

**REDACTED**

### Data Validation Checklist Semivolatile Organic Analyses

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

Project No: 15268508.20000  
 Job ID.: 680-90852-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Samples Collected: 05/28/2013 and 05/29/2013  
 Date: 06/25/2013  
 Date: 06/29/2013

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?	✓			There was a discrepancy between bottle labels and the Chain-of-Custody record concerning Sample IDs. The sample IDs that were recorded on the bottle labels were entered into LIMS at the request of the client.	
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?			✓	A rinsate blank was not collected for the week of 5/27/13.	

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

<sup>2</sup> Independent technical reviewer

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. However, a rinsate blank, was <b>not</b> collected during the week of 5/27/13.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> <li>CV0650A-CSD (680-90852-4) is a field duplicate of CV0650A-CS (680-90622-3).</li> <li>CV0696A-CSD (680-90852-7) is a field duplicate of CV0696A-CS (680-90852-6).</li> <li>CV1248B-CSD (680-90852-19) is a field duplicate of CV1248B-CS (680-90852-18).</li> </ul>	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>An initial calibration is to be associated with each sample analysis.</li> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>Instrument ID: BSMA5973</li> <li>Initial Calibration: 05/30/2013</li> <li>ICV: 05/30/13 @ 16:53</li> <li>Instrument ID: BSMC5973</li> <li>Initial Calibration: 05/22/2013</li> <li>ICV: 05/22/13 @ 18:24</li> <li>CCV: 06/05/13 @ 11:24</li> <li>Instrument ID: BSMD5973</li> <li>Initial Calibration: 05/23/2013</li> <li>ICV: 05/23/13 @ 15:41</li> <li>CCV: 06/05/13 @ 11:54</li> <li>CCV: 06/06/13 @ 12:56</li> <li>CCV: 06/09/13 @ 10:03</li> </ul>	
19. Were calibration results within laboratory/project specifications?	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>Prep Batch 137999: 680-90852-9 (FM0322A-CS-SP), MS/MSD</li> <li>Prep Batch 138015: 680-90852-22 (Batch sample), MS/MSD. Lab sample 680-90852-22 is a project-specific sample (FM0098C-CS-SP) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90852-2.</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> <li>If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> </ul>		✓		FM0322A-CS-SP (680-90852-9): Benzo[a]pyrene @ 44 and 51 %R (49-130). Qualification of data not required <sup>3</sup> .	

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

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>					
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result.</li> </ul>	✓				
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>		✓		CV0650A-CS (680-90852-3): o-Terphenyl @ 28 %R (30-130%R). J and UJ-Flag positive and ND results, respectively.	J/UJ
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <ul style="list-style-type: none"> <li>If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may</li> </ul>	✓				

## Data Validation Checklist (Continued)

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

**DV Flag Definitions:**

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

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

# Sample Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90852-1	CV0305A-CS	Solid	05/28/13 14:00	05/31/13 08:53
680-90852-2	CV0305B-CS	Solid	05/28/13 14:10	05/31/13 08:53
680-90852-3	CV0650A-CS	Solid	05/28/13 13:20	05/31/13 08:53
680-90852-4	CV0650A-CSD	Solid	05/28/13 13:20	05/31/13 08:53
680-90852-5	CV0650B-CS	Solid	05/28/13 13:30	05/31/13 08:53
680-90852-6	CV0696A-CS	Solid	05/28/13 12:40	05/31/13 08:53
680-90852-7	CV0696A-CSD	Solid	05/28/13 12:40	05/31/13 08:53
680-90852-8	CV0696B-CS	Solid	05/28/13 12:50	05/31/13 08:53
680-90852-9	FM0322A-CS-SP	Solid	05/28/13 13:36	05/31/13 08:53
680-90852-10	FM0322B-CS-SP	Solid	05/28/13 13:44	05/31/13 08:53
680-90852-11	FM0348A-CS-SP	Solid	05/28/13 14:28	05/31/13 08:53
680-90852-12	FM0348B-CS-SP	Solid	05/28/13 14:34	05/31/13 08:53
680-90852-13	FM0349A-CS-SP	Solid	05/28/13 14:54	05/31/13 08:53
680-90852-14	FM0349B-CS-SP	Solid	05/28/13 15:07	05/31/13 08:53
680-90852-16	CV0995A-CS	Solid	05/29/13 10:30	05/31/13 08:53
680-90852-17	CV1248A-CS	Solid	05/29/13 08:35	05/31/13 08:53
680-90852-18	CV1248B-CS	Solid	05/29/13 08:45	05/31/13 08:53
680-90852-19	CV1248B-CSD	Solid	05/29/13 08:45	05/31/13 08:53
680-90852-20	FM0098A-CS-SP	Solid	05/29/13 09:01	05/31/13 08:53
680-90852-21	FM0098B-CS-SP	Solid	05/29/13 09:12	05/31/13 08:53

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



Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0696A-CS 680-90852-6	RL	CV0696A-CSD 680-90852-7	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	39	J 47	29	J 48	µg/kg	237.5	NA	10	95	None, absolute difference ≤ 2x Avg RL
Anthracene	65	10	76	10	µg/kg	50	16	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	210	9.4	250	9.7	µg/kg	47.75	17	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	230	12	250	13	µg/kg	62.5	8	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	440	14	480	15	µg/kg	72.5	9	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	150	23	140	24	µg/kg	117.5	7	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	140	9.4	170	9.7	µg/kg	47.75	19	NA	NA	None, RPD ≤ 50%
Chrysene	350	11	400	11	µg/kg	55	13	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	53	23	52	24	µg/kg	117.5	NA	1	47	None, absolute difference ≤ 2x Avg RL
Fluoranthene	430	23	560	24	µg/kg	117.5	26	NA	NA	None, RPD ≤ 50%
Fluorene	30	23	36	24	µg/kg	117.5	NA	6	47	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	140	23	130	24	µg/kg	117.5	7	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	180	47	170	48	µg/kg	237.5	NA	10	95	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	260	47	250	48	µg/kg	237.5	4	NA	NA	None, RPD ≤ 50%
Naphthalene	210	47	200	48	µg/kg	237.5	NA	10	95	None, absolute difference ≤ 2x Avg RL
Phenanthrene	400	9.4	440	9.7	µg/kg	47.75	10	NA	NA	None, RPD ≤ 50%
Pyrene	330	23	400	24	µg/kg	117.5	19	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

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	CV0650A-CS 680-90852-3	RL	CV0650A-CSD 680-90852-4	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	130	47	250	47	µg/kg	235	NA	120	94	J/UJ-flag, absolute difference > 2x Avg RL
Anthracene	53	10	100	9.9	µg/kg	49.75	61	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	120	9.5	230	9.4	µg/kg	47.25	63	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	98	12	210	12	µg/kg	60	73	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	220	14	470	14	µg/kg	70	72	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	77	24	150	24	µg/kg	120	NA	73	48	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	49	9.5	110	9.4	µg/kg	47.25	77	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	250	11	460	11	µg/kg	55	59	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	32	24	55	24	µg/kg	120	NA	23	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	280	24	500	24	µg/kg	120	56	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	46	24	72	24	µg/kg	120	NA	26	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	70	24	130	24	µg/kg	120	NA	60	48	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	210	47	310	47	µg/kg	235	NA	100	94	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	270	47	400	47	µg/kg	235	39	NA	NA	None, RPD ≤ 50%
Naphthalene	660	47	900	47	µg/kg	235	31	NA	NA	None, RPD ≤ 50%
Phenanthrene	380	9.5	650	9.4	µg/kg	47.25	52	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	210	24	380	24	µg/kg	120	58	NA	NA	J/UJ-flag, RPD > 50%

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

µg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1248B-CS 680-90852-18	RL	CV1248B-CSD 680-90852-19	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	160	J 200	110	J 200	µg/kg	1000	NA	50	400	None, absolute difference ≤ 2x Avg RL
Anthracene	310	43	180	42	µg/kg	212.5	NA	130	85	<b>J/UJ-flag, absolute difference &gt; 2x Avg RL</b>
Benzo(a)anthracene	630	41	380	40	µg/kg	202.5	50	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	610	53	390	52	µg/kg	262.5	44	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1100	63	670	61	µg/kg	310	49	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	460	100	310	100	µg/kg	500	NA	150	200	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	290	41	240	40	µg/kg	202.5	19	NA	NA	None, RPD ≤ 50%
Chrysene	830	46	500	45	µg/kg	227.5	50	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	180	100	120	100	µg/kg	500	NA	60	200	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1100	100	570	100	µg/kg	500	63	NA	NA	<b>J/UJ-flag, RPD &gt; 50%</b>
Fluorene	94	J 100	47	J 100	µg/kg	500	NA	47	200	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	440	100	300	100	µg/kg	500	NA	140	200	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	410	200	360	200	µg/kg	1000	NA	50	400	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	450	200	290	200	µg/kg	1000	NA	160	400	None, absolute difference ≤ 2x Avg RL
Naphthalene	380	200	210	200	µg/kg	1000	NA	170	400	None, absolute difference ≤ 2x Avg RL
Phenanthrene	1100	41	600	40	µg/kg	202.5	59	NA	NA	<b>J/UJ-flag, RPD &gt; 50%</b>
Pyrene	880	100	490	100	µg/kg	500	NA	390	200	<b>J/UJ-flag, absolute difference &gt; 2x Avg RL</b>

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

µg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

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

## Case Narrative

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

**Job ID: 680-90852-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90852-1**

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0650B-CS (680-90852-5). The container labels list CV0650B-CS. The COC lists CV0650B-CSD. Client confirmed sample as CV0650B-CS.

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

Samples CV0305A-CS (680-90852-1), CV0305B-CS (680-90852-2), CV0650A-CS (680-90852-3), CV0650A-CSD (680-90852-4), CV0650B CS (680 90852 5), CV0696A CS (680 90852 6), CV0696A CSD (680 90852 7), CV0696B CS (680-90852 8), FM0322A CS-SP (680-90852-9), FM0322B-CS-SP (680-90852-10), FM0348A-CS-SP (680-90852-11), FM0348B-CS-SP (680-90852-12), FM0349A-CS-SP (680-90852-13), FM0349B-CS-SP (680-90852-14), CV0995A-CS (680-90852-16), CV1248A-CS (680-90852-17), CV1248B-CS (680-90852-18), CV1248B-CSD (680-90852-19), FM0098A-CS-SP (680-90852-20) and FM0098B-CS-SP (680-90852-21) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and 06/04/2013 and analyzed on 06/05/2013, 06/06/2013 and 06/09/2013.

Samples CV0305A-CS (680-90852-1)[4X], CV0305B-CS (680-90852-2)[4X], FM0348A-CS-SP (680-90852-11)[4X], FM0349A-CS-SP (680-90852-13)[4X], CV0995A-CS (680-90852-16)[4X], CV1248A-CS (680-90852-17)[4X], CV1248B-CS (680-90852-18)[4X] and CV1248B-CSD (680-90852-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0650A-CS (680-90852-3).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0322A-CS-SPMS (680-90852-9) in batch 660-138101 and sample 680-90852-22 in batch 660-138216.

No other difficulties were encountered during the SVOAs analysis.

All other 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: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0305A-CS**

**Lab Sample ID: 680-90852-1**

Date Collected: 05/28/13 14:00

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	510	100	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Acenaphthylene	76	J	200	25	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Anthracene	390		43	21	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Benzo[a]anthracene	1000		41	20	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Benzo[a]pyrene	950		53	27	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Benzo[b]fluoranthene	1400		62	31	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Benzo[g,h,i]perylene	580		100	22	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Benzo[k]fluoranthene	580		41	18	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Chrysene	1200		46	23	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Dibenz(a,h)anthracene	220		100	21	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Fluoranthene	2200		100	20	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Fluorene	170		100	21	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Indeno[1,2,3-cd]pyrene	570		100	36	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
1-Methylnaphthalene	1000		200	22	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
2-Methylnaphthalene	1300		200	36	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Naphthalene	700		200	22	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Phenanthrene	2000		41	20	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4
Pyrene	1700		100	19	ug/Kg	*	06/03/13 13:04	06/06/13 15:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	06/03/13 13:04	06/06/13 15:12	4

**Client Sample ID: CV0305B-CS**

**Lab Sample ID: 680-90852-2**

Date Collected: 05/28/13 14:10

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 67.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300		590	120	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Acenaphthylene	310		240	30	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Anthracene	3000		50	25	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Benzo[a]anthracene	6400		47	23	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Benzo[a]pyrene	6200		61	31	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Benzo[b]fluoranthene	9600		72	36	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Benzo[g,h,i]perylene	3400		120	26	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Benzo[k]fluoranthene	3100		47	21	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Chrysene	6800		53	27	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Dibenz(a,h)anthracene	1100		120	24	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Fluoranthene	15000		120	24	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Fluorene	1200		120	24	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Indeno[1,2,3-cd]pyrene	3500		120	42	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
1-Methylnaphthalene	1500		240	26	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
2-Methylnaphthalene	1600		240	42	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Naphthalene	1200		240	26	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Phenanthrene	11000		47	23	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4
Pyrene	11000		120	22	ug/Kg	*	06/03/13 13:04	06/06/13 15:35	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130	06/03/13 13:04	06/06/13 15:35	4

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

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0650A-CS**

**Lab Sample ID: 680-90852-3**

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Acenaphthylene</b>	<b>130</b>		47	5.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Anthracene</b>	<b>53</b>		10	5.0	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[a]anthracene</b>	<b>120</b>		9.5	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[a]pyrene</b>	<b>98</b>		12	6.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		14	7.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[g,h,i]perylene</b>	<b>77</b>		24	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		9.5	4.3	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Chrysene</b>	<b>250</b>		11	5.3	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Dibenz(a,h)anthracene</b>	<b>32</b>		24	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Fluoranthene</b>	<b>280</b>		24	4.7	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Fluorene</b>	<b>46</b>		24	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>70</b>		24	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>1-Methylnaphthalene</b>	<b>210</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>2-Methylnaphthalene</b>	<b>270</b>		47	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Naphthalene</b>	<b>660</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Phenanthrene</b>	<b>380</b>		9.5	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Pyrene</b>	<b>210</b>		24	4.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	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	28	X	30 - 130				06/03/13 13:04	06/06/13 15:58	1

**Client Sample ID: CV0650A-CSD**

**Lab Sample ID: 680-90852-4**

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Acenaphthylene</b>	<b>250</b>		47	5.9	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Anthracene</b>	<b>100</b>		9.9	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[a]anthracene</b>	<b>230</b>		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[a]pyrene</b>	<b>210</b>		12	6.1	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[b]fluoranthene</b>	<b>470</b>		14	7.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[g,h,i]perylene</b>	<b>150</b>		24	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[k]fluoranthene</b>	<b>110</b>		9.4	4.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Chrysene</b>	<b>460</b>		11	5.3	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Dibenz(a,h)anthracene</b>	<b>55</b>		24	4.8	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Fluoranthene</b>	<b>500</b>		24	4.7	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Fluorene</b>	<b>72</b>		24	4.8	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b>		24	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>1-Methylnaphthalene</b>	<b>310</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>2-Methylnaphthalene</b>	<b>400</b>		47	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Naphthalene</b>	<b>900</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Phenanthrene</b>	<b>650</b>		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Pyrene</b>	<b>380</b>		24	4.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	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	54		30 - 130				06/03/13 13:04	06/06/13 16:21	1

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

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0650B-CS**

**Lab Sample ID: 680-90852-5**

Date Collected: 05/28/13 13:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	120	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Acenaphthylene	460		49	6.1	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Anthracene	250		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[a]anthracene	700		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[a]pyrene	850		13	6.3	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[b]fluoranthene	1800		15	7.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[g,h,i]perylene	580		24	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[k]fluoranthene	450		9.7	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Chrysene	1300		11	5.5	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Dibenz(a,h)anthracene	190		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Fluoranthene	2000		24	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Fluorene	120		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Indeno[1,2,3-cd]pyrene	550		24	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
1-Methylnaphthalene	420		49	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
2-Methylnaphthalene	540		49	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Naphthalene	2600		49	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Phenanthrene	1800		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Pyrene	1400		24	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	69		30 - 130				06/03/13 13:04	06/05/13 21:41	1

**Client Sample ID: CV0696A-CS**

**Lab Sample ID: 680-90852-6**

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Acenaphthylene	39	J	47	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Anthracene	65		9.9	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[a]anthracene	210		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[a]pyrene	230		12	6.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[b]fluoranthene	440		14	7.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[g,h,i]perylene	150		23	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[k]fluoranthene	140		9.4	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Chrysene	350		11	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Dibenz(a,h)anthracene	53		23	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Fluoranthene	430		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Fluorene	30		23	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Indeno[1,2,3-cd]pyrene	140		23	8.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
1-Methylnaphthalene	180		47	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
2-Methylnaphthalene	260		47	8.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Naphthalene	210		47	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Phenanthrene	400		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Pyrene	330		23	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	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				06/03/13 13:04	06/05/13 22:04	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0696A-CSD**

**Lab Sample ID: 680-90852-7**

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Acenaphthylene	29	J	48	6.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Anthracene	76		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[a]anthracene	250		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[a]pyrene	250		13	6.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[b]fluoranthene	480		15	7.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[g,h,i]perylene	140		24	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[k]fluoranthene	170		9.7	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Chrysene	400		11	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Dibenz(a,h)anthracene	52		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Fluoranthene	560		24	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Fluorene	36		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Indeno[1,2,3-cd]pyrene	130		24	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
1-Methylnaphthalene	170		48	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
2-Methylnaphthalene	250		48	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Naphthalene	200		48	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Phenanthrene	440		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Pyrene	400		24	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	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	68		30 - 130				06/03/13 13:04	06/05/13 22:27	1

**Client Sample ID: CV0696B-CS**

**Lab Sample ID: 680-90852-8**

Date Collected: 05/28/13 12:50

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Acenaphthylene	16	J	51	6.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Anthracene	26		11	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[a]anthracene	83		10	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[a]pyrene	98		13	6.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[b]fluoranthene	190		16	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[g,h,i]perylene	63		26	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[k]fluoranthene	53		10	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Chrysene	180		12	5.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Dibenz(a,h)anthracene	28		26	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Fluoranthene	150		26	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Fluorene	15	J	26	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Indeno[1,2,3-cd]pyrene	64		26	9.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
1-Methylnaphthalene	110		51	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
2-Methylnaphthalene	160		51	9.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Naphthalene	170		51	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Phenanthrene	200		10	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Pyrene	110		26	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	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	60		30 - 130				06/03/13 13:04	06/05/13 22:49	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0322A-CS-SP**

**Lab Sample ID: 680-90852-9**

Date Collected: 05/28/13 13:36

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Acenaphthylene	11	J	44	5.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Anthracene	14		9.2	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[a]anthracene	63		8.7	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[a]pyrene	59	F	11	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[b]fluoranthene	100		13	6.7	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[g,h,i]perylene	90		22	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[k]fluoranthene	41		8.7	3.9	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Chrysene	110		9.8	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Dibenz(a,h)anthracene	18	J	22	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Fluoranthene	95		22	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Fluorene	11	J	22	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Indeno[1,2,3-cd]pyrene	47		22	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
1-Methylnaphthalene	65		44	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
2-Methylnaphthalene	120		44	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Naphthalene	64		44	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Phenanthrene	110		8.7	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Pyrene	86		22	4.0	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	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	55		30 - 130				06/03/13 13:04	06/05/13 19:49	1

**Client Sample ID: FM0322B-CS-SP**

**Lab Sample ID: 680-90852-10**

Date Collected: 05/28/13 13:44

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Acenaphthylene	23	J	46	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Anthracene	38		9.6	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[a]anthracene	130		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[a]pyrene	96		12	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[b]fluoranthene	180		14	7.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[g,h,i]perylene	110		23	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[k]fluoranthene	40		9.1	4.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Chrysene	200		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Dibenz(a,h)anthracene	29		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Fluoranthene	160		23	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Fluorene	18	J	23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Indeno[1,2,3-cd]pyrene	50		23	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
1-Methylnaphthalene	340		46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
2-Methylnaphthalene	510		46	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Naphthalene	110		46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Phenanthrene	570		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Pyrene	160		23	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				06/03/13 13:04	06/05/13 23:12	1

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

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0348A-CS-SP**

**Lab Sample ID: 680-90852-11**

Date Collected: 05/28/13 14:28

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	91	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Acenaphthylene</b>	<b>280</b>		180	23	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Anthracene</b>	<b>390</b>		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[a]anthracene</b>	<b>750</b>		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[a]pyrene</b>	<b>810</b>		48	24	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[b]fluoranthene</b>	<b>1400</b>		56	28	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[g,h,i]perylene</b>	<b>370</b>		91	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[k]fluoranthene</b>	<b>540</b>		37	16	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Chrysene</b>	<b>910</b>		41	21	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Dibenz(a,h)anthracene</b>	<b>150</b>		91	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Fluoranthene</b>	<b>1700</b>		91	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Fluorene</b>	<b>79</b>	J	91	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>410</b>		91	32	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>1-Methylnaphthalene</b>	<b>140</b>	J	180	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>2-Methylnaphthalene</b>	<b>170</b>	J	180	32	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Naphthalene</b>	<b>170</b>	J	180	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Phenanthrene</b>	<b>1100</b>		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Pyrene</b>	<b>1200</b>		91	17	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	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	79		30 - 130				06/03/13 13:04	06/05/13 23:34	4

**Client Sample ID: FM0348B-CS-SP**

**Lab Sample ID: 680-90852-12**

Date Collected: 05/28/13 14:34

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.5

**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	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Acenaphthylene</b>	<b>39</b>	J	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Anthracene</b>	<b>48</b>		10	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[a]anthracene</b>	<b>180</b>		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[a]pyrene</b>	<b>190</b>		12	6.2	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[b]fluoranthene</b>	<b>300</b>		15	7.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[k]fluoranthene</b>	<b>110</b>		9.6	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Chrysene</b>	<b>250</b>		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Dibenz(a,h)anthracene</b>	<b>52</b>		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Fluoranthene</b>	<b>330</b>		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Fluorene</b>	<b>15</b>	J	24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		24	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>1-Methylnaphthalene</b>	<b>110</b>		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>2-Methylnaphthalene</b>	<b>100</b>		48	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Naphthalene</b>	<b>79</b>		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Phenanthrene</b>	<b>240</b>		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Pyrene</b>	<b>280</b>		24	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				06/04/13 06:47	06/09/13 11:57	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0349A-CS-SP**

**Lab Sample ID: 680-90852-13**

Date Collected: 05/28/13 14:54

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Acenaphthylene</b>	<b>35</b>	<b>J</b>	210	26	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Anthracene</b>	<b>47</b>		44	22	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[a]anthracene</b>	<b>210</b>		42	20	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[a]pyrene</b>	<b>240</b>		54	27	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[b]fluoranthene</b>	<b>350</b>		63	32	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[g,h,i]perylene</b>	<b>190</b>		100	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		42	19	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Chrysene</b>	<b>280</b>		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Dibenz(a,h)anthracene</b>	<b>75</b>	<b>J</b>	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Fluoranthene</b>	<b>380</b>		100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
Fluorene	100	U	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>210</b>		100	37	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>1-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	210	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>2-Methylnaphthalene</b>	<b>190</b>	<b>J</b>	210	37	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Naphthalene</b>	<b>140</b>	<b>J</b>	210	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Phenanthrene</b>	<b>280</b>		42	20	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Pyrene</b>	<b>320</b>		100	19	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	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	62		30 - 130				06/04/13 06:47	06/09/13 12:19	4

**Client Sample ID: FM0349B-CS-SP**

**Lab Sample ID: 680-90852-14**

Date Collected: 05/28/13 15:07

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>45</b>	<b>J</b>	120	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Acenaphthylene</b>	<b>28</b>	<b>J</b>	47	5.9	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Anthracene</b>	<b>110</b>		9.8	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[a]anthracene</b>	<b>310</b>		9.4	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[a]pyrene</b>	<b>280</b>		12	6.1	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[b]fluoranthene</b>	<b>420</b>		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[g,h,i]perylene</b>	<b>200</b>		23	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[k]fluoranthene</b>	<b>170</b>		9.4	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Chrysene</b>	<b>330</b>		11	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Dibenz(a,h)anthracene</b>	<b>64</b>		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Fluoranthene</b>	<b>690</b>		23	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Fluorene</b>	<b>49</b>		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190</b>		23	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>1-Methylnaphthalene</b>	<b>93</b>		47	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>2-Methylnaphthalene</b>	<b>100</b>		47	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Naphthalene</b>	<b>77</b>		47	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Phenanthrene</b>	<b>500</b>		9.4	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Pyrene</b>	<b>500</b>		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	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	71		30 - 130				06/04/13 06:47	06/09/13 12:42	1

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0995A-CS**

**Lab Sample ID: 680-90852-16**

Date Collected: 05/29/13 10:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	640	U	640	130	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Acenaphthylene</b>	<b>100</b>	<b>J</b>	260	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Anthracene</b>	<b>160</b>		54	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[a]anthracene</b>	<b>360</b>		51	25	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[a]pyrene</b>	<b>270</b>		66	33	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[b]fluoranthene</b>	<b>500</b>		78	39	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[g,h,i]perylene</b>	<b>200</b>		130	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[k]fluoranthene</b>	<b>130</b>		51	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Chrysene</b>	<b>570</b>		57	29	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Dibenz(a,h)anthracene</b>	<b>110</b>	<b>J</b>	130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Fluoranthene</b>	<b>580</b>		130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Fluorene</b>	<b>80</b>	<b>J</b>	130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>210</b>		130	45	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>1-Methylnaphthalene</b>	<b>1200</b>		260	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>2-Methylnaphthalene</b>	<b>1400</b>		260	45	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Naphthalene</b>	<b>940</b>		260	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Phenanthrene</b>	<b>1000</b>		51	25	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Pyrene</b>	<b>460</b>		130	24	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	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	55		30 - 130				06/04/13 06:47	06/09/13 13:04	4

**Client Sample ID: CV1248A-CS**

**Lab Sample ID: 680-90852-17**

Date Collected: 05/29/13 08:35

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Acenaphthylene</b>	<b>52</b>	<b>J</b>	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Anthracene</b>	<b>200</b>		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[a]anthracene</b>	<b>520</b>		36	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[a]pyrene</b>	<b>490</b>		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[b]fluoranthene</b>	<b>770</b>		55	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[g,h,i]perylene</b>	<b>390</b>		90	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[k]fluoranthene</b>	<b>270</b>		36	16	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Chrysene</b>	<b>590</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Dibenz(a,h)anthracene</b>	<b>130</b>		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Fluoranthene</b>	<b>1000</b>		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Fluorene</b>	<b>72</b>	<b>J</b>	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		90	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>1-Methylnaphthalene</b>	<b>220</b>		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>2-Methylnaphthalene</b>	<b>280</b>		180	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Naphthalene</b>	<b>190</b>		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Phenanthrene</b>	<b>890</b>		36	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Pyrene</b>	<b>800</b>		90	17	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	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	82		30 - 130				06/04/13 06:47	06/09/13 13:27	4

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

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV1248B-CS**

**Lab Sample ID: 680-90852-18**

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Acenaphthylene</b>	<b>160</b>	<b>J</b>	200	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Anthracene</b>	<b>310</b>		43	22	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[a]anthracene</b>	<b>630</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[a]pyrene</b>	<b>610</b>		53	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[b]fluoranthene</b>	<b>1100</b>		63	31	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[g,h,i]perylene</b>	<b>460</b>		100	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[k]fluoranthene</b>	<b>290</b>		41	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Chrysene</b>	<b>830</b>		46	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Dibenz(a,h)anthracene</b>	<b>180</b>		100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Fluoranthene</b>	<b>1100</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Fluorene</b>	<b>94</b>	<b>J</b>	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>440</b>		100	36	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>1-Methylnaphthalene</b>	<b>410</b>		200	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>2-Methylnaphthalene</b>	<b>450</b>		200	36	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Naphthalene</b>	<b>380</b>		200	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Phenanthrene</b>	<b>1100</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Pyrene</b>	<b>880</b>		100	19	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	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	70		30 - 130				06/04/13 06:47	06/09/13 13:50	4

**Client Sample ID: CV1248B-CSD**

**Lab Sample ID: 680-90852-19**

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Acenaphthylene</b>	<b>110</b>	<b>J</b>	200	25	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Anthracene</b>	<b>180</b>		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[a]anthracene</b>	<b>380</b>		40	19	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[a]pyrene</b>	<b>390</b>		52	26	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[b]fluoranthene</b>	<b>670</b>		61	30	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		100	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[k]fluoranthene</b>	<b>240</b>		40	18	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Chrysene</b>	<b>500</b>		45	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Dibenz(a,h)anthracene</b>	<b>120</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Fluoranthene</b>	<b>570</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Fluorene</b>	<b>47</b>	<b>J</b>	100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>300</b>		100	35	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>1-Methylnaphthalene</b>	<b>360</b>		200	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>2-Methylnaphthalene</b>	<b>290</b>		200	35	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Naphthalene</b>	<b>210</b>		200	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Phenanthrene</b>	<b>600</b>		40	19	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Pyrene</b>	<b>490</b>		100	18	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	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	79		30 - 130				06/04/13 06:47	06/09/13 14:12	4

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

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0098A-CS-SP**

**Lab Sample ID: 680-90852-20**

Date Collected: 05/29/13 09:01

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 80.5

**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	☼	06/04/13 06:47	06/09/13 14:35	1
Acenaphthylene	40	J	50	6.2	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Anthracene	55		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[a]anthracene	110		9.9	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[a]pyrene	120		13	6.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[b]fluoranthene	290		15	7.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[g,h,i]perylene	82		25	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[k]fluoranthene	66		9.9	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Chrysene	170		11	5.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Dibenz(a,h)anthracene	33		25	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Fluoranthene	180		25	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Fluorene	13	J	25	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Indeno[1,2,3-cd]pyrene	83		25	8.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
1-Methylnaphthalene	53		50	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
2-Methylnaphthalene	100		50	8.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Naphthalene	96		50	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Phenanthrene	150		9.9	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Pyrene	140		25	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	72		30 - 130				06/04/13 06:47	06/09/13 14:35	1

**Client Sample ID: FM0098B-CS-SP**

**Lab Sample ID: 680-90852-21**

Date Collected: 05/29/13 09:12

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Acenaphthylene	34	J	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Anthracene	76		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[a]anthracene	170		9.7	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[a]pyrene	170		13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[b]fluoranthene	340		15	7.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[g,h,i]perylene	99		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[k]fluoranthene	99		9.7	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Chrysene	250		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Dibenz(a,h)anthracene	41		24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Fluoranthene	280		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Fluorene	15	J	24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Indeno[1,2,3-cd]pyrene	110		24	8.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
1-Methylnaphthalene	170		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
2-Methylnaphthalene	250		48	8.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Naphthalene	250		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Phenanthrene	270		9.7	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Pyrene	220		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	67		30 - 130				06/04/13 06:47	06/09/13 14:57	1

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



## ANALYTICAL REPORT

Job Number: 680-90852-1

SDG Number: 68090852-1

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  
6/12/2013 6:27 PM

---

Designee for  
Lisa Harvey, Project Manager II  
5102 LaRoche Avenue, Savannah, GA, 31404  
(912)354-7858 e.3221  
lisa.harvey@testamericainc.com  
06/12/2013

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.

Savannah Certifications and ID #: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

**TestAmerica Laboratories, Inc.**

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404  
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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90852-1**

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0650B-CS (680-90852-5). The container labels list CV0650B-CS. The COC lists CV0650B-CSD. Client confirmed sample as CV0650B-CS.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0305A-CS (680-90852-1), CV0305B-CS (680-90852-2), CV0650A-CS (680-90852-3), CV0650A-CSD (680-90852-4), CV0650B-CS (680-90852-5), CV0696A-CS (680-90852-6), CV0696A-CSD (680-90852-7), CV0696B-CS (680-90852-8), FM0322A-CS-SP (680-90852-9), FM0322B-CS-SP (680-90852-10), FM0348A-CS-SP (680-90852-11), FM0348B-CS-SP (680-90852-12), FM0349A-CS-SP (680-90852-13), FM0349B-CS-SP (680-90852-14), CV0995A-CS (680-90852-16), CV1248A-CS (680-90852-17), CV1248B-CS (680-90852-18), CV1248B-CSD (680-90852-19), FM0098A-CS-SP (680-90852-20) and FM0098B-CS-SP (680-90852-21) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and 06/04/2013 and analyzed on 06/05/2013, 06/06/2013 and 06/09/2013.

Samples CV0305A-CS (680-90852-1)[4X], CV0305B-CS (680-90852-2)[4X], FM0348A-CS-SP (680-90852-11)[4X], FM0349A-CS-SP (680-90852-13)[4X], CV0995A-CS (680-90852-16)[4X], CV1248A-CS (680-90852-17)[4X], CV1248B-CS (680-90852-18)[4X] and CV1248B-CSD (680-90852-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0650A-CS (680-90852-3).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0322A-CS-SPMS (680-90852-9) in batch 660-138101 and sample 680-90852-22 in batch 660-138216.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

Sdg Number: 68090852-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-90852-1	CV0305A-CS	Solid	05/28/2013 1400	05/31/2013 0853
680-90852-2	CV0305B-CS	Solid	05/28/2013 1410	05/31/2013 0853
680-90852-3	CV0650A-CS	Solid	05/28/2013 1320	05/31/2013 0853
680-90852-4	CV0650A-CSD	Solid	05/28/2013 1320	05/31/2013 0853
680-90852-5	CV0650B-CS	Solid	05/28/2013 1330	05/31/2013 0853
680-90852-6	CV0696A-CS	Solid	05/28/2013 1240	05/31/2013 0853
680-90852-7	CV0696A-CSD	Solid	05/28/2013 1240	05/31/2013 0853
680-90852-8	CV0696B-CS	Solid	05/28/2013 1250	05/31/2013 0853
680-90852-9	FM0322A-CS-SP	Solid	05/28/2013 1336	05/31/2013 0853
680-90852-9MS	FM0322A-CS-SP	Solid	05/28/2013 1336	05/31/2013 0853
680-90852-9MSD	FM0322A-CS-SP	Solid	05/28/2013 1336	05/31/2013 0853
680-90852-10	FM0322B-CS-SP	Solid	05/28/2013 1344	05/31/2013 0853
680-90852-11	FM0348A-CS-SP	Solid	05/28/2013 1428	05/31/2013 0853
680-90852-12	FM0348B-CS-SP	Solid	05/28/2013 1434	05/31/2013 0853
680-90852-13	FM0349A-CS-SP	Solid	05/28/2013 1454	05/31/2013 0853
680-90852-14	FM0349B-CS-SP	Solid	05/28/2013 1507	05/31/2013 0853
680-90852-16	CV0995A-CS	Solid	05/29/2013 1030	05/31/2013 0853
680-90852-17	CV1248A-CS	Solid	05/29/2013 0835	05/31/2013 0853
680-90852-18	CV1248B-CS	Solid	05/29/2013 0845	05/31/2013 0853
680-90852-19	CV1248B-CSD	Solid	05/29/2013 0845	05/31/2013 0853
680-90852-20	FM0098A-CS-SP	Solid	05/29/2013 0901	05/31/2013 0853
680-90852-21	FM0098B-CS-SP	Solid	05/29/2013 0912	05/31/2013 0853

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1  
Sdg Number: 68090852-1

<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: 680-90852-1

Sdg Number: 68090852-1

<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: 680-90852-1

Sdg Number: 68090852-1

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



## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

Sdg Number: 68090852-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 660-137999</b>					
LCS 660-137999/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137999/1-A	Method Blank	T	Solid	3546	
680-90852-1	CV0305A-CS	T	Solid	3546	
680-90852-2	CV0305B-CS	T	Solid	3546	
680-90852-3	CV0650A-CS	T	Solid	3546	
680-90852-4	CV0650A-CSD	T	Solid	3546	
680-90852-5	CV0650B-CS	T	Solid	3546	
680-90852-6	CV0696A-CS	T	Solid	3546	
680-90852-7	CV0696A-CSD	T	Solid	3546	
680-90852-8	CV0696B-CS	T	Solid	3546	
680-90852-9	FM0322A-CS-SP	T	Solid	3546	
680-90852-9MS	Matrix Spike	T	Solid	3546	
680-90852-9MSD	Matrix Spike Duplicate	T	Solid	3546	
680-90852-10	FM0322B-CS-SP	T	Solid	3546	
680-90852-11	FM0348A-CS-SP	T	Solid	3546	
<b>Prep Batch: 660-138015</b>					
LCS 660-138015/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138015/1-A	Method Blank	T	Solid	3546	
680-90852-12	FM0348B-CS-SP	T	Solid	3546	
680-90852-13	FM0349A-CS-SP	T	Solid	3546	
680-90852-14	FM0349B-CS-SP	T	Solid	3546	
680-90852-16	CV0995A-CS	T	Solid	3546	
680-90852-17	CV1248A-CS	T	Solid	3546	
680-90852-18	CV1248B-CS	T	Solid	3546	
680-90852-19	CV1248B-CSD	T	Solid	3546	
680-90852-20	FM0098A-CS-SP	T	Solid	3546	
680-90852-21	FM0098B-CS-SP	T	Solid	3546	
680-90852-A-22-B MS	Matrix Spike	T	Solid	3546	
680-90852-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	
<b>Analysis Batch:660-138101</b>					
LCS 660-137999/2-A	Lab Control Sample	T	Solid	8270C LL	660-137999
MB 660-137999/1-A	Method Blank	T	Solid	8270C LL	660-137999
680-90852-9	FM0322A-CS-SP	T	Solid	8270C LL	660-137999
680-90852-9MS	Matrix Spike	T	Solid	8270C LL	660-137999
680-90852-9MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137999
<b>Analysis Batch:660-138106</b>					
680-90852-5	CV0650B-CS	T	Solid	8270C LL	660-137999
680-90852-6	CV0696A-CS	T	Solid	8270C LL	660-137999
680-90852-7	CV0696A-CSD	T	Solid	8270C LL	660-137999
680-90852-8	CV0696B-CS	T	Solid	8270C LL	660-137999
680-90852-10	FM0322B-CS-SP	T	Solid	8270C LL	660-137999
680-90852-11	FM0348A-CS-SP	T	Solid	8270C LL	660-137999

TestAmerica Savannah

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

Sdg Number: 68090852-1

### 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:660-138163</b>					
680-90852-1	CV0305A-CS	T	Solid	8270C LL	660-137999
680-90852-2	CV0305B-CS	T	Solid	8270C LL	660-137999
680-90852-3	CV0650A-CS	T	Solid	8270C LL	660-137999
680-90852-4	CV0650A-CSD	T	Solid	8270C LL	660-137999
<b>Analysis Batch:660-138216</b>					
LCS 660-138015/2-A	Lab Control Sample	T	Solid	8270C LL	660-138015
MB 660-138015/1-A	Method Blank	T	Solid	8270C LL	660-138015
680-90852-12	FM0348B-CS-SP	T	Solid	8270C LL	660-138015
680-90852-13	FM0349A-CS-SP	T	Solid	8270C LL	660-138015
680-90852-14	FM0349B-CS-SP	T	Solid	8270C LL	660-138015
680-90852-16	CV0995A-CS	T	Solid	8270C LL	660-138015
680-90852-17	CV1248A-CS	T	Solid	8270C LL	660-138015
680-90852-18	CV1248B-CS	T	Solid	8270C LL	660-138015
680-90852-19	CV1248B-CSD	T	Solid	8270C LL	660-138015
680-90852-20	FM0098A-CS-SP	T	Solid	8270C LL	660-138015
680-90852-21	FM0098B-CS-SP	T	Solid	8270C LL	660-138015
680-90852-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-138015
680-90852-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138015

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

Sdg Number: 68090852-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-137974</b>					
680-90852-1	CV0305A-CS	T	Solid	Moisture	
680-90852-2	CV0305B-CS	T	Solid	Moisture	
680-90852-3	CV0650A-CS	T	Solid	Moisture	
680-90852-4	CV0650A-CSD	T	Solid	Moisture	
680-90852-6	CV0696A-CS	T	Solid	Moisture	
680-90852-9	FM0322A-CS-SP	T	Solid	Moisture	
680-90852-9MS	Matrix Spike	T	Solid	Moisture	
680-90852-9MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90852-11	FM0348A-CS-SP	T	Solid	Moisture	
680-90852-12	FM0348B-CS-SP	T	Solid	Moisture	
680-90852-13	FM0349A-CS-SP	T	Solid	Moisture	
680-90852-14	FM0349B-CS-SP	T	Solid	Moisture	
680-90852-16	CV0995A-CS	T	Solid	Moisture	
680-90852-17	CV1248A-CS	T	Solid	Moisture	
680-90852-18	CV1248B-CS	T	Solid	Moisture	
680-90852-19	CV1248B-CSD	T	Solid	Moisture	
680-90852-20	FM0098A-CS-SP	T	Solid	Moisture	
680-90852-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-90852-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-137982</b>					
LCS 660-137982/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137982/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90852-7	CV0696A-CSD	T	Solid	Moisture	
680-90852-8	CV0696B-CS	T	Solid	Moisture	
680-90852-10	FM0322B-CS-SP	T	Solid	Moisture	
680-90852-21	FM0098B-CS-SP	T	Solid	Moisture	
<b>Analysis Batch:660-137998</b>					
LCS 660-137998/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-90852-5	CV0650B-CS	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Analysis Batch Number: 137917Lab Sample ID: ICIS 660-137917/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 15:07 Lab File ID: 1AE30006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:40

Lab Sample ID: IC 660-137917/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 15:23 Lab File ID: 1AE30007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	2.92	Baseline Event	cantins	06/03/13 10:09
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:09
Dibenzofuran	3.65	Analyte not Identified by the Data System	perrint	05/31/13 13:44
Anthracene	4.52	Baseline Event	cantins	06/03/13 10:09
Benzo[b]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:09
Benzo[k]fluoranthene	7.31	Baseline Event	cantins	06/03/13 10:09
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:44
Dibenz(a,h)anthracene	8.30	Baseline Event	cantins	06/03/13 10:10
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:10

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Analysis Batch Number: 137917Lab Sample ID: IC 660-137917/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 15:38 Lab File ID: 1AE30008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	2.51	Baseline Event	cantins	06/03/13 10:10
1-Methylnaphthalene	2.97	Baseline Event	perrint	05/31/13 13:43
1,1'-Biphenyl	3.20	Baseline Event	cantins	06/03/13 10:10
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:10
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:11
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:11
Anthracene	4.52	Baseline Event	cantins	06/03/13 10:11
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:11
Pyrene	5.50	Baseline Event	cantins	06/03/13 10:11
Benzo[k]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:11
Benzo[a]pyrene	7.50	Baseline Event	cantins	06/03/13 10:12
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:43
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:12

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Analysis Batch Number: 137917Lab Sample ID: IC 660-137917/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 15:53 Lab File ID: 1AE30009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:12
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:12
Acenaphthylene	3.43	Baseline Event	cantins	06/03/13 10:12
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:12
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:13
Anthracene	4.51	Baseline Event	cantins	06/03/13 10:13
Fluoranthene	5.33	Baseline Event	cantins	06/03/13 10:13
Pyrene	5.50	Baseline Event	cantins	06/03/13 10:13
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:13
Benzo[k]fluoranthene	7.29	Baseline Event	cantins	06/03/13 10:13
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	perrint	05/31/13 13:43
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:14
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:14

Lab Sample ID: IC 660-137917/11 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 16:08 Lab File ID: 1AE30010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:14
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:15
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:15
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:15
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:15
Chrysene	6.48	Baseline Event	cantins	06/03/13 10:15
Benzo[k]fluoranthene	7.30	Baseline Event	cantins	06/03/13 10:15
Indeno[1,2,3-cd]pyrene	8.28	Split Peak	perrint	05/31/13 13:42
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:16
Benzo[g,h,i]perylene	8.48	Baseline Event	cantins	06/03/13 10:16

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Analysis Batch Number: 137917Lab Sample ID: IC 660-137917/12 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 16:23 Lab File ID: 1AE30011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:16
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:16
Fluorene	3.85	Baseline Event	cantins	06/03/13 10:16
Anthracene	4.51	Baseline Event	cantins	06/03/13 10:17
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:17
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:17
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:42
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:17

Lab Sample ID: IC 660-137917/13 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 16:38 Lab File ID: 1AE30012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:17
1,1'-Biphenyl	3.19	Baseline Event	cantins	06/03/13 10:18
Indeno[1,2,3-cd]pyrene	8.30	Split Peak	perrint	05/31/13 13:41

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Analysis Batch Number: 137917Lab Sample ID: ICV 660-137917/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/30/13 16:53 Lab File ID: 1AE30013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	2.97	Baseline Event	cantins	06/03/13 10:18
Acenaphthylene	3.44	Baseline Event	cantins	06/03/13 10:18
Dibenzofuran	3.64	Baseline Event	cantins	06/03/13 10:19
Fluoranthene	5.34	Baseline Event	cantins	06/03/13 10:19
Chrysene	6.49	Baseline Event	cantins	06/03/13 10:19
Benzo[k]fluoranthene	7.30	Baseline Event	cantins	06/03/13 10:19
Indeno[1,2,3-cd]pyrene	8.29	Split Peak	perrint	05/31/13 13:52
Dibenz(a,h)anthracene	8.31	Baseline Event	cantins	06/03/13 10:19
Benzo[g,h,i]perylene	8.49	Baseline Event	cantins	06/03/13 10:19



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973 Analysis Batch Number: 137704Lab Sample ID: IC 660-137704/15 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 16:16 Lab File ID: 1CE22014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 09:51
Dibenz(a,h)anthracene	10.82	Baseline Event	cantins	05/23/13 09:49
Benzo[g,h,i]perylene	11.22	Baseline Event	cantins	05/23/13 09:49

Lab Sample ID: IC 660-137704/16 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 16:34 Lab File ID: 1CE22015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06
Dibenz(a,h)anthracene	10.83	Baseline Event	cantins	05/23/13 10:05

Lab Sample ID: IC 660-137704/17 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 16:52 Lab File ID: 1CE22016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:06

Lab Sample ID: IC 660-137704/18 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 17:10 Lab File ID: 1CE22017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.80	Split Peak	cantins	05/23/13 10:07

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973 Analysis Batch Number: 137704Lab Sample ID: ICIS 660-137704/19 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 17:29 Lab File ID: 1CE22018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/22/13 18:03

Lab Sample ID: IC 660-137704/20 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 17:47 Lab File ID: 1CE22019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:07

Lab Sample ID: IC 660-137704/21 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 18:05 Lab File ID: 1CE22020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.82	Split Peak	cantins	05/23/13 10:09

Lab Sample ID: ICV 660-137704/22 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/22/13 18:24 Lab File ID: 1CE22021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.81	Split Peak	cantins	05/23/13 10:17

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973 Analysis Batch Number: 138101Lab Sample ID: CCVIS 660-138101/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/05/13 11:24 Lab File ID: 1CF05003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/05/13 11:40

Lab Sample ID: LCS 660-137999/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 06/05/13 19:30 Lab File ID: 1CF05026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.76	Split Peak	cantins	06/06/13 13:42

Lab Sample ID: 680-90852-9 Client Sample ID: FM0322A-CS-SPDate Analyzed: 06/05/13 19:49 Lab File ID: 1CF05027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.99	Split Peak	cantins	06/06/13 13:43
Benzo[k]fluoranthene	9.00	Baseline Event	cantins	06/06/13 13:43
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:44
Dibenz(a,h)anthracene	10.78	Baseline Event	cantins	06/06/13 13:43
Benzo[g,h,i]perylene	11.19	Baseline Event	cantins	06/06/13 13:43

Lab Sample ID: 680-90852-9 MS Client Sample ID: FM0322A-CS-SP MSDate Analyzed: 06/05/13 20:07 Lab File ID: 1CF05028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:45

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973 Analysis Batch Number: 138101Lab Sample ID: 680-90852-9 MSD Client Sample ID: FM0322A-CS-SP MSDDate Analyzed: 06/05/13 20:25 Lab File ID: 1CF05029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.77	Split Peak	cantins	06/06/13 13:45

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 137830Lab Sample ID: IC 660-137830/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 05/23/13 13:03 Lab File ID: 1DE23003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	15.15	Baseline Event	cantins	05/28/13 11:36
Benzo[g,h,i]perylene	15.57	Baseline Event	cantins	05/28/13 11:37

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 138106Lab Sample ID: 680-90852-5 Client Sample ID: CV0650B-CSDate Analyzed: 06/05/13 21:41 Lab File ID: 1DF05029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.15	Split Peak	cantins	06/09/13 08:24

Lab Sample ID: 680-90852-6 Client Sample ID: CV0696A-CSDate Analyzed: 06/05/13 22:04 Lab File ID: 1DF05030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/09/13 08:24

Lab Sample ID: 680-90852-7 Client Sample ID: CV0696A-CSDDate Analyzed: 06/05/13 22:27 Lab File ID: 1DF05031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/09/13 08:25

Lab Sample ID: 680-90852-8 Client Sample ID: CV0696B-CSDate Analyzed: 06/05/13 22:49 Lab File ID: 1DF05032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/09/13 08:26

Lab Sample ID: 680-90852-10 Client Sample ID: FM0322B-CS-SPDate Analyzed: 06/05/13 23:12 Lab File ID: 1DF05033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/09/13 08:26

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 138106Lab Sample ID: 680-90852-11 Client Sample ID: FM0348A-CS-SPDate Analyzed: 06/05/13 23:34 Lab File ID: 1DF05034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/09/13 08:27

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 138163Lab Sample ID: 680-90852-1 Client Sample ID: CV0305A-CSDate Analyzed: 06/06/13 15:12 Lab File ID: 1DF06010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/07/13 17:03

Lab Sample ID: 680-90852-2 Client Sample ID: CV0305B-CSDate Analyzed: 06/06/13 15:35 Lab File ID: 1DF06011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.16	Split Peak	cantins	06/07/13 17:03

Lab Sample ID: 680-90852-3 Client Sample ID: CV0650A-CSDate Analyzed: 06/06/13 15:58 Lab File ID: 1DF06012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/07/13 17:04

Lab Sample ID: 680-90852-4 Client Sample ID: CV0650A-CSDDate Analyzed: 06/06/13 16:21 Lab File ID: 1DF06013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.16	Split Peak	cantins	06/07/13 17:05



## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 138216Lab Sample ID: LCS 660-138015/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 06/09/13 11:12 Lab File ID: 1DF09006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/10/13 11:51

Lab Sample ID: 680-90852-12 Client Sample ID: FM0348B-CS-SPDate Analyzed: 06/09/13 11:57 Lab File ID: 1DF09008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/10/13 11:56

Lab Sample ID: 680-90852-13 Client Sample ID: FM0349A-CS-SPDate Analyzed: 06/09/13 12:19 Lab File ID: 1DF09009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/10/13 11:57

Lab Sample ID: 680-90852-14 Client Sample ID: FM0349B-CS-SPDate Analyzed: 06/09/13 12:42 Lab File ID: 1DF09010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/10/13 11:58

Lab Sample ID: 680-90852-16 Client Sample ID: CV0995A-CSDate Analyzed: 06/09/13 13:04 Lab File ID: 1DF09011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/10/13 11:59

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Analysis Batch Number: 138216Lab Sample ID: 680-90852-17 Client Sample ID: CV1248A-CSDate Analyzed: 06/09/13 13:27 Lab File ID: 1DF09012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/10/13 11:59

Lab Sample ID: 680-90852-18 Client Sample ID: CV1248B-CSDate Analyzed: 06/09/13 13:50 Lab File ID: 1DF09013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/10/13 12:00

Lab Sample ID: 680-90852-19 Client Sample ID: CV1248B-CSDDate Analyzed: 06/09/13 14:12 Lab File ID: 1DF09014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/10/13 12:01

Lab Sample ID: 680-90852-20 Client Sample ID: FM0098A-CS-SPDate Analyzed: 06/09/13 14:35 Lab File ID: 1DF09015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	12.97	Analyte Misidentified by the Data System	cantins	06/10/13 12:01
Indeno[1,2,3-cd]pyrene	15.21	Split Peak	cantins	06/10/13 12:02

Lab Sample ID: 680-90852-21 Client Sample ID: FM0098B-CS-SPDate Analyzed: 06/09/13 14:57 Lab File ID: 1DF09016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.14	Split Peak	cantins	06/10/13 12:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Instrument ID: BSMD5973 Analysis Batch Number: 138216

Lab Sample ID: 680-90852-A-22-B MS Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/09/13 15:42 Lab File ID: 1DF09018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.17	Split Peak	cantins	06/10/13 12:24

Lab Sample ID: 680-90852-A-22-C MSD Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/09/13 16:05 Lab File ID: 1DF09019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.19	Split Peak	cantins	06/10/13 12:26

# 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.: 680-90852-1

SDG No.: 68090852-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0305A-CS	680-90852-1	61
CV0305B-CS	680-90852-2	53
CV0650A-CS	680-90852-3	28 X
CV0650A-CSD	680-90852-4	54
CV0650B-CS	680-90852-5	69
CV0696A-CS	680-90852-6	69
CV0696A-CSD	680-90852-7	68
CV0696B-CS	680-90852-8	60
FM0322A-CS-SP	680-90852-9	55
FM0322B-CS-SP	680-90852-10	56
FM0348A-CS-SP	680-90852-11	79
FM0348B-CS-SP	680-90852-12	79
FM0349A-CS-SP	680-90852-13	62
FM0349B-CS-SP	680-90852-14	71
CV0995A-CS	680-90852-16	55
CV1248A-CS	680-90852-17	82
CV1248B-CS	680-90852-18	70
CV1248B-CSD	680-90852-19	79
FM0098A-CS-SP	680-90852-20	72
FM0098B-CS-SP	680-90852-21	67
	MB 660-137999/1-A	88
	MB 660-138015/1-A	84
	LCS 660-137999/2-A	86
	LCS 660-138015/2-A	82
	680-90852-A-22-B MS	52
FM0322A-CS-SP MS	680-90852-9 MS	52
	680-90852-A-22-C MSD	61
FM0322A-CS-SP MSD	680-90852-9 MSD	58

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1CF05026.D  
 Lab ID: LCS 660-137999/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	601	90	39-130	
Acenaphthylene	669	586	88	38-130	
Anthracene	669	562	84	37-130	
Benzo[a]anthracene	669	560	84	40-130	
Benzo[a]pyrene	669	535	80	49-130	
Benzo[b]fluoranthene	669	669	100	37-130	
Benzo[g,h,i]perylene	669	598	89	32-130	
Benzo[k]fluoranthene	669	541	81	32-130	
Chrysene	669	535	80	41-130	
Dibenz(a,h)anthracene	669	670	100	27-130	
Fluoranthene	669	597	89	40-130	
Fluorene	669	582	87	40-130	
Indeno[1,2,3-cd]pyrene	669	583	87	30-130	
1-Methylnaphthalene	669	546	82	31-130	
2-Methylnaphthalene	669	564	84	33-130	
Naphthalene	669	454	68	36-130	
Phenanthrene	669	534	80	42-130	
Pyrene	669	539	81	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.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1DF09006.D  
 Lab ID: LCS 660-138015/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	548	82	39-130	
Acenaphthylene	665	587	88	38-130	
Anthracene	665	583	88	37-130	
Benzo[a]anthracene	665	504	76	40-130	
Benzo[a]pyrene	665	511	77	49-130	
Benzo[b]fluoranthene	665	567	85	37-130	
Benzo[g,h,i]perylene	665	577	87	32-130	
Benzo[k]fluoranthene	665	556	84	32-130	
Chrysene	665	511	77	41-130	
Dibenz(a,h)anthracene	665	557	84	27-130	
Fluoranthene	665	578	87	40-130	
Fluorene	665	593	89	40-130	
Indeno[1,2,3-cd]pyrene	665	532	80	30-130	
1-Methylnaphthalene	665	537	81	31-130	
2-Methylnaphthalene	665	586	88	33-130	
Naphthalene	665	552	83	36-130	
Phenanthrene	665	560	84	42-130	
Pyrene	665	520	78	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1DF09018.D  
 Lab ID: 680-90852-A-22-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	813	120 U	461	57	39-130	
Acenaphthylene	813	47 J	537	60	38-130	
Anthracene	813	94	560	57	37-130	
Benzo[a]anthracene	813	150	568	52	40-130	
Benzo[a]pyrene	813	180	557	47	49-130	F
Benzo[b]fluoranthene	813	430	857	53	37-130	
Benzo[g,h,i]perylene	813	110	394	35	32-130	
Benzo[k]fluoranthene	813	120	594	59	32-130	
Chrysene	813	230	605	47	41-130	
Dibenz(a,h)anthracene	813	46	396	43	27-130	
Fluoranthene	813	170	607	54	40-130	
Fluorene	813	13 J	503	60	40-130	
Indeno[1,2,3-cd]pyrene	813	110	404	36	30-130	
1-Methylnaphthalene	813	47 J	486	54	31-130	
2-Methylnaphthalene	813	79	549	58	33-130	
Naphthalene	813	94	542	55	36-130	
Phenanthrene	813	120	575	56	42-130	
Pyrene	813	150	536	47	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.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1CF05028.D  
 Lab ID: 680-90852-9 MS Client ID: FM0322A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	729	110 U	394	54	39-130	
Acenaphthylene	729	11 J	419	56	38-130	
Anthracene	729	14	417	55	37-130	
Benzo[a]anthracene	729	63	429	50	40-130	
Benzo[a]pyrene	729	59	382	44	49-130	F
Benzo[b]fluoranthene	729	100	519	57	37-130	
Benzo[g,h,i]perylene	729	90	425	46	32-130	
Benzo[k]fluoranthene	729	41	400	49	32-130	
Chrysene	729	110	441	46	41-130	
Dibenz(a,h)anthracene	729	18 J	418	55	27-130	
Fluoranthene	729	95	467	51	40-130	
Fluorene	729	11 J	444	59	40-130	
Indeno[1,2,3-cd]pyrene	729	47	373	45	30-130	
1-Methylnaphthalene	729	65	565	69	31-130	
2-Methylnaphthalene	729	120	517	54	33-130	
Naphthalene	729	64	371	42	36-130	
Phenanthrene	729	110	540	59	42-130	
Pyrene	729	86	482	54	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.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1DF09019.D  
 Lab ID: 680-90852-A-22-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	813	542	67	16	40	39-130	
Acenaphthylene	813	629	72	16	40	38-130	
Anthracene	813	645	68	14	40	37-130	
Benzo[a]anthracene	813	660	63	15	40	40-130	
Benzo[a]pyrene	813	665	60	18	40	49-130	
Benzo[b]fluoranthene	813	1040	76	20	40	37-130	
Benzo[g,h,i]perylene	813	475	45	19	40	32-130	
Benzo[k]fluoranthene	813	705	72	17	40	32-130	
Chrysene	813	708	59	16	40	41-130	
Dibenz(a,h)anthracene	813	468	52	17	40	27-130	
Fluoranthene	813	699	65	14	40	40-130	
Fluorene	813	590	71	16	40	40-130	
Indeno[1,2,3-cd]pyrene	813	488	46	19	40	30-130	
1-Methylnaphthalene	813	594	67	20	40	31-130	
2-Methylnaphthalene	813	678	74	21	40	33-130	
Naphthalene	813	656	69	19	40	36-130	
Phenanthrene	813	649	65	12	40	42-130	
Pyrene	813	636	59	17	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.: 680-90852-1  
 SDG No.: 68090852-1  
 Matrix: Solid Level: Low Lab File ID: 1CF05029.D  
 Lab ID: 680-90852-9 MSD Client ID: FM0322A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	729	399	55	1	40	39-130	
Acenaphthylene	729	442	59	6	40	38-130	
Anthracene	729	447	59	7	40	37-130	
Benzo[a]anthracene	729	479	57	11	40	40-130	
Benzo[a]pyrene	729	434	51	13	40	49-130	
Benzo[b]fluoranthene	729	537	59	4	40	37-130	
Benzo[g,h,i]perylene	729	487	54	14	40	32-130	
Benzo[k]fluoranthene	729	461	58	14	40	32-130	
Chrysene	729	499	54	12	40	41-130	
Dibenz(a,h)anthracene	729	463	61	10	40	27-130	
Fluoranthene	729	529	60	12	40	40-130	
Fluorene	729	439	59	1	40	40-130	
Indeno[1,2,3-cd]pyrene	729	413	50	10	40	30-130	
1-Methylnaphthalene	729	465	55	19	40	31-130	
2-Methylnaphthalene	729	514	54	1	40	33-130	
Naphthalene	729	364	41	2	40	36-130	
Phenanthrene	729	502	54	7	40	42-130	
Pyrene	729	498	56	3	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.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1CF05025.D Lab Sample ID: MB 660-137999/1-A  
 Matrix: Solid Date Extracted: 06/03/2013 13:04  
 Instrument ID: BSMC5973 Date Analyzed: 06/05/2013 19:12  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137999/2-A	1CF05026.D	06/05/2013 19:30
FM0322A-CS-SP	680-90852-9	1CF05027.D	06/05/2013 19:49
FM0322A-CS-SP MS	680-90852-9 MS	1CF05028.D	06/05/2013 20:07
FM0322A-CS-SP MSD	680-90852-9 MSD	1CF05029.D	06/05/2013 20:25
CV0650B-CS	680-90852-5	1DF05029.D	06/05/2013 21:41
CV0696A-CS	680-90852-6	1DF05030.D	06/05/2013 22:04
CV0696A-CSD	680-90852-7	1DF05031.D	06/05/2013 22:27
CV0696B-CS	680-90852-8	1DF05032.D	06/05/2013 22:49
FM0322B-CS-SP	680-90852-10	1DF05033.D	06/05/2013 23:12
FM0348A-CS-SP	680-90852-11	1DF05034.D	06/05/2013 23:34
CV0305A-CS	680-90852-1	1DF06010.D	06/06/2013 15:12
CV0305B-CS	680-90852-2	1DF06011.D	06/06/2013 15:35
CV0650A-CS	680-90852-3	1DF06012.D	06/06/2013 15:58
CV0650A-CSD	680-90852-4	1DF06013.D	06/06/2013 16:21

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1DF09005.D Lab Sample ID: MB 660-138015/1-A  
 Matrix: Solid Date Extracted: 06/04/2013 06:47  
 Instrument ID: BSMD5973 Date Analyzed: 06/09/2013 10:49  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138015/2-A	1DF09006.D	06/09/2013 11:12
FM0348B-CS-SP	680-90852-12	1DF09008.D	06/09/2013 11:57
FM0349A-CS-SP	680-90852-13	1DF09009.D	06/09/2013 12:19
FM0349B-CS-SP	680-90852-14	1DF09010.D	06/09/2013 12:42
CV0995A-CS	680-90852-16	1DF09011.D	06/09/2013 13:04
CV1248A-CS	680-90852-17	1DF09012.D	06/09/2013 13:27
CV1248B-CS	680-90852-18	1DF09013.D	06/09/2013 13:50
CV1248B-CSD	680-90852-19	1DF09014.D	06/09/2013 14:12
FM0098A-CS-SP	680-90852-20	1DF09015.D	06/09/2013 14:35
FM0098B-CS-SP	680-90852-21	1DF09016.D	06/09/2013 14:57
	680-90852-A-22-B MS	1DF09018.D	06/09/2013 15:42
	680-90852-A-22-C MSD	1DF09019.D	06/09/2013 16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1AE30005.D DFTPP Injection Date: 05/30/2013  
 Instrument ID: BSMA5973 DFTPP Injection Time: 14:51  
 Analysis Batch No.: 137917

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	51.3
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	49.5
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.3
275	10.0 - 60.0 % of mass 198	24.8
365	Greater than 1.0 % of mass 198	3.2
441	Present but less than mass 443	11.5
442	Greater than 50.0 % of mass 198	76.7
443	15.0 - 24.0 % of mass 442	13.9 (18.2)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-137917/7	1AE30006.D	05/30/2013	15:07
	IC 660-137917/8	1AE30007.D	05/30/2013	15:23
	IC 660-137917/9	1AE30008.D	05/30/2013	15:38
	IC 660-137917/10	1AE30009.D	05/30/2013	15:53
	IC 660-137917/11	1AE30010.D	05/30/2013	16:08
	IC 660-137917/12	1AE30011.D	05/30/2013	16:23
	IC 660-137917/13	1AE30012.D	05/30/2013	16:38
	ICV 660-137917/14	1AE30013.D	05/30/2013	16:53

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1CE22002.D DFTPP Injection Date: 05/22/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:24  
 Analysis Batch No.: 137704

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	26.9
68	Less than 2.0 % of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	41.8
70	Less than 2.0 % of mass 69	0.4 (0.9)1
127	10.0 - 80.0 % of mass 198	49.5
197	Less than 2.0 % of mass 198	0.3
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.7
275	10.0 - 60.0 % of mass 198	25.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	14.1
442	Greater than 50.0 % of mass 198	87.6
443	15.0 - 24.0 % of mass 442	15.7 (18.0)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137704/15	1CE22014.D	05/22/2013	16:16
	IC 660-137704/16	1CE22015.D	05/22/2013	16:34
	IC 660-137704/17	1CE22016.D	05/22/2013	16:52
	IC 660-137704/18	1CE22017.D	05/22/2013	17:10
	ICIS 660-137704/19	1CE22018.D	05/22/2013	17:29
	IC 660-137704/20	1CE22019.D	05/22/2013	17:47
	IC 660-137704/21	1CE22020.D	05/22/2013	18:05
	ICV 660-137704/22	1CE22021.D	05/22/2013	18:24

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1CF05002.D DFTPP Injection Date: 06/05/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:08  
 Analysis Batch No.: 138101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.6
68	Less than 2.0 % of mass 69	0.5 (1.2)1
69	Mass 69 relative abundance	43.5
70	Less than 2.0 % of mass 69	0.1 (0.2)1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	12.5
442	Greater than 50.0 % of mass 198	88.5
443	15.0 - 24.0 % of mass 442	16.6 (18.8)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138101/3	1CF05003.D	06/05/2013	11:24
	MB 660-137999/1-A	1CF05025.D	06/05/2013	19:12
	LCS 660-137999/2-A	1CF05026.D	06/05/2013	19:30
FM0322A-CS-SP	680-90852-9	1CF05027.D	06/05/2013	19:49
FM0322A-CS-SP MS	680-90852-9 MS	1CF05028.D	06/05/2013	20:07
FM0322A-CS-SP MSD	680-90852-9 MSD	1CF05029.D	06/05/2013	20:25



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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1DE23002.D DFTPP Injection Date: 05/23/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:20  
 Analysis Batch No.: 137830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	55.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.5
70	Less than 2.0 % of mass 69	0.5 (0.9)1
127	10.0 - 80.0 % of mass 198	56.5
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	26.0
365	Greater than 1.0 % of mass 198	4.0
441	Present but less than mass 443	7.8
442	Greater than 50.0 % of mass 198	54.0
443	15.0 - 24.0 % of mass 442	9.9 (18.4)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 660-137830/3	1DE23003.D	05/23/2013	13:03
	IC 660-137830/4	1DE23004.D	05/23/2013	13:26
	IC 660-137830/5	1DE23005.D	05/23/2013	13:48
	IC 660-137830/6	1DE23006.D	05/23/2013	14:11
	ICIS 660-137830/7	1DE23007.D	05/23/2013	14:33
	IC 660-137830/8	1DE23008.D	05/23/2013	14:56
	IC 660-137830/9	1DE23009.D	05/23/2013	15:19
	ICV 660-137830/10	1DE23010.D	05/23/2013	15:41

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1DF05002.D DFTPP Injection Date: 06/05/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:38  
 Analysis Batch No.: 138106

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	30.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.0
70	Less than 2.0 % of mass 69	0.2 (0.7)1
127	10.0 - 80.0 % of mass 198	45.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.3
275	10.0 - 60.0 % of mass 198	30.1
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	13.5
442	Greater than 50.0 % of mass 198	89.1
443	15.0 - 24.0 % of mass 442	16.8 (18.8)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138106/3	1DF05003.D	06/05/2013	11:54
CV0650B-CS	680-90852-5	1DF05029.D	06/05/2013	21:41
CV0696A-CS	680-90852-6	1DF05030.D	06/05/2013	22:04
CV0696A-CSD	680-90852-7	1DF05031.D	06/05/2013	22:27
CV0696B-CS	680-90852-8	1DF05032.D	06/05/2013	22:49
FM0322B-CS-SP	680-90852-10	1DF05033.D	06/05/2013	23:12
FM0348A-CS-SP	680-90852-11	1DF05034.D	06/05/2013	23:34

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1DF06002.D DFTPP Injection Date: 06/06/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 12:05  
 Analysis Batch No.: 138163

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	36.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.1
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	45.3
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.1
275	10.0 - 60.0 % of mass 198	31.1
365	Greater than 1.0 % of mass 198	4.8
441	Present but less than mass 443	12.1
442	Greater than 50.0 % of mass 198	76.9
443	15.0 - 24.0 % of mass 442	15.8 (20.6)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 660-138163/4	1DF06004.D	06/06/2013	12:56
CV0305A-CS	680-90852-1	1DF06010.D	06/06/2013	15:12
CV0305B-CS	680-90852-2	1DF06011.D	06/06/2013	15:35
CV0650A-CS	680-90852-3	1DF06012.D	06/06/2013	15:58
CV0650A-CSD	680-90852-4	1DF06013.D	06/06/2013	16:21

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab File ID: 1DF09002.D DFTPP Injection Date: 06/09/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 09:45  
 Analysis Batch No.: 138216

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	40.3
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.5
70	Less than 2.0 % of mass 69	0.3 (0.7)1
127	10.0 - 80.0 % of mass 198	48.9
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	25.7
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	8.1
442	Greater than 50.0 % of mass 198	54.5
443	15.0 - 24.0 % of mass 442	11.5 (21.1)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138216/3	1DF09003.D	06/09/2013	10:03
	MB 660-138015/1-A	1DF09005.D	06/09/2013	10:49
	LCS 660-138015/2-A	1DF09006.D	06/09/2013	11:12
FM0348B-CS-SP	680-90852-12	1DF09008.D	06/09/2013	11:57
FM0349A-CS-SP	680-90852-13	1DF09009.D	06/09/2013	12:19
FM0349B-CS-SP	680-90852-14	1DF09010.D	06/09/2013	12:42
CV0995A-CS	680-90852-16	1DF09011.D	06/09/2013	13:04
CV1248A-CS	680-90852-17	1DF09012.D	06/09/2013	13:27
CV1248B-CS	680-90852-18	1DF09013.D	06/09/2013	13:50
CV1248B-CSD	680-90852-19	1DF09014.D	06/09/2013	14:12
FM0098A-CS-SP	680-90852-20	1DF09015.D	06/09/2013	14:35
FM0098B-CS-SP	680-90852-21	1DF09016.D	06/09/2013	14:57
	680-90852-A-22-B MS	1DF09018.D	06/09/2013	15:42
	680-90852-A-22-C MSD	1DF09019.D	06/09/2013	16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137917/7 Date Analyzed: 05/30/2013 15:07  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE30006.D Heated Purge: (Y/N) N  
 Calibration ID: 2994

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	684481	2.49	371379	3.52	579381	4.46
UPPER LIMIT	1368962	2.99	742758	4.02	1158762	4.96
LOWER LIMIT	342241	1.99	185690	3.02	289691	3.96
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137917/14	682213	2.49	336207	3.52	558509	4.46

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137917/7 Date Analyzed: 05/30/2013 15:07  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1AE30006.D Heated Purge: (Y/N) N  
 Calibration ID: 2994

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	517389	6.47	487492	7.55		
UPPER LIMIT	1034778	6.97	974984	8.05		
LOWER LIMIT	258695	5.97	243746	7.05		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137917/14	482825	6.47	386611	7.55		

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N  
 Calibration ID: 2979

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	2696939	4.06	1843203	5.15	3628372	6.12	
UPPER LIMIT	5393878	4.56	3686406	5.65	7256744	6.62	
LOWER LIMIT	1348470	3.56	921602	4.65	1814186	5.62	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137704/22		3002271	4.06	2105599	5.15	3933786	6.12

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137704/19 Date Analyzed: 05/22/2013 17:29  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CE22018.D Heated Purge: (Y/N) N  
 Calibration ID: 2979

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	4592658	8.08	4701347	9.42		
UPPER LIMIT	9185316	8.58	9402694	9.92		
LOWER LIMIT	2296329	7.58	2350674	8.92		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137704/22		4897113	8.08	5001508	9.42	

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N  
 Calibration ID: 2979

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3117690	4.04	2187855	5.13	4236955	6.09	
UPPER LIMIT	6235380	4.54	4375710	5.63	8473910	6.59	
LOWER LIMIT	1558845	3.54	1093928	4.63	2118478	5.59	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137999/1-A		2183946	4.04	1598557	5.13	2946078	6.09
LCS 660-137999/2-A		2085180	4.04	1507736	5.13	2687188	6.09
680-90852-9	FM0322A-CS-SP	2180340	4.04	1499228	5.13	2739963	6.09
680-90852-9 MS	FM0322A-CS-SP MS	2169232	4.04	1562224	5.13	2941751	6.09
680-90852-9 MSD	FM0322A-CS-SP MSD	2239395	4.04	1640510	5.13	3027304	6.09

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138101/3 Date Analyzed: 06/05/2013 11:24  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CF05003.D Heated Purge: (Y/N) N  
 Calibration ID: 2979

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	5431412	8.06	5530236	9.39		
UPPER LIMIT	10862824	8.56	11060472	9.89		
LOWER LIMIT	2715706	7.56	2765118	8.89		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-137999/1-A		3429654	8.06	3201426	9.39	
LCS 660-137999/2-A		3438292	8.06	3126738	9.39	
680-90852-9	FM0322A-CS-SP	3399355	8.06	3114873	9.39	
680-90852-9 MS	FM0322A-CS-SP MS	3209887	8.06	2911796	9.39	
680-90852-9 MSD	FM0322A-CS-SP MSD	3579574	8.06	3250006	9.39	

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	3209942	6.28	1824950	7.95	3071098	9.20		
UPPER LIMIT	6419884	6.78	3649900	8.45	6142196	9.70		
LOWER LIMIT	1604971	5.78	912475	7.45	1535549	8.70		
LAB SAMPLE ID	CLIENT SAMPLE ID							
ICV 660-137830/10			3254661	6.28	1828493	7.95	3056039	9.21

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	3009447	11.57	3048824	13.48		
UPPER LIMIT	6018894	12.07	6097648	13.98		
LOWER LIMIT	1504724	11.07	1524412	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137830/10	2992199	11.57	3010942	13.47		

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3131433	6.27	1623515	7.93	2616277	9.19	
UPPER LIMIT	6262866	6.77	3247030	8.43	5232554	9.69	
LOWER LIMIT	1565717	5.77	811758	7.43	1308139	8.69	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90852-5	CV0650B-CS	3252504	6.27	1756194	7.94	2738745	9.20
680-90852-6	CV0696A-CS	2957362	6.27	1611467	7.94	2455739	9.20
680-90852-7	CV0696A-CSD	2829394	6.27	1566101	7.94	2475536	9.20
680-90852-8	CV0696B-CS	3053855	6.27	1687898	7.94	2629589	9.20
680-90852-10	FM0322B-CS-SP	3432578	6.28	1891301	7.94	2971166	9.20
680-90852-11	FM0348A-CS-SP	2802343	6.28	1586219	7.94	2496807	9.20

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	2384410	11.55	2379163	13.46		
UPPER LIMIT	4768820	12.05	4758326	13.96		
LOWER LIMIT	1192205	11.05	1189582	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-90852-5	CV0650B-CS	2961767	11.57	2761546	13.49	
680-90852-6	CV0696A-CS	2528132	11.57	2363424	13.48	
680-90852-7	CV0696A-CSD	2643382	11.57	2362950	13.48	
680-90852-8	CV0696B-CS	2751846	11.57	2507173	13.48	
680-90852-10	FM0322B-CS-SP	3186669	11.57	2831632	13.49	
680-90852-11	FM0348A-CS-SP	2692424	11.57	2334784	13.48	

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138163/4 Date Analyzed: 06/06/2013 12:56  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF06004.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	4994332	6.27	2767803	7.94	4761090	9.20	
UPPER LIMIT	9988664	6.77	5535606	8.44	9522180	9.70	
LOWER LIMIT	2497166	5.77	1383902	7.44	2380545	8.70	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-90852-1	CV0305A-CS	4829656	6.27	2819120	7.94	4736770	9.20
680-90852-2	CV0305B-CS	5763705	6.27	3369861	7.94	5782180	9.20
680-90852-3	CV0650A-CS	5687749	6.28	3338466	7.94	5717420	9.20
680-90852-4	CV0650A-CSD	4699841	6.28	2748472	7.94	4627688	9.21

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138163/4 Date Analyzed: 06/06/2013 12:56  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF06004.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	5009241	11.57	5178715	13.48		
UPPER LIMIT	10018482	12.07	10357430	13.98		
LOWER LIMIT	2504621	11.07	2589358	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-90852-1	CV0305A-CS	5094096	11.57	4937334	13.48	
680-90852-2	CV0305B-CS	6514586	11.58	6355911	13.50	
680-90852-3	CV0650A-CS	6332847	11.57	6226365	13.50	
680-90852-4	CV0650A-CSD	4975643	11.58	4673854	13.51	

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138216/3 Date Analyzed: 06/09/2013 10:03  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3534561	6.26	1941167	7.93	3288683	9.19	
UPPER LIMIT	7069122	6.76	3882334	8.43	6577366	9.69	
LOWER LIMIT	1767281	5.76	970584	7.43	1644342	8.69	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138015/1-A		3414403	6.26	1996386	7.93	3209055	9.19
LCS 660-138015/2-A		3444683	6.26	2068111	7.93	3434704	9.19
680-90852-12	FM0348B-CS-SP	3461698	6.26	1968299	7.93	3246041	9.19
680-90852-13	FM0349A-CS-SP	3318582	6.26	1920412	7.93	3158139	9.19
680-90852-14	FM0349B-CS-SP	3529480	6.26	1992448	7.94	3202359	9.19
680-90852-16	CV0995A-CS	3234319	6.26	1871778	7.93	3123157	9.19
680-90852-17	CV1248A-CS	3240314	6.26	1875348	7.94	3031291	9.19
680-90852-18	CV1248B-CS	3020217	6.26	1727071	7.93	2878604	9.19
680-90852-19	CV1248B-CSD	3201040	6.26	1842311	7.94	3015582	9.19
680-90852-20	FM0098A-CS-SP	3368744	6.26	1938513	7.93	3108075	9.20
680-90852-21	FM0098B-CS-SP	3274777	6.27	1837625	7.94	2922839	9.20
680-90852-A-22-B MS		3233915	6.27	1821156	7.94	2827499	9.20
680-90852-A-22-C MSD		3264004	6.27	1894821	7.94	2969765	9.20

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Sample No.: CCVIS 660-138216/3 Date Analyzed: 06/09/2013 10:03  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DF09003.D Heated Purge: (Y/N) N  
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	3128341	11.56	3075668	13.46		
UPPER LIMIT	6256682	12.06	6151336	13.96		
LOWER LIMIT	1564171	11.06	1537834	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-138015/1-A		3312651	11.55	3118448	13.45	
LCS 660-138015/2-A		3615125	11.55	3424339	13.46	
680-90852-12	FM0348B-CS-SP	3178656	11.56	3113665	13.46	
680-90852-13	FM0349A-CS-SP	3004798	11.55	2970030	13.46	
680-90852-14	FM0349B-CS-SP	3106328	11.55	3111054	13.46	
680-90852-16	CV0995A-CS	3094494	11.56	3159711	13.47	
680-90852-17	CV1248A-CS	3006050	11.55	3047326	13.47	
680-90852-18	CV1248B-CS	2885833	11.56	3021985	13.47	
680-90852-19	CV1248B-CSD	2948855	11.55	3073993	13.47	
680-90852-20	FM0098A-CS-SP	3571450	11.57	3509296	13.52	
680-90852-21	FM0098B-CS-SP	3001827	11.57	2902366	13.49	
680-90852-A-22-B MS		3016240	11.58	2851049	13.50	
680-90852-A-22-C MSD		3092749	11.58	2844680	13.51	

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.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0305A-CS Lab Sample ID: 680-90852-1  
 Matrix: Solid Lab File ID: 1DF06010.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 14:00  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.20(g) Date Analyzed: 06/06/2013 15:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138163 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	J	510	100
208-96-8	Acenaphthylene	76	J	200	25
120-12-7	Anthracene	390		43	21
56-55-3	Benzo[a]anthracene	1000		41	20
50-32-8	Benzo[a]pyrene	950		53	27
205-99-2	Benzo[b]fluoranthene	1400		62	31
191-24-2	Benzo[g,h,i]perylene	580		100	22
207-08-9	Benzo[k]fluoranthene	580		41	18
218-01-9	Chrysene	1200		46	23
53-70-3	Dibenz(a,h)anthracene	220		100	21
206-44-0	Fluoranthene	2200		100	20
86-73-7	Fluorene	170		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	570		100	36
90-12-0	1-Methylnaphthalene	1000		200	22
91-57-6	2-Methylnaphthalene	1300		200	36
91-20-3	Naphthalene	700		200	22
85-01-8	Phenanthrene	2000		41	20
129-00-0	Pyrene	1700		100	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D060613.b\1DF06010.D  
 Lab Smp Id: 680-90852-A-1-A Client Smp ID: CV0305A-CS  
 Inj Date : 06-JUN-2013 15:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-A-1-A  
 Misc Info : 680-90852-A-1-A  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m  
 Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 9  
 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	15.200	Weight Extracted
M	22.587	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.273	6.274	(1.000)	4829656	40.0000	
* 7 Acenaphthene-d10	164		7.936	7.943	(1.000)	2819120	40.0000	
* 11 Phenanthrene-d10	188		9.199	9.200	(1.000)	4736770	40.0000	
\$ 15 o-Terphenyl	230		9.505	9.506	(1.033)	105761	1.52404	520
* 19 Chrysene-d12	240		11.567	11.568	(1.000)	5094096	40.0000	
* 24 Perylene-d12	264		13.483	13.478	(1.000)	4937334	40.0000	
2 Naphthalene	128		6.291	6.292	(1.003)	246537	2.06997	700
3 2-Methylnaphthalene	142		6.984	6.991	(1.113)	283129	3.73354	1300
4 1-Methylnaphthalene	142		7.078	7.085	(1.128)	233395	2.98954	1000
5 1,1'-Biphenyl	154		7.425	7.426	(0.936)	39419	0.41387	140
6 Acenaphthylene	152		7.807	7.814	(0.984)	26189	0.22406	76
8 Acenaphthene	154		7.960	7.967	(1.003)	31456	0.42423	140
9 Dibenzofuran	168		8.112	8.113	(1.022)	106446	1.04114	350
10 Fluorene	166		8.400	8.407	(1.058)	41297	0.49224	170

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.217	9.218	(1.002)	751217	5.85574	2000
13 Anthracene	178	9.252	9.259	(1.006)	143659	1.15413	390
16 Fluoranthene	202	10.198	10.199	(1.109)	841083	6.40861	2200
17 Pyrene	202	10.386	10.387	(0.898)	733427	4.91761	1700
18 Benzo(a)anthracene	228	11.550	11.545	(0.998)	456673	3.02069	1000
20 Chrysene	228	11.585	11.598	(1.002)	462026	3.39385	1200
21 Benzo(b)fluoranthene	252	12.907	12.914	(0.957)	506168	4.09219	1400
22 Benzo(k)fluoranthene	252	12.936	12.955	(0.959)	221793	1.71230	580
23 Benzo(a)pyrene	252	13.371	13.378	(0.992)	328457	2.78077	940
25 Indeno(1,2,3-cd)pyrene	276	15.116	15.135	(1.121)	197202	1.68465	570(M)
26 Dibenzo(a,h)anthracene	278	15.145	15.170	(1.123)	67887	0.64727	220
27 Benzo(g,h,i)perylene	276	15.592	15.616	(1.156)	190874	1.70257	580(H)

QC Flag Legend

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

Data File: 1DF06010.D

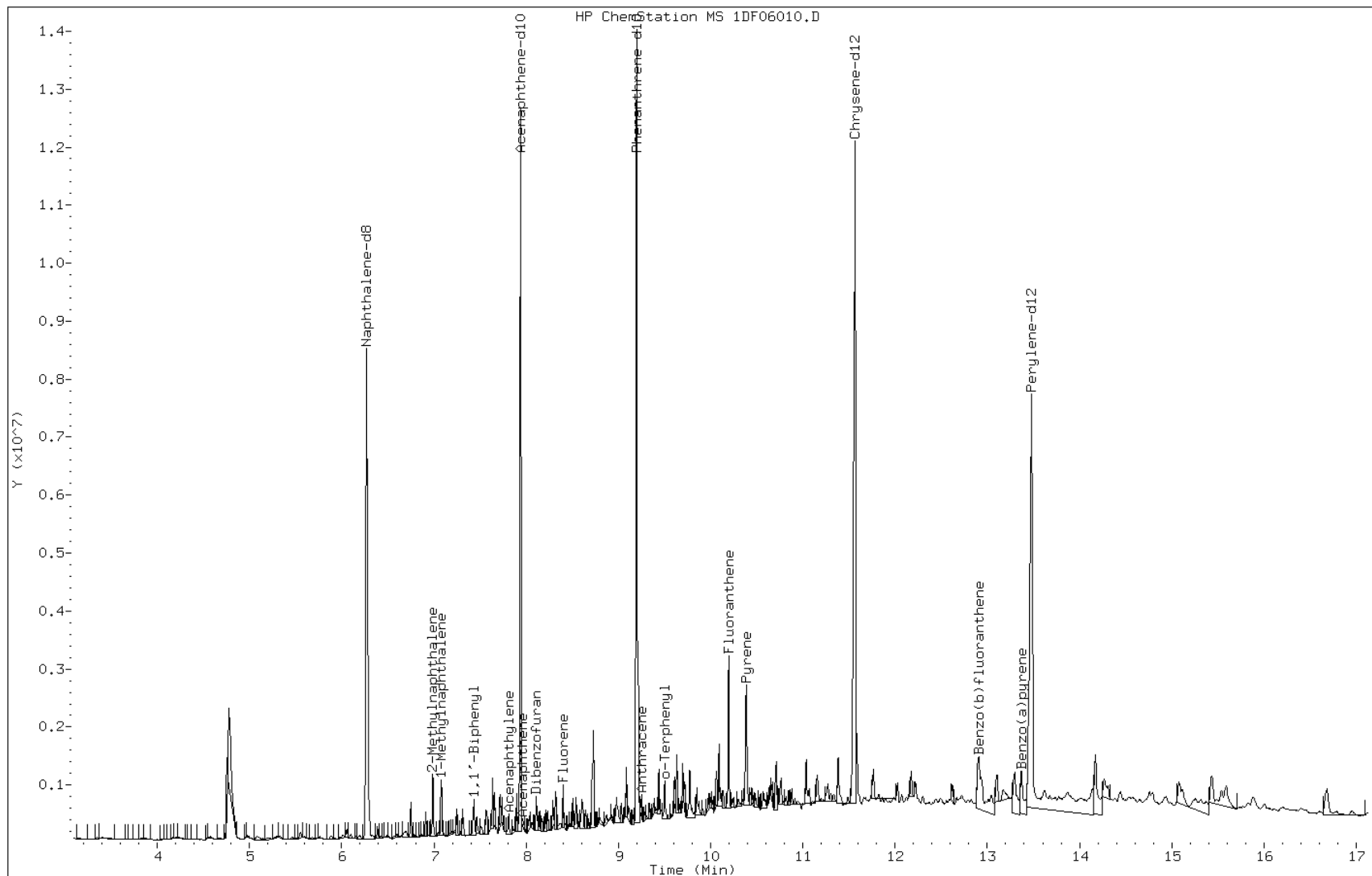
Date: 06-JUN-2013 15:12

Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

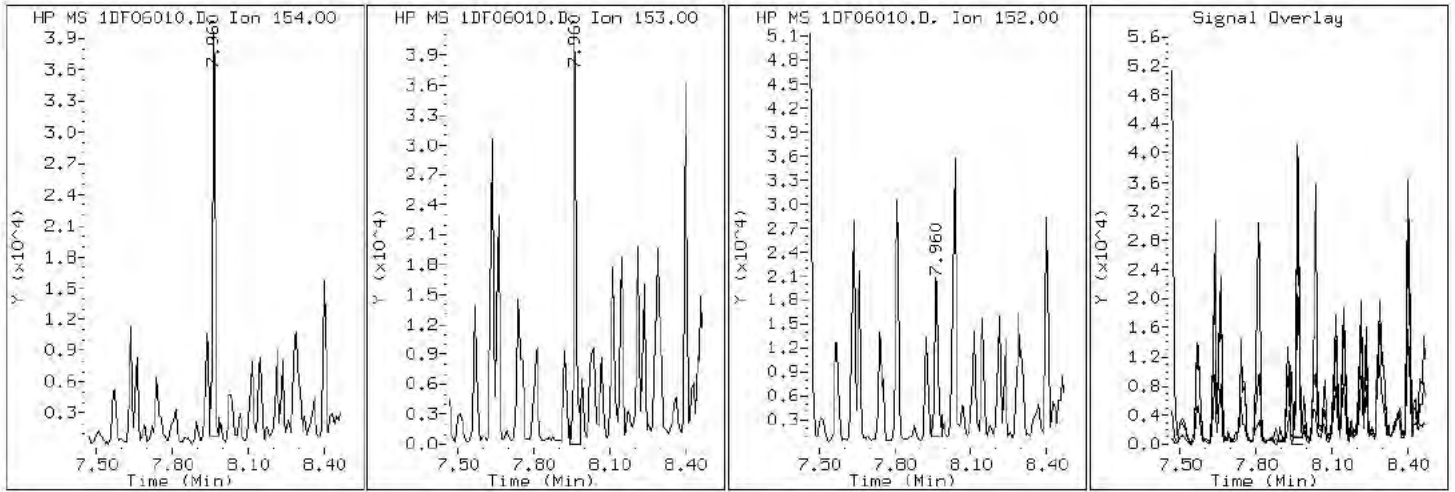
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

8 Acenaphthene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

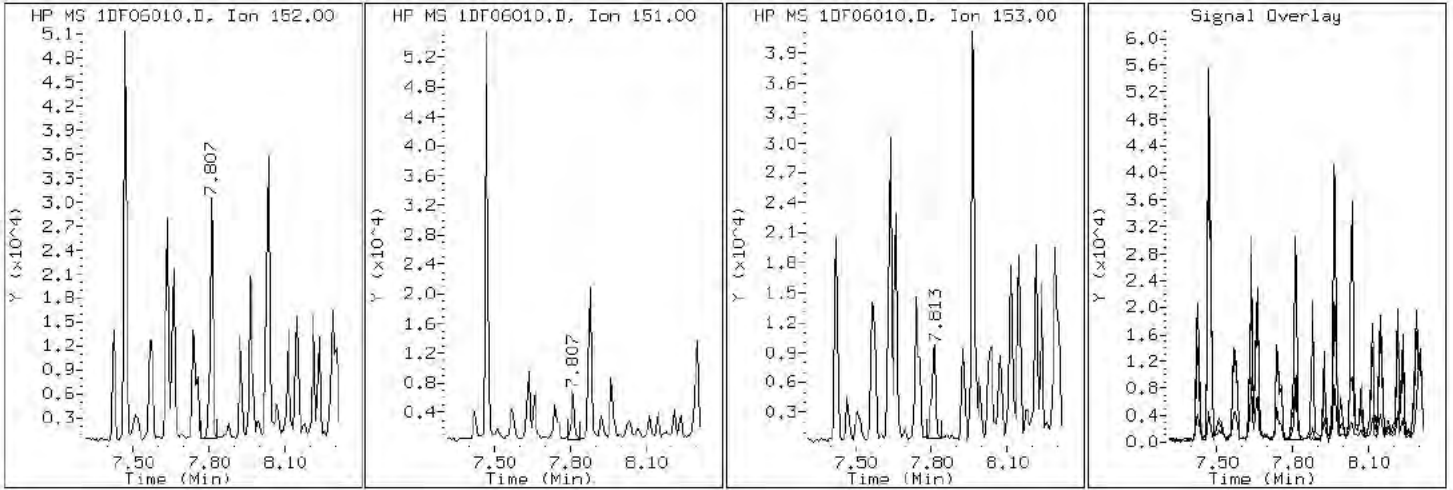
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

6 Acenaphthylene





Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

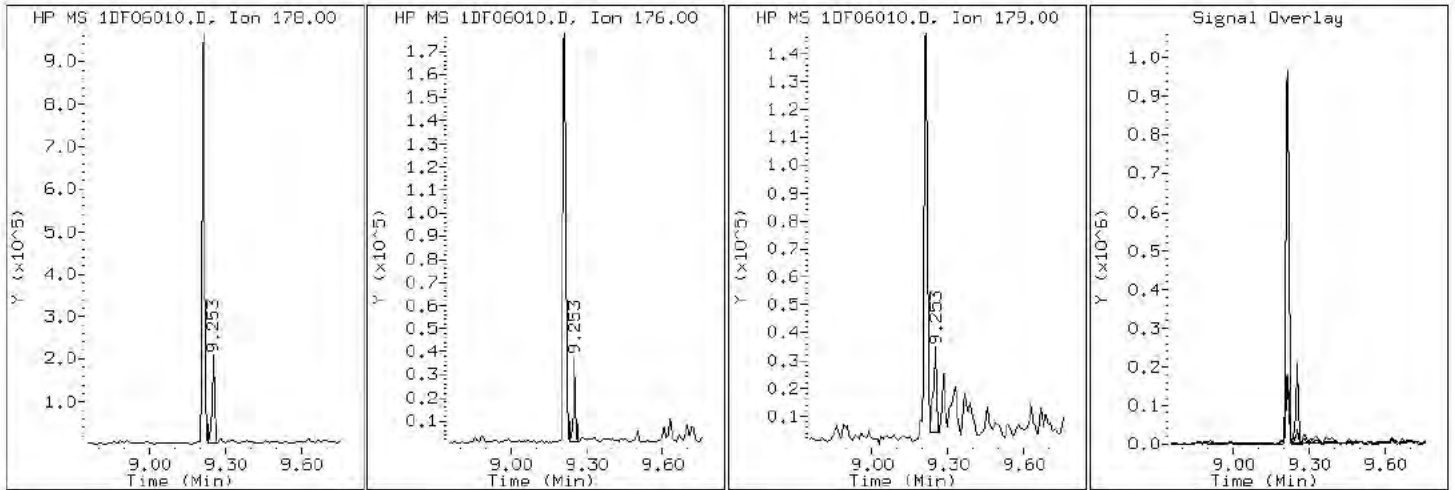
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

13 Anthracene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

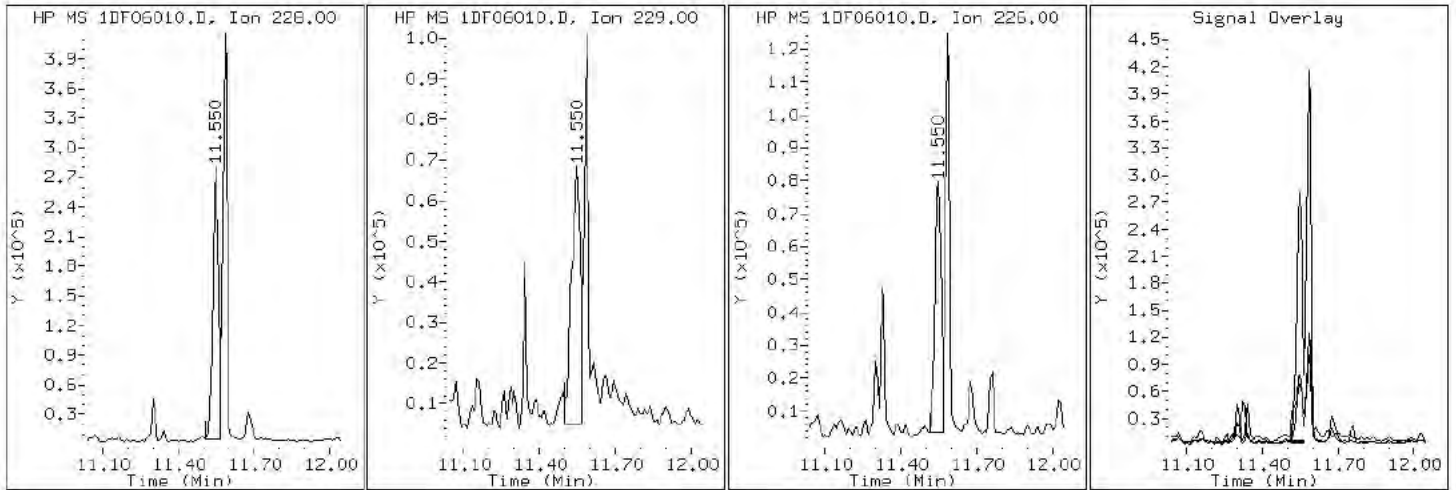
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

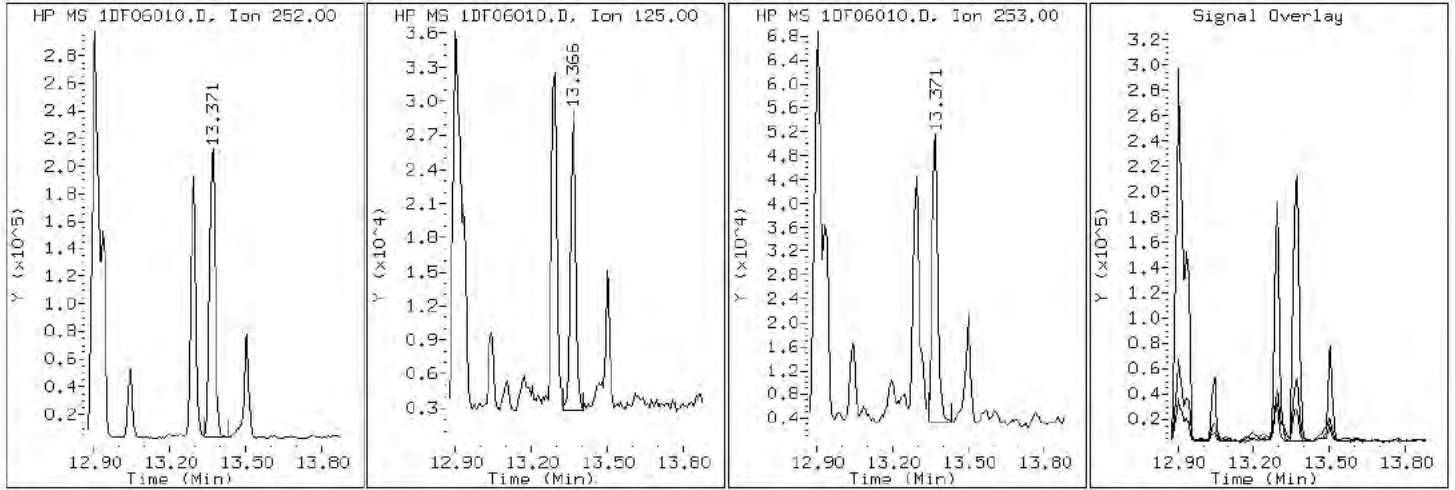
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

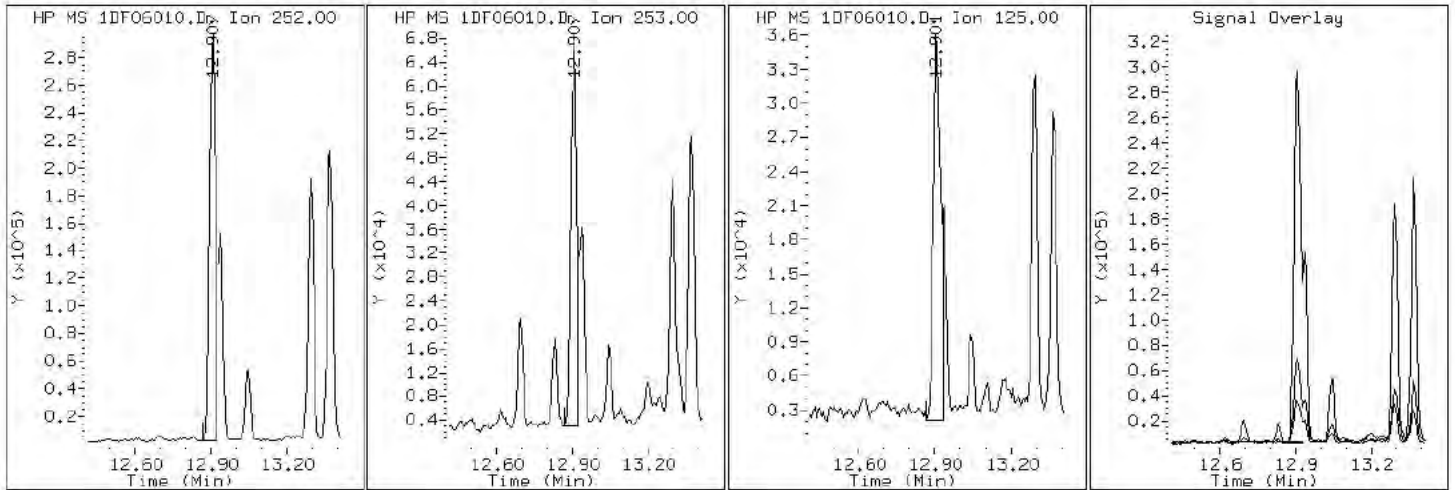
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

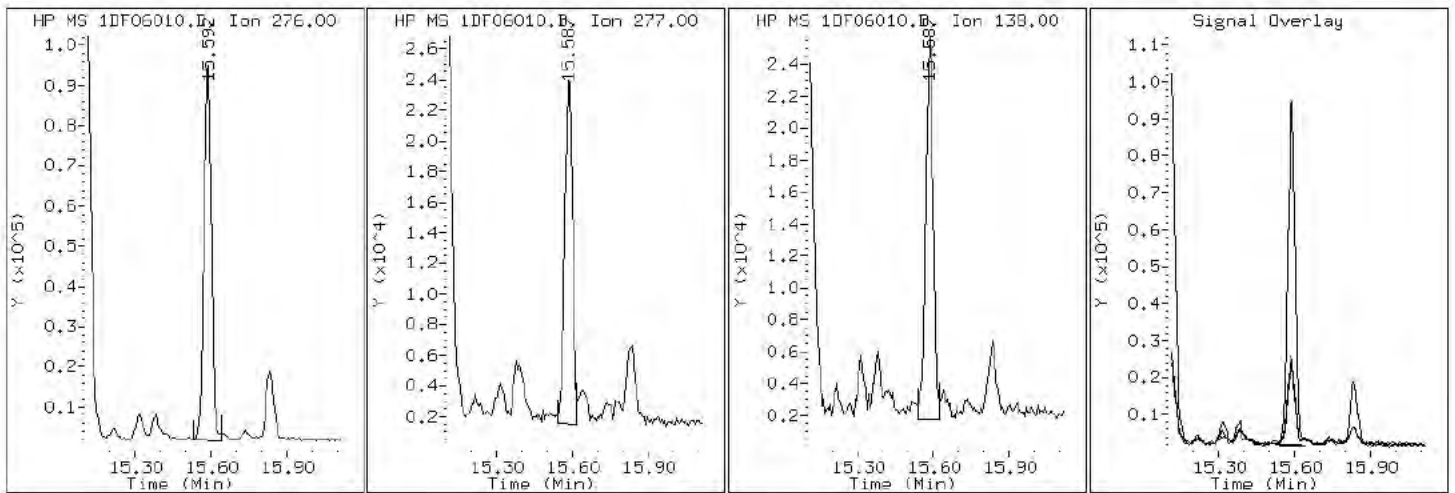
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

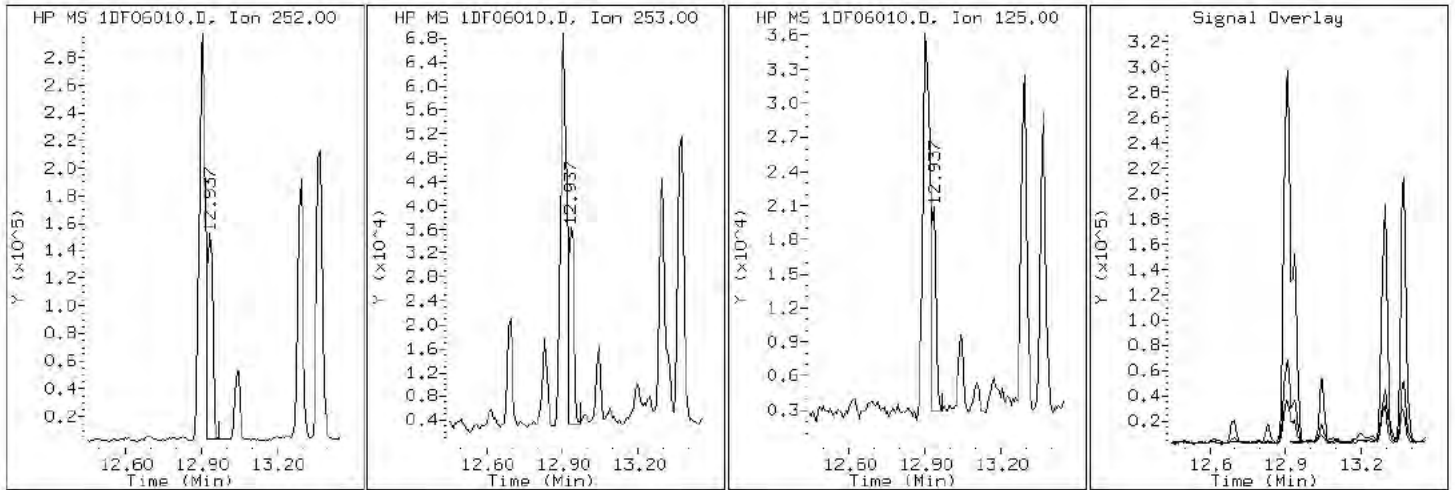
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

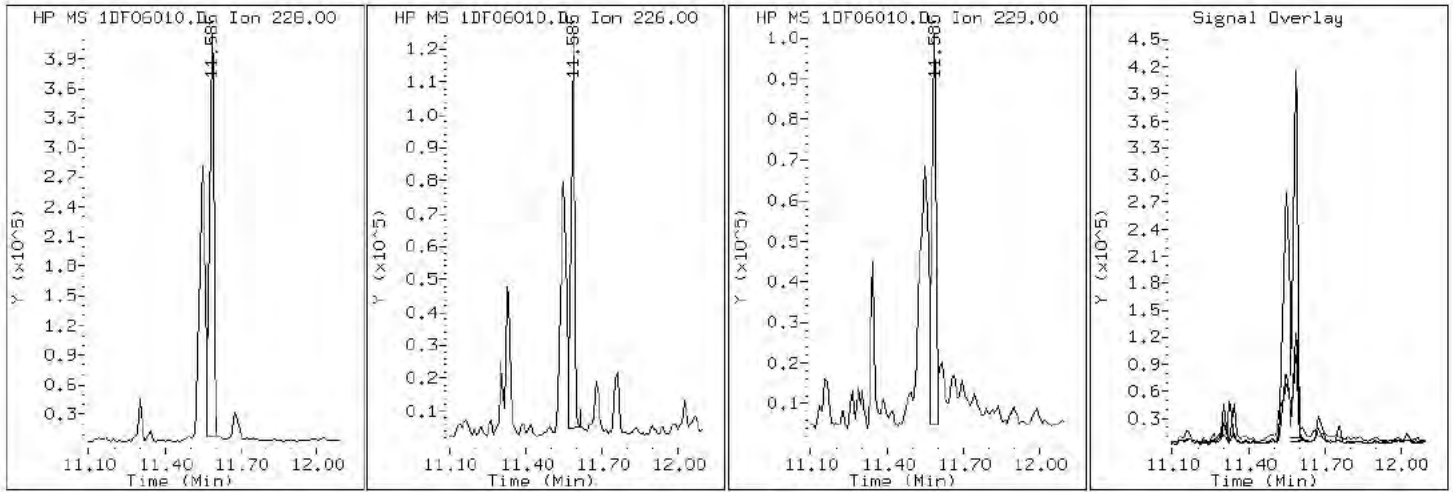
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

20 Chrysene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

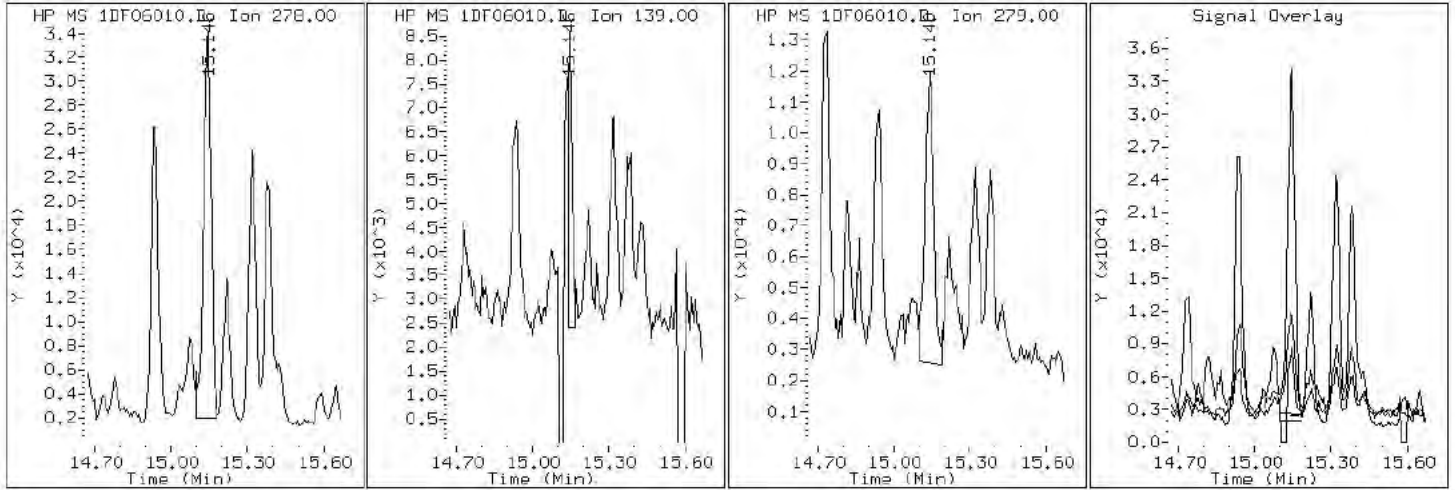
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

26 Dibenzo (a,h) anthracene





Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

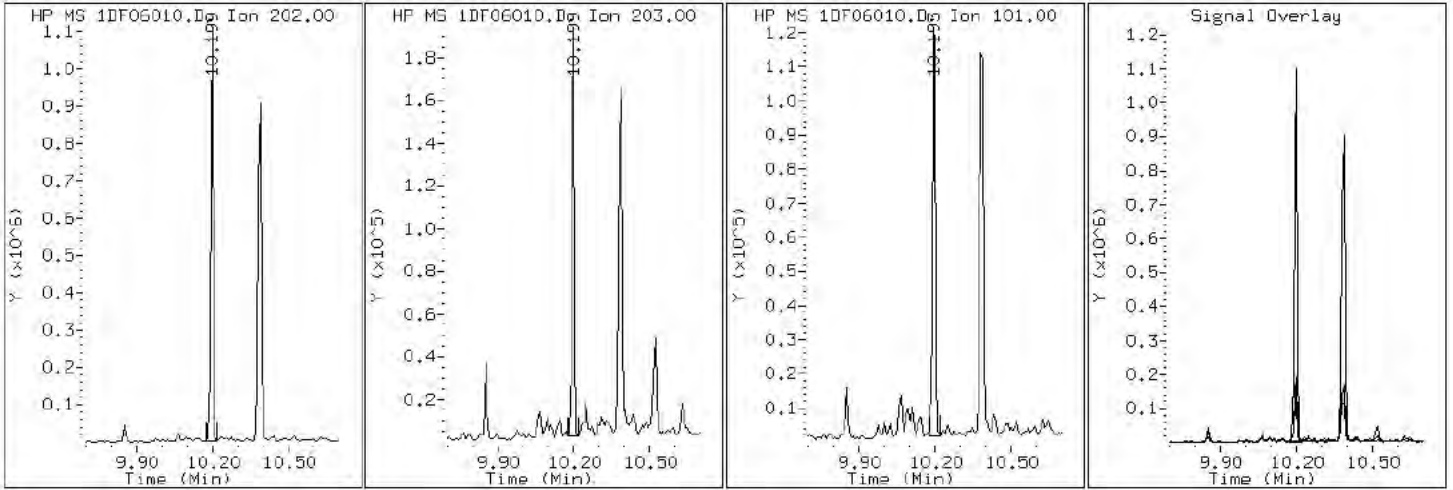
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

16 Fluoranthene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

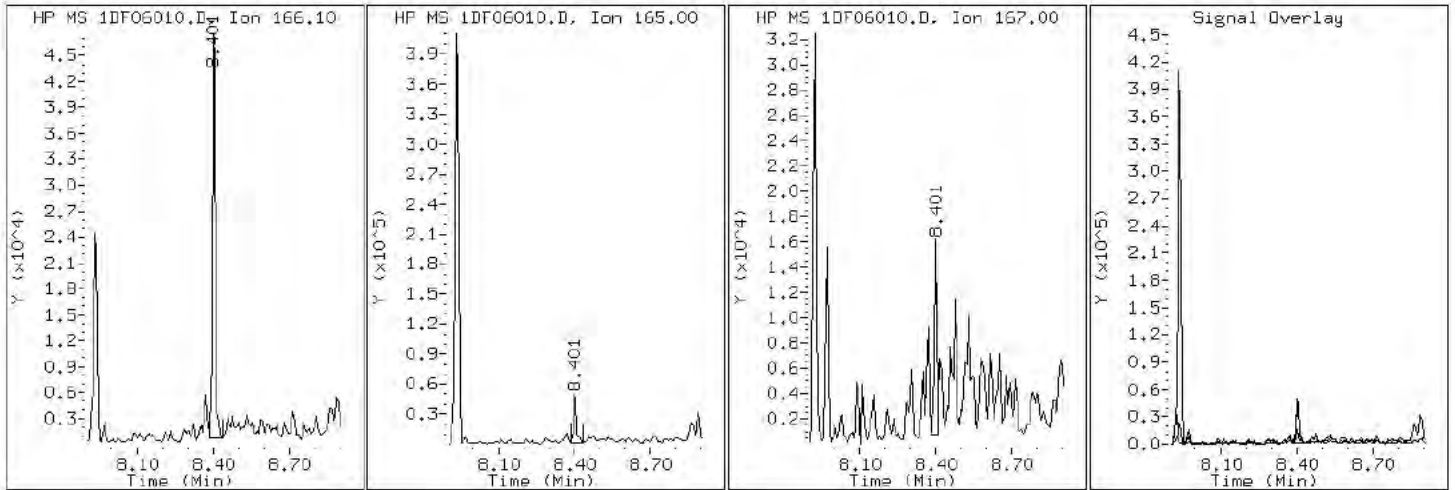
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

10 Fluorene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

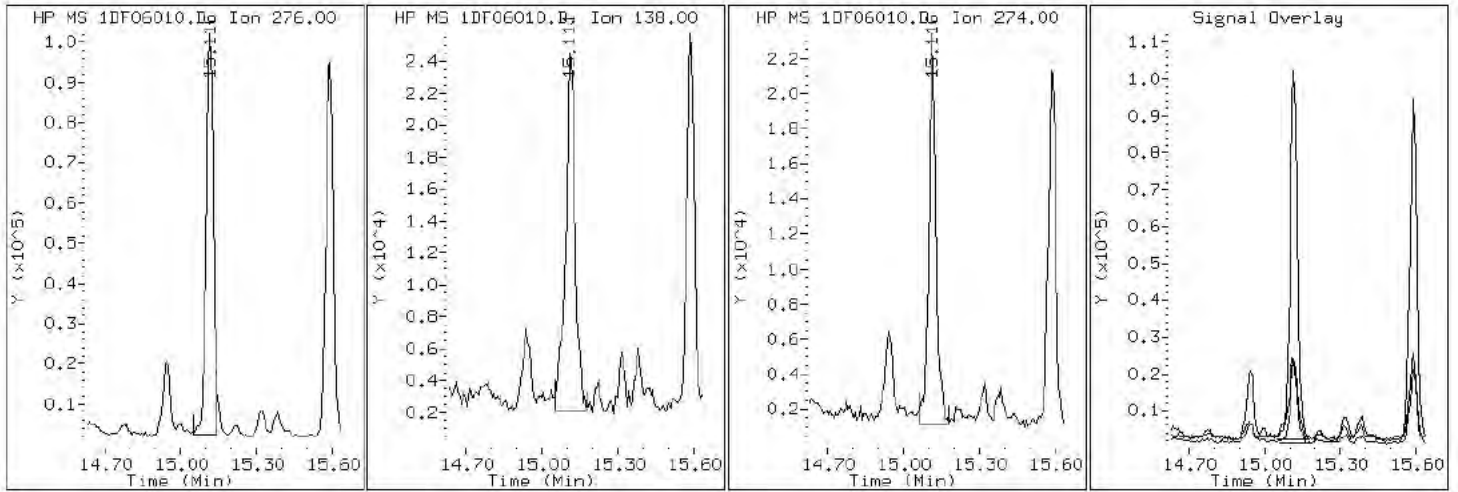
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

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



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

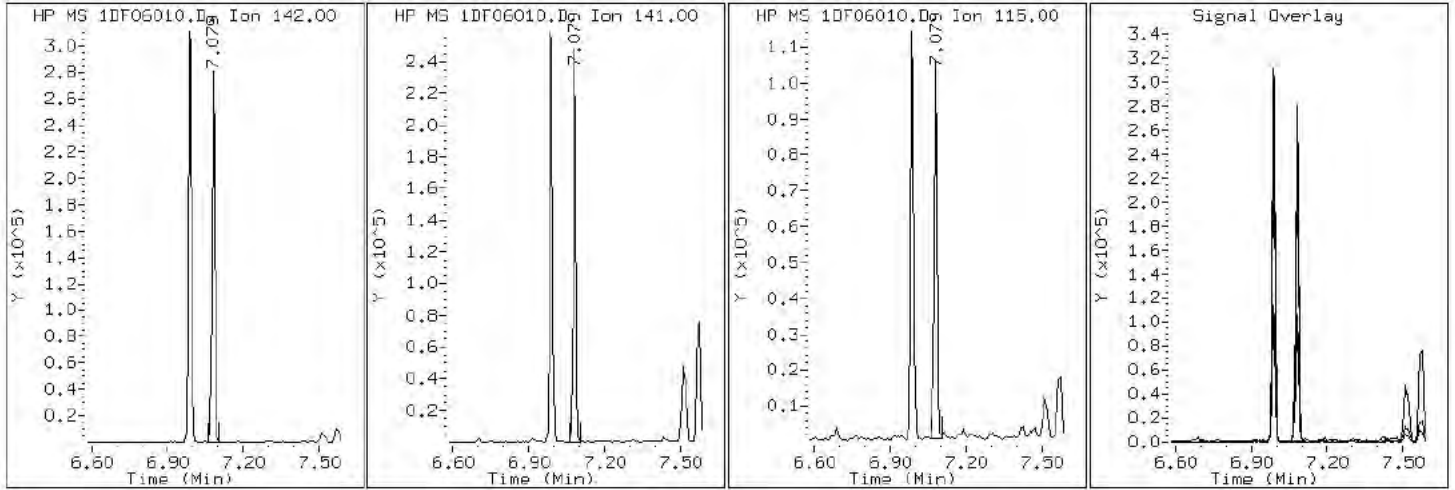
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

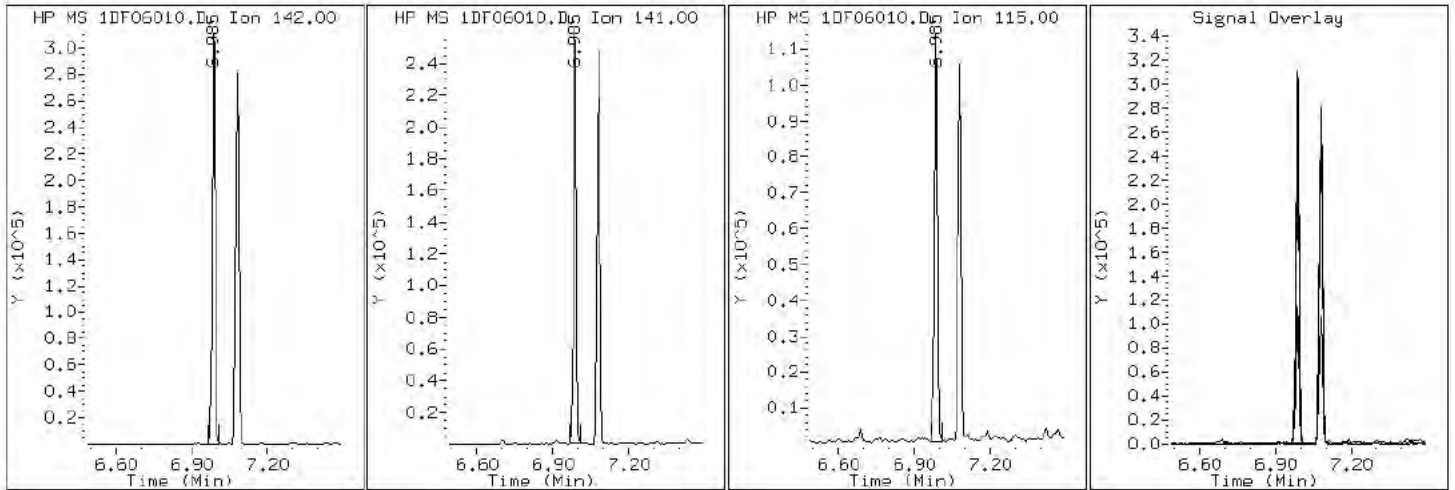
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

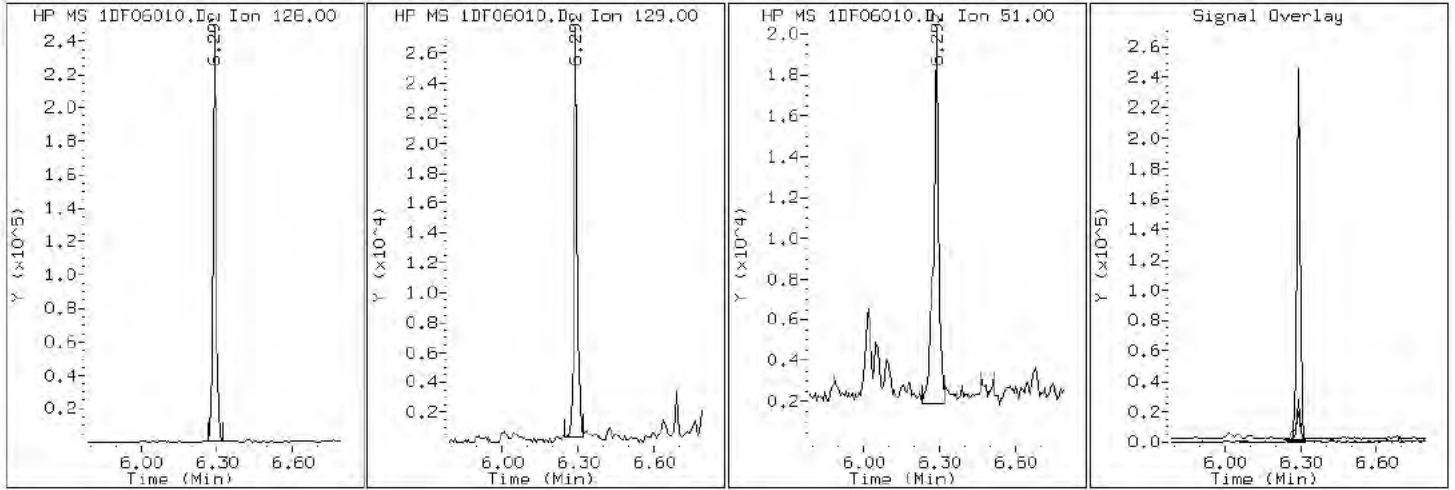
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

2 Naphthalene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

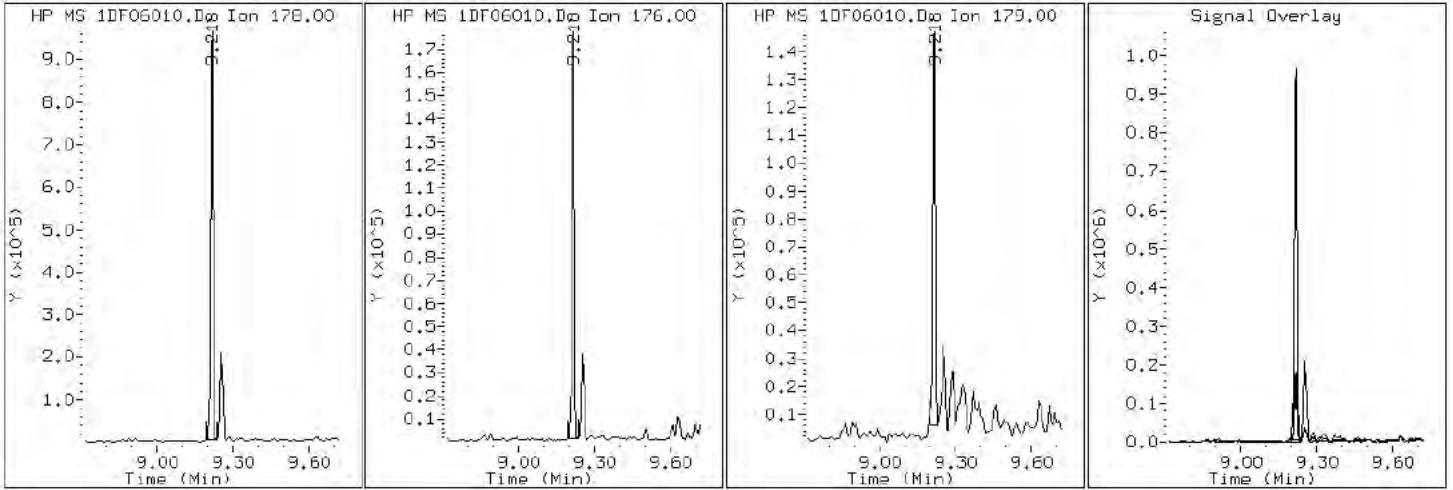
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

12 Phenanthrene



Data File: 1DF06010.D

Date: 06-JUN-2013 15:12

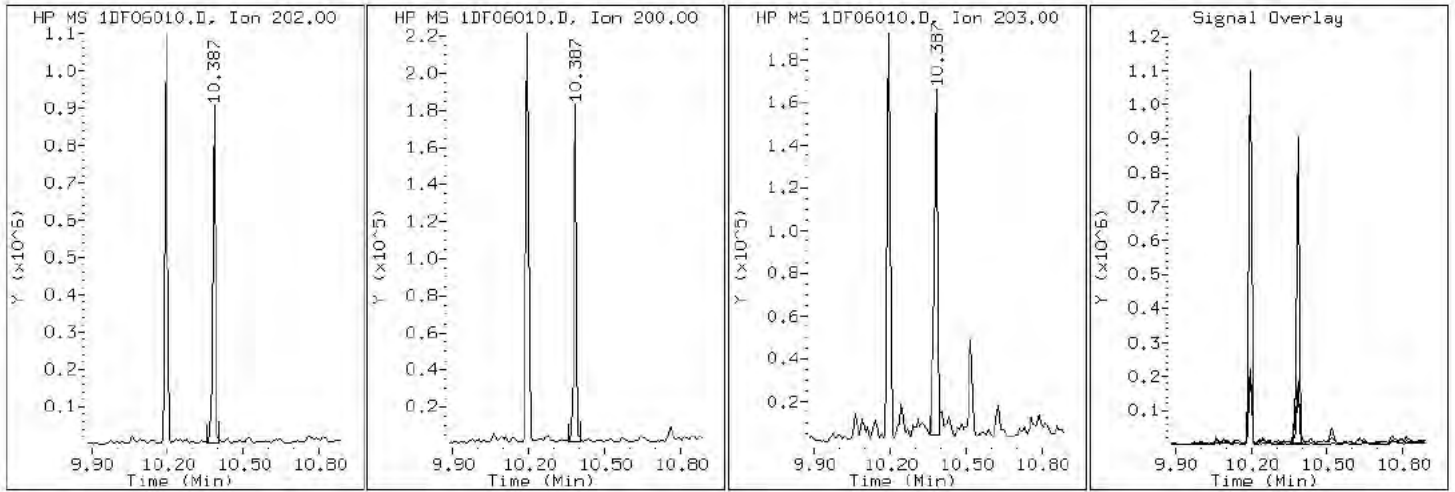
Client ID: CV0305A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-A-1-A

Operator: SCC

17 Pyrene



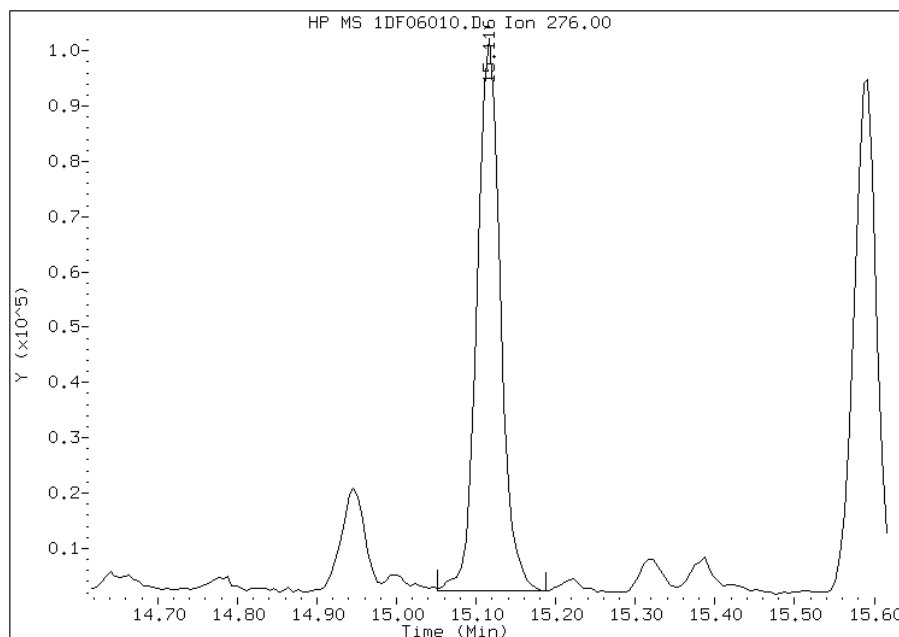


# Manual Integration Report

Data File: 1DF06010.D  
Inj. Date and Time: 06-JUN-2013 15:12  
Instrument ID: BSMSD.i  
Client ID: CV0305A-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/07/2013

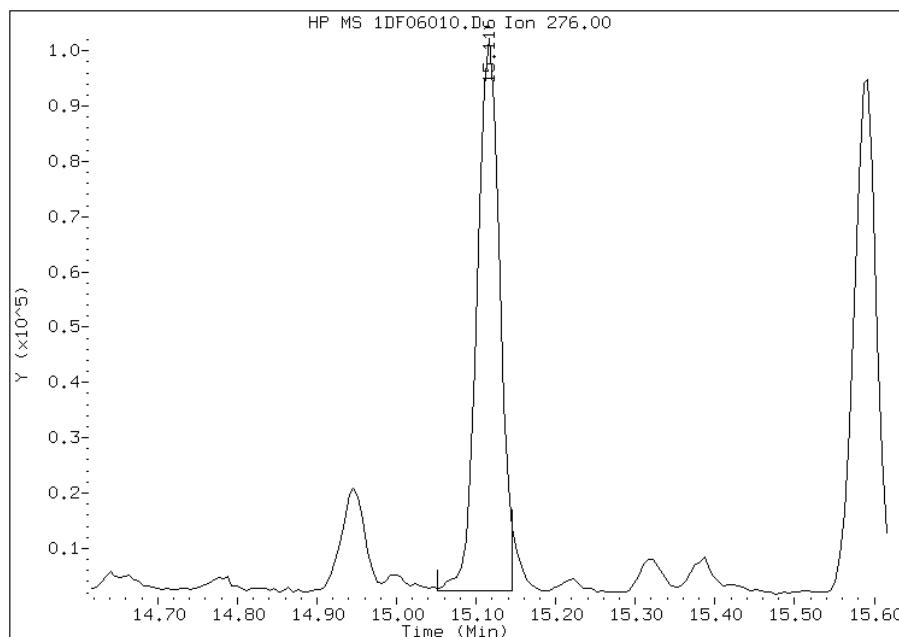
## Processing Integration Results

RT: 15.12  
Response: 202561  
Amount: 2  
Conc: 587



## Manual Integration Results

RT: 15.12  
Response: 197202  
Amount: 2  
Conc: 573



Manually Integrated By: cantins  
Modification Date: 07-Jun-2013 17:03  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0305B-CS Lab Sample ID: 680-90852-2  
 Matrix: Solid Lab File ID: 1DF06011.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 14:10  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.04(g) Date Analyzed: 06/06/2013 15:35  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 32.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138163 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1300		590	120
208-96-8	Acenaphthylene	310		240	30
120-12-7	Anthracene	3000		50	25
56-55-3	Benzo[a]anthracene	6400		47	23
50-32-8	Benzo[a]pyrene	6200		61	31
205-99-2	Benzo[b]fluoranthene	9600		72	36
191-24-2	Benzo[g,h,i]perylene	3400		120	26
207-08-9	Benzo[k]fluoranthene	3100		47	21
218-01-9	Chrysene	6800		53	27
53-70-3	Dibenz(a,h)anthracene	1100		120	24
206-44-0	Fluoranthene	15000		120	24
86-73-7	Fluorene	1200		120	24
193-39-5	Indeno[1,2,3-cd]pyrene	3500		120	42
90-12-0	1-Methylnaphthalene	1500		240	26
91-57-6	2-Methylnaphthalene	1600		240	42
91-20-3	Naphthalene	1200		240	26
85-01-8	Phenanthrene	11000		47	23
129-00-0	Pyrene	11000		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06011.D  
 Lab Smp Id: 680-90852-A-2-A Client Smp ID: CV0305B-CS  
 Inj Date : 06-JUN-2013 15:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-2-a  
 Misc Info : 680-90852-A-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m  
 Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 10  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	32.506	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.273	6.274	(1.000)	5763705	40.0000	
* 7 Acenaphthene-d10	164		7.941	7.943	(1.000)	3369861	40.0000	
* 11 Phenanthrene-d10	188		9.199	9.200	(1.000)	5782180	40.0000	
\$ 15 o-Terphenyl	230		9.504	9.506	(1.033)	111762	1.31934	520
* 19 Chrysene-d12	240		11.578	11.568	(1.000)	6514586	40.0000	
* 24 Perylene-d12	264		13.500	13.478	(1.000)	6355911	40.0000	
2 Naphthalene	128		6.290	6.292	(1.003)	444627	3.12818	1200
3 2-Methylnaphthalene	142		6.990	6.991	(1.114)	363230	4.01358	1600
4 1-Methylnaphthalene	142		7.084	7.085	(1.129)	355711	3.81790	1500
5 1,1'-Biphenyl	154		7.424	7.426	(0.935)	73107	0.64212	250
6 Acenaphthylene	152		7.812	7.814	(0.984)	108917	0.77954	310
8 Acenaphthene	154		7.965	7.967	(1.003)	282884	3.19160	1200
9 Dibenzofuran	168		8.112	8.113	(1.021)	240295	1.96620	770
10 Fluorene	166		8.406	8.407	(1.058)	314205	3.13310	1200

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.222	9.218	(1.003)	4507966	28.7864	11000
13 Anthracene	178	9.258	9.259	(1.006)	1143081	7.52296	3000
16 Fluoranthene	202	10.209	10.199	(1.110)	5908776	36.8819	14000
17 Pyrene	202	10.397	10.387	(0.898)	5256042	27.5573	11000
18 Benzo(a)anthracene	228	11.561	11.545	(0.998)	3152992	16.3081	6400
20 Chrysene	228	11.602	11.598	(1.002)	3016126	17.3243	6800
21 Benzo(b)fluoranthene	252	12.936	12.914	(0.958)	3871939	24.3167	9600
22 Benzo(k)fluoranthene	252	12.959	12.955	(0.960)	1329146	7.97112	3100
23 Benzo(a)pyrene	252	13.400	13.378	(0.993)	2446331	15.6173	6200
25 Indeno(1,2,3-cd)pyrene	276	15.156	15.135	(1.123)	1423109	8.76208	3400(M)
26 Dibenzo(a,h)anthracene	278	15.174	15.170	(1.124)	430093	2.90329	1100
27 Benzo(g,h,i)perylene	276	15.632	15.616	(1.158)	1258471	8.72001	3400

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF06011.D

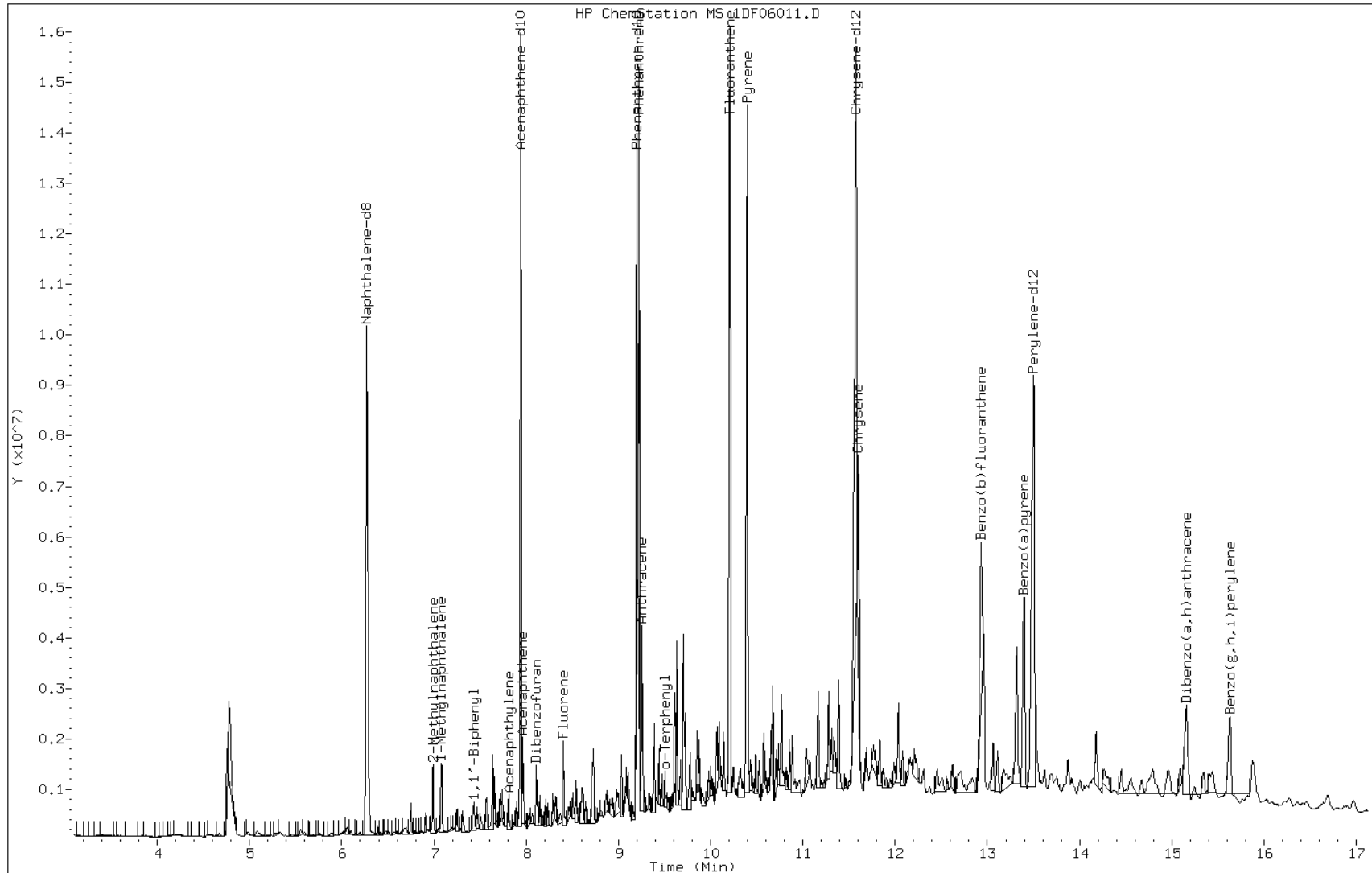
Date: 06-JUN-2013 15:35

Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

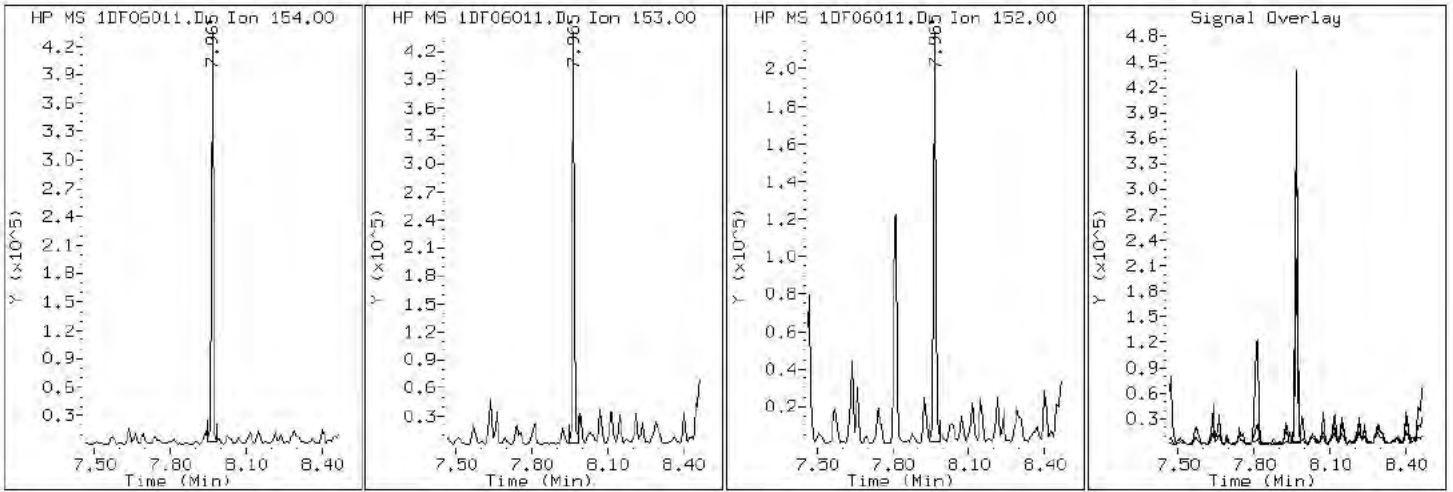
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

8 Acenaphthene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

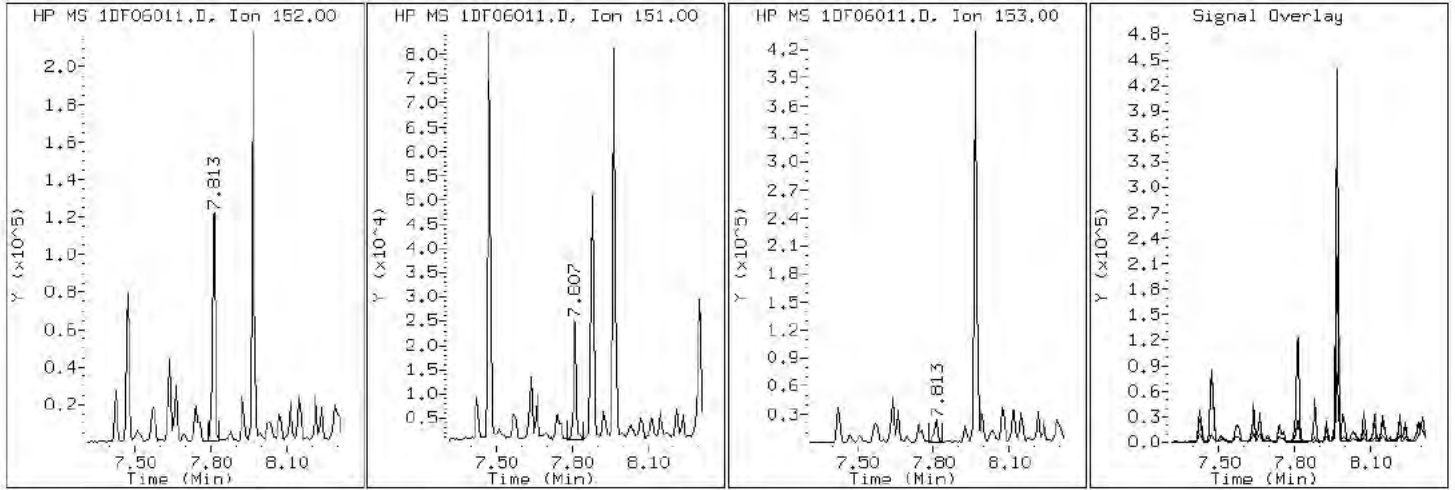
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

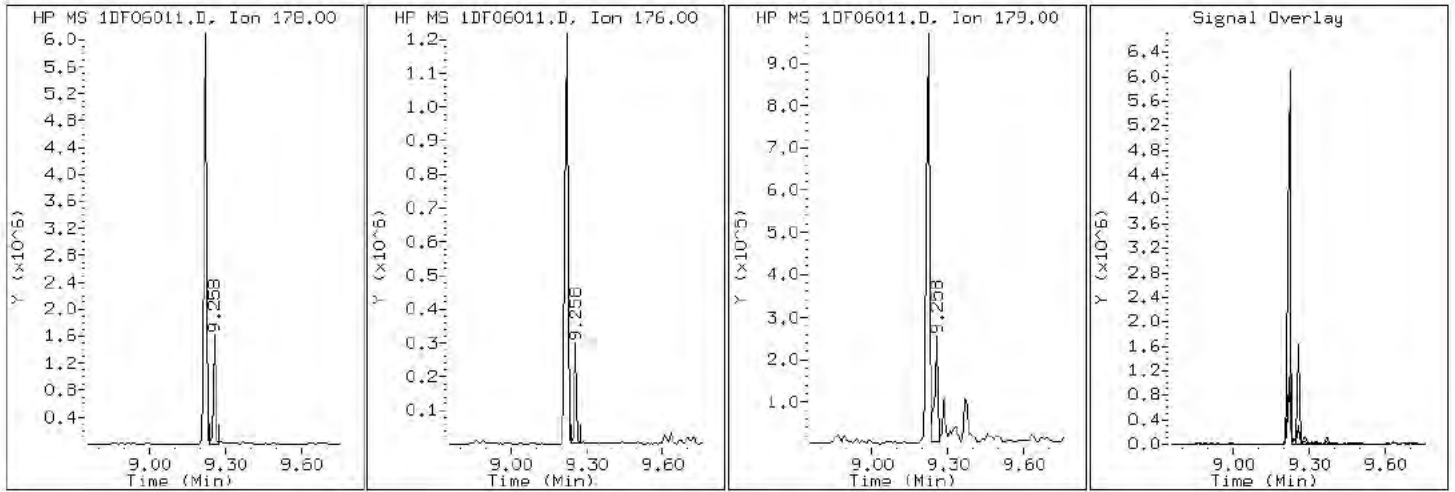
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

13 Anthracene





Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

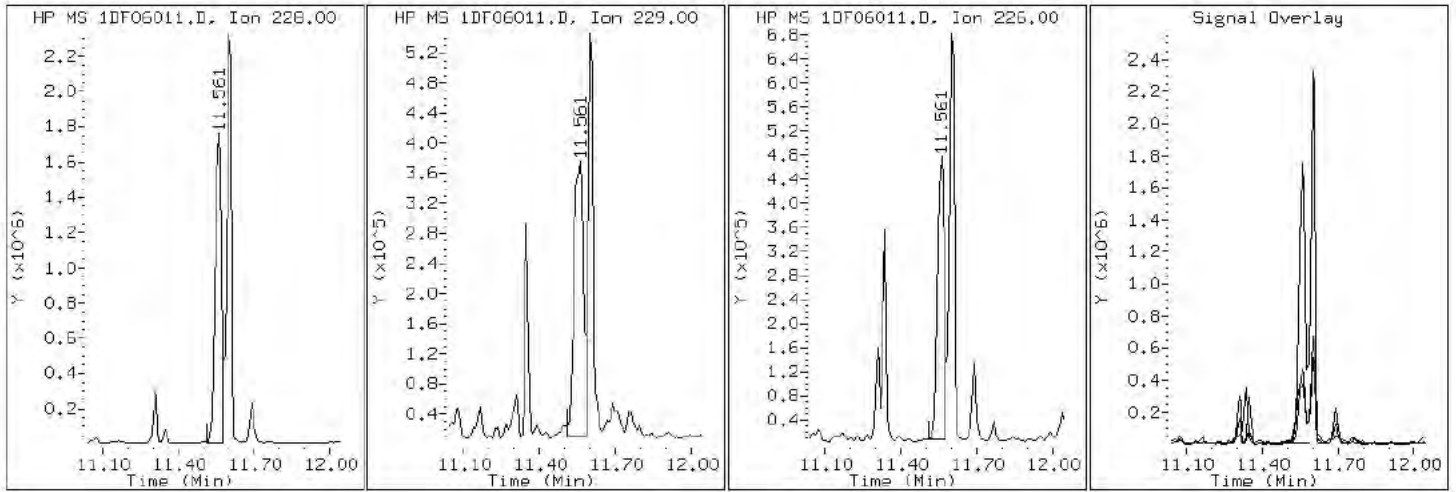
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

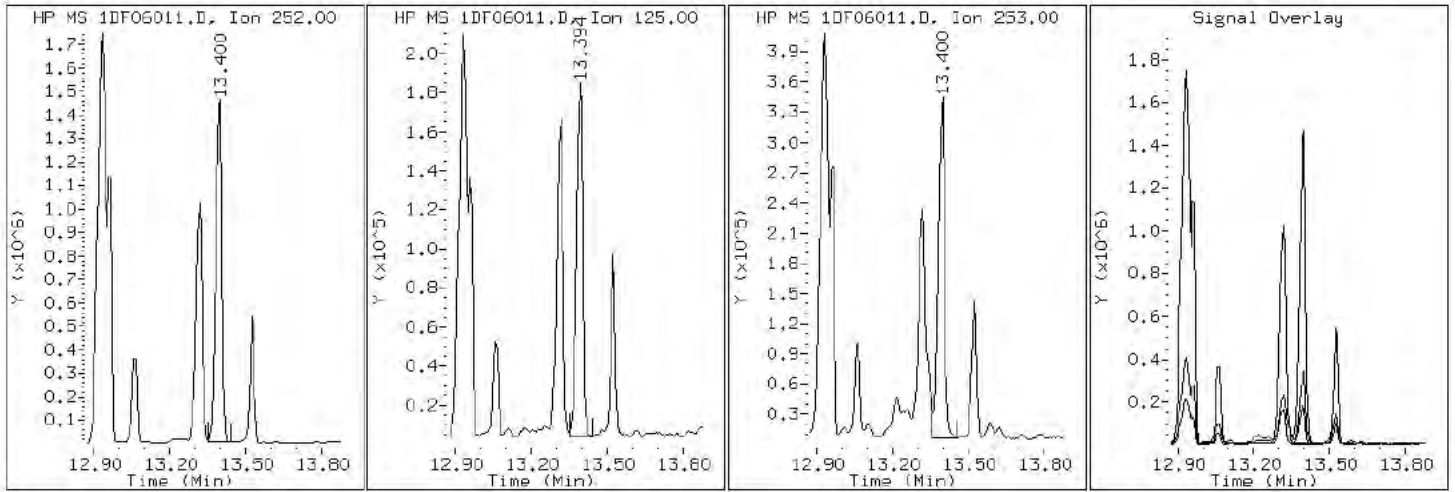
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

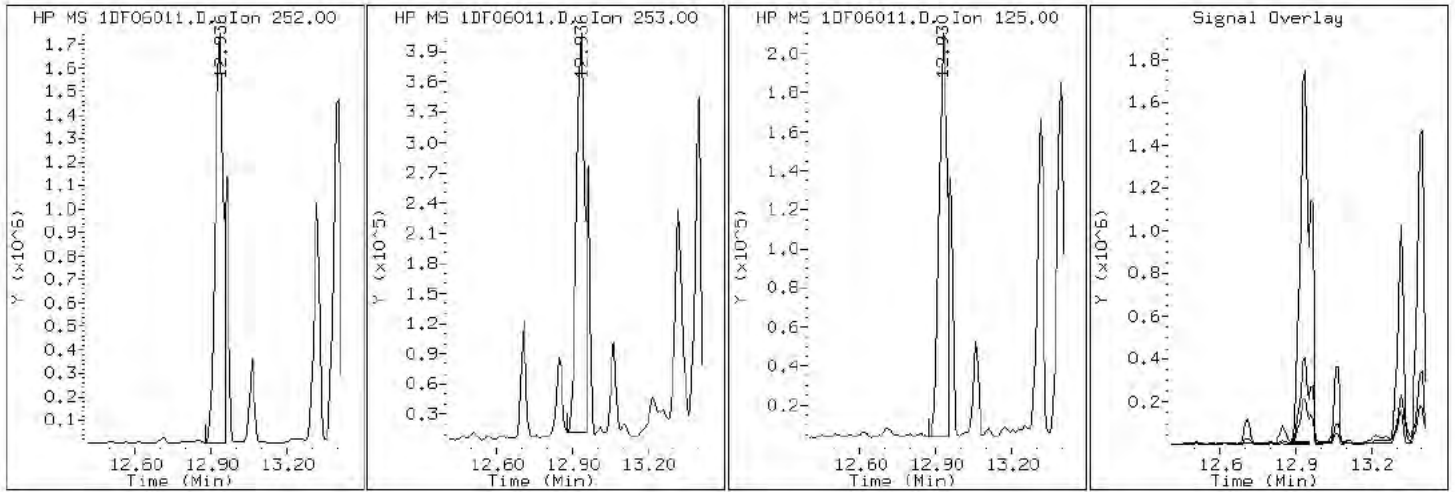
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

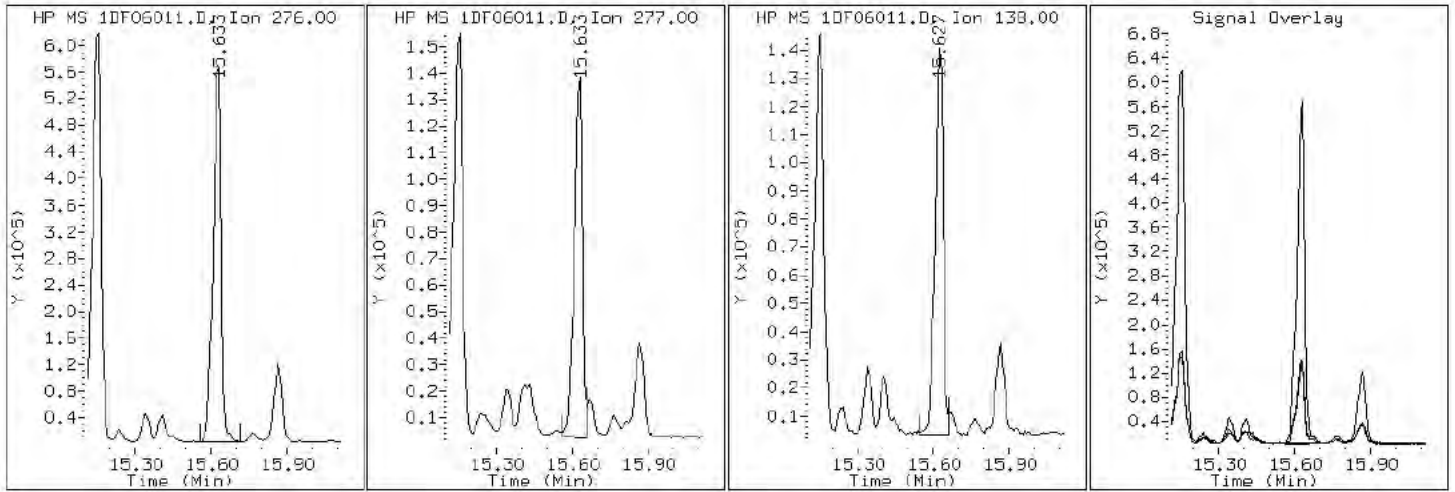
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

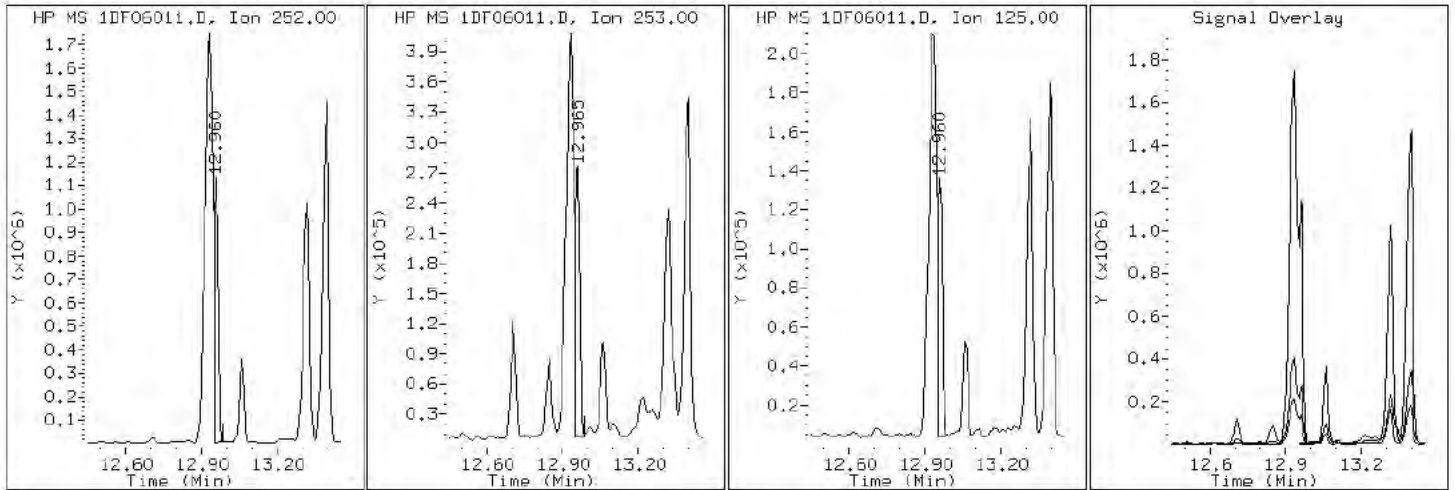
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

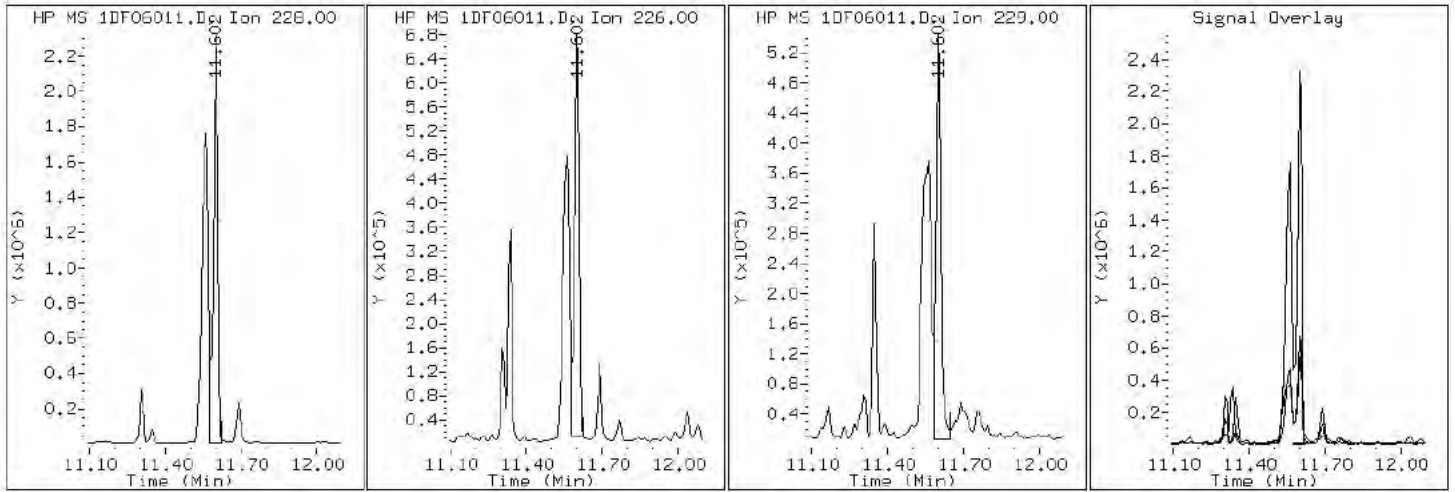
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

20 Chrysene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

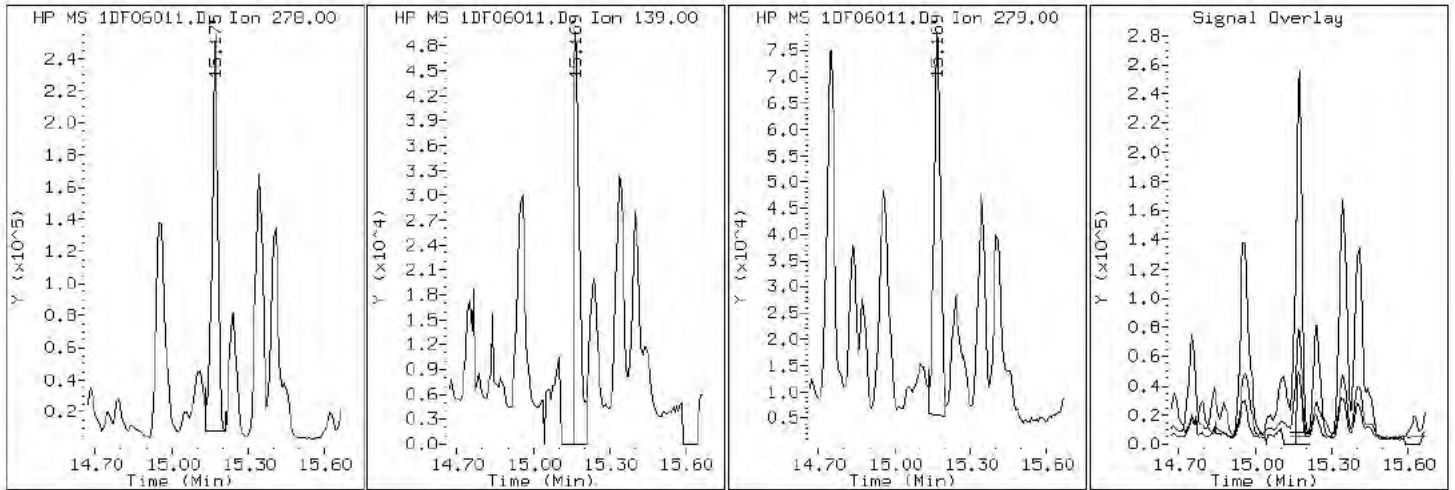
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

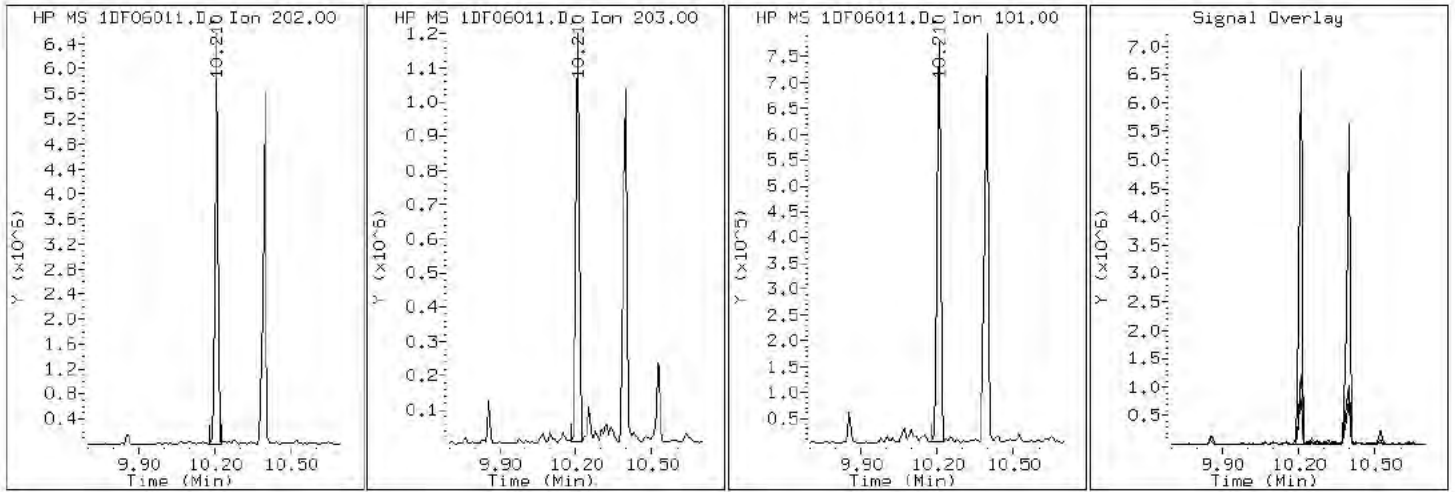
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

16 Fluoranthene





Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

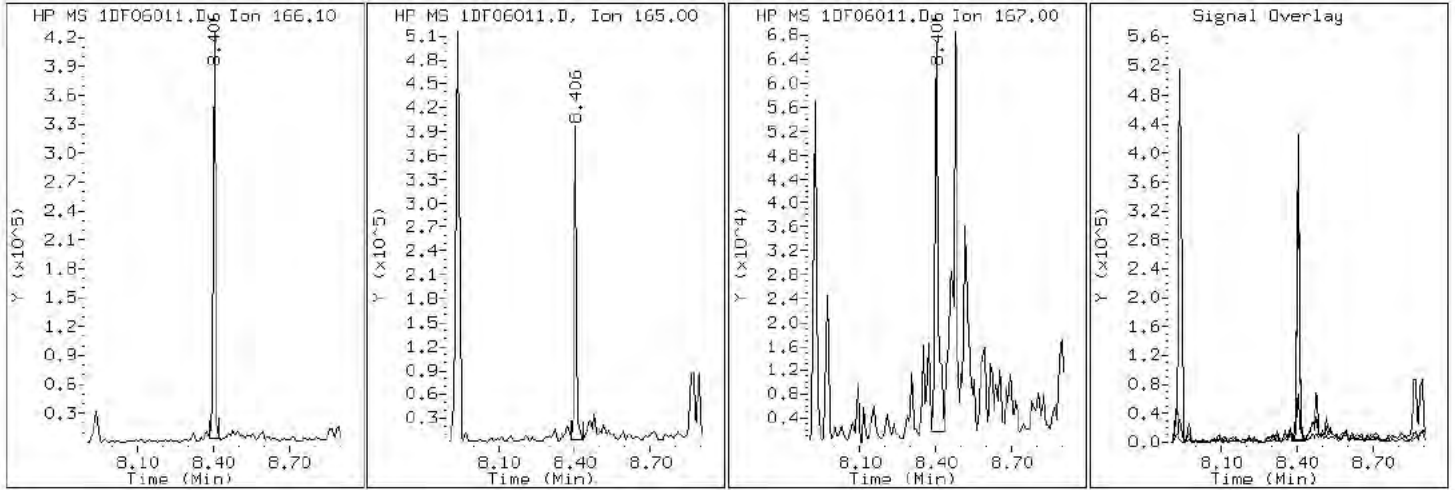
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

10 Fluorene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

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



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

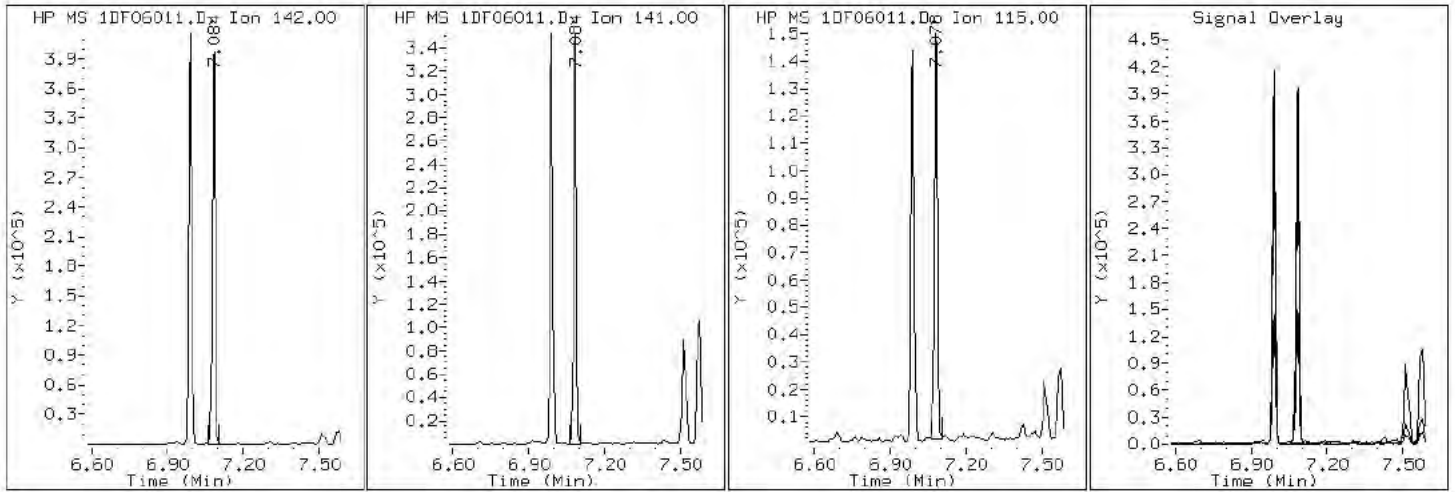
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

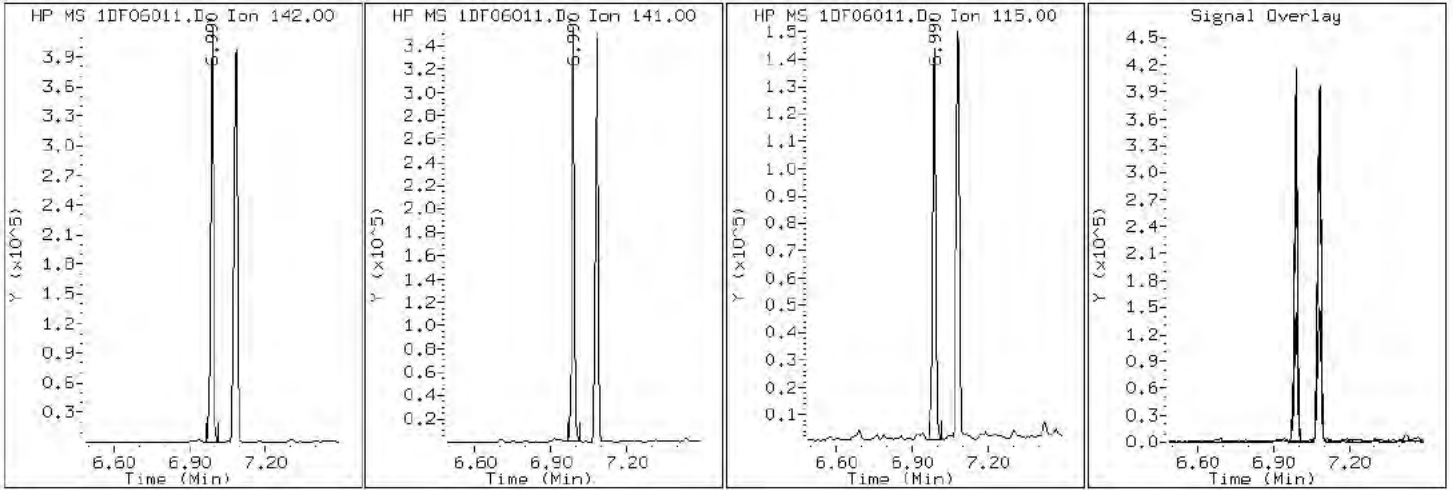
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

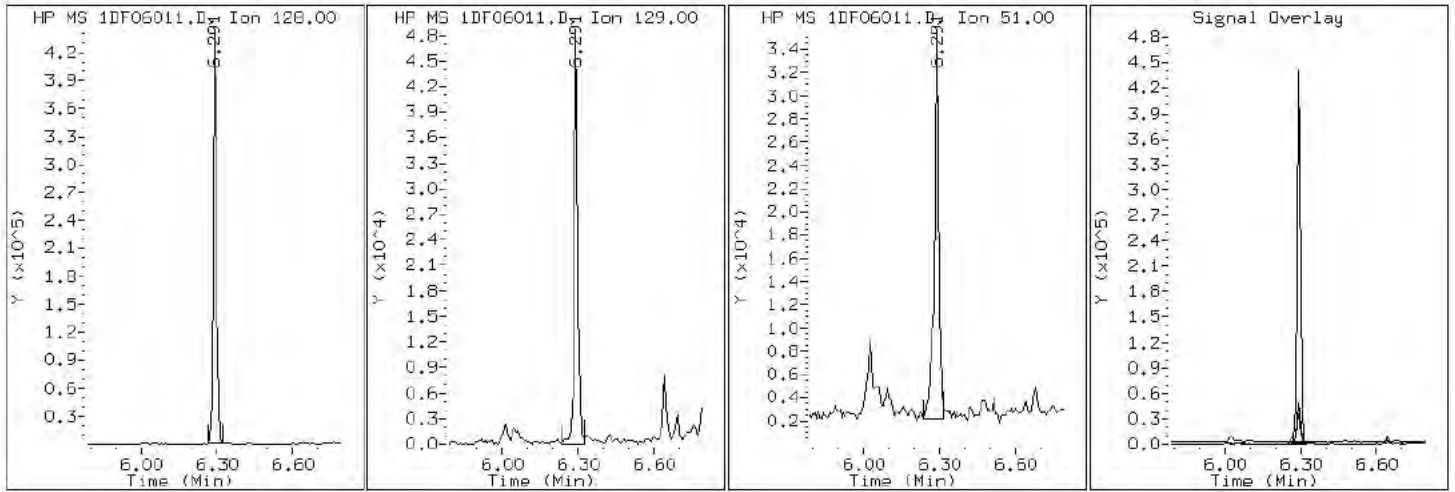
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

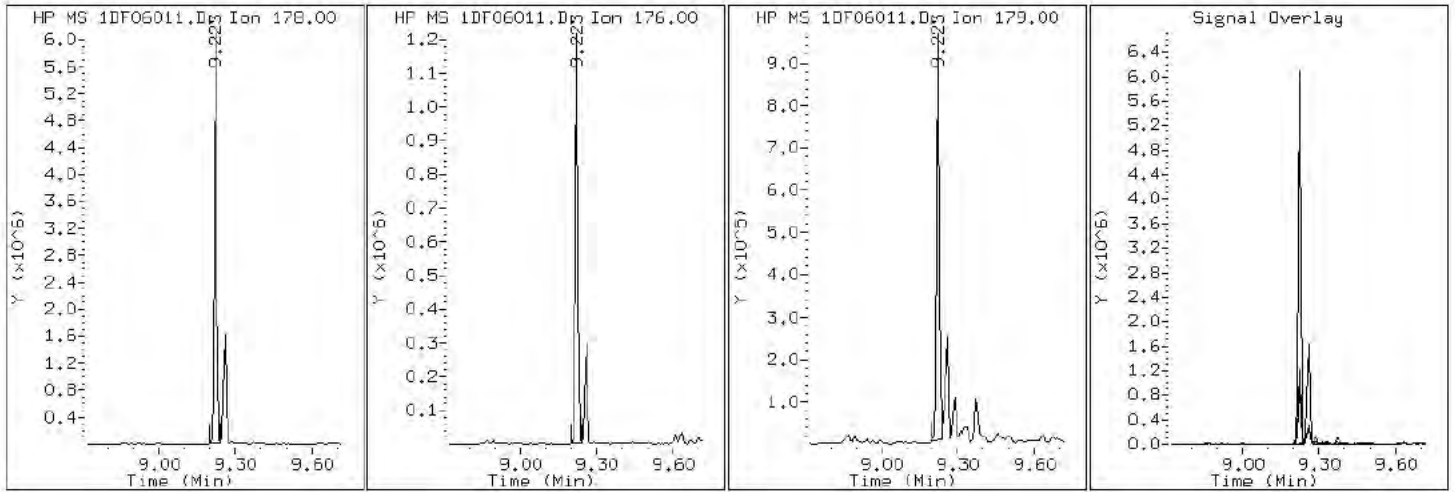
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

12 Phenanthrene



Data File: 1DF06011.D

Date: 06-JUN-2013 15:35

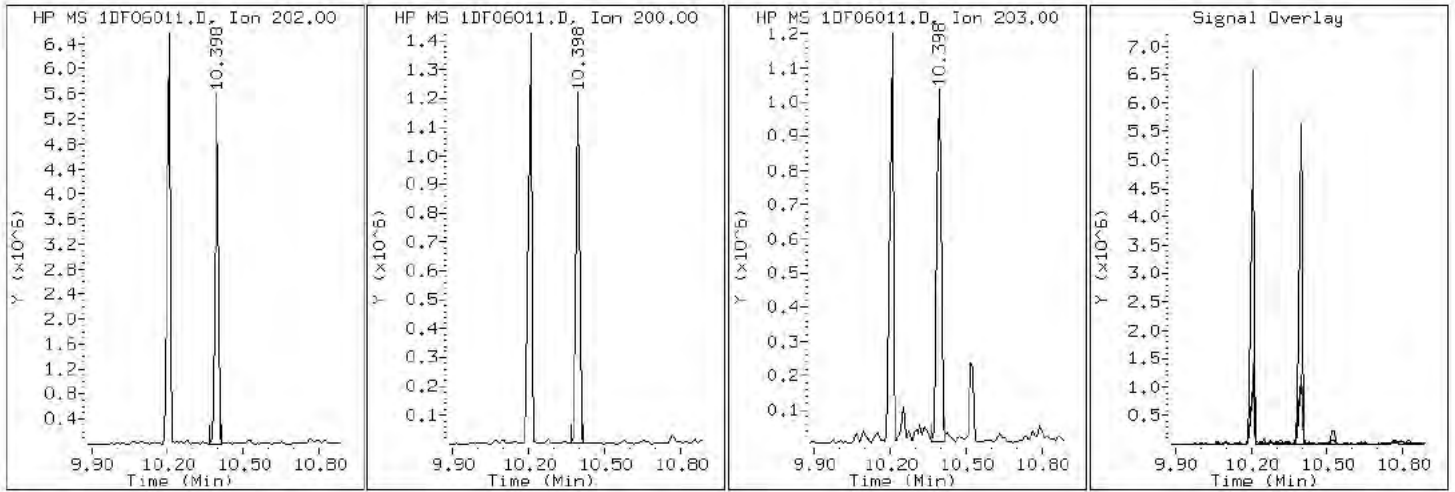
Client ID: CV0305B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-2-a

Operator: SCC

17 Pyrene

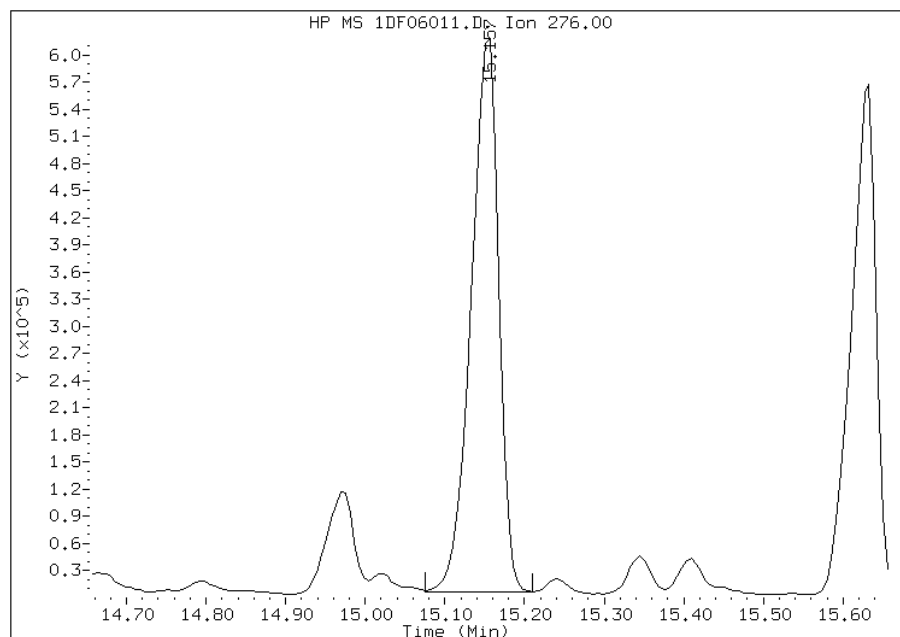


# Manual Integration Report

Data File: 1DF06011.D  
Inj. Date and Time: 06-JUN-2013 15:35  
Instrument ID: BSMSD.i  
Client ID: CV0305B-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/07/2013

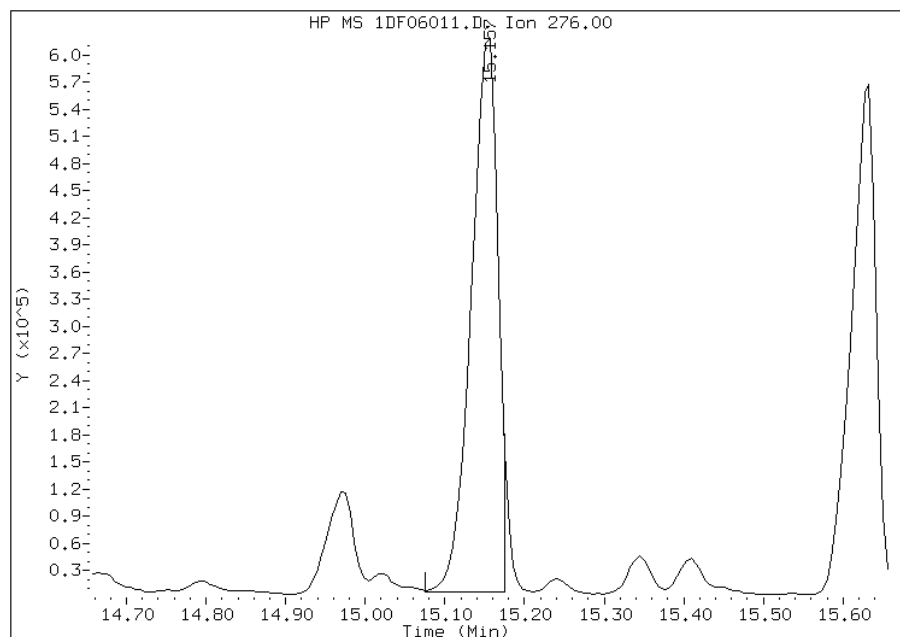
## Processing Integration Results

RT: 15.16  
Response: 1462583  
Amount: 9  
Conc: 3547



## Manual Integration Results

RT: 15.16  
Response: 1423109  
Amount: 9  
Conc: 3453



Manually Integrated By: cantins  
Modification Date: 07-Jun-2013 17:03  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0650A-CS Lab Sample ID: 680-90852-3  
 Matrix: Solid Lab File ID: 1DF06012.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:20  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.93(g) Date Analyzed: 06/06/2013 15:58  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138163 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	130		47	5.9
120-12-7	Anthracene	53		10	5.0
56-55-3	Benzo[a]anthracene	120		9.5	4.6
50-32-8	Benzo[a]pyrene	98		12	6.2
205-99-2	Benzo[b]fluoranthene	220		14	7.2
191-24-2	Benzo[g,h,i]perylene	77		24	5.2
207-08-9	Benzo[k]fluoranthene	49		9.5	4.3
218-01-9	Chrysene	250		11	5.3
53-70-3	Dibenz(a,h)anthracene	32		24	4.9
206-44-0	Fluoranthene	280		24	4.7
86-73-7	Fluorene	46		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	70		24	8.4
90-12-0	1-Methylnaphthalene	210		47	5.2
91-57-6	2-Methylnaphthalene	270		47	8.4
91-20-3	Naphthalene	660		47	5.2
85-01-8	Phenanthrene	380		9.5	4.6
129-00-0	Pyrene	210		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	28	X	30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06012.D  
 Lab Smp Id: 680-90852-A-3-A Client Smp ID: CV0650A-CS  
 Inj Date : 06-JUN-2013 15:58  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-3-a  
 Misc Info : 680-90852-A-3-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m  
 Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	15.315	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.275	6.274	(1.000)	5687749	40.0000	
* 7 Acenaphthene-d10	164		7.943	7.943	(1.000)	3338466	40.0000	
* 11 Phenanthrene-d10	188		9.201	9.200	(1.000)	5717420	40.0000	
\$ 15 o-Terphenyl	230		9.506	9.506	(1.033)	231281	2.76118	220(R)
* 19 Chrysene-d12	240		11.574	11.568	(1.000)	6332847	40.0000	
* 24 Perylene-d12	264		13.502	13.478	(1.000)	6226365	40.0000	
2 Naphthalene	128		6.292	6.292	(1.003)	1175589	8.38133	660
3 2-Methylnaphthalene	142		6.991	6.991	(1.114)	305530	3.42110	270
4 1-Methylnaphthalene	142		7.080	7.085	(1.128)	239453	2.60441	200
5 1,1'-Biphenyl	154		7.426	7.426	(0.935)	137789	1.22162	97
6 Acenaphthylene	152		7.808	7.814	(0.983)	219974	1.58920	120
8 Acenaphthene	154		7.967	7.967	(1.003)	18025	0.20528	16(Q)
9 Dibenzofuran	168		8.114	8.113	(1.021)	100914	0.83349	66
10 Fluorene	166		8.407	8.407	(1.058)	58028	0.58407	46

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.218	9.218	(1.002)	743432	4.80109	380
13 Anthracene	178	9.259	9.259	(1.006)	101154	0.67327	53
16 Fluoranthene	202	10.199	10.199	(1.109)	569522	3.59516	280
17 Pyrene	202	10.388	10.387	(0.897)	485175	2.61676	210
18 Benzo(a)anthracene	228	11.563	11.545	(0.999)	273716	1.45636	120
20 Chrysene	228	11.598	11.598	(1.002)	537077	3.17344	250
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.956)	438536	2.81141	220(H)
22 Benzo(k)fluoranthene	252	12.949	12.955	(0.959)	101103	0.61895	49(H)
23 Benzo(a)pyrene	252	13.384	13.378	(0.991)	176963	1.24443	98
25 Indeno(1,2,3-cd)pyrene	276	15.141	15.135	(1.121)	120120	0.89025	70(M)
26 Dibenzo(a,h)anthracene	278	15.170	15.170	(1.124)	49283	0.40315	32
27 Benzo(g,h,i)perylene	276	15.623	15.616	(1.157)	137705	0.97402	77

QC Flag Legend

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

Data File: 1DF06012.D

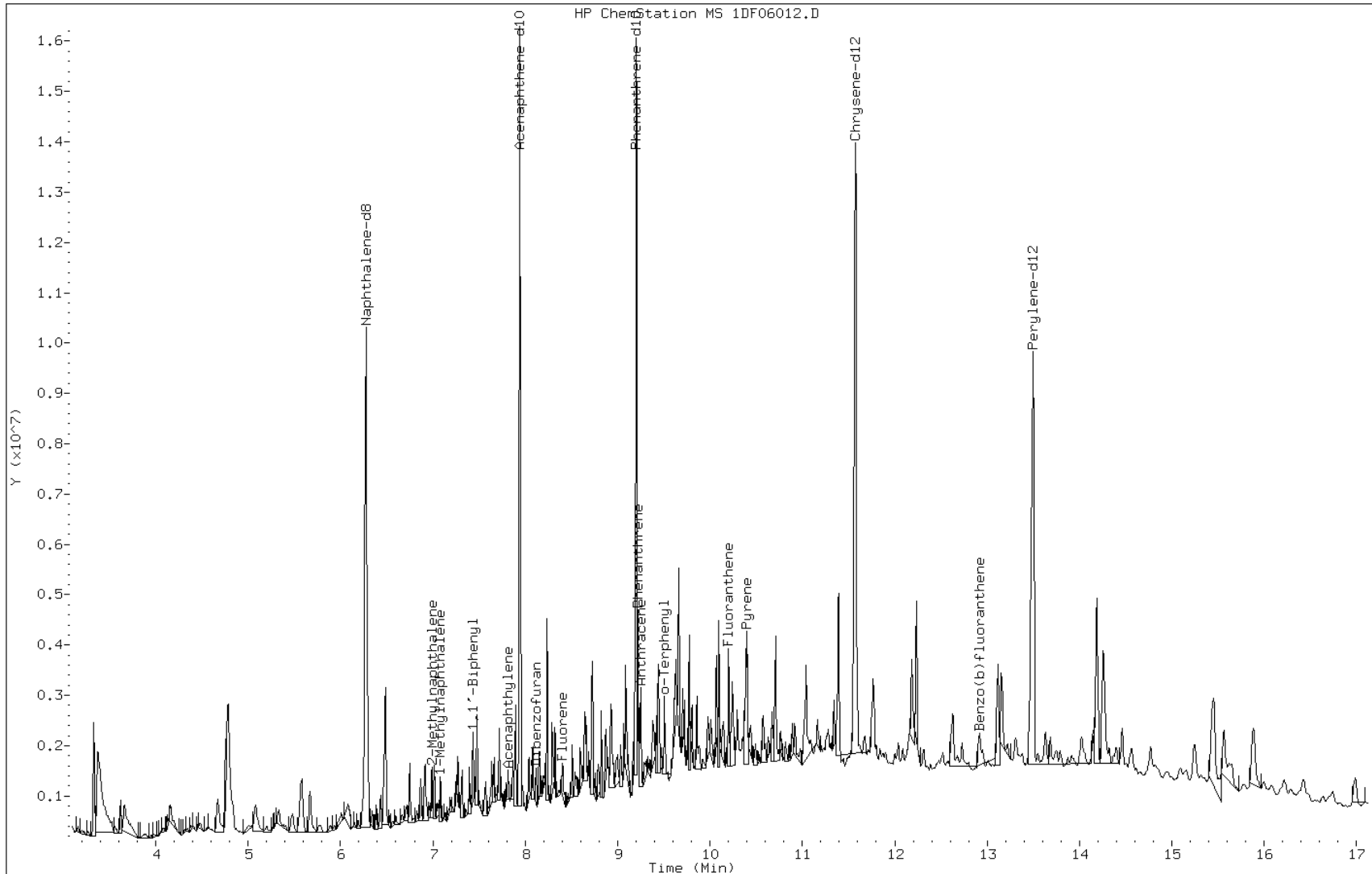
Date: 06-JUN-2013 15:58

Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

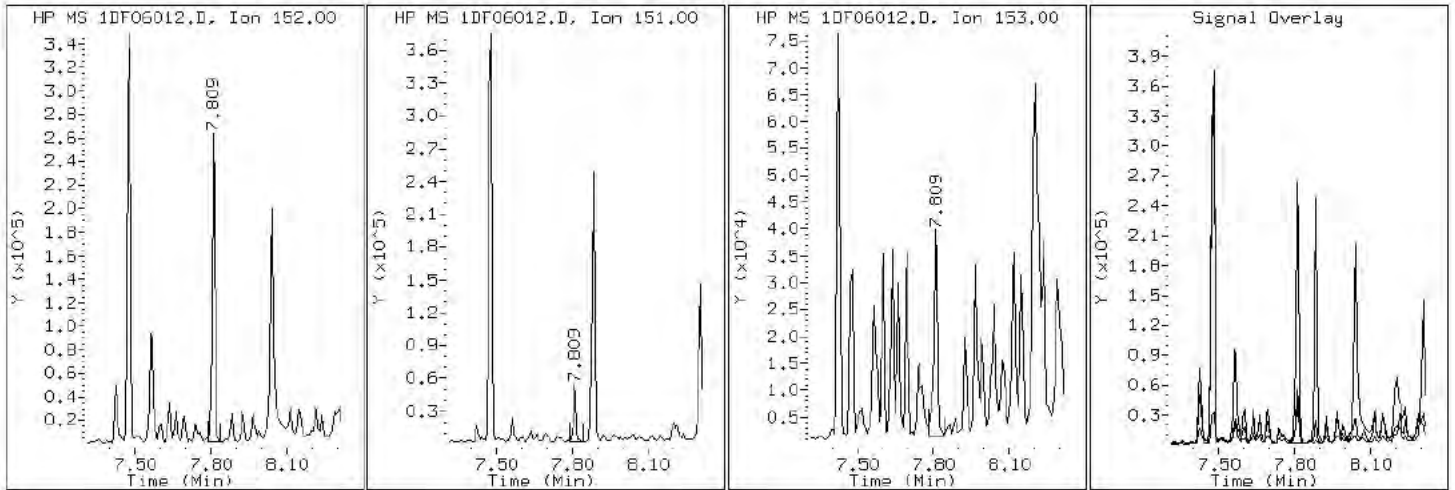
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

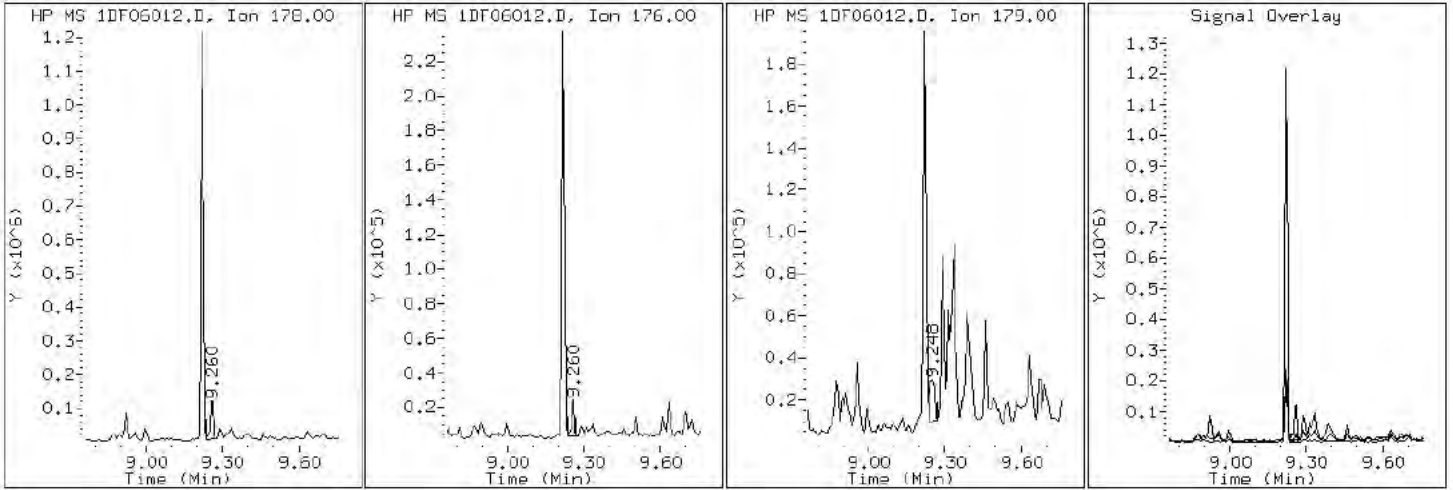
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

13 Anthracene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

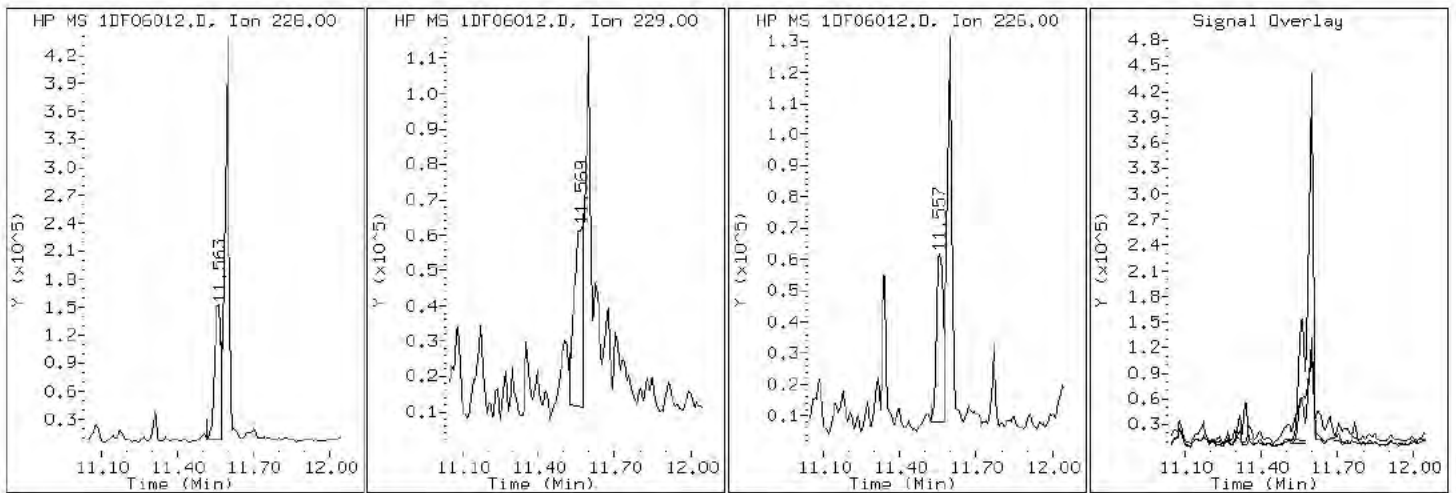
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

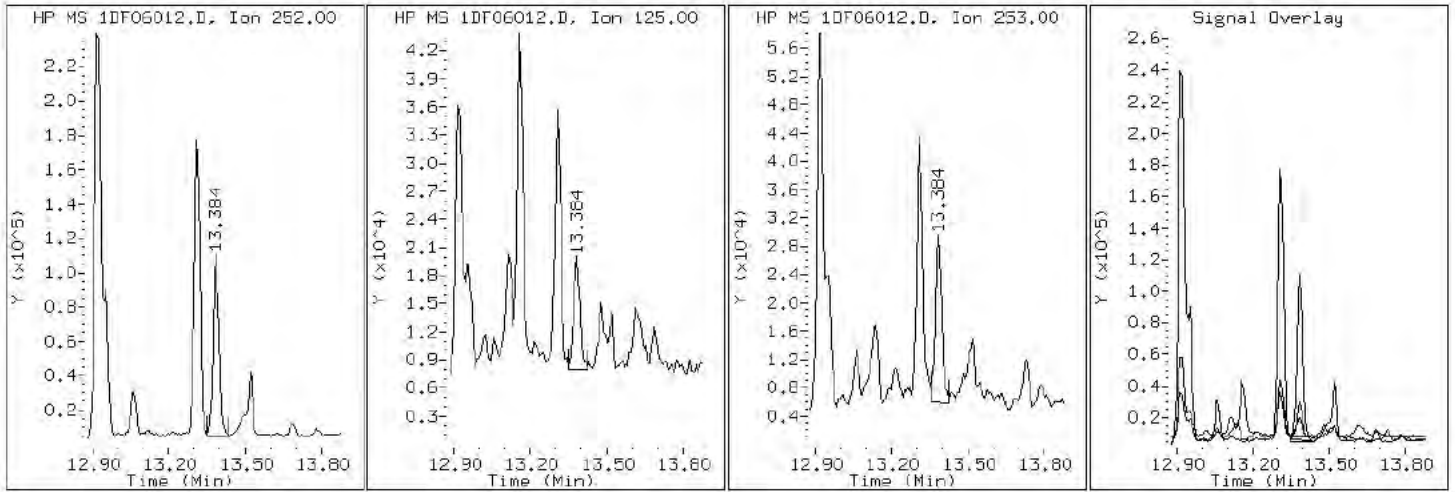
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

23 Benzo(a)pyrene





Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

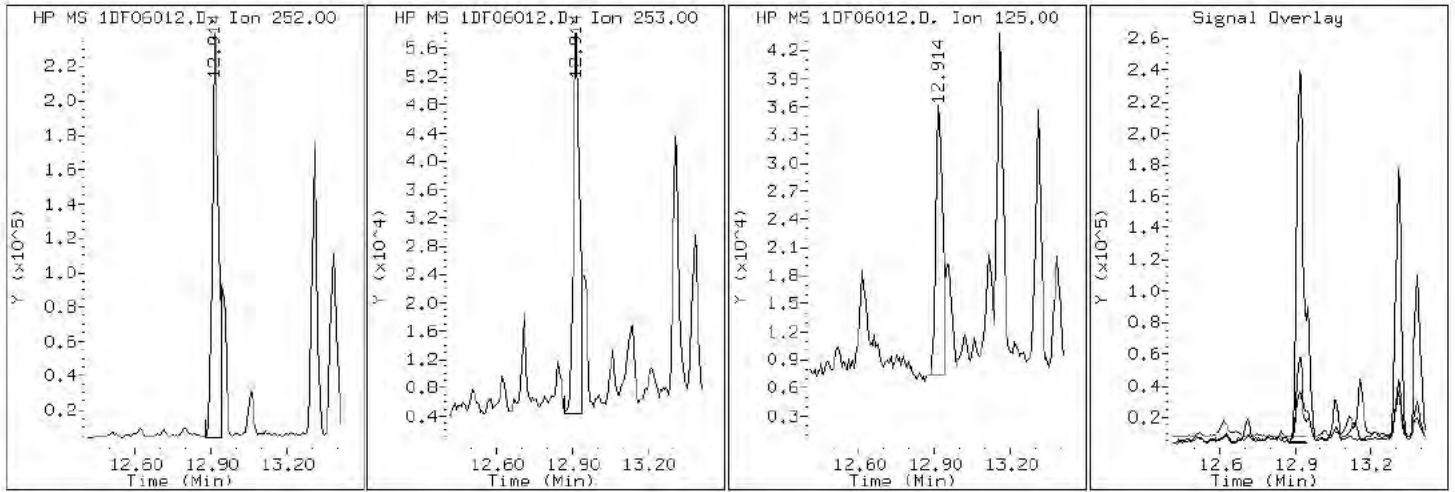
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

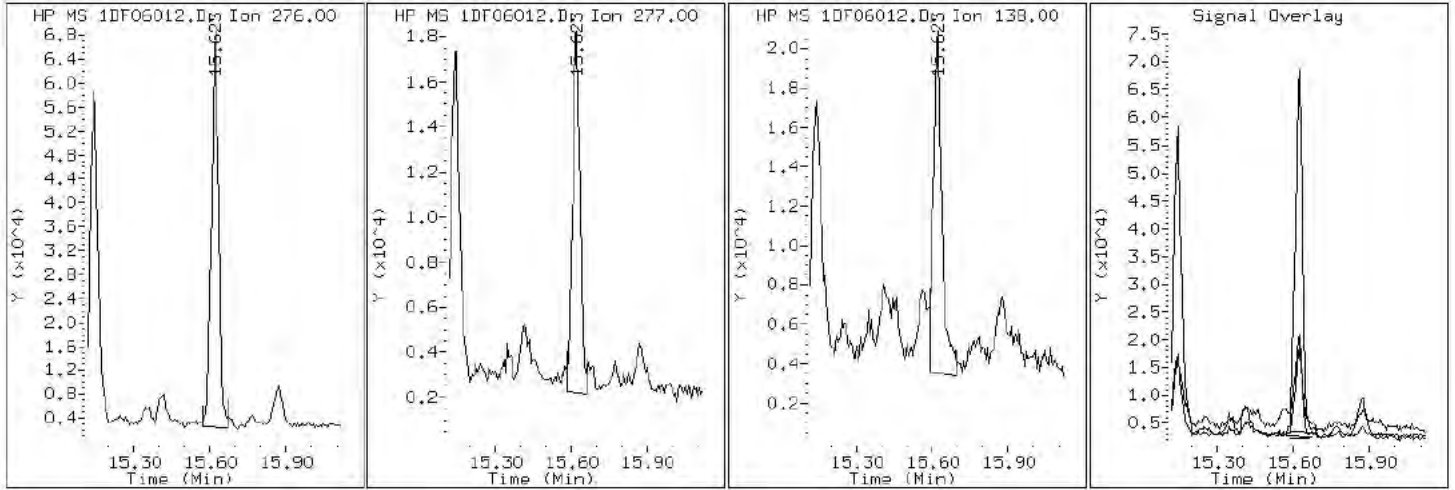
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

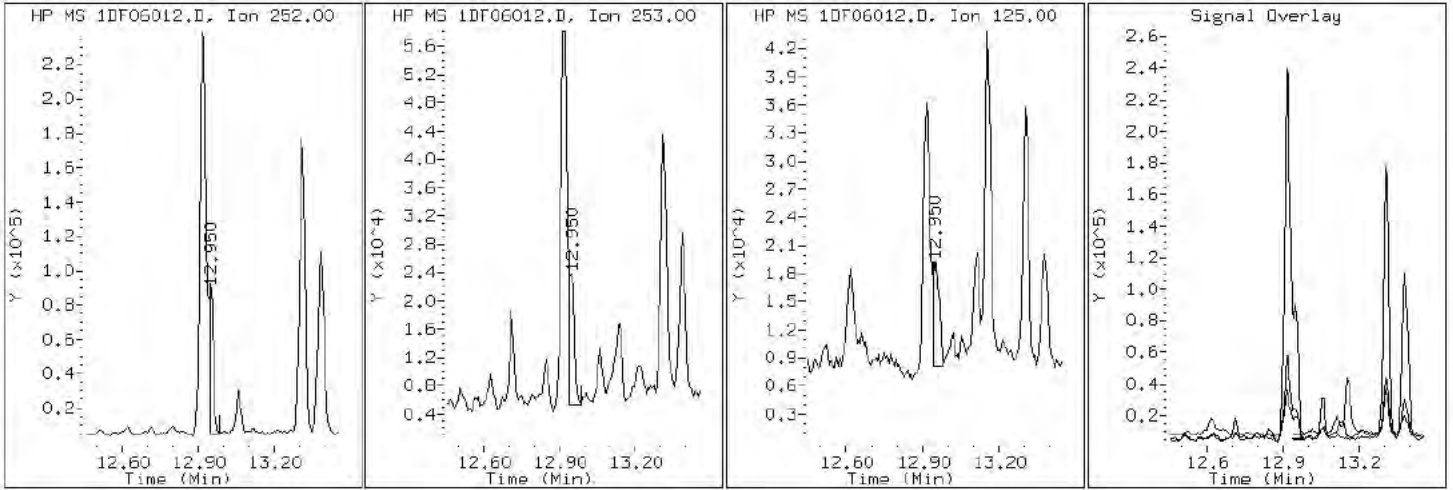
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

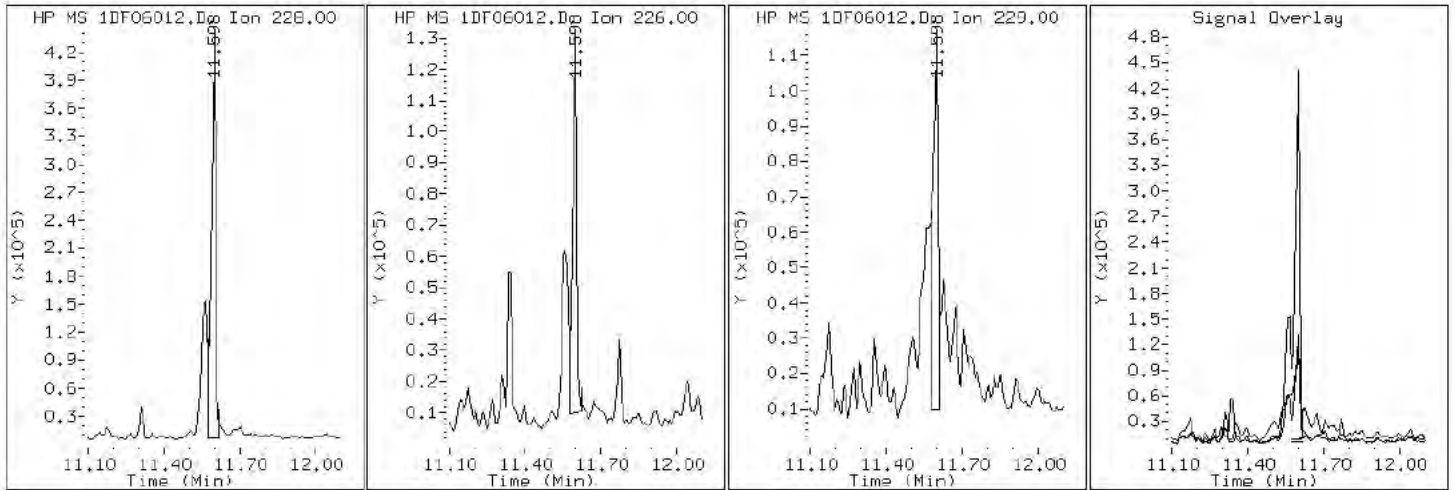
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

20 Chrysene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

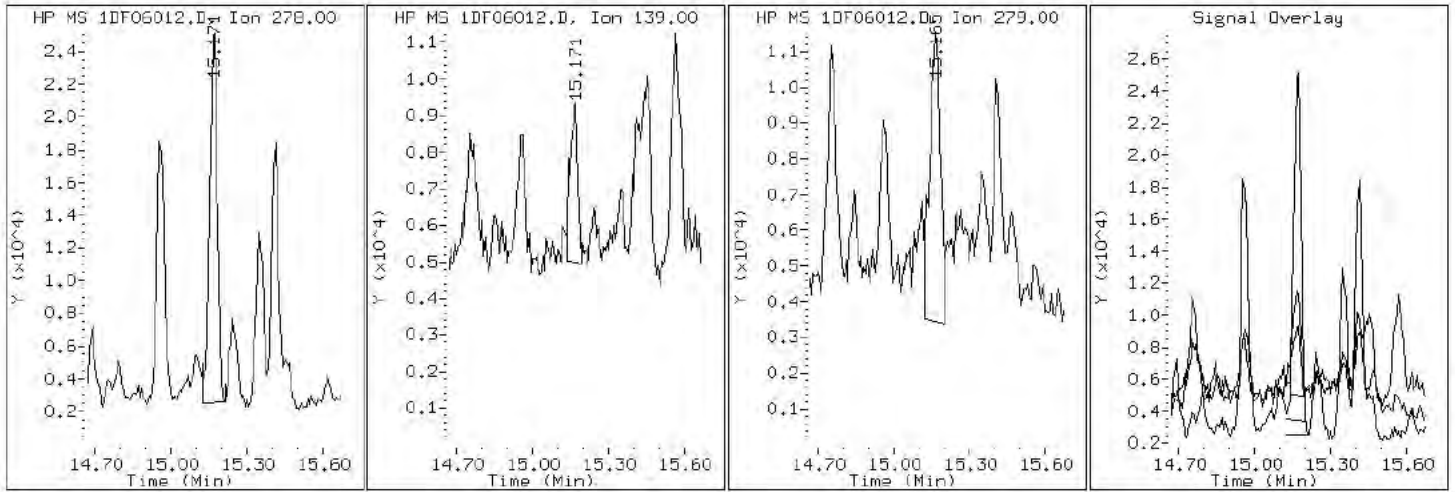
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

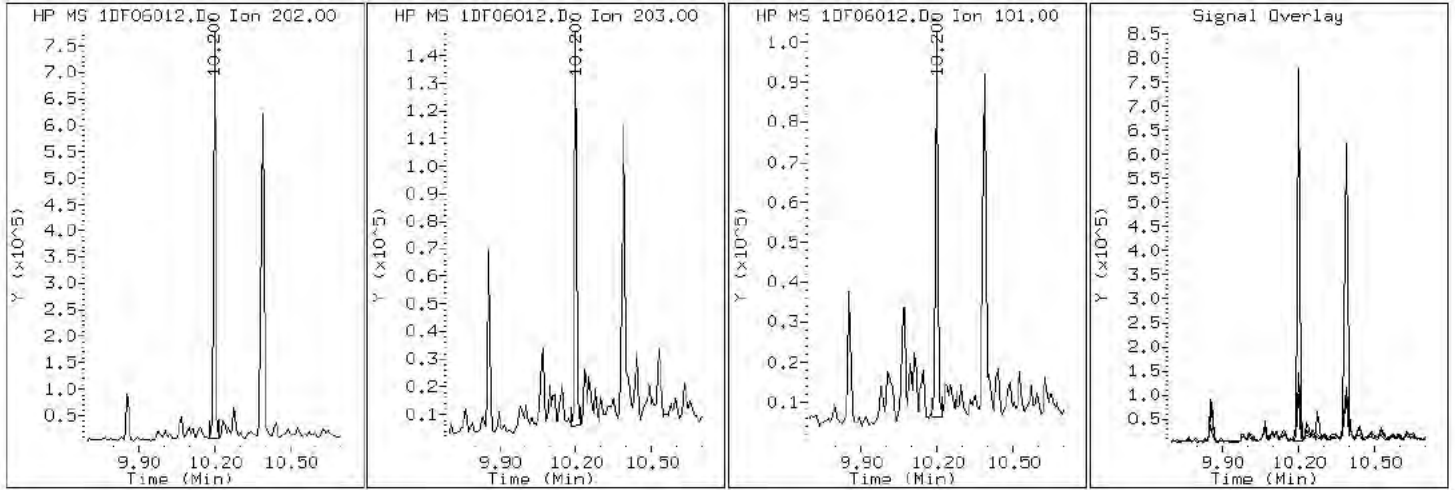
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

16 Fluoranthene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

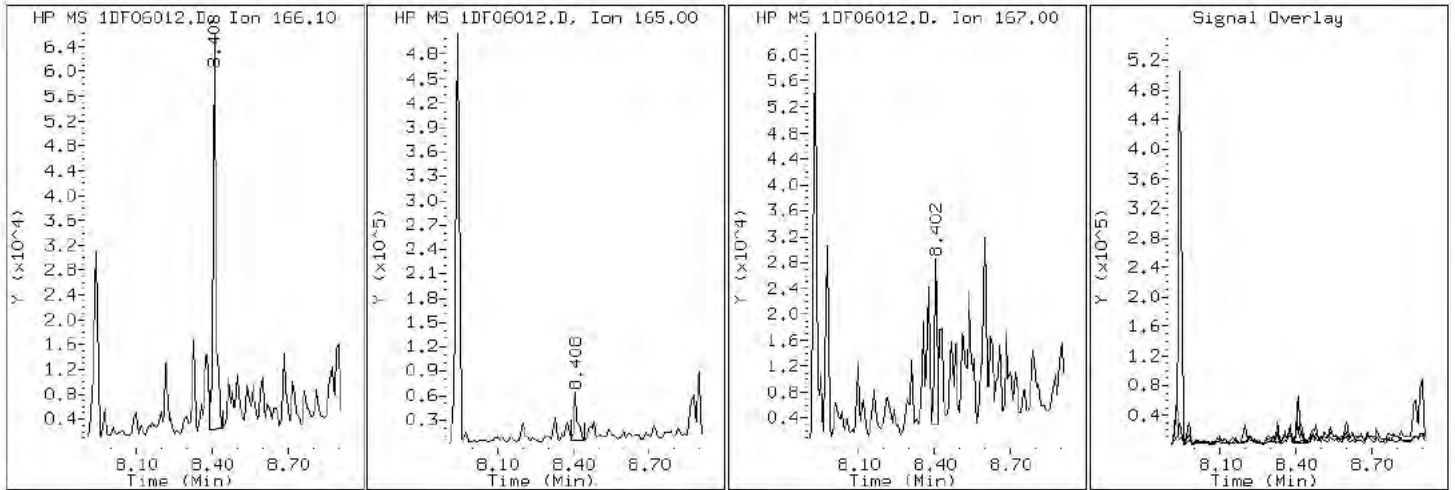
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

10 Fluorene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

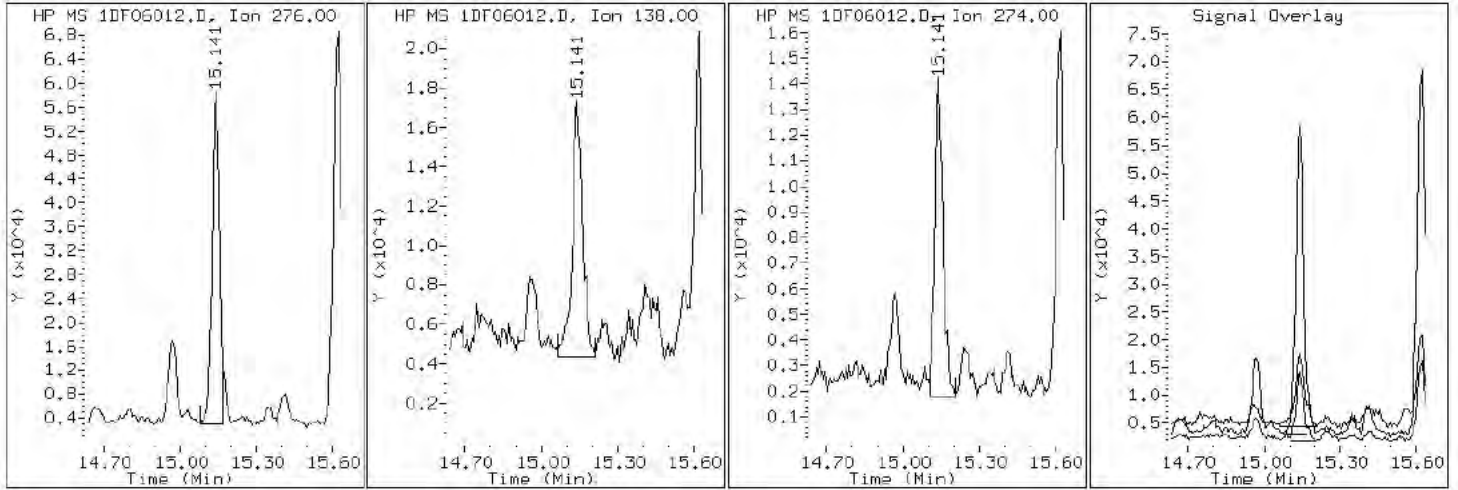
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

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





Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

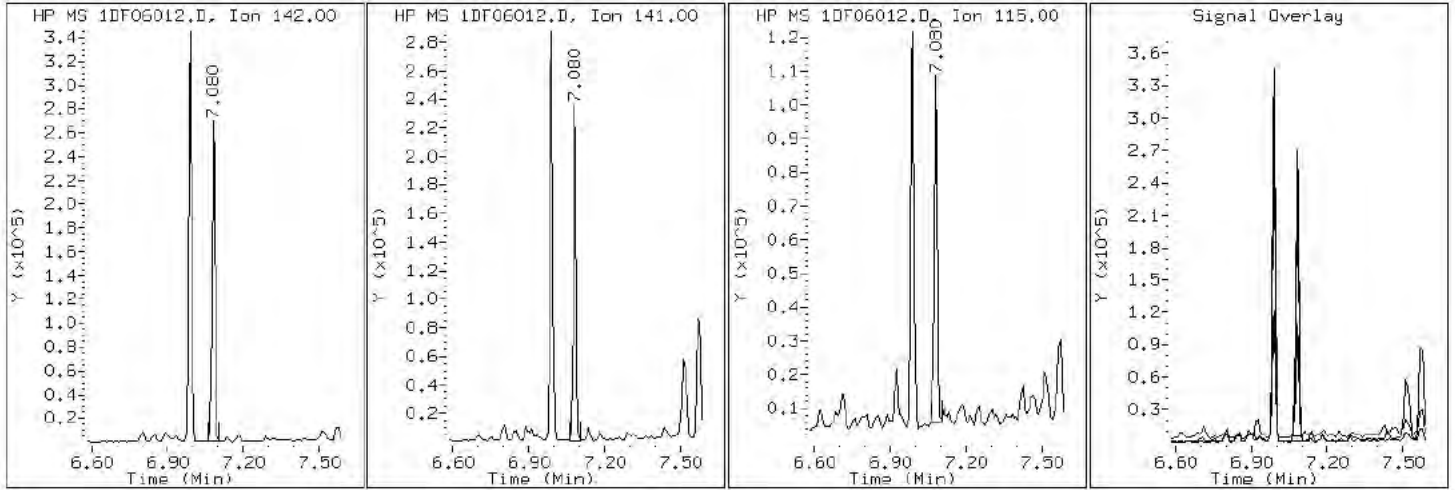
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

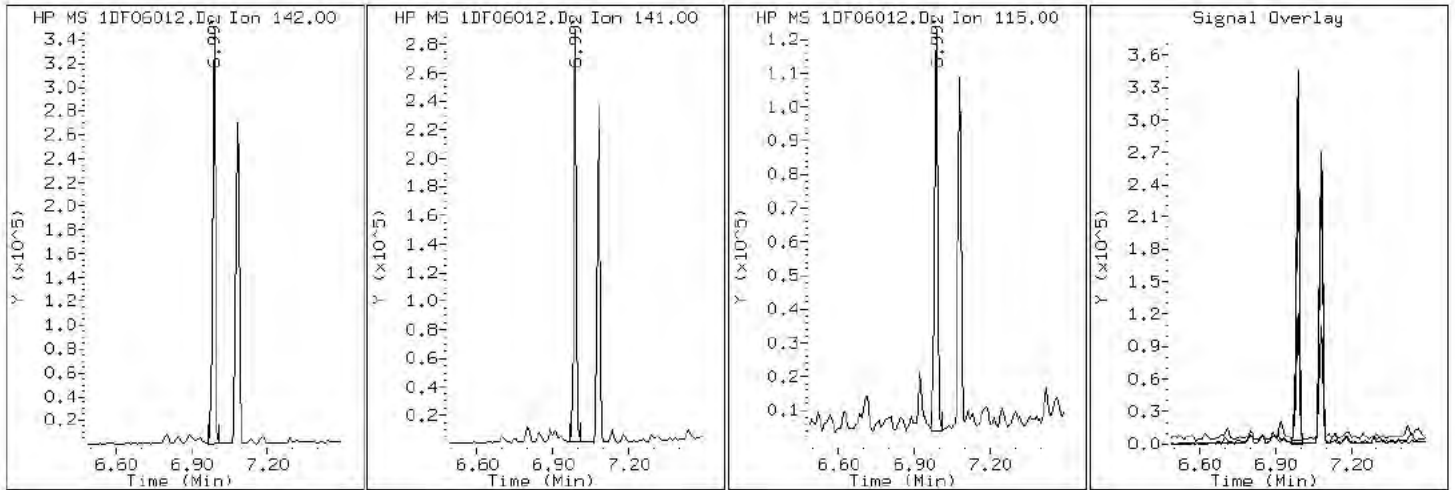
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

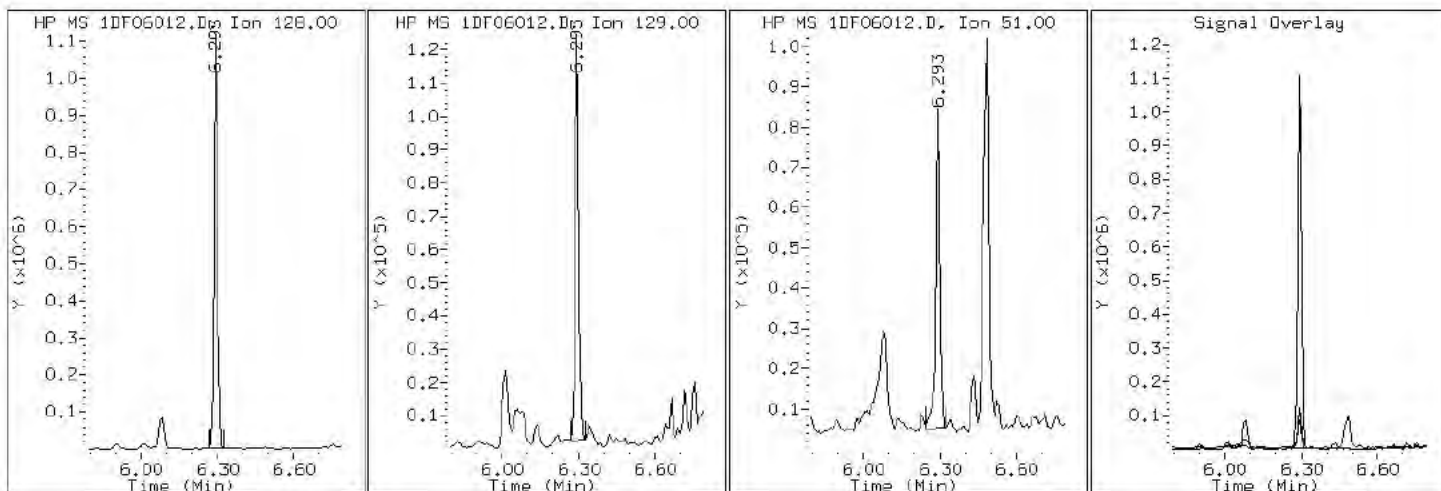
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

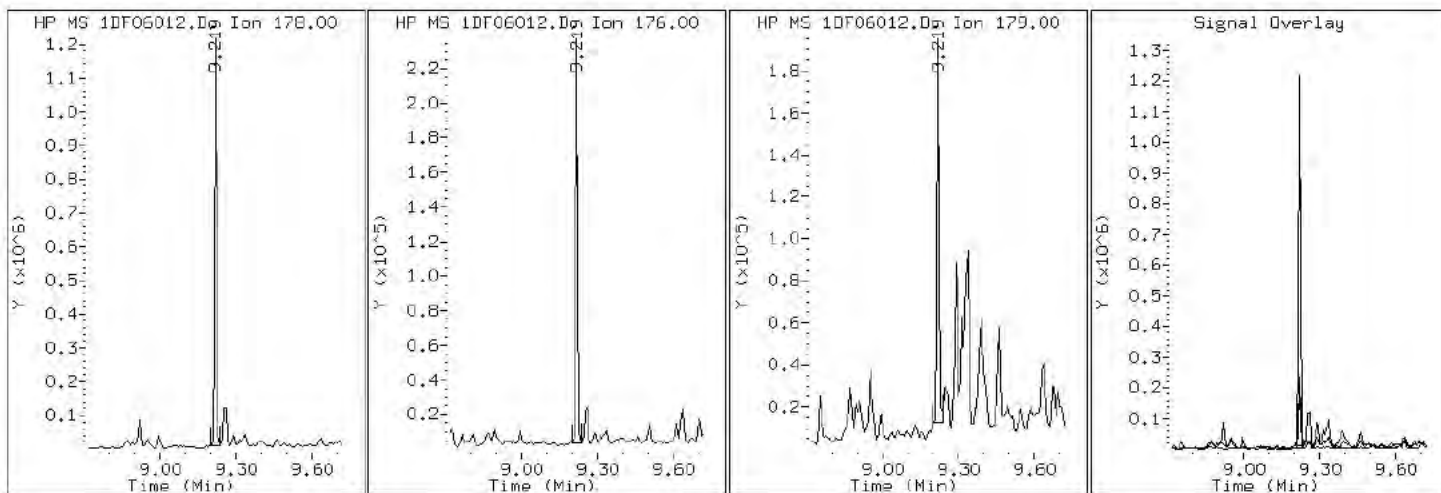
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

12 Phenanthrene



Data File: 1DF06012.D

Date: 06-JUN-2013 15:58

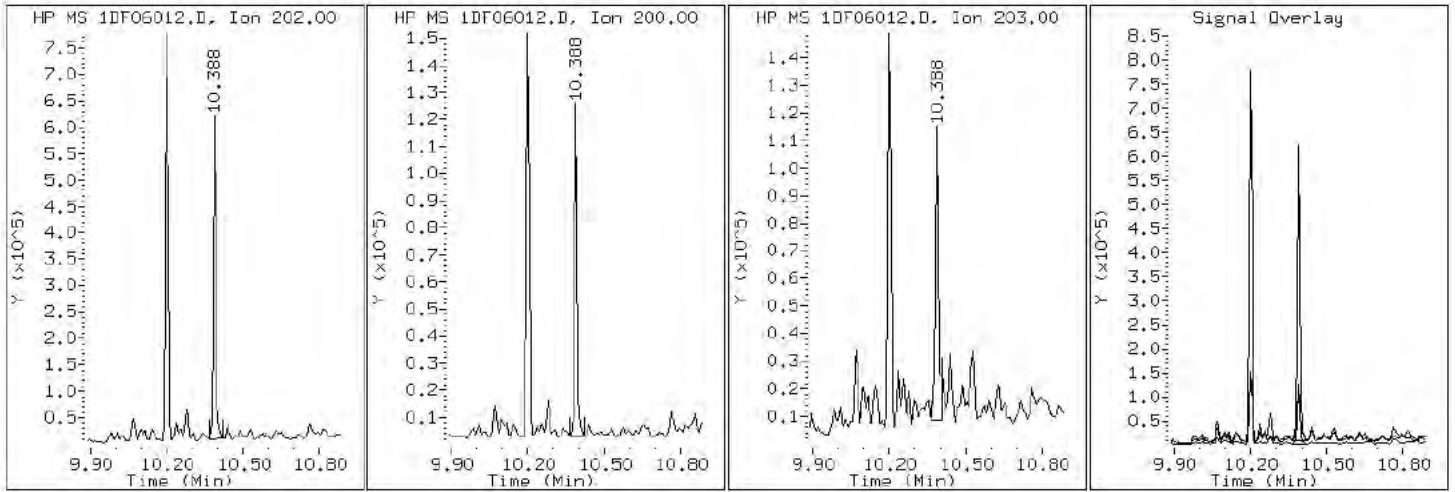
Client ID: CV0650A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-3-a

Operator: SCC

17 Pyrene

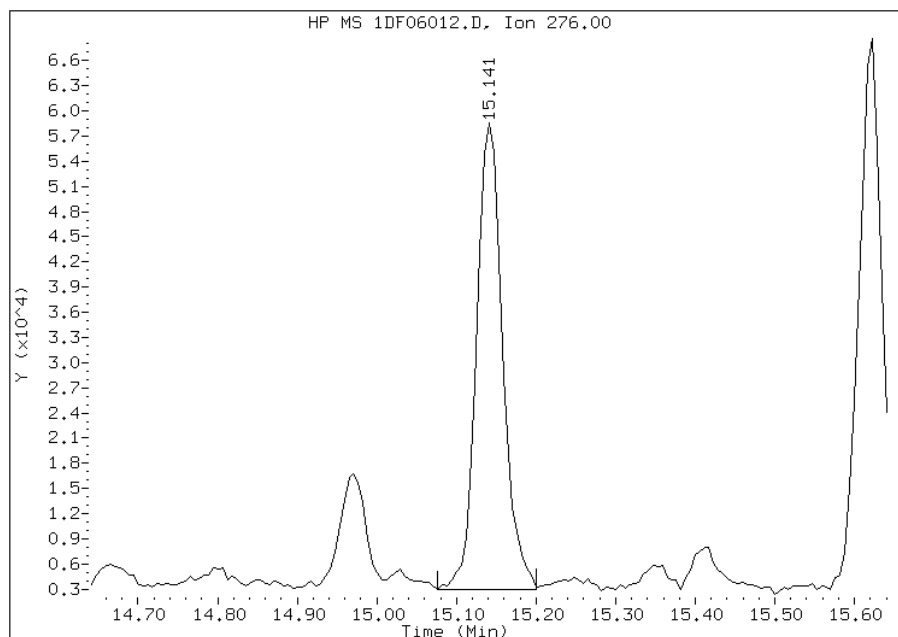


# Manual Integration Report

Data File: 1DF06012.D  
Inj. Date and Time: 06-JUN-2013 15:58  
Instrument ID: BSMSD.i  
Client ID: CV0650A-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/07/2013

