9759
3 2-Methylnaphthalene	142		4.133	4.133	(1.118)	2210	0.24183	22.9708(Q)
4 1-Methylnaphthalene	142		4.198	4.198	(1.135)	1732	0.21063	20.0070
5 Acenaphthylene	152		4.698	4.698	(0.982)	3123	0.19436	18.4611
9 Fluorene	166		5.122	5.127	(1.070)	1155	0.08706	8.2690(Q)
11 Phenanthrene	178		5.751	5.751	(1.003)	18204	0.81009	76.9474
12 Anthracene	178		5.786	5.786	(1.009)	6743	0.29601	28.1169
13 Carbazole	167		5.892	5.898	(1.028)	3454	0.17698	16.8106

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.586	6.592 (1.149)		45834	1.84687	175.4279
16 Pyrene	202	6.757	6.763 (0.880)		47618	1.97314	187.4219
17 Benzo(a)anthracene	228	7.674	7.686 (0.999)		50820	2.14885	204.1117
19 Chrysene	228	7.704	7.710 (1.003)		50560	2.03661	193.4505
20 Benzo(b)fluoranthene	252	8.521	8.533 (0.961)		44182	1.85647	176.3393
21 Benzo(k)fluoranthene	252	8.539	8.557 (0.963)		20821	0.90456	85.9207
22 Benzo(a)pyrene	252	8.810	8.827 (0.993)		31038	1.38524	131.5794
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056 (1.129)		19493	0.91596	87.0033(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.074 (1.131)		5754	0.29269	27.8013
26 Benzo(g,h,i)perylene	276	10.356	10.415 (1.168)		19508	0.89814	85.3112(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: 1CD04028.D

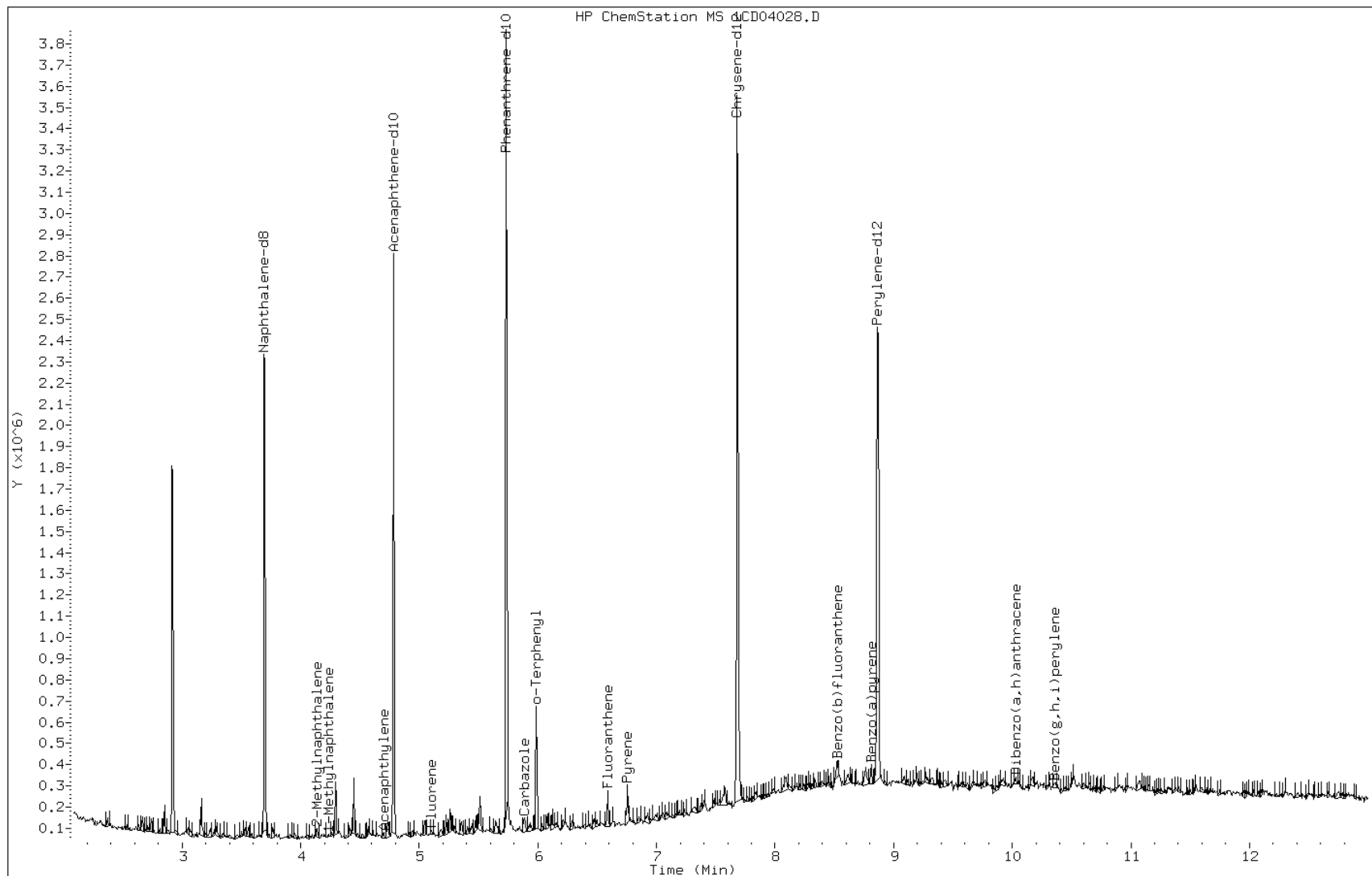
Date: 04-APR-2013 19:29

Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

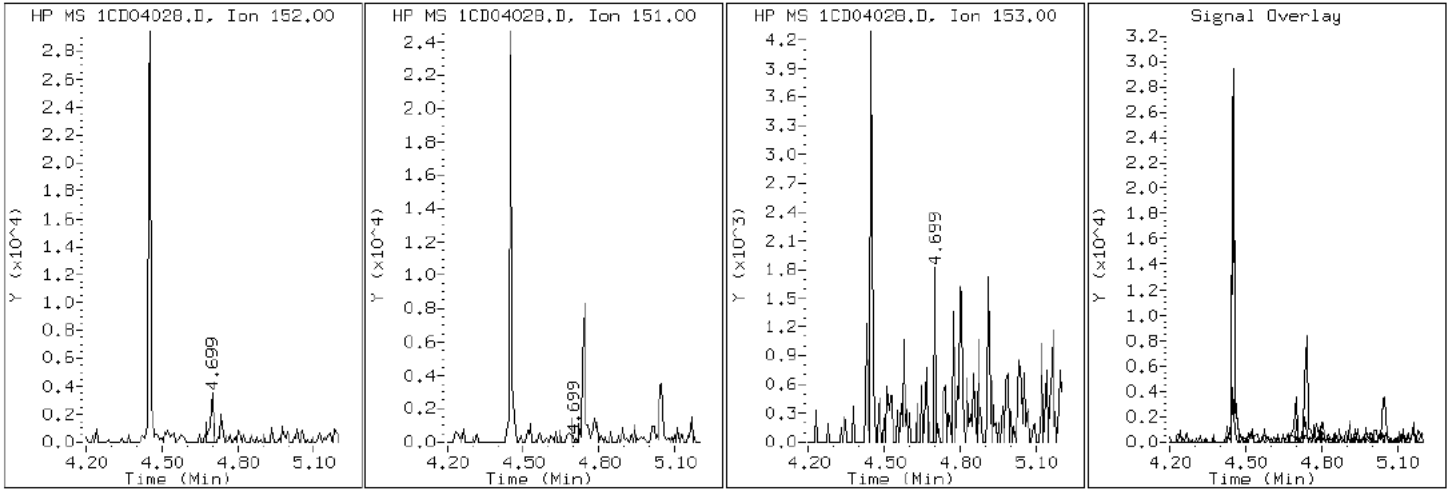
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

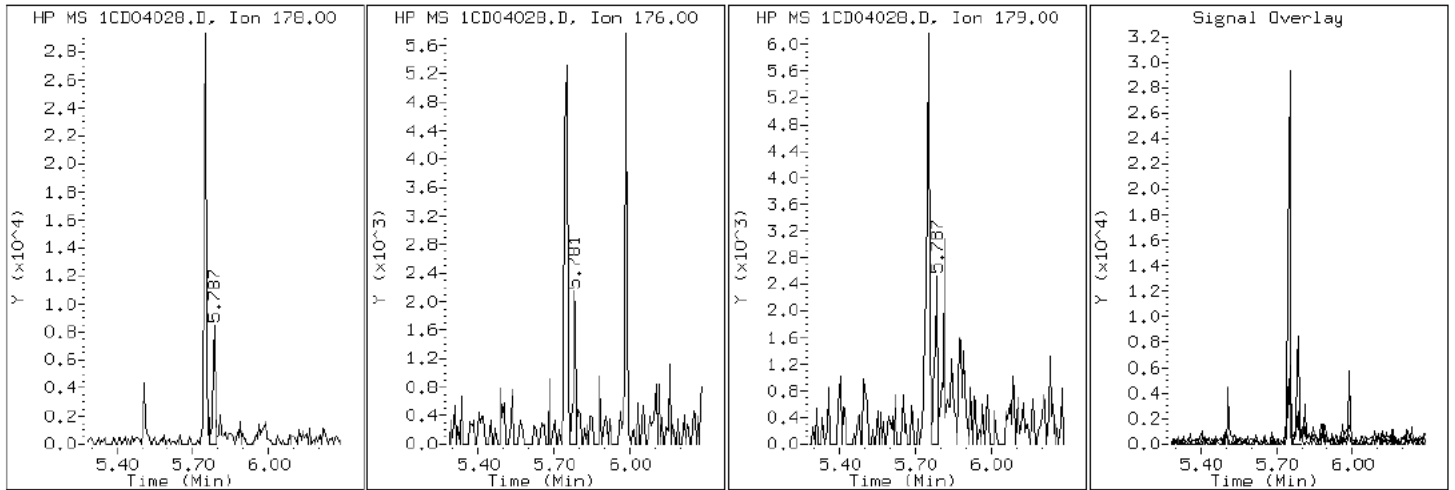
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

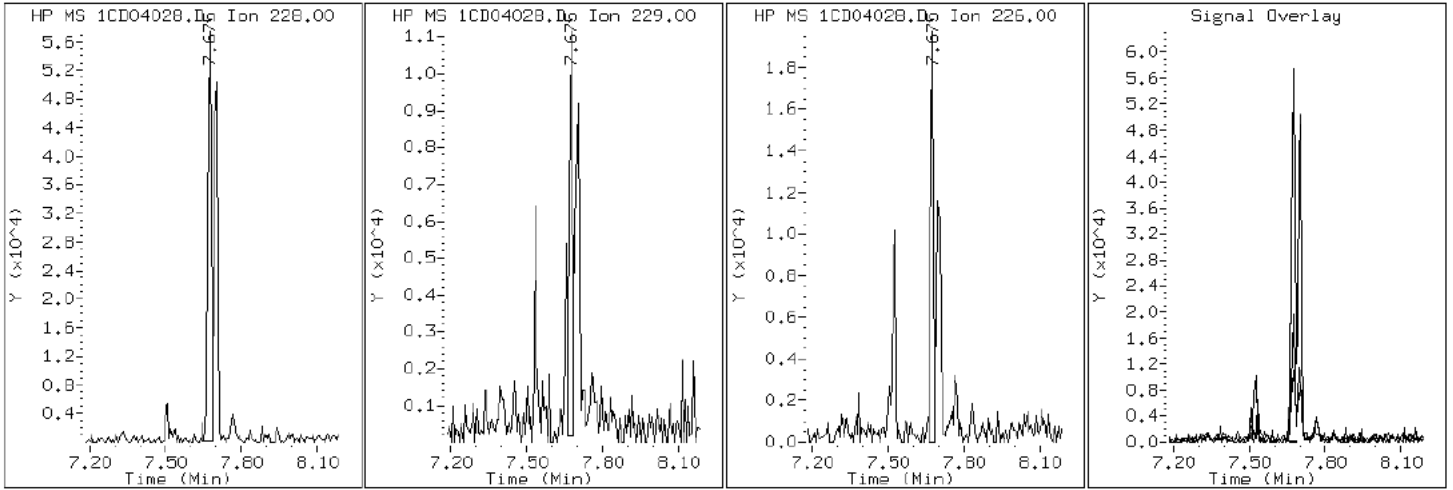
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

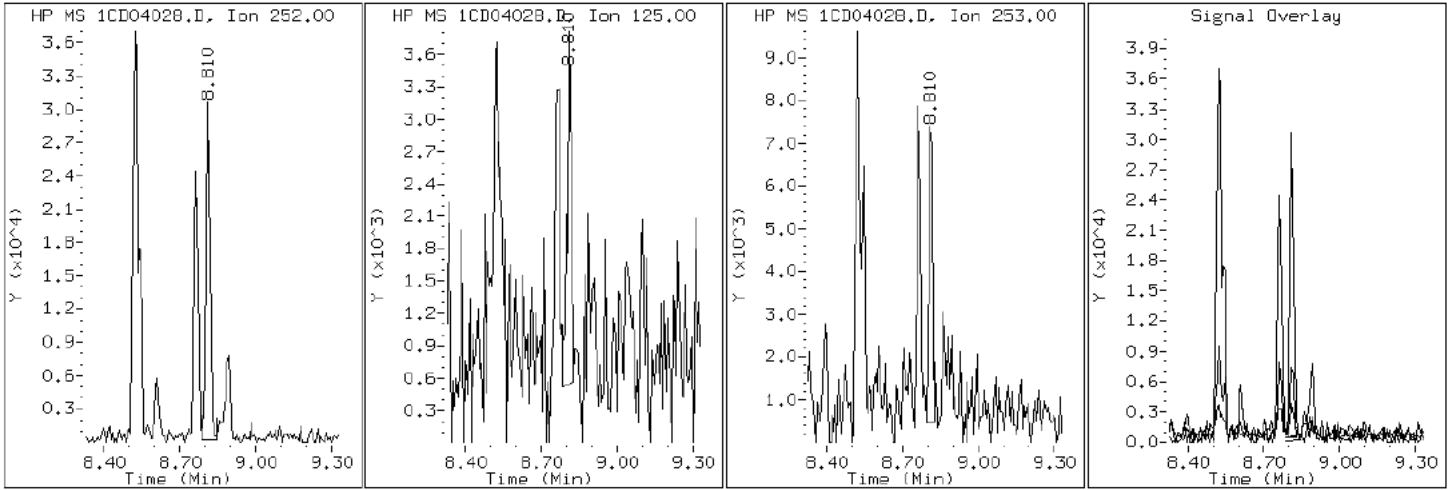
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD04028.D

Date: 04-APR-2013 19:29

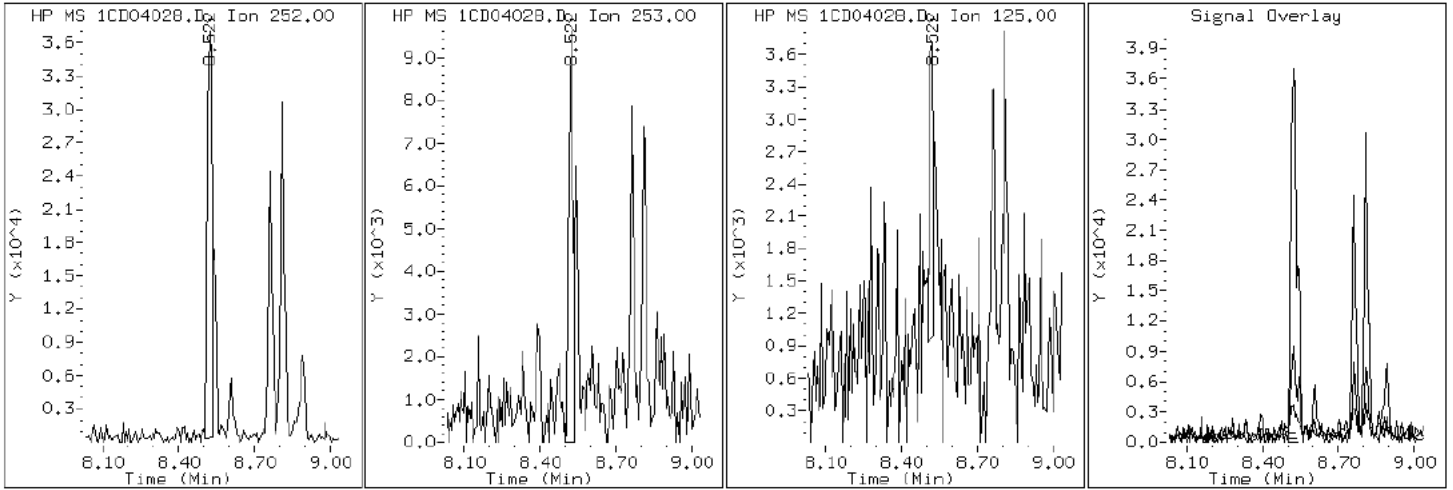
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

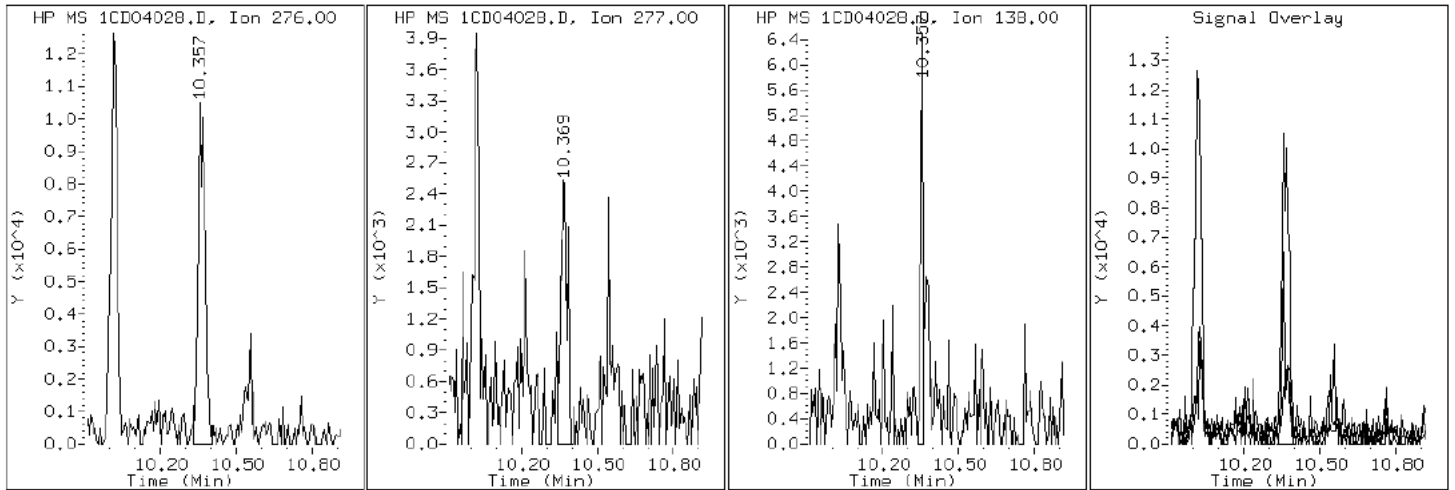
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

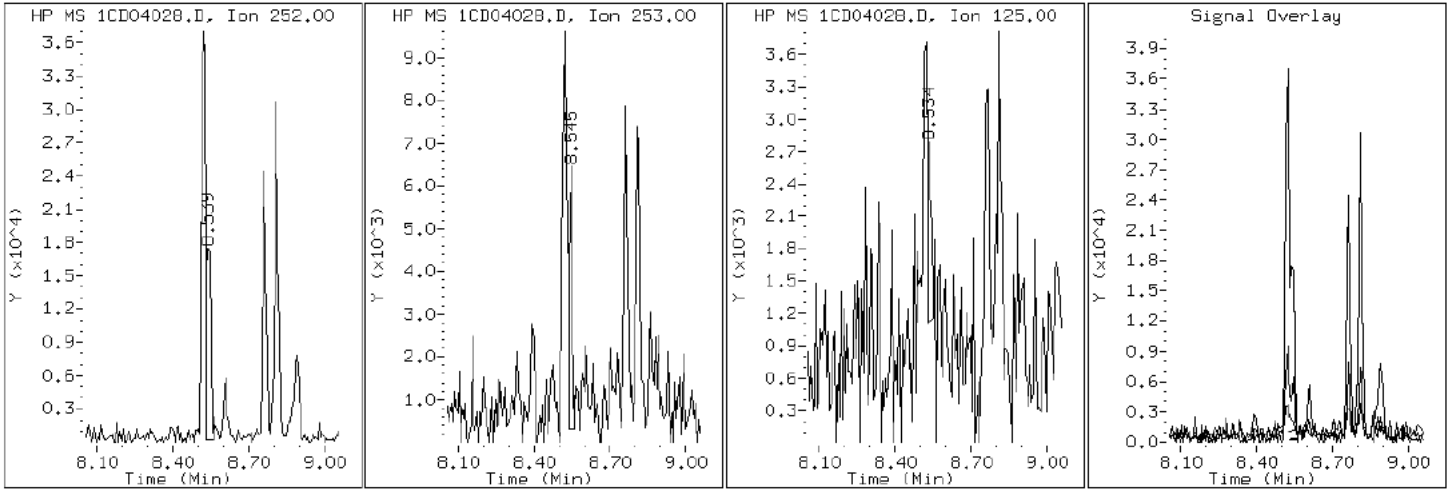
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

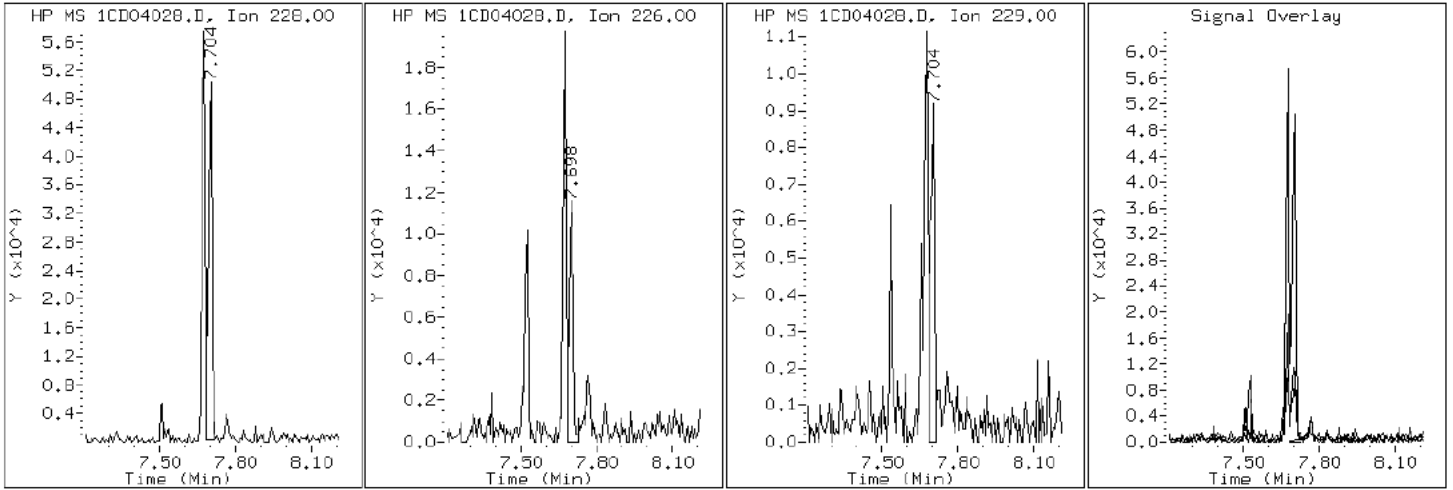
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

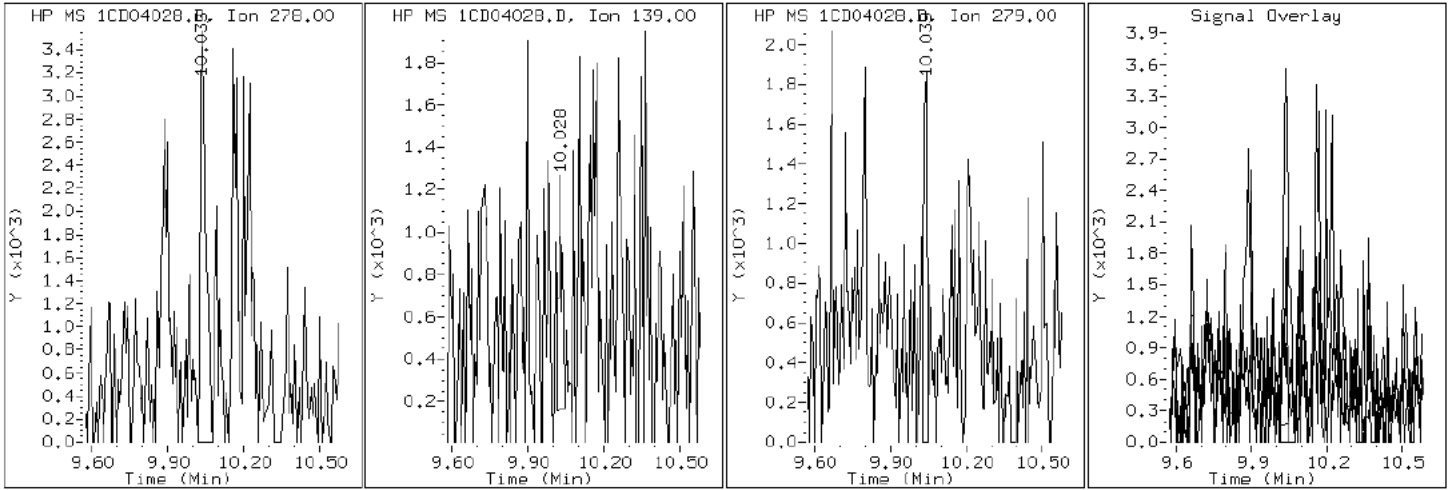
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

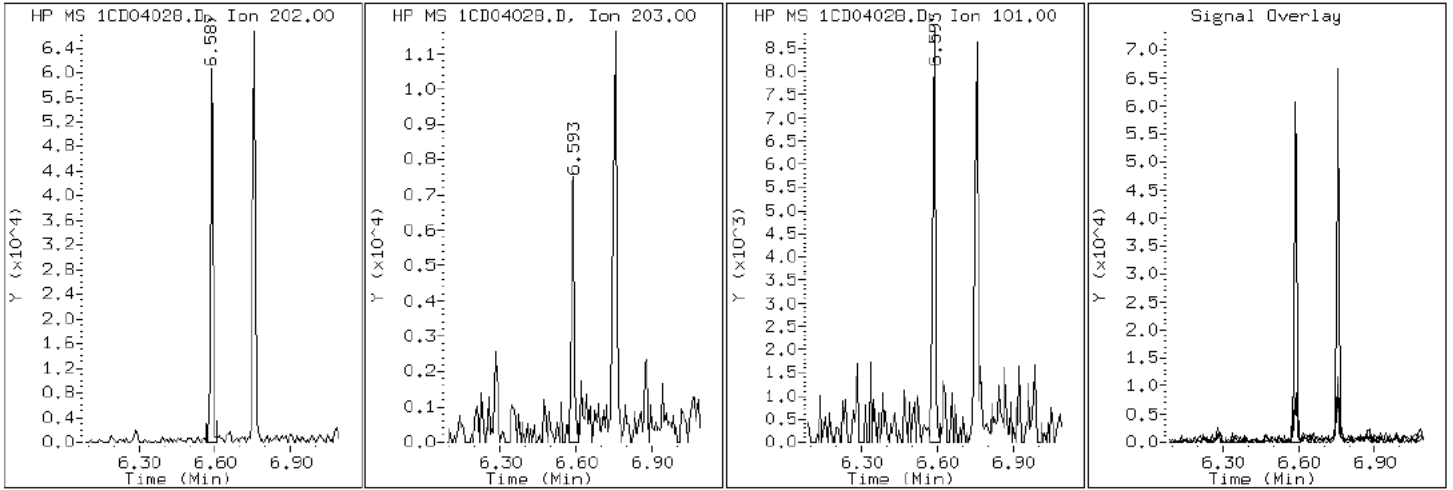
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

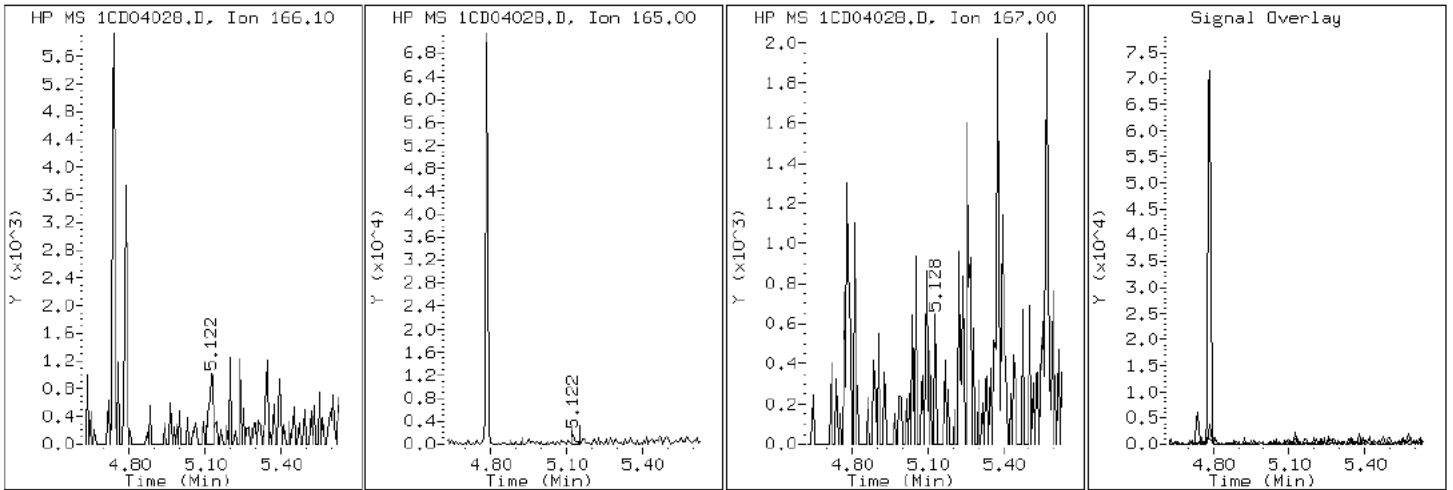
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

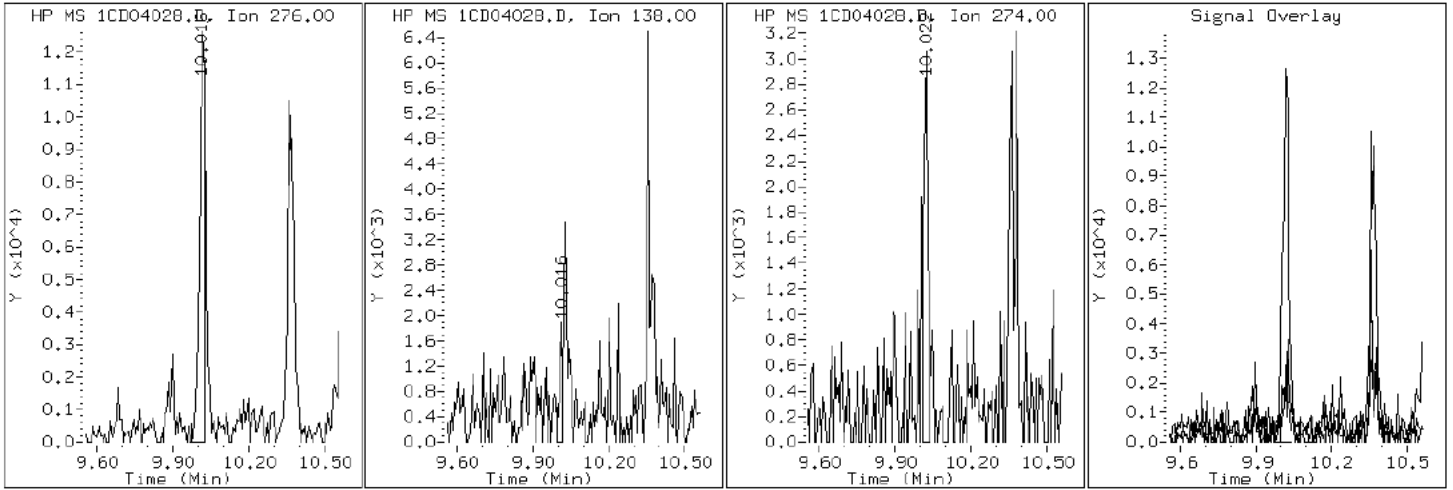
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

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





Data File: 1CD04028.D

Date: 04-APR-2013 19:29

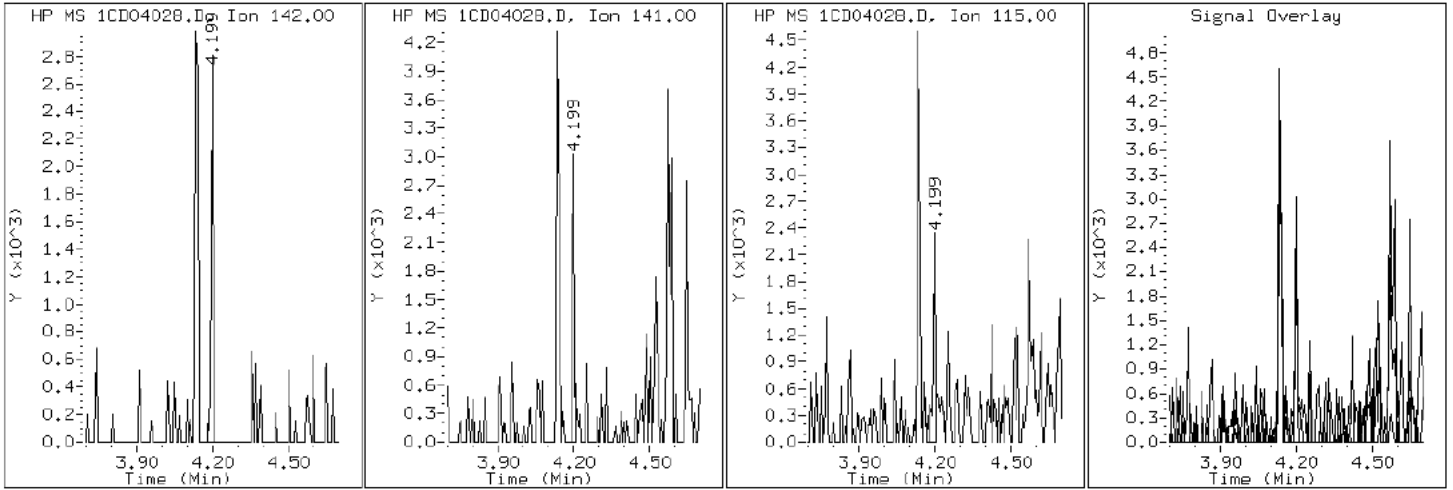
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

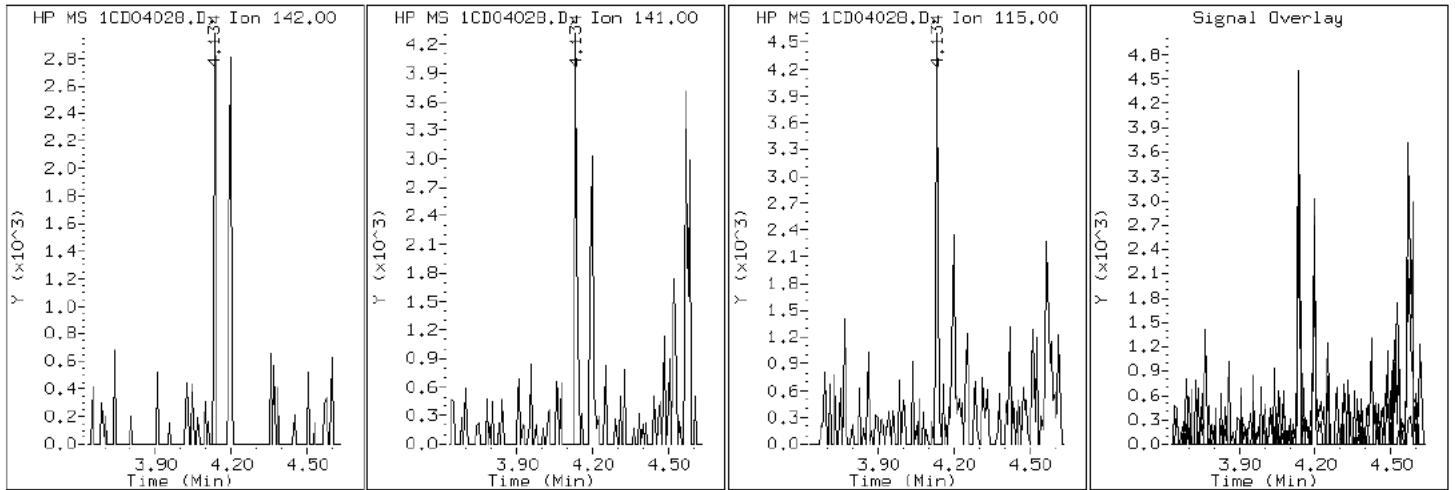
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

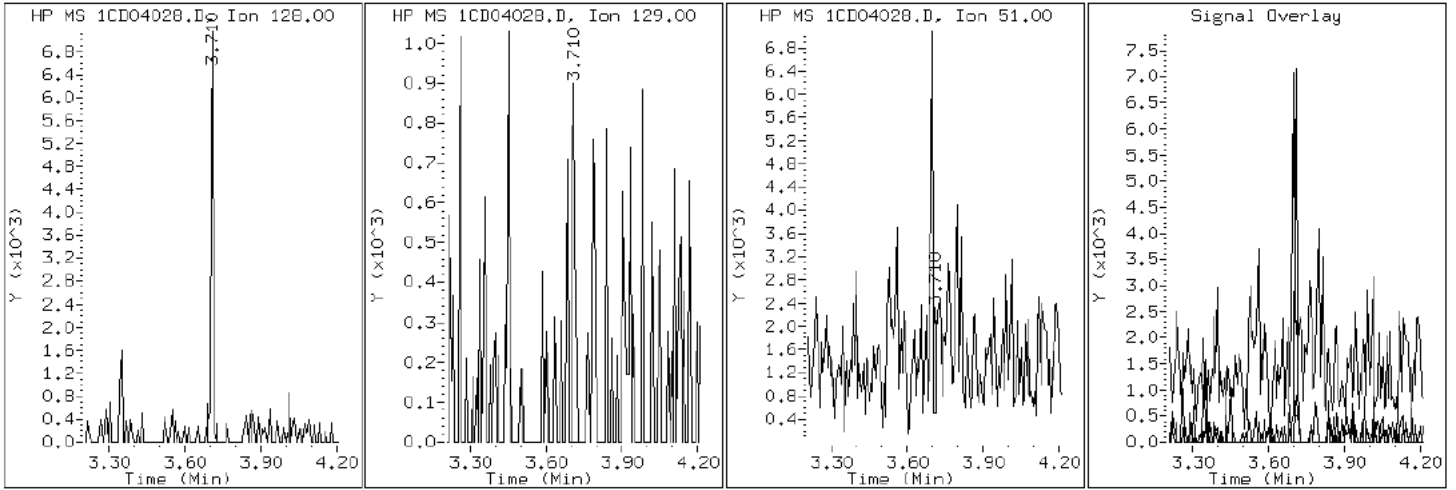
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

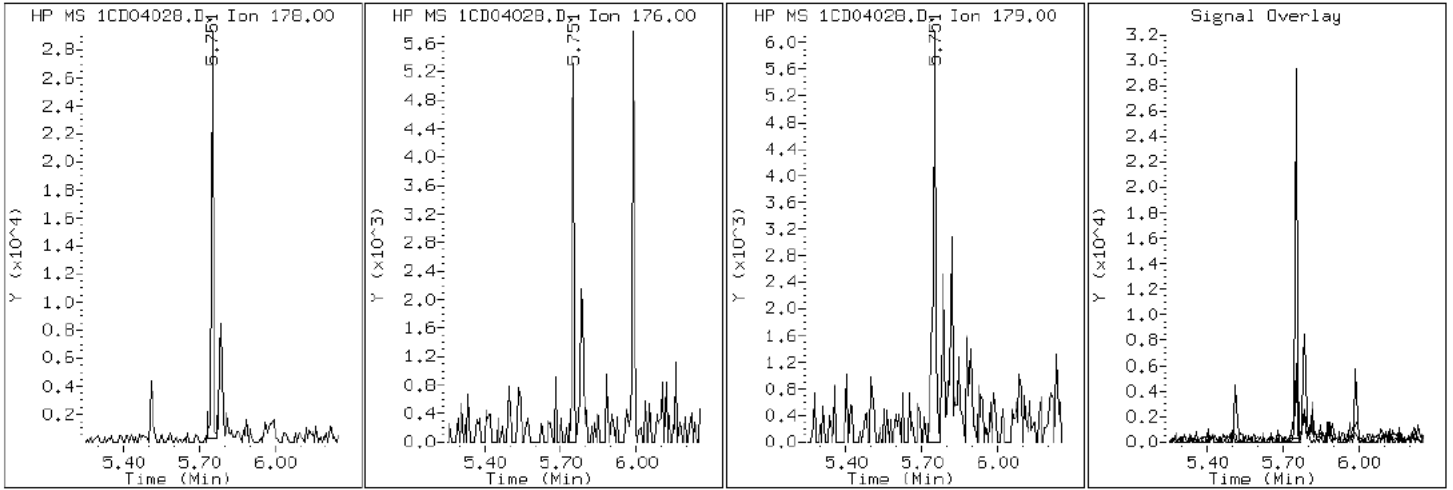
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04028.D

Date: 04-APR-2013 19:29

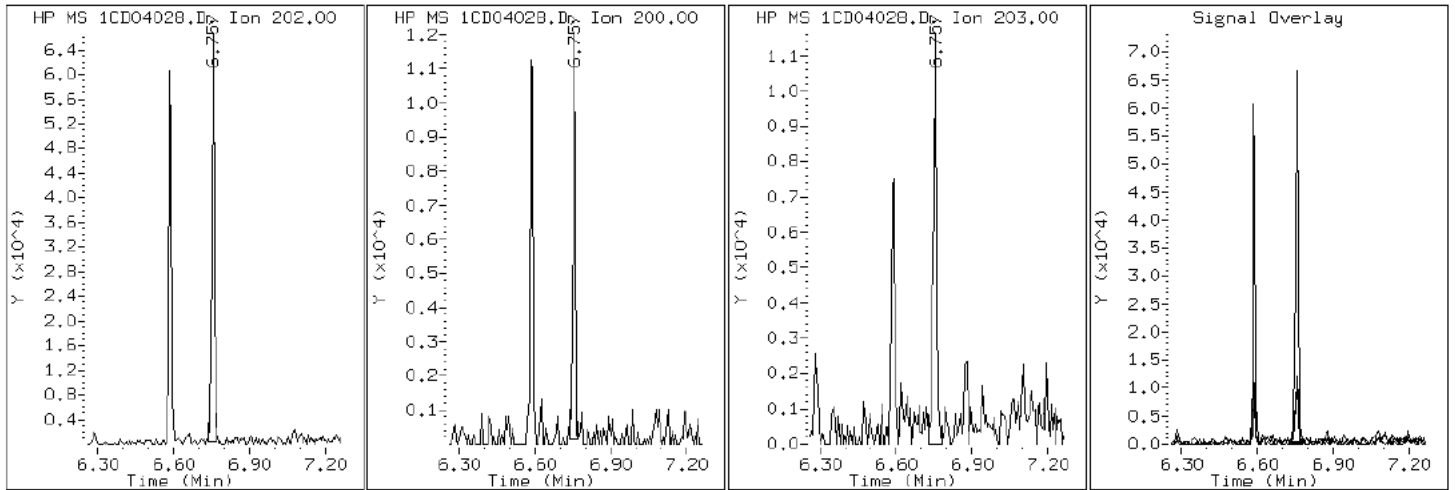
Client ID: CV0509G-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-15-a

Operator: SCC

16 Pyrene

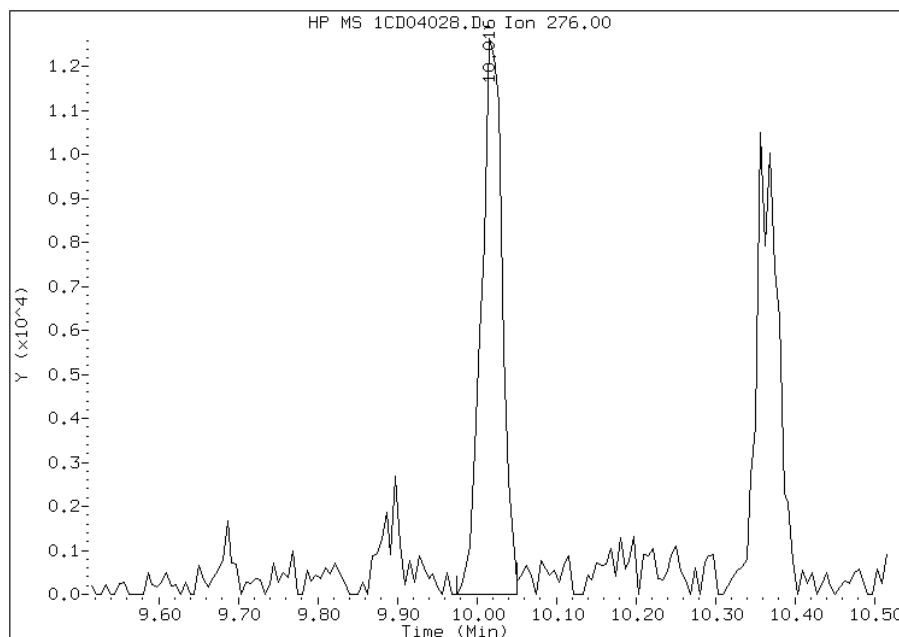


# Manual Integration Report

Data File: 1CD04028.D  
Inj. Date and Time: 04-APR-2013 19:29  
Instrument ID: BSMC5973.i  
Client ID: CV0509G-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

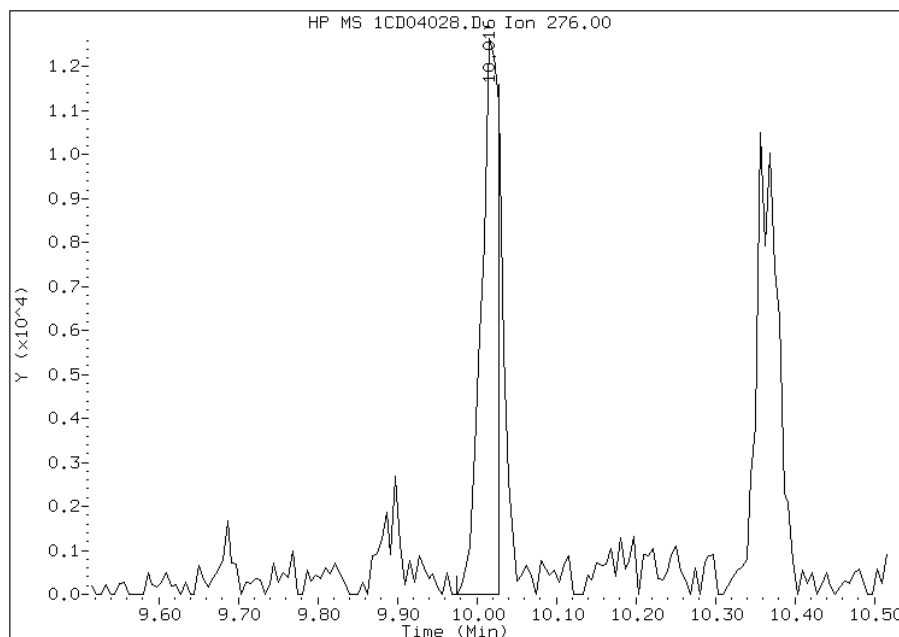
## Processing Integration Results

RT: 10.02  
Response: 23033  
Amount: 1  
Conc: 103



## Manual Integration Results

RT: 10.02  
Response: 19493  
Amount: 1  
Conc: 87



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509H-CS Lab Sample ID: 680-88767-16  
 Matrix: Solid Lab File ID: 1CD04029.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:05  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/04/2013 19:47  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	J	490	98
208-96-8	Acenaphthylene	79	J	200	25
120-12-7	Anthracene	280		41	21
56-55-3	Benzo[a]anthracene	1100		39	19
50-32-8	Benzo[a]pyrene	840		51	26
205-99-2	Benzo[b]fluoranthene	1400		60	30
191-24-2	Benzo[g,h,i]perylene	570		98	22
207-08-9	Benzo[k]fluoranthene	510		39	18
218-01-9	Chrysene	990		44	22
53-70-3	Dibenz(a,h)anthracene	120		98	20
206-44-0	Fluoranthene	1900		98	20
86-73-7	Fluorene	120		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	560		98	35
90-12-0	1-Methylnaphthalene	140	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	35
91-20-3	Naphthalene	210		200	22
85-01-8	Phenanthrene	1400		39	19
129-00-0	Pyrene	1500		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	107		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04029.D  
 Lab Smp Id: 680-88767-A-16-A Client Smp ID: CV0509H-CS  
 Inj Date : 04-APR-2013 19:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-16-a  
 Misc Info : 680-88767-A-16-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 29  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	18.468	% 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		3.698	3.692 (1.000)		530140	40.0000	
* 6 Acenaphthene-d10	164		4.786	4.786 (1.000)		385286	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733 (1.000)		762041	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992 (1.044)		24247	2.67476	877.1764
* 18 Chrysene-d12	240		7.680	7.692 (1.000)		837953	40.0000	
* 23 Perylene-d12	264		8.862	8.886 (1.000)		797933	40.0000	(H)
2 Naphthalene	128		3.710	3.710 (1.003)		8782	0.64495	211.5094
3 2-Methylnaphthalene	142		4.133	4.133 (1.118)		4209	0.45409	148.9186
4 1-Methylnaphthalene	142		4.198	4.198 (1.135)		3460	0.41485	136.0498(Q)
5 Acenaphthylene	152		4.698	4.698 (0.982)		3825	0.23987	78.6649
7 Acenaphthene	154		4.804	4.804 (1.004)		4195	0.42475	139.2941
9 Fluorene	166		5.121	5.127 (1.070)		4911	0.37300	122.3230
11 Phenanthrene	178		5.751	5.751 (1.003)		92959	4.18844	1373.5841
12 Anthracene	178		5.786	5.786 (1.009)		19049	0.84668	277.6666



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898	(1.028)	11641	0.60393	198.0570
15 Fluoranthene	202	6.586	6.592	(1.149)	141858	5.78760	1898.0225
16 Pyrene	202	6.757	6.763	(0.880)	107376	4.62589	1517.0452
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	75516	3.24589	1064.4780
19 Chrysene	228	7.704	7.710	(1.003)	72304	3.02806	993.0410
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.962)	93161	4.12980	1354.3524(M)
21 Benzo(k)fluoranthene	252	8.533	8.557	(0.963)	34166	1.56596	513.5518(QMH)
22 Benzo(a)pyrene	252	8.809	8.827	(0.994)	54602	2.57095	843.1337(H)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056	(1.130)	34473	1.70894	560.4412(MH)
25 Dibenzo(a,h)anthracene	278	10.033	10.074	(1.132)	6644	0.35655	116.9282(QH)
26 Benzo(g,h,i)perylene	276	10.362	10.415	(1.169)	35680	1.73304	568.3450(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: 1CD04029.D

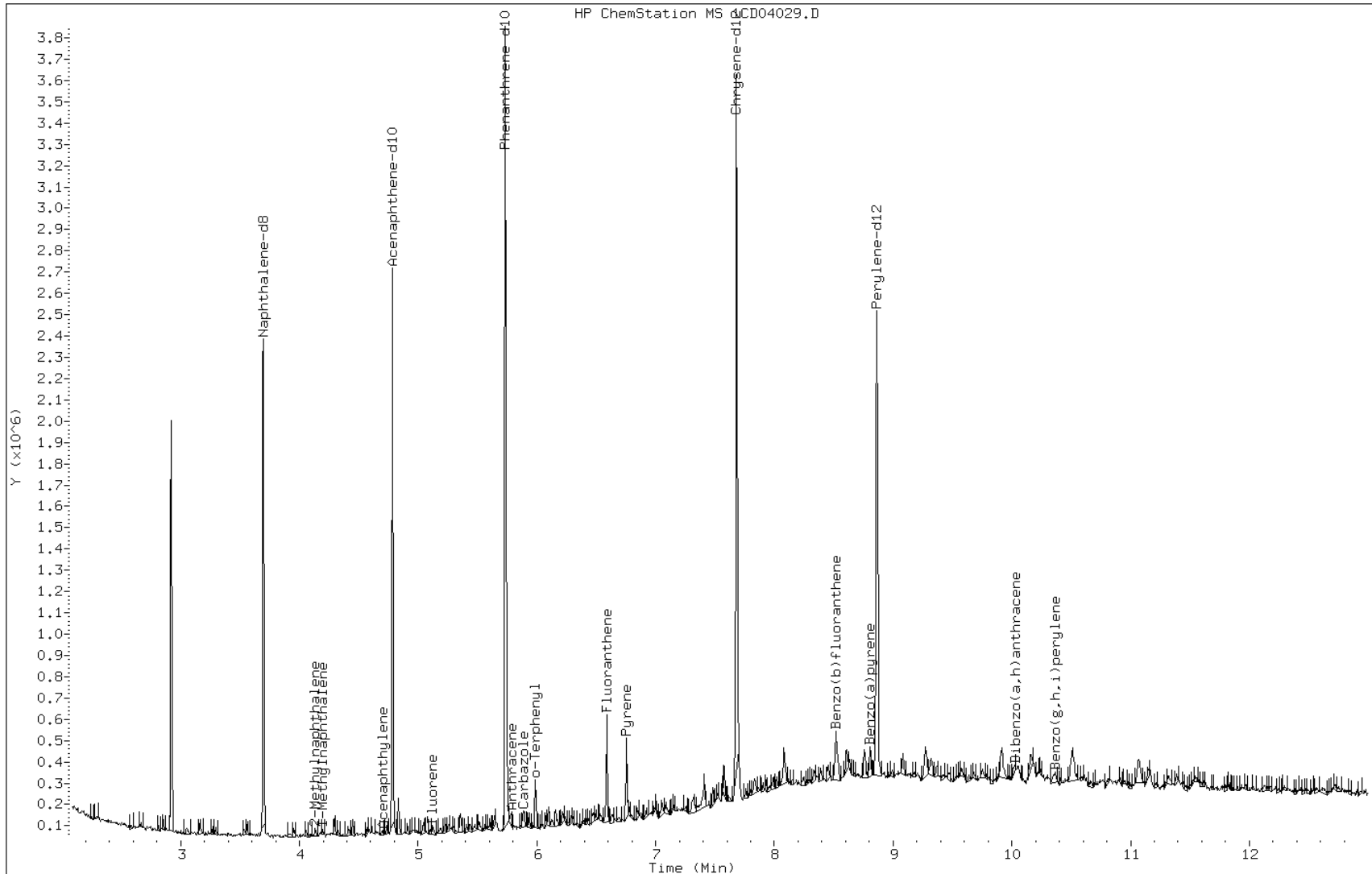
Date: 04-APR-2013 19:47

Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

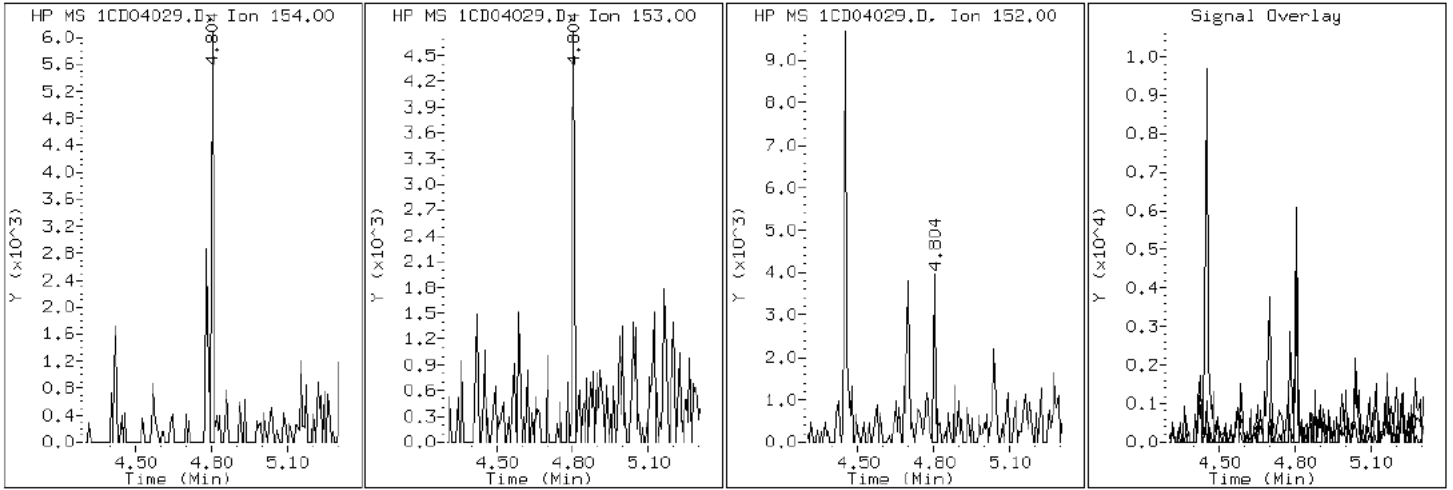
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

7 Acenaphthene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

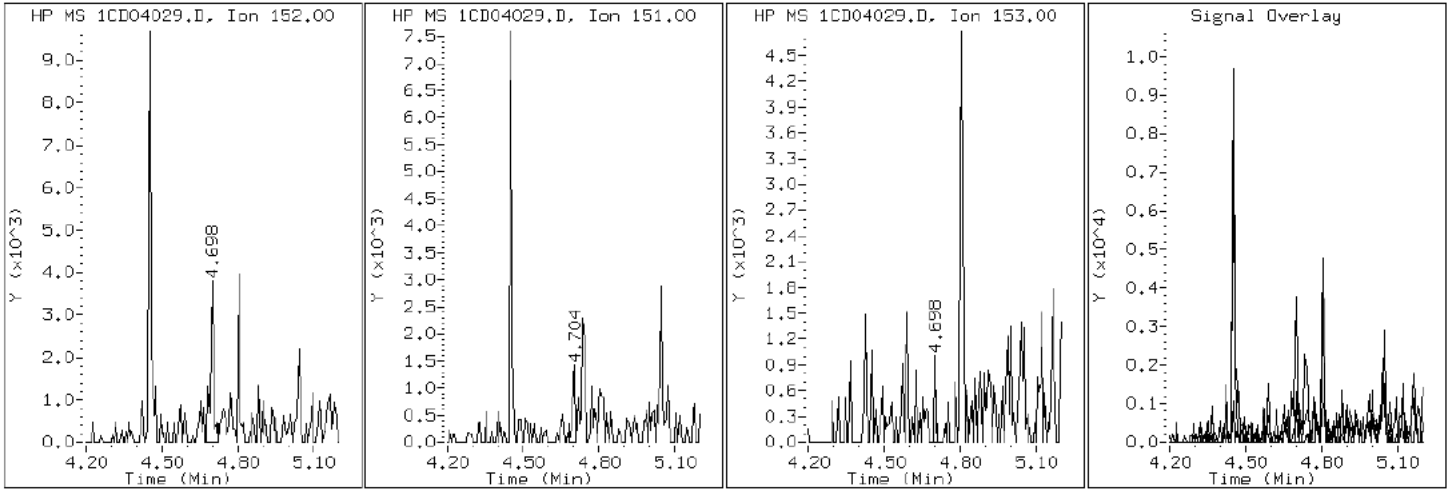
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

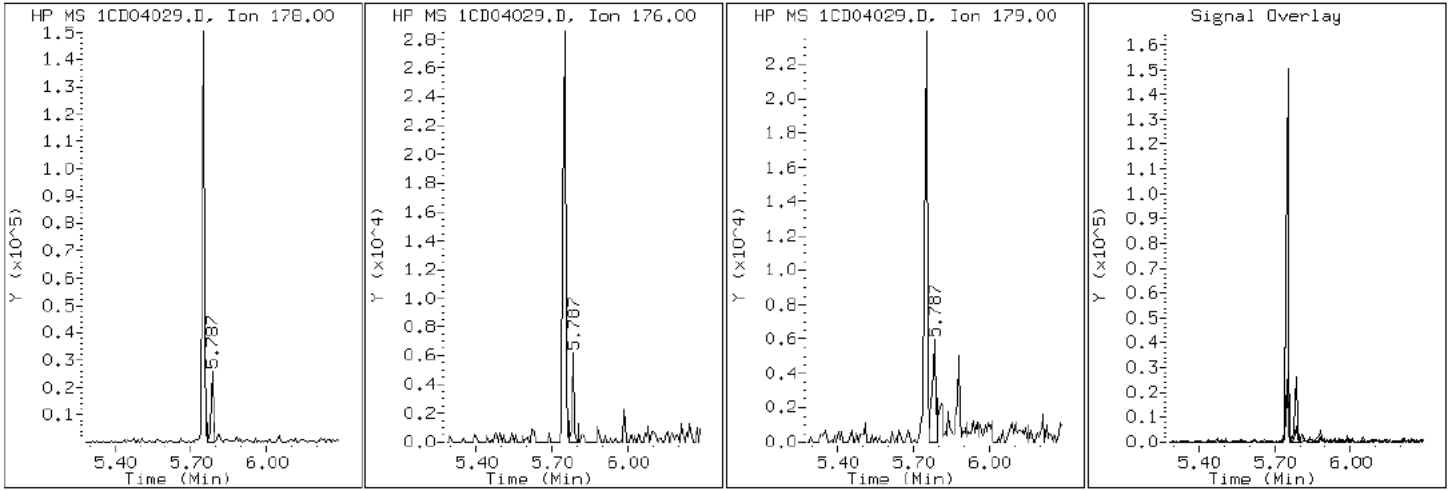
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

12 Anthracene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

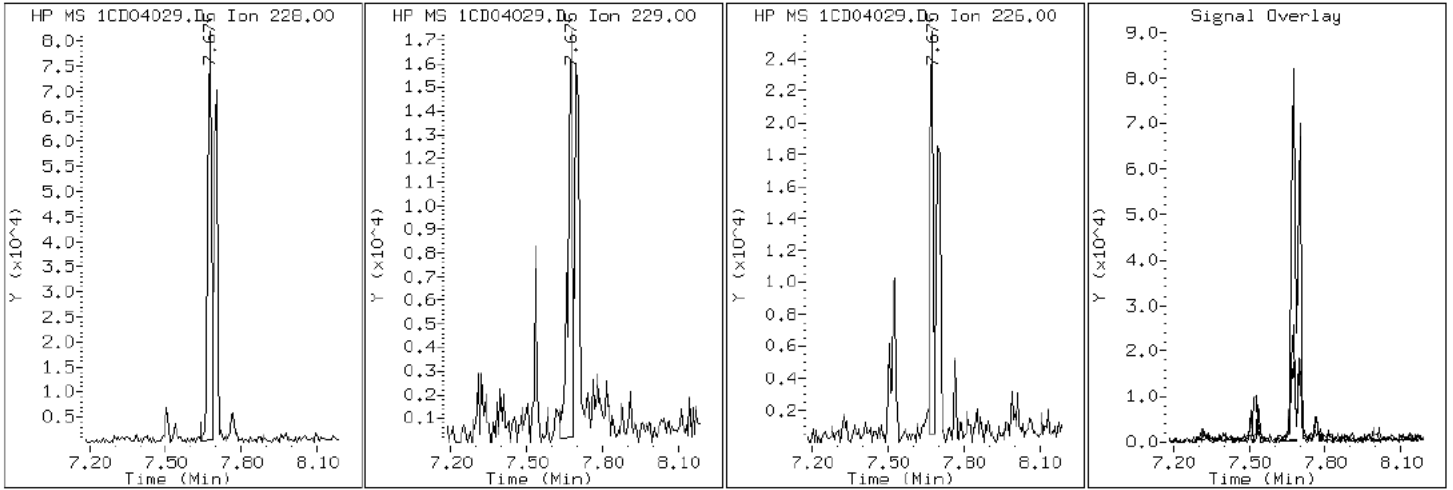
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

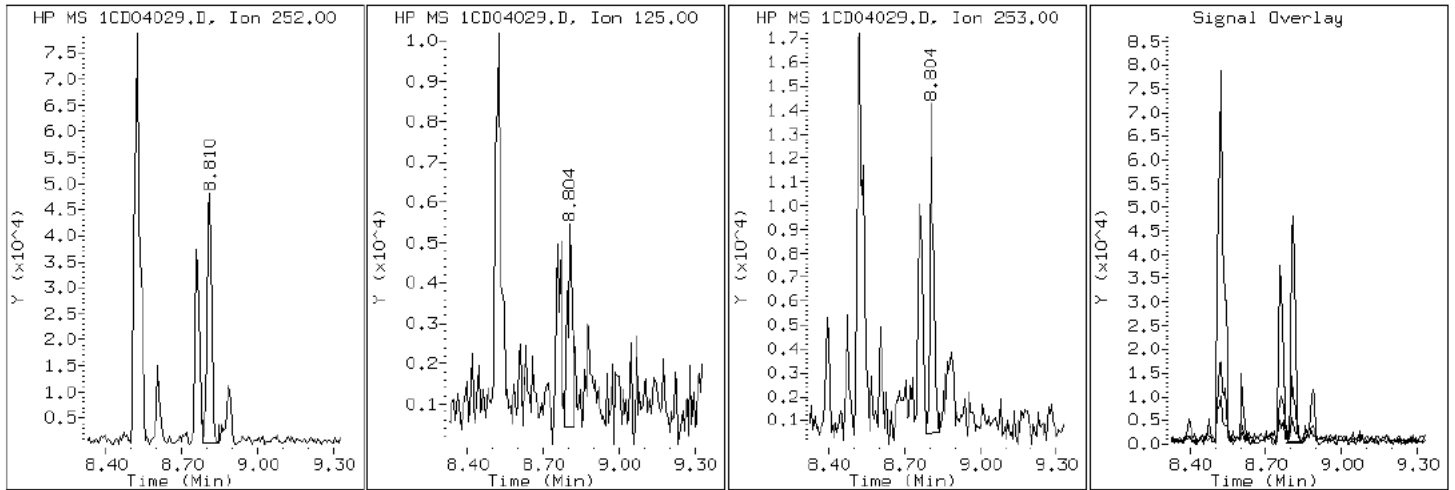
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

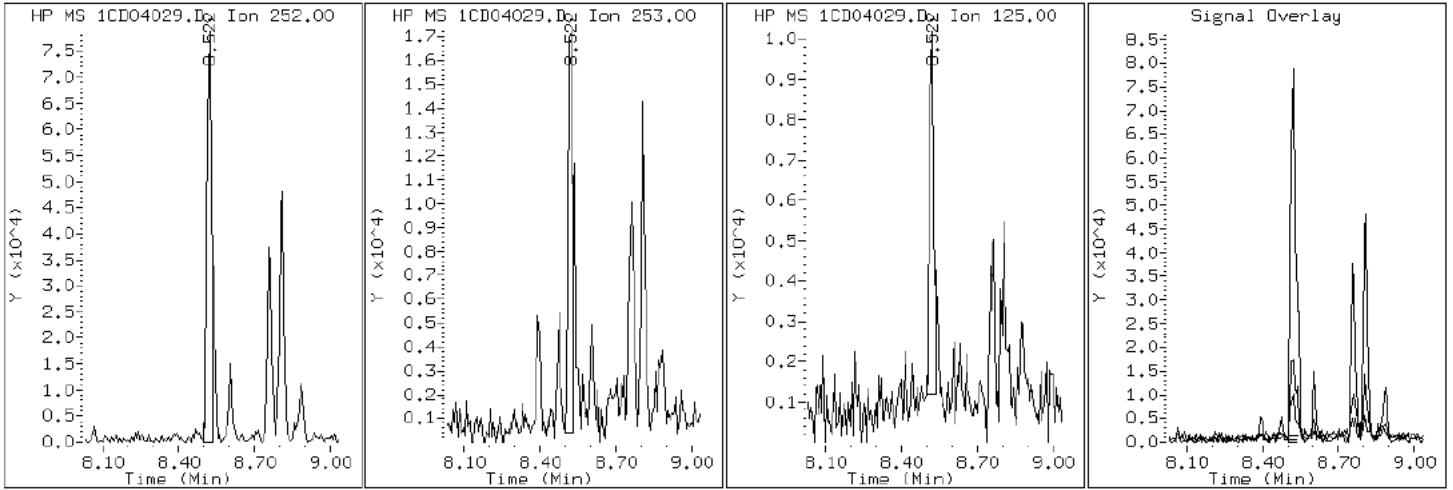
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

20 Benzo(b)fluoranthene





Data File: 1CD04029.D

Date: 04-APR-2013 19:47

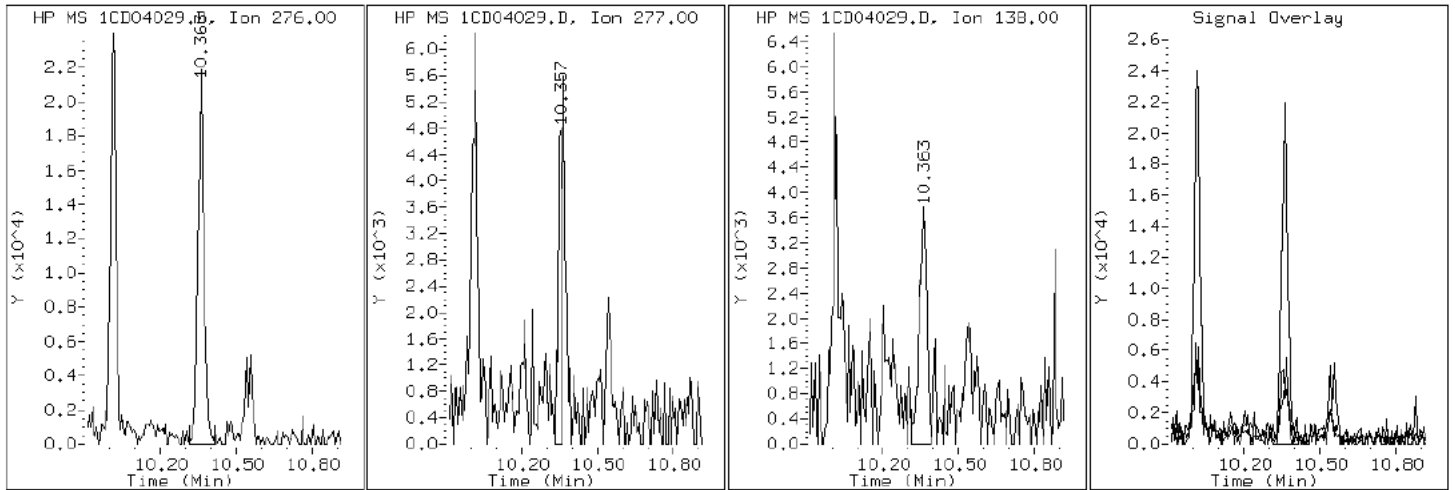
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

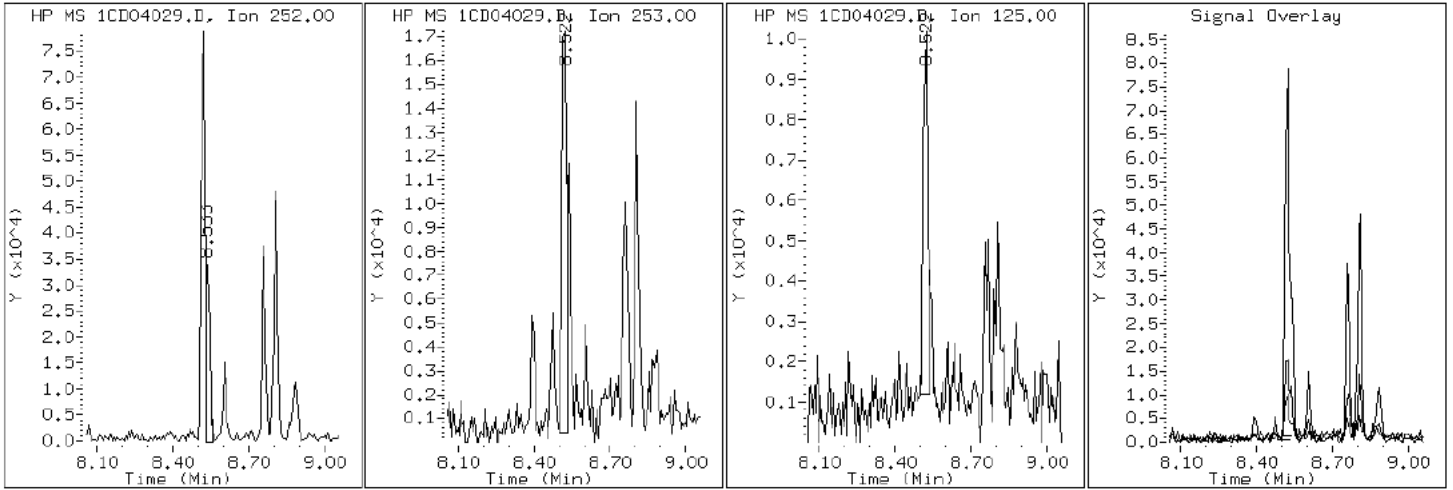
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

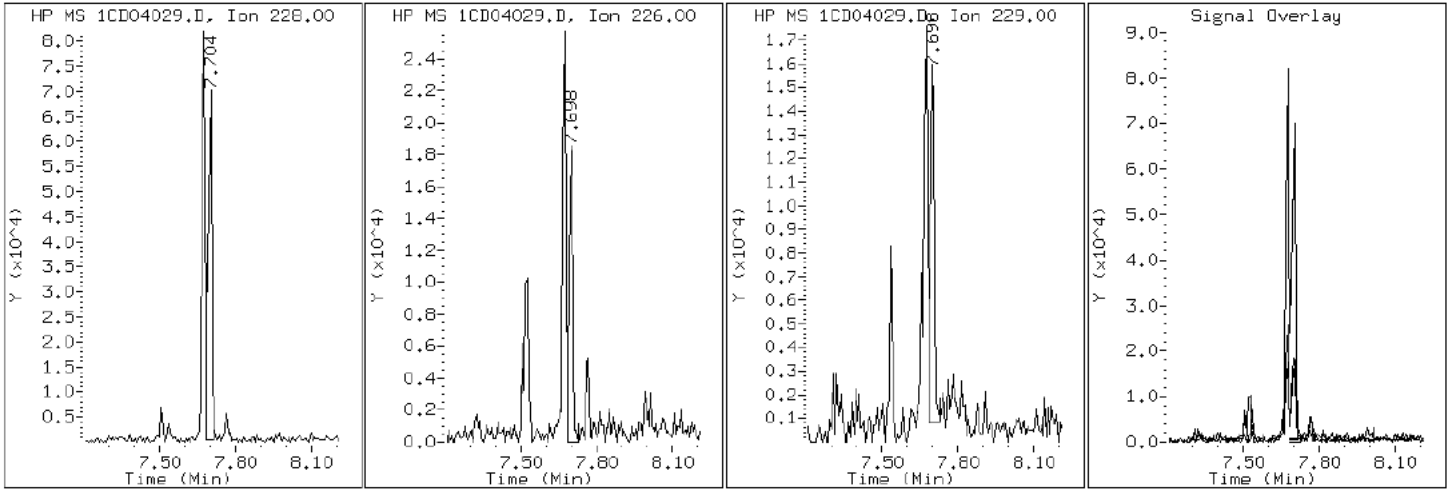
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

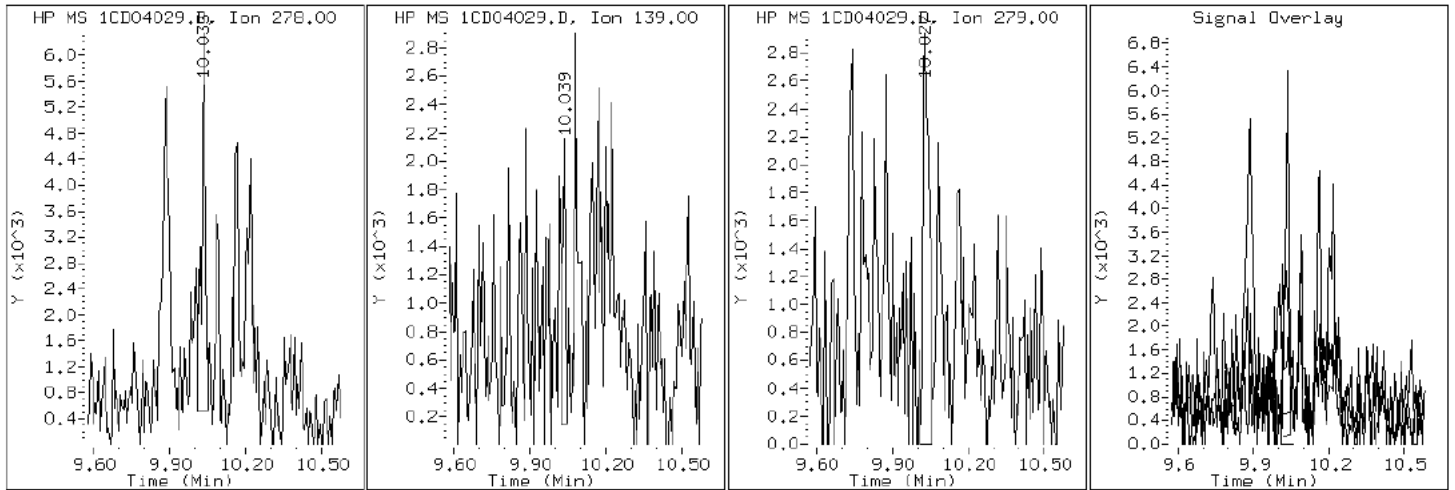
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

