

**Data Validation Checklist  
Semivolatile Organic Analyses**

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

Project No: 15268508.20000  
 Job ID.: 680-88632-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Date(s) Collected: 03/21/2013  
 Date: 04/09/2013  
 Date: 04/15/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

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

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (032013-RB-Bowls+Spoons) was collected during the week of 03/18/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88527-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓			
14. Is a field duplicate associated with this Job?	✓			FM0343A-CS (680-88632-6) and FM0343A-CSD (680-88632-7)	
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>Initial Calibration: 02/22/2013, instrument BSMC5973</li> <li>ICV: 02/22/2013 @ 14:06</li> <li>CCV: 03/27/2013 @ 10:35</li> <li>CCV: 03/28/2013 @ 11:59</li> <li>CCV: 04/01/2013 @ 11:31</li> <li>Initial Calibration: 02/22/2013, instrument BSMD5973</li> <li>ICV: 02/22/2013 @ 14:51</li> <li>CCV: 03/28/2013 @ 14:57</li> </ul>	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)): <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-</li> </ul> </li> </ul>		✓		ICV 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> <li>Chrysene @ -20.6%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 79.5%R</li> <li>Benzo(a)pyrene @ -21.7%D (Lab: <math>\leq 35</math>, Project: <math>\leq 20</math>), 78.5%R</li> </ul> A negative bias is indicated by the ICV percent	J

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>detects               <ul style="list-style-type: none"> <li>o If mean RRF &lt;0.050 (&lt;0.010 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 <math>RF \geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>o If <math>\%D &gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>o If <math>RF &lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>				difference and both analytes were detected in associated samples <sup>2</sup> ; therefore, J-flag detected chrysene and benzo(a)pyrene results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$ .	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			<ul style="list-style-type: none"> <li>• Prep Batch 135800: 680-88592-19 (Batch sample), MS/MSD</li> <li>• Prep Batch 135822: 680-88592-21 (Batch sample), MS/MSD</li> <li>• Prep Batch 135843: 680-88632-10 (CV0090B-CS-SP), MS/MSD</li> </ul>	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD <math>\%R &lt; 10</math>: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD <math>\%R &gt; 10</math> and <math>&lt; \text{LCL}</math>: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD <math>R\% &gt; \text{UCL}</math> (or 140): J-Flag positive results</li> </ul>		✓		CV0090B-CS-SP (680-88632-10): Refer to <b>Attachment C</b> for summary of MS/MSD recoveries that did not meet control limits and recommended flagging.	J
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported</i>		✓		CV0090B-CS-SP (680-88632-10): Refer to <b>Attachment C</b> for summary of MS/MSD RPDs that	J

<sup>2</sup> 680-88632-1 through -3, -10, and -17 through -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p><i>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>				did not meet control limits and recommended flagging.	
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> <li>If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If %R &gt;UCL, then J-flag positive results</li> <li>%R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
<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 consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>	✓				
<p>29. Were lab comments included in report?</p>	✓			Refer to Attachment D (Case Narrative)	

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<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 E</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: 680-88632-1  
SDG: 68088632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-1	CV0697A-CS	Solid	03/21/13 08:25	03/23/13 09:39
680-88632-2	CV0697B-CS	Solid	03/21/13 08:40	03/23/13 09:39
680-88632-3	FM0341A-CS	Solid	03/21/13 11:30	03/23/13 09:39
680-88632-4	FM0341B-CS	Solid	03/21/13 11:45	03/23/13 09:39
680-88632-5	FM0341C-GS	Solid	03/21/13 11:54	03/23/13 09:39
680-88632-6	FM0343A-CS	Solid	03/21/13 10:30	03/23/13 09:39
680-88632-7	FM0343A-CSD	Solid	03/21/13 10:30	03/23/13 09:39
680-88632-8	FM0343B-CS	Solid	03/21/13 10:50	03/23/13 09:39
680-88632-9	CV0090A-CS-SP	Solid	03/21/13 11:23	03/23/13 09:39
680-88632-10	CV0090B-CS-SP	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-11	CV0092A-CS-SP	Solid	03/21/13 10:46	03/23/13 09:39
680-88632-12	CV0092B-CS-SP	Solid	03/21/13 10:55	03/23/13 09:39
680-88632-13	FM0312A-CS-SP	Solid	03/21/13 09:29	03/23/13 09:39
680-88632-14	FM0312B-CS-SP	Solid	03/21/13 09:32	03/23/13 09:39
680-88632-15	FM0312C-CS-SP	Solid	03/21/13 09:51	03/23/13 09:39
680-88632-16	FM0312D-CS-SP	Solid	03/21/13 09:45	03/23/13 09:39
680-88632-17	CV0368A-CS-SP	Solid	03/21/13 08:16	03/23/13 09:39
680-88632-18	CV0368B-CS-SP	Solid	03/21/13 08:32	03/23/13 09:39
680-88632-19	CV0443A-CS-SP	Solid	03/21/13 14:57	03/23/13 09:39
680-88632-20	CV0443B-CS-SP	Solid	03/21/13 14:59	03/23/13 09:39

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



Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0343A-CS (680-88632-6)	RL	FM0343A-CSD (680-88632-7)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	6.8 J	46	U	46	µg/kg	230	NA	6.8	92	None, absolute difference ≤ 2x Avg RL
Anthracene	5.1 J	9.7	5.4 J	9.6	µg/kg	48.25	NA	0.3	19.3	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	30	9.2	29	9.1	µg/kg	45.75	NA	1	18.3	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	28	12	29	12	µg/kg	60	NA	1	24	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	47	14	54	14	µg/kg	70	NA	7	28	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	26	23	24	23	µg/kg	115	NA	2	46	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	15	9.2	18	9.1	µg/kg	45.75	NA	3	18.3	None, absolute difference ≤ 2x Avg RL
Chrysene	51	10	41	10	µg/kg	50	NA	10	20	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	9.3 J	23	7.6 J	23	µg/kg	115	NA	1.7	46	None, absolute difference ≤ 2x Avg RL
Fluoranthene	46	23	41	23	µg/kg	115	NA	5	46	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	18 J	23	21 J	23	µg/kg	115	NA	3	46	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	270	46	15 J	46	µg/kg	230	NA	255	92	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	220	46	21 J	46	µg/kg	230	NA	199	92	J/UJ-flag, absolute difference > 2x Avg RL
Naphthalene	180	46	21 J	46	µg/kg	230	NA	159	92	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	170	9.2	28	9.1	µg/kg	45.75	NA	142	18.3	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	42	23	33	23	µg/kg	115	NA	9	46	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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

**ATTACHMENT C**

**MS/MSD RESULTS**

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CD01016.D  
 Lab ID: 680-88632-10 MS Client ID: CV0090B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	380 J	674	35	39-130	F
Acenaphthylene	852	330	736	48	38-130	
Anthracene	852	1200	936	-36	37-130	F
Benzo[a]anthracene	852	4800	2110	-316	40-130	4
Benzo[a]pyrene	852	4700	2020	-310	49-130	4
Benzo[b]fluoranthene	852	7400	2820	-543	37-130	4
Benzo[g,h,i]perylene	852	3400	1560	-217	32-130	F
Benzo[k]fluoranthene	852	2100	1490	-67	32-130	F
Chrysene	852	4700	2080	-304	41-130	4
Dibenz(a,h)anthracene	852	940	1030	10	27-130	F
Fluoranthene	852	9500	3460	-713	40-130	4
Fluorene	852	390	698	36	40-130	F
Indeno[1,2,3-cd]pyrene	852	2400	1420	-118	30-130	F
1-Methylnaphthalene	852	260	1050	93	31-130	
2-Methylnaphthalene	852	260	920	78	33-130	
Naphthalene	852	480	783	36	36-130	
Phenanthrene	852	4400	2180	-262	42-130	4
Pyrene	852	8000	3030	-586	44-130	4

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CD01017.D  
 Lab ID: 680-88632-10 MSD Client ID: CV0090B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	853	695	37	3	40	39-130	F
Acenaphthylene	853	844	60	14	40	38-130	
Anthracene	853	1160	-10	21	40	37-130	F
Benzo[a]anthracene	853	4010	-93	62	40	40-130	4 F
Benzo[a]pyrene	853	3770	-104	61	40	49-130	4 F
Benzo[b]fluoranthene	853	5430	-236	63	40	37-130	4 F
Benzo[g,h,i]perylene	853	2480	-108	46	40	32-130	F
Benzo[k]fluoranthene	853	2920	101	65	40	32-130	F
Chrysene	853	4100	-66	65	40	41-130	4 F
Dibenz(a,h)anthracene	853	1210	32	17	40	27-130	
Fluoranthene	853	6580	-346	62	40	40-130	4 F
Fluorene	853	724	39	4	40	40-130	F
Indeno[1,2,3-cd]pyrene	853	2460	4	54	40	30-130	F
1-Methylnaphthalene	853	816	65	25	40	31-130	
2-Methylnaphthalene	853	621	43	39	40	33-130	
Naphthalene	853	681	24	14	40	36-130	F
Phenanthrene	853	3080	-156	34	40	42-130	4
Pyrene	853	6020	-235	66	40	44-130	4 F

# Column to be used to flag recovery and RPD values

**ATTACHMENT D**  
**CASE NARRATIVE**

# Case Narrative

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

**Job ID: 680-88632-1**

**Laboratory: TestAmerica Savannah**

Narrative

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-1**

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

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

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

### RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0697A-CS (680-88632-1), CV0697B-CS (680-88632-2), FM0341A-CS (680-88632-3), FM0341B-CS (680-88632-4), FM0341C-GS (680-88632-5), FM0343A-CS (680-88632-6), FM0343A-CSD (680-88632-7), FM0343B-CS (680-88632-8), CV0090A-CS-SP (680-88632-9), CV0090B-CS-SP (680-88632-10), CV0092A-CS-SP (680-88632-11), CV0092B-CS-SP (680-88632-12), FM0312A-CS-SP (680-88632-13), FM0312B-CS-SP (680-88632-14), FM0312C-CS-SP (680-88632-15), FM0312D-CS-SP (680-88632-16), CV0368A-CS-SP (680-88632-17), CV0368B-CS-SP (680-88632-18), CV0443A-CS-SP (680-88632-19) and CV0443B-CS-SP (680-88632-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV0697B-CS (680-88632-2)[4X], FM0341A-CS (680-88632-3)[4X], FM0341B-CS (680-88632-4)[4X], FM0343B-CS (680-88632-8)[4X], CV0090A-CS-SP (680-88632-9)[4X], CV0090B-CS-SP (680-88632-10)[4X], CV0092A-CS-SP (680-88632-11)[4X] and CV0368B-CS-SP (680-88632-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 660-135996. Several analytes also exceeded the rpd limit.

Benzo[b]fluoranthene recovered outside the recovery criteria for the MSD of sample 680-88592-19 in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT E**  
**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0697A-CS**

**Lab Sample ID: 680-88632-1**

Date Collected: 03/21/13 08:25

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Acenaphthylene	16	J	50	6.2	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Anthracene	23		10	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Benzo[a]anthracene	140		9.9	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Benzo[a]pyrene	140	J	13	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Benzo[b]fluoranthene	210		15	7.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Benzo[g,h,i]perylene	120		25	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Benzo[k]fluoranthene	72		9.9	4.5	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Chrysene	180	J	11	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Dibenz(a,h)anthracene	33		25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Fluoranthene	190		25	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Fluorene	18	J	25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Indeno[1,2,3-cd]pyrene	82		25	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
1-Methylnaphthalene	82		50	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
2-Methylnaphthalene	110		50	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Naphthalene	95		50	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Phenanthrene	170		9.9	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
Pyrene	180		25	4.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	86		30 - 130				03/26/13 16:07	03/27/13 18:08	1

**Client Sample ID: CV0697B-CS**

**Lab Sample ID: 680-88632-2**

Date Collected: 03/21/13 08:40

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Anthracene	32	J	41	21	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Benzo[a]anthracene	120		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Benzo[a]pyrene	98	J	51	26	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Benzo[b]fluoranthene	160		60	30	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Benzo[g,h,i]perylene	140		98	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Benzo[k]fluoranthene	130		39	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Chrysene	190	J	44	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Dibenz(a,h)anthracene	58	J	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Fluoranthene	130		98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Fluorene	98	U	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Indeno[1,2,3-cd]pyrene	110		98	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
1-Methylnaphthalene	59	J	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
2-Methylnaphthalene	93	J	200	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Naphthalene	140	J	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Phenanthrene	150		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Pyrene	150		98	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	67		30 - 130				03/26/13 16:07	03/27/13 18:26	4

TestAmerica Savannah

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



# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0341A-CS**

**Lab Sample ID: 680-88632-3**

Date Collected: 03/21/13 11:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Acenaphthylene	200	U	200	25	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Anthracene	26	J	41	21	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Benzo[a]anthracene	190		39	19	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Benzo[a]pyrene	200	J	51	25	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Benzo[b]fluoranthene	290		60	30	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Benzo[g,h,i]perylene	240		98	22	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Benzo[k]fluoranthene	93		39	18	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Chrysene	310	J	44	22	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Dibenz(a,h)anthracene	66	J	98	20	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Fluoranthene	290		98	20	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Fluorene	98	U	98	20	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Indeno[1,2,3-cd]pyrene	130		98	35	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
1-Methylnaphthalene	98	J	200	22	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
2-Methylnaphthalene	96	J	200	35	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Naphthalene	86	J	200	22	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Phenanthrene	180		39	19	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
Pyrene	300		98	18	ug/Kg	☐	03/26/13 16:07	03/27/13 18:44	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	73		30 - 130				03/26/13 16:07	03/27/13 18:44	4

**Client Sample ID: FM0341B-CS**

**Lab Sample ID: 680-88632-4**

Date Collected: 03/21/13 11:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Acenaphthylene	200	U	200	25	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Anthracene	34	J	42	21	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Benzo[a]anthracene	150		40	19	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Benzo[a]pyrene	120		52	26	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Benzo[b]fluoranthene	230		61	30	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Benzo[g,h,i]perylene	110		100	22	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Benzo[k]fluoranthene	61		40	18	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Chrysene	190		45	22	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Dibenz(a,h)anthracene	35	J	100	20	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Fluoranthene	230		100	20	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Fluorene	100	U	100	20	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Indeno[1,2,3-cd]pyrene	82	J	100	35	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
1-Methylnaphthalene	73	J	200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
2-Methylnaphthalene	79	J	200	35	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Naphthalene	63	J	200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Phenanthrene	180		40	19	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
Pyrene	180		100	18	ug/Kg	☐	03/27/13 11:19	03/28/13 17:35	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	60		30 - 130				03/27/13 11:19	03/28/13 17:35	4

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0341C-GS**

**Lab Sample ID: 680-88632-5**

Date Collected: 03/21/13 11:54

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Acenaphthylene	12	J	51	6.4	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Anthracene	17		11	5.3	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Benzo[a]anthracene	88		10	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Benzo[a]pyrene	79		13	6.6	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Benzo[b]fluoranthene	150		16	7.8	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Benzo[g,h,i]perylene	76		25	5.6	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Benzo[k]fluoranthene	44		10	4.6	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Chrysene	120		11	5.7	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Dibenz(a,h)anthracene	22	J	25	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Fluoranthene	140		25	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Fluorene	6.3	J	25	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Indeno[1,2,3-cd]pyrene	55		25	9.0	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
1-Methylnaphthalene	76		51	5.6	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
2-Methylnaphthalene	84		51	9.0	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Naphthalene	61		51	5.6	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Phenanthrene	120		10	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	1
Pyrene	110		25	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 17:57	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	53		30 - 130				03/27/13 11:19	03/28/13 17:57	1

**Client Sample ID: FM0343A-CS**

**Lab Sample ID: 680-88632-6**

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 88.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Acenaphthylene	6.8	J	46	5.8	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Anthracene	5.1	J	9.7	4.8	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Benzo[a]anthracene	30		9.2	4.5	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Benzo[a]pyrene	28		12	6.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Benzo[b]fluoranthene	47		14	7.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Benzo[g,h,i]perylene	26		23	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Benzo[k]fluoranthene	15		9.2	4.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Chrysene	51		10	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Dibenz(a,h)anthracene	9.3	J	23	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Fluoranthene	46		23	4.6	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Fluorene	23	U	23	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Indeno[1,2,3-cd]pyrene	18	J	23	8.2	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
1-Methylnaphthalene	270	J	46	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
2-Methylnaphthalene	220	J	46	8.2	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Naphthalene	180	J	46	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Phenanthrene	170	J	9.2	4.5	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
Pyrene	42		23	4.3	ug/Kg	☐	03/27/13 11:19	03/28/13 18:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				03/27/13 11:19	03/28/13 18:20	1

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0343A-CSD**

**Lab Sample ID: 680-88632-7**

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

**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	☐	03/27/13 11:19	03/28/13 18:42	1
Acenaphthylene	46	U	46	5.7	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Anthracene	5.4	J	9.6	4.8	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Benzo[a]anthracene	29		9.1	4.4	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Benzo[a]pyrene	29		12	5.9	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Benzo[b]fluoranthene	54		14	7.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Benzo[g,h,i]perylene	24		23	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Benzo[k]fluoranthene	18		9.1	4.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Chrysene	41		10	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Dibenz(a,h)anthracene	7.6	J	23	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Fluoranthene	41		23	4.6	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Fluorene	23	U	23	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Indeno[1,2,3-cd]pyrene	21	J	23	8.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
1-Methylnaphthalene	15	J	46	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
2-Methylnaphthalene	21	J	46	8.1	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Naphthalene	21	J	46	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Phenanthrene	28	J	9.1	4.4	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	1
Pyrene	33		23	4.2	ug/Kg	☐	03/27/13 11:19	03/28/13 18:42	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	57		30 - 130				03/27/13 11:19	03/28/13 18:42	1

**Client Sample ID: FM0343B-CS**

**Lab Sample ID: 680-88632-8**

Date Collected: 03/21/13 10:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.5

**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	☐	03/27/13 11:19	03/28/13 19:05	4
Acenaphthylene	34	J	200	26	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Anthracene	38	J	43	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Benzo[a]anthracene	77		41	20	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Benzo[a]pyrene	71		53	27	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Benzo[b]fluoranthene	160		62	31	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Benzo[g,h,i]perylene	64	J	100	22	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Benzo[k]fluoranthene	50		41	18	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Chrysene	150		46	23	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Dibenz(a,h)anthracene	24	J	100	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Fluoranthene	120		100	20	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Fluorene	100	U	100	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Indeno[1,2,3-cd]pyrene	57	J	100	36	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
1-Methylnaphthalene	72	J	200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
2-Methylnaphthalene	74	J	200	36	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Naphthalene	82	J	200	22	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Phenanthrene	100		41	20	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	4
Pyrene	100		100	19	ug/Kg	☐	03/27/13 11:19	03/28/13 19:05	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	74		30 - 130				03/27/13 11:19	03/28/13 19:05	4

TestAmerica Savannah

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

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0090A-CS-SP**

**Lab Sample ID: 680-88632-9**

Date Collected: 03/21/13 11:23

Matrix: Solid

Date Received: 03/23/13 09:39

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	520	U	520	100	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Acenaphthylene	210	U	210	26	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Anthracene	28	J	44	22	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Benzo[a]anthracene	110		42	20	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Benzo[a]pyrene	110		54	27	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Benzo[b]fluoranthene	210		64	32	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Benzo[g,h,i]perylene	90	J	100	23	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Benzo[k]fluoranthene	62		42	19	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Chrysene	260		47	23	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Dibenz(a,h)anthracene	29	J	100	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Fluoranthene	170		100	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Fluorene	100	U	100	21	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Indeno[1,2,3-cd]pyrene	74	J	100	37	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
1-Methylnaphthalene	140	J	210	23	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
2-Methylnaphthalene	160	J	210	37	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Naphthalene	110	J	210	23	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Phenanthrene	210		42	20	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	4	
Pyrene	160		100	19	ug/Kg	☐	03/27/13 11:19	03/28/13 19:27	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	61		30 - 130				03/27/13 11:19	03/28/13 19:27	4	

**Client Sample ID: CV0090B-CS-SP**

**Lab Sample ID: 680-88632-10**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	380	F J	510	100	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Acenaphthylene	330		200	26	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Anthracene	1200	F J	43	21	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Benzo[a]anthracene	4800	F	41	20	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Benzo[a]pyrene	4700	F J	53	27	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Benzo[b]fluoranthene	7400	F	62	31	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Benzo[g,h,i]perylene	3400	F J	100	22	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Benzo[k]fluoranthene	2100	F J	41	18	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Chrysene	4700	F J	46	23	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Dibenz(a,h)anthracene	940	F	100	21	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Fluoranthene	9500	F	100	20	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Fluorene	390	F J	100	21	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Indeno[1,2,3-cd]pyrene	2400	F J	100	36	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
1-Methylnaphthalene	260		200	22	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
2-Methylnaphthalene	260		200	36	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Naphthalene	480	F	200	22	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Phenanthrene	4400	F	41	20	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	4	
Pyrene	8000	F	100	19	ug/Kg	☐	03/27/13 15:04	04/01/13 15:28	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	64		30 - 130				03/27/13 15:04	04/01/13 15:28	4	

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0092A-CS-SP**

**Lab Sample ID: 680-88632-11**

Date Collected: 03/21/13 10:46

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Acenaphthylene	190	U	190	24	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Anthracene	40	U	40	20	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Benzo[a]anthracene	71		38	19	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Benzo[a]pyrene	69		50	25	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Benzo[b]fluoranthene	120		58	29	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Benzo[g,h,i]perylene	55	J	95	21	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Benzo[k]fluoranthene	46		38	17	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Chrysene	110		43	21	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Dibenz(a,h)anthracene	95	U	95	20	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Fluoranthene	120		95	19	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Fluorene	95	U	95	20	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Indeno[1,2,3-cd]pyrene	49	J	95	34	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
1-Methylnaphthalene	40	J	190	21	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
2-Methylnaphthalene	36	J	190	34	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Naphthalene	32	J	190	21	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Phenanthrene	87		38	19	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	4
Pyrene	93	J	95	18	ug/Kg	*	03/27/13 11:19	03/28/13 19:50	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	65		30 - 130				03/27/13 11:19	03/28/13 19:50	4

**Client Sample ID: CV0092B-CS-SP**

**Lab Sample ID: 680-88632-12**

Date Collected: 03/21/13 10:55

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Acenaphthylene	55	U	55	6.8	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Anthracene	11	U	11	5.7	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Benzo[a]anthracene	11	U	11	5.3	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Benzo[a]pyrene	14	U	14	7.1	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Benzo[b]fluoranthene	17	U	17	8.3	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Benzo[g,h,i]perylene	27	U	27	6.0	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Benzo[k]fluoranthene	11	U	11	4.9	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Chrysene	12	U	12	6.2	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Dibenz(a,h)anthracene	27	U	27	5.6	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Fluoranthene	27	U	27	5.5	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Fluorene	27	U	27	5.6	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.7	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
1-Methylnaphthalene	55	U	55	6.0	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
2-Methylnaphthalene	55	U	55	9.7	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Naphthalene	55	U	55	6.0	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Phenanthrene	11	U	11	5.3	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	1
Pyrene	27	U	27	5.1	ug/Kg	*	03/27/13 11:19	03/28/13 20:12	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	49		30 - 130				03/27/13 11:19	03/28/13 20:12	1

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0312A-CS-SP**

**Lab Sample ID: 680-88632-13**

Date Collected: 03/21/13 09:29

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Acenaphthylene	15	J	56	7.0	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Anthracene	30		12	5.9	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Benzo[a]anthracene	96		11	5.5	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Benzo[a]pyrene	90		15	7.3	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Benzo[b]fluoranthene	210		17	8.5	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Benzo[g,h,i]perylene	65		28	6.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Benzo[k]fluoranthene	64		11	5.0	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Chrysene	190		13	6.3	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Dibenz(a,h)anthracene	21	J	28	5.7	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Fluoranthene	200		28	5.6	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Fluorene	12	J	28	5.7	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Indeno[1,2,3-cd]pyrene	56		28	9.9	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
1-Methylnaphthalene	69		56	6.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
2-Methylnaphthalene	99		56	9.9	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Naphthalene	160		56	6.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Phenanthrene	180		11	5.5	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
Pyrene	130		28	5.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:35	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	50		30 - 130				03/27/13 11:19	03/28/13 20:35	1

**Client Sample ID: FM0312B-CS-SP**

**Lab Sample ID: 680-88632-14**

Date Collected: 03/21/13 09:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Acenaphthylene	8.1	J	53	6.6	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Anthracene	13		11	5.6	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Benzo[a]anthracene	57		11	5.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Benzo[a]pyrene	49		14	6.9	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Benzo[b]fluoranthene	120		16	8.1	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Benzo[g,h,i]perylene	38		27	5.8	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Benzo[k]fluoranthene	31		11	4.8	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Chrysene	100		12	6.0	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Dibenz(a,h)anthracene	14	J	27	5.4	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Fluoranthene	110		27	5.3	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Fluorene	27	U	27	5.4	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Indeno[1,2,3-cd]pyrene	35		27	9.4	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
1-Methylnaphthalene	27	J	53	5.8	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
2-Methylnaphthalene	42	J	53	9.4	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Naphthalene	68		53	5.8	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Phenanthrene	85		11	5.2	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
Pyrene	71		27	4.9	ug/Kg	☆	03/27/13 11:19	03/28/13 20:57	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	56		30 - 130				03/27/13 11:19	03/28/13 20:57	1

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0312C-CS-SP**

**Lab Sample ID: 680-88632-15**

Date Collected: 03/21/13 09:51

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Acenaphthylene	13	J	48	6.0	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Anthracene	20		10	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Benzo[a]anthracene	43		9.6	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Benzo[a]pyrene	39		13	6.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Benzo[b]fluoranthene	78		15	7.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Benzo[g,h,i]perylene	31		24	5.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Benzo[k]fluoranthene	24		9.6	4.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Chrysene	62		11	5.4	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Dibenz(a,h)anthracene	11	J	24	4.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Fluoranthene	62		24	4.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Fluorene	24	U	24	4.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Indeno[1,2,3-cd]pyrene	23	J	24	8.6	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
1-Methylnaphthalene	20	J	48	5.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
2-Methylnaphthalene	26	J	48	8.6	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Naphthalene	25	J	48	5.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Phenanthrene	48		9.6	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
Pyrene	50		24	4.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:20	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	52		30 - 130				03/27/13 11:19	03/28/13 21:20	1

**Client Sample ID: FM0312D-CS-SP**

**Lab Sample ID: 680-88632-16**

Date Collected: 03/21/13 09:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Acenaphthylene	30	J	50	6.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Anthracene	44		11	5.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Benzo[a]anthracene	110		10	4.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Benzo[a]pyrene	97		13	6.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Benzo[b]fluoranthene	180		15	7.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Benzo[g,h,i]perylene	56		25	5.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Benzo[k]fluoranthene	64		10	4.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Chrysene	150		11	5.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Dibenz(a,h)anthracene	23	J	25	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Fluoranthene	180		25	5.0	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Fluorene	19	J	25	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Indeno[1,2,3-cd]pyrene	50		25	8.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
1-Methylnaphthalene	58		50	5.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
2-Methylnaphthalene	81		50	8.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Naphthalene	72		50	5.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Phenanthrene	160		10	4.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
Pyrene	130		25	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:42	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	60		30 - 130				03/27/13 11:19	03/28/13 21:42	1

TestAmerica Savannah

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

## Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0368A-CS-SP**

**Lab Sample ID: 680-88632-17**

Date Collected: 03/21/13 08:16

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Acenaphthylene	25	J	52	6.6	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Anthracene	40		11	5.5	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Benzo[a]anthracene	170		10	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Benzo[a]pyrene	140	J	14	6.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Benzo[b]fluoranthene	260		16	8.0	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Benzo[g,h,i]perylene	110		26	5.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Benzo[k]fluoranthene	110		10	4.7	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Chrysene	290	J	12	5.9	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Dibenz(a,h)anthracene	46		26	5.4	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Fluoranthene	290		26	5.2	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Fluorene	12	J	26	5.4	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Indeno[1,2,3-cd]pyrene	93		26	9.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
1-Methylnaphthalene	140		52	5.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
2-Methylnaphthalene	180		52	9.3	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Naphthalene	130		52	5.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Phenanthrene	310		10	5.1	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
Pyrene	290		26	4.8	ug/Kg	☐	03/27/13 11:19	03/28/13 21:47	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	48		30 - 130				03/27/13 11:19	03/28/13 21:47	1

**Client Sample ID: CV0368B-CS-SP**

**Lab Sample ID: 680-88632-18**

Date Collected: 03/21/13 08:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 90.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	87	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Acenaphthylene	29	J	170	22	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Anthracene	37		37	18	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Benzo[a]anthracene	130		35	17	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Benzo[a]pyrene	95	J	45	23	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Benzo[b]fluoranthene	210		53	27	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Benzo[g,h,i]perylene	120		87	19	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Benzo[k]fluoranthene	80		35	16	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Chrysene	210	J	39	20	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Dibenz(a,h)anthracene	26	J	87	18	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Fluoranthene	150		87	17	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Fluorene	19	J	87	18	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Indeno[1,2,3-cd]pyrene	72	J	87	31	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
1-Methylnaphthalene	120	J	170	19	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
2-Methylnaphthalene	110	J	170	31	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Naphthalene	98	J	170	19	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Phenanthrene	180		35	17	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
Pyrene	150		87	16	ug/Kg	☐	03/27/13 11:19	03/28/13 22:06	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	42		30 - 130				03/27/13 11:19	03/28/13 22:06	4

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



# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0443A-CS-SP**

**Lab Sample ID: 680-88632-19**

Date Collected: 03/21/13 14:57

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 82.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	29	J	120	24	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Acenaphthylene	6.2	J	47	5.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Anthracene	75		9.9	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[a]anthracene	230		9.4	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[a]pyrene	170	J	12	6.1	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[b]fluoranthene	270		14	7.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[g,h,i]perylene	110		24	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[k]fluoranthene	120		9.4	4.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Chrysene	230	J	11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Dibenz(a,h)anthracene	31		24	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Fluoranthene	470		24	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Fluorene	19	J	24	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Indeno[1,2,3-cd]pyrene	120		24	8.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
1-Methylnaphthalene	52		47	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
2-Methylnaphthalene	75		47	8.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Naphthalene	62		47	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Phenanthrene	380		9.4	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Pyrene	400		24	4.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	46		30 - 130				03/27/13 11:19	03/28/13 22:24	1

**Client Sample ID: CV0443B-CS-SP**

**Lab Sample ID: 680-88632-20**

Date Collected: 03/21/13 14:59

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Acenaphthylene	18	J	53	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Anthracene	15		11	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[a]anthracene	81		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[a]pyrene	64	J	14	6.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[b]fluoranthene	170		16	8.1	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[g,h,i]perylene	80		27	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[k]fluoranthene	42		11	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Chrysene	140	J	12	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Dibenz(a,h)anthracene	28		27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Fluoranthene	120		27	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Fluorene	12	J	27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Indeno[1,2,3-cd]pyrene	48		27	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
1-Methylnaphthalene	80		53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
2-Methylnaphthalene	90		53	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Naphthalene	89		53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Phenanthrene	120		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Pyrene	120		27	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	50		30 - 130				03/27/13 11:19	03/28/13 22:42	1

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## ANALYTICAL REPORT

Job Number: 680-88632-1

SDG Number: 68088632-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Bernard Kirkland  
Project Manager I  
4/4/2013 7:54 AM

---

Designee for  
Lisa Harvey  
Project Manager II  
lisa.harvey@testamericainc.com  
04/04/2013

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## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-1**

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

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

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

### RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0697A-CS (680-88632-1), CV0697B-CS (680-88632-2), FM0341A-CS (680-88632-3), FM0341B-CS (680-88632-4), FM0341C-GS (680-88632-5), FM0343A-CS (680-88632-6), FM0343A-CSD (680-88632-7), FM0343B-CS (680-88632-8), CV0090A-CS-SP (680-88632-9), CV0090B-CS-SP (680-88632-10), CV0092A-CS-SP (680-88632-11), CV0092B-CS-SP (680-88632-12), FM0312A-CS-SP (680-88632-13), FM0312B-CS-SP (680-88632-14), FM0312C-CS-SP (680-88632-15), FM0312D-CS-SP (680-88632-16), CV0368A-CS-SP (680-88632-17), CV0368B-CS-SP (680-88632-18), CV0443A-CS-SP (680-88632-19) and CV0443B-CS-SP (680-88632-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV0697B-CS (680-88632-2)[4X], FM0341A-CS (680-88632-3)[4X], FM0341B-CS (680-88632-4)[4X], FM0343B-CS (680-88632-8)[4X], CV0090A-CS-SP (680-88632-9)[4X], CV0090B-CS-SP (680-88632-10)[4X], CV0092A-CS-SP (680-88632-11)[4X] and CV0368B-CS-SP (680-88632-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 660-135996. Several analytes also exceeded the rpd limit.

Benzo[b]fluoranthene recovered outside the recovery criteria for the MSD of sample 680-88592-19 in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

Sdg Number: 68088632-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-88632-1	CV0697A-CS	Solid	03/21/2013 0825	03/23/2013 0939
680-88632-2	CV0697B-CS	Solid	03/21/2013 0840	03/23/2013 0939
680-88632-3	FM0341A-CS	Solid	03/21/2013 1130	03/23/2013 0939
680-88632-4	FM0341B-CS	Solid	03/21/2013 1145	03/23/2013 0939
680-88632-5	FM0341C-GS	Solid	03/21/2013 1154	03/23/2013 0939
680-88632-6	FM0343A-CS	Solid	03/21/2013 1030	03/23/2013 0939
680-88632-7	FM0343A-CSD	Solid	03/21/2013 1030	03/23/2013 0939
680-88632-8	FM0343B-CS	Solid	03/21/2013 1050	03/23/2013 0939
680-88632-9	CV0090A-CS-SP	Solid	03/21/2013 1123	03/23/2013 0939
680-88632-10	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-10MS	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-10MSD	CV0090B-CS-SP	Solid	03/21/2013 1135	03/23/2013 0939
680-88632-11	CV0092A-CS-SP	Solid	03/21/2013 1046	03/23/2013 0939
680-88632-12	CV0092B-CS-SP	Solid	03/21/2013 1055	03/23/2013 0939
680-88632-13	FM0312A-CS-SP	Solid	03/21/2013 0929	03/23/2013 0939
680-88632-14	FM0312B-CS-SP	Solid	03/21/2013 0932	03/23/2013 0939
680-88632-15	FM0312C-CS-SP	Solid	03/21/2013 0951	03/23/2013 0939
680-88632-16	FM0312D-CS-SP	Solid	03/21/2013 0945	03/23/2013 0939
680-88632-17	CV0368A-CS-SP	Solid	03/21/2013 0816	03/23/2013 0939
680-88632-18	CV0368B-CS-SP	Solid	03/21/2013 0832	03/23/2013 0939
680-88632-19	CV0443A-CS-SP	Solid	03/21/2013 1457	03/23/2013 0939
680-88632-20	CV0443B-CS-SP	Solid	03/21/2013 1459	03/23/2013 0939

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1  
Sdg Number: 68088632-1

<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: 680-88632-1

Sdg Number: 68088632-1

<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: 680-88632-1

Sdg Number: 68088632-1

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

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

Sdg Number: 68088632-1

### 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: 660-135800</b>					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135800/1-A	Method Blank	T	Solid	3546	
680-88592-A-19-B MS	Matrix Spike	T	Solid	3546	
680-88592-A-19-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-1	CV0697A-CS	T	Solid	3546	
680-88632-2	CV0697B-CS	T	Solid	3546	
680-88632-3	FM0341A-CS	T	Solid	3546	
<b>Prep Batch: 660-135822</b>					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135822/1-A	Method Blank	T	Solid	3546	
680-88592-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88592-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88632-4	FM0341B-CS	T	Solid	3546	
680-88632-5	FM0341C-GS	T	Solid	3546	
680-88632-6	FM0343A-CS	T	Solid	3546	
680-88632-7	FM0343A-CSD	T	Solid	3546	
680-88632-8	FM0343B-CS	T	Solid	3546	
680-88632-9	CV0090A-CS-SP	T	Solid	3546	
680-88632-11	CV0092A-CS-SP	T	Solid	3546	
680-88632-12	CV0092B-CS-SP	T	Solid	3546	
680-88632-13	FM0312A-CS-SP	T	Solid	3546	
680-88632-14	FM0312B-CS-SP	T	Solid	3546	
680-88632-15	FM0312C-CS-SP	T	Solid	3546	
680-88632-16	FM0312D-CS-SP	T	Solid	3546	
680-88632-17	CV0368A-CS-SP	T	Solid	3546	
680-88632-18	CV0368B-CS-SP	T	Solid	3546	
680-88632-19	CV0443A-CS-SP	T	Solid	3546	
680-88632-20	CV0443B-CS-SP	T	Solid	3546	
<b>Analysis Batch:660-135830</b>					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	8270C LL	660-135800
MB 660-135800/1-A	Method Blank	T	Solid	8270C LL	660-135800
680-88592-A-19-B MS	Matrix Spike	T	Solid	8270C LL	660-135800
680-88592-A-19-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135800
680-88632-1	CV0697A-CS	T	Solid	8270C LL	660-135800
680-88632-2	CV0697B-CS	T	Solid	8270C LL	660-135800
680-88632-3	FM0341A-CS	T	Solid	8270C LL	660-135800
<b>Prep Batch: 660-135843</b>					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135843/1-A	Method Blank	T	Solid	3546	
680-88632-10	CV0090B-CS-SP	T	Solid	3546	
680-88632-10MS	Matrix Spike	T	Solid	3546	
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	3546	

TestAmerica Savannah

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

Sdg Number: 68088632-1

### 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:660-135902</b>					
680-88632-17	CV0368A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-18	CV0368B-CS-SP	T	Solid	8270C LL	660-135822
680-88632-19	CV0443A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-20	CV0443B-CS-SP	T	Solid	8270C LL	660-135822
<b>Analysis Batch:660-135996</b>					
LCS 660-135843/2-A	Lab Control Sample	T	Solid	8270C LL	660-135843
MB 660-135843/1-A	Method Blank	T	Solid	8270C LL	660-135843
680-88632-10	CV0090B-CS-SP	T	Solid	8270C LL	660-135843
680-88632-10MS	Matrix Spike	T	Solid	8270C LL	660-135843
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135843
<b>Analysis Batch:660-136038</b>					
LCS 660-135822/2-A	Lab Control Sample	T	Solid	8270C LL	660-135822
MB 660-135822/1-A	Method Blank	T	Solid	8270C LL	660-135822
680-88592-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135822
680-88592-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135822
680-88632-4	FM0341B-CS	T	Solid	8270C LL	660-135822
680-88632-5	FM0341C-GS	T	Solid	8270C LL	660-135822
680-88632-6	FM0343A-CS	T	Solid	8270C LL	660-135822
680-88632-7	FM0343A-CSD	T	Solid	8270C LL	660-135822
680-88632-8	FM0343B-CS	T	Solid	8270C LL	660-135822
680-88632-9	CV0090A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-11	CV0092A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-12	CV0092B-CS-SP	T	Solid	8270C LL	660-135822
680-88632-13	FM0312A-CS-SP	T	Solid	8270C LL	660-135822
680-88632-14	FM0312B-CS-SP	T	Solid	8270C LL	660-135822
680-88632-15	FM0312C-CS-SP	T	Solid	8270C LL	660-135822
680-88632-16	FM0312D-CS-SP	T	Solid	8270C LL	660-135822

**Report Basis**

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

Sdg Number: 68088632-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:660-135786</b>					
680-88632-1	CV0697A-CS	T	Solid	Moisture	
680-88632-2	CV0697B-CS	T	Solid	Moisture	
680-88632-3	FM0341A-CS	T	Solid	Moisture	
680-88632-5	FM0341C-GS	T	Solid	Moisture	
680-88632-6	FM0343A-CS	T	Solid	Moisture	
680-88632-7	FM0343A-CSD	T	Solid	Moisture	
680-88632-8	FM0343B-CS	T	Solid	Moisture	
680-88632-9	CV0090A-CS-SP	T	Solid	Moisture	
680-88632-10	CV0090B-CS-SP	T	Solid	Moisture	
680-88632-10MS	Matrix Spike	T	Solid	Moisture	
680-88632-10MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-11	CV0092A-CS-SP	T	Solid	Moisture	
680-88632-12	CV0092B-CS-SP	T	Solid	Moisture	
680-88632-13	FM0312A-CS-SP	T	Solid	Moisture	
680-88632-14	FM0312B-CS-SP	T	Solid	Moisture	
680-88632-15	FM0312C-CS-SP	T	Solid	Moisture	
680-88632-16	FM0312D-CS-SP	T	Solid	Moisture	
680-88632-17	CV0368A-CS-SP	T	Solid	Moisture	
680-88632-18	CV0368B-CS-SP	T	Solid	Moisture	
680-88632-19	CV0443A-CS-SP	T	Solid	Moisture	
680-88632-20	CV0443B-CS-SP	T	Solid	Moisture	
680-88632-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88632-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88632-A-45 MS	Matrix Spike	T	Solid	Moisture	
680-88632-A-45 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
<b>Analysis Batch:660-135794</b>					
LCS 660-135794/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135794/11	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88632-4	FM0341B-CS	T	Solid	Moisture	

**Report Basis**

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-134776/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: \_\_\_\_\_

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

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

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

Lab Sample ID: IC 660-134776/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: \_\_\_\_\_

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

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-134776/8 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-134776/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: \_\_\_\_\_

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

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

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

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

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

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

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

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

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1

SDG No.: 68088632-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: ICV 660-134776/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: \_\_\_\_\_

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: CCVIS 660-135830/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 10:35 Lab File ID: 1CC27003.D GC Column: \_\_\_\_\_

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

Lab Sample ID: LCS 660-135800/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 11:44 Lab File ID: 1CC27006.D GC Column: \_\_\_\_\_

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

Lab Sample ID: 680-88592-A-19-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 12:39 Lab File ID: 1CC27009.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/27/

Lab Sample ID: 680-88592-A-19-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 03/27/13 12:57 Lab File ID: 1CC27010.D GC Column: \_\_\_\_\_

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

Lab Sample ID: 680-88632-1 Client Sample ID: CV0697A-CSDate Analyzed: 03/27/13 18:08 Lab File ID: 1CC27027.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.55	Split Peak	cantins	04/01/
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/

Lab Sample ID: 680-88632-2 Client Sample ID: CV0697B-CSDate Analyzed: 03/27/13 18:26 Lab File ID: 1CC27028.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.55	Split Peak	cantins	04/01/
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	04/01/
Benzo[g,h,i]perylene	10.41	Baseline Event	cantins	04/01/

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

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88632-3 Client Sample ID: FM0341A-CSDate Analyzed: 03/27/13 18:44 Lab File ID: 1CC27029.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: CCVIS 660-135902/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 11:59 Lab File ID: 1CC28003.D GC Column: \_\_\_\_\_

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

Lab Sample ID: 680-88632-17 Client Sample ID: CV0368A-CS-SPDate Analyzed: 03/28/13 21:47 Lab File ID: 1CC28035.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-18 Client Sample ID: CV0368B-CS-SPDate Analyzed: 03/28/13 22:06 Lab File ID: 1CC28036.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.05	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	10.40	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-19 Client Sample ID: CV0443A-CS-SPDate Analyzed: 03/28/13 22:24 Lab File ID: 1CC28037.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-20 Client Sample ID: CV0443B-CS-SPDate Analyzed: 03/28/13 22:42 Lab File ID: 1CC28038.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/02/
Benzo[g,h,i]perylene	10.40	Baseline Event	cantins	04/02/

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973 Analysis Batch Number: 135996Lab Sample ID: CCVIS 660-135996/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 04/01/13 11:31 Lab File ID: 1CD01003.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/

Lab Sample ID: LCS 660-135843/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 04/01/13 15:10 Lab File ID: 1CD01014.D GC Column: \_\_\_\_\_

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

Lab Sample ID: 680-88632-10 Client Sample ID: CV0090B-CS-SPDate Analyzed: 04/01/13 15:28 Lab File ID: 1CD01015.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/02/
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/02/
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/
Benzo[g,h,i]perylene	10.37	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-10 MS Client Sample ID: CV0090B-CS-SP MSDate Analyzed: 04/01/13 15:47 Lab File ID: 1CD01016.D GC Column: \_\_\_\_\_

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

Lab Sample ID: 680-88632-10 MSD Client Sample ID: CV0090B-CS-SP MSDDate Analyzed: 04/01/13 16:05 Lab File ID: 1CD01017.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/02/

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: IC 660-134781/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-134781/4 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: \_\_\_\_\_

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

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

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

Lab Sample ID: IC 660-134781/6 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: \_\_\_\_\_

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

Lab Sample ID: IC 660-134781/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: \_\_\_\_\_

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

Lab Sample ID: ICV 660-134781/10 Client Sample ID: \_\_\_\_\_Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	9.32	Baseline Event	cantins	02/22/

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

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973 Analysis Batch Number: 136038Lab Sample ID: CCVIS 660-136038/9 Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 14:57 Lab File ID: 1DC28009.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.83	Split Peak	cantins	03/28/

Lab Sample ID: LCS 660-135822/2-A Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 16:05 Lab File ID: 1DC28012.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.80	Split Peak	cantins	04/02/

Lab Sample ID: 680-88592-A-21-B MS Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 16:50 Lab File ID: 1DC28014.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

Lab Sample ID: 680-88592-A-21-C MSD Client Sample ID: \_\_\_\_\_Date Analyzed: 03/28/13 17:12 Lab File ID: 1DC28015.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-4 Client Sample ID: FM0341B-CSDate Analyzed: 03/28/13 17:35 Lab File ID: 1DC28016.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.80	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-5 Client Sample ID: FM0341C-GSDate Analyzed: 03/28/13 17:57 Lab File ID: 1DC28017.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-6 Client Sample ID: FM0343A-CSDate Analyzed: 03/28/13 18:20 Lab File ID: 1DC28018.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/
Benzo[g,h,i]perylene	15.26	Baseline Event	cantins	04/02/

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

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

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973 Analysis Batch Number: 136038Lab Sample ID: 680-88632-7 Client Sample ID: FM0343A-CSDDate Analyzed: 03/28/13 18:42 Lab File ID: 1DC28019.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.82	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-8 Client Sample ID: FM0343B-CSDate Analyzed: 03/28/13 19:05 Lab File ID: 1DC28020.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-9 Client Sample ID: CV0090A-CS-SPDate Analyzed: 03/28/13 19:27 Lab File ID: 1DC28021.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-11 Client Sample ID: CV0092A-CS-SPDate Analyzed: 03/28/13 19:50 Lab File ID: 1DC28022.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.81	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	14.85	Baseline Event	cantins	04/02/
Benzo[g,h,i]perylene	15.26	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-13 Client Sample ID: FM0312A-CS-SPDate Analyzed: 03/28/13 20:35 Lab File ID: 1DC28024.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	04/02/

Lab Sample ID: 680-88632-14 Client Sample ID: FM0312B-CS-SPDate Analyzed: 03/28/13 20:57 Lab File ID: 1DC28025.D GC Column: \_\_\_\_\_

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.83	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	14.86	Baseline Event	cantins	04/02/

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

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

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

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

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

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

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## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973 Analysis Batch Number: 136038Lab Sample ID: 680-88632-15 Client Sample ID: FM0312C-CS-SPDate Analyzed: 03/28/13 21:20 Lab File ID: 1DC28026.D GC Column: 

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.84	Split Peak	cantins	04/02/
Dibenz(a,h)anthracene	14.86	Baseline Event	cantins	04/02/

Lab Sample ID: 680-88632-16 Client Sample ID: FM0312D-CS-SPDate Analyzed: 03/28/13 21:42 Lab File ID: 1DC28027.D GC Column: 

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	14.83	Split Peak	cantins	04/02/

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

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

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# Method 8270C Low Level

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

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-88632-1

SDG No.: 68088632-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0697A-CS	680-88632-1	86
CV0697B-CS	680-88632-2	67
FM0341A-CS	680-88632-3	73
FM0341B-CS	680-88632-4	60
FM0341C-GS	680-88632-5	53
FM0343A-CS	680-88632-6	48
FM0343A-CSD	680-88632-7	57
FM0343B-CS	680-88632-8	74
CV0090A-CS-SP	680-88632-9	61
CV0090B-CS-SP	680-88632-10	64
CV0092A-CS-SP	680-88632-11	65
CV0092B-CS-SP	680-88632-12	49
FM0312A-CS-SP	680-88632-13	50
FM0312B-CS-SP	680-88632-14	56
FM0312C-CS-SP	680-88632-15	52
FM0312D-CS-SP	680-88632-16	60
CV0368A-CS-SP	680-88632-17	48
CV0368B-CS-SP	680-88632-18	42
CV0443A-CS-SP	680-88632-19	46
CV0443B-CS-SP	680-88632-20	50
	MB 660-135800/1-A	69
	MB 660-135822/1-A	65
	MB 660-135843/1-A	60
	LCS 660-135800/2-A	73
	LCS 660-135822/2-A	70
	LCS 660-135843/2-A	81
	680-88592-A-19-B MS	55
	680-88592-A-21-B MS	57
CV0090B-CS-SP MS	680-88632-10 MS	75
	680-88592-A-19-C MSD	69

OTPH = o-Terphenyl

QC LIMITS  
30-130

# Column to be used to flag recovery values

FORM II 8270C LL

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-88632-1

SDG No.: 68088632-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-88592-A-21-C MSD	63
CV0090B-CS-SP MSD	680-88632-10 MSD	65

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CC27006.D  
 Lab ID: LCS 660-135800/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	534	80	39-130	
Acenaphthylene	670	518	77	38-130	
Anthracene	670	533	80	37-130	
Benzo[a]anthracene	670	502	75	40-130	
Benzo[a]pyrene	670	483	72	49-130	
Benzo[b]fluoranthene	670	554	83	37-130	
Benzo[g,h,i]perylene	670	493	74	32-130	
Benzo[k]fluoranthene	670	514	77	32-130	
Chrysene	670	494	74	41-130	
Dibenz(a,h)anthracene	670	525	78	27-130	
Fluoranthene	670	540	81	40-130	
Fluorene	670	558	83	40-130	
Indeno[1,2,3-cd]pyrene	670	495	74	30-130	
1-Methylnaphthalene	670	553	83	31-130	
2-Methylnaphthalene	670	503	75	33-130	
Naphthalene	670	505	75	36-130	
Phenanthrene	670	503	75	42-130	
Pyrene	670	517	77	44-130	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1DC28012.D  
 Lab ID: LCS 660-135822/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	455	68	39-130	
Acenaphthylene	670	472	70	38-130	
Anthracene	670	464	69	37-130	
Benzo[a]anthracene	670	520	78	40-130	
Benzo[a]pyrene	670	459	69	49-130	
Benzo[b]fluoranthene	670	503	75	37-130	
Benzo[g,h,i]perylene	670	486	73	32-130	
Benzo[k]fluoranthene	670	484	72	32-130	
Chrysene	670	464	69	41-130	
Dibenz(a,h)anthracene	670	527	79	27-130	
Fluoranthene	670	488	73	40-130	
Fluorene	670	491	73	40-130	
Indeno[1,2,3-cd]pyrene	670	469	70	30-130	
1-Methylnaphthalene	670	512	76	31-130	
2-Methylnaphthalene	670	499	75	33-130	
Naphthalene	670	470	70	36-130	
Phenanthrene	670	461	69	42-130	
Pyrene	670	464	69	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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CD01014.D  
 Lab ID: LCS 660-135843/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	495	74	39-130	
Acenaphthylene	668	547	82	38-130	
Anthracene	668	519	78	37-130	
Benzo[a]anthracene	668	536	80	40-130	
Benzo[a]pyrene	668	483	72	49-130	
Benzo[b]fluoranthene	668	481	72	37-130	
Benzo[g,h,i]perylene	668	477	71	32-130	
Benzo[k]fluoranthene	668	573	86	32-130	
Chrysene	668	497	74	41-130	
Dibenz(a,h)anthracene	668	499	75	27-130	
Fluoranthene	668	548	82	40-130	
Fluorene	668	536	80	40-130	
Indeno[1,2,3-cd]pyrene	668	511	76	30-130	
1-Methylnaphthalene	668	593	89	31-130	
2-Methylnaphthalene	668	577	86	33-130	
Naphthalene	668	539	81	36-130	
Phenanthrene	668	518	78	42-130	
Pyrene	668	556	83	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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CC27009.D  
 Lab ID: 680-88592-A-19-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1000	600 U	681	68	39-130	
Acenaphthylene	1000	31 J	617	58	38-130	
Anthracene	1000	75	583	51	37-130	
Benzo[a]anthracene	1000	650	1120	47	40-130	
Benzo[a]pyrene	1000	740	1280	54	49-130	
Benzo[b]fluoranthene	1000	1500	2010	50	37-130	
Benzo[g,h,i]perylene	1000	800	1370	56	32-130	
Benzo[k]fluoranthene	1000	410	1150	74	32-130	
Chrysene	1000	670	1240	57	41-130	
Dibenz(a,h)anthracene	1000	270	768	50	27-130	
Fluoranthene	1000	720	1280	55	40-130	
Fluorene	1000	120 U	671	67	40-130	
Indeno[1,2,3-cd]pyrene	1000	750	1110	35	30-130	
1-Methylnaphthalene	1000	60 J	781	72	31-130	
2-Methylnaphthalene	1000	110 J	690	58	33-130	
Naphthalene	1000	160 J	865	70	36-130	
Phenanthrene	1000	370	870	50	42-130	
Pyrene	1000	690	1240	54	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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1DC28014.D  
 Lab ID: 680-88592-A-21-B MS Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	856	500 U	465 J	54	39-130	
Acenaphthylene	856	200 U	493	58	38-130	
Anthracene	856	41 J	478	51	37-130	
Benzo[a]anthracene	856	150	561	48	40-130	
Benzo[a]pyrene	856	120	467	41	49-130	F
Benzo[b]fluoranthene	856	230	511	33	37-130	F
Benzo[g,h,i]perylene	856	130	485	41	32-130	
Benzo[k]fluoranthene	856	63	473	48	32-130	
Chrysene	856	200	484	33	41-130	F
Dibenz(a,h)anthracene	856	46 J	525	56	27-130	
Fluoranthene	856	160	509	41	40-130	
Fluorene	856	99 U	502	59	40-130	
Indeno[1,2,3-cd]pyrene	856	87 J	474	45	30-130	
1-Methylnaphthalene	856	250	535	33	31-130	
2-Methylnaphthalene	856	250	520	31	33-130	F
Naphthalene	856	190 J	507	37	36-130	
Phenanthrene	856	230	480	30	42-130	F
Pyrene	856	140	477	39	44-130	F

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CD01016.D  
 Lab ID: 680-88632-10 MS Client ID: CV0090B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	380 J	674	35	39-130	F
Acenaphthylene	852	330	736	48	38-130	
Anthracene	852	1200	936	-36	37-130	F
Benzo[a]anthracene	852	4800	2110	-316	40-130	4
Benzo[a]pyrene	852	4700	2020	-310	49-130	4
Benzo[b]fluoranthene	852	7400	2820	-543	37-130	4
Benzo[g,h,i]perylene	852	3400	1560	-217	32-130	F
Benzo[k]fluoranthene	852	2100	1490	-67	32-130	F
Chrysene	852	4700	2080	-304	41-130	4
Dibenz(a,h)anthracene	852	940	1030	10	27-130	F
Fluoranthene	852	9500	3460	-713	40-130	4
Fluorene	852	390	698	36	40-130	F
Indeno[1,2,3-cd]pyrene	852	2400	1420	-118	30-130	F
1-Methylnaphthalene	852	260	1050	93	31-130	
2-Methylnaphthalene	852	260	920	78	33-130	
Naphthalene	852	480	783	36	36-130	
Phenanthrene	852	4400	2180	-262	42-130	4
Pyrene	852	8000	3030	-586	44-130	4

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CC27010.D  
 Lab ID: 680-88592-A-19-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1000	616	61	10	40	39-130	
Acenaphthylene	1000	693	66	12	40	38-130	
Anthracene	1000	763	69	27	40	37-130	
Benzo[a]anthracene	1000	1550	89	32	40	40-130	
Benzo[a]pyrene	1000	1700	95	28	40	49-130	
Benzo[b]fluoranthene	1000	3480	197	53	40	37-130	F
Benzo[g,h,i]perylene	1000	1900	109	32	40	32-130	
Benzo[k]fluoranthene	1000	1420	100	21	40	32-130	
Chrysene	1000	1760	109	35	40	41-130	
Dibenz(a,h)anthracene	1000	1010	74	27	40	27-130	
Fluoranthene	1000	1780	105	33	40	40-130	
Fluorene	1000	829	83	21	40	40-130	
Indeno[1,2,3-cd]pyrene	1000	1740	99	44	40	30-130	F
1-Methylnaphthalene	1000	882	82	12	40	31-130	
2-Methylnaphthalene	1000	985	87	35	40	33-130	
Naphthalene	1000	946	78	9	40	36-130	
Phenanthrene	1000	1170	80	30	40	42-130	
Pyrene	1000	1580	89	24	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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1DC28015.D  
 Lab ID: 680-88592-A-21-C MSD Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	869	536	62	14	40	39-130	
Acenaphthylene	869	543	63	10	40	38-130	
Anthracene	869	550	59	14	40	37-130	
Benzo[a]anthracene	869	633	56	12	40	40-130	
Benzo[a]pyrene	869	535	48	13	40	49-130	F
Benzo[b]fluoranthene	869	591	42	15	40	37-130	
Benzo[g,h,i]perylene	869	564	50	15	40	32-130	
Benzo[k]fluoranthene	869	571	58	19	40	32-130	
Chrysene	869	558	41	14	40	41-130	
Dibenz(a,h)anthracene	869	604	64	14	40	27-130	
Fluoranthene	869	571	47	12	40	40-130	
Fluorene	869	559	64	11	40	40-130	
Indeno[1,2,3-cd]pyrene	869	527	51	11	40	30-130	
1-Methylnaphthalene	869	602	40	12	40	31-130	
2-Methylnaphthalene	869	580	37	11	40	33-130	
Naphthalene	869	552	42	9	40	36-130	
Phenanthrene	869	553	37	14	40	42-130	F
Pyrene	869	552	47	15	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.: 680-88632-1  
 SDG No.: 68088632-1  
 Matrix: Solid Level: Low Lab File ID: 1CD01017.D  
 Lab ID: 680-88632-10 MSD Client ID: CV0090B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	853	695	37	3	40	39-130	F
Acenaphthylene	853	844	60	14	40	38-130	
Anthracene	853	1160	-10	21	40	37-130	F
Benzo[a]anthracene	853	4010	-93	62	40	40-130	4 F
Benzo[a]pyrene	853	3770	-104	61	40	49-130	4 F
Benzo[b]fluoranthene	853	5430	-236	63	40	37-130	4 F
Benzo[g,h,i]perylene	853	2480	-108	46	40	32-130	F
Benzo[k]fluoranthene	853	2920	101	65	40	32-130	F
Chrysene	853	4100	-66	65	40	41-130	4 F
Dibenz(a,h)anthracene	853	1210	32	17	40	27-130	
Fluoranthene	853	6580	-346	62	40	40-130	4 F
Fluorene	853	724	39	4	40	40-130	F
Indeno[1,2,3-cd]pyrene	853	2460	4	54	40	30-130	F
1-Methylnaphthalene	853	816	65	25	40	31-130	
2-Methylnaphthalene	853	621	43	39	40	33-130	
Naphthalene	853	681	24	14	40	36-130	F
Phenanthrene	853	3080	-156	34	40	42-130	4
Pyrene	853	6020	-235	66	40	44-130	4 F

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
SDG No.: 68088632-1  
Lab File ID: 1CC27005.D Lab Sample ID: MB 660-135800/1-A  
Matrix: Solid Date Extracted: 03/26/2013 16:07  
Instrument ID: BSMC5973 Date Analyzed: 03/27/2013 11:26  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135800/2-A	1CC27006.D	03/27/2013 11:44
	680-88592-A-19-B MS	1CC27009.D	03/27/2013 12:39
	680-88592-A-19-C MSD	1CC27010.D	03/27/2013 12:57
CV0697A-CS	680-88632-1	1CC27027.D	03/27/2013 18:08
CV0697B-CS	680-88632-2	1CC27028.D	03/27/2013 18:26
FM0341A-CS	680-88632-3	1CC27029.D	03/27/2013 18:44

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1DC28011.D Lab Sample ID: MB 660-135822/1-A  
 Matrix: Solid Date Extracted: 03/27/2013 11:19  
 Instrument ID: BSMD5973 Date Analyzed: 03/28/2013 15:42  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135822/2-A	1DC28012.D	03/28/2013 16:05
	680-88592-A-21-B MS	1DC28014.D	03/28/2013 16:50
	680-88592-A-21-C MSD	1DC28015.D	03/28/2013 17:12
FM0341B-CS	680-88632-4	1DC28016.D	03/28/2013 17:35
FM0341C-GS	680-88632-5	1DC28017.D	03/28/2013 17:57
FM0343A-CS	680-88632-6	1DC28018.D	03/28/2013 18:20
FM0343A-CSD	680-88632-7	1DC28019.D	03/28/2013 18:42
FM0343B-CS	680-88632-8	1DC28020.D	03/28/2013 19:05
CV0090A-CS-SP	680-88632-9	1DC28021.D	03/28/2013 19:27
CV0092A-CS-SP	680-88632-11	1DC28022.D	03/28/2013 19:50
CV0092B-CS-SP	680-88632-12	1DC28023.D	03/28/2013 20:12
FM0312A-CS-SP	680-88632-13	1DC28024.D	03/28/2013 20:35
FM0312B-CS-SP	680-88632-14	1DC28025.D	03/28/2013 20:57
FM0312C-CS-SP	680-88632-15	1DC28026.D	03/28/2013 21:20
FM0312D-CS-SP	680-88632-16	1DC28027.D	03/28/2013 21:42
CV0368A-CS-SP	680-88632-17	1CC28035.D	03/28/2013 21:47
CV0368B-CS-SP	680-88632-18	1CC28036.D	03/28/2013 22:06
CV0443A-CS-SP	680-88632-19	1CC28037.D	03/28/2013 22:24
CV0443B-CS-SP	680-88632-20	1CC28038.D	03/28/2013 22:42

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
SDG No.: 68088632-1  
Lab File ID: 1CD01013.D Lab Sample ID: MB 660-135843/1-A  
Matrix: Solid Date Extracted: 03/27/2013 15:04  
Instrument ID: BSMC5973 Date Analyzed: 04/01/2013 14:52  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135843/2-A	1CD01014.D	04/01/2013 15:10
CV0090B-CS-SP	680-88632-10	1CD01015.D	04/01/2013 15:28
CV0090B-CS-SP MS	680-88632-10 MS	1CD01016.D	04/01/2013 15:47
CV0090B-CS-SP MSD	680-88632-10 MSD	1CD01017.D	04/01/2013 16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41  
 Analysis Batch No.: 134776

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

1-Value is % mass 69

2-Value is % mass 442

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

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



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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1CC27002.D DFTPP Injection Date: 03/27/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:18  
 Analysis Batch No.: 135830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	1.0 (2.0)1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	47.6
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	18.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	8.2
442	Greater than 50.0 % of mass 198	55.2
443	15.0 - 24.0 % of mass 442	12.1 (21.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135830/3	1CC27003.D	03/27/2013	10:35
	MB 660-135800/1-A	1CC27005.D	03/27/2013	11:26
	LCS 660-135800/2-A	1CC27006.D	03/27/2013	11:44
	680-88592-A-19-B MS	1CC27009.D	03/27/2013	12:39
	680-88592-A-19-C MSD	1CC27010.D	03/27/2013	12:57
CV0697A-CS	680-88632-1	1CC27027.D	03/27/2013	18:08
CV0697B-CS	680-88632-2	1CC27028.D	03/27/2013	18:26
FM0341A-CS	680-88632-3	1CC27029.D	03/27/2013	18:44

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1CC28002.D DFTPP Injection Date: 03/28/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:42  
 Analysis Batch No.: 135902

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.0
68	Less than 2.0 % of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	43.3
70	Less than 2.0 % of mass 69	0.3 (0.8) 1
127	10.0 - 80.0 % of mass 198	48.0
197	Less than 2.0 % of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	23.6
365	Greater than 1.0 % of mass 198	4.4
441	Present but less than mass 443	13.2
442	Greater than 50.0 % of mass 198	91.4
443	15.0 - 24.0 % of mass 442	20.8 (22.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135902/3	1CC28003.D	03/28/2013	11:59
CV0368A-CS-SP	680-88632-17	1CC28035.D	03/28/2013	21:47
CV0368B-CS-SP	680-88632-18	1CC28036.D	03/28/2013	22:06
CV0443A-CS-SP	680-88632-19	1CC28037.D	03/28/2013	22:24
CV0443B-CS-SP	680-88632-20	1CC28038.D	03/28/2013	22:42

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1CD01002.D DFTPP Injection Date: 04/01/2013  
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:14  
 Analysis Batch No.: 135996

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	0.7 (1.6) 1
69	Mass 69 relative abundance	43.8
70	Less than 2.0 % of mass 69	0.2 (0.4) 1
127	10.0 - 80.0 % of mass 198	45.9
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	6.5
275	10.0 - 60.0 % of mass 198	24.8
365	Greater than 1.0 % of mass 198	3.9
441	Present but less than mass 443	14.9
442	Greater than 50.0 % of mass 198	94.0
443	15.0 - 24.0 % of mass 442	18.4 (19.6) 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 660-135996/3	1CD01003.D	04/01/2013	11:31
	MB 660-135843/1-A	1CD01013.D	04/01/2013	14:52
	LCS 660-135843/2-A	1CD01014.D	04/01/2013	15:10
CV0090B-CS-SP	680-88632-10	1CD01015.D	04/01/2013	15:28
CV0090B-CS-SP MS	680-88632-10 MS	1CD01016.D	04/01/2013	15:47
CV0090B-CS-SP MSD	680-88632-10 MSD	1CD01017.D	04/01/2013	16:05

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:57  
 Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46.6
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	50.9
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	64.5
443	15.0 - 24.0 % of mass 442	13.2 (20.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab File ID: 1DC28002.D DFTPP Injection Date: 03/28/2013  
 Instrument ID: BSMD5973 DFTPP Injection Time: 12:00  
 Analysis Batch No.: 136038

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	37.7
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	45.6
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	6.5
275	10.0 - 60.0 % of mass 198	29.4
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	8.0
442	Greater than 50.0 % of mass 198	97.0
443	15.0 - 24.0 % of mass 442	19.5 (20.1)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 660-136038/9	1DC28009.D	03/28/2013	14:57
	MB 660-135822/1-A	1DC28011.D	03/28/2013	15:42
	LCS 660-135822/2-A	1DC28012.D	03/28/2013	16:05
	680-88592-A-21-B MS	1DC28014.D	03/28/2013	16:50
	680-88592-A-21-C MSD	1DC28015.D	03/28/2013	17:12
FM0341B-CS	680-88632-4	1DC28016.D	03/28/2013	17:35
FM0341C-GS	680-88632-5	1DC28017.D	03/28/2013	17:57
FM0343A-CS	680-88632-6	1DC28018.D	03/28/2013	18:20
FM0343A-CSD	680-88632-7	1DC28019.D	03/28/2013	18:42
FM0343B-CS	680-88632-8	1DC28020.D	03/28/2013	19:05
CV0090A-CS-SP	680-88632-9	1DC28021.D	03/28/2013	19:27
CV0092A-CS-SP	680-88632-11	1DC28022.D	03/28/2013	19:50
CV0092B-CS-SP	680-88632-12	1DC28023.D	03/28/2013	20:12
FM0312A-CS-SP	680-88632-13	1DC28024.D	03/28/2013	20:35
FM0312B-CS-SP	680-88632-14	1DC28025.D	03/28/2013	20:57
FM0312C-CS-SP	680-88632-15	1DC28026.D	03/28/2013	21:20
FM0312D-CS-SP	680-88632-16	1DC28027.D	03/28/2013	21:42

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

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

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

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

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

CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	740866	3.73	575327	4.82	1092531	5.76	
UPPER LIMIT	1481732	4.23	1150654	5.32	2185062	6.26	
LOWER LIMIT	370433	3.23	287664	4.32	546266	5.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135800/1-A	733449	3.73	569617	4.82	1053797	5.77	
LCS 660-135800/2-A	652625	3.73	502253	4.82	992616	5.76	
680-88592-A-19-B MS	788710	3.73	620741	4.82	1191395	5.76	
680-88592-A-19-C MSD	715305	3.73	593203	4.82	1086522	5.76	
680-88632-1	CV0697A-CS	724016	3.73	558333	4.82	1038557	5.76
680-88632-2	CV0697B-CS	796769	3.73	612155	4.82	1103007	5.76
680-88632-3	FM0341A-CS	799896	3.73	621862	4.82	1111089	5.76

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1389214	7.70	1427635	8.89		
UPPER LIMIT	2778428	8.20	2855270	9.39		
LOWER LIMIT	694607	7.20	713818	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135800/1-A		1355661	7.72	1428942	8.91	
LCS 660-135800/2-A		1311274	7.70	1340417	8.89	
680-88592-A-19-B MS		1439736	7.70	1443512	8.89	
680-88592-A-19-C MSD		1295155	7.70	1276318	8.89	
680-88632-1	CV0697A-CS	1143623	7.70	1099879	8.89	
680-88632-2	CV0697B-CS	1182748	7.70	1122681	8.89	
680-88632-3	FM0341A-CS	1181597	7.70	1135083	8.89	

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	797659	3.72	631634	4.81	1190245	5.76		
UPPER LIMIT	1595318	4.22	1263268	5.31	2380490	6.26		
LOWER LIMIT	398830	3.22	315817	4.31	595123	5.26		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-88632-17	CV0368A-CS-SP		939372	3.72	739730	4.81	1346455	5.76
680-88632-18	CV0368B-CS-SP		942036	3.72	740322	4.81	1327700	5.76
680-88632-19	CV0443A-CS-SP		949385	3.72	745111	4.81	1320447	5.76
680-88632-20	CV0443B-CS-SP		917180	3.72	703884	4.81	1277324	5.76

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1432718	7.70	1426297	8.89		
UPPER LIMIT	2865436	8.20	2852594	9.39		
LOWER LIMIT	716359	7.20	713149	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88632-17	CV0368A-CS-SP	1439328	7.70	1410351	8.89	
680-88632-18	CV0368B-CS-SP	1470381	7.70	1320652	8.89	
680-88632-19	CV0443A-CS-SP	1419591	7.70	1340808	8.89	
680-88632-20	CV0443B-CS-SP	1328645	7.70	1245350	8.89	

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	761650	3.72	604806	4.80	1101759	5.76		
UPPER LIMIT	1523300	4.22	1209612	5.30	2203518	6.26		
LOWER LIMIT	380825	3.22	302403	4.30	550880	5.26		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 660-135843/1-A			615973	3.72	487906	4.80	918261	5.75
LCS 660-135843/2-A			624323	3.72	524237	4.80	955931	5.75
680-88632-10		CV0090B-CS-SP	716386	3.72	533576	4.80	1031335	5.75
680-88632-10 MS		CV0090B-CS-SP MS	655029	3.72	516035	4.80	936821	5.75
680-88632-10 MSD		CV0090B-CS-SP MSD	691250	3.72	560459	4.80	1008510	5.75

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

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

# Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-135996/3 Date Analyzed: 04/01/2013 11:31  
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1CD01003.D Heated Purge: (Y/N) N  
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1332309	7.70	1345071	8.89		
UPPER LIMIT	2664618	8.20	2690142	9.39		
LOWER LIMIT	666155	7.20	672536	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135843/1-A		1067842	7.69	1091075	8.87	
LCS 660-135843/2-A		1186437	7.69	1208573	8.87	
680-88632-10	CV0090B-CS-SP	1197734	7.69	1194441	8.87	
680-88632-10 MS	CV0090B-CS-SP MS	1084495	7.69	1027644	8.87	
680-88632-10 MSD	CV0090B-CS-SP MSD	1100421	7.69	1067194	8.87	

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

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

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

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

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

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3447549	6.10	2210474	7.78	3698385	9.04	
UPPER LIMIT	6895098	6.60	4420948	8.28	7396770	9.54	
LOWER LIMIT	1723775	5.60	1105237	7.28	1849193	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135822/1-A		3397993	6.10	2207708	7.78	3627662	9.04
LCS 660-135822/2-A		3559975	6.10	2302268	7.78	3843730	9.04
680-88592-A-21-B MS		3558914	6.10	2282337	7.78	3768115	9.04
680-88592-A-21-C MSD		3608549	6.10	2329630	7.78	3894748	9.04
680-88632-4	FM0341B-CS	3582780	6.10	2374347	7.78	3915080	9.04
680-88632-5	FM0341C-GS	3672729	6.10	2373822	7.78	3972113	9.04
680-88632-6	FM0343A-CS	3731977	6.10	2433375	7.78	4057165	9.05
680-88632-7	FM0343A-CSD	4016518	6.11	2604044	7.78	4346506	9.05
680-88632-8	FM0343B-CS	3758897	6.11	2412476	7.78	4006740	9.04
680-88632-9	CV0090A-CS-SP	3795129	6.11	2484528	7.78	4171365	9.05
680-88632-11	CV0092A-CS-SP	3751899	6.11	2415372	7.78	3995465	9.05
680-88632-12	CV0092B-CS-SP	3938449	6.10	2523788	7.78	4189099	9.05
680-88632-13	FM0312A-CS-SP	3754877	6.11	2445655	7.78	4100466	9.05
680-88632-14	FM0312B-CS-SP	3892746	6.11	2510492	7.79	4125368	9.05
680-88632-15	FM0312C-CS-SP	4164069	6.11	2640416	7.79	4478238	9.05
680-88632-16	FM0312D-CS-SP	3932955	6.11	2529464	7.79	4203473	9.05

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Sample No.: CCVIS 660-136038/9 Date Analyzed: 03/28/2013 14:57  
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)  
 Lab File ID (Standard): 1DC28009.D Heated Purge: (Y/N) N  
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	3890381	11.37	4013621	13.22		
UPPER LIMIT	7780762	11.87	8027242	13.72		
LOWER LIMIT	1945191	10.87	2006811	12.72		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135822/1-A		3652900	11.37	3883149	13.22	
LCS 660-135822/2-A		3972248	11.37	4089168	13.22	
680-88592-A-21-B MS		3819813	11.37	3970099	13.22	
680-88592-A-21-C MSD		3914233	11.37	4038676	13.22	
680-88632-4	FM0341B-CS	4022037	11.37	4185217	13.23	
680-88632-5	FM0341C-GS	4084905	11.37	4280381	13.23	
680-88632-6	FM0343A-CS	4126662	11.37	4341752	13.23	
680-88632-7	FM0343A-CSD	4447443	11.38	4660357	13.24	
680-88632-8	FM0343B-CS	4140560	11.38	4283043	13.23	
680-88632-9	CV0090A-CS-SP	4214033	11.38	4339115	13.23	
680-88632-11	CV0092A-CS-SP	4224529	11.37	4223931	13.23	
680-88632-12	CV0092B-CS-SP	4266900	11.38	4332418	13.24	
680-88632-13	FM0312A-CS-SP	4176455	11.38	3983220	13.25	
680-88632-14	FM0312B-CS-SP	4362632	11.38	4174107	13.24	
680-88632-15	FM0312C-CS-SP	4545599	11.38	4388016	13.24	
680-88632-16	FM0312D-CS-SP	4383306	11.38	4192886	13.25	

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.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0697A-CS Lab Sample ID: 680-88632-1  
 Matrix: Solid Lab File ID: 1CC27027.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 08:25  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.40 (g) Date Analyzed: 03/27/2013 18:08  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 21.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	16	J	50	6.2
120-12-7	Anthracene	23		10	5.2
56-55-3	Benzo[a]anthracene	140		9.9	4.8
50-32-8	Benzo[a]pyrene	140		13	6.4
205-99-2	Benzo[b]fluoranthene	210		15	7.6
191-24-2	Benzo[g,h,i]perylene	120		25	5.4
207-08-9	Benzo[k]fluoranthene	72		9.9	4.5
218-01-9	Chrysene	180		11	5.6
53-70-3	Dibenz(a,h)anthracene	33		25	5.1
206-44-0	Fluoranthene	190		25	5.0
86-73-7	Fluorene	18	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	82		25	8.8
90-12-0	1-Methylnaphthalene	82		50	5.4
91-57-6	2-Methylnaphthalene	110		50	8.8
91-20-3	Naphthalene	95		50	5.4
85-01-8	Phenanthrene	170		9.9	4.8
129-00-0	Pyrene	180		25	4.6

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\1C032713.b\1CC27027.D  
 Lab Smp Id: 680-88632-A-1-A Client Smp ID: CV0697A-CS  
 Inj Date : 27-MAR-2013 18:08  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-1-a  
 Misc Info : 680-88632-A-1-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.400	Weight Extracted
M	21.304	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	724016	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	558333	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1038557	40.0000		
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	134264	8.56251	706.5287	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1143623	40.0000		
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1099879	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	21694	1.15094	94.9692	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	16582	1.31886	108.8242	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	11447	0.99965	82.4852	
5 Acenaphthylene	152		4.727	4.727	(0.982)	4358	0.19360	15.9748	
9 Fluorene	166		5.151	5.157	(1.070)	3957	0.22363	18.4524(Q)	
11 Phenanthrene	178		5.780	5.780	(1.003)	62731	2.08891	172.3647	
12 Anthracene	178		5.816	5.815	(1.009)	8030	0.27341	22.5603	
13 Carbazole	167		5.921	5.921	(1.028)	7438	0.28490	23.5081	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.616	6.615 (1.148)	75732	2.30279	190.0131	
16 Pyrene	202	6.786	6.786 (0.881)	67651	2.20123	181.6329	
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)	54549	1.65264	136.3662	
19 Chrysene	228	7.721	7.727 (1.002)	73986	2.23983	184.8177	
20 Benzo(b)fluoranthene	252	8.545	8.539 (0.961)	72727	2.53017	208.7748(M)	
21 Benzo(k)fluoranthene	252	8.557	8.562 (0.962)	25825	0.87582	72.2671(M)	
22 Benzo(a)pyrene	252	8.833	8.833 (0.993)	47146	1.68862	139.3354	
24 Indeno(1,2,3-cd)pyrene	276	10.051	10.050 (1.130)	26025	0.99088	81.7614(M)	
25 Dibenzo(a,h)anthracene	278	10.062	10.068 (1.132)	10119	0.39388	32.5008(M)	
26 Benzo(g,h,i)perylene	276	10.404	10.397 (1.170)	40393	1.47017	121.3102	

QC Flag Legend

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

Data File: 1CC27027.D

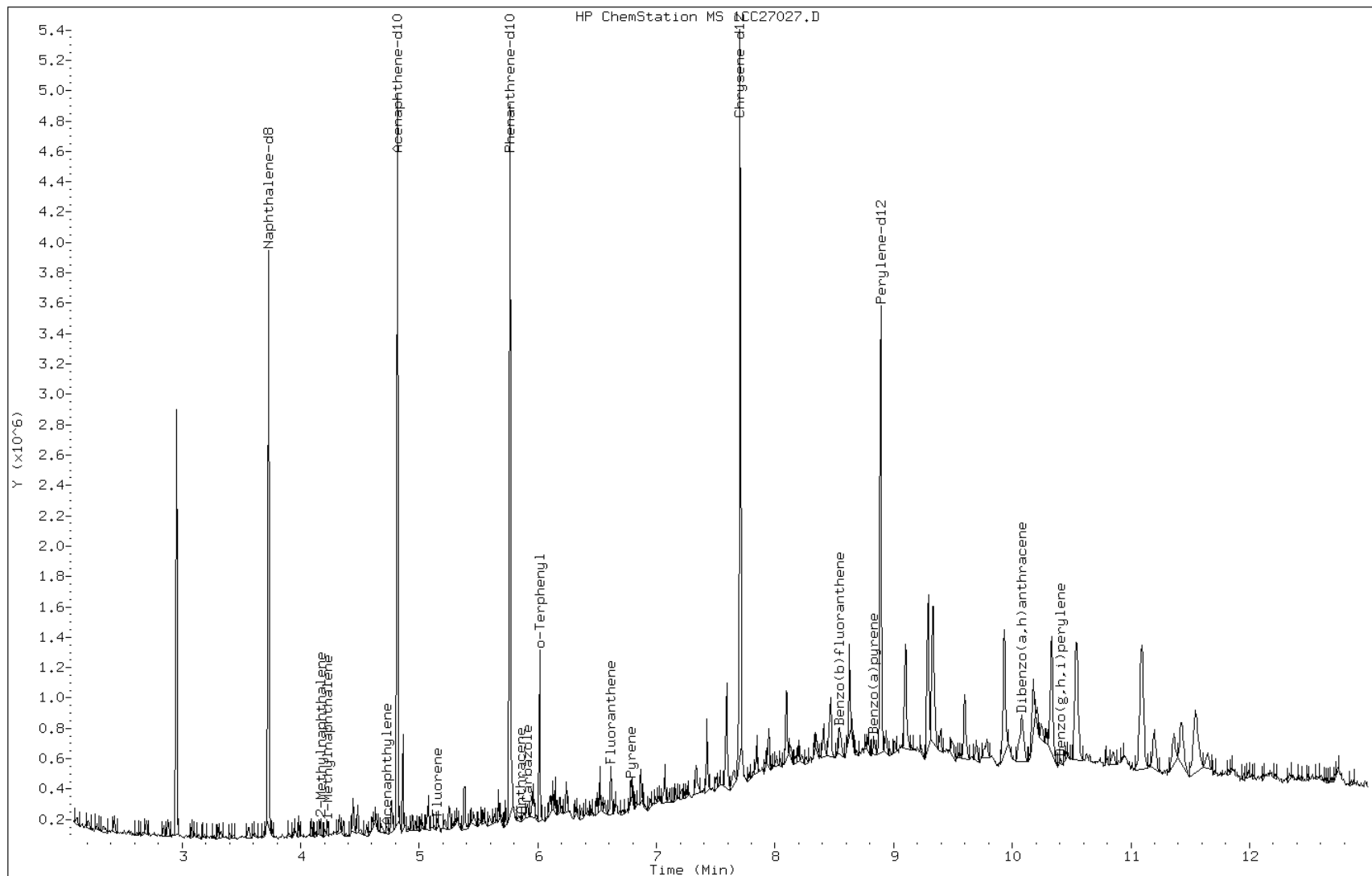
Date: 27-MAR-2013 18:08

Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

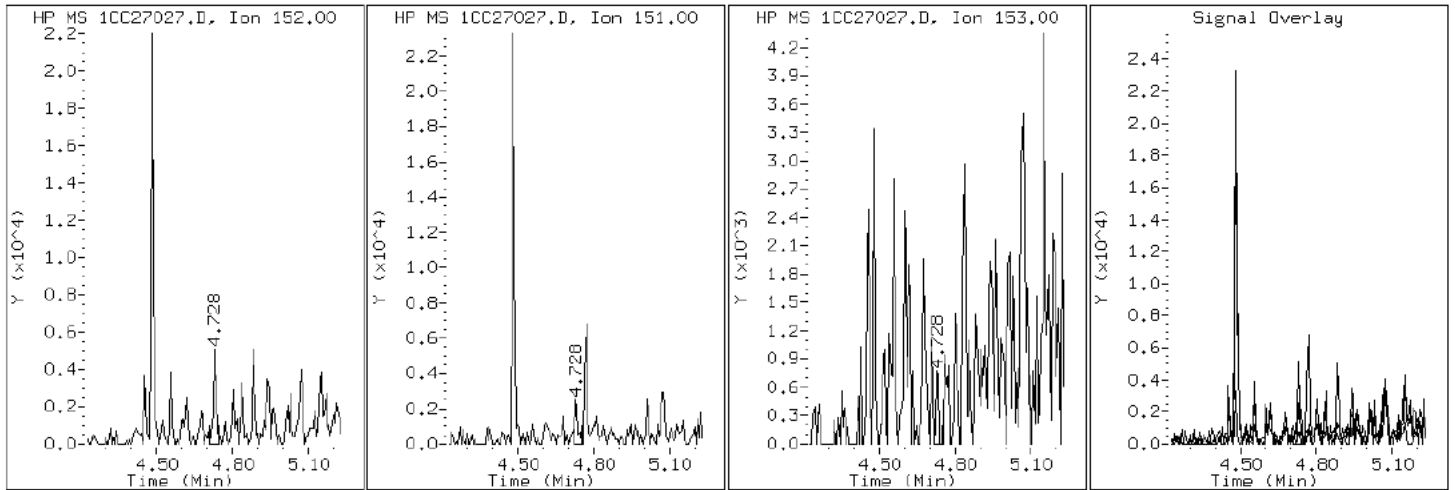
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

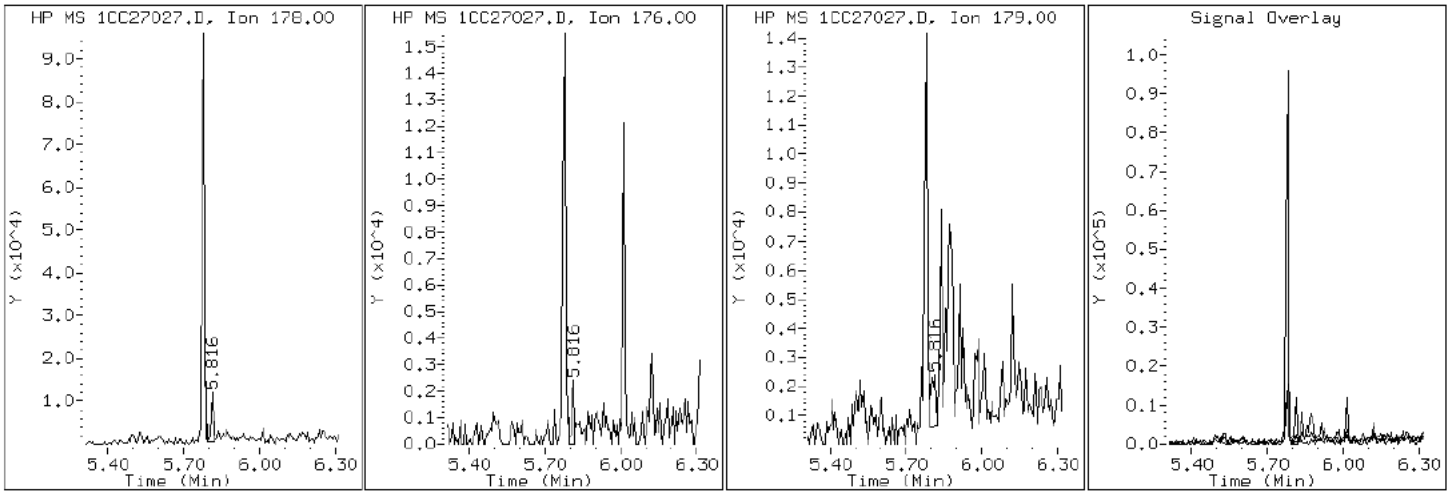
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

12 Anthracene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

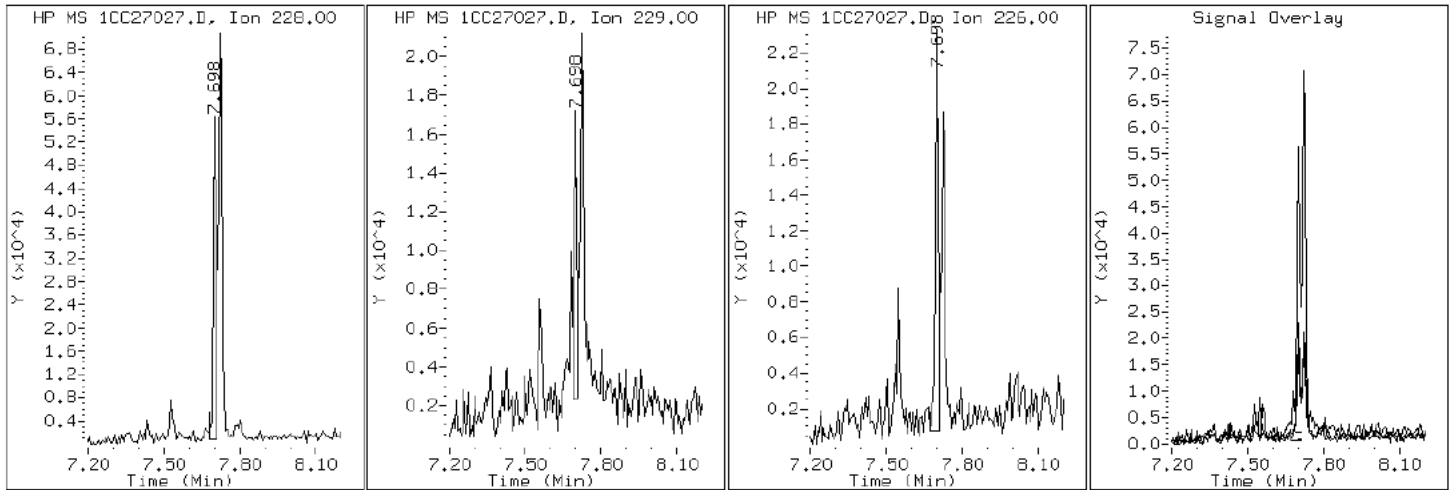
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

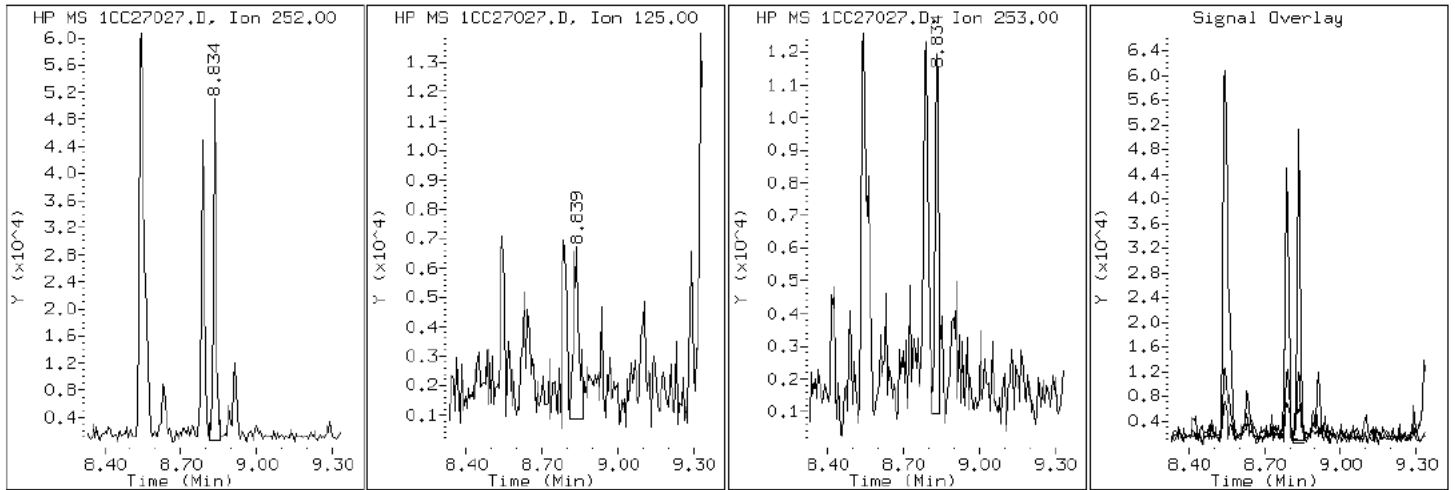
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

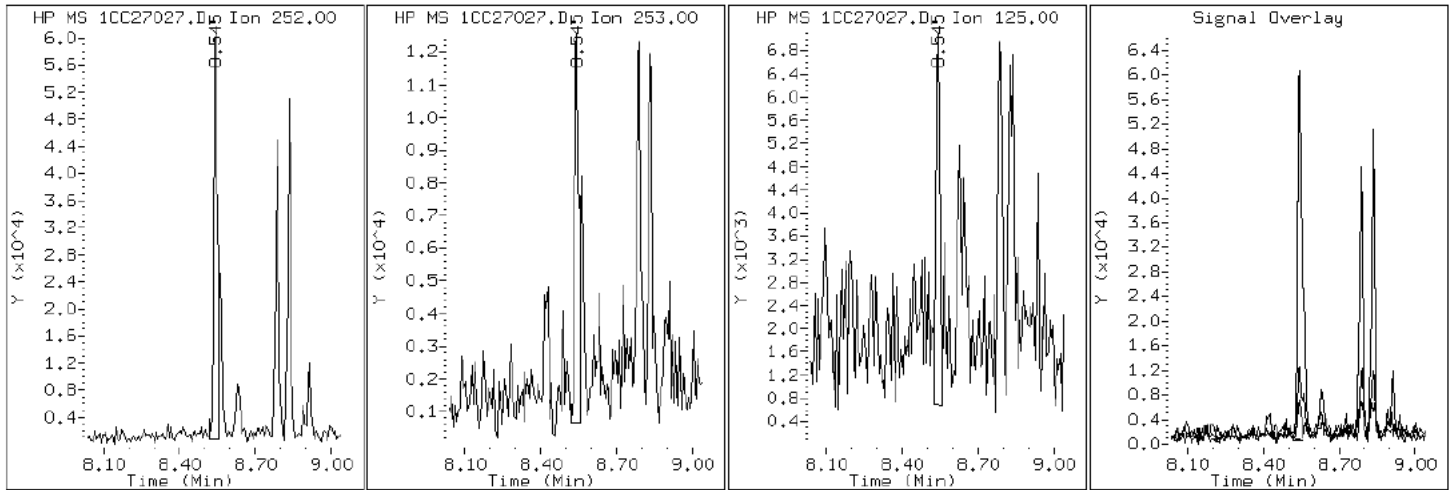
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

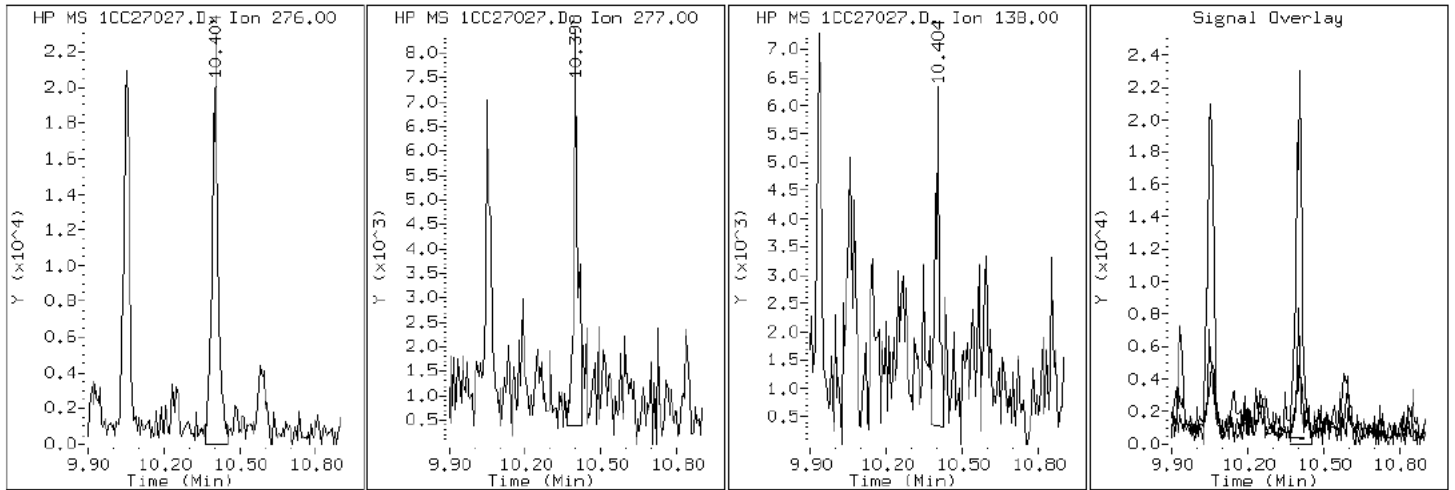
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

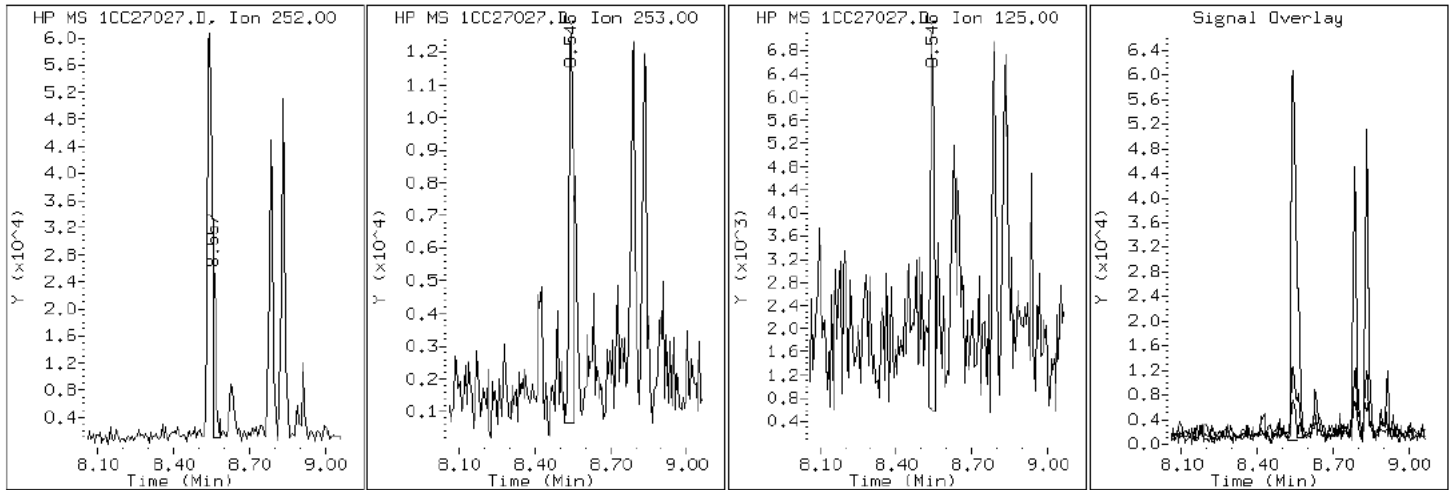
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

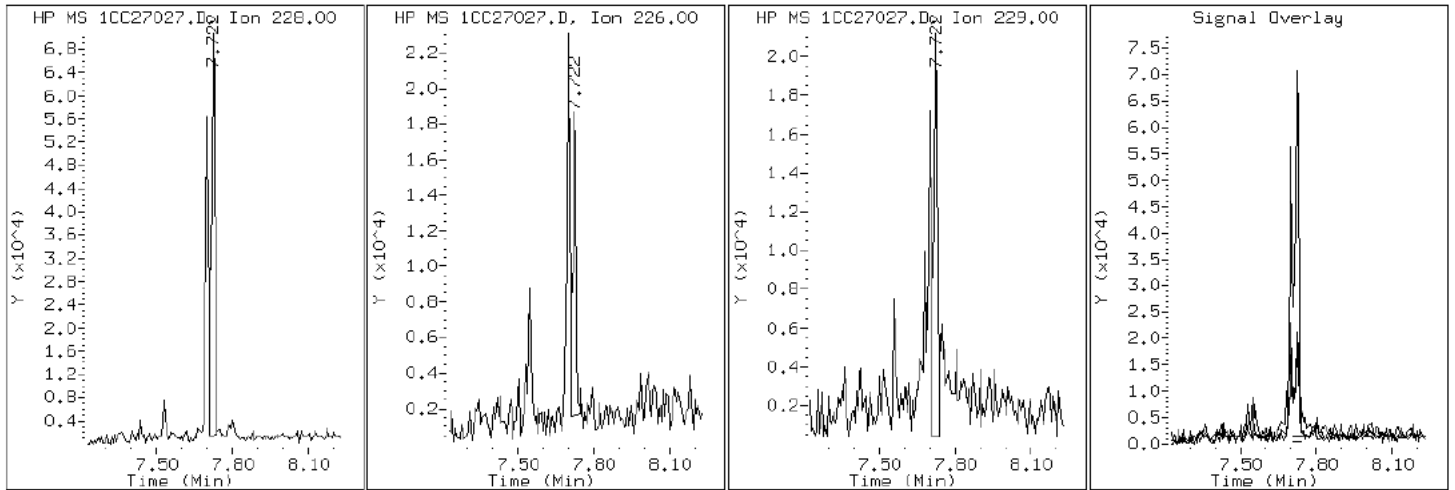
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

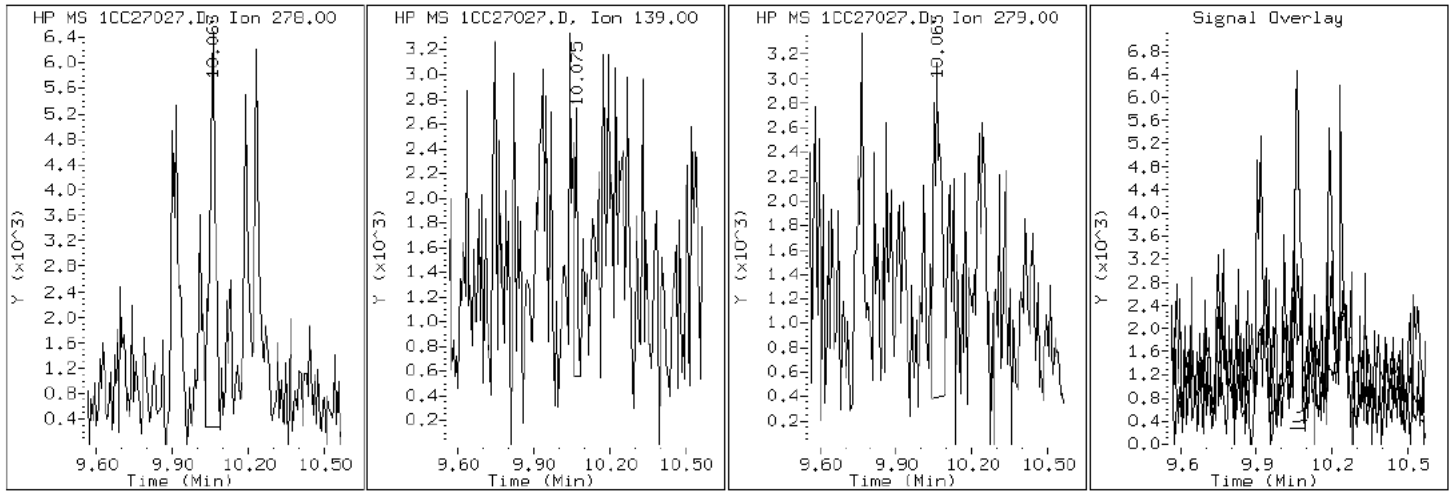
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

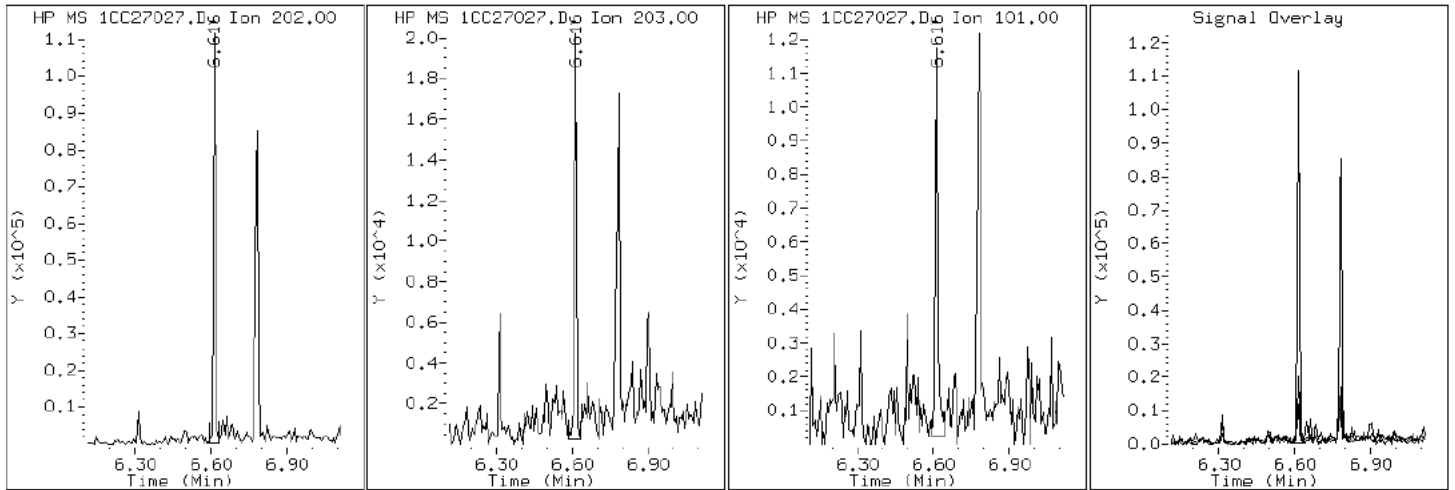
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

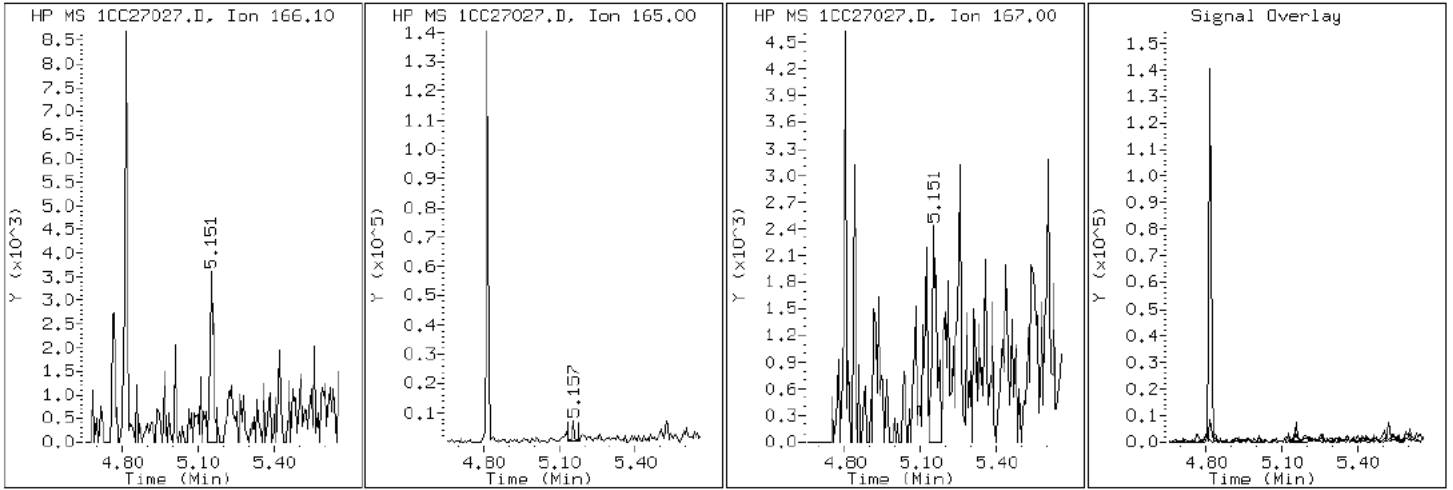
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

9 Fluorene





Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

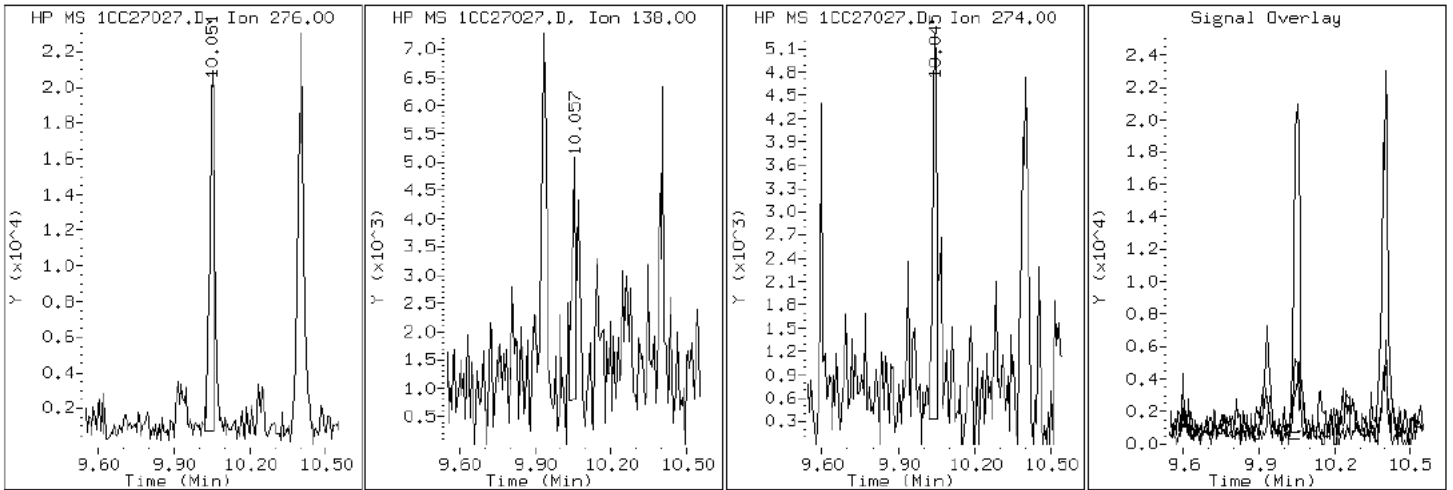
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

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



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

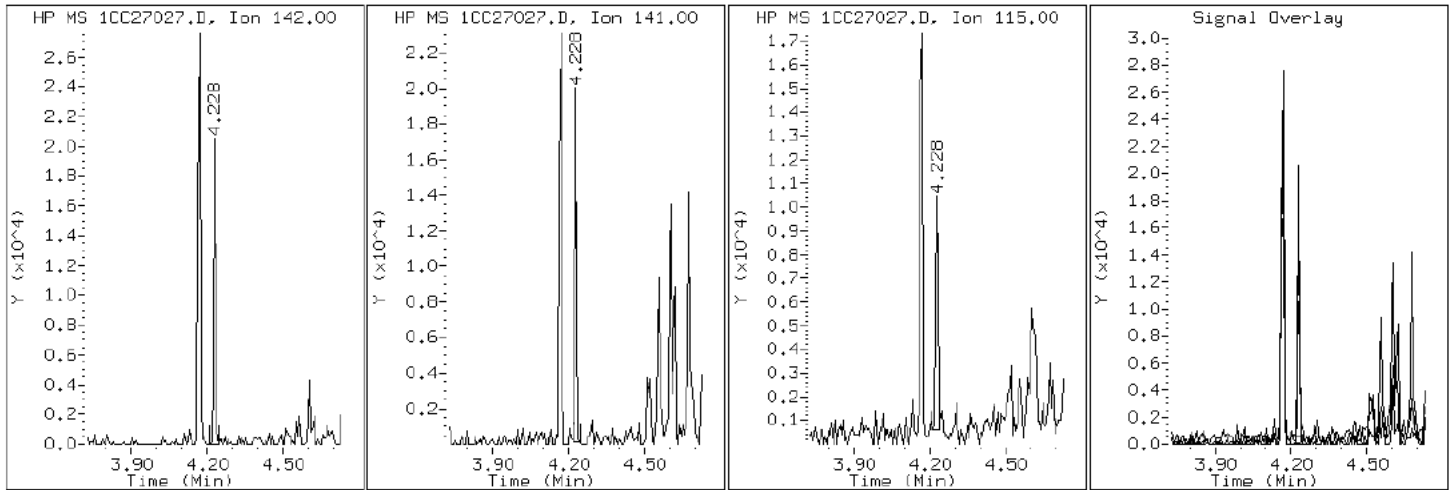
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

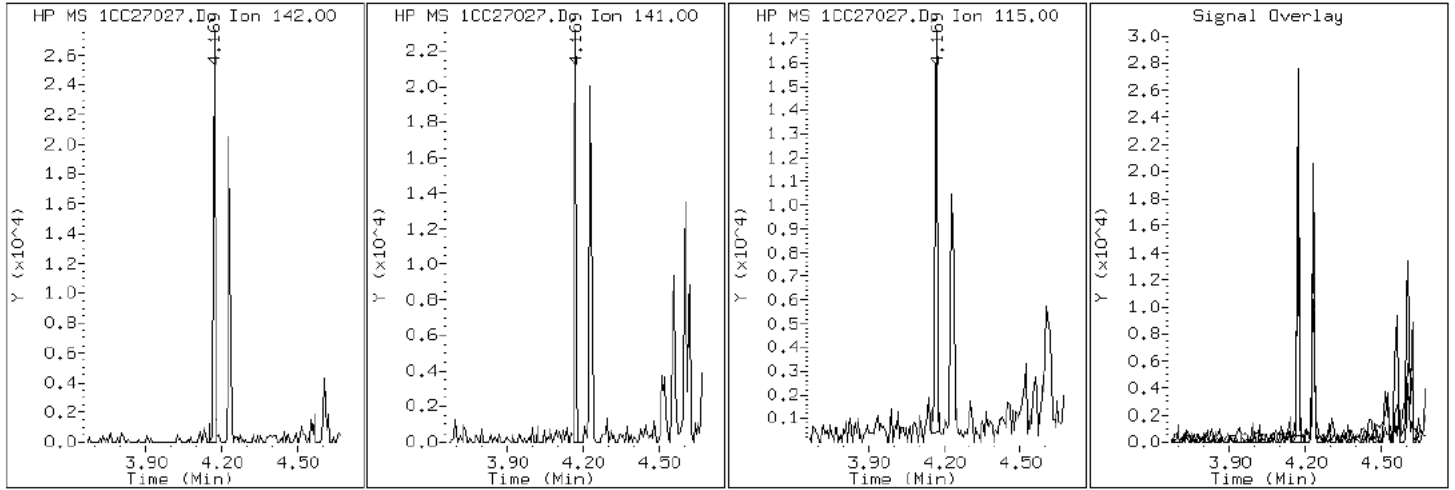
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

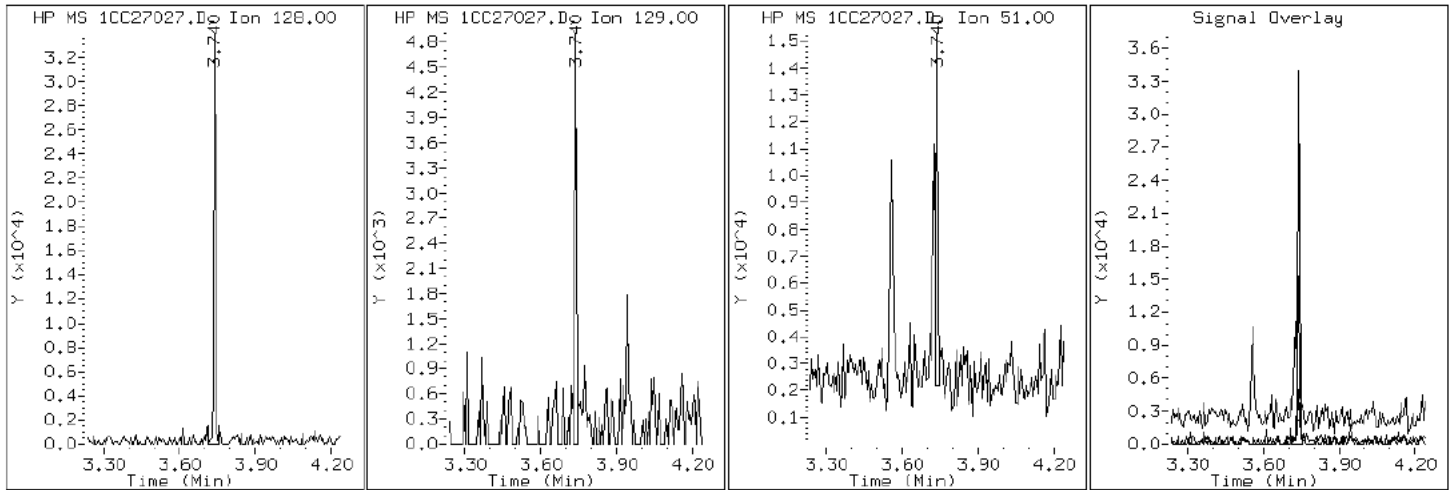
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

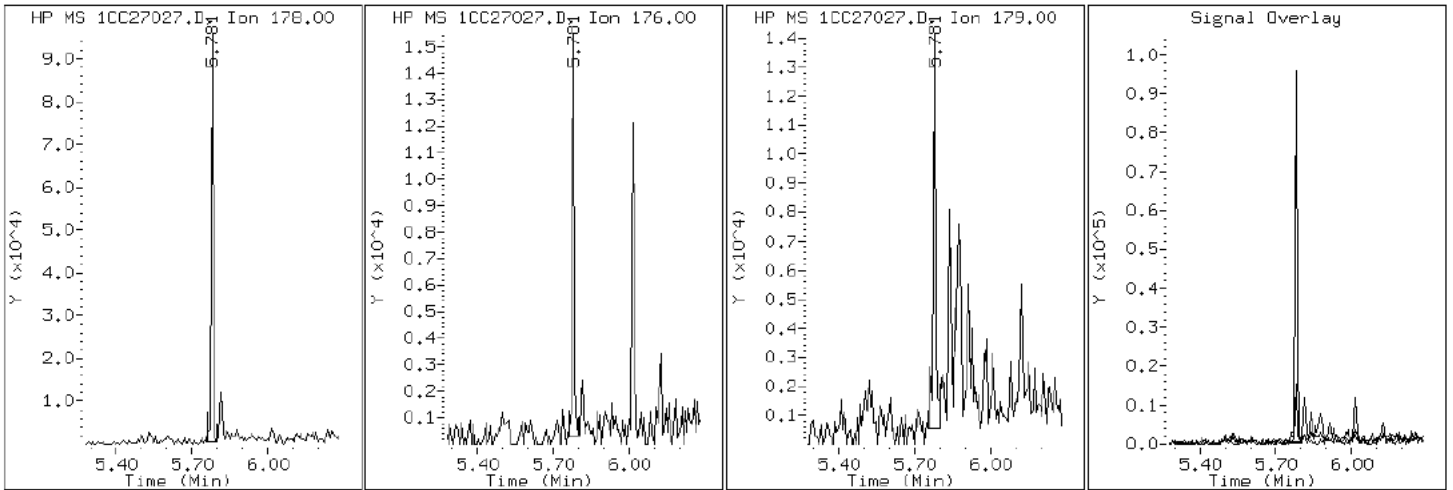
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27027.D