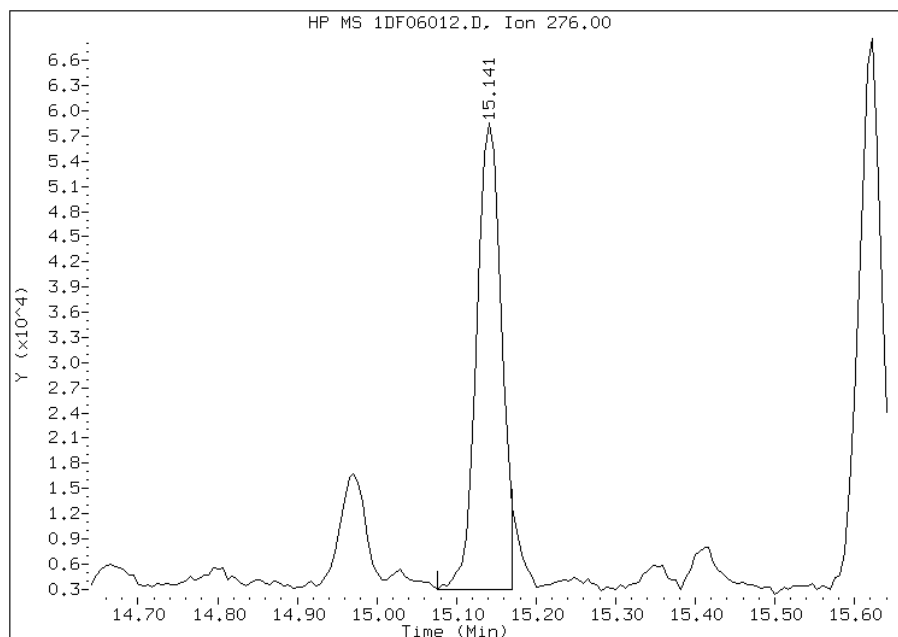
## Processing Integration Results

RT: 15.14  
Response: 125574  
Amount: 1  
Conc: 292



## Manual Integration Results

RT: 15.14  
Response: 120120  
Amount: 1  
Conc: 70



Manually Integrated By: cantins  
Modification Date: 07-Jun-2013 17:04  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0650A-CSD Lab Sample ID: 680-90852-4  
 Matrix: Solid Lab File ID: 1DF06013.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:20  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.93(g) Date Analyzed: 06/06/2013 16:21  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 14.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138163 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	250		47	5.9
120-12-7	Anthracene	100		9.9	4.9
56-55-3	Benzo[a]anthracene	230		9.4	4.6
50-32-8	Benzo[a]pyrene	210		12	6.1
205-99-2	Benzo[b]fluoranthene	470		14	7.2
191-24-2	Benzo[g,h,i]perylene	150		24	5.2
207-08-9	Benzo[k]fluoranthene	110		9.4	4.2
218-01-9	Chrysene	460		11	5.3
53-70-3	Dibenz(a,h)anthracene	55		24	4.8
206-44-0	Fluoranthene	500		24	4.7
86-73-7	Fluorene	72		24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.4
90-12-0	1-Methylnaphthalene	310		47	5.2
91-57-6	2-Methylnaphthalene	400		47	8.4
91-20-3	Naphthalene	900		47	5.2
85-01-8	Phenanthrene	650		9.4	4.6
129-00-0	Pyrene	380		24	4.4

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06013.D  
 Lab Smp Id: 680-90852-A-4-A Client Smp ID: CV0650A-CSD  
 Inj Date : 06-JUN-2013 16:21  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-4-a  
 Misc Info : 680-90852-A-4-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dFASTPAHi.m  
 Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	14.685	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.275	6.274	(1.000)	4699841	40.0000	
* 7 Acenaphthene-d10	164		7.944	7.943	(1.000)	2748472	40.0000	
* 11 Phenanthrene-d10	188		9.207	9.200	(1.000)	4627688	40.0000	
\$ 15 o-Terphenyl	230		9.506	9.506	(1.033)	364104	5.37051	420
* 19 Chrysene-d12	240		11.580	11.568	(1.000)	4975643	40.0000	
* 24 Perylene-d12	264		13.508	13.478	(1.000)	4673854	40.0000	
2 Naphthalene	128		6.293	6.292	(1.003)	1335458	11.5225	900
3 2-Methylnaphthalene	142		6.992	6.991	(1.114)	374960	5.08106	400
4 1-Methylnaphthalene	142		7.086	7.085	(1.129)	299087	3.93680	310
5 1,1'-Biphenyl	154		7.426	7.426	(0.935)	155237	1.67176	130
6 Acenaphthylene	152		7.814	7.814	(0.984)	362136	3.17787	250
8 Acenaphthene	154		7.967	7.967	(1.003)	20718	0.28659	22(Q)
9 Dibenzofuran	168		8.114	8.113	(1.021)	140572	1.41027	110
10 Fluorene	166		8.408	8.407	(1.058)	74538	0.91130	72



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
12 Phenanthrene	178	9.219	9.218	(1.001)	1037246	8.27592	650
13 Anthracene	178	9.260	9.259	(1.006)	155005	1.27463	100
16 Fluoranthene	202	10.206	10.199	(1.108)	809709	6.31498	500
17 Pyrene	202	10.394	10.387	(0.898)	703523	4.82940	380
18 Benzo(a)anthracene	228	11.563	11.545	(0.998)	437209	2.96079	230
20 Chrysene	228	11.604	11.598	(1.002)	776331	5.83836	460
21 Benzo(b)fluoranthene	252	12.932	12.914	(0.957)	699243	5.97182	470
22 Benzo(k)fluoranthene	252	12.961	12.955	(0.960)	164586	1.34228	100
23 Benzo(a)pyrene	252	13.396	13.378	(0.992)	293259	2.62833	210
25 Indeno(1,2,3-cd)pyrene	276	15.164	15.135	(1.123)	182565	1.65079	130(M)
26 Dibenzo(a,h)anthracene	278	15.194	15.170	(1.125)	70559	0.70363	55
27 Benzo(g,h,i)perylene	276	15.652	15.616	(1.159)	201125	1.89515	150

QC Flag Legend

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

Data File: 1DF06013.D

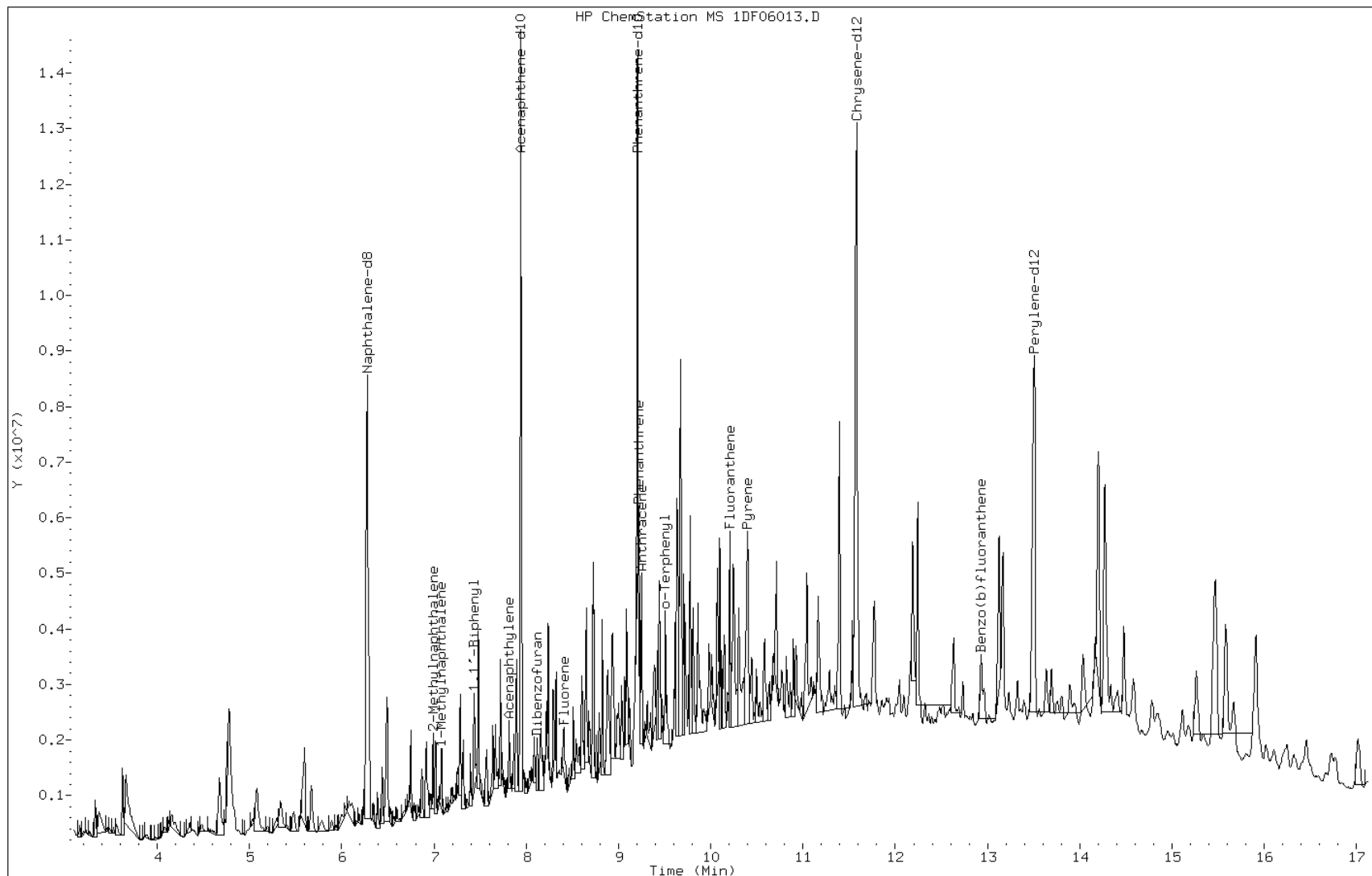
Date: 06-JUN-2013 16:21

Client ID: CV0650A-CSD

Instrument: BSMDS.i

Sample Info: 680-90852-a-4-a

Operator: SCC



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

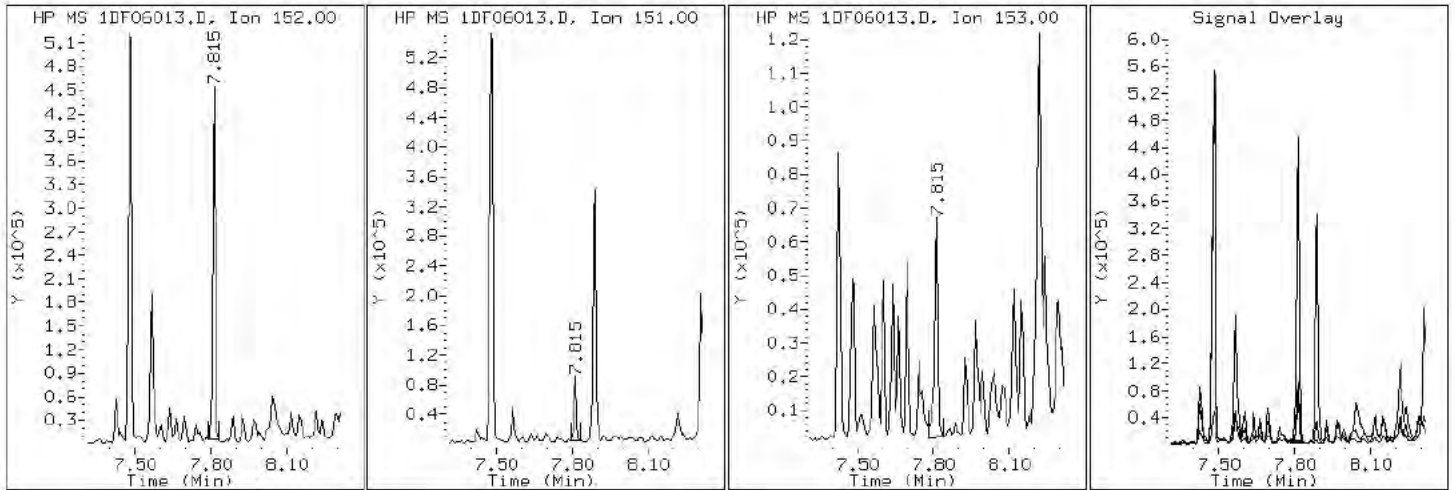
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

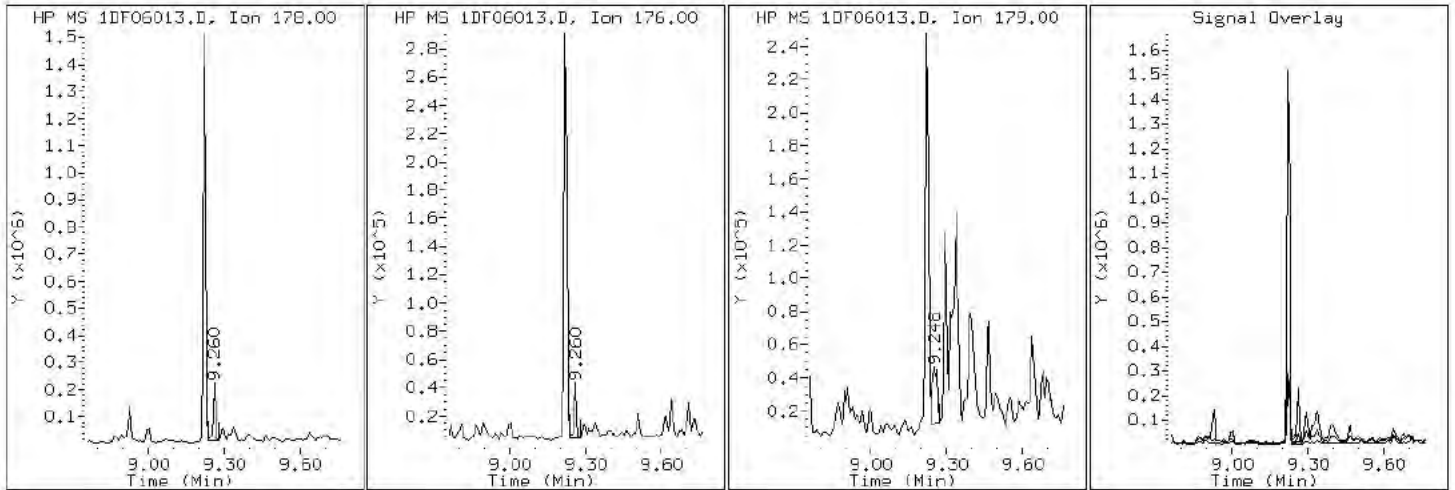
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

13 Anthracene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

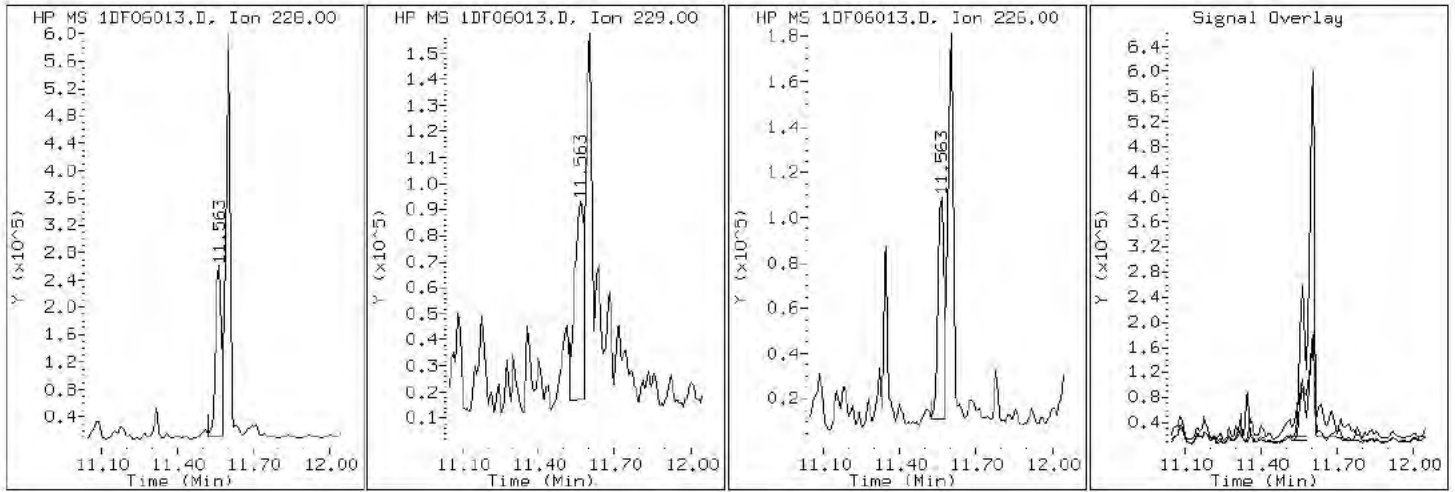
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

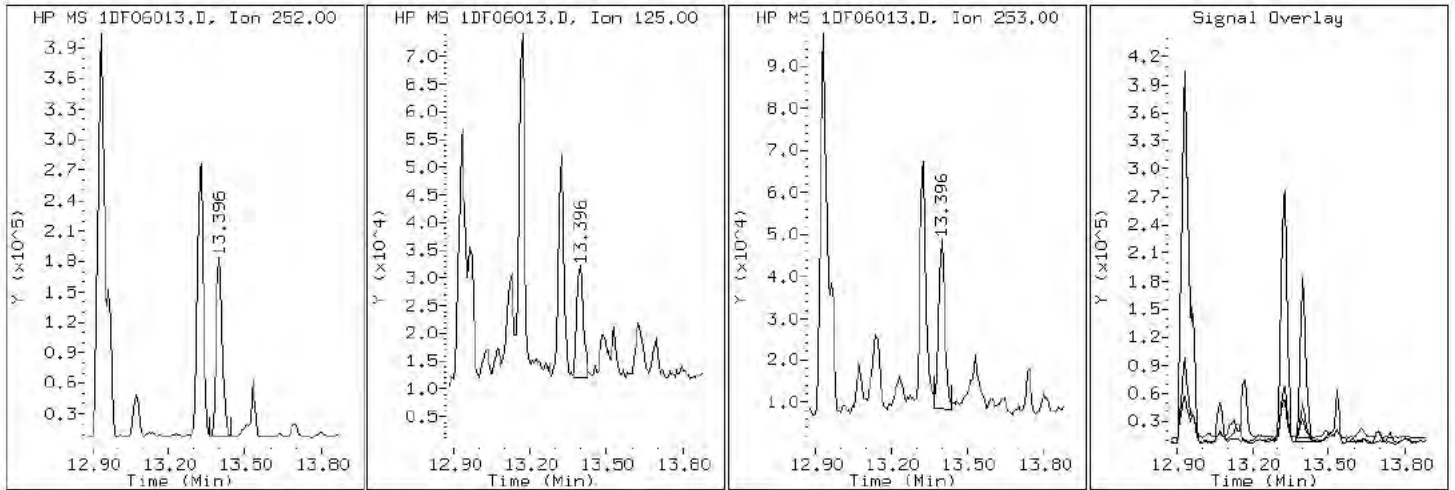
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

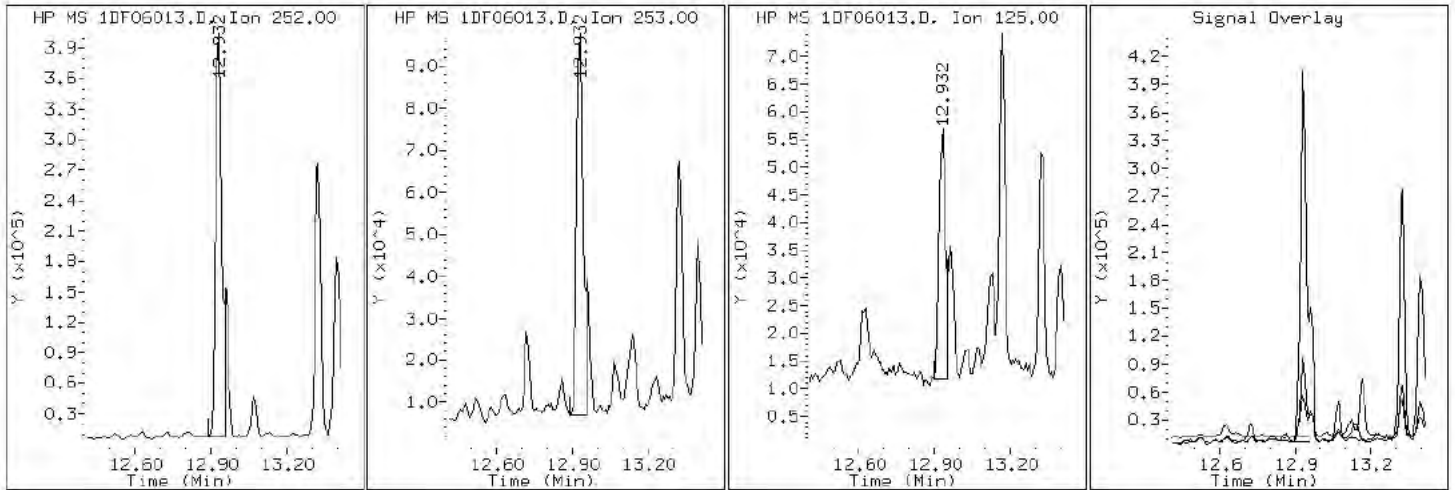
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

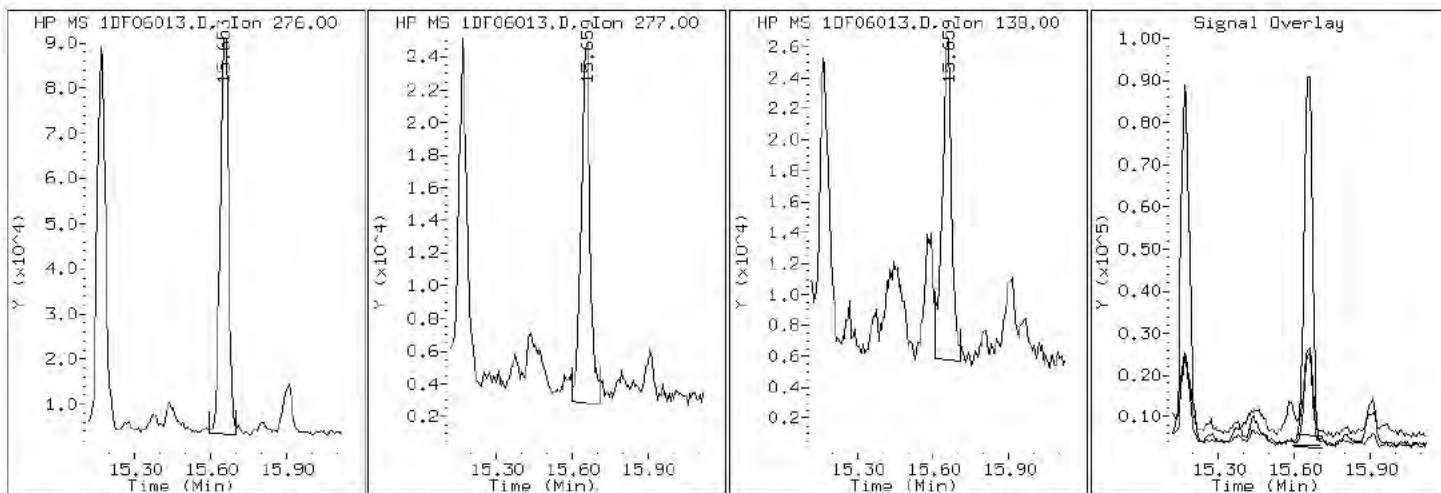
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

27 Benzo(g,h,i)perylene





Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

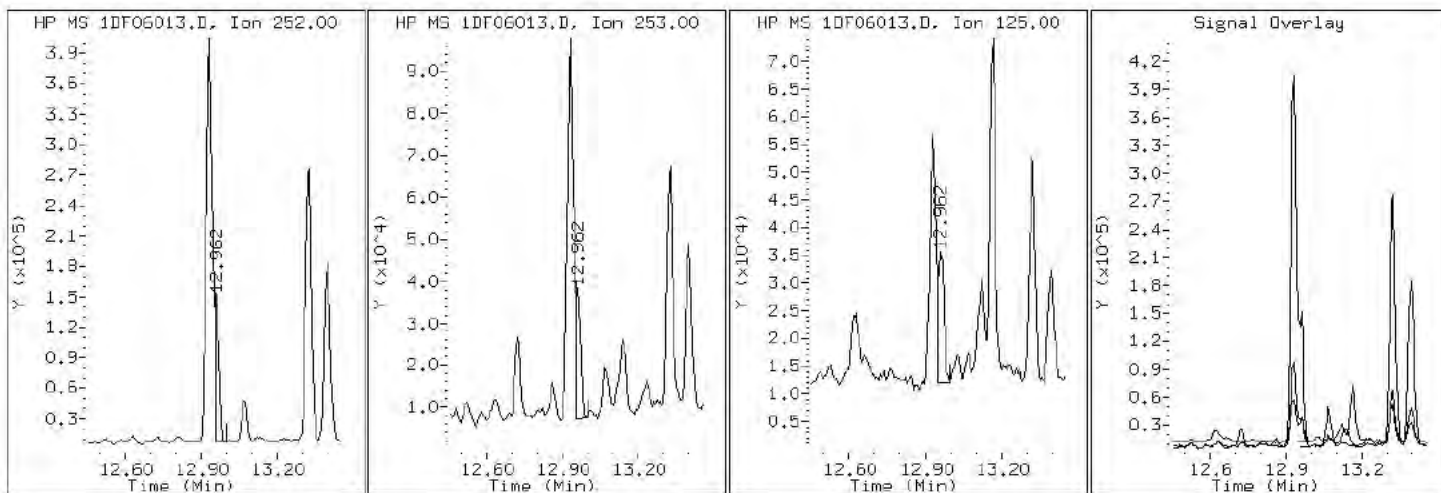
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

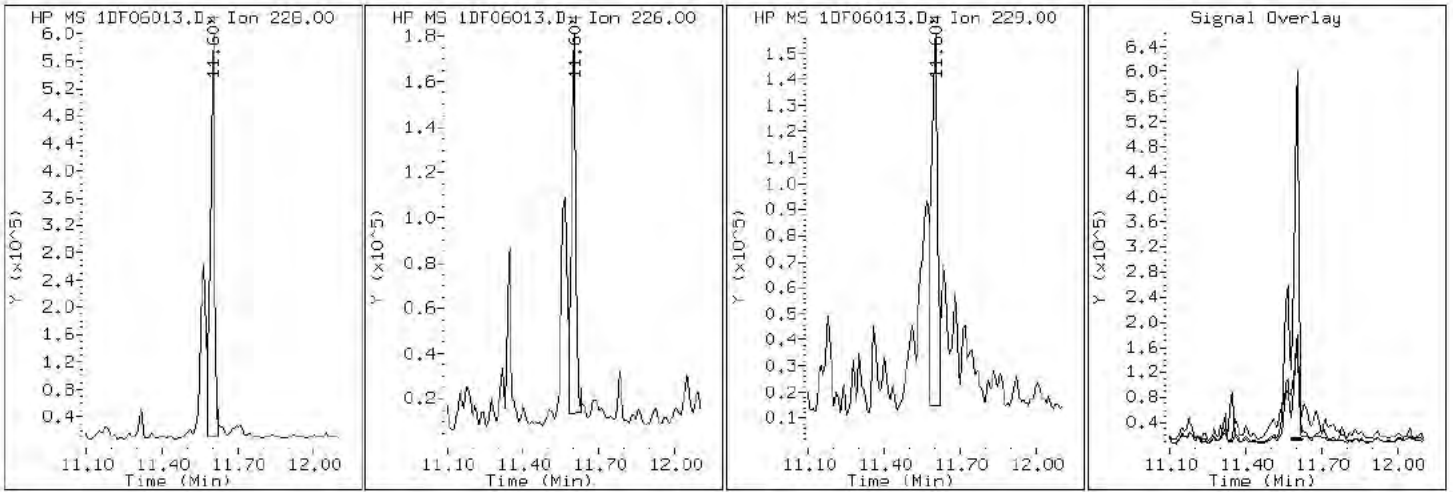
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

20 Chrysene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

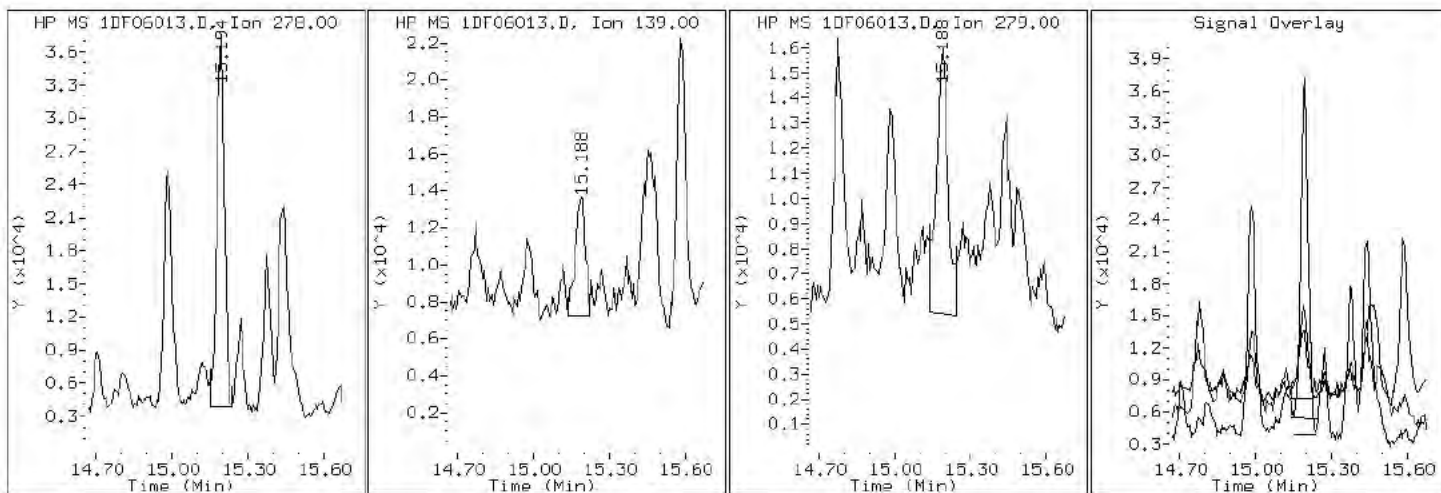
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

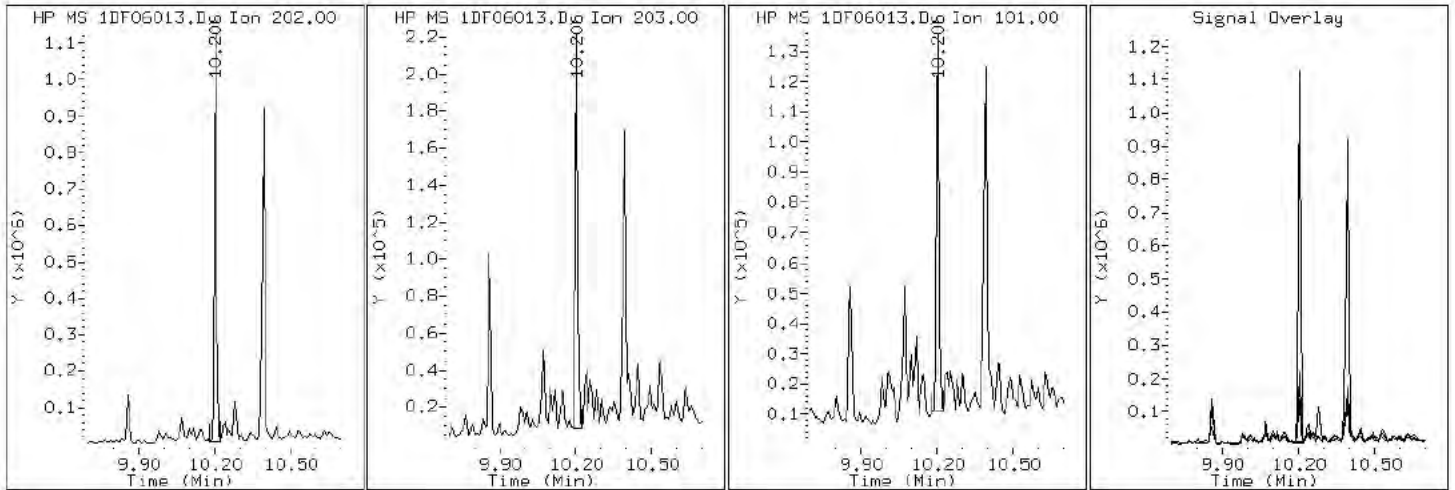
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

16 Fluoranthene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

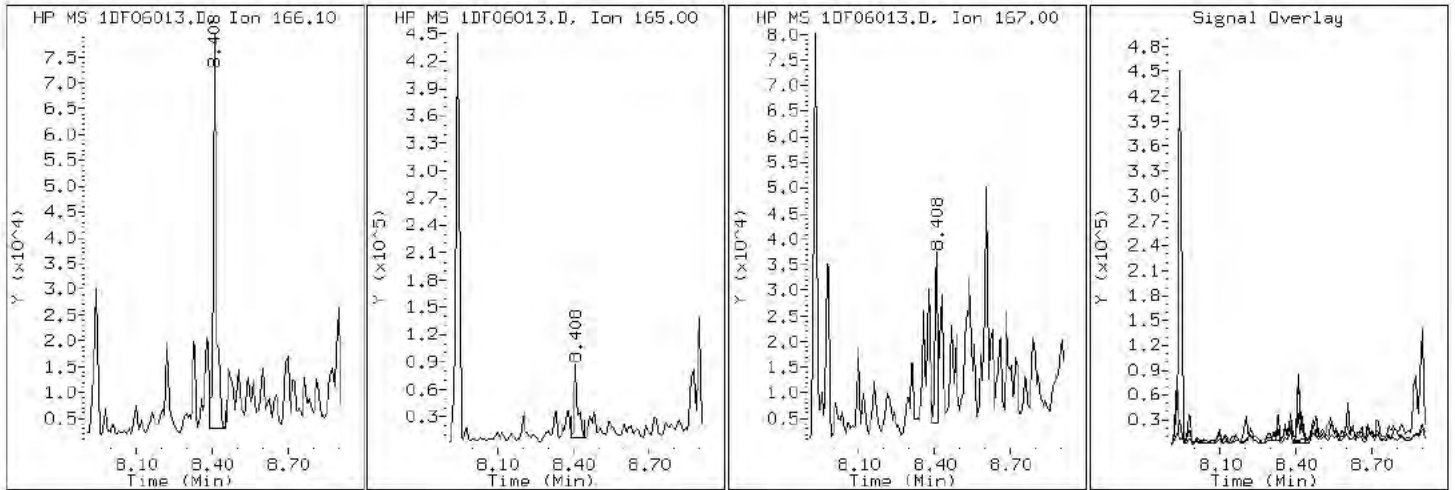
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

10 Fluorene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

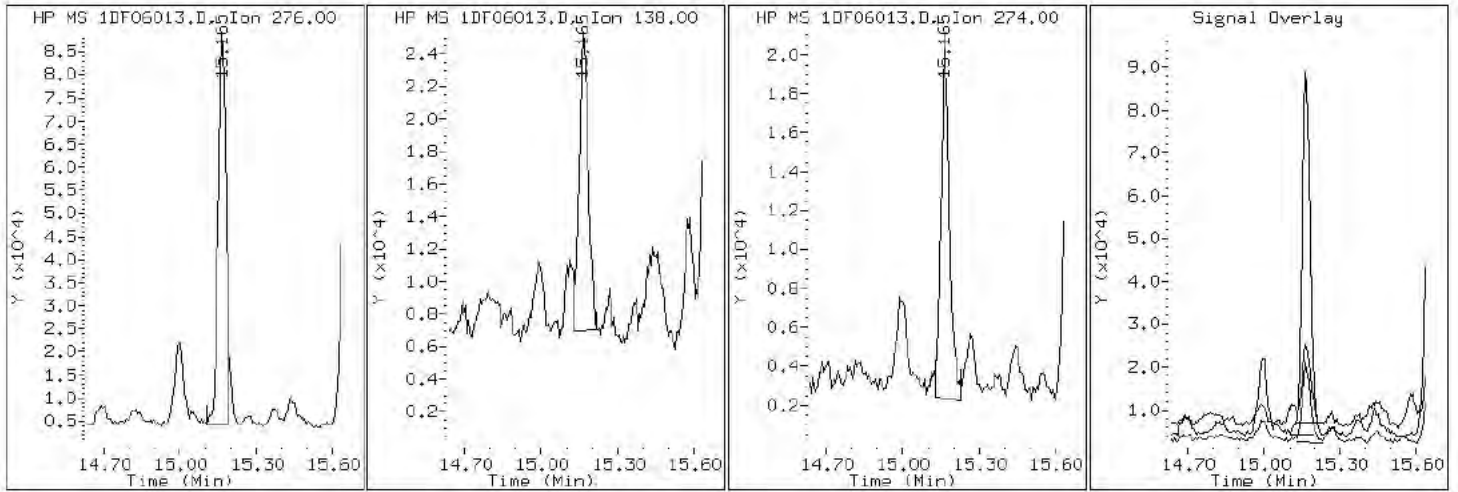
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

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



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

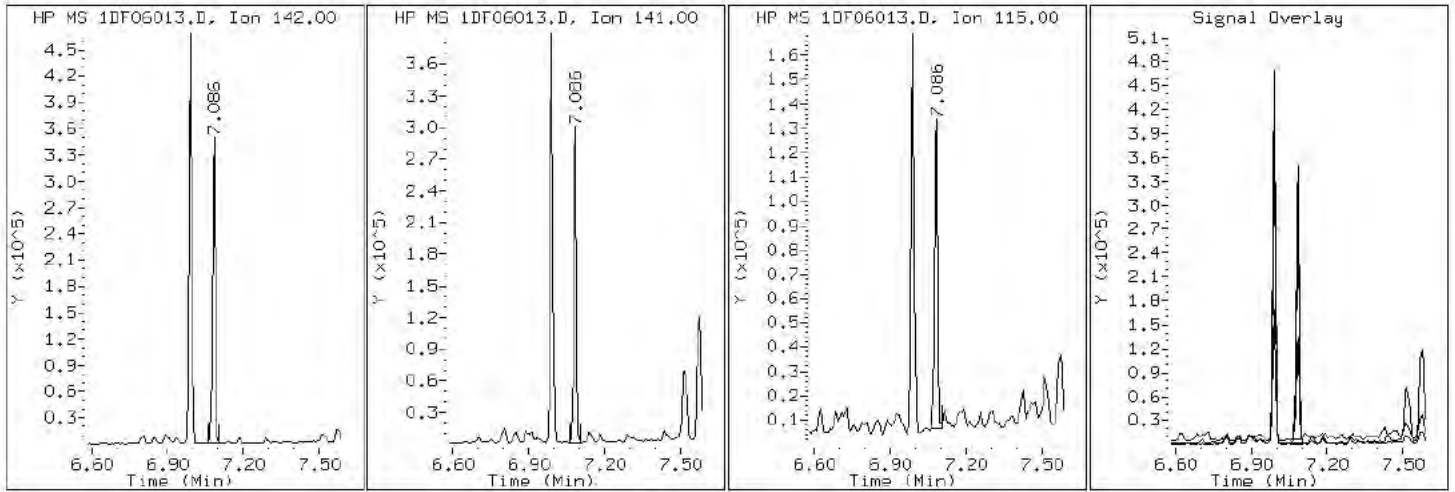
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

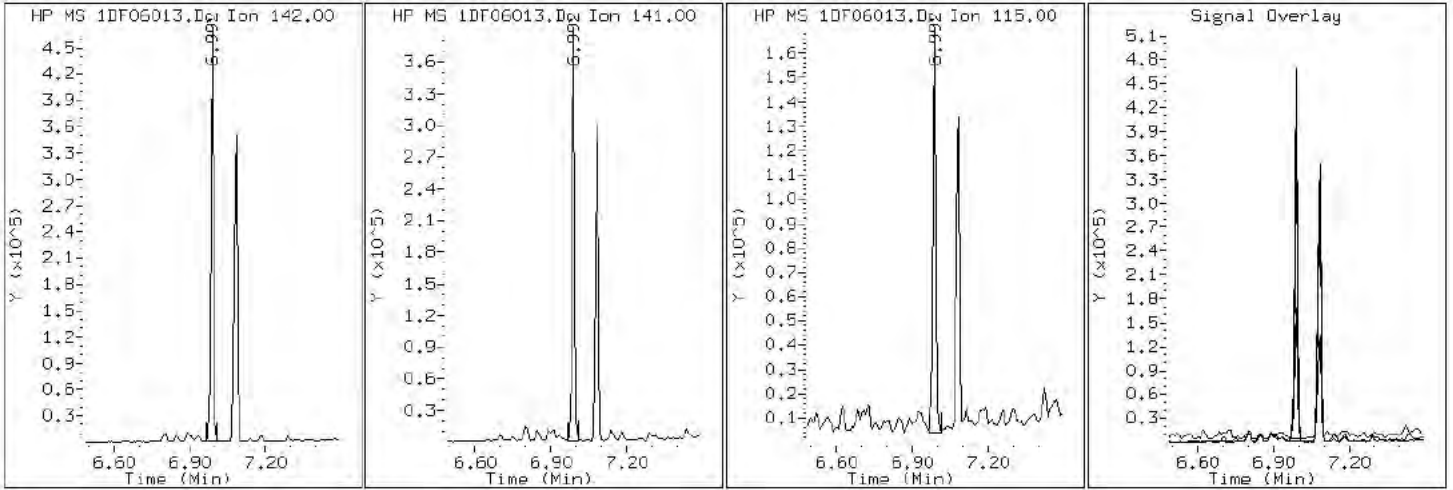
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

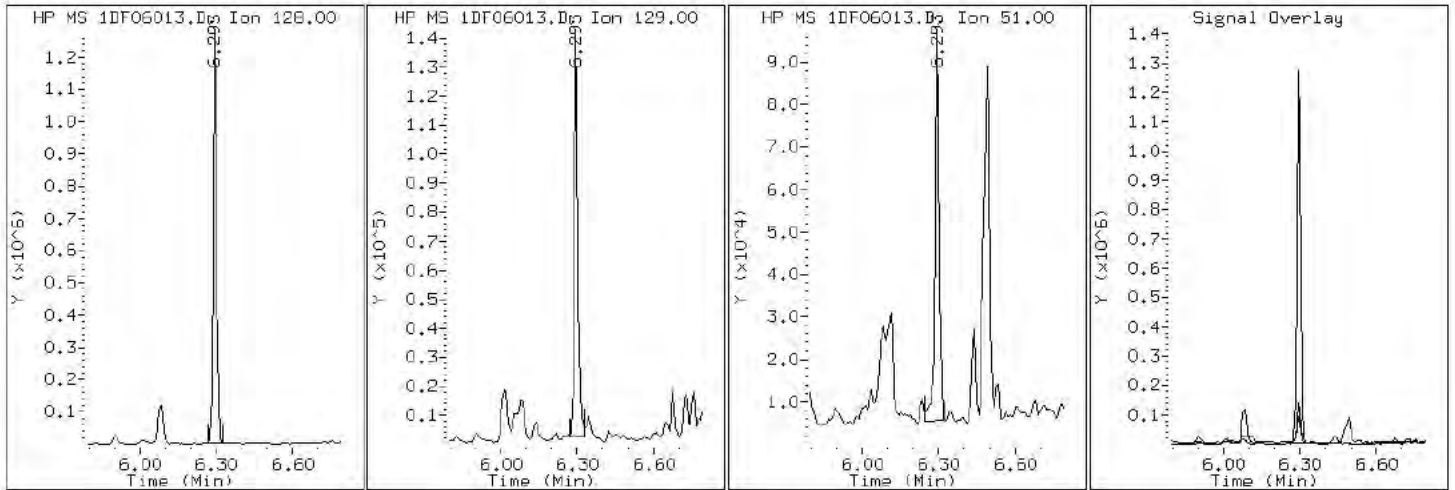
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

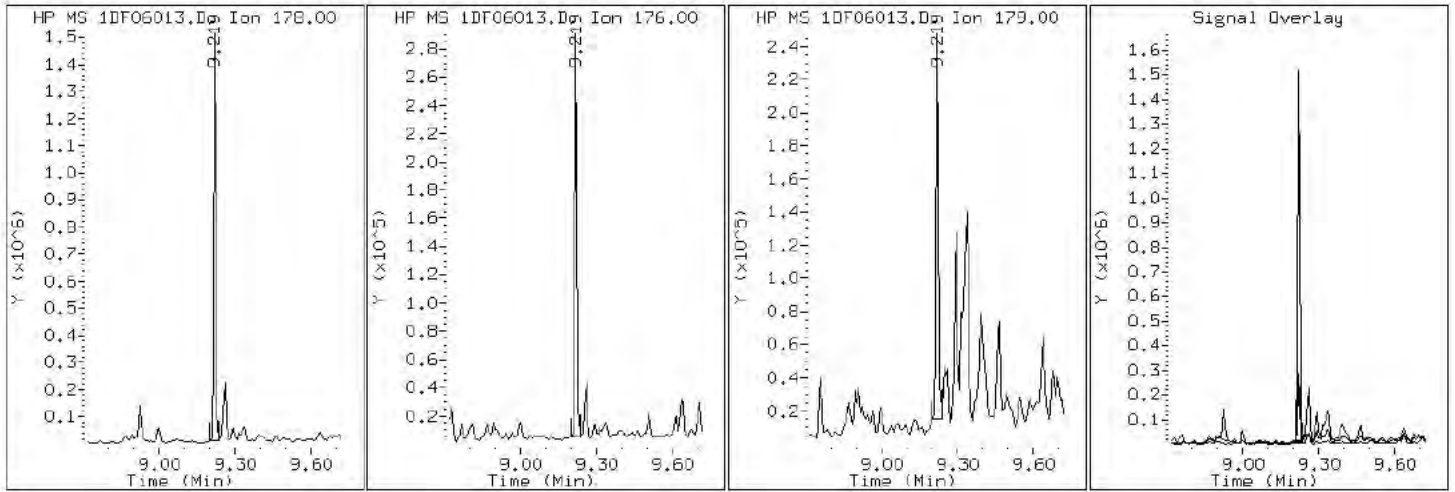
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

12 Phenanthrene



Data File: 1DF06013.D

Date: 06-JUN-2013 16:21

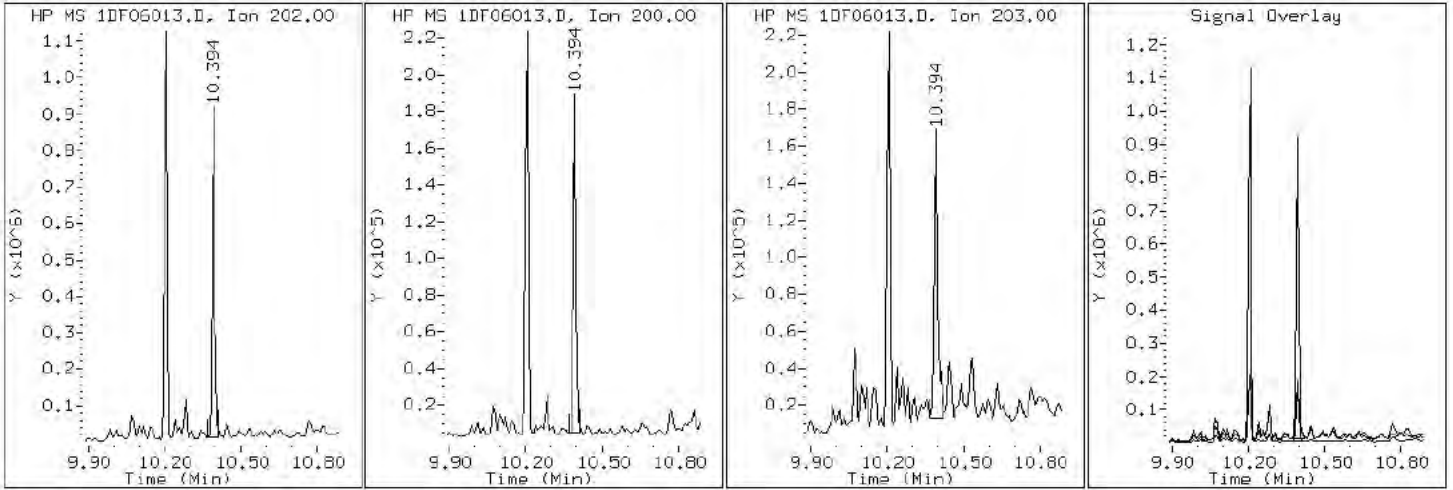
Client ID: CV0650A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-4-a

Operator: SCC

17 Pyrene

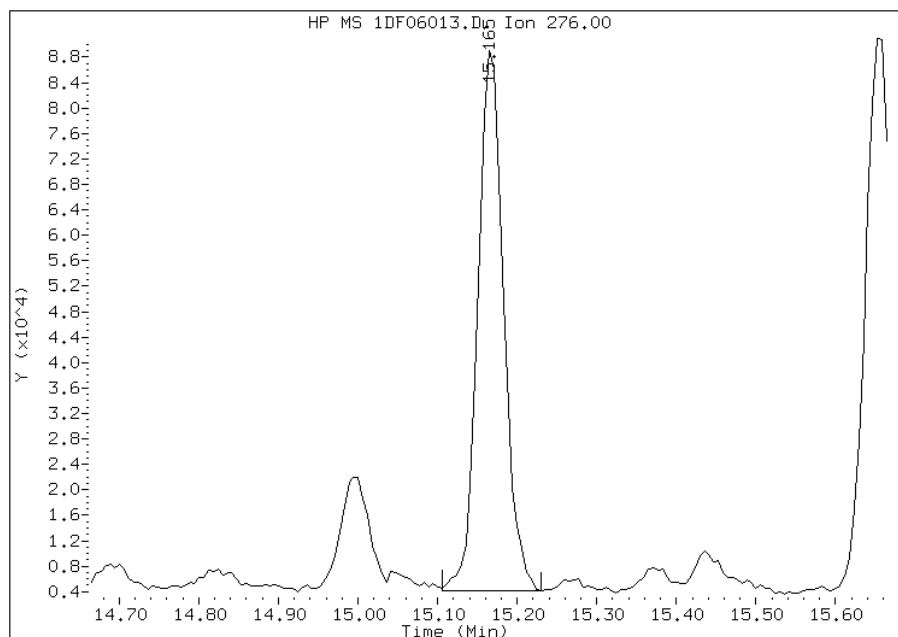


# Manual Integration Report

Data File: 1DF06013.D  
Inj. Date and Time: 06-JUN-2013 16:21  
Instrument ID: BSMSD.i  
Client ID: CV0650A-CSD  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/07/2013

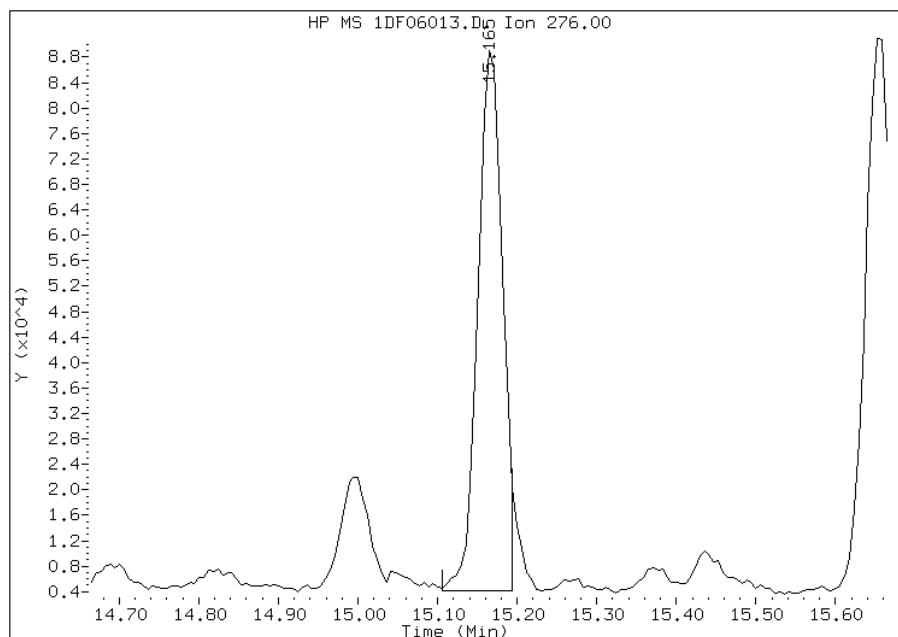
## Processing Integration Results

RT: 15.16  
Response: 190181  
Amount: 2  
Conc: 135



## Manual Integration Results

RT: 15.16  
Response: 182565  
Amount: 2  
Conc: 130



Manually Integrated By: cantins  
Modification Date: 07-Jun-2013 17:05  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0650B-CS Lab Sample ID: 680-90852-5  
 Matrix: Solid Lab File ID: 1DF05029.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:30  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.17(g) Date Analyzed: 06/05/2013 21:41  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	58	J	120	24
208-96-8	Acenaphthylene	460		49	6.1
120-12-7	Anthracene	250		10	5.1
56-55-3	Benzo[a]anthracene	700		9.7	4.7
50-32-8	Benzo[a]pyrene	850		13	6.3
205-99-2	Benzo[b]fluoranthene	1800		15	7.4
191-24-2	Benzo[g,h,i]perylene	580		24	5.4
207-08-9	Benzo[k]fluoranthene	450		9.7	4.4
218-01-9	Chrysene	1300		11	5.5
53-70-3	Dibenz(a,h)anthracene	190		24	5.0
206-44-0	Fluoranthene	2000		24	4.9
86-73-7	Fluorene	120		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	550		24	8.6
90-12-0	1-Methylnaphthalene	420		49	5.4
91-57-6	2-Methylnaphthalene	540		49	8.6
91-20-3	Naphthalene	2600		49	5.4
85-01-8	Phenanthrene	1800		9.7	4.7
129-00-0	Pyrene	1400		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05029.D  
 Lab Smp Id: 680-90852-A-5-A Client Smp ID: CV0650B-CS  
 Inj Date : 05-JUN-2013 21:41  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-5-a  
 Misc Info : 680-90852-A-5-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 29  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	18.694	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	REL RT	RESPONSE	RT
	MASS		( ug/l)	(ug/Kg)			
* 1 Naphthalene-d8	136		40.0000		6.265	3252504	6.273
* 7 Acenaphthene-d10	164		40.0000		7.934	1756194	7.941
* 11 Phenanthrene-d10	188		40.0000		9.191	2738745	9.199
\$ 15 o-Terphenyl	230		6.86623	560	9.503	275496	9.510
* 19 Chrysene-d12	240		40.0000		11.553	2961767	11.572
* 24 Perylene-d12	264		40.0000		13.457	2761546	13.494
2 Naphthalene	128		31.7022	2600	6.289	2542781	6.296
3 2-Methylnaphthalene	142		6.70488	540	6.988	342418	6.990
4 1-Methylnaphthalene	142		5.22950	420	7.076	274947	7.084
5 1,1'-Biphenyl	154		4.84662	390	7.423	287569	7.424
6 Acenaphthylene	152		5.65101	460	7.811	411475	7.812
8 Acenaphthene	154		0.71113	58(Q)	7.963	32848	7.965
9 Dibenzofuran	168		2.13774	170	8.110	136155	8.118
10 Fluorene	166		1.53617	120	8.404	80286	8.406

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.222	9.215	(1.003)	1654936	22.3115	1800
13 Anthracene	178	9.257	9.256	(1.006)	221263	3.07440	250
16 Fluoranthene	202	10.203	10.196	(1.109)	1876604	24.7302	2000
17 Pyrene	202	10.391	10.384	(0.898)	1549152	17.8652	1400
18 Benzo(a)anthracene	228	11.555	11.542	(0.998)	762939	8.67974	700
20 Chrysene	228	11.596	11.583	(1.002)	1261268	15.9349	1300
21 Benzo(b)fluoranthene	252	12.930	12.893	(0.958)	1573839	22.7490	1800
22 Benzo(k)fluoranthene	252	12.959	12.934	(0.960)	405170	5.59254	450
23 Benzo(a)pyrene	252	13.394	13.363	(0.993)	714732	10.5339	850
25 Indeno(1,2,3-cd)pyrene	276	15.151	15.102	(1.123)	475201	6.76825	550(M)
26 Dibenzo(a,h)anthracene	278	15.174	15.137	(1.125)	147407	2.30539	190
27 Benzo(g,h,i)perylene	276	15.632	15.572	(1.158)	450417	7.18314	580

QC Flag Legend

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

Data File: 1DF05029.D

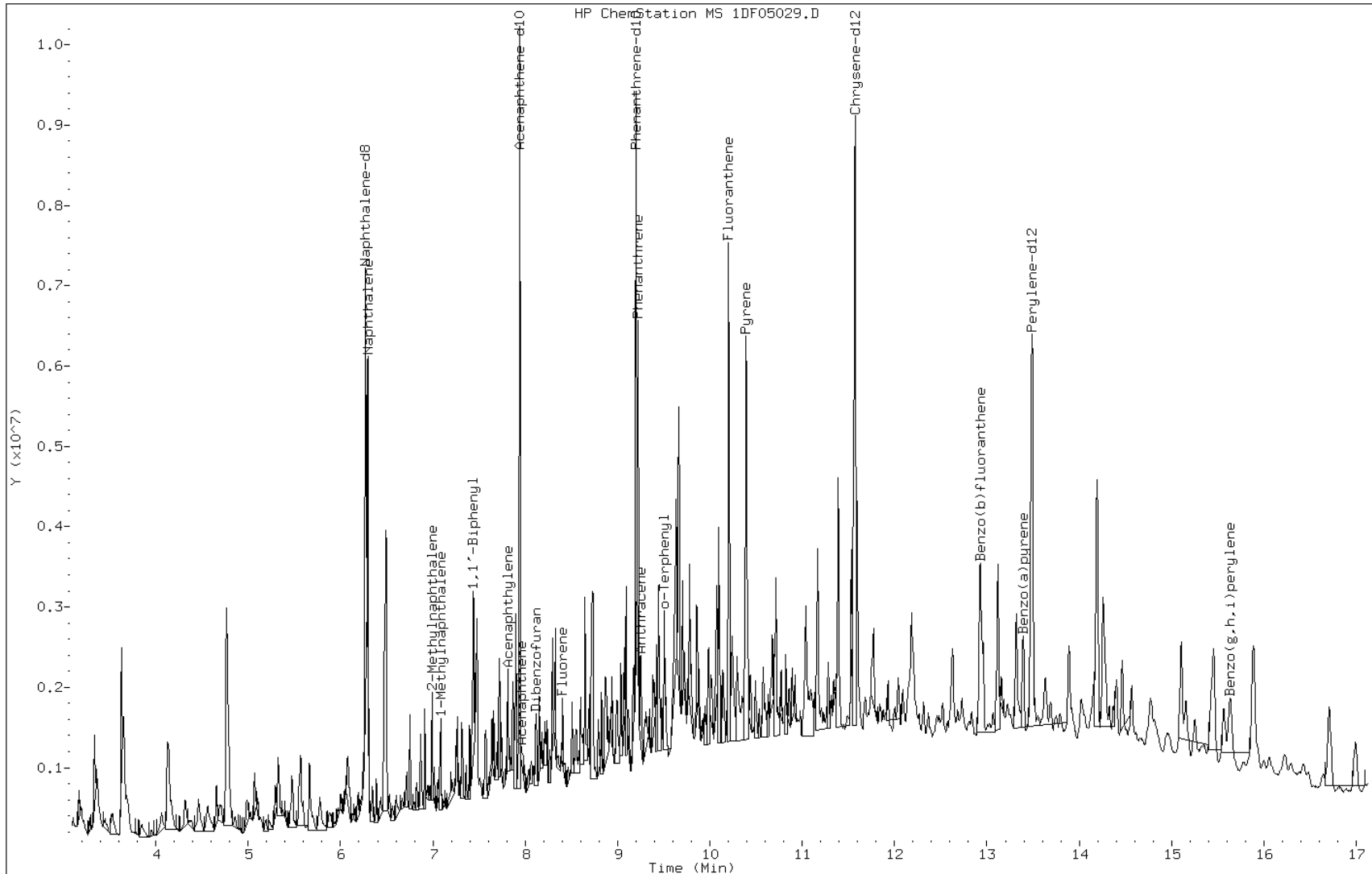
Date: 05-JUN-2013 21:41

Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC





Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

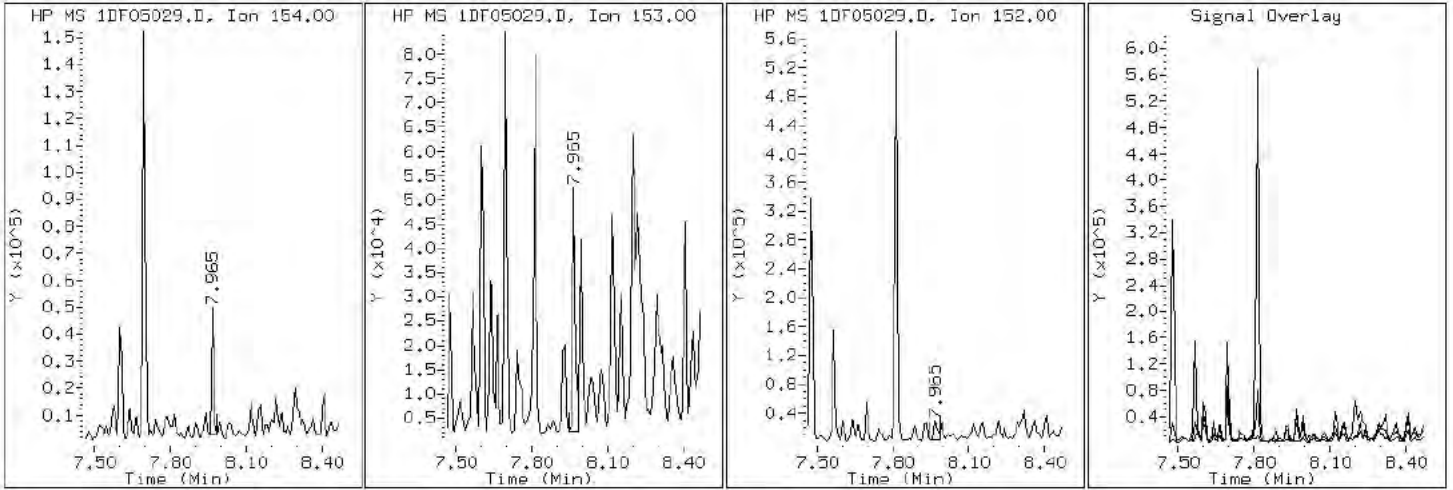
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

8 Acenaphthene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

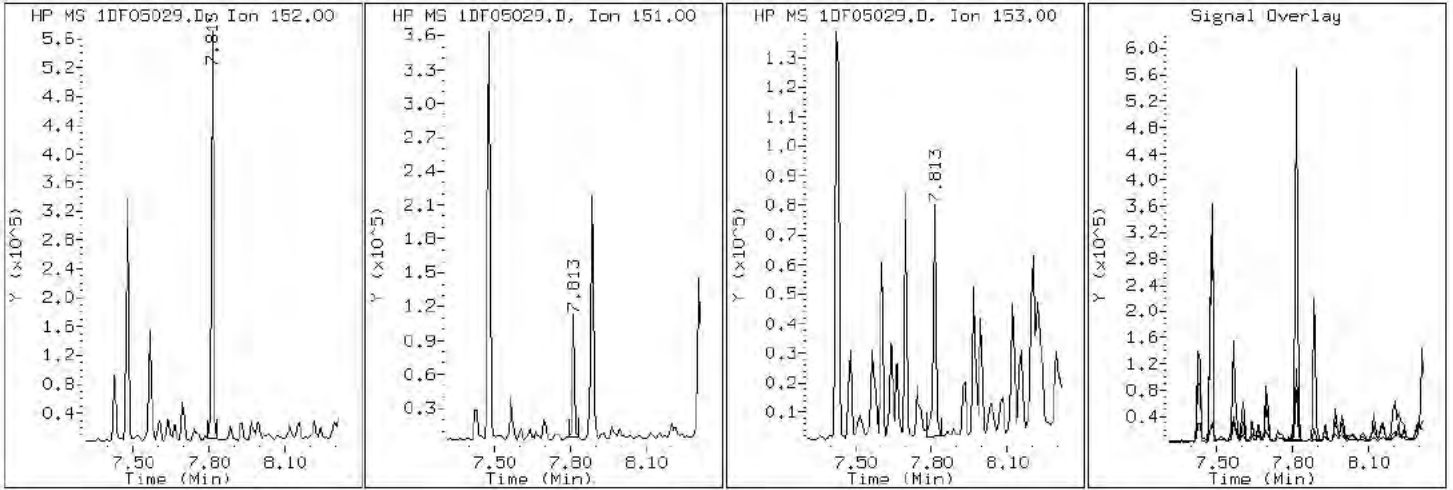
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

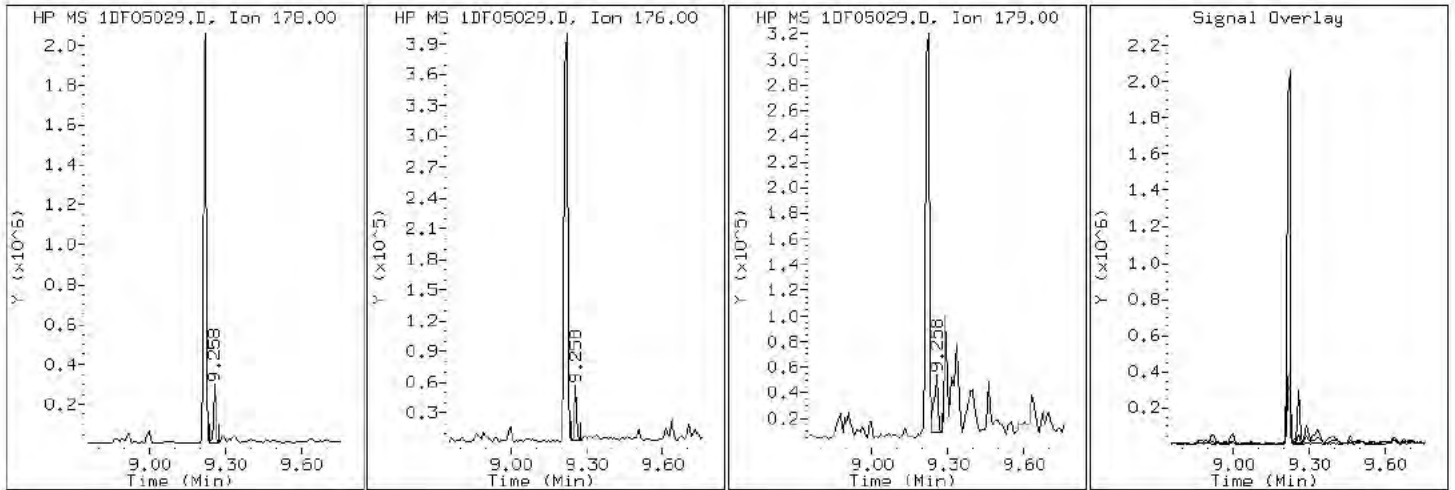
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

13 Anthracene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

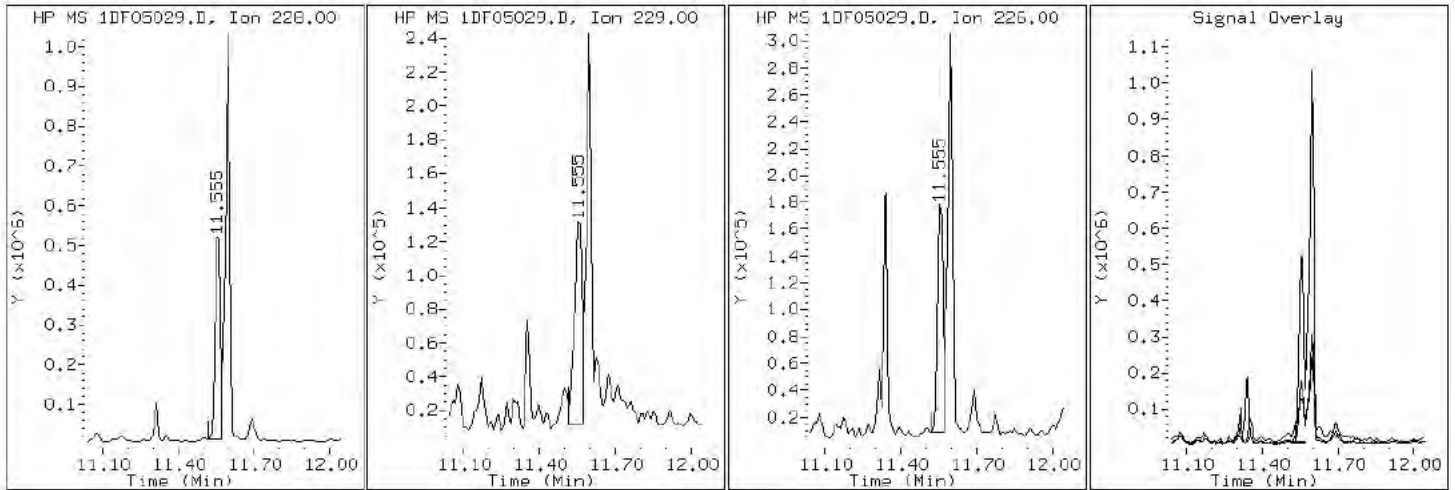
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

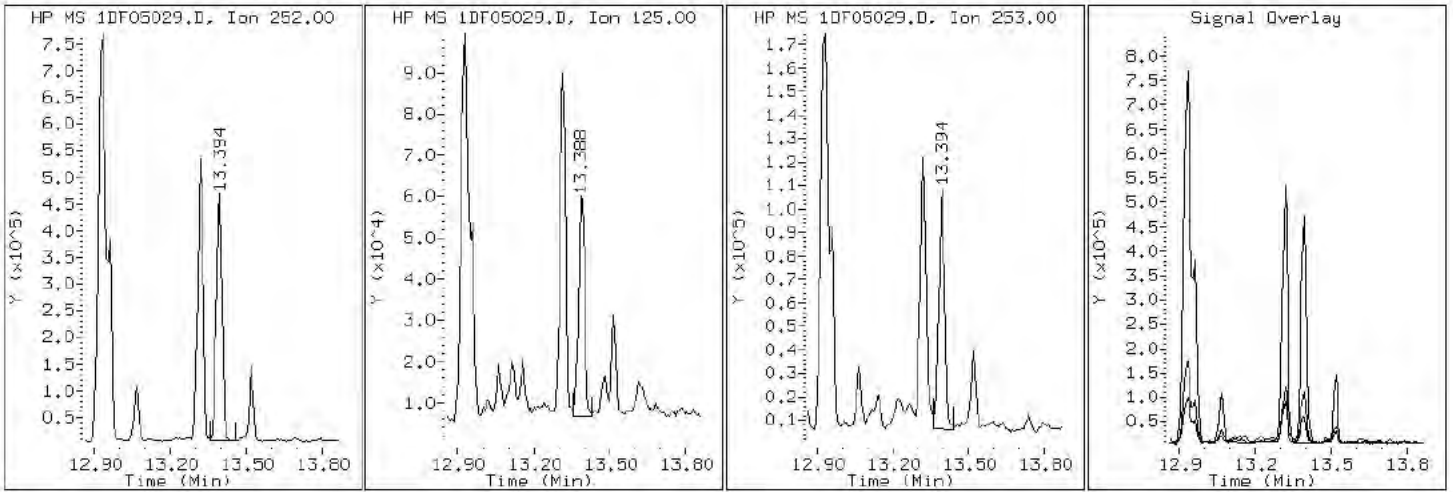
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

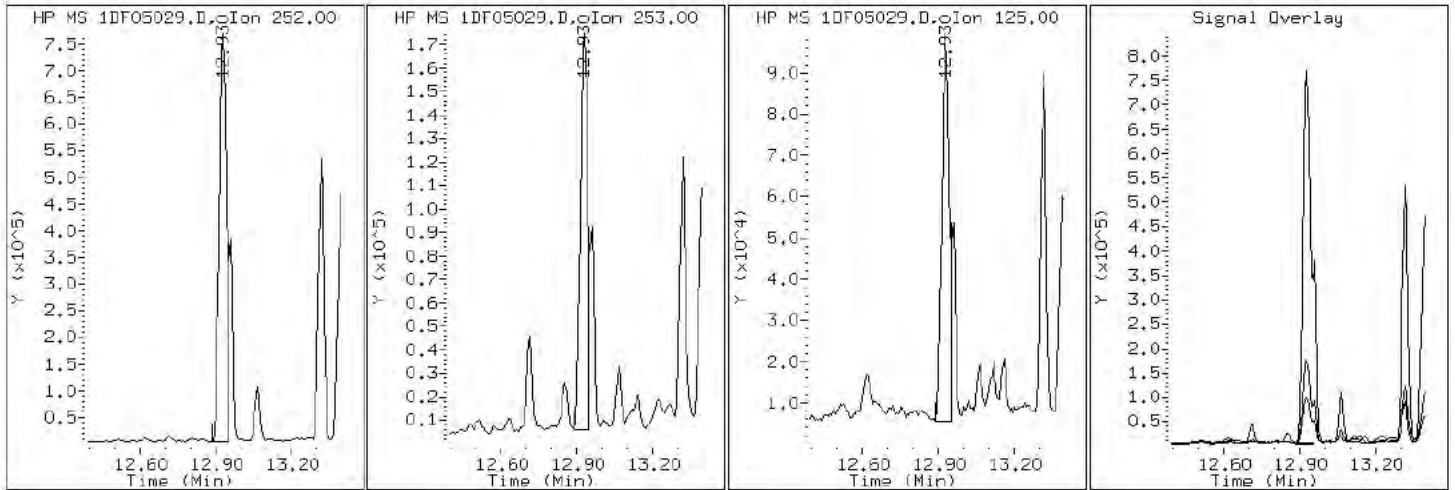
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

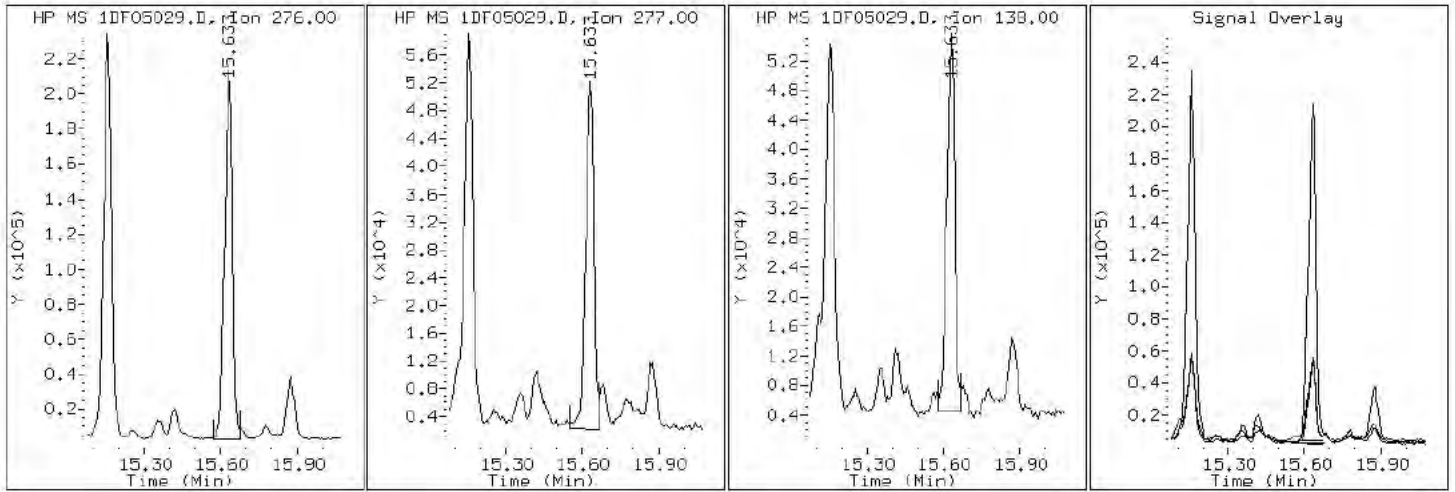
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

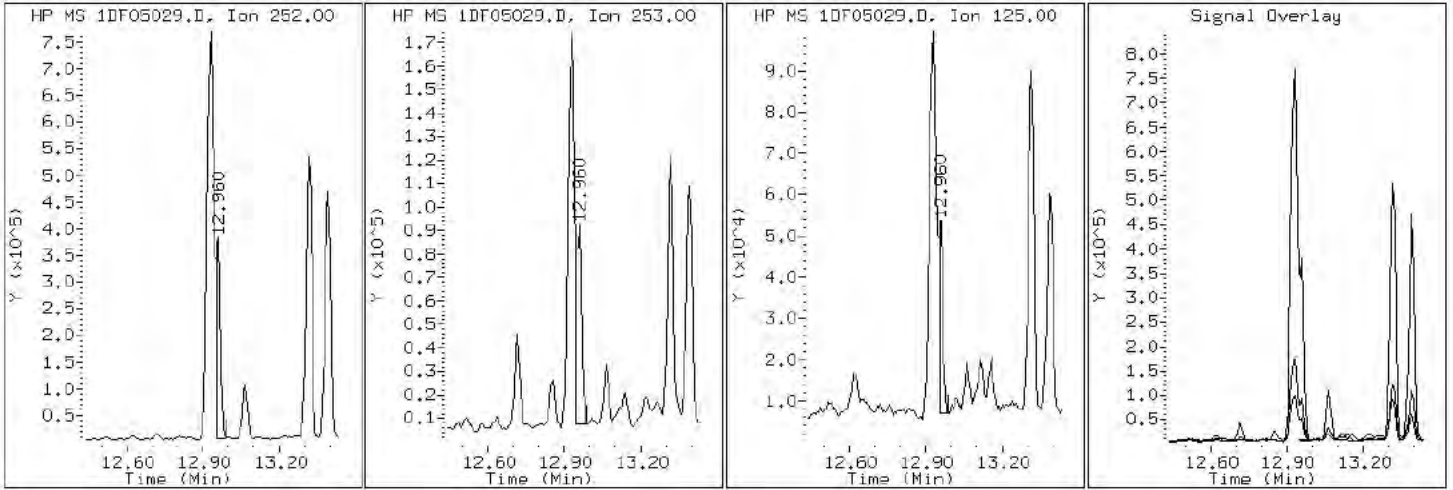
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

22 Benzo(k)fluoranthene





Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

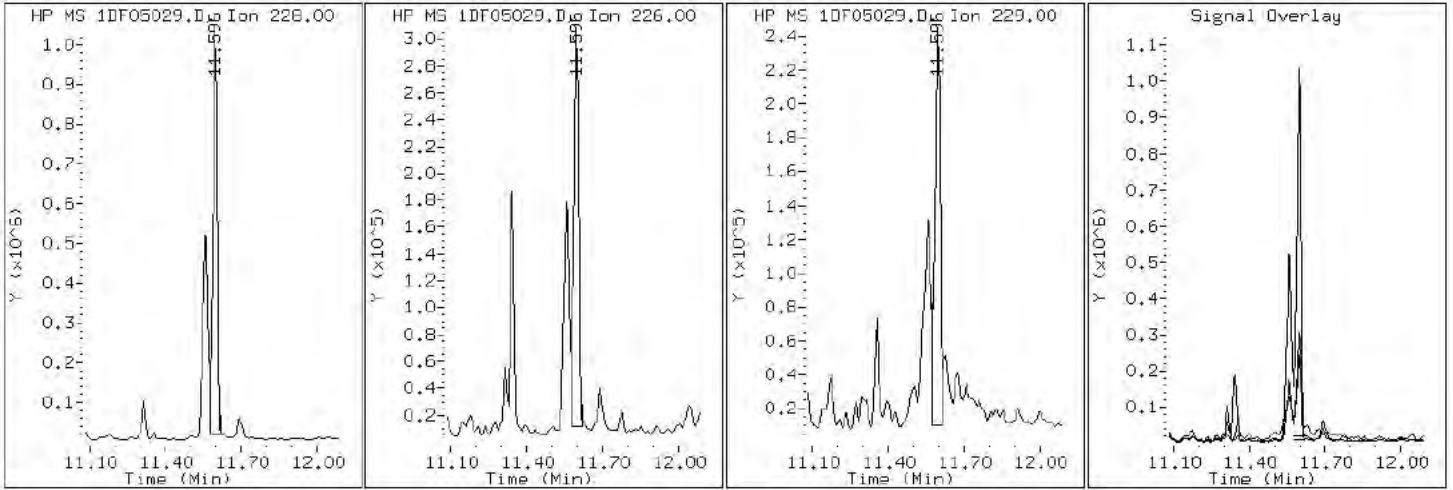
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

20 Chrysene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

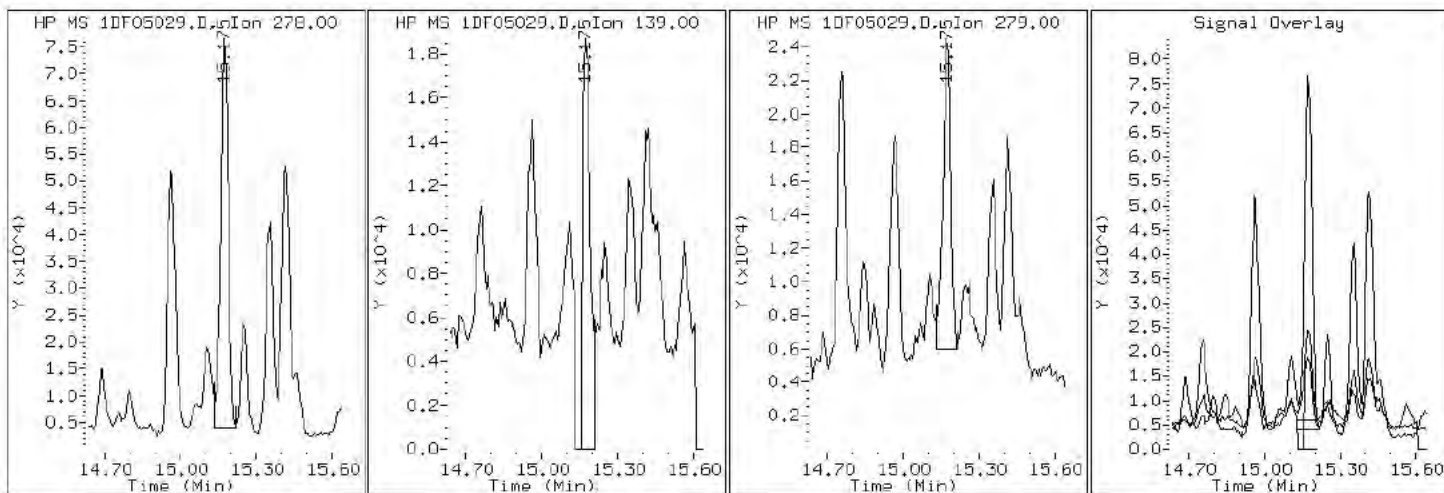
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

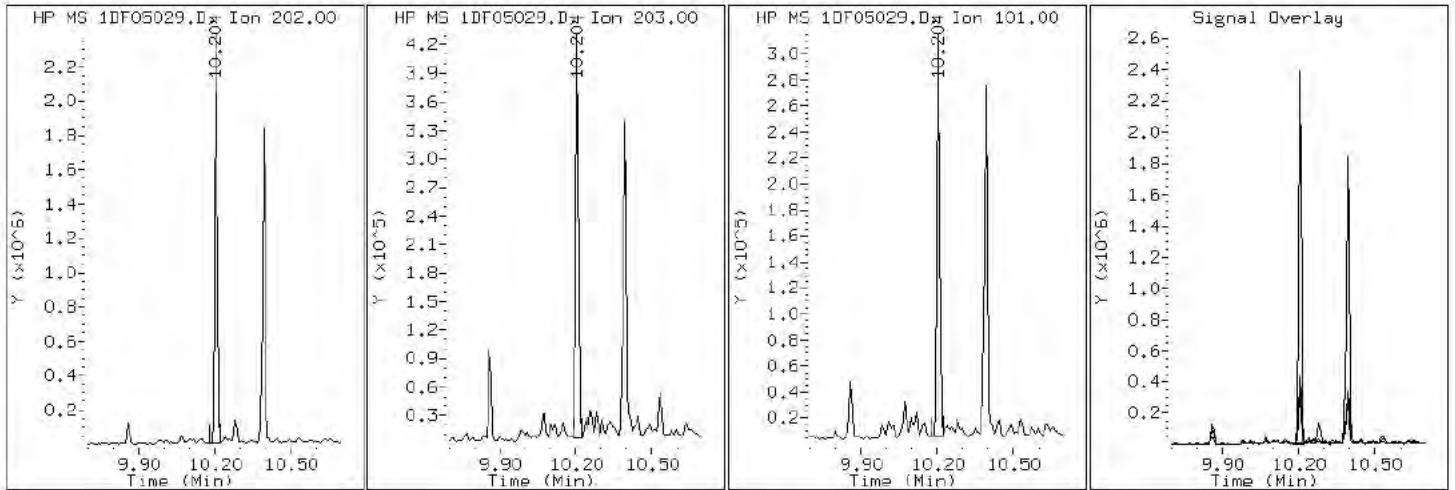
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

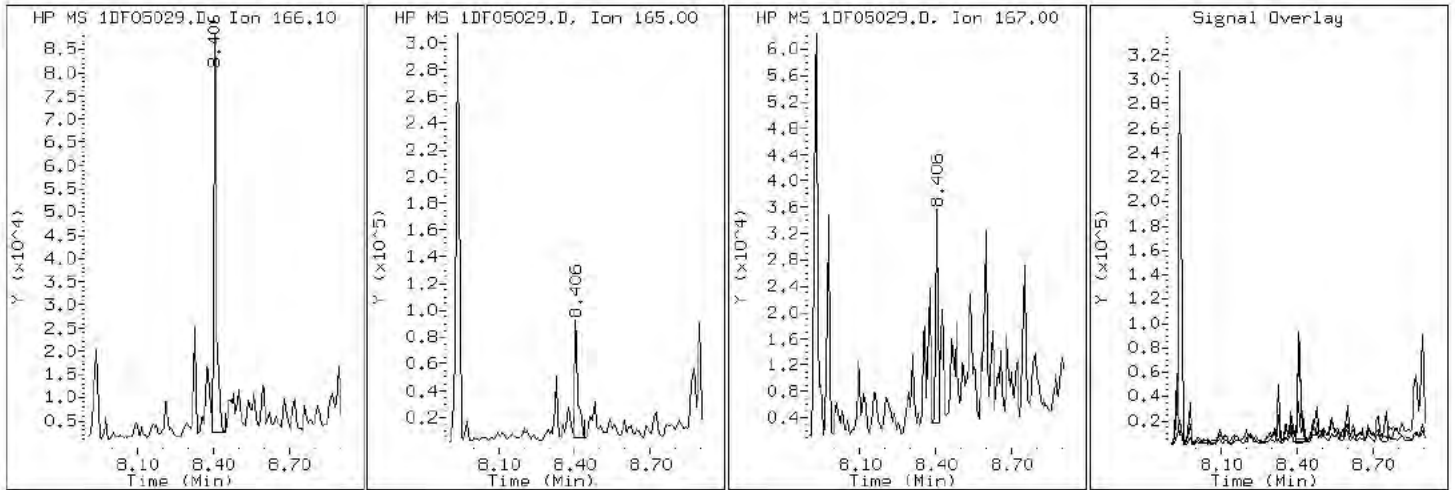
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

10 Fluorene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

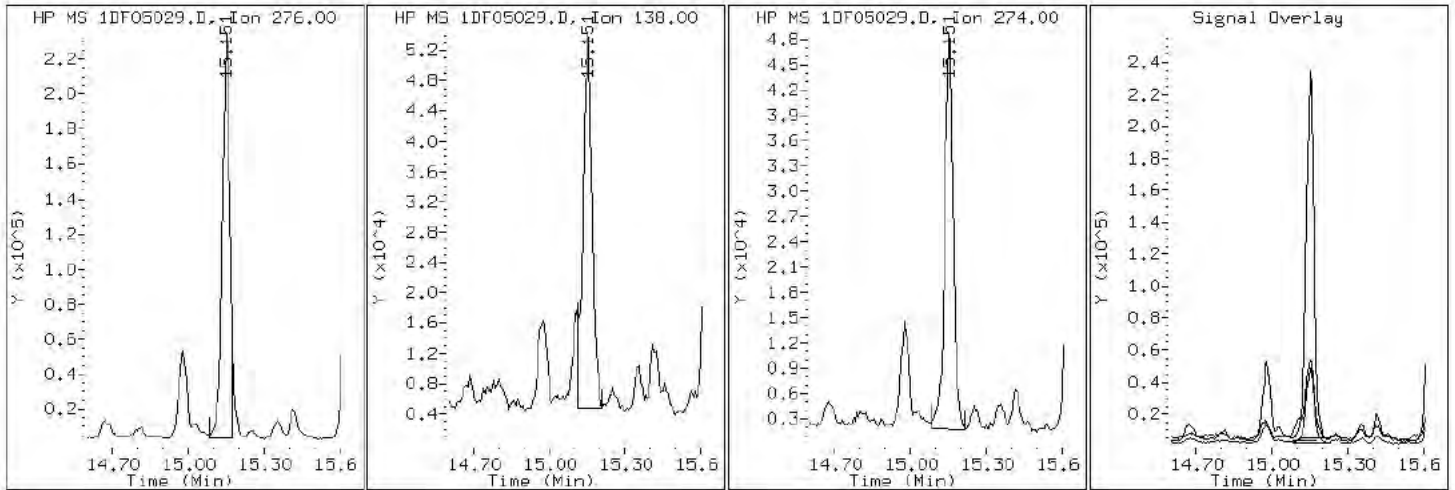
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

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



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

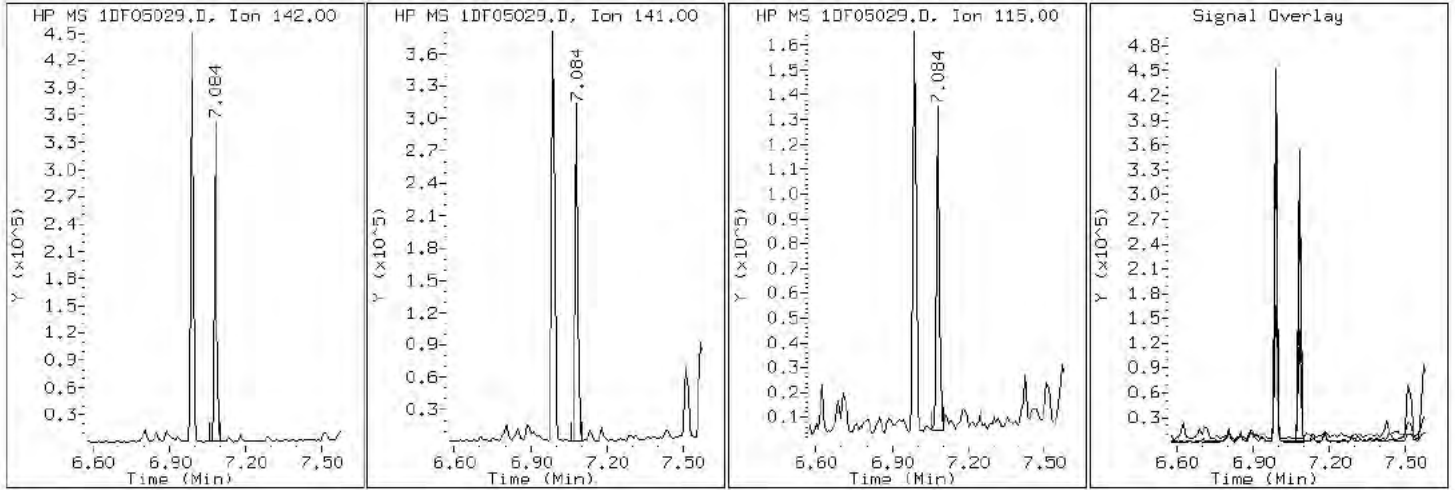
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

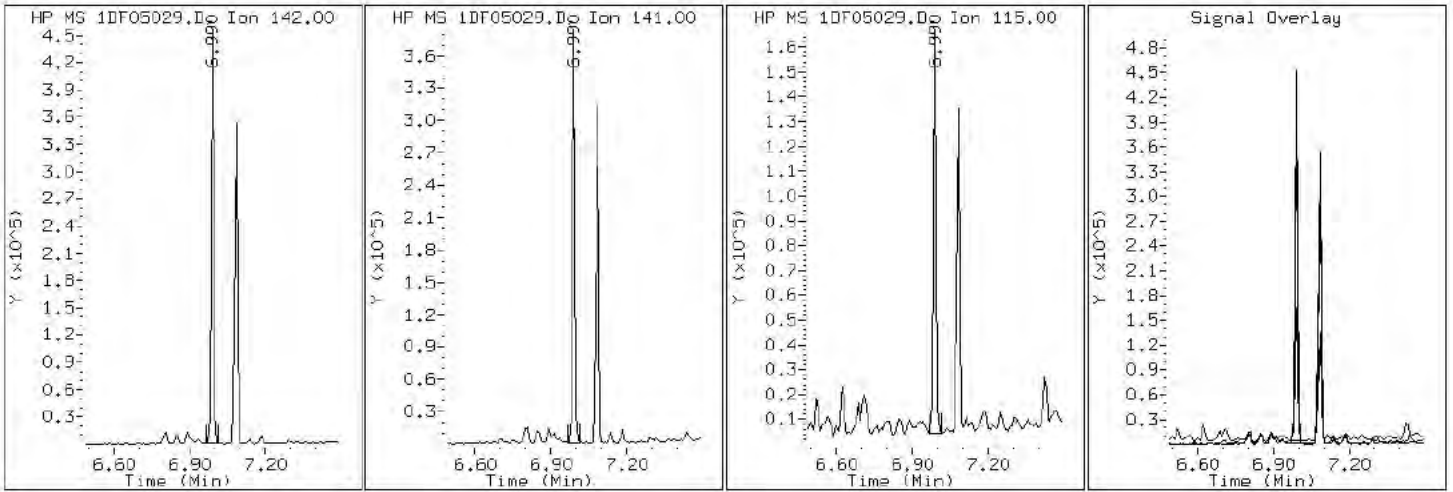
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

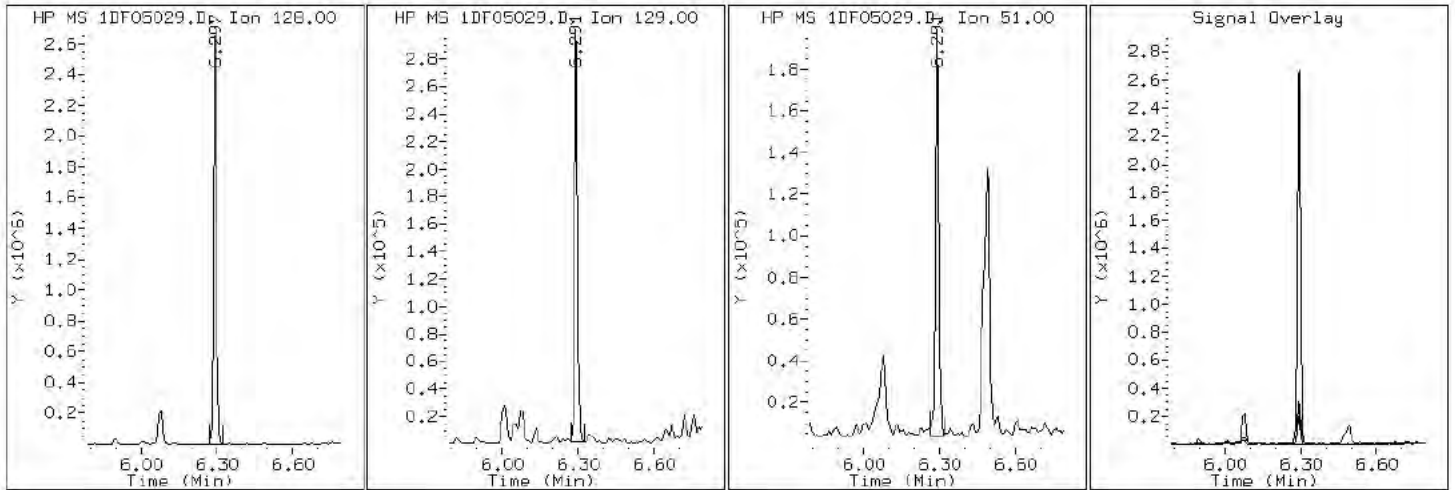
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

2 Naphthalene





Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

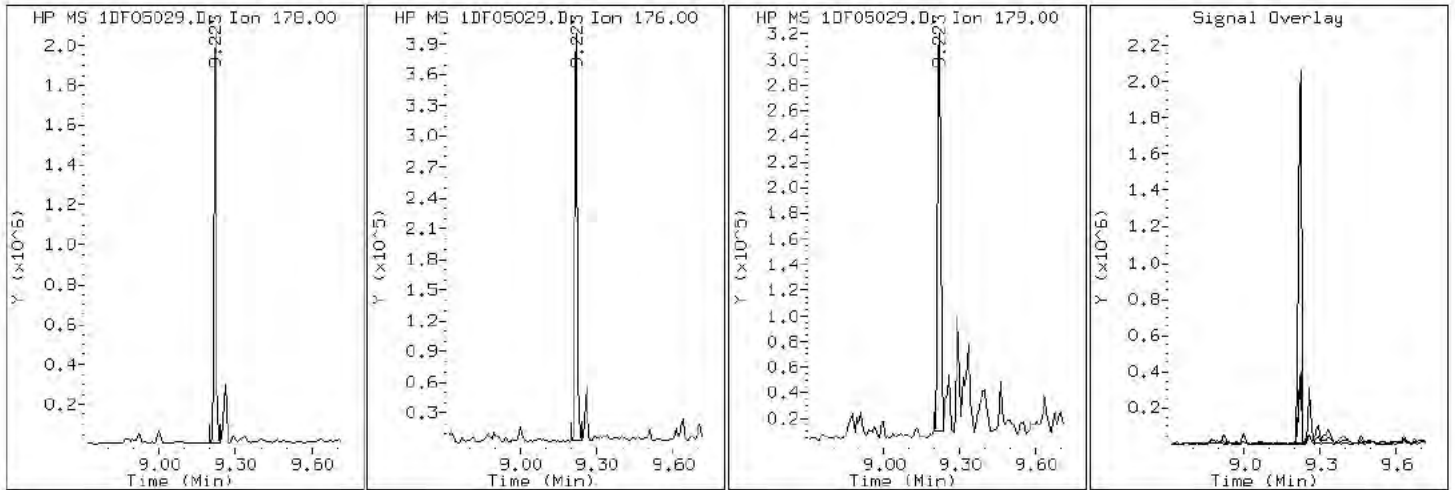
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05029.D

Date: 05-JUN-2013 21:41

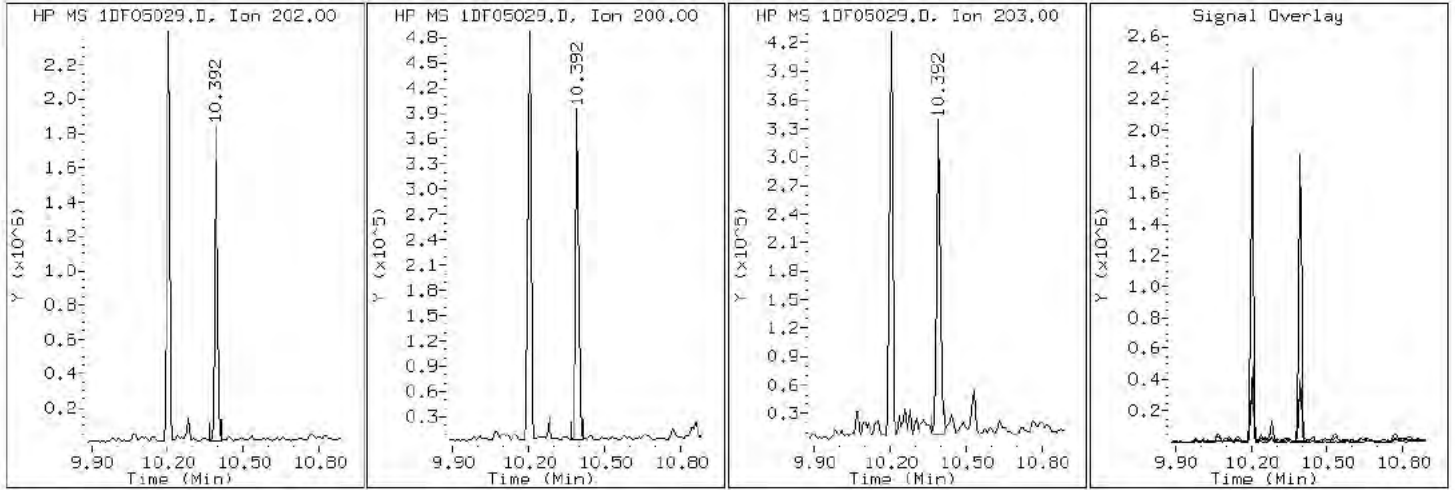
Client ID: CV0650B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-5-a

Operator: SCC

17 Pyrene

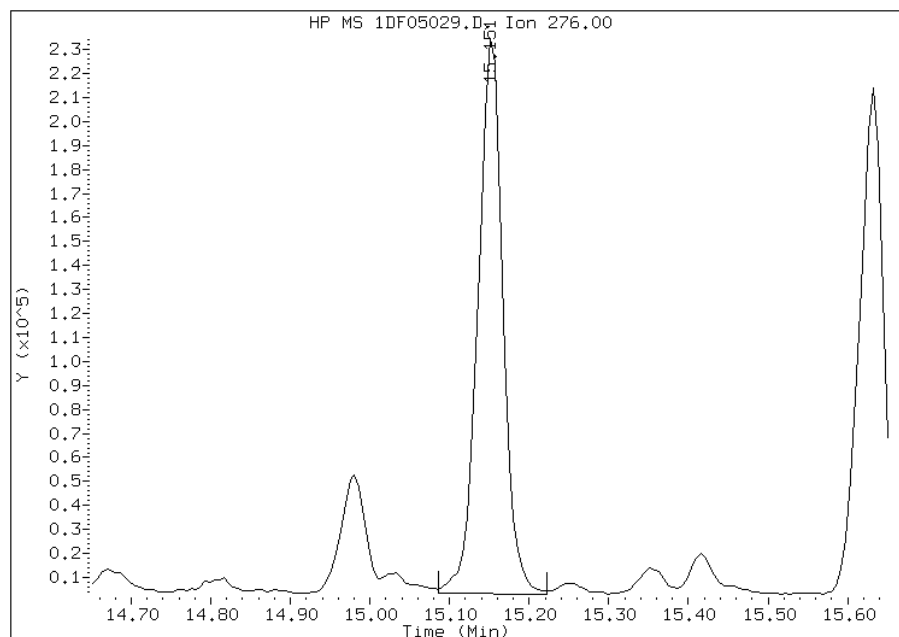


# Manual Integration Report

Data File: 1DF05029.D  
Inj. Date and Time: 05-JUN-2013 21:41  
Instrument ID: BSMSD.i  
Client ID: CV0650B-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

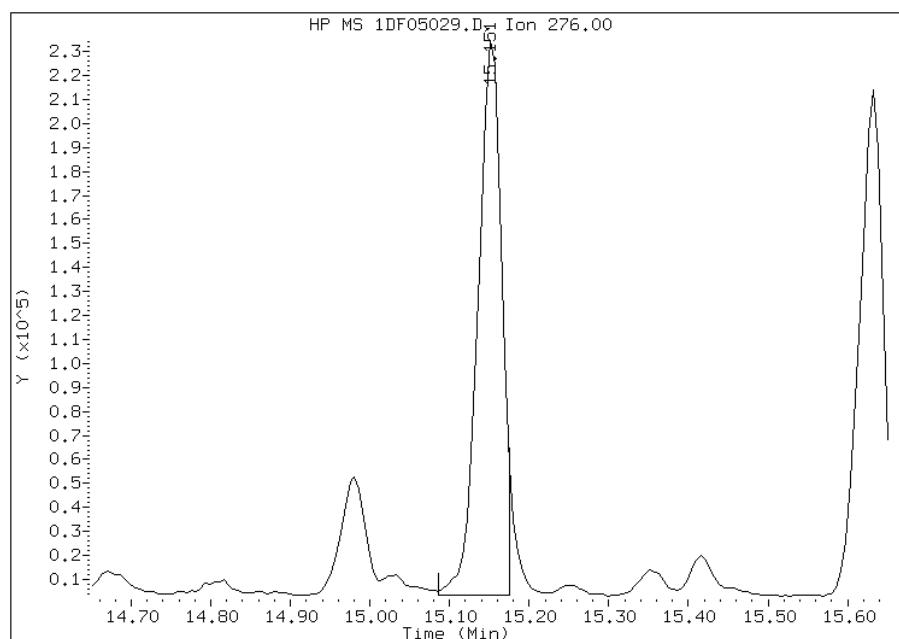
## Processing Integration Results

RT: 15.15  
Response: 500348  
Amount: 7  
Conc: 577



## Manual Integration Results

RT: 15.15  
Response: 475201  
Amount: 7  
Conc: 549



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0696A-CS Lab Sample ID: 680-90852-6  
 Matrix: Solid Lab File ID: 1DF05030.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 12:40  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.32(g) Date Analyzed: 06/05/2013 22:04  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 16.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	39	J	47	5.9
120-12-7	Anthracene	65		9.9	4.9
56-55-3	Benzo[a]anthracene	210		9.4	4.6
50-32-8	Benzo[a]pyrene	230		12	6.1
205-99-2	Benzo[b]fluoranthene	440		14	7.2
191-24-2	Benzo[g,h,i]perylene	150		23	5.2
207-08-9	Benzo[k]fluoranthene	140		9.4	4.2
218-01-9	Chrysene	350		11	5.3
53-70-3	Dibenz(a,h)anthracene	53		23	4.8
206-44-0	Fluoranthene	430		23	4.7
86-73-7	Fluorene	30		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	140		23	8.3
90-12-0	1-Methylnaphthalene	180		47	5.2
91-57-6	2-Methylnaphthalene	260		47	8.3
91-20-3	Naphthalene	210		47	5.2
85-01-8	Phenanthrene	400		9.4	4.6
129-00-0	Pyrene	330		23	4.3

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05030.D  
 Lab Smp Id: 680-90852-A-6-A Client Smp ID: CV0696A-CS  
 Inj Date : 05-JUN-2013 22:04  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-6-a  
 Misc Info : 680-90852-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 30  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	16.629	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.271	6.265	(1.000)	2957362	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.934	(1.000)	1611467	40.0000	
* 11 Phenanthrene-d10	188	9.197	9.191	(1.000)	2455739	40.0000	
\$ 15 o-Terphenyl	230	9.508	9.503	(1.034)	248589	6.90962	540
* 19 Chrysene-d12	240	11.565	11.553	(1.000)	2528132	40.0000	
* 24 Perylene-d12	264	13.480	13.457	(1.000)	2363424	40.0000	
2 Naphthalene	128	6.289	6.289	(1.003)	197849	2.71286	210
3 2-Methylnaphthalene	142	6.988	6.988	(1.114)	153188	3.29893	260
4 1-Methylnaphthalene	142	7.082	7.076	(1.129)	109019	2.28048	180
5 1,1'-Biphenyl	154	7.428	7.423	(0.936)	38085	0.69952	55
6 Acenaphthylene	152	7.810	7.811	(0.984)	32990	0.49376	39
8 Acenaphthene	154	7.963	7.963	(1.003)	9157	0.21604	17(Q)
9 Dibenzofuran	168	8.116	8.110	(1.022)	53035	0.90748	71
10 Fluorene	166	8.410	8.404	(1.059)	18370	0.38305	30

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.214	9.215	(1.002)	335561	5.04531	400
13 Anthracene	178	9.256	9.256	(1.006)	53806	0.83378	65
16 Fluoranthene	202	10.202	10.196	(1.109)	377934	5.55445	430
17 Pyrene	202	10.390	10.384	(0.898)	314322	4.24658	330
18 Benzo(a)anthracene	228	11.547	11.542	(0.998)	198825	2.64996	210
20 Chrysene	228	11.588	11.583	(1.002)	303796	4.49651	350
21 Benzo(b)fluoranthene	252	12.910	12.893	(0.958)	334060	5.64204	440
22 Benzo(k)fluoranthene	252	12.945	12.934	(0.960)	114380	1.84473	140
23 Benzo(a)pyrene	252	13.374	13.363	(0.992)	167898	2.96281	230
25 Indeno(1,2,3-cd)pyrene	276	15.125	15.102	(1.122)	98890	1.75778	140(M)
26 Dibenzo(a,h)anthracene	278	15.155	15.137	(1.124)	34134	0.67627	53
27 Benzo(g,h,i)perylene	276	15.601	15.572	(1.157)	100617	1.87491	150

QC Flag Legend

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

Data File: 1DF05030.D

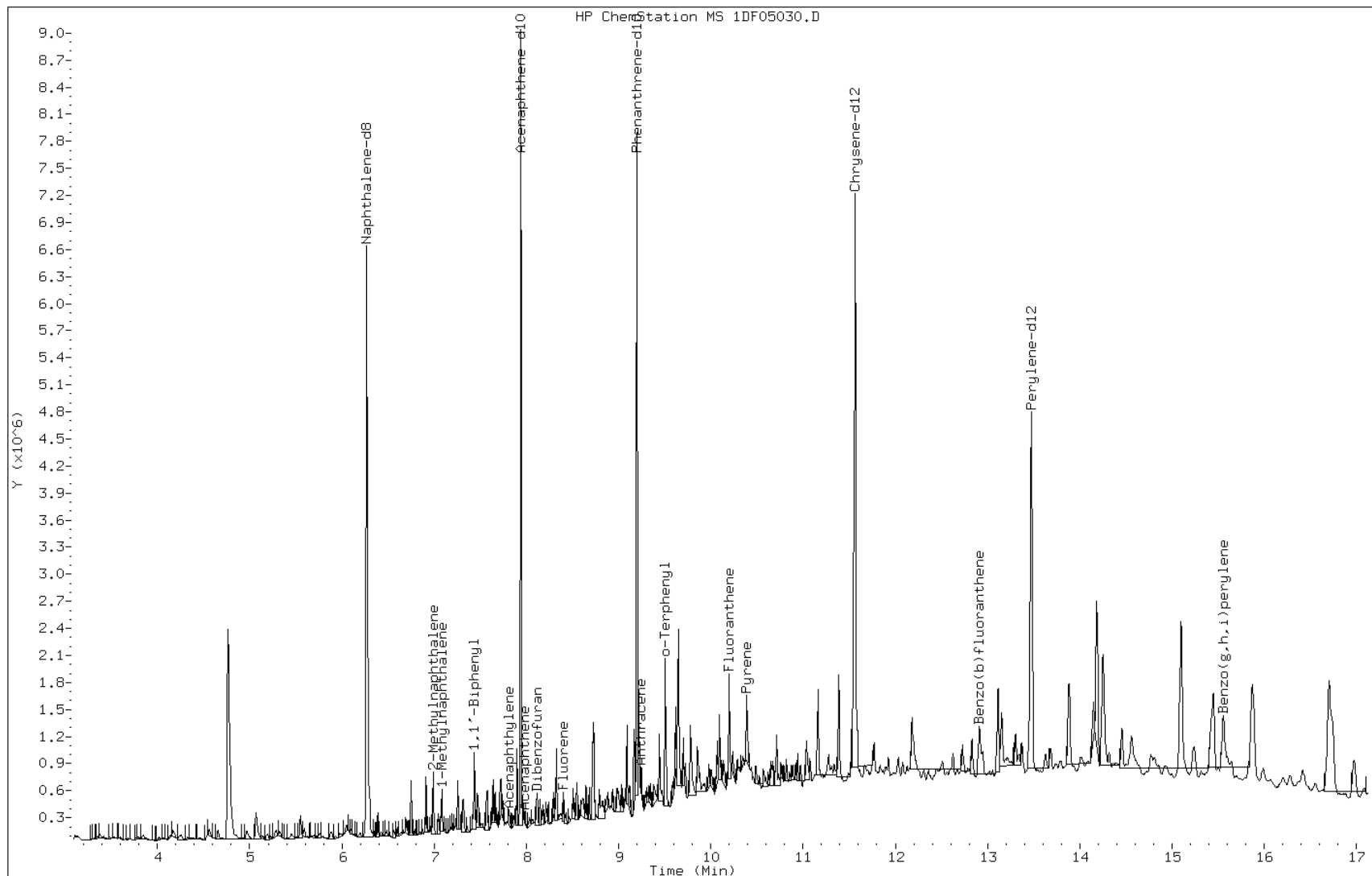
Date: 05-JUN-2013 22:04

Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

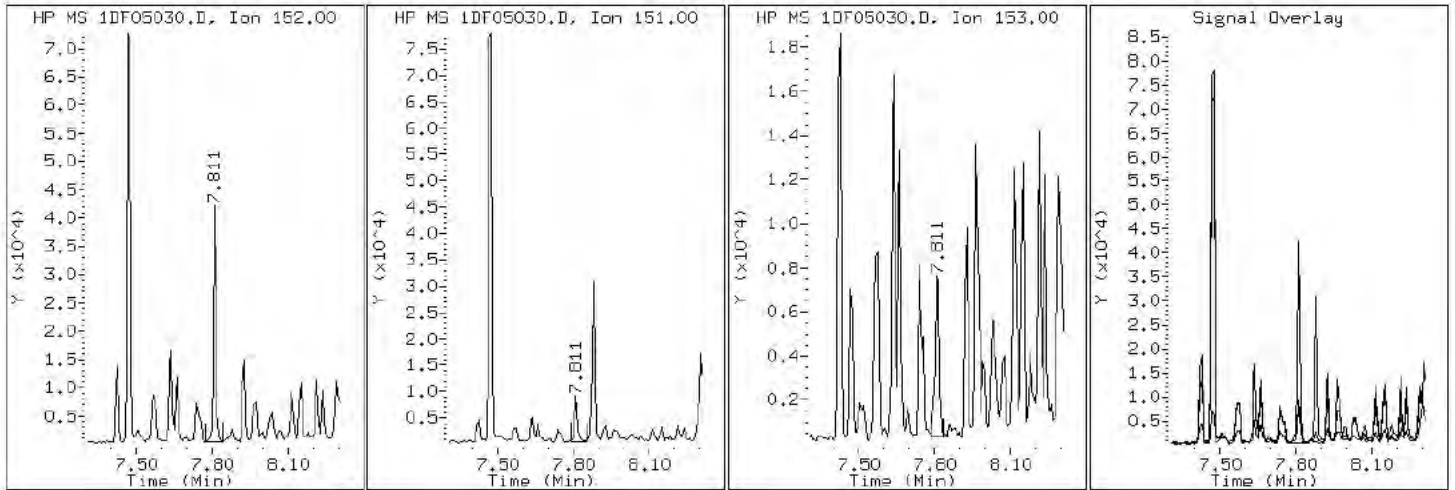
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

6 Acenaphthylene





Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

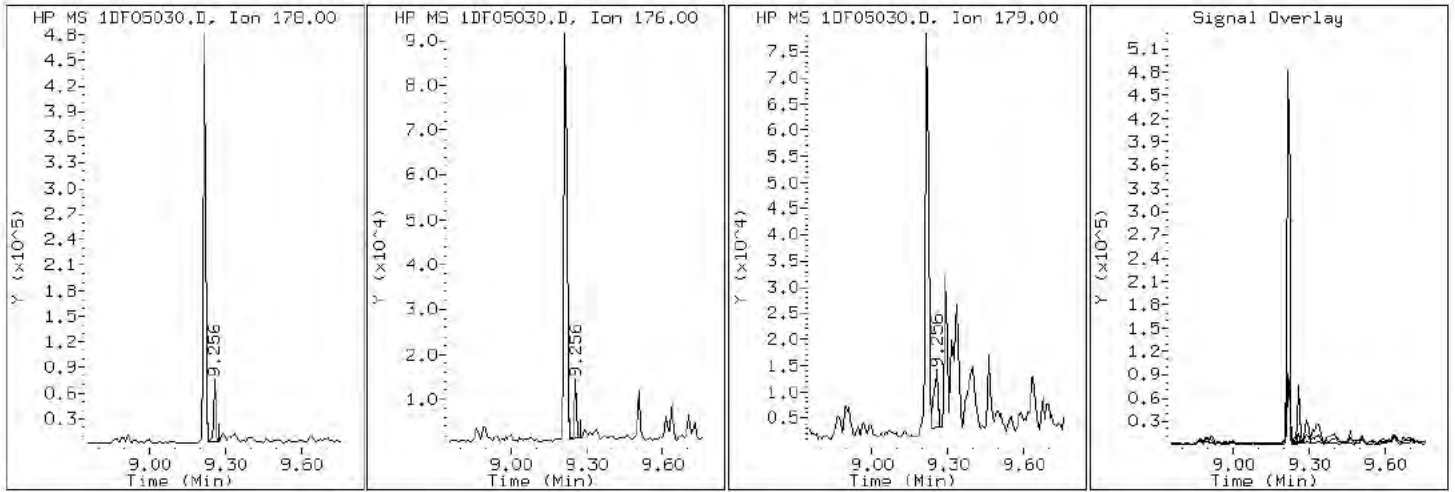
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

13 Anthracene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

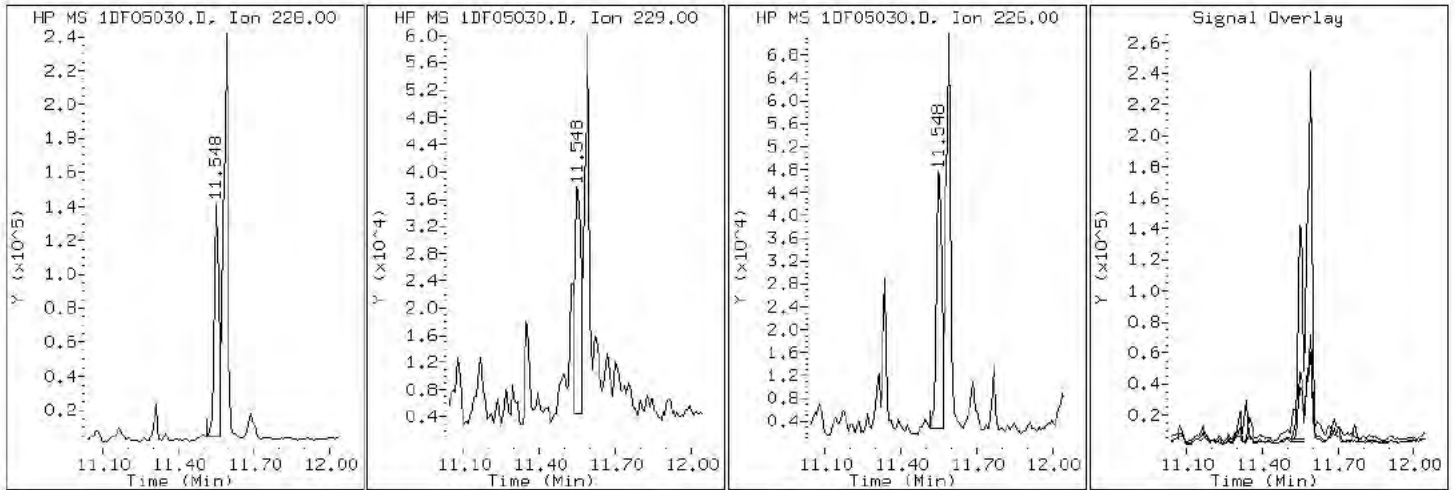
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

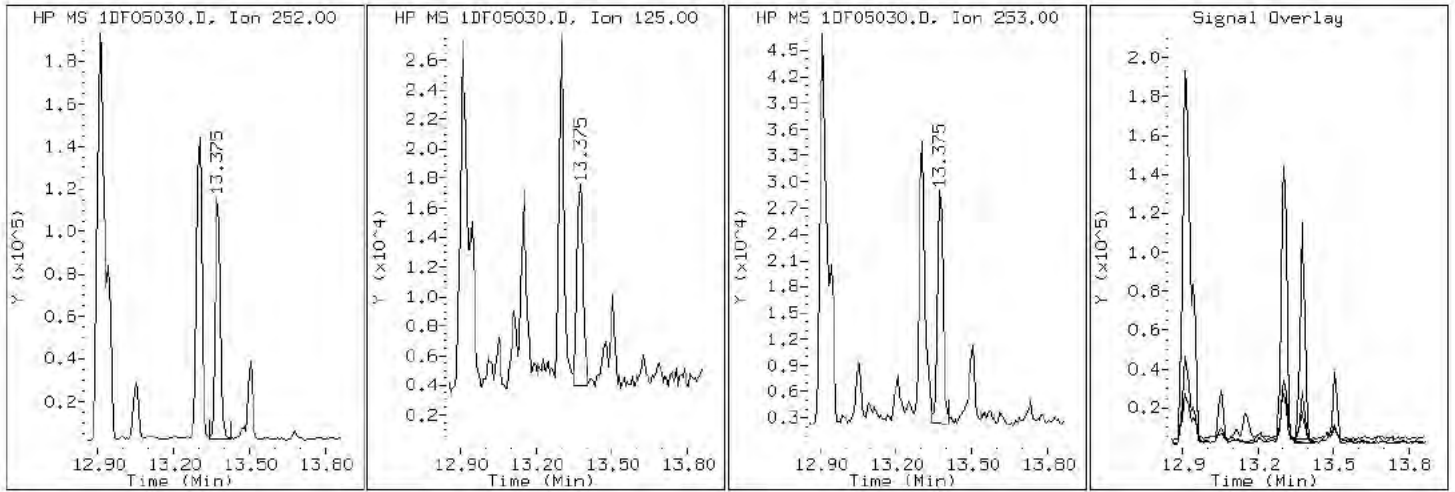
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

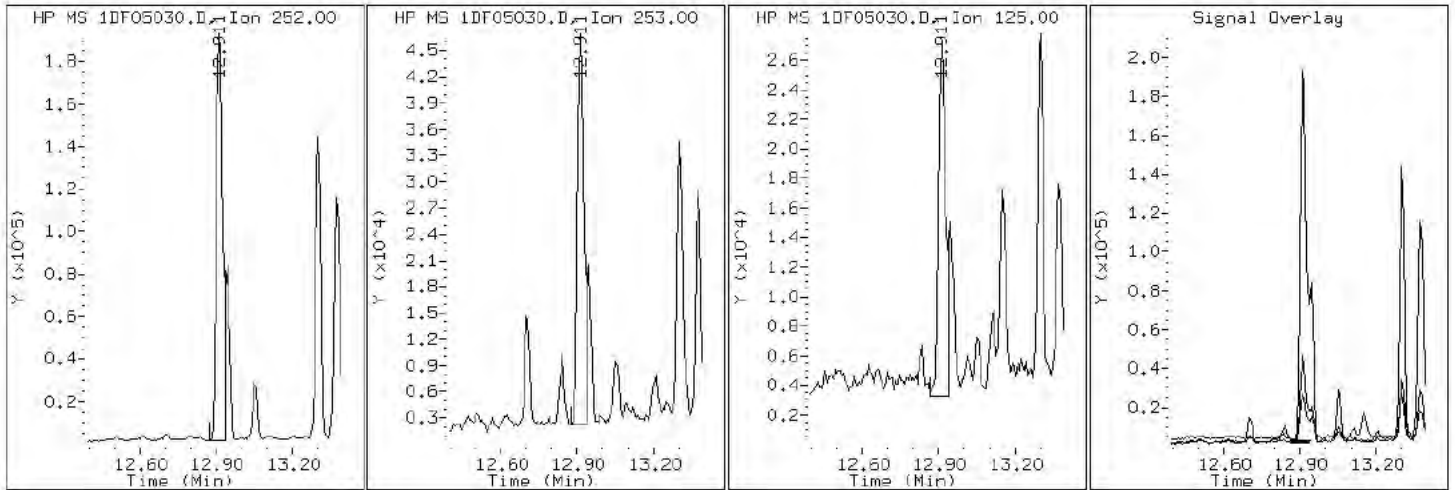
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

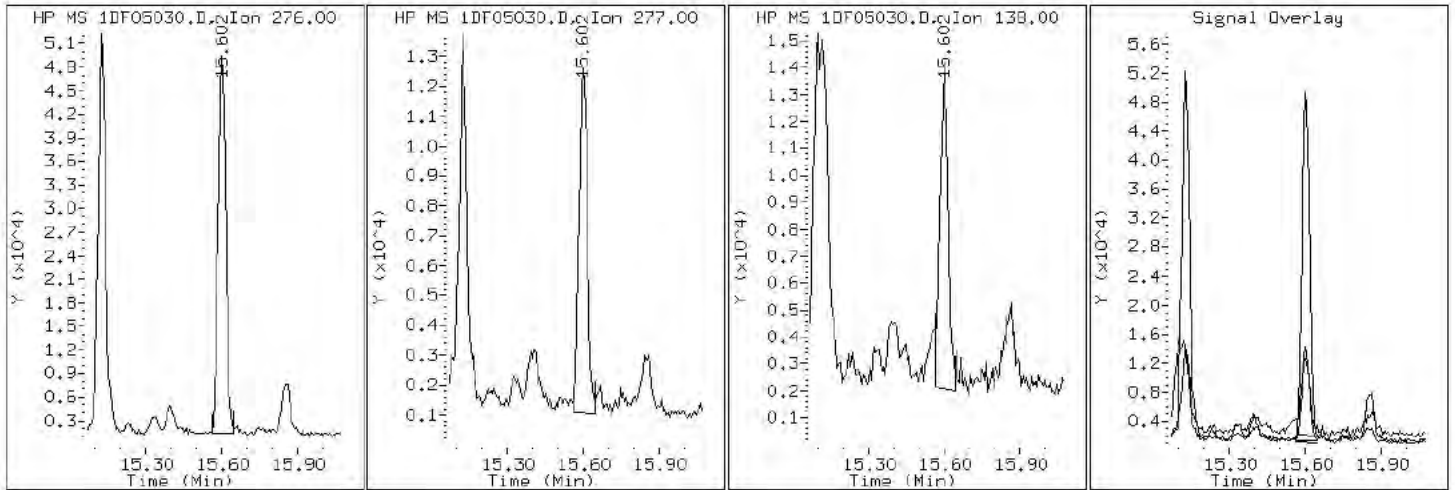
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

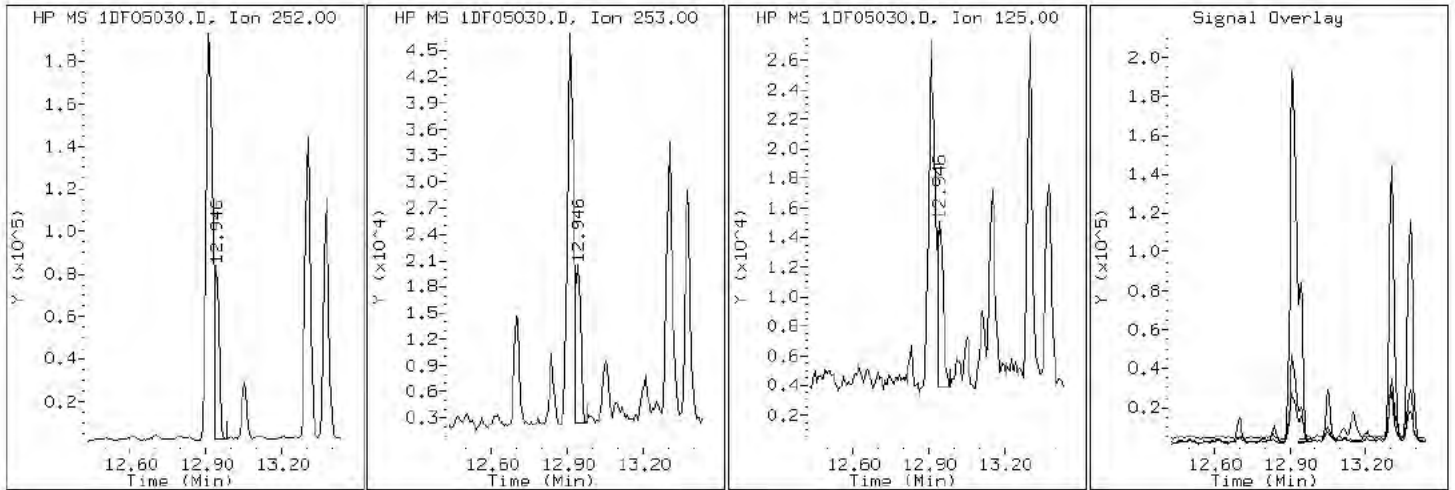
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

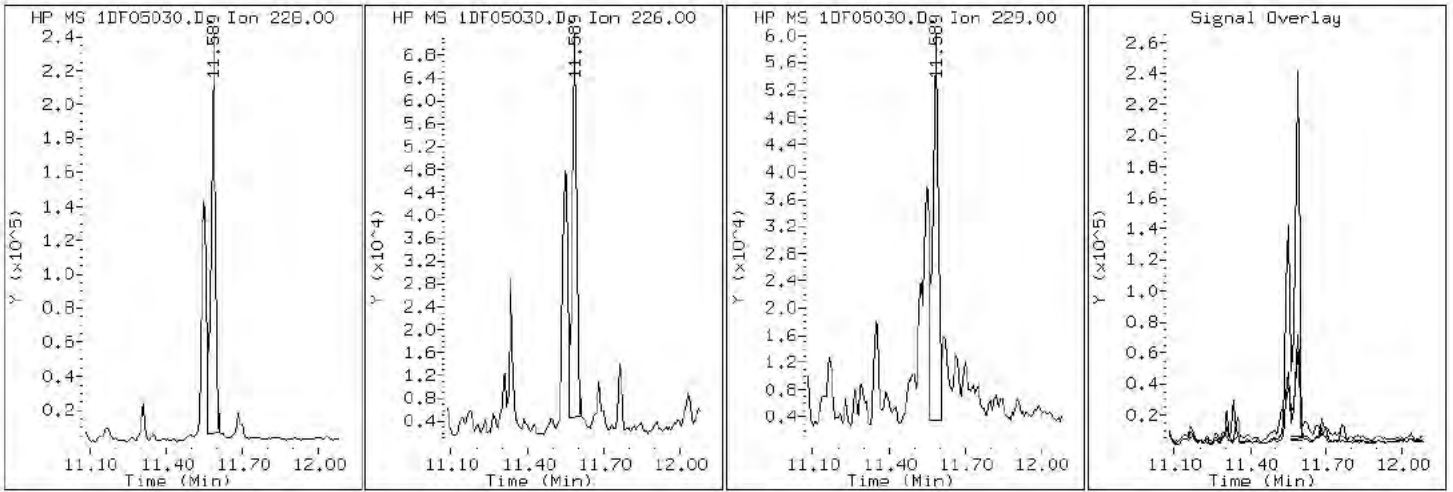
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

20 Chrysene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

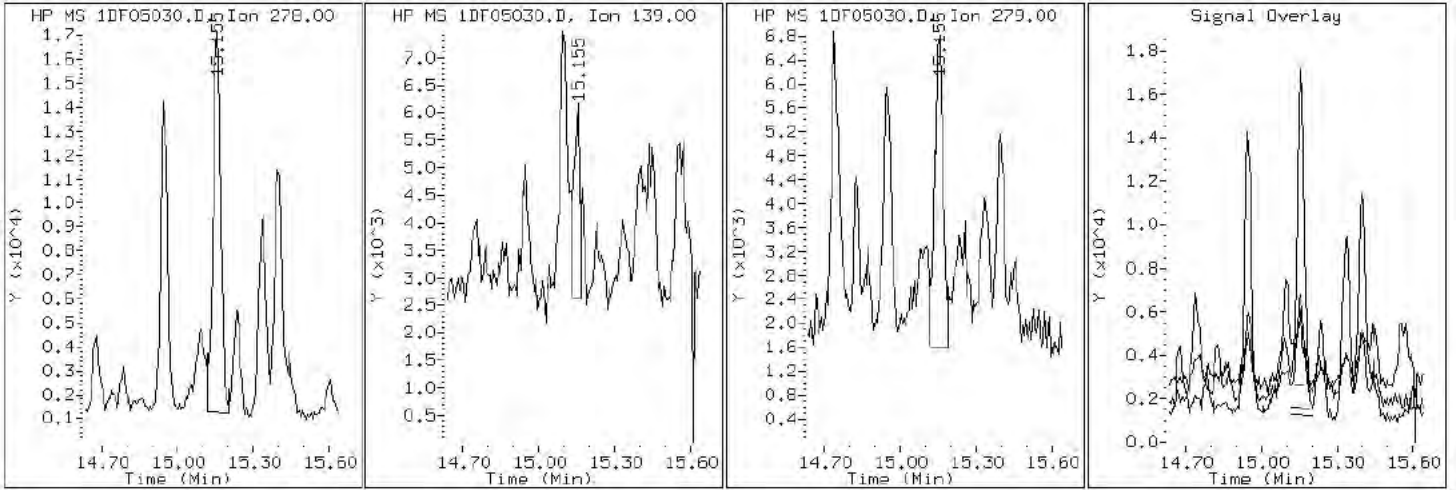
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

26 Dibenzo (a,h) anthracene





Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

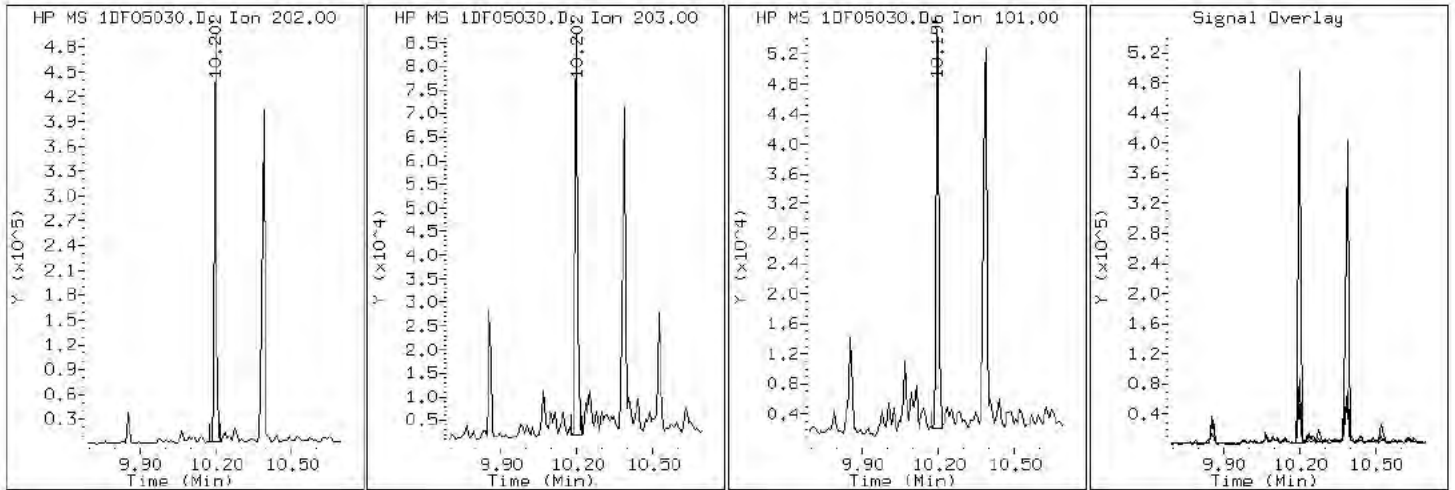
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

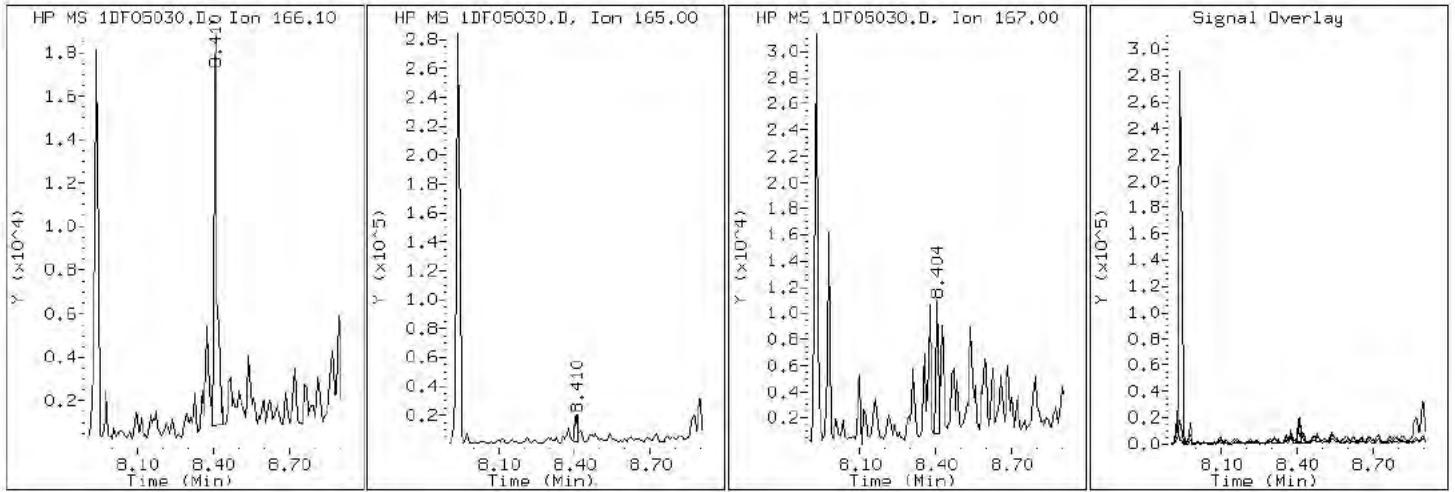
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

10 Fluorene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

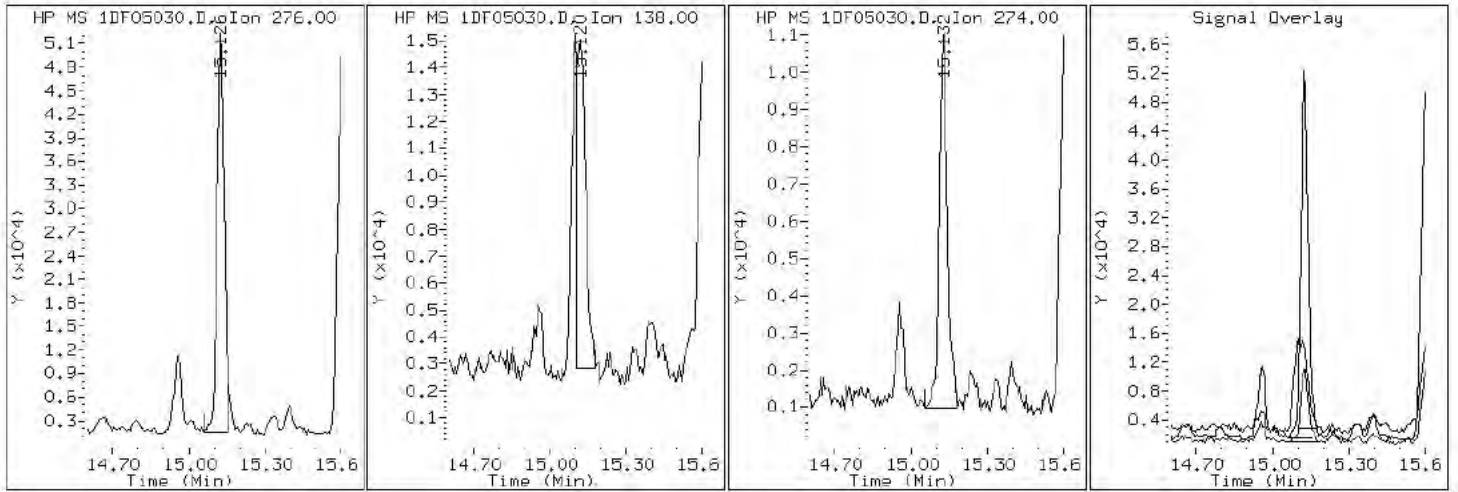
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

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



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

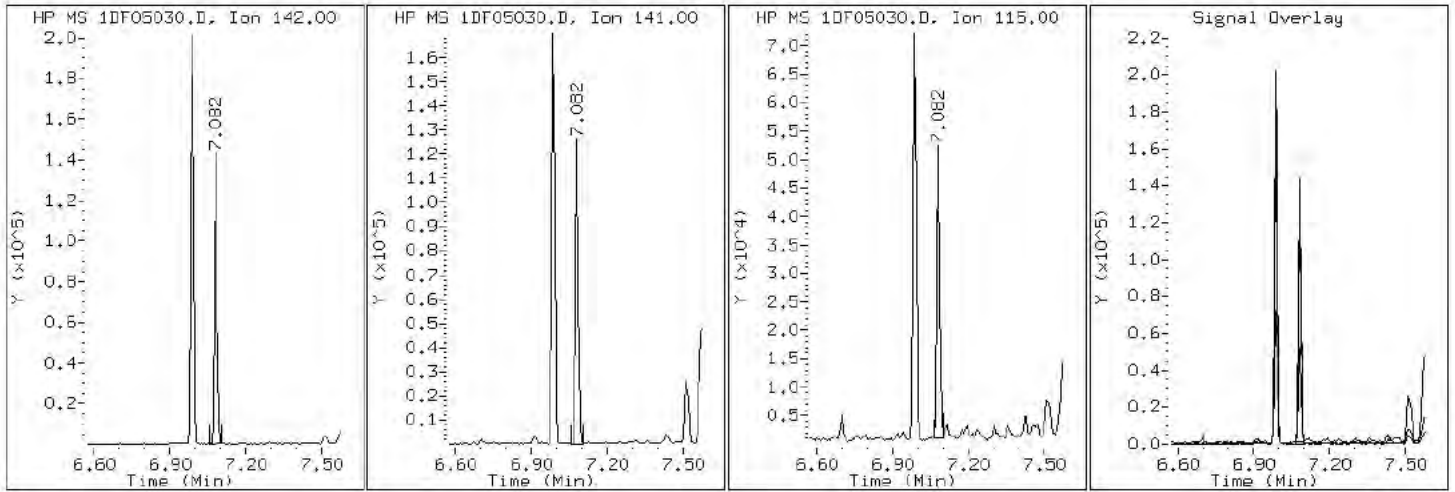
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

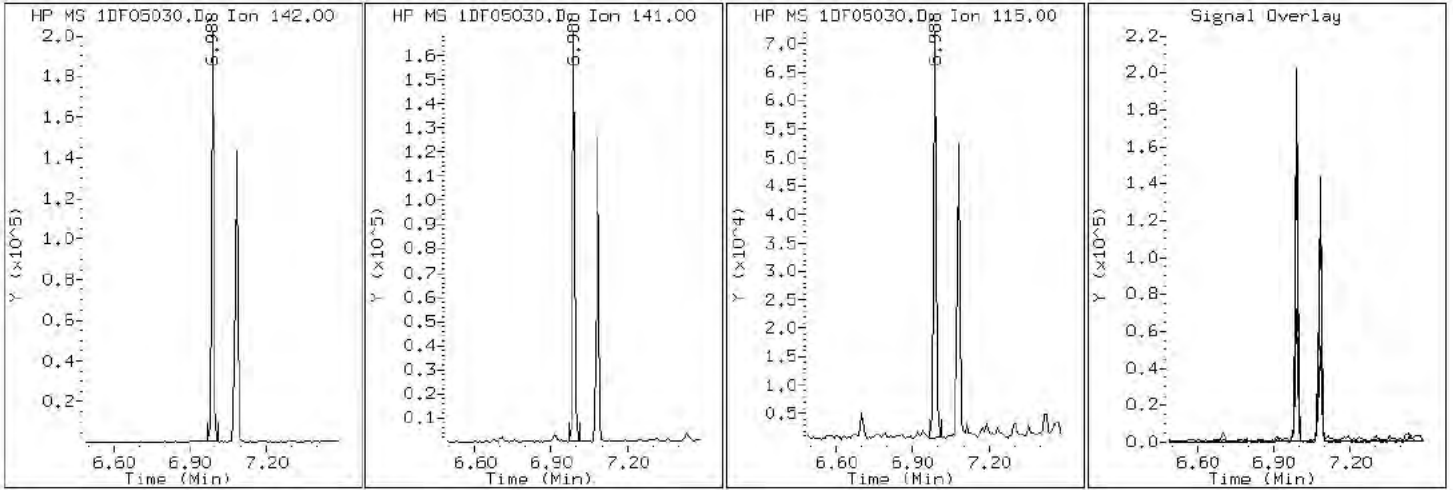
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

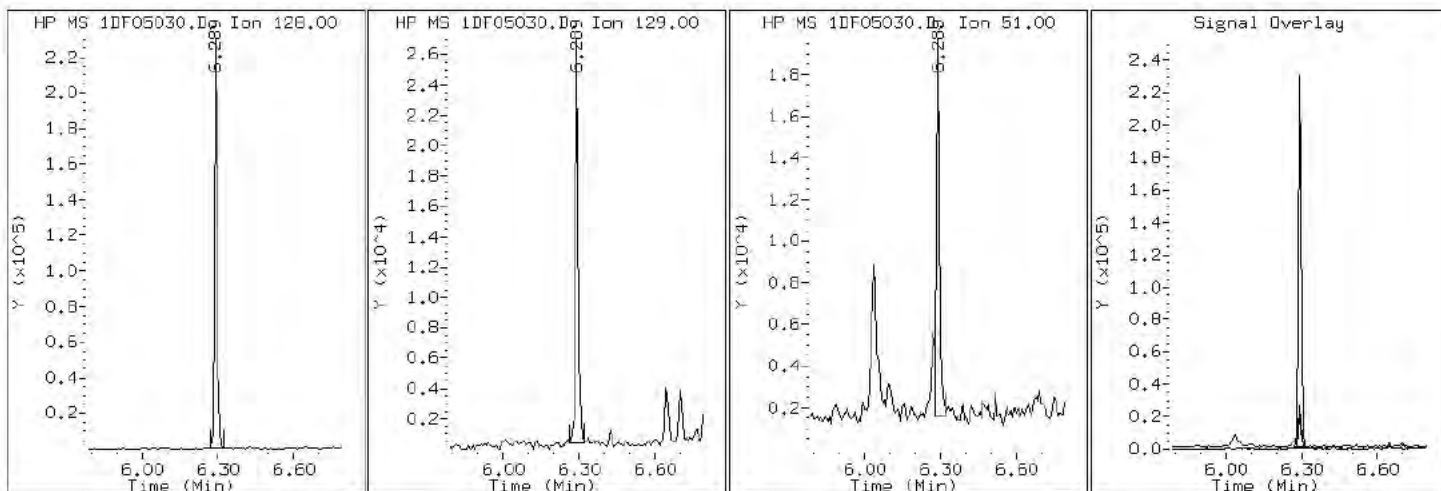
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

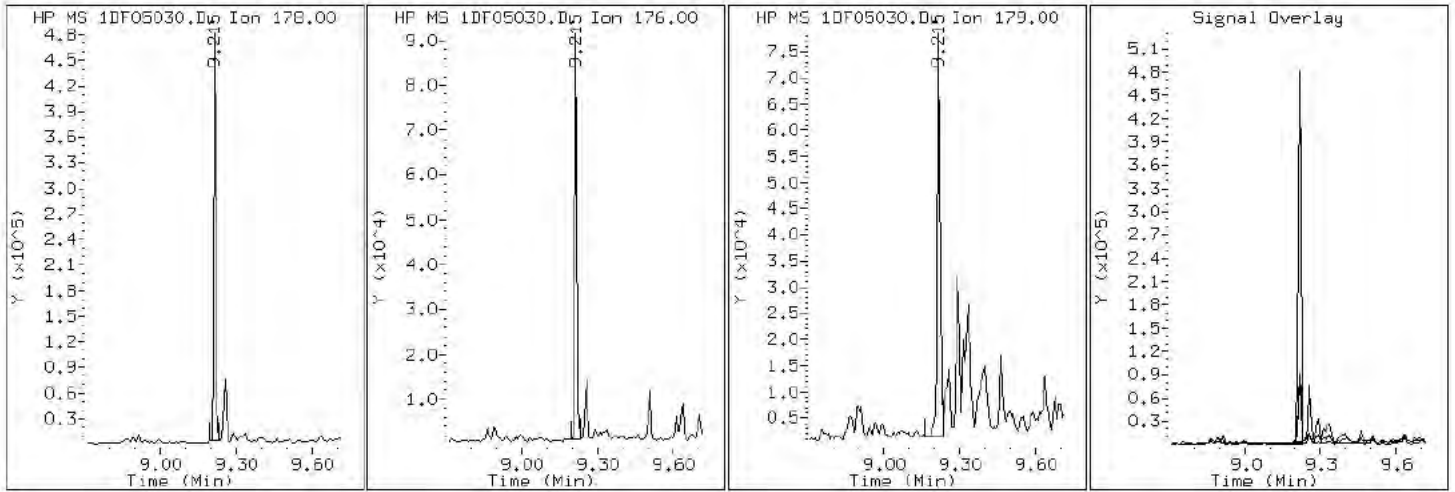
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05030.D

Date: 05-JUN-2013 22:04

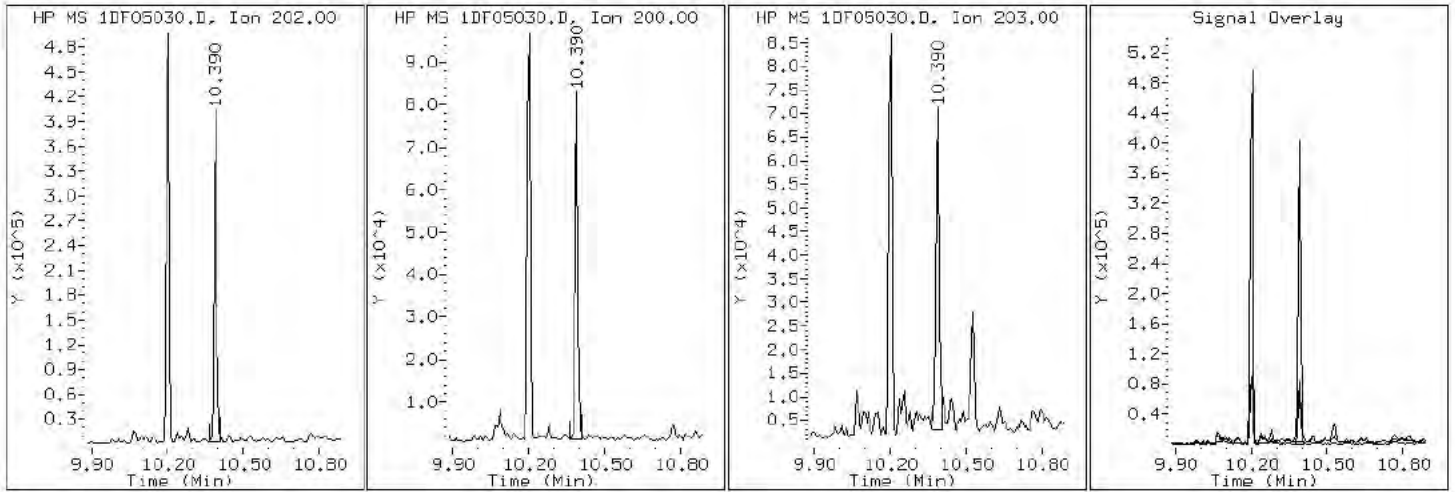
Client ID: CV0696A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-6-a

Operator: SCC

17 Pyrene



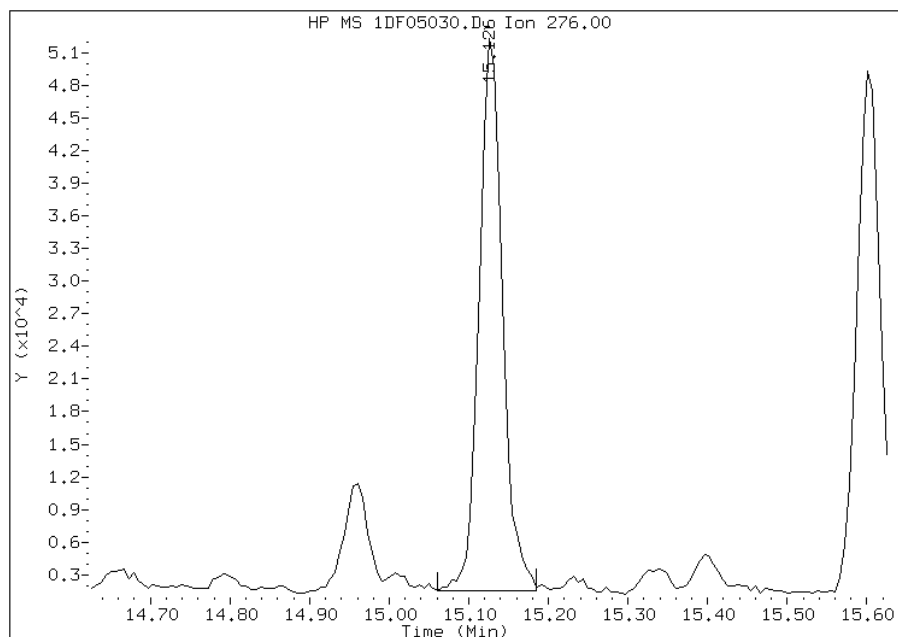


# Manual Integration Report

Data File: 1DF05030.D  
Inj. Date and Time: 05-JUN-2013 22:04  
Instrument ID: BSMSD.i  
Client ID: CV0696A-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

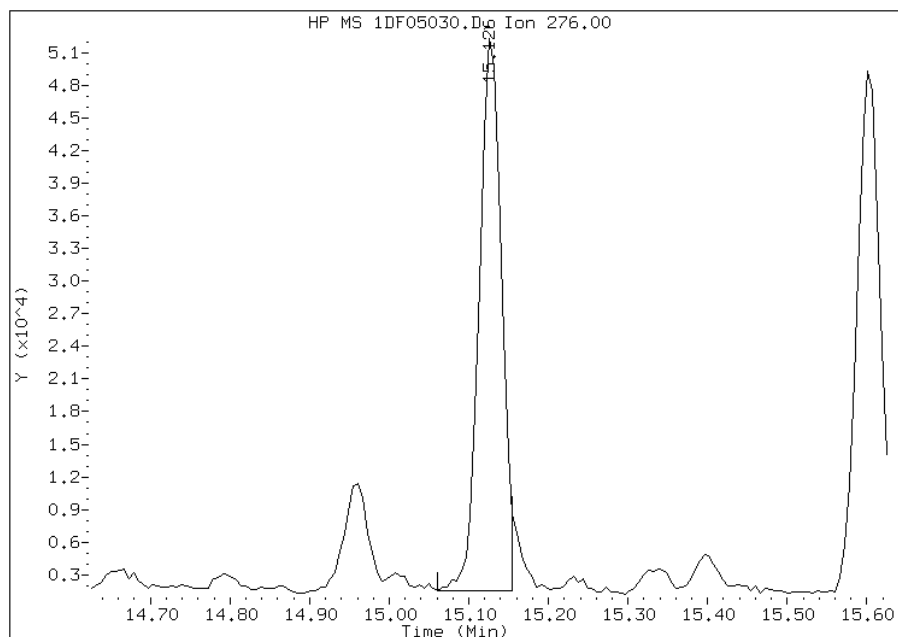
## Processing Integration Results

RT: 15.13  
Response: 103235  
Amount: 2  
Conc: 143



## Manual Integration Results

RT: 15.13  
Response: 98890  
Amount: 2  
Conc: 138



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:24  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0696A-CSD Lab Sample ID: 680-90852-7  
 Matrix: Solid Lab File ID: 1DF05031.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 12:40  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.05(g) Date Analyzed: 06/05/2013 22:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	29	J	48	6.0
120-12-7	Anthracene	76		10	5.1
56-55-3	Benzo[a]anthracene	250		9.7	4.7
50-32-8	Benzo[a]pyrene	250		13	6.3
205-99-2	Benzo[b]fluoranthene	480		15	7.4
191-24-2	Benzo[g,h,i]perylene	140		24	5.3
207-08-9	Benzo[k]fluoranthene	170		9.7	4.4
218-01-9	Chrysene	400		11	5.4
53-70-3	Dibenz(a,h)anthracene	52		24	5.0
206-44-0	Fluoranthene	560		24	4.8
86-73-7	Fluorene	36		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.6
90-12-0	1-Methylnaphthalene	170		48	5.3
91-57-6	2-Methylnaphthalene	250		48	8.6
91-20-3	Naphthalene	200		48	5.3
85-01-8	Phenanthrene	440		9.7	4.7
129-00-0	Pyrene	400		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05031.D  
 Lab Smp Id: 680-90852-A-7-A Client Smp ID: CV0696A-CSD  
 Inj Date : 05-JUN-2013 22:27  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-7-a  
 Misc Info : 680-90852-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.050	Weight Extracted
M	17.605	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.269	6.265	(1.000)	2829394	40.0000	
* 7 Acenaphthene-d10	164		7.938	7.934	(1.000)	1566101	40.0000	
* 11 Phenanthrene-d10	188		9.201	9.191	(1.000)	2475536	40.0000	
\$ 15 o-Terphenyl	230		9.507	9.503	(1.033)	248219	6.84416	550
* 19 Chrysene-d12	240		11.569	11.553	(1.000)	2643382	40.0000	
* 24 Perylene-d12	264		13.484	13.457	(1.000)	2362950	40.0000	
2 Naphthalene	128		6.293	6.289	(1.004)	176655	2.53181	200
3 2-Methylnaphthalene	142		6.992	6.988	(1.115)	135370	3.04706	240
4 1-Methylnaphthalene	142		7.080	7.076	(1.129)	95243	2.08242	170
5 1,1'-Biphenyl	154		7.427	7.423	(0.936)	33676	0.63646	51
6 Acenaphthylene	152		7.814	7.811	(0.984)	23560	0.36284	29
8 Acenaphthene	154		7.967	7.963	(1.004)	11695	0.28392	23(Q)
9 Dibenzofuran	168		8.114	8.110	(1.022)	49587	0.87306	70
10 Fluorene	166		8.408	8.404	(1.059)	20834	0.44702	36

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.219	9.215 (1.002)		362459	5.40615	440
13 Anthracene	178	9.260	9.256 (1.006)		61266	0.94179	76
16 Fluoranthene	202	10.200	10.196 (1.109)		473548	6.90402	560
17 Pyrene	202	10.388	10.384 (0.898)		385541	4.98167	400
18 Benzo(a)anthracene	228	11.557	11.542 (0.999)		241273	3.07551	250
20 Chrysene	228	11.592	11.583 (1.002)		347593	4.92045	400
21 Benzo(b)fluoranthene	252	12.914	12.893 (0.958)		350593	5.92246	480
22 Benzo(k)fluoranthene	252	12.950	12.934 (0.960)		127695	2.05989	170
23 Benzo(a)pyrene	252	13.384	13.363 (0.993)		177192	3.12197	250
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.102 (1.122)		92904	1.66064	130(M)
26 Dibenzo(a,h)anthracene	278	15.165	15.137 (1.125)		32485	0.64719	52
27 Benzo(g,h,i)perylene	276	15.611	15.572 (1.158)		94349	1.75847	140

QC Flag Legend

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

Data File: 1DF05031.D

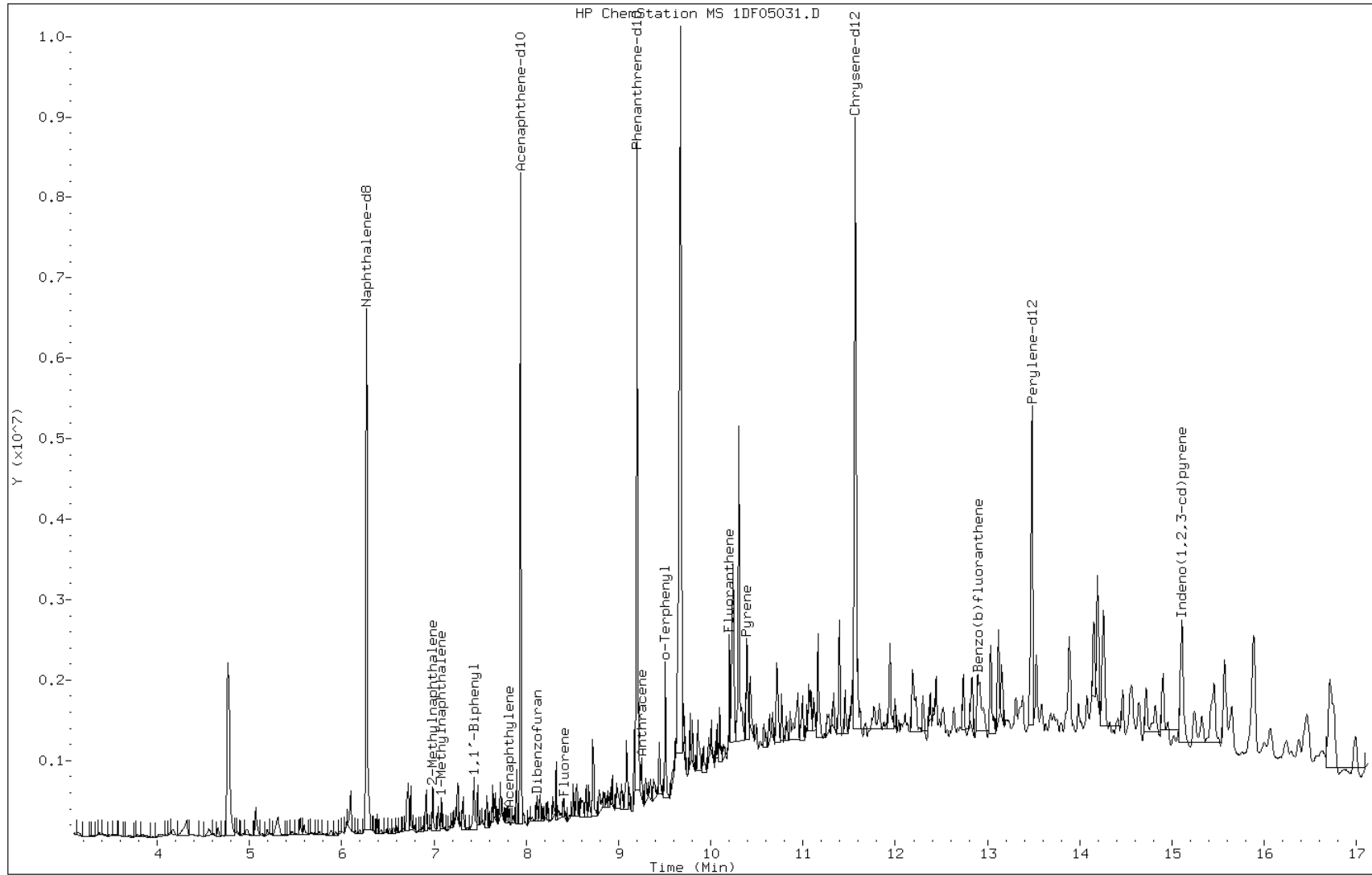
Date: 05-JUN-2013 22:27

Client ID: CV0696A-CSD

Sample Info: 680-90852-a-7-a

Instrument: BSMSD.i

Operator: SCC



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

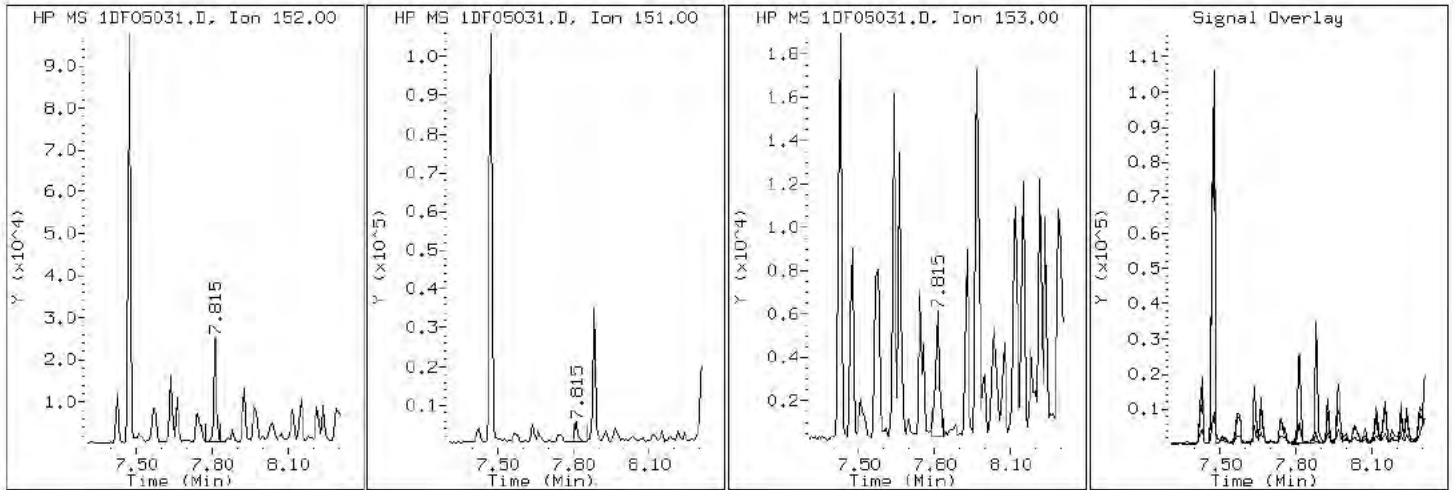
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

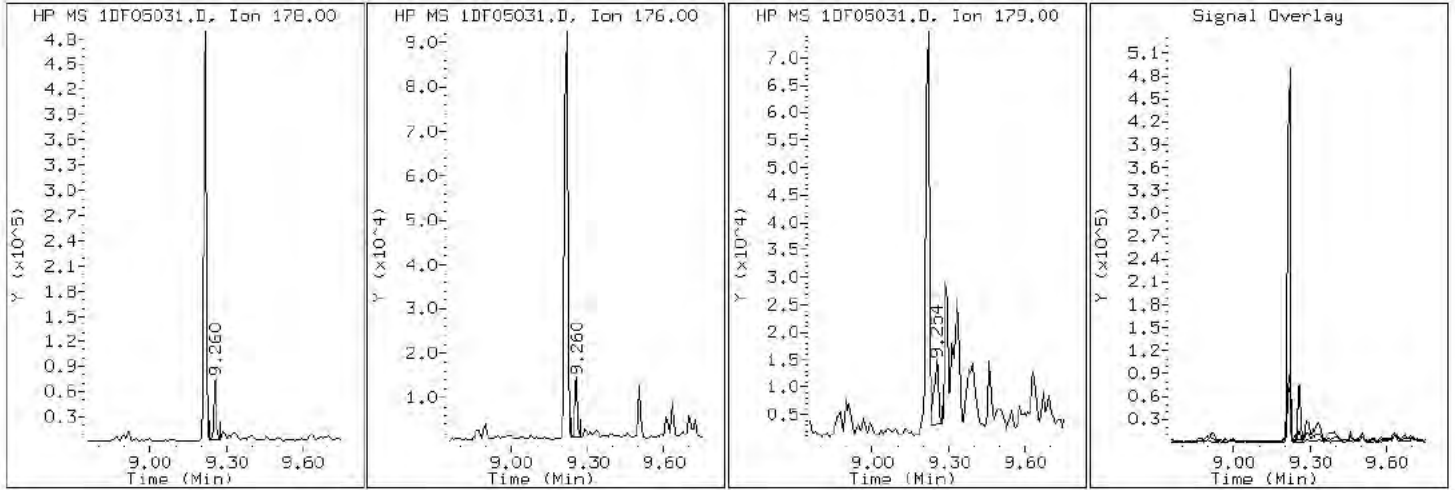
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

13 Anthracene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

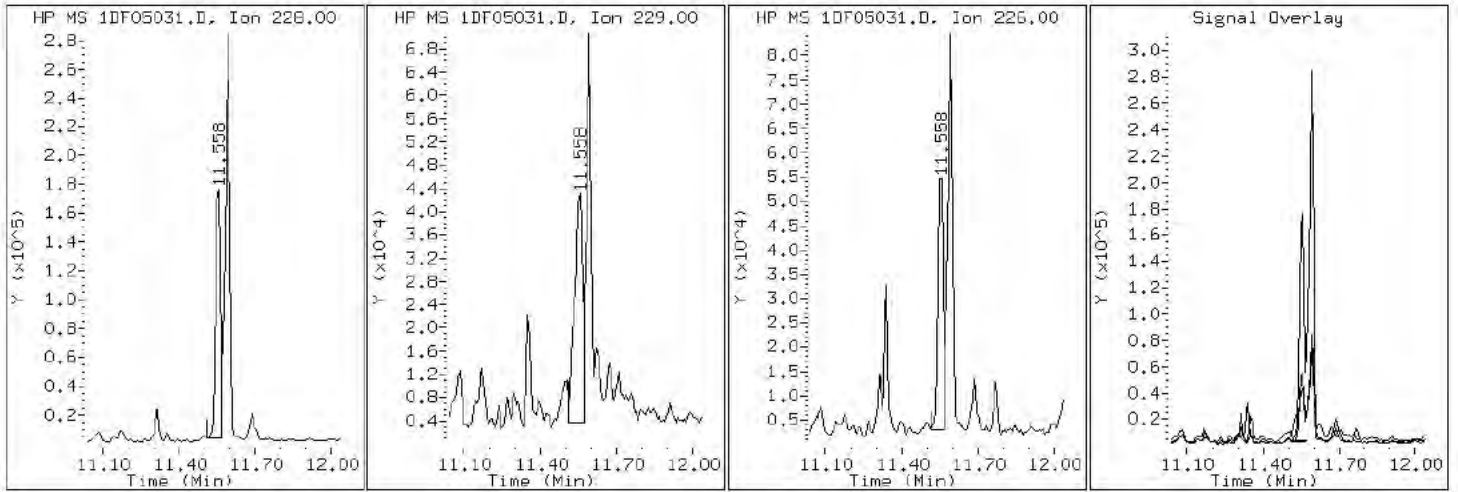
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

18 Benzo(a)anthracene





Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

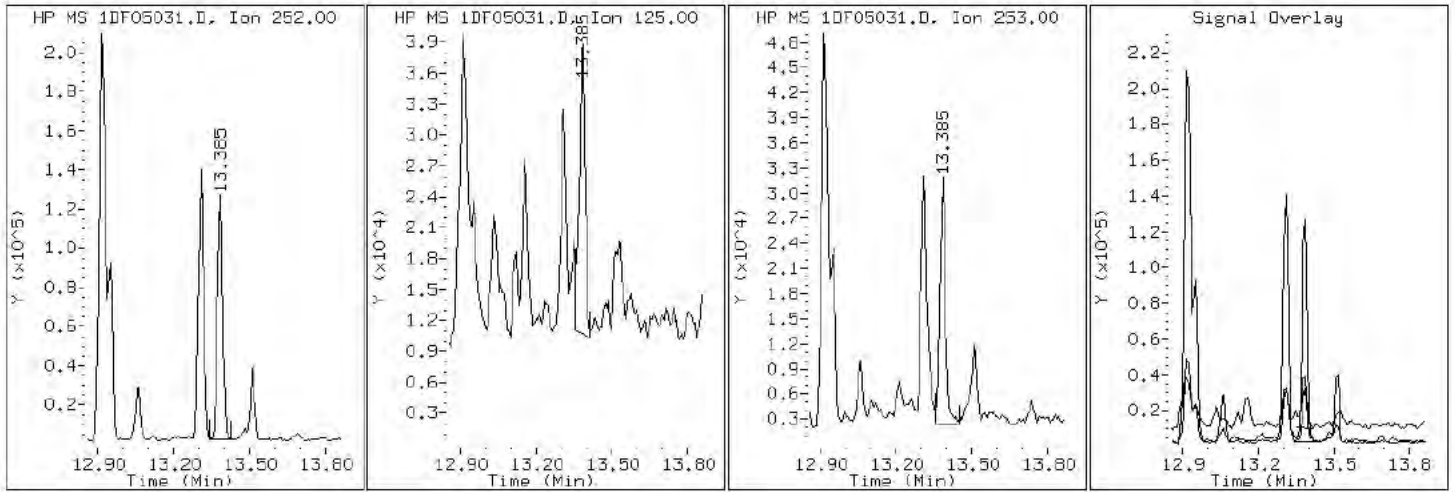
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

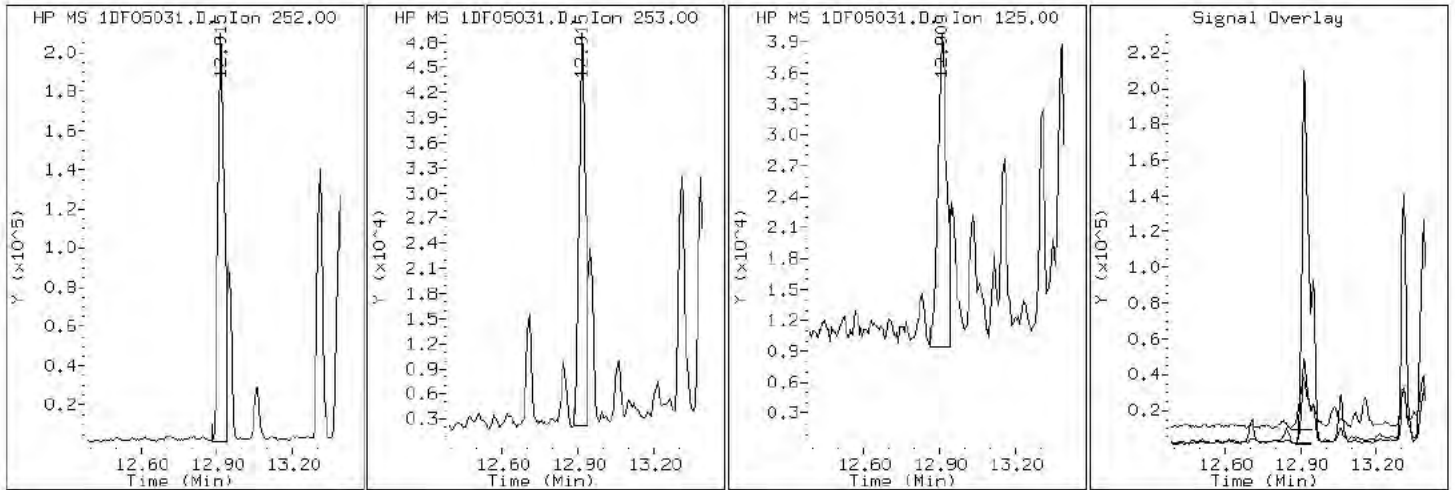
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

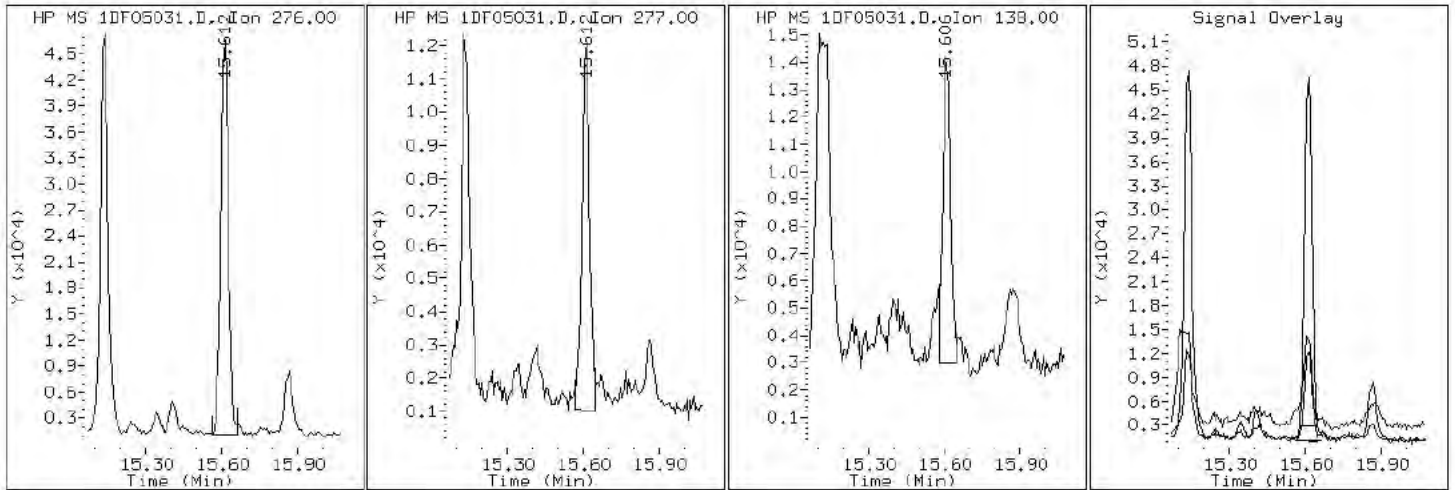
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

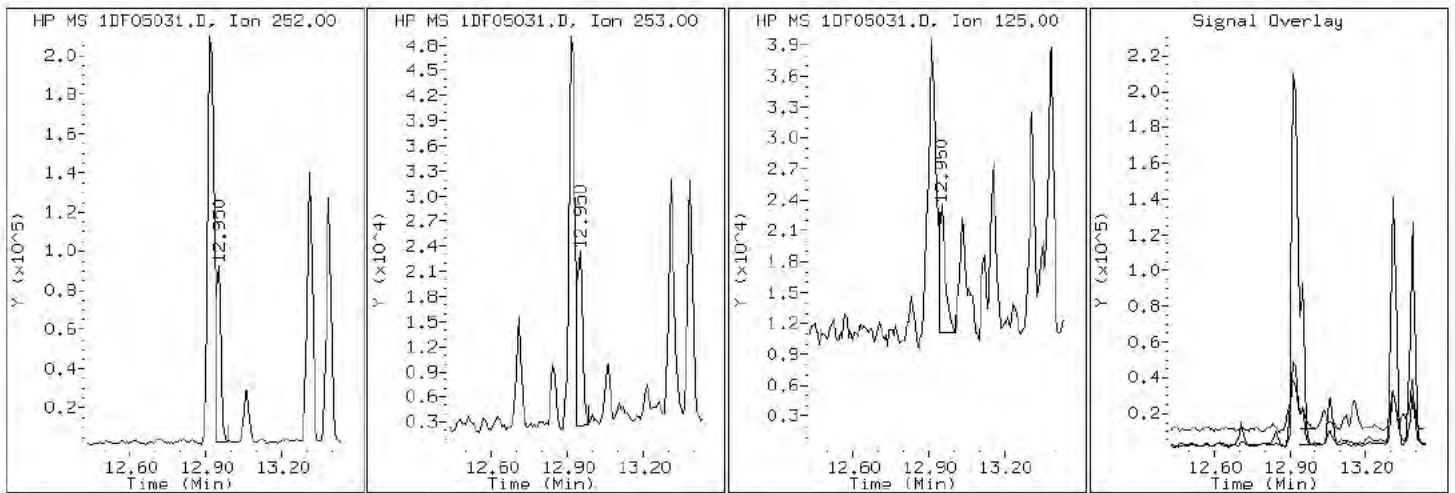
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

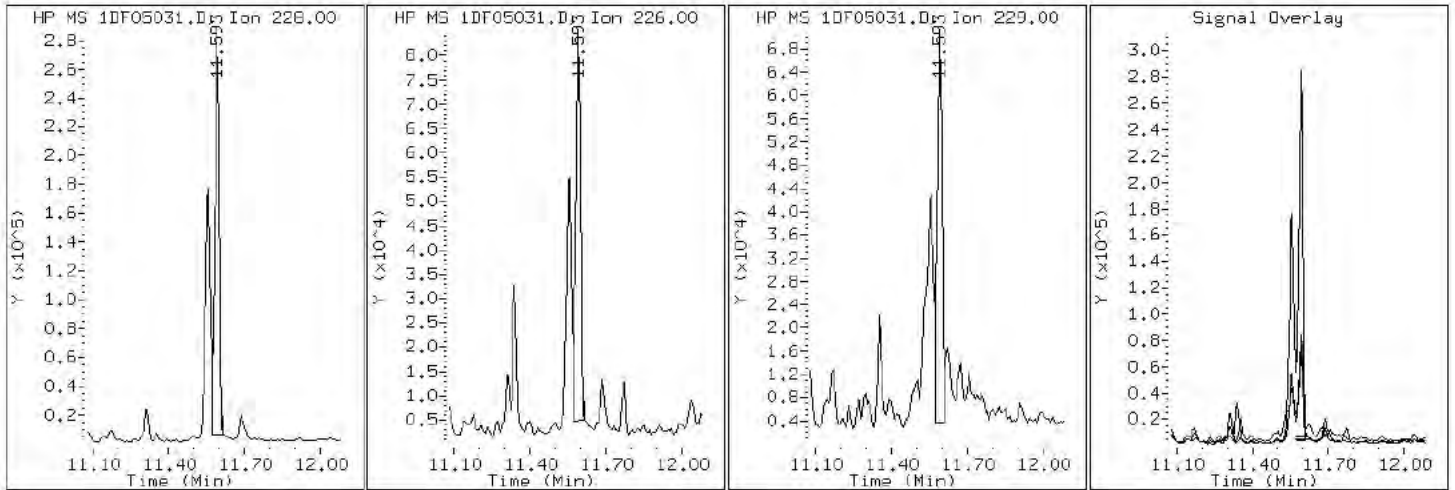
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

20 Chrysene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

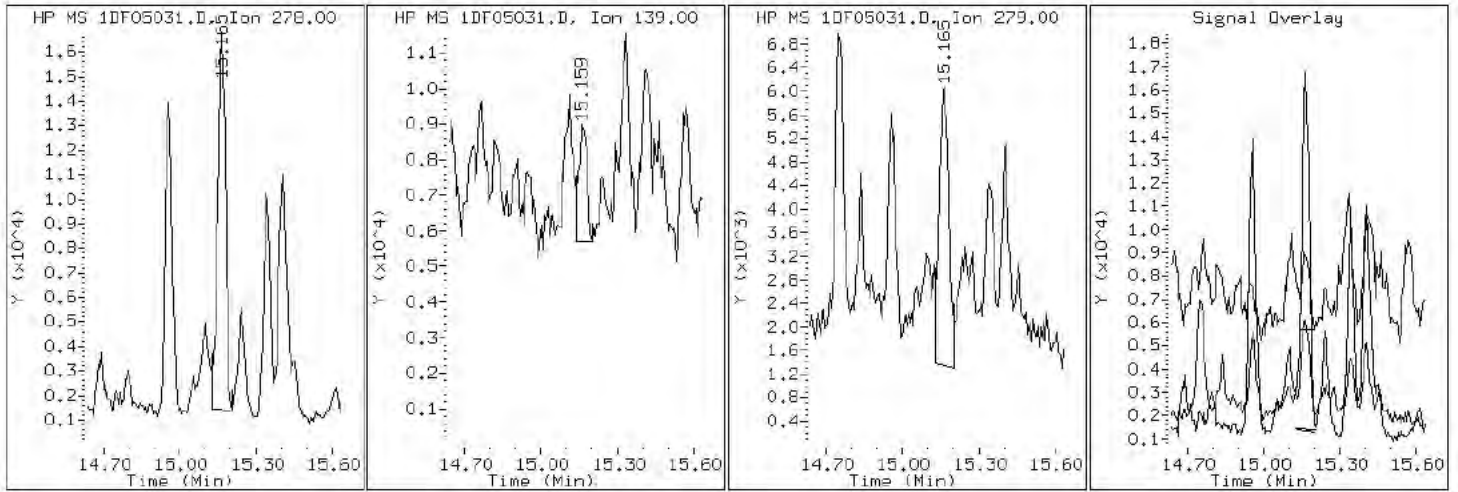
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

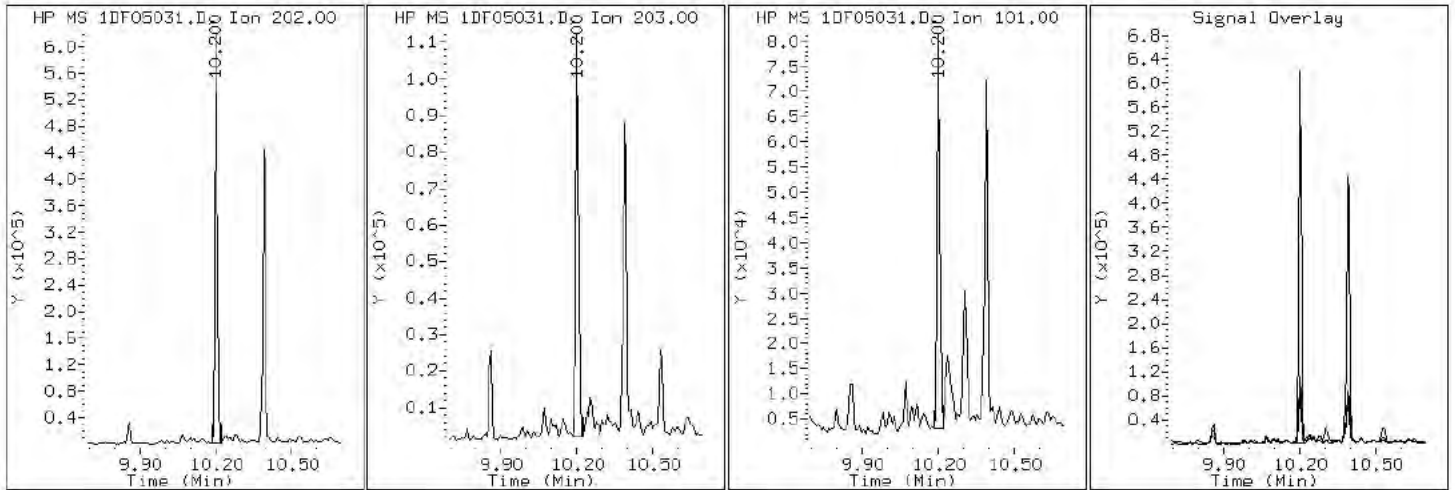
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

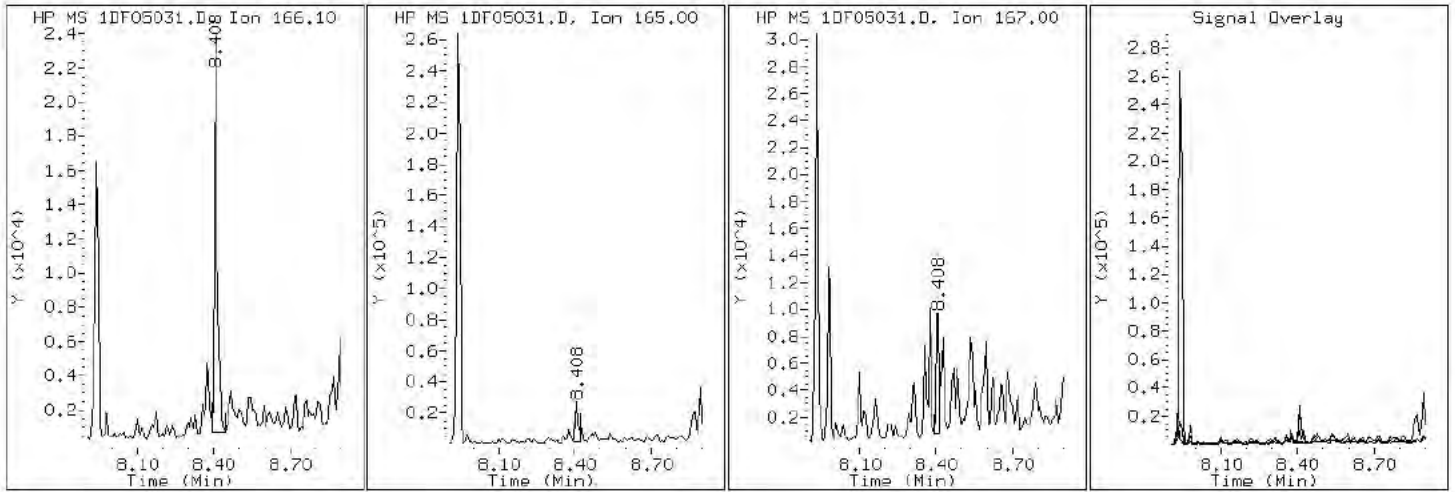
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

10 Fluorene





Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

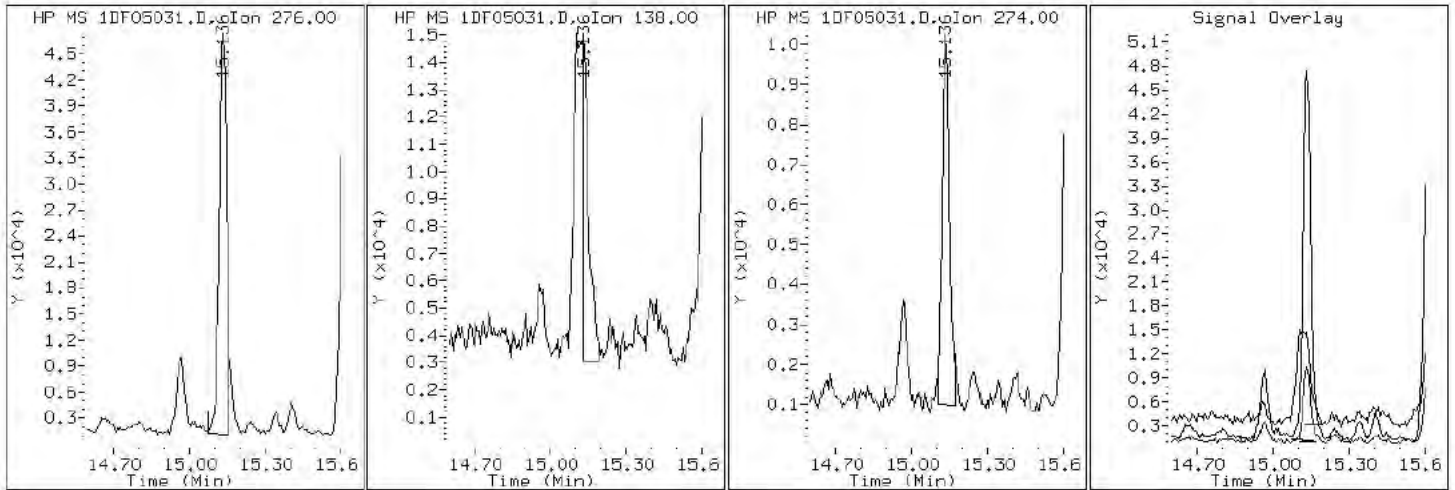
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

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



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

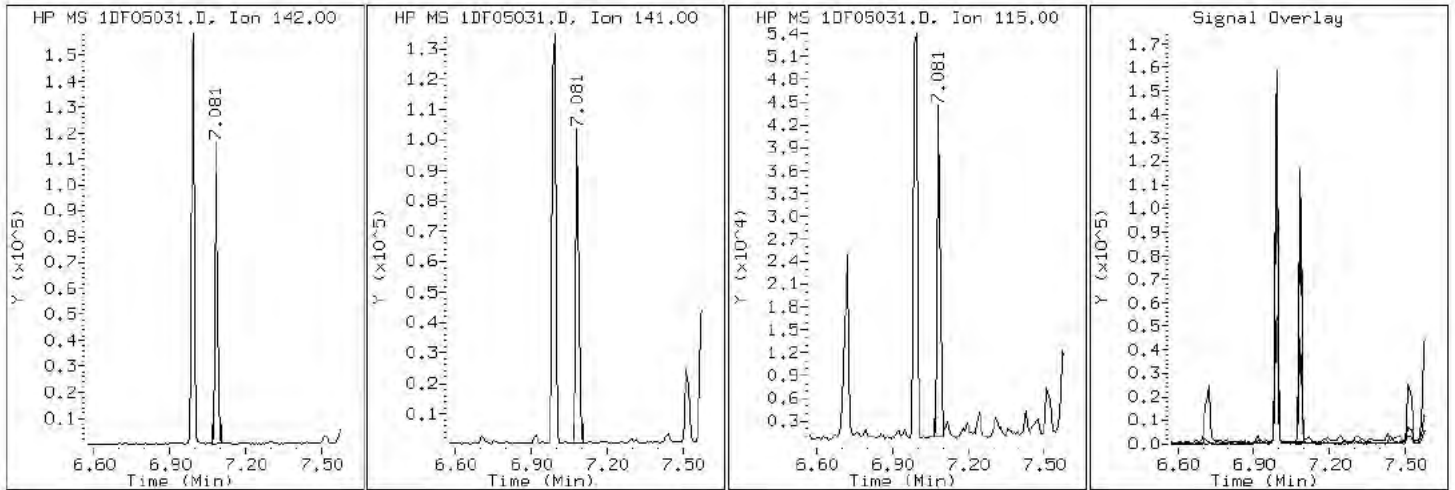
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

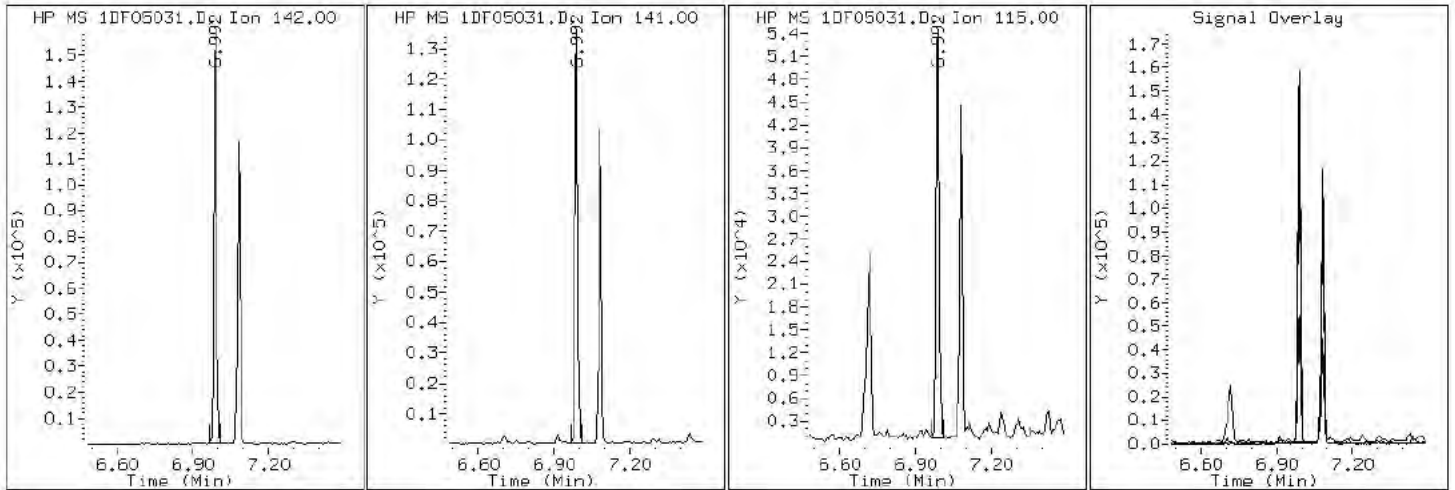
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

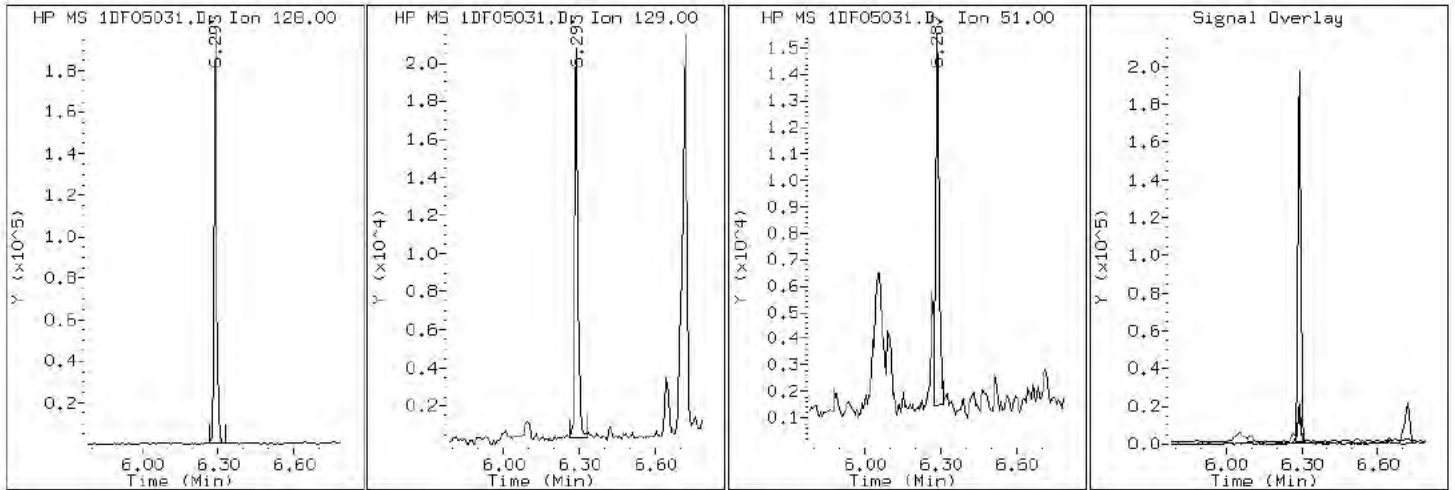
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

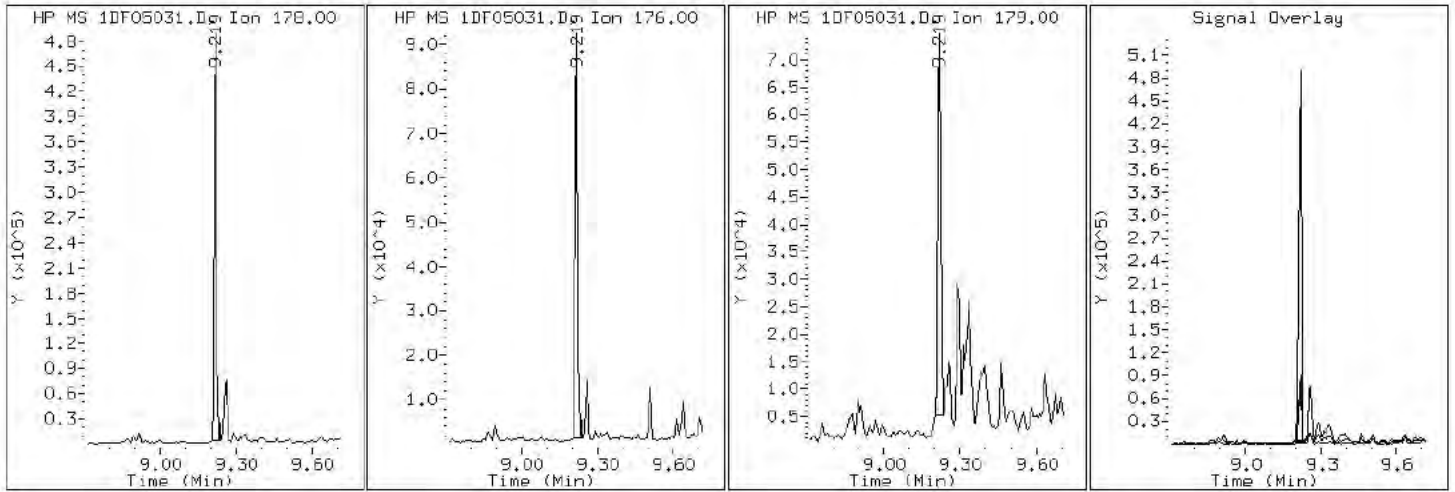
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05031.D

Date: 05-JUN-2013 22:27

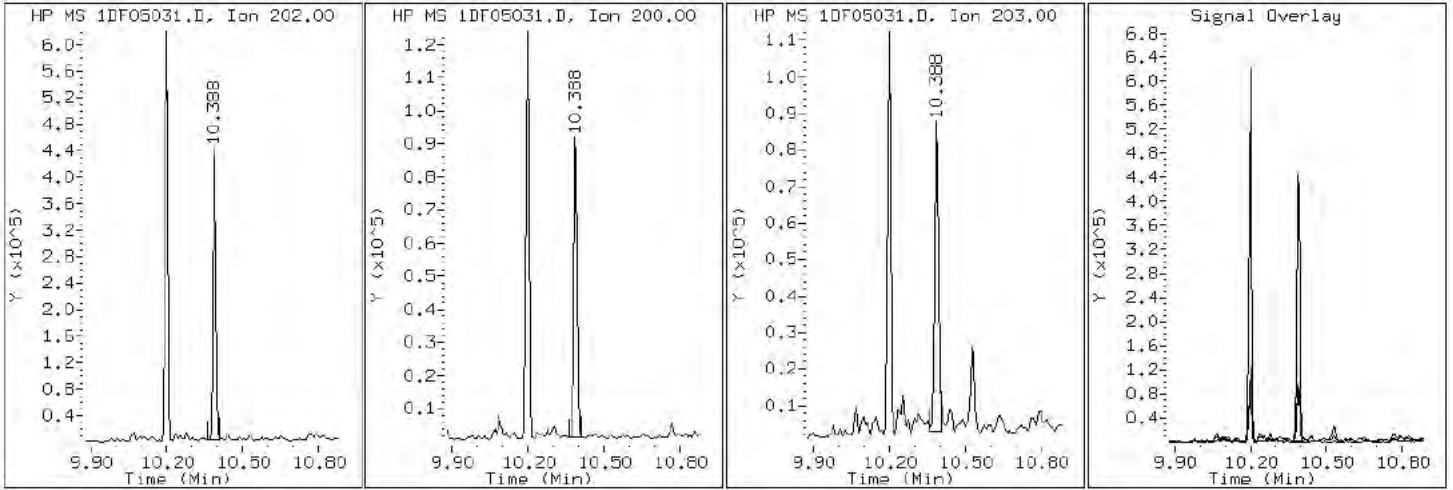
Client ID: CV0696A-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-7-a

Operator: SCC

17 Pyrene

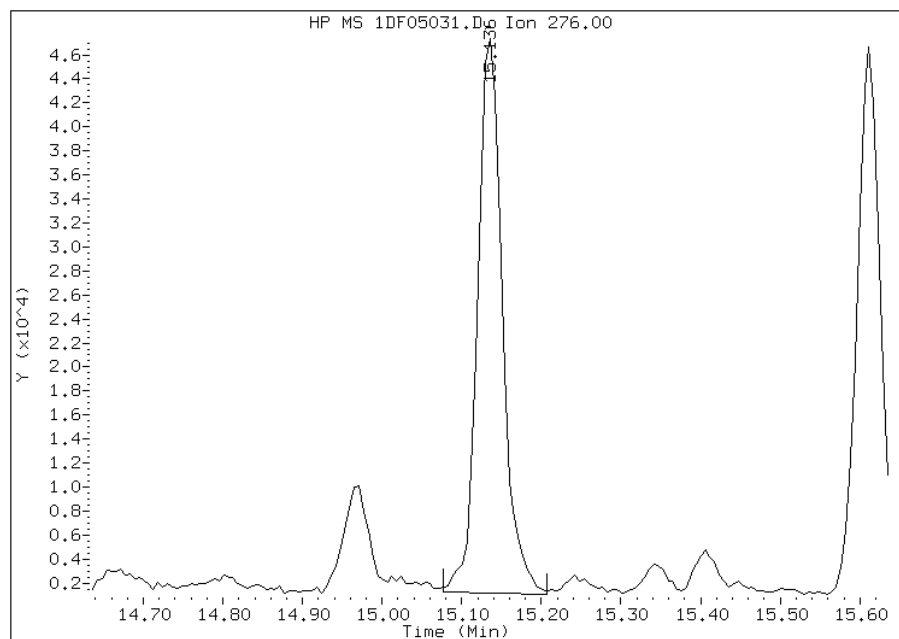


# Manual Integration Report

Data File: 1DF05031.D  
Inj. Date and Time: 05-JUN-2013 22:27  
Instrument ID: BSMSD.i  
Client ID: CV0696A-CSD  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

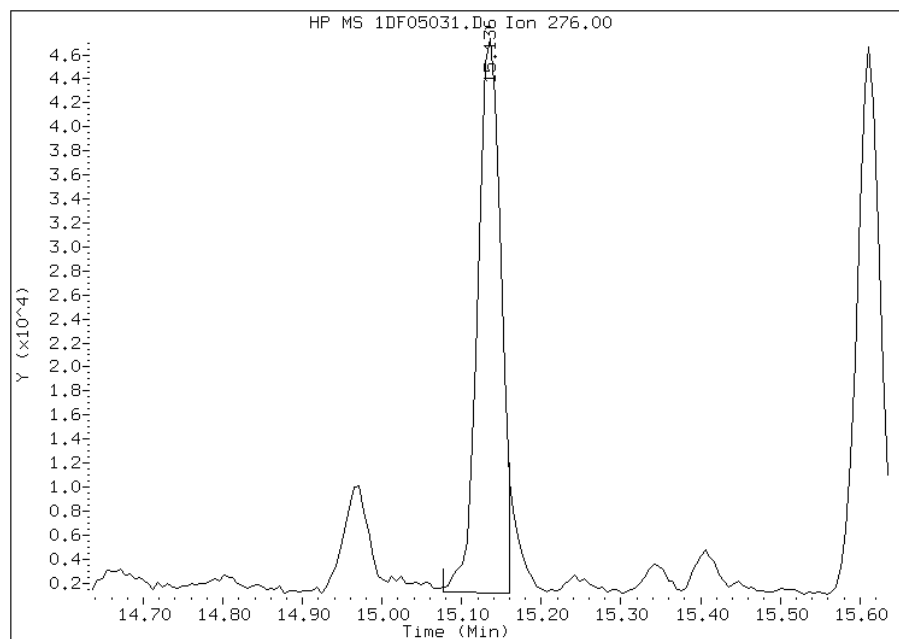
## Processing Integration Results

RT: 15.14  
Response: 99671  
Amount: 2  
Conc: 143



## Manual Integration Results

RT: 15.14  
Response: 92904  
Amount: 2  
Conc: 134



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:25  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0696B-CS Lab Sample ID: 680-90852-8  
 Matrix: Solid Lab File ID: 1DF05032.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 12:50  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.00(g) Date Analyzed: 06/05/2013 22:49  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	16	J	51	6.4
120-12-7	Anthracene	26		11	5.4
56-55-3	Benzo[a]anthracene	83		10	5.0
50-32-8	Benzo[a]pyrene	98		13	6.7
205-99-2	Benzo[b]fluoranthene	190		16	7.8
191-24-2	Benzo[g,h,i]perylene	63		26	5.6
207-08-9	Benzo[k]fluoranthene	53		10	4.6
218-01-9	Chrysene	180		12	5.8
53-70-3	Dibenz(a,h)anthracene	28		26	5.3
206-44-0	Fluoranthene	150		26	5.1
86-73-7	Fluorene	15	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	64		26	9.1
90-12-0	1-Methylnaphthalene	110		51	5.6
91-57-6	2-Methylnaphthalene	160		51	9.1
91-20-3	Naphthalene	170		51	5.6
85-01-8	Phenanthrene	200		10	5.0
129-00-0	Pyrene	110		26	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05032.D  
 Lab Smp Id: 680-90852-A-8-A Client Smp ID: CV0696B-CS  
 Inj Date : 05-JUN-2013 22:49  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-8-a  
 Misc Info : 680-90852-A-8-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.000	Weight Extracted
M	21.924	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.272	6.265	(1.000)	3053855	40.0000	
* 7 Acenaphthene-d10	164	7.941	7.934	(1.000)	1687898	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.191	(1.000)	2629589	40.0000	
\$ 15 o-Terphenyl	230	9.510	9.503	(1.034)	229685	5.96210	510
* 19 Chrysene-d12	240	11.566	11.553	(1.000)	2751846	40.0000	
* 24 Perylene-d12	264	13.482	13.457	(1.000)	2507173	40.0000	
2 Naphthalene	128	6.290	6.289	(1.003)	153084	2.03273	170
3 2-Methylnaphthalene	142	6.989	6.988	(1.114)	90995	1.89767	160
4 1-Methylnaphthalene	142	7.083	7.076	(1.129)	60782	1.23128	100
5 1,1'-Biphenyl	154	7.424	7.423	(0.935)	23129	0.40558	35
6 Acenaphthylene	152	7.812	7.811	(0.984)	13022	0.18607	16
9 Dibenzofuran	168	8.117	8.110	(1.022)	34923	0.57051	49
10 Fluorene	166	8.411	8.404	(1.059)	9036	0.17989	15
12 Phenanthrene	178	9.216	9.215	(1.002)	170024	2.38738	200

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.257	9.256	(1.006)	21183	0.30655	26
16 Fluoranthene	202	10.203	10.196	(1.109)	129517	1.77765	150
17 Pyrene	202	10.391	10.384	(0.898)	100260	1.24442	110
18 Benzo(a)anthracene	228	11.554	11.542	(0.999)	79316	0.97119	83
20 Chrysene	228	11.590	11.583	(1.002)	153270	2.08414	180
21 Benzo(b)fluoranthene	252	12.912	12.893	(0.958)	143321	2.28181	190
22 Benzo(k)fluoranthene	252	12.947	12.934	(0.960)	41027	0.62375	53
23 Benzo(a)pyrene	252	13.376	13.363	(0.992)	64931	1.14268	98
25 Indeno(1,2,3-cd)pyrene	276	15.127	15.102	(1.122)	38838	0.74400	64(M)
26 Dibenzo(a,h)anthracene	278	15.162	15.137	(1.125)	15455	0.32989	28
27 Benzo(g,h,i)perylene	276	15.603	15.572	(1.157)	42222	0.74166	63

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05032.D

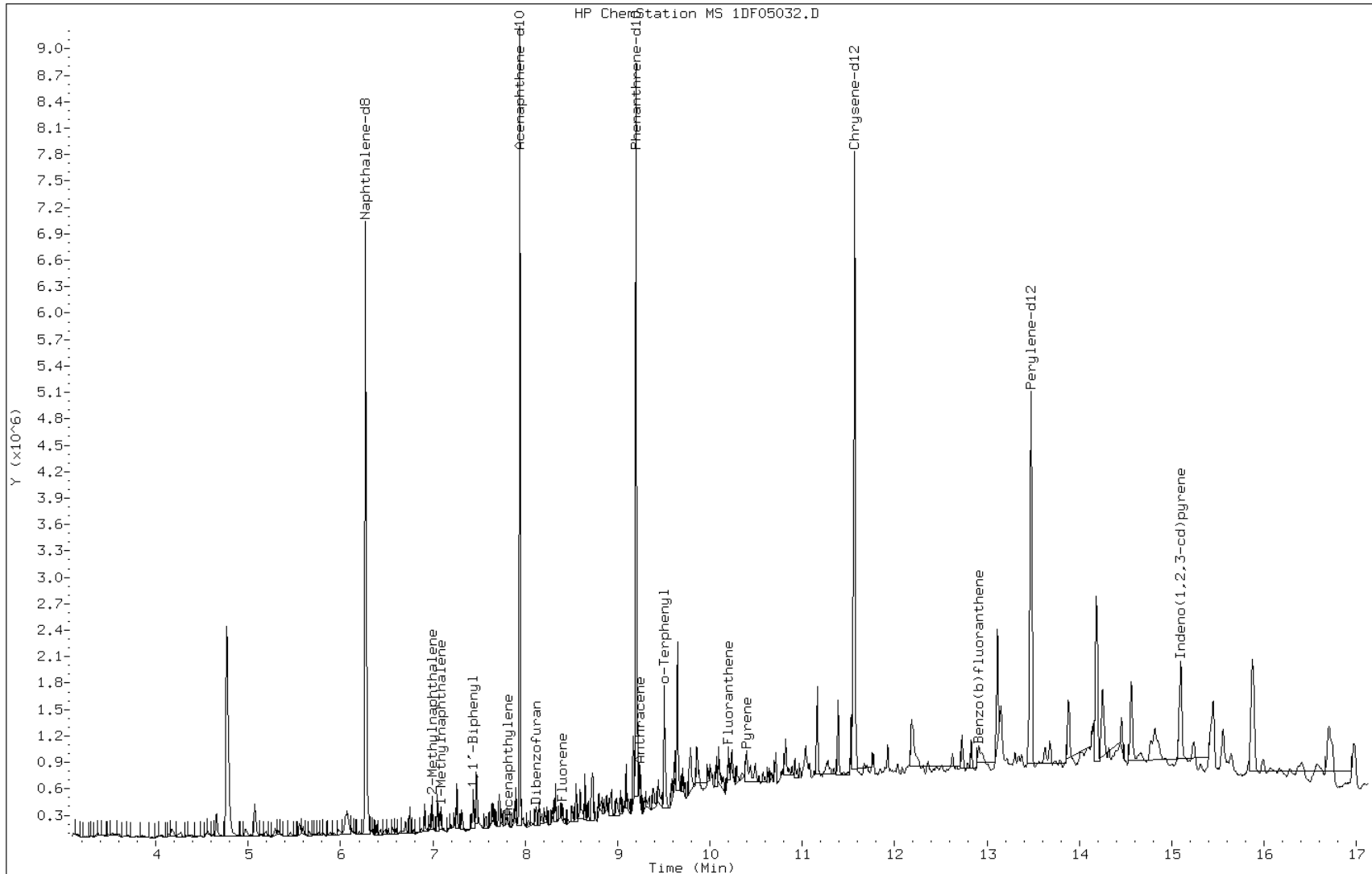
Date: 05-JUN-2013 22:49

Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

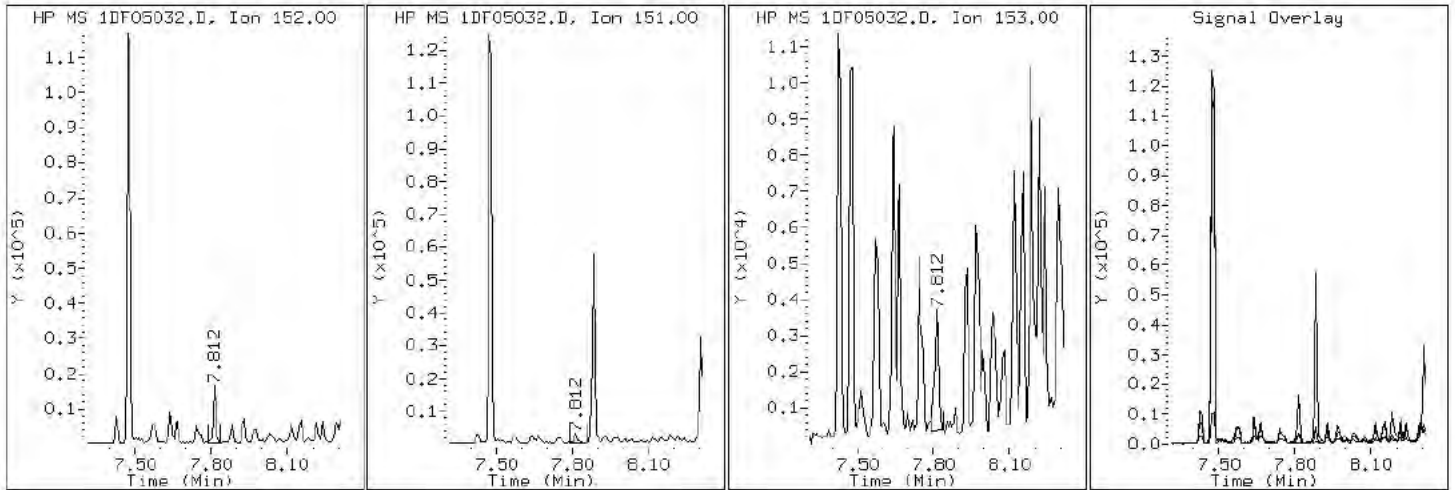
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

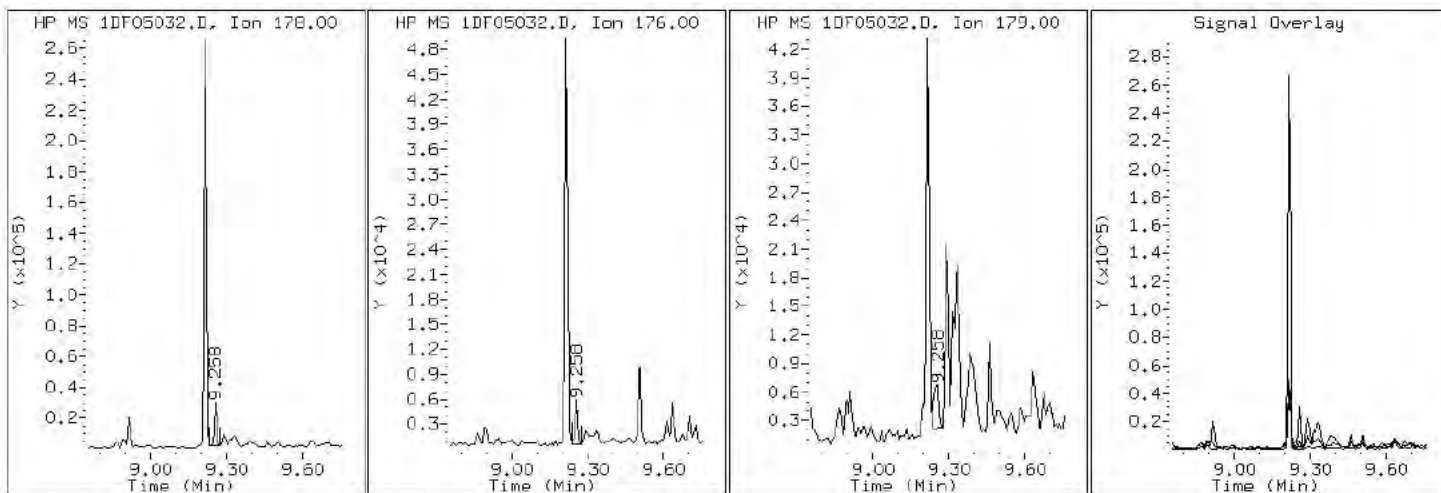
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

13 Anthracene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

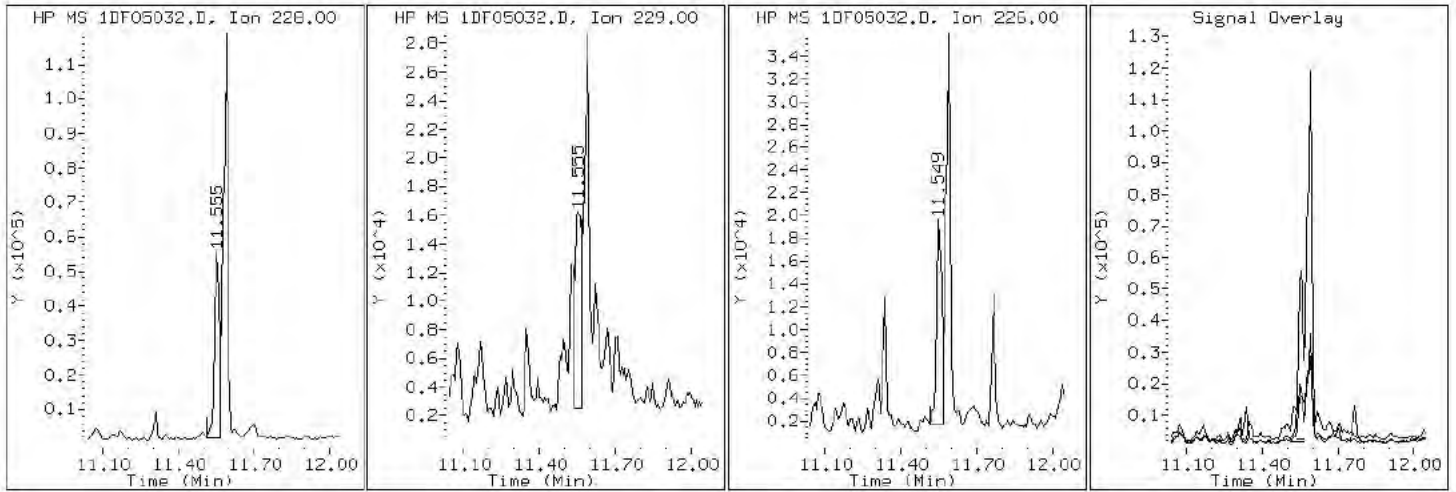
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

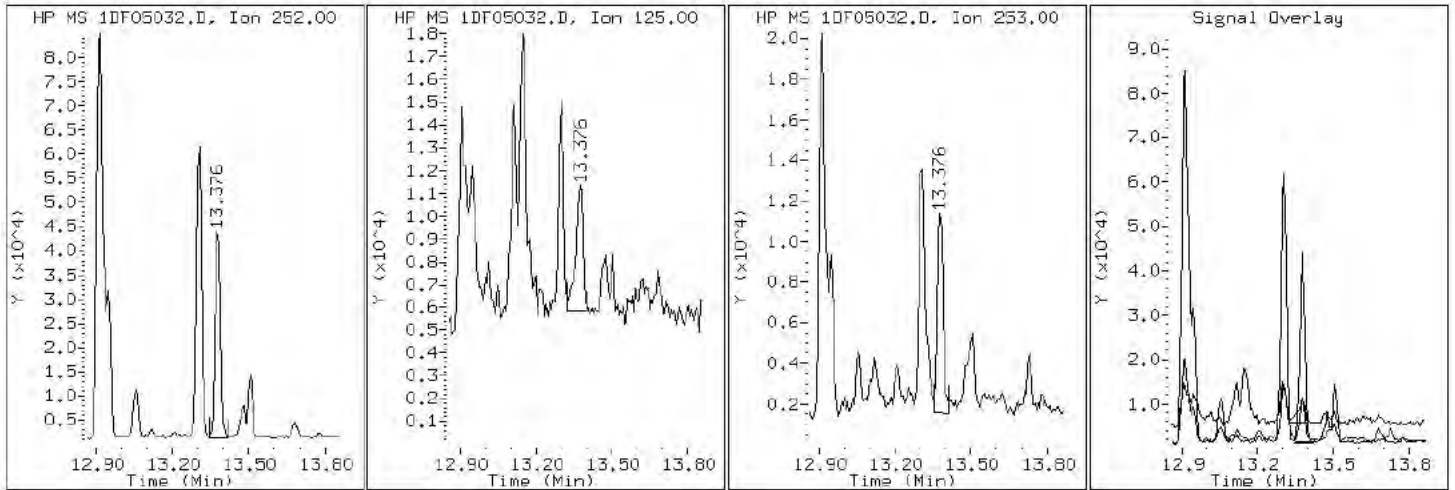
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

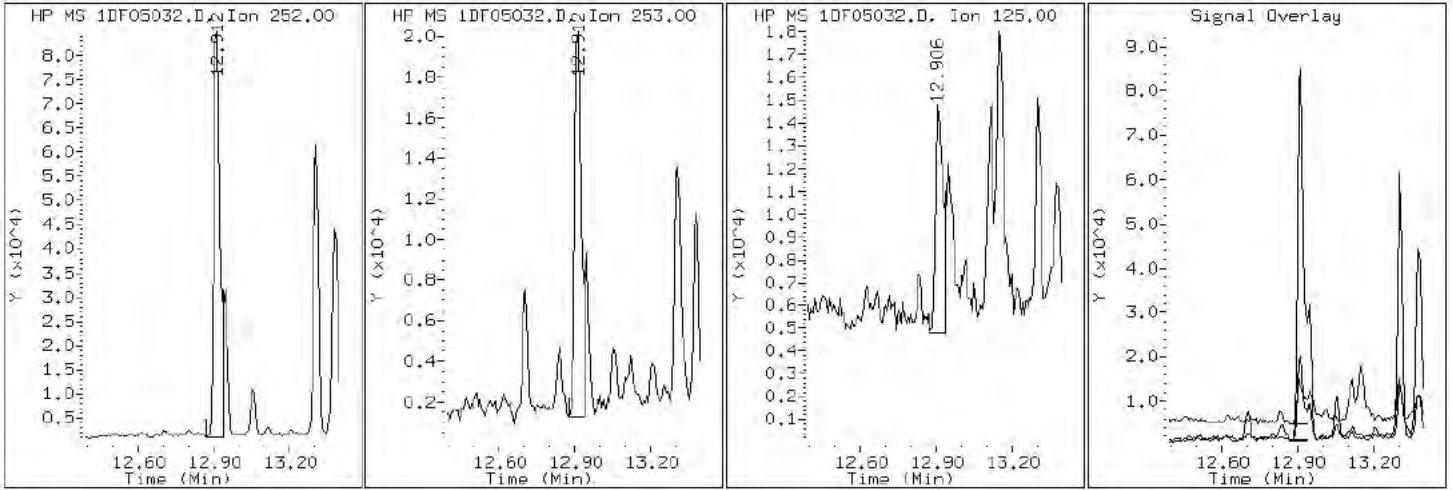
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

21 Benzo(b)fluoranthene





Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

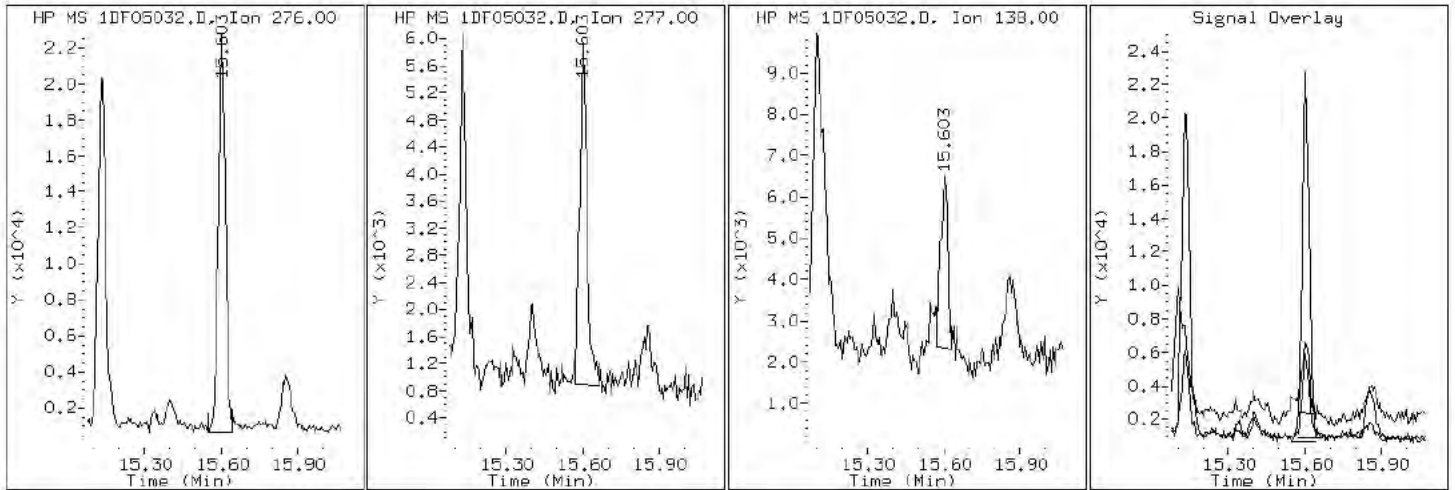
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

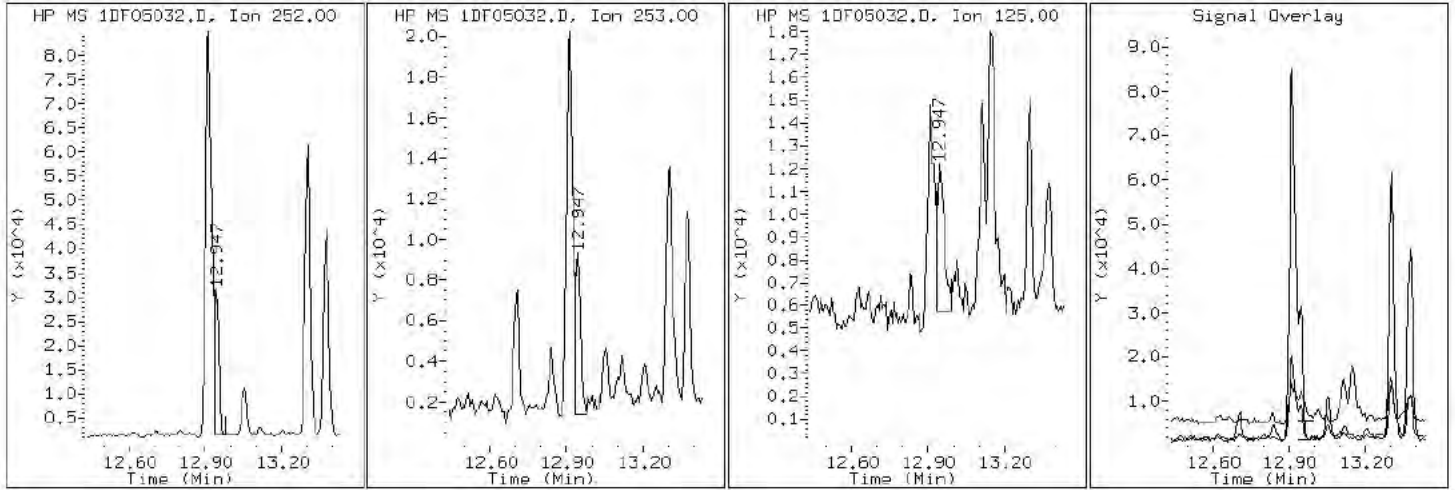
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

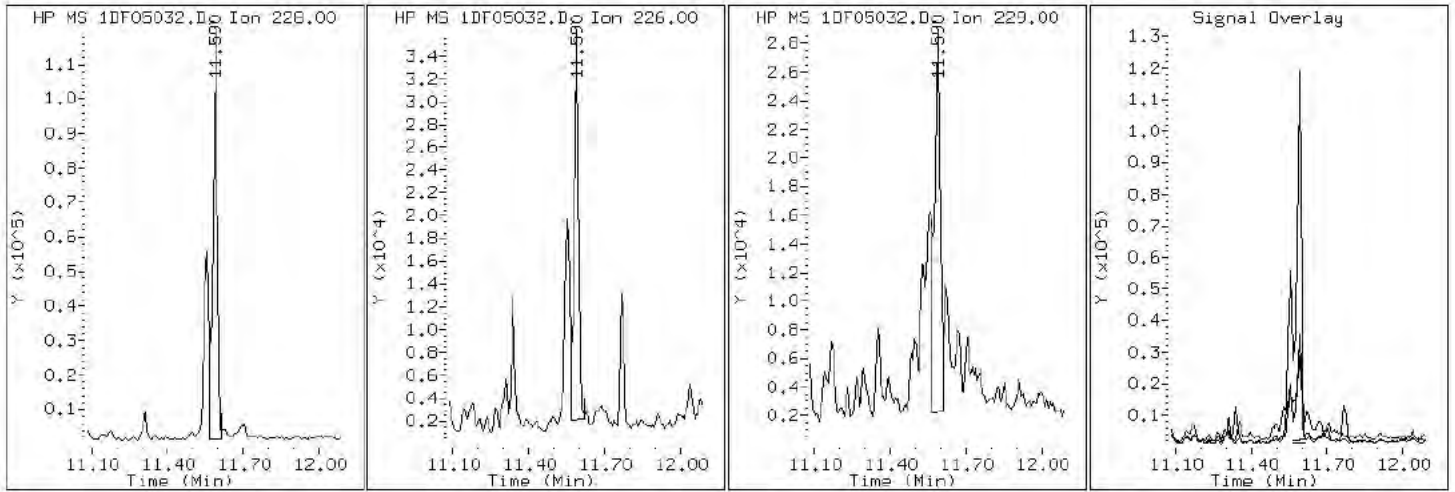
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

20 Chrysene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

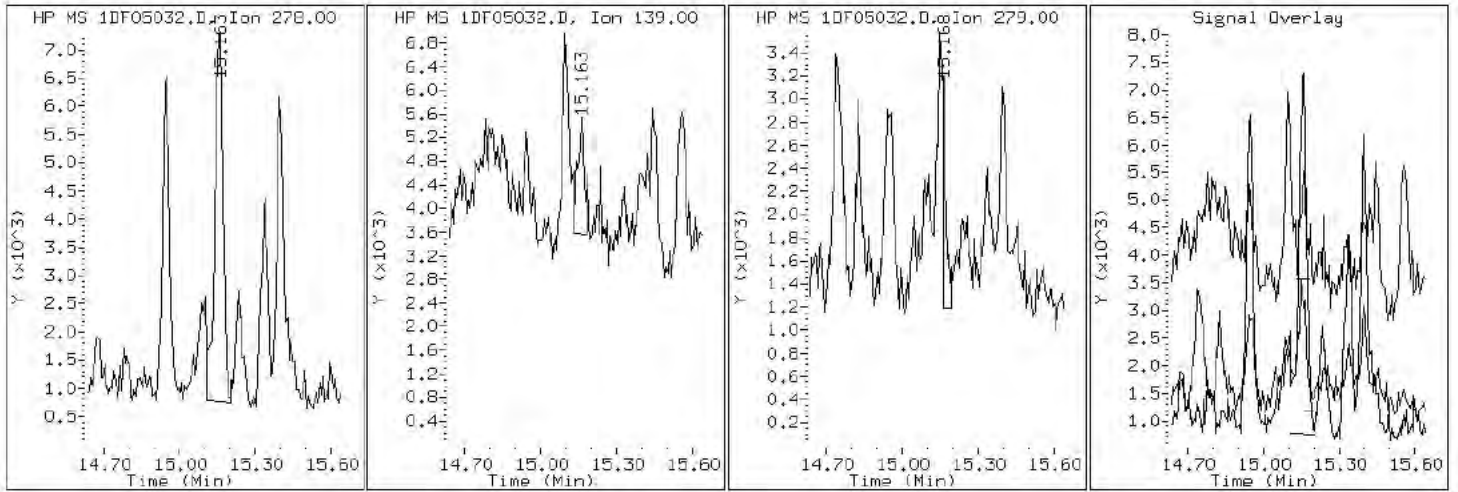
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