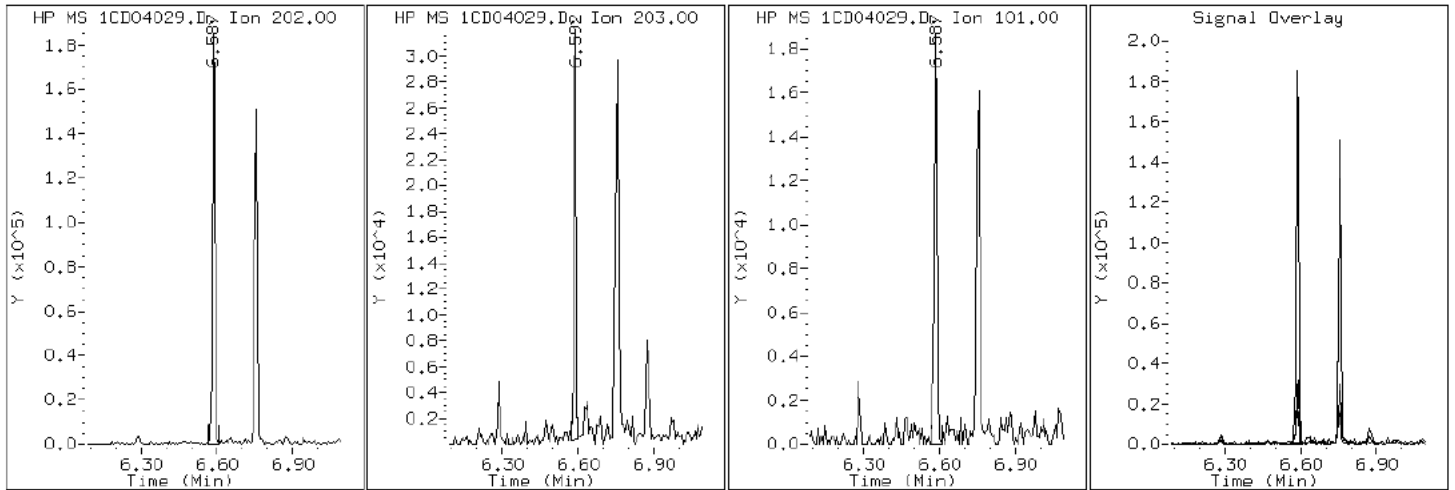
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

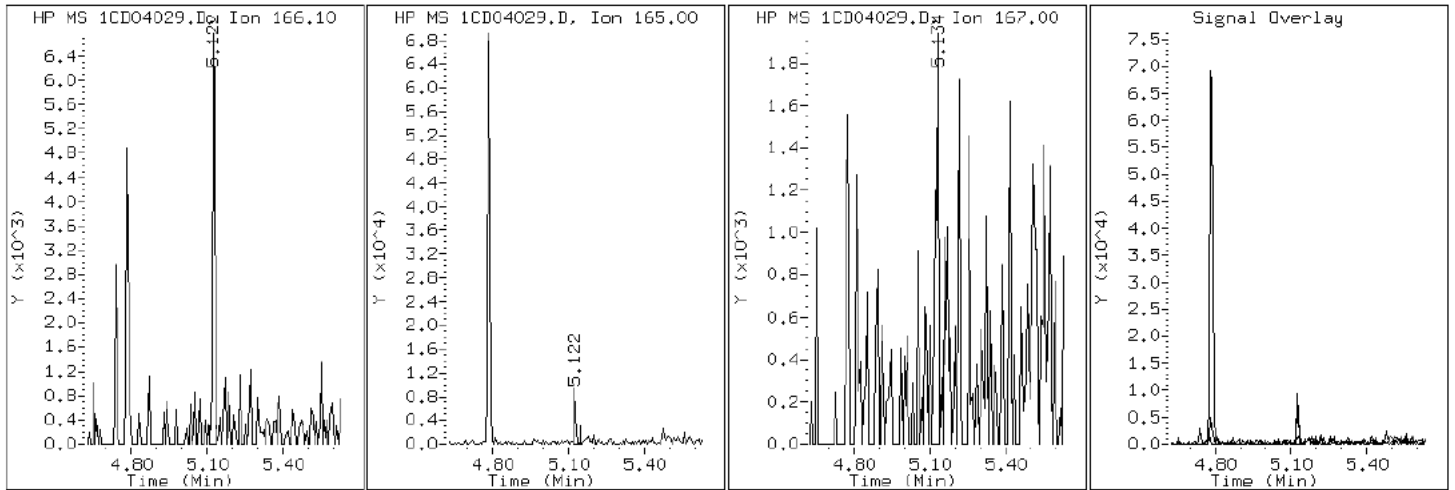
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

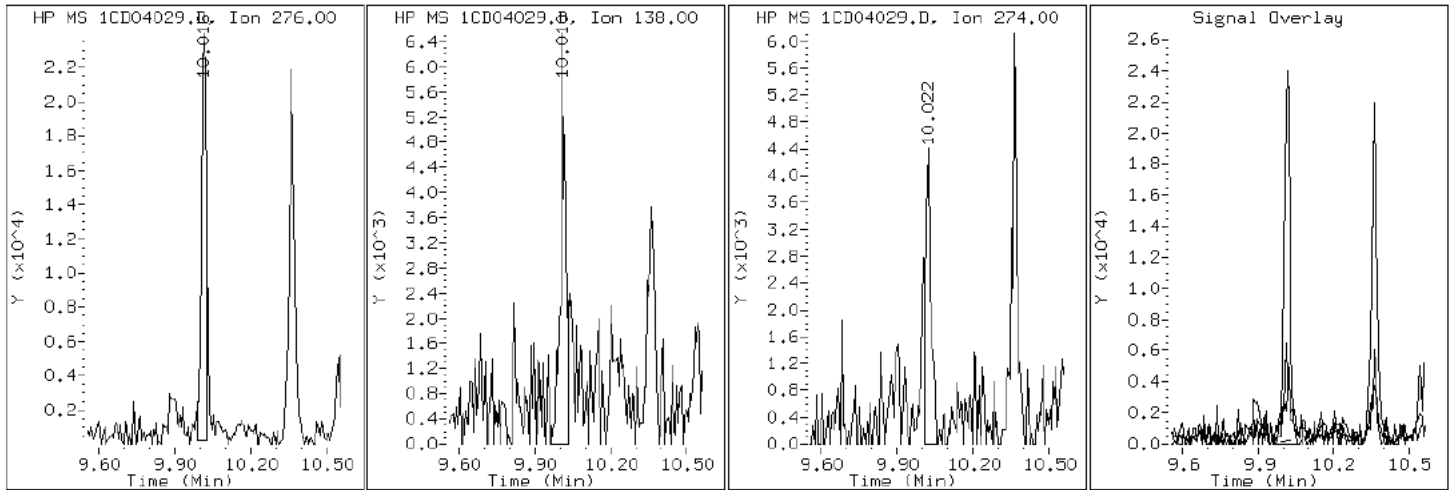
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

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



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

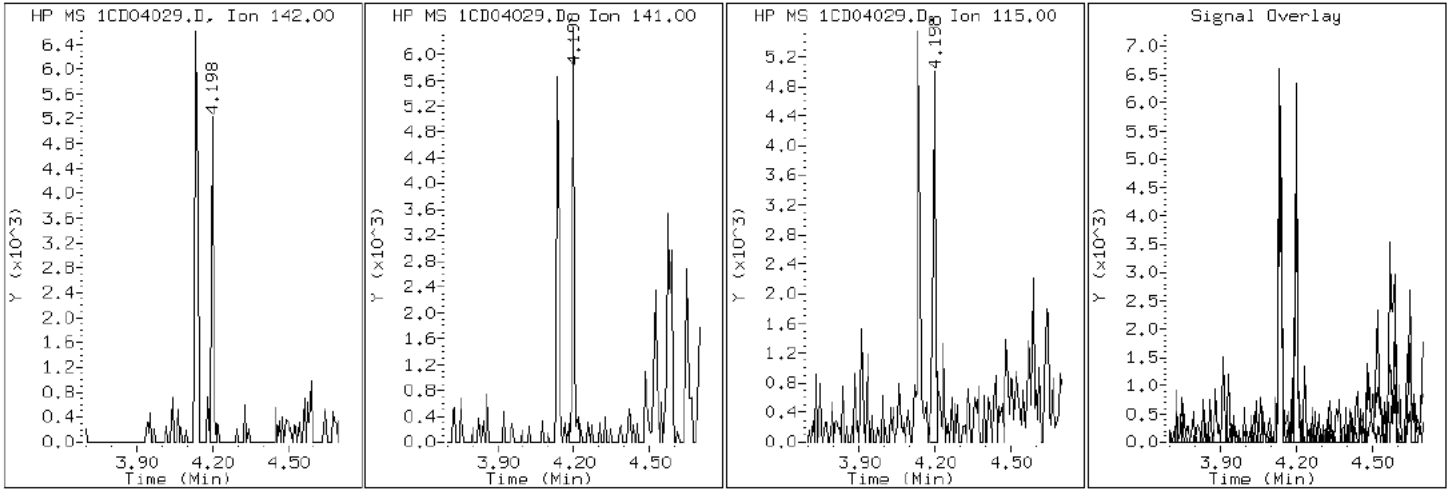
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD04029.D

Date: 04-APR-2013 19:47

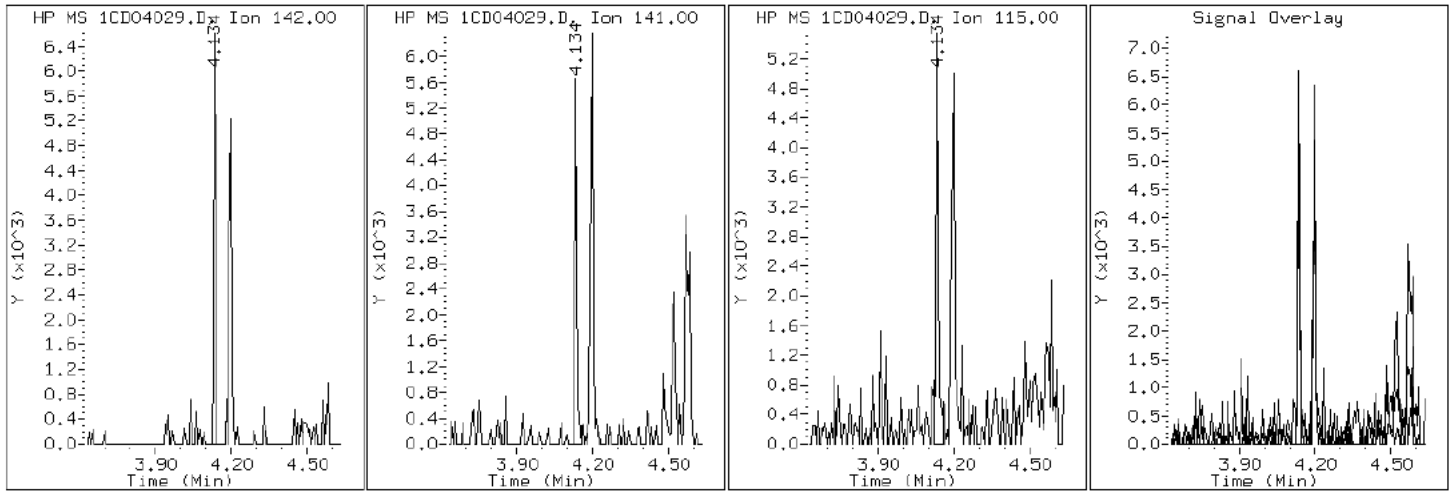
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

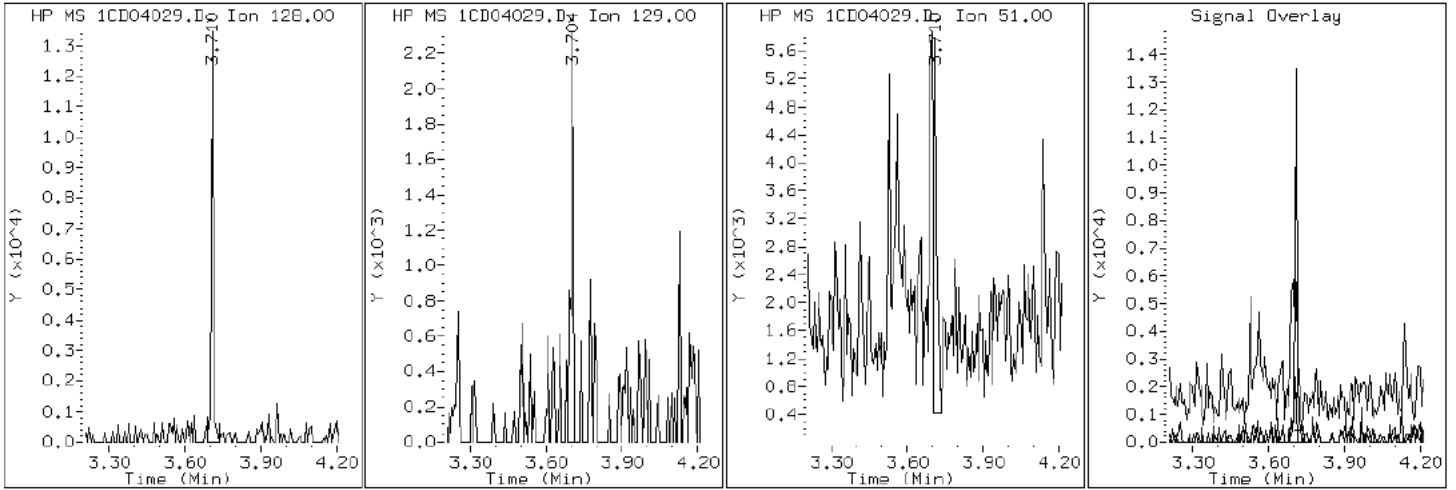
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

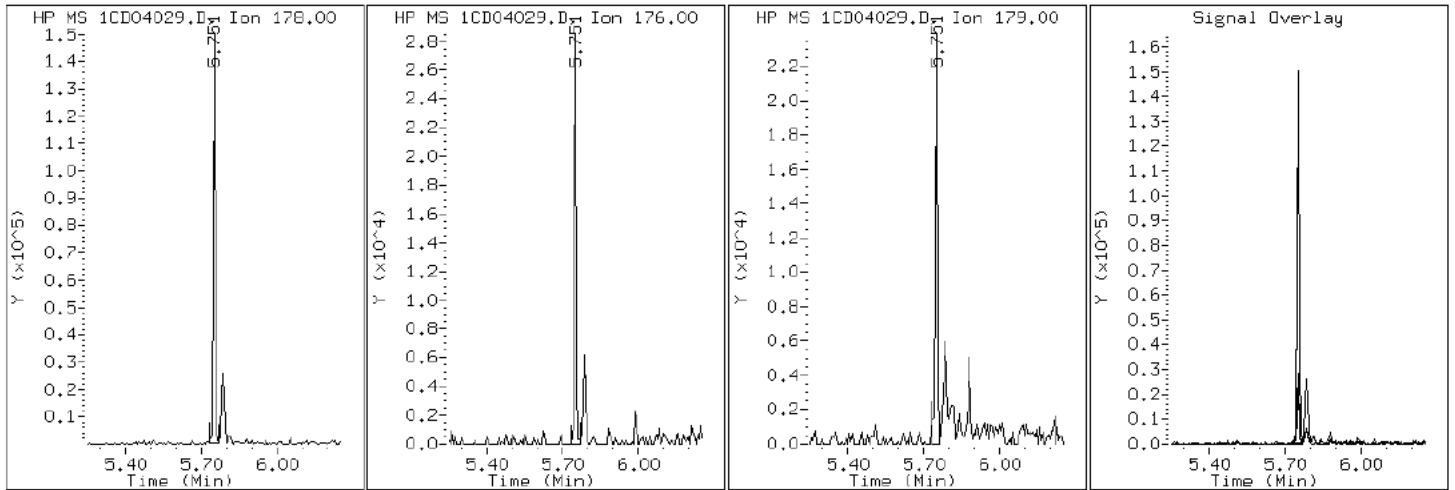
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04029.D

Date: 04-APR-2013 19:47

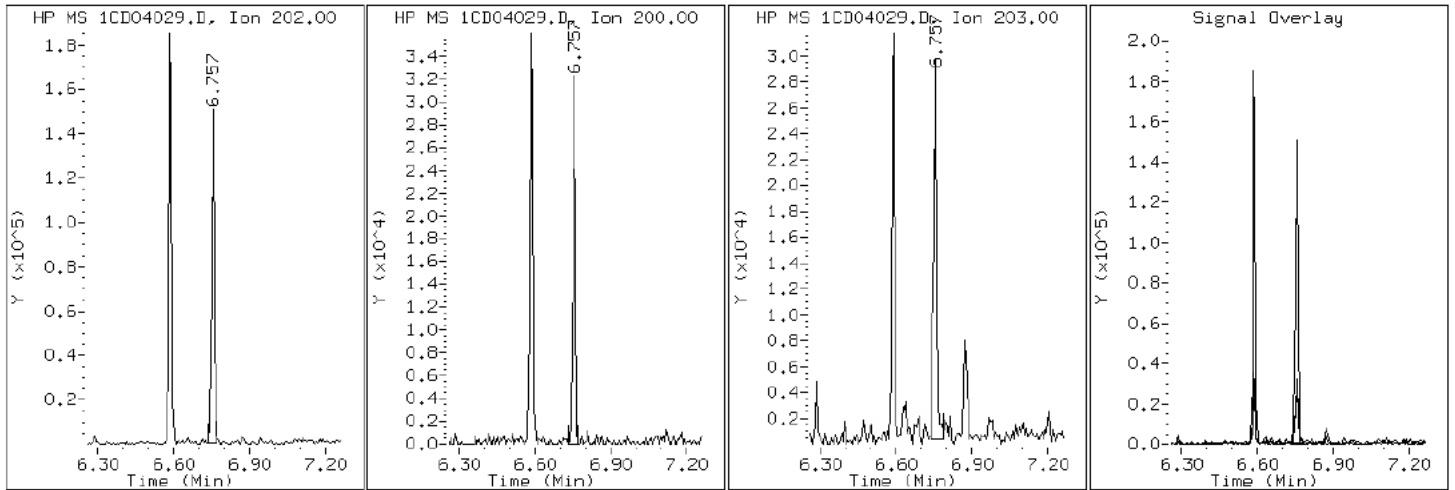
Client ID: CV0509H-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-16-a

Operator: SCC

16 Pyrene

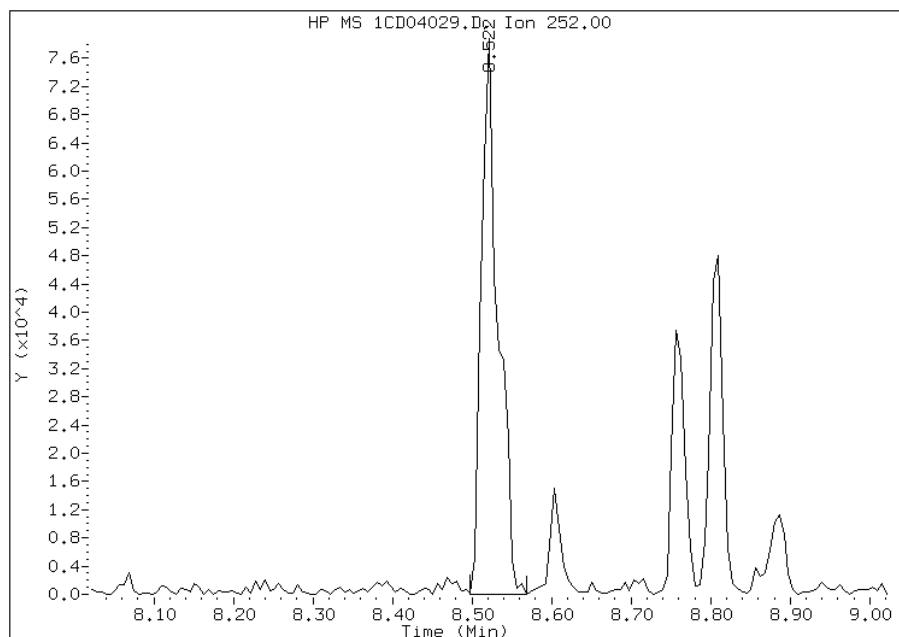


# Manual Integration Report

Data File: 1CD04029.D  
Inj. Date and Time: 04-APR-2013 19:47  
Instrument ID: BSMC5973.i  
Client ID: CV0509H-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

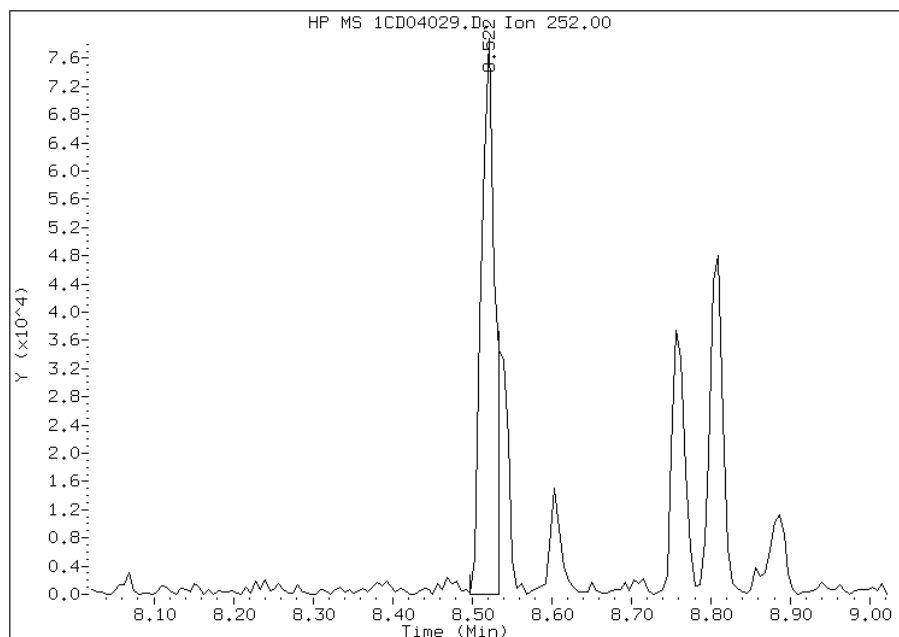
## Processing Integration Results

RT: 8.52  
Response: 115147  
Amount: 5  
Conc: 1674



## Manual Integration Results

RT: 8.52  
Response: 93161  
Amount: 4  
Conc: 1354



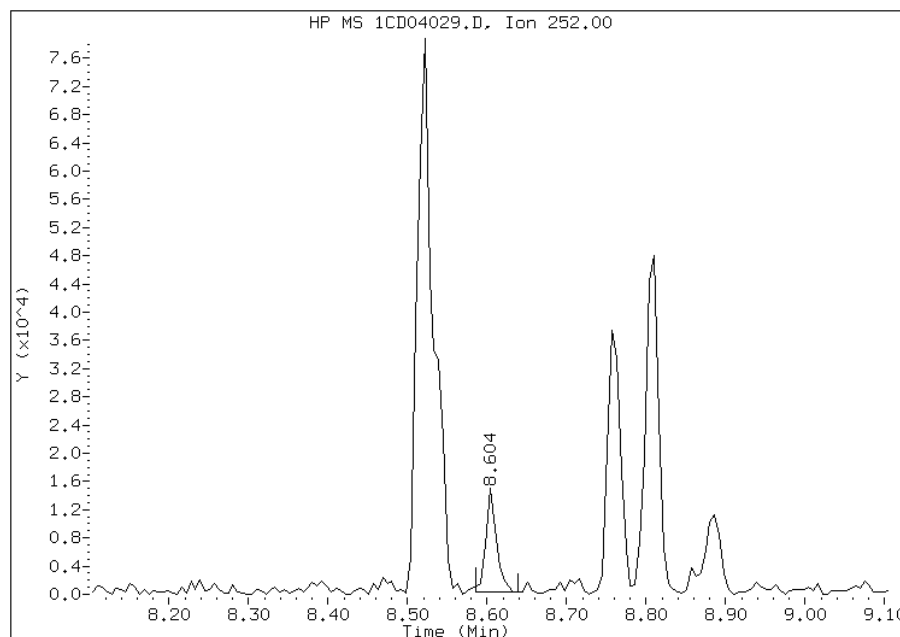
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:50  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04029.D  
Inj. Date and Time: 04-APR-2013 19:47  
Instrument ID: BSMC5973.i  
Client ID: CV0509H-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

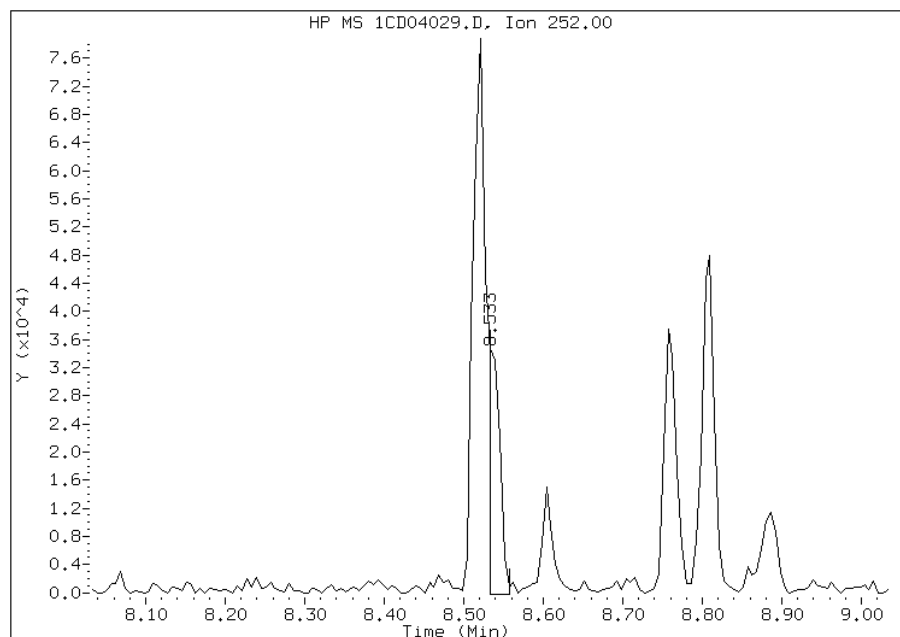
## Processing Integration Results

RT: 8.60  
Response: 13751  
Amount: 1  
Conc: 207



## Manual Integration Results

RT: 8.53  
Response: 34166  
Amount: 2  
Conc: 514



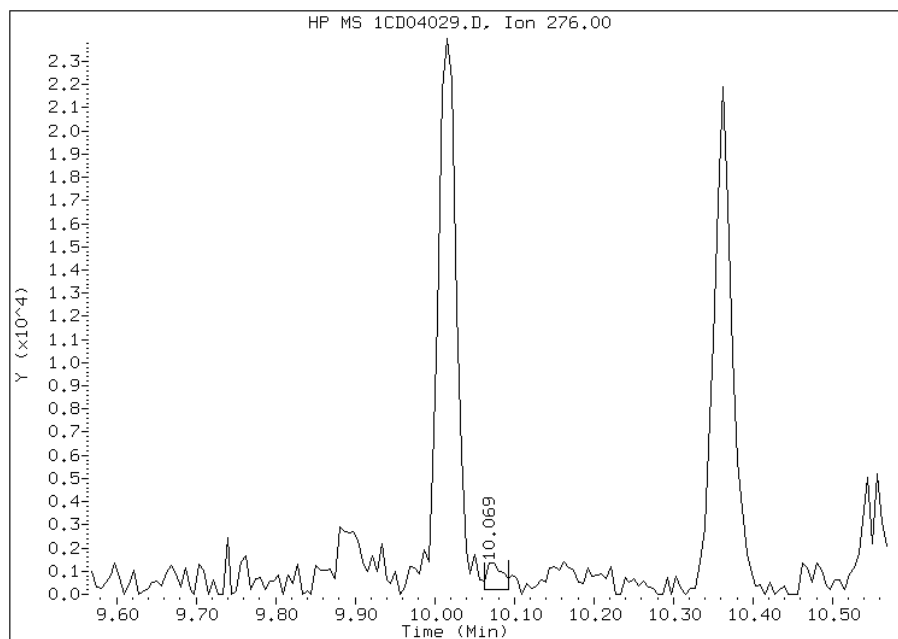
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:50  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04029.D  
Inj. Date and Time: 04-APR-2013 19:47  
Instrument ID: BSMC5973.i  
Client ID: CV0509H-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

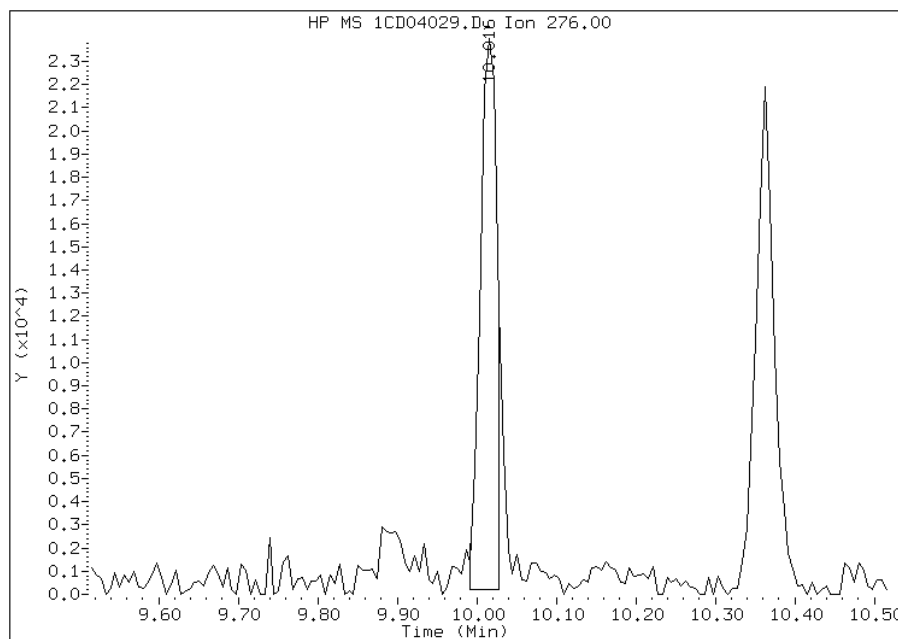
## Processing Integration Results

RT: 10.07  
Response: 1643  
Amount: 0  
Conc: 27



## Manual Integration Results

RT: 10.02  
Response: 34473  
Amount: 2  
Conc: 560



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:51  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509I-CS Lab Sample ID: 680-88767-17  
 Matrix: Solid Lab File ID: 1CD04030.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:07  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.11(g) Date Analyzed: 04/04/2013 20:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 40.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	33
208-96-8	Acenaphthylene	9.8	J	66	8.3
120-12-7	Anthracene	22		14	7.0
56-55-3	Benzo[a]anthracene	82		13	6.5
50-32-8	Benzo[a]pyrene	65		17	8.6
205-99-2	Benzo[b]fluoranthene	110		20	10
191-24-2	Benzo[g,h,i]perylene	46		33	7.3
207-08-9	Benzo[k]fluoranthene	23		13	6.0
218-01-9	Chrysene	99		15	7.5
53-70-3	Dibenz(a,h)anthracene	18	J	33	6.8
206-44-0	Fluoranthene	140		33	6.6
86-73-7	Fluorene	17	J	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	41		33	12
90-12-0	1-Methylnaphthalene	67		66	7.3
91-57-6	2-Methylnaphthalene	76		66	12
91-20-3	Naphthalene	64	J	66	7.3
85-01-8	Phenanthrene	100		13	6.5
129-00-0	Pyrene	120		33	6.1

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\1C040413.b\1CD04030.D  
 Lab Smp Id: 680-88767-A-17-A Client Smp ID: CV0509I-CS  
 Inj Date : 04-APR-2013 20:05  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-17-a  
 Misc Info : 680-88767-A-17-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins 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	15.110	Weight Extracted
M	40.173	% 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		3.698	3.692 (1.000)	503632	40.0000		
* 6 Acenaphthene-d10	164		4.786	4.786 (1.000)	382609	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733 (1.000)	760098	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992 (1.044)	83124	7.42535	821.3979	
* 18 Chrysene-d12	240		7.680	7.692 (1.000)	845202	40.0000		
* 23 Perylene-d12	264		8.862	8.886 (1.000)	816413	40.0000	(H)	
2 Naphthalene	128		3.710	3.710 (1.003)	7432	0.57453	63.5555	
3 2-Methylnaphthalene	142		4.133	4.133 (1.118)	6030	0.68480	75.7528	
4 1-Methylnaphthalene	142		4.198	4.198 (1.135)	4795	0.60518	66.9455	
5 Acenaphthylene	152		4.692	4.698 (0.980)	1409	0.08898	9.8428	
9 Fluorene	166		5.127	5.127 (1.071)	2021	0.15457	17.0988(Q)	
11 Phenanthrene	178		5.751	5.751 (1.003)	20487	0.92544	102.3728	
12 Anthracene	178		5.786	5.786 (1.009)	4395	0.19585	21.6647	
13 Carbazole	167		5.892	5.898 (1.028)	2745	0.14277	15.7937	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.586	6.592	(1.149)	30126	1.23224	136.3112
16 Pyrene	202	6.756	6.763	(0.880)	25362	1.08326	119.8306
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	14894	0.74380	82.2800
19 Chrysene	228	7.703	7.710	(1.003)	21516	0.89335	98.8233
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.962)	22128	0.95872	106.0547(M)
21 Benzo(k)fluoranthene	252	8.545	8.557	(0.964)	4559	0.20423	22.5917(QMH)
22 Benzo(a)pyrene	252	8.809	8.827	(0.994)	12678	0.58343	64.5400(H)
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.056	(1.131)	7704	0.37327	41.2912(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.074	(1.131)	3153	0.16537	18.2938(QH)
26 Benzo(g,h,i)perylene	276	10.368	10.415	(1.170)	8836	0.41947	46.4016(MH)

QC Flag Legend

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

Data File: 1CD04030.D

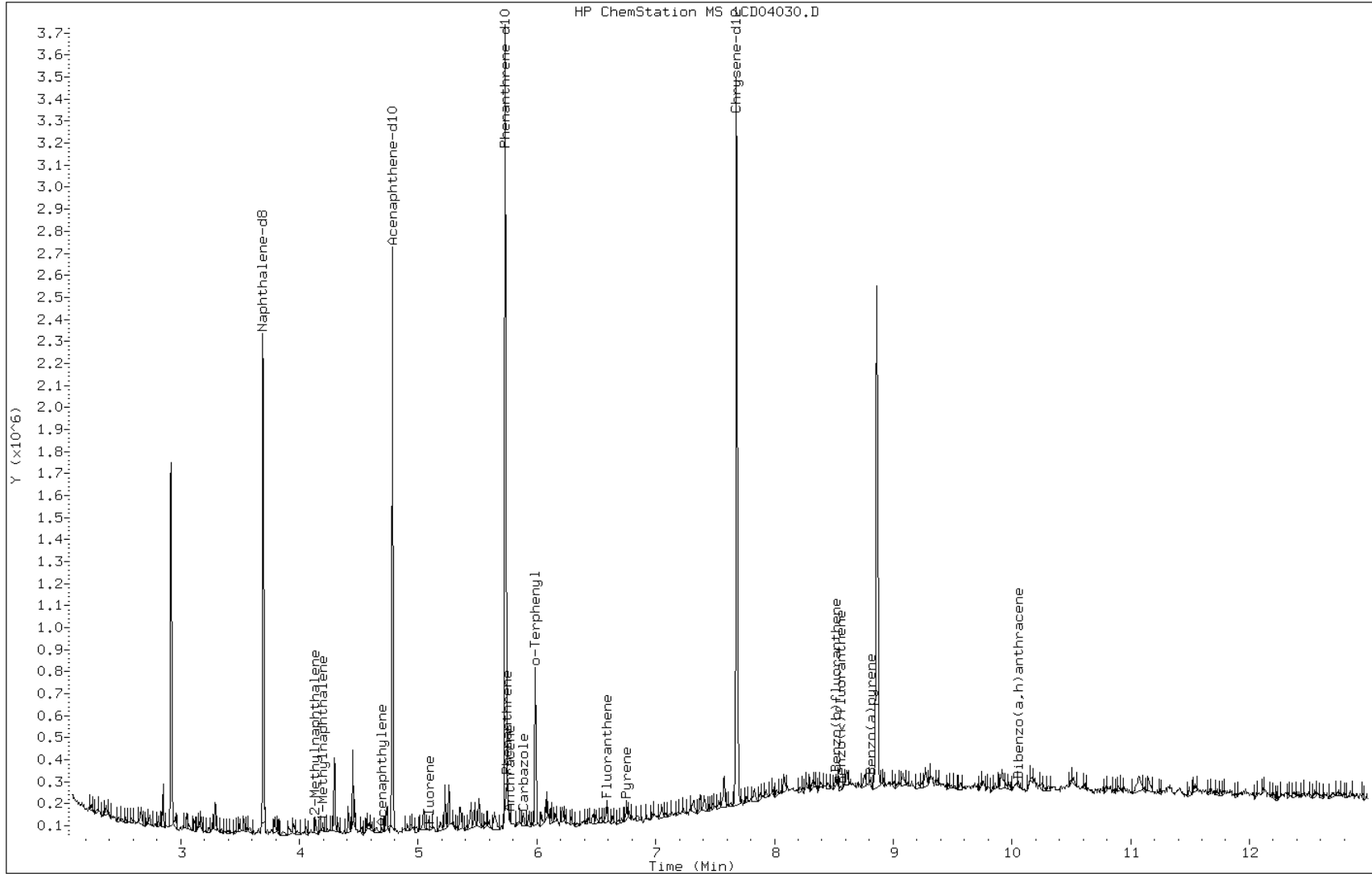
Date: 04-APR-2013 20:05

Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

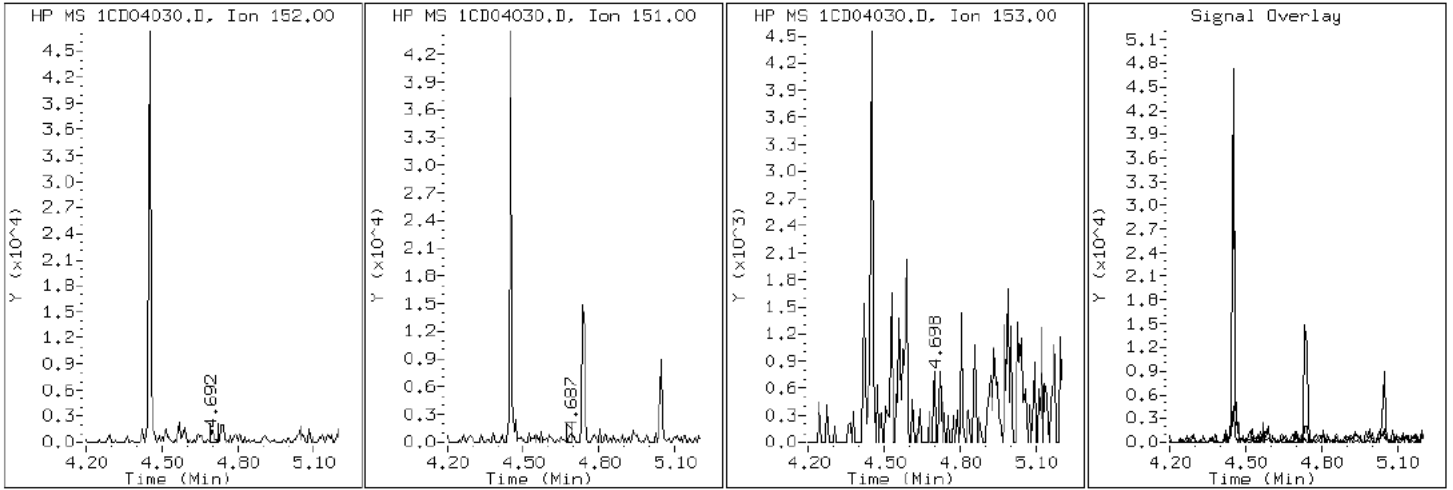
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

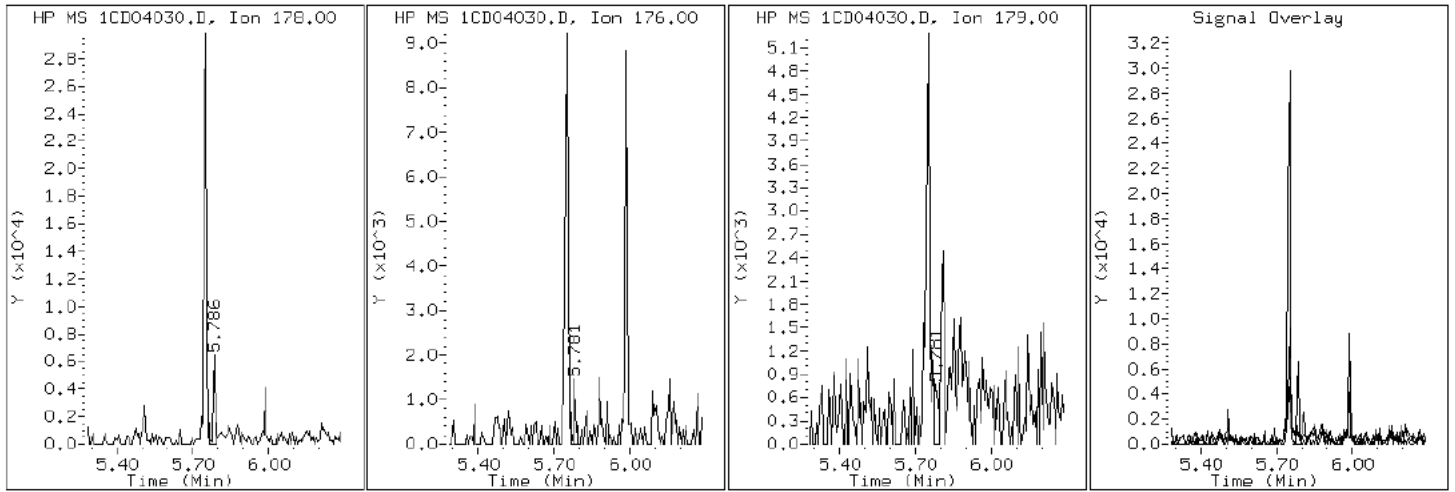
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

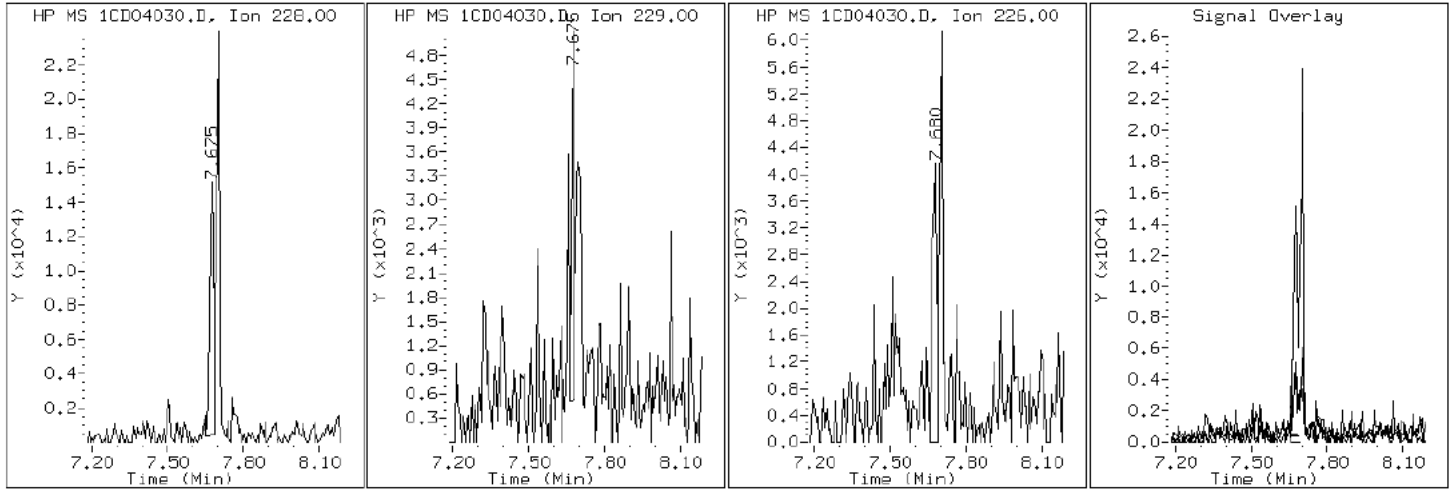
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

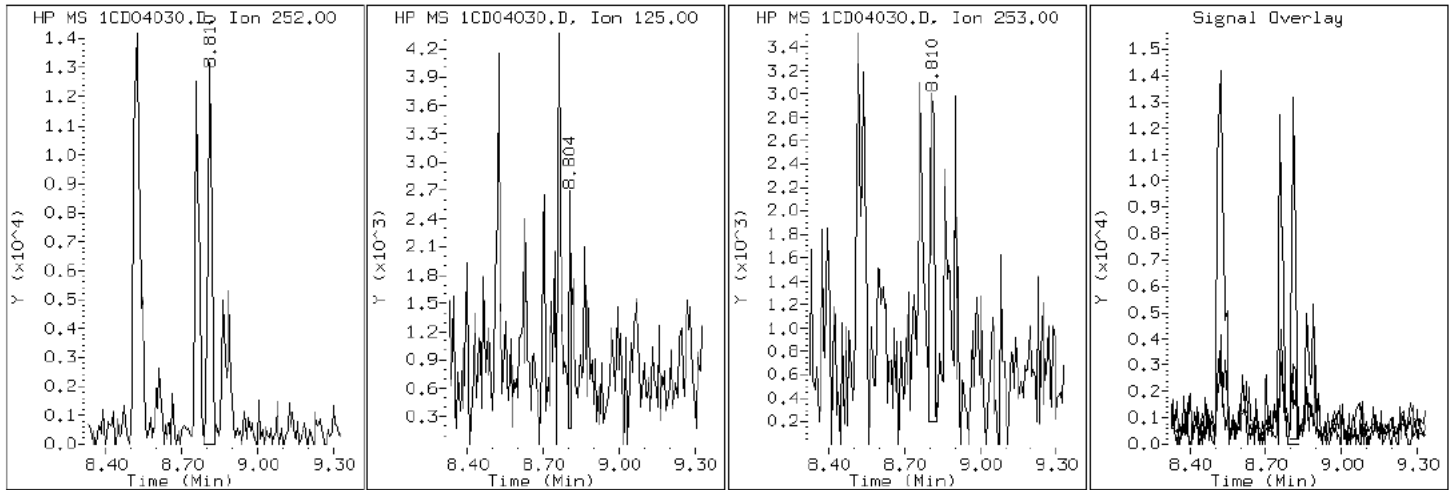
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

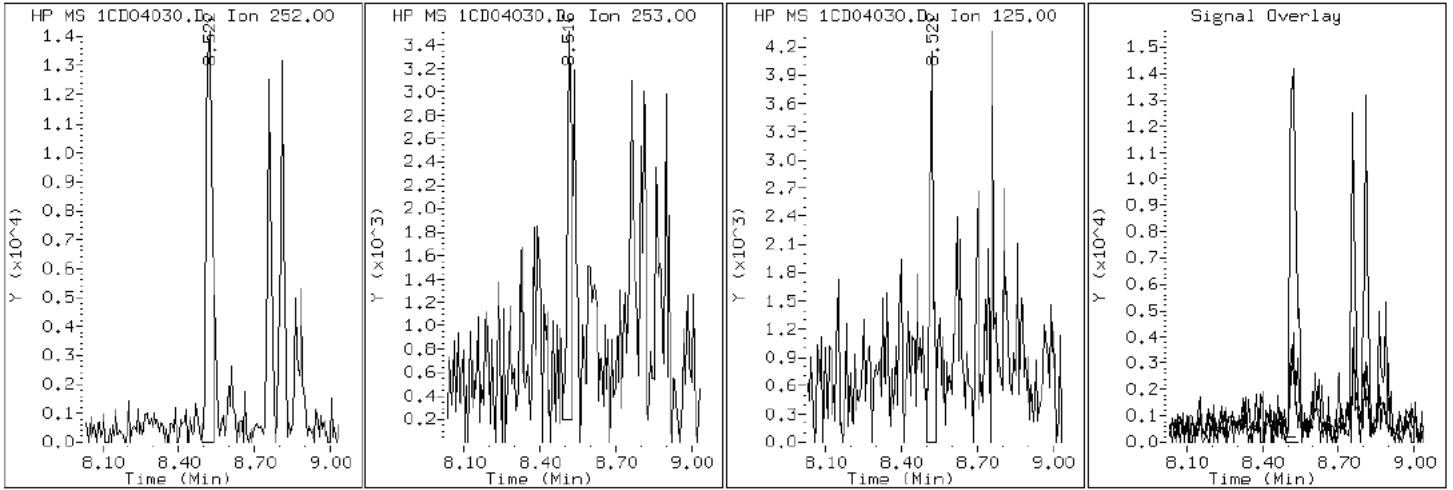
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CD04030.D

Date: 04-APR-2013 20:05

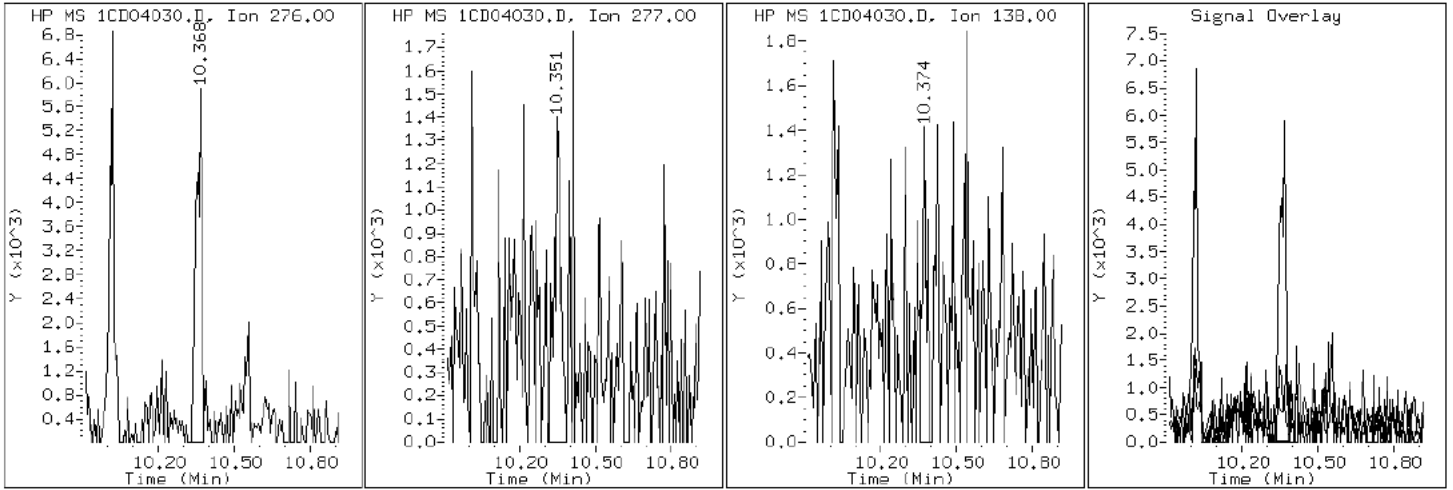
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

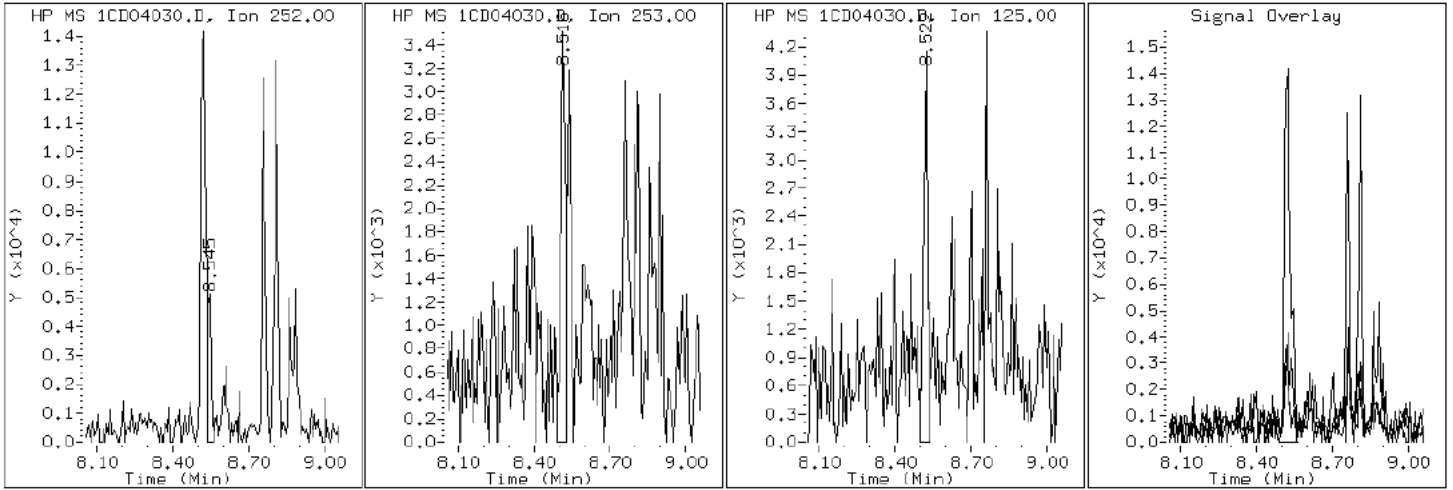
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

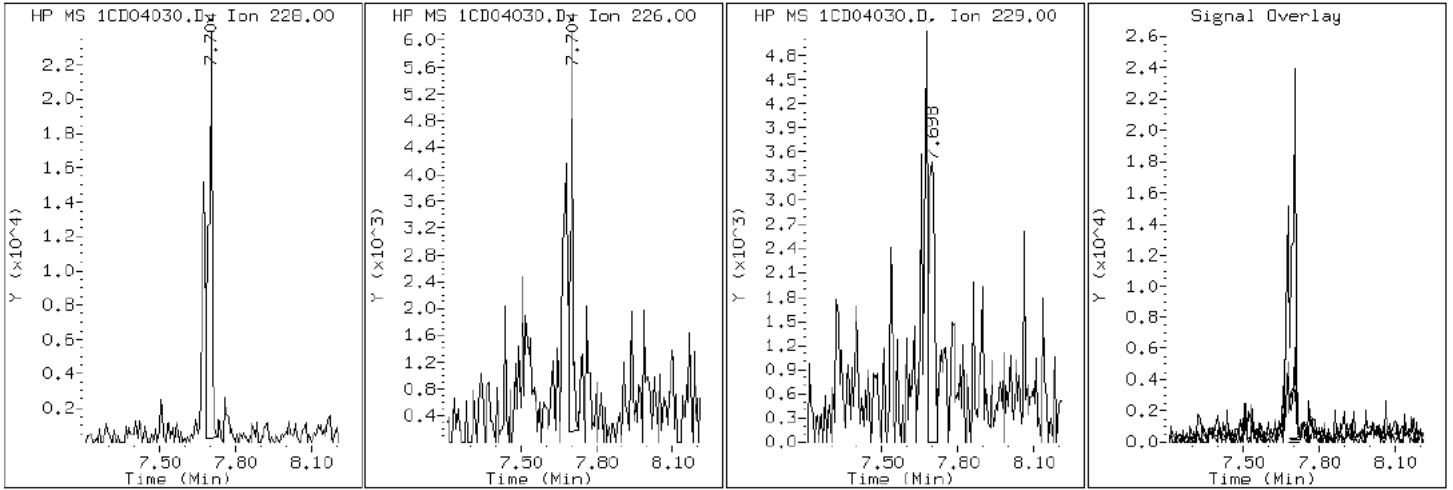
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

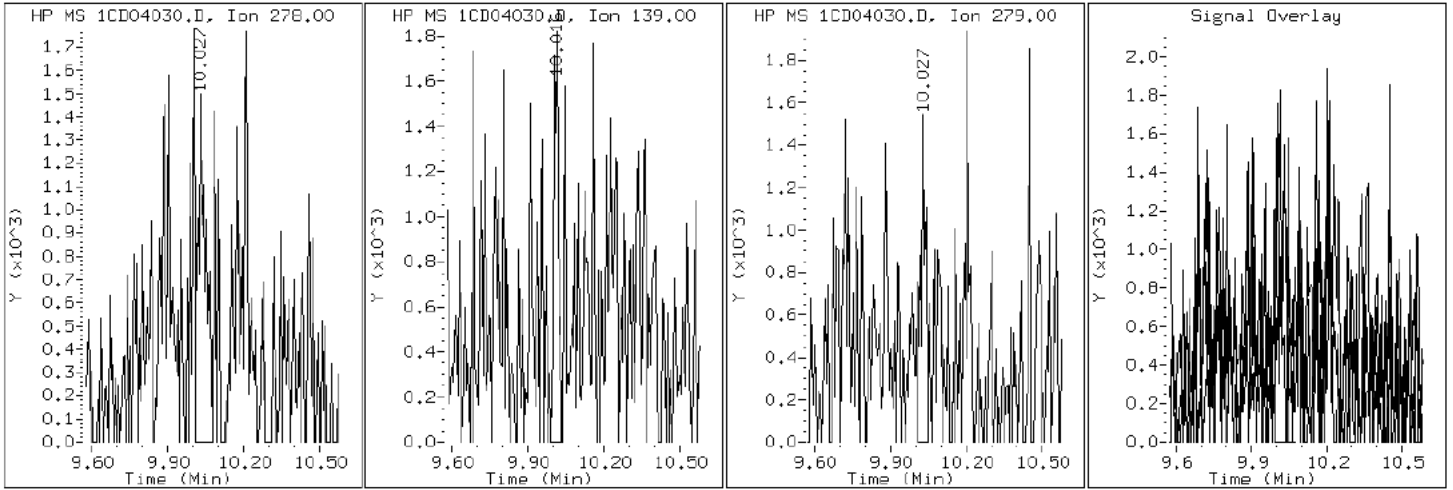
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

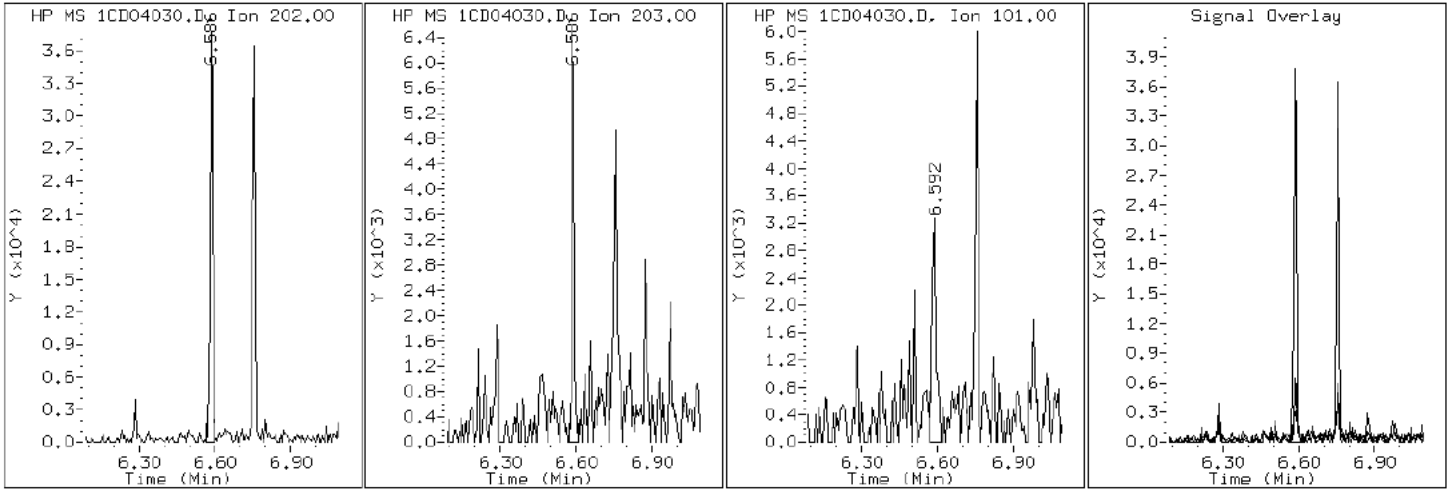
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

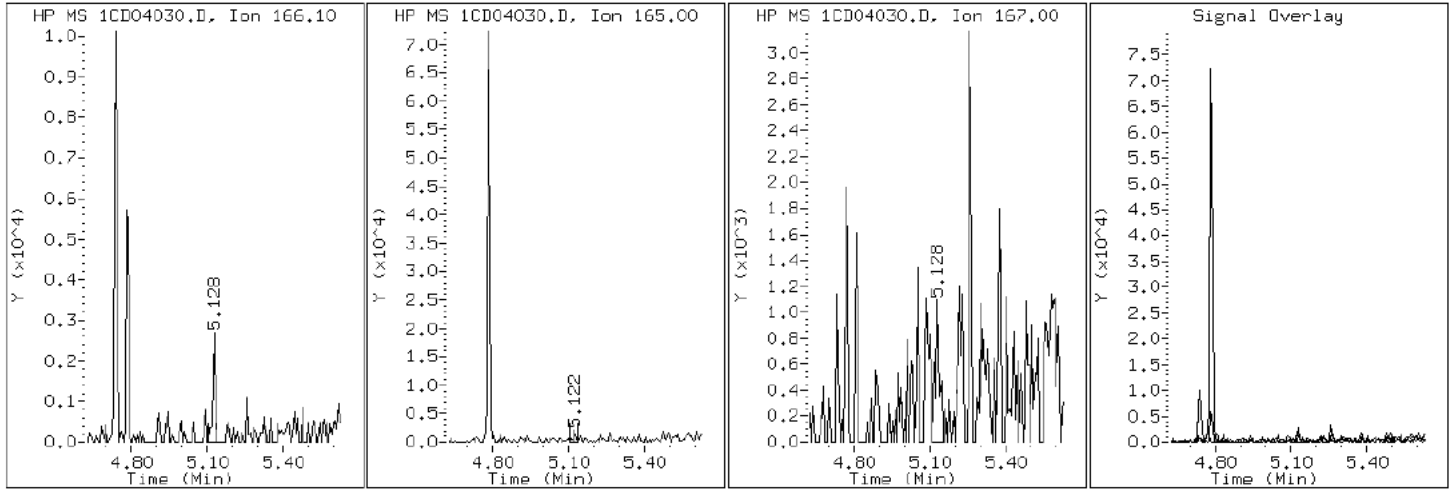
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

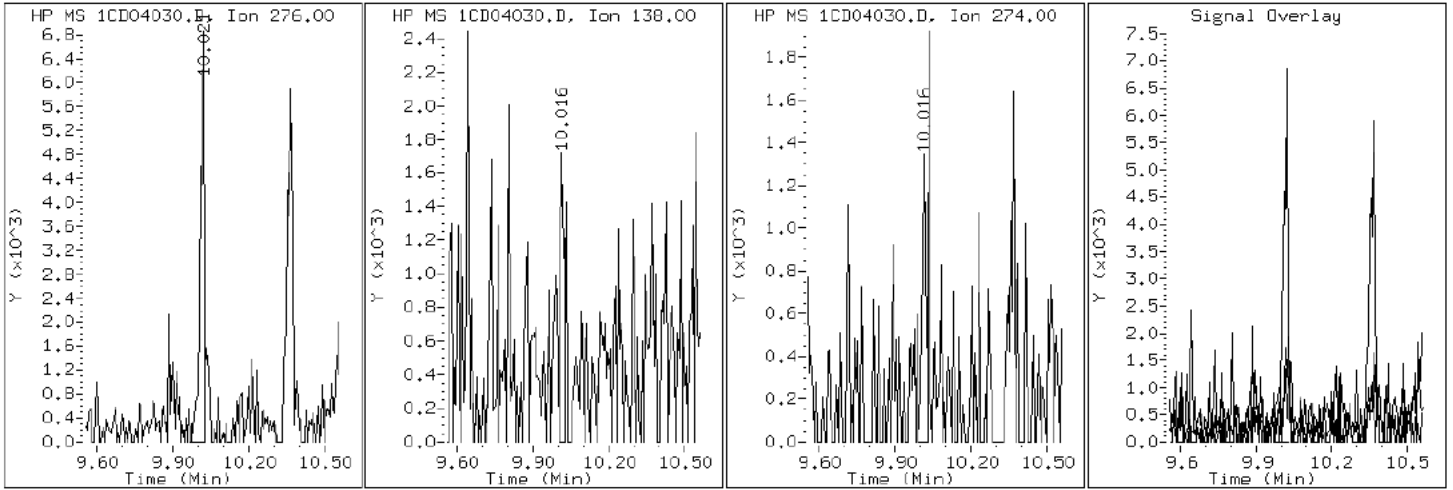
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

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



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

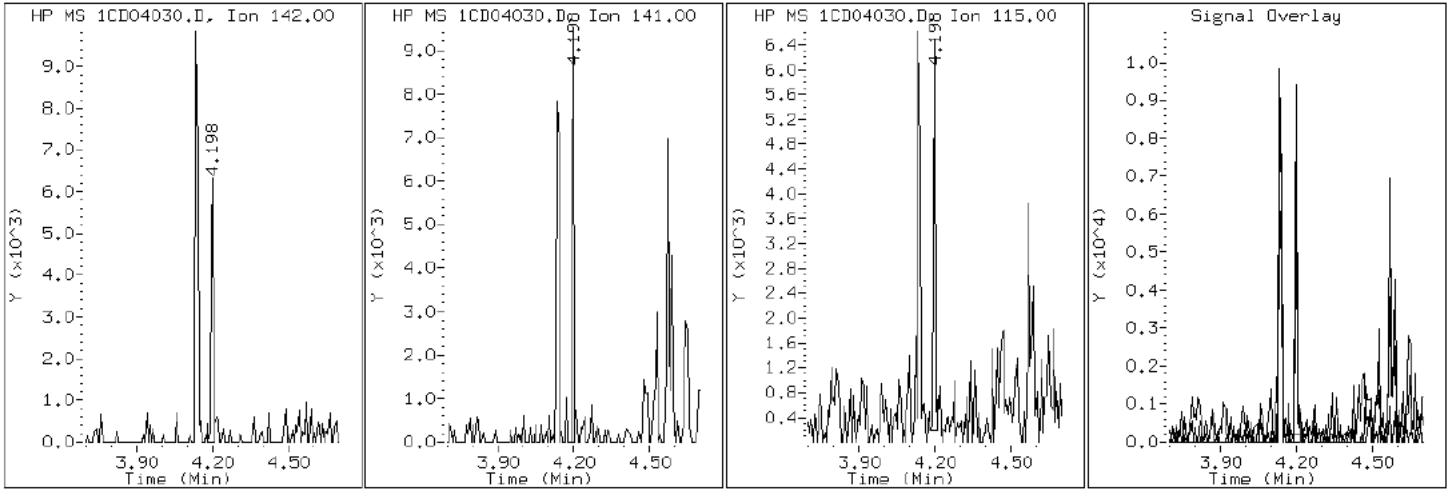
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CD04030.D

Date: 04-APR-2013 20:05

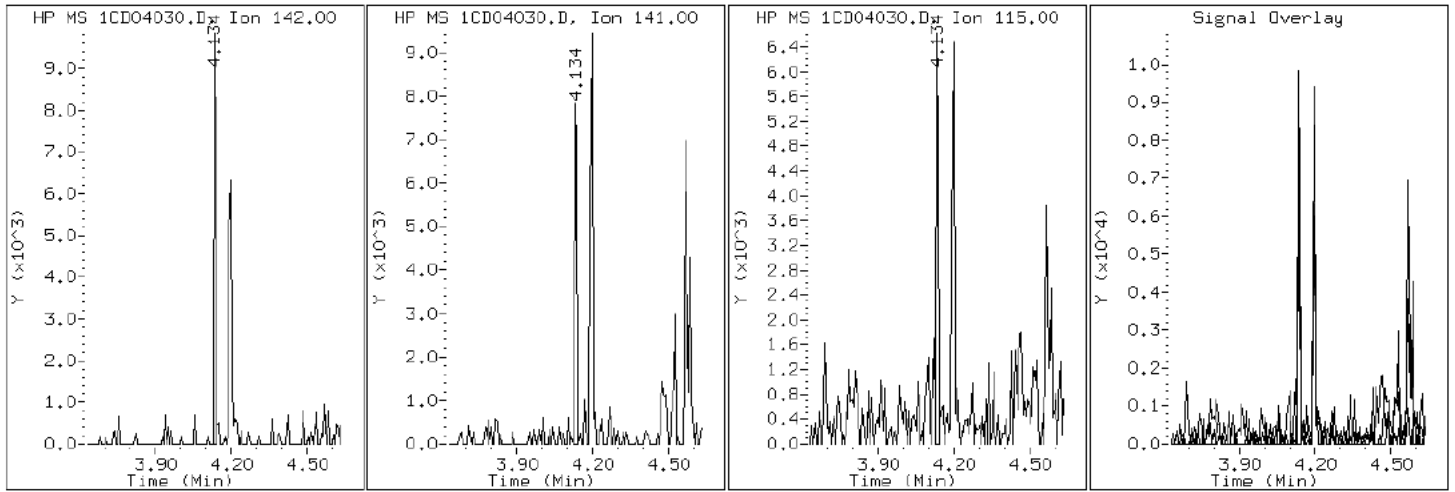
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

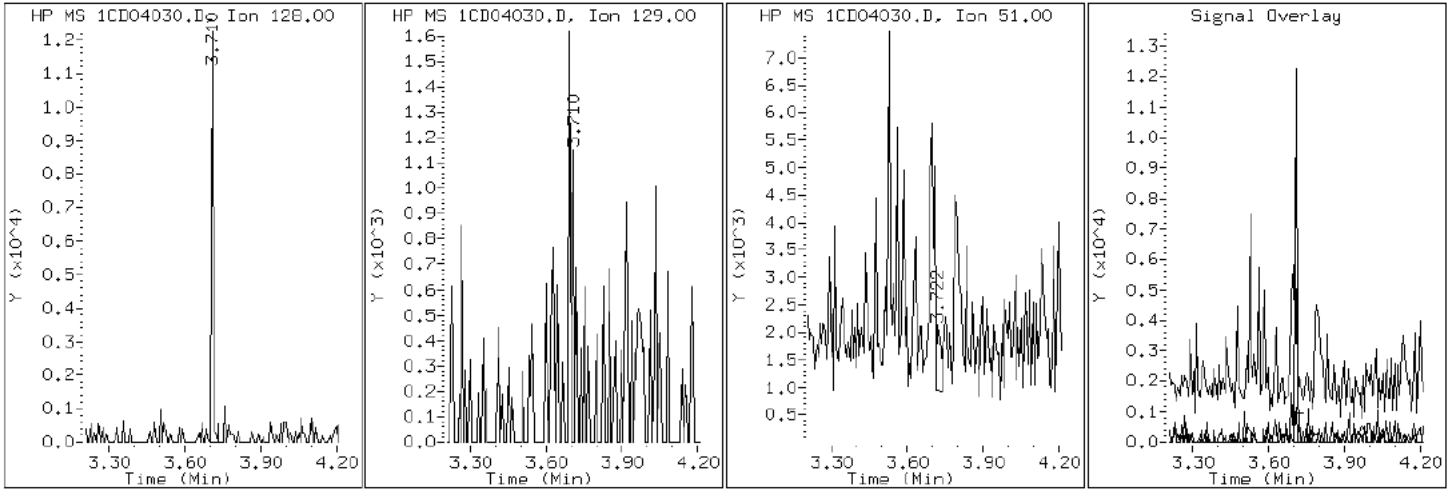
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

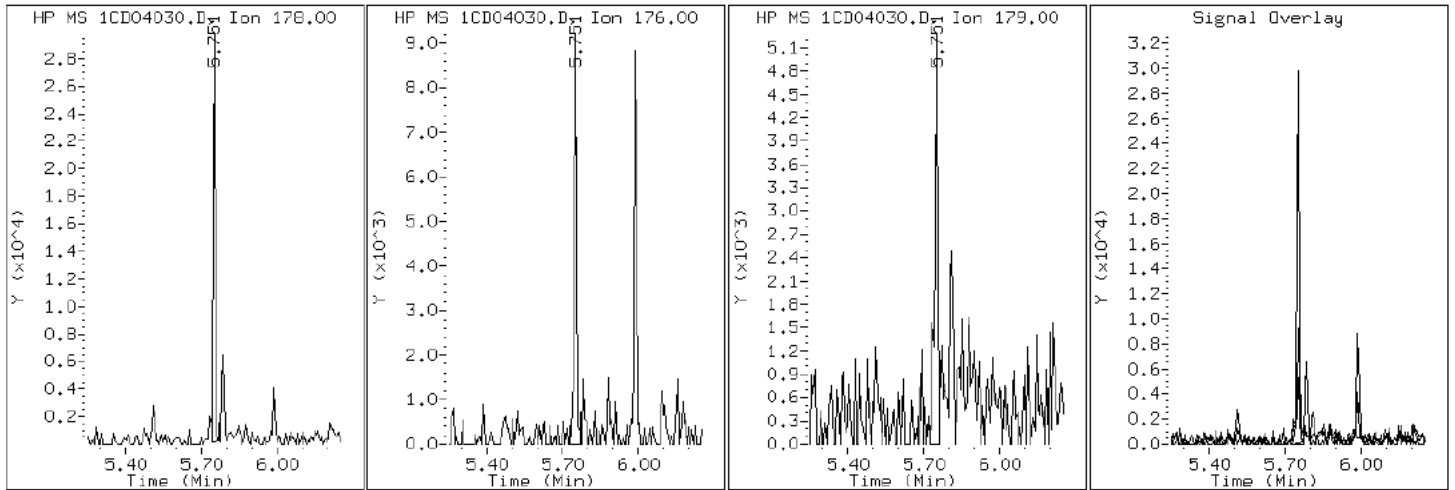
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04030.D

Date: 04-APR-2013 20:05

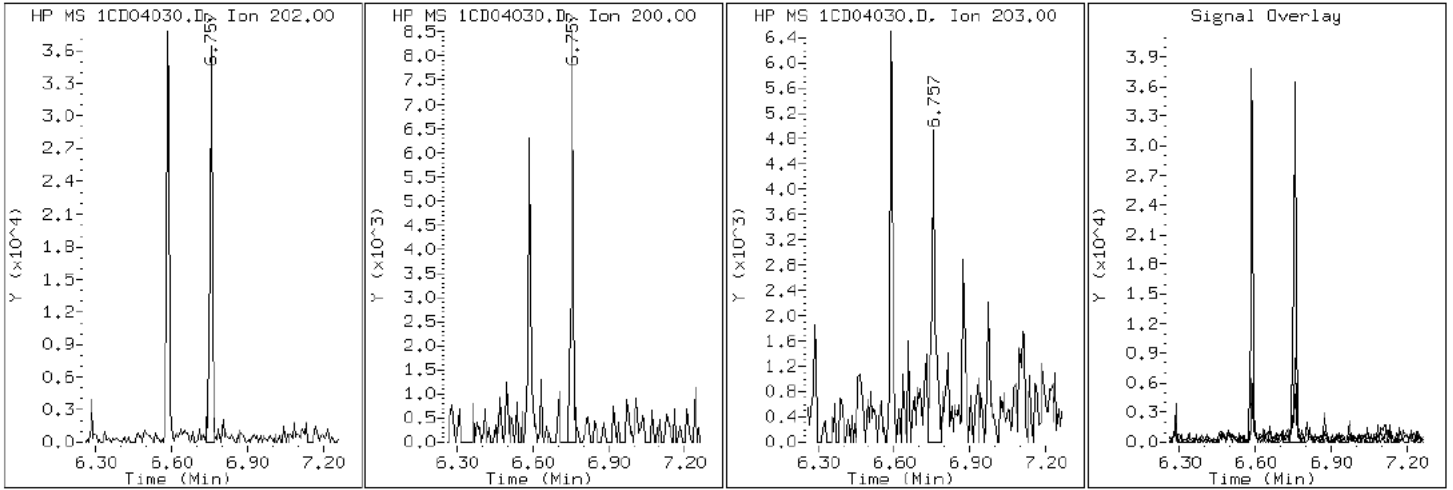
Client ID: CV0509I-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-17-a