Date: 27-MAR-2013 18:08

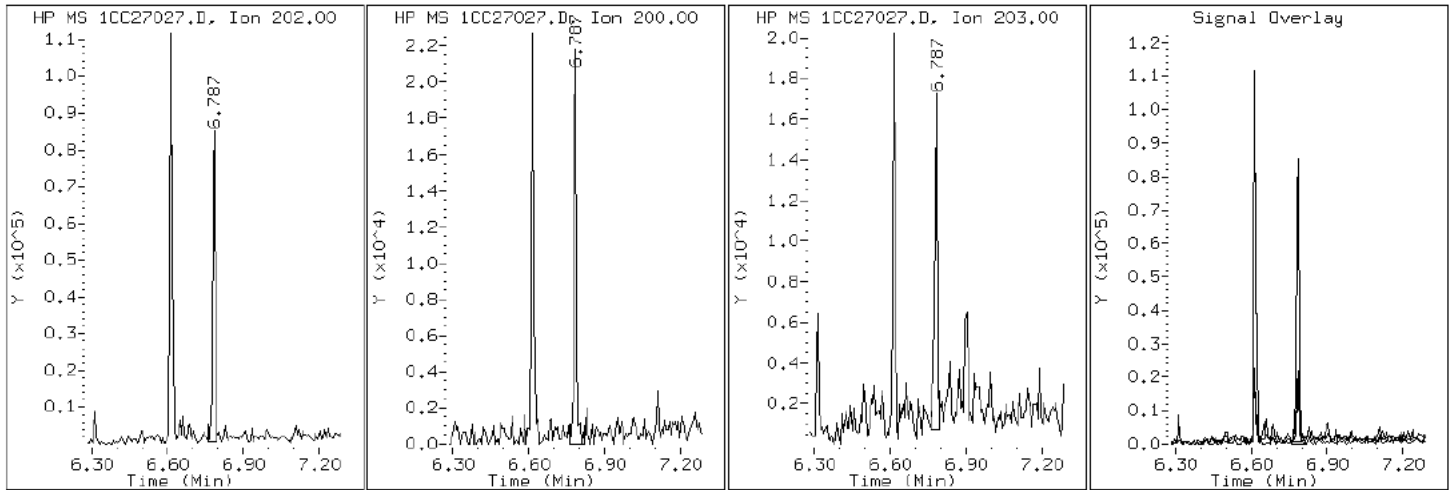
Client ID: CV0697A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-1-a

Operator: SCC

16 Pyrene

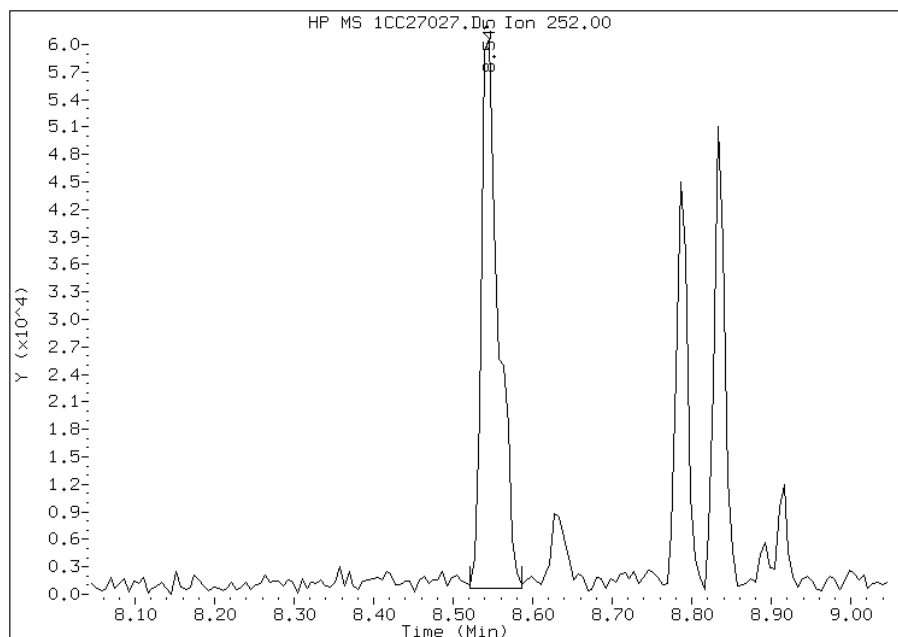


# Manual Integration Report

Data File: 1CC27027.D  
Inj. Date and Time: 27-MAR-2013 18:08  
Instrument ID: BSMC5973.i  
Client ID: CV0697A-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

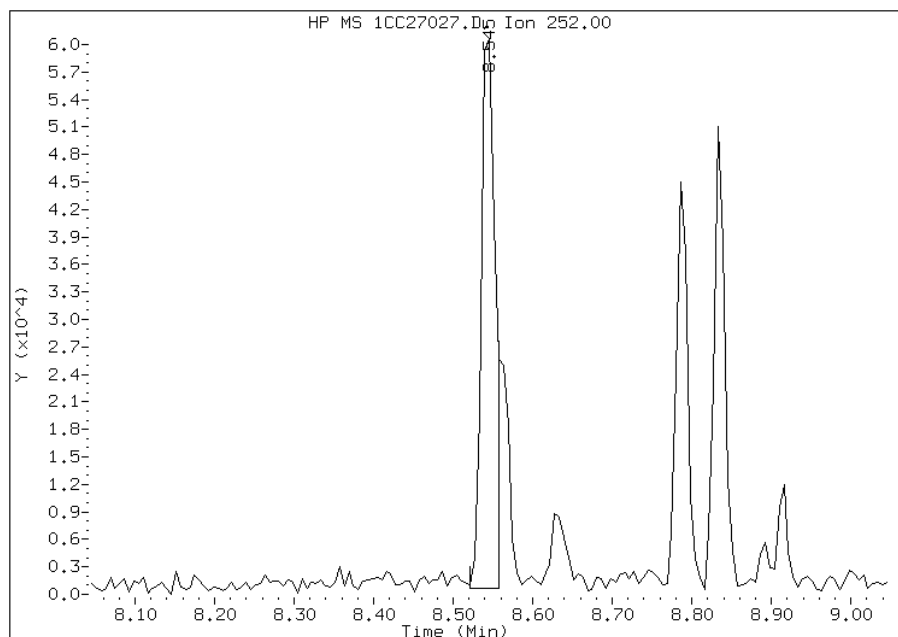
## Processing Integration Results

RT: 8.55  
Response: 90190  
Amount: 3  
Conc: 259



## Manual Integration Results

RT: 8.55  
Response: 72727  
Amount: 3  
Conc: 209



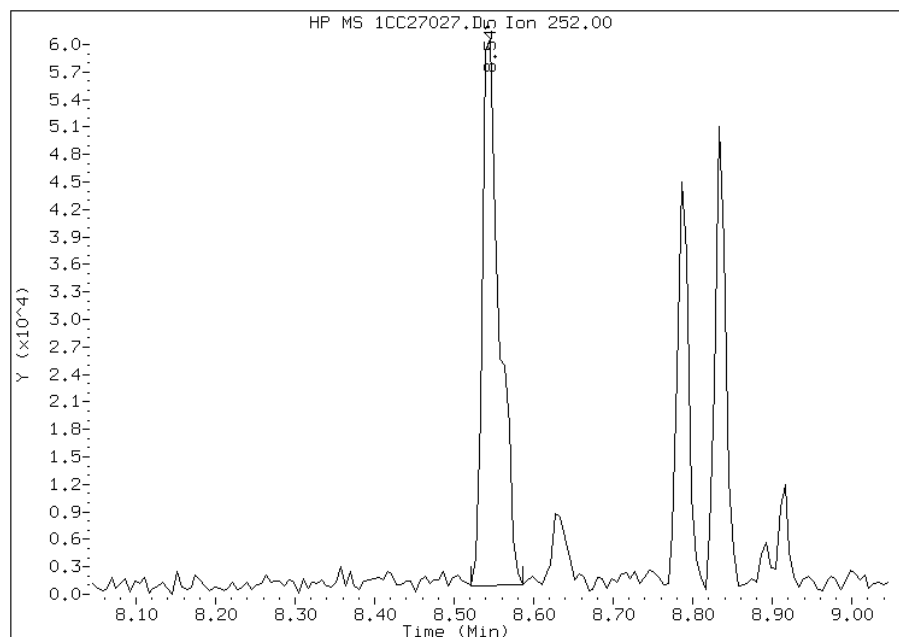
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:32  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27027.D  
Inj. Date and Time: 27-MAR-2013 18:08  
Instrument ID: BSMC5973.i  
Client ID: CV0697A-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

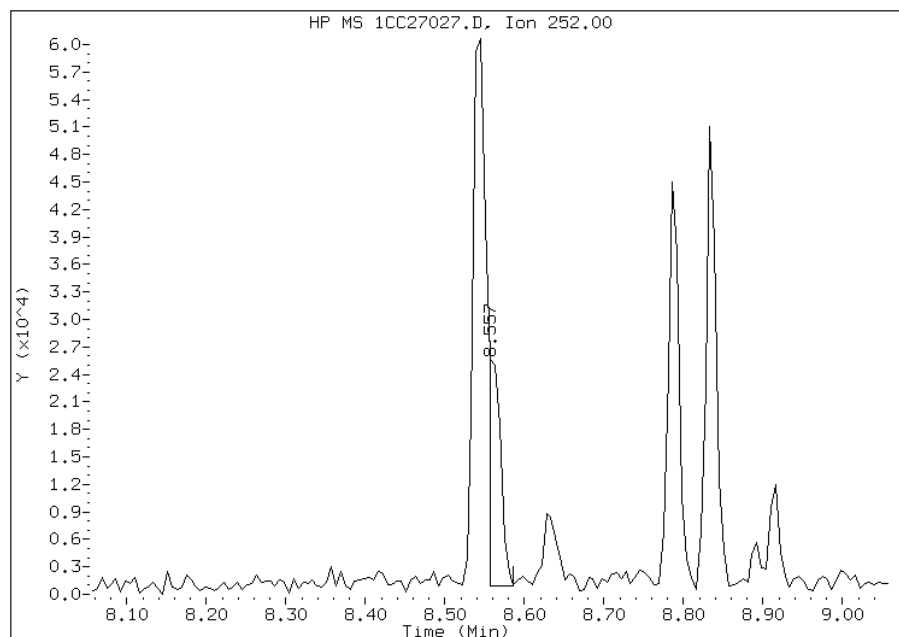
## Processing Integration Results

RT: 8.55  
Response: 89053  
Amount: 3  
Conc: 249



## Manual Integration Results

RT: 8.56  
Response: 25825  
Amount: 1  
Conc: 72



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:32  
Manual Integration Reason: Baseline Event

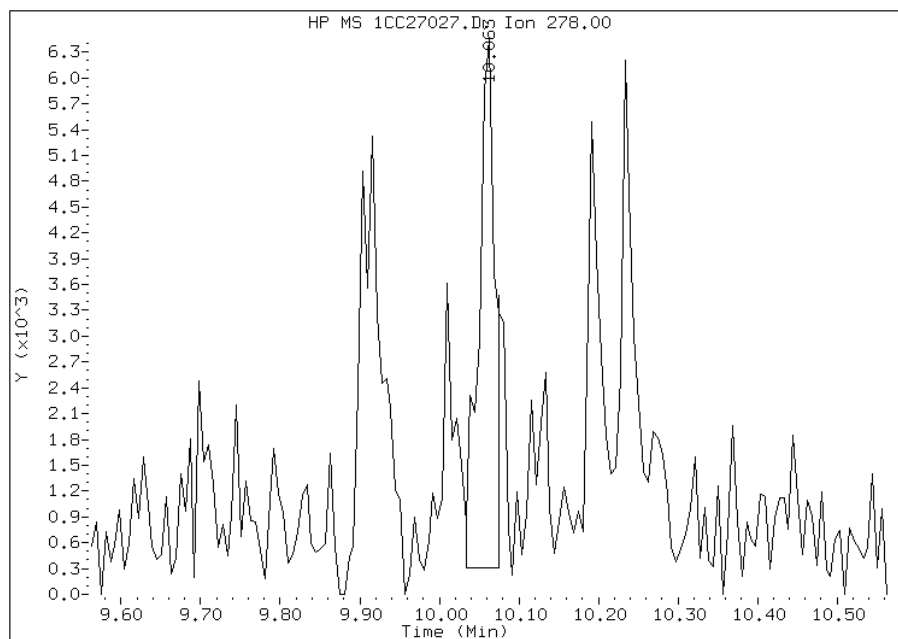


# Manual Integration Report

Data File: 1CC27027.D  
Inj. Date and Time: 27-MAR-2013 18:08  
Instrument ID: BSMC5973.i  
Client ID: CV0697A-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/01/2013

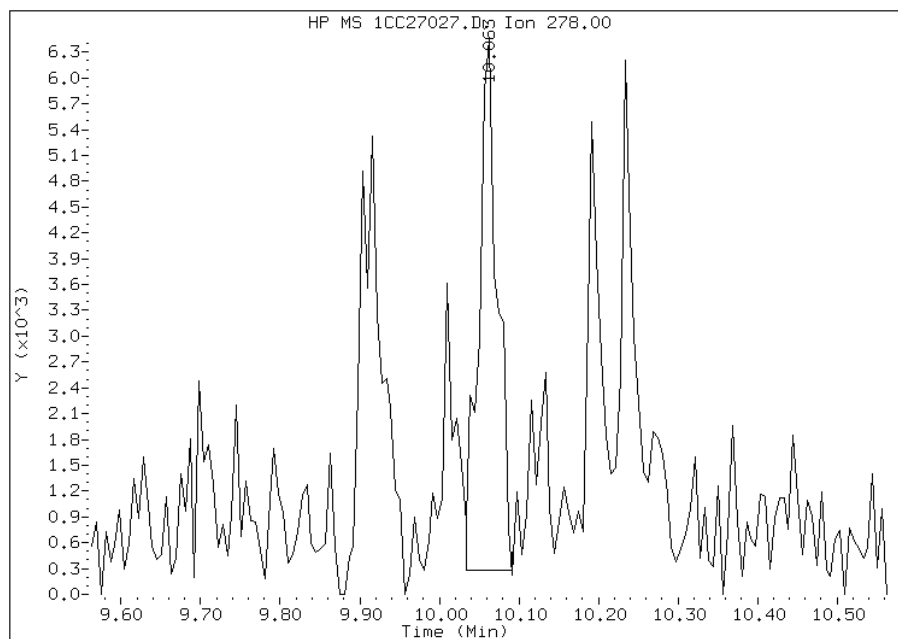
## Processing Integration Results

RT: 10.06  
Response: 8861  
Amount: 0  
Conc: 28



## Manual Integration Results

RT: 10.06  
Response: 10119  
Amount: 0  
Conc: 33



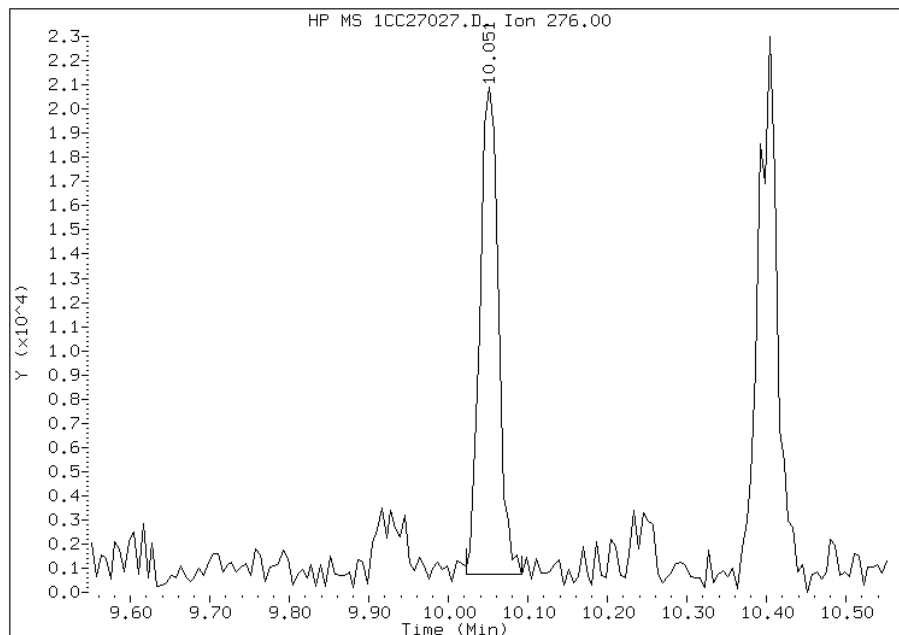
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:33  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27027.D  
Inj. Date and Time: 27-MAR-2013 18:08  
Instrument ID: BSMC5973.i  
Client ID: CV0697A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

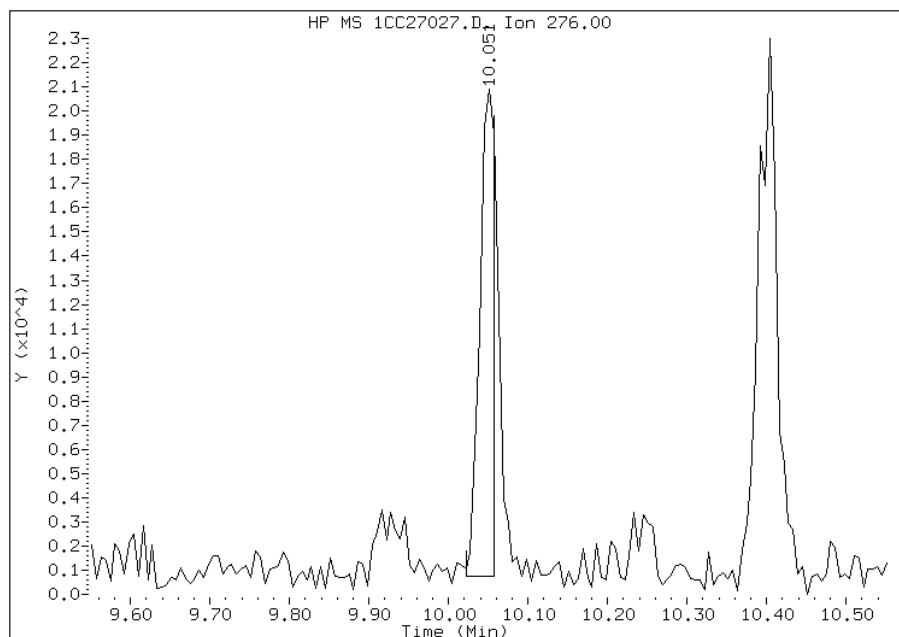
## Processing Integration Results

RT: 10.05  
Response: 32226  
Amount: 1  
Conc: 101



## Manual Integration Results

RT: 10.05  
Response: 26025  
Amount: 1  
Conc: 82



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:33  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0697B-CS Lab Sample ID: 680-88632-2  
 Matrix: Solid Lab File ID: 1CC27028.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 08:40  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.32(g) Date Analyzed: 03/27/2013 18:26  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.4 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	32	J	41	21
56-55-3	Benzo[a]anthracene	120		39	19
50-32-8	Benzo[a]pyrene	98		51	26
205-99-2	Benzo[b]fluoranthene	160		60	30
191-24-2	Benzo[g,h,i]perylene	140		98	22
207-08-9	Benzo[k]fluoranthene	130		39	18
218-01-9	Chrysene	190		44	22
53-70-3	Dibenz(a,h)anthracene	58	J	98	20
206-44-0	Fluoranthene	130		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	110		98	35
90-12-0	1-Methylnaphthalene	59	J	200	22
91-57-6	2-Methylnaphthalene	93	J	200	35
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	150		39	19
129-00-0	Pyrene	150		98	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27028.D  
 Lab Smp Id: 680-88632-A-2-A Client Smp ID: CV0697B-CS  
 Inj Date : 27-MAR-2013 18:26  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-2-a  
 Misc Info : 680-88632-A-2-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 28  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	20.449	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	796769	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	612155	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1103007	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	27860	1.67292	549.0765	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1182748	40.0000		
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1122681	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	8985	0.43316	142.1694(Q)	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	3916	0.28302	92.8916	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	2265	0.17974	58.9926	
11 Phenanthrene	178		5.780	5.780	(1.003)	14301	0.44839	147.1682	
12 Anthracene	178		5.815	5.815	(1.009)	3019	0.09679	31.7668	
13 Carbazole	167		5.921	5.921	(1.028)	2630	0.09485	31.1314	
15 Fluoranthene	202		6.615	6.615	(1.148)	13323	0.38144	125.1952	
16 Pyrene	202		6.786	6.786	(0.881)	14459	0.45491	149.3065	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.704	7.698 (1.000)		12497	0.36609	120.1561
19 Chrysene	228	7.727	7.727 (1.003)		19667	0.57570	188.9523
20 Benzo(b)fluoranthene	252	8.545	8.539 (0.961)		14088	0.48017	157.5976(M)
21 Benzo(k)fluoranthene	252	8.556	8.562 (0.962)		12359	0.41062	134.7727(QM)
22 Benzo(a)pyrene	252	8.833	8.833 (0.993)		8490	0.29791	97.7782
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050 (1.130)		8818	0.32892	107.9557(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.068 (1.133)		4601	0.17546	57.5873(M)
26 Benzo(g,h,i)perylene	276	10.409	10.397 (1.171)		11569	0.41252	135.3957(MH)

QC Flag Legend

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

Data File: 1CC27028.D

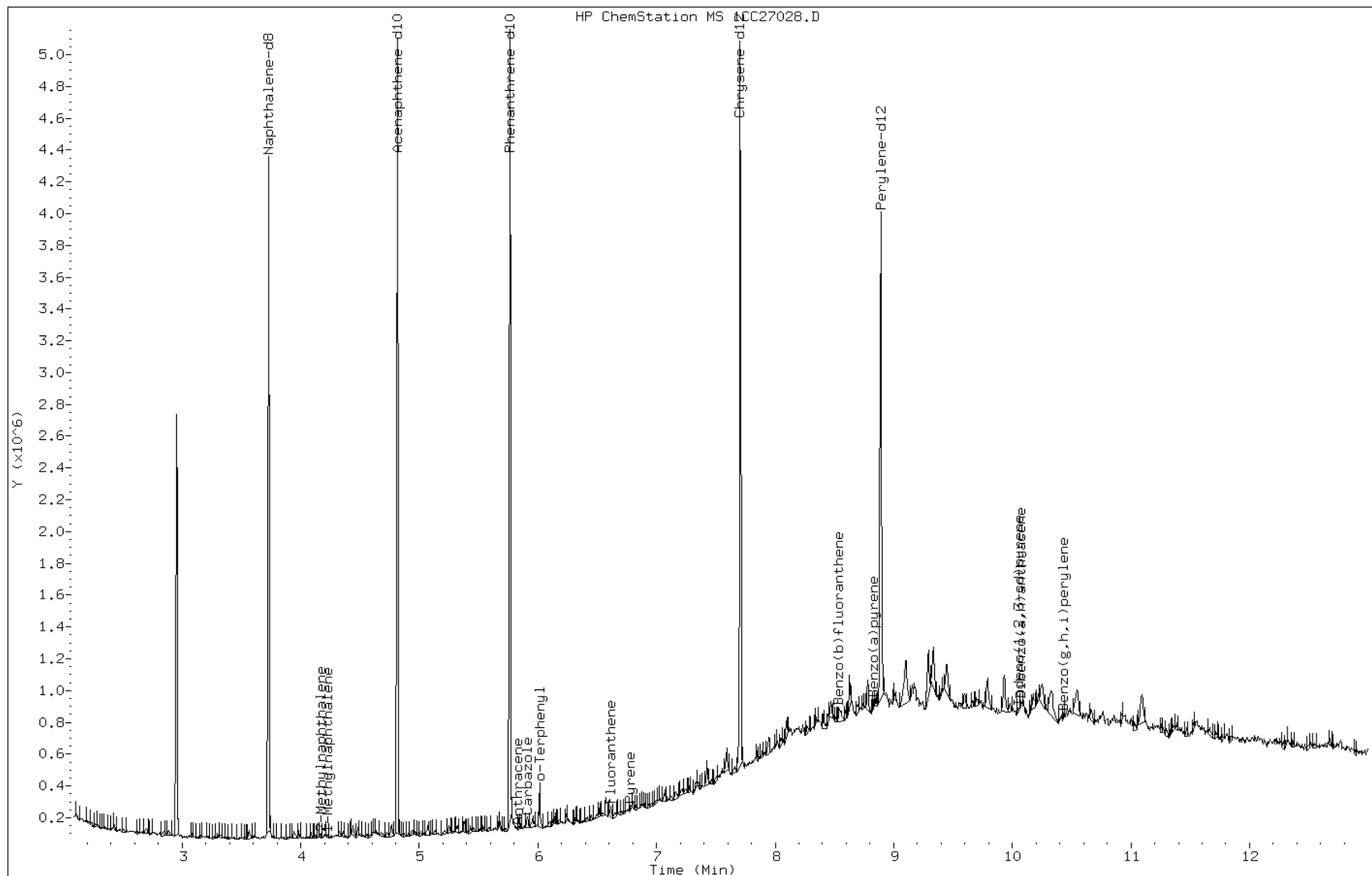
Date: 27-MAR-2013 18:26

Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

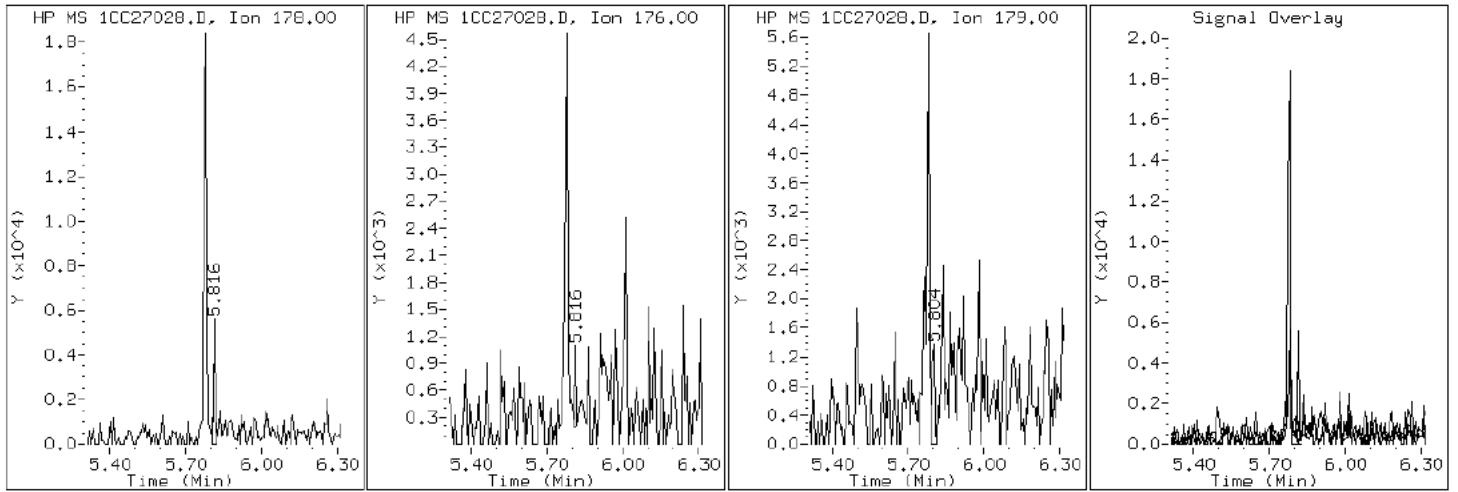
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

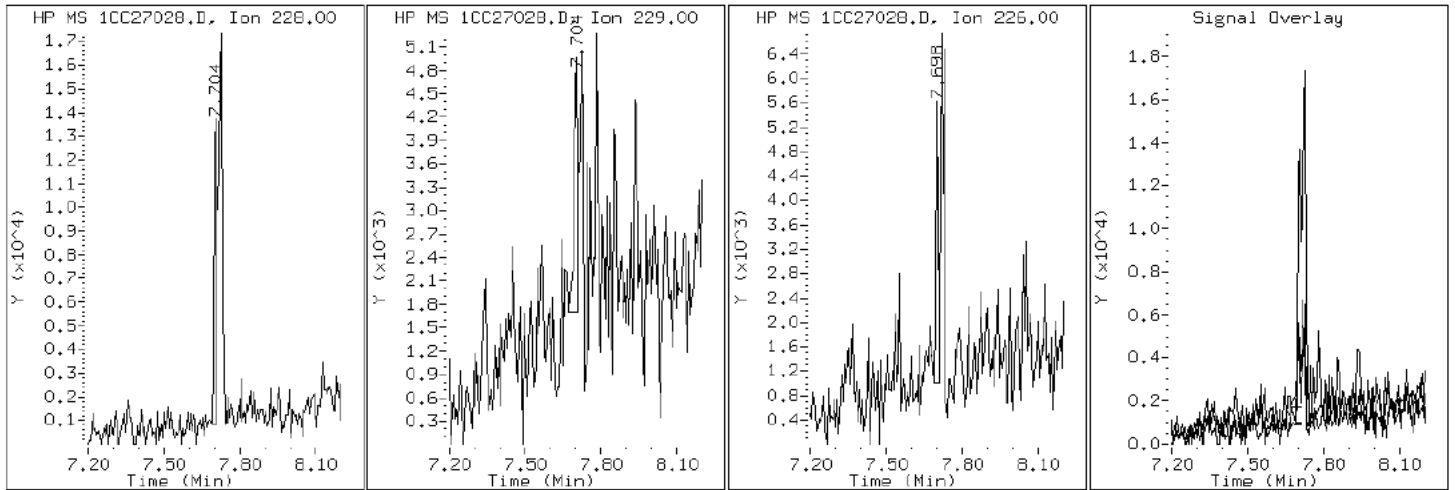
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

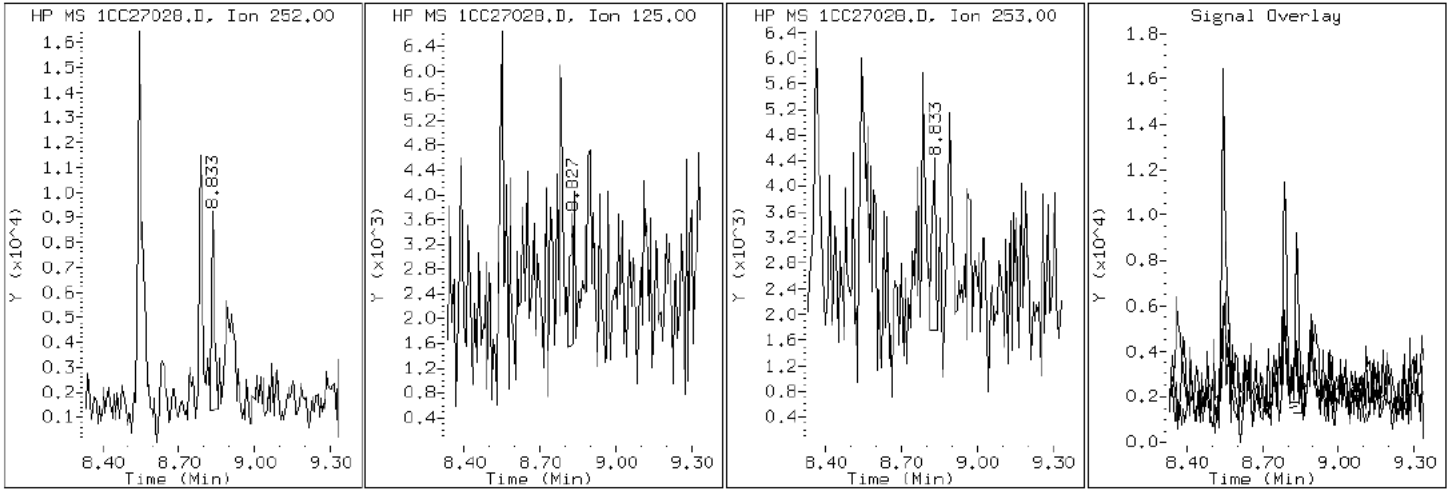
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

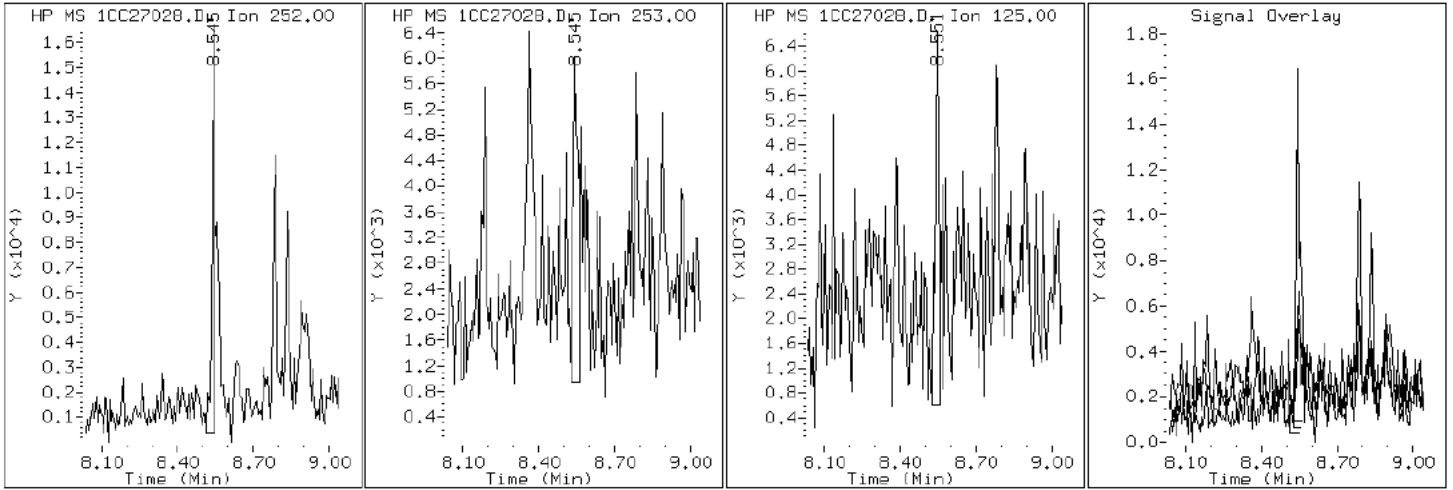
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

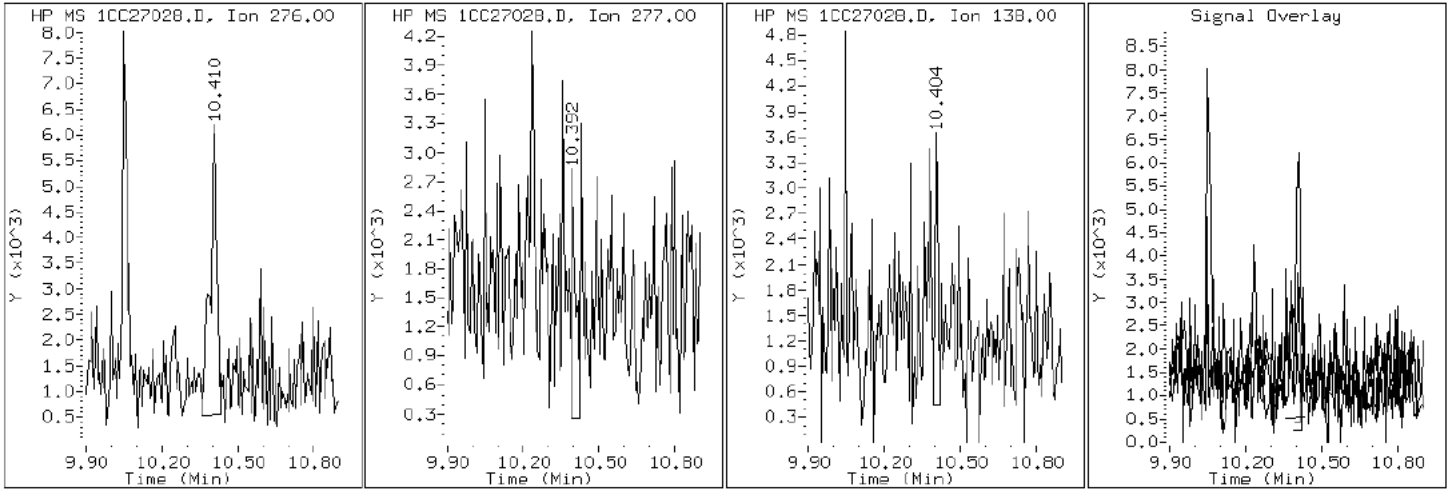
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

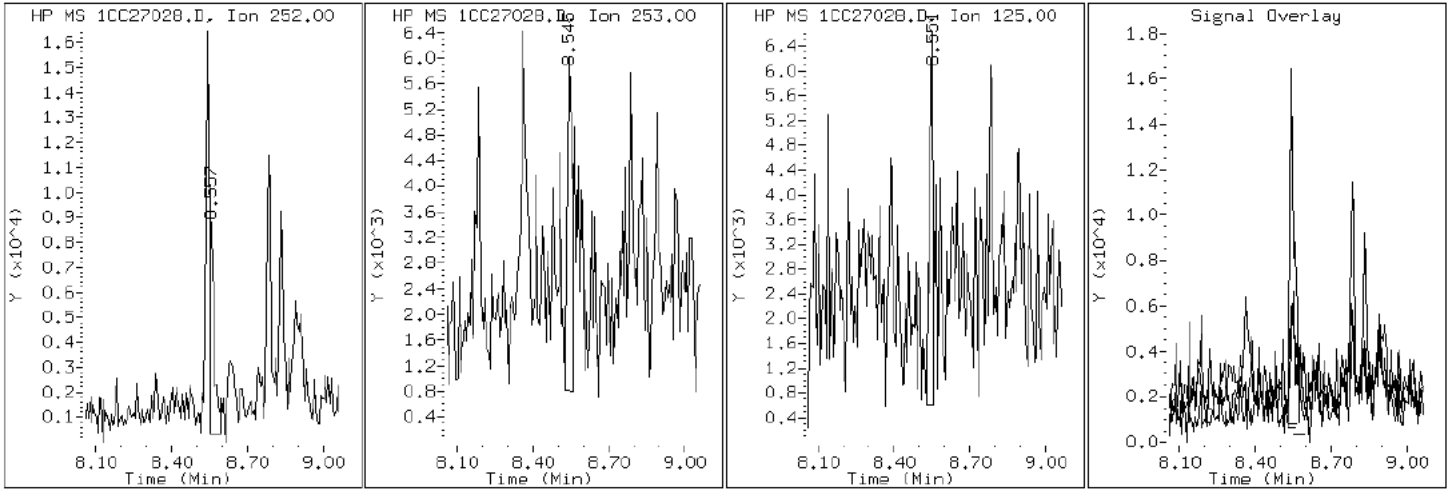
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

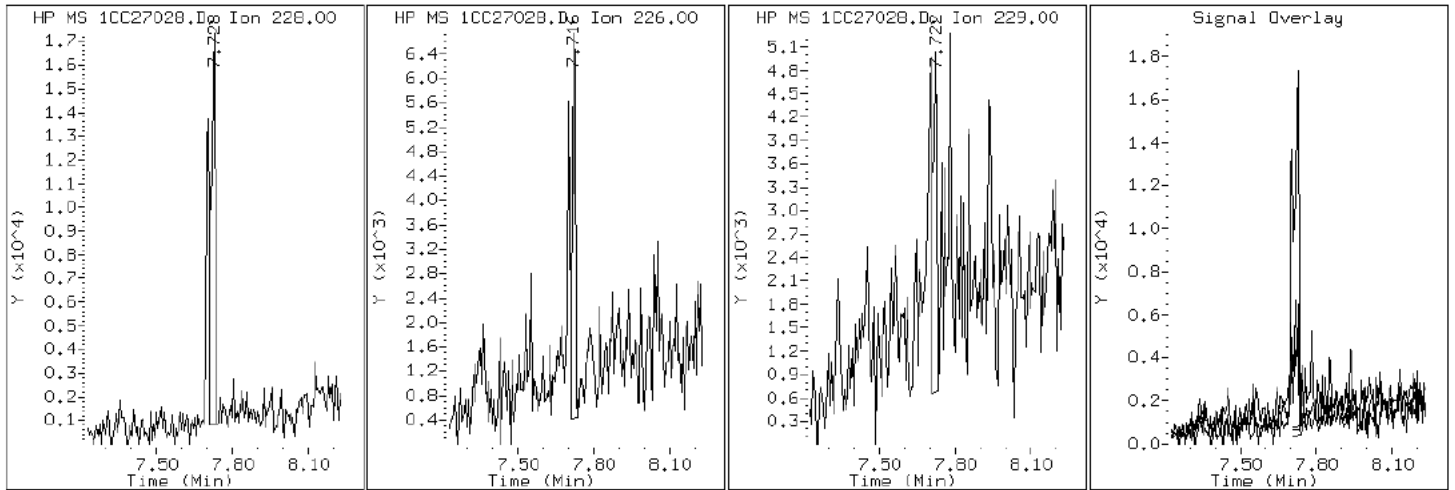
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

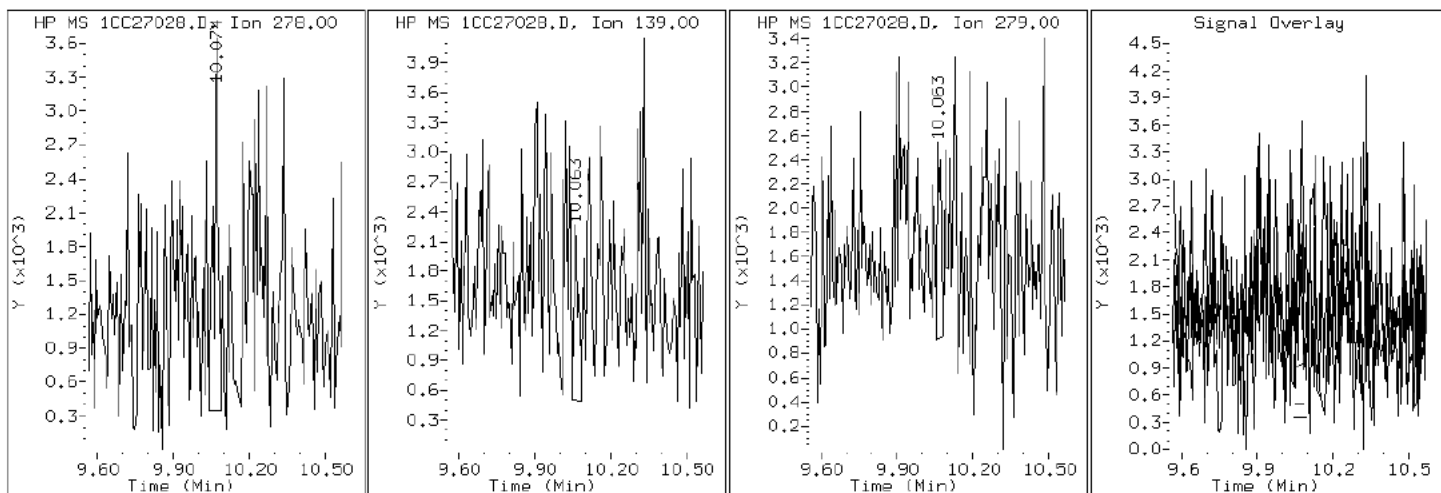
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

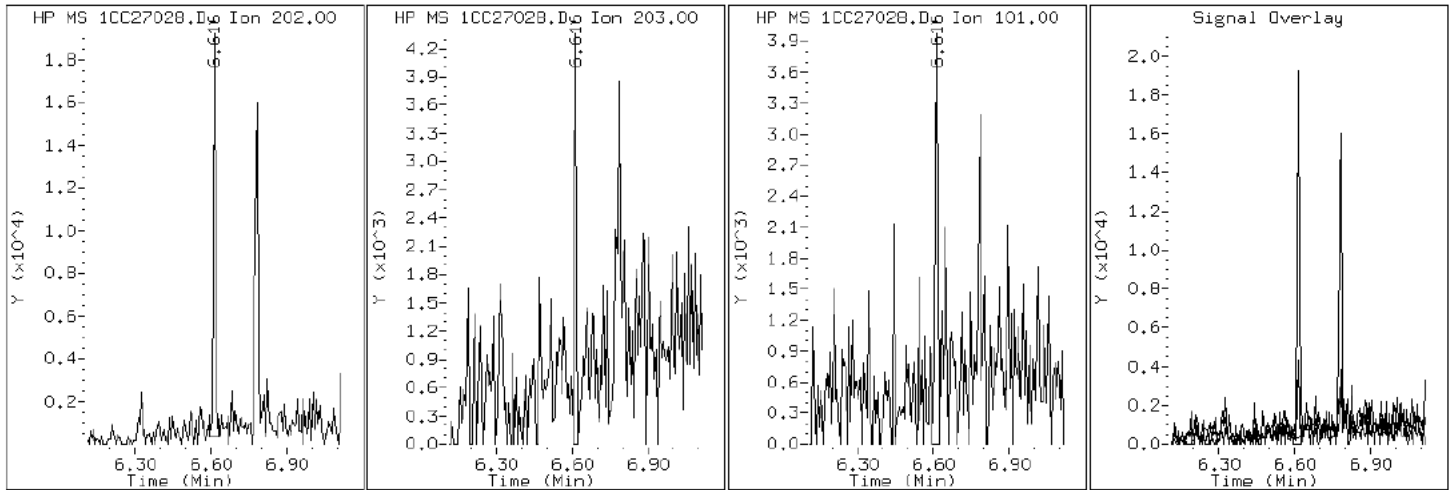
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

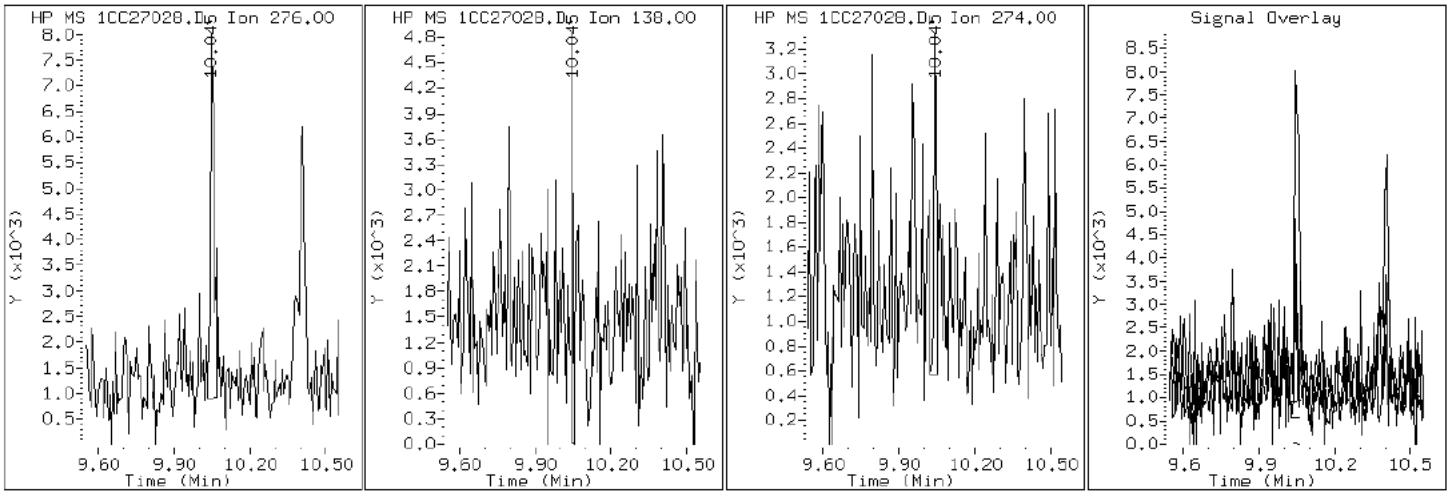
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

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





Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

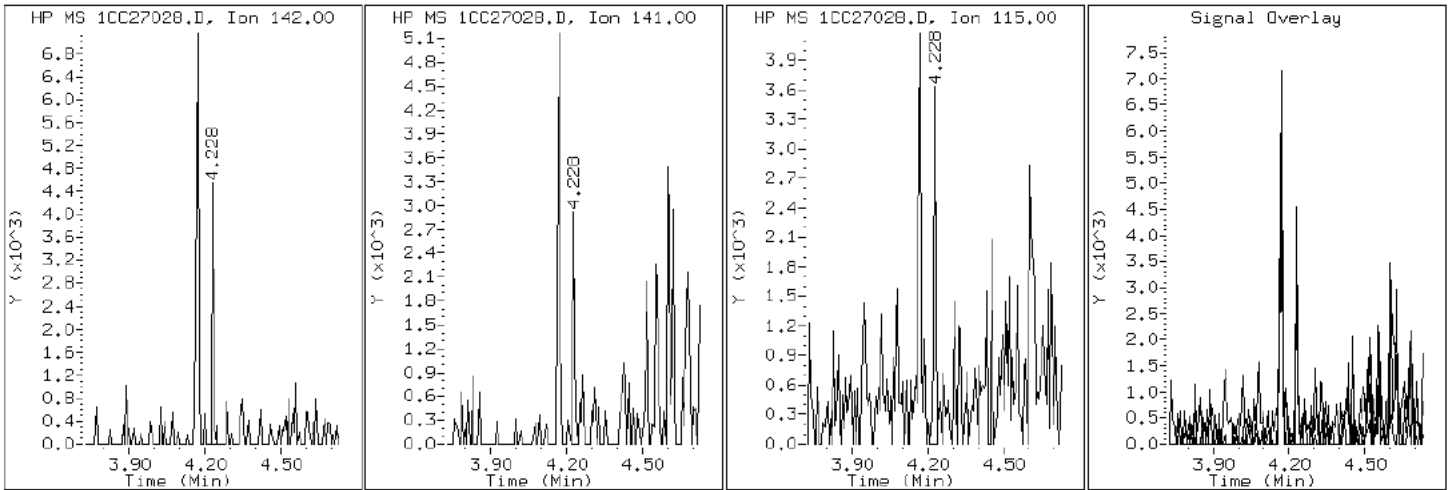
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

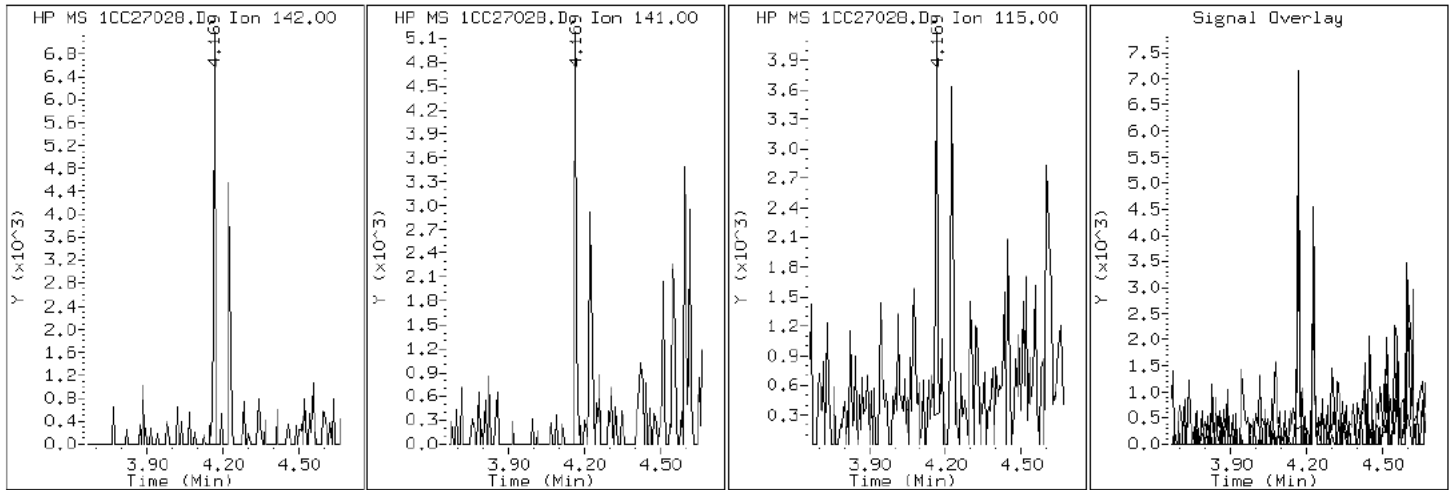
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

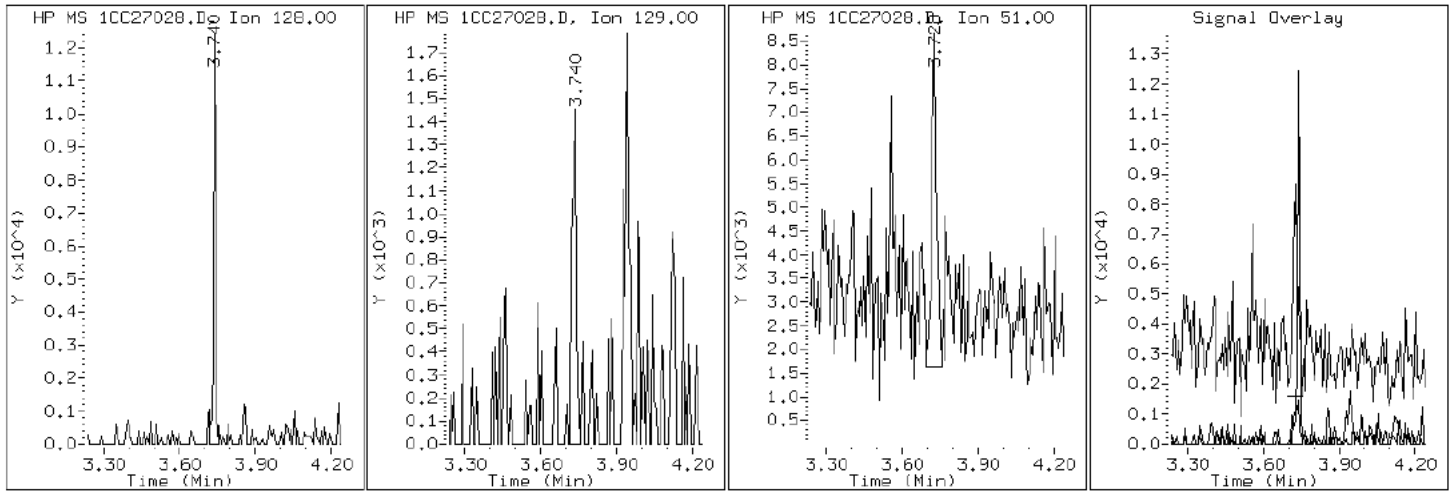
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

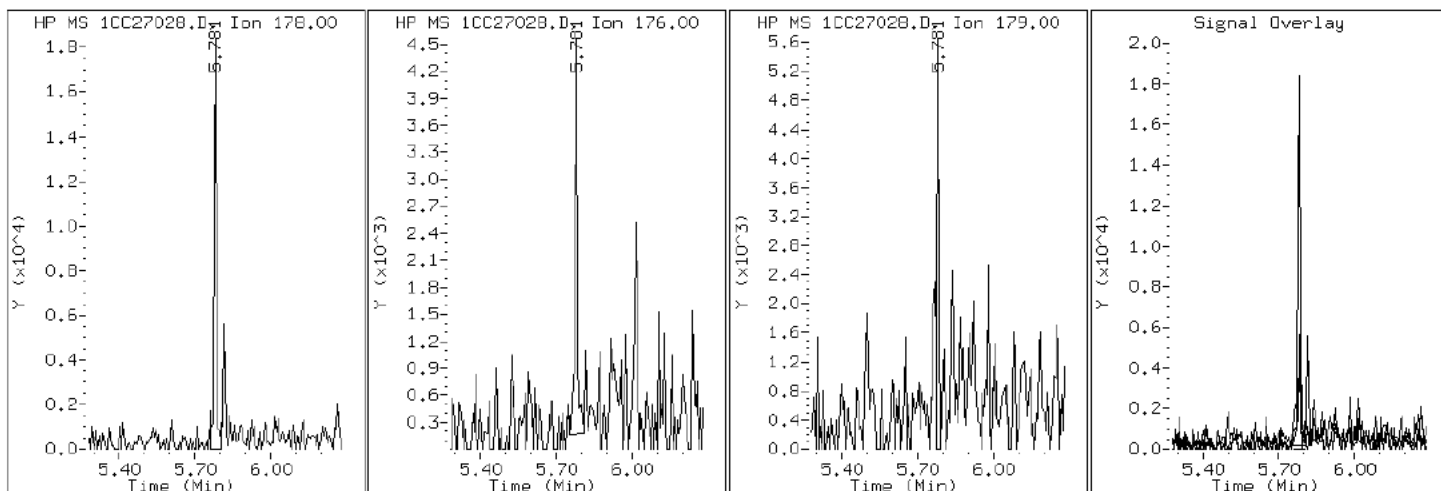
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27028.D

Date: 27-MAR-2013 18:26

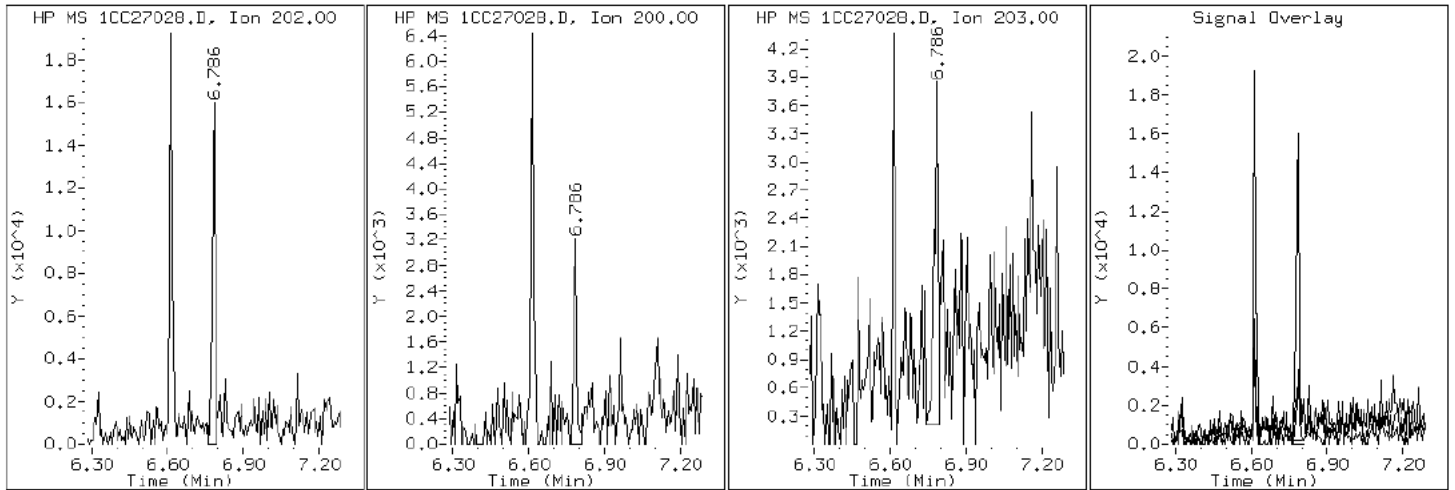
Client ID: CV0697B-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-2-a

Operator: SCC

16 Pyrene

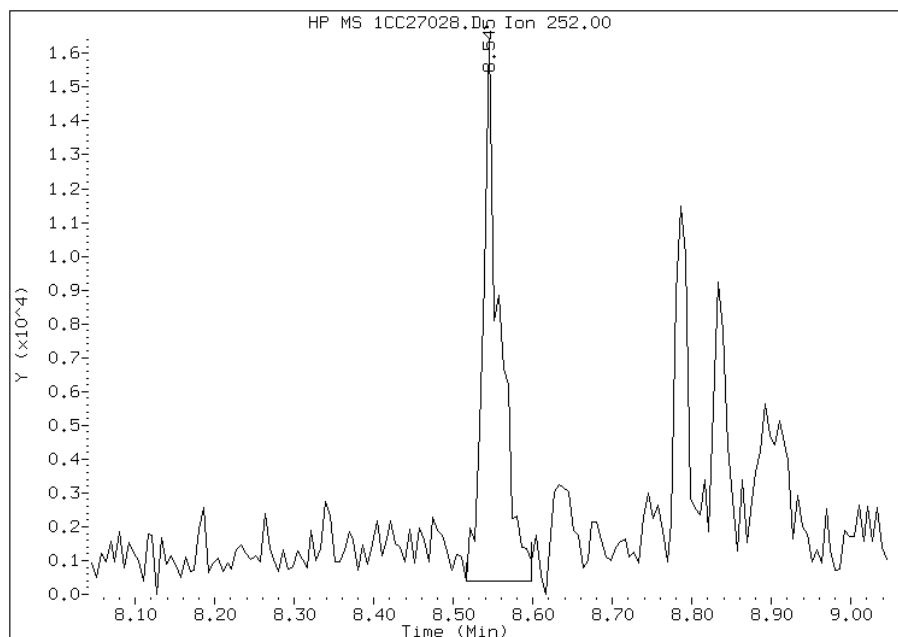


# Manual Integration Report

Data File: 1CC27028.D  
Inj. Date and Time: 27-MAR-2013 18:26  
Instrument ID: BSMC5973.i  
Client ID: CV0697B-CS  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/01/2013

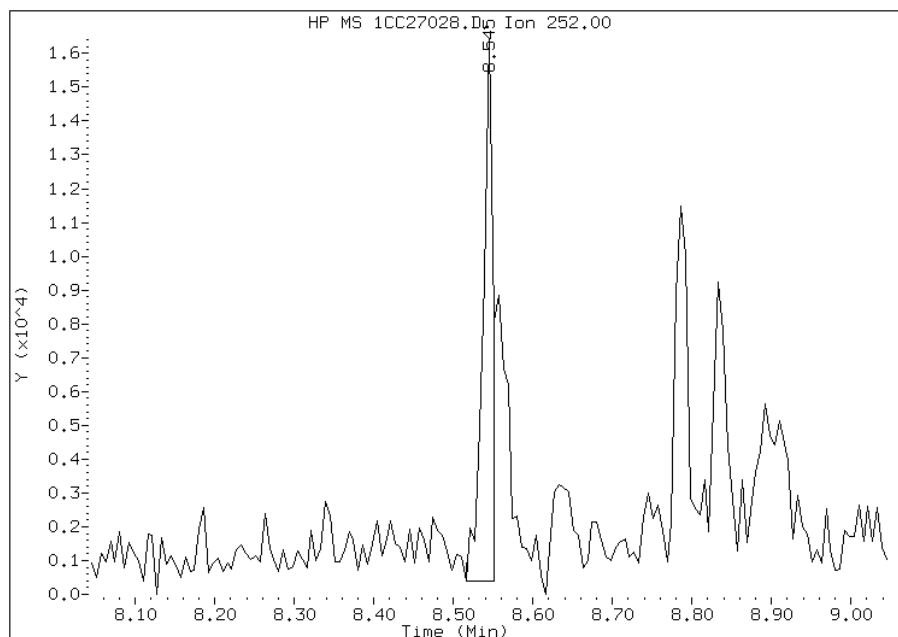
## Processing Integration Results

RT: 8.55  
Response: 23540  
Amount: 1  
Conc: 263



## Manual Integration Results

RT: 8.55  
Response: 14088  
Amount: 0  
Conc: 158



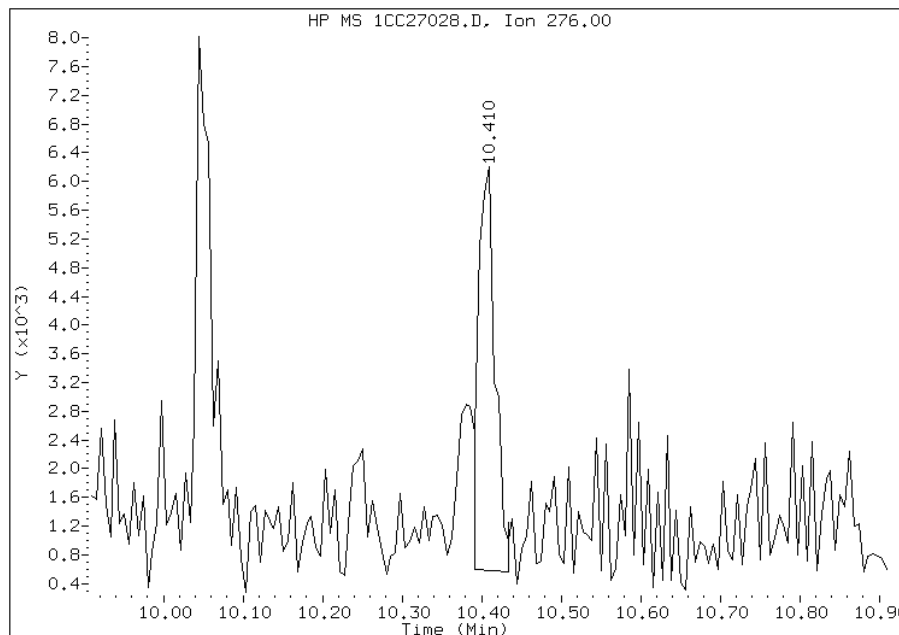
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:33  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC27028.D  
Inj. Date and Time: 27-MAR-2013 18:26  
Instrument ID: BSMC5973.i  
Client ID: CV0697B-CS  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/01/2013

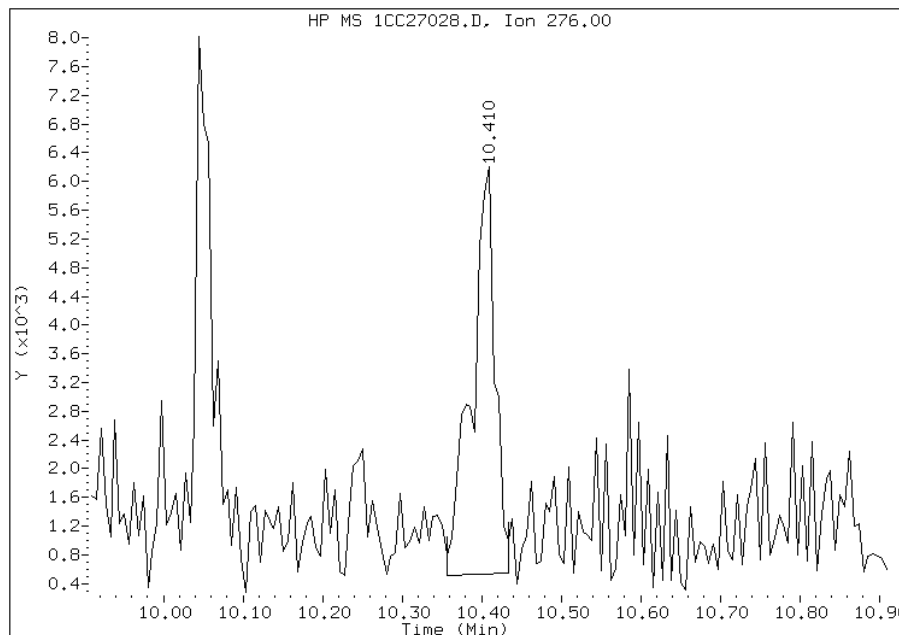
## Processing Integration Results

RT: 10.41  
Response: 8258  
Amount: 0  
Conc: 97



## Manual Integration Results

RT: 10.41  
Response: 11569  
Amount: 0  
Conc: 135



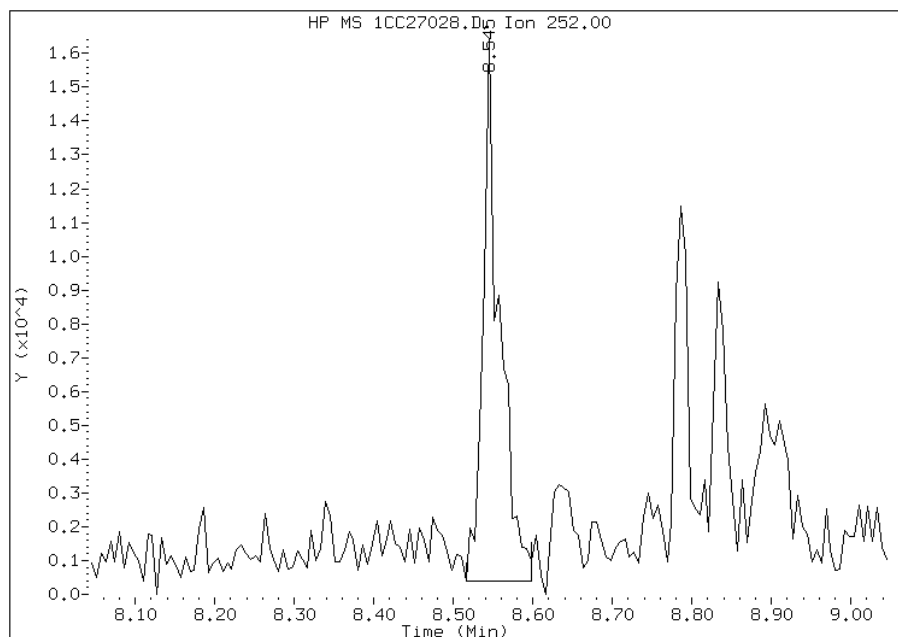
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:35  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27028.D  
Inj. Date and Time: 27-MAR-2013 18:26  
Instrument ID: BSMC5973.i  
Client ID: CV0697B-CS  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/01/2013

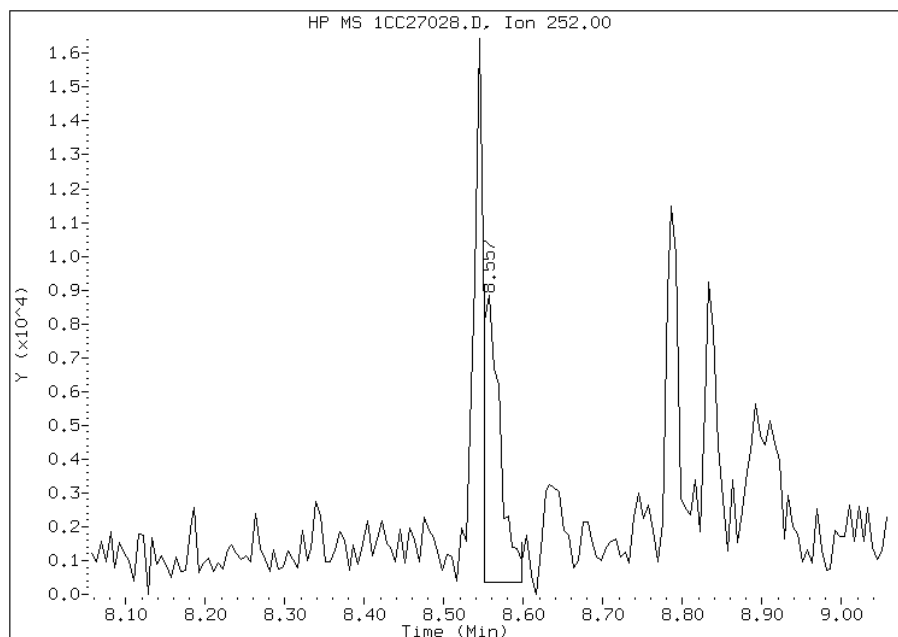
## Processing Integration Results

RT: 8.55  
Response: 23540  
Amount: 1  
Conc: 257



## Manual Integration Results

RT: 8.56  
Response: 12359  
Amount: 0  
Conc: 135



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:34  
Manual Integration Reason: Baseline Event

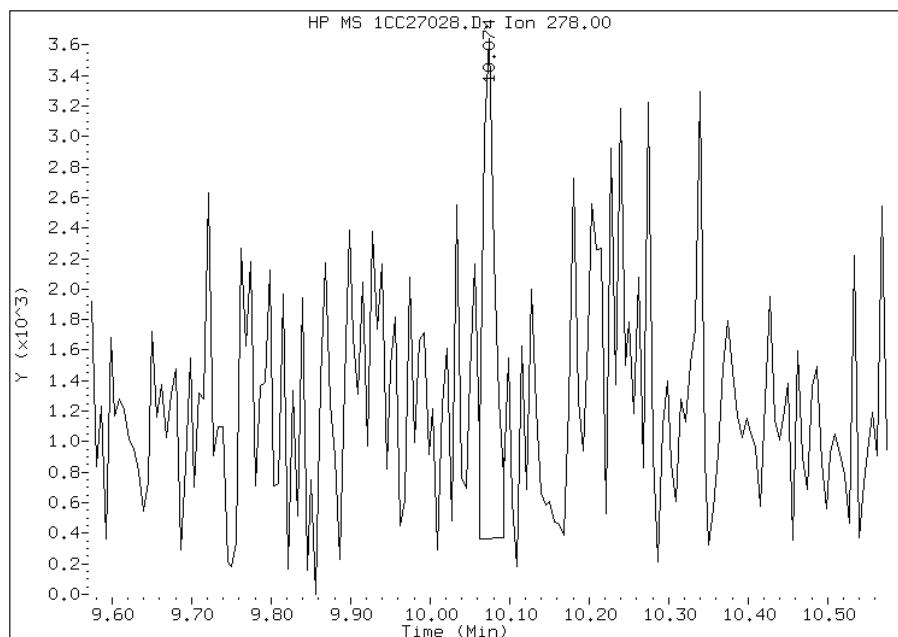


# Manual Integration Report

Data File: 1CC27028.D  
Inj. Date and Time: 27-MAR-2013 18:26  
Instrument ID: BSMC5973.i  
Client ID: CV0697B-CS  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/01/2013

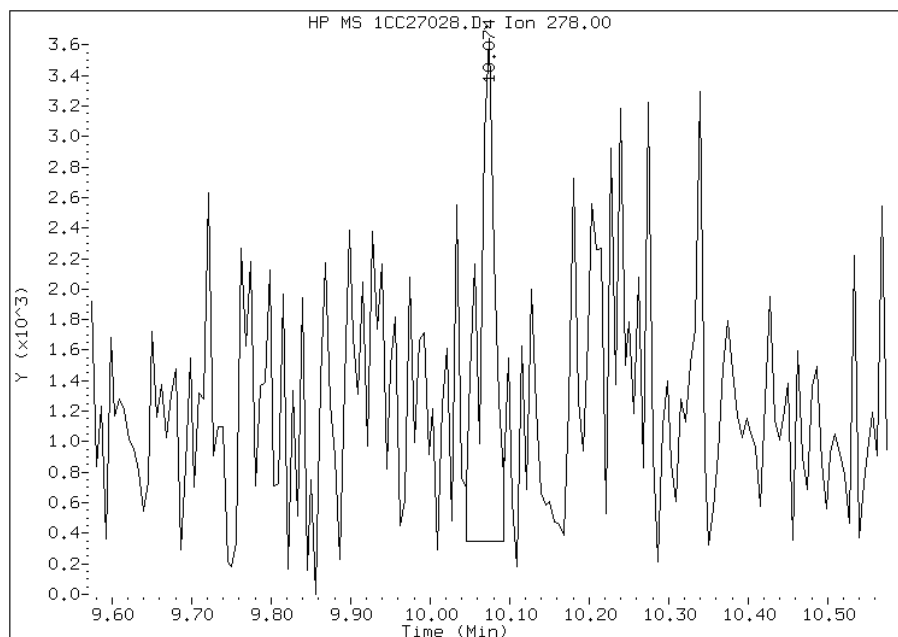
## Processing Integration Results

RT: 10.07  
Response: 3421  
Amount: 0  
Conc: 43



## Manual Integration Results

RT: 10.07  
Response: 4601  
Amount: 0  
Conc: 58



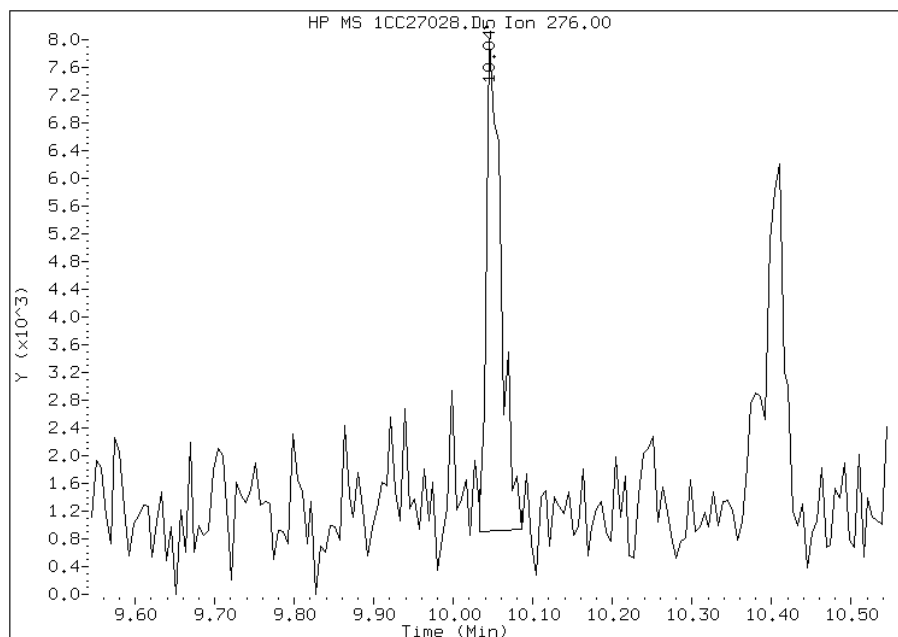
Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:34  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC27028.D  
Inj. Date and Time: 27-MAR-2013 18:26  
Instrument ID: BSMC5973.i  
Client ID: CV0697B-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

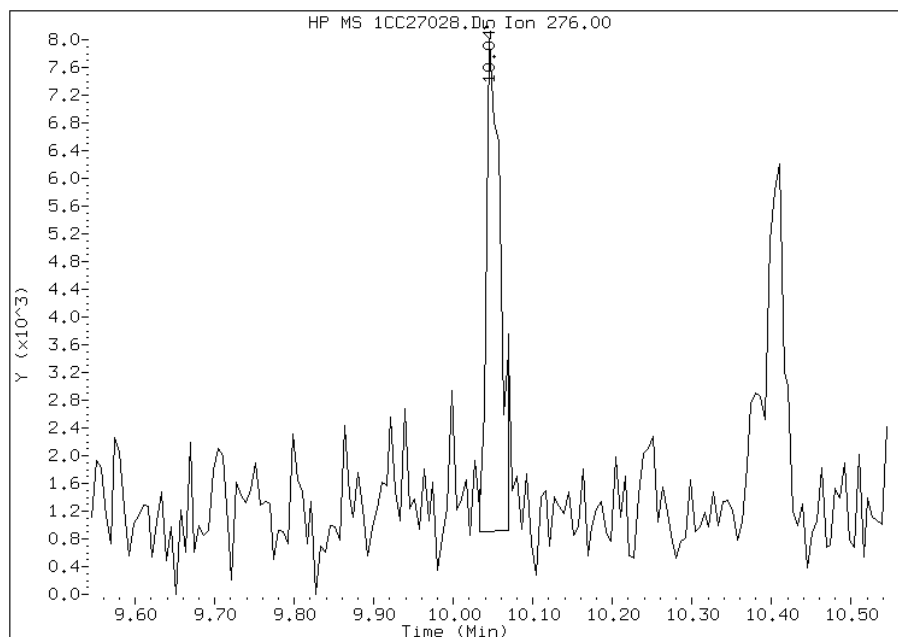
## Processing Integration Results

RT: 10.05  
Response: 9287  
Amount: 0  
Conc: 114



## Manual Integration Results

RT: 10.05  
Response: 8818  
Amount: 0  
Conc: 108



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:35  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0341A-CS Lab Sample ID: 680-88632-3  
 Matrix: Solid Lab File ID: 1CC27029.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:30  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.14(g) Date Analyzed: 03/27/2013 18:44  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	26	J	41	21
56-55-3	Benzo[a]anthracene	190		39	19
50-32-8	Benzo[a]pyrene	200		51	25
205-99-2	Benzo[b]fluoranthene	290		60	30
191-24-2	Benzo[g,h,i]perylene	240		98	22
207-08-9	Benzo[k]fluoranthene	93		39	18
218-01-9	Chrysene	310		44	22
53-70-3	Dibenz(a,h)anthracene	66	J	98	20
206-44-0	Fluoranthene	290		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	130		98	35
90-12-0	1-Methylnaphthalene	98	J	200	22
91-57-6	2-Methylnaphthalene	96	J	200	35
91-20-3	Naphthalene	86	J	200	22
85-01-8	Phenanthrene	180		39	19
129-00-0	Pyrene	300		98	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27029.D  
 Lab Smp Id: 680-88632-A-3-A Client Smp ID: FM0341A-CS  
 Inj Date : 27-MAR-2013 18:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-3-a  
 Misc Info : 680-88632-A-3-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 29  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	19.167	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	799896	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	621862	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1111089	40.0000		
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	30570	1.82229	595.6104	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1181597	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1135083	40.0000		
2 Naphthalene	128		3.745	3.739	(1.005)	5486	0.26344	86.1050(Q)	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	4089	0.29437	96.2134	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	3808	0.30100	98.3809	
11 Phenanthrene	178		5.780	5.780	(1.003)	17821	0.55469	181.2987	
12 Anthracene	178		5.810	5.815	(1.008)	2547	0.08106	26.4944	
15 Fluoranthene	202		6.616	6.615	(1.148)	31190	0.88649	289.7451	
16 Pyrene	202		6.786	6.786	(0.881)	29324	0.92348	301.8368	
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	19621	0.57534	188.0485	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.721	7.727	(1.002)	32335	0.94744	309.6675
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	26700	0.90008	294.1887
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	8660	0.28458	93.0145(Q)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	17577	0.61003	199.3856
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	10454	0.38568	126.0586(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	5343	0.20153	65.8679(Q)
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.171)	20415	0.71999	235.3276

QC Flag Legend

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

Data File: 1CC27029.D

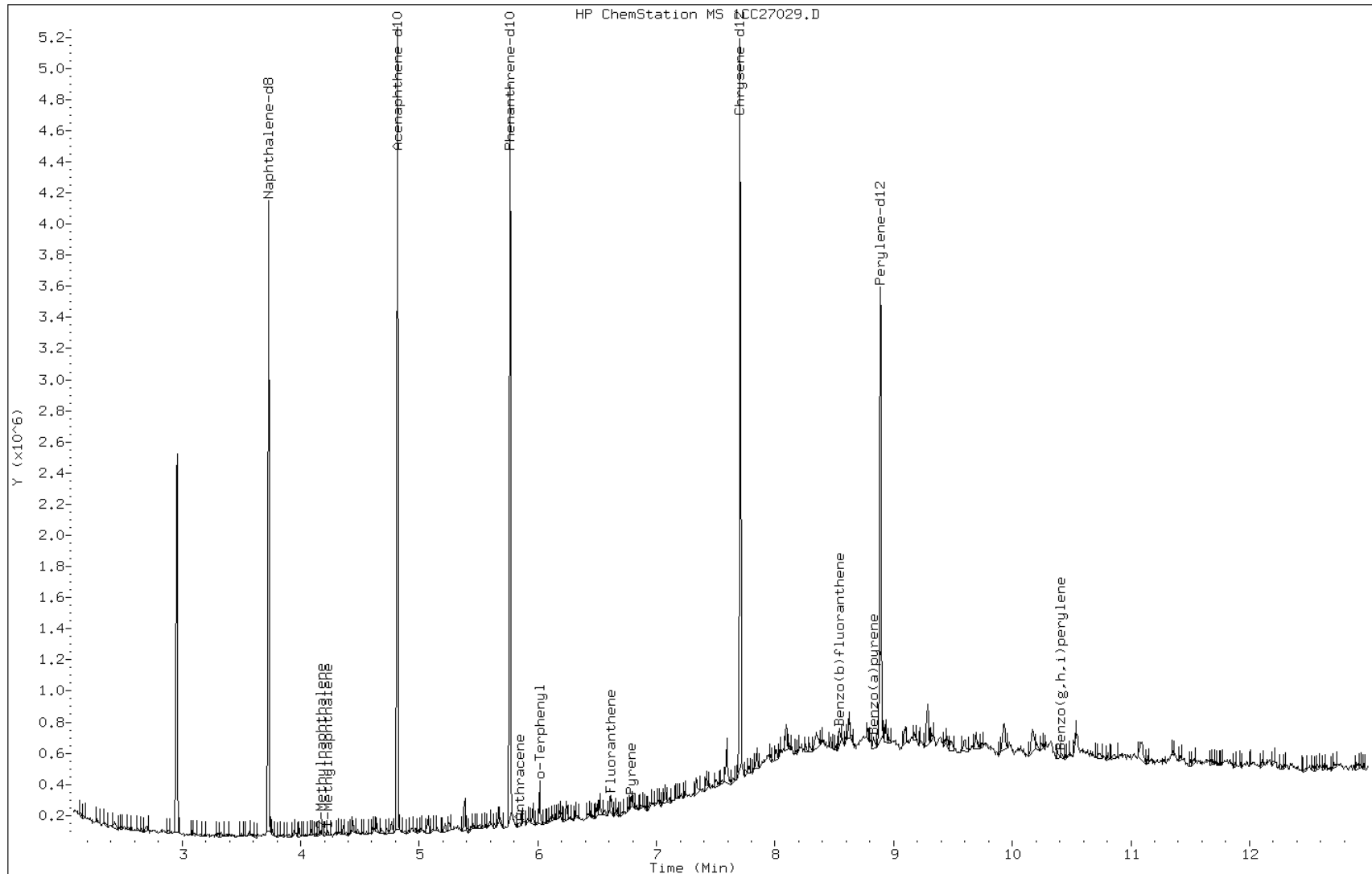
Date: 27-MAR-2013 18:44

Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

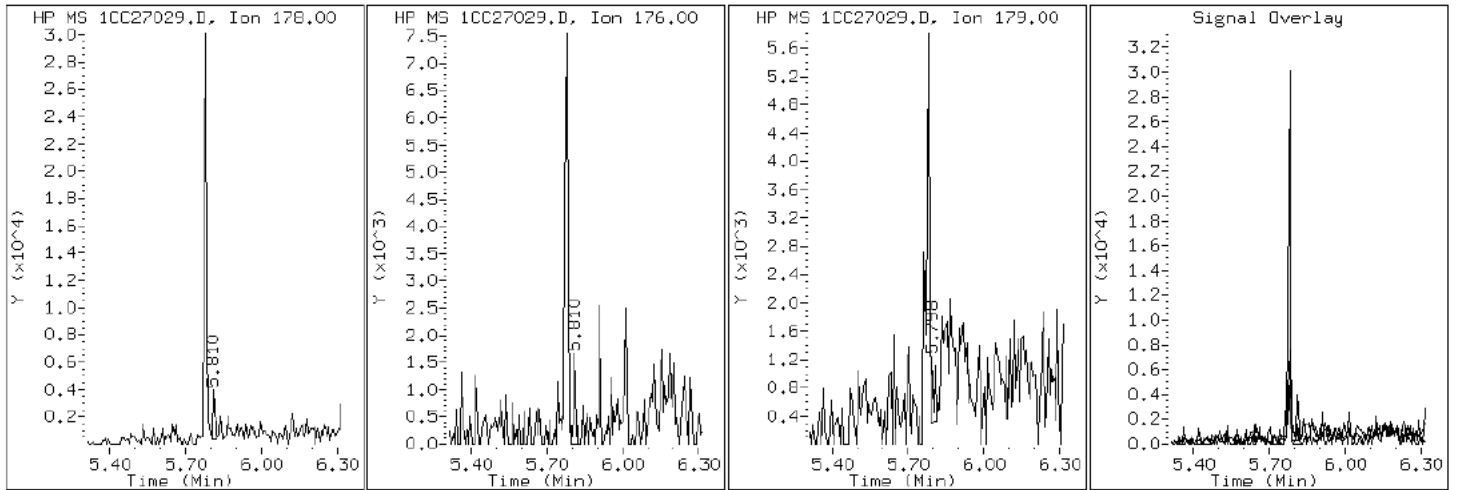
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

12 Anthracene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

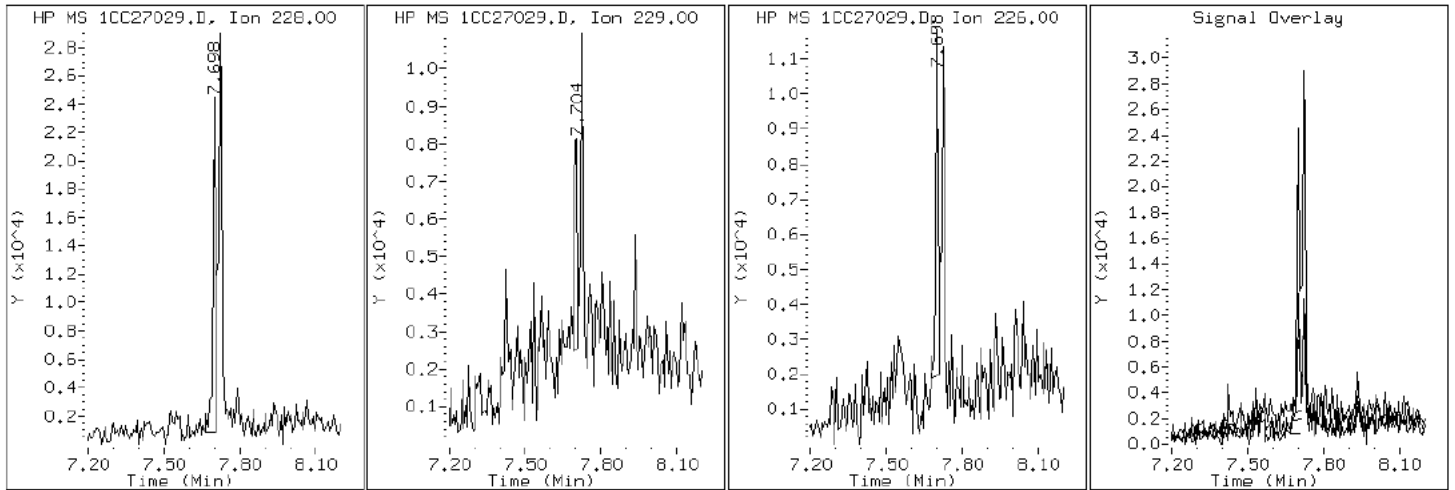
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

17 Benzo(a)anthracene





Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

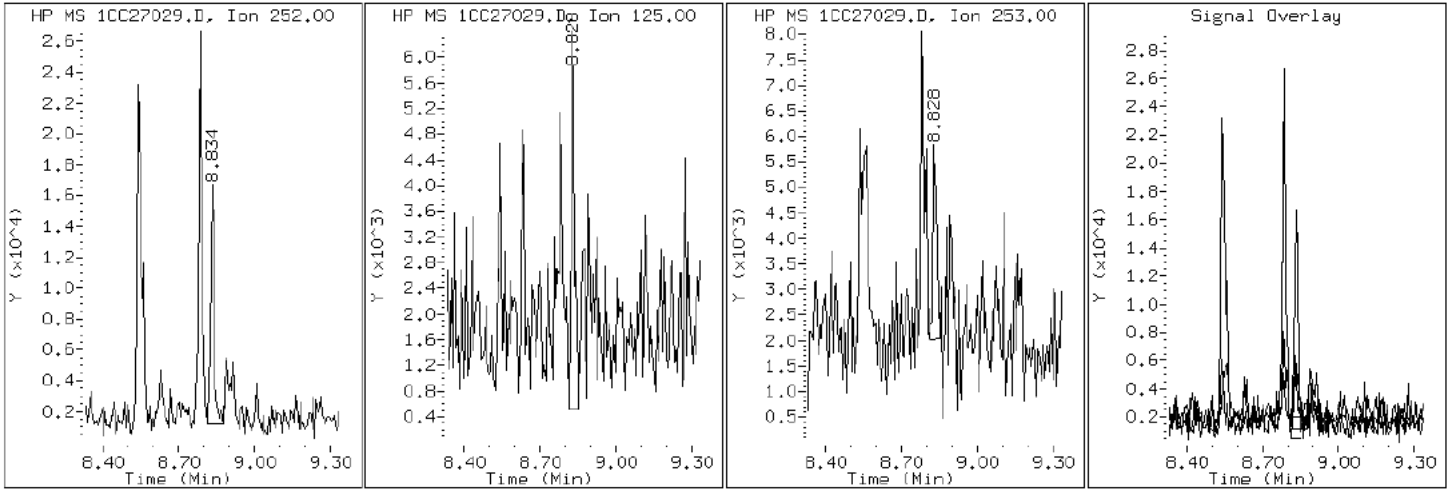
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

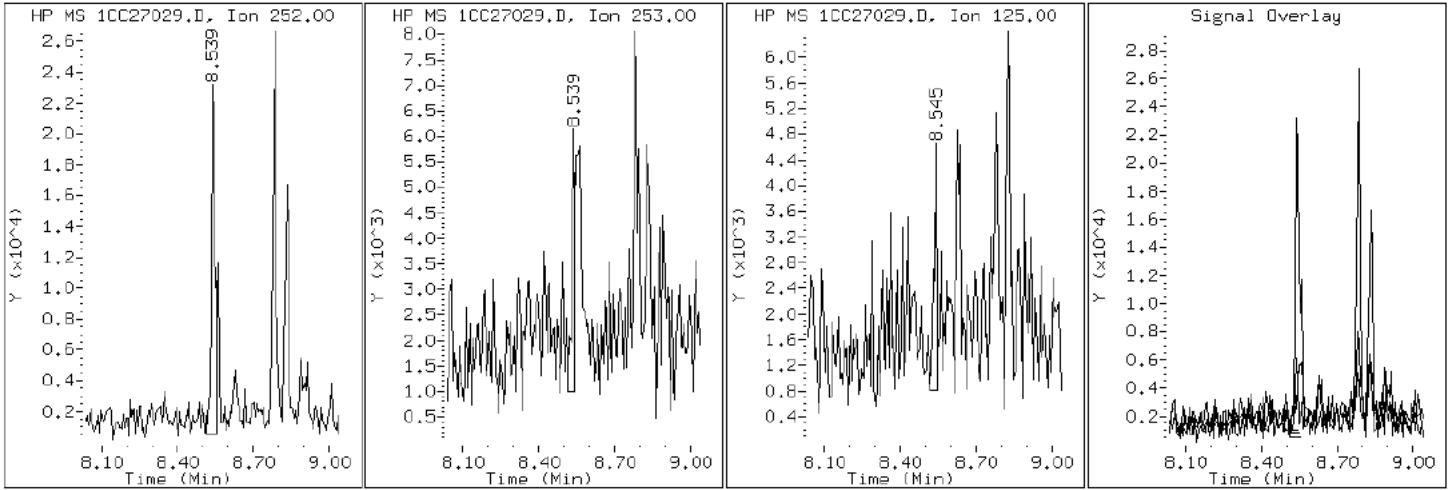
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

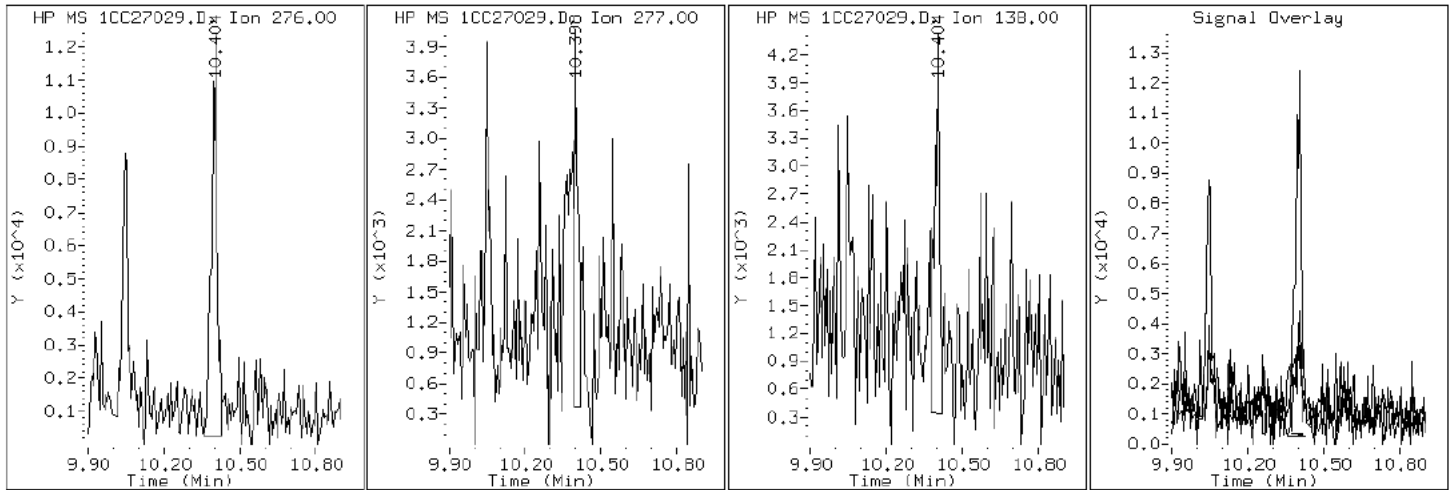
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

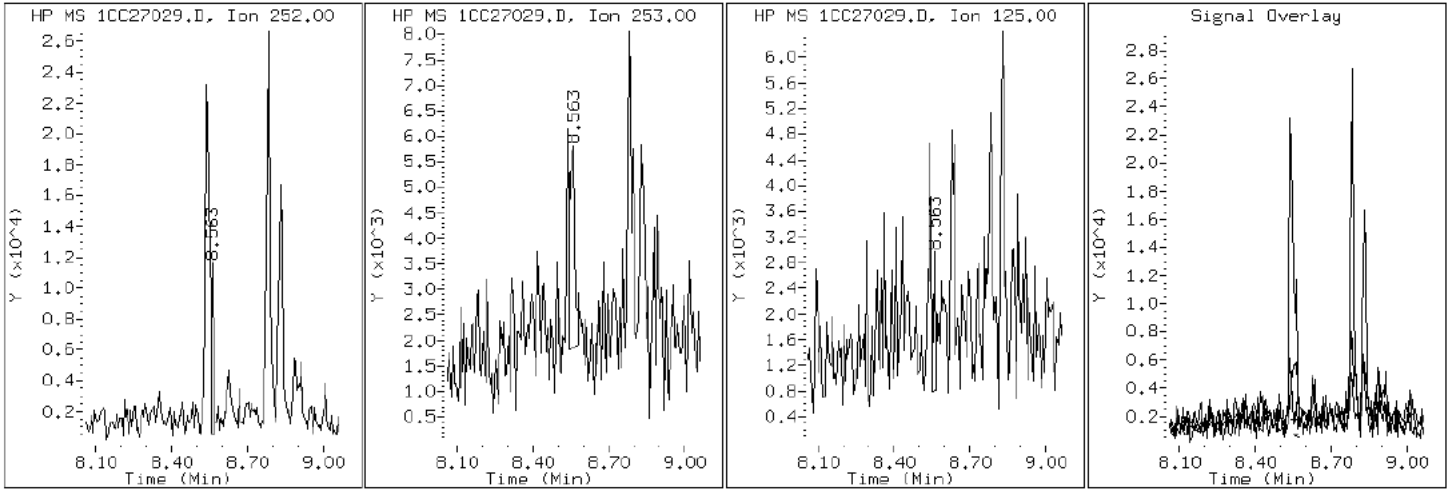
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

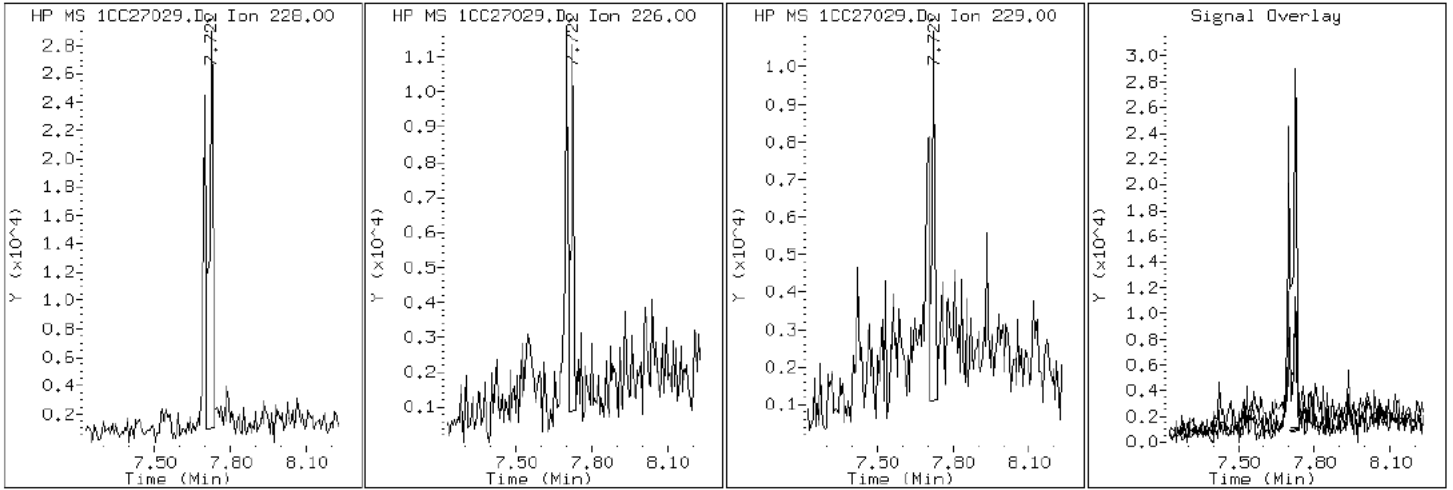
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

19 Chrysene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

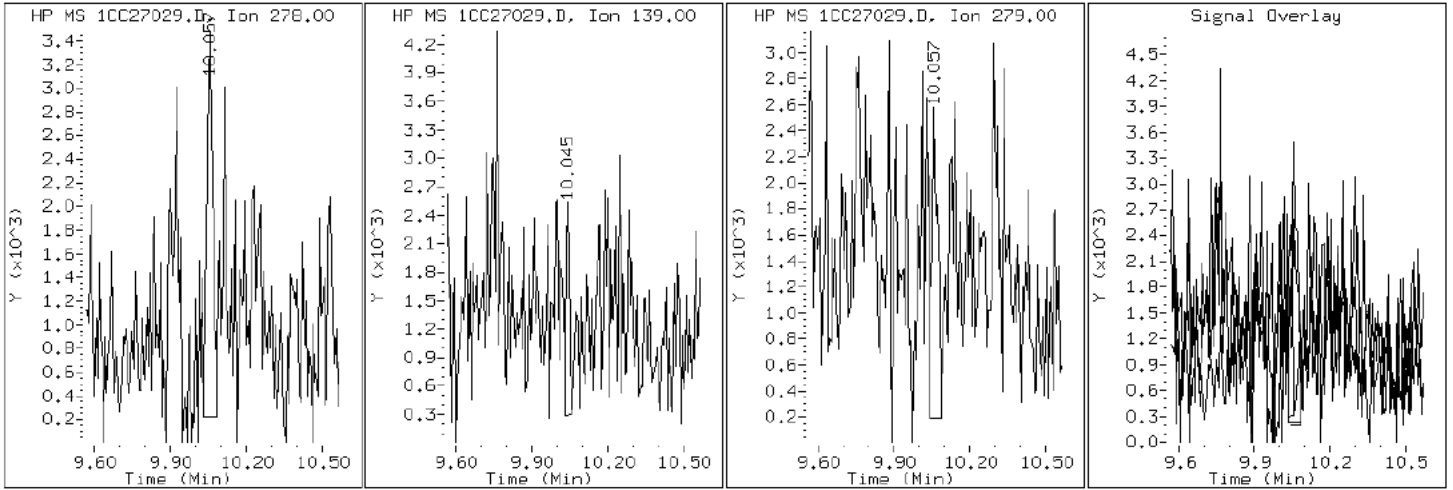
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

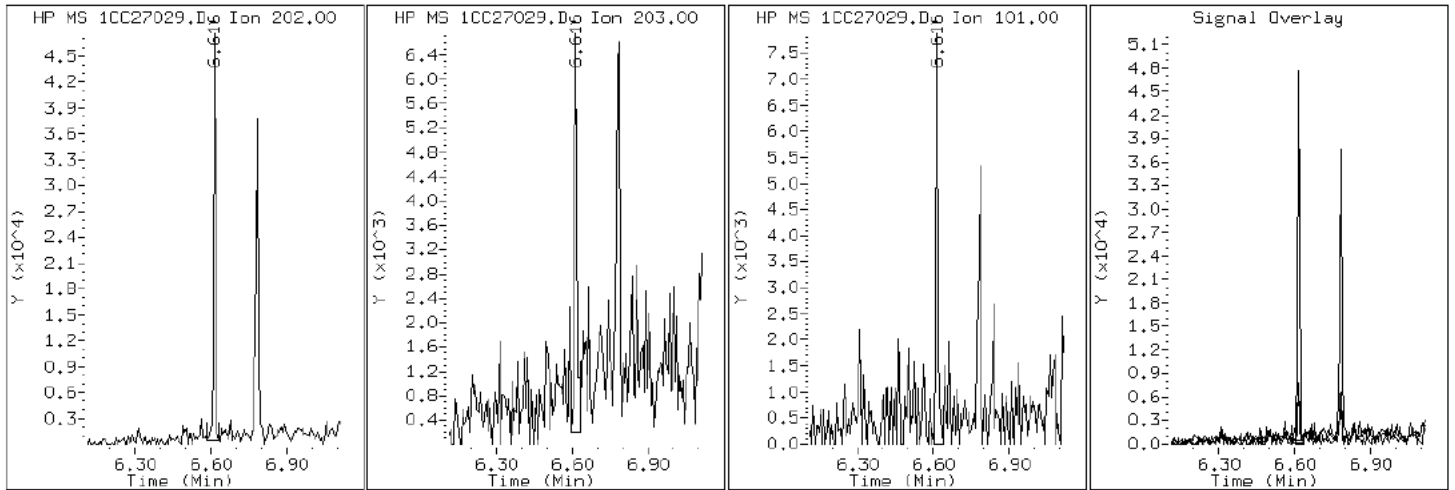
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

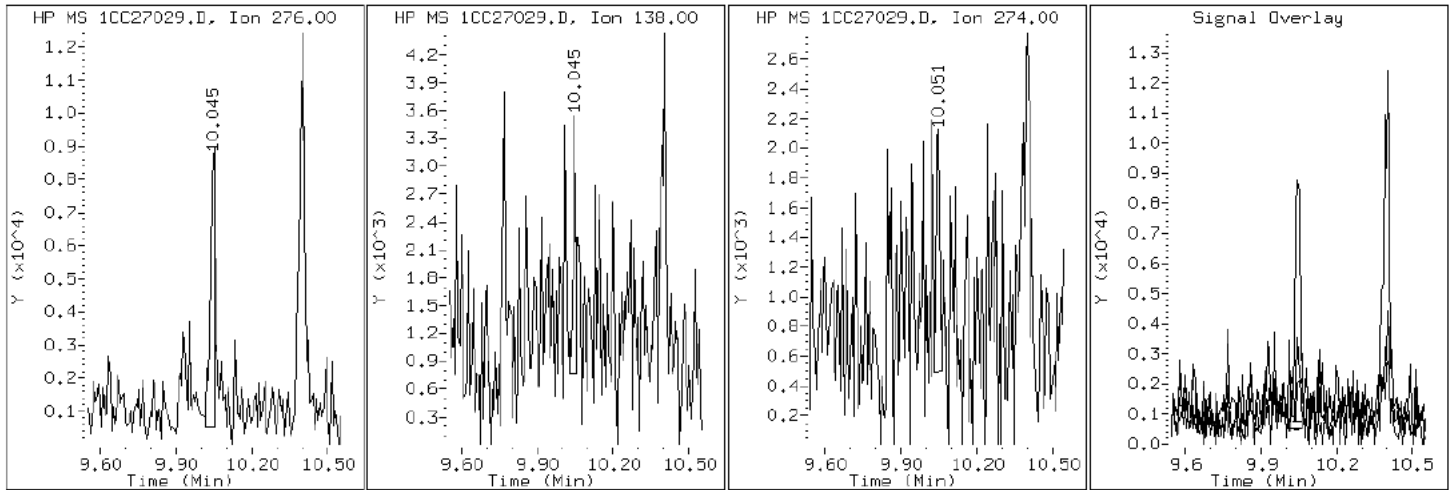
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

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





Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

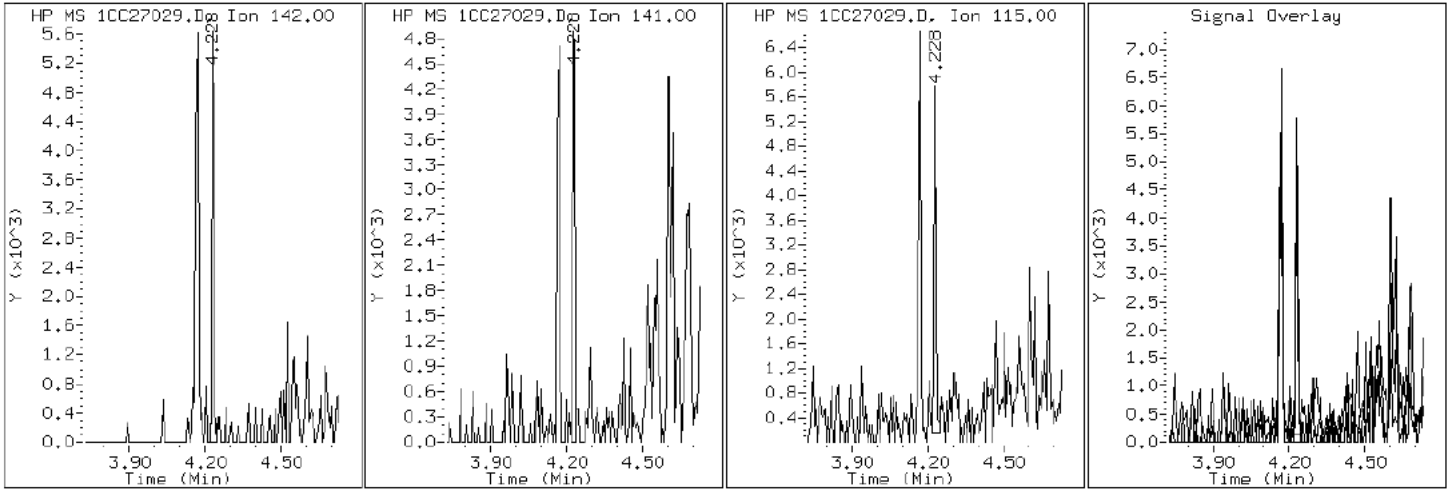
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

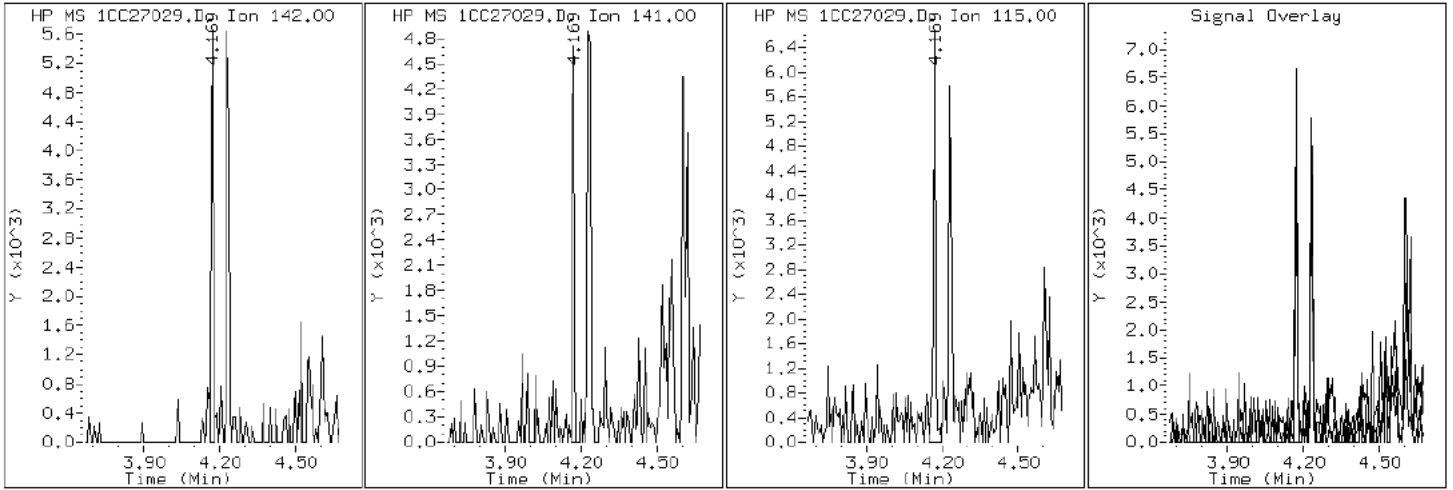
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

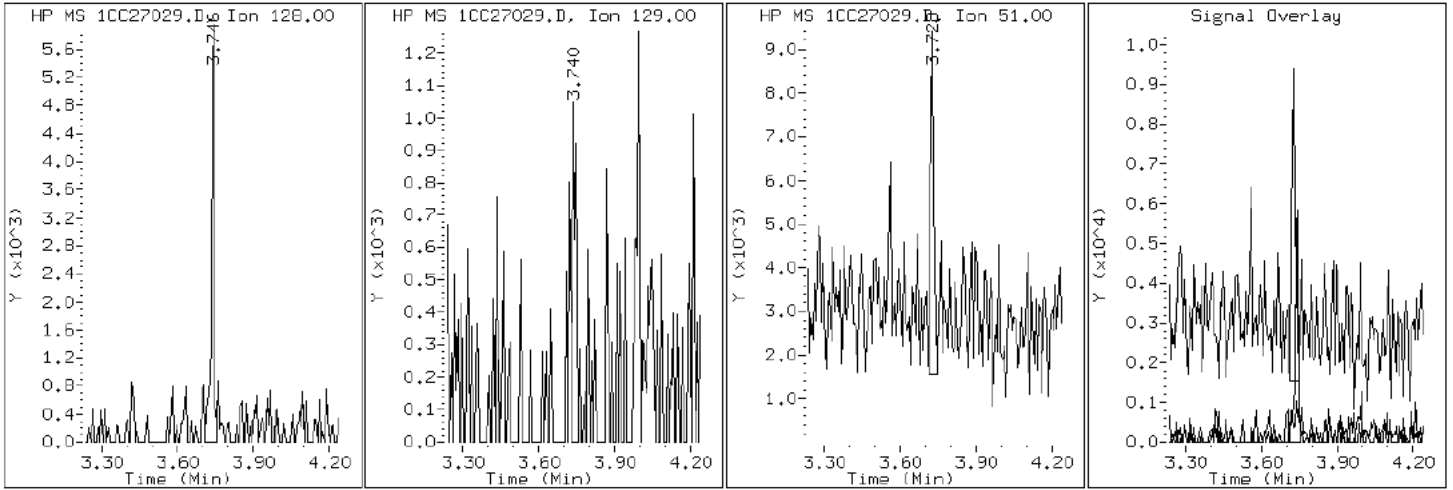
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

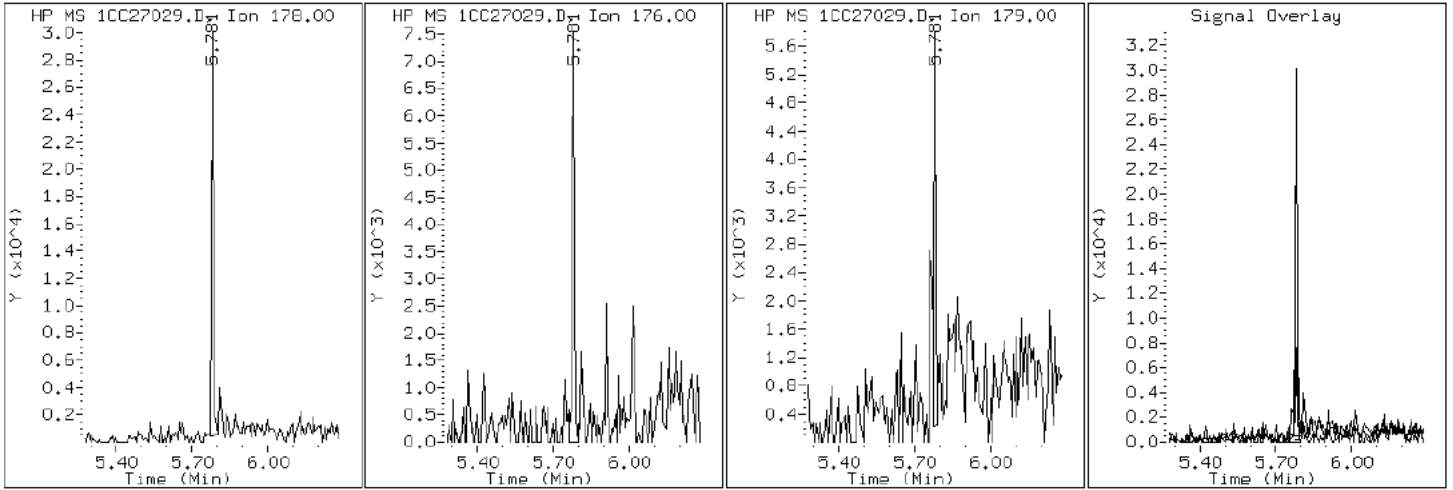
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27029.D