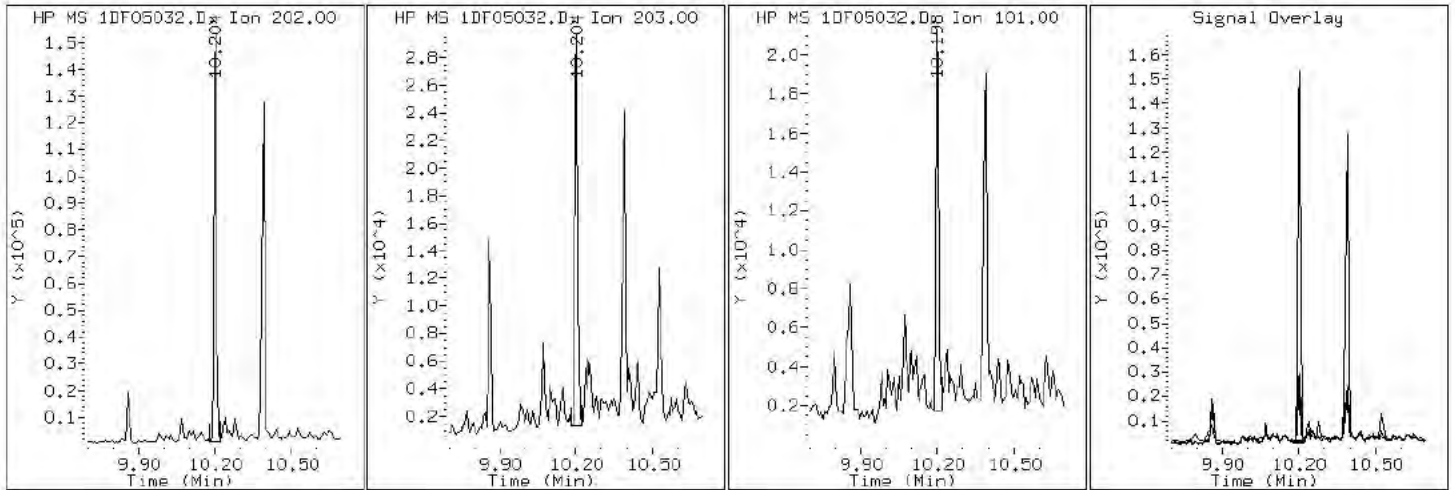
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

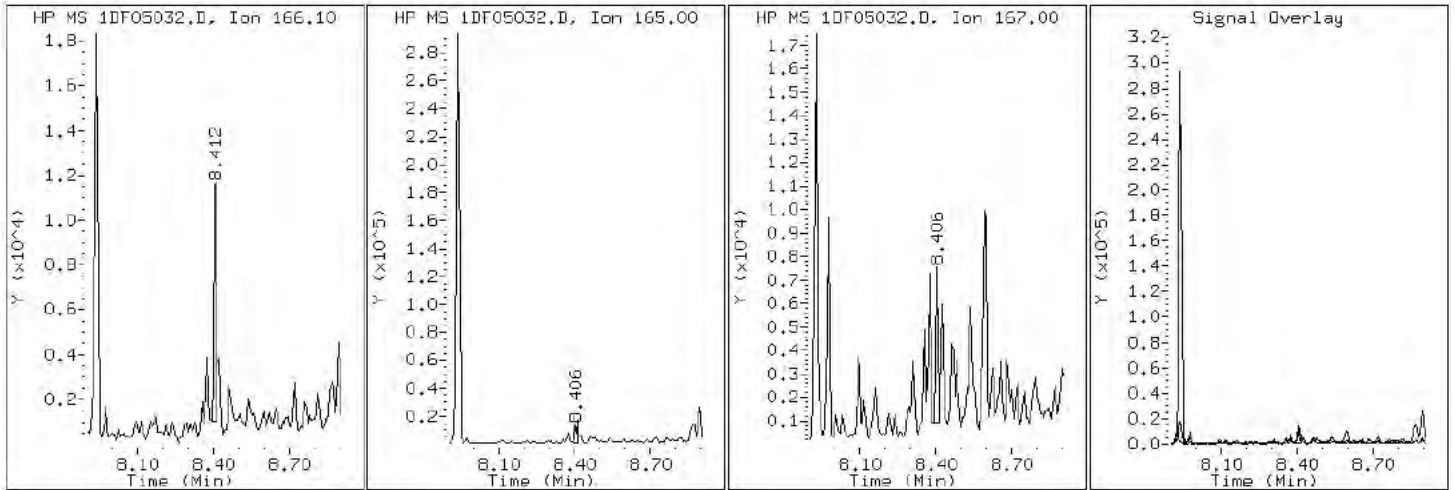
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

10 Fluorene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

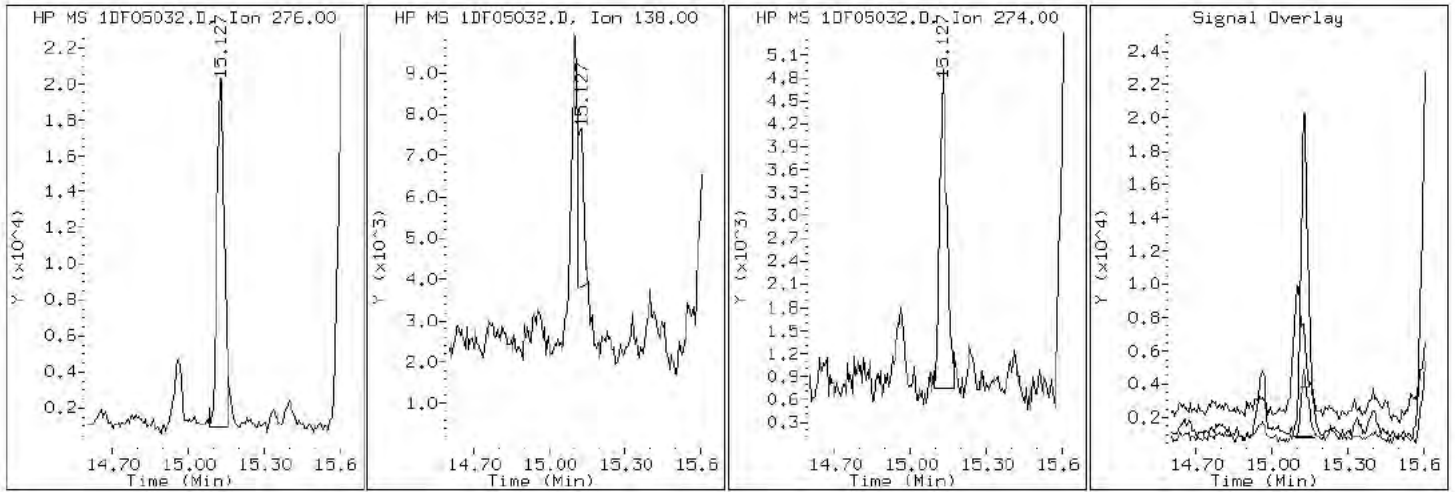
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

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



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

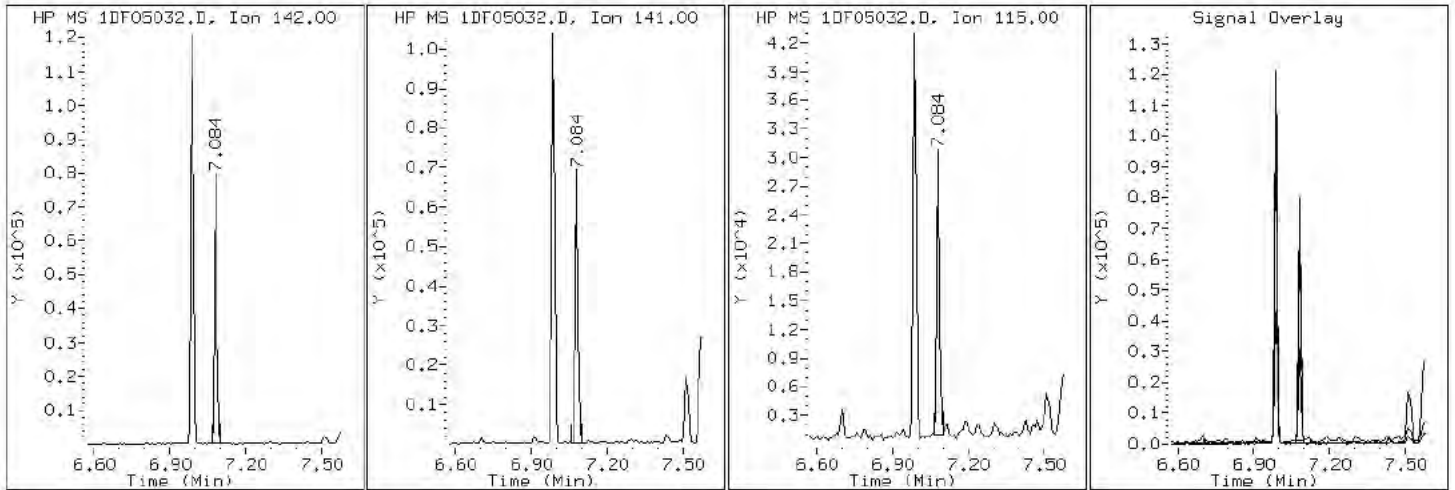
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

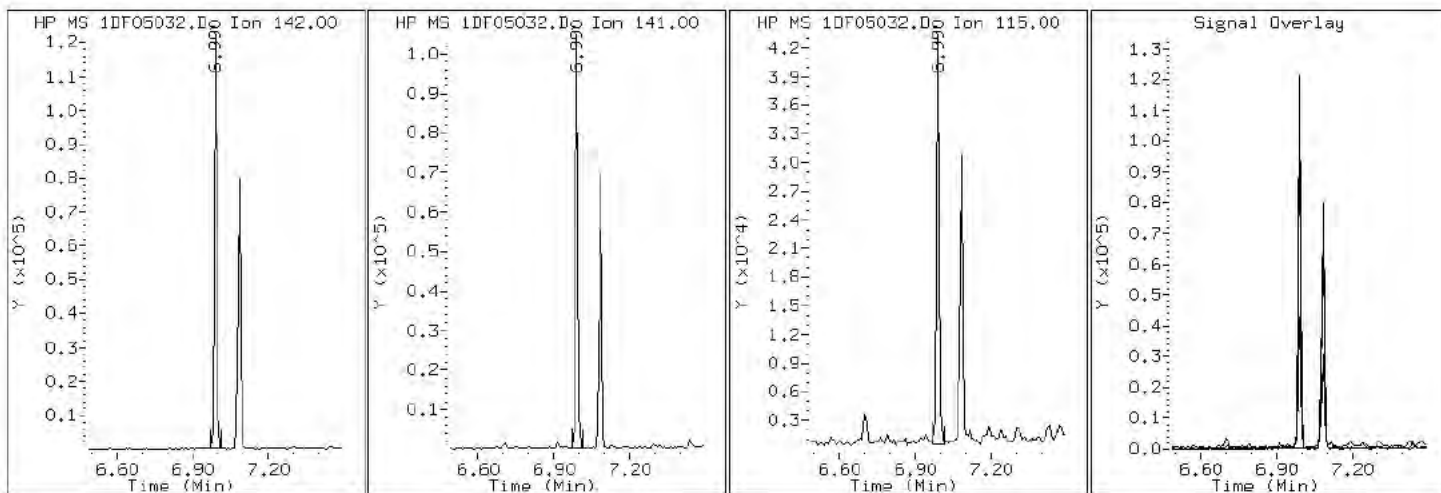
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

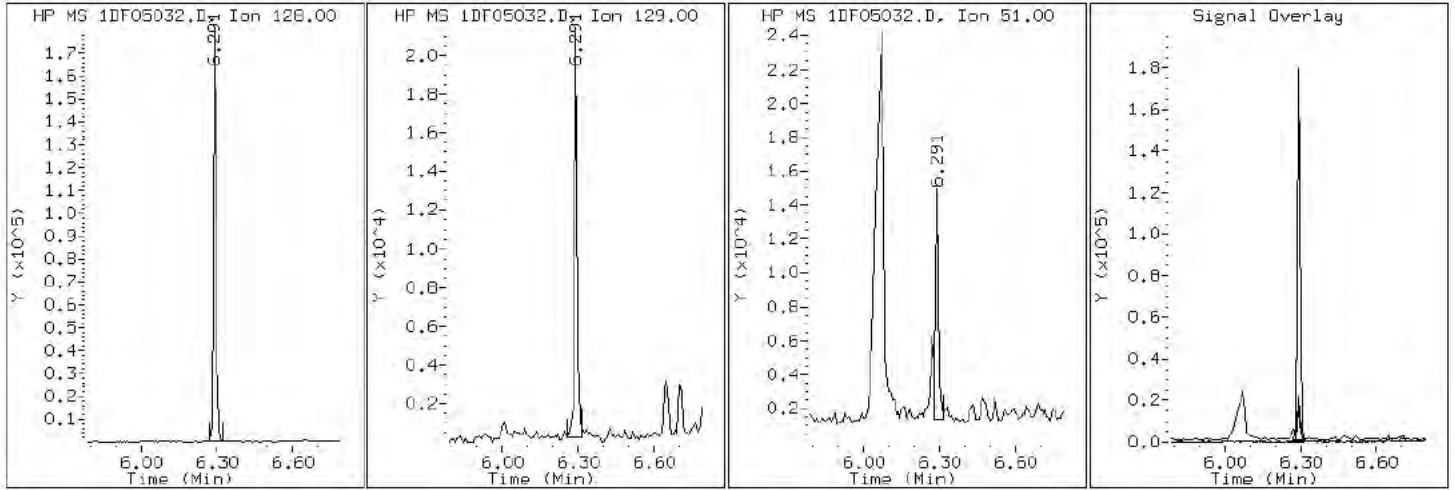
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

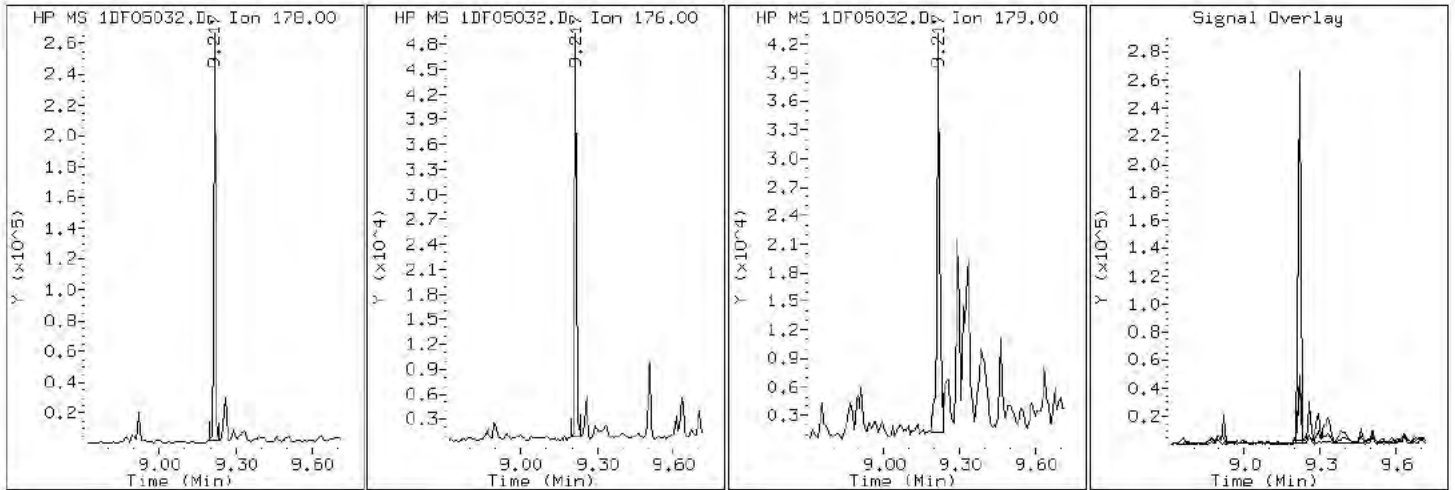
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05032.D

Date: 05-JUN-2013 22:49

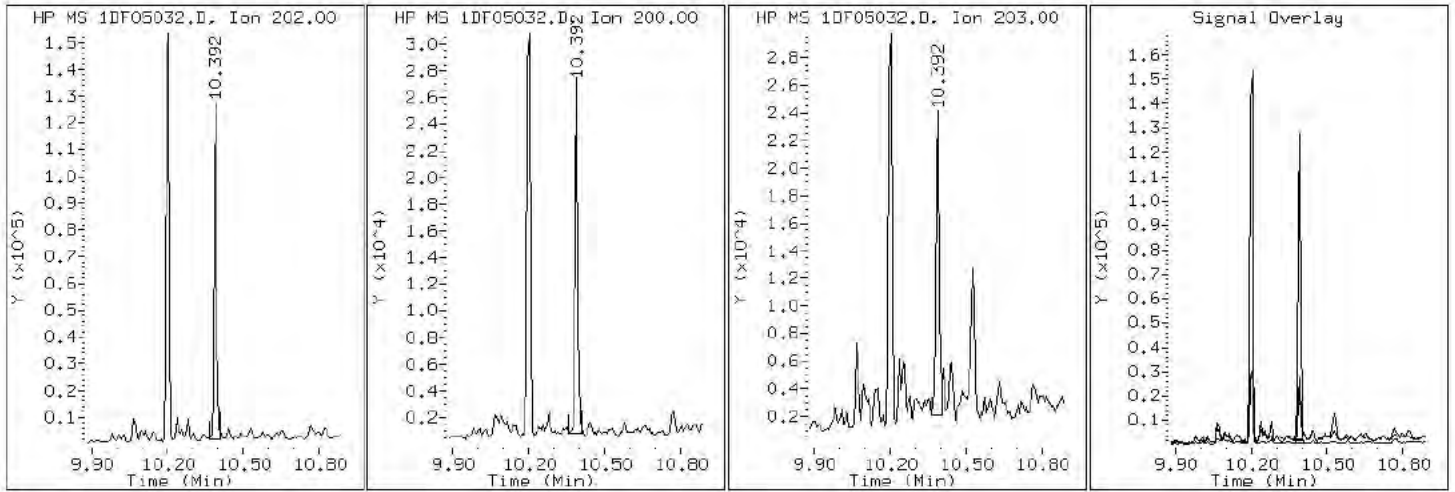
Client ID: CV0696B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-8-a

Operator: SCC

17 Pyrene

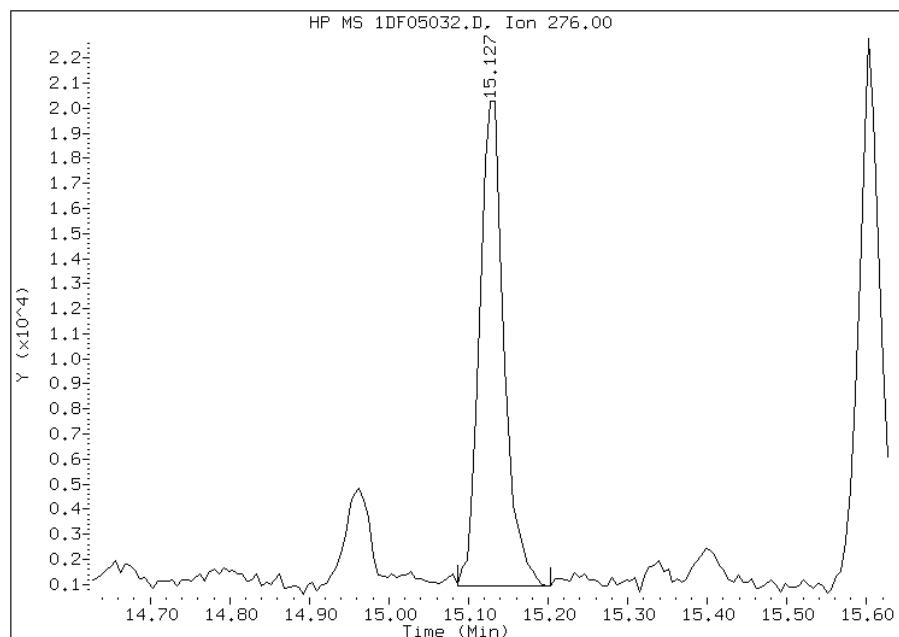


# Manual Integration Report

Data File: 1DF05032.D  
Inj. Date and Time: 05-JUN-2013 22:49  
Instrument ID: BSMSD.i  
Client ID: CV0696B-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

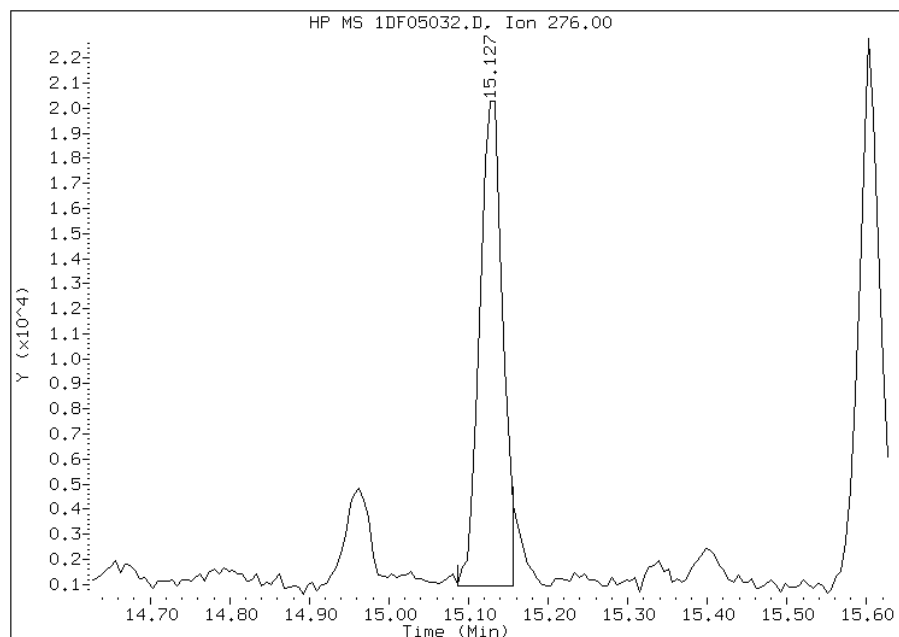
## Processing Integration Results

RT: 15.13  
Response: 40896  
Amount: 1  
Conc: 66



## Manual Integration Results

RT: 15.13  
Response: 38838  
Amount: 1  
Conc: 64



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:26  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0322A-CS-SP Lab Sample ID: 680-90852-9  
 Matrix: Solid Lab File ID: 1CF05027.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:36  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.95(g) Date Analyzed: 06/05/2013 19:49  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 8.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138101 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	11	J	44	5.5
120-12-7	Anthracene	14		9.2	4.6
56-55-3	Benzo[a]anthracene	63		8.7	4.3
50-32-8	Benzo[a]pyrene	59	F	11	5.7
205-99-2	Benzo[b]fluoranthene	100		13	6.7
191-24-2	Benzo[g,h,i]perylene	90		22	4.8
207-08-9	Benzo[k]fluoranthene	41		8.7	3.9
218-01-9	Chrysene	110		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	18	J	22	4.5
206-44-0	Fluoranthene	95		22	4.4
86-73-7	Fluorene	11	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	47		22	7.8
90-12-0	1-Methylnaphthalene	65		44	4.8
91-57-6	2-Methylnaphthalene	120		44	7.8
91-20-3	Naphthalene	64		44	4.8
85-01-8	Phenanthrene	110		8.7	4.3
129-00-0	Pyrene	86		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05027.D  
 Lab Smp Id: 680-90852-A-9-A Client Smp ID: FM0322A-CS-SP  
 Inj Date : 05-JUN-2013 19:49  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-90852-a-9-a  
 Misc Info : 680-90852-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 27  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	8.257	% 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		4.039	4.039	(1.000)	2180340	40.0000		
* 6 Acenaphthene-d10	164		5.127	5.127	(1.000)	1499228	40.0000		
* 10 Phenanthrene-d10	188		6.092	6.092	(1.000)	2739963	40.0000		
\$ 14 o-Terphenyl	230		6.345	6.345	(1.042)	232648	5.45077	397.4142	
* 18 Chrysene-d12	240		8.057	8.056	(1.000)	3399355	40.0000		
* 23 Perylene-d12	264		9.392	9.392	(1.000)	3114873	40.0000		
2 Naphthalene	128		4.051	4.051	(1.003)	54327	0.88295	64.3756	
3 2-Methylnaphthalene	142		4.474	4.474	(1.108)	56259	1.64846	120.1886	
4 1-Methylnaphthalene	142		4.539	4.539	(1.124)	29852	0.88904	64.8197	
5 Acenaphthylene	152		5.039	5.039	(0.983)	8450	0.14702	10.7194	
9 Fluorene	166		5.468	5.468	(1.067)	7246	0.15756	11.4879(Q)	
11 Phenanthrene	178		6.110	6.110	(1.003)	118925	1.46912	107.1127	
12 Anthracene	178		6.145	6.145	(1.009)	14053	0.18739	13.6622	
13 Carbazole	167		6.251	6.251	(1.026)	8880	0.24161	17.6159	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.957	6.962	(1.142)	107978	1.30500	95.1468
16 Pyrene	202	7.133	7.133	(0.885)	108791	1.18518	86.4107
17 Benzo(a)anthracene	228	8.045	8.051	(0.999)	81630	0.87085	63.4937
19 Chrysene	228	8.074	8.074	(1.002)	140703	1.49090	108.7008
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	108717	1.42056	103.5729(M)
21 Benzo(k)fluoranthene	252	8.998	9.009	(0.958)	47685	0.55787	40.6741(QM)
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	55776	0.81340	59.3049
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	40843	0.64870	47.2961(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.148)	16779	0.25238	18.4007(M)
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	89615	1.23840	90.2916(M)

QC Flag Legend

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



Data File: 1CF05027.D

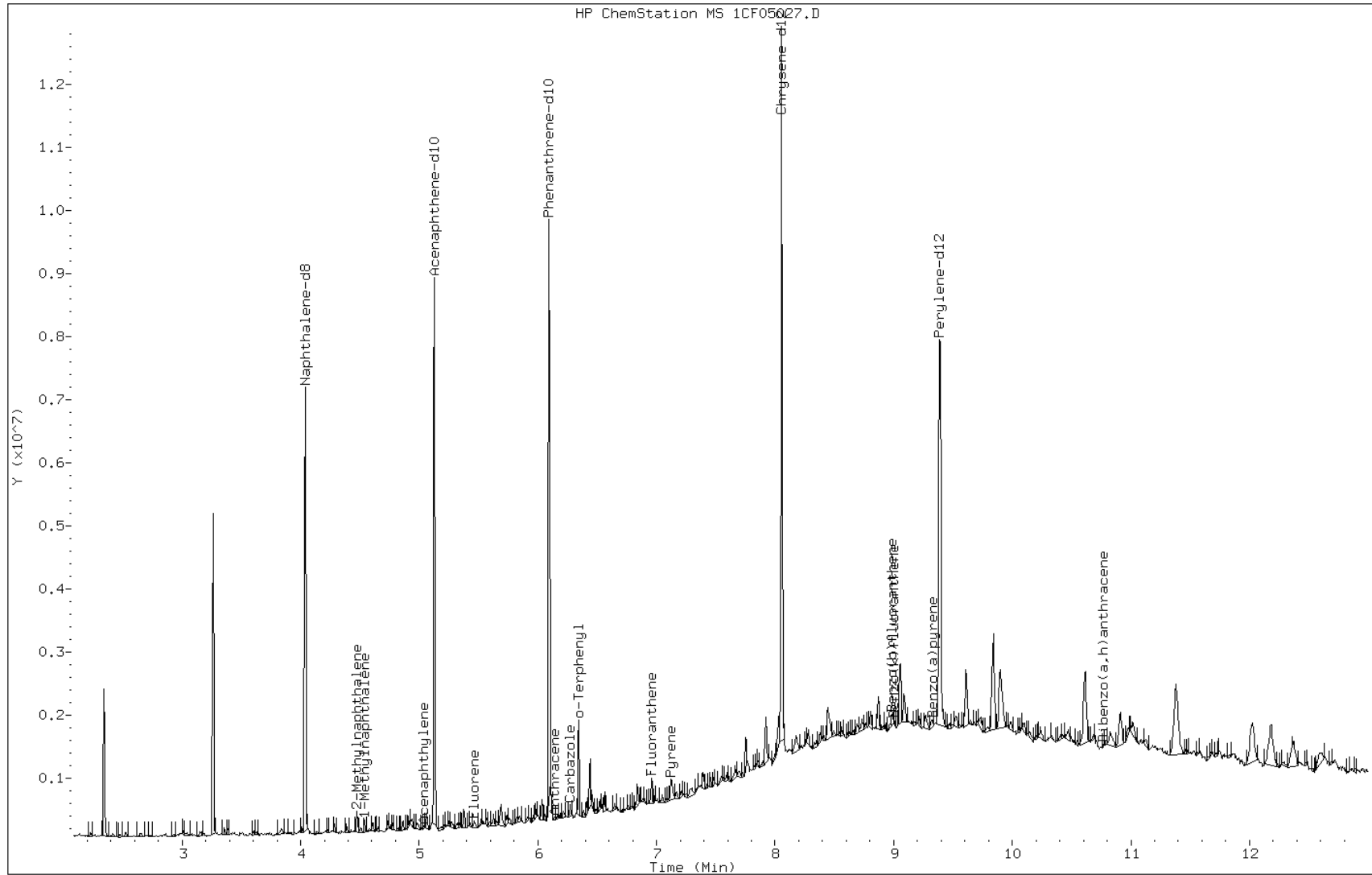
Date: 05-JUN-2013 19:49

Client ID: FM0322A-CS-SP

Sample Info: 680-90852-a-9-a

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

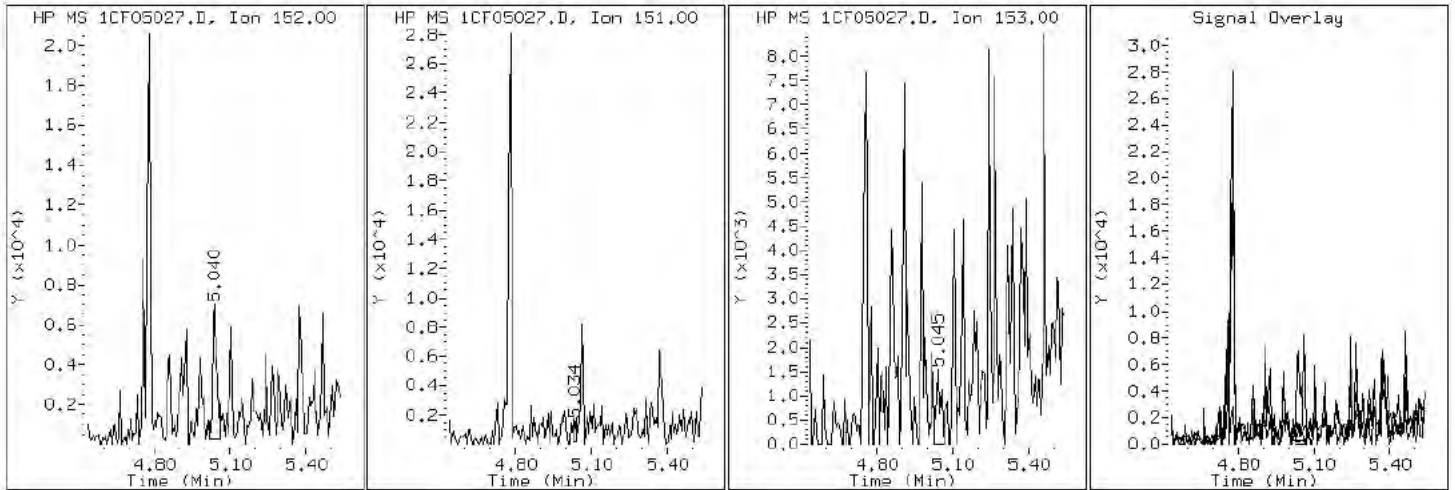
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

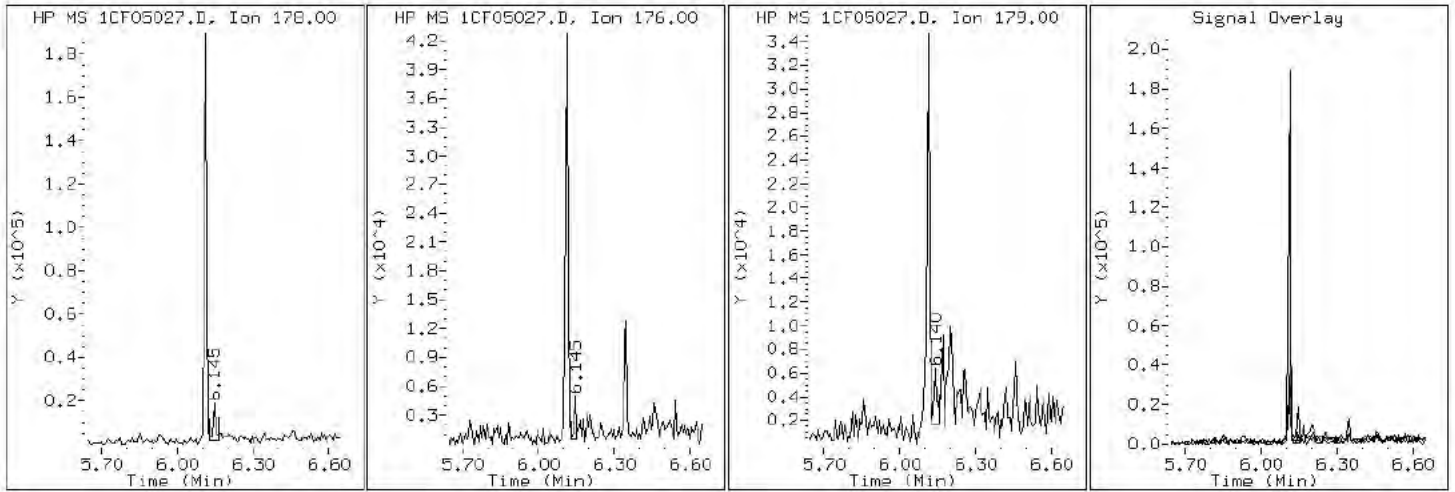
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

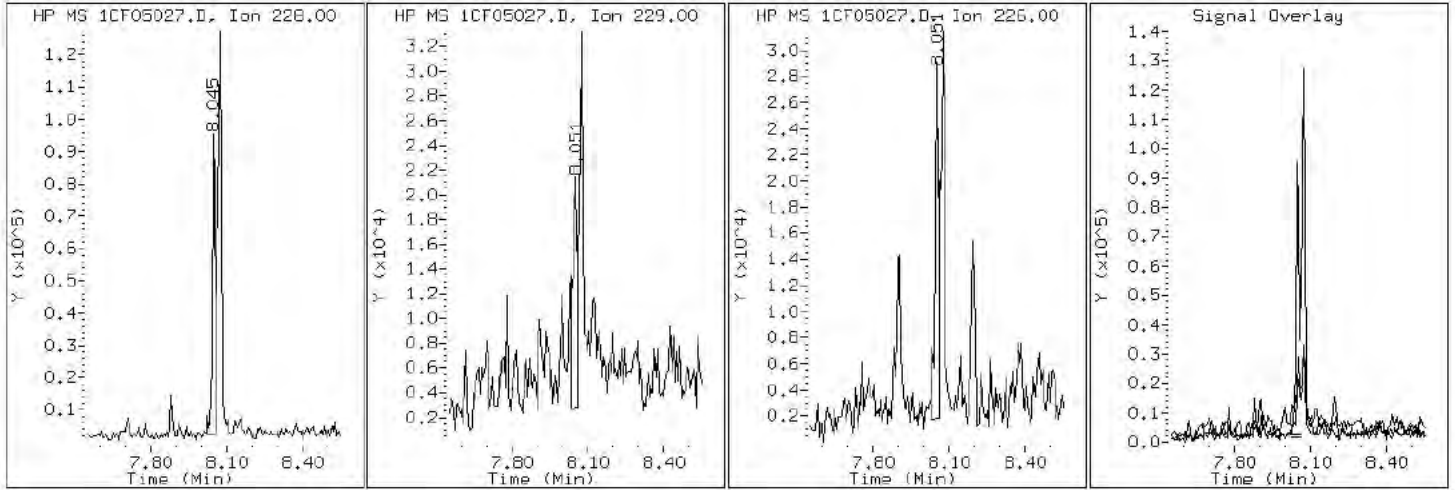
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

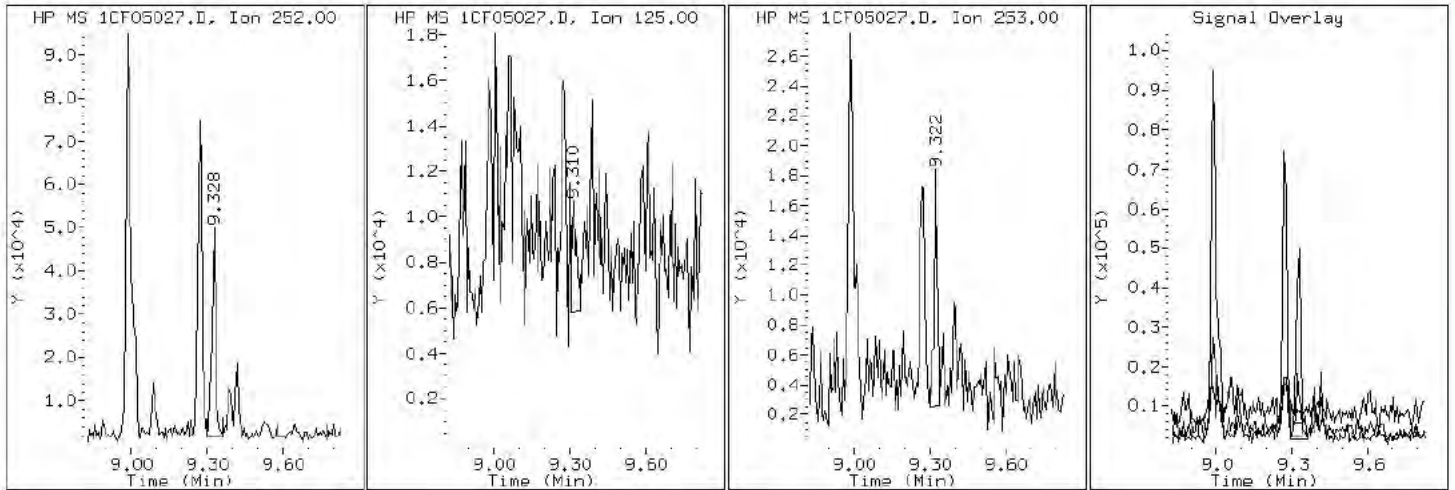
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

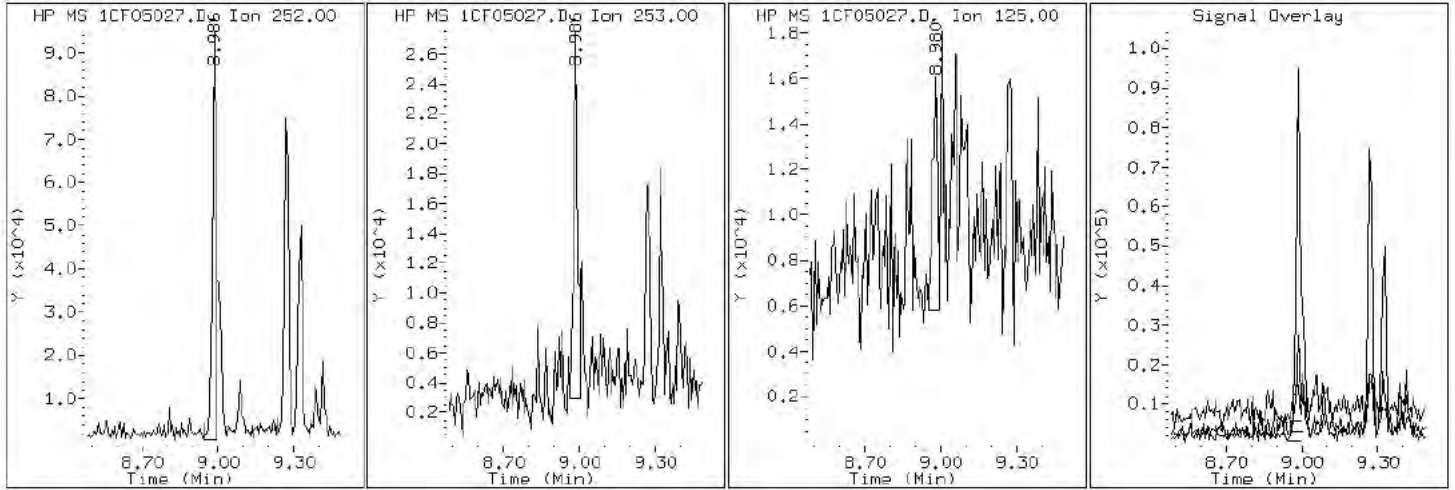
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

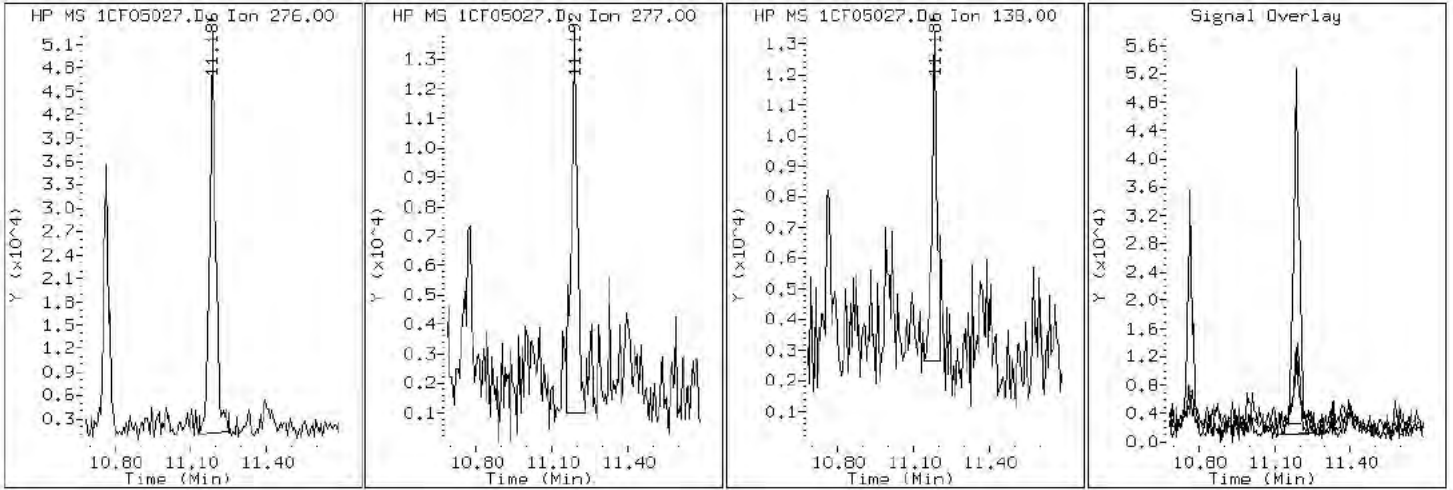
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

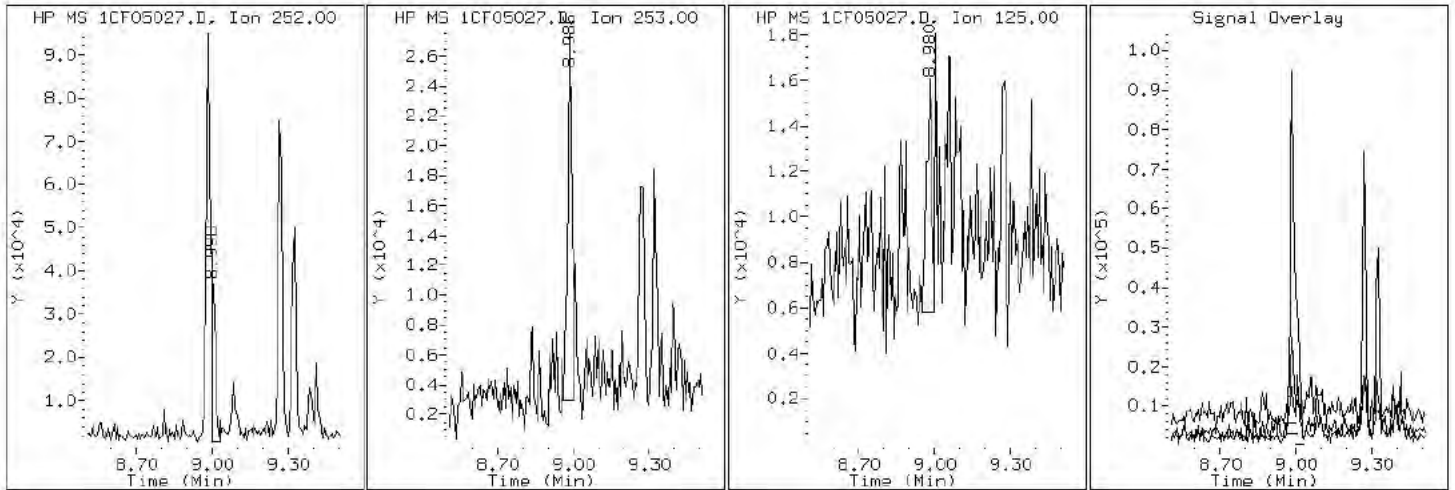
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene





Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

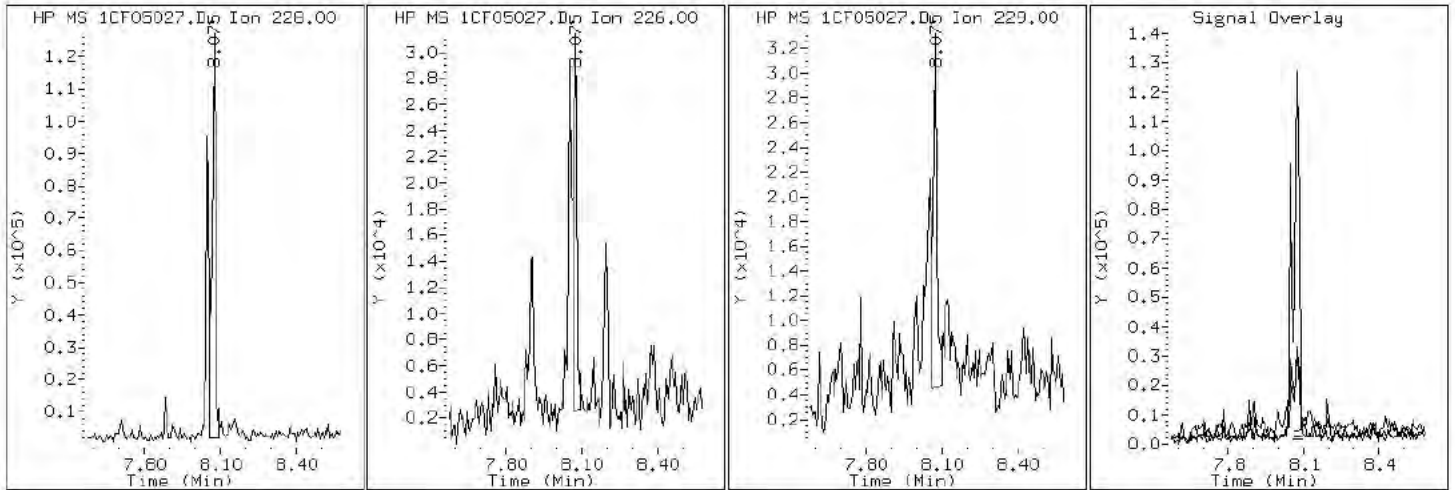
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

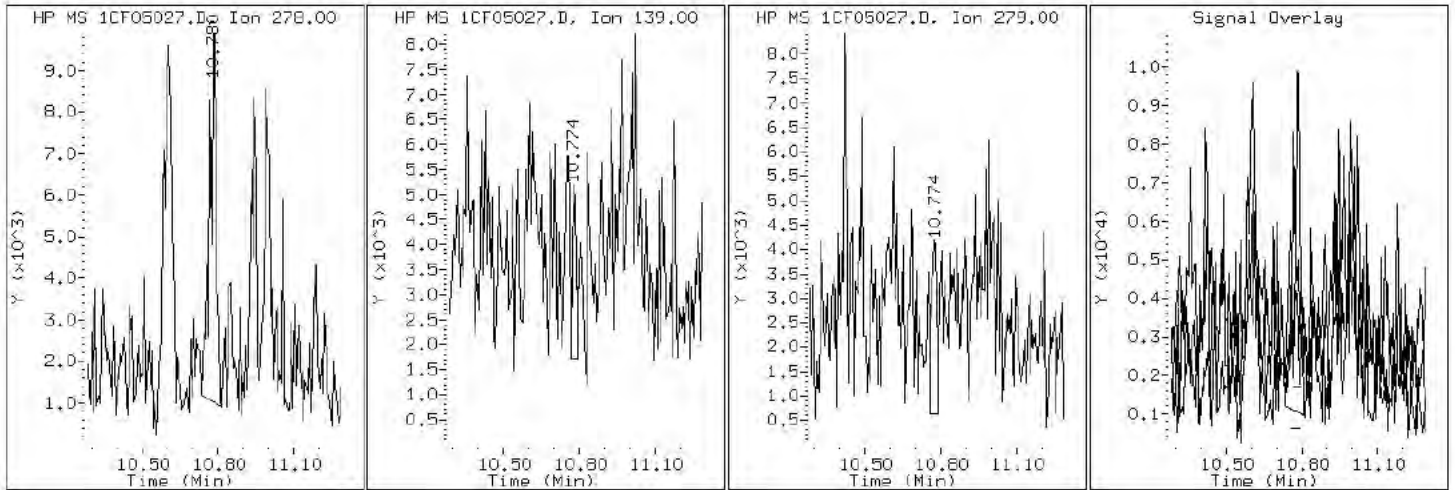
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

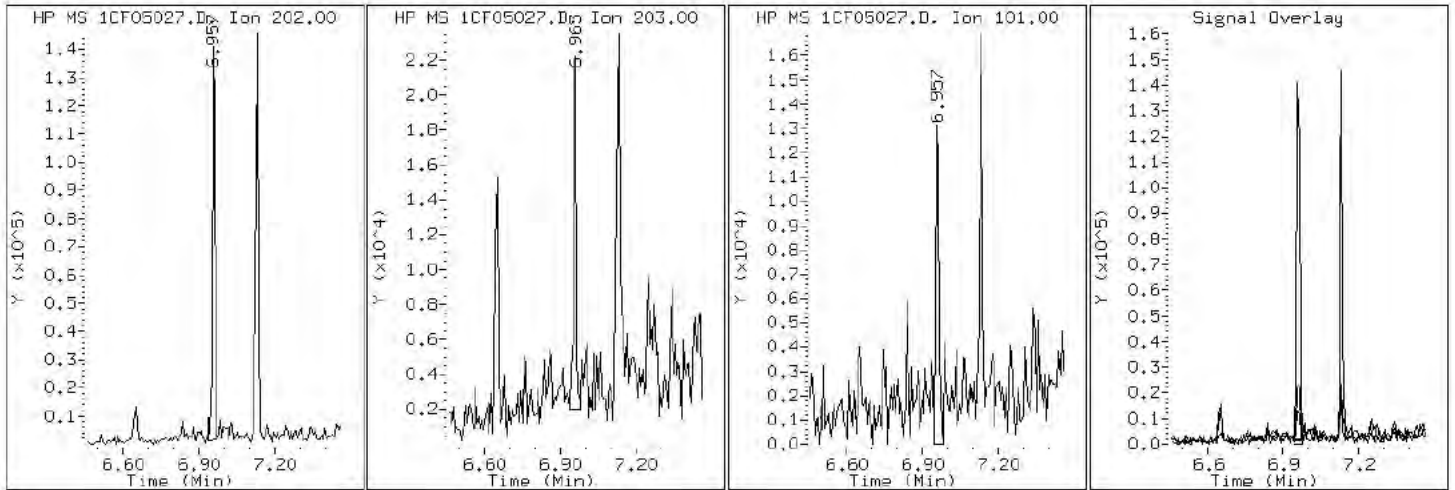
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

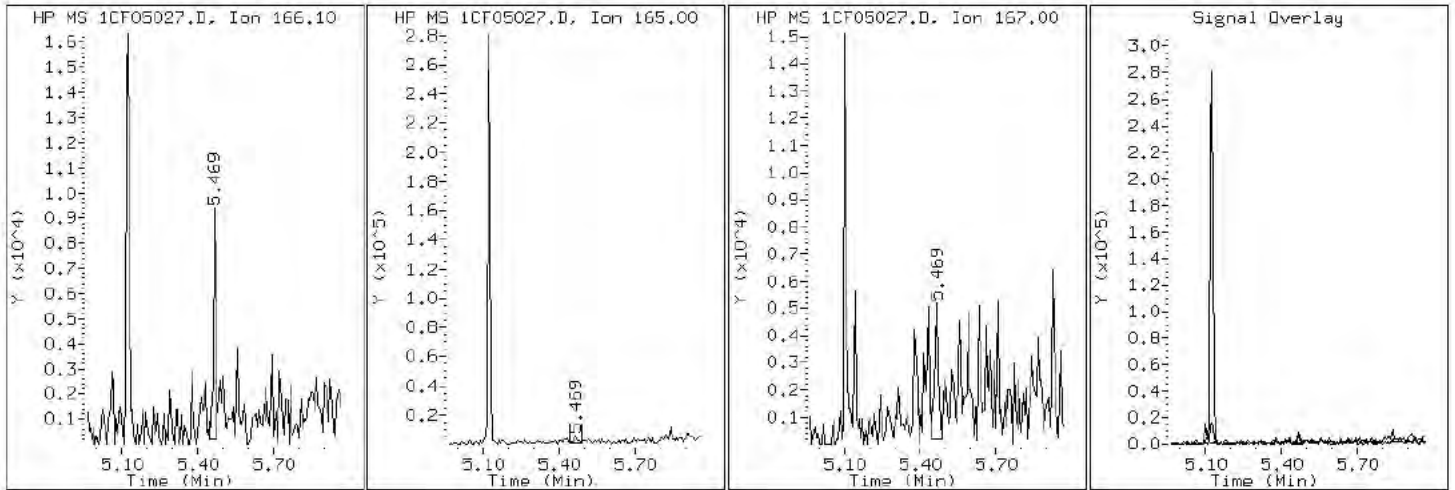
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

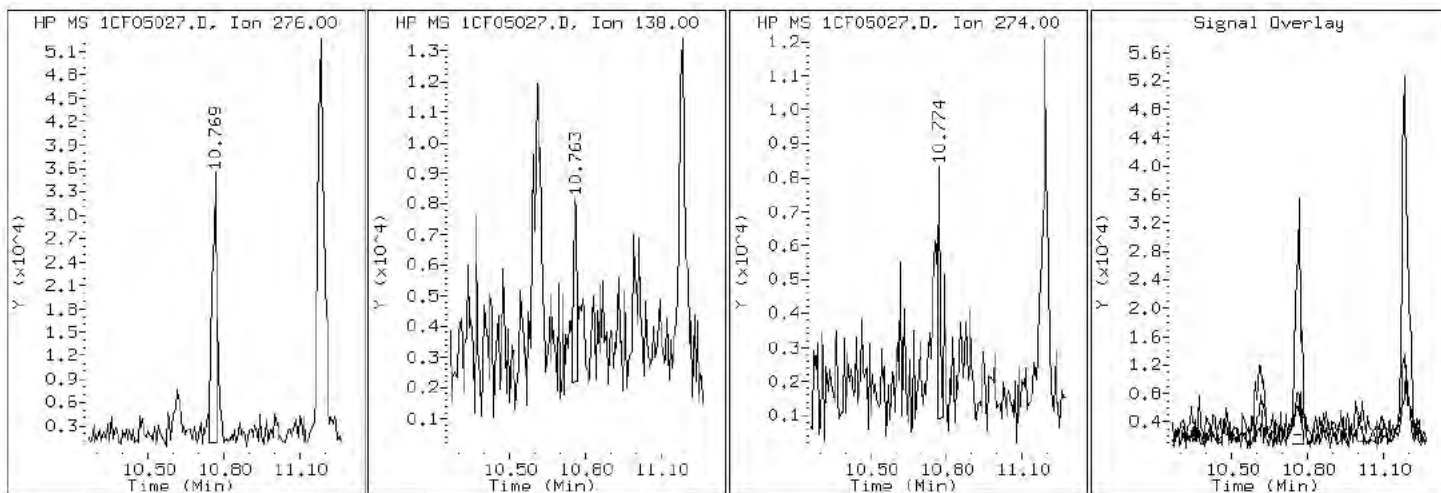
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

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



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

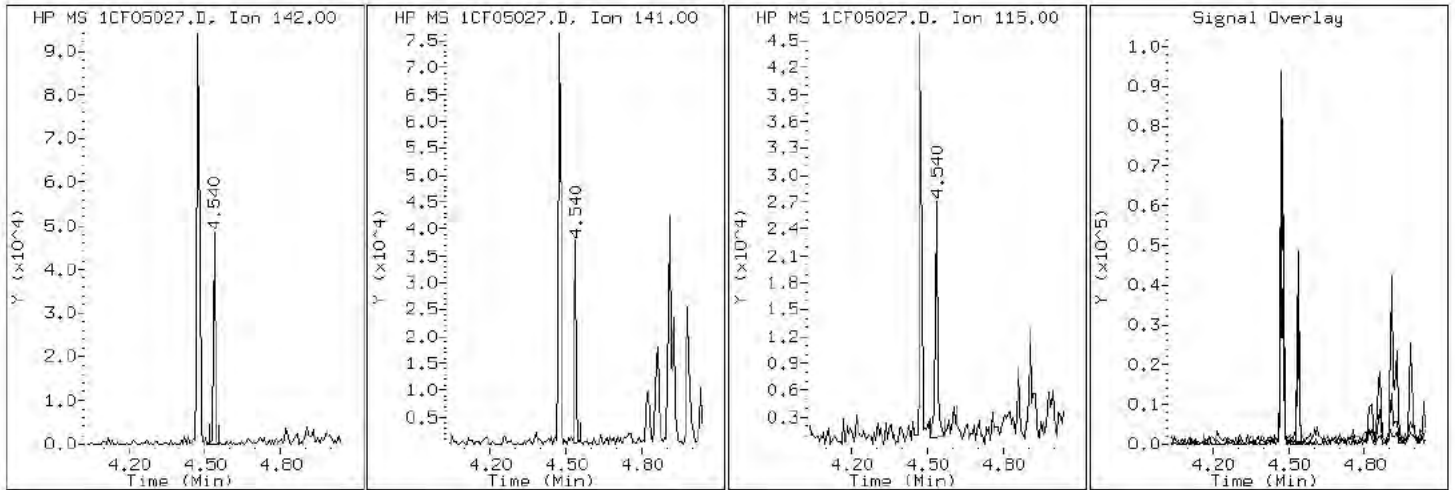
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

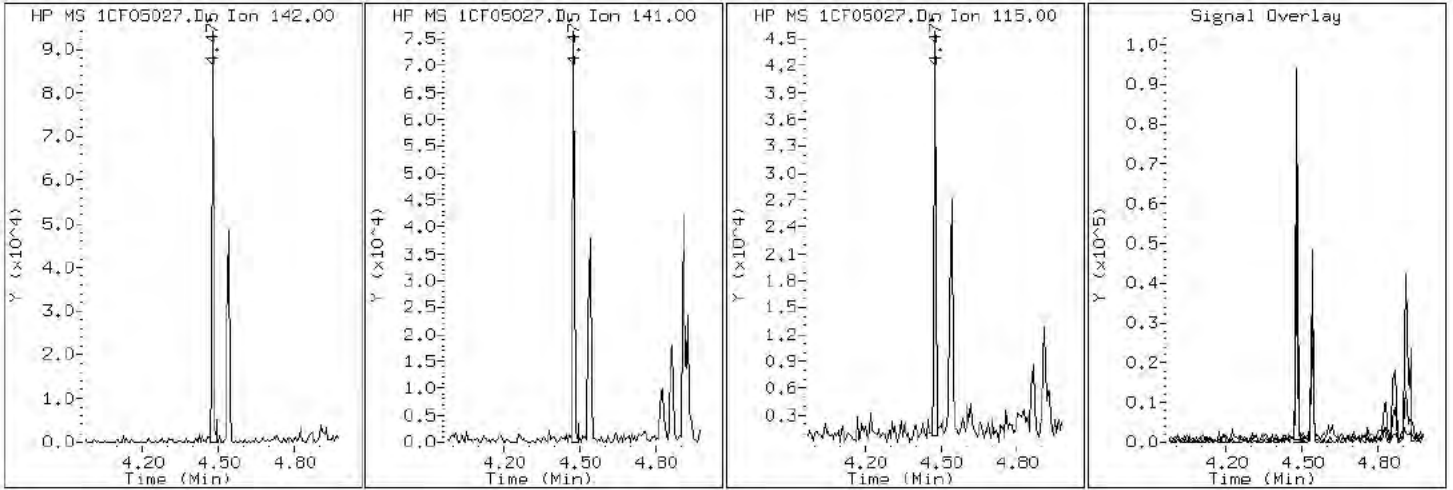
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

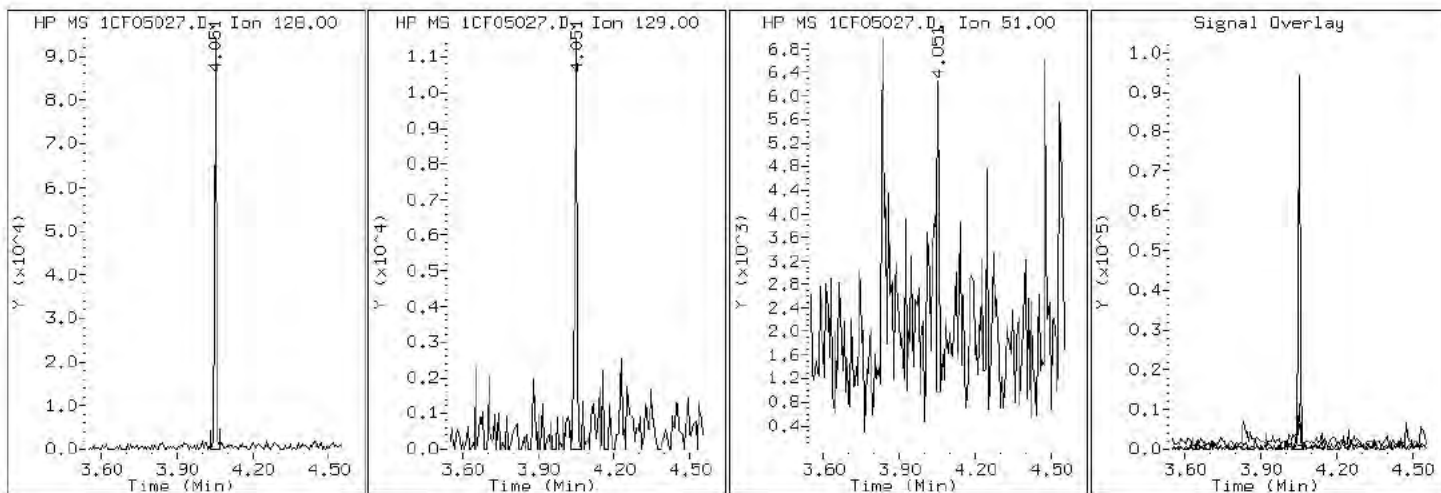
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

2 Naphthalene





Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

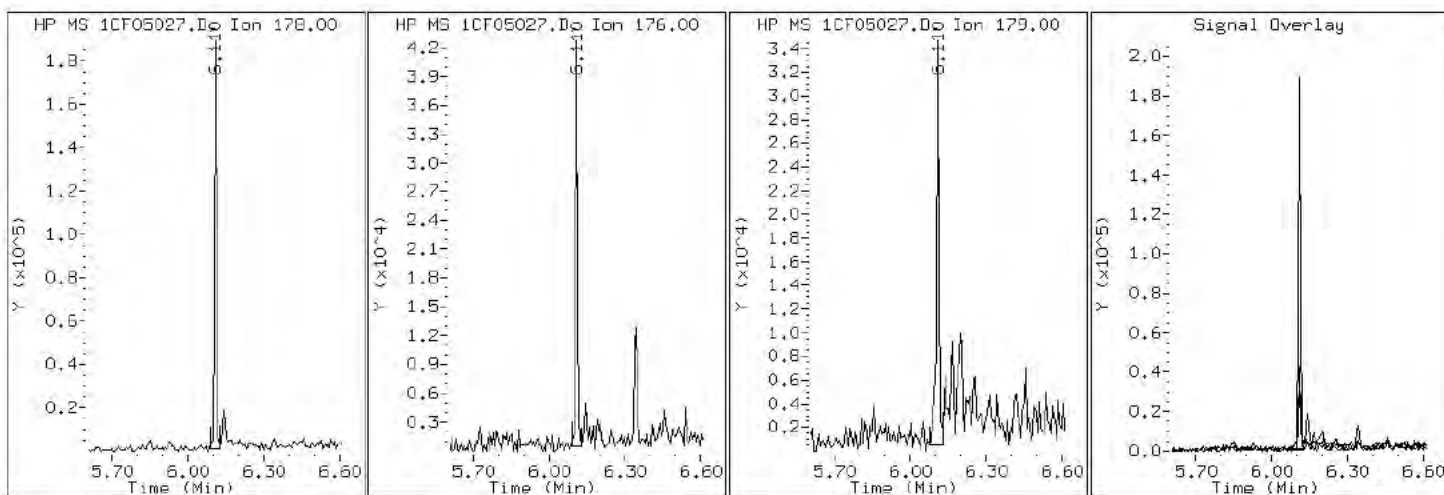
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CF05027.D

Date: 05-JUN-2013 19:49

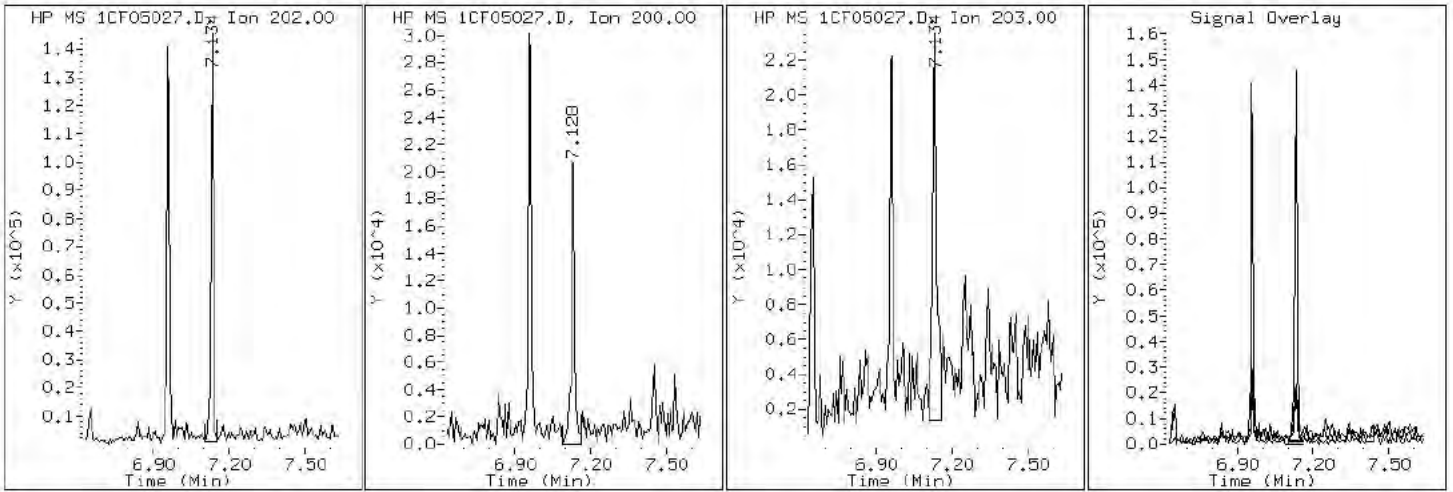
Client ID: FM0322A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-a

Operator: SCC

16 Pyrene

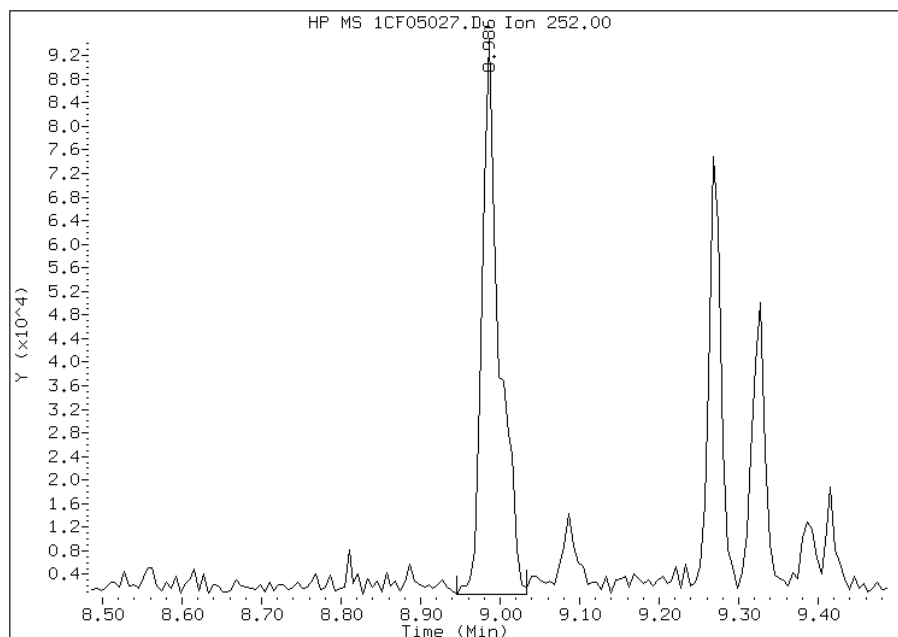


# Manual Integration Report

Data File: 1CF05027.D  
Inj. Date and Time: 05-JUN-2013 19:49  
Instrument ID: BSMC5973.i  
Client ID: FM0322A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 06/06/2013

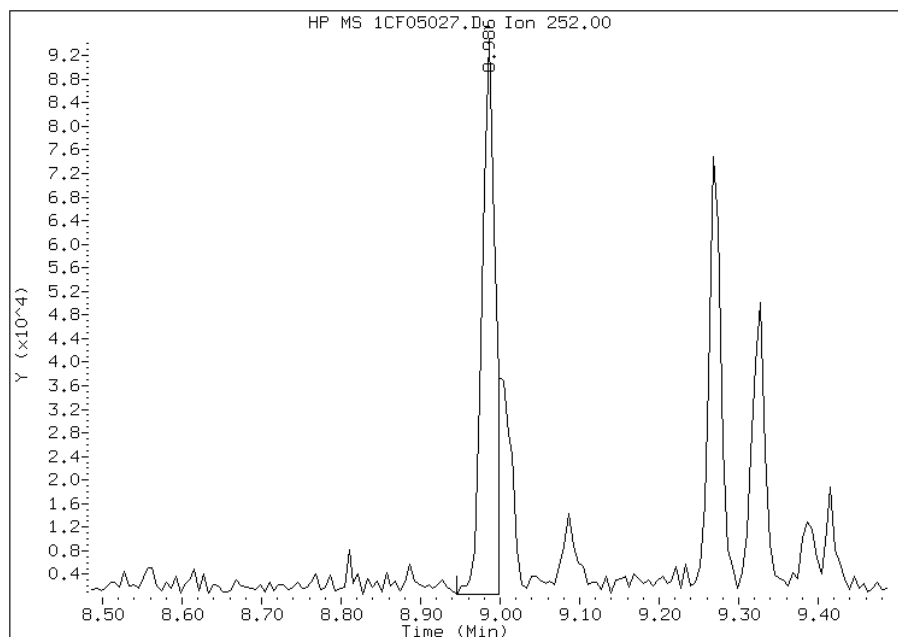
## Processing Integration Results

RT: 8.99  
Response: 142829  
Amount: 2  
Conc: 136



## Manual Integration Results

RT: 8.99  
Response: 108717  
Amount: 1  
Conc: 104



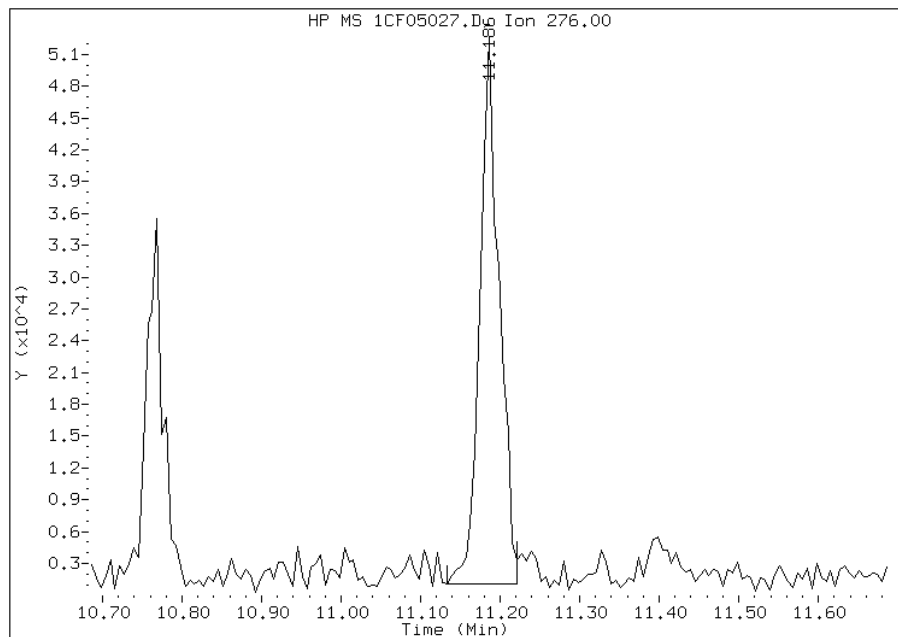
Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:43  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CF05027.D  
Inj. Date and Time: 05-JUN-2013 19:49  
Instrument ID: BSMC5973.i  
Client ID: FM0322A-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/06/2013

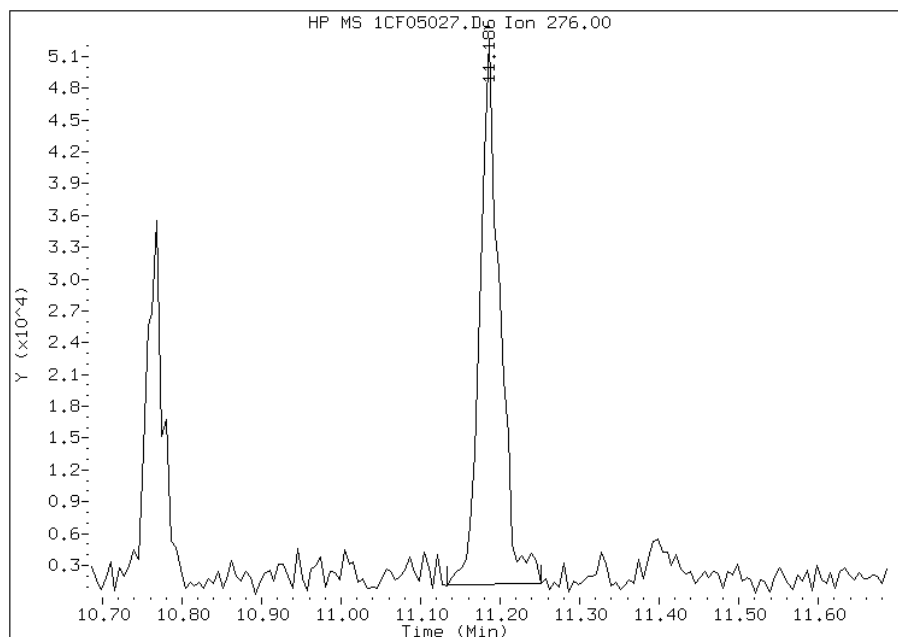
## Processing Integration Results

RT: 11.19  
Response: 86842  
Amount: 1  
Conc: 87



## Manual Integration Results

RT: 11.19  
Response: 89615  
Amount: 1  
Conc: 90



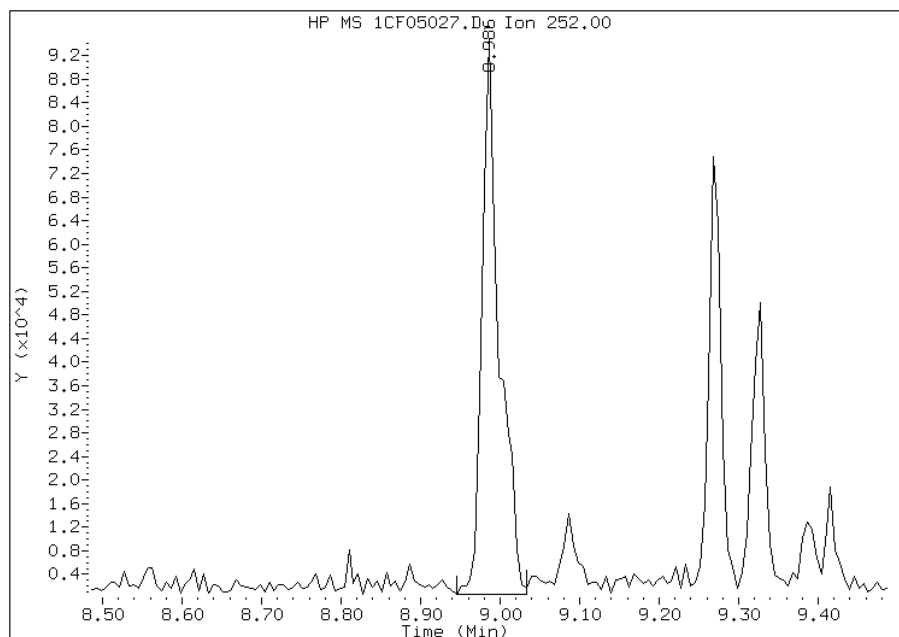
Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:43  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CF05027.D  
Inj. Date and Time: 05-JUN-2013 19:49  
Instrument ID: BSMC5973.i  
Client ID: FM0322A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/06/2013

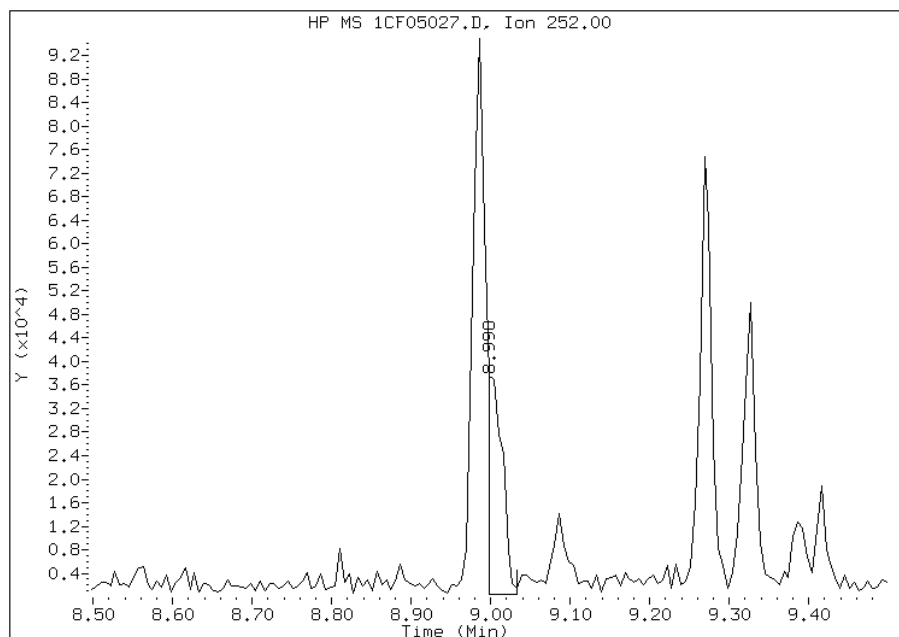
## Processing Integration Results

RT: 8.99  
Response: 142829  
Amount: 2  
Conc: 122



## Manual Integration Results

RT: 9.00  
Response: 47685  
Amount: 1  
Conc: 41



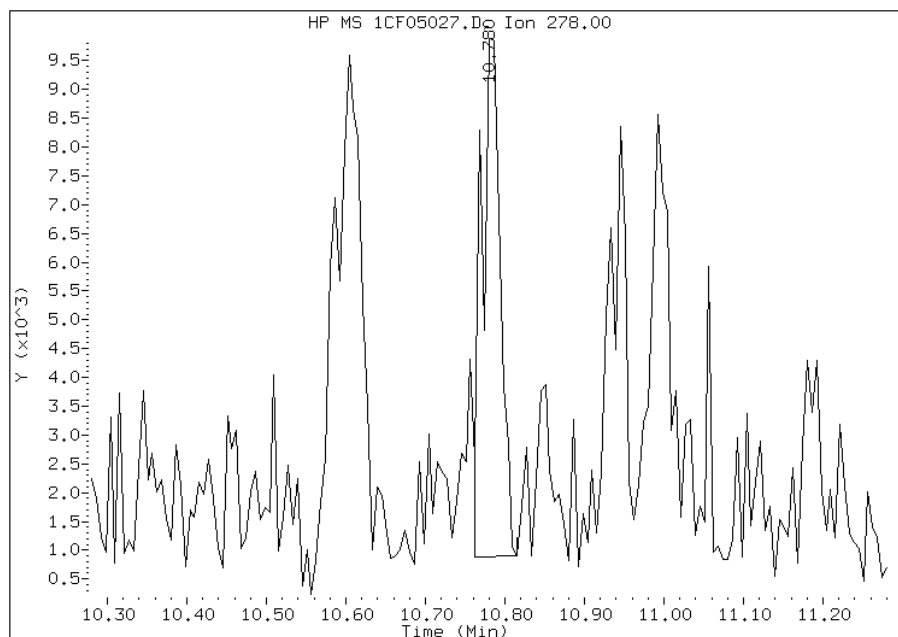
Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:43  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CF05027.D  
Inj. Date and Time: 05-JUN-2013 19:49  
Instrument ID: BSMC5973.i  
Client ID: FM0322A-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 06/06/2013

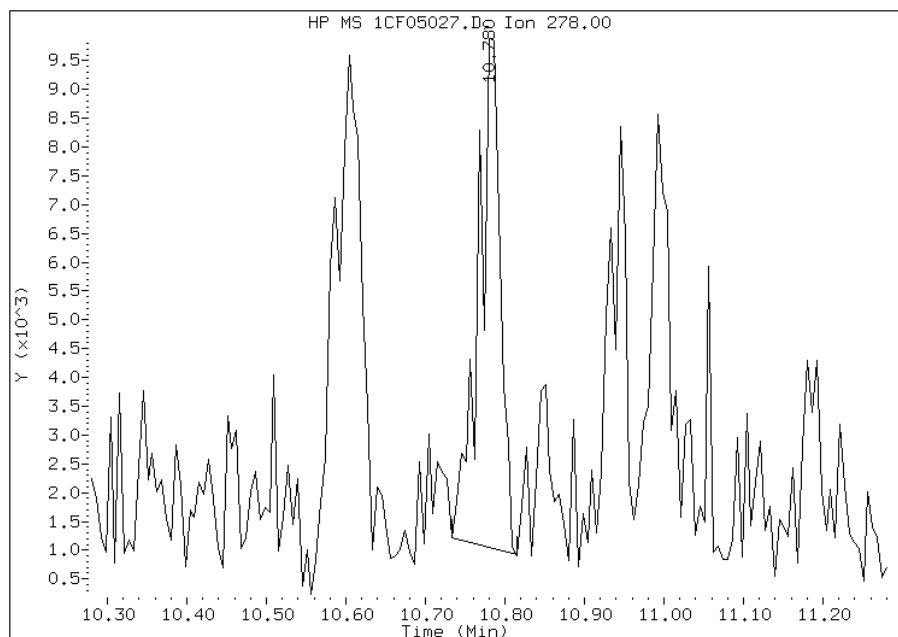
## Processing Integration Results

RT: 10.78  
Response: 14832  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 10.78  
Response: 16779  
Amount: 0  
Conc: 18



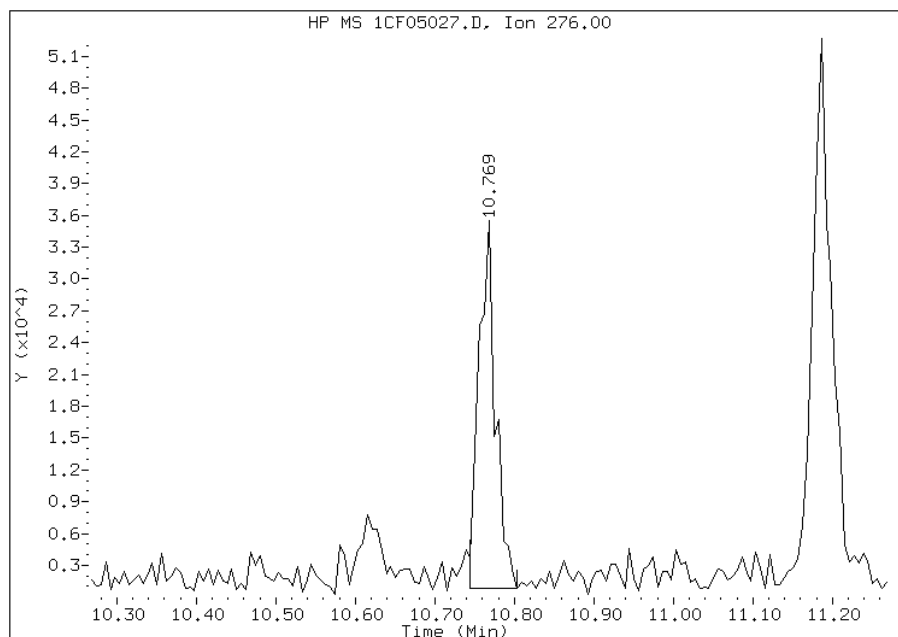
Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:43  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CF05027.D  
Inj. Date and Time: 05-JUN-2013 19:49  
Instrument ID: BSMC5973.i  
Client ID: FM0322A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/06/2013

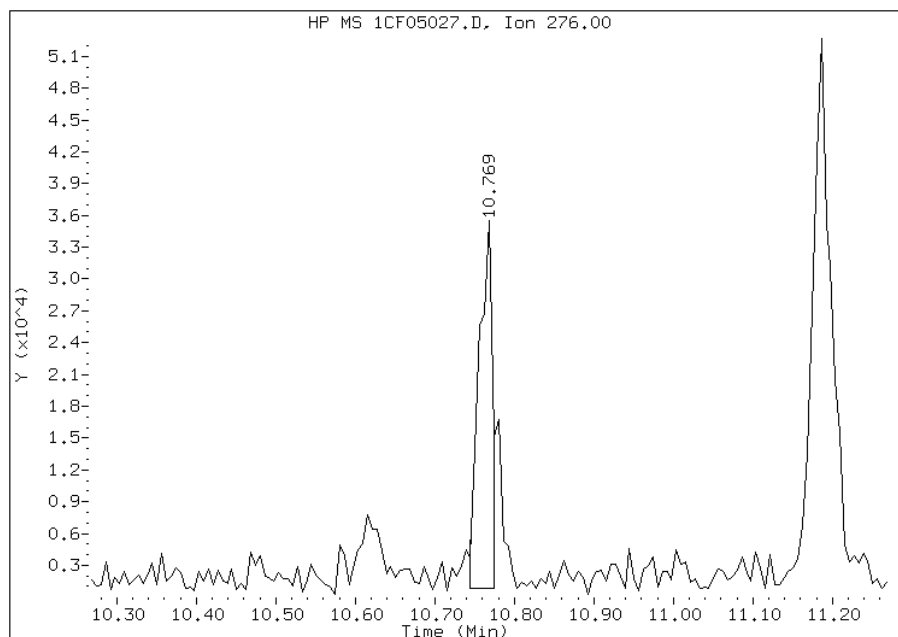
## Processing Integration Results

RT: 10.77  
Response: 50102  
Amount: 1  
Conc: 55



## Manual Integration Results

RT: 10.77  
Response: 40843  
Amount: 1  
Conc: 47



Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:44  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0322B-CS-SP Lab Sample ID: 680-90852-10  
 Matrix: Solid Lab File ID: 1DF05033.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:44  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.11(g) Date Analyzed: 06/05/2013 23:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 13.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	23	J	46	5.7
120-12-7	Anthracene	38		9.6	4.8
56-55-3	Benzo[a]anthracene	130		9.1	4.5
50-32-8	Benzo[a]pyrene	96		12	5.9
205-99-2	Benzo[b]fluoranthene	180		14	7.0
191-24-2	Benzo[g,h,i]perylene	110		23	5.0
207-08-9	Benzo[k]fluoranthene	40		9.1	4.1
218-01-9	Chrysene	200		10	5.1
53-70-3	Dibenz(a,h)anthracene	29		23	4.7
206-44-0	Fluoranthene	160		23	4.6
86-73-7	Fluorene	18	J	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	50		23	8.1
90-12-0	1-Methylnaphthalene	340		46	5.0
91-57-6	2-Methylnaphthalene	510		46	8.1
91-20-3	Naphthalene	110		46	5.0
85-01-8	Phenanthrene	570		9.1	4.5
129-00-0	Pyrene	160		23	4.2

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



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05033.D  
 Lab Smp Id: 680-90852-A-10-A Client Smp ID: FM0322B-CS-SP  
 Inj Date : 05-JUN-2013 23:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-10-a  
 Misc Info : 680-90852-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.110	Weight Extracted
M	13.198	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.275	6.265	(1.000)	3432578	40.0000	
* 7 Acenaphthene-d10	164	7.943	7.934	(1.000)	1891301	40.0000	
* 11 Phenanthrene-d10	188	9.201	9.191	(1.000)	2971166	40.0000	
\$ 15 o-Terphenyl	230	9.512	9.503	(1.034)	244351	5.61360	430
* 19 Chrysene-d12	240	11.574	11.553	(1.000)	3186669	40.0000	
* 24 Perylene-d12	264	13.490	13.457	(1.000)	2831632	40.0000	
2 Naphthalene	128	6.292	6.289	(1.003)	126562	1.49514	110
3 2-Methylnaphthalene	142	6.991	6.988	(1.114)	359694	6.67368	510
4 1-Methylnaphthalene	142	7.085	7.076	(1.129)	248568	4.47975	340
5 1,1'-Biphenyl	154	7.426	7.423	(0.935)	48093	0.75265	57
6 Acenaphthylene	152	7.814	7.811	(0.984)	23251	0.29651	23(Q)
9 Dibenzofuran	168	8.114	8.110	(1.021)	171079	2.49420	190
10 Fluorene	166	8.407	8.404	(1.058)	13299	0.23628	18(Q)
12 Phenanthrene	178	9.218	9.215	(1.002)	600769	7.46585	570

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.259	9.256 (1.006)		38480	0.49285	38
16 Fluoranthene	202	10.205	10.196 (1.109)		169116	2.05431	160
17 Pyrene	202	10.393	10.384 (0.898)		201080	2.15524	160
18 Benzo(a)anthracene	228	11.557	11.542 (0.998)		163661	1.73052	130
20 Chrysene	228	11.592	11.583 (1.002)		224848	2.64025	200
21 Benzo(b)fluoranthene	252	12.914	12.893 (0.957)		171481	2.41731	180
22 Benzo(k)fluoranthene	252	12.949	12.934 (0.960)		39351	0.52972	40
23 Benzo(a)pyrene	252	13.384	13.363 (0.992)		81322	1.25643	96
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.102 (1.122)		37606	0.65897	50(M)
26 Dibenzo(a,h)anthracene	278	15.164	15.137 (1.124)		20993	0.38217	29
27 Benzo(g,h,i)perylene	276	15.617	15.572 (1.158)		94801	1.47444	110

QC Flag Legend

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

Data File: 1DF05033.D

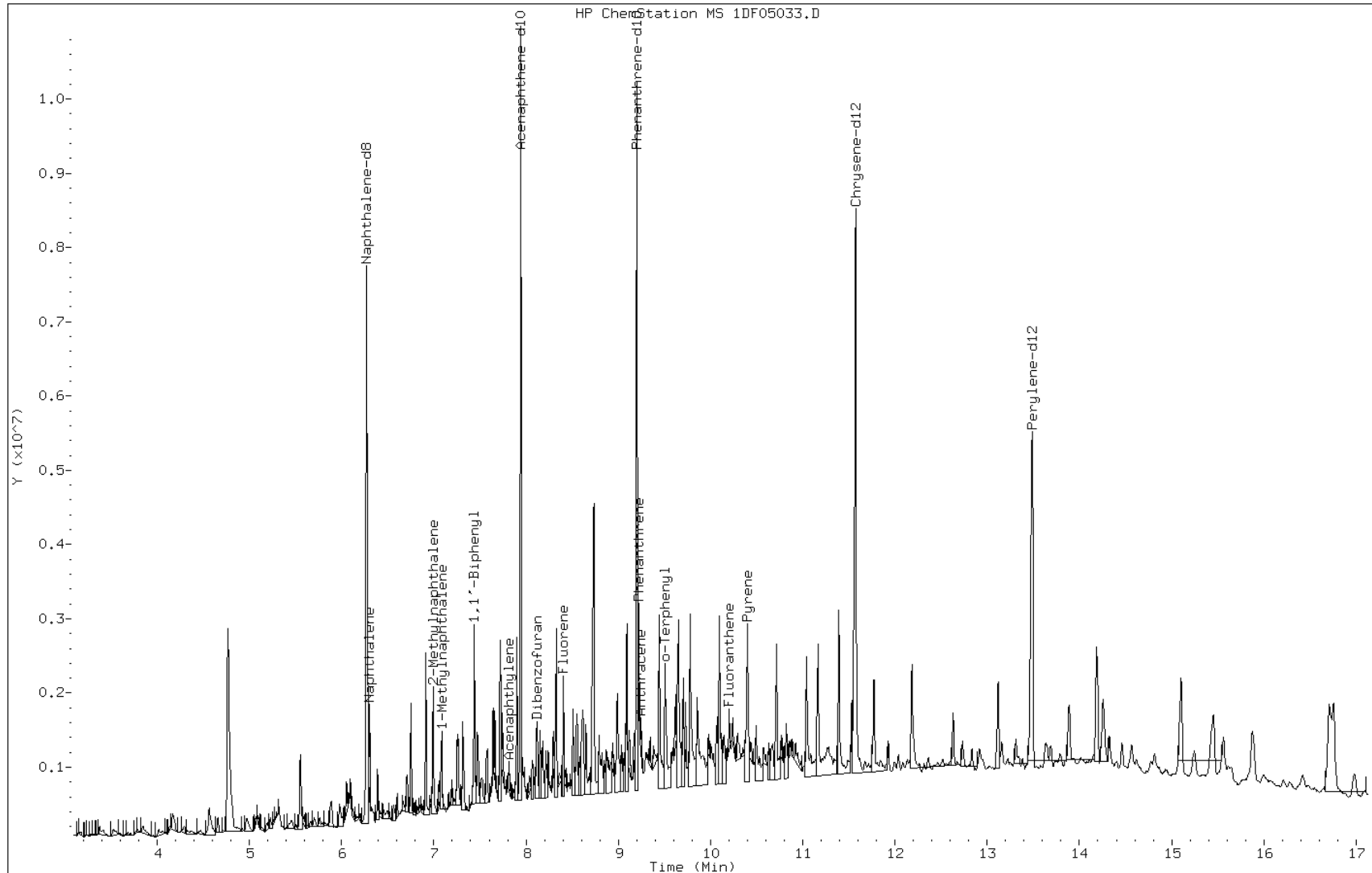
Date: 05-JUN-2013 23:12

Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

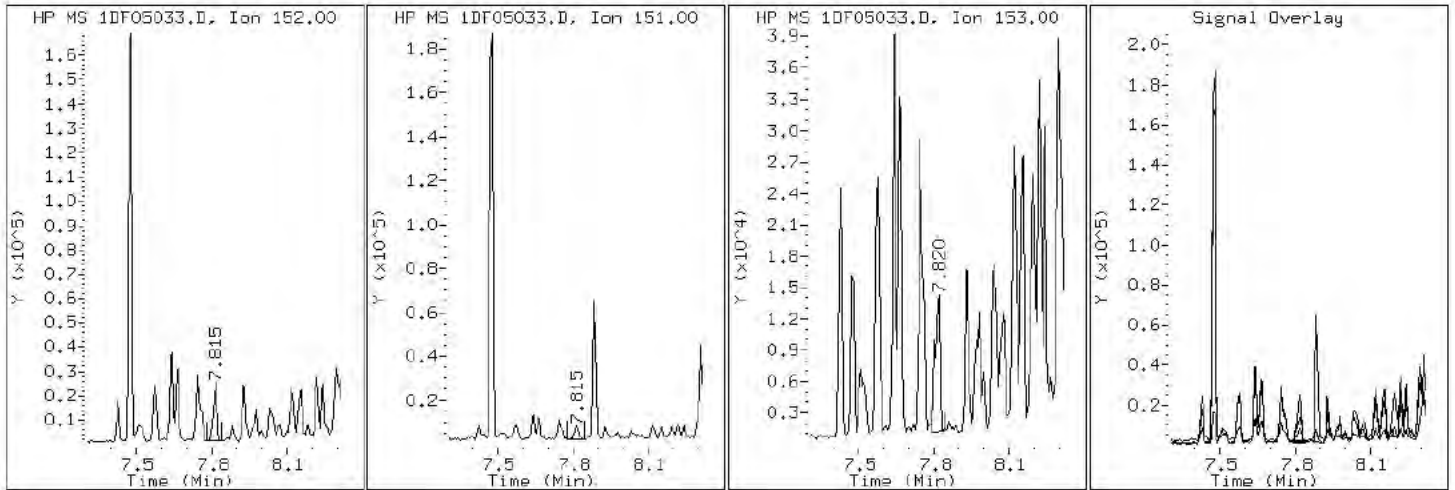
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

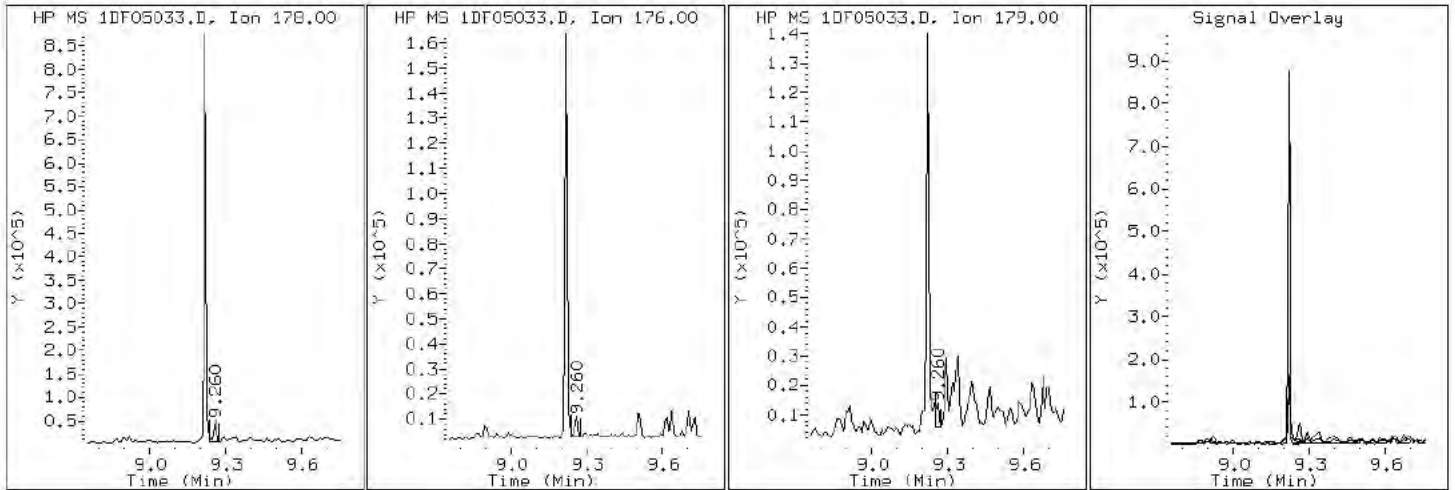
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

13 Anthracene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

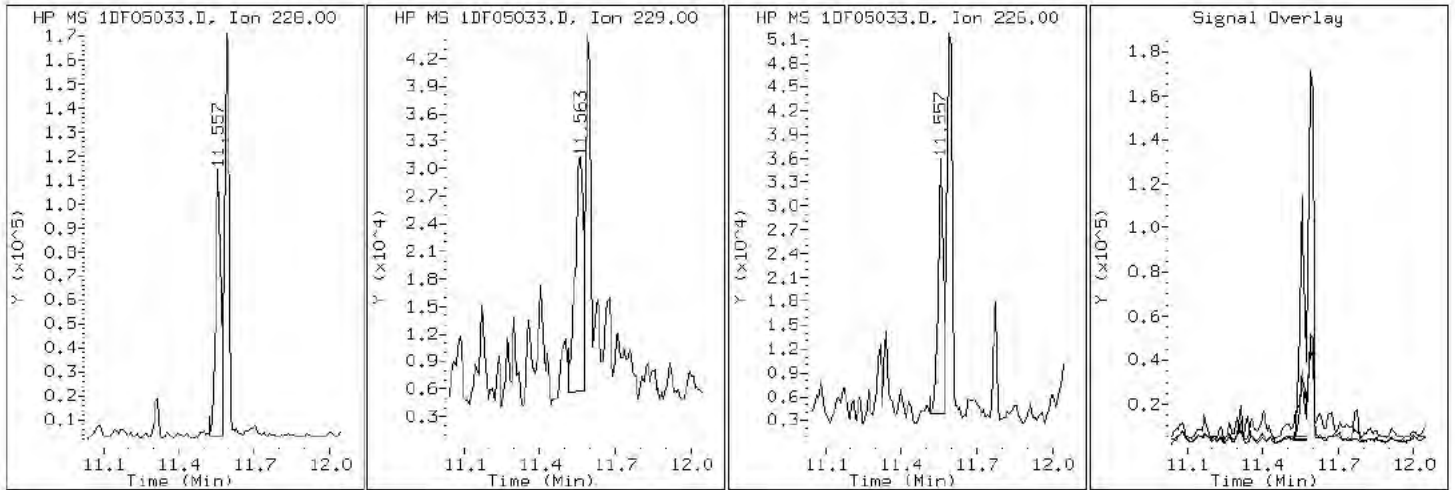
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

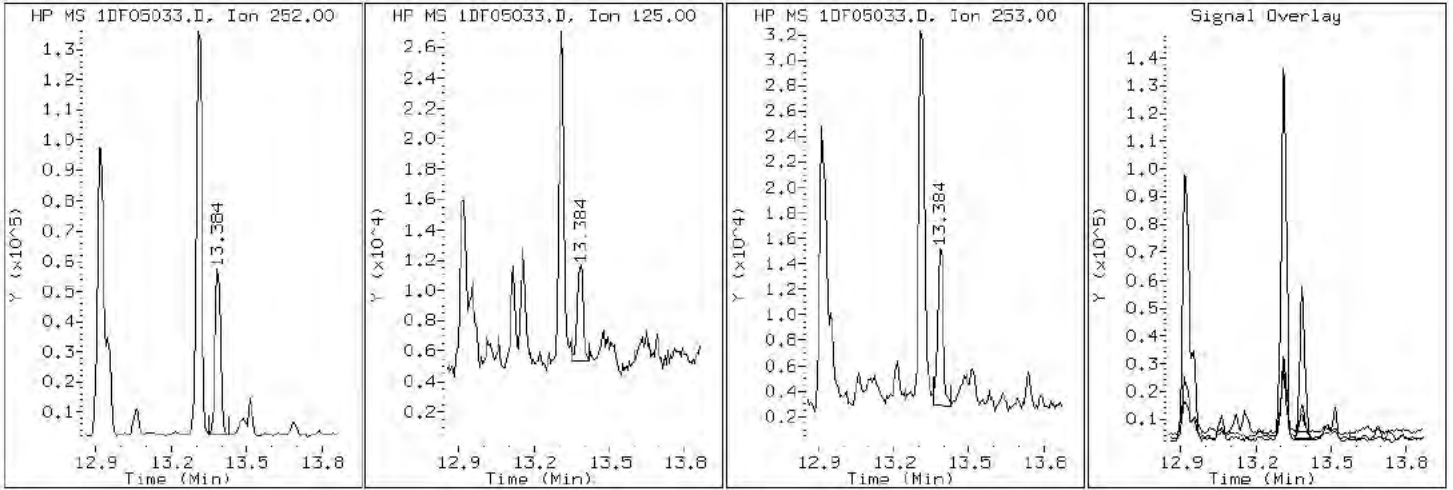
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

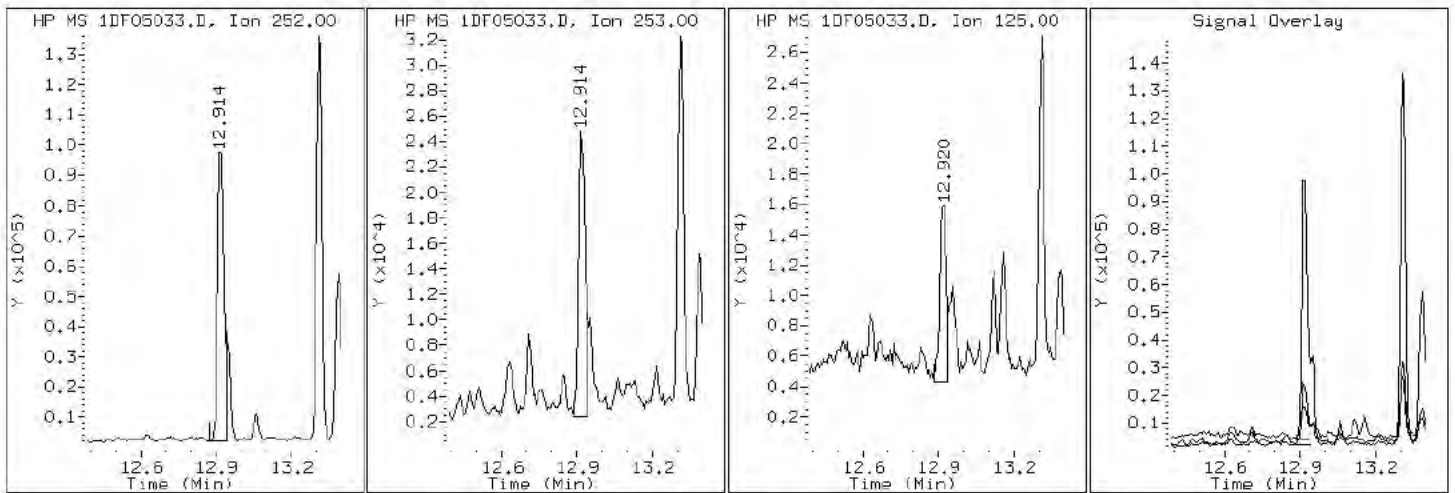
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

21 Benzo (b) fluoranthene





Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

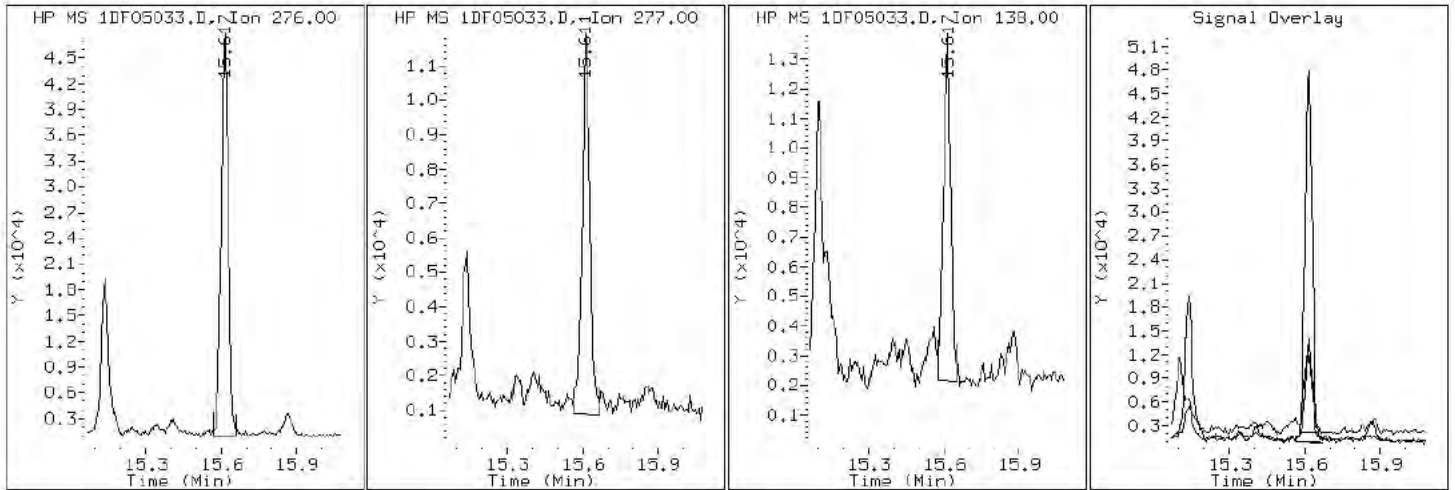
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

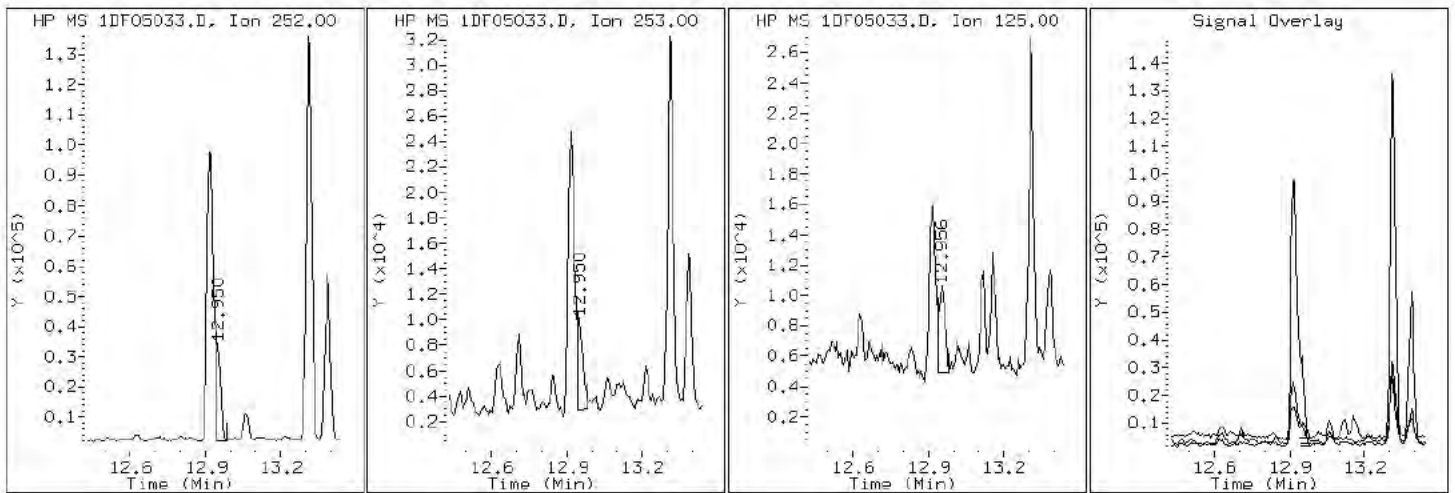
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

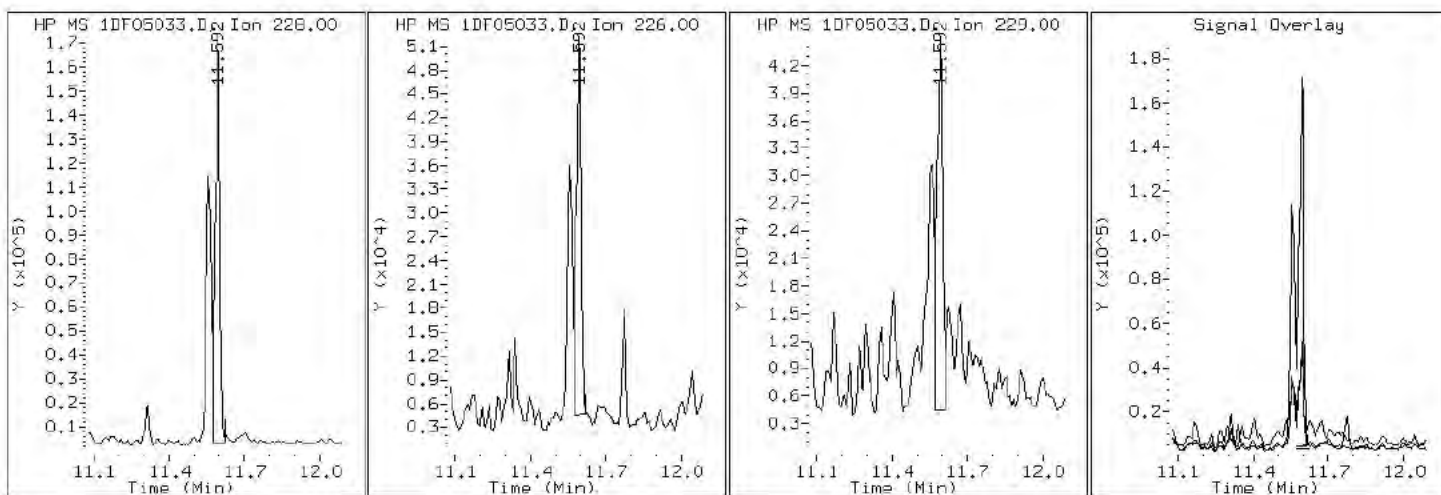
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

20 Chrysene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

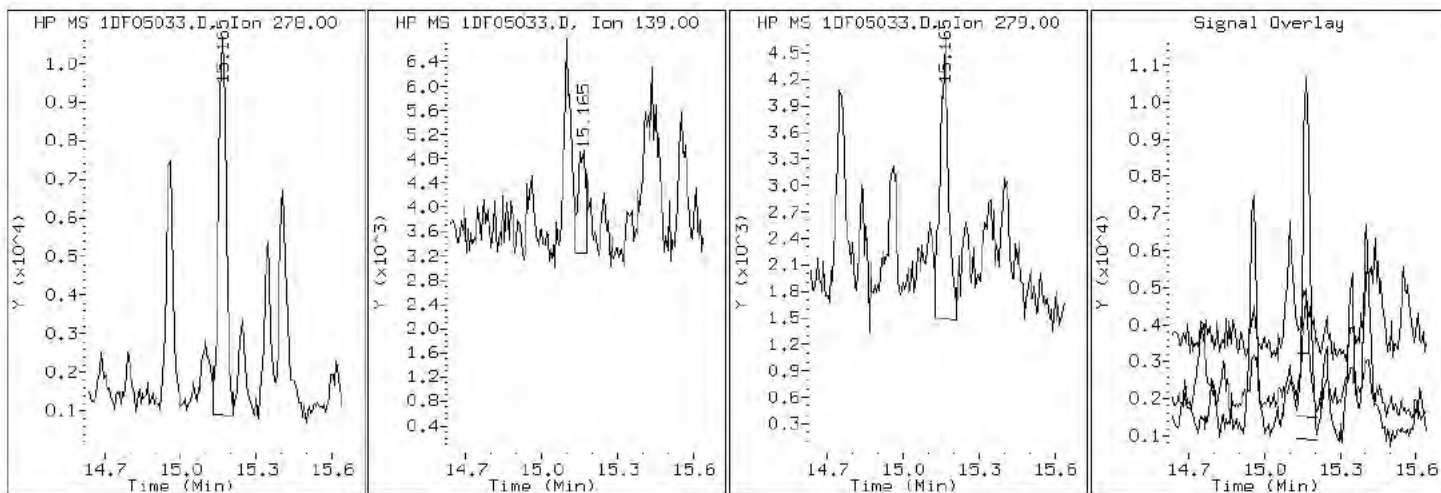
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

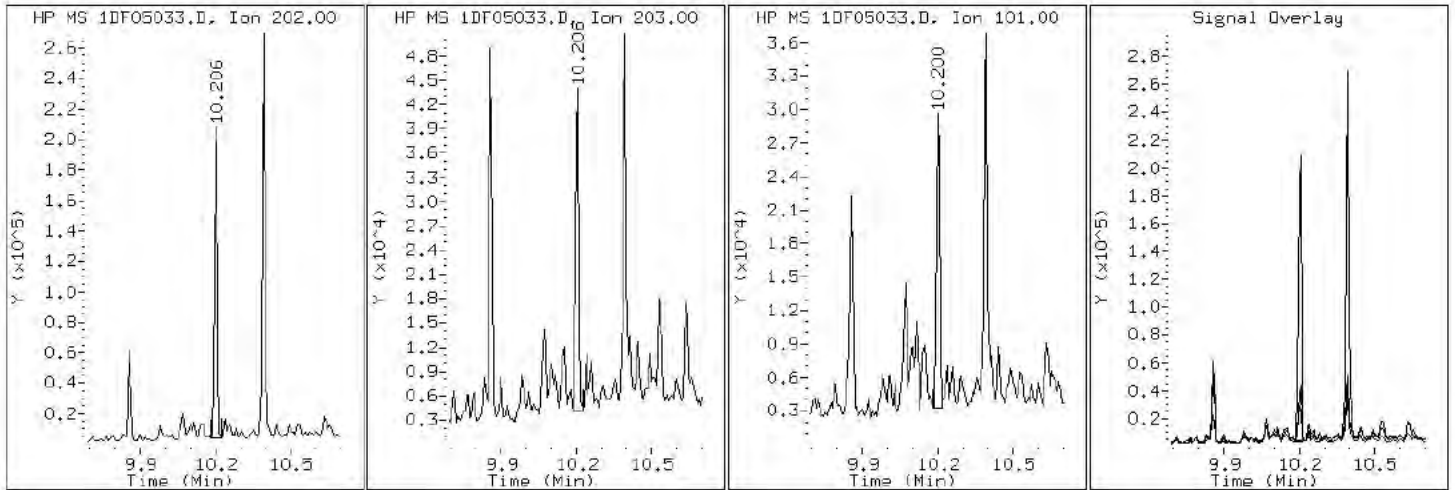
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

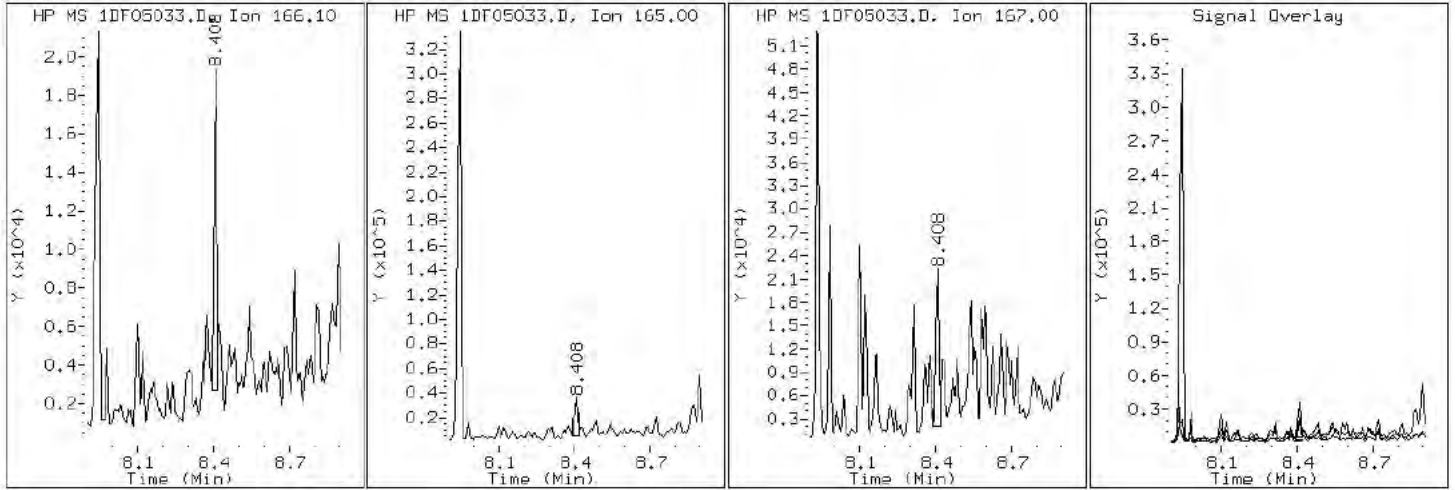
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

10 Fluorene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

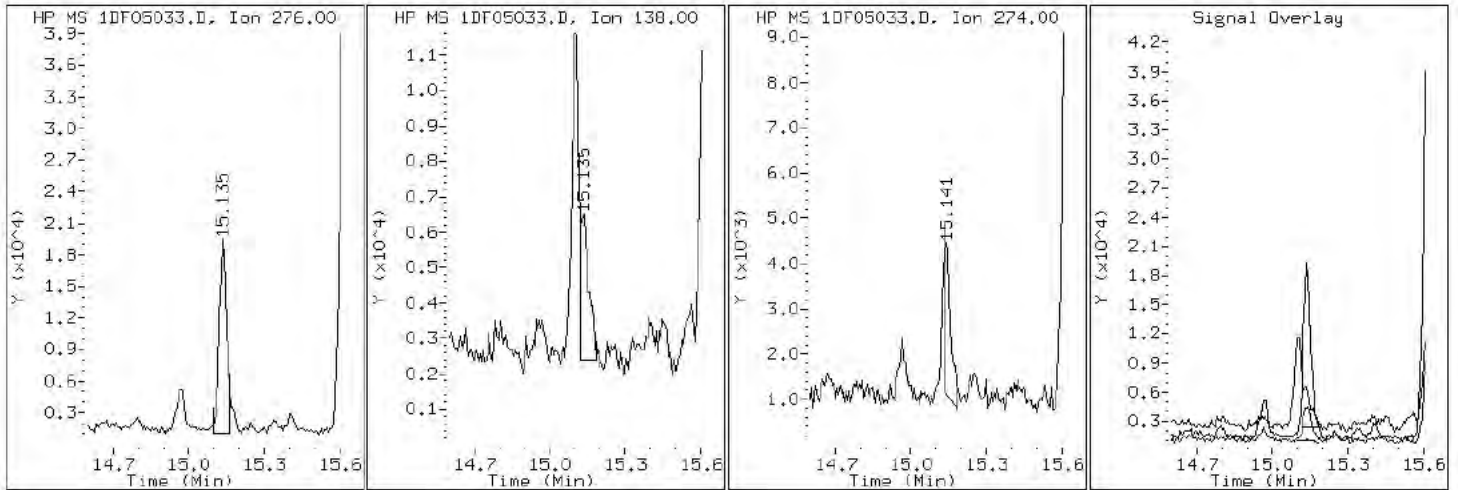
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

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



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

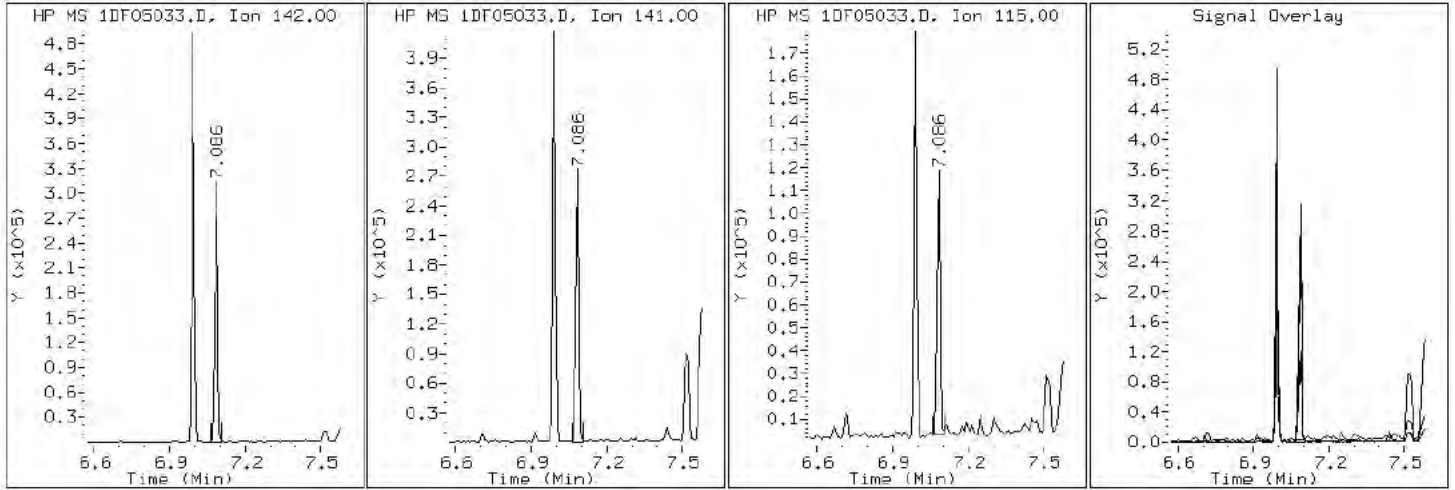
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

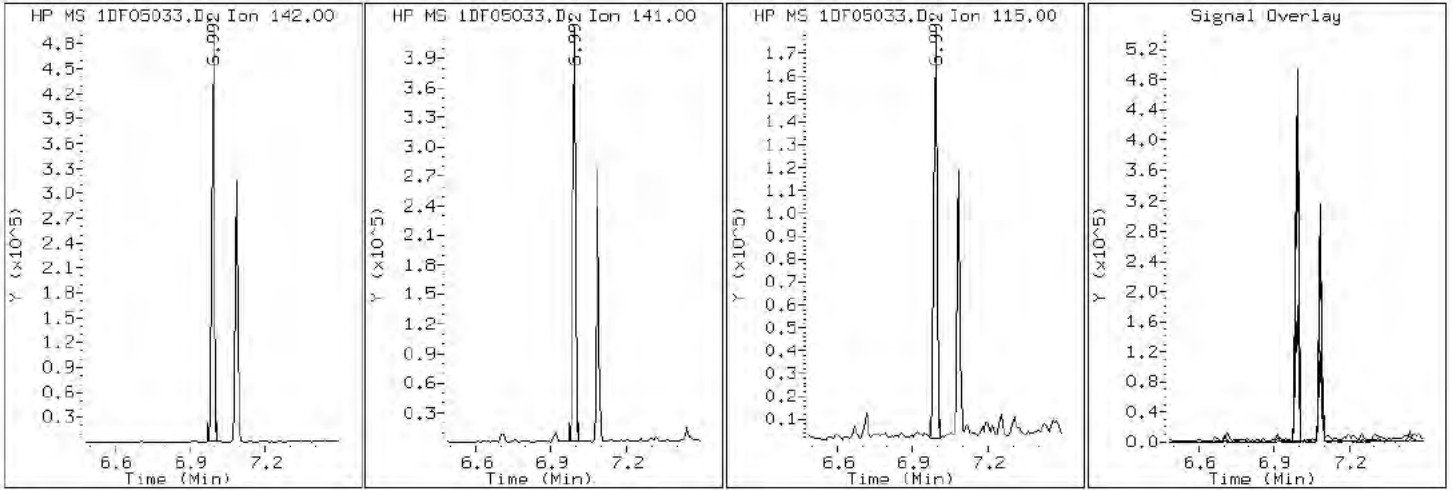
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

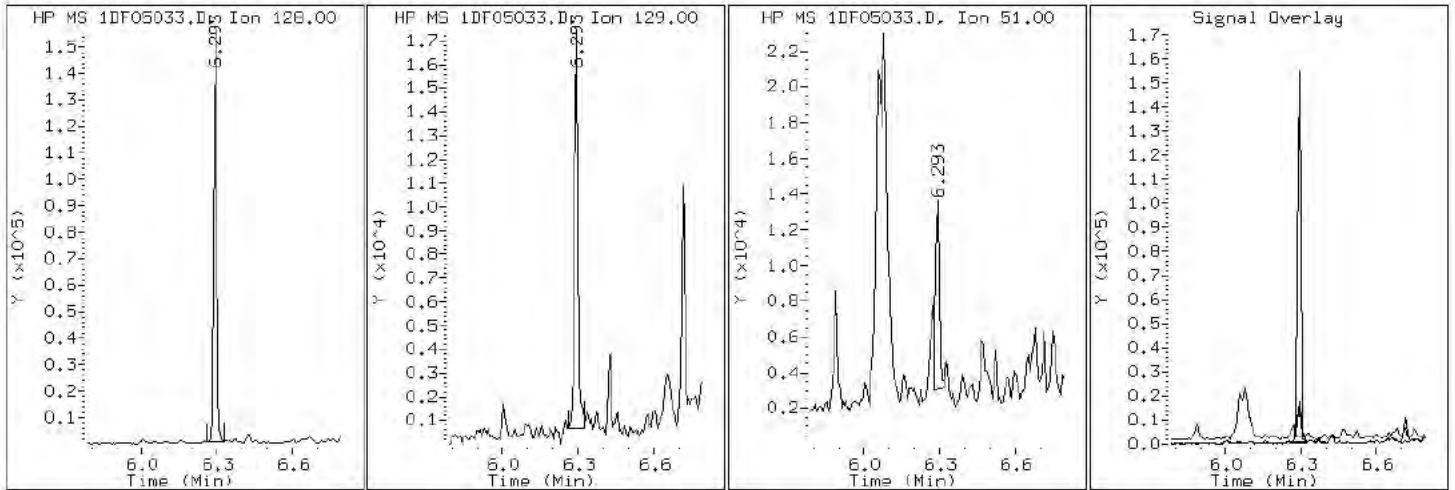
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

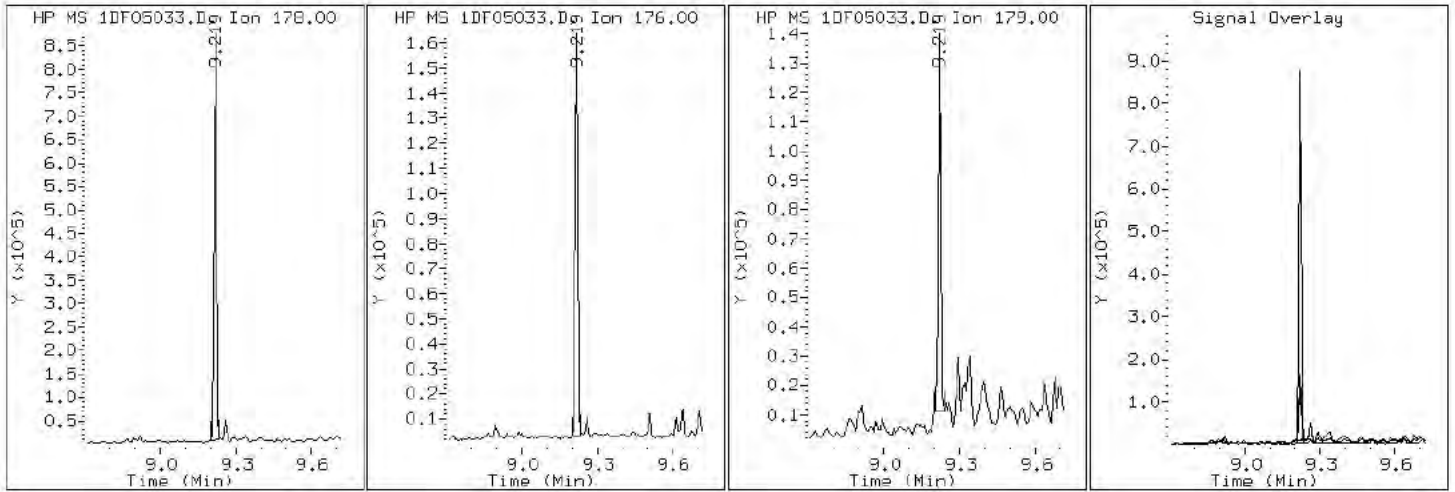
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05033.D

Date: 05-JUN-2013 23:12

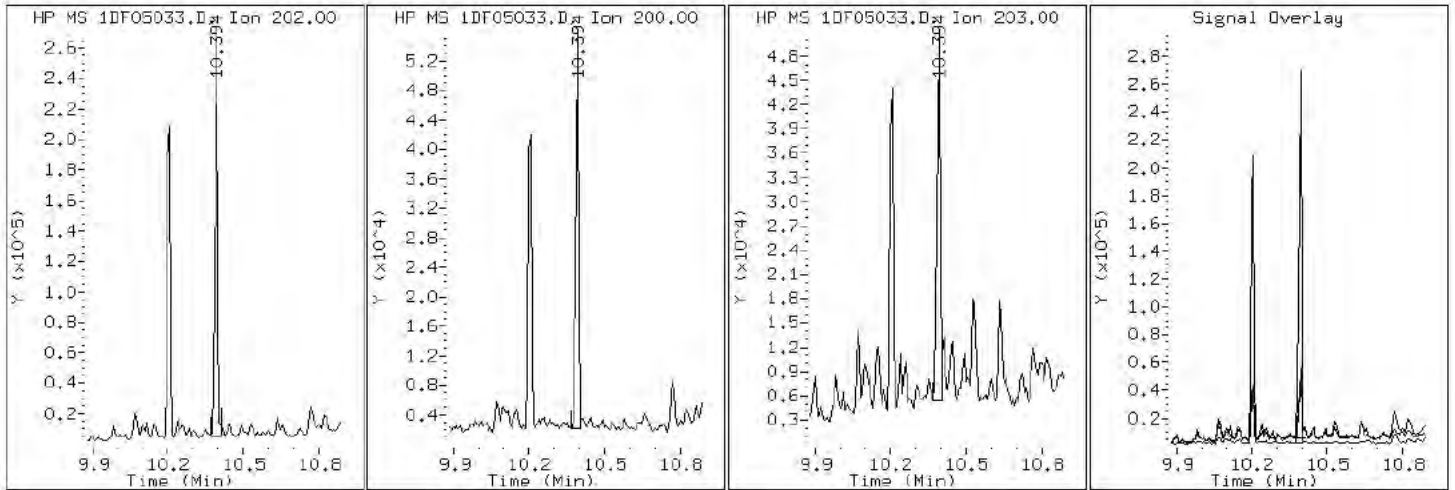
Client ID: FM0322B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-10-a

Operator: SCC

17 Pyrene

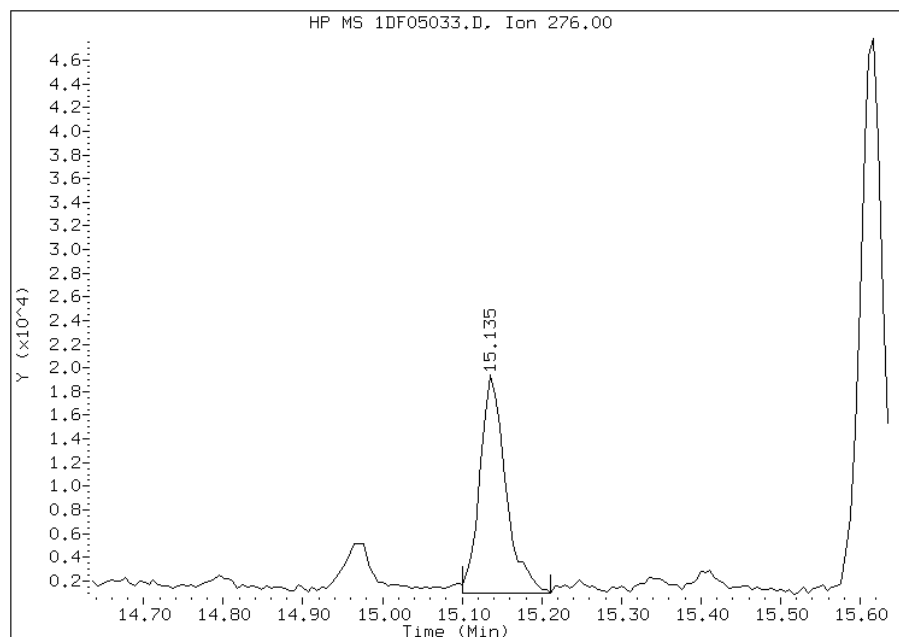


# Manual Integration Report

Data File: 1DF05033.D  
Inj. Date and Time: 05-JUN-2013 23:12  
Instrument ID: BSMSD.i  
Client ID: FM0322B-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

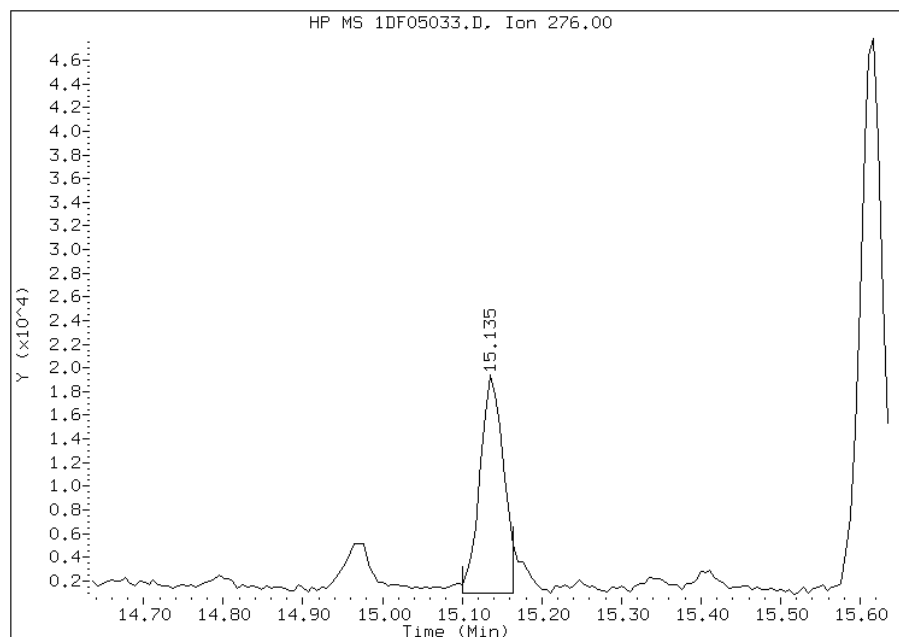
## Processing Integration Results

RT: 15.14  
Response: 40982  
Amount: 1  
Conc: 54



## Manual Integration Results

RT: 15.14  
Response: 37606  
Amount: 1  
Conc: 50



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:26  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0348A-CS-SP Lab Sample ID: 680-90852-11  
 Matrix: Solid Lab File ID: 1DF05034.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 14:28  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.00(g) Date Analyzed: 06/05/2013 23:34  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 12.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	91
208-96-8	Acenaphthylene	280		180	23
120-12-7	Anthracene	390		38	19
56-55-3	Benzo[a]anthracene	750		37	18
50-32-8	Benzo[a]pyrene	810		48	24
205-99-2	Benzo[b]fluoranthene	1400		56	28
191-24-2	Benzo[g,h,i]perylene	370		91	20
207-08-9	Benzo[k]fluoranthene	540		37	16
218-01-9	Chrysene	910		41	21
53-70-3	Dibenz(a,h)anthracene	150		91	19
206-44-0	Fluoranthene	1700		91	18
86-73-7	Fluorene	79	J	91	19
193-39-5	Indeno[1,2,3-cd]pyrene	410		91	32
90-12-0	1-Methylnaphthalene	140	J	180	20
91-57-6	2-Methylnaphthalene	170	J	180	32
91-20-3	Naphthalene	170	J	180	20
85-01-8	Phenanthrene	1100		37	18
129-00-0	Pyrene	1200		91	17

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05034.D  
 Lab Smp Id: 680-90852-A-11-A Client Smp ID: FM0348A-CS-SP  
 Inj Date : 05-JUN-2013 23:34  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-11-a  
 Misc Info : 680-90852-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 34  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	12.555	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.275	6.265	(1.000)	2802343	40.0000	
* 7 Acenaphthene-d10	164		7.944	7.934	(1.000)	1586219	40.0000	
* 11 Phenanthrene-d10	188		9.201	9.191	(1.000)	2496807	40.0000	
\$ 15 o-Terphenyl	230		9.507	9.503	(1.033)	71976	1.96769	600
* 19 Chrysene-d12	240		11.569	11.553	(1.000)	2692424	40.0000	
* 24 Perylene-d12	264		13.479	13.457	(1.000)	2334784	40.0000	
2 Naphthalene	128		6.293	6.289	(1.003)	37858	0.54782	170
3 2-Methylnaphthalene	142		6.992	6.988	(1.114)	24449	0.55564	170
4 1-Methylnaphthalene	142		7.086	7.076	(1.129)	20321	0.44859	140
5 1,1'-Biphenyl	154		7.427	7.423	(0.935)	6606	0.12327	38
6 Acenaphthylene	152		7.815	7.811	(0.984)	59524	0.90507	280
9 Dibenzofuran	168		8.114	8.110	(1.021)	16898	0.29374	90
10 Fluorene	166		8.408	8.404	(1.058)	12213	0.25872	79
12 Phenanthrene	178		9.219	9.215	(1.002)	235577	3.48375	1100

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.260	9.256	(1.006)	83213	1.26826	390
16 Fluoranthene	202	10.200	10.196	(1.109)	385967	5.57921	1700
17 Pyrene	202	10.388	10.384	(0.898)	314919	3.99503	1200
18 Benzo(a)anthracene	228	11.551	11.542	(0.998)	196600	2.46041	750
20 Chrysene	228	11.593	11.583	(1.002)	213632	2.96904	900
21 Benzo(b)fluoranthene	252	12.909	12.893	(0.958)	260167	4.44794	1400
22 Benzo(k)fluoranthene	252	12.944	12.934	(0.960)	109243	1.78349	540
23 Benzo(a)pyrene	252	13.379	13.363	(0.993)	147607	2.64754	810
25 Indeno(1,2,3-cd)pyrene	276	15.124	15.102	(1.122)	71684	1.32923	400(M)
26 Dibenzo(a,h)anthracene	278	15.153	15.137	(1.124)	23095	0.48585	150
27 Benzo(g,h,i)perylene	276	15.600	15.572	(1.157)	64850	1.22325	370

QC Flag Legend

M - Compound response manually integrated.



Data File: 1DF05034.D

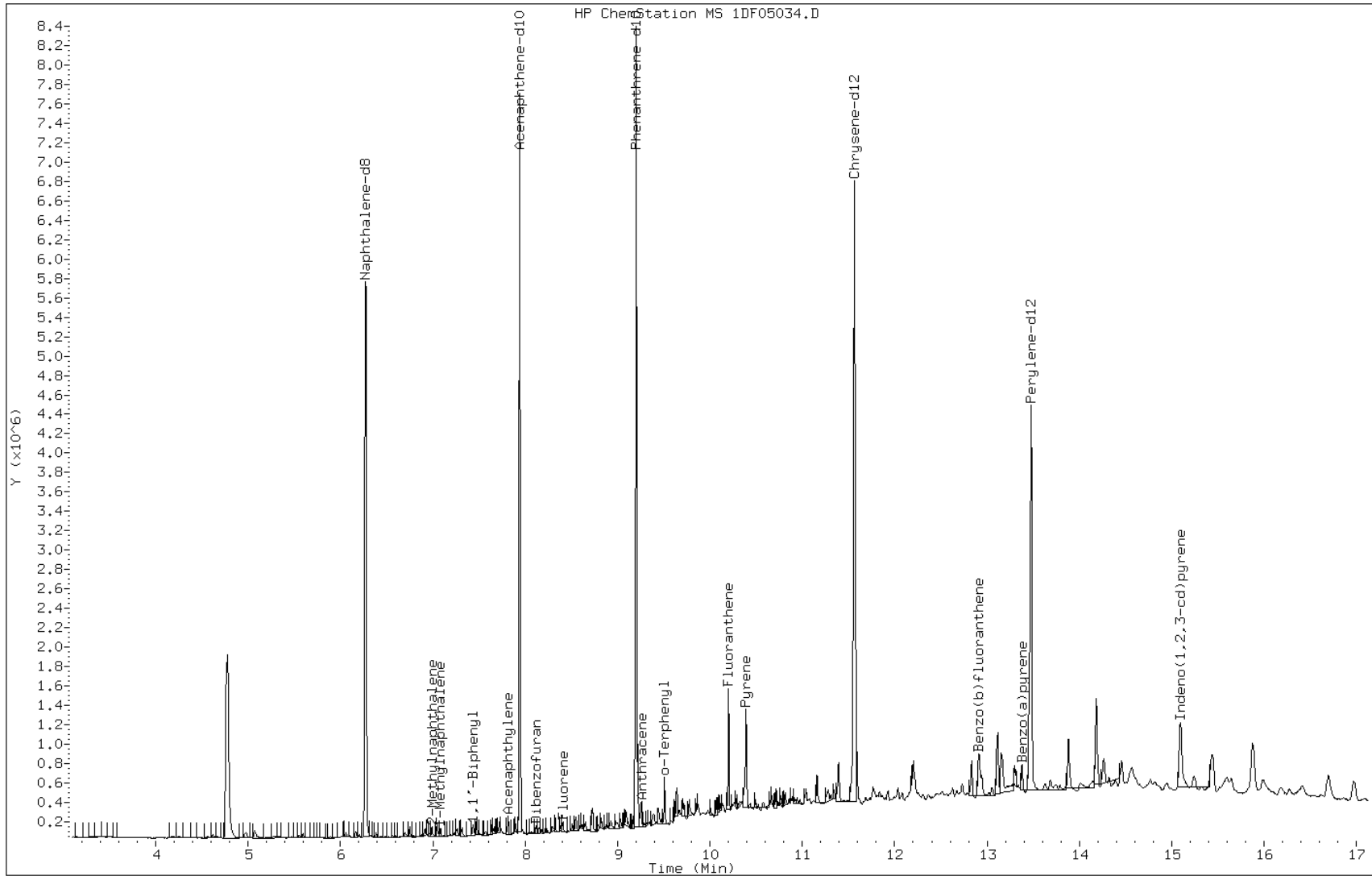
Date: 05-JUN-2013 23:34

Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

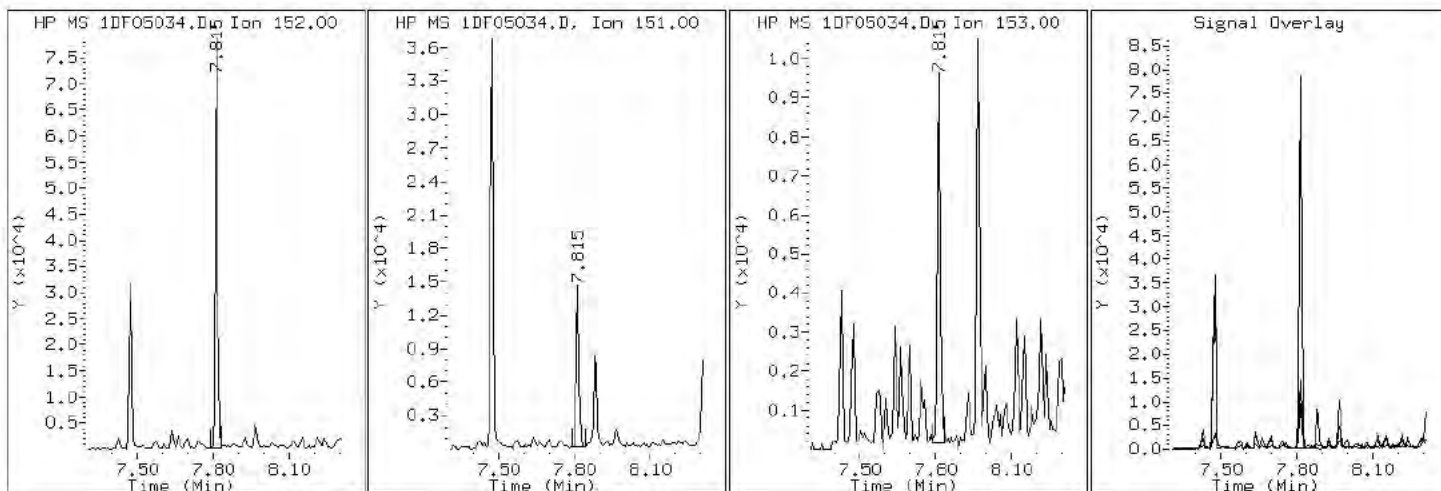
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

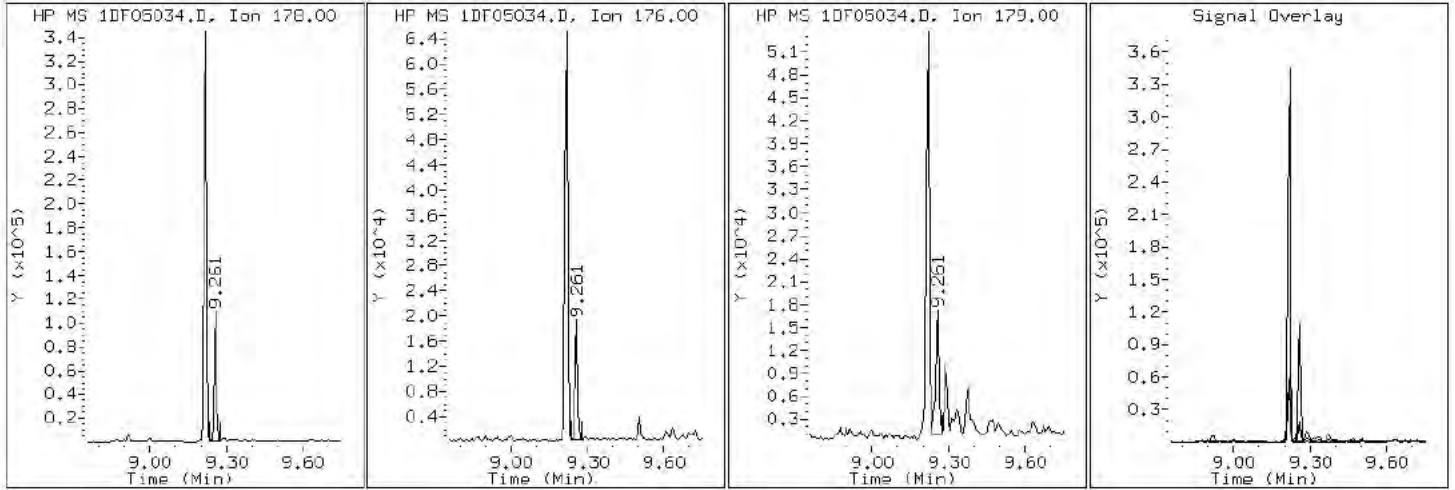
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

13 Anthracene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

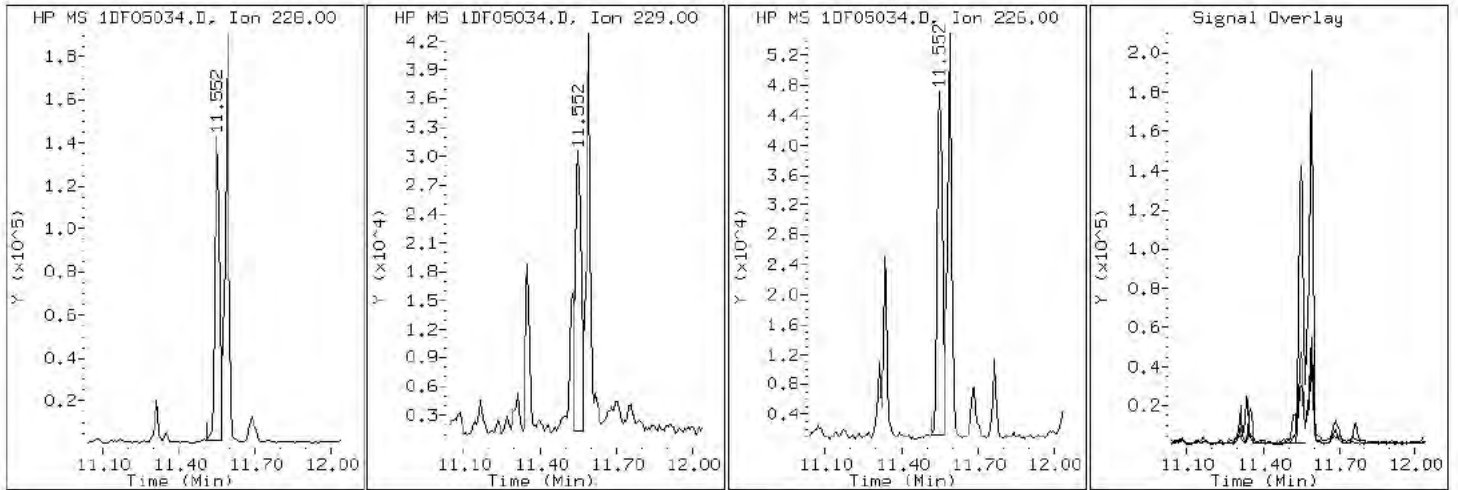
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

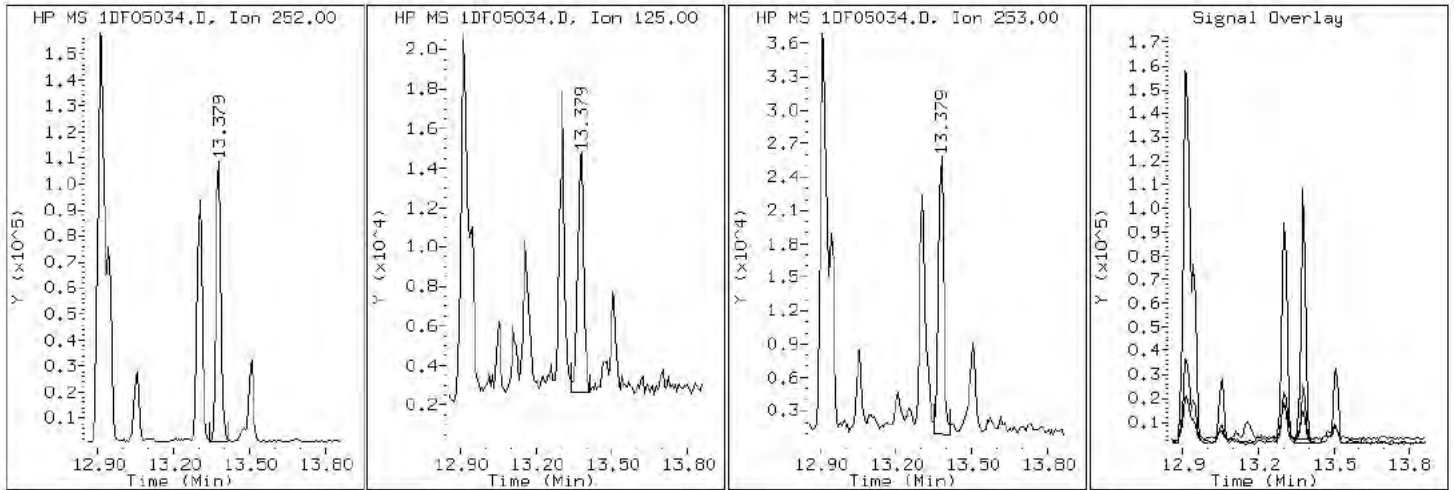
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

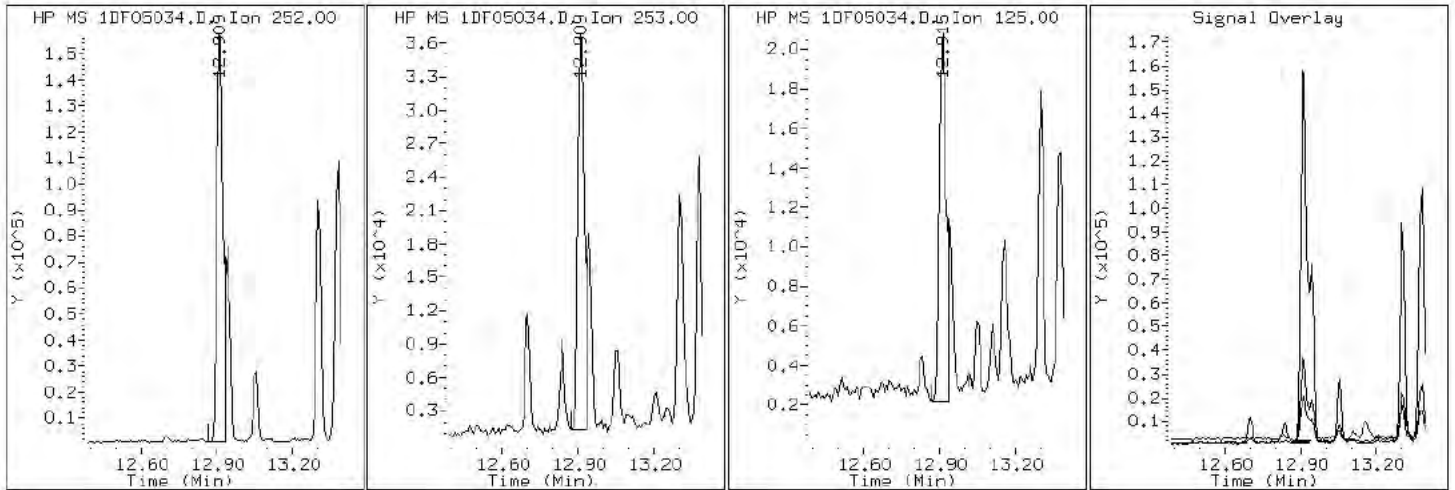
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

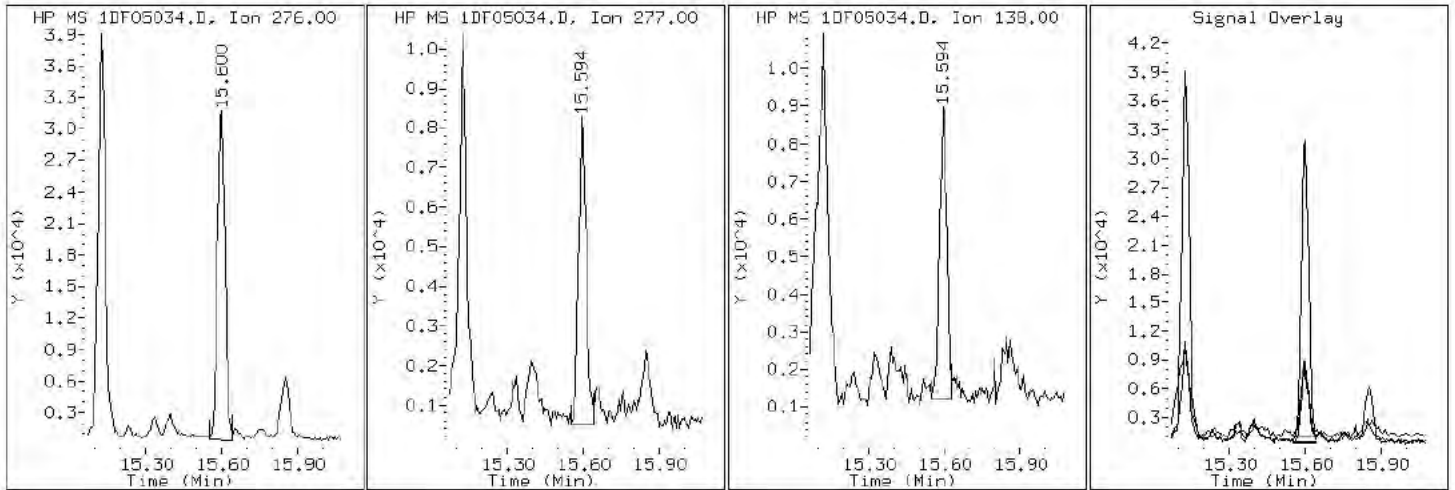
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

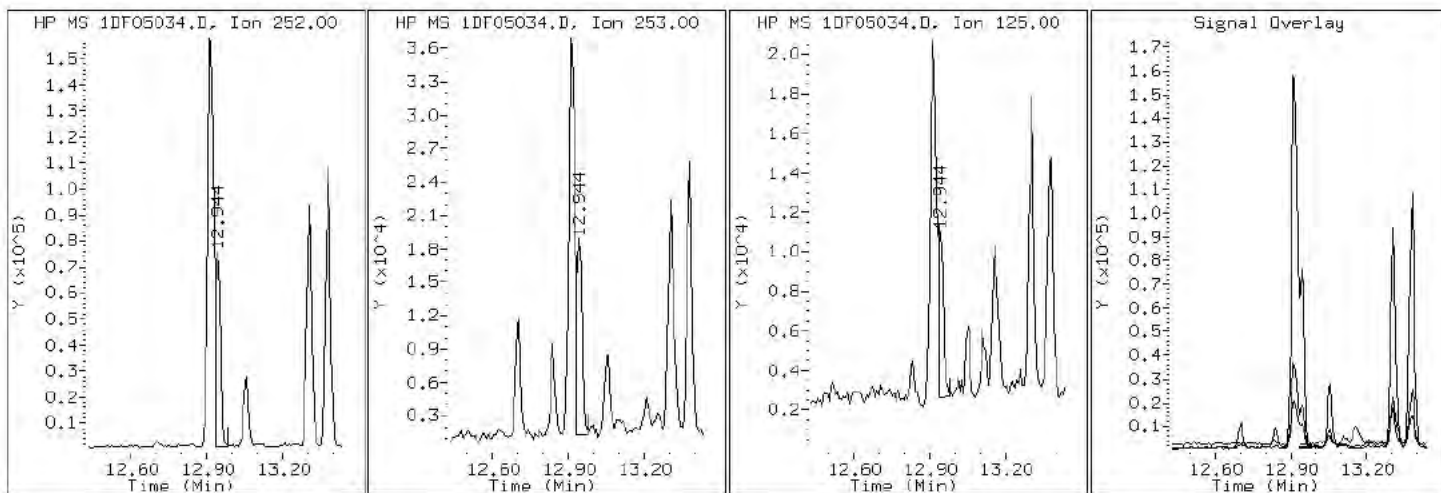
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

22 Benzo(k)fluoranthene





Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

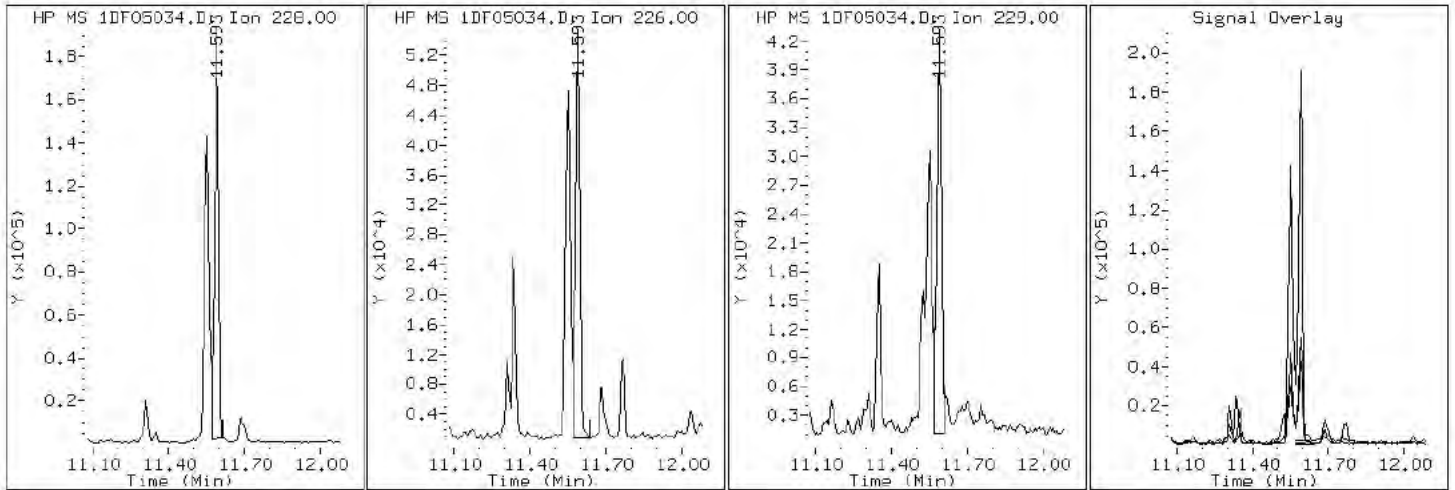
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

20 Chrysene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

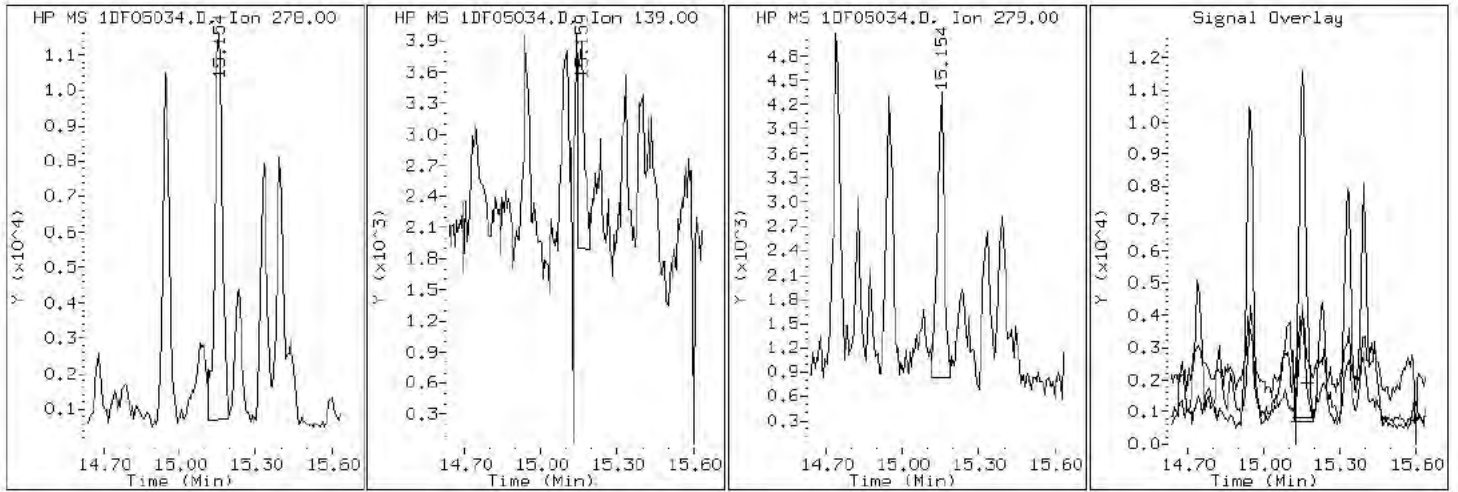
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

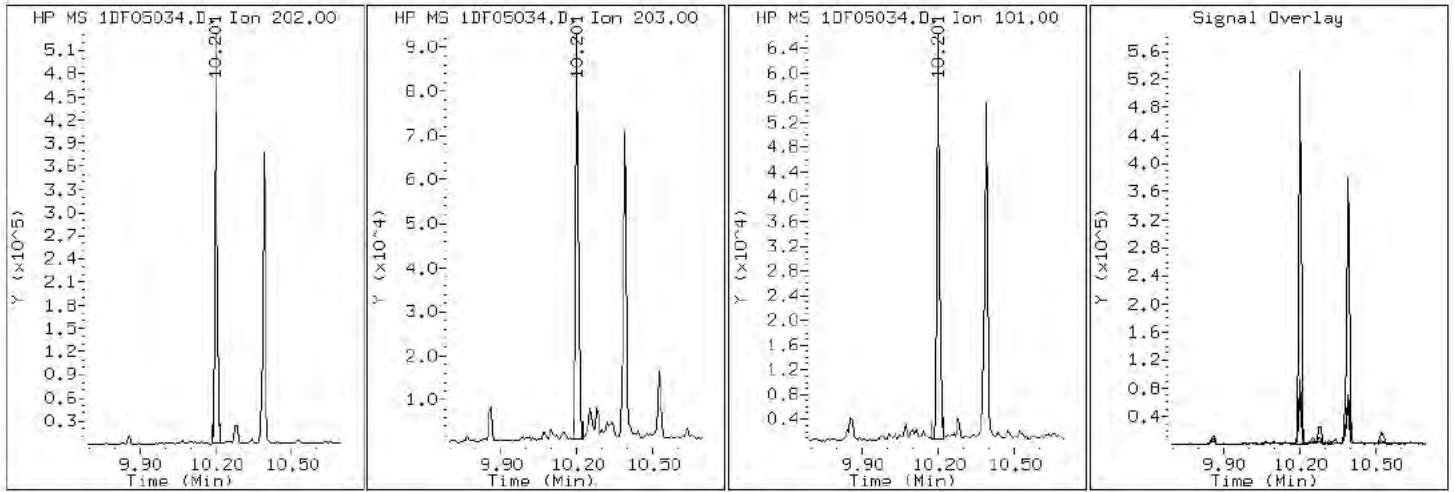
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

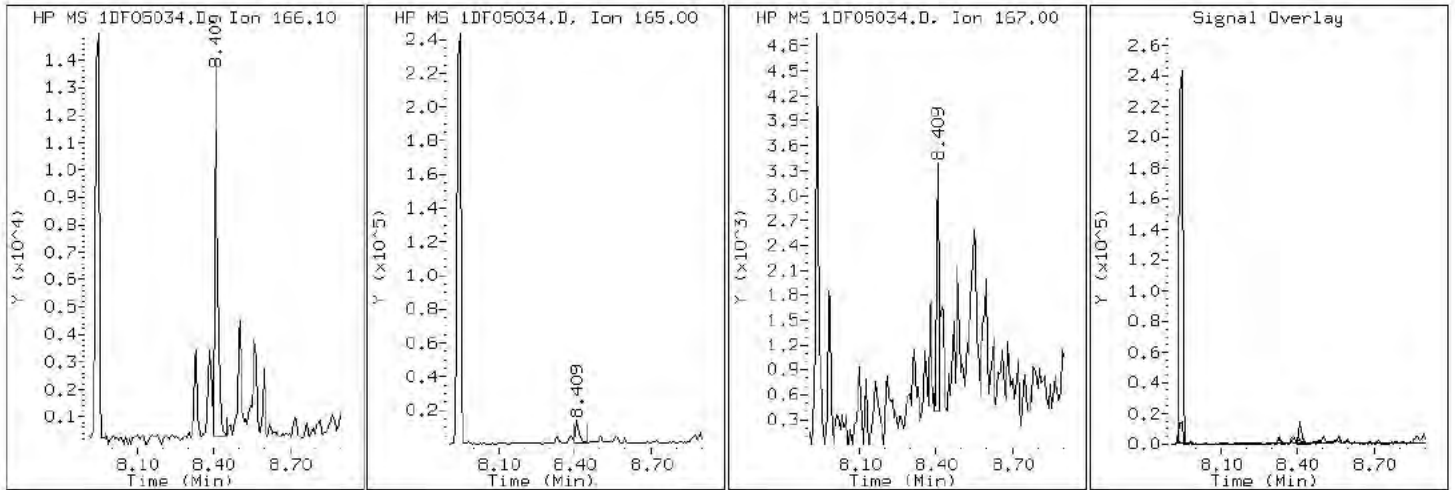
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

10 Fluorene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

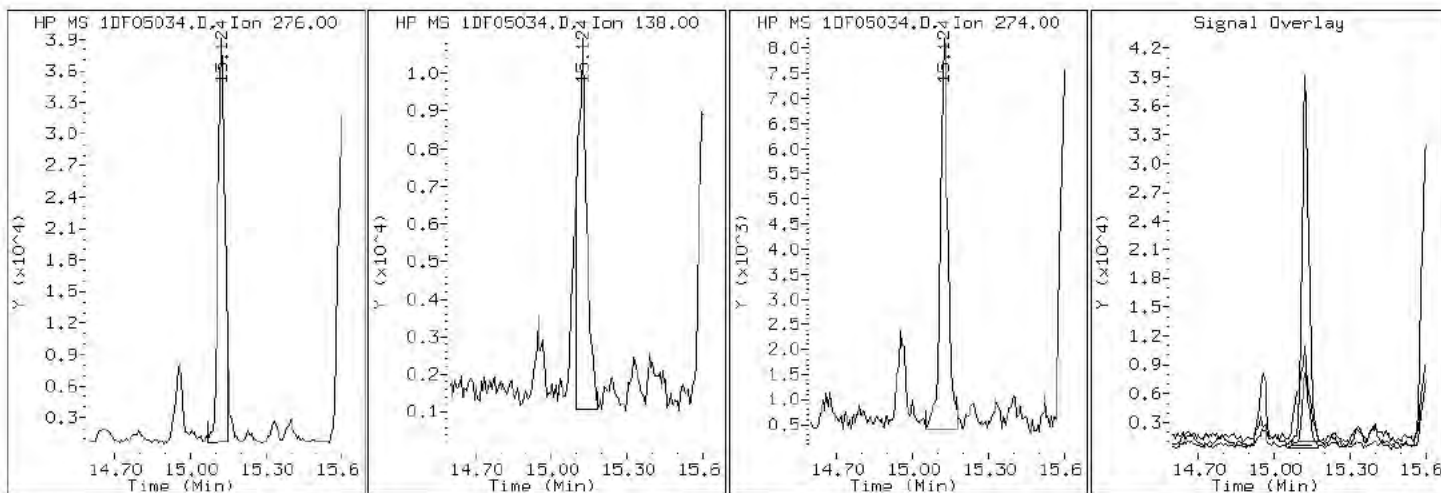
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

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



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

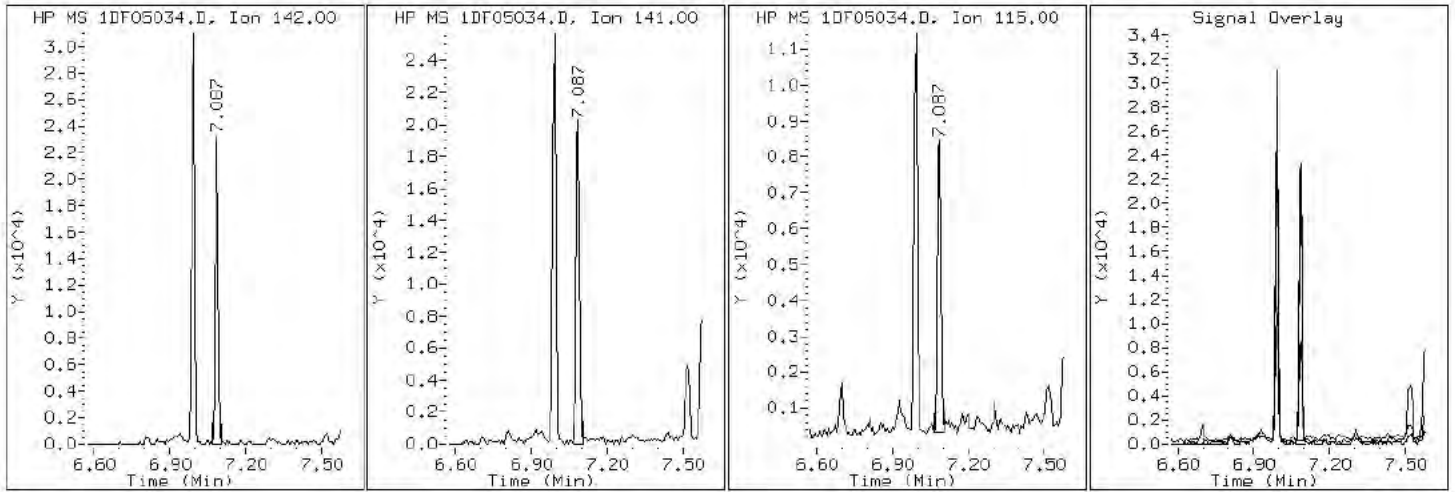
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

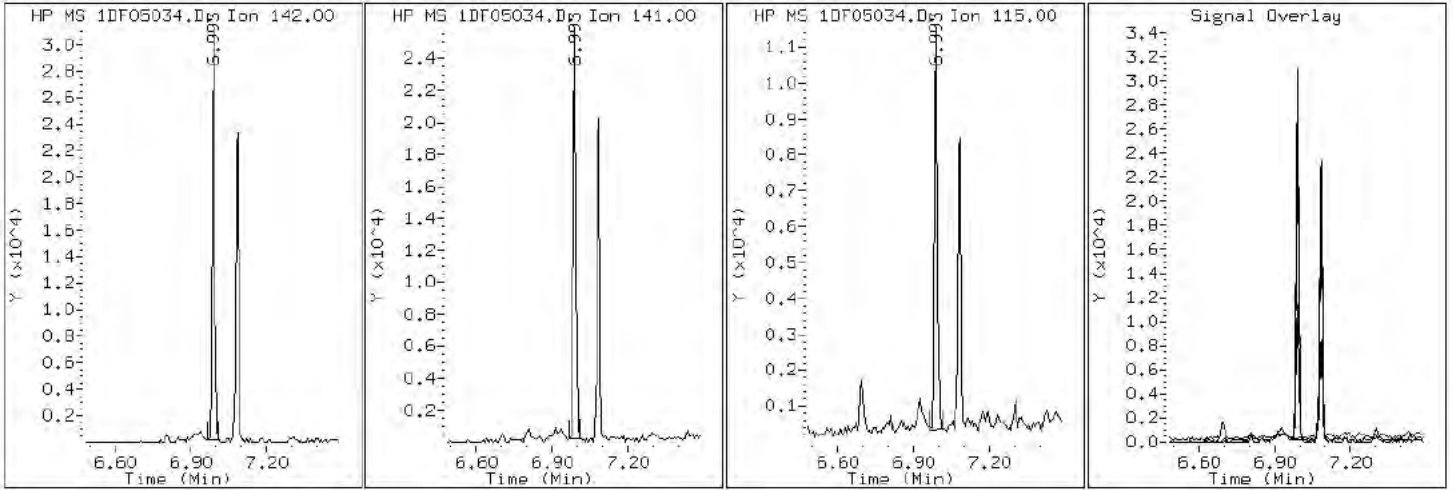
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

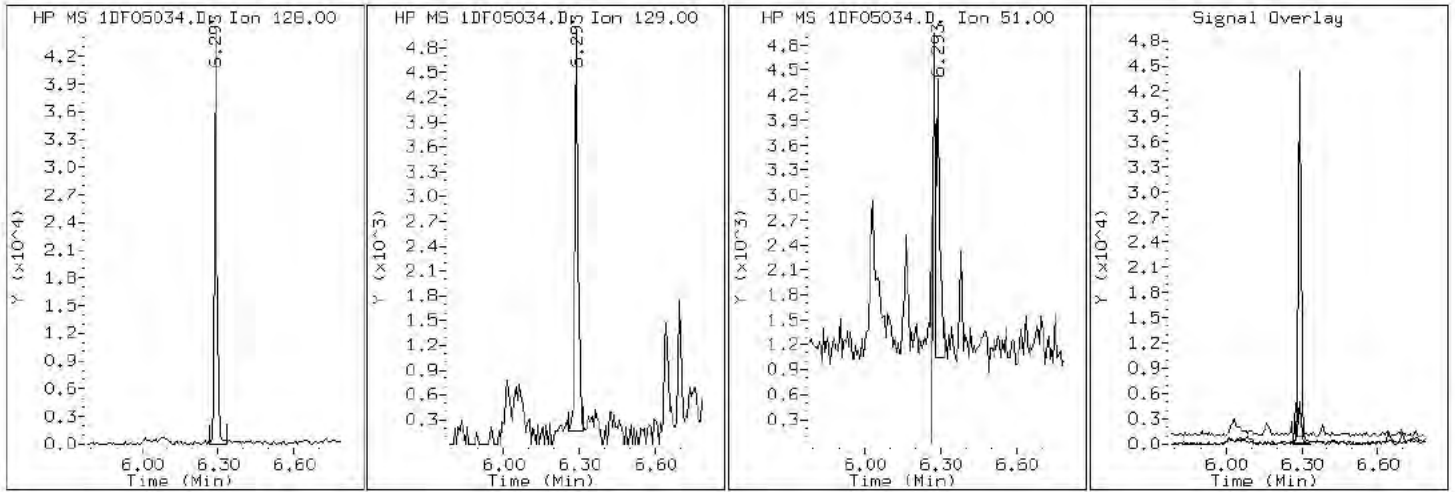
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

2 Naphthalene





Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

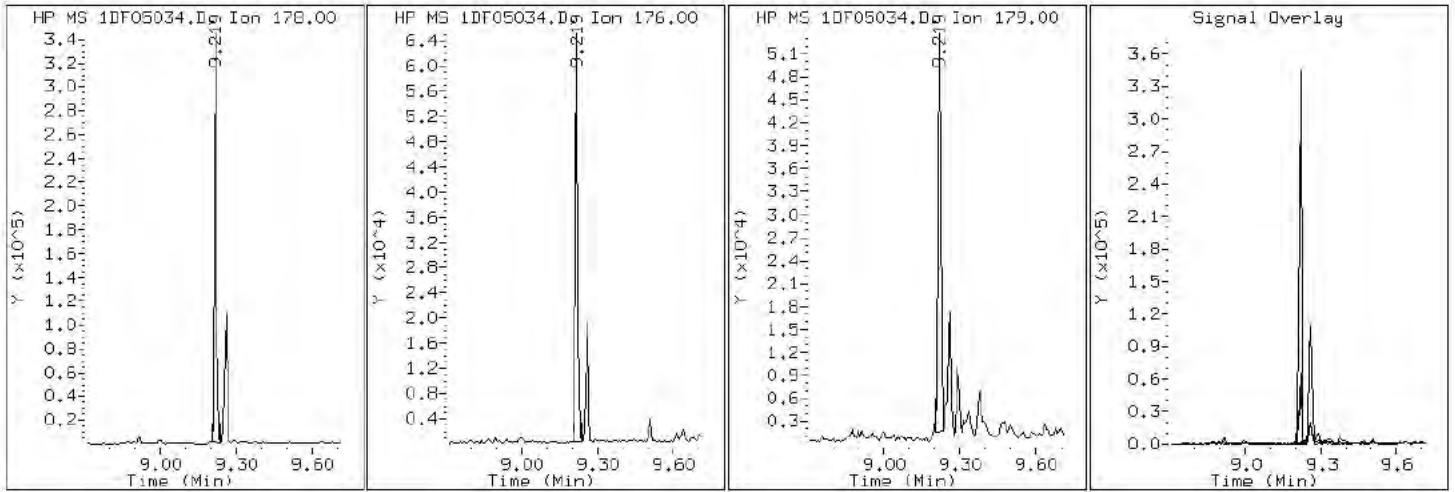
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05034.D

Date: 05-JUN-2013 23:34

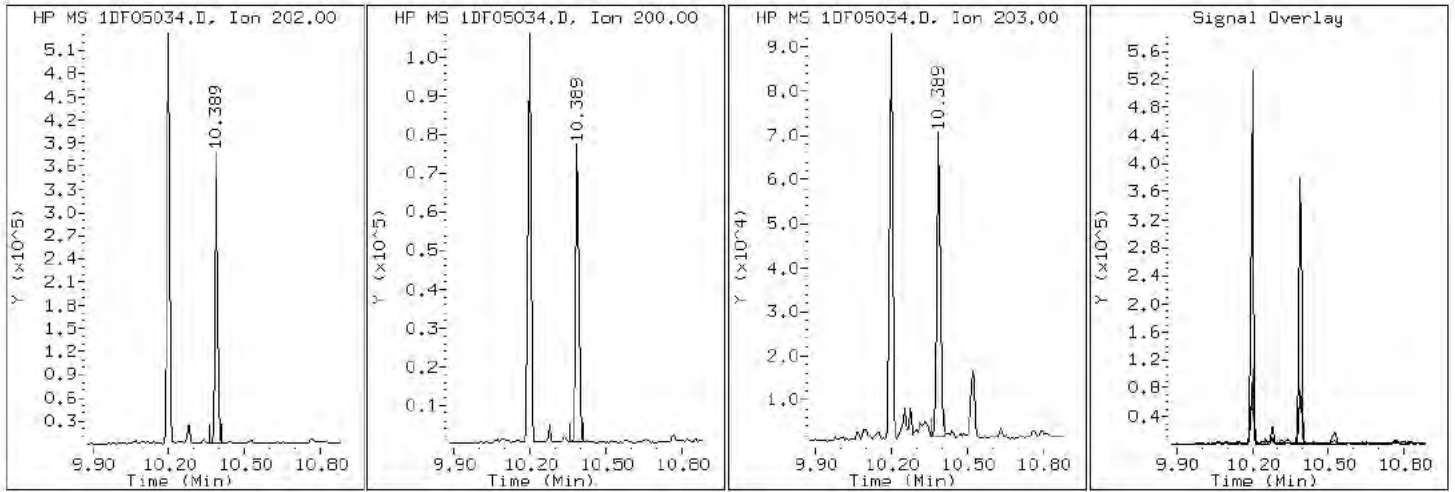
Client ID: FM0348A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-11-a

Operator: SCC

17 Pyrene

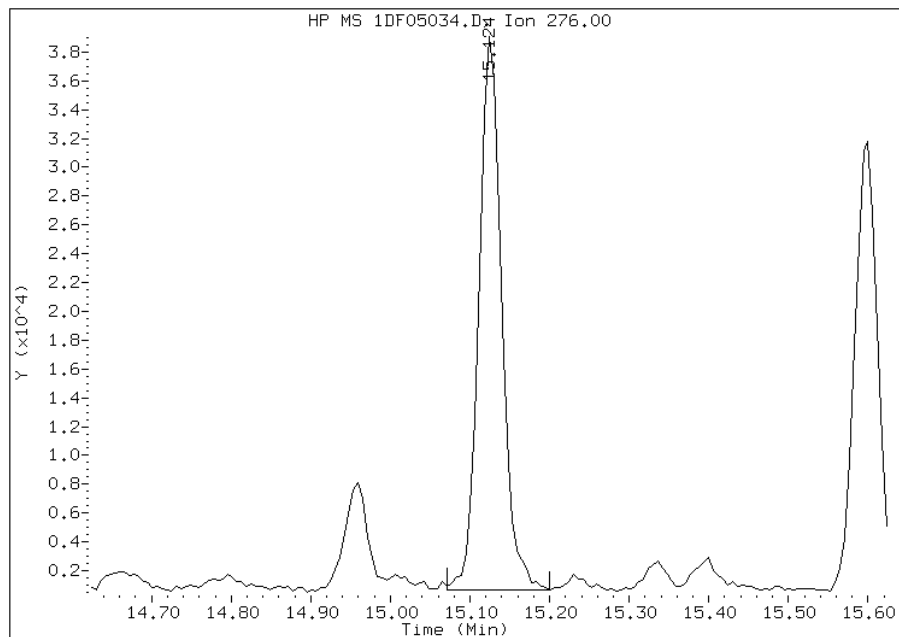


# Manual Integration Report

Data File: 1DF05034.D  
Inj. Date and Time: 05-JUN-2013 23:34  
Instrument ID: BSMSD.i  
Client ID: FM0348A-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/09/2013

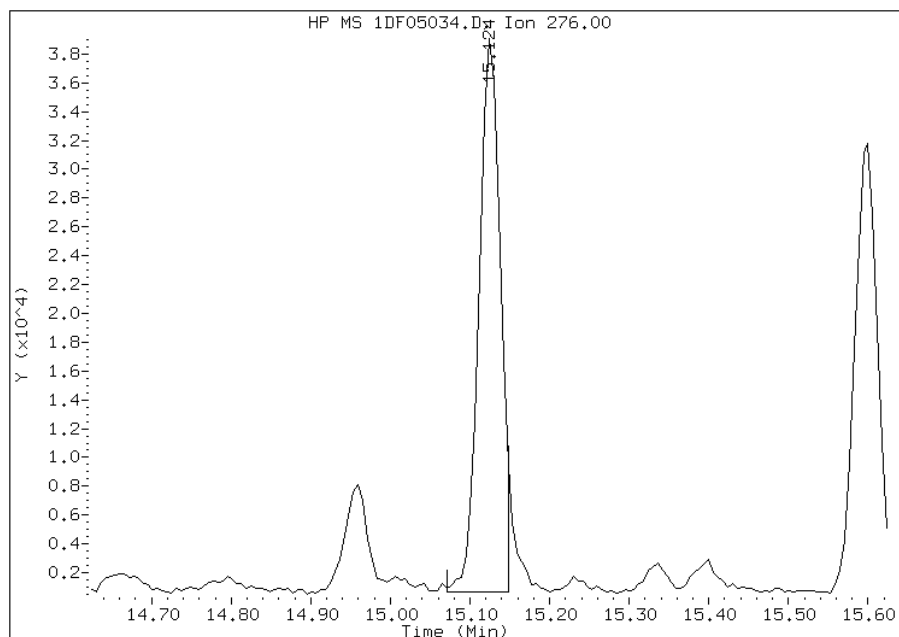
## Processing Integration Results

RT: 15.12  
Response: 76199  
Amount: 1  
Conc: 428



## Manual Integration Results

RT: 15.12  
Response: 71684  
Amount: 1  
Conc: 405



Manually Integrated By: cantins  
Modification Date: 09-Jun-2013 08:27  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0348B-CS-SP Lab Sample ID: 680-90852-12  
 Matrix: Solid Lab File ID: 1DF09008.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 14:34  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.05(g) Date Analyzed: 06/09/2013 11:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 16.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	39	J	48	6.0
120-12-7	Anthracene	48		10	5.0
56-55-3	Benzo[a]anthracene	180		9.6	4.7
50-32-8	Benzo[a]pyrene	190		12	6.2
205-99-2	Benzo[b]fluoranthene	300		15	7.3
191-24-2	Benzo[g,h,i]perylene	170		24	5.3
207-08-9	Benzo[k]fluoranthene	110		9.6	4.3
218-01-9	Chrysene	250		11	5.4
53-70-3	Dibenz(a,h)anthracene	52		24	4.9
206-44-0	Fluoranthene	330		24	4.8
86-73-7	Fluorene	15	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	150		24	8.5
90-12-0	1-Methylnaphthalene	110		48	5.3
91-57-6	2-Methylnaphthalene	100		48	8.5
91-20-3	Naphthalene	79		48	5.3
85-01-8	Phenanthrene	240		9.6	4.7
129-00-0	Pyrene	280		24	4.4

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09008.D  
 Lab Smp Id: 680-90852-A-12-A Client Smp ID: FM0348B-CS-SP  
 Inj Date : 09-JUN-2013 11:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-12-a  
 Misc Info : 680-90852-A-12-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	16.527	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.263	6.263	(1.000)	3461698	40.0000	
* 7 Acenaphthene-d10	164		7.931	7.932	(1.000)	1968299	40.0000	
* 11 Phenanthrene-d10	188		9.189	9.189	(1.000)	3246041	40.0000	
\$ 15 o-Terphenyl	230		9.494	9.500	(1.033)	377023	7.92808	630
* 19 Chrysene-d12	240		11.556	11.557	(1.000)	3178656	40.0000	
* 24 Perylene-d12	264		13.460	13.460	(1.000)	3113665	40.0000	
2 Naphthalene	128		6.280	6.281	(1.003)	84863	0.99409	79
3 2-Methylnaphthalene	142		6.979	6.980	(1.114)	70104	1.28975	100
4 1-Methylnaphthalene	142		7.073	7.074	(1.129)	74399	1.32956	100
6 Acenaphthylene	152		7.802	7.802	(0.984)	39793	0.48761	39
10 Fluorene	166		8.395	8.402	(1.059)	11300	0.19291	15
12 Phenanthrene	178		9.206	9.207	(1.002)	265870	3.02422	240
13 Anthracene	178		9.247	9.248	(1.006)	51649	0.60550	48
16 Fluoranthene	202		10.187	10.194	(1.109)	376401	4.18508	330

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.375	10.382	(0.898)	327426	3.51831	280
18 Benzo(a)anthracene	228	11.539	11.539	(0.998)	210949	2.23615	180
20 Chrysene	228	11.574	11.580	(1.002)	267570	3.14983	250
21 Benzo(b)fluoranthene	252	12.896	12.896	(0.958)	295204	3.78446	300
22 Benzo(k)fluoranthene	252	12.925	12.938	(0.960)	113177	1.38551	110
23 Benzo(a)pyrene	252	13.354	13.361	(0.992)	172781	2.33588	180
25 Indeno(1,2,3-cd)pyrene	276	15.099	15.111	(1.122)	139599	1.87291	150(M)
26 Dibenzo(a,h)anthracene	278	15.135	15.147	(1.124)	43449	0.65583	52
27 Benzo(g,h,i)perylene	276	15.575	15.587	(1.157)	155114	2.19397	170

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09008.D

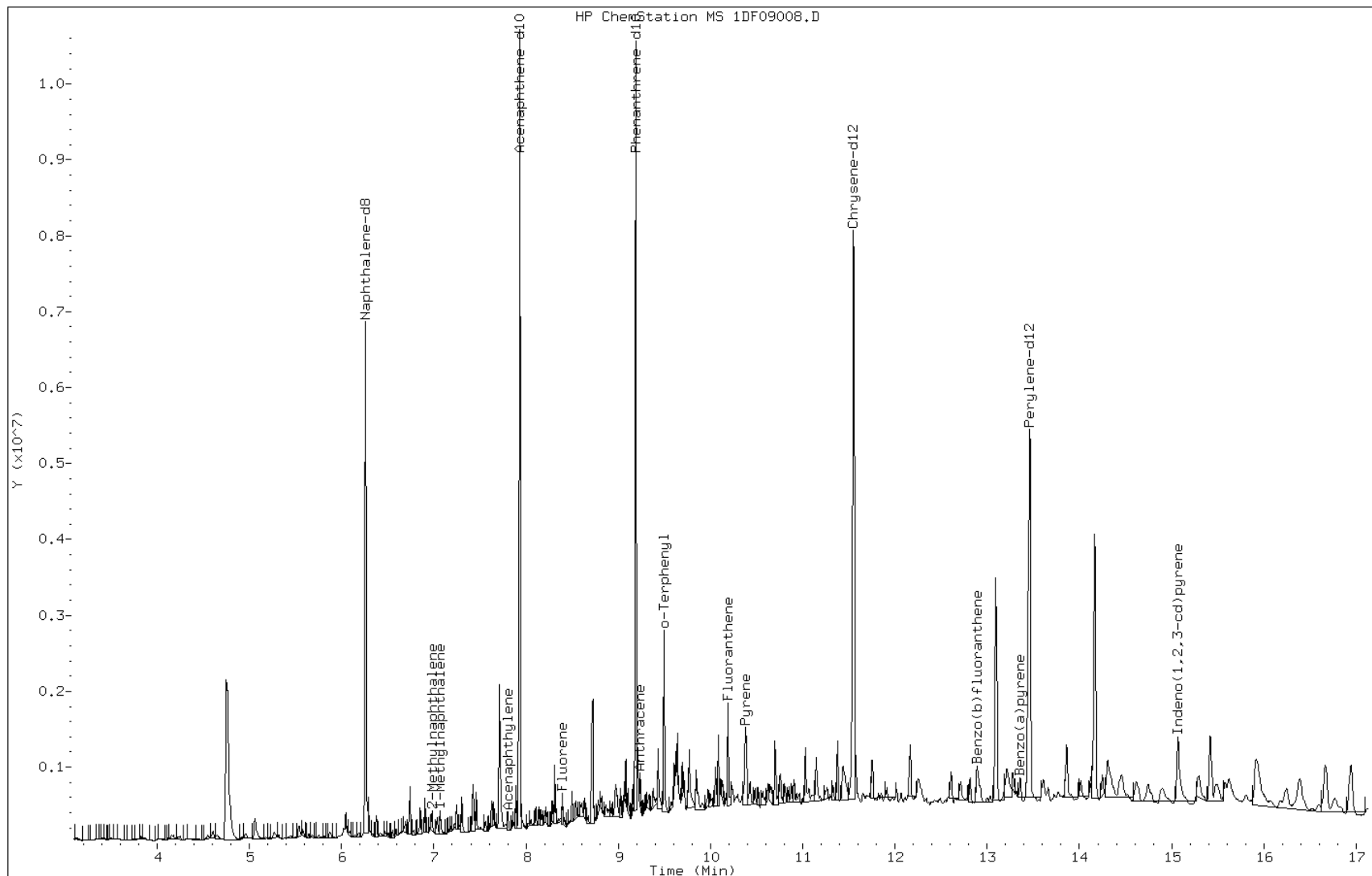
Date: 09-JUN-2013 11:57

Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

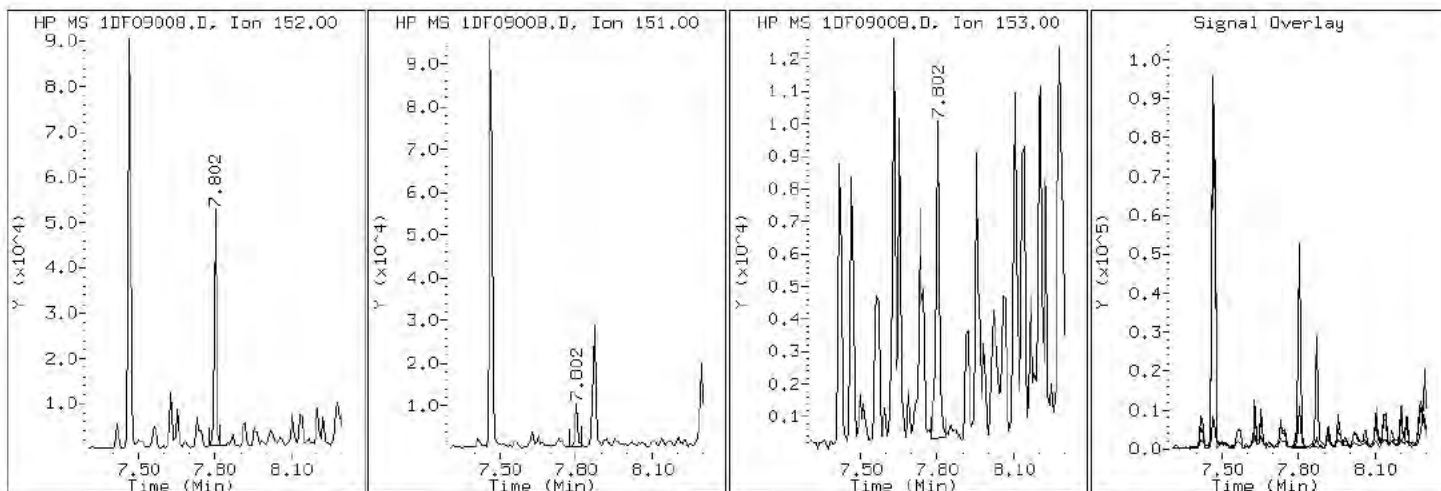
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

6 Acenaphthylene





Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

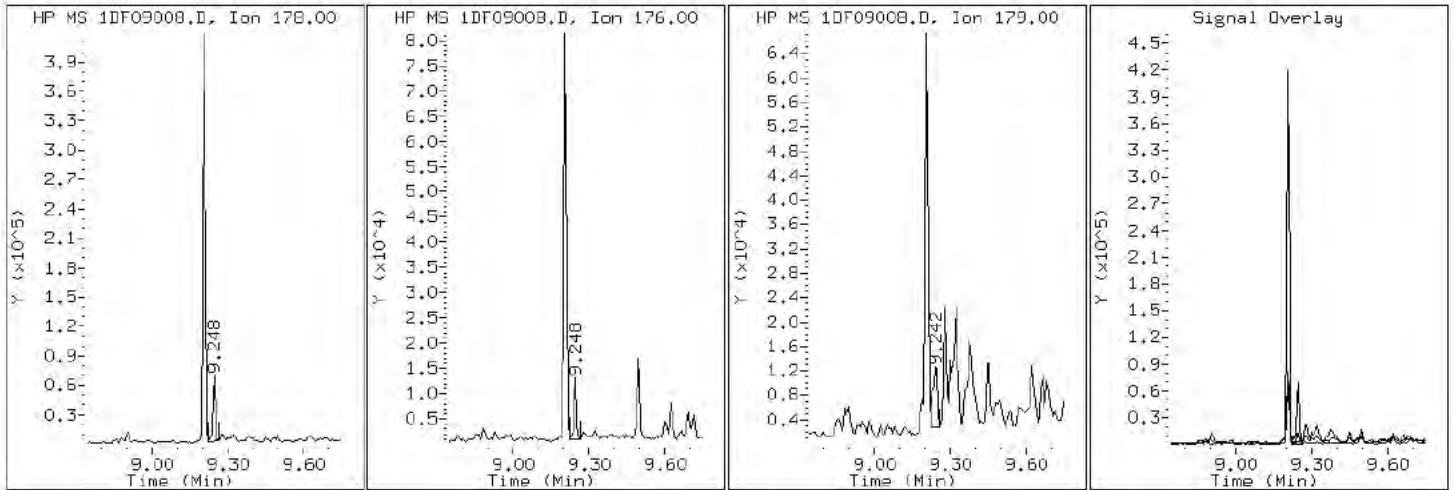
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

13 Anthracene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

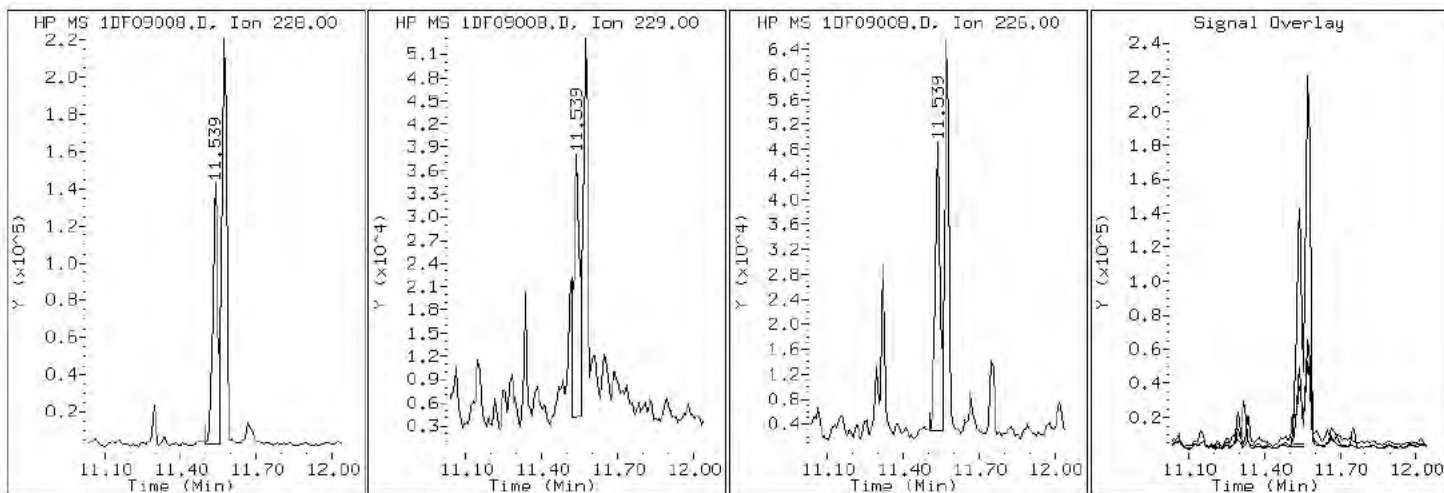
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

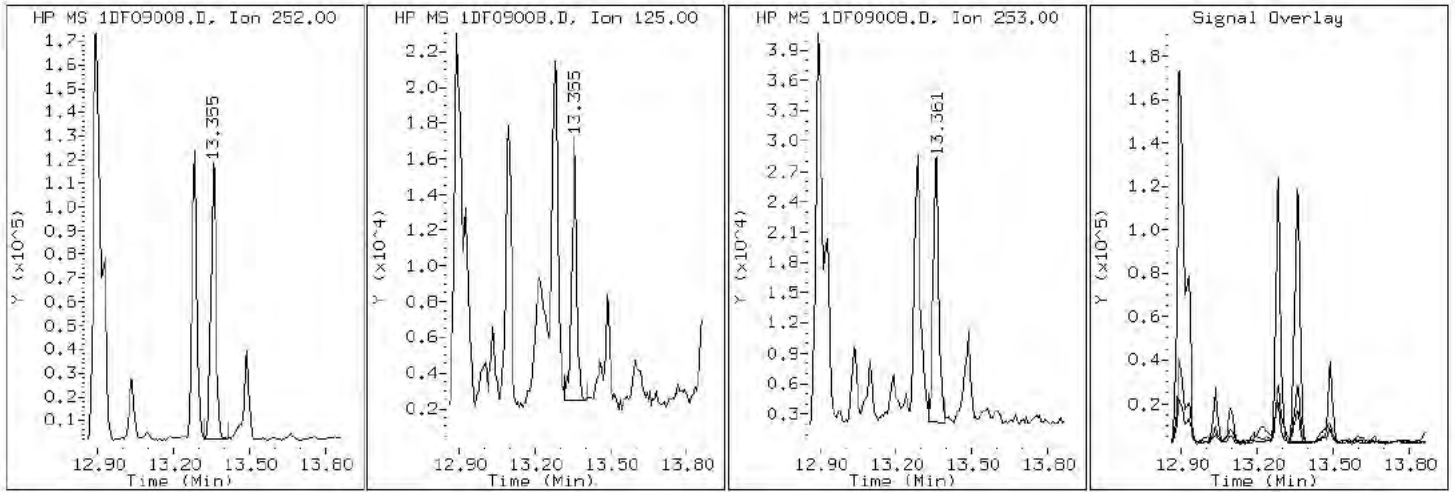
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

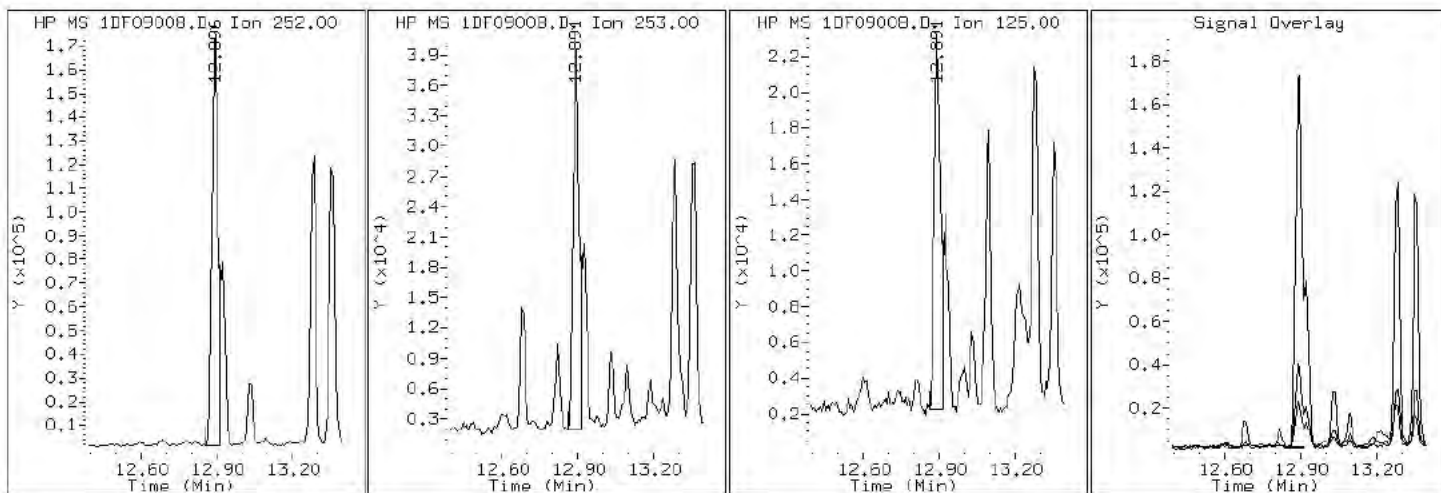
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

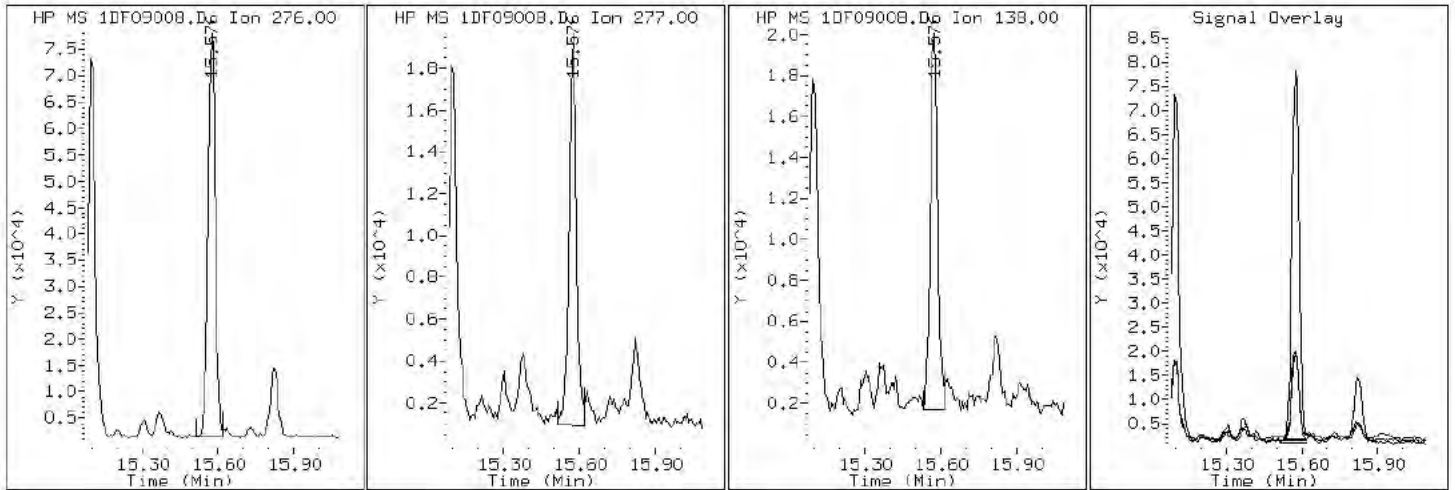
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

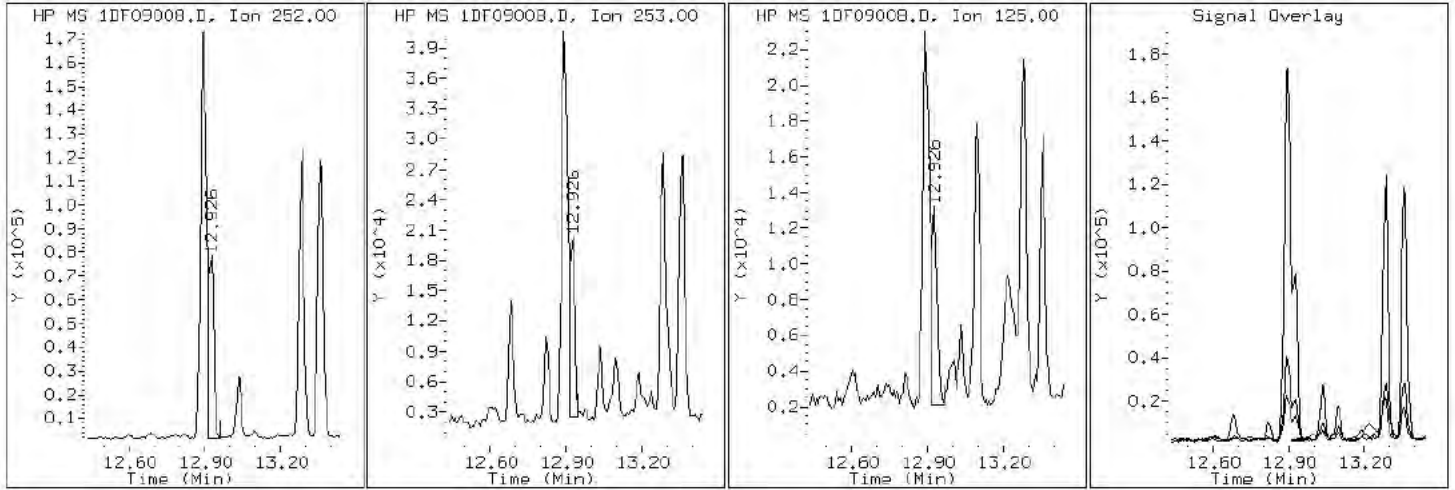
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

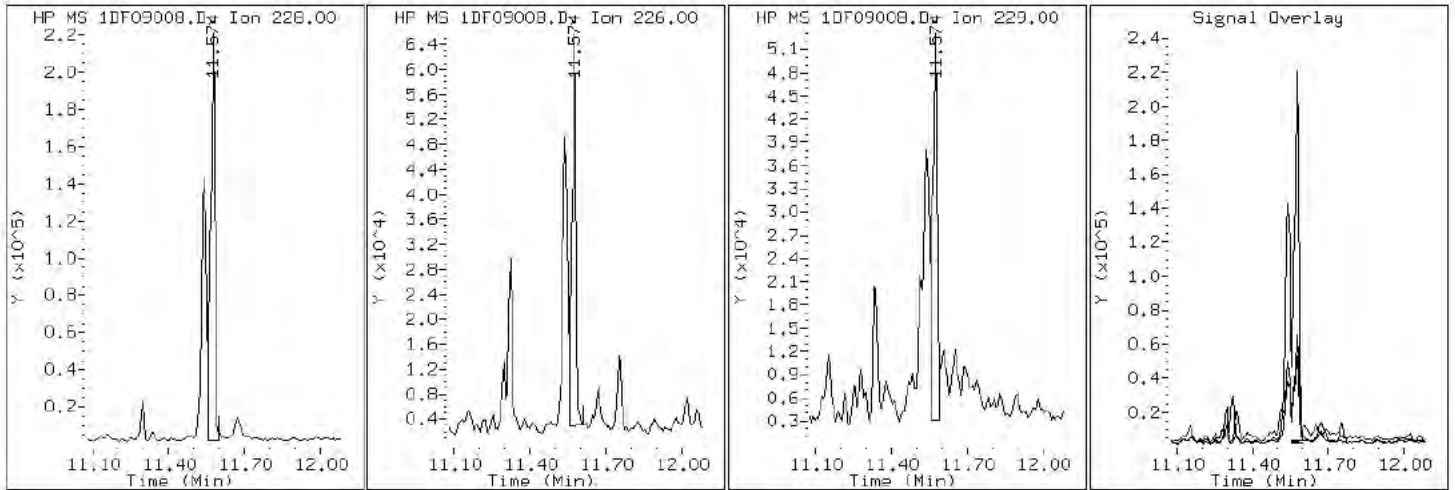
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

20 Chrysene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

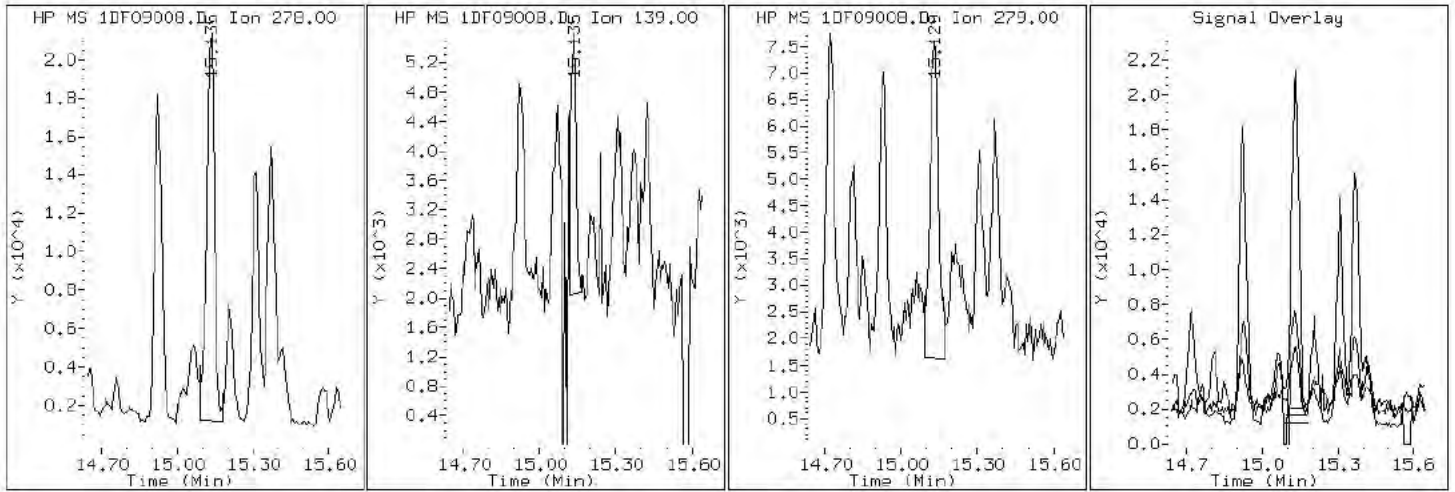
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

26 Dibenzo (a,h) anthracene





Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

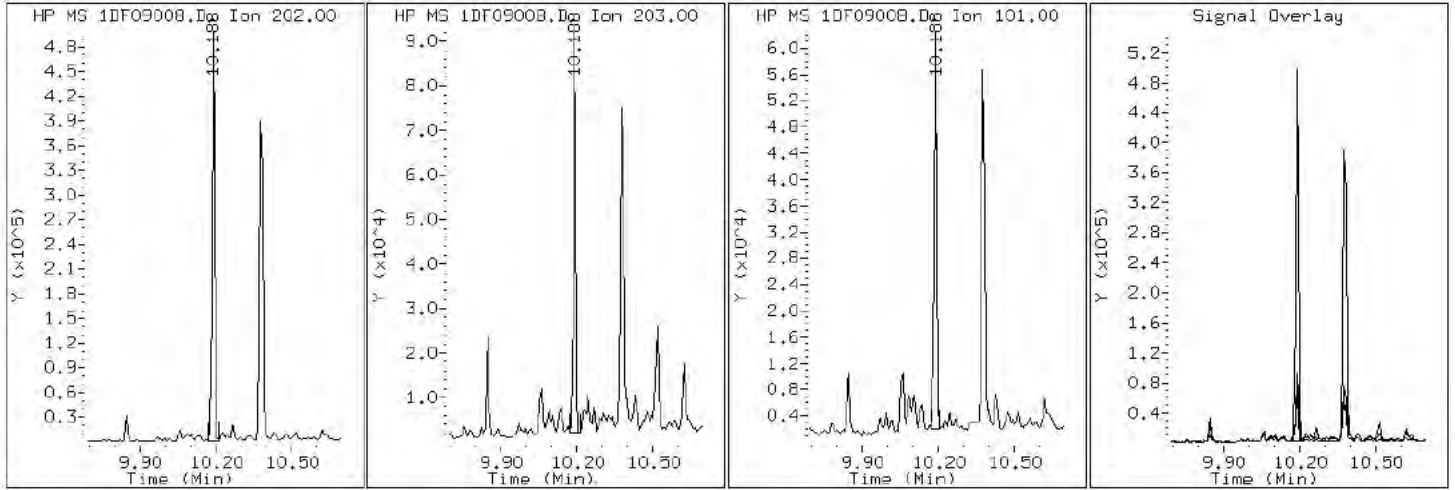
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

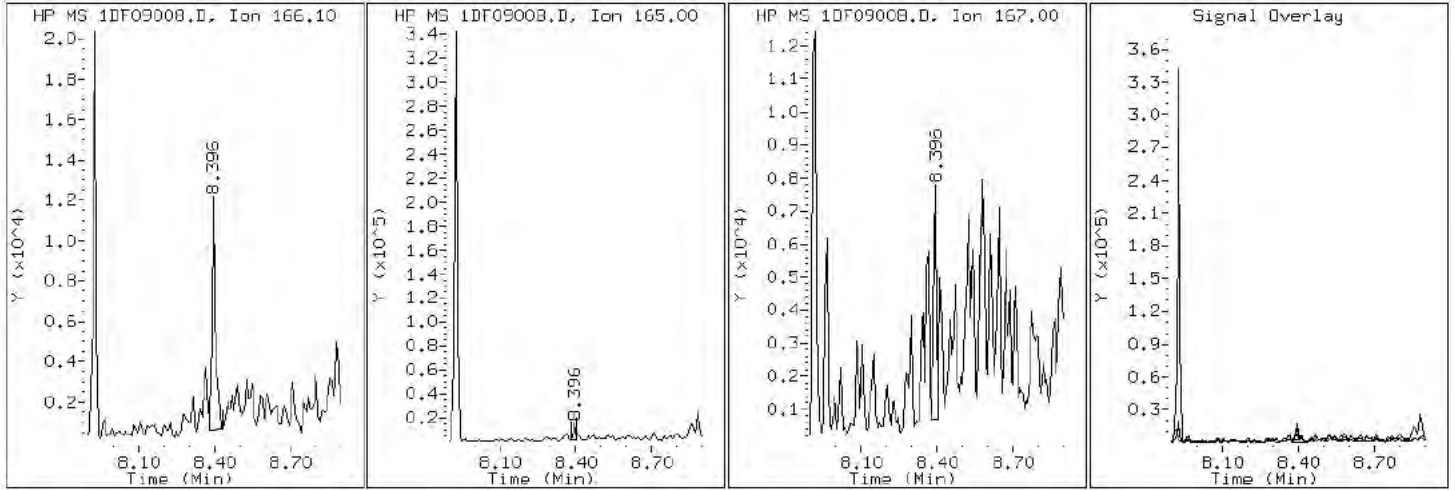
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

10 Fluorene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

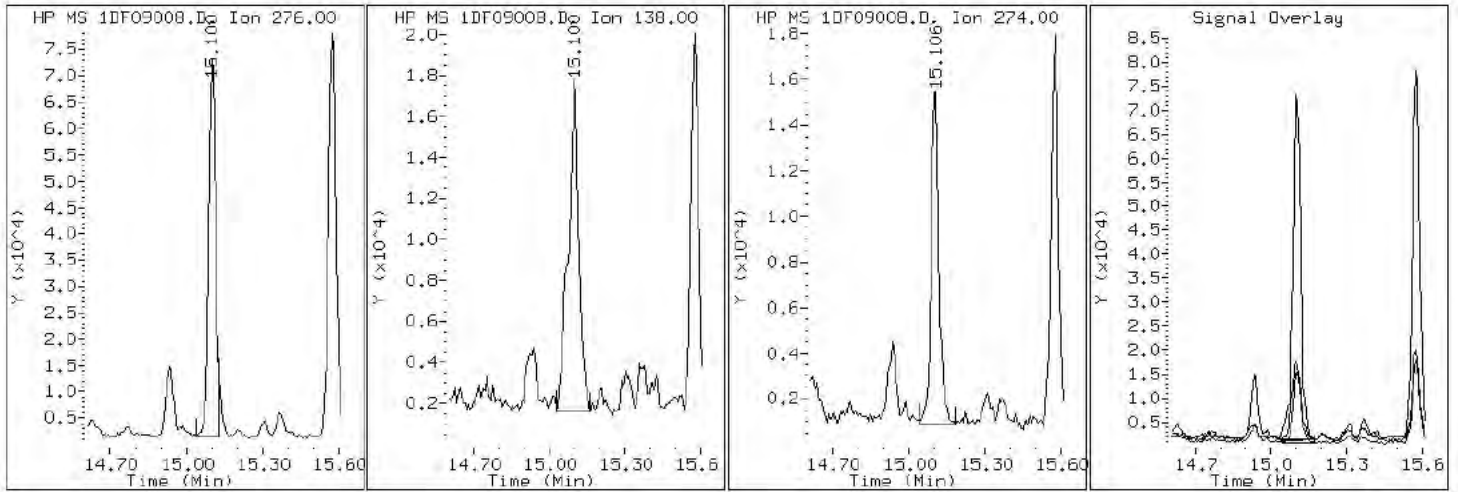
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

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



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

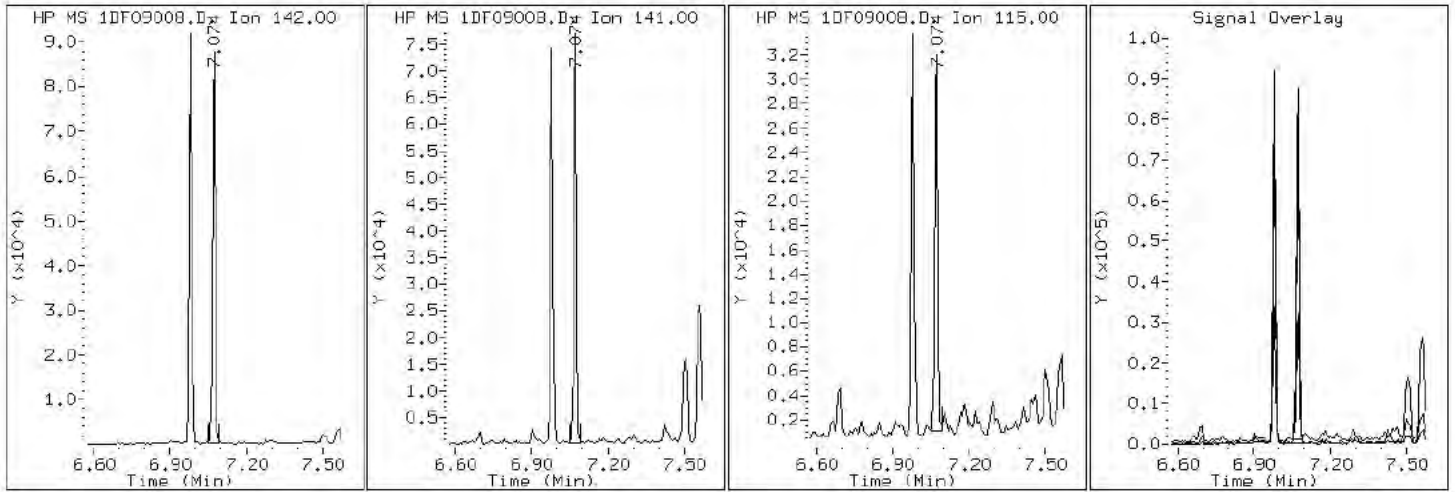
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

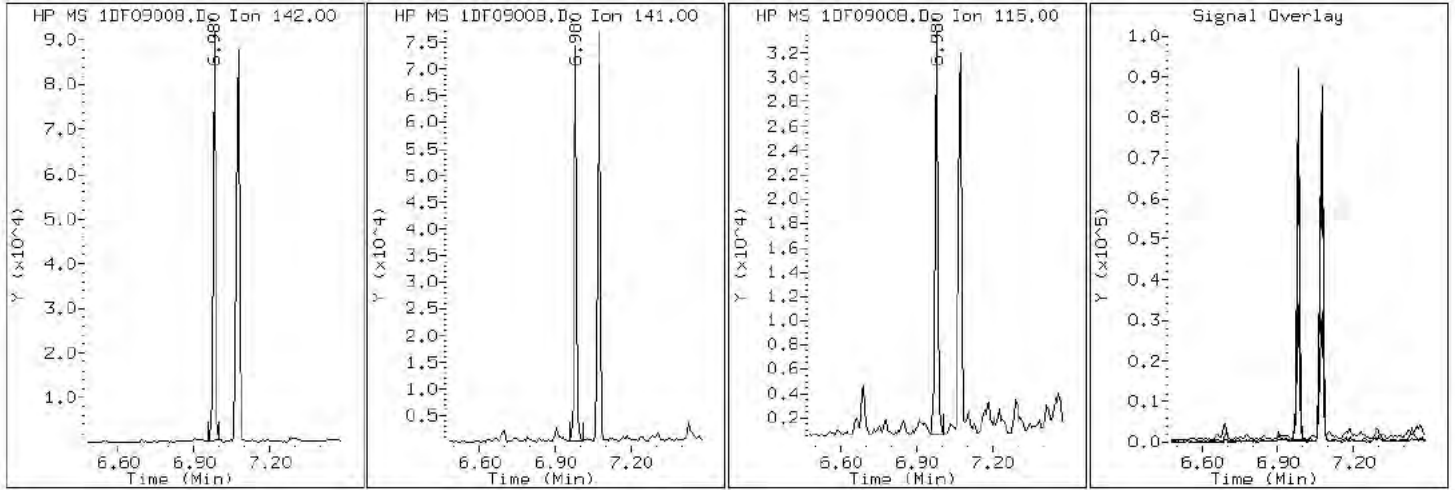
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

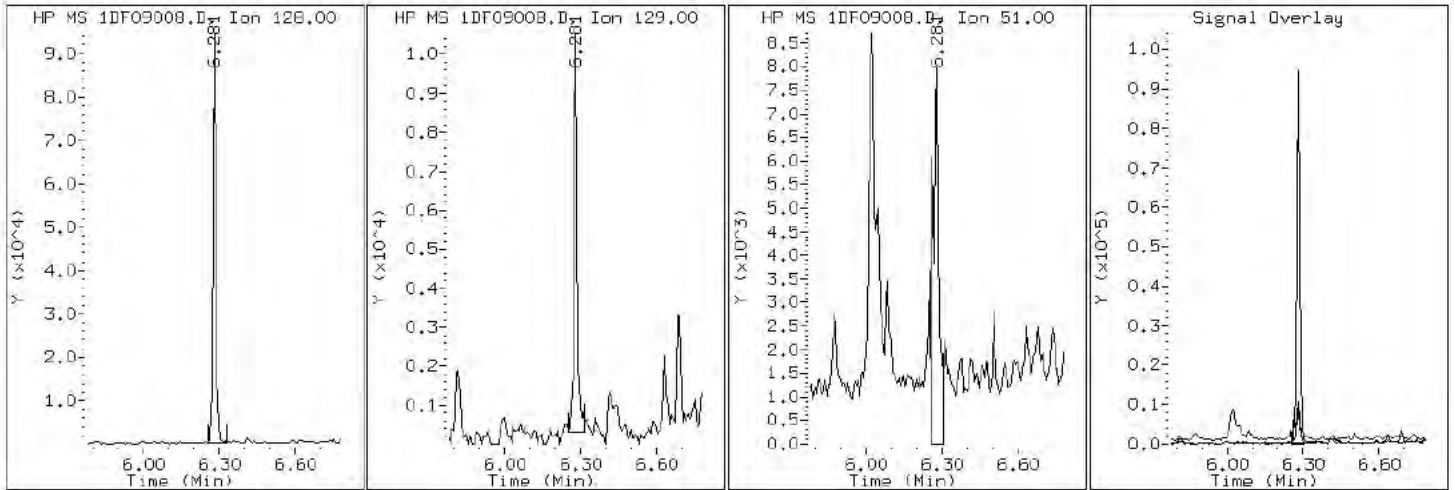
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

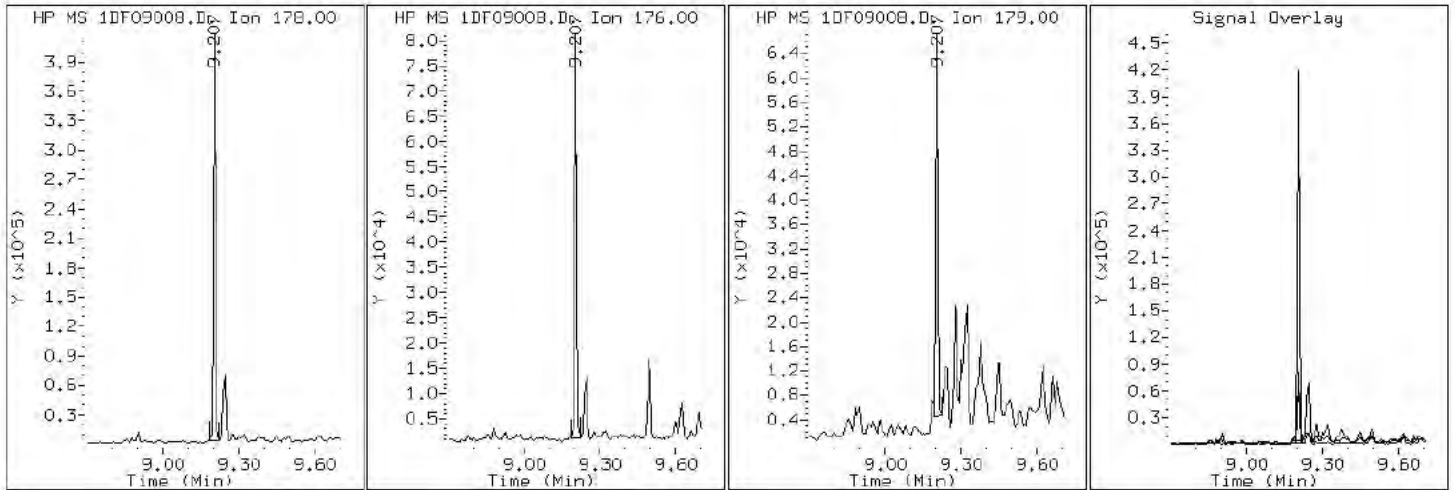
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09008.D