Operator: SCC

16 Pyrene

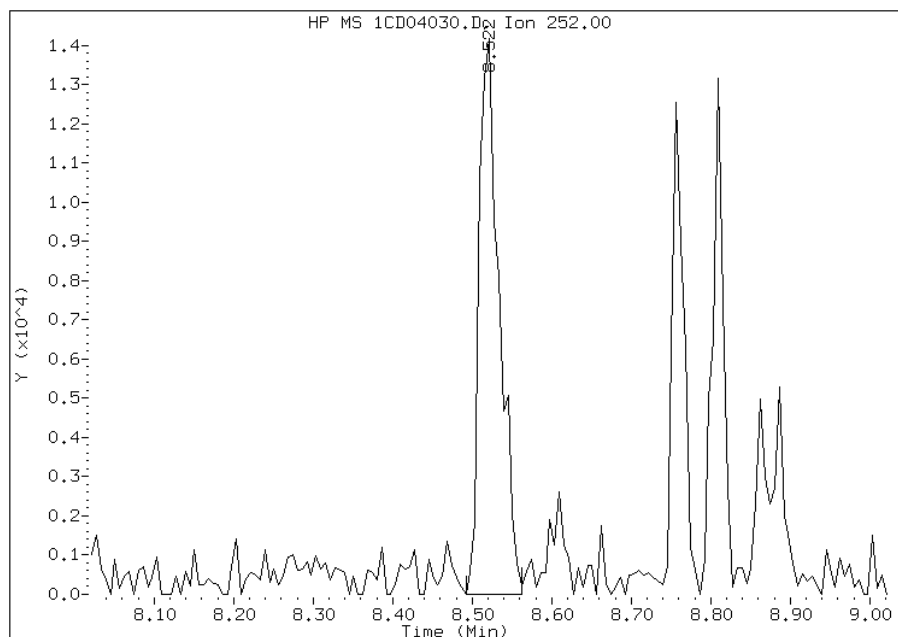


# Manual Integration Report

Data File: 1CD04030.D  
Inj. Date and Time: 04-APR-2013 20:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509I-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

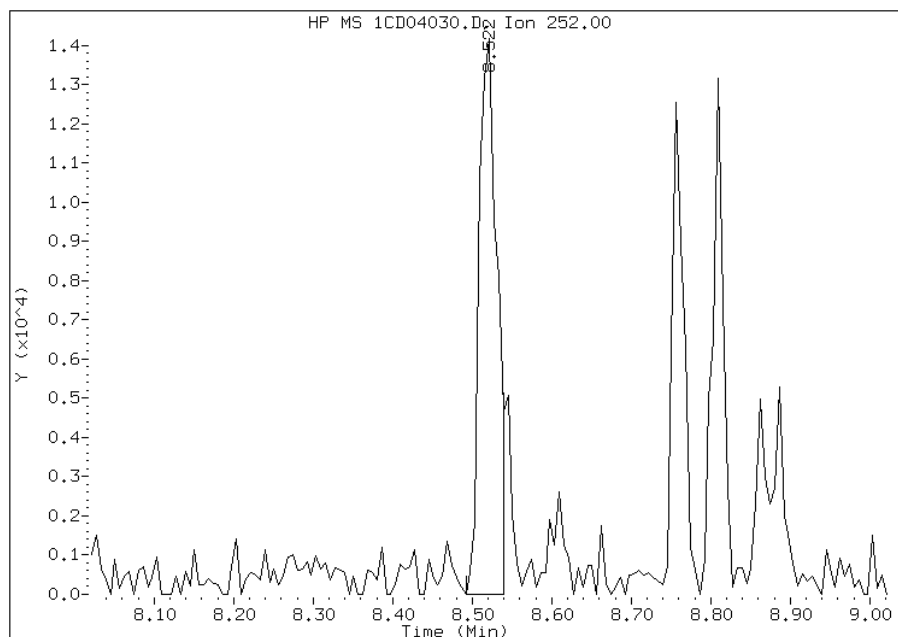
## Processing Integration Results

RT: 8.52  
Response: 25008  
Amount: 1  
Conc: 120



## Manual Integration Results

RT: 8.52  
Response: 22128  
Amount: 1  
Conc: 106



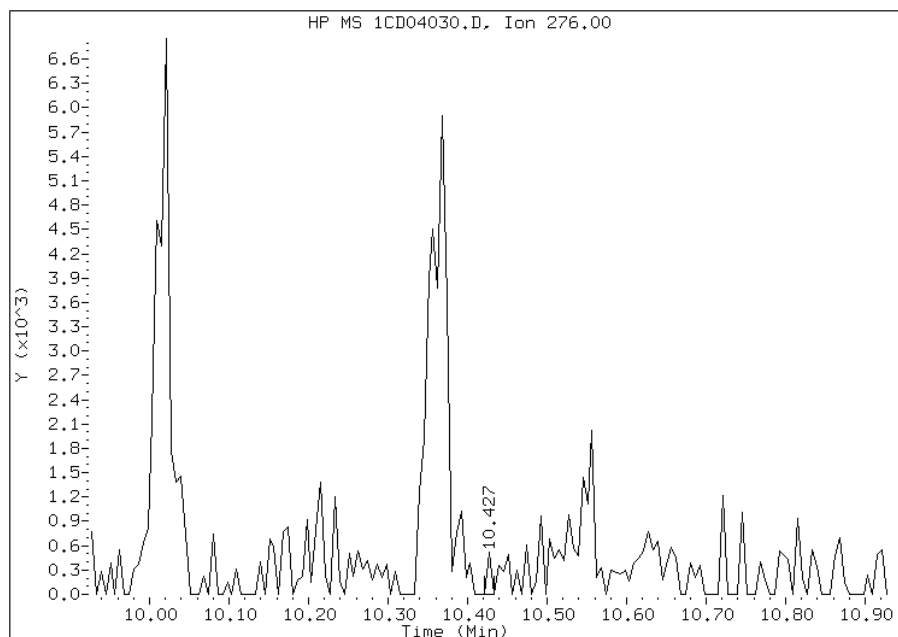
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:52  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04030.D  
Inj. Date and Time: 04-APR-2013 20:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509I-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/05/2013

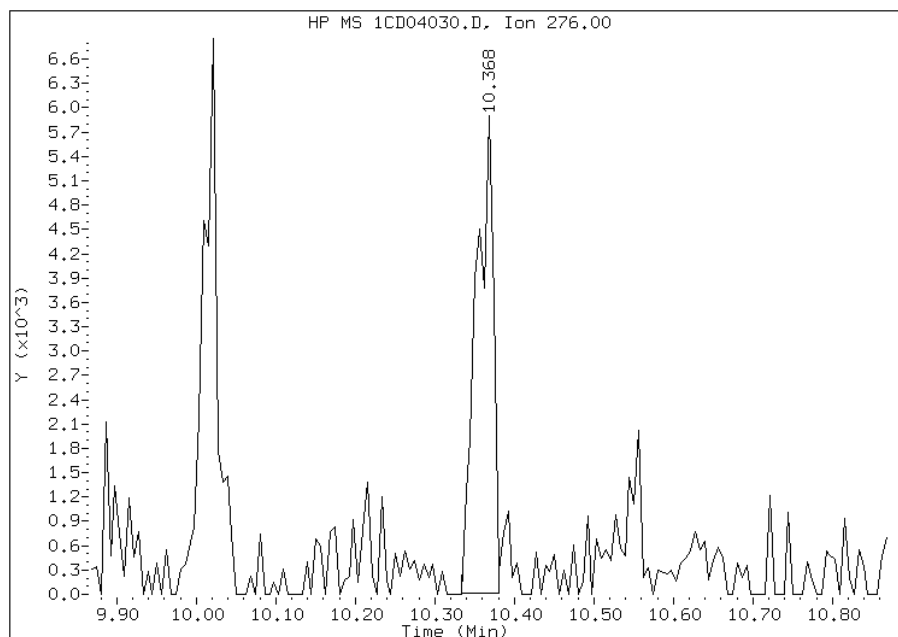
## Processing Integration Results

RT: 10.43  
Response: 183  
Amount: 0  
Conc: 1



## Manual Integration Results

RT: 10.37  
Response: 8836  
Amount: 0  
Conc: 46



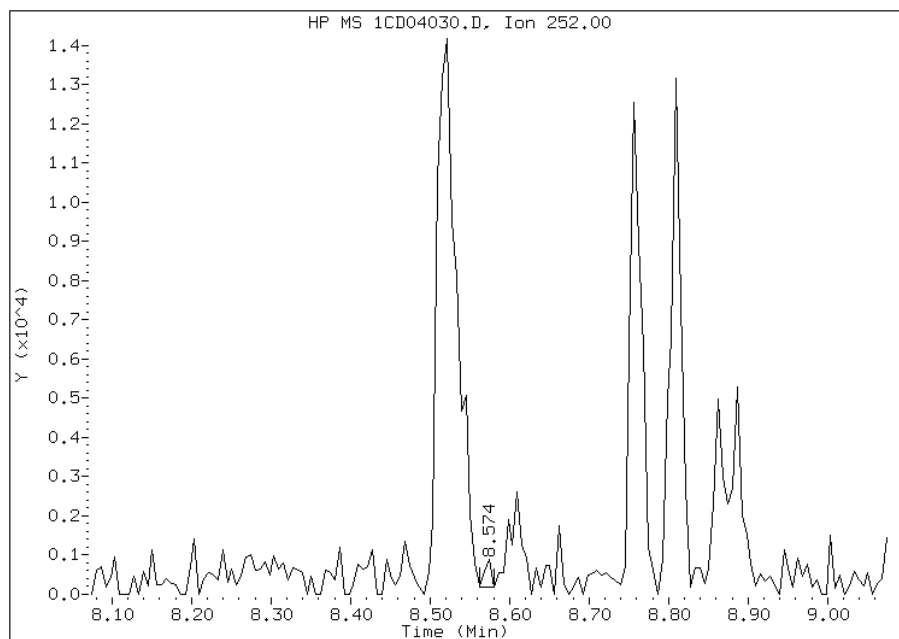
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04030.D  
Inj. Date and Time: 04-APR-2013 20:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509I-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

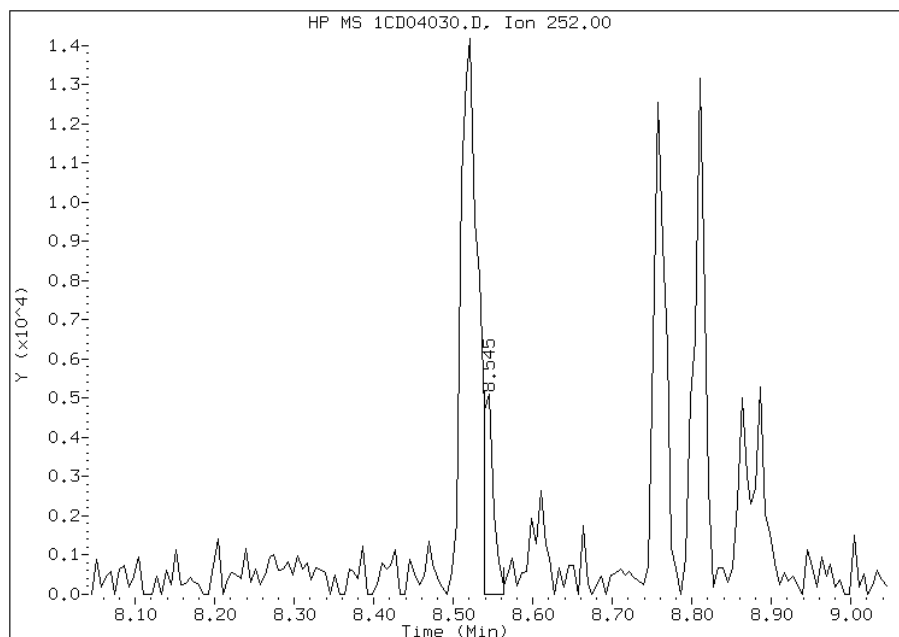
## Processing Integration Results

RT: 8.57  
Response: 402  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 8.55  
Response: 4559  
Amount: 0  
Conc: 23



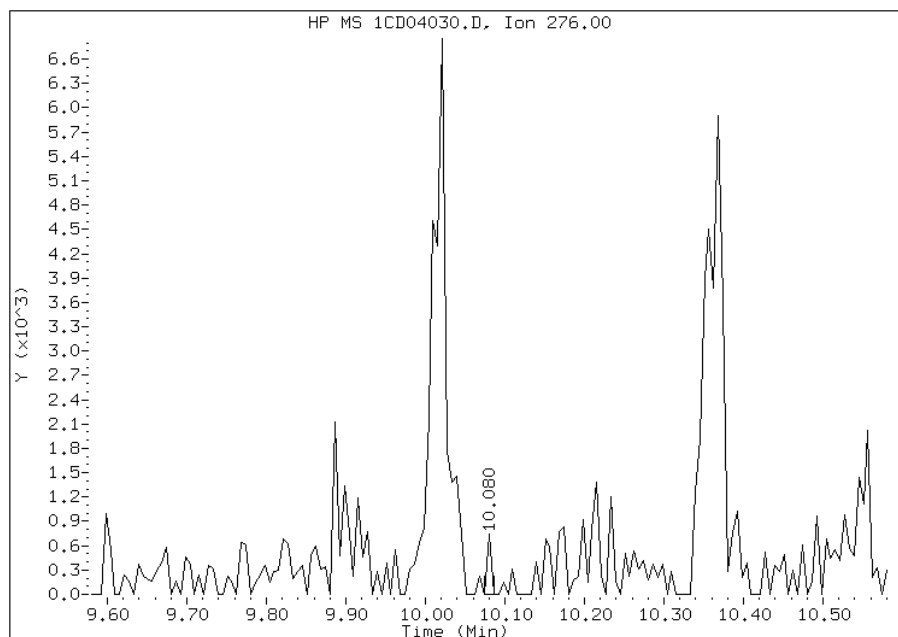
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:52  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04030.D  
Inj. Date and Time: 04-APR-2013 20:05  
Instrument ID: BSMC5973.i  
Client ID: CV0509I-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

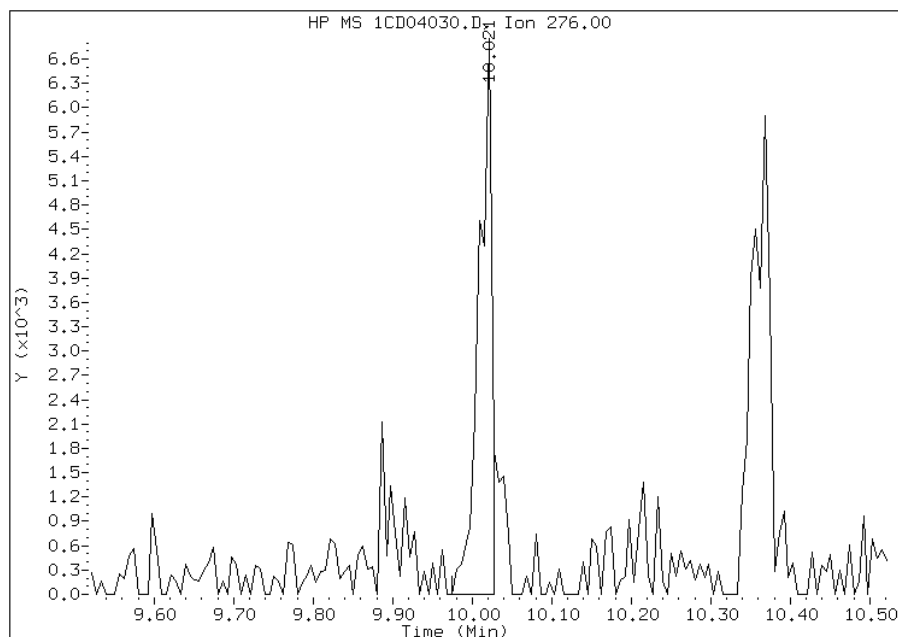
## Processing Integration Results

RT: 10.08  
Response: 262  
Amount: 0  
Conc: 1



## Manual Integration Results

RT: 10.02  
Response: 7704  
Amount: 0  
Conc: 41



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:53  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509J-CS Lab Sample ID: 680-88767-18  
 Matrix: Solid Lab File ID: 1CD04031.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:12  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 14.98(g) Date Analyzed: 04/04/2013 20:24  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 34.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	8.4	J	61	7.7
120-12-7	Anthracene	38		13	6.5
56-55-3	Benzo[a]anthracene	150		12	6.0
50-32-8	Benzo[a]pyrene	100		16	8.0
205-99-2	Benzo[b]fluoranthene	180		19	9.4
191-24-2	Benzo[g,h,i]perylene	77		31	6.8
207-08-9	Benzo[k]fluoranthene	54		12	5.5
218-01-9	Chrysene	130		14	6.9
53-70-3	Dibenz(a,h)anthracene	26	J	31	6.3
206-44-0	Fluoranthene	310		31	6.1
86-73-7	Fluorene	19	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	62		31	11
90-12-0	1-Methylnaphthalene	21	J	61	6.8
91-57-6	2-Methylnaphthalene	28	J	61	11
91-20-3	Naphthalene	42	J	61	6.8
85-01-8	Phenanthrene	190		12	6.0
129-00-0	Pyrene	220		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\1CD04031.D  
 Lab Smp Id: 680-88767-A-18-A Client Smp ID: CV0509J-CS  
 Inj Date : 04-APR-2013 20:24  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-18-a  
 Misc Info : 680-88767-A-18-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins 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	14.980	Weight Extracted
M	34.867	% 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		3.698	3.692	(1.000)	514340	40.0000		
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	395482	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	777167	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	80768	7.09247	726.9145	
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	865641	40.0000		
* 23 Perylene-d12	264		8.862	8.886	(1.000)	836089	40.0000	(H)	
2 Naphthalene	128		3.710	3.710	(1.003)	5450	0.41254	42.2820(Q)	
3 2-Methylnaphthalene	142		4.139	4.133	(1.119)	2473	0.27500	28.1849	
4 1-Methylnaphthalene	142		4.198	4.198	(1.135)	1634	0.20193	20.6965	
5 Acenaphthylene	152		4.698	4.698	(0.982)	1345	0.08217	8.4219	
9 Fluorene	166		5.127	5.127	(1.071)	2490	0.18424	18.8832	
11 Phenanthrene	178		5.751	5.751	(1.003)	42849	1.89307	194.0223	
12 Anthracene	178		5.780	5.786	(1.008)	8599	0.37477	38.4102	
13 Carbazole	167		5.898	5.898	(1.029)	6845	0.34820	35.6878	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.586	6.592	(1.149)	75772	3.03122	310.6729
16 Pyrene	202	6.757	6.763	(0.880)	51334	2.14080	219.4125
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	32844	1.44510	148.1097
19 Chrysene	228	7.698	7.710	(1.002)	30366	1.23104	126.1703
20 Benzo(b)fluoranthene	252	8.515	8.533	(0.961)	40785	1.72548	176.8459(MH)
21 Benzo(k)fluoranthene	252	8.539	8.557	(0.963)	11959	0.52311	53.6144(QMH)
22 Benzo(a)pyrene	252	8.803	8.827	(0.993)	22253	0.99997	102.4881(H)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056	(1.130)	12751	0.60326	61.8290(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.074	(1.131)	5026	0.25741	26.3821(MH)
26 Benzo(g,h,i)perylene	276	10.356	10.415	(1.169)	16111	0.74683	76.5432(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: 1CD04031.D

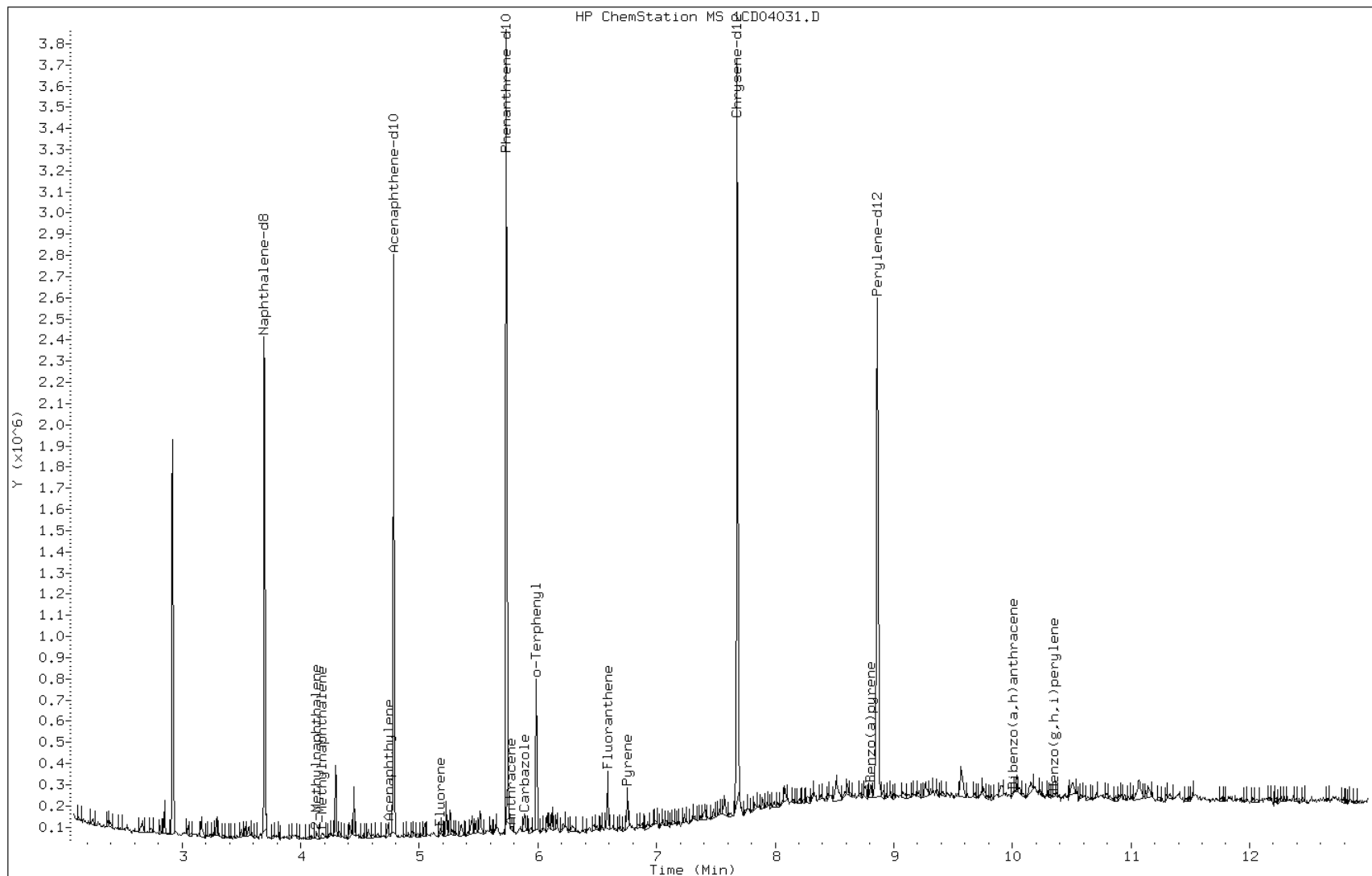
Date: 04-APR-2013 20:24

Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

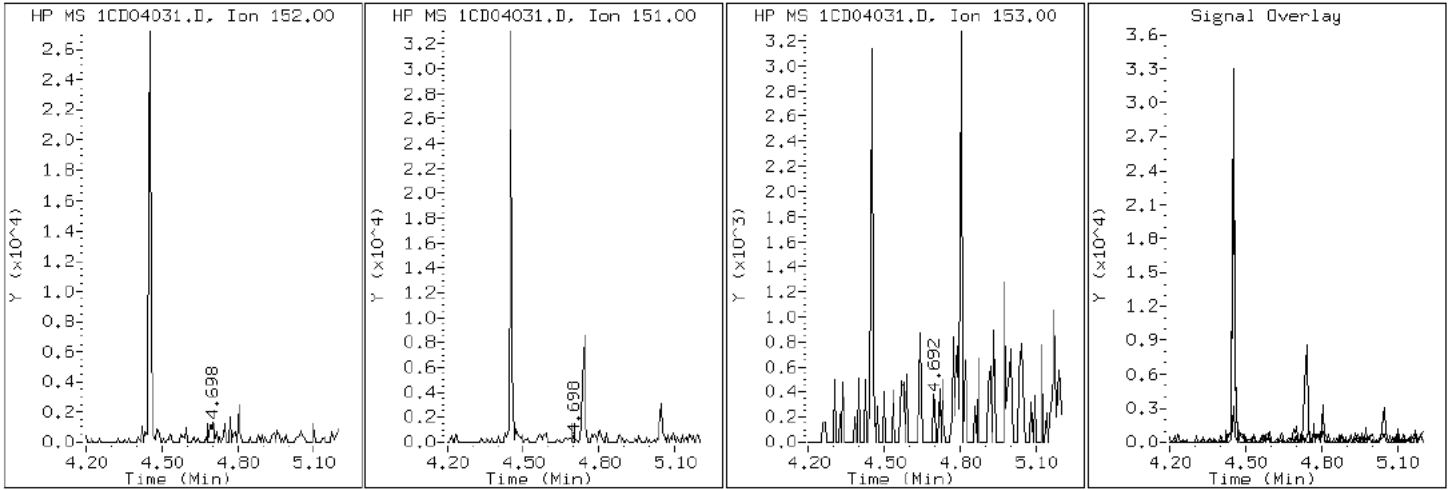
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

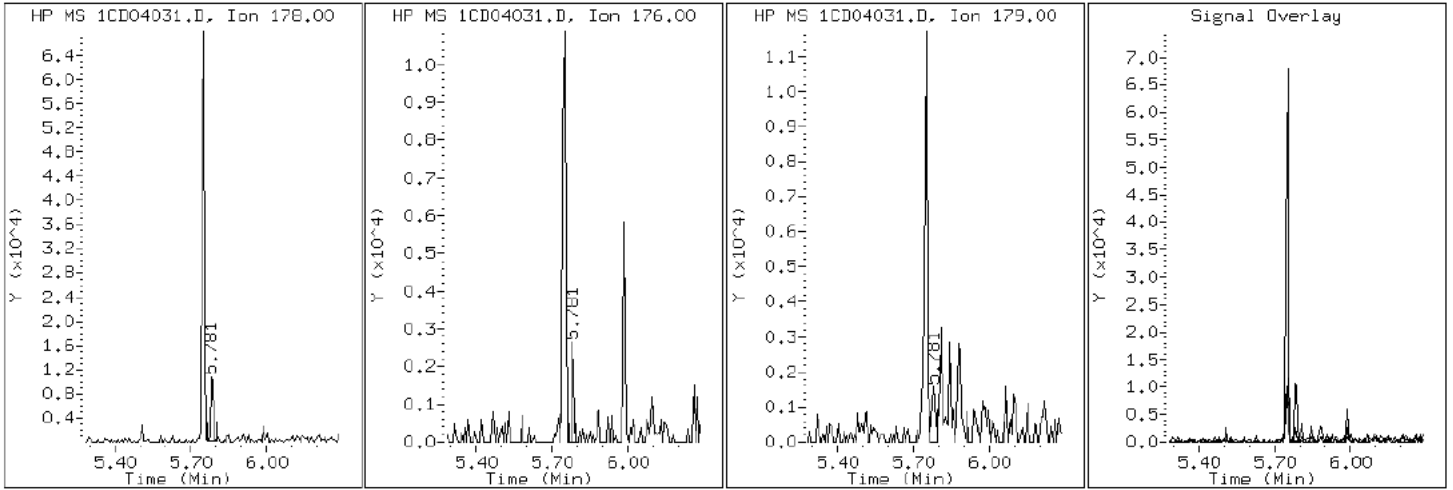
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

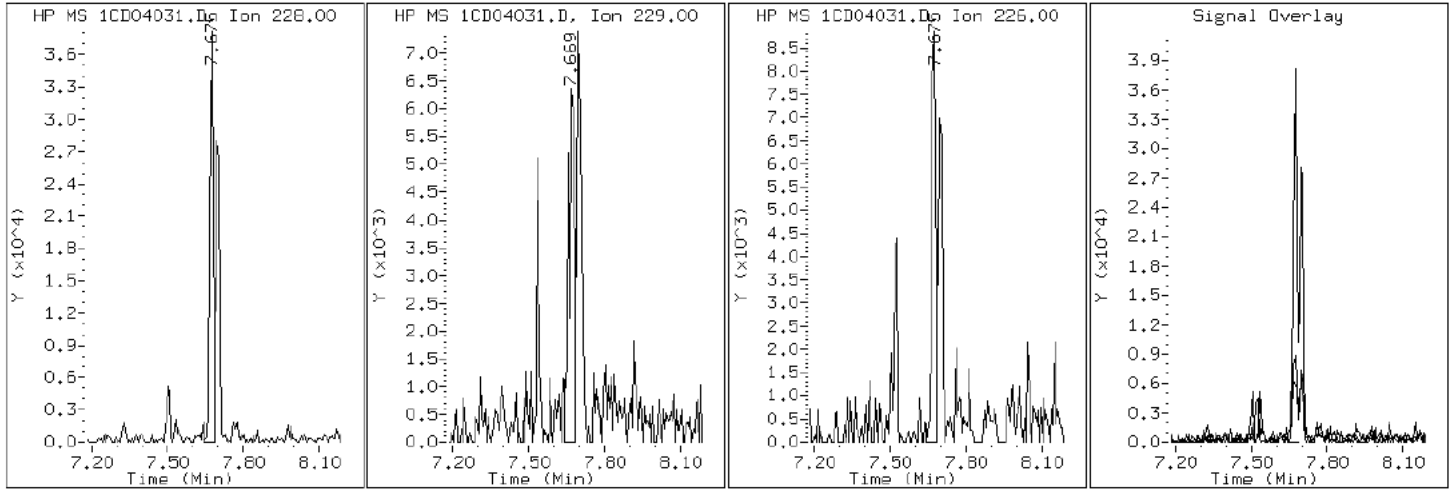
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

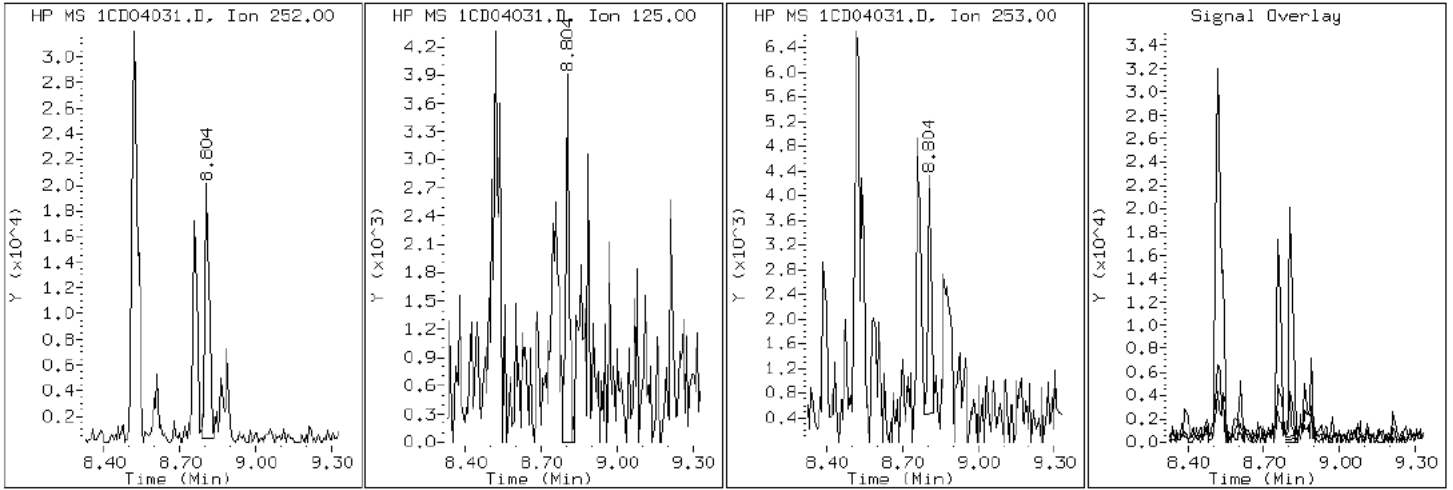
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

22 Benzo(a)pyrene





Data File: 1CD04031.D

Date: 04-APR-2013 20:24

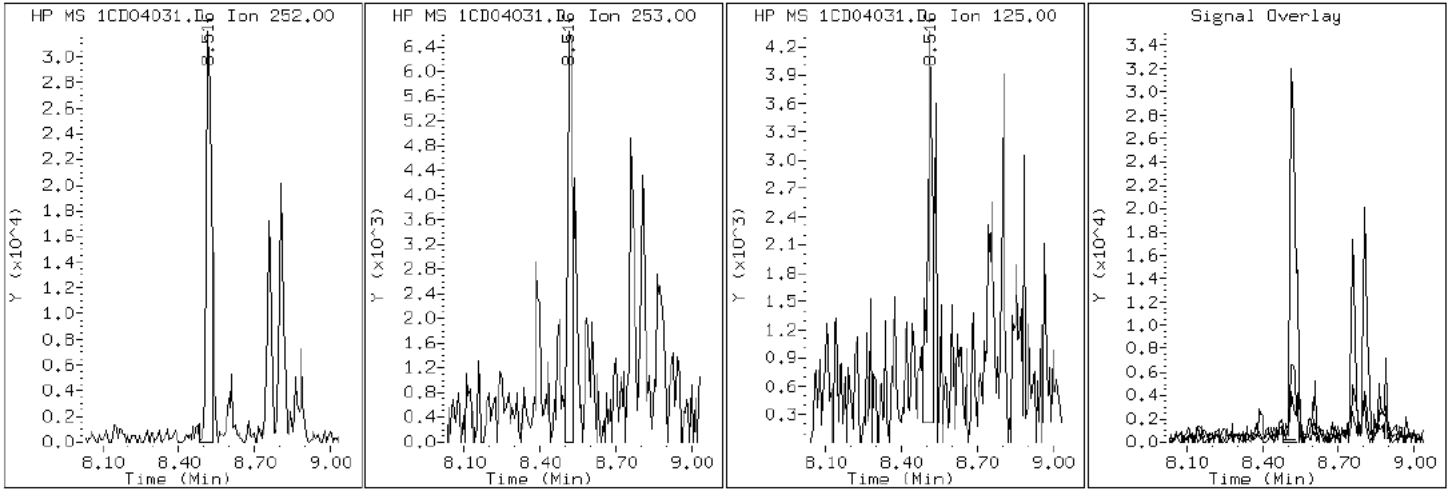
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

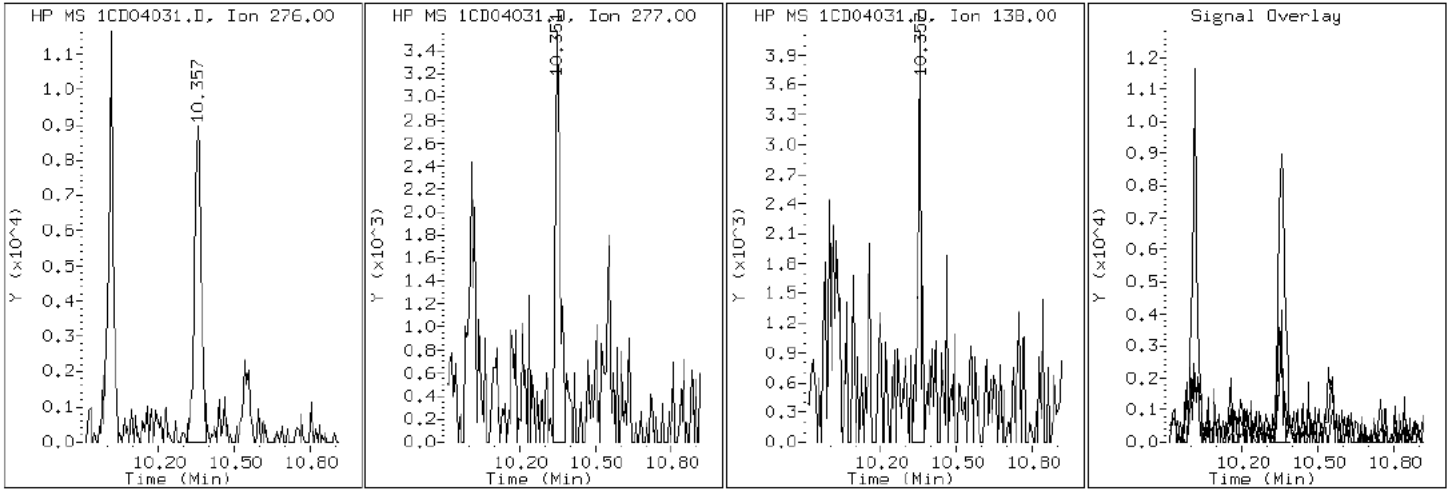
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

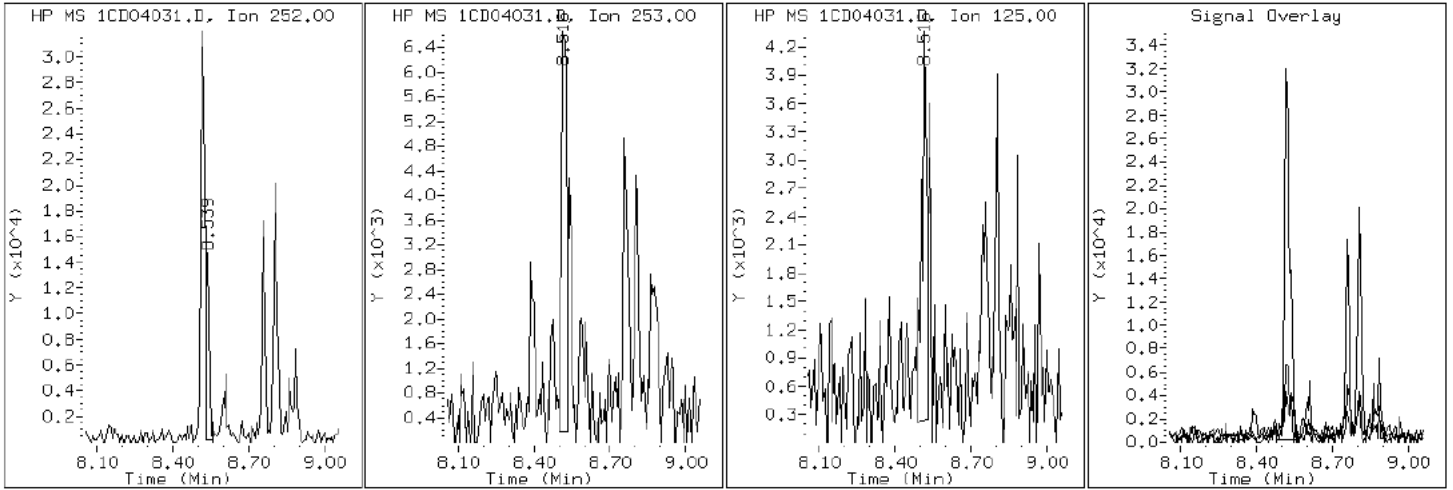
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

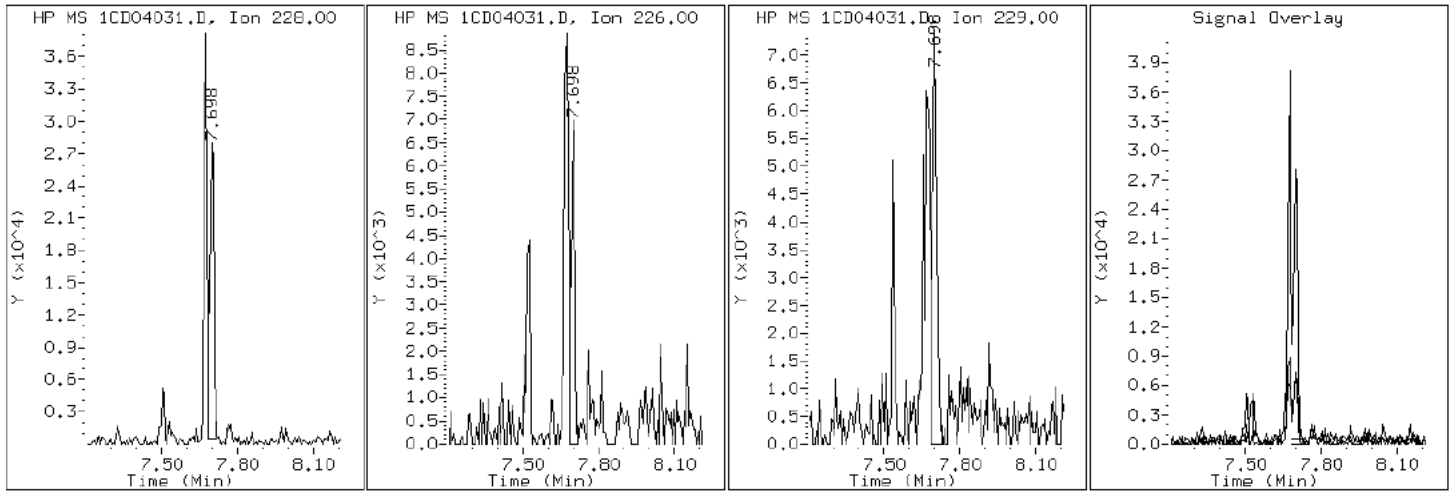
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

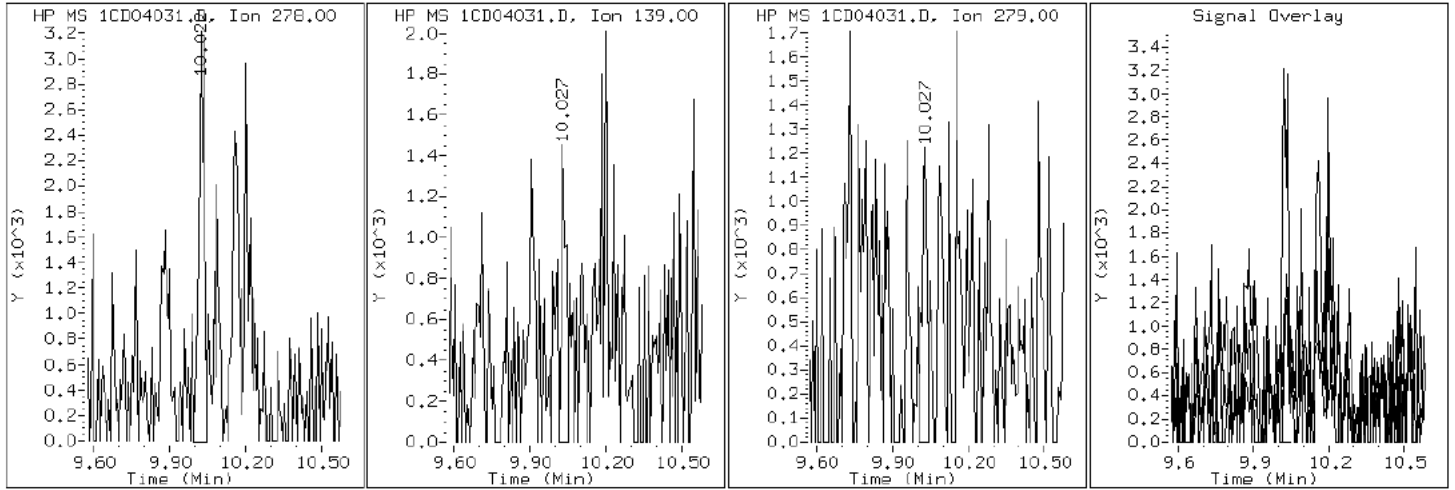
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

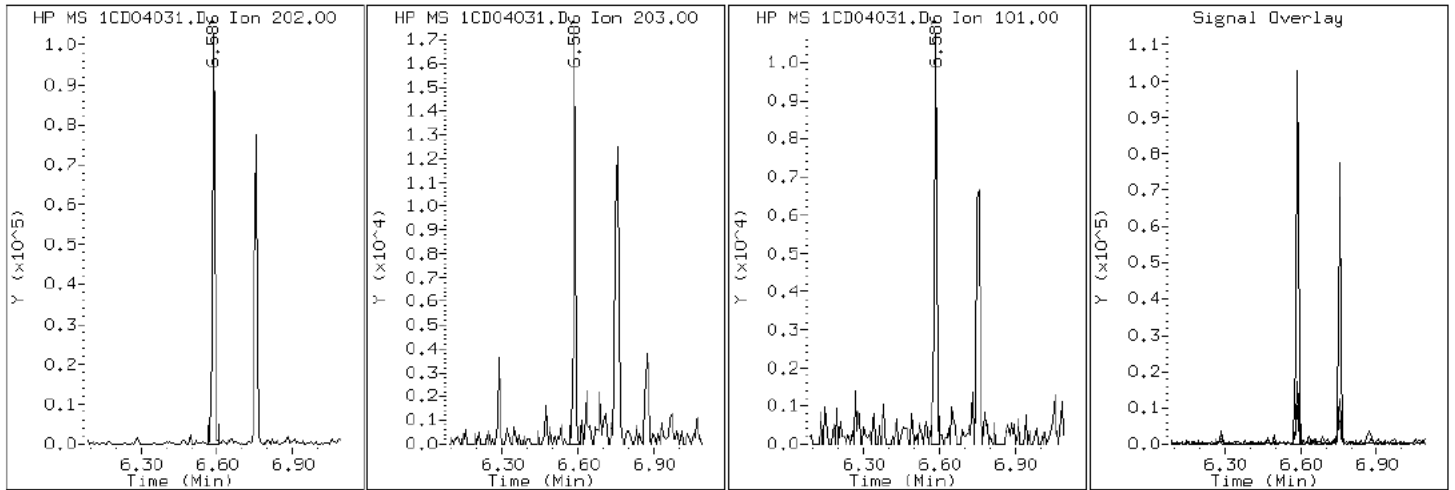
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

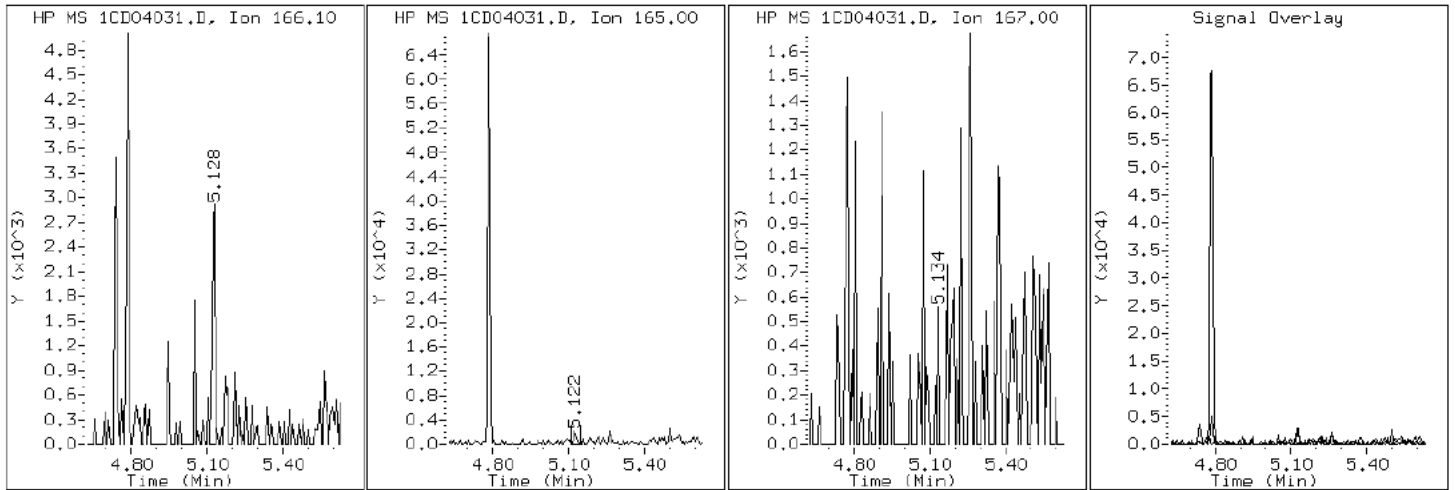
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

9 Fluorene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

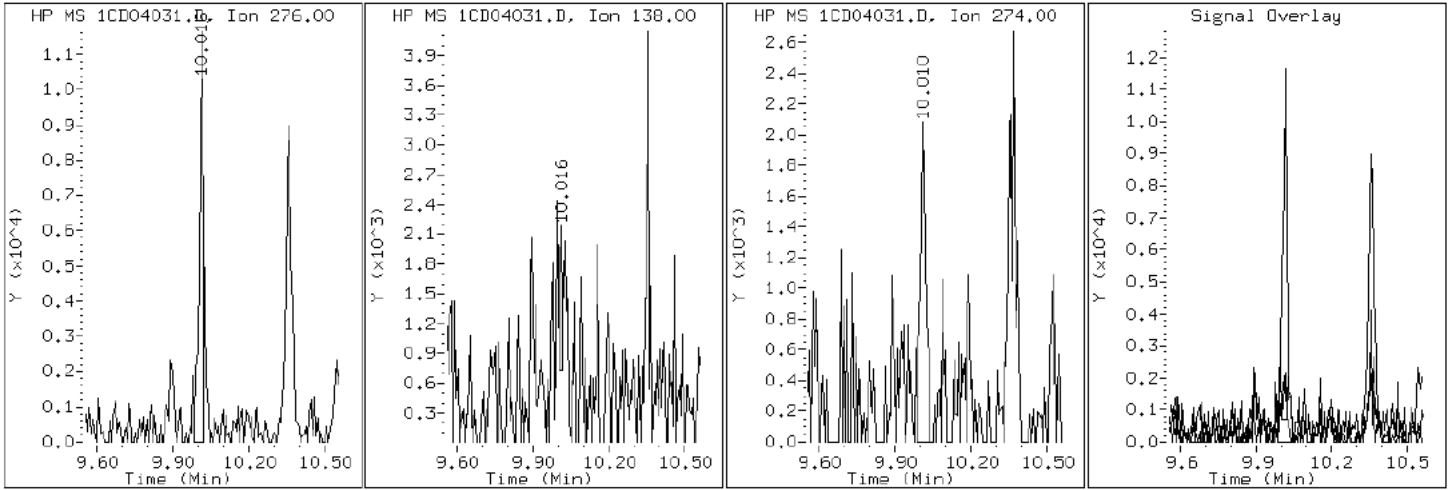
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

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





Data File: 1CD04031.D

Date: 04-APR-2013 20:24

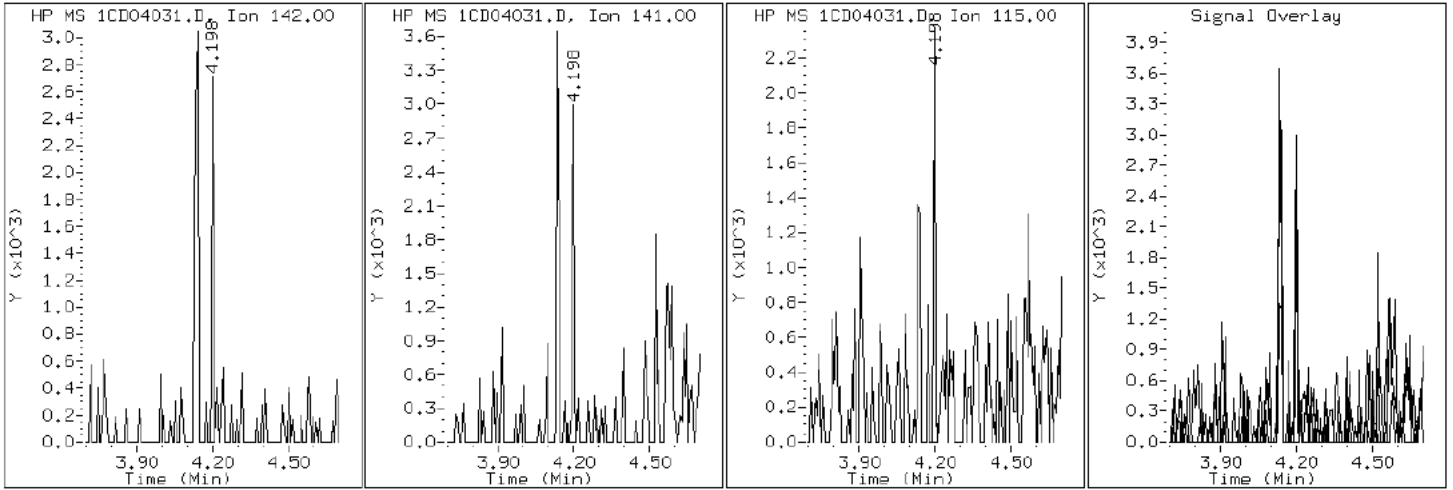
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

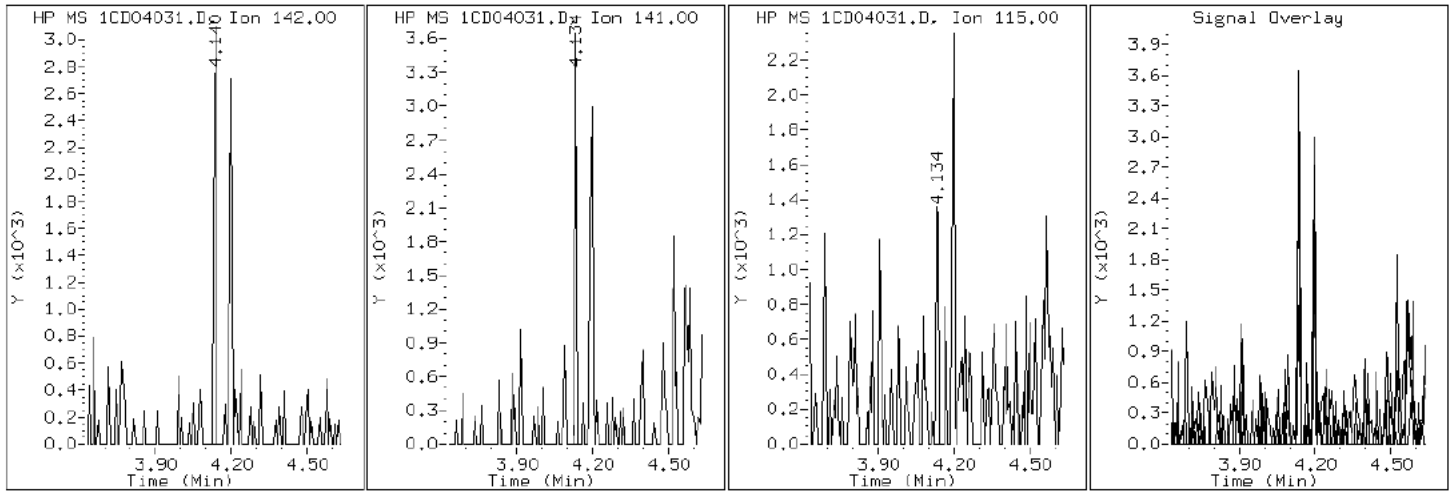
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

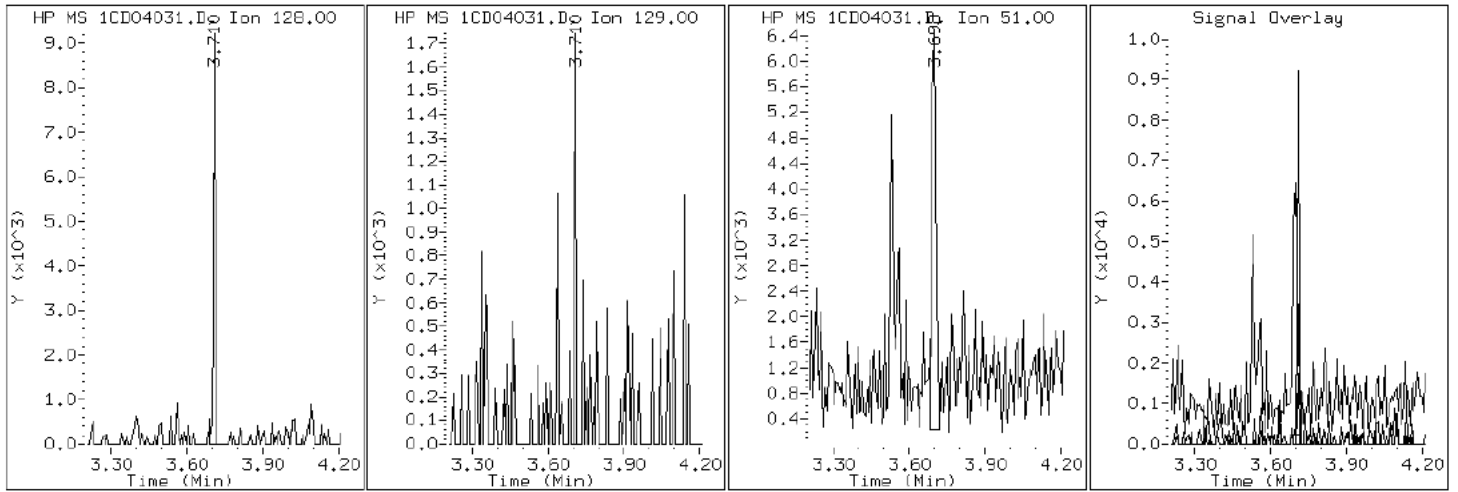
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

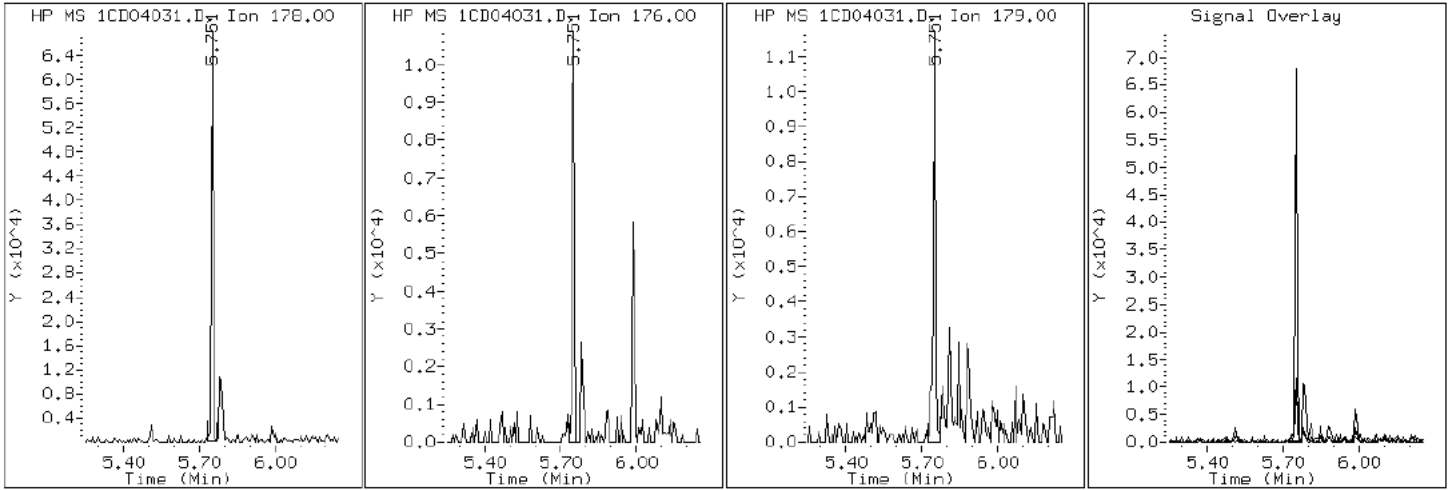
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04031.D

Date: 04-APR-2013 20:24

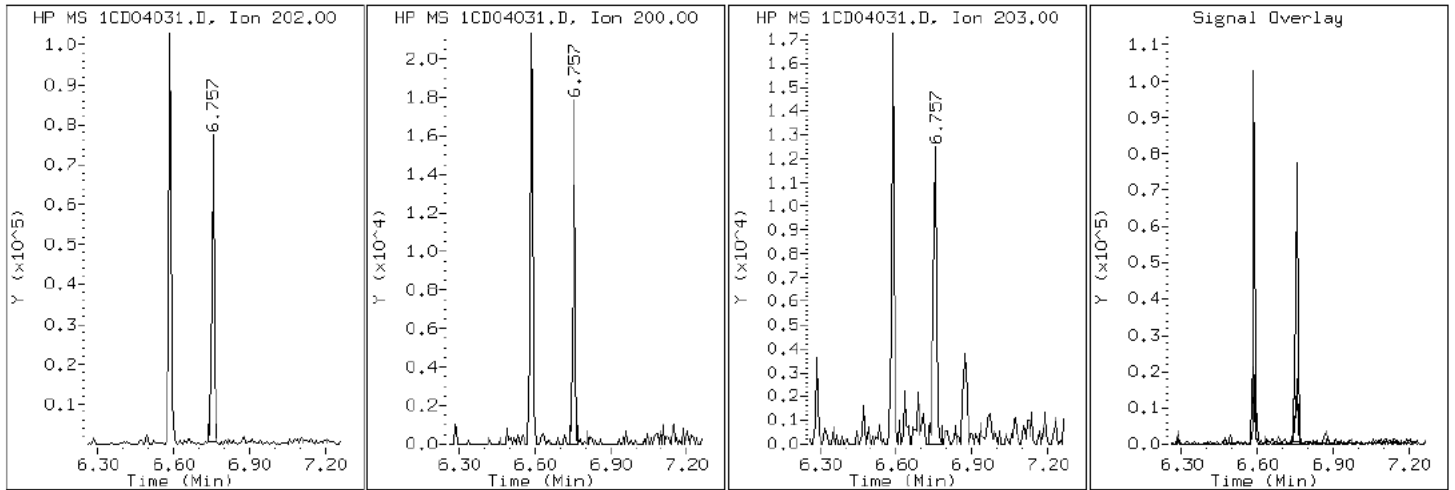
Client ID: CV0509J-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-18-a

Operator: SCC

16 Pyrene

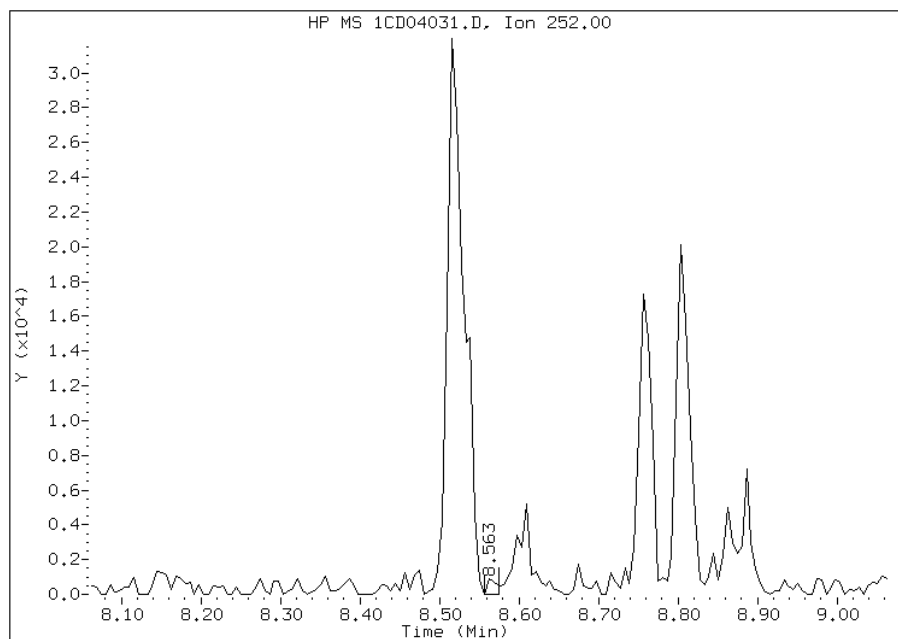


# Manual Integration Report

Data File: 1CD04031.D  
Inj. Date and Time: 04-APR-2013 20:24  
Instrument ID: BSMC5973.i  
Client ID: CV0509J-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

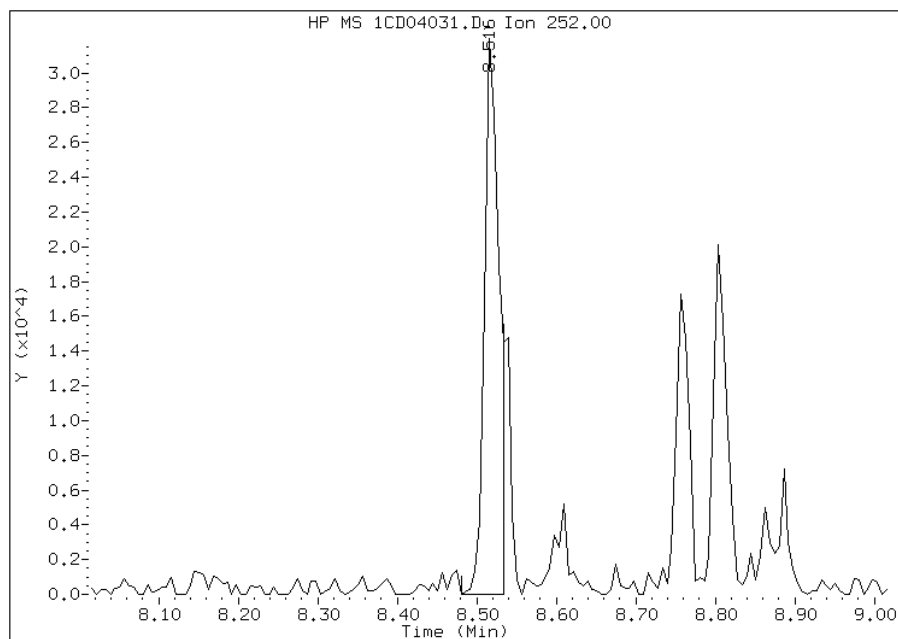
## Processing Integration Results

RT: 8.56  
Response: 718  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 8.52  
Response: 40785  
Amount: 2  
Conc: 177



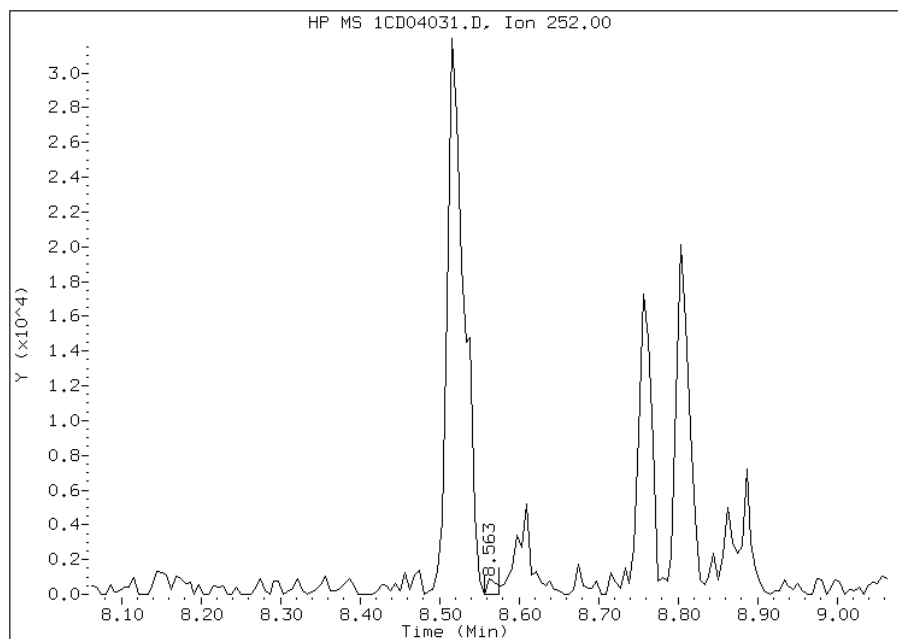
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:53  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04031.D  
Inj. Date and Time: 04-APR-2013 20:24  
Instrument ID: BSMC5973.i  
Client ID: CV0509J-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

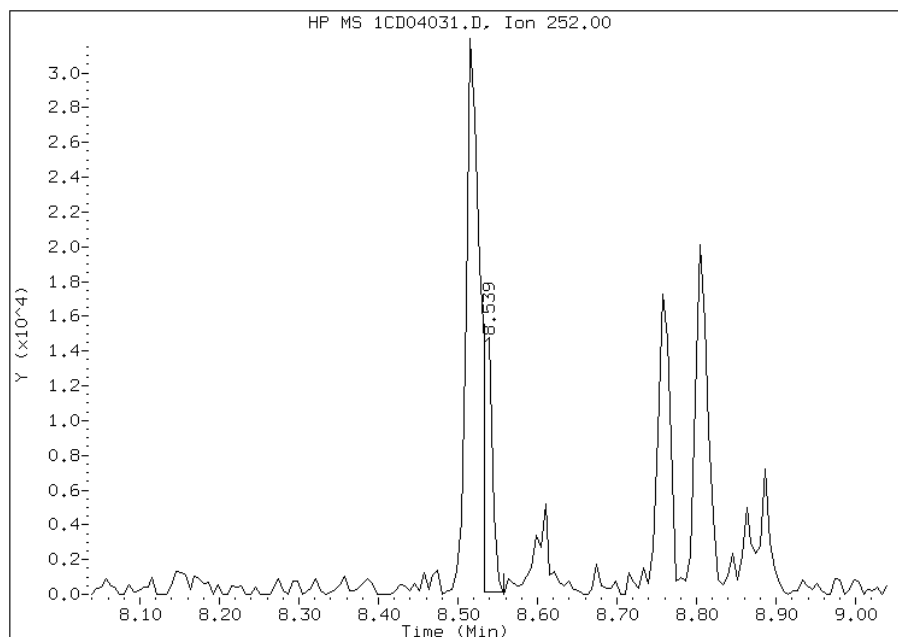
## Processing Integration Results

RT: 8.56  
Response: 718  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 8.54  
Response: 11959  
Amount: 1  
Conc: 54



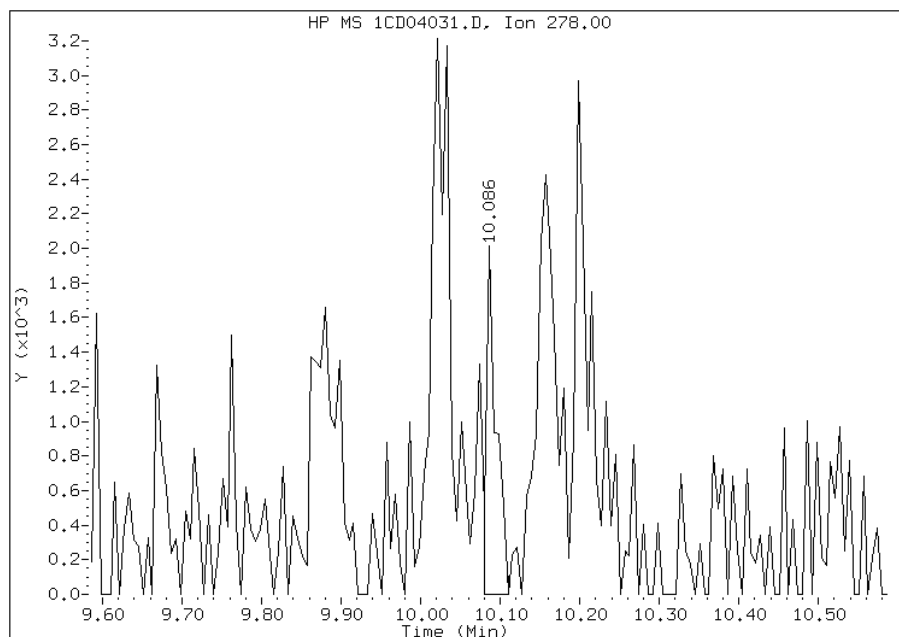
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:53  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04031.D  
Inj. Date and Time: 04-APR-2013 20:24  
Instrument ID: BSMC5973.i  
Client ID: CV0509J-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/05/2013

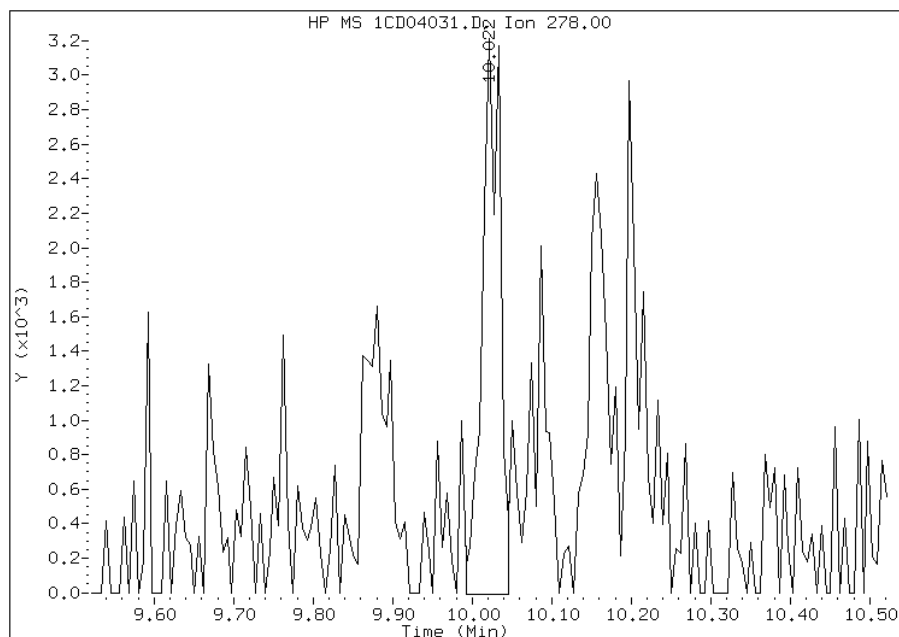
## Processing Integration Results

RT: 10.09  
Response: 1724  
Amount: 0  
Conc: 9



## Manual Integration Results

RT: 10.02  
Response: 5026  
Amount: 0  
Conc: 26



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:54  
Manual Integration Reason: Baseline Event

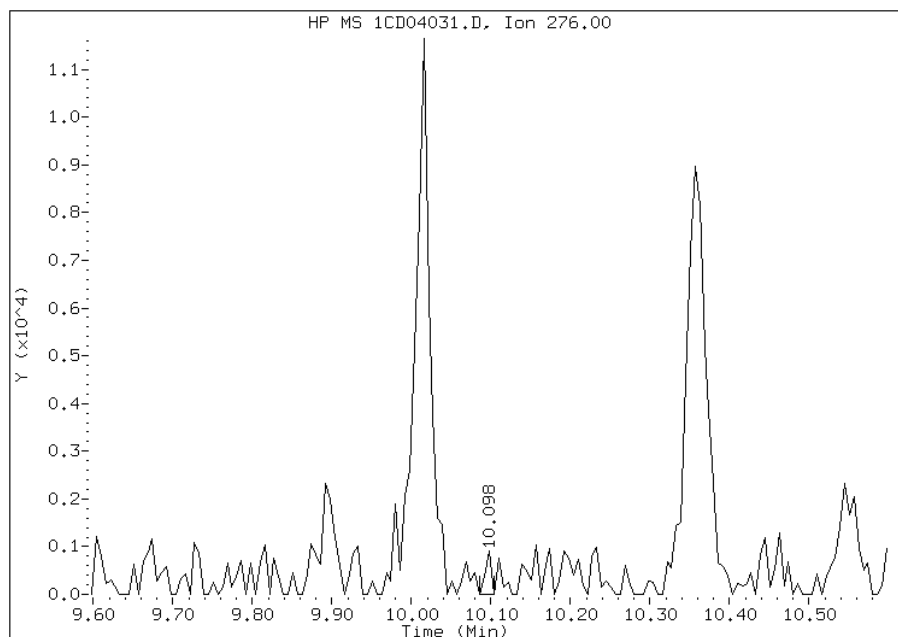


# Manual Integration Report

Data File: 1CD04031.D  
Inj. Date and Time: 04-APR-2013 20:24  
Instrument ID: BSMC5973.i  
Client ID: CV0509J-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

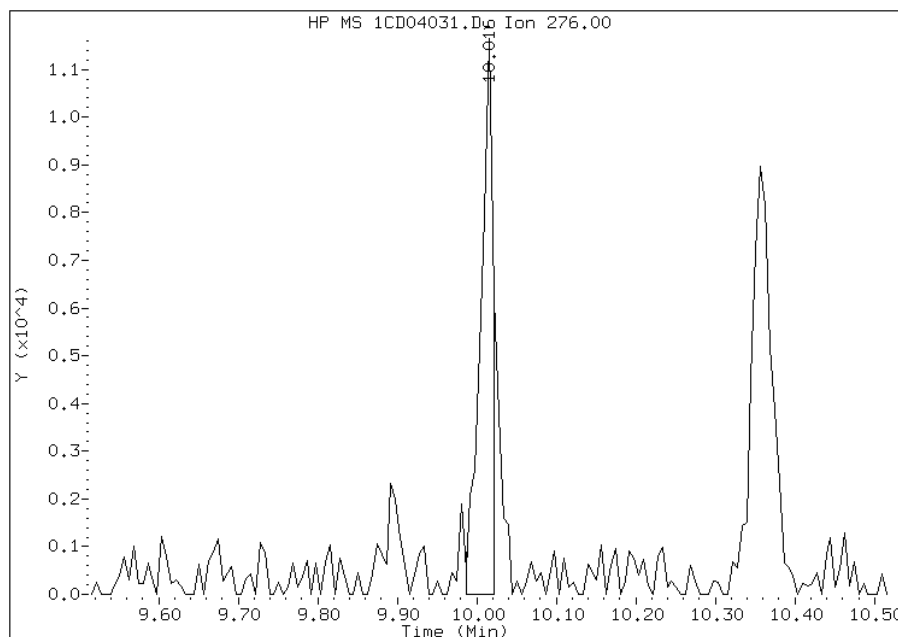
## Processing Integration Results

RT: 10.10  
Response: 457  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 10.02  
Response: 12751  
Amount: 1  
Conc: 62