Date: 27-MAR-2013 18:44

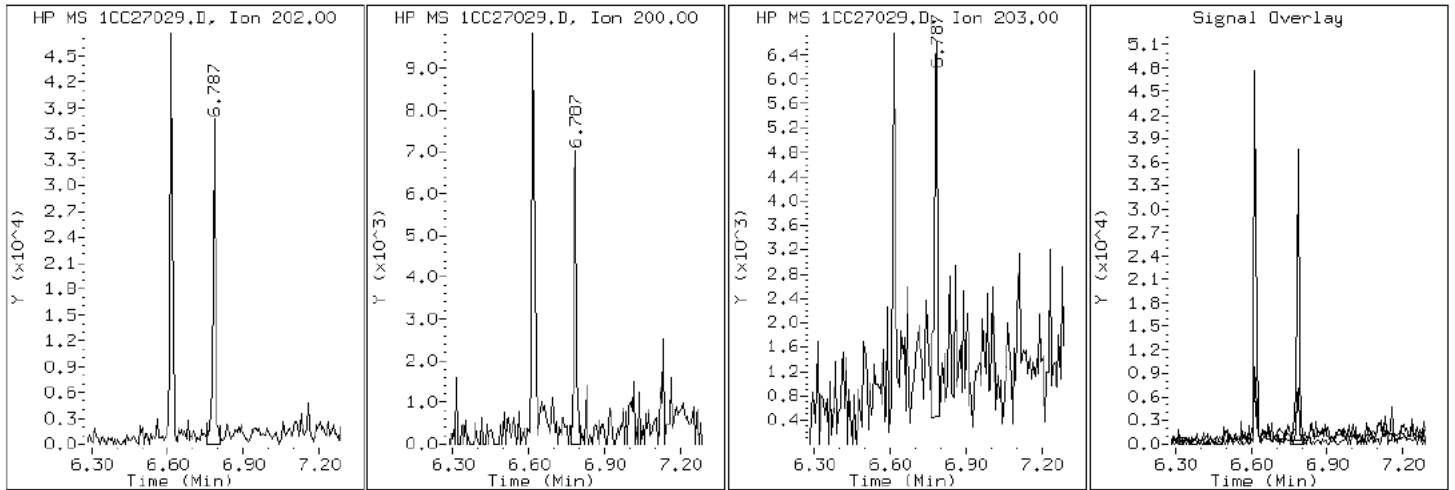
Client ID: FM0341A-CS

Instrument: BSMC5973.i

Sample Info: 680-88632-a-3-a

Operator: SCC

16 Pyrene

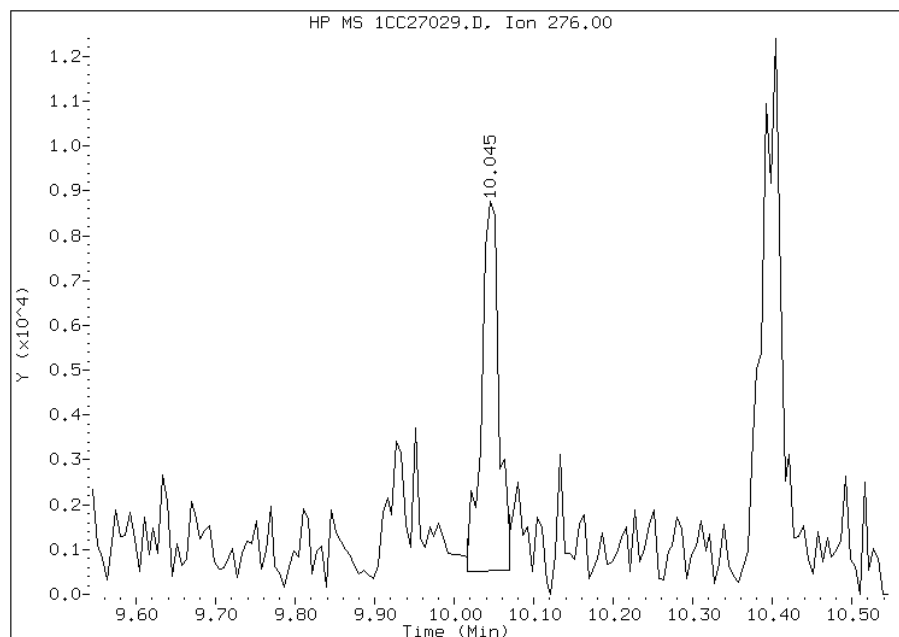


# Manual Integration Report

Data File: 1CC27029.D  
Inj. Date and Time: 27-MAR-2013 18:44  
Instrument ID: BSMC5973.i  
Client ID: FM0341A-CS  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

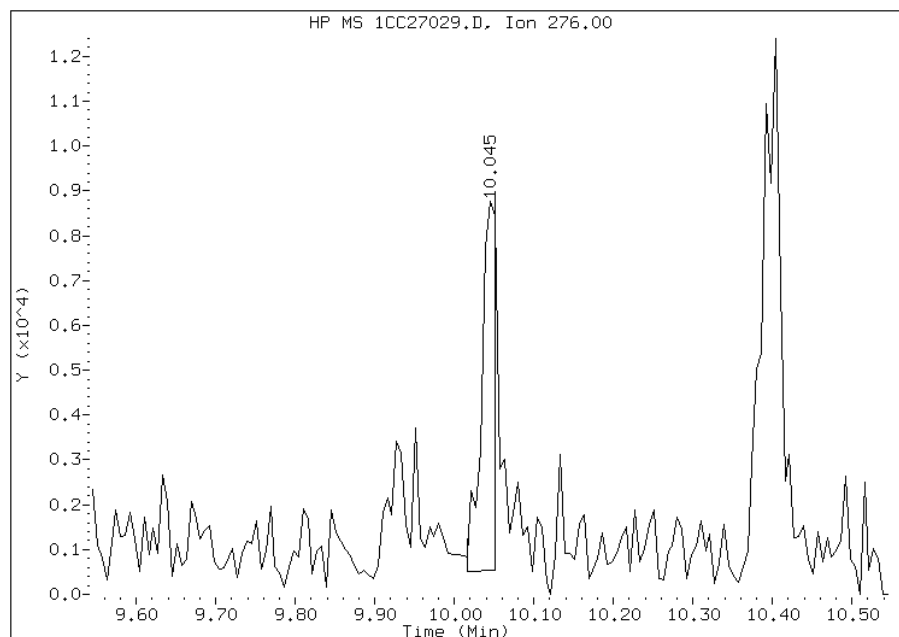
## Processing Integration Results

RT: 10.05  
Response: 12422  
Amount: 0  
Conc: 150



## Manual Integration Results

RT: 10.05  
Response: 10454  
Amount: 0  
Conc: 126



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:36  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0341B-CS Lab Sample ID: 680-88632-4  
 Matrix: Solid Lab File ID: 1DC28016.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:45  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.88(g) Date Analyzed: 03/28/2013 17:35  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 19.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	34	J	42	21
56-55-3	Benzo[a]anthracene	150		40	19
50-32-8	Benzo[a]pyrene	120		52	26
205-99-2	Benzo[b]fluoranthene	230		61	30
191-24-2	Benzo[g,h,i]perylene	110		100	22
207-08-9	Benzo[k]fluoranthene	61		40	18
218-01-9	Chrysene	190		45	22
53-70-3	Dibenz(a,h)anthracene	35	J	100	20
206-44-0	Fluoranthene	230		100	20
86-73-7	Fluorene	100	U	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	82	J	100	35
90-12-0	1-Methylnaphthalene	73	J	200	22
91-57-6	2-Methylnaphthalene	79	J	200	35
91-20-3	Naphthalene	63	J	200	22
85-01-8	Phenanthrene	180		40	19
129-00-0	Pyrene	180		100	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28016.D  
 Lab Smp Id: 680-88632-A-4-A Client Smp ID: FM0341B-CS  
 Inj Date : 28-MAR-2013 17:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-4-A  
 Misc Info : 680-88632-A-4-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 16  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.880	Weight Extracted
M	19.331	% 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	6.102	6.102	(1.000)	3582780	40.0000	
* 6 Acenaphthene-d10	164	7.783	7.777	(1.000)	2374347	40.0000	
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3915080	40.0000	
\$ 13 o-Terphenyl	230	9.346	9.351	(1.034)	90709	1.49826	500
* 17 Chrysene-d12	240	11.367	11.373	(1.000)	4022037	40.0000	
* 22 Perylene-d12	264	13.229	13.223	(1.000)	4185217	40.0000	
2 Naphthalene	128	6.120	6.126	(1.003)	18090	0.18875	63
3 2-Methylnaphthalene	142	6.825	6.825	(1.118)	14390	0.23570	78
4 1-Methylnaphthalene	142	6.919	6.919	(1.134)	12519	0.21897	73
5 Acenaphthylene	152	7.648	7.653	(0.983)	6117	0.05844	19
10 Phenanthrene	178	9.058	9.064	(1.002)	60466	0.54407	180
11 Anthracene	178	9.093	9.099	(1.006)	11229	0.10099	34
12 Carbazole	167	9.234	9.240	(1.021)	6751	0.06792	23
14 Fluoranthene	202	10.039	10.045	(1.110)	81392	0.70178	230



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.227	10.233	(0.900)	68885	0.55214	180
16 Benzo(a)anthracene	228	11.349	11.349	(0.998)	50989	0.46305	150
18 Chrysene	228	11.384	11.396	(1.002)	65737	0.57825	190
19 Benzo(b)fluoranthene	252	12.659	12.671	(0.957)	72807	0.67585	220(H)
20 Benzo(k)fluoranthene	252	12.689	12.712	(0.959)	20764	0.18409	61(H)
21 Benzo(a)pyrene	252	13.112	13.124	(0.991)	37482	0.35160	120
23 Indeno(1,2,3-cd)pyrene	276	14.804	14.827	(1.119)	28119	0.24716	82(M)
24 Dibenzo(a,h)anthracene	278	14.822	14.863	(1.120)	11101	0.10566	35(H)
25 Benzo(g,h,i)perylene	276	15.250	15.280	(1.153)	36628	0.33768	110(H)

QC Flag Legend

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

Data File: 1DC28016.D

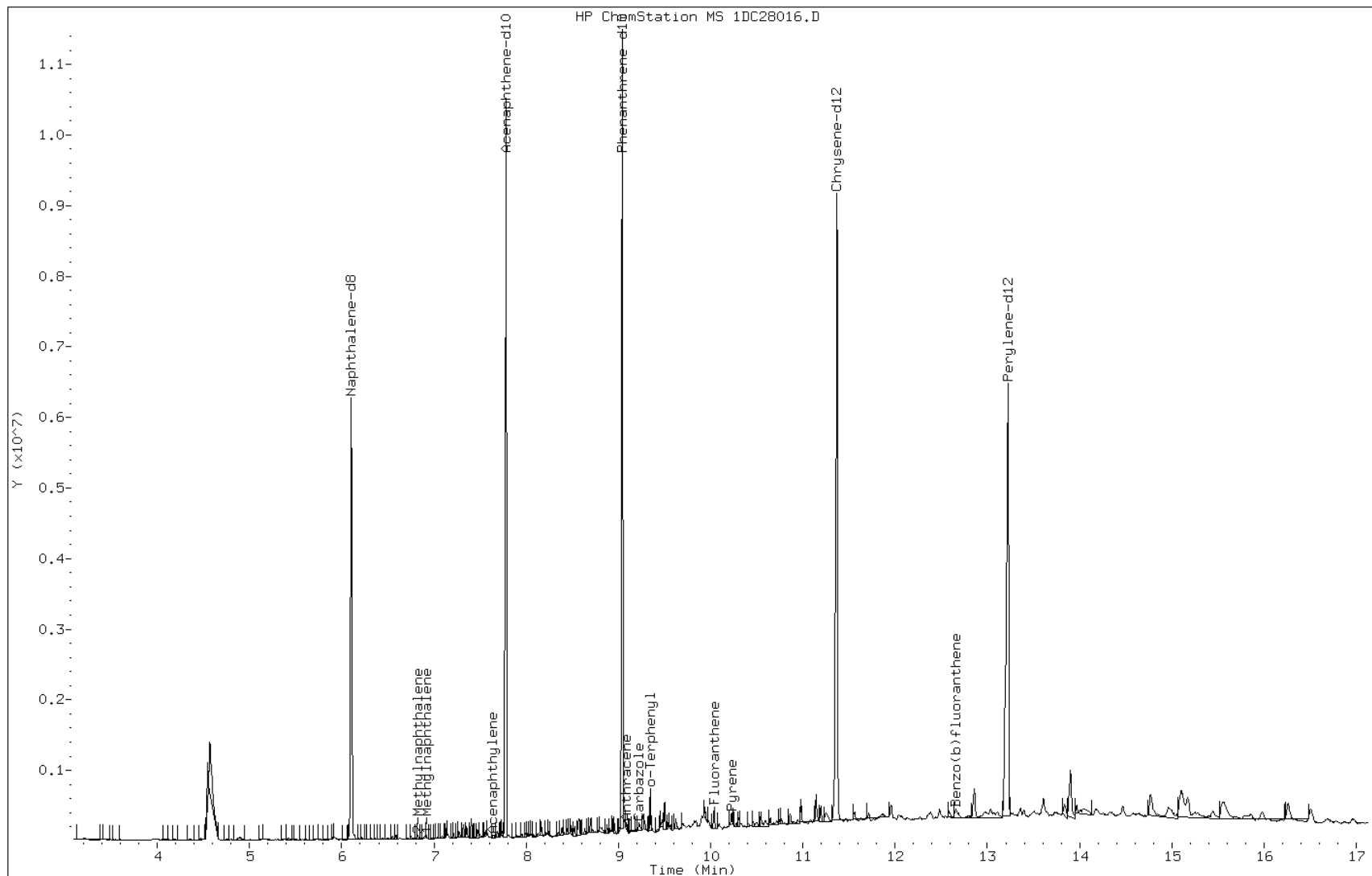
Date: 28-MAR-2013 17:35

Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

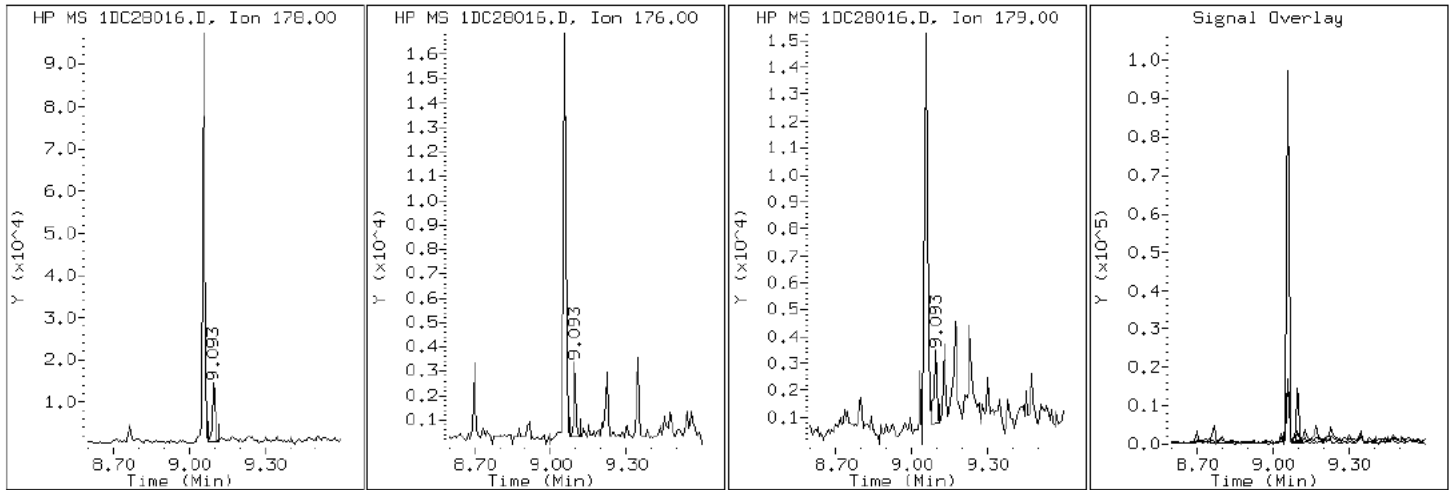
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

11 Anthracene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

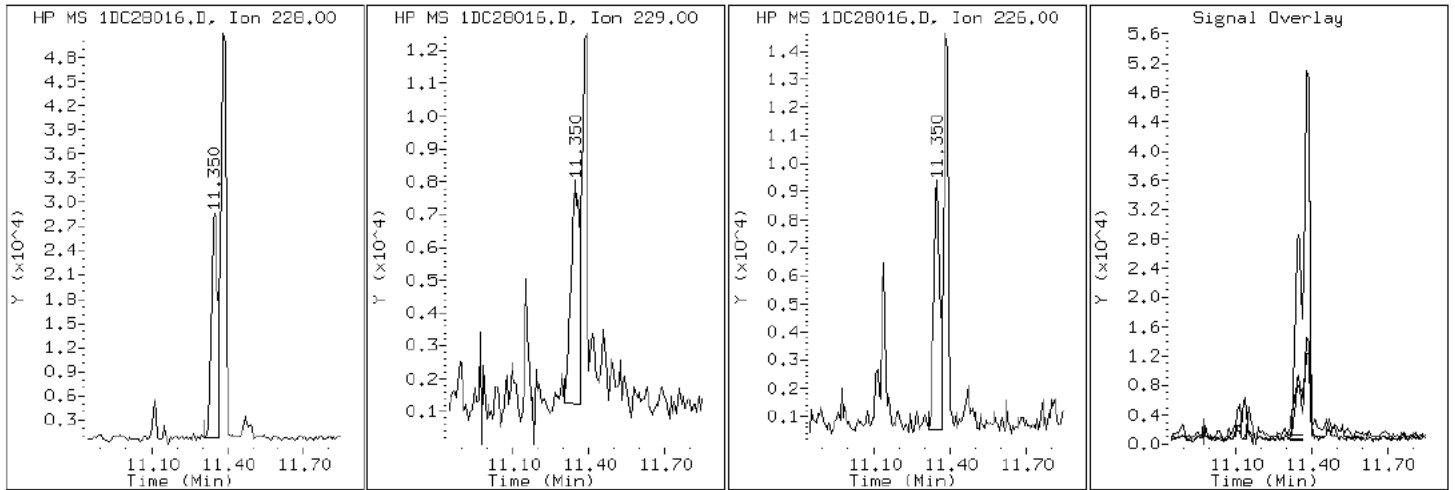
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

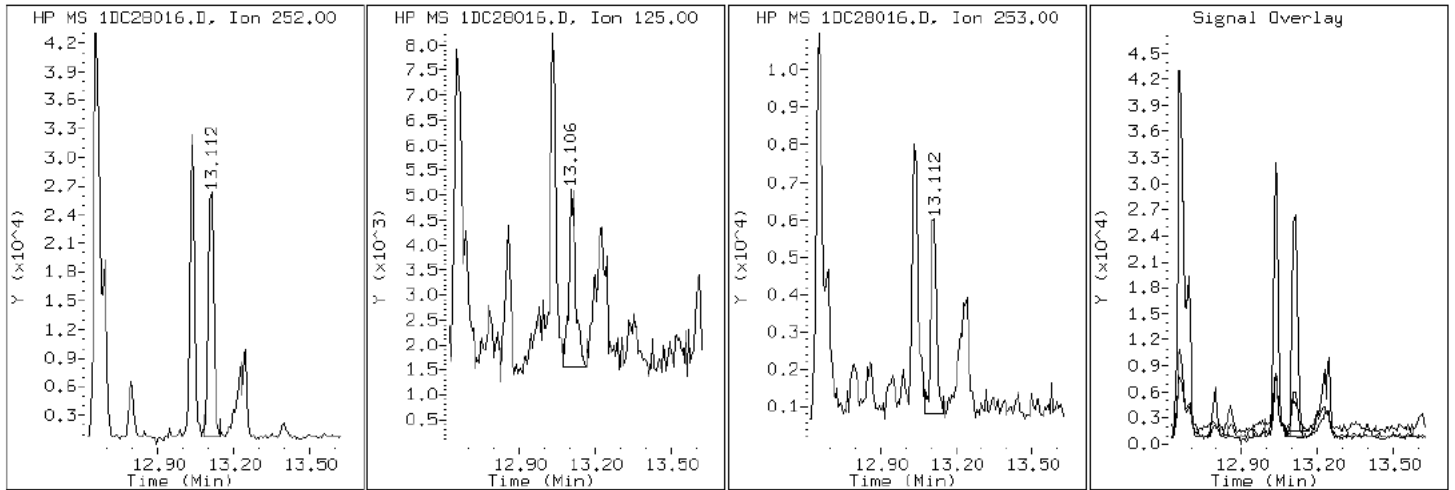
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

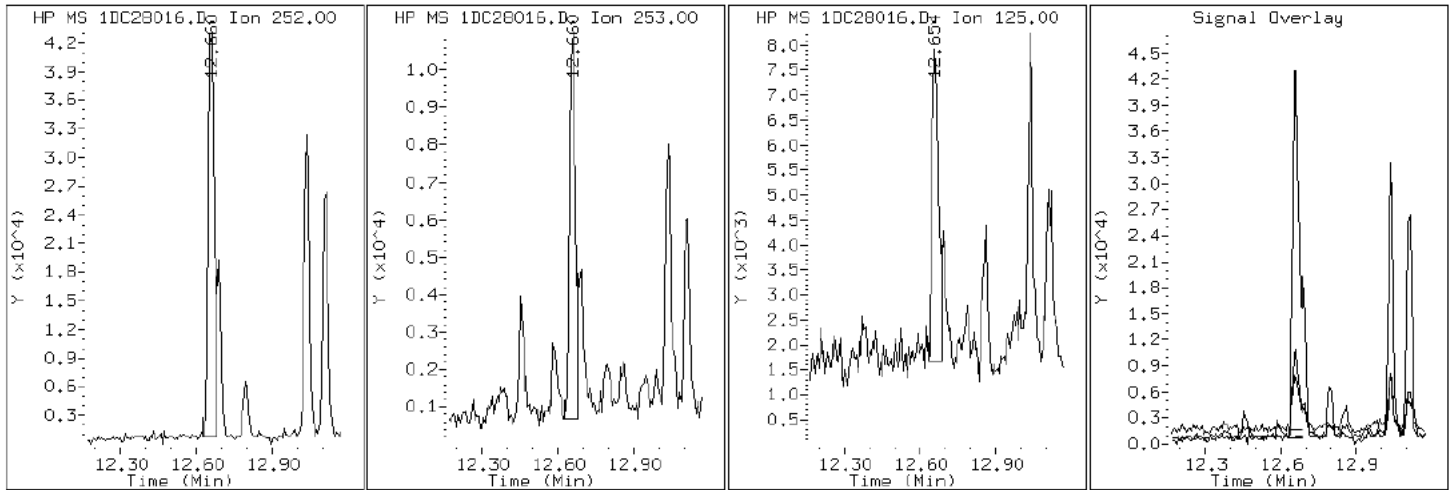
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

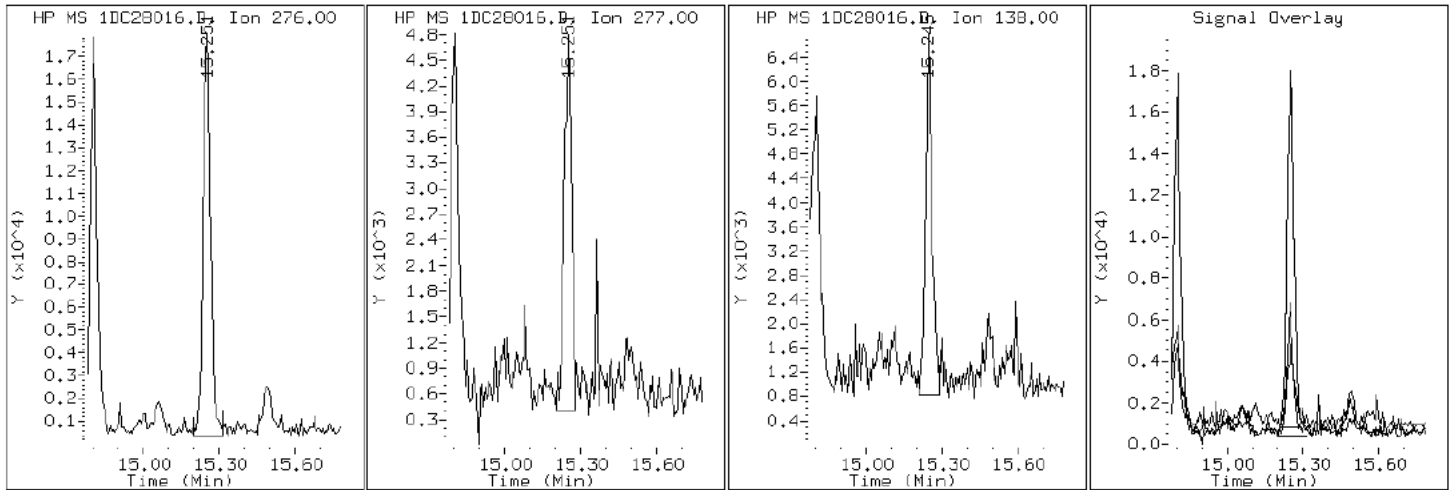
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

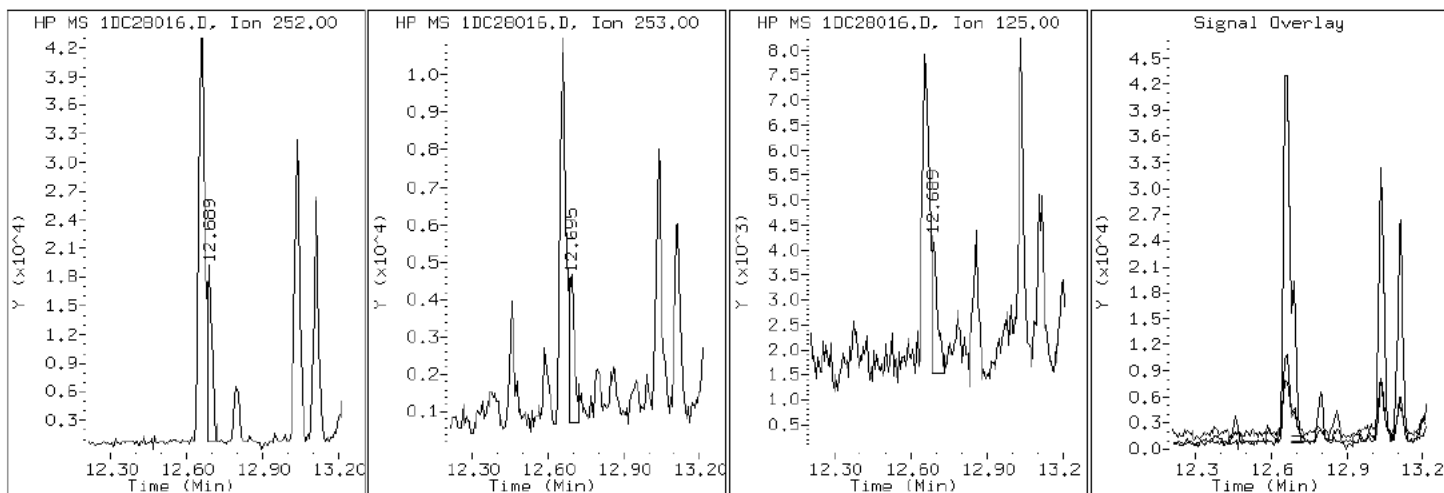
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

20 Benzo(k)fluoranthene





Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

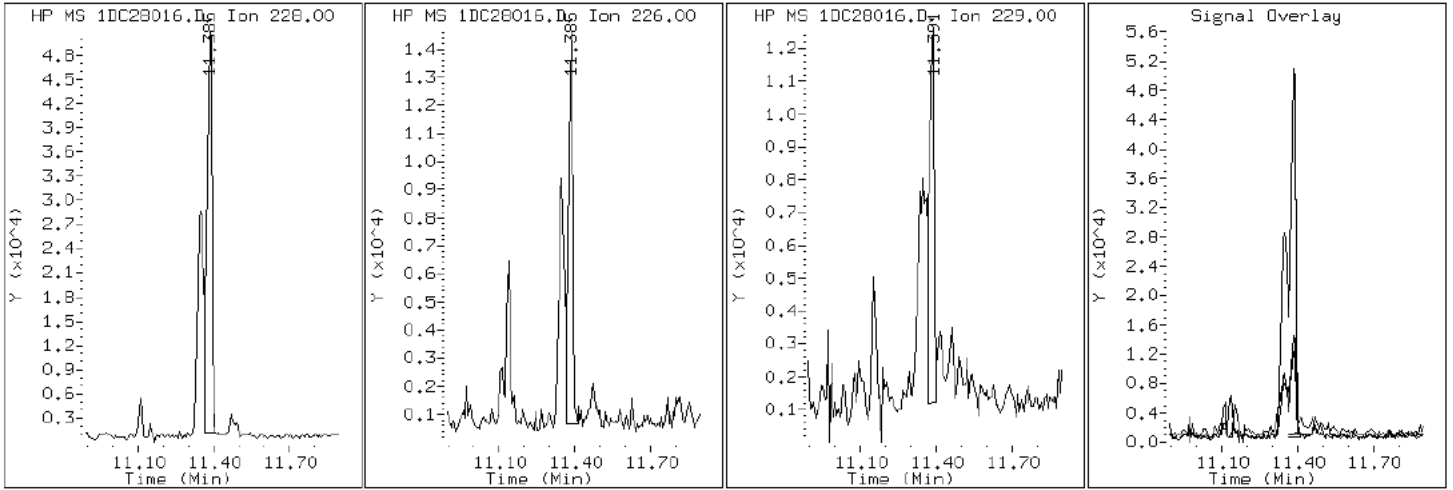
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

18 Chrysene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

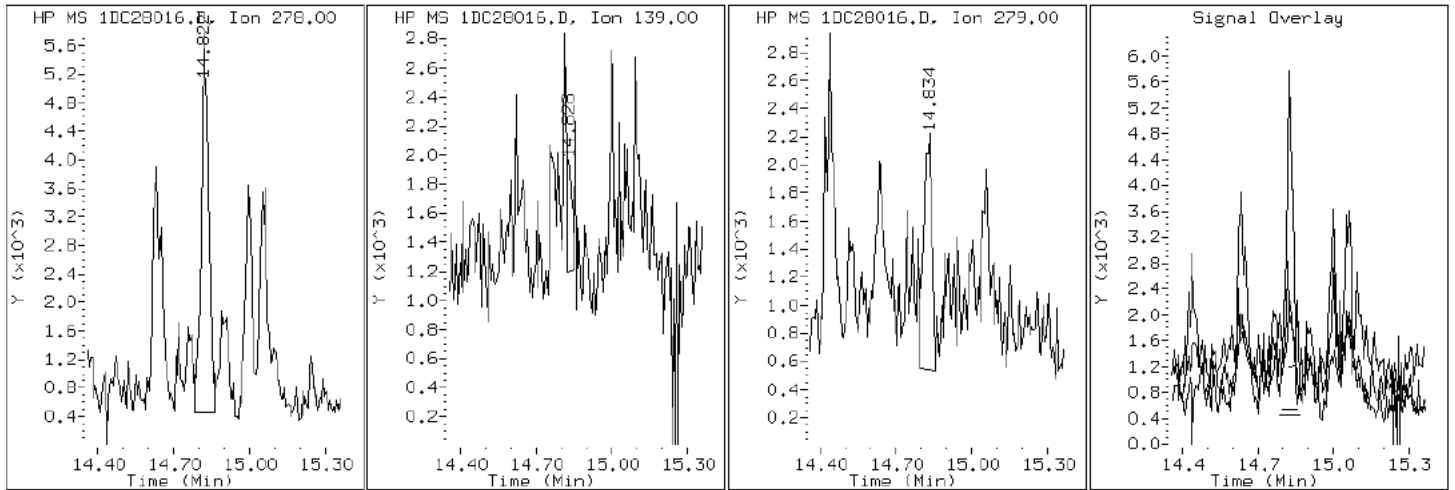
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

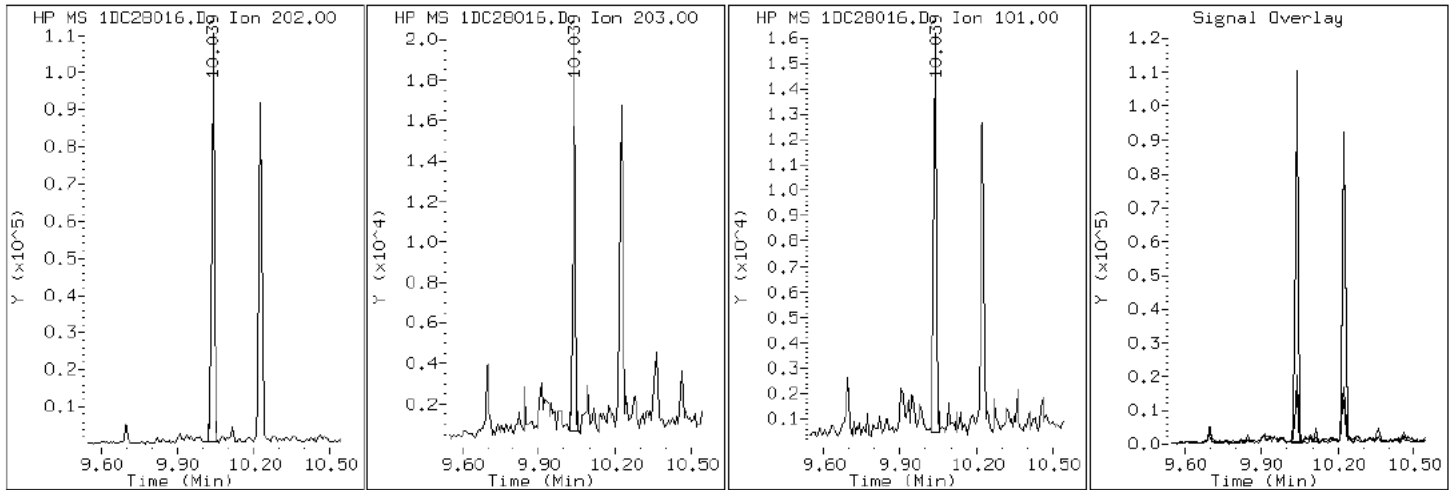
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

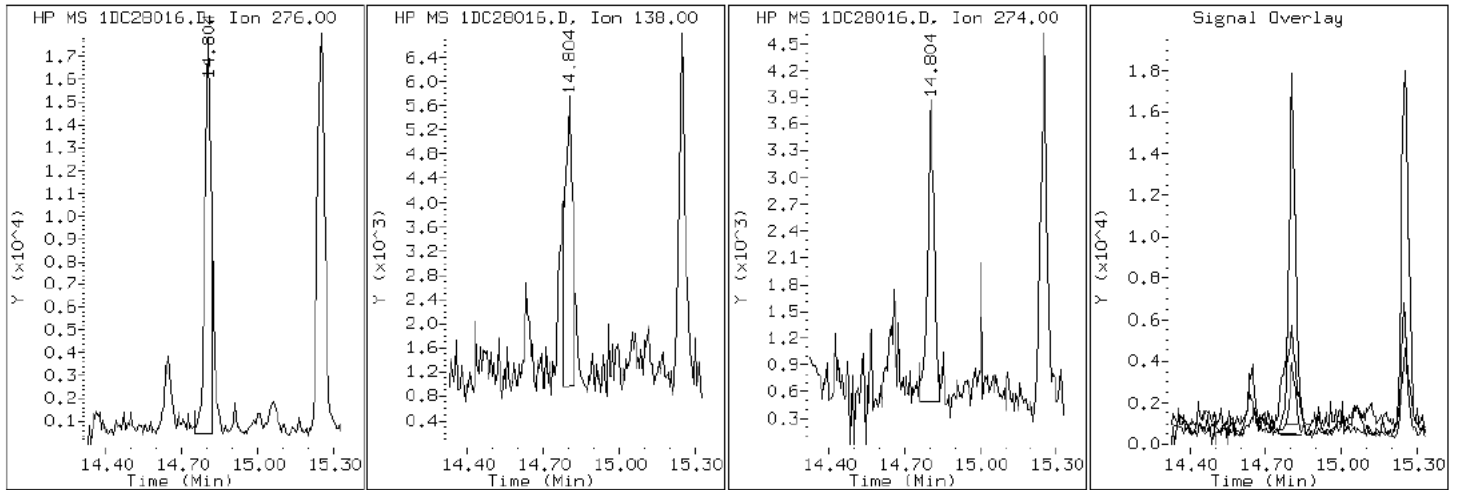
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

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



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

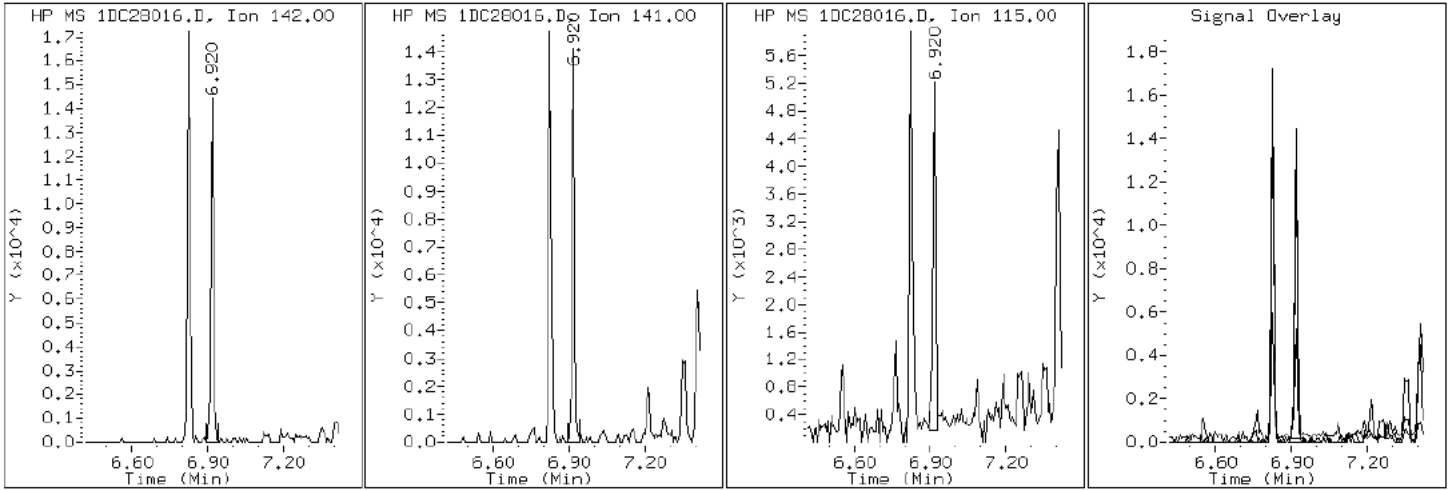
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

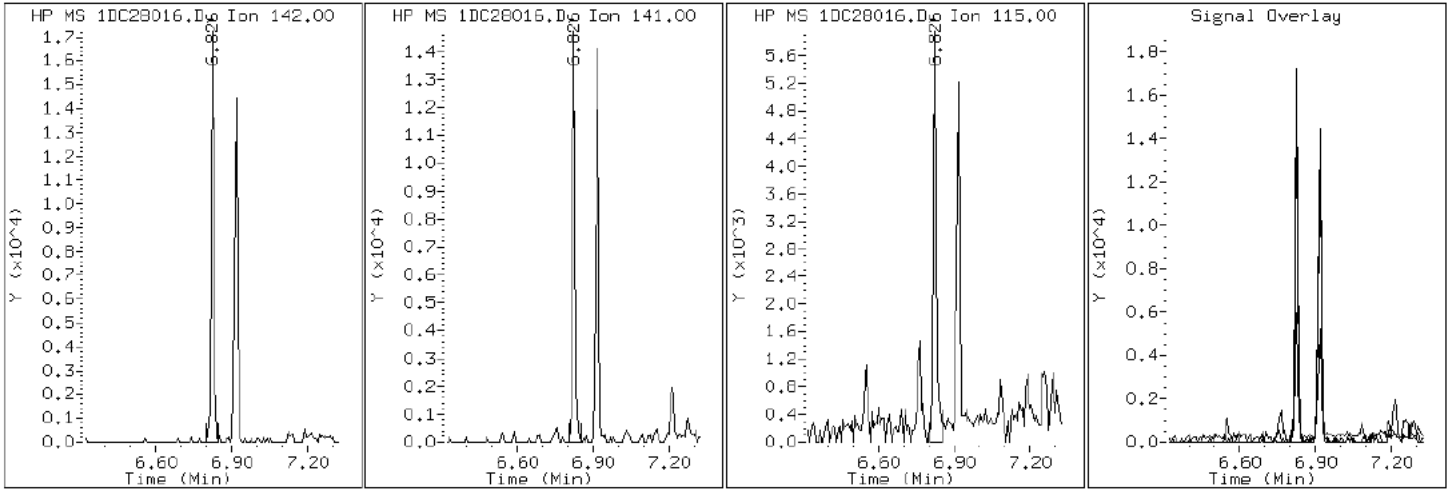
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

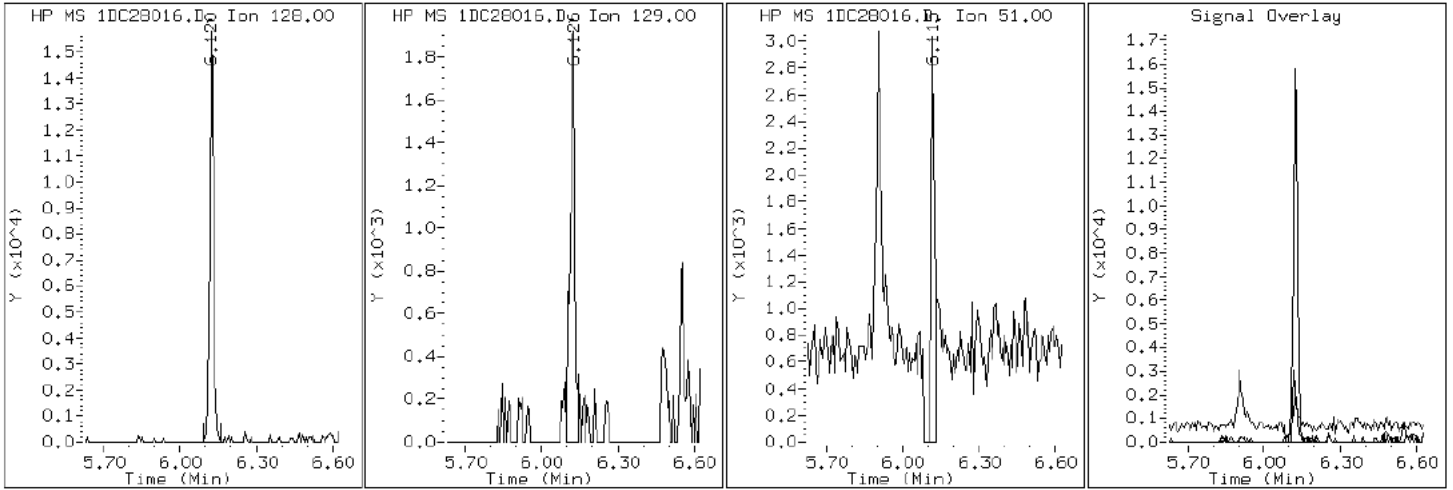
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

2 Naphthalene



Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

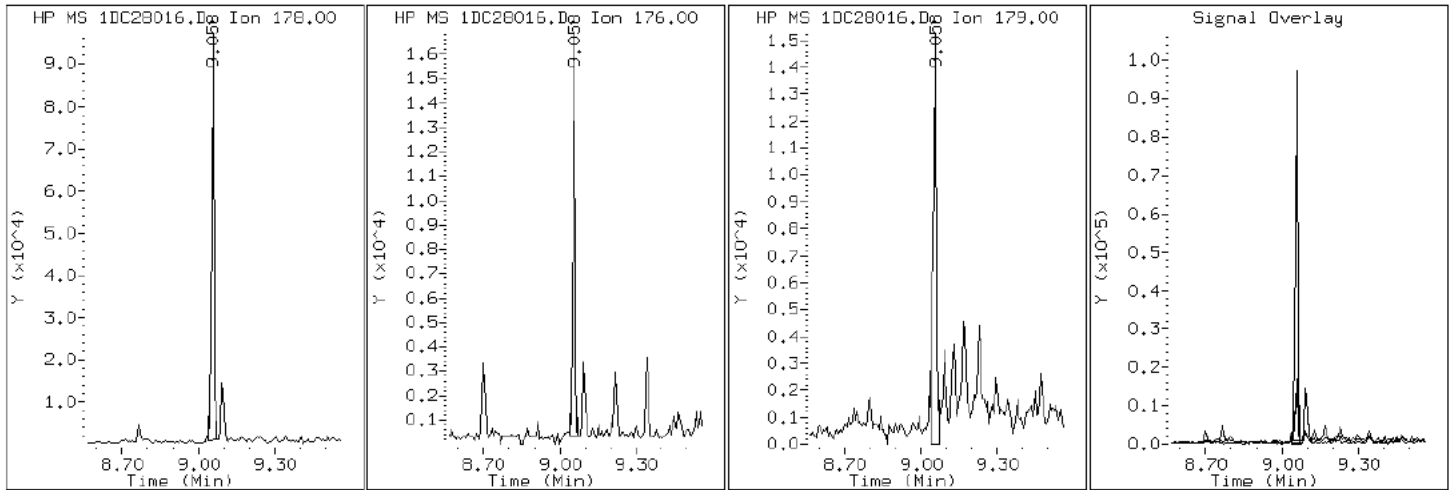
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

10 Phenanthrene





Data File: 1DC28016.D

Date: 28-MAR-2013 17:35

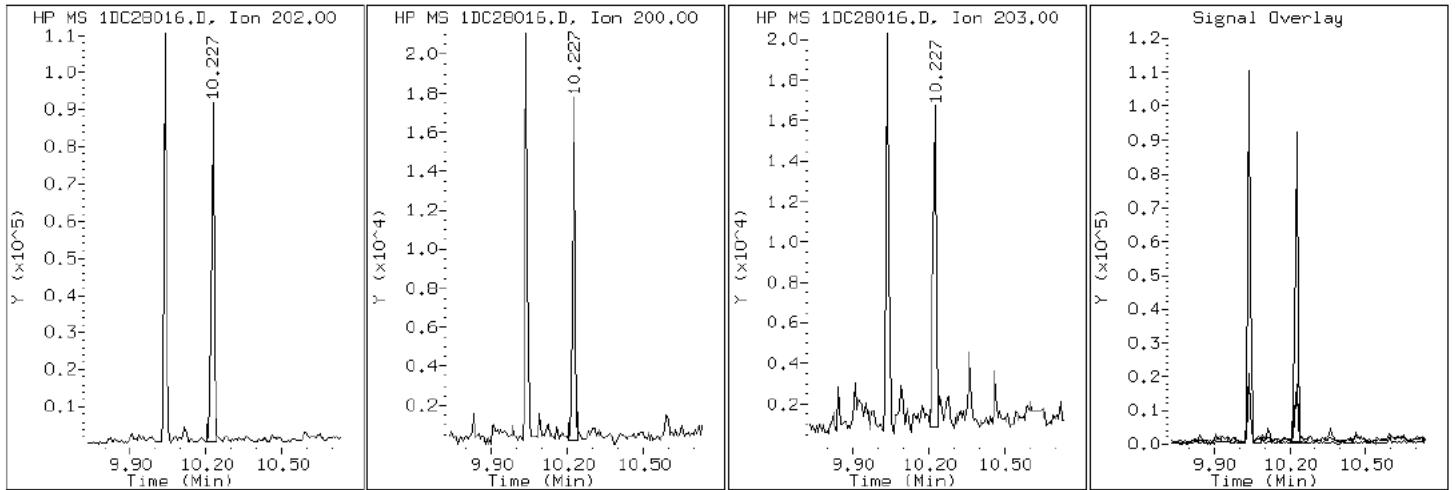
Client ID: FM0341B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-4-A

Operator: SCC

15 Pyrene

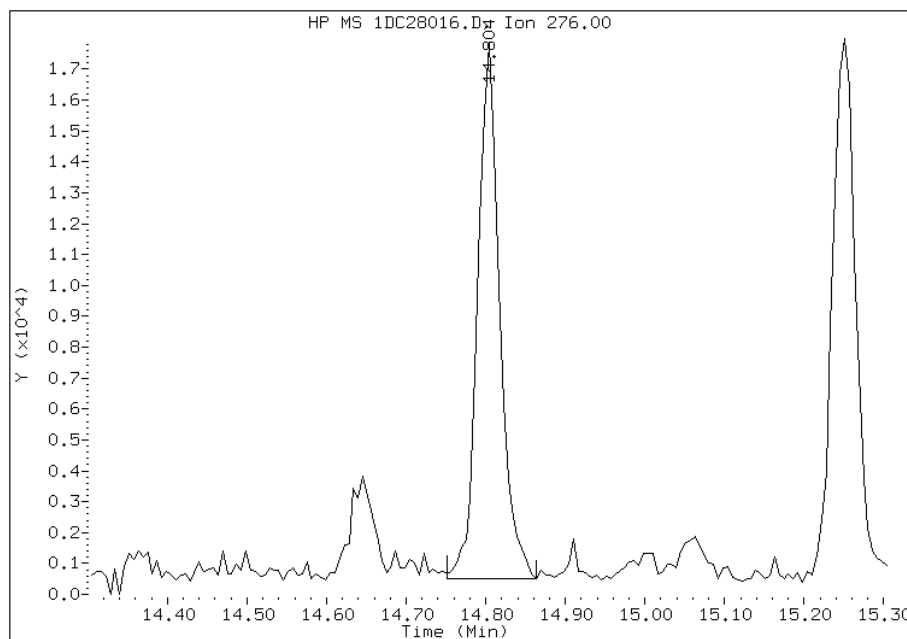


# Manual Integration Report

Data File: 1DC28016.D  
Inj. Date and Time: 28-MAR-2013 17:35  
Instrument ID: BSMSD.i  
Client ID: FM0341B-CS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

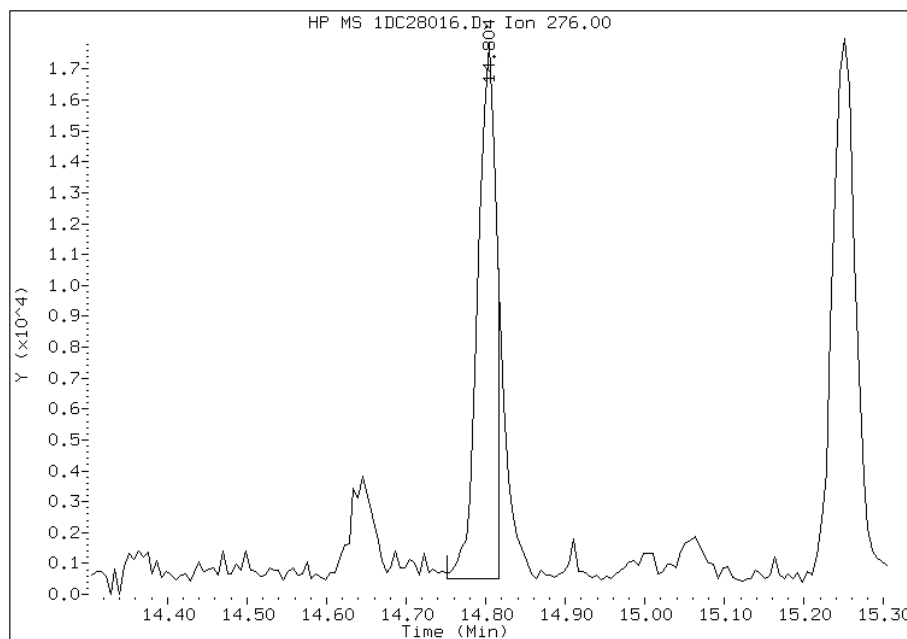
## Processing Integration Results

RT: 14.80  
Response: 33149  
Amount: 0  
Conc: 97



## Manual Integration Results

RT: 14.80  
Response: 28119  
Amount: 0  
Conc: 82



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:57  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0341C-GS Lab Sample ID: 680-88632-5  
 Matrix: Solid Lab File ID: 1DC28017.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:54  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.14(g) Date Analyzed: 03/28/2013 17:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 22.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	12	J	51	6.4
120-12-7	Anthracene	17		11	5.3
56-55-3	Benzo[a]anthracene	88		10	5.0
50-32-8	Benzo[a]pyrene	79		13	6.6
205-99-2	Benzo[b]fluoranthene	150		16	7.8
191-24-2	Benzo[g,h,i]perylene	76		25	5.6
207-08-9	Benzo[k]fluoranthene	44		10	4.6
218-01-9	Chrysene	120		11	5.7
53-70-3	Dibenz(a,h)anthracene	22	J	25	5.2
206-44-0	Fluoranthene	140		25	5.1
86-73-7	Fluorene	6.3	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	55		25	9.0
90-12-0	1-Methylnaphthalene	76		51	5.6
91-57-6	2-Methylnaphthalene	84		51	9.0
91-20-3	Naphthalene	61		51	5.6
85-01-8	Phenanthrene	120		10	5.0
129-00-0	Pyrene	110		25	4.7

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

TestAmerica Laboratories

Semivolatle 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28017.D  
 Lab Smp Id: 680-88632-A-5-A Client Smp ID: FM0341C-GS  
 Inj Date : 28-MAR-2013 17:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-5-A  
 Misc Info : 680-88632-A-5-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 17  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	22.172	% 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	6.101	6.102	(1.000)	3672729	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2373822	40.0000	
* 9 Phenanthrene-d10	188	9.044	9.040	(1.000)	3972113	40.0000	
\$ 13 o-Terphenyl	230	9.344	9.351	(1.033)	322487	5.25011	440
* 17 Chrysene-d12	240	11.371	11.373	(1.000)	4084905	40.0000	
* 22 Perylene-d12	264	13.234	13.223	(1.000)	4280381	40.0000	
2 Naphthalene	128	6.124	6.126	(1.004)	70529	0.71787	61
3 2-Methylnaphthalene	142	6.823	6.825	(1.118)	61918	0.98934	84
4 1-Methylnaphthalene	142	6.917	6.919	(1.134)	52770	0.90041	76
5 Acenaphthylene	152	7.646	7.653	(0.983)	14423	0.13781	12
8 Fluorene	166	8.245	8.247	(1.060)	5525	0.07411	6.3(Q)
10 Phenanthrene	178	9.056	9.064	(1.001)	159870	1.41785	120
11 Anthracene	178	9.097	9.099	(1.006)	22766	0.20180	17
12 Carbazole	167	9.238	9.240	(1.021)	16628	0.16488	14

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.037	10.045	(1.110)	199955	1.69931	140
15 Pyrene	202	10.225	10.233	(0.899)	170799	1.34795	110
16 Benzo(a)anthracene	228	11.353	11.349	(0.998)	115599	1.03365	88
18 Chrysene	228	11.389	11.396	(1.002)	166213	1.43959	120
19 Benzo(b)fluoranthene	252	12.664	12.671	(0.957)	197129	1.78922	150(H)
20 Benzo(k)fluoranthene	252	12.693	12.712	(0.959)	59381	0.51475	44(H)
21 Benzo(a)pyrene	252	13.116	13.124	(0.991)	102033	0.93584	79
23 Indeno(1,2,3-cd)pyrene	276	14.814	14.827	(1.119)	75731	0.65087	55(M)
24 Dibenzo(a,h)anthracene	278	14.843	14.863	(1.122)	28163	0.26209	22
25 Benzo(g,h,i)perylene	276	15.272	15.280	(1.154)	98914	0.89163	76

QC Flag Legend

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

Data File: 1DC28017.D

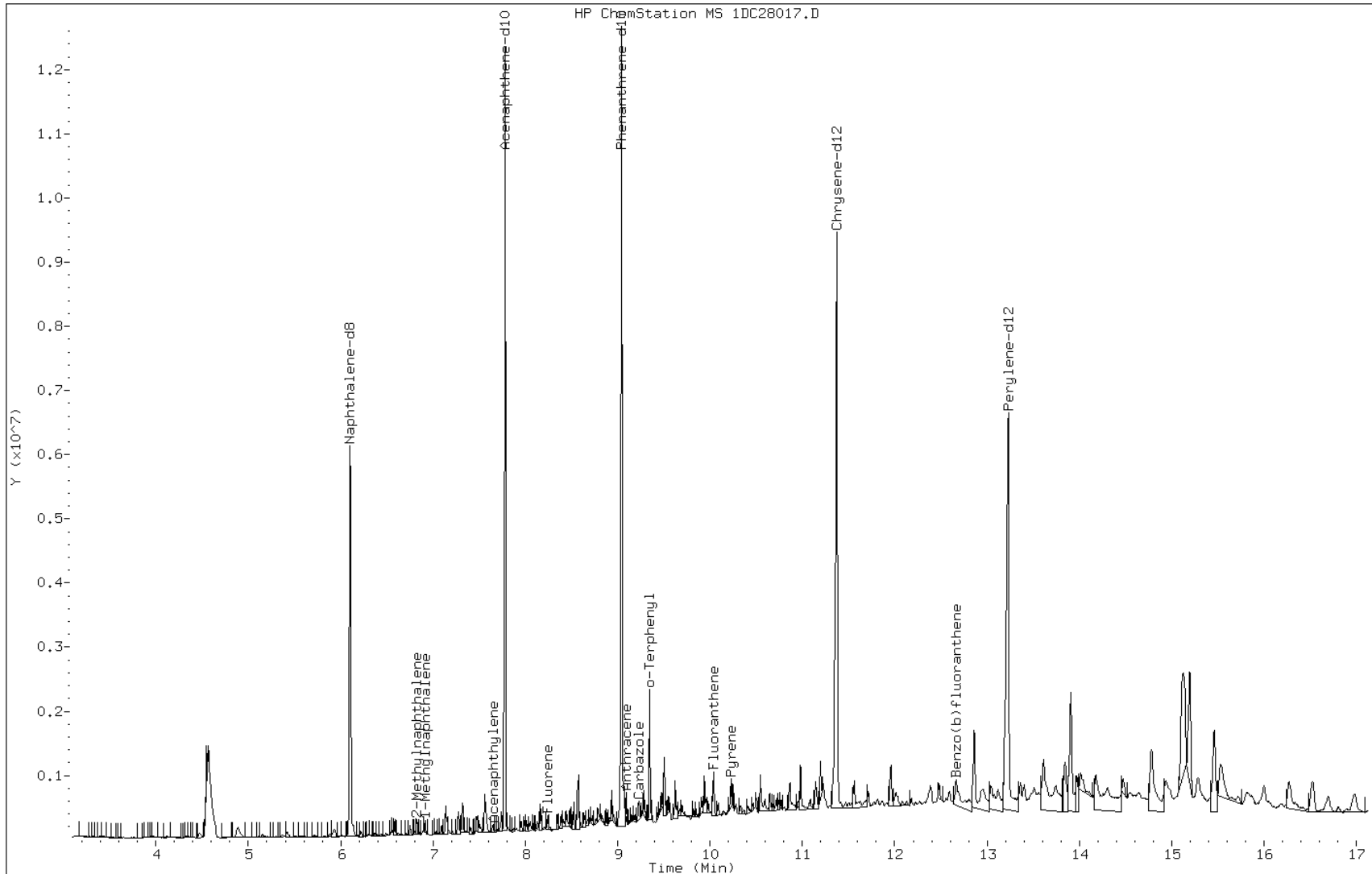
Date: 28-MAR-2013 17:57

Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

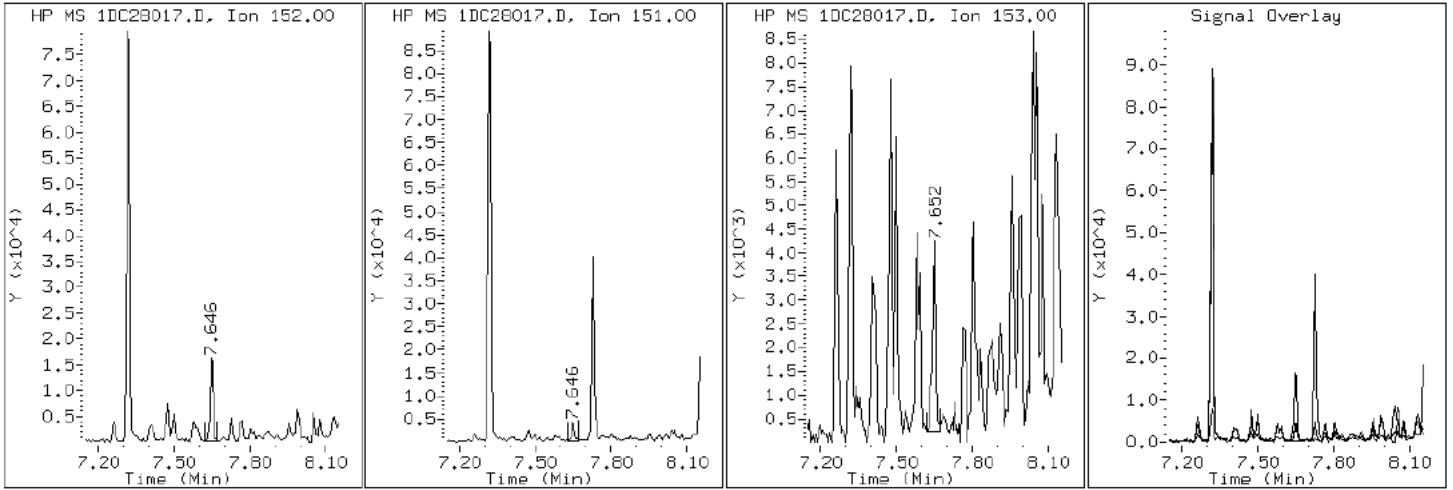
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

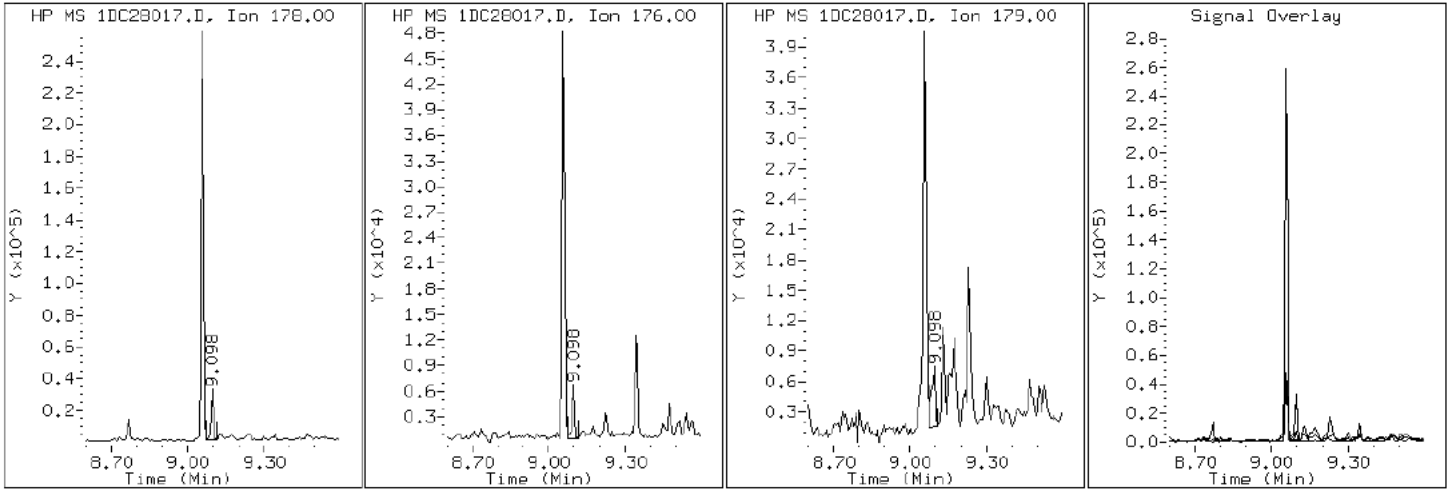
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

11 Anthracene





Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

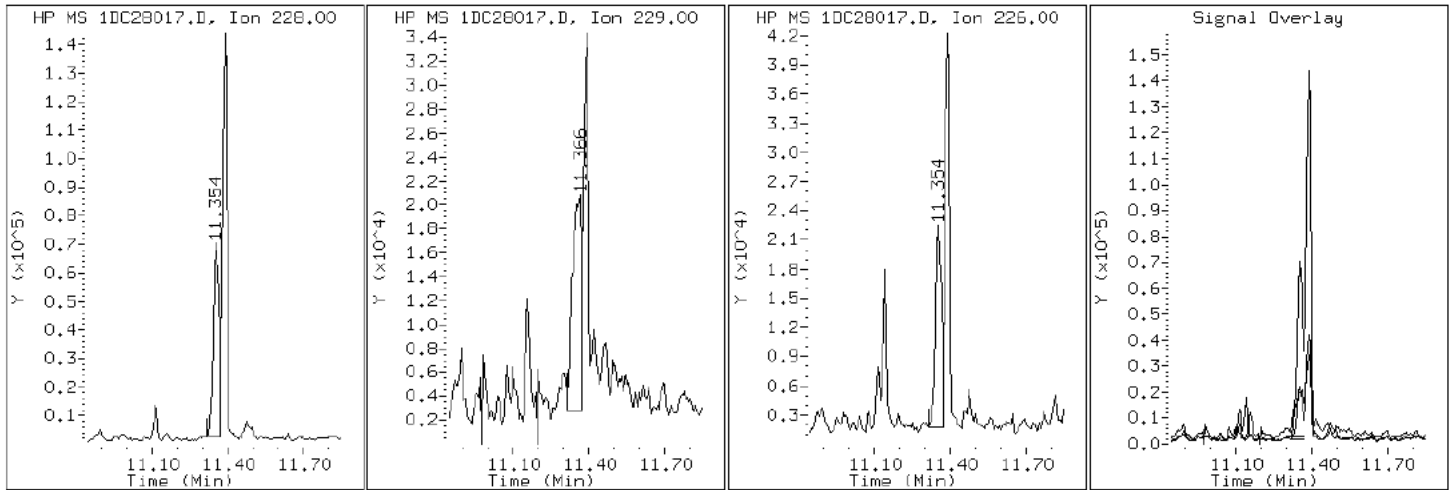
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

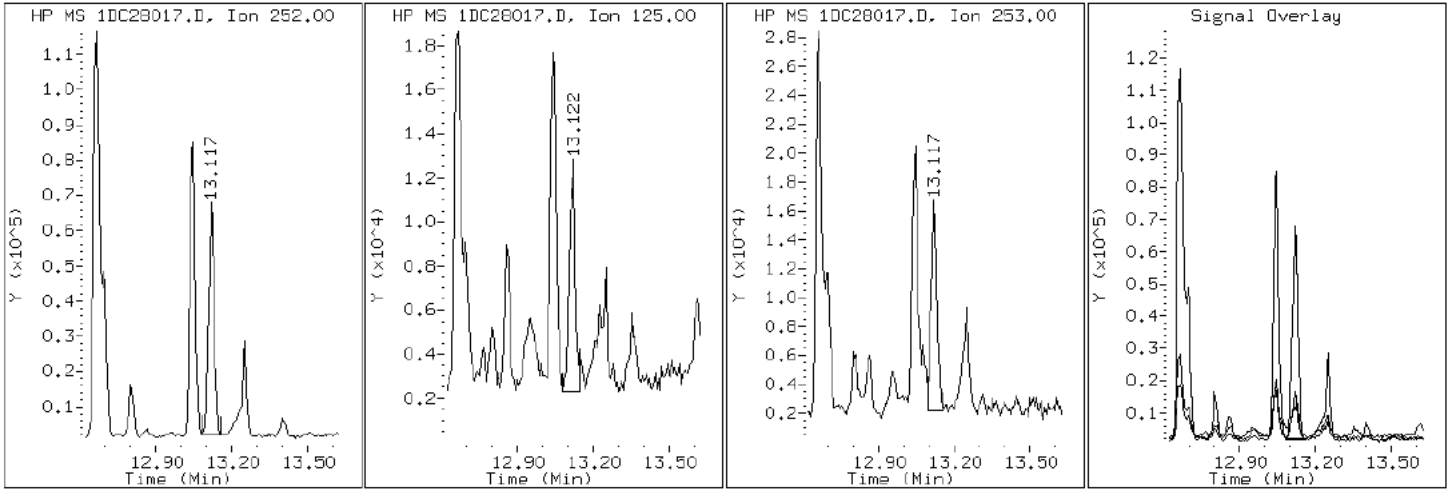
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

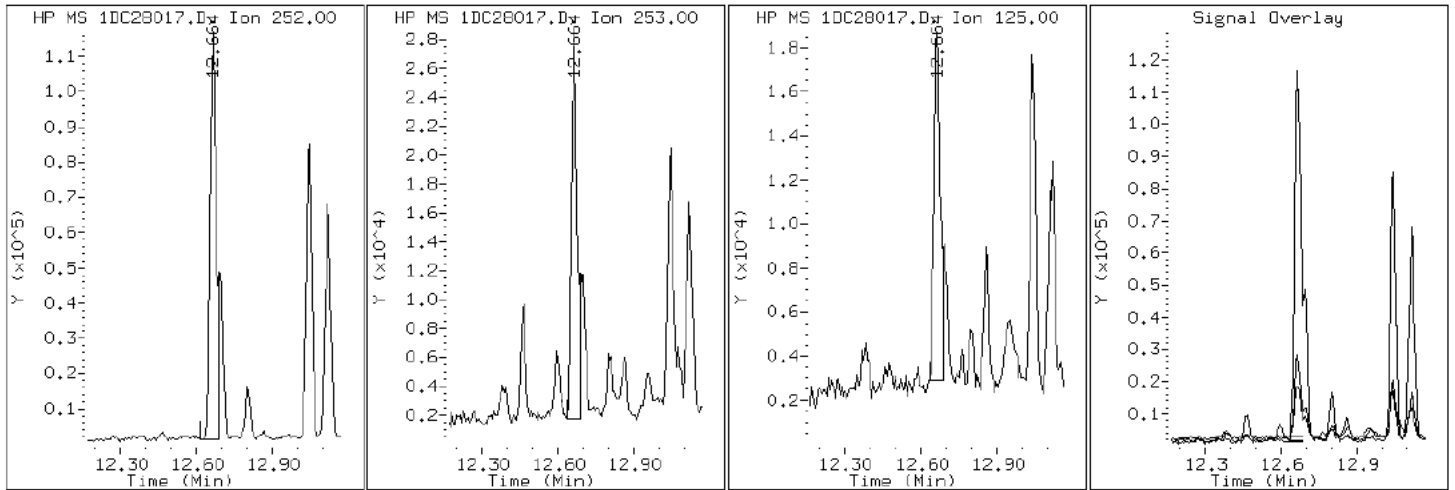
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

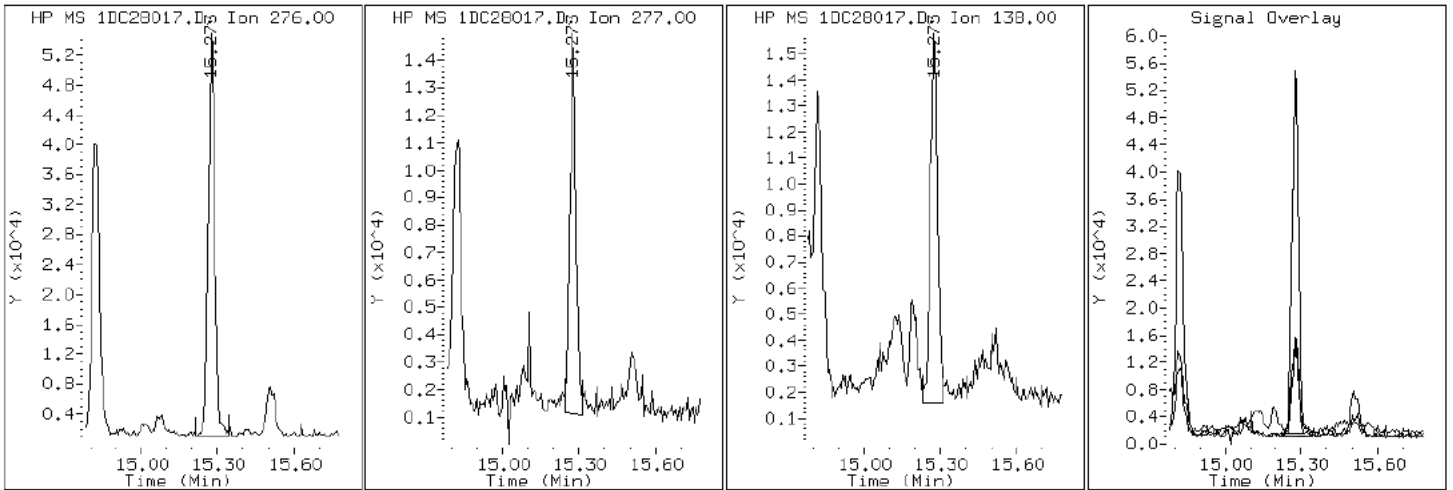
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

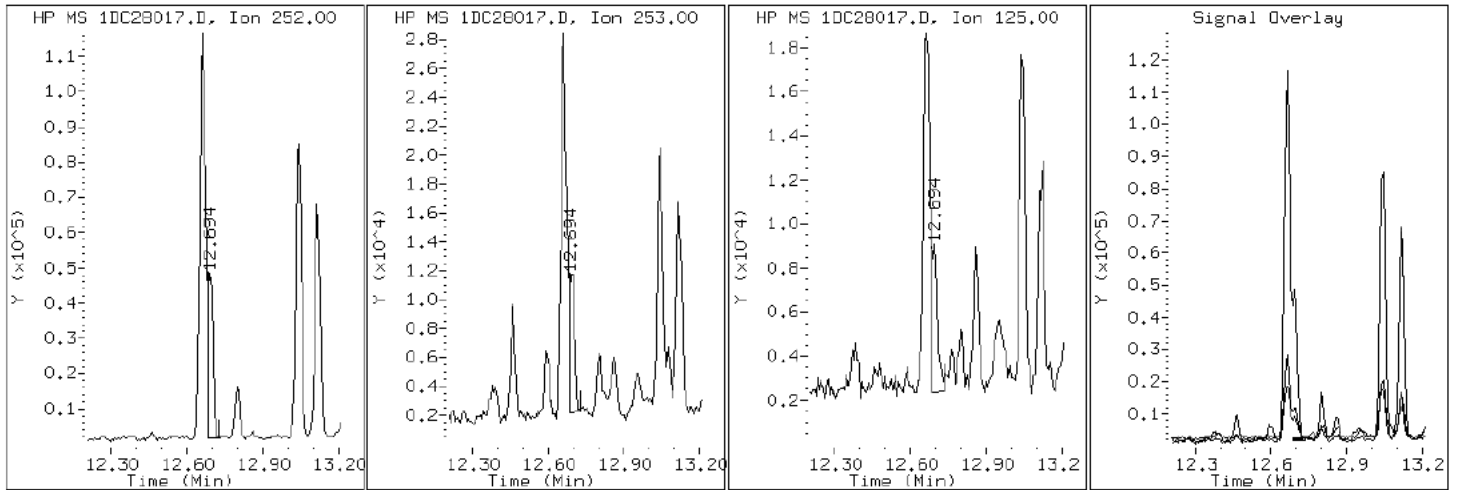
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

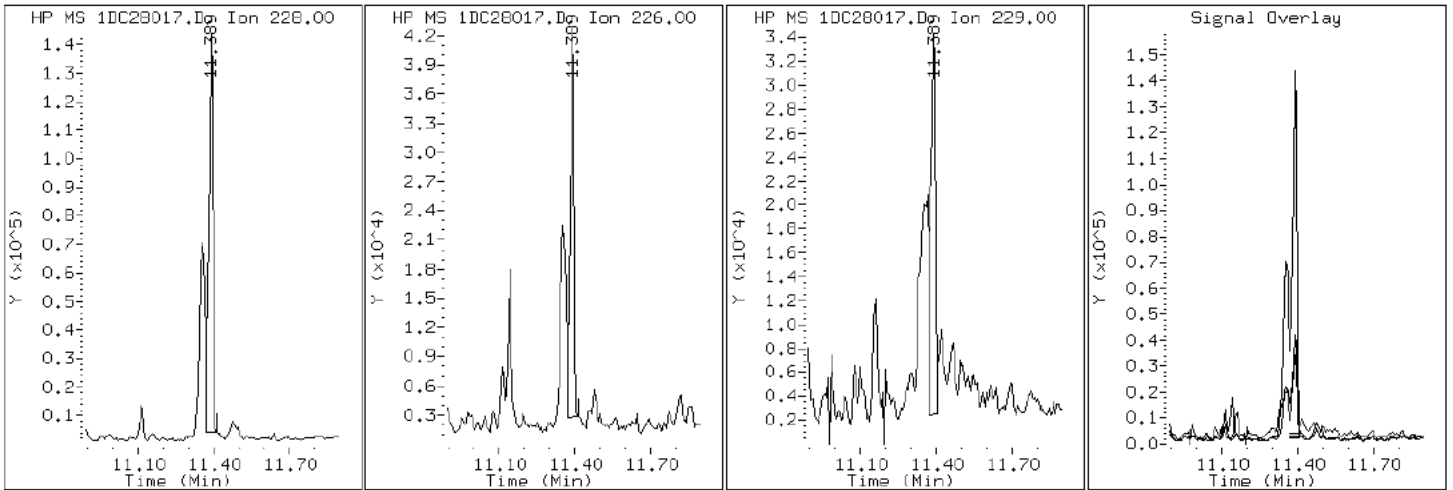
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

18 Chrysene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

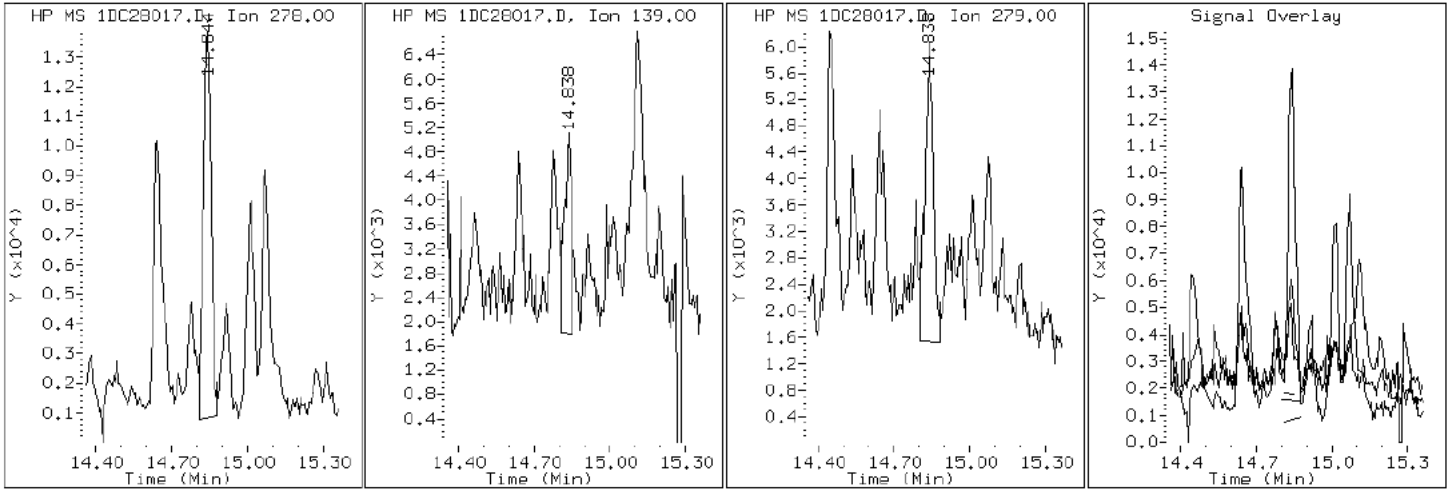
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

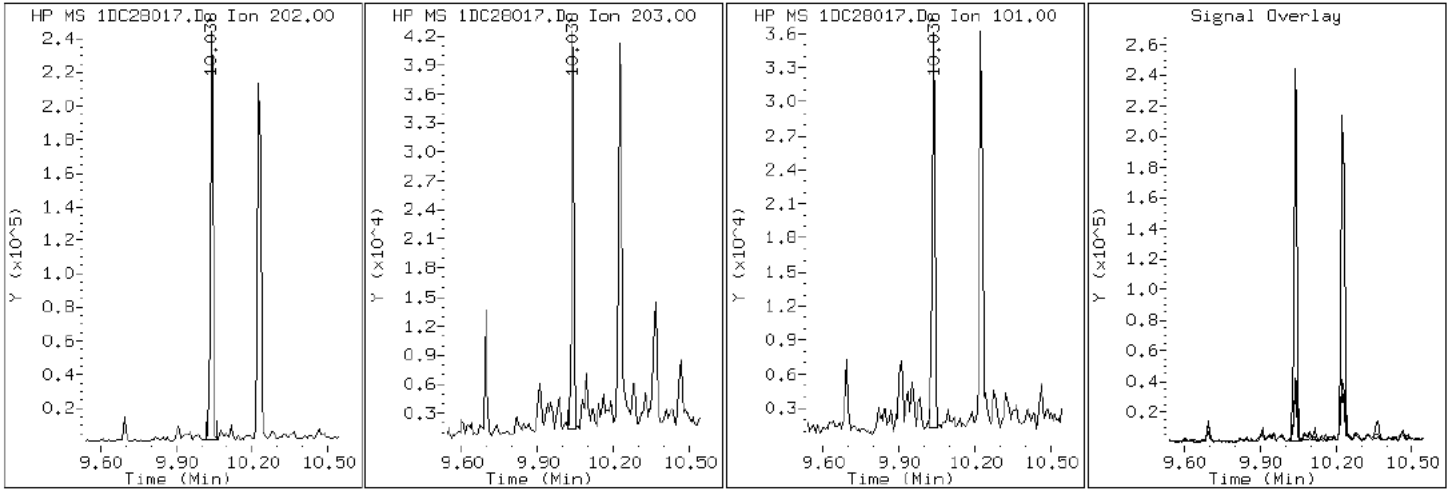
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

14 Fluoranthene





Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

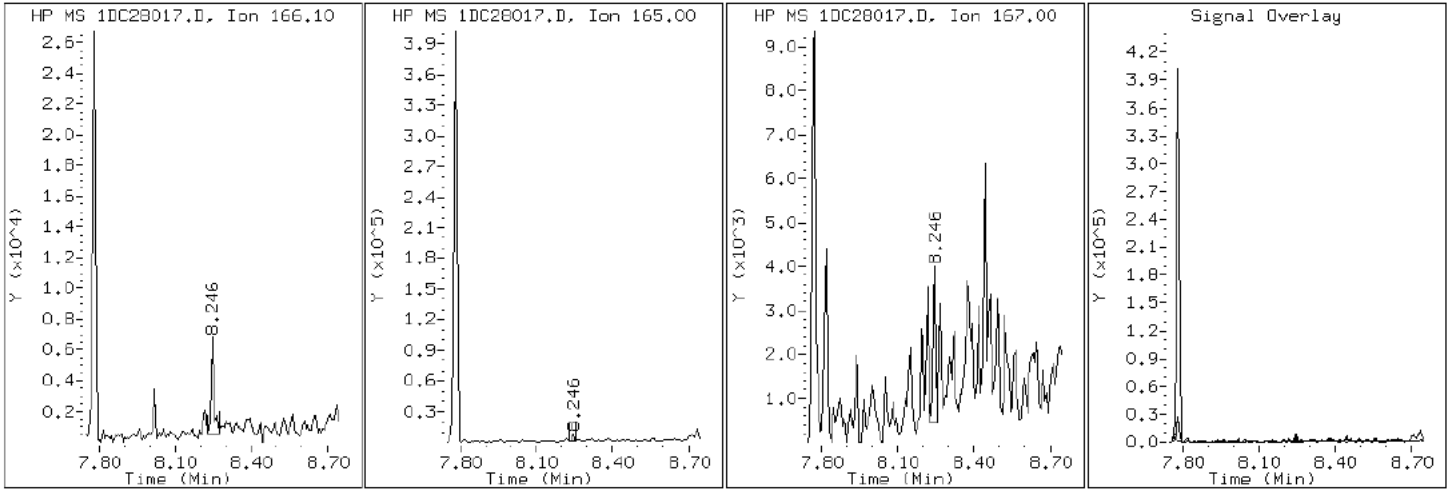
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

8 Fluorene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

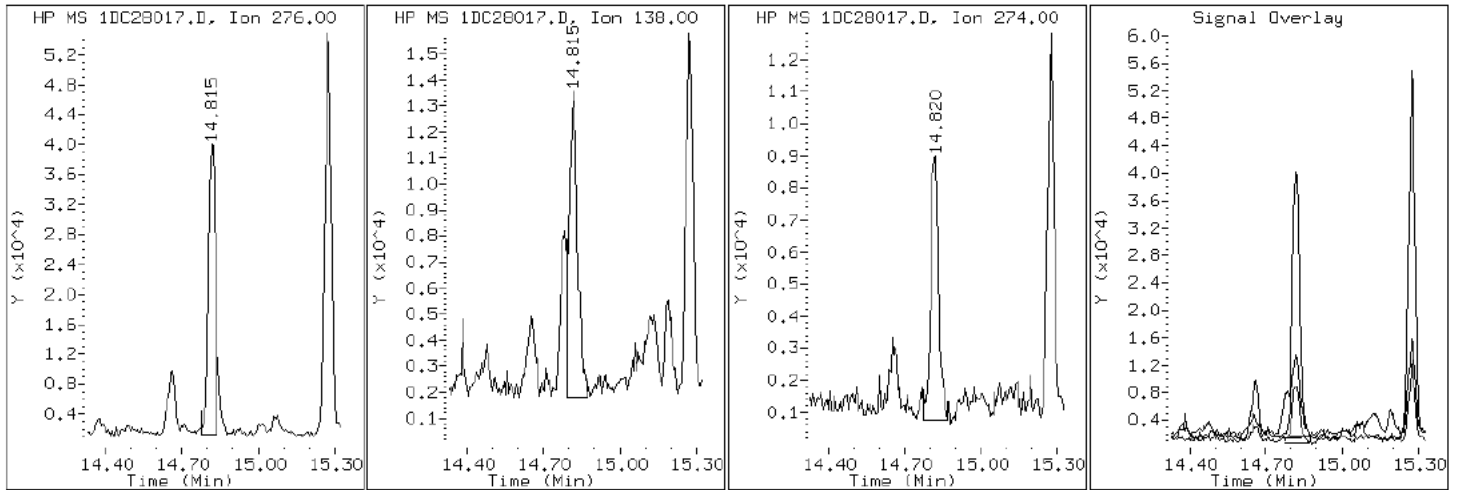
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

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



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

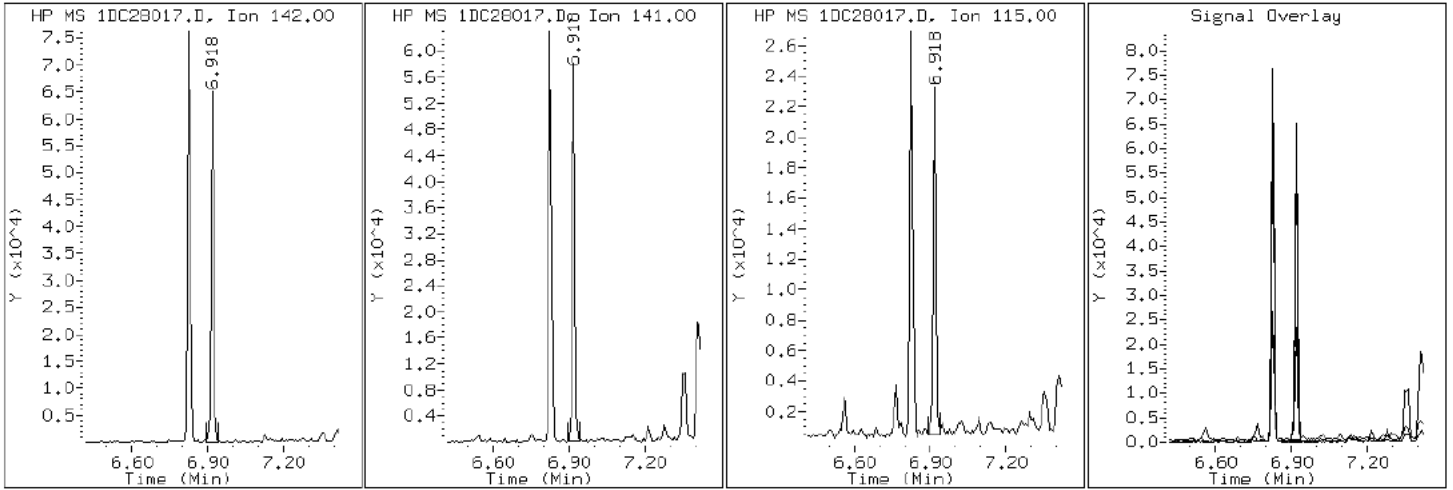
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

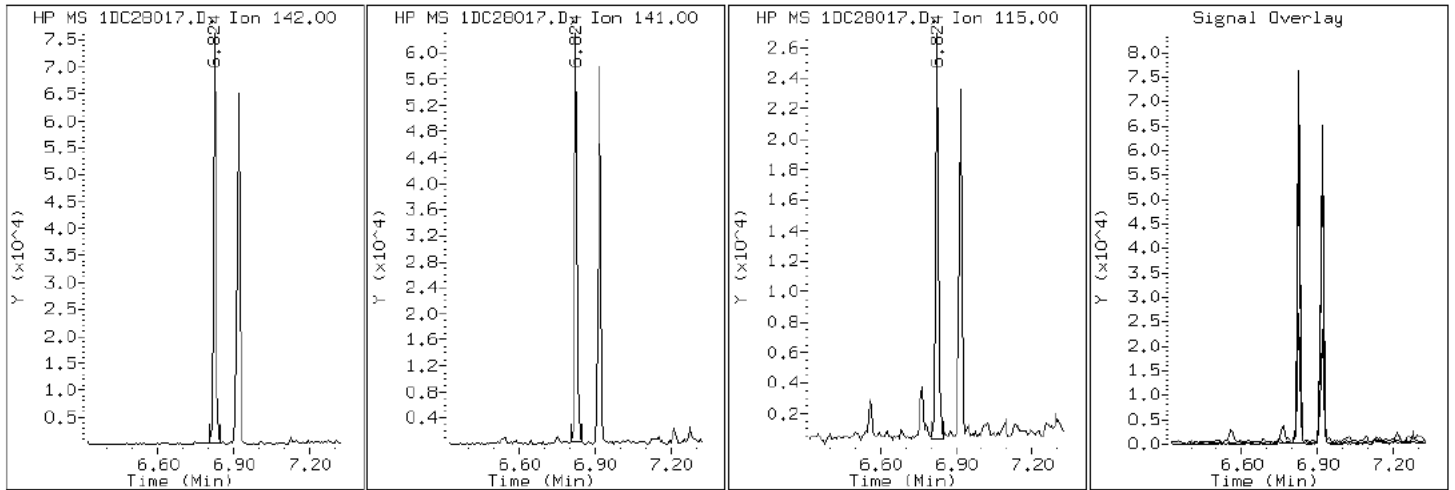
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

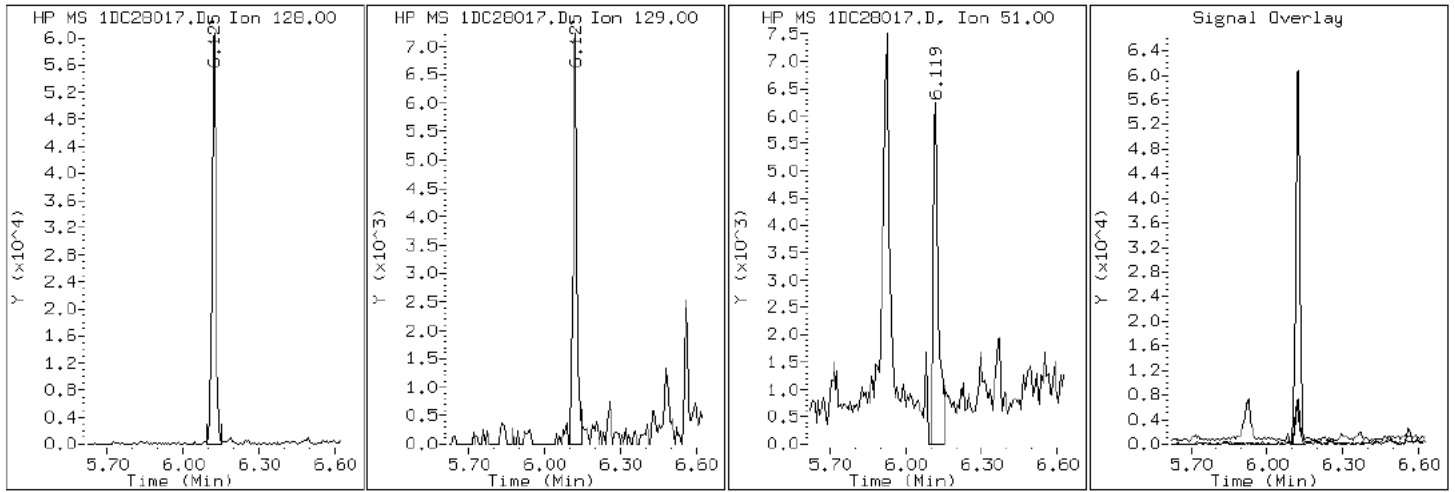
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

2 Naphthalene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

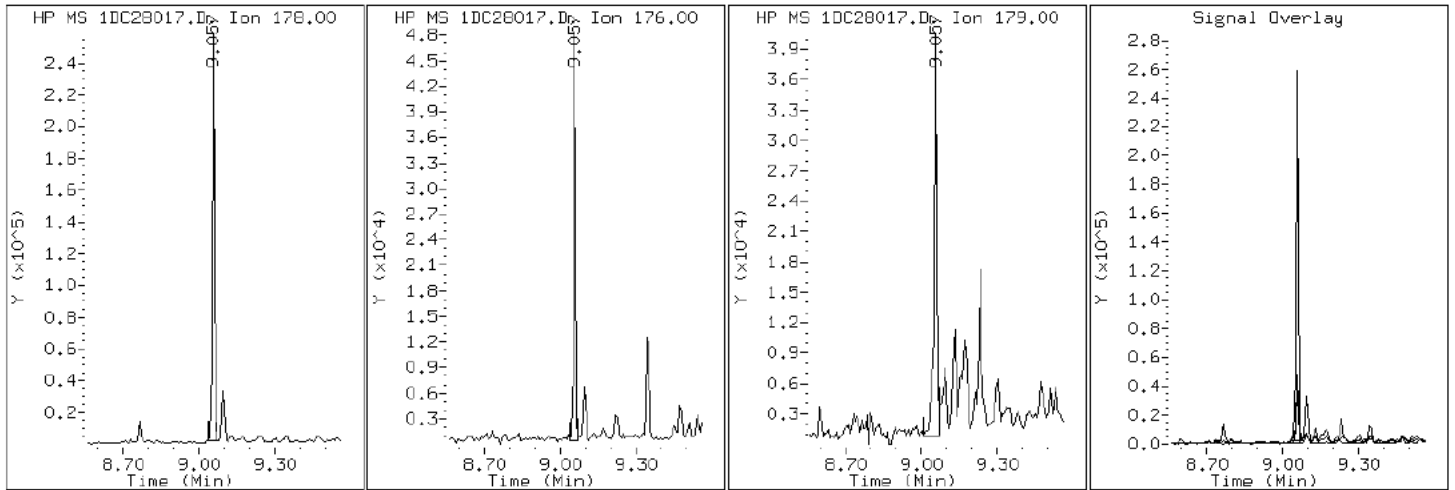
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28017.D

Date: 28-MAR-2013 17:57

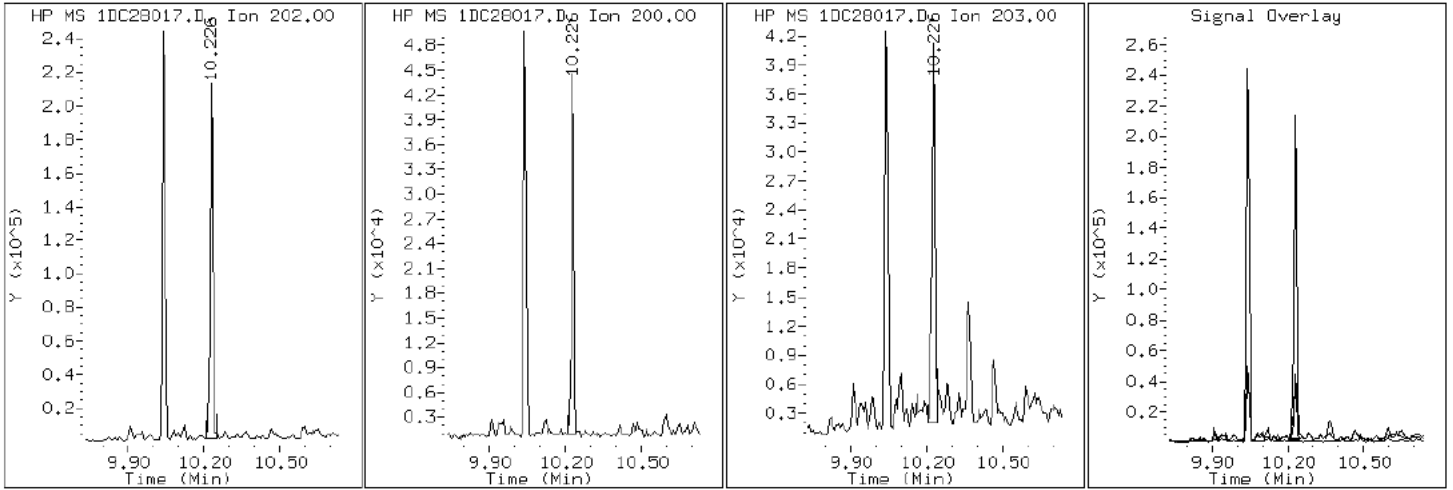
Client ID: FM0341C-GS

Instrument: BSMSD.i

Sample Info: 680-88632-A-5-A

Operator: SCC

15 Pyrene

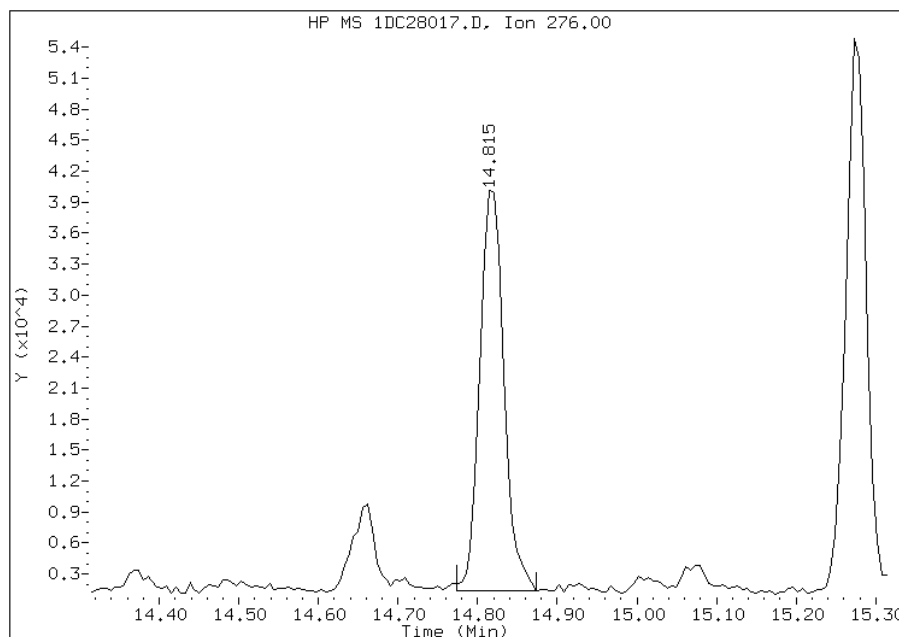


# Manual Integration Report

Data File: 1DC28017.D  
Inj. Date and Time: 28-MAR-2013 17:57  
Instrument ID: BSMSD.i  
Client ID: FM0341C-GS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

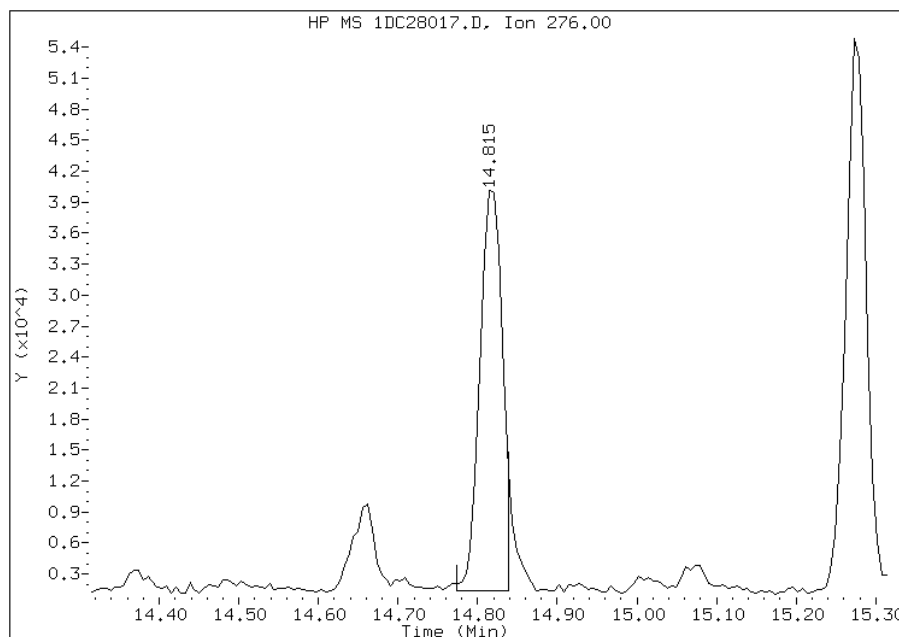
## Processing Integration Results

RT: 14.81  
Response: 81241  
Amount: 1  
Conc: 59



## Manual Integration Results

RT: 14.81  
Response: 75731  
Amount: 1  
Conc: 55



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:58  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0343A-CS Lab Sample ID: 680-88632-6  
 Matrix: Solid Lab File ID: 1DC28018.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 10:30  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.80(g) Date Analyzed: 03/28/2013 18:20  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 12.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	6.8	J	46	5.8
120-12-7	Anthracene	5.1	J	9.7	4.8
56-55-3	Benzo[a]anthracene	30		9.2	4.5
50-32-8	Benzo[a]pyrene	28		12	6.0
205-99-2	Benzo[b]fluoranthene	47		14	7.0
191-24-2	Benzo[g,h,i]perylene	26		23	5.1
207-08-9	Benzo[k]fluoranthene	15		9.2	4.1
218-01-9	Chrysene	51		10	5.2
53-70-3	Dibenz(a,h)anthracene	9.3	J	23	4.7
206-44-0	Fluoranthene	46		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	18	J	23	8.2
90-12-0	1-Methylnaphthalene	270		46	5.1
91-57-6	2-Methylnaphthalene	220		46	8.2
91-20-3	Naphthalene	180		46	5.1
85-01-8	Phenanthrene	170		9.2	4.5
129-00-0	Pyrene	42		23	4.3

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28018.D  
 Lab Smp Id: 680-88632-A-6-A Client Smp ID: FM0343A-CS  
 Inj Date : 28-MAR-2013 18:20  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-6-A  
 Misc Info : 680-88632-A-6-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 18  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.800	Weight Extracted
M	12.048	% 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	6.104	6.102	(1.000)	3731977	40.0000	
* 6 Acenaphthene-d10	164	7.784	7.777	(1.000)	2433375	40.0000	
* 9 Phenanthrene-d10	188	9.047	9.040	(1.000)	4057165	40.0000	
\$ 13 o-Terphenyl	230	9.347	9.351	(1.033)	298643	4.76000	360
* 17 Chrysene-d12	240	11.374	11.373	(1.000)	4126662	40.0000	
* 22 Perylene-d12	264	13.230	13.223	(1.000)	4341752	40.0000	
2 Naphthalene	128	6.121	6.126	(1.003)	230093	2.30478	180
3 2-Methylnaphthalene	142	6.826	6.825	(1.118)	179096	2.81622	220
4 1-Methylnaphthalene	142	6.920	6.919	(1.134)	208681	3.50419	270
5 Acenaphthylene	152	7.649	7.653	(0.983)	9519	0.08873	6.8(Q)
8 Fluorene	166	8.248	8.247	(1.060)	2988	0.03910	3.0(Q)
10 Phenanthrene	178	9.059	9.064	(1.001)	261705	2.27235	170
11 Anthracene	178	9.100	9.099	(1.006)	7651	0.06640	5.1
12 Carbazole	167	9.241	9.240	(1.021)	12305	0.11945	9.2

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.040	10.045	(1.110)	71210	0.59249	46
15 Pyrene	202	10.228	10.233	(0.899)	70009	0.54692	42
16 Benzo(a)anthracene	228	11.350	11.349	(0.998)	43833	0.38798	30
18 Chrysene	228	11.391	11.396	(1.002)	78076	0.66938	51
19 Benzo(b)fluoranthene	252	12.661	12.671	(0.957)	68752	0.61520	47
20 Benzo(k)fluoranthene	252	12.696	12.712	(0.960)	23367	0.19970	15(H)
21 Benzo(a)pyrene	252	13.113	13.124	(0.991)	39675	0.35875	28
23 Indeno(1,2,3-cd)pyrene	276	14.811	14.827	(1.119)	27535	0.23330	18(M)
24 Dibenzo(a,h)anthracene	278	14.834	14.863	(1.121)	13179	0.12091	9.3(H)
25 Benzo(g,h,i)perylene	276	15.263	15.280	(1.154)	38119	0.33876	26(M)

QC Flag Legend

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

Data File: 1DC28018.D

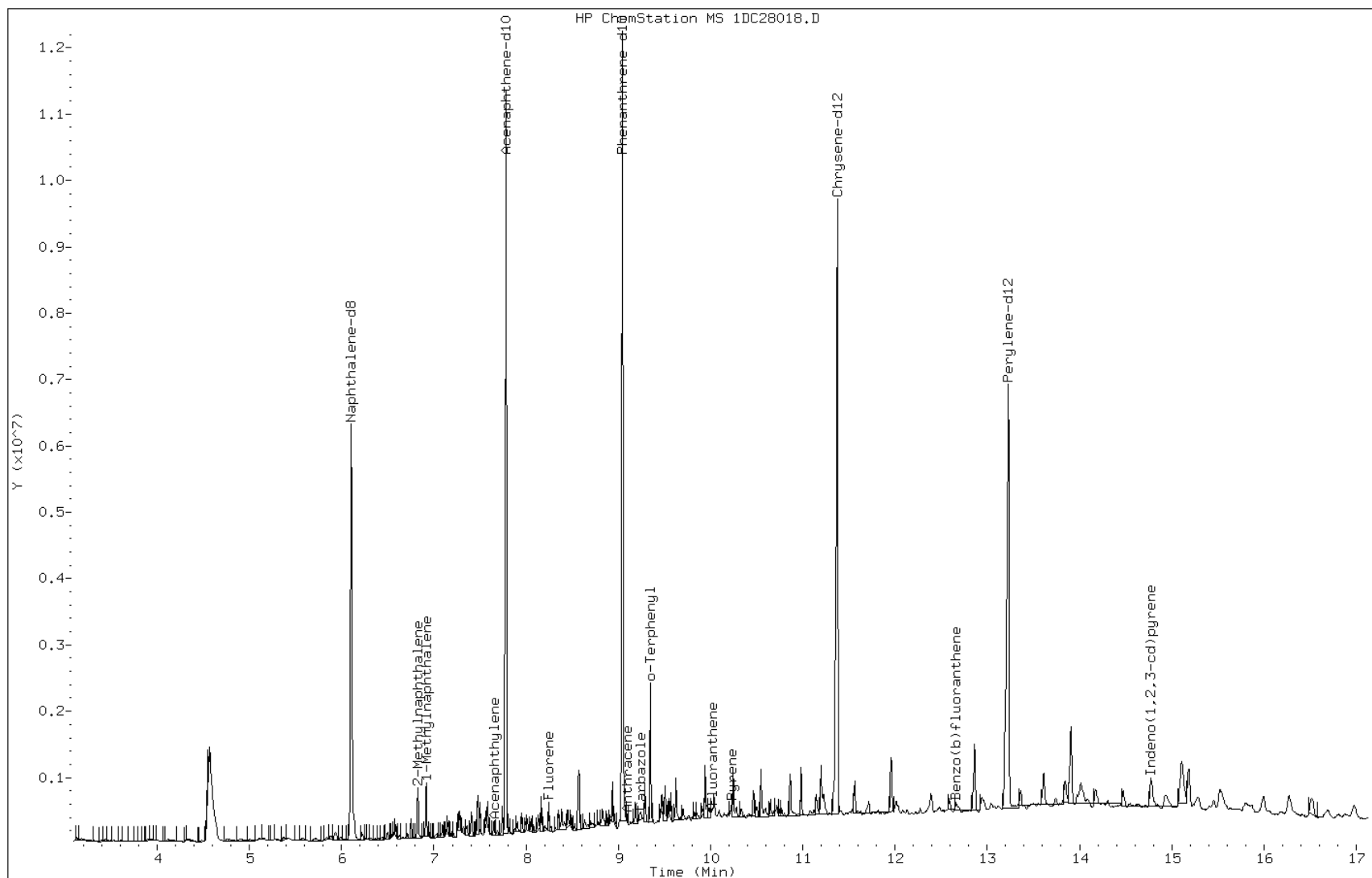
Date: 28-MAR-2013 18:20

Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

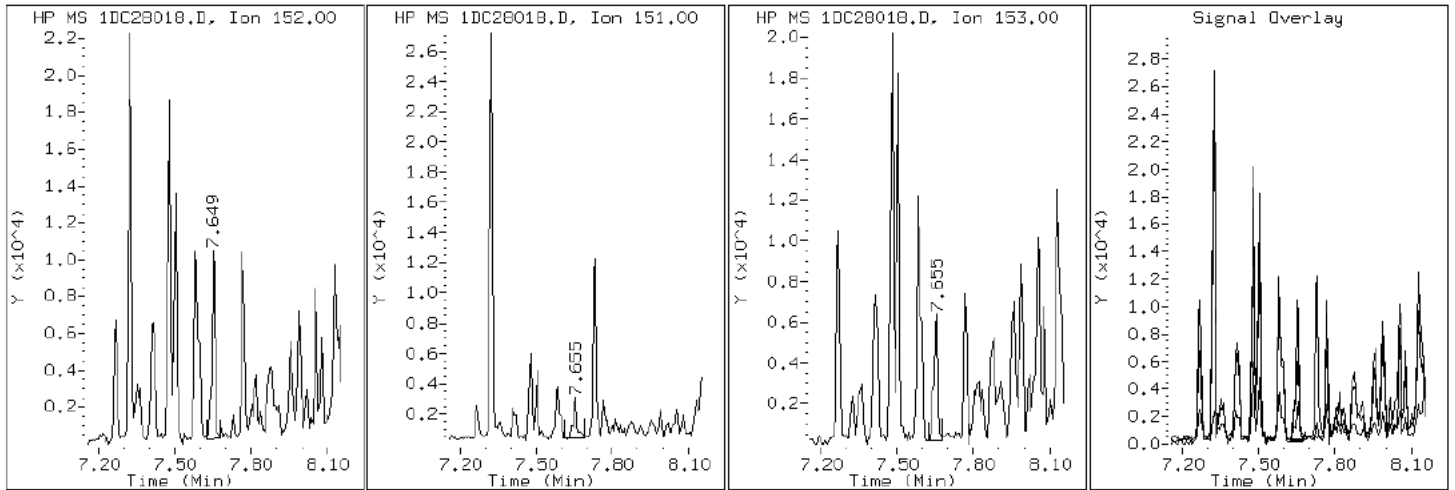
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

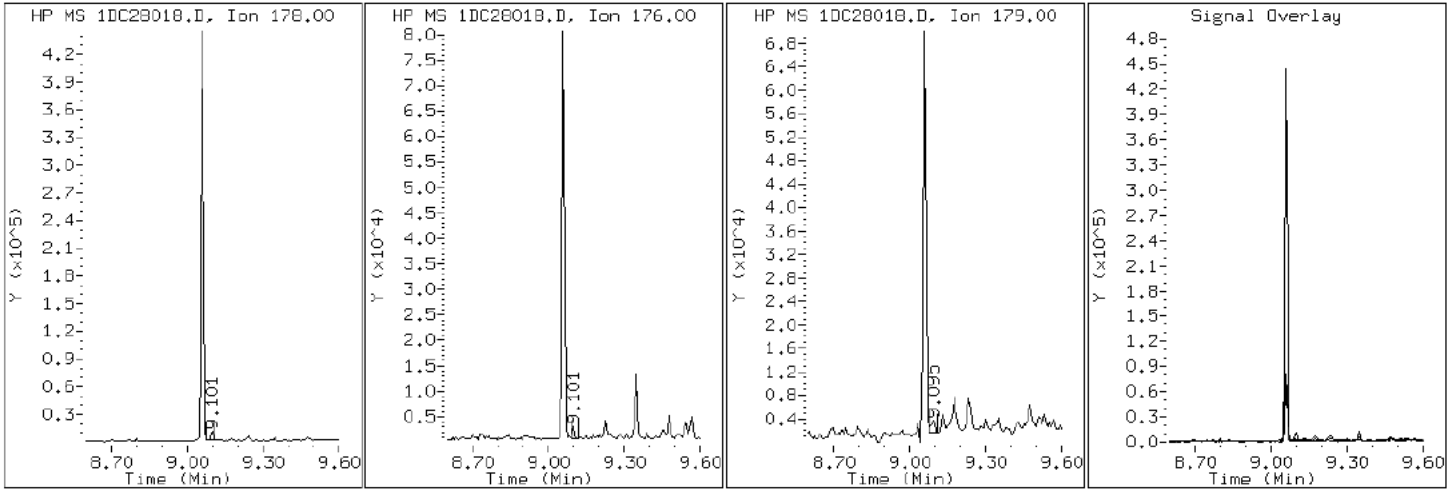
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

11 Anthracene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

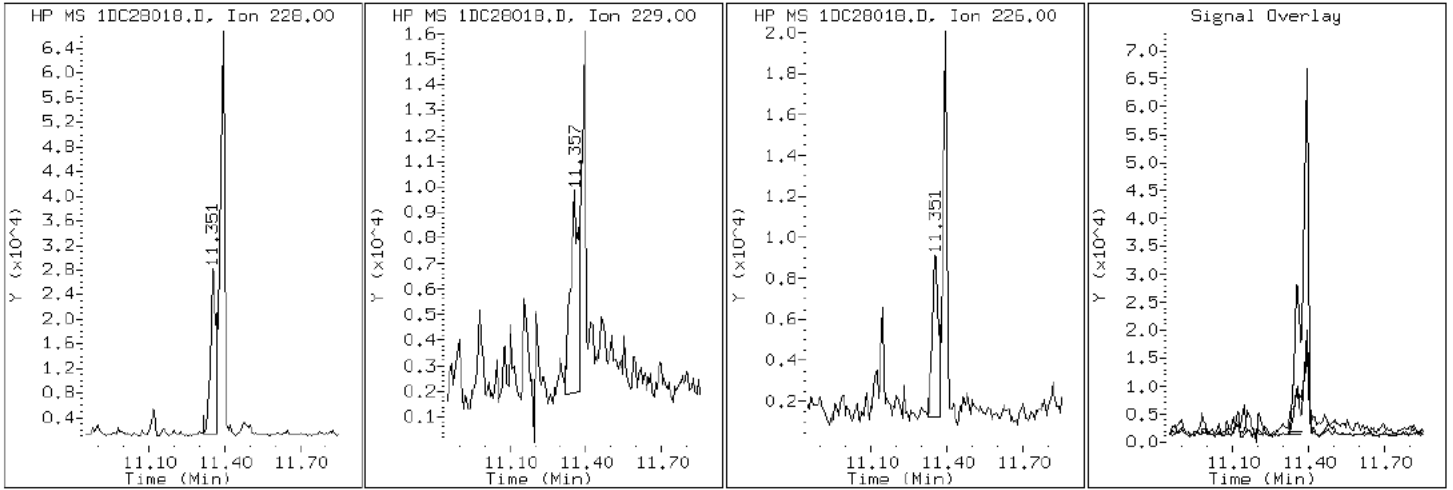
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

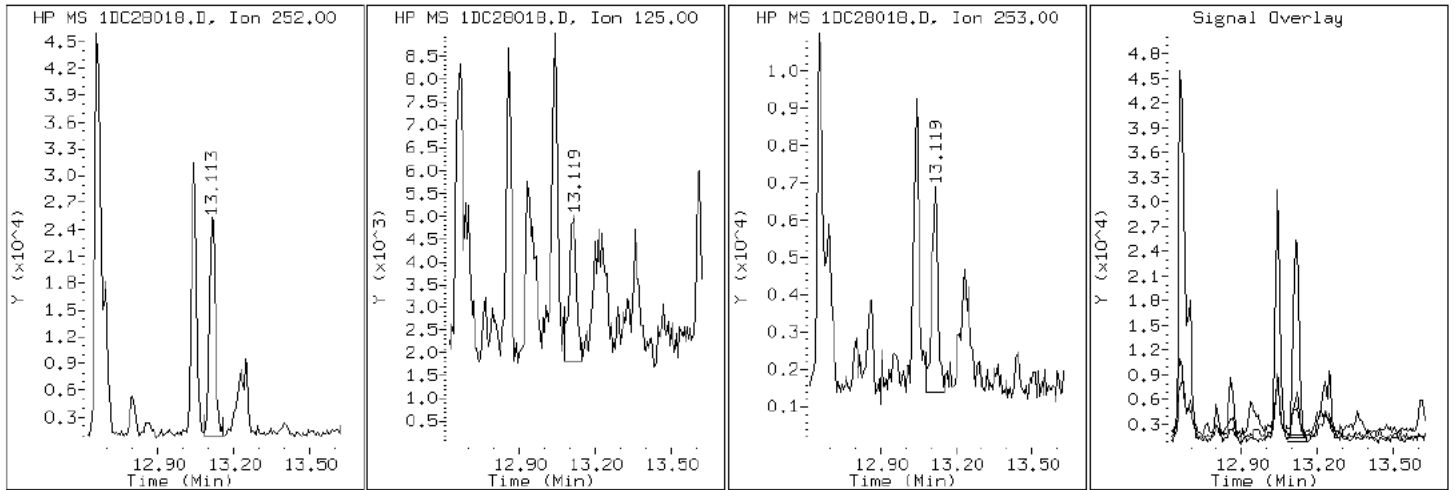
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

21 Benzo(a)pyrene





Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

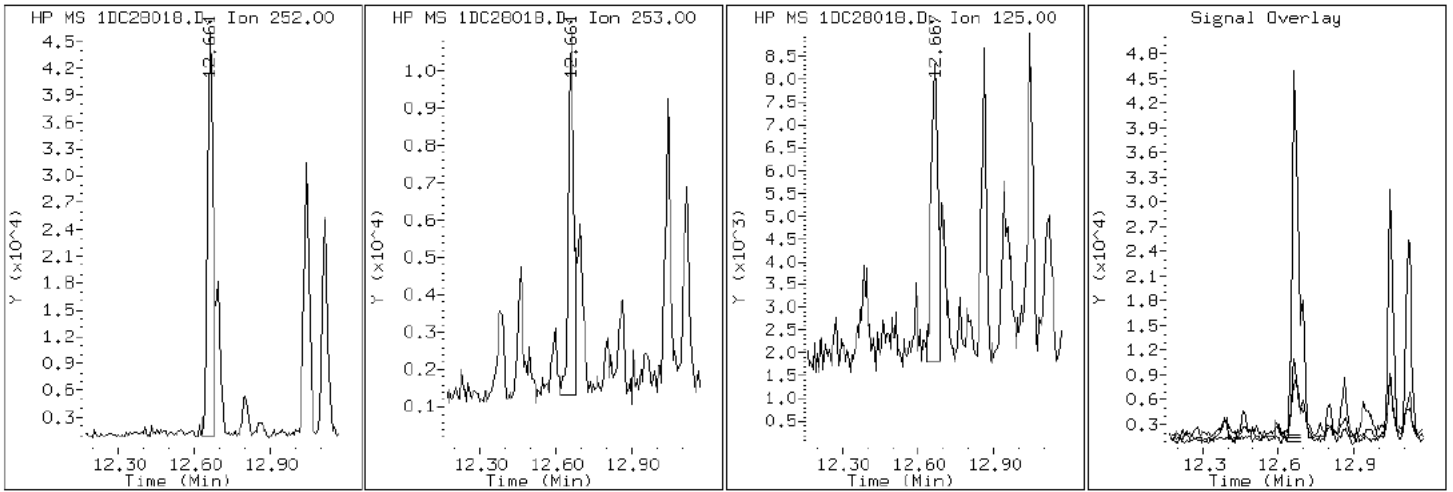
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