Date: 09-JUN-2013 11:57

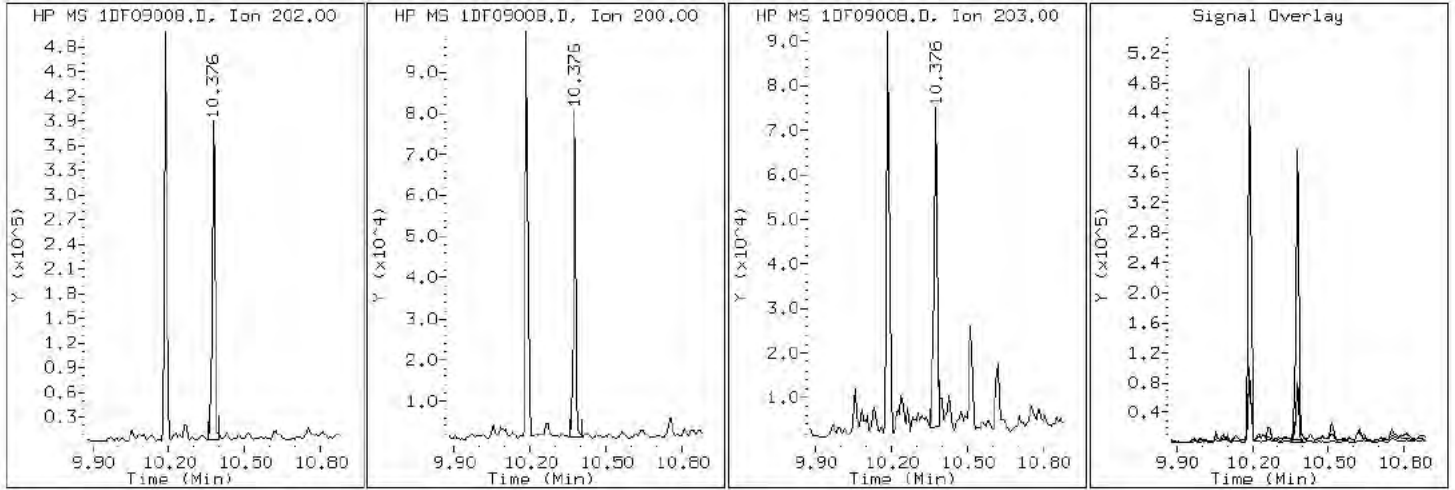
Client ID: FM0348B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-12-a

Operator: SCC

17 Pyrene



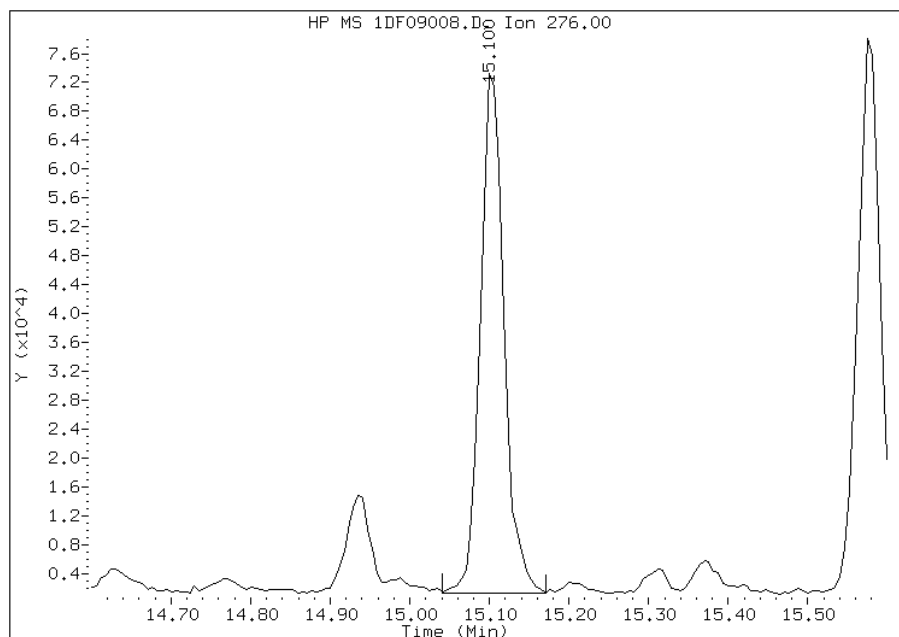


# Manual Integration Report

Data File: 1DF09008.D  
Inj. Date and Time: 09-JUN-2013 11:57  
Instrument ID: BSMSD.i  
Client ID: FM0348B-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

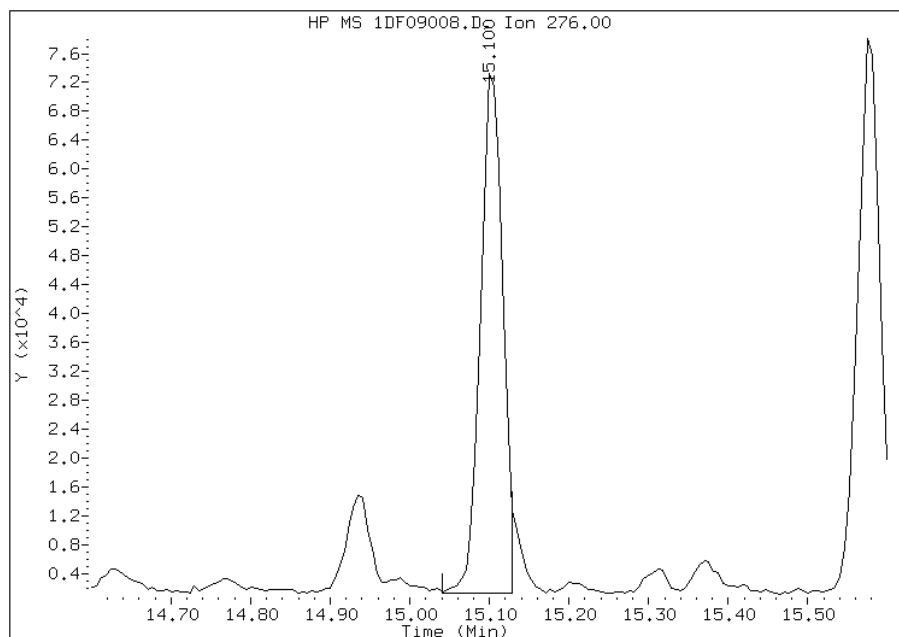
## Processing Integration Results

RT: 15.10  
Response: 146744  
Amount: 2  
Conc: 156



## Manual Integration Results

RT: 15.10  
Response: 139599  
Amount: 2  
Conc: 149



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:56  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0349A-CS-SP Lab Sample ID: 680-90852-13  
 Matrix: Solid Lab File ID: 1DF09009.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 14:54  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.21(g) Date Analyzed: 06/09/2013 12:19  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	35	J	210	26
120-12-7	Anthracene	47		44	22
56-55-3	Benzo[a]anthracene	210		42	20
50-32-8	Benzo[a]pyrene	240		54	27
205-99-2	Benzo[b]fluoranthene	350		63	32
191-24-2	Benzo[g,h,i]perylene	190		100	23
207-08-9	Benzo[k]fluoranthene	120		42	19
218-01-9	Chrysene	280		47	23
53-70-3	Dibenz(a,h)anthracene	75	J	100	21
206-44-0	Fluoranthene	380		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	210		100	37
90-12-0	1-Methylnaphthalene	120	J	210	23
91-57-6	2-Methylnaphthalene	190	J	210	37
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	280		42	20
129-00-0	Pyrene	320		100	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09009.D  
 Lab Smp Id: 680-90852-A-13-A Client Smp ID: FM0349A-CS-SP  
 Inj Date : 09-JUN-2013 12:19  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-13-a  
 Misc Info : 680-90852-A-13-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 8  
 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	15.210	Weight Extracted
M	23.991	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.260	6.263	(1.000)	3318582	40.0000	
* 7 Acenaphthene-d10	164	7.928	7.932	(1.000)	1920412	40.0000	
* 11 Phenanthrene-d10	188	9.192	9.189	(1.000)	3158139	40.0000	
\$ 15 o-Terphenyl	230	9.497	9.500	(1.033)	72176	1.55997	540
* 19 Chrysene-d12	240	11.553	11.557	(1.000)	3004798	40.0000	
* 24 Perylene-d12	264	13.457	13.460	(1.000)	2970030	40.0000	
2 Naphthalene	128	6.283	6.281	(1.004)	32736	0.40001	140
3 2-Methylnaphthalene	142	6.982	6.980	(1.115)	28058	0.53846	190
4 1-Methylnaphthalene	142	7.071	7.074	(1.130)	19009	0.35435	120
6 Acenaphthylene	152	7.805	7.802	(0.984)	8114	0.10191	35
10 Fluorene	166	8.398	8.402	(1.059)	2098	0.03671	13
12 Phenanthrene	178	9.203	9.207	(1.001)	70294	0.82184	280
13 Anthracene	178	9.244	9.248	(1.006)	11209	0.13506	47
16 Fluoranthene	202	10.190	10.194	(1.109)	97169	1.11046	380

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
17 Pyrene	202	10.378	10.382	(0.898)	82409	0.93675	320
18 Benzo(a)anthracene	228	11.536	11.539	(0.998)	53959	0.60509	210
20 Chrysene	228	11.577	11.580	(1.002)	64885	0.80802	280
21 Benzo(b)fluoranthene	252	12.887	12.896	(0.958)	74304	0.99863	340
22 Benzo(k)fluoranthene	252	12.922	12.938	(0.960)	27468	0.35253	120
23 Benzo(a)pyrene	252	13.351	13.361	(0.992)	43525	0.68935	240
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.111	(1.121)	35506	0.60796	210(M)
26 Dibenzo(a,h)anthracene	278	15.120	15.147	(1.124)	10265	0.21658	75
27 Benzo(g,h,i)perylene	276	15.561	15.587	(1.156)	36832	0.54616	190

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09009.D

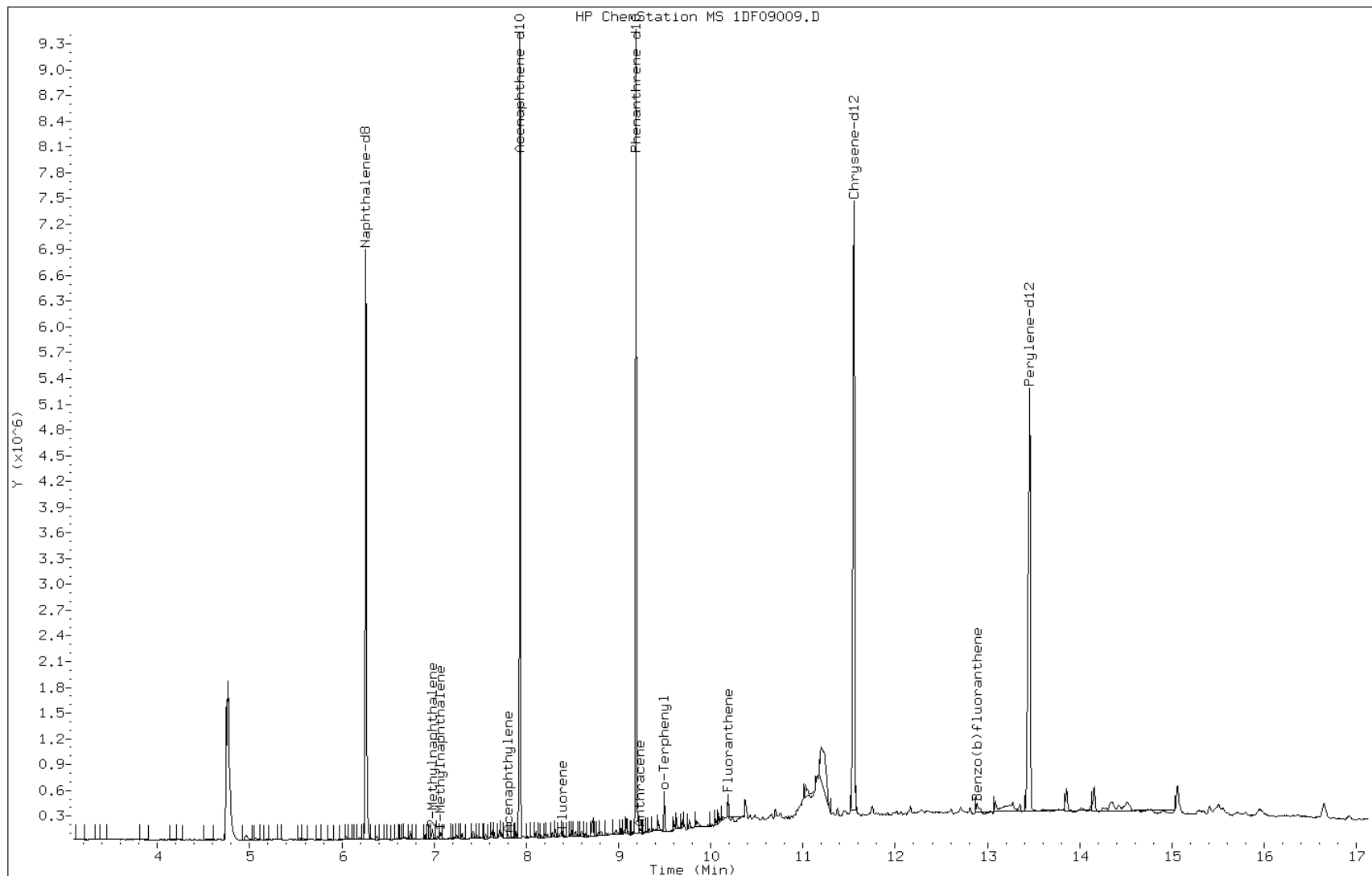
Date: 09-JUN-2013 12:19

Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

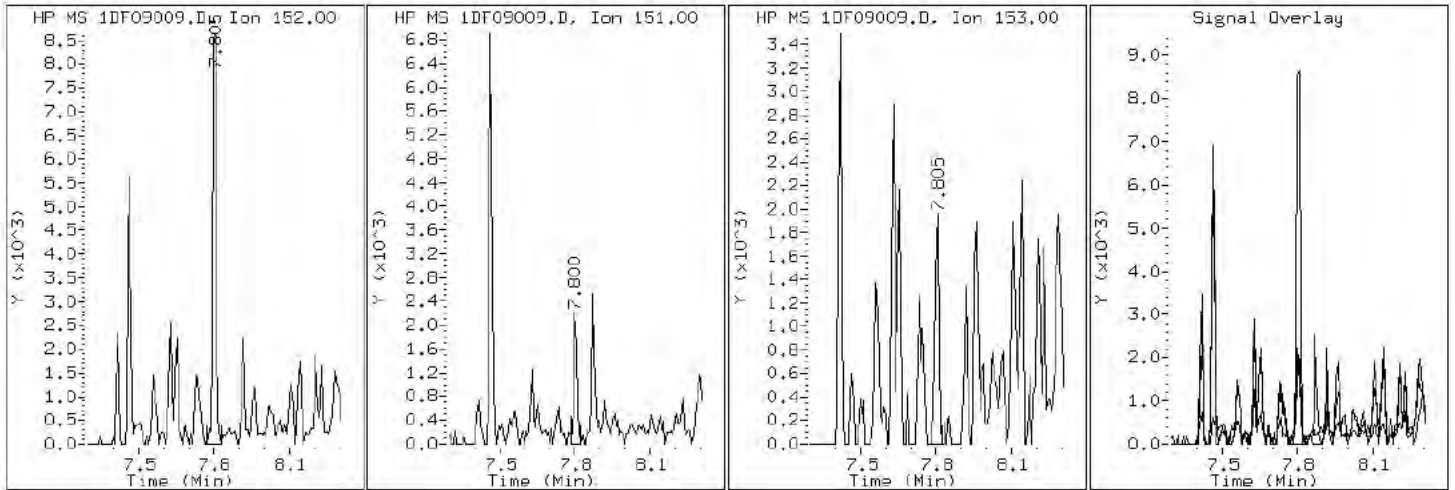
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

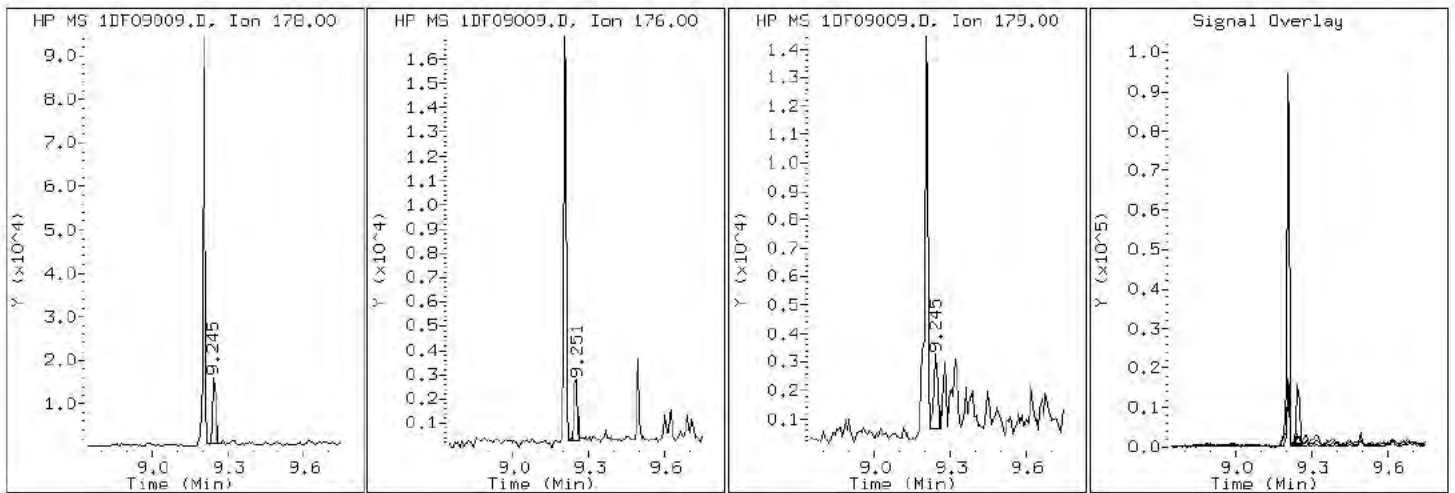
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

13 Anthracene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

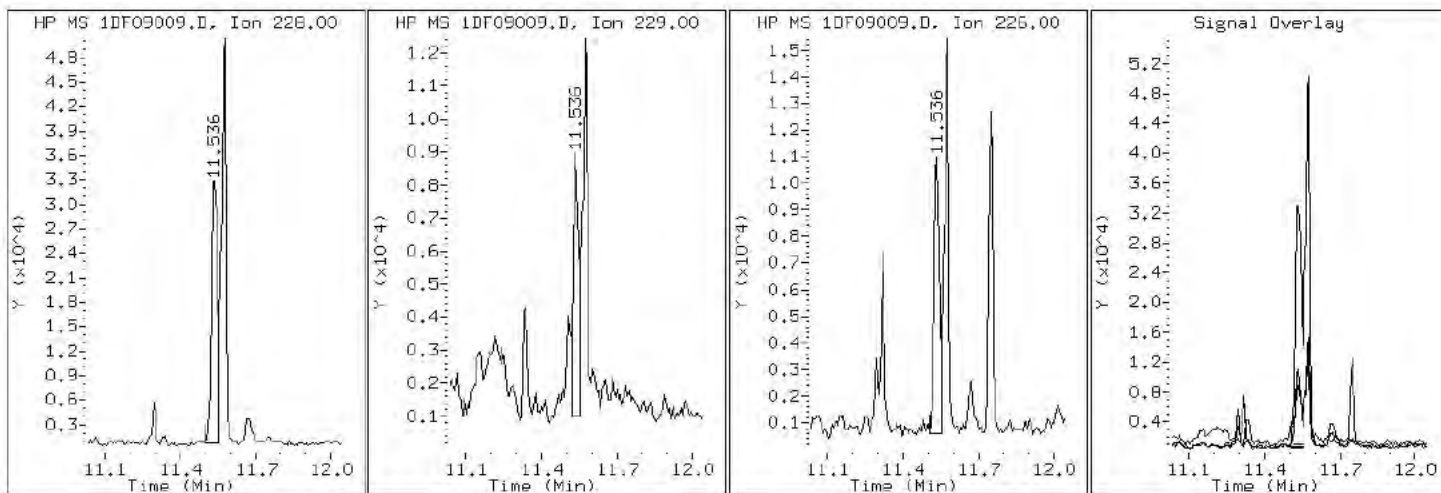
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

18 Benzo(a)anthracene





Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

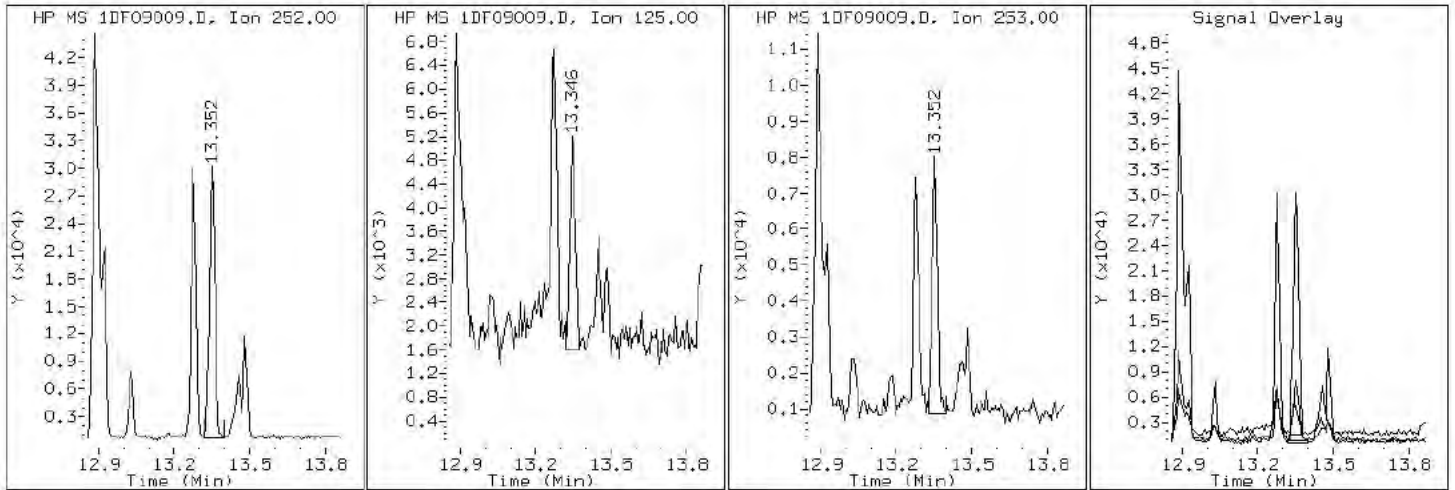
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

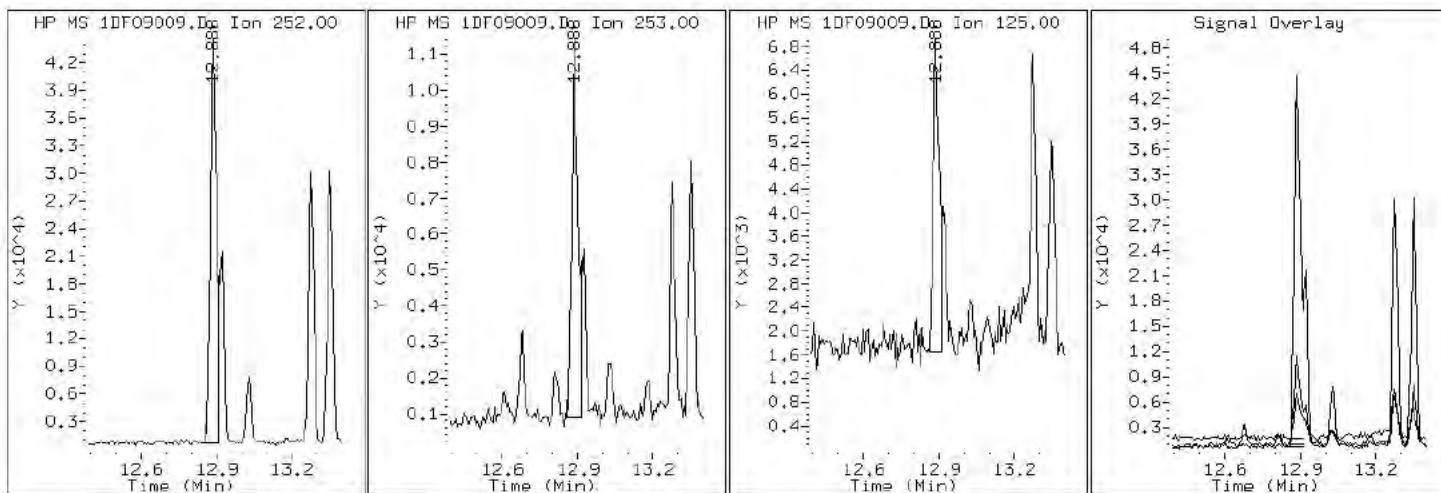
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

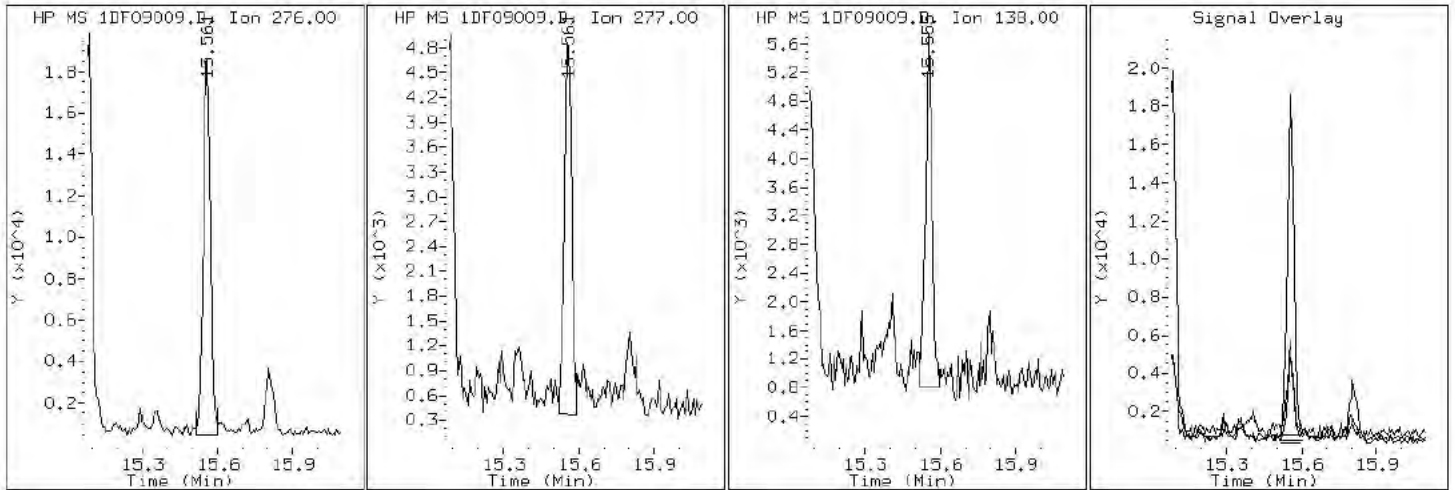
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

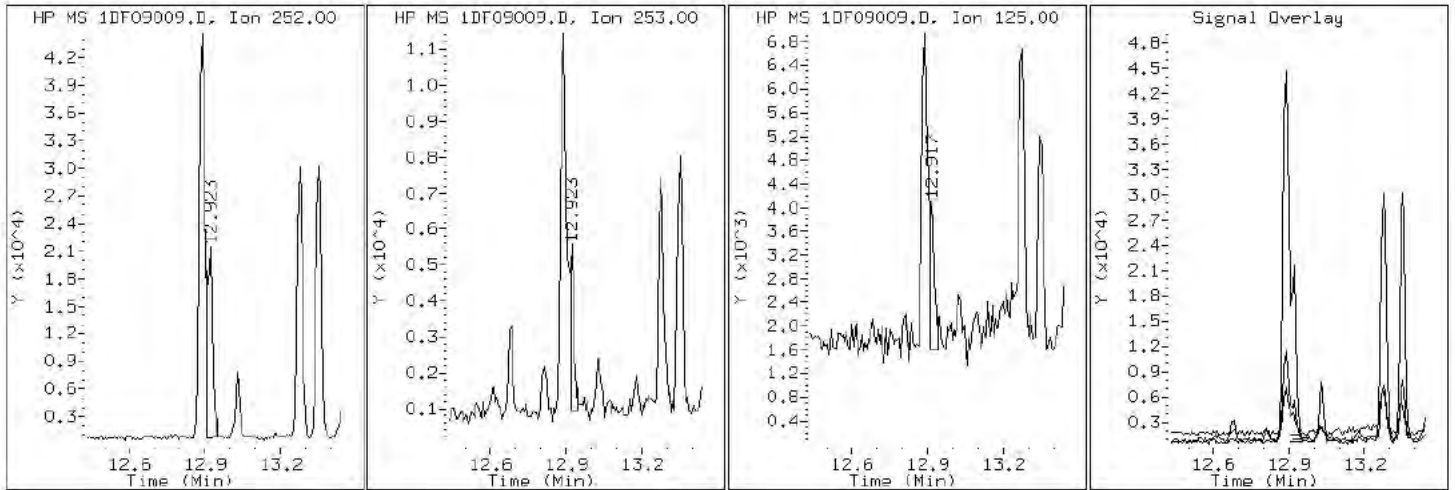
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

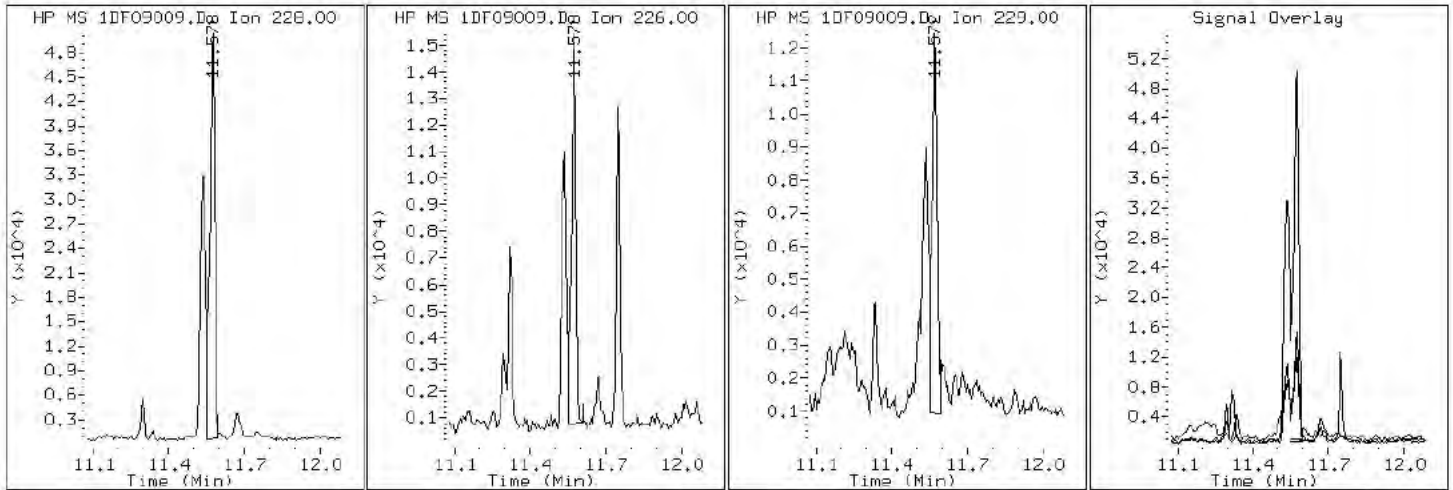
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

20 Chrysene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

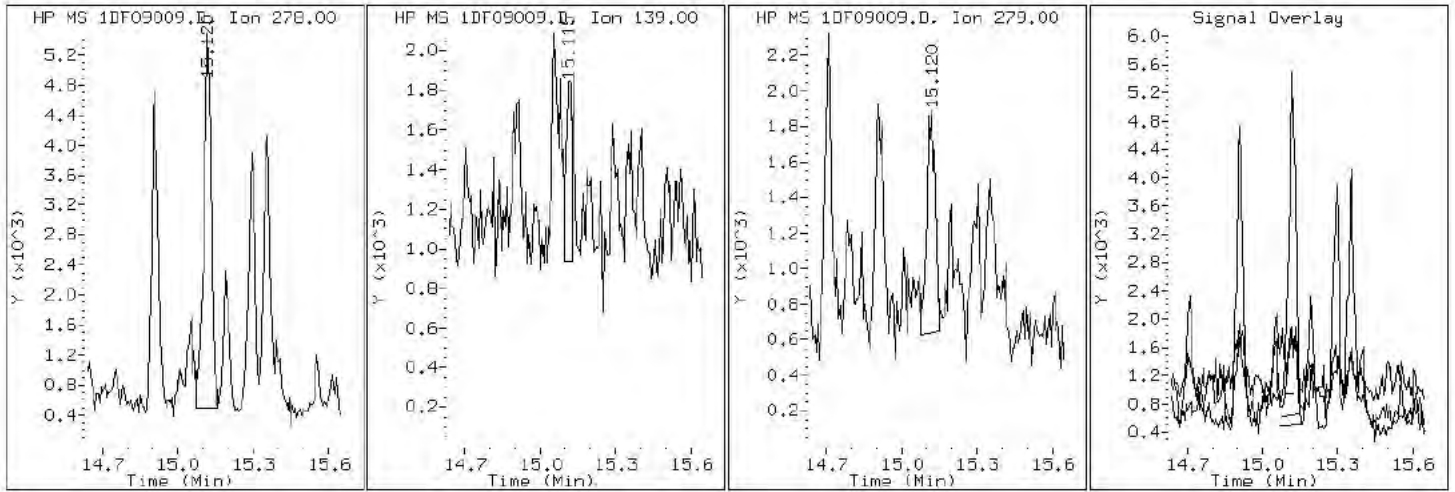
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

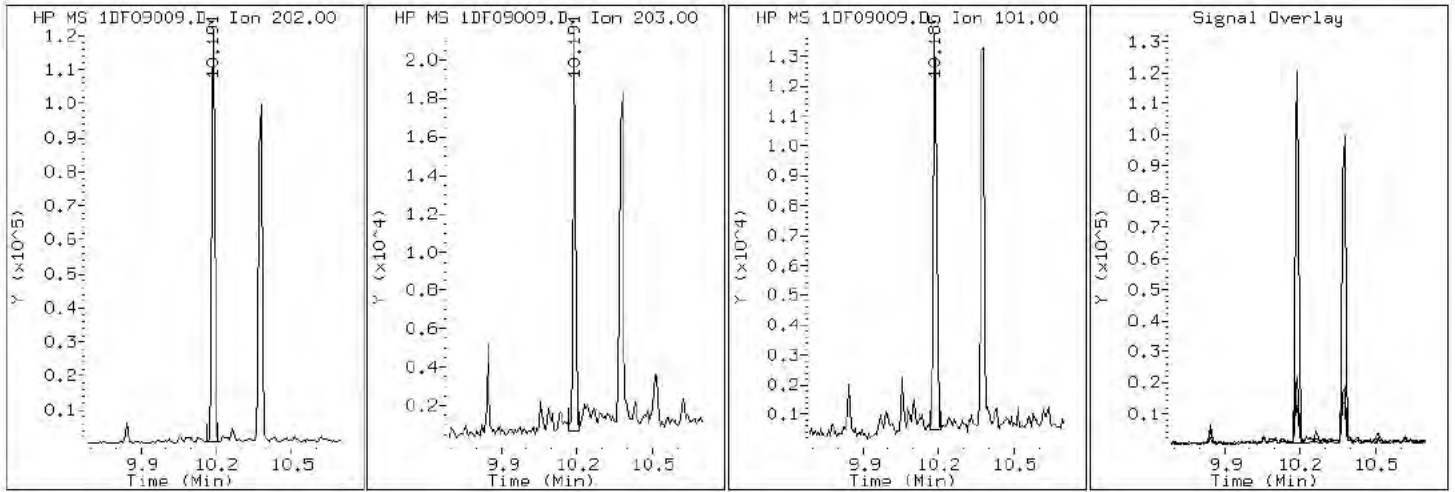
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

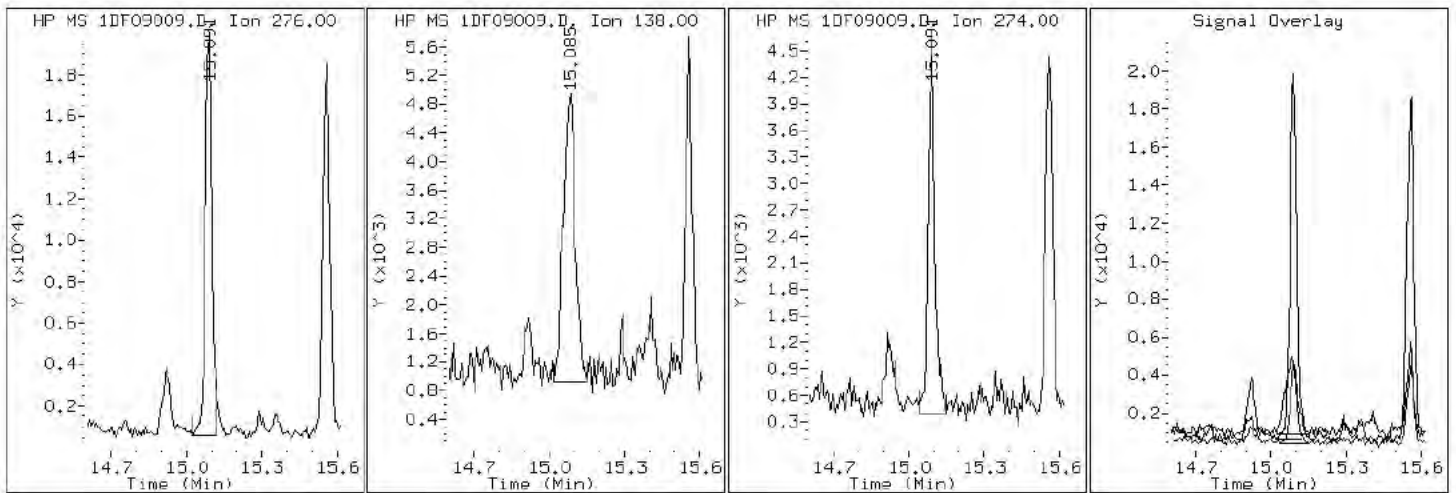
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

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





Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

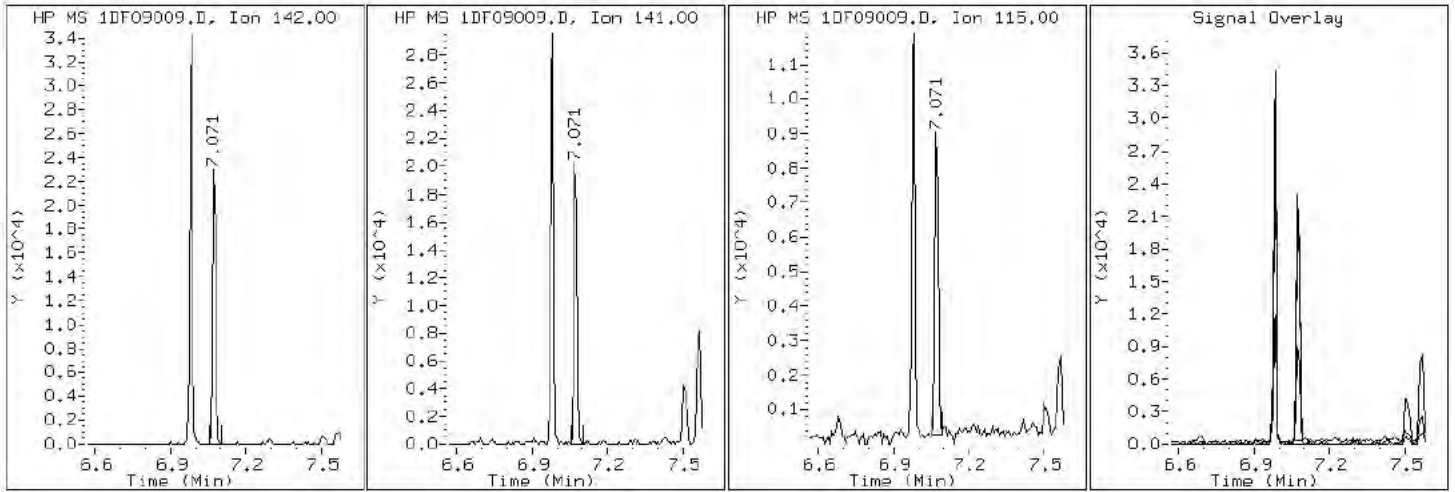
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

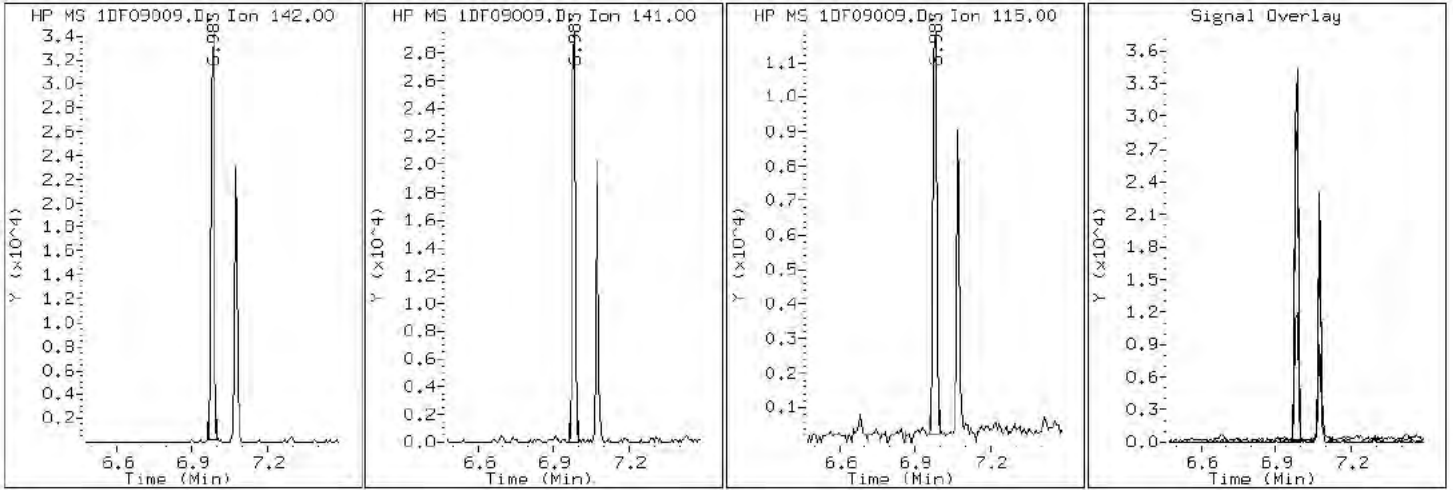
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

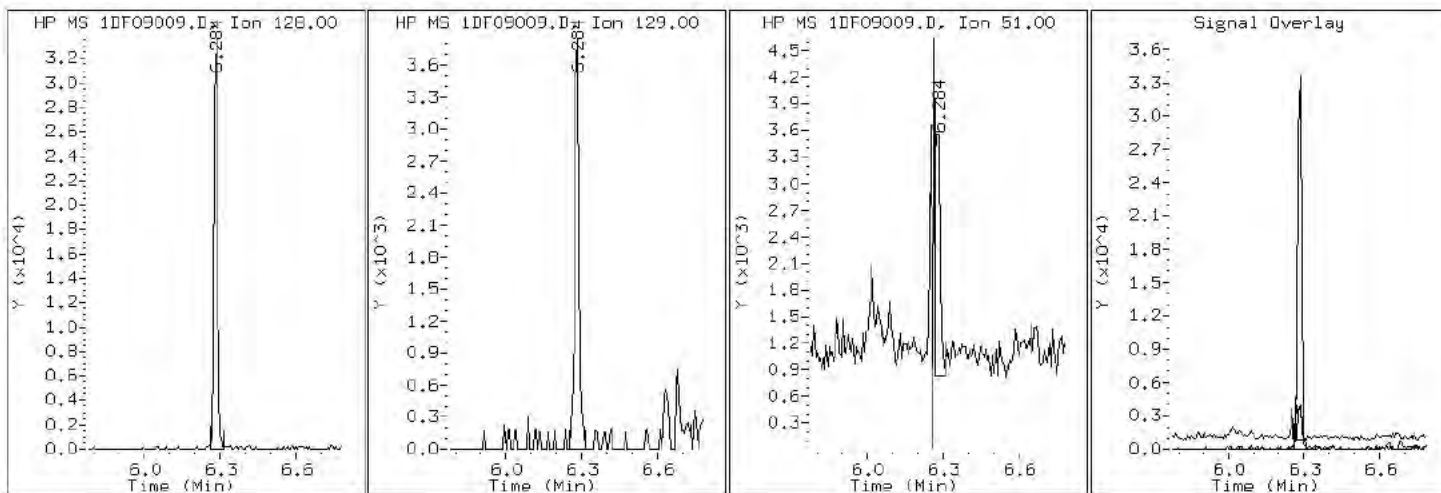
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

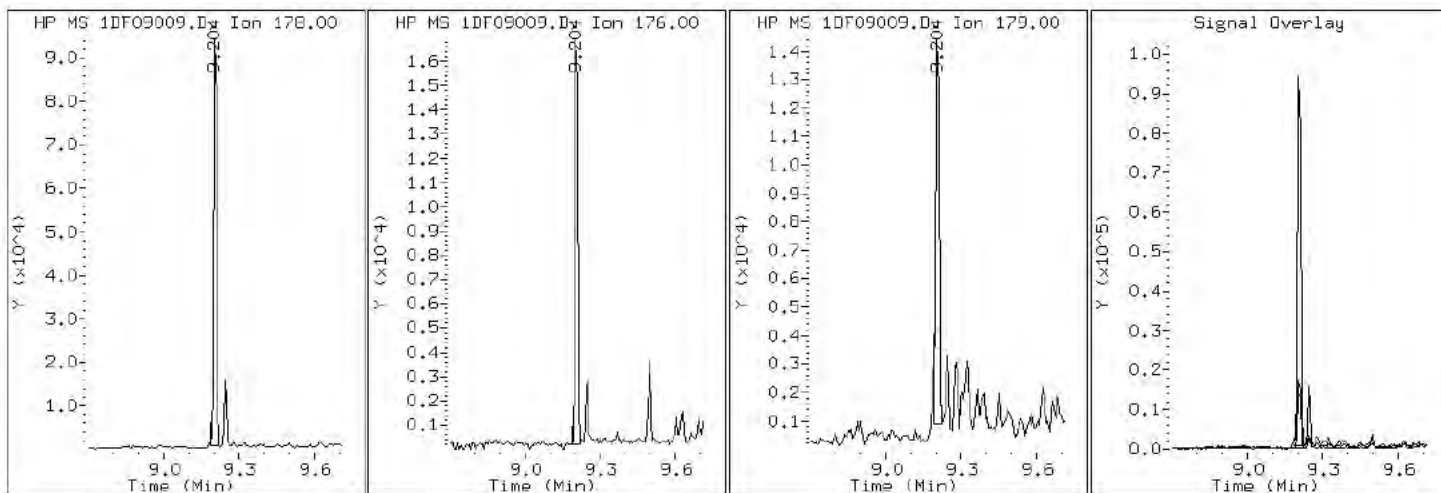
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09009.D

Date: 09-JUN-2013 12:19

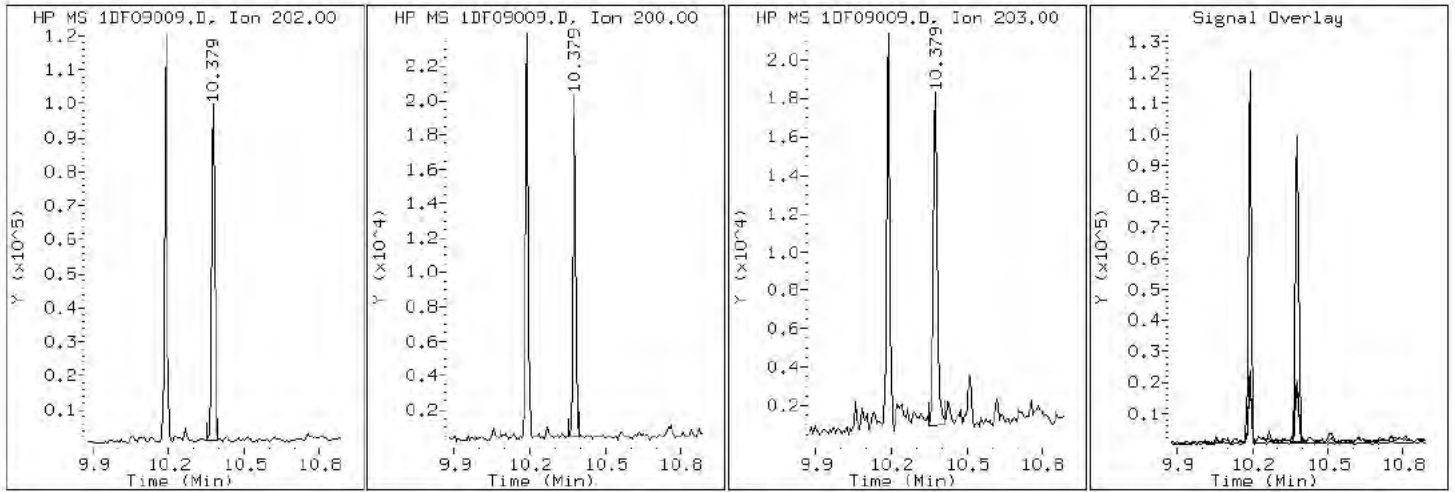
Client ID: FM0349A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-13-a

Operator: SCC

17 Pyrene

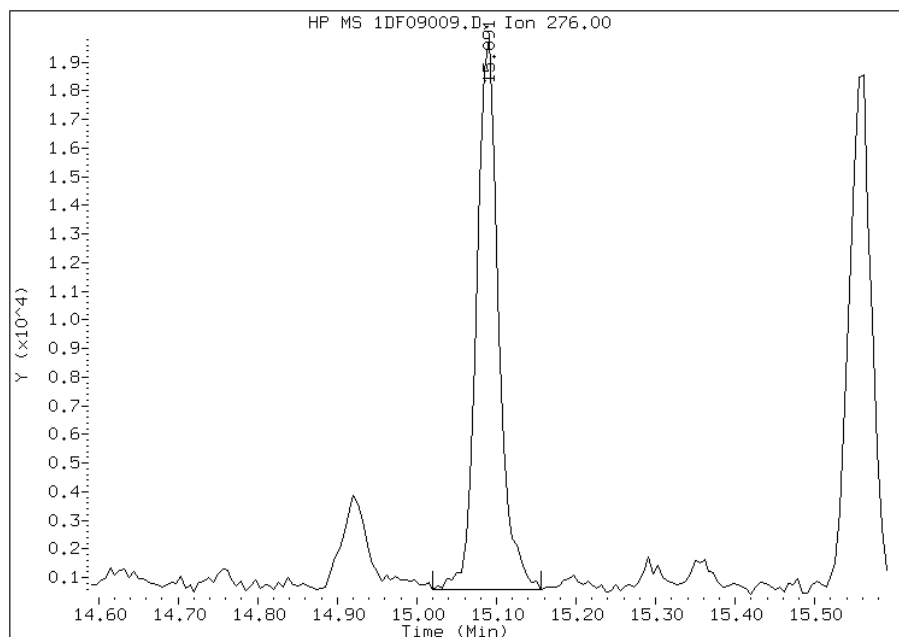


# Manual Integration Report

Data File: 1DF09009.D  
Inj. Date and Time: 09-JUN-2013 12:19  
Instrument ID: BSMSD.i  
Client ID: FM0349A-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

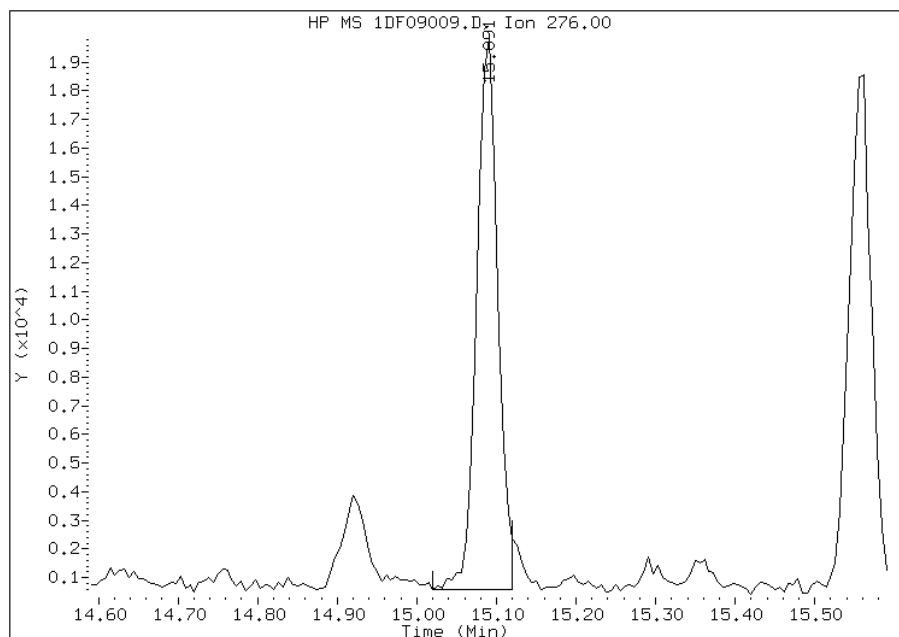
## Processing Integration Results

RT: 15.09  
Response: 36767  
Amount: 1  
Conc: 216



## Manual Integration Results

RT: 15.09  
Response: 35506  
Amount: 1  
Conc: 210



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:57  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0349B-CS-SP Lab Sample ID: 680-90852-14  
 Matrix: Solid Lab File ID: 1DF09010.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 15:07  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.37(g) Date Analyzed: 06/09/2013 12:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 16.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	45	J	120	23
208-96-8	Acenaphthylene	28	J	47	5.9
120-12-7	Anthracene	110		9.8	4.9
56-55-3	Benzo[a]anthracene	310		9.4	4.6
50-32-8	Benzo[a]pyrene	280		12	6.1
205-99-2	Benzo[b]fluoranthene	420		14	7.1
191-24-2	Benzo[g,h,i]perylene	200		23	5.2
207-08-9	Benzo[k]fluoranthene	170		9.4	4.2
218-01-9	Chrysene	330		11	5.3
53-70-3	Dibenz(a,h)anthracene	64		23	4.8
206-44-0	Fluoranthene	690		23	4.7
86-73-7	Fluorene	49		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	190		23	8.3
90-12-0	1-Methylnaphthalene	93		47	5.2
91-57-6	2-Methylnaphthalene	100		47	8.3
91-20-3	Naphthalene	77		47	5.2
85-01-8	Phenanthrene	500		9.4	4.6
129-00-0	Pyrene	500		23	4.3

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09010.D  
 Lab Smp Id: 680-90852-A-14-A Client Smp ID: FM0349B-CS-SP  
 Inj Date : 09-JUN-2013 12:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-14-a  
 Misc Info : 680-90852-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	16.630	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.260	6.263	(1.000)	3529480	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.932	(1.000)	1992448	40.0000	
* 11 Phenanthrene-d10	188		9.192	9.189	(1.000)	3202359	40.0000	
\$ 15 o-Terphenyl	230		9.498	9.500	(1.033)	333104	7.10010	550
* 19 Chrysene-d12	240		11.554	11.557	(1.000)	3106328	40.0000	
* 24 Perylene-d12	264		13.464	13.460	(1.000)	3111054	40.0000	
2 Naphthalene	128		6.278	6.281	(1.003)	86237	0.99079	77
3 2-Methylnaphthalene	142		6.977	6.980	(1.114)	73358	1.32370	100
4 1-Methylnaphthalene	142		7.071	7.074	(1.129)	67771	1.18785	93
6 Acenaphthylene	152		7.805	7.802	(0.984)	29852	0.36136	28
8 Acenaphthene	154		7.958	7.961	(1.003)	30215	0.57656	45
10 Fluorene	166		8.399	8.402	(1.058)	36894	0.62222	48
12 Phenanthrene	178		9.210	9.207	(1.002)	552924	6.37520	500
13 Anthracene	178		9.251	9.248	(1.006)	123959	1.47303	110



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.191	10.194	(1.109)	781029	8.80247	690
17 Pyrene	202	10.379	10.382	(0.898)	581988	6.39928	500
18 Benzo(a)anthracene	228	11.536	11.539	(0.998)	362974	3.93728	310
20 Chrysene	228	11.578	11.580	(1.002)	355893	4.28712	330
21 Benzo(b)fluoranthene	252	12.900	12.896	(0.958)	421085	5.40276	420
22 Benzo(k)fluoranthene	252	12.929	12.938	(0.960)	179274	2.19651	170
23 Benzo(a)pyrene	252	13.364	13.361	(0.993)	264952	3.53231	280
25 Indeno(1,2,3-cd)pyrene	276	15.109	15.111	(1.122)	187727	2.46952	190(M)
26 Dibenzo(a,h)anthracene	278	15.138	15.147	(1.124)	55381	0.81680	64
27 Benzo(g,h,i)perylene	276	15.585	15.587	(1.158)	180600	2.55659	200

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09010.D

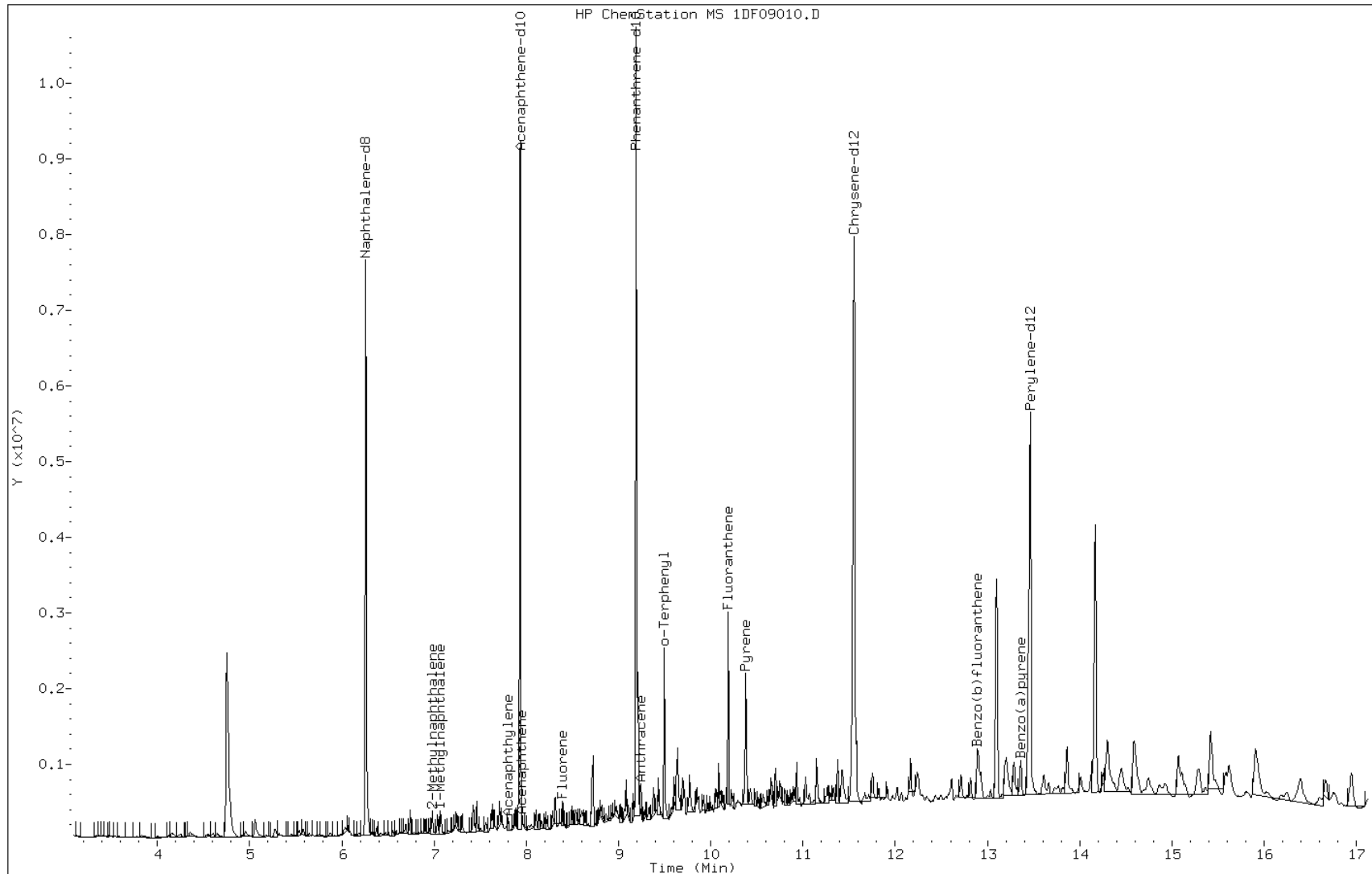
Date: 09-JUN-2013 12:42

Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

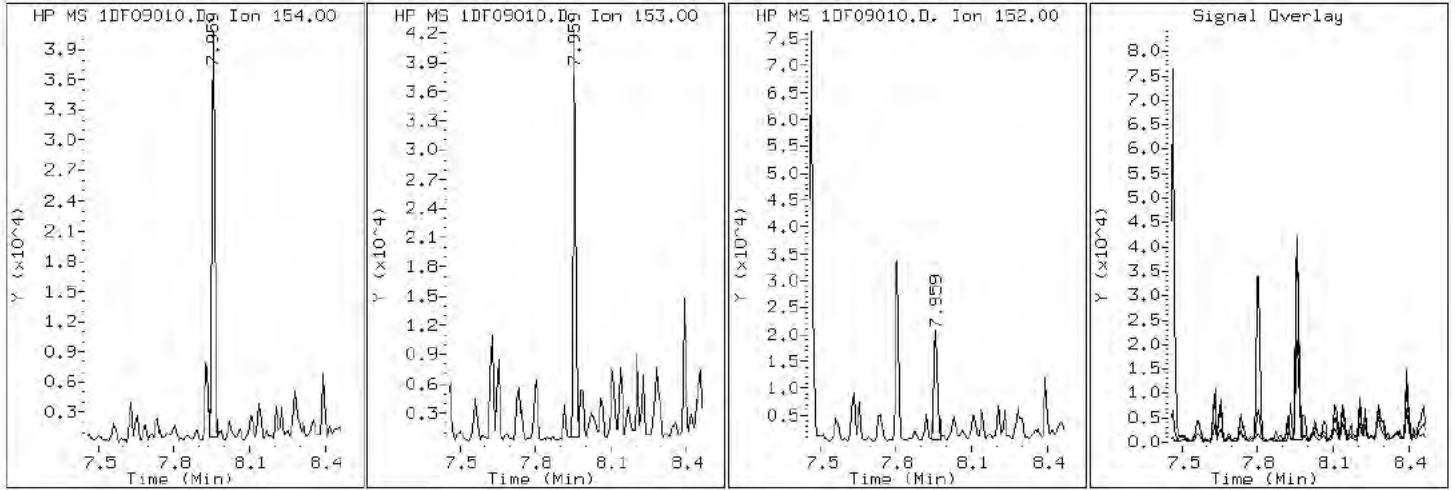
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

8 Acenaphthene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

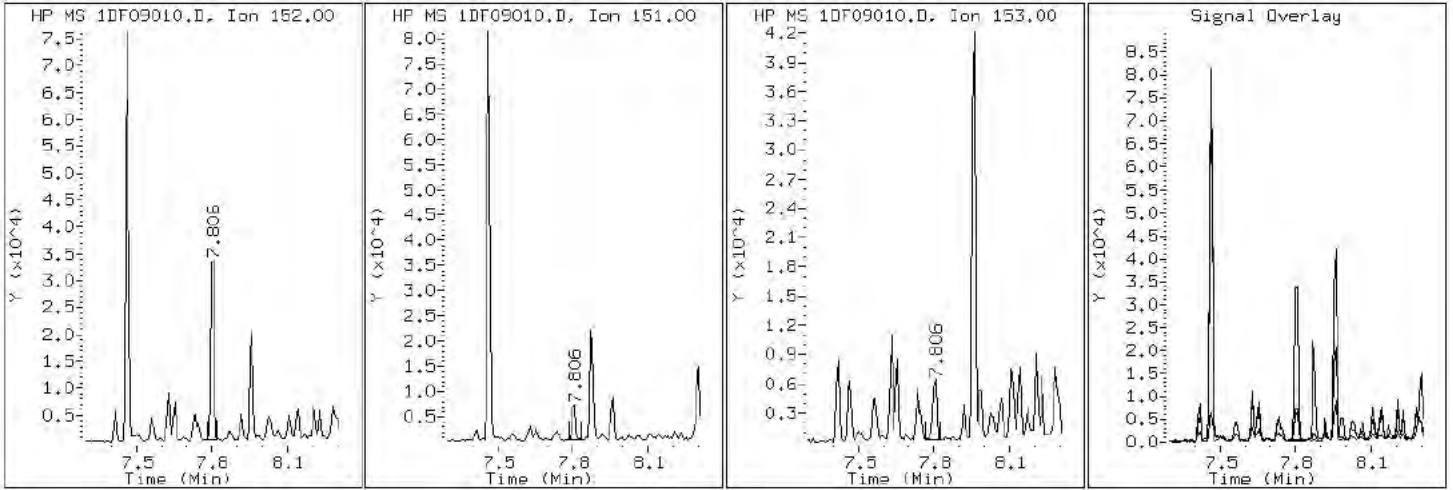
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

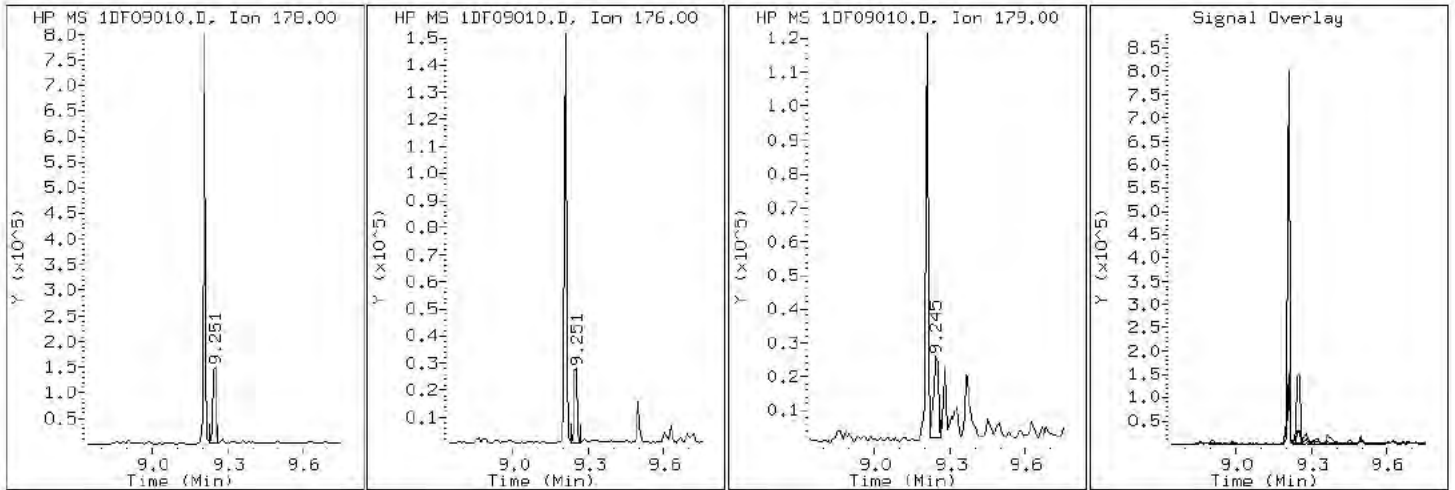
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

13 Anthracene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

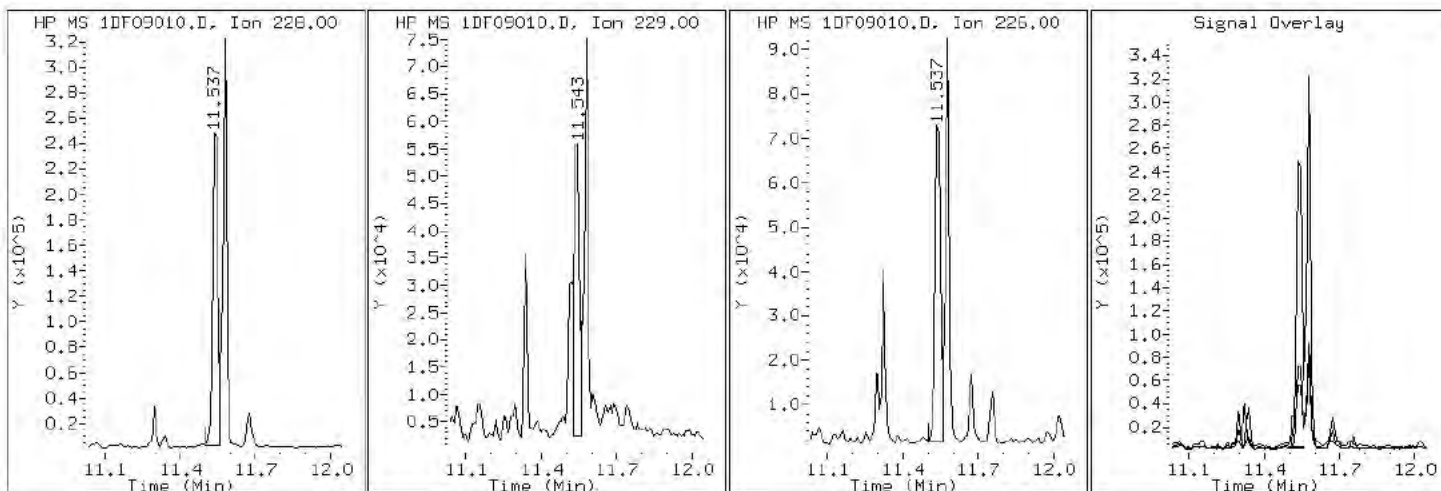
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

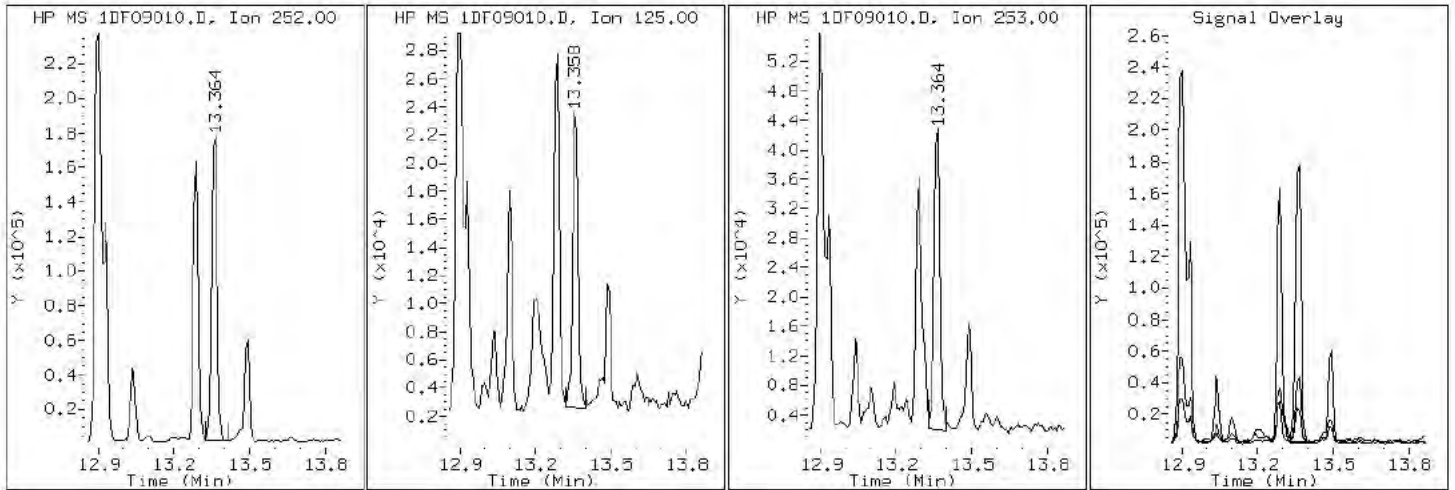
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

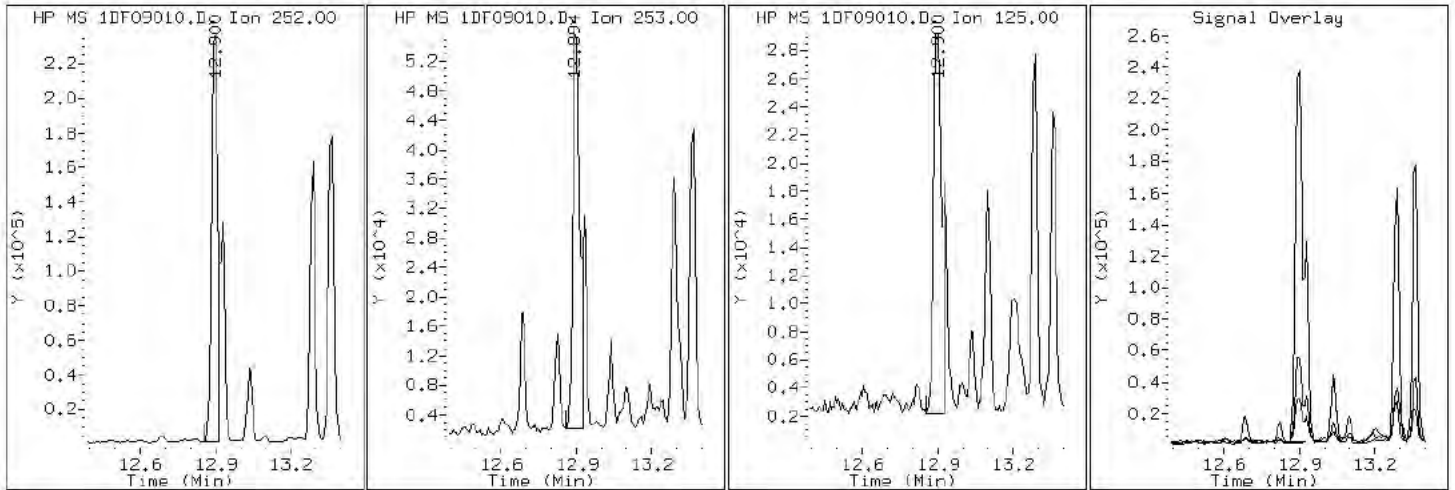
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

21 Benzo(b)fluoranthene





Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

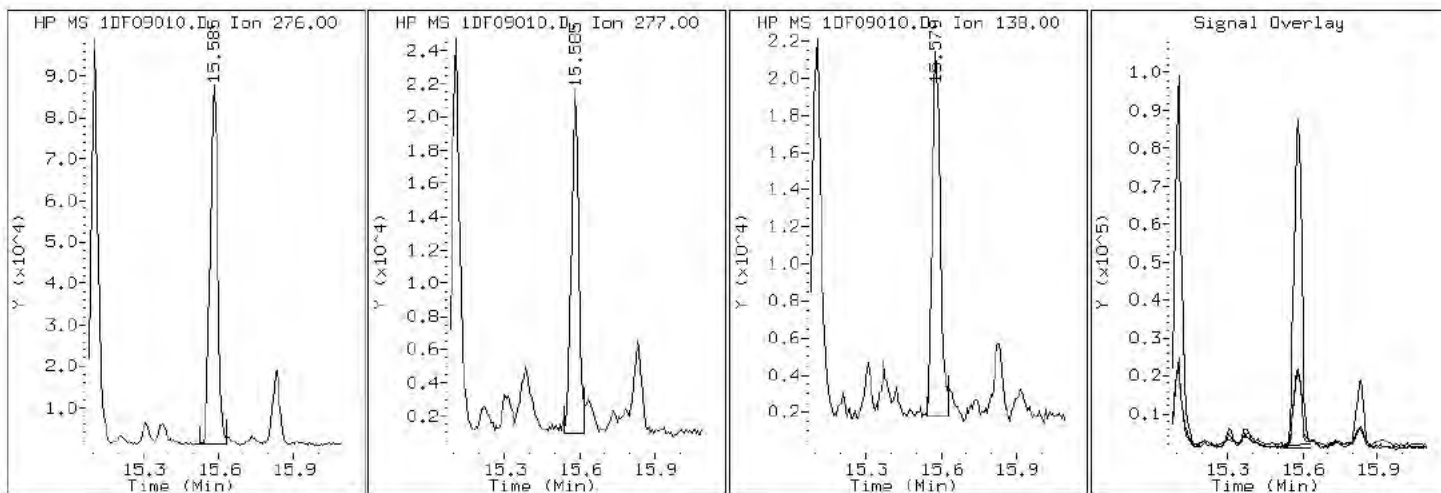
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

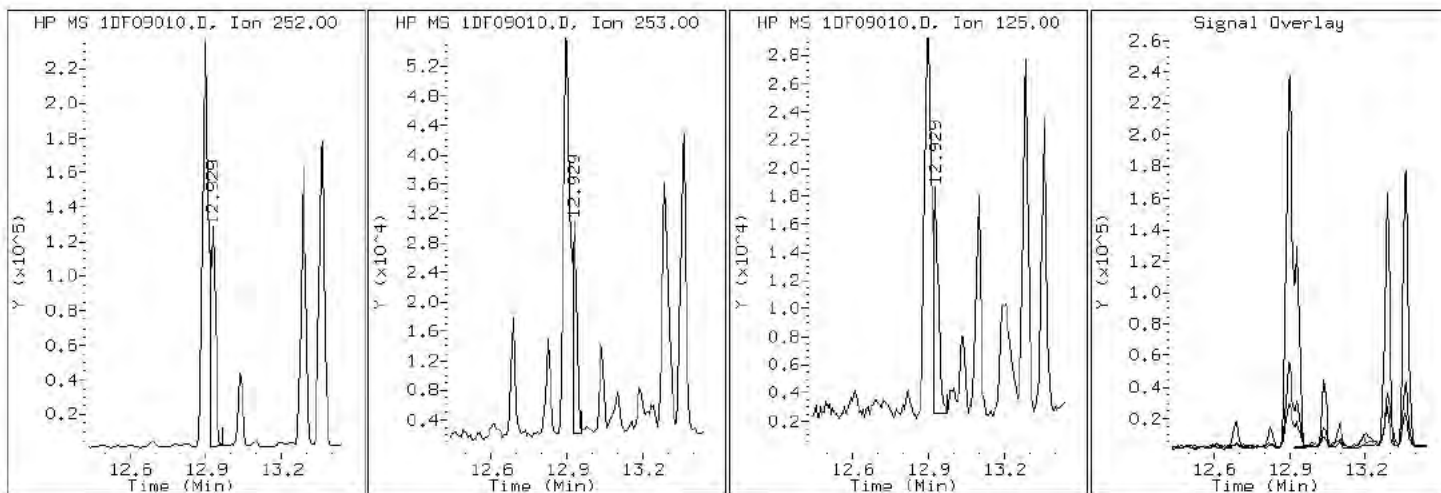
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

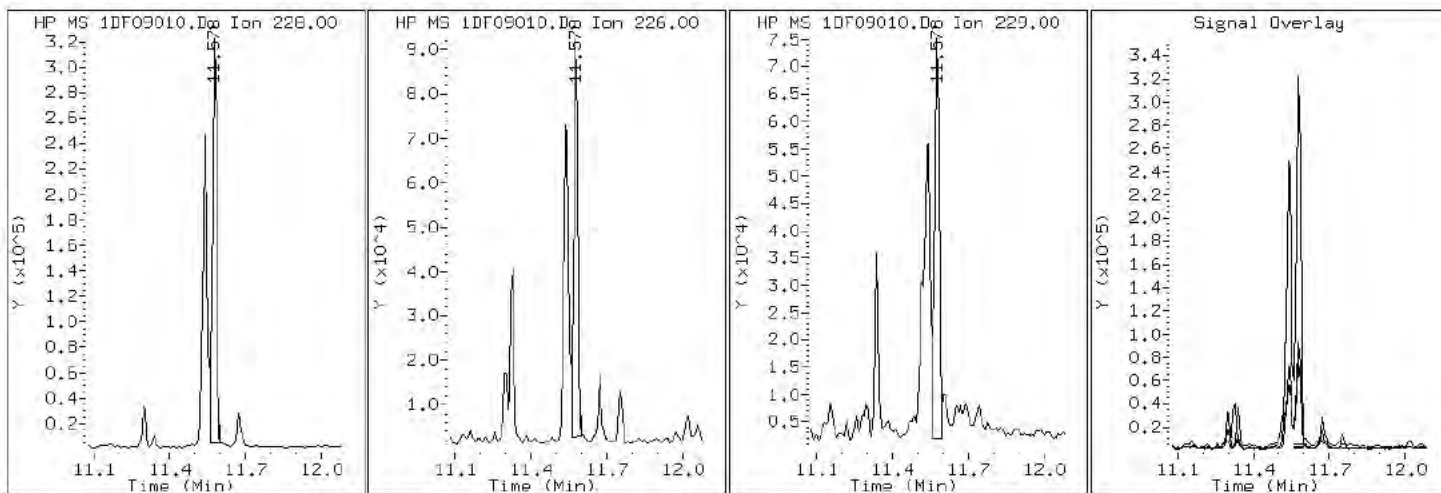
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

20 Chrysene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

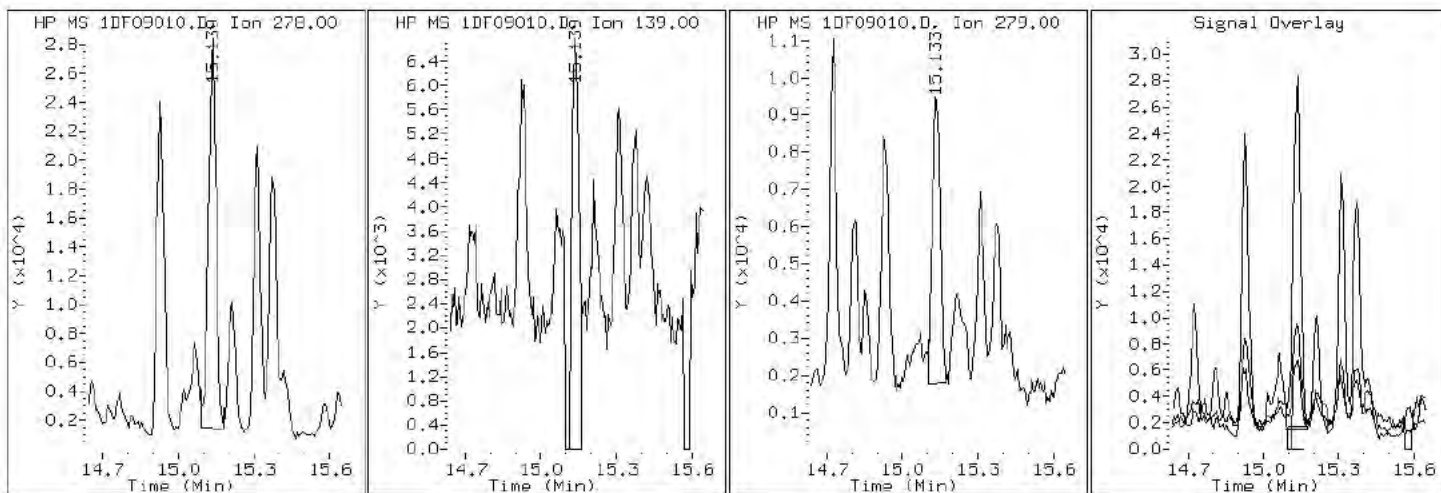
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

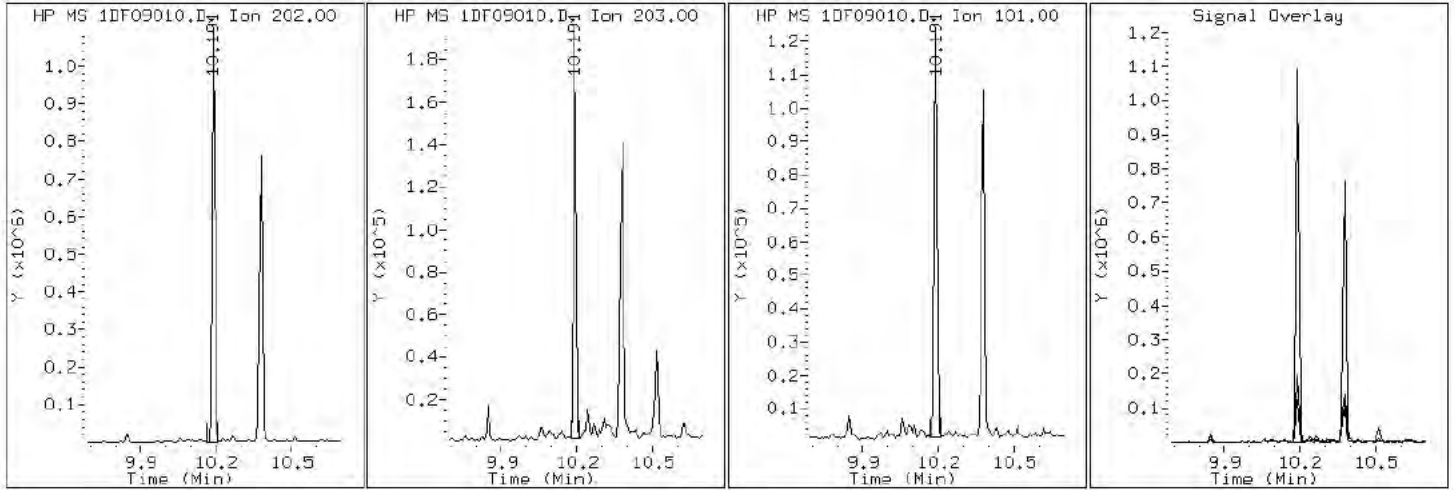
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

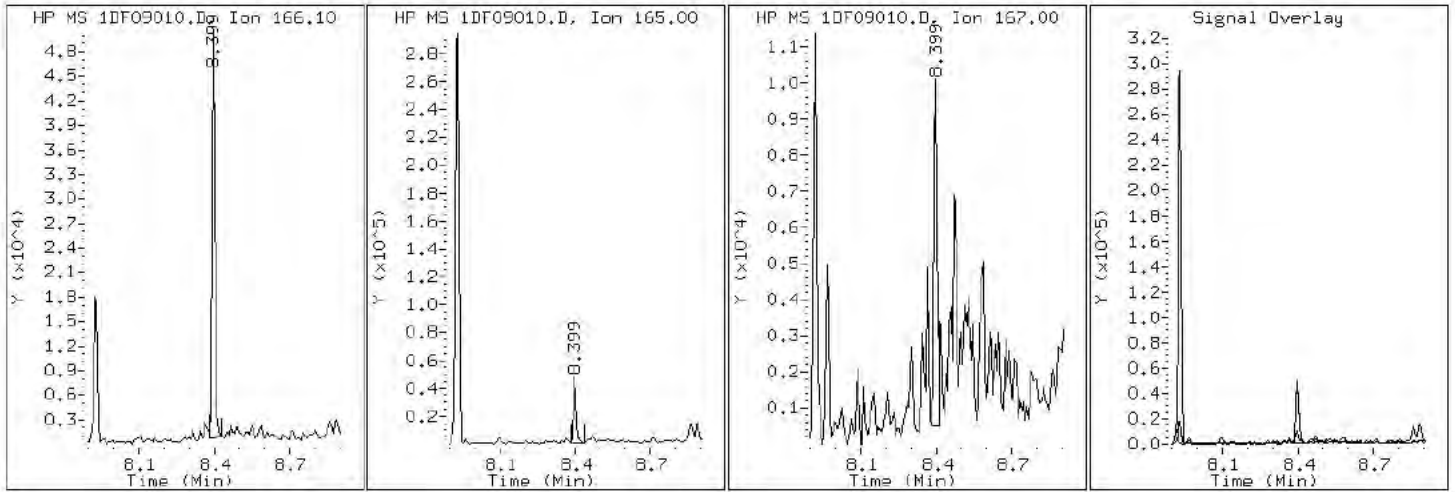
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

10 Fluorene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

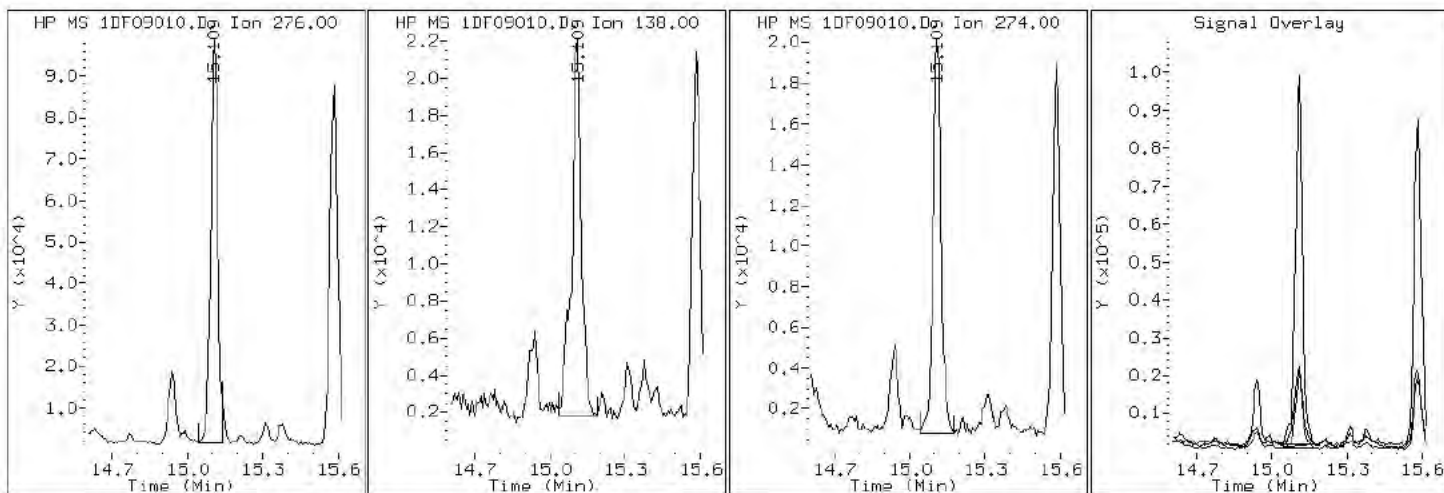
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

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



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

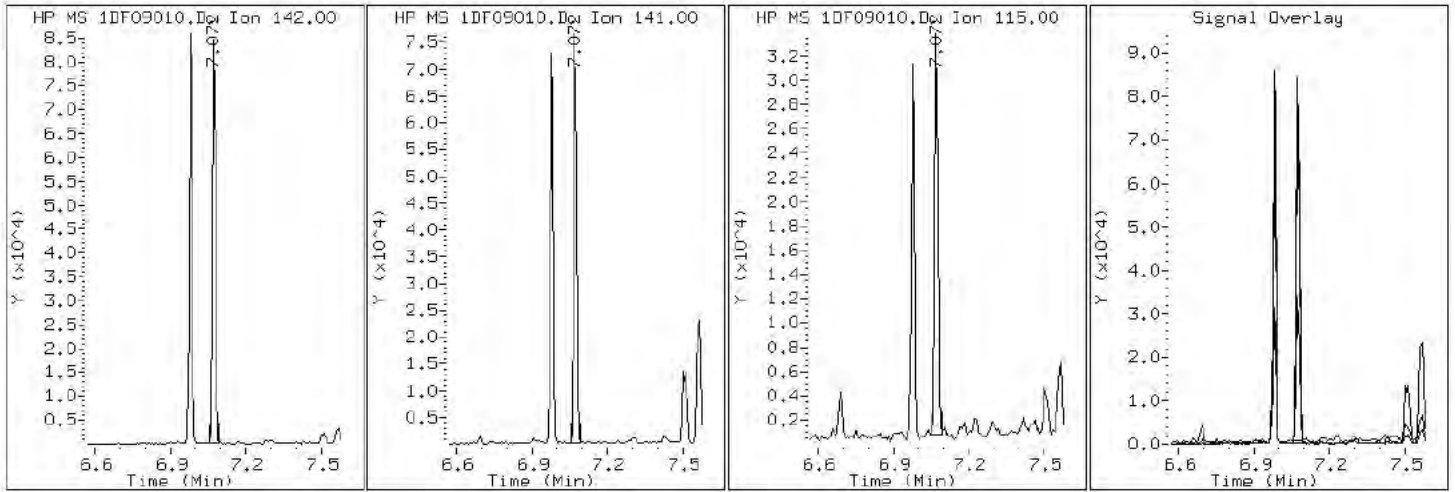
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

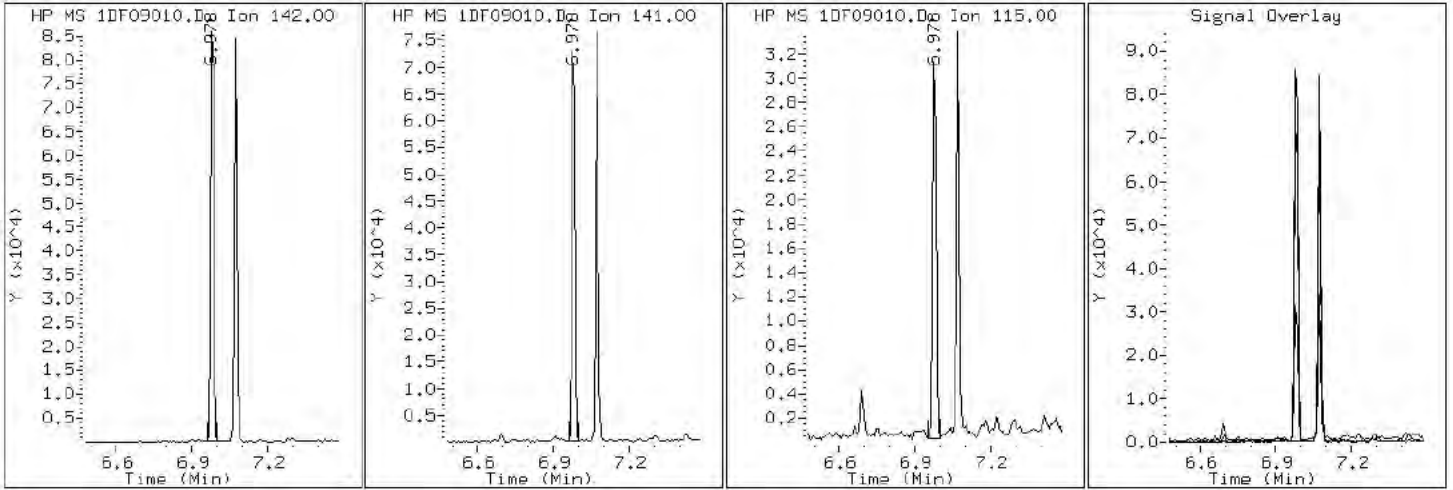
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

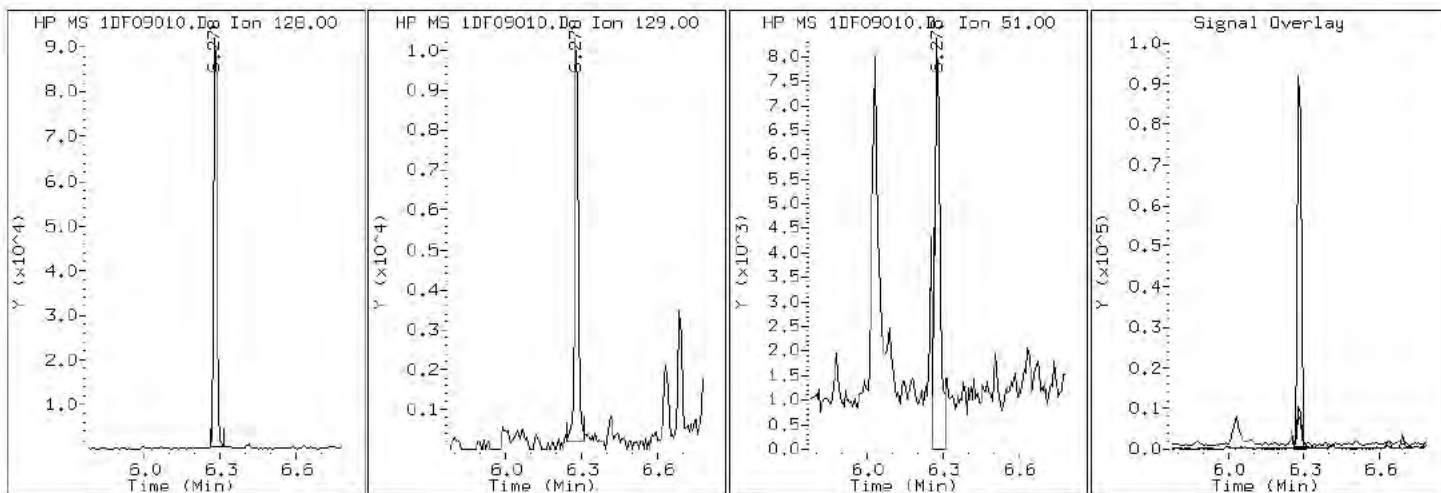
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

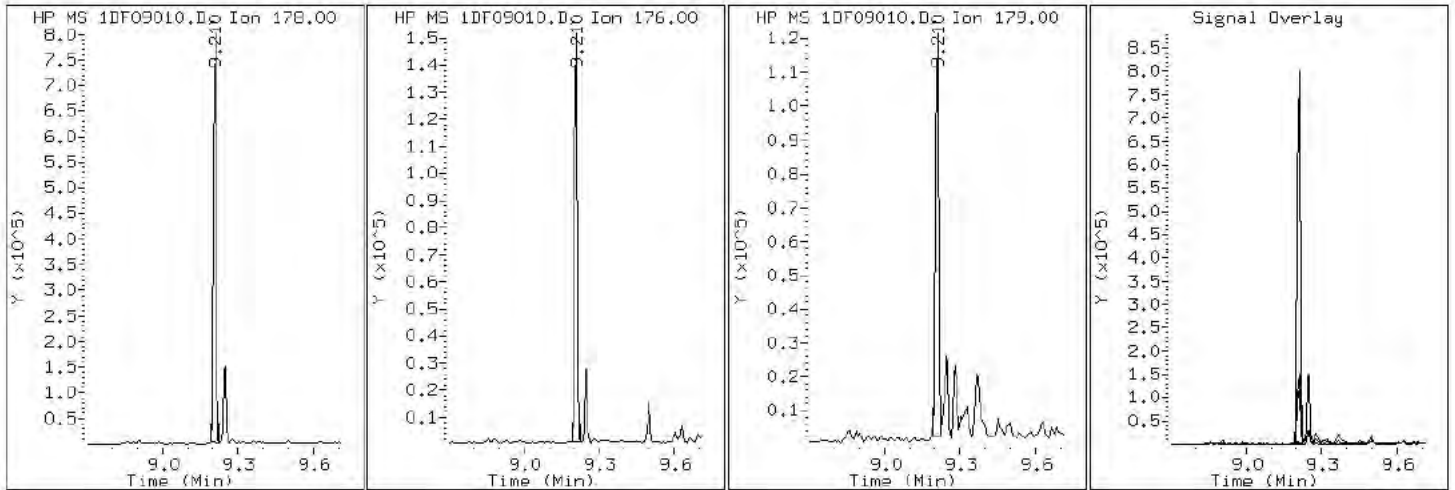
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09010.D

Date: 09-JUN-2013 12:42

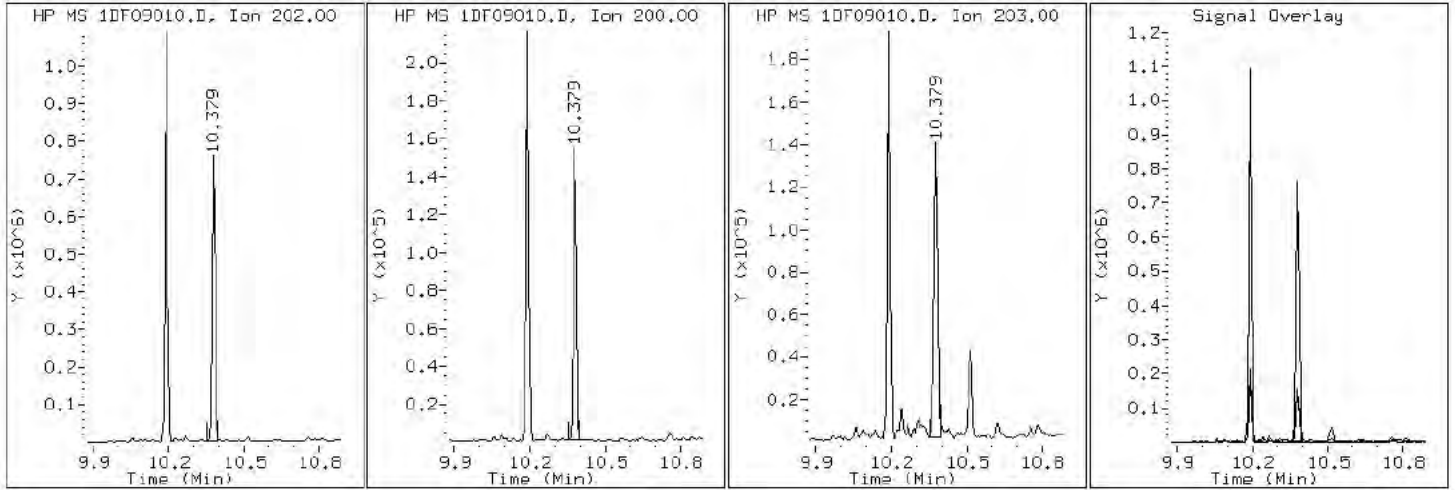
Client ID: FM0349B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-14-a

Operator: SCC

17 Pyrene

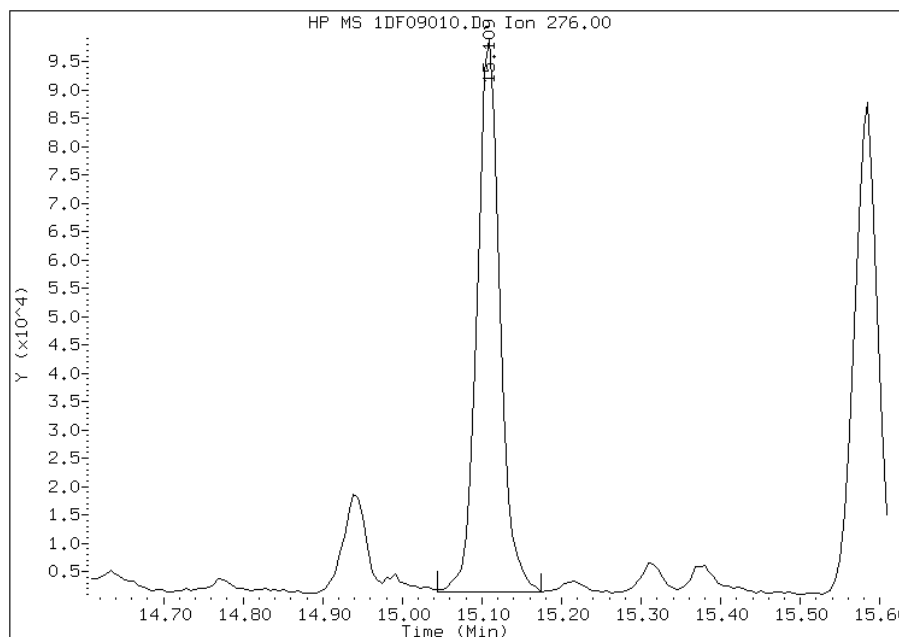


# Manual Integration Report

Data File: 1DF09010.D  
Inj. Date and Time: 09-JUN-2013 12:42  
Instrument ID: BSMSD.i  
Client ID: FM0349B-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

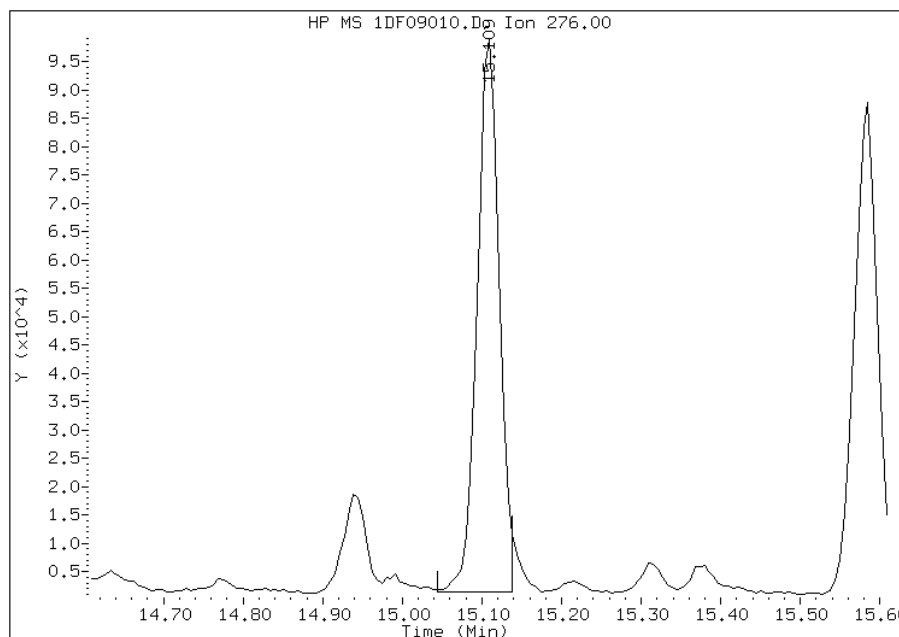
## Processing Integration Results

RT: 15.11  
Response: 193079  
Amount: 3  
Conc: 198



## Manual Integration Results

RT: 15.11  
Response: 187727  
Amount: 2  
Conc: 193



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:58  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV0995A-CS Lab Sample ID: 680-90852-16  
 Matrix: Solid Lab File ID: 1DF09011.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 10:30  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.01(g) Date Analyzed: 06/09/2013 13:04  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 37.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	640	U	640	130
208-96-8	Acenaphthylene	100	J	260	32
120-12-7	Anthracene	160		54	27
56-55-3	Benzo[a]anthracene	360		51	25
50-32-8	Benzo[a]pyrene	270		66	33
205-99-2	Benzo[b]fluoranthene	500		78	39
191-24-2	Benzo[g,h,i]perylene	200		130	28
207-08-9	Benzo[k]fluoranthene	130		51	23
218-01-9	Chrysene	570		57	29
53-70-3	Dibenz(a,h)anthracene	110	J	130	26
206-44-0	Fluoranthene	580		130	26
86-73-7	Fluorene	80	J	130	26
193-39-5	Indeno[1,2,3-cd]pyrene	210		130	45
90-12-0	1-Methylnaphthalene	1200		260	28
91-57-6	2-Methylnaphthalene	1400		260	45
91-20-3	Naphthalene	940		260	28
85-01-8	Phenanthrene	1000		51	25
129-00-0	Pyrene	460		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09011.D  
 Lab Smp Id: 680-90852-A-16-A Client Smp ID: CV0995A-CS  
 Inj Date : 09-JUN-2013 13:04  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-16-a  
 Misc Info : 680-90852-A-16-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 10  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	37.389	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.263	6.263	(1.000)	3234319	40.0000	
* 7 Acenaphthene-d10	164		7.932	7.932	(1.000)	1871778	40.0000	
* 11 Phenanthrene-d10	188		9.189	9.189	(1.000)	3123157	40.0000	
\$ 15 o-Terphenyl	230		9.495	9.500	(1.033)	62751	1.37145	580
* 19 Chrysene-d12	240		11.557	11.557	(1.000)	3094494	40.0000	
* 24 Perylene-d12	264		13.467	13.460	(1.000)	3159711	40.0000	
2 Naphthalene	128		6.281	6.281	(1.003)	176666	2.21497	940
3 2-Methylnaphthalene	142		6.980	6.980	(1.114)	165660	3.26202	1400
4 1-Methylnaphthalene	142		7.074	7.074	(1.129)	142650	2.72846	1200
6 Acenaphthylene	152		7.803	7.802	(0.984)	18168	0.23410	100
10 Fluorene	166		8.396	8.402	(1.059)	10486	0.18825	80
12 Phenanthrene	178		9.207	9.207	(1.002)	207459	2.45266	1000
13 Anthracene	178		9.248	9.248	(1.006)	30003	0.36557	160
16 Fluoranthene	202		10.188	10.194	(1.109)	117166	1.35399	580

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.382	10.382	(0.898)	98081	1.08258	460
18 Benzo(a)anthracene	228	11.540	11.539	(0.998)	77804	0.84719	360
20 Chrysene	228	11.581	11.580	(1.002)	110179	1.33230	570
21 Benzo(b)fluoranthene	252	12.897	12.896	(0.958)	92265	1.16558	500
22 Benzo(k)fluoranthene	252	12.926	12.938	(0.960)	24411	0.29448	120
23 Benzo(a)pyrene	252	13.361	13.361	(0.992)	42775	0.64431	270
25 Indeno(1,2,3-cd)pyrene	276	15.100	15.111	(1.121)	28640	0.49675	210(M)
26 Dibenzo(a,h)anthracene	278	15.135	15.147	(1.124)	14727	0.26699	110
27 Benzo(g,h,i)perylene	276	15.570	15.587	(1.156)	34080	0.47501	200

QC Flag Legend

M - Compound response manually integrated.



Data File: 1DF09011.D

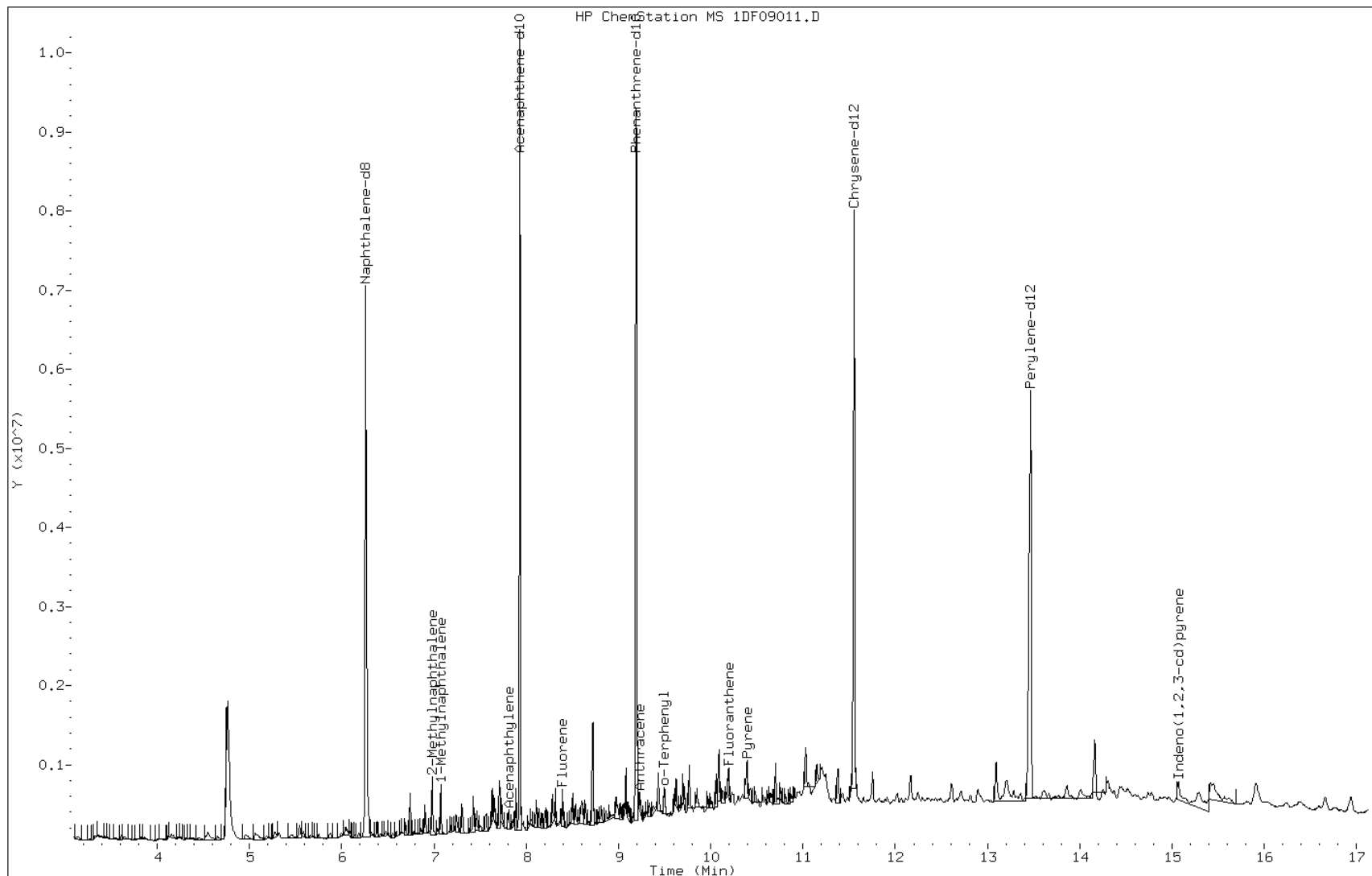
Date: 09-JUN-2013 13:04

Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

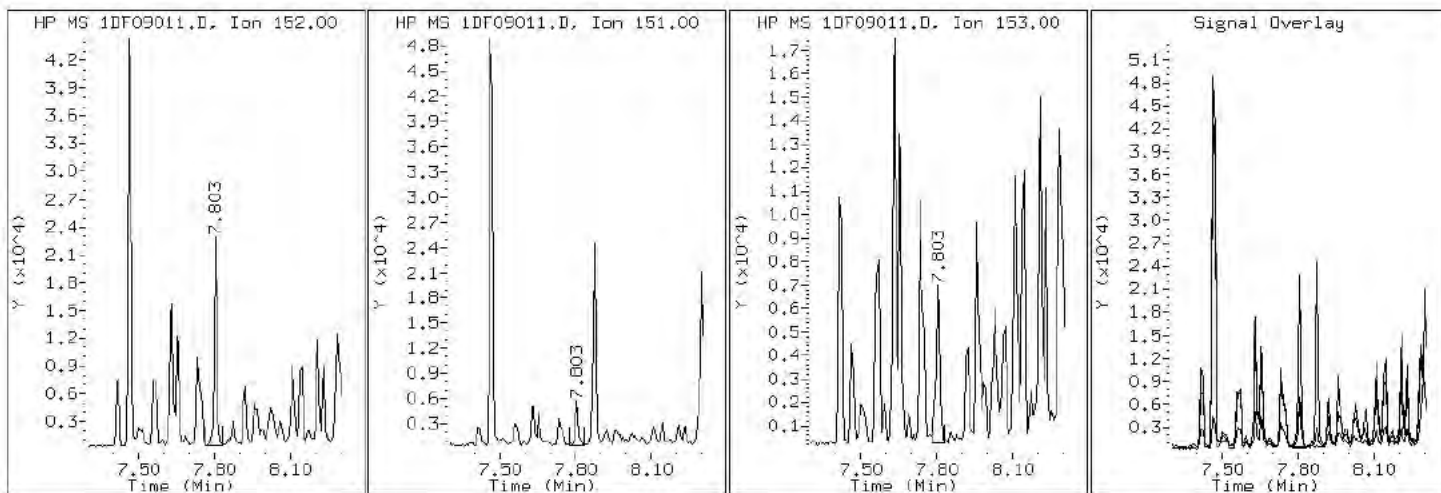
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

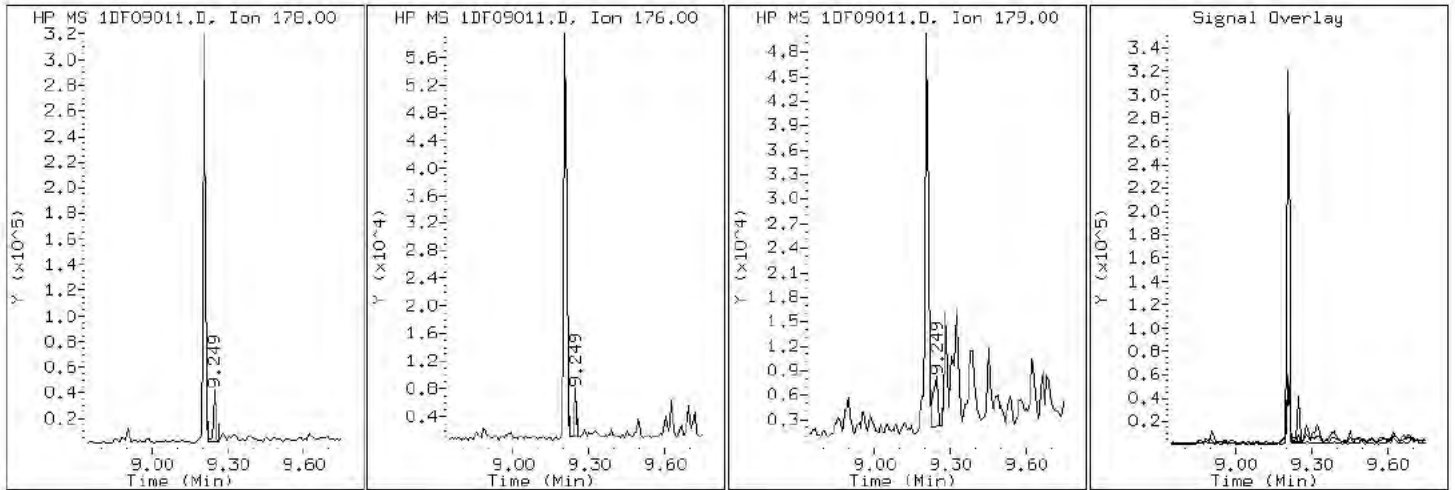
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

13 Anthracene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

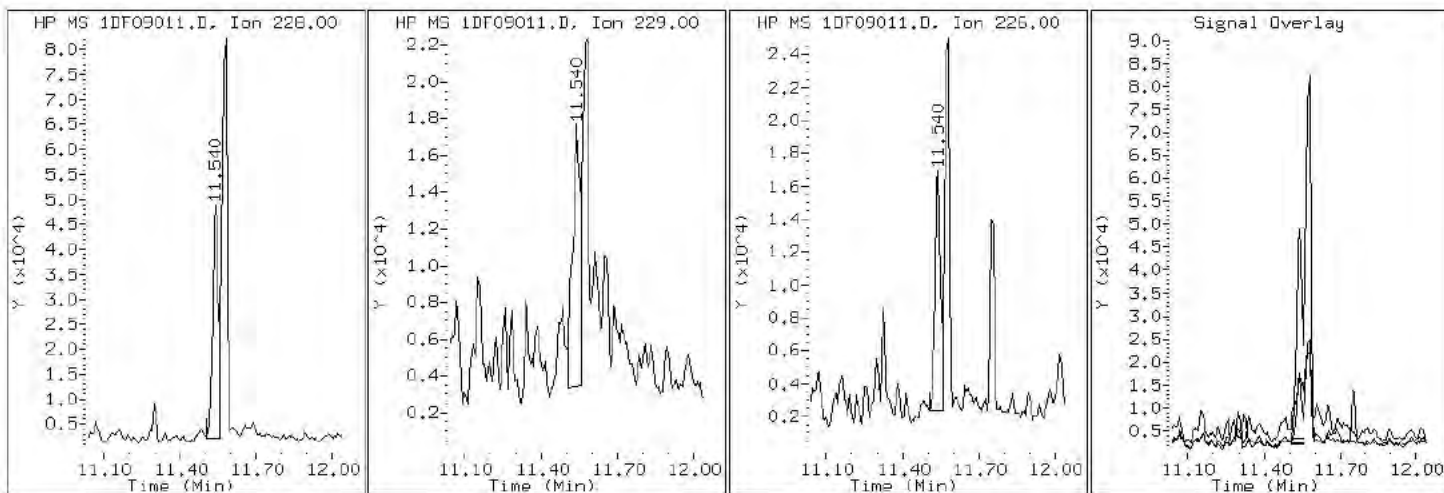
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

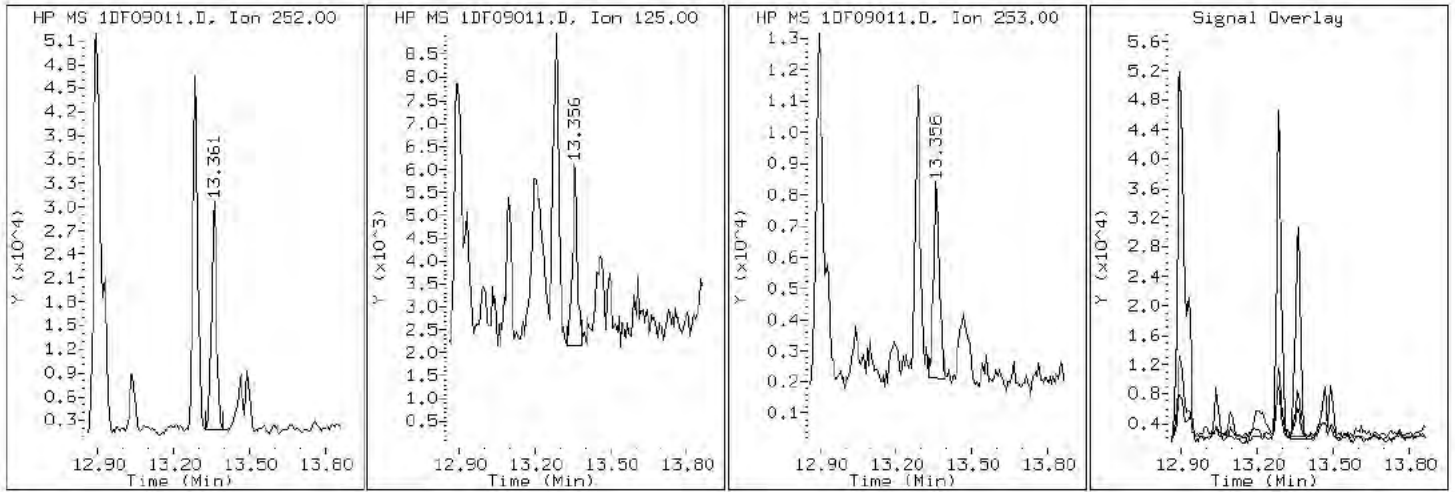
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

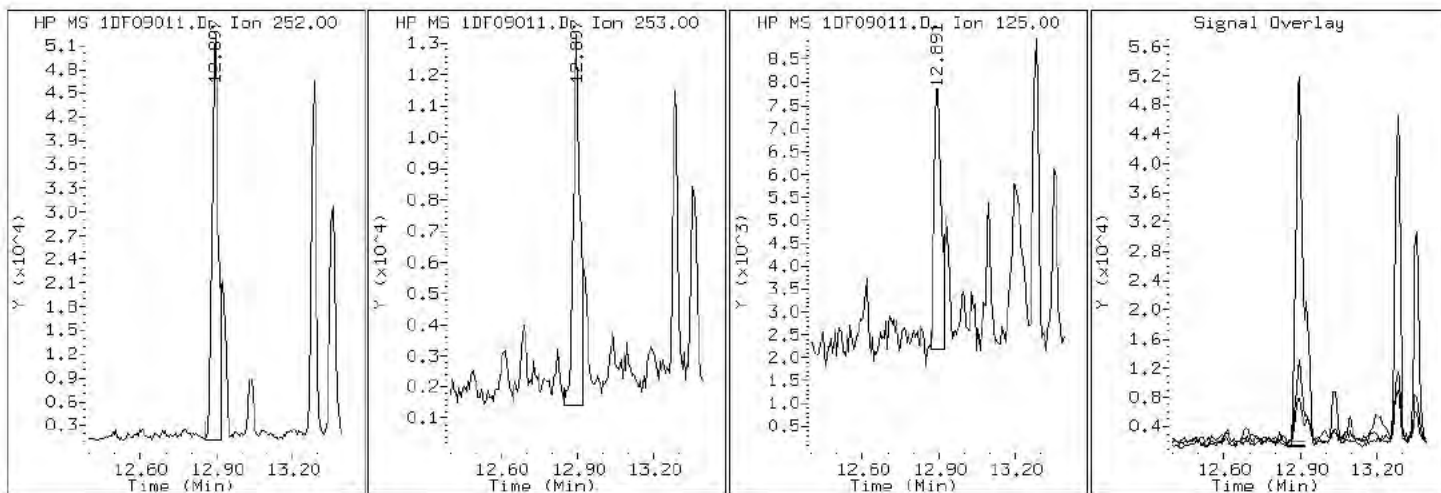
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

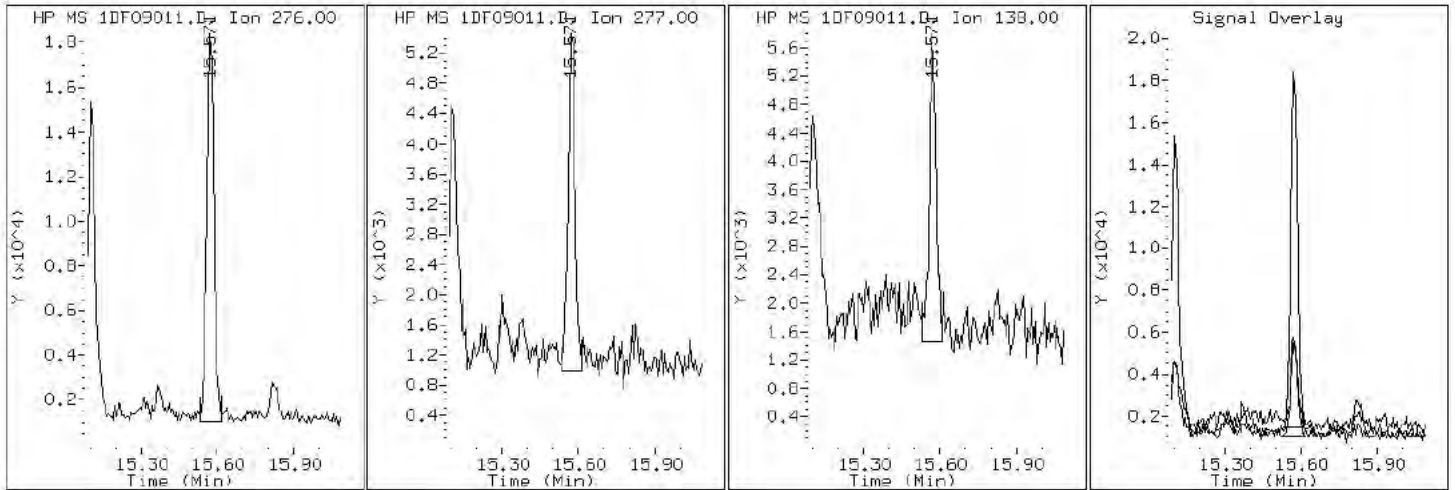
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

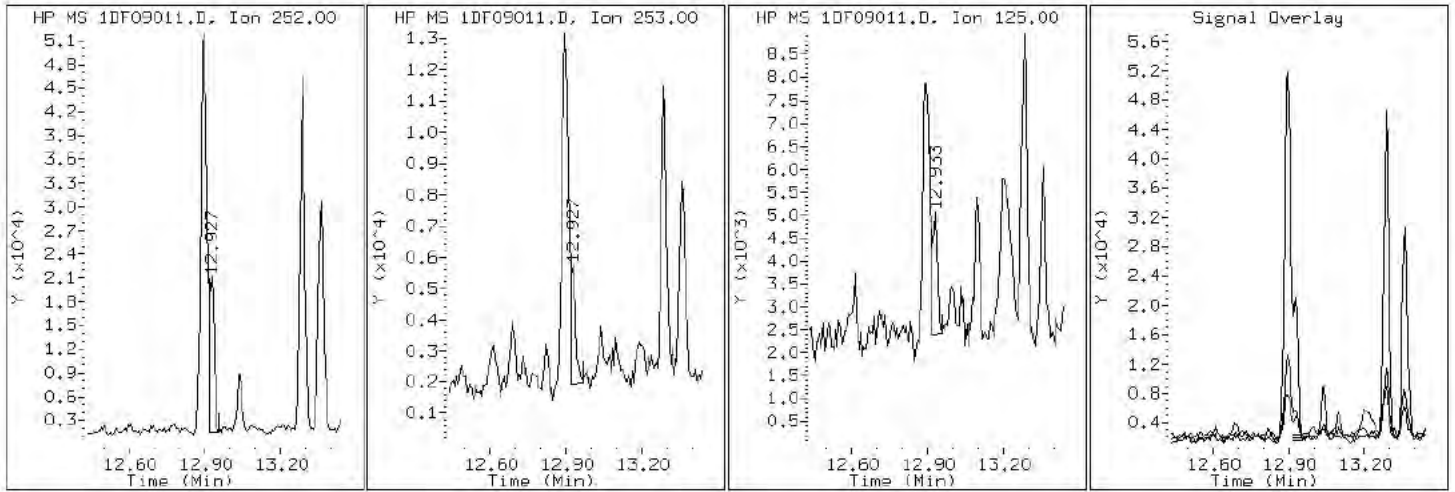
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

22 Benzo(k)fluoranthene





Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

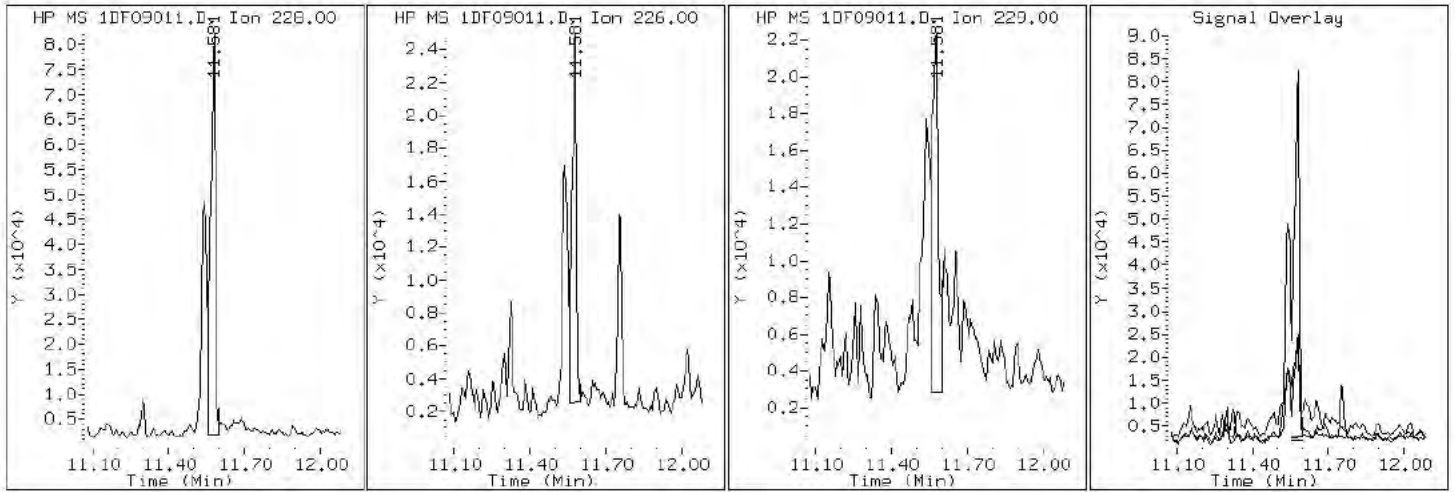
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

20 Chrysene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

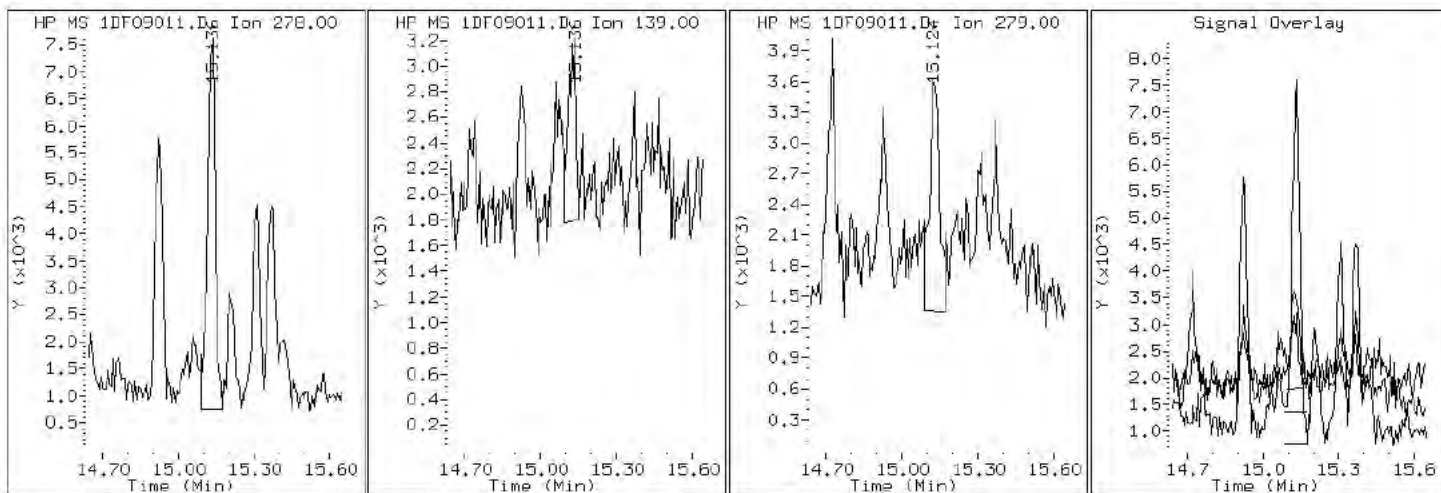
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

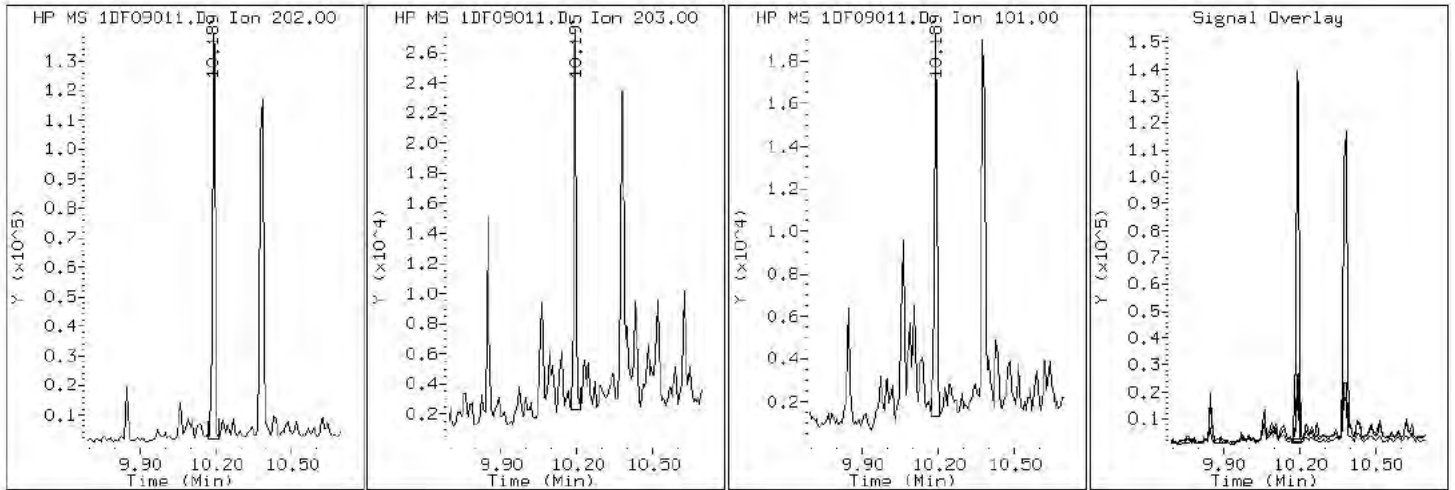
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

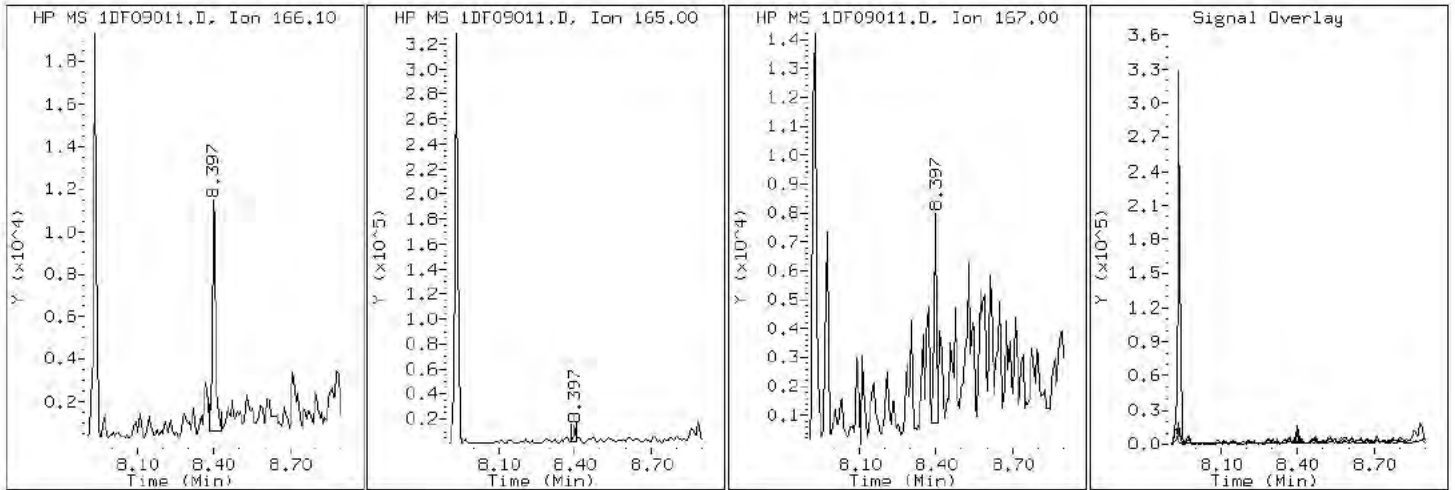
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

10 Fluorene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

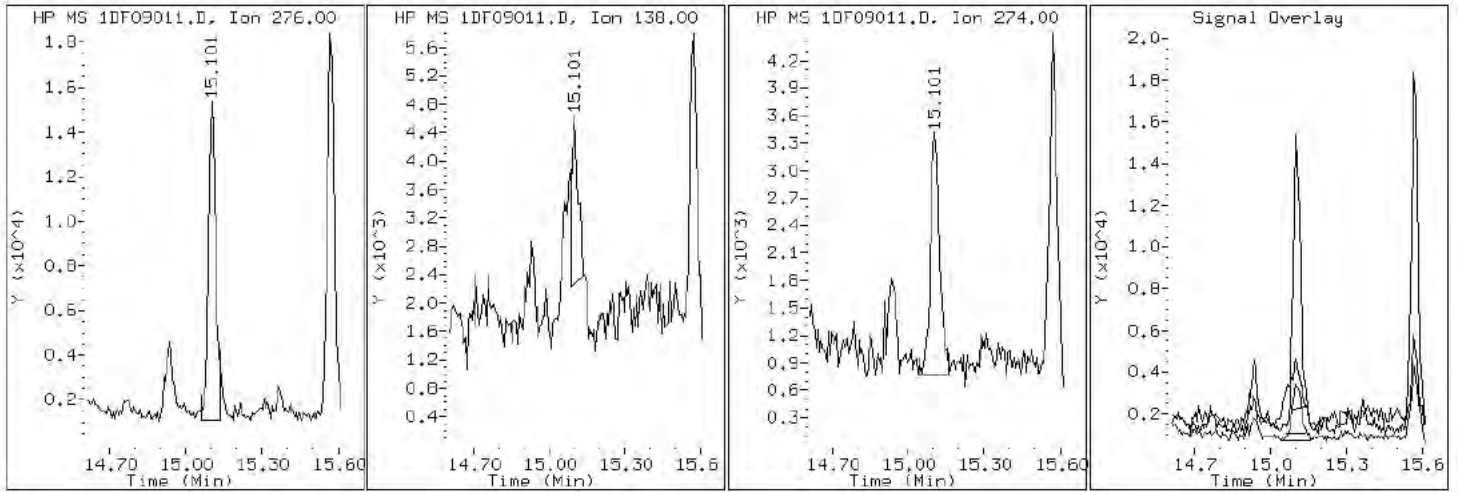
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

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



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

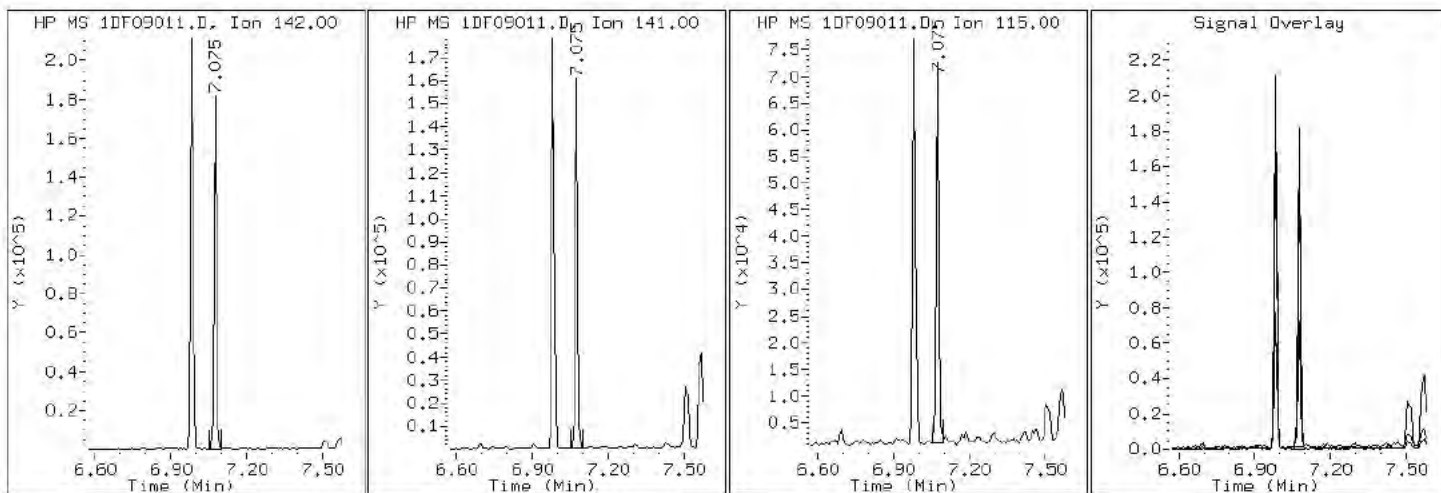
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

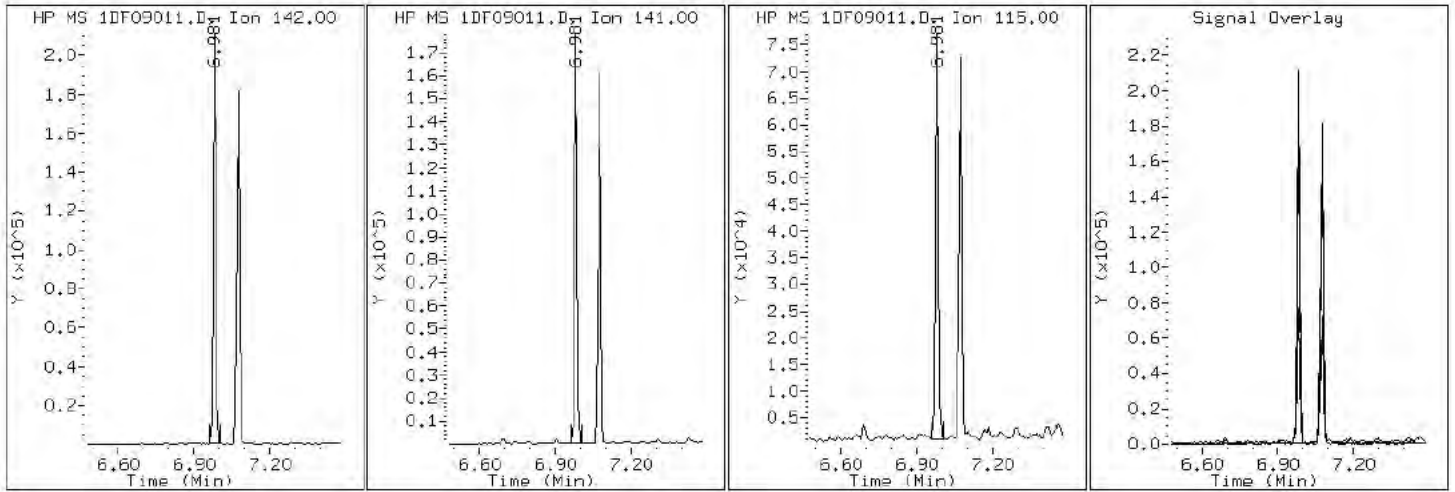
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

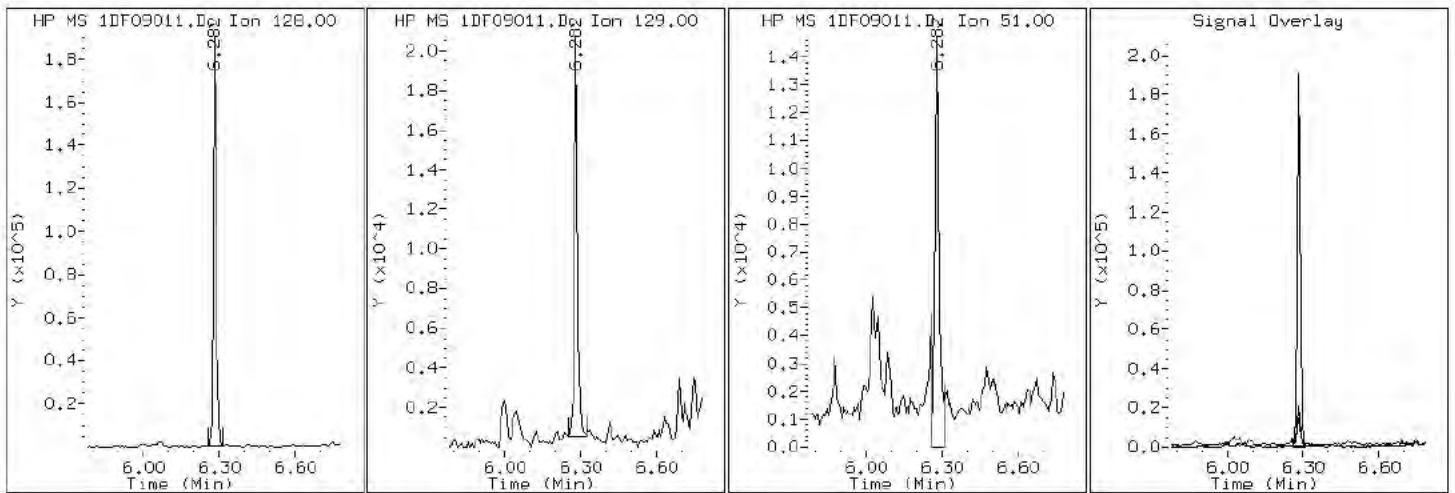
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

2 Naphthalene





Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

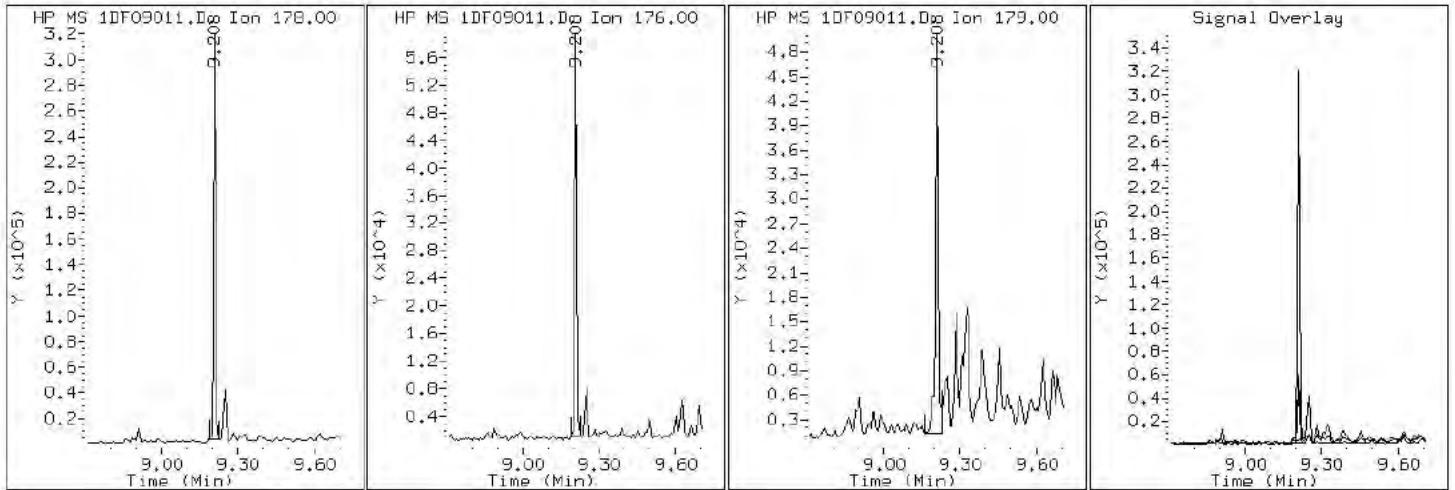
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09011.D

Date: 09-JUN-2013 13:04

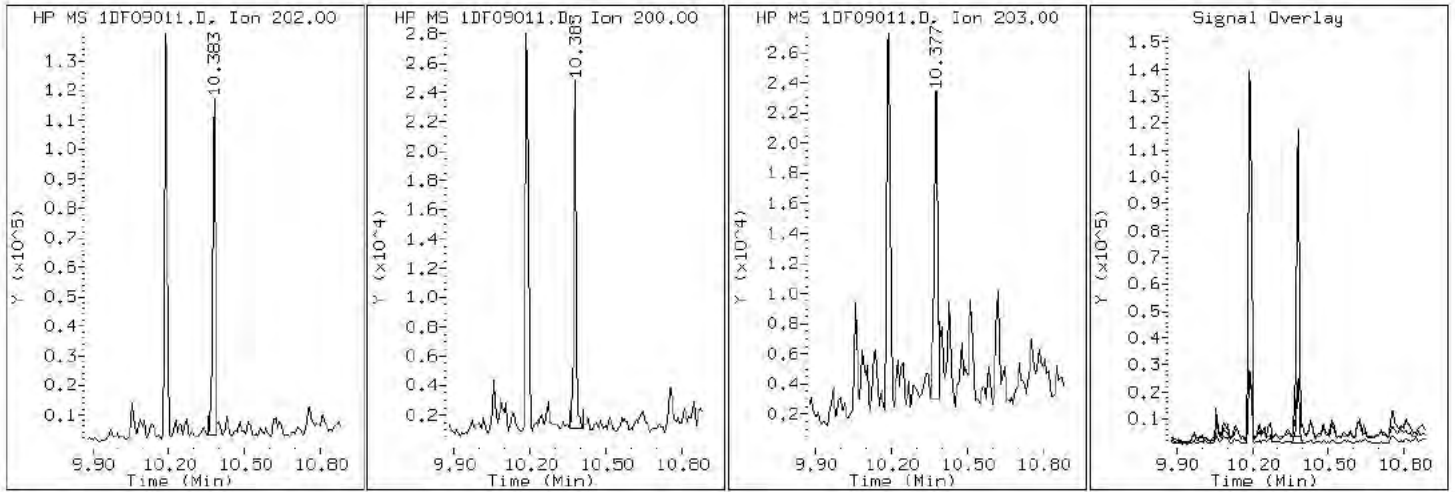
Client ID: CV0995A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-16-a

Operator: SCC

17 Pyrene

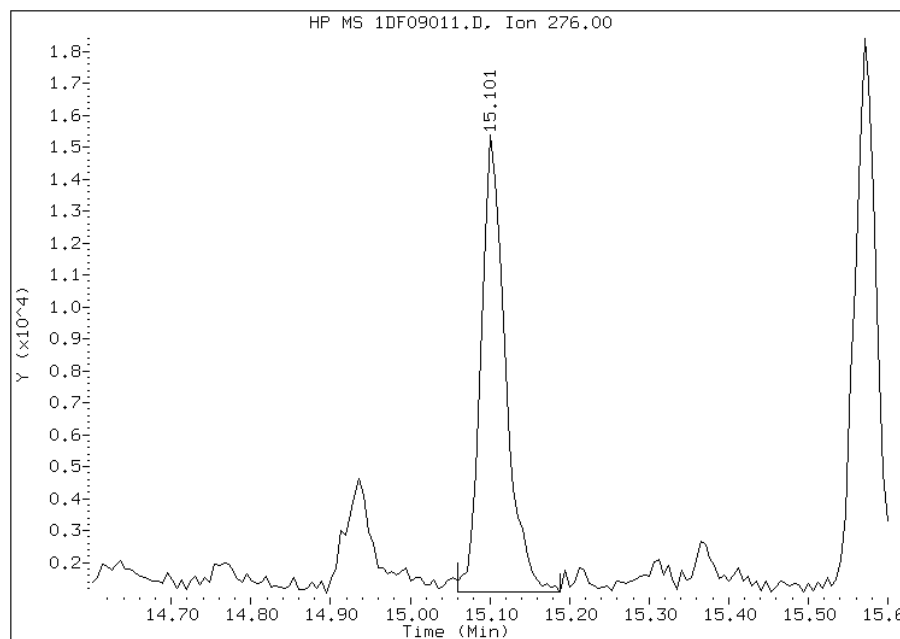


# Manual Integration Report

Data File: 1DF09011.D  
Inj. Date and Time: 09-JUN-2013 13:04  
Instrument ID: BSMSD.i  
Client ID: CV0995A-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

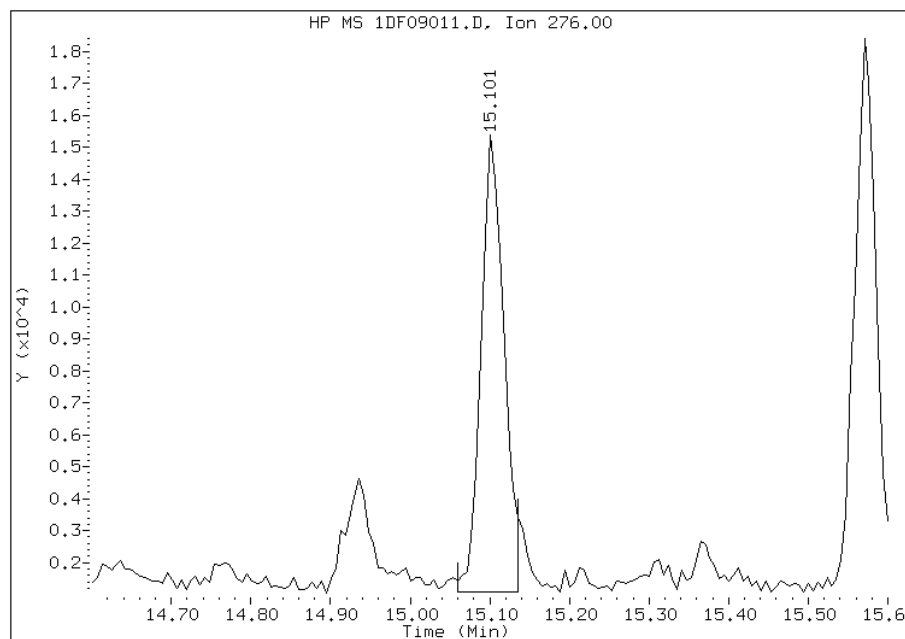
## Processing Integration Results

RT: 15.10  
Response: 30339  
Amount: 1  
Conc: 220



## Manual Integration Results

RT: 15.10  
Response: 28640  
Amount: 0  
Conc: 211



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:59  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV1248A-CS Lab Sample ID: 680-90852-17  
 Matrix: Solid Lab File ID: 1DF09012.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 08:35  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.05(g) Date Analyzed: 06/09/2013 13:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 11.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	90
208-96-8	Acenaphthylene	52	J	180	23
120-12-7	Anthracene	200		38	19
56-55-3	Benzo[a]anthracene	520		36	18
50-32-8	Benzo[a]pyrene	490		47	23
205-99-2	Benzo[b]fluoranthene	770		55	27
191-24-2	Benzo[g,h,i]perylene	390		90	20
207-08-9	Benzo[k]fluoranthene	270		36	16
218-01-9	Chrysene	590		41	20
53-70-3	Dibenz(a,h)anthracene	130		90	18
206-44-0	Fluoranthene	1000		90	18
86-73-7	Fluorene	72	J	90	18
193-39-5	Indeno[1,2,3-cd]pyrene	360		90	32
90-12-0	1-Methylnaphthalene	220		180	20
91-57-6	2-Methylnaphthalene	280		180	32
91-20-3	Naphthalene	190		180	20
85-01-8	Phenanthrene	890		36	18
129-00-0	Pyrene	800		90	17

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09012.D  
 Lab Smp Id: 680-90852-A-17-A Client Smp ID: CV1248A-CS  
 Inj Date : 09-JUN-2013 13:27  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-17-a  
 Misc Info : 680-90852-A-17-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 11  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	11.417	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.260	6.263	(1.000)	3240314	40.0000			
* 7 Acenaphthene-d10	164	7.935	7.932	(1.000)	1875348	40.0000			
* 11 Phenanthrene-d10	188	9.192	9.189	(1.000)	3031291	40.0000			
\$ 15 o-Terphenyl	230	9.497	9.500	(1.033)	90789	2.04437	610		
* 19 Chrysene-d12	240	11.554	11.557	(1.000)	3006050	40.0000			
* 24 Perylene-d12	264	13.469	13.460	(1.000)	3047326	40.0000			
2 Naphthalene	128	6.284	6.281	(1.004)	51048	0.63884	190		
3 2-Methylnaphthalene	142	6.983	6.980	(1.115)	48236	0.94806	280		
4 1-Methylnaphthalene	142	7.077	7.074	(1.130)	37932	0.72418	220		
6 Acenaphthylene	152	7.805	7.802	(0.984)	13584	0.17470	52		
8 Acenaphthene	154	7.958	7.961	(1.003)	14321	0.29034	87		
10 Fluorene	166	8.399	8.402	(1.058)	13319	0.23865	72		
12 Phenanthrene	178	9.210	9.207	(1.002)	244368	2.97656	890		
13 Anthracene	178	9.251	9.248	(1.006)	53013	0.66552	200		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.191	10.194 (1.109)		290603	3.46003	1000
17 Pyrene	202	10.379	10.382 (0.898)		234891	2.66891	800
18 Benzo(a)anthracene	228	11.536	11.539 (0.998)		153714	1.72300	520
20 Chrysene	228	11.577	11.580 (1.002)		156995	1.95426	590
21 Benzo(b)fluoranthene	252	12.893	12.896 (0.957)		195772	2.56440	770
22 Benzo(k)fluoranthene	252	12.929	12.938 (0.960)		72572	0.90777	270
23 Benzo(a)pyrene	252	13.358	13.361 (0.992)		116681	1.64231	490
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.111 (1.121)		84606	1.21618	360(M)
26 Dibenzo(a,h)anthracene	278	15.132	15.147 (1.123)		27120	0.44434	130
27 Benzo(g,h,i)perylene	276	15.573	15.587 (1.156)		89132	1.28815	390

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09012.D

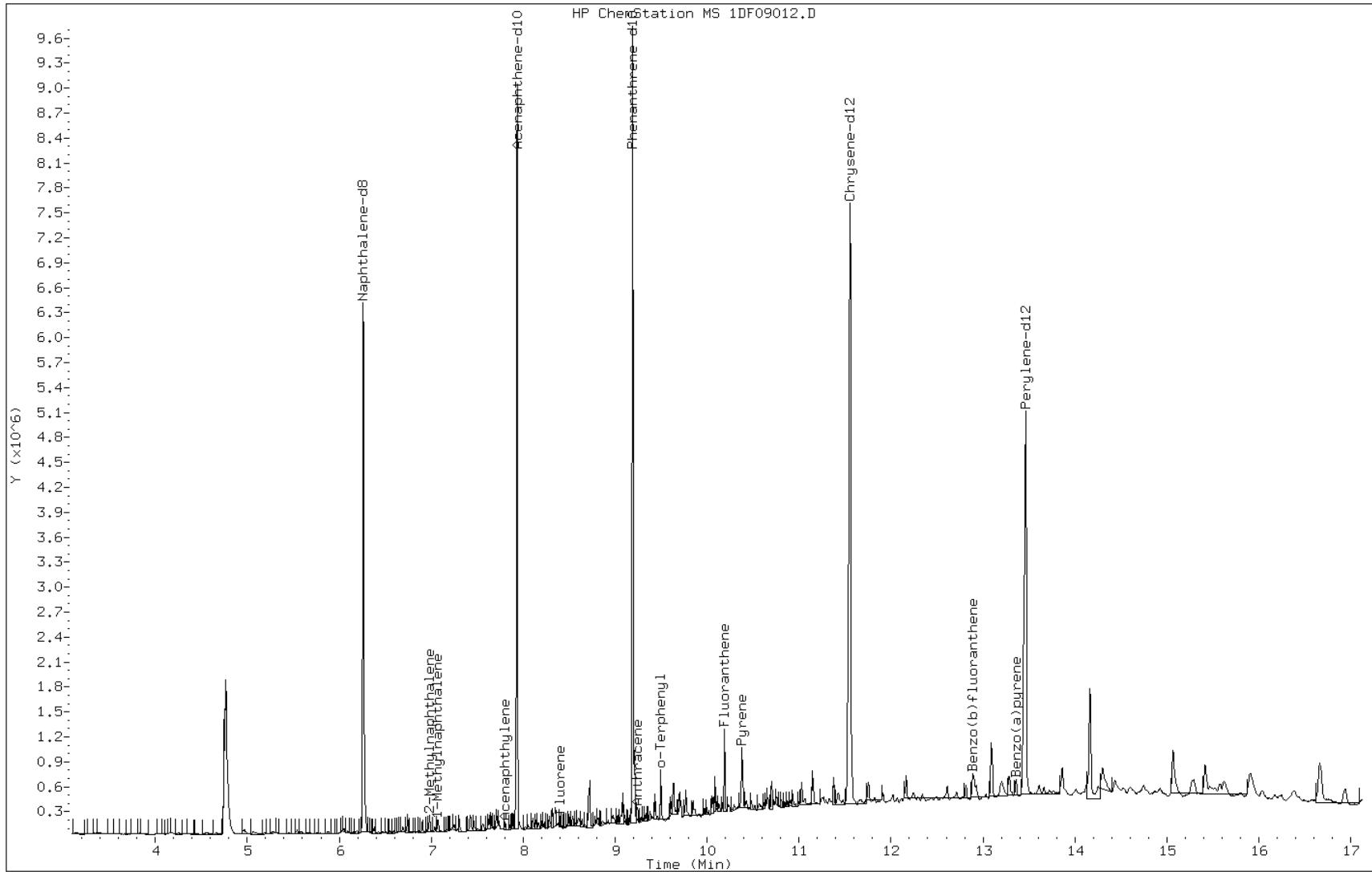
Date: 09-JUN-2013 13:27

Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

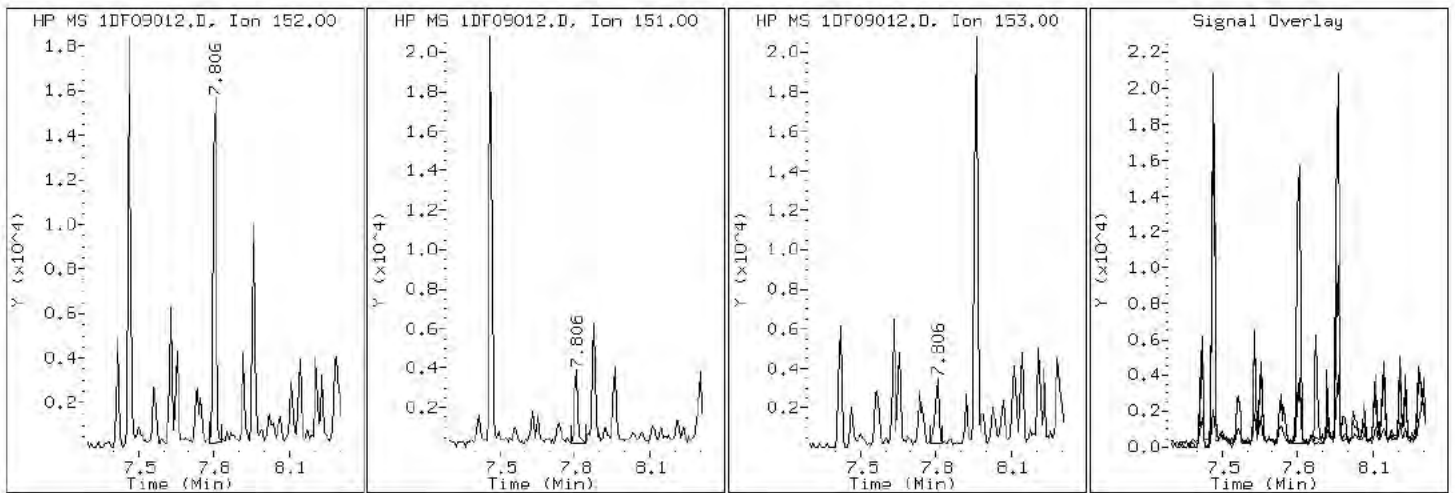
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

6 Acenaphthylene





Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

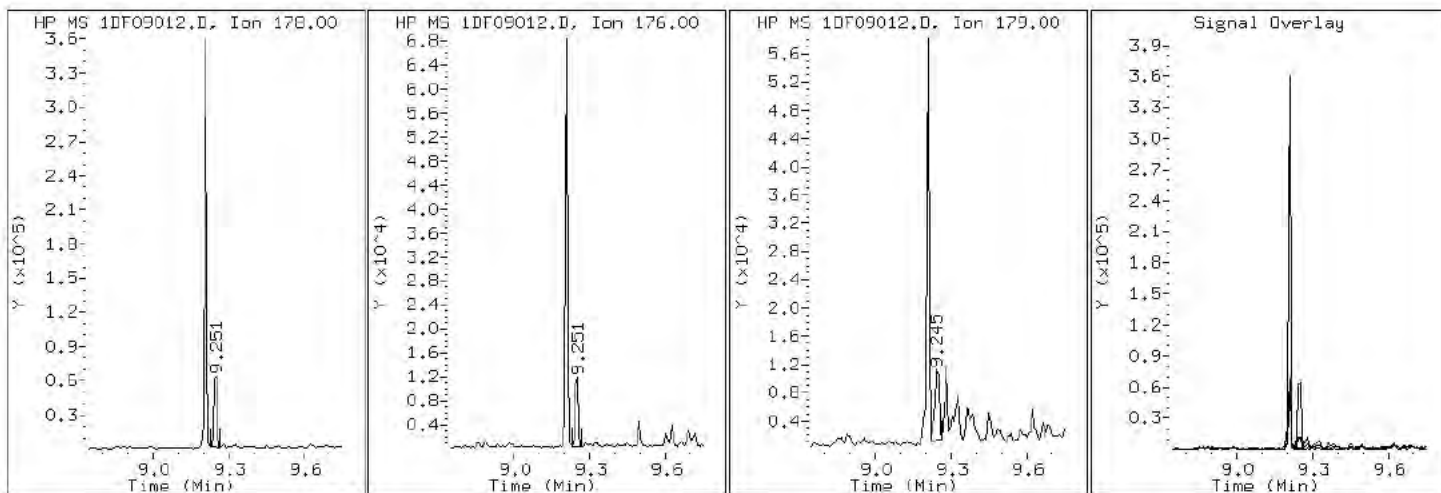
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

13 Anthracene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

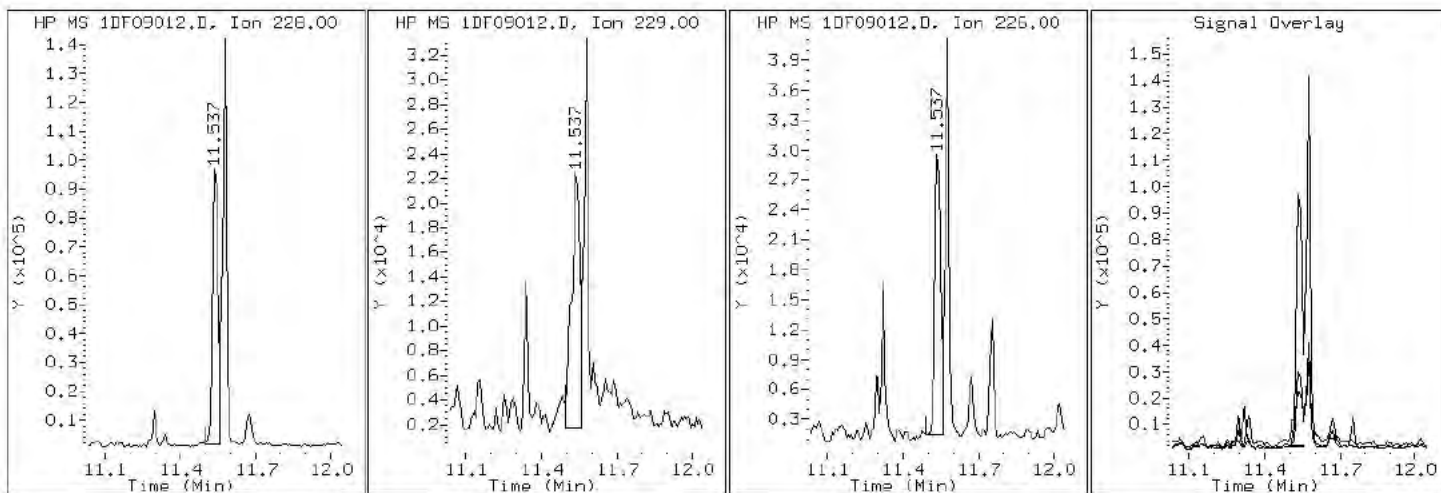
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

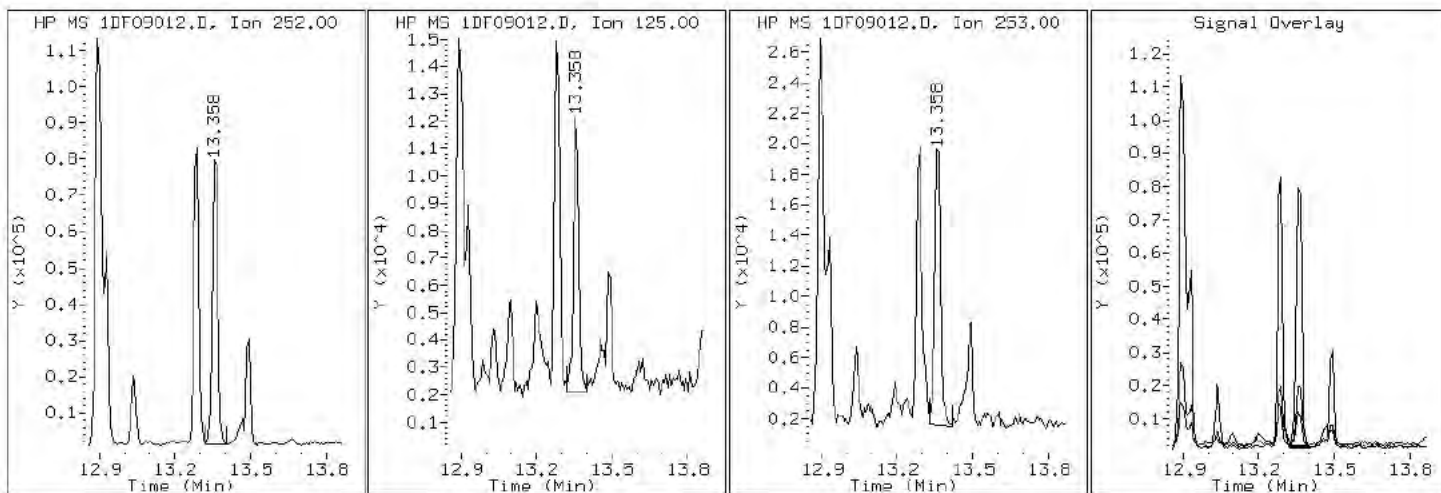
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

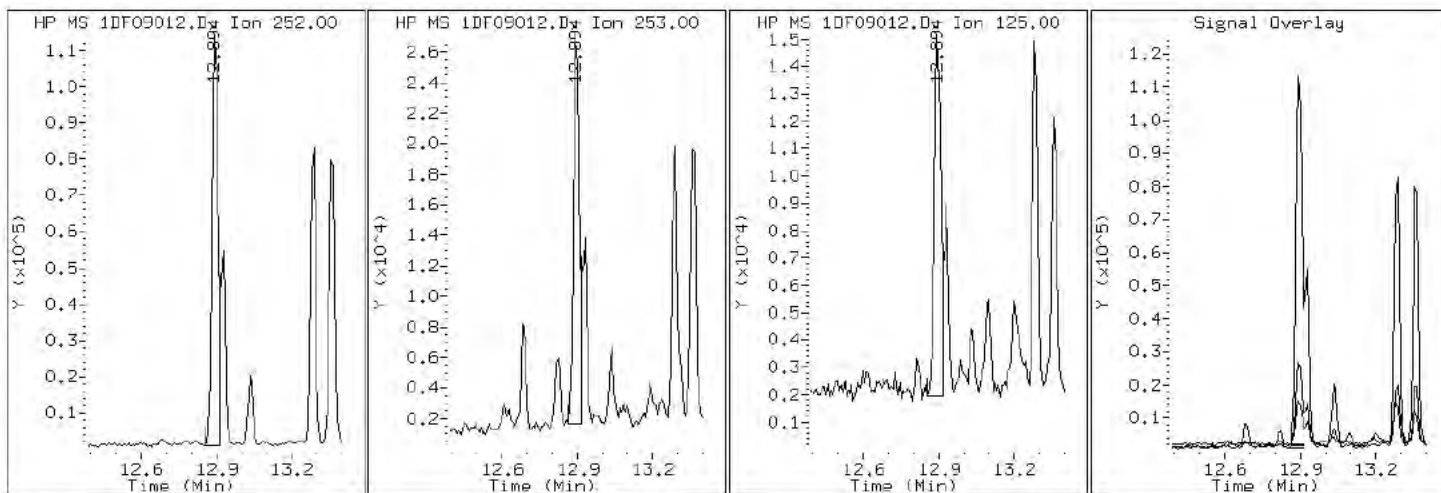
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

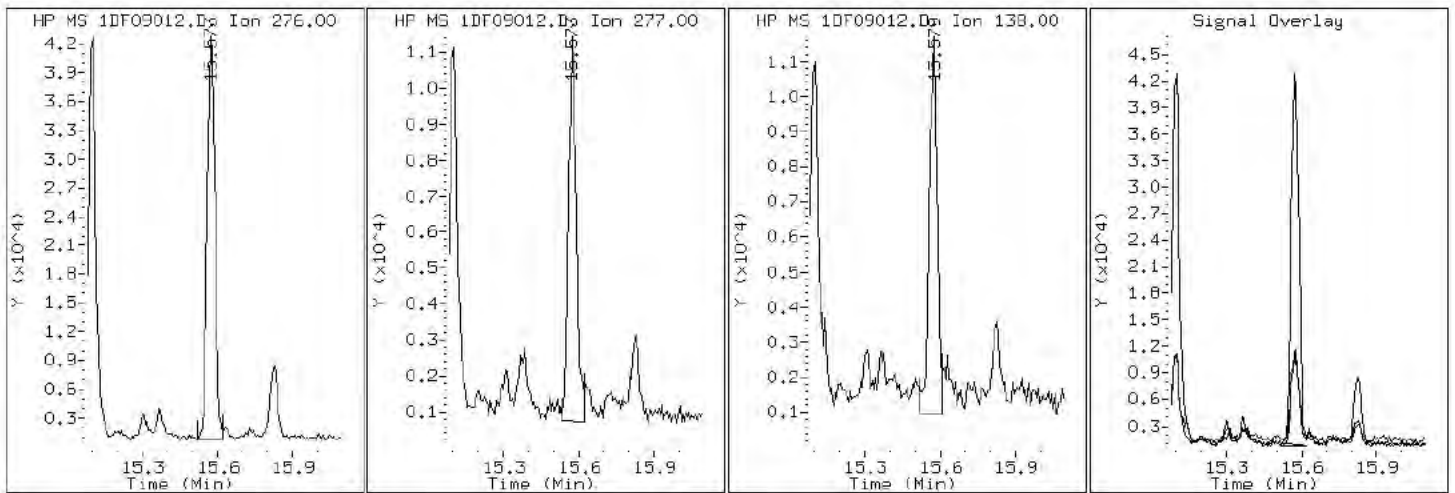
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

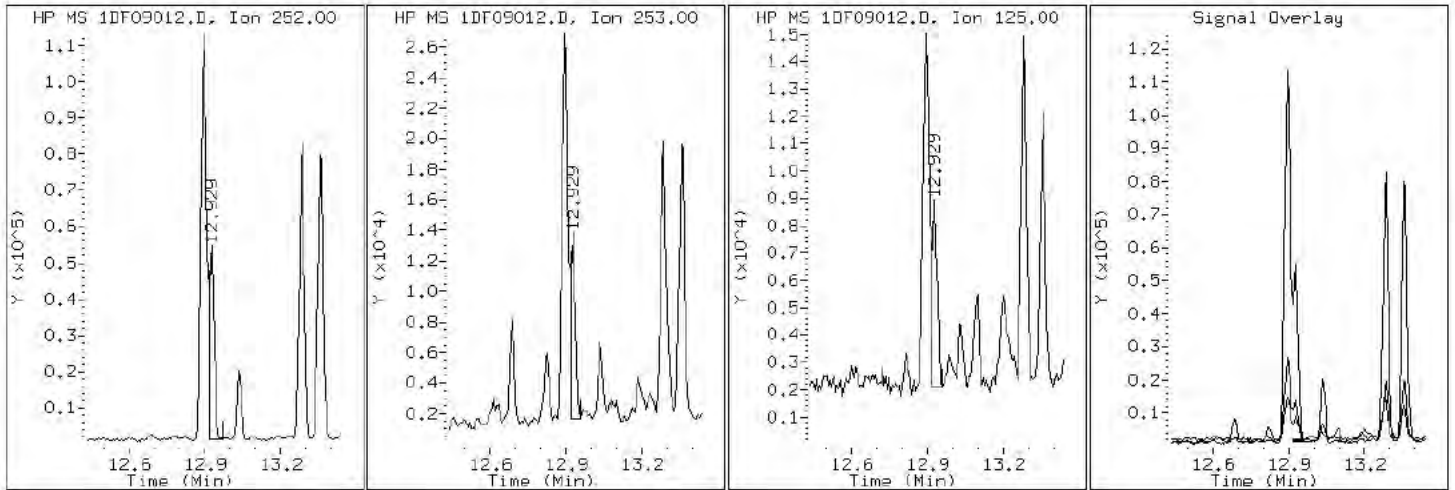
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

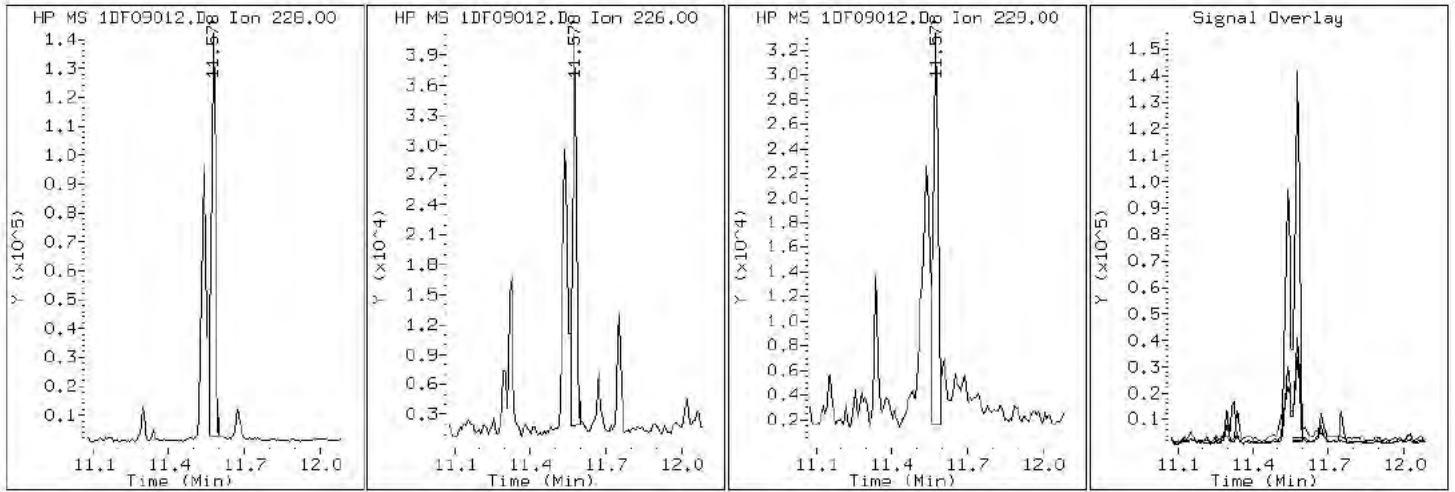
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

20 Chrysene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

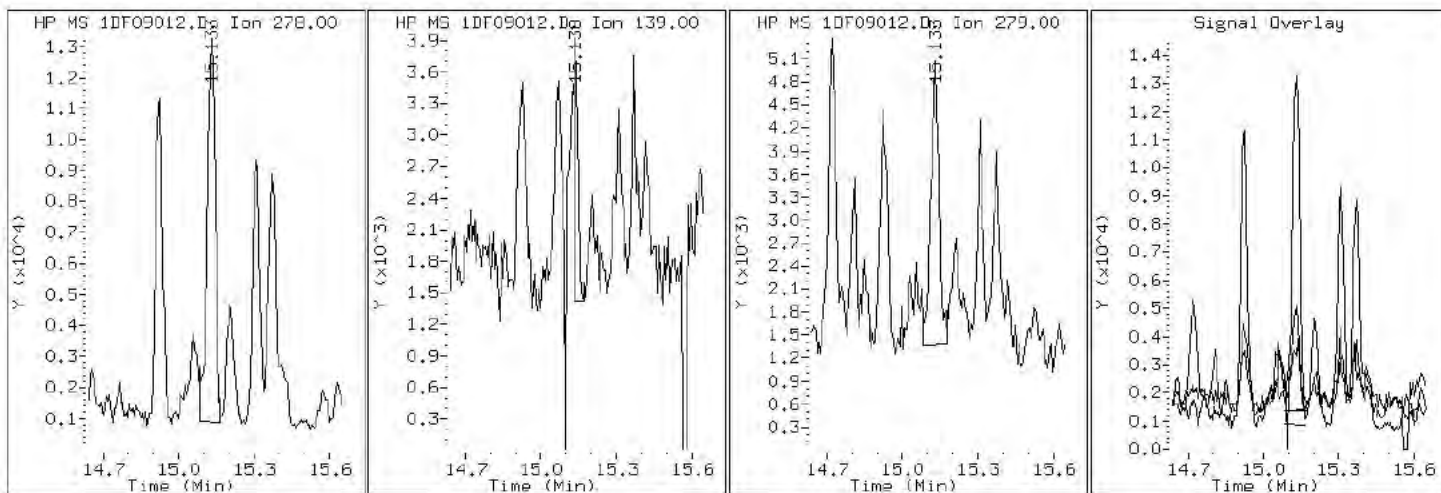
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

26 Dibenzo (a,h) anthracene





Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

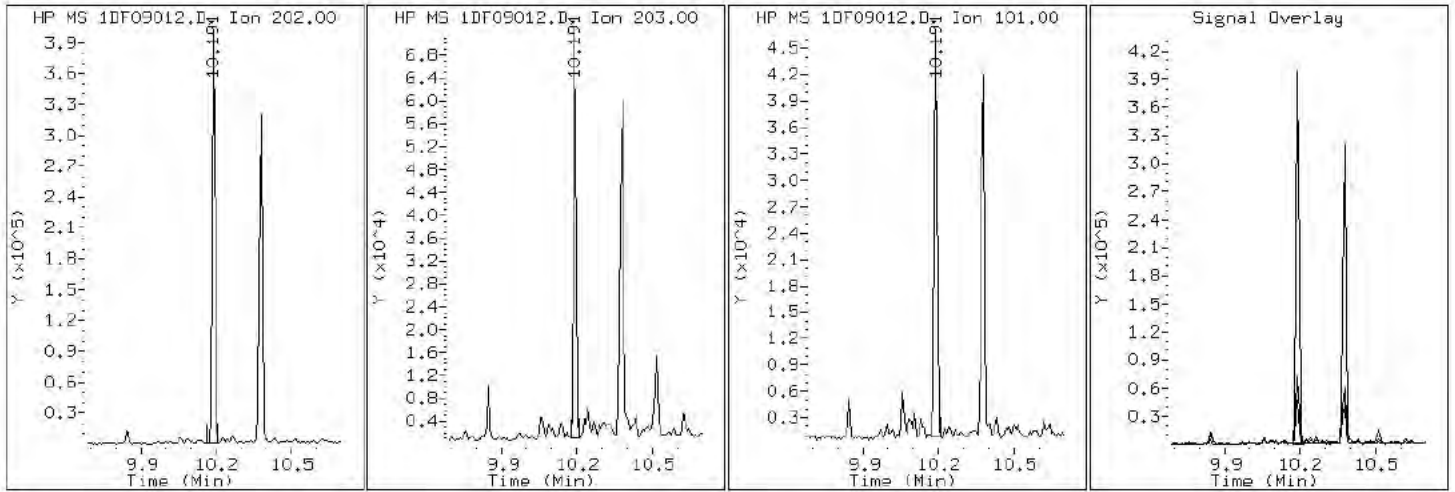
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

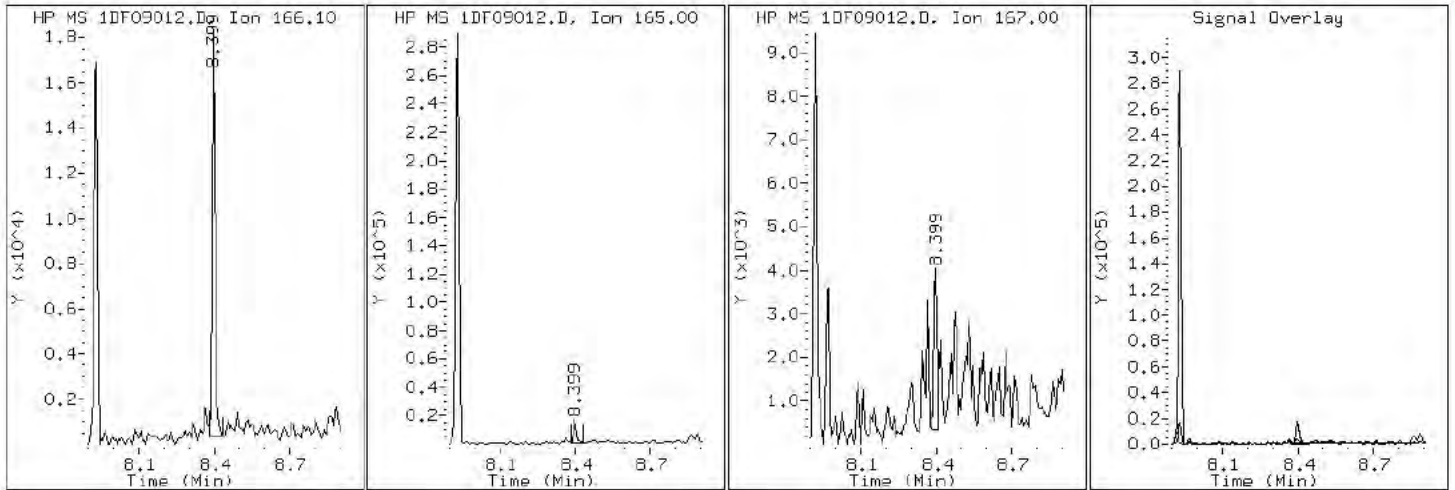
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

10 Fluorene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

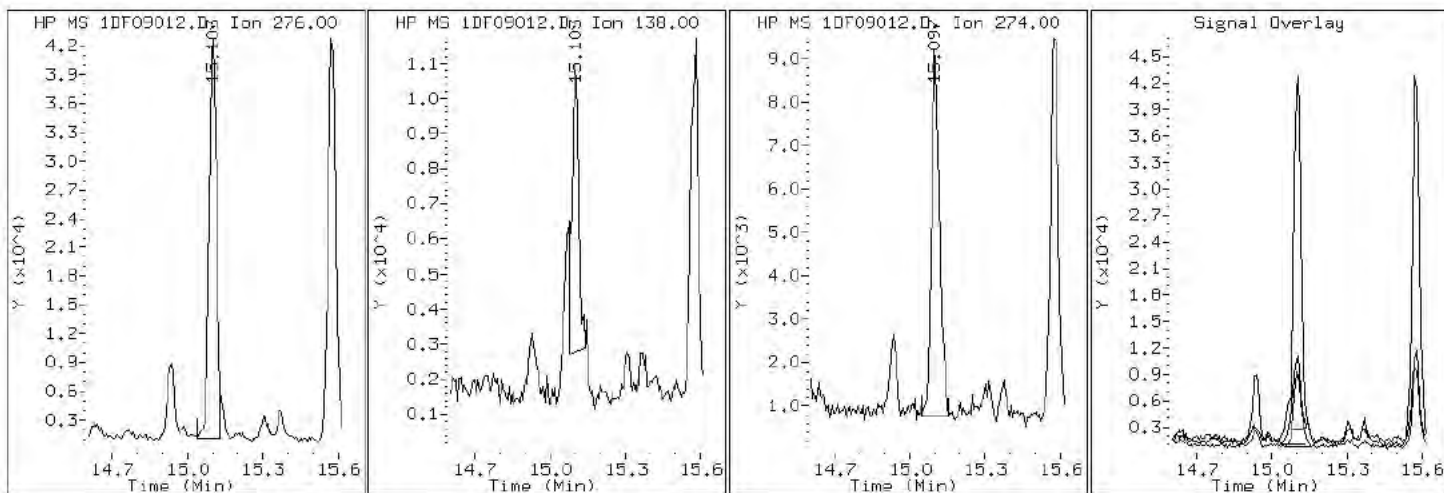
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

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



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

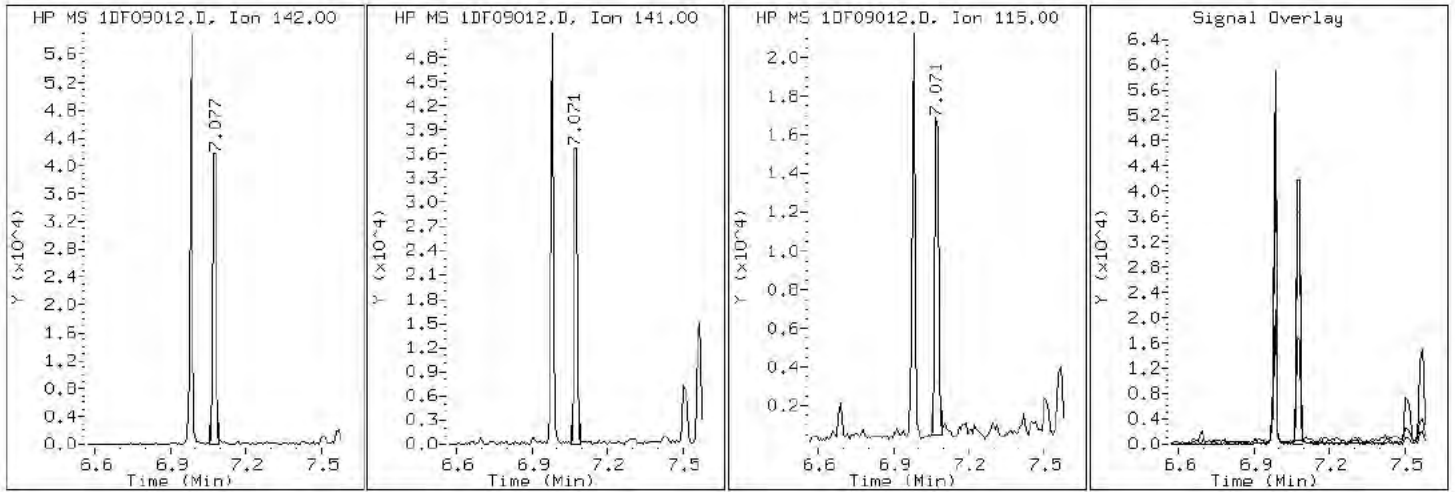
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

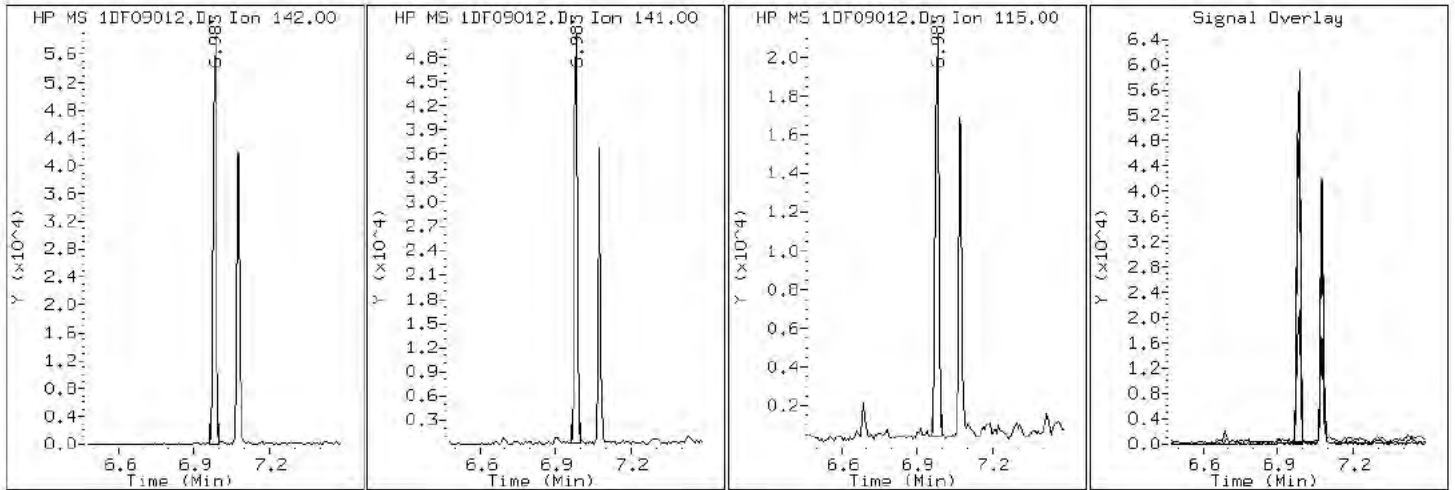
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

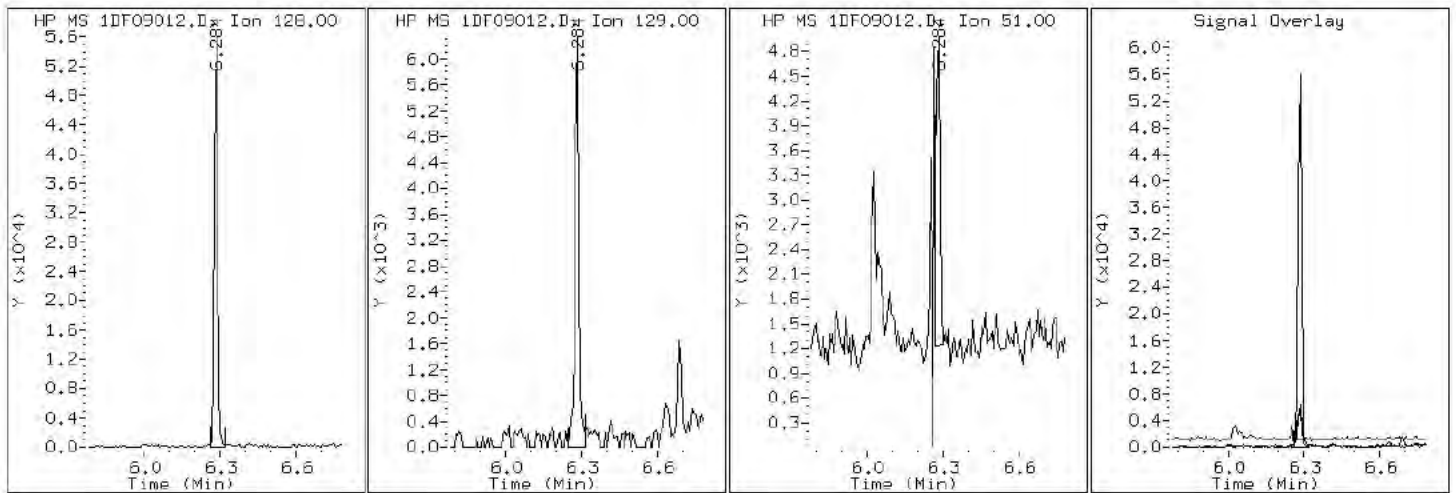
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

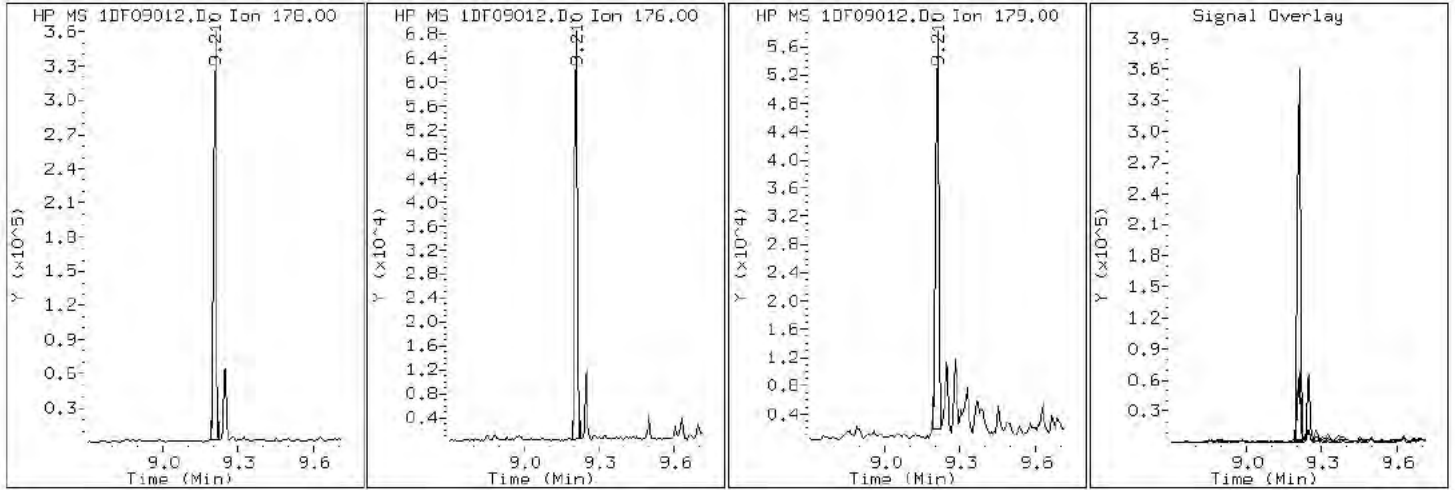
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09012.D

Date: 09-JUN-2013 13:27

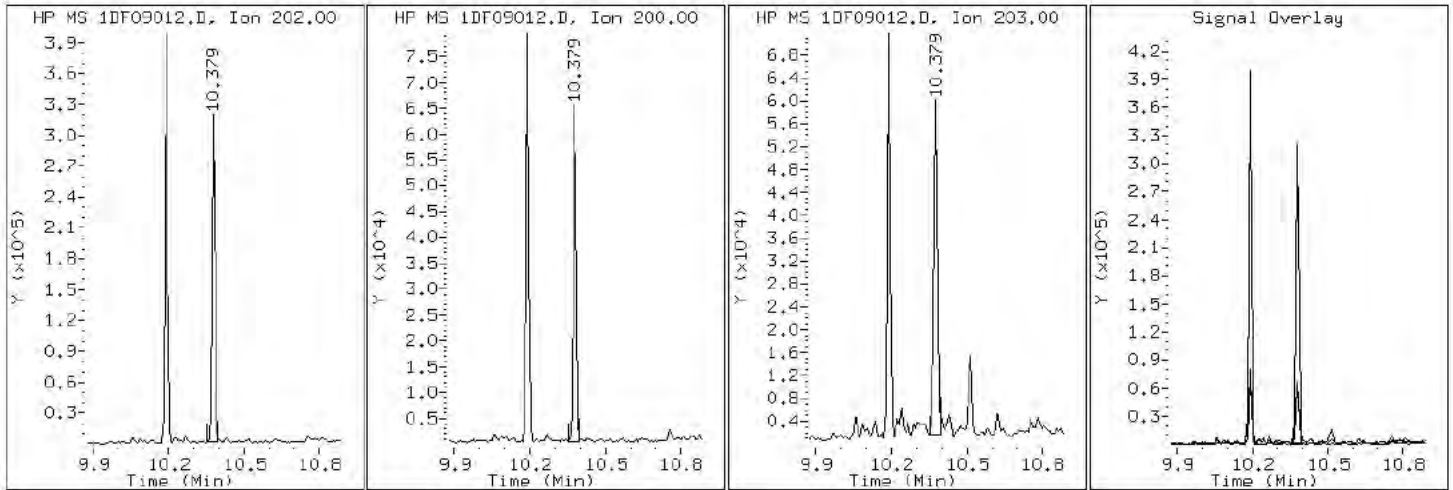
Client ID: CV1248A-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-17-a

Operator: SCC

17 Pyrene



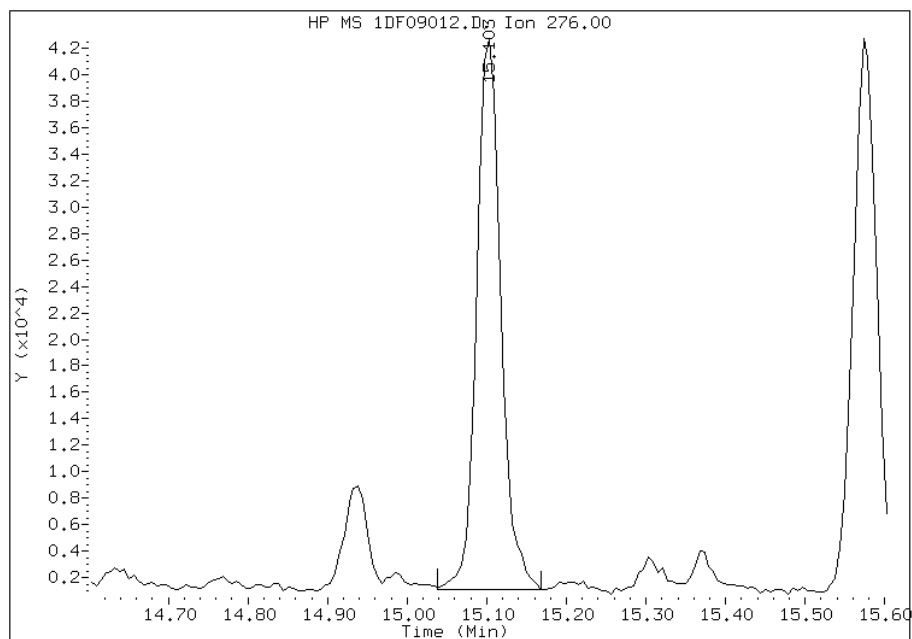


# Manual Integration Report

Data File: 1DF09012.D  
Inj. Date and Time: 09-JUN-2013 13:27  
Instrument ID: BSMSD.i  
Client ID: CV1248A-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

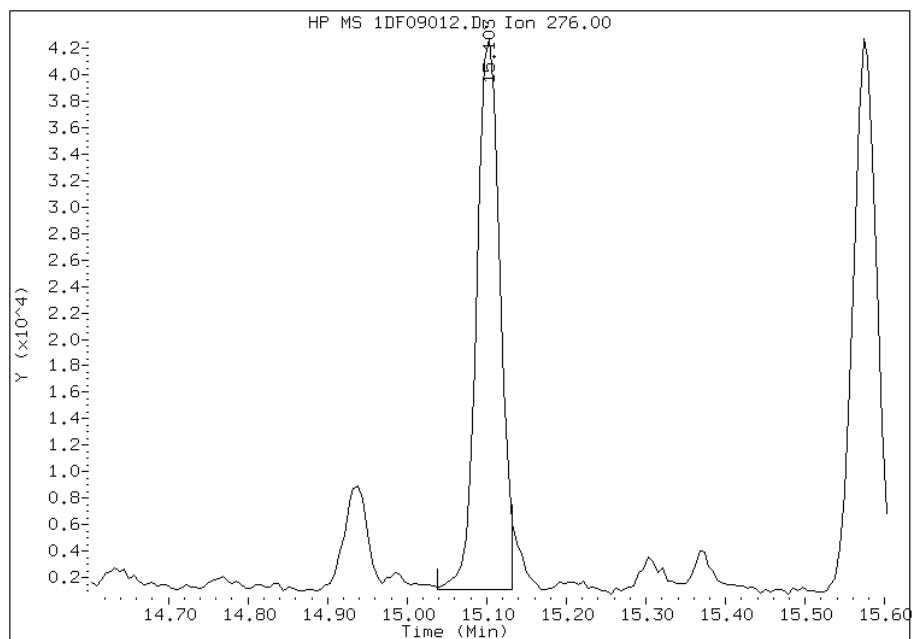
## Processing Integration Results

RT: 15.10  
Response: 87651  
Amount: 1  
Conc: 376



## Manual Integration Results

RT: 15.10  
Response: 84606  
Amount: 1  
Conc: 365



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:59  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV1248B-CS Lab Sample ID: 680-90852-18  
 Matrix: Solid Lab File ID: 1DF09013.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 08:45  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.12(g) Date Analyzed: 06/09/2013 13:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	160	J	200	26
120-12-7	Anthracene	310		43	22
56-55-3	Benzo[a]anthracene	630		41	20
50-32-8	Benzo[a]pyrene	610		53	27
205-99-2	Benzo[b]fluoranthene	1100		63	31
191-24-2	Benzo[g,h,i]perylene	460		100	23
207-08-9	Benzo[k]fluoranthene	290		41	18
218-01-9	Chrysene	830		46	23
53-70-3	Dibenz(a,h)anthracene	180		100	21
206-44-0	Fluoranthene	1100		100	20
86-73-7	Fluorene	94	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	440		100	36
90-12-0	1-Methylnaphthalene	410		200	23
91-57-6	2-Methylnaphthalene	450		200	36
91-20-3	Naphthalene	380		200	23
85-01-8	Phenanthrene	1100		41	20
129-00-0	Pyrene	880		100	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09013.D  
 Lab Smp Id: 680-90852-A-18-A Client Smp ID: CV1248B-CS  
 Inj Date : 09-JUN-2013 13:50  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-18-a  
 Misc Info : 680-90852-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 12  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	22.541	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.263	6.263	(1.000)	3020217	40.0000	
* 7 Acenaphthene-d10	164	7.931	7.932	(1.000)	1727071	40.0000	
* 11 Phenanthrene-d10	188	9.194	9.189	(1.000)	2878604	40.0000	
\$ 15 o-Terphenyl	230	9.500	9.500	(1.033)	73698	1.74754	600
* 19 Chrysene-d12	240	11.556	11.557	(1.000)	2885833	40.0000	
* 24 Perylene-d12	264	13.472	13.460	(1.000)	3021985	40.0000	
2 Naphthalene	128	6.286	6.281	(1.004)	82442	1.10690	380
3 2-Methylnaphthalene	142	6.979	6.980	(1.114)	62934	1.32709	450
4 1-Methylnaphthalene	142	7.073	7.074	(1.129)	58717	1.20269	410
6 Acenaphthylene	152	7.802	7.802	(0.984)	32929	0.45986	160
8 Acenaphthene	154	7.955	7.961	(1.003)	11292	0.24858	85
10 Fluorene	166	8.401	8.402	(1.059)	14077	0.27389	94
12 Phenanthrene	178	9.206	9.207	(1.001)	249503	3.20031	1100
13 Anthracene	178	9.247	9.248	(1.006)	69147	0.91410	310

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.193	10.194	(1.109)	265502	3.32884	1100
17 Pyrene	202	10.381	10.382	(0.898)	218715	2.58864	880
18 Benzo(a)anthracene	228	11.545	11.539	(0.999)	158085	1.84581	630
20 Chrysene	228	11.580	11.580	(1.002)	187295	2.42856	830
21 Benzo(b)fluoranthene	252	12.902	12.896	(0.958)	252123	3.33023	1100
22 Benzo(k)fluoranthene	252	12.931	12.938	(0.960)	68033	0.85813	290
23 Benzo(a)pyrene	252	13.366	13.361	(0.992)	127404	1.79833	610
25 Indeno(1,2,3-cd)pyrene	276	15.111	15.111	(1.122)	89961	1.29331	440(M)
26 Dibenzo(a,h)anthracene	278	15.135	15.147	(1.123)	33346	0.53366	180
27 Benzo(g,h,i)perylene	276	15.581	15.587	(1.157)	92894	1.35378	460

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09013.D

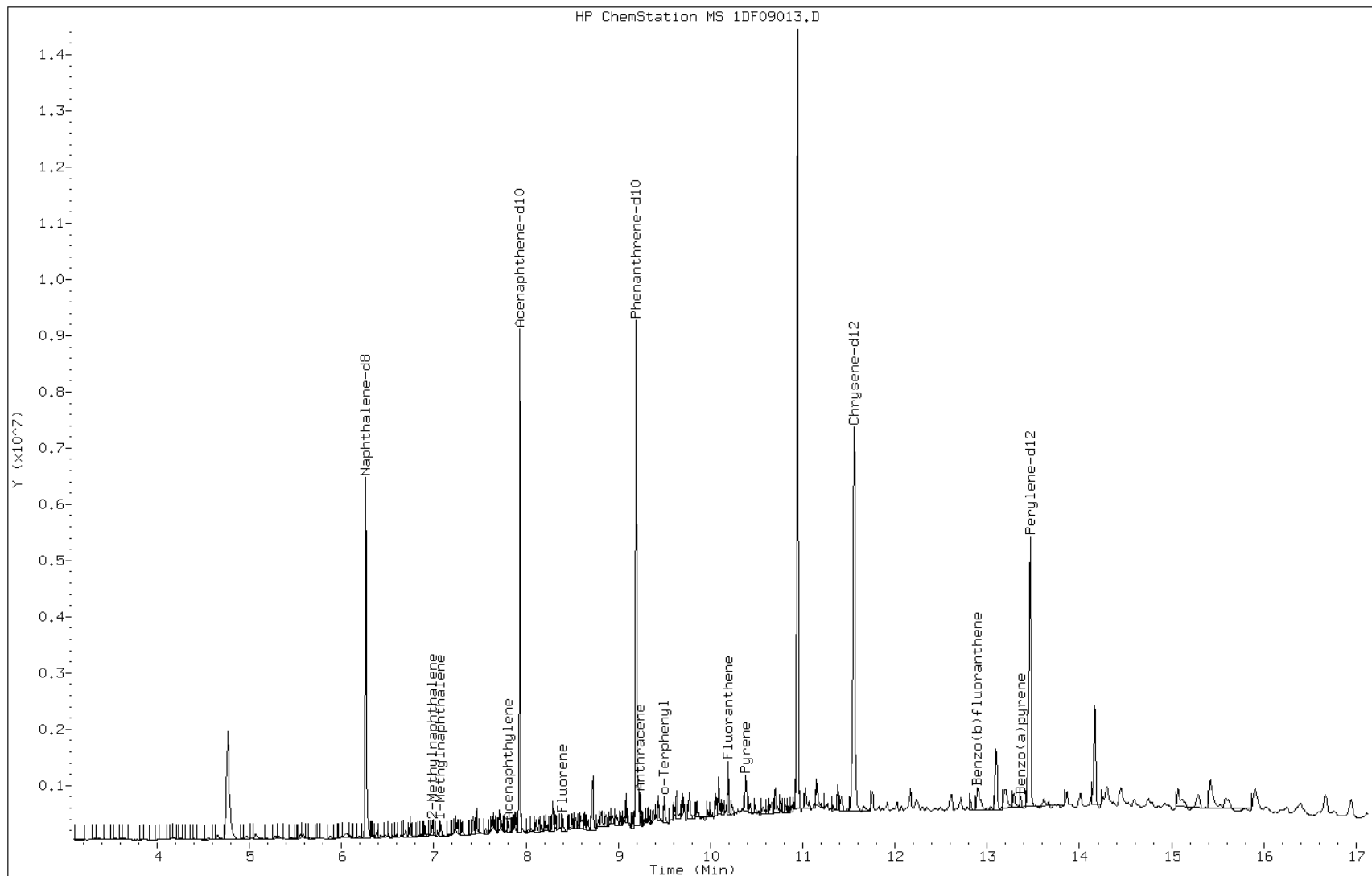
Date: 09-JUN-2013 13:50

Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

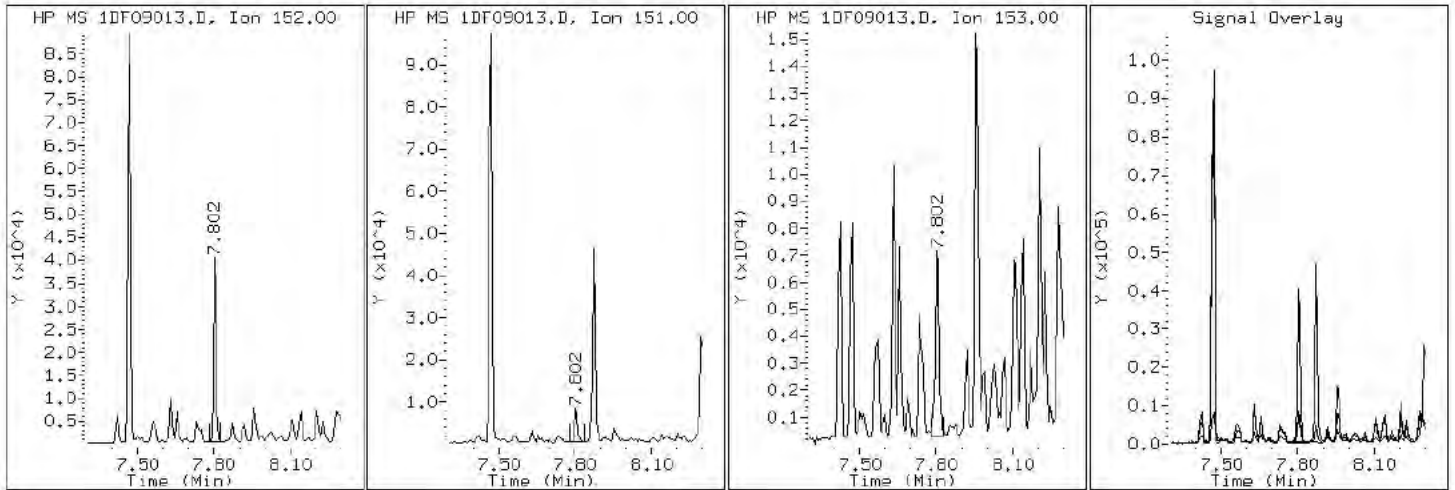
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

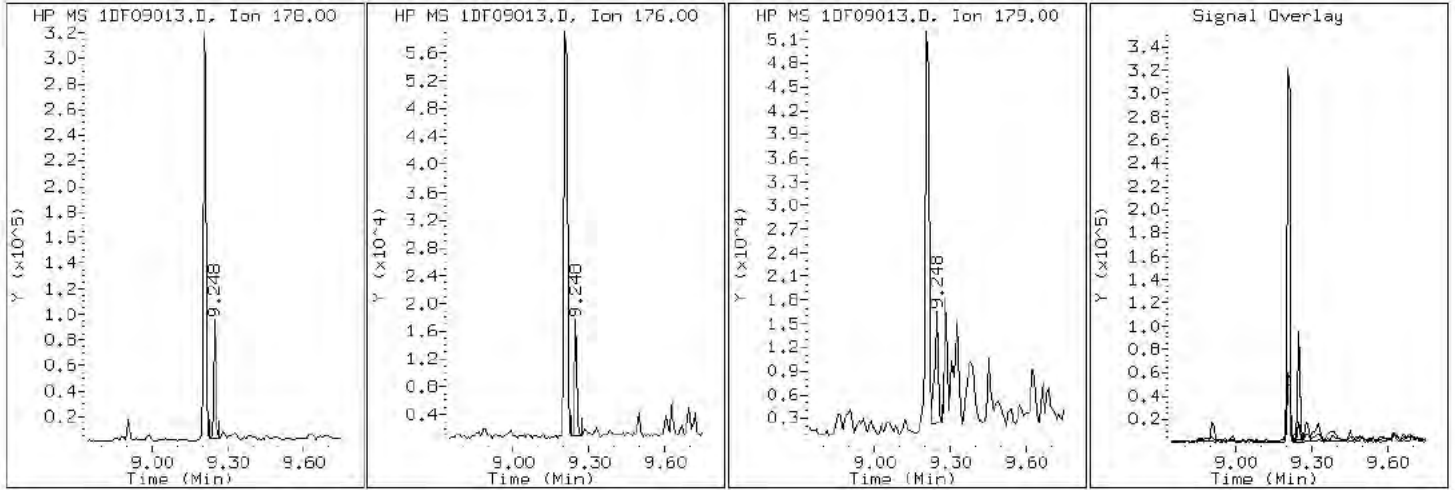
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

13 Anthracene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

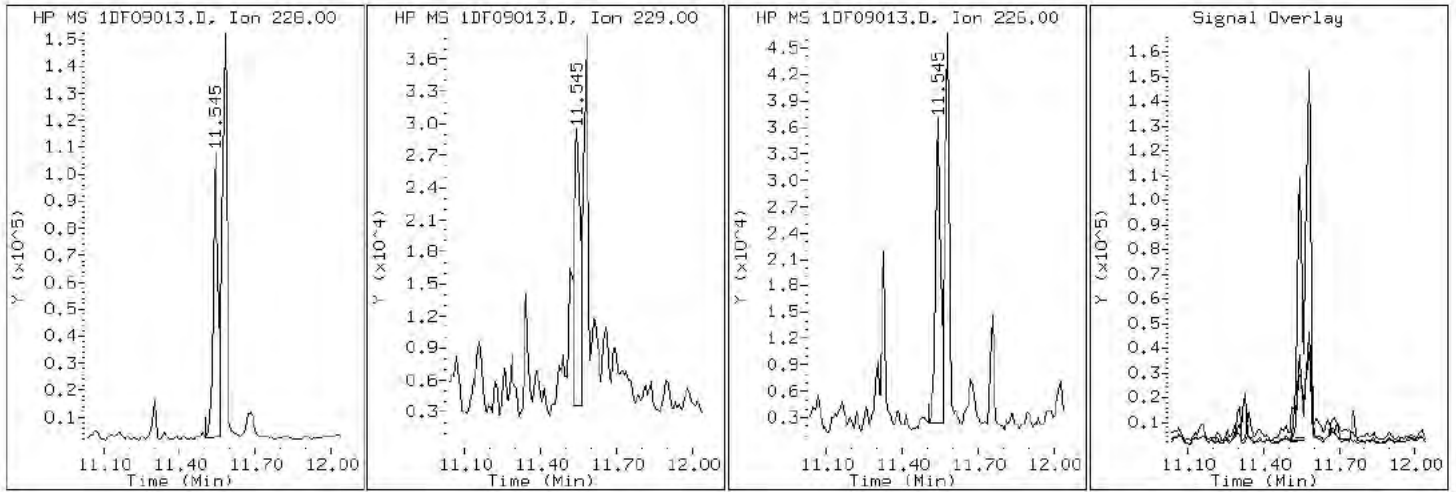
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

18 Benzo(a)anthracene





Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

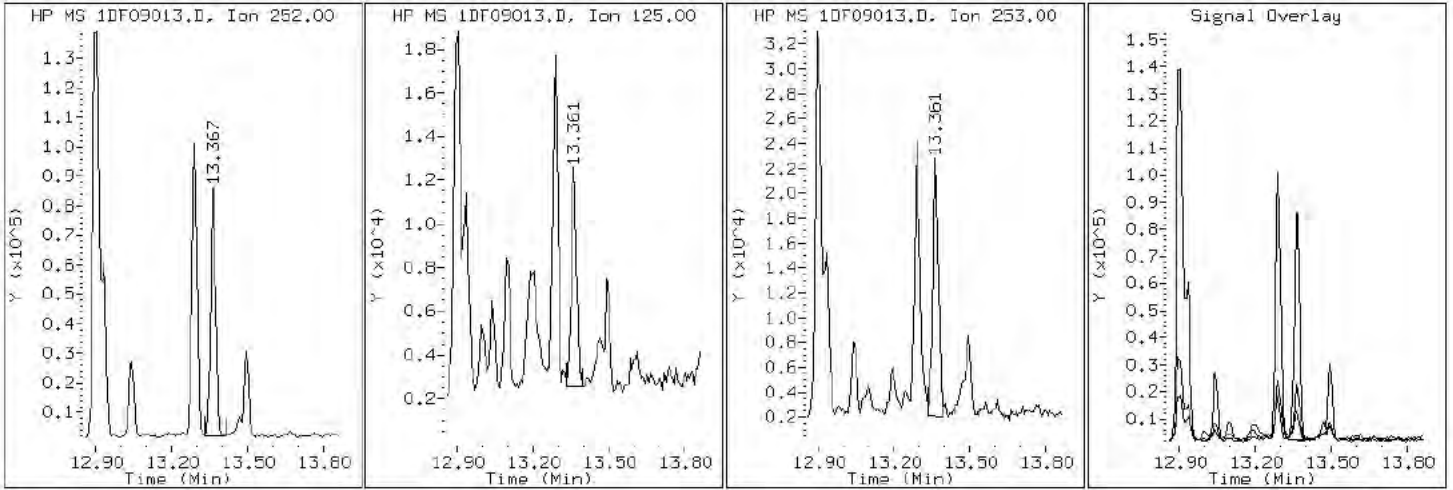
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

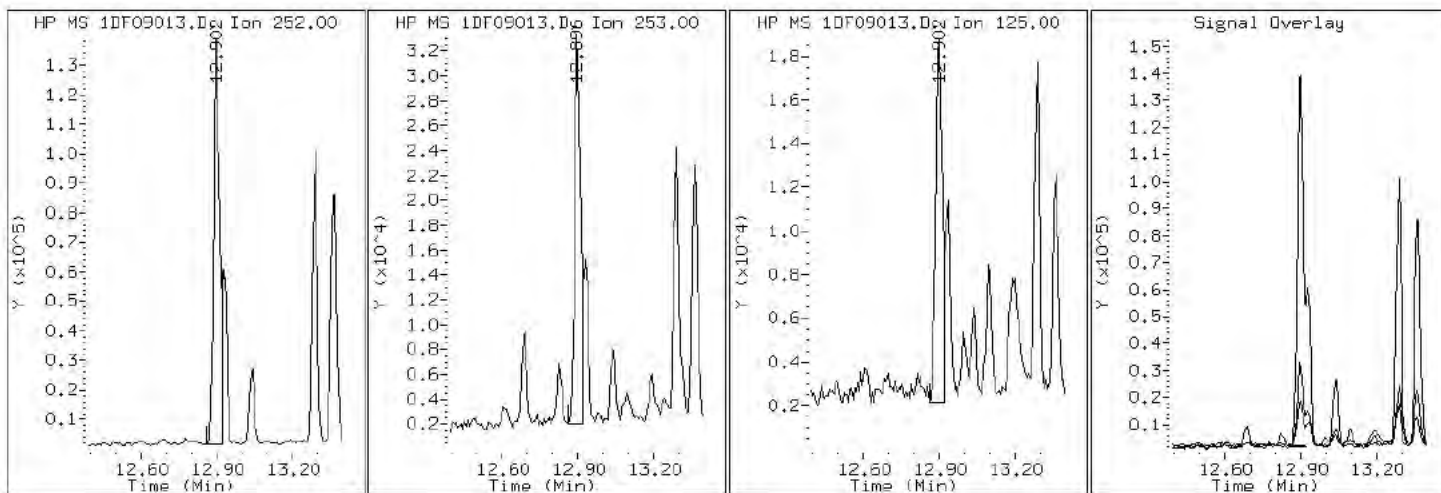
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

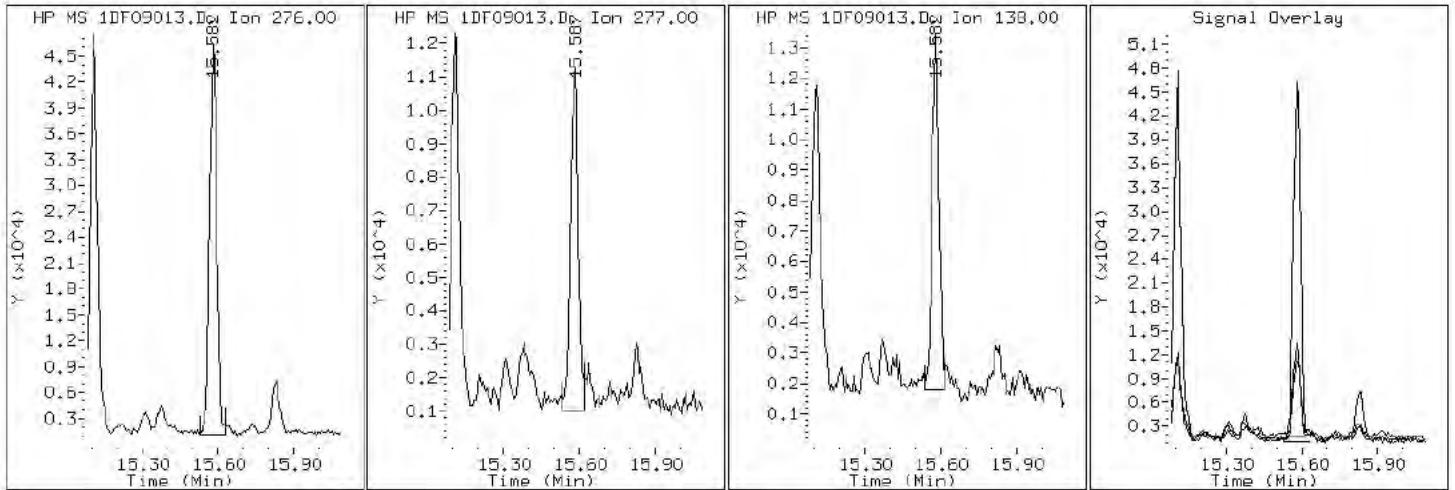
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

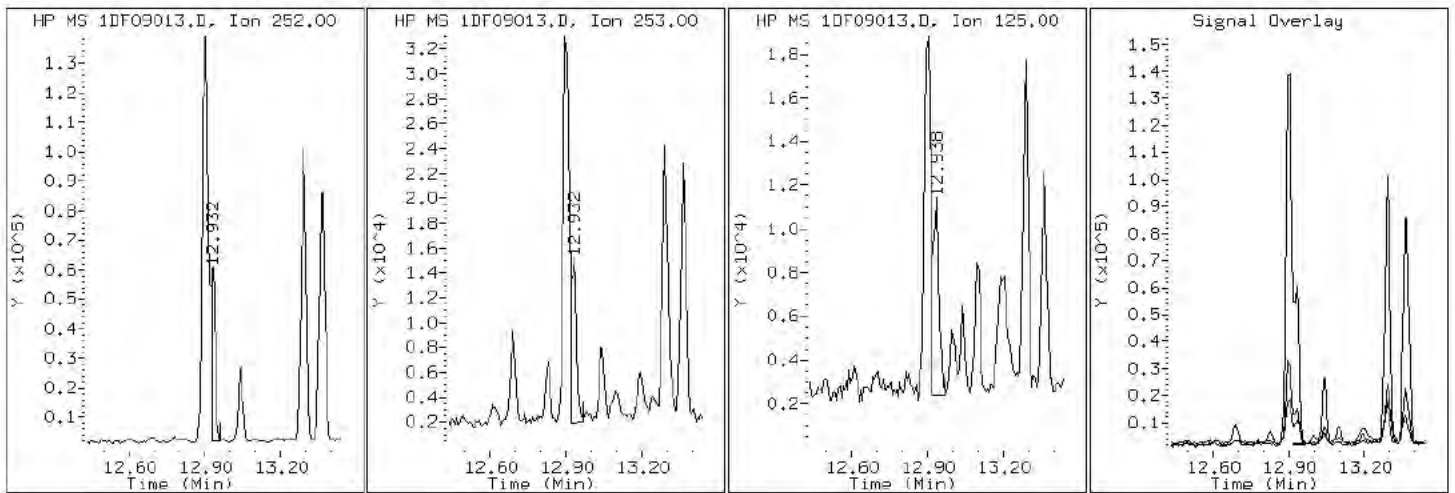
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

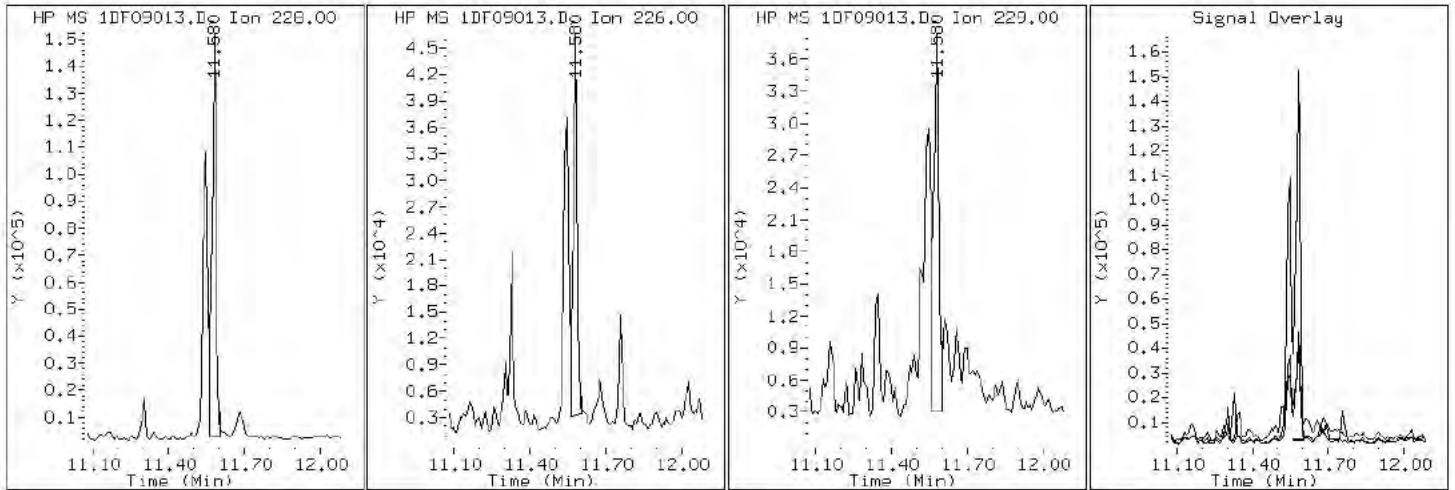
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