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:54  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509K-CS Lab Sample ID: 680-88767-19  
 Matrix: Solid Lab File ID: 1CD04032.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:18  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.28(g) Date Analyzed: 04/04/2013 20:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 29.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	11	J	55	6.9
120-12-7	Anthracene	68		12	5.8
56-55-3	Benzo[a]anthracene	370		11	5.4
50-32-8	Benzo[a]pyrene	250		14	7.2
205-99-2	Benzo[b]fluoranthene	410		17	8.5
191-24-2	Benzo[g,h,i]perylene	170		28	6.1
207-08-9	Benzo[k]fluoranthene	220		11	5.0
218-01-9	Chrysene	380		12	6.2
53-70-3	Dibenz(a,h)anthracene	60		28	5.7
206-44-0	Fluoranthene	740		28	5.5
86-73-7	Fluorene	31		28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	190		28	9.8
90-12-0	1-Methylnaphthalene	35	J	55	6.1
91-57-6	2-Methylnaphthalene	33	J	55	9.8
91-20-3	Naphthalene	49	J	55	6.1
85-01-8	Phenanthrene	310		11	5.4
129-00-0	Pyrene	630		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04032.D  
 Lab Smp Id: 680-88767-A-19-A Client Smp ID: CV0509K-CS  
 Inj Date : 04-APR-2013 20:42  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-19-a  
 Misc Info : 680-88767-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 32  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	29.149	% 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		3.698	3.692 (1.000)		510104	40.0000	
* 6 Acenaphthene-d10	164		4.786	4.786 (1.000)		379836	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733 (1.000)		749444	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992 (1.044)		74850	6.84421	632.1988
* 18 Chrysene-d12	240		7.680	7.692 (1.000)		850338	40.0000	
* 23 Perylene-d12	264		8.862	8.886 (1.000)		832882	40.0000	(H)
2 Naphthalene	128		3.710	3.710 (1.003)		6895	0.52626	48.6104
3 2-Methylnaphthalene	142		4.133	4.133 (1.118)		3159	0.35420	32.7174(Q)
4 1-Methylnaphthalene	142		4.198	4.198 (1.135)		3084	0.38430	35.4973
5 Acenaphthylene	152		4.698	4.698 (0.982)		1956	0.12442	11.4929
9 Fluorene	166		5.121	5.127 (1.070)		4319	0.33274	30.7352
11 Phenanthrene	178		5.751	5.751 (1.003)		72393	3.31663	306.3564
12 Anthracene	178		5.786	5.786 (1.009)		16390	0.74074	68.4222
13 Carbazole	167		5.892	5.898 (1.028)		11809	0.62294	57.5413

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.586	6.592	(1.149)	194367	8.06318	744.7949
16 Pyrene	202	6.756	6.763	(0.880)	160326	6.80645	628.7106
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	95222	4.00040	369.5160
19 Chrysene	228	7.698	7.710	(1.002)	98626	4.07025	375.9688
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.962)	103819	4.40915	407.2722(M)
21 Benzo(k)fluoranthene	252	8.527	8.557	(0.962)	54467	2.39168	220.9195(MH)
22 Benzo(a)pyrene	252	8.809	8.827	(0.994)	60653	2.73603	252.7264(H)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056	(1.130)	42673	2.02668	187.2037(MH)
25 Dibenzo(a,h)anthracene	278	10.033	10.074	(1.132)	12630	0.64934	59.9796(H)
26 Benzo(g,h,i)perylene	276	10.362	10.415	(1.169)	40234	1.87224	172.9381(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: 1CD04032.D

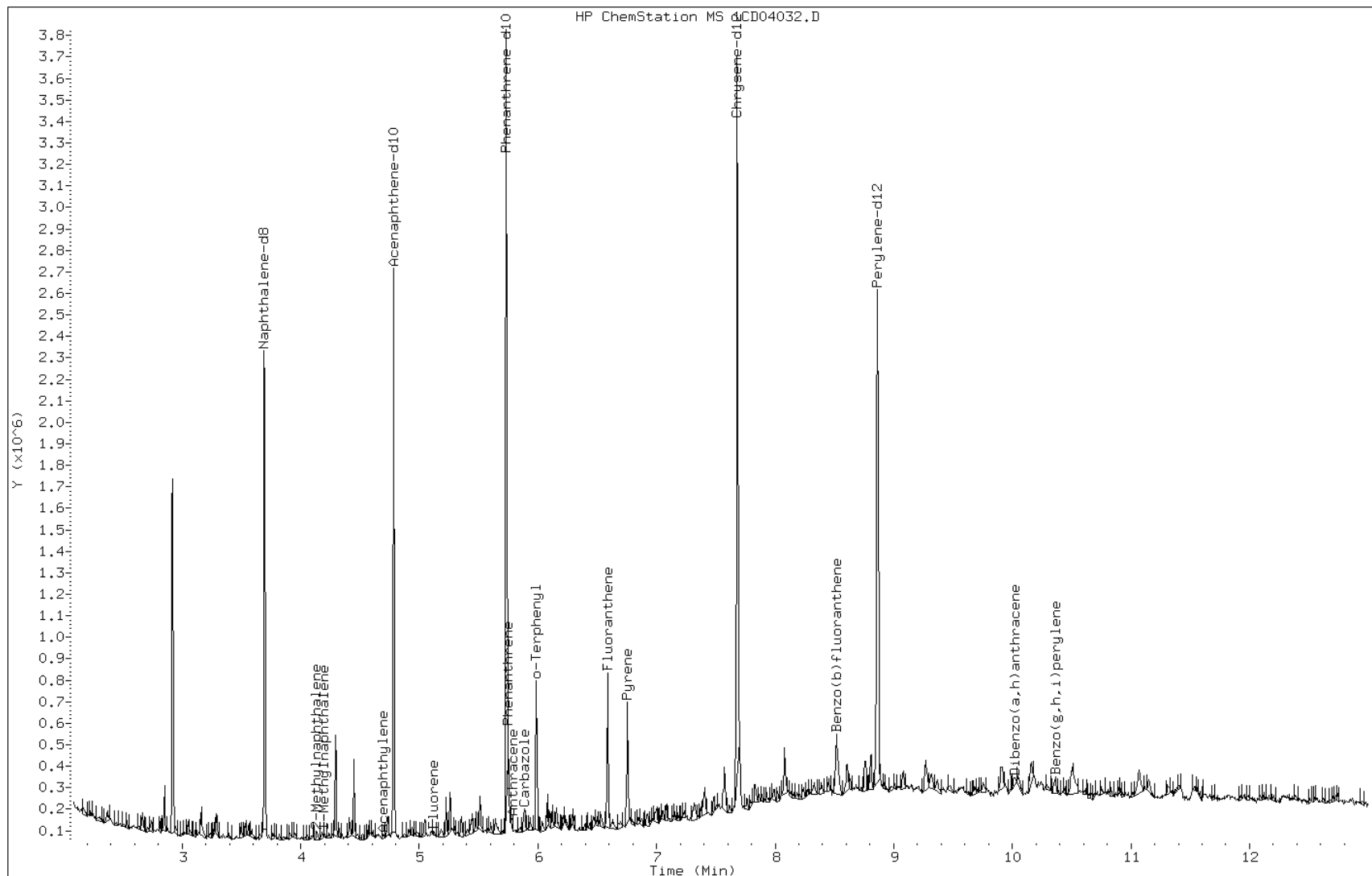
Date: 04-APR-2013 20:42

Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

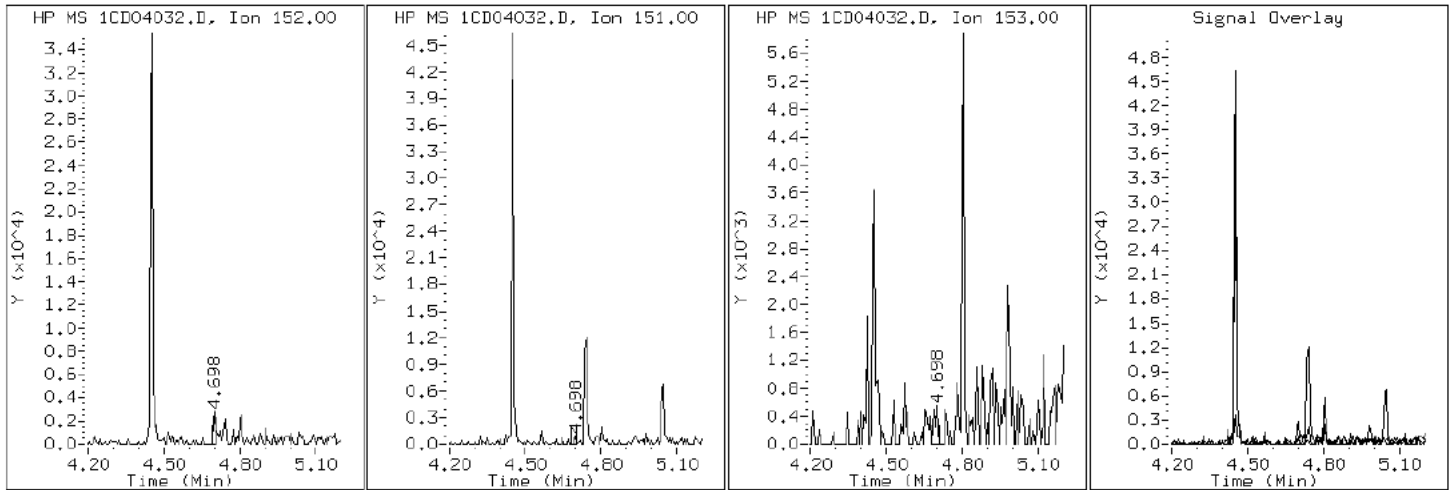
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

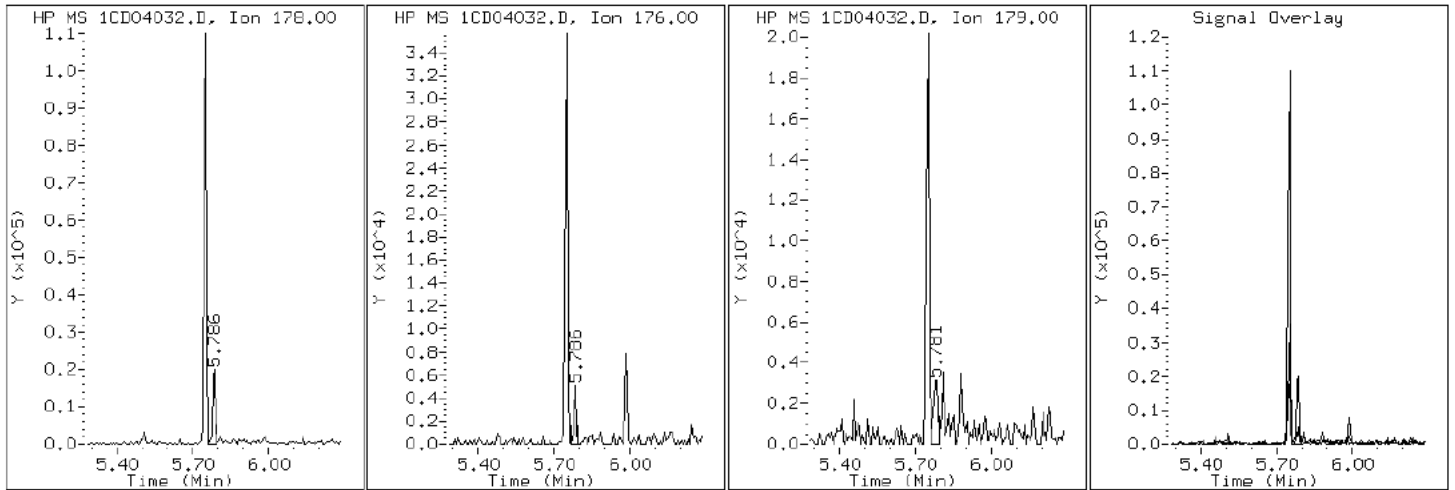
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

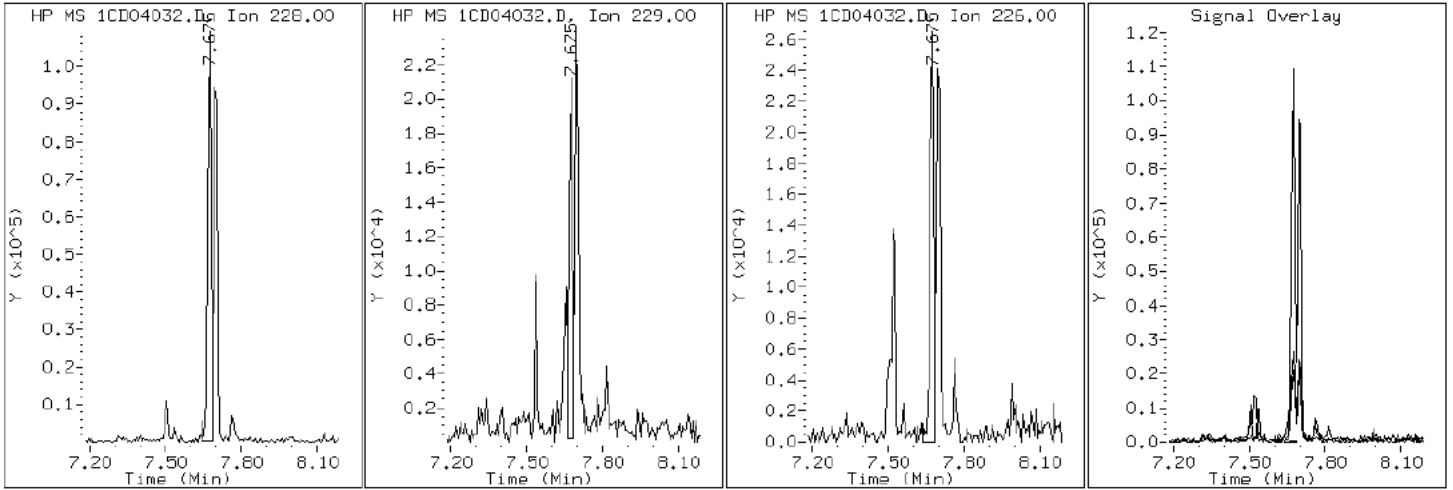
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CD04032.D

Date: 04-APR-2013 20:42

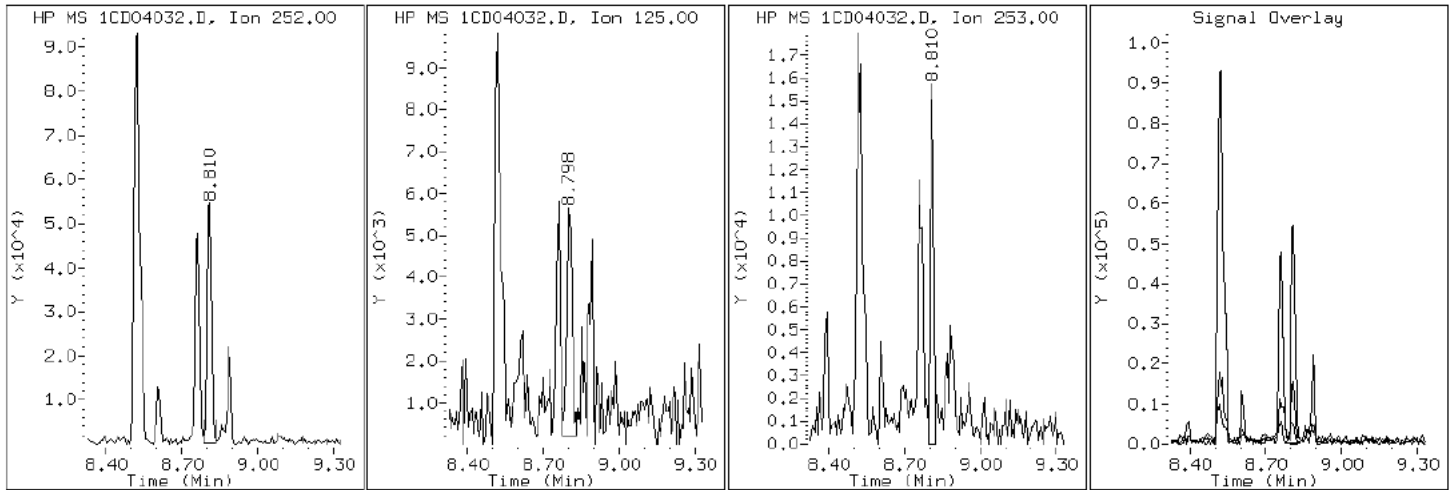
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

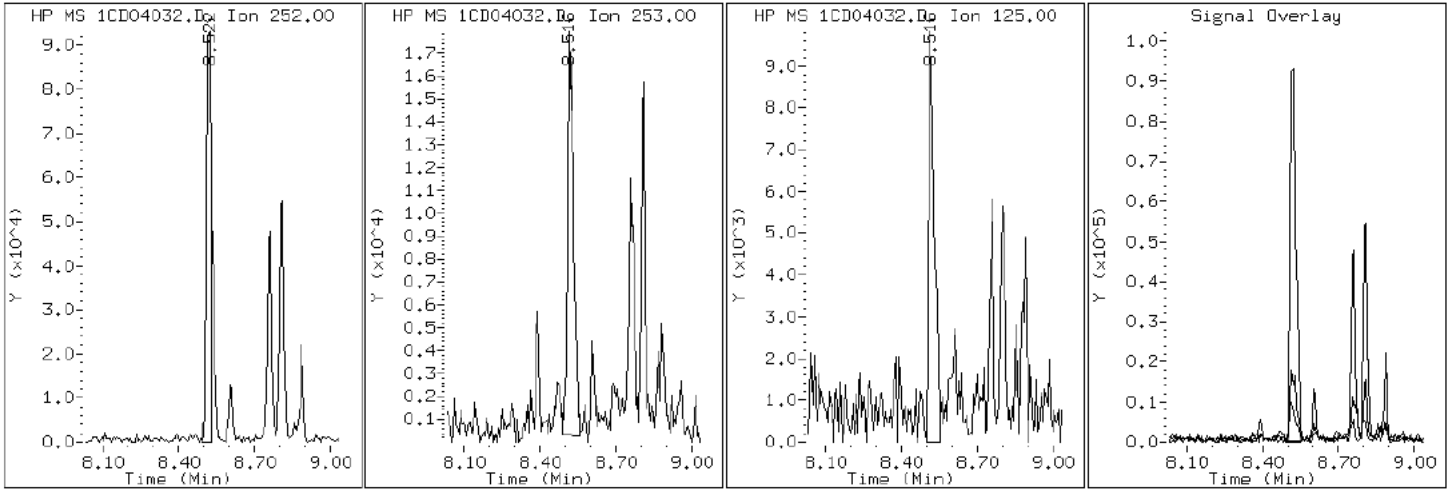
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

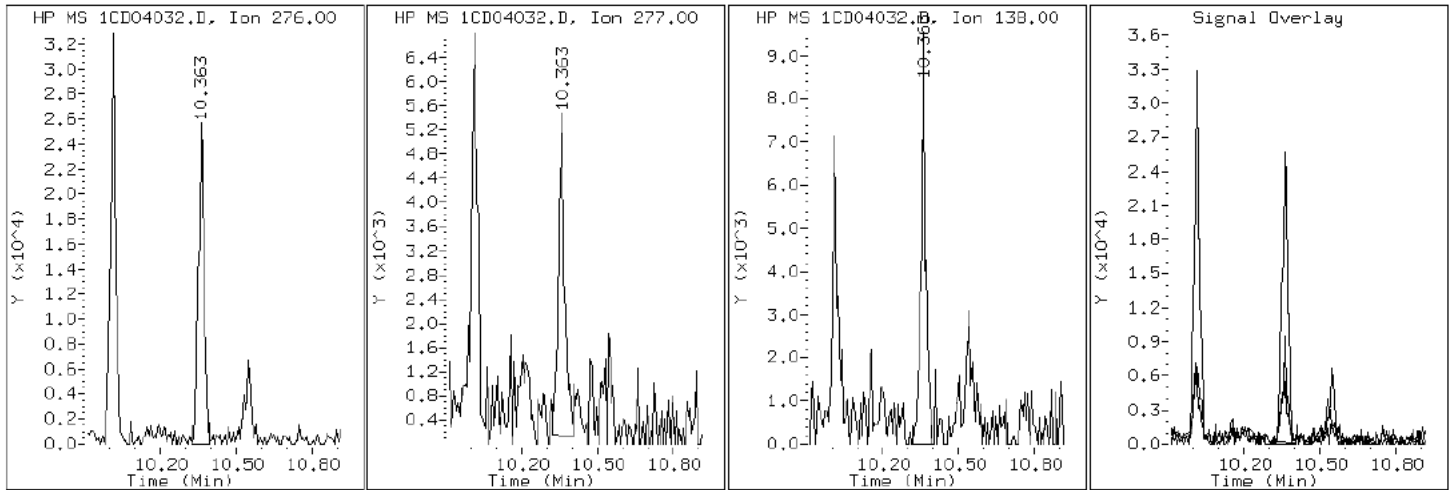
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

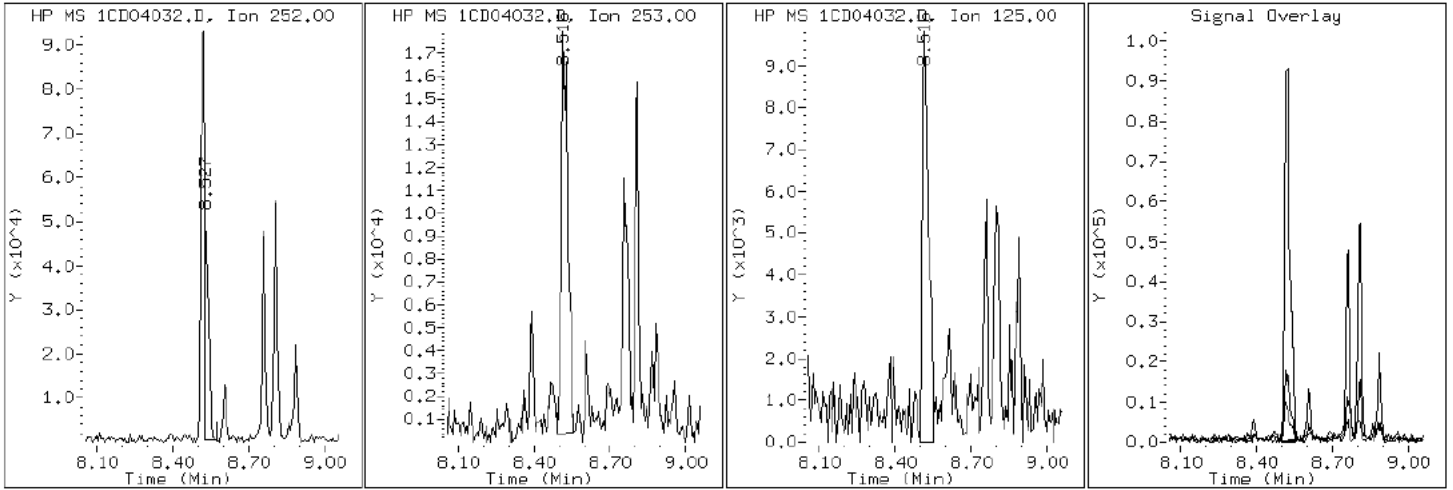
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

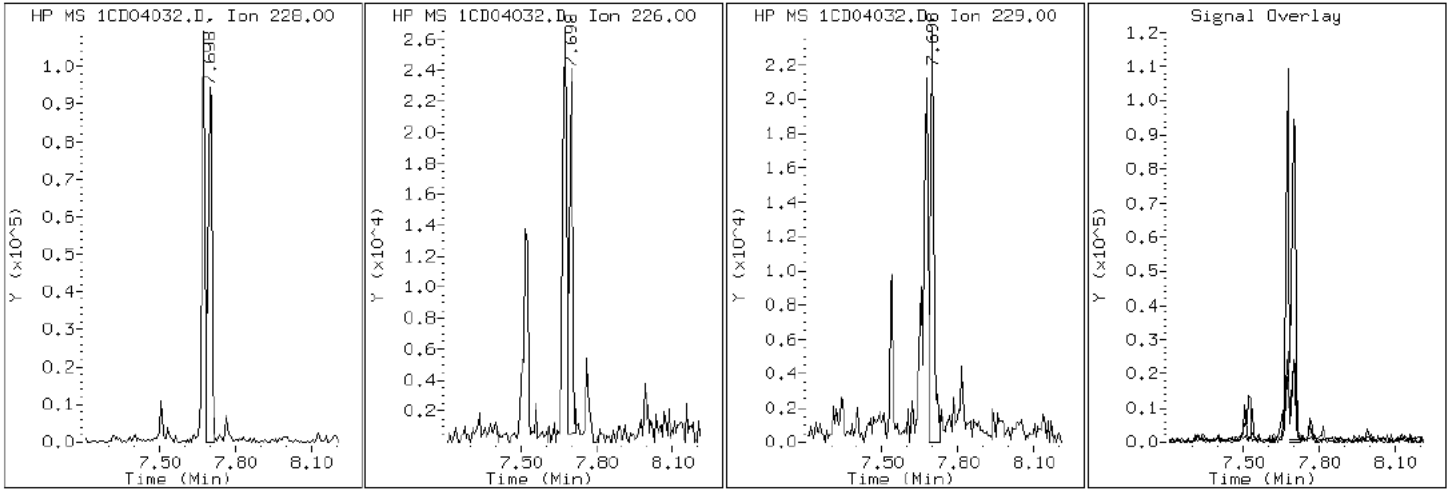
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

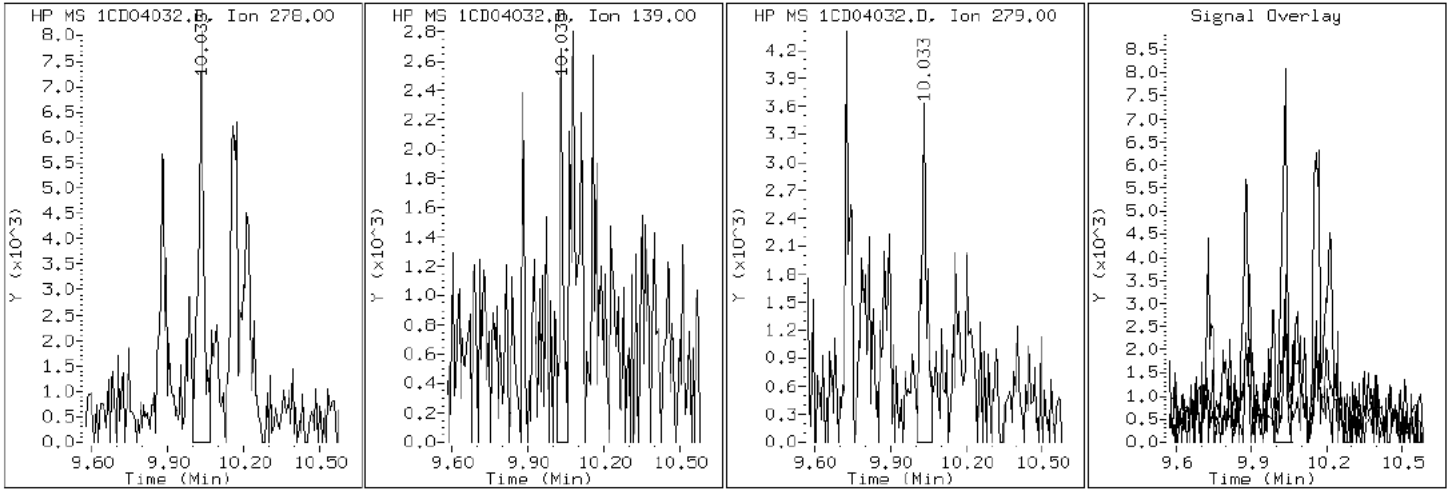
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

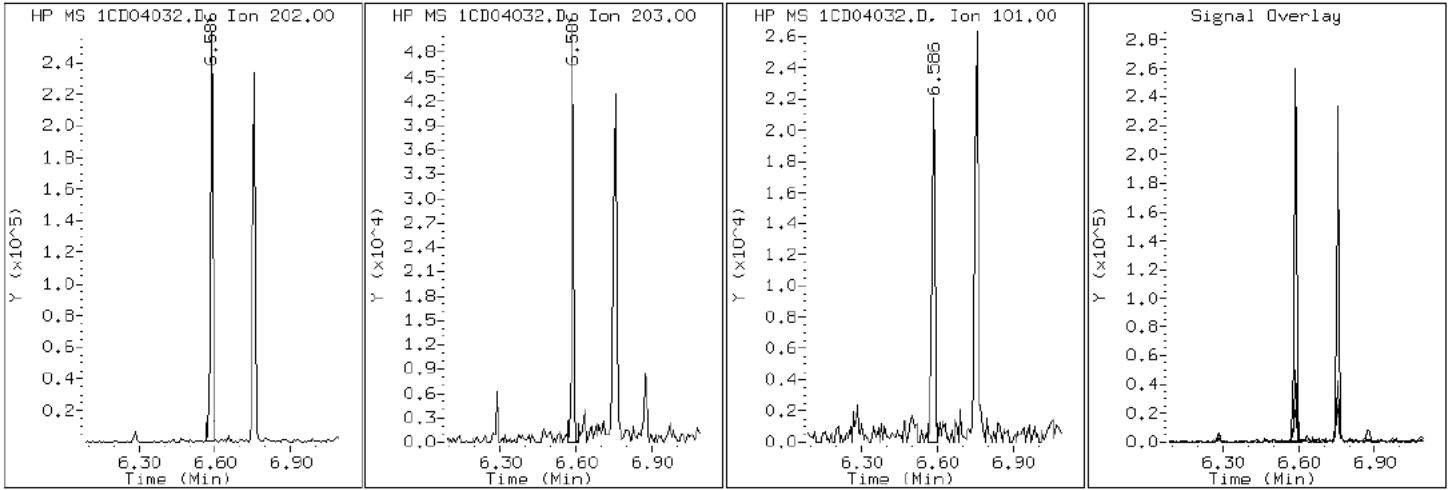
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

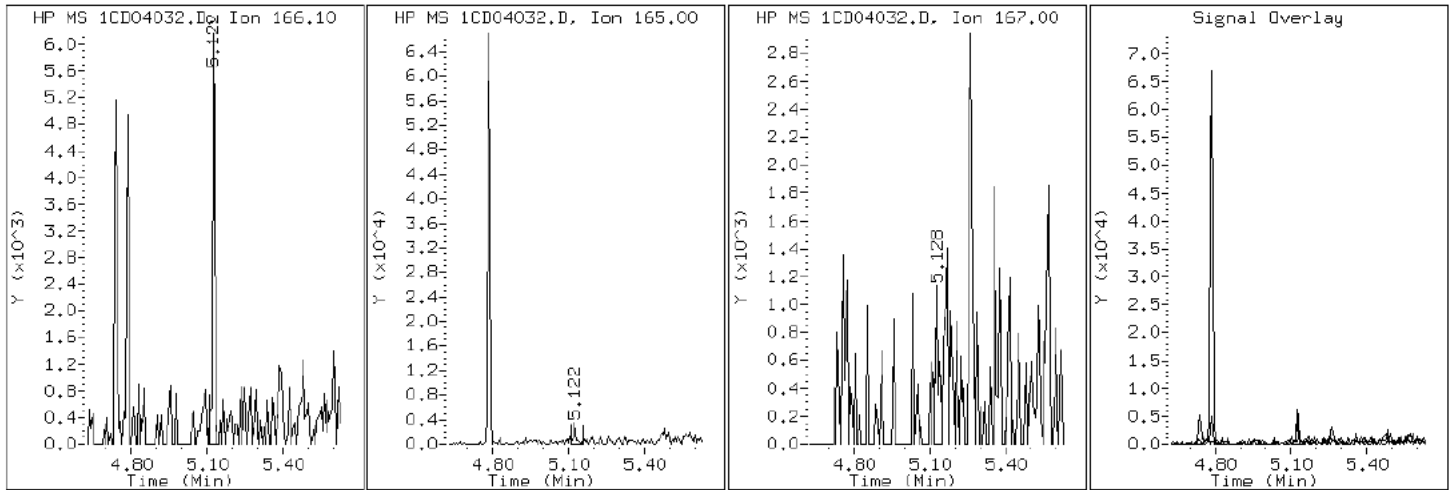
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

9 Fluorene





Data File: 1CD04032.D

Date: 04-APR-2013 20:42

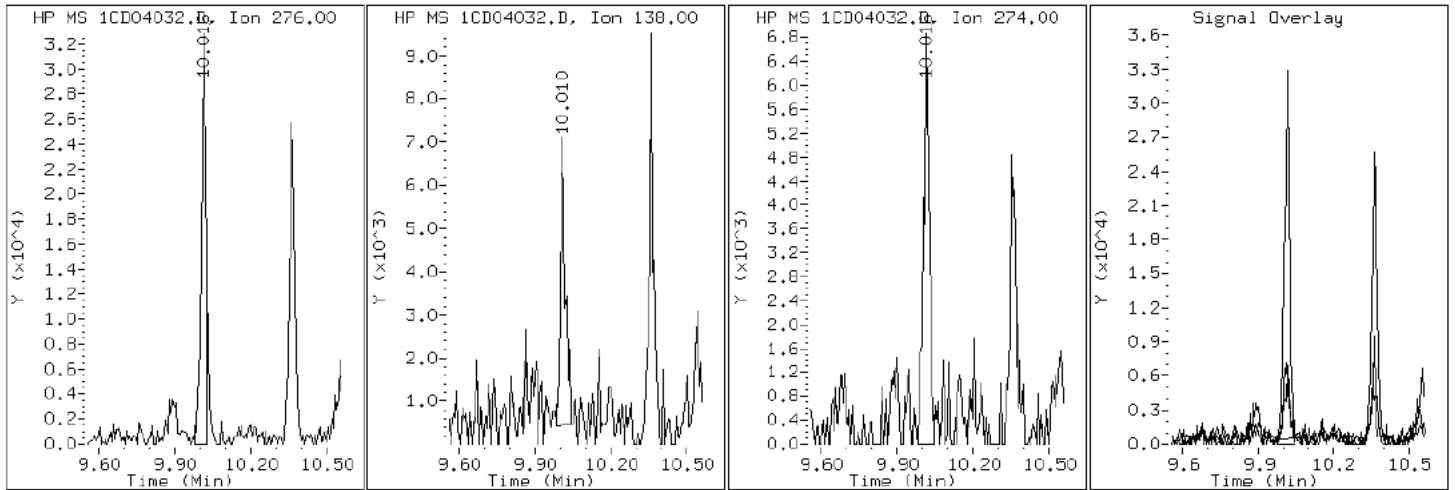
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

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



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

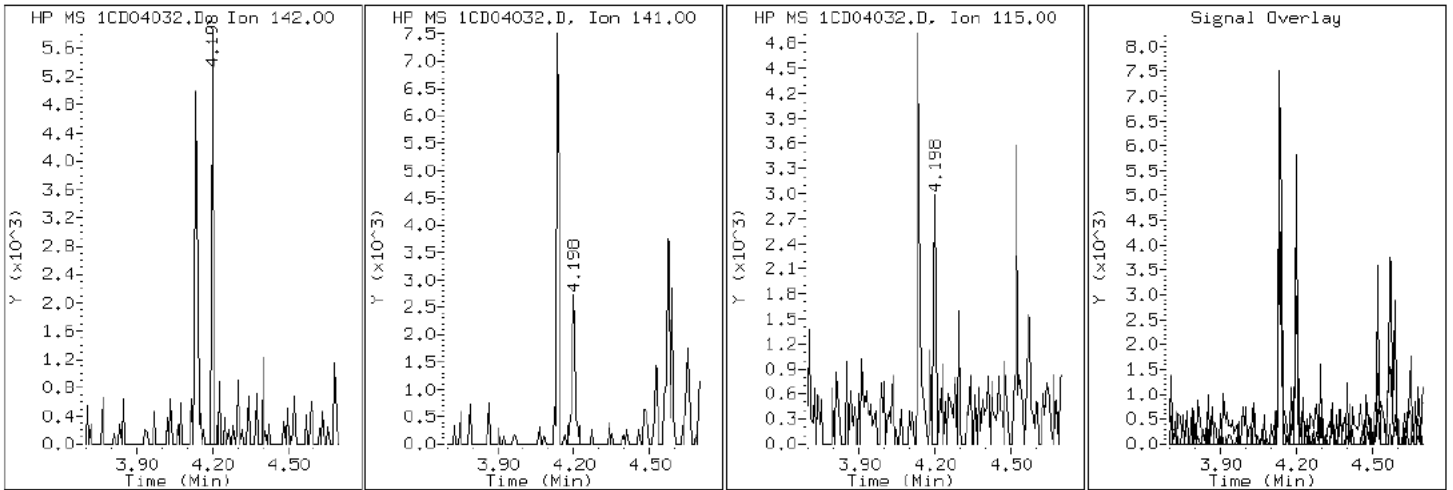
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

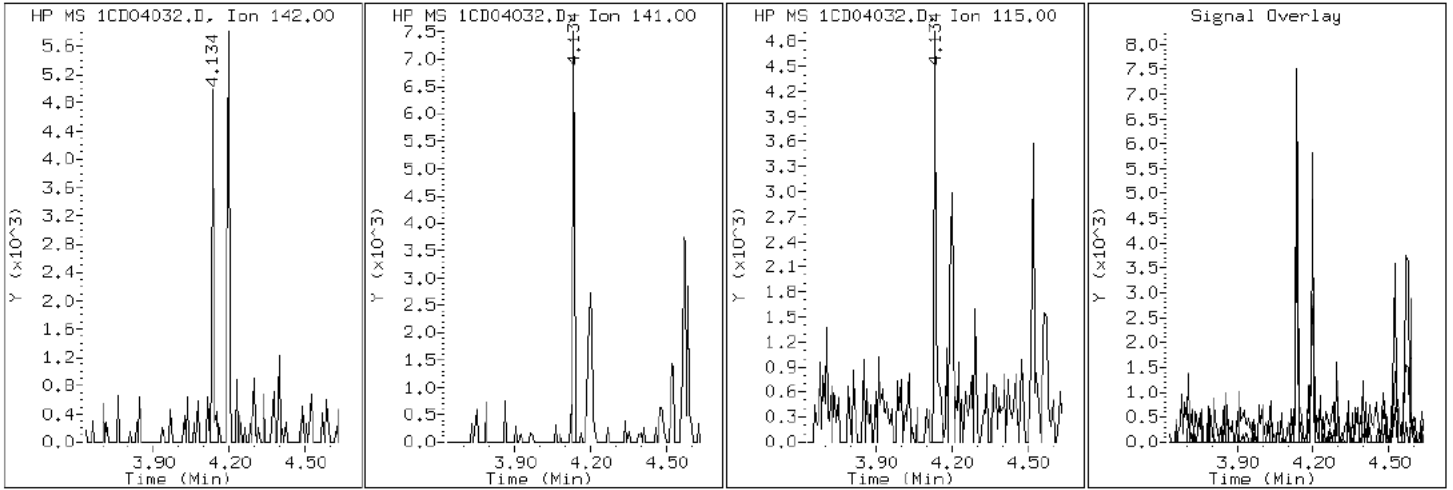
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

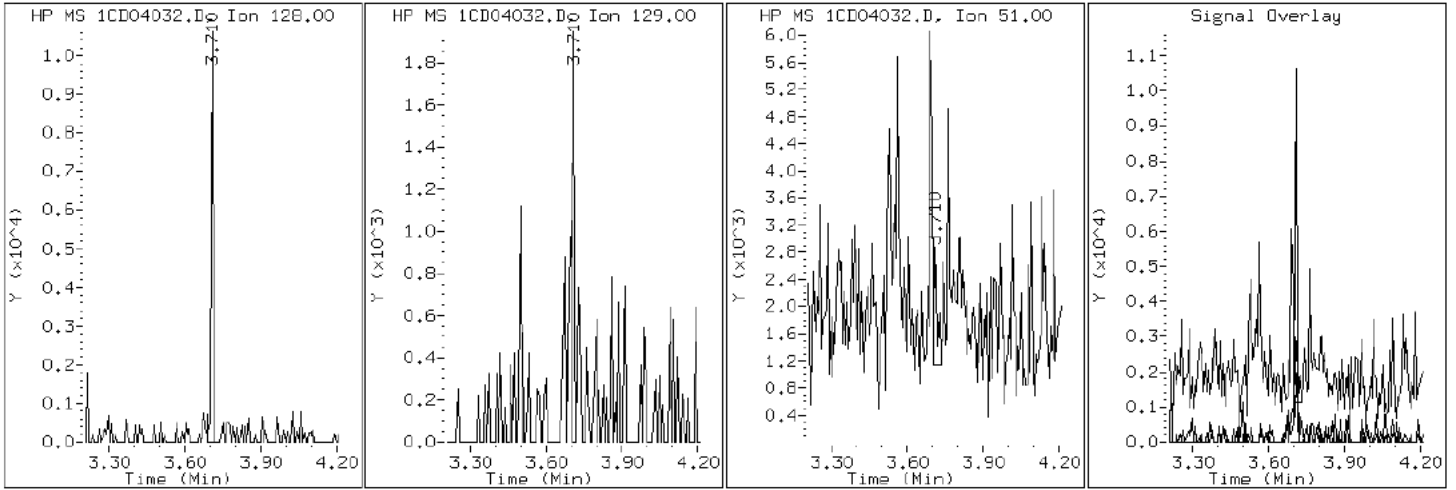
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

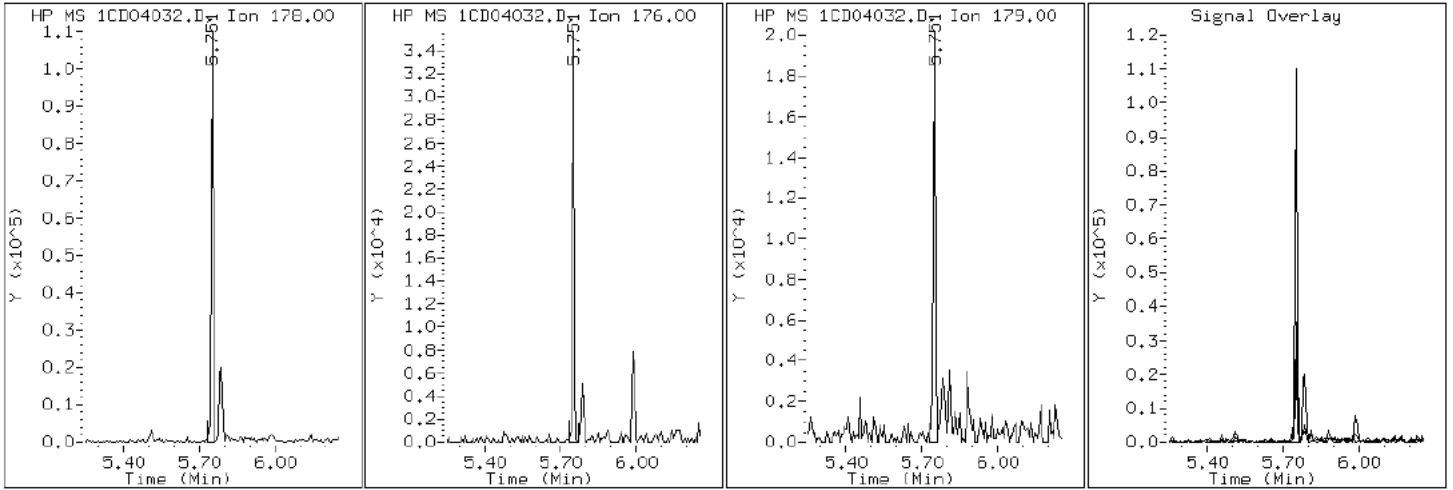
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04032.D

Date: 04-APR-2013 20:42

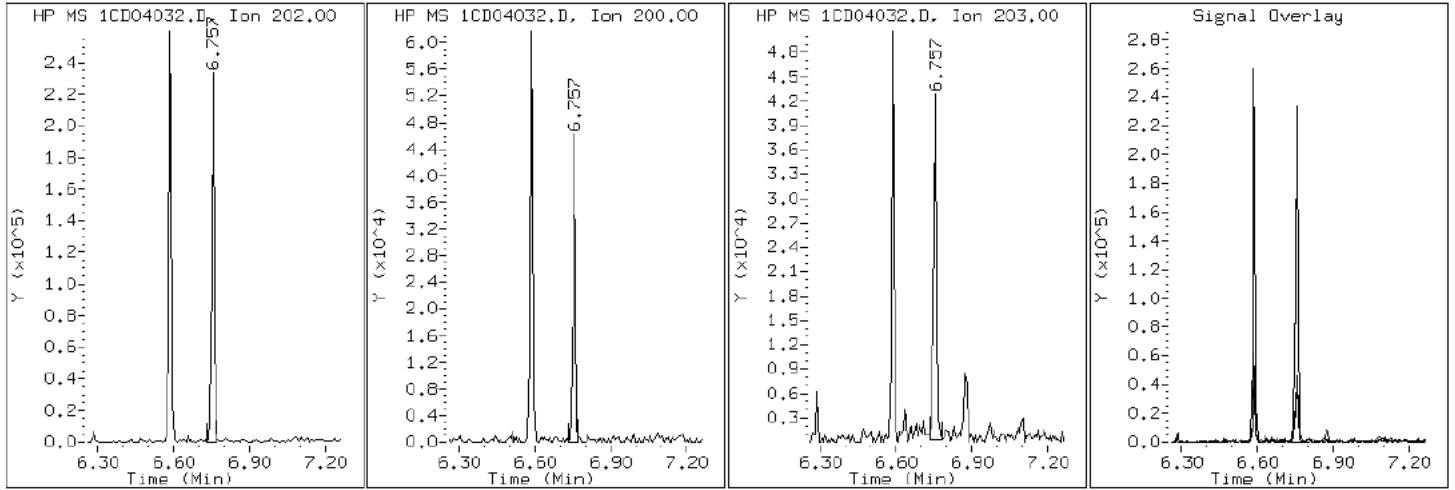
Client ID: CV0509K-CS

Instrument: BSMC5973.i

Sample Info: 680-88767-a-19-a

Operator: SCC

16 Pyrene

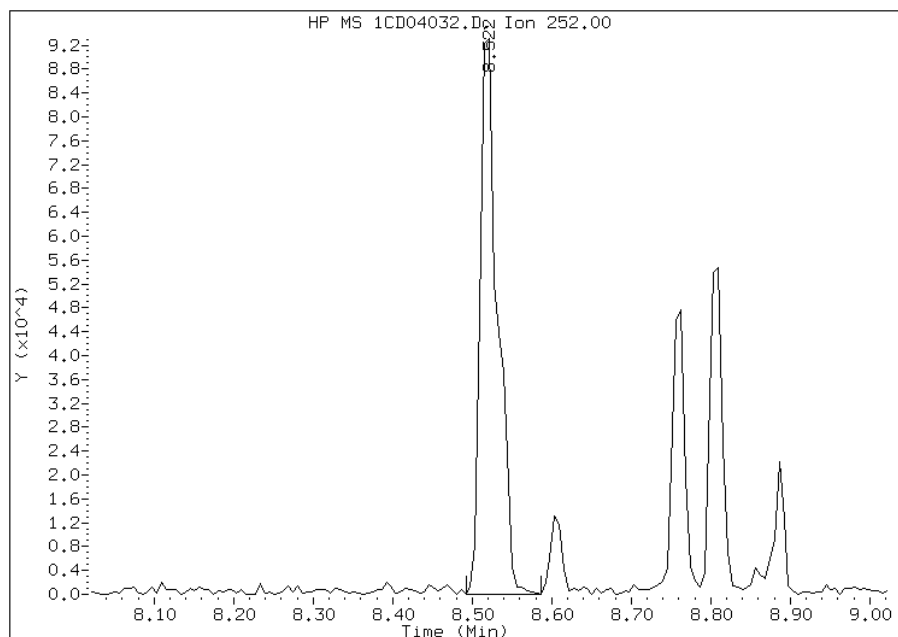


# Manual Integration Report

Data File: 1CD04032.D  
Inj. Date and Time: 04-APR-2013 20:42  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

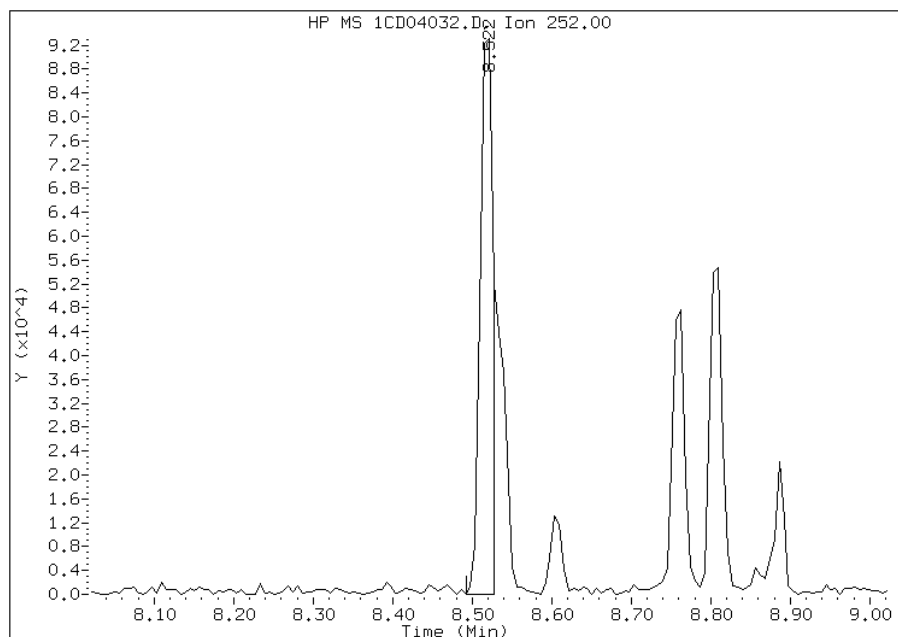
## Processing Integration Results

RT: 8.52  
Response: 141866  
Amount: 6  
Conc: 557



## Manual Integration Results

RT: 8.52  
Response: 103819  
Amount: 4  
Conc: 407



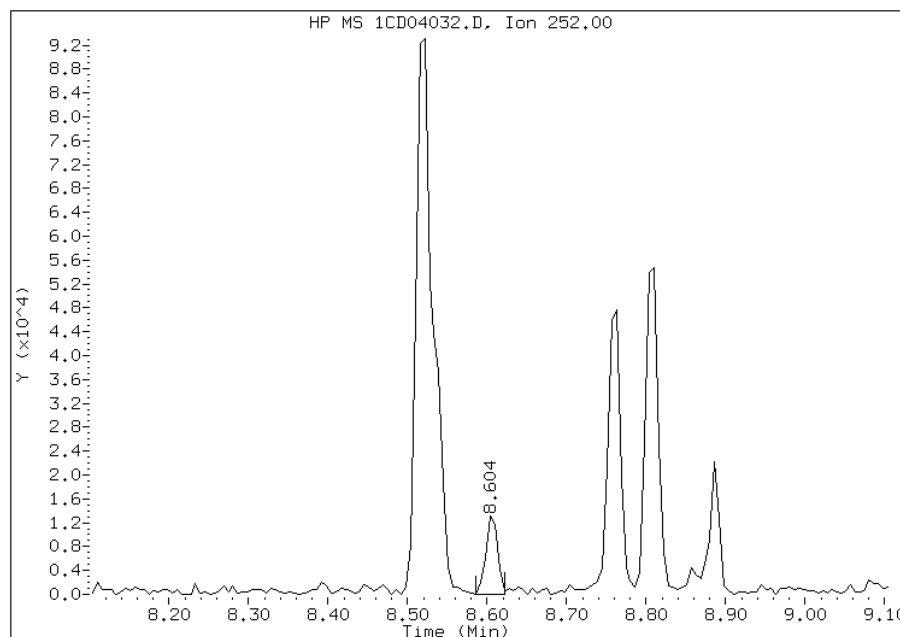
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:55  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD04032.D  
Inj. Date and Time: 04-APR-2013 20:42  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

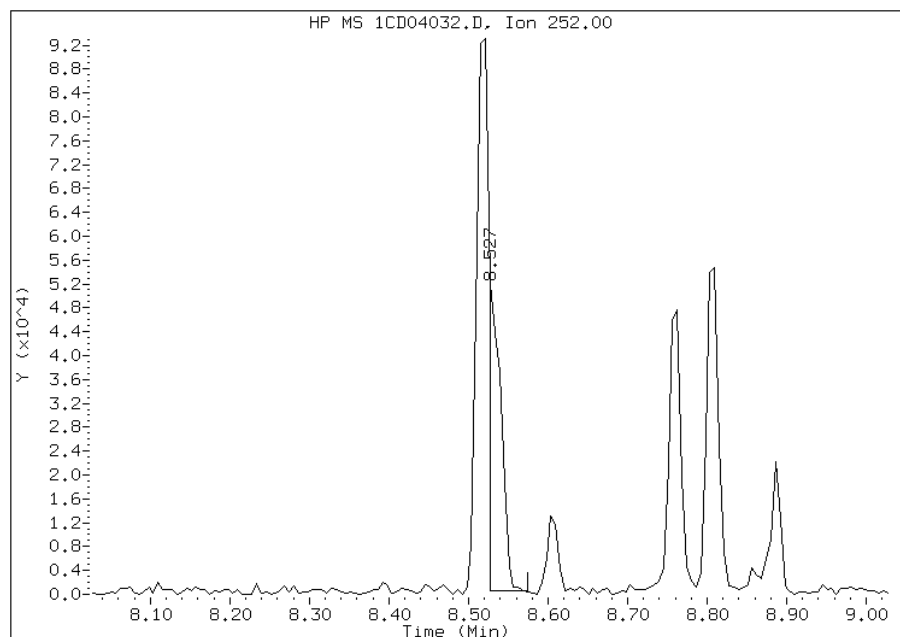
## Processing Integration Results

RT: 8.60  
Response: 13375  
Amount: 1  
Conc: 54



## Manual Integration Results

RT: 8.53  
Response: 54467  
Amount: 2  
Conc: 221



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:55  
Manual Integration Reason: Baseline Event

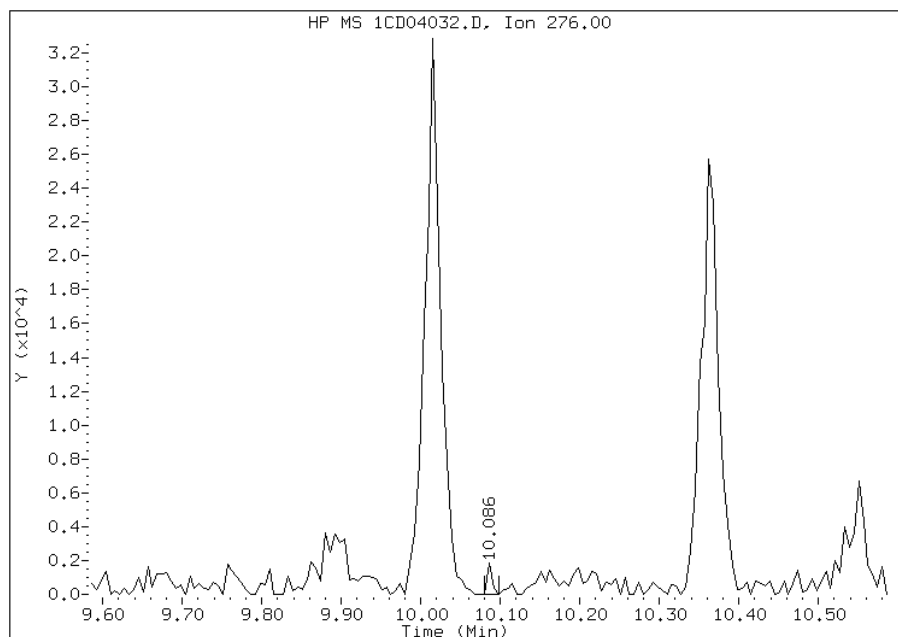


# Manual Integration Report

Data File: 1CD04032.D  
Inj. Date and Time: 04-APR-2013 20:42  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

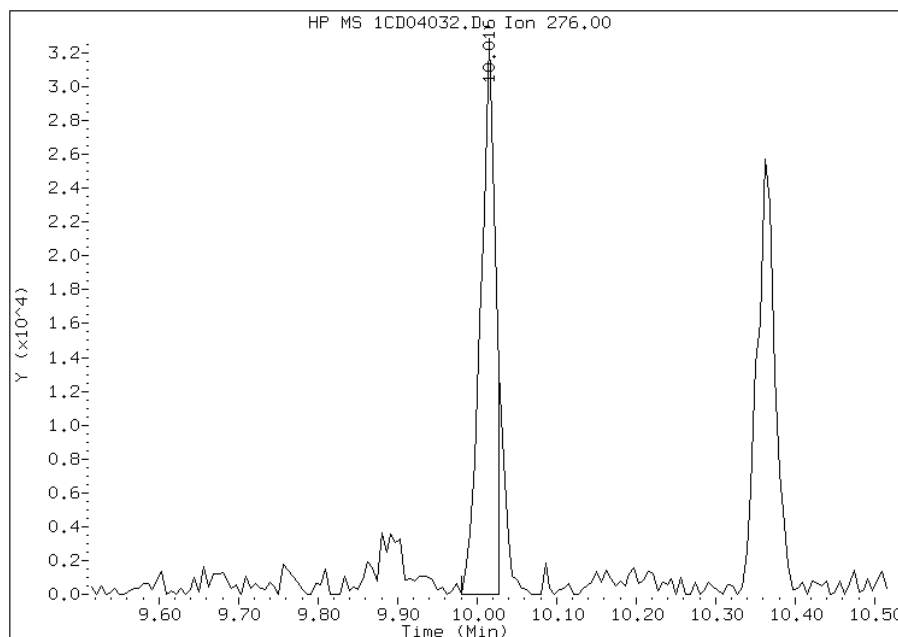
## Processing Integration Results

RT: 10.09  
Response: 756  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 10.02  
Response: 42673  
Amount: 2  
Conc: 187



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:55  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509K-CSD Lab Sample ID: 680-88767-20  
 Matrix: Solid Lab File ID: 1CD04033.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 10:20  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.10(g) Date Analyzed: 04/04/2013 21:00  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 30.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	68	J	140	28
208-96-8	Acenaphthylene	13	J	57	7.1
120-12-7	Anthracene	120		12	6.0
56-55-3	Benzo[a]anthracene	340		11	5.5
50-32-8	Benzo[a]pyrene	250		15	7.4
205-99-2	Benzo[b]fluoranthene	380		17	8.7
191-24-2	Benzo[g,h,i]perylene	170		28	6.3
207-08-9	Benzo[k]fluoranthene	200		11	5.1
218-01-9	Chrysene	300		13	6.4
53-70-3	Dibenz(a,h)anthracene	51		28	5.8
206-44-0	Fluoranthene	790		28	5.7
86-73-7	Fluorene	64		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	160		28	10
90-12-0	1-Methylnaphthalene	36	J	57	6.3
91-57-6	2-Methylnaphthalene	37	J	57	10
91-20-3	Naphthalene	56	J	57	6.3
85-01-8	Phenanthrene	570		11	5.5
129-00-0	Pyrene	590		28	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	69		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04033.D  
 Lab Smp Id: 680-88767-A-20-A Client Smp ID: CV0509K-CSD  
 Inj Date : 04-APR-2013 21:00  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-20-a  
 Misc Info : 680-88767-A-20-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 33  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	30.153	% 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)	482602	40.0000	
* 6 Acenaphthene-d10	164		4.780	4.786	(1.000)	367184	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	762581	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	77476	6.94977	658.9370
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	888262	40.0000	
* 23 Perylene-d12	264		8.862	8.886	(1.000)	832587	40.0000	
2 Naphthalene	128		3.710	3.710	(1.005)	7382	0.59554	56.4653(Q)
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	3305	0.39169	37.1375(Q)
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	2884	0.37985	36.0154
5 Acenaphthylene	152		4.698	4.698	(0.983)	2017	0.13272	12.5842
7 Acenaphthene	154		4.804	4.804	(1.005)	6761	0.71830	68.1054
9 Fluorene	166		5.122	5.127	(1.071)	8437	0.67239	63.7523
11 Phenanthrene	178		5.751	5.751	(1.003)	133862	6.02713	571.4574
12 Anthracene	178		5.786	5.786	(1.009)	27323	1.21358	115.0648

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898	(1.028)	15899	0.82425	78.1506
15 Fluoranthene	202	6.586	6.592	(1.149)	204080	8.32027	788.8796
16 Pyrene	202	6.757	6.763	(0.880)	153795	6.25042	592.6285
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	89033	3.59492	340.8497
19 Chrysene	228	7.698	7.710	(1.002)	80910	3.19656	303.0791
20 Benzo(b)fluoranthene	252	8.515	8.533	(0.961)	94232	4.00341	379.5799(M)
21 Benzo(k)fluoranthene	252	8.527	8.557	(0.962)	47254	2.07569	196.8049(M)
22 Benzo(a)pyrene	252	8.804	8.827	(0.993)	58961	2.66064	252.2667
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.056	(1.130)	34906	1.65838	157.2383(M)
25 Dibenzo(a,h)anthracene	278	10.027	10.074	(1.131)	10468	0.53838	51.0459(H)
26 Benzo(g,h,i)perylene	276	10.362	10.415	(1.169)	39106	1.82039	172.5988(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: 1CD04033.D

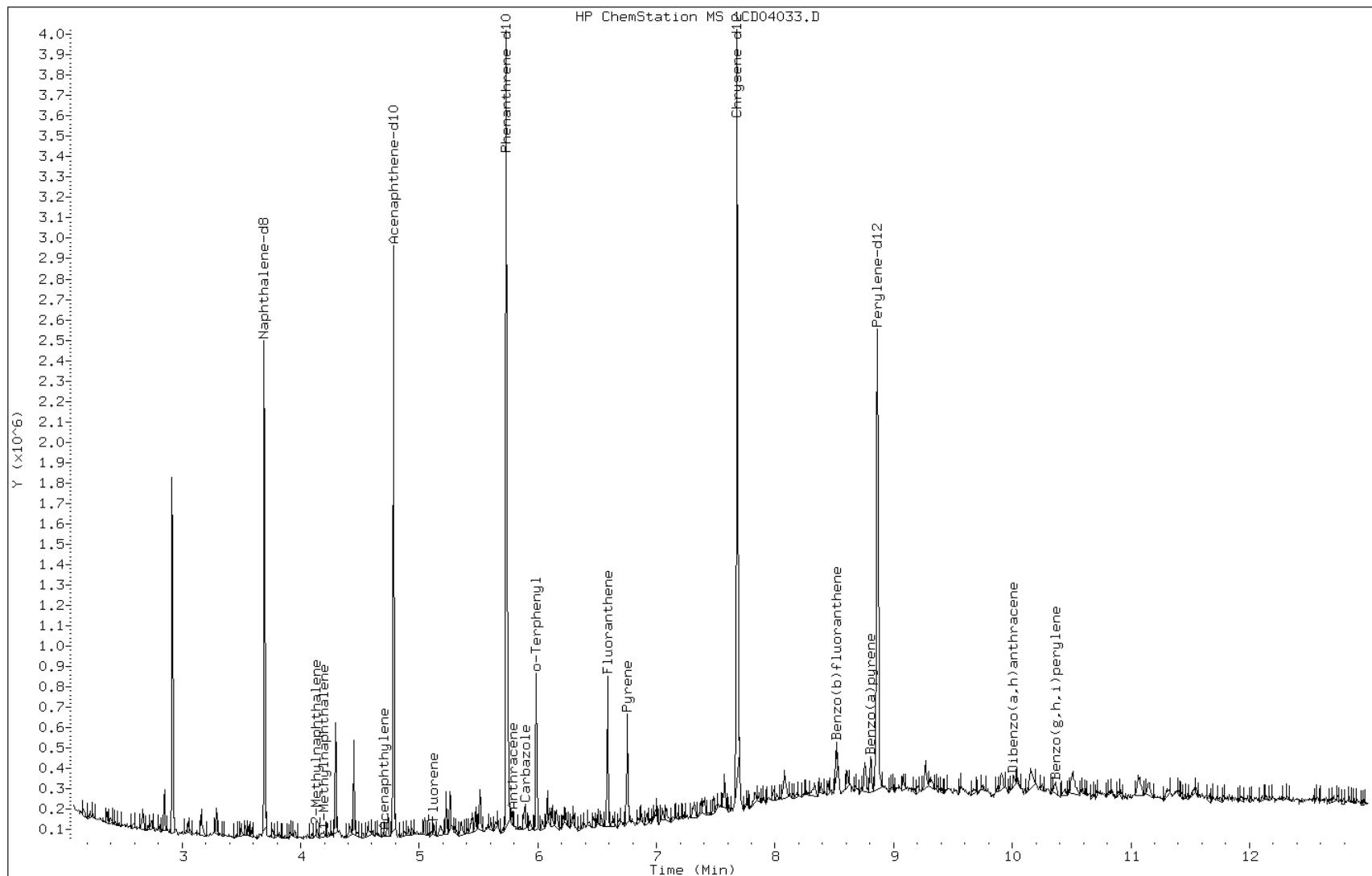
Date: 04-APR-2013 21:00

Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

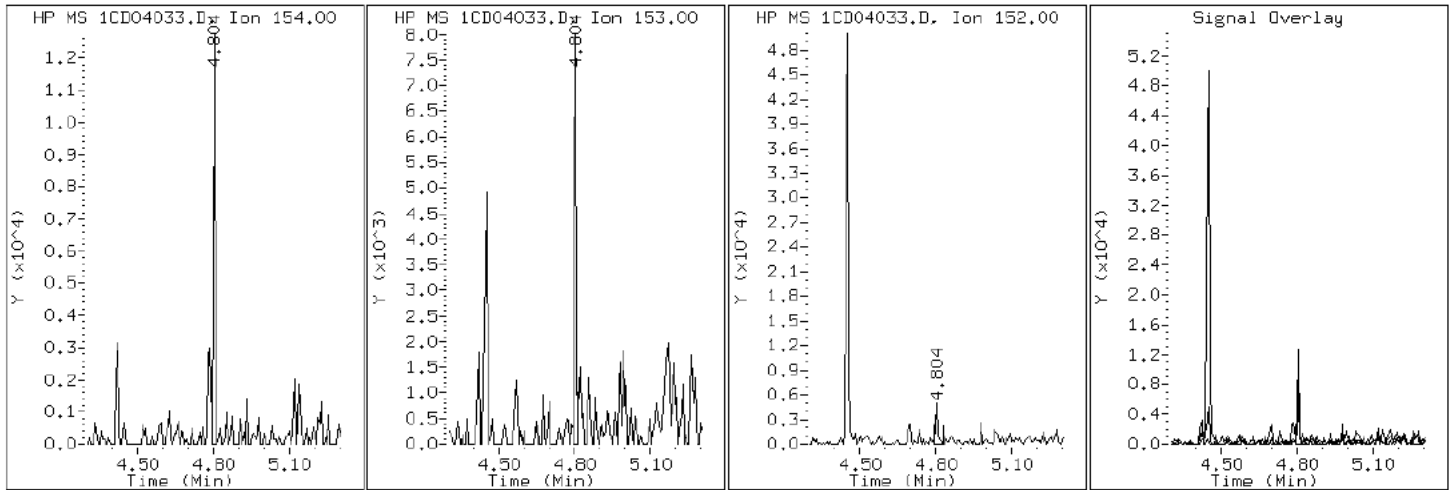
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

7 Acenaphthene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

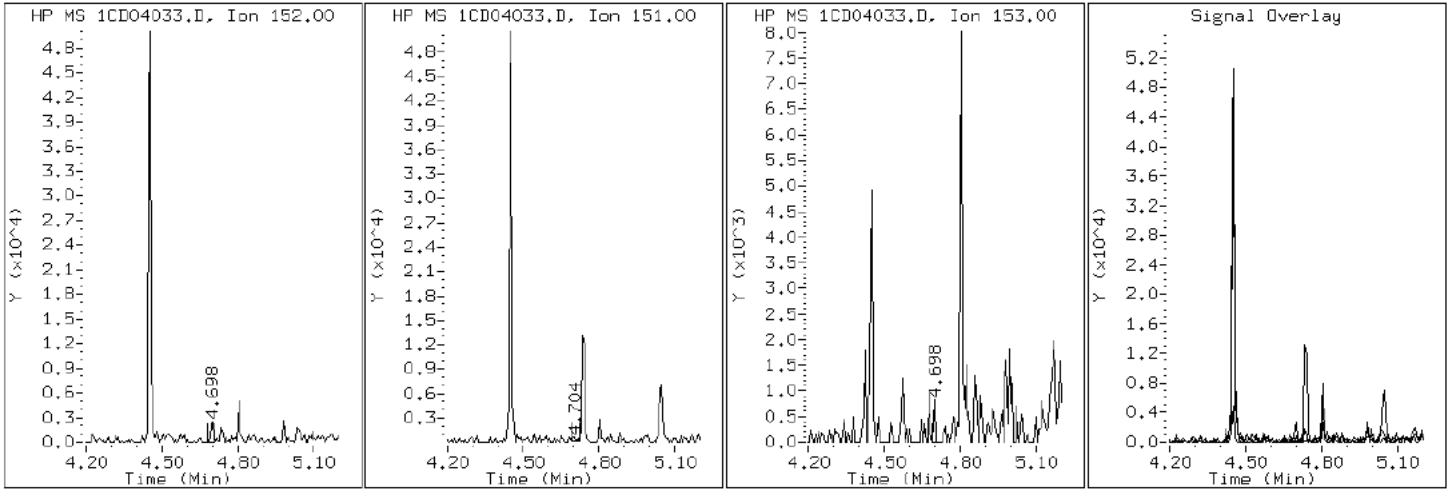
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

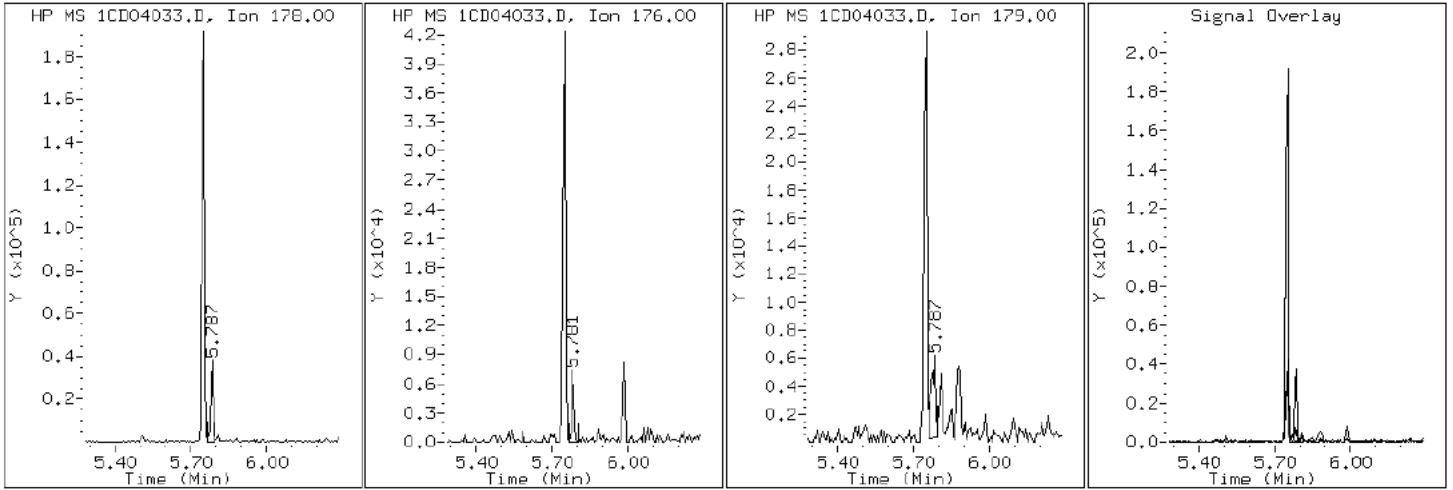
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

12 Anthracene





Data File: 1CD04033.D

Date: 04-APR-2013 21:00

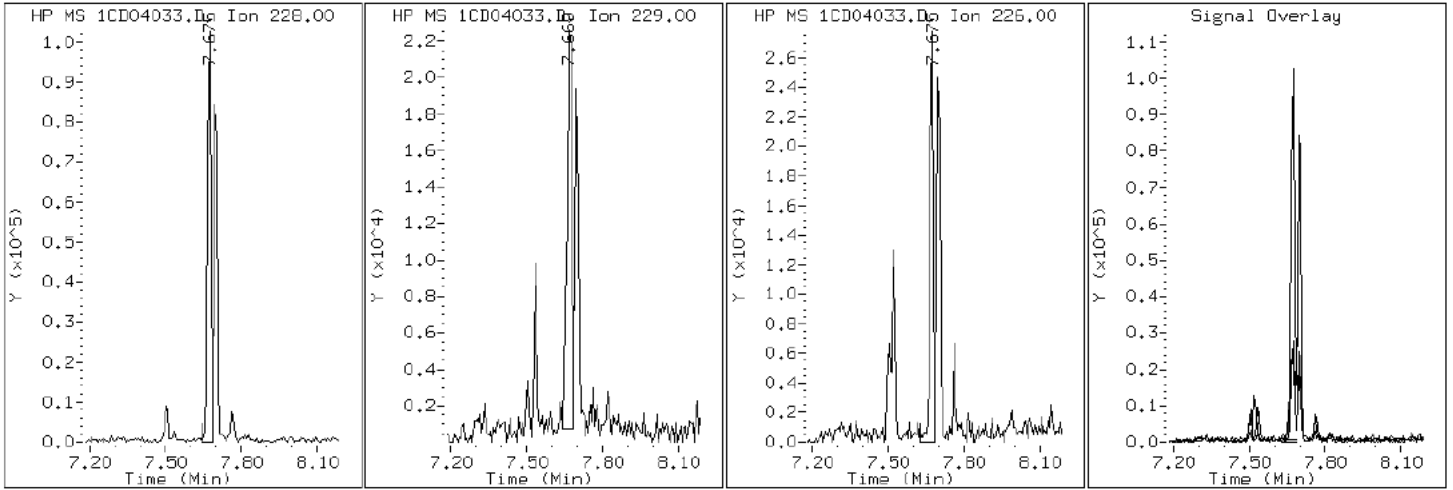
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

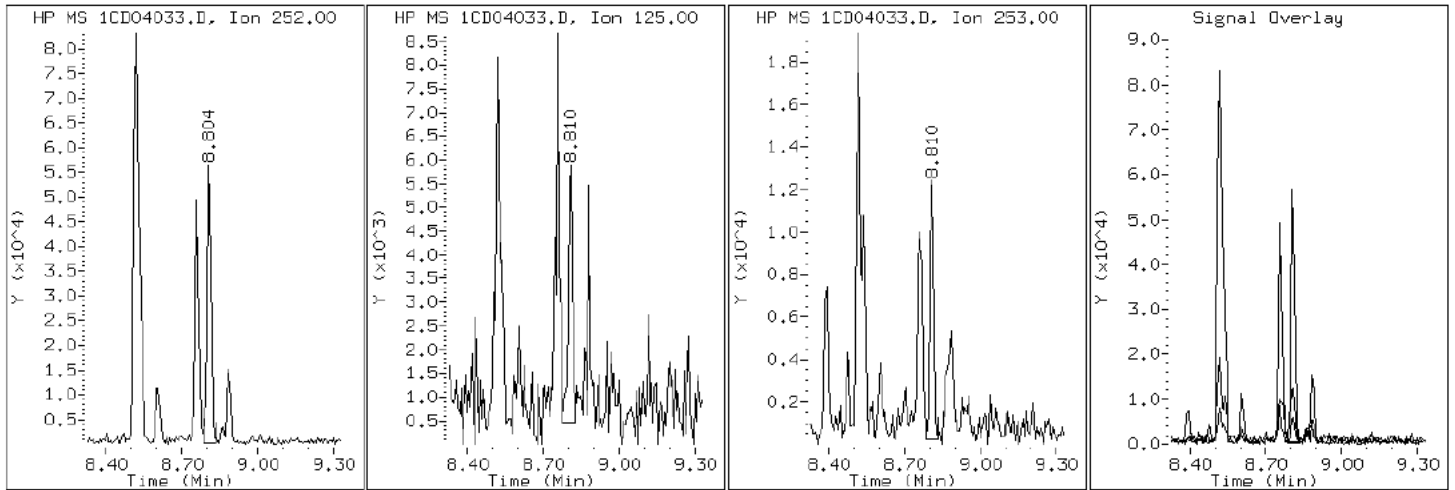
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

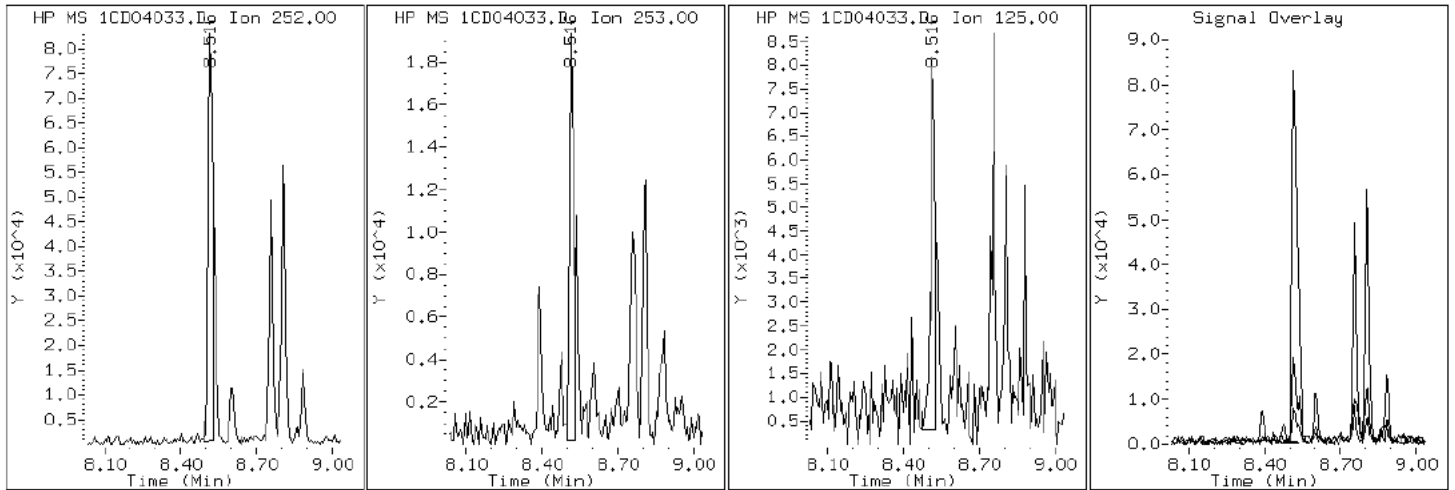
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