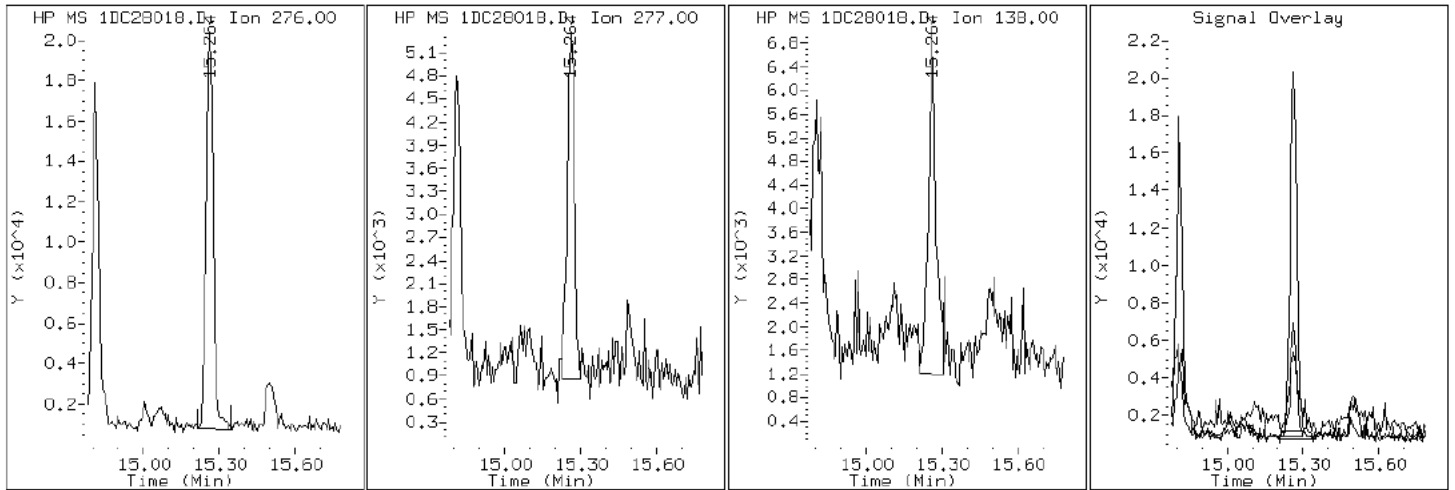
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

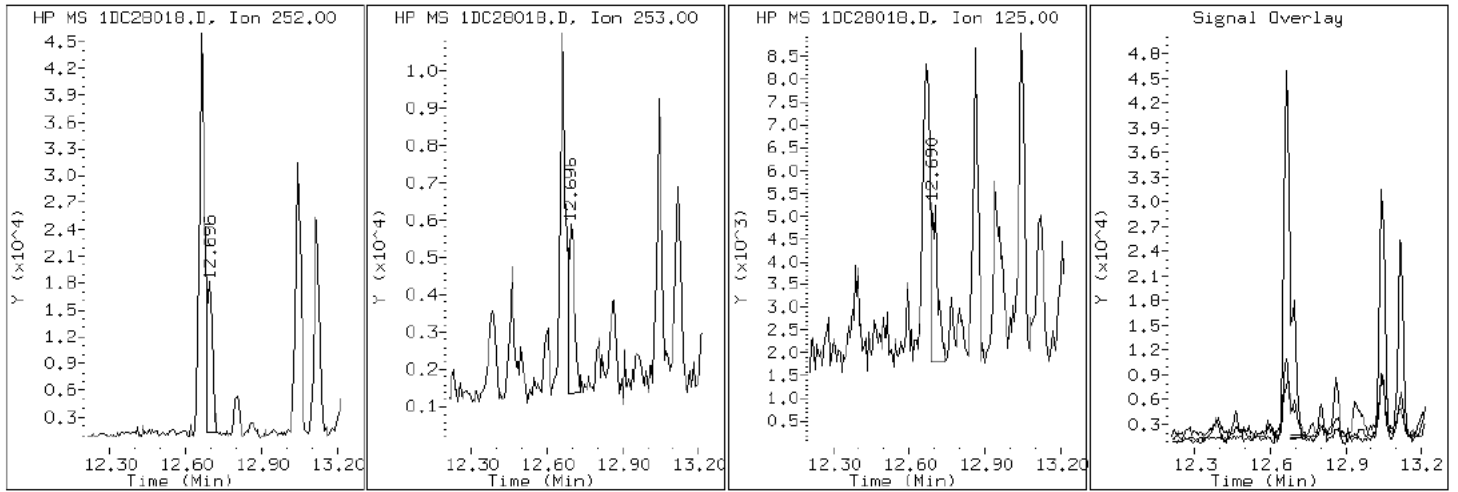
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

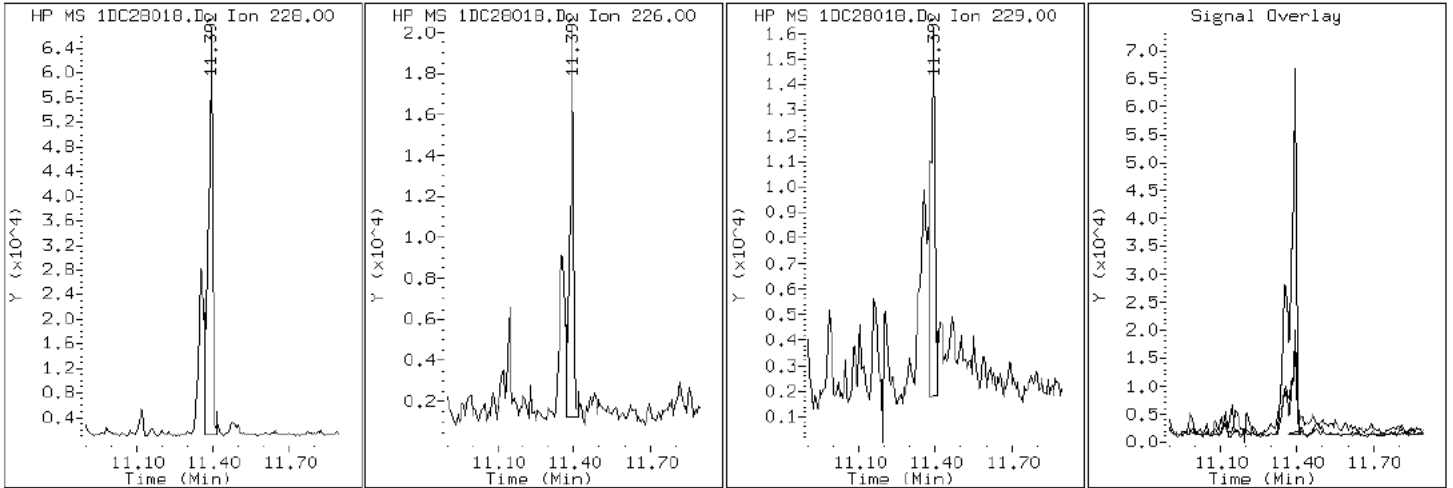
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

18 Chrysene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

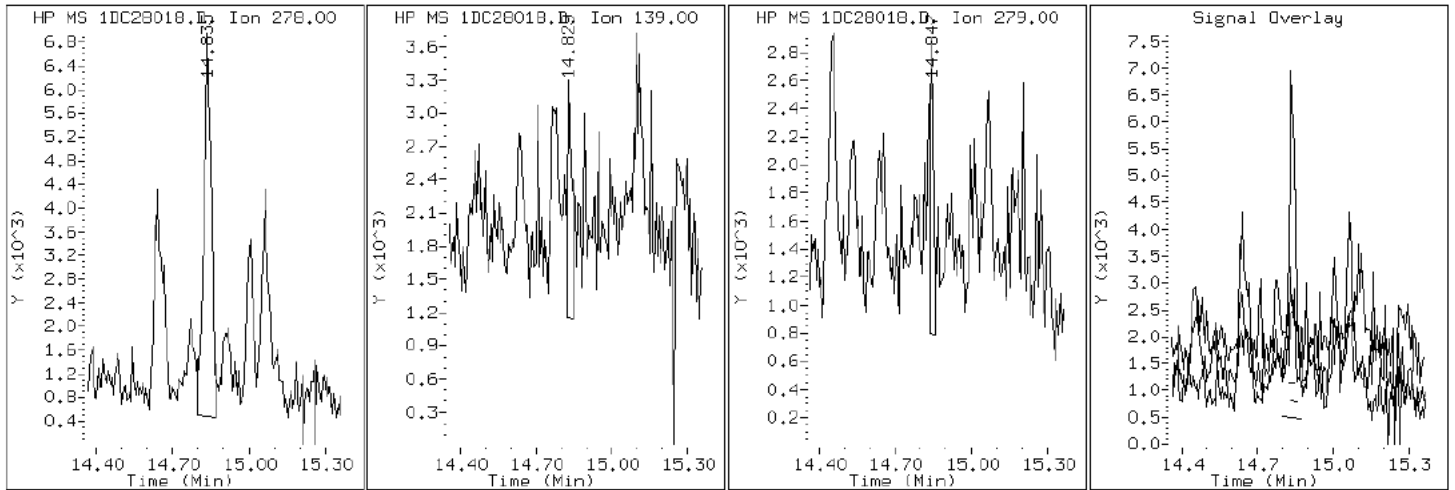
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

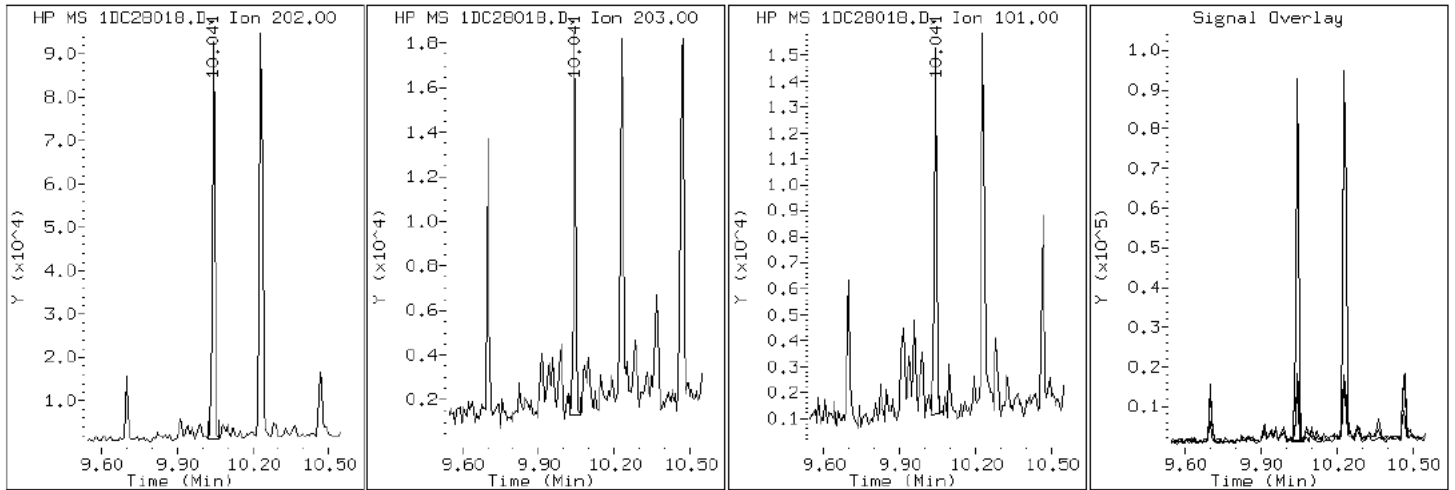
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

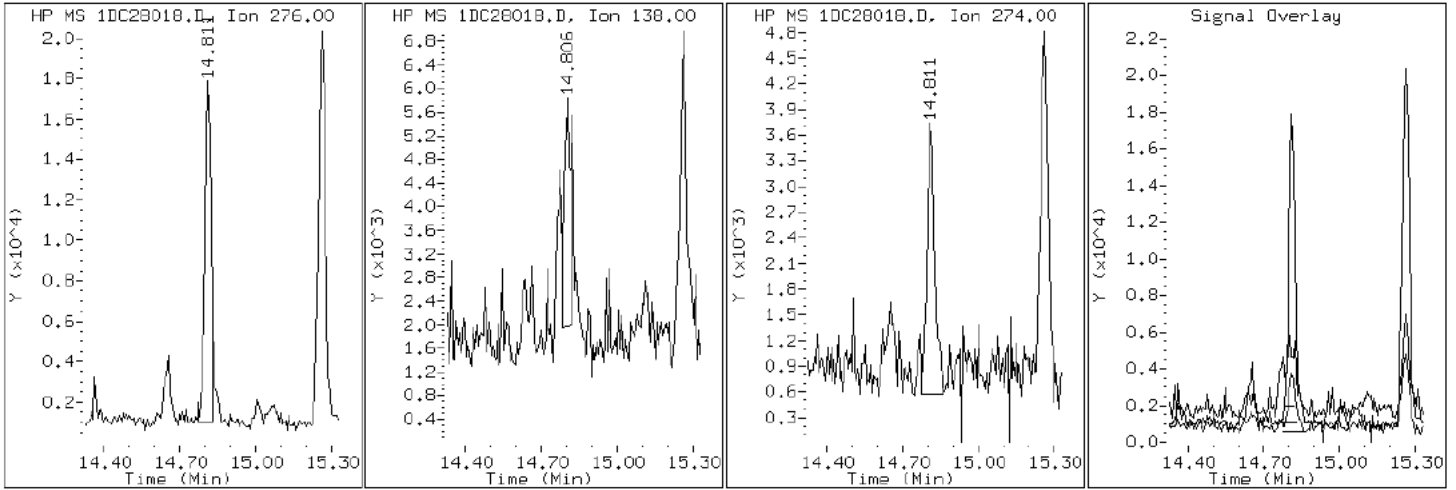
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

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



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

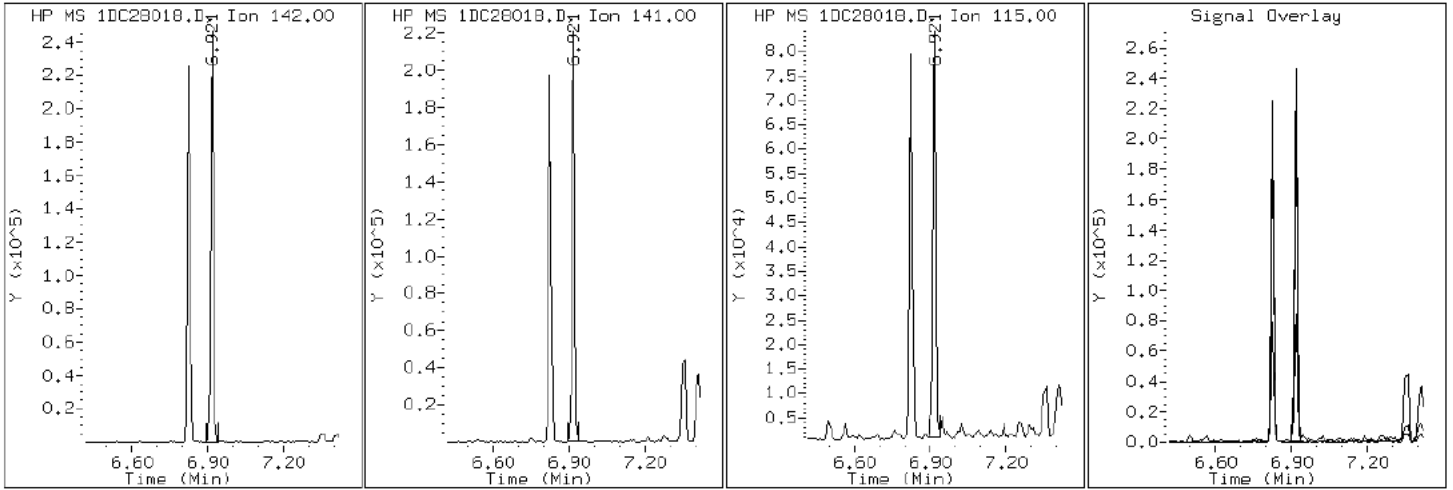
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

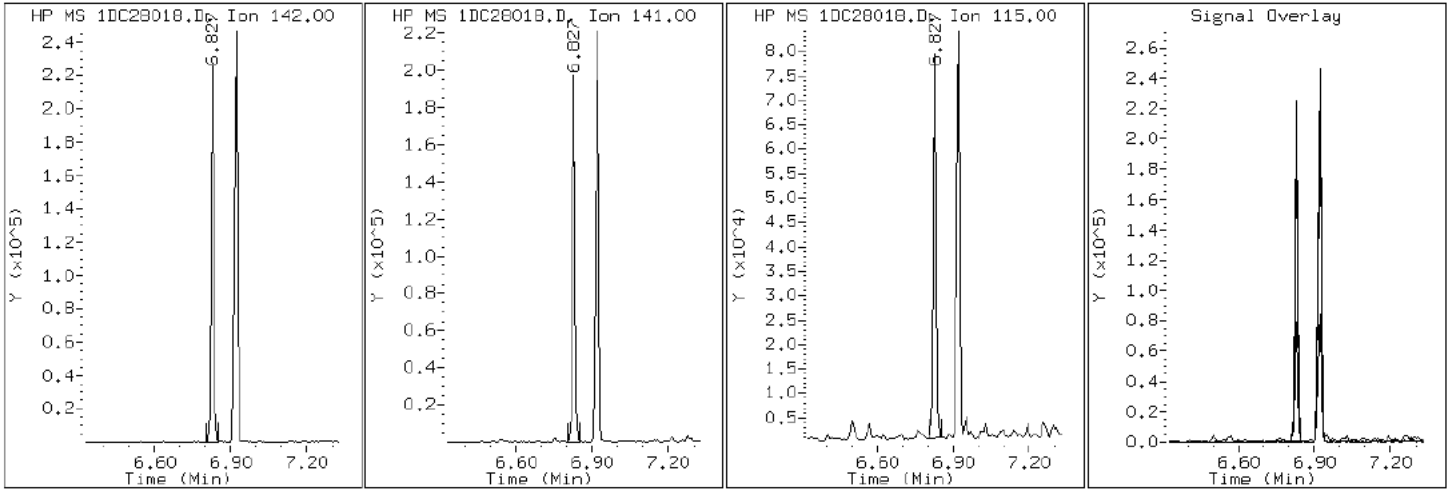
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

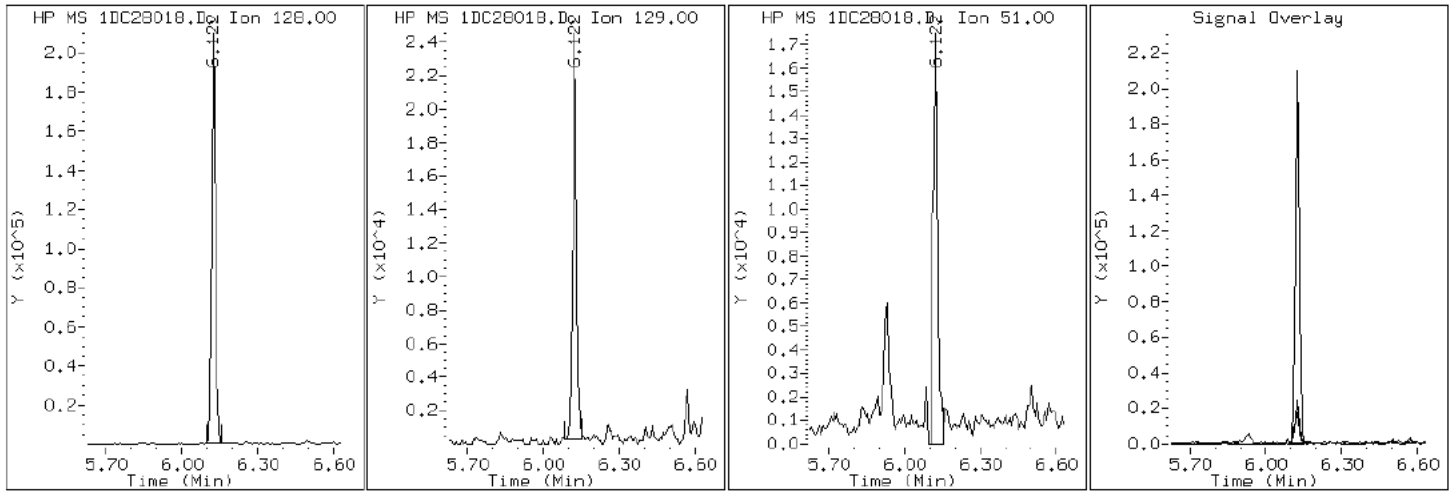
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

2 Naphthalene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

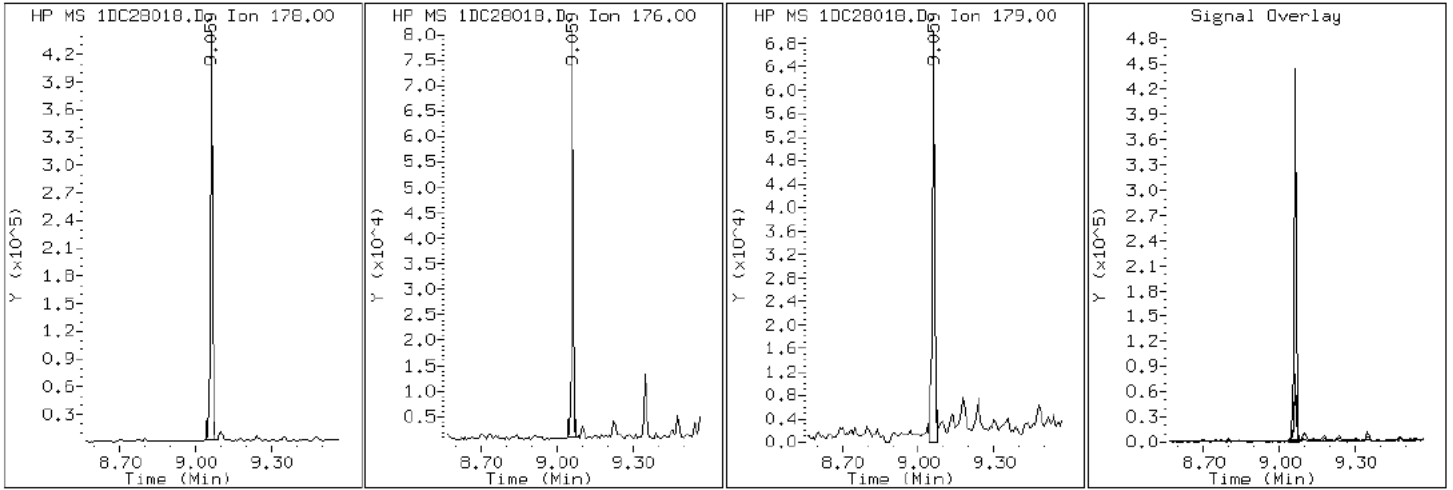
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28018.D

Date: 28-MAR-2013 18:20

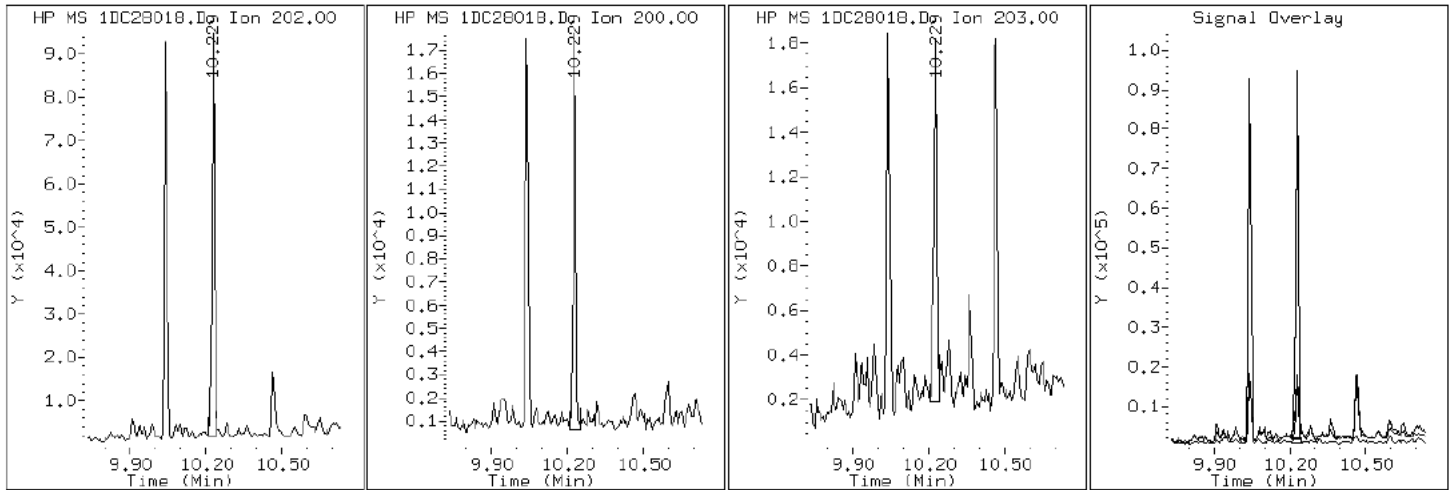
Client ID: FM0343A-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-6-A

Operator: SCC

15 Pyrene

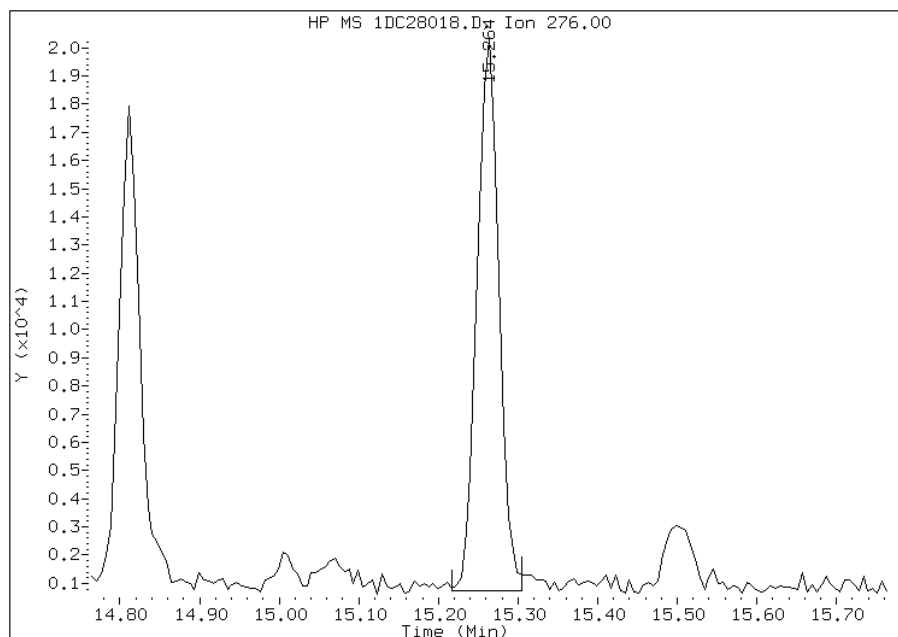


# Manual Integration Report

Data File: 1DC28018.D  
Inj. Date and Time: 28-MAR-2013 18:20  
Instrument ID: BSMSD.i  
Client ID: FM0343A-CS  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/02/2013

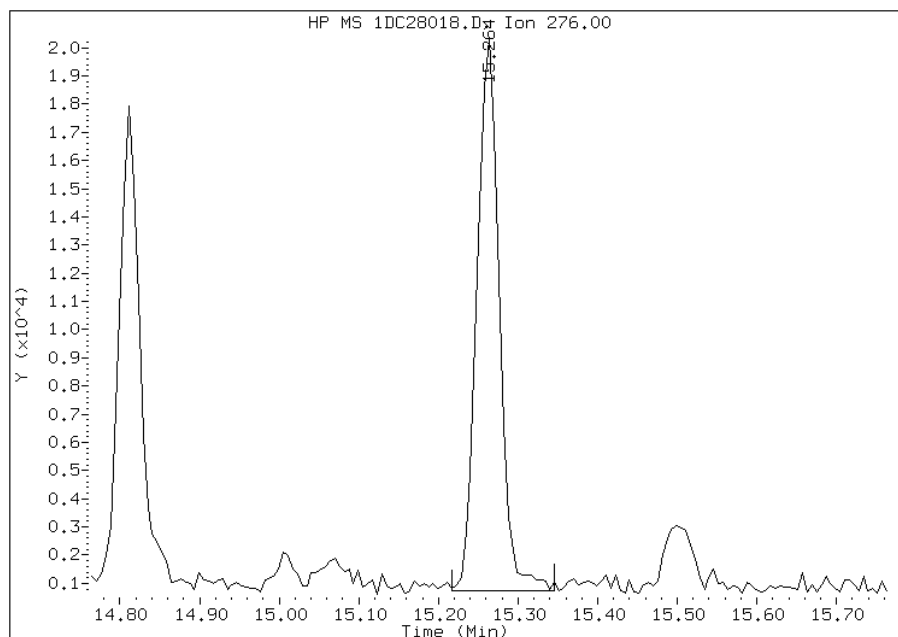
## Processing Integration Results

RT: 15.26  
Response: 37205  
Amount: 0  
Conc: 25



## Manual Integration Results

RT: 15.26  
Response: 38119  
Amount: 0  
Conc: 26



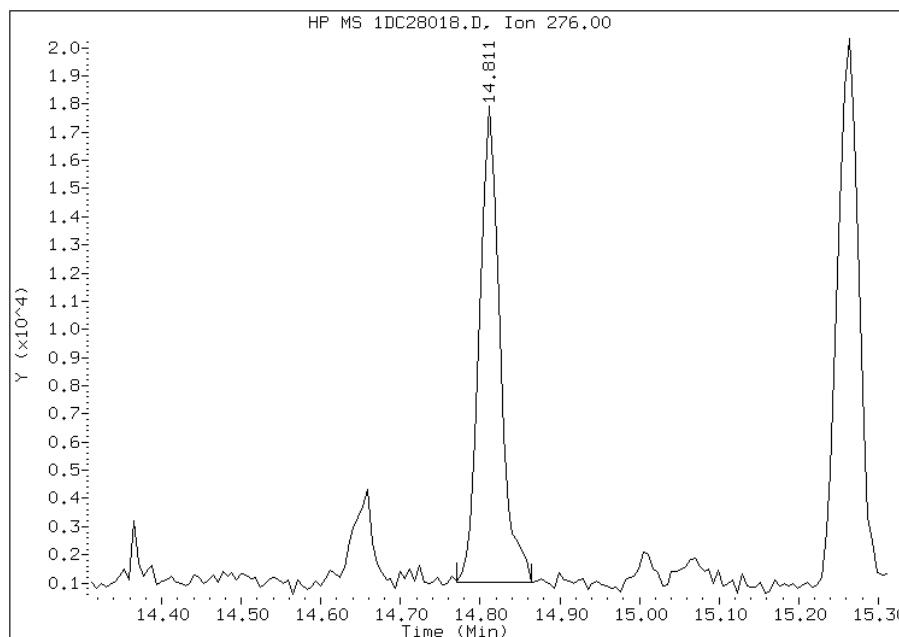
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:59  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DC28018.D  
Inj. Date and Time: 28-MAR-2013 18:20  
Instrument ID: BSMSD.i  
Client ID: FM0343A-CS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

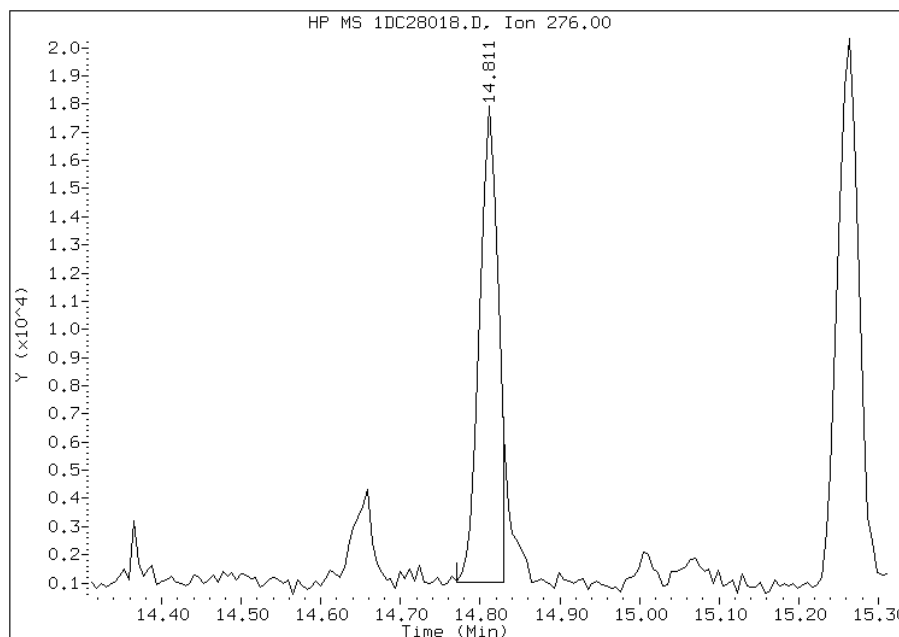
## Processing Integration Results

RT: 14.81  
Response: 30282  
Amount: 0  
Conc: 20



## Manual Integration Results

RT: 14.81  
Response: 27535  
Amount: 0  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:59  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0343A-CSD Lab Sample ID: 680-88632-7  
 Matrix: Solid Lab File ID: 1DC28019.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 10:30  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.08(g) Date Analyzed: 03/28/2013 18:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 12.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	46	U	46	5.7
120-12-7	Anthracene	5.4	J	9.6	4.8
56-55-3	Benzo[a]anthracene	29		9.1	4.4
50-32-8	Benzo[a]pyrene	29		12	5.9
205-99-2	Benzo[b]fluoranthene	54		14	7.0
191-24-2	Benzo[g,h,i]perylene	24		23	5.0
207-08-9	Benzo[k]fluoranthene	18		9.1	4.1
218-01-9	Chrysene	41		10	5.1
53-70-3	Dibenz(a,h)anthracene	7.6	J	23	4.7
206-44-0	Fluoranthene	41		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	21	J	23	8.1
90-12-0	1-Methylnaphthalene	15	J	46	5.0
91-57-6	2-Methylnaphthalene	21	J	46	8.1
91-20-3	Naphthalene	21	J	46	5.0
85-01-8	Phenanthrene	28		9.1	4.4
129-00-0	Pyrene	33		23	4.2

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28019.D  
 Lab Smp Id: 680-88632-A-7-A Client Smp ID: FM0343A-CSD  
 Inj Date : 28-MAR-2013 18:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-7-A  
 Misc Info : 680-88632-A-7-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 19  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	12.761	% 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	6.108	6.102	(1.000)	4016518	40.0000	
* 6 Acenaphthene-d10	164	7.782	7.777	(1.000)	2604044	40.0000	
* 9 Phenanthrene-d10	188	9.045	9.040	(1.000)	4346506	40.0000	
\$ 13 o-Terphenyl	230	9.351	9.351	(1.034)	380882	5.66667	430
* 17 Chrysene-d12	240	11.378	11.373	(1.000)	4447443	40.0000	
* 22 Perylene-d12	264	13.235	13.223	(1.000)	4660357	40.0000	
2 Naphthalene	128	6.125	6.126	(1.003)	30328	0.28227	21
3 2-Methylnaphthalene	142	6.824	6.825	(1.117)	19278	0.28166	21
4 1-Methylnaphthalene	142	6.918	6.919	(1.133)	12857	0.20060	15
5 Acenaphthylene	152	7.653	7.653	(0.983)	6018	0.05242	4.0
10 Phenanthrene	178	9.063	9.064	(1.002)	46193	0.37439	28
11 Anthracene	178	9.098	9.099	(1.006)	8743	0.07082	5.4
12 Carbazole	167	9.239	9.240	(1.021)	5796	0.05252	4.0
14 Fluoranthene	202	10.044	10.045	(1.110)	70198	0.54519	41



Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.232	10.233	(0.899)	59547	0.43164	33
16 Benzo(a)anthracene	228	11.354	11.349	(0.998)	45929	0.37721	29
18 Chrysene	228	11.395	11.396	(1.002)	68584	0.54559	41
19 Benzo(b)fluoranthene	252	12.665	12.671	(0.957)	84691	0.70601	54
20 Benzo(k)fluoranthene	252	12.700	12.712	(0.960)	29023	0.23108	18
21 Benzo(a)pyrene	252	13.117	13.124	(0.991)	45397	0.38243	29
23 Indeno(1,2,3-cd)pyrene	276	14.815	14.827	(1.119)	34998	0.27627	21(M)
24 Dibenzo(a,h)anthracene	278	14.839	14.863	(1.121)	11693	0.09995	7.6
25 Benzo(g,h,i)perylene	276	15.267	15.280	(1.154)	37885	0.31366	24

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC28019.D

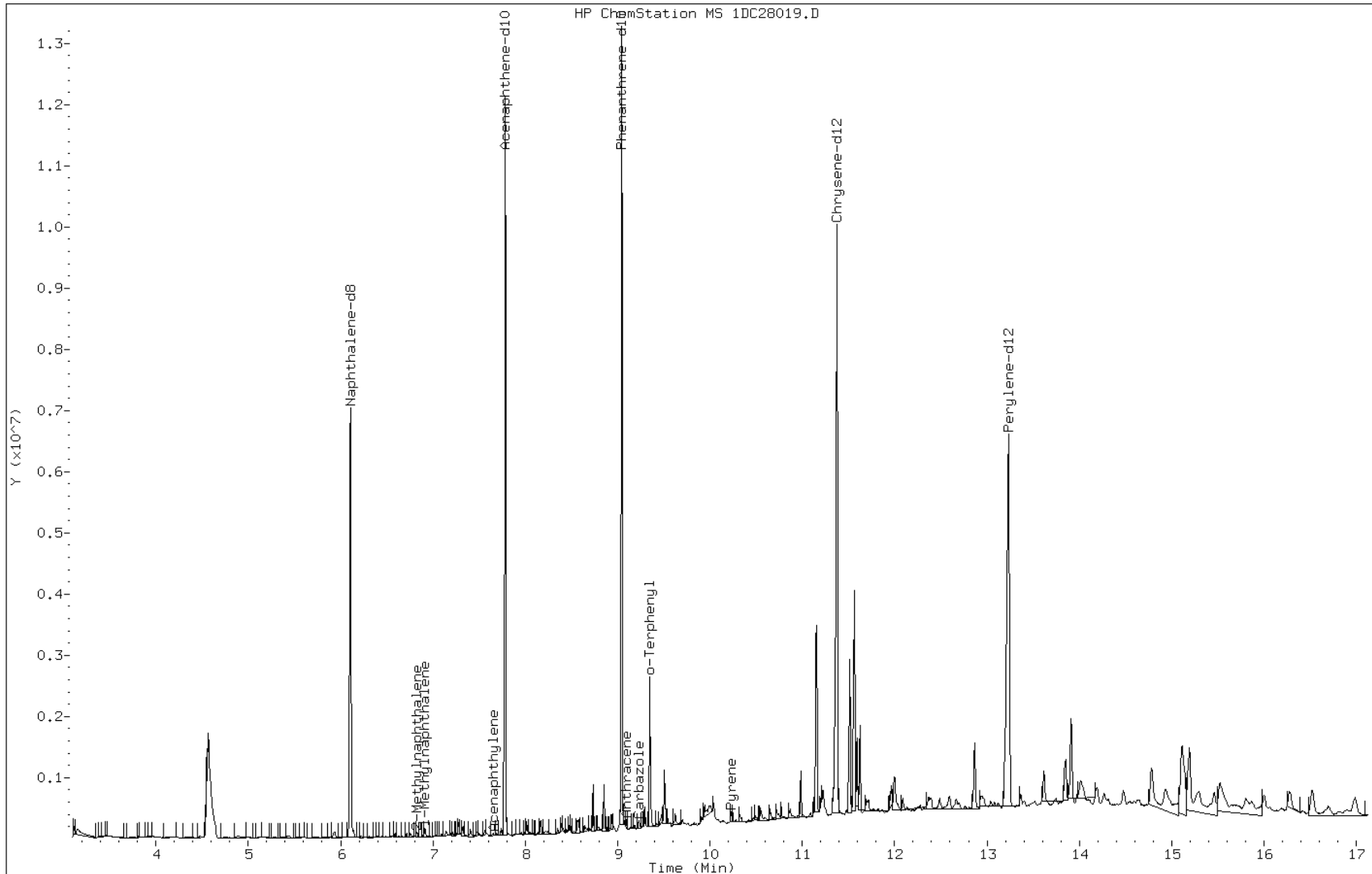
Date: 28-MAR-2013 18:42

Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

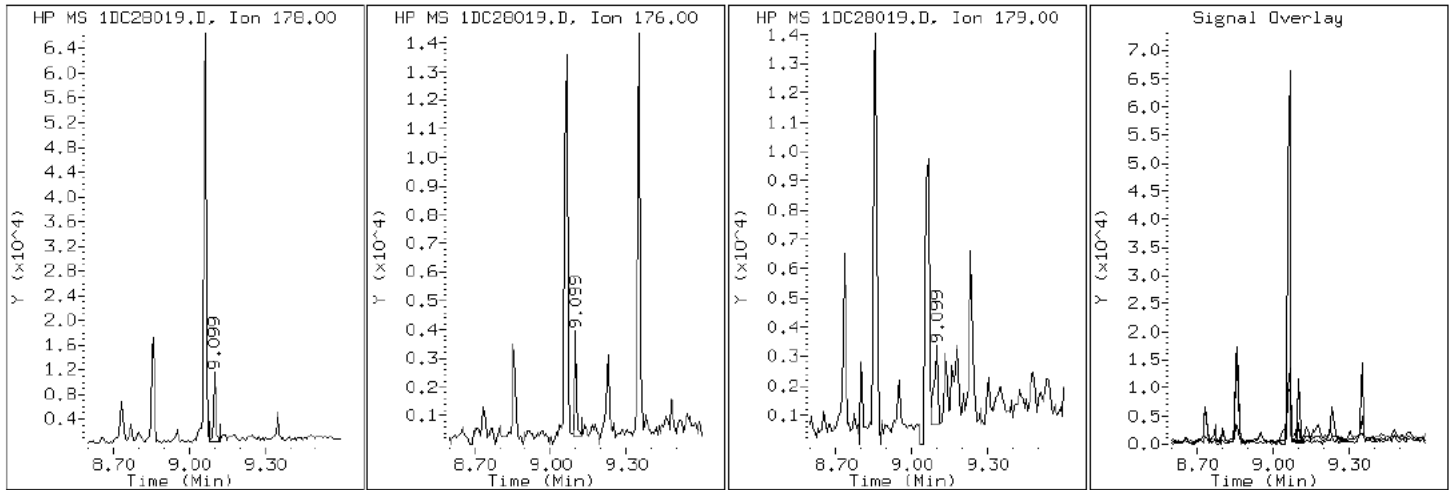
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

11 Anthracene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

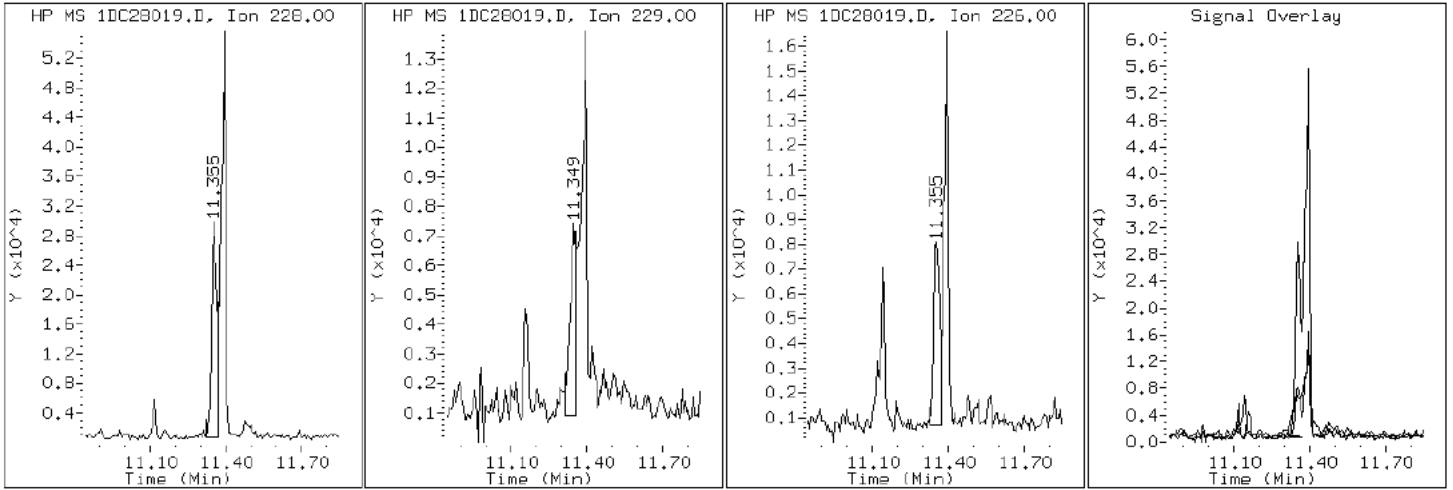
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

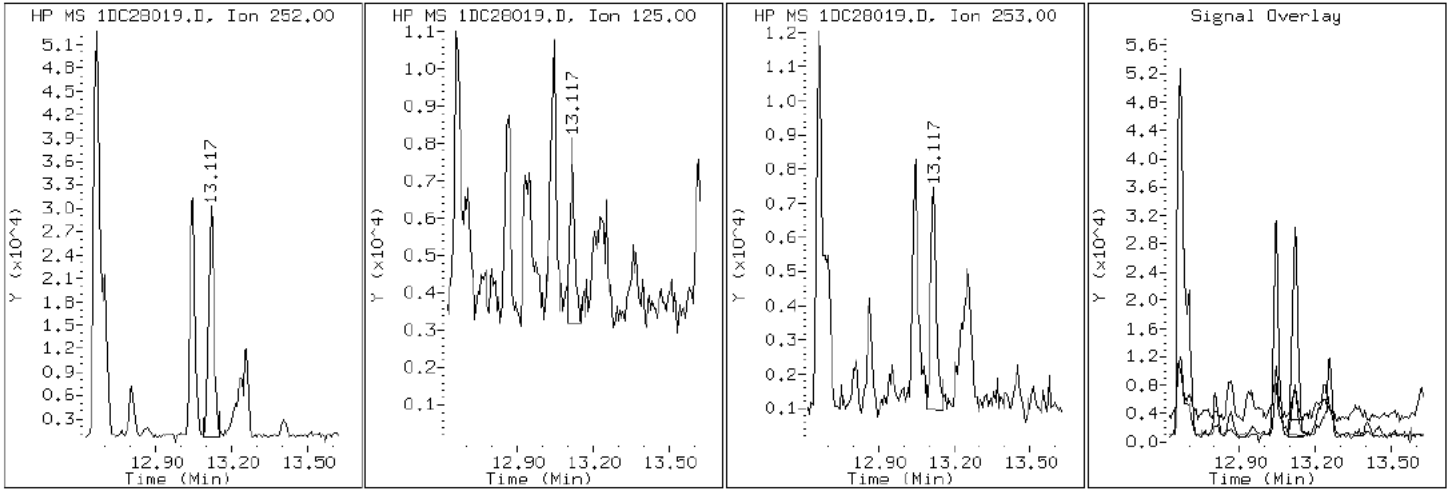
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

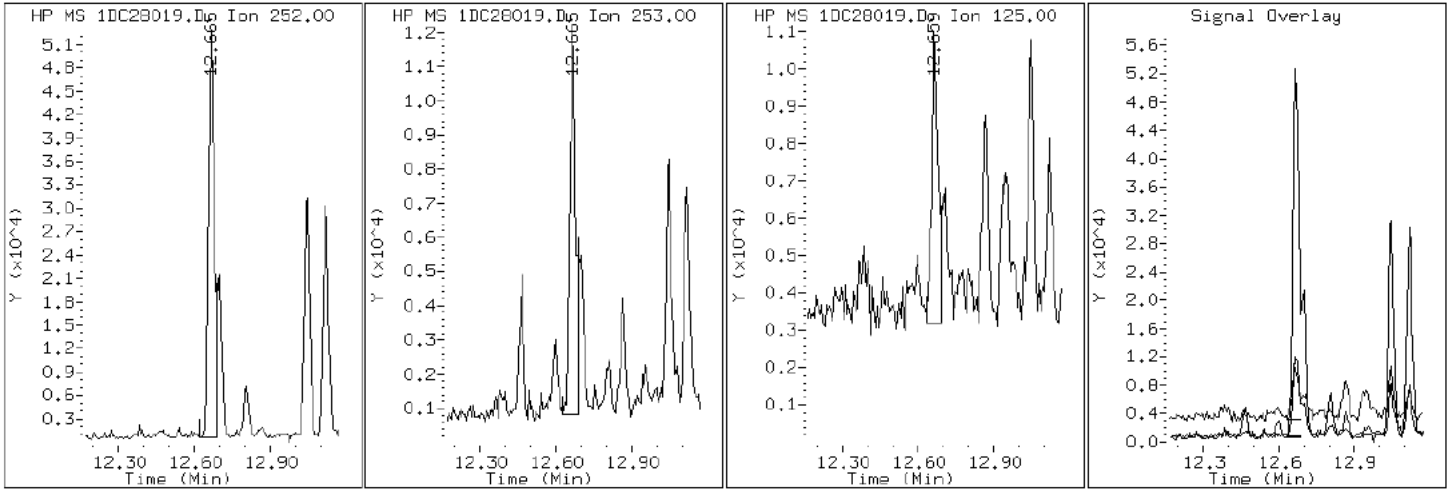
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

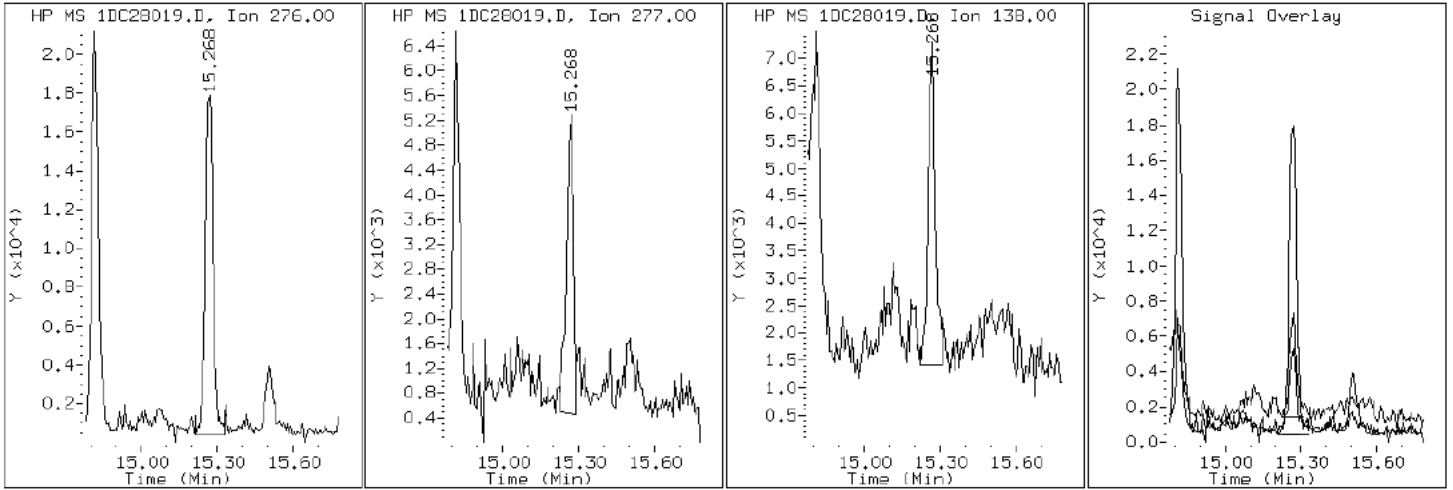
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

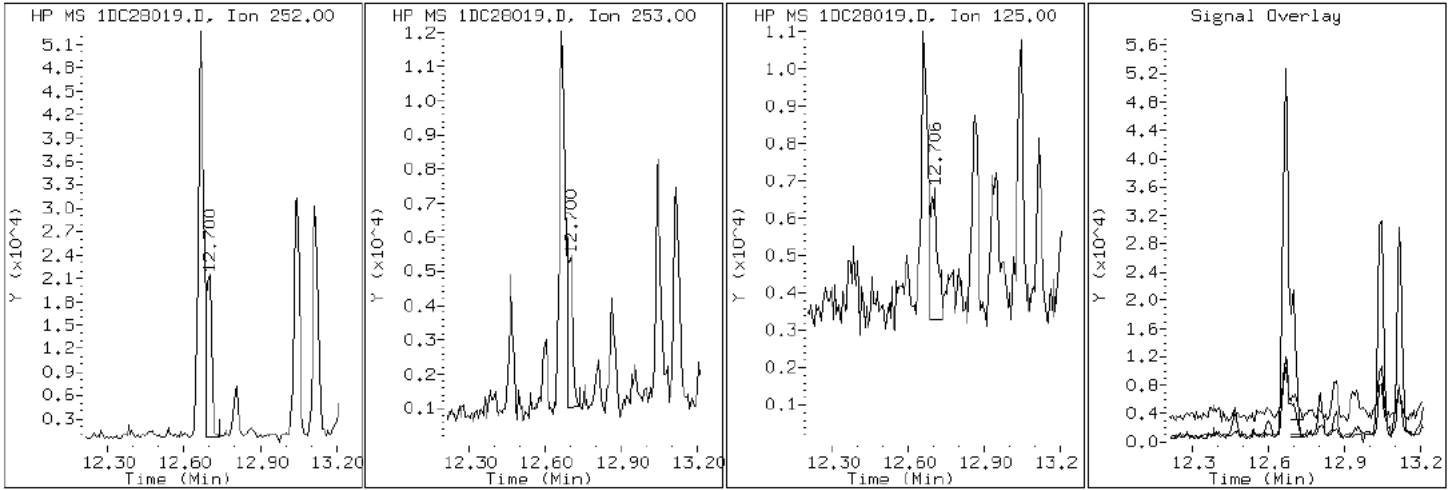
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

20 Benzo(k)fluoranthene





Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

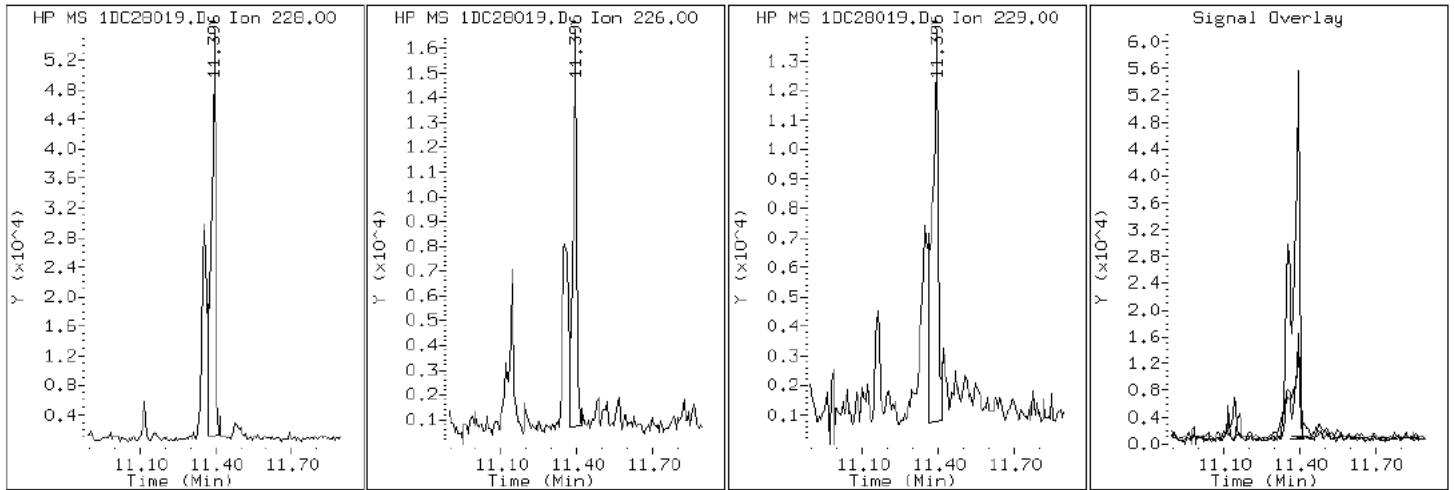
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

18 Chrysene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

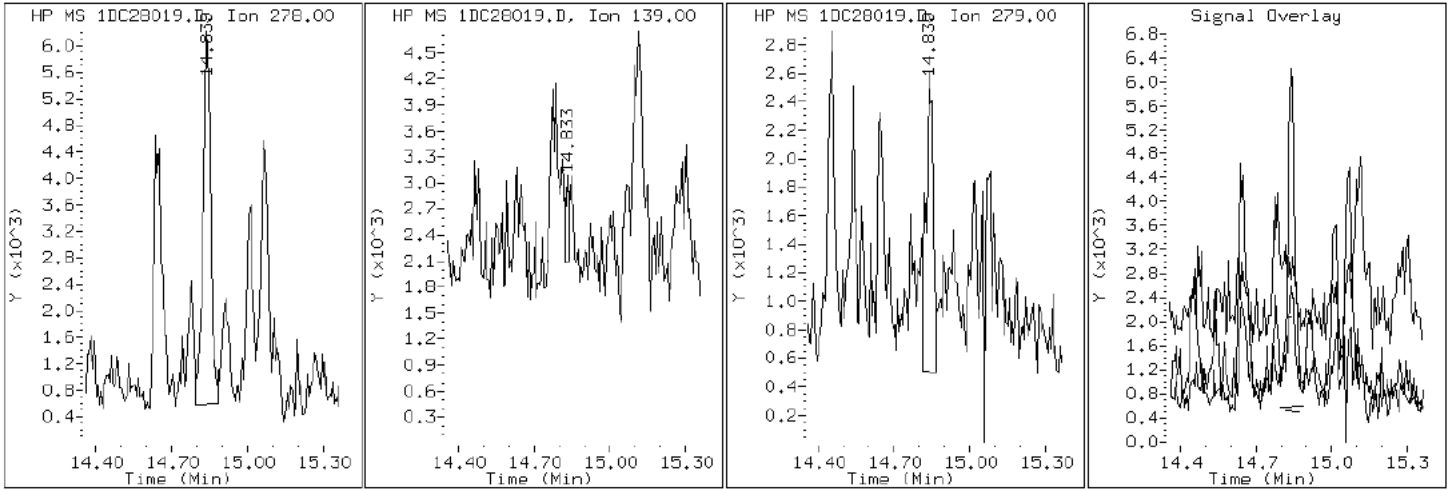
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

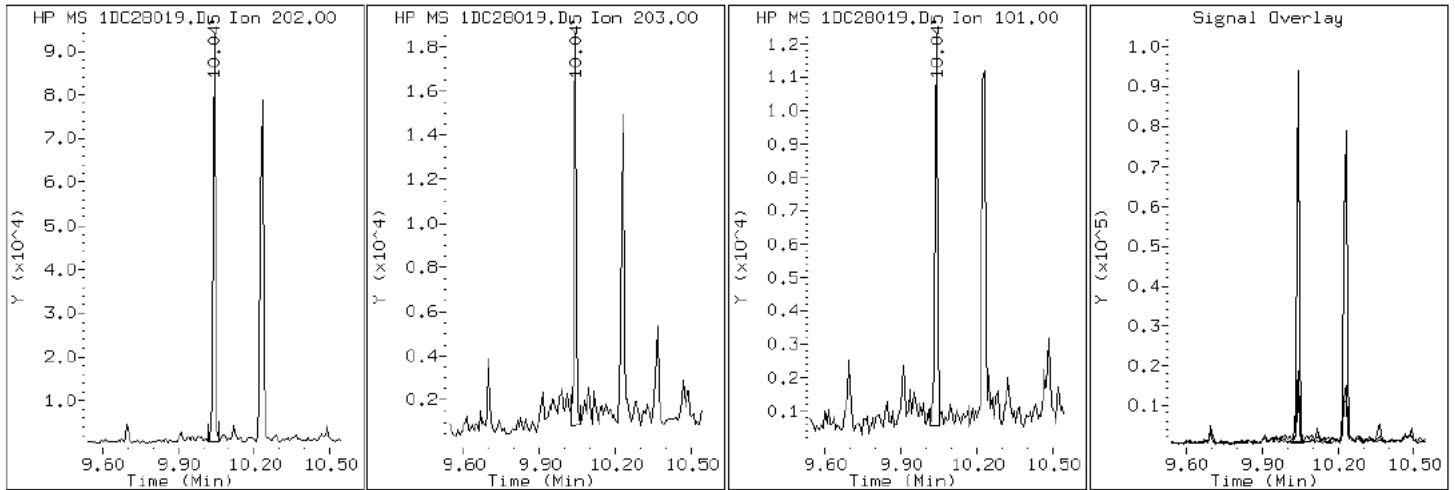
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

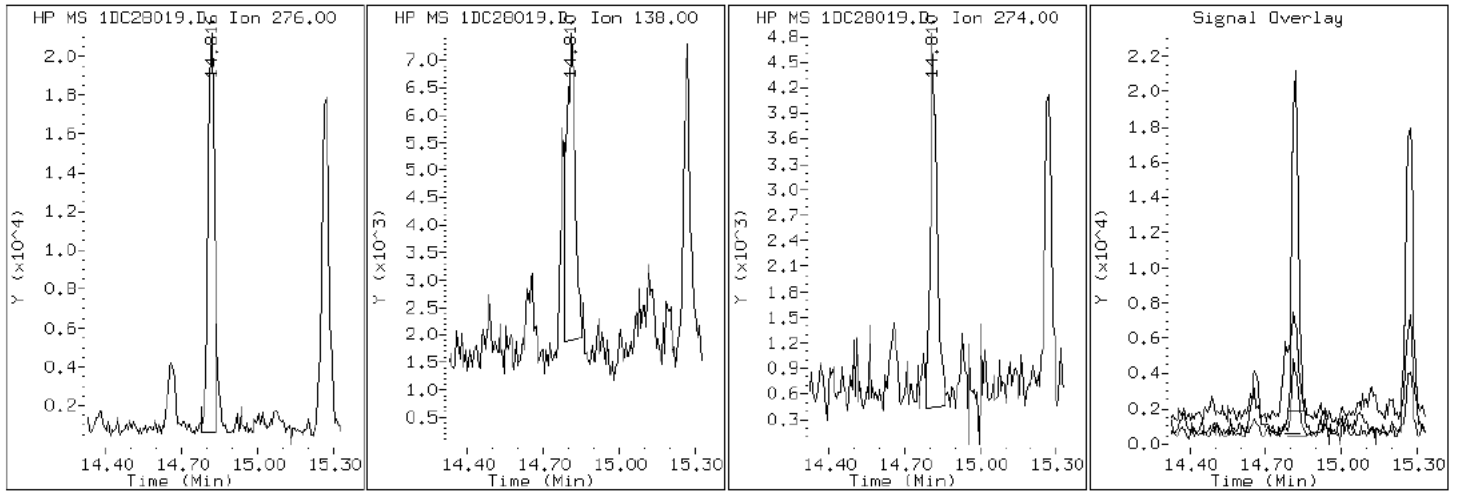
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

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



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

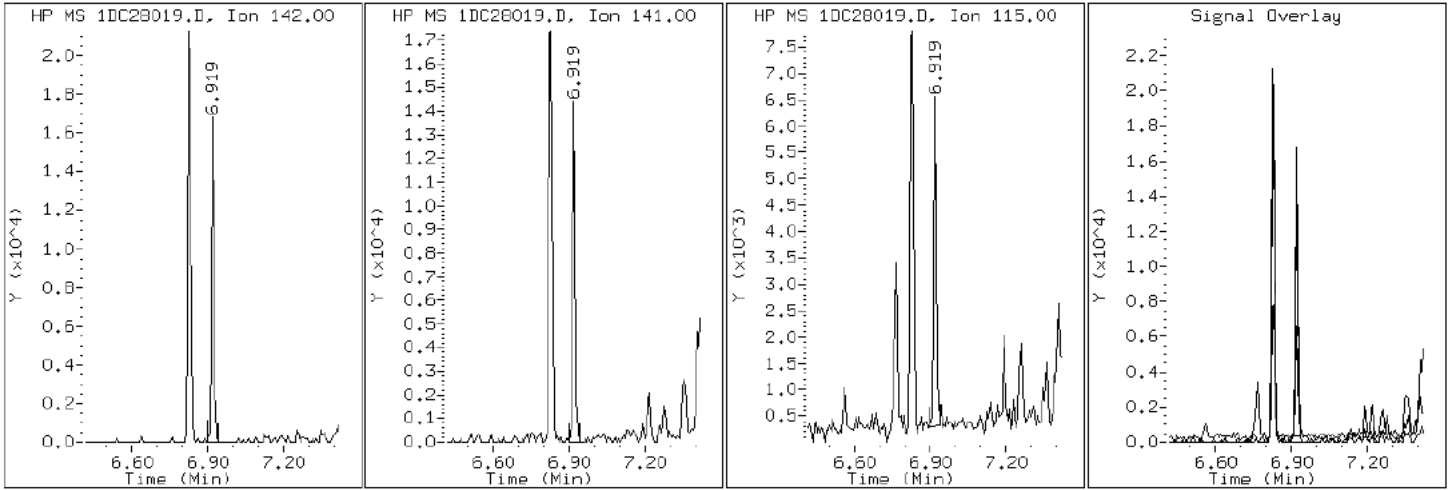
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

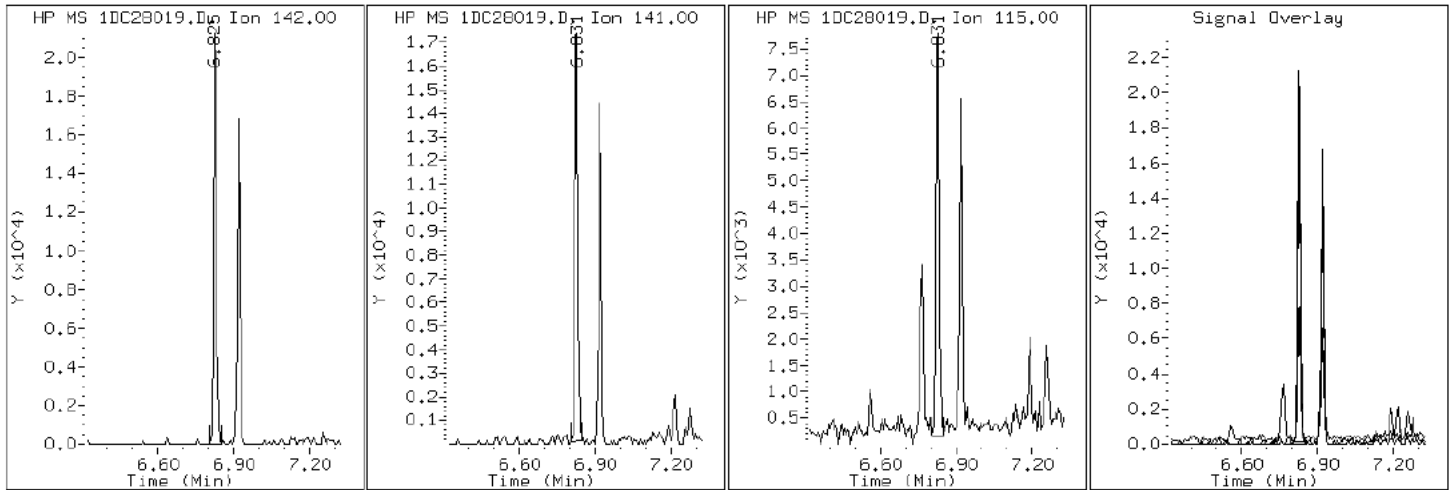
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

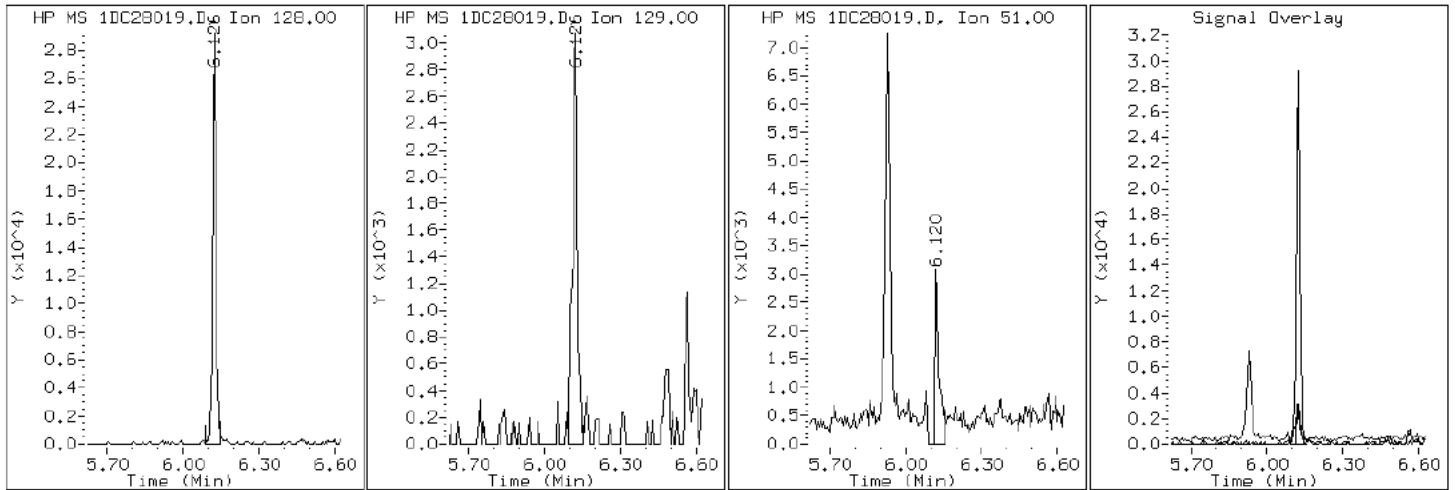
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

2 Naphthalene



Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

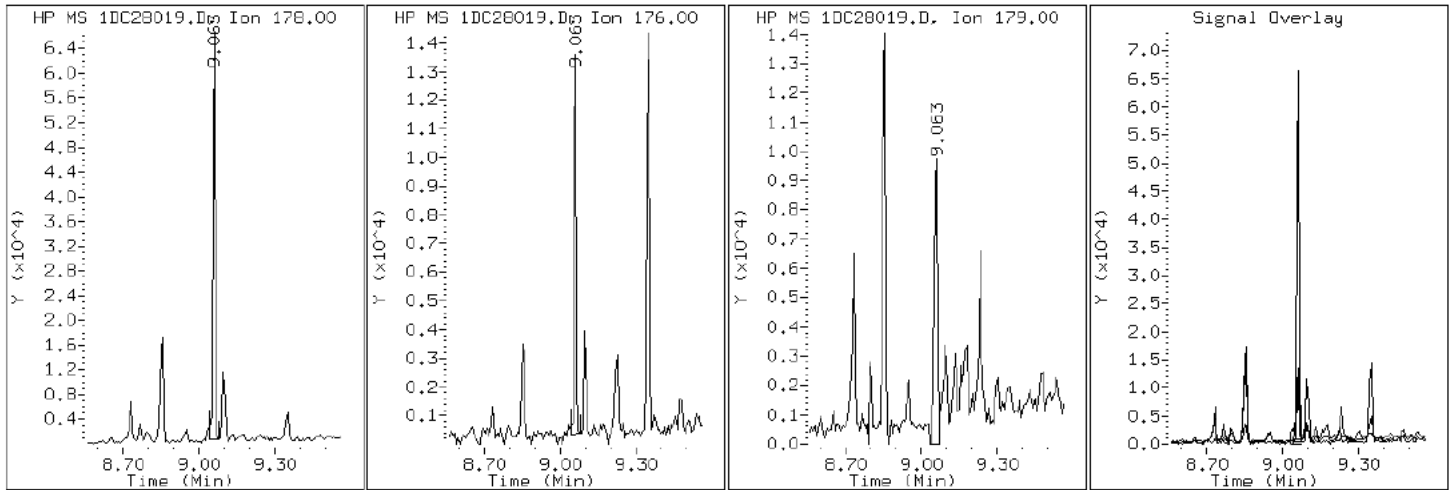
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

10 Phenanthrene





Data File: 1DC28019.D

Date: 28-MAR-2013 18:42

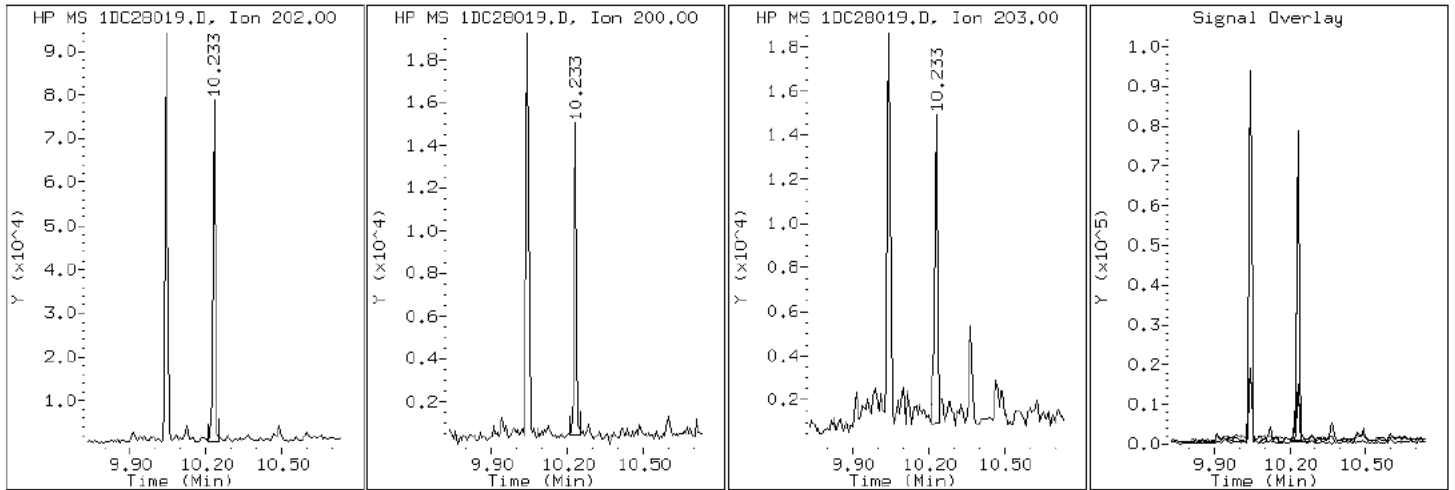
Client ID: FM0343A-CSD

Instrument: BSMSD.i

Sample Info: 680-88632-A-7-A

Operator: SCC

15 Pyrene

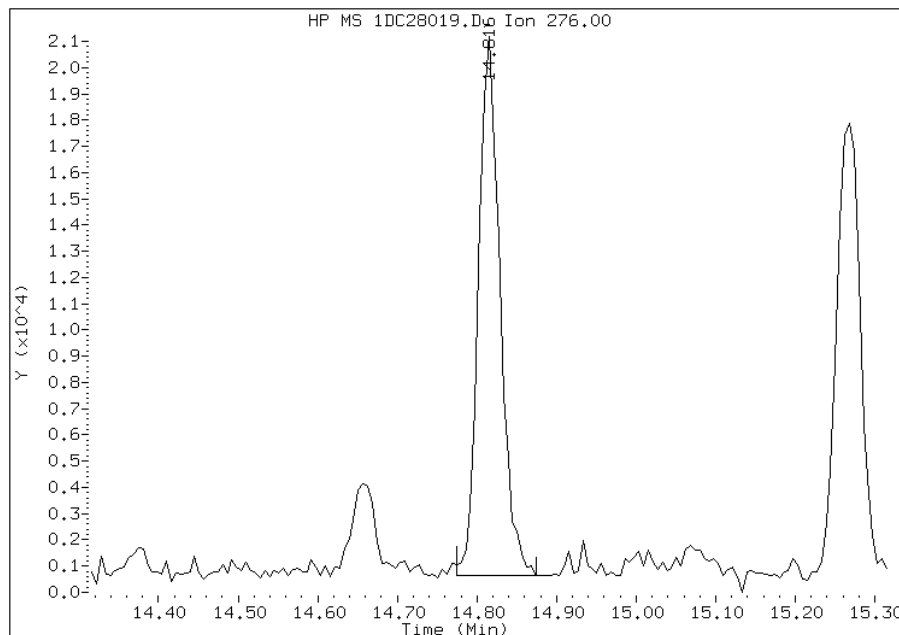


# Manual Integration Report

Data File: 1DC28019.D  
Inj. Date and Time: 28-MAR-2013 18:42  
Instrument ID: BSMSD.i  
Client ID: FM0343A-CSD  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

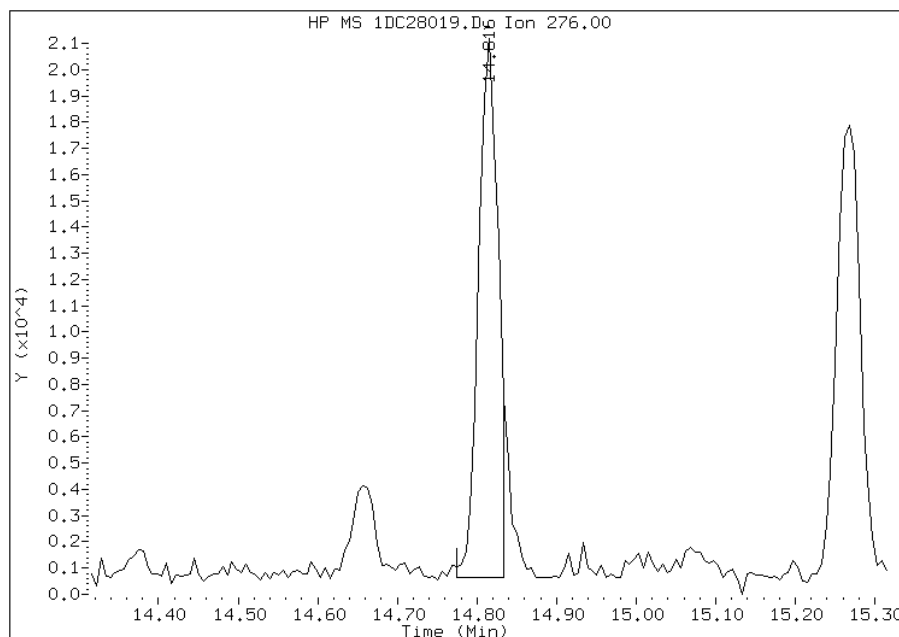
## Processing Integration Results

RT: 14.82  
Response: 38393  
Amount: 0  
Conc: 23



## Manual Integration Results

RT: 14.82  
Response: 34998  
Amount: 0  
Conc: 21



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:00  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0343B-CS Lab Sample ID: 680-88632-8  
 Matrix: Solid Lab File ID: 1DC28020.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 10:50  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.78(g) Date Analyzed: 03/28/2013 19:05  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	34	J	200	26
120-12-7	Anthracene	38	J	43	21
56-55-3	Benzo[a]anthracene	77		41	20
50-32-8	Benzo[a]pyrene	71		53	27
205-99-2	Benzo[b]fluoranthene	160		62	31
191-24-2	Benzo[g,h,i]perylene	64	J	100	22
207-08-9	Benzo[k]fluoranthene	50		41	18
218-01-9	Chrysene	150		46	23
53-70-3	Dibenz(a,h)anthracene	24	J	100	21
206-44-0	Fluoranthene	120		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	57	J	100	36
90-12-0	1-Methylnaphthalene	72	J	200	22
91-57-6	2-Methylnaphthalene	74	J	200	36
91-20-3	Naphthalene	82	J	200	22
85-01-8	Phenanthrene	100		41	20
129-00-0	Pyrene	100		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28020.D  
 Lab Smp Id: 680-88632-A-8-A Client Smp ID: FM0343B-CS  
 Inj Date : 28-MAR-2013 19:05  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-8-A  
 Misc Info : 680-88632-A-8-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 20  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.780	Weight Extracted
M	20.464	% 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	6.106	6.102	(1.000)	3758897	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2412476	40.0000	
* 9 Phenanthrene-d10	188	9.044	9.040	(1.000)	4006740	40.0000	
\$ 13 o-Terphenyl	230	9.349	9.351	(1.034)	114188	1.84292	630
* 17 Chrysene-d12	240	11.376	11.373	(1.000)	4140560	40.0000	
* 22 Perylene-d12	264	13.233	13.223	(1.000)	4283043	40.0000	
2 Naphthalene	128	6.124	6.126	(1.003)	24150	0.24017	82
3 2-Methylnaphthalene	142	6.829	6.825	(1.118)	13917	0.21727	74
4 1-Methylnaphthalene	142	6.923	6.919	(1.134)	12667	0.21118	72
5 Acenaphthylene	152	7.651	7.653	(0.983)	10599	0.09965	34
10 Phenanthrene	178	9.061	9.064	(1.002)	34685	0.30495	100
11 Anthracene	178	9.097	9.099	(1.006)	12867	0.11307	38
12 Carbazole	167	9.238	9.240	(1.021)	5089	0.05002	17
14 Fluoranthene	202	10.043	10.045	(1.110)	43338	0.36512	120

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.231	10.233	(0.899)	38038	0.29616	100
16 Benzo(a)anthracene	228	11.353	11.349	(0.998)	25559	0.22547	77
18 Chrysene	228	11.394	11.396	(1.002)	51882	0.44332	150
19 Benzo(b)fluoranthene	252	12.663	12.671	(0.957)	52351	0.47486	160(H)
20 Benzo(k)fluoranthene	252	12.692	12.712	(0.959)	16802	0.14556	50(H)
21 Benzo(a)pyrene	252	13.115	13.124	(0.991)	22767	0.20869	71
23 Indeno(1,2,3-cd)pyrene	276	14.813	14.827	(1.119)	19376	0.16642	57(M)
24 Dibenzo(a,h)anthracene	278	14.837	14.863	(1.121)	7602	0.07070	24
25 Benzo(g,h,i)perylene	276	15.248	15.280	(1.152)	20969	0.18890	64(H)

QC Flag Legend

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

Data File: 1DC28020.D

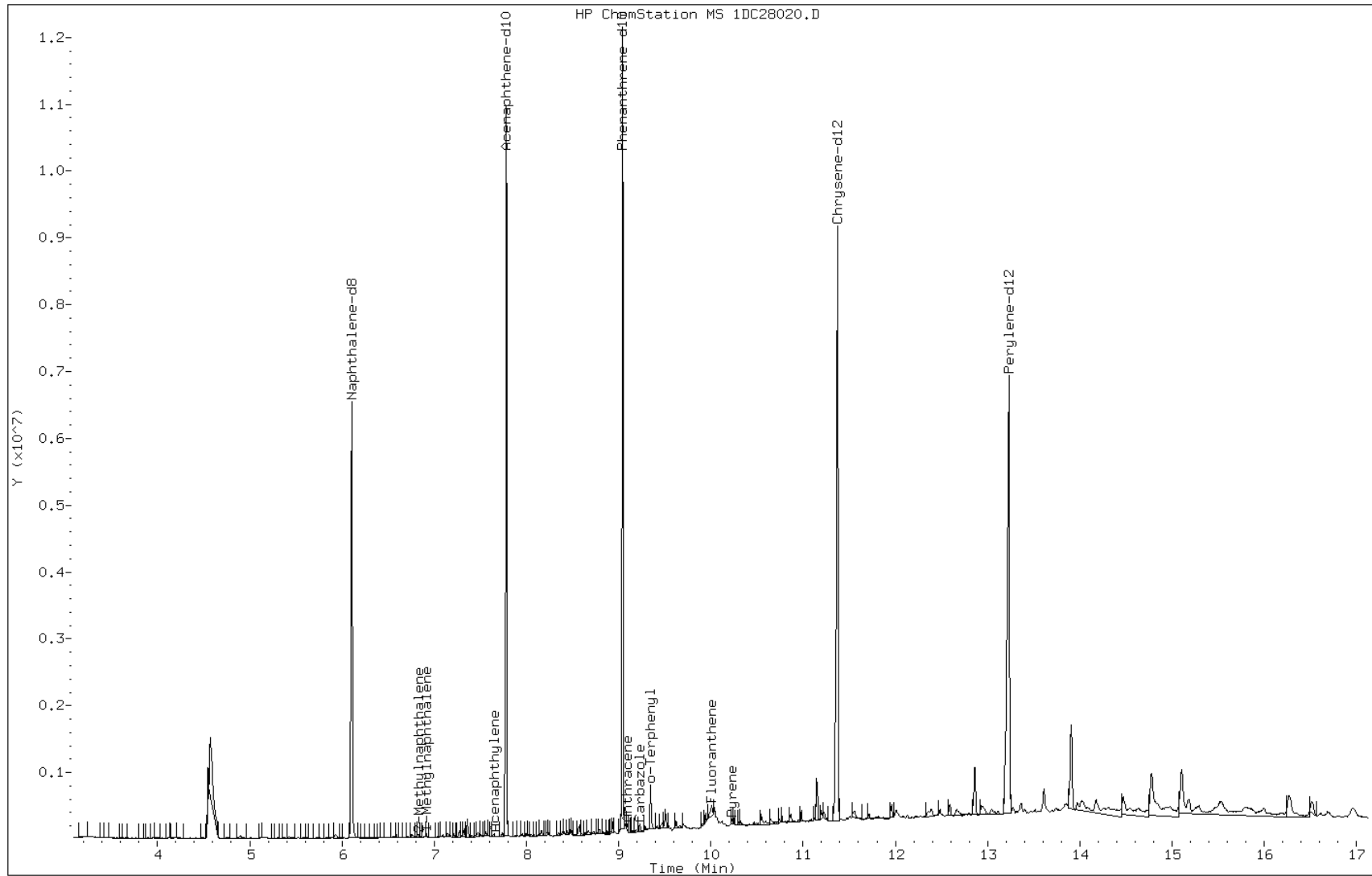
Date: 28-MAR-2013 19:05

Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

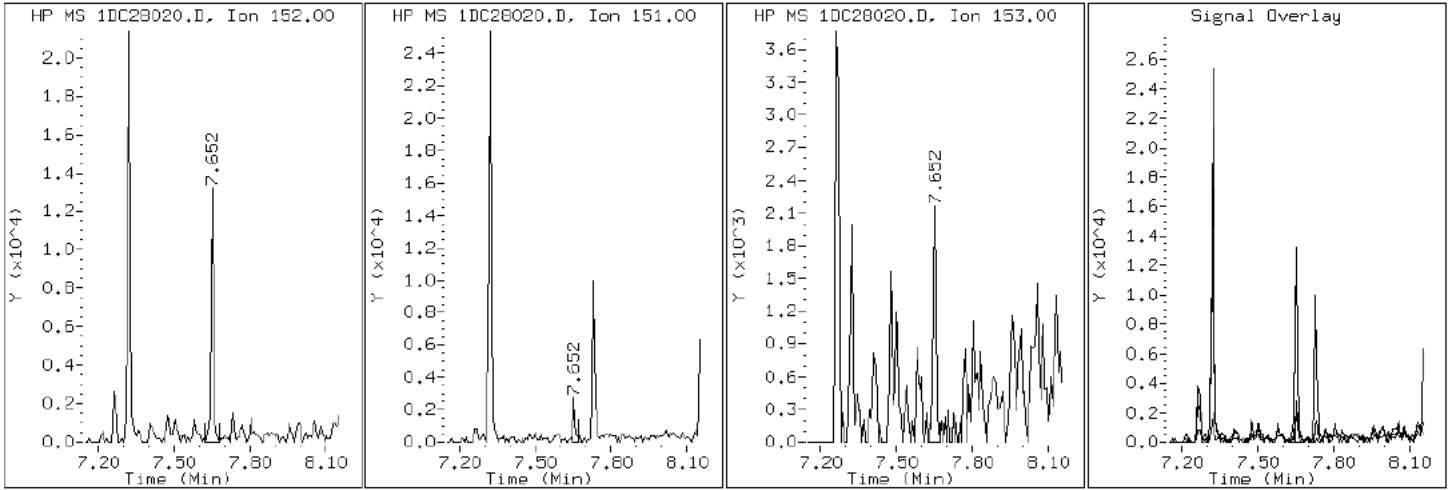
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

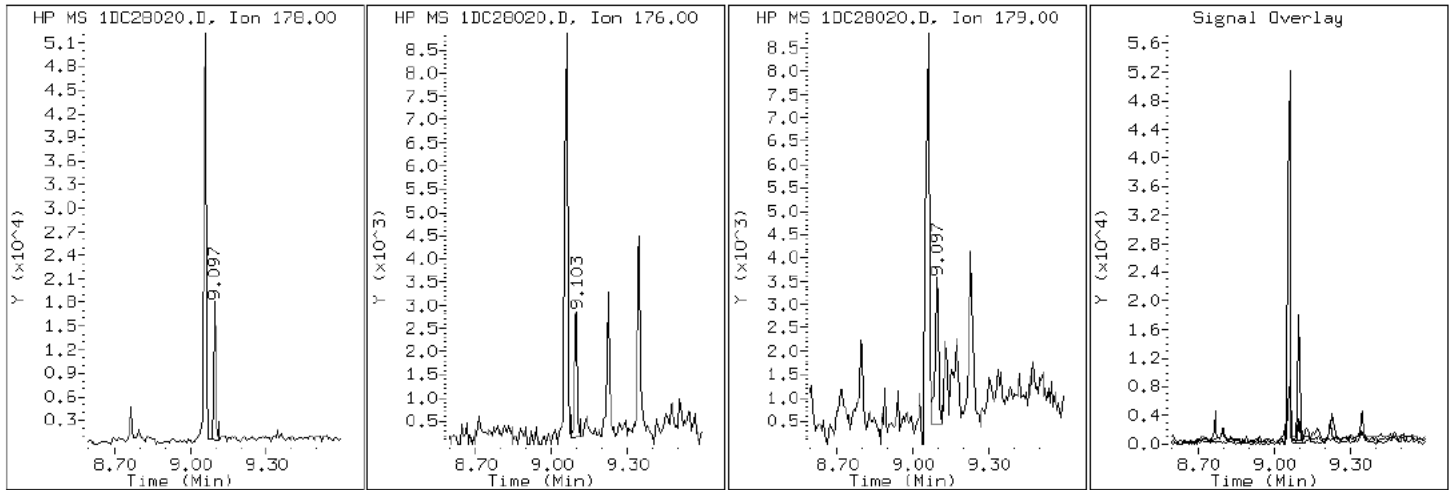
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

11 Anthracene





Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

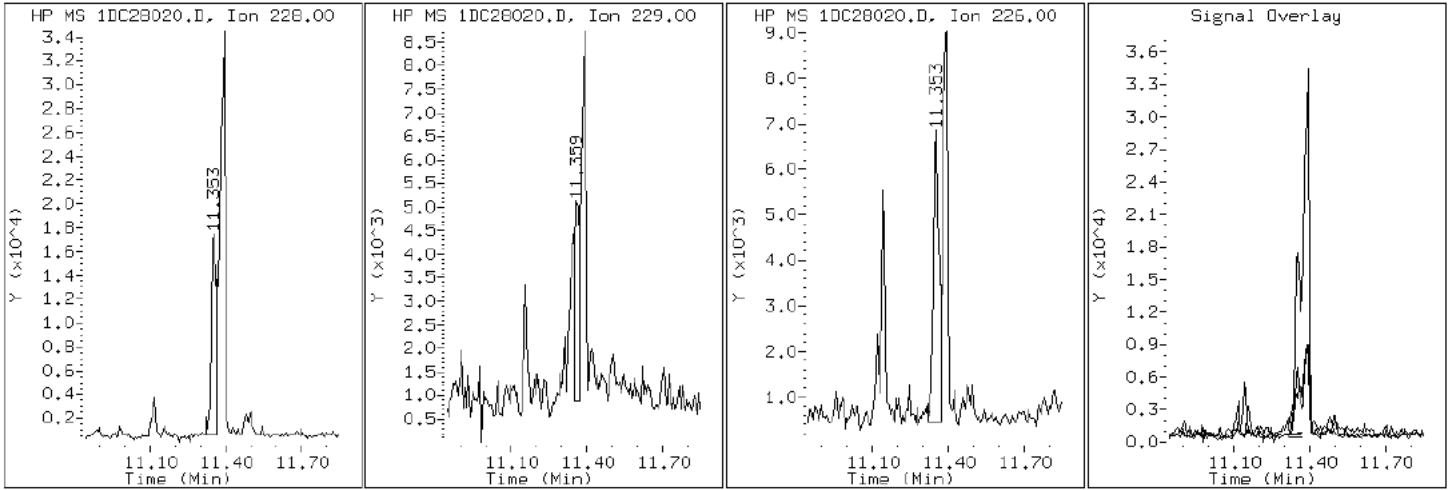
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

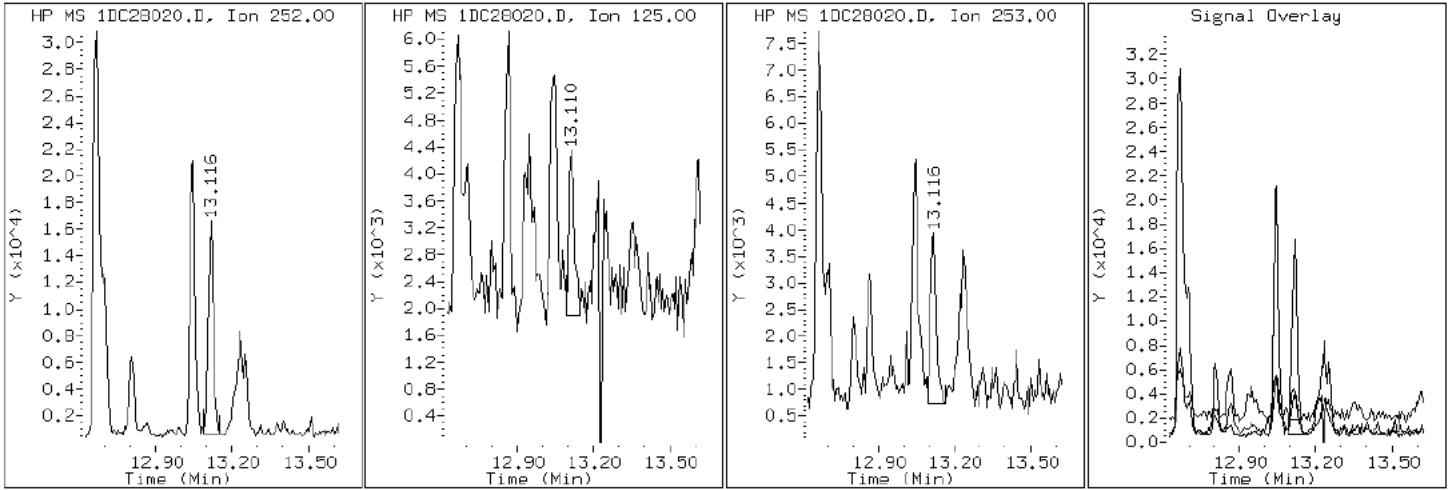
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

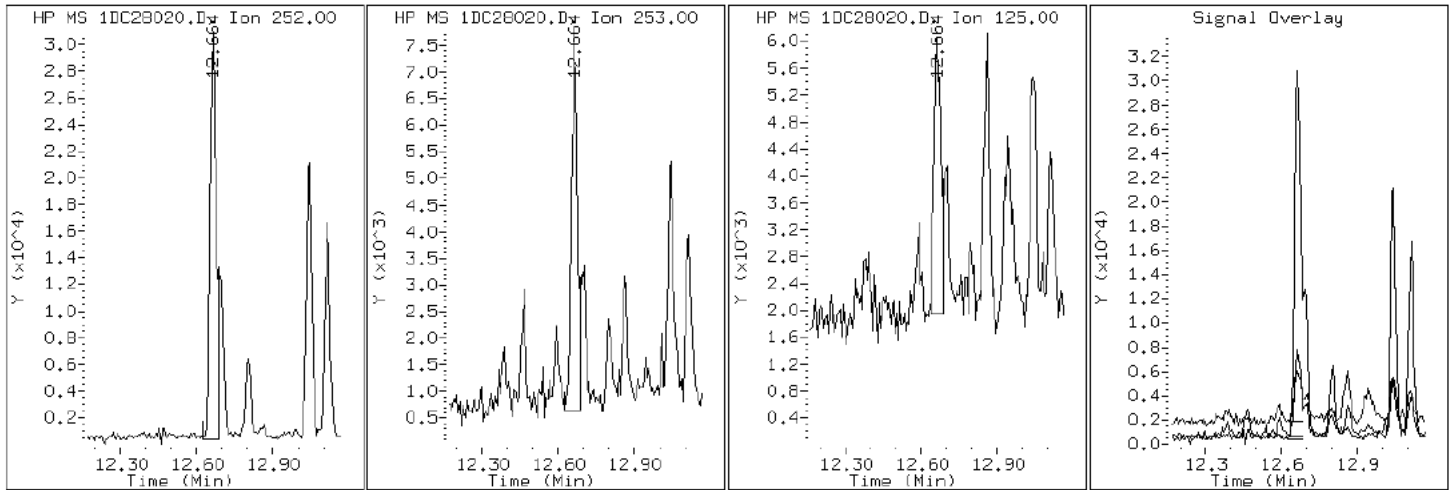
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

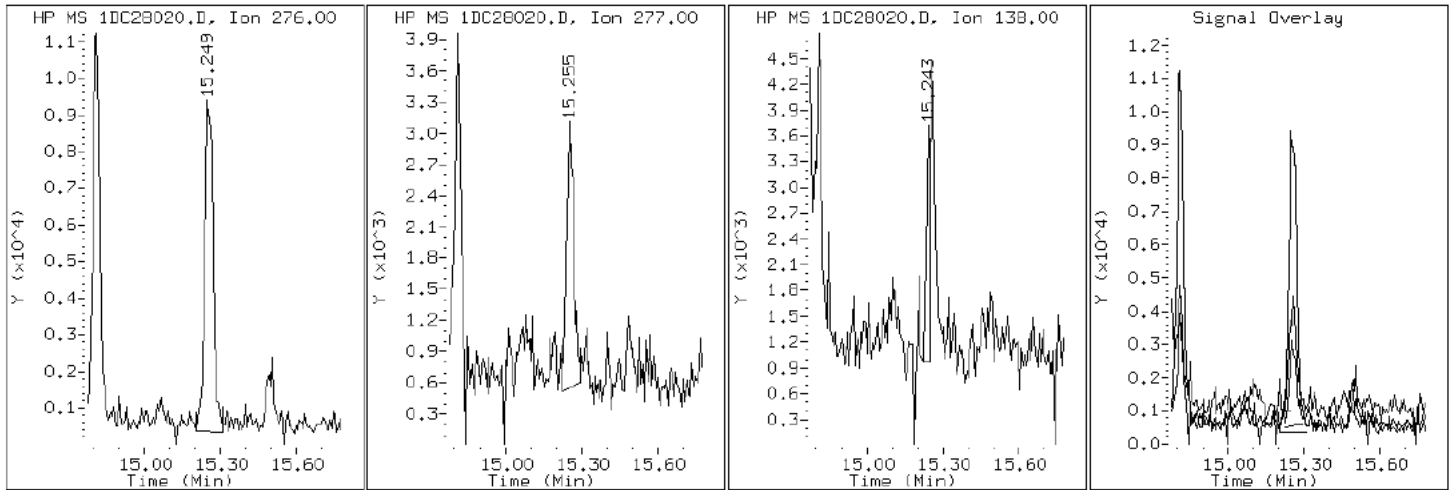
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

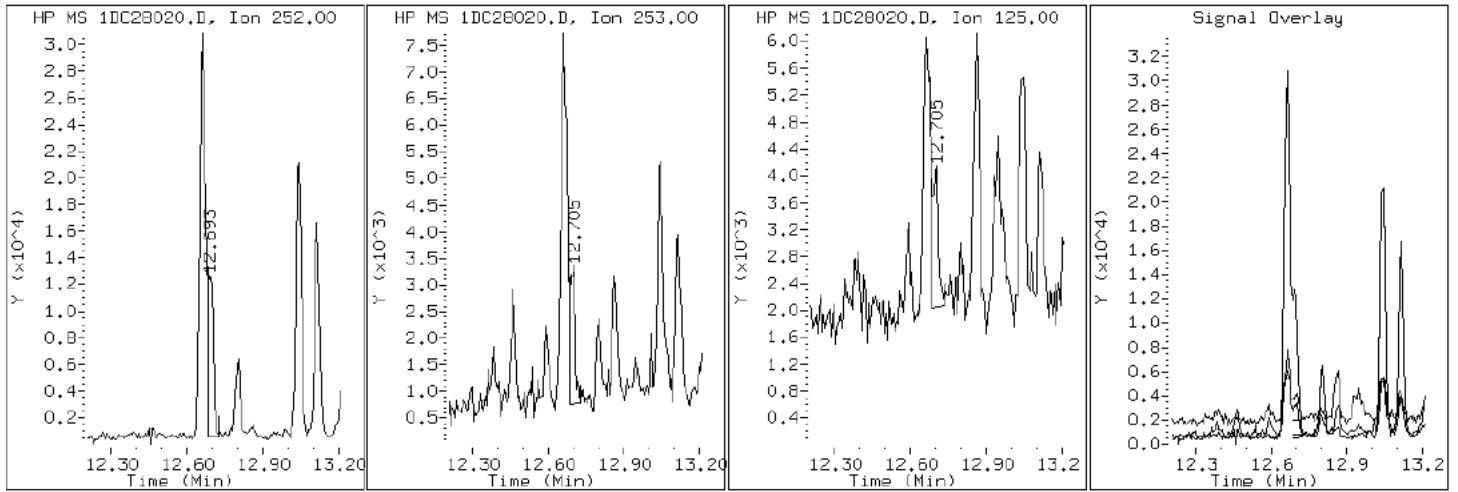
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

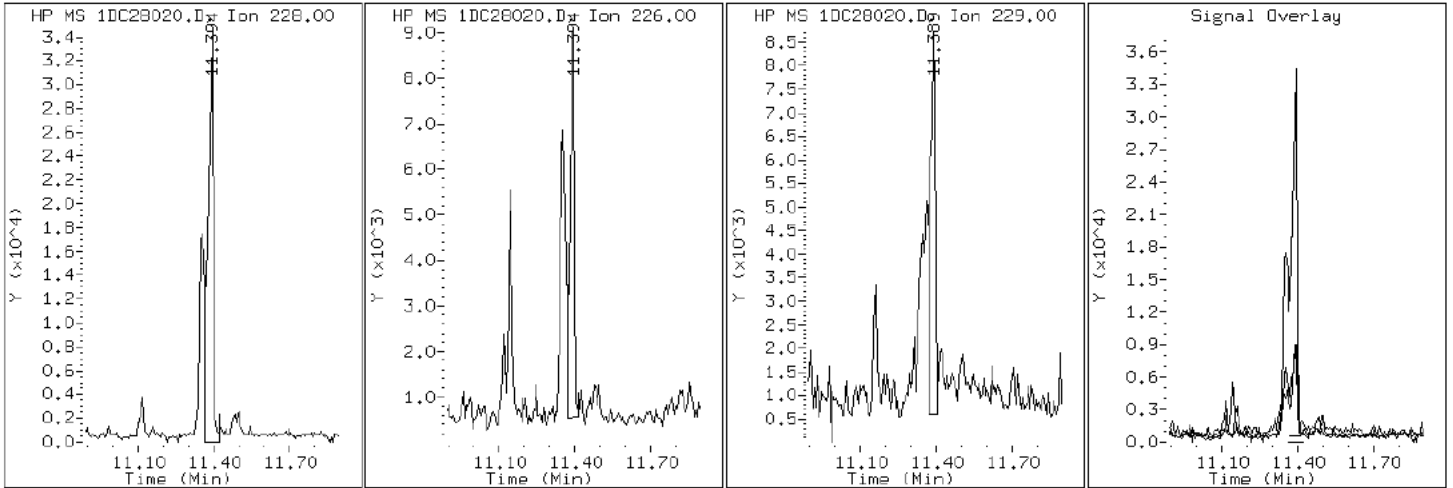
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

18 Chrysene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

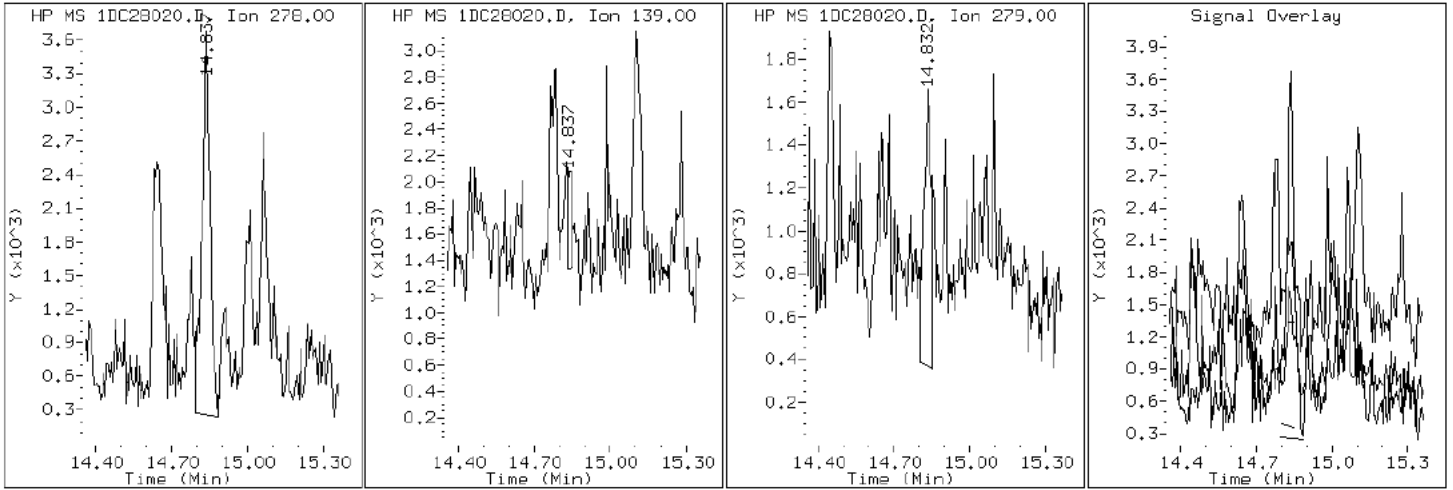
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

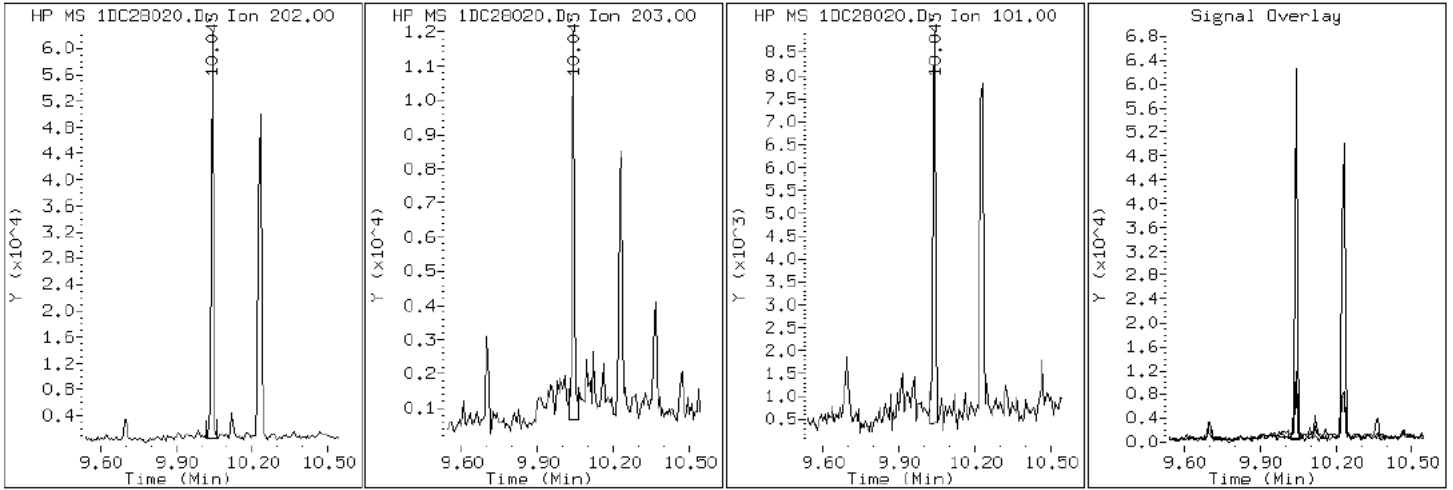
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

14 Fluoranthene





Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

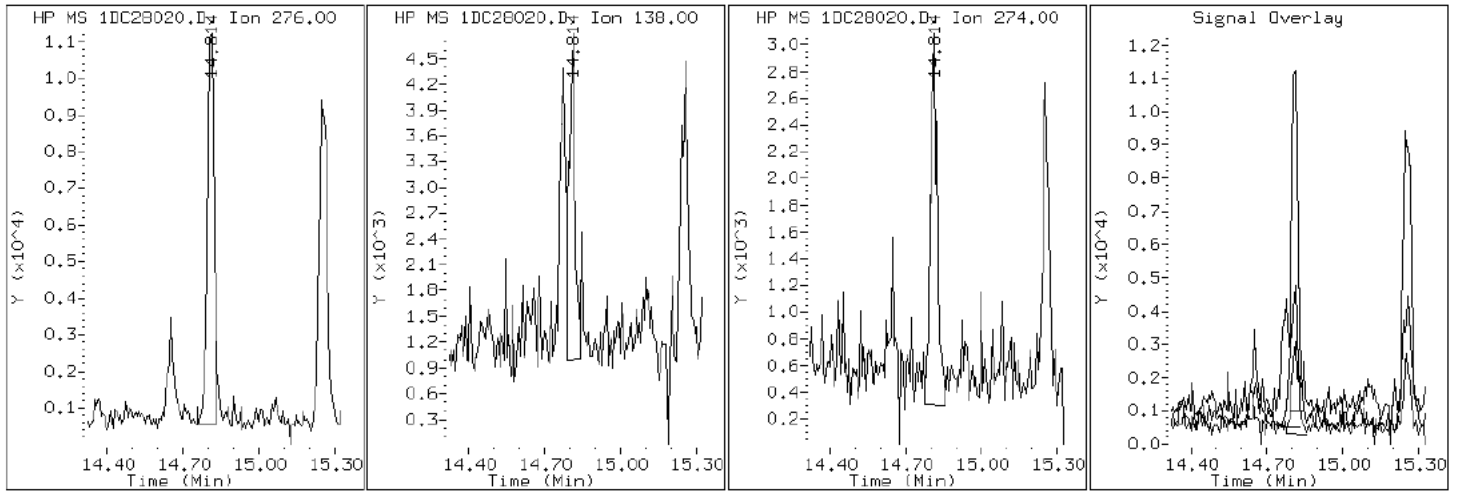
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

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



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

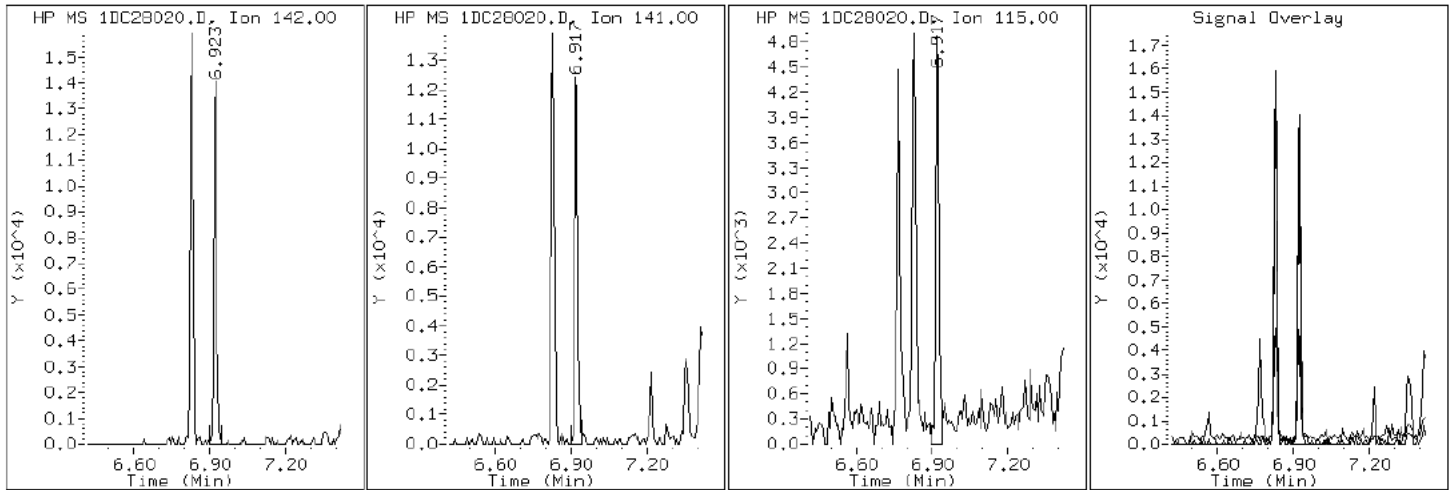
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

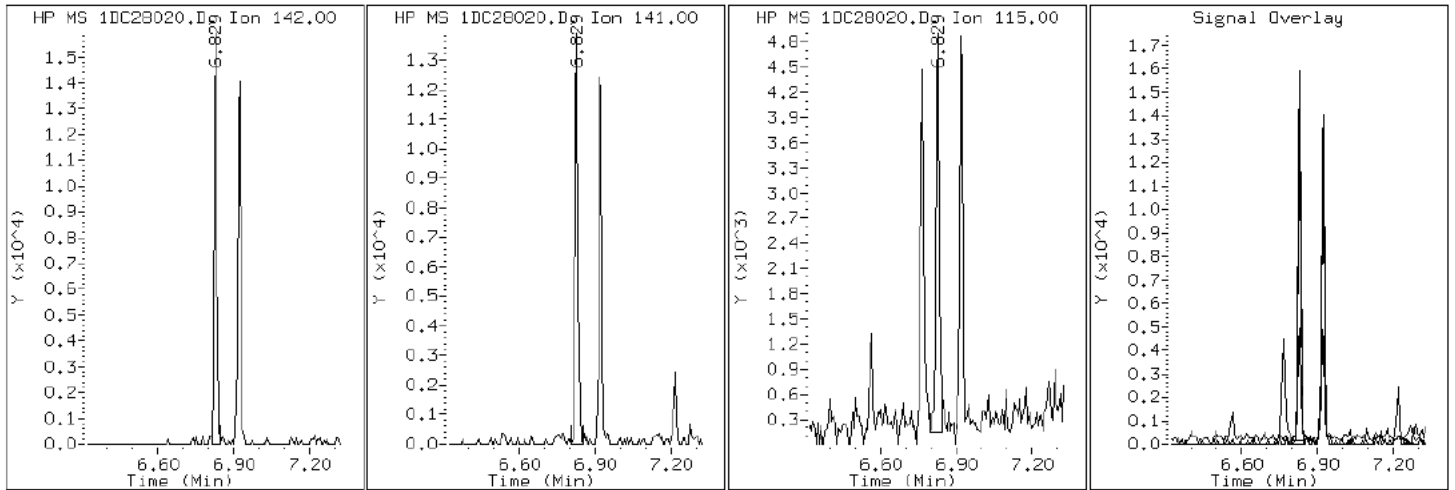
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

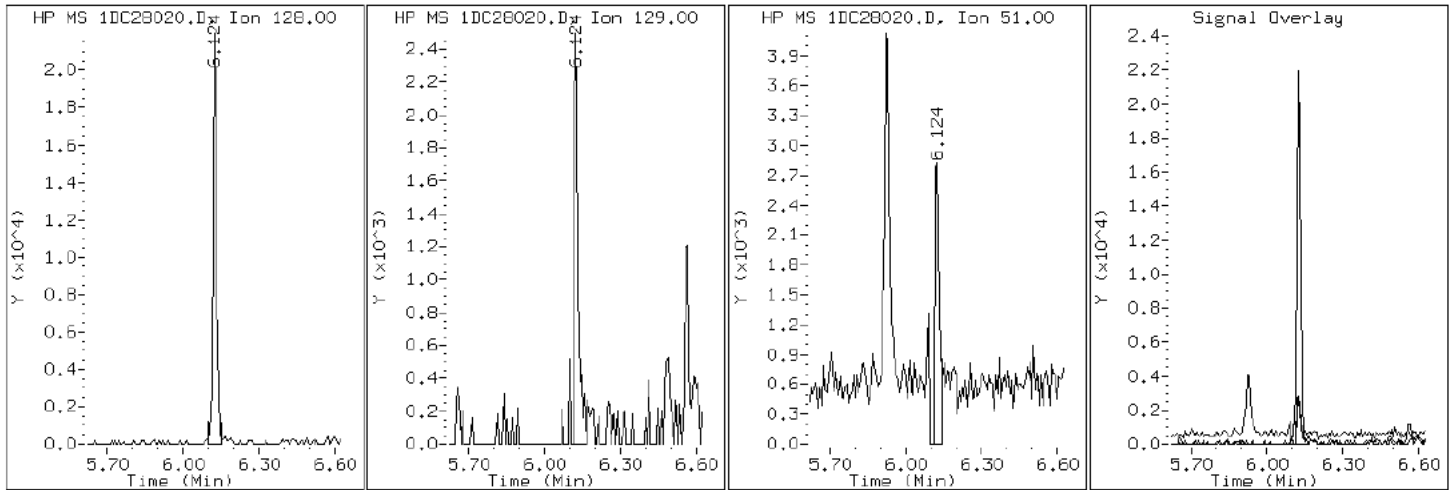
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