20 Chrysene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

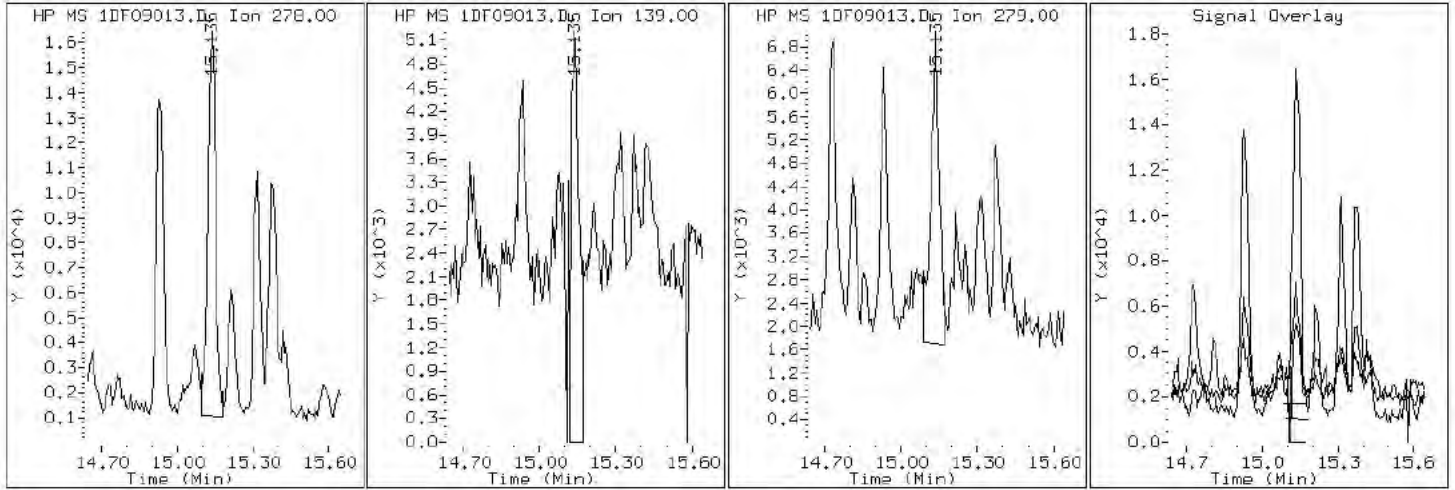
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

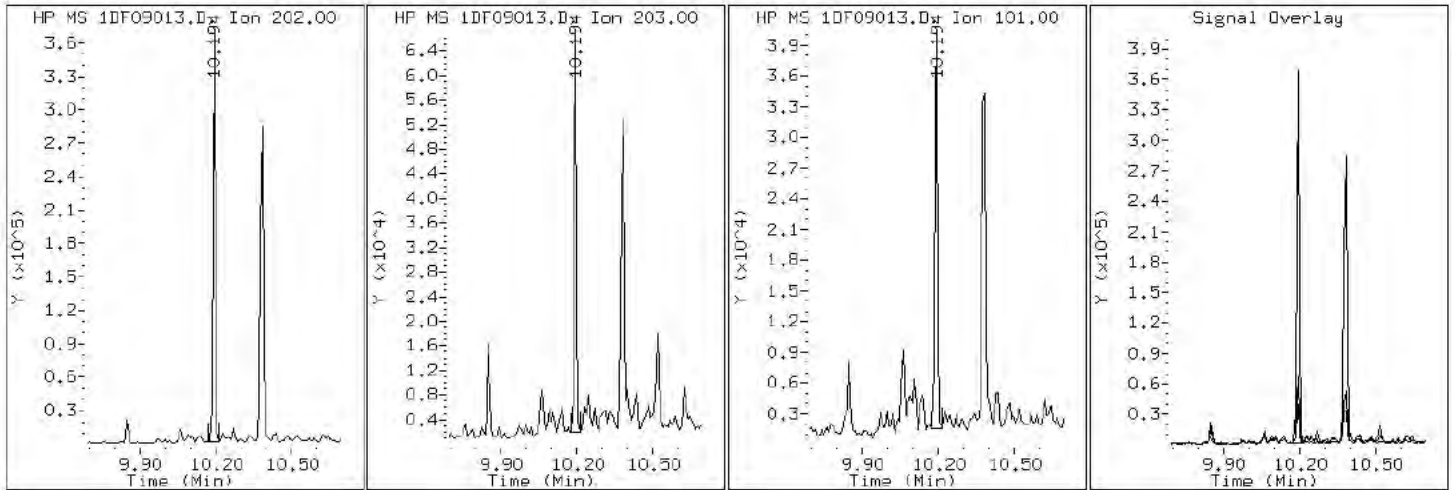
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

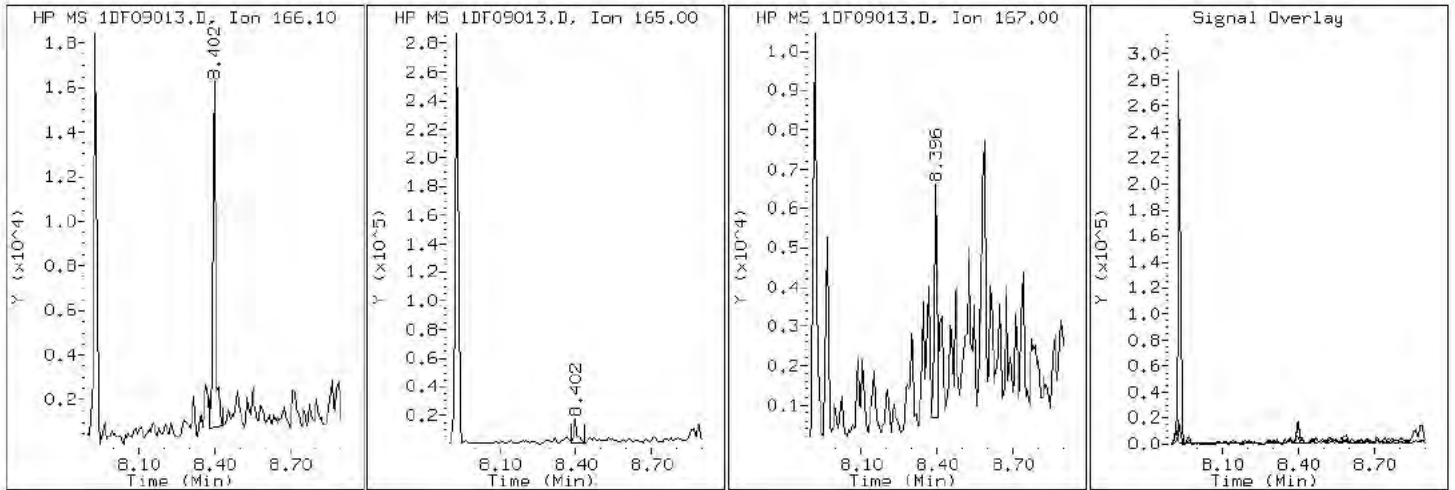
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

10 Fluorene





Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

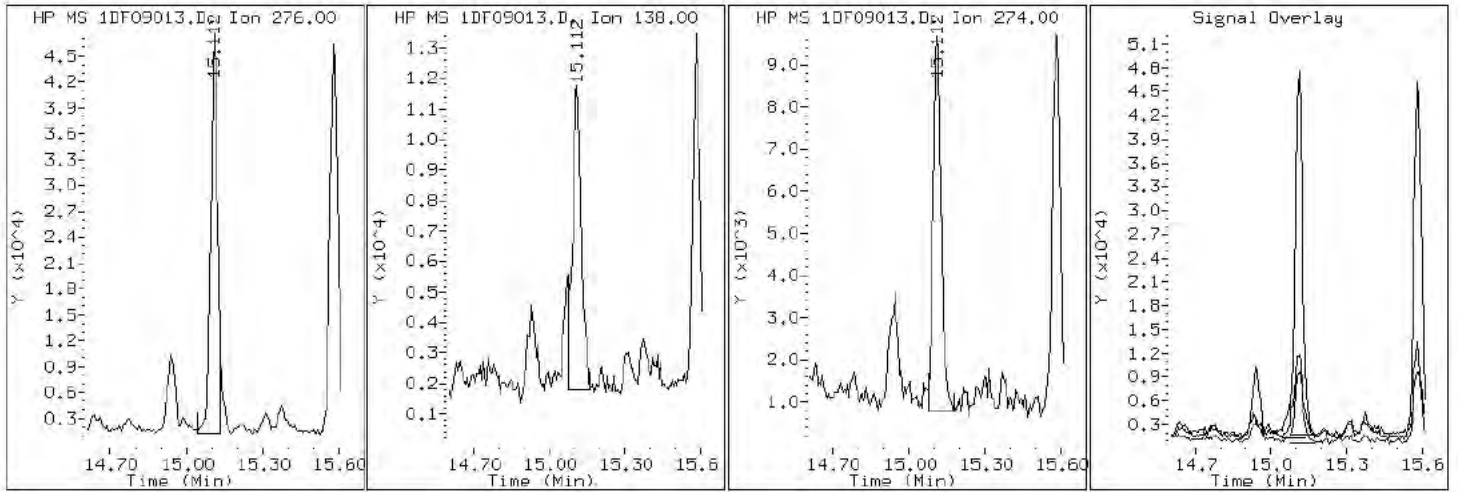
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

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



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

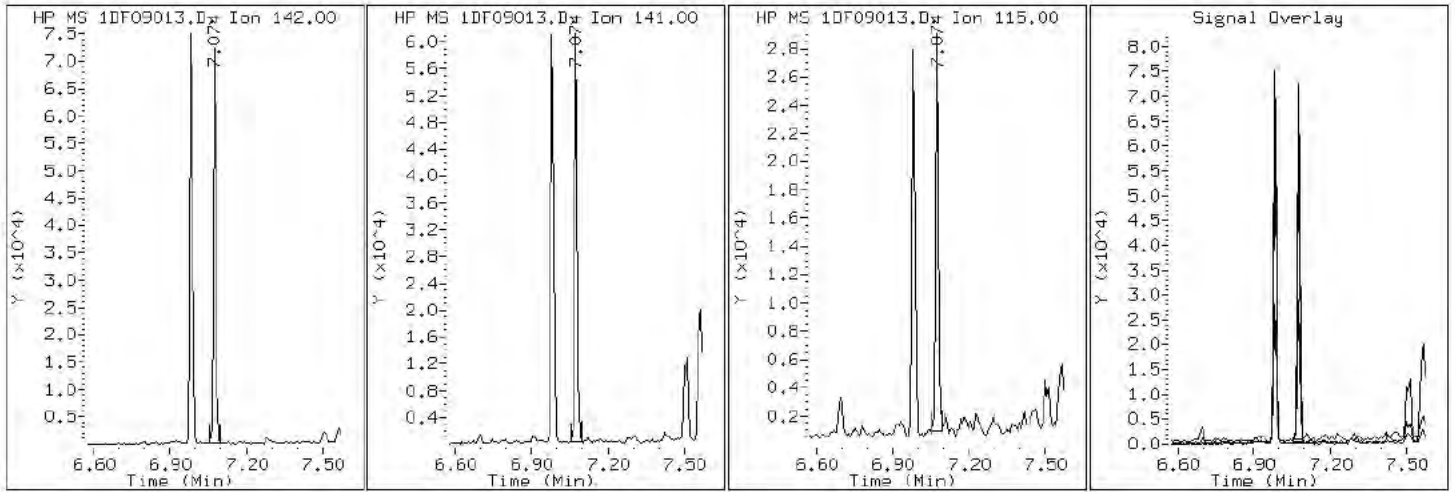
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

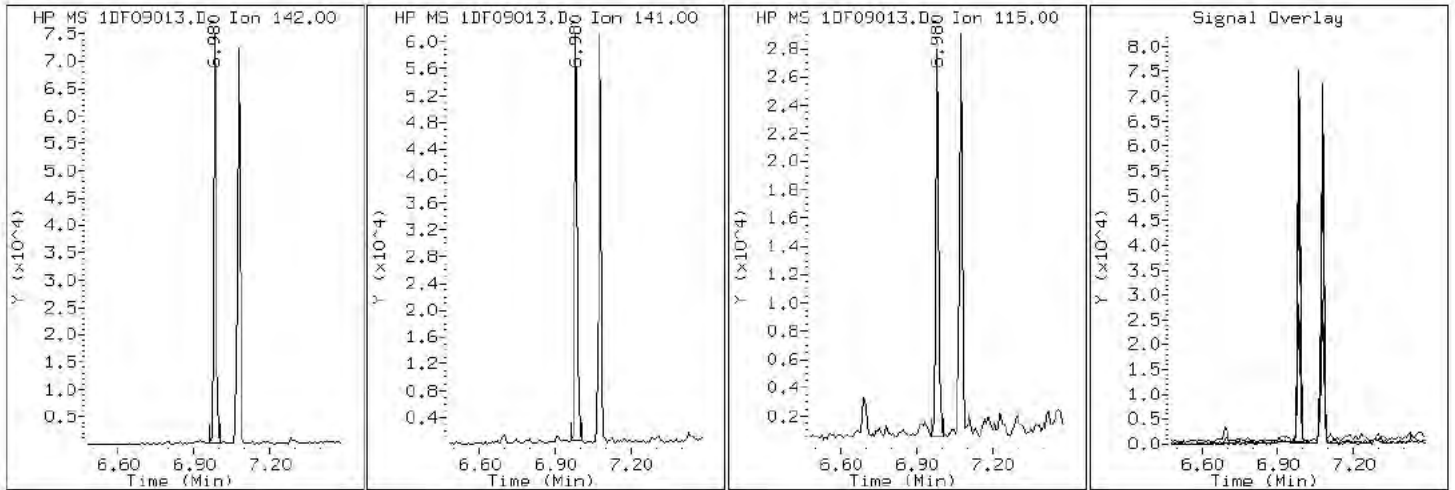
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

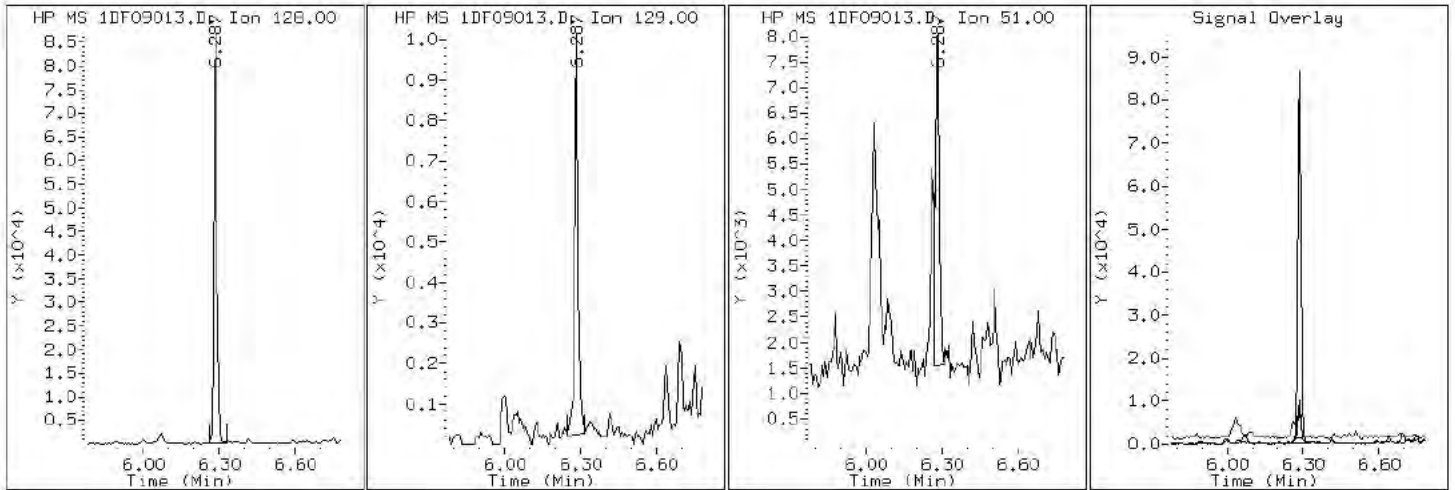
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

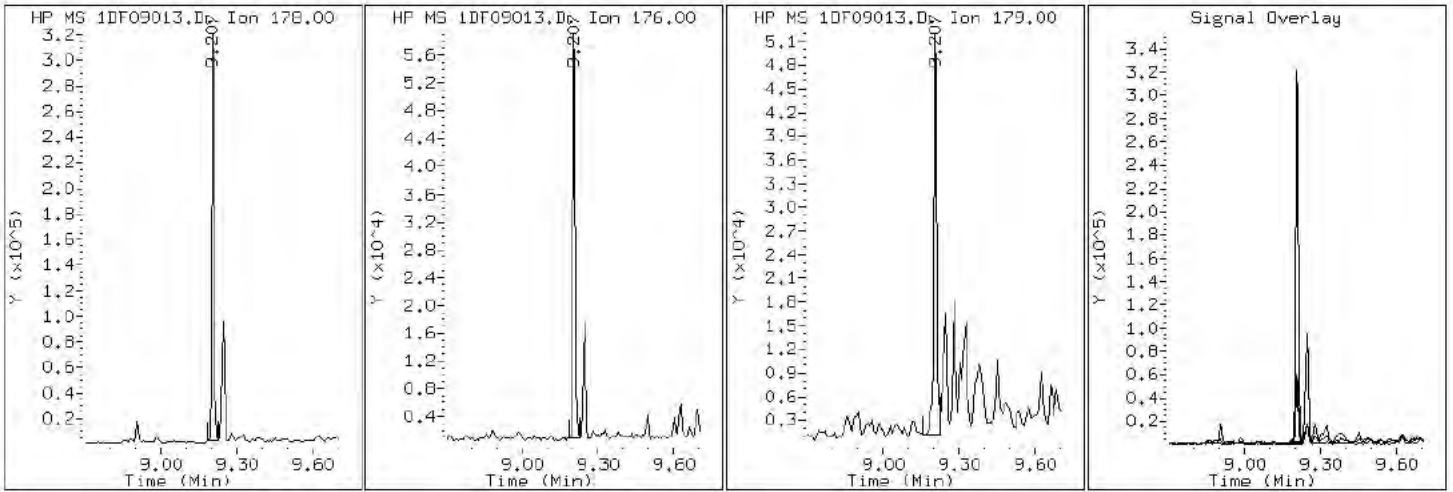
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09013.D

Date: 09-JUN-2013 13:50

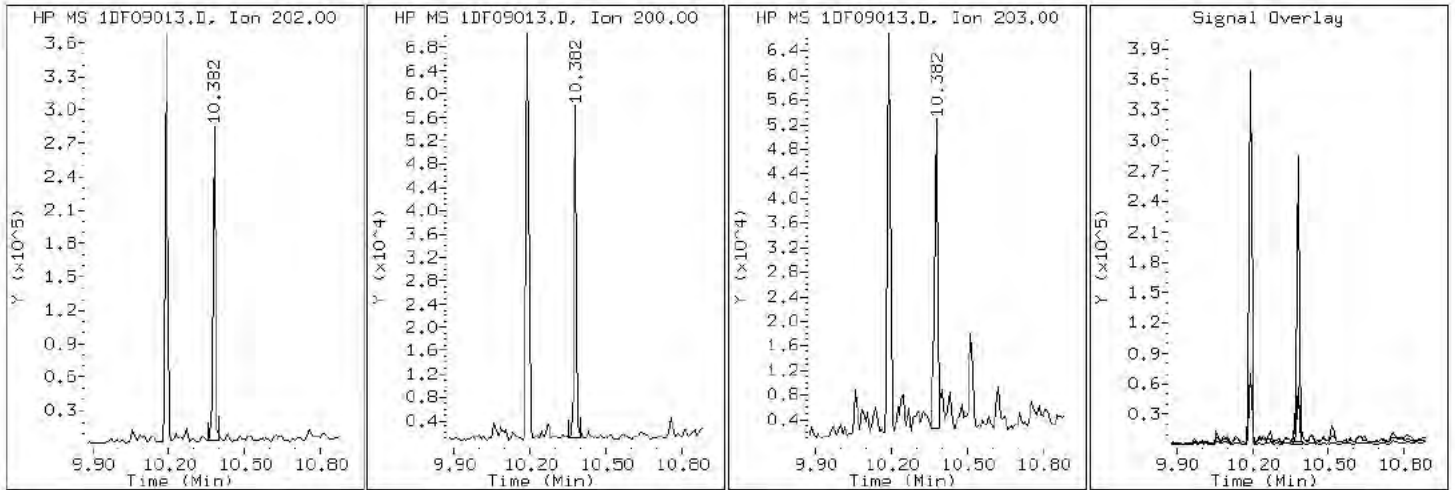
Client ID: CV1248B-CS

Instrument: BSMSD.i

Sample Info: 680-90852-a-18-a

Operator: SCC

17 Pyrene

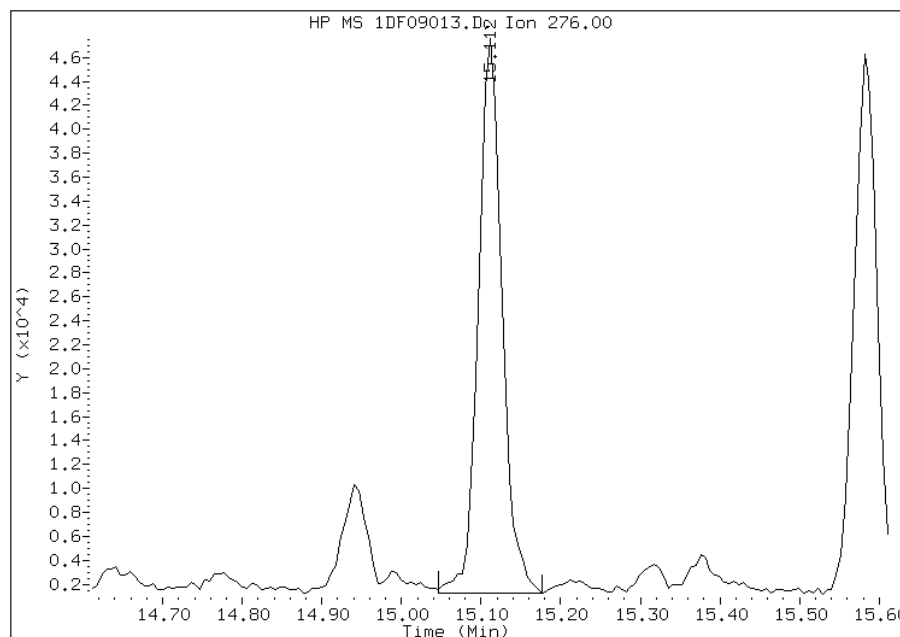


# Manual Integration Report

Data File: 1DF09013.D  
Inj. Date and Time: 09-JUN-2013 13:50  
Instrument ID: BSMSD.i  
Client ID: CV1248B-CS  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

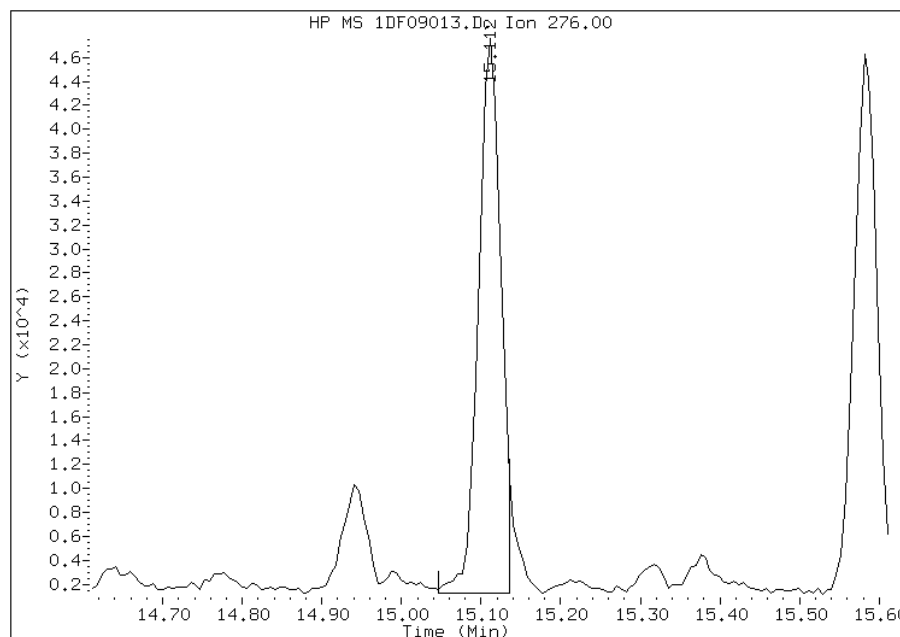
## Processing Integration Results

RT: 15.11  
Response: 95241  
Amount: 1  
Conc: 465



## Manual Integration Results

RT: 15.11  
Response: 89961  
Amount: 1  
Conc: 442



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:00  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: CV1248B-CSD Lab Sample ID: 680-90852-19  
 Matrix: Solid Lab File ID: 1DF09014.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 08:45  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.36(g) Date Analyzed: 06/09/2013 14:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	110	J	200	25
120-12-7	Anthracene	180		42	21
56-55-3	Benzo[a]anthracene	380		40	19
50-32-8	Benzo[a]pyrene	390		52	26
205-99-2	Benzo[b]fluoranthene	670		61	30
191-24-2	Benzo[g,h,i]perylene	310		100	22
207-08-9	Benzo[k]fluoranthene	240		40	18
218-01-9	Chrysene	500		45	22
53-70-3	Dibenz(a,h)anthracene	120		100	20
206-44-0	Fluoranthene	570		100	20
86-73-7	Fluorene	47	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	300		100	35
90-12-0	1-Methylnaphthalene	360		200	22
91-57-6	2-Methylnaphthalene	290		200	35
91-20-3	Naphthalene	210		200	22
85-01-8	Phenanthrene	600		40	19
129-00-0	Pyrene	490		100	18

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



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09014.D  
 Lab Smp Id: 680-90852-A-19-A Client Smp ID: CV1248B-CSD  
 Inj Date : 09-JUN-2013 14:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-19-a  
 Misc Info : 680-90852-A-19-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 13  
 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	15.360	Weight Extracted
M	21.670	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.261	6.263	(1.000)	3201040	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.932	(1.000)	1842311	40.0000	
* 11 Phenanthrene-d10	188		9.193	9.189	(1.000)	3015582	40.0000	
\$ 15 o-Terphenyl	230		9.498	9.500	(1.033)	87627	1.98345	660
* 19 Chrysene-d12	240		11.554	11.557	(1.000)	2948855	40.0000	
* 24 Perylene-d12	264		13.470	13.460	(1.000)	3073993	40.0000	
2 Naphthalene	128		6.284	6.281	(1.004)	50629	0.64137	210
3 2-Methylnaphthalene	142		6.983	6.980	(1.115)	43508	0.86563	290
4 1-Methylnaphthalene	142		7.077	7.074	(1.130)	55928	1.08086	360
6 Acenaphthylene	152		7.806	7.802	(0.984)	24390	0.31930	110
10 Fluorene	166		8.399	8.402	(1.058)	7706	0.14055	47
12 Phenanthrene	178		9.210	9.207	(1.002)	147248	1.80292	600
13 Anthracene	178		9.251	9.248	(1.006)	43210	0.54528	180
16 Fluoranthene	202		10.191	10.194	(1.109)	142165	1.70149	560

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.379	10.382	(0.898)	127591	1.47785	490
18 Benzo(a)anthracene	228	11.543	11.539	(0.999)	100029	1.14298	380
20 Chrysene	228	11.578	11.580	(1.002)	117548	1.49161	500
21 Benzo(b)fluoranthene	252	12.894	12.896	(0.957)	155965	2.02525	670
22 Benzo(k)fluoranthene	252	12.929	12.938	(0.960)	57516	0.71320	240
23 Benzo(a)pyrene	252	13.364	13.361	(0.992)	82279	1.17768	390
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.111	(1.121)	59703	0.89524	300(M)
26 Dibenzo(a,h)anthracene	278	15.133	15.147	(1.123)	20993	0.35771	120
27 Benzo(g,h,i)perylene	276	15.579	15.587	(1.157)	64039	0.91747	300

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09014.D

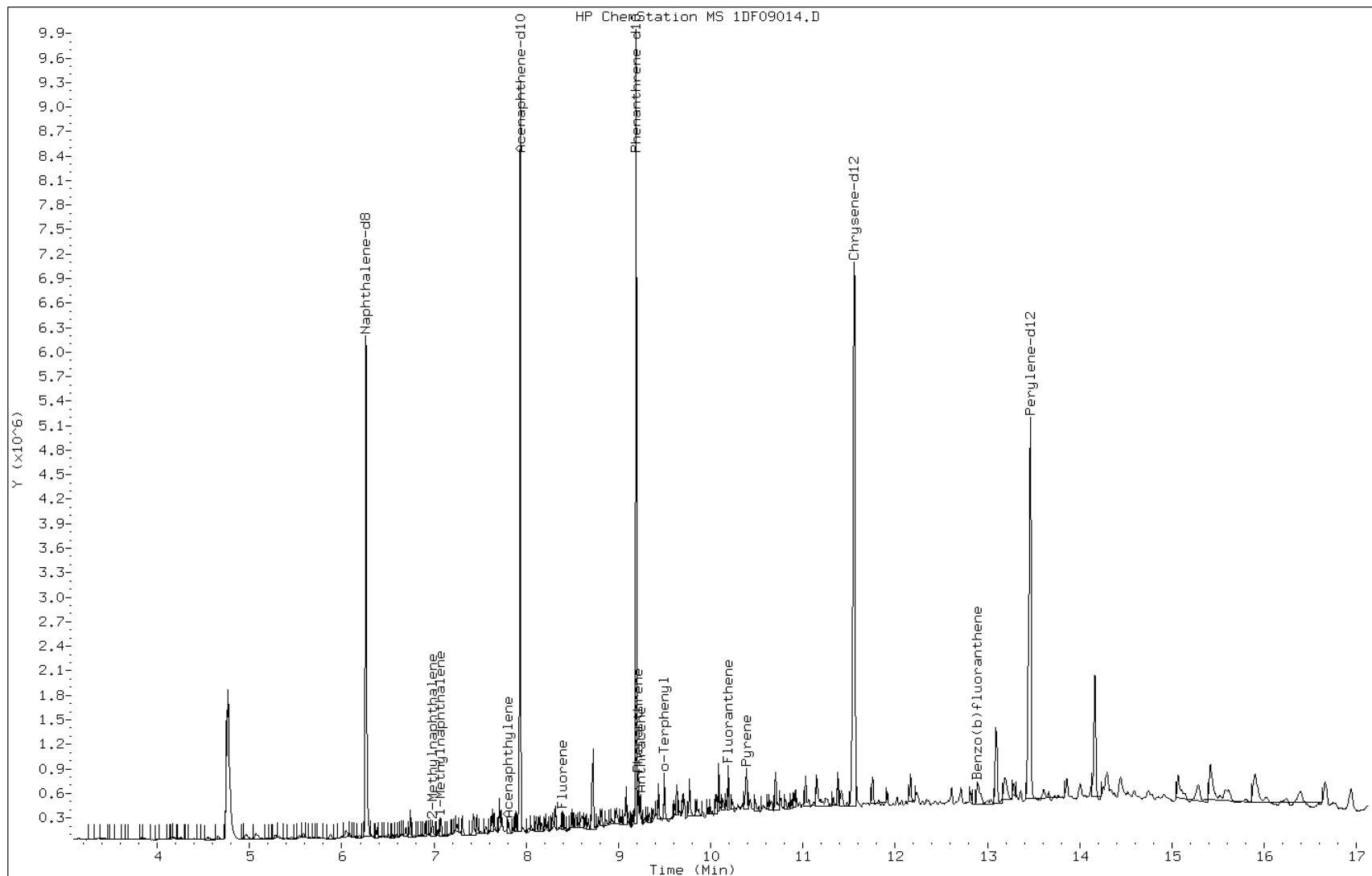
Date: 09-JUN-2013 14:12

Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

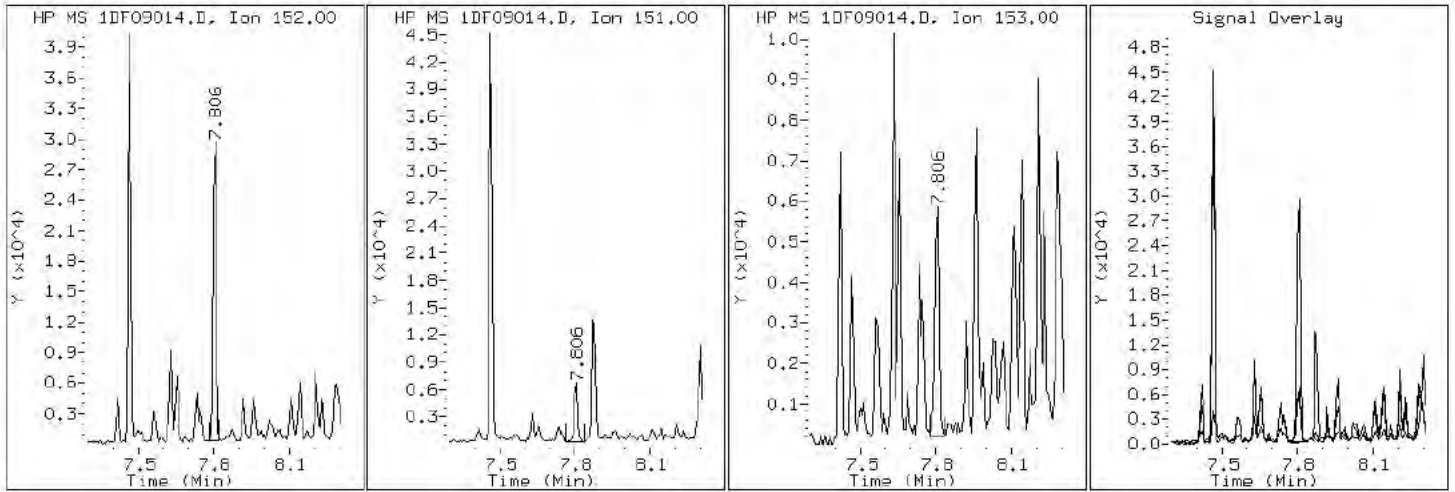
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

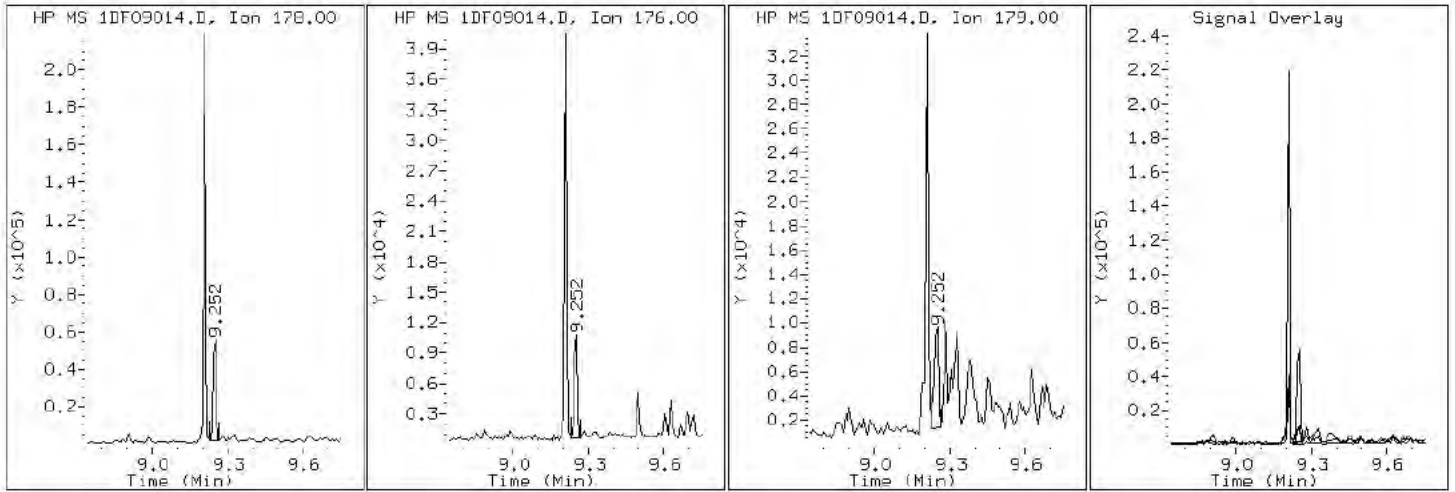
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

13 Anthracene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

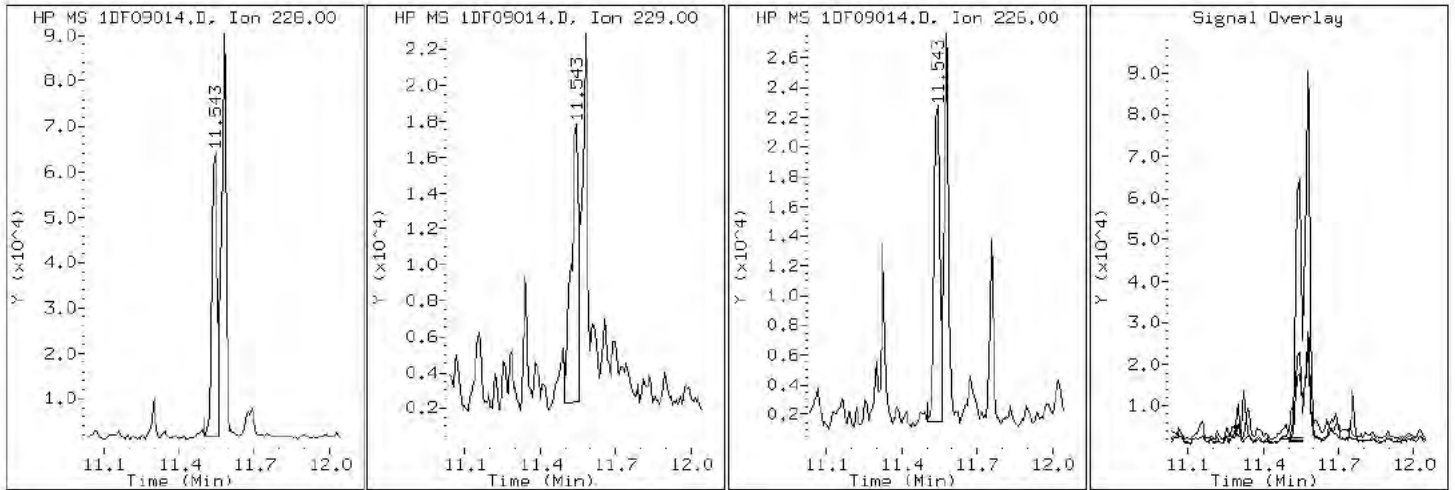
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

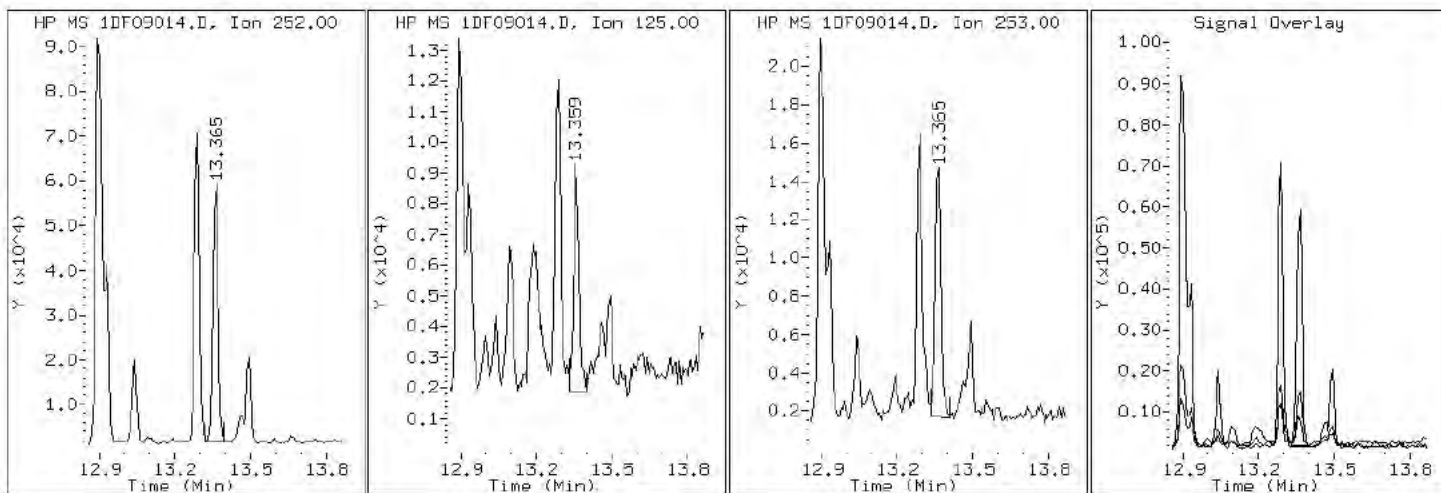
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

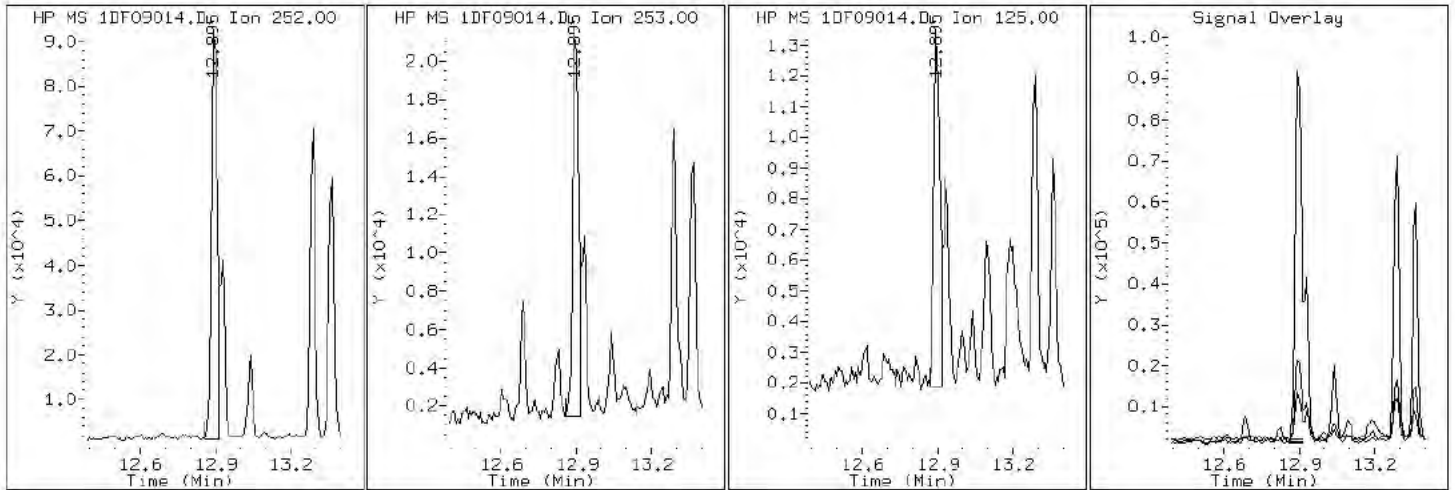
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

21 Benzo(b)fluoranthene





Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

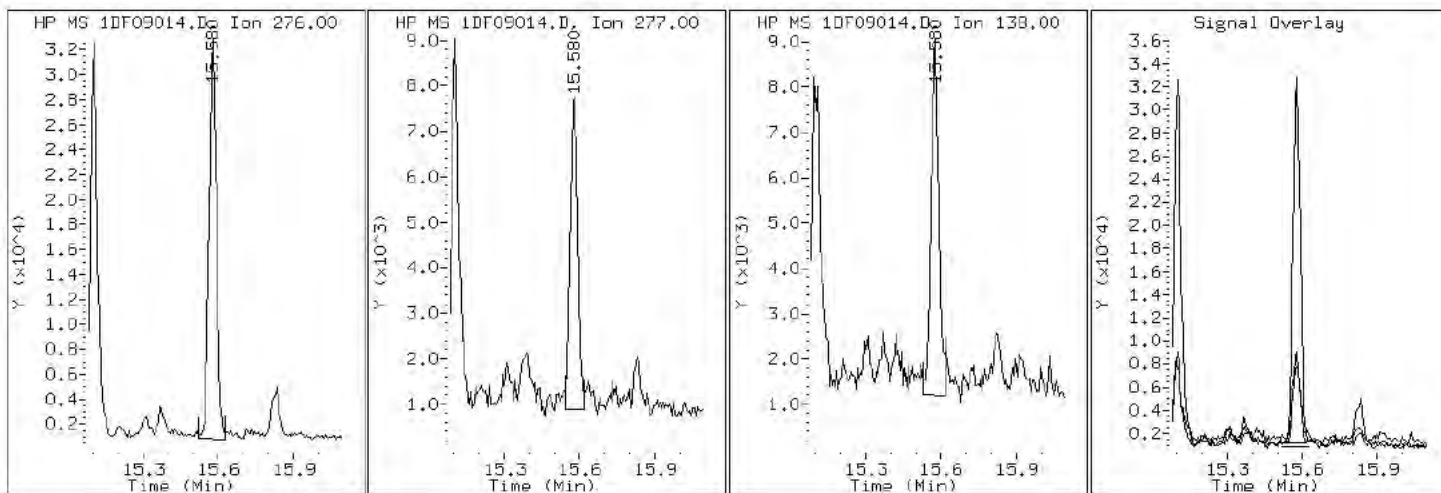
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

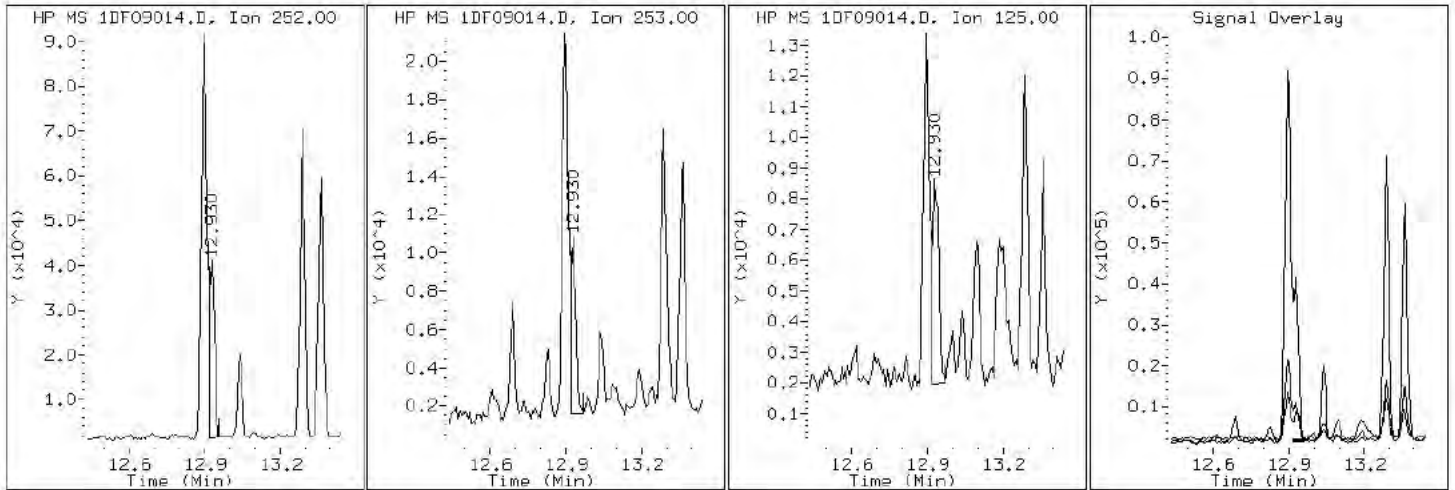
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

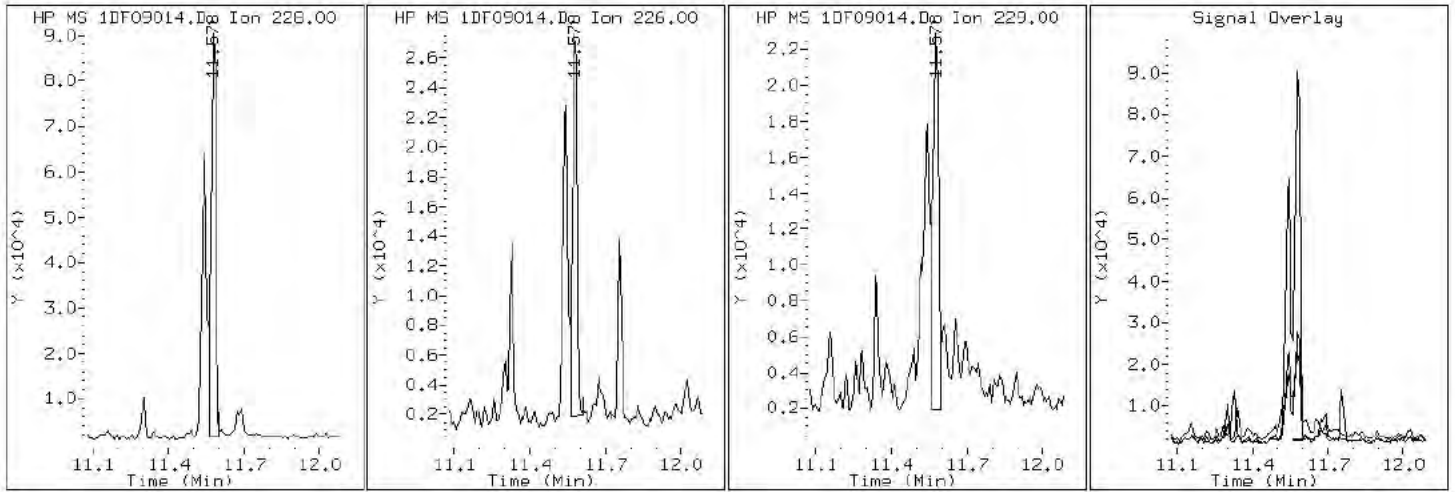
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

20 Chrysene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

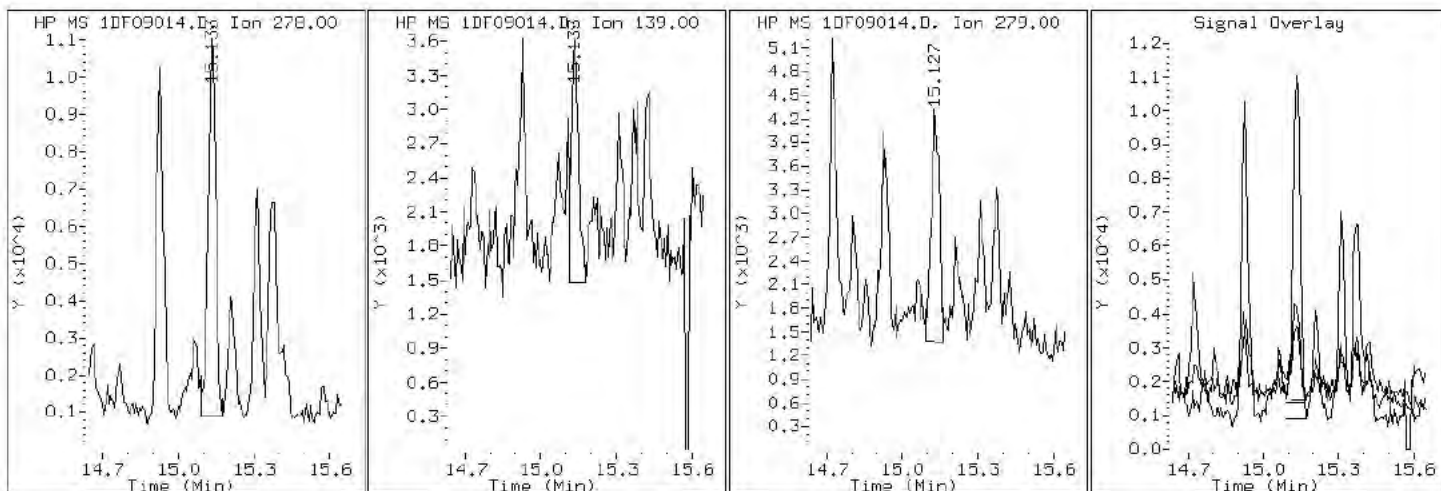
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

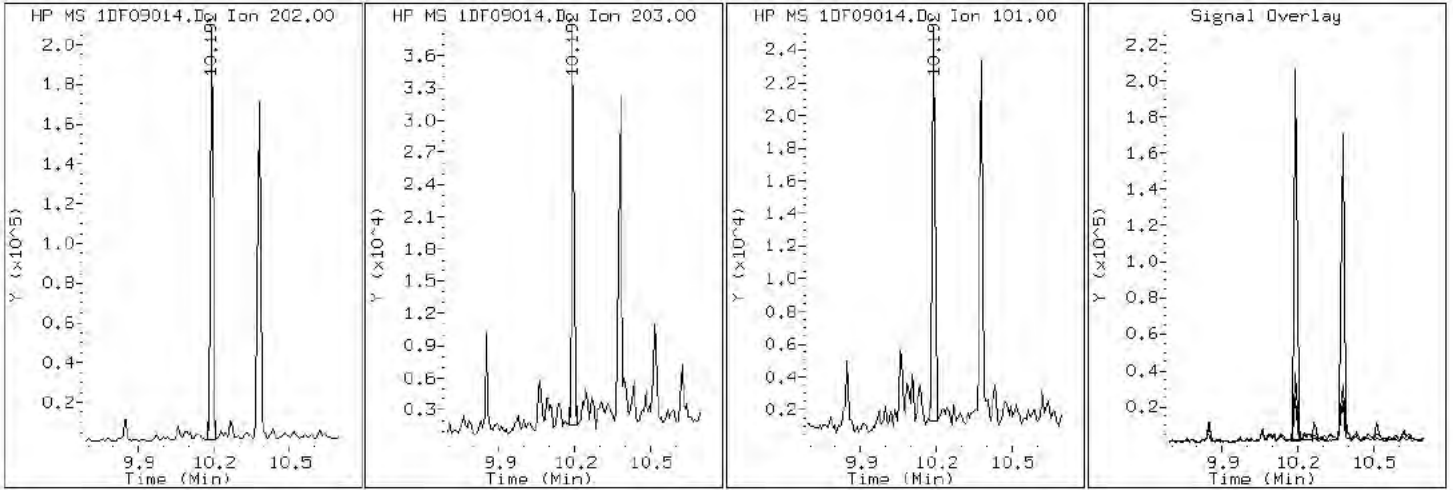
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

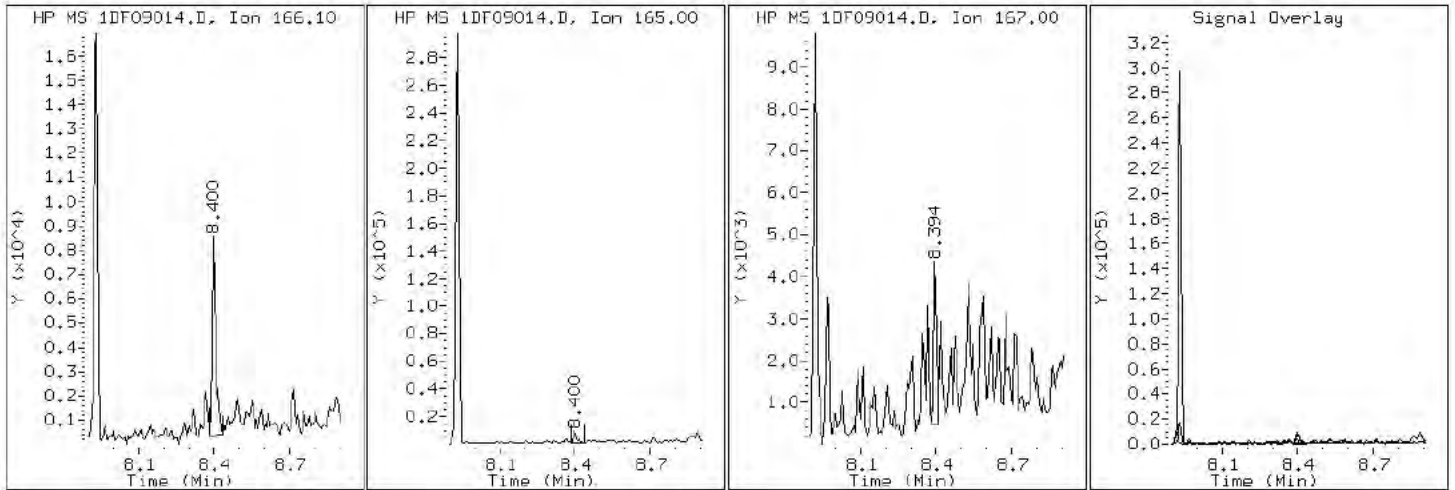
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

10 Fluorene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

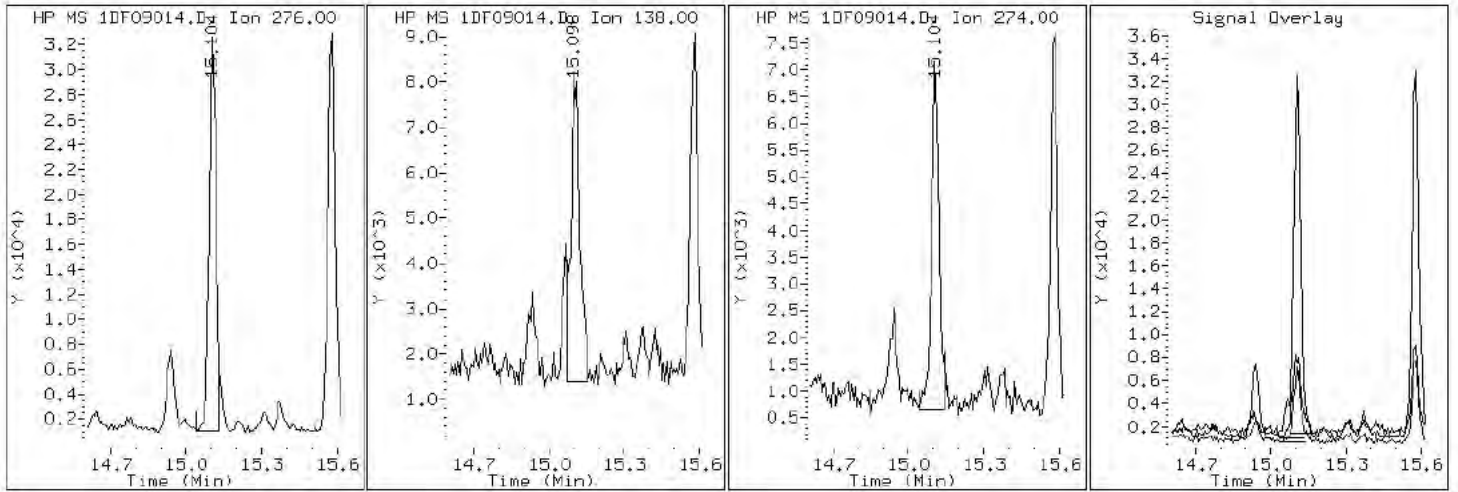
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

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



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

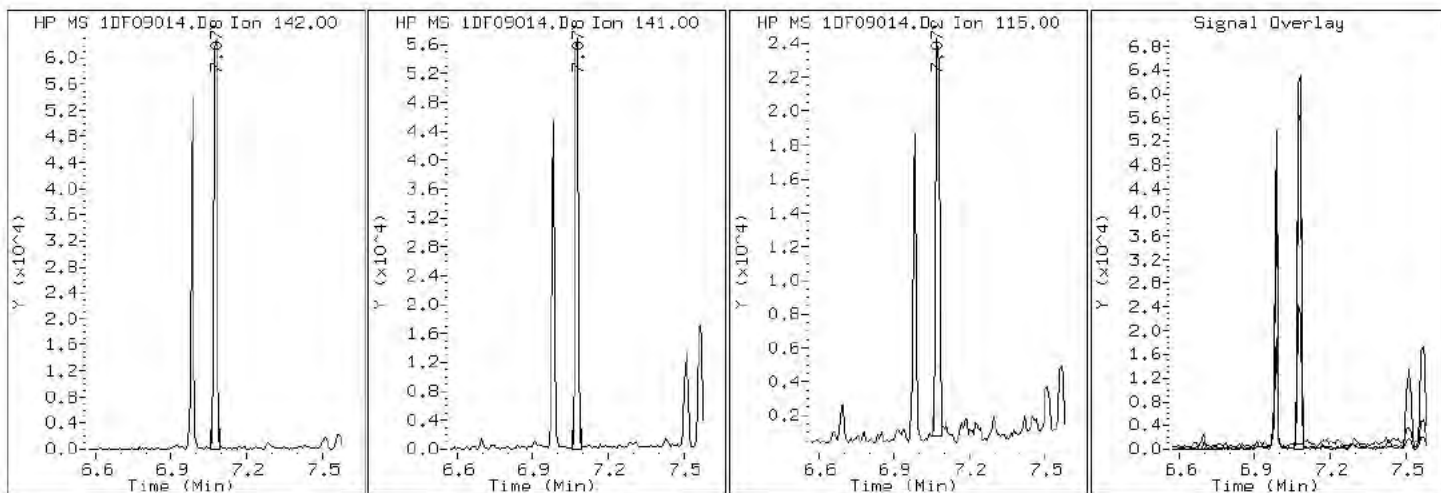
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

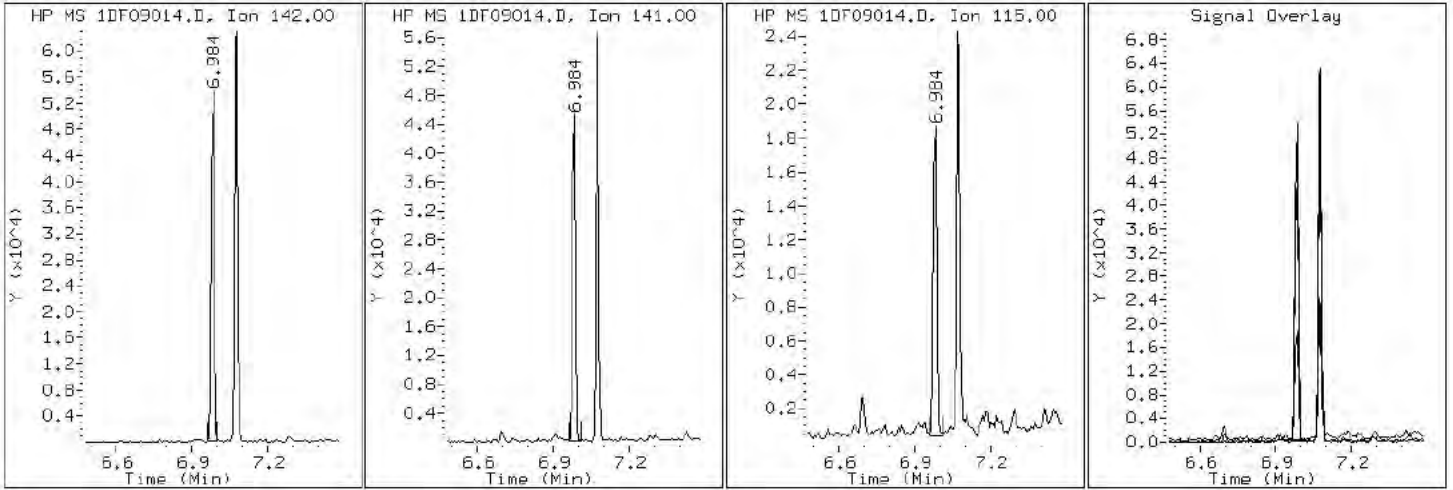
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

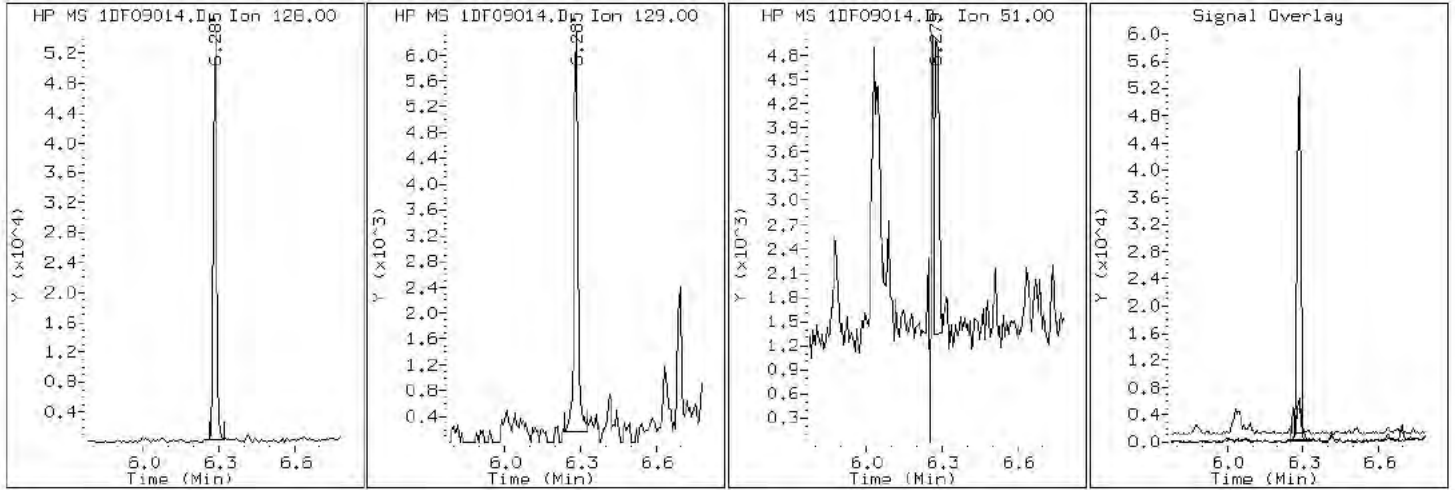
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

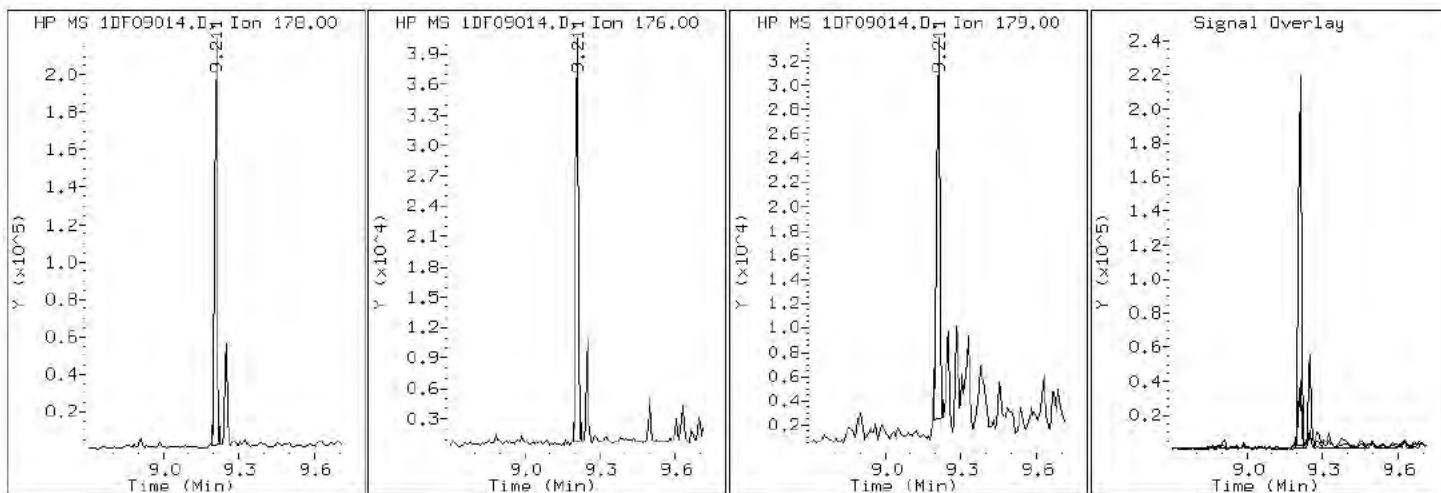
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09014.D

Date: 09-JUN-2013 14:12

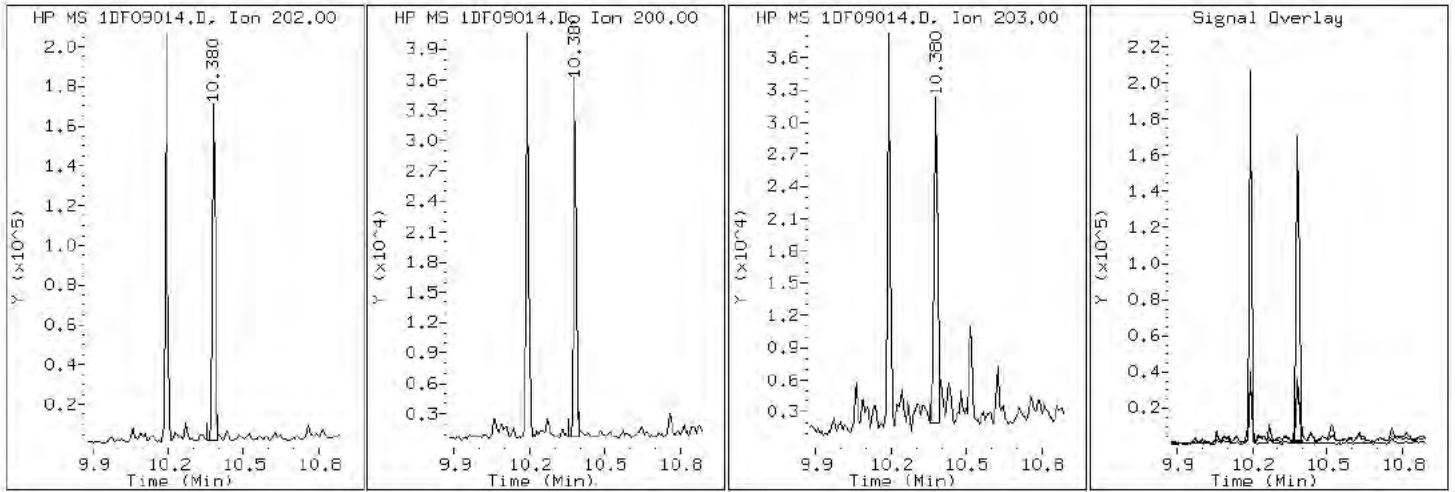
Client ID: CV1248B-CSD

Instrument: BSMSD.i

Sample Info: 680-90852-a-19-a

Operator: SCC

17 Pyrene

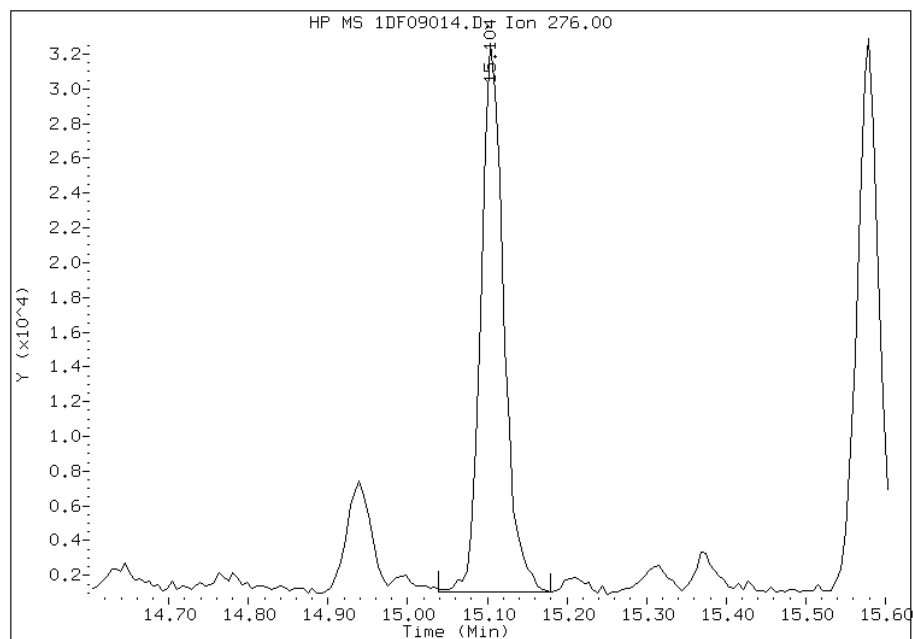


# Manual Integration Report

Data File: 1DF09014.D  
Inj. Date and Time: 09-JUN-2013 14:12  
Instrument ID: BSMSD.i  
Client ID: CV1248B-CSD  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

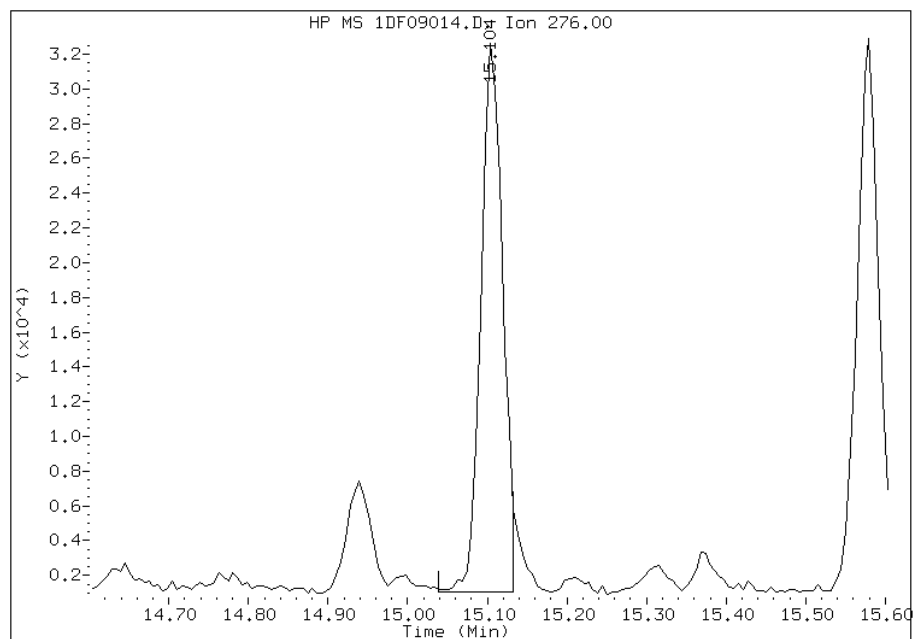
## Processing Integration Results

RT: 15.10  
Response: 62645  
Amount: 1  
Conc: 310



## Manual Integration Results

RT: 15.10  
Response: 59703  
Amount: 1  
Conc: 298



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:01  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0098A-CS-SP Lab Sample ID: 680-90852-20  
 Matrix: Solid Lab File ID: 1DF09015.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 09:01  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.04(g) Date Analyzed: 06/09/2013 14:35  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	40	J	50	6.2
120-12-7	Anthracene	55		10	5.2
56-55-3	Benzo[a]anthracene	110		9.9	4.8
50-32-8	Benzo[a]pyrene	120		13	6.4
205-99-2	Benzo[b]fluoranthene	290		15	7.6
191-24-2	Benzo[g,h,i]perylene	82		25	5.4
207-08-9	Benzo[k]fluoranthene	66		9.9	4.5
218-01-9	Chrysene	170		11	5.6
53-70-3	Dibenz(a,h)anthracene	33		25	5.1
206-44-0	Fluoranthene	180		25	5.0
86-73-7	Fluorene	13	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	83		25	8.8
90-12-0	1-Methylnaphthalene	53		50	5.4
91-57-6	2-Methylnaphthalene	100		50	8.8
91-20-3	Naphthalene	96		50	5.4
85-01-8	Phenanthrene	150		9.9	4.8
129-00-0	Pyrene	140		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09015.D  
 Lab Smp Id: 680-90852-A-20-A Client Smp ID: FM0098A-CS-SP  
 Inj Date : 09-JUN-2013 14:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-20-a  
 Misc Info : 680-90852-A-20-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 14  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	19.478	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.263	6.263	(1.000)	3368744	40.0000	
* 7 Acenaphthene-d10	164	7.931	7.932	(1.000)	1938513	40.0000	
* 11 Phenanthrene-d10	188	9.195	9.189	(1.000)	3108075	40.0000	
\$ 15 o-Terphenyl	230	9.500	9.500	(1.033)	325722	7.15336	590
* 19 Chrysene-d12	240	11.568	11.557	(1.000)	3571450	40.0000	
* 24 Perylene-d12	264	13.519	13.460	(1.000)	3509296	40.0000	(H)
2 Naphthalene	128	6.286	6.281	(1.004)	96414	1.16057	96
3 2-Methylnaphthalene	142	6.980	6.980	(1.114)	67001	1.26668	100
4 1-Methylnaphthalene	142	7.074	7.074	(1.129)	34995	0.64264	53
6 Acenaphthylene	152	7.802	7.802	(0.984)	38573	0.47992	40
10 Fluorene	166	8.401	8.402	(1.059)	9422	0.16332	13
12 Phenanthrene	178	9.212	9.207	(1.002)	153120	1.81903	150
13 Anthracene	178	9.247	9.248	(1.006)	54027	0.66149	55
16 Fluoranthene	202	10.193	10.194	(1.109)	187888	2.18180	180

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.381	10.382	(0.897)	177908	1.70144	140
18 Benzo(a)anthracene	228	11.557	11.539	(0.999)	141862	1.33841	110
20 Chrysene	228	11.592	11.580	(1.002)	201046	2.10642	170
21 Benzo(b)fluoranthene	252	12.937	12.896	(0.957)	303783	3.45539	280(H)
22 Benzo(k)fluoranthene	252	12.967	12.938	(0.959)	73794	0.80154	66(QMH)
23 Benzo(a)pyrene	252	13.413	13.361	(0.992)	122963	1.51125	120(H)
25 Indeno(1,2,3-cd)pyrene	276	15.211	15.111	(1.125)	78515	1.00879	83(MH)
26 Dibenzo(a,h)anthracene	278	15.240	15.147	(1.127)	27801	0.40344	33(H)
27 Benzo(g,h,i)perylene	276	15.699	15.587	(1.161)	78878	0.98989	82(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: 1DF09015.D

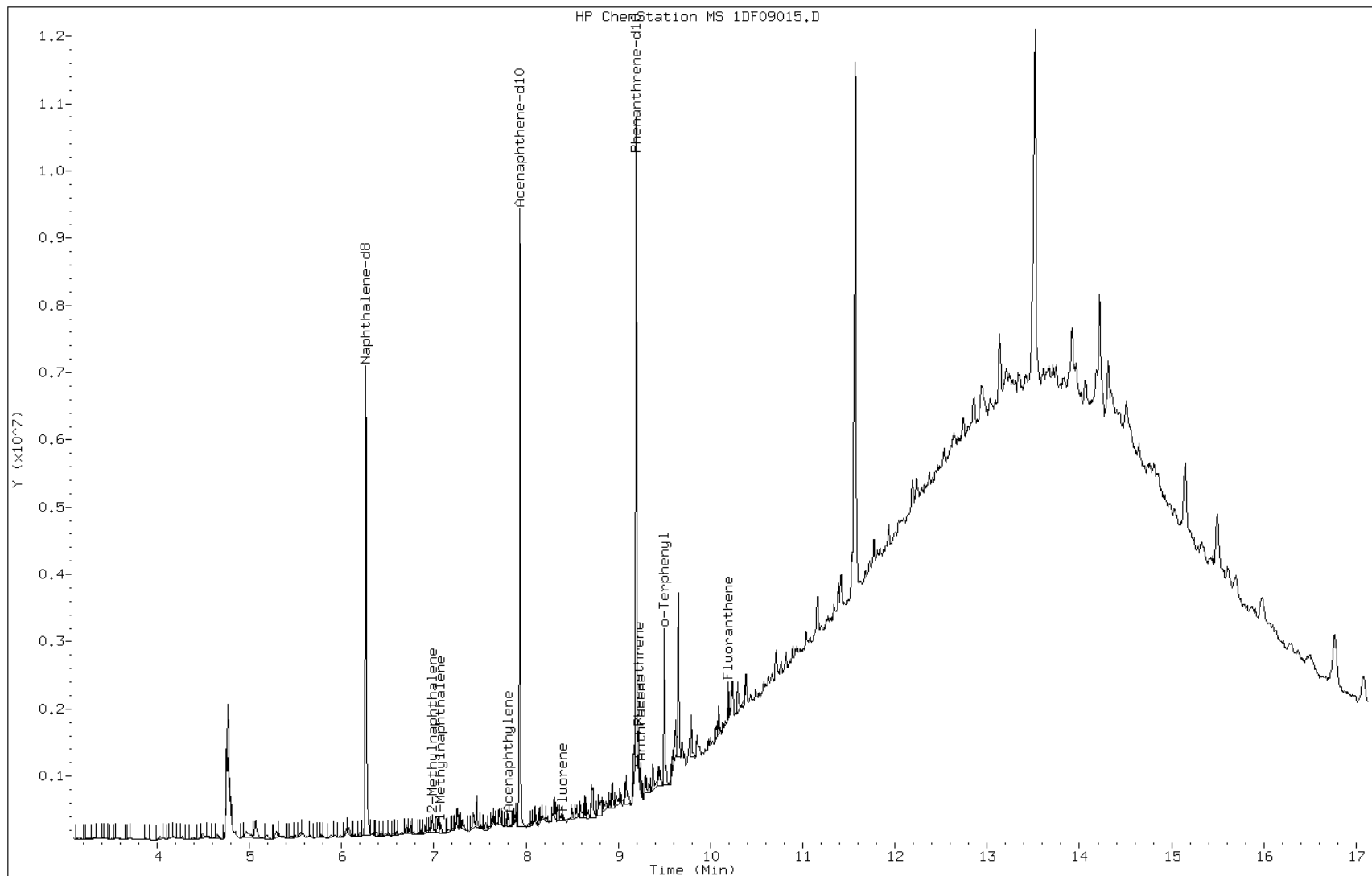
Date: 09-JUN-2013 14:35

Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

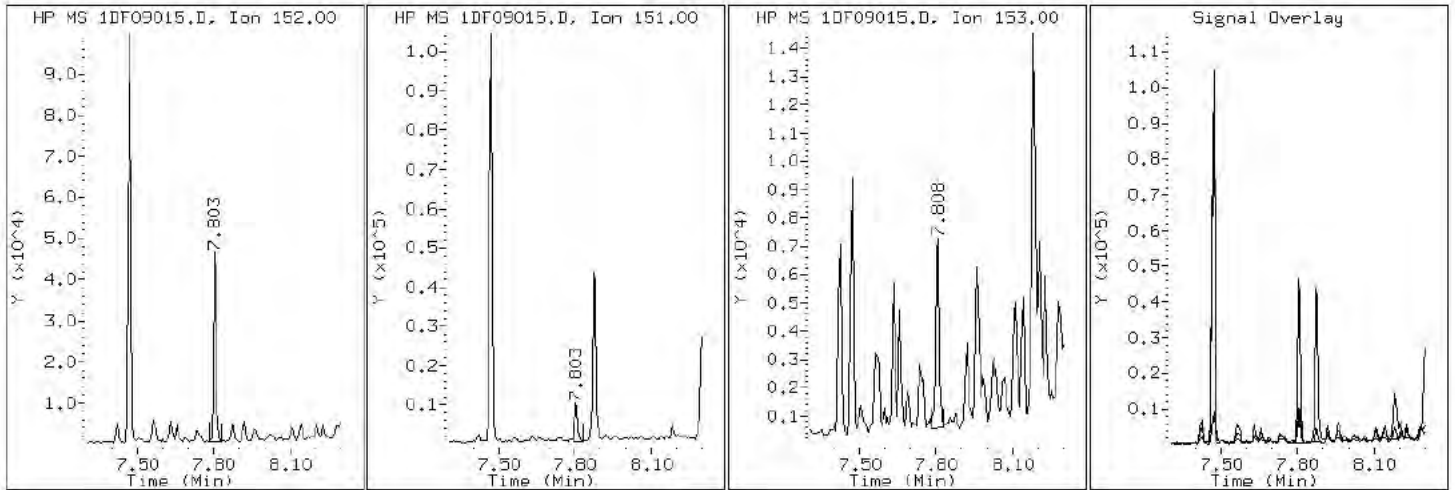
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

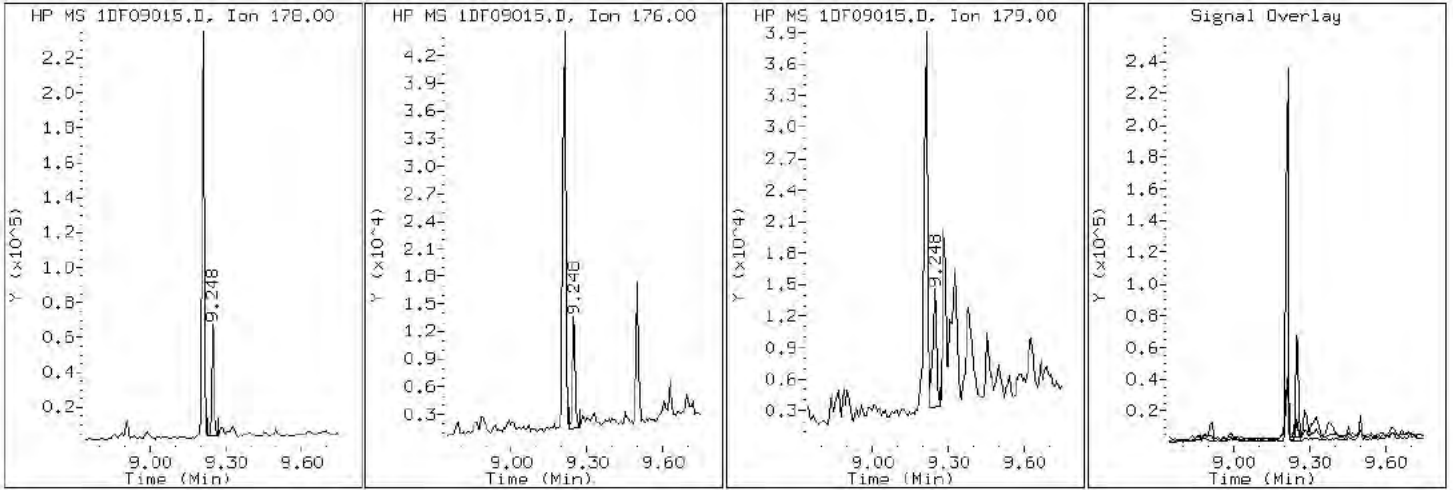
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

13 Anthracene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

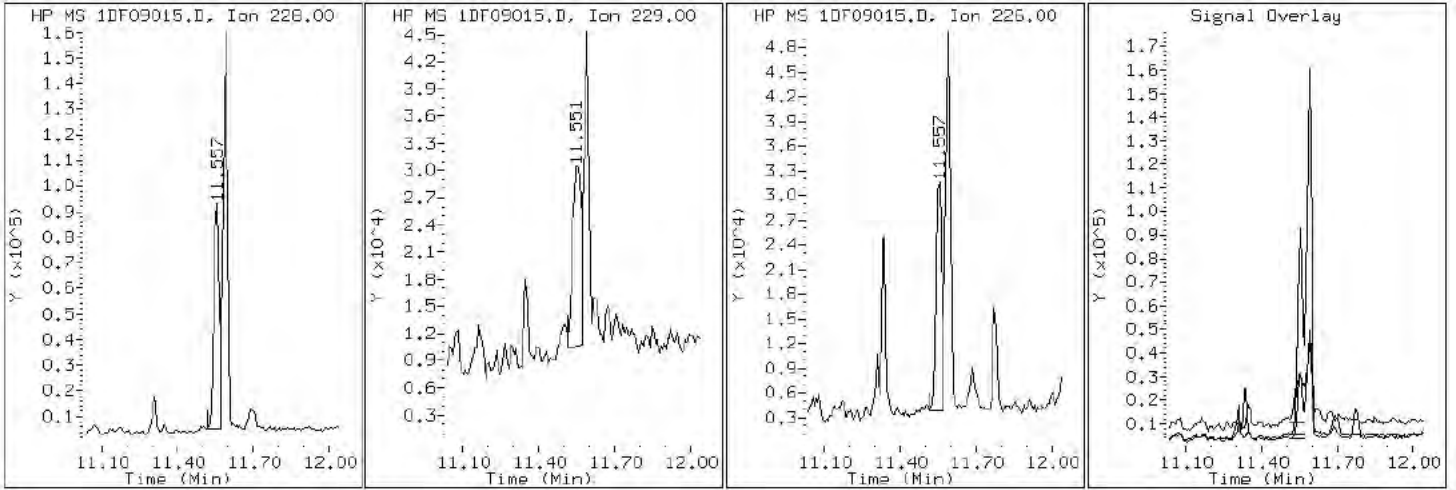
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

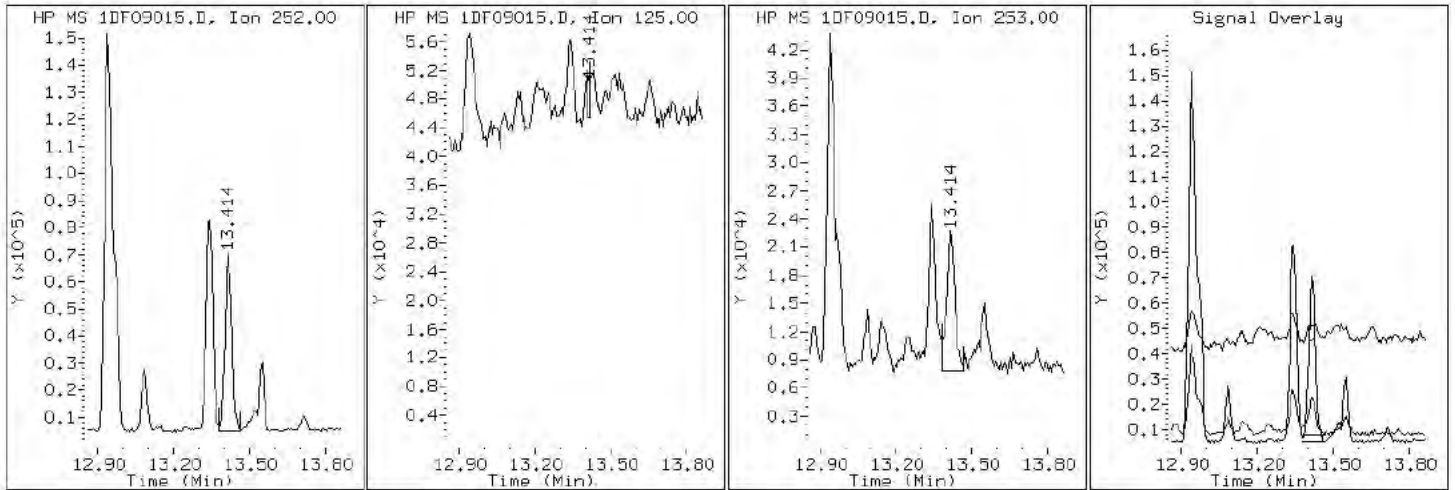
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

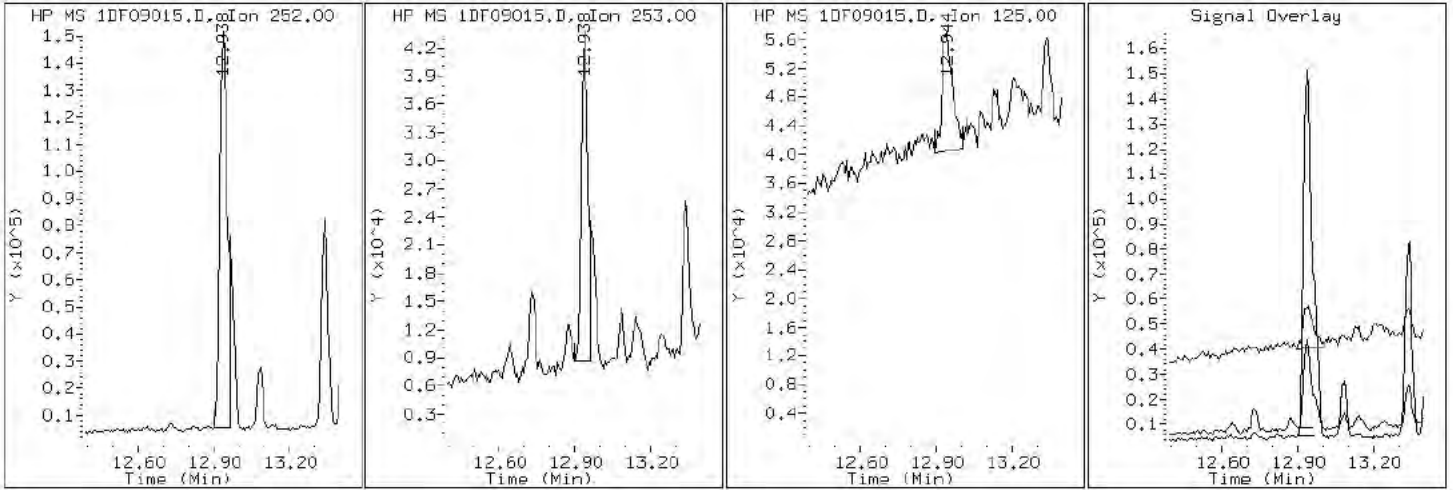
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

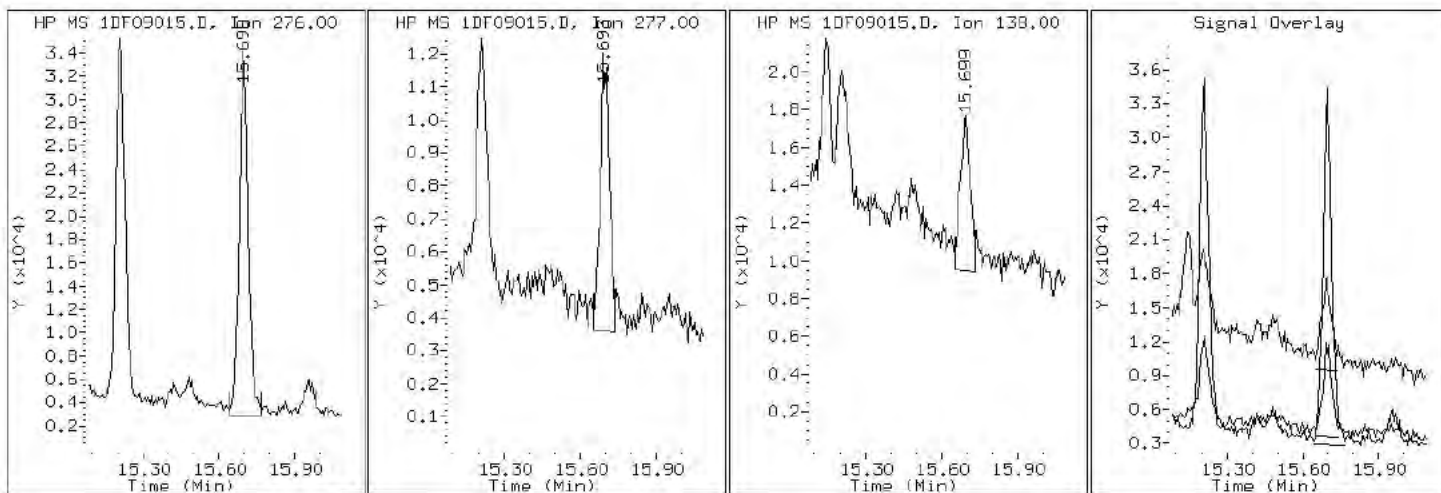
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

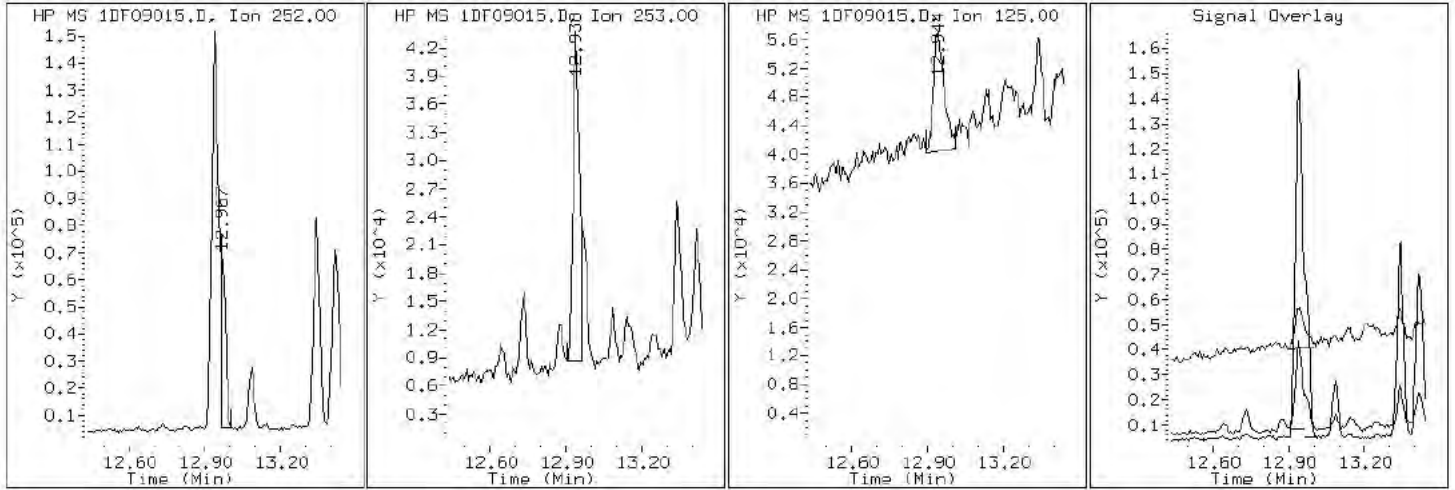
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

22 Benzo(k)fluoranthene





Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

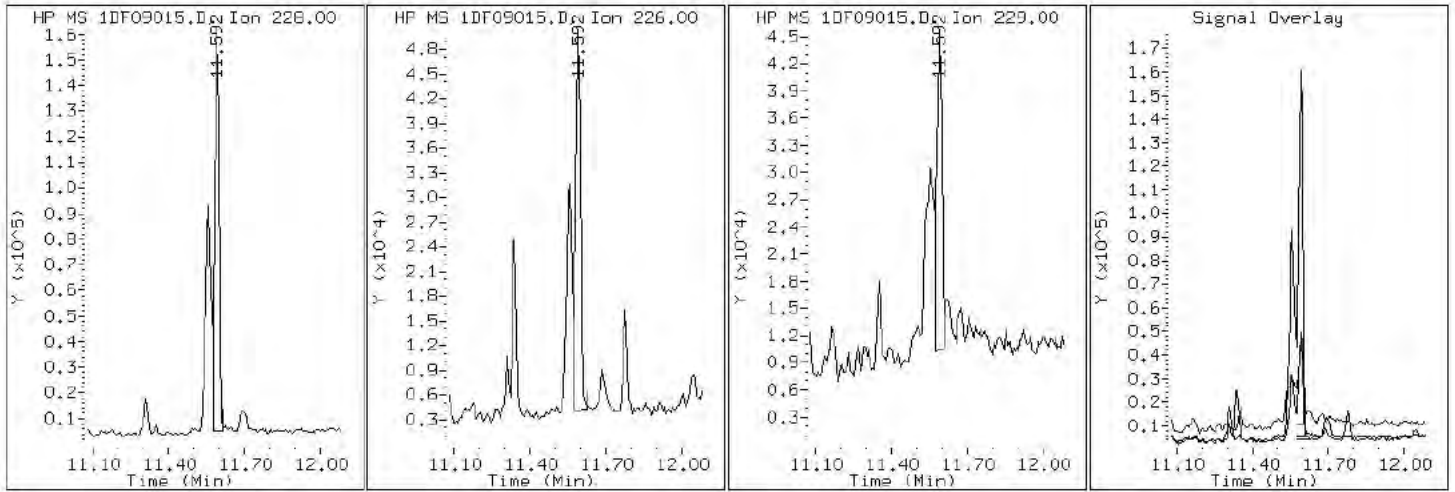
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

20 Chrysene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

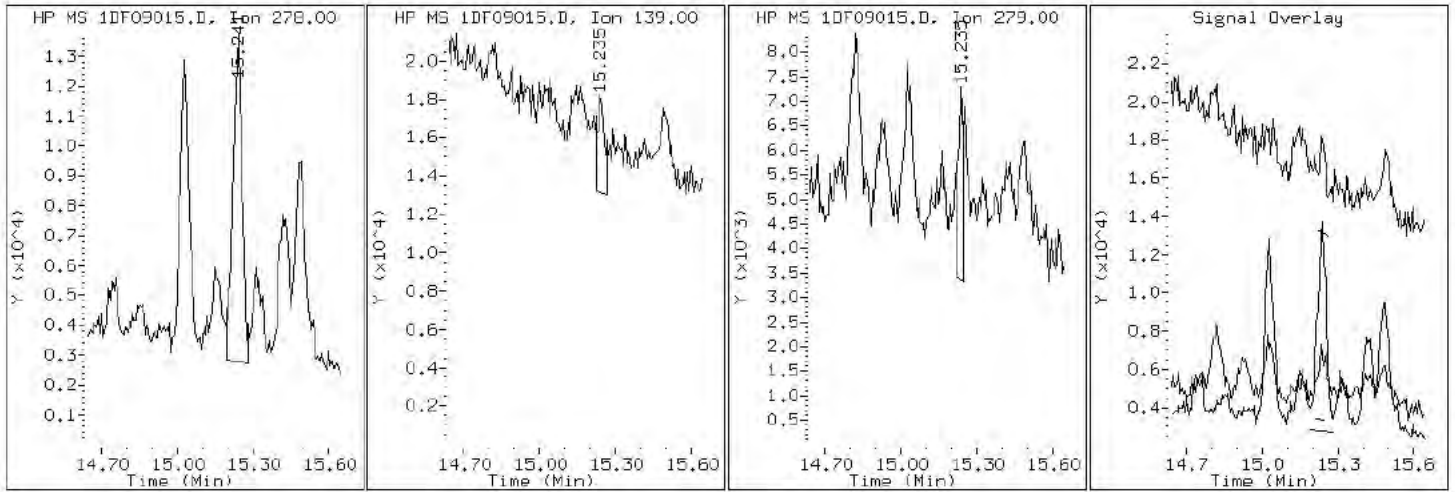
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

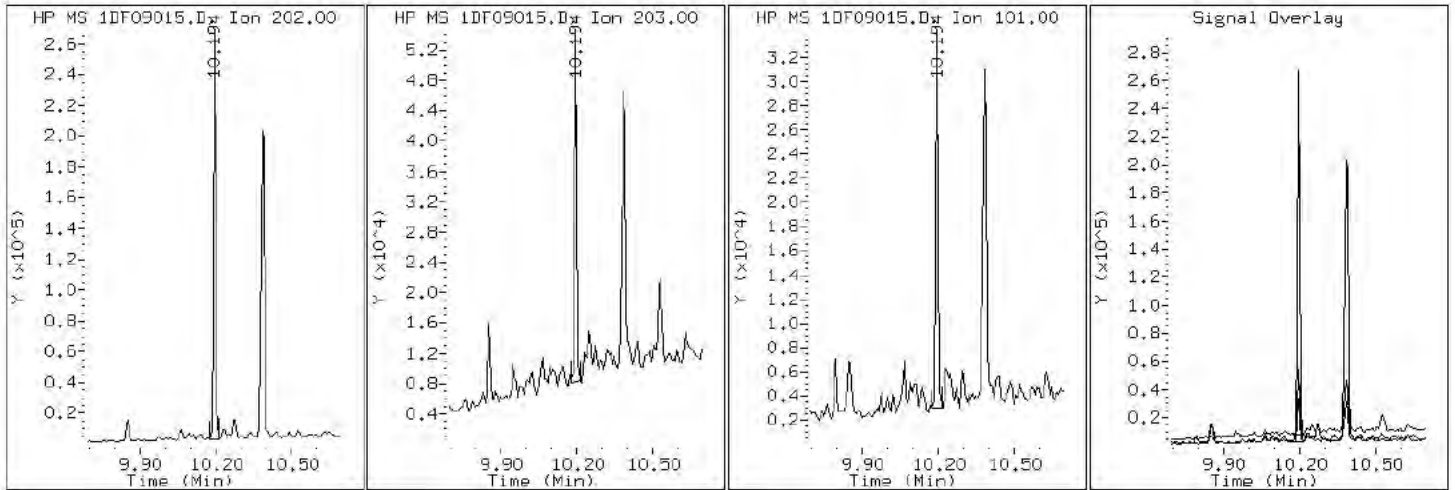
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

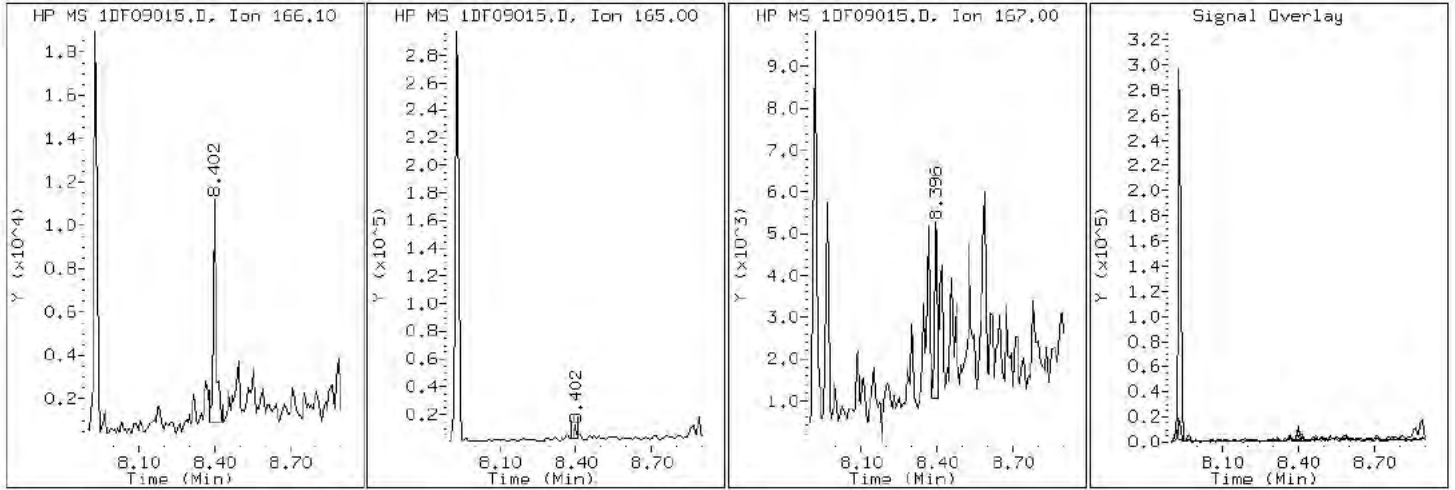
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

10 Fluorene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

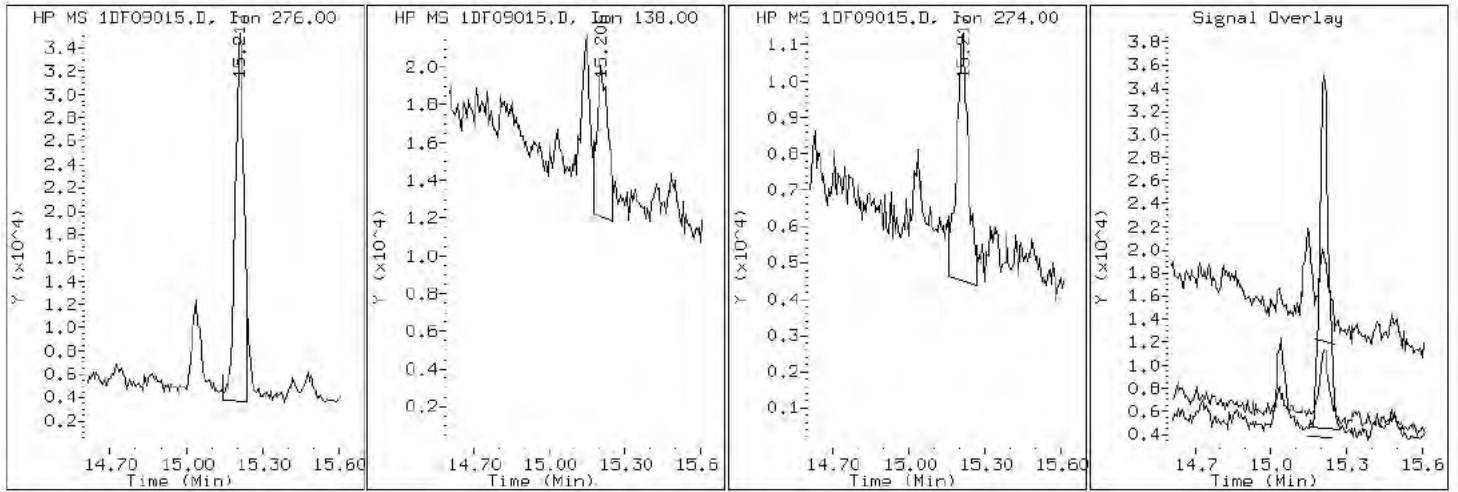
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

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



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

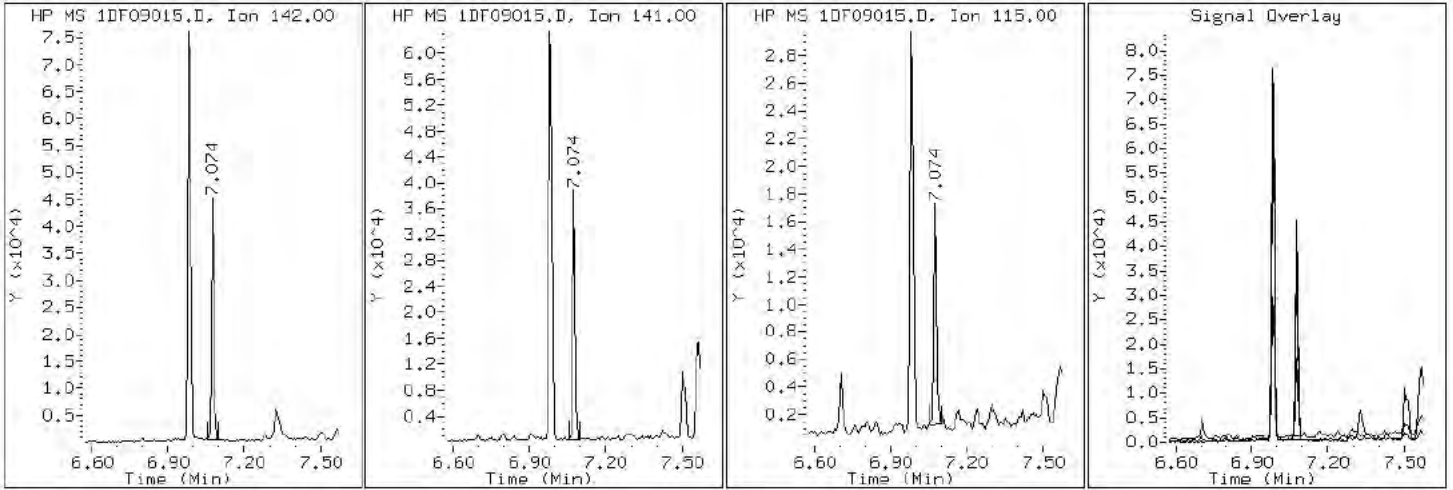
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

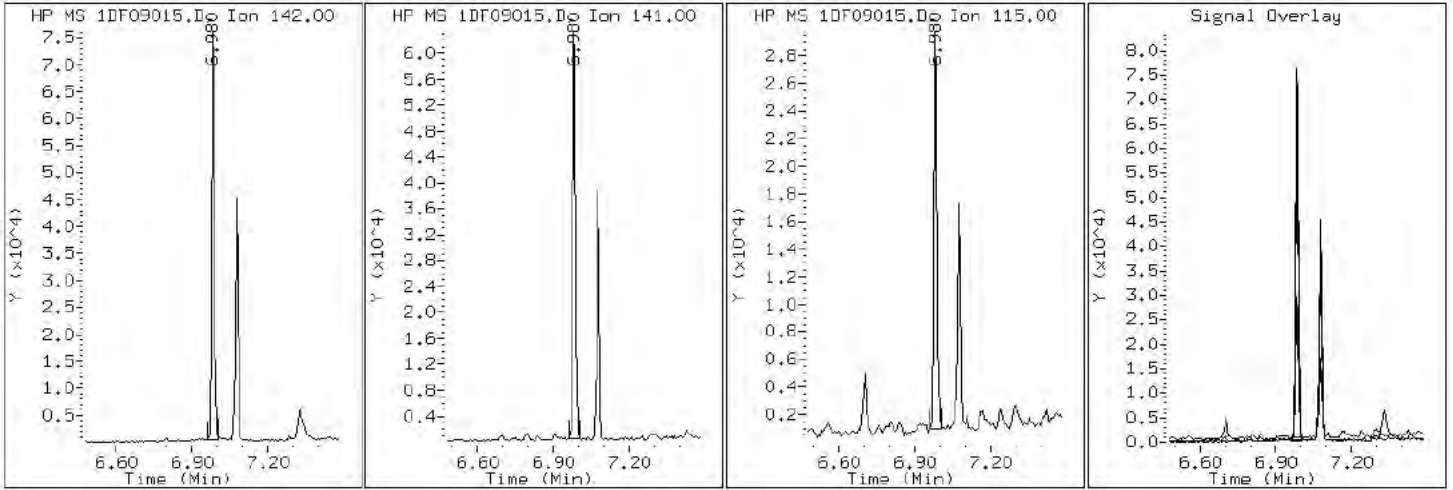
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

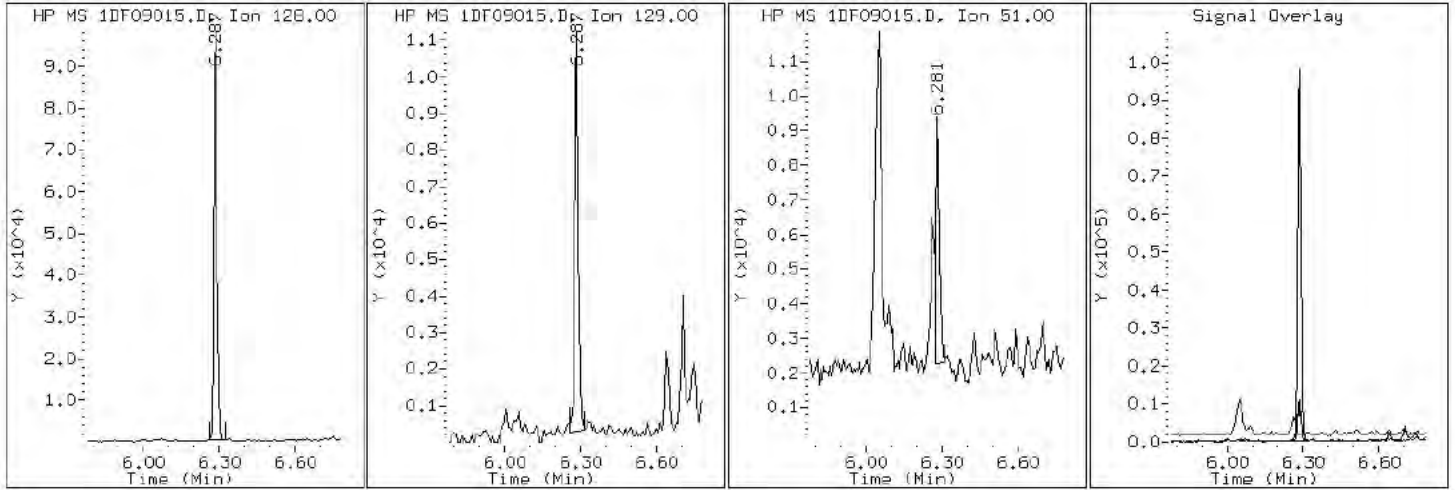
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

2 Naphthalene





Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

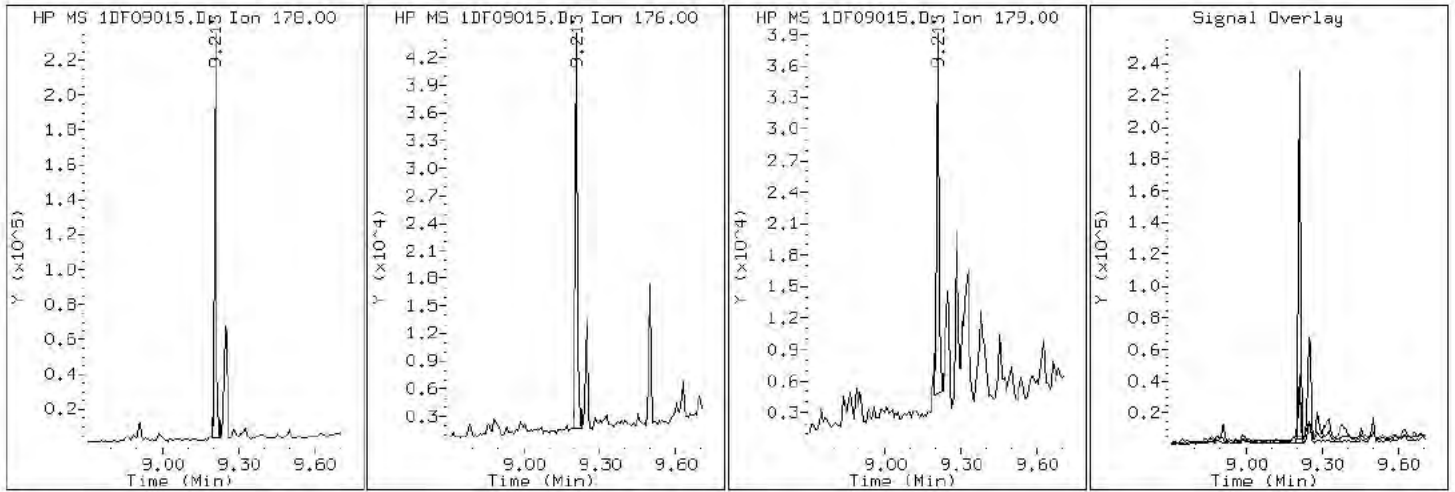
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

12 Phenanthrene



Data File: 1DF09015.D

Date: 09-JUN-2013 14:35

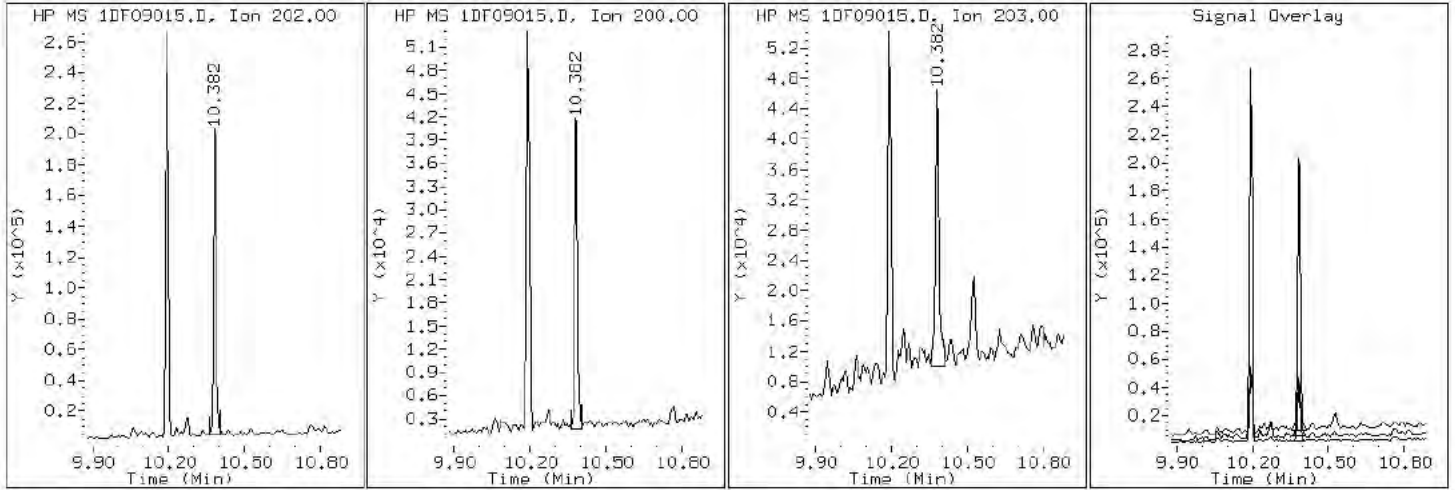
Client ID: FM0098A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-20-a

Operator: SCC

17 Pyrene

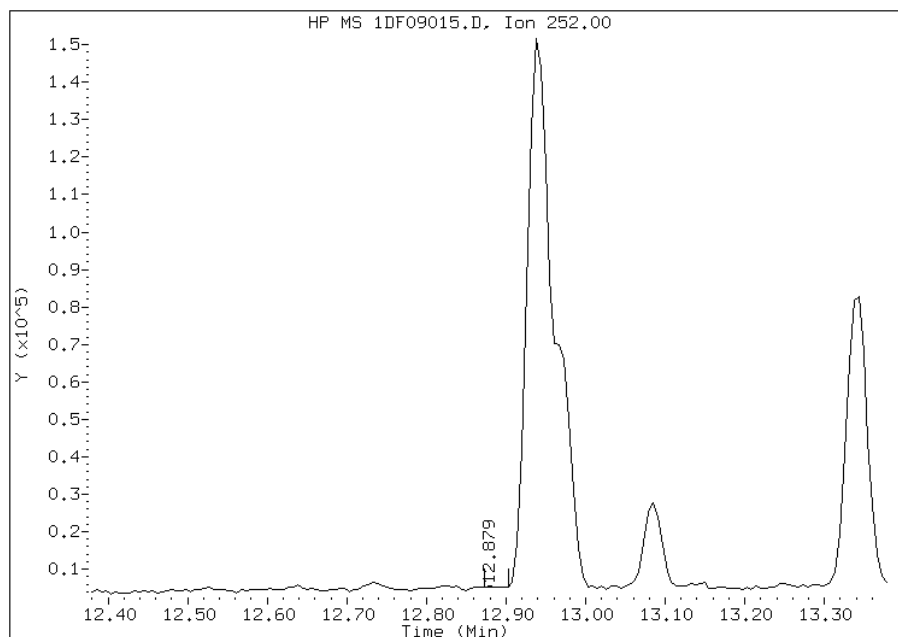


# Manual Integration Report

Data File: 1DF09015.D  
Inj. Date and Time: 09-JUN-2013 14:35  
Instrument ID: BSMSD.i  
Client ID: FM0098A-CS-SP  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/10/2013

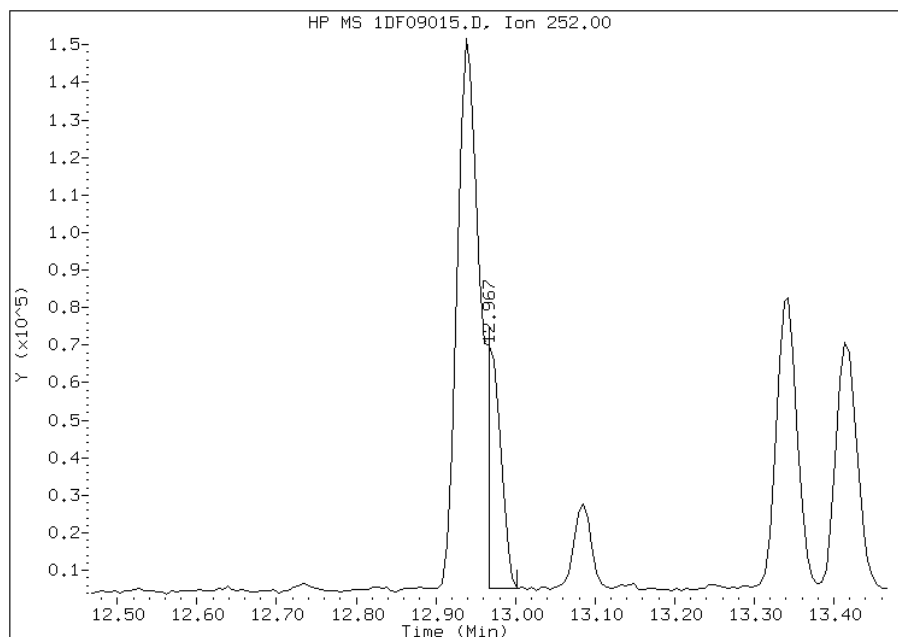
## Processing Integration Results

RT: 12.88  
Response: 212  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 12.97  
Response: 73794  
Amount: 1  
Conc: 66



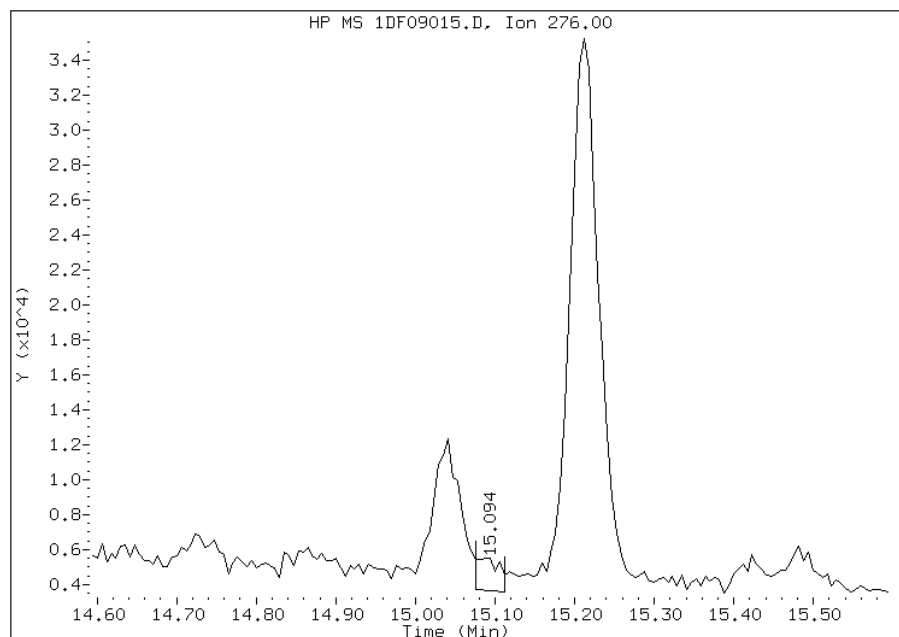
Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:01  
Manual Integration Reason: Analyte Misidentified by the Data System

# Manual Integration Report

Data File: 1DF09015.D  
Inj. Date and Time: 09-JUN-2013 14:35  
Instrument ID: BSMSD.i  
Client ID: FM0098A-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

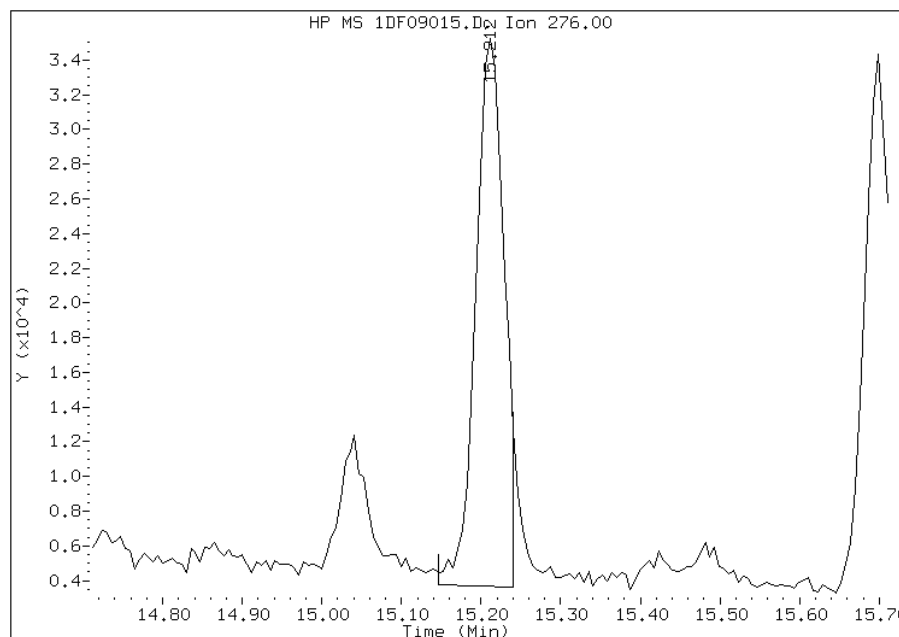
## Processing Integration Results

RT: 15.09  
Response: 3855  
Amount: 0  
Conc: 16



## Manual Integration Results

RT: 15.21  
Response: 78515  
Amount: 1  
Conc: 83



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:02  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0098B-CS-SP Lab Sample ID: 680-90852-21  
 Matrix: Solid Lab File ID: 1DF09016.D  
 Analysis Method: 8270C LL Date Collected: 05/29/2013 09:12  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.27(g) Date Analyzed: 06/09/2013 14:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	34	J	48	6.0
120-12-7	Anthracene	76		10	5.1
56-55-3	Benzo[a]anthracene	170		9.7	4.7
50-32-8	Benzo[a]pyrene	170		13	6.3
205-99-2	Benzo[b]fluoranthene	340		15	7.4
191-24-2	Benzo[g,h,i]perylene	99		24	5.3
207-08-9	Benzo[k]fluoranthene	99		9.7	4.4
218-01-9	Chrysene	250		11	5.4
53-70-3	Dibenz(a,h)anthracene	41		24	5.0
206-44-0	Fluoranthene	280		24	4.8
86-73-7	Fluorene	15	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	110		24	8.6
90-12-0	1-Methylnaphthalene	170		48	5.3
91-57-6	2-Methylnaphthalene	250		48	8.6
91-20-3	Naphthalene	250		48	5.3
85-01-8	Phenanthrene	270		9.7	4.7
129-00-0	Pyrene	220		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09016.D  
 Lab Smp Id: 680-90852-A-21-A Client Smp ID: FM0098B-CS-SP  
 Inj Date : 09-JUN-2013 14:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-21-a  
 Misc Info : 680-90852-A-21-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 15  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	18.732	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN ( ug/l)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136		6.265	6.263	(1.000)	3274777	40.0000	
* 7 Acenaphthene-d10	164		7.940	7.932	(1.000)	1837625	40.0000	
* 11 Phenanthrene-d10	188		9.197	9.189	(1.000)	2922839	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.500	(1.033)	288144	6.72913	540
* 19 Chrysene-d12	240		11.571	11.557	(1.000)	3001827	40.0000	
* 24 Perylene-d12	264		13.486	13.460	(1.000)	2902366	40.0000	
2 Naphthalene	128		6.289	6.281	(1.004)	246734	3.05524	250
3 2-Methylnaphthalene	142		6.988	6.980	(1.115)	157768	3.06824	250
4 1-Methylnaphthalene	142		7.082	7.074	(1.130)	112146	2.11851	170
6 Acenaphthylene	152		7.810	7.802	(0.984)	32111	0.42146	34
10 Fluorene	166		8.404	8.402	(1.058)	10499	0.19198	15(Q)
12 Phenanthrene	178		9.215	9.207	(1.002)	262819	3.32009	270
13 Anthracene	178		9.256	9.248	(1.006)	72578	0.94494	76
16 Fluoranthene	202		10.202	10.194	(1.109)	281992	3.48208	280

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
17 Pyrene	202	10.390	10.382	(0.898)	240759	2.73944	220
18 Benzo(a)anthracene	228	11.553	11.539	(0.998)	185041	2.07707	170
20 Chrysene	228	11.594	11.580	(1.002)	246895	3.07766	250
21 Benzo(b)fluoranthene	252	12.916	12.896	(0.958)	306815	4.21967	340
22 Benzo(k)fluoranthene	252	12.946	12.938	(0.960)	93140	1.22323	98
23 Benzo(a)pyrene	252	13.380	13.361	(0.992)	143702	2.09480	170
25 Indeno(1,2,3-cd)pyrene	276	15.137	15.111	(1.122)	88916	1.32666	110(M)
26 Dibenzo(a,h)anthracene	278	15.167	15.147	(1.125)	29871	0.50260	40
27 Benzo(g,h,i)perylene	276	15.619	15.587	(1.158)	81258	1.23301	99

QC Flag Legend

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

Data File: 1DF09016.D

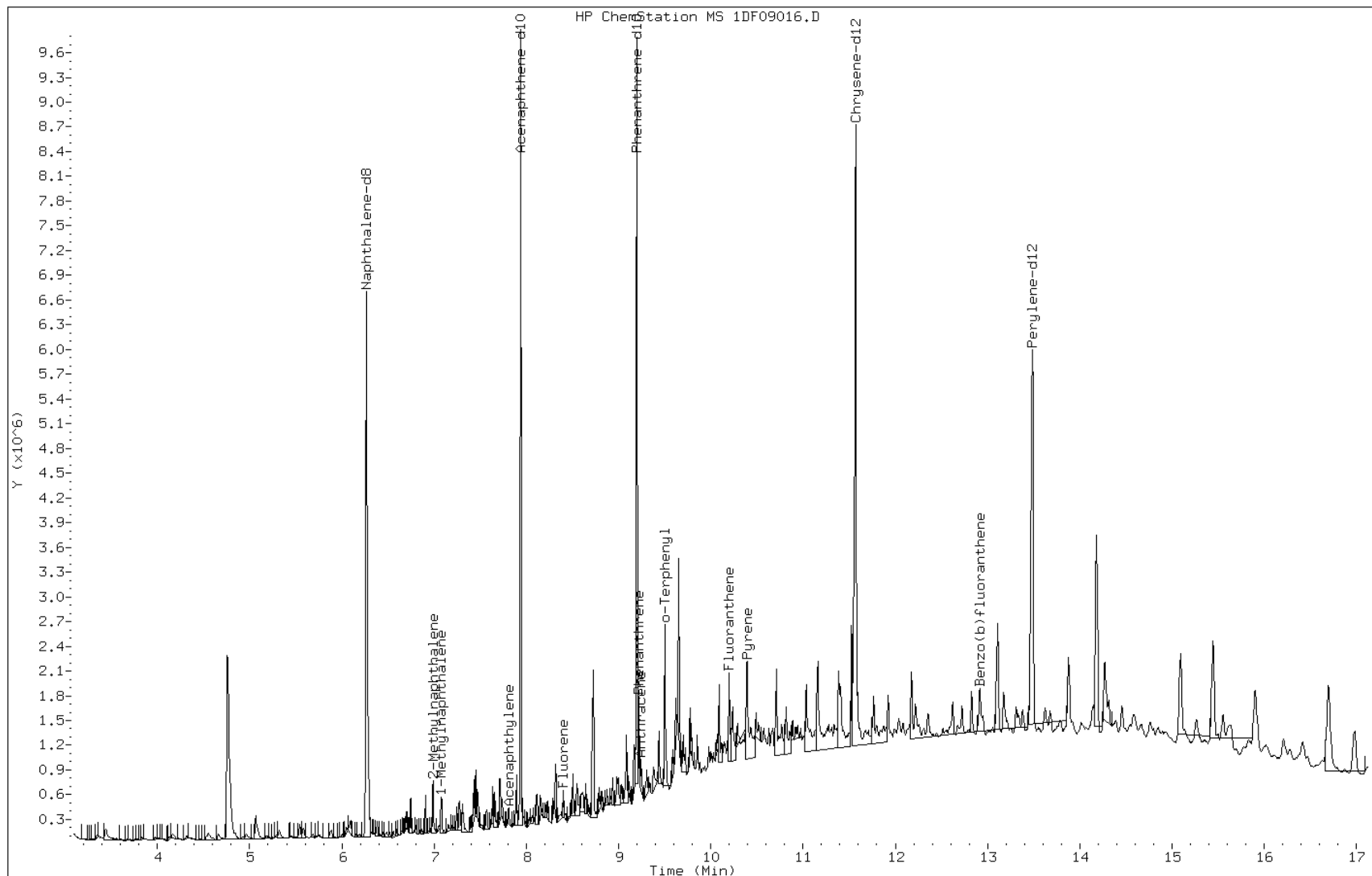
Date: 09-JUN-2013 14:57

Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC





Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

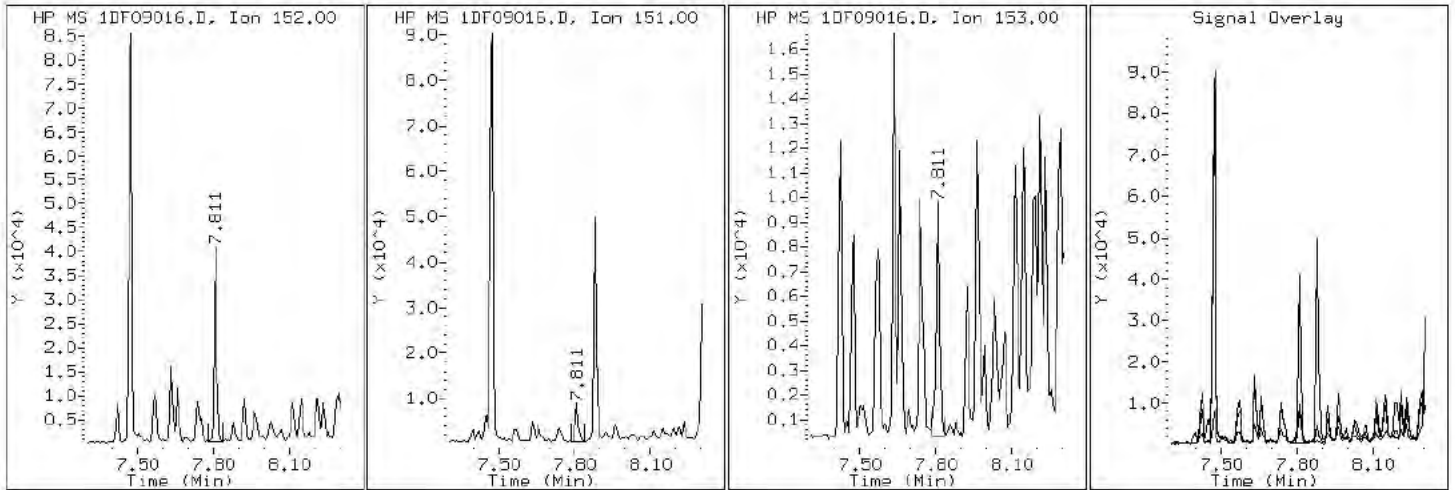
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

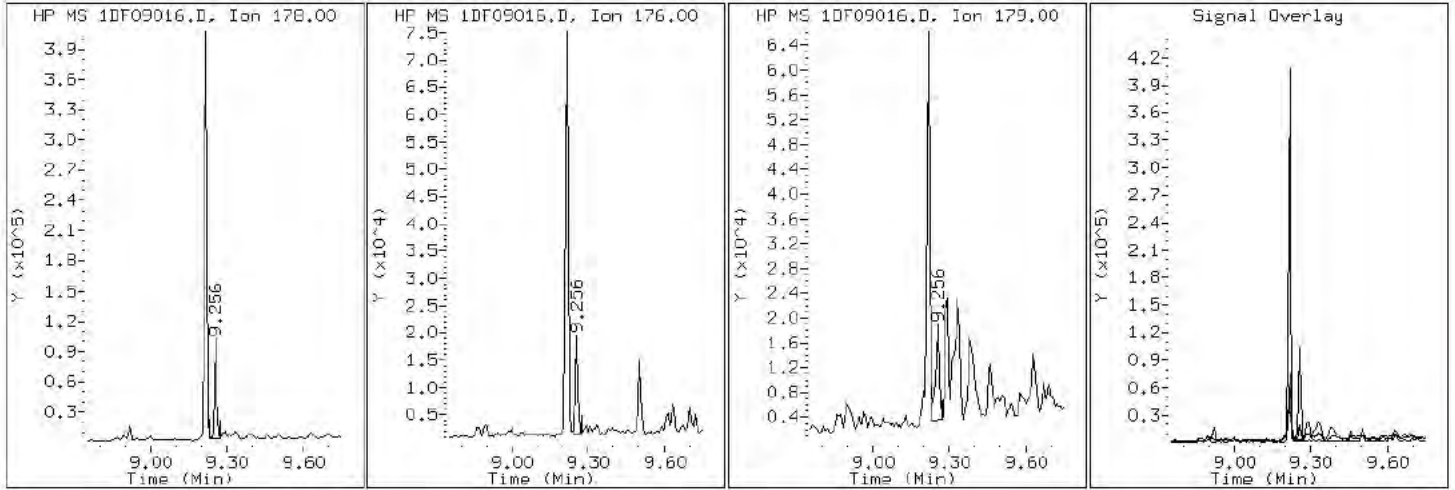
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

13 Anthracene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

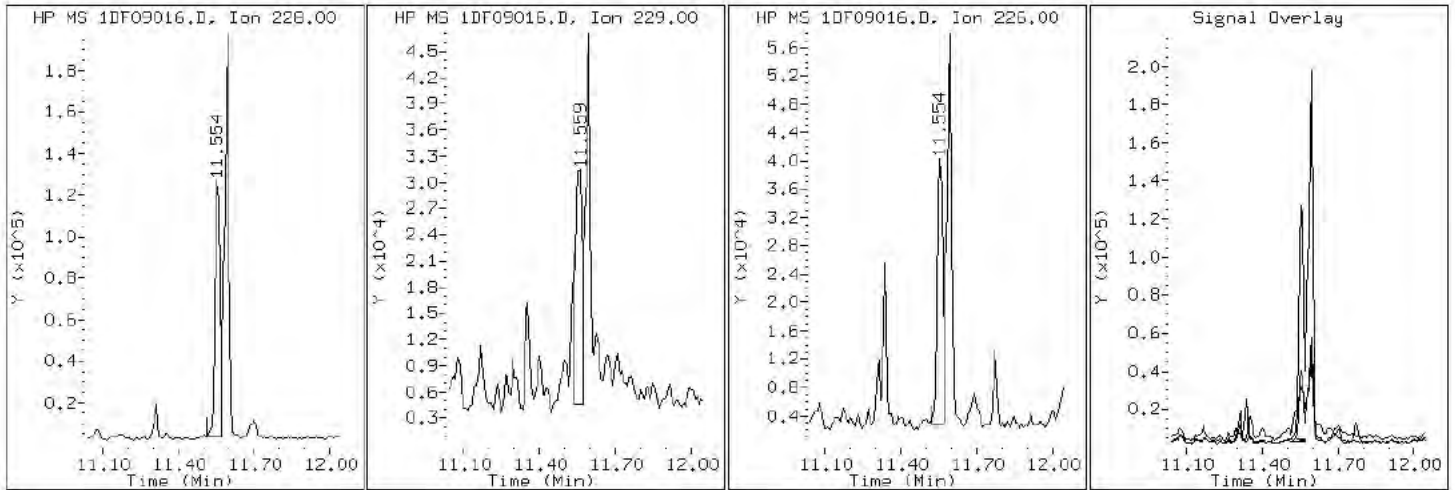
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

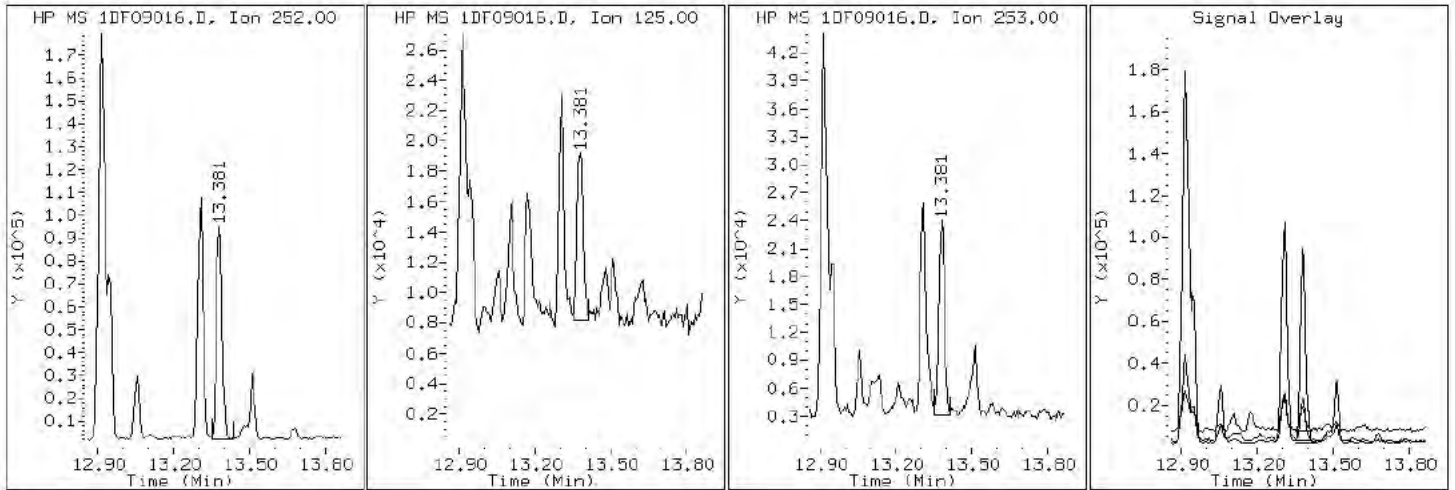
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

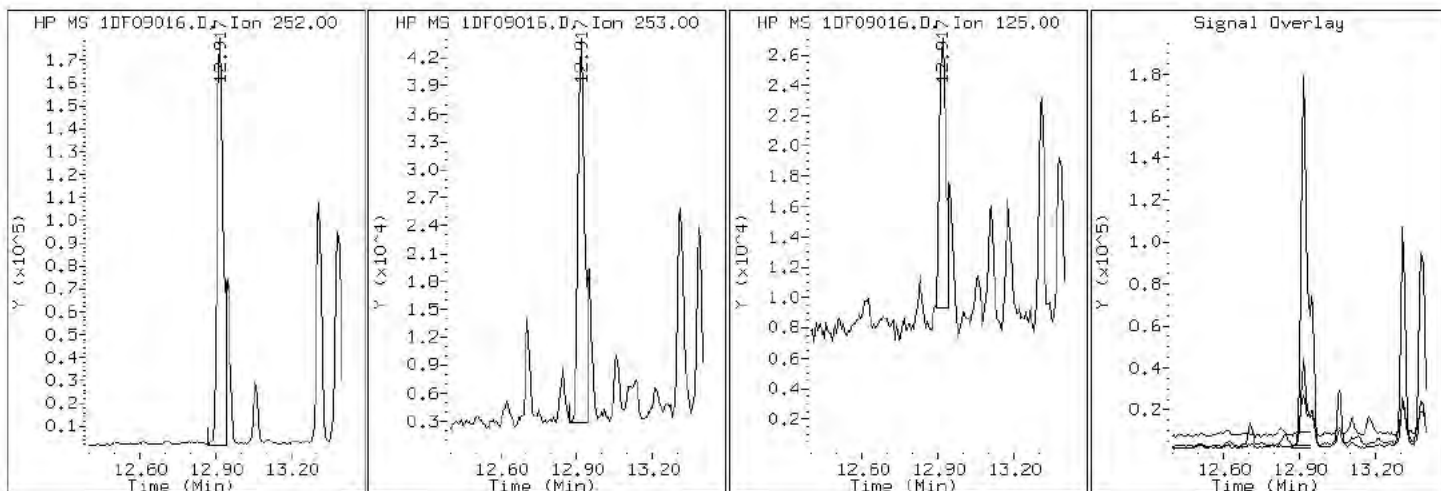
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

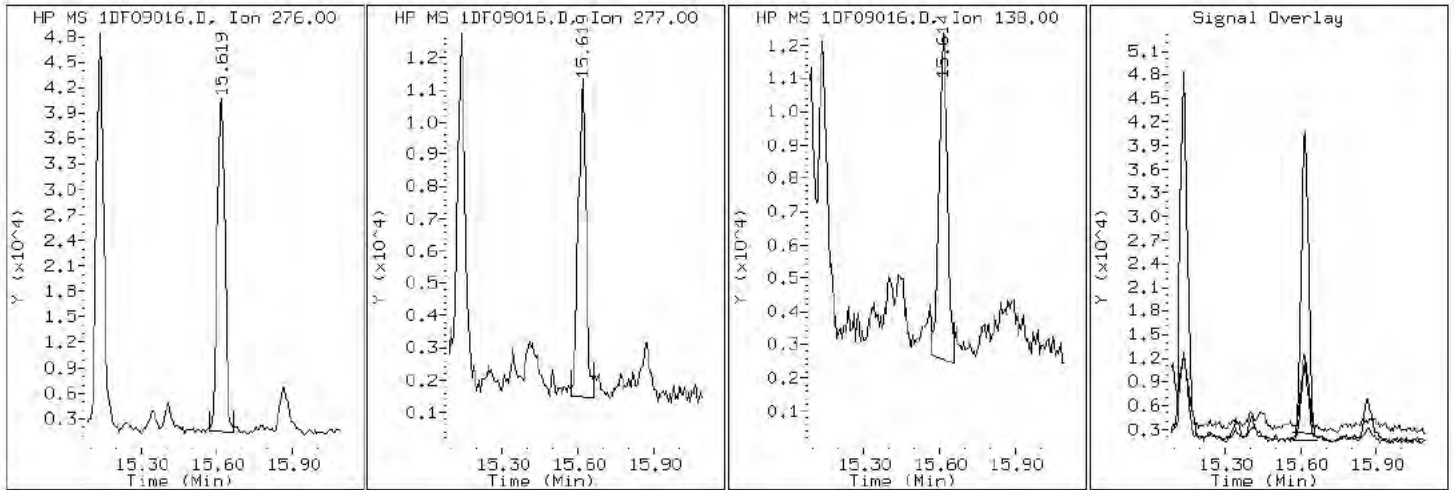
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

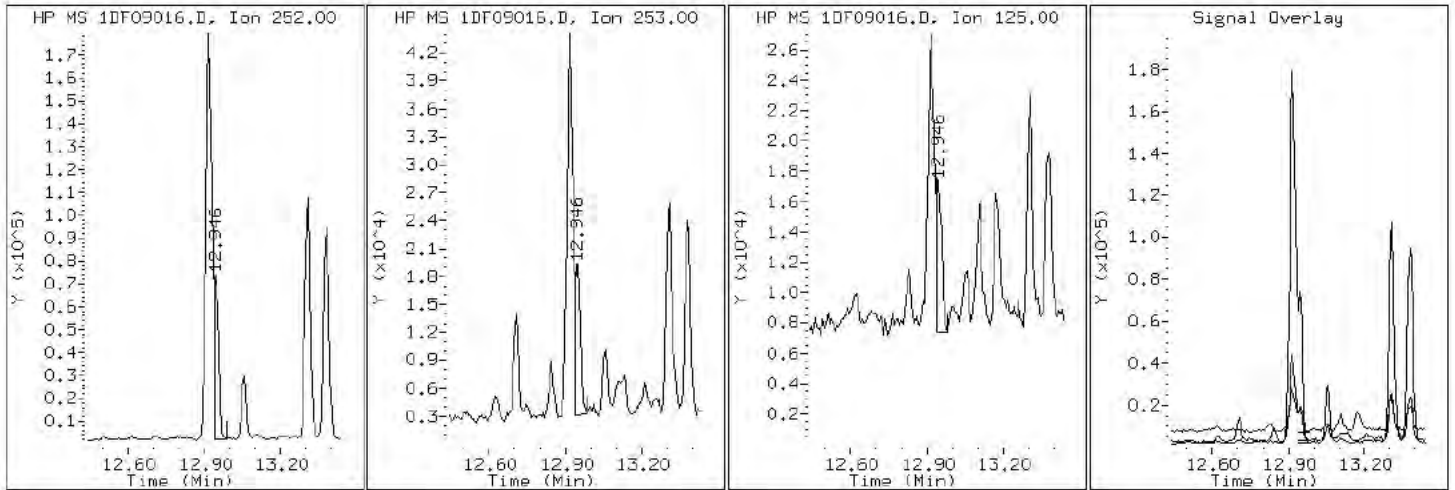
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

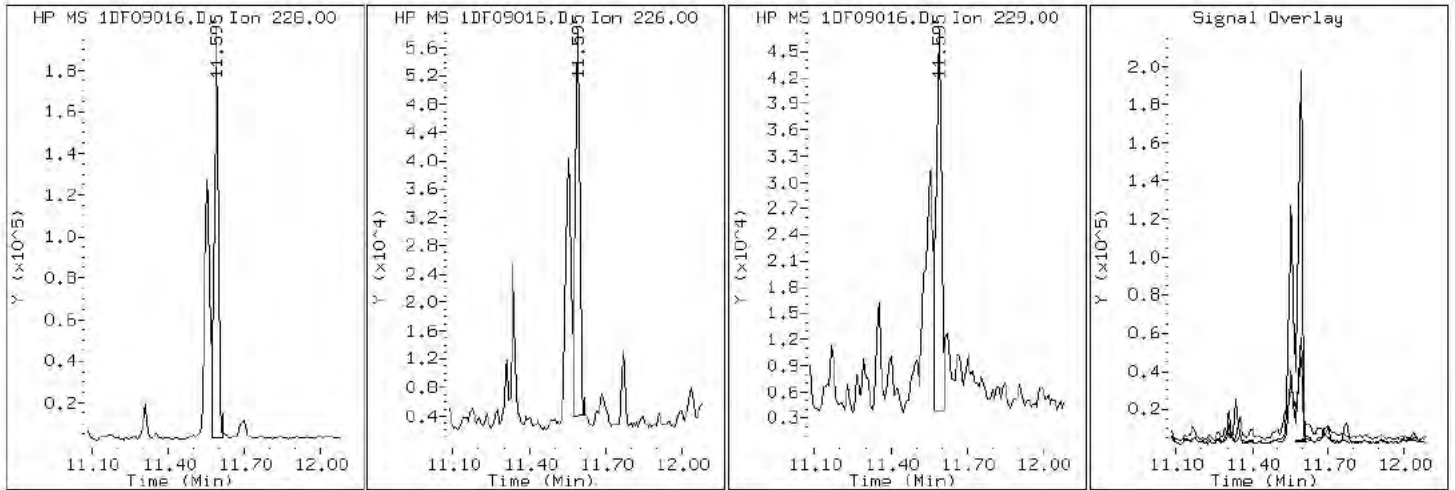
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

20 Chrysene





Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

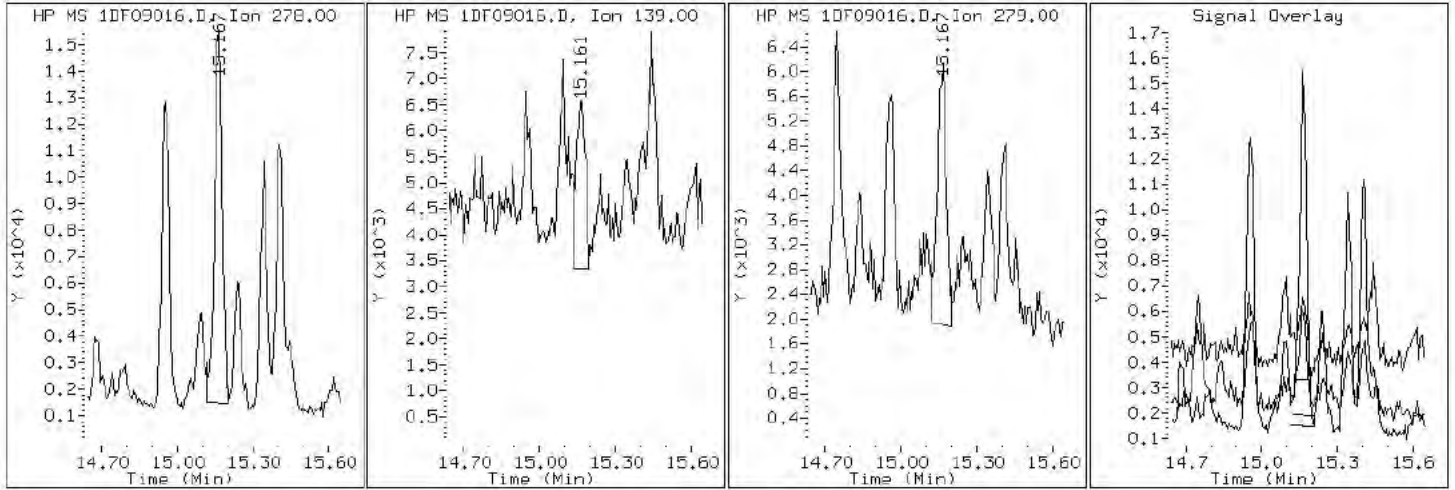
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

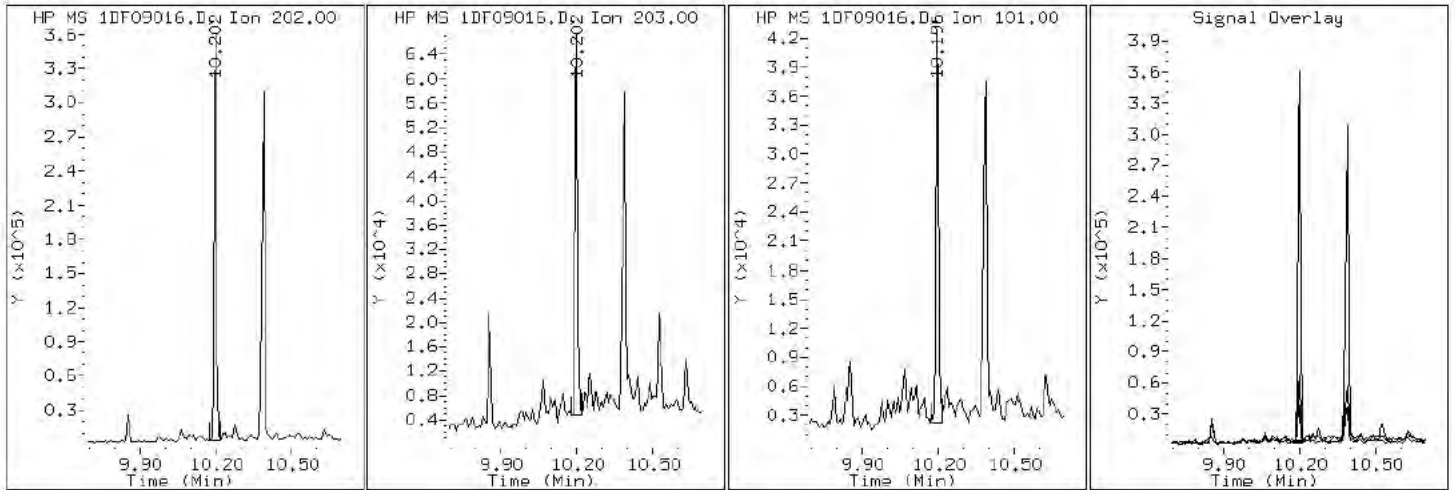
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

16 Fluoranthene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

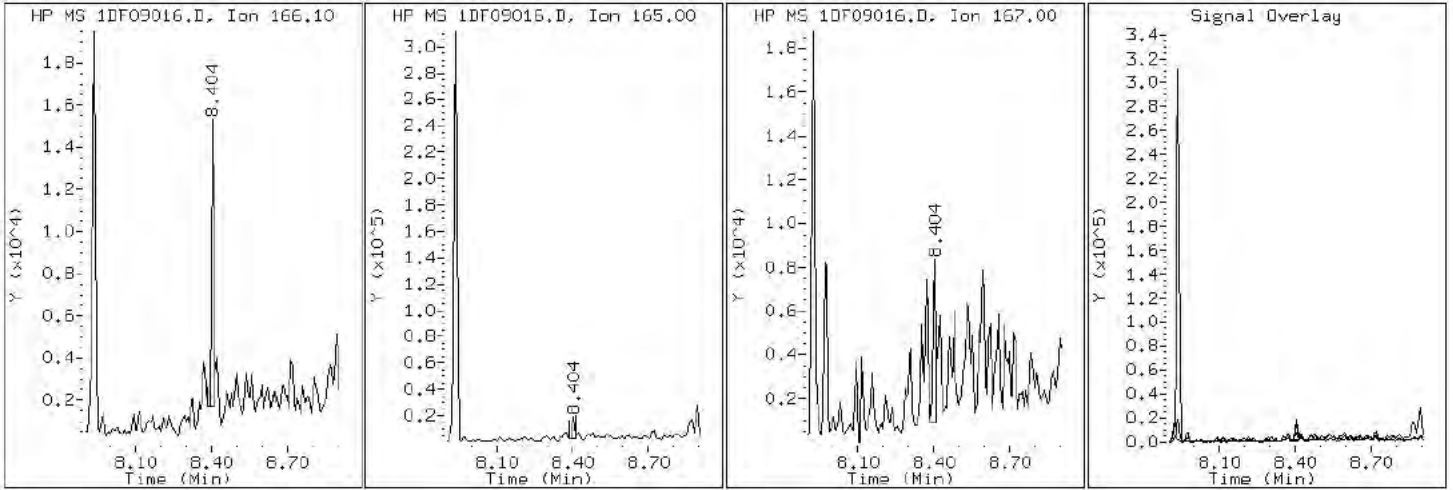
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

10 Fluorene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

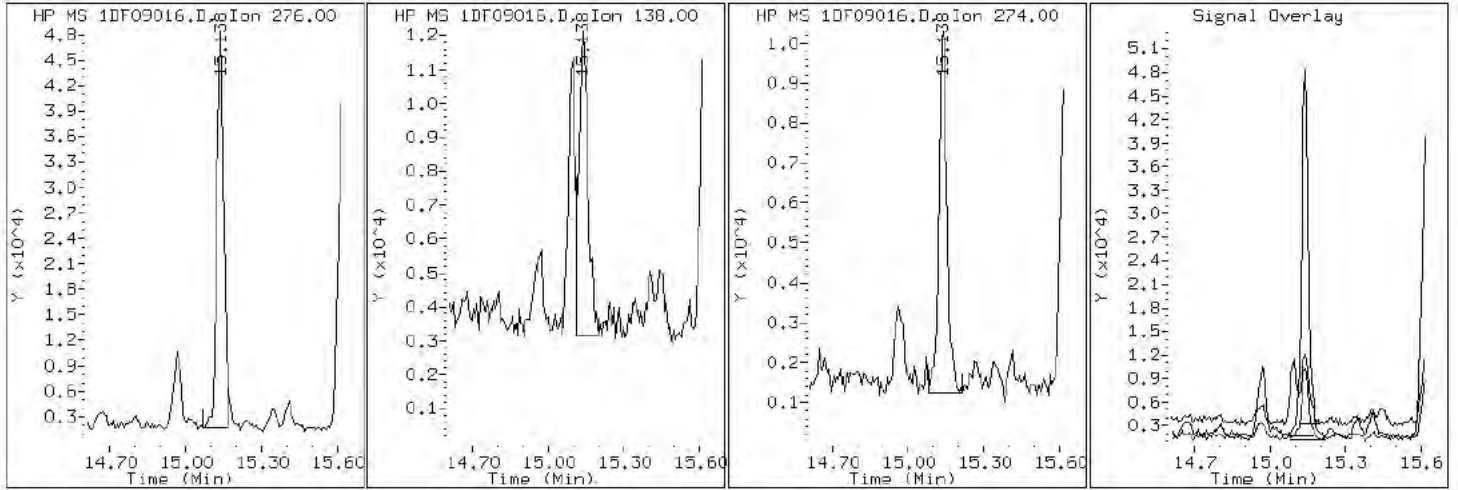
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

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



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

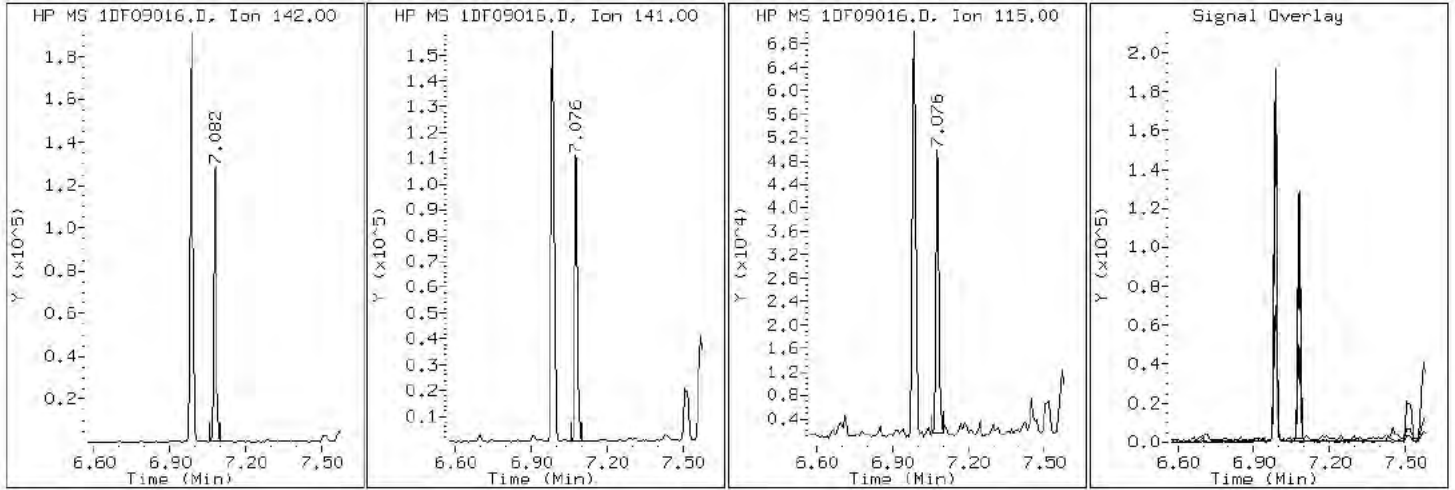
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

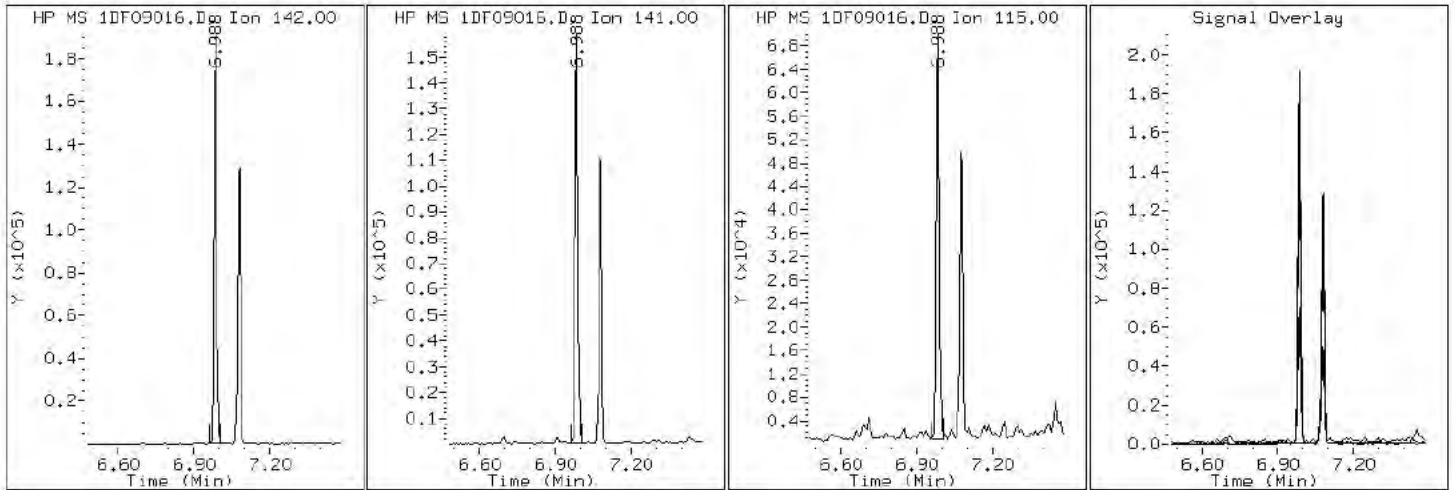
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

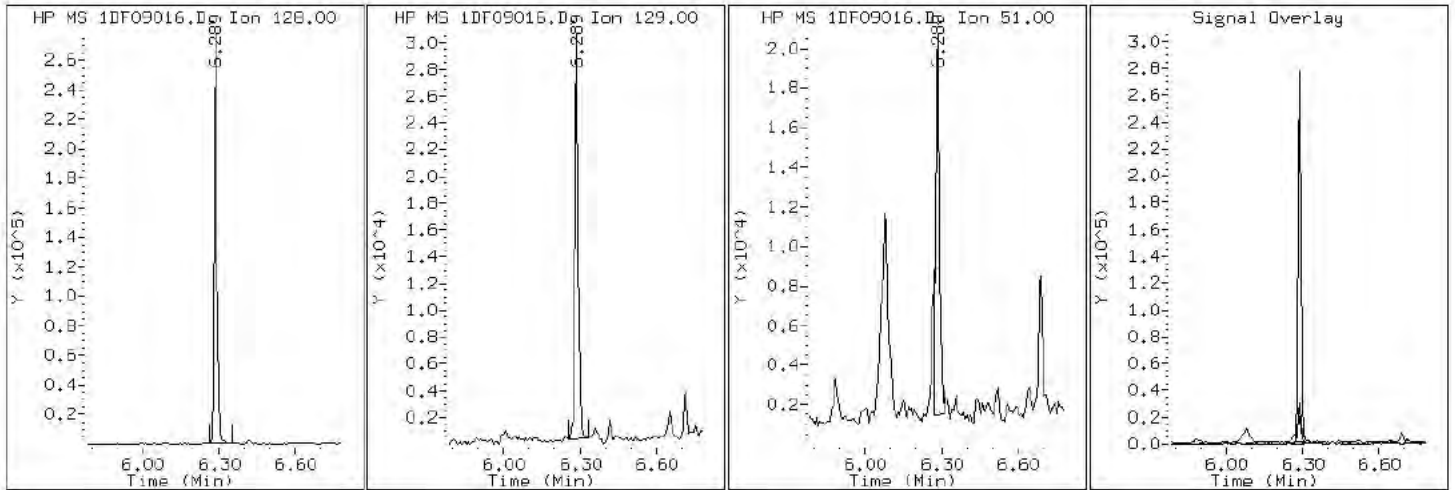
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

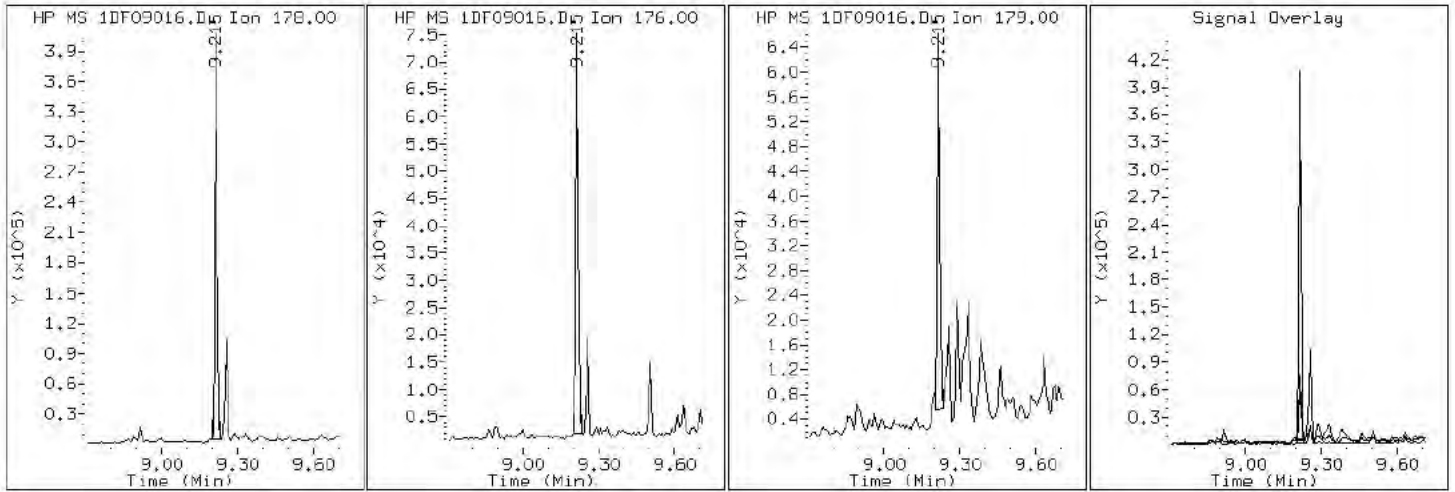
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

12 Phenanthrene





Data File: 1DF09016.D

Date: 09-JUN-2013 14:57

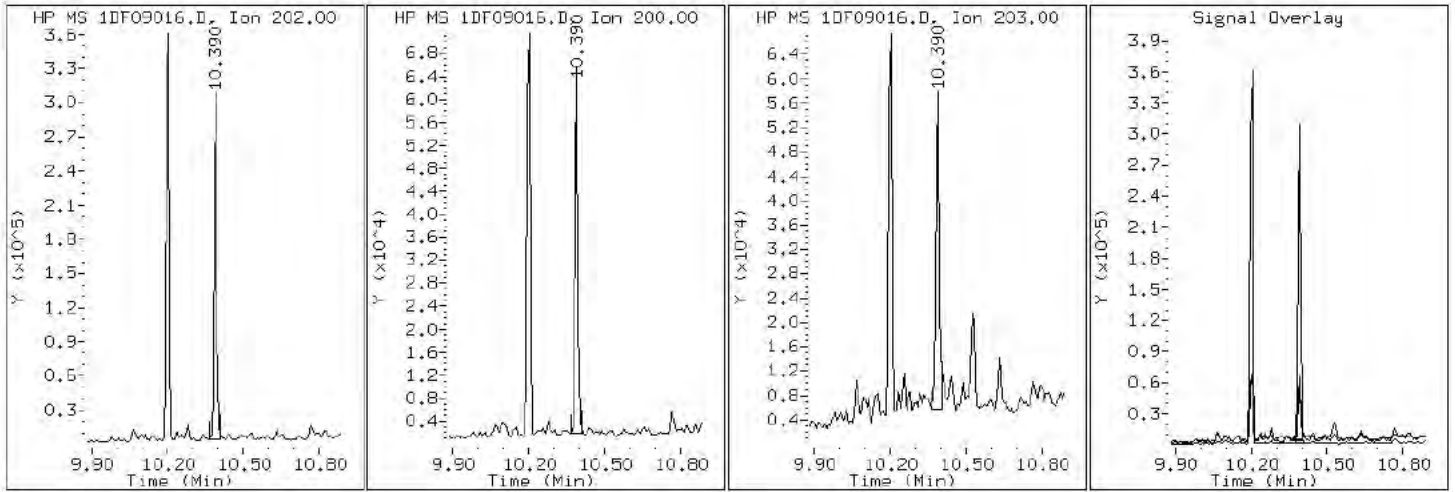
Client ID: FM0098B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90852-a-21-a

Operator: SCC

17 Pyrene

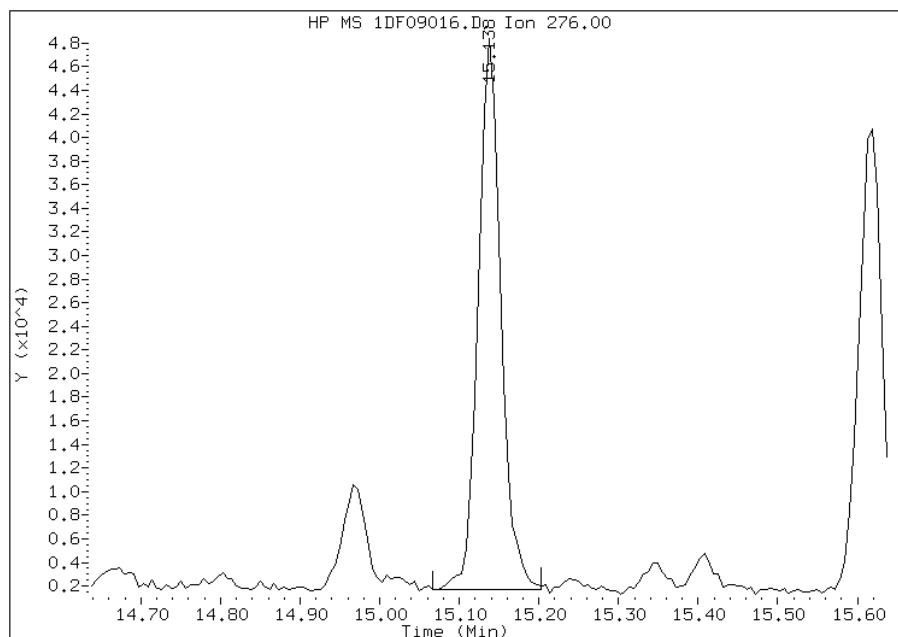


# Manual Integration Report

Data File: 1DF09016.D  
Inj. Date and Time: 09-JUN-2013 14:57  
Instrument ID: BSMSD.i  
Client ID: FM0098B-CS-SP  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

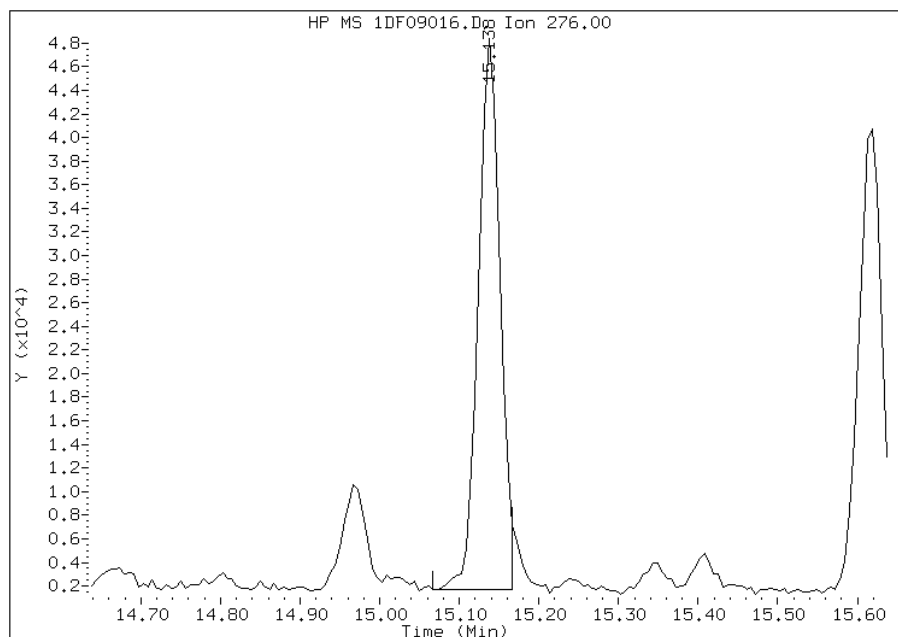
## Processing Integration Results

RT: 15.14  
Response: 92118  
Amount: 1  
Conc: 110



## Manual Integration Results

RT: 15.14  
Response: 88916  
Amount: 1  
Conc: 107



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:21  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137917

SDG No.: 68090852-1

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

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137917/8	1AE30007.D
Level 2	IC 660-137917/9	1AE30008.D
Level 3	IC 660-137917/10	1AE30009.D
Level 4	IC 660-137917/11	1AE30010.D
Level 5	ICIS 660-137917/7	1AE30006.D
Level 6	IC 660-137917/12	1AE30011.D
Level 7	IC 660-137917/13	1AE30012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.7847 0.8836	0.8329 0.9380	0.8269	0.8583	0.9066	Ave		0.8616			0.0000	6.0	15.0				
2-Methylnaphthalene	0.2155 0.4325	0.2989 0.4742	0.3535	0.4204	0.4394	None	0.0039	0.4498						0.9955			
1-Methylnaphthalene	0.5083 0.6219	0.5518 0.6350	0.6359	0.6855	0.5816	Ave		0.6029			0.0000	9.9	15.0				
1,1'-Biphenyl	0.3134 0.6386	0.6325 0.7325	0.6467	0.7050	0.6286	Lin2	0.0027	0.6933						0.9977			
Acenaphthylene	1.2715 1.7928	1.4868 2.0493	1.4933	1.6532	1.6816	None	0.0034	1.8806						0.9909			
Acenaphthene	0.9071 0.9589	0.8303 1.1038	0.8251	0.9180	0.9146	Ave		0.9226			0.0000	10.1	15.0				
Dibenzofuran	0.8288 1.5050	1.1758 1.5570	1.2515	1.4153	1.2845	None	0.0021	1.4175						0.9937			
Fluorene	0.4789 1.1129	0.8158 1.1967	0.9455	1.0234	0.9654	None	0.0028	1.0589						0.9915			
Phenanthrene	0.8320 0.9019	0.8248 0.9856	0.7457	0.8420	0.8690	Ave		0.8573			0.0000	8.6	15.0				
Anthracene	0.7790 0.9645	0.9696 1.0272	1.0330	0.9031	0.9549	Ave		0.9473			0.0000	9.1	15.0				
Fluoranthene	0.6407 1.0519	0.9273 1.0483	0.8749	0.9513	1.0120	None	0.0018	1.0027						0.9952			
Pyrene	1.0116 1.1678	1.1655 1.1511	1.2422	1.2040	1.1463	Ave		1.1555			0.0000	6.2	15.0				
Benzo[a]anthracene	1.2837 1.0286	1.0444 1.1650	0.9240	1.0307	1.0456	Ave		1.0746			0.0000	10.8	15.0				
Chrysene	1.3676 1.1698	1.1862 1.0514	1.1662	1.1877	1.0303	Ave		1.1762			0.0000	8.3	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.: 680-90852-1 Analy Batch No.: 137917  
 SDG No.: 68090852-1  
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N  
 Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

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[b]fluoranthene	1.1428 1.2137	0.6048 1.2471	0.7823	0.9374	1.0349	Qua	0.0212	0.9211	-0.089		0.0000			0.9975		0.9900	
Benzo[k]fluoranthene	0.4476 1.3352	1.4305 1.5413	1.3535	1.3795	1.3107	Lin2	0.0033	1.4398						0.9935			
Benzo[a]pyrene	0.9129 1.0679	0.9598 1.1835	0.8304	0.8773	0.9973	Ave		0.9756			0.0000	12.4	15.0				
Indeno[1,2,3-cd]pyrene	0.6492 0.8407	0.5575 0.9868	0.7235	0.6982	0.7650	Qua	0.0057	1.3939	-0.313		0.0000			0.9998		0.9900	
Dibenz(a,h)anthracene	0.6565 0.9347	0.6678 0.9947	0.8013	0.7916	0.8356	None	0.0033	0.9364						0.9928			
Benzo[g,h,i]perylene	0.8058 0.9417	0.7808 0.9053	0.8970	0.8813	0.8407	Ave		0.8711			0.0000	6.6	15.0				
o-Terphenyl	0.5598 0.5761	0.4896 0.6174	0.5054	0.5135	0.5599	Ave		0.5460			0.0000	8.3	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137917

SDG No.: 68090852-1

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

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137917/8	1AE30007.D
Level 2	IC 660-137917/9	1AE30008.D
Level 3	IC 660-137917/10	1AE30009.D
Level 4	IC 660-137917/11	1AE30010.D
Level 5	ICIS 660-137917/7	1AE30006.D
Level 6	IC 660-137917/12	1AE30011.D
Level 7	IC 660-137917/13	1AE30012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	2564 453050	14247 808043	72755	142015	310274	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	None	704 221764	5113 408513	31104	69559	150366	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1661 318847	9438 547004	55947	113430	199034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Lin2	1024 327427	10819 630960	56900	116654	215126	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	None	2453 443520	14274 812251	69448	148976	312247	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	1750 237217	7971 437520	38374	82723	169836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	None	1599 372324	11288 617118	58203	127539	238515	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	None	924 275316	7832 474318	43971	92220	179256	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	2262 369301	11509 658799	53771	121579	251727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	2118 394926	13529 686637	74490	130408	276628	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	None	1742 430714	12939 700755	63089	137369	293153	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2123 424933	13782 696926	72282	139918	296534	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	2694 374261	12350 705326	53768	119782	270485	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2870 425638	14027 636573	67856	138024	266526	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Qua	2336 394702	6478 561045	44371	92047	252249	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137917

SDG No.: 68090852-1

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

Calibration Start Date: 05/30/2013 15:07 Calibration End Date: 05/30/2013 16:38 Calibration ID: 2994

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[k]fluoranthene	PRY	Lin2	915 434205	15322 693382	76772	135460	319488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	1866 347277	10280 532445	47097	86149	243095	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Qua	1327 273397	5971 443933	41038	68563	186459	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	None	1342 303964	7153 447505	45447	77730	203684	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1647 306240	8363 407273	50880	86542	204917	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	1522 235919	6832 412698	36445	74153	162193	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD  
Lin2 = Linear 1/conc^2 ISTD  
None = No Calib Curve  
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30006.D  
 Lab Smp Id: CCVIS-1559459  
 Inj Date : 30-MAY-2013 15:07  
 Operator : TP  
 Smp Info : CCVIS-1559459  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m  
 Meth Date : 31-May-2013 13:45 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 16:38 Cal File: 1AE30012.D  
 Als bottle: 3 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM-VM7N

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	=====	136	2.493	2.493	(1.000)	684481	40.0000	(H)
* 7 Acenaphthene-d10	=====	164	3.524	3.524	(1.000)	371379	40.0000	(H)
* 11 Phenanthrene-d10	=====	188	4.464	4.464	(1.000)	579381	40.0000	
\$ 15 o-Terphenyl	=====	230	4.758	4.758	(1.066)	162193	20.0000	20.5095
* 19 Chrysene-d12	=====	240	6.473	6.473	(1.000)	517389	40.0000	
* 24 Perylene-d12	=====	264	7.552	7.552	(1.000)	487492	40.0000	(H)
2 Naphthalene	=====	128	2.503	2.503	(1.004)	310274	20.0000	21.2170(H)
3 2-Methylnaphthalene	=====	141	2.915	2.915	(1.169)	150366	20.0000	24.0645(H)
4 1-Methylnaphthalene	=====	142	2.968	2.968	(1.191)	199034	20.0000	20.6769(H)
5 1,1'-Biphenyl	=====	154	3.193	3.193	(1.281)	215126	20.0000	23.3615(H)
6 Acenaphthylene	=====	152	3.433	3.433	(0.974)	312247	20.0000	22.0993
8 Acenaphthene	=====	154	3.540	3.540	(1.005)	169836	20.0000	19.8280(H)
9 Dibenzofuran	=====	168	3.647	3.647	(1.035)	238515	20.0000	21.6272(H)
10 Fluorene	=====	166	3.850	3.850	(1.092)	179256	20.0000	21.6652(H)
12 Phenanthrene	=====	178	4.480	4.480	(1.004)	251727	20.0000	20.2725
13 Anthracene	=====	178	4.512	4.512	(1.011)	276628	20.0000	21.6893
16 Fluoranthene	=====	202	5.340	5.340	(1.196)	293153	20.0000	23.1685
17 Pyrene	=====	202	5.500	5.500	(0.850)	296534	20.0000	20.7817
18 Benzo(a)anthracene	=====	228	6.467	6.467	(0.999)	270485	20.0000	19.2427
20 Chrysene	=====	228	6.489	6.489	(1.002)	266526	20.0000	18.3002(H)
21 Benzo(b)fluoranthene	=====	252	7.279	7.279	(0.964)	252249	20.0000	17.7849(H)
22 Benzo(k)fluoranthene	=====	252	7.301	7.301	(0.967)	319488	20.0000	21.1772(H)
23 Benzo(a)pyrene	=====	252	7.509	7.509	(0.994)	243095	20.0000	21.2354(H)
25 Indeno(1,2,3-cd)pyrene	=====	276	8.294	8.294	(1.098)	186459	20.0000	17.3131(MH)
26 Dibenzo(a,h)anthracene	=====	278	8.321	8.321	(1.102)	203684	20.0000	18.0548(H)
27 Benzo(g,h,i)perylene	=====	276	8.503	8.503	(1.126)	204917	20.0000	21.9686(H)

QC Flag Legend

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

Data File: 1AE30006.D

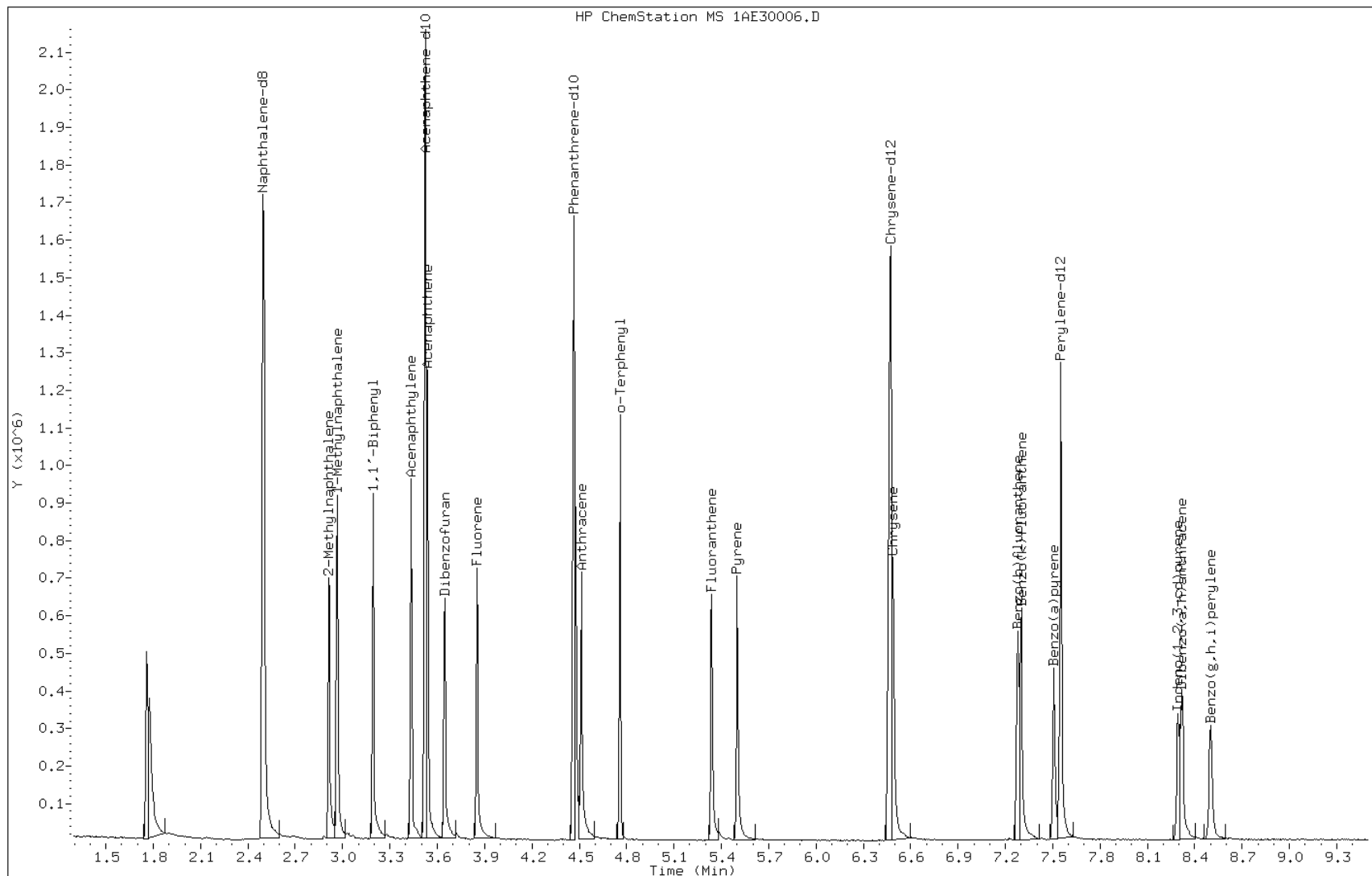
Date: 30-MAY-2013 15:07

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1559459

Operator: TP



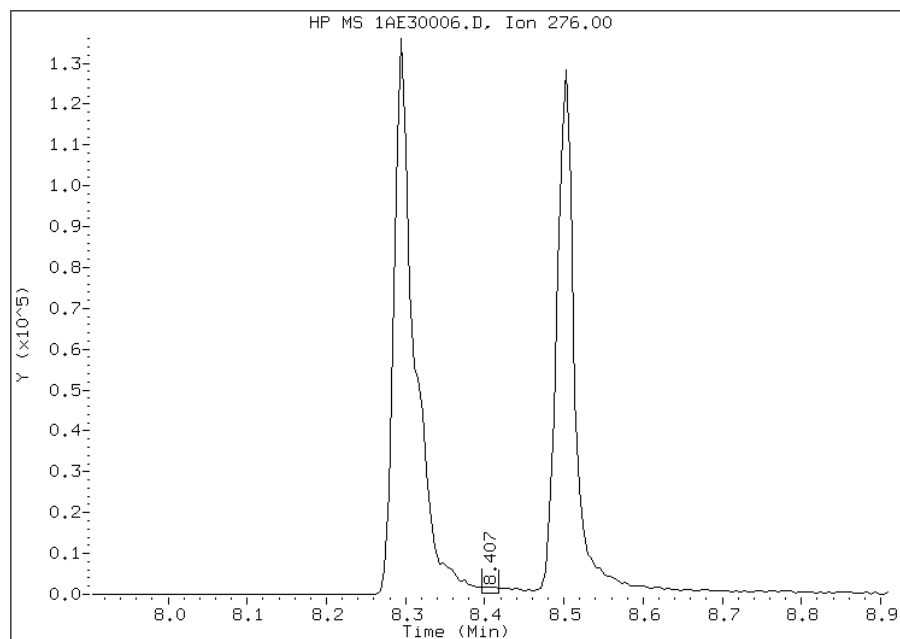


# Manual Integration Report

Data File: 1AE30006.D  
Inj. Date and Time: 30-MAY-2013 15:07  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/31/2013

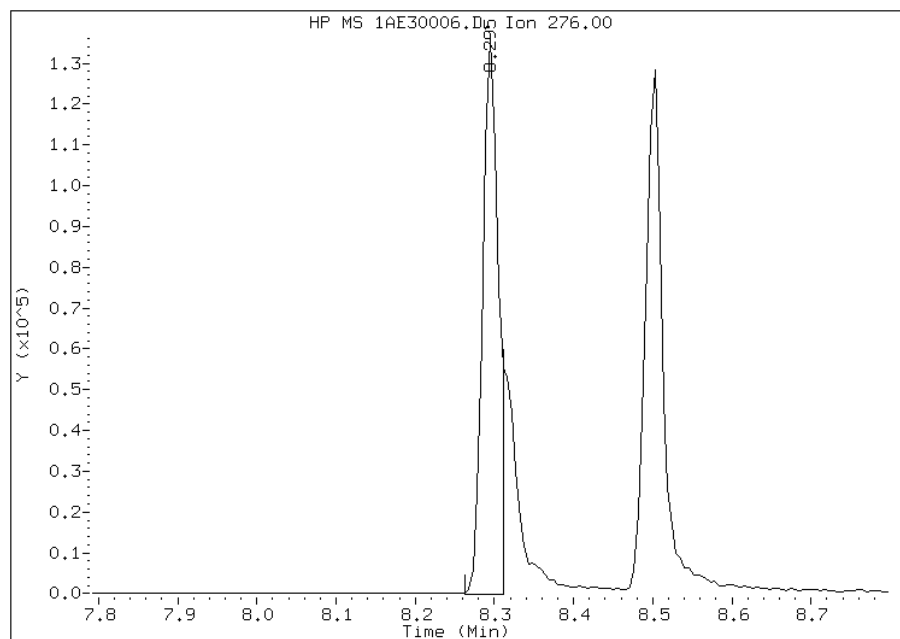
## Processing Integration Results

RT: 8.41  
Response: 2052  
Amount: 14  
Conc: 14



## Manual Integration Results

RT: 8.29  
Response: 186459  
Amount: 17  
Conc: 17



Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:40  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30007.D  
 Lab Smp Id: IC-1559454  
 Inj Date : 30-MAY-2013 15:23  
 Operator : TP  
 Smp Info : IC-1559454  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30007.D  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 15:07 Cal File: 1AE30006.D  
 Als bottle: 4 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	2.496	2.493	(1.000)	653500	40.0000	
* 7 Acenaphthene-d10	164	3.522	3.524	(1.000)	385846	40.0000	
* 11 Phenanthrene-d10	188	4.462	4.464	(1.000)	543775	40.0000	
\$ 15 o-Terphenyl	230	4.756	4.758	(1.066)	1522	0.20000	0.2050
* 19 Chrysene-d12	240	6.465	6.473	(1.000)	419728	40.0000	
* 24 Perylene-d12	264	7.544	7.552	(1.000)	408807	40.0000	
2 Naphthalene	128	2.507	2.503	(1.004)	2564	0.20000	0.1821(TQ)
3 2-Methylnaphthalene	141	2.918	2.915	(1.169)	704	0.20000	0.2336(M)
4 1-Methylnaphthalene	142	2.971	2.968	(1.190)	1661	0.20000	0.1686
5 1,1'-Biphenyl	154	3.196	3.193	(1.280)	1024	0.20000	0.7157(TQ)
6 Acenaphthylene	152	3.436	3.433	(0.976)	2453	0.20000	1.5932(QM)
8 Acenaphthene	154	3.538	3.540	(1.005)	1750	0.20000	0.1966
9 Dibenzofuran	168	3.650	3.647	(1.036)	1599	0.20000	0.9183(M)
10 Fluorene	166	3.858	3.850	(1.096)	924	0.20000	1.0837(TQ)
12 Phenanthrene	178	4.478	4.480	(1.004)	2262	0.20000	0.1940
13 Anthracene	178	4.515	4.512	(1.012)	2118	0.20000	0.1644(M)
16 Fluoranthene	202	5.338	5.340	(1.196)	1742	0.20000	0.2266(T)
17 Pyrene	202	5.498	5.500	(0.850)	2123	0.20000	0.1750
18 Benzo(a)anthracene	228	6.460	6.467	(0.999)	2694	0.20000	0.2389
20 Chrysene	228	6.481	6.489	(1.002)	2870	0.20000	0.2325
21 Benzo(b)fluoranthene	252	7.293	7.279	(0.967)	2336	0.20000	1.7337(M)
22 Benzo(k)fluoranthene	252	7.314	7.301	(0.970)	915	0.20000	0.1955(M)
23 Benzo(a)pyrene	252	7.507	7.509	(0.995)	1866	0.20000	0.1940
25 Indeno(1,2,3-cd)pyrene	276	8.292	8.294	(1.099)	1327	0.20000	0.1839(TM)
26 Dibenzo(a,h)anthracene	278	8.303	8.321	(1.101)	1342	0.20000	0.2737(TM)
27 Benzo(g,h,i)perylene	276	8.490	8.503	(1.125)	1647	0.20000	0.3064(TM)

QC Flag Legend

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

Data File: 1AE30007.D

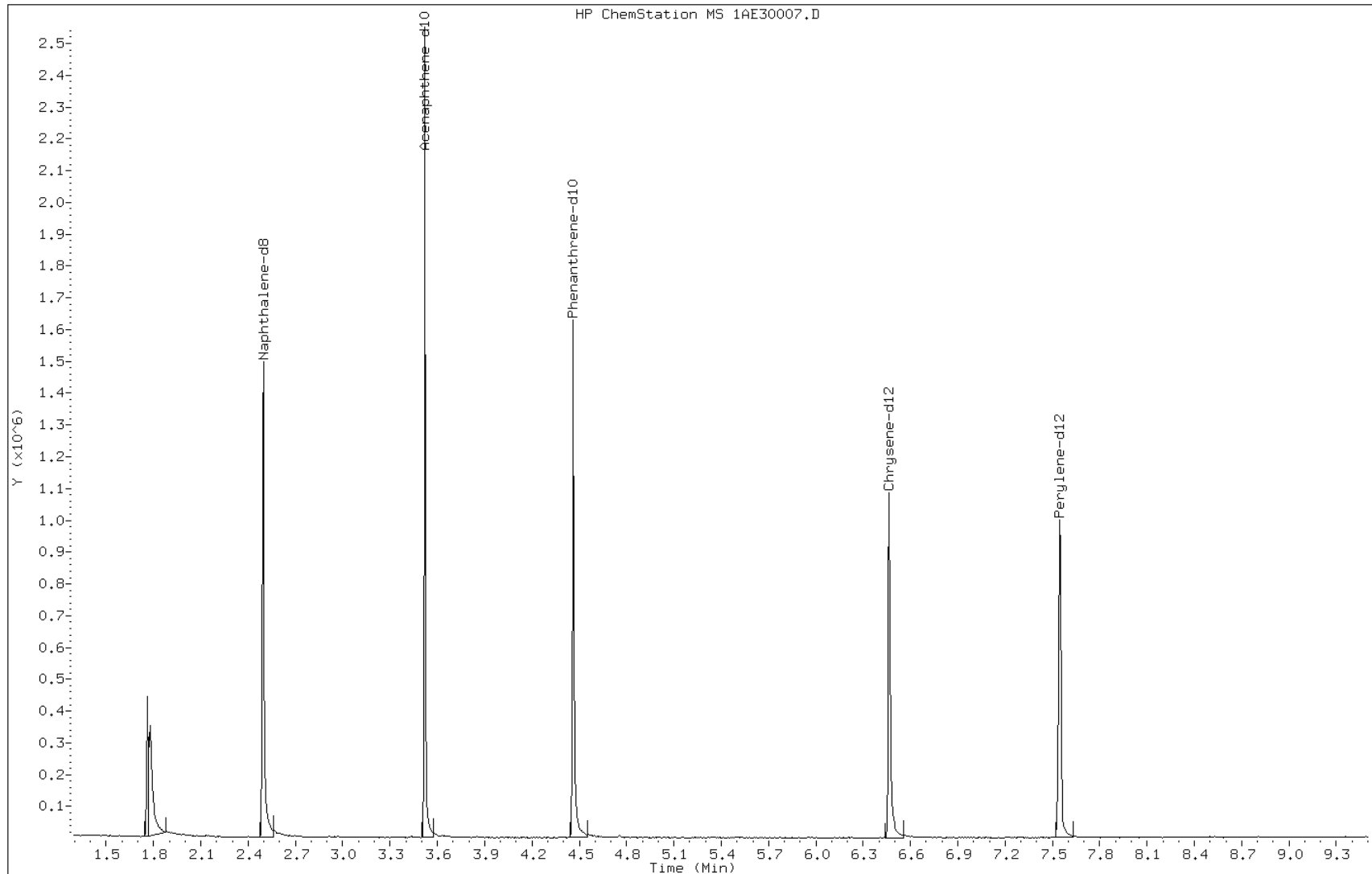
Date: 30-MAY-2013 15:23

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559454

Operator: TP

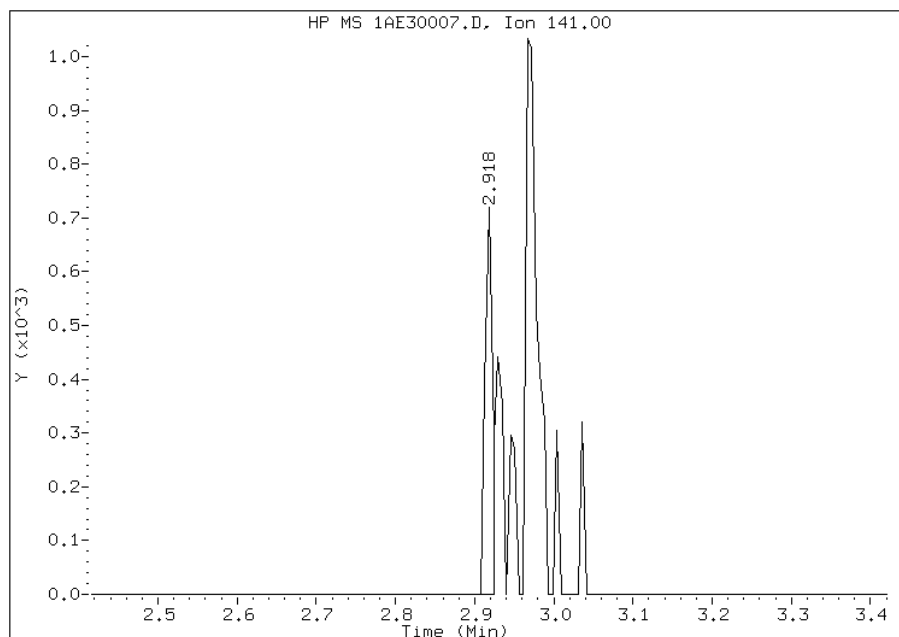


# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 3 2-Methylnaphthalene  
CAS #: 91-57-6  
Report Date: 06/03/2013

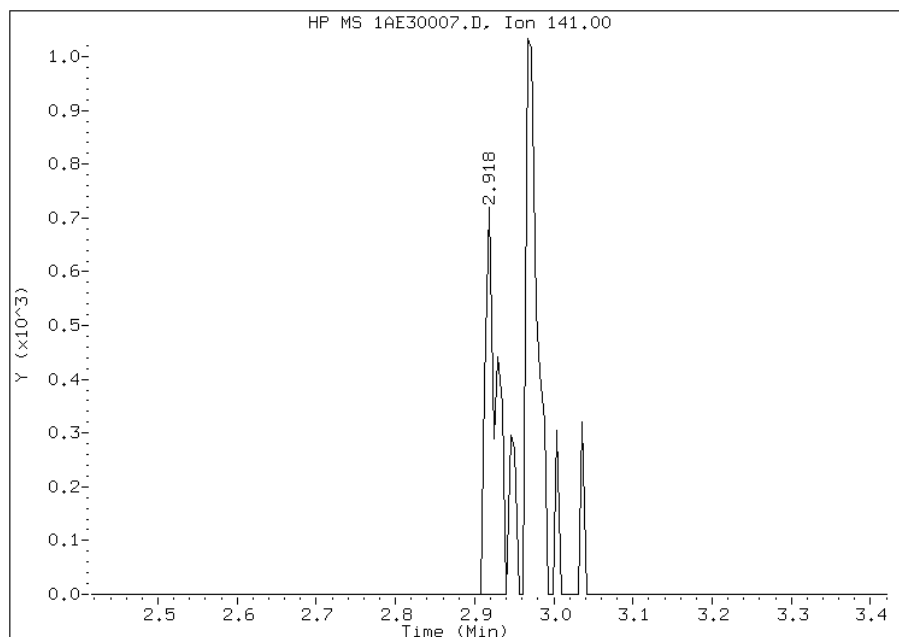
## Processing Integration Results

RT: 2.92  
Response: 448  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 2.92  
Response: 704  
Amount: 0  
Conc: 0



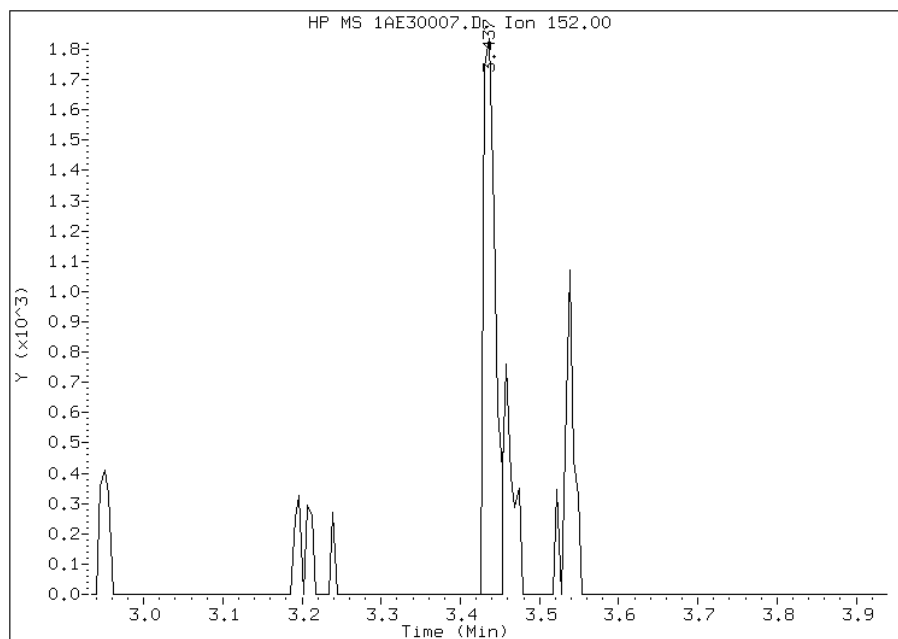
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:09  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 6 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 06/03/2013

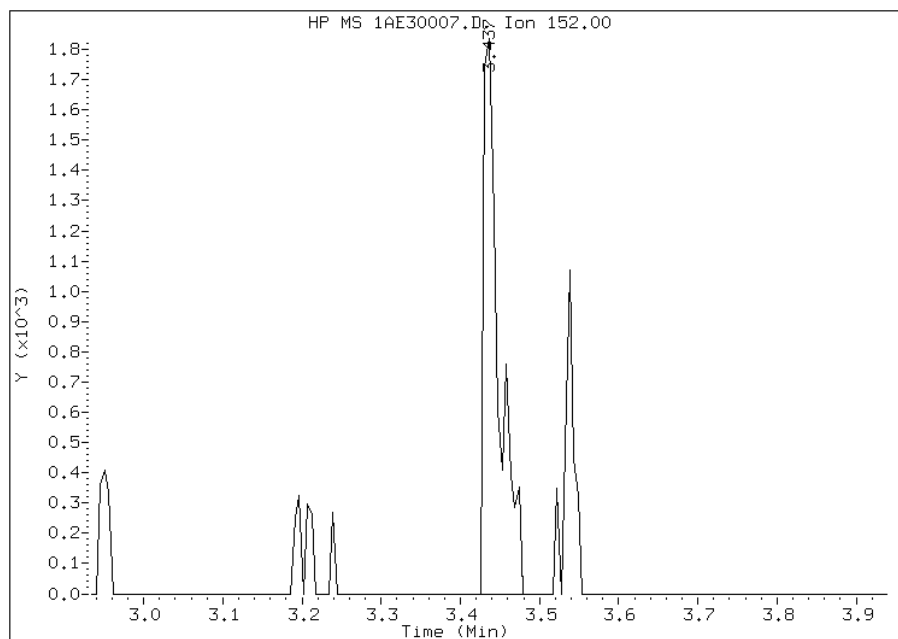
## Processing Integration Results

RT: 3.44  
Response: 1873  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 3.44  
Response: 2453  
Amount: 2  
Conc: 2



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:09  
Manual Integration Reason: Baseline Event

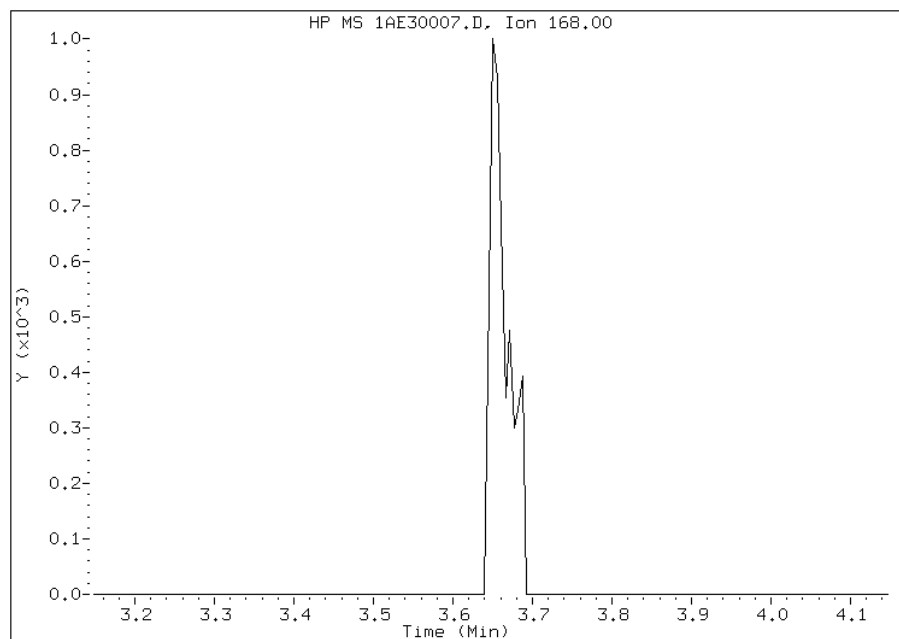
# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

## Processing Integration Results

Not Detected

Expected RT: 3.65



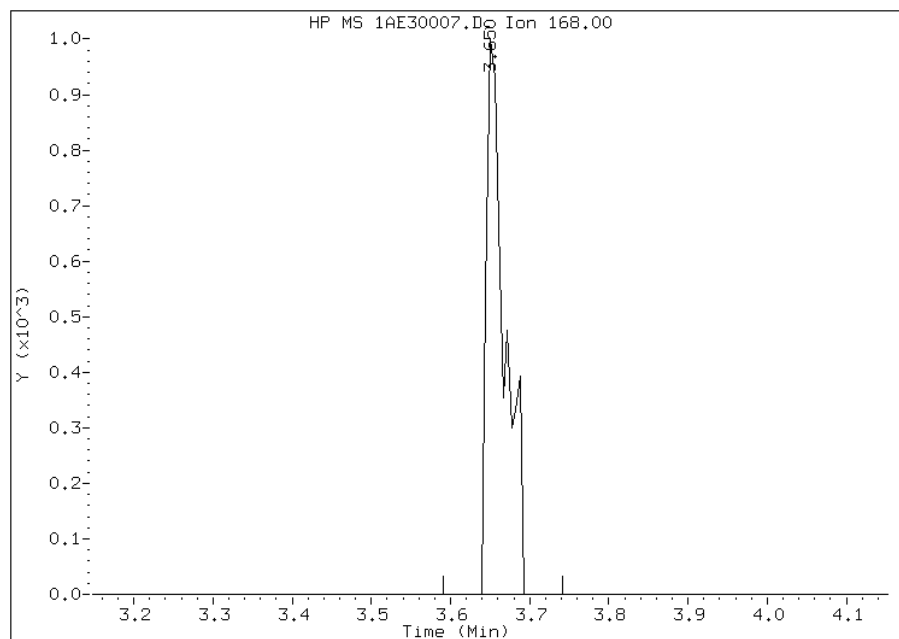
## Manual Integration Results

RT: 3.65

Response: 1599

Amount: 1

Conc: 1



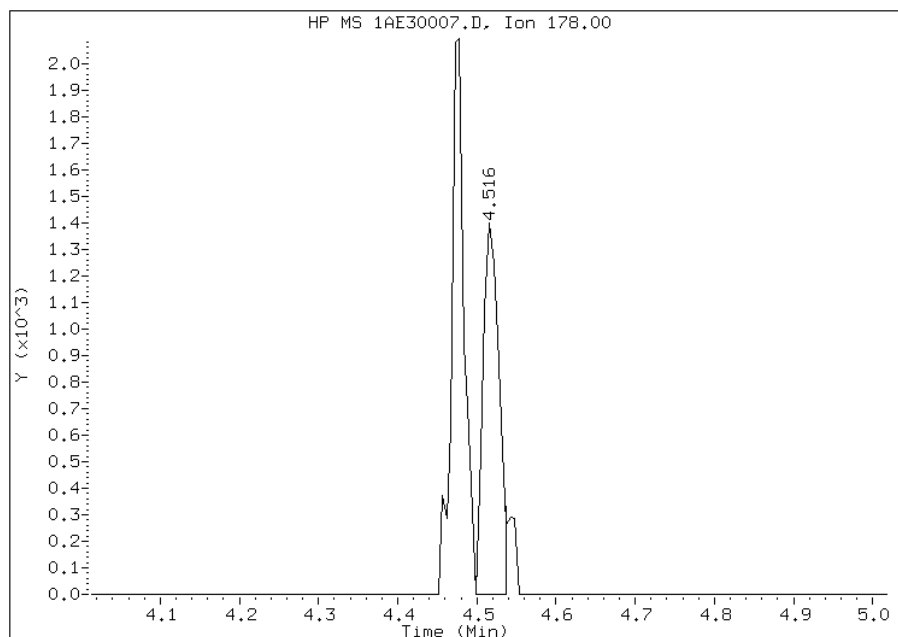
Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:44  
Manual Integration Reason: Analyte not Identified by the Data System

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Anthracene  
CAS #: 120-12-7  
Report Date: 06/03/2013

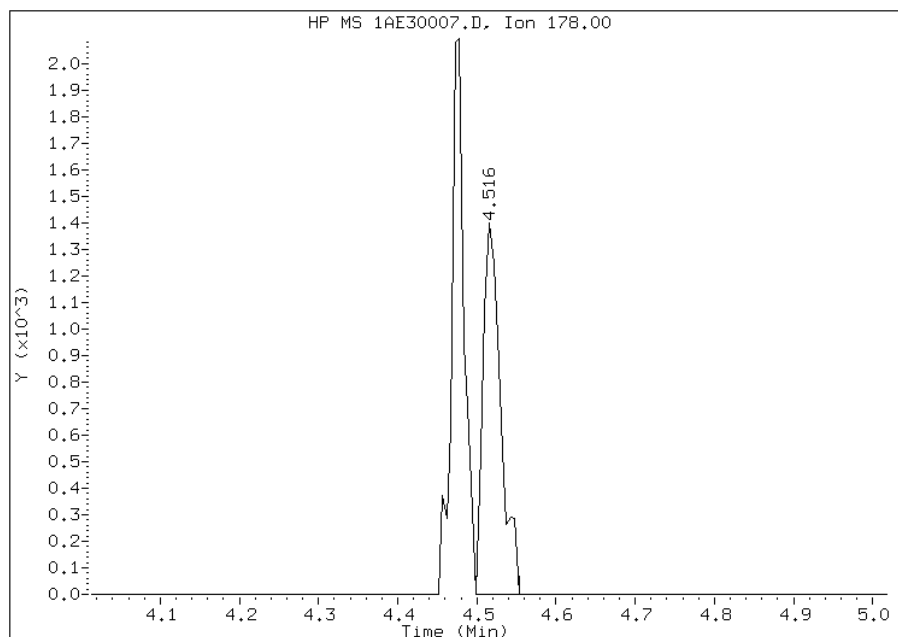
## Processing Integration Results

RT: 4.52  
Response: 1933  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 4.52  
Response: 2118  
Amount: 0  
Conc: 0



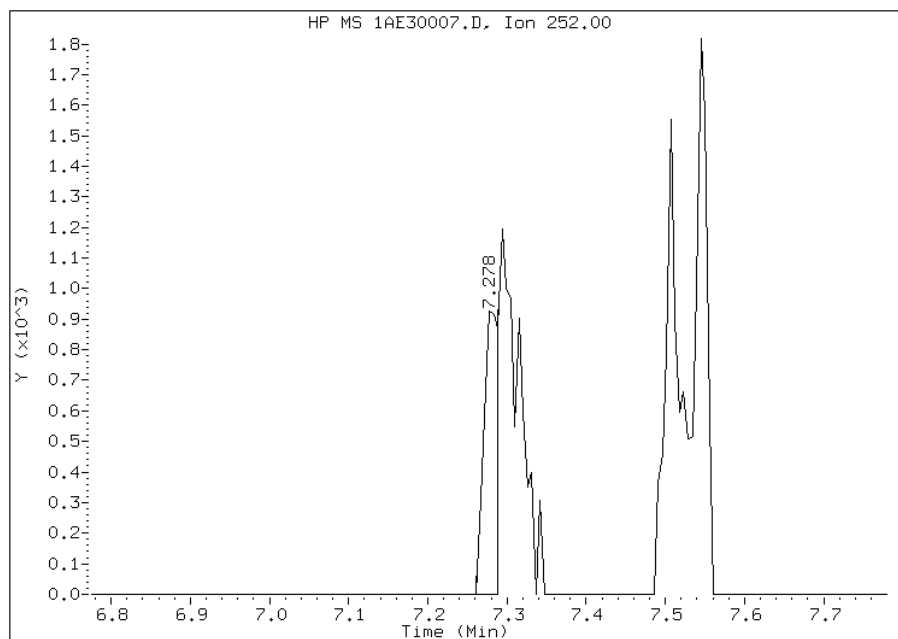
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:09  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 21 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 06/03/2013

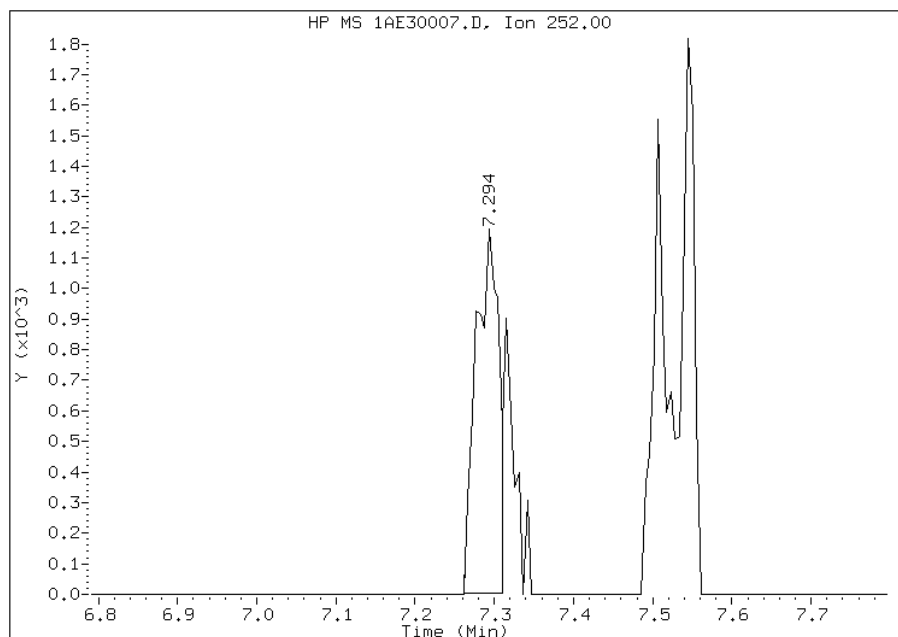
## Processing Integration Results

RT: 7.28  
Response: 1156  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 7.29  
Response: 2336  
Amount: 2  
Conc: 2



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:09  
Manual Integration Reason: Baseline Event

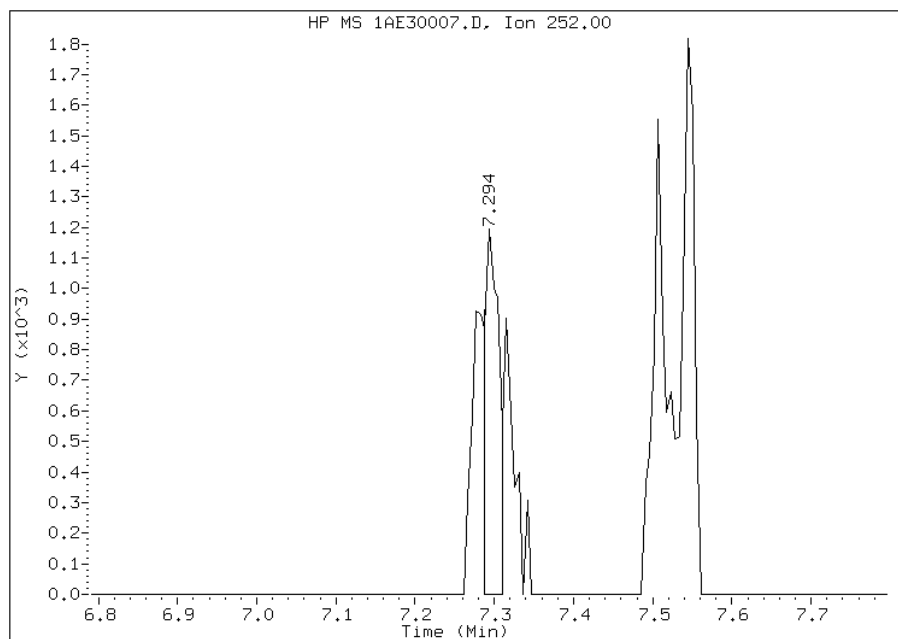


# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/03/2013

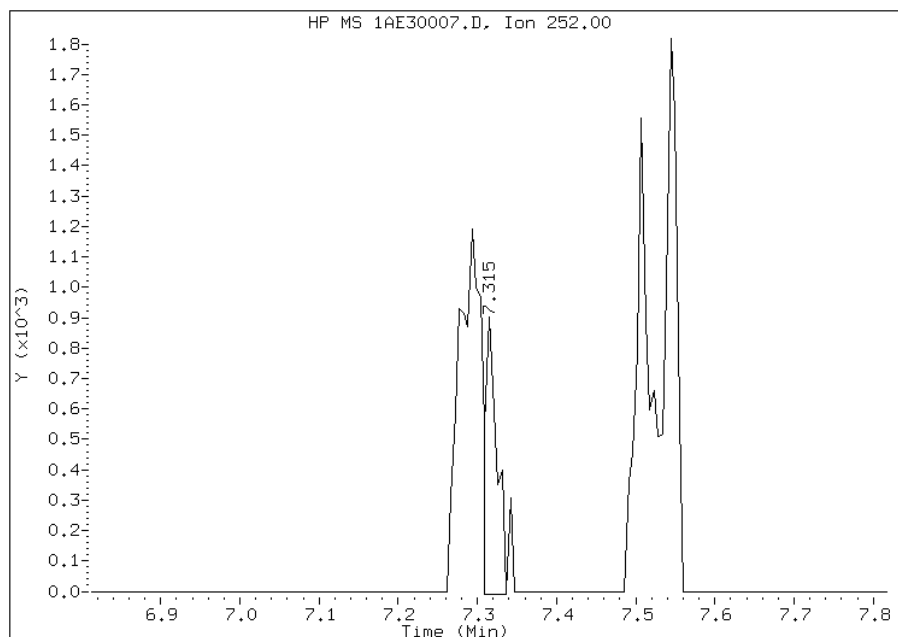
## Processing Integration Results

RT: 7.29  
Response: 1469  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 7.31  
Response: 915  
Amount: 0  
Conc: 0



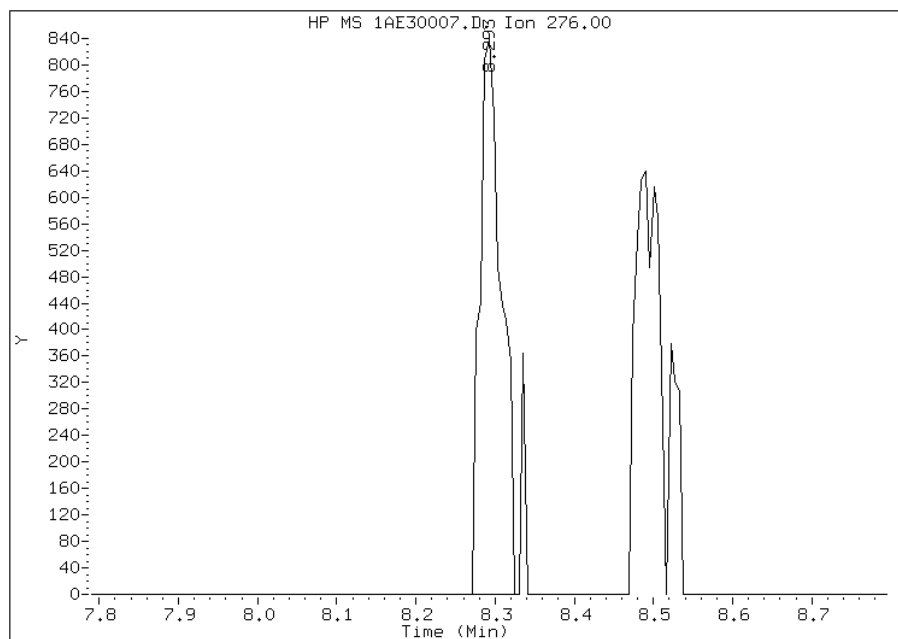
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:09  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

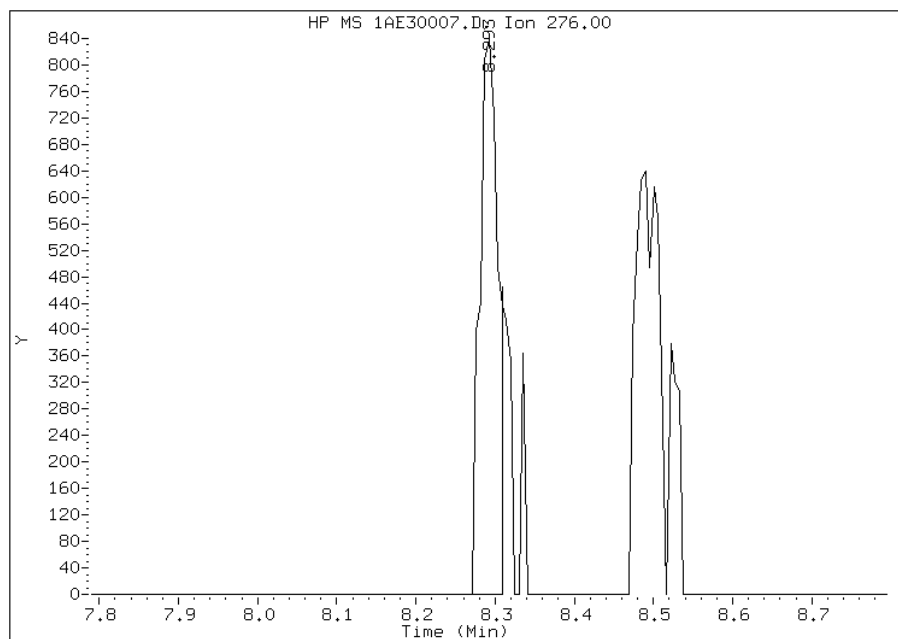
## Processing Integration Results

RT: 8.29  
Response: 1573  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 8.29  
Response: 1327  
Amount: 0  
Conc: 0



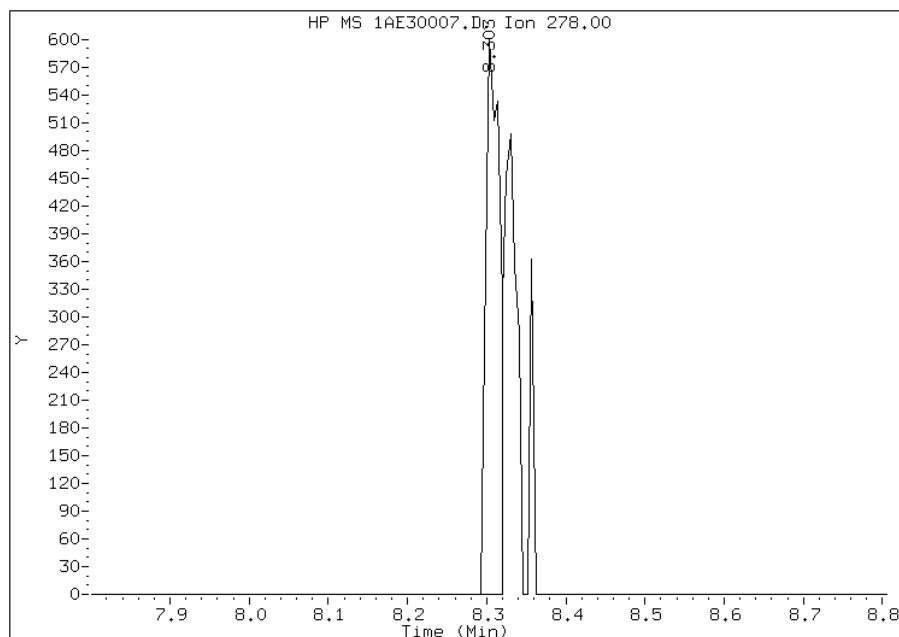
Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:44  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 06/03/2013