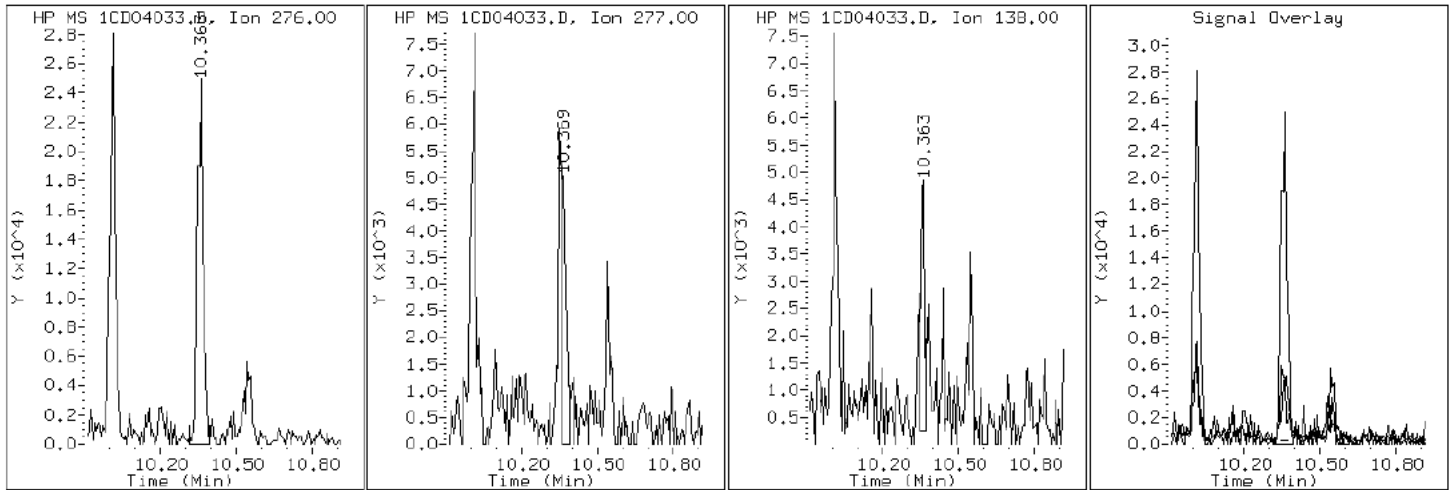
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

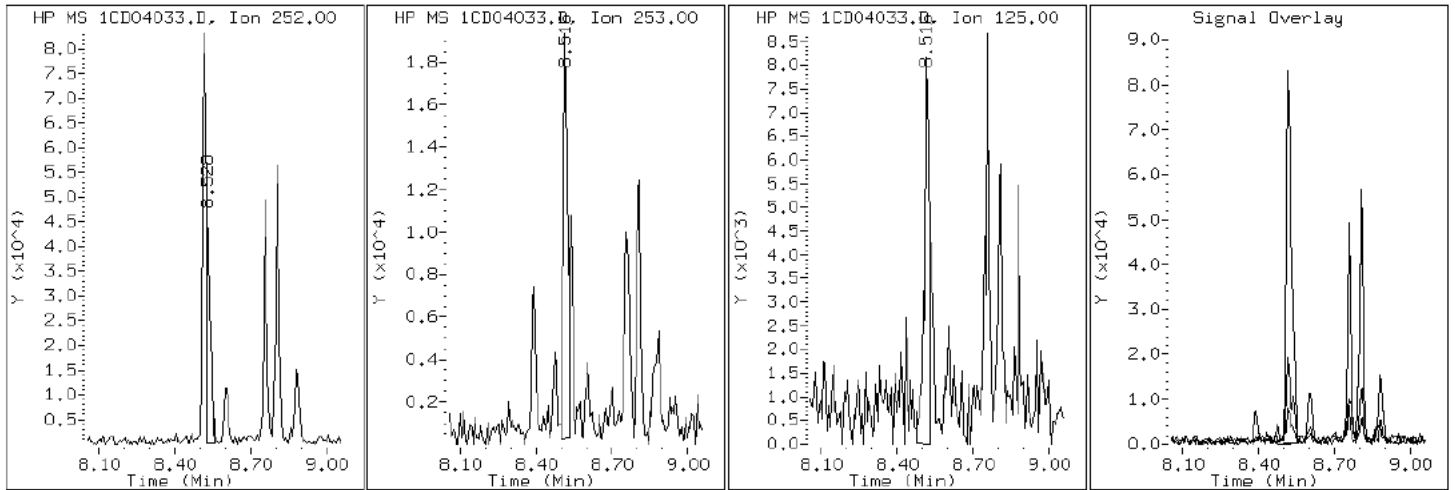
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

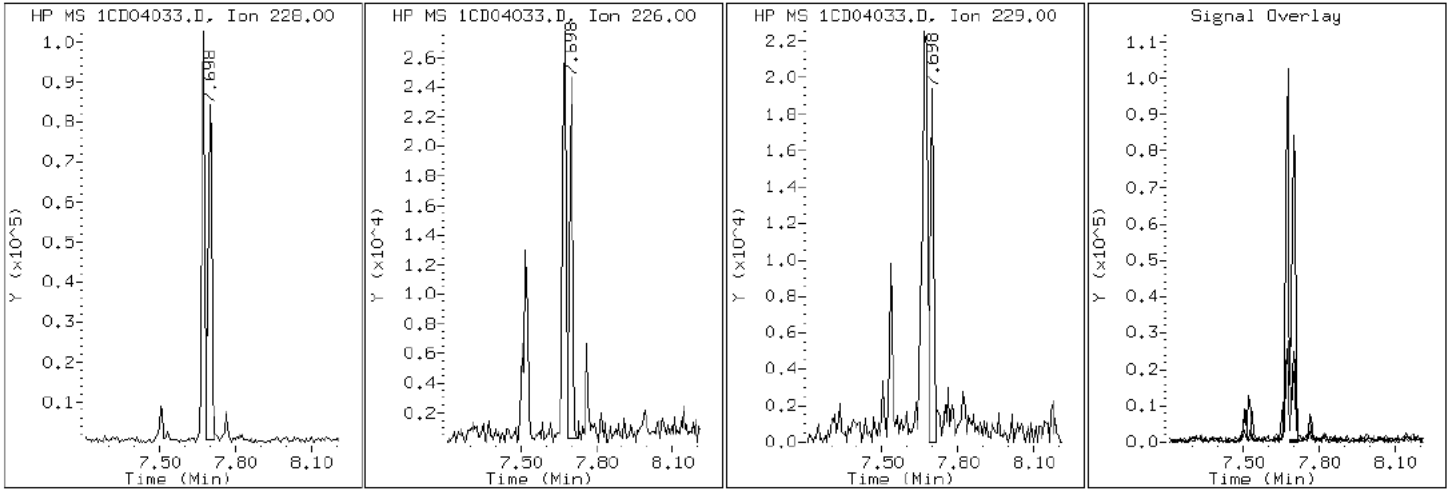
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

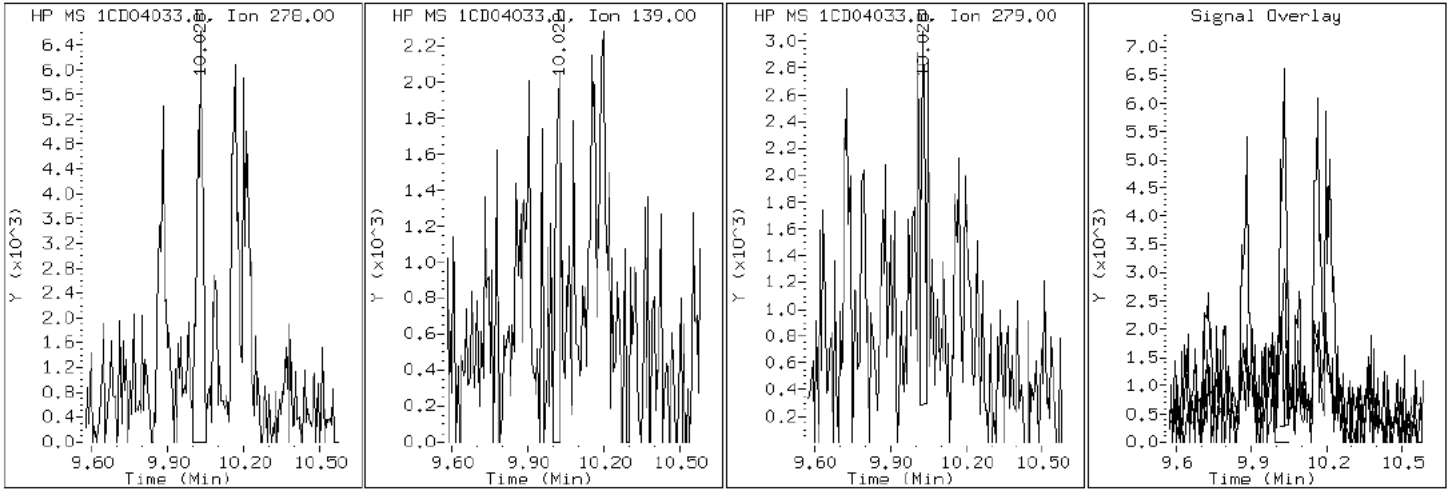
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

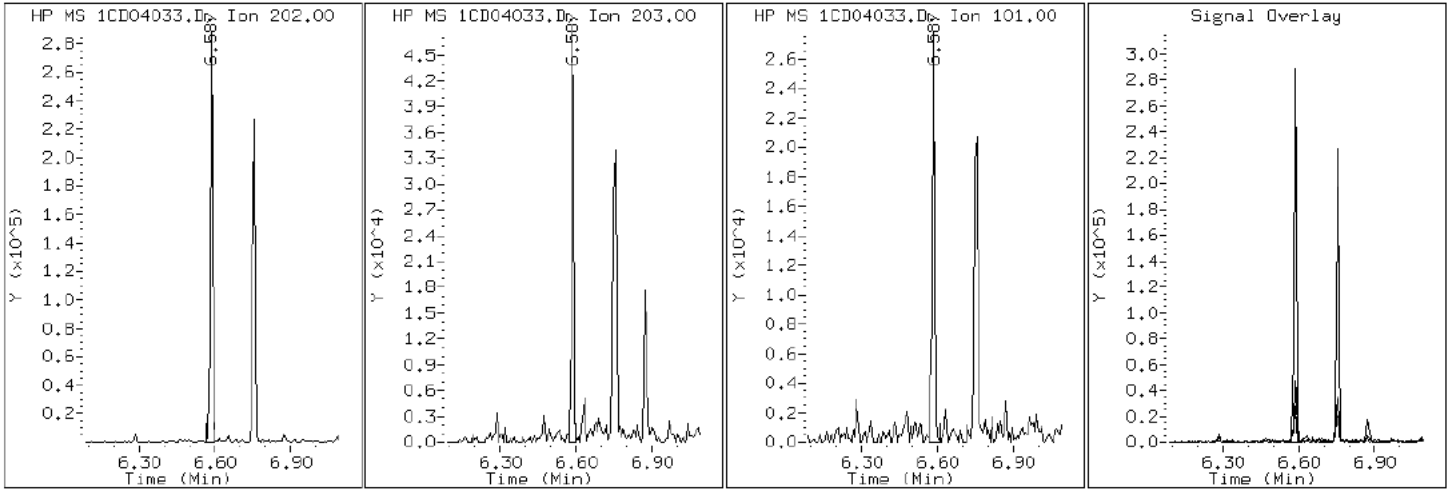
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

15 Fluoranthene





Data File: 1CD04033.D

Date: 04-APR-2013 21:00

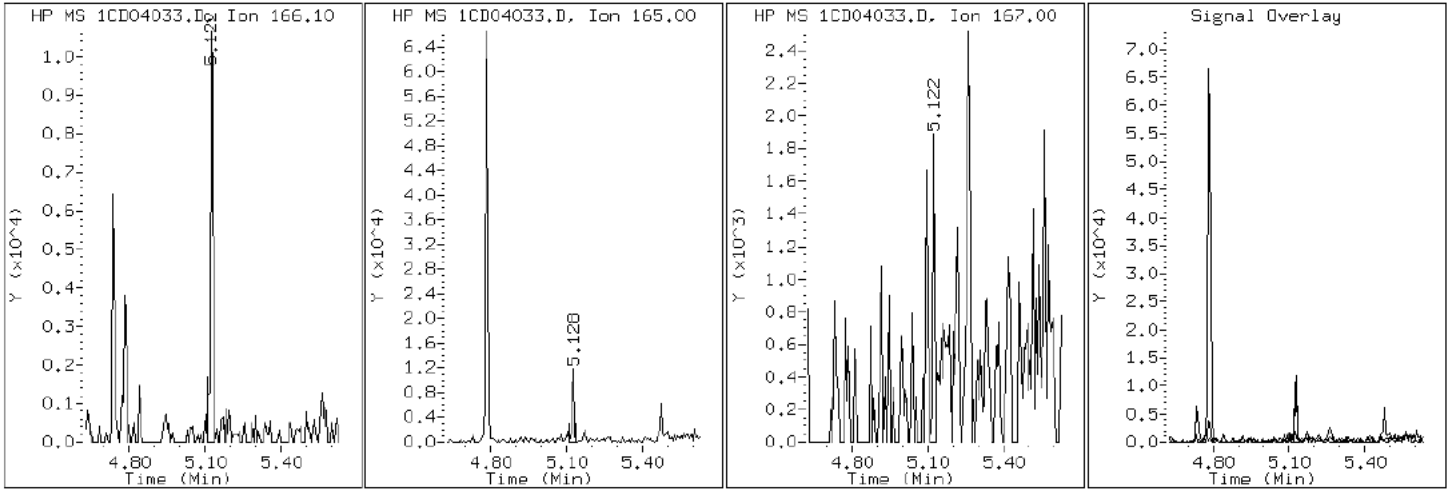
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

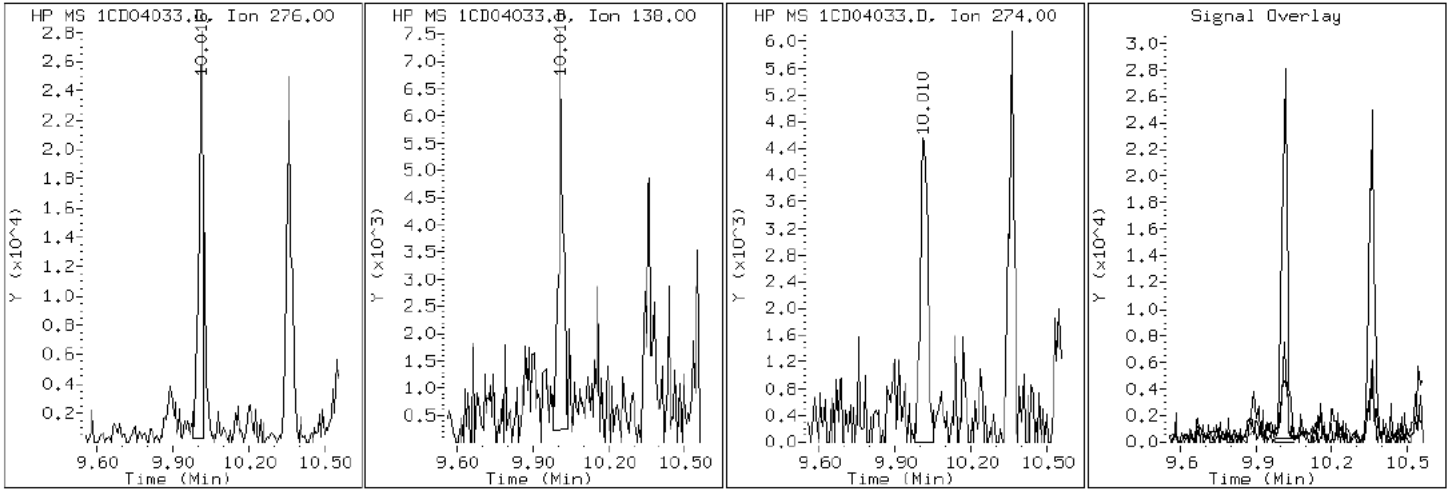
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

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



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

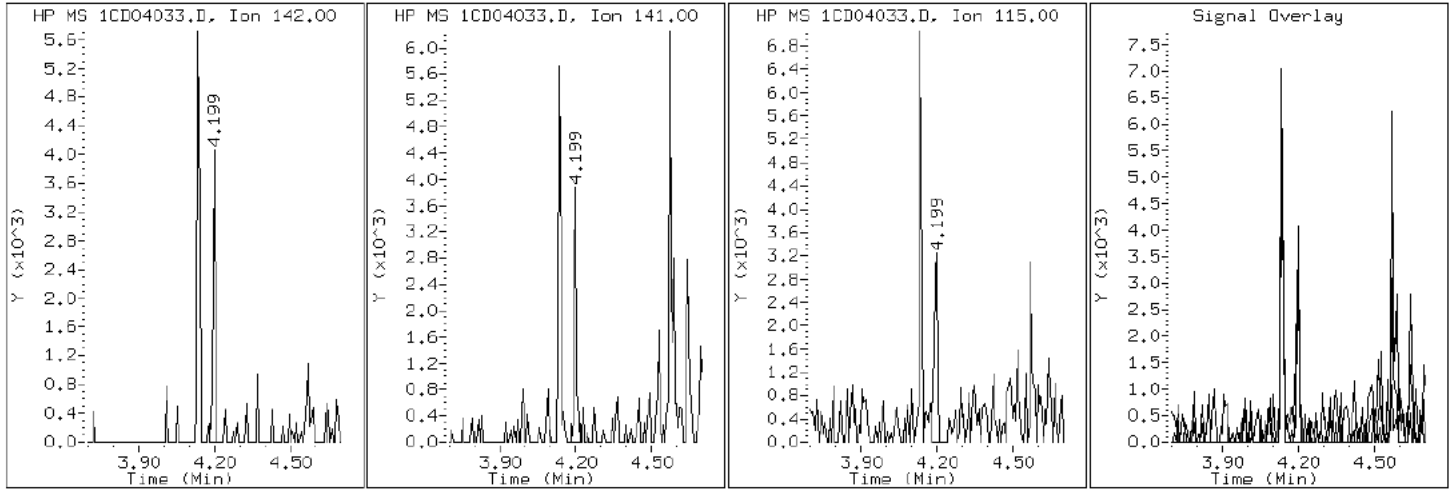
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

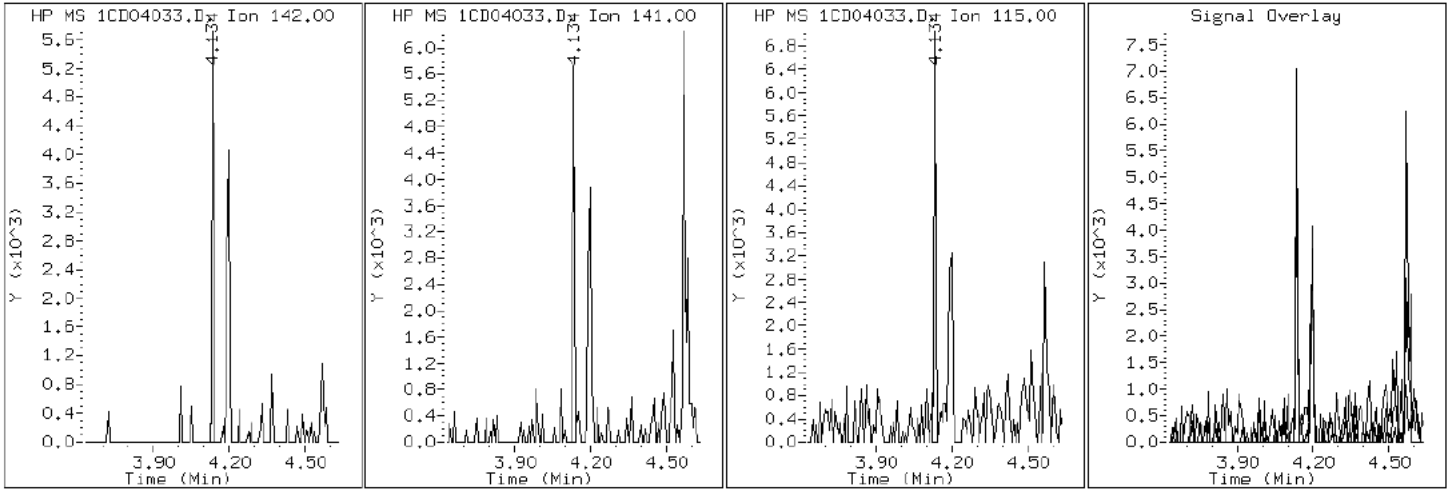
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

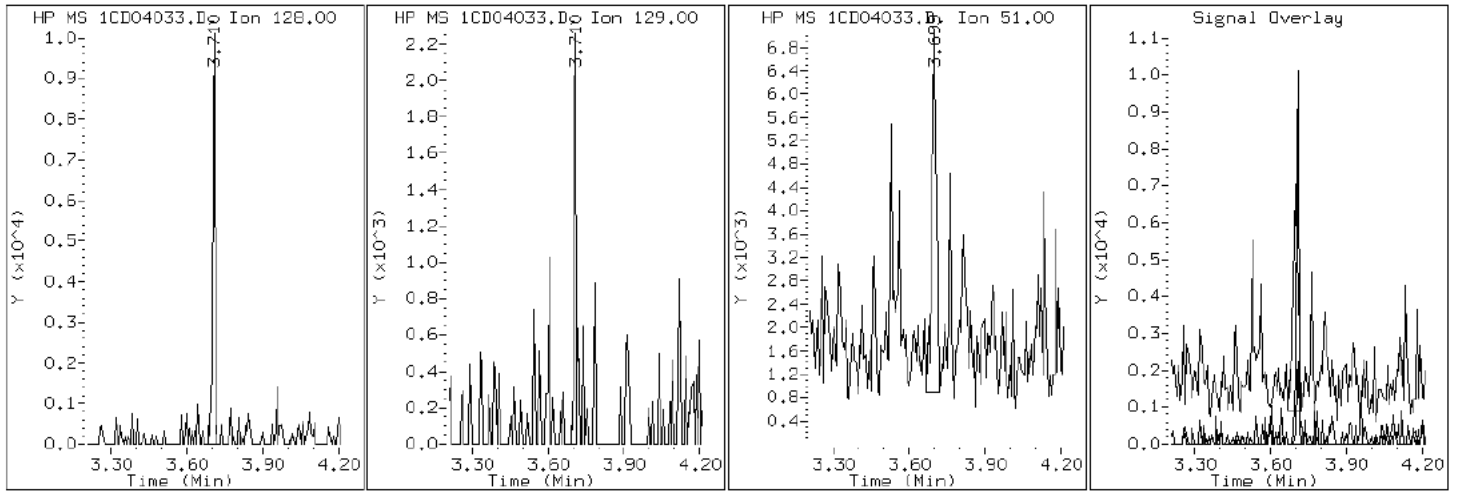
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

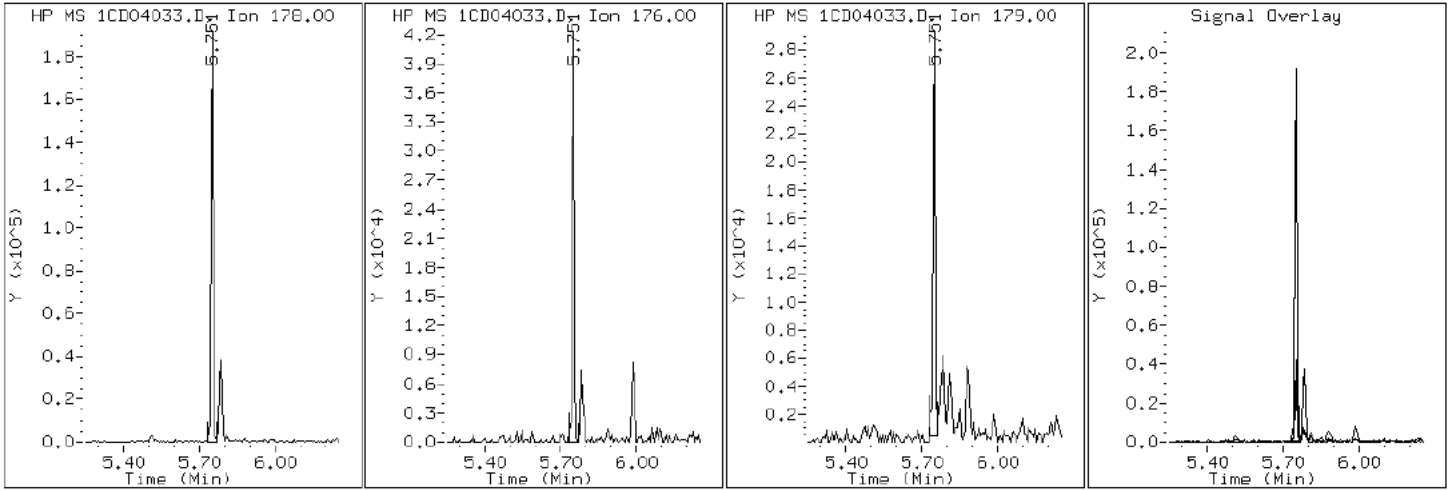
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CD04033.D

Date: 04-APR-2013 21:00

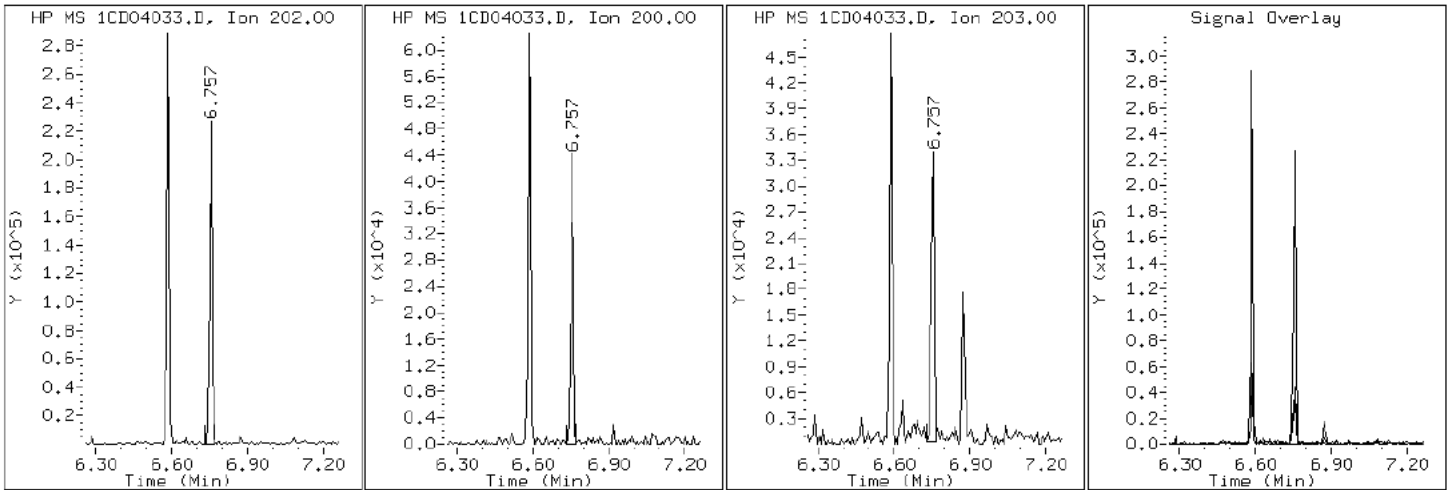
Client ID: CV0509K-CSD

Instrument: BSMC5973.i

Sample Info: 680-88767-a-20-a

Operator: SCC

16 Pyrene

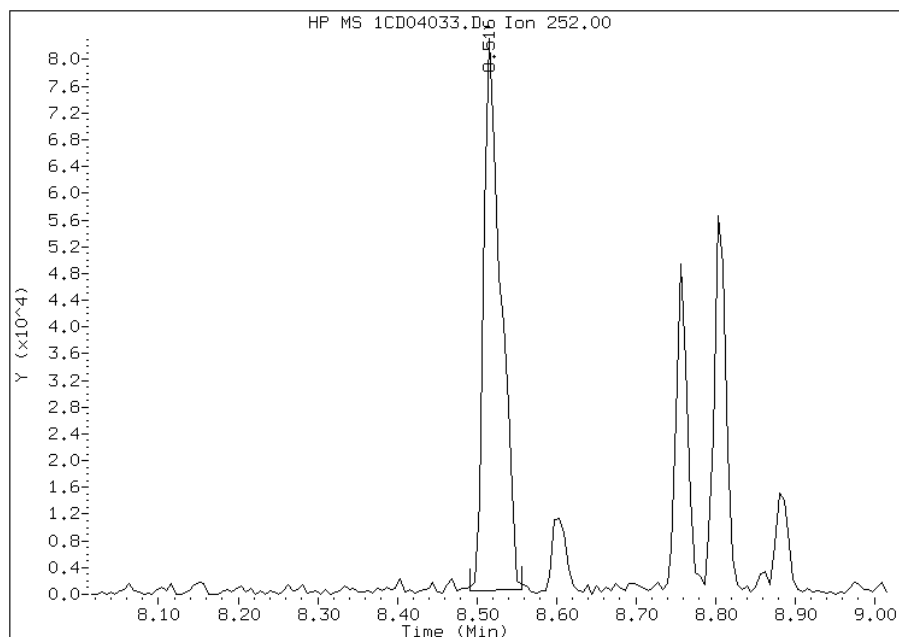


# Manual Integration Report

Data File: 1CD04033.D  
Inj. Date and Time: 04-APR-2013 21:00  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CSD  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/05/2013

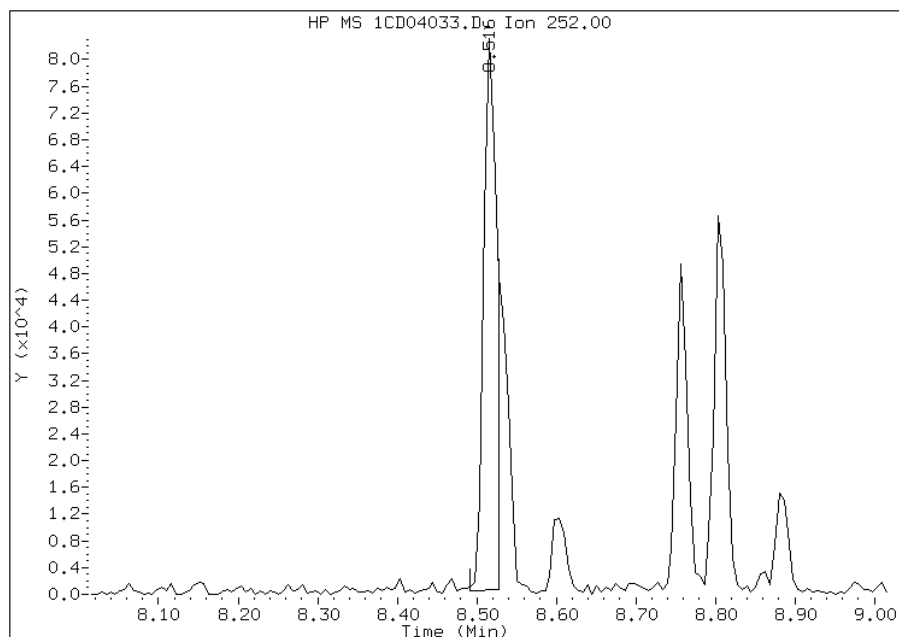
## Processing Integration Results

RT: 8.52  
Response: 124115  
Amount: 5  
Conc: 500



## Manual Integration Results

RT: 8.52  
Response: 94232  
Amount: 4  
Conc: 380



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 15:03  
Manual Integration Reason: Split Peak

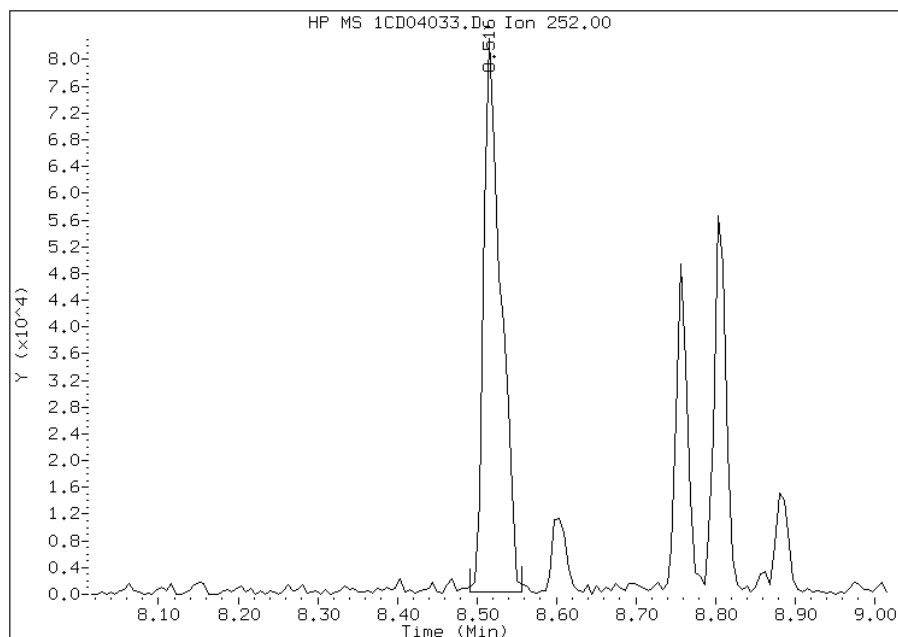


# Manual Integration Report

Data File: 1CD04033.D  
Inj. Date and Time: 04-APR-2013 21:00  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CSD  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/05/2013

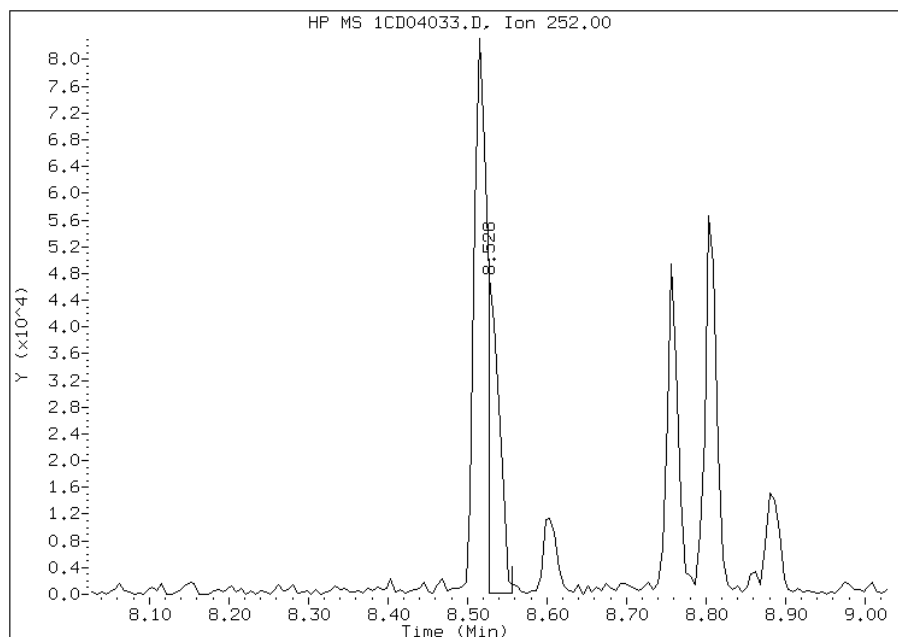
## Processing Integration Results

RT: 8.52  
Response: 125146  
Amount: 5  
Conc: 521



## Manual Integration Results

RT: 8.53  
Response: 47254  
Amount: 2  
Conc: 197



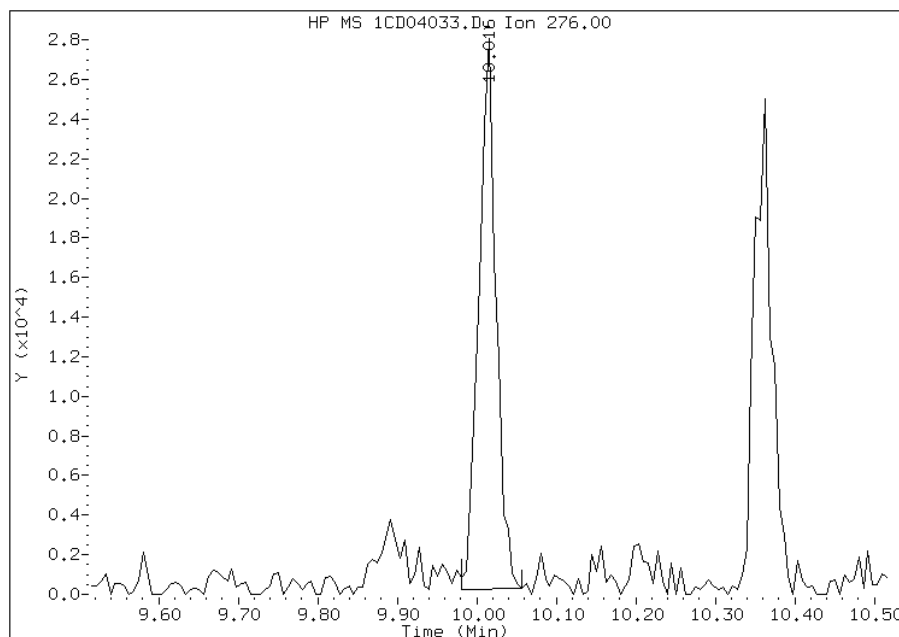
Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 15:03  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD04033.D  
Inj. Date and Time: 04-APR-2013 21:00  
Instrument ID: BSMC5973.i  
Client ID: CV0509K-CSD  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

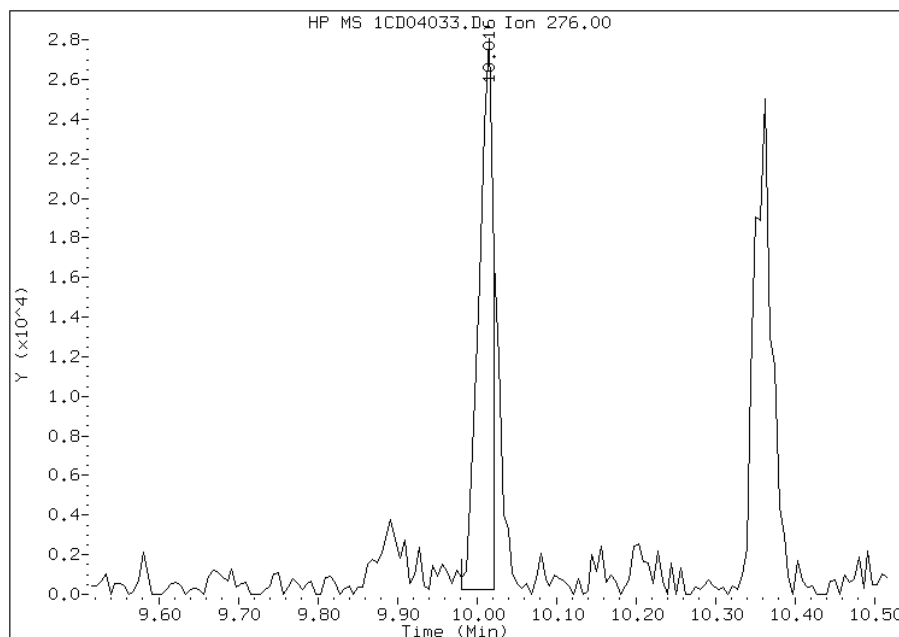
## Processing Integration Results

RT: 10.02  
Response: 41743  
Amount: 2  
Conc: 188



## Manual Integration Results

RT: 10.02  
Response: 34906  
Amount: 2  
Conc: 157



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 15:03  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88767-1 Analy Batch No.: 136048

SDG No.: 68088767-1

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 <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	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.: 680-88767-1 Analy Batch No.: 136048

SDG No.: 68088767-1

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.: 680-88767-1 Analy B

SDG No.: 68088767-1

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

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibra

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					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1 50
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1 50
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1 50
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1 50
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1 50
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1 50
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1 50
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1 50
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1 50
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

136048

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N

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2859

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LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatiles 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					
			CAL-AMT	ON-COL	MASS	RT	EXP RT	REL RT
* 1 Naphthalene-d8	136		40.0000		3.710	3.710	(1.000)	455021
* 6 Acenaphthene-d10	164		40.0000		4.804	4.804	(1.000)	332800
* 10 Phenanthrene-d10	188		40.0000		5.757	5.757	(1.000)	611597
\$ 14 o-Terphenyl	230		0.20000	0.2618	6.004	6.004	(1.043)	2496
* 18 Chrysene-d12	240		40.0000		7.704	7.704	(1.000)	781900
* 23 Perylene-d12	264		40.0000	(H)	8.909	8.909	(1.000)	841000
2 Naphthalene	128		0.20000	0.1937	3.727	3.727	(1.005)	2264
3 2-Methylnaphthalene	142		0.20000	0.2169	4.157	4.157	(1.120)	1726
4 1-Methylnaphthalene	142		0.20000	0.2303	4.216	4.216	(1.136)	1649
5 Acenaphthylene	152		0.20000	0.1733	4.716	4.716	(0.982)	2387
7 Acenaphthene	154		0.20000	0.1568(Q)	4.821	4.821	(1.004)	1338
9 Fluorene	166		0.20000	0.1872	5.145	5.145	(1.071)	2130
11 Phenanthrene	178		0.20000	0.2189	5.768	5.768	(1.002)	3900
12 Anthracene	178		0.20000	0.2082	5.804	5.804	(1.008)	3761
13 Carbazole	167		0.20000	0.1855	5.915	5.915	(1.028)	2871
15 Fluoranthene	202		0.20000	0.1685	6.604	6.604	(1.147)	3316
16 Pyrene	202		0.20000	0.1886	6.774	6.774	(0.879)	4087
17 Benzo(a)anthracene	228		0.20000	0.3066	7.698	7.698	(0.999)	7657
19 Chrysene	228		0.20000	0.1778	7.727	7.727	(1.003)	3963
20 Benzo(b)fluoranthene	252		0.20000	0.2477(H)	8.562	8.562	(0.961)	5890
21 Benzo(k)fluoranthene	252		0.20000	0.1819(H)	8.586	8.586	(0.964)	4185
22 Benzo(a)pyrene	252		0.20000	0.2278(H)	8.851	8.851	(0.993)	5100
24 Indeno(1,2,3-cd)pyrene	276		0.20000	0.2440	10.062	10.062	(1.129)	5188
25 Dibenzo(a,h)anthracene	278		0.20000	0.1971(MH)	10.086	10.086	(1.132)	3872
26 Benzo(g,h,i)perylene	276		0.20000	0.2070(H)	10.415	10.415	(1.169)	4492

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

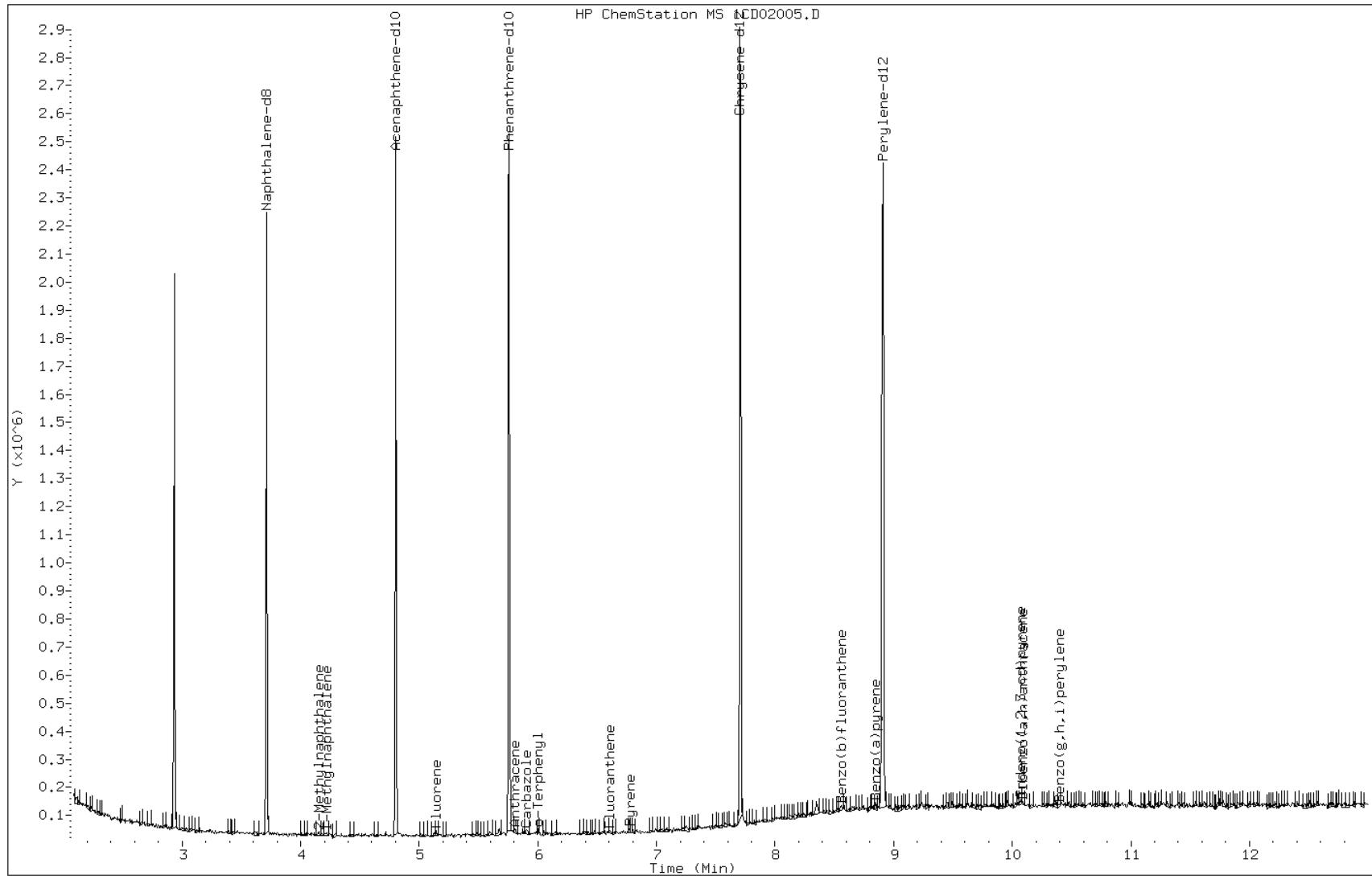
Date: 02-APR-2013 13:26

Client ID:

Instrument: BSMC5973.i

Sample Info: IC1

Operator: SCC



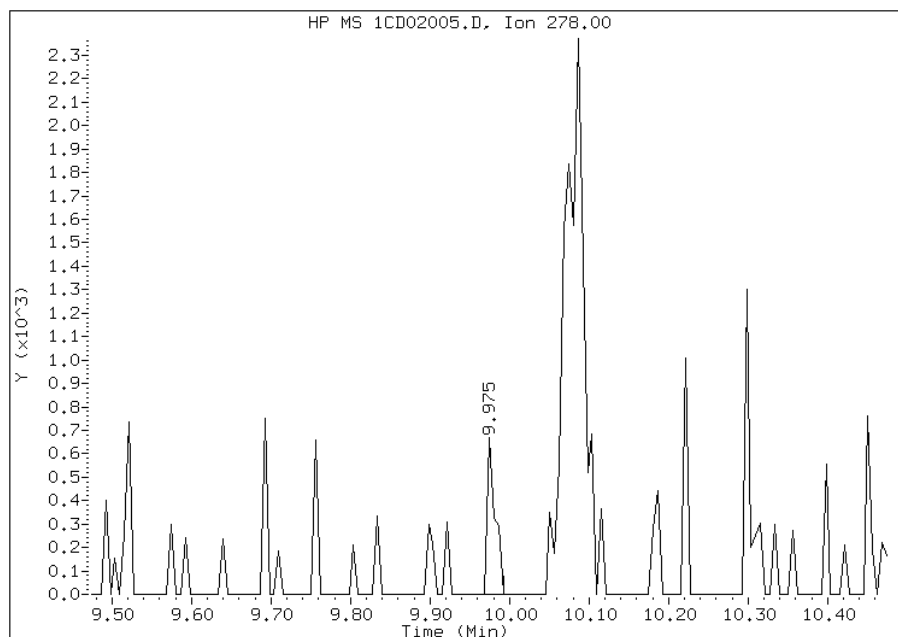


# Manual Integration Report

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

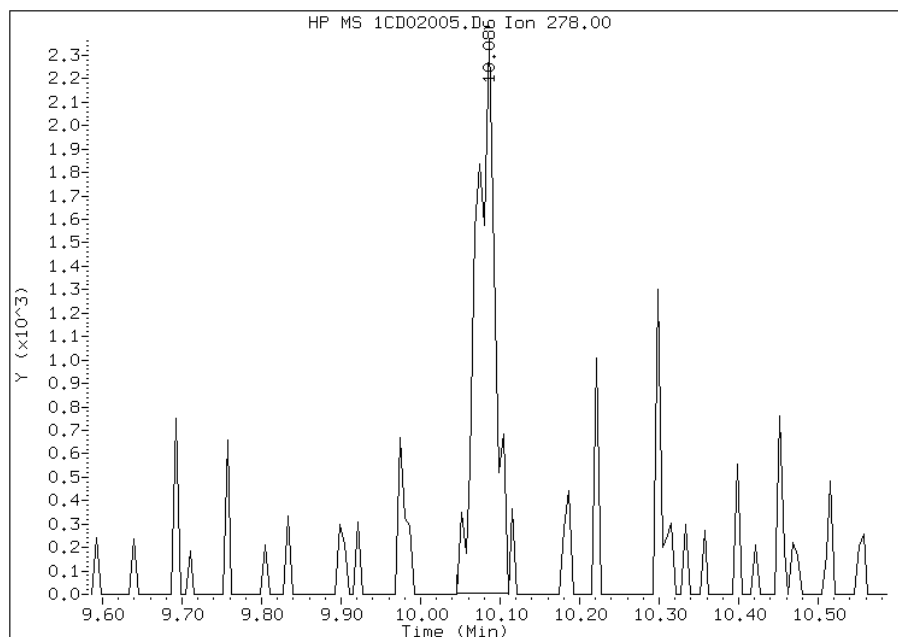
## Processing Integration Results

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

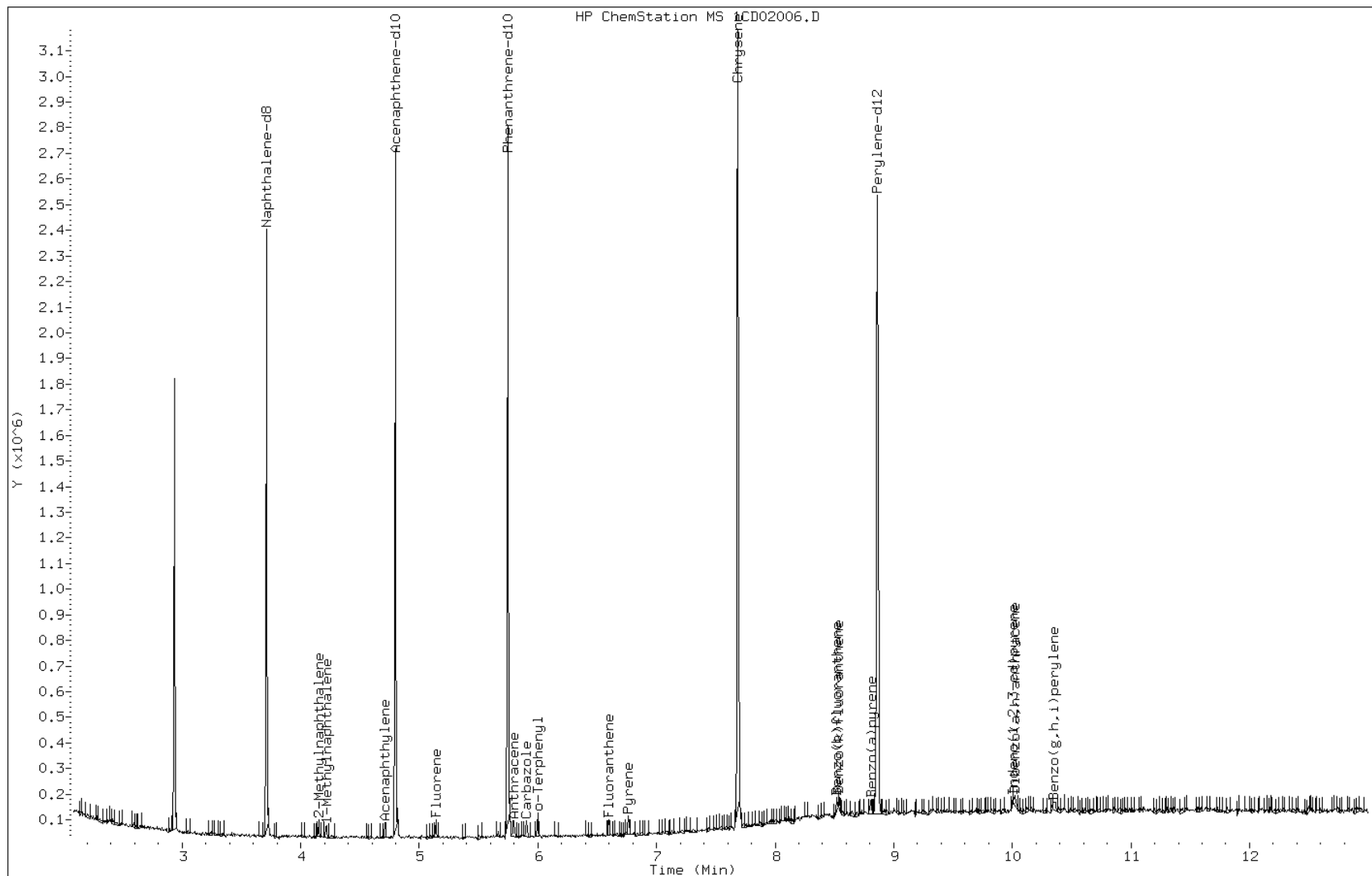
Date: 02-APR-2013 13:44

Client ID:

Instrument: BSMC5973.i

Sample Info: IC2

Operator: SCC

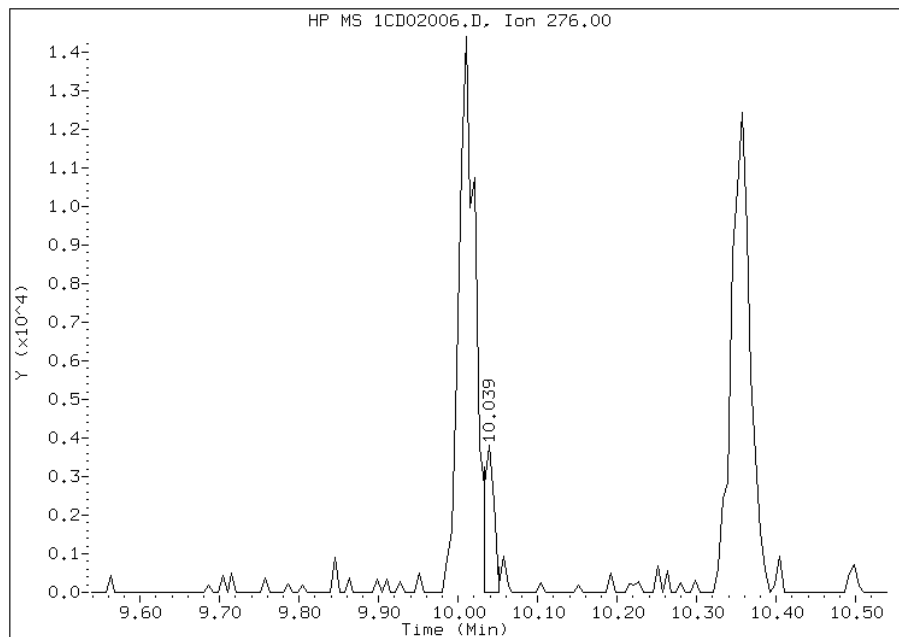


# Manual Integration Report

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

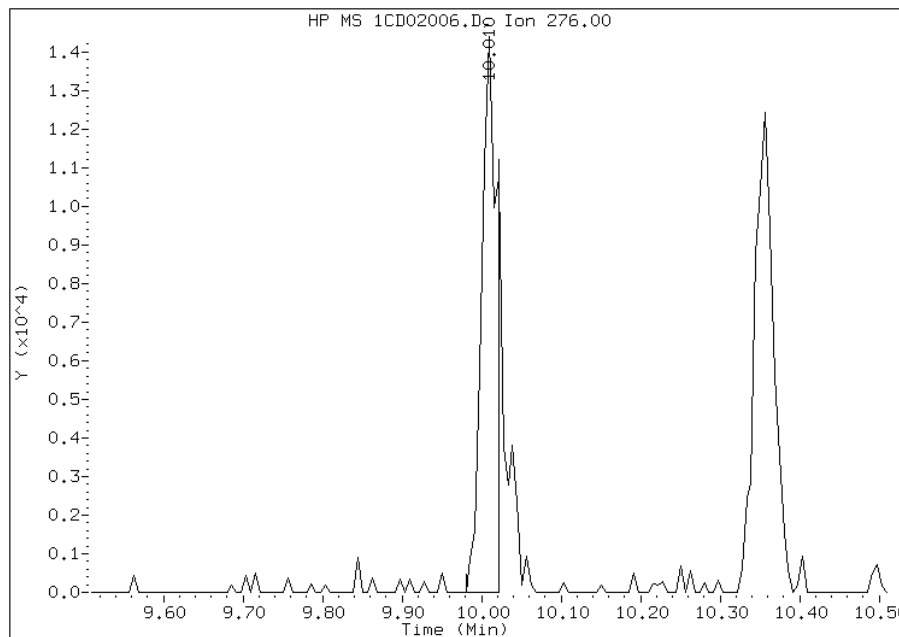
## Processing Integration Results

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

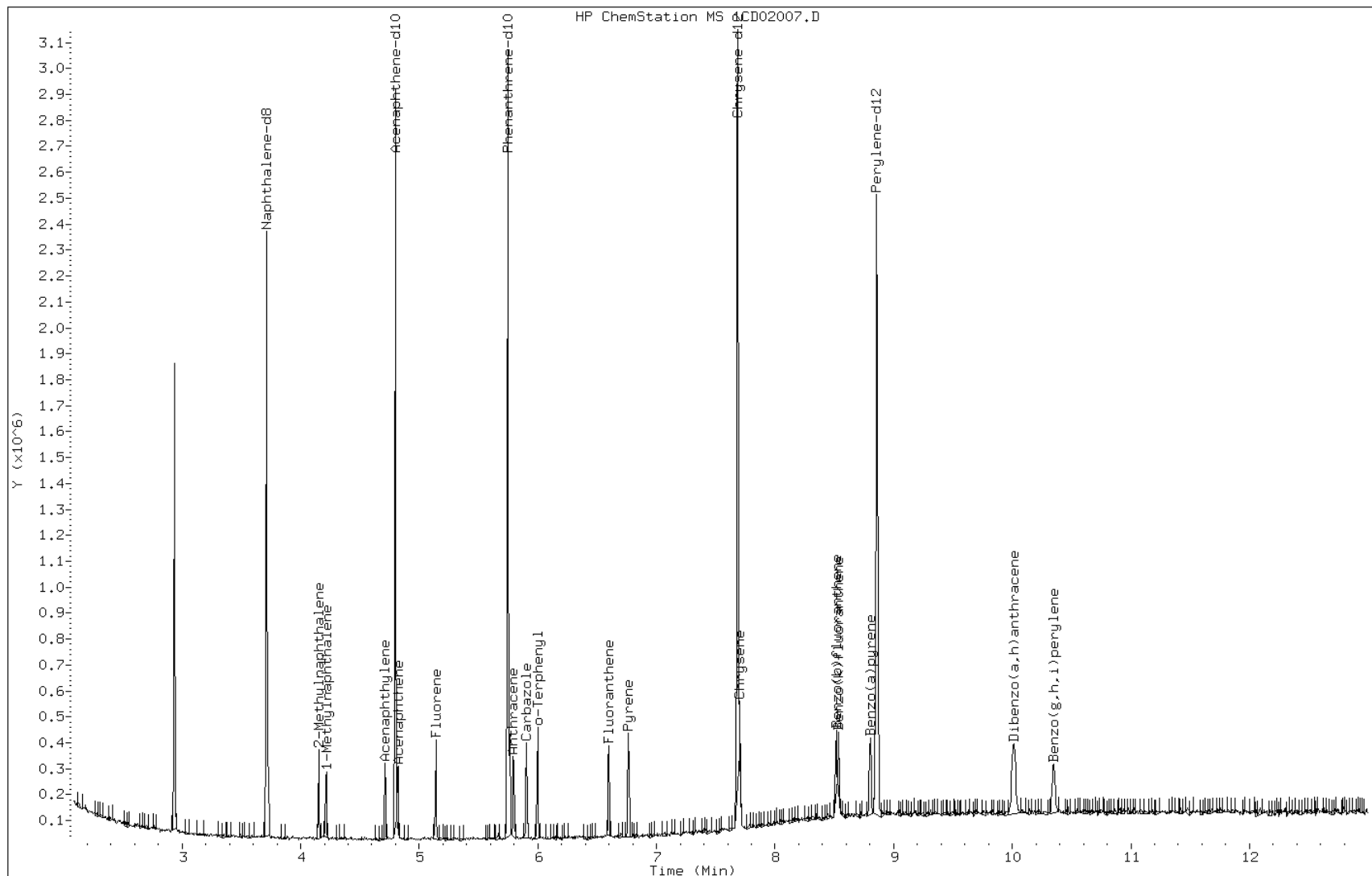
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC

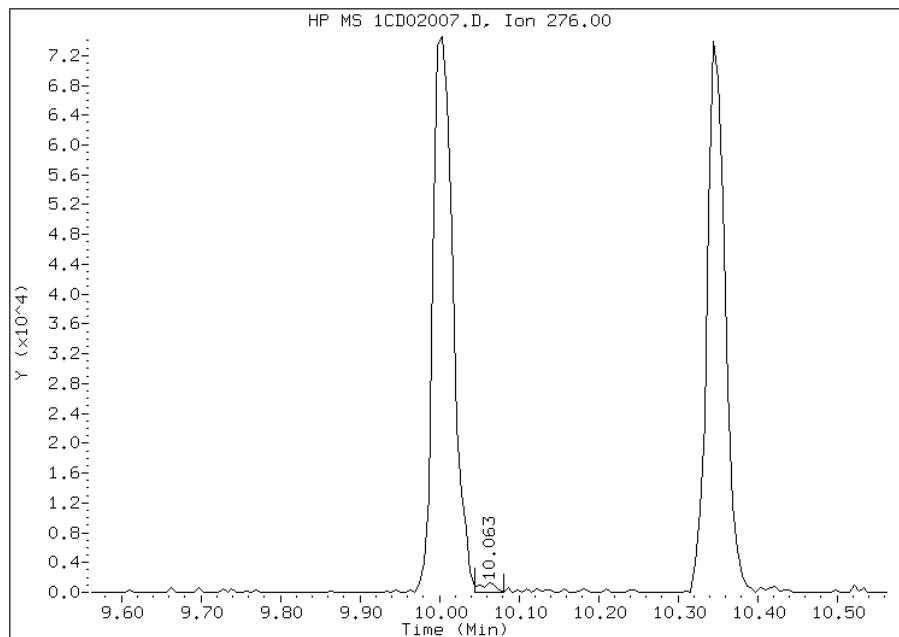


# Manual Integration Report

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

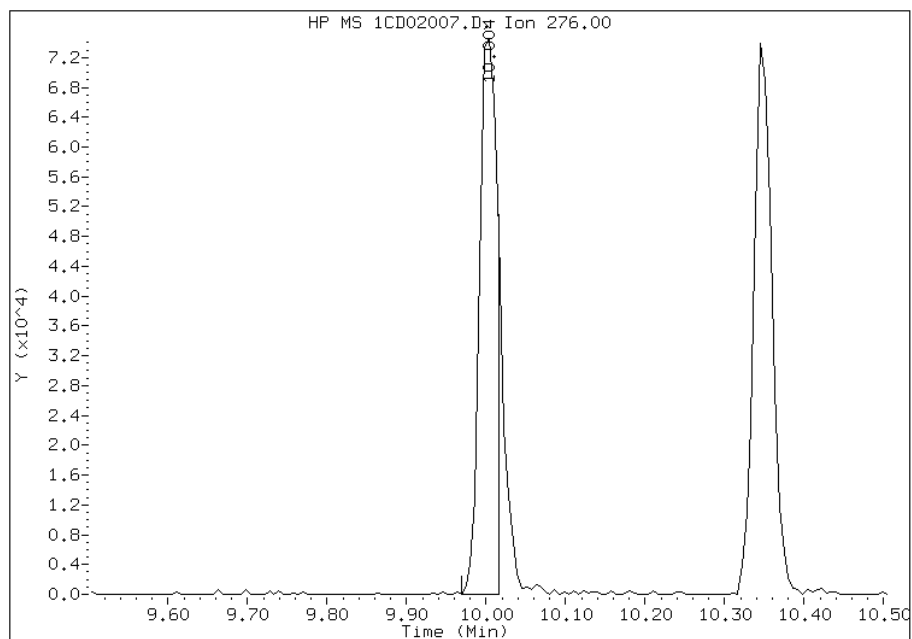
## Processing Integration Results

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

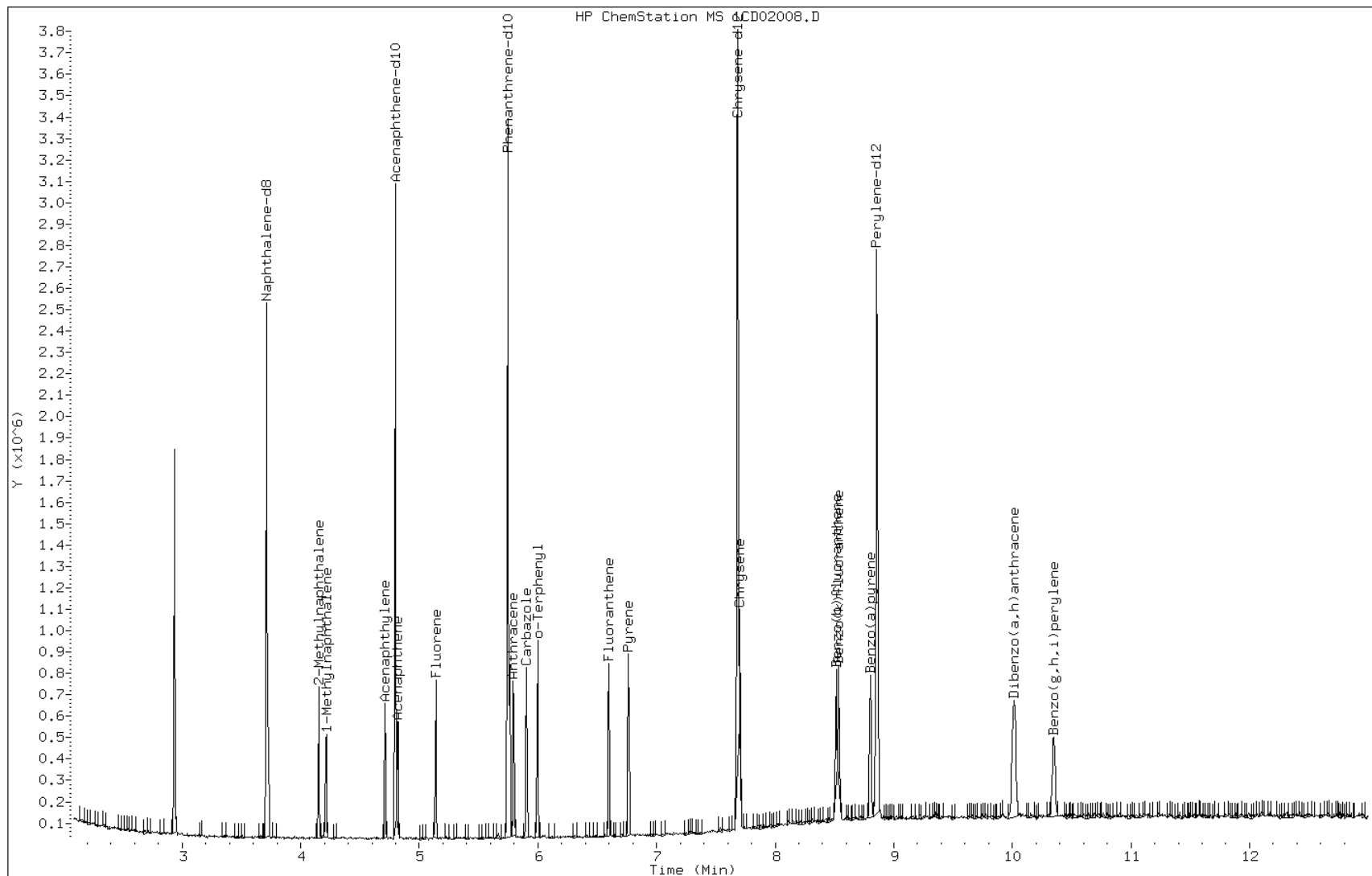
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC

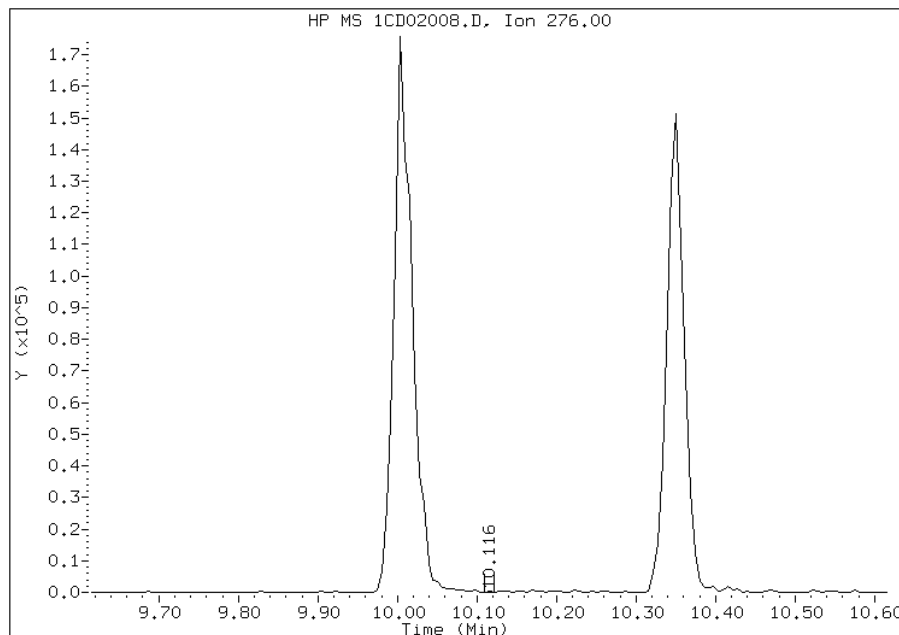


Manual Integration Report

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

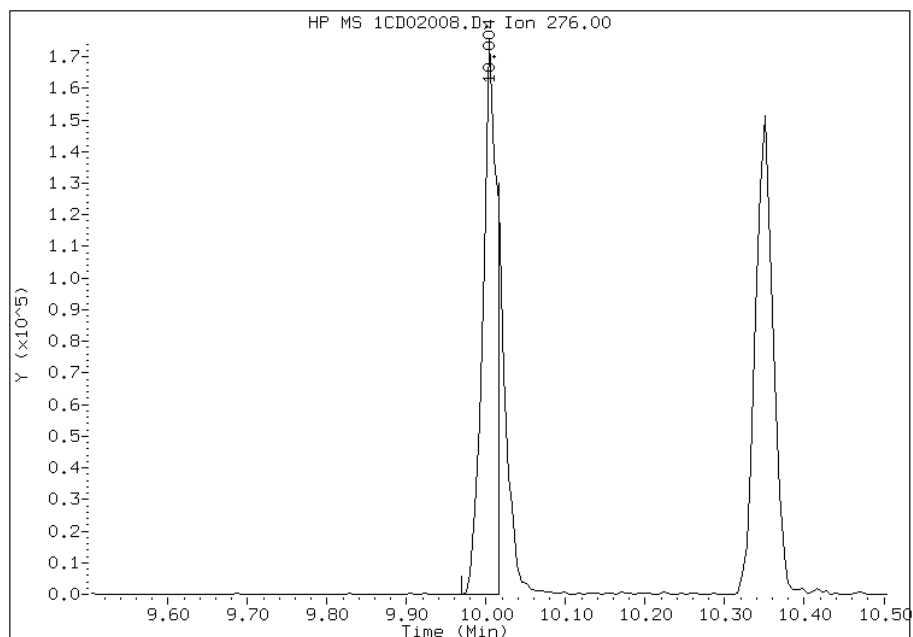
Processing Integration Results

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					
			CAL-AMT	ON-COL	MASS	RT	EXP RT	REL RT
* 1 Naphthalene-d8	136		40.0000		3.710	3.710	(1.000)	501011
* 6 Acenaphthene-d10	164		40.0000		4.798	4.798	(1.000)	361349
* 10 Phenanthrene-d10	188		40.0000		5.745	5.745	(1.000)	702974
\$ 14 o-Terphenyl	230		20.0000	19.3221	5.998	5.998	(1.044)	211673
* 18 Chrysene-d12	240		40.0000		7.686	7.686	(1.000)	875378
* 23 Perylene-d12	264		40.0000		8.862	8.862	(1.000)	942955
2 Naphthalene	128		20.0000	19.6753	3.721	3.721	(1.003)	253190
3 2-Methylnaphthalene	142		20.0000	18.1163	4.151	4.151	(1.119)	158694
4 1-Methylnaphthalene	142		20.0000	20.7620	4.216	4.216	(1.136)	163647
5 Acenaphthylene	152		20.0000	20.6554	4.710	4.710	(0.982)	308909
7 Acenaphthene	154		20.0000	20.6326	4.821	4.821	(1.005)	191043
9 Fluorene	166		20.0000	19.6928	5.139	5.139	(1.071)	243174
11 Phenanthrene	178		20.0000	19.1586	5.762	5.762	(1.003)	392252
12 Anthracene	178		20.0000	19.6676	5.798	5.798	(1.009)	408192
13 Carbazole	167		20.0000	21.1684	5.904	5.904	(1.028)	376402
15 Fluoranthene	202		20.0000	20.7293	6.598	6.598	(1.148)	468708
16 Pyrene	202		20.0000	20.5403	6.762	6.762	(0.880)	498076
17 Benzo(a)anthracene	228		20.0000	17.5920	7.674	7.674	(0.998)	491852
19 Chrysene	228		20.0000	19.8190	7.704	7.704	(1.002)	494376
20 Benzo(b)fluoranthene	252		20.0000	18.5350	8.515	8.515	(0.961)	494109
21 Benzo(k)fluoranthene	252		20.0000	20.0758	8.539	8.539	(0.963)	517620
22 Benzo(a)pyrene	252		20.0000	19.2334	8.803	8.803	(0.993)	482722
24 Indeno(1,2,3-cd)pyrene	276		20.0000	17.3182(M)	10.009	10.009	(1.129)	412839
25 Dibenzo(a,h)anthracene	278		20.0000	19.7965	10.021	10.021	(1.131)	435940
26 Benzo(g,h,i)perylene	276		20.0000	19.3212	10.356	10.356	(1.169)	470085