2 Naphthalene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

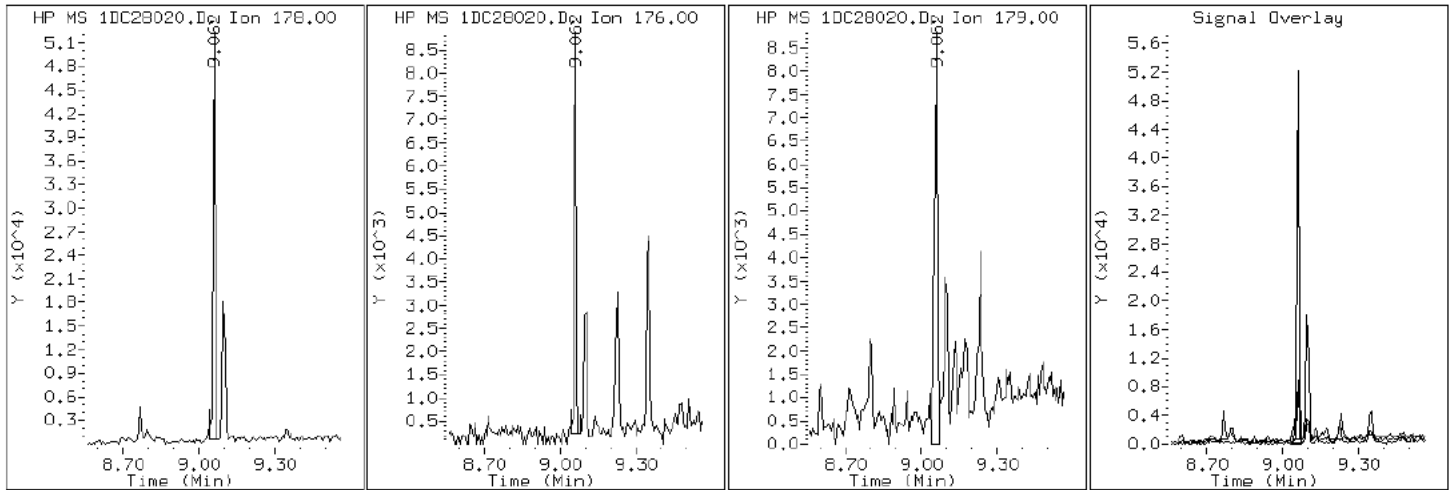
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28020.D

Date: 28-MAR-2013 19:05

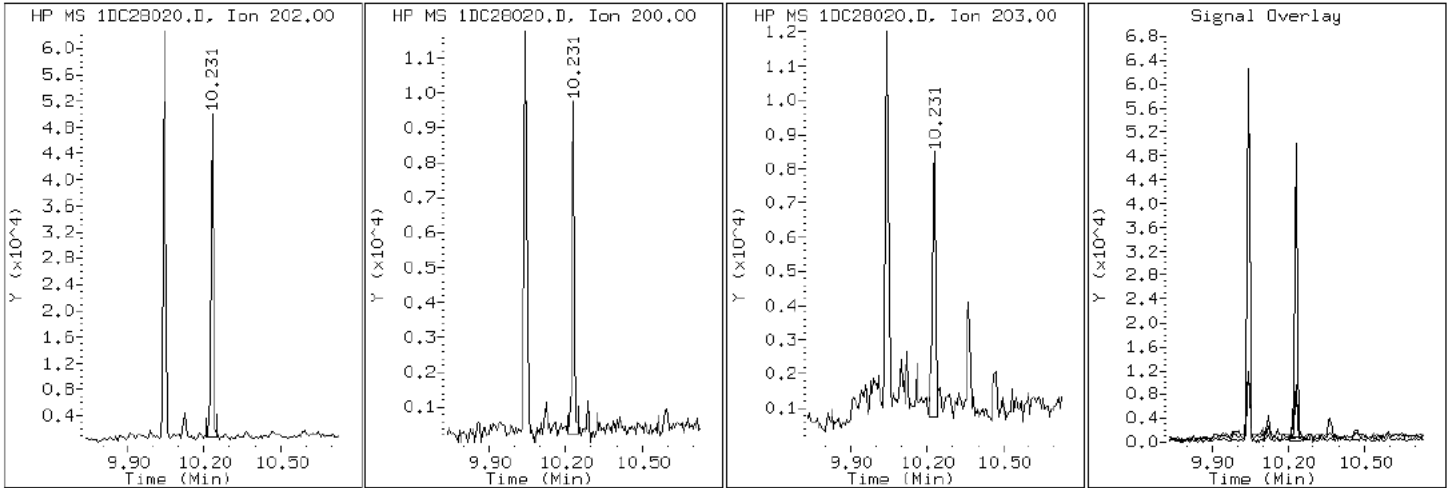
Client ID: FM0343B-CS

Instrument: BSMSD.i

Sample Info: 680-88632-A-8-A

Operator: SCC

15 Pyrene

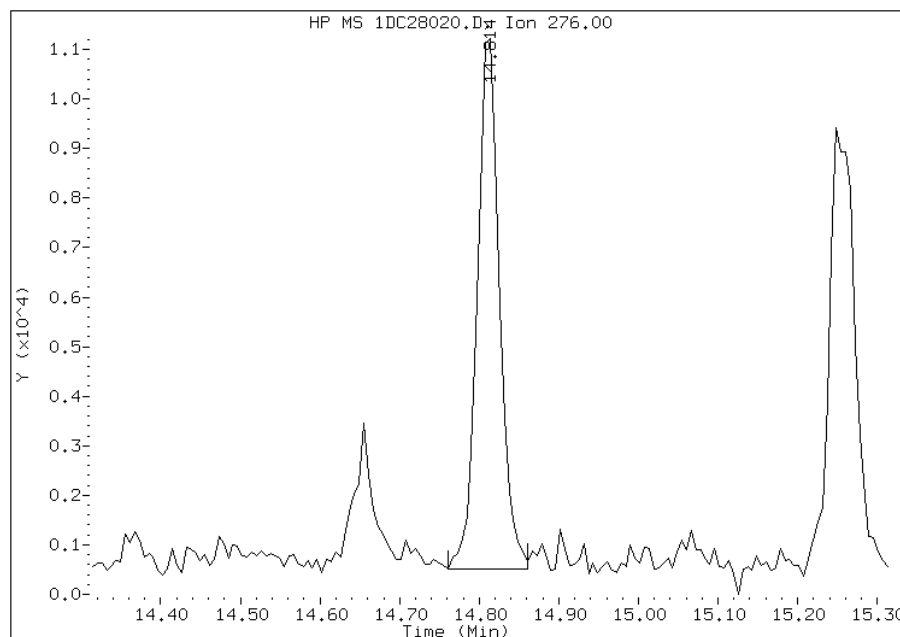


# Manual Integration Report

Data File: 1DC28020.D  
Inj. Date and Time: 28-MAR-2013 19:05  
Instrument ID: BSMSD.i  
Client ID: FM0343B-CS  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

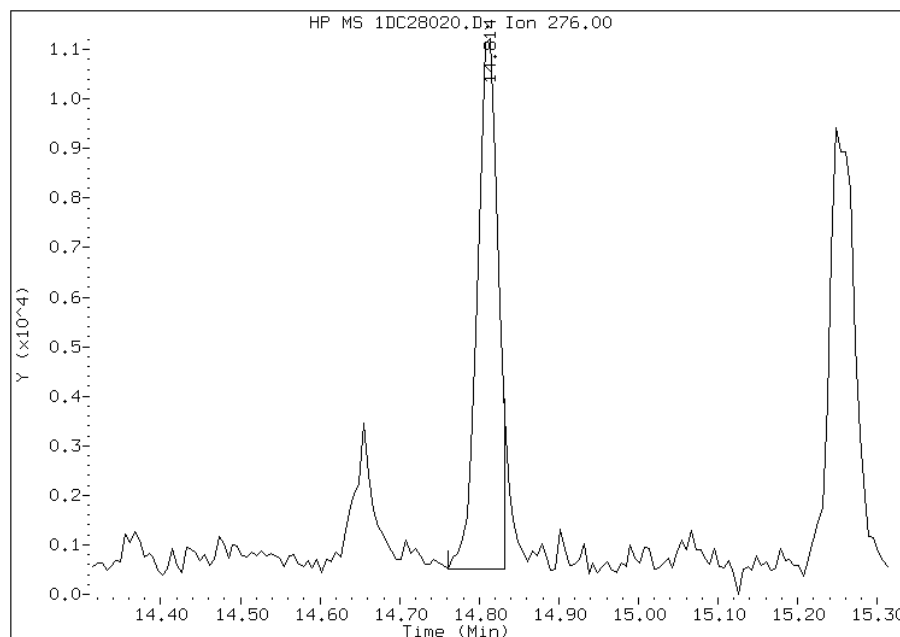
## Processing Integration Results

RT: 14.81  
Response: 20628  
Amount: 0  
Conc: 60



## Manual Integration Results

RT: 14.81  
Response: 19376  
Amount: 0  
Conc: 57



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:01  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0090A-CS-SP Lab Sample ID: 680-88632-9  
 Matrix: Solid Lab File ID: 1DC28021.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:23  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.74(g) Date Analyzed: 03/28/2013 19:27  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.9 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	28	J	44	22
56-55-3	Benzo[a]anthracene	110		42	20
50-32-8	Benzo[a]pyrene	110		54	27
205-99-2	Benzo[b]fluoranthene	210		64	32
191-24-2	Benzo[g,h,i]perylene	90	J	100	23
207-08-9	Benzo[k]fluoranthene	62		42	19
218-01-9	Chrysene	260		47	23
53-70-3	Dibenz(a,h)anthracene	29	J	100	21
206-44-0	Fluoranthene	170		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	74	J	100	37
90-12-0	1-Methylnaphthalene	140	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	37
91-20-3	Naphthalene	110	J	210	23
85-01-8	Phenanthrene	210		42	20
129-00-0	Pyrene	160		100	19

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



TestAmerica Laboratories

Semivolatle 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28021.D  
 Lab Smp Id: 680-88632-A-9-A Client Smp ID: CV0090A-CS-SP  
 Inj Date : 28-MAR-2013 19:27  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-9-A  
 Misc Info : 680-88632-A-9-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 21  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.740	Weight Extracted
M	21.875	% 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	6.107	6.102	(1.000)	3795129	40.0000	
* 6 Acenaphthene-d10	164	7.782	7.777	(1.000)	2484528	40.0000	
* 9 Phenanthrene-d10	188	9.045	9.040	(1.000)	4171365	40.0000	
\$ 13 o-Terphenyl	230	9.350	9.351	(1.034)	98893	1.53308	530
* 17 Chrysene-d12	240	11.377	11.373	(1.000)	4214033	40.0000	
* 22 Perylene-d12	264	13.234	13.223	(1.000)	4339115	40.0000	
2 Naphthalene	128	6.125	6.126	(1.003)	32957	0.32463	110
3 2-Methylnaphthalene	142	6.830	6.825	(1.118)	30010	0.46404	160
4 1-Methylnaphthalene	142	6.918	6.919	(1.133)	23807	0.39312	140
5 Acenaphthylene	152	7.652	7.653	(0.983)	4764	0.04349	15
10 Phenanthrene	178	9.062	9.064	(1.002)	71597	0.60465	210
11 Anthracene	178	9.098	9.099	(1.006)	9438	0.07966	28
12 Carbazole	167	9.239	9.240	(1.021)	6001	0.05666	20
14 Fluoranthene	202	10.044	10.045	(1.110)	62183	0.50322	170

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.232	10.233 (0.899)		58877	0.45042	160
16 Benzo(a)anthracene	228	11.354	11.349 (0.998)		37998	0.32936	110
18 Chrysene	228	11.395	11.396 (1.002)		88721	0.74488	260
19 Benzo(b)fluoranthene	252	12.664	12.671 (0.957)		67206	0.60173	210
20 Benzo(k)fluoranthene	252	12.699	12.712 (0.960)		20957	0.17921	62(H)
21 Benzo(a)pyrene	252	13.116	13.124 (0.991)		34375	0.31102	110
23 Indeno(1,2,3-cd)pyrene	276	14.814	14.827 (1.119)		25117	0.21295	74(M)
24 Dibenzo(a,h)anthracene	278	14.838	14.863 (1.121)		9166	0.08415	29(H)
25 Benzo(g,h,i)perylene	276	15.267	15.280 (1.154)		29107	0.25883	90(H)

QC Flag Legend

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

Data File: 1DC28021.D

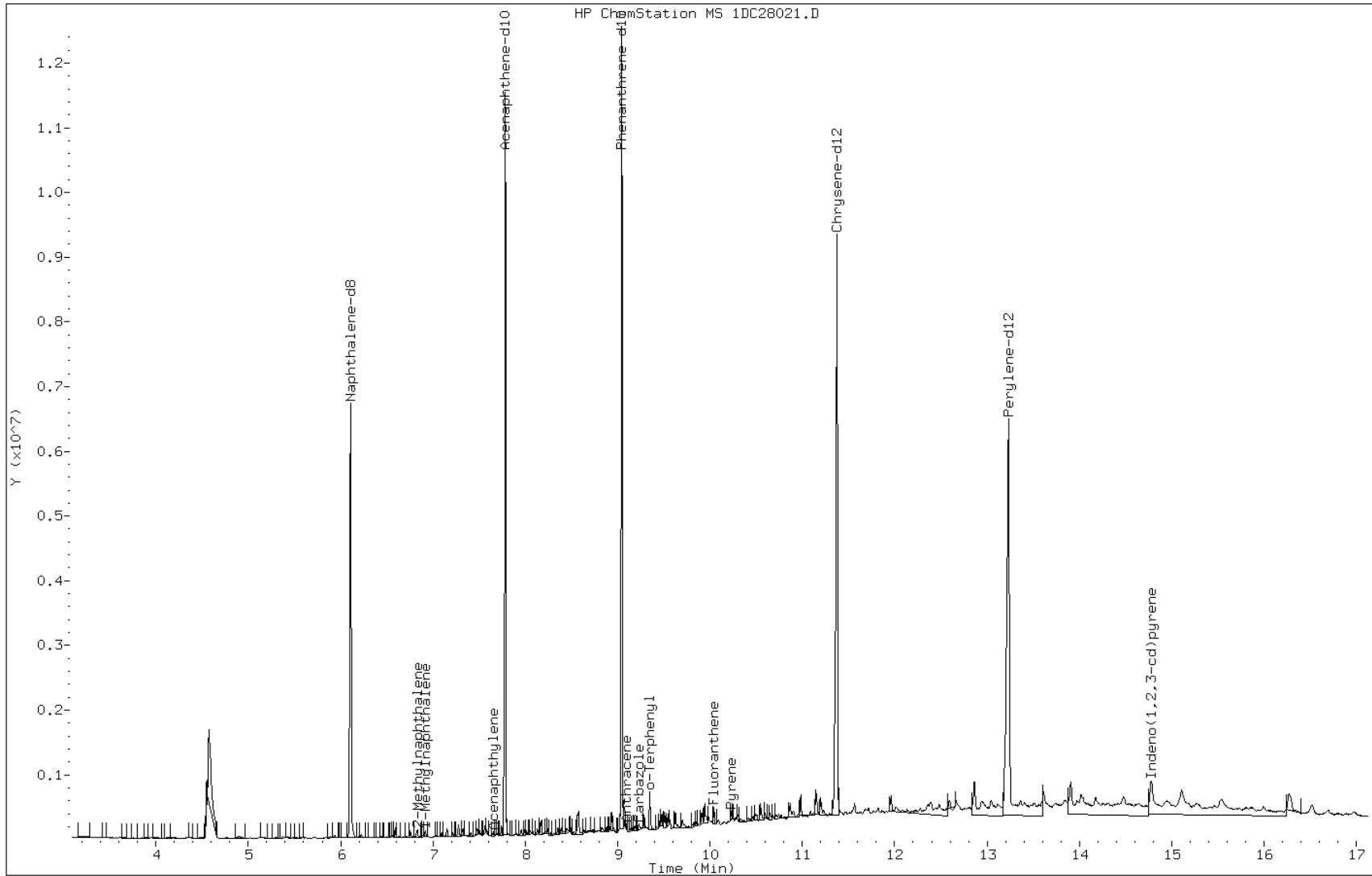
Date: 28-MAR-2013 19:27

Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

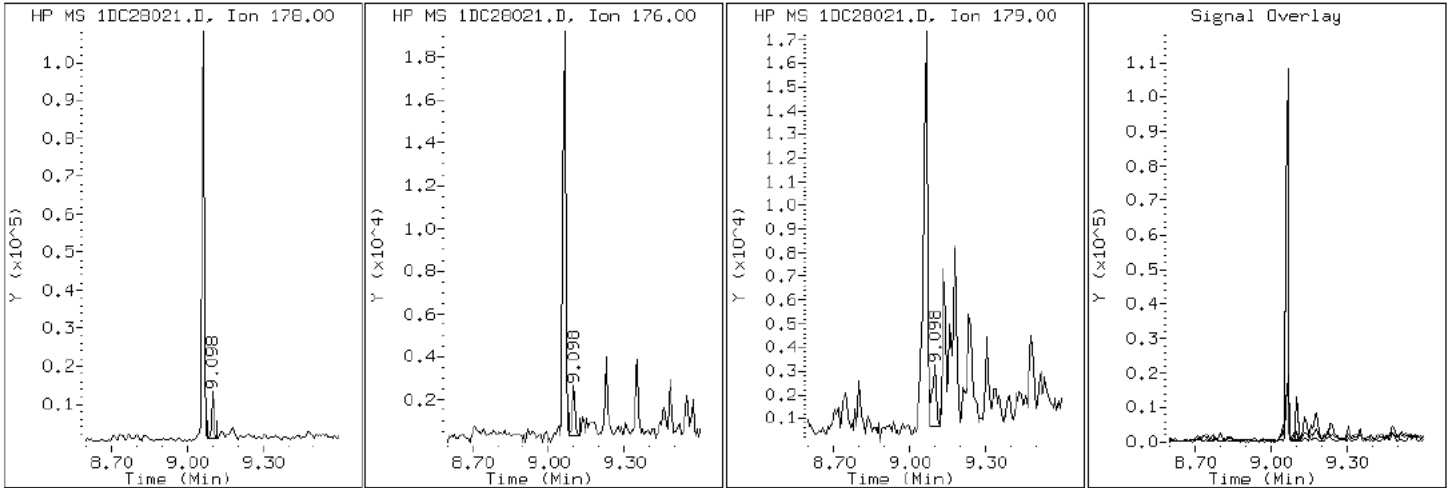
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

11 Anthracene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

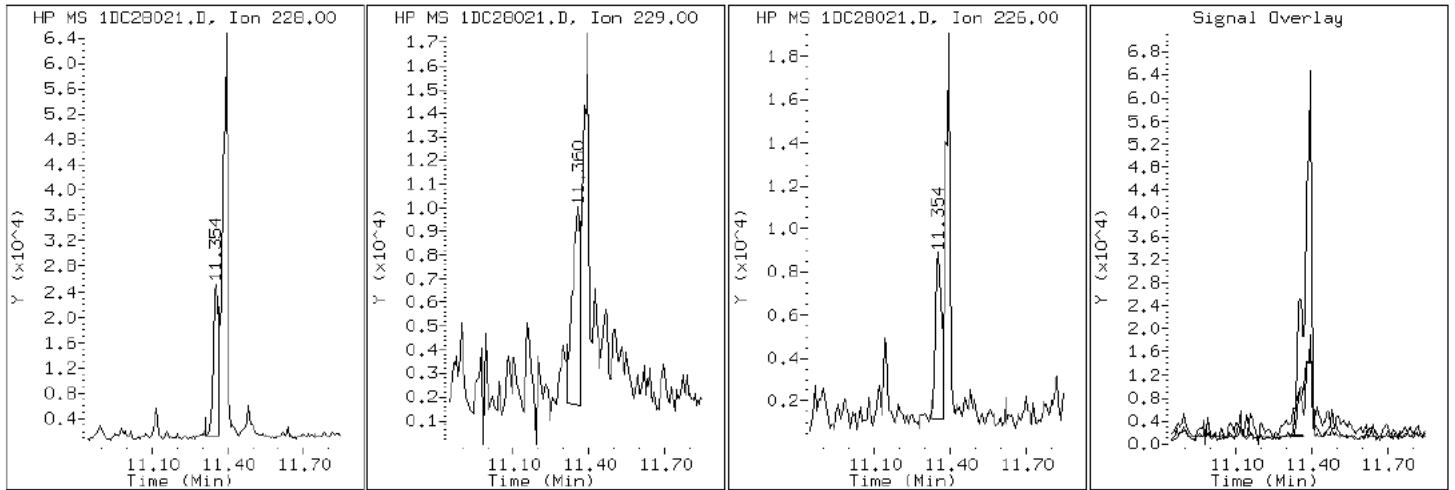
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

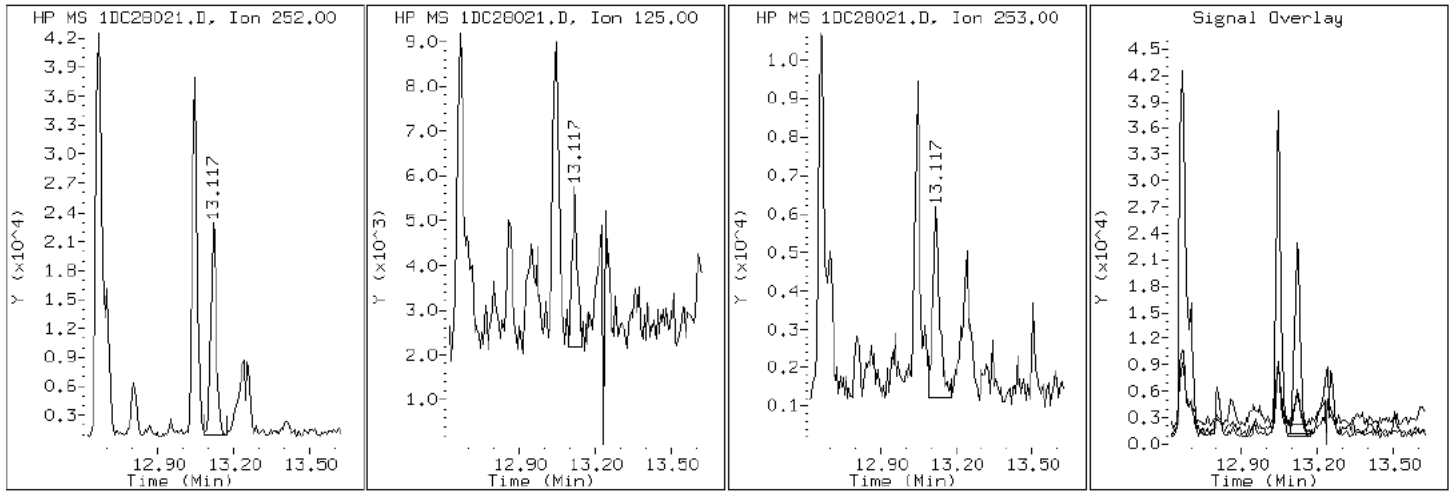
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

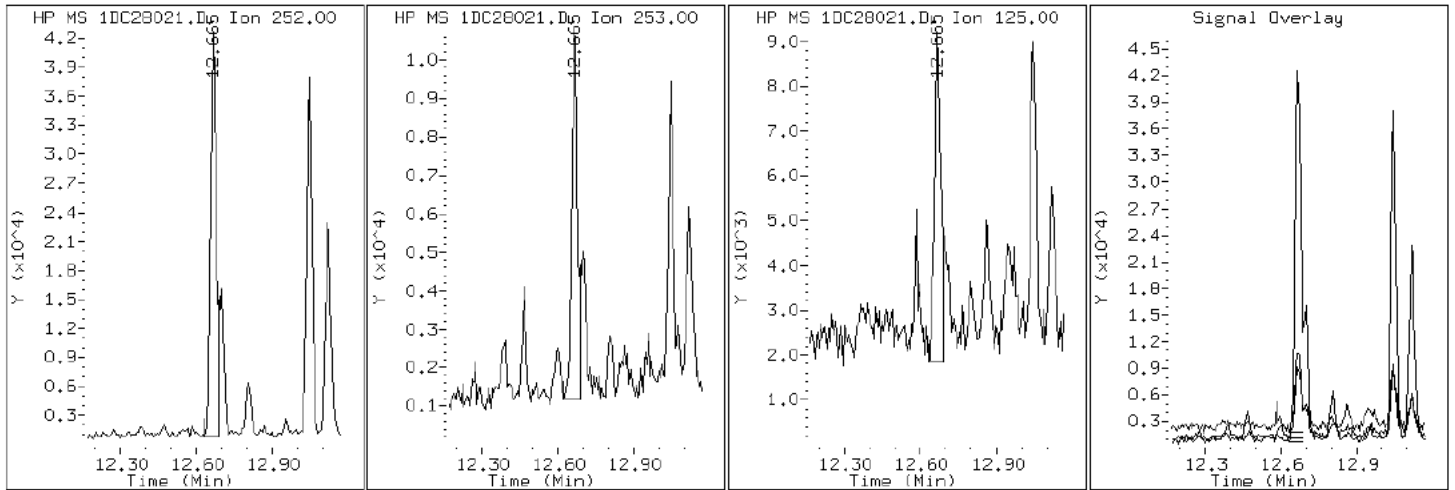
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

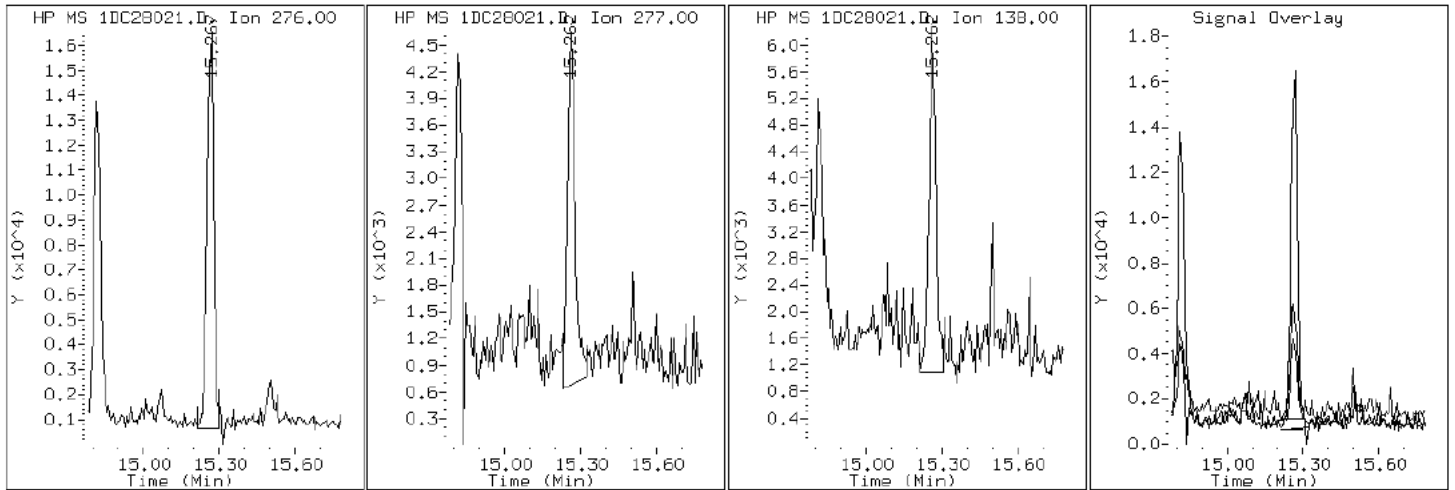
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

25 Benzo(g,h,i)perylene





Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

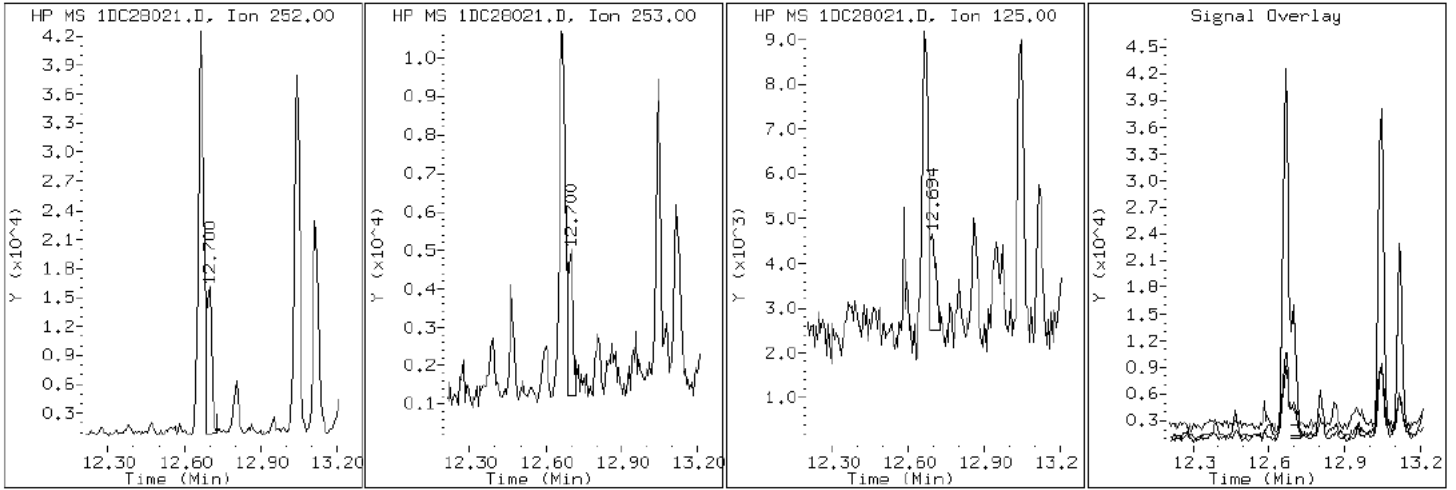
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

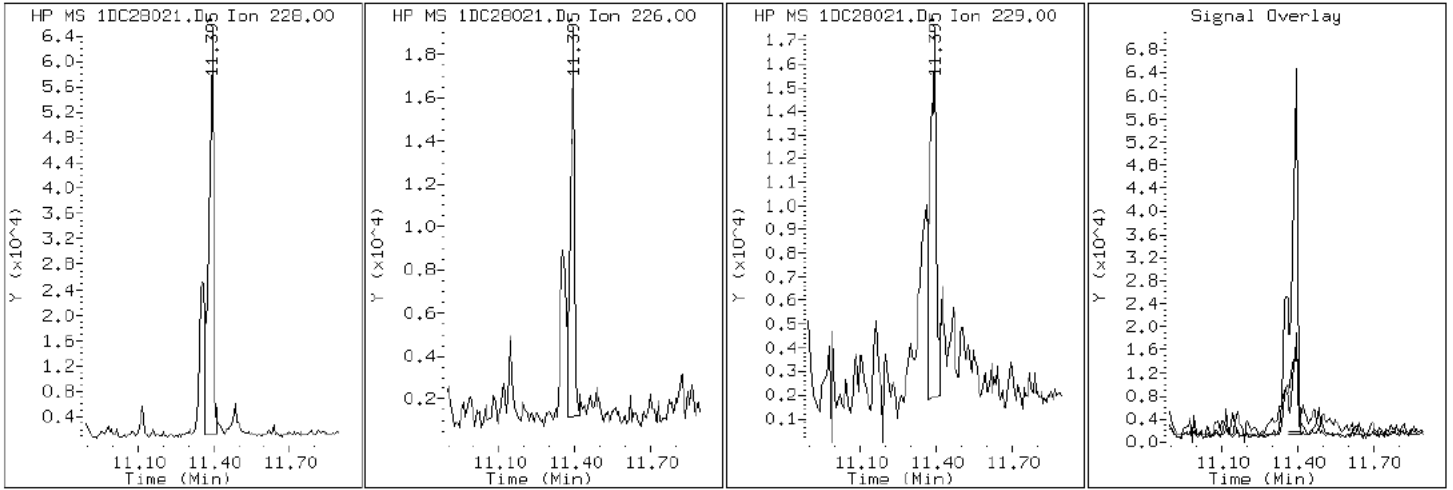
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

18 Chrysene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

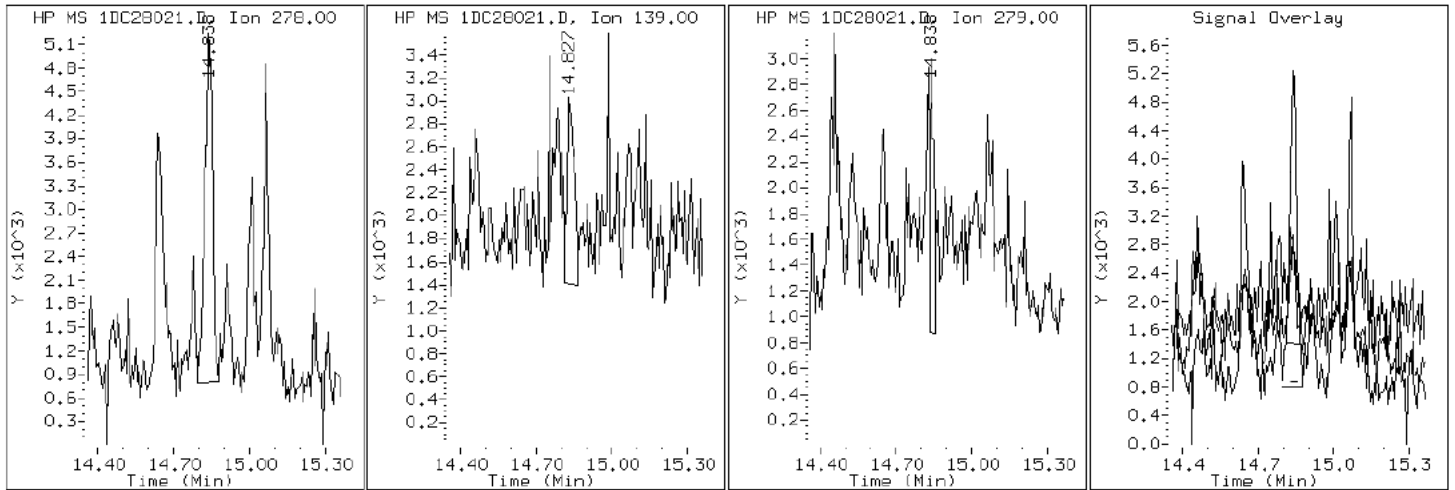
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

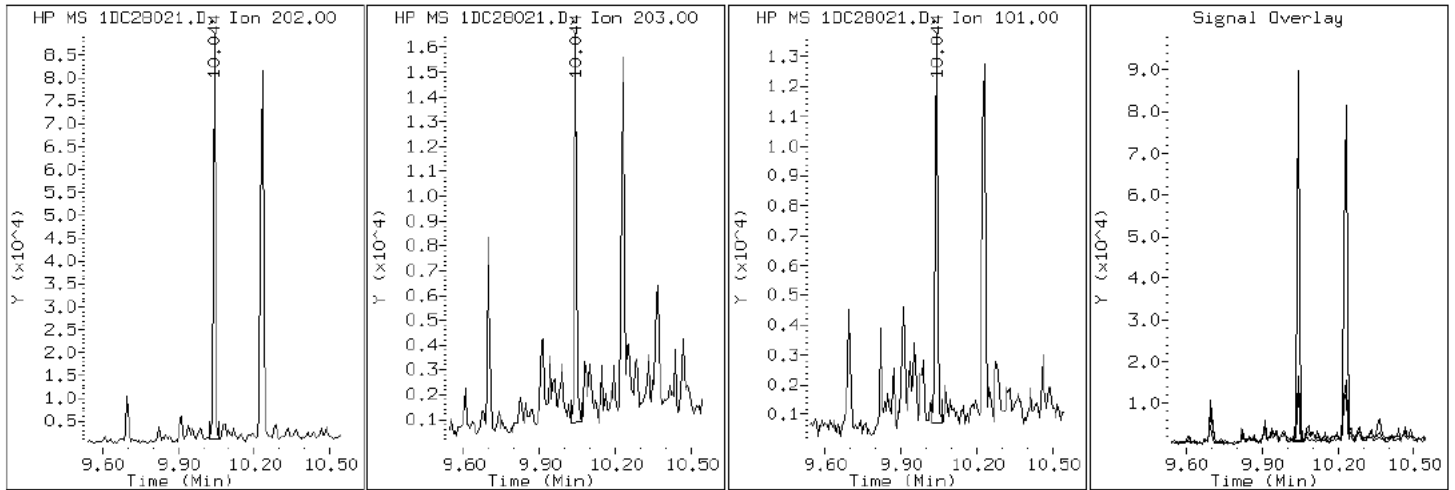
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

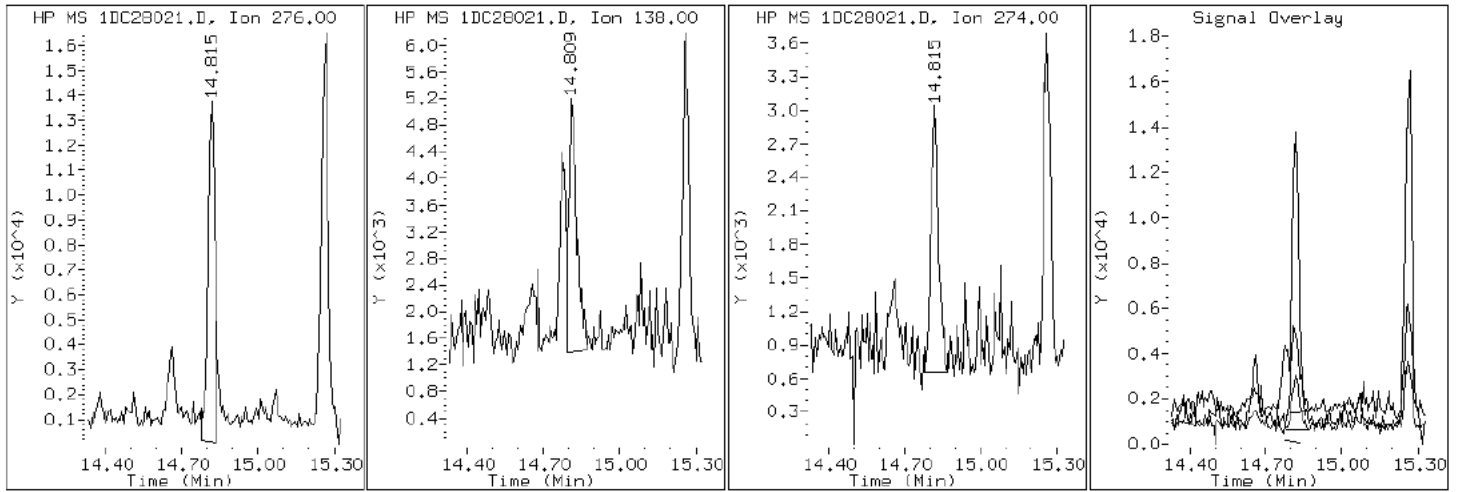
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

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



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

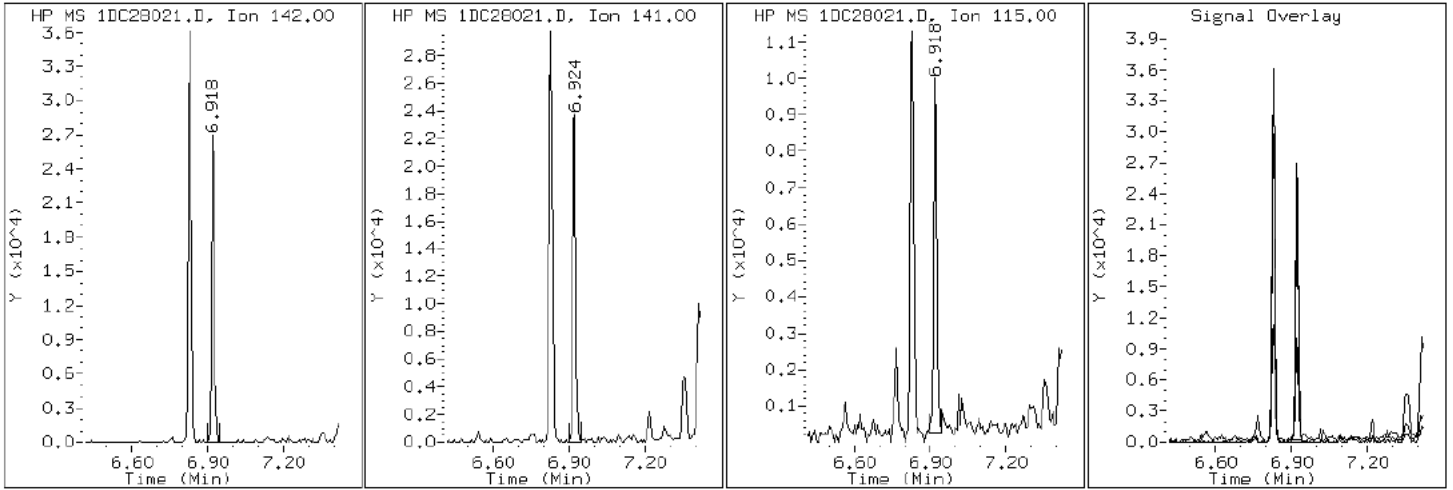
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

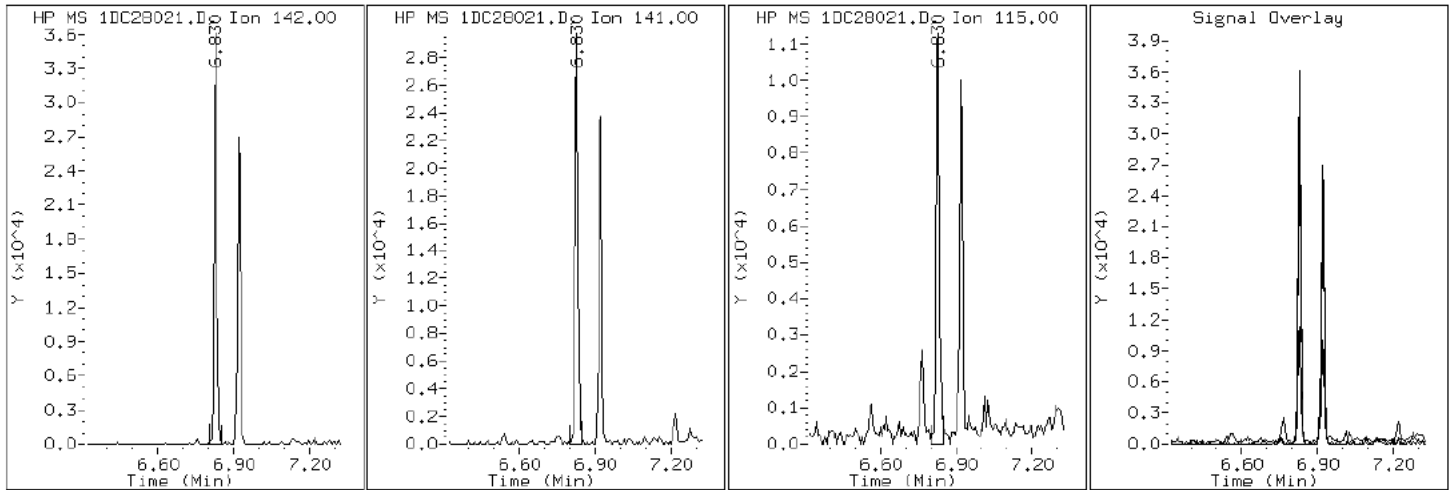
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

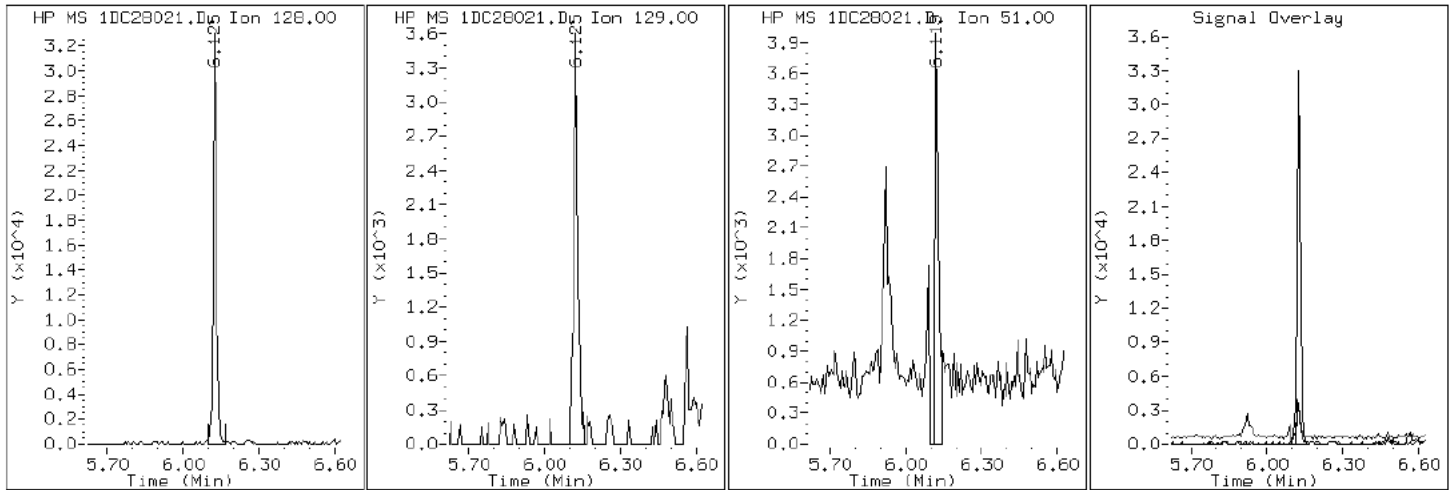
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

2 Naphthalene





Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

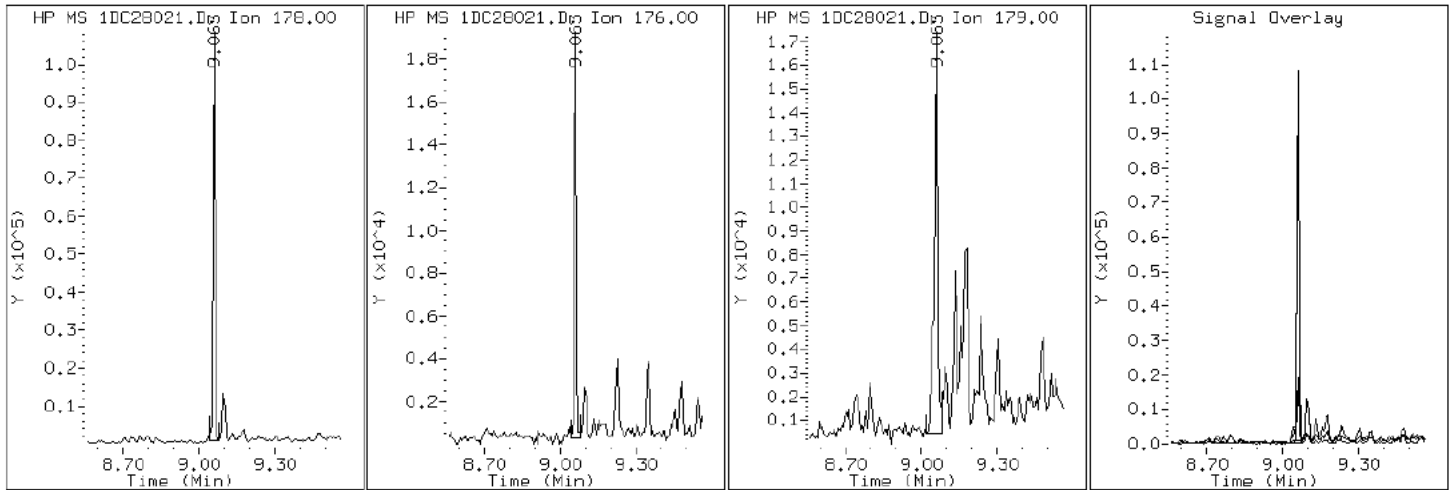
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28021.D

Date: 28-MAR-2013 19:27

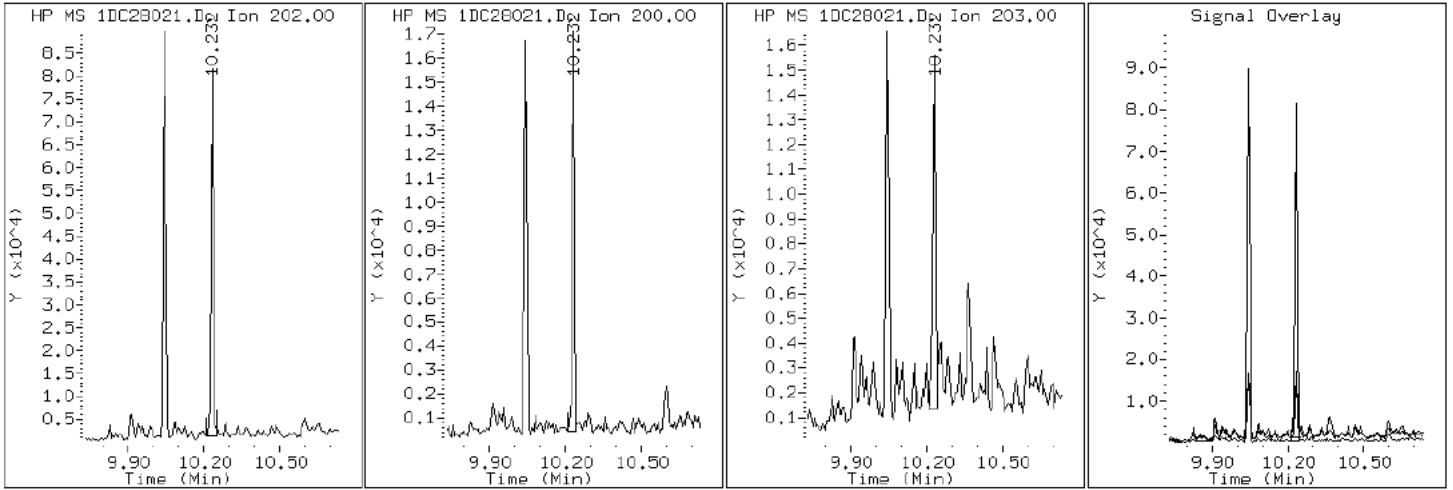
Client ID: CV0090A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-9-A

Operator: SCC

15 Pyrene

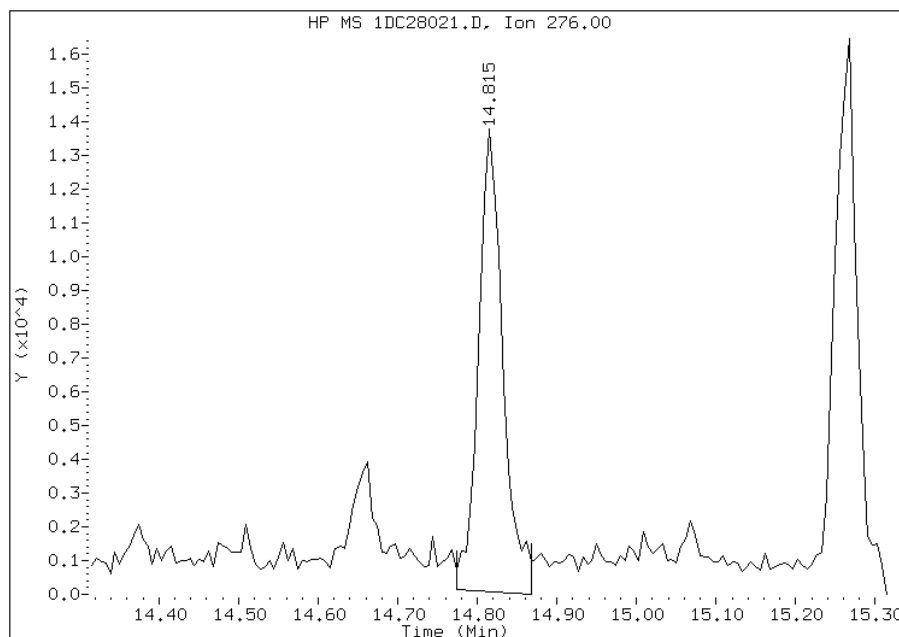


# Manual Integration Report

Data File: 1DC28021.D  
Inj. Date and Time: 28-MAR-2013 19:27  
Instrument ID: BSMSD.i  
Client ID: CV0090A-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

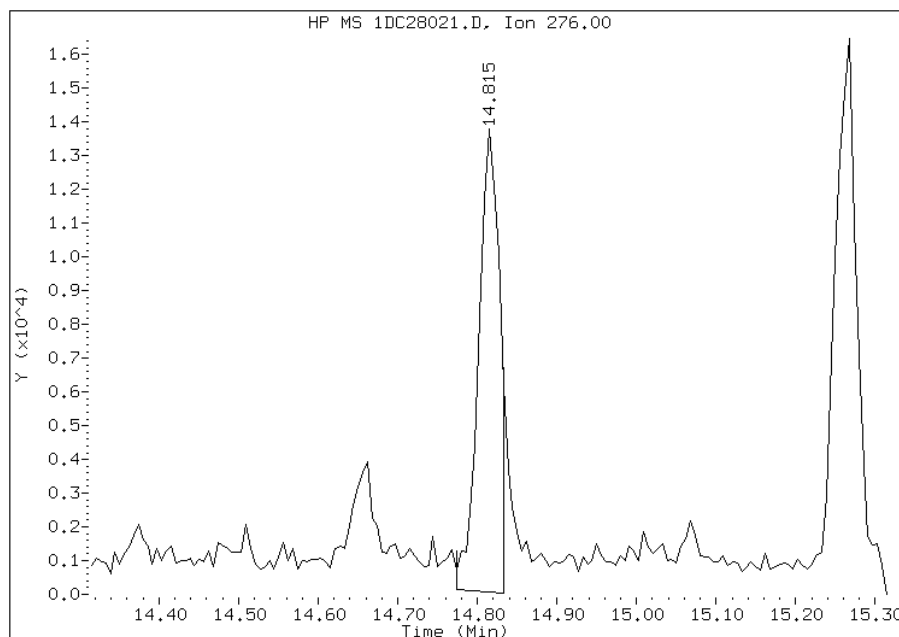
## Processing Integration Results

RT: 14.81  
Response: 29289  
Amount: 0  
Conc: 86



## Manual Integration Results

RT: 14.81  
Response: 25117  
Amount: 0  
Conc: 74



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:02  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0090B-CS-SP Lab Sample ID: 680-88632-10  
 Matrix: Solid Lab File ID: 1CD01015.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:35  
 Extract. Method: 3546 Date Extracted: 03/27/2013 15:04  
 Sample wt/vol: 14.99(g) Date Analyzed: 04/01/2013 15:28  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	380	J F	510	100
208-96-8	Acenaphthylene	330		200	26
120-12-7	Anthracene	1200	F	43	21
56-55-3	Benzo[a]anthracene	4800	F	41	20
50-32-8	Benzo[a]pyrene	4700	F	53	27
205-99-2	Benzo[b]fluoranthene	7400	F	62	31
191-24-2	Benzo[g,h,i]perylene	3400	F	100	22
207-08-9	Benzo[k]fluoranthene	2100	F	41	18
218-01-9	Chrysene	4700	F	46	23
53-70-3	Dibenz(a,h)anthracene	940	F	100	21
206-44-0	Fluoranthene	9500	F	100	20
86-73-7	Fluorene	390	F	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	2400	F	100	36
90-12-0	1-Methylnaphthalene	260		200	22
91-57-6	2-Methylnaphthalene	260		200	36
91-20-3	Naphthalene	480	F	200	22
85-01-8	Phenanthrene	4400	F	41	20
129-00-0	Pyrene	8000	F	100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01015.D  
 Lab Smp Id: 680-88632-A-10-A Client Smp ID: CV0090B-CS-SP  
 Inj Date : 01-APR-2013 15:28  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-10-a  
 Misc Info : 680-88632-A-10-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 15  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	21.564	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.716	3.716	(1.000)	716386	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	533576	40.0000	
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	1031335	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	24744	1.58907	540.6146
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1197734	40.0000	
* 23 Perylene-d12	264		8.874	8.886	(1.000)	1194441	40.0000	
2 Naphthalene	128		3.733	3.733	(1.005)	26187	1.40411	477.6909
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)	9383	0.75423	256.5952
4 1-Methylnaphthalene	142		4.222	4.222	(1.136)	8574	0.75673	257.4459
5 Acenaphthylene	152		4.716	4.716	(0.982)	20889	0.97103	330.3545
7 Acenaphthene	154		4.822	4.827	(1.004)	14889	1.11353	378.8330
9 Fluorene	166		5.145	5.145	(1.071)	19605	1.15937	394.4281
11 Phenanthrene	178		5.769	5.768	(1.003)	386600	12.9637	4410.3771
12 Anthracene	178		5.804	5.804	(1.009)	106568	3.65392	1243.0958

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910	(1.028)	54284	2.09381	712.3312
15 Fluoranthene	202	6.604	6.604	(1.148)	915684	28.0383	9538.8816
16 Pyrene	202	6.774	6.774	(0.881)	759086	23.5833	8023.2612
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	487982	14.1162	4802.4581
19 Chrysene	228	7.710	7.715	(1.002)	474347	13.7115	4664.7659
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	682812	21.8744	7441.8486(M)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.963)	193712	6.04935	2058.0435(QM)
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	415218	13.6944	4658.9723
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.129)	202872	7.11265	2419.7871(M)
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	77035	2.76119	939.3811
26 Benzo(g,h,i)perylene	276	10.374	10.386	(1.169)	298377	10.0002	3402.1527(M)

QC Flag Legend

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

Data File: 1CD01015.D

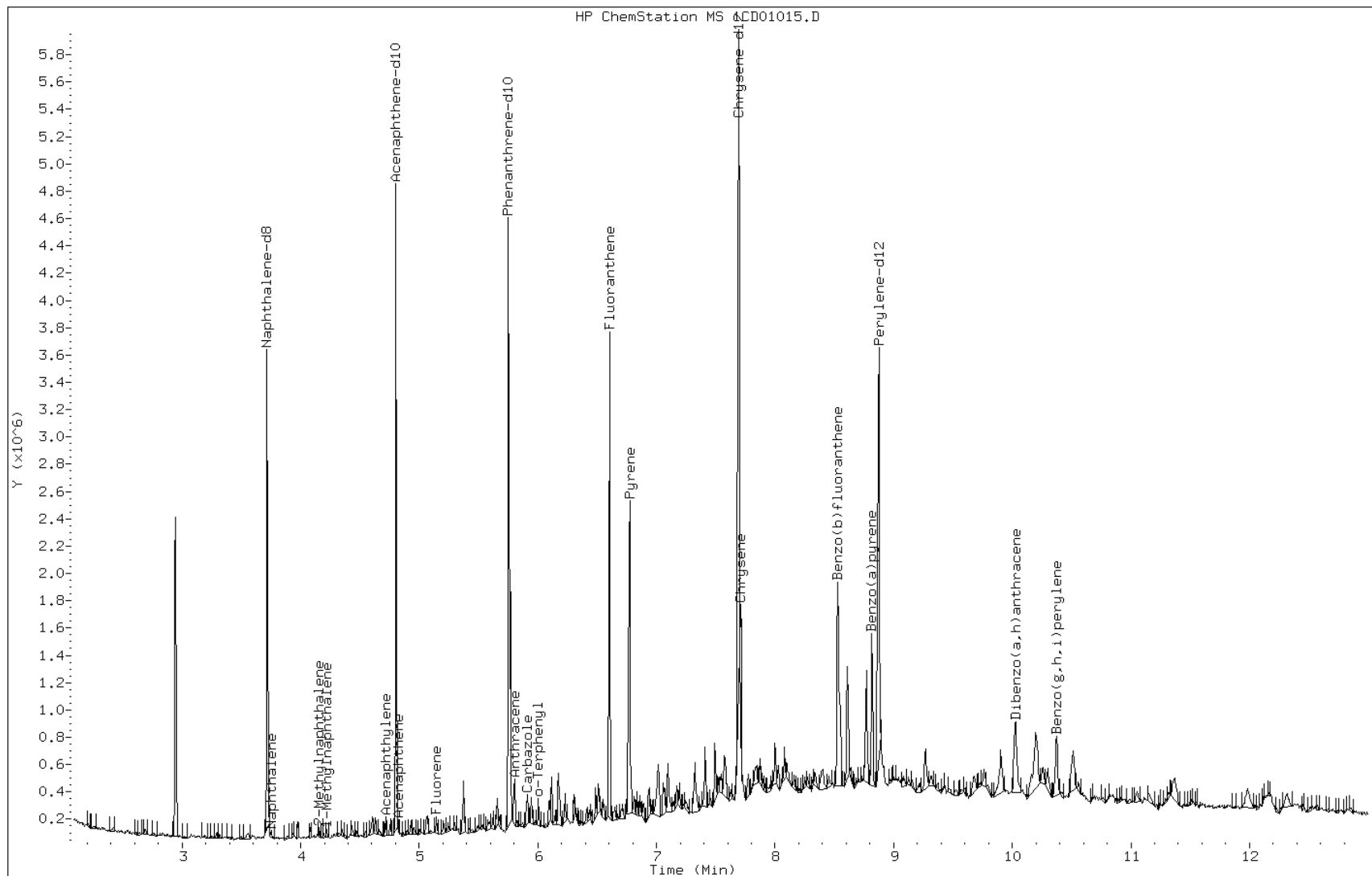
Date: 01-APR-2013 15:28

Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

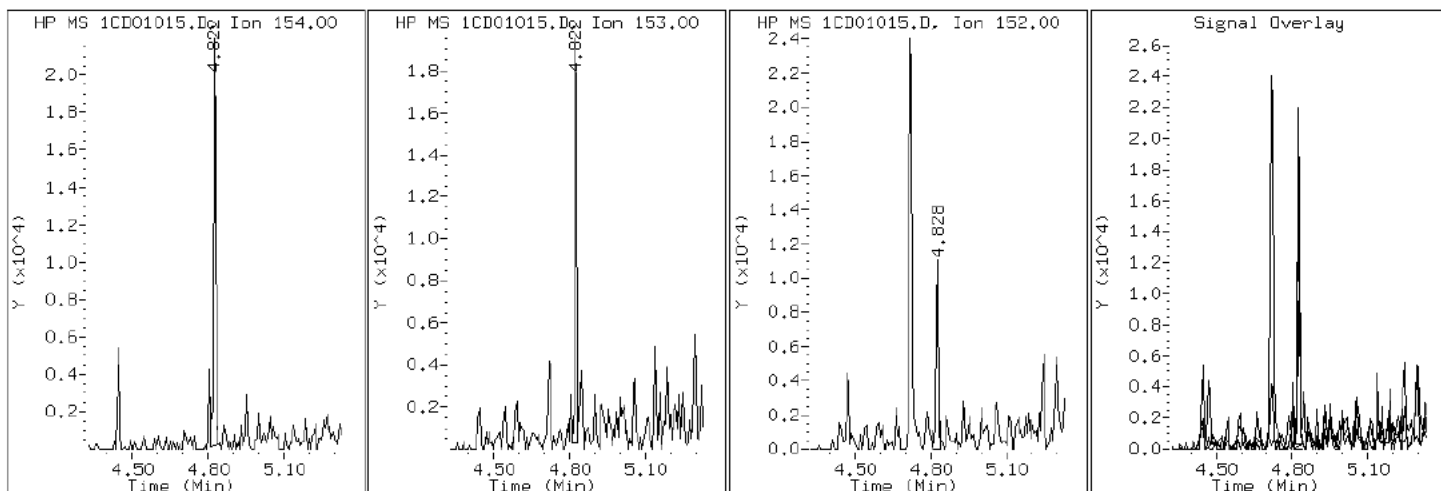
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

7 Acenaphthene





Data File: 1CD01015.D

Date: 01-APR-2013 15:28

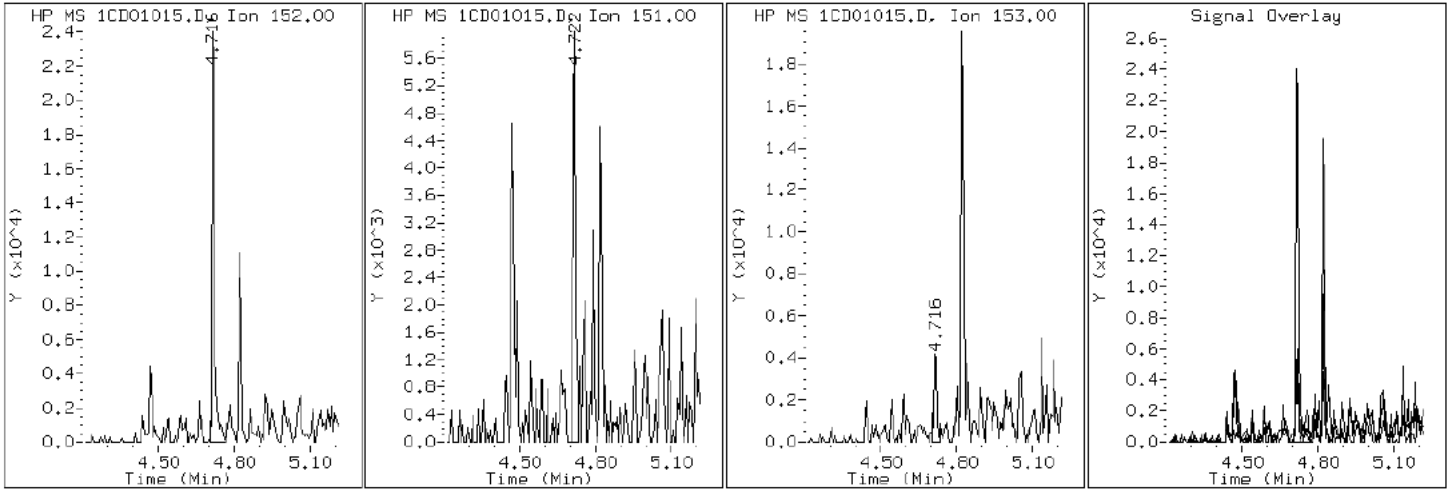
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

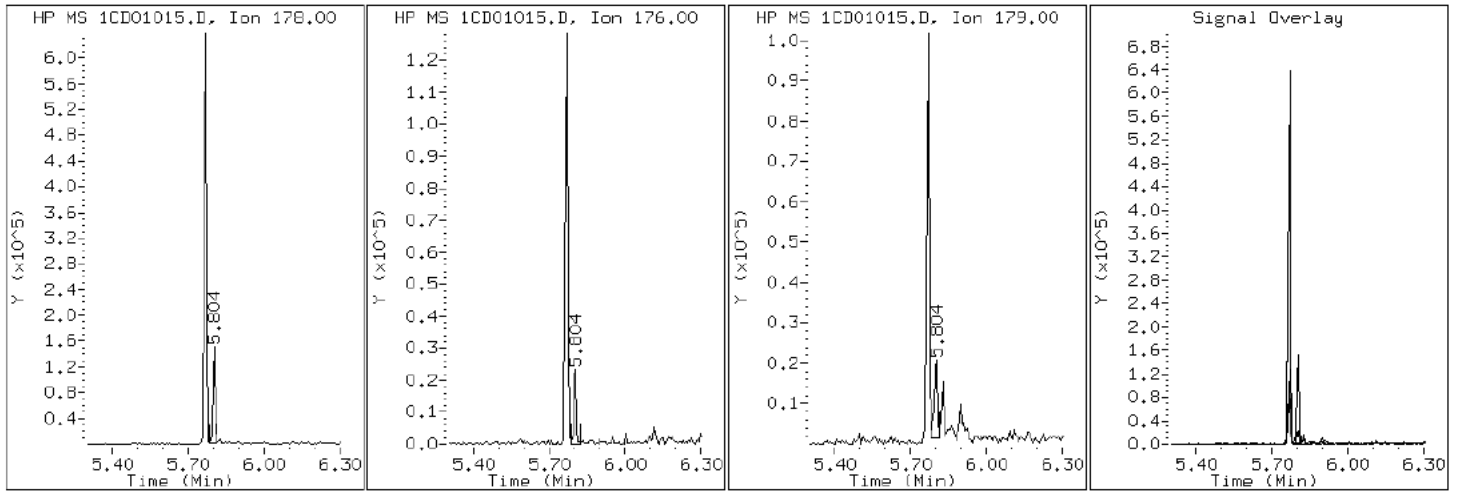
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

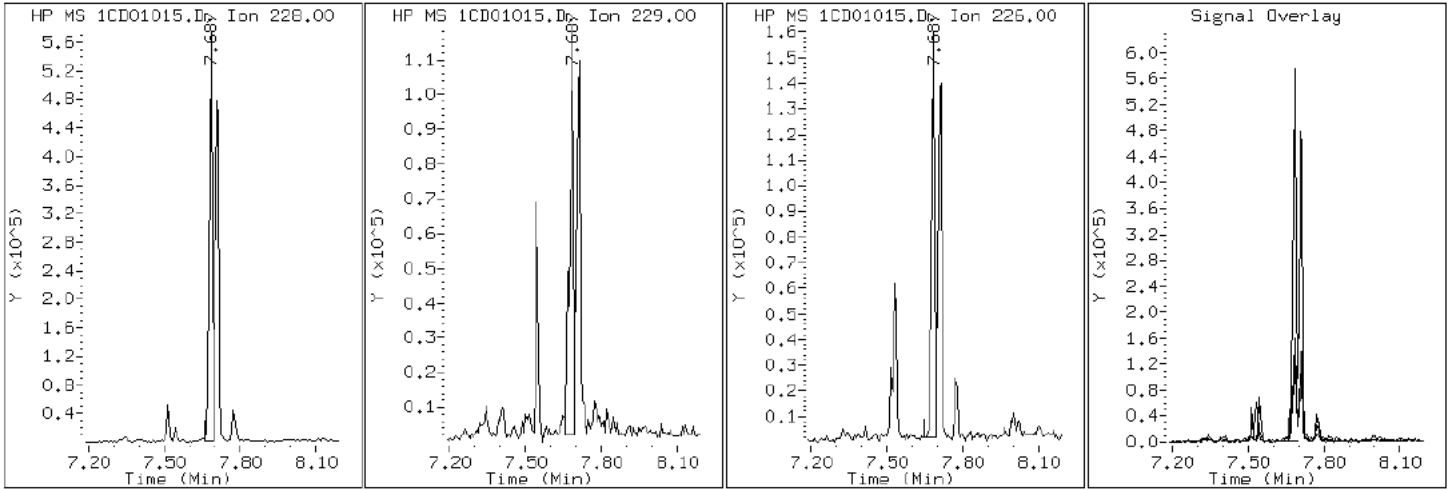
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

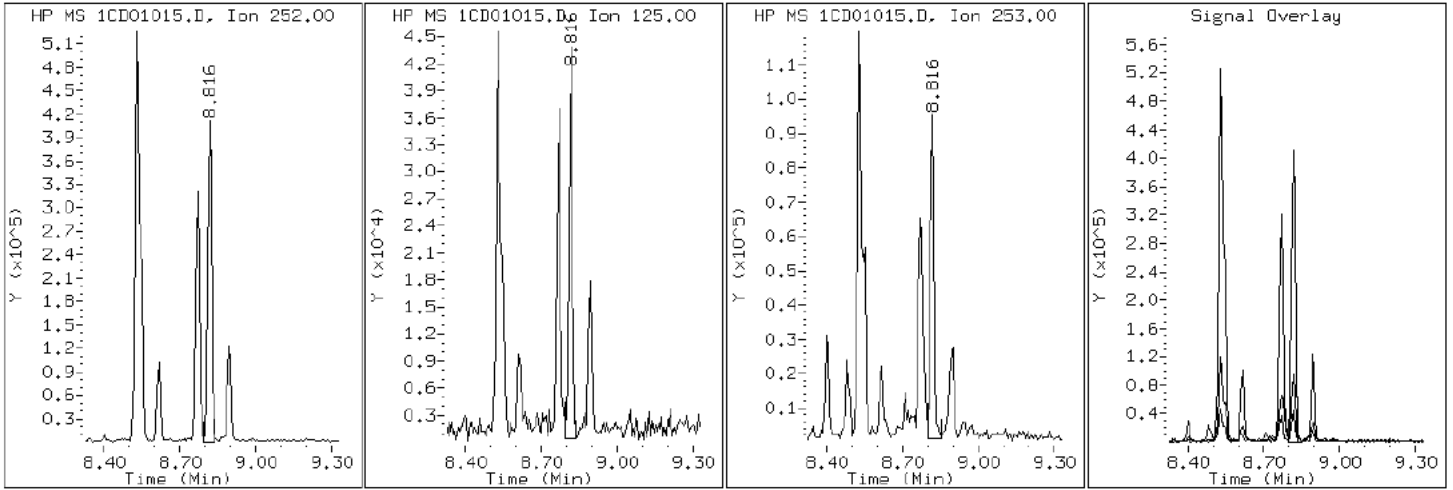
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

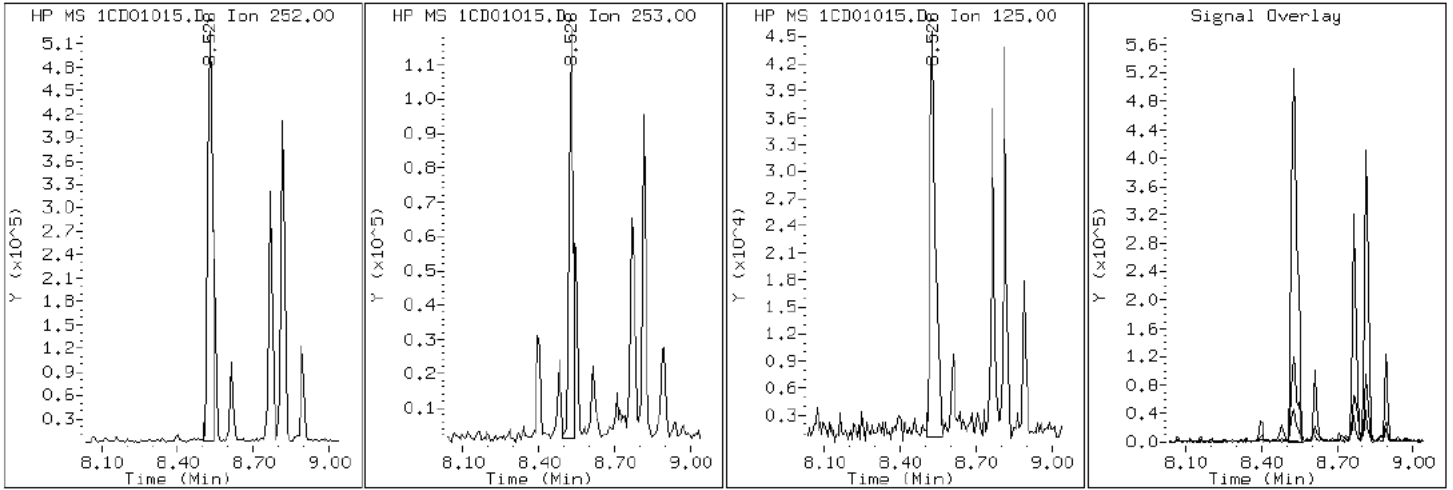
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

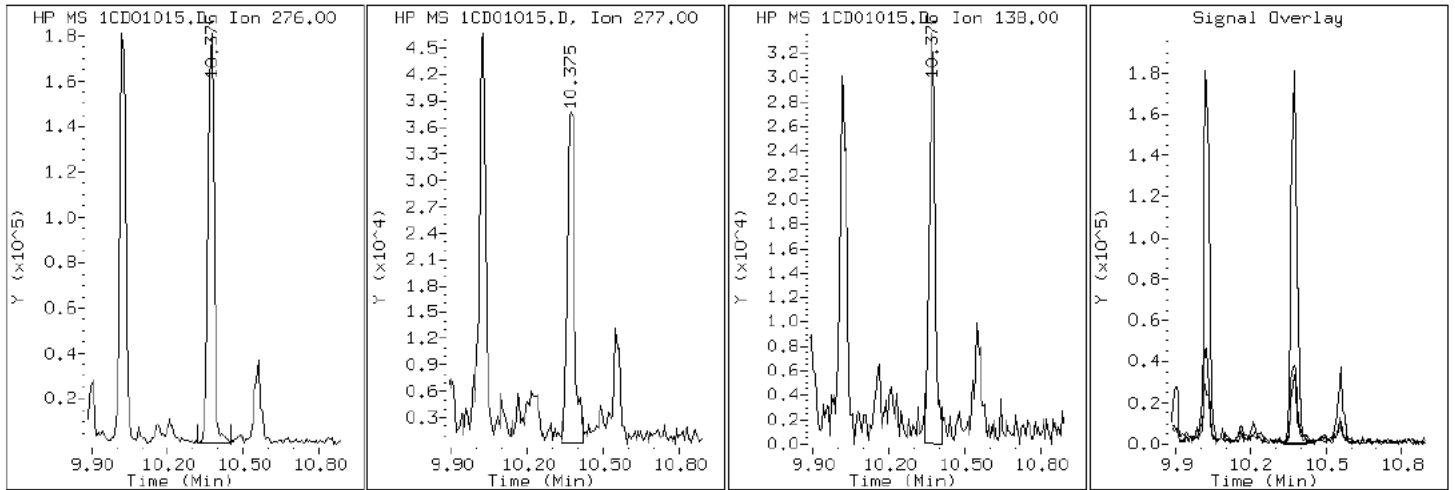
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

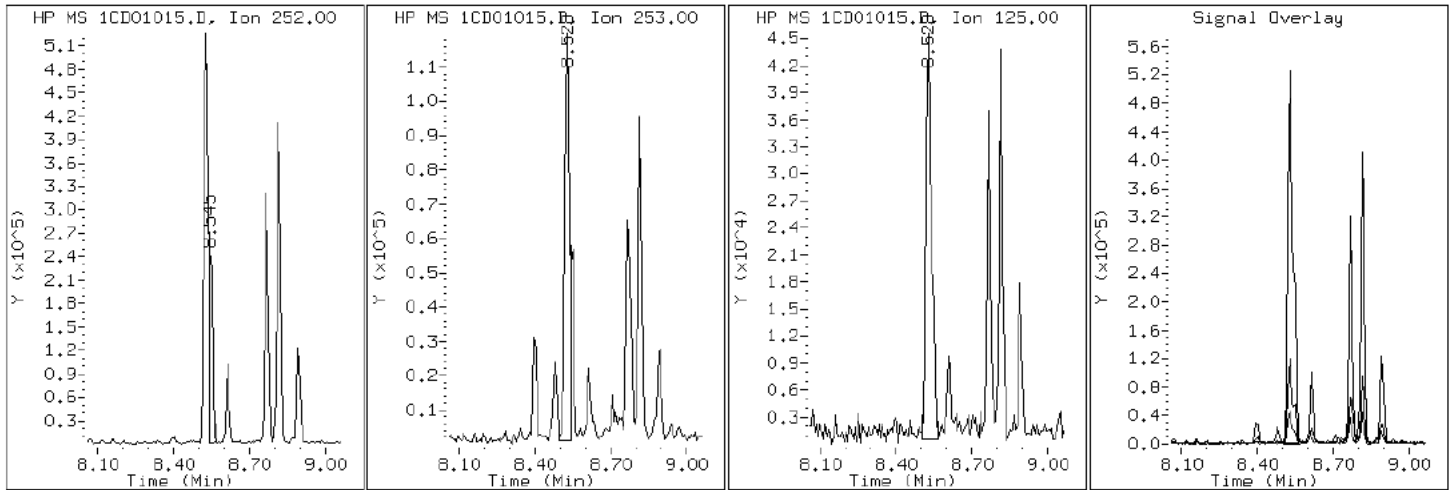
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

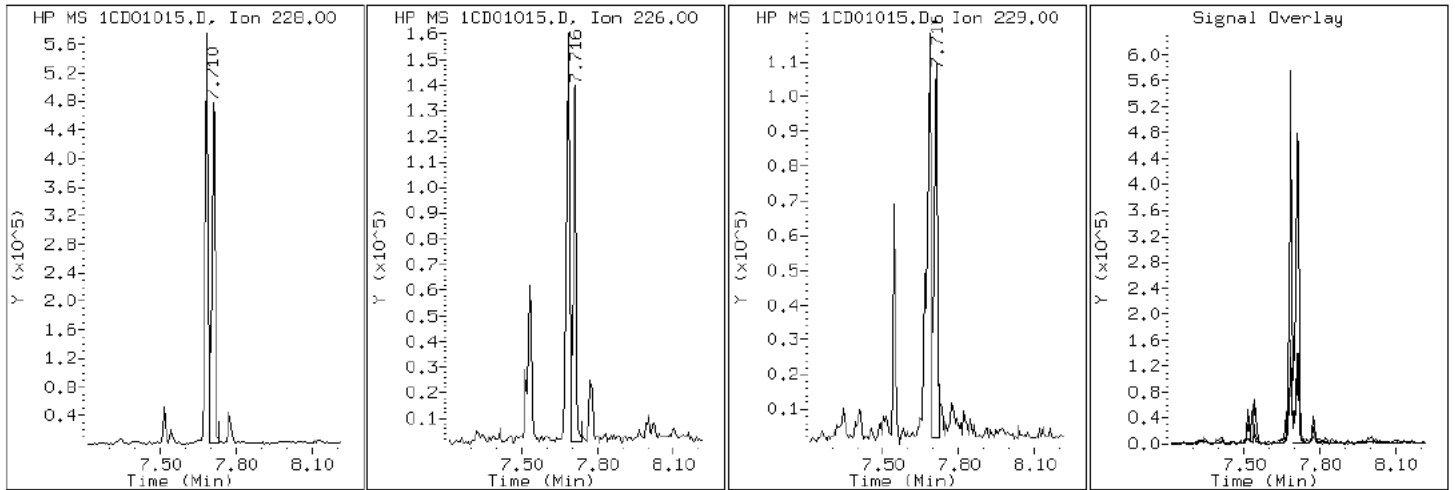
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

19 Chrysene





Data File: 1CD01015.D

Date: 01-APR-2013 15:28

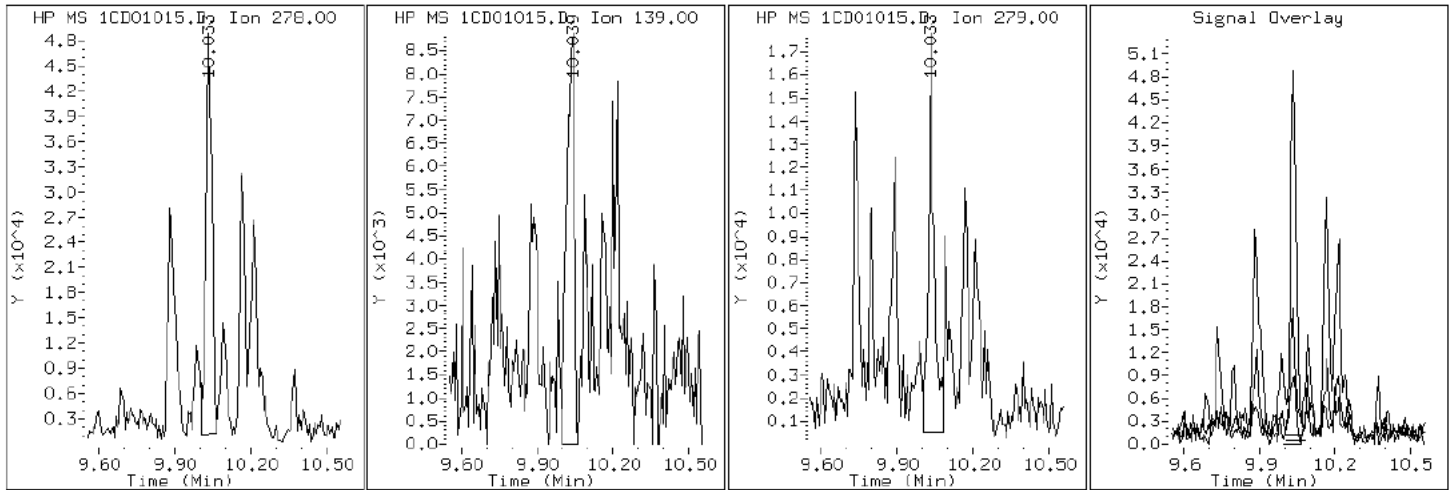
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

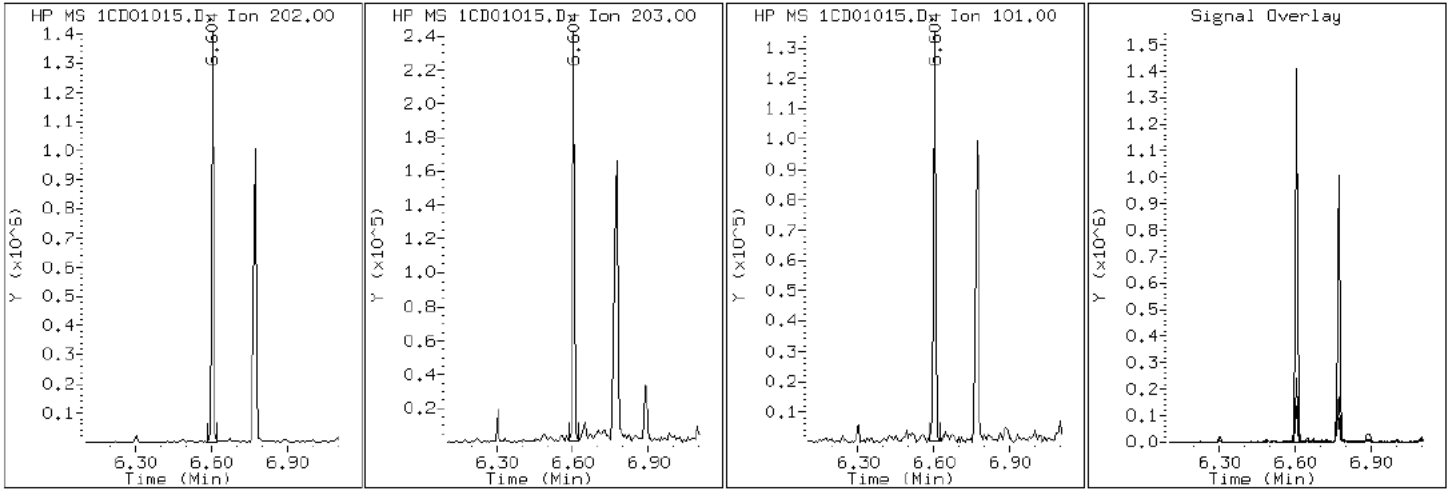
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

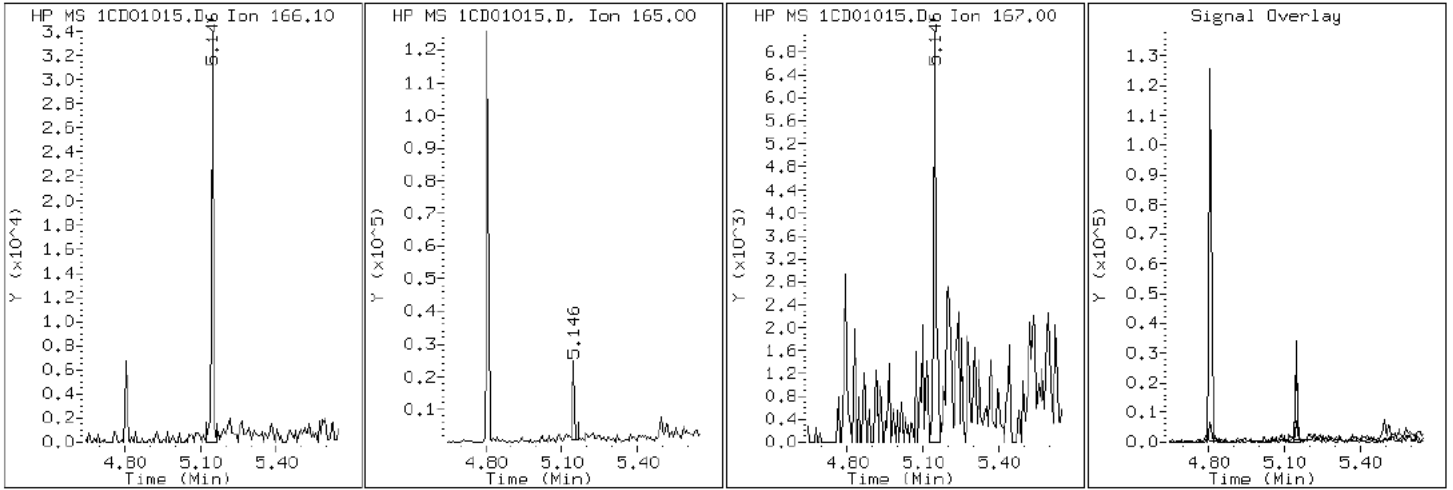
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

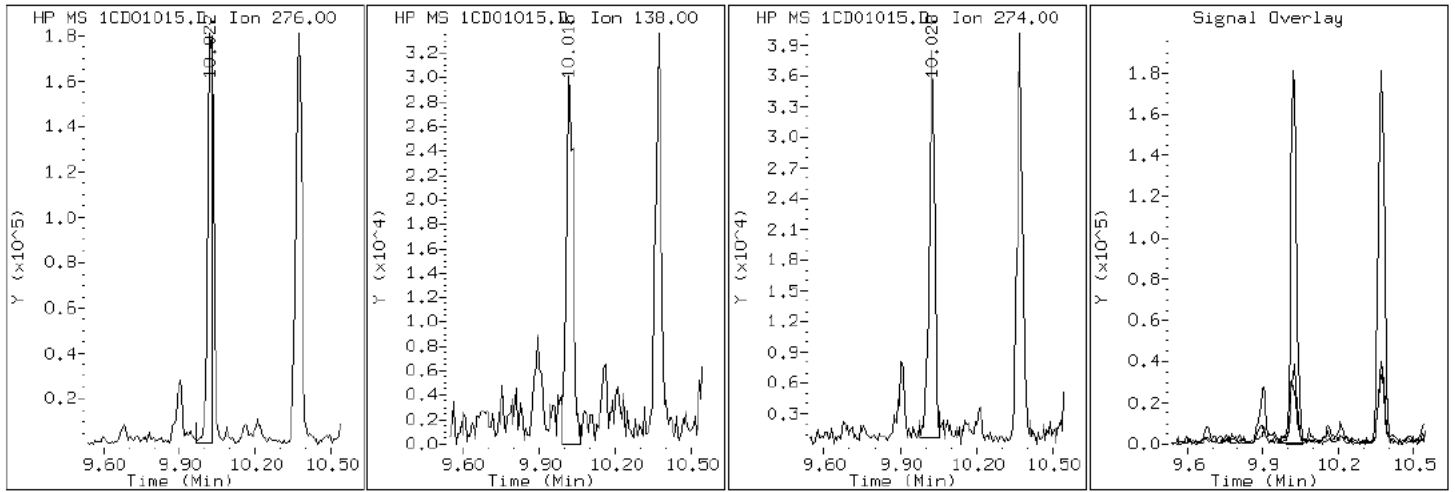
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

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



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

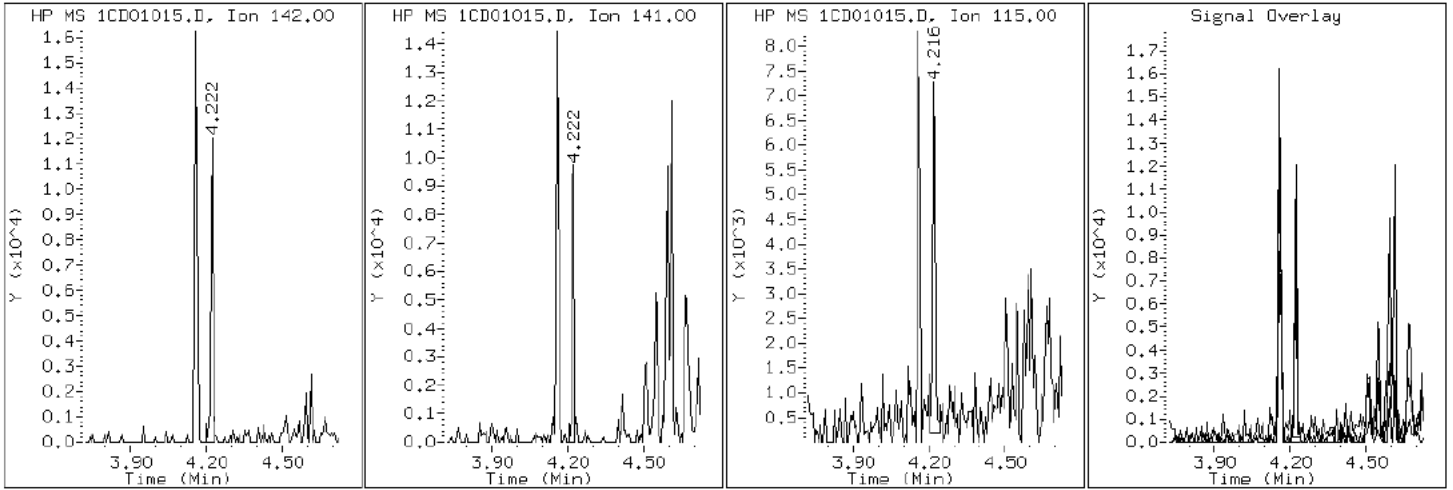
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

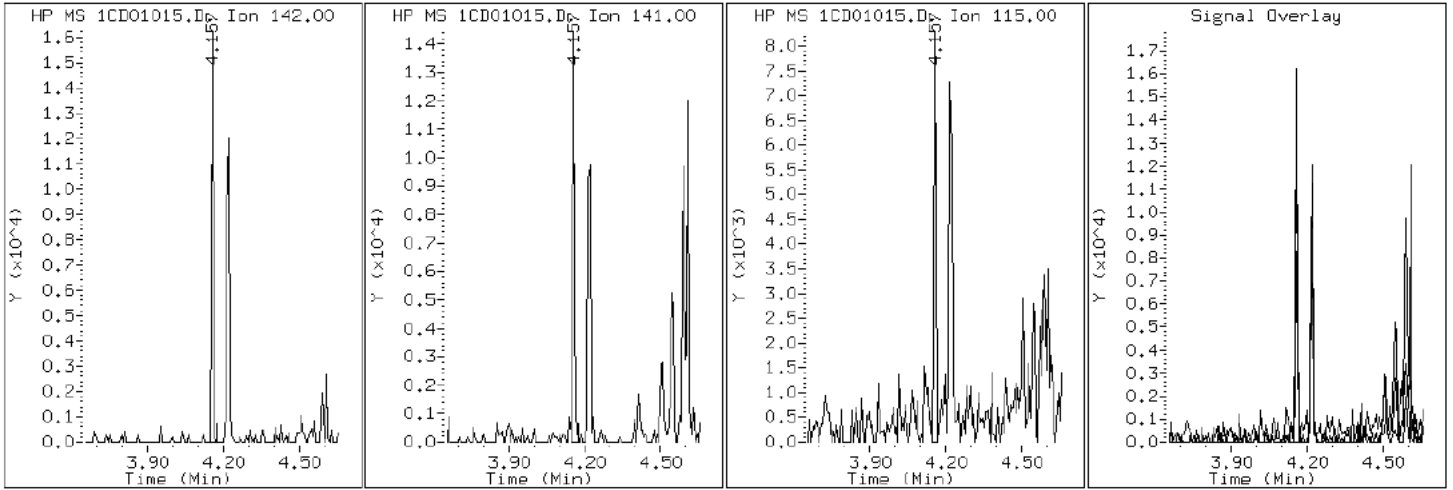
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

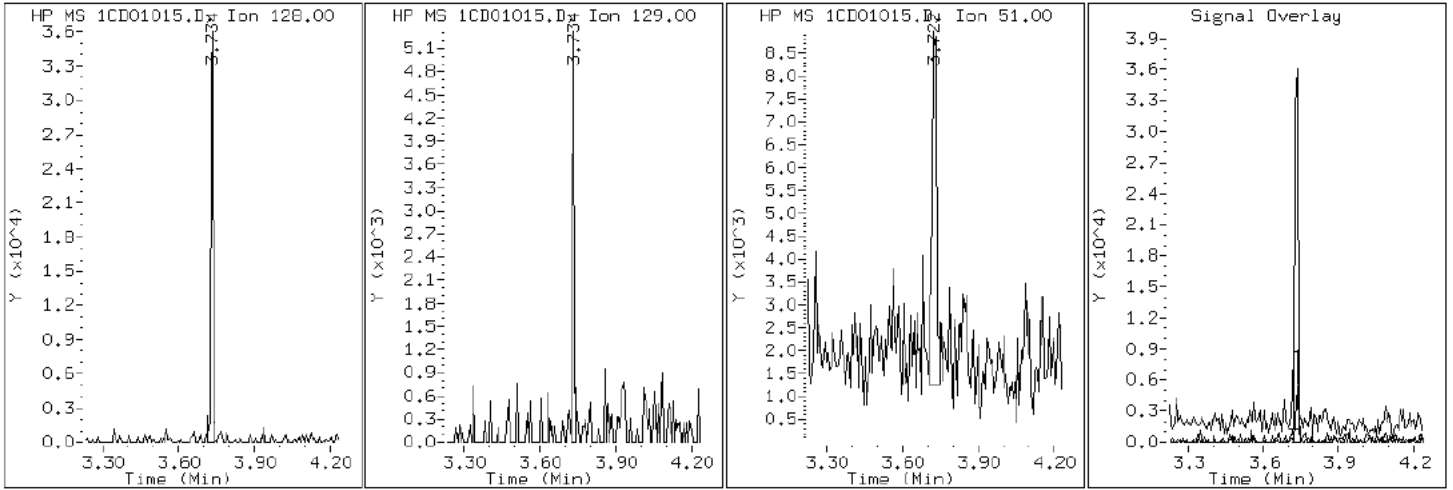
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1CD01015.D

Date: 01-APR-2013 15:28

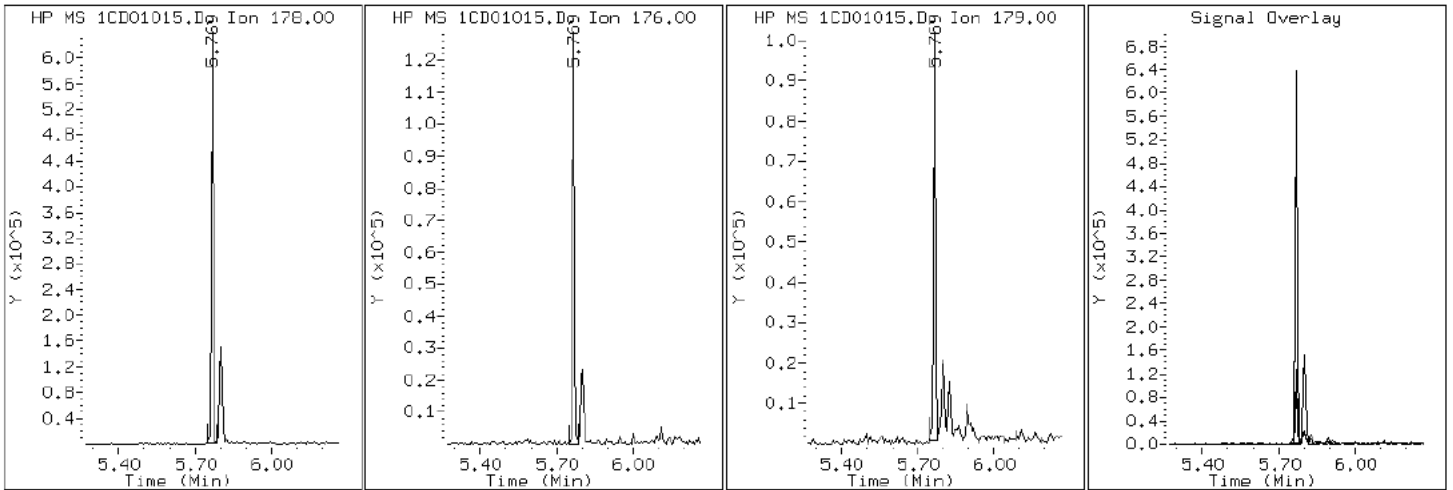
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

11 Phenanthrene





Data File: 1CD01015.D

Date: 01-APR-2013 15:28

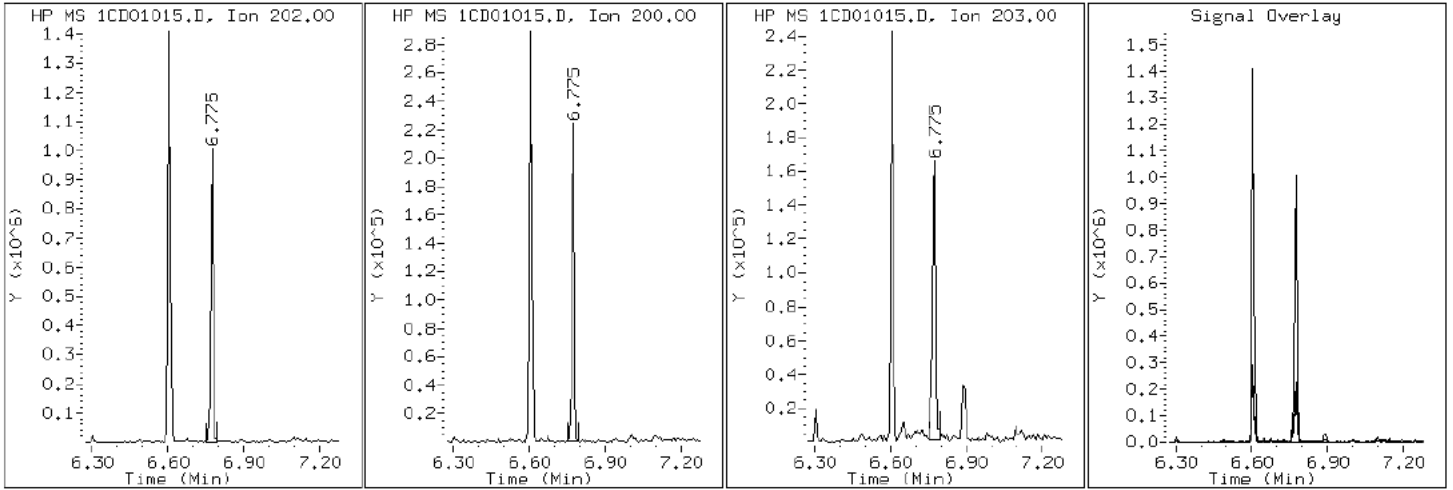
Client ID: CV0090B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-a

Operator: SCC

16 Pyrene

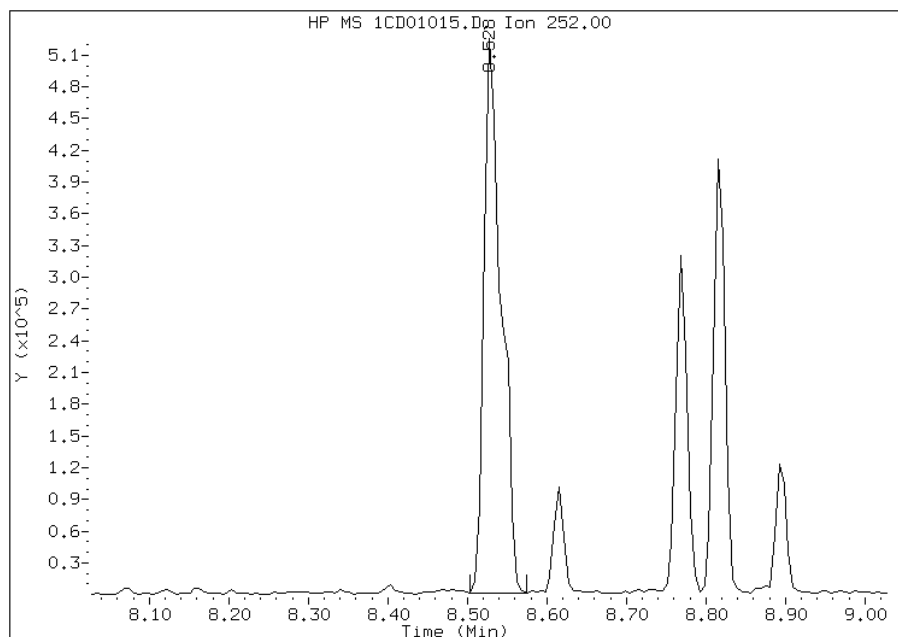


# Manual Integration Report

Data File: 1CD01015.D  
Inj. Date and Time: 01-APR-2013 15:28  
Instrument ID: BSMC5973.i  
Client ID: CV0090B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/03/2013

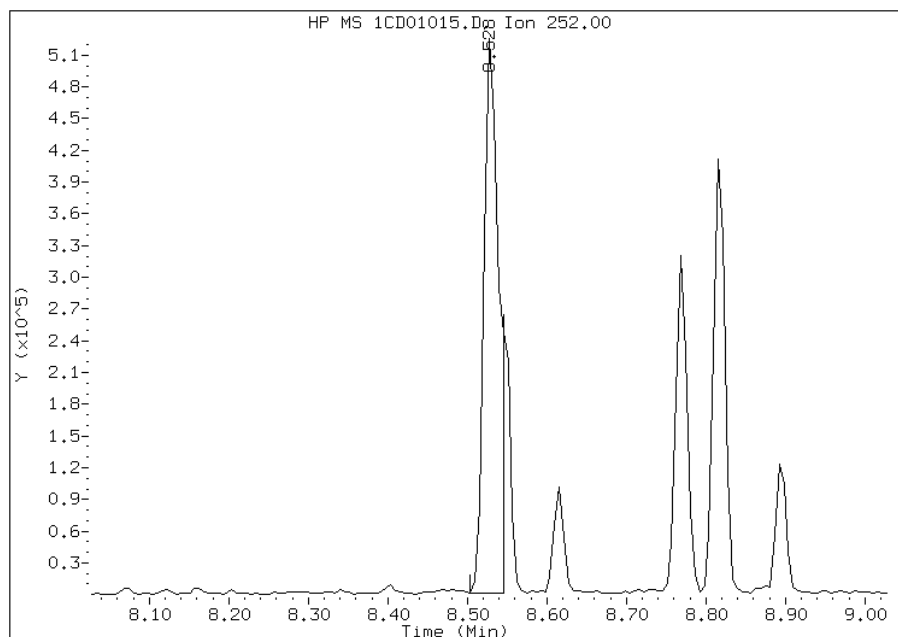
## Processing Integration Results

RT: 8.53  
Response: 791488  
Amount: 25  
Conc: 8626



## Manual Integration Results

RT: 8.53  
Response: 682812  
Amount: 22  
Conc: 7442



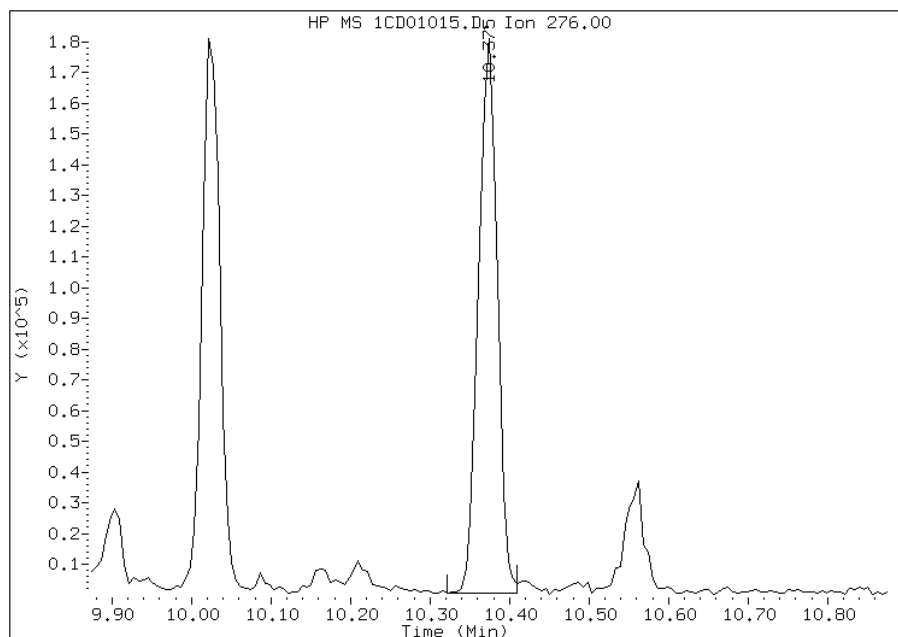
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:17  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CD01015.D  
Inj. Date and Time: 01-APR-2013 15:28  
Instrument ID: BSMC5973.i  
Client ID: CV0090B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/03/2013

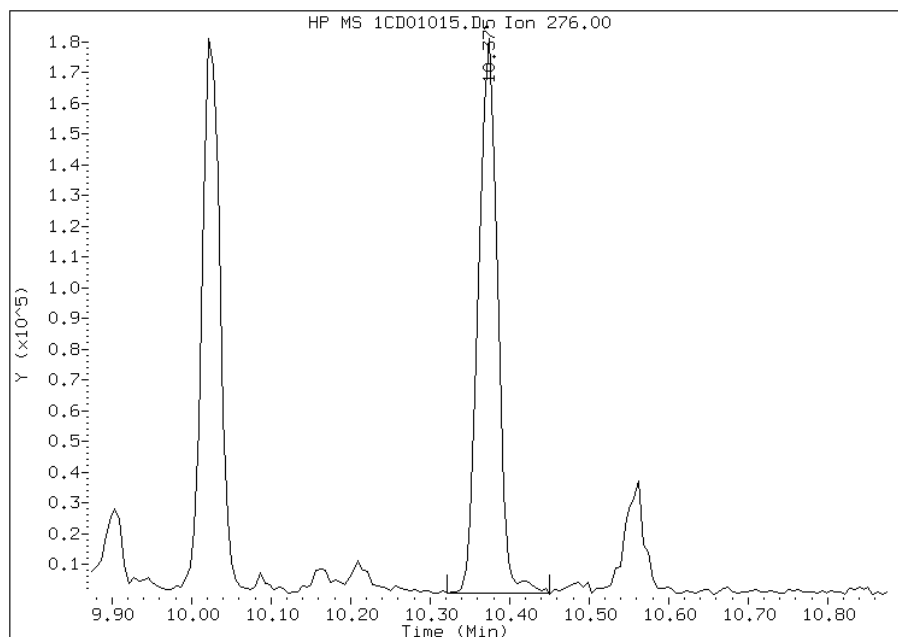
## Processing Integration Results

RT: 10.37  
Response: 293527  
Amount: 10  
Conc: 3347



## Manual Integration Results

RT: 10.37  
Response: 298377  
Amount: 10  
Conc: 3402



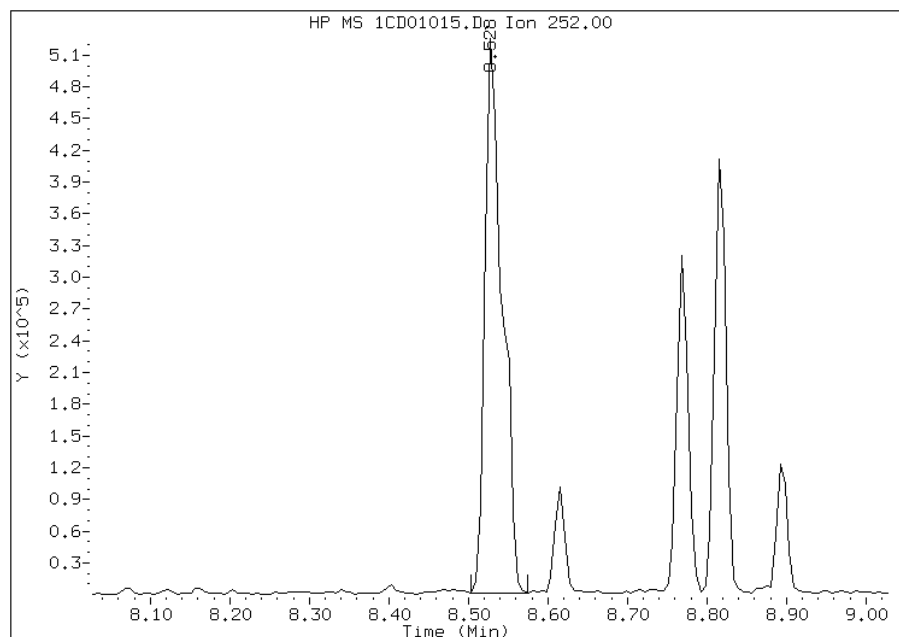
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD01015.D  
Inj. Date and Time: 01-APR-2013 15:28  
Instrument ID: BSMC5973.i  
Client ID: CV0090B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/03/2013

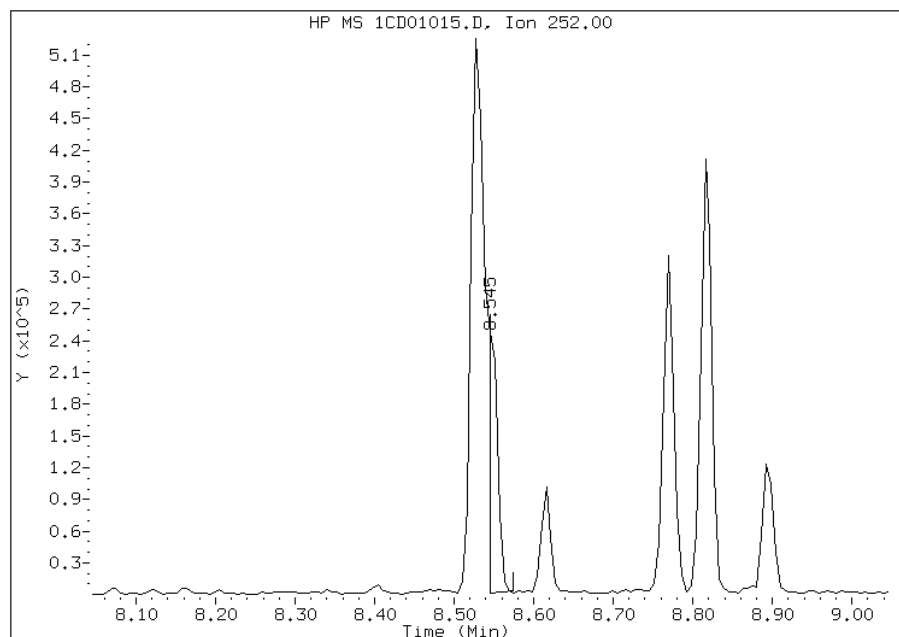
## Processing Integration Results

RT: 8.53  
Response: 794516  
Amount: 25  
Conc: 8441



## Manual Integration Results

RT: 8.55  
Response: 193712  
Amount: 6  
Conc: 2058



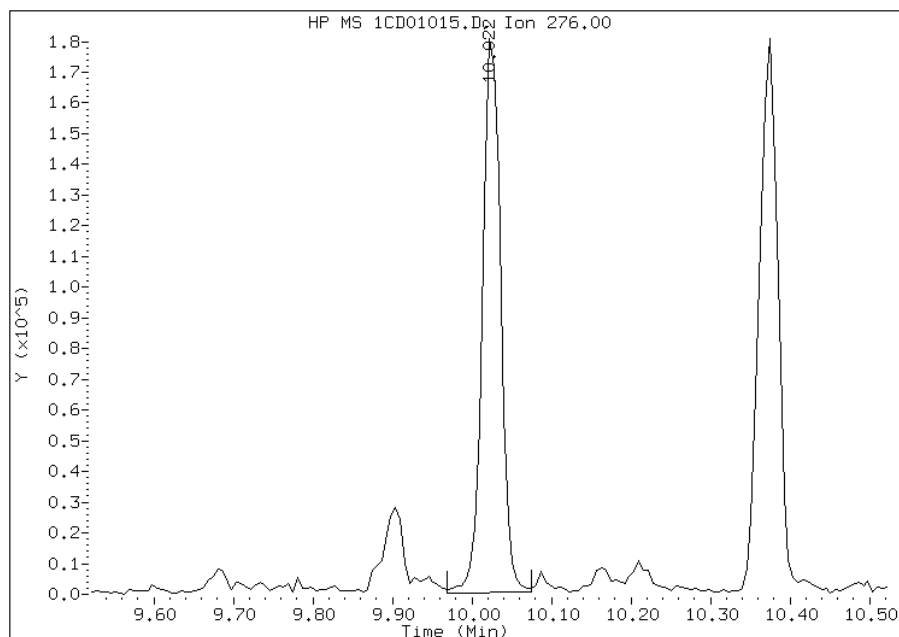
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CD01015.D  
Inj. Date and Time: 01-APR-2013 15:28  
Instrument ID: BSMC5973.i  
Client ID: CV0090B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/03/2013

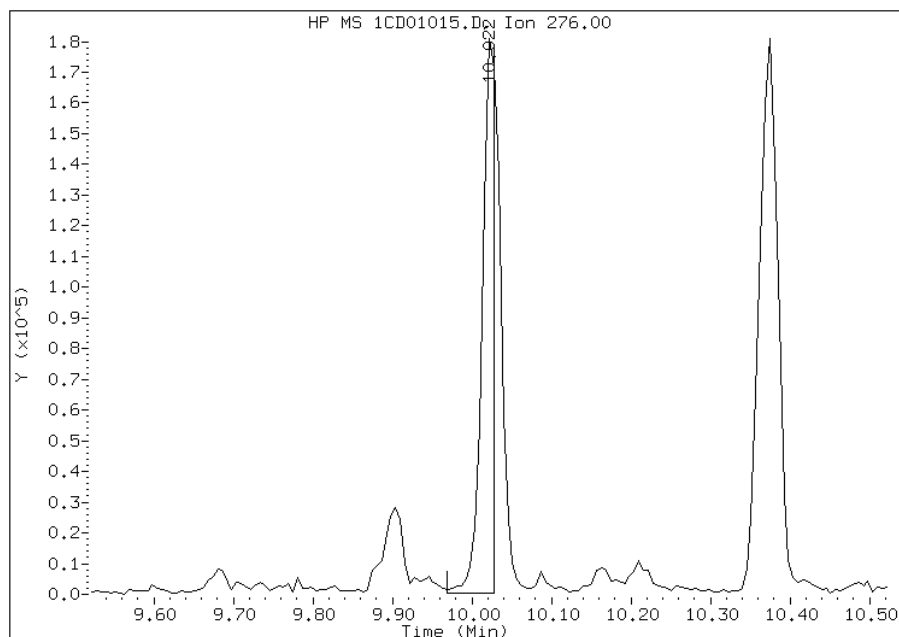
## Processing Integration Results

RT: 10.02  
Response: 286181  
Amount: 10  
Conc: 3413



## Manual Integration Results

RT: 10.02  
Response: 202872  
Amount: 7  
Conc: 2420



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:18  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0092A-CS-SP Lab Sample ID: 680-88632-11  
 Matrix: Solid Lab File ID: 1DC28022.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 10:46  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.80(g) Date Analyzed: 03/28/2013 19:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 15.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	95
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	40	U	40	20
56-55-3	Benzo[a]anthracene	71		38	19
50-32-8	Benzo[a]pyrene	69		50	25
205-99-2	Benzo[b]fluoranthene	120		58	29
191-24-2	Benzo[g,h,i]perylene	55	J	95	21
207-08-9	Benzo[k]fluoranthene	46		38	17
218-01-9	Chrysene	110		43	21
53-70-3	Dibenz(a,h)anthracene	95	U	95	20
206-44-0	Fluoranthene	120		95	19
86-73-7	Fluorene	95	U	95	20
193-39-5	Indeno[1,2,3-cd]pyrene	49	J	95	34
90-12-0	1-Methylnaphthalene	40	J	190	21
91-57-6	2-Methylnaphthalene	36	J	190	34
91-20-3	Naphthalene	32	J	190	21
85-01-8	Phenanthrene	87		38	19
129-00-0	Pyrene	93	J	95	18