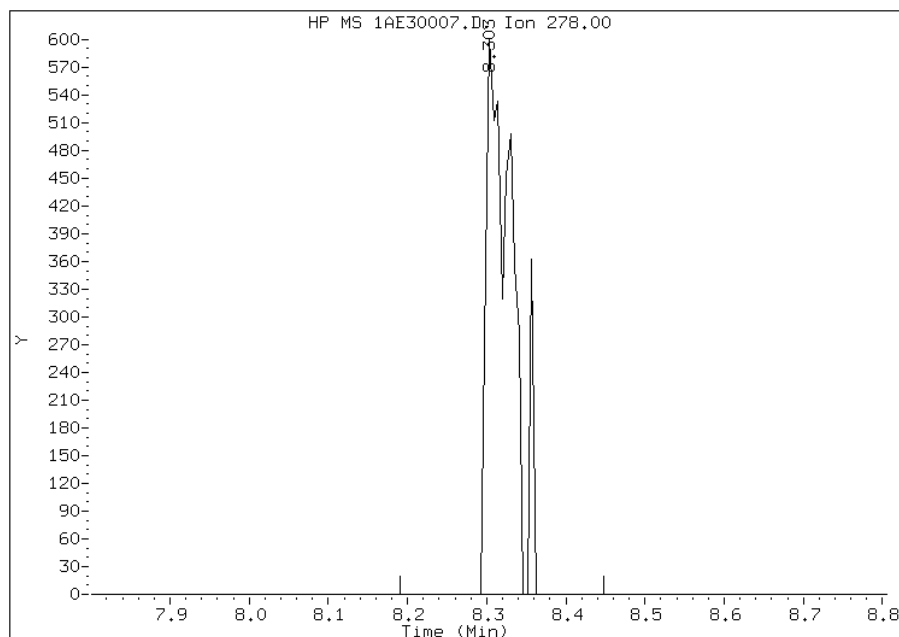
## Processing Integration Results

RT: 8.30  
Response: 717  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 8.30  
Response: 1342  
Amount: 0  
Conc: 0



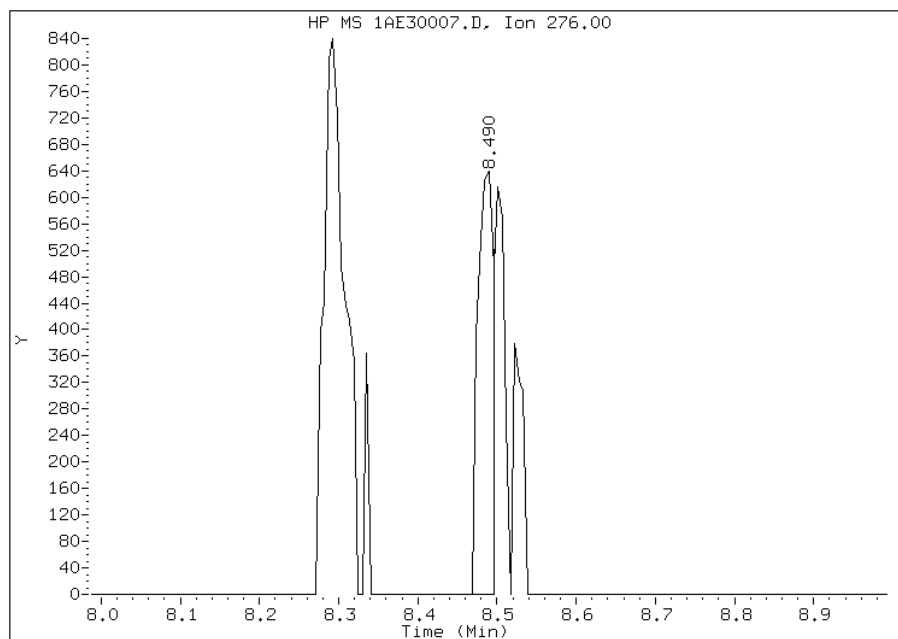
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:10  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30007.D  
Inj. Date and Time: 30-MAY-2013 15:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

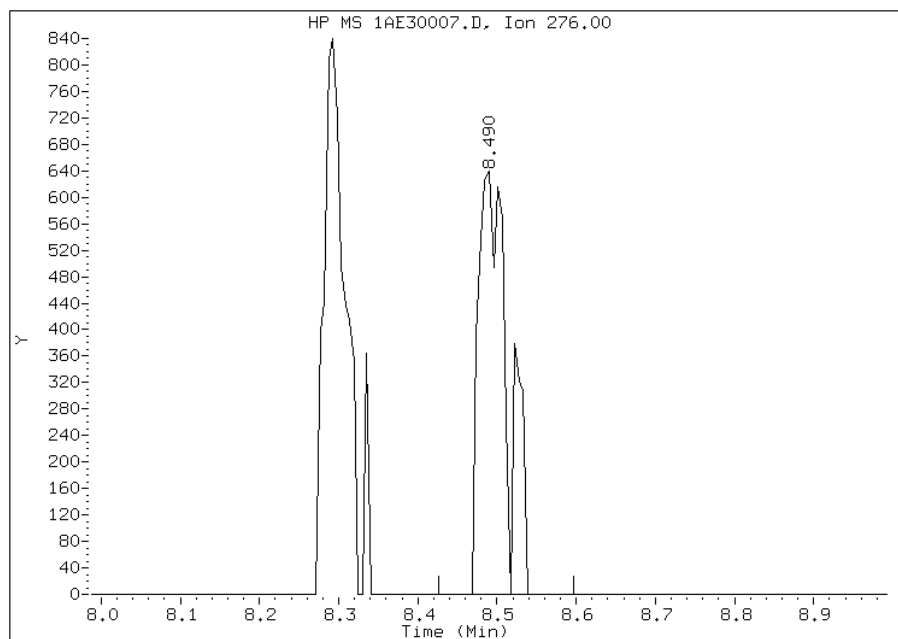
## Processing Integration Results

RT: 8.49  
Response: 860  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 8.49  
Response: 1647  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:10  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30008.D  
 Lab Smp Id: IC-1559455  
 Inj Date : 30-MAY-2013 15:38  
 Operator : TP  
 Smp Info : IC-1559455  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30008.D  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 15:23 Cal File: 1AE30007.D  
 Als bottle: 5 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.495	2.493	(1.000)	684178	40.0000	
* 7 Acenaphthene-d10	164	3.521	3.524	(1.000)	384013	40.0000	
* 11 Phenanthrene-d10	188	4.461	4.464	(1.000)	558115	40.0000	
\$ 15 o-Terphenyl	230	4.755	4.758	(1.066)	6832	1.00000	0.8968
* 19 Chrysene-d12	240	6.465	6.473	(1.000)	472994	40.0000	
* 24 Perylene-d12	264	7.544	7.552	(1.000)	428426	40.0000	
2 Naphthalene	128	2.506	2.503	(1.004)	14247	1.00000	0.9667(M)
3 2-Methylnaphthalene	141	2.917	2.915	(1.169)	5113	1.00000	0.8029
4 1-Methylnaphthalene	142	2.965	2.968	(1.188)	9438	1.00000	0.9152(M)
5 1,1'-Biphenyl	154	3.195	3.193	(1.280)	10819	1.00000	1.5063(QM)
6 Acenaphthylene	152	3.436	3.433	(0.976)	14274	1.00000	2.1987(QM)
8 Acenaphthene	154	3.537	3.540	(1.005)	7971	1.00000	0.8999
9 Dibenzofuran	168	3.644	3.647	(1.035)	11288	1.00000	1.5653(M)
10 Fluorene	166	3.852	3.850	(1.094)	7832	1.00000	1.6859(QM)
12 Phenanthrene	178	4.472	4.480	(1.002)	11509	1.00000	0.9621
13 Anthracene	178	4.515	4.512	(1.012)	13529	1.00000	1.0235(M)
16 Fluoranthene	202	5.337	5.340	(1.196)	12939	1.00000	0.9937(M)
17 Pyrene	202	5.498	5.500	(0.850)	13782	1.00000	1.0086(M)
18 Benzo(a)anthracene	228	6.459	6.467	(0.999)	12350	1.00000	0.9719
20 Chrysene	228	6.481	6.489	(1.002)	14027	1.00000	1.0085
21 Benzo(b)fluoranthene	252	7.271	7.279	(0.964)	6478	1.00000	2.0304
22 Benzo(k)fluoranthene	252	7.293	7.301	(0.967)	15322	1.00000	1.1268(M)
23 Benzo(a)pyrene	252	7.501	7.509	(0.994)	10280	1.00000	1.0200(M)
25 Indeno(1,2,3-cd)pyrene	276	8.286	8.294	(1.098)	5971	1.00000	0.7899(M)
26 Dibenzo(a,h)anthracene	278	8.308	8.321	(1.101)	7153	1.00000	0.8467
27 Benzo(g,h,i)perylene	276	8.479	8.503	(1.124)	8363	1.00000	0.9838(M)

QC Flag Legend

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

Data File: 1AE30008.D

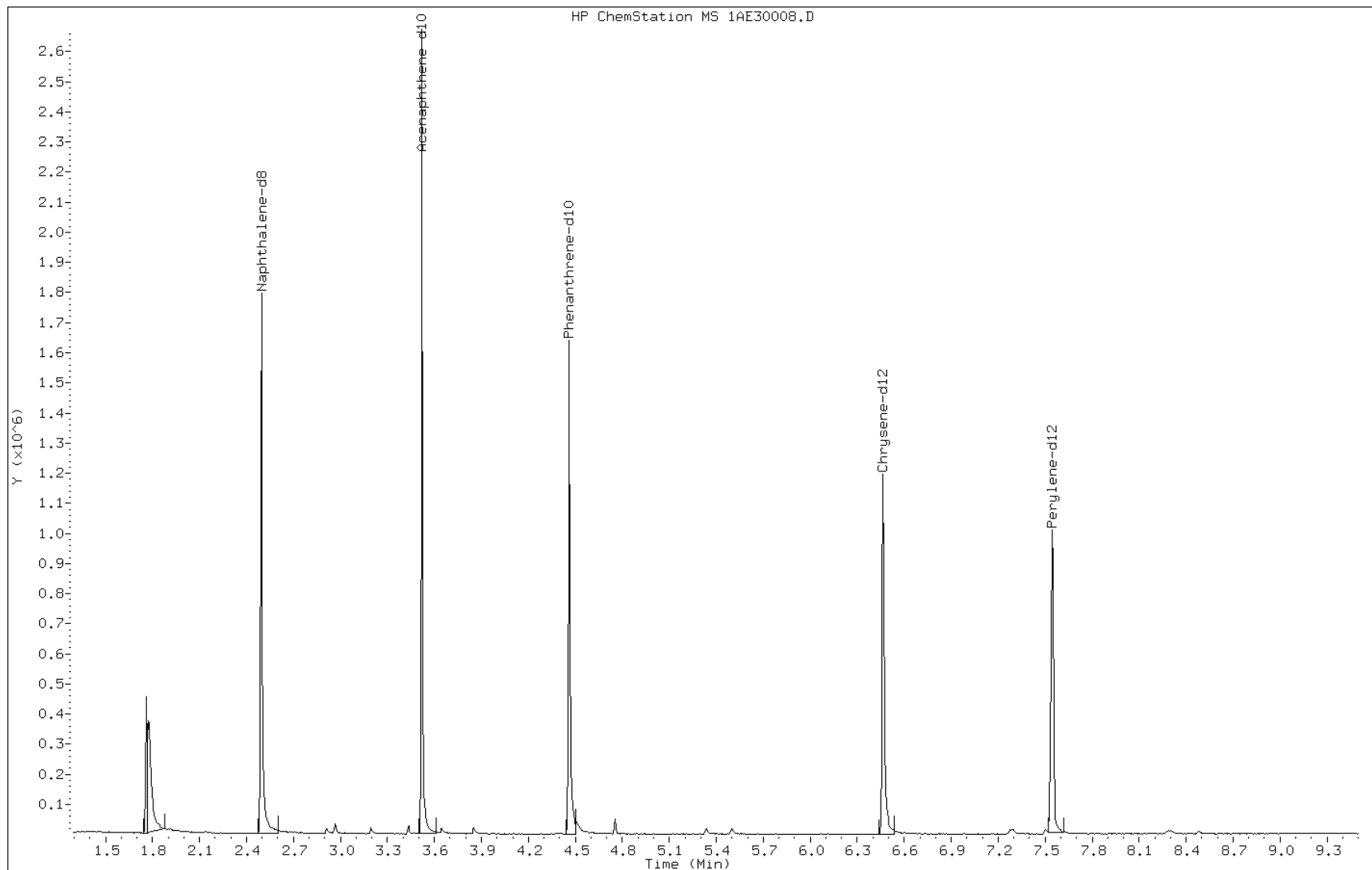
Date: 30-MAY-2013 15:38

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559455

Operator: TP

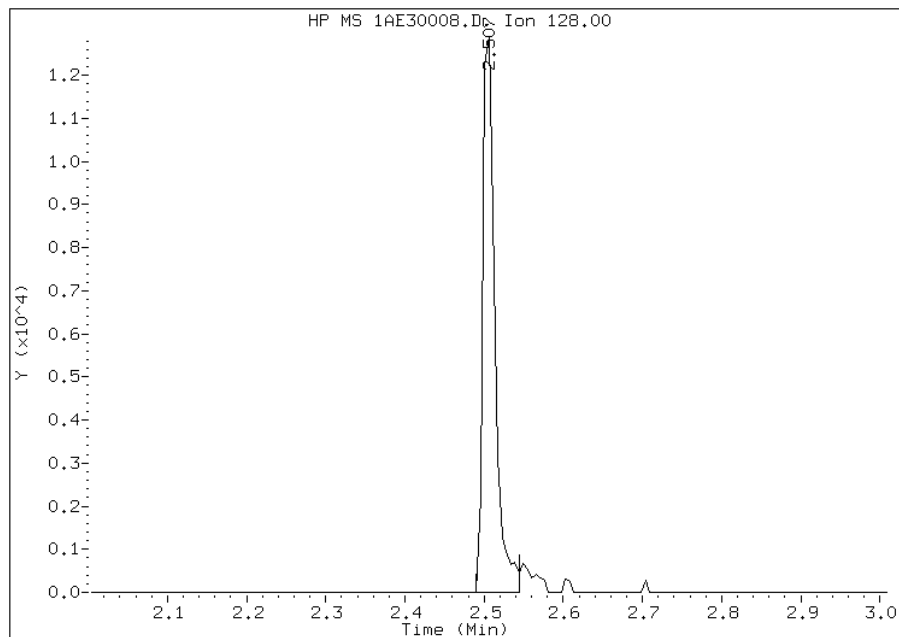


Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 2 Naphthalene  
CAS #: 91-20-3  
Report Date: 06/03/2013

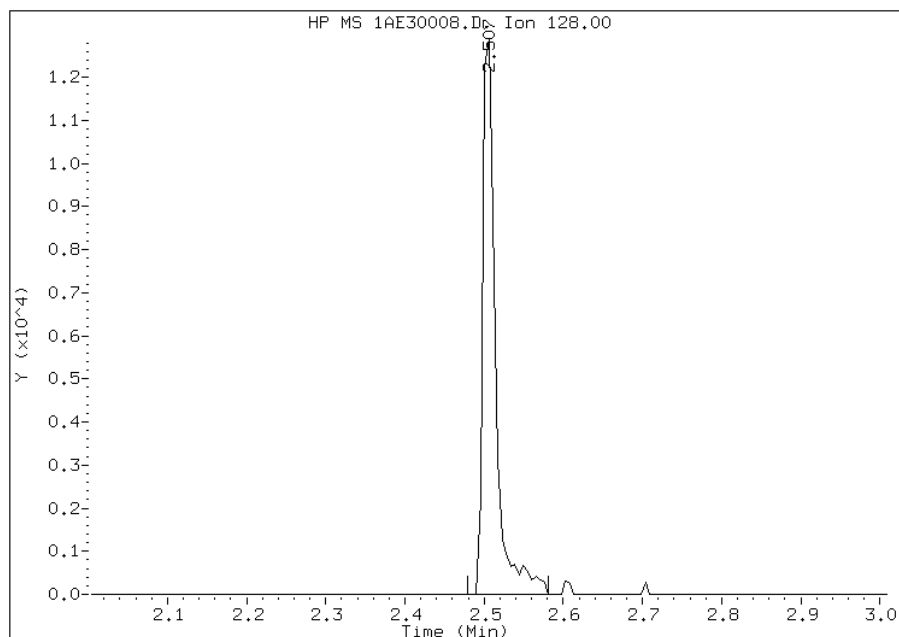
Processing Integration Results

RT: 2.51  
Response: 13410  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 2.51  
Response: 14247  
Amount: 1  
Conc: 1



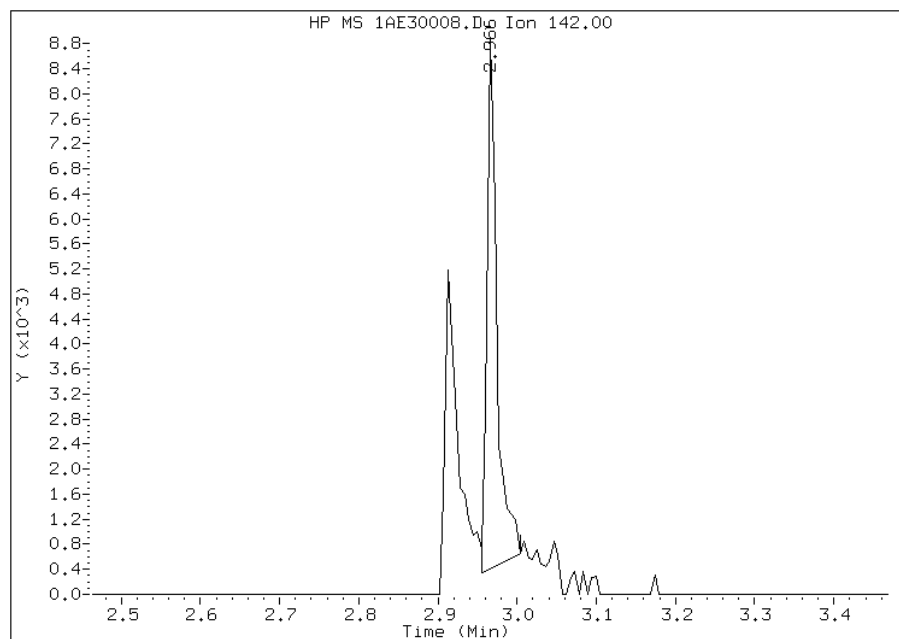
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:10  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

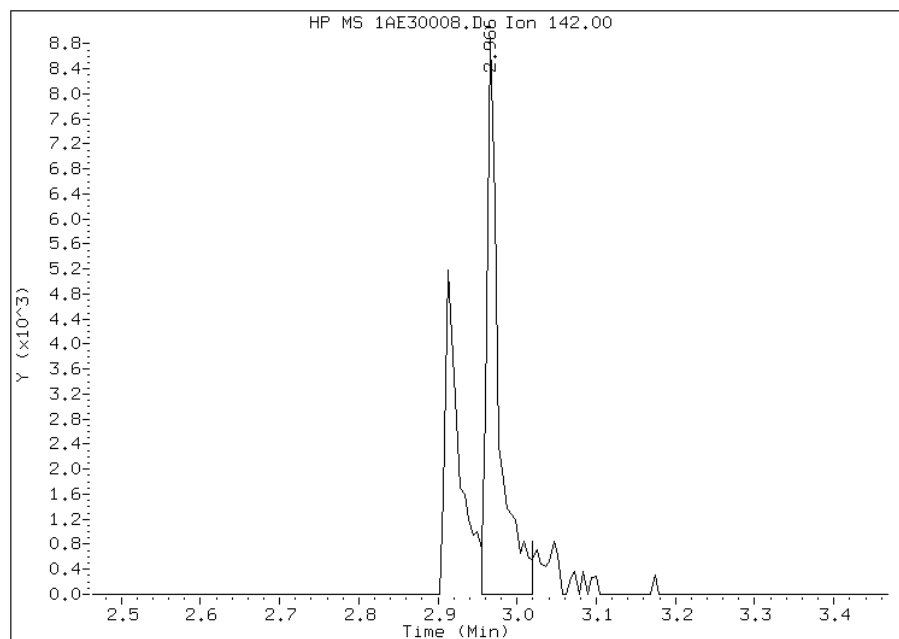
Processing Integration Results

RT: 2.97  
Response: 7217  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 2.97  
Response: 9438  
Amount: 1  
Conc: 1



Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:43  
Manual Integration Reason: Baseline Event

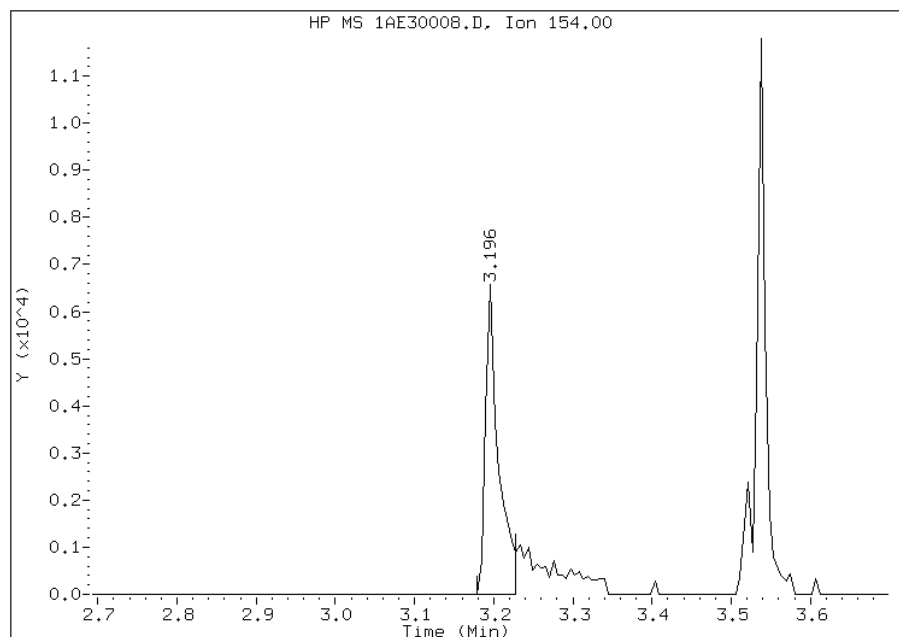


# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 5 1,1'-Biphenyl  
CAS #: 92-52-4  
Report Date: 06/03/2013

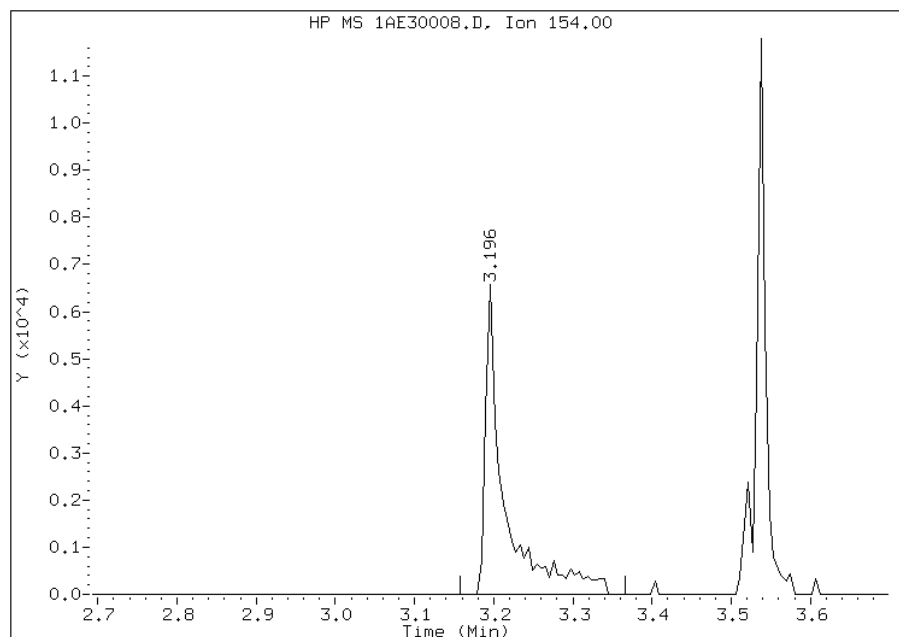
## Processing Integration Results

RT: 3.20  
Response: 7367  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 3.20  
Response: 10819  
Amount: 2  
Conc: 2



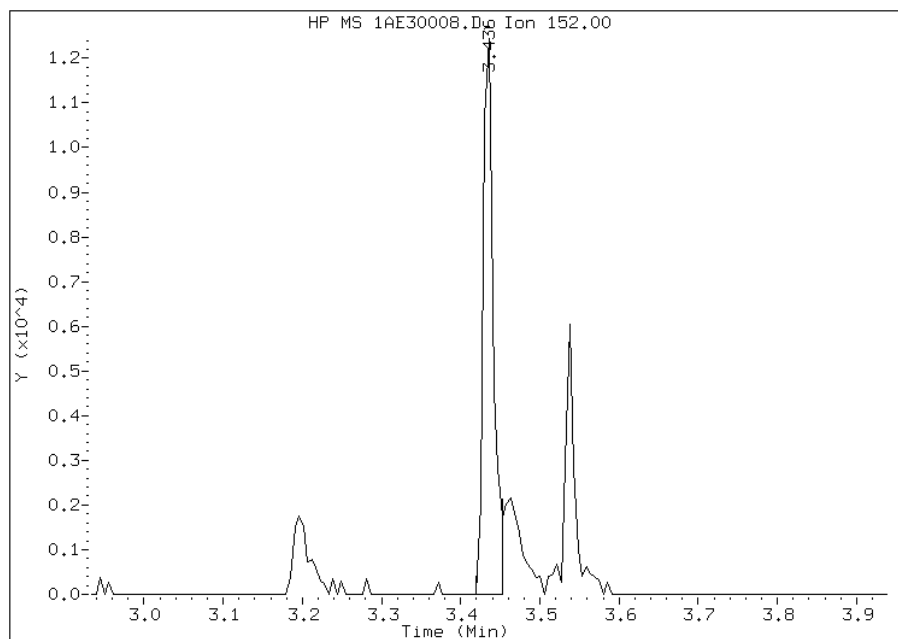
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:10  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 6 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 06/03/2013

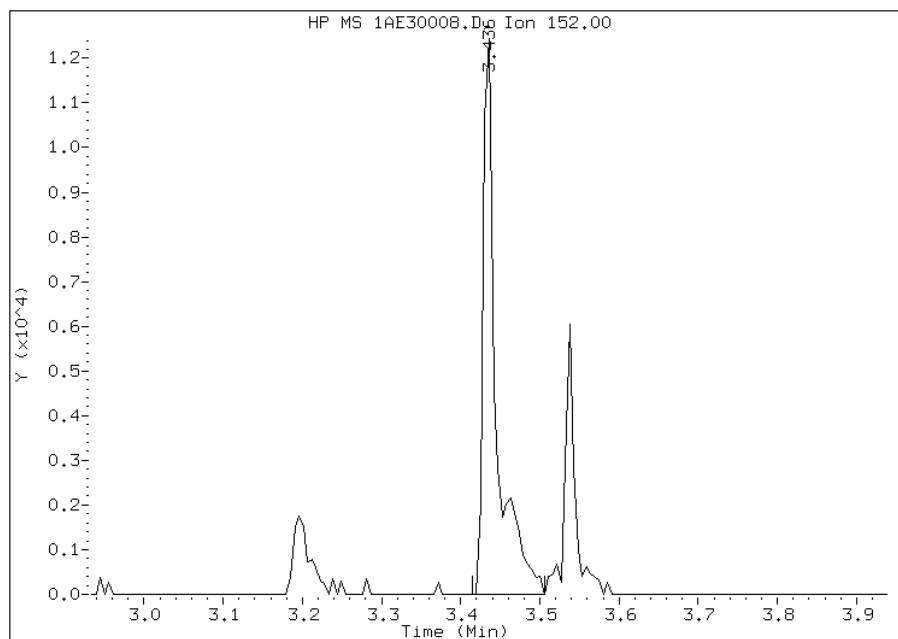
## Processing Integration Results

RT: 3.44  
Response: 10977  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 3.44  
Response: 14274  
Amount: 2  
Conc: 2



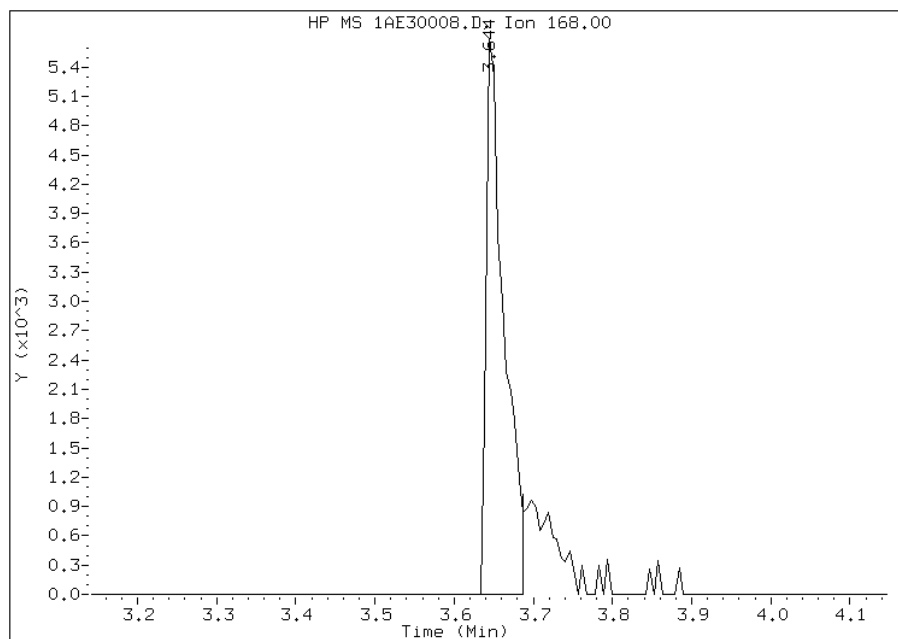
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:10  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

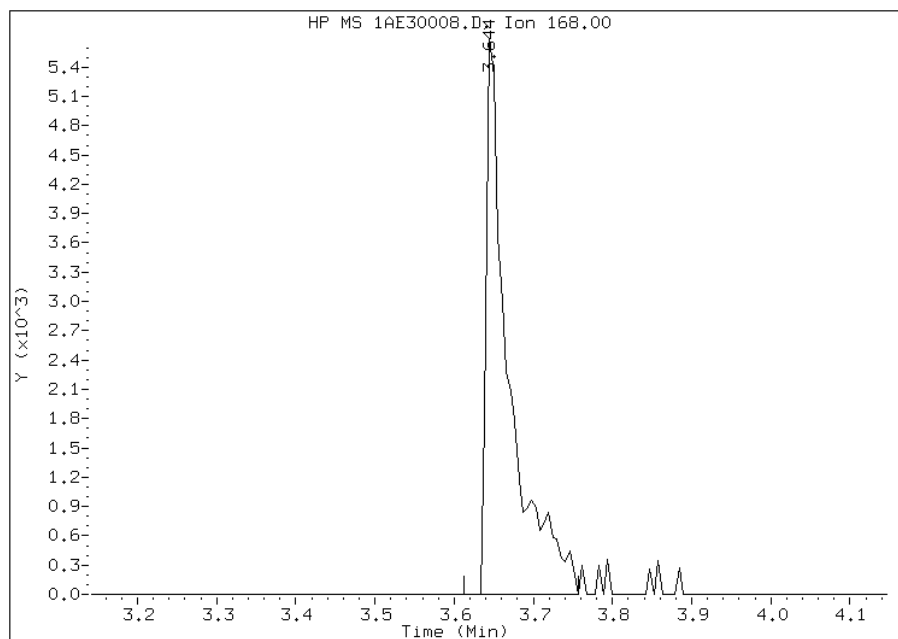
## Processing Integration Results

RT: 3.64  
Response: 8867  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 3.64  
Response: 11288  
Amount: 2  
Conc: 2



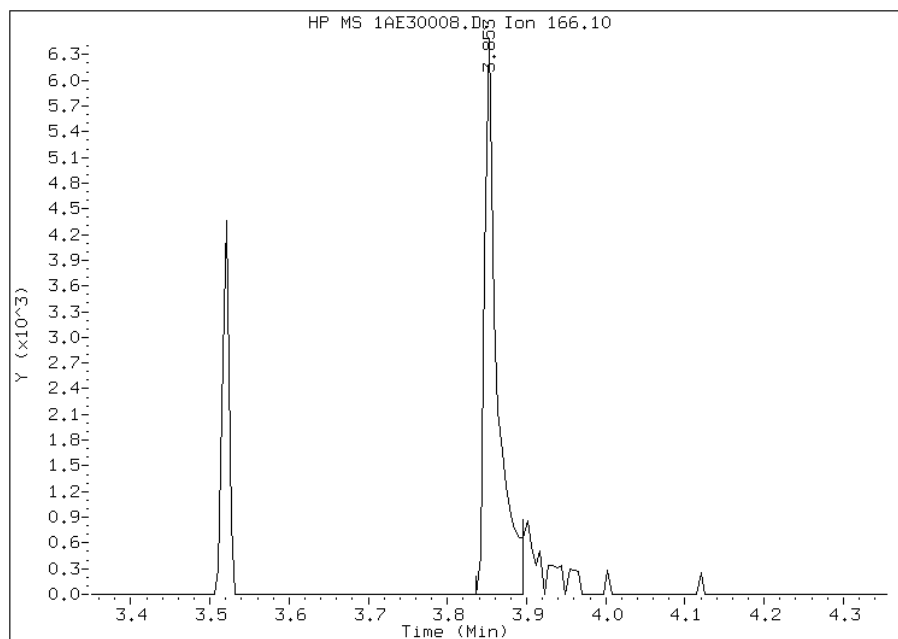
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 10 Fluorene  
CAS #: 86-73-7  
Report Date: 06/03/2013

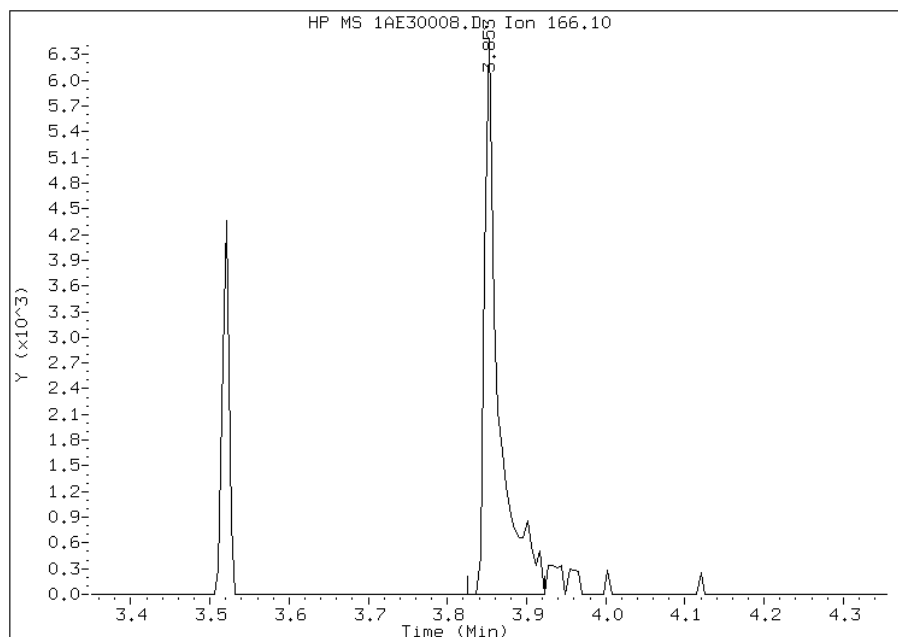
## Processing Integration Results

RT: 3.85  
Response: 7106  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 3.85  
Response: 7832  
Amount: 2  
Conc: 2



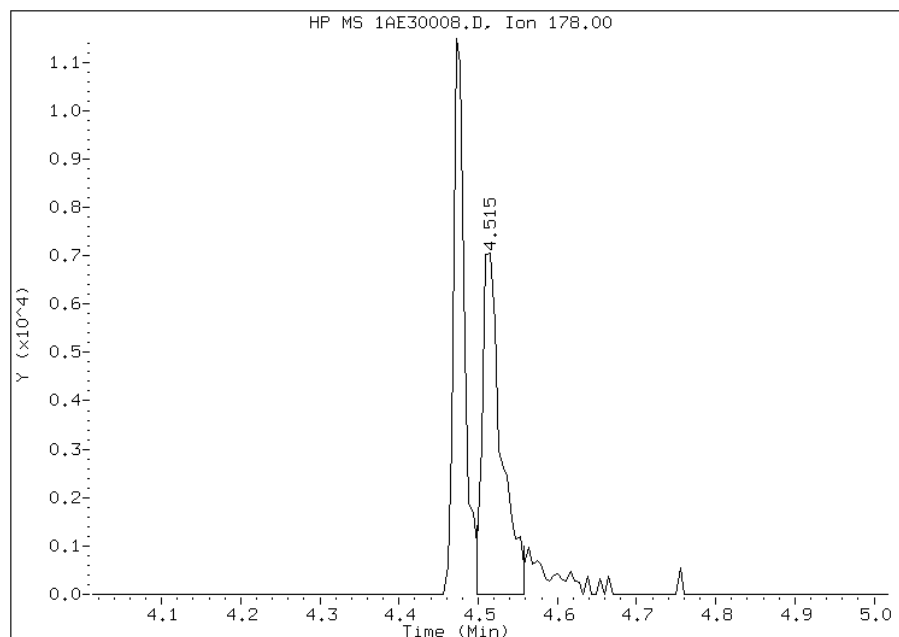
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Anthracene  
CAS #: 120-12-7  
Report Date: 06/03/2013

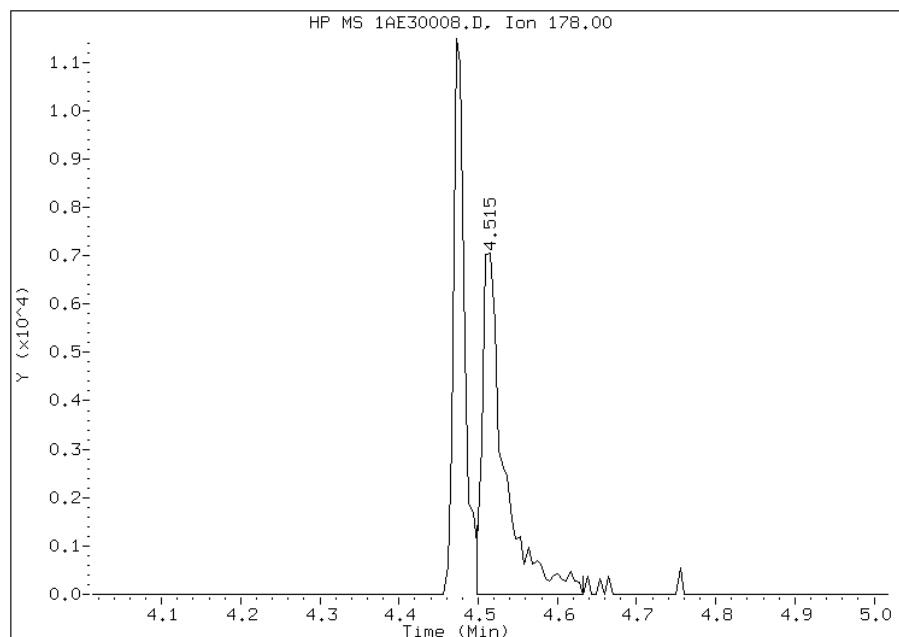
## Processing Integration Results

RT: 4.52  
Response: 11655  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 4.52  
Response: 13529  
Amount: 1  
Conc: 1



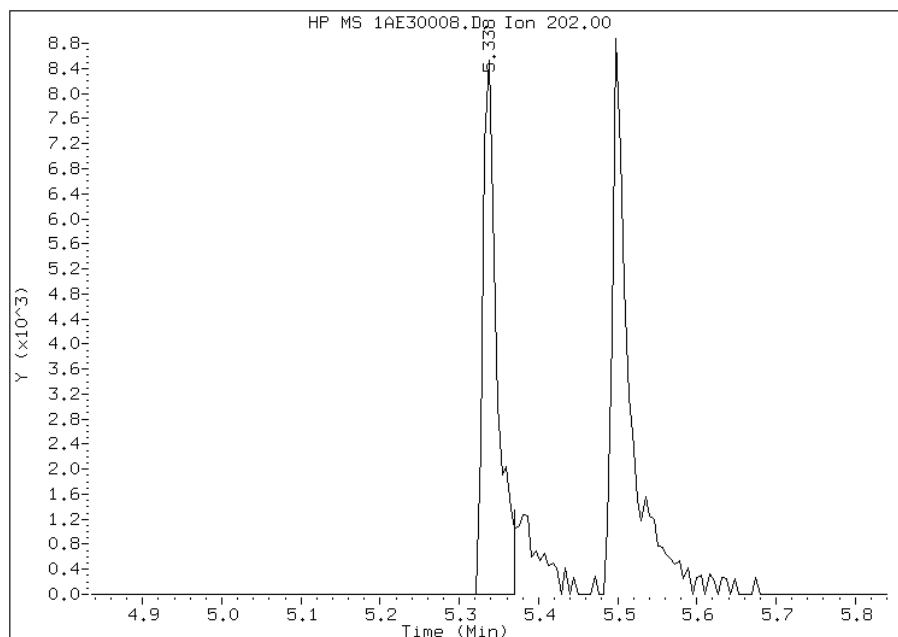
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 16 Fluoranthene  
CAS #: 206-44-0  
Report Date: 06/03/2013

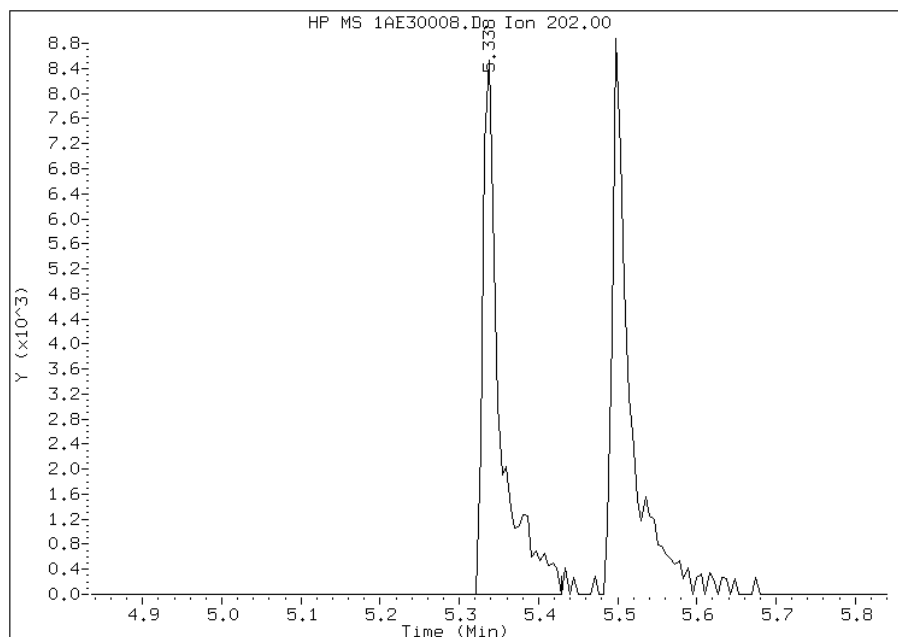
## Processing Integration Results

RT: 5.34  
Response: 10517  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 5.34  
Response: 12939  
Amount: 1  
Conc: 1



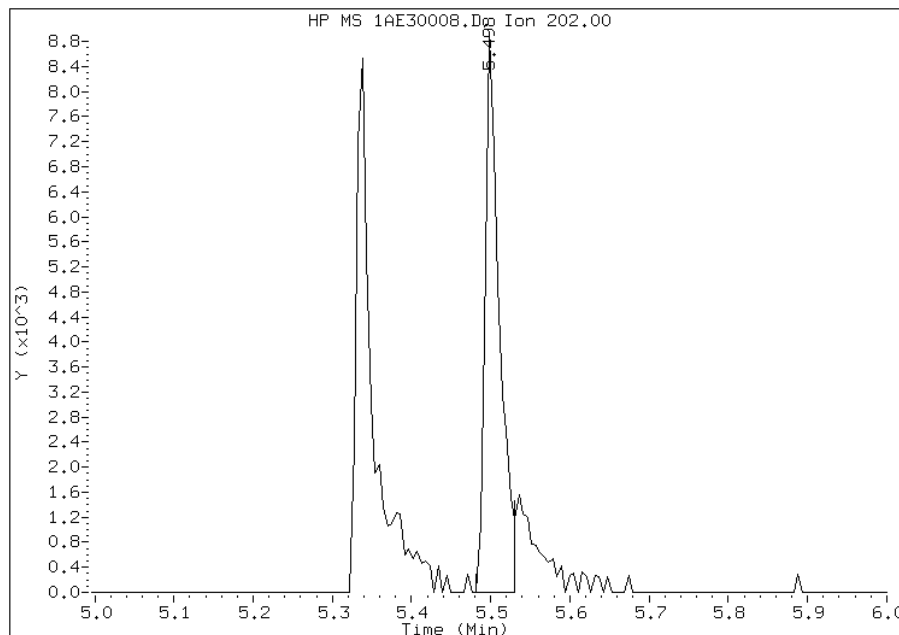
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 17 Pyrene  
CAS #: 129-00-0  
Report Date: 06/03/2013

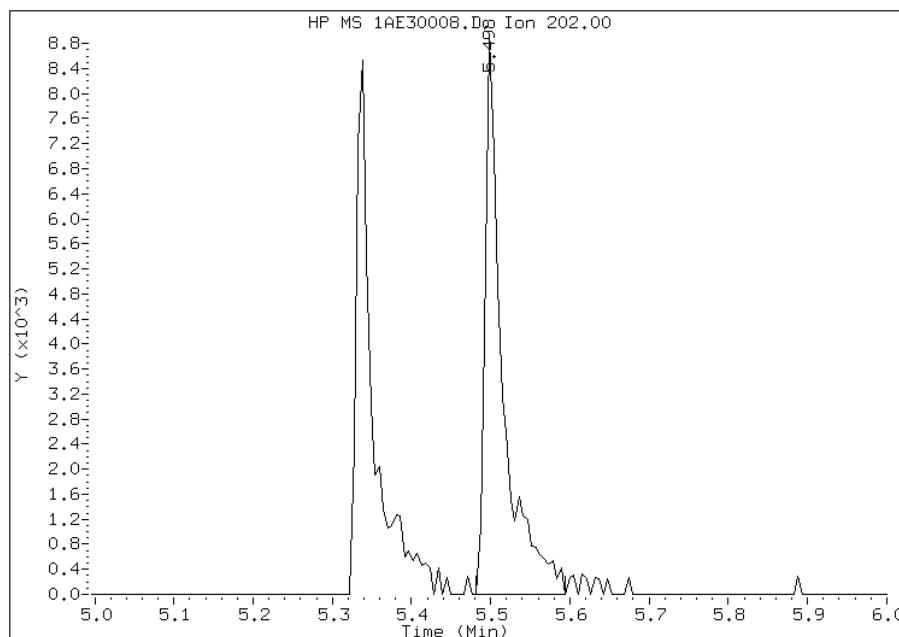
## Processing Integration Results

RT: 5.50  
Response: 11080  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 5.50  
Response: 13782  
Amount: 1  
Conc: 1



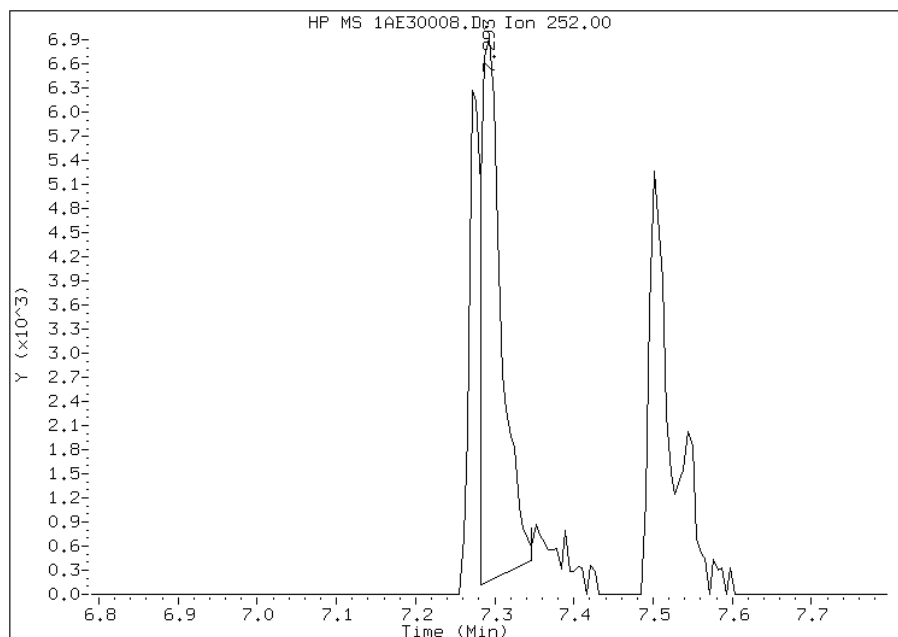
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/03/2013

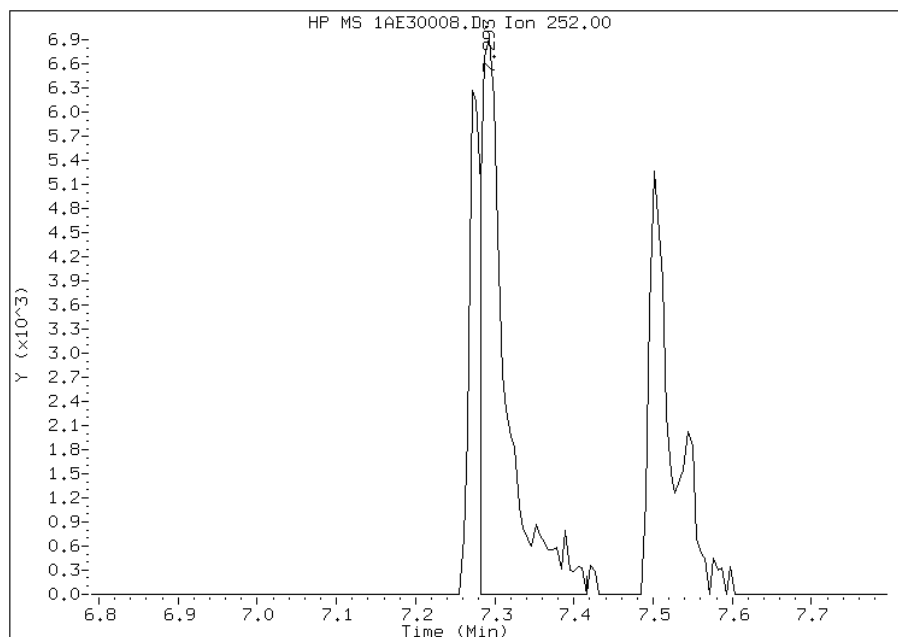
## Processing Integration Results

RT: 7.29  
Response: 12132  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 7.29  
Response: 15322  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:11  
Manual Integration Reason: Baseline Event

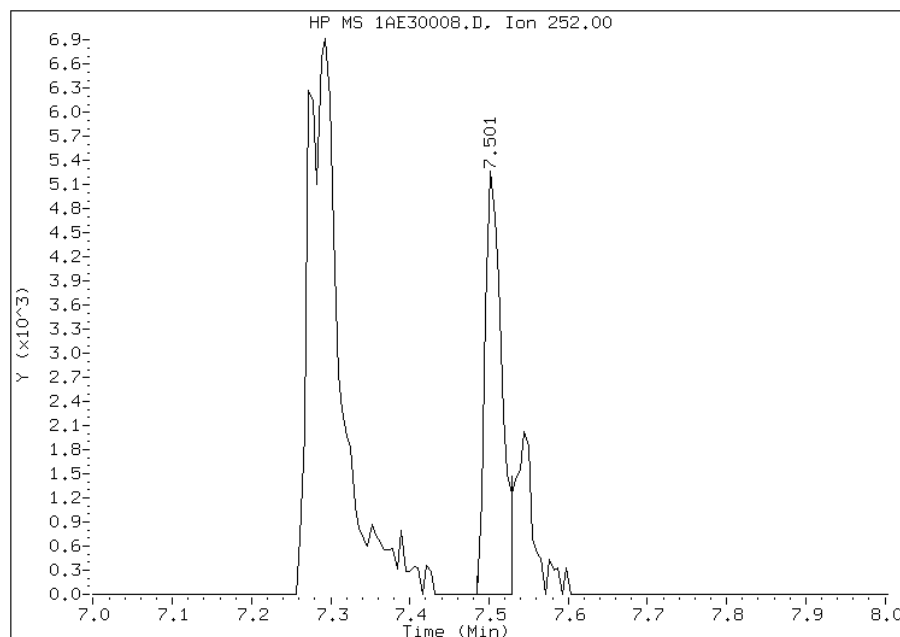


# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 23 Benzo(a)pyrene  
CAS #: 50-32-8  
Report Date: 06/03/2013

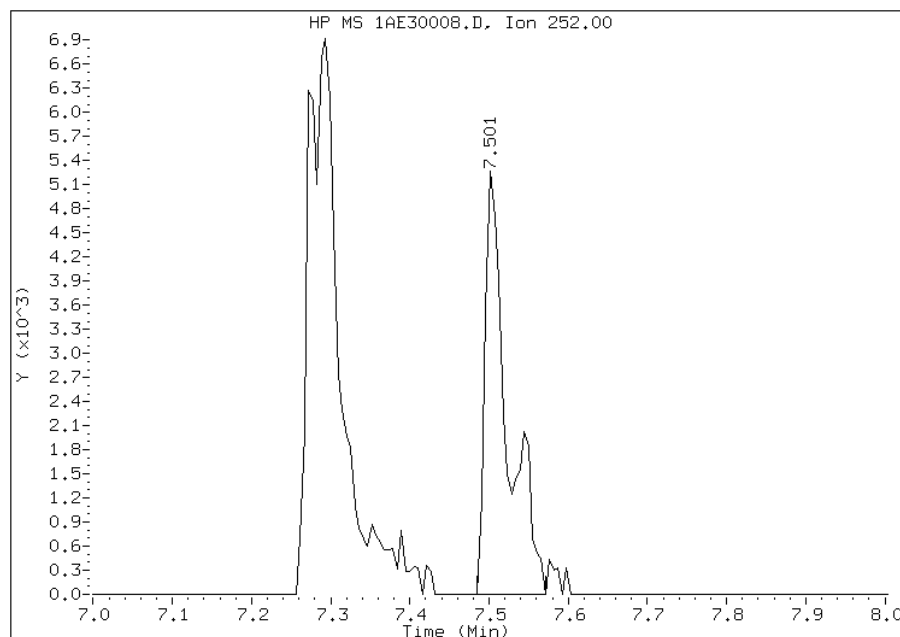
## Processing Integration Results

RT: 7.50  
Response: 7560  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 7.50  
Response: 10280  
Amount: 1  
Conc: 1



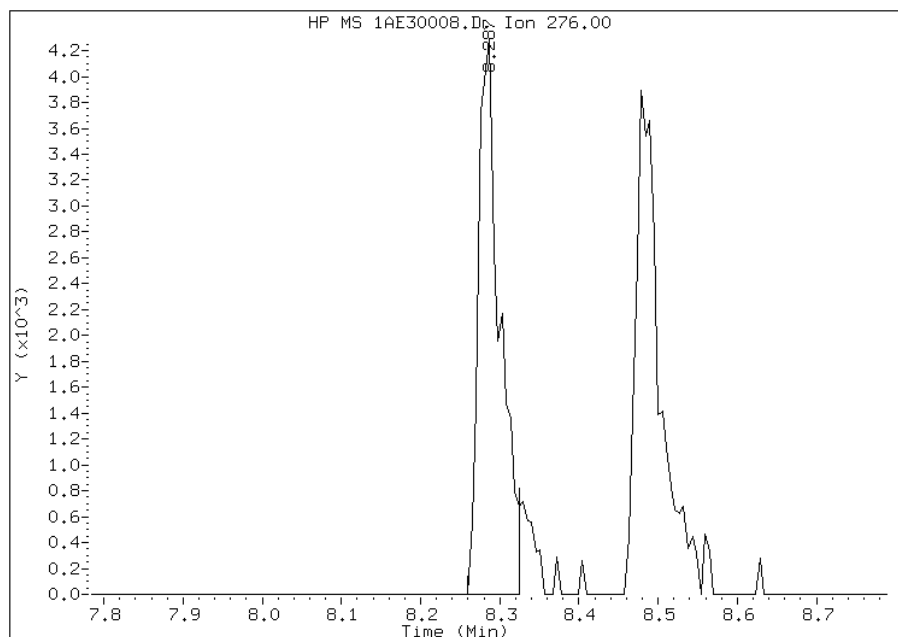
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

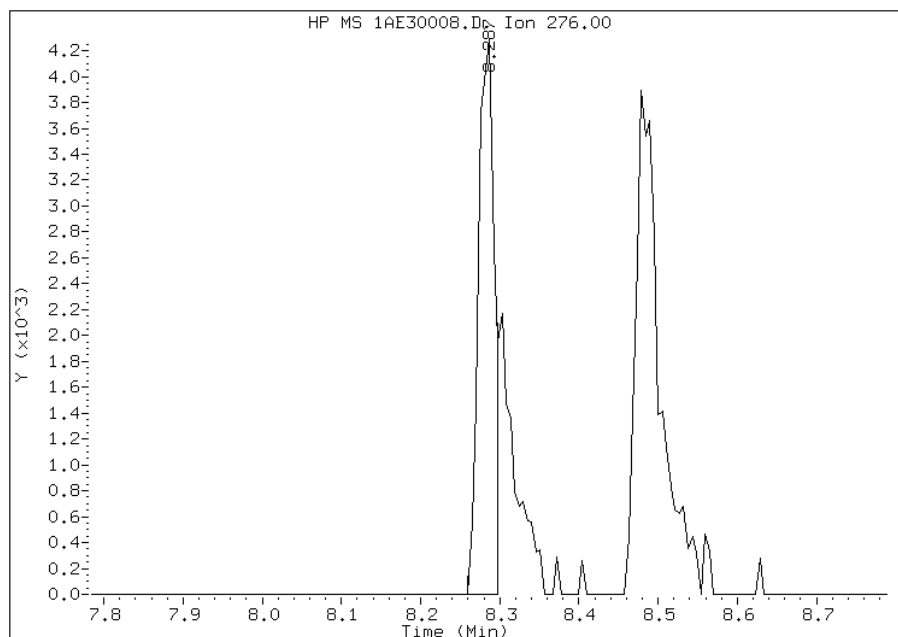
## Processing Integration Results

RT: 8.29  
Response: 8052  
Amount: 2  
Conc: 2



## Manual Integration Results

RT: 8.29  
Response: 5971  
Amount: 1  
Conc: 1



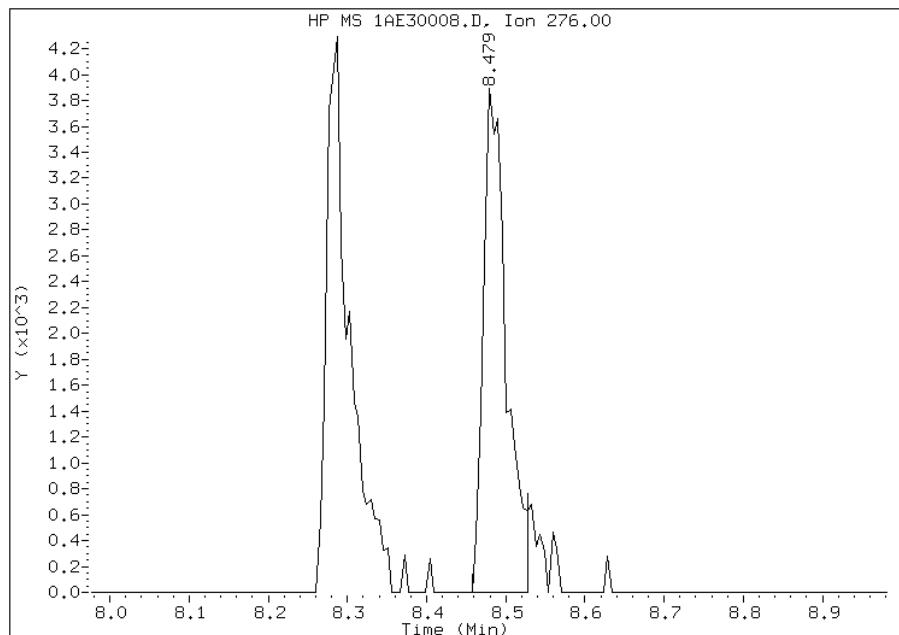
Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:43  
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE30008.D  
Inj. Date and Time: 30-MAY-2013 15:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

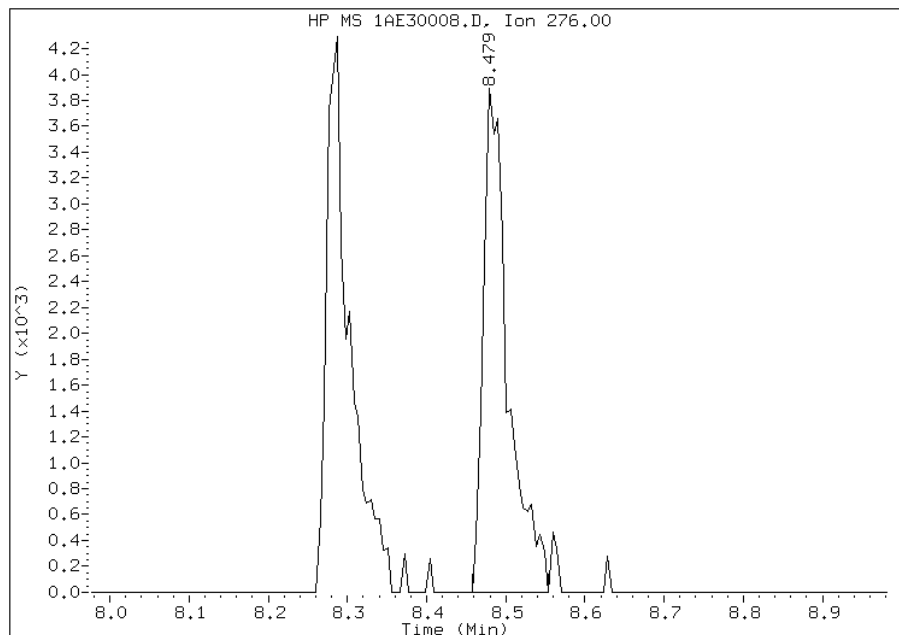
Processing Integration Results

RT: 8.48  
Response: 7784  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 8.48  
Response: 8363  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30009.D  
 Lab Smp Id: IC-1559457  
 Inj Date : 30-MAY-2013 15:53  
 Operator : TP  
 Smp Info : IC-1559457  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 15:38 Cal File: 1AE30008.D  
 Als bottle: 6 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.496	2.493	(1.000)	703898	40.0000	
* 7 Acenaphthene-d10	164	3.521	3.524	(1.000)	372050	40.0000	
* 11 Phenanthrene-d10	188	4.462	4.464	(1.000)	576871	40.0000	
\$ 15 o-Terphenyl	230	4.755	4.758	(1.066)	36445	5.00000	4.6285
* 19 Chrysene-d12	240	6.465	6.473	(1.000)	465500	40.0000	
* 24 Perylene-d12	264	7.549	7.552	(1.000)	453754	40.0000	
2 Naphthalene	128	2.506	2.503	(1.004)	72755	5.00000	4.7986
3 2-Methylnaphthalene	141	2.912	2.915	(1.167)	31104	5.00000	4.0705
4 1-Methylnaphthalene	142	2.966	2.968	(1.188)	55947	5.00000	5.2737(M)
5 1,1'-Biphenyl	154	3.190	3.193	(1.278)	56900	5.00000	5.1143(M)
6 Acenaphthylene	152	3.431	3.433	(0.974)	69448	5.00000	5.1362(M)
8 Acenaphthene	154	3.537	3.540	(1.005)	38374	5.00000	4.4720
9 Dibenzofuran	168	3.644	3.647	(1.035)	58203	5.00000	4.8204(M)
10 Fluorene	166	3.853	3.850	(1.094)	43971	5.00000	4.9575(M)
12 Phenanthrene	178	4.472	4.480	(1.002)	53771	5.00000	4.3492
13 Anthracene	178	4.510	4.512	(1.011)	74490	5.00000	5.4522(M)
16 Fluoranthene	202	5.332	5.340	(1.195)	63089	5.00000	4.3022(M)
17 Pyrene	202	5.498	5.500	(0.850)	72282	5.00000	5.3752(M)
18 Benzo(a)anthracene	228	6.460	6.467	(0.999)	53768	5.00000	4.2996
20 Chrysene	228	6.486	6.489	(1.003)	67856	5.00000	4.9572(M)
21 Benzo(b)fluoranthene	252	7.272	7.279	(0.963)	44371	5.00000	4.6375
22 Benzo(k)fluoranthene	252	7.293	7.301	(0.966)	76772	5.00000	4.8338(M)
23 Benzo(a)pyrene	252	7.501	7.509	(0.994)	47097	5.00000	4.4124
25 Indeno(1,2,3-cd)pyrene	276	8.281	8.294	(1.097)	41038	5.00000	5.1264(M)
26 Dibenzo(a,h)anthracene	278	8.308	8.321	(1.100)	45447	5.00000	4.4119(M)
27 Benzo(g,h,i)perylene	276	8.484	8.503	(1.124)	50880	5.00000	5.0332(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE30009.D

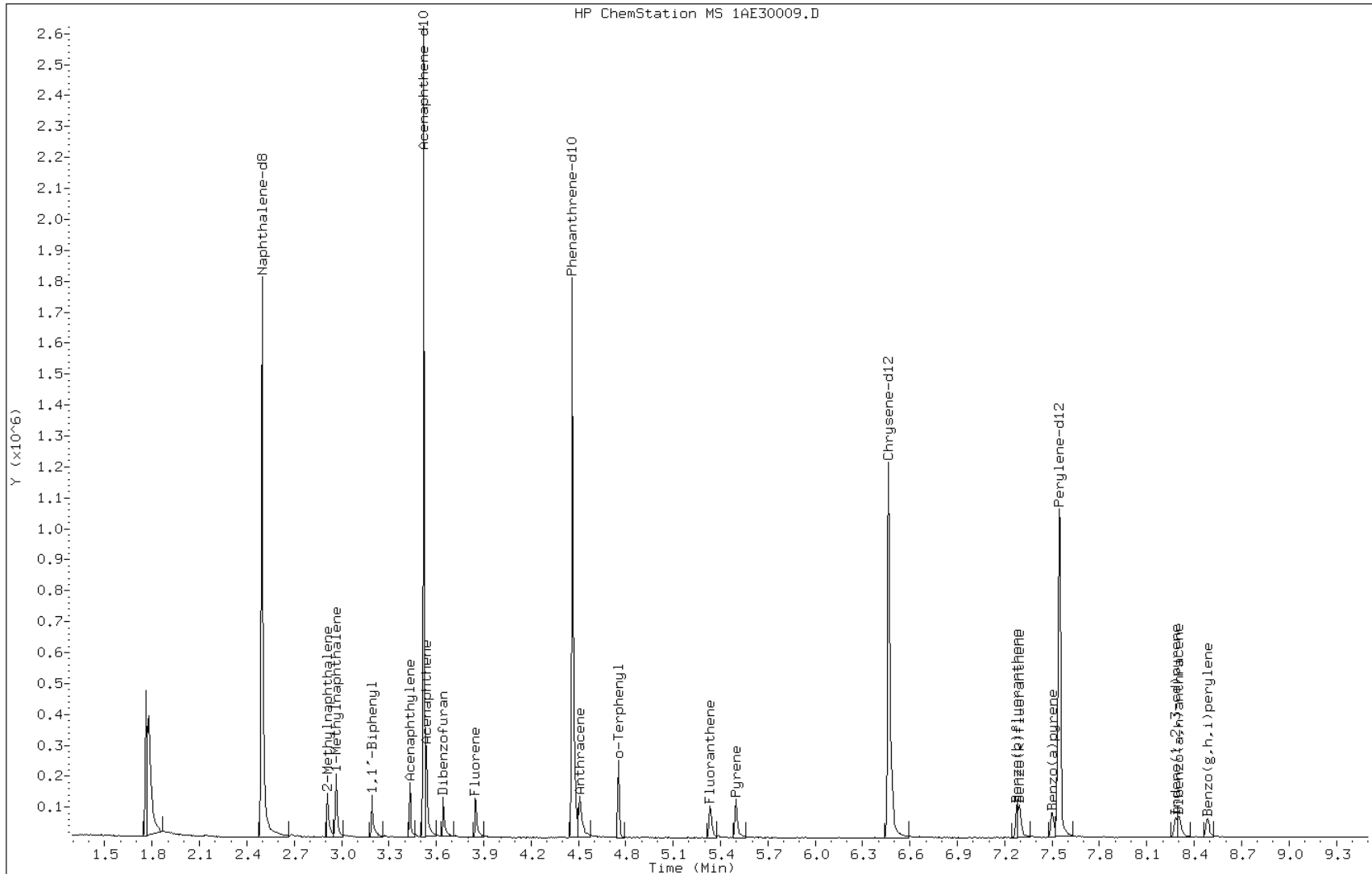
Date: 30-MAY-2013 15:53

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559457

Operator: TP

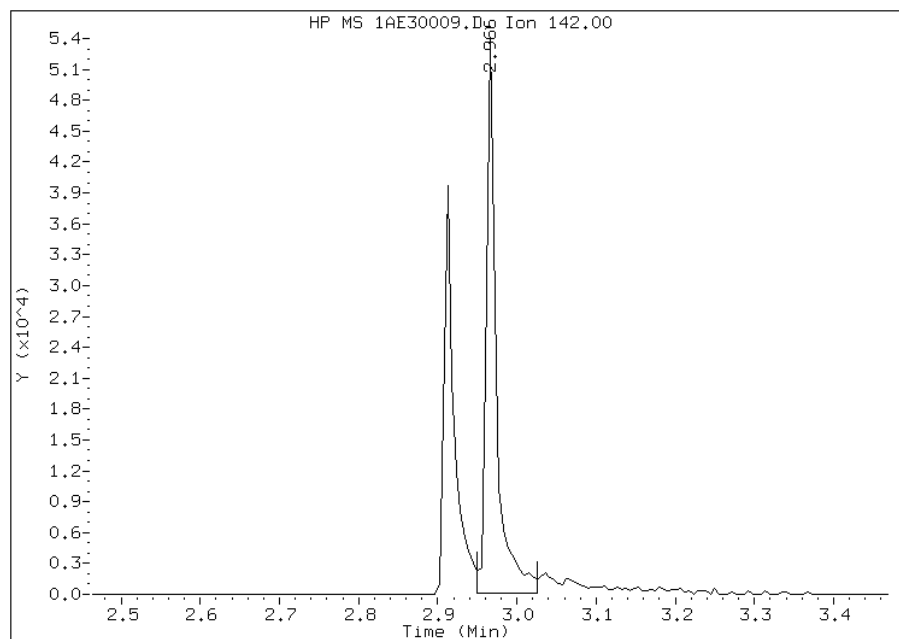


# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

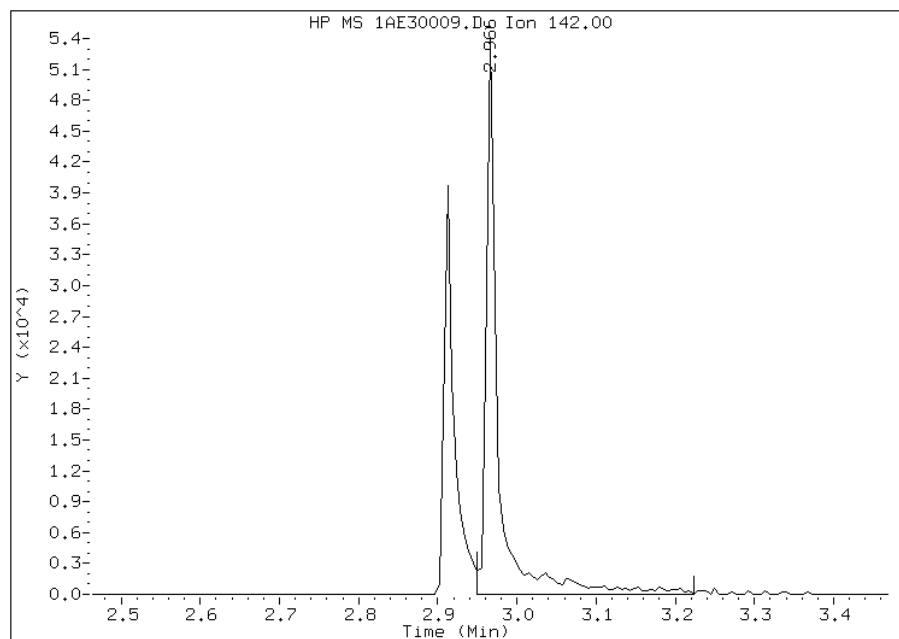
## Processing Integration Results

RT: 2.97  
Response: 46589  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 2.97  
Response: 55947  
Amount: 5  
Conc: 5



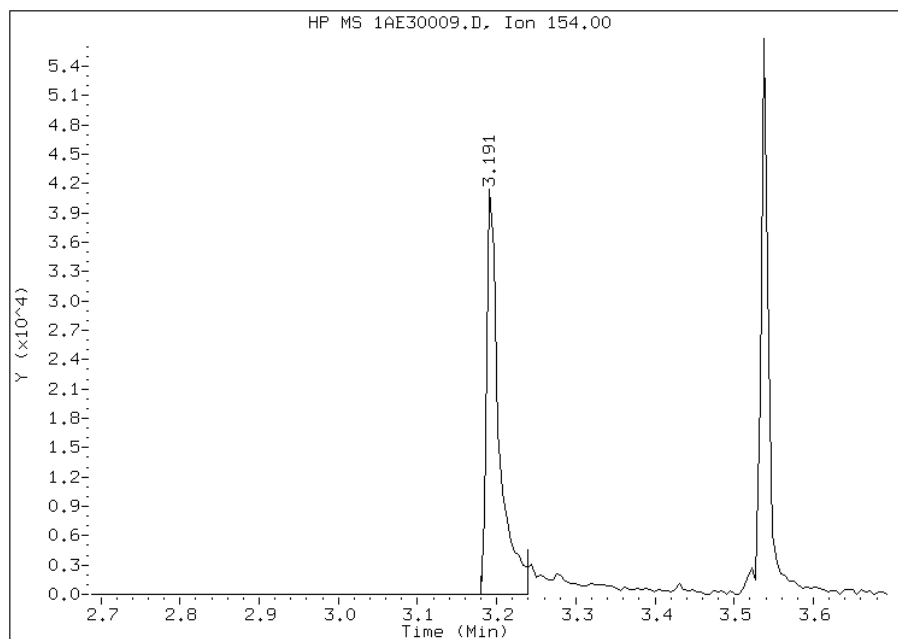
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 5 1,1'-Biphenyl  
CAS #: 92-52-4  
Report Date: 06/03/2013

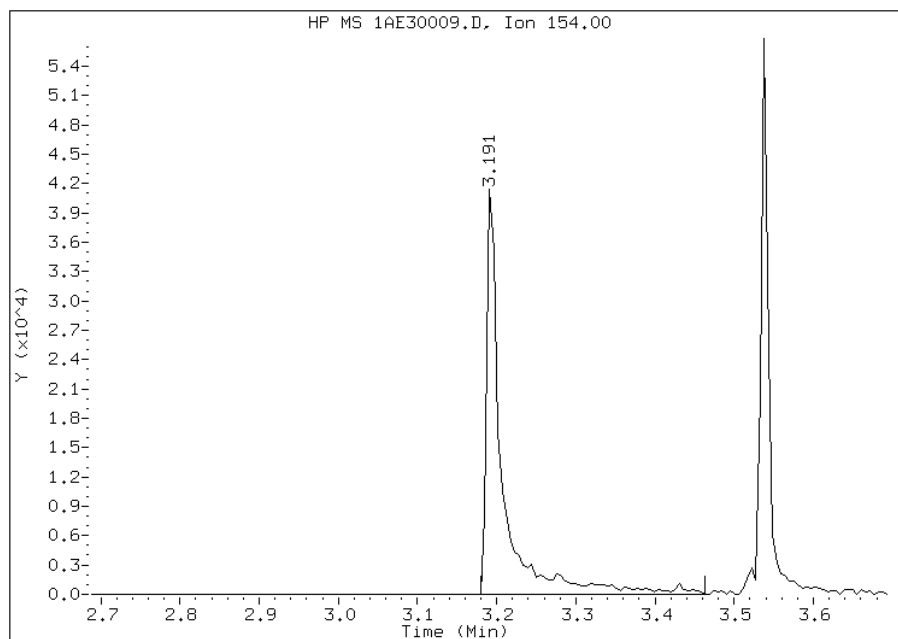
## Processing Integration Results

RT: 3.19  
Response: 44631  
Amount: 4  
Conc: 4



## Manual Integration Results

RT: 3.19  
Response: 56900  
Amount: 5  
Conc: 5



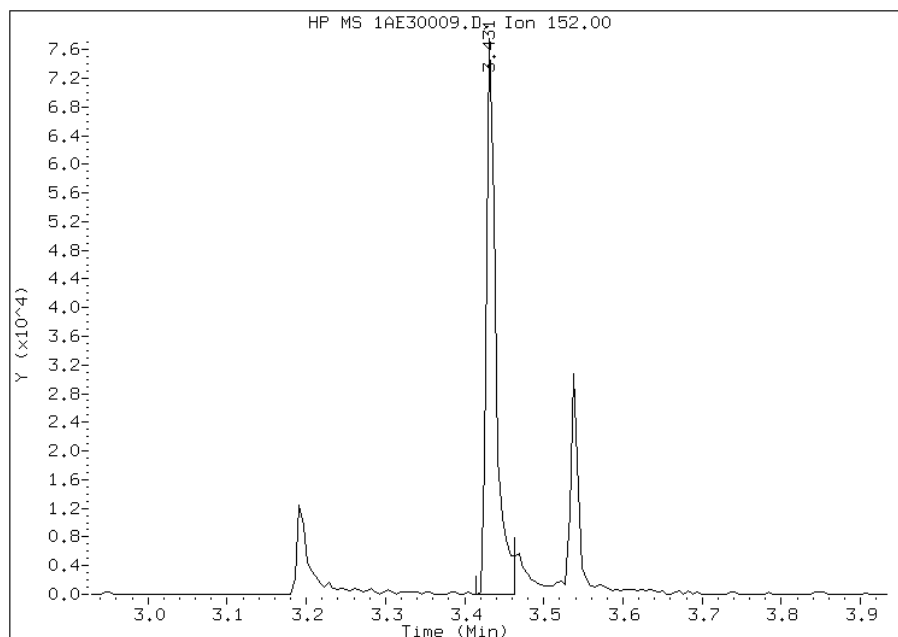
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 6 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 06/03/2013

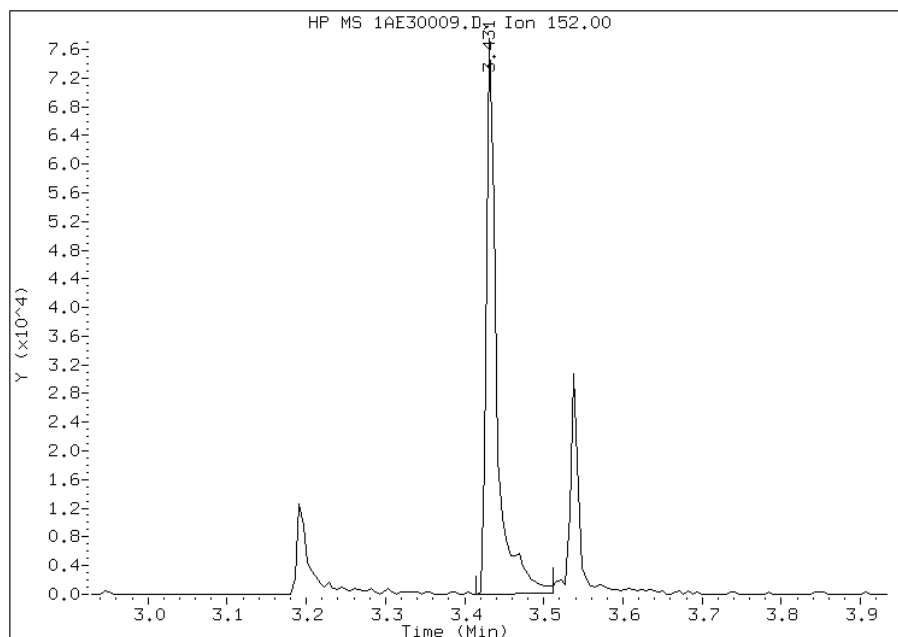
Processing Integration Results

RT: 3.43  
Response: 63322  
Amount: 5  
Conc: 5



Manual Integration Results

RT: 3.43  
Response: 69448  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

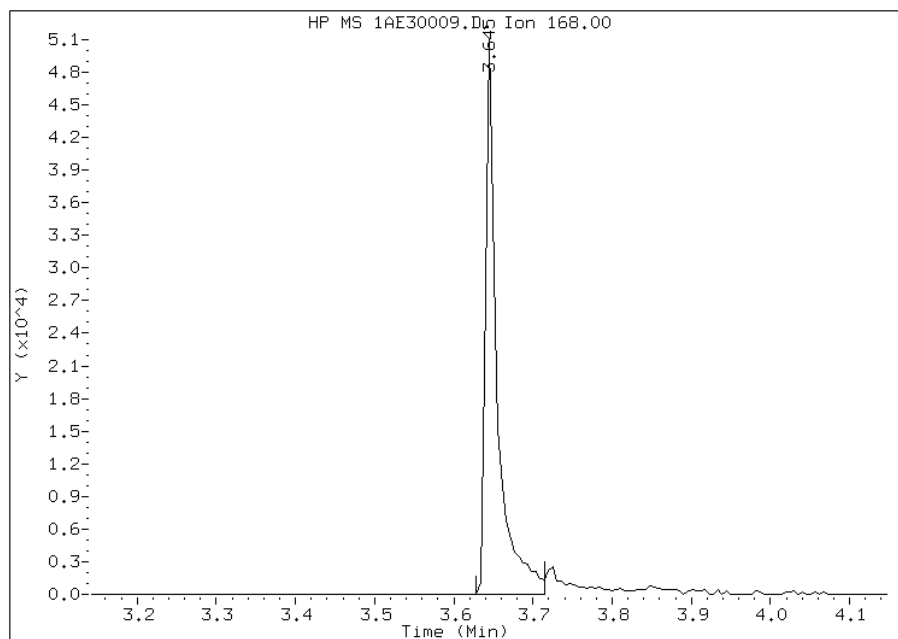


# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

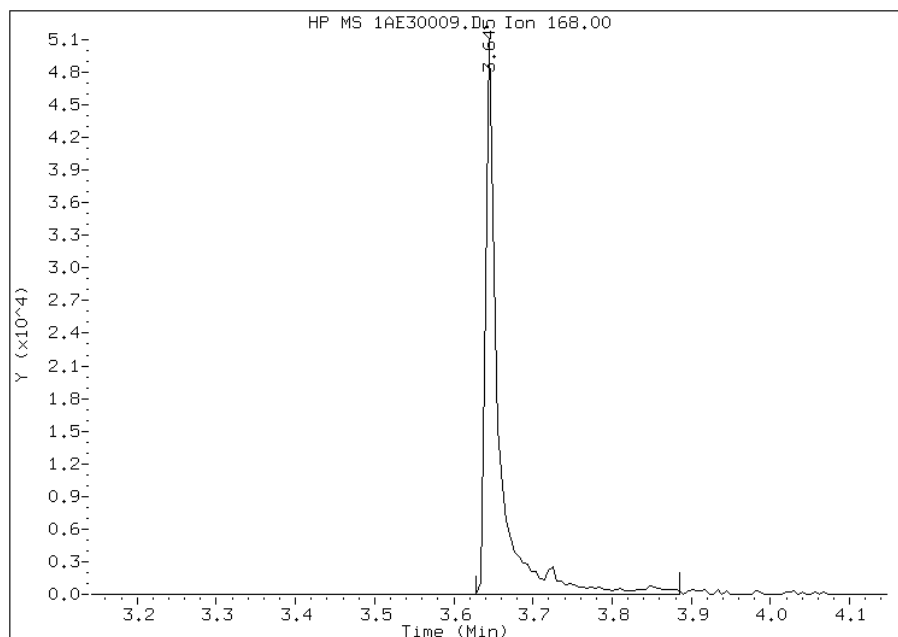
## Processing Integration Results

RT: 3.64  
Response: 51106  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 3.64  
Response: 58203  
Amount: 5  
Conc: 5



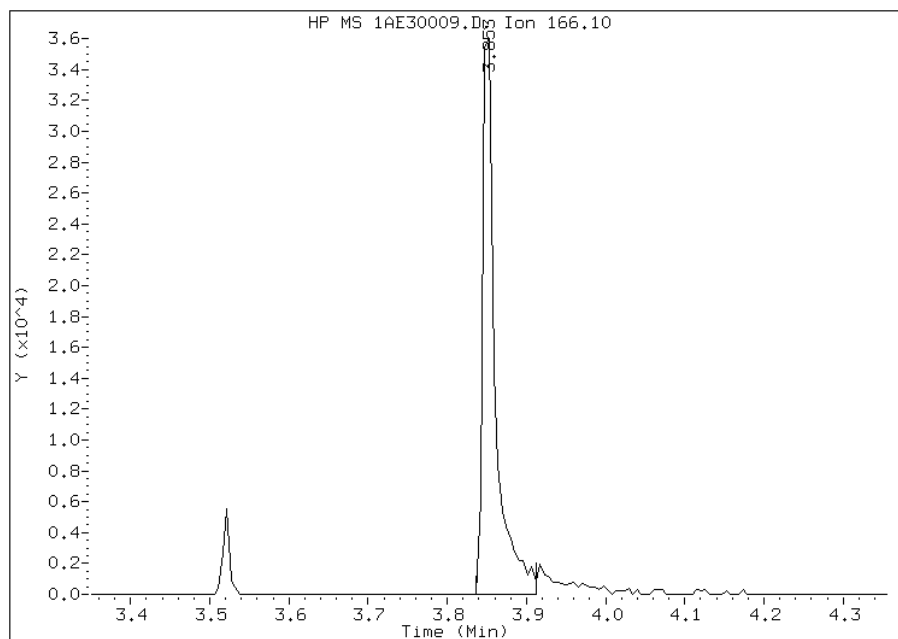
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:12  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 10 Fluorene  
CAS #: 86-73-7  
Report Date: 06/03/2013

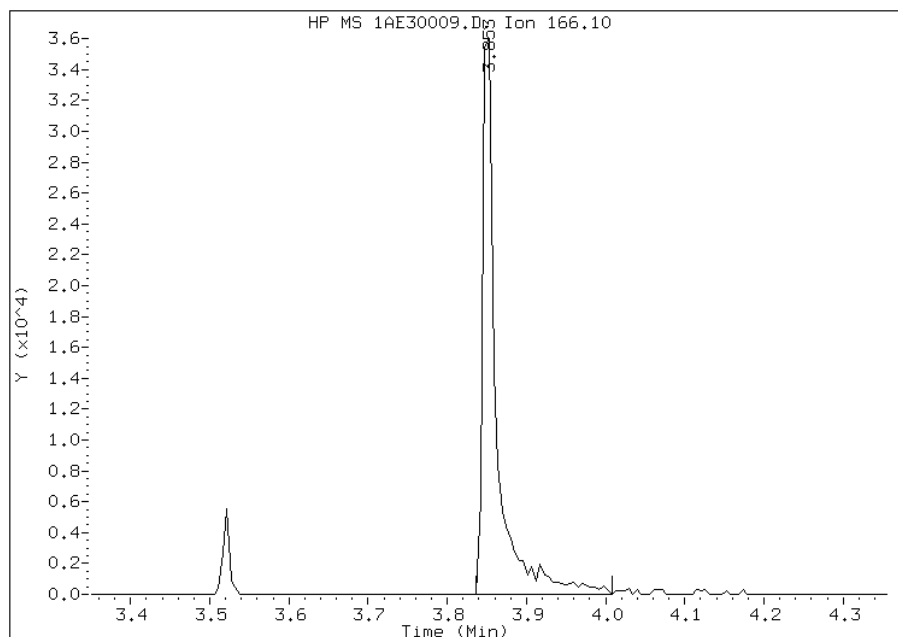
## Processing Integration Results

RT: 3.85  
Response: 39971  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 3.85  
Response: 43971  
Amount: 5  
Conc: 5



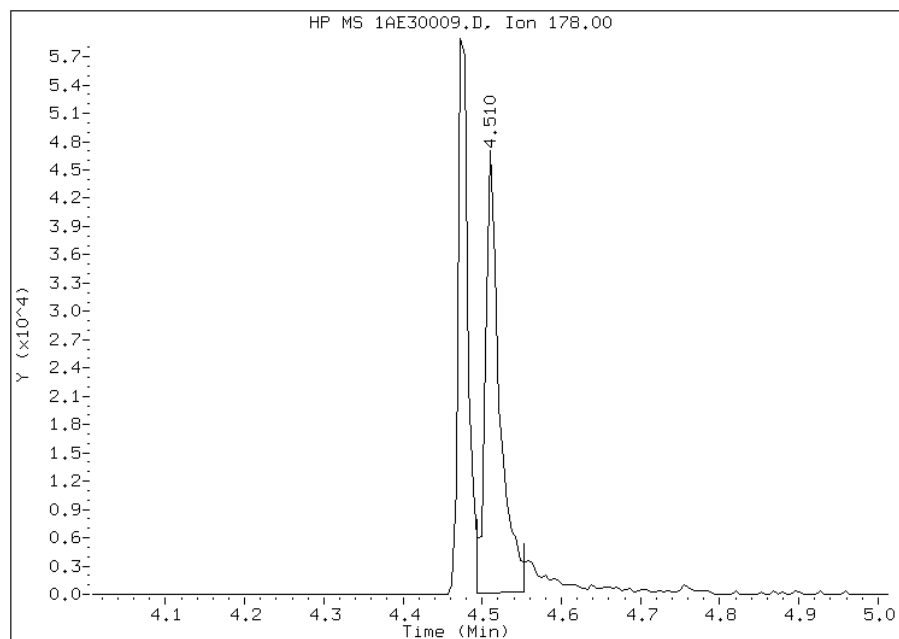
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Anthracene  
CAS #: 120-12-7  
Report Date: 06/03/2013

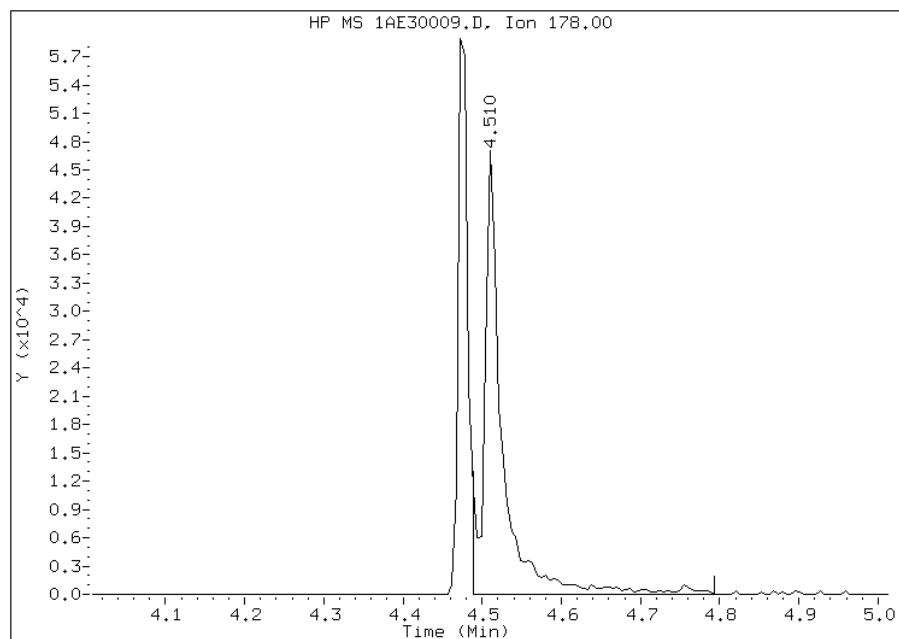
## Processing Integration Results

RT: 4.51  
Response: 57980  
Amount: 4  
Conc: 4



## Manual Integration Results

RT: 4.51  
Response: 74490  
Amount: 5  
Conc: 5



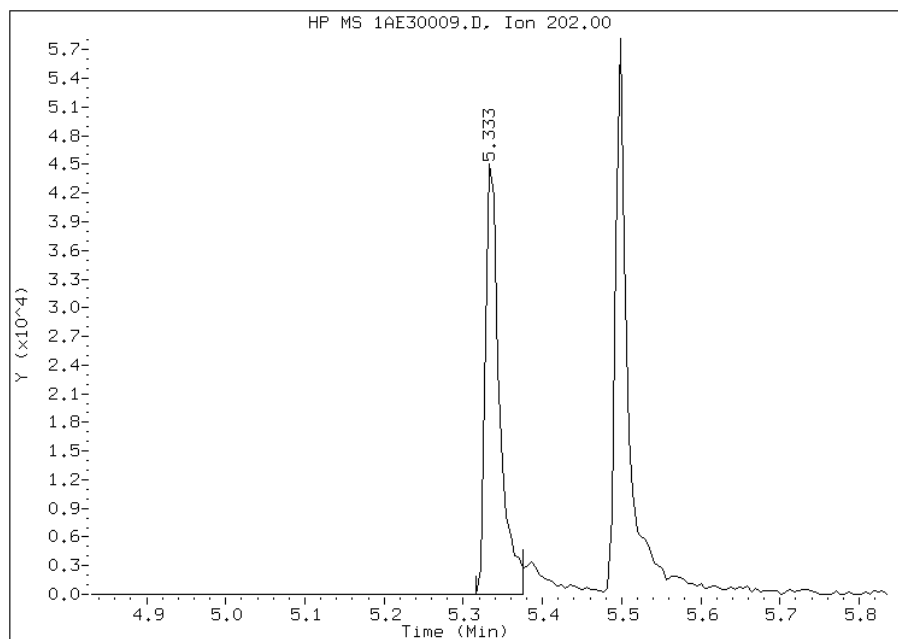
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 16 Fluoranthene  
CAS #: 206-44-0  
Report Date: 06/03/2013

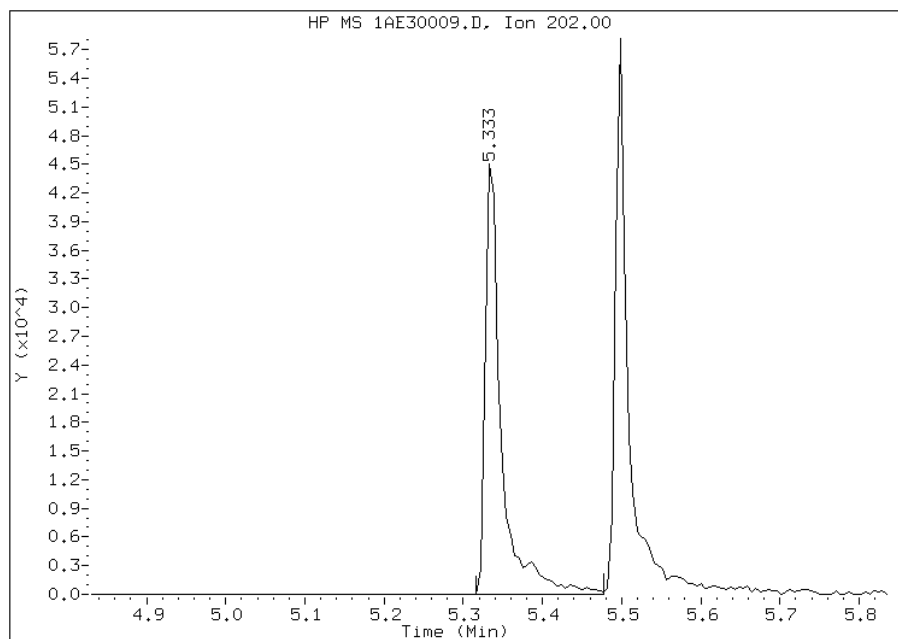
## Processing Integration Results

RT: 5.33  
Response: 55376  
Amount: 4  
Conc: 4



## Manual Integration Results

RT: 5.33  
Response: 63089  
Amount: 4  
Conc: 4



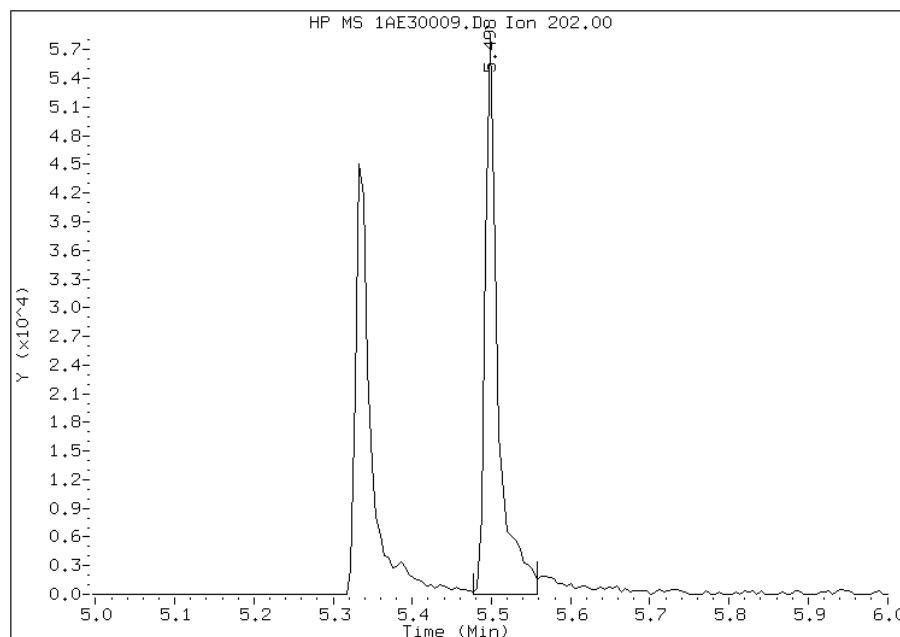
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 17 Pyrene  
CAS #: 129-00-0  
Report Date: 06/03/2013

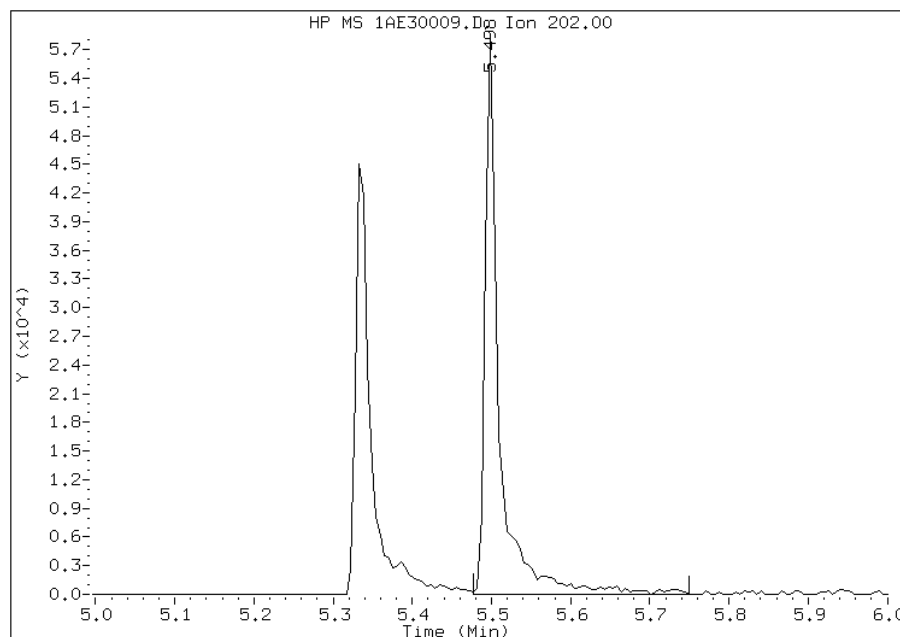
## Processing Integration Results

RT: 5.50  
Response: 64255  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 5.50  
Response: 72282  
Amount: 5  
Conc: 5



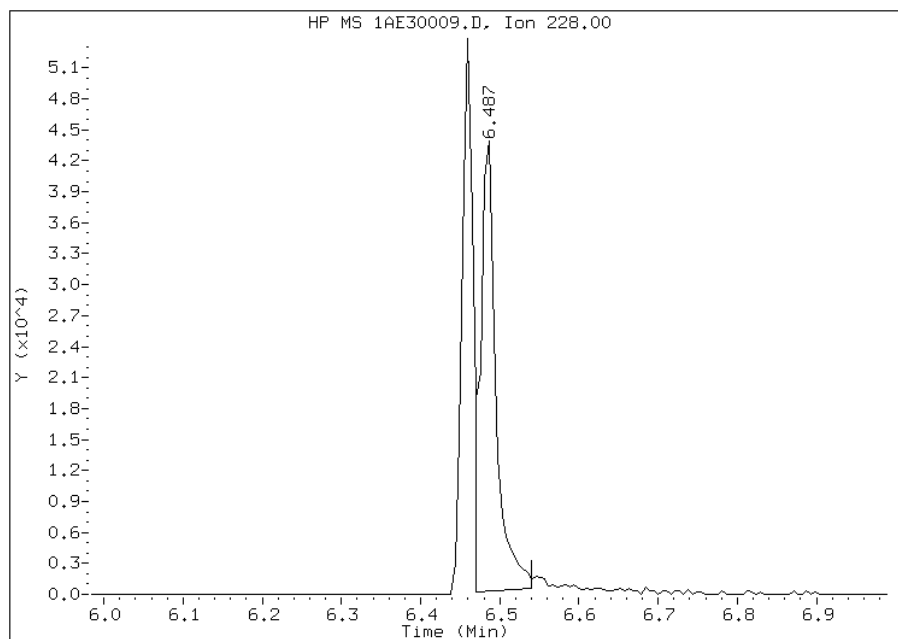
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 20 Chrysene  
CAS #: 218-01-9  
Report Date: 06/03/2013

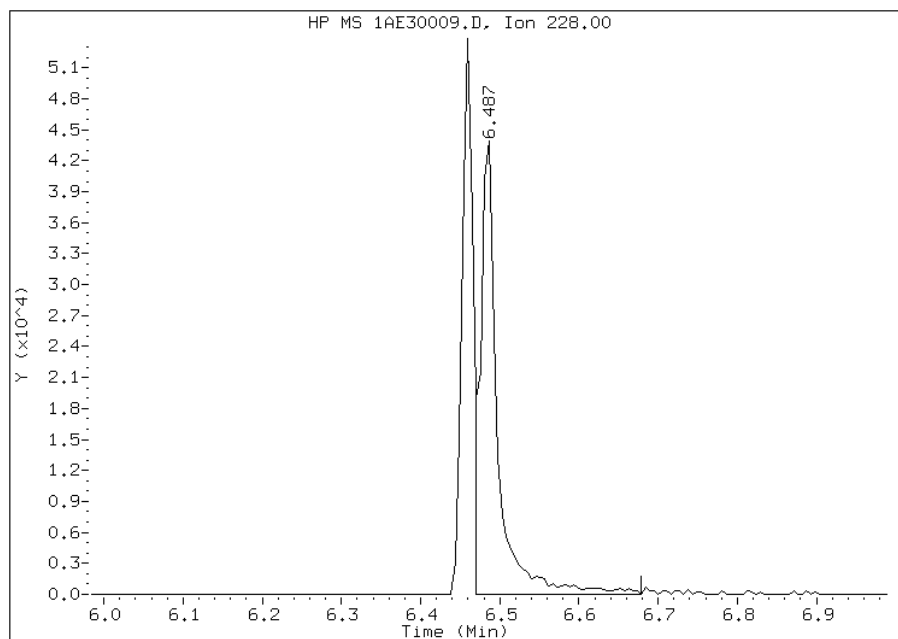
## Processing Integration Results

RT: 6.49  
Response: 60129  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 6.49  
Response: 67856  
Amount: 5  
Conc: 5



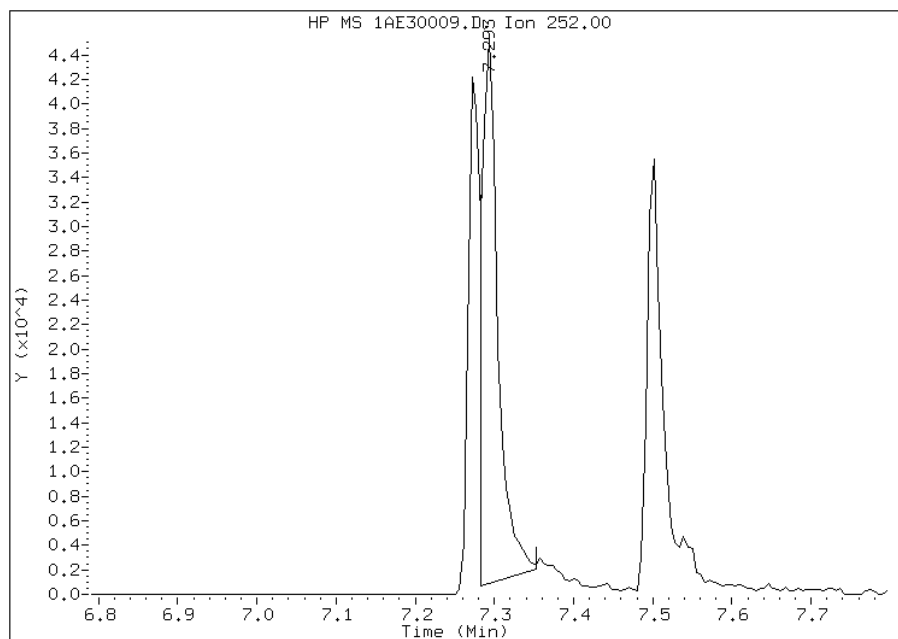
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/03/2013

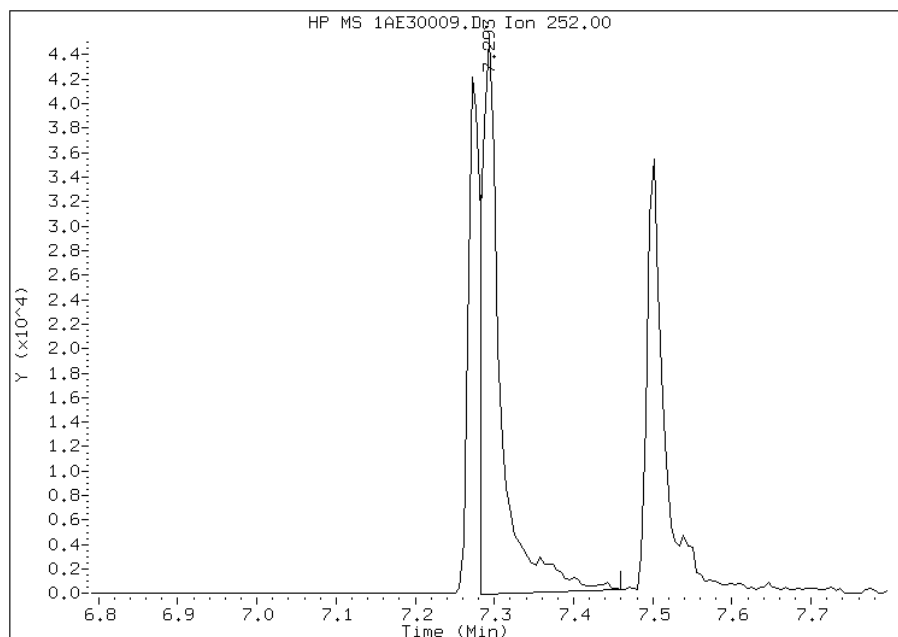
## Processing Integration Results

RT: 7.29  
Response: 64000  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 7.29  
Response: 76772  
Amount: 5  
Conc: 5



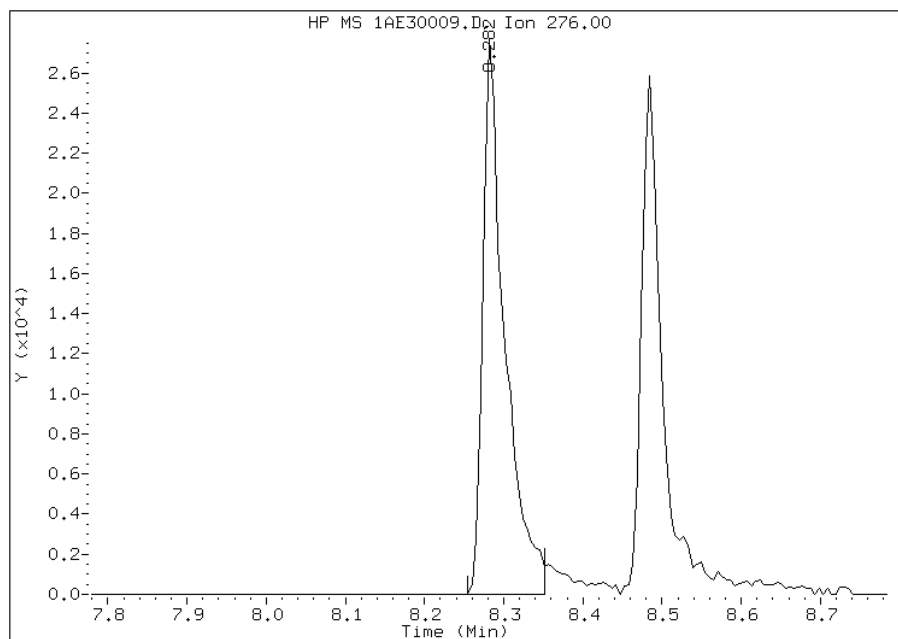
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:13  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

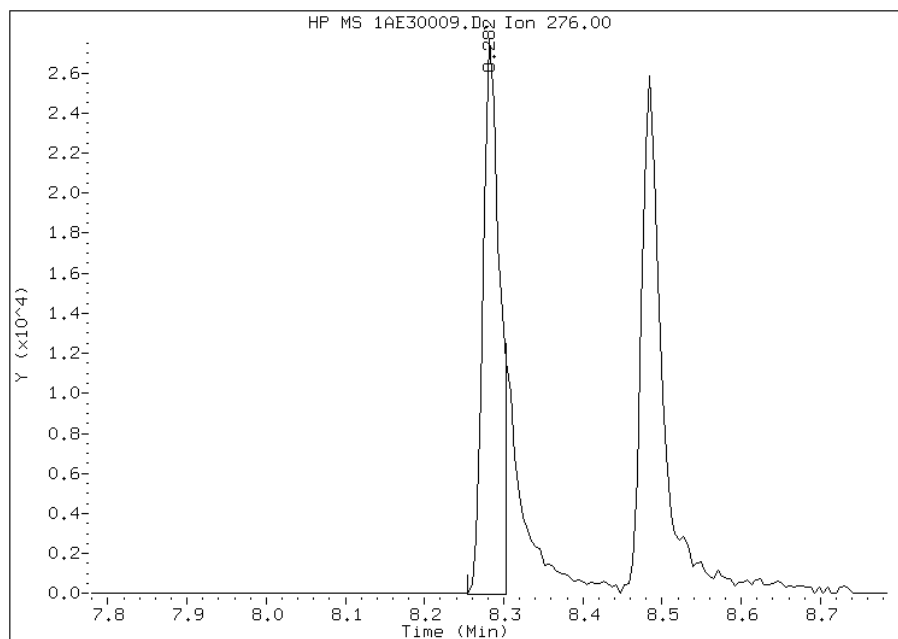
## Processing Integration Results

RT: 8.28  
Response: 52869  
Amount: 6  
Conc: 6



## Manual Integration Results

RT: 8.28  
Response: 41038  
Amount: 5  
Conc: 5



Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:43  
Manual Integration Reason: Split Peak

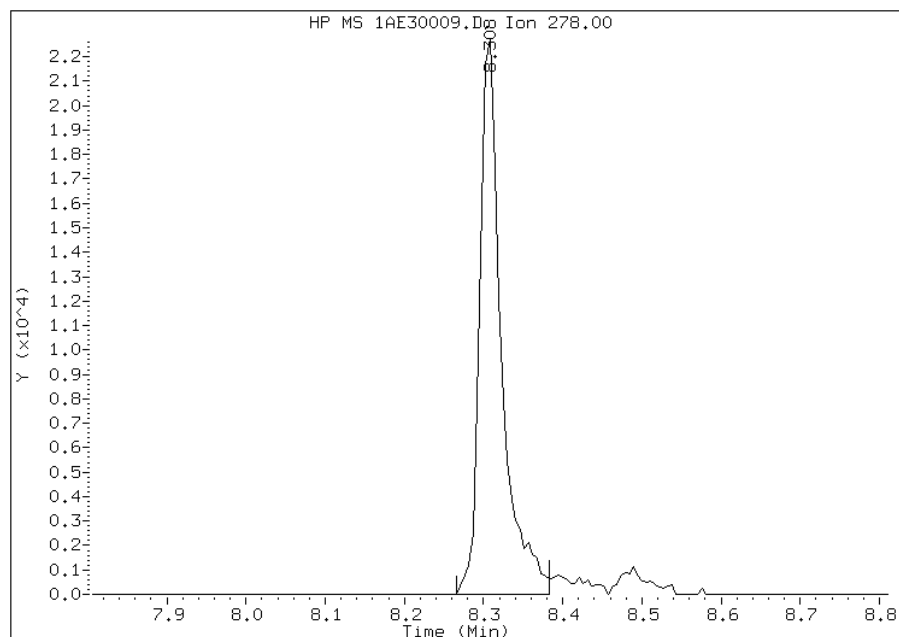


Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 06/03/2013

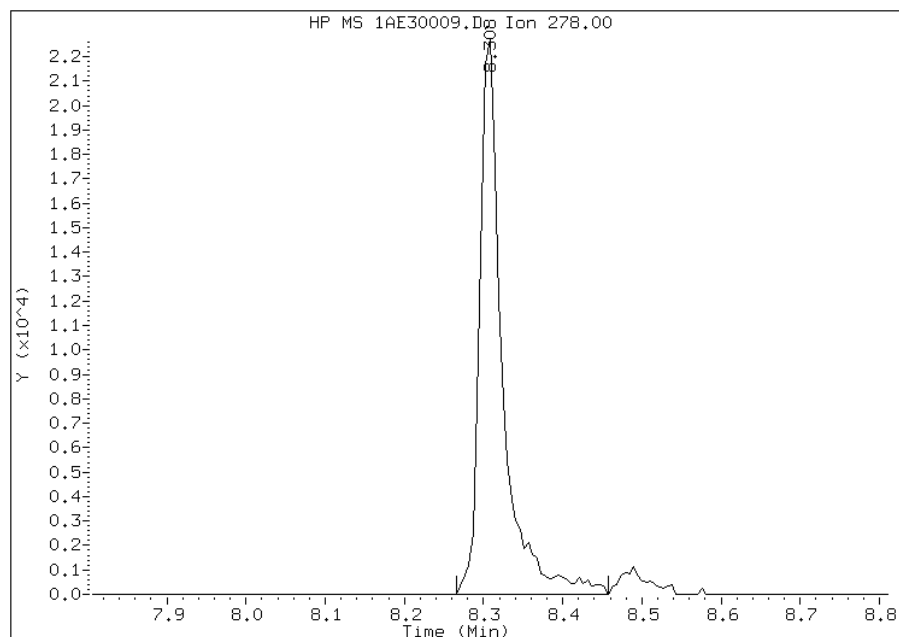
Processing Integration Results

RT: 8.31  
Response: 43240  
Amount: 4  
Conc: 4



Manual Integration Results

RT: 8.31  
Response: 45447  
Amount: 4  
Conc: 4



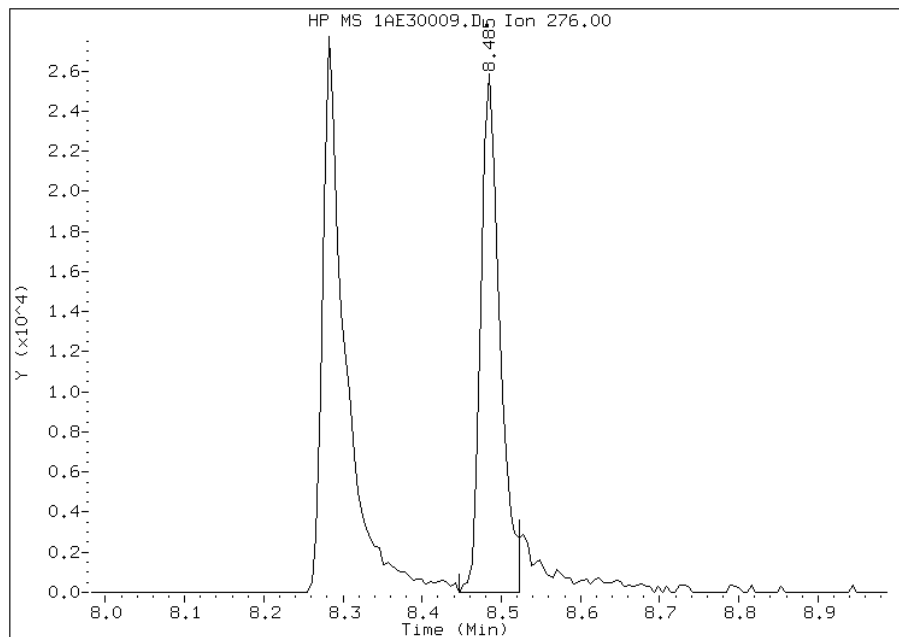
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:14  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30009.D  
Inj. Date and Time: 30-MAY-2013 15:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

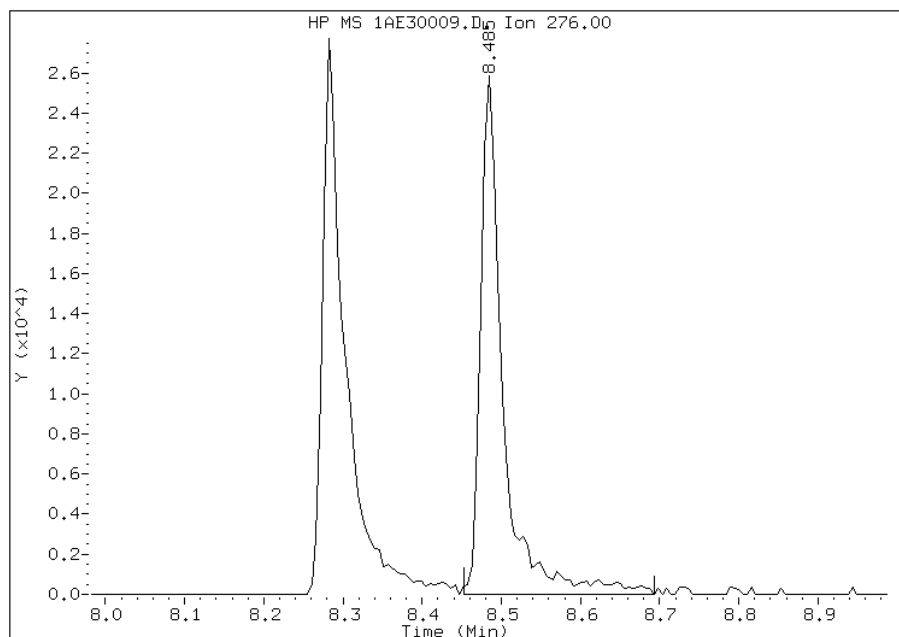
Processing Integration Results

RT: 8.48  
Response: 42849  
Amount: 5  
Conc: 5



Manual Integration Results

RT: 8.48  
Response: 50880  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:14  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30010.D  
 Lab Smp Id: IC-1559458  
 Inj Date : 30-MAY-2013 16:08  
 Operator : TP  
 Smp Info : IC-1559458  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30010.D  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 15:53 Cal File: 1AE30009.D  
 Als bottle: 7 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.493	2.493	(1.000)	661838	40.0000	
* 7 Acenaphthene-d10	164	3.519	3.524	(1.000)	360448	40.0000	
* 11 Phenanthrene-d10	188	4.459	4.464	(1.000)	577583	40.0000	
\$ 15 o-Terphenyl	230	4.758	4.758	(1.067)	74153	10.0000	9.4059
* 19 Chrysene-d12	240	6.467	6.473	(1.000)	464852	40.0000	
* 24 Perylene-d12	264	7.547	7.552	(1.000)	392794	40.0000	
2 Naphthalene	128	2.504	2.503	(1.004)	142015	10.0000	9.9619
3 2-Methylnaphthalene	141	2.910	2.915	(1.167)	69559	10.0000	9.4915
4 1-Methylnaphthalene	142	2.968	2.968	(1.191)	113430	10.0000	11.3717(M)
5 1,1'-Biphenyl	154	3.193	3.193	(1.281)	116654	10.0000	10.4092(M)
6 Acenaphthylene	152	3.433	3.433	(0.976)	148976	10.0000	9.5897
8 Acenaphthene	154	3.540	3.540	(1.006)	82723	10.0000	9.9506
9 Dibenzofuran	168	3.641	3.647	(1.035)	127539	10.0000	9.8782(M)
10 Fluorene	166	3.850	3.850	(1.094)	92220	10.0000	9.5630(M)
12 Phenanthrene	178	4.475	4.480	(1.004)	121579	10.0000	9.8217
13 Anthracene	178	4.512	4.512	(1.012)	130408	10.0000	9.5333
16 Fluoranthene	202	5.335	5.340	(1.196)	137369	10.0000	9.2343(M)
17 Pyrene	202	5.501	5.500	(0.851)	139918	10.0000	10.4195
18 Benzo(a)anthracene	228	6.462	6.467	(0.999)	119782	10.0000	9.5918
20 Chrysene	228	6.484	6.489	(1.002)	138024	10.0000	10.0974(M)
21 Benzo(b)fluoranthene	252	7.274	7.279	(0.964)	92047	10.0000	8.9442
22 Benzo(k)fluoranthene	252	7.296	7.301	(0.967)	135460	10.0000	9.7142(M)
23 Benzo(a)pyrene	252	7.499	7.509	(0.994)	86149	10.0000	9.3237
25 Indeno(1,2,3-cd)pyrene	276	8.278	8.294	(1.097)	68563	10.0000	9.8940(M)
26 Dibenzo(a,h)anthracene	278	8.305	8.321	(1.101)	77730	10.0000	8.5868(M)
27 Benzo(g,h,i)perylene	276	8.481	8.503	(1.124)	86542	10.0000	9.7639(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE30010.D

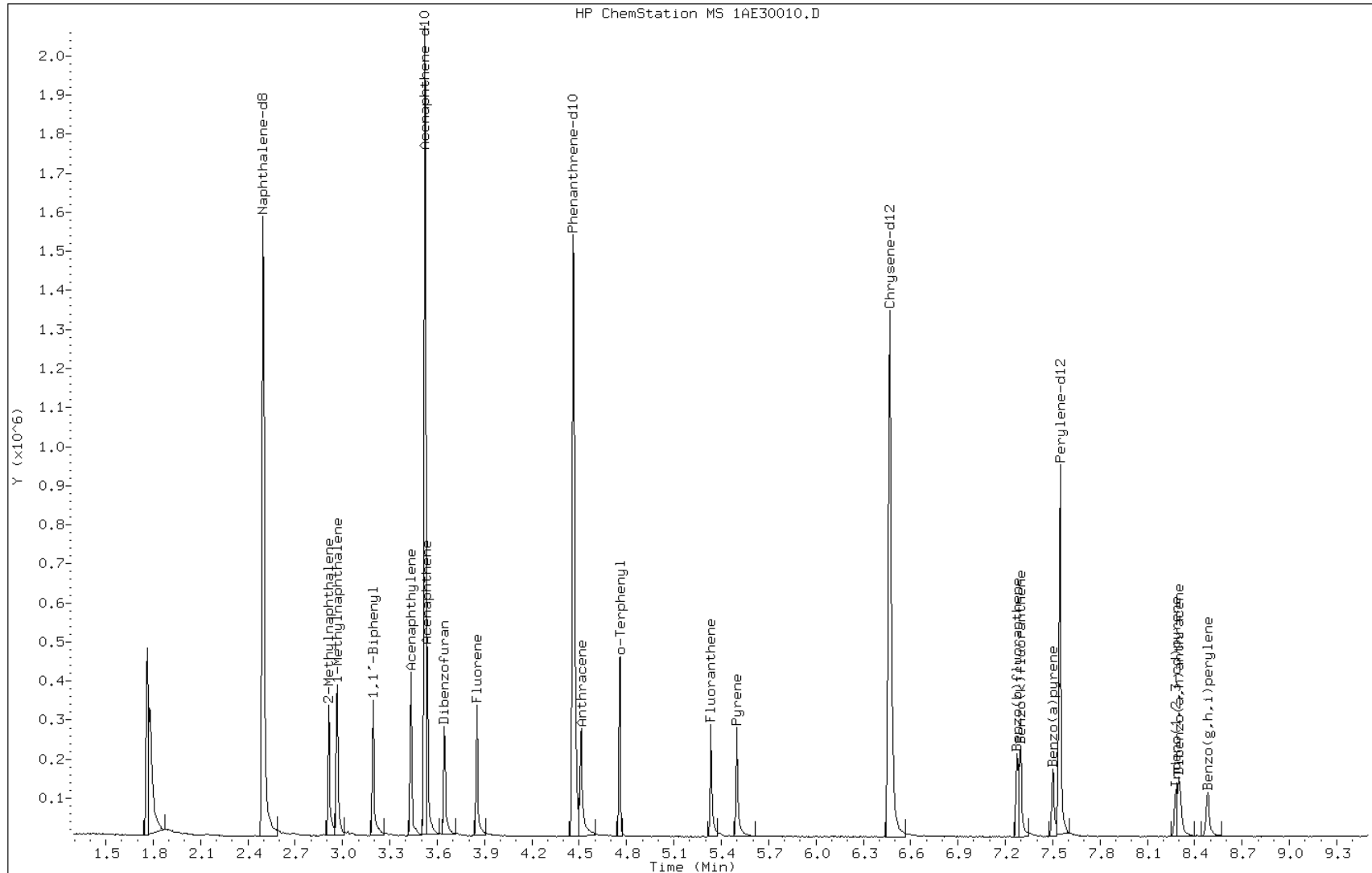
Date: 30-MAY-2013 16:08

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559458

Operator: TP

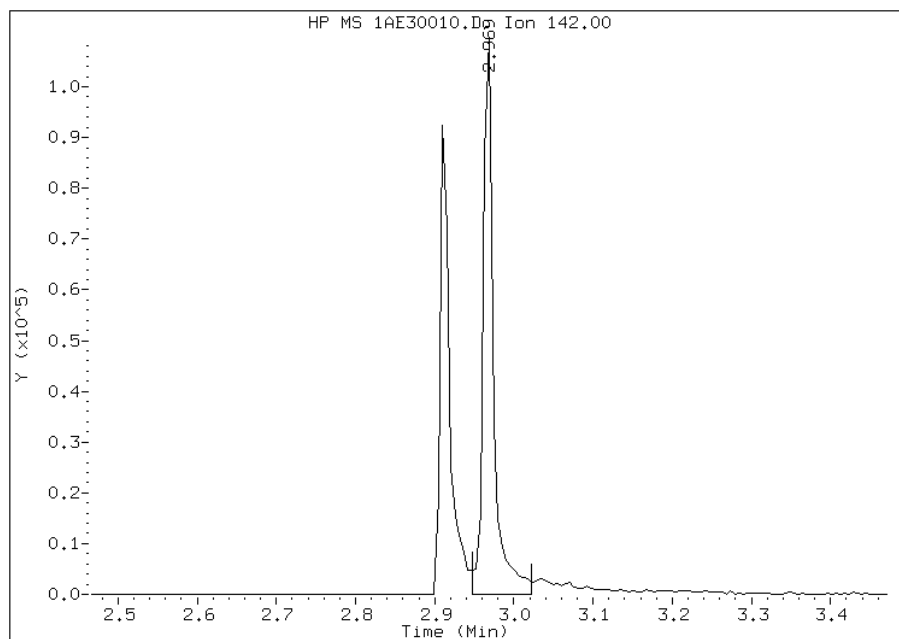


# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

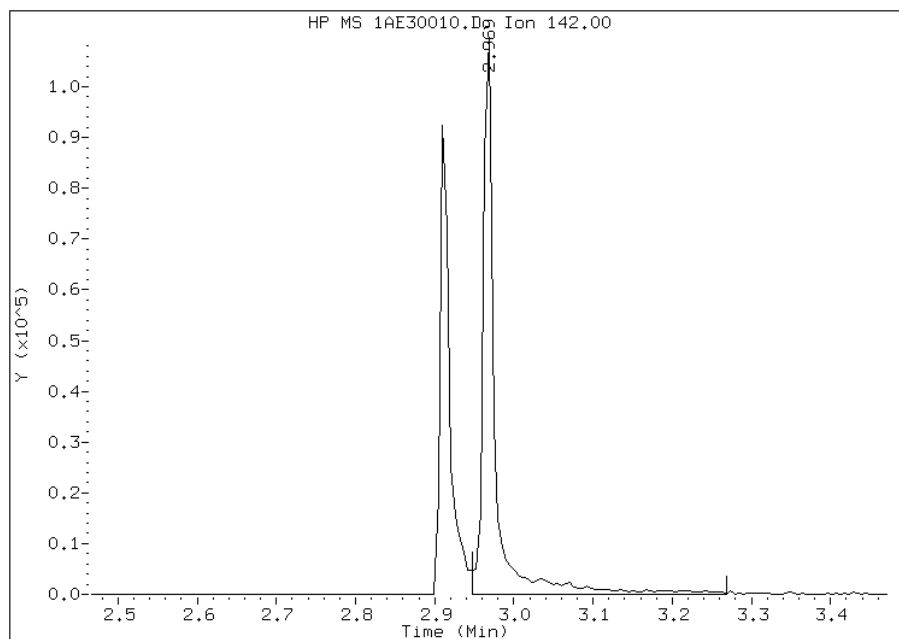
## Processing Integration Results

RT: 2.97  
Response: 99169  
Amount: 11  
Conc: 11



## Manual Integration Results

RT: 2.97  
Response: 113430  
Amount: 11  
Conc: 11



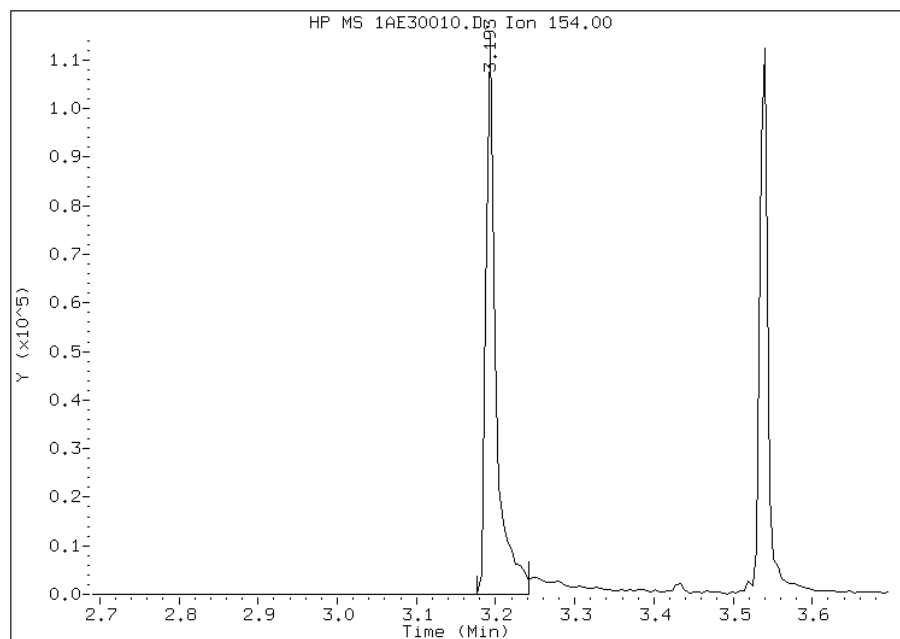
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:14  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 5 1,1'-Biphenyl  
CAS #: 92-52-4  
Report Date: 06/03/2013

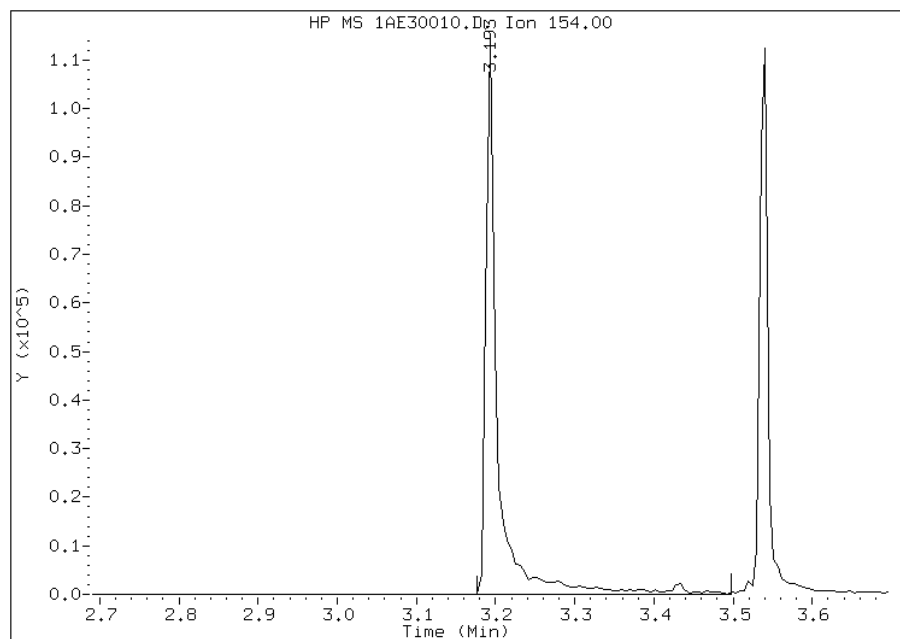
Processing Integration Results

RT: 3.19  
Response: 98253  
Amount: 9  
Conc: 9



Manual Integration Results

RT: 3.19  
Response: 116654  
Amount: 10  
Conc: 10



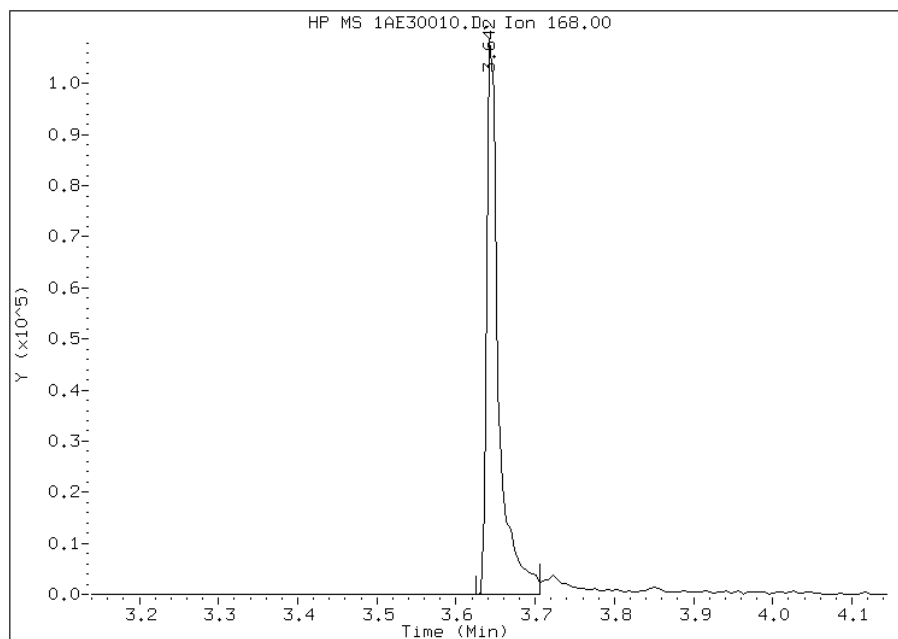
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

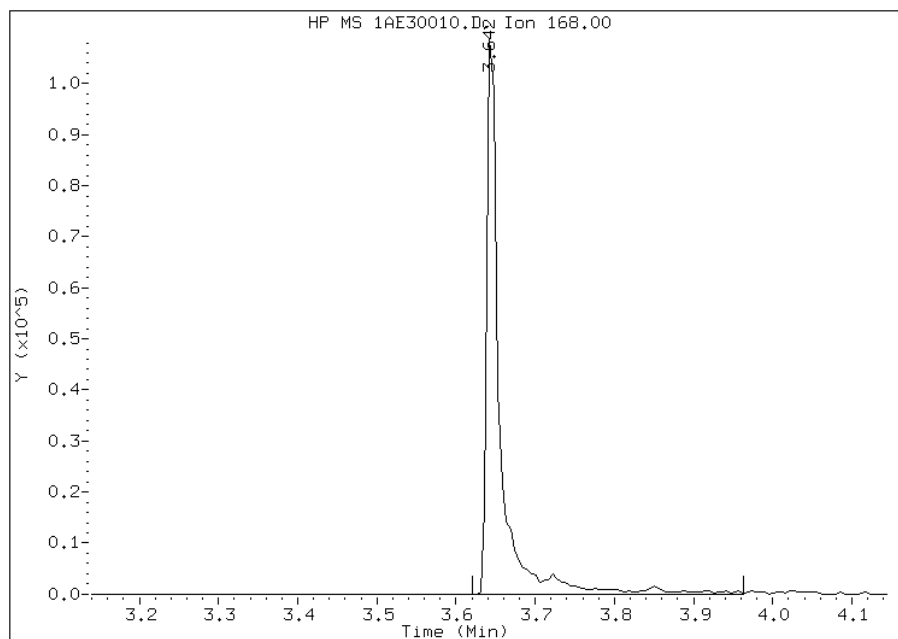
## Processing Integration Results

RT: 3.64  
Response: 111314  
Amount: 9  
Conc: 9



## Manual Integration Results

RT: 3.64  
Response: 127539  
Amount: 10  
Conc: 10



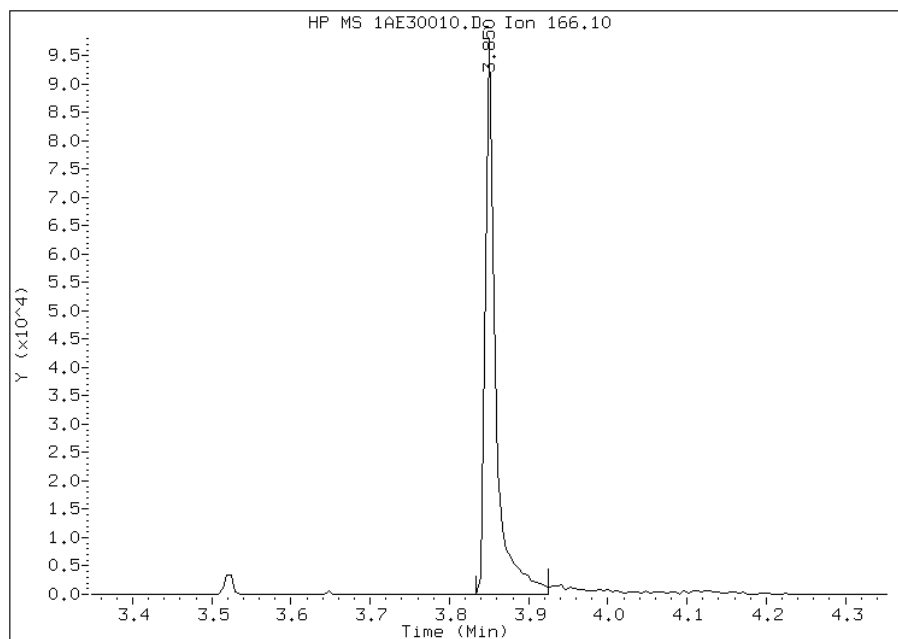
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 10 Fluorene  
CAS #: 86-73-7  
Report Date: 06/03/2013

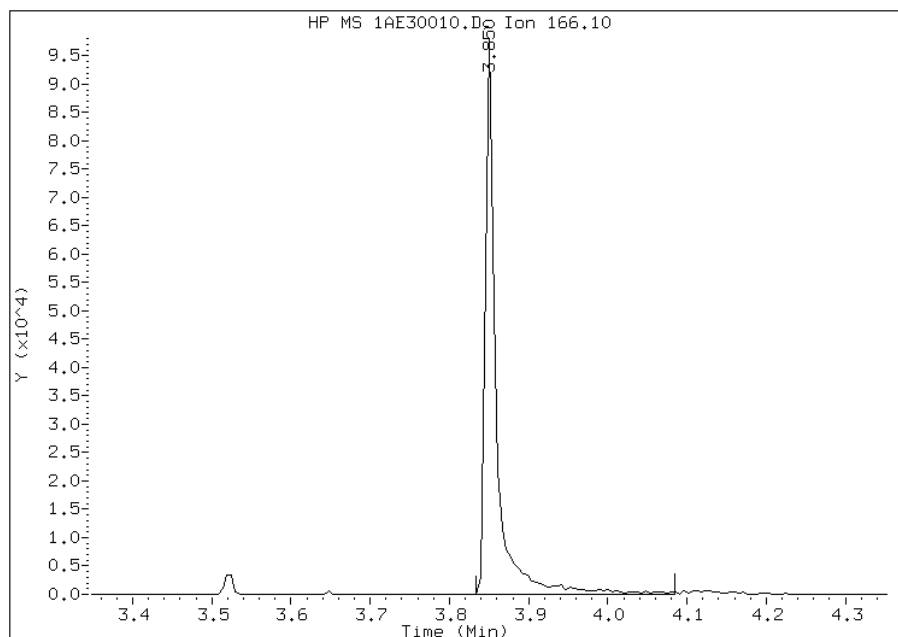
## Processing Integration Results

RT: 3.85  
Response: 85967  
Amount: 10  
Conc: 10



## Manual Integration Results

RT: 3.85  
Response: 92220  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

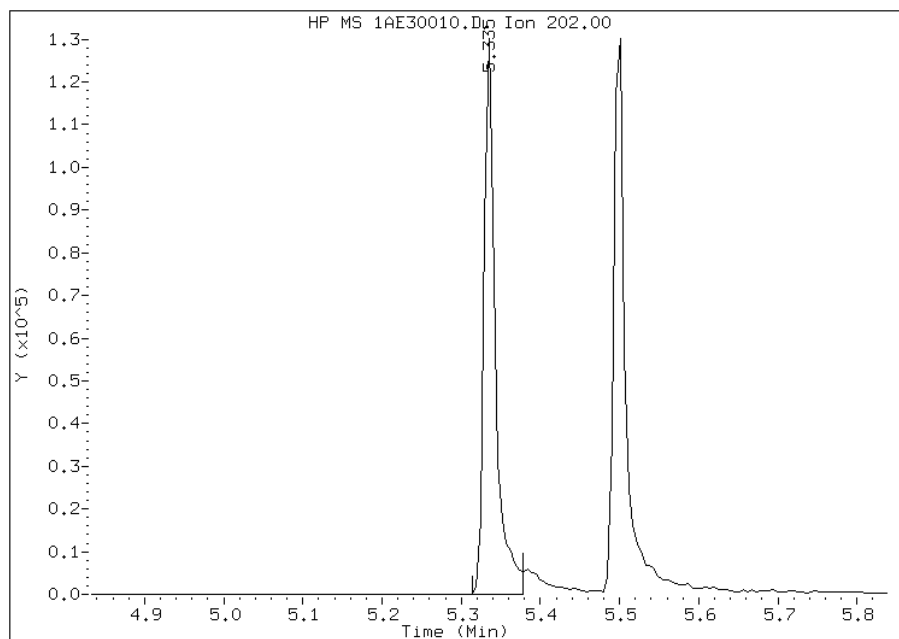


Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 16 Fluoranthene  
CAS #: 206-44-0  
Report Date: 06/03/2013

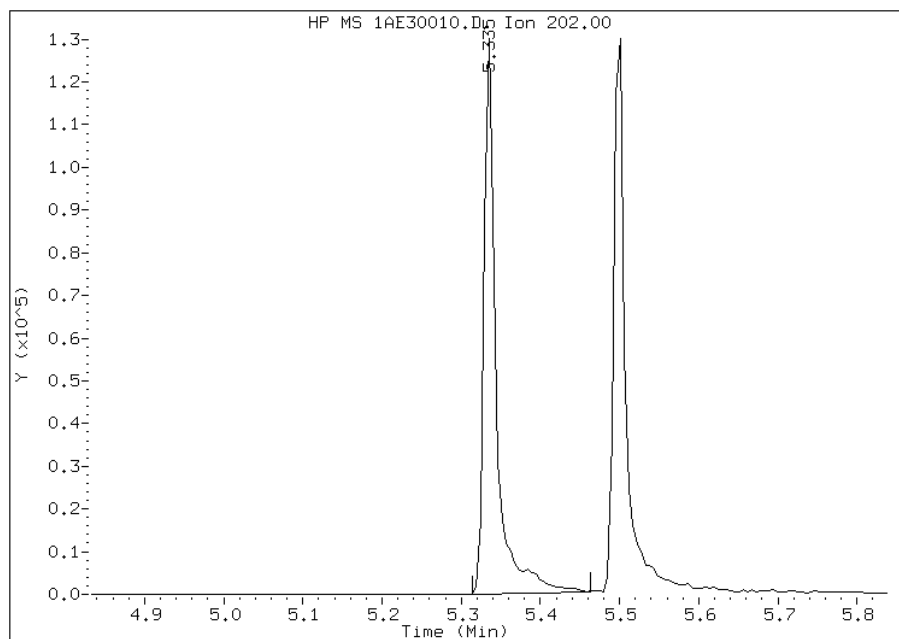
Processing Integration Results

RT: 5.34  
Response: 128087  
Amount: 9  
Conc: 9



Manual Integration Results

RT: 5.34  
Response: 137369  
Amount: 9  
Conc: 9



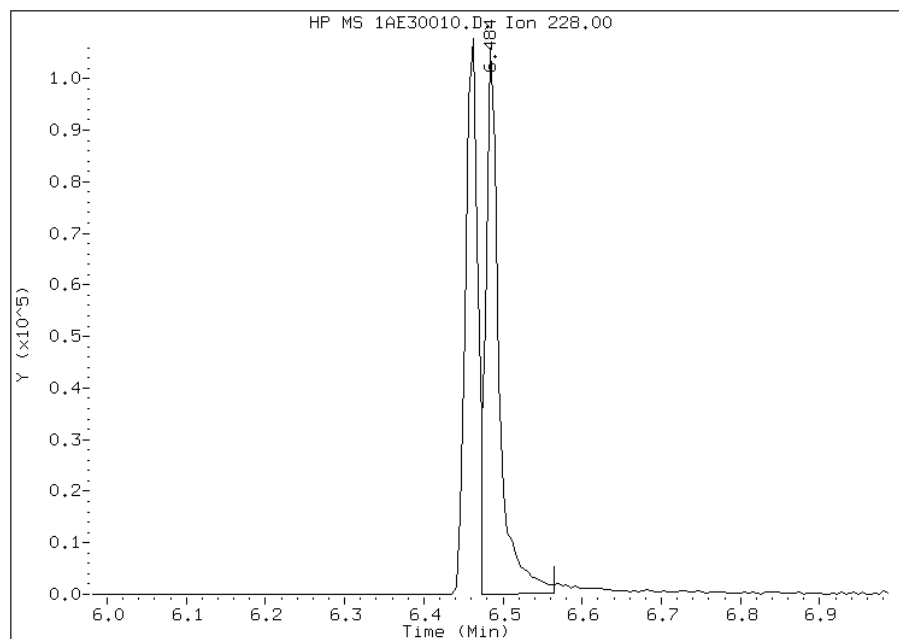
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 20 Chrysene  
CAS #: 218-01-9  
Report Date: 06/03/2013

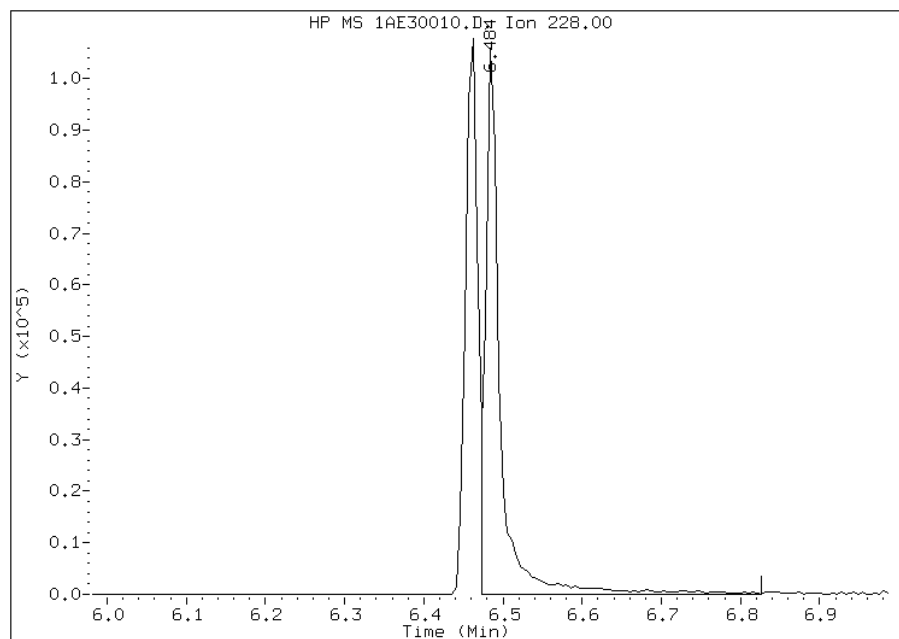
## Processing Integration Results

RT: 6.48  
Response: 127046  
Amount: 10  
Conc: 10



## Manual Integration Results

RT: 6.48  
Response: 138024  
Amount: 10  
Conc: 10



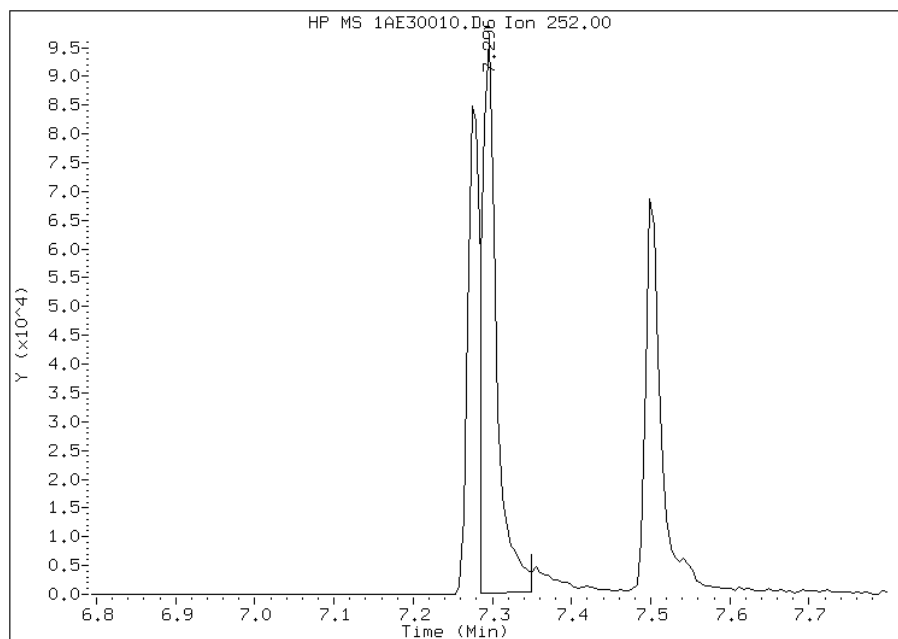
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/03/2013

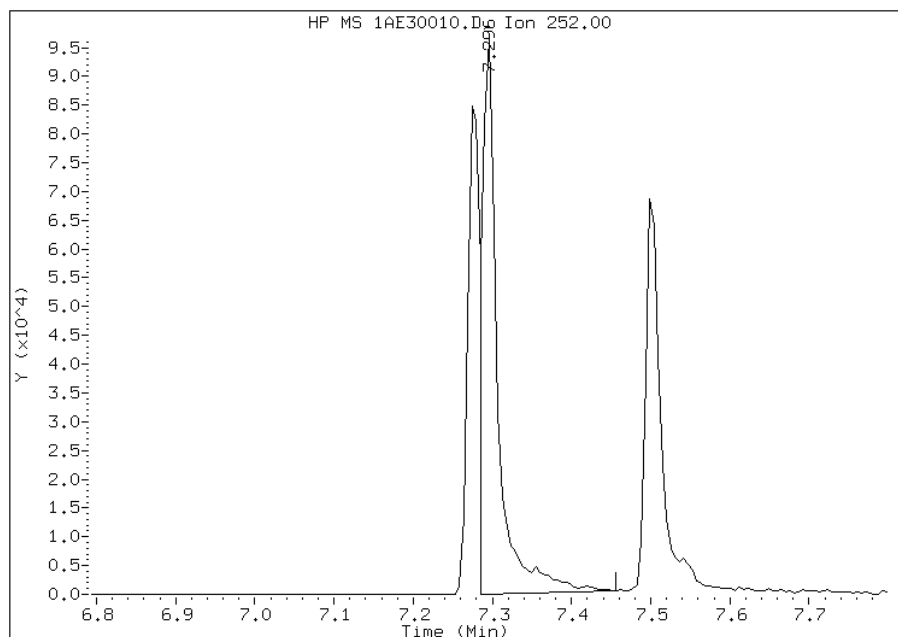
## Processing Integration Results

RT: 7.30  
Response: 125761  
Amount: 9  
Conc: 9



## Manual Integration Results

RT: 7.30  
Response: 135460  
Amount: 10  
Conc: 10



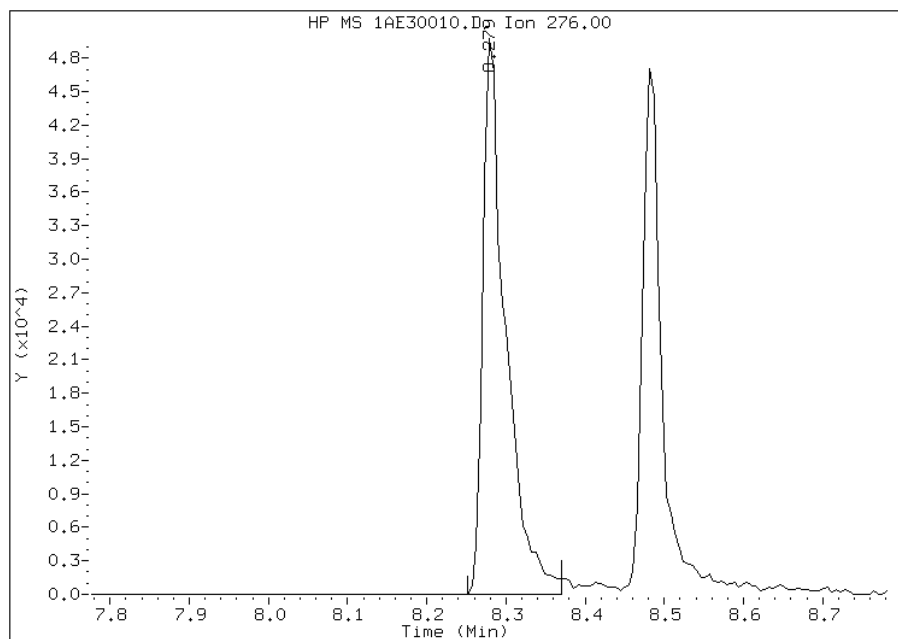
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

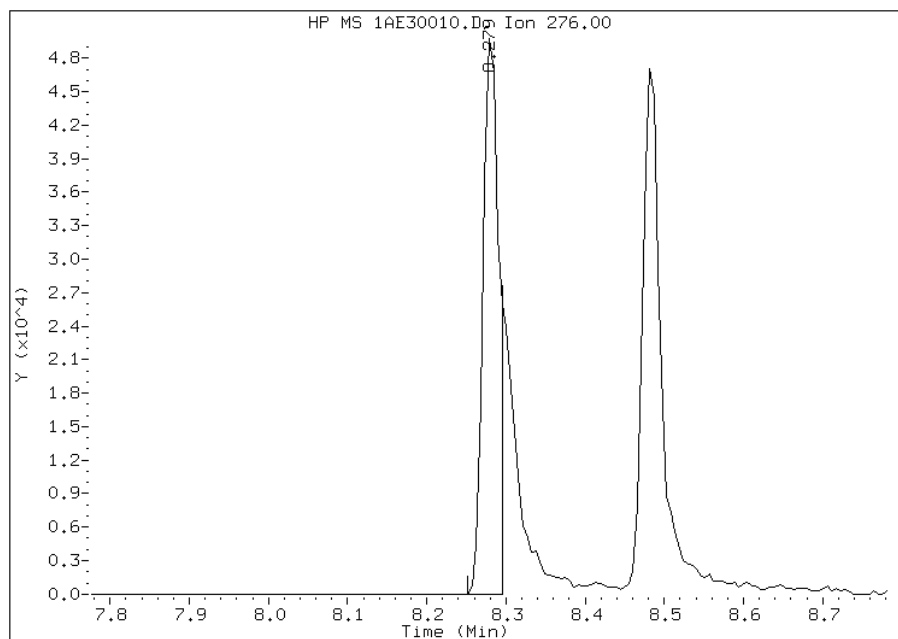
## Processing Integration Results

RT: 8.28  
Response: 99247  
Amount: 12  
Conc: 12



## Manual Integration Results

RT: 8.28  
Response: 68563  
Amount: 10  
Conc: 10



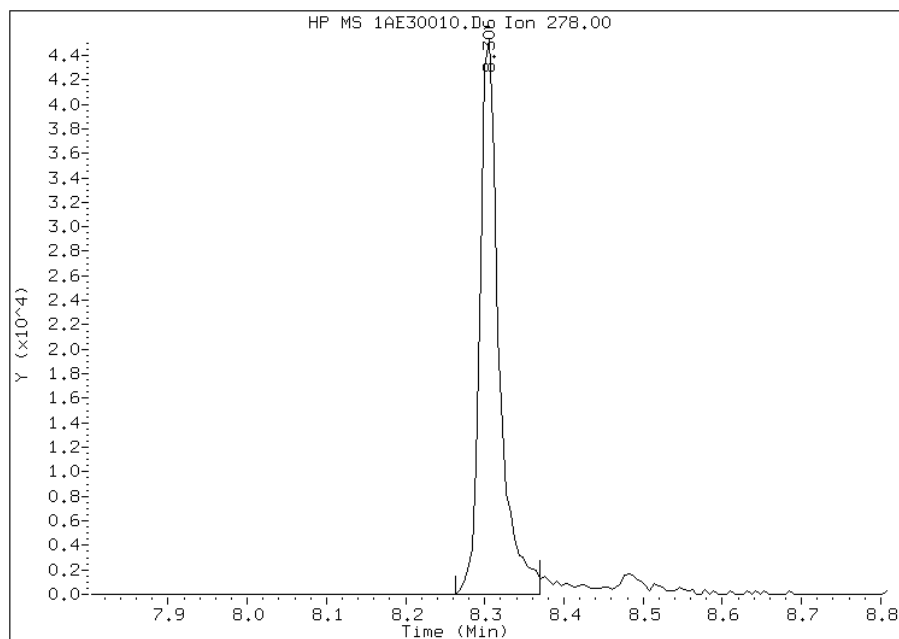
Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:42  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 06/03/2013

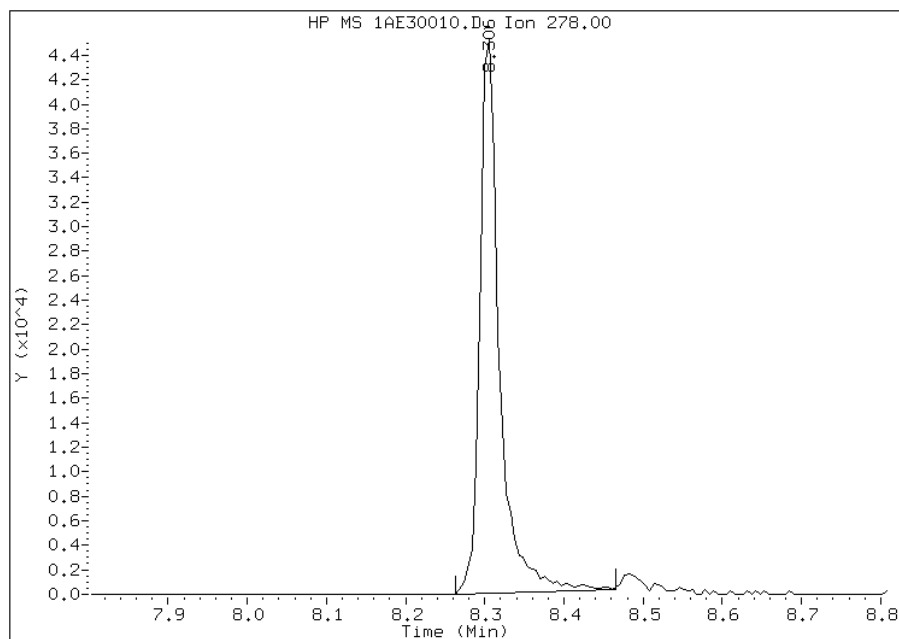
## Processing Integration Results

RT: 8.31  
Response: 75661  
Amount: 8  
Conc: 8



## Manual Integration Results

RT: 8.31  
Response: 77730  
Amount: 9  
Conc: 9



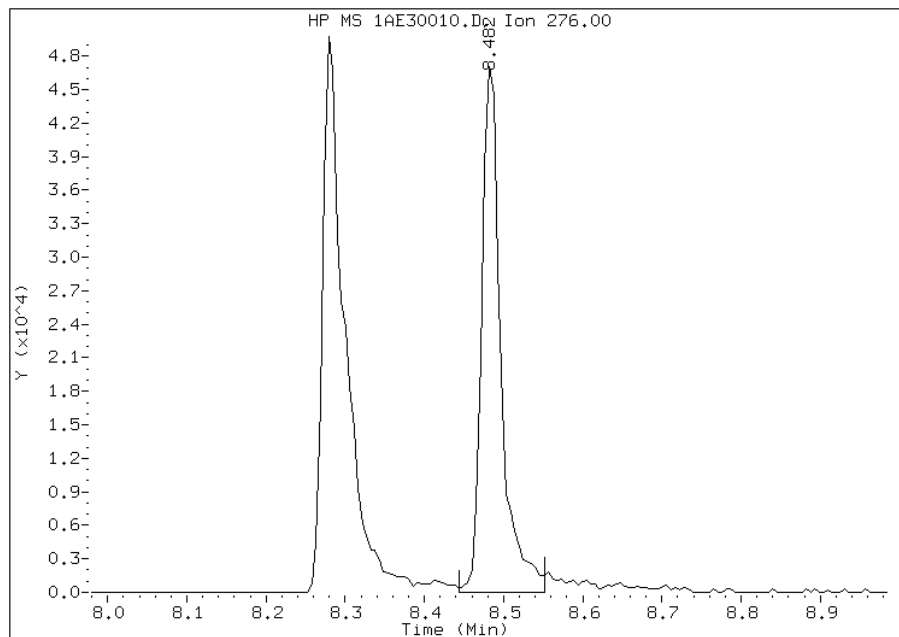
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:16  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30010.D  
Inj. Date and Time: 30-MAY-2013 16:08  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

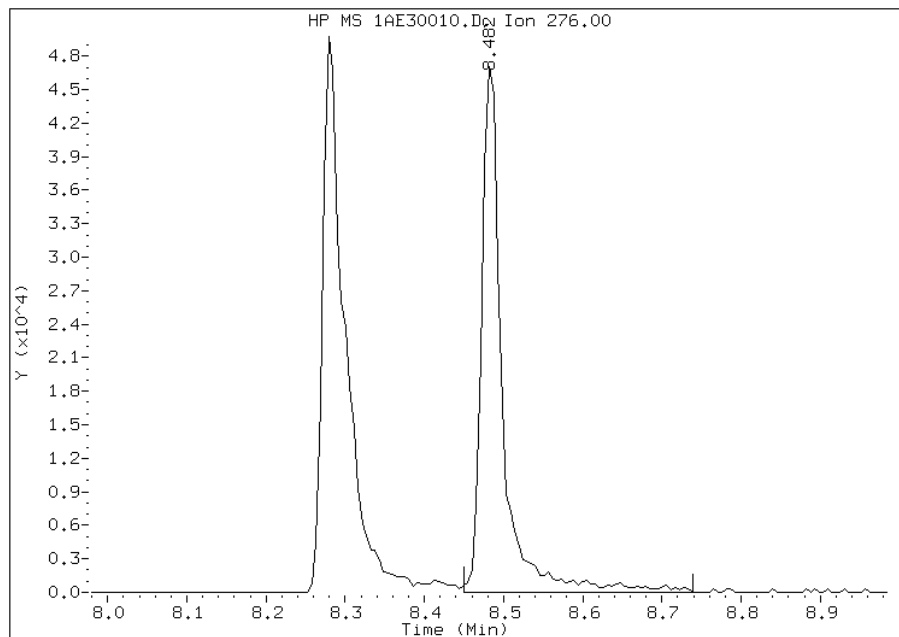
Processing Integration Results

RT: 8.48  
Response: 79317  
Amount: 9  
Conc: 9



Manual Integration Results

RT: 8.48  
Response: 86542  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:16  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30011.D  
 Lab Smp Id: IC-1559464  
 Inj Date : 30-MAY-2013 16:23  
 Operator : TP  
 Smp Info : IC-1559464  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 16:08 Cal File: 1AE30010.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.495	2.493	(1.000)	683623	40.0000	
* 7 Acenaphthene-d10	164	3.520	3.524	(1.000)	329852	40.0000	
* 11 Phenanthrene-d10	188	4.461	4.464	(1.000)	545975	40.0000	
\$ 15 o-Terphenyl	230	4.760	4.758	(1.067)	235919	30.0000	31.6576
* 19 Chrysene-d12	240	6.469	6.473	(1.000)	485152	40.0000	
* 24 Perylene-d12	264	7.548	7.552	(1.000)	433598	40.0000	
2 Naphthalene	128	2.505	2.503	(1.004)	453050	30.0000	30.7675
3 2-Methylnaphthalene	141	2.911	2.915	(1.167)	221764	30.0000	29.0086
4 1-Methylnaphthalene	142	2.965	2.968	(1.188)	318847	30.0000	30.9468(M)
5 1,1'-Biphenyl	154	3.195	3.193	(1.280)	327427	30.0000	27.2058
6 Acenaphthylene	152	3.435	3.433	(0.976)	443520	30.0000	27.8894
8 Acenaphthene	154	3.542	3.540	(1.006)	237217	30.0000	31.1813
9 Dibenzofuran	168	3.643	3.647	(1.035)	372324	30.0000	29.7336(M)
10 Fluorene	166	3.852	3.850	(1.094)	275316	30.0000	28.9273(M)
12 Phenanthrene	178	4.477	4.480	(1.004)	369301	30.0000	31.5610
13 Anthracene	178	4.514	4.512	(1.012)	394926	30.0000	30.5421(M)
16 Fluoranthene	202	5.337	5.340	(1.196)	430714	30.0000	30.3898(M)
17 Pyrene	202	5.502	5.500	(0.851)	424933	30.0000	30.3201
18 Benzo(a)anthracene	228	6.464	6.467	(0.999)	374261	30.0000	28.7159
20 Chrysene	228	6.491	6.489	(1.003)	425638	30.0000	29.8355(M)
21 Benzo(b)fluoranthene	252	7.281	7.279	(0.965)	394702	30.0000	30.2627
22 Benzo(k)fluoranthene	252	7.303	7.301	(0.967)	434205	30.0000	27.9540
23 Benzo(a)pyrene	252	7.506	7.509	(0.994)	347277	30.0000	34.0480
25 Indeno(1,2,3-cd)pyrene	276	8.286	8.294	(1.098)	273397	30.0000	35.7401(M)
26 Dibenzo(a,h)anthracene	278	8.312	8.321	(1.101)	303964	30.0000	30.0796
27 Benzo(g,h,i)perylene	276	8.494	8.503	(1.125)	306240	30.0000	31.0120(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE30011.D

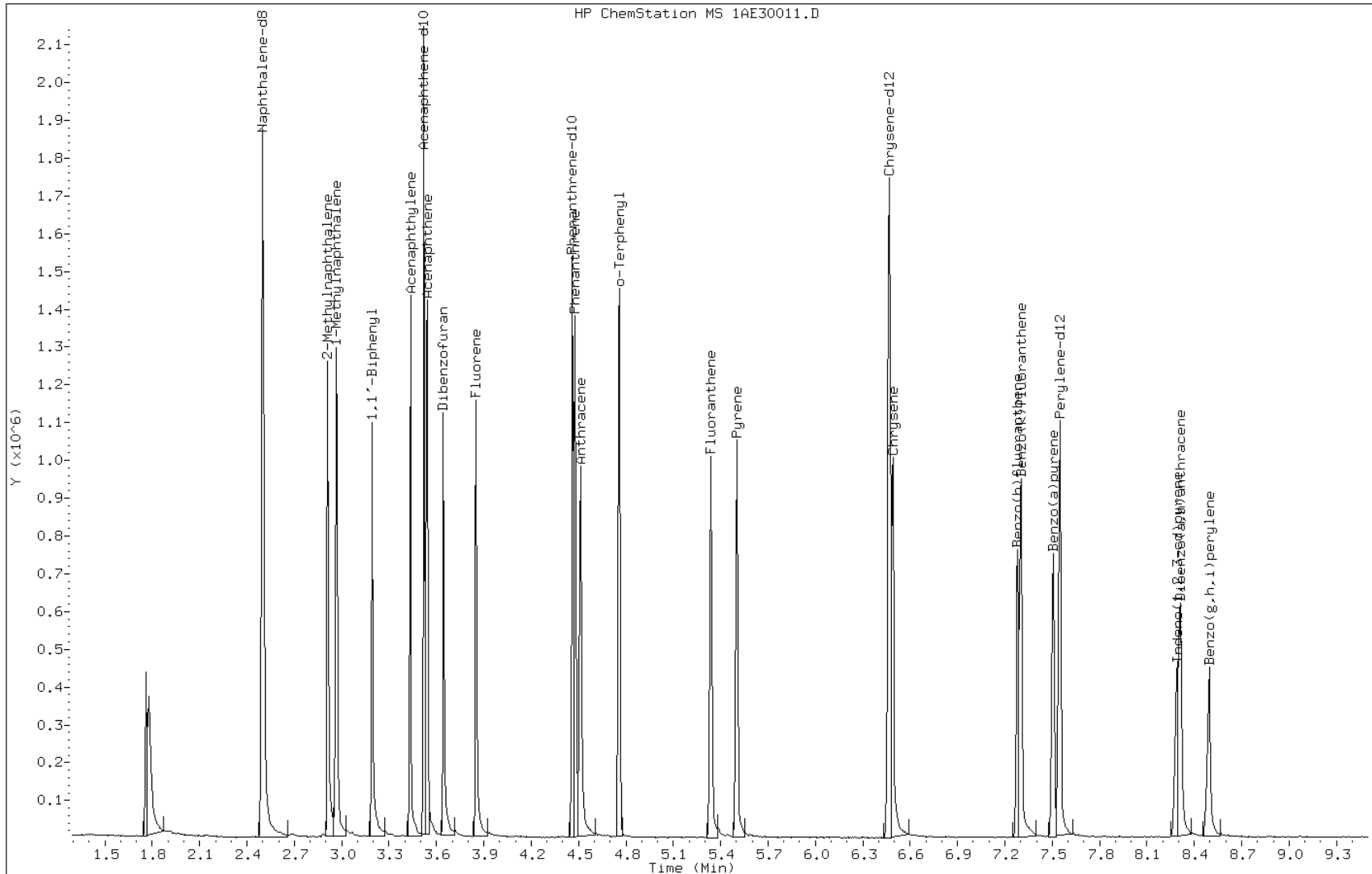
Date: 30-MAY-2013 16:23

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559464

Operator: TP



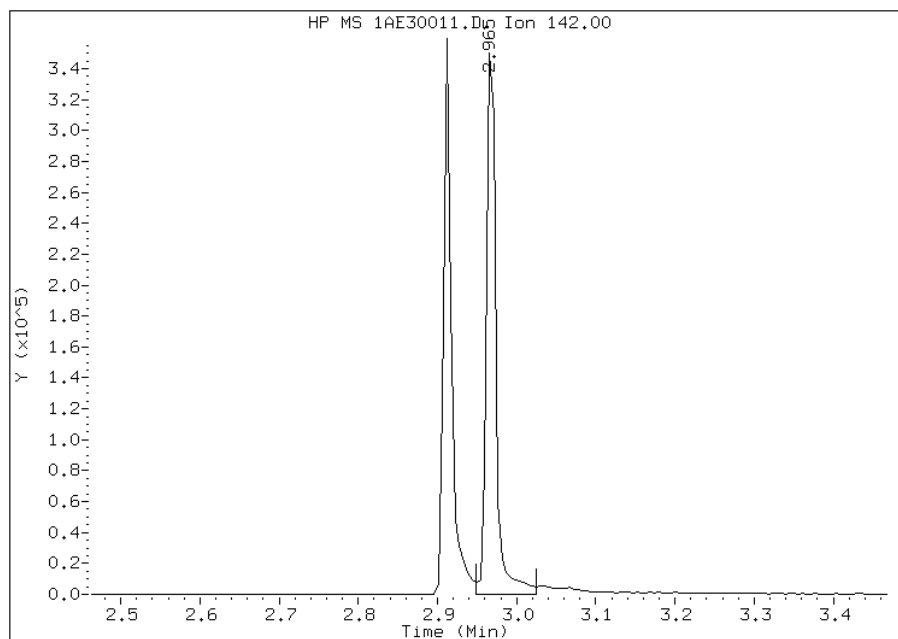


# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

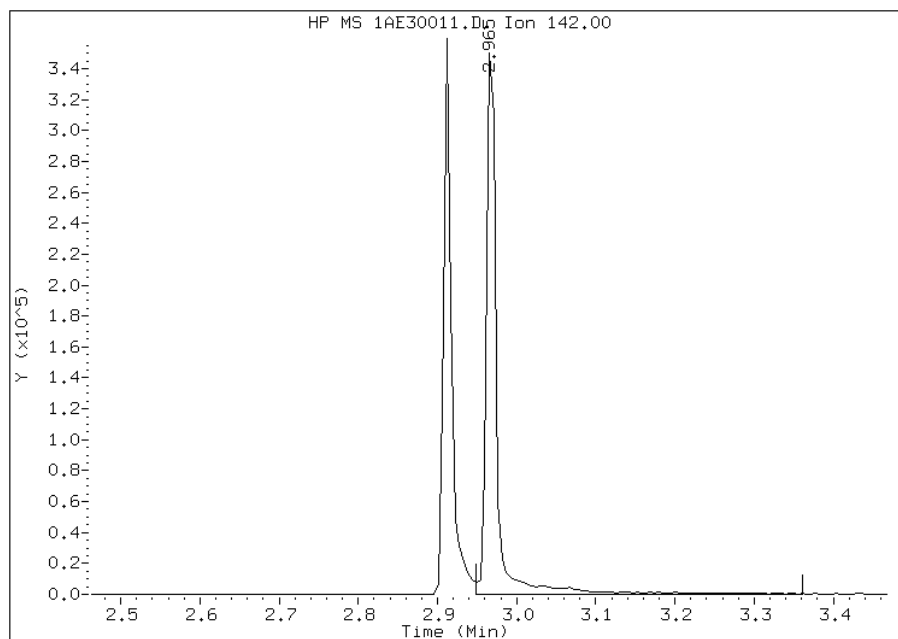
## Processing Integration Results

RT: 2.97  
Response: 290331  
Amount: 30  
Conc: 30



## Manual Integration Results

RT: 2.97  
Response: 318847  
Amount: 31  
Conc: 31



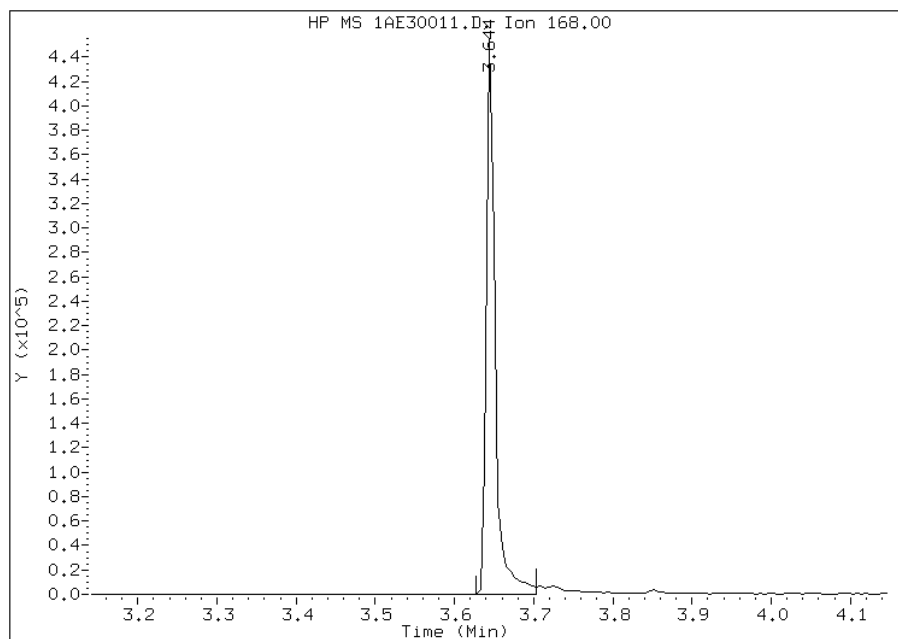
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:16  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

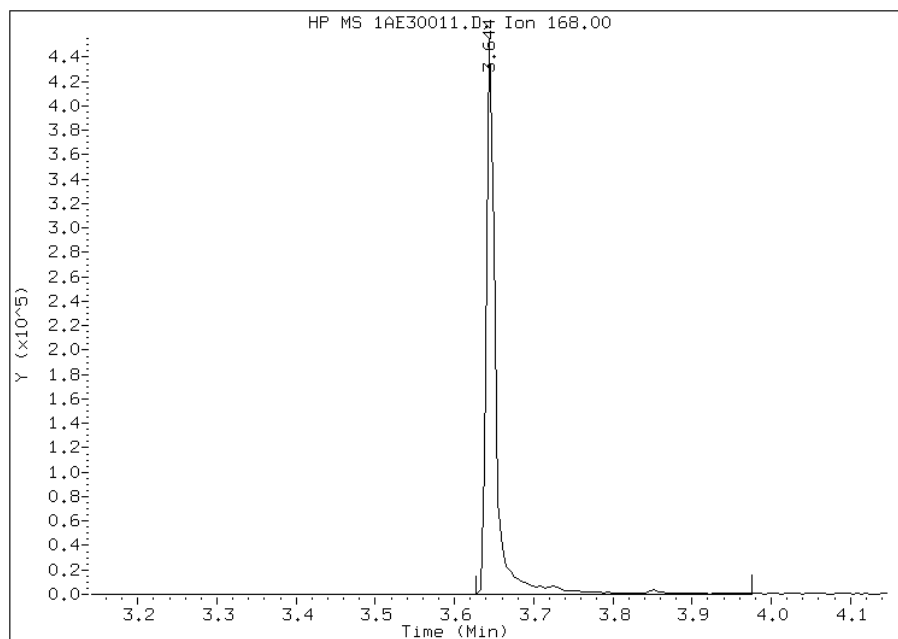
## Processing Integration Results

RT: 3.64  
Response: 343077  
Amount: 28  
Conc: 28



## Manual Integration Results

RT: 3.64  
Response: 372324  
Amount: 30  
Conc: 30



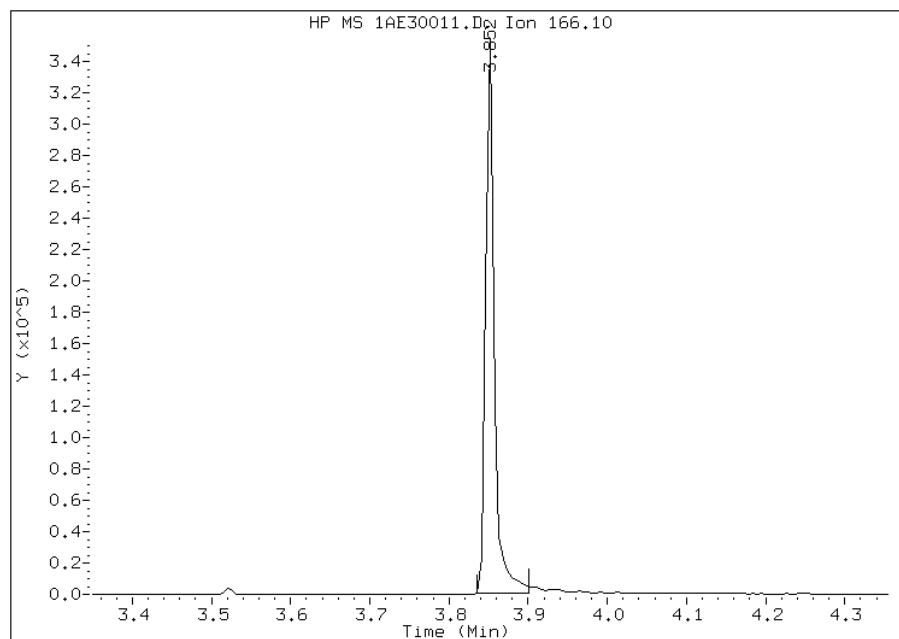
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:16  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 10 Fluorene  
CAS #: 86-73-7  
Report Date: 06/03/2013

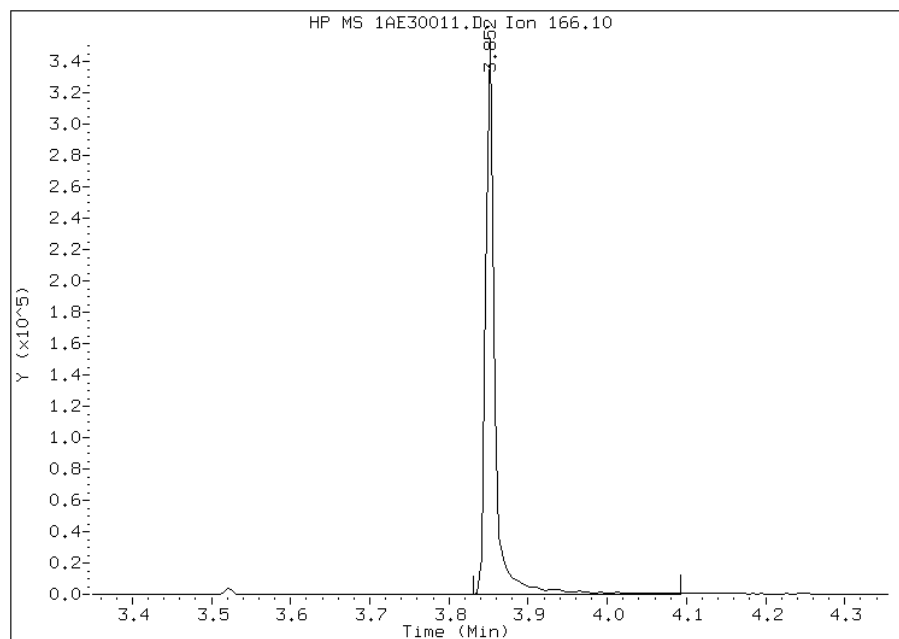
## Processing Integration Results

RT: 3.85  
Response: 258130  
Amount: 28  
Conc: 28



## Manual Integration Results

RT: 3.85  
Response: 275316  
Amount: 29  
Conc: 29



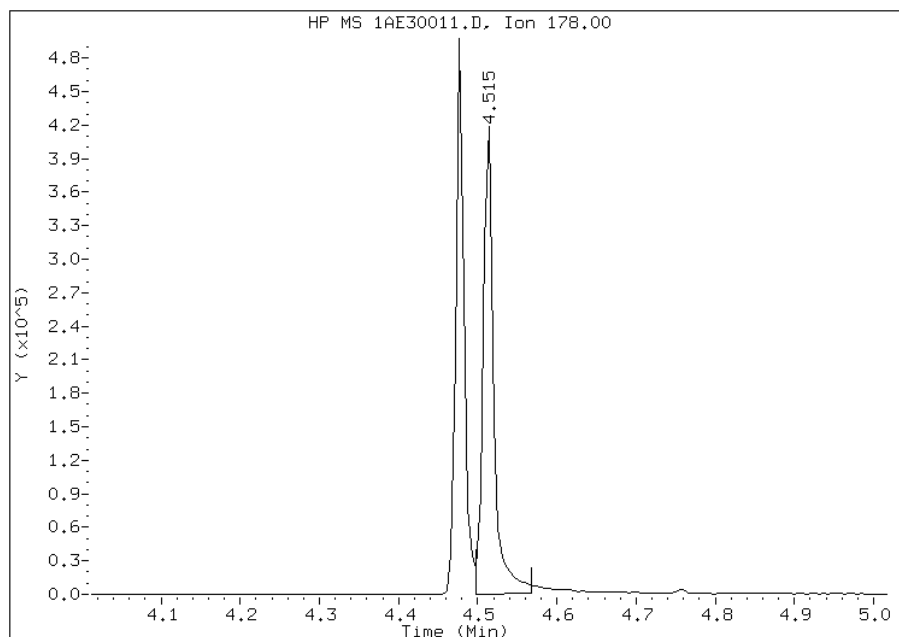
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:16  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 13 Anthracene  
CAS #: 120-12-7  
Report Date: 06/03/2013

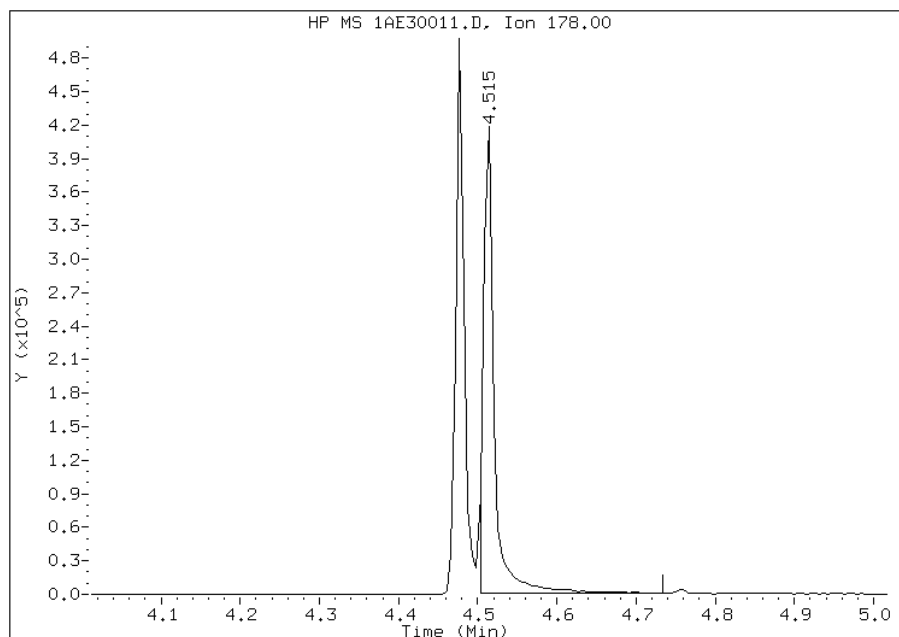
Processing Integration Results

RT: 4.51  
Response: 380057  
Amount: 30  
Conc: 30



Manual Integration Results

RT: 4.51  
Response: 394926  
Amount: 31  
Conc: 31



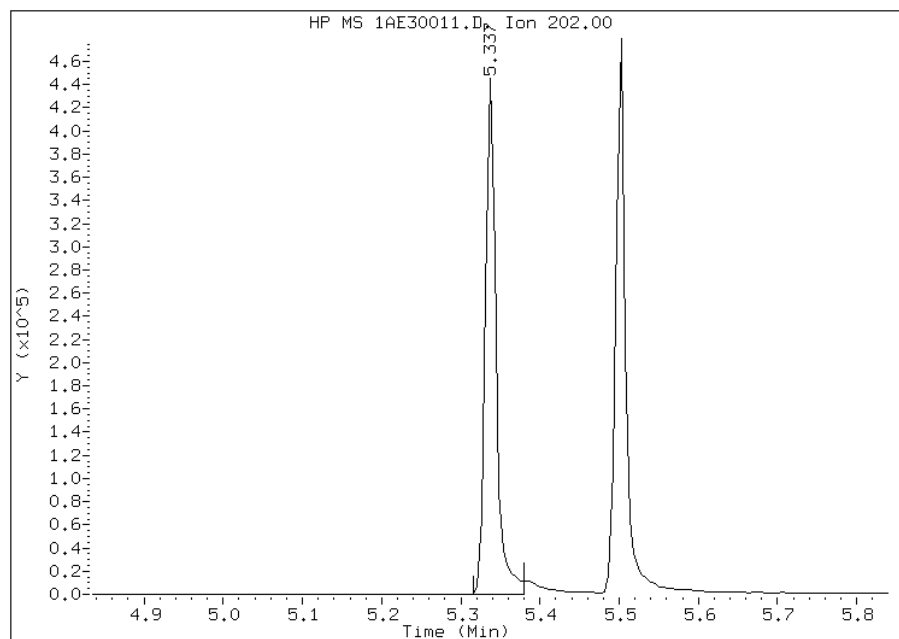
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 16 Fluoranthene  
CAS #: 206-44-0  
Report Date: 06/03/2013

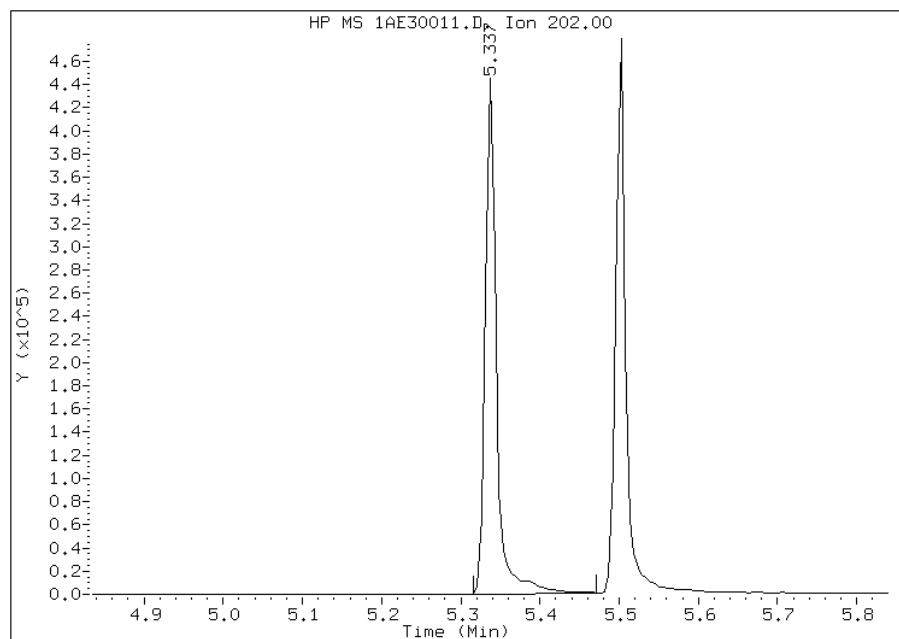
## Processing Integration Results

RT: 5.34  
Response: 411590  
Amount: 30  
Conc: 30



## Manual Integration Results

RT: 5.34  
Response: 430714  
Amount: 30  
Conc: 30



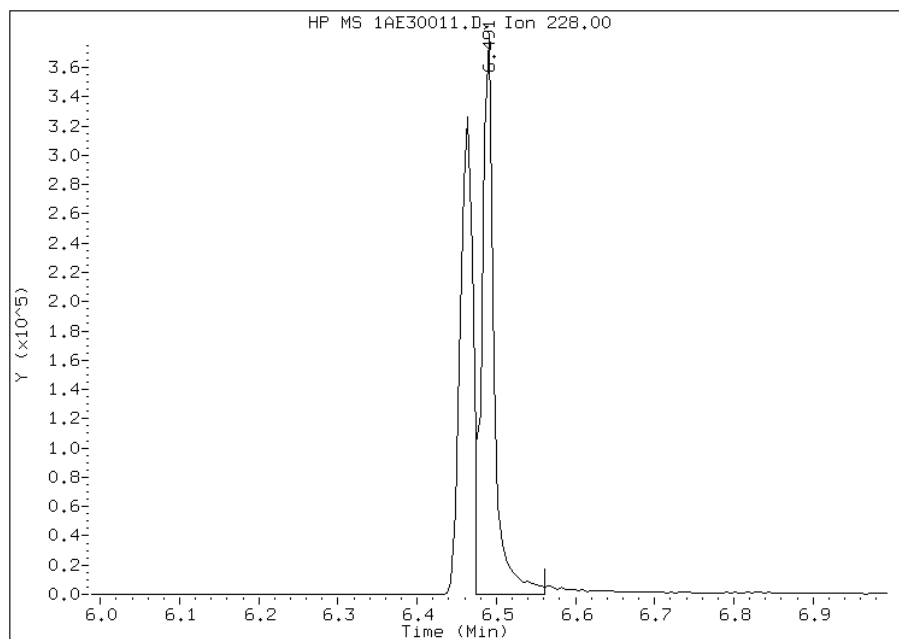
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 20 Chrysene  
CAS #: 218-01-9  
Report Date: 06/03/2013

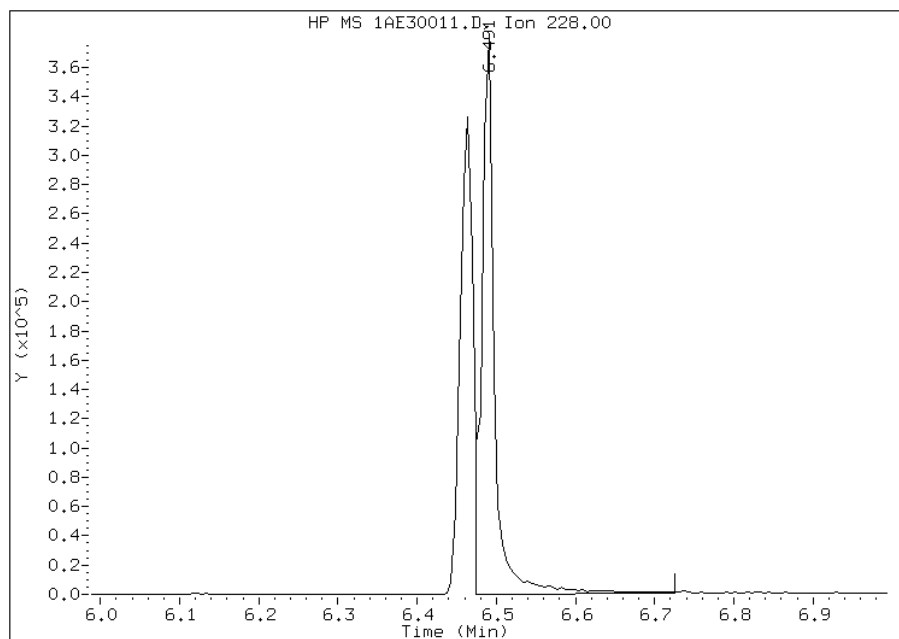
## Processing Integration Results

RT: 6.49  
Response: 407429  
Amount: 29  
Conc: 29



## Manual Integration Results

RT: 6.49  
Response: 425638  
Amount: 30  
Conc: 30



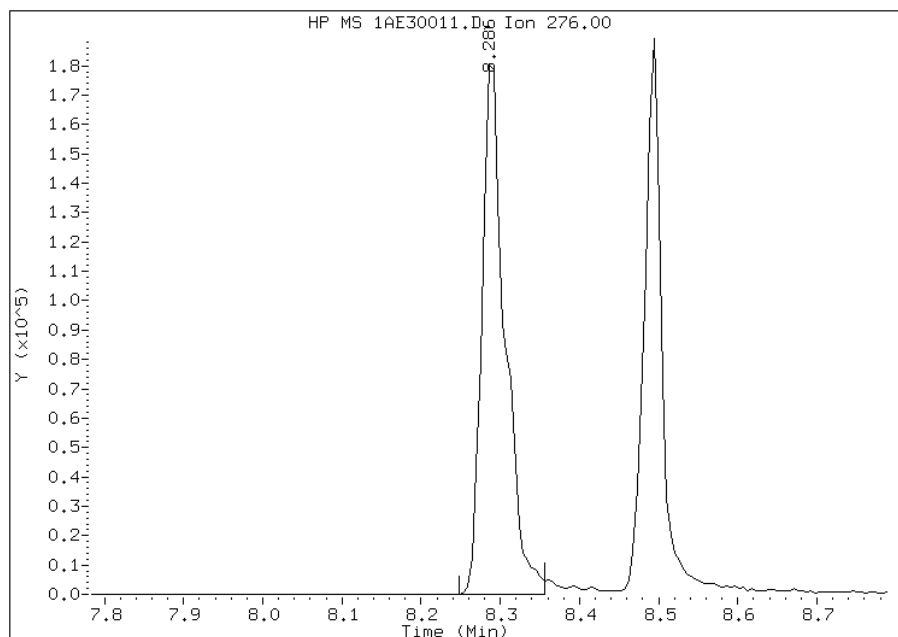
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

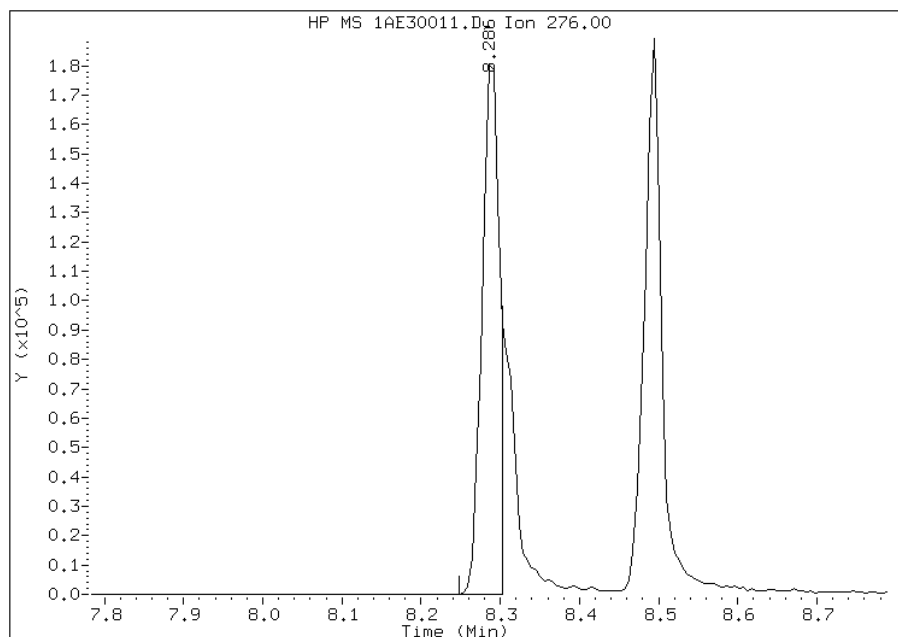
## Processing Integration Results

RT: 8.29  
Response: 364468  
Amount: 33  
Conc: 33



## Manual Integration Results

RT: 8.29  
Response: 273397  
Amount: 36  
Conc: 36



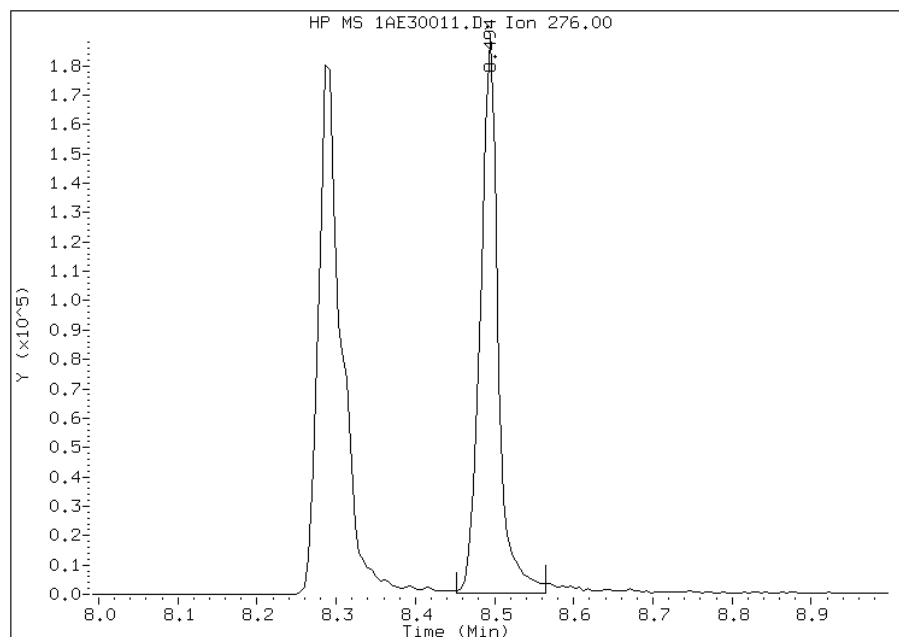
Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:42  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1AE30011.D  
Inj. Date and Time: 30-MAY-2013 16:23  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

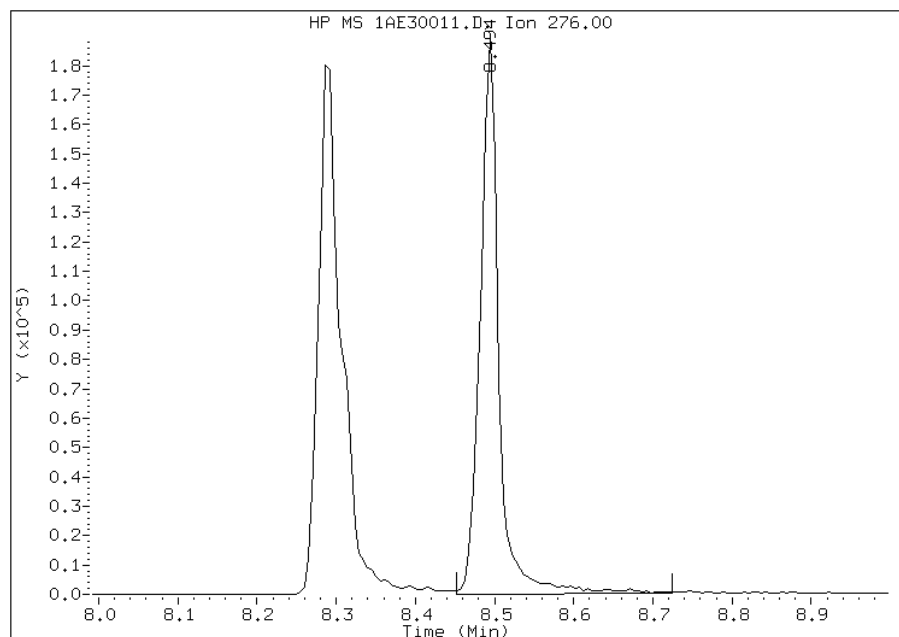
## Processing Integration Results

RT: 8.49  
Response: 292958  
Amount: 30  
Conc: 30



## Manual Integration Results

RT: 8.49  
Response: 306240  
Amount: 31  
Conc: 31



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:17  
Manual Integration Reason: Baseline Event



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30012.D  
 Lab Smp Id: IC-1559465  
 Inj Date : 30-MAY-2013 16:38  
 Operator : TP  
 Smp Info : IC-1559465  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30012.D  
 Meth Date : 03-Jun-2013 10:22 BSMA5973.i Quant Type: ISTD  
 Cal Date : 30-MAY-2013 16:23 Cal File: 1AE30011.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.496	2.493	(1.000)	689147	40.0000	
* 7 Acenaphthene-d10	164	3.522	3.524	(1.000)	317087	40.0000	
* 11 Phenanthrene-d10	188	4.462	4.464	(1.000)	534757	40.0000	
\$ 15 o-Terphenyl	230	4.761	4.758	(1.067)	412698	50.0000	56.5410(A)
* 19 Chrysene-d12	240	6.471	6.473	(1.000)	484361	40.0000	
* 24 Perylene-d12	264	7.550	7.552	(1.000)	359900	40.0000	
2 Naphthalene	128	2.507	2.503	(1.004)	808043	50.0000	54.4360(A)
3 2-Methylnaphthalene	141	2.913	2.915	(1.167)	408513	50.0000	52.8946(A)
4 1-Methylnaphthalene	142	2.966	2.968	(1.188)	547004	50.0000	52.6658(AM)
5 1,1'-Biphenyl	154	3.191	3.193	(1.278)	630960	50.0000	51.4328(AM)
6 Acenaphthylene	152	3.436	3.433	(0.976)	812251	50.0000	51.8031(A)
8 Acenaphthene	154	3.543	3.540	(1.006)	437520	50.0000	59.8257(A)
9 Dibenzofuran	168	3.645	3.647	(1.035)	617118	50.0000	50.6785(A)
10 Fluorene	166	3.853	3.850	(1.094)	474318	50.0000	51.0475(A)
12 Phenanthrene	178	4.478	4.480	(1.004)	658799	50.0000	57.4830(A)
13 Anthracene	178	4.515	4.512	(1.012)	686637	50.0000	54.2159(A)
16 Fluoranthene	202	5.338	5.340	(1.196)	700755	50.0000	50.4117(A)
17 Pyrene	202	5.504	5.500	(0.851)	696926	50.0000	49.8088
18 Benzo(a)anthracene	228	6.465	6.467	(0.999)	705326	50.0000	54.2059(A)
20 Chrysene	228	6.492	6.489	(1.003)	636573	50.0000	44.6940
21 Benzo(b)fluoranthene	252	7.283	7.279	(0.965)	561045	50.0000	50.7184(A)
22 Benzo(k)fluoranthene	252	7.304	7.301	(0.967)	693382	50.0000	53.6576(A)
23 Benzo(a)pyrene	252	7.512	7.509	(0.995)	532445	50.0000	62.8922(A)
25 Indeno(1,2,3-cd)pyrene	276	8.298	8.294	(1.099)	443933	50.0000	69.9173(AM)
26 Dibenzo(a,h)anthracene	278	8.324	8.321	(1.103)	447505	50.0000	53.2490(A)
27 Benzo(g,h,i)perylene	276	8.506	8.503	(1.127)	407273	50.0000	49.6104

QC Flag Legend

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

Data File: 1AE30012.D

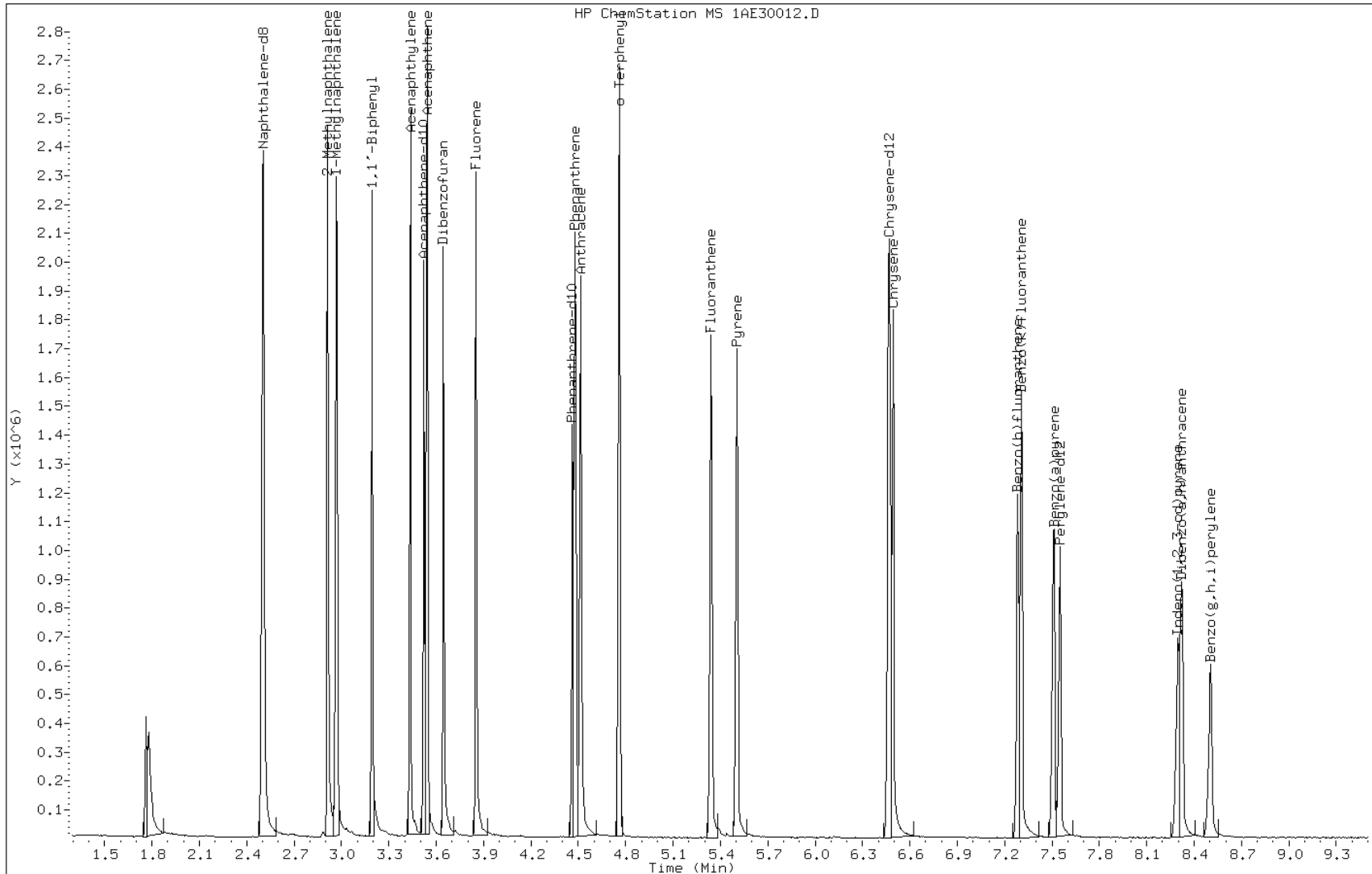
Date: 30-MAY-2013 16:38

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559465

Operator: TP

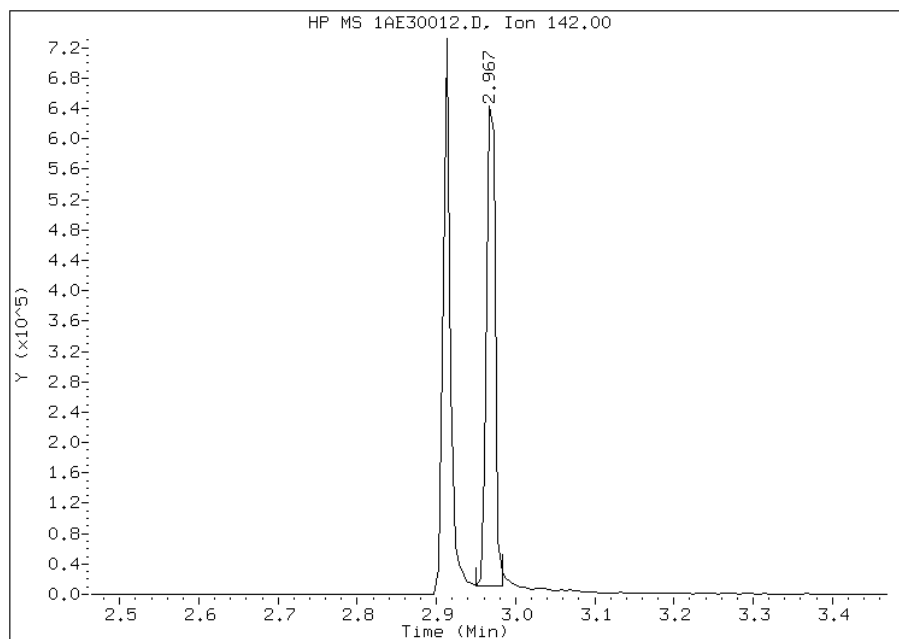


Manual Integration Report

Data File: 1AE30012.D  
Inj. Date and Time: 30-MAY-2013 16:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

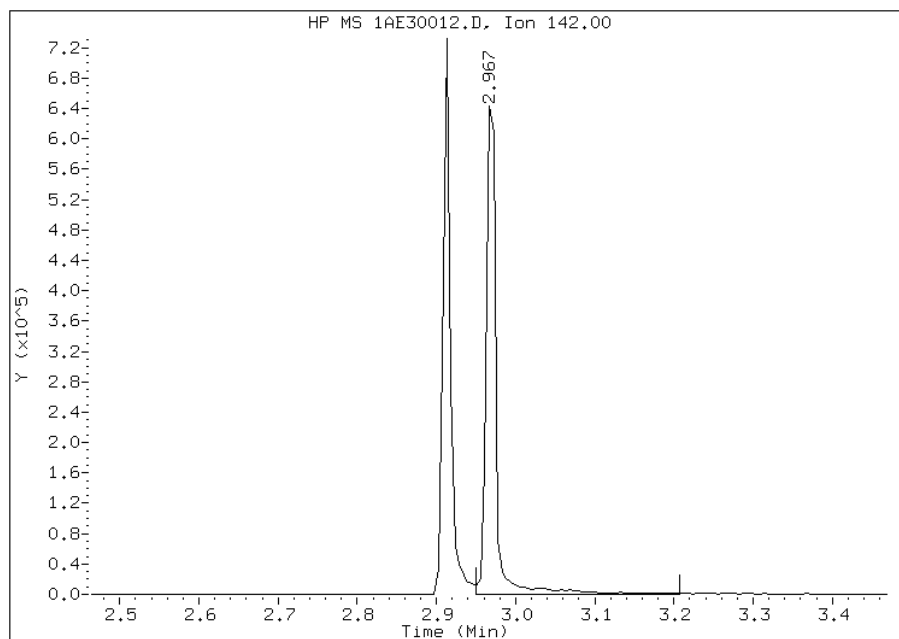
Processing Integration Results

RT: 2.97  
Response: 471199  
Amount: 51  
Conc: 51



Manual Integration Results

RT: 2.97  
Response: 547004  
Amount: 53  
Conc: 53



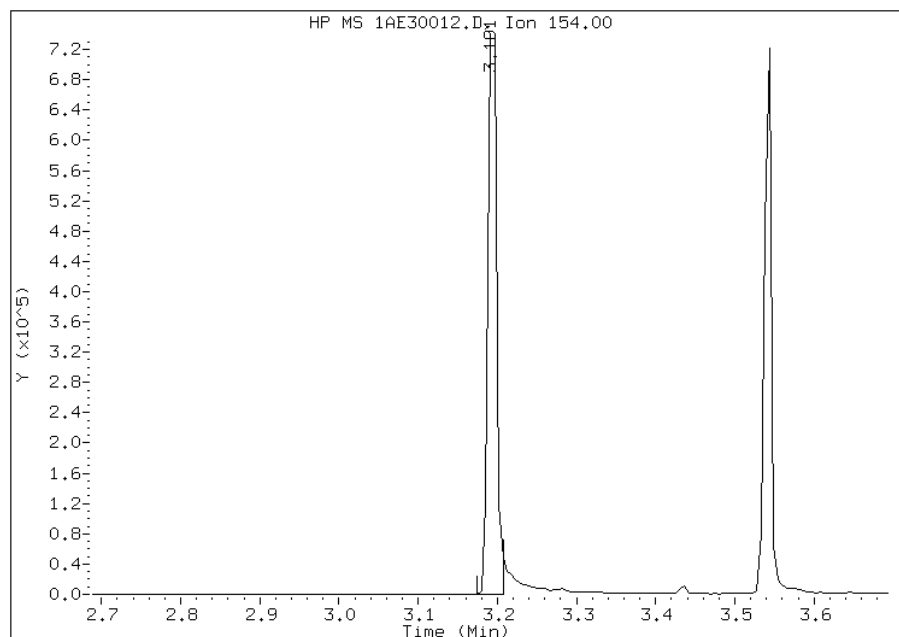
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30012.D  
Inj. Date and Time: 30-MAY-2013 16:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 5 1,1'-Biphenyl  
CAS #: 92-52-4  
Report Date: 06/03/2013

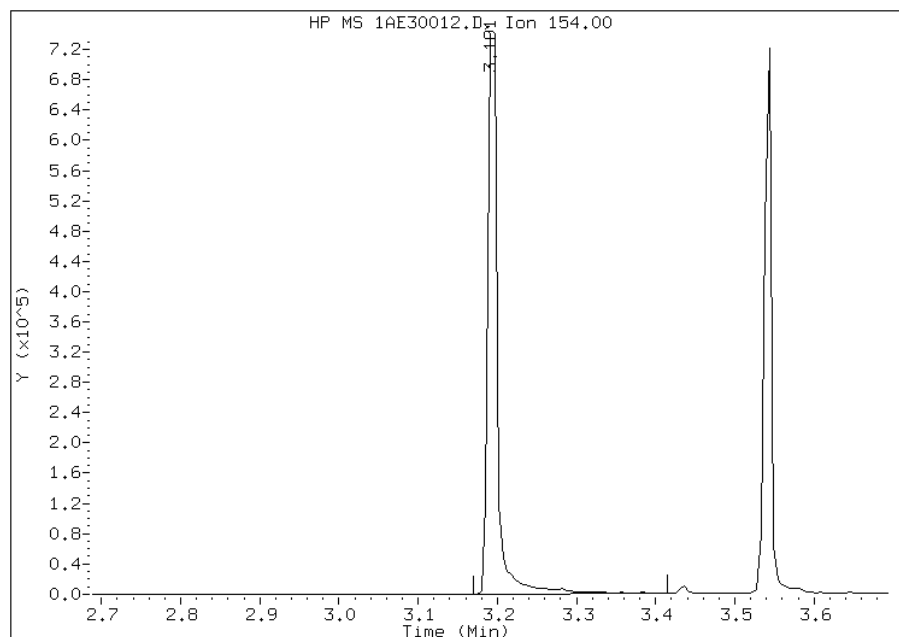
## Processing Integration Results

RT: 3.19  
Response: 563874  
Amount: 50  
Conc: 50



## Manual Integration Results

RT: 3.19  
Response: 630960  
Amount: 51  
Conc: 51



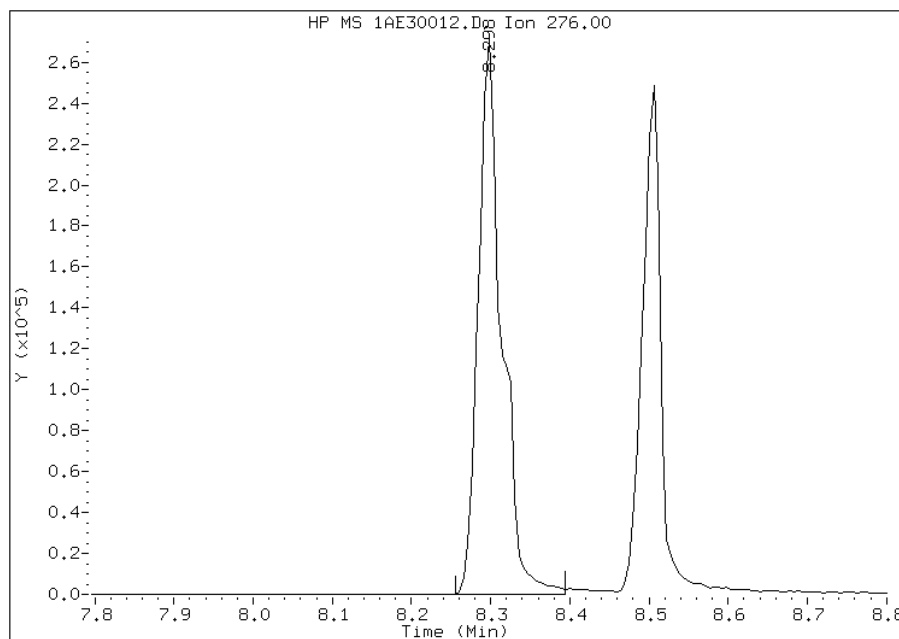
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30012.D  
Inj. Date and Time: 30-MAY-2013 16:38  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

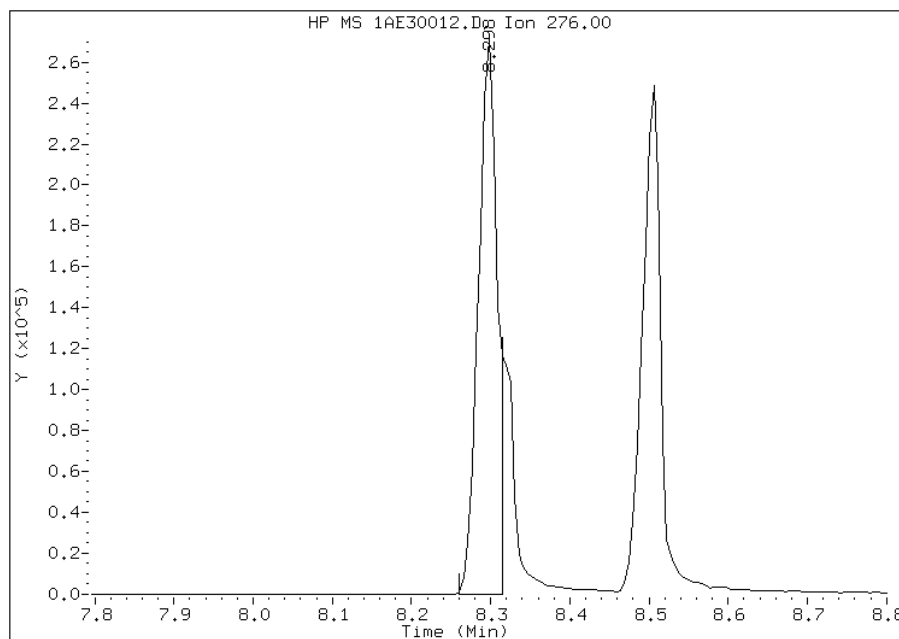
## Processing Integration Results

RT: 8.30  
Response: 555117  
Amount: 55  
Conc: 55



## Manual Integration Results

RT: 8.30  
Response: 443933  
Amount: 70  
Conc: 70



Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:41  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137704

SDG No.: 68090852-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9182 0.9509	0.9422 1.0286	1.0667	0.9369	0.9568	Ave	1.1288			0.0000	5.6		15.0				
2-Methylnaphthalene	0.6242 0.6258	0.5686 0.6710	0.6225	0.6315	0.6391	Ave	0.6261			0.0000	4.9		15.0				
1-Methylnaphthalene	0.7438 0.6277	0.4975 0.6372	0.5963	0.6068	0.6028	Ave	0.6160			0.0000	11.8		15.0				
Acenaphthylene	1.2563 1.6292	1.4148 1.6925	1.5322	1.5773	1.6316	Ave	1.5334			0.0000	9.9		15.0				
Acenaphthene	0.7430 0.9987	0.8575 1.0497	1.0996	0.9725	1.0102	Ave	0.9616			0.0000	12.7		15.0				
Fluorene	0.9904 1.3220	1.0977 1.3921	1.2331	1.2548	1.2987	Ave	1.2270			0.0000	11.3		15.0				
Phenanthrene	1.4131 1.1675	1.0733 1.2047	1.2101	1.0895	1.1143	Ave	1.1818			0.0000	9.8		15.0				
Anthracene	0.8123 1.1883	1.1171 1.2099	1.1168	1.0984	1.1211	Ave	1.0948			0.0000	12.0		15.0				
Fluoranthene	1.0490 1.3113	1.0871 1.3420	1.2157	1.1933	1.2571	Ave	1.2079			0.0000	9.0		15.0				
Pyrene	1.0885 1.1391	0.9218 1.1459	1.0775	1.0624	1.1258	Ave	1.0801			0.0000	7.1		15.0				
Benzo[a]anthracene	1.3846 1.1143	0.9995 1.1132	1.0089	1.0134	1.0870	Ave	1.1030			0.0000	12.1		15.0				
Chrysene	0.9124 1.1117	1.1529 1.1361	1.2178	1.1306	1.1120	Ave	1.1105			0.0000	8.5		15.0				
Benzo[b]fluoranthene	0.9101 1.0977	0.8395 1.1170	0.9076	0.9393	1.0683	Ave	0.9828			0.0000	11.1		15.0				
Benzo[k]fluoranthene	0.9706 1.1302	0.9697 1.2215	1.1208	1.1676	1.1031	Ave	1.0977			0.0000	8.7		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.: 680-90852-1 Analy Batch No.: 137704

SDG No.: 68090852-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

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[a]pyrene	0.5319 1.0385	0.7463 1.1113	0.9316	0.9755	1.0099	Lin2	0.0025	1.0051						0.9923			
Indeno[1,2,3-cd]pyrene	0.5693 1.0544	0.7359 1.1402	0.8970	0.9571	0.9660	None	0.0040	1.0698						0.9942			
Dibenz(a,h)anthracene	0.7117 0.9449	0.7154 0.9858	0.8240	0.8860	0.9085	Ave		0.8538		0.0000	12.6		15.0				
Benzo[g,h,i]perylene	0.8170 0.9805	0.7856 1.0513	0.9373	0.9390	0.9942	Ave		0.9293		0.0000	10.3		15.0				
o-Terphenyl	0.5070 0.6731	0.6108 0.6782	0.6532	0.6025	0.6369	Ave		0.6231		0.0000	9.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137704

SDG No.: 68090852-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137704/15	1CE22014.D
Level 2	IC 660-137704/16	1CE22015.D
Level 3	IC 660-137704/17	1CE22016.D
Level 4	IC 660-137704/18	1CE22017.D
Level 5	ICIS 660-137704/19	1CE22018.D
Level 6	IC 660-137704/20	1CE22019.D
Level 7	IC 660-137704/21	1CE22020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	10788 1475133	43167 2829693	277572	502511	1290268	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7334 970702	26053 1846051	161984	338697	861867	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8739 973704	22793 1753070	155163	325468	812801	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10091 1744024	43693 3262336	272410	595358	1503680	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5968 1069111	26483 2023281	195498	367076	930965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	7955 1415229	33899 2683311	219224	473626	1196881	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22296 2310027	62422 4422781	404697	781016	2021508	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12816 2351205	64974 4441751	373497	787403	2033868	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16551 2594572	63229 4926903	406556	855481	2280567	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	20607 2821005	64768 5350270	445351	946073	2585241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	26214 2759615	70230 5197458	417004	902407	2496189	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	17274 2753228	81010 5304178	503367	1006797	2553612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	17929 2780406	62459 5119876	393956	813573	2511123	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	19122 2862522	72150 5598875	486517	1011311	2593145	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	10479 2630366	55523 5093564	404398	844912	2373859	0.200 30.0	1.00 50.0	5.00	10.0	20.0



FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137704

SDG No.: 68090852-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/22/2013 16:16 Calibration End Date: 05/22/2013 18:05 Calibration ID: 2979

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Indeno[1,2,3-cd]pyrene	PRY	None	11215 2670728	54750 5226444	389350	828947	2270654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	14021 2393229	53230 4518350	357696	767380	2135605	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	16095 2483401	58451 4818870	406852	813279	2336946	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7999 1331814	35524 2489982	218457	431889	1155503	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

<p>Ave = Average ISTD Lin2 = Linear 1/conc^2 ISTD None = No Calib Curve</p>
---

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22014.D  
 Lab Smp Id: IC-1531396  
 Inj Date : 22-MAY-2013 16:16  
 Operator : SCC  
 Smp Info : IC-1531396  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 14 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	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
* 1 Naphthalene-d8		136	4.057	4.057	(1.000)	2349852	40.0000	
* 6 Acenaphthene-d10		164	5.145	5.145	(1.000)	1606435	40.0000	
* 10 Phenanthrene-d10		188	6.115	6.115	(1.000)	3155669	40.0000	
\$ 14 o-Terphenyl		230	6.362	6.362	(1.040)	7999	0.20000	0.1627
* 18 Chrysene-d12		240	8.074	8.074	(1.000)	3786414	40.0000	
* 23 Perylene-d12		264	9.421	9.421	(1.000)	3940046	40.0000	
2 Naphthalene		128	4.068	4.068	(1.003)	10788	0.20000	-0.0958(aQ)
3 2-Methylnaphthalene		142	4.492	4.492	(1.107)	7334	0.20000	0.1000
4 1-Methylnaphthalene		142	4.557	4.557	(1.123)	8739	0.20000	0.3297
5 Acenaphthylene		152	5.057	5.057	(0.983)	10091	0.20000	0.2511
7 Acenaphthene		154	5.168	5.168	(1.005)	5968	0.20000	0.4480(Q)
9 Fluorene		166	5.492	5.492	(1.067)	7955	0.20000	0.7701
11 Phenanthrene		178	6.127	6.127	(1.002)	22296	0.20000	0.2391
12 Anthracene		178	6.168	6.168	(1.009)	12816	0.20000	0.6465
13 Carbazole		167	6.268	6.268	(1.025)	8868	0.20000	0.1236
15 Fluoranthene		202	6.980	6.980	(1.141)	16551	0.20000	0.7298
16 Pyrene		202	7.151	7.151	(0.886)	20607	0.20000	0.2015
17 Benzo(a)anthracene		228	8.068	8.068	(0.999)	26214	0.20000	0.4841
19 Chrysene		228	8.098	8.098	(1.003)	17274	0.20000	0.1643
20 Benzo(b)fluoranthene		252	9.009	9.009	(0.956)	17929	0.20000	0.1852
21 Benzo(k)fluoranthene		252	9.039	9.039	(0.959)	19122	0.20000	0.1768
22 Benzo(a)pyrene		252	9.350	9.350	(0.993)	10479	0.20000	0.9543
24 Indeno(1,2,3-cd)pyrene		276	10.803	10.803	(1.147)	11215	0.20000	1.2876(M)
25 Dibenzo(a,h)anthracene		278	10.821	10.821	(1.149)	14021	0.20000	0.1667(M)
26 Benzo(g,h,i)perylene		276	11.221	11.221	(1.191)	16095	0.20000	0.1758(M)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CE22014.D

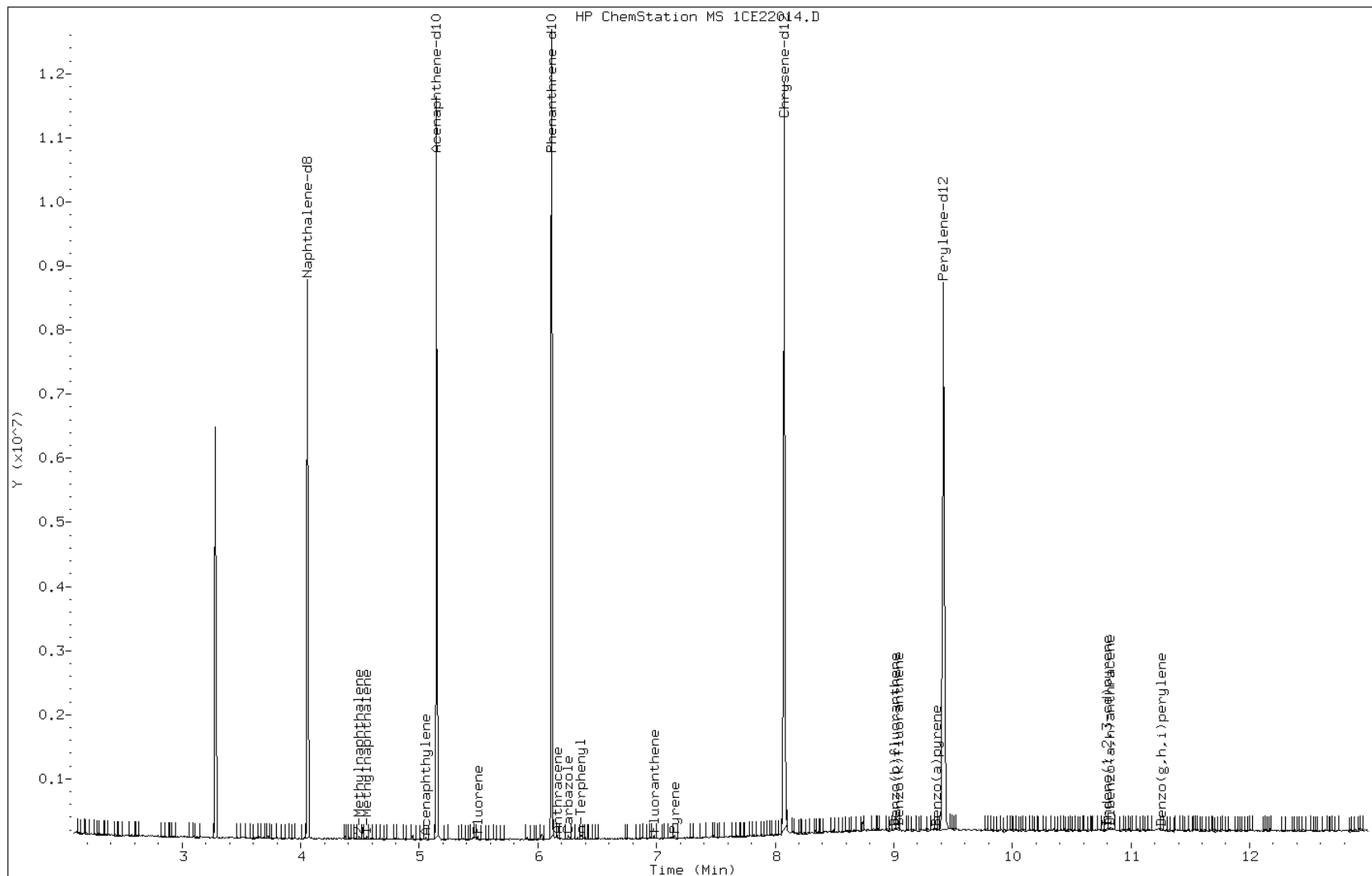
Date: 22-MAY-2013 16:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC