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02009.D

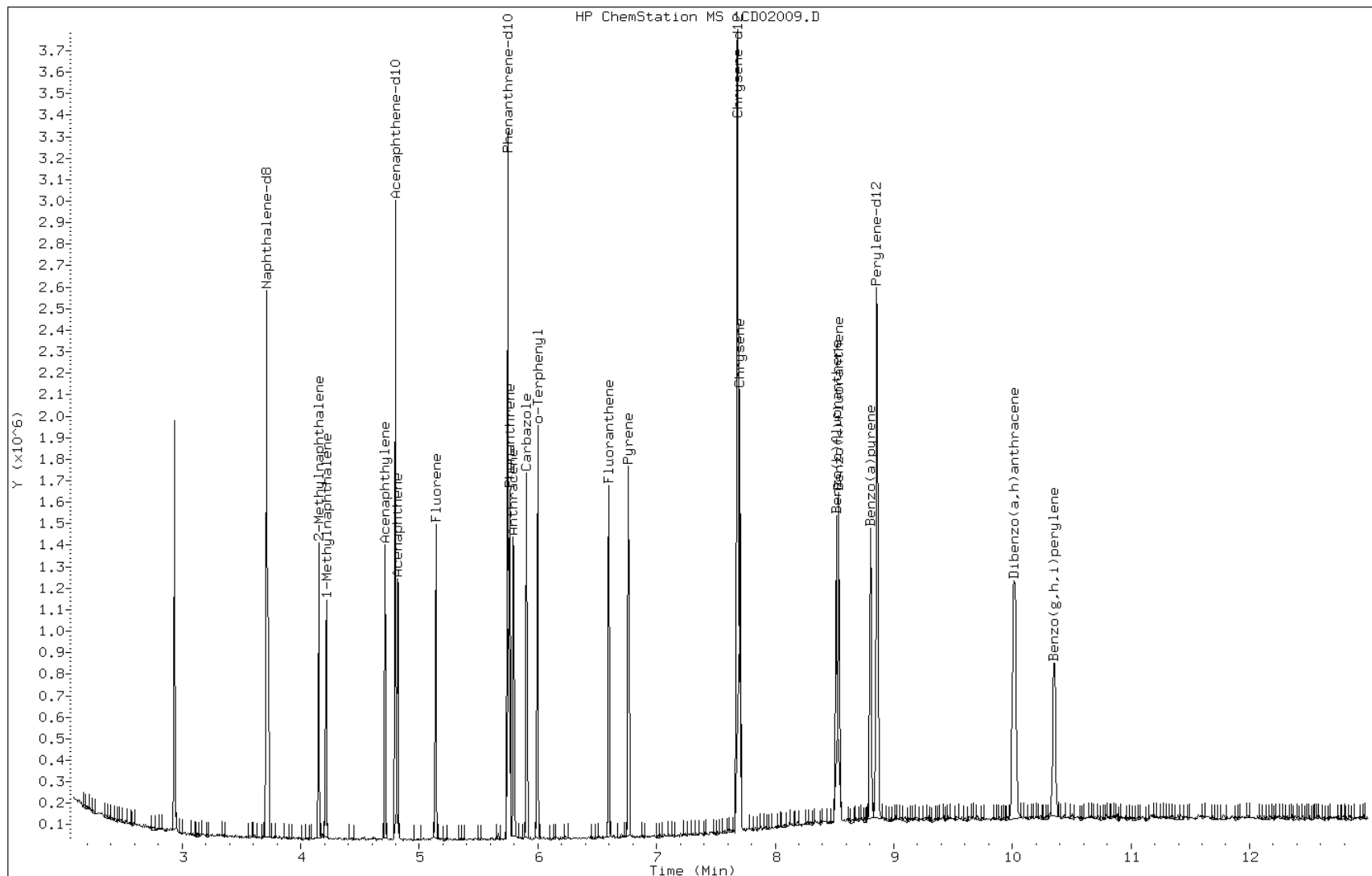
Date: 02-APR-2013 14:39

Client ID:

Instrument: BSMC5973.i

Sample Info: IC5

Operator: SCC

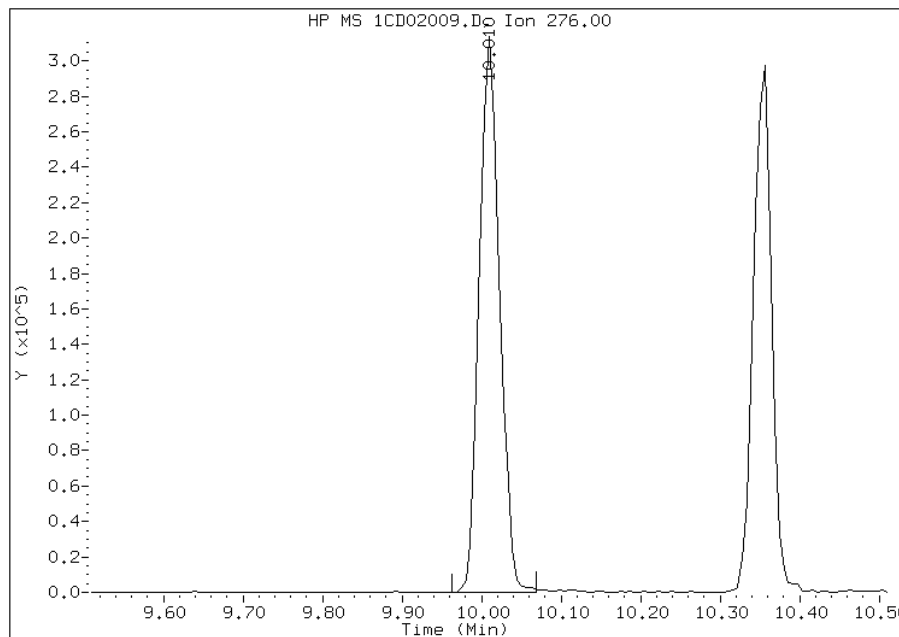


# Manual Integration Report

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

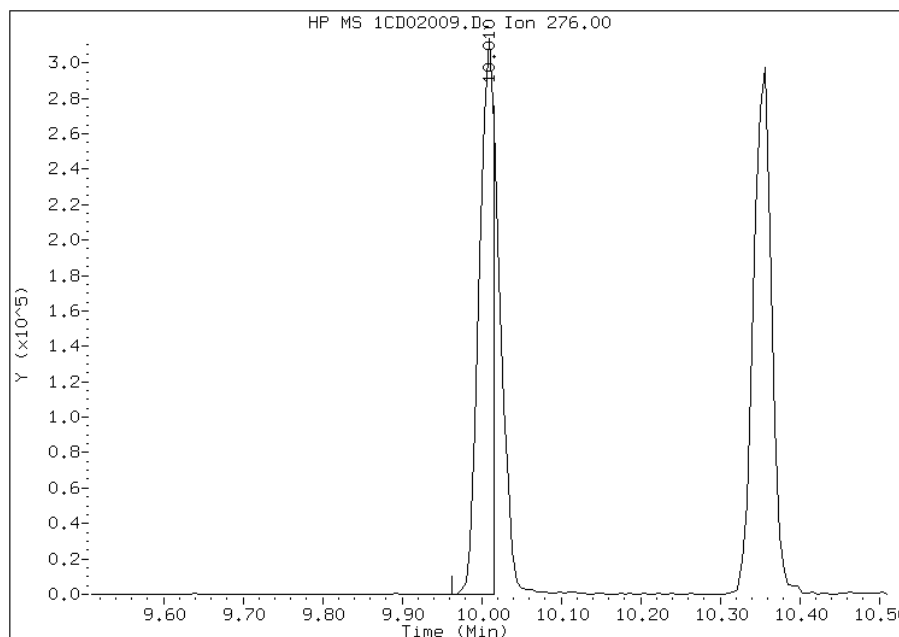
## Processing Integration Results

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

Semivolatiles 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

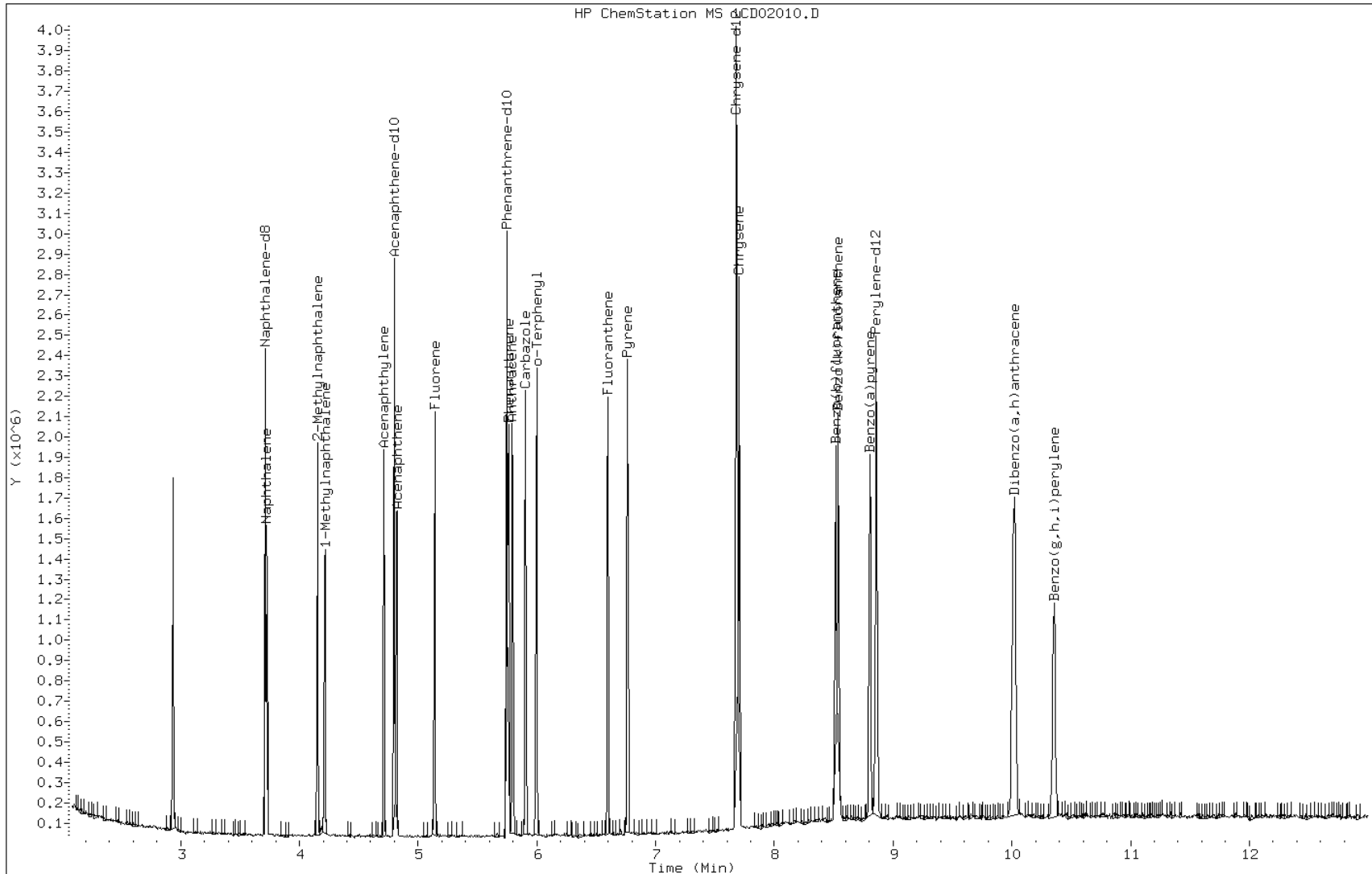
Date: 02-APR-2013 14:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC6

Operator: SCC

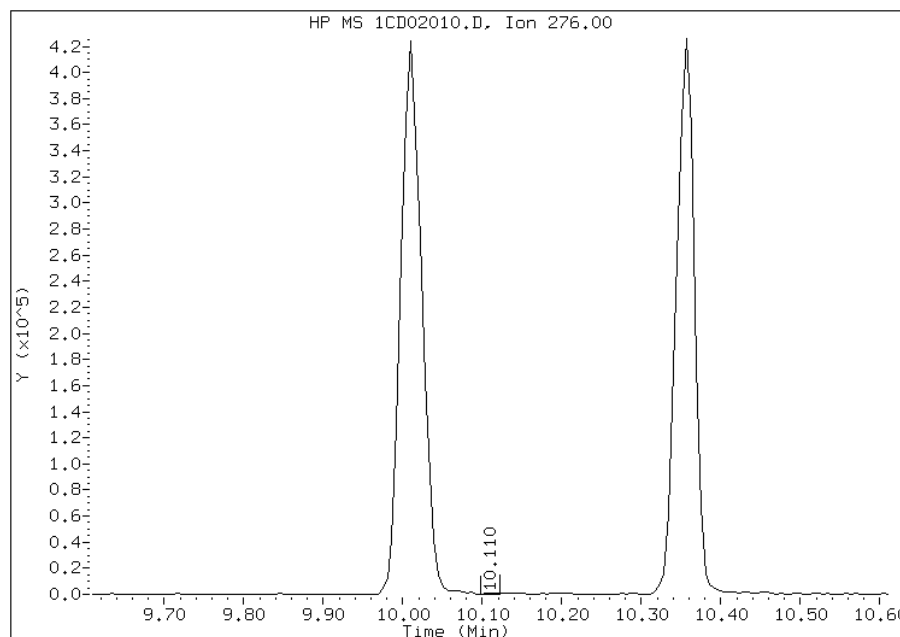


# Manual Integration Report

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

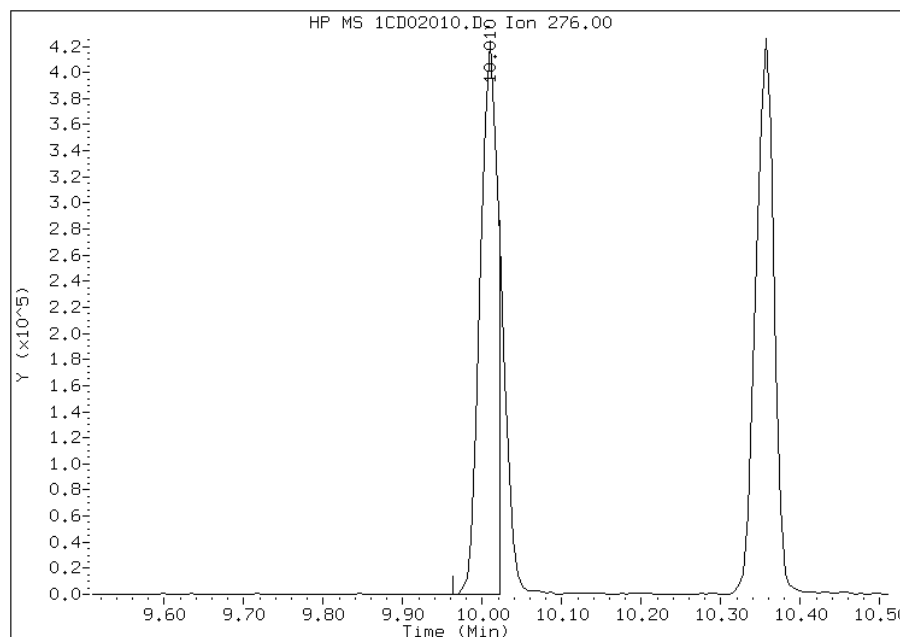
## Processing Integration Results

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

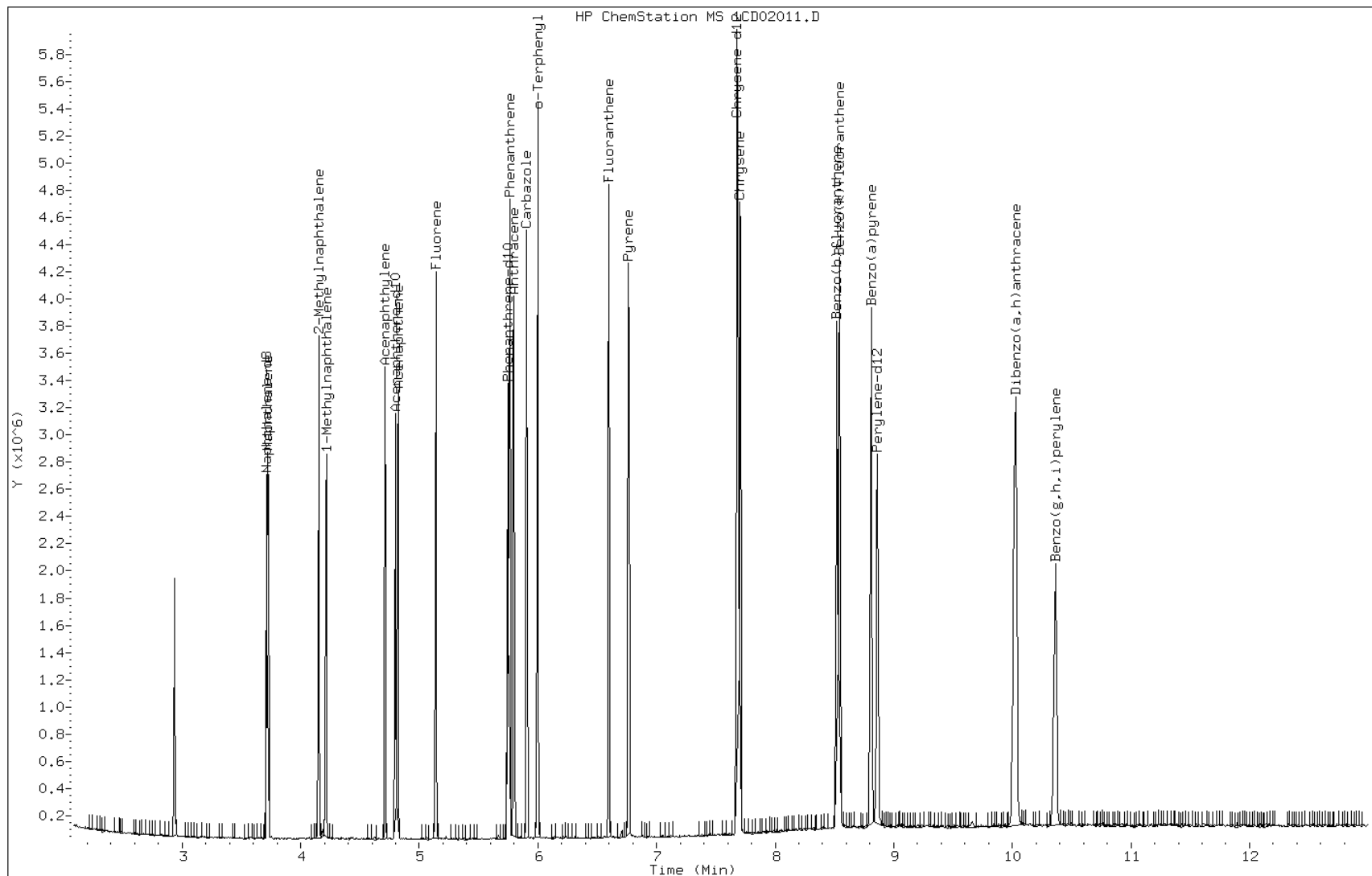
Date: 02-APR-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: IC7

Operator: SCC

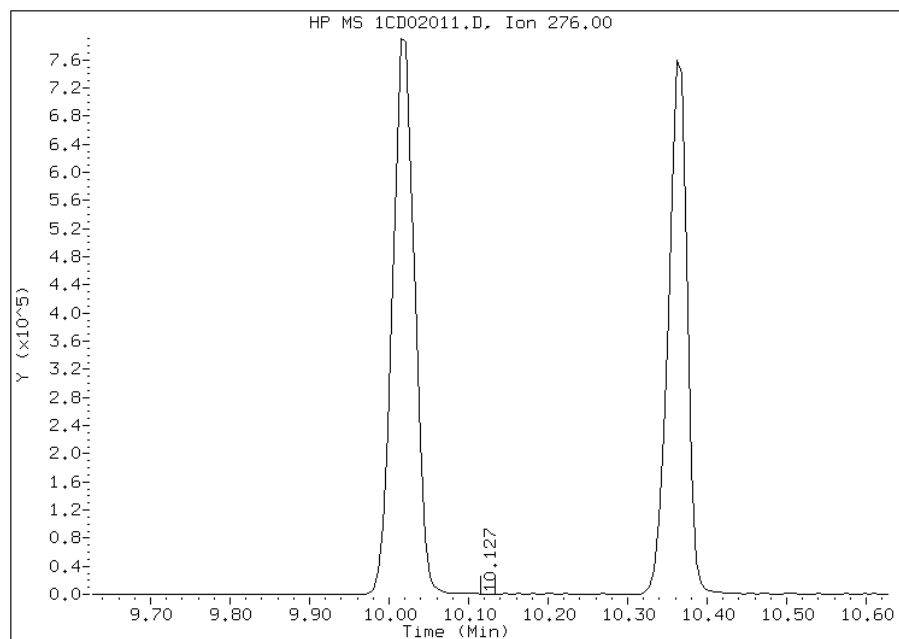


# Manual Integration Report

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

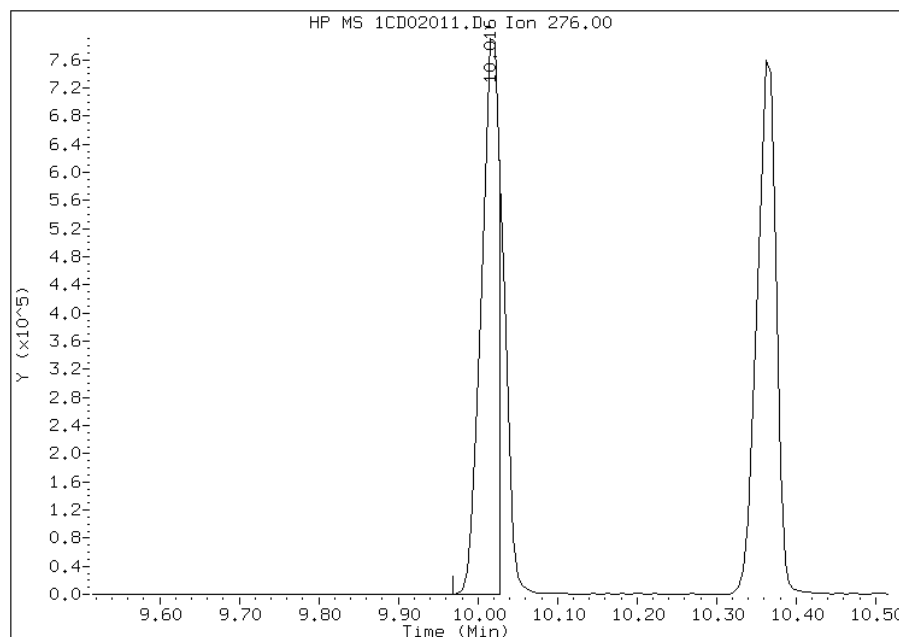
## Processing Integration Results

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.: 680-88767-1  
 SDG No.: 68088767-1  
 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

Semivolatiles 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

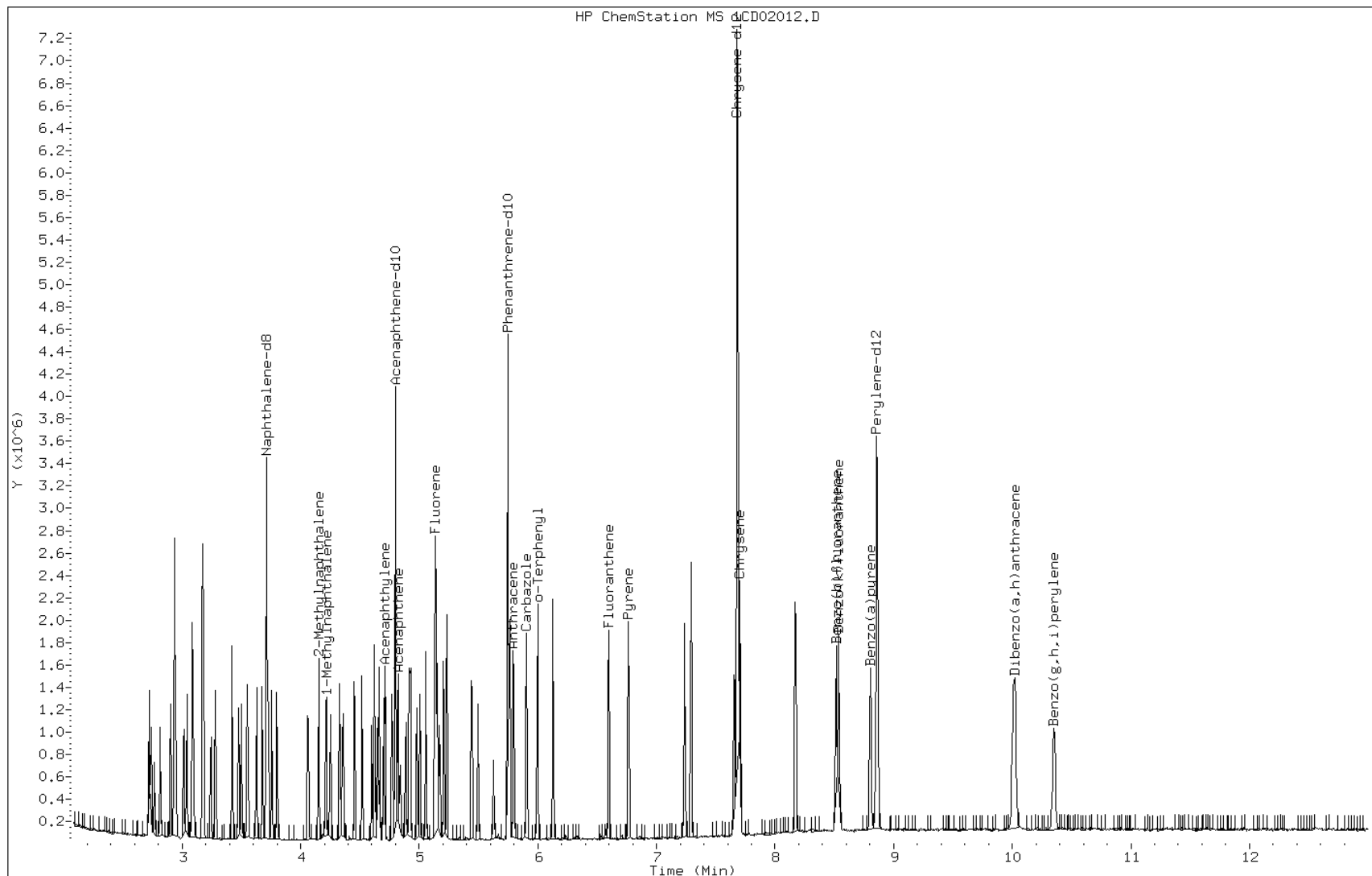
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

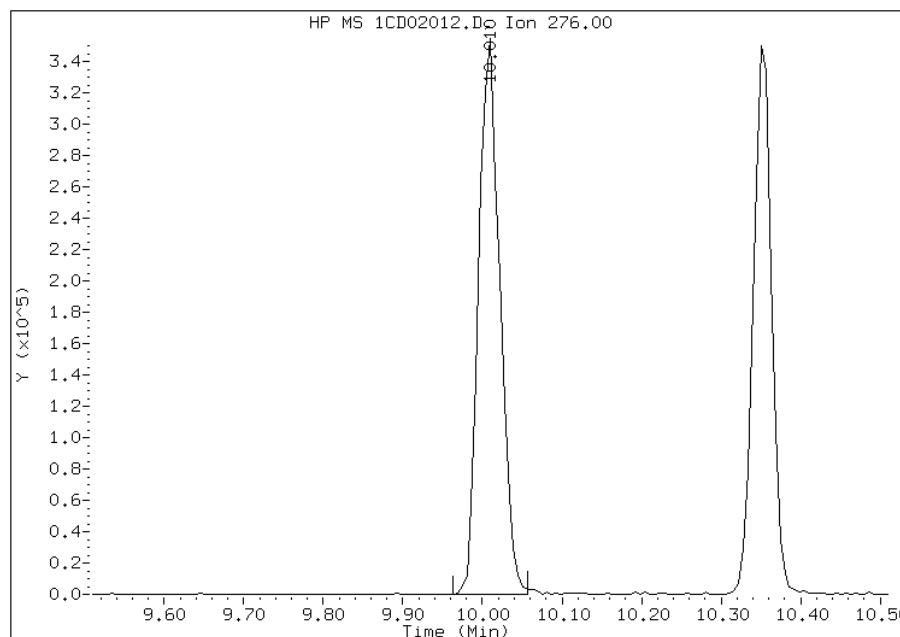


# Manual Integration Report

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

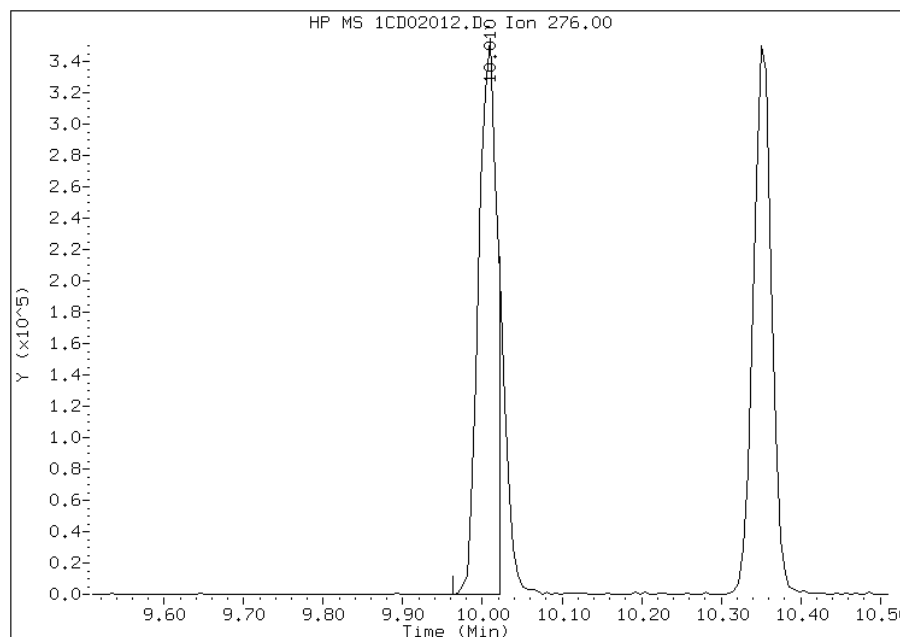
## Processing Integration Results

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.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab Sample ID: CCVIS 660-136081/3 Calibration Date: 04/03/2013 11:45  
 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: 1CD03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.999	0.0000	19400	20000	-2.8	20.0
2-Methylnaphthalene	Ave	0.6994	0.6776	0.0000	19400	20000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6293	0.6430	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.656	1.706	0.0000	20600	20000	3.1	20.0
Acenaphthene	Lin	1.025	0.9817	0.0000	19100	20000	-4.3	20.0
Fluorene	Ave	1.367	1.328	0.0000	19400	20000	-2.9	20.0
Phenanthrene	Ave	1.165	1.152	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.181	1.140	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.311	0.0000	20400	20000	1.9	20.0
Pyrene	Ave	1.108	1.146	0.0000	20700	20000	3.5	20.0
Benzo[a]anthracene	Lin	1.278	1.115	0.0000	19400	20000	-3.1	20.0
Chrysene	Ave	1.140	1.082	0.0000	19000	20000	-5.1	20.0
Benzo[b]fluoranthene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Benzo[k]fluoranthene	Ave	1.094	1.068	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.065	1.055	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9599	0.0000	19000	20000	-5.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9411	0.0000	20200	20000	0.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.995	0.0000	19300	20000	-3.6	20.0
o-Terphenyl	Lin	0.6233	0.6314	0.0000	20100	20000	0.3	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 03-APR-2013 11:45  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\A-BFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	3.704	3.704	(1.000)	500765	40.0000	
* 6 Acenaphthene-d10	=====	164	4.792	4.792	(1.000)	364027	40.0000	
* 10 Phenanthrene-d10	=====	188	5.739	5.739	(1.000)	687020	40.0000	
\$ 14 o-Terphenyl	=====	230	5.992	5.992	(1.044)	216882	20.0000	20.0659
* 18 Chrysene-d12	=====	240	7.680	7.680	(1.000)	857573	40.0000	
* 23 Perylene-d12	=====	264	8.851	8.851	(1.000)	866012	40.0000	
2 Naphthalene	=====	128	3.722	3.722	(1.005)	250131	20.0000	19.4472
3 2-Methylnaphthalene	=====	142	4.145	4.145	(1.119)	169659	20.0000	19.3776
4 1-Methylnaphthalene	=====	142	4.210	4.210	(1.137)	161005	20.0000	20.4368
5 Acenaphthylene	=====	152	4.704	4.704	(0.982)	310521	20.0000	20.6104
7 Acenaphthene	=====	154	4.816	4.816	(1.005)	178686	20.0000	19.1486
9 Fluorene	=====	166	5.133	5.133	(1.071)	241638	20.0000	19.4245
11 Phenanthrene	=====	178	5.757	5.757	(1.003)	395730	20.0000	19.7773
12 Anthracene	=====	178	5.792	5.792	(1.009)	391504	20.0000	19.3016
13 Carbazole	=====	167	5.898	5.898	(1.028)	354598	20.0000	20.4052
15 Fluoranthene	=====	202	6.592	6.592	(1.149)	450430	20.0000	20.3836
16 Pyrene	=====	202	6.757	6.757	(0.880)	491523	20.0000	20.6909
17 Benzo(a)anthracene	=====	228	7.668	7.668	(0.998)	478063	20.0000	19.3750
19 Chrysene	=====	228	7.698	7.698	(1.002)	463959	20.0000	18.9858
20 Benzo(b)fluoranthene	=====	252	8.509	8.509	(0.961)	508197	20.0000	20.7572
21 Benzo(k)fluoranthene	=====	252	8.533	8.533	(0.964)	462286	20.0000	19.5227
22 Benzo(a)pyrene	=====	252	8.798	8.798	(0.994)	456933	20.0000	19.8234
24 Indeno(1,2,3-cd)pyrene	=====	276	9.992	9.992	(1.129)	415659	20.0000	18.9857(M)
25 Dibenzo(a,h)anthracene	=====	278	10.009	10.009	(1.131)	407517	20.0000	20.1500
26 Benzo(g,h,i)perylene	=====	276	10.339	10.339	(1.168)	431010	20.0000	19.2892

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03003.D

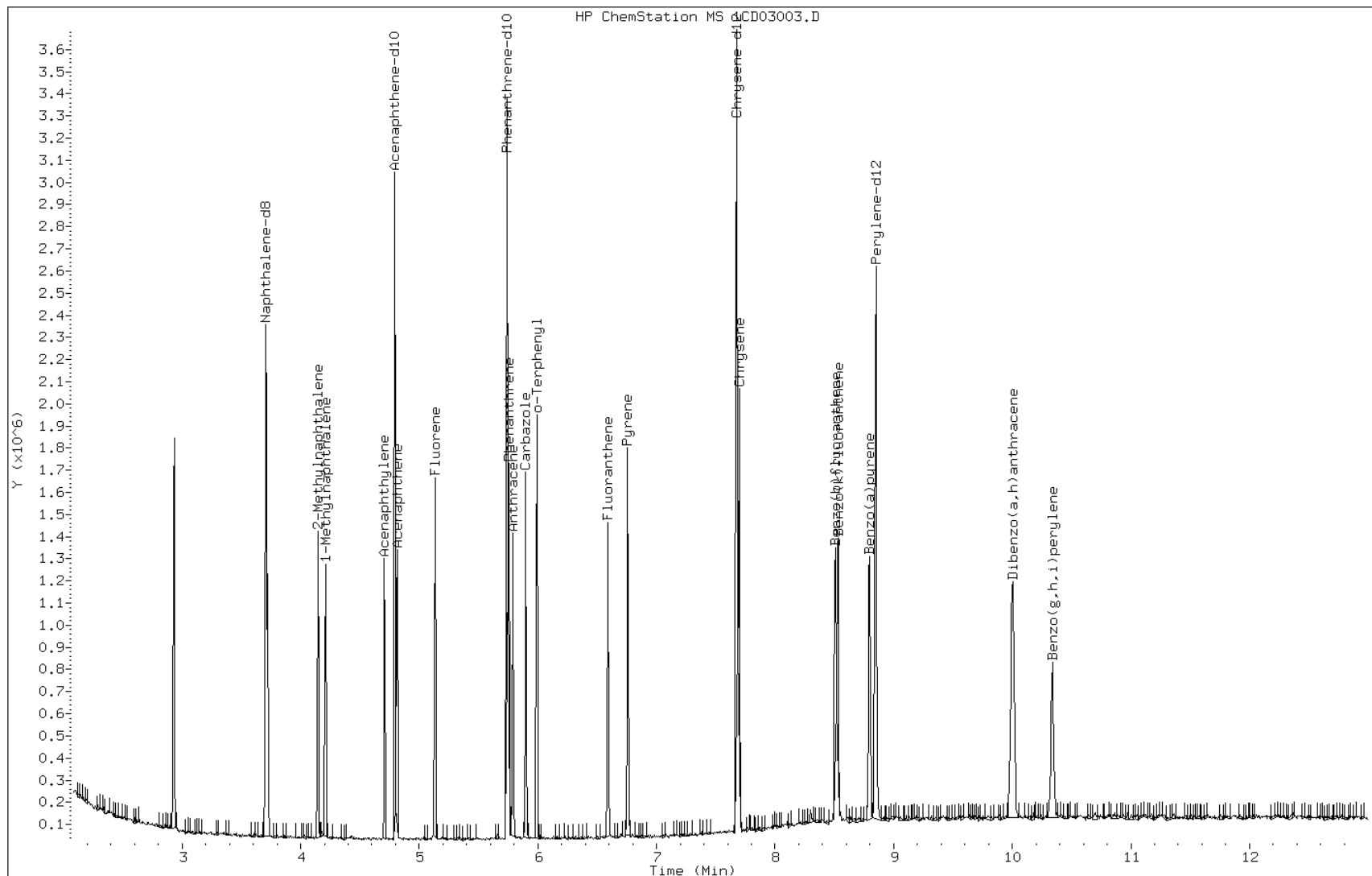
Date: 03-APR-2013 11:45

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

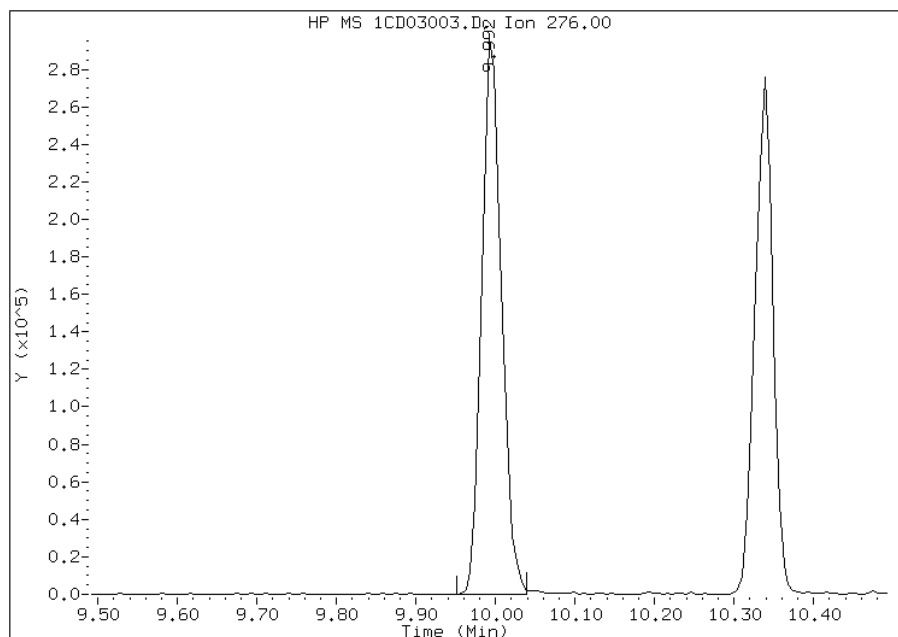


# Manual Integration Report

Data File: 1CD03003.D  
Inj. Date and Time: 03-APR-2013 11:45  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/03/2013

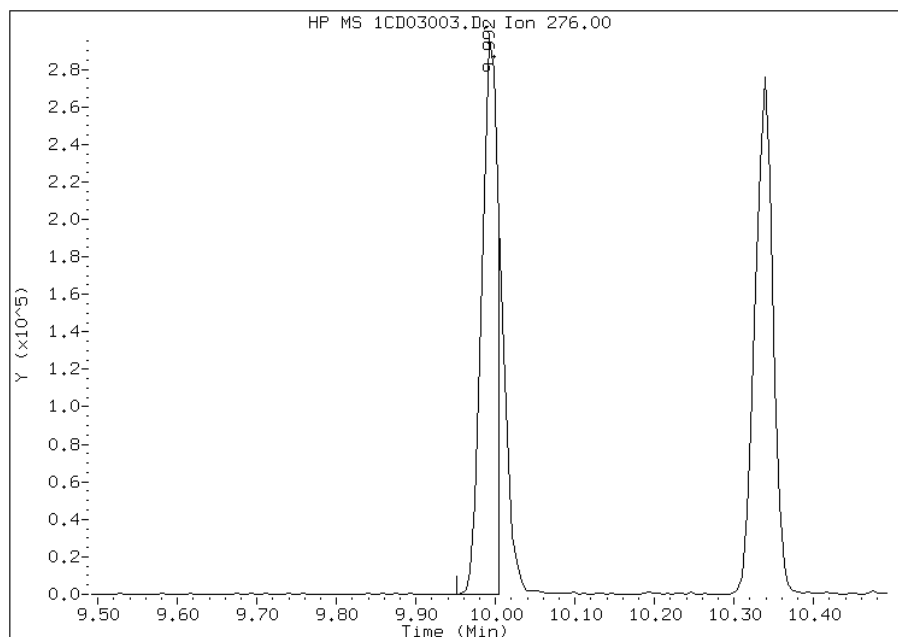
## Processing Integration Results

RT: 9.99  
Response: 506304  
Amount: 23  
Conc: 23



## Manual Integration Results

RT: 9.99  
Response: 415659  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 03-Apr-2013 11:59  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Lab Sample ID: CCVIS 660-136131/3 Calibration Date: 04/04/2013 11:50  
 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: 1CD04003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.017	0.0000	19800	20000	-1.0	20.0
2-Methylnaphthalene	Ave	0.6994	0.7077	0.0000	20200	20000	1.2	20.0
1-Methylnaphthalene	Ave	0.6293	0.6404	0.0000	20400	20000	1.8	20.0
Acenaphthylene	Ave	1.656	1.681	0.0000	20300	20000	1.6	20.0
Acenaphthene	Lin	1.025	1.020	0.0000	19900	20000	-0.5	20.0
Fluorene	Ave	1.367	1.364	0.0000	20000	20000	-0.2	20.0
Phenanthrene	Ave	1.165	1.149	0.0000	19700	20000	-1.3	20.0
Anthracene	Ave	1.181	1.183	0.0000	20000	20000	0.2	20.0
Carbazole	Ave	1.012	1.035	0.0000	20500	20000	2.3	20.0
Fluoranthene	Ave	1.287	1.351	0.0000	21000	20000	5.0	20.0
Pyrene	Ave	1.108	1.145	0.0000	20700	20000	3.4	20.0
Benzo[a]anthracene	Lin	1.278	1.170	0.0000	20300	20000	1.6	20.0
Chrysene	Ave	1.140	1.122	0.0000	19700	20000	-1.6	20.0
Benzo[b]fluoranthene	Ave	1.131	1.092	0.0000	19300	20000	-3.4	20.0
Benzo[k]fluoranthene	Ave	1.094	1.214	0.0000	22200	20000	11.0	20.0
Benzo[a]pyrene	Ave	1.065	1.049	0.0000	19700	20000	-1.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8852	0.0000	17500	20000	-12.5	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9435	0.0000	20200	20000	1.0	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9722	0.0000	18800	20000	-5.8	20.0
o-Terphenyl	Lin	0.6233	0.6642	0.0000	21100	20000	5.4	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 04-APR-2013 11:50  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 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)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	410068	40.0000	
* 6 Acenaphthene-d10	164	4.786	4.786	(1.000)	312571	40.0000	
* 10 Phenanthrene-d10	188	5.733	5.733	(1.000)	602712	40.0000	
\$ 14 o-Terphenyl	230	5.992	5.992	(1.045)	200171	20.0000	21.0726
* 18 Chrysene-d12	240	7.692	7.692	(1.000)	790423	40.0000	
* 23 Perylene-d12	264	8.886	8.886	(1.000)	846222	40.0000	
2 Naphthalene	128	3.710	3.710	(1.005)	208595	20.0000	19.8048
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	145093	20.0000	20.2371
4 1-Methylnaphthalene	142	4.198	4.198	(1.137)	131296	20.0000	20.3519
5 Acenaphthylene	152	4.698	4.698	(0.982)	262754	20.0000	20.3109
7 Acenaphthene	154	4.804	4.804	(1.004)	159473	20.0000	19.9030
9 Fluorene	166	5.127	5.127	(1.071)	213227	20.0000	19.9623
11 Phenanthrene	178	5.751	5.751	(1.003)	346375	20.0000	19.7322
12 Anthracene	178	5.786	5.786	(1.009)	356599	20.0000	20.0399
13 Carbazole	167	5.898	5.898	(1.029)	311970	20.0000	20.4634
15 Fluoranthene	202	6.592	6.592	(1.150)	407223	20.0000	21.0061
16 Pyrene	202	6.763	6.763	(0.879)	452614	20.0000	20.6717
17 Benzo(a)anthracene	228	7.686	7.686	(0.999)	462430	20.0000	20.3269
19 Chrysene	228	7.710	7.710	(1.002)	443286	20.0000	19.6809
20 Benzo(b)fluoranthene	252	8.533	8.533	(0.960)	462202	20.0000	19.3200
21 Benzo(k)fluoranthene	252	8.557	8.557	(0.963)	513814	20.0000	22.2062
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	443904	20.0000	19.7086
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.056	(1.132)	374520	20.0000	17.5067(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.074	(1.134)	399186	20.0000	20.1996
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.172)	411341	20.0000	18.8394

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD04003.D

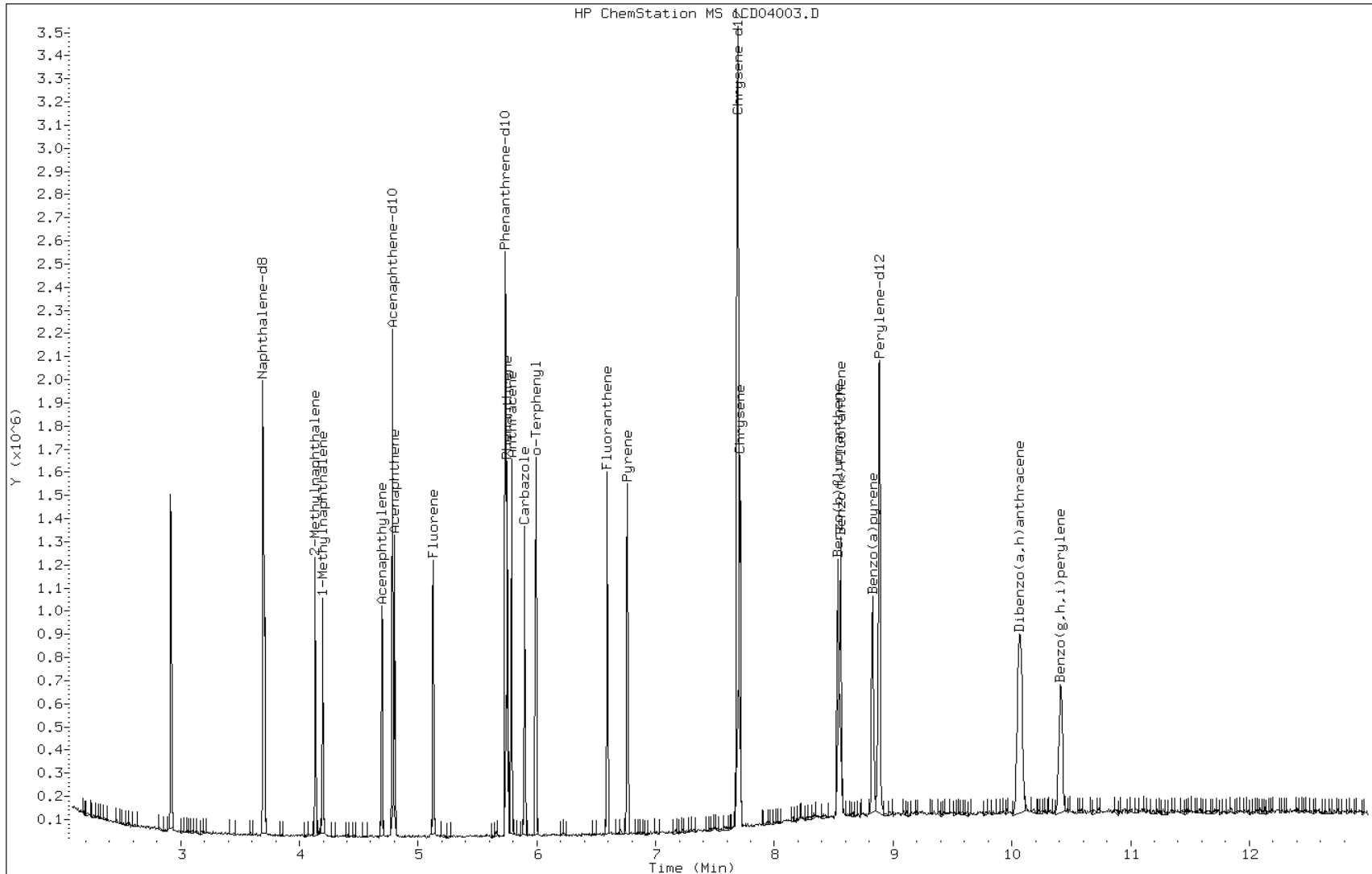
Date: 04-APR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

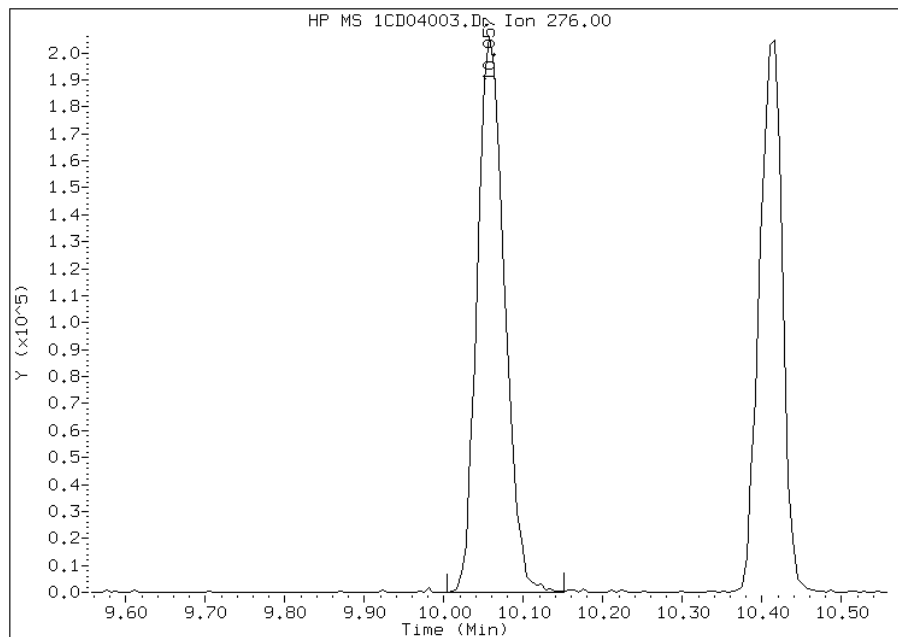


# Manual Integration Report

Data File: 1CD04003.D  
Inj. Date and Time: 04-APR-2013 11:50  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/04/2013

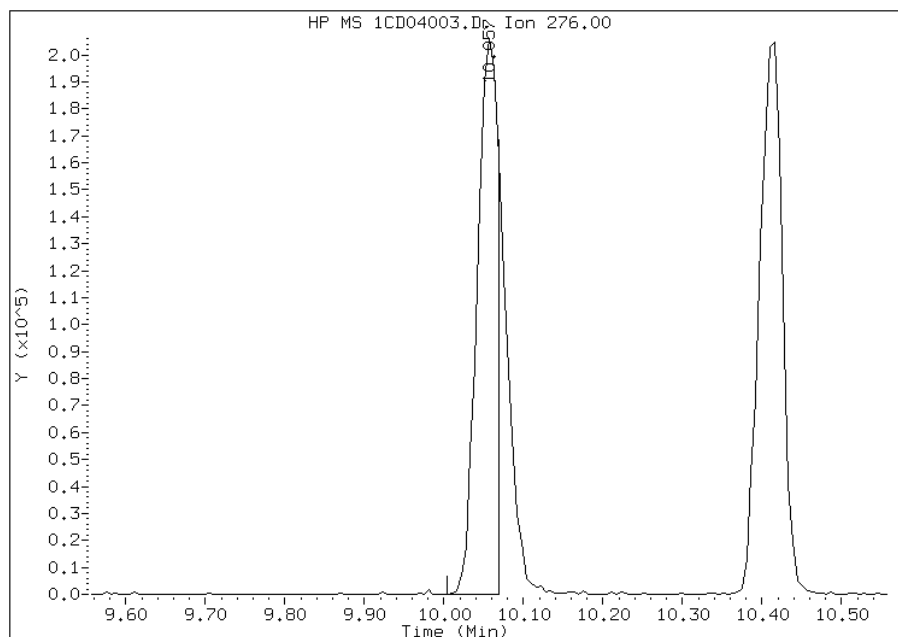
## Processing Integration Results

RT: 10.06  
Response: 490265  
Amount: 23  
Conc: 23



## Manual Integration Results

RT: 10.06  
Response: 374520  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 12:04  
Manual Integration Reason: Split Peak



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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

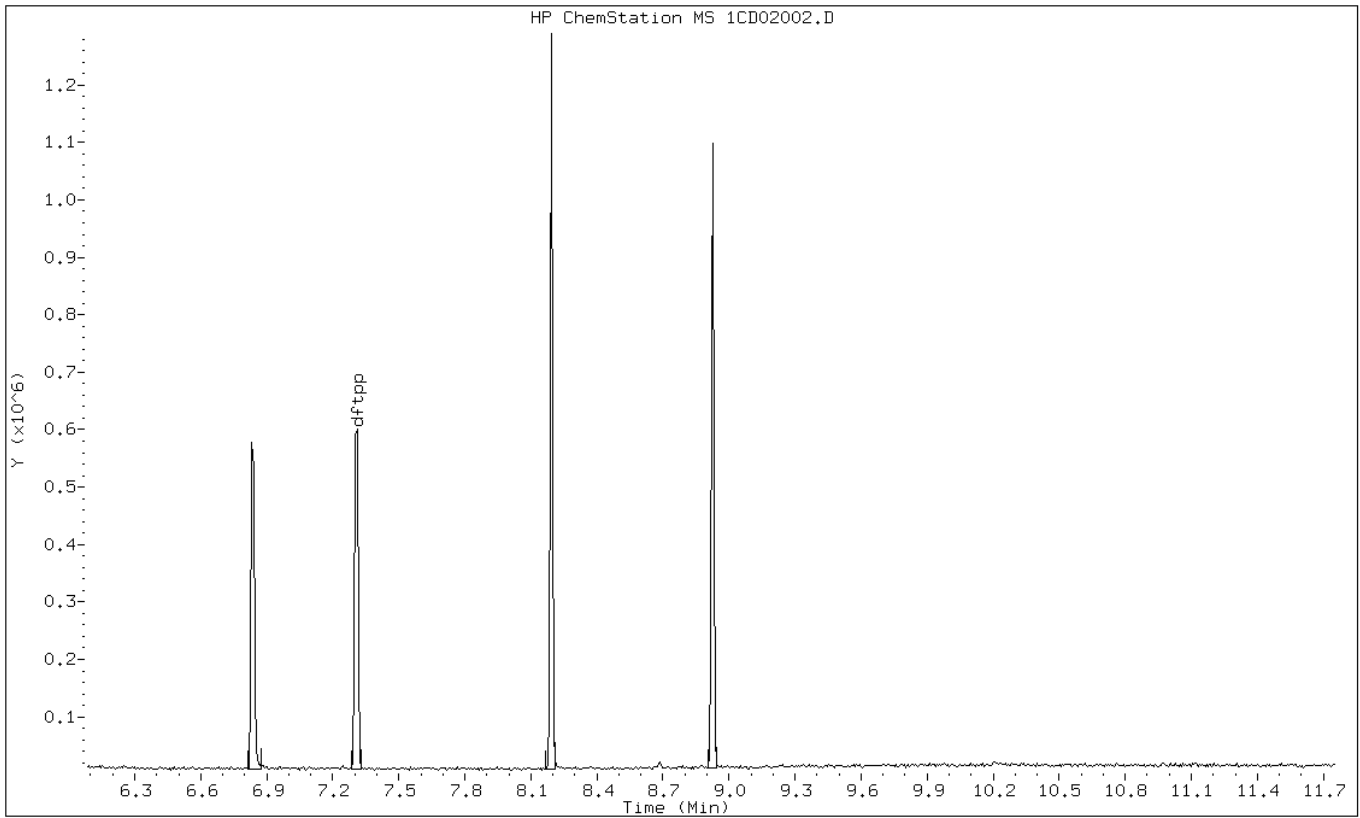
Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02002.D

Date: 02-APR-2013 11:31

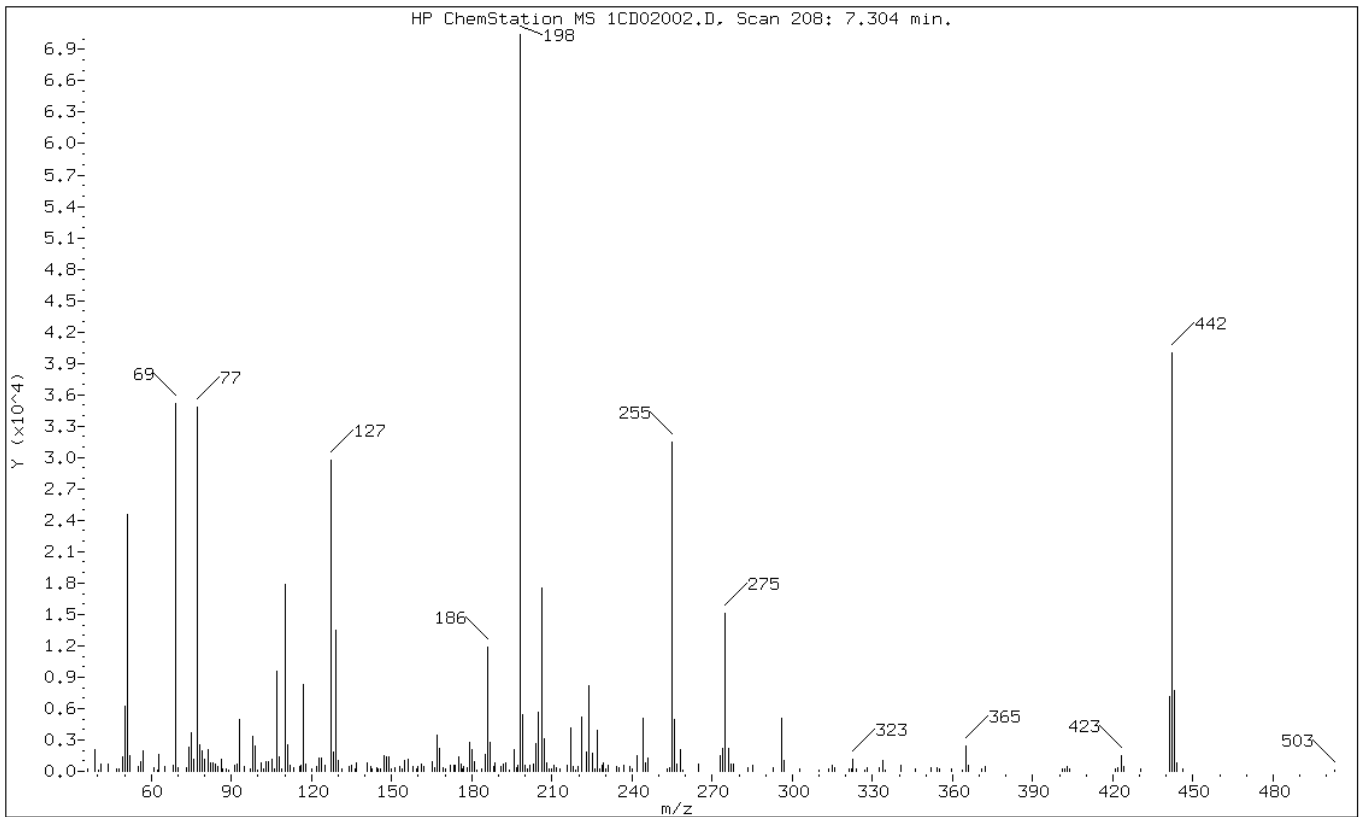
Client ID: DFTPP

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-chemsvr\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\1C040313.b\1CD03002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 03-APR-2013 11:28  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.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				
7.304	7.469	-0.165	198	75560		50.00- 0.00	100.00		
7.304	7.469	-0.165	51	32256		10.00- 80.00	42.69		
7.304	7.469	-0.165	68	431		0.00- 2.00	1.15		
7.304	7.469	-0.165	69	37536		0.00- 0.00	49.68		
7.304	7.469	-0.165	70	0	0.0	0.0	0.00- 2.00	0.00	
7.304	7.469	-0.165	127	36336		10.00- 80.00	48.09		
7.304	7.469	-0.165	197	0	0.0	0.0	0.00- 2.00	0.00	
7.304	7.469	-0.165	442	46072		50.00- 0.00	60.97		
7.304	7.469	-0.165	199	4654		5.00- 9.00	6.16		
7.304	7.469	-0.165	275	14882		10.00- 60.00	19.70		
7.304	7.469	-0.165	365	1786		1.00- 0.00	2.36		
7.304	7.469	-0.165	441	5248		0.01- 99.99	68.32		
7.304	7.469	-0.165	443	7681		15.00- 24.00	16.67		

Data File: 1CD03002.D

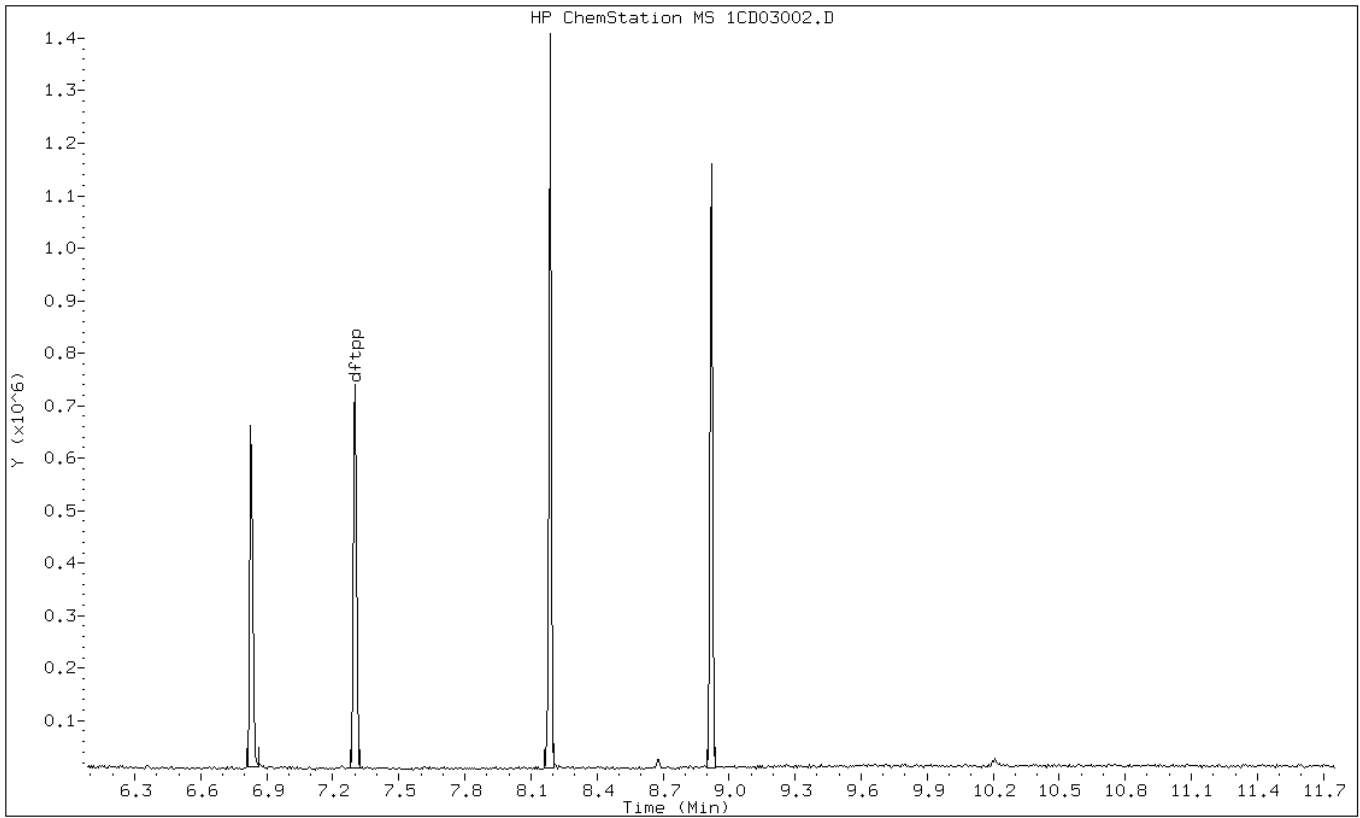
Date: 03-APR-2013 11:28

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD03002.D

Date: 03-APR-2013 11:28

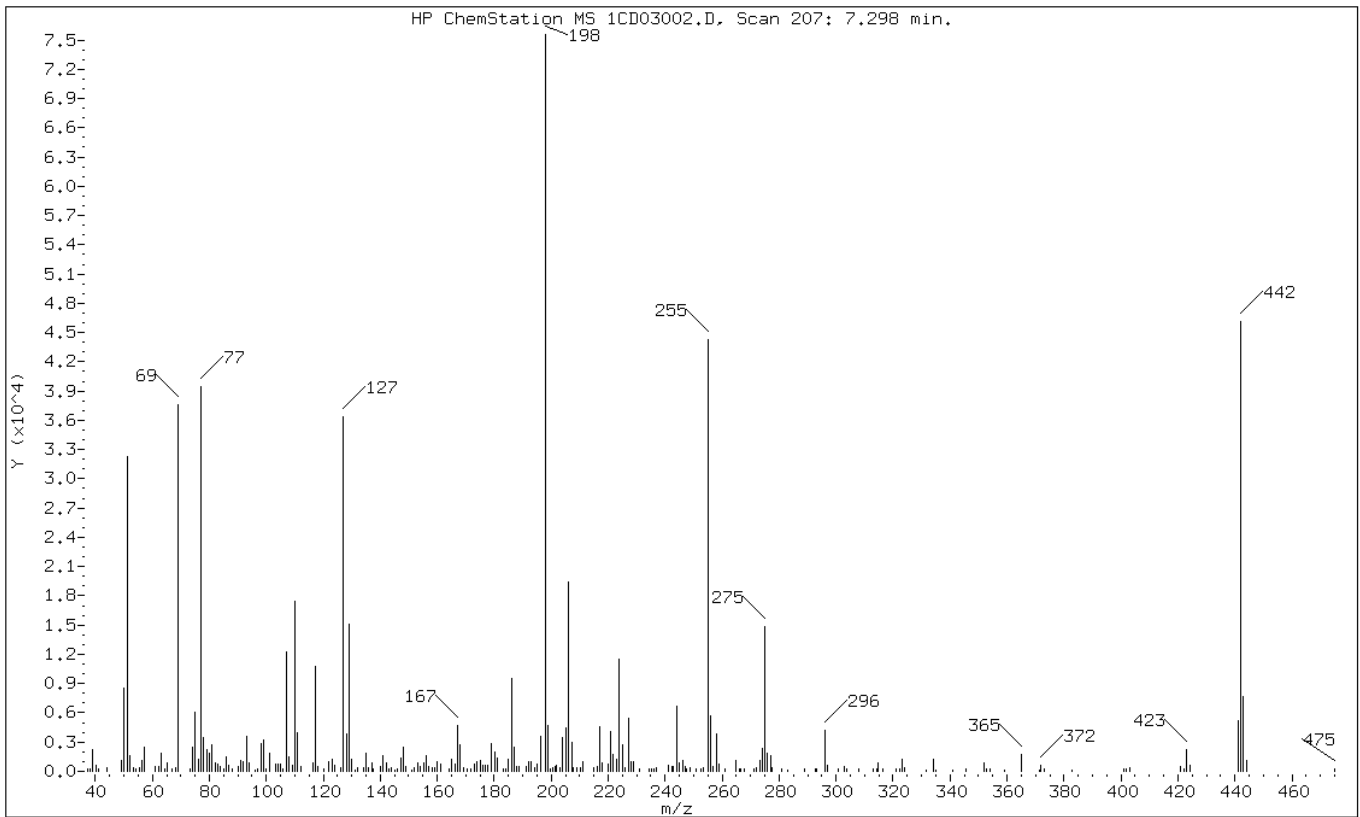
Client ID: DFTPP

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	42.69
68	Less than 2.00% of mass 69	0.57 ( 1.15)
69	Mass 69 relative abundance	49.68
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	48.09
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.97
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 60.00% of mass 198	19.70
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	6.95
443	15.00 - 24.00% of mass 442	10.17 ( 16.67)



Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D

Spectrum: HP ChemStation MS 1CD03002.D, Scan 207: 7.298 min.

Location of Maximum: 198.00

Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.30	192	117.10	10764	188.00	493	266.00	218
38.00	283	118.00	527	188.90	513	266.70	201
39.10	2239	120.10	245	191.10	499	267.90	235
40.10	585	122.00	935	192.00	1043	271.10	199
40.90	297	123.10	1247	192.90	1024	272.10	327
44.10	330	123.90	604	194.10	332	273.10	1066
49.00	1129	126.00	335	195.20	727	274.00	2324
50.10	8491	127.10	36336	196.10	3641	275.00	14882
51.10	32256	128.10	3781	198.00	75560	276.00	1830
52.10	1581	129.00	15116	199.00	4654	277.00	1659
53.20	336	130.00	1263	199.90	276	277.70	402
54.10	256	131.20	159	200.60	335	281.00	220
55.30	348	132.00	334	201.20	451	282.80	180
56.20	1156	134.10	331	202.00	580	289.00	293
57.10	2512	135.10	1813	203.20	332	292.70	189
60.90	464	135.90	409	204.10	3436	293.20	284
62.10	453	137.00	852	205.00	4509	296.00	4228
63.00	1830	137.70	212	206.10	19472	297.00	626
64.20	214	140.10	437	207.10	2922	300.80	203
65.00	826	141.00	1569	207.90	382	303.00	545
66.80	196	142.10	863	209.10	415	303.80	201
68.00	431	143.00	262	210.20	312	308.00	262
69.10	37536	144.00	331	211.00	973	313.00	225
73.10	264	145.00	171	214.90	410	314.10	209
74.10	2431	146.00	305	216.00	506	314.90	815
75.10	6014	147.10	1301	217.00	4568	316.30	293
76.10	1227	148.10	2447	218.00	865	321.00	250
77.10	39480	149.00	456	220.20	718	322.20	285
78.00	3407	151.10	166	221.00	4124	323.00	1264
79.10	2246	152.10	368	221.70	1716	324.00	356
80.00	1895	153.00	900	223.10	1261	331.80	174
81.00	2668	154.10	515	224.00	11463	334.00	1232
82.10	879	155.10	863	225.10	2700	334.90	167
83.10	764	156.10	1663	226.00	418	340.90	178
84.00	475	157.00	538	227.00	5402	345.50	200
85.00	238	158.10	315	227.90	949	345.70	201
86.00	1545	159.10	361	229.00	1026	352.00	846
86.80	591	160.10	1033	231.00	287	352.90	228
88.00	244	161.10	710	234.20	305	354.00	283
90.00	555	164.00	222	235.10	301	359.10	153

90.90	1058	165.10	1243	236.10	289	364.90	1786
92.00	991	166.10	702	237.00	410	371.30	185
93.00	3605	167.00	4706	241.10	620	371.90	659
94.10	821	168.10	2729	242.20	454	373.00	302
96.10	182	169.20	408	242.90	481	382.70	163
97.10	261	170.70	259	244.00	6719	400.90	212
98.00	2850	171.80	303	245.00	898	402.00	306
99.10	3237	173.10	799	246.10	1119	403.00	361
100.10	191	174.10	994	247.10	479	420.80	515
101.10	1802	175.10	1080	247.60	278	422.10	230
103.10	791	176.10	603	248.80	422	422.90	2199
104.10	795	177.00	595	250.70	208	424.10	620
105.10	697	177.60	617	252.60	245	441.00	5248
105.70	251	179.10	2842	253.60	315	442.00	46072
107.00	12235	180.10	1998	255.00	44296	443.00	7681
108.10	1536	180.90	1327	256.10	5661	444.00	1055
109.10	670	183.40	224	256.80	459	475.00	248
110.10	17424	184.10	220	258.00	3829		
111.00	3940	185.00	1287	259.10	709		
112.20	440	186.10	9570	260.90	205		
116.20	866	187.10	2436	265.00	1167		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 04-APR-2013 11:33  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.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				
7.298	7.469	-0.171	198	91280			50.00-	0.00	100.00
7.298	7.469	-0.171	51	34280			10.00-	80.00	37.55
7.298	7.469	-0.171	68	802			0.00-	2.00	1.86
7.298	7.469	-0.171	69	43144			0.00-	0.00	47.27
7.298	7.469	-0.171	70	246			0.00-	2.00	0.57
7.298	7.469	-0.171	127	44344			10.00-	80.00	48.58
7.298	7.469	-0.171	197	589			0.00-	2.00	0.65
7.298	7.469	-0.171	442	67840			50.00-	0.00	74.32
7.298	7.469	-0.171	199	5540			5.00-	9.00	6.07
7.298	7.469	-0.171	275	21928			10.00-	60.00	24.02
7.298	7.469	-0.171	365	2867			1.00-	0.00	3.14
7.298	7.469	-0.171	441	9852			0.01-	99.99	81.68
7.298	7.469	-0.171	443	12062			15.00-	24.00	17.78

Data File: 1CD04002.D

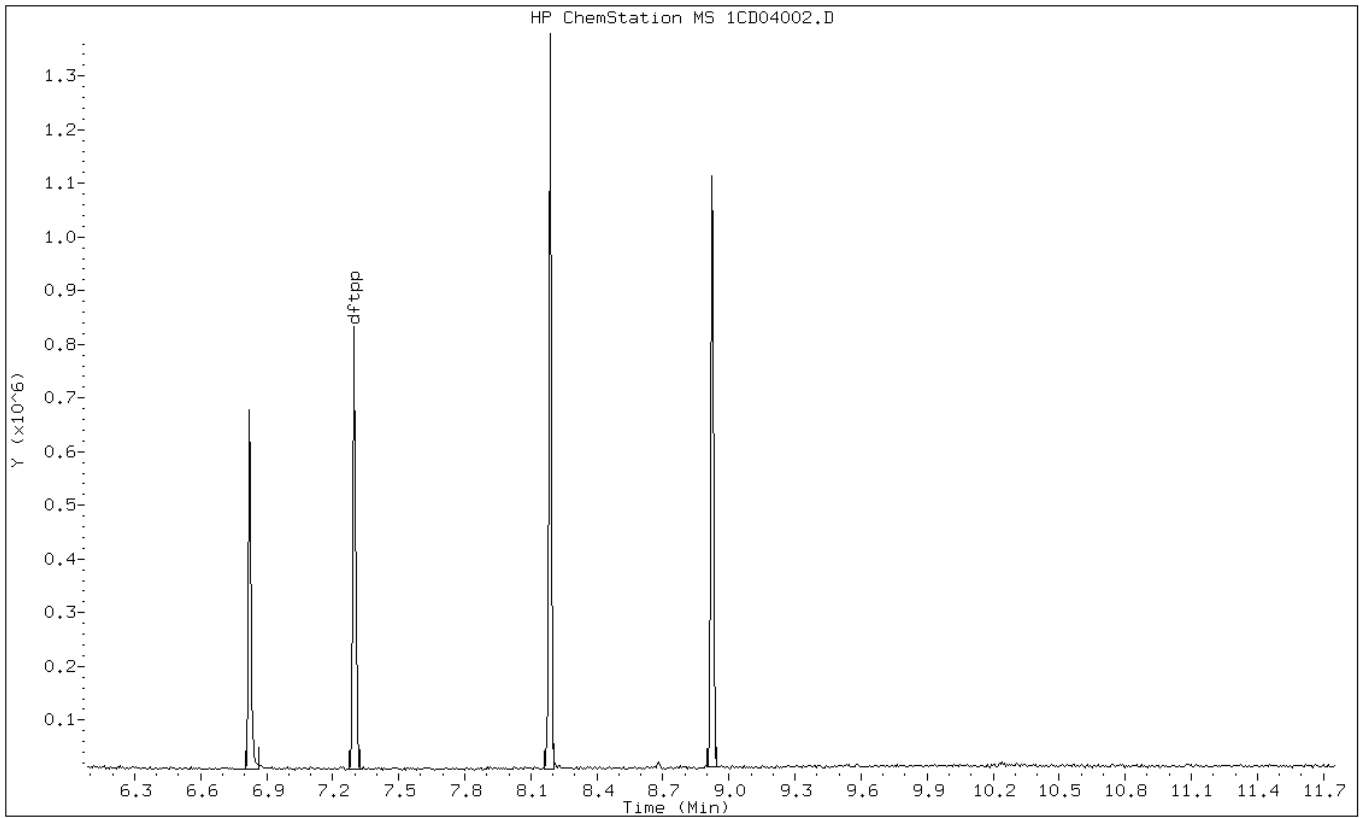
Date: 04-APR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD04002.D

Date: 04-APR-2013 11:33

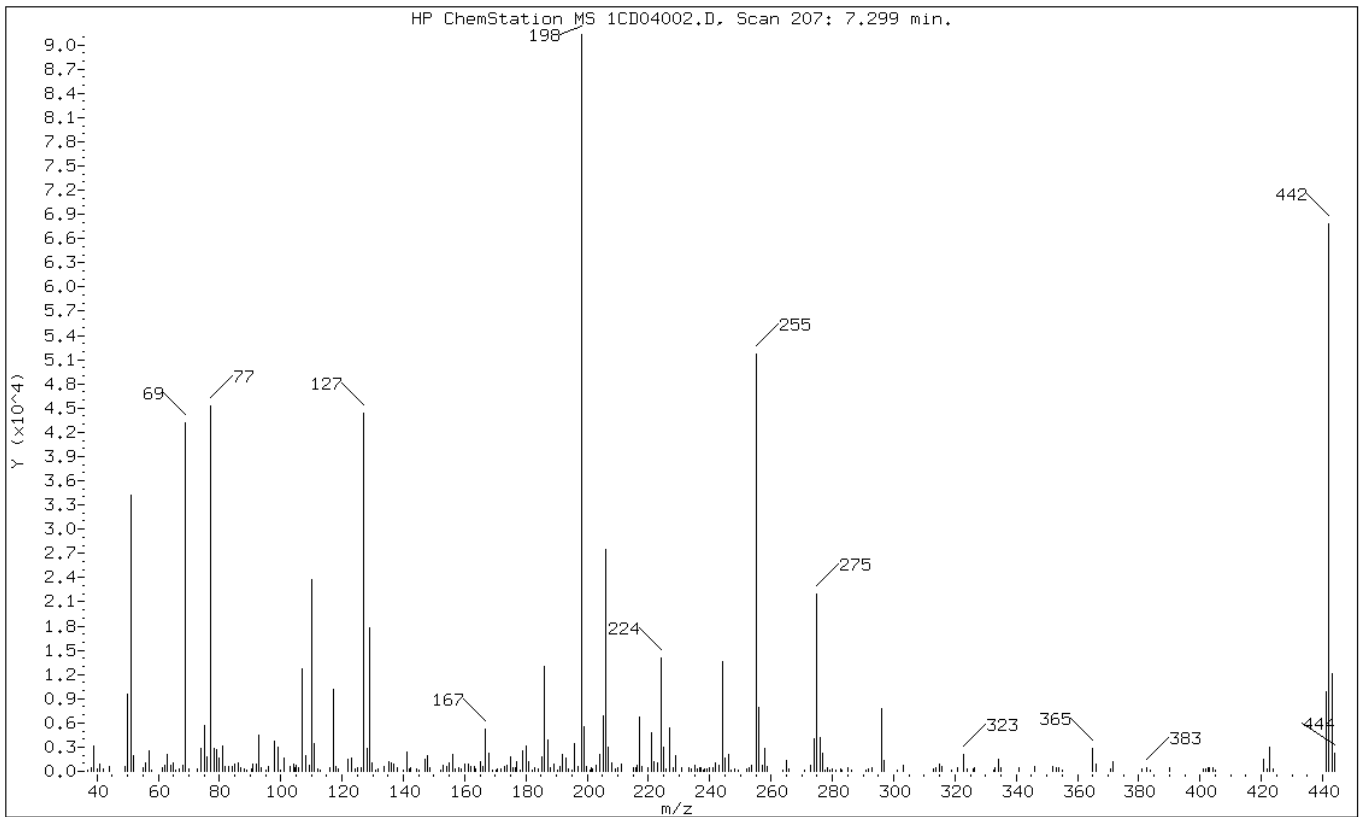
Client ID: DFTPP

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	37.55
68	Less than 2.00% of mass 69	0.88 ( 1.86)
69	Mass 69 relative abundance	47.27
70	Less than 2.00% of mass 69	0.27 ( 0.57)
127	10.00 - 80.00% of mass 198	48.58
197	Less than 2.00% of mass 198	0.65
442	Greater than 50.00% of mass 198	74.32
199	5.00 - 9.00% of mass 198	6.07
275	10.00 - 60.00% of mass 198	24.02
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	10.79
443	15.00 - 24.00% of mass 442	13.21 ( 17.78)

Data File: 1CD04002.D

Date: 04-APR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04002.D

Spectrum: HP ChemStation MS 1CD04002.D, Scan 207: 7.299 min.