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28022.D  
 Lab Smp Id: 680-88632-A-11-A Client Smp ID: CV0092A-CS-SP  
 Inj Date : 28-MAR-2013 19:50  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-11-A  
 Misc Info : 680-88632-A-11-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 22  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.800	Weight Extracted
M	14.957	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN ( ug/l)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136		6.109	6.102	(1.000)	3751899	40.0000	
* 6 Acenaphthene-d10	164		7.783	7.777	(1.000)	2415372	40.0000	
* 9 Phenanthrene-d10	188		9.047	9.040	(1.000)	3995465	40.0000	
\$ 13 o-Terphenyl	230		9.346	9.351	(1.033)	100180	1.62140	520
* 17 Chrysene-d12	240		11.373	11.373	(1.000)	4224529	40.0000	
* 22 Perylene-d12	264		13.230	13.223	(1.000)	4223931	40.0000	
2 Naphthalene	128		6.127	6.126	(1.003)	10095	0.10058	32
3 2-Methylnaphthalene	142		6.826	6.825	(1.117)	7146	0.11177	36
4 1-Methylnaphthalene	142		6.920	6.919	(1.133)	7450	0.12444	40
5 Acenaphthylene	152		7.654	7.653	(0.983)	4272	0.04012	13
10 Phenanthrene	178		9.058	9.064	(1.001)	31203	0.27511	87
11 Anthracene	178		9.100	9.099	(1.006)	6185	0.05450	17
12 Carbazole	167		9.241	9.240	(1.021)	4932	0.04862	15
14 Fluoranthene	202		10.040	10.045	(1.110)	43726	0.36943	120

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
15 Pyrene	202	10.228	10.233	(0.899)	38441	0.29335	93
16 Benzo(a)anthracene	228	11.350	11.349	(0.998)	25938	0.22426	71
18 Chrysene	228	11.391	11.396	(1.002)	41964	0.35144	110
19 Benzo(b)fluoranthene	252	12.660	12.671	(0.957)	42239	0.38850	120
20 Benzo(k)fluoranthene	252	12.695	12.712	(0.960)	16614	0.14595	46(H)
21 Benzo(a)pyrene	252	13.113	13.124	(0.991)	23229	0.21590	69
23 Indeno(1,2,3-cd)pyrene	276	14.811	14.827	(1.119)	17643	0.15366	49(M)
24 Dibenzo(a,h)anthracene	278	14.846	14.863	(1.122)	4931	0.04650	15(MH)
25 Benzo(g,h,i)perylene	276	15.257	15.280	(1.153)	19049	0.17401	55(MH)

QC Flag Legend

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



Data File: 1DC28022.D

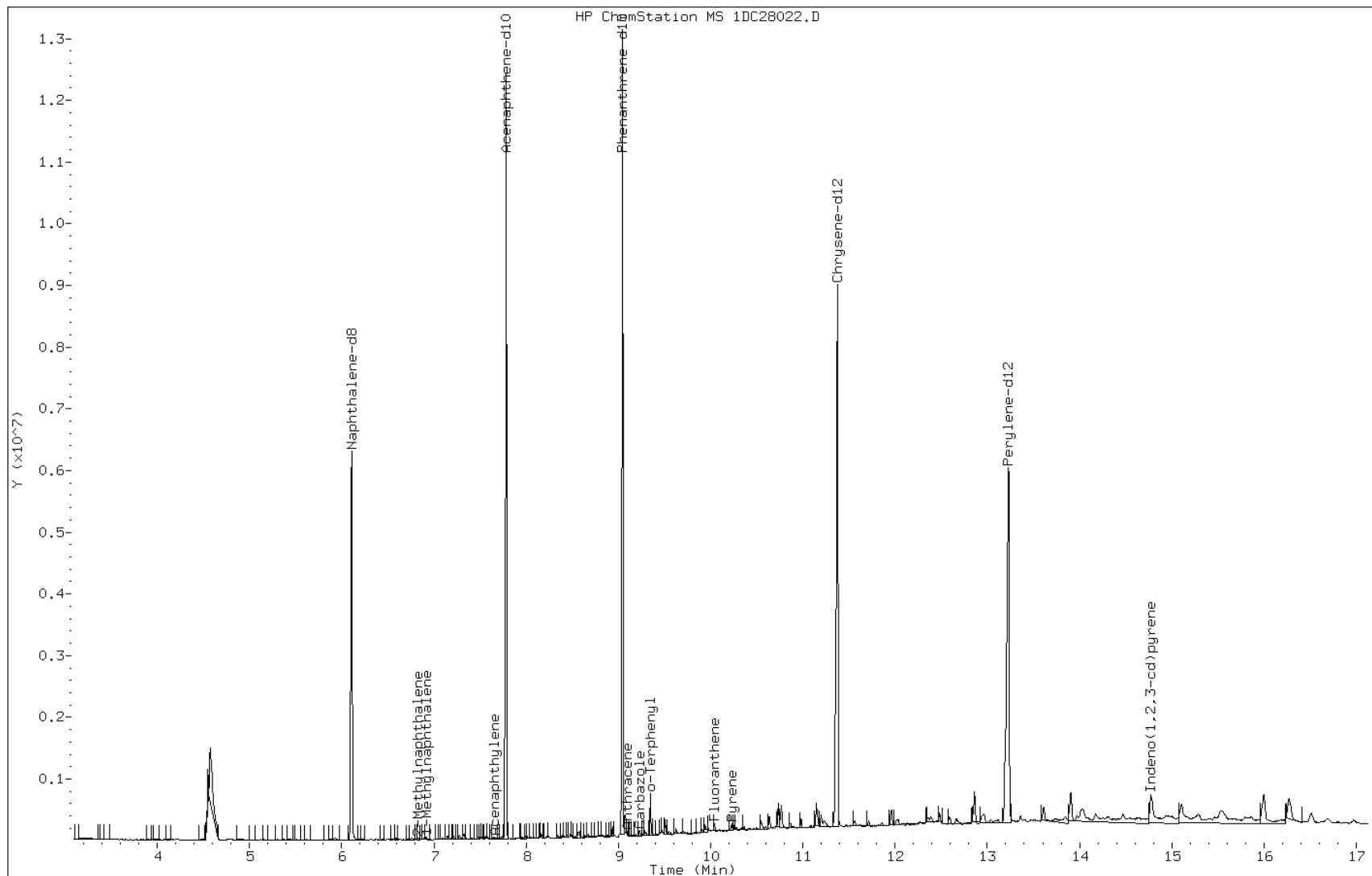
Date: 28-MAR-2013 19:50

Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

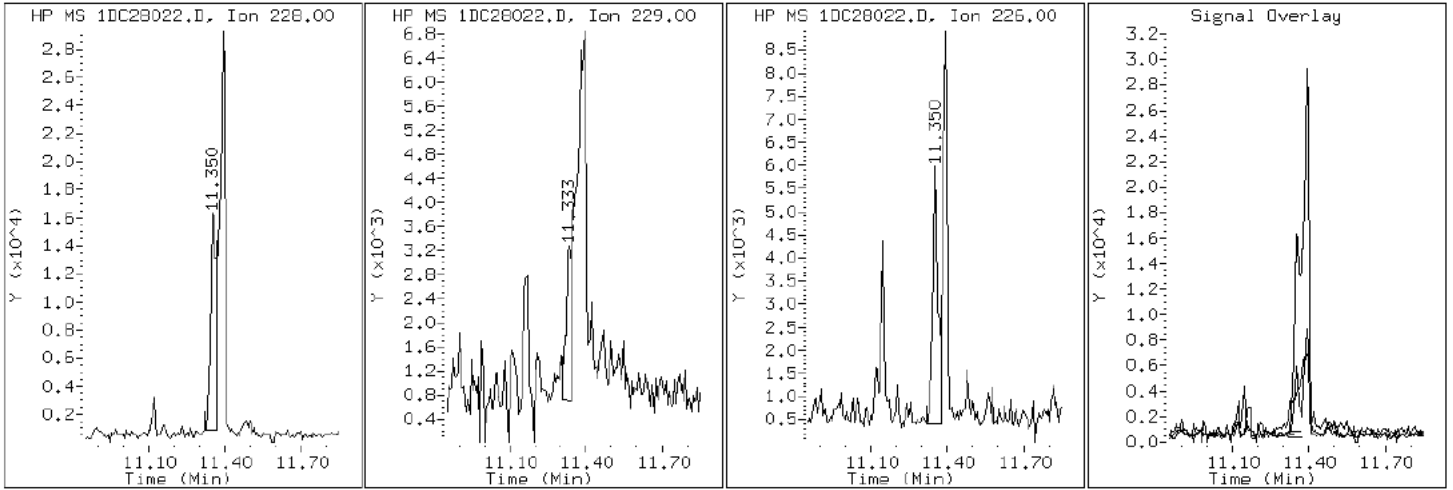
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

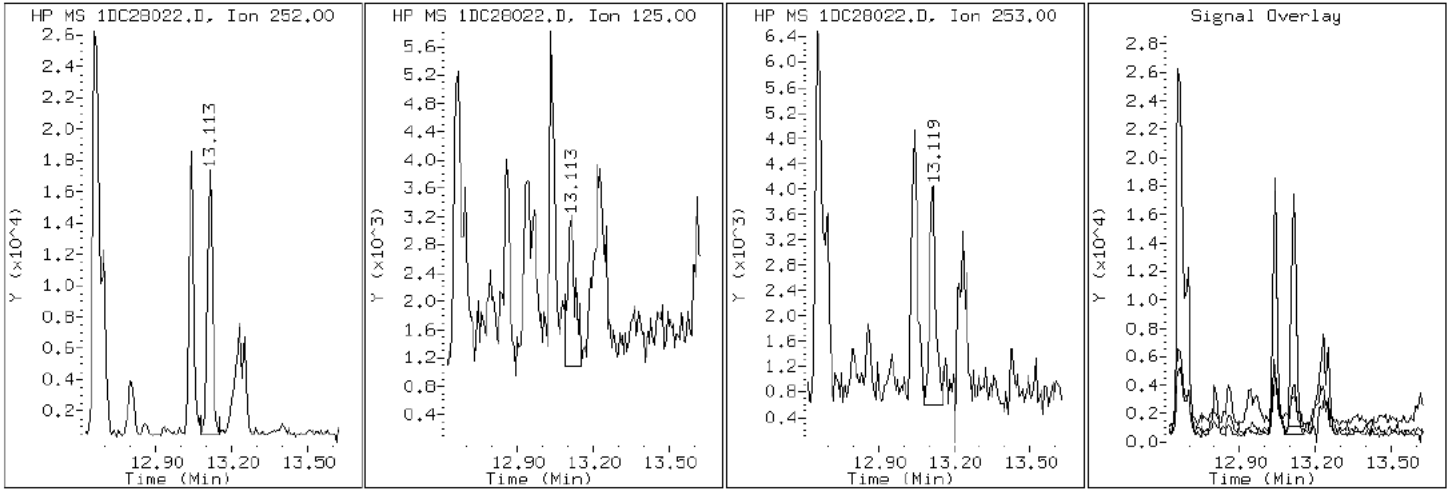
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

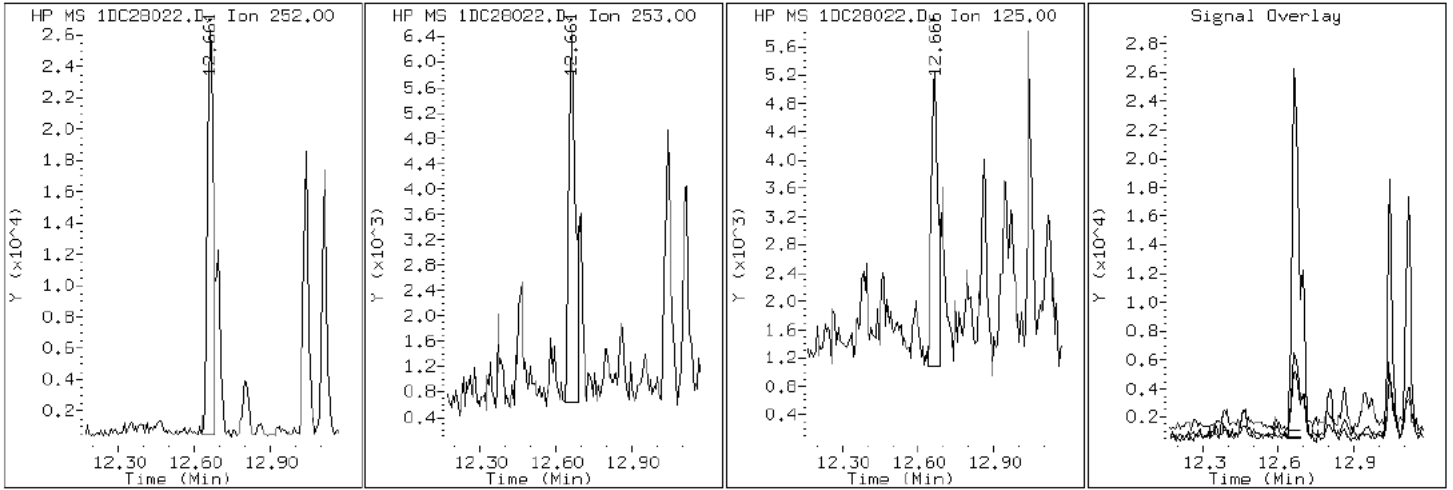
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

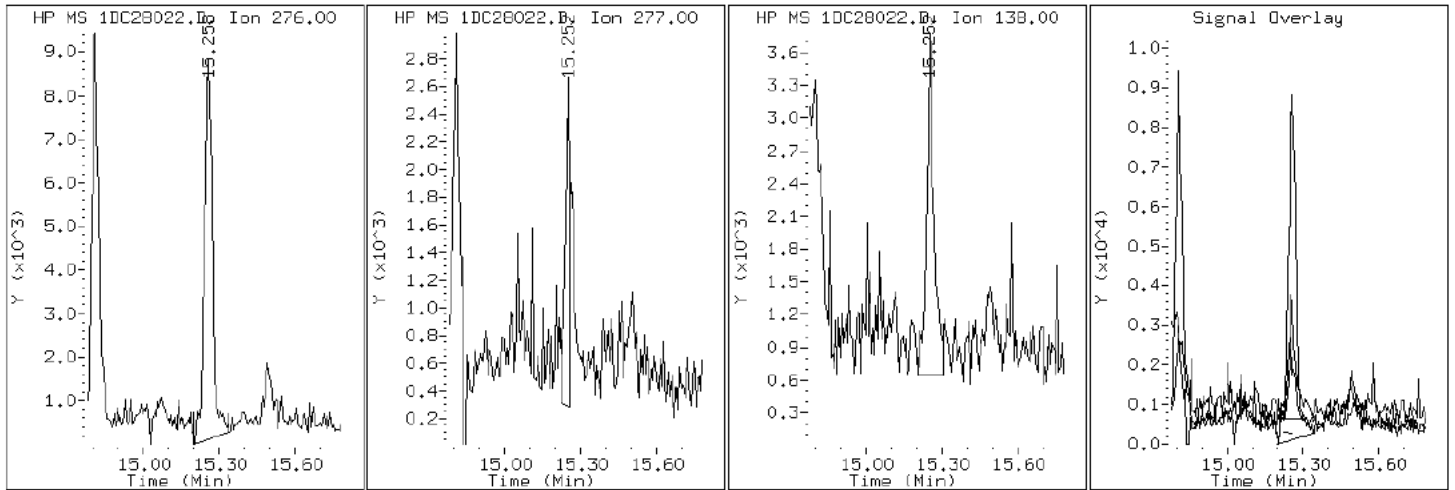
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

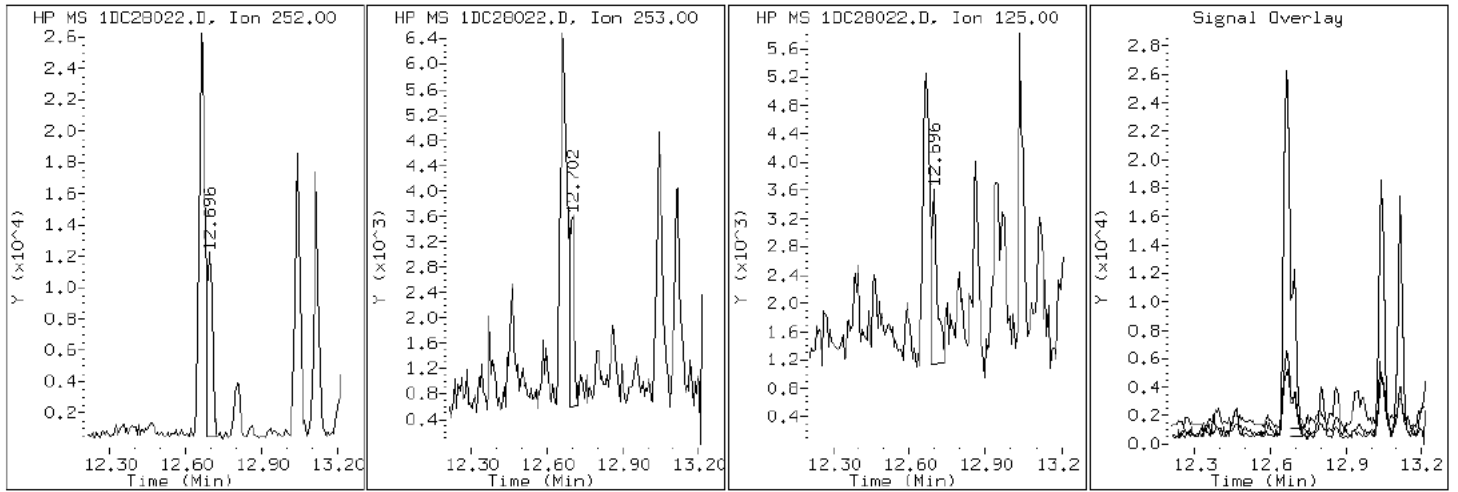
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

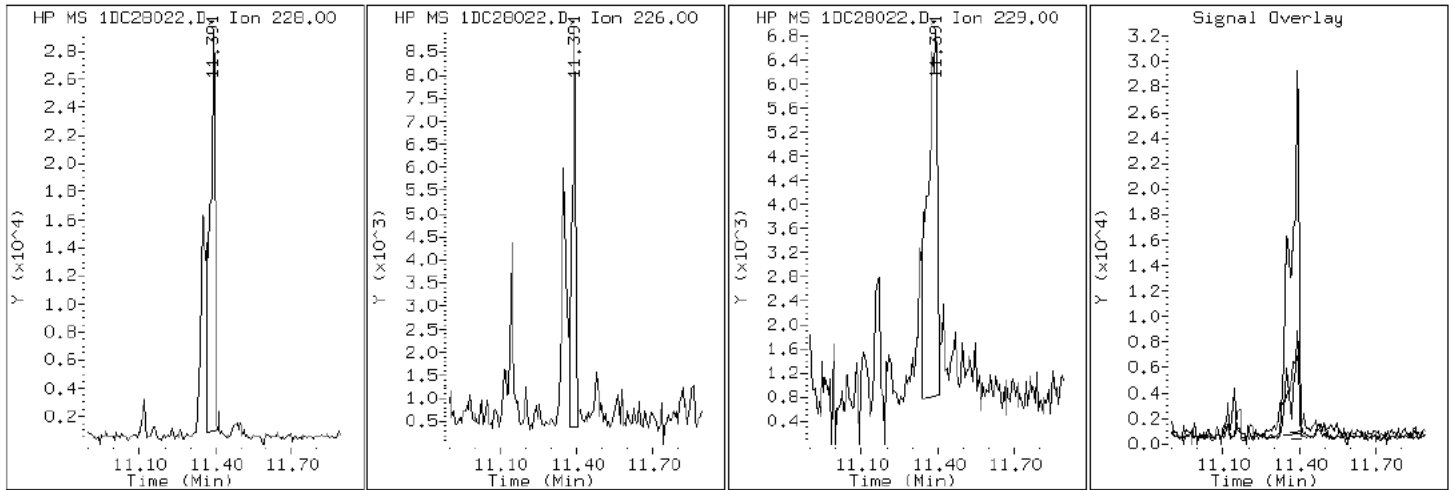
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

18 Chrysene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

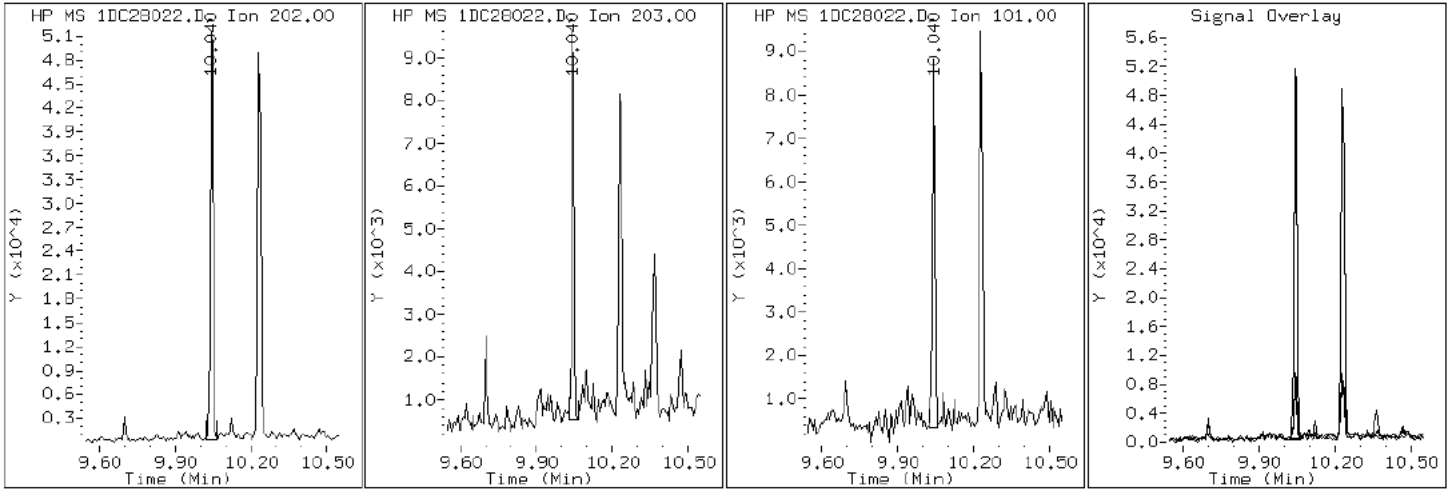
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

14 Fluoranthene





Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

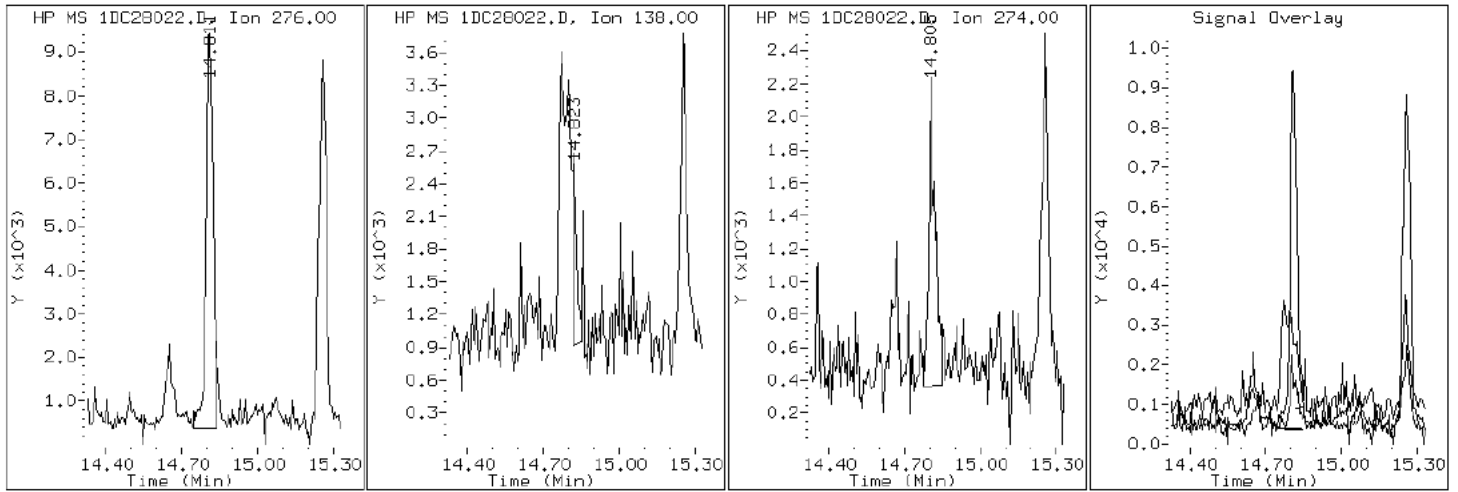
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

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



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

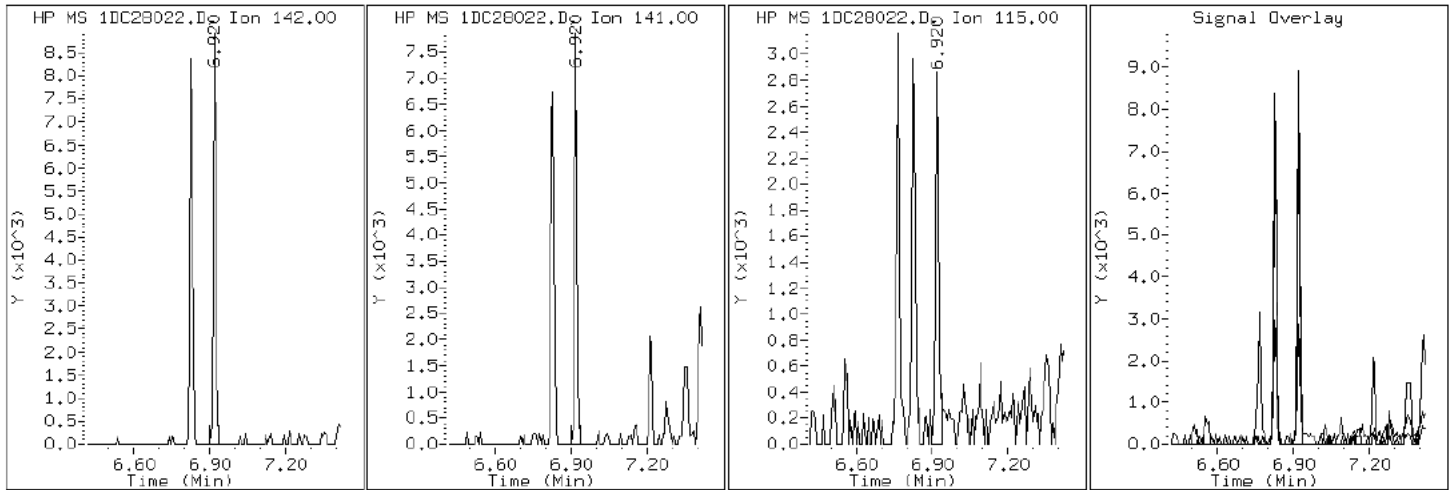
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

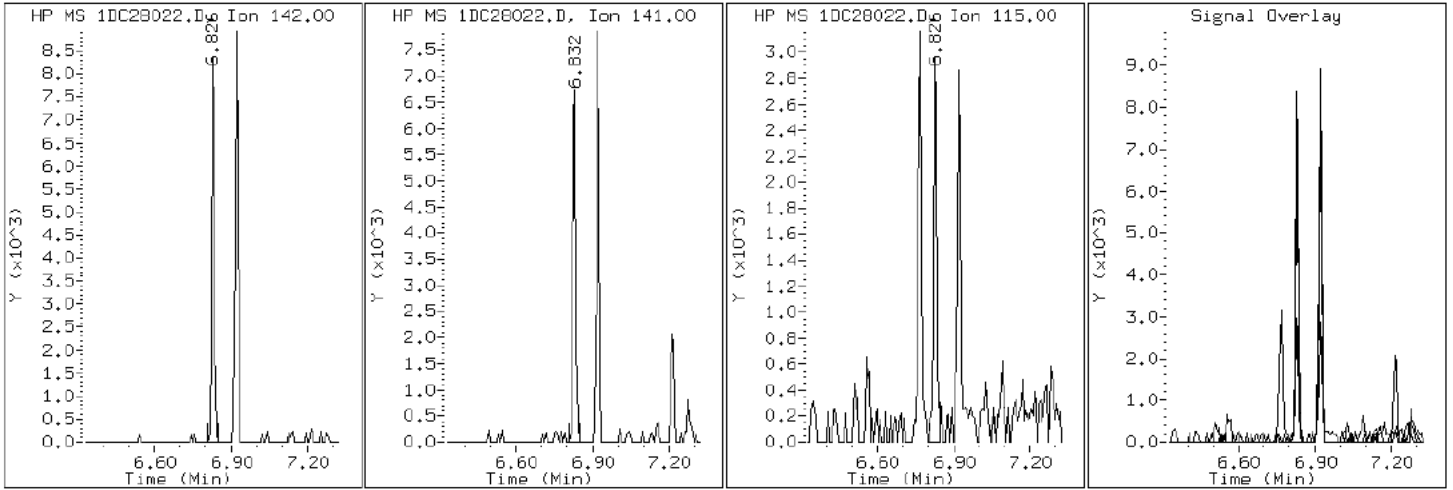
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

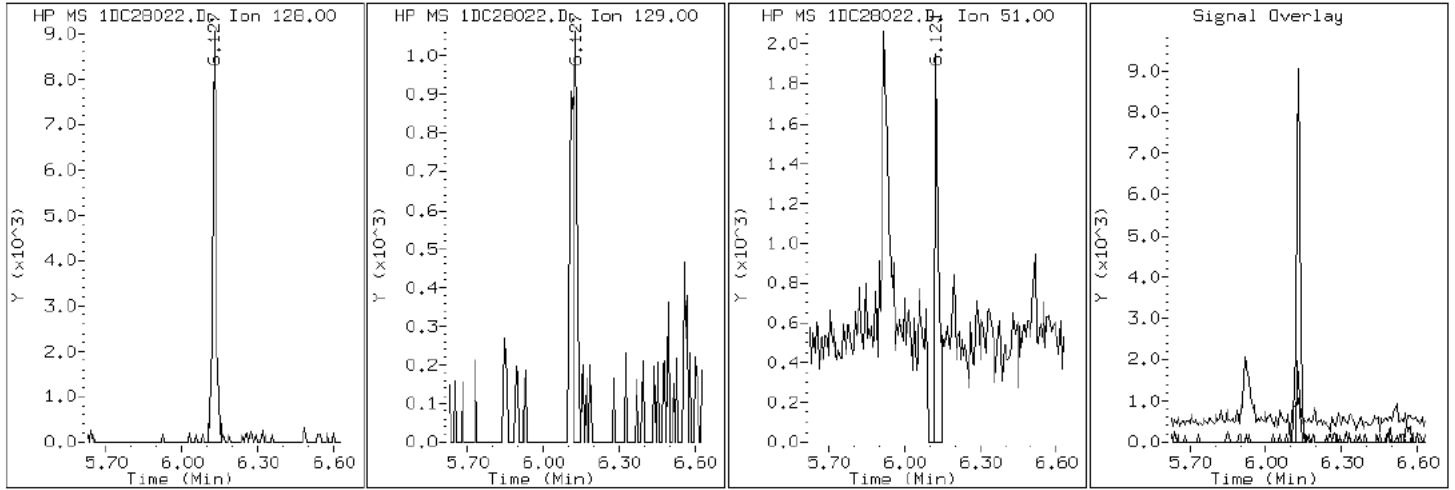
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

2 Naphthalene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

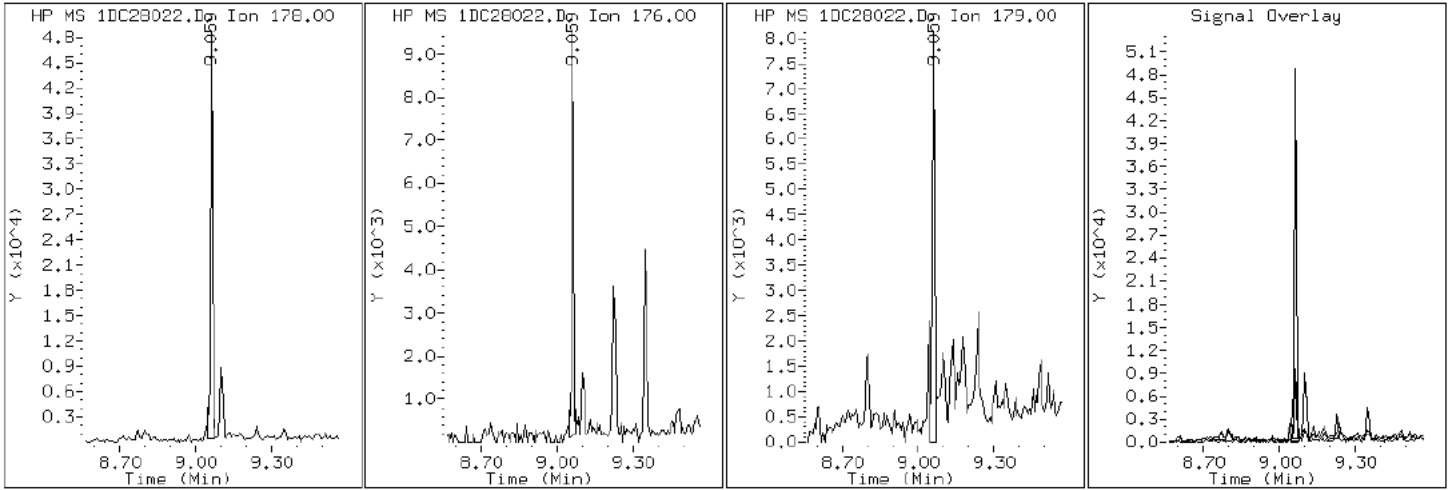
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28022.D

Date: 28-MAR-2013 19:50

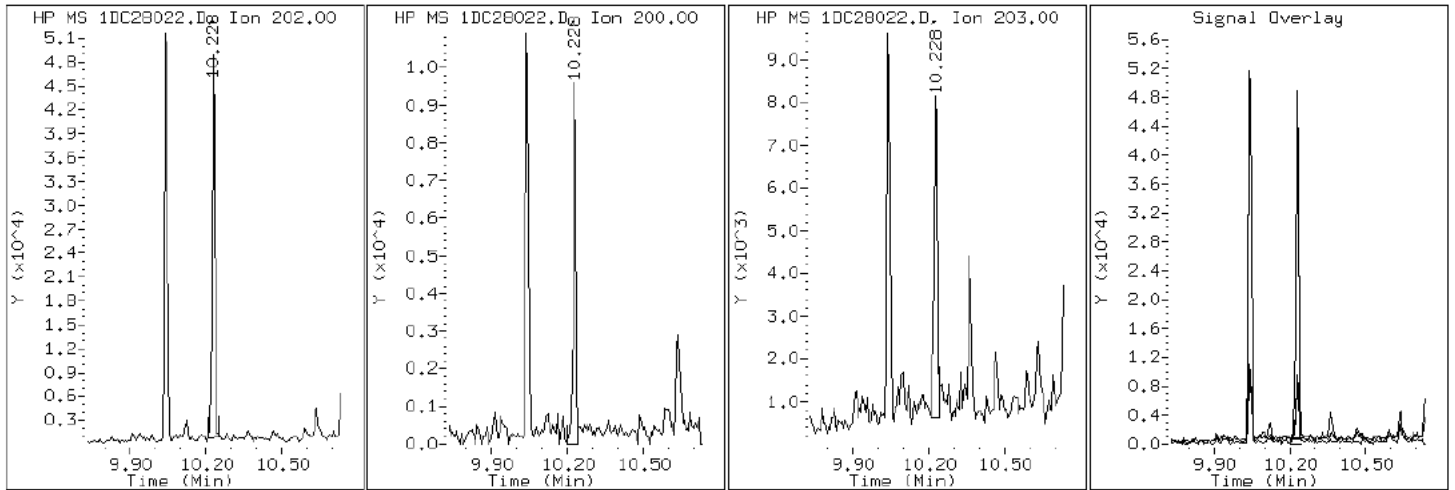
Client ID: CV0092A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-11-A

Operator: SCC

15 Pyrene

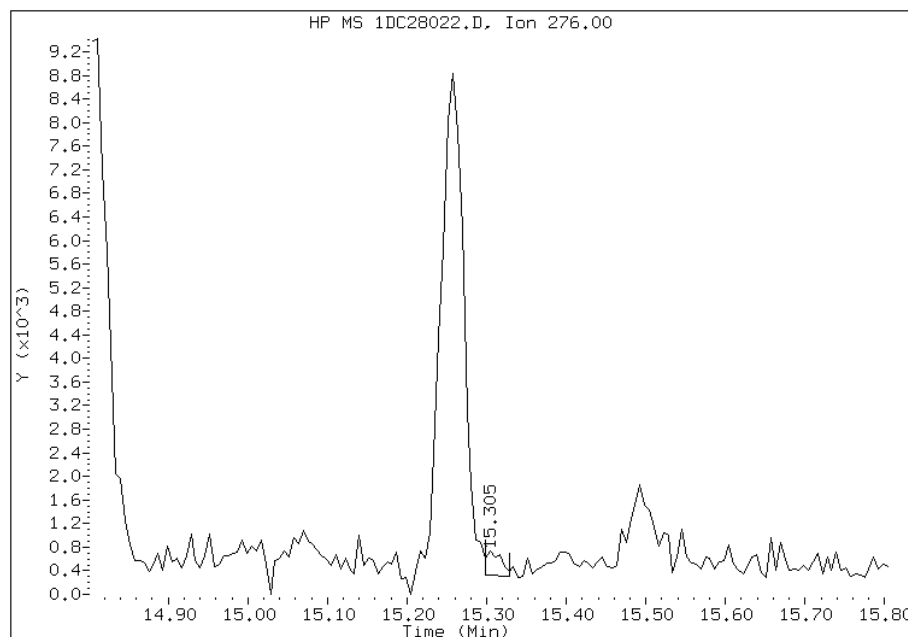


# Manual Integration Report

Data File: 1DC28022.D  
Inj. Date and Time: 28-MAR-2013 19:50  
Instrument ID: BSMSD.i  
Client ID: CV0092A-CS-SP  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/02/2013

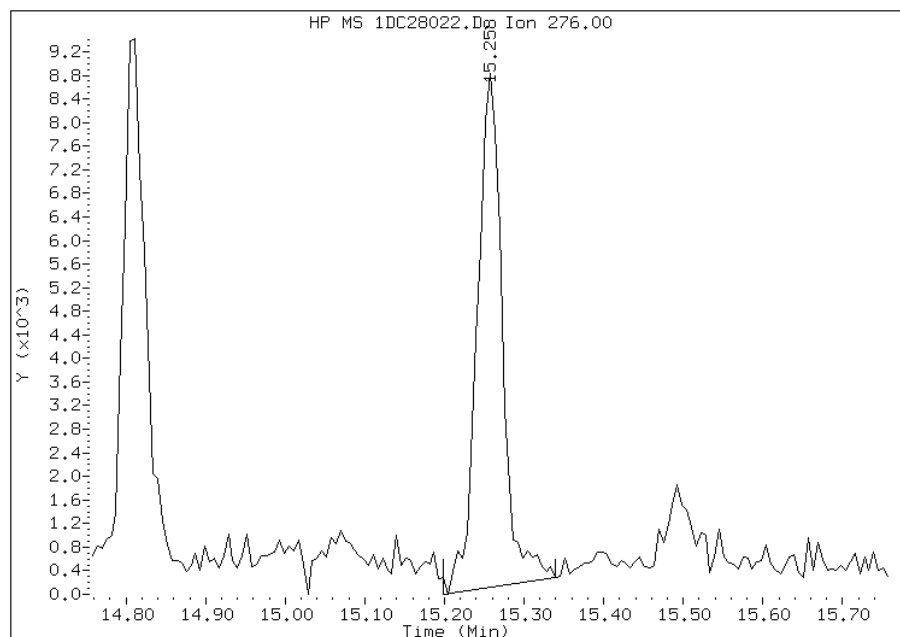
## Processing Integration Results

RT: 15.30  
Response: 569  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 15.26  
Response: 19049  
Amount: 0  
Conc: 55



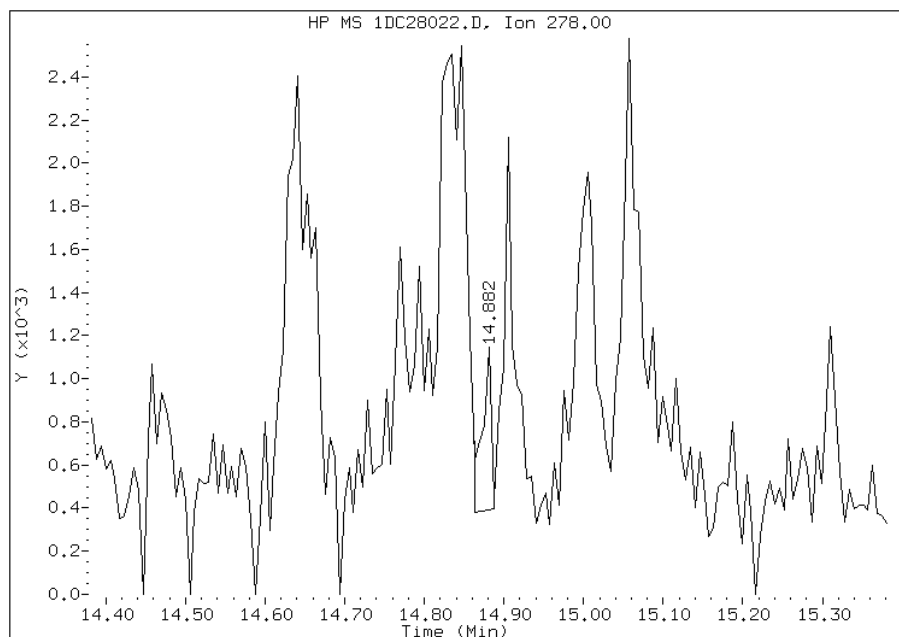
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:03  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DC28022.D  
Inj. Date and Time: 28-MAR-2013 19:50  
Instrument ID: BSMSD.i  
Client ID: CV0092A-CS-SP  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

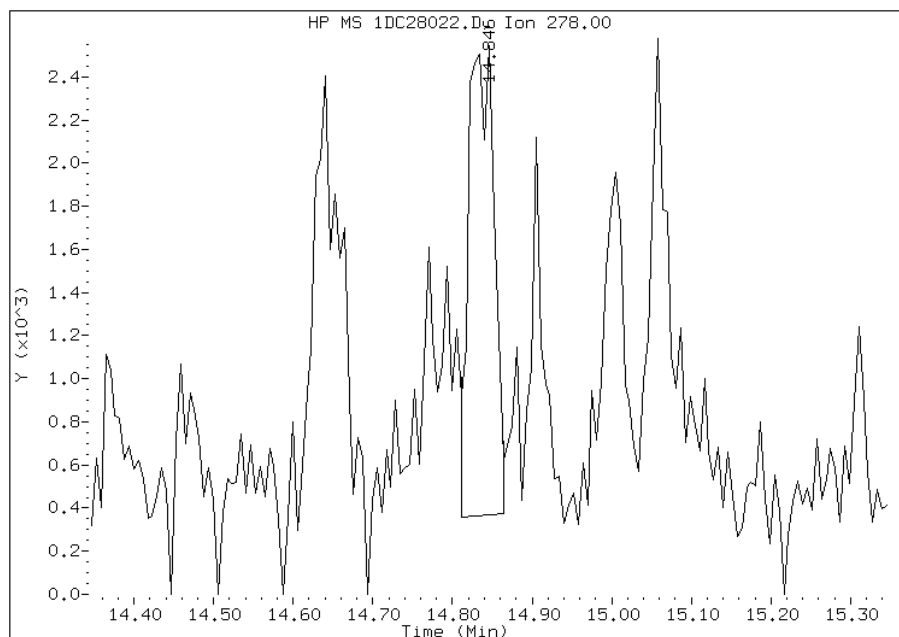
## Processing Integration Results

RT: 14.88  
Response: 618  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 14.85  
Response: 4931  
Amount: 0  
Conc: 15



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:03  
Manual Integration Reason: Baseline Event

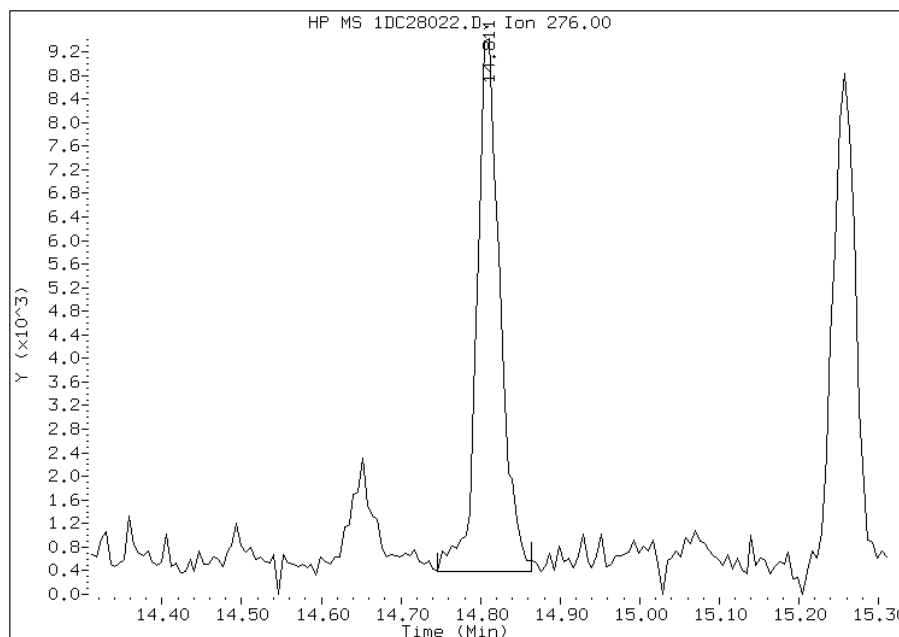


# Manual Integration Report

Data File: 1DC28022.D  
Inj. Date and Time: 28-MAR-2013 19:50  
Instrument ID: BSMSD.i  
Client ID: CV0092A-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

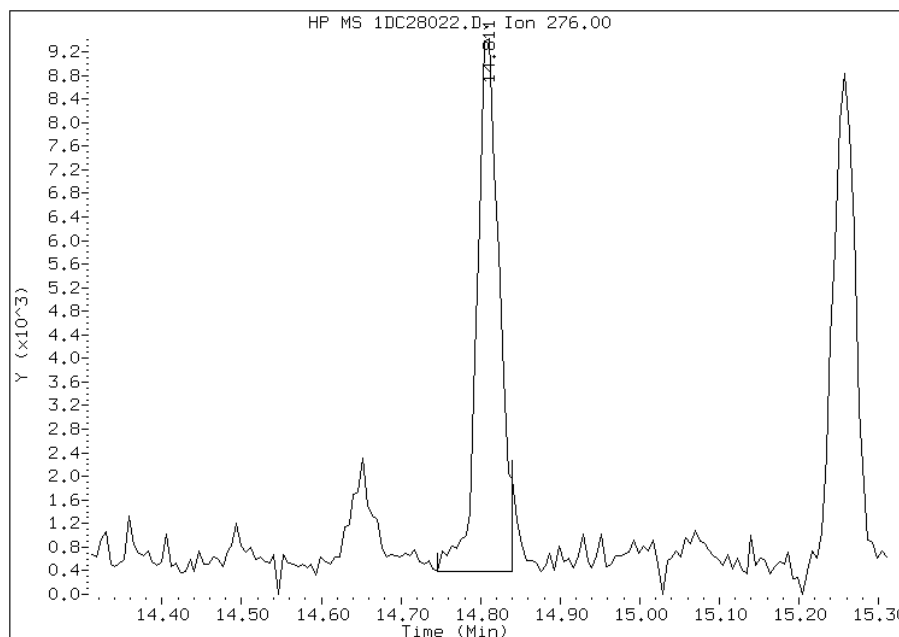
## Processing Integration Results

RT: 14.81  
Response: 18243  
Amount: 0  
Conc: 50



## Manual Integration Results

RT: 14.81  
Response: 17643  
Amount: 0  
Conc: 49



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:03  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0092B-CS-SP Lab Sample ID: 680-88632-12  
 Matrix: Solid Lab File ID: 1DC28023.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 10:55  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.81(g) Date Analyzed: 03/28/2013 20:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 26.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	55	U	55	6.8
120-12-7	Anthracene	11	U	11	5.7
56-55-3	Benzo[a]anthracene	11	U	11	5.3
50-32-8	Benzo[a]pyrene	14	U	14	7.1
205-99-2	Benzo[b]fluoranthene	17	U	17	8.3
191-24-2	Benzo[g,h,i]perylene	27	U	27	6.0
207-08-9	Benzo[k]fluoranthene	11	U	11	4.9
218-01-9	Chrysene	12	U	12	6.2
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.6
206-44-0	Fluoranthene	27	U	27	5.5
86-73-7	Fluorene	27	U	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	27	U	27	9.7
90-12-0	1-Methylnaphthalene	55	U	55	6.0
91-57-6	2-Methylnaphthalene	55	U	55	9.7
91-20-3	Naphthalene	55	U	55	6.0
85-01-8	Phenanthrene	11	U	11	5.3
129-00-0	Pyrene	27	U	27	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28023.D  
 Lab Smp Id: 680-88632-A-12-A Client Smp ID: CV0092B-CS-SP  
 Inj Date : 28-MAR-2013 20:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-12-A  
 Misc Info : 680-88632-A-12-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 23  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.810	Weight Extracted
M	25.951	% 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		6.102	6.102	(1.000)	3938449	40.0000	
* 6 Acenaphthene-d10	164		7.782	7.777	(1.000)	2523788	40.0000	
* 9 Phenanthrene-d10	188		9.045	9.040	(1.000)	4189099	40.0000	
\$ 13 o-Terphenyl	230		9.351	9.351	(1.034)	315867	4.87597	440
* 17 Chrysene-d12	240		11.378	11.373	(1.000)	4266900	40.0000	
* 22 Perylene-d12	264		13.235	13.223	(1.000)	4332418	40.0000	
10 Phenanthrene	178		9.057	9.064	(1.001)	6282	0.05283	4.8
14 Fluoranthene	202		10.044	10.045	(1.110)	5085	0.04098	3.7
15 Pyrene	202		10.232	10.233	(0.899)	4137	0.03126	2.8

Data File: 1DC28023.D

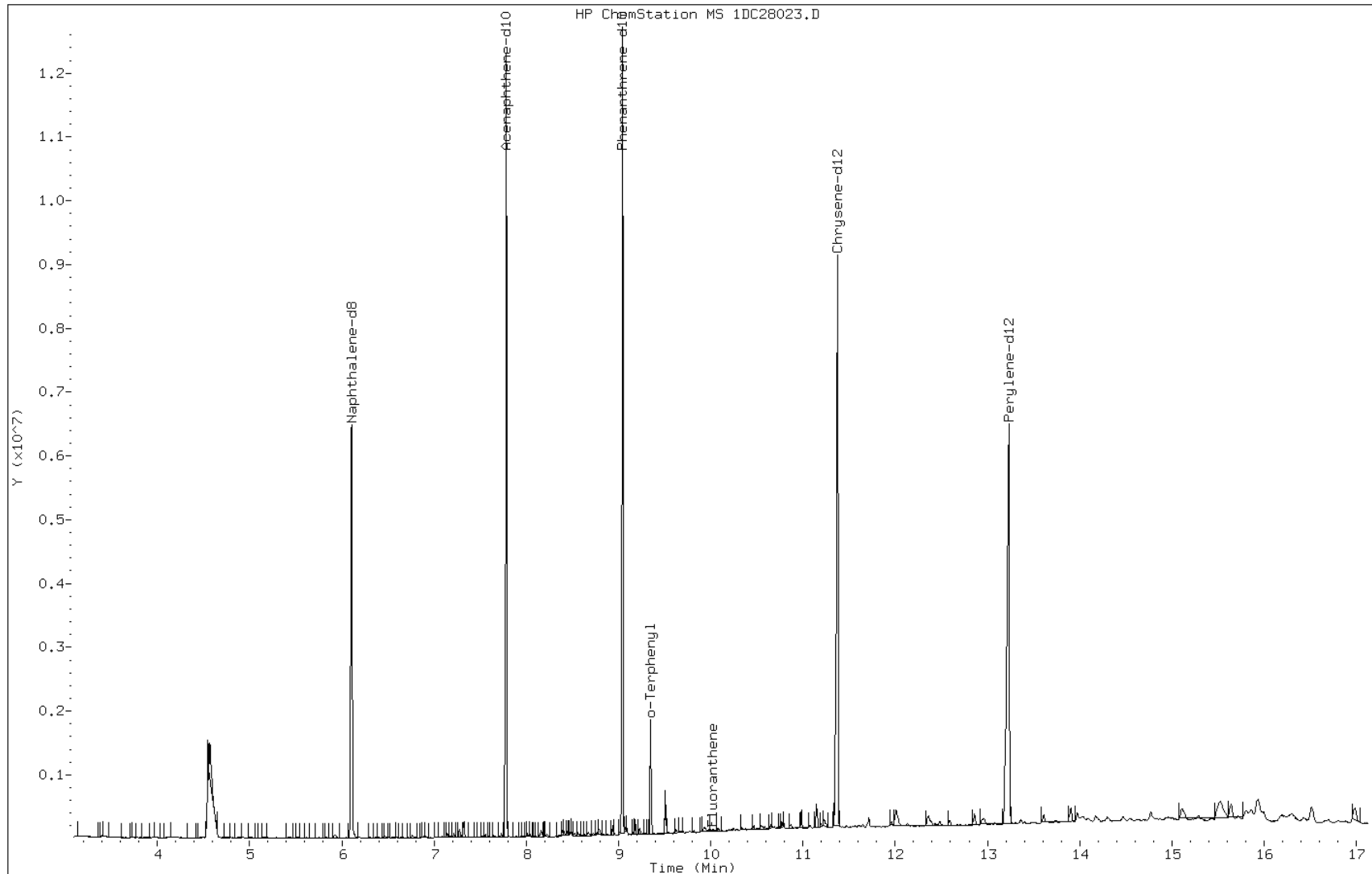
Date: 28-MAR-2013 20:12

Client ID: CV0092B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-12-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0312A-CS-SP Lab Sample ID: 680-88632-13  
 Matrix: Solid Lab File ID: 1DC28024.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 09:29  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.96(g) Date Analyzed: 03/28/2013 20:35  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 28.3 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	15	J	56	7.0
120-12-7	Anthracene	30		12	5.9
56-55-3	Benzo[a]anthracene	96		11	5.5
50-32-8	Benzo[a]pyrene	90		15	7.3
205-99-2	Benzo[b]fluoranthene	210		17	8.5
191-24-2	Benzo[g,h,i]perylene	65		28	6.2
207-08-9	Benzo[k]fluoranthene	64		11	5.0
218-01-9	Chrysene	190		13	6.3
53-70-3	Dibenz(a,h)anthracene	21	J	28	5.7
206-44-0	Fluoranthene	200		28	5.6
86-73-7	Fluorene	12	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	56		28	9.9
90-12-0	1-Methylnaphthalene	69		56	6.2
91-57-6	2-Methylnaphthalene	99		56	9.9
91-20-3	Naphthalene	160		56	6.2
85-01-8	Phenanthrene	180		11	5.5
129-00-0	Pyrene	130		28	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28024.D  
 Lab Smp Id: 680-88632-A-13-A Client Smp ID: FM0312A-CS-SP  
 Inj Date : 28-MAR-2013 20:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-13-A  
 Misc Info : 680-88632-A-13-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 24  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	28.285	% 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		6.107	6.102	(1.000)	3754877	40.0000		
* 6 Acenaphthene-d10	164		7.782	7.777	(1.000)	2445655	40.0000		
* 9 Phenanthrene-d10	188		9.051	9.040	(1.000)	4100466	40.0000		
\$ 13 o-Terphenyl	230		9.351	9.351	(1.033)	315206	4.97094	460	
* 17 Chrysene-d12	240		11.384	11.373	(1.000)	4176455	40.0000		
* 22 Perylene-d12	264		13.246	13.223	(1.000)	3983220	40.0000		
2 Naphthalene	128		6.125	6.126	(1.003)	174001	1.73229	160	
3 2-Methylnaphthalene	142		6.830	6.825	(1.118)	67965	1.06221	99	
4 1-Methylnaphthalene	142		6.918	6.919	(1.133)	44256	0.73862	69	
5 Acenaphthylene	152		7.653	7.653	(0.983)	17918	0.16618	15	
8 Fluorene	166		8.246	8.247	(1.060)	10031	0.13059	12	
10 Phenanthrene	178		9.063	9.064	(1.001)	225186	1.93461	180	
11 Anthracene	178		9.104	9.099	(1.006)	37679	0.32354	30	
12 Carbazole	167		9.245	9.240	(1.021)	34865	0.33489	31	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.044	10.045	(1.110)	258924	2.13158	200
15 Pyrene	202	10.232	10.233	(0.899)	185928	1.43519	130
16 Benzo(a)anthracene	228	11.366	11.349	(0.998)	117765	1.02994	96
18 Chrysene	228	11.401	11.396	(1.002)	242237	2.05205	190
19 Benzo(b)fluoranthene	252	12.676	12.671	(0.957)	235512	2.29707	210
20 Benzo(k)fluoranthene	252	12.712	12.712	(0.960)	73137	0.68130	64
21 Benzo(a)pyrene	252	13.135	13.124	(0.992)	98185	0.96773	90
23 Indeno(1,2,3-cd)pyrene	276	14.856	14.827	(1.122)	65165	0.60184	56(M)
24 Dibenzo(a,h)anthracene	278	14.874	14.863	(1.123)	23030	0.23031	21
25 Benzo(g,h,i)perylene	276	15.308	15.280	(1.156)	72156	0.69895	65

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC28024.D

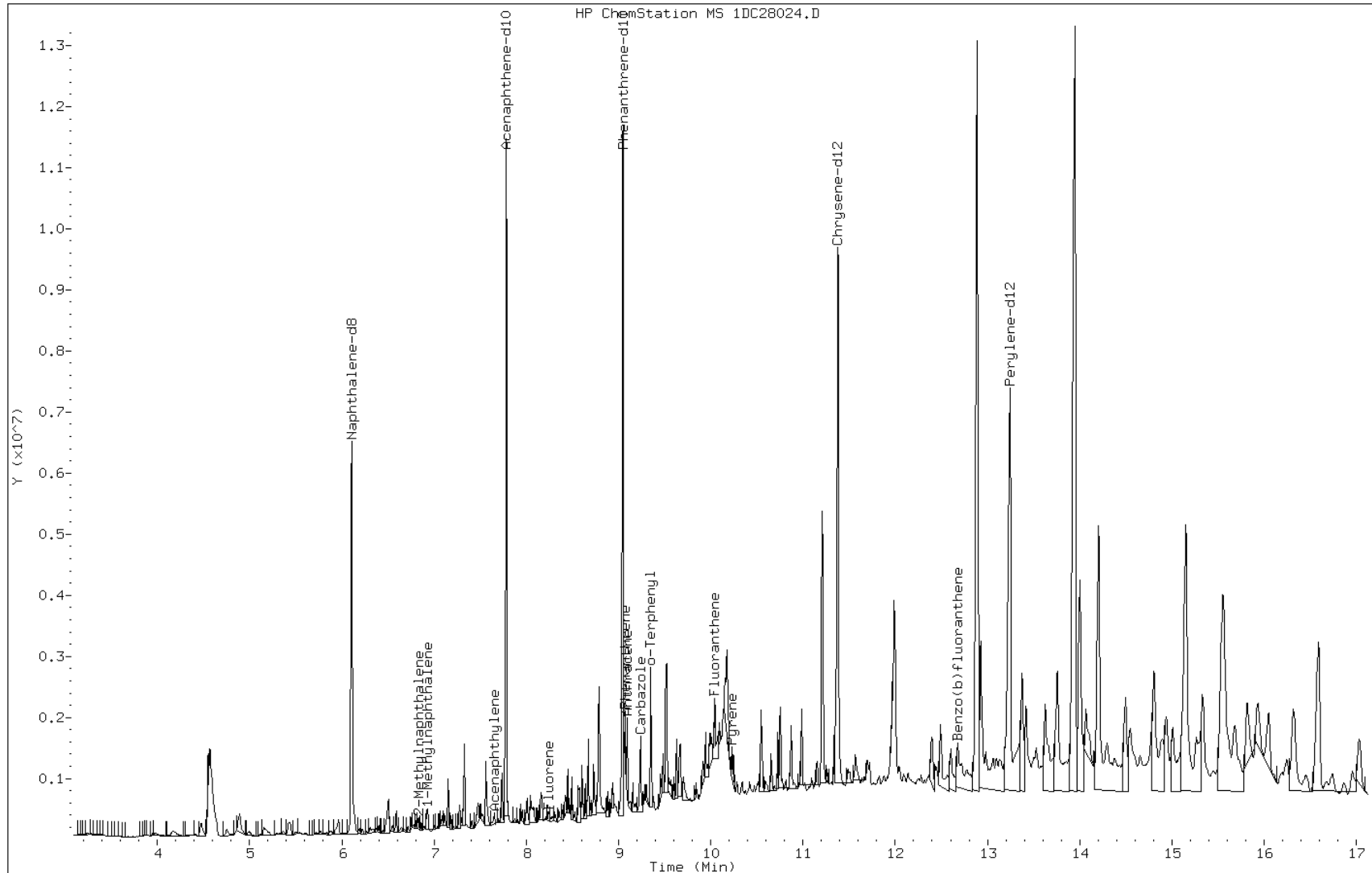
Date: 28-MAR-2013 20:35

Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC





Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

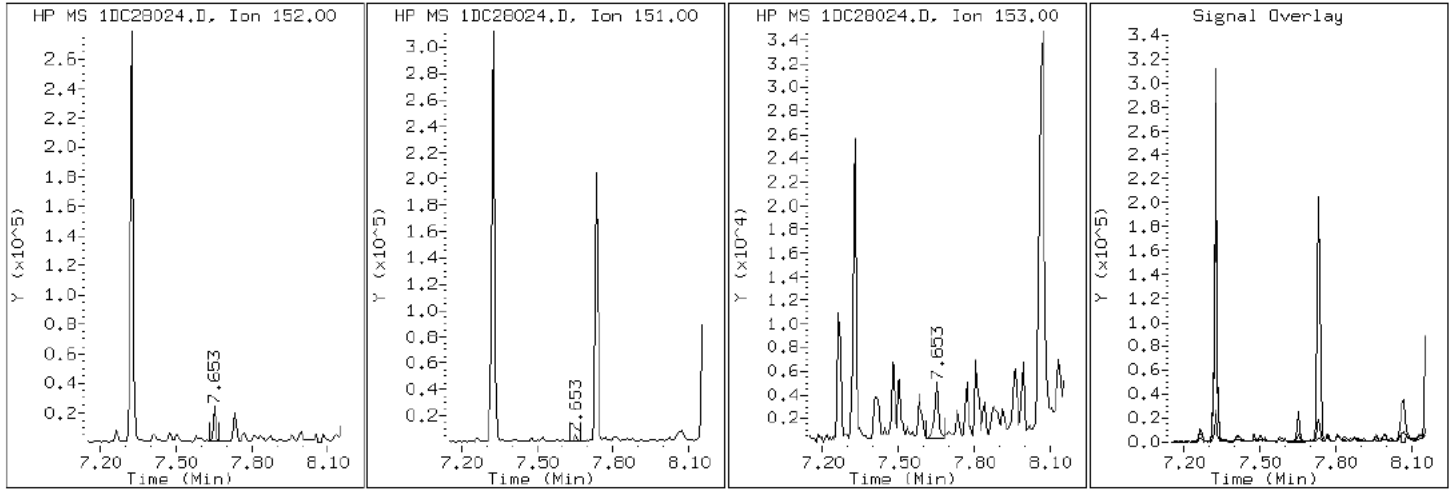
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

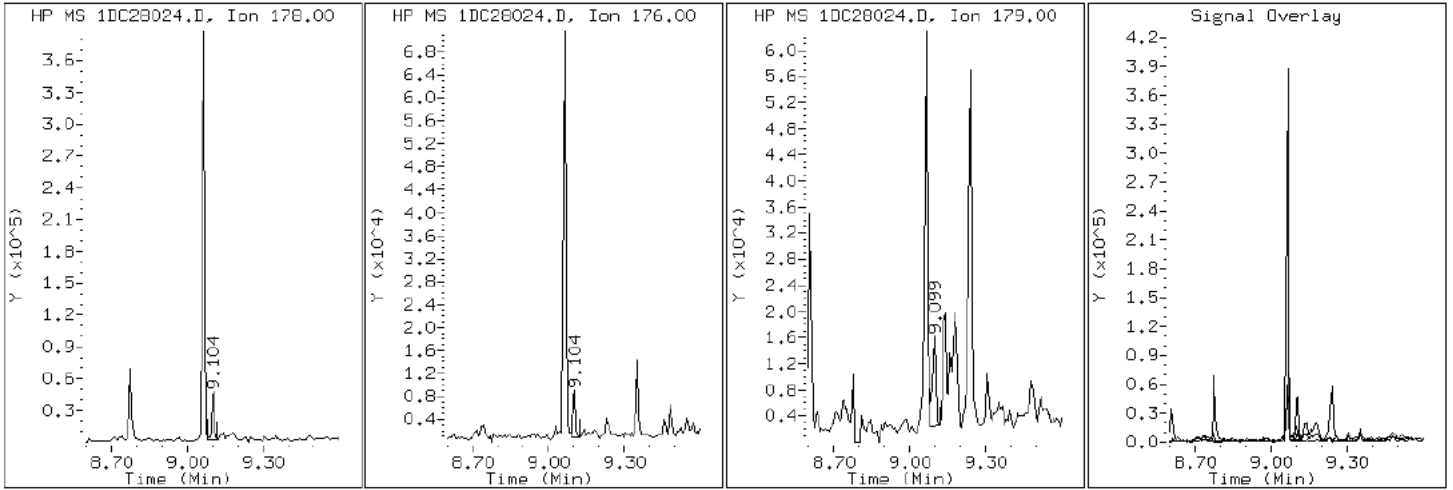
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

11 Anthracene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

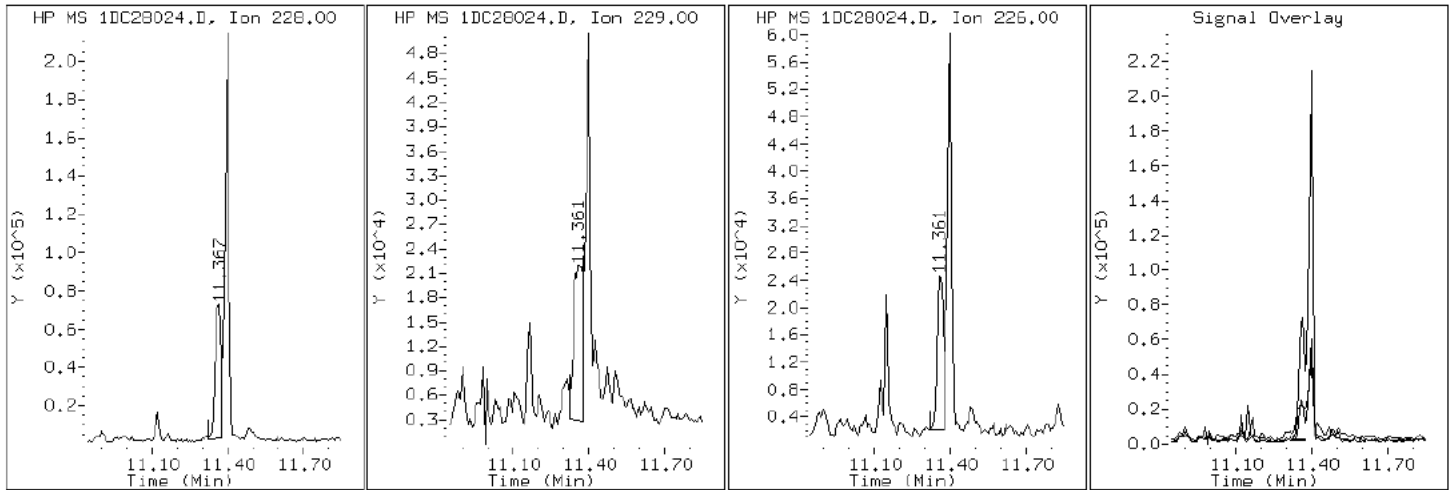
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

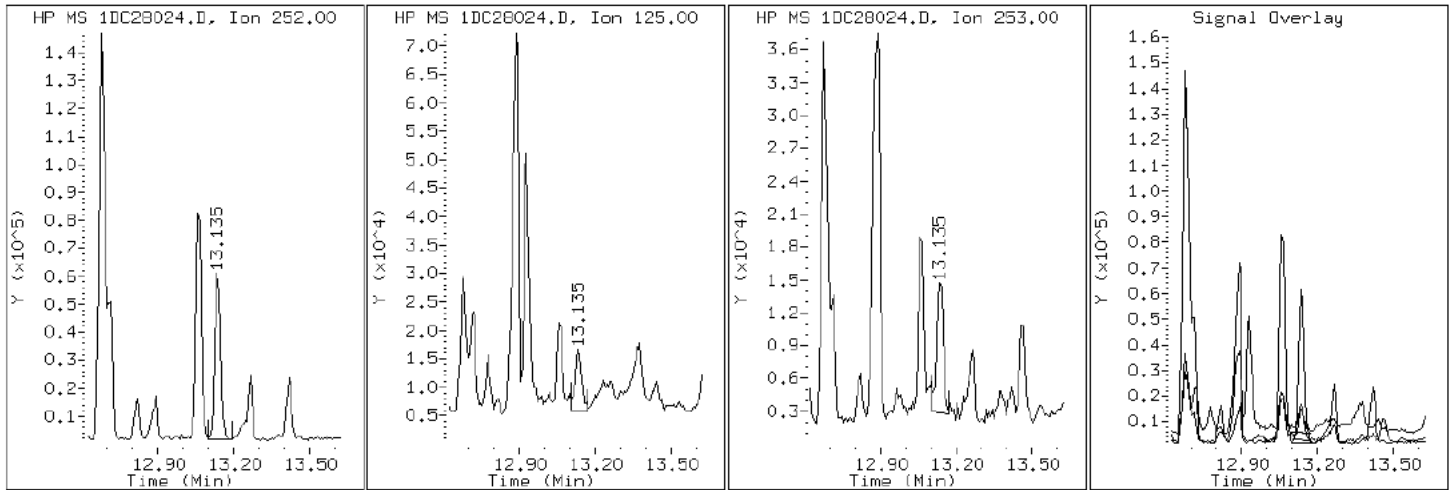
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

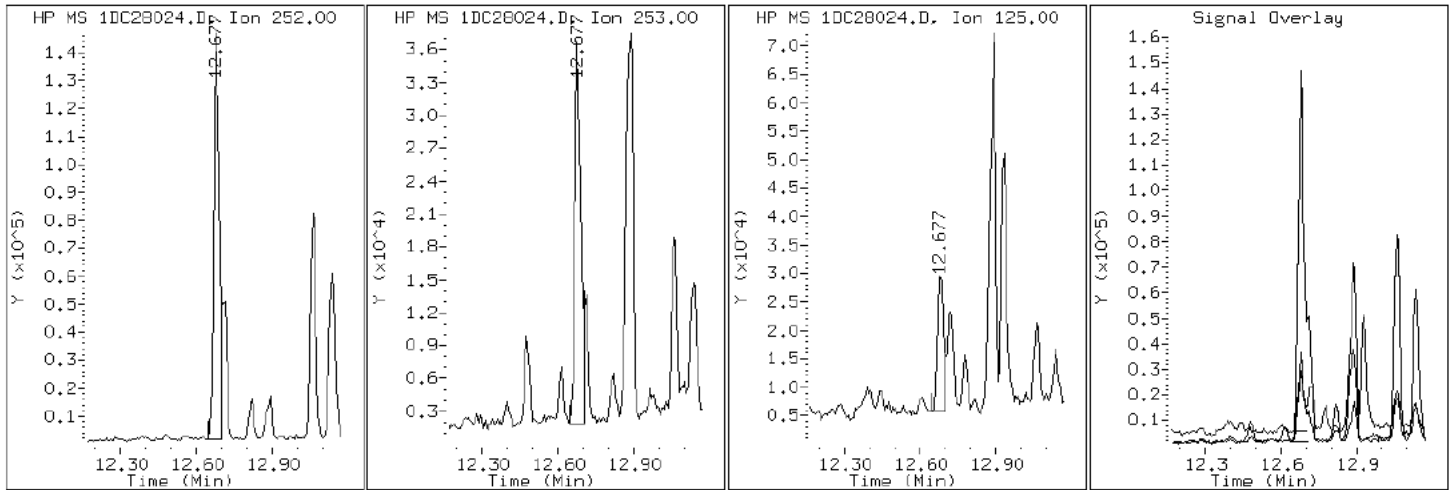
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

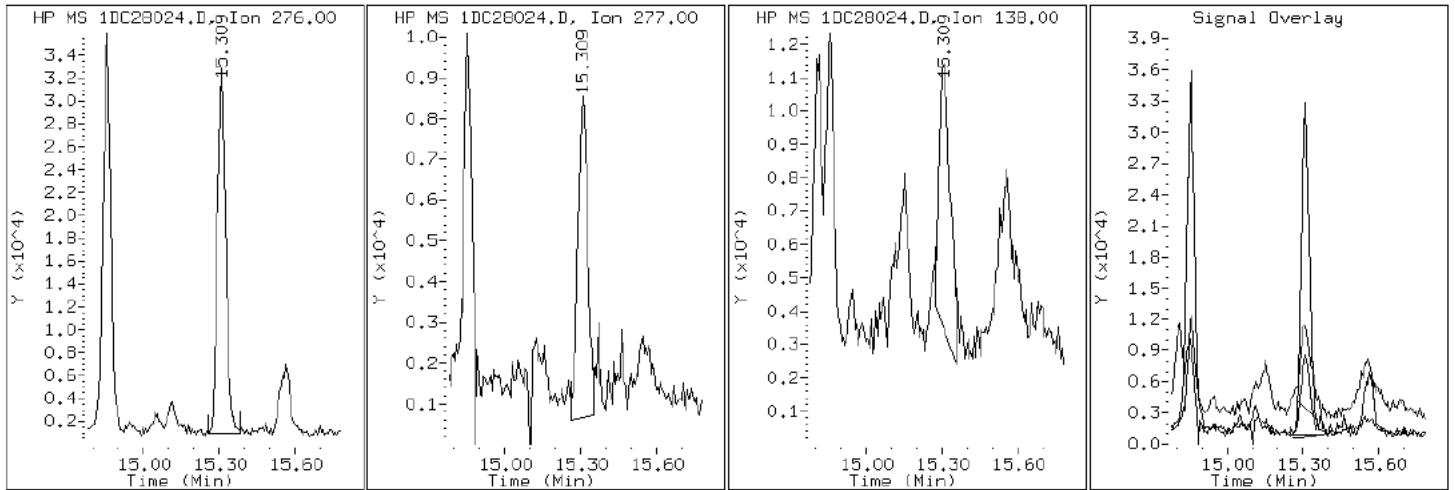
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

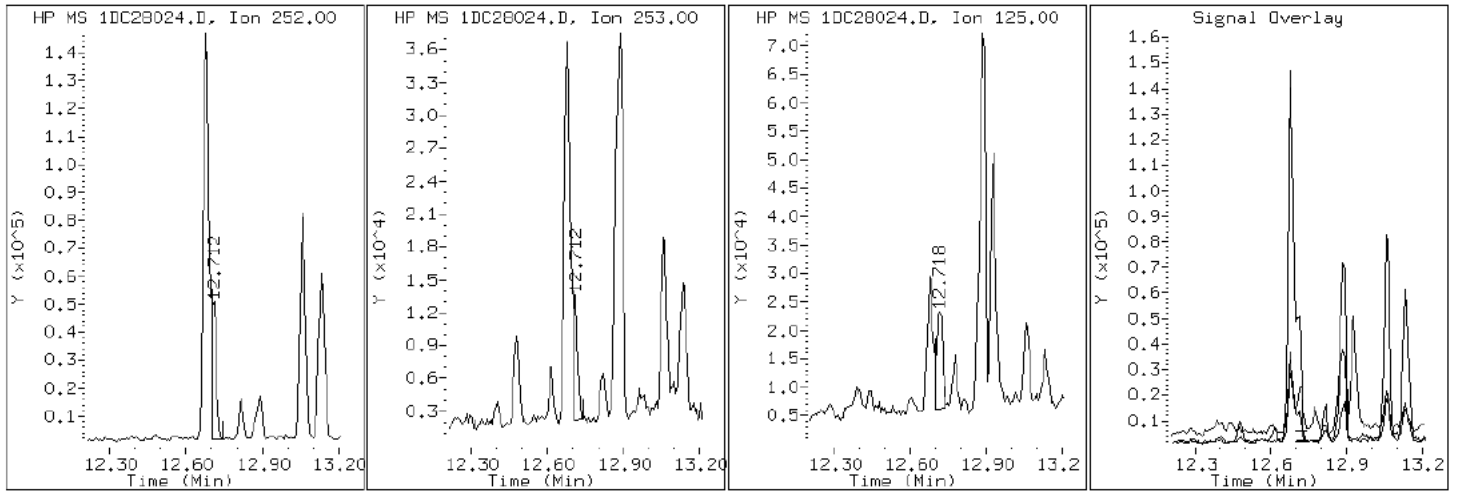
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

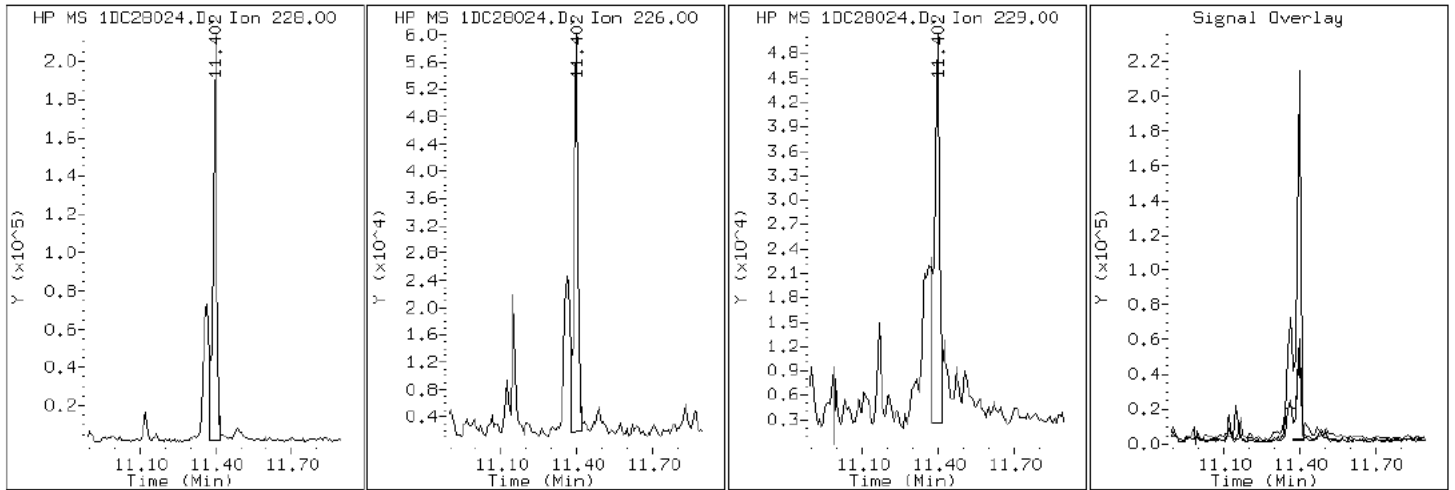
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

18 Chrysene





Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

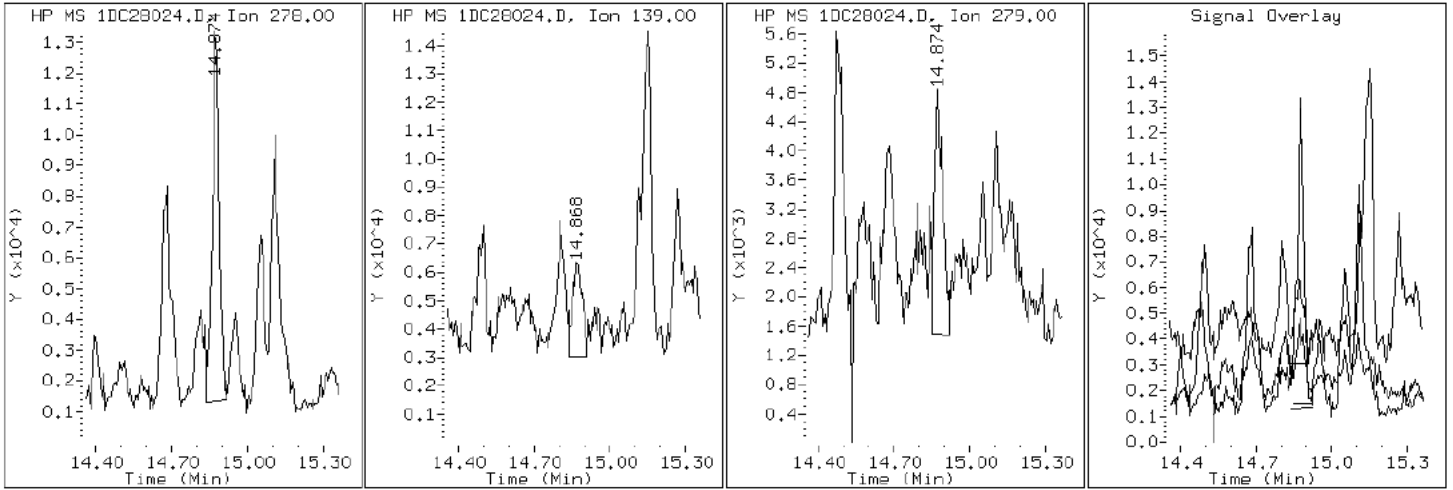
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

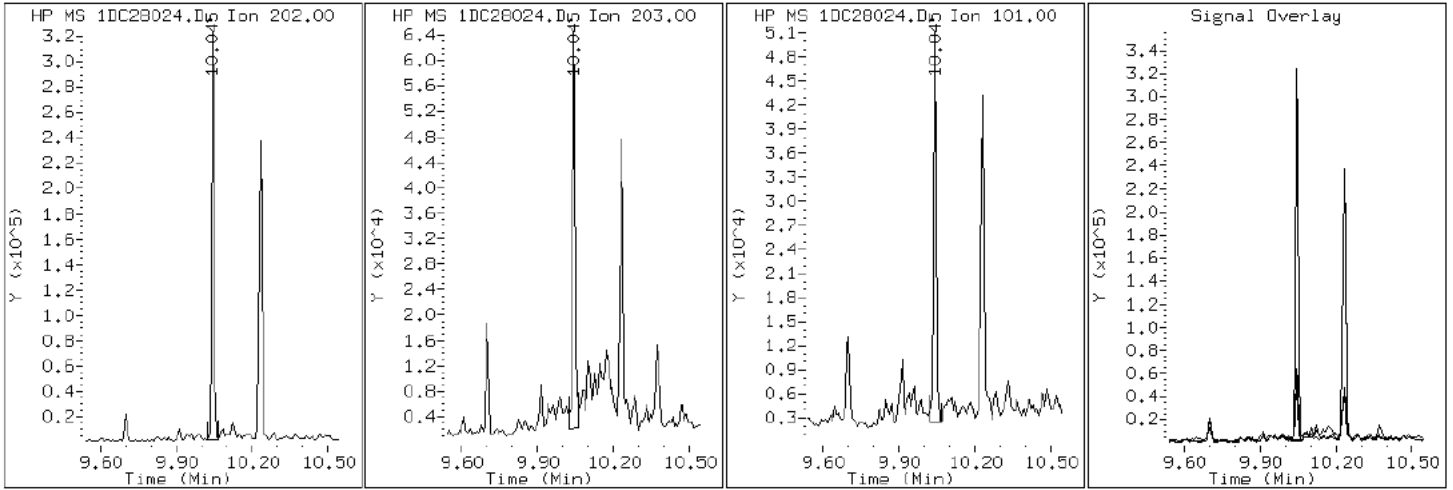
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

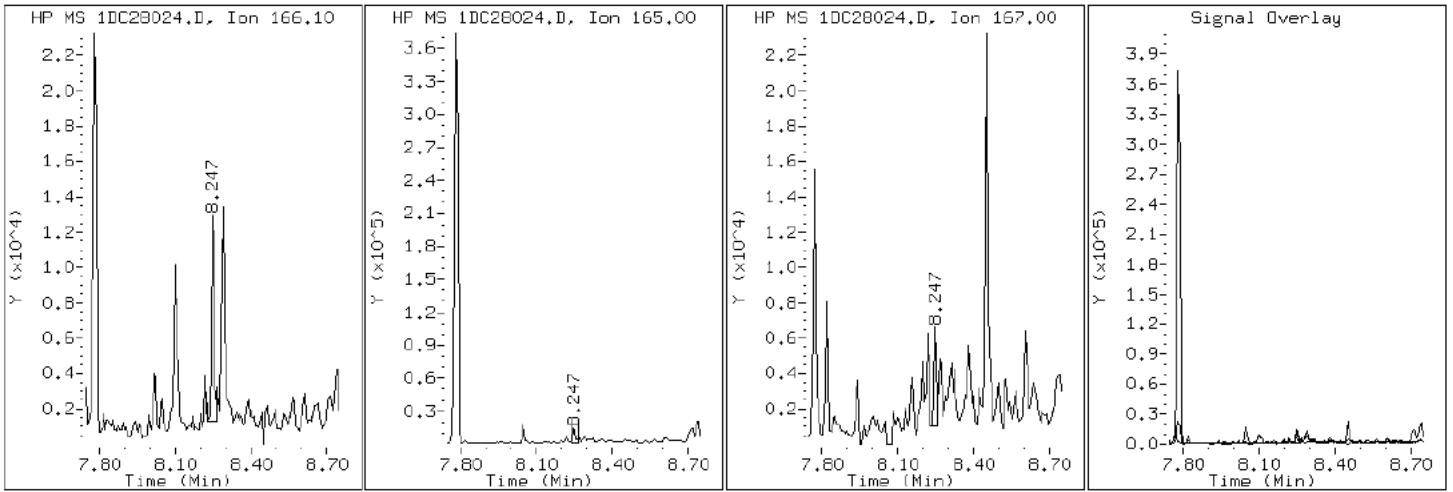
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

8 Fluorene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

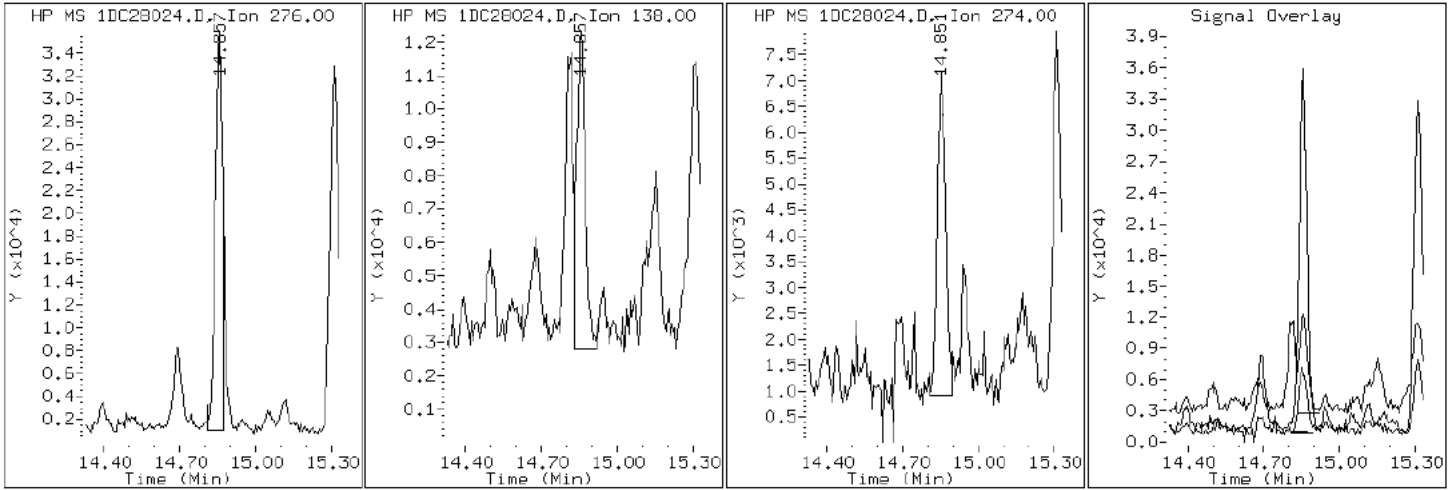
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

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



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

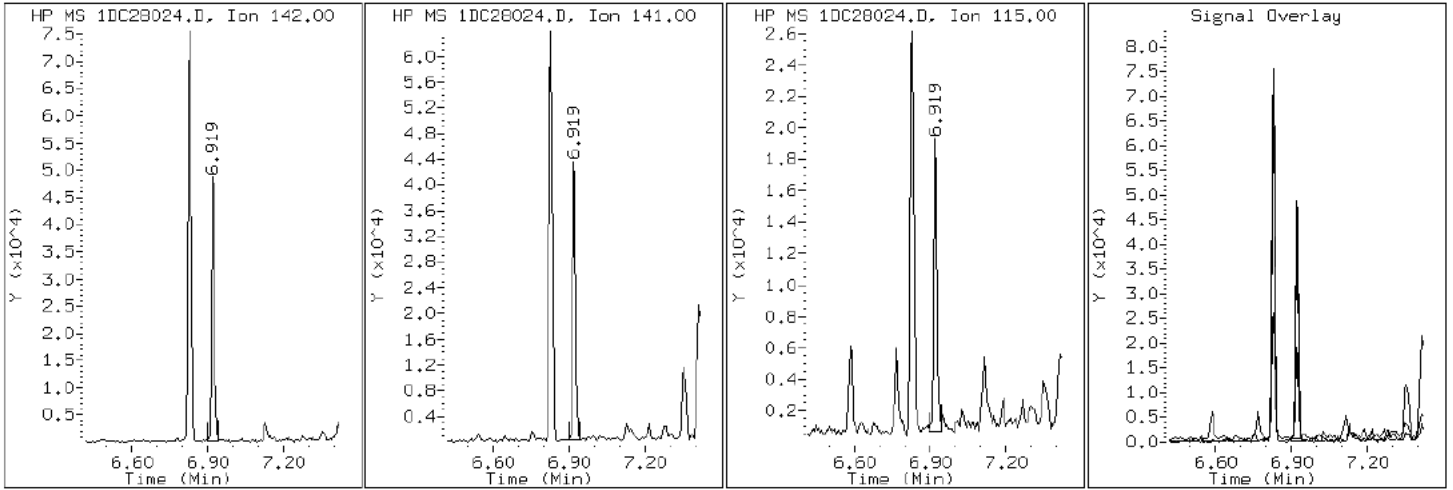
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

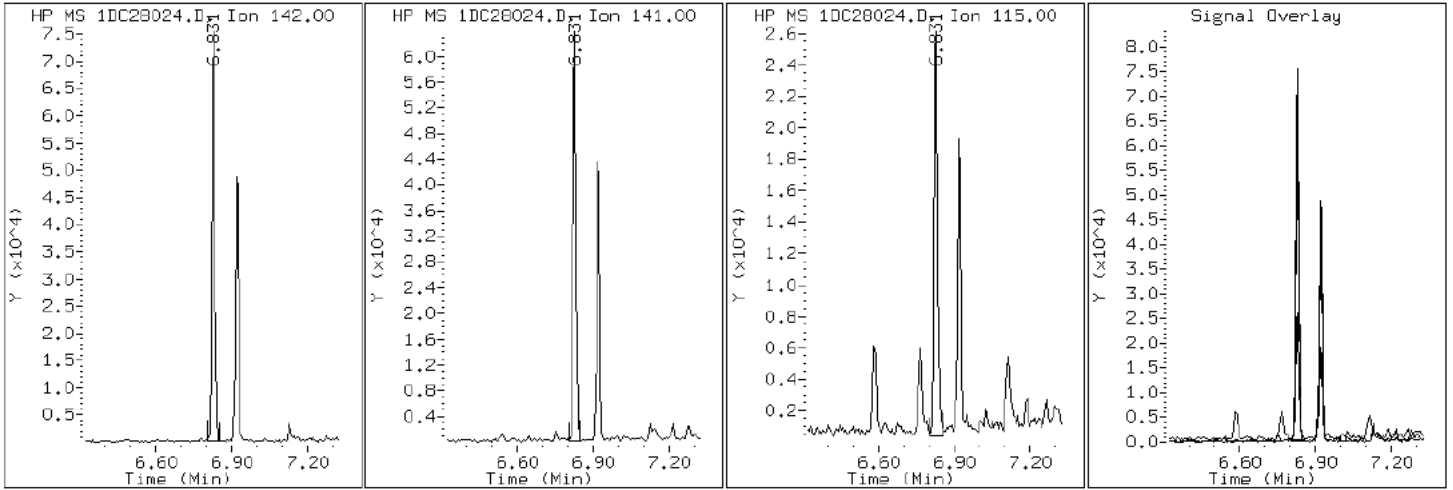
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

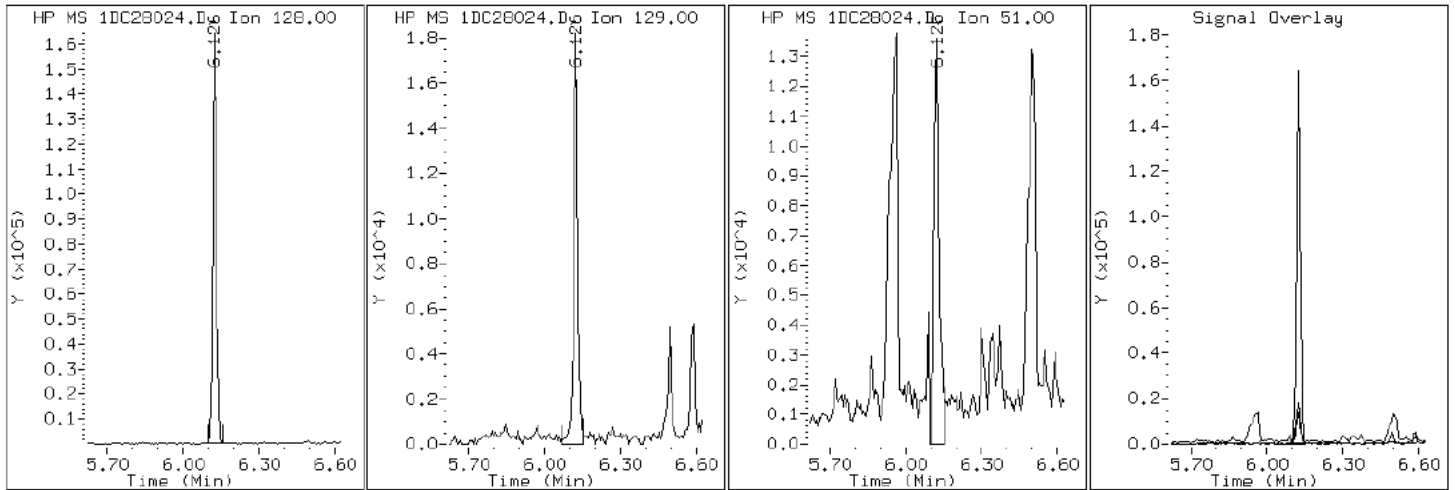
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

2 Naphthalene



Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

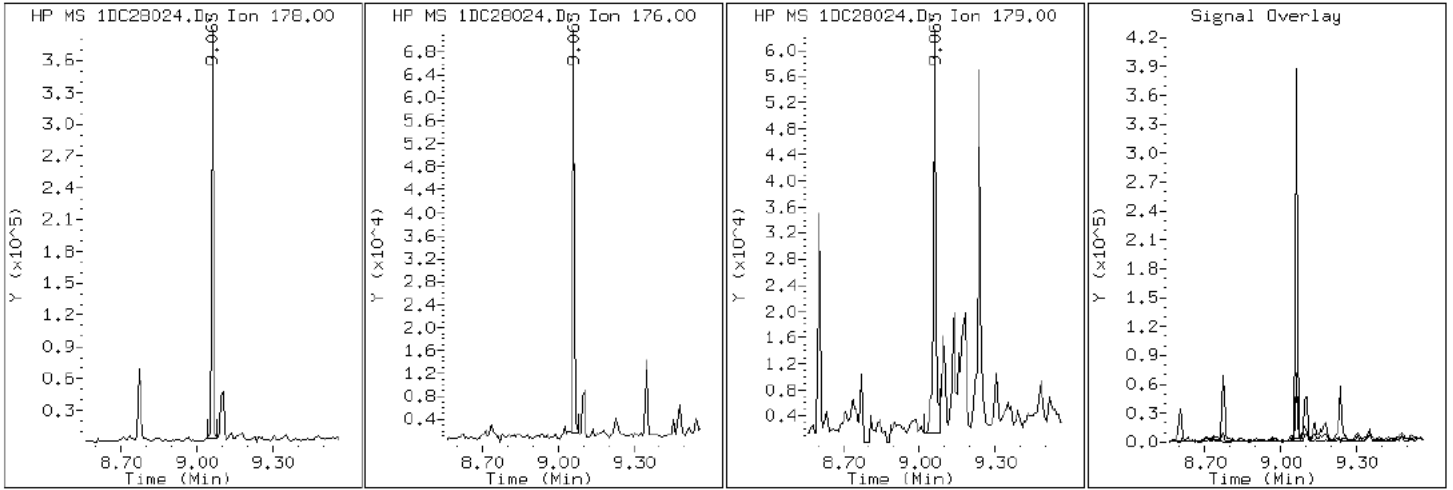
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

10 Phenanthrene





Data File: 1DC28024.D

Date: 28-MAR-2013 20:35

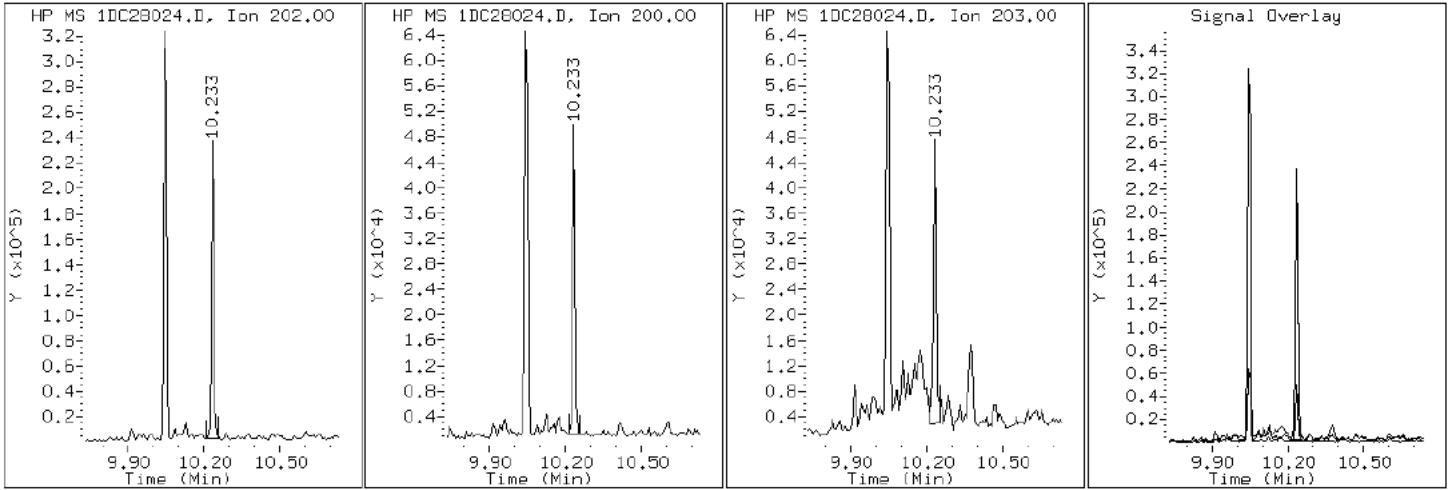
Client ID: FM0312A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-13-A

Operator: SCC

15 Pyrene

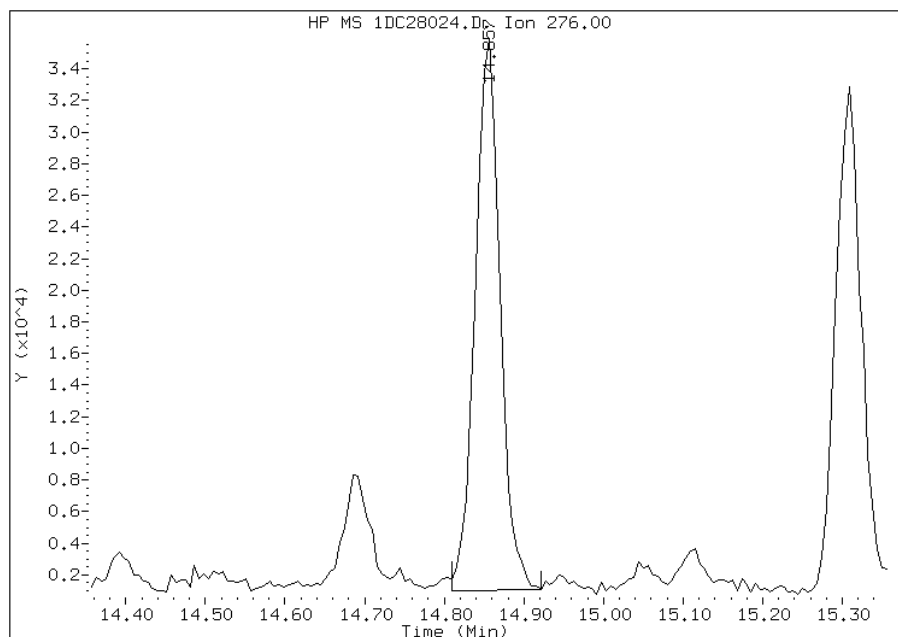


# Manual Integration Report

Data File: 1DC28024.D  
Inj. Date and Time: 28-MAR-2013 20:35  
Instrument ID: BSMSD.i  
Client ID: FM0312A-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

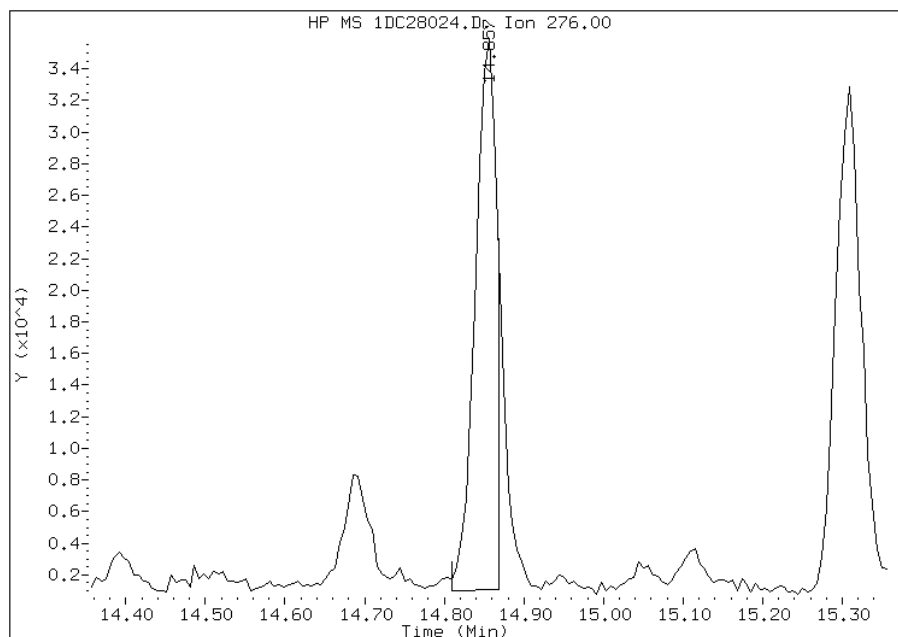
## Processing Integration Results

RT: 14.86  
Response: 75477  
Amount: 1  
Conc: 65



## Manual Integration Results

RT: 14.86  
Response: 65165  
Amount: 1  
Conc: 56



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:05  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0312B-CS-SP Lab Sample ID: 680-88632-14  
 Matrix: Solid Lab File ID: 1DC28025.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 09:32  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.03(g) Date Analyzed: 03/28/2013 20:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 24.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	8.1	J	53	6.6
120-12-7	Anthracene	13		11	5.6
56-55-3	Benzo[a]anthracene	57		11	5.2
50-32-8	Benzo[a]pyrene	49		14	6.9
205-99-2	Benzo[b]fluoranthene	120		16	8.1
191-24-2	Benzo[g,h,i]perylene	38		27	5.8
207-08-9	Benzo[k]fluoranthene	31		11	4.8
218-01-9	Chrysene	100		12	6.0
53-70-3	Dibenz(a,h)anthracene	14	J	27	5.4
206-44-0	Fluoranthene	110		27	5.3
86-73-7	Fluorene	27	U	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	35		27	9.4
90-12-0	1-Methylnaphthalene	27	J	53	5.8
91-57-6	2-Methylnaphthalene	42	J	53	9.4
91-20-3	Naphthalene	68		53	5.8
85-01-8	Phenanthrene	85		11	5.2
129-00-0	Pyrene	71		27	4.9

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\1D032813.b\1DC28025.D  
 Lab Smp Id: 680-88632-A-14-A Client Smp ID: FM0312B-CS-SP  
 Inj Date : 28-MAR-2013 20:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-14-A  
 Misc Info : 680-88632-A-14-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 25  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	24.818	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.108	6.102	(1.000)	3892746	40.0000	
* 6 Acenaphthene-d10	164	7.788	7.777	(1.000)	2510492	40.0000	
* 9 Phenanthrene-d10	188	9.052	9.040	(1.000)	4125368	40.0000	
\$ 13 o-Terphenyl	230	9.351	9.351	(1.033)	360052	5.64391	500
* 17 Chrysene-d12	240	11.378	11.373	(1.000)	4362632	40.0000	
* 22 Perylene-d12	264	13.241	13.223	(1.000)	4174107	40.0000	
2 Naphthalene	128	6.126	6.126	(1.003)	79735	0.76570	68
3 2-Methylnaphthalene	142	6.831	6.825	(1.118)	31669	0.47742	42
4 1-Methylnaphthalene	142	6.925	6.919	(1.134)	19099	0.30747	27
5 Acenaphthylene	152	7.653	7.653	(0.983)	10098	0.09123	8.1
8 Fluorene	166	8.253	8.247	(1.060)	4437	0.05627	5.0
10 Phenanthrene	178	9.063	9.064	(1.001)	112344	0.95934	85
11 Anthracene	178	9.105	9.099	(1.006)	17716	0.15120	13
12 Carbazole	167	9.246	9.240	(1.021)	16333	0.15594	14

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.045	10.045	(1.110)	147955	1.21068	110
15 Pyrene	202	10.233	10.233	(0.899)	108388	0.80095	71
16 Benzo(a)anthracene	228	11.355	11.349	(0.998)	76779	0.64283	57
18 Chrysene	228	11.402	11.396	(1.002)	139270	1.12944	100
19 Benzo(b)fluoranthene	252	12.677	12.671	(0.957)	149670	1.39305	120
20 Benzo(k)fluoranthene	252	12.706	12.712	(0.960)	39388	0.35013	31
21 Benzo(a)pyrene	252	13.129	13.124	(0.992)	59314	0.55787	49
23 Indeno(1,2,3-cd)pyrene	276	14.833	14.827	(1.120)	45509	0.40109	35(M)
24 Dibenzo(a,h)anthracene	278	14.862	14.863	(1.122)	16624	0.15865	14(MH)
25 Benzo(g,h,i)perylene	276	15.286	15.280	(1.154)	46064	0.42580	38

QC Flag Legend

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

Data File: 1DC28025.D

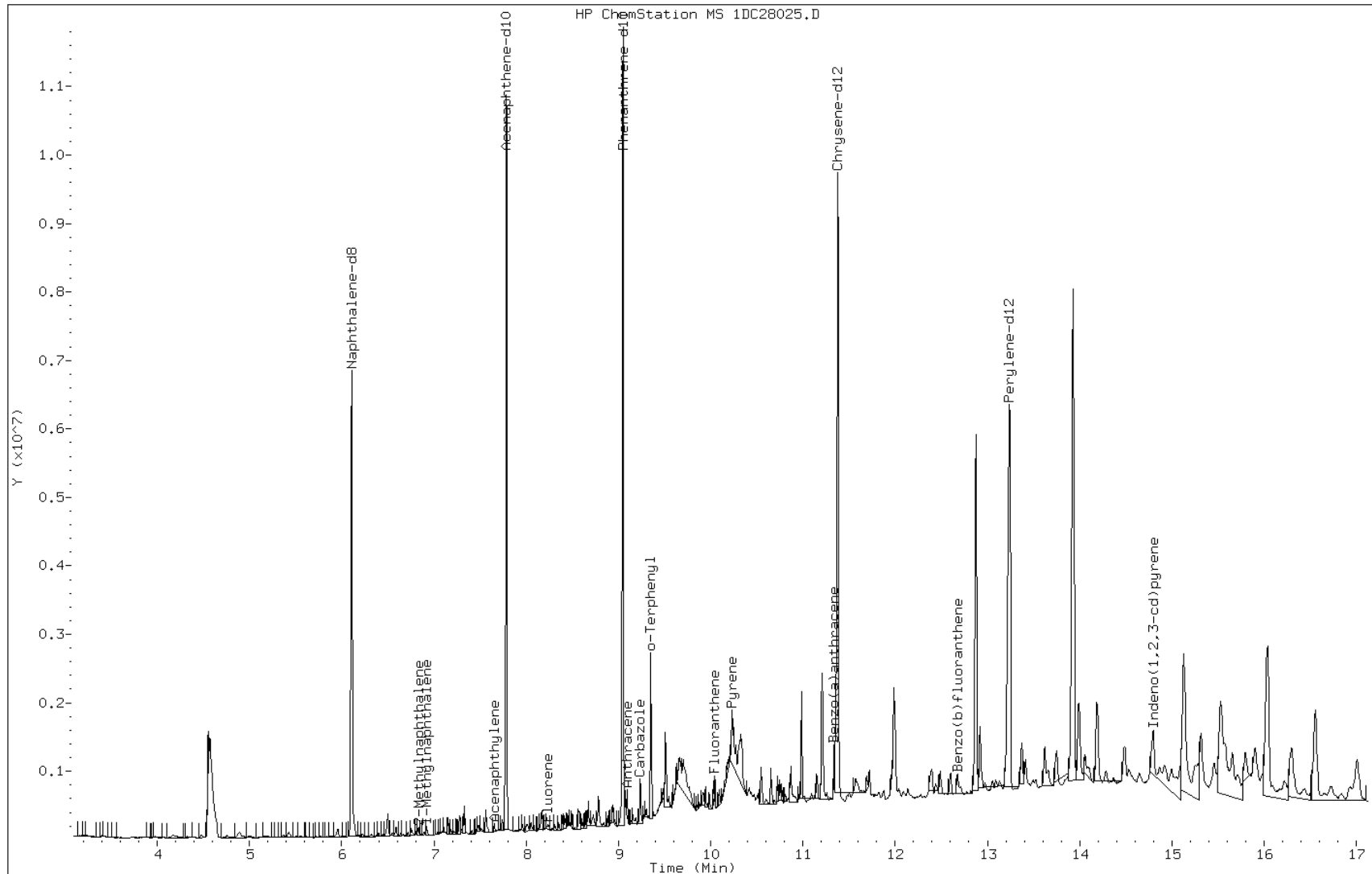
Date: 28-MAR-2013 20:57

Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

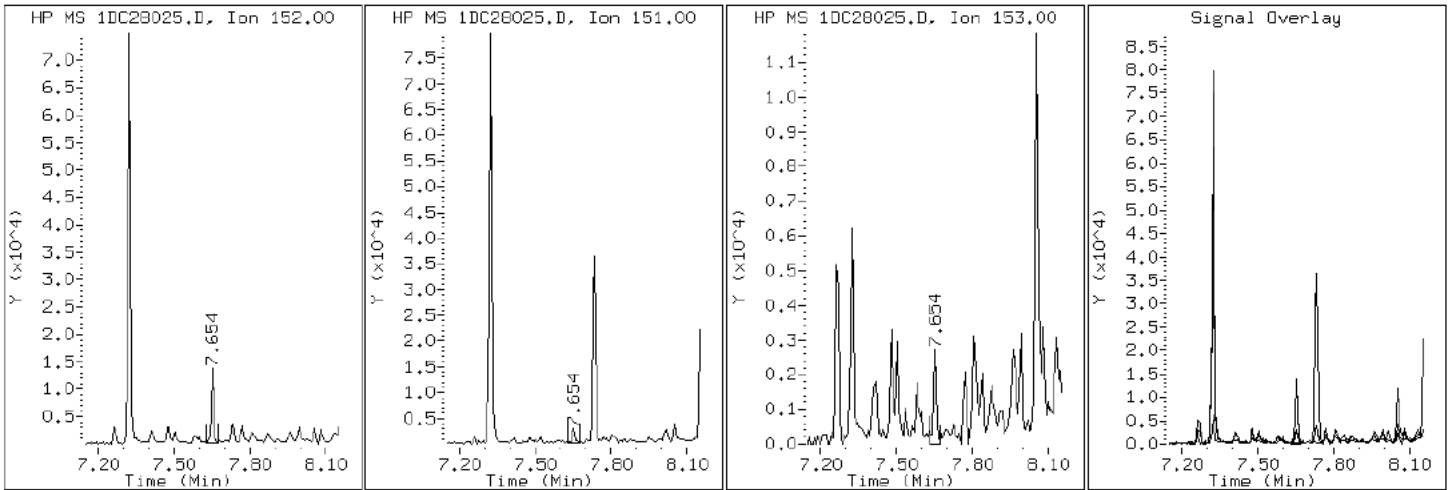
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

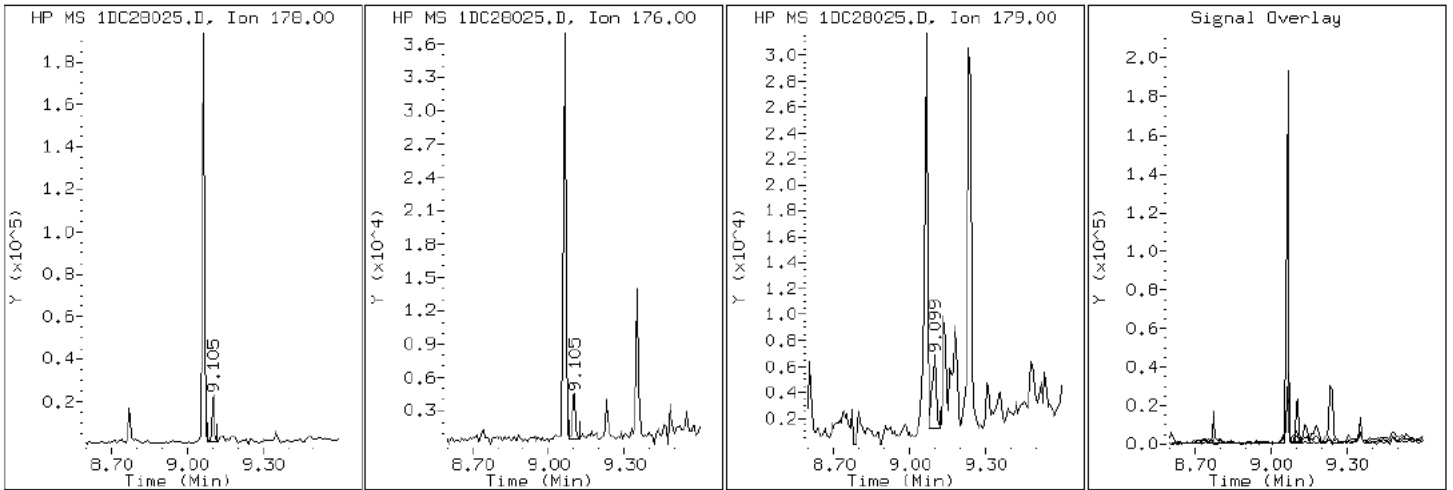
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