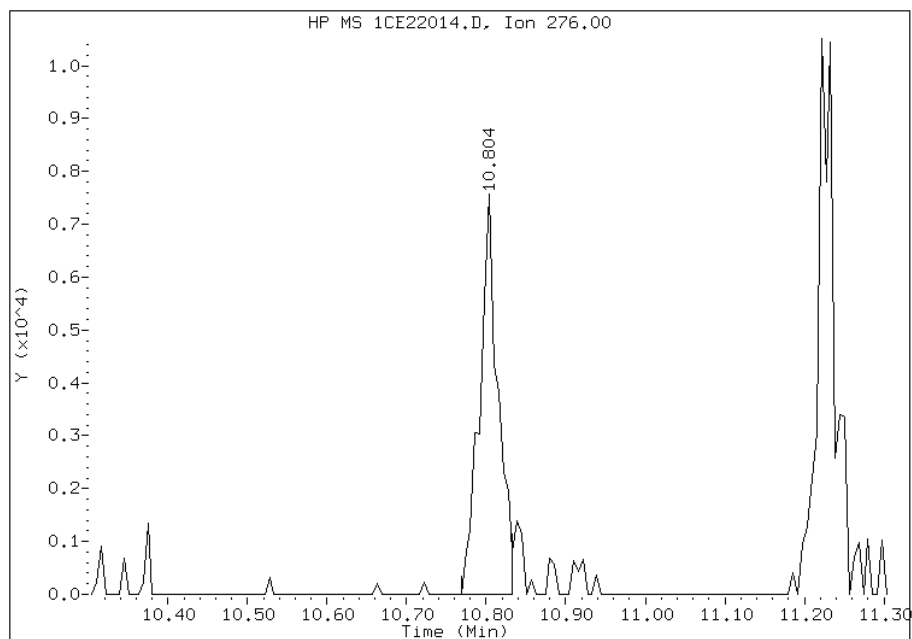


# Manual Integration Report

Data File: 1CE22014.D  
Inj. Date and Time: 22-MAY-2013 16:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

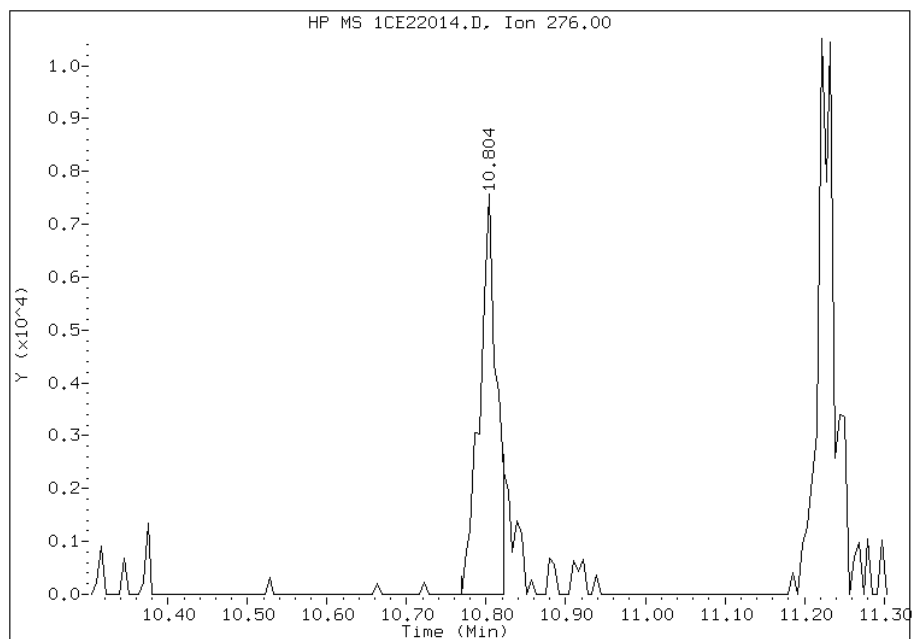
## Processing Integration Results

RT: 10.80  
Response: 12188  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 10.80  
Response: 11215  
Amount: 1  
Conc: 1



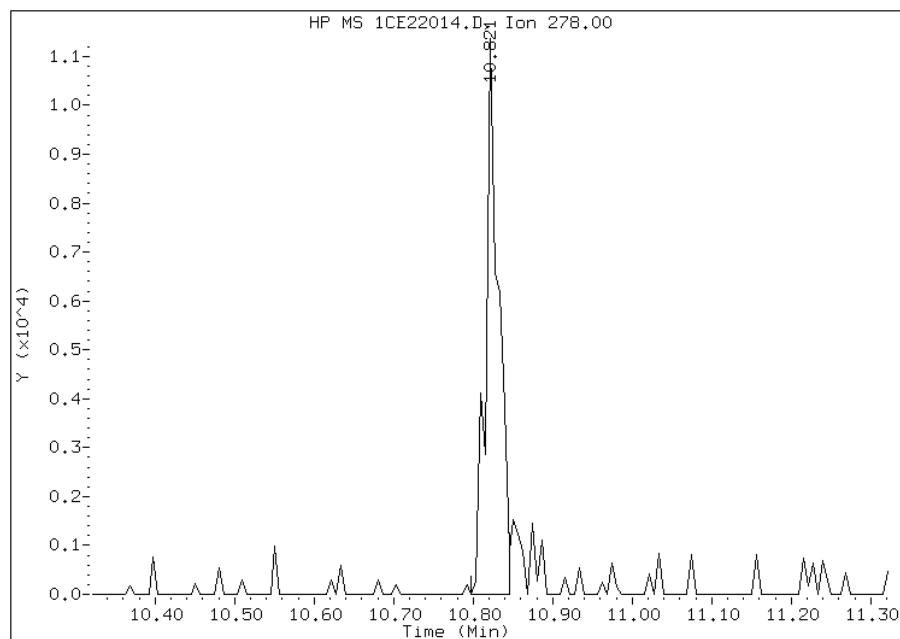
Manually Integrated By: cantins  
Modification Date: 23-May-2013 09:51  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CE22014.D  
Inj. Date and Time: 22-MAY-2013 16:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 05/23/2013

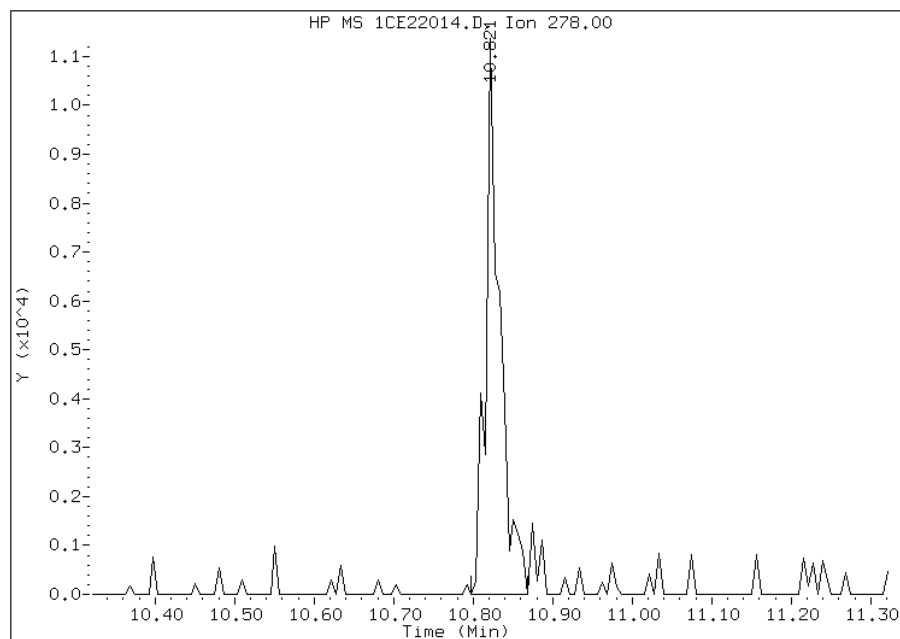
## Processing Integration Results

RT: 10.82  
Response: 12738  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.82  
Response: 14021  
Amount: 0  
Conc: 0



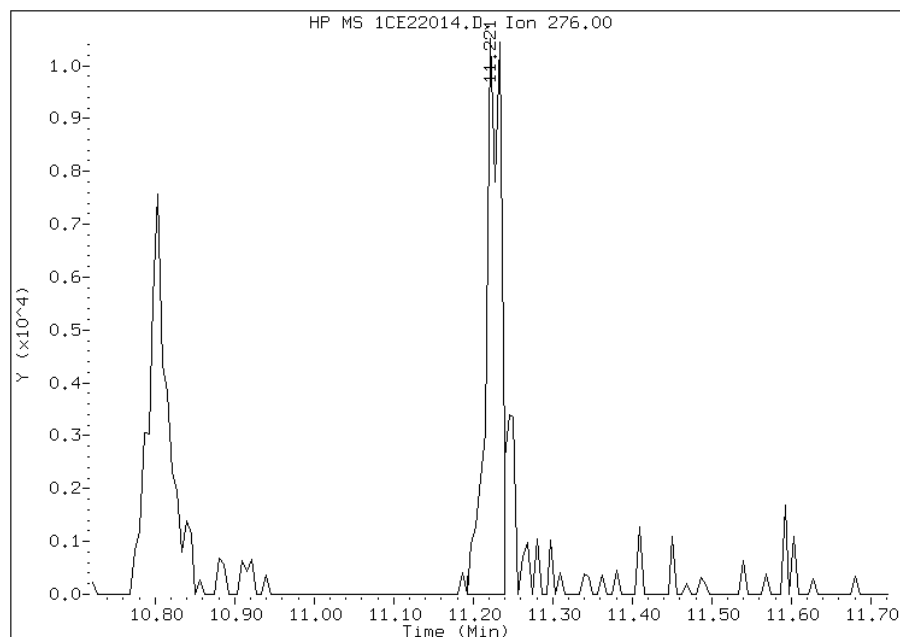
Manually Integrated By: cantins  
Modification Date: 23-May-2013 09:49  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CE22014.D  
Inj. Date and Time: 22-MAY-2013 16:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/23/2013

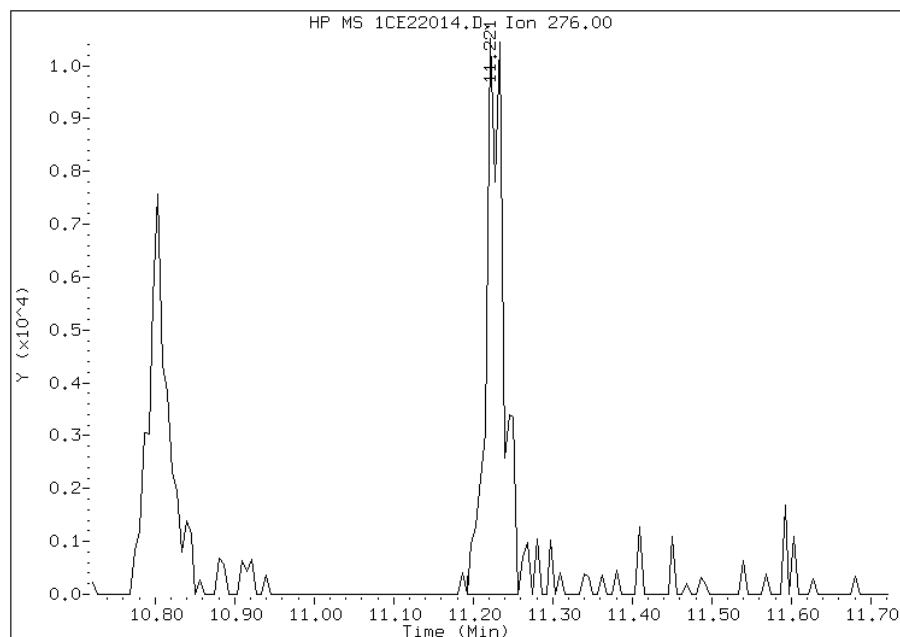
## Processing Integration Results

RT: 11.22  
Response: 13709  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 11.22  
Response: 16095  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 23-May-2013 09:49  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22015.D  
 Lab Smp Id: IC-1531398  
 Inj Date : 22-MAY-2013 16:34  
 Operator : SCC  
 Smp Info : IC-1531398  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 16:16 Cal File: 1CE22014.D  
 Als bottle: 15 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	1832664	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1235302	40.0000	
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2326462	40.0000	
\$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	35524	1.00000	0.9802
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	2810637	40.0000	
* 23 Perylene-d12	264	9.415	9.415	(1.000)	2976078	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	43167	1.00000	0.7579(Q)
3 2-Methylnaphthalene	142	4.492	4.492	(1.107)	26053	1.00000	0.8408
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	22793	1.00000	0.9083(Q)
5 Acenaphthylene	152	5.057	5.057	(0.983)	43693	1.00000	0.9876
7 Acenaphthene	154	5.163	5.163	(1.003)	26483	1.00000	1.1282(Q)
9 Fluorene	166	5.492	5.492	(1.067)	33899	1.00000	1.4179
11 Phenanthrene	178	6.127	6.127	(1.002)	62422	1.00000	0.9081
12 Anthracene	178	6.163	6.163	(1.008)	64974	1.00000	1.4346
13 Carbazole	167	6.268	6.268	(1.025)	47959	1.00000	0.9067
15 Fluoranthene	202	6.980	6.980	(1.141)	63229	1.00000	1.3820
16 Pyrene	202	7.151	7.151	(0.886)	64768	1.00000	0.8533
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	70230	1.00000	1.1468
19 Chrysene	228	8.098	8.098	(1.003)	81010	1.00000	1.0381
20 Benzo(b)fluoranthene	252	9.009	9.009	(0.957)	62459	1.00000	0.8541
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.960)	72150	1.00000	0.8834
22 Benzo(a)pyrene	252	9.351	9.351	(0.993)	55523	1.00000	1.5314
24 Indeno(1,2,3-cd)pyrene	276	10.798	10.798	(1.147)	54750	1.00000	1.8337(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.827	(1.150)	53230	1.00000	0.8379(M)
26 Benzo(g,h,i)perylene	276	11.227	11.227	(1.192)	58451	1.00000	0.8454

QC Flag Legend

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

Data File: 1CE22015.D

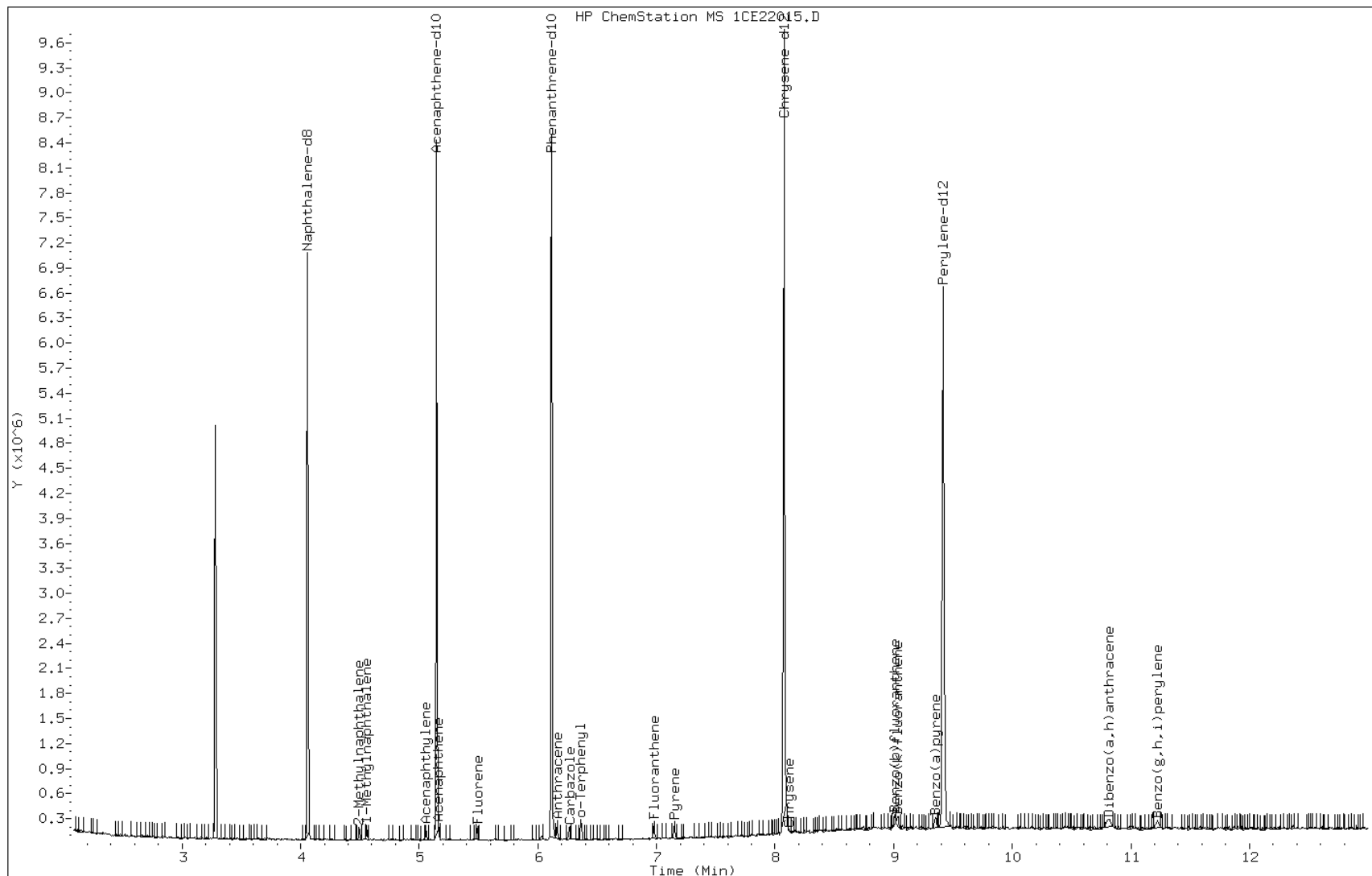
Date: 22-MAY-2013 16:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC



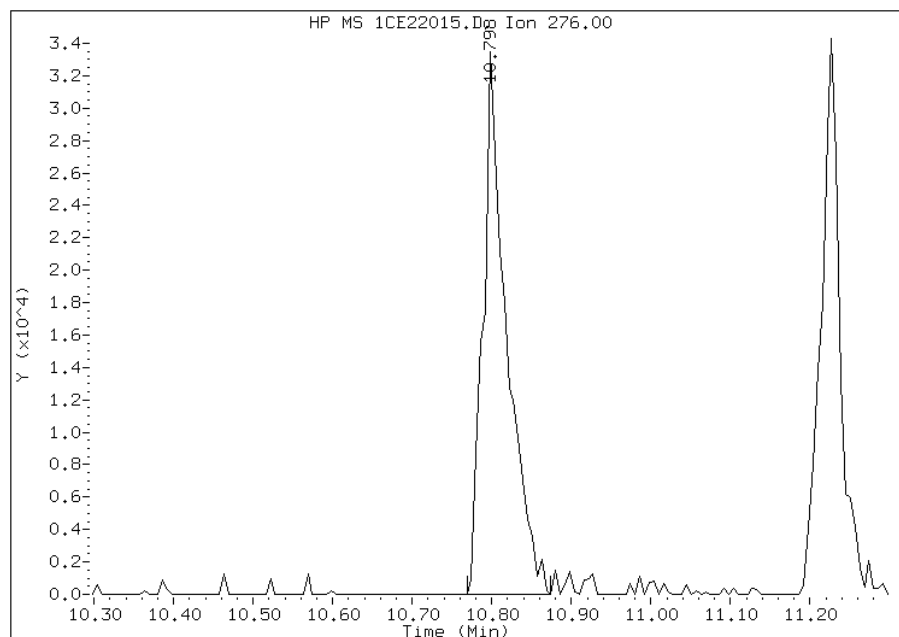


# Manual Integration Report

Data File: 1CE22015.D  
Inj. Date and Time: 22-MAY-2013 16:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

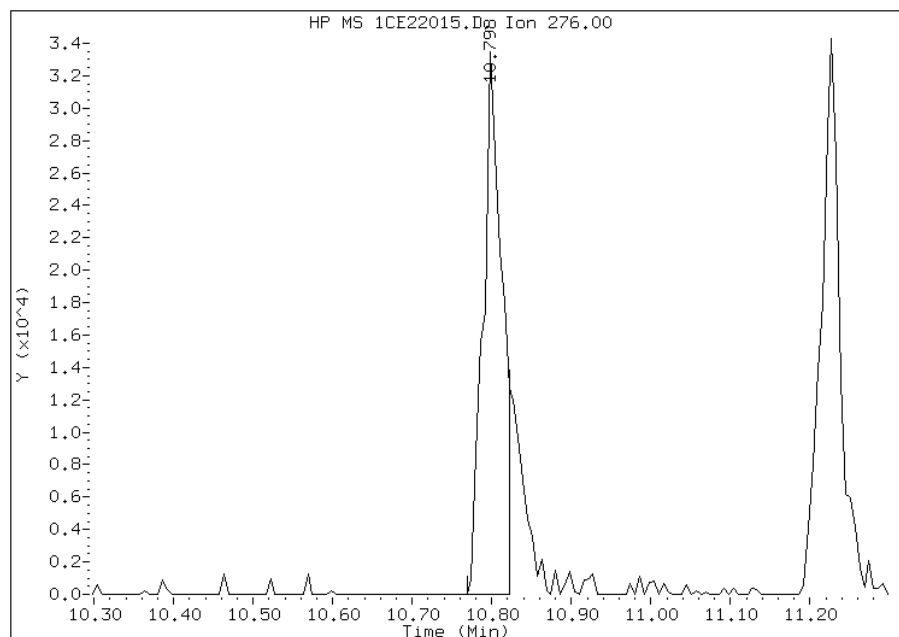
## Processing Integration Results

RT: 10.80  
Response: 69013  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 10.80  
Response: 54750  
Amount: 2  
Conc: 2



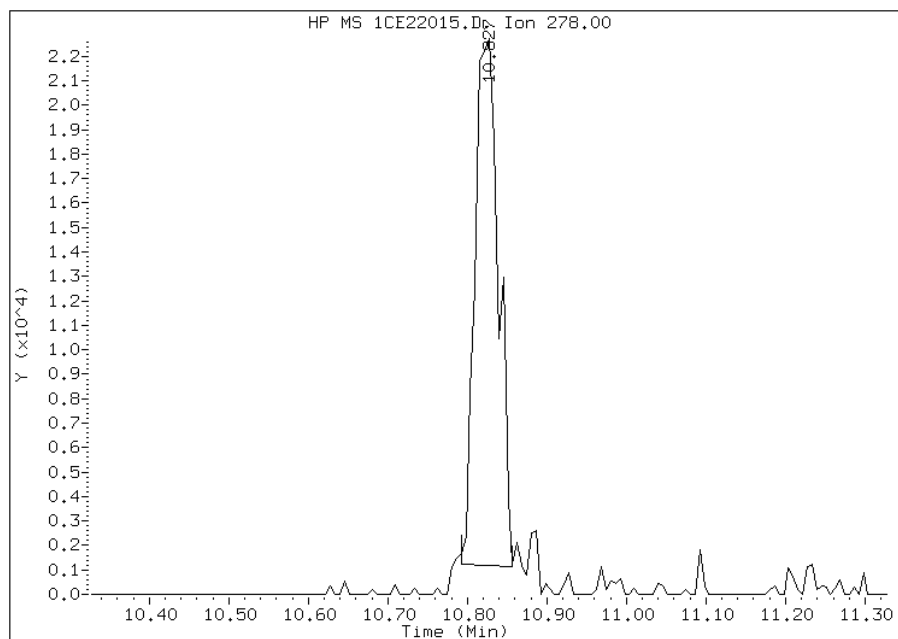
Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:06  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CE22015.D  
Inj. Date and Time: 22-MAY-2013 16:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 05/23/2013

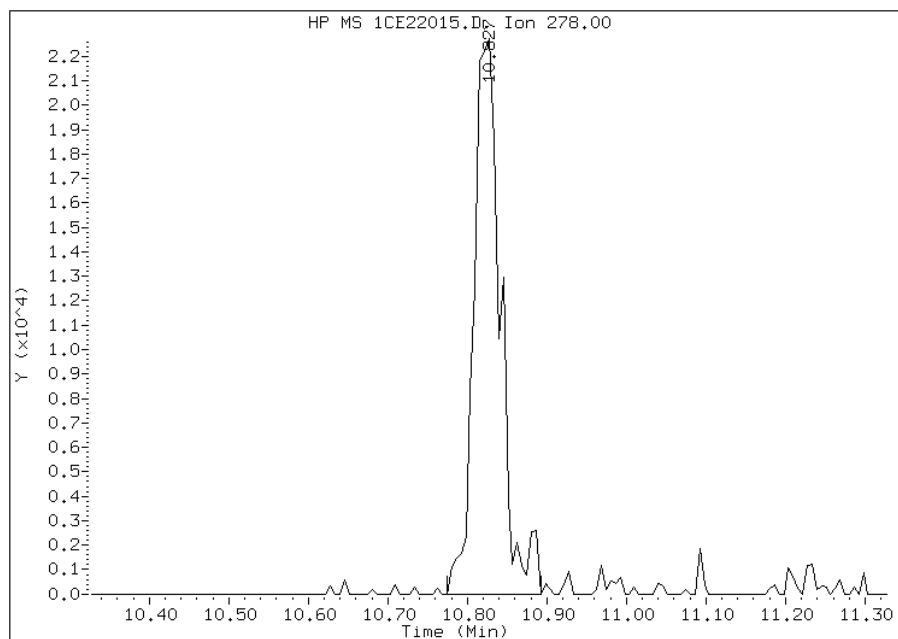
## Processing Integration Results

RT: 10.83  
Response: 43916  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 10.83  
Response: 53230  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:05  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22016.D  
 Lab Smp Id: IC-1531399  
 Inj Date : 22-MAY-2013 16:52  
 Operator : SCC  
 Smp Info : IC-1531399  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 16:34 Cal File: 1CE22015.D  
 Als bottle: 16 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136		4.057	4.057	(1.000)	2081666	40.0000	
* 6 Acenaphthene-d10	164		5.145	5.145	(1.000)	1422317	40.0000	
* 10 Phenanthrene-d10	188		6.116	6.116	(1.000)	2675415	40.0000	
\$ 14 o-Terphenyl	230		6.363	6.363	(1.040)	218457	5.00000	5.2417
* 18 Chrysene-d12	240		8.074	8.074	(1.000)	3306699	40.0000	
* 23 Perylene-d12	264		9.421	9.421	(1.000)	3472629	40.0000	
2 Naphthalene	128		4.069	4.069	(1.003)	277572	5.00000	5.6353
3 2-Methylnaphthalene	142		4.492	4.492	(1.107)	161984	5.00000	5.0474
4 1-Methylnaphthalene	142		4.557	4.557	(1.123)	155163	5.00000	5.0081
5 Acenaphthylene	152		5.057	5.057	(0.983)	272410	5.00000	4.9174
7 Acenaphthene	154		5.163	5.163	(1.003)	195498	5.00000	5.5806
9 Fluorene	166		5.492	5.492	(1.067)	219224	5.00000	5.0675
11 Phenanthrene	178		6.127	6.127	(1.002)	404697	5.00000	5.1199
12 Anthracene	178		6.163	6.163	(1.008)	373497	5.00000	5.1223
13 Carbazole	167		6.268	6.268	(1.025)	324904	5.00000	5.3417
15 Fluoranthene	202		6.980	6.980	(1.141)	406556	5.00000	5.0929
16 Pyrene	202		7.151	7.151	(0.886)	445351	5.00000	4.9876
17 Benzo(a)anthracene	228		8.068	8.068	(0.999)	417004	5.00000	4.8476
19 Chrysene	228		8.098	8.098	(1.003)	503367	5.00000	5.4831
20 Benzo(b)fluoranthene	252		9.009	9.009	(0.956)	393956	5.00000	4.6173
21 Benzo(k)fluoranthene	252		9.033	9.033	(0.959)	486517	5.00000	5.1054
22 Benzo(a)pyrene	252		9.356	9.356	(0.993)	404398	5.00000	5.0594
24 Indeno(1,2,3-cd)pyrene	276		10.803	10.803	(1.147)	389350	5.00000	5.1255(M)
25 Dibenzo(a,h)anthracene	278		10.827	10.827	(1.149)	357696	5.00000	4.8259
26 Benzo(g,h,i)perylene	276		11.227	11.227	(1.192)	406852	5.00000	5.0431

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22016.D

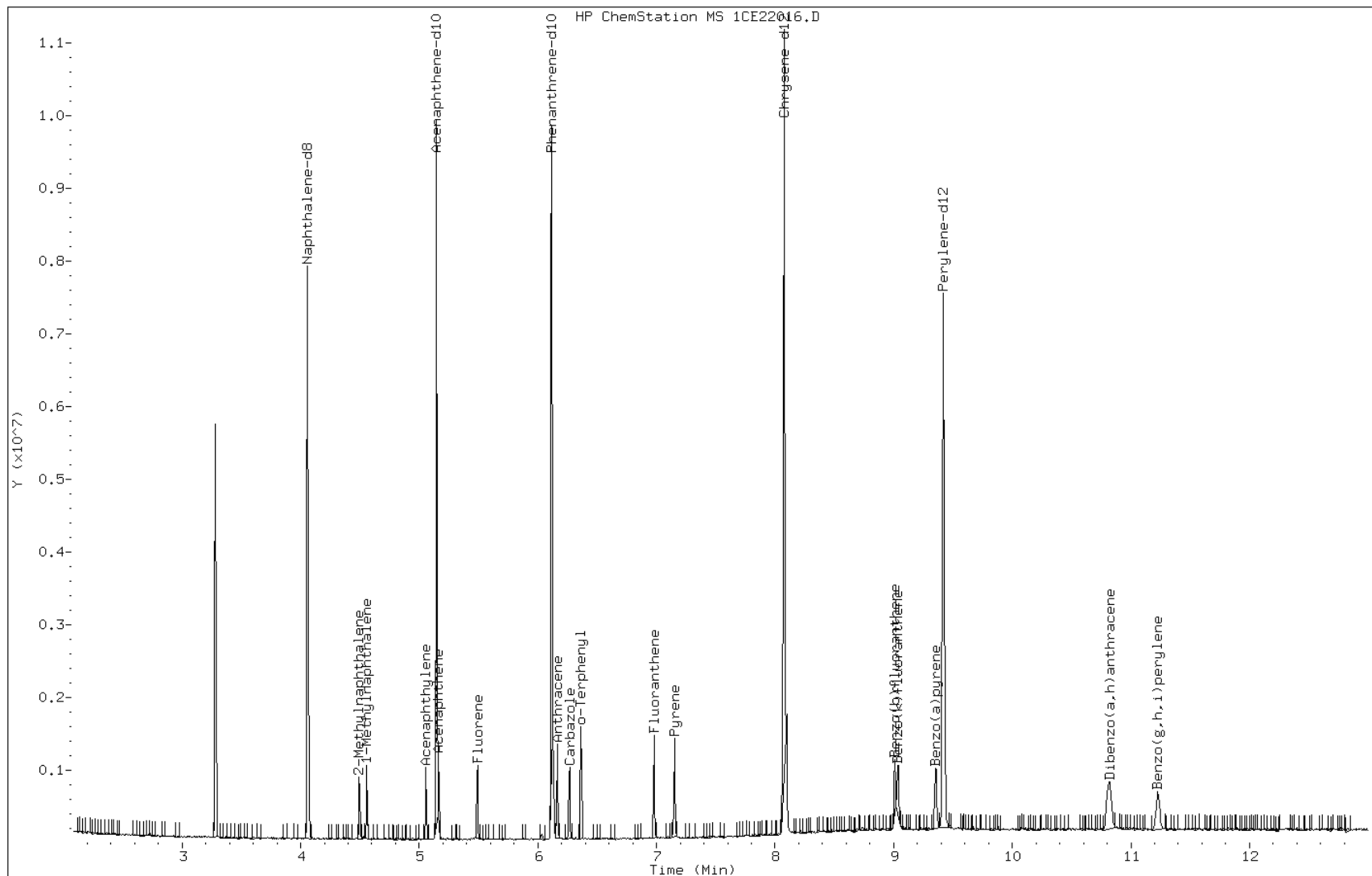
Date: 22-MAY-2013 16:52

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

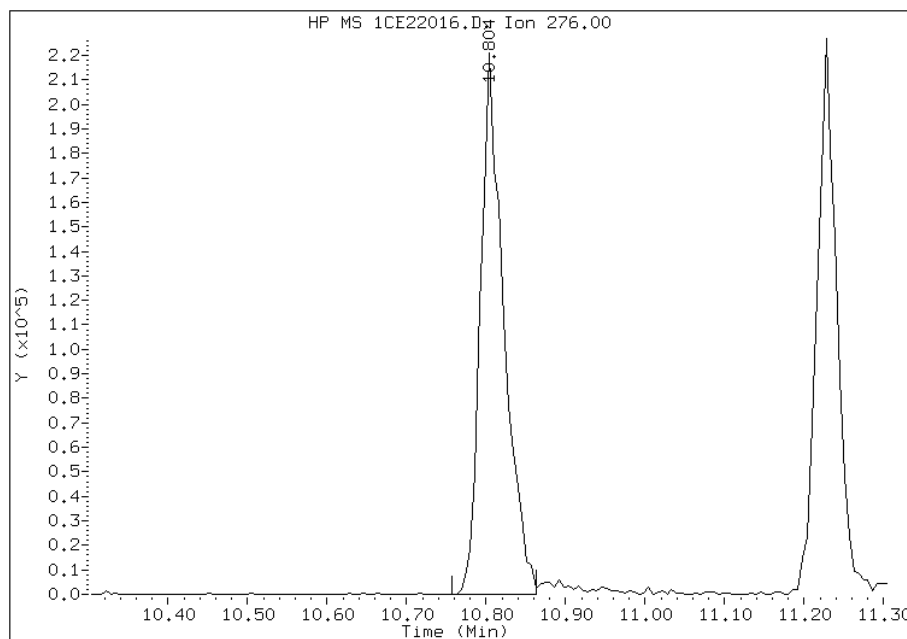


# Manual Integration Report

Data File: 1CE22016.D  
Inj. Date and Time: 22-MAY-2013 16:52  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

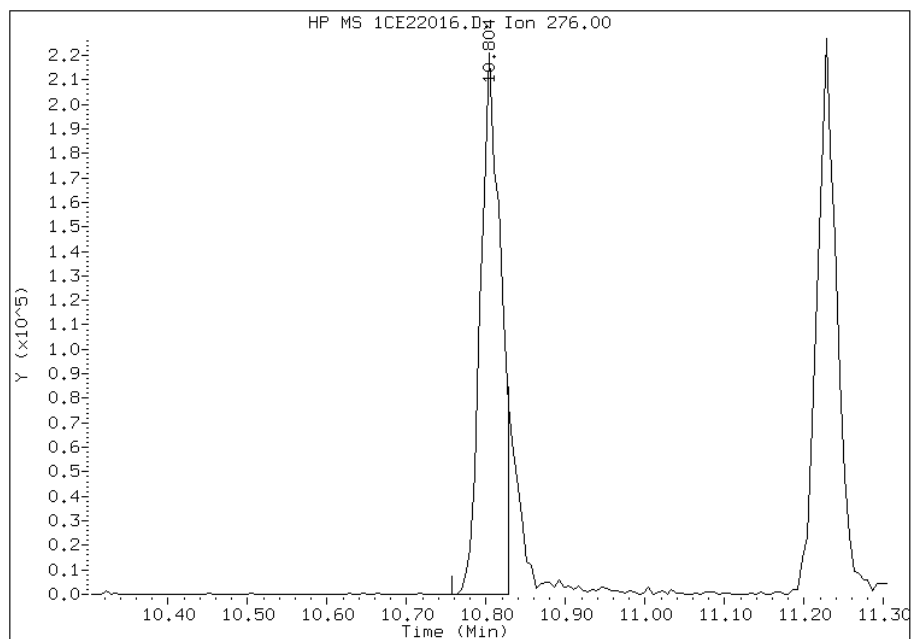
## Processing Integration Results

RT: 10.80  
Response: 449154  
Amount: 5  
Conc: 5



## Manual Integration Results

RT: 10.80  
Response: 389350  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:06  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22017.D  
 Lab Smp Id: IC-1531400  
 Inj Date : 22-MAY-2013 17:10  
 Operator : SCC  
 Smp Info : IC-1531400  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 16:52 Cal File: 1CE22016.D  
 Als bottle: 17 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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		4.057	4.057	(1.000)	2145469	40.0000	
* 6 Acenaphthene-d10	164		5.145	5.145	(1.000)	1509779	40.0000	
* 10 Phenanthrene-d10	188		6.115	6.115	(1.000)	2867550	40.0000	
\$ 14 o-Terphenyl	230		6.362	6.362	(1.040)	431889	10.0000	9.6686
* 18 Chrysene-d12	240		8.074	8.074	(1.000)	3562042	40.0000	
* 23 Perylene-d12	264		9.421	9.421	(1.000)	3464497	40.0000	
2 Naphthalene	128		4.068	4.068	(1.003)	502511	10.0000	10.0185
3 2-Methylnaphthalene	142		4.498	4.498	(1.109)	338697	10.0000	10.2456
4 1-Methylnaphthalene	142		4.557	4.557	(1.123)	325468	10.0000	10.0505
5 Acenaphthylene	152		5.057	5.057	(0.983)	595358	10.0000	9.9610
7 Acenaphthene	154		5.163	5.163	(1.003)	367076	10.0000	9.6366
9 Fluorene	166		5.492	5.492	(1.067)	473626	10.0000	9.6643
11 Phenanthrene	178		6.127	6.127	(1.002)	781016	10.0000	9.2188
12 Anthracene	178		6.162	6.162	(1.008)	787403	10.0000	9.5798
13 Carbazole	167		6.268	6.268	(1.025)	687573	10.0000	10.5470
15 Fluoranthene	202		6.980	6.980	(1.141)	855481	10.0000	9.4459
16 Pyrene	202		7.151	7.151	(0.886)	946073	10.0000	9.8358
17 Benzo(a)anthracene	228		8.068	8.068	(0.999)	902407	10.0000	9.4824
19 Chrysene	228		8.098	8.098	(1.003)	1006797	10.0000	10.1808
20 Benzo(b)fluoranthene	252		9.009	9.009	(0.956)	813573	10.0000	9.5578
21 Benzo(k)fluoranthene	252		9.039	9.039	(0.959)	1011311	10.0000	10.6374
22 Benzo(a)pyrene	252		9.356	9.356	(0.993)	844912	10.0000	9.6562
24 Indeno(1,2,3-cd)pyrene	276		10.803	10.803	(1.147)	828947	10.0000	9.5913(M)
25 Dibenzo(a,h)anthracene	278		10.827	10.827	(1.149)	767380	10.0000	10.3775
26 Benzo(g,h,i)perylene	276		11.233	11.233	(1.192)	813279	10.0000	10.1046

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22017.D

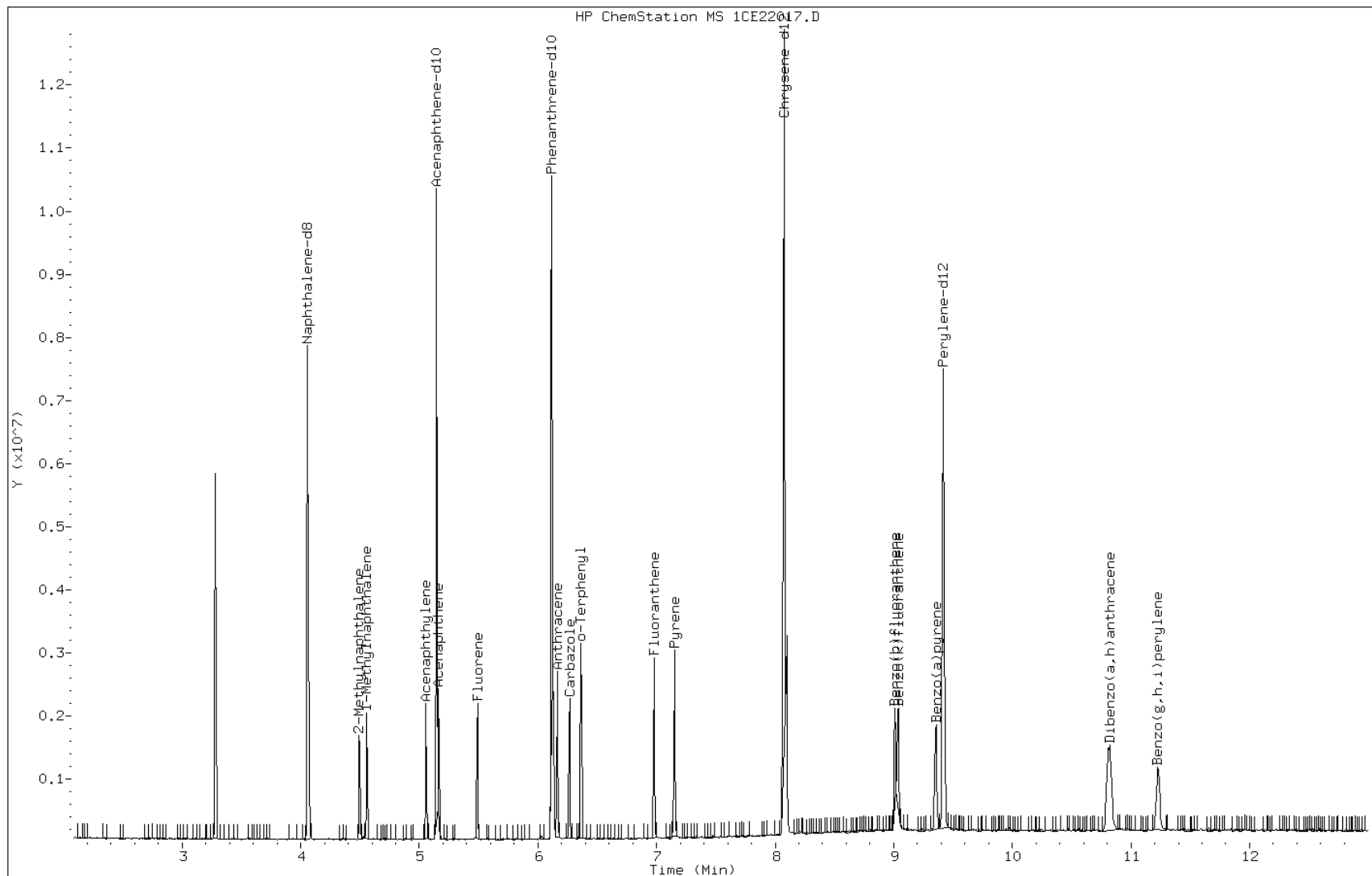
Date: 22-MAY-2013 17:10

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC

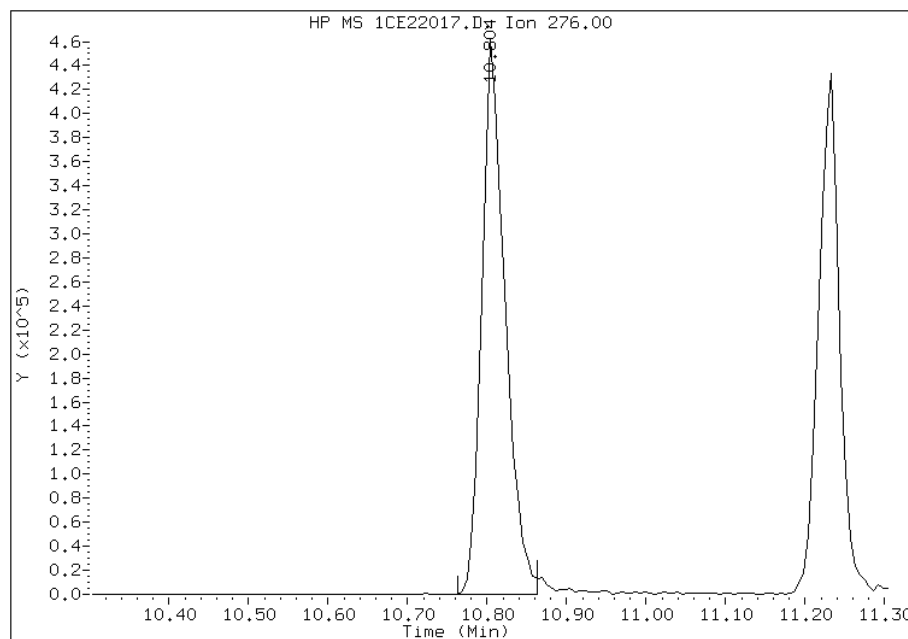


# Manual Integration Report

Data File: 1CE22017.D  
Inj. Date and Time: 22-MAY-2013 17:10  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

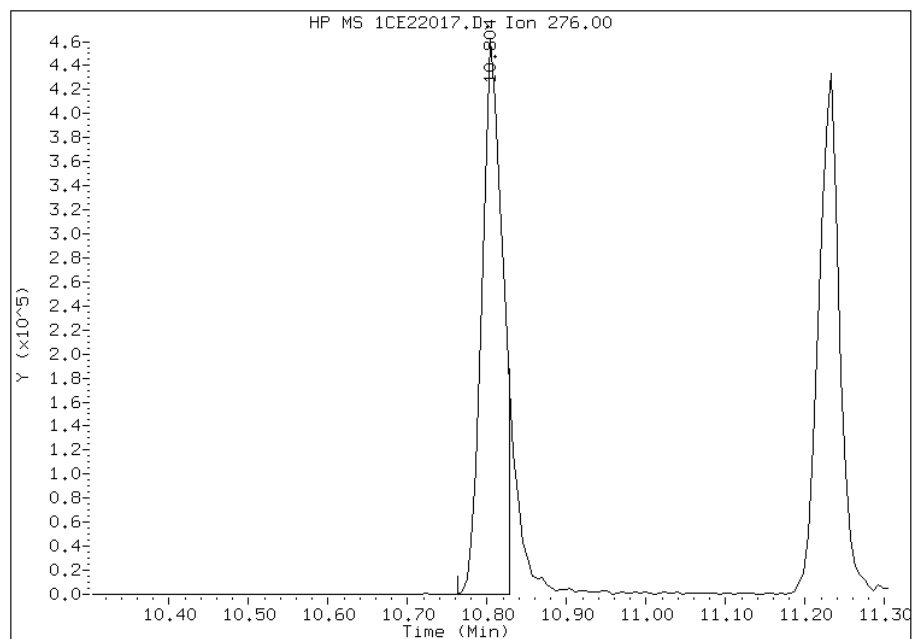
## Processing Integration Results

RT: 10.80  
Response: 934640  
Amount: 10  
Conc: 10



## Manual Integration Results

RT: 10.80  
Response: 828947  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:07  
Manual Integration Reason: Split Peak



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22018.D  
 Lab Smp Id: ICIS-1531401  
 Inj Date : 22-MAY-2013 17:29  
 Operator : SCC  
 Smp Info : ICIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 17:10 Cal File: 1CE22017.D  
 Als bottle: 18 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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		4.057	4.057	(1.000)	2696939	40.0000	
* 6 Acenaphthene-d10	164		5.145	5.145	(1.000)	1843203	40.0000	
* 10 Phenanthrene-d10	188		6.116	6.116	(1.000)	3628372	40.0000	
\$ 14 o-Terphenyl	230		6.363	6.363	(1.040)	1155503	20.0000	20.4438
* 18 Chrysene-d12	240		8.080	8.080	(1.000)	4592658	40.0000	
* 23 Perylene-d12	264		9.421	9.421	(1.000)	4701347	40.0000	
2 Naphthalene	128		4.069	4.069	(1.003)	1290268	20.0000	20.2392
3 2-Methylnaphthalene	142		4.498	4.498	(1.109)	861867	20.0000	20.4173
4 1-Methylnaphthalene	142		4.557	4.557	(1.123)	812801	20.0000	19.6680
5 Acenaphthylene	152		5.057	5.057	(0.983)	1503680	20.0000	20.2242
7 Acenaphthene	154		5.163	5.163	(1.003)	930965	20.0000	19.6899
9 Fluorene	166		5.492	5.492	(1.067)	1196881	20.0000	19.3332
11 Phenanthrene	178		6.133	6.133	(1.003)	2021508	20.0000	18.8578
12 Anthracene	178		6.163	6.163	(1.008)	2033868	20.0000	19.0224
13 Carbazole	167		6.268	6.268	(1.025)	1771988	20.0000	21.4818
15 Fluoranthene	202		6.980	6.980	(1.141)	2280567	20.0000	19.2658
16 Pyrene	202		7.151	7.151	(0.885)	2585241	20.0000	20.8460
17 Benzo(a)anthracene	228		8.068	8.068	(0.999)	2496189	20.0000	19.9640
19 Chrysene	228		8.098	8.098	(1.002)	2553612	20.0000	20.0277
20 Benzo(b)fluoranthene	252		9.009	9.009	(0.956)	2511123	20.0000	21.7394
21 Benzo(k)fluoranthene	252		9.039	9.039	(0.959)	2593145	20.0000	20.1000
22 Benzo(a)pyrene	252		9.357	9.357	(0.993)	2373859	20.0000	19.0736
24 Indeno(1,2,3-cd)pyrene	276		10.809	10.809	(1.147)	2270654	20.0000	18.1509(M)
25 Dibenzo(a,h)anthracene	278		10.827	10.827	(1.149)	2135605	20.0000	21.2824
26 Benzo(g,h,i)perylene	276		11.233	11.233	(1.192)	2336946	20.0000	21.3967

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22018.D

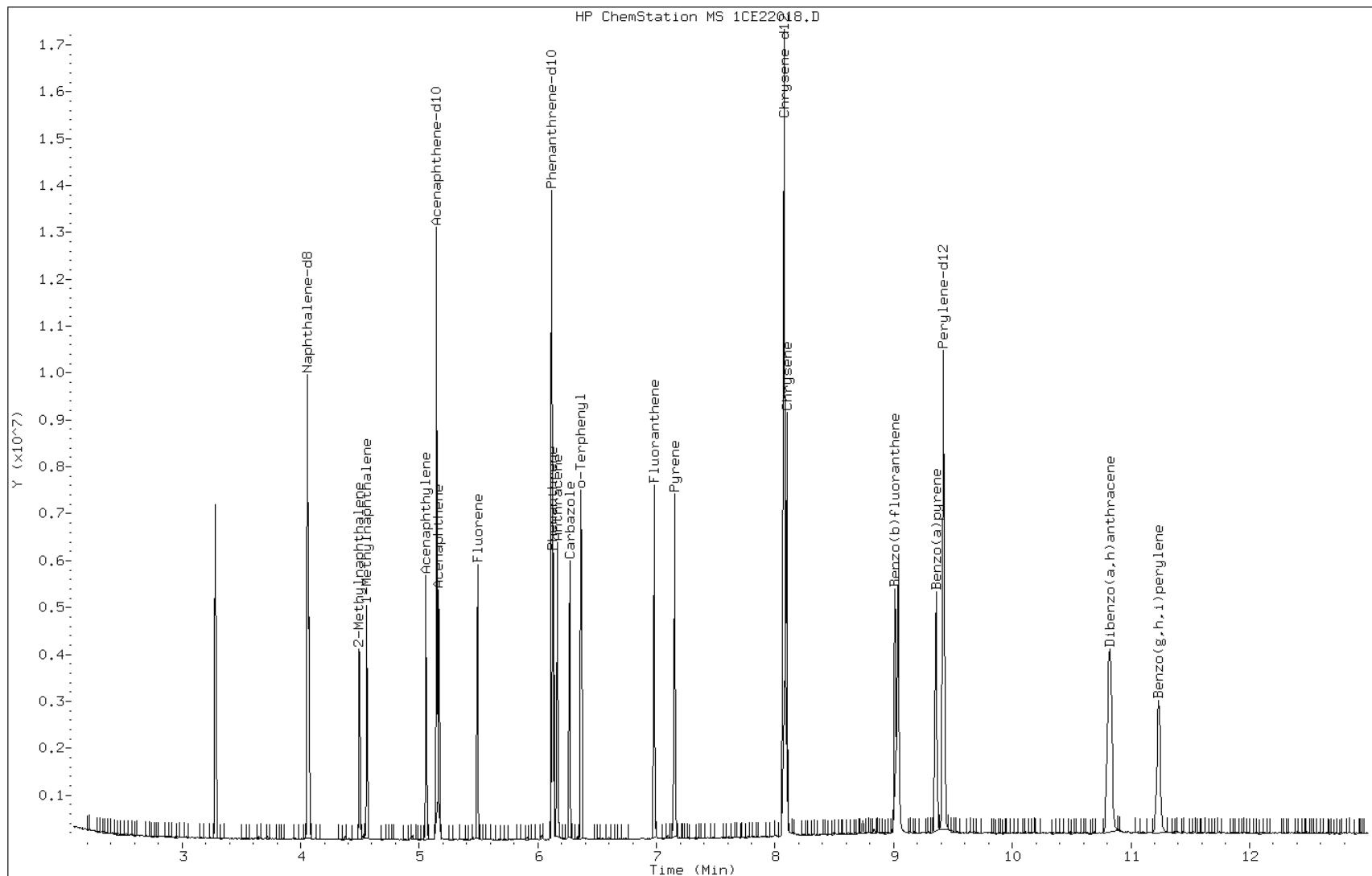
Date: 22-MAY-2013 17:29

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

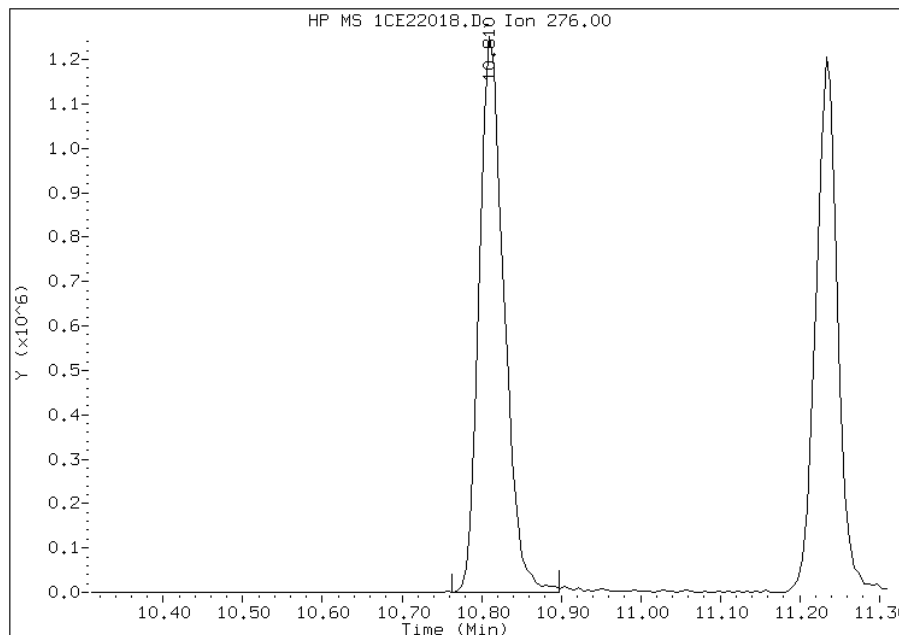


# Manual Integration Report

Data File: 1CE22018.D  
Inj. Date and Time: 22-MAY-2013 17:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

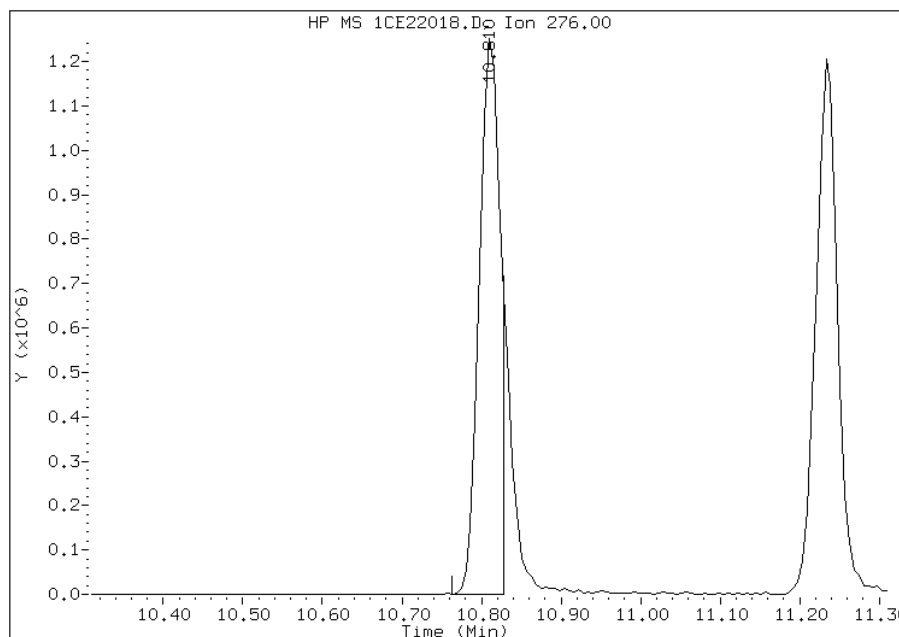
## Processing Integration Results

RT: 10.81  
Response: 2702405  
Amount: 21  
Conc: 21



## Manual Integration Results

RT: 10.81  
Response: 2270654  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 22-May-2013 18:03  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22019.D  
 Lab Smp Id: IC-1531402  
 Inj Date : 22-MAY-2013 17:47  
 Operator : SCC  
 Smp Info : IC-1531402  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 17:29 Cal File: 1CE22018.D  
 Als bottle: 19 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	4.057	4.057	(1.000)	2068326	40.0000	
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1427326	40.0000	
* 10 Phenanthrene-d10	188	6.116	6.116	(1.000)	2638178	40.0000	
\$ 14 o-Terphenyl	230	6.363	6.363	(1.040)	1331814	30.0000	32.4073
* 18 Chrysene-d12	240	8.074	8.074	(1.000)	3302140	40.0000	
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3377140	40.0000	
2 Naphthalene	128	4.069	4.069	(1.003)	1475133	30.0000	29.5453
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	970702	30.0000	29.4444
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	973704	30.0000	30.2912
5 Acenaphthylene	152	5.057	5.057	(0.983)	1744024	30.0000	29.8344
7 Acenaphthene	154	5.163	5.163	(1.003)	1069111	30.0000	29.0526
9 Fluorene	166	5.492	5.492	(1.067)	1415229	30.0000	29.1903
11 Phenanthrene	178	6.133	6.133	(1.003)	2310027	30.0000	29.6374
12 Anthracene	178	6.168	6.168	(1.009)	2351205	30.0000	29.9418
13 Carbazole	167	6.268	6.268	(1.025)	2042937	30.0000	34.0622
15 Fluoranthene	202	6.980	6.980	(1.141)	2594572	30.0000	29.8212
16 Pyrene	202	7.151	7.151	(0.886)	2821005	30.0000	31.6369
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	2759615	30.0000	30.3926
19 Chrysene	228	8.098	8.098	(1.003)	2753228	30.0000	30.0322
20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	2780406	30.0000	33.5091
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2862522	30.0000	30.8881
22 Benzo(a)pyrene	252	9.357	9.357	(0.993)	2630366	30.0000	28.9560
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.809	(1.147)	2670728	30.0000	28.9631(M)
25 Dibenzo(a,h)anthracene	278	10.833	10.833	(1.150)	2393229	30.0000	33.2015
26 Benzo(g,h,i)perylene	276	11.233	11.233	(1.192)	2483401	30.0000	31.6533

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22019.D

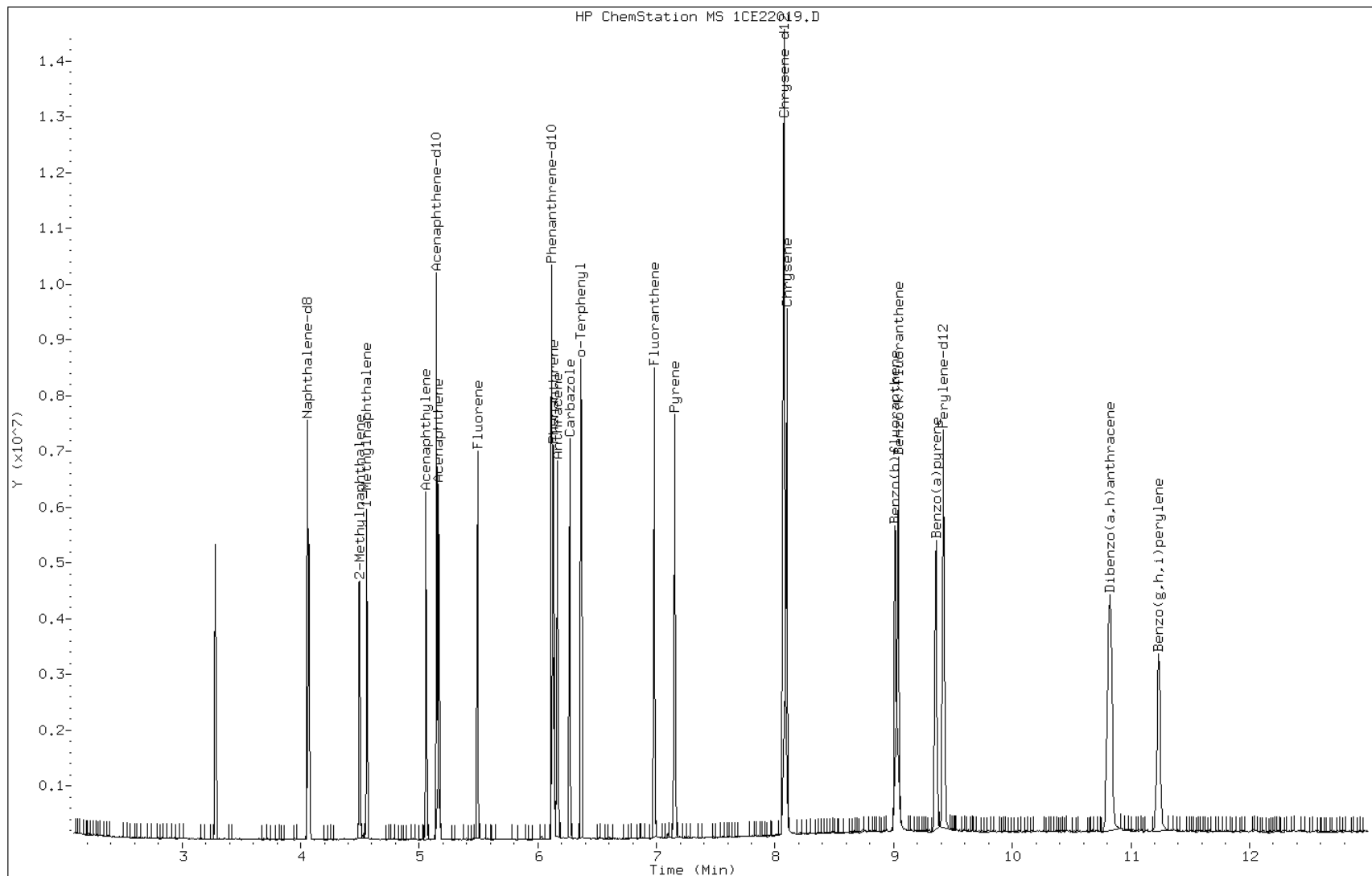
Date: 22-MAY-2013 17:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

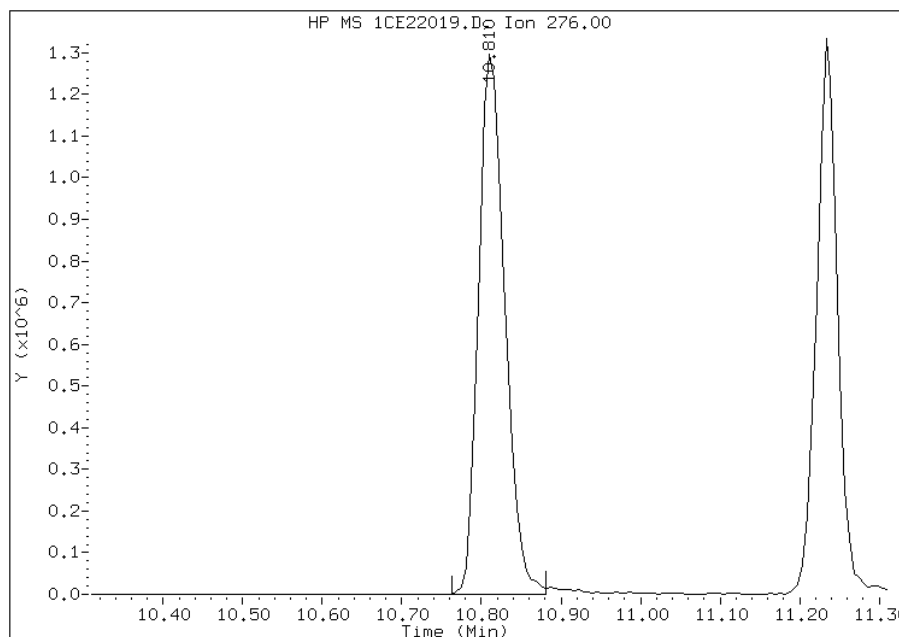


# Manual Integration Report

Data File: 1CE22019.D  
Inj. Date and Time: 22-MAY-2013 17:47  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

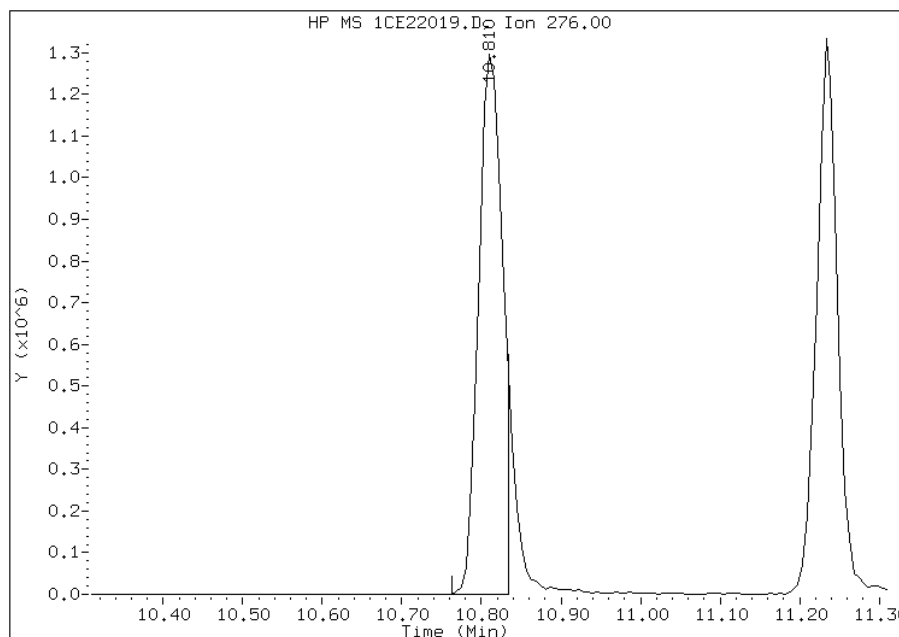
## Processing Integration Results

RT: 10.81  
Response: 2965644  
Amount: 32  
Conc: 32



## Manual Integration Results

RT: 10.81  
Response: 2670728  
Amount: 29  
Conc: 29



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:07  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22020.D  
 Lab Smp Id: IC-1531403  
 Inj Date : 22-MAY-2013 18:05  
 Operator : SCC  
 Smp Info : IC-1531403  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:10 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-MAY-2013 17:47 Cal File: 1CE22019.D  
 Als bottle: 20 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.057	4.057	(1.000)	2200854	40.0000		
* 6 Acenaphthene-d10	164	5.145	5.145	(1.000)	1541984	40.0000		
* 10 Phenanthrene-d10	188	6.115	6.115	(1.000)	2936983	40.0000		
\$ 14 o-Terphenyl	230	6.368	6.368	(1.041)	2489982	50.0000	54.4249(A)	
* 18 Chrysene-d12	240	8.080	8.080	(1.000)	3735164	40.0000		
* 23 Perylene-d12	264	9.421	9.421	(1.000)	3666876	40.0000		
2 Naphthalene	128	4.068	4.068	(1.003)	2829693	50.0000	50.0994(A)	
3 2-Methylnaphthalene	142	4.498	4.498	(1.109)	1846051	50.0000	50.1042(A)	
4 1-Methylnaphthalene	142	4.557	4.557	(1.123)	1753070	50.0000	49.9439	
5 Acenaphthylene	152	5.057	5.057	(0.983)	3262336	50.0000	50.0238(A)	
7 Acenaphthene	154	5.168	5.168	(1.005)	2023281	50.0000	50.6638(A)	
9 Fluorene	166	5.492	5.492	(1.067)	2683311	50.0000	50.7564(A)	
11 Phenanthrene	178	6.133	6.133	(1.003)	4422781	50.0000	50.9708(A)	
12 Anthracene	178	6.168	6.168	(1.009)	4441751	50.0000	50.4523(A)	
13 Carbazole	167	6.268	6.268	(1.025)	3814591	50.0000	57.1306(A)	
15 Fluoranthene	202	6.980	6.980	(1.141)	4926903	50.0000	50.4621(A)	
16 Pyrene	202	7.157	7.157	(0.886)	5350270	50.0000	53.0459(A)	
17 Benzo(a)anthracene	228	8.068	8.068	(0.999)	5197458	50.0000	49.8822	
19 Chrysene	228	8.098	8.098	(1.002)	5304178	50.0000	51.1504(A)	
20 Benzo(b)fluoranthene	252	9.015	9.015	(0.957)	5119876	50.0000	56.8286(A)	
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	5598875	50.0000	55.6412(A)	
22 Benzo(a)pyrene	252	9.356	9.356	(0.993)	5093564	50.0000	50.9688(A)	
24 Indeno(1,2,3-cd)pyrene	276	10.815	10.815	(1.148)	5226444	50.0000	51.2476(AM)	
25 Dibenzo(a,h)anthracene	278	10.839	10.839	(1.150)	4518350	50.0000	57.7307(A)	
26 Benzo(g,h,i)perylene	276	11.244	11.244	(1.194)	4818870	50.0000	56.5679(A)	

QC Flag Legend

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

Data File: 1CE22020.D

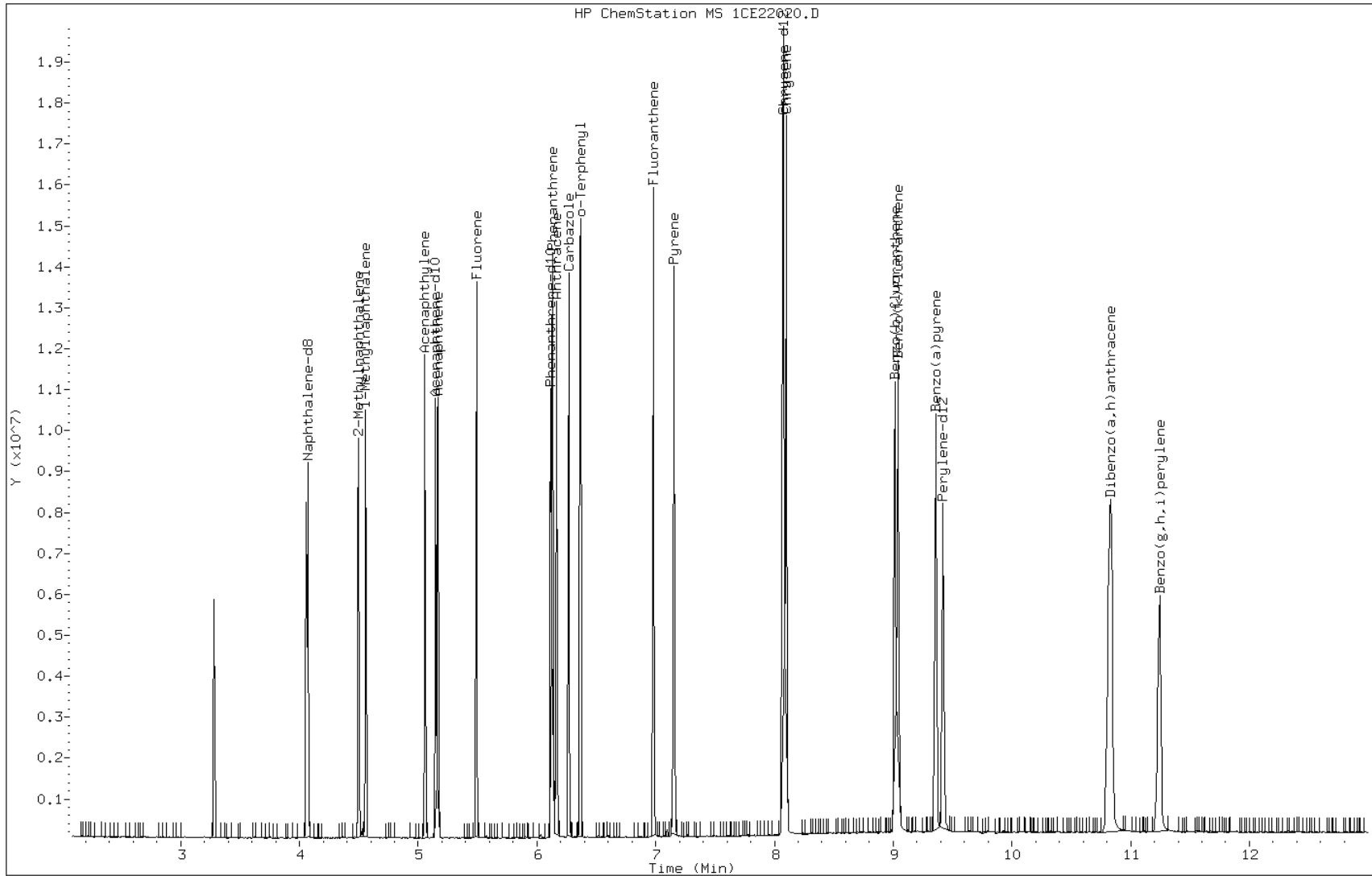
Date: 22-MAY-2013 18:05

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC



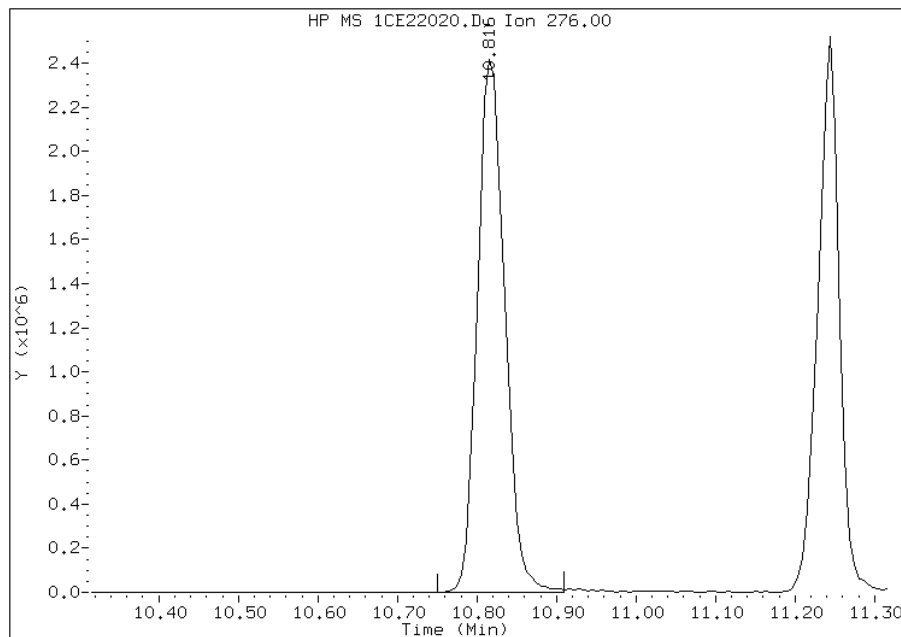


Manual Integration Report

Data File: 1CE22020.D  
Inj. Date and Time: 22-MAY-2013 18:05  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

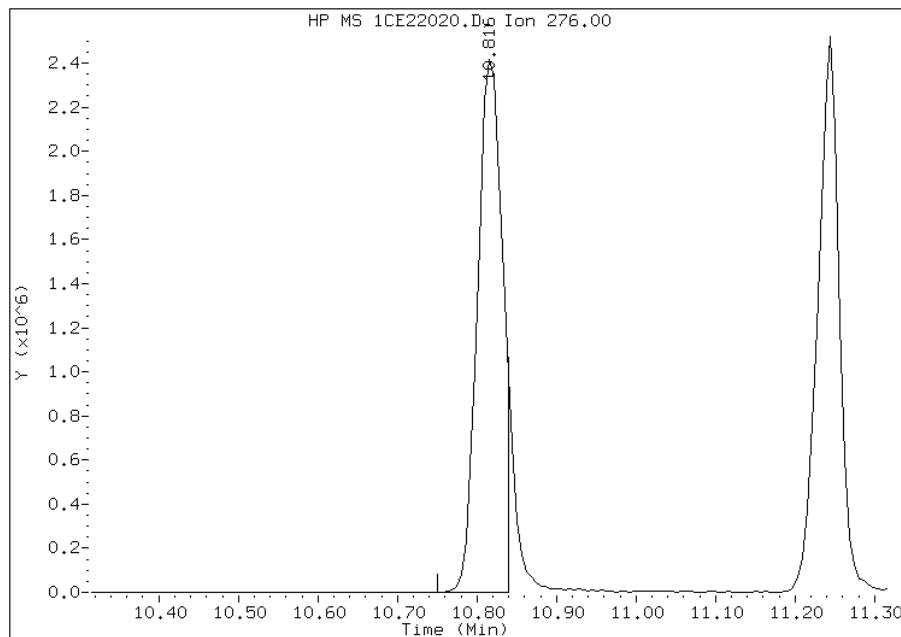
Processing Integration Results

RT: 10.82  
Response: 5750303  
Amount: 52  
Conc: 52



Manual Integration Results

RT: 10.82  
Response: 5226444  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:09  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137830

SDG No.: 68090852-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.0062 0.9726	0.9995 0.9719	0.9558	1.0008	0.9980	Ave	0.9864			0.0000	2.0		15.0				
2-Methylnaphthalene	0.5749 0.6384	0.6206 0.6316	0.6261	0.6587	0.6461	Ave	0.6281			0.0000	4.2		15.0				
1-Methylnaphthalene	0.6241 0.6428	0.6597 0.6342	0.6383	0.6735	0.6535	Ave	0.6466			0.0000	2.6		15.0				
1,1'-Biphenyl	1.2558 1.3810	1.3151 1.3708	1.3286	1.4157	1.3930	Ave	1.3514				4.1						
Acenaphthylene	1.3107 1.7873	1.5063 1.7667	1.6358	1.8042	1.7982	Ave	1.6585			0.0000	11.4		15.0				
Acenaphthene	1.0464 1.0507	1.0487 1.0375	1.0260	1.0949	1.0603	Ave	1.0521			0.0000	2.1		15.0				
Dibenzofuran	1.3261 1.4810	1.4516 1.4633	1.4312	1.5056	1.4959	Ave	1.4507				4.2						
Fluorene	1.0233 1.2432	1.1470 1.2316	1.1838	1.2557	1.2481	Ave	1.1904			0.0000	7.0		15.0				
Phenanthrene	1.0916 1.0740	1.0736 1.0745	1.0516	1.1171	1.1008	Ave	1.0833			0.0000	2.0		15.0				
Anthracene	0.9060 1.1005	0.9896 1.0935	1.0526	1.1103	1.1055	Ave	1.0511			0.0000	7.3		15.0				
Fluoranthene	0.9193 1.1786	1.0180 1.1788	1.1083	1.1809	1.1741	Ave	1.1083			0.0000	9.3		15.0				
Pyrene	1.0361 1.2269	1.1042 1.2137	1.1521	1.2414	1.2233	Ave	1.1711			0.0000	6.6		15.0				
Benzo[a]anthracene	1.5197 1.1551	1.1050 1.1845	1.0486	1.1333	1.1636	Ave	1.1871			0.0000	12.9		15.0				
Chrysene	1.2142 1.0365	1.0662 1.0434	1.0077	1.0774	1.0375	Ave	1.0690			0.0000	6.3		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.: 680-90852-1 Analy Batch No.: 137830

SDG No.: 68090852-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[b]fluoranthene	0.7633 1.0884	0.8861 1.1593	0.9510	1.0666	1.0998	Ave		1.0021			0.0000	14.1		15.0			
Benzo[k]fluoranthene	0.8692 1.1506	0.9589 1.1556	1.0109	1.0979	1.1026	Ave		1.0494			0.0000	10.2		15.0			
Benzo[a]pyrene	0.5413 1.0390	0.7183 1.0772	0.8802	0.9909	1.0194	Lin2	0.0025	0.9921							0.9902		
Indeno[1,2,3-cd]pyrene	0.5529 1.0098	0.6923 1.1024	0.8483	0.9795	0.9683	None	0.0037	1.0397							0.9951		
Dibenz(a,h)anthracene	0.6360 0.9847	0.7785 1.0376	0.8706	0.9418	0.9751	Lin2	0.0018	0.9560							0.9948		
Benzo[g,h,i]perylene	0.7013 0.9827	0.8003 1.0289	0.8929	0.9688	0.9829	Ave		0.9083			0.0000	13.0		15.0			
o-Terphenyl	0.5334 0.6060	0.5610 0.6203	0.5678	0.6036	0.6100	Ave		0.5860			0.0000	5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa

Job No.: 680-90852-1

Analy Batch No.: 137830

SDG No.: 68090852-1

Instrument ID: BSMD5973

GC Column: DB-5MS

ID: 250(um)

Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03

Calibration End Date: 05/23/2013 15:19

Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-90852-1 Analy Batch No.: 137830

SDG No.: 68090852-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

<p>Ave = Average ISTD Lin2 = Linear 1/conc^2 ISTD None = No Calib Curve</p>
---

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23003.D  
 Lab Smp Id: IC1  
 Inj Date : 23-MAY-2013 13:03  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC1  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 3 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.283	6.283	(1.000)	2793016	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1650729	40.0000	
* 11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2694117	40.0000	
\$ 15 o-Terphenyl	230	9.520	9.520	(1.034)	7185	0.20000	0.18
* 19 Chrysene-d12	240	11.571	11.571	(1.000)	2598008	40.0000	
* 24 Perylene-d12	264	13.480	13.480	(1.000)	2643475	40.0000	
2 Naphthalene	128	6.307	6.307	(1.004)	14052	0.20000	0.20
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	8029	0.20000	0.18
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	8716	0.20000	0.19
5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	10365	0.20000	0.32
6 Acenaphthylene	152	7.822	7.822	(0.984)	10818	0.20000	0.16
8 Acenaphthene	154	7.975	7.975	(1.003)	8637	0.20000	0.20
9 Dibenzofuran	168	8.128	8.128	(1.022)	10945	0.20000	0.18
10 Fluorene	166	8.416	8.416	(1.058)	8446	0.20000	0.17
12 Phenanthrene	178	9.227	9.227	(1.002)	14705	0.20000	0.20
13 Anthracene	178	9.268	9.268	(1.006)	12204	0.20000	0.17
16 Fluoranthene	202	10.208	10.208	(1.108)	12384	0.20000	0.16
17 Pyrene	202	10.396	10.396	(0.898)	13459	0.20000	0.18
18 Benzo(a)anthracene	228	11.559	11.559	(0.999)	19741	0.20000	0.26
20 Chrysene	228	11.594	11.594	(1.002)	15772	0.20000	0.23
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.957)	10089	0.20000	0.15
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	11489	0.20000	0.16
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	7155	0.20000	0.21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.120)	7308	0.20000	0.25(H)
26 Dibenzo(a,h)anthracene	278	15.149	15.149	(1.124)	8406	0.20000	0.20(M)
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.155)	9269	0.20000	0.15(MH)

QC Flag Legend

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

Data File: 1DE23003.D

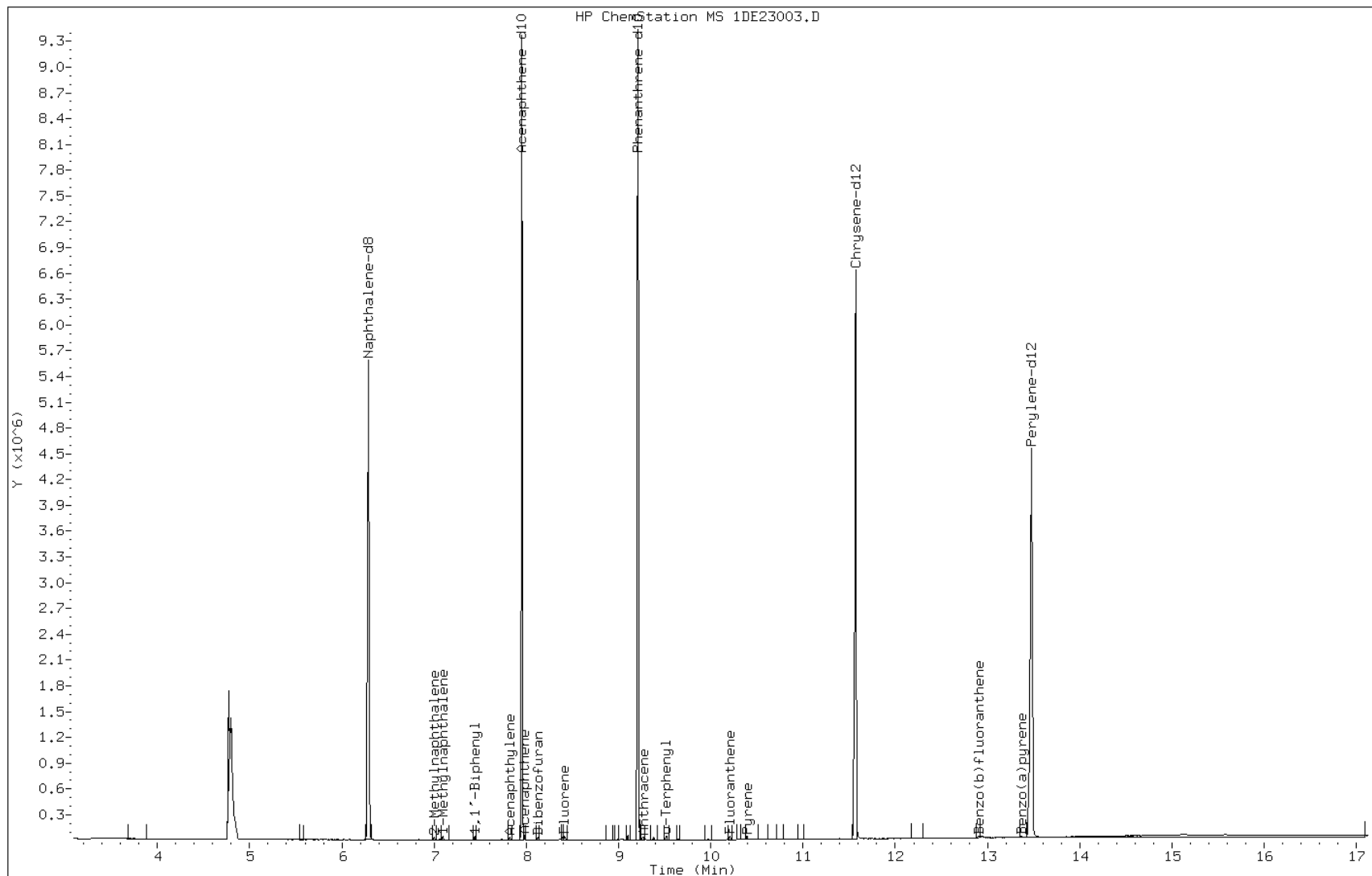
Date: 23-MAY-2013 13:03

Client ID:

Instrument: BSMSD.i

Sample Info: IC1

Operator: SCC

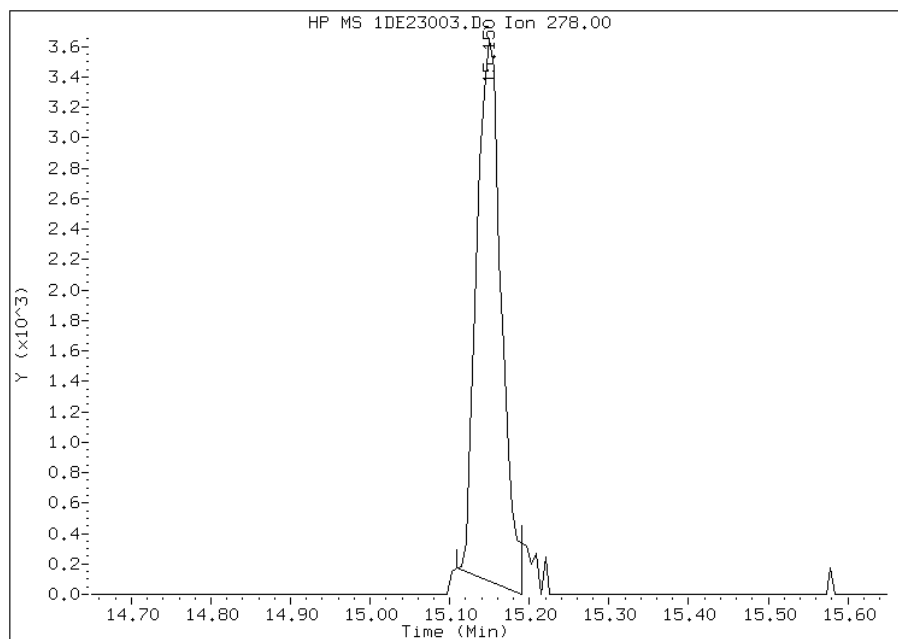


# Manual Integration Report

Data File: 1DE23003.D  
Inj. Date and Time: 23-MAY-2013 13:03  
Instrument ID: BSMDS.i  
Client ID:  
Compound: 26 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 05/28/2013

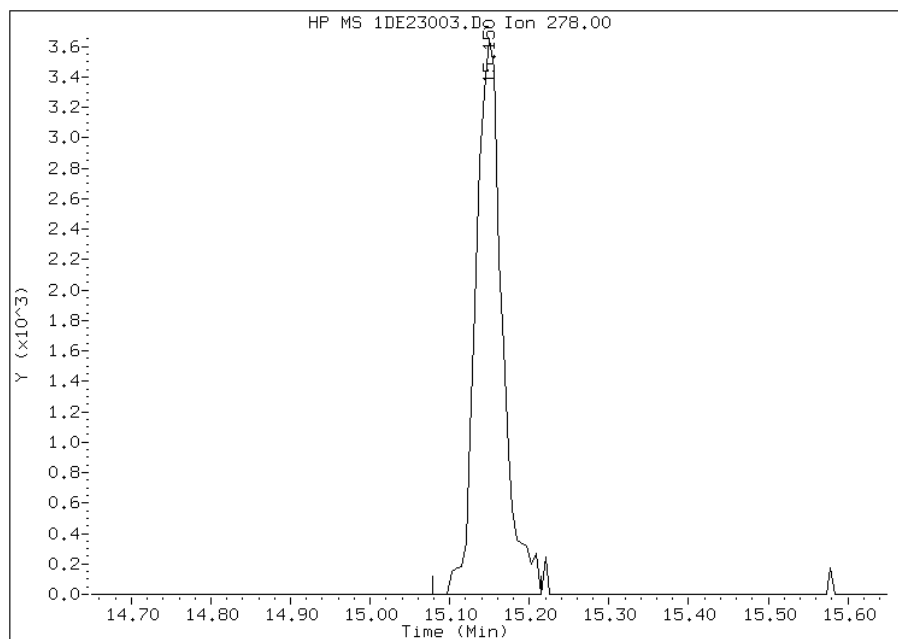
## Processing Integration Results

RT: 15.15  
Response: 7611  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 15.15  
Response: 8406  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 28-May-2013 11:36  
Manual Integration Reason: Baseline Event

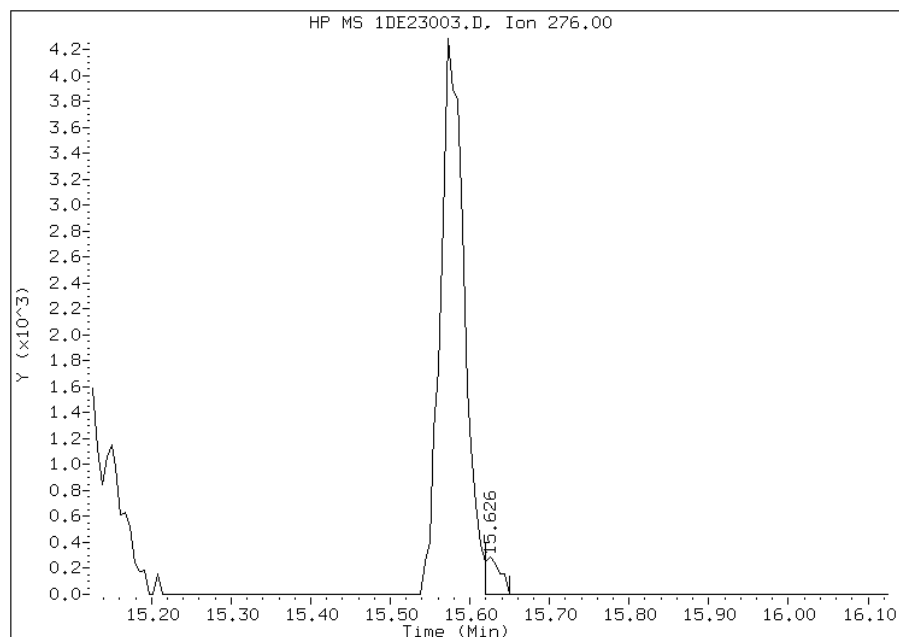


# Manual Integration Report

Data File: 1DE23003.D  
Inj. Date and Time: 23-MAY-2013 13:03  
Instrument ID: BSMDS.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 05/28/2013

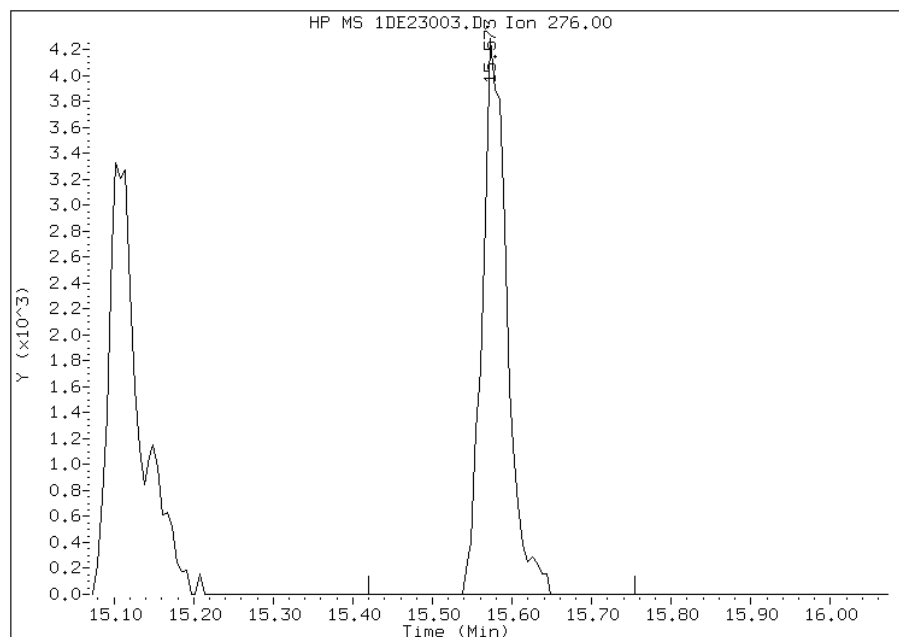
## Processing Integration Results

RT: 15.63  
Response: 387  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 15.57  
Response: 9269  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 28-May-2013 11:37  
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23004.D  
 Lab Smp Id: IC2  
 Inj Date : 23-MAY-2013 13:26  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC2  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 13:03 Cal File: 1DE23003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.283	6.283	(1.000)	2717054	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1604224	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.203	(1.000)	2663694	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	37357	1.00000	0.96
* 19 Chrysene-d12	240	11.565	11.565	(1.000)	2622056	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2712615	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	67892	1.00000	1.0
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	42157	1.00000	0.99
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	44810	1.00000	1.0
5 1,1'-Biphenyl	154	7.435	7.435	(0.935)	52741	1.00000	1.6
6 Acenaphthylene	152	7.817	7.817	(0.983)	60413	1.00000	0.91
8 Acenaphthene	154	7.975	7.975	(1.003)	42059	1.00000	1.00
9 Dibenzofuran	168	8.122	8.122	(1.021)	58216	1.00000	1.0
10 Fluorene	166	8.416	8.416	(1.058)	46002	1.00000	0.96
12 Phenanthrene	178	9.221	9.221	(1.002)	71492	1.00000	0.99
13 Anthracene	178	9.262	9.262	(1.006)	65898	1.00000	0.94
16 Fluoranthene	202	10.202	10.202	(1.109)	67793	1.00000	0.92
17 Pyrene	202	10.390	10.390	(0.898)	72384	1.00000	0.94
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	72436	1.00000	0.93
20 Chrysene	228	11.589	11.589	(1.002)	69888	1.00000	1.00
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	60091	1.00000	0.88
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	65030	1.00000	0.91
23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	48714	1.00000	0.82
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.121)	46950	1.00000	0.81(H)
26 Dibenzo(a,h)anthracene	278	15.138	15.138	(1.124)	52791	1.00000	0.89
27 Benzo(g,h,i)perylene	276	15.567	15.567	(1.156)	54271	1.00000	0.88

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

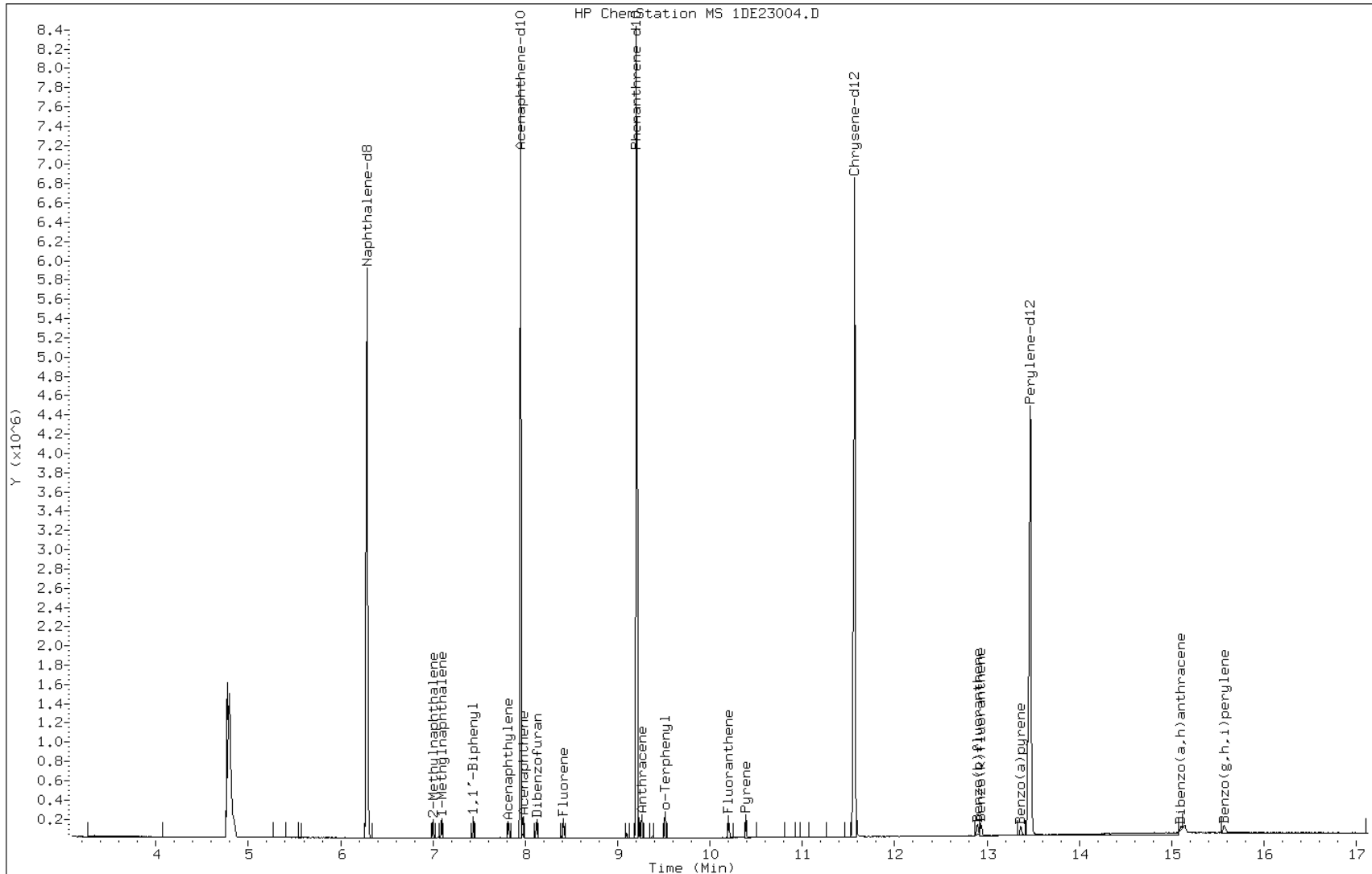
Date: 23-MAY-2013 13:26

Client ID:

Instrument: BSMSD.i

Sample Info: IC2

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23005.D  
 Lab Smp Id: IC3  
 Inj Date : 23-MAY-2013 13:48  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC3  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 13:26 Cal File: 1DE23004.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.280	6.280	(1.000)	2865774	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1664831	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	2787264	40.0000	
\$ 15 o-Terphenyl	230	9.512	9.512	(1.033)	197816	5.00000	4.8
* 19 Chrysene-d12	240	11.568	11.568	(1.000)	2779548	40.0000	
* 24 Perylene-d12	264	13.472	13.472	(1.000)	2866015	40.0000	
2 Naphthalene	128	6.304	6.304	(1.004)	342402	5.00000	4.8
3 2-Methylnaphthalene	142	6.997	6.997	(1.114)	224268	5.00000	5.0
4 1-Methylnaphthalene	142	7.091	7.091	(1.129)	228660	5.00000	4.9
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	276490	5.00000	7.2
6 Acenaphthylene	152	7.820	7.820	(0.984)	340416	5.00000	4.9
8 Acenaphthene	154	7.973	7.973	(1.003)	213507	5.00000	4.9
9 Dibenzofuran	168	8.119	8.119	(1.021)	297831	5.00000	4.9
10 Fluorene	166	8.413	8.413	(1.058)	246360	5.00000	5.0
12 Phenanthrene	178	9.224	9.224	(1.002)	366377	5.00000	4.8
13 Anthracene	178	9.265	9.265	(1.006)	366727	5.00000	5.0
16 Fluoranthene	202	10.205	10.205	(1.108)	386131	5.00000	5.0
17 Pyrene	202	10.393	10.393	(0.898)	400281	5.00000	4.9
18 Benzo(a)anthracene	228	11.551	11.551	(0.998)	364317	5.00000	4.4
20 Chrysene	228	11.592	11.592	(1.002)	350103	5.00000	4.7
21 Benzo(b)fluoranthene	252	12.902	12.902	(0.958)	340701	5.00000	4.7
22 Benzo(k)fluoranthene	252	12.937	12.937	(0.960)	362152	5.00000	4.8
23 Benzo(a)pyrene	252	13.366	13.366	(0.992)	315324	5.00000	4.5
25 Indeno(1,2,3-cd)pyrene	276	15.105	15.105	(1.121)	303899	5.00000	4.2(H)
26 Dibenzo(a,h)anthracene	278	15.146	15.146	(1.124)	311908	5.00000	4.6
27 Benzo(g,h,i)perylene	276	15.575	15.575	(1.156)	319890	5.00000	4.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

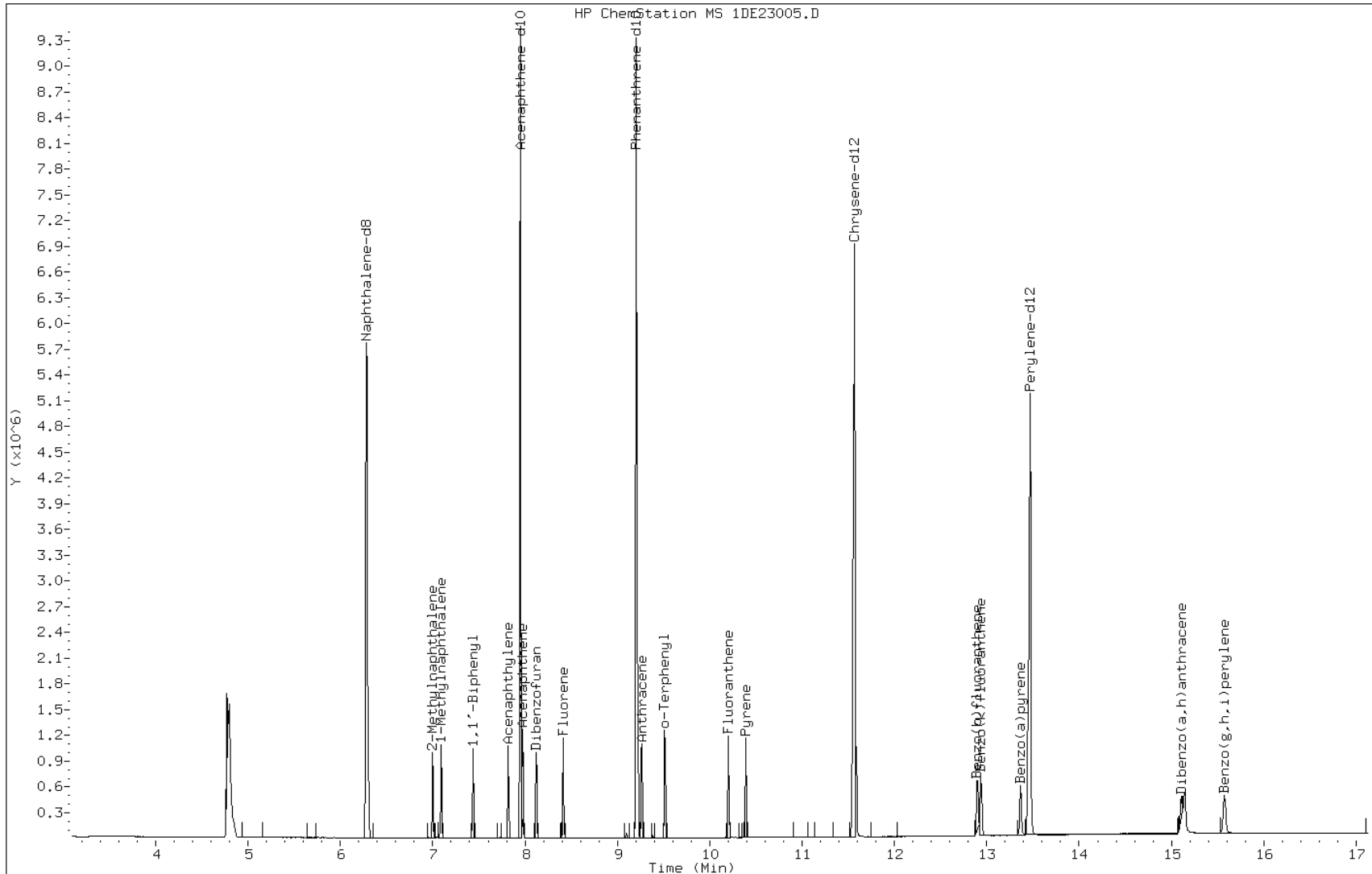
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D  
 Lab Smp Id: IC4  
 Inj Date : 23-MAY-2013 14:11  
 Operator : SCC  
 Smp Info : IC4  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.284	6.284	(1.000)	3084725	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

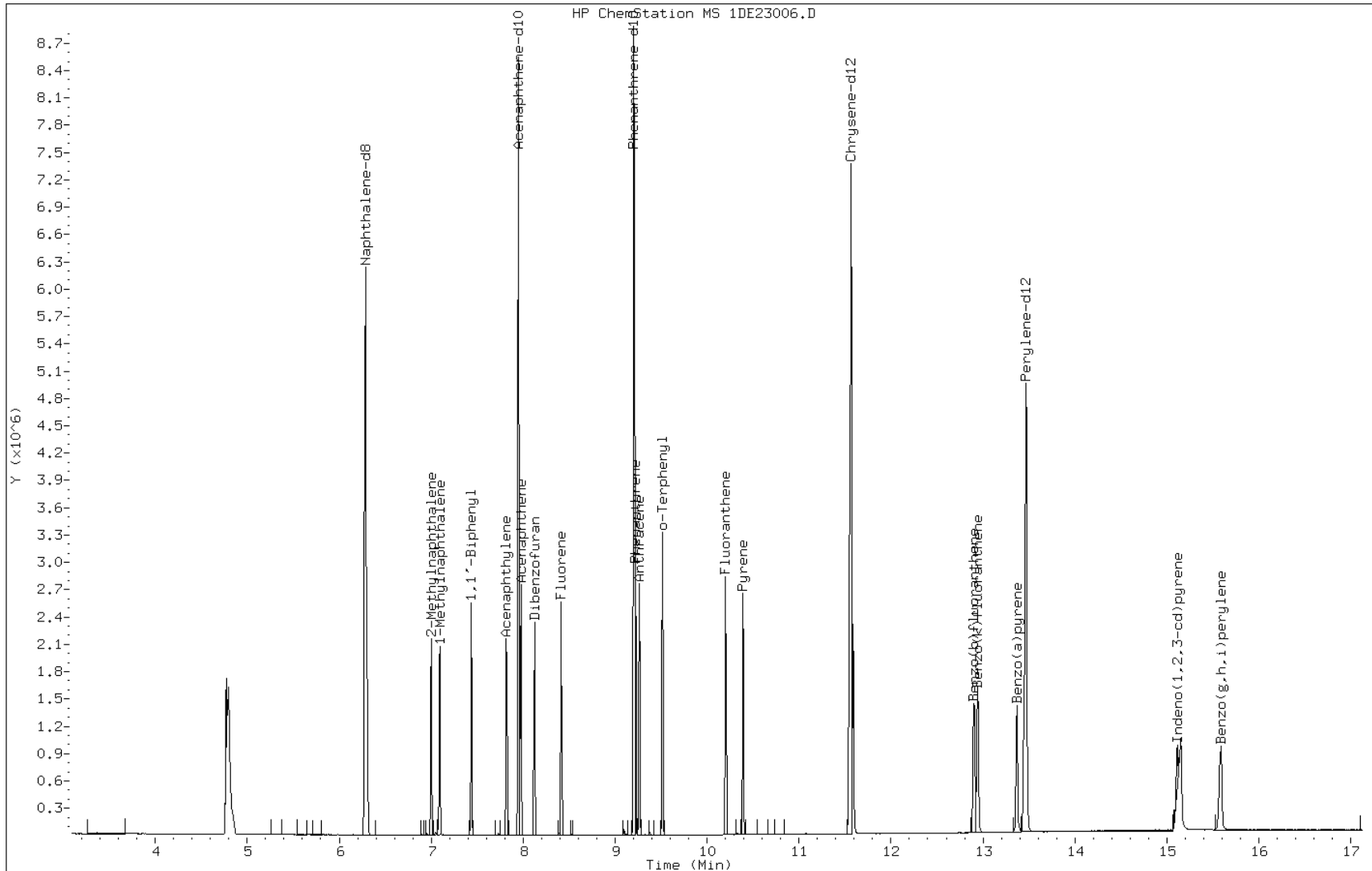
Date: 23-MAY-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC4

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23007.D  
 Lab Smp Id: ICIS  
 Inj Date : 23-MAY-2013 14:33  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : ICIS  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 14:11 Cal File: 1DE23006.D  
 Als bottle: 7 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.284	6.284	(1.000)	3209942	40.0000	
* 7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	936684	20.0000	21
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	3009447	40.0000	
* 24 Perylene-d12	264	13.476	13.476	(1.000)	3048824	40.0000	
2 Naphthalene	128	6.302	6.302	(1.003)	1601823	20.0000	20
3 2-Methylnaphthalene	142	7.001	7.001	(1.114)	1036995	20.0000	20
4 1-Methylnaphthalene	142	7.095	7.095	(1.129)	1048787	20.0000	20
5 1,1'-Biphenyl	154	7.436	7.436	(0.936)	1271034	20.0000	26
6 Acenaphthylene	152	7.817	7.817	(0.984)	1640830	20.0000	22
8 Acenaphthene	154	7.976	7.976	(1.004)	967502	20.0000	20
9 Dibenzofuran	168	8.123	8.123	(1.022)	1364999	20.0000	21
10 Fluorene	166	8.417	8.417	(1.059)	1138861	20.0000	21
12 Phenanthrene	178	9.228	9.228	(1.003)	1690403	20.0000	20
13 Anthracene	178	9.263	9.263	(1.006)	1697570	20.0000	21
16 Fluoranthene	202	10.203	10.203	(1.109)	1802958	20.0000	21
17 Pyrene	202	10.397	10.397	(0.899)	1840728	20.0000	21
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1750909	20.0000	20
20 Chrysene	228	11.595	11.595	(1.003)	1561209	20.0000	19
21 Benzo(b)fluoranthene	252	12.912	12.912	(0.958)	1676574	20.0000	22
22 Benzo(k)fluoranthene	252	12.953	12.953	(0.961)	1680826	20.0000	21
23 Benzo(a)pyrene	252	13.376	13.376	(0.993)	1554051	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.127	15.127	(1.123)	1476159	20.0000	19
26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.125)	1486524	20.0000	20
27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1498391	20.0000	22



Data File: 1DE23007.D

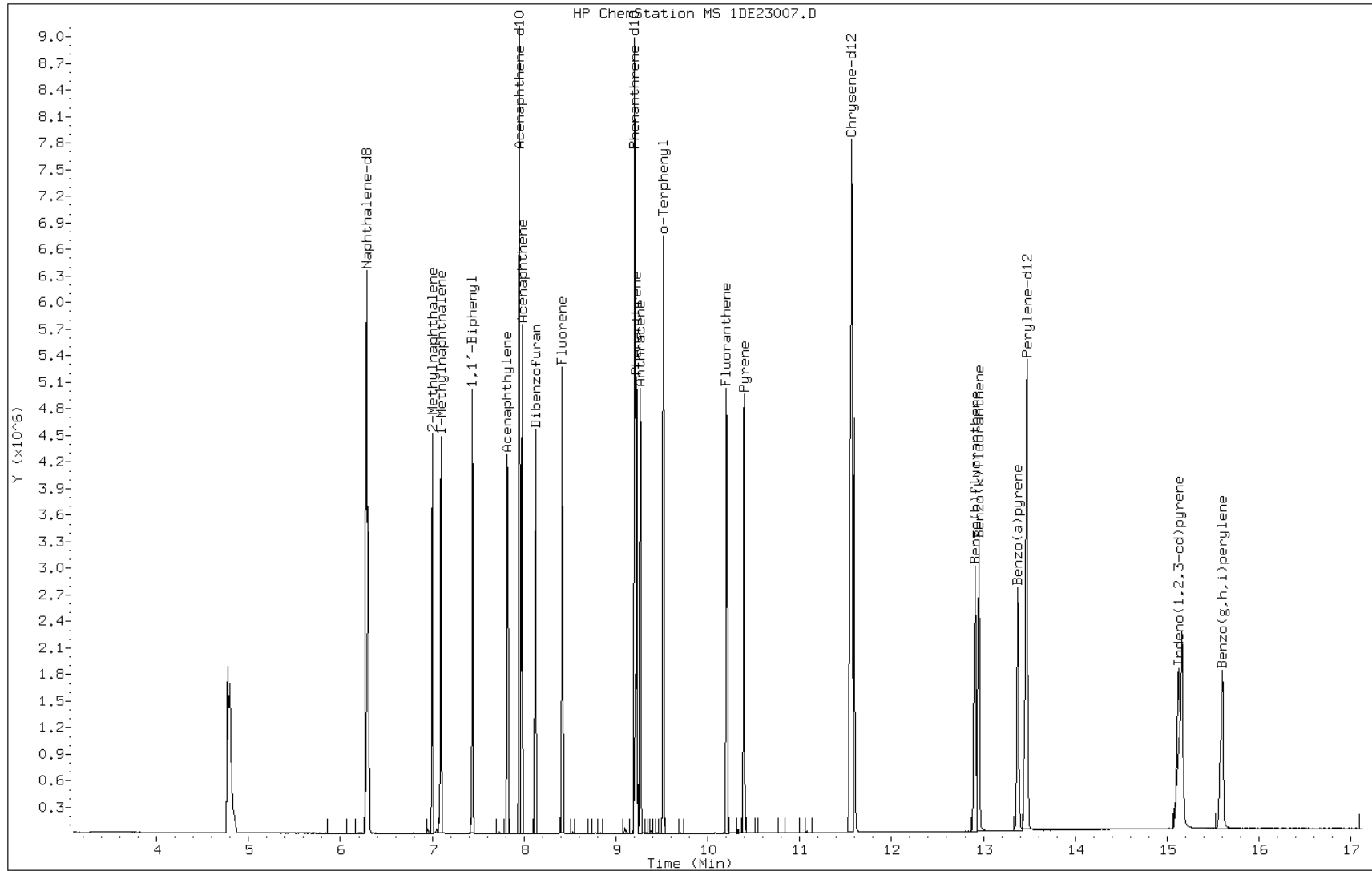
Date: 23-MAY-2013 14:33

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23008.D  
 Lab Smp Id: IC6  
 Inj Date : 23-MAY-2013 14:56  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC6  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 14:33 Cal File: 1DE23007.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.286	6.286	(1.000)	3364617	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
\$ 15 o-Terphenyl	230	9.518	9.518	(1.034)	1451630	30.0000	31
* 19 Chrysene-d12	240	11.574	11.574	(1.000)	3127987	40.0000	
* 24 Perylene-d12	264	13.478	13.478	(1.000)	3115576	40.0000	
2 Naphthalene	128	6.304	6.304	(1.003)	2454439	30.0000	30
3 2-Methylnaphthalene	142	7.003	7.003	(1.114)	1611089	30.0000	30
4 1-Methylnaphthalene	142	7.097	7.097	(1.129)	1622169	30.0000	30
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	1954075	30.0000	35
6 Acenaphthylene	152	7.820	7.820	(0.984)	2528965	30.0000	32
8 Acenaphthene	154	7.978	7.978	(1.004)	1486714	30.0000	30
9 Dibenzofuran	168	8.125	8.125	(1.022)	2095529	30.0000	31
10 Fluorene	166	8.419	8.419	(1.059)	1759028	30.0000	31
12 Phenanthrene	178	9.230	9.230	(1.003)	2572622	30.0000	30
13 Anthracene	178	9.271	9.271	(1.007)	2636003	30.0000	31
16 Fluoranthene	202	10.211	10.211	(1.109)	2822979	30.0000	32
17 Pyrene	202	10.399	10.399	(0.898)	2878307	30.0000	31
18 Benzo(a)anthracene	228	11.557	11.557	(0.998)	2709801	30.0000	29
20 Chrysene	228	11.598	11.598	(1.002)	2431700	30.0000	29
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2543308	30.0000	32
22 Benzo(k)fluoranthene	252	12.961	12.961	(0.962)	2688538	30.0000	33
23 Benzo(a)pyrene	252	13.384	13.384	(0.993)	2427727	30.0000	32
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2359651	30.0000	29
26 Dibenzo(a,h)anthracene	278	15.176	15.176	(1.126)	2300940	30.0000	31
27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2296193	30.0000	32

Data File: 1DE23008.D

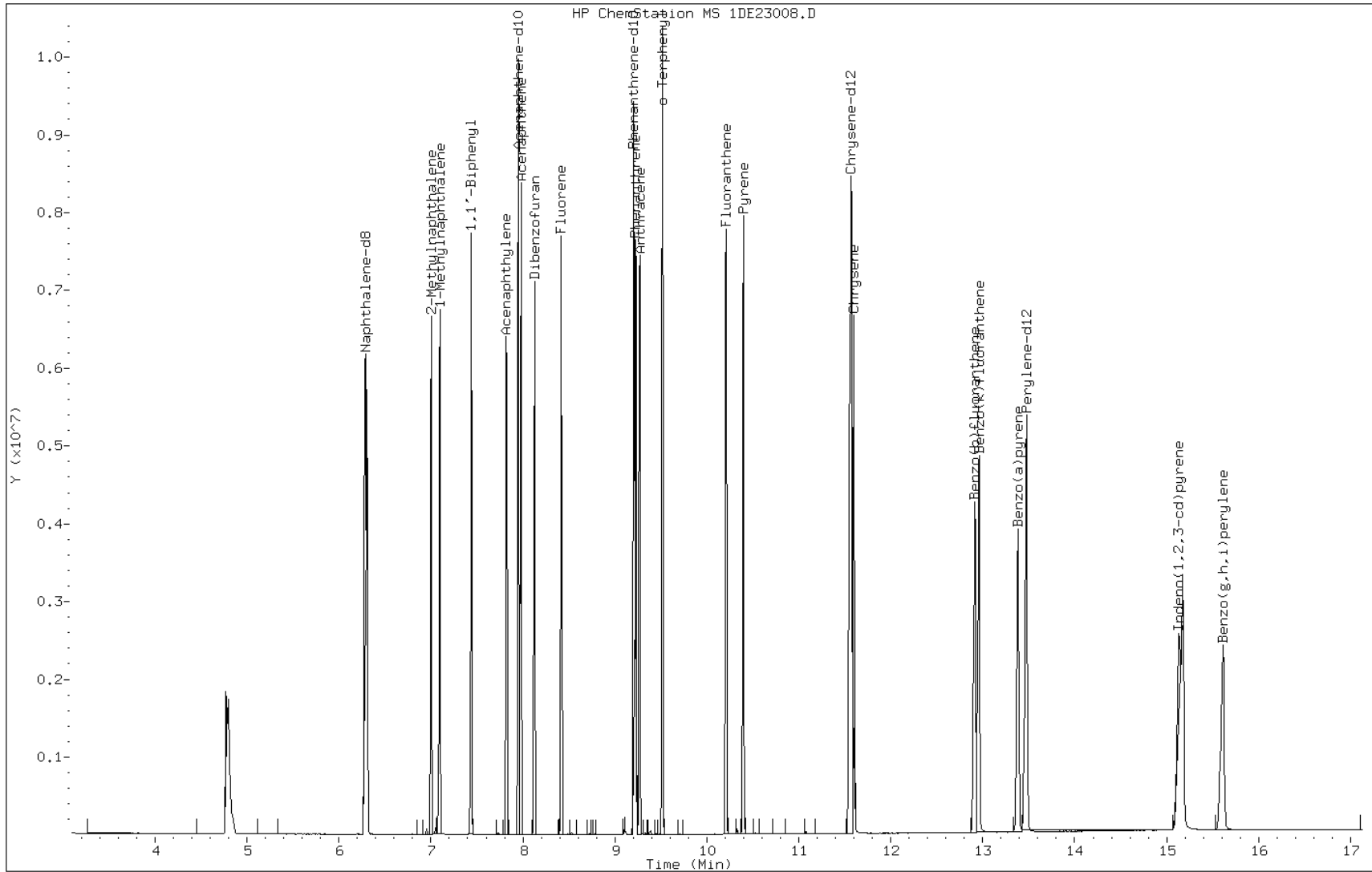
Date: 23-MAY-2013 14:56

Client ID:

Instrument: BSMDS.i

Sample Info: IC6

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23009.D  
 Lab Smp Id: IC7  
 Inj Date : 23-MAY-2013 15:19  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC7  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 14:56 Cal File: 1DE23008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		6.283	6.283	(1.000)	3172868	40.0000	
* 7 Acenaphthene-d10	164		7.952	7.952	(1.000)	1767883	40.0000	
* 11 Phenanthrene-d10	188		9.209	9.209	(1.000)	2959275	40.0000	
\$ 15 o-Terphenyl	230		9.521	9.521	(1.034)	2294445	50.0000	53(A)
* 19 Chrysene-d12	240		11.577	11.577	(1.000)	2899179	40.0000	
* 24 Perylene-d12	264		13.481	13.481	(1.000)	2888367	40.0000	
2 Naphthalene	128		6.307	6.307	(1.004)	3854620	50.0000	49
3 2-Methylnaphthalene	142		7.006	7.006	(1.115)	2505140	50.0000	50(A)
4 1-Methylnaphthalene	142		7.100	7.100	(1.130)	2515238	50.0000	49
5 1,1'-Biphenyl	154		7.441	7.441	(0.936)	3029358	50.0000	54(A)
6 Acenaphthylene	152		7.823	7.823	(0.984)	3904072	50.0000	53(A)
8 Acenaphthene	154		7.981	7.981	(1.004)	2292684	50.0000	49
9 Dibenzofuran	168		8.128	8.128	(1.022)	3233580	50.0000	50(A)
10 Fluorene	166		8.422	8.422	(1.059)	2721626	50.0000	52(A)
12 Phenanthrene	178		9.227	9.227	(1.002)	3974751	50.0000	50
13 Anthracene	178		9.268	9.268	(1.006)	4044900	50.0000	52(A)
16 Fluoranthene	202		10.214	10.214	(1.109)	4360425	50.0000	53(A)
17 Pyrene	202		10.402	10.402	(0.899)	4398475	50.0000	52(A)
18 Benzo(a)anthracene	228		11.559	11.559	(0.998)	4292530	50.0000	50
20 Chrysene	228		11.606	11.606	(1.003)	3781128	50.0000	49
21 Benzo(b)fluoranthene	252		12.923	12.923	(0.959)	4185749	50.0000	58(A)
22 Benzo(k)fluoranthene	252		12.970	12.970	(0.962)	4172175	50.0000	55(A)
23 Benzo(a)pyrene	252		13.393	13.393	(0.993)	3889042	50.0000	54(A)
25 Indeno(1,2,3-cd)pyrene	276		15.149	15.149	(1.124)	3980252	50.0000	53(A)
26 Dibenzo(a,h)anthracene	278		15.196	15.196	(1.127)	3746128	50.0000	54(A)
27 Benzo(g,h,i)perylene	276		15.637	15.637	(1.160)	3714851	50.0000	57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1DE23009.D

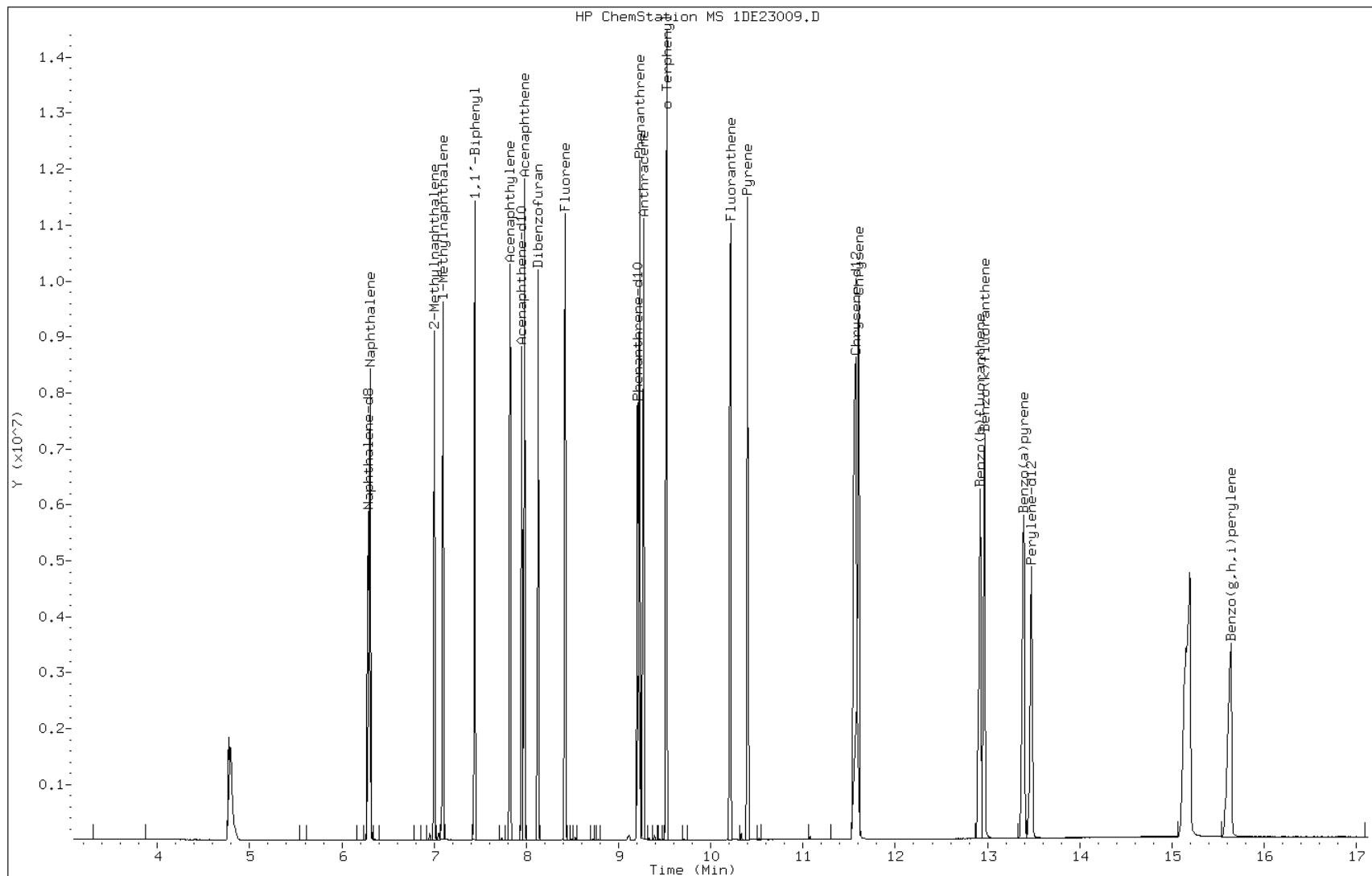
Date: 23-MAY-2013 15:19

Client ID:

Instrument: BMSMD.i

Sample Info: IC7

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: ICV 660-137917/14 Calibration Date: 05/30/2013 16:53  
 Instrument ID: BSMA5973 Calib Start Date: 05/30/2013 15:07  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/30/2013 16:38  
 Lab File ID: 1AE30013.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.8616	0.9580	0.0000	22200	20000	11.2	35.0
2-Methylnaphthalene	None		0.4646	0.0000	20800	20000	4.1	35.0
1-Methylnaphthalene	Ave	0.6029	0.6328	0.0000	21000	20000	5.0	35.0
Acenaphthylene	None		1.941	0.0000	20800	20000	3.9	35.0
Acenaphthene	Ave	0.9226	1.019	0.0000	22100	20000	10.4	35.0
Dibenzofuran	None		1.430		20300	20000	1.3	
Fluorene	None		1.123	0.0000	21300	20000	6.6	35.0
Phenanthrene	Ave	0.8573	0.9519	0.0000	22200	20000	11.0	35.0
Anthracene	Ave	0.9473	0.999	0.0000	21100	20000	5.4	35.0
Fluoranthene	None		1.112	0.0000	22300	20000	11.3	35.0
Pyrene	Ave	1.156	1.259	0.0000	21800	20000	9.0	35.0
Benzo[a]anthracene	Ave	1.075	1.128	0.0000	21000	20000	5.0	35.0
Chrysene	Ave	1.176	1.214	0.0000	20600	20000	3.2	35.0
Benzo[b]fluoranthene	Qua	0.9947	1.109	0.0000	20200	20000	0.9	35.0
Benzo[k]fluoranthene	Lin2	1.257	1.513	0.0000	21100	20000	5.7	35.0
Benzo[a]pyrene	Ave	0.9756	1.063	0.0000	21800	20000	9.0	35.0
Indeno[1,2,3-cd]pyrene	Qua	0.7458	0.7978	0.0000	20500	20000	2.4	35.0
Dibenz(a,h)anthracene	None		0.9298	0.0000	20000	20000	-0.0	35.0
Benzo[g,h,i]perylene	Ave	0.8711	0.9103	0.0000	20900	20000	4.5	35.0
o-Terphenyl	Ave	0.5460	0.5604	0.0000	20500	20000	2.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30013.D  
 Lab Smp Id: ICV-1558374  
 Inj Date : 30-MAY-2013 16:53  
 Operator : TP  
 Smp Info : ICV-1558374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-bFASTPAHi-m.m  
 Meth Date : 03-Jun-2013 10:33 cantins Quant Type: ISTD  
 Cal Date : 30-MAY-2013 16:38 Cal File: 1AE30012.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL ( ug/l)
* 1 Naphthalene-d8	136		2.494	2.493	(1.000)	682213	40.0000		
* 7 Acenaphthene-d10	164		3.520	3.524	(1.000)	336207	40.0000		
* 11 Phenanthrene-d10	188		4.460	4.465	(1.000)	558509	40.0000		
\$ 15 o-Terphenyl	230		4.754	4.758	(1.066)	156479	20.5264	20.5264	
* 19 Chrysene-d12	240		6.469	6.473	(1.000)	482825	40.0000		
* 24 Perylene-d12	264		7.548	7.552	(1.000)	386611	40.0000		
2 Naphthalene	128		2.505	2.504	(1.004)	326769	22.2374	22.2374	
3 2-Methylnaphthalene	141		2.911	2.915	(1.167)	158477	20.8113	20.8112	
4 1-Methylnaphthalene	142		2.965	2.969	(1.188)	215857	20.9941	20.9940(M)	
5 1,1'-Biphenyl	154		3.189	3.193	(1.278)	227924	19.3856	19.3855(M)	
6 Acenaphthylene	152		3.435	3.433	(0.976)	326271	20.7761	20.7761(M)	
8 Acenaphthene	154		3.541	3.540	(1.006)	171257	22.0856	22.0856	
9 Dibenzofuran	168		3.643	3.647	(1.035)	240362	20.2592	20.2591(M)	
10 Fluorene	166		3.851	3.850	(1.094)	188713	21.3146	21.3145	
12 Phenanthrene	178		4.476	4.481	(1.004)	265827	22.2081	22.2081	
13 Anthracene	178		4.508	4.513	(1.011)	278912	21.0860	21.0859	
16 Fluoranthene	202		5.336	5.341	(1.196)	310585	22.2564	22.2563(M)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/l)
17 Pyrene	202	5.502	5.501	(0.851)	304039	21.7986	21.7986
18 Benzo(a)anthracene	228	6.464	6.468	(0.999)	272318	20.9949	20.9948
20 Chrysene	228	6.485	6.489	(1.002)	293124	20.6458	20.6458(M)
21 Benzo(b)fluoranthene	252	7.276	7.280	(0.964)	214350	20.1807	20.1807
22 Benzo(k)fluoranthene	252	7.297	7.301	(0.967)	292387	21.1442	21.1442(M)
23 Benzo(a)pyrene	252	7.500	7.510	(0.994)	205562	21.8003	21.8003
25 Indeno(1,2,3-cd)pyrene	276	8.285	8.295	(1.098)	154210	20.4719	20.4719(M)
26 Dibenzo(a,h)anthracene	278	8.307	8.321	(1.100)	179733	19.9926	19.9925(M)
27 Benzo(g,h,i)perylene	276	8.488	8.503	(1.125)	175968	20.9011	20.9011(M)

QC Flag Legend

M - Compound response manually integrated.



Data File: 1AE30013.D

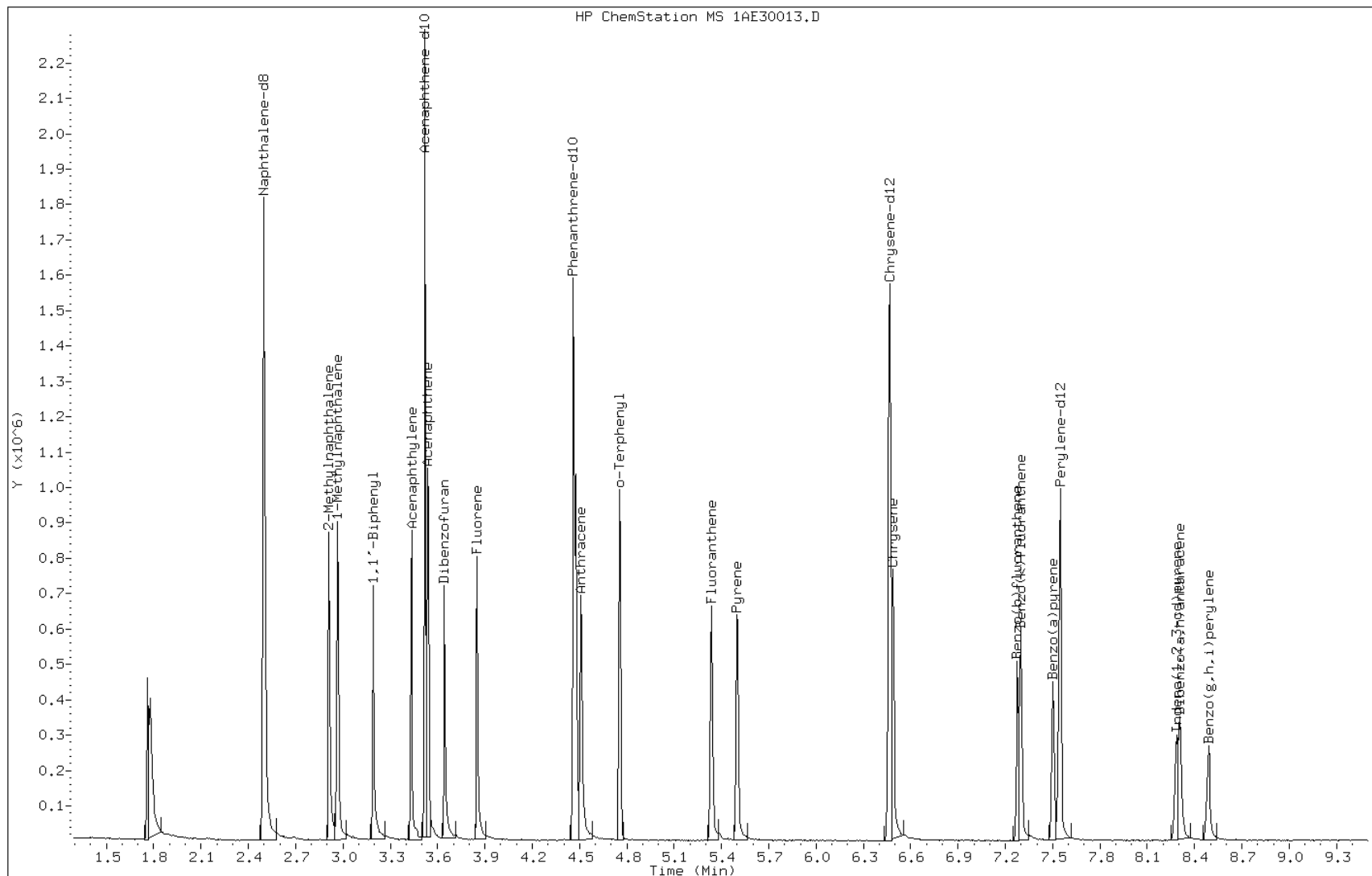
Date: 30-MAY-2013 16:53

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1558374

Operator: TP

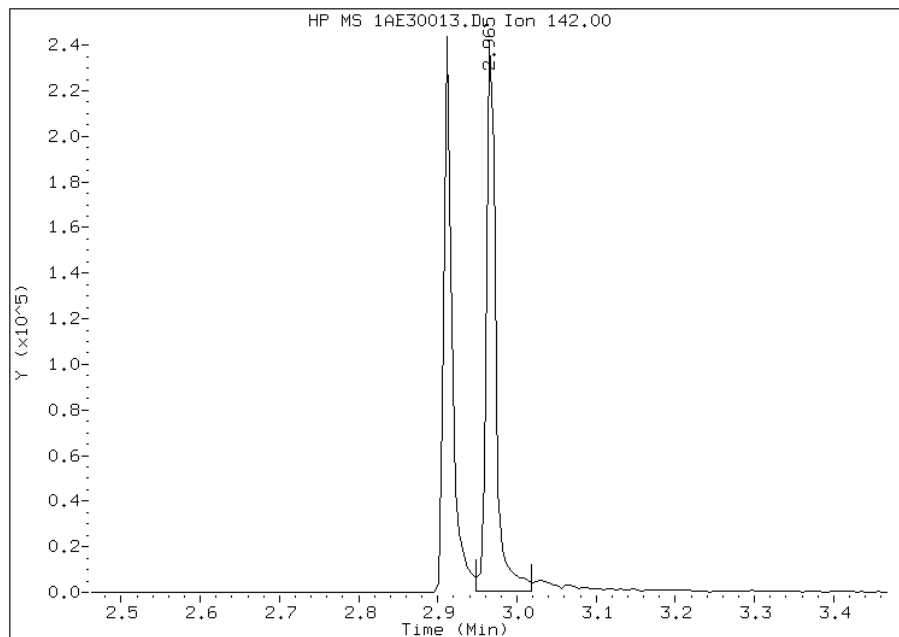


Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 4 1-Methylnaphthalene  
CAS #: 90-12-0  
Report Date: 06/03/2013

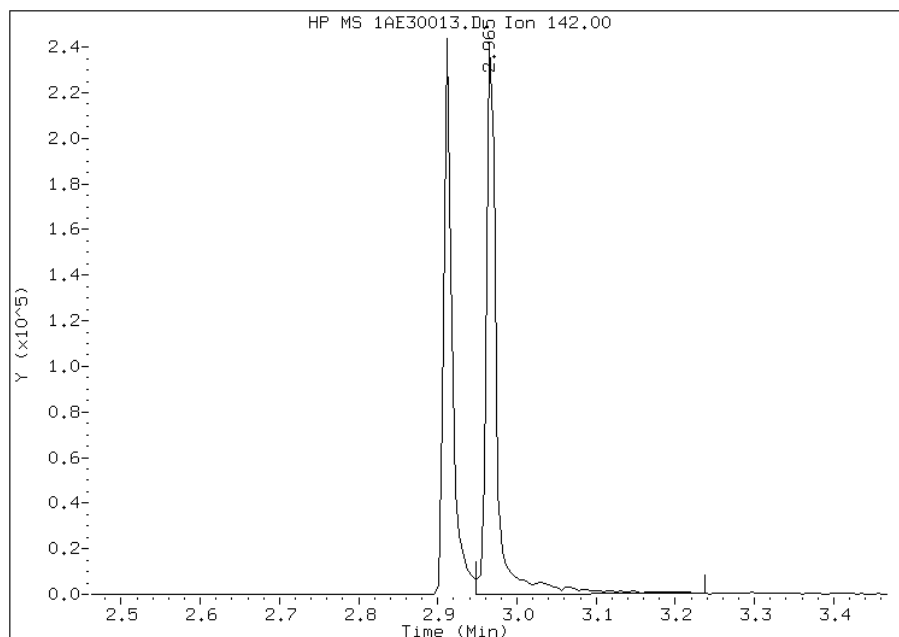
Processing Integration Results

RT: 2.97  
Response: 195522  
Amount: 20  
Conc: 20



Manual Integration Results

RT: 2.97  
Response: 215857  
Amount: 21  
Conc: 21



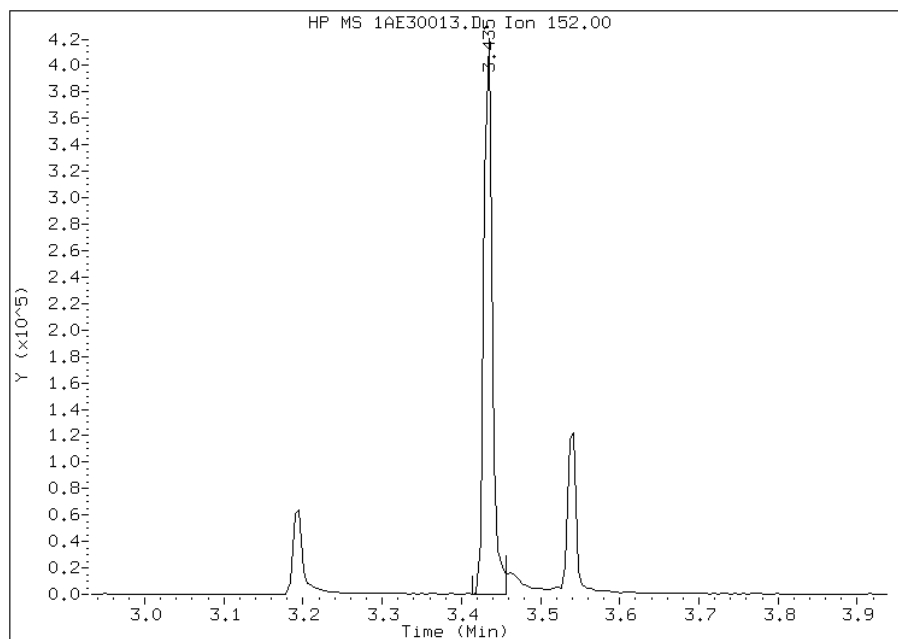
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 6 Acenaphthylene  
CAS #: 208-96-8  
Report Date: 06/03/2013

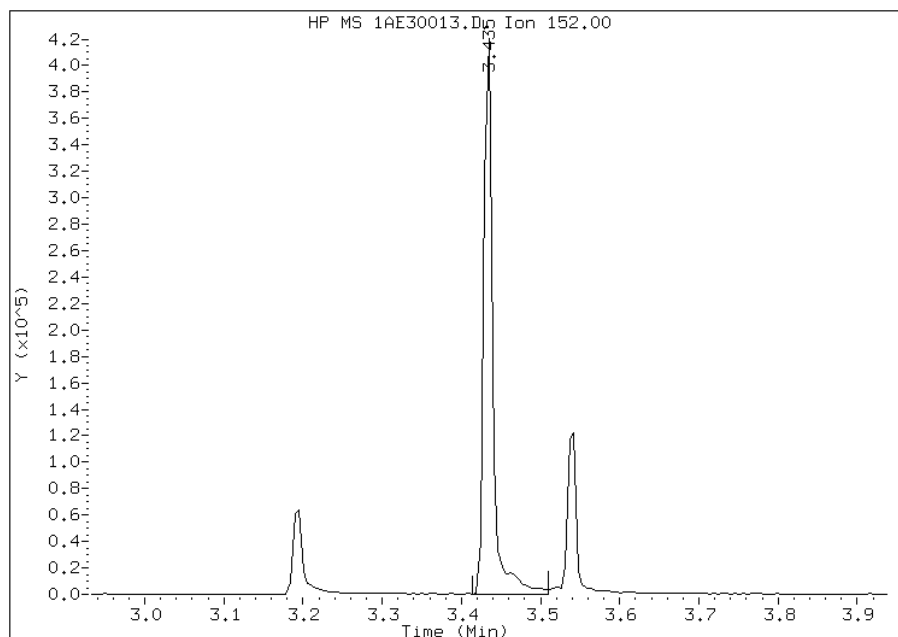
## Processing Integration Results

RT: 3.44  
Response: 303129  
Amount: 19  
Conc: 19



## Manual Integration Results

RT: 3.44  
Response: 326271  
Amount: 21  
Conc: 21



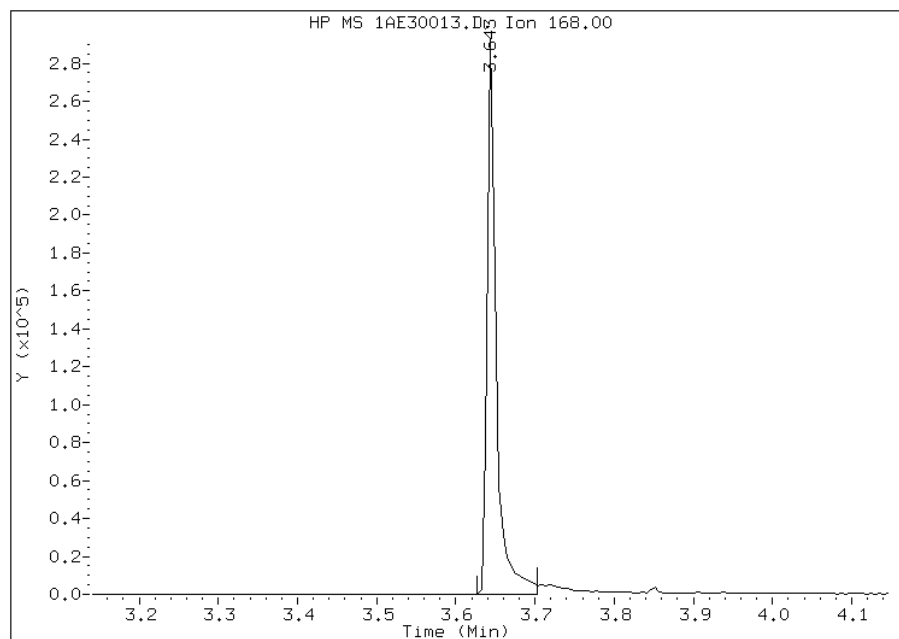
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 9 Dibenzofuran  
CAS #: 132-64-9  
Report Date: 06/03/2013

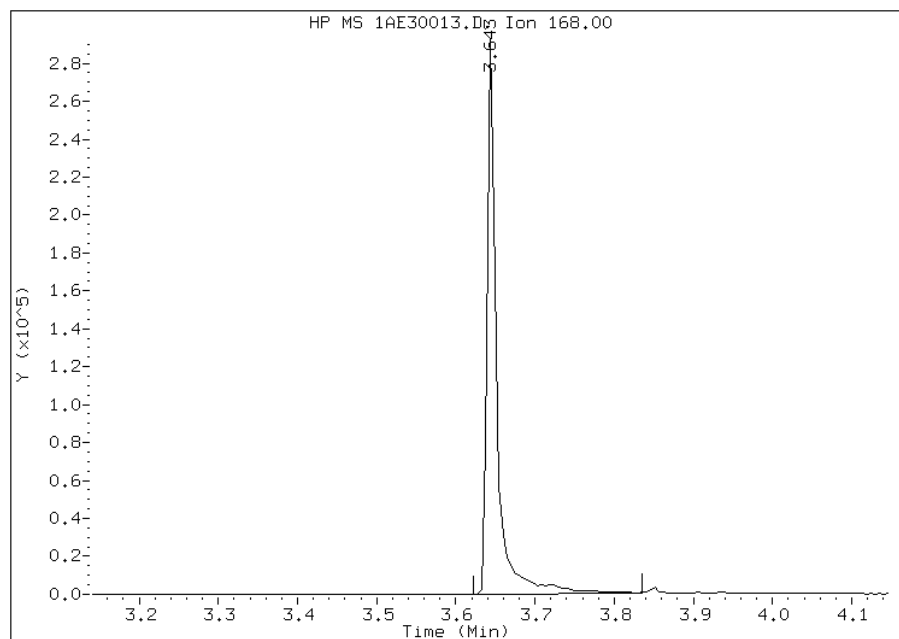
## Processing Integration Results

RT: 3.64  
Response: 227404  
Amount: 18  
Conc: 18



## Manual Integration Results

RT: 3.64  
Response: 240362  
Amount: 20  
Conc: 20



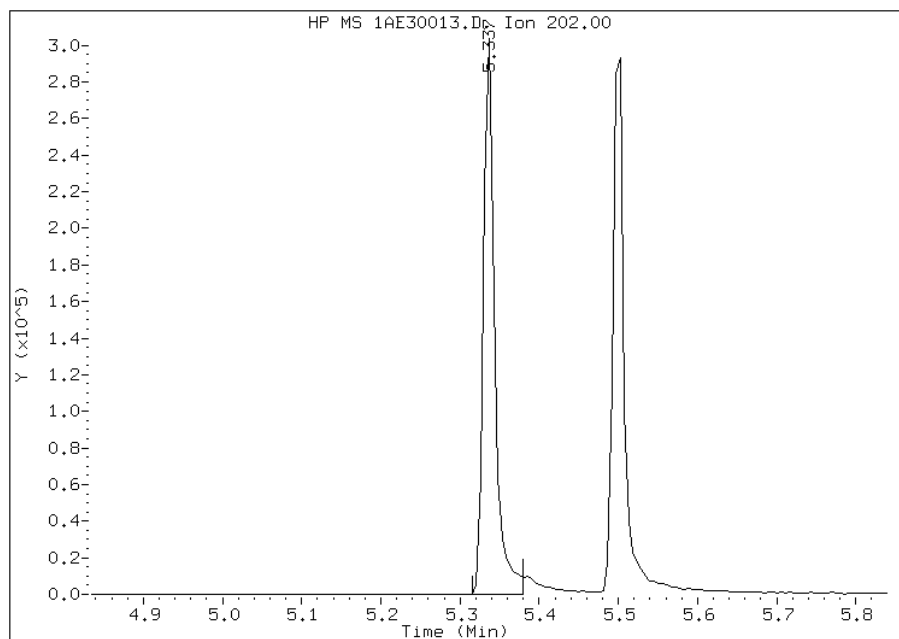
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 16 Fluoranthene  
CAS #: 206-44-0  
Report Date: 06/03/2013

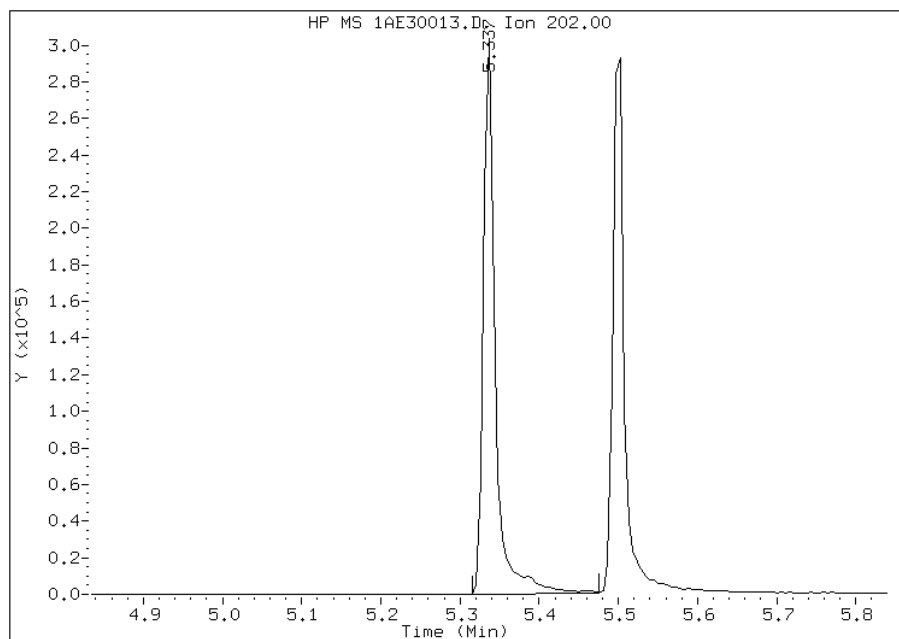
Processing Integration Results

RT: 5.34  
Response: 293917  
Amount: 21  
Conc: 21



Manual Integration Results

RT: 5.34  
Response: 310585  
Amount: 22  
Conc: 22



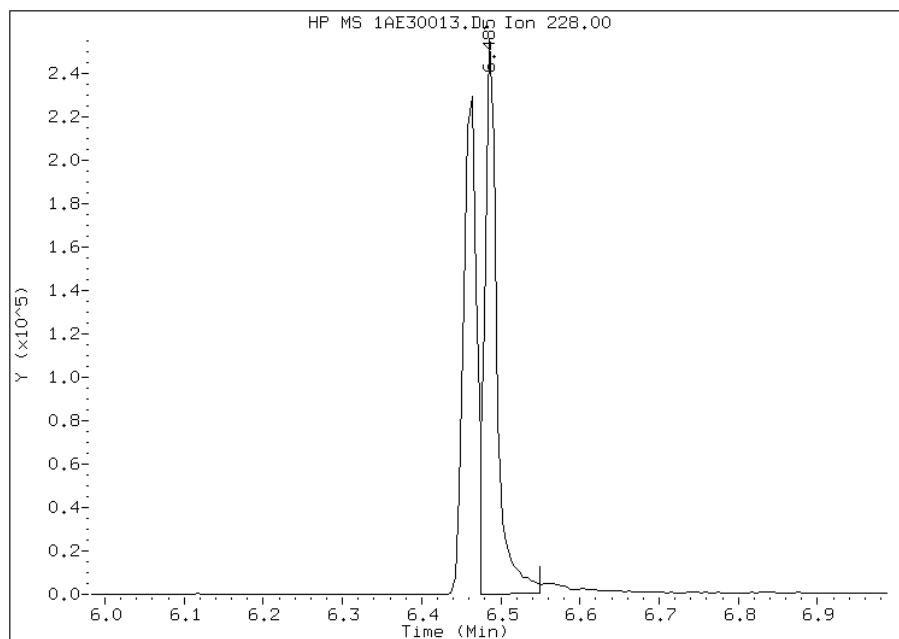
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 20 Chrysene  
CAS #: 218-01-9  
Report Date: 06/03/2013

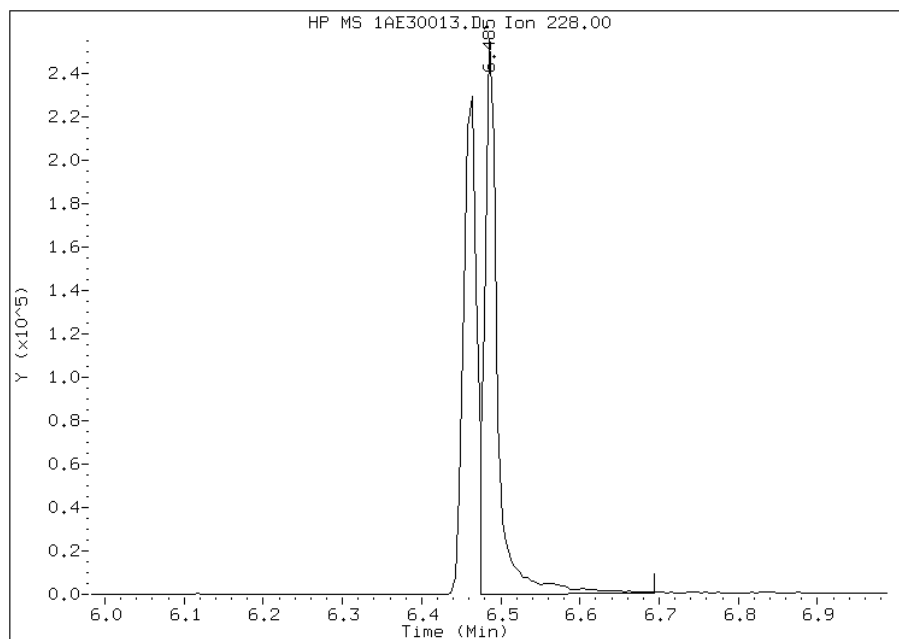
Processing Integration Results

RT: 6.49  
Response: 278021  
Amount: 20  
Conc: 20



Manual Integration Results

RT: 6.49  
Response: 293124  
Amount: 21  
Conc: 21



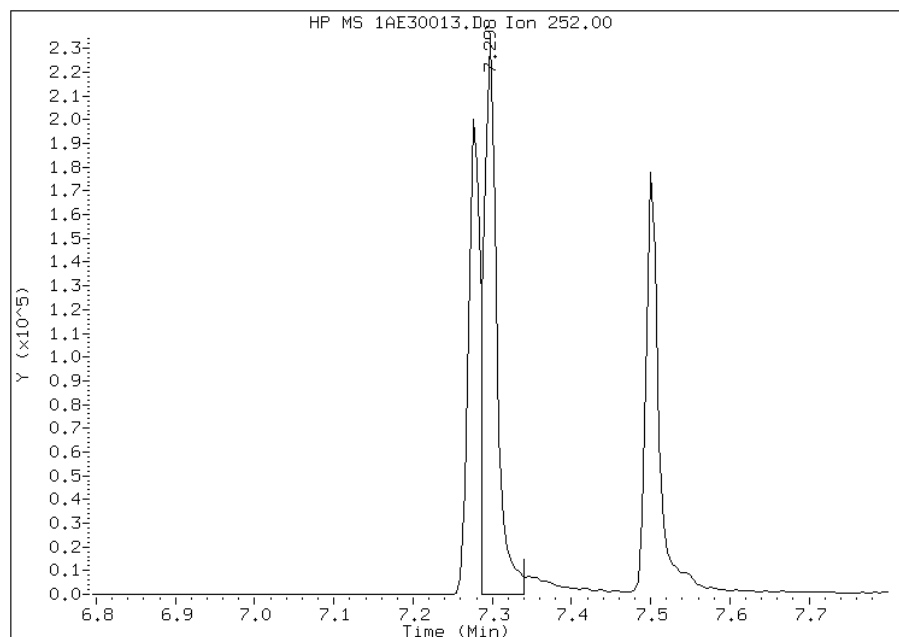
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 22 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 06/03/2013

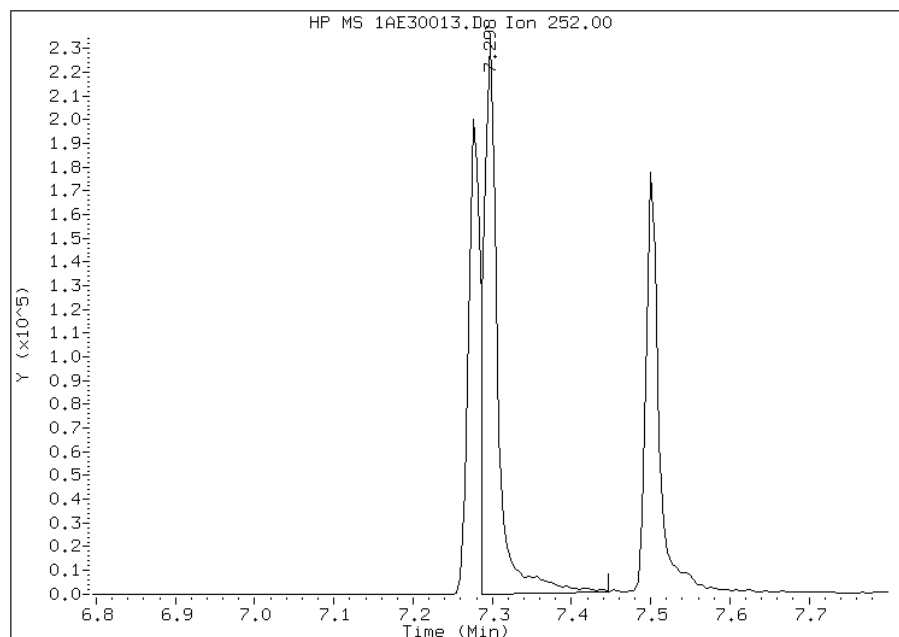
## Processing Integration Results

RT: 7.30  
Response: 273355  
Amount: 20  
Conc: 20



## Manual Integration Results

RT: 7.30  
Response: 292387  
Amount: 21  
Conc: 21



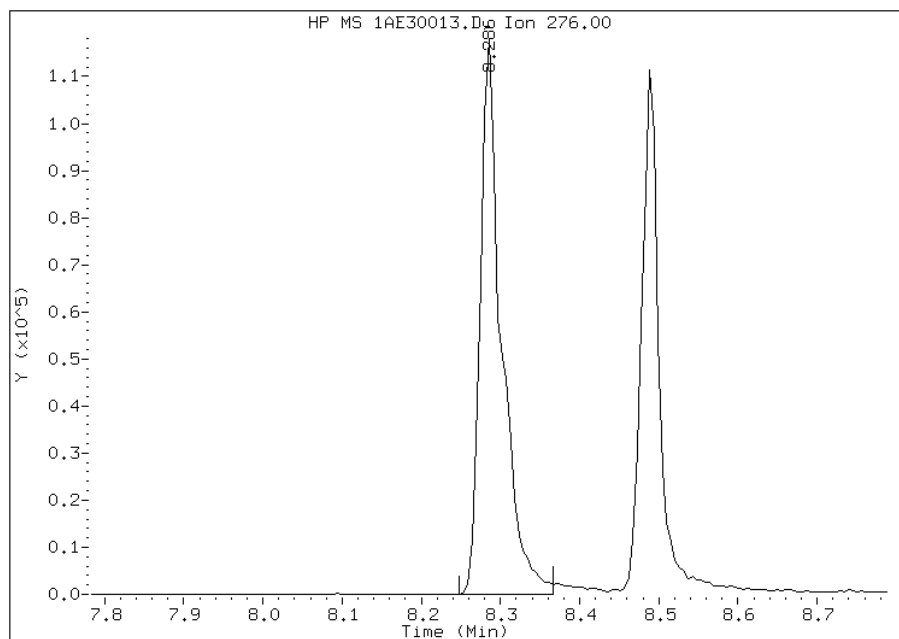
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/03/2013

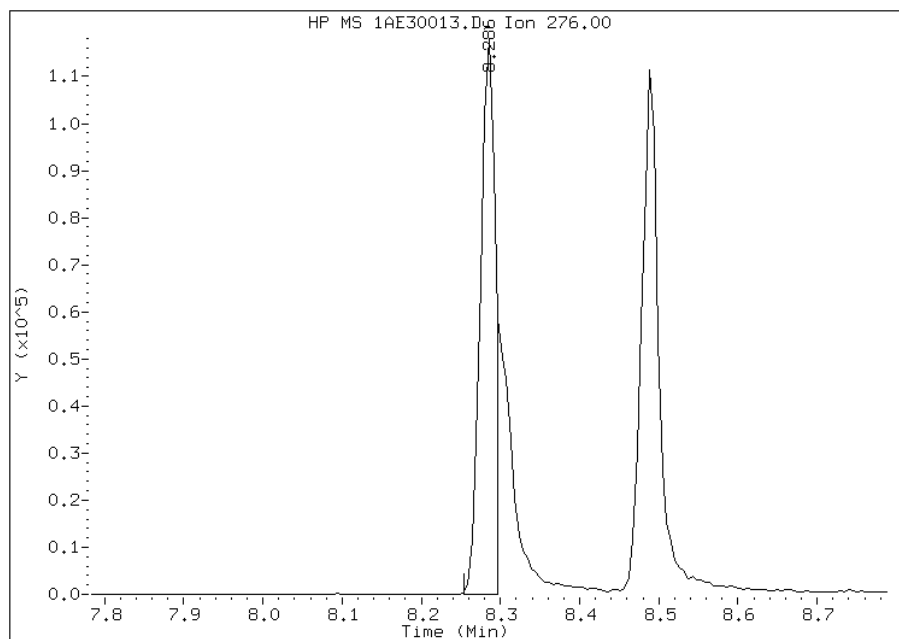
## Processing Integration Results

RT: 8.29  
Response: 218227  
Amount: 32  
Conc: 32



## Manual Integration Results

RT: 8.29  
Response: 154210  
Amount: 20  
Conc: 20



Manually Integrated By: perrint  
Modification Date: 31-May-2013 13:52  
Manual Integration Reason: Split Peak

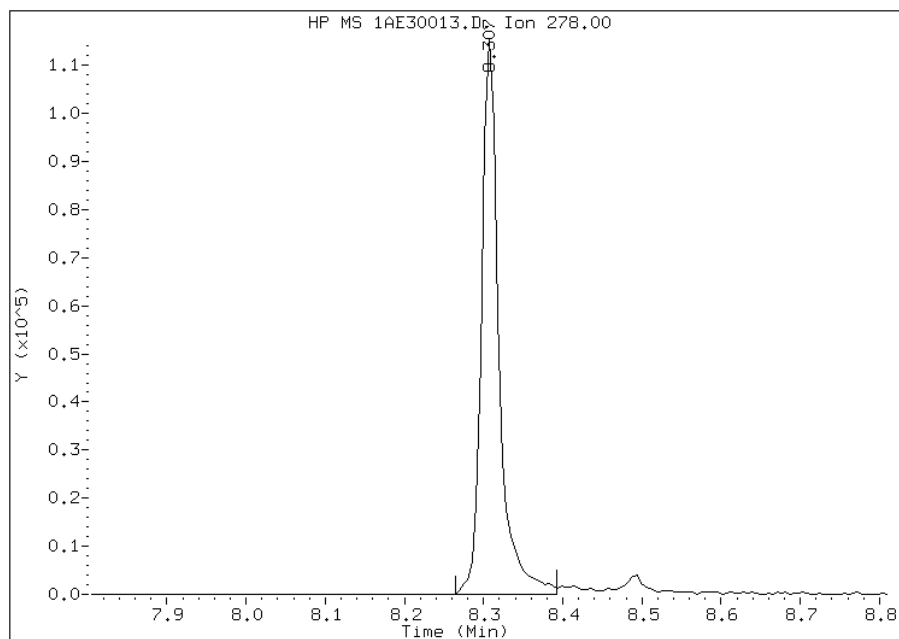


# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 26 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 06/03/2013

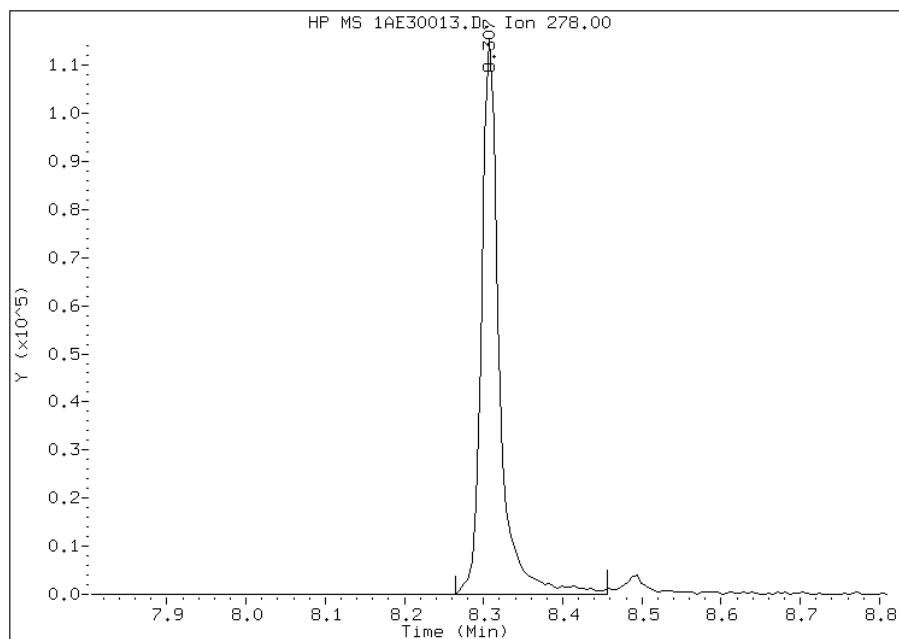
## Processing Integration Results

RT: 8.31  
Response: 174993  
Amount: 19  
Conc: 19



## Manual Integration Results

RT: 8.31  
Response: 179733  
Amount: 20  
Conc: 20



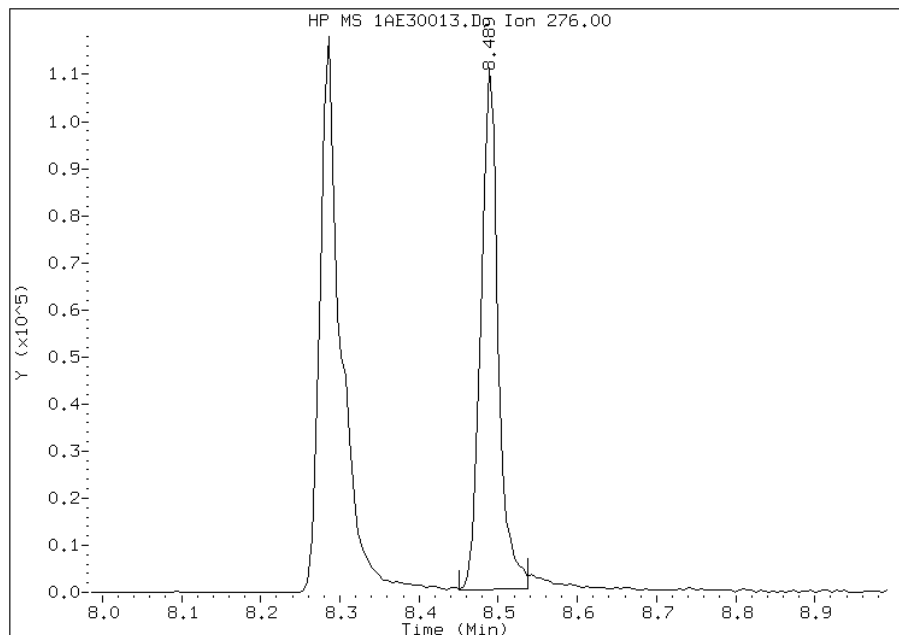
Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1AE30013.D  
Inj. Date and Time: 30-MAY-2013 16:53  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 27 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 06/03/2013

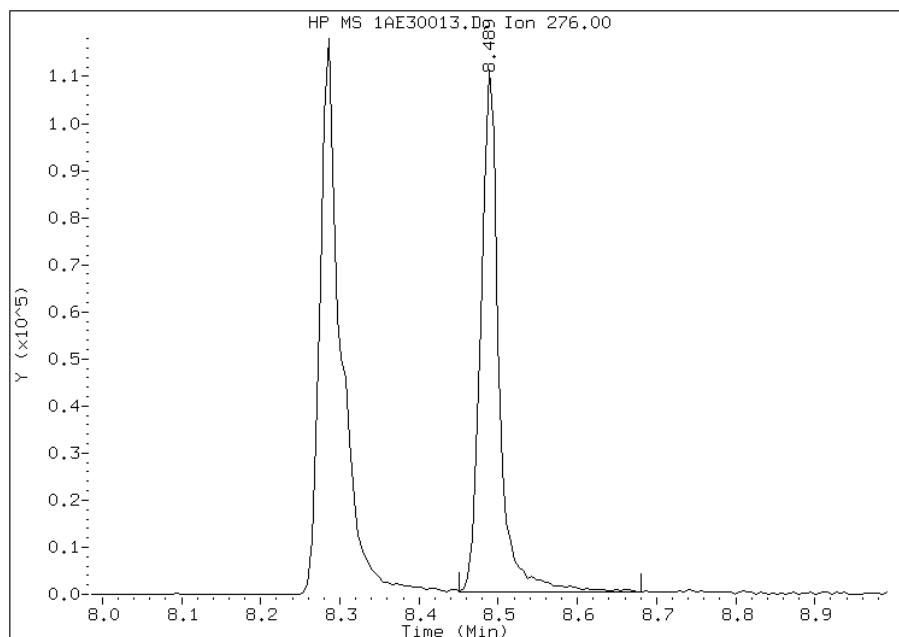
## Processing Integration Results

RT: 8.49  
Response: 166443  
Amount: 19  
Conc: 19



## Manual Integration Results

RT: 8.49  
Response: 175968  
Amount: 21  
Conc: 21



Manually Integrated By: cantins  
Modification Date: 03-Jun-2013 10:19  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: ICV 660-137704/22 Calibration Date: 05/22/2013 18:24  
 Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/22/2013 18:05  
 Lab File ID: 1CE22021.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9301	0.0000	16500	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6261	0.6170	0.0000	19700	20000	-1.5	35.0
1-Methylnaphthalene	Ave	0.6160	0.5991	0.0000	19400	20000	-2.7	35.0
Acenaphthylene	Ave	1.533	1.564	0.0000	20400	20000	2.0	35.0
Acenaphthene	Ave	0.9616	1.032	0.0000	21500	20000	7.3	35.0
Fluorene	Ave	1.227	1.251	0.0000	20400	20000	2.0	35.0
Phenanthrene	Ave	1.182	1.066	0.0000	18000	20000	-9.8	35.0
Anthracene	Ave	1.095	1.062	0.0000	19400	20000	-3.0	35.0
Carbazole	None		0.9704	0.0000	19100	20000	-4.5	35.0
Fluoranthene	Ave	1.208	1.218	0.0000	20200	20000	0.8	35.0
Pyrene	Ave	1.080	1.007	0.0000	18600	20000	-6.8	35.0
Benzo[a]anthracene	Ave	1.103	1.086	0.0000	19700	20000	-1.6	35.0
Chrysene	Ave	1.111	0.9873	0.0000	17800	20000	-11.1	35.0
Benzo[b]fluoranthene	Ave	0.9828	1.049	0.0000	21400	20000	6.8	35.0
Benzo[k]fluoranthene	Ave	1.098	1.039	0.0000	18900	20000	-5.4	35.0
Benzo[a]pyrene	Lin2	0.9064	0.8617	0.0000	17200	20000	-13.8	35.0
Indeno[1,2,3-cd]pyrene	None		0.8942	0.0000	16900	20000	-15.6	35.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9488	0.0000	22200	20000	11.1	35.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9372	0.0000	20200	20000	0.9	35.0
o-Terphenyl	Ave	0.6231	0.5760	0.0000	18500	20000	-7.6	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22021.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-MAY-2013 18:24  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\a-bFASTPAHi-m.m  
 Meth Date : 23-May-2013 10:16 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 21 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		4.057	4.057	(1.000)	3002271	40.0000		
* 6 Acenaphthene-d10	164		5.145	5.145	(1.000)	2105599	40.0000		
* 10 Phenanthrene-d10	188		6.115	6.116	(1.000)	3933786	40.0000		
\$ 14 o-Terphenyl	230		6.368	6.369	(1.041)	1132912	18.4880	18.4879	
* 18 Chrysene-d12	240		8.080	8.080	(1.000)	4897113	40.0000		
* 23 Perylene-d12	264		9.421	9.422	(1.000)	5001508	40.0000		
2 Naphthalene	128		4.068	4.069	(1.003)	1396179	16.4792	16.4791	
3 2-Methylnaphthalene	142		4.498	4.498	(1.109)	926205	19.7091	19.7091	
4 1-Methylnaphthalene	142		4.557	4.557	(1.123)	899280	19.4499	19.4499	
5 Acenaphthylene	152		5.057	5.057	(0.983)	1647037	20.4044	20.4044	
7 Acenaphthene	154		5.168	5.169	(1.005)	1085991	21.4542	21.4542	
9 Fluorene	166		5.492	5.492	(1.067)	1317395	20.3970	20.3969	
11 Phenanthrene	178		6.133	6.134	(1.003)	2097305	18.0459	18.0458	
12 Anthracene	178		6.162	6.169	(1.008)	2089618	19.4074	19.4074	
13 Carbazole	167		6.268	6.269	(1.025)	1908718	19.0953	19.0952	
15 Fluoranthene	202		6.980	6.981	(1.141)	2395060	20.1616	20.1615	
16 Pyrene	202		7.151	7.157	(0.885)	2466023	18.6485	18.6484	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/l)
17 Benzo(a)anthracene	228	8.068	8.069	(0.999)	2658526	19.6876	19.6876
19 Chrysene	228	8.098	8.098	(1.002)	2417569	17.7820	17.7819
20 Benzo(b)fluoranthene	252	9.009	9.016	(0.956)	2624437	21.3569	21.3569
21 Benzo(k)fluoranthene	252	9.039	9.039	(0.959)	2597310	18.9241	18.9240
22 Benzo(a)pyrene	252	9.356	9.357	(0.993)	2154856	17.2473	17.2473
24 Indeno(1,2,3-cd)pyrene	276	10.809	10.816	(1.147)	2236055	16.8743	16.8743(M)
25 Dibenzo(a,h)anthracene	278	10.827	10.839	(1.149)	2372617	22.2254	22.2254
26 Benzo(g,h,i)perylene	276	11.233	11.245	(1.192)	2343662	20.1705	20.1704

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CE22021.D

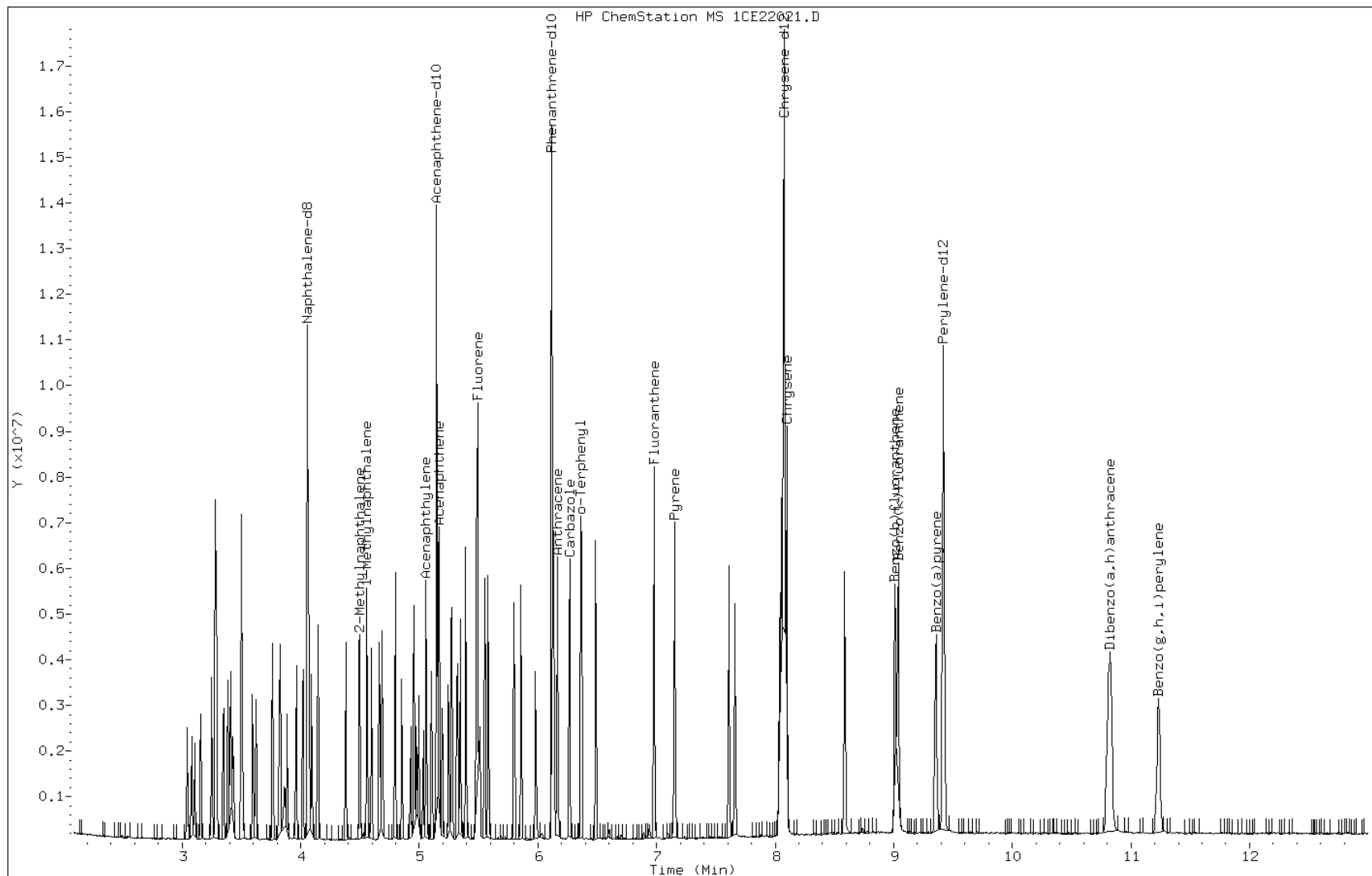
Date: 22-MAY-2013 18:24

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

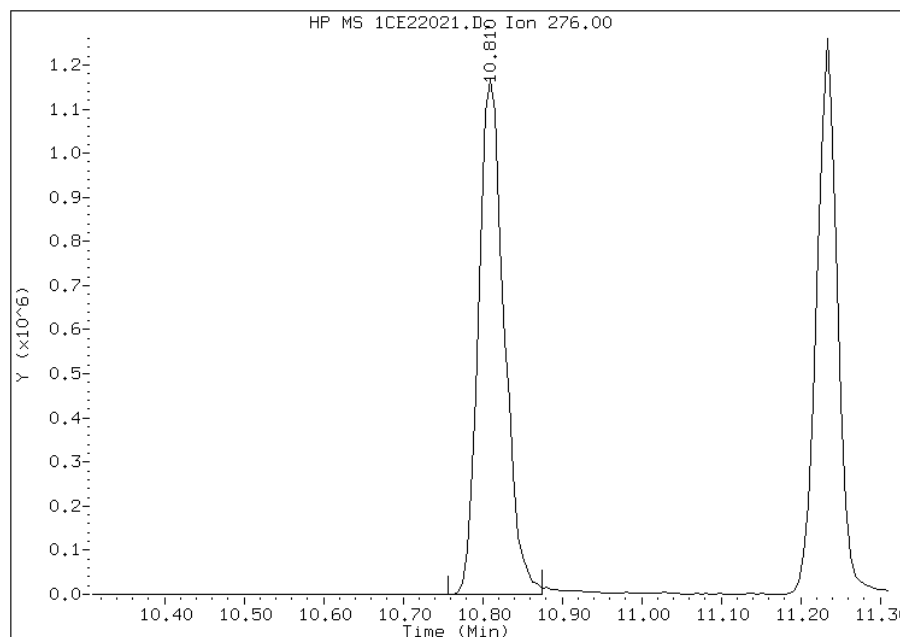


# Manual Integration Report

Data File: 1CE22021.D  
Inj. Date and Time: 22-MAY-2013 18:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 05/23/2013

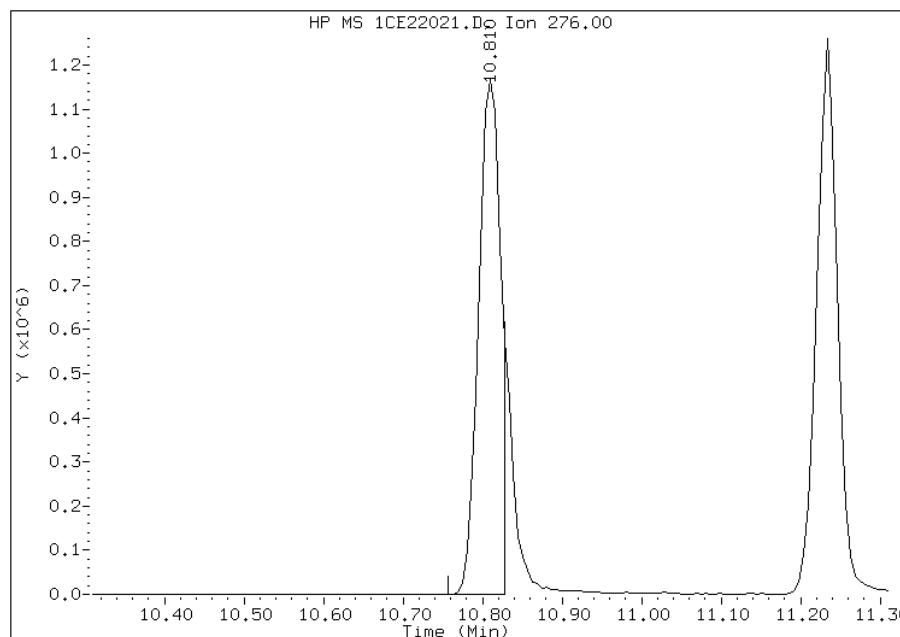
## Processing Integration Results

RT: 10.81  
Response: 2607256  
Amount: 20  
Conc: 20



## Manual Integration Results

RT: 10.81  
Response: 2236055  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 23-May-2013 10:17  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: CCVIS 660-138101/3 Calibration Date: 06/05/2013 11:24  
 Instrument ID: BSMC5973 Calib Start Date: 05/22/2013 16:16  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/22/2013 18:05  
 Lab File ID: 1CF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9715	0.9767	0.0000	17300	20000	0.5	20.0
2-Methylnaphthalene	Ave	0.6261	0.6457	0.0000	20600	20000	3.1	20.0
1-Methylnaphthalene	Ave	0.6160	0.5989	0.0000	19400	20000	-2.8	20.0
Acenaphthylene	Ave	1.533	1.620	0.0000	21100	20000	5.7	20.0
Acenaphthene	Ave	0.9616	0.9794	0.0000	20400	20000	1.8	20.0
Fluorene	Ave	1.227	1.344	0.0000	21900	20000	9.6	20.0
Phenanthrene	Ave	1.182	1.151	0.0000	19500	20000	-2.6	20.0
Anthracene	Ave	1.095	1.161	0.0000	21200	20000	6.0	20.0
Carbazole	None		1.003	0.0000	19700	20000	-1.3	20.0
Fluoranthene	Ave	1.208	1.329	0.0000	22000	20000	10.1	20.0
Pyrene	Ave	1.080	1.106	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.120	0.0000	20300	20000	1.5	20.0
Chrysene	Ave	1.111	1.103	0.0000	19900	20000	-0.6	20.0
Benzo[b]fluoranthene	Ave	0.9828	1.083	0.0000	22000	20000	10.2	20.0
Benzo[k]fluoranthene	Ave	1.098	1.110	0.0000	20200	20000	1.1	20.0
Benzo[a]pyrene	Lin2	0.9064	1.058	0.0000	21200	20000	5.8	20.0
Indeno[1,2,3-cd]pyrene	None		1.045	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.8538	0.9193	0.0000	21500	20000	7.7	20.0
Benzo[g,h,i]perylene	Ave	0.9293	0.9220	0.0000	19800	20000	-0.8	20.0
o-Terphenyl	Ave	0.6231	0.6728	0.0000	21600	20000	8.0	20.0



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05003.D  
 Lab Smp Id: CCVIS-1531401  
 Inj Date : 05-JUN-2013 11:24  
 Operator : SCC  
 Smp Info : CCVIS-1531401  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	3117690	40.0000	(H)
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	2187855	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	4236955	40.0000	(H)
\$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	1425312	20.0000	21.5953(H)
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	5431412	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	5530236	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	1522459	20.0000	17.3044(H)
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	1006483	20.0000	20.6245(H)
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	933510	20.0000	19.4428(H)
5 Acenaphthylene	152	5.039	5.039	(0.983)	1772676	20.0000	21.1352
7 Acenaphthene	154	5.145	5.145	(1.003)	1071352	20.0000	20.3692
9 Fluorene	166	5.468	5.468	(1.067)	1470467	20.0000	21.9109
11 Phenanthrene	178	6.110	6.110	(1.003)	2437616	20.0000	19.4732(H)
12 Anthracene	178	6.145	6.145	(1.009)	2459705	20.0000	21.2099(H)
13 Carbazole	167	6.251	6.251	(1.026)	2125688	20.0000	19.7403(H)
15 Fluoranthene	202	6.962	6.962	(1.143)	2816320	20.0000	22.0113(H)
16 Pyrene	202	7.133	7.133	(0.885)	3003557	20.0000	20.4790
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	3041302	20.0000	20.3067
19 Chrysene	228	8.074	8.074	(1.002)	2996246	20.0000	19.8703
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	2993341	20.0000	22.0300
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	3068148	20.0000	20.2173
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	2926217	20.0000	21.1590
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	2889439	20.0000	19.6936(M)
25 Dibenzo(a,h)anthracene	278	10.786	10.786	(1.148)	2542022	20.0000	21.5357
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	2549491	20.0000	19.8441

QC Flag Legend

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

Data File: 1CF05003.D

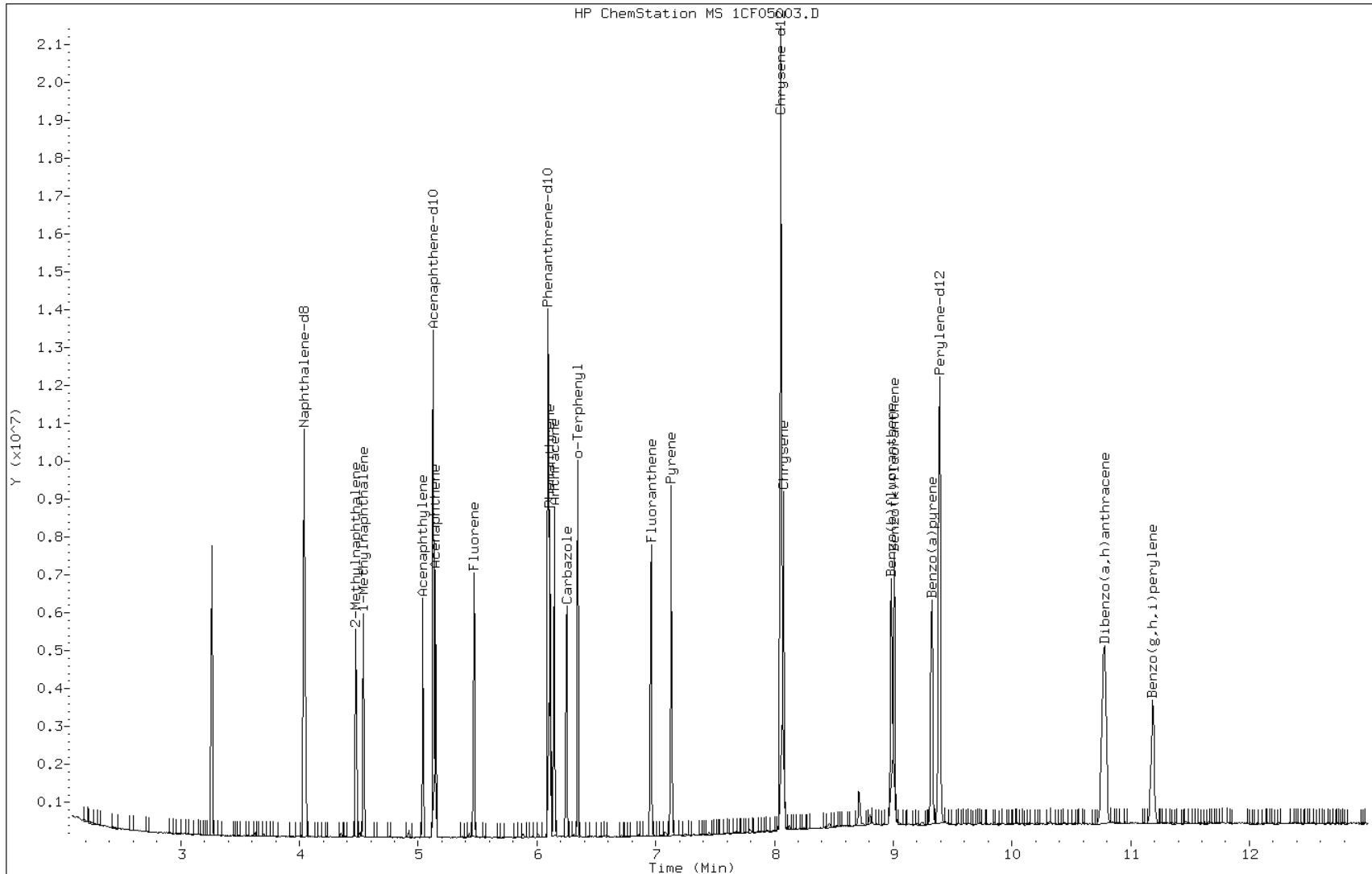
Date: 05-JUN-2013 11:24

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

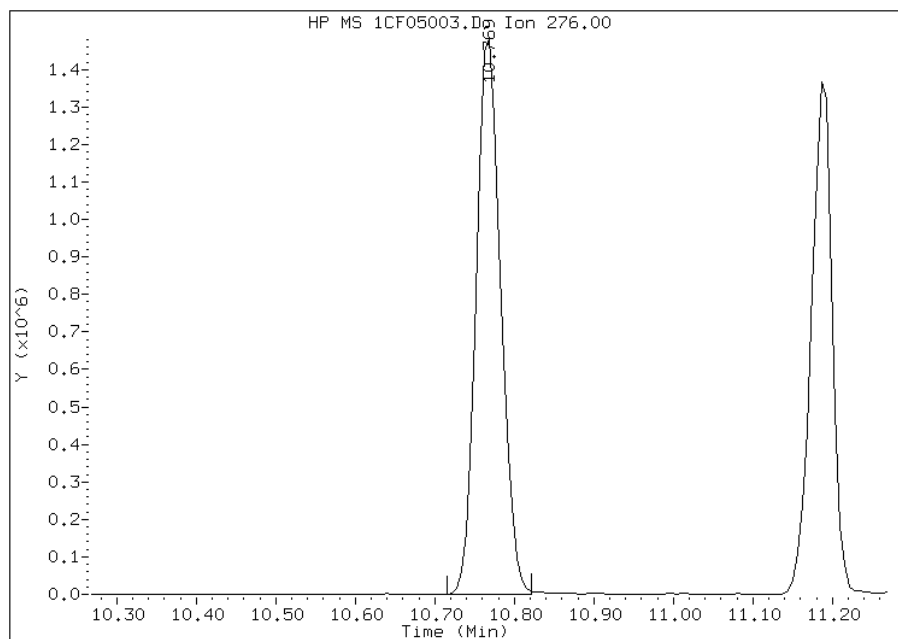


# Manual Integration Report

Data File: 1CF05003.D  
Inj. Date and Time: 05-JUN-2013 11:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/05/2013

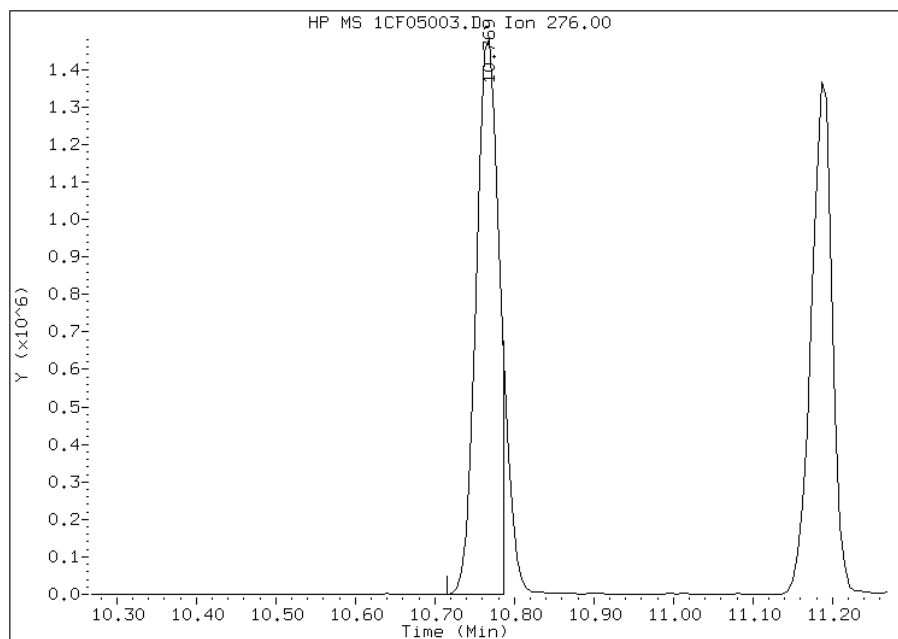
## Processing Integration Results

RT: 10.77  
Response: 3160698  
Amount: 22  
Conc: 22



## Manual Integration Results

RT: 10.77  
Response: 2889439  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 05-Jun-2013 11:40  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: ICV 660-137830/10 Calibration Date: 05/23/2013 15:41  
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19  
 Lab File ID: 1DE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.062	0.0000	21500	20000	7.7	35.0
2-Methylnaphthalene	Ave	0.6281	0.7030	0.0000	22400	20000	11.9	35.0
1-Methylnaphthalene	Ave	0.6466	0.6720	0.0000	20800	20000	3.9	35.0
Acenaphthylene	Ave	1.658	1.929	0.0000	23300	20000	16.3	35.0
Acenaphthene	Ave	1.052	1.163	0.0000	22100	20000	10.6	35.0
Dibenzofuran	Ave	1.451	1.520		21000	20000	4.8	
Fluorene	Ave	1.190	1.367	0.0000	23000	20000	14.8	35.0
Phenanthrene	Ave	1.083	1.170	0.0000	21600	20000	8.0	35.0
Anthracene	Ave	1.051	1.180	0.0000	22500	20000	12.3	35.0
Fluoranthene	Ave	1.108	1.253	0.0000	22600	20000	13.0	35.0
Pyrene	Ave	1.171	1.309	0.0000	22400	20000	11.8	35.0
Benzo[a]anthracene	Ave	1.187	1.227	0.0000	20700	20000	3.4	35.0
Chrysene	Ave	1.069	1.150	0.0000	21500	20000	7.6	35.0
Benzo[b]fluoranthene	Ave	1.002	1.129	0.0000	22500	20000	12.7	35.0
Benzo[k]fluoranthene	Ave	1.049	1.202	0.0000	22900	20000	14.5	35.0
Benzo[a]pyrene	Lin2	0.8952	1.064	0.0000	21500	20000	7.7	35.0
Indeno[1,2,3-cd]pyrene	None		1.009	0.0000	19600	20000	-2.2	35.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.023	0.0000	21500	20000	7.4	35.0
Benzo[g,h,i]perylene	Ave	0.9083	1.031	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5860	0.6262	0.0000	21400	20000	6.9	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23010.D  
 Lab Smp Id: ICV-1558374  
 Inj Date : 23-MAY-2013 15:41  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : ICV-1558374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m  
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( ug/l)	FINAL ( ug/l)
* 1 Naphthalene-d8	136	6.281	6.283 (1.000)	3254661	40.0000				
* 7 Acenaphthene-d10	164	7.949	7.952 (1.000)	1828493	40.0000				
* 11 Phenanthrene-d10	188	9.207	9.209 (1.000)	3056039	40.0000				
\$ 15 o-Terphenyl	230	9.518	9.521 (1.034)	956788	21.3703			21	
* 19 Chrysene-d12	240	11.569	11.577 (1.000)	2992199	40.0000				
* 24 Perylene-d12	264	13.472	13.481 (1.000)	3010942	40.0000				
2 Naphthalene	128	6.304	6.307 (1.004)	1728141	21.5314			22	
3 2-Methylnaphthalene	142	7.003	7.006 (1.115)	1144034	22.3865			22	
4 1-Methylnaphthalene	142	7.092	7.100 (1.129)	1093612	20.7868			21	
5 1,1'-Biphenyl	154	7.438	7.441 (0.936)	1286663	20.8277			21	
6 Acenaphthylene	152	7.820	7.823 (0.984)	1763872	23.2664			23	
8 Acenaphthene	154	7.979	7.981 (1.004)	1063560	22.1147			22	
9 Dibenzofuran	168	8.126	8.128 (1.022)	1389403	20.9522			21	
10 Fluorene	166	8.419	8.422 (1.059)	1249621	22.9645			23	
12 Phenanthrene	178	9.224	9.227 (1.002)	1787673	21.5987			22	
13 Anthracene	178	9.266	9.268 (1.006)	1803785	22.4610			22	
16 Fluoranthene	202	10.206	10.214 (1.108)	1914304	22.6079			23	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL ( ug/l)
-----	----	----	-----	-----	-----	-----	-----
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	12.908	12.923	(0.958)	1699838	22.5351	22
22 Benzo(k)fluoranthene	252	12.949	12.970	(0.961)	1809098	22.9026	23
23 Benzo(a)pyrene	252	13.378	13.393	(0.993)	1601318	21.5420	22
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.149	(1.123)	1519348	19.5614	20
26 Dibenzo(a,h)anthracene	278	15.165	15.196	(1.126)	1540208	21.4753	21
27 Benzo(g,h,i)perylene	276	15.605	15.637	(1.158)	1552255	22.7045	23

Data File: 1DE23010.D

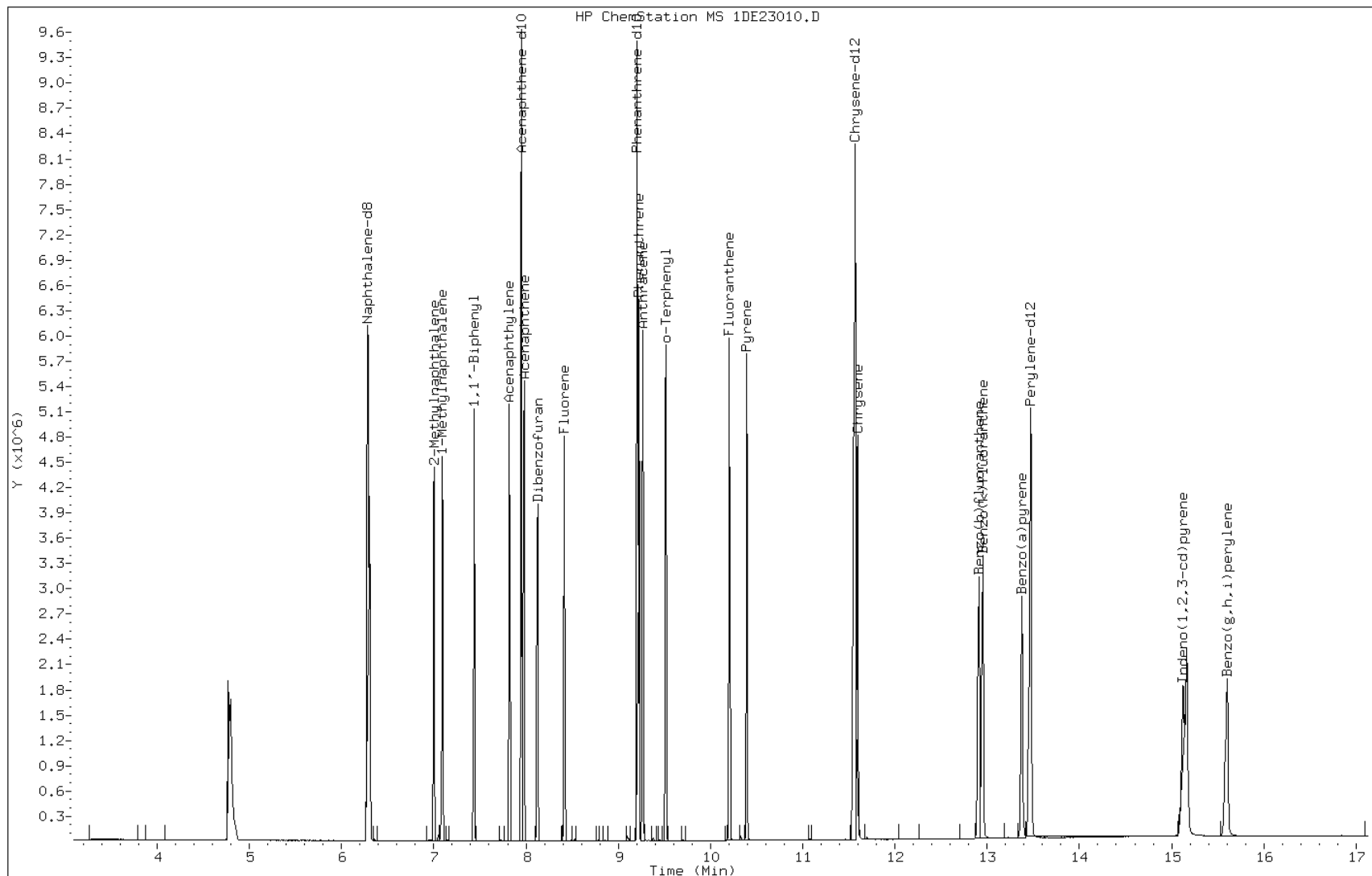
Date: 23-MAY-2013 15:41

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1558374

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: CCVIS 660-138106/3 Calibration Date: 06/05/2013 11:54  
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19  
 Lab File ID: 1DF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.002	0.0000	20300	20000	1.6	20.0
2-Methylnaphthalene	Ave	0.6281	0.6373	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6466	0.6278	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.658	1.866	0.0000	22500	20000	12.5	20.0
Acenaphthene	Ave	1.052	1.085	0.0000	20600	20000	3.1	20.0
Dibenzofuran	Ave	1.451	1.540		21200	20000	6.1	
Fluorene	Ave	1.190	1.260	0.0000	21200	20000	5.8	20.0
Phenanthrene	Ave	1.083	1.114	0.0000	20600	20000	2.8	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.1	20.0
Fluoranthene	Ave	1.108	1.136	0.0000	20500	20000	2.5	20.0
Pyrene	Ave	1.171	1.273	0.0000	21700	20000	8.7	20.0
Benzo[a]anthracene	Ave	1.187	1.154	0.0000	19400	20000	-2.8	20.0
Chrysene	Ave	1.069	1.061	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	1.002	1.073	0.0000	21400	20000	7.1	20.0
Benzo[k]fluoranthene	Ave	1.049	1.159	0.0000	22100	20000	10.5	20.0
Benzo[a]pyrene	Lin2	0.8952	1.039	0.0000	21000	20000	5.2	20.0
Indeno[1,2,3-cd]pyrene	None		1.012	0.0000	19600	20000	-2.0	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.002	0.0000	21000	20000	5.2	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9947	0.0000	21900	20000	9.5	20.0
o-Terphenyl	Ave	0.5860	0.5925	0.0000	20200	20000	1.1	20.0



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05003.D  
 Lab Smp Id: CCVIS-1559459  
 Inj Date : 05-JUN-2013 11:54  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1559459  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dfASTPAHi.m  
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.265	6.265	(1.000)	3131433	40.0000	
* 7 Acenaphthene-d10	164	7.934	7.934	(1.000)	1623515	40.0000	
* 11 Phenanthrene-d10	188	9.191	9.191	(1.000)	2616277	40.0000	
\$ 15 o-Terphenyl	230	9.503	9.503	(1.034)	775049	20.0000	20
* 19 Chrysene-d12	240	11.553	11.553	(1.000)	2384410	40.0000	
* 24 Perylene-d12	264	13.457	13.457	(1.000)	2379163	40.0000	
2 Naphthalene	128	6.289	6.289	(1.004)	1569464	20.0000	20
3 2-Methylnaphthalene	142	6.988	6.988	(1.115)	997821	20.0000	20
4 1-Methylnaphthalene	142	7.076	7.076	(1.129)	982874	20.0000	19
5 1,1'-Biphenyl	154	7.423	7.423	(0.936)	1196549	20.0000	22
6 Acenaphthylene	152	7.811	7.811	(0.984)	1514934	20.0000	22
8 Acenaphthene	154	7.963	7.963	(1.004)	880676	20.0000	21
9 Dibenzofuran	168	8.110	8.110	(1.022)	1249709	20.0000	21
10 Fluorene	166	8.404	8.404	(1.059)	1022637	20.0000	21
12 Phenanthrene	178	9.215	9.215	(1.003)	1457241	20.0000	20
13 Anthracene	178	9.256	9.256	(1.007)	1473173	20.0000	21
16 Fluoranthene	202	10.196	10.196	(1.109)	1486165	20.0000	20
17 Pyrene	202	10.384	10.384	(0.899)	1517275	20.0000	22
18 Benzo(a)anthracene	228	11.542	11.542	(0.999)	1375263	20.0000	19
20 Chrysene	228	11.583	11.583	(1.003)	1264349	20.0000	20
21 Benzo(b)fluoranthene	252	12.893	12.893	(0.958)	1276481	20.0000	21
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.961)	1378884	20.0000	22
23 Benzo(a)pyrene	252	13.363	13.363	(0.993)	1235874	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.122)	1203397	20.0000	20(H)
26 Dibenzo(a,h)anthracene	278	15.137	15.137	(1.125)	1192509	20.0000	21
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.157)	1183228	20.0000	22

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DF05003.D

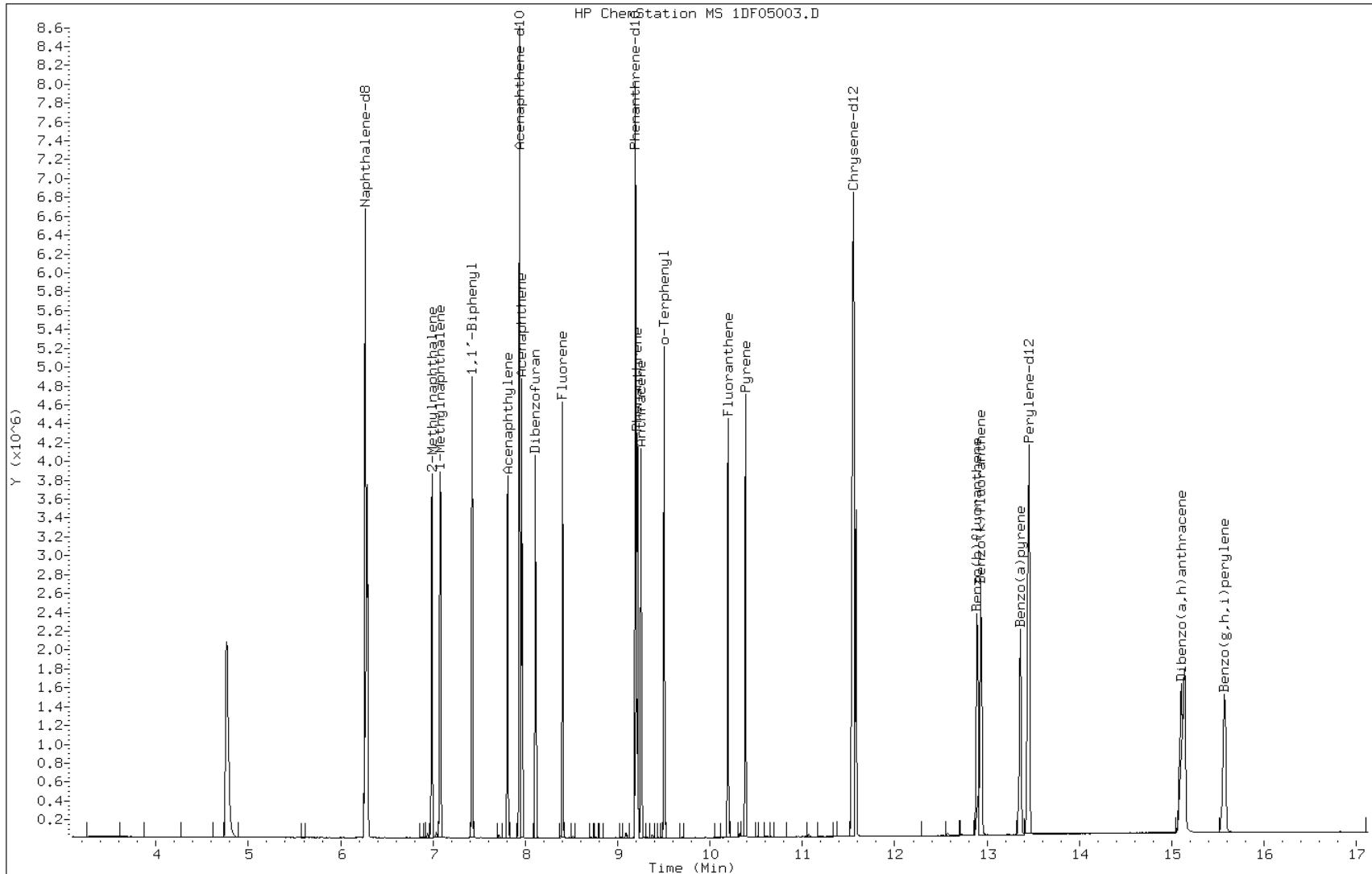
Date: 05-JUN-2013 11:54

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: CCVIS 660-138163/4 Calibration Date: 06/06/2013 12:56  
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19  
 Lab File ID: 1DF06004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.998	0.0000	20200	20000	1.2	20.0
2-Methylnaphthalene	Ave	0.6281	0.6625	0.0000	21100	20000	5.5	20.0
1-Methylnaphthalene	Ave	0.6466	0.6503	0.0000	20100	20000	0.6	20.0
Acenaphthylene	Ave	1.658	1.878	0.0000	22700	20000	13.3	20.0
Acenaphthene	Ave	1.052	1.088	0.0000	20700	20000	3.4	20.0
Dibenzofuran	Ave	1.451	1.592		21900	20000	9.7	
Fluorene	Ave	1.190	1.338	0.0000	22500	20000	12.4	20.0
Phenanthrene	Ave	1.083	1.118	0.0000	20600	20000	3.2	20.0
Anthracene	Ave	1.051	1.165	0.0000	22200	20000	10.9	20.0
Fluoranthene	Ave	1.108	1.234	0.0000	22300	20000	11.4	20.0
Pyrene	Ave	1.171	1.192	0.0000	20400	20000	1.8	20.0
Benzo[a]anthracene	Ave	1.187	1.179	0.0000	19900	20000	-0.7	20.0
Chrysene	Ave	1.069	1.054	0.0000	19700	20000	-1.4	20.0
Benzo[b]fluoranthene	Ave	1.002	1.086	0.0000	21700	20000	8.4	20.0
Benzo[k]fluoranthene	Ave	1.049	1.124	0.0000	21400	20000	7.1	20.0
Benzo[a]pyrene	Lin2	0.8952	1.046	0.0000	21200	20000	5.9	20.0
Indeno[1,2,3-cd]pyrene	None		1.043	0.0000	20200	20000	1.1	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.031	0.0000	21600	20000	8.2	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9883	0.0000	21800	20000	8.8	20.0
o-Terphenyl	Ave	0.5860	0.6538	0.0000	22300	20000	11.6	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06004.D  
 Lab Smp Id: CCVIS-1559459  
 Inj Date : 06-JUN-2013 12:56  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1559459  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\dfASTPAHi.m  
 Meth Date : 06-Jun-2013 13:17 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 4 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.274	6.274	(1.000)	4994332	40.0000	
* 7 Acenaphthene-d10	164	7.943	7.943	(1.000)	2767803	40.0000	
* 11 Phenanthrene-d10	188	9.200	9.200	(1.000)	4761090	40.0000	
\$ 15 o-Terphenyl	230	9.506	9.506	(1.033)	1556505	20.0000	22
* 19 Chrysene-d12	240	11.568	11.568	(1.000)	5009241	40.0000	
* 24 Perylene-d12	264	13.478	13.478	(1.000)	5178715	40.0000	
2 Naphthalene	128	6.292	6.292	(1.003)	2492844	20.0000	20
3 2-Methylnaphthalene	142	6.991	6.991	(1.114)	1654430	20.0000	21
4 1-Methylnaphthalene	142	7.085	7.085	(1.129)	1623885	20.0000	20
5 1,1'-Biphenyl	154	7.426	7.426	(0.935)	2042414	20.0000	22
6 Acenaphthylene	152	7.814	7.814	(0.984)	2599502	20.0000	23
8 Acenaphthene	154	7.967	7.967	(1.003)	1505804	20.0000	21
9 Dibenzofuran	168	8.113	8.113	(1.021)	2202684	20.0000	22
10 Fluorene	166	8.407	8.407	(1.058)	1851612	20.0000	22
12 Phenanthrene	178	9.218	9.218	(1.002)	2662467	20.0000	21
13 Anthracene	178	9.259	9.259	(1.006)	2774487	20.0000	22
16 Fluoranthene	202	10.199	10.199	(1.109)	2938115	20.0000	22
17 Pyrene	202	10.387	10.387	(0.898)	2985719	20.0000	20
18 Benzo(a)anthracene	228	11.545	11.545	(0.998)	2953306	20.0000	20
20 Chrysene	228	11.598	11.598	(1.003)	2639557	20.0000	20
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2811850	20.0000	22
22 Benzo(k)fluoranthene	252	12.955	12.955	(0.961)	2911355	20.0000	21
23 Benzo(a)pyrene	252	13.378	13.378	(0.993)	2708310	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2701330	20.0000	20
26 Dibenzo(a,h)anthracene	278	15.170	15.170	(1.126)	2669468	20.0000	22
27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2559120	20.0000	22

Data File: 1DF06004.D

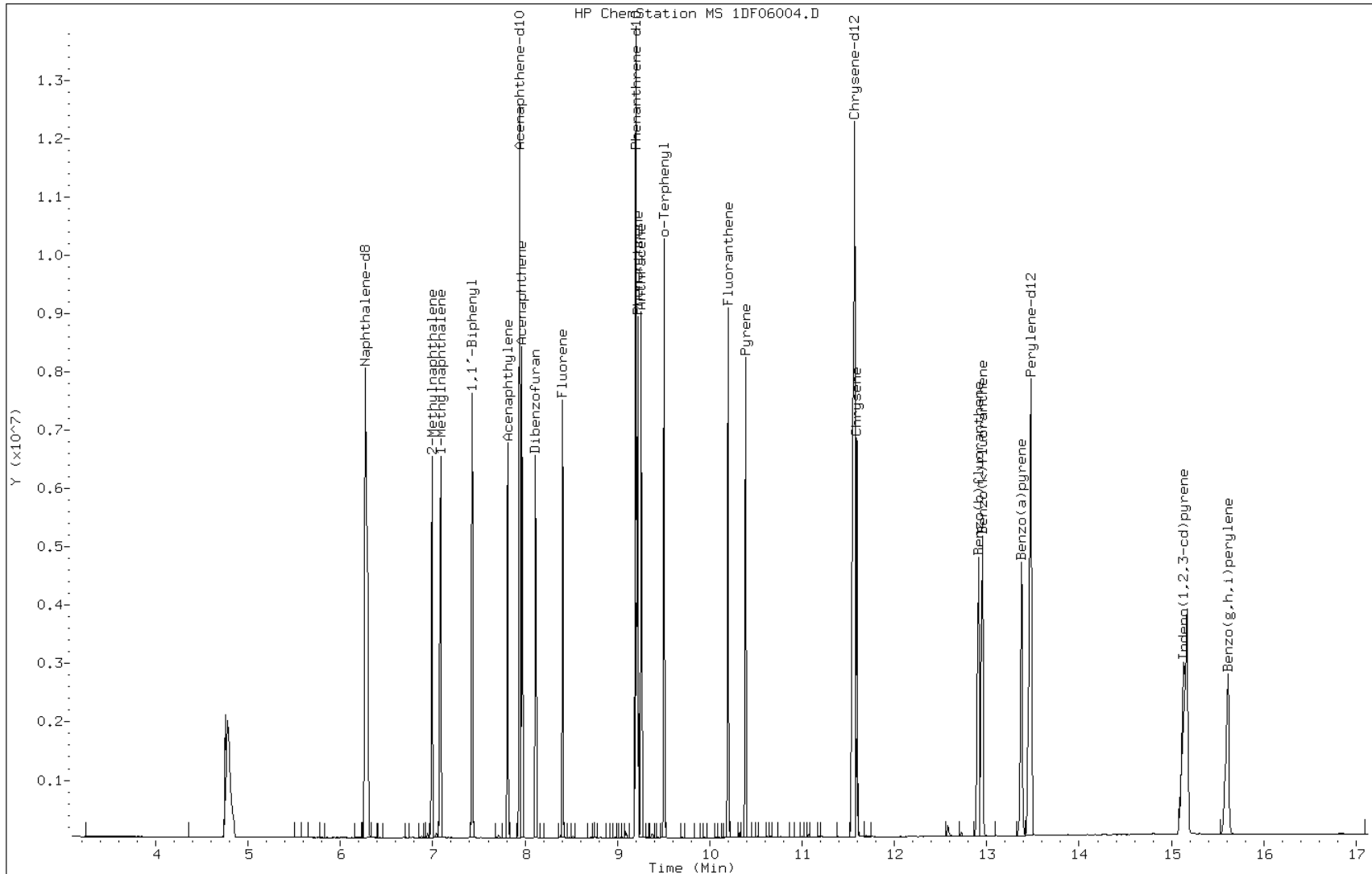
Date: 06-JUN-2013 12:56

Client ID:

Instrument: BSMDS.i

Sample Info: CCVIS-1559459

Operator: SCC



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Lab Sample ID: CCVIS 660-138216/3 Calibration Date: 06/09/2013 10:03  
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19  
 Lab File ID: 1DF09003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	0.9949	0.0000	20200	20000	0.9	20.0
2-Methylnaphthalene	Ave	0.6281	0.6459	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6466	0.6408	0.0000	19800	20000	-0.9	20.0
Acenaphthylene	Ave	1.658	1.836	0.0000	22100	20000	10.7	20.0
Acenaphthene	Ave	1.052	1.072	0.0000	20400	20000	1.9	20.0
Dibenzofuran	Ave	1.451	1.562		21500	20000	7.7	
Fluorene	Ave	1.190	1.278	0.0000	21500	20000	7.4	20.0
Phenanthrene	Ave	1.083	1.091	0.0000	20100	20000	0.7	20.0
Anthracene	Ave	1.051	1.112	0.0000	21200	20000	5.8	20.0
Fluoranthene	Ave	1.108	1.153	0.0000	20800	20000	4.0	20.0
Pyrene	Ave	1.171	1.220	0.0000	20800	20000	4.2	20.0
Benzo[a]anthracene	Ave	1.187	1.161	0.0000	19600	20000	-2.2	20.0
Chrysene	Ave	1.069	1.022	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.002	1.102	0.0000	22000	20000	10.0	20.0
Benzo[k]fluoranthene	Ave	1.049	1.109	0.0000	21100	20000	5.7	20.0
Benzo[a]pyrene	Lin2	0.8952	1.029	0.0000	20800	20000	4.2	20.0
Indeno[1,2,3-cd]pyrene	None		1.013	0.0000	19600	20000	-1.9	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	0.9857	0.0000	20700	20000	3.5	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9616	0.0000	21200	20000	5.9	20.0
o-Terphenyl	Ave	0.5860	0.6149	0.0000	21000	20000	4.9	20.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09003.D  
 Lab Smp Id: CCVIS-1559459  
 Inj Date : 09-JUN-2013 10:03  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : CCVIS-1559459  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dfASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah+2.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.263	6.263	(1.000)	3534561	40.0000	
* 7 Acenaphthene-d10	164	7.932	7.932	(1.000)	1941167	40.0000	
* 11 Phenanthrene-d10	188	9.189	9.189	(1.000)	3288683	40.0000	
\$ 15 o-Terphenyl	230	9.500	9.500	(1.034)	1011065	20.0000	21
* 19 Chrysene-d12	240	11.557	11.557	(1.000)	3128341	40.0000	
* 24 Perylene-d12	264	13.460	13.460	(1.000)	3075668	40.0000	
2 Naphthalene	128	6.281	6.281	(1.003)	1758199	20.0000	20
3 2-Methylnaphthalene	142	6.980	6.980	(1.114)	1141466	20.0000	20
4 1-Methylnaphthalene	142	7.074	7.074	(1.129)	1132457	20.0000	20
5 1,1'-Biphenyl	154	7.421	7.421	(0.936)	1407944	20.0000	21
6 Acenaphthylene	152	7.802	7.802	(0.984)	1781994	20.0000	22
8 Acenaphthene	154	7.961	7.961	(1.004)	1040265	20.0000	20
9 Dibenzofuran	168	8.108	8.108	(1.022)	1515698	20.0000	22
10 Fluorene	166	8.402	8.402	(1.059)	1240557	20.0000	21
12 Phenanthrene	178	9.207	9.207	(1.002)	1794148	20.0000	20
13 Anthracene	178	9.248	9.248	(1.006)	1829216	20.0000	21
16 Fluoranthene	202	10.194	10.194	(1.109)	1895517	20.0000	21
17 Pyrene	202	10.382	10.382	(0.898)	1907896	20.0000	21
18 Benzo(a)anthracene	228	11.539	11.539	(0.998)	1815974	20.0000	20
20 Chrysene	228	11.580	11.580	(1.002)	1598736	20.0000	19
21 Benzo(b)fluoranthene	252	12.896	12.896	(0.958)	1695035	20.0000	22
22 Benzo(k)fluoranthene	252	12.938	12.938	(0.961)	1705593	20.0000	21
23 Benzo(a)pyrene	252	13.361	13.361	(0.993)	1582915	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.111	15.111	(1.123)	1557079	20.0000	20(H)
26 Dibenzo(a,h)anthracene	278	15.147	15.147	(1.125)	1515851	20.0000	21
27 Benzo(g,h,i)perylene	276	15.587	15.587	(1.158)	1478714	20.0000	21

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DF09003.D

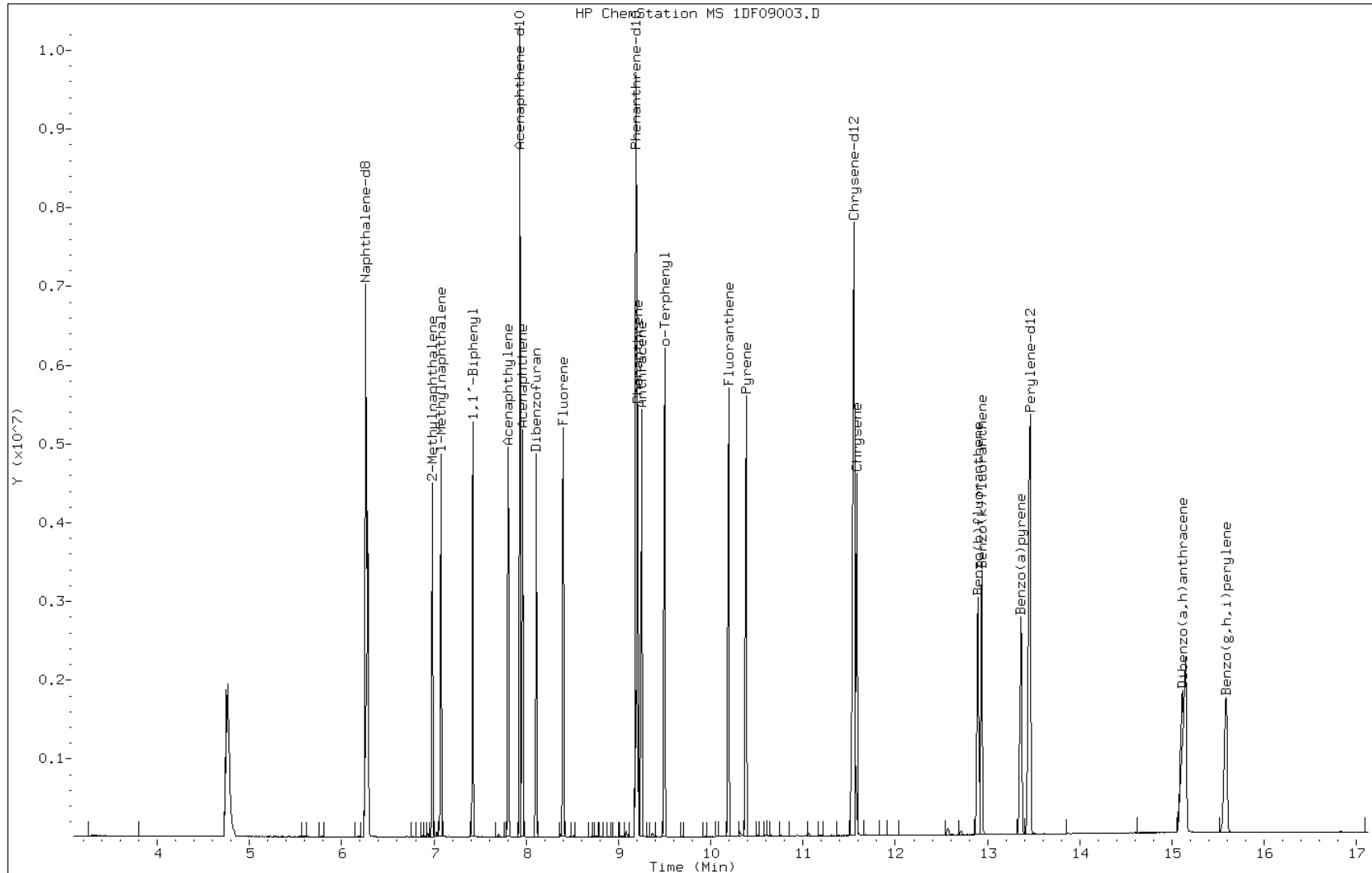
Date: 09-JUN-2013 10:03

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC





TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30005.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 30-MAY-2013 14:51  
 Operator : SCC Inst ID: BSMA5973.i  
 Smp Info : DFTPP-1525851  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\a-dftpp198.m  
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.833	4.963	-0.130	198	45600			50.00-	0.00	100.00
4.833	4.963	-0.130	51	23392			10.00-	80.00	51.30
4.833	4.963	-0.130	68	0	0.0	0.0	0.00-	2.00	0.00
4.833	4.963	-0.130	69	19736			0.00-	0.00	43.28
4.833	4.963	-0.130	70	0	0.0	0.0	0.00-	2.00	0.00
4.833	4.963	-0.130	127	22552			10.00-	80.00	49.46
4.833	4.963	-0.130	197	0	0.0	0.0	0.00-	2.00	0.00
4.833	4.963	-0.130	442	34984			50.00-	0.00	76.72
4.833	4.963	-0.130	199	3342			5.00-	9.00	7.33
4.833	4.963	-0.130	275	11324			10.00-	60.00	24.83
4.833	4.963	-0.130	365	1475			1.00-	0.00	3.23
4.833	4.963	-0.130	441	5222			0.01-	99.99	82.18
4.833	4.963	-0.130	443	6354			15.00-	24.00	18.16

Data File: 1AE30005.D

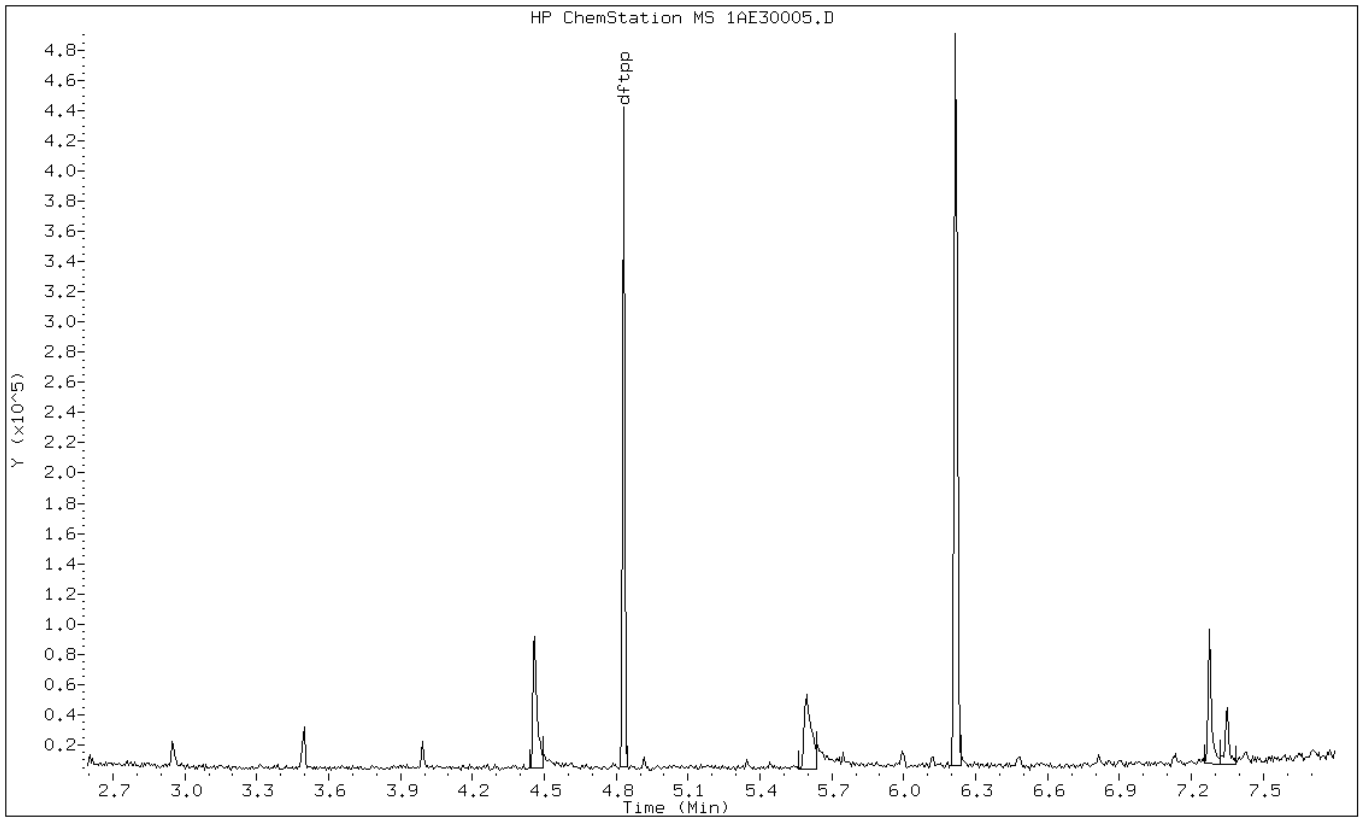
Date: 30-MAY-2013 14:51

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE30005.D

Date: 30-MAY-2013 14:51

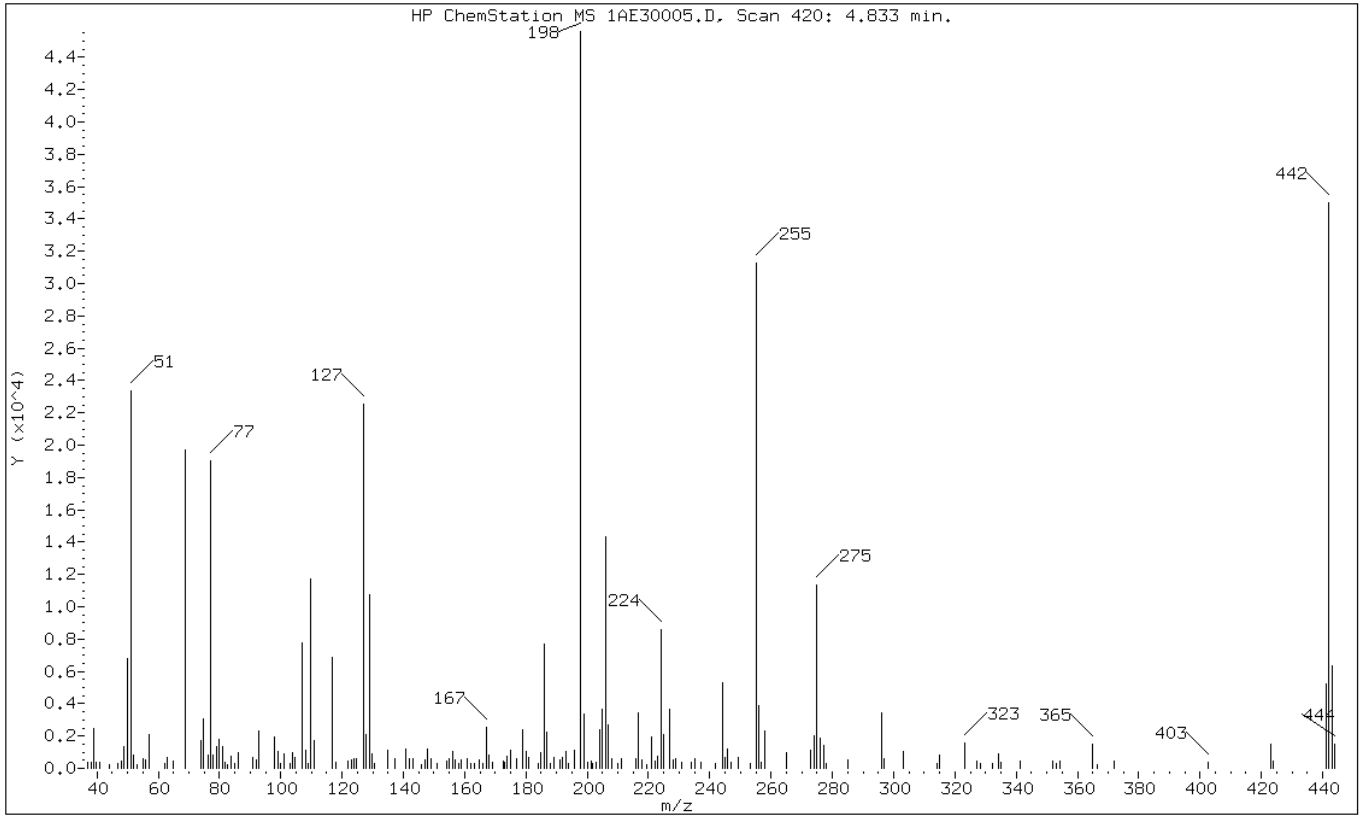
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

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	51.30
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	43.28
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	49.46
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	76.72
199	5.00 - 9.00% of mass 198	7.33
275	10.00 - 60.00% of mass 198	24.83
365	Greater than 1.00% of mass 198	3.23
441	Present, but less than mass 443	11.45
443	15.00 - 24.00% of mass 442	13.93 ( 18.16)

Data File: 1AE30005.D

Date: 30-MAY-2013 14:51

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A053013.b\1AE30005.D

Spectrum: HP ChemStation MS 1AE30005.D, Scan 420: 4.833 min.