Location of Maximum: 198.00

Number of points: 266

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	152	118.10	529	191.10	603	266.00	246
38.00	412	118.90	303	192.00	2056	270.90	152
39.10	3167	122.00	1466	193.00	1682	273.00	818
40.00	273	123.00	1580	194.00	337	274.00	3959
41.10	924	124.10	336	195.10	210	275.00	21928
42.30	240	125.00	391	196.00	3424	276.00	4135
44.10	596	126.10	436	196.90	589	277.00	2171
49.00	575	127.10	44344	198.00	91280	277.70	205
50.10	9600	128.10	2867	199.00	5540	278.20	476
51.10	34280	129.10	17776	199.90	572	279.10	195
52.10	1870	129.90	1061	200.80	213	279.80	373
54.90	513	130.90	213	201.40	460	281.00	221
56.00	1058	131.90	322	201.80	314	282.80	267
57.10	2566	133.90	535	203.00	716	283.30	154
58.00	183	135.10	1255	204.10	2153	285.10	415
61.20	423	136.00	1033	205.10	6835	286.10	217
62.10	758	136.90	861	206.10	27472	290.90	164
63.10	2026	137.90	448	207.00	2998	291.90	244
64.00	750	140.10	197	208.00	1108	293.10	384
65.10	1044	141.00	2403	209.00	371	296.00	7827
65.80	220	142.00	320	210.10	457	296.90	1317
66.90	348	142.50	483	211.10	873	301.00	180
68.10	802	144.20	327	215.10	477	303.00	790
69.00	43144	145.30	184	215.70	518	313.00	289
70.00	246	147.00	1426	216.20	747	313.90	427
72.90	258	148.00	2005	217.00	6793	315.00	838
74.00	2781	148.80	462	218.00	577	315.90	589
75.10	5664	152.00	170	219.80	461	318.80	183
76.00	1744	153.00	734	221.00	4710	320.90	402
77.10	45208	154.10	659	221.60	1153	323.00	2127
78.10	2910	155.10	1060	223.00	1063	323.90	309
79.00	2655	156.00	2024	224.10	14028	326.00	352
80.00	1646	157.00	257	225.00	3037	326.40	391
80.90	3183	158.10	474	225.90	328	332.50	198
81.90	573	159.00	336	227.00	5364	333.00	376
83.00	620	160.00	917	228.10	484	334.10	1488
84.10	546	161.10	862	229.00	1933	334.90	445
85.10	831	162.00	575	230.90	518	340.80	497
86.00	1014	163.20	666	233.10	417	346.10	547
87.10	471	163.60	254	234.00	294	351.90	578

88.00	288	165.10	1154	235.10	766	352.90	437
88.90	150	166.10	672	236.10	369	353.90	453
90.30	355	166.90	5170	236.70	374	355.00	178
90.90	969	168.10	2193	237.10	413	364.90	2867
92.00	962	169.00	166	237.90	222	366.00	934
+-----+-----+-----+-----+-----+-----+-----+-----+							
93.00	4427	170.10	166	238.20	250	370.70	233
93.80	468	170.80	270	239.10	245	371.70	1223
95.00	187	172.00	308	239.90	463	380.90	272
96.10	603	173.10	592	241.00	455	382.70	414
98.10	3800	174.00	690	242.00	985	383.90	170
+-----+-----+-----+-----+-----+-----+-----+-----+							
99.10	3028	175.10	1761	243.10	806	389.90	401
100.00	165	175.80	402	244.10	13630	401.10	282
101.10	1608	176.50	426	245.00	1704	401.80	351
103.00	637	177.00	1227	246.00	2114	402.50	376
104.10	900	178.00	206	247.10	171	403.00	405
+-----+-----+-----+-----+-----+-----+-----+-----+							
104.80	514	179.00	2574	248.10	244	404.00	375
105.20	766	180.20	3073	249.20	185	404.90	157
105.90	456	181.00	1142	251.90	237	420.90	1442
107.00	12717	182.10	217	252.70	383	421.90	364
108.10	1934	183.00	455	253.80	805	422.80	3047
+-----+-----+-----+-----+-----+-----+-----+-----+							
109.20	808	183.90	303	255.00	51728	424.00	330
110.00	23736	185.10	1864	256.00	7944	441.00	9852
111.10	3381	186.00	12966	257.20	708	442.00	67840
112.20	346	187.00	3887	258.00	2831	443.00	12062
113.00	150	188.00	433	258.80	533	443.90	2274
+-----+-----+-----+-----+-----+-----+-----+-----+							
116.00	512	189.00	910	263.80	154		
117.10	10089	190.20	193	264.90	1292		
+-----+-----+-----+-----+-----+-----+-----+-----+							

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136063/1-A  
 Matrix: Solid Lab File ID: 1CD03015.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.99(g) Date Analyzed: 04/03/2013 15:34  
 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.: 136081 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	80		30-130



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03015.D  
 Lab Smp Id: mb 660-136063/1-a  
 Inj Date : 03-APR-2013 15:34  
 Operator : SCC  
 Smp Info : mb 660-136063/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 15 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.704	(1.000)	646271	40.0000	
* 6 Acenaphthene-d10	164		4.798	4.792	(1.000)	483289	40.0000	
* 10 Phenanthrene-d10	188		5.745	5.739	(1.000)	879169	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.043)	104839	8.03116	535.7676
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	990236	40.0000	
* 23 Perylene-d12	264		8.856	8.851	(1.000)	958431	40.0000	

Data File: 1CD03015.D

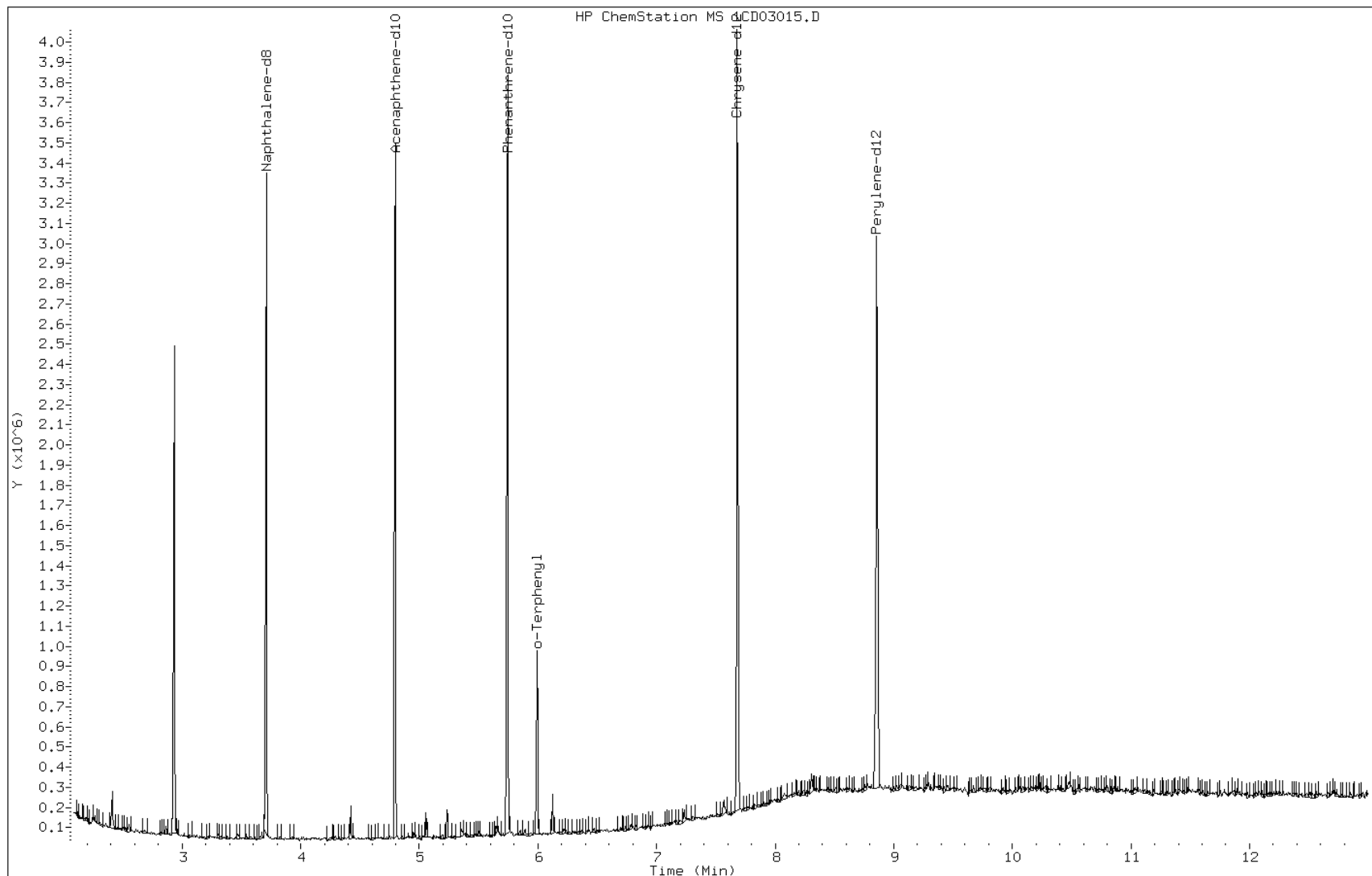
Date: 03-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136063/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-136072/1-A  
 Matrix: Solid Lab File ID: 1CD04017.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.17(g) Date Analyzed: 04/04/2013 16:07  
 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.: 136131 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	4.9
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	5.1
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	4.4
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	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04017.D  
 Lab Smp Id: mb 660-136072/1-a  
 Inj Date : 04-APR-2013 16:07  
 Operator : SCC  
 Smp Info : mb 660-136072/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 17 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	15.170	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)	448957	40.0000	
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	350129	40.0000	
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	699563	40.0000	
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	91545	8.74260	576.3083
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	829418	40.0000	
* 23 Perylene-d12	264		8.868	8.886	(1.000)	791436	40.0000	

Data File: 1CD04017.D

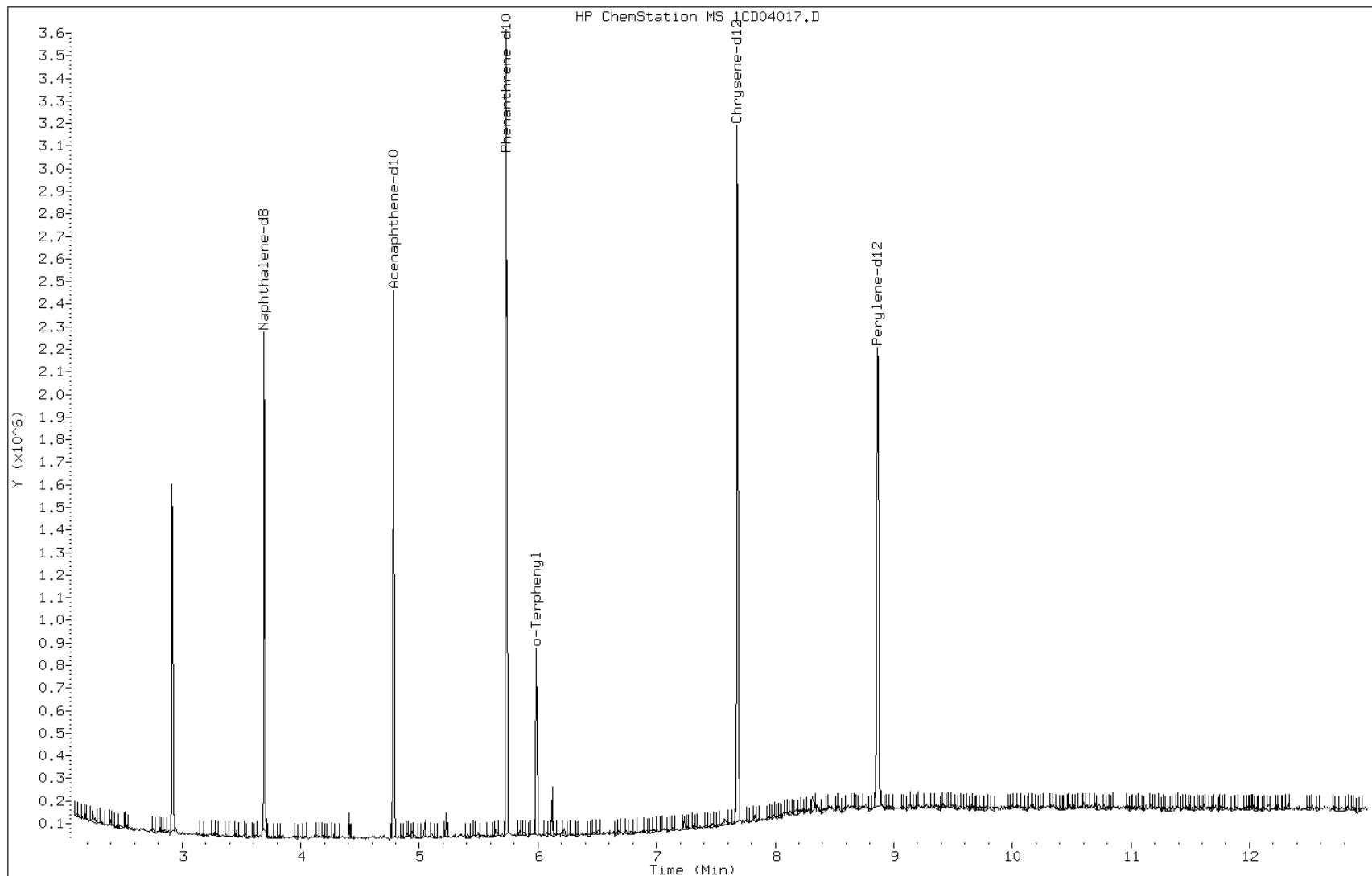
Date: 04-APR-2013 16:07

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136072/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136063/2-A  
 Matrix: Solid Lab File ID: 1CD03016.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.97(g) Date Analyzed: 04/03/2013 15:52  
 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.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	458		100	20
208-96-8	Acenaphthylene	488		40	5.0
120-12-7	Anthracene	469		8.4	4.2
56-55-3	Benzo[a]anthracene	484		8.0	3.9
50-32-8	Benzo[a]pyrene	444		10	5.2
205-99-2	Benzo[b]fluoranthene	516		12	6.1
191-24-2	Benzo[g,h,i]perylene	418		20	4.4
207-08-9	Benzo[k]fluoranthene	468		8.0	3.6
218-01-9	Chrysene	462		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	471		20	4.1
206-44-0	Fluoranthene	487		20	4.0
86-73-7	Fluorene	444		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	399		20	7.1
90-12-0	1-Methylnaphthalene	522		40	4.4
91-57-6	2-Methylnaphthalene	458		40	7.1
91-20-3	Naphthalene	484		40	4.4
85-01-8	Phenanthrene	499		8.0	3.9
129-00-0	Pyrene	516		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03016.D  
 Lab Smp Id: lcs 660-136063/2-a  
 Inj Date : 03-APR-2013 15:52  
 Operator : SCC  
 Smp Info : lcs 660-136063/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 16 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	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.710	3.704	(1.000)	631468	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	487717	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	877192	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	92529	7.18786	480.1508
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	995572	40.0000	
* 23 Perylene-d12	264		8.851	8.851	(1.000)	964341	40.0000	
2 Naphthalene	128		3.722	3.722	(1.003)	117544	7.24725	484.1181
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	75697	6.85623	457.9979
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	77643	7.81557	522.0820
5 Acenaphthylene	152		4.710	4.704	(0.983)	147518	7.30815	488.1862
7 Acenaphthene	154		4.816	4.816	(1.005)	85784	6.86151	458.3506
9 Fluorene	166		5.133	5.133	(1.071)	110785	6.64710	444.0278
11 Phenanthrene	178		5.757	5.757	(1.003)	190897	7.47212	499.1395
12 Anthracene	178		5.792	5.792	(1.009)	181998	7.02747	469.4369

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	177248	7.98844	533.6301
15 Fluoranthene	202	6.592	6.592	(1.149)	205854	7.29605	487.3779
16 Pyrene	202	6.757	6.757	(0.880)	212934	7.72112	515.7731
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	204915	7.23923	483.5827
19 Chrysene	228	7.698	7.698	(1.002)	196071	6.91134	461.6795
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	210472	7.72013	515.7070
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	184760	7.00698	468.0684
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	170578	6.64575	443.9378
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	145625	5.97338	399.0232(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	158866	7.05430	471.2290
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	155744	6.25938	418.1284

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CD03016.D

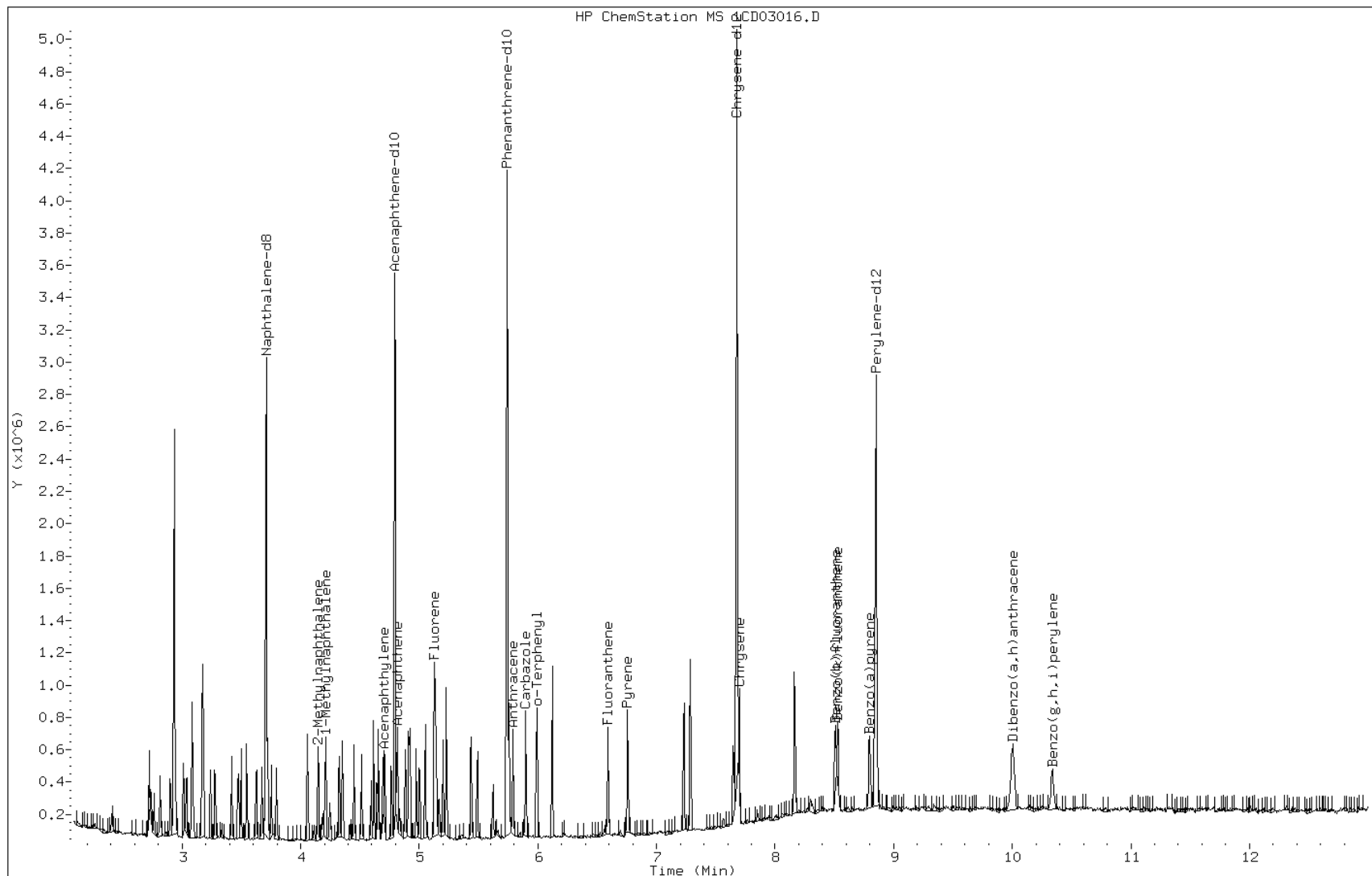
Date: 03-APR-2013 15:52

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136063/2-a

Operator: SCC

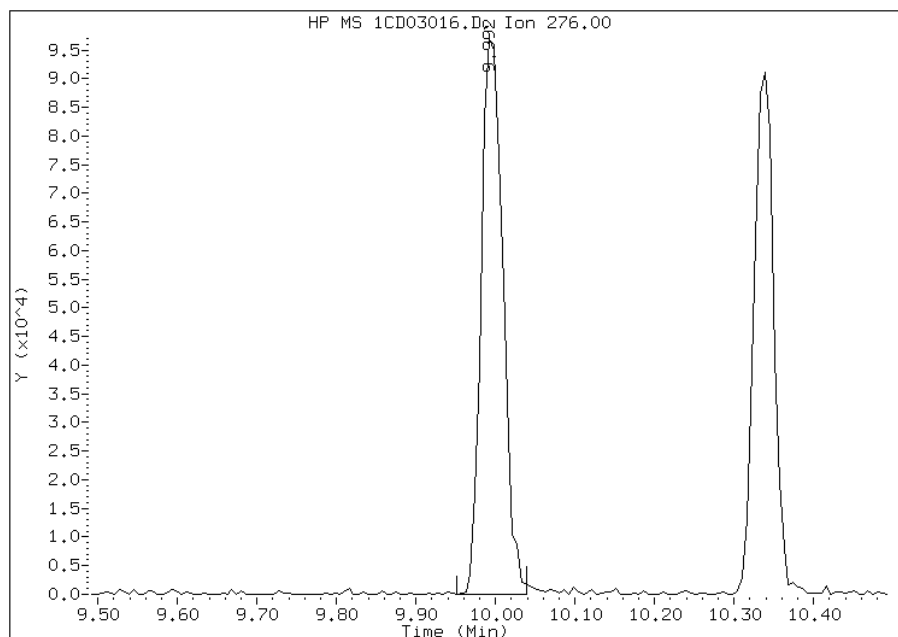


# Manual Integration Report

Data File: 1CD03016.D  
Inj. Date and Time: 03-APR-2013 15:52  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/04/2013

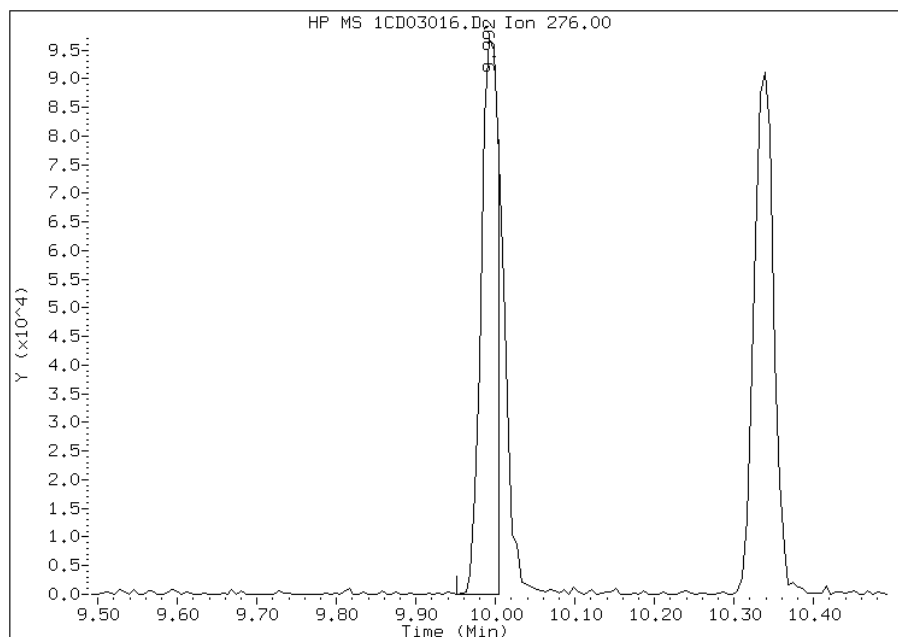
## Processing Integration Results

RT: 9.99  
Response: 182593  
Amount: 7  
Conc: 500



## Manual Integration Results

RT: 9.99  
Response: 145625  
Amount: 6  
Conc: 399



Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 15:32  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-136072/2-A  
 Matrix: Solid Lab File ID: 1CD04018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.21(g) Date Analyzed: 04/04/2013 16:25  
 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.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	472		99	20
208-96-8	Acenaphthylene	556		39	4.9
120-12-7	Anthracene	514		8.3	4.1
56-55-3	Benzo[a]anthracene	596		7.9	3.8
50-32-8	Benzo[a]pyrene	519		10	5.1
205-99-2	Benzo[b]fluoranthene	559		12	6.0
191-24-2	Benzo[g,h,i]perylene	504		20	4.3
207-08-9	Benzo[k]fluoranthene	551		7.9	3.6
218-01-9	Chrysene	564		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	538		20	4.0
206-44-0	Fluoranthene	599		20	3.9
86-73-7	Fluorene	514		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	486		20	7.0
90-12-0	1-Methylnaphthalene	656		39	4.3
91-57-6	2-Methylnaphthalene	536		39	7.0
91-20-3	Naphthalene	565		39	4.3
85-01-8	Phenanthrene	552		7.9	3.8
129-00-0	Pyrene	602		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04018.D  
 Lab Smp Id: lcs 660-136072/2-a  
 Inj Date : 04-APR-2013 16:25  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-136072/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 18 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	437243	40.0000		
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	353803	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	720796	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	84660	7.92122	520.7905	
* 18 Chrysene-d12	240		7.680	7.692	(1.000)	841673	40.0000		
* 23 Perylene-d12	264		8.868	8.886	(1.000)	849313	40.0000		
2 Naphthalene	128		3.710	3.710	(1.005)	96585	8.60025	565.4336	
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	62274	8.14595	535.5656	
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	68681	9.98443	656.4386	
5 Acenaphthylene	152		4.698	4.698	(0.982)	123740	8.45043	555.5838	
7 Acenaphthene	154		4.804	4.804	(1.004)	65116	7.17972	472.0393	
9 Fluorene	166		5.121	5.127	(1.070)	94496	7.81575	513.8562	
11 Phenanthrene	178		5.751	5.751	(1.003)	176376	8.40169	552.3791	
12 Anthracene	178		5.786	5.786	(1.009)	166414	7.81996	514.1328	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898	(1.028)	157875	8.65917	569.3079
15 Fluoranthene	202	6.586	6.592	(1.149)	211306	9.11428	599.2296
16 Pyrene	202	6.757	6.763	(0.880)	213384	9.15222	601.7240
17 Benzo(a)anthracene	228	7.674	7.686	(0.999)	217874	9.06950	596.2854
19 Chrysene	228	7.704	7.710	(1.003)	205577	8.57142	563.5385
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.961)	204139	8.50197	558.9721
21 Benzo(k)fluoranthene	252	8.539	8.557	(0.963)	194610	8.38014	550.9624
22 Benzo(a)pyrene	252	8.809	8.827	(0.993)	178435	7.89339	518.9608
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.056	(1.130)	158779	7.39503	486.1952(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.074	(1.132)	162217	8.17866	537.7159
26 Benzo(g,h,i)perylene	276	10.368	10.415	(1.169)	167840	7.65911	503.5578(H)

QC Flag Legend

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

Data File: 1CD04018.D

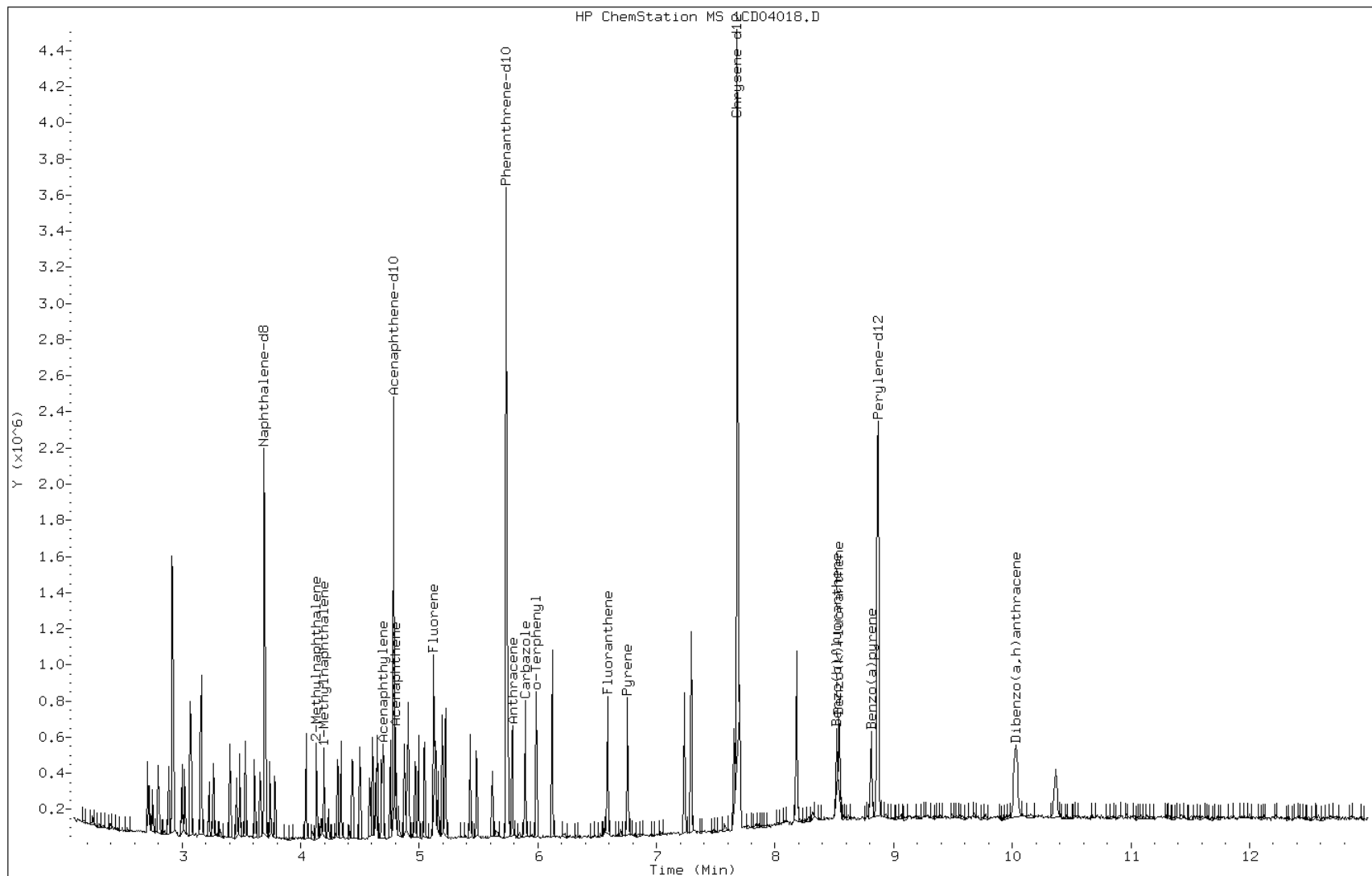
Date: 04-APR-2013 16:25

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136072/2-a

Operator: SCC

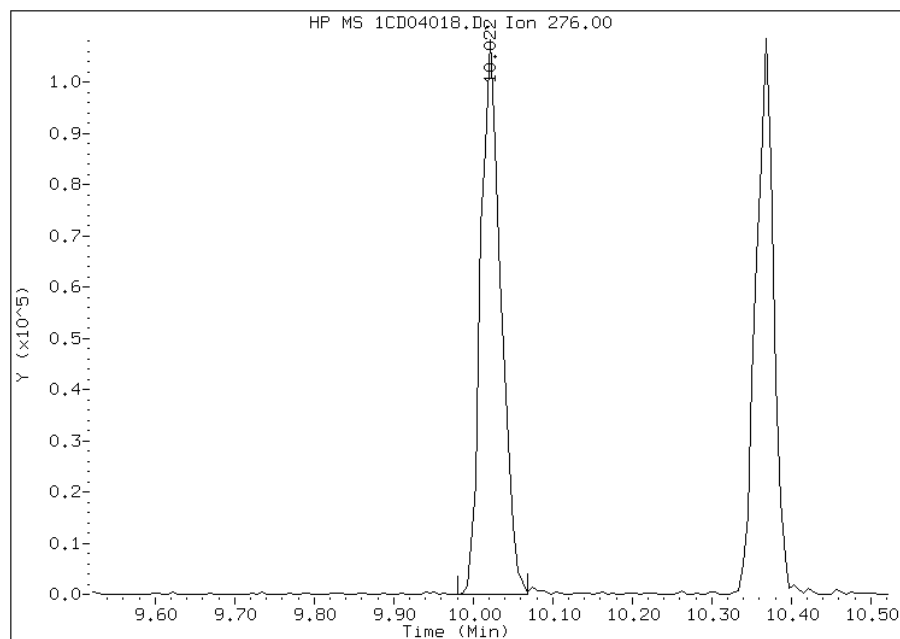


# Manual Integration Report

Data File: 1CD04018.D  
Inj. Date and Time: 04-APR-2013 16:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

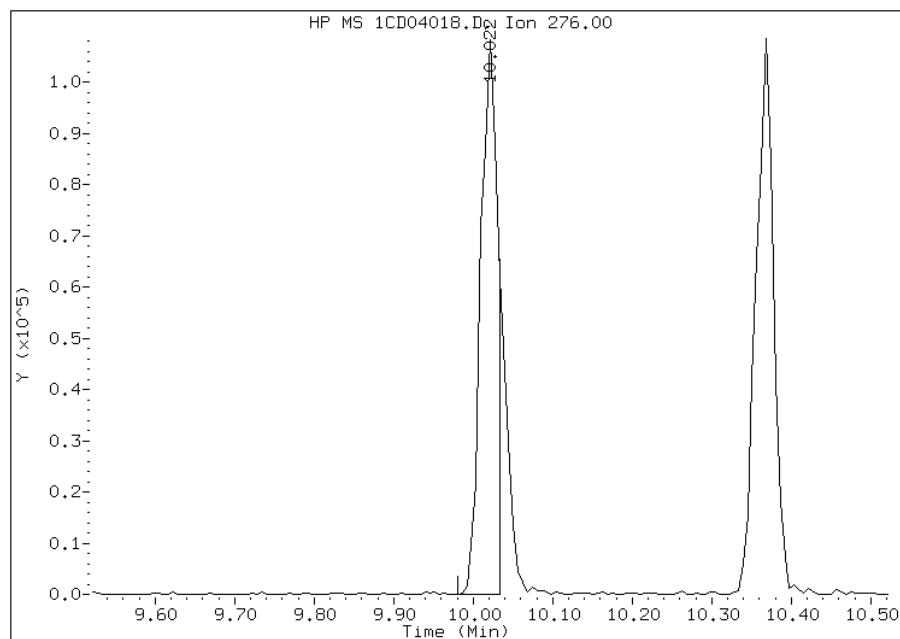
## Processing Integration Results

RT: 10.02  
Response: 190467  
Amount: 9  
Conc: 583



## Manual Integration Results

RT: 10.02  
Response: 158779  
Amount: 7  
Conc: 486



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 13:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88766-A-21-E MS  
 Matrix: Solid Lab File ID: 1CD03018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 15.32 (g) Date Analyzed: 04/03/2013 16:29  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 26.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	656		530	110
208-96-8	Acenaphthylene	626		210	27
120-12-7	Anthracene	666		45	22
56-55-3	Benzo[a]anthracene	833		42	21
50-32-8	Benzo[a]pyrene	650		55	28
205-99-2	Benzo[b]fluoranthene	738		65	32
191-24-2	Benzo[g,h,i]perylene	623		110	23
207-08-9	Benzo[k]fluoranthene	667		42	19
218-01-9	Chrysene	780		48	24
53-70-3	Dibenz(a,h)anthracene	622		110	22
206-44-0	Fluoranthene	697		110	21
86-73-7	Fluorene	639		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	532		110	38
90-12-0	1-Methylnaphthalene	653		210	23
91-57-6	2-Methylnaphthalene	653		210	38
91-20-3	Naphthalene	681		210	23
85-01-8	Phenanthrene	690		42	21
129-00-0	Pyrene	750		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03018.D  
 Lab Smp Id: 680-88766-a-21-e ms  
 Inj Date : 03-APR-2013 16:29  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88766-a-21-e ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 18 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	15.320	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			3.710	3.704	(1.000)	604618	40.0000	
* 6 Acenaphthene-d10	164			4.792	4.792	(1.000)	447317	40.0000	
* 10 Phenanthrene-d10	188			5.739	5.739	(1.000)	819020	40.0000	
\$ 14 o-Terphenyl	230			5.992	5.992	(1.044)	20991	2.29558	599.3677
* 18 Chrysene-d12	240			7.680	7.680	(1.000)	882360	40.0000	
* 23 Perylene-d12	264			8.851	8.851	(1.000)	885344	40.0000	
2 Naphthalene	128			3.721	3.722	(1.003)	29924	1.92692	503.1110
3 2-Methylnaphthalene	142			4.145	4.145	(1.117)	19529	1.84738	482.3454
4 1-Methylnaphthalene	142			4.210	4.210	(1.135)	17586	1.84882	482.7217
5 Acenaphthylene	152			4.704	4.704	(0.982)	32783	1.77078	462.3434
7 Acenaphthene	154			4.815	4.816	(1.005)	21291	1.85679	484.8005
9 Fluorene	166			5.133	5.133	(1.071)	27627	1.80733	471.8875
11 Phenanthrene	178			5.757	5.757	(1.003)	46547	1.95136	509.4924
12 Anthracene	178			5.792	5.792	(1.009)	45559	1.88411	491.9353

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	41473	2.00192	522.6941
15 Fluoranthene	202	6.592	6.592	(1.149)	51944	1.97180	514.8315
16 Pyrene	202	6.757	6.757	(0.880)	51906	2.12364	554.4739
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	56786	2.35675	615.3405
19 Chrysene	228	7.698	7.698	(1.002)	55519	2.20809	576.5258
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	52279	2.08870	545.3529
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	45683	1.88711	492.7170
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	43357	1.83992	480.3966
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	33696	1.50550	393.0811(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	36413	1.76116	459.8320(M)
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	40267	1.76274	460.2452(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03018.D

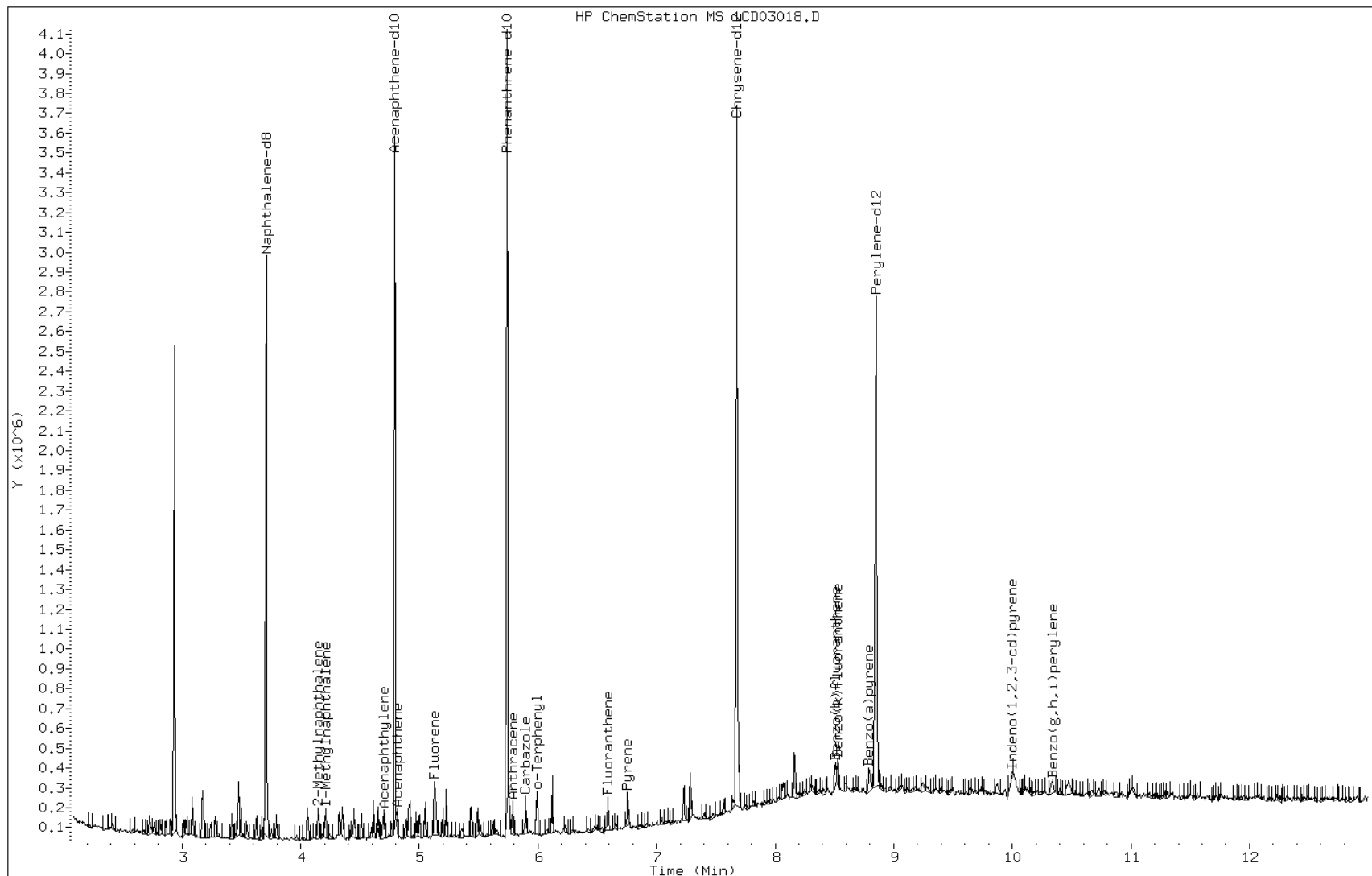
Date: 03-APR-2013 16:29

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-e ms

Operator: SCC

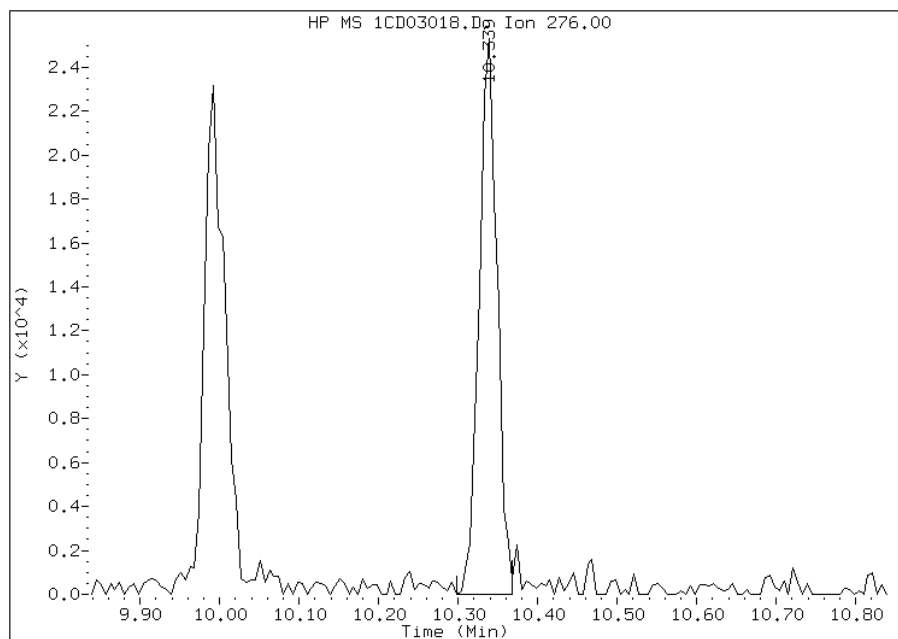


# Manual Integration Report

Data File: 1CD03018.D  
Inj. Date and Time: 03-APR-2013 16:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/04/2013

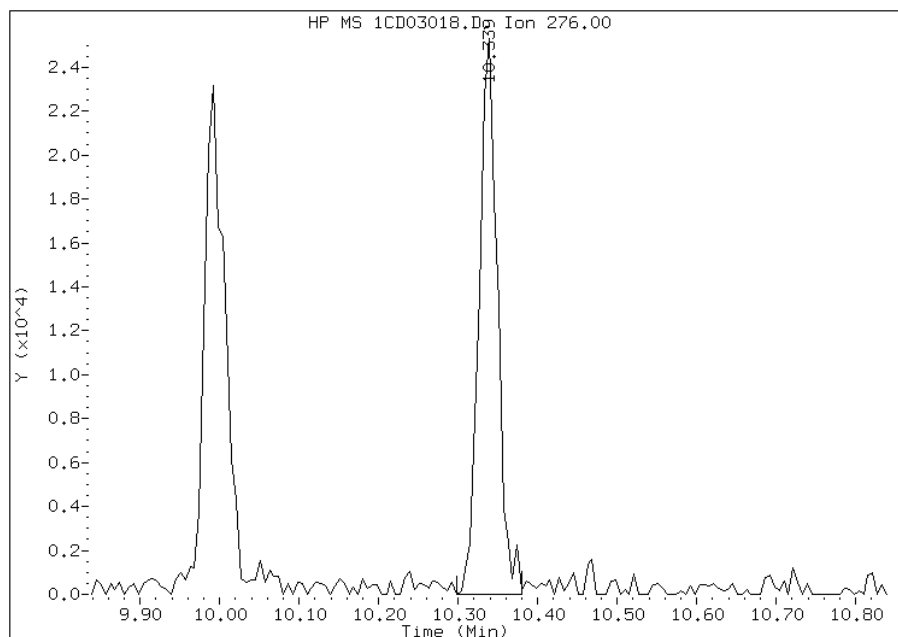
## Processing Integration Results

RT: 10.34  
Response: 39429  
Amount: 2  
Conc: 451



## Manual Integration Results

RT: 10.34  
Response: 40267  
Amount: 2  
Conc: 460



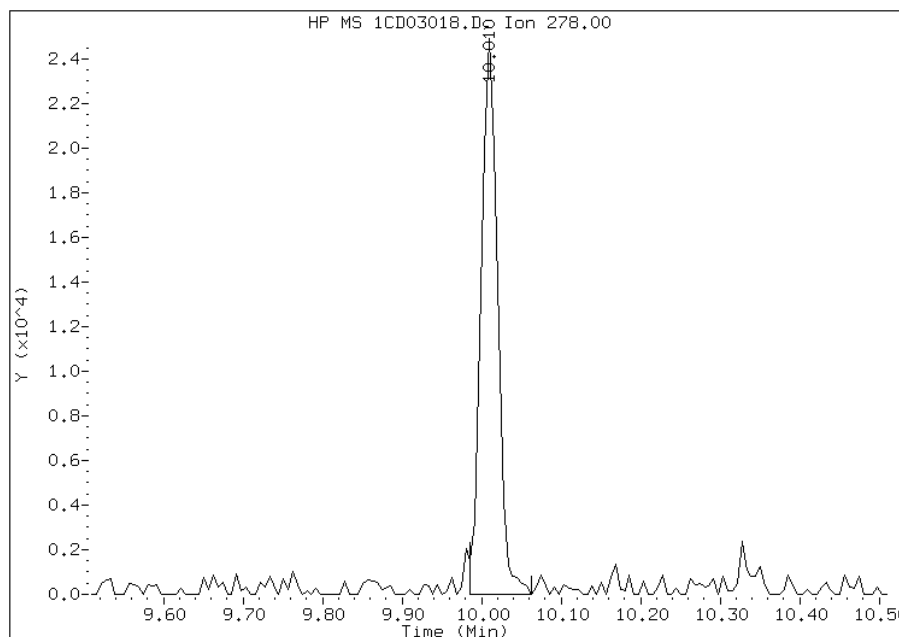
Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 15:34  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03018.D  
Inj. Date and Time: 03-APR-2013 16:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/04/2013

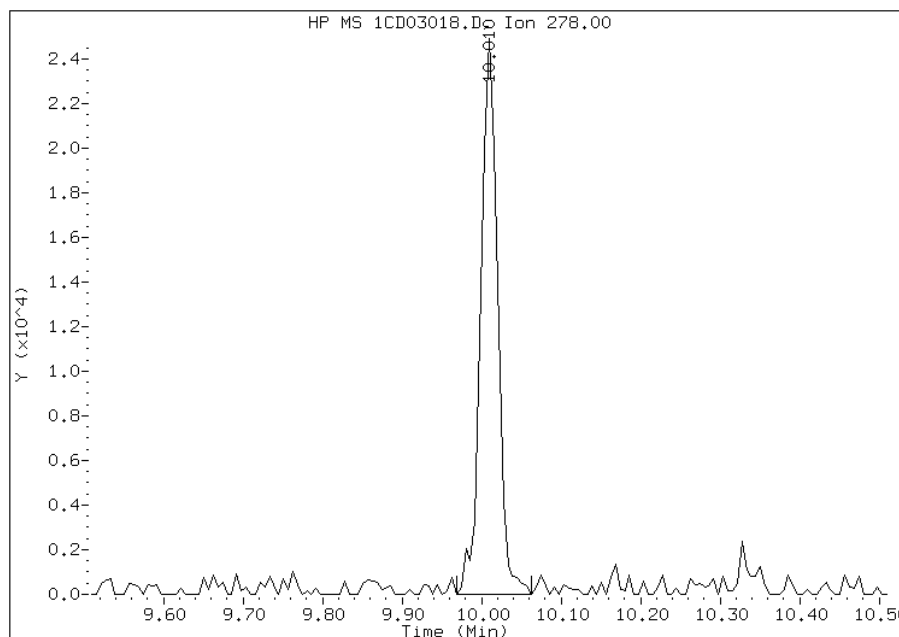
## Processing Integration Results

RT: 10.01  
Response: 35621  
Amount: 2  
Conc: 450



## Manual Integration Results

RT: 10.01  
Response: 36413  
Amount: 2  
Conc: 460



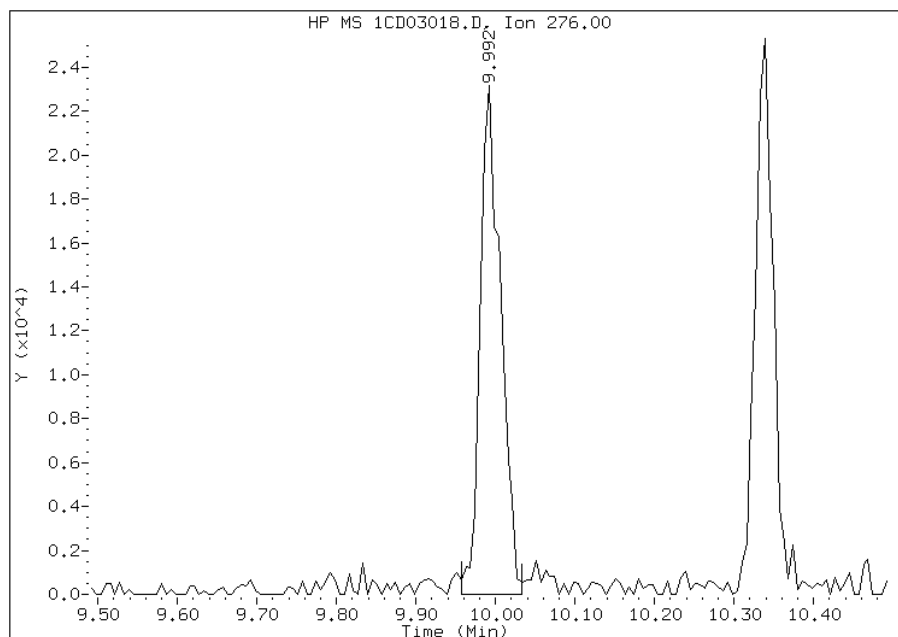
Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 15:34  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD03018.D  
Inj. Date and Time: 03-APR-2013 16:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/04/2013

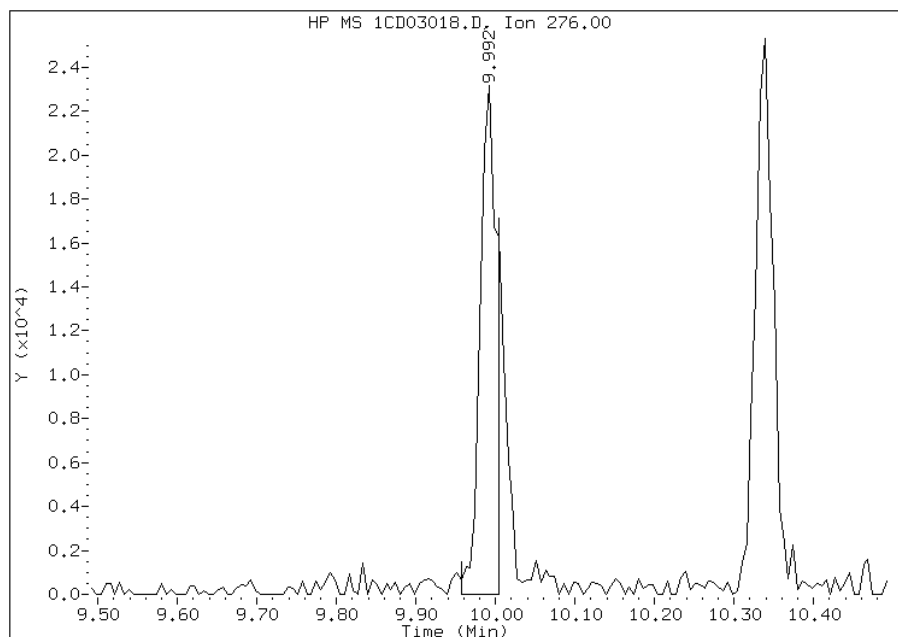
## Processing Integration Results

RT: 9.99  
Response: 41575  
Amount: 2  
Conc: 485



## Manual Integration Results

RT: 9.99  
Response: 33696  
Amount: 2  
Conc: 393



Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 15:34  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509F-CS MS Lab Sample ID: 680-88767-14 MS  
 Matrix: Solid Lab File ID: 1CD04026.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:55  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.02(g) Date Analyzed: 04/04/2013 18:52  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	609		130	25
208-96-8	Acenaphthylene	665		50	6.3
120-12-7	Anthracene	644		11	5.3
56-55-3	Benzo[a]anthracene	903		10	4.9
50-32-8	Benzo[a]pyrene	833		13	6.6
205-99-2	Benzo[b]fluoranthene	937		15	7.7
191-24-2	Benzo[g,h,i]perylene	760		25	5.5
207-08-9	Benzo[k]fluoranthene	973		10	4.5
218-01-9	Chrysene	959		11	5.7
53-70-3	Dibenz(a,h)anthracene	673		25	5.2
206-44-0	Fluoranthene	1080		25	5.0
86-73-7	Fluorene	622		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	712		25	9.0
90-12-0	1-Methylnaphthalene	740		50	5.5
91-57-6	2-Methylnaphthalene	680		50	9.0
91-20-3	Naphthalene	663		50	5.5
85-01-8	Phenanthrene	823		10	4.9
129-00-0	Pyrene	1080		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04026.D  
 Lab Smp Id: 680-88767-a-14-b ms  
 Inj Date : 04-APR-2013 18:52  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-14-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 26 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.692	3.692	(1.000)	493002	40.0000		
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	395089	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	785200	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	80340	6.99393	465.6414	
* 18 Chrysene-d12	240		7.686	7.692	(1.000)	876742	40.0000		
* 23 Perylene-d12	264		8.862	8.886	(1.000)	833239	40.0000	(H)	
2 Naphthalene	128		3.710	3.710	(1.005)	99920	7.89092	525.3610	
3 2-Methylnaphthalene	142		4.133	4.133	(1.119)	69696	8.08569	538.3283	
4 1-Methylnaphthalene	142		4.198	4.198	(1.137)	68308	8.80709	586.3576	
5 Acenaphthylene	152		4.698	4.698	(0.982)	129413	7.91431	526.9182	
7 Acenaphthene	154		4.804	4.804	(1.004)	73351	7.24256	482.1946	
9 Fluorene	166		5.121	5.127	(1.070)	99997	7.40647	493.1068	
11 Phenanthrene	178		5.751	5.751	(1.003)	223959	9.79327	652.0150	
12 Anthracene	178		5.786	5.786	(1.009)	177718	7.66617	510.3972	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898	(1.028)	167151	8.41597	560.3175
15 Fluoranthene	202	6.586	6.592	(1.149)	323974	12.8278	854.0494
16 Pyrene	202	6.756	6.763	(0.879)	311411	12.8224	853.6903
17 Benzo(a)anthracene	228	7.674	7.686	(0.998)	269438	10.7420	715.1764
19 Chrysene	228	7.703	7.710	(1.002)	285172	11.4145	759.9532
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.962)	262652	11.1499	742.3391(H)
21 Benzo(k)fluoranthene	252	8.539	8.557	(0.963)	263847	11.5807	771.0214(H)
22 Benzo(a)pyrene	252	8.809	8.827	(0.994)	219773	9.90960	659.7605
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.056	(1.131)	178359	8.46721	563.7287(MH)
25 Dibenzo(a,h)anthracene	278	10.039	10.074	(1.133)	155857	8.00959	533.2616(H)
26 Benzo(g,h,i)perylene	276	10.368	10.415	(1.170)	194336	9.03929	601.8172(H)

QC Flag Legend

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

Data File: 1CD04026.D

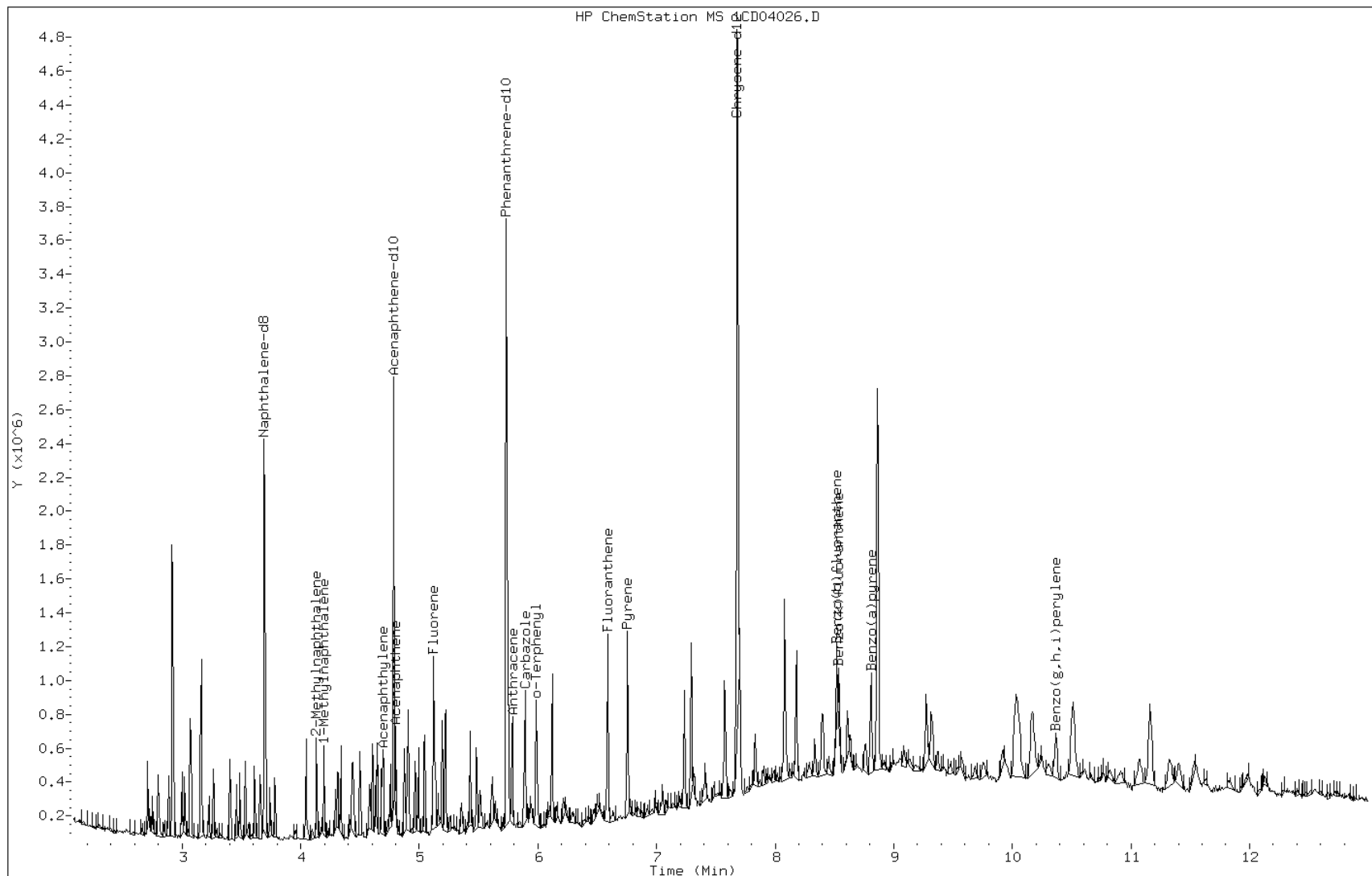
Date: 04-APR-2013 18:52

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-b ms

Operator: SCC

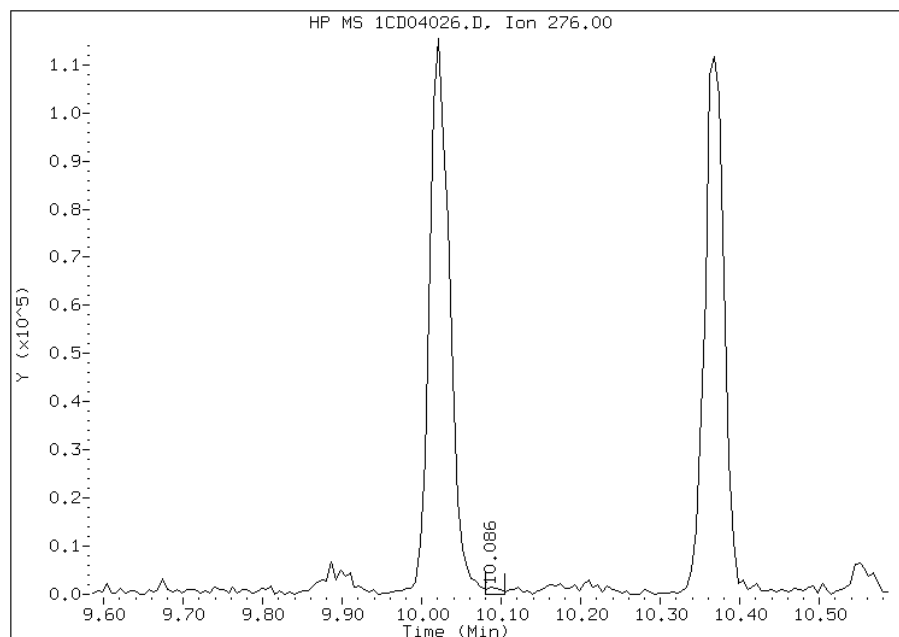


# Manual Integration Report

Data File: 1CD04026.D  
Inj. Date and Time: 04-APR-2013 18:52  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

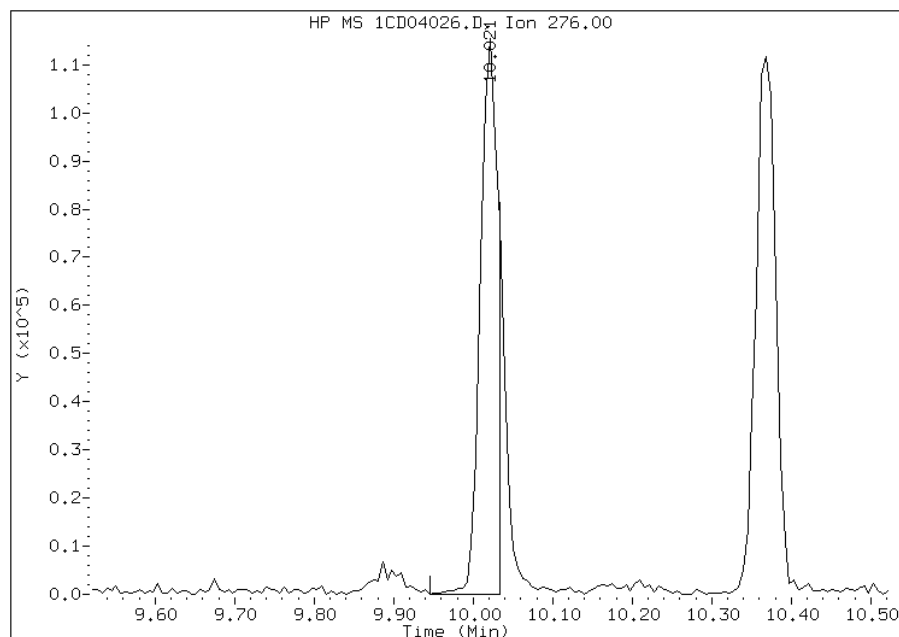
## Processing Integration Results

RT: 10.09  
Response: 1802  
Amount: 0  
Conc: 6



## Manual Integration Results

RT: 10.02  
Response: 178359  
Amount: 8  
Conc: 564



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:47  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88766-A-21-F MSD  
 Matrix: Solid Lab File ID: 1CD03019.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 04/02/2013 11:33  
 Sample wt/vol: 14.60 (g) Date Analyzed: 04/03/2013 16:47  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 26.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136081 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	669		560	110
208-96-8	Acenaphthylene	686		220	28
120-12-7	Anthracene	674		47	23
56-55-3	Benzo[a]anthracene	856		44	22
50-32-8	Benzo[a]pyrene	651		58	29
205-99-2	Benzo[b]fluoranthene	710		68	34
191-24-2	Benzo[g,h,i]perylene	618		110	24
207-08-9	Benzo[k]fluoranthene	822		44	20
218-01-9	Chrysene	739		50	25
53-70-3	Dibenz(a,h)anthracene	713		110	23
206-44-0	Fluoranthene	780		110	22
86-73-7	Fluorene	657		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	659		110	39
90-12-0	1-Methylnaphthalene	709		220	24
91-57-6	2-Methylnaphthalene	671		220	39
91-20-3	Naphthalene	648		220	24
85-01-8	Phenanthrene	758		44	22
129-00-0	Pyrene	878		110	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03019.D  
 Lab Smp Id: 680-88766-a-21-f ms  
 Inj Date : 03-APR-2013 16:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88766-a-21-f msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 19 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	14.600	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		3.710	3.704	(1.000)	599290	40.0000	
* 6 Acenaphthene-d10	164		4.792	4.792	(1.000)	437990	40.0000	
* 10 Phenanthrene-d10	188		5.739	5.739	(1.000)	801261	40.0000	
\$ 14 o-Terphenyl	230		5.992	5.992	(1.044)	22282	2.42909	665.5045
* 18 Chrysene-d12	240		7.680	7.680	(1.000)	885431	40.0000	
* 23 Perylene-d12	264		8.850	8.851	(1.000)	855561	40.0000	
2 Naphthalene	128		3.721	3.722	(1.003)	26909	1.74817	478.9516
3 2-Methylnaphthalene	142		4.145	4.145	(1.117)	18972	1.81065	496.0680
4 1-Methylnaphthalene	142		4.210	4.210	(1.135)	18036	1.91299	524.1069
5 Acenaphthylene	152		4.704	4.704	(0.982)	33560	1.85135	507.2185
7 Acenaphthene	154		4.815	4.816	(1.005)	20252	1.80379	494.1878
9 Fluorene	166		5.133	5.133	(1.071)	26513	1.77139	485.3117
11 Phenanthrene	178		5.757	5.757	(1.003)	47684	2.04333	559.8158
12 Anthracene	178		5.792	5.792	(1.009)	43006	1.81795	498.0687

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	40592	2.00282	548.7177
15 Fluoranthene	202	6.592	6.592	(1.149)	54214	2.10359	576.3252
16 Pyrene	202	6.756	6.757	(0.880)	58049	2.36673	648.4183
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	55755	2.30886	632.5654
19 Chrysene	228	7.698	7.698	(1.002)	50258	1.99192	545.7319
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	46327	1.91533	524.7488
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	51872	2.21736	607.4953
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	39958	1.75471	480.7413
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	38467	1.77849	487.2581(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	38424	1.92311	526.8807
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	36793	1.66673	456.6381

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD03019.D

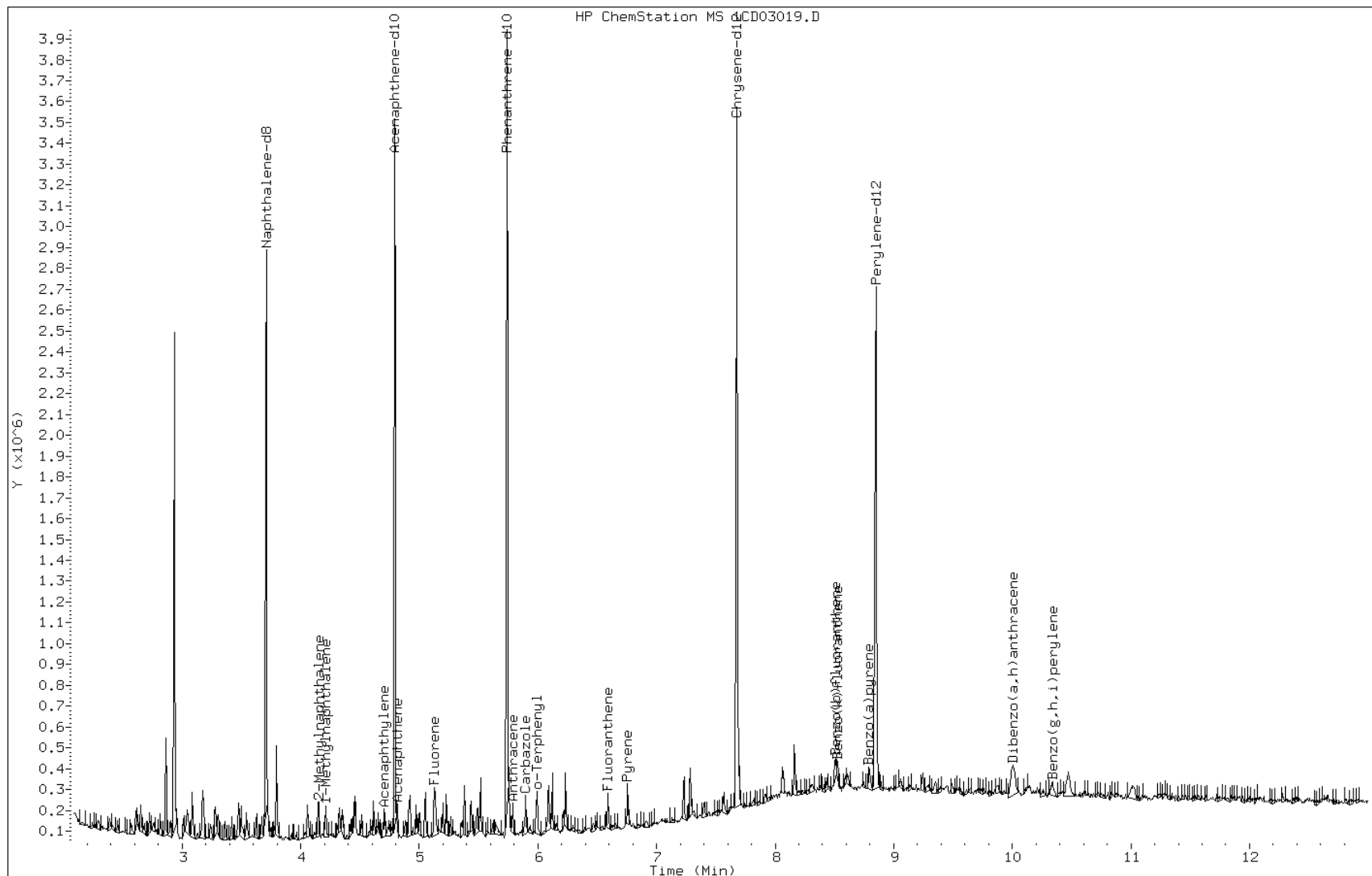
Date: 03-APR-2013 16:47

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-f msd

Operator: SCC

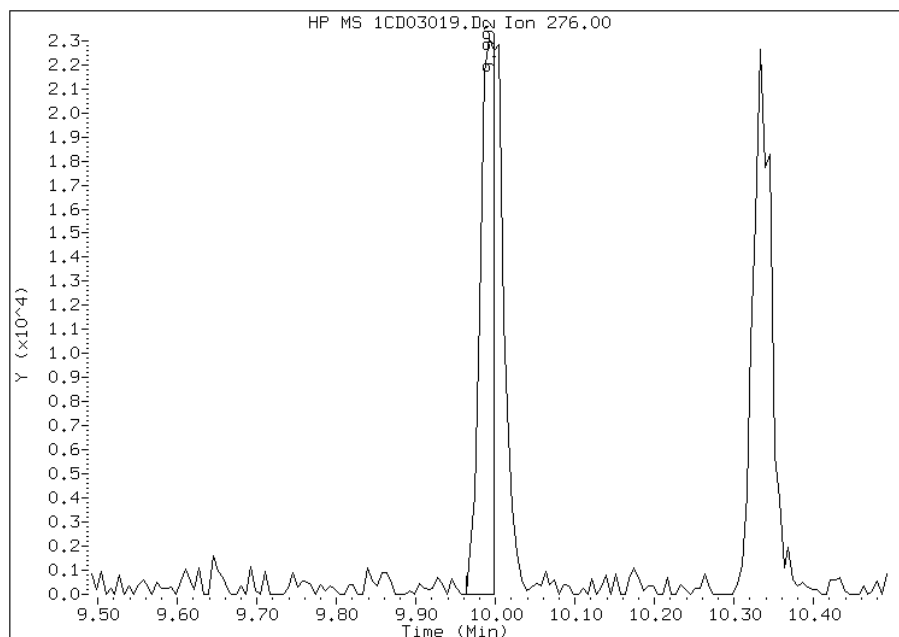


Manual Integration Report

Data File: 1CD03019.D  
Inj. Date and Time: 03-APR-2013 16:47  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/04/2013