11 Anthracene





Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

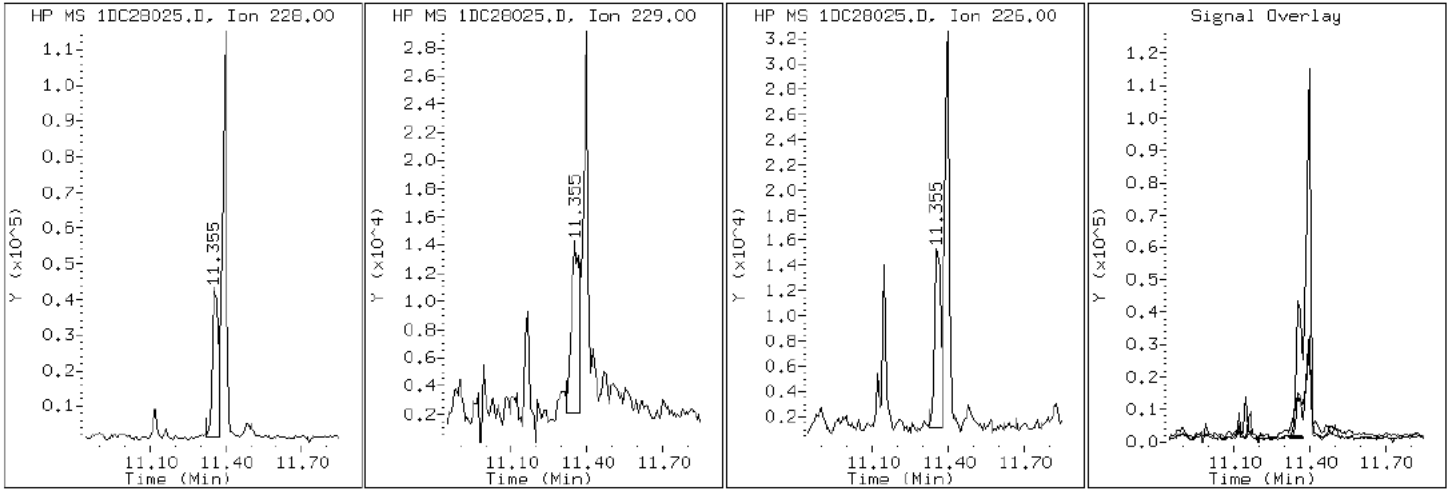
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

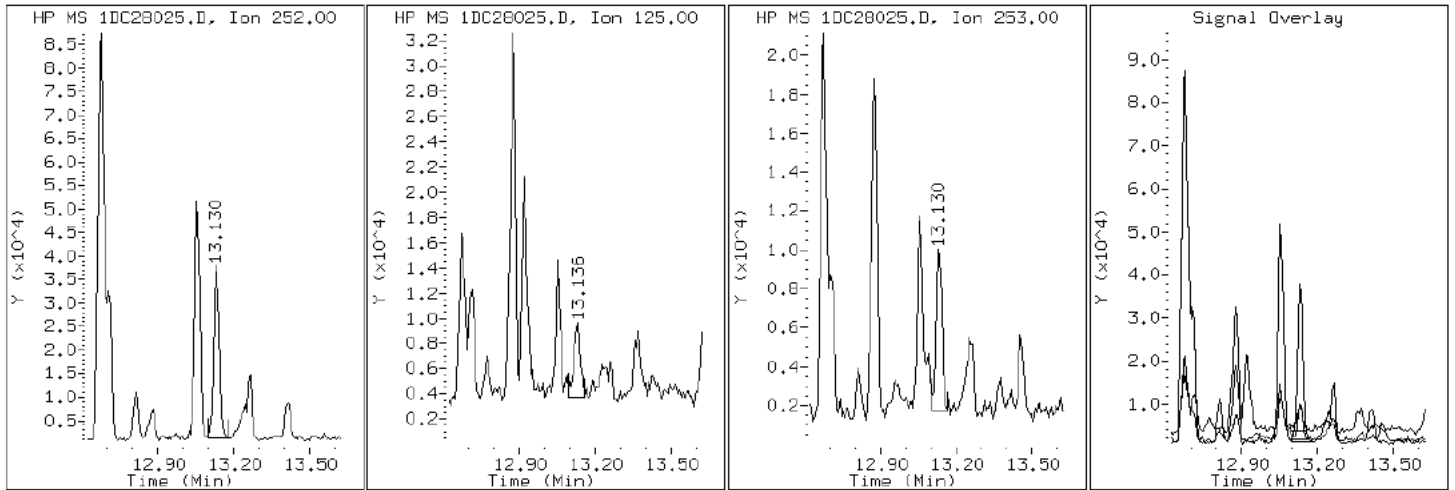
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

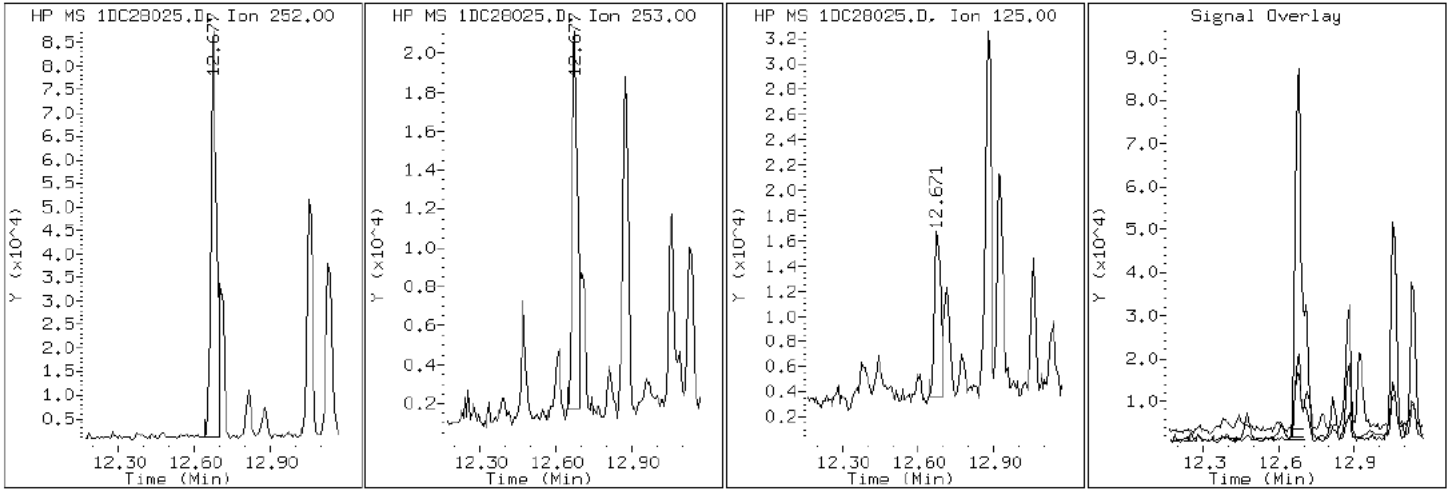
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

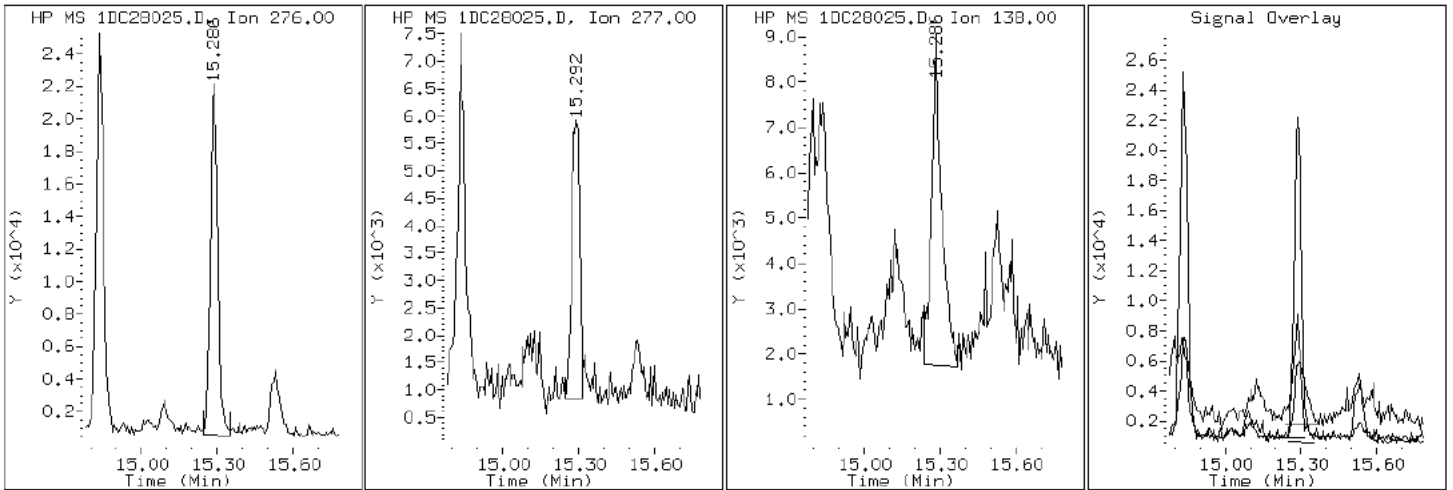
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

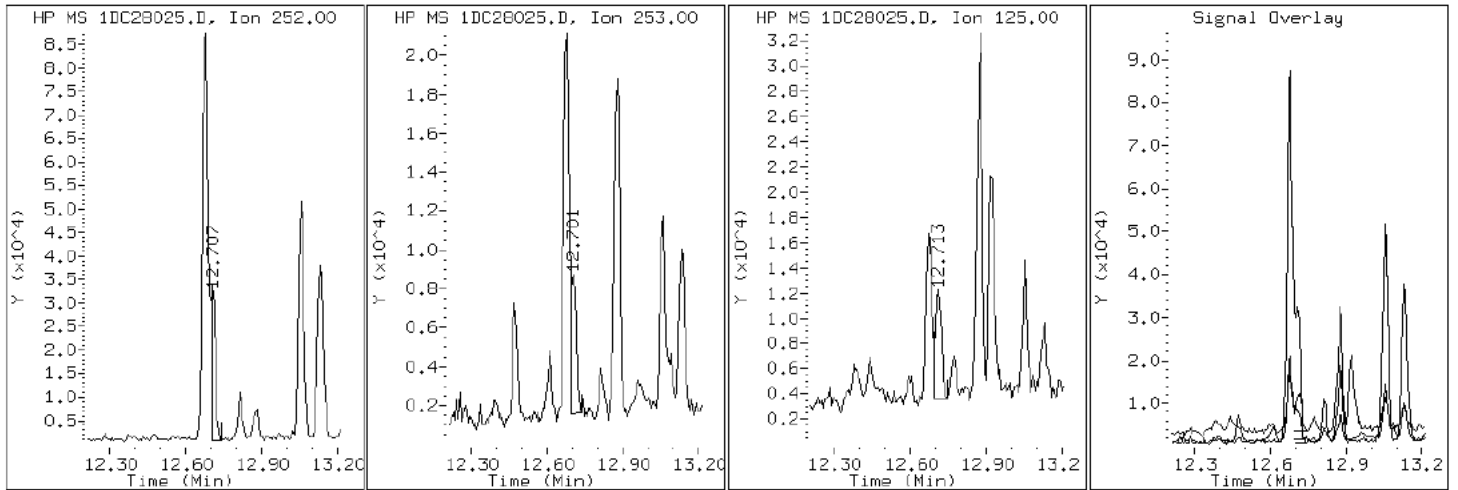
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

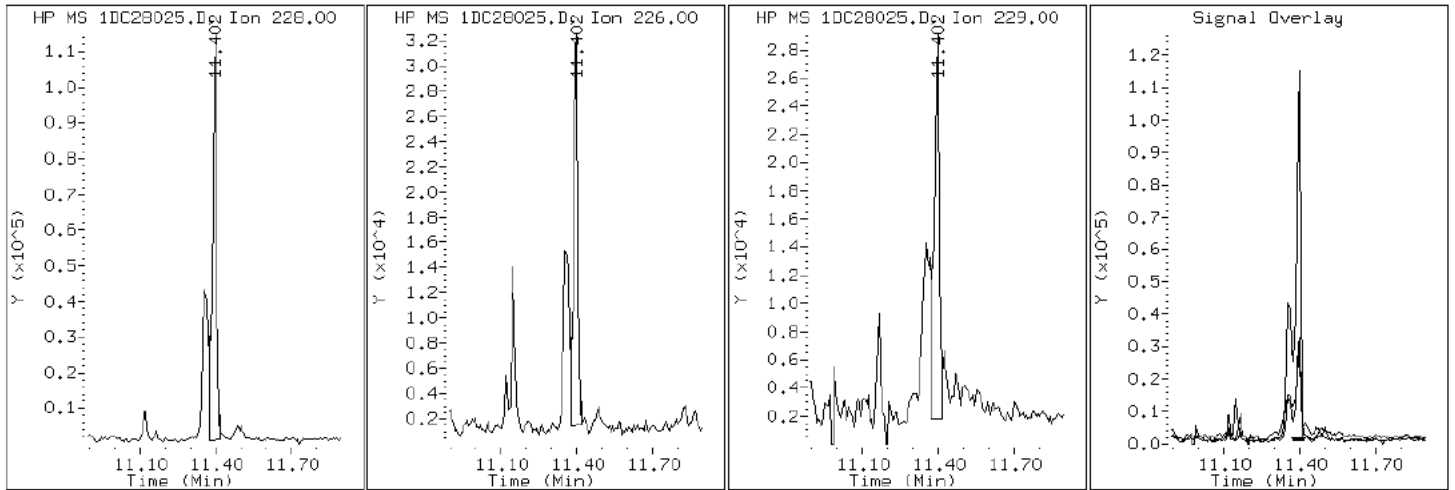
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

18 Chrysene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

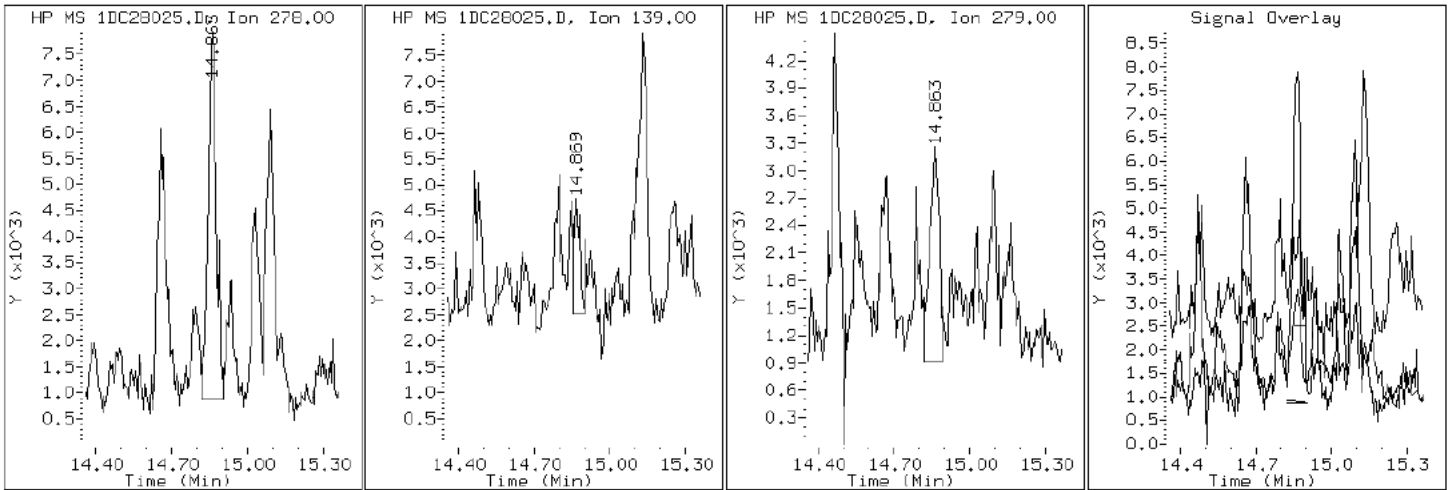
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

24 Dibenzo (a,h)anthracene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

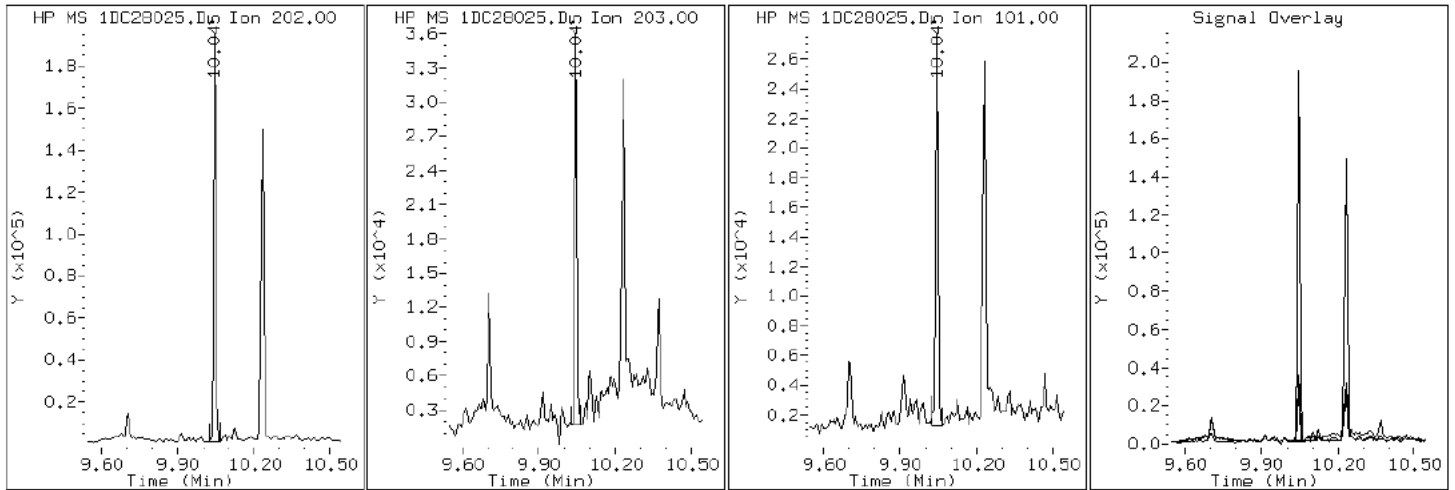
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

14 Fluoranthene





Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

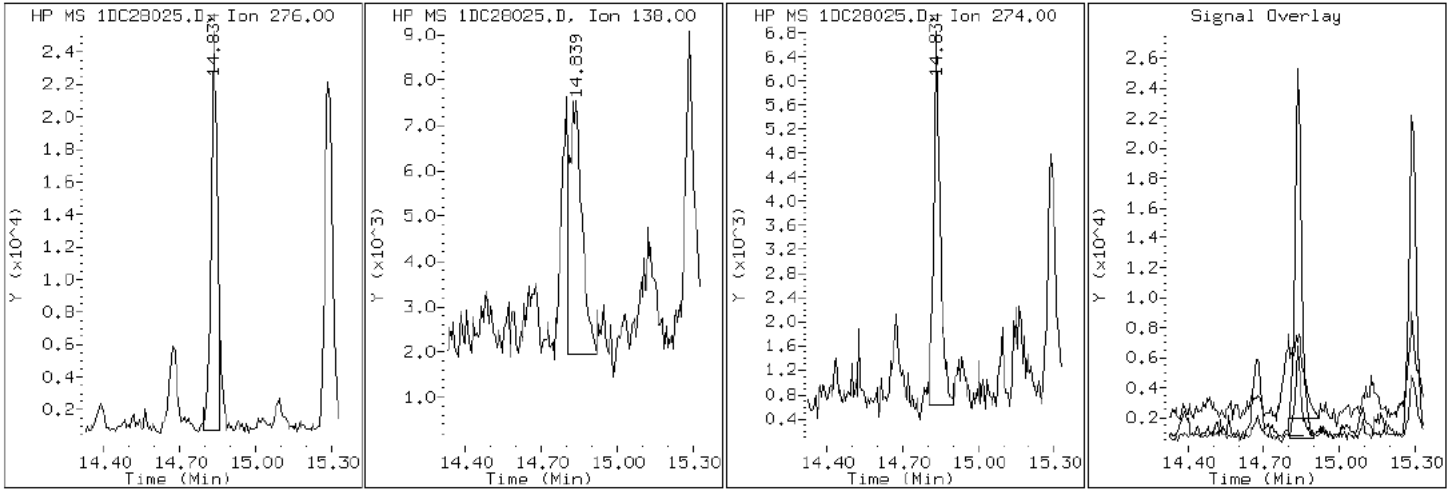
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

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



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

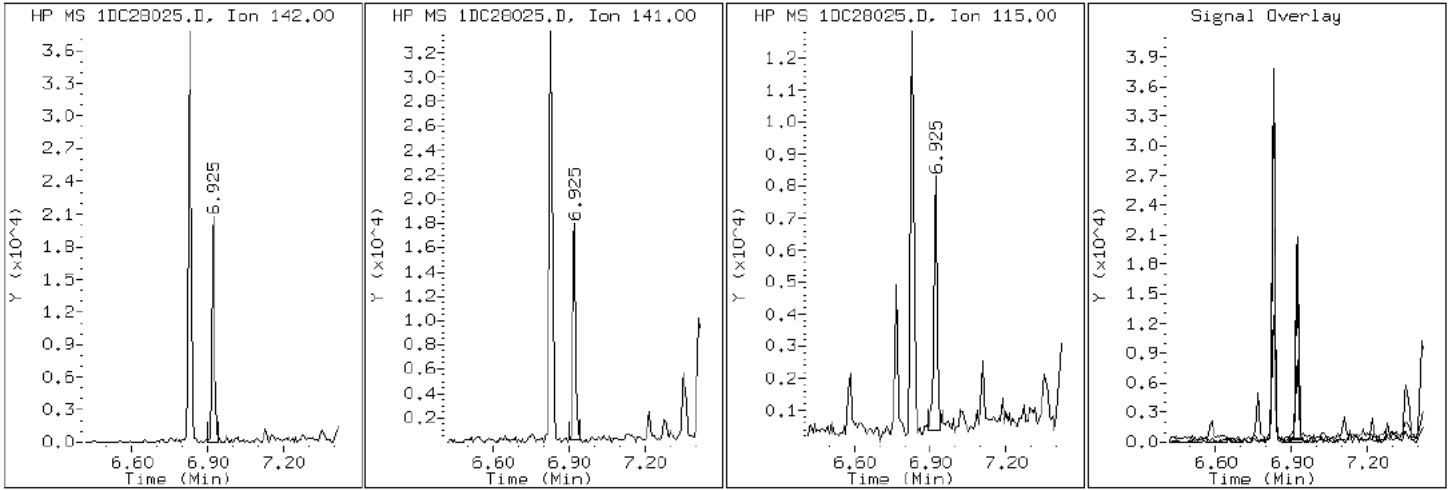
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

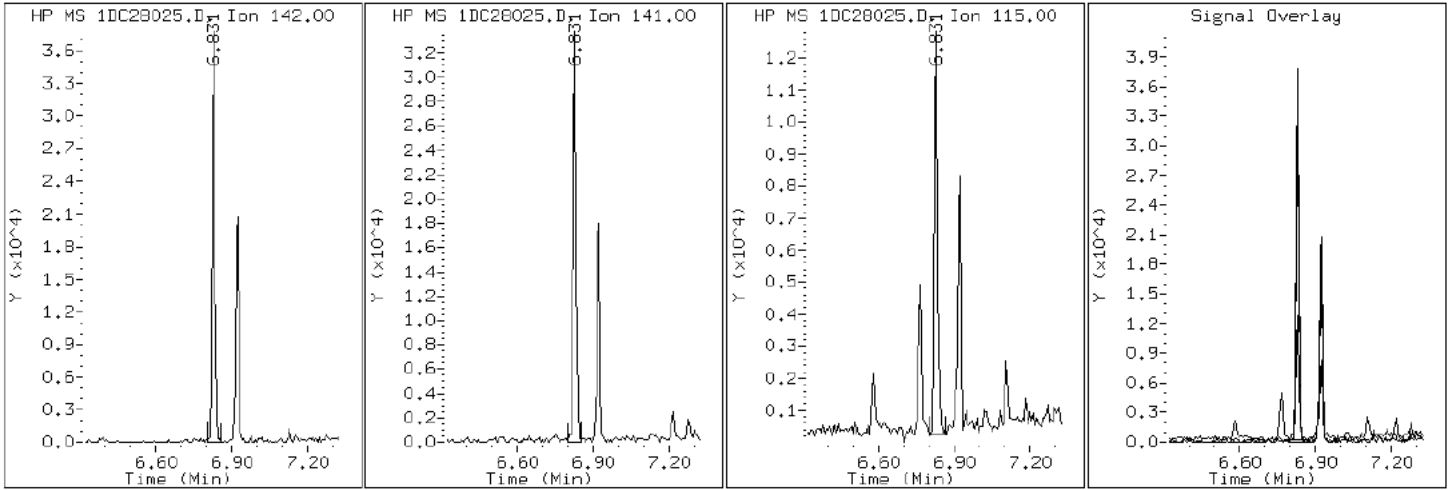
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

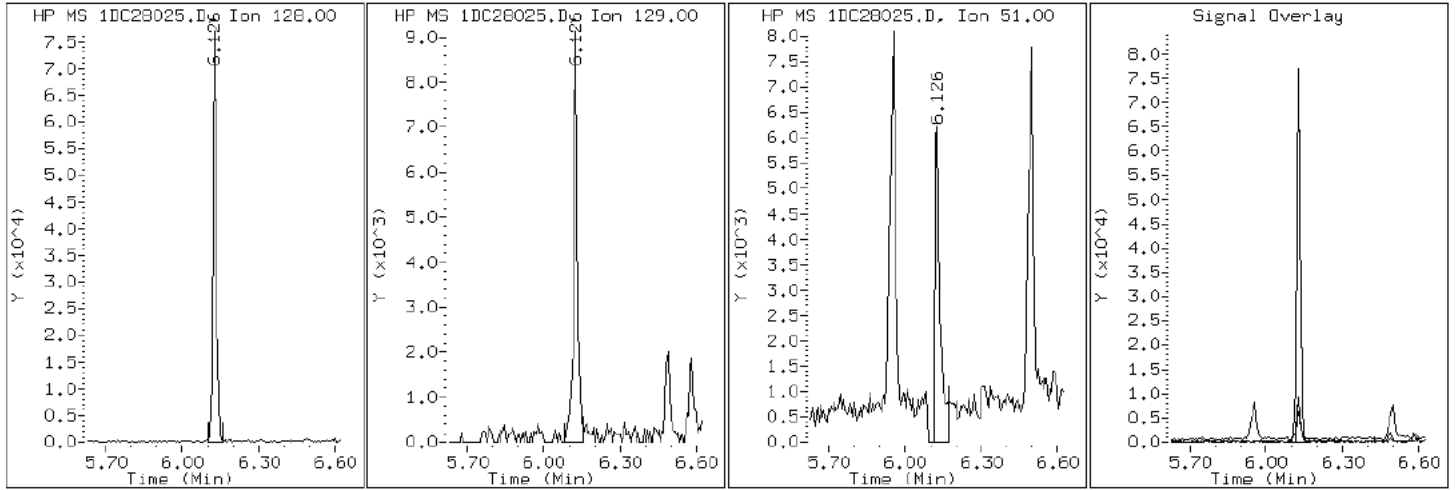
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

2 Naphthalene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

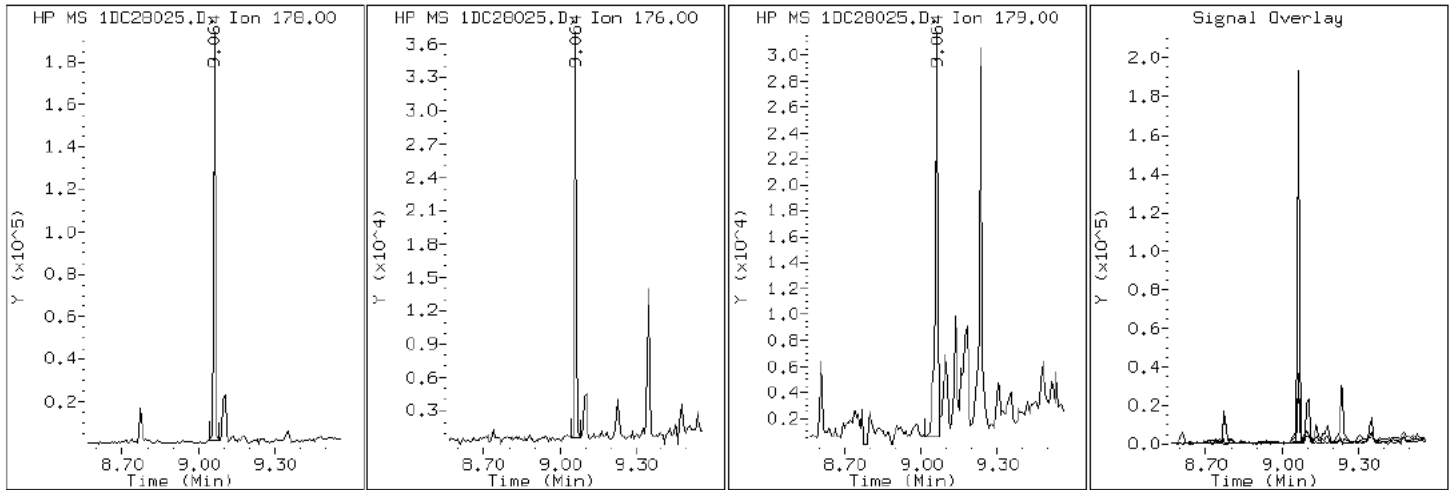
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28025.D

Date: 28-MAR-2013 20:57

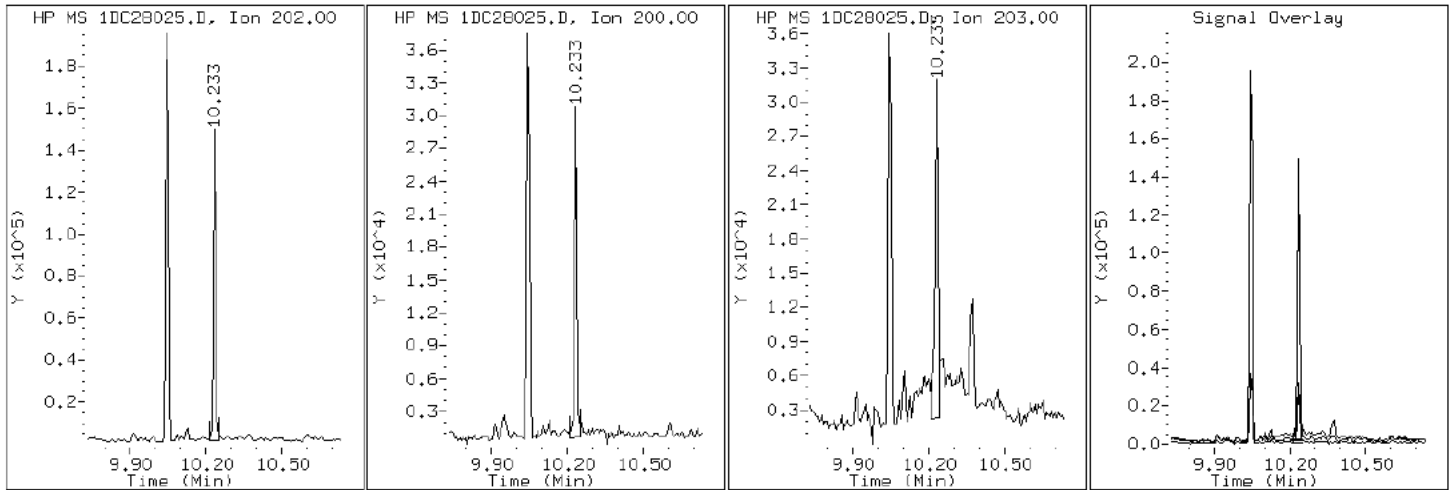
Client ID: FM0312B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-14-A

Operator: SCC

15 Pyrene

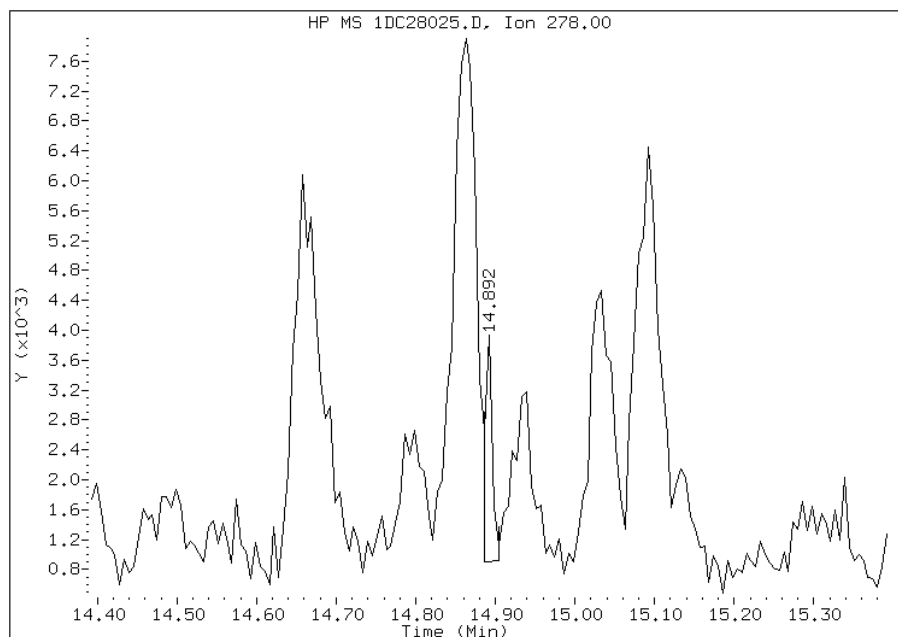


# Manual Integration Report

Data File: 1DC28025.D  
Inj. Date and Time: 28-MAR-2013 20:57  
Instrument ID: BSMSD.i  
Client ID: FM0312B-CS-SP  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

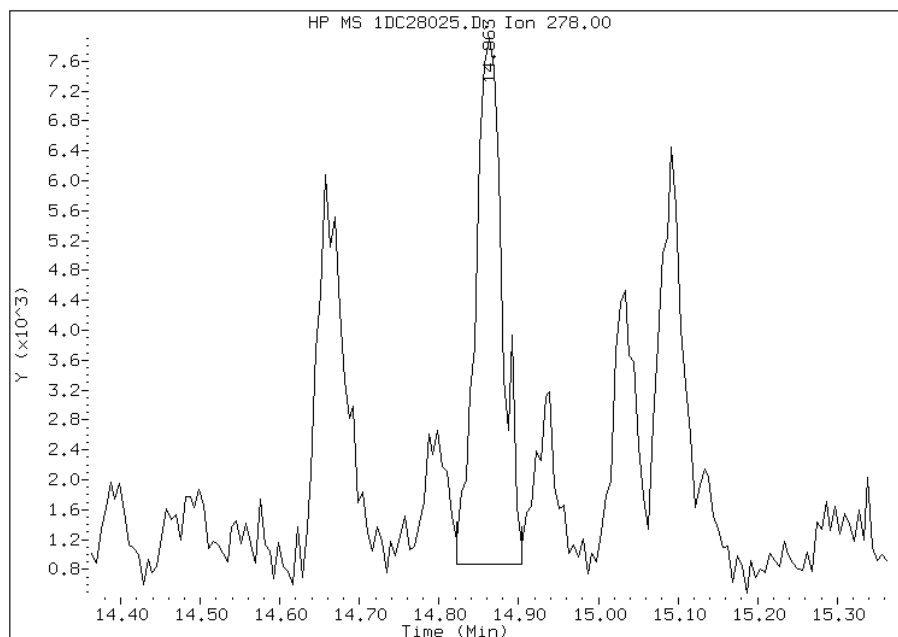
## Processing Integration Results

RT: 14.89  
Response: 2002  
Amount: 0  
Conc: 2



## Manual Integration Results

RT: 14.86  
Response: 16624  
Amount: 0  
Conc: 14



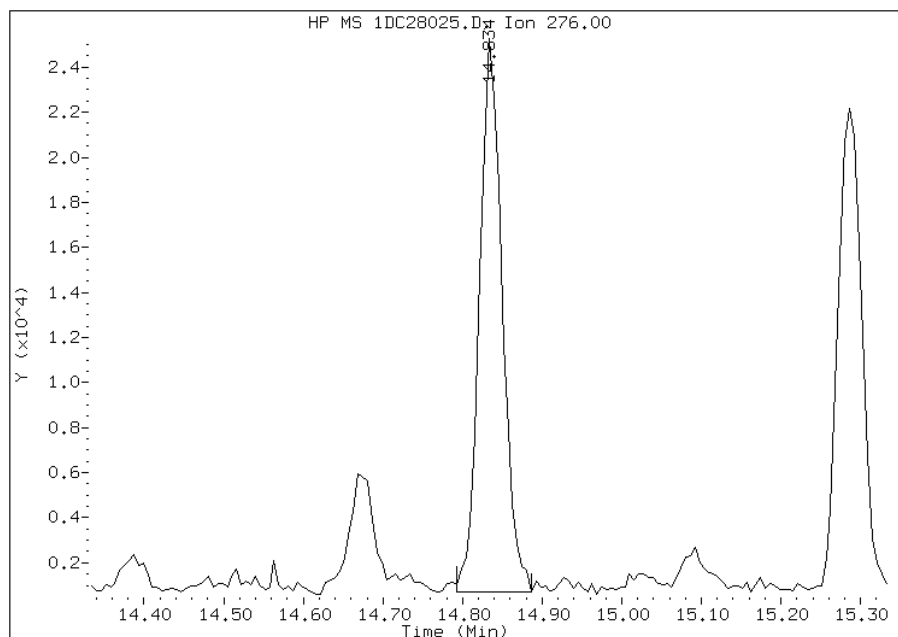
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:06  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DC28025.D  
Inj. Date and Time: 28-MAR-2013 20:57  
Instrument ID: BSMSD.i  
Client ID: FM0312B-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

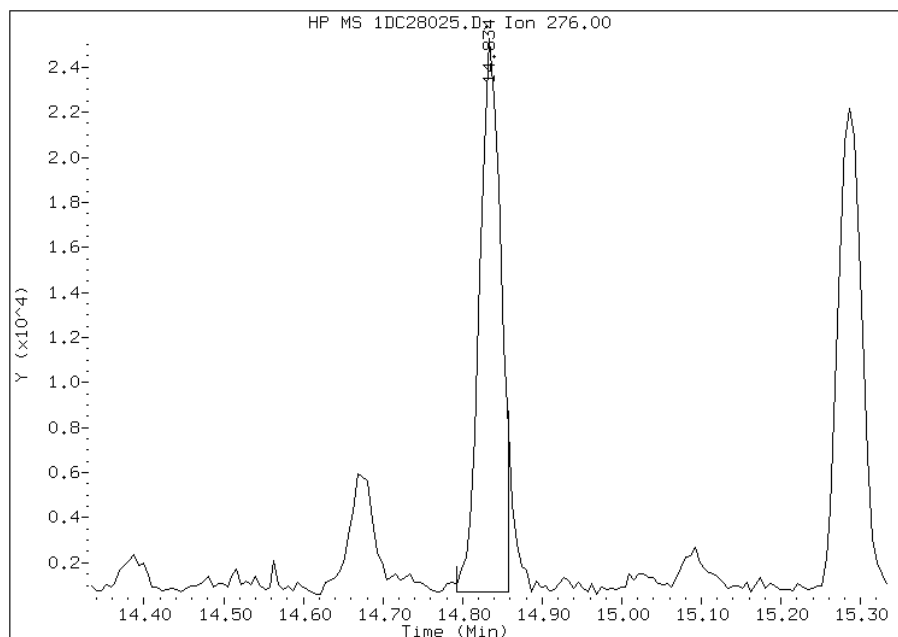
## Processing Integration Results

RT: 14.83  
Response: 48344  
Amount: 0  
Conc: 38



## Manual Integration Results

RT: 14.83  
Response: 45509  
Amount: 0  
Conc: 35



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:06  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0312C-CS-SP Lab Sample ID: 680-88632-15  
 Matrix: Solid Lab File ID: 1DC28026.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 09:51  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.23(g) Date Analyzed: 03/28/2013 21:20  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 18.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	13	J	48	6.0
120-12-7	Anthracene	20		10	5.1
56-55-3	Benzo[a]anthracene	43		9.6	4.7
50-32-8	Benzo[a]pyrene	39		13	6.3
205-99-2	Benzo[b]fluoranthene	78		15	7.3
191-24-2	Benzo[g,h,i]perylene	31		24	5.3
207-08-9	Benzo[k]fluoranthene	24		9.6	4.3
218-01-9	Chrysene	62		11	5.4
53-70-3	Dibenz(a,h)anthracene	11	J	24	4.9
206-44-0	Fluoranthene	62		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	24	8.6
90-12-0	1-Methylnaphthalene	20	J	48	5.3
91-57-6	2-Methylnaphthalene	26	J	48	8.6
91-20-3	Naphthalene	25	J	48	5.3
85-01-8	Phenanthrene	48		9.6	4.7
129-00-0	Pyrene	50		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatle 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28026.D  
 Lab Smp Id: 680-88632-A-15-A Client Smp ID: FM0312C-CS-SP  
 Inj Date : 28-MAR-2013 21:20  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-15-A  
 Misc Info : 680-88632-A-15-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 26  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	18.223	% 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	6.111	6.102	(1.000)	4164069	40.0000	
* 6 Acenaphthene-d10	164	7.785	7.777	(1.000)	2640416	40.0000	
* 9 Phenanthrene-d10	188	9.048	9.040	(1.000)	4478238	40.0000	
\$ 13 o-Terphenyl	230	9.354	9.351	(1.034)	361337	5.21775	420
* 17 Chrysene-d12	240	11.381	11.373	(1.000)	4545599	40.0000	
* 22 Perylene-d12	264	13.243	13.223	(1.000)	4388016	40.0000	
2 Naphthalene	128	6.128	6.126	(1.003)	34227	0.30727	25
3 2-Methylnaphthalene	142	6.833	6.825	(1.118)	22915	0.32294	26
4 1-Methylnaphthalene	142	6.921	6.919	(1.133)	16503	0.24836	20
5 Acenaphthylene	152	7.656	7.653	(0.983)	19233	0.16522	13
8 Fluorene	166	8.249	8.247	(1.060)	3405	0.04106	3.3(Q)
10 Phenanthrene	178	9.066	9.064	(1.002)	75741	0.59581	48
11 Anthracene	178	9.101	9.099	(1.006)	32051	0.25200	20
12 Carbazole	167	9.242	9.240	(1.021)	12481	0.10977	8.8

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.047	10.045	(1.110)	103155	0.77758	62
15 Pyrene	202	10.235	10.233	(0.899)	87804	0.62272	50
16 Benzo(a)anthracene	228	11.357	11.349	(0.998)	67071	0.53895	43
18 Chrysene	228	11.398	11.396	(1.002)	99310	0.77296	62
19 Benzo(b)fluoranthene	252	12.673	12.671	(0.957)	110412	0.97756	78
20 Benzo(k)fluoranthene	252	12.709	12.712	(0.960)	35247	0.29805	24
21 Benzo(a)pyrene	252	13.132	13.124	(0.992)	54331	0.48610	39
23 Indeno(1,2,3-cd)pyrene	276	14.836	14.827	(1.120)	34749	0.29133	23(M)
24 Dibenzo(a,h)anthracene	278	14.859	14.863	(1.122)	15180	0.13780	11(M)
25 Benzo(g,h,i)perylene	276	15.282	15.280	(1.154)	44496	0.39126	31

QC Flag Legend

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

Data File: 1DC28026.D

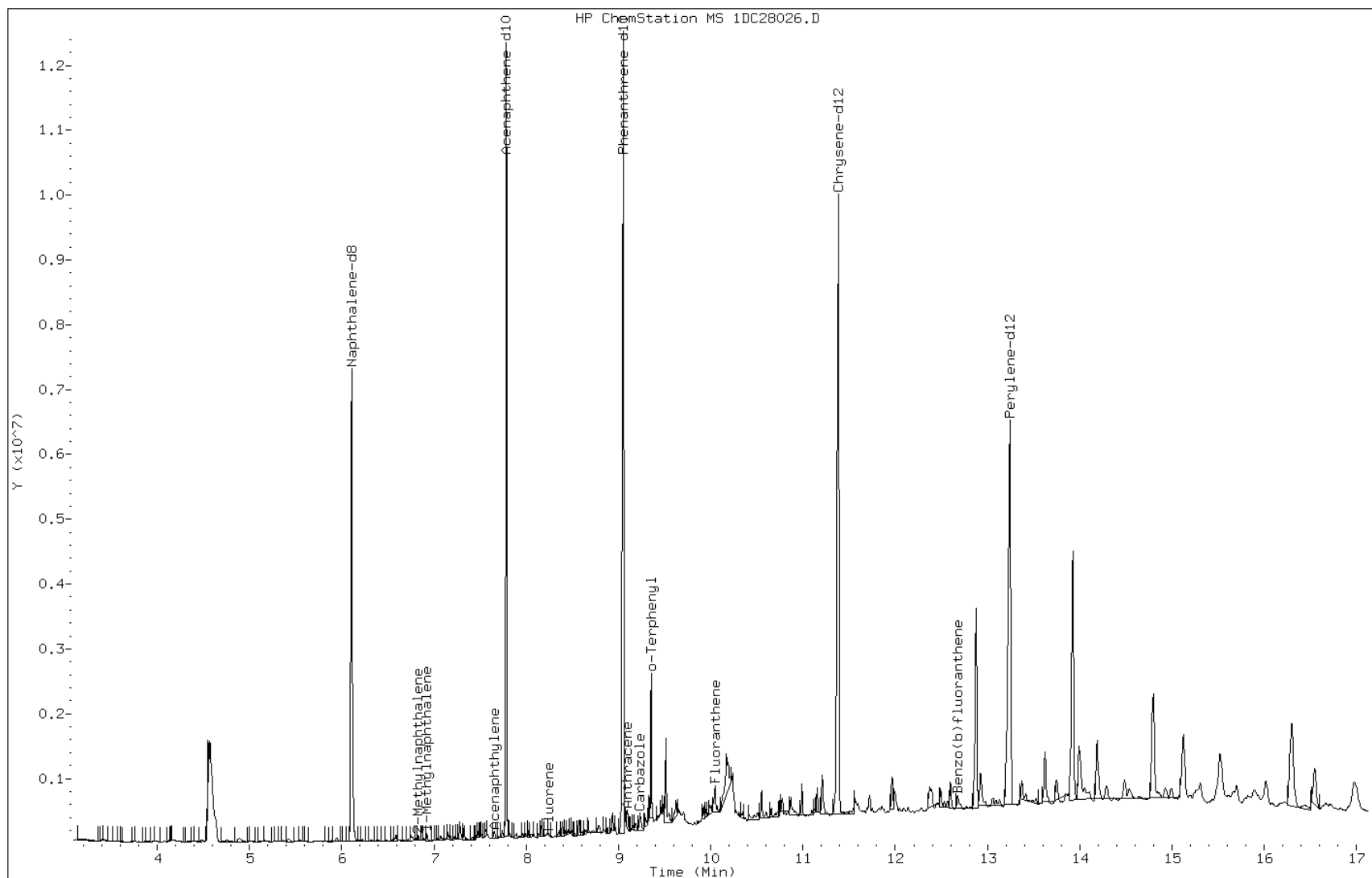
Date: 28-MAR-2013 21:20

Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

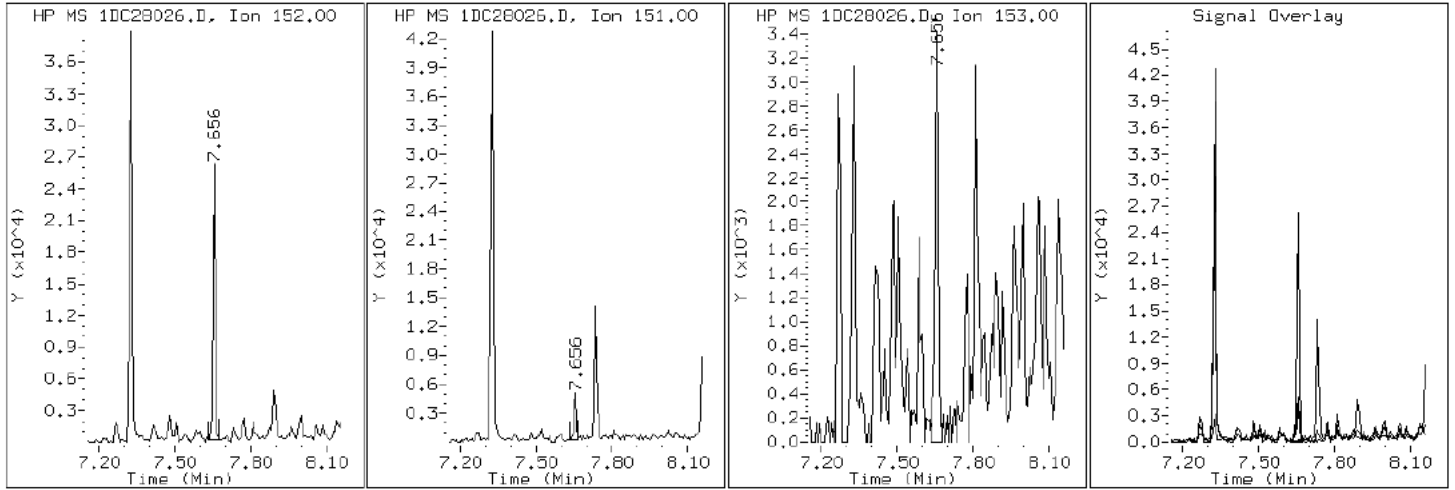
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

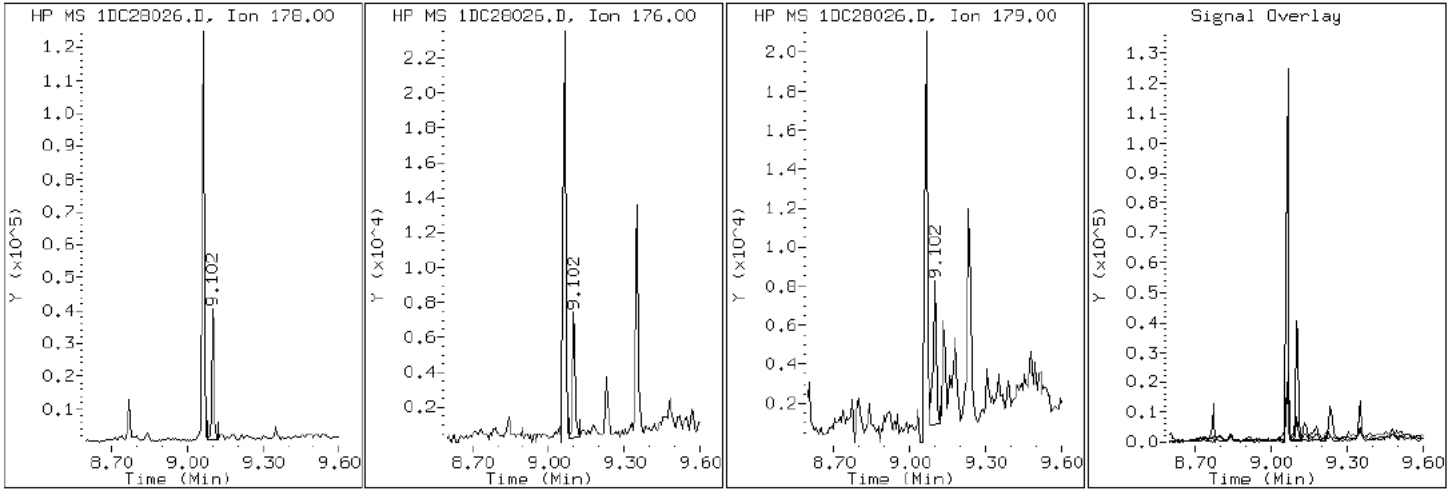
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

11 Anthracene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

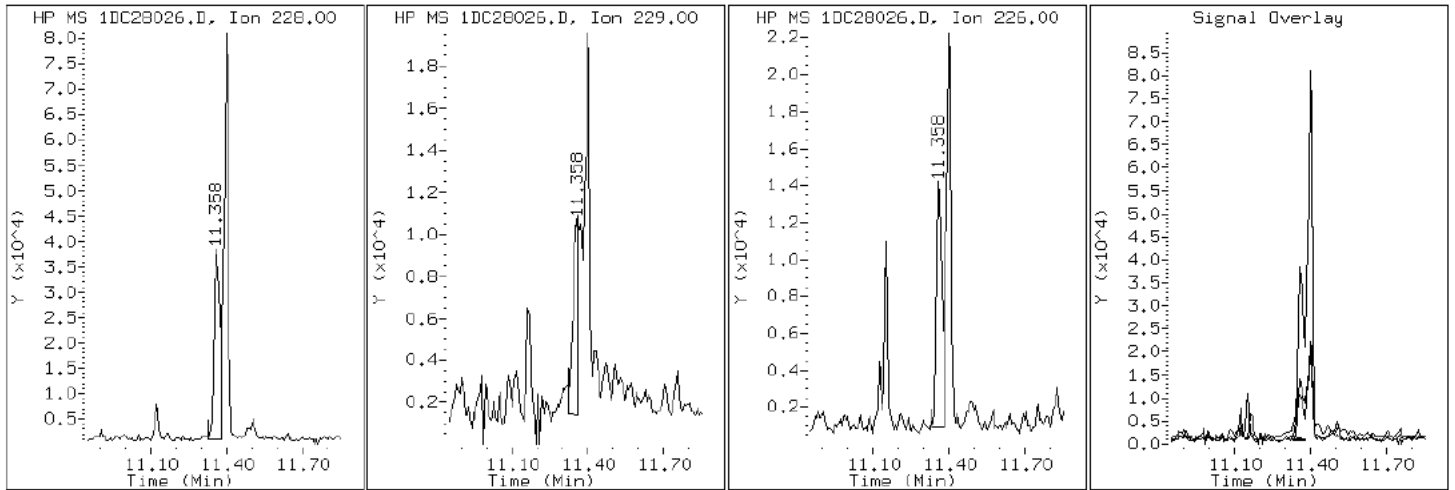
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

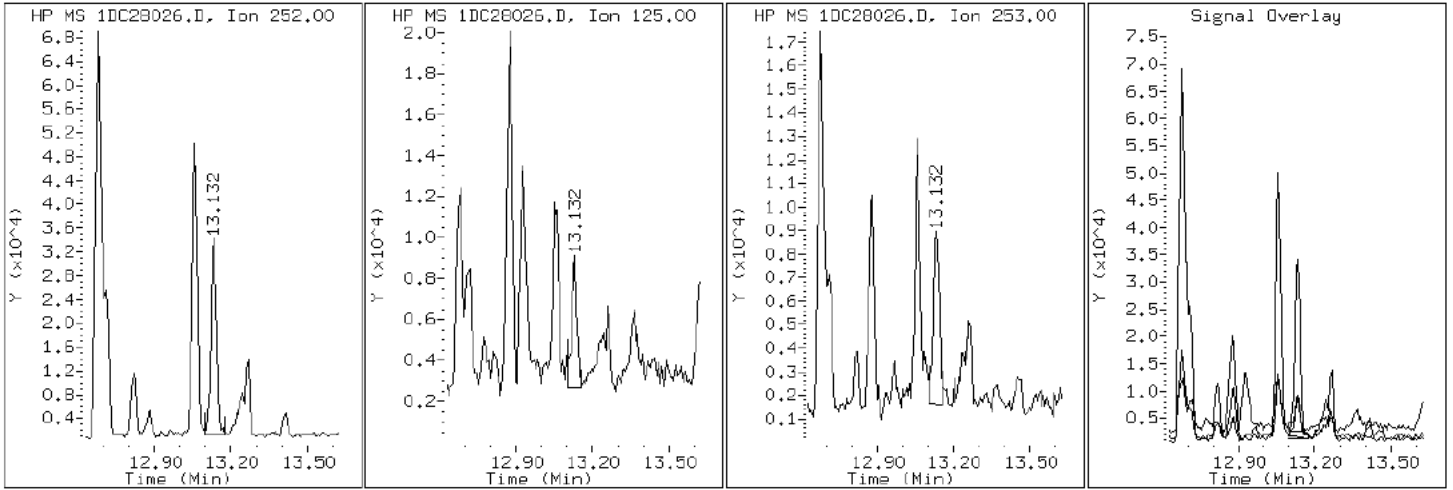
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

21 Benzo(a)pyrene





Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

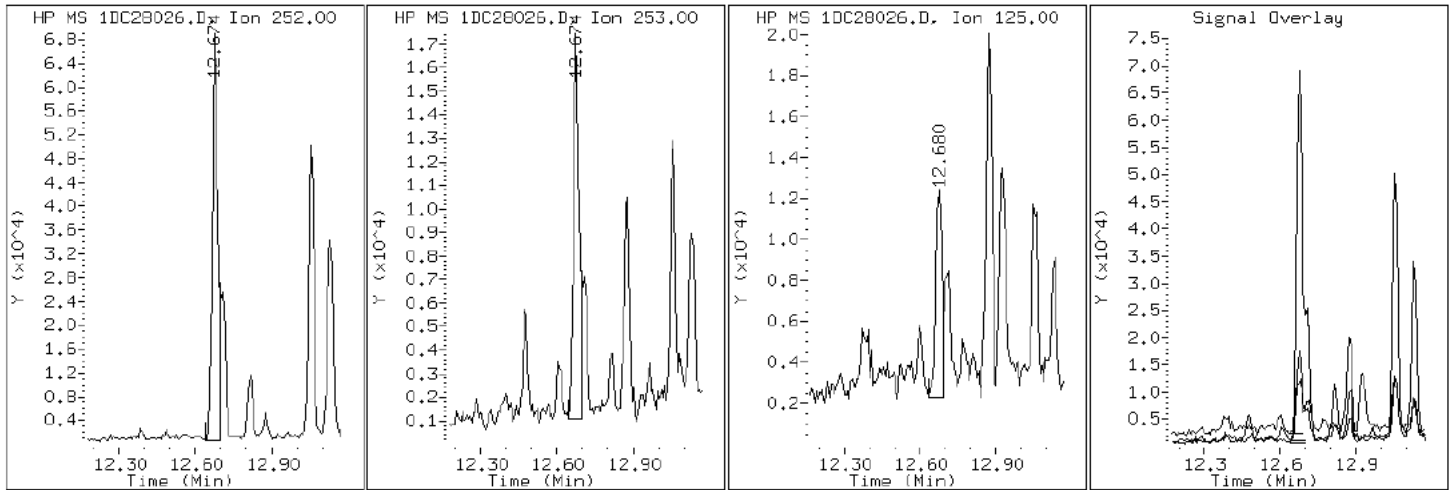
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

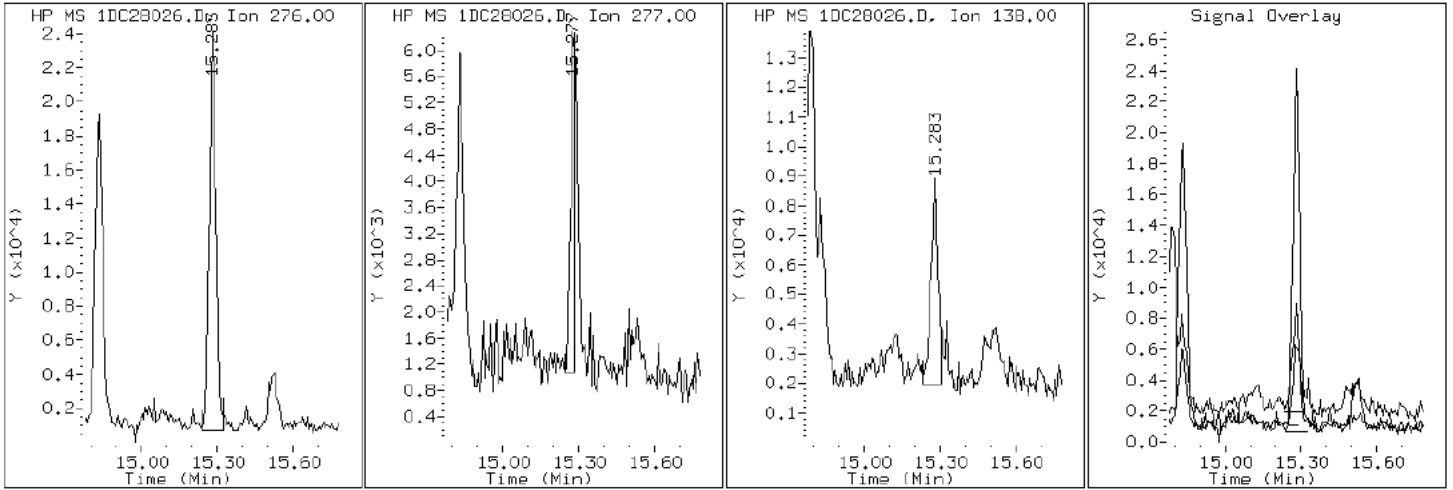
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

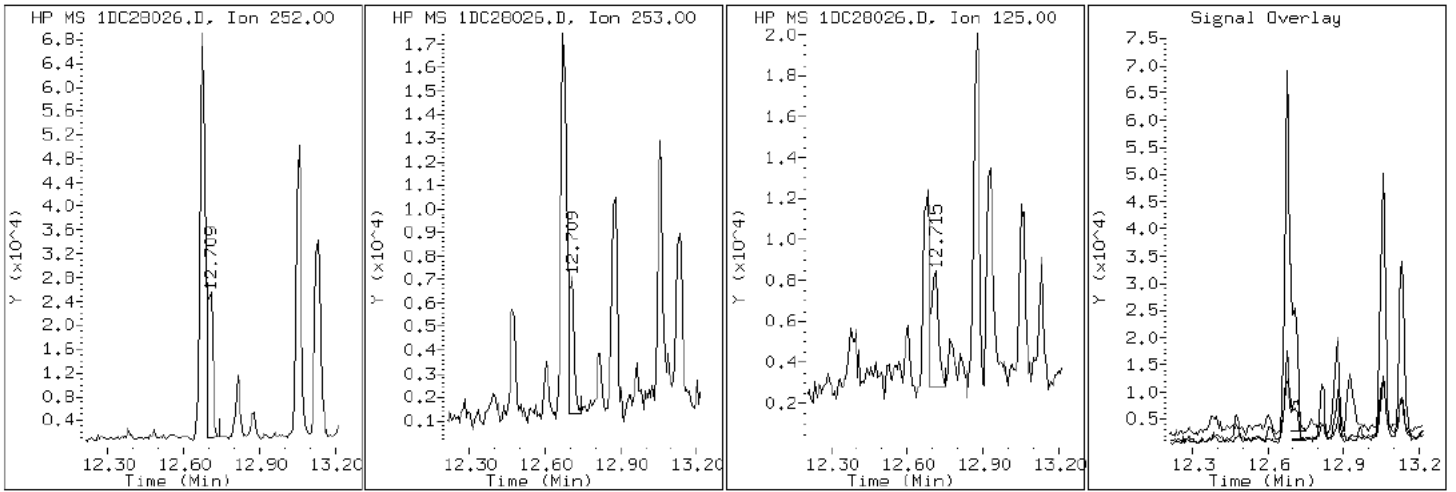
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

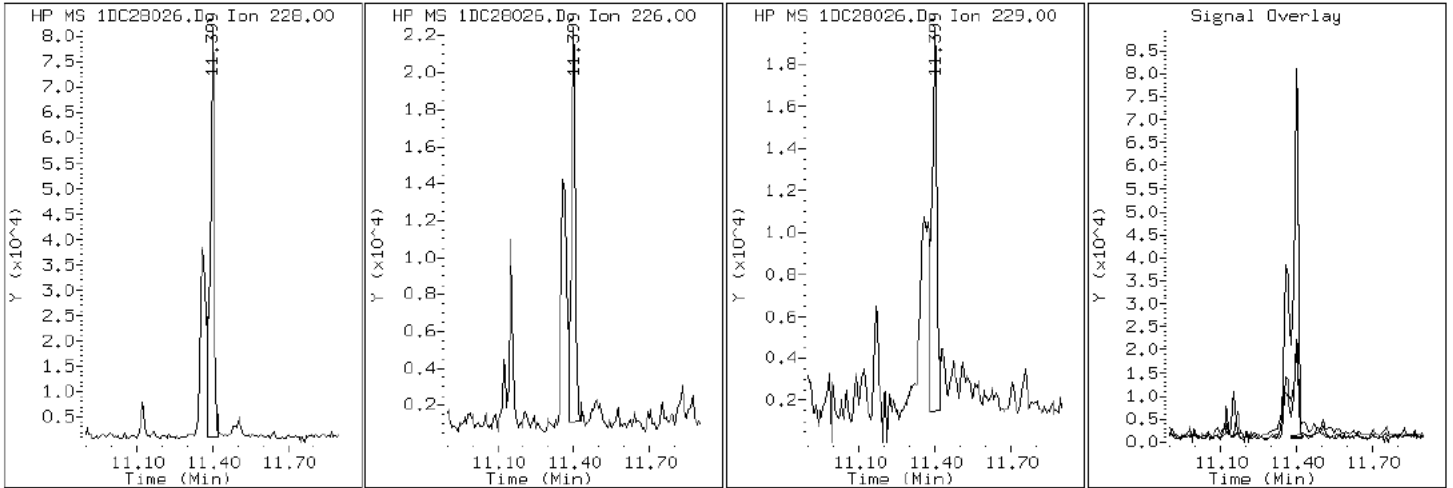
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

18 Chrysene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

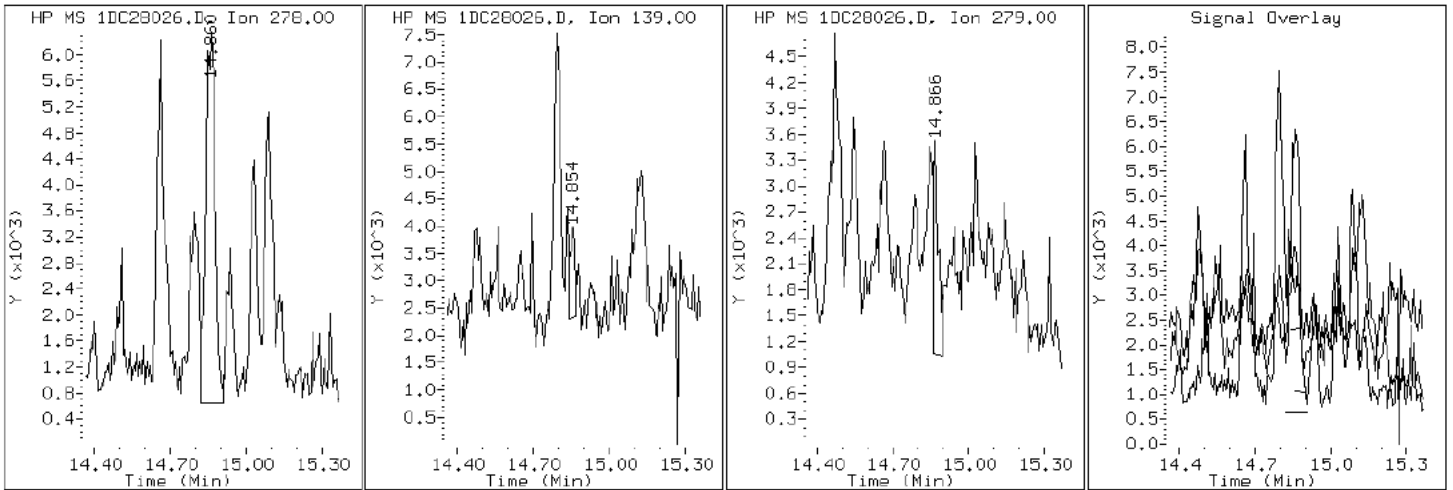
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

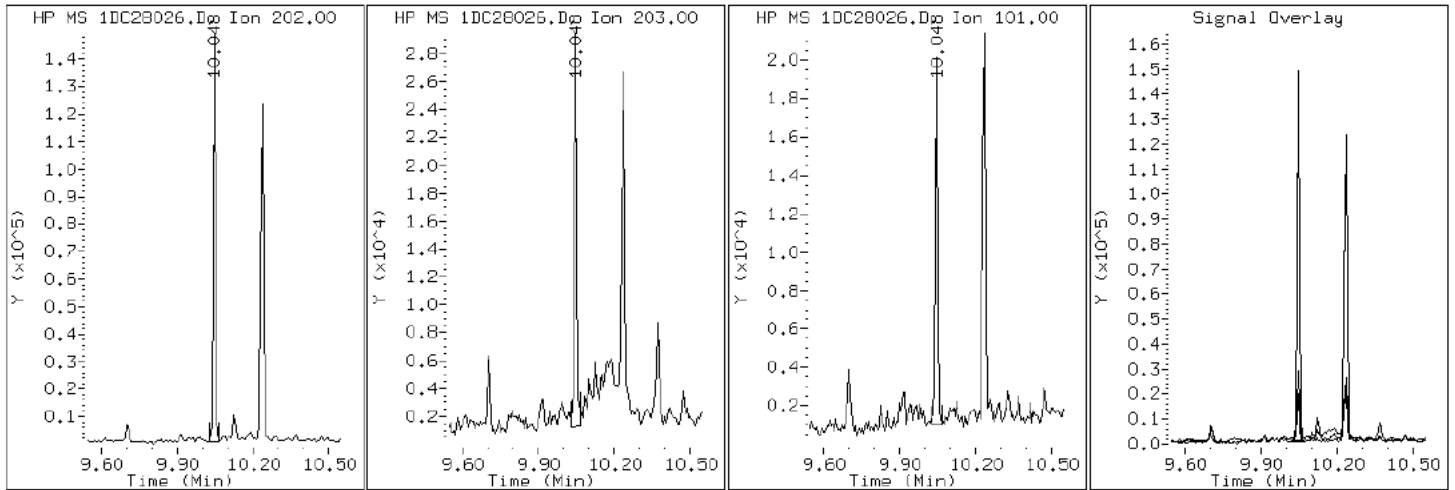
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

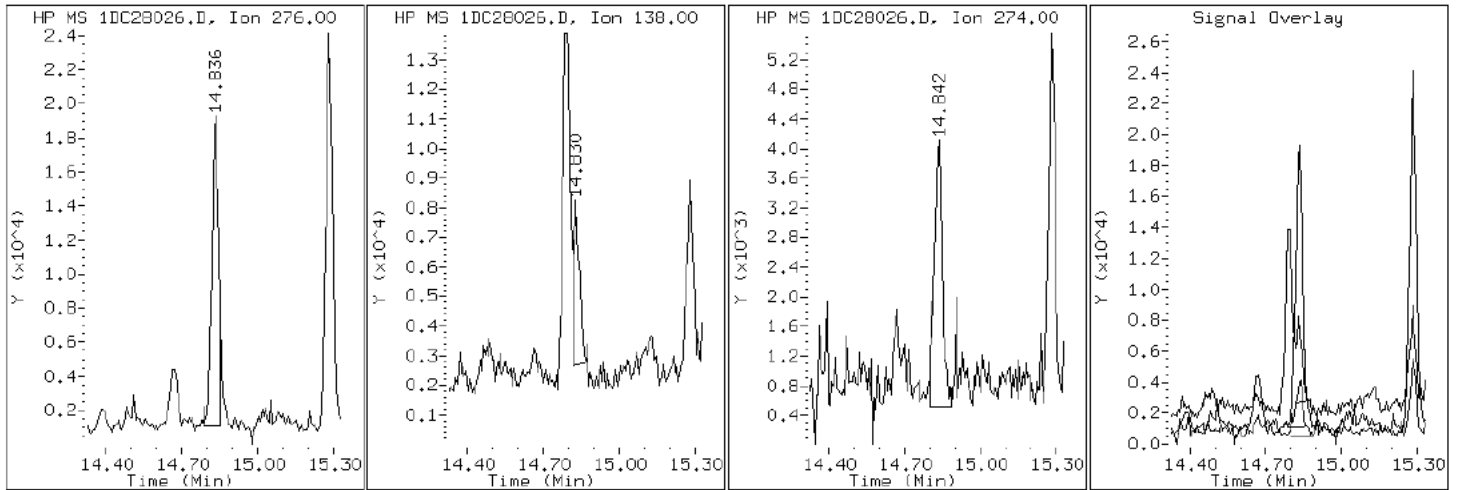
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

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



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

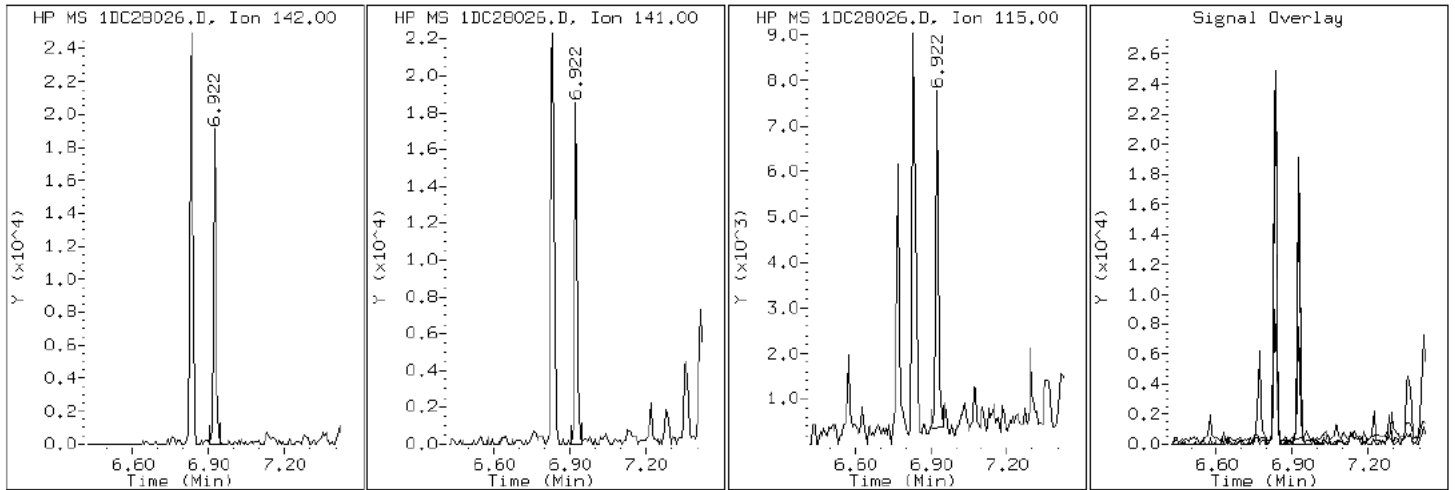
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

4 1-Methylnaphthalene





Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

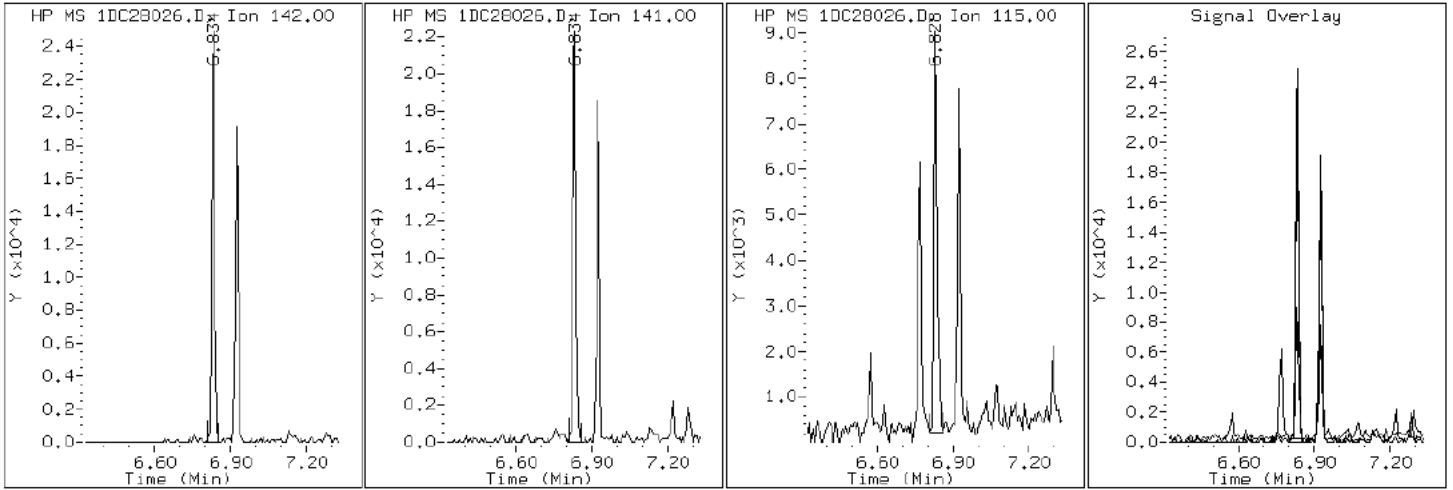
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

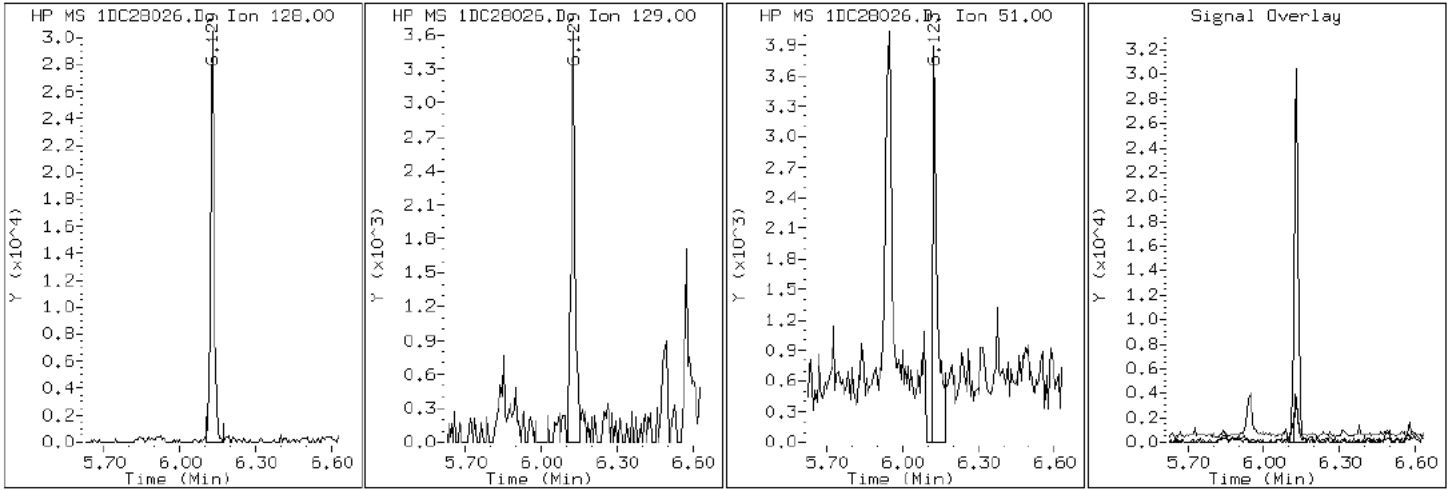
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

2 Naphthalene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

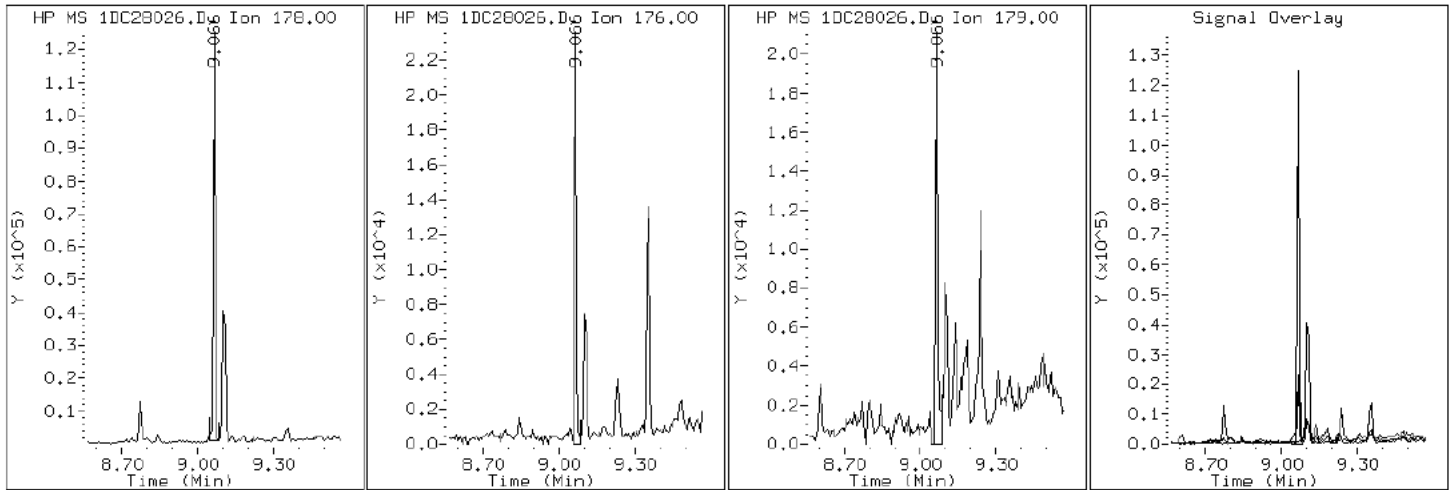
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28026.D

Date: 28-MAR-2013 21:20

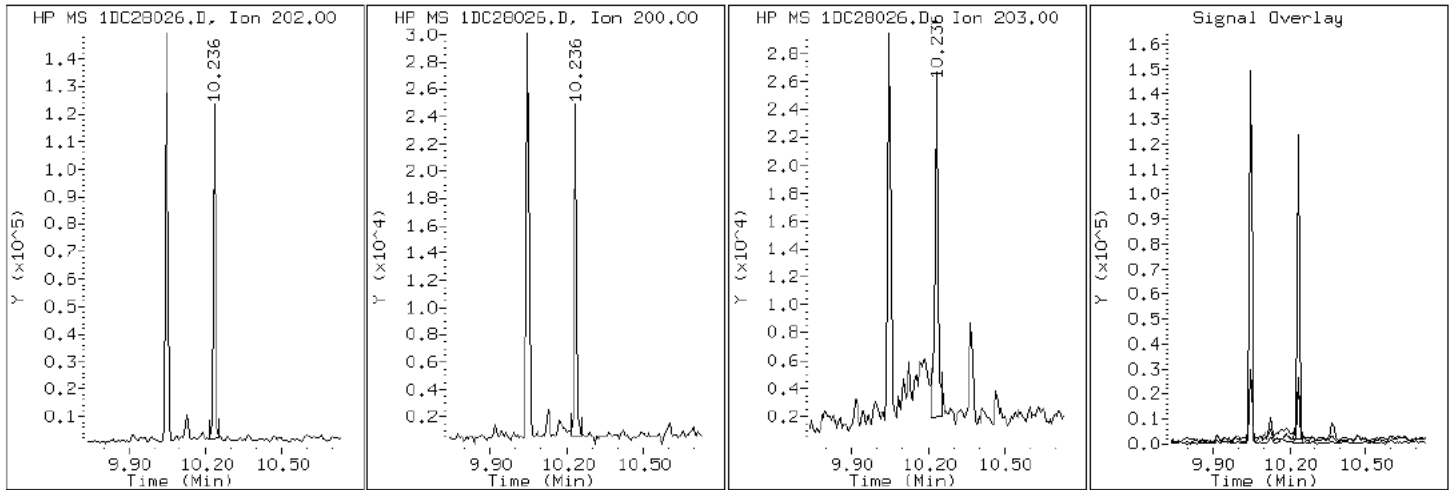
Client ID: FM0312C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-15-A

Operator: SCC

15 Pyrene

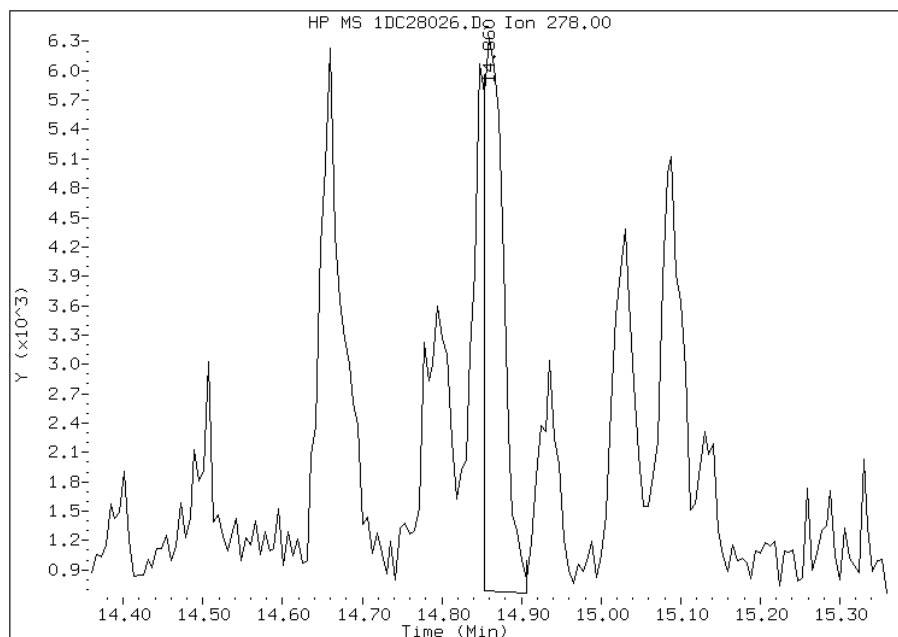


# Manual Integration Report

Data File: 1DC28026.D  
Inj. Date and Time: 28-MAR-2013 21:20  
Instrument ID: BSMSD.i  
Client ID: FM0312C-CS-SP  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

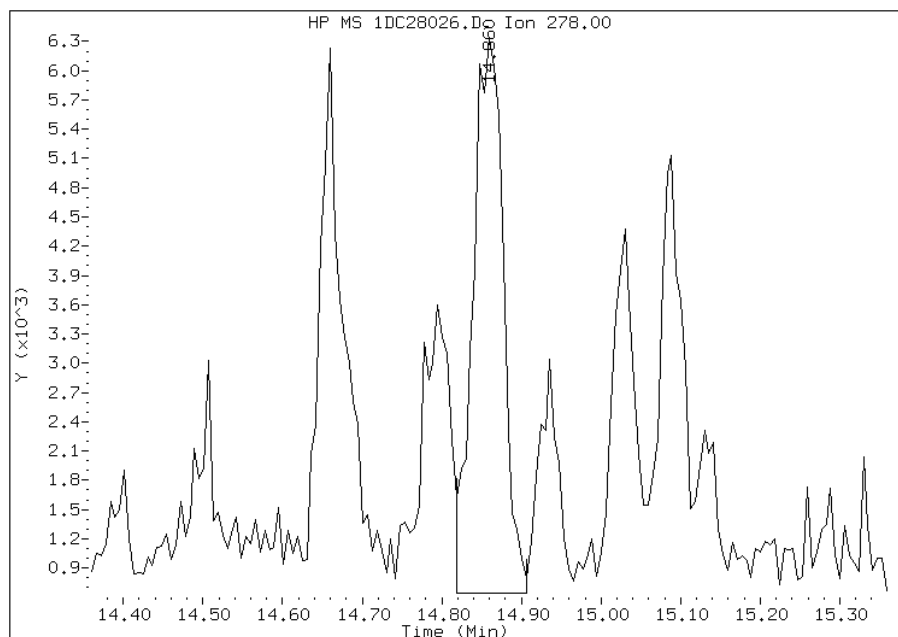
## Processing Integration Results

RT: 14.86  
Response: 9841  
Amount: 0  
Conc: 7



## Manual Integration Results

RT: 14.86  
Response: 15180  
Amount: 0  
Conc: 11



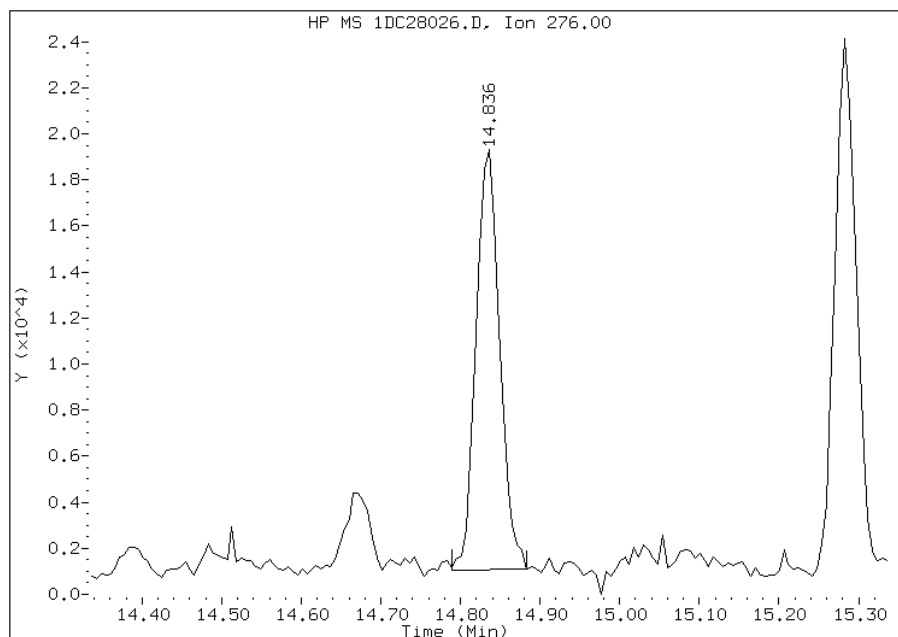
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:07  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DC28026.D  
Inj. Date and Time: 28-MAR-2013 21:20  
Instrument ID: BSMSD.i  
Client ID: FM0312C-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

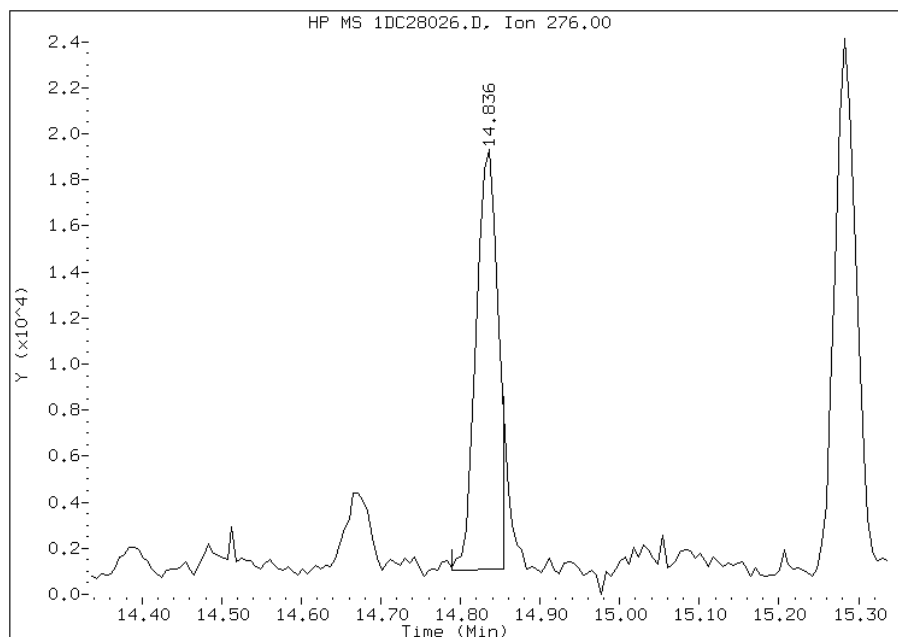
## Processing Integration Results

RT: 14.84  
Response: 37262  
Amount: 0  
Conc: 25



## Manual Integration Results

RT: 14.84  
Response: 34749  
Amount: 0  
Conc: 23



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:07  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: FM0312D-CS-SP Lab Sample ID: 680-88632-16  
 Matrix: Solid Lab File ID: 1DC28027.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 09:45  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.20(g) Date Analyzed: 03/28/2013 21:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	30	J	50	6.3
120-12-7	Anthracene	44		11	5.3
56-55-3	Benzo[a]anthracene	110		10	4.9
50-32-8	Benzo[a]pyrene	97		13	6.5
205-99-2	Benzo[b]fluoranthene	180		15	7.7
191-24-2	Benzo[g,h,i]perylene	56		25	5.5
207-08-9	Benzo[k]fluoranthene	64		10	4.5
218-01-9	Chrysene	150		11	5.7
53-70-3	Dibenz(a,h)anthracene	23	J	25	5.2
206-44-0	Fluoranthene	180		25	5.0
86-73-7	Fluorene	19	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	50		25	8.9
90-12-0	1-Methylnaphthalene	58		50	5.5
91-57-6	2-Methylnaphthalene	81		50	8.9
91-20-3	Naphthalene	72		50	5.5
85-01-8	Phenanthrene	160		10	4.9
129-00-0	Pyrene	130		25	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\1D032813.b\1DC28027.D  
 Lab Smp Id: 680-88632-A-16-A Client Smp ID: FM0312D-CS-SP  
 Inj Date : 28-MAR-2013 21:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88632-A-16-A  
 Misc Info : 680-88632-A-16-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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	15.200	Weight Extracted
M	21.528	% 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	6.108	6.102	(1.000)	3932955	40.0000	
* 6 Acenaphthene-d10	164	7.788	7.777	(1.000)	2529464	40.0000	
* 9 Phenanthrene-d10	188	9.051	9.040	(1.000)	4203473	40.0000	
\$ 13 o-Terphenyl	230	9.351	9.351	(1.033)	387873	5.96704	500
* 17 Chrysene-d12	240	11.384	11.373	(1.000)	4383306	40.0000	
* 22 Perylene-d12	264	13.246	13.223	(1.000)	4192886	40.0000	
2 Naphthalene	128	6.125	6.126	(1.003)	90731	0.86239	72
3 2-Methylnaphthalene	142	6.830	6.825	(1.118)	64402	0.96095	80
4 1-Methylnaphthalene	142	6.924	6.919	(1.134)	43225	0.68875	58
5 Acenaphthylene	152	7.653	7.653	(0.983)	40009	0.35877	30
8 Fluorene	166	8.252	8.247	(1.060)	17942	0.22584	19
10 Phenanthrene	178	9.063	9.064	(1.001)	232075	1.94494	160
11 Anthracene	178	9.104	9.099	(1.006)	62373	0.52245	44
12 Carbazole	167	9.245	9.240	(1.021)	29715	0.27843	23



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.050	10.045	(1.110)	270209	2.16997	180
15 Pyrene	202	10.238	10.233	(0.899)	216552	1.59269	130
16 Benzo(a)anthracene	228	11.366	11.349	(0.998)	156140	1.30111	110
18 Chrysene	228	11.401	11.396	(1.002)	221236	1.78570	150
19 Benzo(b)fluoranthene	252	12.682	12.671	(0.957)	228342	2.11577	180
20 Benzo(k)fluoranthene	252	12.712	12.712	(0.960)	86325	0.76394	64(H)
21 Benzo(a)pyrene	252	13.135	13.124	(0.992)	123660	1.15787	97
23 Indeno(1,2,3-cd)pyrene	276	14.833	14.827	(1.120)	67357	0.59098	50(M)
24 Dibenzo(a,h)anthracene	278	14.862	14.863	(1.122)	28251	0.26840	22(H)
25 Benzo(g,h,i)perylene	276	15.291	15.280	(1.154)	72035	0.66289	56

QC Flag Legend

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

Data File: 1DC28027.D

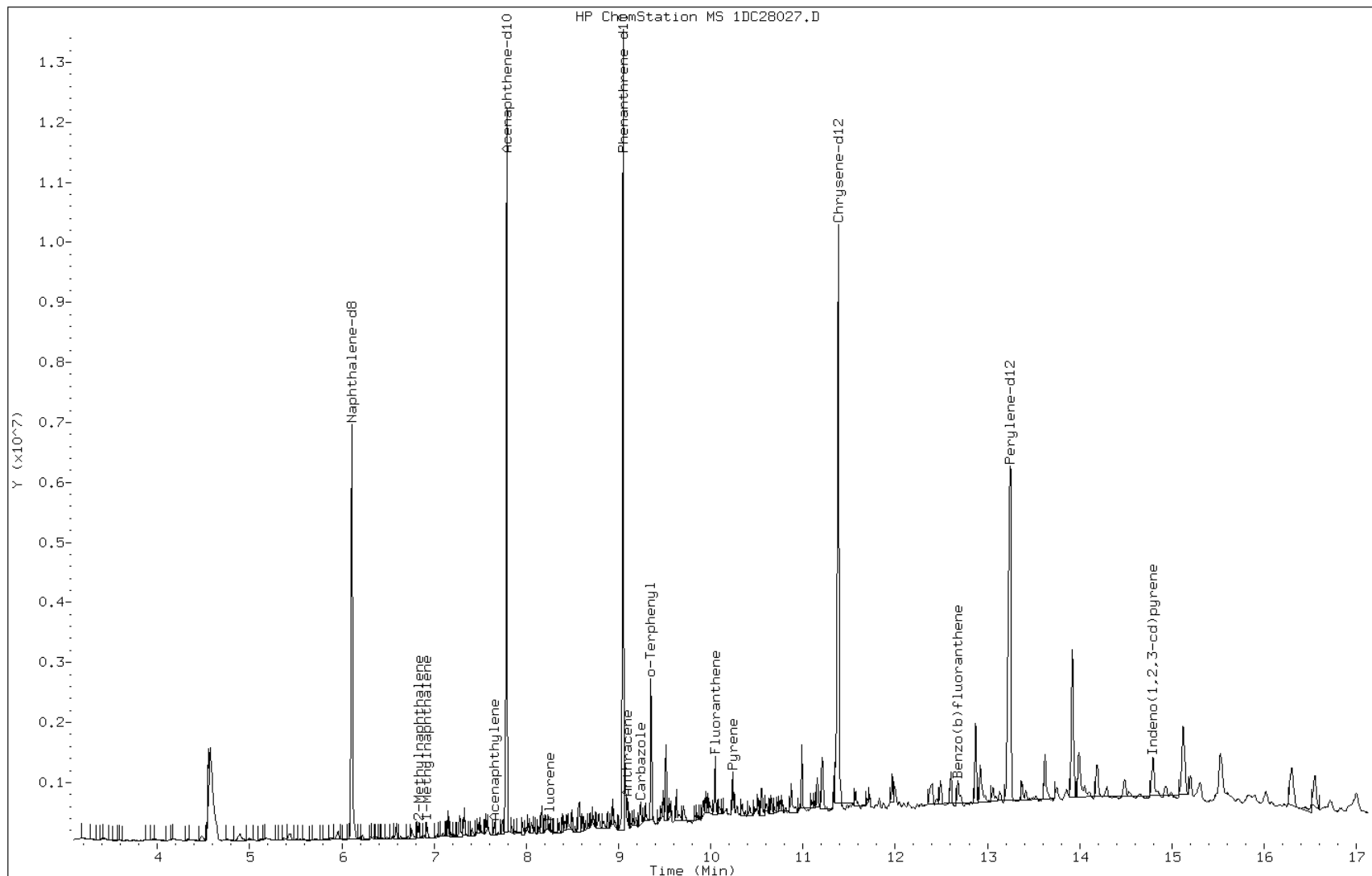
Date: 28-MAR-2013 21:42

Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

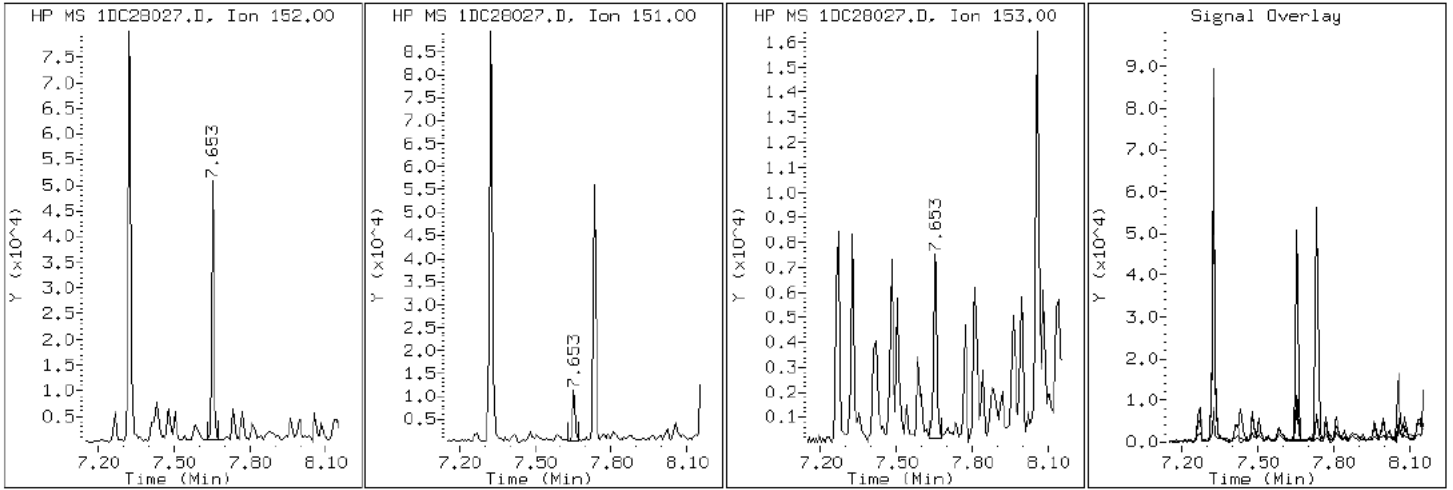
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

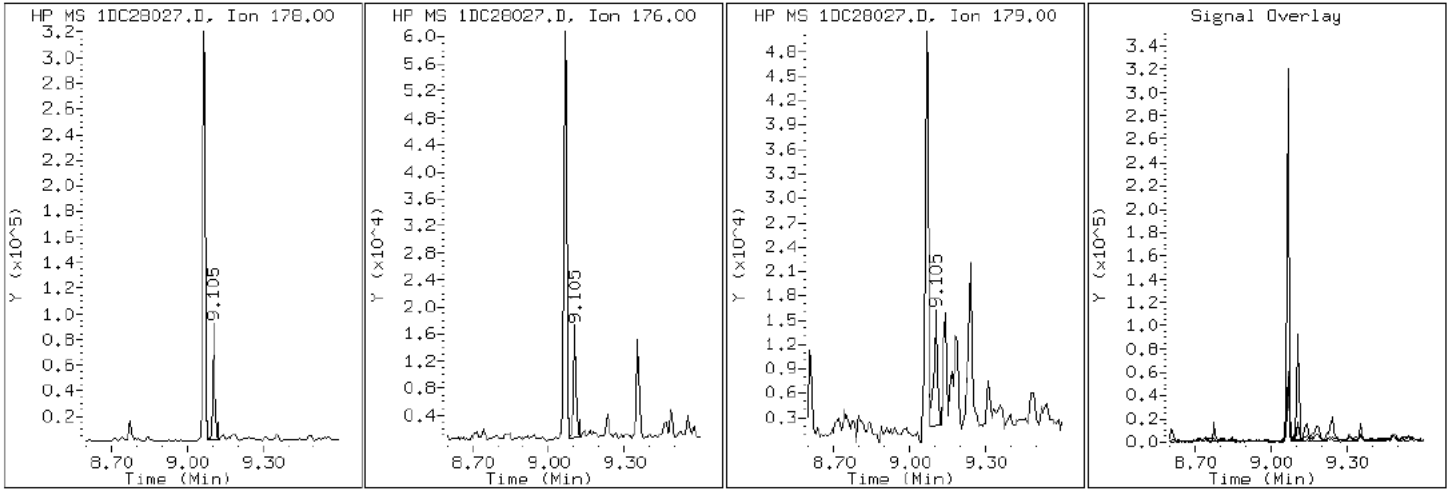
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

11 Anthracene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

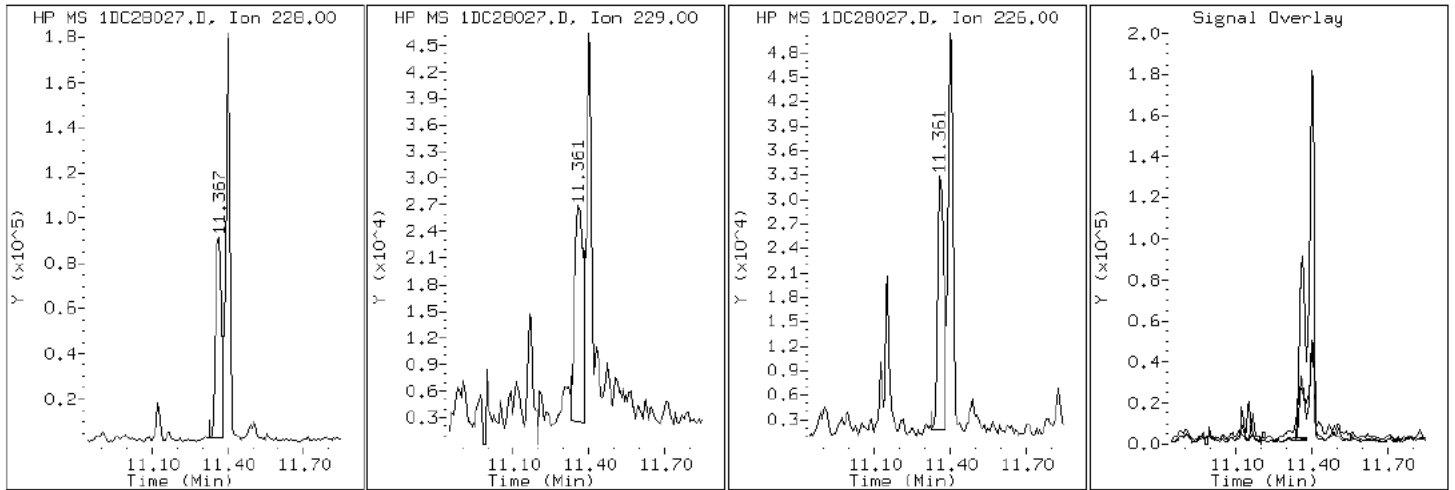
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

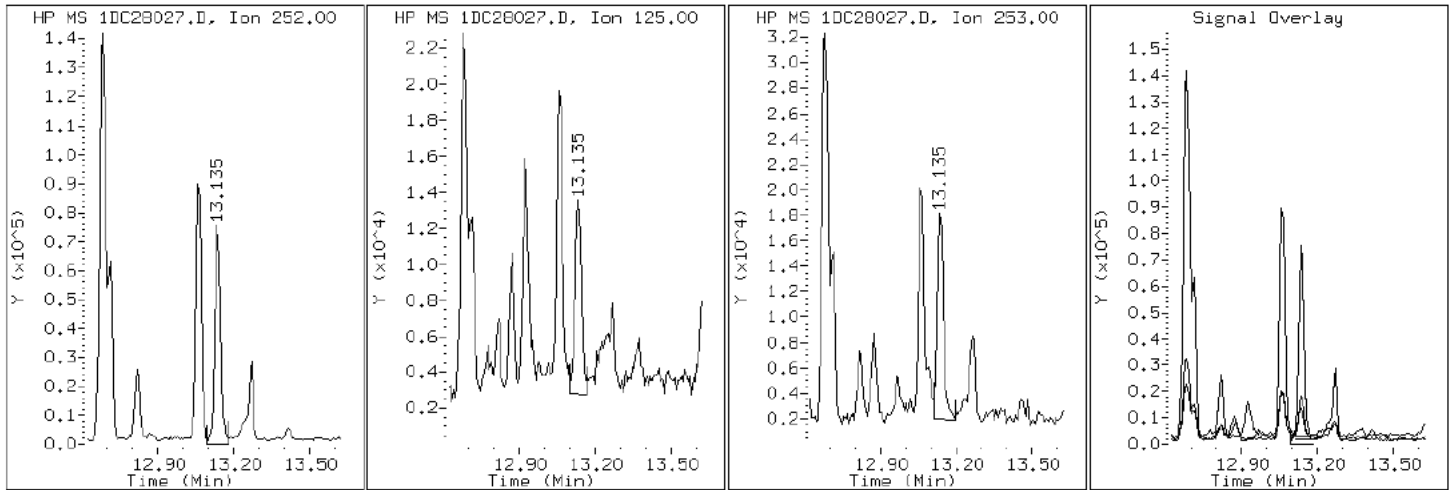
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

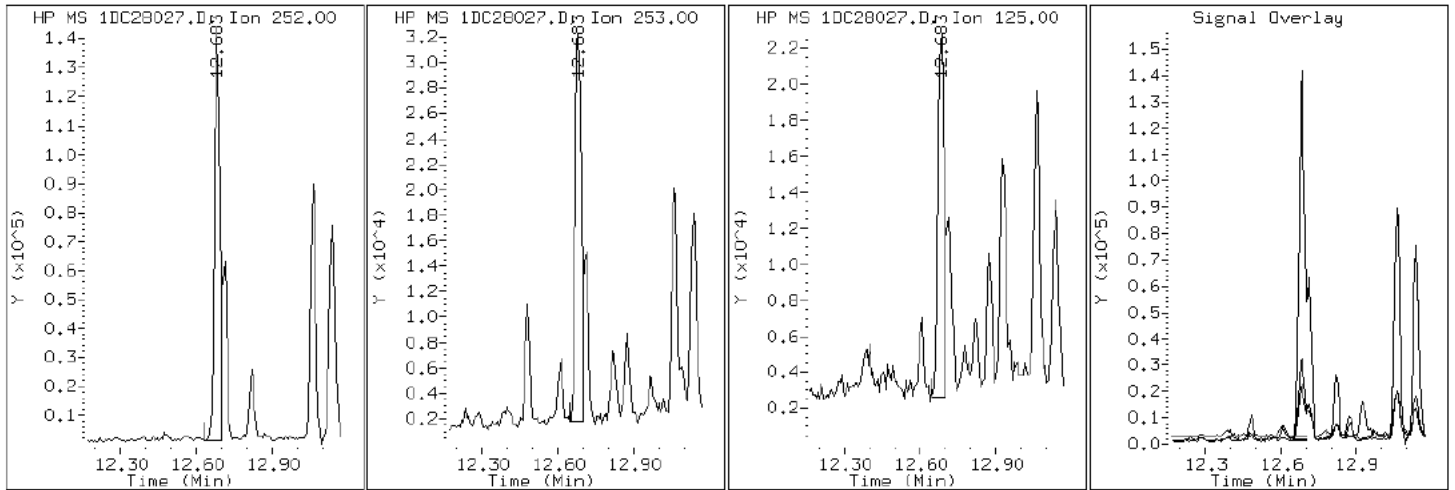
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

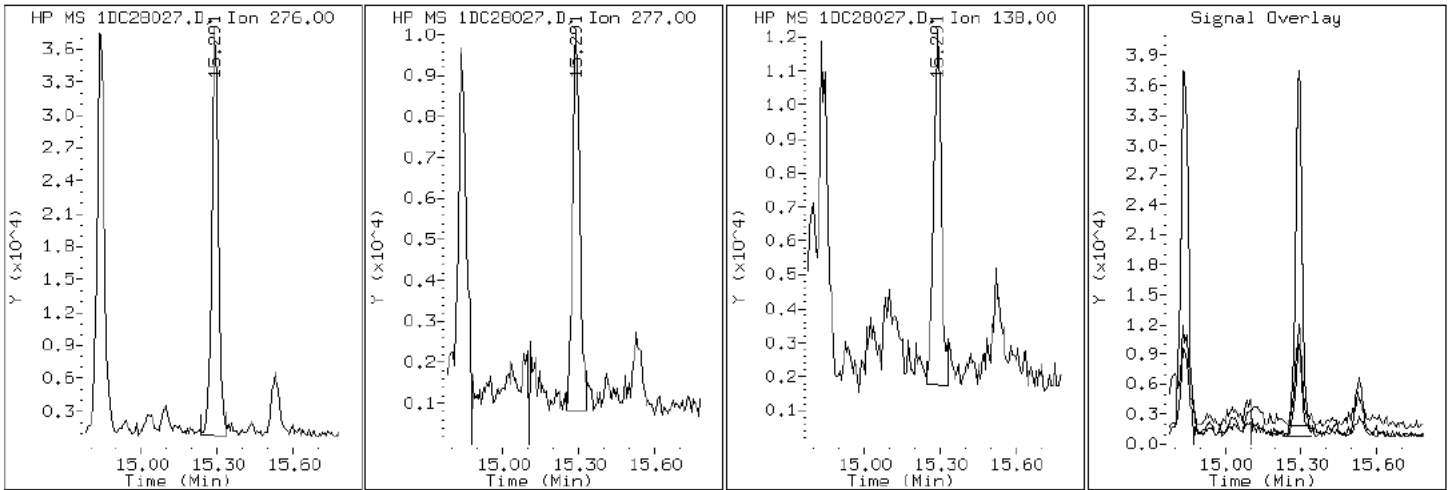
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

25 Benzo(g,h,i)perylene





Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

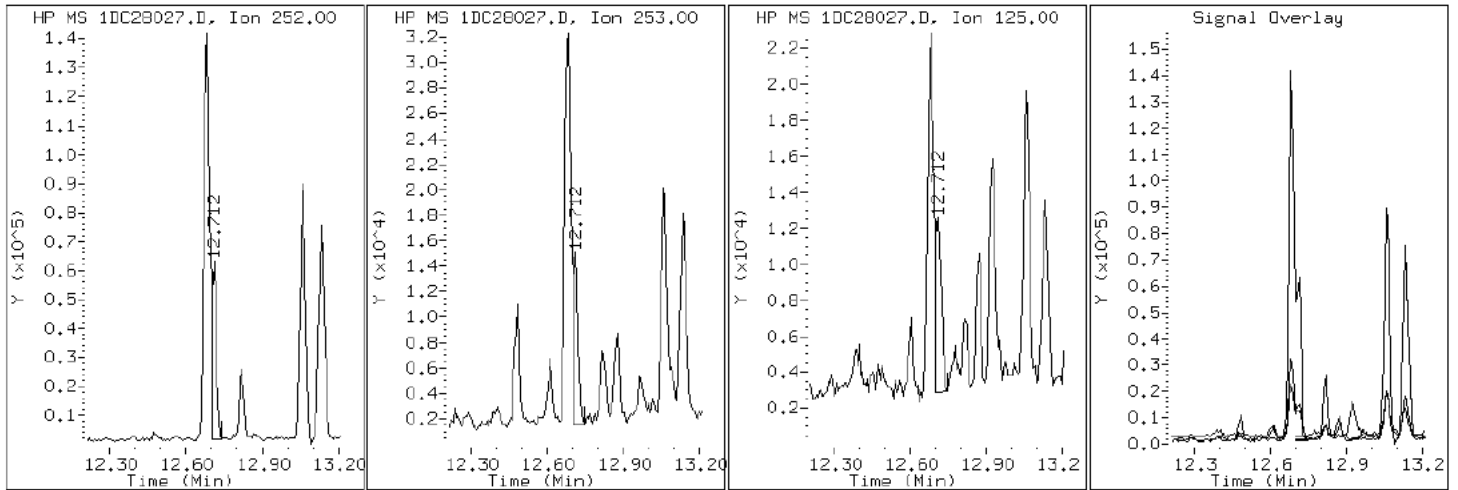
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

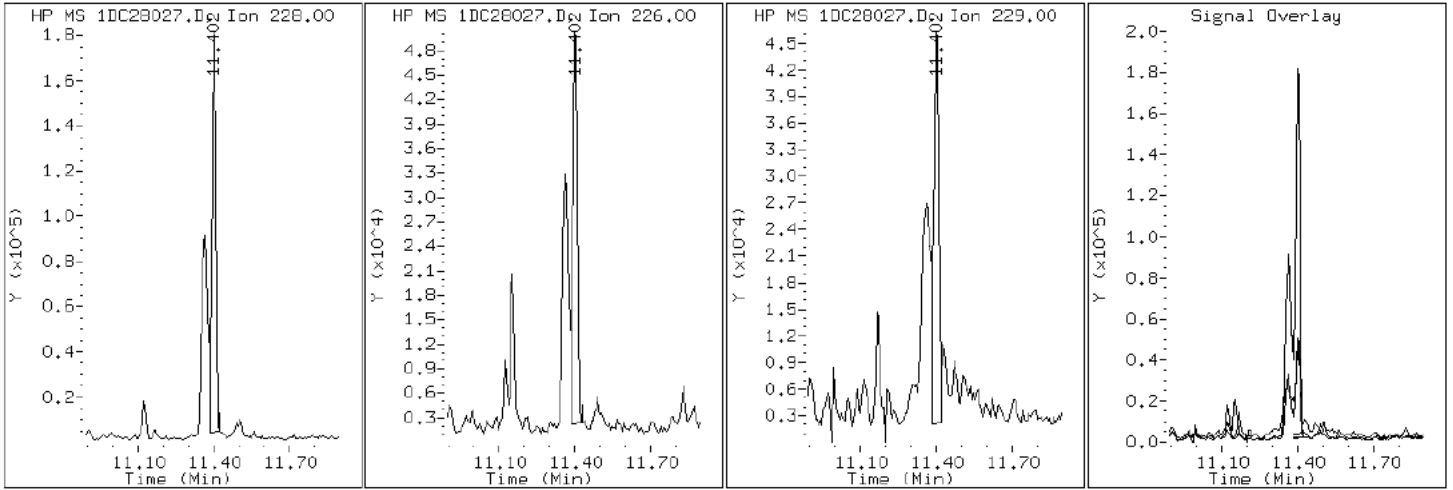
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

18 Chrysene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

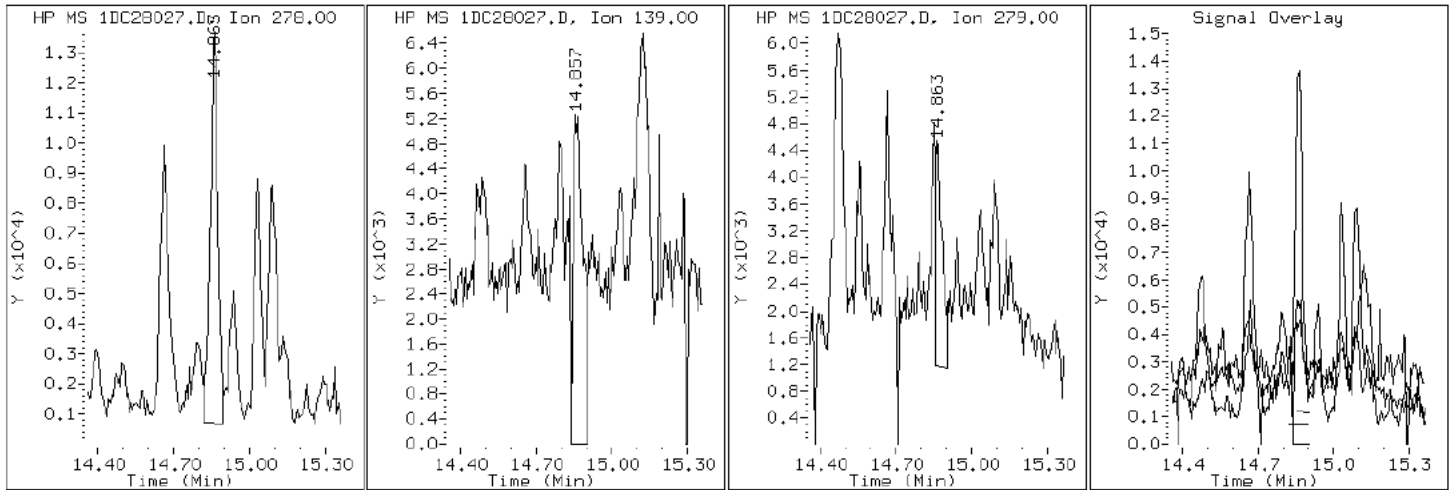
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