Location of Maximum: 197.90

Number of points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	354	108.10	1085	179.00	2418	244.00	5300
38.00	409	108.90	322	180.00	1010	245.00	667
39.10	2458	109.90	11680	181.00	653	245.80	1204
39.90	337	111.00	1740	183.90	303	246.80	339
41.00	401	116.90	6899	185.00	991	249.10	664
44.00	250	117.90	356	186.00	7679	253.20	292
47.00	335	122.00	433	186.90	2220	255.00	31288
48.00	441	123.10	522	187.80	294	256.00	3872
48.90	1316	124.00	596	189.10	695	256.90	345
50.00	6813	124.70	629	191.10	526	258.00	2279
51.00	23392	127.00	22552	192.00	664	265.00	987
51.90	810	128.00	2059	193.10	1017	273.00	1144
53.10	257	128.90	10737	193.80	285	274.00	2006
55.00	574	129.90	872	196.00	1147	275.00	11324
56.00	549	130.70	289	197.90	45600	276.10	1902
57.00	2114	134.90	1094	198.90	3342	277.10	1418
62.00	267	137.20	599	200.00	378	278.00	281
62.90	642	140.90	1157	201.20	482	285.00	523
64.90	420	141.90	579	201.80	304	296.00	3408
68.90	19736	143.00	573	203.00	408	297.00	630
74.00	1686	146.00	253	204.00	2377	303.10	1075
74.90	3086	146.90	520	205.00	3654	314.00	280
76.20	849	148.00	1171	206.00	14334	315.10	831
77.00	19008	149.00	611	206.90	2702	323.10	1555
78.00	855	151.20	282	208.00	578	327.00	470
78.90	1317	154.10	423	209.80	289	328.20	267
80.00	1819	154.90	591	211.10	564	332.30	263
81.00	1378	156.00	1033	216.00	572	334.10	888
81.90	395	156.90	492	216.80	3443	334.90	359
82.80	255	157.90	279	218.00	554	341.20	455
83.80	760	158.90	494	219.60	258	352.10	451
85.00	306	160.80	594	221.10	1942	353.10	310
86.00	949	162.20	316	222.00	422	354.30	416
90.90	694	163.20	308	222.90	716	365.00	1475
91.90	490	164.90	523	224.00	8558	366.30	251
93.00	2289	165.80	307	225.10	2102	371.90	469
98.00	1948	167.00	2528	227.00	3647	402.70	393
99.00	1024	168.10	843	227.90	536	423.00	1490
99.80	276	169.10	351	229.00	570	424.00	474
101.00	877	172.80	462	230.90	399	441.00	5222

103.20	331	173.10	366	234.00	395	442.00	34984
104.00	983	173.90	712	235.00	563	443.00	6354
104.80	648	175.00	1153	237.00	409	443.90	1468
107.00	7761	176.90	582	242.00	292		

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TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-MAY-2013 10:24  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\c-dftpp198.m  
 Meth Date : 02-May-2013 11:12 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				
7.645	7.669	-0.024	198	167424			50.00-	0.00	100.00
7.645	7.669	-0.024	51	44984			10.00-	80.00	26.87
7.645	7.669	-0.024	68	1129			0.00-	2.00	1.61
7.645	7.669	-0.024	69	70064			0.00-	0.00	41.85
7.645	7.669	-0.024	70	616			0.00-	2.00	0.88
7.645	7.669	-0.024	127	82884			10.00-	80.00	49.51
7.645	7.669	-0.024	197	472			0.00-	2.00	0.28
7.645	7.669	-0.024	442	146592			50.00-	0.00	87.56
7.645	7.669	-0.024	199	11155			5.00-	9.00	6.66
7.645	7.669	-0.024	275	42468			10.00-	60.00	25.37
7.645	7.669	-0.024	365	4440			1.00-	0.00	2.65
7.645	7.669	-0.024	441	23620			0.01-	99.99	89.69
7.645	7.669	-0.024	443	26335			15.00-	24.00	17.96

Data File: 1CE22002.D

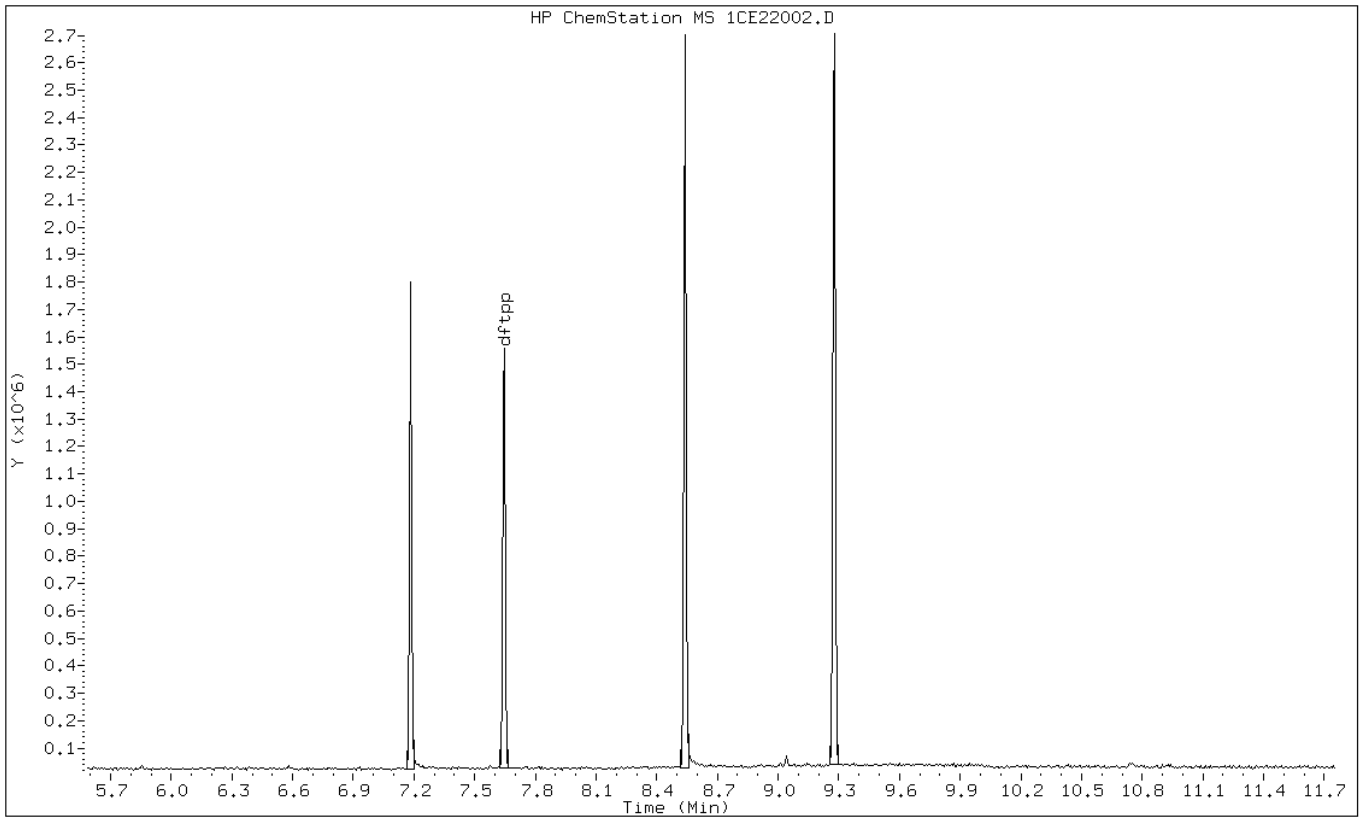
Date: 22-MAY-2013 10:24

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

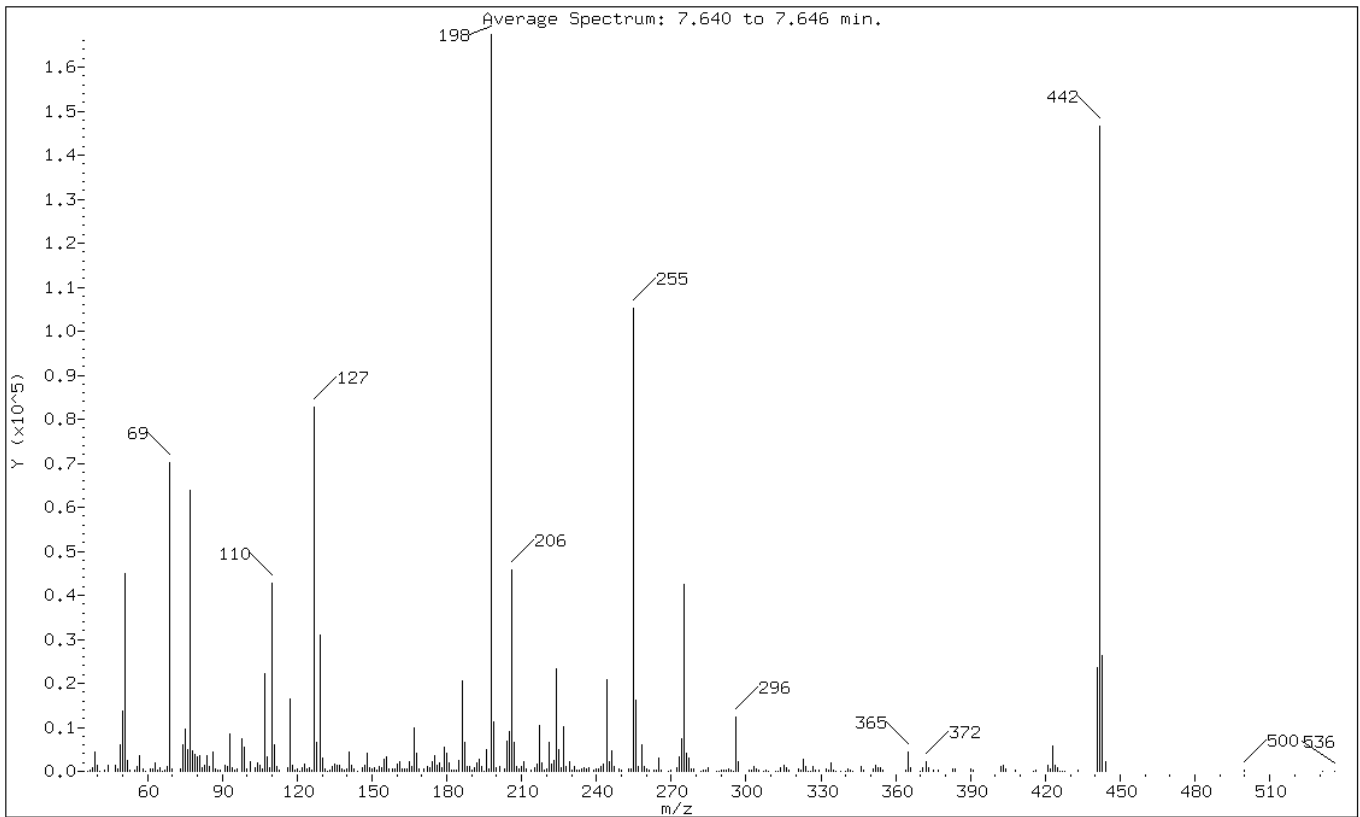
Client ID: DFTPP

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	26.87
68	Less than 2.00% of mass 69	0.67 ( 1.61)
69	Mass 69 relative abundance	41.85
70	Less than 2.00% of mass 69	0.37 ( 0.88)
127	10.00 - 80.00% of mass 198	49.51
197	Less than 2.00% of mass 198	0.28
442	Greater than 50.00% of mass 198	87.56
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	25.37
365	Greater than 1.00% of mass 198	2.65
441	Present, but less than mass 442	14.11
443	15.00 - 24.00% of mass 442	15.73 ( 17.96)



Data File: 1CE22002.D

Date: 22-MAY-2013 10:24

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C052213.b\1CE22002.D

Spectrum: Average Spectrum: 7.640 to 7.646 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	75	126.00	393	207.00	6605	301.00	380
37.00	396	127.00	82880	208.00	1162	302.00	376
38.00	719	128.00	6577	209.00	669	303.00	1097
39.00	4378	129.00	30872	210.00	1181	304.00	637
40.00	1473	130.00	2981	211.00	2206	305.00	342
41.00	114	131.00	437	212.00	530	307.00	79
43.00	174	132.00	132	214.00	245	308.00	199
44.00	1252	133.00	325	215.00	710	309.00	123
47.00	1437	134.00	1203	216.00	1569	312.00	136
48.00	452	135.00	1681	217.00	10494	313.00	85
49.00	6079	136.00	1336	218.00	1851	314.00	777
50.00	13820	137.00	1477	219.00	226	315.00	1253
51.00	44984	138.00	461	220.00	657	316.00	780
52.00	2340	139.00	168	221.00	6686	317.00	370
53.00	192	140.00	413	222.00	1781	321.00	516
55.00	403	141.00	4386	223.00	2470	322.00	257
56.00	1043	142.00	1297	224.00	23312	323.00	2758
57.00	3552	143.00	665	225.00	4963	324.00	1025
58.00	422	144.00	85	226.00	702	325.00	85
59.00	131	146.00	705	227.00	10024	326.00	125
61.00	561	147.00	1240	228.00	1137	327.00	1069
62.00	681	148.00	4136	229.00	2177	328.00	289
63.00	1840	149.00	844	230.00	219	329.00	227
64.00	304	150.00	489	231.00	1142	332.00	630
65.00	836	151.00	750	232.00	188	333.00	403
66.00	106	152.00	217	233.00	381	334.00	1854
67.00	213	153.00	1121	234.00	484	335.00	183
68.00	1129	154.00	817	235.00	929	336.00	134
69.00	70064	155.00	2696	236.00	618	338.00	114
70.00	616	156.00	3398	237.00	862	340.00	101
73.00	676	157.00	466	239.00	292	341.00	440
74.00	5926	158.00	586	240.00	524	342.00	223
75.00	9677	159.00	492	241.00	591	343.00	116
76.00	4823	160.00	1675	242.00	1095	346.00	1228
77.00	63808	161.00	2069	243.00	1560	347.00	386
78.00	4538	162.00	598	244.00	20856	351.00	453
79.00	3939	163.00	451	245.00	2099	352.00	1295
80.00	3344	164.00	474	246.00	4563	353.00	878
81.00	3657	165.00	2092	247.00	1035	354.00	778
82.00	832	166.00	1212	249.00	443	355.00	278

83.00	1382	167.00	9811	250.00	265	364.00	181
84.00	3471	168.00	4152	253.00	480	365.00	4440
85.00	1143	169.00	642	254.00	420	366.00	867
86.00	4504	171.00	542	255.00	105248	370.00	122
87.00	435	172.00	1124	256.00	16038	371.00	896
88.00	304	173.00	931	257.00	1209	372.00	2247
89.00	158	174.00	2310	258.00	6097	373.00	712
91.00	1340	175.00	3588	259.00	1063	375.00	159
92.00	1173	176.00	1243	260.00	641	377.00	196
93.00	8603	177.00	2037	261.00	219	383.00	625
94.00	795	178.00	771	263.00	285	384.00	629
95.00	168	179.00	5366	264.00	155	390.00	598
96.00	472	180.00	4120	265.00	2894	391.00	308
98.00	7464	181.00	1914	266.00	303	402.00	1094
99.00	5409	182.00	311	269.00	114	403.00	1503
100.00	430	183.00	282	270.00	179	404.00	678
101.00	2086	184.00	357	272.00	721	408.00	173
103.00	932	185.00	2430	273.00	3287	415.00	107
104.00	1995	186.00	20656	274.00	7399	416.00	325
105.00	1494	187.00	6442	275.00	42464	421.00	1302
106.00	657	188.00	1022	276.00	4079	422.00	469
107.00	22184	189.00	1106	277.00	3072	423.00	5654
108.00	3320	190.00	211	278.00	475	424.00	1440
109.00	718	191.00	821	279.00	478	425.00	768
110.00	42776	192.00	1902	282.00	81	426.00	103
111.00	6070	193.00	2686	283.00	330	427.00	133
112.00	1110	194.00	981	284.00	301	428.00	129
113.00	176	195.00	124	285.00	751	433.00	276
116.00	911	196.00	4948	288.00	79	441.00	23616
117.00	16448	197.00	472	289.00	98	442.00	146560
118.00	1346	198.00	167424	290.00	260	443.00	26328
119.00	365	199.00	11155	291.00	144	444.00	2240
120.00	505	200.00	725	292.00	185	500.00	141
121.00	127	201.00	1208	293.00	539	531.00	80
122.00	896	203.00	671	294.00	169	536.00	109
123.00	1534	204.00	6791	295.00	85		
124.00	533	205.00	8931	296.00	12373		
125.00	886	206.00	45888	297.00	2115		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 05-JUN-2013 11:08  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\c-dftpp198.m  
 Meth Date : 02-May-2013 11:12 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				
7.622	7.669	-0.047	198	275392			50.00-	0.00	100.00
7.622	7.669	-0.047	51	86888			10.00-	80.00	31.55
7.622	7.669	-0.047	68	1497			0.00-	2.00	1.25
7.622	7.669	-0.047	69	119824			0.00-	0.00	43.51
7.622	7.669	-0.047	70	211			0.00-	2.00	0.18
7.622	7.669	-0.047	127	132544			10.00-	80.00	48.13
7.622	7.669	-0.047	197	1882			0.00-	2.00	0.68
7.622	7.669	-0.047	442	243840			50.00-	0.00	88.54
7.622	7.669	-0.047	199	16277			5.00-	9.00	5.91
7.622	7.669	-0.047	275	69016			10.00-	60.00	25.06
7.622	7.669	-0.047	365	6480			1.00-	0.00	2.35
7.622	7.669	-0.047	441	34456			0.01-	99.99	75.35
7.622	7.669	-0.047	443	45728			15.00-	24.00	18.75

Data File: 1CF05002.D

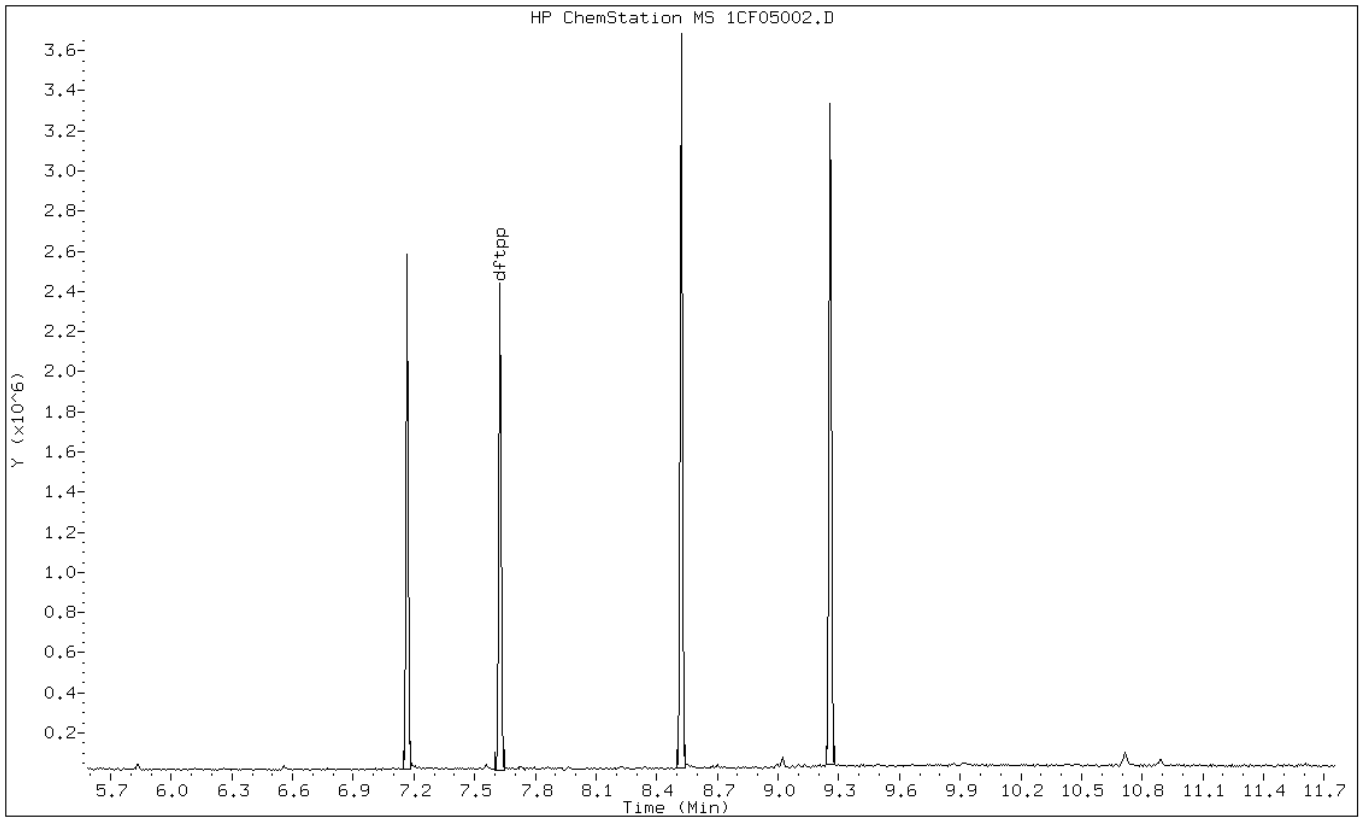
Date: 05-JUN-2013 11:08

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

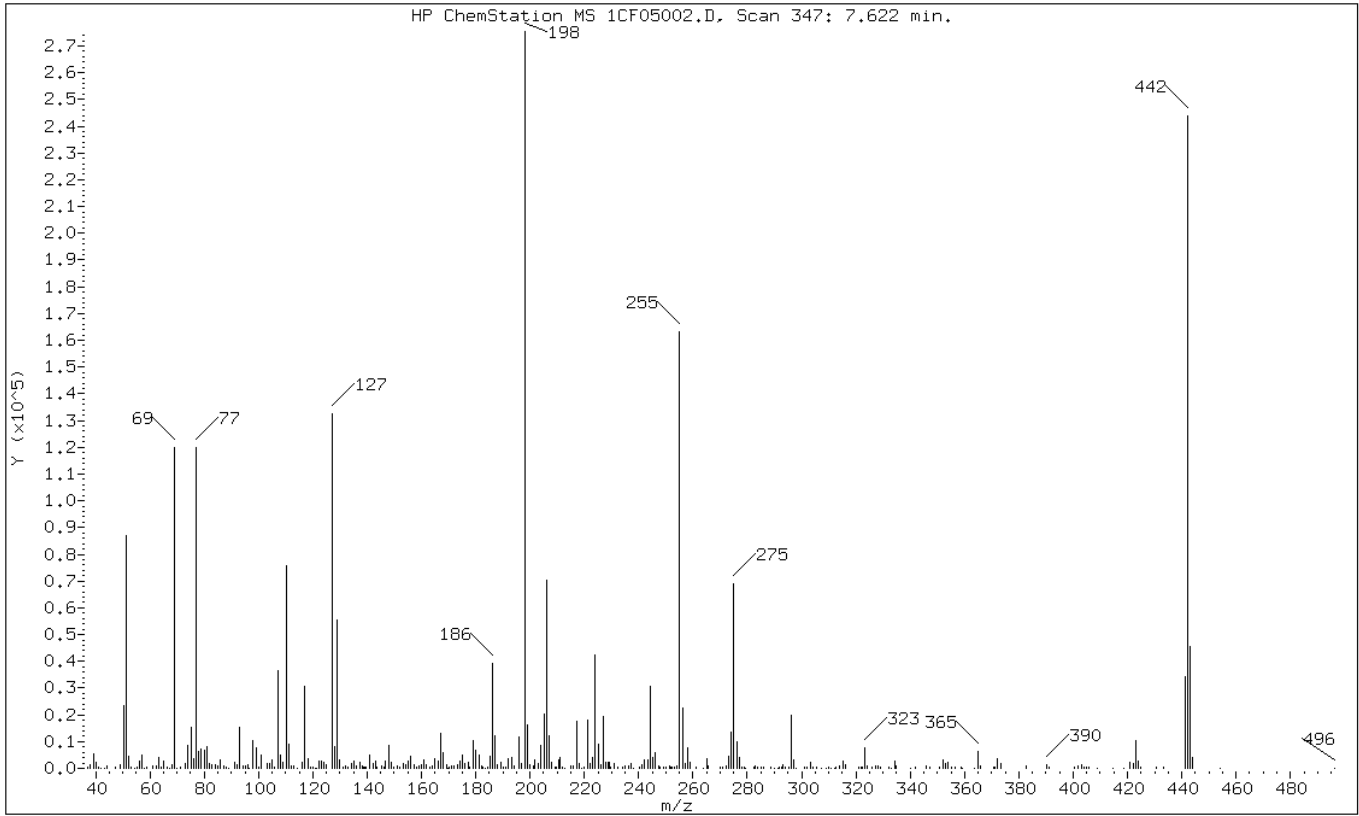
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.55
68	Less than 2.00% of mass 69	0.54 ( 1.25)
69	Mass 69 relative abundance	43.51
70	Less than 2.00% of mass 69	0.08 ( 0.18)
127	10.00 - 80.00% of mass 198	48.13
197	Less than 2.00% of mass 198	0.68
442	Greater than 50.00% of mass 198	88.54
199	5.00 - 9.00% of mass 198	5.91
275	10.00 - 60.00% of mass 198	25.06
365	Greater than 1.00% of mass 198	2.35
441	Present, but less than mass 443	12.51
443	15.00 - 24.00% of mass 442	16.60 ( 18.75)

Data File: 1CF05002.D

Date: 05-JUN-2013 11:08

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05002.D

Spectrum: HP ChemStation MS 1CF05002.D, Scan 347: 7.622 min.

Location of Maximum: 198.10

Number of points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	454	125.10	1382	204.10	8724	292.70	409
38.00	1270	127.10	132544	205.10	20472	293.10	1408
39.10	5224	128.10	8140	206.10	70504	293.80	273
40.00	2290	129.10	55256	207.20	12000	295.10	596
40.90	318	130.00	3365	208.10	2103	296.10	19840
42.10	190	131.20	605	209.10	426	296.90	3010
43.40	182	132.10	845	209.90	534	298.10	221
44.10	1044	132.80	316	210.60	3091	301.10	665
47.20	440	134.10	1698	211.10	3843	302.00	475
49.20	1487	135.00	2534	212.10	363	303.10	2129
50.20	23552	135.90	891	213.00	203	304.10	611
51.20	86888	136.20	889	215.00	1033	305.30	442
52.20	4480	137.20	2240	216.00	1121	307.50	157
53.10	459	138.10	913	217.10	17432	309.10	187
54.20	151	138.60	590	218.10	1866	309.80	313
55.10	569	139.10	451	219.20	188	310.90	186
56.10	2647	139.80	276	219.80	393	312.30	201
57.10	5030	141.10	5153	221.10	17880	312.80	650
57.90	171	142.20	1698	222.30	1687	314.00	1011
59.00	318	143.00	2532	223.10	3842	315.10	2737
61.10	704	143.80	331	224.10	42280	316.00	1253
62.20	1012	145.20	683	225.10	9093	321.10	642
63.20	4090	146.10	500	226.20	1344	321.80	387
64.10	668	146.90	2646	227.10	19352	322.20	257
65.00	2577	148.10	8694	228.00	2242	323.10	7549
66.20	529	149.10	2119	228.90	2088	324.10	1021
67.40	150	149.90	476	229.10	2083	326.10	296
68.00	1497	151.10	950	229.70	577	327.10	985
69.10	119824	152.10	535	231.10	1824	328.10	940
70.10	211	153.20	1655	232.10	273	329.10	400
71.10	442	154.20	1347	234.00	610	332.20	457
73.10	1854	155.10	2602	235.00	947	333.10	200
74.10	8466	156.10	4562	236.10	702	334.20	2858
75.10	15262	157.30	1243	237.00	2023	335.00	691
76.20	3798	158.10	509	238.00	223	340.20	190
77.20	119936	159.00	1070	240.10	521	341.90	541
78.10	6316	160.00	1282	241.00	1154	346.00	793
79.00	7102	161.10	3016	242.20	2993	347.20	288
80.10	6562	161.90	1283	243.20	3084	350.90	414
81.10	8306	163.10	553	244.20	30864	352.10	3108

82.10	1987	164.00	1115	245.20	4001	353.00	1618
83.00	1345	165.00	3439	246.00	5934	354.10	2246
84.00	1283	166.20	2705	247.20	773	355.00	397
85.10	1079	167.10	12928	247.90	511	356.40	237
86.10	2978	168.10	5904	249.10	548	358.60	246
87.20	917	169.10	1240	250.00	323	359.30	193
88.20	465	169.70	189	251.20	930	363.80	200
89.00	210	170.20	271	251.90	387	365.00	6480
91.10	2208	171.10	1103	252.40	335	366.00	1110
92.00	1489	172.00	1026	253.20	550	370.70	551
93.10	15362	173.10	1128	253.90	1094	371.20	423
94.20	1125	174.00	2928	255.10	163200	372.10	3442
95.30	895	175.10	4813	256.10	22584	373.20	1917
96.00	1147	176.10	2018	257.20	1761	382.90	1048
96.70	217	177.10	2181	258.10	7468	390.10	1403
98.10	10381	177.90	536	259.10	2064	391.30	376
99.10	7602	179.10	10287	261.00	444	400.40	264
100.10	378	180.10	6638	264.00	171	402.00	923
101.10	4781	181.10	4996	265.00	3529	403.00	1168
103.00	1914	182.10	971	265.80	855	403.90	306
104.10	1712	182.80	337	270.10	291	405.10	445
105.10	3284	183.60	221	271.10	292	406.00	289
106.00	571	184.40	451	272.10	971	408.90	171
107.10	36624	185.10	4667	273.10	4463	414.80	213
108.10	4800	186.10	39240	274.10	13517	418.80	168
109.10	2090	187.10	12075	275.10	69016	421.00	2167
110.10	75616	188.10	1156	276.20	10082	422.20	1633
111.10	9041	189.10	2301	277.10	4201	423.10	10250
112.20	1105	190.00	569	278.00	434	424.00	2586
113.10	686	191.00	662	278.90	306	425.00	472
114.40	166	192.10	3743	279.20	206	430.50	540
116.10	2144	193.10	4109	282.30	327	433.40	251
117.10	30584	194.20	1064	283.10	811	441.10	34456
118.10	3574	196.10	11577	284.00	593	442.10	243840
119.10	353	196.90	1882	284.90	649	443.10	45728
120.10	303	198.10	275392	285.30	397	444.10	4275
120.90	196	199.10	16277	286.10	326	454.00	159
121.30	151	200.10	1213	288.80	329	496.30	194
122.10	2587	201.10	786	290.00	187		
123.10	2859	201.60	3074	291.20	175		
124.00	2243	202.90	1808	291.80	440		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 23-MAY-2013 11:20  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\d-dftpp198.m  
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.587	8.532	0.055	198	121784			50.00-	0.00	100.00
8.587	8.532	0.055	51	67440			10.00-	80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	69	65104			0.00-	0.00	53.46
8.587	8.532	0.055	70	565			0.00-	2.00	0.87
8.587	8.532	0.055	127	68776			10.00-	80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	442	65752			50.00-	0.00	53.99
8.587	8.532	0.055	199	8068			5.00-	9.00	6.62
8.587	8.532	0.055	275	31712			10.00-	60.00	26.04
8.587	8.532	0.055	365	4846			1.00-	0.00	3.98
8.587	8.532	0.055	441	9492			0.01-	99.99	78.47
8.587	8.532	0.055	443	12096			15.00-	24.00	18.40



Data File: 1DE23002.D

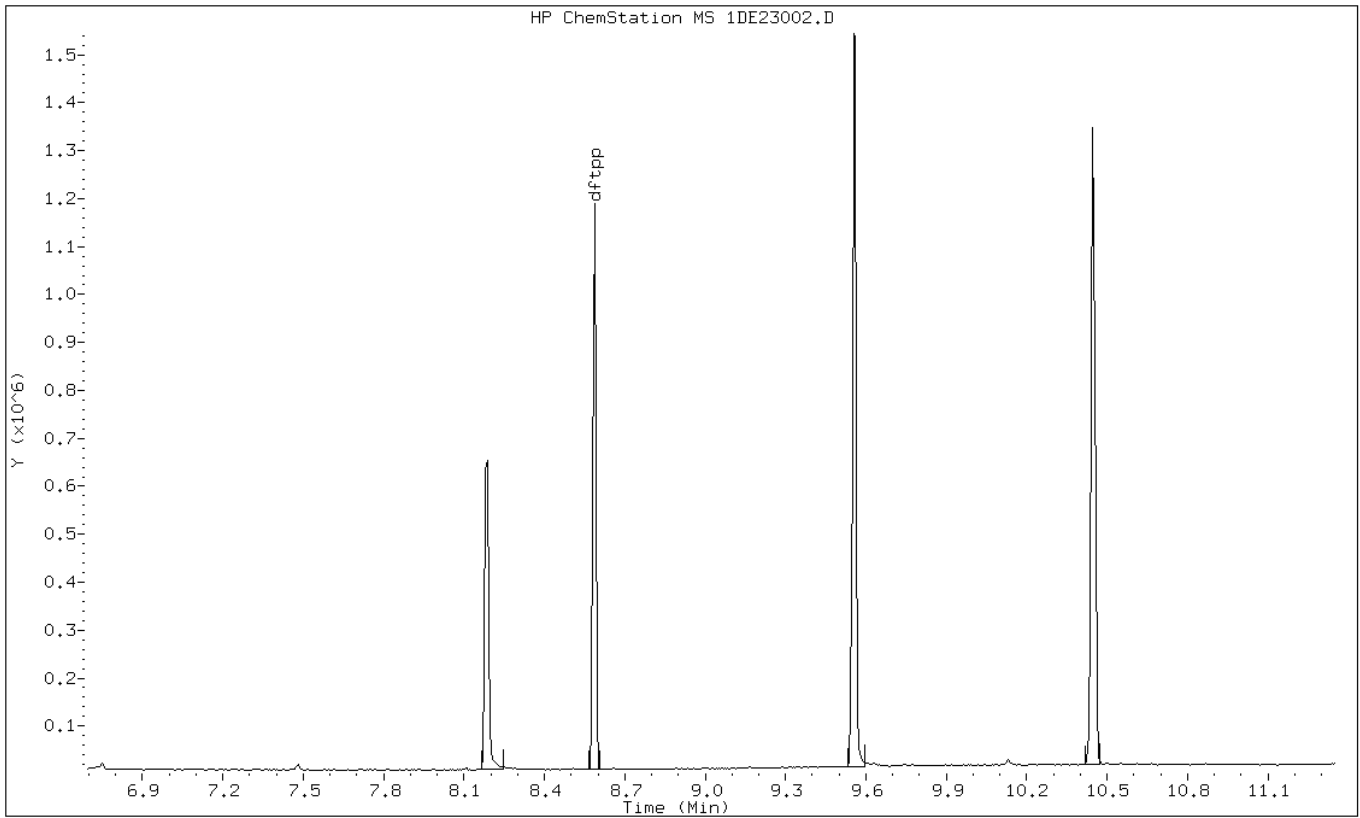
Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

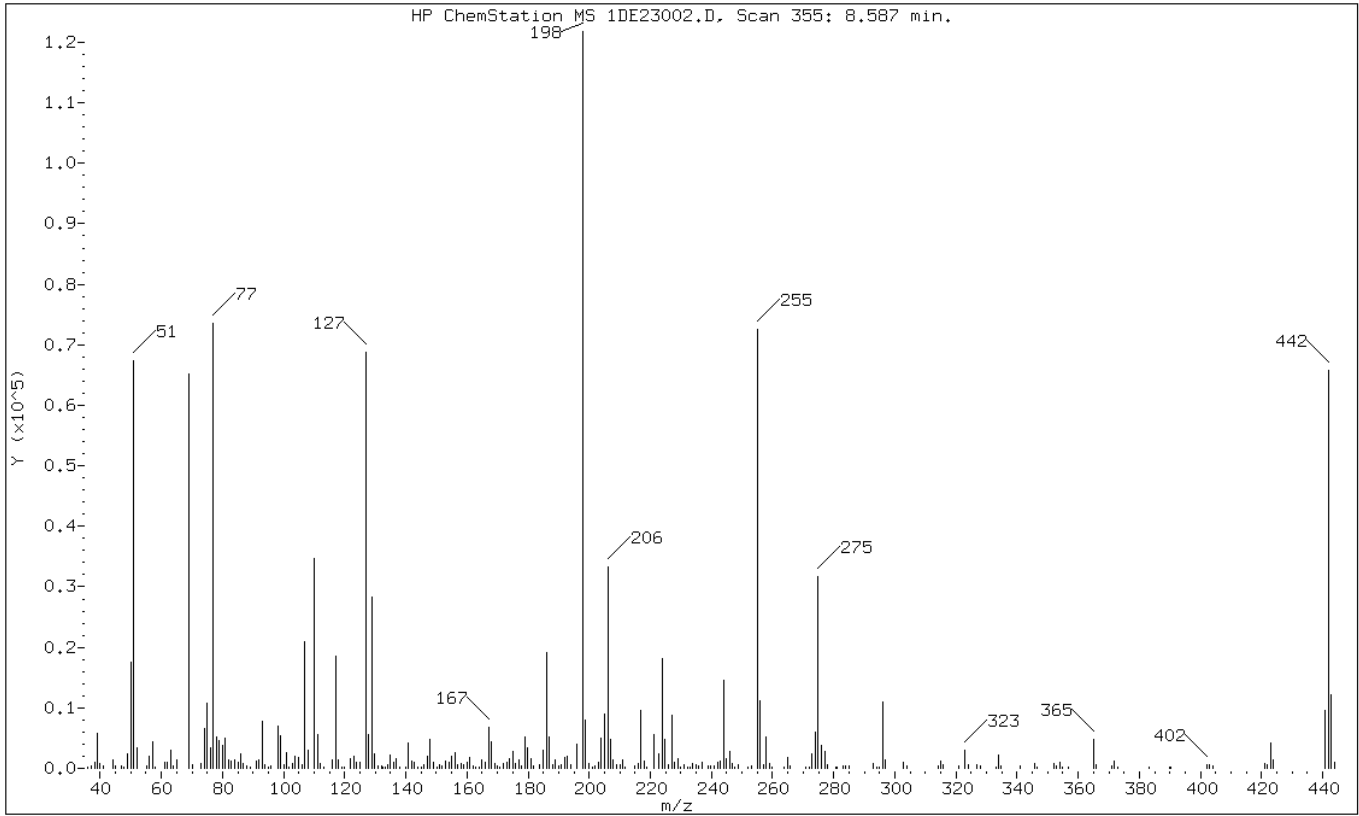
Client ID: DFTPP

Instrument: BSMSD.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	55.38
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 ( 0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 ( 18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313\_pahIC.b\1DE23002.D

Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.

Location of Maximum: 197.90

Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322
-----							
93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192
-----							
100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877
-----							
105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752
-----							
111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		
-----							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 05-JUN-2013 11:38  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\d-dftpp198.m  
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET	RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
8.570	8.532	0.038	198	159360		50.00-	0.00	100.00	
8.570	8.532	0.038	51	49288		10.00-	80.00	30.93	
8.570	8.532	0.038	68	0	0.0	0.00-	2.00	0.00	
8.570	8.532	0.038	69	54176		0.00-	0.00	34.00	
8.570	8.532	0.038	70	373		0.00-	2.00	0.69	
8.570	8.532	0.038	127	72328		10.00-	80.00	45.39	
8.570	8.532	0.038	197	0	0.0	0.00-	2.00	0.00	
8.570	8.532	0.038	442	142016		50.00-	0.00	89.12	
8.570	8.532	0.038	199	9993		5.00-	9.00	6.27	
8.570	8.532	0.038	275	47888		10.00-	60.00	30.05	
8.570	8.532	0.038	365	7139		1.00-	0.00	4.48	
8.570	8.532	0.038	441	21488		0.01-	99.99	80.47	
8.570	8.532	0.038	443	26704		15.00-	24.00	18.80	

Data File: 1DF05002.D

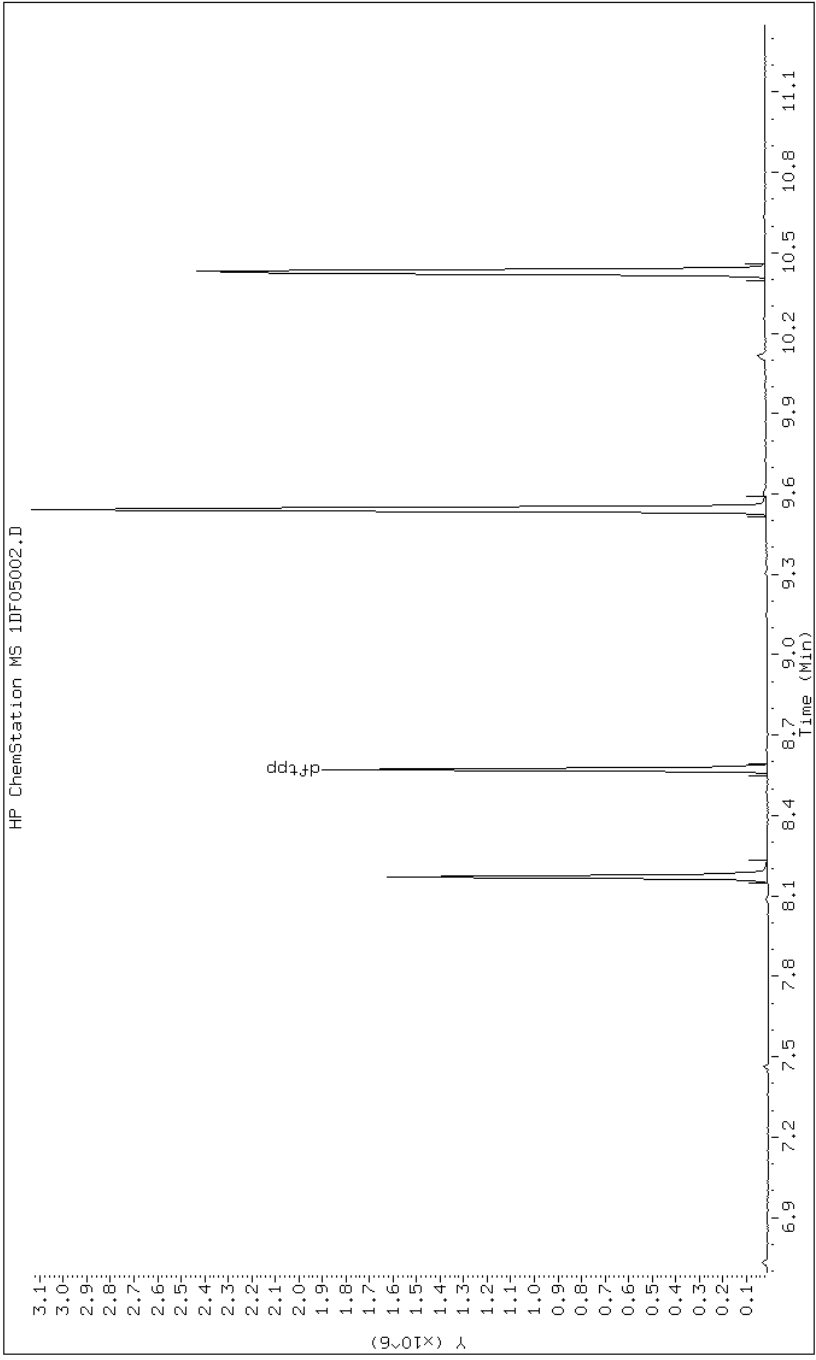
Date: 05-JUN-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

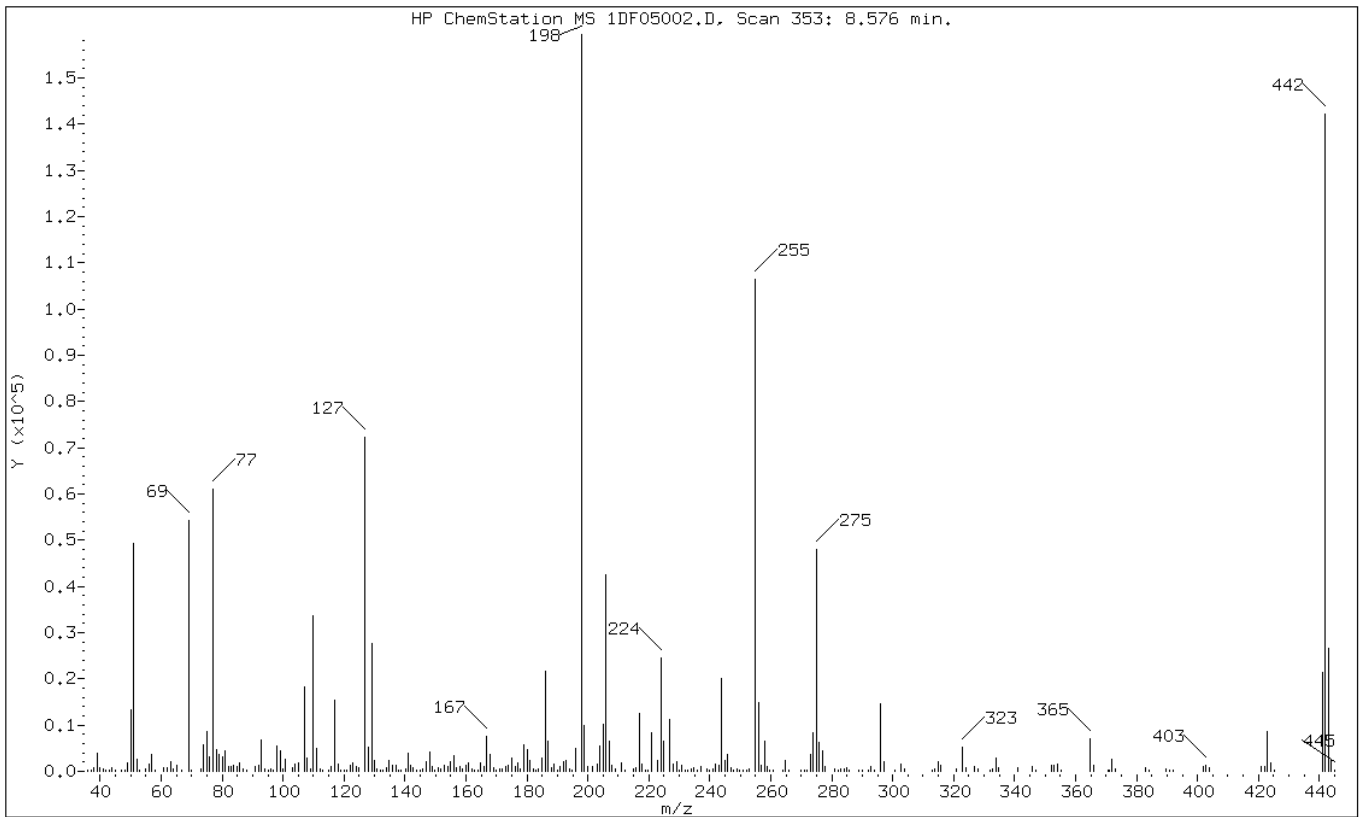
Client ID: DFTPP

Instrument: BSMSD.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	30.93
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	34.00
70	Less than 2.00% of mass 69	0.23 ( 0.69)
127	10.00 - 80.00% of mass 198	45.39
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	89.12
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 60.00% of mass 198	30.05
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	13.48
443	15.00 - 24.00% of mass 442	16.76 ( 18.80)

Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D

Spectrum: HP ChemStation MS 1DF05002.D, Scan 353: 8.576 min.

Location of Maximum: 197.90

Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	270	118.00	1436	188.00	770	271.10	340
37.00	282	118.90	241	188.90	1626	271.90	354
38.00	724	120.10	259	190.10	298	272.90	3711
39.00	3859	120.90	151	190.90	997	274.00	8412
40.00	753	121.90	1357	191.90	2151	274.90	47888
41.10	466	122.90	1929	192.90	2273	275.90	6382
41.90	203	124.00	928	193.90	552	277.00	4492
43.00	298	125.00	682	194.90	322	277.90	928
44.00	702	127.00	72328	195.90	4897	280.90	401
45.00	218	128.00	5161	197.90	159360	282.00	183
47.00	294	129.00	27632	198.90	9993	283.00	537
48.20	223	129.90	2252	199.90	961	284.00	434
49.00	1767	130.90	493	201.40	1036	284.90	810
50.00	13235	131.90	313	202.90	1510	285.80	171
51.00	49288	132.80	227	203.90	5538	288.90	338
52.00	2619	133.90	881	204.90	10124	290.00	225
52.90	225	134.90	2342	206.00	42504	292.00	213
55.00	449	136.00	1178	207.00	6478	292.90	1083
55.90	1516	137.00	1307	208.00	1412	294.00	375
57.00	3532	137.90	347	208.90	594	295.90	14641
58.00	162	138.80	237	211.00	1872	297.00	2166
60.90	750	140.10	410	212.20	188	300.90	297
62.00	660	141.00	3917	214.90	509	302.90	1616
63.00	2109	141.90	1206	215.80	840	303.90	576
63.90	433	142.80	882	216.90	12452	313.00	158
65.00	1389	144.00	267	217.90	1483	313.90	615
66.90	347	144.90	269	218.80	241	314.90	1969
69.00	54176	145.90	556	219.70	207	315.90	1210
69.90	373	147.00	2157	220.90	8454	320.90	509
73.00	644	148.00	4281	222.90	2423	323.00	5109
74.00	5657	148.90	950	224.00	24640	324.00	812
75.00	8664	149.90	315	225.00	6531	326.90	1022
76.00	3220	150.90	661	226.90	11208	327.90	626
77.00	61040	151.80	490	227.90	1598	331.90	237
78.00	4719	152.90	1398	229.00	2156	332.90	612
79.00	3672	154.00	923	229.90	286	333.90	2850
80.00	3062	154.90	2163	230.90	1223	334.90	698
81.00	4525	156.00	3280	232.00	212	341.00	693
82.00	1085	156.90	670	232.80	238	345.90	1161
83.00	1161	157.90	915	233.90	612	346.80	257



83.90	1175	158.90	543	234.80	688	352.00	1423
85.00	956	159.90	1203	235.80	381	352.90	1228
85.90	1881	160.90	1814	236.90	976	354.00	1513
87.00	635	162.00	608	238.90	405	355.10	265
88.00	292	162.90	205	239.90	274	364.90	7139
+-----+							
90.90	1155	164.10	161	241.00	650	365.80	1250
92.00	1228	164.90	1870	242.00	1462	370.70	277
92.90	6834	166.00	1036	243.00	1206	371.00	340
94.10	568	166.90	7525	244.00	20128	371.90	2685
95.00	260	168.00	3730	245.00	2241	373.00	607
+-----+							
95.90	473	169.10	669	245.90	3694	383.00	740
96.80	169	170.00	291	246.90	855	384.00	313
98.00	5520	170.90	485	247.80	209	389.80	444
99.00	4554	172.00	633	248.90	647	391.00	377
99.90	515	172.90	998	249.80	253	391.90	171
+-----+							
100.90	2513	174.00	1382	250.90	183	401.90	1050
102.90	863	175.00	2783	252.00	247	402.90	1354
103.90	1519	176.10	1015	252.90	439	403.80	675
105.00	1733	176.90	1743	254.90	106472	420.90	1020
107.00	18160	177.90	545	255.90	14796	421.90	960
+-----+							
107.90	2860	178.90	5788	257.00	1336	422.90	8505
108.90	621	180.00	4596	257.90	6489	423.90	1712
109.90	33768	180.90	2249	258.90	1016	425.10	188
110.90	5068	182.00	491	259.70	152	441.00	21488
112.00	630	182.90	204	261.00	191	441.90	142016
+-----+							
113.00	239	183.90	486	263.90	235	442.90	26704
114.90	164	185.00	2771	264.90	2404	443.90	2324
115.90	916	186.00	21736	265.90	319	445.00	191
116.90	15474	187.00	6574	269.90	179		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 06-JUN-2013 12:05  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1562005  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\d-dftpp198.m  
 Meth Date : 08-Jan-2013 16:28 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET	RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
8.567	8.532	0.035	198	24016		50.00-	0.00	100.00	
8.567	8.532	0.035	51	8871		10.00-	80.00	36.94	
8.567	8.532	0.035	68	0	0.0	0.0	0.00-	2.00	0.00
8.567	8.532	0.035	69	9625		0.00-	0.00	40.08	
8.567	8.532	0.035	70	0	0.0	0.0	0.00-	2.00	0.00
8.567	8.532	0.035	127	10891		10.00-	80.00	45.35	
8.567	8.532	0.035	197	189		0.00-	2.00	0.79	
8.567	8.532	0.035	442	18472		50.00-	0.00	76.92	
8.567	8.532	0.035	199	1466		5.00-	9.00	6.10	
8.567	8.532	0.035	275	7466		10.00-	60.00	31.09	
8.567	8.532	0.035	365	1161		1.00-	0.00	4.83	
8.567	8.532	0.035	441	2903		0.01-	99.99	76.31	
8.567	8.532	0.035	443	3804		15.00-	24.00	20.59	

Data File: 1DF06002.D

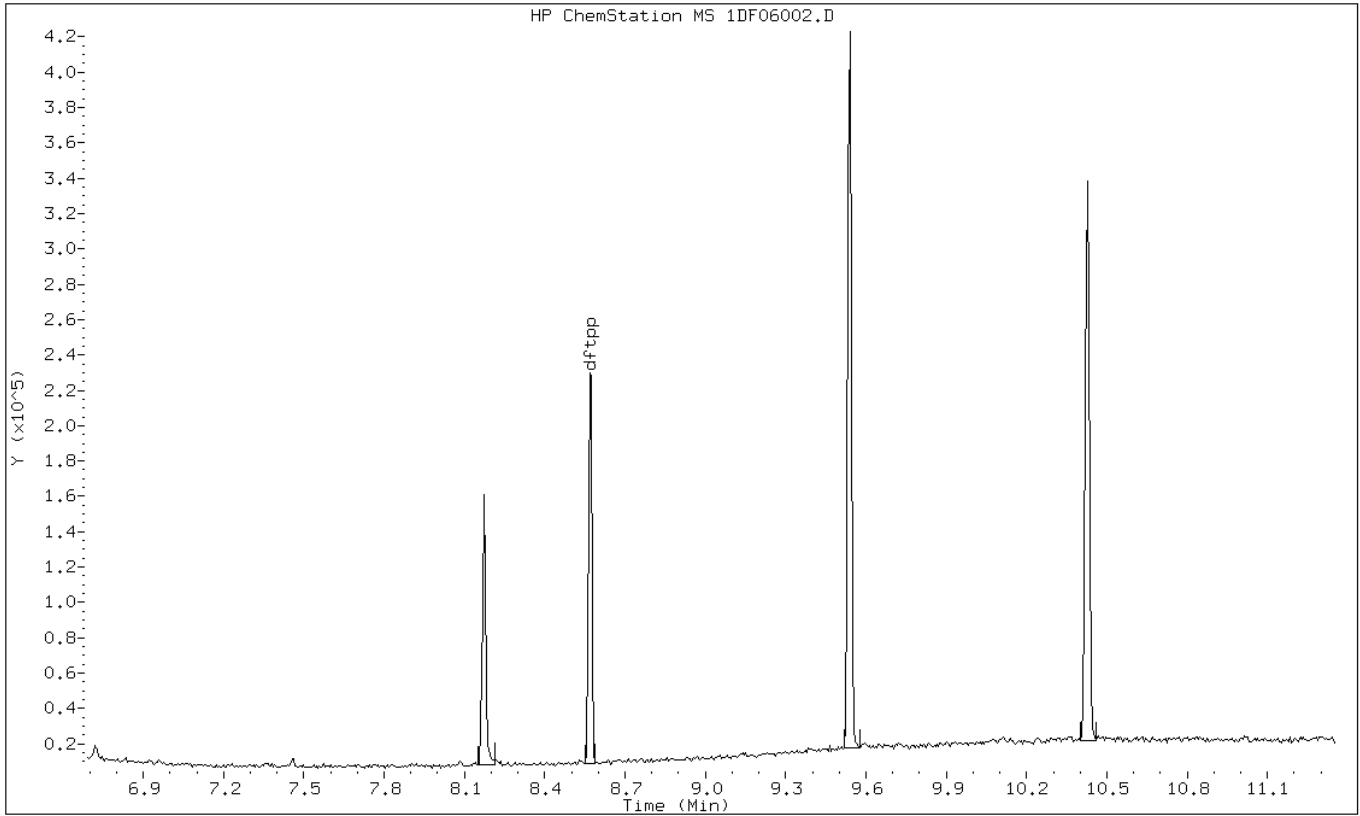
Date: 06-JUN-2013 12:05

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

Operator: SCC



Data File: 1DF06002.D

Date: 06-JUN-2013 12:05

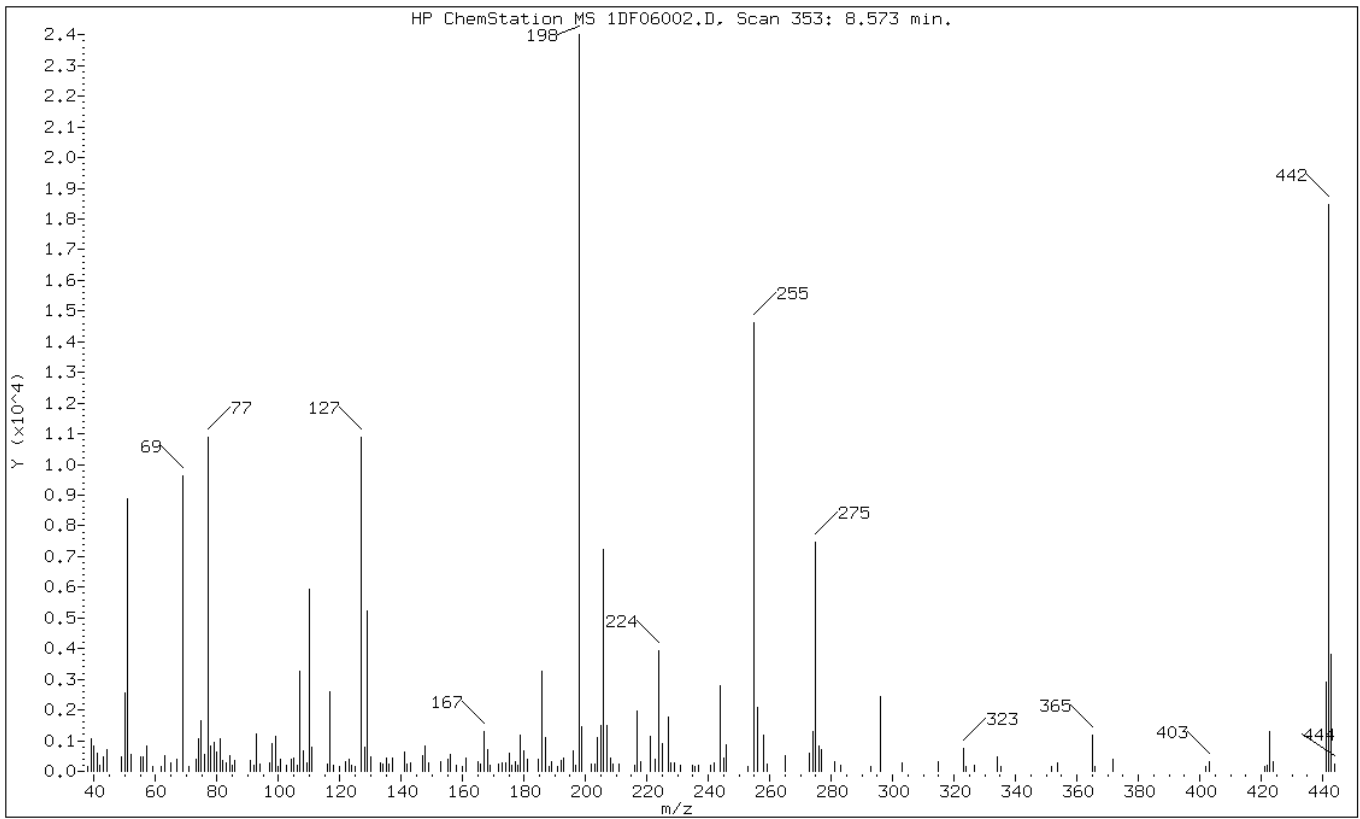
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

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	36.94
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	40.08
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	45.35
197	Less than 2.00% of mass 198	0.79
442	Greater than 50.00% of mass 198	76.92
199	5.00 - 9.00% of mass 198	6.10
275	10.00 - 60.00% of mass 198	31.09
365	Greater than 1.00% of mass 198	4.83
441	Present, but less than mass 443	12.09
443	15.00 - 24.00% of mass 442	15.84 ( 20.59)

Data File: 1DF06002.D

Date: 06-JUN-2013 12:05

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1562005

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060613.b\1DF06002.D

Spectrum: HP ChemStation MS 1DF06002.D, Scan 353: 8.573 min.

Location of Maximum: 197.90

Number of points: 174

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.90	160	102.80	212	173.00	288	240.90	181
39.00	1052	104.00	395	173.90	286	241.90	267
40.00	844	104.90	436	175.00	574	244.00	2795
41.10	604	106.10	179	175.90	216	245.00	438
42.00	206	107.00	3281	177.00	326	245.90	847
43.10	458	108.00	675	177.90	209	252.90	153
44.00	699	109.10	260	178.90	1182	254.90	14621
48.90	470	109.90	5943	179.90	649	255.90	2101
50.00	2560	111.00	799	180.90	379	257.90	1169
51.00	8871	116.00	241	184.80	397	259.00	222
51.90	537	116.90	2589	185.90	3260	264.90	511
55.10	473	117.80	193	186.90	1096	272.90	591
55.90	471	120.00	164	188.10	173	273.90	1279
57.00	831	122.00	317	188.90	332	274.90	7466
59.00	165	122.90	399	190.90	159	275.90	814
62.00	164	123.90	216	191.90	348	276.90	706
62.90	503	124.80	155	193.00	432	281.10	298
65.00	276	127.00	10891	196.00	654	282.90	196
67.00	379	128.00	777	196.90	189	293.00	157
68.90	9625	128.90	5227	197.90	24016	296.00	2422
71.00	160	130.00	479	198.90	1466	303.00	290
73.10	378	133.20	264	201.80	240	314.90	299
74.00	1051	134.00	239	202.90	250	323.00	729
74.90	1643	135.00	446	203.90	1091	323.80	171
75.90	532	136.00	241	204.90	1491	326.80	180
77.00	10871	137.00	439	205.90	7213	334.00	460
78.00	830	140.90	646	206.90	1499	335.10	159
79.10	937	141.80	243	208.00	415	351.90	154
79.90	629	142.90	262	208.90	243	353.80	267
80.90	1051	147.00	519	210.90	236	364.90	1161
82.00	335	147.90	840	215.80	180	365.90	167
83.00	280	148.90	271	216.90	1970	371.80	397
84.00	500	153.00	317	218.00	301	401.90	153
84.80	205	155.00	393	220.90	1139	403.00	326
85.90	360	155.90	563	222.80	398	421.10	155
91.00	356	157.90	200	223.90	3937	421.80	184
92.00	203	159.90	170	224.90	922	422.90	1278
93.00	1207	160.90	452	226.90	1769	423.90	314
94.00	247	165.00	320	227.90	263	441.00	2903
97.00	272	165.90	240	229.00	260	441.90	18472

97.90	915	166.80	1304	230.90	187	442.90	3804
98.90	1154	168.00	726	234.70	182	443.90	250
99.90	154	169.00	196	235.80	157		
100.80	379	171.80	222	236.90	200		

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TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 09-JUN-2013 09:45  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1525850  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\d-dftpp198.m  
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.563	8.532	0.031	198	199552			50.00-	0.00	100.00
8.563	8.532	0.031	51	80480			10.00-	80.00	40.33
8.563	8.532	0.031	68	0	0.0	0.0	0.00-	2.00	0.00
8.563	8.532	0.031	69	84736			0.00-	0.00	42.46
8.563	8.532	0.031	70	586			0.00-	2.00	0.69
8.563	8.532	0.031	127	97632			10.00-	80.00	48.93
8.563	8.532	0.031	197	0	0.0	0.0	0.00-	2.00	0.00
8.563	8.532	0.031	442	108712			50.00-	0.00	54.48
8.563	8.532	0.031	199	13716			5.00-	9.00	6.87
8.563	8.532	0.031	275	51296			10.00-	60.00	25.71
8.563	8.532	0.031	365	6656			1.00-	0.00	3.34
8.563	8.532	0.031	441	16100			0.01-	99.99	70.29
8.563	8.532	0.031	443	22904			15.00-	24.00	21.07

Data File: 1DF09002.D

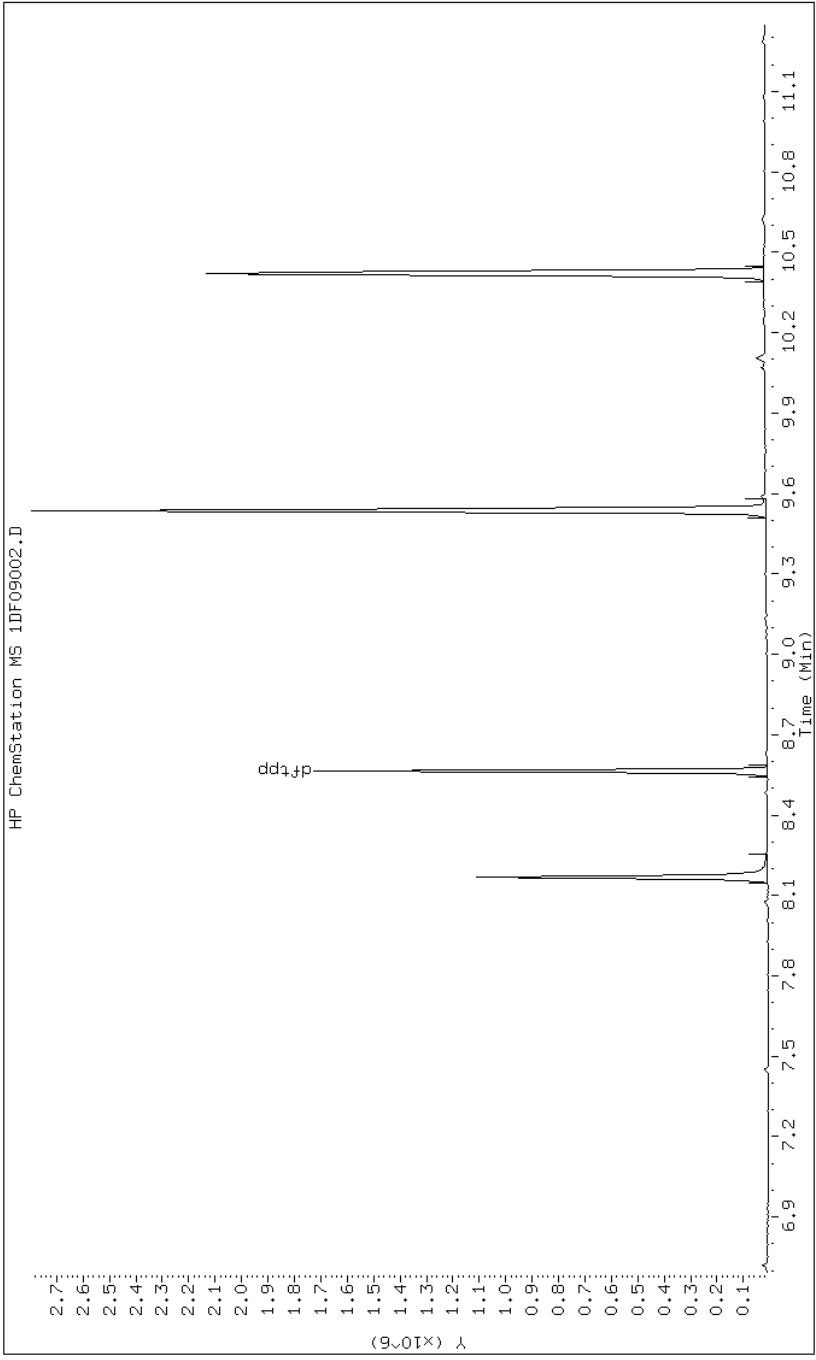
Date: 09-JUN-2013 09:45

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC





Data File: 1DF09002.D

Date: 09-JUN-2013 09:45

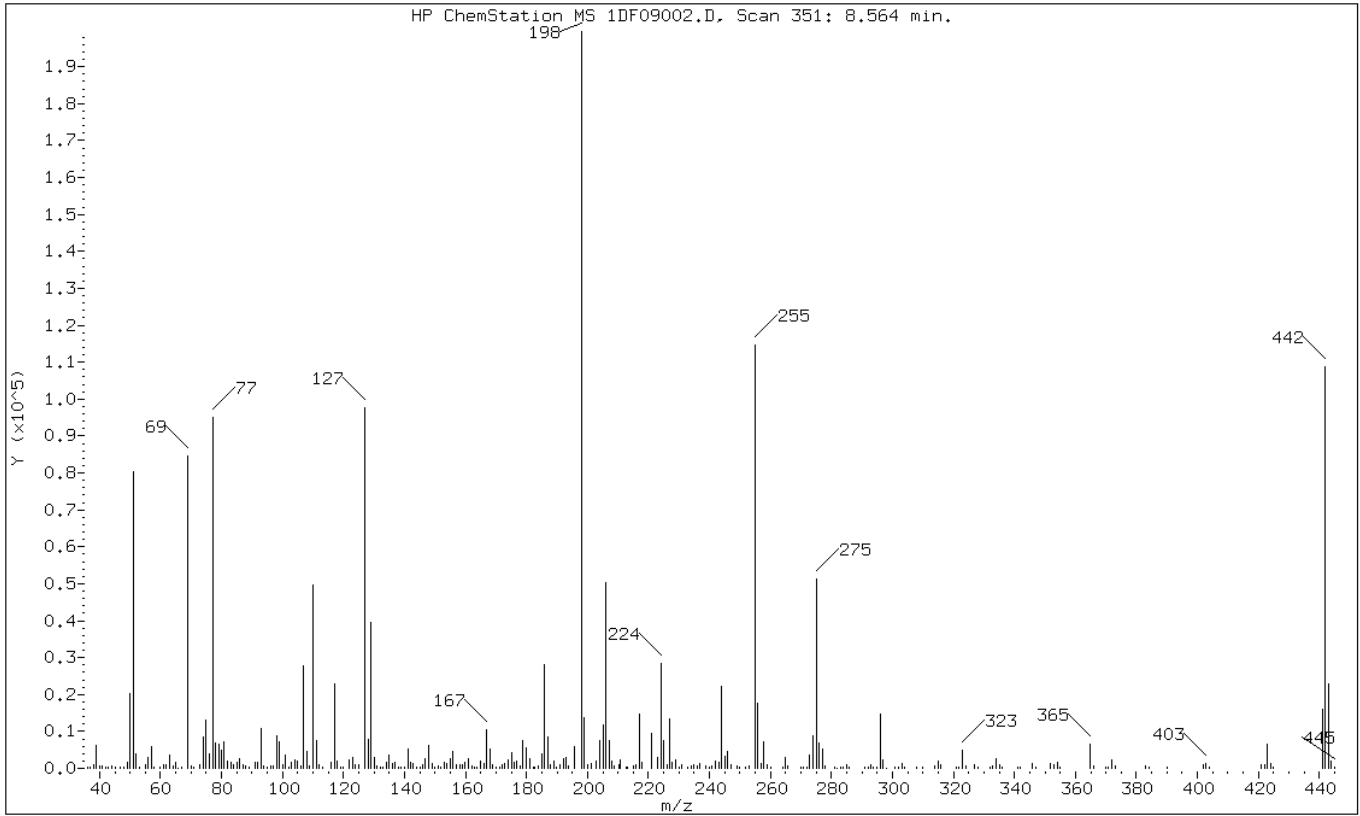
Client ID: DFTPP

Instrument: BSMSD.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	40.33
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	42.46
70	Less than 2.00% of mass 69	0.29 ( 0.69)
127	10.00 - 80.00% of mass 198	48.93
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	54.48
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	25.71
365	Greater than 1.00% of mass 198	3.34
441	Present, but less than mass 443	8.07
443	15.00 - 24.00% of mass 442	11.48 ( 21.07)

Data File: 1DF09002.D

Date: 09-JUN-2013 09:45

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09002.D

Spectrum: HP ChemStation MS 1DF09002.D, Scan 351: 8.564 min.

Location of Maximum: 197.90

Number of points: 279

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	229	112.00	1037	186.00	28128	273.90	8947
36.90	426	113.10	330	186.90	8380	275.00	51296
38.10	819	116.00	1677	187.90	850	275.90	6729
39.00	6218	116.90	22776	188.90	2033	276.90	5299
40.00	786	117.90	1953	189.90	351	277.80	703
41.00	706	119.10	319	190.90	946	280.90	272
42.10	249	119.90	384	192.00	2663	281.90	157
42.90	487	121.90	2167	192.90	2802	283.10	468
43.90	517	122.90	2958	193.90	621	284.00	260
45.00	244	123.90	1095	195.90	5808	284.90	951
46.90	272	125.00	975	197.90	199552	285.90	168
48.00	167	127.00	97632	198.90	13716	291.00	183
49.00	1498	128.00	7876	199.90	1136	292.00	279
50.00	20312	128.90	39632	201.40	1196	293.00	1076
51.00	80480	130.00	2791	202.90	1831	293.70	347
52.00	3875	130.90	753	204.00	7458	294.90	472
53.00	287	132.10	476	205.00	11656	295.90	14748
55.00	897	133.00	304	205.90	50328	297.00	2306
56.00	2802	133.90	1523	207.00	7387	297.90	154
57.00	6001	135.00	3651	207.90	2084	300.90	204
57.90	309	135.90	1387	208.90	631	302.00	367
60.00	227	137.00	1739	210.20	1021	303.00	1438
60.90	842	137.90	384	210.90	2123	304.00	373
61.90	1036	139.00	235	212.80	173	307.80	304
63.00	3639	139.90	395	213.00	174	309.90	283
64.00	570	141.00	5377	214.90	671	313.80	763
65.00	1660	141.90	1659	215.90	1109	314.90	1800
65.90	159	142.90	1243	216.90	14718	316.00	1113
67.10	266	143.90	354	217.90	1764	320.90	437
68.90	84736	145.00	292	221.00	9370	321.90	233
70.00	586	146.00	1054	222.90	3043	323.00	4736
70.90	198	146.90	2729	224.00	28320	324.00	801
72.90	938	147.90	6325	224.90	7355	326.80	929
74.00	8646	148.90	1259	226.00	821	327.90	387
75.00	13181	149.80	465	226.90	13539	332.00	248
76.00	3909	150.90	631	227.90	1757	332.90	537
77.00	95184	151.90	372	228.90	2370	333.90	2776
78.00	6998	152.90	1726	230.00	270	335.00	845
79.00	6374	153.90	1277	230.90	879	336.10	170
80.00	4917	155.00	2503	233.00	353	341.00	438

80.90	7132	156.00	4482	234.00	749	341.80	252
82.00	2108	156.90	895	235.00	1040	345.90	1153
83.00	1638	158.00	972	235.90	615	346.90	304
83.90	972	159.00	867	236.90	1229	351.90	1279
85.00	1473	159.90	1659	238.90	572	352.90	1084
86.00	2681	160.90	2475	239.80	395	354.00	1504
87.00	990	162.00	684	240.90	624	355.00	302
88.00	544	162.90	371	242.00	1843	364.90	6656
89.00	210	163.90	222	243.00	1716	365.80	743
90.90	1730	164.90	1955	244.00	22072	370.10	210
92.00	1534	165.90	1174	244.90	3256	370.80	397
93.00	10890	166.90	10327	245.90	4475	371.90	2172
93.90	633	167.90	5205	246.90	869	373.00	507
94.90	367	168.90	998	249.00	755	382.80	516
96.00	627	170.10	428	249.80	254	384.20	177
97.00	498	171.10	482	251.90	251	390.00	298
98.00	8678	171.90	1025	252.90	744	402.00	868
99.00	7062	172.90	1264	254.90	114704	402.90	1345
100.00	836	173.90	2161	255.90	17512	403.90	480
100.90	3550	175.00	4232	257.00	1426	420.90	859
102.10	204	175.90	1560	257.90	7066	421.90	825
103.00	1551	176.90	1896	258.90	891	422.90	6686
104.00	2379	177.90	727	260.00	203	423.90	1275
104.90	2099	178.90	7552	263.90	280	424.90	194
106.00	796	179.90	5688	264.90	2995	441.00	16100
107.00	27816	180.90	2686	265.80	606	441.90	108712
108.00	4447	182.10	434	269.90	209	442.90	22904
108.90	766	182.80	323	270.90	293	443.90	1858
109.90	49528	183.90	727	272.00	239	445.00	193
111.00	7468	185.00	3944	272.90	3677		

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-137999/1-A  
 Matrix: Solid Lab File ID: 1CF05025.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 15.17(g) Date Analyzed: 06/05/2013 19:12  
 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.: 138101 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	88		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05025.D  
 Lab Smp Id: mb 660-137999/1-a  
 Inj Date : 05-JUN-2013 19:12  
 Operator : SCC  
 Smp Info : mb 660-137999/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1-a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 25 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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		4.039	4.039	(1.000)	2183946	40.0000		
* 6 Acenaphthene-d10	164		5.127	5.127	(1.000)	1598557	40.0000		
* 10 Phenanthrene-d10	188		6.092	6.092	(1.000)	2946078	40.0000		
\$ 14 o-Terphenyl	230		6.345	6.345	(1.042)	404429	8.81255	580.9195	
* 18 Chrysene-d12	240		8.057	8.056	(1.000)	3429654	40.0000		
* 23 Perylene-d12	264		9.386	9.392	(1.000)	3201426	40.0000		
11 Phenanthrene	178		6.110	6.110	(1.003)	3746	0.04304	2.8370	
15 Fluoranthene	202		6.963	6.962	(1.143)	2822	0.03172	2.0909(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1CF05025.D

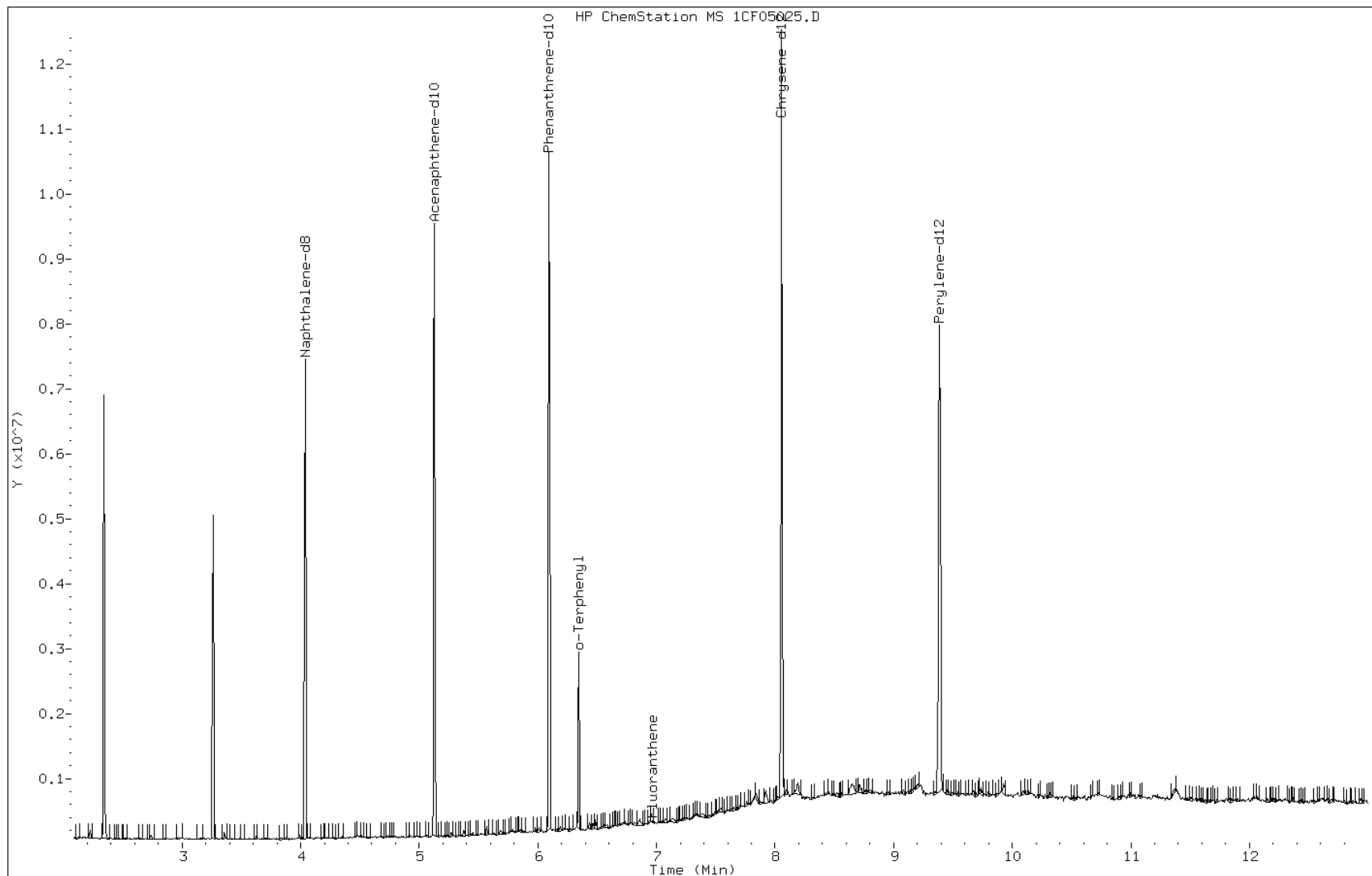
Date: 05-JUN-2013 19:12

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-137999/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-138015/1-A  
 Matrix: Solid Lab File ID: 1DF09005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.03(g) Date Analyzed: 06/09/2013 10:49  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 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	84		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09005.D  
 Lab Smp Id: mb 660-138015/1-a  
 Inj Date : 09-JUN-2013 10:49  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : mb 660-138015/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 5 QC Sample: BLANK  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.261	6.263	(1.000)	3414403	40.0000		
* 7 Acenaphthene-d10	164		7.930	7.932	(1.000)	1996386	40.0000		
* 11 Phenanthrene-d10	188		9.187	9.189	(1.000)	3209055	40.0000		
\$ 15 o-Terphenyl	230		9.498	9.500	(1.034)	393382	8.36742	560	
* 19 Chrysene-d12	240		11.549	11.557	(1.000)	3312651	40.0000		
* 24 Perylene-d12	264		13.453	13.460	(1.000)	3118448	40.0000		
12 Phenanthrene	178		9.205	9.207	(1.002)	3240	0.03728	2.5(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: 1DF09005.D

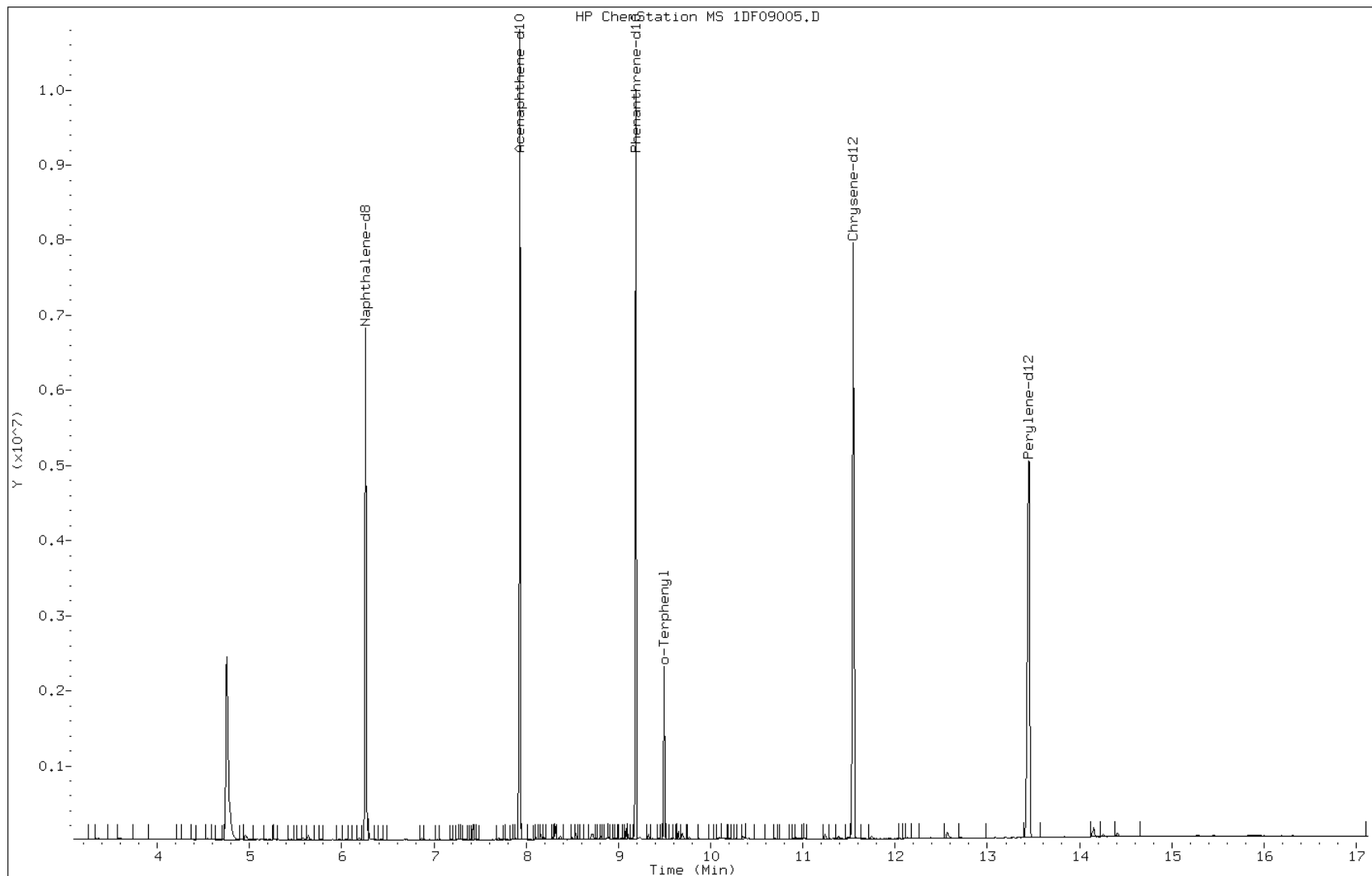
Date: 09-JUN-2013 10:49

Client ID:

Instrument: BSMSD.i

Sample Info: mb 660-138015/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-137999/2-A  
 Matrix: Solid Lab File ID: 1CF05026.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.95(g) Date Analyzed: 06/05/2013 19:30  
 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.: 138101 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	601		100	20
208-96-8	Acenaphthylene	586		40	5.0
120-12-7	Anthracene	562		8.4	4.2
56-55-3	Benzo[a]anthracene	560		8.0	3.9
50-32-8	Benzo[a]pyrene	535		10	5.2
205-99-2	Benzo[b]fluoranthene	669		12	6.1
191-24-2	Benzo[g,h,i]perylene	598		20	4.4
207-08-9	Benzo[k]fluoranthene	541		8.0	3.6
218-01-9	Chrysene	535		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	670		20	4.1
206-44-0	Fluoranthene	597		20	4.0
86-73-7	Fluorene	582		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	583		20	7.1
90-12-0	1-Methylnaphthalene	546		40	4.4
91-57-6	2-Methylnaphthalene	564		40	7.1
91-20-3	Naphthalene	454		40	4.4
85-01-8	Phenanthrene	534		8.0	3.9
129-00-0	Pyrene	539		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05026.D  
 Lab Smp Id: lcs 660-137999/2-a  
 Inj Date : 05-JUN-2013 19:30  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-137999/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 26 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	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2085180	40.0000			
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1507736	40.0000			
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2687188	40.0000			
\$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	359011	8.57656	573.6831		
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3438292	40.0000			
* 23 Perylene-d12	264	9.386	9.392	(1.000)	3126738	40.0000			
2 Naphthalene	128	4.051	4.051	(1.003)	399187	6.78387	453.7706		
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	275229	8.43259	564.0528		
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	262351	8.16982	546.4759		
5 Acenaphthylene	152	5.039	5.039	(0.983)	506742	8.76715	586.4316		
7 Acenaphthene	154	5.145	5.145	(1.003)	325489	8.97993	600.6644		
9 Fluorene	166	5.468	5.468	(1.067)	402338	8.69943	581.9019		
11 Phenanthrene	178	6.110	6.110	(1.003)	633345	7.97755	533.6156		
12 Anthracene	178	6.145	6.145	(1.009)	617579	8.39665	561.6486		

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	6.251	6.251	(1.026)	558195	8.24058	551.2092
15 Fluoranthene	202	6.962	6.962	(1.143)	723876	8.92041	596.6827
16 Pyrene	202	7.133	7.133	(0.885)	747971	8.05616	538.8736
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	794008	8.37480	560.1875
19 Chrysene	228	8.074	8.074	(1.002)	763588	7.99940	535.0767
20 Benzo(b)fluoranthene	252	8.980	8.986	(0.957)	768565	10.0044	669.1934
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.960)	693607	8.08377	540.7204
22 Benzo(a)pyrene	252	9.321	9.327	(0.993)	620326	7.99643	534.8784
24 Indeno(1,2,3-cd)pyrene	276	10.756	10.768	(1.146)	715027	8.70869	582.5213(M)
25 Dibenzo(a,h)anthracene	278	10.780	10.786	(1.149)	668555	10.0177	670.0818
26 Benzo(g,h,i)perylene	276	11.180	11.186	(1.191)	649890	8.94685	598.4514

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CF05026.D

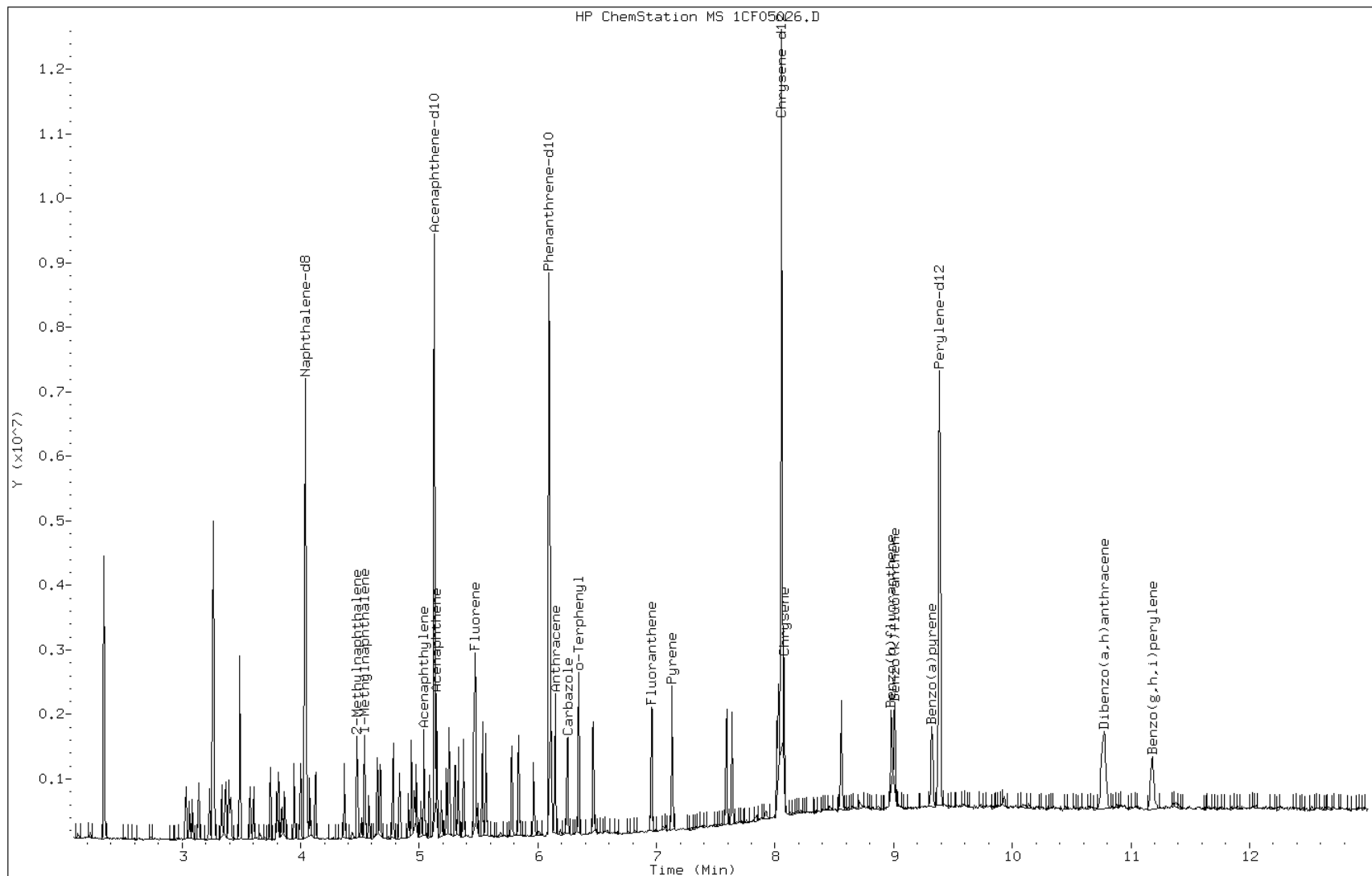
Date: 05-JUN-2013 19:30

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-137999/2-a

Operator: SCC

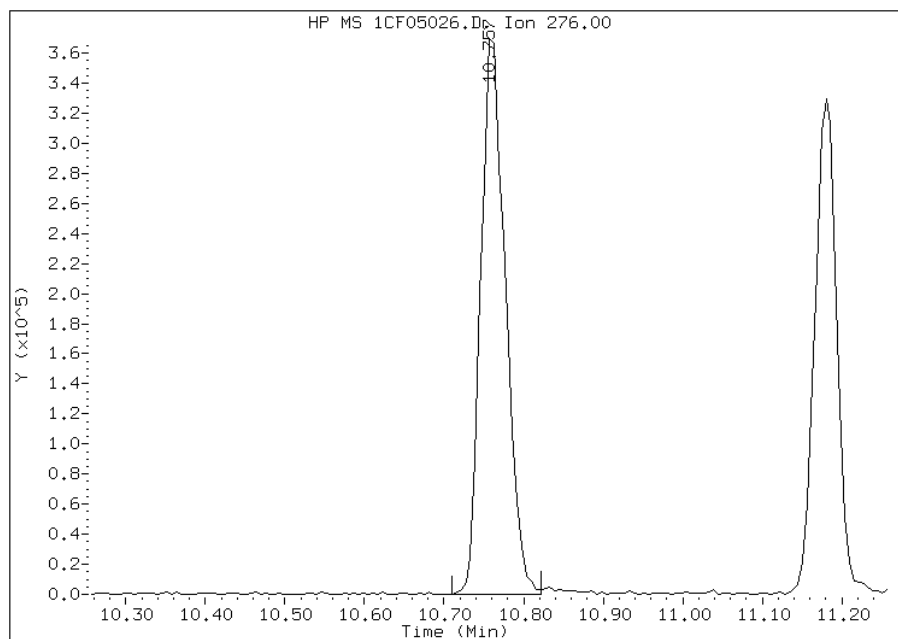


# Manual Integration Report

Data File: 1CF05026.D  
Inj. Date and Time: 05-JUN-2013 19:30  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/06/2013

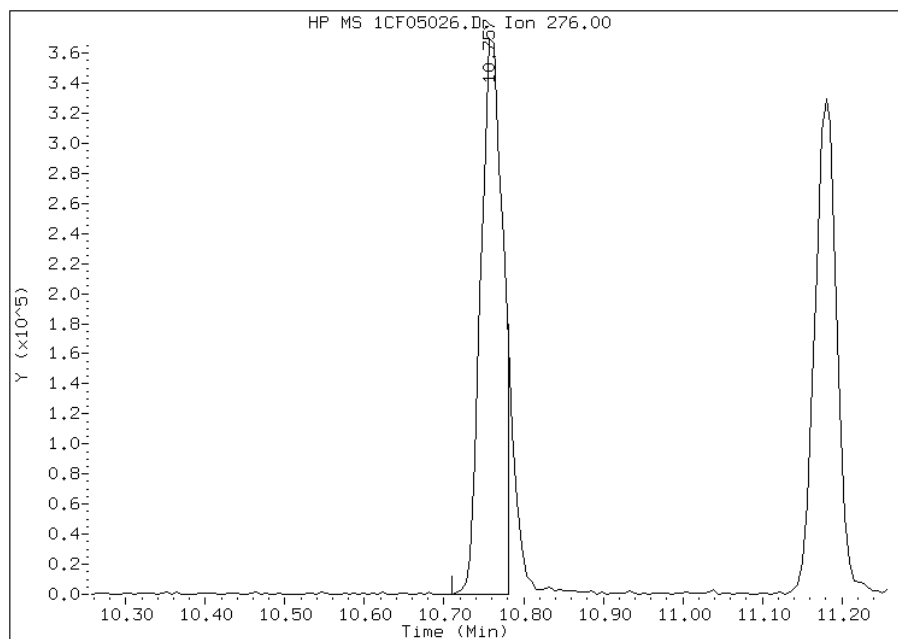
## Processing Integration Results

RT: 10.76  
Response: 795851  
Amount: 10  
Conc: 647



## Manual Integration Results

RT: 10.76  
Response: 715027  
Amount: 9  
Conc: 583



Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:42  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-138015/2-A  
 Matrix: Solid Lab File ID: 1DF09006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.03(g) Date Analyzed: 06/09/2013 11:12  
 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.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	548		100	20
208-96-8	Acenaphthylene	587		40	5.0
120-12-7	Anthracene	583		8.4	4.2
56-55-3	Benzo[a]anthracene	504		8.0	3.9
50-32-8	Benzo[a]pyrene	511		10	5.2
205-99-2	Benzo[b]fluoranthene	567		12	6.1
191-24-2	Benzo[g,h,i]perylene	577		20	4.4
207-08-9	Benzo[k]fluoranthene	556		8.0	3.6
218-01-9	Chrysene	511		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	557		20	4.1
206-44-0	Fluoranthene	578		20	4.0
86-73-7	Fluorene	593		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	532		20	7.1
90-12-0	1-Methylnaphthalene	537		40	4.4
91-57-6	2-Methylnaphthalene	586		40	7.1
91-20-3	Naphthalene	552		40	4.4
85-01-8	Phenanthrene	560		8.0	3.9
129-00-0	Pyrene	520		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09006.D  
 Lab Smp Id: lcs 660-138015/2-a  
 Inj Date : 09-JUN-2013 11:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : lcs 660-138015/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 6 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.260	6.263	(1.000)	3444683	40.0000		
* 7 Acenaphthene-d10	164		7.934	7.932	(1.000)	2068111	40.0000		
* 11 Phenanthrene-d10	188		9.191	9.189	(1.000)	3434704	40.0000		
\$ 15 o-Terphenyl	230		9.497	9.500	(1.033)	413027	8.20812	550	
* 19 Chrysene-d12	240		11.553	11.557	(1.000)	3615125	40.0000		
* 24 Perylene-d12	264		13.457	13.460	(1.000)	3424339	40.0000		
2 Naphthalene	128		6.277	6.281	(1.003)	704633	8.29491	550	
3 2-Methylnaphthalene	142		6.976	6.980	(1.115)	476286	8.80584	580	
4 1-Methylnaphthalene	142		7.070	7.074	(1.130)	449422	8.07113	540	
6 Acenaphthylene	152		7.805	7.802	(0.984)	756882	8.82693	590	
8 Acenaphthene	154		7.958	7.961	(1.003)	448287	8.24127	550	
10 Fluorene	166		8.398	8.402	(1.058)	548790	8.91672	590	
12 Phenanthrene	178		9.209	9.207	(1.002)	782628	8.41327	560	
13 Anthracene	178		9.244	9.248	(1.006)	790497	8.75819	580	



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.190	10.194	(1.109)	826853	8.68853	580
17 Pyrene	202	10.378	10.382	(0.898)	827843	7.82148	520
18 Benzo(a)anthracene	228	11.536	11.539	(0.998)	812990	7.57757	500
20 Chrysene	228	11.577	11.580	(1.002)	742110	7.68136	510
21 Benzo(b)fluoranthene	252	12.887	12.896	(0.958)	730468	8.51487	570
22 Benzo(k)fluoranthene	252	12.922	12.938	(0.960)	750927	8.35883	560
23 Benzo(a)pyrene	252	13.351	13.361	(0.992)	643966	7.68087	510
25 Indeno(1,2,3-cd)pyrene	276	15.090	15.111	(1.121)	698096	7.99109	530(M)
26 Dibenzo(a,h)anthracene	278	15.126	15.147	(1.124)	679080	8.36950	560
27 Benzo(g,h,i)perylene	276	15.560	15.587	(1.156)	674284	8.67197	580

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF09006.D

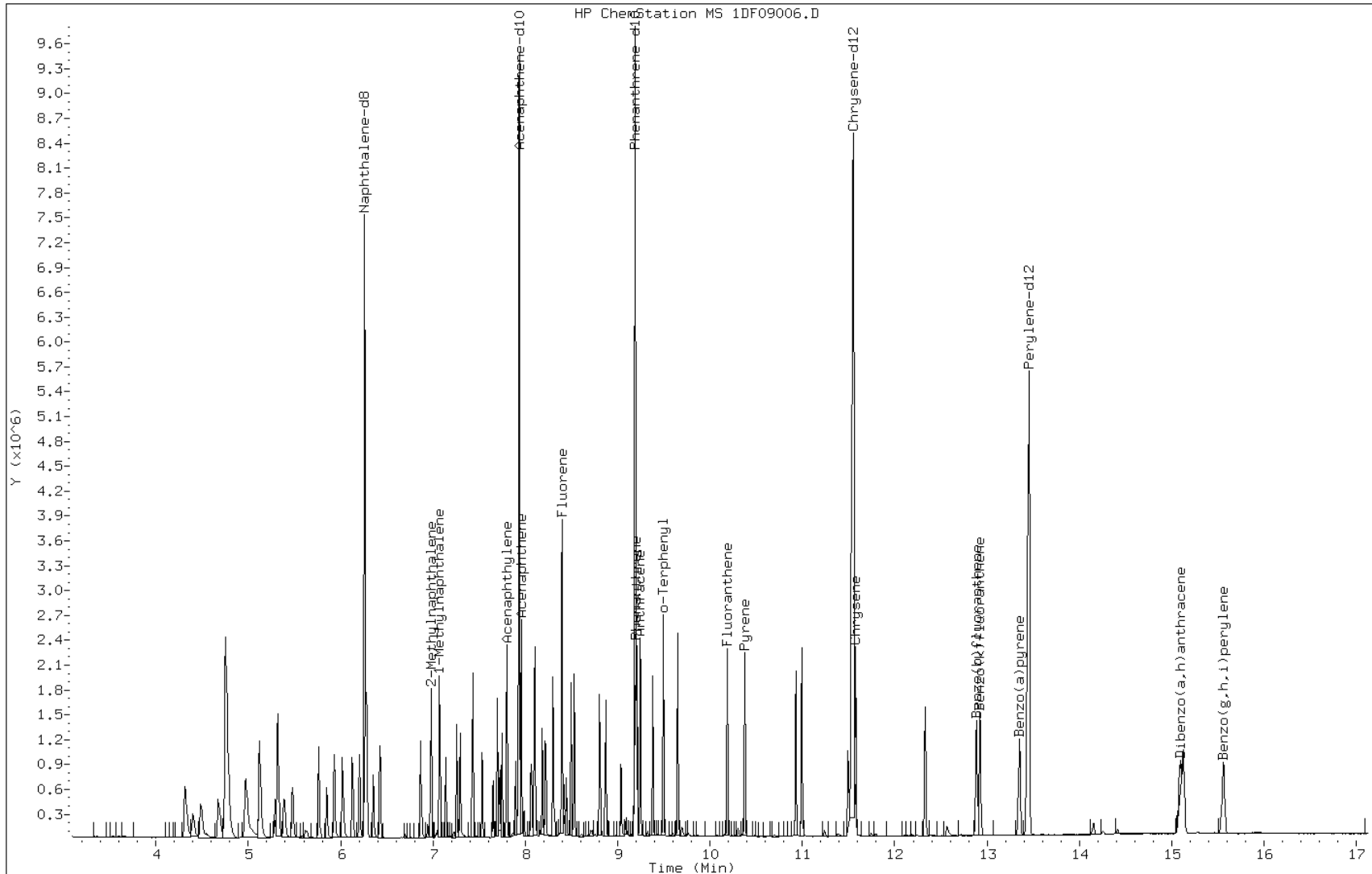
Date: 09-JUN-2013 11:12

Client ID:

Instrument: BSMDS.i

Sample Info: lcs 660-138015/2-a

Operator: SCC

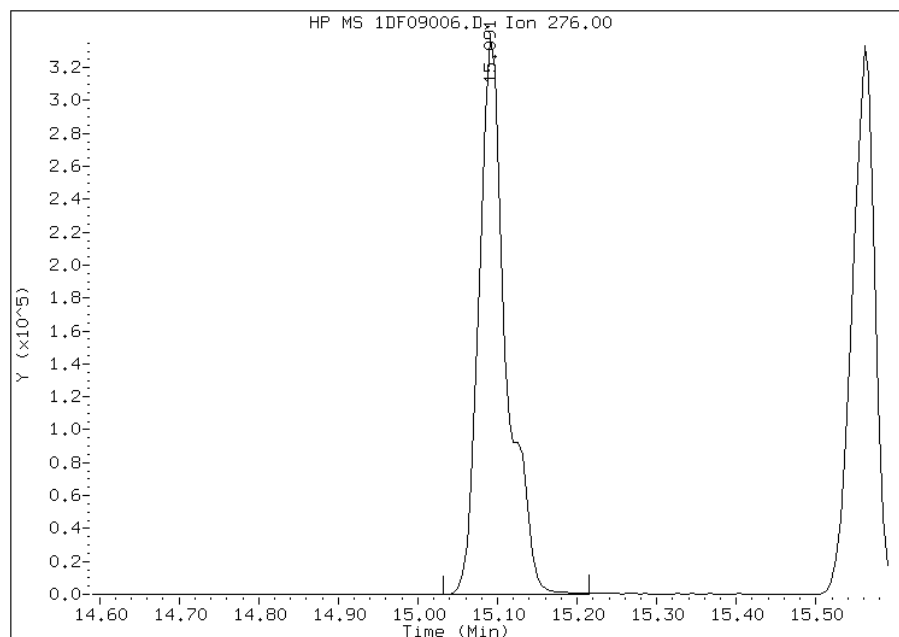


# Manual Integration Report

Data File: 1DF09006.D  
Inj. Date and Time: 09-JUN-2013 11:12  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

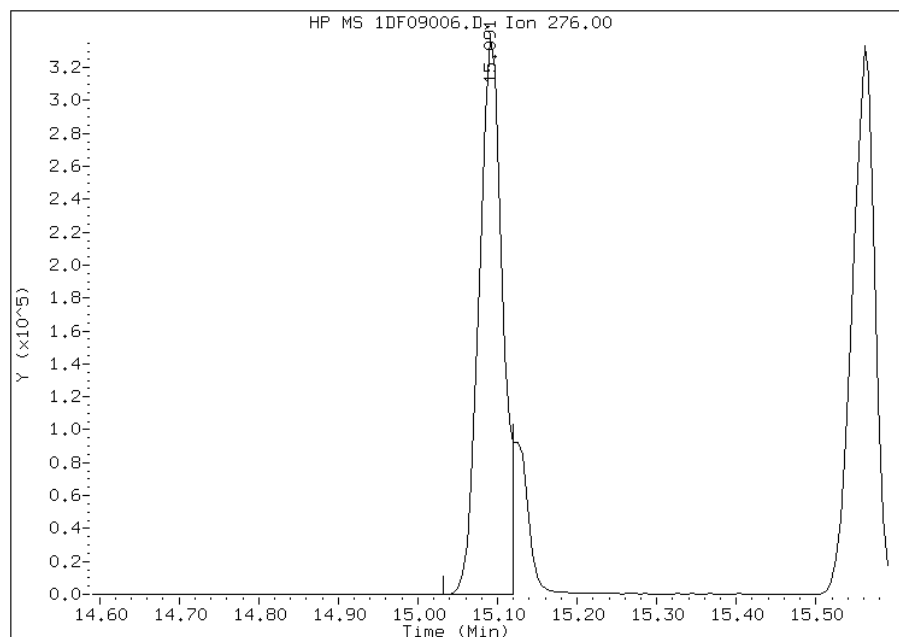
## Processing Integration Results

RT: 15.09  
Response: 798870  
Amount: 9  
Conc: 607



## Manual Integration Results

RT: 15.09  
Response: 698096  
Amount: 8  
Conc: 532



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 11:51  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-90852-A-22-B MS  
 Matrix: Solid Lab File ID: 1DF09018.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.02(g) Date Analyzed: 06/09/2013 15:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	461		120	24
208-96-8	Acenaphthylene	537		49	6.1
120-12-7	Anthracene	560		10	5.1
56-55-3	Benzo[a]anthracene	568		9.8	4.8
50-32-8	Benzo[a]pyrene	557		13	6.3
205-99-2	Benzo[b]fluoranthene	857		15	7.4
191-24-2	Benzo[g,h,i]perylene	394		24	5.4
207-08-9	Benzo[k]fluoranthene	594		9.8	4.4
218-01-9	Chrysene	605		11	5.5
53-70-3	Dibenz(a,h)anthracene	396		24	5.0
206-44-0	Fluoranthene	607		24	4.9
86-73-7	Fluorene	503		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	404		24	8.7
90-12-0	1-Methylnaphthalene	486		49	5.4
91-57-6	2-Methylnaphthalene	549		49	8.7
91-20-3	Naphthalene	542		49	5.4
85-01-8	Phenanthrene	575		9.8	4.8
129-00-0	Pyrene	536		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09018.D  
 Lab Smp Id: 680-90852-a-22-b ms  
 Inj Date : 09-JUN-2013 15:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-22-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 17 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.271	6.263	(1.000)	3233915	40.0000	
* 7 Acenaphthene-d10	164		7.940	7.932	(1.000)	1821156	40.0000	
* 11 Phenanthrene-d10	188		9.203	9.189	(1.000)	2827499	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.500	(1.033)	216662	5.23040	350
* 19 Chrysene-d12	240		11.577	11.557	(1.000)	3016240	40.0000	
* 24 Perylene-d12	264		13.504	13.460	(1.000)	2851049	40.0000	(H)
2 Naphthalene	128		6.289	6.281	(1.003)	531555	6.66527	440
3 2-Methylnaphthalene	142		6.988	6.980	(1.114)	343214	6.75910	450
4 1-Methylnaphthalene	142		7.082	7.074	(1.129)	312338	5.97483	400
6 Acenaphthylene	152		7.810	7.802	(0.984)	499124	6.61023	440
8 Acenaphthene	154		7.963	7.961	(1.003)	271407	5.66612	380
10 Fluorene	166		8.410	8.402	(1.059)	335350	6.18762	410
12 Phenanthrene	178		9.220	9.207	(1.002)	541256	7.06804	470
13 Anthracene	178		9.256	9.248	(1.006)	511487	6.88392	460

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.202	10.194	(1.109)	585226	7.47014	500
17 Pyrene	202	10.390	10.382	(0.897)	582608	6.59743	440
18 Benzo(a)anthracene	228	11.559	11.539	(0.998)	625644	6.98923	460
20 Chrysene	228	11.600	11.580	(1.002)	600243	7.44654	500
21 Benzo(b)fluoranthene	252	12.934	12.896	(0.958)	753152	10.5446	700(H)
22 Benzo(k)fluoranthene	252	12.969	12.938	(0.960)	546534	7.30696	490(H)
23 Benzo(a)pyrene	252	13.404	13.361	(0.993)	477854	6.85636	460(H)
25 Indeno(1,2,3-cd)pyrene	276	15.172	15.111	(1.124)	357535	4.97263	330(MH)
26 Dibenzo(a,h)anthracene	278	15.202	15.147	(1.126)	326934	4.86997	320(H)
27 Benzo(g,h,i)perylene	276	15.654	15.587	(1.159)	313995	4.85031	320(H)

QC Flag Legend

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

Data File: 1DF09018.D

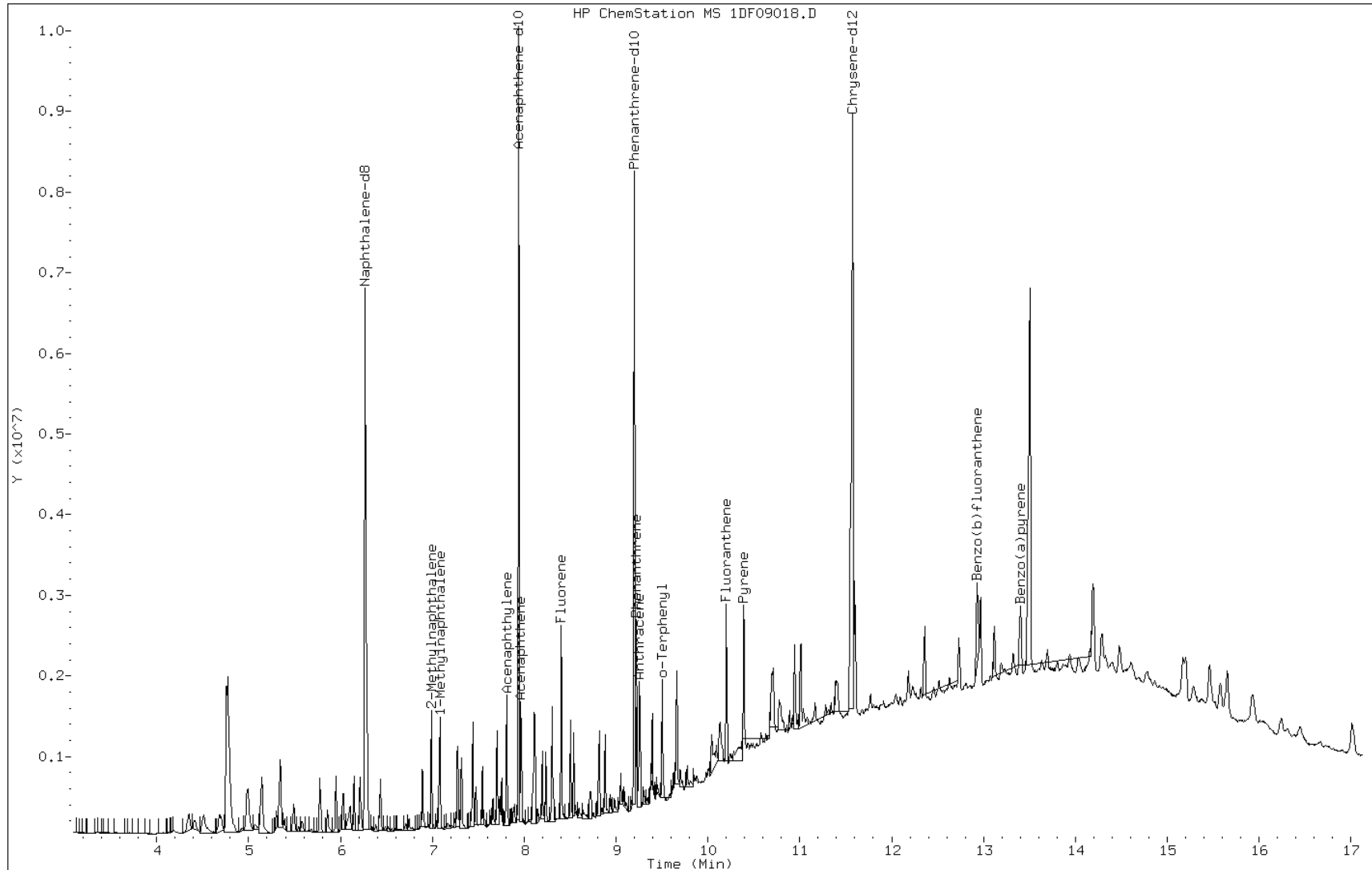
Date: 09-JUN-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90852-a-22-b ms

Operator: SCC

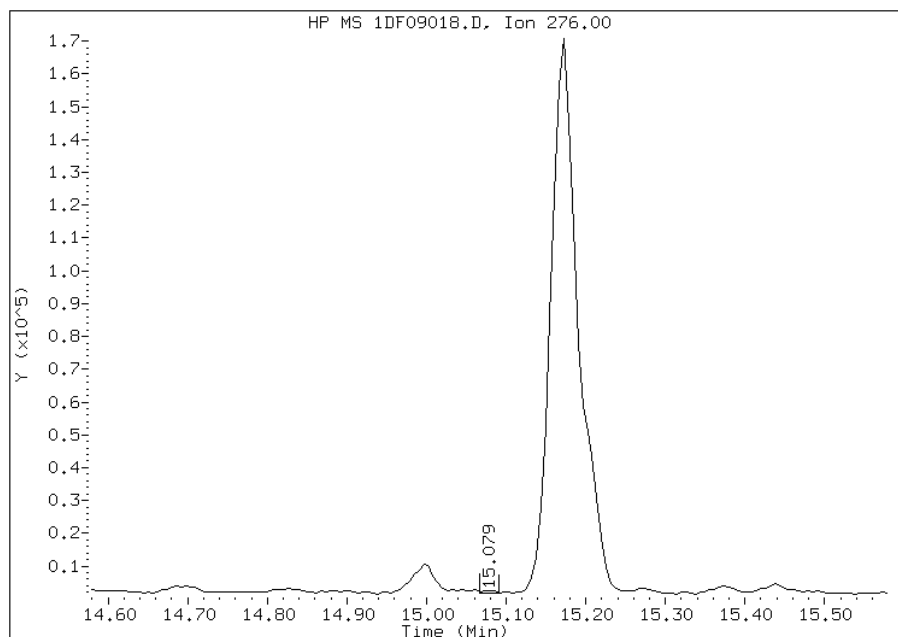


# Manual Integration Report

Data File: 1DF09018.D  
Inj. Date and Time: 09-JUN-2013 15:42  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

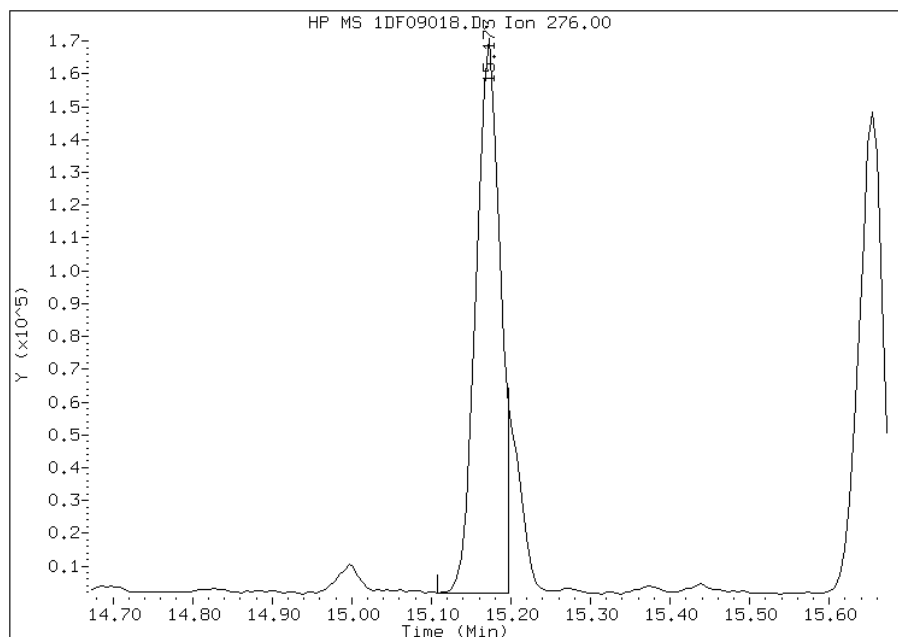
## Processing Integration Results

RT: 15.08  
Response: 1056  
Amount: 0  
Conc: 11



## Manual Integration Results

RT: 15.17  
Response: 357535  
Amount: 5  
Conc: 331



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:24  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0322A-CS-SP MS Lab Sample ID: 680-90852-9 MS  
 Matrix: Solid Lab File ID: 1CF05028.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:36  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.95(g) Date Analyzed: 06/05/2013 20:07  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 8.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138101 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	394		110	22
208-96-8	Acenaphthylene	419		44	5.5
120-12-7	Anthracene	417		9.2	4.6
56-55-3	Benzo[a]anthracene	429		8.7	4.3
50-32-8	Benzo[a]pyrene	382		11	5.7
205-99-2	Benzo[b]fluoranthene	519		13	6.7
191-24-2	Benzo[g,h,i]perylene	425		22	4.8
207-08-9	Benzo[k]fluoranthene	400		8.7	3.9
218-01-9	Chrysene	441		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	418		22	4.5
206-44-0	Fluoranthene	467		22	4.4
86-73-7	Fluorene	444		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	373		22	7.8
90-12-0	1-Methylnaphthalene	565		44	4.8
91-57-6	2-Methylnaphthalene	517		44	7.8
91-20-3	Naphthalene	371		44	4.8
85-01-8	Phenanthrene	540		8.7	4.3
129-00-0	Pyrene	482		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\1CF05028.D  
 Lab Smp Id: 680-90852-a-9-b ms  
 Inj Date : 05-JUN-2013 20:07  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-90852-a-9-b ms  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 28 QC Sample: MS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2169232	40.0000	
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1562224	40.0000	
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	2941751	40.0000	
\$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	236526	5.16151	345.2513
* 18 Chrysene-d12	240	8.057	8.056	(1.000)	3209887	40.0000	
* 23 Perylene-d12	264	9.392	9.392	(1.000)	2911796	40.0000	
2 Naphthalene	128	4.051	4.051	(1.003)	311103	5.08210	339.9396
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	240950	7.09629	474.6681
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	258746	7.74534	518.0832
5 Acenaphthylene	152	5.039	5.039	(0.983)	343804	5.74070	383.9930
7 Acenaphthene	154	5.145	5.145	(1.003)	202906	5.40274	361.3869
9 Fluorene	166	5.468	5.468	(1.067)	291842	6.09017	407.3695
11 Phenanthrene	178	6.110	6.110	(1.003)	644205	7.41217	495.7976
12 Anthracene	178	6.145	6.145	(1.009)	460664	5.72124	382.6913

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	6.251	6.251	(1.026)	388871	5.28584	353.5678
15 Fluoranthene	202	6.962	6.962	(1.143)	569282	6.40826	428.6461
16 Pyrene	202	7.133	7.133	(0.885)	572845	6.60897	442.0713
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	521368	5.89043	394.0088
19 Chrysene	228	8.074	8.074	(1.002)	539253	6.05123	404.7646
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	508898	7.11334	475.8086
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	438187	5.48391	366.8169
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	375837	5.23764	350.3438
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	386190	5.11737	342.2990(M)
25 Dibenzo(a,h)anthracene	278	10.792	10.786	(1.149)	356106	5.72983	383.2662
26 Benzo(g,h,i)perylene	276	11.186	11.186	(1.191)	394012	5.82466	389.6090

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CF05028.D

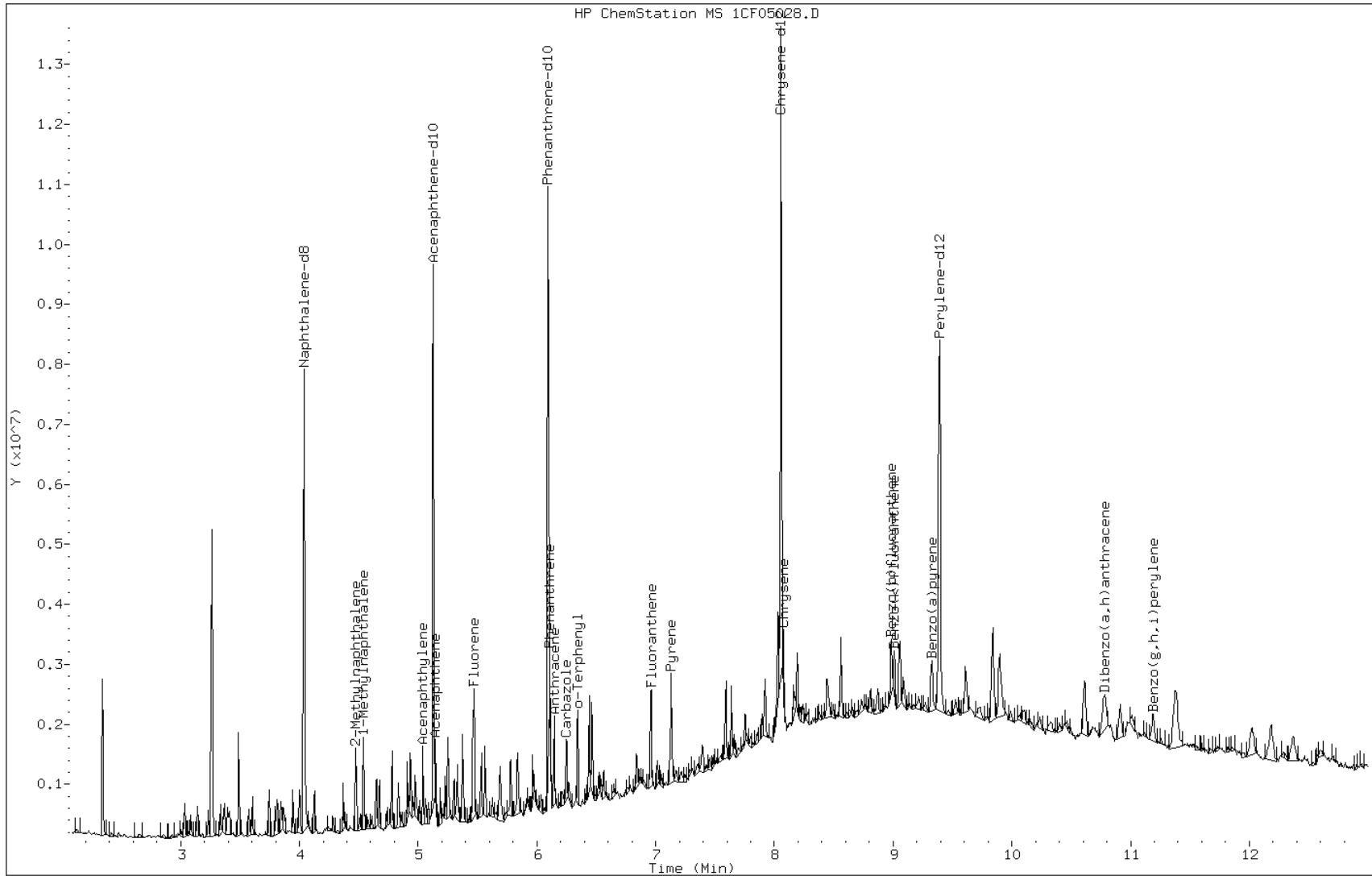
Date: 05-JUN-2013 20:07

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-b ms

Operator: SCC

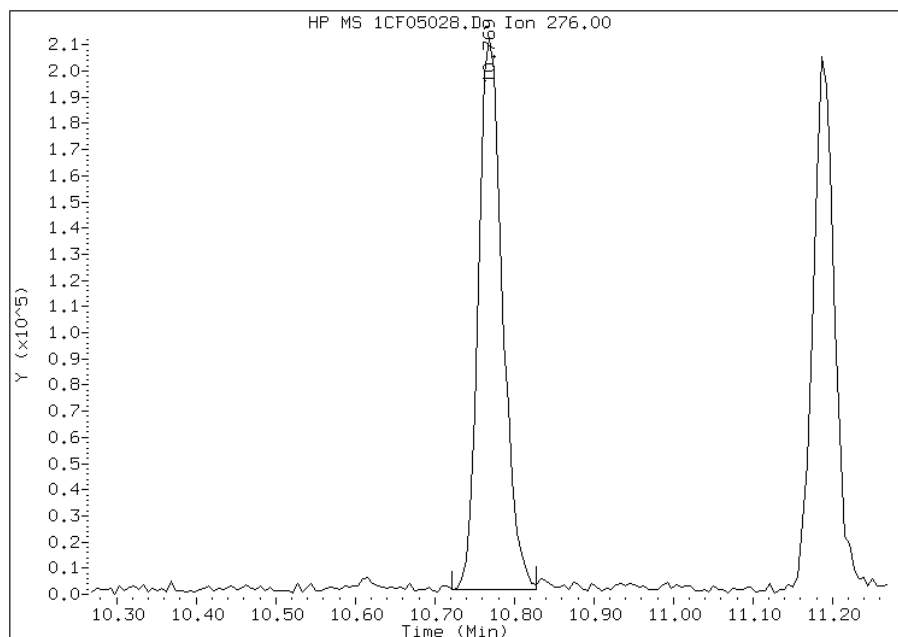


# Manual Integration Report

Data File: 1CF05028.D  
Inj. Date and Time: 05-JUN-2013 20:07  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/06/2013

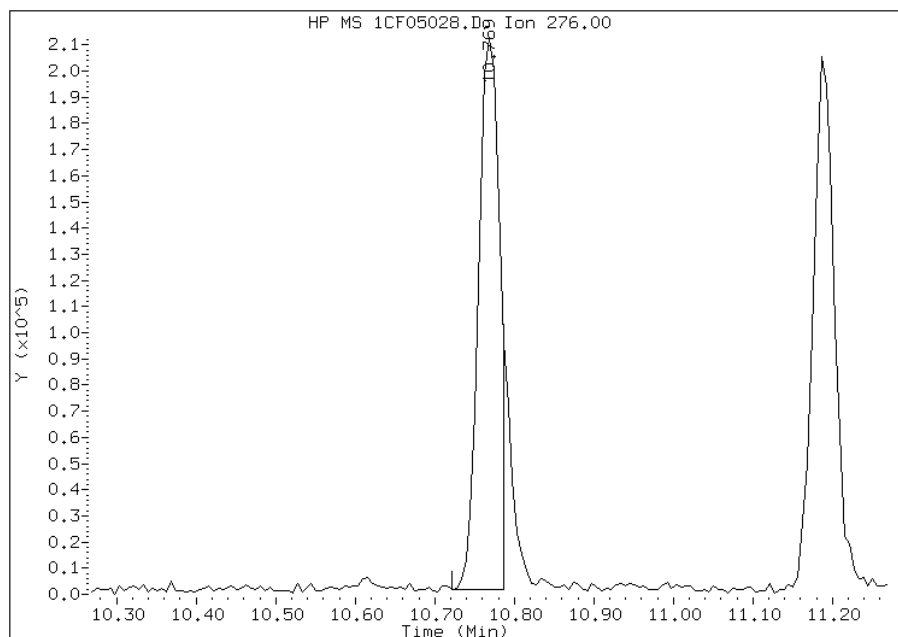
## Processing Integration Results

RT: 10.77  
Response: 442236  
Amount: 6  
Conc: 390



## Manual Integration Results

RT: 10.77  
Response: 386190  
Amount: 5  
Conc: 342



Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:45  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-90852-A-22-C MSD  
 Matrix: Solid Lab File ID: 1DF09019.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 06/04/2013 06:47  
 Sample wt/vol: 15.02(g) Date Analyzed: 06/09/2013 16:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138216 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	542		120	24
208-96-8	Acenaphthylene	629		49	6.1
120-12-7	Anthracene	645		10	5.1
56-55-3	Benzo[a]anthracene	660		9.8	4.8
50-32-8	Benzo[a]pyrene	665		13	6.3
205-99-2	Benzo[b]fluoranthene	1040		15	7.4
191-24-2	Benzo[g,h,i]perylene	475		24	5.4
207-08-9	Benzo[k]fluoranthene	705		9.8	4.4
218-01-9	Chrysene	708		11	5.5
53-70-3	Dibenz(a,h)anthracene	468		24	5.0
206-44-0	Fluoranthene	699		24	4.9
86-73-7	Fluorene	590		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	488		24	8.7
90-12-0	1-Methylnaphthalene	594		49	5.4
91-57-6	2-Methylnaphthalene	678		49	8.7
91-20-3	Naphthalene	656		49	5.4
85-01-8	Phenanthrene	649		9.8	4.8
129-00-0	Pyrene	636		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\1DF09019.D  
 Lab Smp Id: 680-90852-a-22-c ms  
 Inj Date : 09-JUN-2013 16:05  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-90852-a-22-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060913.b\dFASTPAHi.m  
 Meth Date : 09-Jun-2013 10:22 cantins Quant Type: ISTD  
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D  
 Als bottle: 18 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN ( ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.268	6.263	(1.000)	3264004	40.0000	
* 7 Acenaphthene-d10	164		7.943	7.932	(1.000)	1894821	40.0000	
* 11 Phenanthrene-d10	188		9.200	9.189	(1.000)	2969765	40.0000	
\$ 15 o-Terphenyl	230		9.506	9.500	(1.033)	263435	6.05488	400
* 19 Chrysene-d12	240		11.580	11.557	(1.000)	3092749	40.0000	
* 24 Perylene-d12	264		13.513	13.460	(1.000)	2844680	40.0000	(H)
2 Naphthalene	128		6.292	6.281	(1.004)	649174	8.06508	540
3 2-Methylnaphthalene	142		6.991	6.980	(1.115)	427114	8.33385	550
4 1-Methylnaphthalene	142		7.085	7.074	(1.130)	385605	7.30838	490
6 Acenaphthylene	152		7.814	7.802	(0.984)	607785	7.73637	520
8 Acenaphthene	154		7.966	7.961	(1.003)	332529	6.67227	440
10 Fluorene	166		8.407	8.402	(1.058)	409422	7.26065	480
12 Phenanthrene	178		9.218	9.207	(1.002)	642194	7.98441	530
13 Anthracene	178		9.259	9.248	(1.006)	619336	7.93611	530

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
16 Fluoranthene	202	10.205	10.194	(1.109)	707502	8.59831	570
17 Pyrene	202	10.393	10.382	(0.898)	707897	7.81790	520
18 Benzo(a)anthracene	228	11.568	11.539	(0.999)	744861	8.11518	540
20 Chrysene	228	11.603	11.580	(1.002)	720243	8.71420	580
21 Benzo(b)fluoranthene	252	12.943	12.896	(0.958)	913997	12.8252	850(H)
22 Benzo(k)fluoranthene	252	12.978	12.938	(0.960)	647584	8.67735	580(H)
23 Benzo(a)pyrene	252	13.413	13.361	(0.993)	569891	8.17601	540(H)
25 Indeno(1,2,3-cd)pyrene	276	15.187	15.111	(1.124)	433352	6.00880	400(MH)
26 Dibenzo(a,h)anthracene	278	15.217	15.147	(1.126)	386353	5.75468	380(H)
27 Benzo(g,h,i)perylene	276	15.675	15.587	(1.160)	377459	5.84370	390(H)

QC Flag Legend

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



Data File: 1DF09019.D

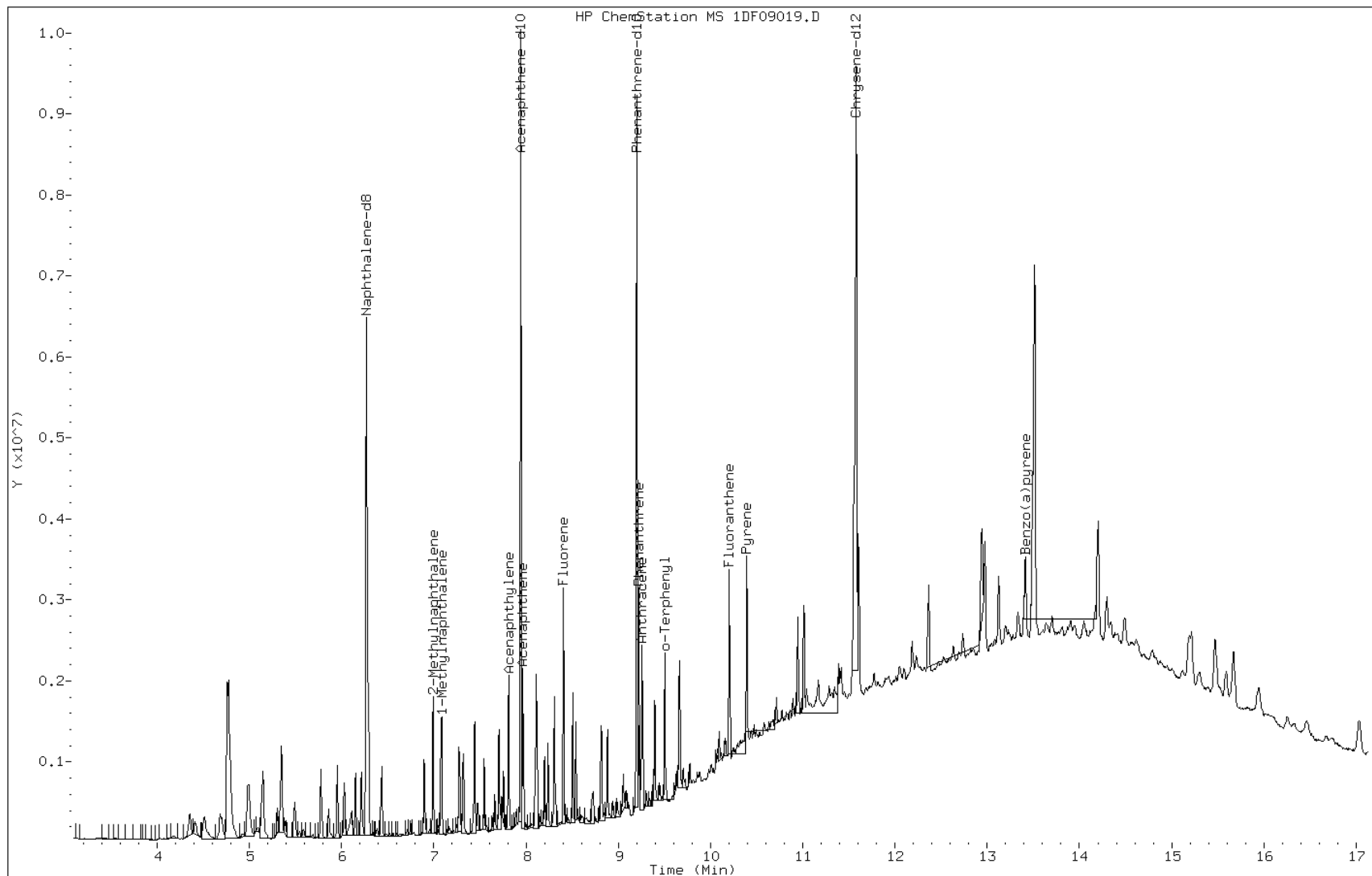
Date: 09-JUN-2013 16:05

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90852-a-22-c msd

Operator: SCC

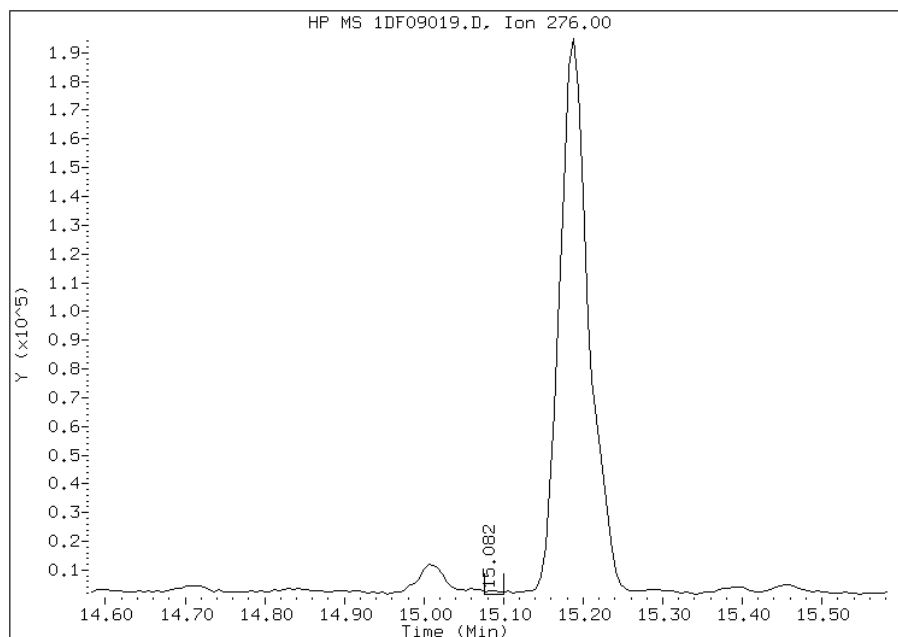


# Manual Integration Report

Data File: 1DF09019.D  
Inj. Date and Time: 09-JUN-2013 16:05  
Instrument ID: BSMDS.i  
Client ID:  
Compound: 25 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/10/2013

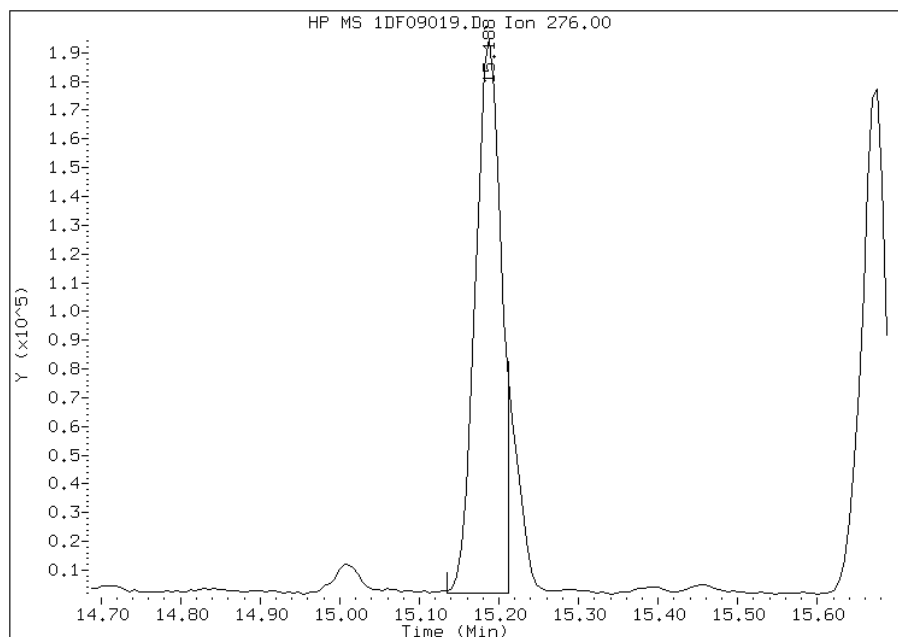
## Processing Integration Results

RT: 15.08  
Response: 1401  
Amount: 0  
Conc: 11



## Manual Integration Results

RT: 15.19  
Response: 433352  
Amount: 6  
Conc: 400



Manually Integrated By: cantins  
Modification Date: 10-Jun-2013 12:26  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1  
 SDG No.: 68090852-1  
 Client Sample ID: FM0322A-CS-SP MSD Lab Sample ID: 680-90852-9 MSD  
 Matrix: Solid Lab File ID: 1CF05029.D  
 Analysis Method: 8270C LL Date Collected: 05/28/2013 13:36  
 Extract. Method: 3546 Date Extracted: 06/03/2013 13:04  
 Sample wt/vol: 14.95(g) Date Analyzed: 06/05/2013 20:25  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 8.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 138101 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	399		110	22
208-96-8	Acenaphthylene	442		44	5.5
120-12-7	Anthracene	447		9.2	4.6
56-55-3	Benzo[a]anthracene	479		8.7	4.3
50-32-8	Benzo[a]pyrene	434		11	5.7
205-99-2	Benzo[b]fluoranthene	537		13	6.7
191-24-2	Benzo[g,h,i]perylene	487		22	4.8
207-08-9	Benzo[k]fluoranthene	461		8.7	3.9
218-01-9	Chrysene	499		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	463		22	4.5
206-44-0	Fluoranthene	529		22	4.4
86-73-7	Fluorene	439		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	413		22	7.8
90-12-0	1-Methylnaphthalene	465		44	4.8
91-57-6	2-Methylnaphthalene	514		44	7.8
91-20-3	Naphthalene	364		44	4.8
85-01-8	Phenanthrene	502		8.7	4.3
129-00-0	Pyrene	498		22	4.0

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\1C060513.b\1CF05029.D  
 Lab Smp Id: 680-90852-a-9-c msd  
 Inj Date : 05-JUN-2013 20:25  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-90852-a-9-c msd  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C060513.b\a-bFASTPAHi-m.m  
 Meth Date : 05-Jun-2013 11:39 cantins Quant Type: ISTD  
 Cal Date : 22-MAY-2013 18:05 Cal File: 1CE22020.D  
 Als bottle: 29 QC Sample: MSD  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	4.039	4.039	(1.000)	2239395	40.0000			
* 6 Acenaphthene-d10	164	5.127	5.127	(1.000)	1640510	40.0000			
* 10 Phenanthrene-d10	188	6.092	6.092	(1.000)	3027304	40.0000			
\$ 14 o-Terphenyl	230	6.345	6.345	(1.042)	271279	5.75259	384.7888		
* 18 Chrysene-d12	240	8.056	8.056	(1.000)	3579574	40.0000			
* 23 Perylene-d12	264	9.392	9.392	(1.000)	3250006	40.0000			
2 Naphthalene	128	4.051	4.051	(1.003)	315253	4.98854	333.6814		
3 2-Methylnaphthalene	142	4.474	4.474	(1.108)	247156	7.05100	471.6388		
4 1-Methylnaphthalene	142	4.539	4.539	(1.124)	220081	6.38153	426.8582		
5 Acenaphthylene	152	5.039	5.039	(0.983)	381580	6.06742	405.8471		
7 Acenaphthene	154	5.145	5.145	(1.003)	216067	5.47863	366.4632		
9 Fluorene	166	5.468	5.468	(1.067)	303256	6.02637	403.1016		
11 Phenanthrene	178	6.110	6.110	(1.003)	615522	6.88201	460.3348		
12 Anthracene	178	6.145	6.145	(1.009)	507490	6.12467	409.6771		

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	6.251	6.251	(1.026)	437187	5.76403	385.5537
15 Fluoranthene	202	6.962	6.962	(1.143)	663566	7.25850	485.5181
16 Pyrene	202	7.133	7.133	(0.885)	659576	6.82370	456.4344
17 Benzo(a)anthracene	228	8.051	8.051	(0.999)	648230	6.56735	439.2878
19 Chrysene	228	8.080	8.074	(1.003)	680044	6.84300	457.7257
20 Benzo(b)fluoranthene	252	8.986	8.986	(0.957)	588488	7.36983	492.9649
21 Benzo(k)fluoranthene	252	9.009	9.009	(0.959)	564066	6.32467	423.0547
22 Benzo(a)pyrene	252	9.327	9.327	(0.993)	477710	5.95056	398.0306
24 Indeno(1,2,3-cd)pyrene	276	10.768	10.768	(1.147)	479184	5.67116	379.3419(M)
25 Dibenzo(a,h)anthracene	278	10.792	10.786	(1.149)	440598	6.35158	424.8548
26 Benzo(g,h,i)perylene	276	11.192	11.186	(1.192)	504809	6.68597	447.2223

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CF05029.D

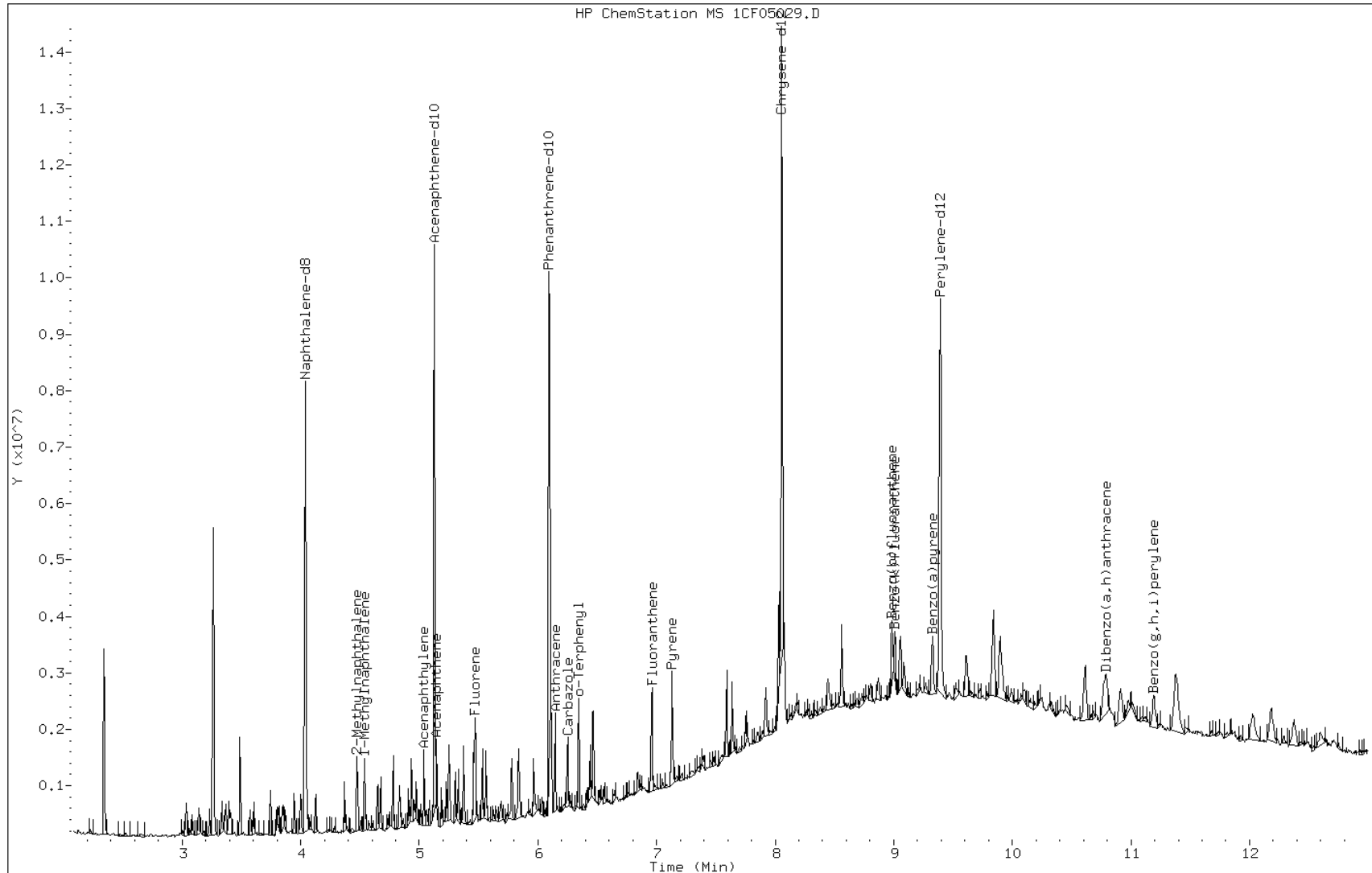
Date: 05-JUN-2013 20:25

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-90852-a-9-c msd

Operator: SCC

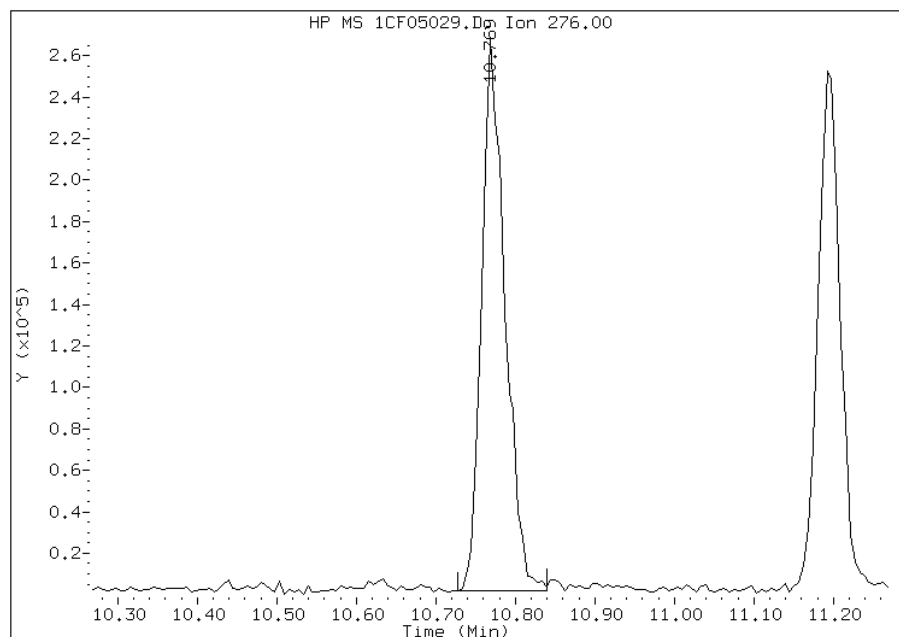


# Manual Integration Report

Data File: 1CF05029.D  
Inj. Date and Time: 05-JUN-2013 20:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 06/06/2013

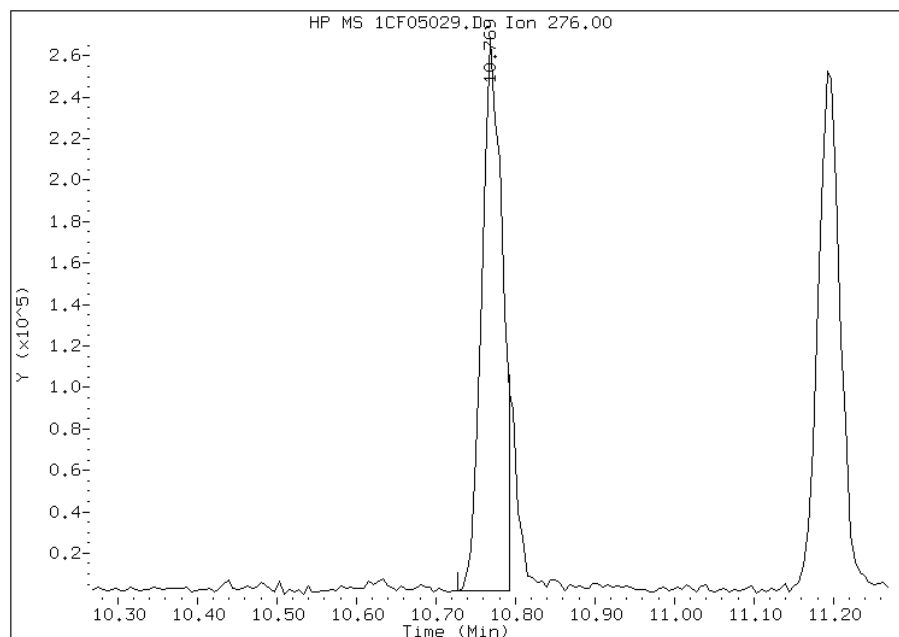
## Processing Integration Results

RT: 10.77  
Response: 540896  
Amount: 6  
Conc: 427



## Manual Integration Results

RT: 10.77  
Response: 479184  
Amount: 6  
Conc: 379



Manually Integrated By: cantins  
Modification Date: 06-Jun-2013 13:45  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMA5973 Start Date: 05/30/2013 11:28Analysis Batch Number: 137917 End Date: 05/30/2013 19:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/30/2013 11:28	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 11:43	1		DB-5MS 250 (um)
DFTPP 660-137917/2		05/30/2013 11:58	1		DB-5MS 250 (um)
CCVIS 660-137917/3		05/30/2013 12:26	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 14:21	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 14:36	1		DB-5MS 250 (um)
DFTPP 660-137917/6		05/30/2013 14:51	1	1AE30005.D	DB-5MS 250 (um)
ICIS 660-137917/7		05/30/2013 15:07	1	1AE30006.D	DB-5MS 250 (um)
IC 660-137917/8		05/30/2013 15:23	1	1AE30007.D	DB-5MS 250 (um)
IC 660-137917/9		05/30/2013 15:38	1	1AE30008.D	DB-5MS 250 (um)
IC 660-137917/10		05/30/2013 15:53	1	1AE30009.D	DB-5MS 250 (um)
IC 660-137917/11		05/30/2013 16:08	1	1AE30010.D	DB-5MS 250 (um)
IC 660-137917/12		05/30/2013 16:23	1	1AE30011.D	DB-5MS 250 (um)
IC 660-137917/13		05/30/2013 16:38	1	1AE30012.D	DB-5MS 250 (um)
ICV 660-137917/14		05/30/2013 16:53	1	1AE30013.D	DB-5MS 250 (um)
ZZZZZ		05/30/2013 17:12	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 17:27	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 17:57	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 18:13	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 18:28	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 18:58	1		DB-5MS 250 (um)
ZZZZZ		05/30/2013 19:13	680		DB-5MS 250 (um)
ZZZZZ		05/30/2013 19:28	680		DB-5MS 250 (um)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973Start Date: 05/22/2013 09:37Analysis Batch Number: 137704End Date: 05/22/2013 22:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/22/2013 09:37	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 10:04	1		DB-5MS 250 (um)
DFTPP 660-137704/2		05/22/2013 10:24	1	1CE22002.D	DB-5MS 250 (um)
CCVIS 660-137704/3		05/22/2013 10:41	1		DB-5MS 250 (um)
CCV 660-137704/4		05/22/2013 11:07	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 11:28	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 11:49	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 12:09	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 12:30	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 12:51	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 13:11	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 13:32	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 13:53	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 15:57	1		DB-5MS 250 (um)
IC 660-137704/15		05/22/2013 16:16	1	1CE22014.D	DB-5MS 250 (um)
IC 660-137704/16		05/22/2013 16:34	1	1CE22015.D	DB-5MS 250 (um)
IC 660-137704/17		05/22/2013 16:52	1	1CE22016.D	DB-5MS 250 (um)
IC 660-137704/18		05/22/2013 17:10	1	1CE22017.D	DB-5MS 250 (um)
ICIS 660-137704/19		05/22/2013 17:29	1	1CE22018.D	DB-5MS 250 (um)
IC 660-137704/20		05/22/2013 17:47	1	1CE22019.D	DB-5MS 250 (um)
IC 660-137704/21		05/22/2013 18:05	1	1CE22020.D	DB-5MS 250 (um)
ICV 660-137704/22		05/22/2013 18:24	1	1CE22021.D	DB-5MS 250 (um)
ZZZZZ		05/22/2013 18:42	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 19:00	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 19:37	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 19:55	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 20:32	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 20:50	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 21:08	4		DB-5MS 250 (um)
ZZZZZ		05/22/2013 21:27	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 21:45	1		DB-5MS 250 (um)
ZZZZZ		05/22/2013 22:03	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMC5973Start Date: 06/05/2013 10:31Analysis Batch Number: 138101End Date: 06/06/2013 00:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:31	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250 (um)
DFTPP 660-138101/2		06/05/2013 11:08	1	1CF05002.D	DB-5MS 250 (um)
CCVIS 660-138101/3		06/05/2013 11:24	1	1CF05003.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 11:43	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:01	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:20	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:39	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:57	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:16	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:34	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:52	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:11	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:41	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:00	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:18	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:27	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:45	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:03	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:22	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:40	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:59	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 18:17	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 18:35	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 18:54	1		DB-5MS 250 (um)
MB 660-137999/1-A		06/05/2013 19:12	1	1CF05025.D	DB-5MS 250 (um)
LCS 660-137999/2-A		06/05/2013 19:30	1	1CF05026.D	DB-5MS 250 (um)
680-90852-9	FM0322A-CS-SP	06/05/2013 19:49	1	1CF05027.D	DB-5MS 250 (um)
680-90852-9 MS	FM0322A-CS-SP MS	06/05/2013 20:07	1	1CF05028.D	DB-5MS 250 (um)
680-90852-9 MSD	FM0322A-CS-SP MSD	06/05/2013 20:25	1	1CF05029.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 20:44	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 21:02	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 21:20	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 21:39	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 21:57	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 22:16	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 22:34	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 22:52	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 23:11	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 23:29	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 23:47	4		DB-5MS 250 (um)
ZZZZZ		06/06/2013 00:06	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 00:24	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973Start Date: 05/23/2013 10:28Analysis Batch Number: 137830End Date: 05/23/2013 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 10:28	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 10:50	1		DB-5MS 250 (um)
DFTPP 660-137830/2		05/23/2013 11:20	1	1DE23002.D	DB-5MS 250 (um)
IC 660-137830/3		05/23/2013 13:03	1	1DE23003.D	DB-5MS 250 (um)
IC 660-137830/4		05/23/2013 13:26	1	1DE23004.D	DB-5MS 250 (um)
IC 660-137830/5		05/23/2013 13:48	1	1DE23005.D	DB-5MS 250 (um)
IC 660-137830/6		05/23/2013 14:11	1	1DE23006.D	DB-5MS 250 (um)
ICIS 660-137830/7		05/23/2013 14:33	1	1DE23007.D	DB-5MS 250 (um)
IC 660-137830/8		05/23/2013 14:56	1	1DE23008.D	DB-5MS 250 (um)
IC 660-137830/9		05/23/2013 15:19	1	1DE23009.D	DB-5MS 250 (um)
ICV 660-137830/10		05/23/2013 15:41	1	1DE23010.D	DB-5MS 250 (um)
CCVIS 660-137830/12		05/23/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:26	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:11	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:56	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:27	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:12	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:57	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:42	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973Start Date: 06/05/2013 10:50Analysis Batch Number: 138106End Date: 06/05/2013 23:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-138106/2		06/05/2013 11:38	1	1DF05002.D	DB-5MS 250 (um)
CCVIS 660-138106/3		06/05/2013 11:54	1	1DF05003.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:17	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:39	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:02	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:24	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:47	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:10	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:32	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:55	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:17	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:02	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:25	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:48	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:10	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 17:55	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 18:18	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 18:41	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 19:03	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 19:26	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 19:48	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 20:11	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 20:33	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 20:56	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 21:19	4		DB-5MS 250 (um)
680-90852-5	CV0650B-CS	06/05/2013 21:41	1	1DF05029.D	DB-5MS 250 (um)
680-90852-6	CV0696A-CS	06/05/2013 22:04	1	1DF05030.D	DB-5MS 250 (um)
680-90852-7	CV0696A-CSD	06/05/2013 22:27	1	1DF05031.D	DB-5MS 250 (um)
680-90852-8	CV0696B-CS	06/05/2013 22:49	1	1DF05032.D	DB-5MS 250 (um)
680-90852-10	FM0322B-CS-SP	06/05/2013 23:12	1	1DF05033.D	DB-5MS 250 (um)
680-90852-11	FM0348A-CS-SP	06/05/2013 23:34	4	1DF05034.D	DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973 Start Date: 06/06/2013 11:18Analysis Batch Number: 138163 End Date: 06/06/2013 19:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/06/2013 11:18	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 11:41	1		DB-5MS 250 (um)
DFTPP 660-138163/2		06/06/2013 12:05	1	1DF06002.D	DB-5MS 250 (um)
CCVIS 660-138163/3		06/06/2013 12:28	1		DB-5MS 250 (um)
CCVIS 660-138163/4		06/06/2013 12:56	1	1DF06004.D	DB-5MS 250 (um)
ZZZZZ		06/06/2013 13:19	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 13:42	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 14:04	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 14:27	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 14:50	4		DB-5MS 250 (um)
680-90852-1	CV0305A-CS	06/06/2013 15:12	4	1DF06010.D	DB-5MS 250 (um)
680-90852-2	CV0305B-CS	06/06/2013 15:35	4	1DF06011.D	DB-5MS 250 (um)
680-90852-3	CV0650A-CS	06/06/2013 15:58	1	1DF06012.D	DB-5MS 250 (um)
680-90852-4	CV0650A-CSD	06/06/2013 16:21	1	1DF06013.D	DB-5MS 250 (um)
ZZZZZ		06/06/2013 16:43	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 17:10	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 17:56	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 18:18	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 18:41	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		06/06/2013 19:26	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90852-1SDG No.: 68090852-1Instrument ID: BSMD5973Start Date: 06/09/2013 08:58Analysis Batch Number: 138216End Date: 06/09/2013 22:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/09/2013 08:58	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 09:21	1		DB-5MS 250 (um)
DFTPP 660-138216/2		06/09/2013 09:45	1	1DF09002.D	DB-5MS 250 (um)
CCVIS 660-138216/3		06/09/2013 10:03	1	1DF09003.D	DB-5MS 250 (um)
ZZZZZ		06/09/2013 10:27	1		DB-5MS 250 (um)
MB 660-138015/1-A		06/09/2013 10:49	1	1DF09005.D	DB-5MS 250 (um)
LCS 660-138015/2-A		06/09/2013 11:12	1	1DF09006.D	DB-5MS 250 (um)
ZZZZZ		06/09/2013 11:34	20		DB-5MS 250 (um)
680-90852-12	FM0348B-CS-SP	06/09/2013 11:57	1	1DF09008.D	DB-5MS 250 (um)
680-90852-13	FM0349A-CS-SP	06/09/2013 12:19	4	1DF09009.D	DB-5MS 250 (um)
680-90852-14	FM0349B-CS-SP	06/09/2013 12:42	1	1DF09010.D	DB-5MS 250 (um)
680-90852-16	CV0995A-CS	06/09/2013 13:04	4	1DF09011.D	DB-5MS 250 (um)
680-90852-17	CV1248A-CS	06/09/2013 13:27	4	1DF09012.D	DB-5MS 250 (um)
680-90852-18	CV1248B-CS	06/09/2013 13:50	4	1DF09013.D	DB-5MS 250 (um)
680-90852-19	CV1248B-CSD	06/09/2013 14:12	4	1DF09014.D	DB-5MS 250 (um)
680-90852-20	FM0098A-CS-SP	06/09/2013 14:35	1	1DF09015.D	DB-5MS 250 (um)
680-90852-21	FM0098B-CS-SP	06/09/2013 14:57	1	1DF09016.D	DB-5MS 250 (um)
ZZZZZ		06/09/2013 15:20	1		DB-5MS 250 (um)
680-90852-A-22-B MS		06/09/2013 15:42	1	1DF09018.D	DB-5MS 250 (um)
680-90852-A-22-C MSD		06/09/2013 16:05	1	1DF09019.D	DB-5MS 250 (um)
ZZZZZ		06/09/2013 16:27	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 16:50	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 17:13	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 17:35	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 17:58	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 18:20	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 18:43	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 19:05	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 19:28	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 19:50	4		DB-5MS 250 (um)
ZZZZZ		06/09/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 20:35	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 20:58	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 21:20	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 21:43	1		DB-5MS 250 (um)
ZZZZZ		06/09/2013 22:06	1		DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Batch Number: 137999 Batch Start Date: 06/03/13 13:04 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 06/04/13 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182		
MB 660-137999/1		3546, 8270C LL		15.17 g	1 mL		1 mL		
LCS 660-137999/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-90852-A-1	CV0305A-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-90852-A-2	CV0305B-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-90852-A-3	CV0650A-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-90852-A-4	CV0650A-CSD	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-90852-A-5	CV0650B-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-90852-A-6	CV0696A-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-90852-A-7	CV0696A-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-90852-A-8	CV0696B-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-90852-A-9	FM0322A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-90852-A-9 MS	FM0322A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-90852-A-9 MSD	FM0322A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL		
680-90852-A-10	FM0322B-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-90852-A-11	FM0348A-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Batch Number: 137999 Batch Start Date: 06/03/13 13:04 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 06/04/13 12:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	ryan
Exchange Solvent Lot #	EX-MC CYCL 58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 58
MeCl2/Acetone Lot #	ex-dcm/aceton 85
Microwave Start Time	14:30 6/3/13
Microwave Stop Time	15:05 6/3/13
Na2SO4 Lot Number	EX-NA2S04A 67
Ottawa Sand Lot #	EX-OTTOWA SAND 19
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 182
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Batch Number: 138015 Batch Start Date: 06/04/13 06:47 Batch Analyst: George, AbrahamBatch Method: 3546 Batch End Date: 06/04/13 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00181		
MB 660-138015/1		3546, 8270C LL		15.03 g	1 mL		1 mL		
LCS 660-138015/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL		
680-90852-A-12	FM0348B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-90852-A-13	FM0349A-CS-SP	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-90852-A-14	FM0349B-CS-SP	3546, 8270C LL	T	15.37 g	1 mL		1 mL		
680-90852-A-16	CV0995A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-90852-A-17	CV1248A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-90852-A-18	CV1248B-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-90852-A-19	CV1248B-CSD	3546, 8270C LL	T	15.36 g	1 mL		1 mL		
680-90852-A-20	FM0098A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-90852-A-21	FM0098B-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-90852-A-22 MS		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-90852-A-22 MSD		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1SDG No.: 68090852-1Batch Number: 138015 Batch Start Date: 06/04/13 06:47 Batch Analyst: George, AbrahamBatch Method: 3546 Batch End Date: 06/04/13 17:00

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00083
Balance ID	B001
Batch Comment	none
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	00086
Exchange Solvent Name	DCM/ACETONE
Final Concentrator Volume	1ml mL
MeCL2 Lot #	ID:EX-MC CYCL_00058
MeCl2/Acetone Lot #	ID:DCM/ACETON_00086
Microwave Start Time	08:45 6/4/13
Microwave Stop Time	09:20 6/4/13
MS Lot Number	680-90852-22
Na2SO4 Lot Number	ID:EX-NA2SO4A_00067
Ottawa Sand Lot #	ID:OTTAWA SAND_00020
Person's name who did the prep	ABRAHAM GEORGE
SOP Number	tp-ex-014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	00181
Water Bath ID	Turbo Vap # 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-90852-1

SDG No.: 68090852-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0305A-CS	680-90852-1
CV0305B-CS	680-90852-2
CV0650A-CS	680-90852-3
CV0650A-CSD	680-90852-4
CV0650B-CS	680-90852-5
CV0696A-CS	680-90852-6
CV0696A-CSD	680-90852-7
CV0696B-CS	680-90852-8
FM0322A-CS-SP	680-90852-9
FM0322B-CS-SP	680-90852-10
FM0348A-CS-SP	680-90852-11
FM0348B-CS-SP	680-90852-12
FM0349A-CS-SP	680-90852-13
FM0349B-CS-SP	680-90852-14
CV0995A-CS	680-90852-16
CV1248A-CS	680-90852-17
CV1248B-CS	680-90852-18
CV1248B-CSD	680-90852-19
FM0098A-CS-SP	680-90852-20
FM0098B-CS-SP	680-90852-21

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90852-1  
SDG Number: 68090852-1  
Matrix: Solid Instrument ID: Moisture  
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90852-1  
SDG Number: 68090852-1  
Matrix: Solid Instrument ID: Moisture  
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90852-1  
SDG Number: 68090852-1  
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: 680-90852-1  
SDG Number: 68090852-1  
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.: 680-90852-1

SDG No.: 68090852-1

Instrument ID: Moisture Method: Moisture

Start Date: 06/03/2013 06:25 End Date: 06/03/2013 08:39

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCSD 660-137982/22	1	T	06:25	X															
LCS 660-137982/1	1	T	06:27	X															
ZZZZZZ			06:30																
ZZZZZZ			06:33																
ZZZZZZ			06:38																
ZZZZZZ			06:39																
ZZZZZZ			06:43																
ZZZZZZ			06:51																
ZZZZZZ			06:59																
ZZZZZZ			07:00																
ZZZZZZ			07:05																
ZZZZZZ			07:07																
ZZZZZZ			07:12																
ZZZZZZ			07:16																
680-90852-10	1	T	07:30	X															
680-90852-7	1	T	07:37	X															
ZZZZZZ			07:41																
680-90852-21	1	T	08:02	X															
ZZZZZZ			08:04																
ZZZZZZ			08:16																
ZZZZZZ			08:21																
680-90852-8	1	T	08:39	X															

Prep Types  
T = Total/NA

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Instrument ID: Moisture Method: Moisture

Start Date: 06/03/2013 08:49 End Date: 06/03/2013 12:43

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCS 660-137998/1	1	T	08:49	X															
LCSD 660-137998/22	1	T	08:49	X															
ZZZZZZ			09:23																
ZZZZZZ			09:24																
ZZZZZZ			09:40																
ZZZZZZ			09:43																
ZZZZZZ			09:50																
ZZZZZZ			10:08																
ZZZZZZ			10:14																
ZZZZZZ			10:35																
680-90852-5	1	T	10:40	X															
ZZZZZZ			10:44																
ZZZZZZ			11:00																
ZZZZZZ			11:00																
ZZZZZZ			11:31																
ZZZZZZ			11:35																
ZZZZZZ			11:40																
ZZZZZZ			11:58																
ZZZZZZ			11:59																
ZZZZZZ			12:10																
ZZZZZZ			12:25																
ZZZZZZ			12:43																

Prep Types  
T = Total/NA



13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/03/2013 06:43 End Date: 06/03/2013 06:43

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
ZZZZZZ			06:43																
680-90852-1	1	T	06:43	X															
680-90852-4	1	T	06:43	X															
680-90852-20	1	T	06:43	X															
ZZZZZZ			06:43																
ZZZZZZ			06:43																
680-90852-17	1	T	06:43	X															
ZZZZZZ			06:43																
680-90852-14	1	T	06:43	X															
ZZZZZZ			06:43																
680-90852-18	1	T	06:43	X															
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																
ZZZZZZ			06:43																

Prep Types  
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Batch Number: 137974 Batch Start Date: 06/03/13 06:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-90852-A-16	CV0995A-CS	Moisture	T	19	0 g	4.52 g	2.83 g		
680-90852-A-2	CV0305B-CS	Moisture	T	20	0 g	4.43 g	2.99 g		
680-90852-A-3	CV0650A-CS	Moisture	T	21	0 g	4.44 g	3.76 g		
680-90852-A-6	CV0696A-CS	Moisture	T	22	0 g	4.39 g	3.66 g		
680-90852-A-9	FM0322A-CS-SP	Moisture	T	23	0 g	4.36 g	4.00 g		
680-90852-A-9	FM0322A-CS-SP	Moisture	T	23	0 g	4.36 g	4.00 g		
MS									
680-90852-A-9	FM0322A-CS-SP	Moisture	T	23	0 g	4.36 g	4.00 g		
MSD									
680-90852-A-11	FM0348A-CS-SP	Moisture	T	24	0 g	4.54 g	3.97 g		
680-90852-A-12	FM0348B-CS-SP	Moisture	T	25	0 g	4.78 g	3.99 g		
680-90852-A-13	FM0349A-CS-SP	Moisture	T	33	0 g	4.46 g	3.39 g		
680-90852-A-19	CV1248B-CSD	Moisture	T	35	0 g	4.43 g	3.47 g		
680-90852-A-22		Moisture	T	36	0 g	4.64 g	3.80 g		
MS									
680-90852-A-22		Moisture	T	36	0 g	4.64 g	3.80 g		
MSD									
680-90852-A-1	CV0305A-CS	Moisture	T	40	0 g	4.87 g	3.77 g		
680-90852-A-4	CV0650A-CSD	Moisture	T	41	0 g	4.29 g	3.66 g		
680-90852-A-20	FM0098A-CS-SP	Moisture	T	42	0 g	4.98 g	4.01 g		
680-90852-A-17	CV1248A-CS	Moisture	T	45	0 g	5.08 g	4.50 g		
680-90852-A-14	FM0349B-CS-SP	Moisture	T	47	0 g	4.57 g	3.81 g		
680-90852-A-18	CV1248B-CS	Moisture	T	49	0 g	4.88 g	3.78 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	6.36.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Batch Number: 137982 Batch Start Date: 06/03/13 06:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137982/1		Moisture		0 g	10.012 g	9.014 g			
680-90852-A-7	CV0696A-CSD	Moisture	T	0 g	4.868 g	4.011 g			
680-90852-A-8	CV0696B-CS	Moisture	T	0 g	4.365 g	3.408 g			
680-90852-A-21	FM0098B-CS-SP	Moisture	T	0 g	4.527 g	3.679 g			
680-90852-A-10	FM0322B-CS-SP	Moisture	T	0 g	4.425 g	3.841 g			
LCSD 660-137982/22		Moisture		0 g	10.022 g	9.01 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90852-1

SDG No.: 68090852-1

Batch Number: 137998 Batch Start Date: 06/03/13 08:49 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-137998/1		Moisture		0 g	10.03 g	9.023 g			
680-90852-A-5	CV0650B-CS	Moisture	T	0 g	4.44 g	3.61 g			
LCSD 660-137998/22		Moisture		0 g	10.021 g	9.015 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

# **Shipping and Receiving Documents**



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
Tampa

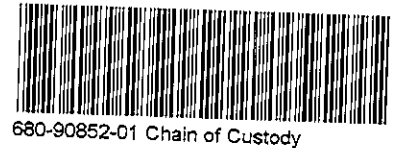
Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005 FR-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harver</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____

**(b) (6)**

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (✓) OR UNLAB (✓) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
					<i>LL PAH</i>	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
					<i>PCBs Metals</i>	10 Calendar Days	
					<b>PRESERVATIVE</b>	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (✓) OR UNLAB (✓) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12			
<i>5-28-13</i>	<i>1900</i>	<i>CV0305A-CS</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1910</i>	<i>CV0305B-CS</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1320</i>	<i>CV0650A-CS</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1320</i>	<i>CV0650A-CSD</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1330</i>	<i>CV0650B-CSD</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1240</i>	<i>CV0696A-CS</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1240</i>	<i>CV0696A-CSD</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1250</i>	<i>CV0696B-CS</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1336</i>	<i>FM0322A-CS-SP</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
	<i>1344</i>	<i>FM0322B-CS-SP</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1428</i>	<i>FM0348A-CS-SP</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																
	<i>1434</i>	<i>FM0348B-CS-SP</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-30-13</i>	TIME <i>1000</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>6-3-13</i>	TIME <i>1715</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>06/04/13</i>	TIME <i>0655</i>

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/31/13</i>	TIME <i>0853</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-90852</i>	LABORATORY REMARKS <i>S.T.C. C107</i>	<i>2.2°C</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location  
*Test Am Tampa*

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-135G</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>4</i>
--	------------------------------------	---------------------------------------	-------------	-------------------	------------------	----------------

TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
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**(b) (6)**

CLIENT (SITE) NAME	CLIENT PHONE	CLIENT FAX	AQUEOUS (WATER)	SOLID OR SEMISOLID	PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
--------------------	--------------	------------	-----------------	--------------------	--------------	--	----------------

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS								
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED																		
<i>5-28-13</i>	<i>1454</i>	<i>FM 0349A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>1507</i>	<i>FM0349B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>1336</i>	<i>FM0322A-CS-SP (sieve)</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
<i>5-29-13</i>	<i>1030</i>	<i>CV 0995A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>																		
	<i>0835</i>	<i>CV 1248A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>																		
	<i>0845</i>	<i>CV 1248B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>0845</i>	<i>CV 1248B-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>0901</i>	<i>FM 0098A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>0912</i>	<i>FM 0098B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>0923</i>	<i>FM 0098C-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>0937</i>	<i>FM 0098D-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			
	<i>1032</i>	<i>HP 0175A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>																			



680-90852-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-30-13</i>	TIME <i>1600</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>6-3-13</i>	TIME <i>1715</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Carol McHulley</i>	DATE <i>5/31/13</i>	TIME <i>0853</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-90852</i>	LABORATORY REMARKS	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

SDG Number: 68090852-1

Login Number: 90852

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

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: 680-90852-1

SDG Number: 68090852-1

**Login Number: 90852**  
**List Number: 1**  
**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**  
**List Creation: 05/31/13 05:45 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404  
Tel: (912)354-7858

TestAmerica Job ID: 680-90852-1

TestAmerica Sample Delivery Group: 68090852-1  
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:  
6/12/2013 6:26:16 PM

Bernard Kirkland, Project Manager I  
(912)354-7858 e.3238  
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Designee for

Lisa Harvey, Project Manager II  
[lisa.harvey@testamericainc.com](mailto:lisa.harvey@testamericainc.com)

### LINKS

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results through  
**TotalAccess**

Have a Question?



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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

**Job ID: 680-90852-1**

**Laboratory: TestAmerica Savannah**

**Narrative**

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-90852-1**

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 05/31/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CV0650B-CS (680-90852-5). The container labels list CV0650B-CS. The COC lists CV0650B-CSD. Client confirmed sample as CV0650B-CS.

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

Samples CV0305A-CS (680-90852-1), CV0305B-CS (680-90852-2), CV0650A-CS (680-90852-3), CV0650A-CSD (680-90852-4), CV0650B CS (680 90852 5), CV0696A CS (680 90852 6), CV0696A CSD (680 90852 7), CV0696B CS (680-90852 8), FM0322A CS-SP (680-90852-9), FM0322B-CS-SP (680-90852-10), FM0348A-CS-SP (680-90852-11), FM0348B-CS-SP (680-90852-12), FM0349A-CS-SP (680-90852-13), FM0349B-CS-SP (680-90852-14), CV0995A-CS (680-90852-16), CV1248A-CS (680-90852-17), CV1248B-CS (680-90852-18), CV1248B-CSD (680-90852-19), FM0098A-CS-SP (680-90852-20) and FM0098B-CS-SP (680-90852-21) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/03/2013 and 06/04/2013 and analyzed on 06/05/2013, 06/06/2013 and 06/09/2013.

Samples CV0305A-CS (680-90852-1)[4X], CV0305B-CS (680-90852-2)[4X], FM0348A-CS-SP (680-90852-11)[4X], FM0349A-CS-SP (680-90852-13)[4X], CV0995A-CS (680-90852-16)[4X], CV1248A-CS (680-90852-17)[4X], CV1248B-CS (680-90852-18)[4X] and CV1248B-CSD (680-90852-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV0650A-CS (680-90852-3).

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample FM0322A-CS-SPMS (680-90852-9) in batch 660-138101 and sample 680-90852-22 in batch 660-138216.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

# Sample Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90852-1	CV0305A-CS	Solid	05/28/13 14:00	05/31/13 08:53
680-90852-2	CV0305B-CS	Solid	05/28/13 14:10	05/31/13 08:53
680-90852-3	CV0650A-CS	Solid	05/28/13 13:20	05/31/13 08:53
680-90852-4	CV0650A-CSD	Solid	05/28/13 13:20	05/31/13 08:53
680-90852-5	CV0650B-CS	Solid	05/28/13 13:30	05/31/13 08:53
680-90852-6	CV0696A-CS	Solid	05/28/13 12:40	05/31/13 08:53
680-90852-7	CV0696A-CSD	Solid	05/28/13 12:40	05/31/13 08:53
680-90852-8	CV0696B-CS	Solid	05/28/13 12:50	05/31/13 08:53
680-90852-9	FM0322A-CS-SP	Solid	05/28/13 13:36	05/31/13 08:53
680-90852-10	FM0322B-CS-SP	Solid	05/28/13 13:44	05/31/13 08:53
680-90852-11	FM0348A-CS-SP	Solid	05/28/13 14:28	05/31/13 08:53
680-90852-12	FM0348B-CS-SP	Solid	05/28/13 14:34	05/31/13 08:53
680-90852-13	FM0349A-CS-SP	Solid	05/28/13 14:54	05/31/13 08:53
680-90852-14	FM0349B-CS-SP	Solid	05/28/13 15:07	05/31/13 08:53
680-90852-16	CV0995A-CS	Solid	05/29/13 10:30	05/31/13 08:53
680-90852-17	CV1248A-CS	Solid	05/29/13 08:35	05/31/13 08:53
680-90852-18	CV1248B-CS	Solid	05/29/13 08:45	05/31/13 08:53
680-90852-19	CV1248B-CSD	Solid	05/29/13 08:45	05/31/13 08:53
680-90852-20	FM0098A-CS-SP	Solid	05/29/13 09:01	05/31/13 08:53
680-90852-21	FM0098B-CS-SP	Solid	05/29/13 09:12	05/31/13 08:53

# Method Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

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: 680-90852-1  
SDG: 68090852-1

### 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.
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
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: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0305A-CS**

**Lab Sample ID: 680-90852-1**

Date Collected: 05/28/13 14:00

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	510	100	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Acenaphthylene	76	J	200	25	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Anthracene	390		43	21	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Benzo[a]anthracene	1000		41	20	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Benzo[a]pyrene	950		53	27	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Benzo[b]fluoranthene	1400		62	31	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Benzo[g,h,i]perylene	580		100	22	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Benzo[k]fluoranthene	580		41	18	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Chrysene	1200		46	23	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Dibenz(a,h)anthracene	220		100	21	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Fluoranthene	2200		100	20	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Fluorene	170		100	21	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Indeno[1,2,3-cd]pyrene	570		100	36	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
1-Methylnaphthalene	1000		200	22	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
2-Methylnaphthalene	1300		200	36	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Naphthalene	700		200	22	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Phenanthrene	2000		41	20	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4
Pyrene	1700		100	19	ug/Kg	☼	06/03/13 13:04	06/06/13 15:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	06/03/13 13:04	06/06/13 15:12	4

**Client Sample ID: CV0305B-CS**

**Lab Sample ID: 680-90852-2**

Date Collected: 05/28/13 14:10

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 67.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300		590	120	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Acenaphthylene	310		240	30	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Anthracene	3000		50	25	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Benzo[a]anthracene	6400		47	23	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Benzo[a]pyrene	6200		61	31	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Benzo[b]fluoranthene	9600		72	36	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Benzo[g,h,i]perylene	3400		120	26	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Benzo[k]fluoranthene	3100		47	21	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Chrysene	6800		53	27	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Dibenz(a,h)anthracene	1100		120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Fluoranthene	15000		120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Fluorene	1200		120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Indeno[1,2,3-cd]pyrene	3500		120	42	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
1-Methylnaphthalene	1500		240	26	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
2-Methylnaphthalene	1600		240	42	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Naphthalene	1200		240	26	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Phenanthrene	11000		47	23	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4
Pyrene	11000		120	22	ug/Kg	☼	06/03/13 13:04	06/06/13 15:35	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130	06/03/13 13:04	06/06/13 15:35	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0650A-CS**

**Lab Sample ID: 680-90852-3**

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Acenaphthylene</b>	<b>130</b>		47	5.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Anthracene</b>	<b>53</b>		10	5.0	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[a]anthracene</b>	<b>120</b>		9.5	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[a]pyrene</b>	<b>98</b>		12	6.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[b]fluoranthene</b>	<b>220</b>		14	7.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[g,h,i]perylene</b>	<b>77</b>		24	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Benzo[k]fluoranthene</b>	<b>49</b>		9.5	4.3	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Chrysene</b>	<b>250</b>		11	5.3	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Dibenz(a,h)anthracene</b>	<b>32</b>		24	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Fluoranthene</b>	<b>280</b>		24	4.7	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Fluorene</b>	<b>46</b>		24	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>70</b>		24	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>1-Methylnaphthalene</b>	<b>210</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>2-Methylnaphthalene</b>	<b>270</b>		47	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Naphthalene</b>	<b>660</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Phenanthrene</b>	<b>380</b>		9.5	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	1
<b>Pyrene</b>	<b>210</b>		24	4.4	ug/Kg	☼	06/03/13 13:04	06/06/13 15:58	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	28	X	30 - 130				06/03/13 13:04	06/06/13 15:58	1

**Client Sample ID: CV0650A-CSD**

**Lab Sample ID: 680-90852-4**

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Acenaphthylene</b>	<b>250</b>		47	5.9	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Anthracene</b>	<b>100</b>		9.9	4.9	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[a]anthracene</b>	<b>230</b>		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[a]pyrene</b>	<b>210</b>		12	6.1	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[b]fluoranthene</b>	<b>470</b>		14	7.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[g,h,i]perylene</b>	<b>150</b>		24	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Benzo[k]fluoranthene</b>	<b>110</b>		9.4	4.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Chrysene</b>	<b>460</b>		11	5.3	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Dibenz(a,h)anthracene</b>	<b>55</b>		24	4.8	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Fluoranthene</b>	<b>500</b>		24	4.7	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Fluorene</b>	<b>72</b>		24	4.8	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b>		24	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>1-Methylnaphthalene</b>	<b>310</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>2-Methylnaphthalene</b>	<b>400</b>		47	8.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Naphthalene</b>	<b>900</b>		47	5.2	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Phenanthrene</b>	<b>650</b>		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	1
<b>Pyrene</b>	<b>380</b>		24	4.4	ug/Kg	☼	06/03/13 13:04	06/06/13 16:21	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	54		30 - 130				06/03/13 13:04	06/06/13 16:21	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0650B-CS**

**Lab Sample ID: 680-90852-5**

Date Collected: 05/28/13 13:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58	J	120	24	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Acenaphthylene	460		49	6.1	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Anthracene	250		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[a]anthracene	700		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[a]pyrene	850		13	6.3	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[b]fluoranthene	1800		15	7.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[g,h,i]perylene	580		24	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Benzo[k]fluoranthene	450		9.7	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Chrysene	1300		11	5.5	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Dibenz(a,h)anthracene	190		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Fluoranthene	2000		24	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Fluorene	120		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Indeno[1,2,3-cd]pyrene	550		24	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
1-Methylnaphthalene	420		49	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
2-Methylnaphthalene	540		49	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Naphthalene	2600		49	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Phenanthrene	1800		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
Pyrene	1400		24	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 21:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	69		30 - 130				06/03/13 13:04	06/05/13 21:41	1

**Client Sample ID: CV0696A-CS**

**Lab Sample ID: 680-90852-6**

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Acenaphthylene	39	J	47	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Anthracene	65		9.9	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[a]anthracene	210		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[a]pyrene	230		12	6.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[b]fluoranthene	440		14	7.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[g,h,i]perylene	150		23	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Benzo[k]fluoranthene	140		9.4	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Chrysene	350		11	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Dibenz(a,h)anthracene	53		23	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Fluoranthene	430		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Fluorene	30		23	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Indeno[1,2,3-cd]pyrene	140		23	8.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
1-Methylnaphthalene	180		47	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
2-Methylnaphthalene	260		47	8.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Naphthalene	210		47	5.2	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Phenanthrene	400		9.4	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	1
Pyrene	330		23	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:04	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				06/03/13 13:04	06/05/13 22:04	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0696A-CSD**

**Lab Sample ID: 680-90852-7**

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Acenaphthylene	29	J	48	6.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Anthracene	76		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[a]anthracene	250		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[a]pyrene	250		13	6.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[b]fluoranthene	480		15	7.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[g,h,i]perylene	140		24	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Benzo[k]fluoranthene	170		9.7	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Chrysene	400		11	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Dibenz(a,h)anthracene	52		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Fluoranthene	560		24	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Fluorene	36		24	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Indeno[1,2,3-cd]pyrene	130		24	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
1-Methylnaphthalene	170		48	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
2-Methylnaphthalene	250		48	8.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Naphthalene	200		48	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Phenanthrene	440		9.7	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	1
Pyrene	400		24	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 22:27	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	68		30 - 130				06/03/13 13:04	06/05/13 22:27	1

**Client Sample ID: CV0696B-CS**

**Lab Sample ID: 680-90852-8**

Date Collected: 05/28/13 12:50

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Acenaphthylene	16	J	51	6.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Anthracene	26		11	5.4	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[a]anthracene	83		10	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[a]pyrene	98		13	6.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[b]fluoranthene	190		16	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[g,h,i]perylene	63		26	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Benzo[k]fluoranthene	53		10	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Chrysene	180		12	5.8	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Dibenz(a,h)anthracene	28		26	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Fluoranthene	150		26	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Fluorene	15	J	26	5.3	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Indeno[1,2,3-cd]pyrene	64		26	9.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
1-Methylnaphthalene	110		51	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
2-Methylnaphthalene	160		51	9.1	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Naphthalene	170		51	5.6	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Phenanthrene	200		10	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	1
Pyrene	110		26	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 22:49	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	60		30 - 130				06/03/13 13:04	06/05/13 22:49	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0322A-CS-SP**

**Lab Sample ID: 680-90852-9**

Date Collected: 05/28/13 13:36

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 91.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Acenaphthylene	11	J	44	5.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Anthracene	14		9.2	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[a]anthracene	63		8.7	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[a]pyrene	59	F	11	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[b]fluoranthene	100		13	6.7	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[g,h,i]perylene	90		22	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Benzo[k]fluoranthene	41		8.7	3.9	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Chrysene	110		9.8	4.9	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Dibenz(a,h)anthracene	18	J	22	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Fluoranthene	95		22	4.4	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Fluorene	11	J	22	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Indeno[1,2,3-cd]pyrene	47		22	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
1-Methylnaphthalene	65		44	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
2-Methylnaphthalene	120		44	7.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Naphthalene	64		44	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Phenanthrene	110		8.7	4.3	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	1
Pyrene	86		22	4.0	ug/Kg	☼	06/03/13 13:04	06/05/13 19:49	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	55		30 - 130				06/03/13 13:04	06/05/13 19:49	1

**Client Sample ID: FM0322B-CS-SP**

**Lab Sample ID: 680-90852-10**

Date Collected: 05/28/13 13:44

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Acenaphthylene	23	J	46	5.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Anthracene	38		9.6	4.8	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[a]anthracene	130		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[a]pyrene	96		12	5.9	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[b]fluoranthene	180		14	7.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[g,h,i]perylene	110		23	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Benzo[k]fluoranthene	40		9.1	4.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Chrysene	200		10	5.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Dibenz(a,h)anthracene	29		23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Fluoranthene	160		23	4.6	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Fluorene	18	J	23	4.7	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Indeno[1,2,3-cd]pyrene	50		23	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
1-Methylnaphthalene	340		46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
2-Methylnaphthalene	510		46	8.1	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Naphthalene	110		46	5.0	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Phenanthrene	570		9.1	4.5	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
Pyrene	160		23	4.2	ug/Kg	☼	06/03/13 13:04	06/05/13 23:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	56		30 - 130				06/03/13 13:04	06/05/13 23:12	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0348A-CS-SP**

**Lab Sample ID: 680-90852-11**

Date Collected: 05/28/13 14:28

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	91	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Acenaphthylene</b>	<b>280</b>		180	23	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Anthracene</b>	<b>390</b>		38	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[a]anthracene</b>	<b>750</b>		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[a]pyrene</b>	<b>810</b>		48	24	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[b]fluoranthene</b>	<b>1400</b>		56	28	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[g,h,i]perylene</b>	<b>370</b>		91	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Benzo[k]fluoranthene</b>	<b>540</b>		37	16	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Chrysene</b>	<b>910</b>		41	21	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Dibenz(a,h)anthracene</b>	<b>150</b>		91	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Fluoranthene</b>	<b>1700</b>		91	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Fluorene</b>	<b>79</b>	J	91	19	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>410</b>		91	32	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>1-Methylnaphthalene</b>	<b>140</b>	J	180	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>2-Methylnaphthalene</b>	<b>170</b>	J	180	32	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Naphthalene</b>	<b>170</b>	J	180	20	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Phenanthrene</b>	<b>1100</b>		37	18	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	4
<b>Pyrene</b>	<b>1200</b>		91	17	ug/Kg	☼	06/03/13 13:04	06/05/13 23:34	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	79		30 - 130				06/03/13 13:04	06/05/13 23:34	4

**Client Sample ID: FM0348B-CS-SP**

**Lab Sample ID: 680-90852-12**

Date Collected: 05/28/13 14:34

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.5

**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	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Acenaphthylene</b>	<b>39</b>	J	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Anthracene</b>	<b>48</b>		10	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[a]anthracene</b>	<b>180</b>		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[a]pyrene</b>	<b>190</b>		12	6.2	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[b]fluoranthene</b>	<b>300</b>		15	7.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[g,h,i]perylene</b>	<b>170</b>		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Benzo[k]fluoranthene</b>	<b>110</b>		9.6	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Chrysene</b>	<b>250</b>		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Dibenz(a,h)anthracene</b>	<b>52</b>		24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Fluoranthene</b>	<b>330</b>		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Fluorene</b>	<b>15</b>	J	24	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>150</b>		24	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>1-Methylnaphthalene</b>	<b>110</b>		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>2-Methylnaphthalene</b>	<b>100</b>		48	8.5	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Naphthalene</b>	<b>79</b>		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Phenanthrene</b>	<b>240</b>		9.6	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Pyrene</b>	<b>280</b>		24	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 11:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	79		30 - 130				06/04/13 06:47	06/09/13 11:57	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0349A-CS-SP**

**Lab Sample ID: 680-90852-13**

Date Collected: 05/28/13 14:54

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Acenaphthylene</b>	<b>35</b>	<b>J</b>	210	26	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Anthracene</b>	<b>47</b>		44	22	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[a]anthracene</b>	<b>210</b>		42	20	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[a]pyrene</b>	<b>240</b>		54	27	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[b]fluoranthene</b>	<b>350</b>		63	32	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[g,h,i]perylene</b>	<b>190</b>		100	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Benzo[k]fluoranthene</b>	<b>120</b>		42	19	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Chrysene</b>	<b>280</b>		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Dibenz(a,h)anthracene</b>	<b>75</b>	<b>J</b>	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Fluoranthene</b>	<b>380</b>		100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
Fluorene	100	U	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>210</b>		100	37	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>1-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	210	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>2-Methylnaphthalene</b>	<b>190</b>	<b>J</b>	210	37	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Naphthalene</b>	<b>140</b>	<b>J</b>	210	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Phenanthrene</b>	<b>280</b>		42	20	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	4
<b>Pyrene</b>	<b>320</b>		100	19	ug/Kg	☼	06/04/13 06:47	06/09/13 12:19	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	62		30 - 130				06/04/13 06:47	06/09/13 12:19	4

**Client Sample ID: FM0349B-CS-SP**

**Lab Sample ID: 680-90852-14**

Date Collected: 05/28/13 15:07

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>45</b>	<b>J</b>	120	23	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Acenaphthylene</b>	<b>28</b>	<b>J</b>	47	5.9	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Anthracene</b>	<b>110</b>		9.8	4.9	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[a]anthracene</b>	<b>310</b>		9.4	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[a]pyrene</b>	<b>280</b>		12	6.1	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[b]fluoranthene</b>	<b>420</b>		14	7.1	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[g,h,i]perylene</b>	<b>200</b>		23	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Benzo[k]fluoranthene</b>	<b>170</b>		9.4	4.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Chrysene</b>	<b>330</b>		11	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Dibenz(a,h)anthracene</b>	<b>64</b>		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Fluoranthene</b>	<b>690</b>		23	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Fluorene</b>	<b>49</b>		23	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190</b>		23	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>1-Methylnaphthalene</b>	<b>93</b>		47	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>2-Methylnaphthalene</b>	<b>100</b>		47	8.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Naphthalene</b>	<b>77</b>		47	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Phenanthrene</b>	<b>500</b>		9.4	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	1
<b>Pyrene</b>	<b>500</b>		23	4.3	ug/Kg	☼	06/04/13 06:47	06/09/13 12:42	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	71		30 - 130				06/04/13 06:47	06/09/13 12:42	1

TestAmerica Savannah



# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV0995A-CS**

**Lab Sample ID: 680-90852-16**

Date Collected: 05/29/13 10:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 62.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	640	U	640	130	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Acenaphthylene</b>	<b>100</b>	<b>J</b>	260	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Anthracene</b>	<b>160</b>		54	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[a]anthracene</b>	<b>360</b>		51	25	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[a]pyrene</b>	<b>270</b>		66	33	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[b]fluoranthene</b>	<b>500</b>		78	39	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[g,h,i]perylene</b>	<b>200</b>		130	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Benzo[k]fluoranthene</b>	<b>130</b>		51	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Chrysene</b>	<b>570</b>		57	29	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Dibenz(a,h)anthracene</b>	<b>110</b>	<b>J</b>	130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Fluoranthene</b>	<b>580</b>		130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Fluorene</b>	<b>80</b>	<b>J</b>	130	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>210</b>		130	45	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>1-Methylnaphthalene</b>	<b>1200</b>		260	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>2-Methylnaphthalene</b>	<b>1400</b>		260	45	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Naphthalene</b>	<b>940</b>		260	28	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Phenanthrene</b>	<b>1000</b>		51	25	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	4
<b>Pyrene</b>	<b>460</b>		130	24	ug/Kg	☼	06/04/13 06:47	06/09/13 13:04	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	55		30 - 130				06/04/13 06:47	06/09/13 13:04	4

**Client Sample ID: CV1248A-CS**

**Lab Sample ID: 680-90852-17**

Date Collected: 05/29/13 08:35

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Acenaphthylene</b>	<b>52</b>	<b>J</b>	180	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Anthracene</b>	<b>200</b>		38	19	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[a]anthracene</b>	<b>520</b>		36	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[a]pyrene</b>	<b>490</b>		47	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[b]fluoranthene</b>	<b>770</b>		55	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[g,h,i]perylene</b>	<b>390</b>		90	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Benzo[k]fluoranthene</b>	<b>270</b>		36	16	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Chrysene</b>	<b>590</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Dibenz(a,h)anthracene</b>	<b>130</b>		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Fluoranthene</b>	<b>1000</b>		90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Fluorene</b>	<b>72</b>	<b>J</b>	90	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		90	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>1-Methylnaphthalene</b>	<b>220</b>		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>2-Methylnaphthalene</b>	<b>280</b>		180	32	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Naphthalene</b>	<b>190</b>		180	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Phenanthrene</b>	<b>890</b>		36	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	4
<b>Pyrene</b>	<b>800</b>		90	17	ug/Kg	☼	06/04/13 06:47	06/09/13 13:27	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	82		30 - 130				06/04/13 06:47	06/09/13 13:27	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: CV1248B-CS**

**Lab Sample ID: 680-90852-18**

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Acenaphthylene</b>	<b>160</b>	<b>J</b>	200	26	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Anthracene</b>	<b>310</b>		43	22	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[a]anthracene</b>	<b>630</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[a]pyrene</b>	<b>610</b>		53	27	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[b]fluoranthene</b>	<b>1100</b>		63	31	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[g,h,i]perylene</b>	<b>460</b>		100	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Benzo[k]fluoranthene</b>	<b>290</b>		41	18	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Chrysene</b>	<b>830</b>		46	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Dibenz(a,h)anthracene</b>	<b>180</b>		100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Fluoranthene</b>	<b>1100</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Fluorene</b>	<b>94</b>	<b>J</b>	100	21	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>440</b>		100	36	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>1-Methylnaphthalene</b>	<b>410</b>		200	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>2-Methylnaphthalene</b>	<b>450</b>		200	36	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Naphthalene</b>	<b>380</b>		200	23	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Phenanthrene</b>	<b>1100</b>		41	20	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	4
<b>Pyrene</b>	<b>880</b>		100	19	ug/Kg	☼	06/04/13 06:47	06/09/13 13:50	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	70		30 - 130				06/04/13 06:47	06/09/13 13:50	4

**Client Sample ID: CV1248B-CSD**

**Lab Sample ID: 680-90852-19**

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Acenaphthylene</b>	<b>110</b>	<b>J</b>	200	25	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Anthracene</b>	<b>180</b>		42	21	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[a]anthracene</b>	<b>380</b>		40	19	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[a]pyrene</b>	<b>390</b>		52	26	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[b]fluoranthene</b>	<b>670</b>		61	30	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		100	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Benzo[k]fluoranthene</b>	<b>240</b>		40	18	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Chrysene</b>	<b>500</b>		45	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Dibenz(a,h)anthracene</b>	<b>120</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Fluoranthene</b>	<b>570</b>		100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Fluorene</b>	<b>47</b>	<b>J</b>	100	20	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>300</b>		100	35	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>1-Methylnaphthalene</b>	<b>360</b>		200	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>2-Methylnaphthalene</b>	<b>290</b>		200	35	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Naphthalene</b>	<b>210</b>		200	22	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Phenanthrene</b>	<b>600</b>		40	19	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	4
<b>Pyrene</b>	<b>490</b>		100	18	ug/Kg	☼	06/04/13 06:47	06/09/13 14:12	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	79		30 - 130				06/04/13 06:47	06/09/13 14:12	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

**Client Sample ID: FM0098A-CS-SP**

**Lab Sample ID: 680-90852-20**

Date Collected: 05/29/13 09:01

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 80.5

**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	☼	06/04/13 06:47	06/09/13 14:35	1
Acenaphthylene	40	J	50	6.2	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Anthracene	55		10	5.2	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[a]anthracene	110		9.9	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[a]pyrene	120		13	6.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[b]fluoranthene	290		15	7.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[g,h,i]perylene	82		25	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Benzo[k]fluoranthene	66		9.9	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Chrysene	170		11	5.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Dibenz(a,h)anthracene	33		25	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Fluoranthene	180		25	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Fluorene	13	J	25	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Indeno[1,2,3-cd]pyrene	83		25	8.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
1-Methylnaphthalene	53		50	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
2-Methylnaphthalene	100		50	8.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Naphthalene	96		50	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Phenanthrene	150		9.9	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
Pyrene	140		25	4.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	72		30 - 130				06/04/13 06:47	06/09/13 14:35	1

**Client Sample ID: FM0098B-CS-SP**

**Lab Sample ID: 680-90852-21**

Date Collected: 05/29/13 09:12

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Acenaphthylene	34	J	48	6.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Anthracene	76		10	5.1	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[a]anthracene	170		9.7	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[a]pyrene	170		13	6.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[b]fluoranthene	340		15	7.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[g,h,i]perylene	99		24	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Benzo[k]fluoranthene	99		9.7	4.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Chrysene	250		11	5.4	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Dibenz(a,h)anthracene	41		24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Fluoranthene	280		24	4.8	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Fluorene	15	J	24	5.0	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Indeno[1,2,3-cd]pyrene	110		24	8.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
1-Methylnaphthalene	170		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
2-Methylnaphthalene	250		48	8.6	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Naphthalene	250		48	5.3	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Phenanthrene	270		9.7	4.7	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
Pyrene	220		24	4.5	ug/Kg	☼	06/04/13 06:47	06/09/13 14:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	67		30 - 130				06/04/13 06:47	06/09/13 14:57	1

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

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

**Lab Sample ID: MB 660-137999/1-A**

**Matrix: Solid**

**Analysis Batch: 138101**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 137999**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Acenaphthylene	40	U	40	4.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Fluoranthene	20	U	20	4.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Fluorene	20	U	20	4.1	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Naphthalene	40	U	40	4.4	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		06/03/13 13:04	06/05/13 19:12	1
Pyrene	20	U	20	3.7	ug/Kg		06/03/13 13:04	06/05/13 19:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		30 - 130	06/03/13 13:04	06/05/13 19:12	1

**Lab Sample ID: LCS 660-137999/2-A**

**Matrix: Solid**

**Analysis Batch: 138101**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 137999**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	669	601		ug/Kg		90	39 - 130
Acenaphthylene	669	586		ug/Kg		88	38 - 130
Anthracene	669	562		ug/Kg		84	37 - 130
Benzo[a]anthracene	669	560		ug/Kg		84	40 - 130
Benzo[a]pyrene	669	535		ug/Kg		80	49 - 130
Benzo[b]fluoranthene	669	669		ug/Kg		100	37 - 130
Benzo[g,h,i]perylene	669	598		ug/Kg		89	32 - 130
Benzo[k]fluoranthene	669	541		ug/Kg		81	32 - 130
Chrysene	669	535		ug/Kg		80	41 - 130
Dibenz(a,h)anthracene	669	670		ug/Kg		100	27 - 130
Fluoranthene	669	597		ug/Kg		89	40 - 130
Fluorene	669	582		ug/Kg		87	40 - 130
Indeno[1,2,3-cd]pyrene	669	583		ug/Kg		87	30 - 130
1-Methylnaphthalene	669	546		ug/Kg		82	31 - 130
2-Methylnaphthalene	669	564		ug/Kg		84	33 - 130
Naphthalene	669	454		ug/Kg		68	36 - 130
Phenanthrene	669	534		ug/Kg		80	42 - 130
Pyrene	669	539		ug/Kg		81	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

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

**Lab Sample ID: LCS 660-137999/2-A**  
**Matrix: Solid**  
**Analysis Batch: 138101**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 137999**

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>LCS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	86		30 - 130

**Lab Sample ID: 680-90852-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 138101**

**Client Sample ID: FM0322A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 137999**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	110	U	729	394		ug/Kg	☼	54	39 - 130
Acenaphthylene	11	J	729	419		ug/Kg	☼	56	38 - 130
Anthracene	14		729	417		ug/Kg	☼	55	37 - 130
Benzo[a]anthracene	63		729	429		ug/Kg	☼	50	40 - 130
Benzo[a]pyrene	59	F	729	382	F	ug/Kg	☼	44	49 - 130
Benzo[b]fluoranthene	100		729	519		ug/Kg	☼	57	37 - 130
Benzo[g,h,i]perylene	90		729	425		ug/Kg	☼	46	32 - 130
Benzo[k]fluoranthene	41		729	400		ug/Kg	☼	49	32 - 130
Chrysene	110		729	441		ug/Kg	☼	46	41 - 130
Dibenz(a,h)anthracene	18	J	729	418		ug/Kg	☼	55	27 - 130
Fluoranthene	95		729	467		ug/Kg	☼	51	40 - 130
Fluorene	11	J	729	444		ug/Kg	☼	59	40 - 130
Indeno[1,2,3-cd]pyrene	47		729	373		ug/Kg	☼	45	30 - 130
1-Methylnaphthalene	65		729	565		ug/Kg	☼	69	31 - 130
2-Methylnaphthalene	120		729	517		ug/Kg	☼	54	33 - 130
Naphthalene	64		729	371		ug/Kg	☼	42	36 - 130
Phenanthrene	110		729	540		ug/Kg	☼	59	42 - 130
Pyrene	86		729	482		ug/Kg	☼	54	44 - 130

<i>Surrogate</i>	<i>MS</i> %Recovery	<i>MS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	52		30 - 130

**Lab Sample ID: 680-90852-9 MSD**  
**Matrix: Solid**  
**Analysis Batch: 138101**

**Client Sample ID: FM0322A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 137999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Acenaphthene	110	U	729	399		ug/Kg	☼	55	39 - 130	1	40
Acenaphthylene	11	J	729	442		ug/Kg	☼	59	38 - 130	6	40
Anthracene	14		729	447		ug/Kg	☼	59	37 - 130	7	40
Benzo[a]anthracene	63		729	479		ug/Kg	☼	57	40 - 130	11	40
Benzo[a]pyrene	59	F	729	434		ug/Kg	☼	51	49 - 130	13	40
Benzo[b]fluoranthene	100		729	537		ug/Kg	☼	59	37 - 130	4	40
Benzo[g,h,i]perylene	90		729	487		ug/Kg	☼	54	32 - 130	14	40
Benzo[k]fluoranthene	41		729	461		ug/Kg	☼	58	32 - 130	14	40
Chrysene	110		729	499		ug/Kg	☼	54	41 - 130	12	40
Dibenz(a,h)anthracene	18	J	729	463		ug/Kg	☼	61	27 - 130	10	40
Fluoranthene	95		729	529		ug/Kg	☼	60	40 - 130	12	40
Fluorene	11	J	729	439		ug/Kg	☼	59	40 - 130	1	40
Indeno[1,2,3-cd]pyrene	47		729	413		ug/Kg	☼	50	30 - 130	10	40
1-Methylnaphthalene	65		729	465		ug/Kg	☼	55	31 - 130	19	40

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# QC Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

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

**Lab Sample ID: 680-90852-9 MSD**  
**Matrix: Solid**  
**Analysis Batch: 138101**

**Client Sample ID: FM0322A-CS-SP**  
**Prep Type: Total/NA**  
**Prep Batch: 137999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Methylnaphthalene	120		729	514		ug/Kg	*	54	33 - 130	1	40
Naphthalene	64		729	364		ug/Kg	*	41	36 - 130	2	40
Phenanthrene	110		729	502		ug/Kg	*	54	42 - 130	7	40
Pyrene	86		729	498		ug/Kg	*	56	44 - 130	3	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>				<b>Limits</b>				
<i>o</i> -Terphenyl	58						30 - 130				

**Lab Sample ID: MB 660-138015/1-A**  
**Matrix: Solid**  
**Analysis Batch: 138216**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 138015**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Acenaphthene	100	U	100	20	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Acenaphthylene	40	U	40	5.0	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Anthracene	8.4	U	8.4	4.2	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Chrysene	9.0	U	9.0	4.5	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Fluoranthene	20	U	20	4.0	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Fluorene	20	U	20	4.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Naphthalene	40	U	40	4.4	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
Pyrene	20	U	20	3.7	ug/Kg		06/04/13 06:47	06/09/13 10:49	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB</b>	<b>MB</b>				<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	84						30 - 130	06/04/13 06:47	06/09/13 10:49	1

**Lab Sample ID: LCS 660-138015/2-A**  
**Matrix: Solid**  
**Analysis Batch: 138216**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 138015**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Acenaphthene	665	548		ug/Kg		82	39 - 130
Acenaphthylene	665	587		ug/Kg		88	38 - 130
Anthracene	665	583		ug/Kg		88	37 - 130
Benzo[a]anthracene	665	504		ug/Kg		76	40 - 130
Benzo[a]pyrene	665	511		ug/Kg		77	49 - 130
Benzo[b]fluoranthene	665	567		ug/Kg		85	37 - 130
Benzo[g,h,i]perylene	665	577		ug/Kg		87	32 - 130
Benzo[k]fluoranthene	665	556		ug/Kg		84	32 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

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

Lab Sample ID: LCS 660-138015/2-A

Matrix: Solid

Analysis Batch: 138216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	665	511		ug/Kg		77	41 - 130
Dibenz(a,h)an hracene	665	557		ug/Kg		84	27 - 130
Fluoranthene	665	578		ug/Kg		87	40 - 130
Fluorene	665	593		ug/Kg		89	40 - 130
Indeno[1,2,3-cd]pyrene	665	532		ug/Kg		80	30 - 130
1-Methylnaphthalene	665	537		ug/Kg		81	31 - 130
2-Methylnaphthalene	665	586		ug/Kg		88	33 - 130
Naphthalene	665	552		ug/Kg		83	36 - 130
Phenanthrene	665	560		ug/Kg		84	42 - 130
Pyrene	665	520		ug/Kg		78	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	82		30 - 130

# QC Association Summary

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## GC/MS Semi VOA

### Prep Batch: 137999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-1	CV0305A-CS	Total/NA	Solid	3546	
680-90852-2	CV0305B-CS	Total/NA	Solid	3546	
680-90852-3	CV0650A-CS	Total/NA	Solid	3546	
680-90852-4	CV0650A-CSD	Total/NA	Solid	3546	
680-90852-5	CV0650B-CS	Total/NA	Solid	3546	
680-90852-6	CV0696A-CS	Total/NA	Solid	3546	
680-90852-7	CV0696A-CSD	Total/NA	Solid	3546	
680-90852-8	CV0696B-CS	Total/NA	Solid	3546	
680-90852-9	FM0322A-CS-SP	Total/NA	Solid	3546	
680-90852-9 MS	FM0322A-CS-SP	Total/NA	Solid	3546	
680-90852-9 MSD	FM0322A-CS-SP	Total/NA	Solid	3546	
680-90852-10	FM0322B-CS-SP	Total/NA	Solid	3546	
680-90852-11	FM0348A-CS-SP	Total/NA	Solid	3546	
LCS 660-137999/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137999/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 138015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-12	FM0348B-CS-SP	Total/NA	Solid	3546	
680-90852-13	FM0349A-CS-SP	Total/NA	Solid	3546	
680-90852-14	FM0349B-CS-SP	Total/NA	Solid	3546	
680-90852-16	CV0995A-CS	Total/NA	Solid	3546	
680-90852-17	CV1248A-CS	Total/NA	Solid	3546	
680-90852-18	CV1248B-CS	Total/NA	Solid	3546	
680-90852-19	CV1248B-CSD	Total/NA	Solid	3546	
680-90852-20	FM0098A-CS-SP	Total/NA	Solid	3546	
680-90852-21	FM0098B-CS-SP	Total/NA	Solid	3546	
LCS 660-138015/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-138015/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 138101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-9	FM0322A-CS-SP	Total/NA	Solid	8270C LL	137999
680-90852-9 MS	FM0322A-CS-SP	Total/NA	Solid	8270C LL	137999
680-90852-9 MSD	FM0322A-CS-SP	Total/NA	Solid	8270C LL	137999
LCS 660-137999/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137999
MB 660-137999/1-A	Method Blank	Total/NA	Solid	8270C LL	137999

### Analysis Batch: 138106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-5	CV0650B-CS	Total/NA	Solid	8270C LL	137999
680-90852-6	CV0696A-CS	Total/NA	Solid	8270C LL	137999
680-90852-7	CV0696A-CSD	Total/NA	Solid	8270C LL	137999
680-90852-8	CV0696B-CS	Total/NA	Solid	8270C LL	137999
680-90852-10	FM0322B-CS-SP	Total/NA	Solid	8270C LL	137999
680-90852-11	FM0348A-CS-SP	Total/NA	Solid	8270C LL	137999

### Analysis Batch: 138163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-1	CV0305A-CS	Total/NA	Solid	8270C LL	137999
680-90852-2	CV0305B-CS	Total/NA	Solid	8270C LL	137999

TestAmerica Savannah



# QC Association Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 138163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-3	CV0650A-CS	Total/NA	Solid	8270C LL	137999
680-90852-4	CV0650A-CSD	Total/NA	Solid	8270C LL	137999

### Analysis Batch: 138216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-12	FM0348B-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-13	FM0349A-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-14	FM0349B-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-16	CV0995A-CS	Total/NA	Solid	8270C LL	138015
680-90852-17	CV1248A-CS	Total/NA	Solid	8270C LL	138015
680-90852-18	CV1248B-CS	Total/NA	Solid	8270C LL	138015
680-90852-19	CV1248B-CSD	Total/NA	Solid	8270C LL	138015
680-90852-20	FM0098A-CS-SP	Total/NA	Solid	8270C LL	138015
680-90852-21	FM0098B-CS-SP	Total/NA	Solid	8270C LL	138015
LCS 660-138015/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	138015
MB 660-138015/1-A	Method Blank	Total/NA	Solid	8270C LL	138015

## General Chemistry

### Analysis Batch: 137974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-1	CV0305A-CS	Total/NA	Solid	Moisture	
680-90852-2	CV0305B-CS	Total/NA	Solid	Moisture	
680-90852-3	CV0650A-CS	Total/NA	Solid	Moisture	
680-90852-4	CV0650A-CSD	Total/NA	Solid	Moisture	
680-90852-6	CV0696A-CS	Total/NA	Solid	Moisture	
680-90852-9	FM0322A-CS-SP	Total/NA	Solid	Moisture	
680-90852-9 MS	FM0322A-CS-SP	Total/NA	Solid	Moisture	
680-90852-9 MSD	FM0322A-CS-SP	Total/NA	Solid	Moisture	
680-90852-11	FM0348A-CS-SP	Total/NA	Solid	Moisture	
680-90852-12	FM0348B-CS-SP	Total/NA	Solid	Moisture	
680-90852-13	FM0349A-CS-SP	Total/NA	Solid	Moisture	
680-90852-14	FM0349B-CS-SP	Total/NA	Solid	Moisture	
680-90852-16	CV0995A-CS	Total/NA	Solid	Moisture	
680-90852-17	CV1248A-CS	Total/NA	Solid	Moisture	
680-90852-18	CV1248B-CS	Total/NA	Solid	Moisture	
680-90852-19	CV1248B-CSD	Total/NA	Solid	Moisture	
680-90852-20	FM0098A-CS-SP	Total/NA	Solid	Moisture	

### Analysis Batch: 137982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-7	CV0696A-CSD	Total/NA	Solid	Moisture	
680-90852-8	CV0696B-CS	Total/NA	Solid	Moisture	
680-90852-10	FM0322B-CS-SP	Total/NA	Solid	Moisture	
680-90852-21	FM0098B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-137982/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137982/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

# QC Association Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

## General Chemistry (Continued)

### Analysis Batch: 137998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90852-5	CV0650B-CS	Total/NA	Solid	Moisture	
LCS 660-137998/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-137998/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

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# Lab Chronicle

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## Client Sample ID: CV0305A-CS

Lab Sample ID: 680-90852-1

Date Collected: 05/28/13 14:00

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138163	06/06/13 15:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0305B-CS

Lab Sample ID: 680-90852-2

Date Collected: 05/28/13 14:10

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 67.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138163	06/06/13 15:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0650A-CS

Lab Sample ID: 680-90852-3

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138163	06/06/13 15:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0650A-CSD

Lab Sample ID: 680-90852-4

Date Collected: 05/28/13 13:20

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138163	06/06/13 16:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0650B-CS

Lab Sample ID: 680-90852-5

Date Collected: 05/28/13 13:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 21:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137998	06/03/13 10:40	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## Client Sample ID: CV0696A-CS

Lab Sample ID: 680-90852-6

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 22:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0696A-CSD

Lab Sample ID: 680-90852-7

Date Collected: 05/28/13 12:40

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 22:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 07:37	AG	TAL TAM

## Client Sample ID: CV0696B-CS

Lab Sample ID: 680-90852-8

Date Collected: 05/28/13 12:50

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 22:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 08:39	AG	TAL TAM

## Client Sample ID: FM0322A-CS-SP

Lab Sample ID: 680-90852-9

Date Collected: 05/28/13 13:36

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138101	06/05/13 19:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0322B-CS-SP

Lab Sample ID: 680-90852-10

Date Collected: 05/28/13 13:44

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 23:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 07:30	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## Client Sample ID: FM0348A-CS-SP

Lab Sample ID: 680-90852-11

Date Collected: 05/28/13 14:28

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137999	06/03/13 13:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 23:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0348B-CS-SP

Lab Sample ID: 680-90852-12

Date Collected: 05/28/13 14:34

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 11:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0349A-CS-SP

Lab Sample ID: 680-90852-13

Date Collected: 05/28/13 14:54

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 12:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0349B-CS-SP

Lab Sample ID: 680-90852-14

Date Collected: 05/28/13 15:07

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 12:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV0995A-CS

Lab Sample ID: 680-90852-16

Date Collected: 05/29/13 10:30

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 62.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 13:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## Client Sample ID: CV1248A-CS

Lab Sample ID: 680-90852-17

Date Collected: 05/29/13 08:35

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 13:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV1248B-CS

Lab Sample ID: 680-90852-18

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 13:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: CV1248B-CSD

Lab Sample ID: 680-90852-19

Date Collected: 05/29/13 08:45

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	138216	06/09/13 14:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0098A-CS-SP

Lab Sample ID: 680-90852-20

Date Collected: 05/29/13 09:01

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 14:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137974	06/03/13 06:43	AG	TAL TAM

## Client Sample ID: FM0098B-CS-SP

Lab Sample ID: 680-90852-21

Date Collected: 05/29/13 09:12

Matrix: Solid

Date Received: 05/31/13 08:53

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			138015	06/04/13 06:47	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	138216	06/09/13 14:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137982	06/03/13 08:02	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

Serial Number 64260

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  
*Tampa*

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>200518-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>4</i>
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TAL (LAB) PROJECT MANAGER <i>LISA HEAVEN</i>	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
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**(b) (6)**

COMPOSITE (S) OR UNREP (S) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REMARKS
				<i>22 PAH 200 PAH Metals</i>	

COMPANY CONTRACTING THIS WORK (if applicable)

**PRESERVATIVE**

SAMPLE	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
DATE	TIME		

SAMPLE	SAMPLE IDENTIFICATION	COMPOSITE (S) OR UNREP (S) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
DATE	TIME							
5-28-13	1400					X		
	1710					X		
	1320					X		
	1320					X		
	1330					X		
	1240					X		
	1240					X		
	1250					X		
	1336					X	X	
	1344					X		
	1428					X		
	1434					X		



680-90852-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-30-13</i>	TIME <i>1000</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>6-3-13</i>	TIME <i>1715</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>06/04/13</i>	TIME <i>0655</i>
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Cecil McHulley</i>	DATE <i>5/31/13</i>	TIME <i>0853</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-90852</i>	LABORATORY REMARKS <i>5.7 C cu 07</i>
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## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90852-1

SDG Number: 68090852-1

**Login Number: 90852**

**List Number: 1**

**Creator: Daughtry, Beth**

**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: 680-90852-1

SDG Number: 68090852-1

**Login Number: 90852**

**List Number: 1**

**Creator: Snead, Joshua**

**List Source: TestAmerica Tampa**

**List Creation: 05/31/13 05:45 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

# Certification Summary

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

TestAmerica Job ID: 680-90852-1  
 SDG: 68090852-1

## 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		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13 *
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

## Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

# Certification Summary

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

TestAmerica Job ID: 680-90852-1  
SDG: 68090852-1

## 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
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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