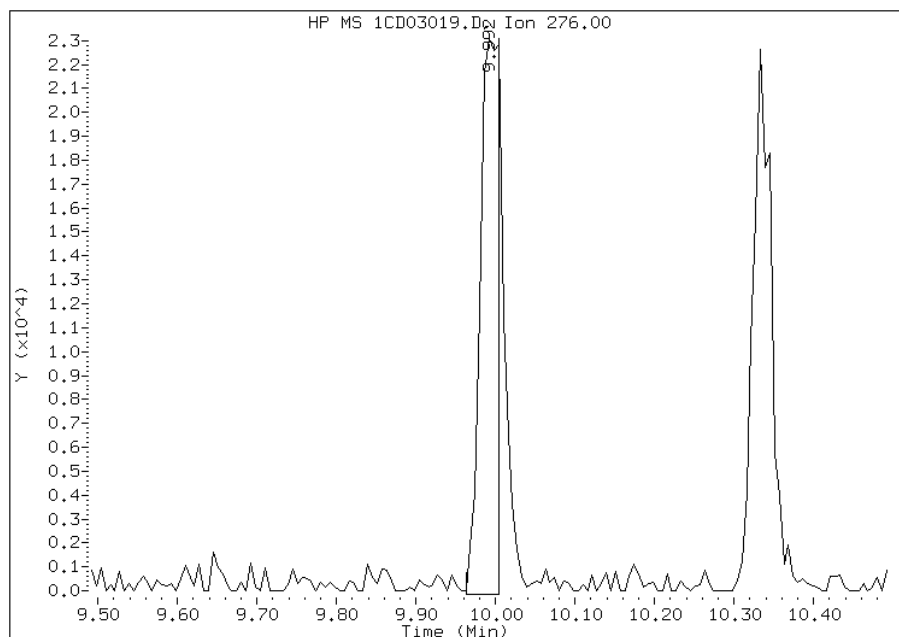
Processing Integration Results

RT: 9.99  
Response: 30001  
Amount: 1  
Conc: 380



Manual Integration Results

RT: 9.99  
Response: 38467  
Amount: 2  
Conc: 487



Manually Integrated By: cantins  
Modification Date: 04-Apr-2013 15:35  
Manual Integration Reason: Baseline Event



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1  
 SDG No.: 68088767-1  
 Client Sample ID: CV0509F-CS MSD Lab Sample ID: 680-88767-14 MSD  
 Matrix: Solid Lab File ID: 1CD04027.D  
 Analysis Method: 8270C LL Date Collected: 03/26/2013 09:55  
 Extract. Method: 3546 Date Extracted: 04/03/2013 11:18  
 Sample wt/vol: 15.02(g) Date Analyzed: 04/04/2013 19:10  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136131 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	686		130	25
208-96-8	Acenaphthylene	689		50	6.3
120-12-7	Anthracene	774		11	5.3
56-55-3	Benzo[a]anthracene	1050		10	4.9
50-32-8	Benzo[a]pyrene	987		13	6.6
205-99-2	Benzo[b]fluoranthene	1300		15	7.7
191-24-2	Benzo[g,h,i]perylene	834		25	5.5
207-08-9	Benzo[k]fluoranthene	952		10	4.5
218-01-9	Chrysene	1050		11	5.7
53-70-3	Dibenz(a,h)anthracene	781		25	5.2
206-44-0	Fluoranthene	1430		25	5.0
86-73-7	Fluorene	716		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	854		25	9.0
90-12-0	1-Methylnaphthalene	784		50	5.5
91-57-6	2-Methylnaphthalene	758		50	9.0
91-20-3	Naphthalene	687		50	5.5
85-01-8	Phenanthrene	1190		10	4.9
129-00-0	Pyrene	1310		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\1CD04027.D  
 Lab Smp Id: 680-88767-a-14-c ms  
 Inj Date : 04-APR-2013 19:10  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88767-a-14-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040413.b\a-bFASTPAHi-m.m  
 Meth Date : 04-Apr-2013 12:04 cantins Quant Type: ISTD  
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D  
 Als bottle: 27 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.698	3.692	(1.000)	501990	40.0000		
* 6 Acenaphthene-d10	164		4.786	4.786	(1.000)	379064	40.0000		
* 10 Phenanthrene-d10	188		5.733	5.733	(1.000)	721133	40.0000		
\$ 14 o-Terphenyl	230		5.986	5.992	(1.044)	86215	8.04997	535.9501	
* 18 Chrysene-d12	240		7.686	7.692	(1.000)	826401	40.0000		
* 23 Perylene-d12	264		8.862	8.886	(1.000)	776193	40.0000	(H)	
2 Naphthalene	128		3.710	3.710	(1.003)	105389	8.17380	544.1947	
3 2-Methylnaphthalene	142		4.133	4.133	(1.118)	79180	9.02149	600.6320	
4 1-Methylnaphthalene	142		4.198	4.198	(1.135)	73690	9.33089	621.2310	
5 Acenaphthylene	152		4.698	4.698	(0.982)	128669	8.20147	546.0365	
7 Acenaphthene	154		4.804	4.804	(1.004)	79268	8.15768	543.1210	
9 Fluorene	166		5.127	5.127	(1.071)	110347	8.51857	567.1487	
11 Phenanthrene	178		5.751	5.751	(1.003)	296542	14.1192	940.0268(R)	
12 Anthracene	178		5.786	5.786	(1.009)	196053	9.20842	613.0773	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.892	5.898	(1.028)	180895	9.91714	660.2626
15 Fluoranthene	202	6.592	6.592	(1.150)	395523	17.0522	1135.2970(R)
16 Pyrene	202	6.757	6.763	(0.879)	355962	15.5497	1035.2638(R)
17 Benzo(a)anthracene	228	7.674	7.686	(0.998)	294989	12.4551	829.2356
19 Chrysene	228	7.704	7.710	(1.002)	295328	12.5411	834.9598
20 Benzo(b)fluoranthene	252	8.521	8.533	(0.962)	339371	15.4656	1029.6657(RH)
21 Benzo(k)fluoranthene	252	8.539	8.557	(0.963)	240414	11.3278	754.1780(H)
22 Benzo(a)pyrene	252	8.809	8.827	(0.994)	242533	11.7396	781.5967(H)
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.056	(1.131)	199338	10.1586	676.3400(MH)
25 Dibenzo(a,h)anthracene	278	10.039	10.074	(1.133)	168429	9.29182	618.6297(H)
26 Benzo(g,h,i)perylene	276	10.368	10.415	(1.170)	198828	9.92793	660.9806(H)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CD04027.D

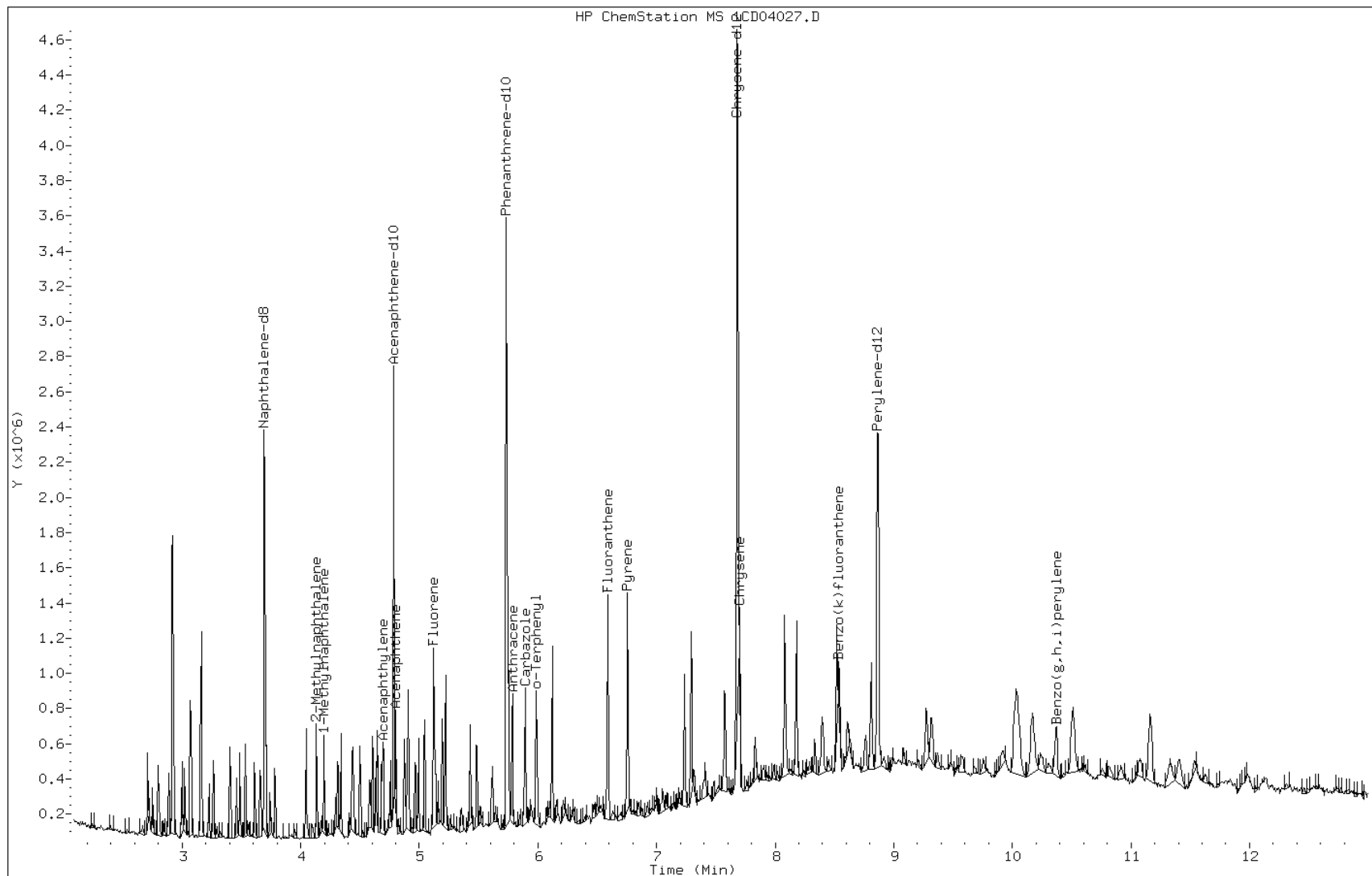
Date: 04-APR-2013 19:10

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88767-a-14-c msd

Operator: SCC

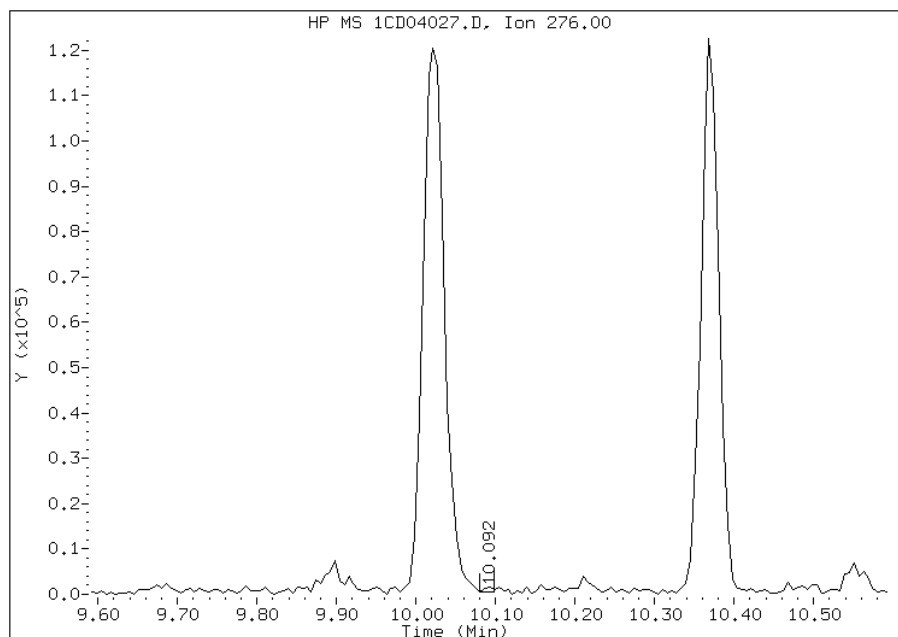


# Manual Integration Report

Data File: 1CD04027.D  
Inj. Date and Time: 04-APR-2013 19:10  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/05/2013

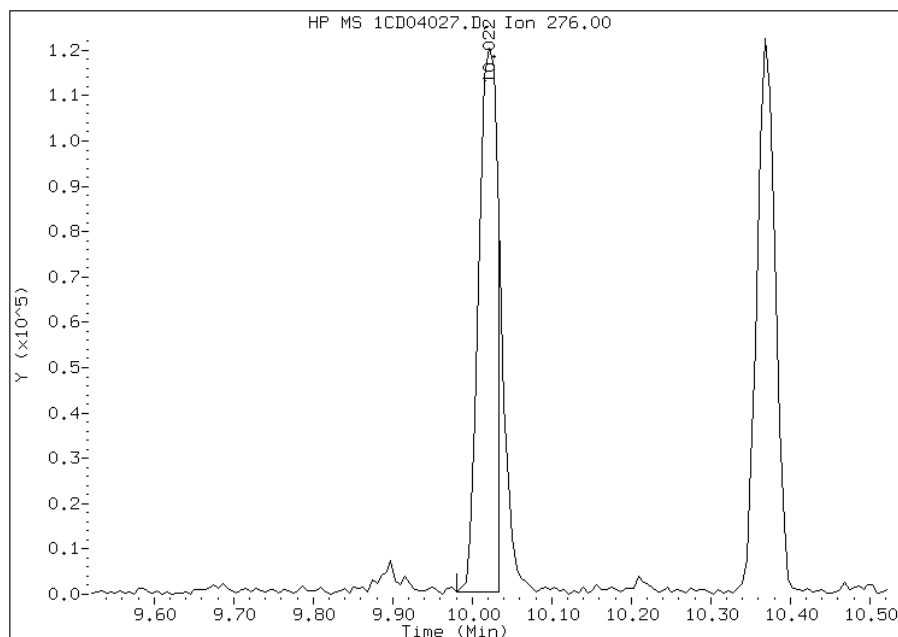
## Processing Integration Results

RT: 10.09  
Response: 795  
Amount: 0  
Conc: 3



## Manual Integration Results

RT: 10.02  
Response: 199338  
Amount: 10  
Conc: 676



Manually Integrated By: cantins  
Modification Date: 05-Apr-2013 14:48  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88767-1SDG No.: 68088767-1Instrument 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.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973Start Date: 04/03/2013 10:52Analysis Batch Number: 136081End Date: 04/03/2013 22:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2013 10:52	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 11:10	1		DB-5MS 250 (um)
DFTPP 660-136081/2		04/03/2013 11:28	1	1CD03002.D	DB-5MS 250 (um)
CCVIS 660-136081/3		04/03/2013 11:45	1	1CD03003.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:04	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:22	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:40	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 12:59	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:17	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:35	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 13:54	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:12	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:30	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 14:49	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 15:07	4		DB-5MS 250 (um)
MB 660-136063/1-A		04/03/2013 15:34	1	1CD03015.D	DB-5MS 250 (um)
LCS 660-136063/2-A		04/03/2013 15:52	1	1CD03016.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 16:10	4		DB-5MS 250 (um)
680-88766-A-21-E MS		04/03/2013 16:29	4	1CD03018.D	DB-5MS 250 (um)
680-88766-A-21-F MSD		04/03/2013 16:47	4	1CD03019.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 17:05	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 17:24	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 18:00	4		DB-5MS 250 (um)
ZZZZZ		04/03/2013 18:19	1		DB-5MS 250 (um)
680-88767-1	CV0022A-CS	04/03/2013 18:37	1	1CD03025.D	DB-5MS 250 (um)
680-88767-2	CV0022A-CSD	04/03/2013 18:55	1	1CD03026.D	DB-5MS 250 (um)
680-88767-3	CV0509AB-GS	04/03/2013 19:13	4	1CD03027.D	DB-5MS 250 (um)
680-88767-4	CV0509AC-GS	04/03/2013 19:32	1	1CD03028.D	DB-5MS 250 (um)
680-88767-5	CV0509AD-GS	04/03/2013 19:50	1	1CD03029.D	DB-5MS 250 (um)
680-88767-6	CV0509AE-GS	04/03/2013 20:08	1	1CD03030.D	DB-5MS 250 (um)
680-88767-7	CV0509AF-GS	04/03/2013 20:27	1	1CD03031.D	DB-5MS 250 (um)
680-88767-8	CV0509A-CS	04/03/2013 20:45	1	1CD03032.D	DB-5MS 250 (um)
680-88767-9	CV0509B-CS	04/03/2013 21:03	1	1CD03033.D	DB-5MS 250 (um)
680-88767-10	CV0509C-CS	04/03/2013 21:21	1	1CD03034.D	DB-5MS 250 (um)
ZZZZZ		04/03/2013 21:40	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 21:58	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 22:17	1		DB-5MS 250 (um)
ZZZZZ		04/03/2013 22:35	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88767-1SDG No.: 68088767-1Instrument ID: BSMC5973Start Date: 04/04/2013 10:56Analysis Batch Number: 136131End Date: 04/04/2013 23:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 10:56	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 11:15	1		DB-5MS 250 (um)
DFTPP 660-136131/2		04/04/2013 11:33	1	1CD04002.D	DB-5MS 250 (um)
CCVIS 660-136131/3		04/04/2013 11:50	1	1CD04003.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 12:08	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 12:26	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 12:45	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:03	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:21	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:40	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:58	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 14:16	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 14:35	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 14:53	4		DB-5MS 250 (um)
ZZZZZ		04/04/2013 15:12	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 15:30	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 15:48	1		DB-5MS 250 (um)
MB 660-136072/1-A		04/04/2013 16:07	1	1CD04017.D	DB-5MS 250 (um)
LCS 660-136072/2-A		04/04/2013 16:25	1	1CD04018.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 16:43	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:02	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:20	1		DB-5MS 250 (um)
680-88767-11	CV0509C-CSD	04/04/2013 17:38	1	1CD04022.D	DB-5MS 250 (um)
680-88767-12	CV0509D-CS	04/04/2013 17:57	4	1CD04023.D	DB-5MS 250 (um)
680-88767-13	CV0509E-CS	04/04/2013 18:15	4	1CD04024.D	DB-5MS 250 (um)
680-88767-14	CV0509F-CS	04/04/2013 18:34	1	1CD04025.D	DB-5MS 250 (um)
680-88767-14 MS	CV0509F-CS MS	04/04/2013 18:52	1	1CD04026.D	DB-5MS 250 (um)
680-88767-14 MSD	CV0509F-CS MSD	04/04/2013 19:10	1	1CD04027.D	DB-5MS 250 (um)
680-88767-15	CV0509G-CS	04/04/2013 19:29	1	1CD04028.D	DB-5MS 250 (um)
680-88767-16	CV0509H-CS	04/04/2013 19:47	4	1CD04029.D	DB-5MS 250 (um)
680-88767-17	CV0509I-CS	04/04/2013 20:05	1	1CD04030.D	DB-5MS 250 (um)
680-88767-18	CV0509J-CS	04/04/2013 20:24	1	1CD04031.D	DB-5MS 250 (um)
680-88767-19	CV0509K-CS	04/04/2013 20:42	1	1CD04032.D	DB-5MS 250 (um)
680-88767-20	CV0509K-CSD	04/04/2013 21:00	1	1CD04033.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 21:19	4		DB-5MS 250 (um)
ZZZZZ		04/04/2013 21:37	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 21:56	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 22:14	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 22:33	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 22:51	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 23:09	1		DB-5MS 250 (um)



## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica TampaJob No.: 680-88767-1SDG No.: 68088767-1Batch Number: 136063Batch Start Date: 04/02/13 11:33

Batch Analyst:

Batch Method: 3546Batch End Date: 04/03/13 08:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-136063/1		3546, 8270C LL		14.99 g	1 mL		1 mL
LCS 660-136063/2		3546, 8270C LL		14.97 g	1 mL	1 mL	1 mL
680-88766-A-21 MS		3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL
680-88766-A-21 MSD		3546, 8270C LL	T	14.60 g	1 mL	1 mL	1 mL
680-88767-A-1	CV0022A-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL
680-88767-A-2	CV0022A-CSD	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-88767-A-3	CV0509AB-GS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88767-A-4	CV0509AC-GS	3546, 8270C LL	T	14.57 g	1 mL		1 mL
680-88767-A-5	CV0509AD-GS	3546, 8270C LL	T	14.89 g	1 mL		1 mL
680-88767-A-6	CV0509AE-GS	3546, 8270C LL	T	14.71 g	1 mL		1 mL
680-88767-A-7	CV0509AF-GS	3546, 8270C LL	T	15.13 g	1 mL		1 mL
680-88767-A-8	CV0509A-CS	3546, 8270C LL	T	14.88 g	1 mL		1 mL
680-88767-A-9	CV0509B-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL
680-88767-A-10	CV0509C-CS	3546, 8270C LL	T	14.80 g	1 mL		1 mL

## Batch Notes

Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 58
Microwave Start Time	12:30 4/2/13
Microwave Stop Time	13:05 4/2/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SC
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 this reagent.

8270C LL

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica TampaJob No.: 680-88767-1SDG No.: 68088767-1Batch Number: 136072Batch Start Date: 04/03/13 11:18

Batch Analyst:

Batch Method: 3546Batch End Date: 04/03/13 16:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-136072/1		3546, 8270C LL		15.17 g	1 mL		1 mL
LCS 660-136072/2		3546, 8270C LL		15.21 g	1 mL	1 mL	1 mL
680-88767-A-11	CV0509C-CSD	3546, 8270C LL	T	14.97 g	1 mL		1 mL
680-88767-A-12	CV0509D-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL
680-88767-A-13	CV0509E-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-88767-A-14	CV0509F-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL
680-88767-A-14 MS	CV0509F-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL
680-88767-A-14 MSD	CV0509F-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL
680-88767-A-15	CV0509G-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL
680-88767-A-16	CV0509H-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88767-A-17	CV0509I-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL
680-88767-A-18	CV0509J-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL
680-88767-A-19	CV0509K-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL
680-88767-A-20	CV0509K-CSD	3546, 8270C LL	T	15.10 g	1 mL		1 mL

## Batch Notes

Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 59/60
Microwave Start Time	14:25 4/3/13
Microwave Stop Time	15:00 4/3/13
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	AG
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 this reagent.

8270C LL

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# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88767-1

SDG No.: 68088767-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0022A-CS	680-88767-1
CV0022A-CSD	680-88767-2
CV0509AB-GS	680-88767-3
CV0509AC-GS	680-88767-4
CV0509AD-GS	680-88767-5
CV0509AE-GS	680-88767-6
CV0509AF-GS	680-88767-7
CV0509A-CS	680-88767-8
CV0509B-CS	680-88767-9
CV0509C-CS	680-88767-10
CV0509C-CSD	680-88767-11
CV0509D-CS	680-88767-12
CV0509E-CS	680-88767-13
CV0509F-CS	680-88767-14
CV0509G-CS	680-88767-15
CV0509H-CS	680-88767-16
CV0509I-CS	680-88767-17
CV0509J-CS	680-88767-18
CV0509K-CS	680-88767-19
CV0509K-CSD	680-88767-20

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88767-1  
SDG Number: 68088767-1  
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: 680-88767-1  
SDG Number: 68088767-1  
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.: 680-88767-1

SDG No.: 68088767-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 10:07 End Date: 03/29/2013 10:07

Lab Sample ID	D / F	Type	Time	Analytes															
				M	O	i	s	t											
ZZZZZZ			10:07																
680-88767-A-21 MS	1	T	10:07	X															
680-88767-A-21 MSD	1	T	10:07	X															
680-88767-14	1	T	10:07	X															
680-88767-A-14 MS	1	T	10:07	X															
680-88767-A-14 MSD	1	T	10:07	X															
ZZZZZZ			10:07																
ZZZZZZ			10:07																
680-88767-18	1	T	10:07	X															
ZZZZZZ			10:07																
680-88767-17	1	T	10:07	X															
680-88767-11	1	T	10:07	X															
680-88767-1	1	T	10:07	X															
ZZZZZZ			10:07																
680-88767-A-41 MS	1	T	10:07	X															
680-88767-A-41 MSD	1	T	10:07	X															
ZZZZZZ			10:07																
680-88767-12	1	T	10:07	X															
680-88767-10	1	T	10:07	X															
680-88767-2	1	T	10:07	X															
680-88767-5	1	T	10:07	X															
680-88767-3	1	T	10:07	X															
680-88767-7	1	T	10:07	X															
680-88767-4	1	T	10:07	X															
680-88767-8	1	T	10:07	X															
680-88767-13	1	T	10:07	X															
680-88767-15	1	T	10:07	X															
680-88767-9	1	T	10:07	X															
680-88767-16	1	T	10:07	X															
680-88767-6	1	T	10:07	X															
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																
680-88767-19	1	T	10:07	X															
680-88767-20	1	T	10:07	X															
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																
ZZZZZZ			10:07																



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88767-1

SDG No.: 68088767-1

Batch Number: 135922 Batch Start Date: 03/29/13 10:07 Batch Analyst:

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-88767-A-21 MS		Moisture	T	1	0 g	4.39 g	3.20 g
680-88767-A-21 MSD		Moisture	T	1	0 g	4.39 g	3.20 g
680-88767-A-14	CV0509F-CS	Moisture	T	2	0 g	4.38 g	3.47 g
680-88767-A-14 MS		Moisture	T	2	0 g	4.38 g	3.47 g
680-88767-A-14 MSD		Moisture	T	2	0 g	4.38 g	3.47 g
680-88767-A-18	CV0509J-CS	Moisture	T	5	0 g	4.13 g	2.69 g
680-88767-A-17	CV0509I-CS	Moisture	T	7	0 g	4.63 g	2.77 g
680-88767-A-11	CV0509C-CSD	Moisture	T	8	0 g	4.42 g	2.84 g
680-88767-A-1	CV0022A-CS	Moisture	T	9	0 g	4.74 g	2.79 g
680-88767-A-41 MS		Moisture	T	10	0 g	5.79 g	4.76 g
680-88767-A-41 MSD		Moisture	T	10	0 g	5.79 g	4.76 g
680-88767-A-12	CV0509D-CS	Moisture	T	12	0 g	4.92 g	3.25 g
680-88767-A-10	CV0509C-CS	Moisture	T	13	0 g	4.47 g	3.72 g
680-88767-A-2	CV0022A-CSD	Moisture	T	14	0 g	4.53 g	2.75 g
680-88767-A-5	CV0509AD-GS	Moisture	T	15	0 g	4.41 g	3.65 g
680-88767-A-3	CV0509AB-GS	Moisture	T	16	0 g	4.75 g	3.51 g
680-88767-A-7	CV0509AF-GS	Moisture	T	17	0 g	5.77 g	4.72 g
680-88767-A-4	CV0509AC-GS	Moisture	T	18	0 g	5.14 g	4.00 g
680-88767-A-8	CV0509A-CS	Moisture	T	19	0 g	5.53 g	4.55 g
680-88767-A-13	CV0509E-CS	Moisture	T	20	0 g	5.31 g	4.23 g
680-88767-A-15	CV0509G-CS	Moisture	T	21	0 g	6.52 g	4.57 g
680-88767-A-9	CV0509B-CS	Moisture	T	22	0 g	4.67 g	3.29 g
680-88767-A-16	CV0509H-CS	Moisture	T	23	0 g	4.44 g	3.62 g
680-88767-A-6	CV0509AE-GS	Moisture	T	24	0 g	4.66 g	3.37 g
680-88767-A-19	CV0509K-CS	Moisture	T	29	0 g	4.70 g	3.33 g
680-88767-A-20	CV0509K-CSD	Moisture	T	30	0 g	5.24 g	3.66 g

Batch Notes

Balance ID	2 No Unit
Date samples were placed in the oven	3.29.13
Date samples were removed from oven	3/30/13
Time Samples were removed from oven	8:30

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 this reagent.

Moisture



# Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>5</i>
--	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="radio"/>
---	-------------	--------------	--

CLIENT NAME	CLIENT FAX	DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>
-------------	------------	----------	---

CLIENT ADDRESS	CLIENT EMAIL	DATE DUE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
----------------	--------------	----------	---

COMPANY CONTACT	REMARKS
-----------------	---------

SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS	NUMBER OF CONTAINERS SUBMITTED	REMARKS
-----------------------	--	------------------------------------	-----------------	--------------------	-----	---------------------------------------	-------------------	--------------------------------	---------

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS	NUMBER OF CONTAINERS SUBMITTED	REMARKS
<i>3-26-13</i>	<i>0900</i>	<i>CN 0509 A - CS</i>	<i>G</i>	<i>X</i>			<i>X</i>	<i>LL PAH</i>		
	<i>0900</i>	<i>CN 0509 A - CSD</i>	<i>C</i>	<i>X</i>				<i>SVOC</i>		
	<i>0950</i>	<i>CN 0509 AB - GS</i>	<i>G</i>	<i>X</i>				<i>Metals</i>		
	<i>0952</i>	<i>CN 0509 AC - GS</i>	<i>G</i>	<i>X</i>						
	<i>0954</i>	<i>CN 0509 AD - GS</i>	<i>G</i>	<i>X</i>						
	<i>1024</i>	<i>CN 0509 AE - GS</i>	<i>G</i>	<i>X</i>						
	<i>1100</i>	<i>CN 0509 AF - GS</i>	<i>G</i>	<i>X</i>						
	<i>0858</i>	<i>CN 0509 A - CS</i>	<i>C</i>	<i>X</i>						
	<i>0914</i>	<i>CN 0509 B - CS</i>	<i>C</i>	<i>X</i>						
	<i>0923</i>	<i>CN 0509 C - CS</i>	<i>C</i>	<i>X</i>						
	<i>0925</i>	<i>CN 0509 C - CSD</i>	<i>C</i>	<i>X</i>						
	<i>0938</i>	<i>CN 0509 D - CS</i>	<i>C</i>	<i>X</i>						

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-27-13</i>	TIME <i>1400</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/28/13</i>	TIME <i>0937</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88767</i>	LABORATORY REMARKS <i>1.4</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>5</i>								
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LPAH</i>	<i>SVOC</i>	<i>Metals</i>									STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

(b) (6)  
(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME							1	2	3	4	5	6	7	8	9	10						
<i>3-26-13</i>	<i>0945</i>	<i>CV0509 E - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>0955</i>	<i>CV0509 F - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>			<i>X</i>													
	<i>0958</i>	<i>CV0509 G - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>		<i>X</i>														
	<i>1005</i>	<i>CV0509 H - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1007</i>	<i>CV0509 I - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1012</i>	<i>CV0509 J - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1018</i>	<i>CV0509 K - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1020</i>	<i>CV0509 K - CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1022</i>	<i>CV0509 L - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1034</i>	<i>CV0509 M - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1040</i>	<i>CV0509 N - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																
	<i>1045</i>	<i>CV0509 O - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>			<i>X</i>													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-26-13</i>	TIME <i>1400</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/28/13</i>	TIME <i>0937</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88767</i>	LABORATORY REMARKS <i>1.4c</i>
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

SDG Number: 68088767-1

Login Number: 88767

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1  
SDG Number: 68088767-1

**Login Number: 88767**  
**List Number: 1**  
**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**  
**List Creation: 03/29/13 09:17 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# 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: 680-88767-1

TestAmerica Sample Delivery Group: 68088767-1  
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:  
4/9/2013 11:07:02 AM

Bernard Kirkland  
Project Manager I  
[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey  
Project Manager II  
[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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# Case Narrative

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

TestAmerica Job ID: 680-88767-1  
SDG: 68088767-1

**Job ID: 680-88767-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88767-1**

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 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0022A-CS (680-88767-1), CV0022A-CSD (680-88767-2), CV0509AB-GS (680-88767-3), CV0509AC-GS (680-88767-4), CV0509AD-GS (680-88767-5), CV0509AE-GS (680-88767-6), CV0509AF-GS (680-88767-7), CV0509A-CS (680-88767-8), CV0509B-CS (680-88767-9), CV0509C-CS (680-88767-10), CV0509C-CSD (680-88767-11), CV0509D-CS (680-88767-12), CV0509E-CS (680-88767-13), CV0509F-CS (680-88767-14), CV0509G-CS (680-88767-15), CV0509H-CS (680-88767-16), CV0509I-CS (680-88767-17), CV0509J-CS (680-88767-18), CV0509K-CS (680-88767-19) and CV0509K-CSD (680-88767-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and 04/03/2013 and analyzed on 04/03/2013 and 04/04/2013.

Samples CV0509AB-GS (680-88767-3)[4X], CV0509D-CS (680-88767-12)[4X], CV0509E-CS (680-88767-13)[4X] and CV0509H-CS (680-88767-16)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

# Sample Summary

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

TestAmerica Job ID: 680-88767-1  
SDG: 68088767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88767-1	CV0022A-CS	Solid	03/26/13 09:00	03/28/13 09:37
680-88767-2	CV0022A-CSD	Solid	03/26/13 09:00	03/28/13 09:37
680-88767-3	CV0509AB-GS	Solid	03/26/13 09:50	03/28/13 09:37
680-88767-4	CV0509AC-GS	Solid	03/26/13 09:52	03/28/13 09:37
680-88767-5	CV0509AD-GS	Solid	03/26/13 09:54	03/28/13 09:37
680-88767-6	CV0509AE-GS	Solid	03/26/13 10:24	03/28/13 09:37
680-88767-7	CV0509AF-GS	Solid	03/26/13 11:00	03/28/13 09:37
680-88767-8	CV0509A-CS	Solid	03/26/13 08:58	03/28/13 09:37
680-88767-9	CV0509B-CS	Solid	03/26/13 09:14	03/28/13 09:37
680-88767-10	CV0509C-CS	Solid	03/26/13 09:23	03/28/13 09:37
680-88767-11	CV0509C-CSD	Solid	03/26/13 09:25	03/28/13 09:37
680-88767-12	CV0509D-CS	Solid	03/26/13 09:38	03/28/13 09:37
680-88767-13	CV0509E-CS	Solid	03/26/13 09:45	03/28/13 09:37
680-88767-14	CV0509F-CS	Solid	03/26/13 09:55	03/28/13 09:37
680-88767-15	CV0509G-CS	Solid	03/26/13 09:58	03/28/13 09:37
680-88767-16	CV0509H-CS	Solid	03/26/13 10:05	03/28/13 09:37
680-88767-17	CV0509I-CS	Solid	03/26/13 10:07	03/28/13 09:37
680-88767-18	CV0509J-CS	Solid	03/26/13 10:12	03/28/13 09:37
680-88767-19	CV0509K-CS	Solid	03/26/13 10:18	03/28/13 09:37
680-88767-20	CV0509K-CSD	Solid	03/26/13 10:20	03/28/13 09:37

# Method Summary

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

TestAmerica Job ID: 680-88767-1  
SDG: 68088767-1

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: 680-88767-1  
SDG: 68088767-1

### 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.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0022A-CS**

**Lab Sample ID: 680-88767-1**

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 58.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	70	J	170	33	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Acenaphthylene	48	J	67	8.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Anthracene	150		14	7.0	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Benzo[a]anthracene	520		13	6.5	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Benzo[a]pyrene	460		17	8.7	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Benzo[b]fluoranthene	720		20	10	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Benzo[g,h,i]perylene	270		33	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Benzo[k]fluoranthene	340		13	6.0	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Chrysene	600		15	7.5	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Dibenz(a,h)anthracene	94		33	6.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Fluoranthene	1000		33	6.7	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Fluorene	40		33	6.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Indeno[1,2,3-cd]pyrene	280		33	12	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
1-Methylnaphthalene	120		67	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
2-Methylnaphthalene	140		67	12	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Naphthalene	180		67	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Phenanthrene	680		13	6.5	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1
Pyrene	950		33	6.2	ug/Kg	☼	04/02/13 11:33	04/03/13 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	04/02/13 11:33	04/03/13 18:37	1

**Client Sample ID: CV0022A-CSD**

**Lab Sample ID: 680-88767-2**

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 60.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	80	J	160	33	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Acenaphthylene	76		66	8.2	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Anthracene	290		14	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Benzo[a]anthracene	890		13	6.4	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Benzo[a]pyrene	780		17	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Benzo[b]fluoranthene	1400		20	10	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Benzo[g,h,i]perylene	530		33	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Benzo[k]fluoranthene	460		13	5.9	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Chrysene	820		15	7.4	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Dibenz(a,h)anthracene	140		33	6.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Fluoranthene	1800		33	6.6	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Fluorene	110		33	6.8	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Indeno[1,2,3-cd]pyrene	500		33	12	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
1-Methylnaphthalene	230		66	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
2-Methylnaphthalene	240		66	12	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Naphthalene	240		66	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Phenanthrene	1300		13	6.4	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1
Pyrene	1400		33	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130	04/02/13 11:33	04/03/13 18:55	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AB-GS**

**Lab Sample ID: 680-88767-3**

Date Collected: 03/26/13 09:50

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 73.9

**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	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Acenaphthylene</b>	<b>56</b>	<b>J</b>	220	27	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Anthracene</b>	<b>190</b>		46	23	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Benzo[a]anthracene</b>	<b>600</b>		43	21	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Benzo[a]pyrene</b>	<b>440</b>		56	28	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Benzo[b]fluoranthene</b>	<b>760</b>		66	33	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Benzo[g,h,i]perylene</b>	<b>290</b>		110	24	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Benzo[k]fluoranthene</b>	<b>260</b>		43	20	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Chrysene</b>	<b>720</b>		49	24	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Dibenz(a,h)anthracene</b>	<b>130</b>		110	22	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Fluoranthene</b>	<b>1200</b>		110	22	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Fluorene</b>	<b>150</b>		110	22	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>270</b>		110	39	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>1-Methylnaphthalene</b>	<b>150</b>	<b>J</b>	220	24	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>2-Methylnaphthalene</b>	<b>140</b>	<b>J</b>	220	39	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Naphthalene</b>	<b>140</b>	<b>J</b>	220	24	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Phenanthrene</b>	<b>900</b>		43	21	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	4
<b>Pyrene</b>	<b>980</b>		110	20	ug/Kg	☼	04/02/13 11:33	04/03/13 19:13	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	80		30 - 130				04/02/13 11:33	04/03/13 19:13	4

**Client Sample ID: CV0509AC-GS**

**Lab Sample ID: 680-88767-4**

Date Collected: 03/26/13 09:52

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>68</b>	<b>J</b>	130	26	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Acenaphthylene</b>	<b>40</b>	<b>J</b>	53	6.6	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Anthracene</b>	<b>170</b>		11	5.6	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Benzo[a]anthracene</b>	<b>710</b>		11	5.2	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Benzo[a]pyrene</b>	<b>600</b>		14	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Benzo[b]fluoranthene</b>	<b>1000</b>		16	8.1	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Benzo[g,h,i]perylene</b>	<b>430</b>		26	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Benzo[k]fluoranthene</b>	<b>350</b>		11	4.8	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Chrysene</b>	<b>660</b>		12	6.0	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Dibenz(a,h)anthracene</b>	<b>110</b>		26	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Fluoranthene</b>	<b>1400</b>		26	5.3	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Fluorene</b>	<b>74</b>		26	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		26	9.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>1-Methylnaphthalene</b>	<b>120</b>		53	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>2-Methylnaphthalene</b>	<b>150</b>		53	9.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Naphthalene</b>	<b>130</b>		53	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Phenanthrene</b>	<b>880</b>		11	5.2	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	1
<b>Pyrene</b>	<b>1100</b>		26	4.9	ug/Kg	☼	04/02/13 11:33	04/03/13 19:32	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	69		30 - 130				04/02/13 11:33	04/03/13 19:32	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AD-GS**

**Lab Sample ID: 680-88767-5**

Date Collected: 03/26/13 09:54

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Acenaphthylene</b>	<b>6.2</b>	<b>J</b>	49	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Anthracene</b>	<b>25</b>		10	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Benzo[a]anthracene</b>	<b>130</b>		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Benzo[a]pyrene</b>	<b>86</b>		13	6.3	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Benzo[b]fluoranthene</b>	<b>180</b>		15	7.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Benzo[g,h,i]perylene</b>	<b>100</b>		24	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Benzo[k]fluoranthene</b>	<b>41</b>		9.7	4.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Chrysene</b>	<b>180</b>		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Dibenz(a,h)anthracene</b>	<b>30</b>		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Fluoranthene</b>	<b>180</b>		24	4.9	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Fluorene</b>	<b>44</b>		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>76</b>		24	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>1-Methylnaphthalene</b>	<b>170</b>		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>2-Methylnaphthalene</b>	<b>250</b>		49	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Naphthalene</b>	<b>66</b>		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Phenanthrene</b>	<b>260</b>		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	1
<b>Pyrene</b>	<b>170</b>		24	4.5	ug/Kg	☼	04/02/13 11:33	04/03/13 19:50	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				04/02/13 11:33	04/03/13 19:50	1

**Client Sample ID: CV0509AE-GS**

**Lab Sample ID: 680-88767-6**

Date Collected: 03/26/13 10:24

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 72.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>29</b>	<b>J</b>	140	28	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
Acenaphthylene	56	U	56	7.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Anthracene</b>	<b>54</b>		12	5.9	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Benzo[a]anthracene</b>	<b>150</b>		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Benzo[a]pyrene</b>	<b>86</b>		15	7.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Benzo[b]fluoranthene</b>	<b>240</b>		17	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Benzo[g,h,i]perylene</b>	<b>110</b>		28	6.2	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Benzo[k]fluoranthene</b>	<b>76</b>		11	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Chrysene</b>	<b>220</b>		13	6.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Dibenz(a,h)anthracene</b>	<b>34</b>		28	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Fluoranthene</b>	<b>410</b>		28	5.6	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Fluorene</b>	<b>45</b>		28	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>83</b>		28	10	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>1-Methylnaphthalene</b>	<b>68</b>		56	6.2	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>2-Methylnaphthalene</b>	<b>75</b>		56	10	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Naphthalene</b>	<b>100</b>		56	6.2	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Phenanthrene</b>	<b>340</b>		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Pyrene</b>	<b>330</b>		28	5.2	ug/Kg	☼	04/02/13 11:33	04/03/13 20:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	67		30 - 130				04/02/13 11:33	04/03/13 20:08	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509AF-GS**

**Lab Sample ID: 680-88767-7**

Date Collected: 03/26/13 11:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	39	J	120	24	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Acenaphthylene	120		48	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Anthracene	220		10	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Benzo[a]anthracene	740		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Benzo[a]pyrene	700		13	6.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Benzo[b]fluoranthene	1300		15	7.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Benzo[g,h,i]perylene	530		24	5.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Benzo[k]fluoranthene	530		9.7	4.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Chrysene	780		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Dibenz(a,h)anthracene	190		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Fluoranthene	1200		24	4.8	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Fluorene	52		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Indeno[1,2,3-cd]pyrene	510		24	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
1-Methylnaphthalene	160		48	5.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
2-Methylnaphthalene	190		48	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Naphthalene	170		48	5.3	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Phenanthrene	740		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
Pyrene	1200		24	4.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	73		30 - 130				04/02/13 11:33	04/03/13 20:27	1

**Client Sample ID: CV0509A-CS**

**Lab Sample ID: 680-88767-8**

Date Collected: 03/26/13 08:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Acenaphthylene	32	J	49	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Anthracene	83		10	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Benzo[a]anthracene	430		9.8	4.8	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Benzo[a]pyrene	410		13	6.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Benzo[b]fluoranthene	700		15	7.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Benzo[g,h,i]perylene	340		25	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Benzo[k]fluoranthene	210		9.8	4.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Chrysene	450		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Dibenz(a,h)anthracene	99		25	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Fluoranthene	730		25	4.9	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Fluorene	40		25	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Indeno[1,2,3-cd]pyrene	230		25	8.7	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
1-Methylnaphthalene	95		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
2-Methylnaphthalene	110		49	8.7	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Naphthalene	79		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Phenanthrene	450		9.8	4.8	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	1
Pyrene	630		25	4.5	ug/Kg	☼	04/02/13 11:33	04/03/13 20:45	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	75		30 - 130				04/02/13 11:33	04/03/13 20:45	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509B-CS**

**Lab Sample ID: 680-88767-9**

Date Collected: 03/26/13 09:14

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Acenaphthylene</b>	<b>13</b>	<b>J</b>	55	6.9	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Anthracene</b>	<b>54</b>		12	5.8	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Benzo[a]anthracene</b>	<b>200</b>		11	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Benzo[a]pyrene</b>	<b>160</b>		14	7.2	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Benzo[b]fluoranthene</b>	<b>340</b>		17	8.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Benzo[g,h,i]perylene</b>	<b>160</b>		28	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Benzo[k]fluoranthene</b>	<b>100</b>		11	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Chrysene</b>	<b>280</b>		12	6.2	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Dibenz(a,h)anthracene</b>	<b>56</b>		28	5.7	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Fluoranthene</b>	<b>340</b>		28	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Fluorene</b>	<b>27</b>	<b>J</b>	28	5.7	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>160</b>		28	9.8	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>1-Methylnaphthalene</b>	<b>44</b>	<b>J</b>	55	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>2-Methylnaphthalene</b>	<b>64</b>		55	9.8	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Naphthalene</b>	<b>70</b>		55	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Phenanthrene</b>	<b>260</b>		11	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Pyrene</b>	<b>300</b>		28	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	71		30 - 130				04/02/13 11:33	04/03/13 21:03	1

**Client Sample ID: CV0509C-CS**

**Lab Sample ID: 680-88767-10**

Date Collected: 03/26/13 09:23

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Acenaphthylene</b>	<b>65</b>		49	6.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Anthracene</b>	<b>98</b>		10	5.1	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Benzo[a]anthracene</b>	<b>460</b>		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Benzo[a]pyrene</b>	<b>380</b>		13	6.3	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Benzo[b]fluoranthene</b>	<b>760</b>		15	7.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		24	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Benzo[k]fluoranthene</b>	<b>270</b>		9.7	4.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Chrysene</b>	<b>580</b>		11	5.5	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Dibenz(a,h)anthracene</b>	<b>120</b>		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Fluoranthene</b>	<b>660</b>		24	4.9	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Fluorene</b>	<b>33</b>		24	5.0	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>230</b>		24	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>1-Methylnaphthalene</b>	<b>140</b>		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>2-Methylnaphthalene</b>	<b>160</b>		49	8.6	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Naphthalene</b>	<b>120</b>		49	5.4	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Phenanthrene</b>	<b>430</b>		9.7	4.7	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Pyrene</b>	<b>550</b>		24	4.5	ug/Kg	☼	04/02/13 11:33	04/03/13 21:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	58		30 - 130				04/02/13 11:33	04/03/13 21:21	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509C-CSD**

**Lab Sample ID: 680-88767-11**

Date Collected: 03/26/13 09:25

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 64.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Acenaphthylene	64		62	7.8	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Anthracene	74		13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Benzo[a]anthracene	350		12	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Benzo[a]pyrene	260		16	8.1	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Benzo[b]fluoranthene	500		19	9.5	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Benzo[g,h,i]perylene	190		31	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Benzo[k]fluoranthene	190		12	5.6	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Chrysene	380		14	7.0	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Dibenz(a,h)anthracene	58		31	6.4	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Fluoranthene	600		31	6.2	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Fluorene	29	J	31	6.4	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Indeno[1,2,3-cd]pyrene	180		31	11	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
1-Methylnaphthalene	67		62	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
2-Methylnaphthalene	99		62	11	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Naphthalene	78		62	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Phenanthrene	310		12	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	1
Pyrene	490		31	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 17:38	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	61		30 - 130				04/03/13 11:18	04/04/13 17:38	1

**Client Sample ID: CV0509D-CS**

**Lab Sample ID: 680-88767-12**

Date Collected: 03/26/13 09:38

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 66.1

**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	☼	04/03/13 11:18	04/04/13 17:57	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Anthracene	68		50	25	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Benzo[a]anthracene	450		47	23	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Benzo[a]pyrene	330		61	31	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Benzo[b]fluoranthene	530		72	36	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Benzo[g,h,i]perylene	230		120	26	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Benzo[k]fluoranthene	120		47	21	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Chrysene	360		53	27	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Dibenz(a,h)anthracene	62	J	120	24	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Fluoranthene	570		120	24	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Fluorene	120	U	120	24	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Indeno[1,2,3-cd]pyrene	180		120	42	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
1-Methylnaphthalene	190	J	240	26	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
2-Methylnaphthalene	330		240	42	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Naphthalene	140	J	240	26	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Phenanthrene	300		47	23	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	4
Pyrene	470		120	22	ug/Kg	☼	04/03/13 11:18	04/04/13 17:57	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	100		30 - 130				04/03/13 11:18	04/04/13 17:57	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509E-CS**

**Lab Sample ID: 680-88767-13**

Date Collected: 03/26/13 09:45

Matrix: Solid

Date Received: 03/28/13 09:37

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	130	J	500	100	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Acenaphthylene	50	J	200	25	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Anthracene	360		42	21	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Benzo[a]anthracene	1200		40	20	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Benzo[a]pyrene	830		52	26	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Benzo[b]fluoranthene	1400		61	31	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Benzo[g,h,i]perylene	580		100	22	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Benzo[k]fluoranthene	590		40	18	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Chrysene	1100		45	23	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Dibenz(a,h)anthracene	180		100	21	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Fluoranthene	2600		100	20	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Fluorene	140		100	21	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Indeno[1,2,3-cd]pyrene	550		100	36	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
1-Methylnaphthalene	91	J	200	22	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
2-Methylnaphthalene	110	J	200	36	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Naphthalene	120	J	200	22	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Phenanthrene	1600		40	20	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	4
Pyrene	2000		100	19	ug/Kg	☼	04/03/13 11:18	04/04/13 18:15	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	107		30 - 130				04/03/13 11:18	04/04/13 18:15	4

**Client Sample ID: CV0509F-CS**

**Lab Sample ID: 680-88767-14**

Date Collected: 03/26/13 09:55

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Acenaphthylene	15	J	50	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Anthracene	41		11	5.3	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Benzo[a]anthracene	200		10	4.9	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Benzo[a]pyrene	180		13	6.6	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Benzo[b]fluoranthene	300		15	7.7	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Benzo[g,h,i]perylene	130		25	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Benzo[k]fluoranthene	110		10	4.5	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Chrysene	210		11	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Dibenz(a,h)anthracene	44		25	5.2	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Fluoranthene	350		25	5.0	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Fluorene	19	J	25	5.2	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Indeno[1,2,3-cd]pyrene	120		25	9.0	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
1-Methylnaphthalene	37	J	50	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
2-Methylnaphthalene	50		50	9.0	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Naphthalene	45	J	50	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Phenanthrene	230		10	4.9	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
Pyrene	320		25	4.7	ug/Kg	☼	04/03/13 11:18	04/04/13 18:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	77		30 - 130				04/03/13 11:18	04/04/13 18:34	1

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# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509G-CS**

**Lab Sample ID: 680-88767-15**

Date Collected: 03/26/13 09:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Acenaphthylene	18	J	57	7.1	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Anthracene	28		12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Benzo[a]anthracene	200		11	5.6	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Benzo[a]pyrene	130		15	7.4	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Benzo[b]fluoranthene	180		17	8.7	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Benzo[g,h,i]perylene	85		28	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Benzo[k]fluoranthene	86		11	5.1	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Chrysene	190		13	6.4	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Dibenz(a,h)anthracene	28		28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Fluoranthene	180		28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Fluorene	8.3	J	28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Indeno[1,2,3-cd]pyrene	87		28	10	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
1-Methylnaphthalene	20	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
2-Methylnaphthalene	23	J	57	10	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Naphthalene	37	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Phenanthrene	77		11	5.6	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
Pyrene	190		28	5.3	ug/Kg	☼	04/03/13 11:18	04/04/13 19:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	57		30 - 130				04/03/13 11:18	04/04/13 19:29	1

**Client Sample ID: CV0509H-CS**

**Lab Sample ID: 680-88767-16**

Date Collected: 03/26/13 10:05

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	490	98	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Acenaphthylene	79	J	200	25	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Anthracene	280		41	21	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Benzo[a]anthracene	1100		39	19	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Benzo[a]pyrene	840		51	26	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Benzo[b]fluoranthene	1400		60	30	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Benzo[g,h,i]perylene	570		98	22	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Benzo[k]fluoranthene	510		39	18	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Chrysene	990		44	22	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Dibenz(a,h)anthracene	120		98	20	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Fluoranthene	1900		98	20	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Fluorene	120		98	20	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Indeno[1,2,3-cd]pyrene	560		98	35	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
1-Methylnaphthalene	140	J	200	22	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
2-Methylnaphthalene	150	J	200	35	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Naphthalene	210		200	22	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Phenanthrene	1400		39	19	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	4
Pyrene	1500		98	18	ug/Kg	☼	04/03/13 11:18	04/04/13 19:47	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	107		30 - 130				04/03/13 11:18	04/04/13 19:47	4

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509I-CS**

**Lab Sample ID: 680-88767-17**

Date Collected: 03/26/13 10:07

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 59.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Acenaphthylene</b>	<b>9.8</b>	<b>J</b>	66	8.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Anthracene</b>	<b>22</b>		14	7.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Benzo[a]anthracene</b>	<b>82</b>		13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Benzo[a]pyrene</b>	<b>65</b>		17	8.6	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Benzo[b]fluoranthene</b>	<b>110</b>		20	10	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Benzo[g,h,i]perylene</b>	<b>46</b>		33	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Benzo[k]fluoranthene</b>	<b>23</b>		13	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Chrysene</b>	<b>99</b>		15	7.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Dibenz(a,h)anthracene</b>	<b>18</b>	<b>J</b>	33	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Fluoranthene</b>	<b>140</b>		33	6.6	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Fluorene</b>	<b>17</b>	<b>J</b>	33	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>41</b>		33	12	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>1-Methylnaphthalene</b>	<b>67</b>		66	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>2-Methylnaphthalene</b>	<b>76</b>		66	12	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Naphthalene</b>	<b>64</b>	<b>J</b>	66	7.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Phenanthrene</b>	<b>100</b>		13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	1
<b>Pyrene</b>	<b>120</b>		33	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:05	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	74		30 - 130				04/03/13 11:18	04/04/13 20:05	1

**Client Sample ID: CV0509J-CS**

**Lab Sample ID: 680-88767-18**

Date Collected: 03/26/13 10:12

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Acenaphthylene</b>	<b>8.4</b>	<b>J</b>	61	7.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Anthracene</b>	<b>38</b>		13	6.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Benzo[a]anthracene</b>	<b>150</b>		12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Benzo[a]pyrene</b>	<b>100</b>		16	8.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Benzo[b]fluoranthene</b>	<b>180</b>		19	9.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Benzo[g,h,i]perylene</b>	<b>77</b>		31	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Benzo[k]fluoranthene</b>	<b>54</b>		12	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Chrysene</b>	<b>130</b>		14	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Dibenz(a,h)anthracene</b>	<b>26</b>	<b>J</b>	31	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Fluoranthene</b>	<b>310</b>		31	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	31	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>62</b>		31	11	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>1-Methylnaphthalene</b>	<b>21</b>	<b>J</b>	61	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>2-Methylnaphthalene</b>	<b>28</b>	<b>J</b>	61	11	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Naphthalene</b>	<b>42</b>	<b>J</b>	61	6.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Phenanthrene</b>	<b>190</b>		12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Pyrene</b>	<b>220</b>		31	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	71		30 - 130				04/03/13 11:18	04/04/13 20:24	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

**Client Sample ID: CV0509K-CS**

**Lab Sample ID: 680-88767-19**

Date Collected: 03/26/13 10:18

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Acenaphthylene	11	J	55	6.9	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Anthracene	68		12	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Benzo[a]anthracene	370		11	5.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Benzo[a]pyrene	250		14	7.2	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Benzo[b]fluoranthene	410		17	8.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Benzo[g,h,i]perylene	170		28	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Benzo[k]fluoranthene	220		11	5.0	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Chrysene	380		12	6.2	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Dibenz(a,h)anthracene	60		28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Fluoranthene	740		28	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Fluorene	31		28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Indeno[1,2,3-cd]pyrene	190		28	9.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
1-Methylnaphthalene	35	J	55	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
2-Methylnaphthalene	33	J	55	9.8	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Naphthalene	49	J	55	6.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Phenanthrene	310		11	5.4	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
Pyrene	630		28	5.1	ug/Kg	☼	04/03/13 11:18	04/04/13 20:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	68		30 - 130				04/03/13 11:18	04/04/13 20:42	1

**Client Sample ID: CV0509K-CSD**

**Lab Sample ID: 680-88767-20**

Date Collected: 03/26/13 10:20

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 69.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	68	J	140	28	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Acenaphthylene	13	J	57	7.1	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Anthracene	120		12	6.0	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Benzo[a]anthracene	340		11	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Benzo[a]pyrene	250		15	7.4	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Benzo[b]fluoranthene	380		17	8.7	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Benzo[g,h,i]perylene	170		28	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Benzo[k]fluoranthene	200		11	5.1	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Chrysene	300		13	6.4	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Dibenz(a,h)anthracene	51		28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Fluoranthene	790		28	5.7	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Fluorene	64		28	5.8	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Indeno[1,2,3-cd]pyrene	160		28	10	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
1-Methylnaphthalene	36	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
2-Methylnaphthalene	37	J	57	10	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Naphthalene	56	J	57	6.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Phenanthrene	570		11	5.5	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	1
Pyrene	590		28	5.3	ug/Kg	☼	04/03/13 11:18	04/04/13 21:00	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	69		30 - 130				04/03/13 11:18	04/04/13 21:00	1

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

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

**Lab Sample ID: MB 660-136063/1-A**

**Matrix: Solid**

**Analysis Batch: 136081**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 136063**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Fluorene	20	U	20	4.1	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Naphthalene	40	U	40	4.4	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/02/13 11:33	04/03/13 15:34	1
Pyrene	20	U	20	3.7	ug/Kg		04/02/13 11:33	04/03/13 15:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	80		30 - 130	04/02/13 11:33	04/03/13 15:34	1

**Lab Sample ID: LCS 660-136063/2-A**

**Matrix: Solid**

**Analysis Batch: 136081**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136063**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	458		ug/Kg		69	39 - 130
Acenaphthylene	668	488		ug/Kg		73	38 - 130
Anthracene	668	469		ug/Kg		70	37 - 130
Benzo[a]anthracene	668	484		ug/Kg		72	40 - 130
Benzo[a]pyrene	668	444		ug/Kg		66	49 - 130
Benzo[b]fluoranthene	668	516		ug/Kg		77	37 - 130
Benzo[g,h,i]perylene	668	418		ug/Kg		63	32 - 130
Benzo[k]fluoranthene	668	468		ug/Kg		70	32 - 130
Chrysene	668	462		ug/Kg		69	41 - 130
Dibenz(a,h)anthracene	668	471		ug/Kg		71	27 - 130
Fluoranthene	668	487		ug/Kg		73	40 - 130
Fluorene	668	444		ug/Kg		66	40 - 130
Indeno[1,2,3-cd]pyrene	668	399		ug/Kg		60	30 - 130
1-Methylnaphthalene	668	522		ug/Kg		78	31 - 130
2-Methylnaphthalene	668	458		ug/Kg		69	33 - 130
Naphthalene	668	484		ug/Kg		72	36 - 130
Phenanthrene	668	499		ug/Kg		75	42 - 130
Pyrene	668	516		ug/Kg		77	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

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

**Lab Sample ID: LCS 660-136063/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136081**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136063**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	72		30 - 130

**Lab Sample ID: MB 660-136072/1-A**  
**Matrix: Solid**  
**Analysis Batch: 136131**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 136072**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Acenaphthylene	40	U	40	4.9	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Fluorene	20	U	20	4.1	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Naphthalene	40	U	40	4.4	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		04/03/13 11:18	04/04/13 16:07	1
Pyrene	20	U	20	3.7	ug/Kg		04/03/13 11:18	04/04/13 16:07	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	87		30 - 130	04/03/13 11:18	04/04/13 16:07	1

**Lab Sample ID: LCS 660-136072/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136131**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 136072**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	657	472		ug/Kg		72	39 - 130
Acenaphthylene	657	556		ug/Kg		85	38 - 130
Anthracene	657	514		ug/Kg		78	37 - 130
Benzo[a]anthracene	657	596		ug/Kg		91	40 - 130
Benzo[a]pyrene	657	519		ug/Kg		79	49 - 130
Benzo[b]fluoranthene	657	559		ug/Kg		85	37 - 130
Benzo[g,h,i]perylene	657	504		ug/Kg		77	32 - 130
Benzo[k]fluoranthene	657	551		ug/Kg		84	32 - 130
Chrysene	657	564		ug/Kg		86	41 - 130
Dibenz(a,h)anthracene	657	538		ug/Kg		82	27 - 130
Fluoranthene	657	599		ug/Kg		91	40 - 130
Fluorene	657	514		ug/Kg		78	40 - 130
Indeno[1,2,3-cd]pyrene	657	486		ug/Kg		74	30 - 130
1-Methylnaphthalene	657	656		ug/Kg		100	31 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

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

**Lab Sample ID: LCS 660-136072/2-A**

**Matrix: Solid**

**Analysis Batch: 136131**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 136072**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	657	536		ug/Kg		81	33 - 130
Naphthalene	657	565		ug/Kg		86	36 - 130
Phenanthrene	657	552		ug/Kg		84	42 - 130
Pyrene	657	602		ug/Kg		92	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	79		30 - 130

**Lab Sample ID: 680-88767-14 MS**

**Matrix: Solid**

**Analysis Batch: 136131**

**Client Sample ID: CV0509F-CS**

**Prep Type: Total/NA**

**Prep Batch: 136072**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	130	U	840	609		ug/Kg	☼	72	39 - 130
Acenaphthylene	15	J	840	665		ug/Kg	☼	77	38 - 130
Anthracene	41		840	644		ug/Kg	☼	72	37 - 130
Benzo[a]anthracene	200		840	903		ug/Kg	☼	84	40 - 130
Benzo[a]pyrene	180		840	833		ug/Kg	☼	78	49 - 130
Benzo[b]fluoranthene	300		840	937		ug/Kg	☼	76	37 - 130
Benzo[g,h,i]perylene	130		840	760		ug/Kg	☼	75	32 - 130
Benzo[k]fluoranthene	110		840	973		ug/Kg	☼	102	32 - 130
Chrysene	210		840	959		ug/Kg	☼	90	41 - 130
Dibenz(a,h)anthracene	44		840	673		ug/Kg	☼	75	27 - 130
Fluoranthene	350		840	1080		ug/Kg	☼	87	40 - 130
Fluorene	19	J	840	622		ug/Kg	☼	72	40 - 130
Indeno[1,2,3-cd]pyrene	120		840	712		ug/Kg	☼	70	30 - 130
1-Methylnaphthalene	37	J	840	740		ug/Kg	☼	84	31 - 130
2-Methylnaphthalene	50		840	680		ug/Kg	☼	75	33 - 130
Naphthalene	45	J	840	663		ug/Kg	☼	74	36 - 130
Phenanthrene	230		840	823		ug/Kg	☼	71	42 - 130
Pyrene	320		840	1080		ug/Kg	☼	91	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	70		30 - 130

**Lab Sample ID: 680-88767-14 MSD**

**Matrix: Solid**

**Analysis Batch: 136131**

**Client Sample ID: CV0509F-CS**

**Prep Type: Total/NA**

**Prep Batch: 136072**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	130	U	840	686		ug/Kg	☼	82	39 - 130	12	40
Acenaphthylene	15	J	840	689		ug/Kg	☼	80	38 - 130	4	40
Anthracene	41		840	774		ug/Kg	☼	87	37 - 130	18	40
Benzo[a]anthracene	200		840	1050		ug/Kg	☼	101	40 - 130	15	40
Benzo[a]pyrene	180		840	987		ug/Kg	☼	97	49 - 130	17	40
Benzo[b]fluoranthene	300		840	1300		ug/Kg	☼	119	37 - 130	32	40
Benzo[g,h,i]perylene	130		840	834		ug/Kg	☼	84	32 - 130	9	40
Benzo[k]fluoranthene	110		840	952		ug/Kg	☼	100	32 - 130	2	40

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

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

Lab Sample ID: 680-88767-14 MSD

Matrix: Solid

Analysis Batch: 136131

Client Sample ID: CV0509F-CS

Prep Type: Total/NA

Prep Batch: 136072

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	210		840	1050		ug/Kg	*	101	41 - 130	9	40
Dibenz(a,h)anthracene	44		840	781		ug/Kg	*	88	27 - 130	15	40
Fluoranthene	350		840	1430		ug/Kg	*	129	40 - 130	28	40
Fluorene	19	J	840	716		ug/Kg	*	83	40 - 130	14	40
Indeno[1,2,3-cd]pyrene	120		840	854		ug/Kg	*	87	30 - 130	18	40
1-Methylnaphthalene	37	J	840	784		ug/Kg	*	89	31 - 130	6	40
2-Methylnaphthalene	50		840	758		ug/Kg	*	84	33 - 130	11	40
Naphthalene	45	J	840	687		ug/Kg	*	76	36 - 130	4	40
Phenanthrene	230		840	1190		ug/Kg	*	114	42 - 130	36	40
Pyrene	320		840	1310		ug/Kg	*	118	44 - 130	19	40
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	80		30 - 130								

# QC Association Summary

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## GC/MS Semi VOA

### Prep Batch: 136063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-1	CV0022A-CS	Total/NA	Solid	3546	
680-88767-2	CV0022A-CSD	Total/NA	Solid	3546	
680-88767-3	CV0509AB-GS	Total/NA	Solid	3546	
680-88767-4	CV0509AC-GS	Total/NA	Solid	3546	
680-88767-5	CV0509AD-GS	Total/NA	Solid	3546	
680-88767-6	CV0509AE-GS	Total/NA	Solid	3546	
680-88767-7	CV0509AF-GS	Total/NA	Solid	3546	
680-88767-8	CV0509A-CS	Total/NA	Solid	3546	
680-88767-9	CV0509B-CS	Total/NA	Solid	3546	
680-88767-10	CV0509C-CS	Total/NA	Solid	3546	
LCS 660-136063/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136063/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 136072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-11	CV0509C-CSD	Total/NA	Solid	3546	
680-88767-12	CV0509D-CS	Total/NA	Solid	3546	
680-88767-13	CV0509E-CS	Total/NA	Solid	3546	
680-88767-14	CV0509F-CS	Total/NA	Solid	3546	
680-88767-14 MS	CV0509F-CS	Total/NA	Solid	3546	
680-88767-14 MSD	CV0509F-CS	Total/NA	Solid	3546	
680-88767-15	CV0509G-CS	Total/NA	Solid	3546	
680-88767-16	CV0509H-CS	Total/NA	Solid	3546	
680-88767-17	CV0509I-CS	Total/NA	Solid	3546	
680-88767-18	CV0509J-CS	Total/NA	Solid	3546	
680-88767-19	CV0509K-CS	Total/NA	Solid	3546	
680-88767-20	CV0509K-CSD	Total/NA	Solid	3546	
LCS 660-136072/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136072/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 136081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-1	CV0022A-CS	Total/NA	Solid	8270C LL	136063
680-88767-2	CV0022A-CSD	Total/NA	Solid	8270C LL	136063
680-88767-3	CV0509AB-GS	Total/NA	Solid	8270C LL	136063
680-88767-4	CV0509AC-GS	Total/NA	Solid	8270C LL	136063
680-88767-5	CV0509AD-GS	Total/NA	Solid	8270C LL	136063
680-88767-6	CV0509AE-GS	Total/NA	Solid	8270C LL	136063
680-88767-7	CV0509AF-GS	Total/NA	Solid	8270C LL	136063
680-88767-8	CV0509A-CS	Total/NA	Solid	8270C LL	136063
680-88767-9	CV0509B-CS	Total/NA	Solid	8270C LL	136063
680-88767-10	CV0509C-CS	Total/NA	Solid	8270C LL	136063
LCS 660-136063/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136063
MB 660-136063/1-A	Method Blank	Total/NA	Solid	8270C LL	136063

### Analysis Batch: 136131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-11	CV0509C-CSD	Total/NA	Solid	8270C LL	136072
680-88767-12	CV0509D-CS	Total/NA	Solid	8270C LL	136072
680-88767-13	CV0509E-CS	Total/NA	Solid	8270C LL	136072
680-88767-14	CV0509F-CS	Total/NA	Solid	8270C LL	136072

TestAmerica Savannah



# QC Association Summary

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

TestAmerica Job ID: 680-88767-1  
SDG: 68088767-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 136131 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-14 MS	CV0509F-CS	Total/NA	Solid	8270C LL	136072
680-88767-14 MSD	CV0509F-CS	Total/NA	Solid	8270C LL	136072
680-88767-15	CV0509G-CS	Total/NA	Solid	8270C LL	136072
680-88767-16	CV0509H-CS	Total/NA	Solid	8270C LL	136072
680-88767-17	CV0509I-CS	Total/NA	Solid	8270C LL	136072
680-88767-18	CV0509J-CS	Total/NA	Solid	8270C LL	136072
680-88767-19	CV0509K-CS	Total/NA	Solid	8270C LL	136072
680-88767-20	CV0509K-CSD	Total/NA	Solid	8270C LL	136072
LCS 660-136072/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136072
MB 660-136072/1-A	Method Blank	Total/NA	Solid	8270C LL	136072

## General Chemistry

### Analysis Batch: 135922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88767-1	CV0022A-CS	Total/NA	Solid	Moisture	
680-88767-2	CV0022A-CSD	Total/NA	Solid	Moisture	
680-88767-3	CV0509AB-GS	Total/NA	Solid	Moisture	
680-88767-4	CV0509AC-GS	Total/NA	Solid	Moisture	
680-88767-5	CV0509AD-GS	Total/NA	Solid	Moisture	
680-88767-6	CV0509AE-GS	Total/NA	Solid	Moisture	
680-88767-7	CV0509AF-GS	Total/NA	Solid	Moisture	
680-88767-8	CV0509A-CS	Total/NA	Solid	Moisture	
680-88767-9	CV0509B-CS	Total/NA	Solid	Moisture	
680-88767-10	CV0509C-CS	Total/NA	Solid	Moisture	
680-88767-11	CV0509C-CSD	Total/NA	Solid	Moisture	
680-88767-12	CV0509D-CS	Total/NA	Solid	Moisture	
680-88767-13	CV0509E-CS	Total/NA	Solid	Moisture	
680-88767-14	CV0509F-CS	Total/NA	Solid	Moisture	
680-88767-15	CV0509G-CS	Total/NA	Solid	Moisture	
680-88767-16	CV0509H-CS	Total/NA	Solid	Moisture	
680-88767-17	CV0509I-CS	Total/NA	Solid	Moisture	
680-88767-18	CV0509J-CS	Total/NA	Solid	Moisture	
680-88767-19	CV0509K-CS	Total/NA	Solid	Moisture	
680-88767-20	CV0509K-CSD	Total/NA	Solid	Moisture	
680-88767-A-14 MS	680-88767-A-14 MS	Total/NA	Solid	Moisture	
680-88767-A-14 MSD	680-88767-A-14 MSD	Total/NA	Solid	Moisture	

# Lab Chronicle

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## Client Sample ID: CV0022A-CS

Lab Sample ID: 680-88767-1

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 58.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 18:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0022A-CSD

Lab Sample ID: 680-88767-2

Date Collected: 03/26/13 09:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 60.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 18:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509AB-GS

Lab Sample ID: 680-88767-3

Date Collected: 03/26/13 09:50

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 73.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136081	04/03/13 19:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509AC-GS

Lab Sample ID: 680-88767-4

Date Collected: 03/26/13 09:52

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 19:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509AD-GS

Lab Sample ID: 680-88767-5

Date Collected: 03/26/13 09:54

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 19:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## Client Sample ID: CV0509AE-GS

Lab Sample ID: 680-88767-6

Date Collected: 03/26/13 10:24

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 20:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509AF-GS

Lab Sample ID: 680-88767-7

Date Collected: 03/26/13 11:00

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 20:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509A-CS

Lab Sample ID: 680-88767-8

Date Collected: 03/26/13 08:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 20:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509B-CS

Lab Sample ID: 680-88767-9

Date Collected: 03/26/13 09:14

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 21:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509C-CS

Lab Sample ID: 680-88767-10

Date Collected: 03/26/13 09:23

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136063	04/02/13 11:33	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136081	04/03/13 21:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM



# Lab Chronicle

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## Client Sample ID: CV0509C-CSD

Lab Sample ID: 680-88767-11

Date Collected: 03/26/13 09:25

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 64.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 17:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509D-CS

Lab Sample ID: 680-88767-12

Date Collected: 03/26/13 09:38

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136131	04/04/13 17:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509E-CS

Lab Sample ID: 680-88767-13

Date Collected: 03/26/13 09:45

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136131	04/04/13 18:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509F-CS

Lab Sample ID: 680-88767-14

Date Collected: 03/26/13 09:55

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 18:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509G-CS

Lab Sample ID: 680-88767-15

Date Collected: 03/26/13 09:58

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 19:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## Client Sample ID: CV0509H-CS

Lab Sample ID: 680-88767-16

Date Collected: 03/26/13 10:05

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136131	04/04/13 19:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509I-CS

Lab Sample ID: 680-88767-17

Date Collected: 03/26/13 10:07

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 59.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 20:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509J-CS

Lab Sample ID: 680-88767-18

Date Collected: 03/26/13 10:12

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 65.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 20:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509K-CS

Lab Sample ID: 680-88767-19

Date Collected: 03/26/13 10:18

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 70.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 20:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	AG	TAL TAM

## Client Sample ID: CV0509K-CSD

Lab Sample ID: 680-88767-20

Date Collected: 03/26/13 10:20

Matrix: Solid

Date Received: 03/28/13 09:37

Percent Solids: 69.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136072	04/03/13 11:18	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136131	04/04/13 21:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135922	03/29/13 10:07	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

# 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 <b>35th Ave Removal</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>1</b> OF <b>5</b>
TAL (LAB) PROJECT MANAGER <b>Lisa Harvey</b>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>

(b) (6)  
CLIENT NAME  
(b) (6)  
CLIENT ADDRESS  
(b) (6)  
COMPANY CONTACT

COMPOSITE (C) OR GRAB (G) INDICATE  
AQUEOUS (WATER)  
SOLID OR SEMISOLID  
AIR  
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

**LL PAH**  
**SVOC**  
**Metals**

**PRESERVATIVE**

DATE DUE \_\_\_\_\_  
EXPEDITED REPORT DELIVERY (SURCHARGE)   
DATE DUE \_\_\_\_\_  
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

Page 26 of 31

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-26-13	0900	CW0509A - CS	G	X			X		
	0900	CW0509A - CSD	C	X					
	0950	CW0509AB - GS	G	X					
	0952	CW0509AC - GS	G	X					
	0954	CW0509AD - GS	G	X					
	1024	CW0509AE - GS	G	X					
	1100	CW0509AF - GS	G	X					
	0858	CW0509A - CS	C	X					
	0914	CW0509B - CS	C	X					
	0923	CW0509C - CS	C	X					
	0925	CW0509C - CSD	C	X					
	0938	CW0509D - CS	C	X					

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3-27-13</b>	TIME <b>1400</b>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

4/9/2013

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>03/28/13</b>	TIME <b>0937</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-88767</b>	LABORATORY REMARKS <b>1.4</b>
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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 <b>35th Ave Removal</b>	PROJECT NO. <b>2005148-1356</b>	PROJECT LOCATION (STATE) <b>AL</b>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <b>2</b>	OF <b>5</b>
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TAL (LAB) PROJECT MANAGER <b>Lisa Harvey</b>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
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COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	SVOC	Metals	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
	<b>PRESERVATIVE</b>								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

NUMBER OF CONTAINERS SUBMITTED	REMARKS
--------------------------------	---------

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	SVOC	Metals	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-26-13	0945	CV0509 E - CS	C	X			X					
	0955	CV0509 F - CS	C	X			X		X			
	0958	CV0509 G - CS	C	X			X	X				
	1005	CV0509 H - CS	C	X			X					
	1007	CV0509 I - CS	C	X			X					
	1012	CV0509 J - CS	C	X			X					
	1018	CV0509 K - CS	C	X			X					
	1020	CV0509 K - CSD	C	X			X					
	1022	CV0509 L - CS	C	X			X					
	1034	CV0509 M - CS	C	X			X					
	1040	CV0509 N - CS	C	X			X					
	1045	CV0509 O - CS	C	X			X	X				

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>3-26-13</b>	TIME <b>1400</b>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <b>03/28/13</b>	TIME <b>0937</b>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <b>680-88767</b>	LABORATORY REMARKS <b>1.4e</b>
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(b) (6)  
(b) (6)

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4/9/2013



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

SDG Number: 68088767-1

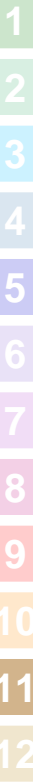
**Login Number: 88767**

**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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88767-1

SDG Number: 68088767-1

**Login Number: 88767**

**List Number: 1**

**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**

**List Creation: 03/29/13 09:17 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# Certification Summary

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

TestAmerica Job ID: 680-88767-1  
 SDG: 68088767-1

## 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.

# Certification Summary

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

TestAmerica Job ID: 680-88767-1  
SDG: 68088767-1

## Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-11-00177	04-20-14

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