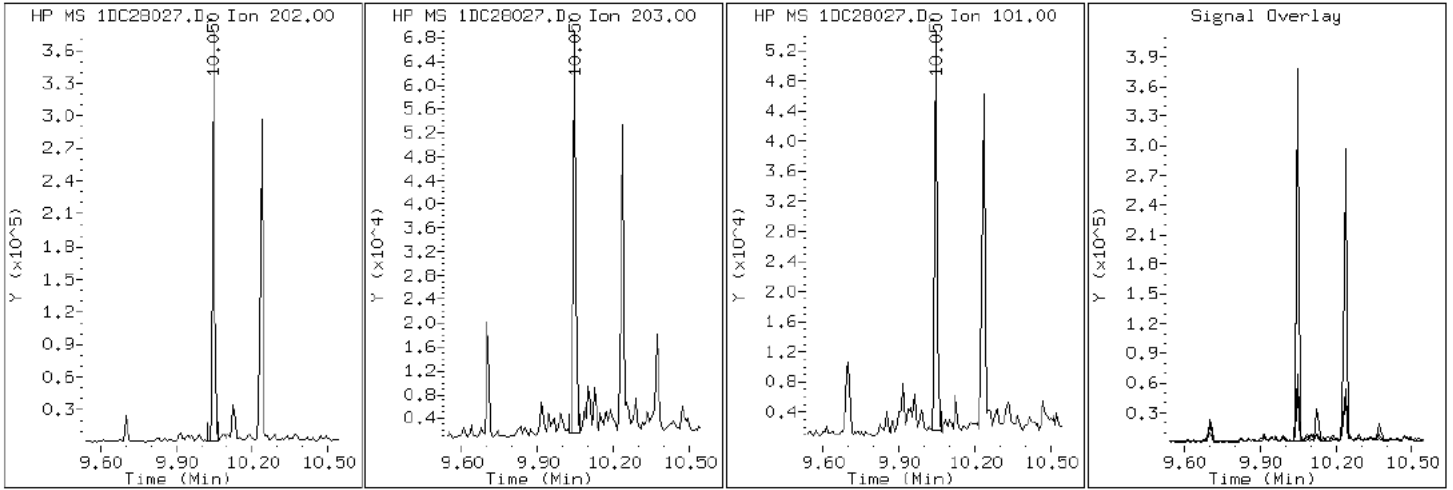
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

14 Fluoranthene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

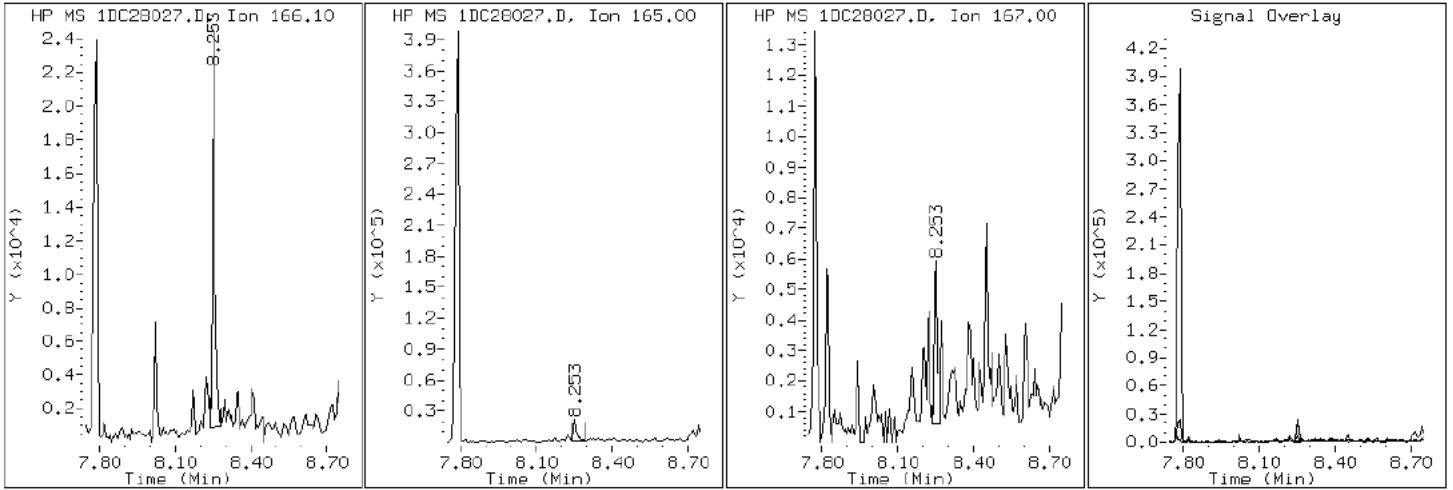
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

8 Fluorene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

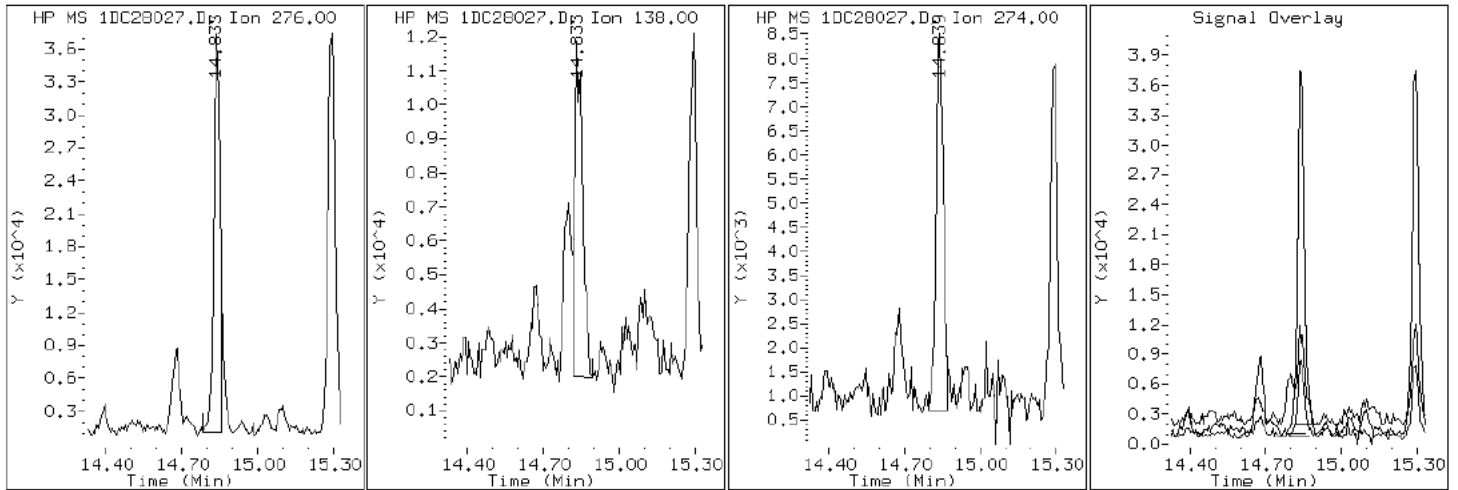
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

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



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

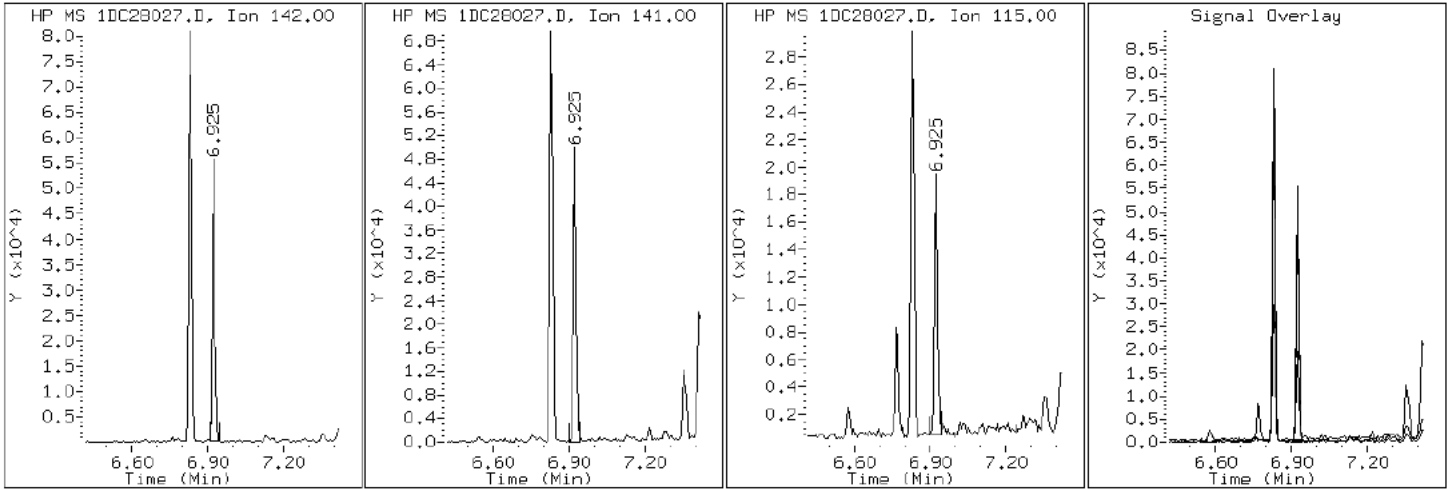
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

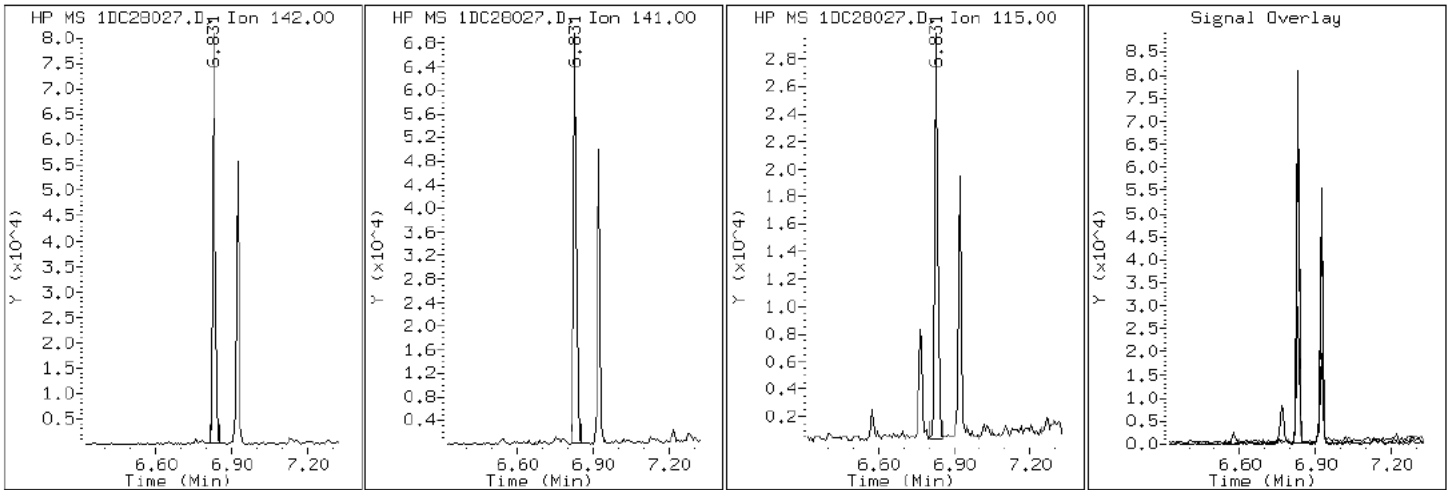
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

3 2-Methylnaphthalene





Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

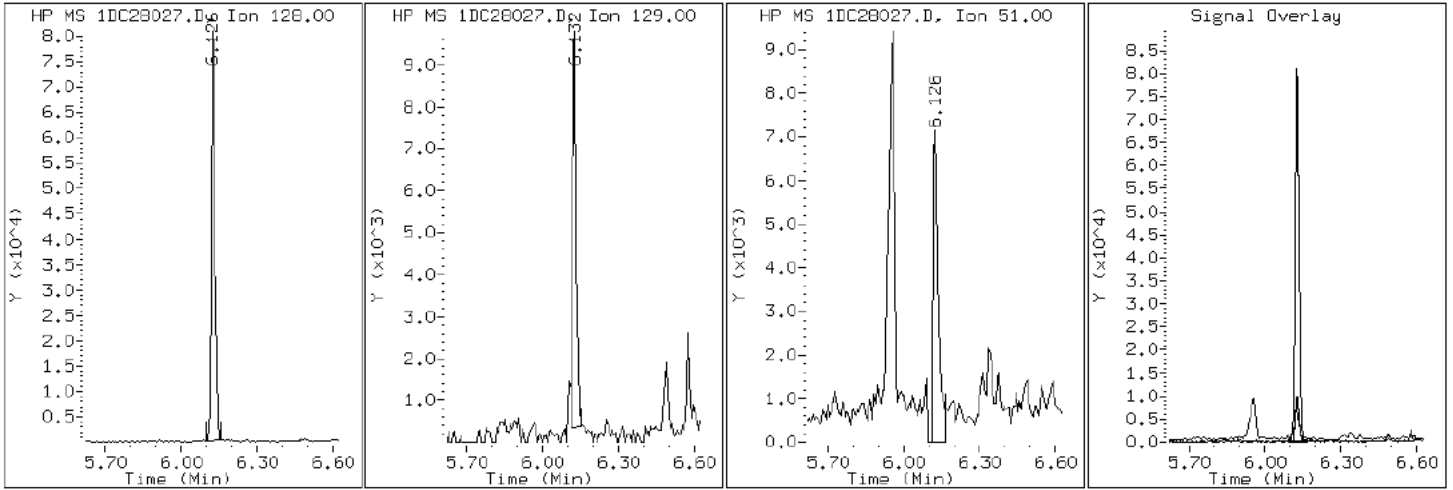
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

2 Naphthalene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

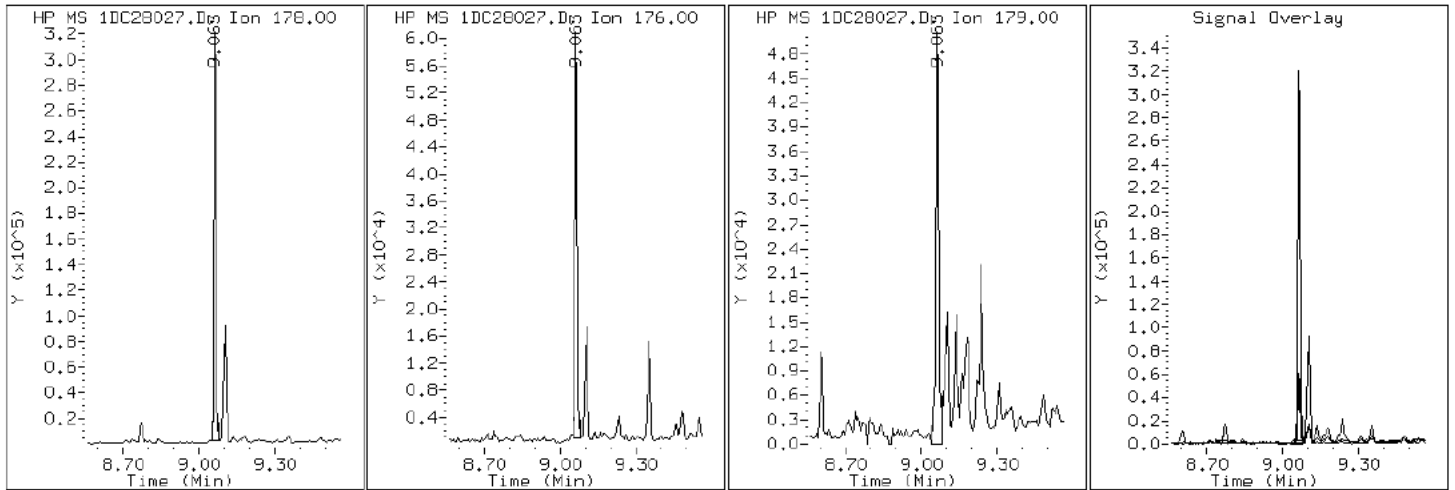
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

10 Phenanthrene



Data File: 1DC28027.D

Date: 28-MAR-2013 21:42

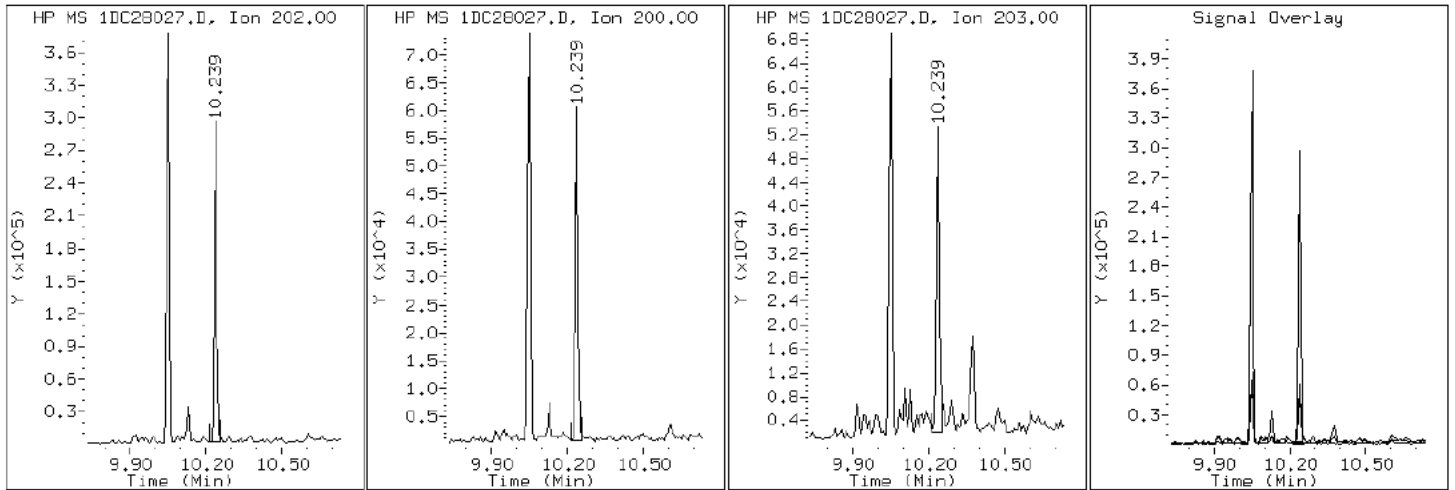
Client ID: FM0312D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-88632-A-16-A

Operator: SCC

15 Pyrene

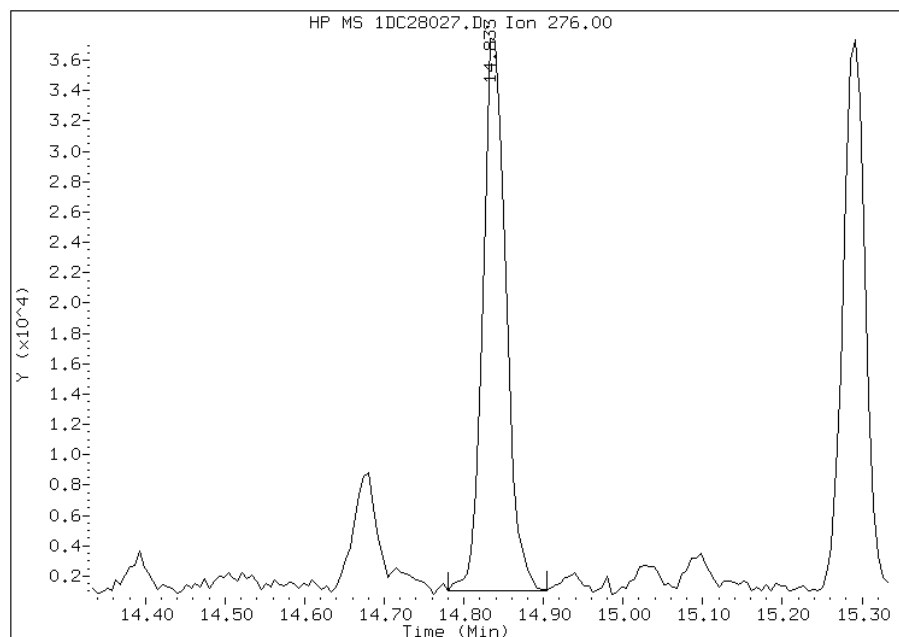


# Manual Integration Report

Data File: 1DC28027.D  
Inj. Date and Time: 28-MAR-2013 21:42  
Instrument ID: BSMSD.i  
Client ID: FM0312D-CS-SP  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

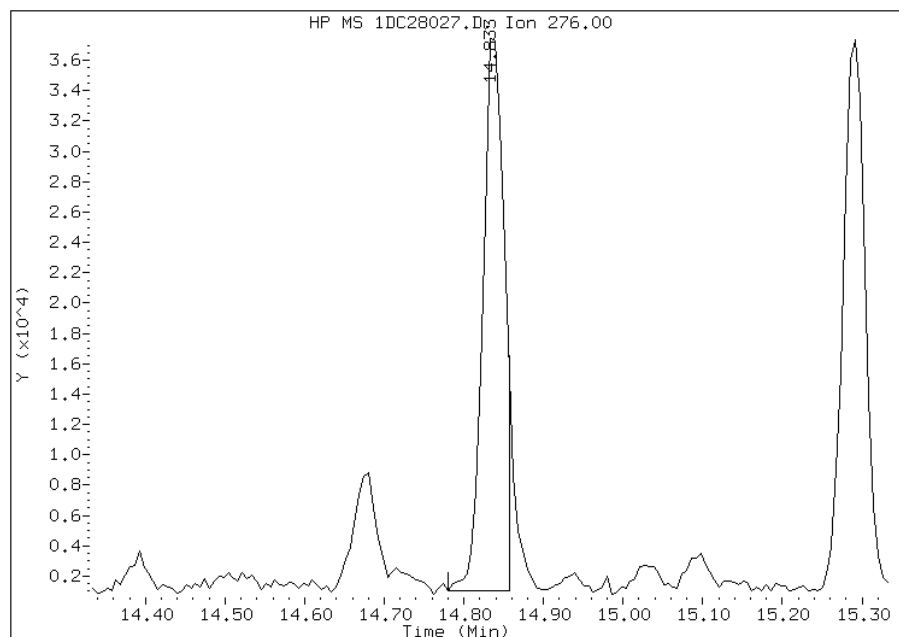
## Processing Integration Results

RT: 14.83  
Response: 73188  
Amount: 1  
Conc: 54



## Manual Integration Results

RT: 14.83  
Response: 67357  
Amount: 1  
Conc: 50



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 14:08  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0368A-CS-SP Lab Sample ID: 680-88632-17  
 Matrix: Solid Lab File ID: 1CC28035.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 08:16  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.87(g) Date Analyzed: 03/28/2013 21:47  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 23.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	25	J	52	6.6
120-12-7	Anthracene	40		11	5.5
56-55-3	Benzo[a]anthracene	170		10	5.1
50-32-8	Benzo[a]pyrene	140		14	6.8
205-99-2	Benzo[b]fluoranthene	260		16	8.0
191-24-2	Benzo[g,h,i]perylene	110		26	5.8
207-08-9	Benzo[k]fluoranthene	110		10	4.7
218-01-9	Chrysene	290		12	5.9
53-70-3	Dibenz(a,h)anthracene	46		26	5.4
206-44-0	Fluoranthene	290		26	5.2
86-73-7	Fluorene	12	J	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	93		26	9.3
90-12-0	1-Methylnaphthalene	140		52	5.8
91-57-6	2-Methylnaphthalene	180		52	9.3
91-20-3	Naphthalene	130		52	5.8
85-01-8	Phenanthrene	310		10	5.1
129-00-0	Pyrene	290		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28035.D  
 Lab Smp Id: 680-88632-A-17-A Client Smp ID: CV0368A-CS-SP  
 Inj Date : 28-MAR-2013 21:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-17-a  
 Misc Info : 680-88632-A-17-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 35  
 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	14.870	Weight Extracted
M	23.025	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.722	3.722	(1.000)	939372	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	739730	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1346455	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	98058	4.82351	421.4068	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1439328	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1410351	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	35759	1.46221	127.7464	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	33691	2.06531	180.4359	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	24106	1.62253	141.7522	
5 Acenaphthylene	152		4.727	4.722	(0.983)	8383	0.28109	24.5571	
9 Fluorene	166		5.151	5.151	(1.071)	3107	0.13253	11.5786(Q)	
11 Phenanthrene	178		5.774	5.774	(1.002)	138293	3.55203	310.3235	
12 Anthracene	178		5.810	5.810	(1.008)	17438	0.45797	40.0106	
13 Carbazole	167		5.916	5.921	(1.027)	13226	0.39075	34.1381(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.610	6.616	(1.147)	140602	3.29766	288.1005
16 Pyrene	202	6.780	6.780	(0.880)	126315	3.26565	285.3042
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	82313	1.98145	173.1097
19 Chrysene	228	7.721	7.721	(1.002)	137022	3.29594	287.9502
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	109369	2.96733	259.2413(M)
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.962)	46115	1.21964	106.5541(MH)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	58497	1.63395	142.7505
24 Indeno(1,2,3-cd)pyrene	276	10.051	10.045	(1.131)	35812	1.06335	92.8996(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	17447	0.52962	46.2705
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	45110	1.28042	111.8643

QC Flag Legend

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

Data File: 1CC28035.D

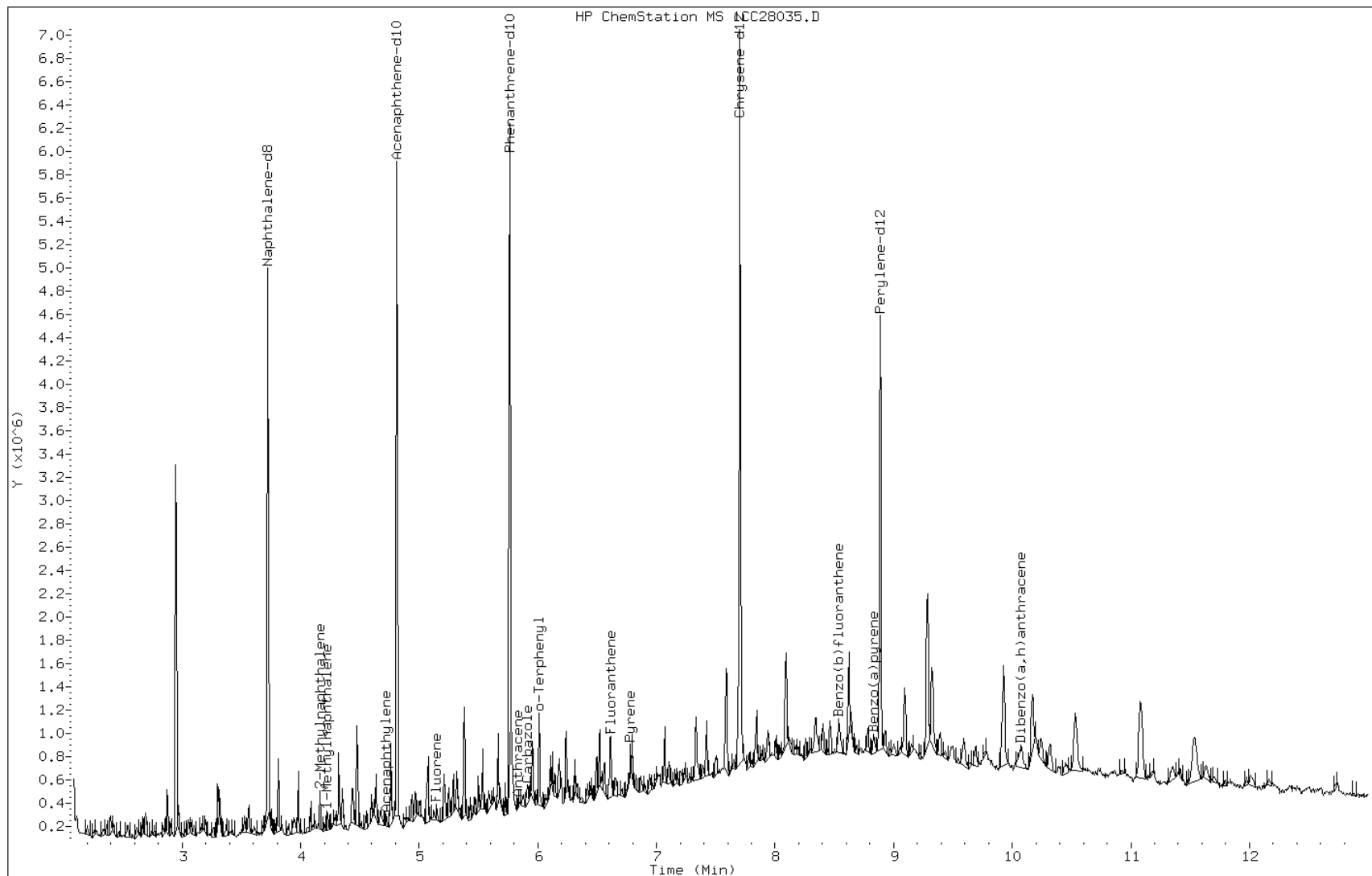
Date: 28-MAR-2013 21:47

Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC





Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

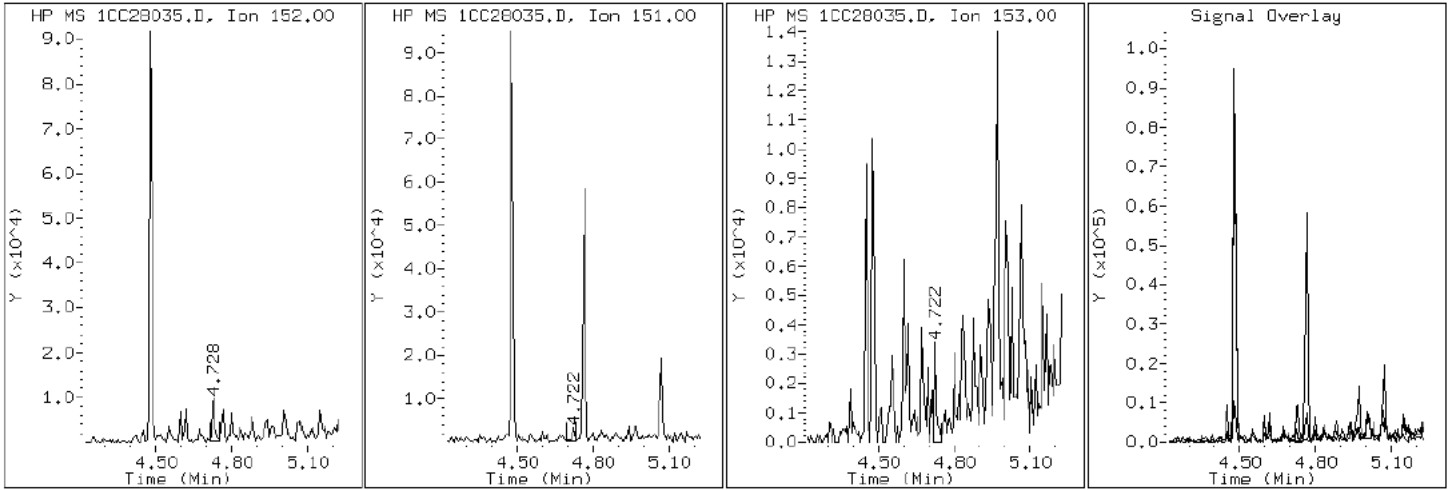
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

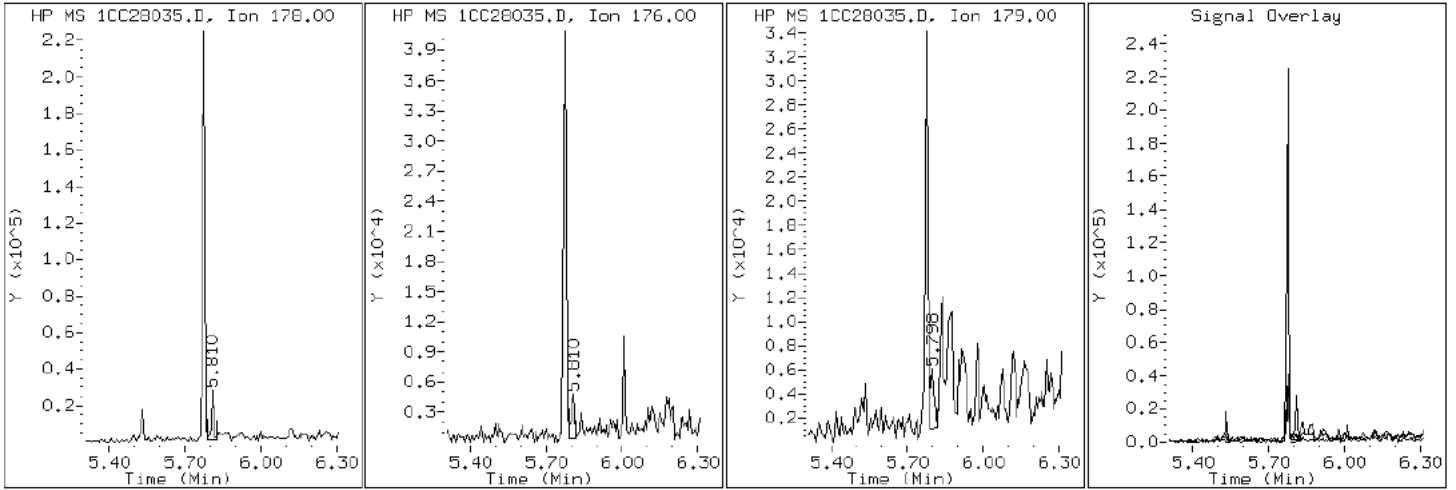
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

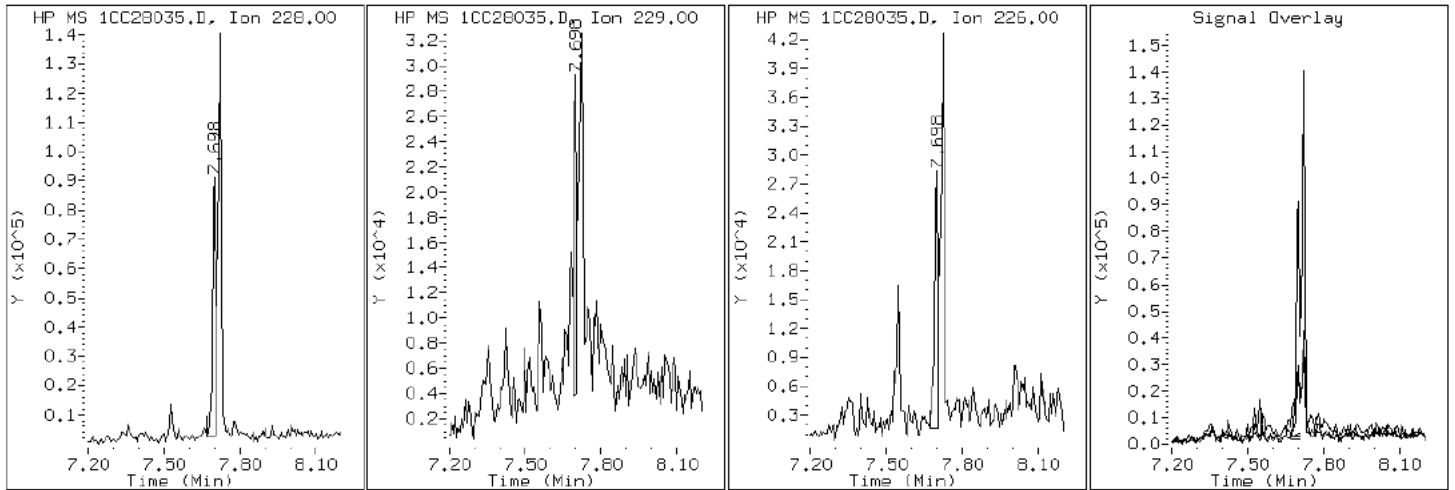
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

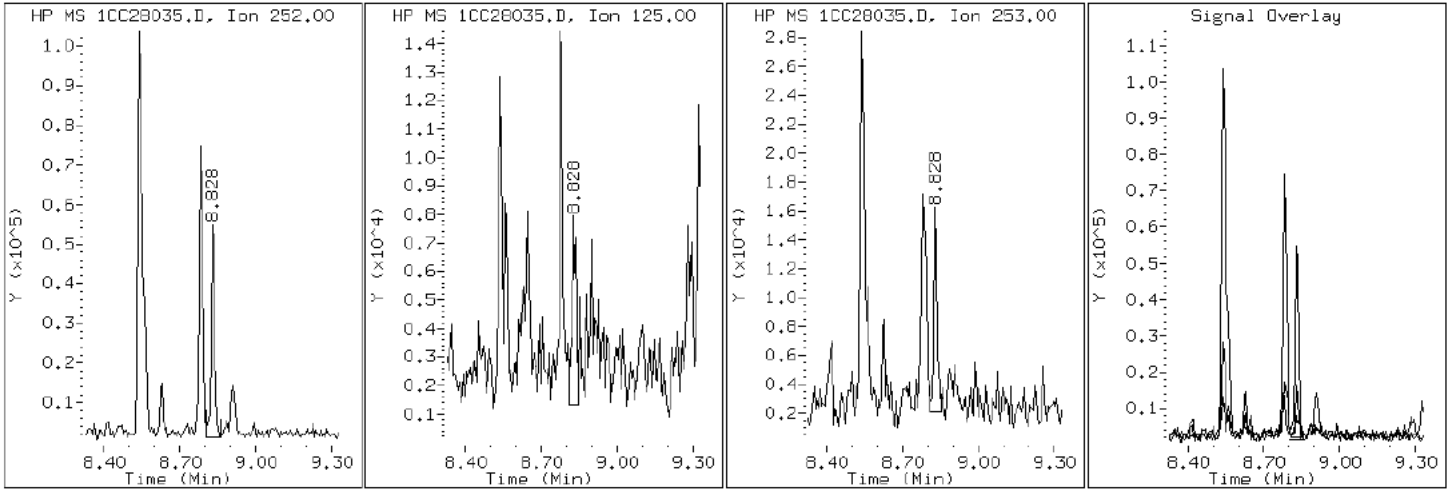
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

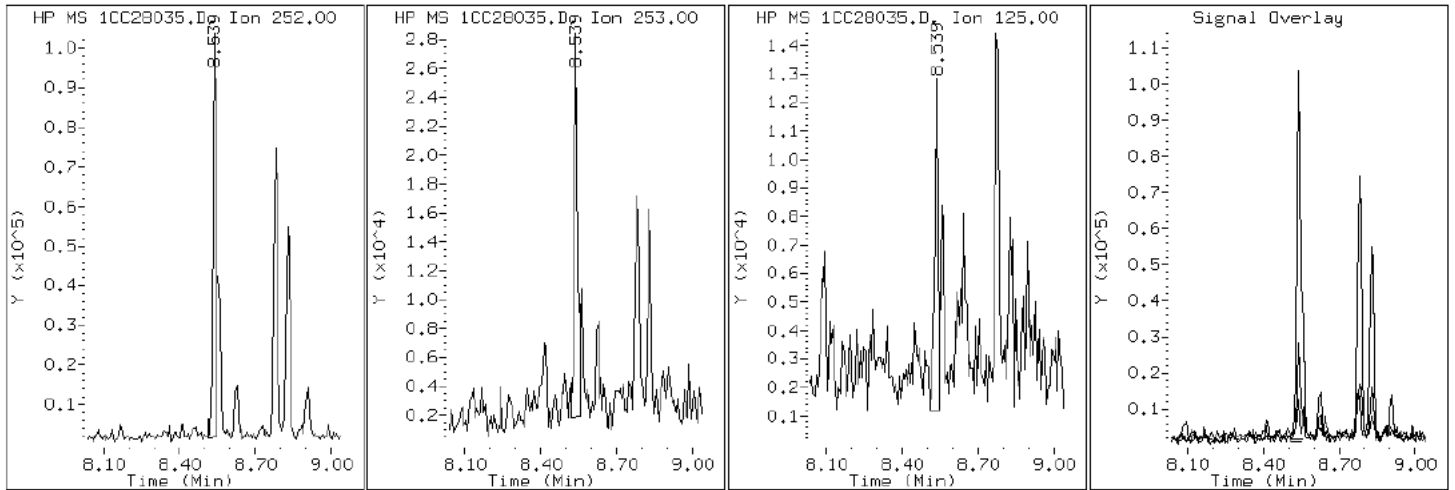
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

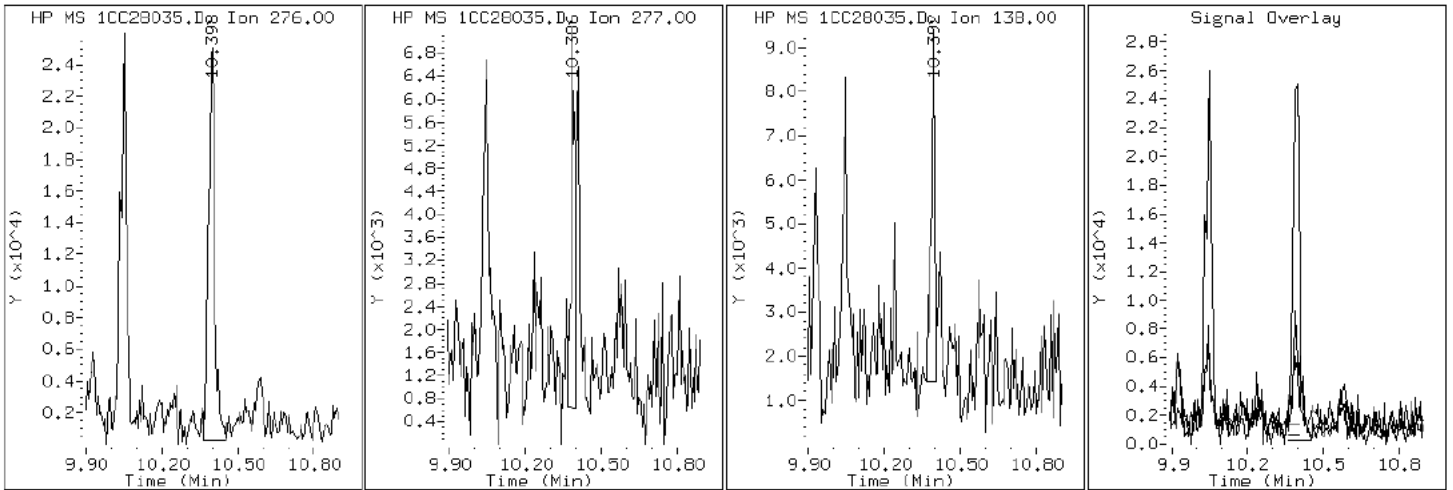
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

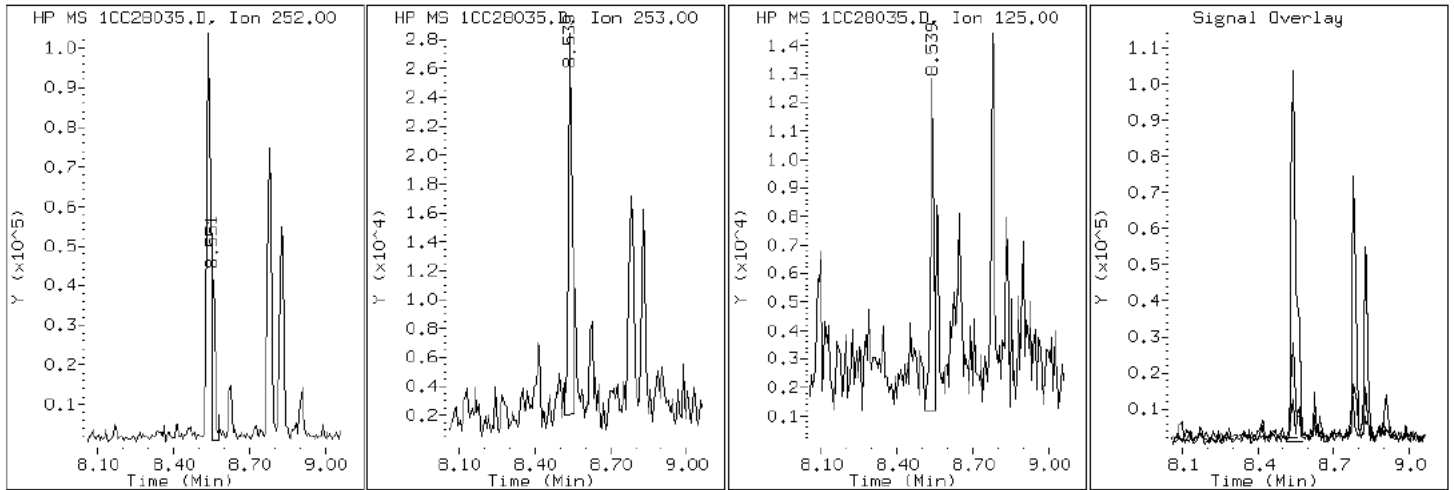
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

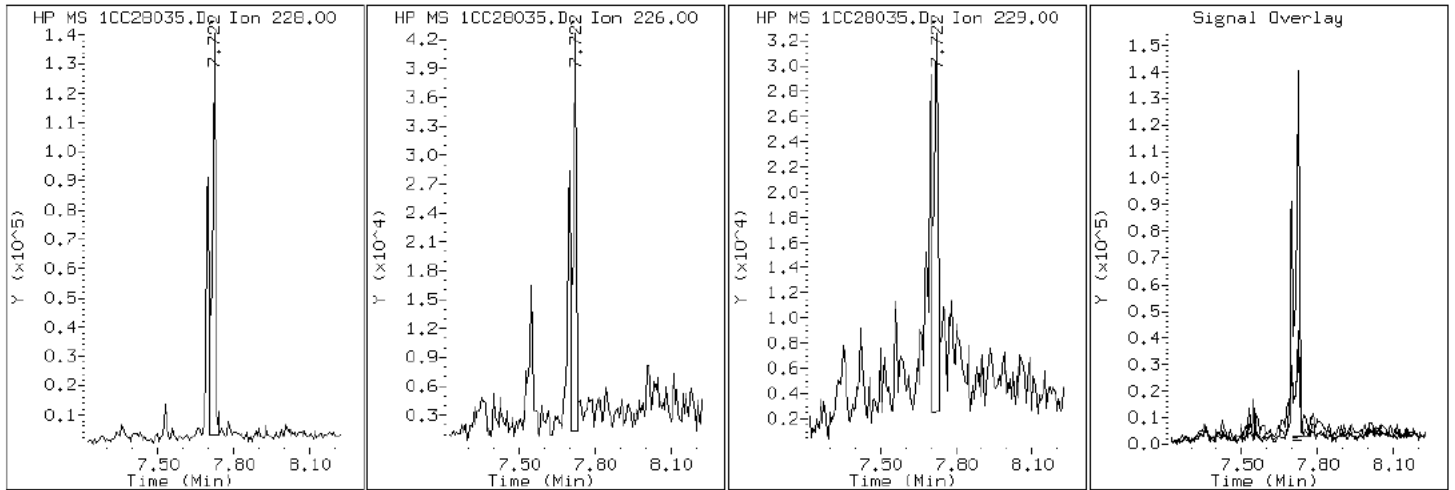
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

19 Chrysene





Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

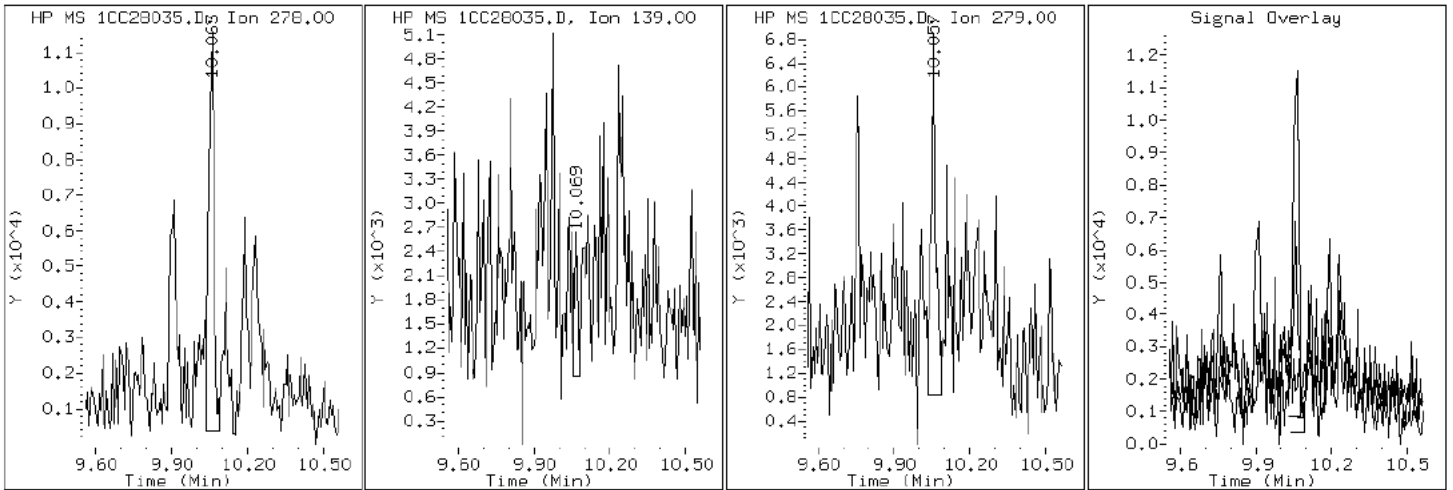
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

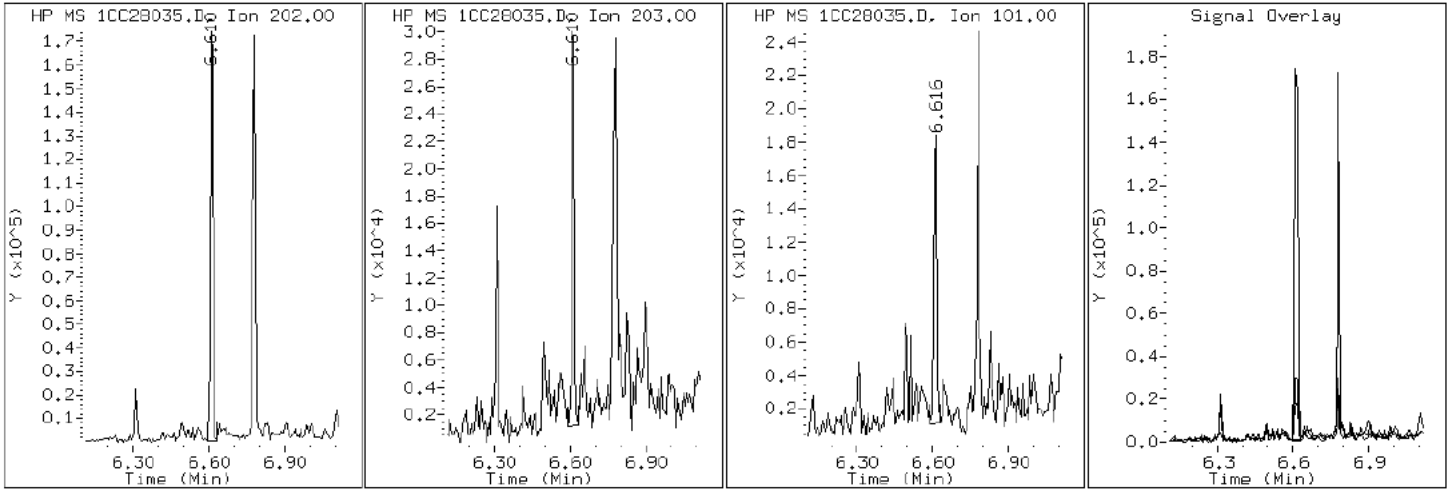
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

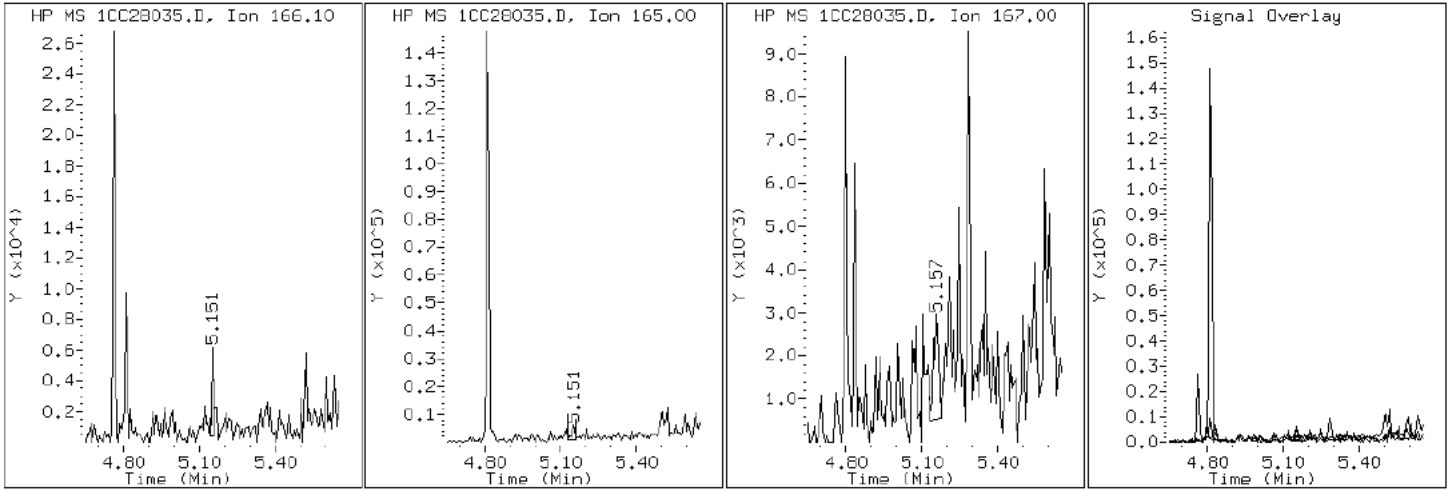
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

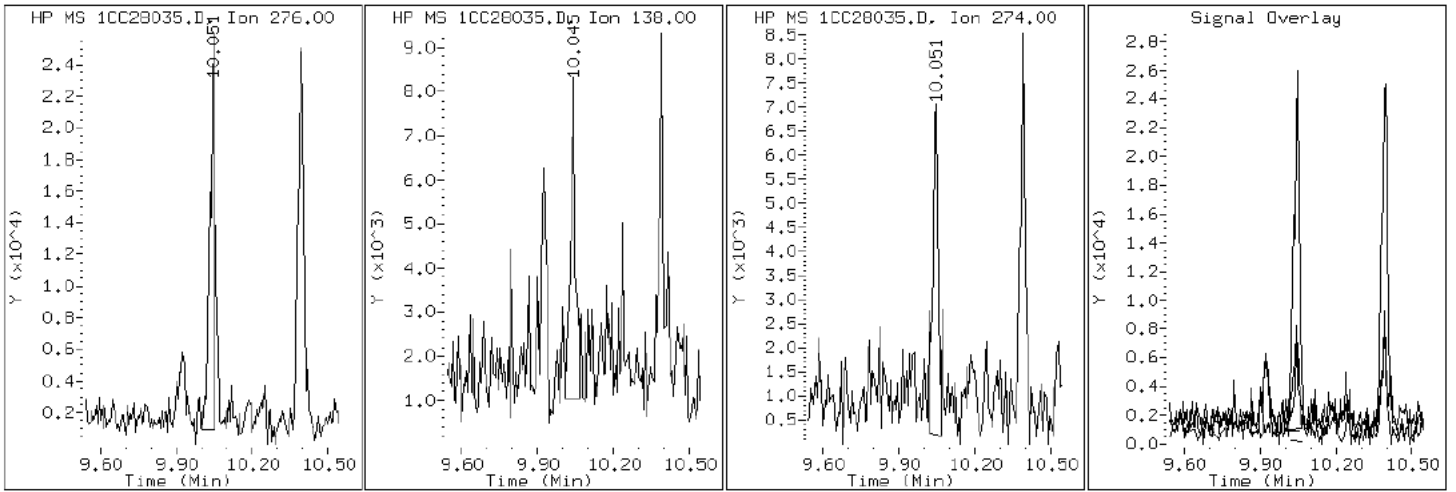
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

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



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

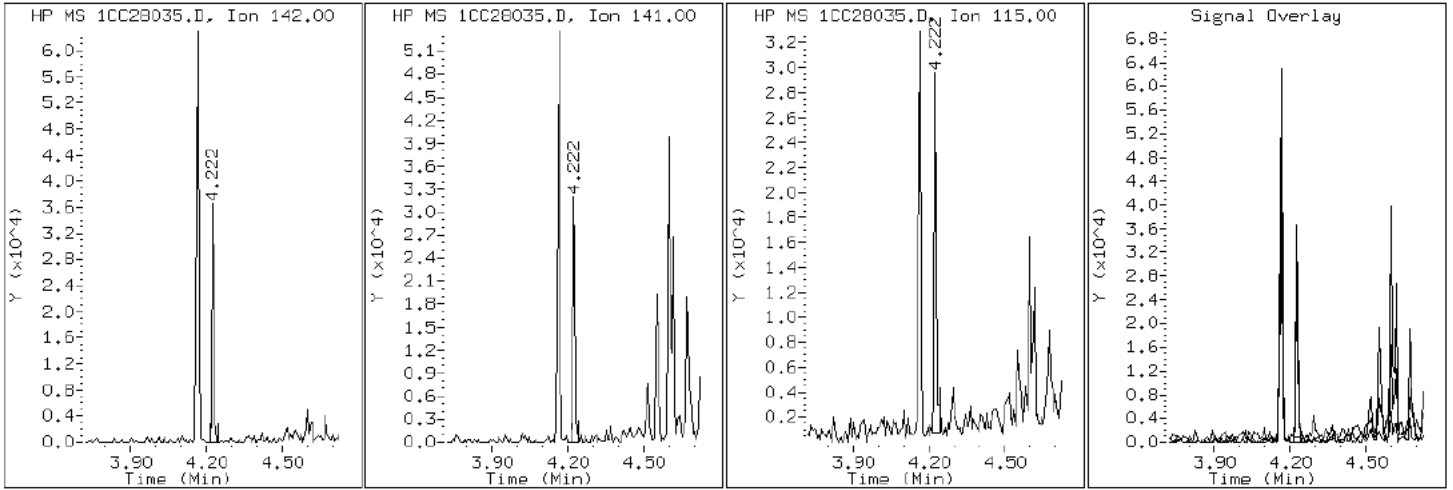
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

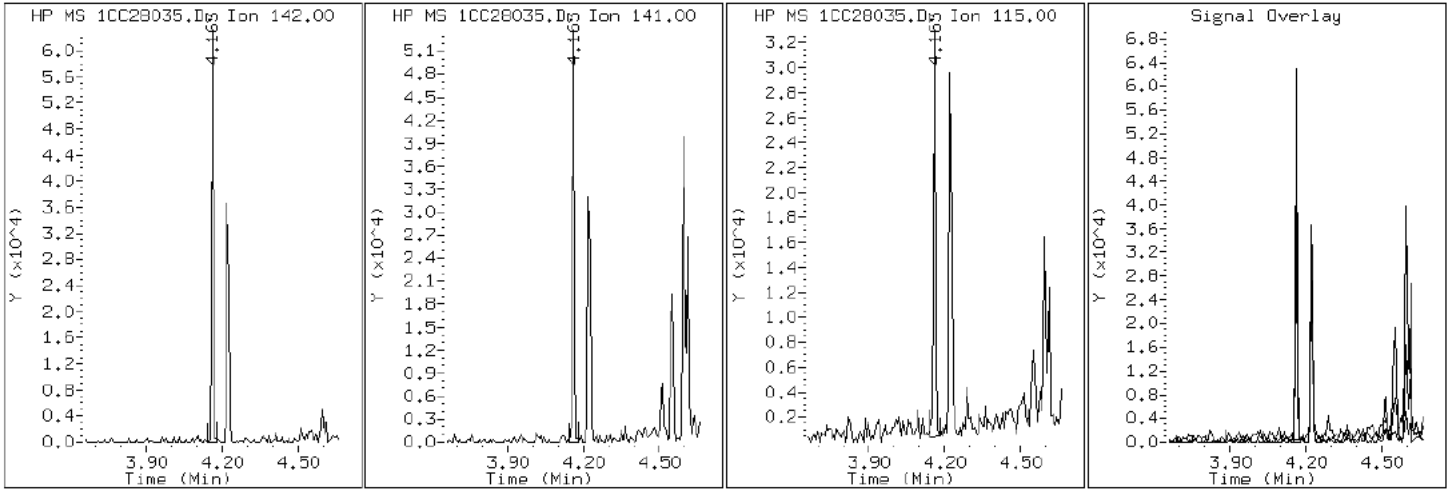
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

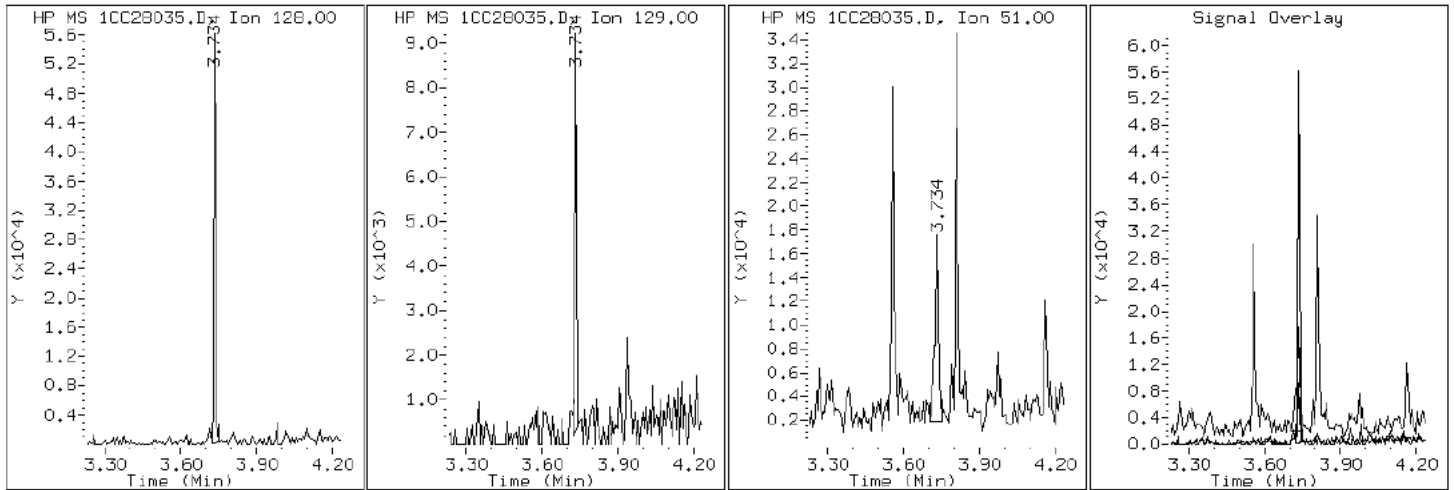
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

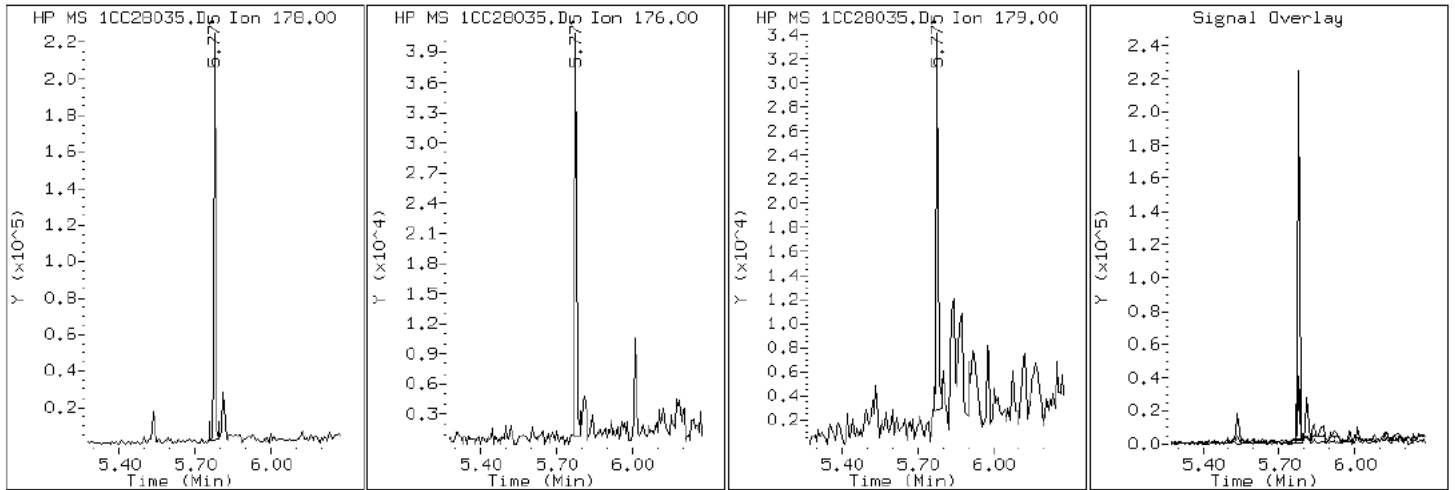
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

11 Phenanthrene





Data File: 1CC28035.D

Date: 28-MAR-2013 21:47

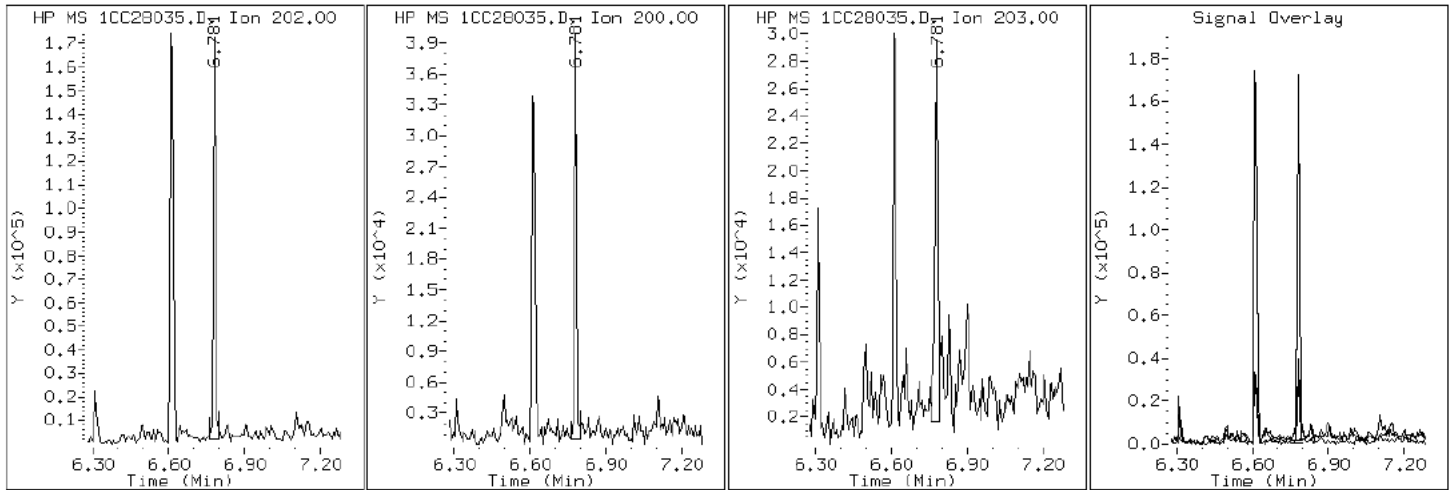
Client ID: CV0368A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-17-a

Operator: SCC

16 Pyrene

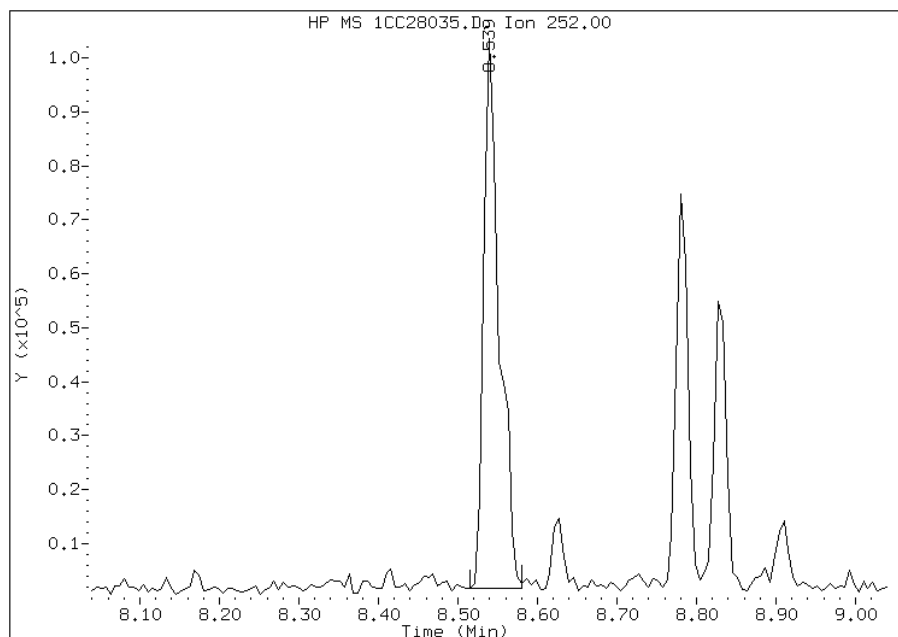


# Manual Integration Report

Data File: 1CC28035.D  
Inj. Date and Time: 28-MAR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV0368A-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/02/2013

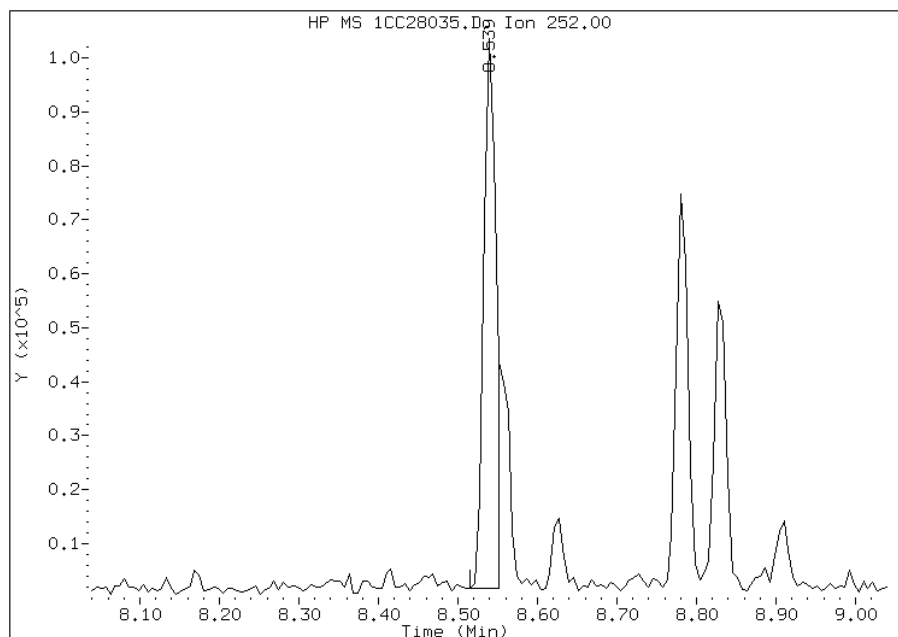
## Processing Integration Results

RT: 8.54  
Response: 139173  
Amount: 4  
Conc: 330



## Manual Integration Results

RT: 8.54  
Response: 109369  
Amount: 3  
Conc: 259



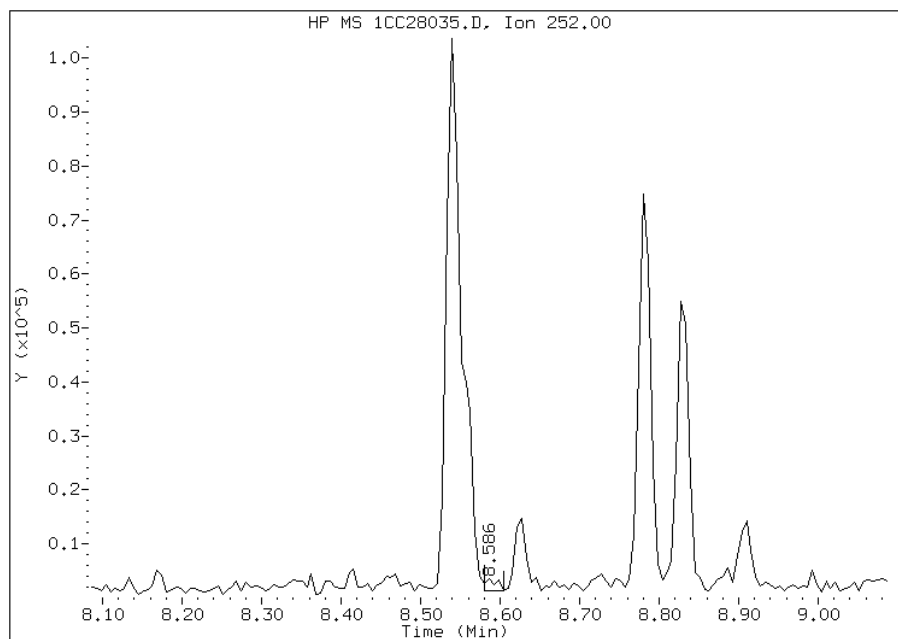
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:15  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC28035.D  
Inj. Date and Time: 28-MAR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV0368A-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/02/2013

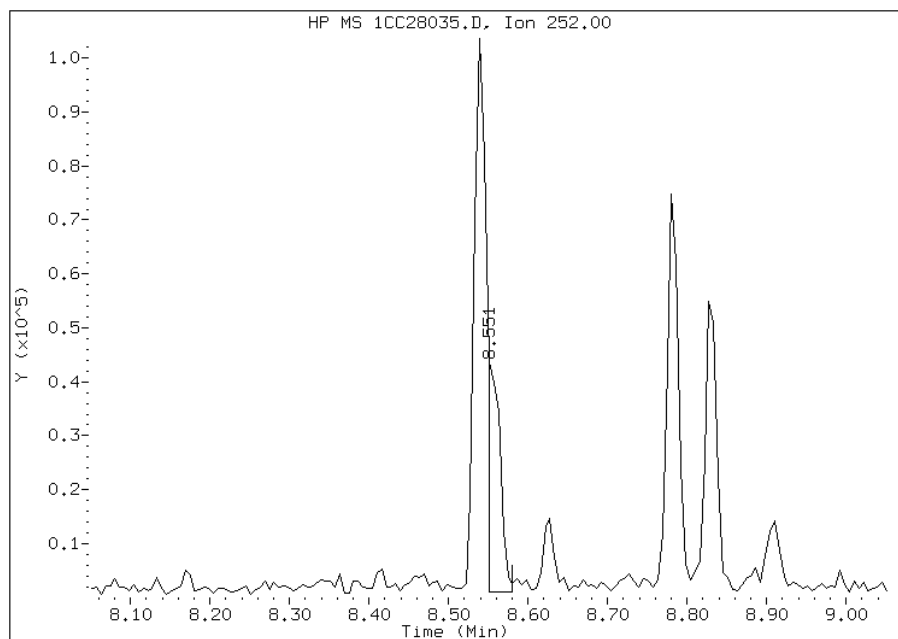
## Processing Integration Results

RT: 8.59  
Response: 2441  
Amount: 0  
Conc: 6



## Manual Integration Results

RT: 8.55  
Response: 46115  
Amount: 1  
Conc: 107



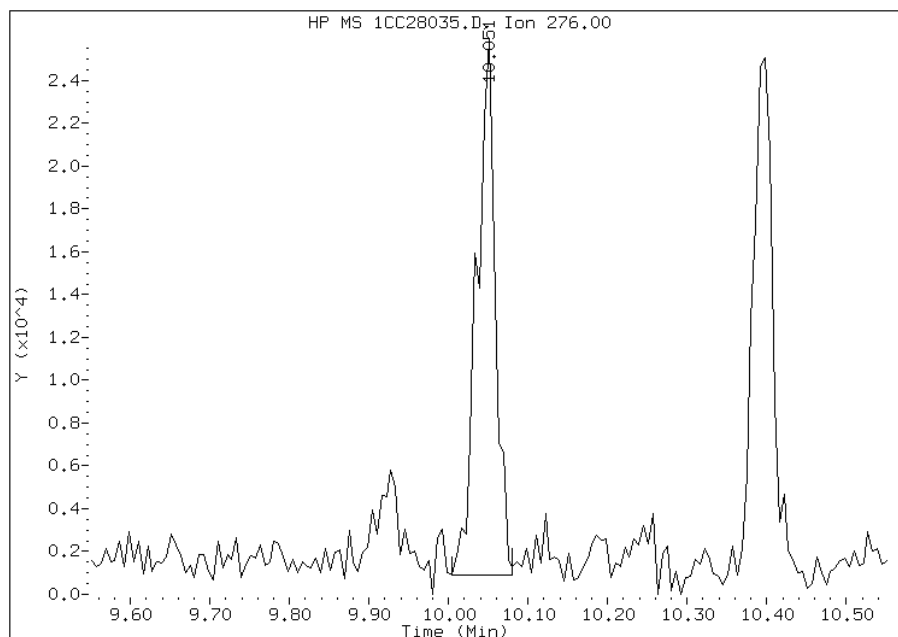
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:15  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28035.D  
Inj. Date and Time: 28-MAR-2013 21:47  
Instrument ID: BSMC5973.i  
Client ID: CV0368A-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

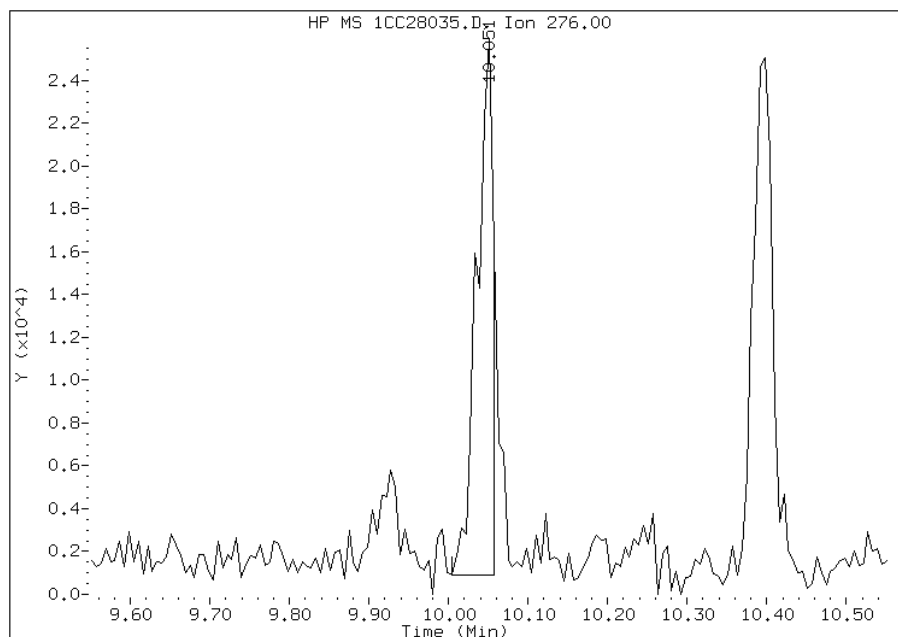
## Processing Integration Results

RT: 10.05  
Response: 40431  
Amount: 1  
Conc: 105



## Manual Integration Results

RT: 10.05  
Response: 35812  
Amount: 1  
Conc: 93



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:16  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0368B-CS-SP Lab Sample ID: 680-88632-18  
 Matrix: Solid Lab File ID: 1CC28036.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 08:32  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.22(g) Date Analyzed: 03/28/2013 22:06  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 9.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	87
208-96-8	Acenaphthylene	29	J	170	22
120-12-7	Anthracene	37		37	18
56-55-3	Benzo[a]anthracene	130		35	17
50-32-8	Benzo[a]pyrene	95		45	23
205-99-2	Benzo[b]fluoranthene	210		53	27
191-24-2	Benzo[g,h,i]perylene	120		87	19
207-08-9	Benzo[k]fluoranthene	80		35	16
218-01-9	Chrysene	210		39	20
53-70-3	Dibenz(a,h)anthracene	26	J	87	18
206-44-0	Fluoranthene	150		87	17
86-73-7	Fluorene	19	J	87	18
193-39-5	Indeno[1,2,3-cd]pyrene	72	J	87	31
90-12-0	1-Methylnaphthalene	120	J	170	19
91-57-6	2-Methylnaphthalene	110	J	170	31
91-20-3	Naphthalene	98	J	170	19
85-01-8	Phenanthrene	180		35	17
129-00-0	Pyrene	150		87	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28036.D  
 Lab Smp Id: 680-88632-A-18-A Client Smp ID: CV0368B-CS-SP  
 Inj Date : 28-MAR-2013 22:06  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-18-a  
 Misc Info : 680-88632-A-18-A  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 36  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	9.843	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.722	3.722	(1.000)	942036	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	740322	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1327700	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	21040	1.04959	305.9607	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1470381	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1320652	40.0000		
2 Naphthalene	128		3.739	3.733	(1.005)	8261	0.33684	98.1919(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	5955	0.36402	106.1134	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	6054	0.40633	118.4477	
5 Acenaphthylene	152		4.727	4.722	(0.983)	3020	0.10118	29.4949(Q)	
9 Fluorene	166		5.157	5.151	(1.072)	1538	0.06555	19.1088(Q)	
11 Phenanthrene	178		5.774	5.774	(1.002)	23180	0.60378	176.0067	
12 Anthracene	178		5.810	5.810	(1.008)	4813	0.12819	37.3676	
13 Carbazole	167		5.916	5.921	(1.027)	4746	0.14220	41.4514(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.610	6.616	(1.147)	21956	0.52223	152.2323
16 Pyrene	202	6.780	6.780	(0.880)	20526	0.51946	151.4247
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	18663	0.43977	128.1958
19 Chrysene	228	7.721	7.721	(1.002)	30767	0.72444	211.1794
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	25211	0.73047	212.9356(M)
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	9672	0.27318	79.6329(QMH)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	10969	0.32720	95.3804
24 Indeno(1,2,3-cd)pyrene	276	10.051	10.045	(1.131)	7834	0.24841	72.4131(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	2757	0.08938	26.0536
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	13348	0.40461	117.9459(M)

QC Flag Legend

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

Data File: 1CC28036.D

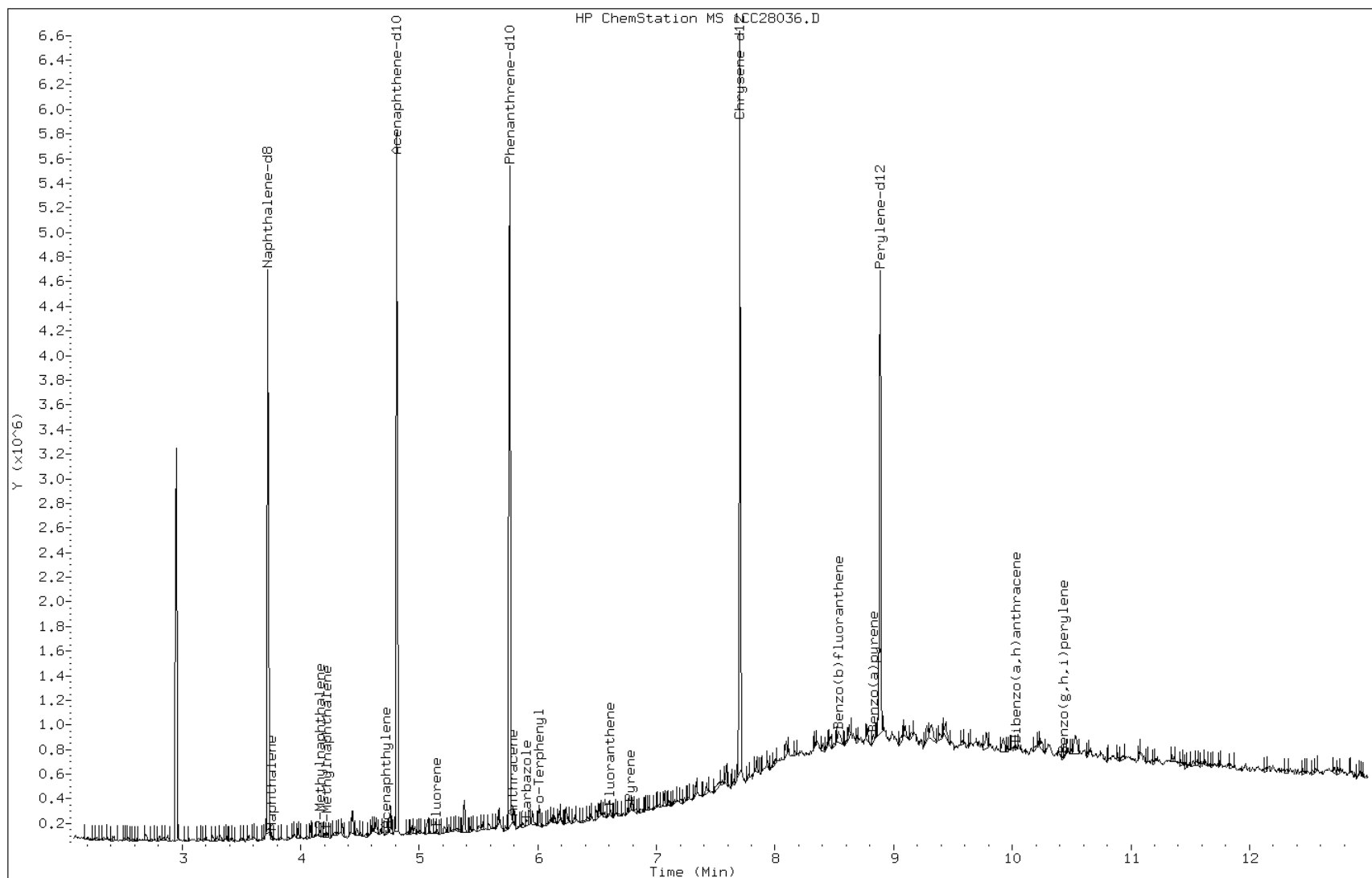
Date: 28-MAR-2013 22:06

Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC





Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

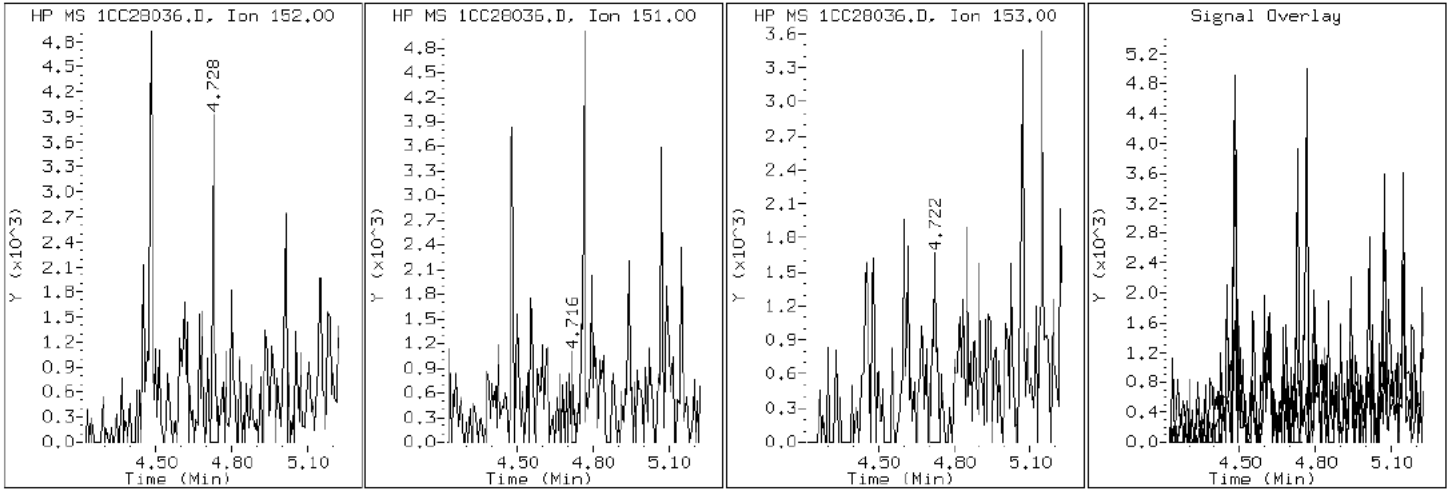
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

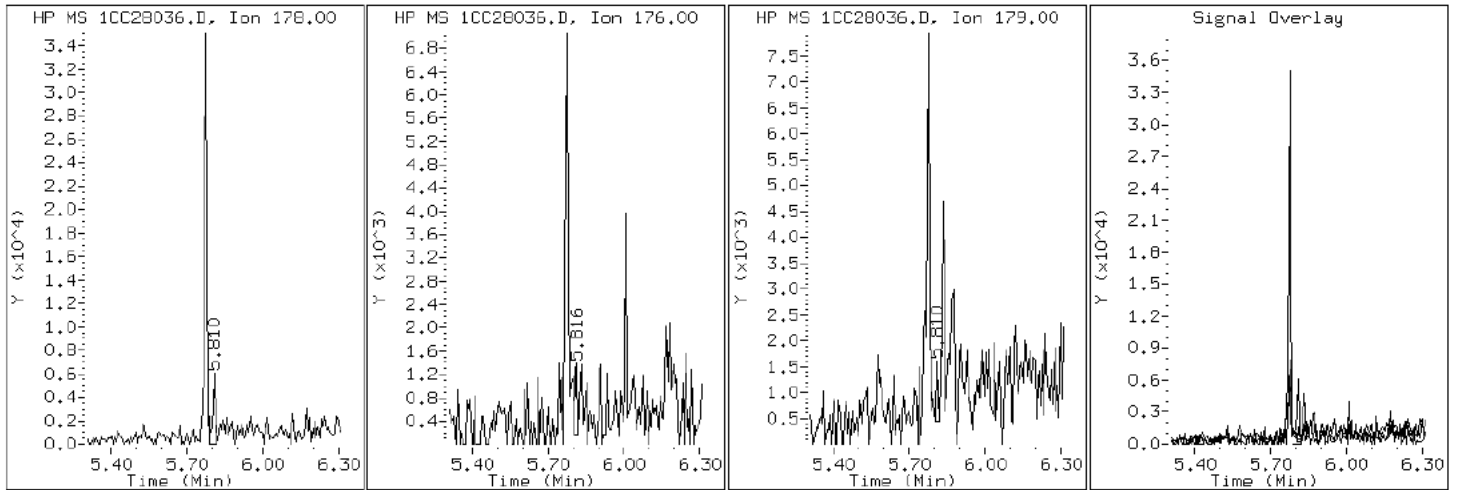
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

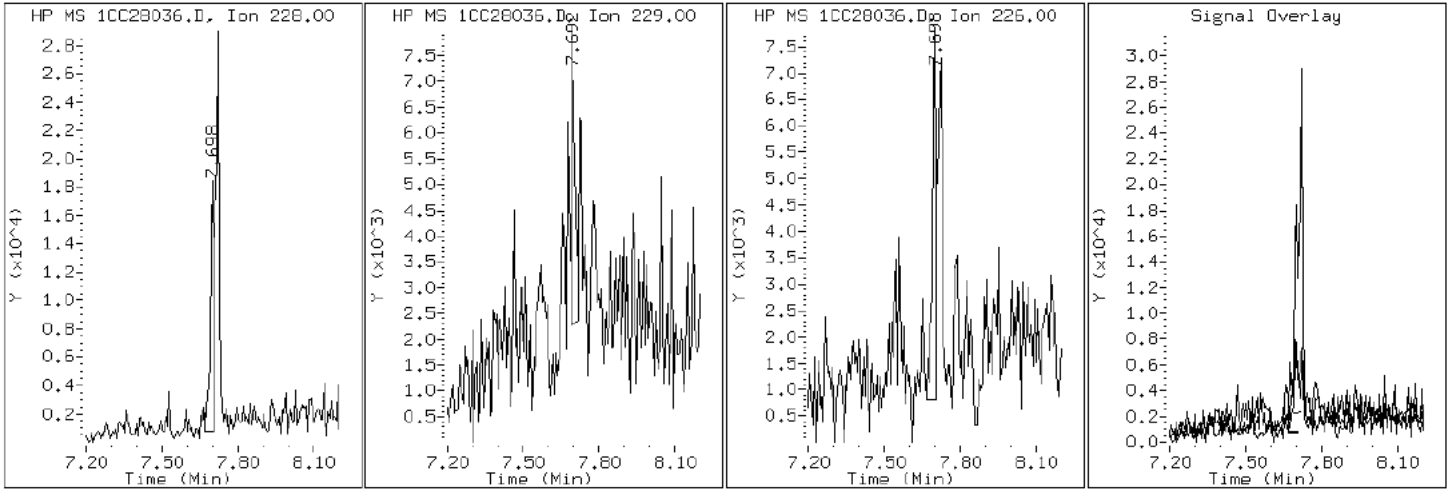
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

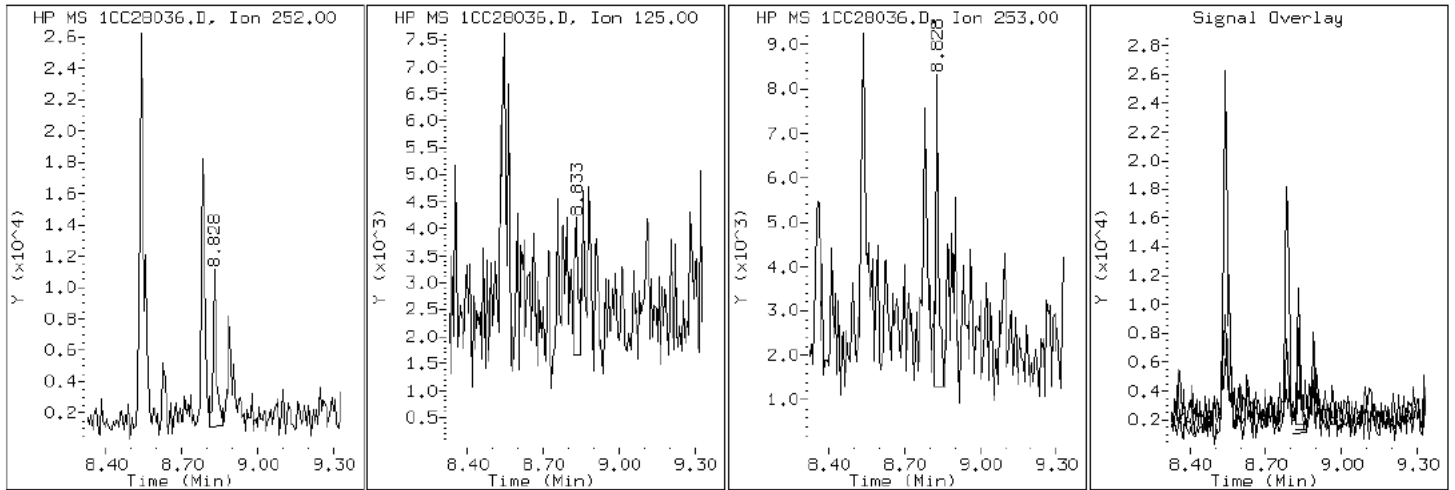
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

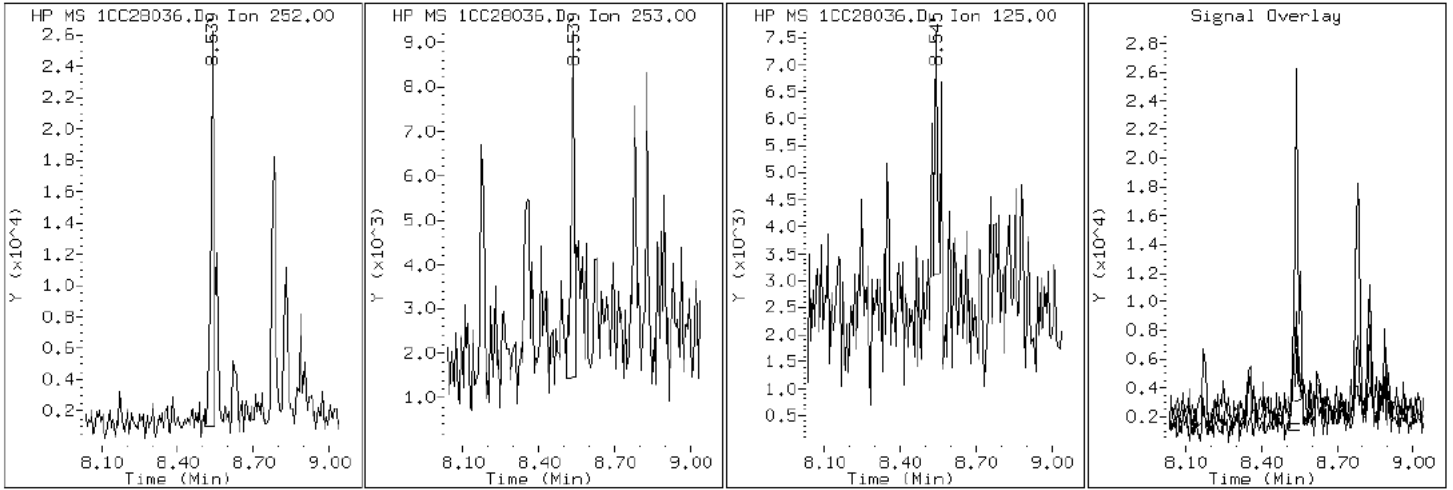
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

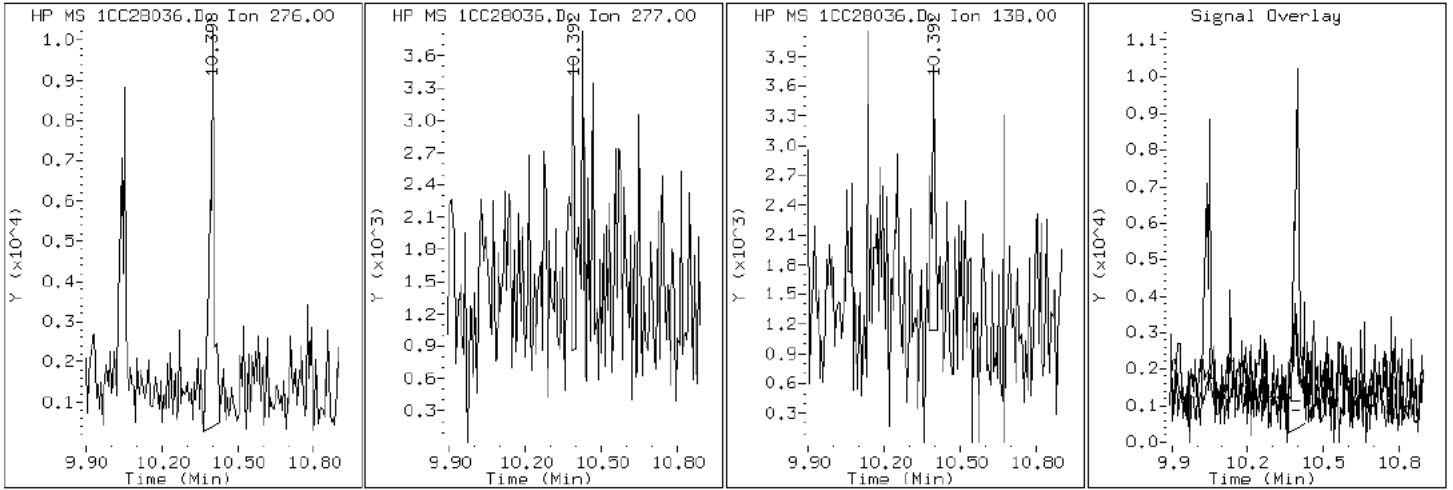
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

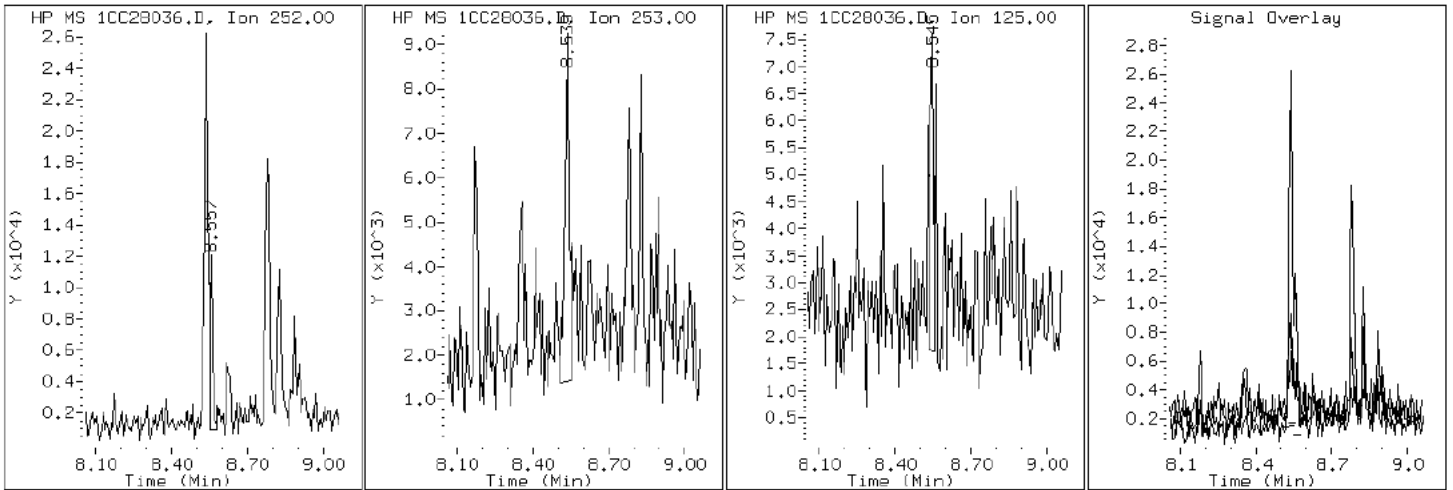
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

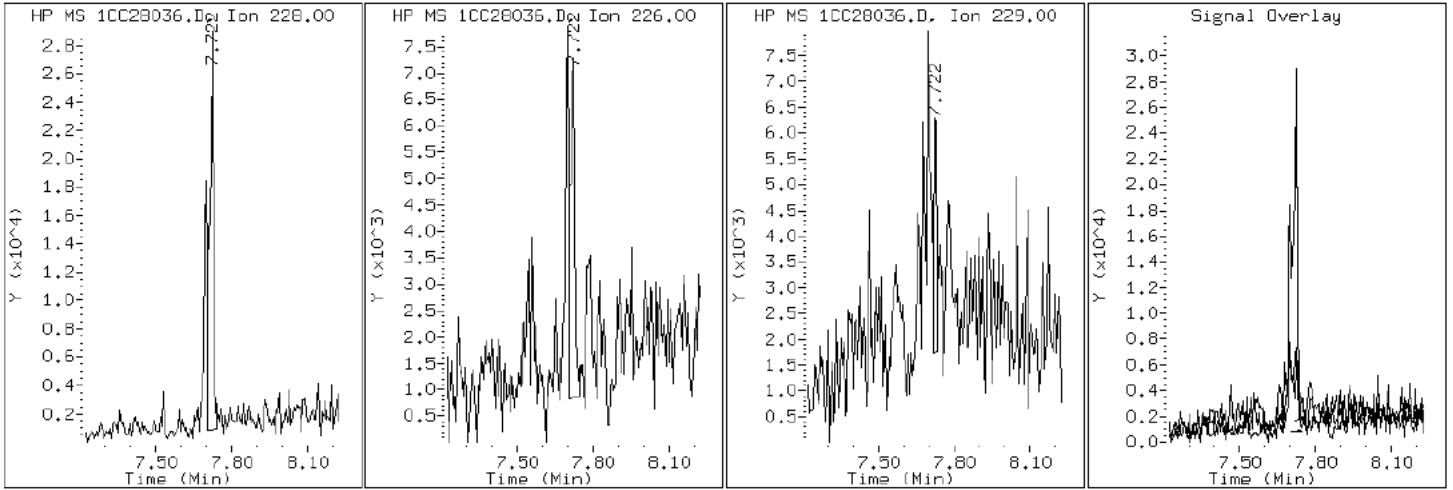
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

19 Chrysene





Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

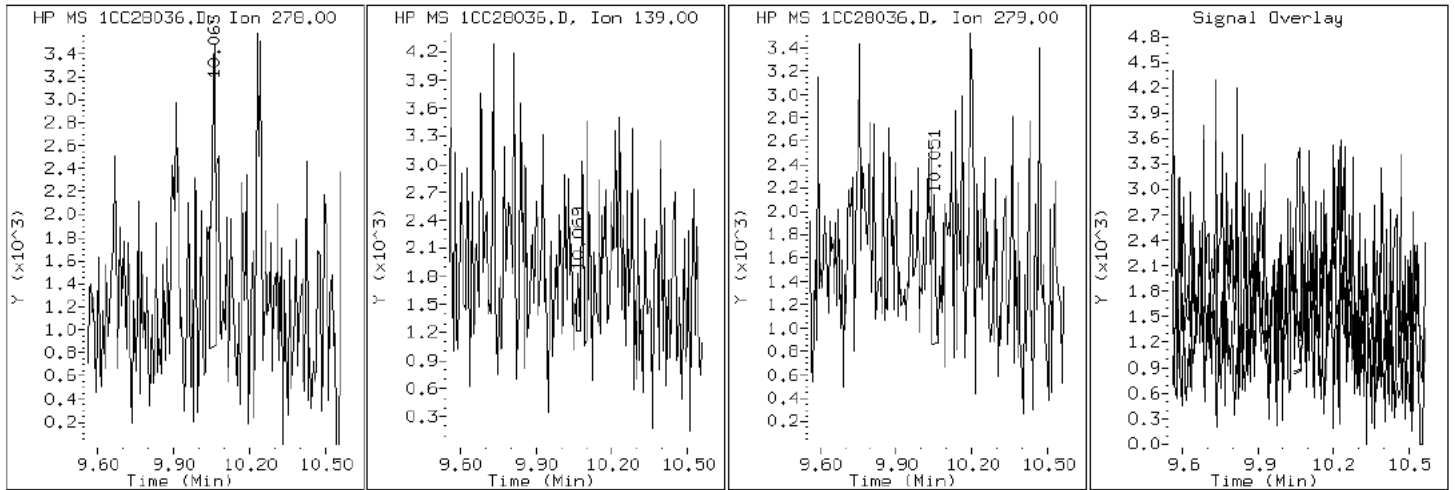
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

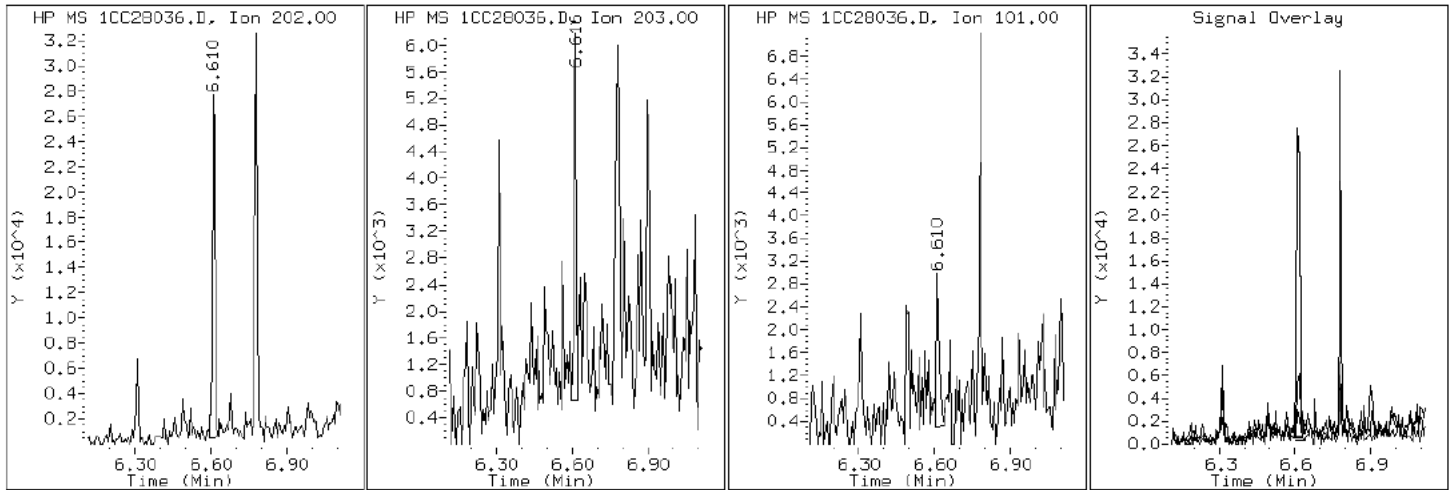
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

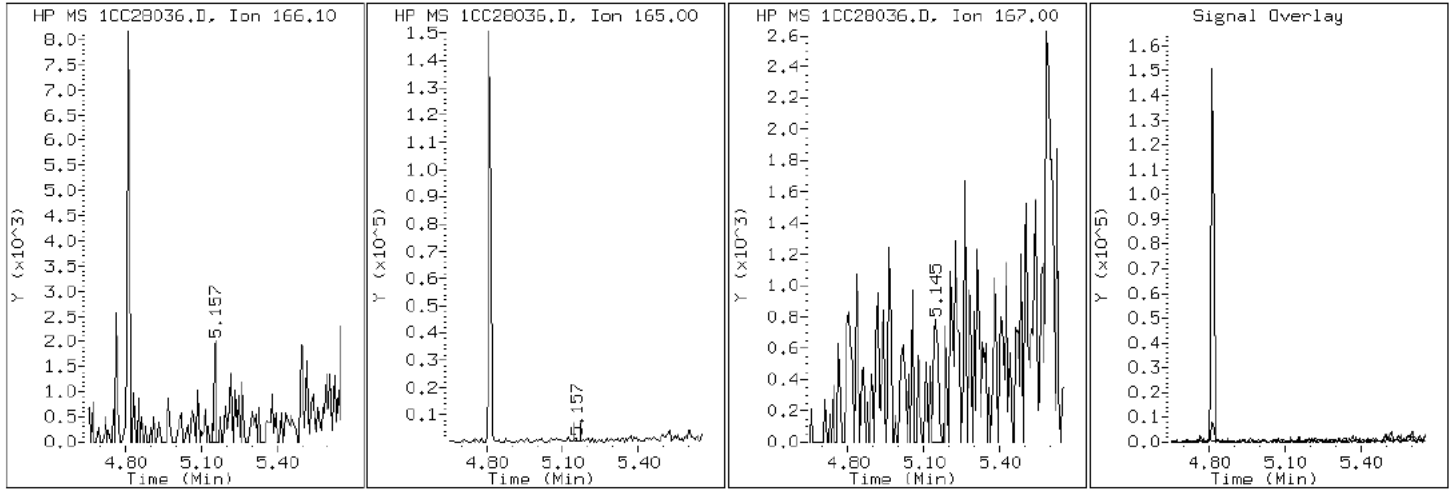
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

9 Fluorene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

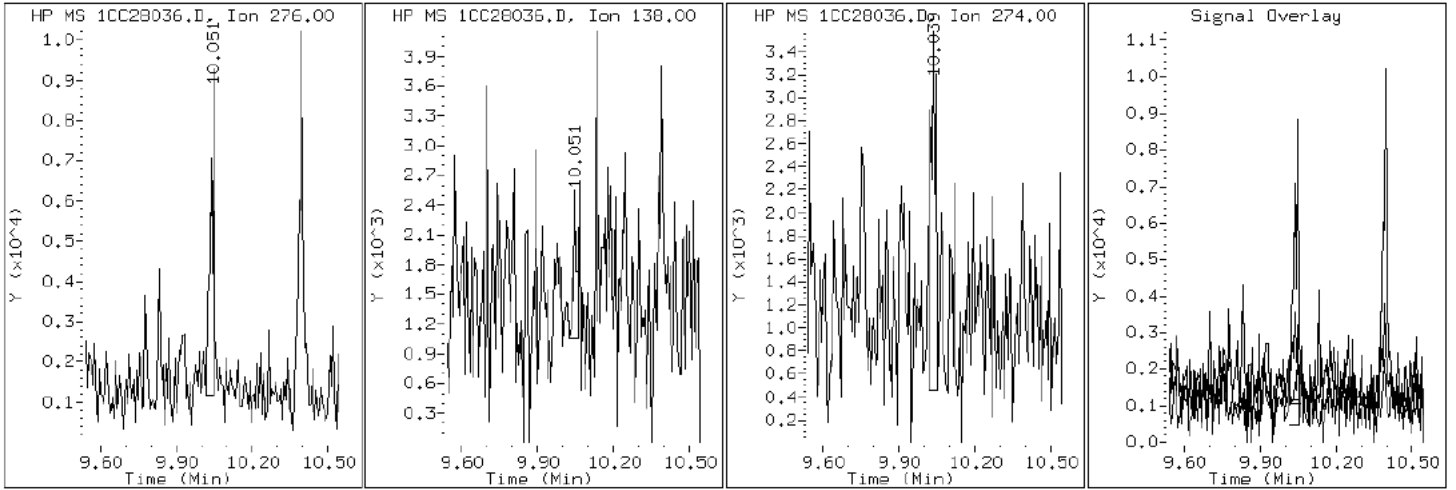
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

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



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

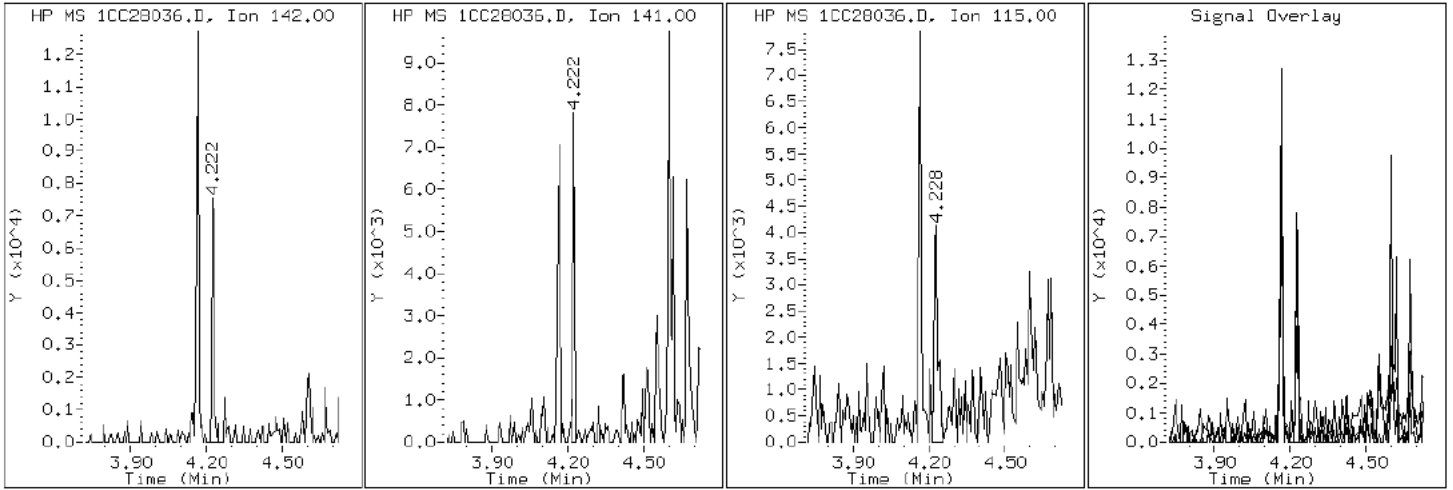
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

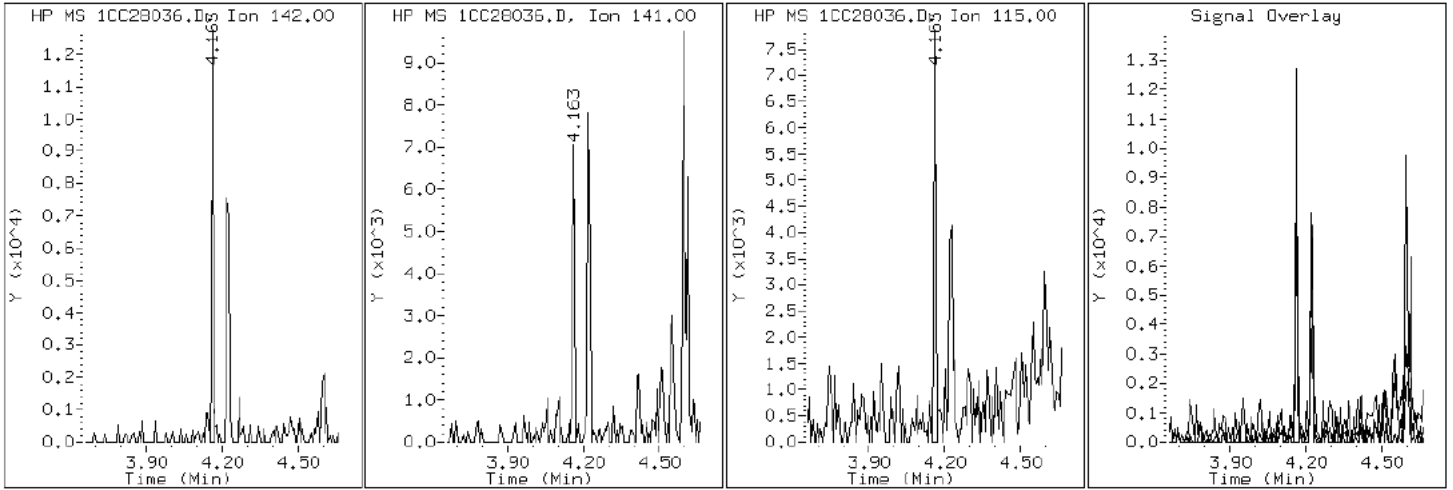
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

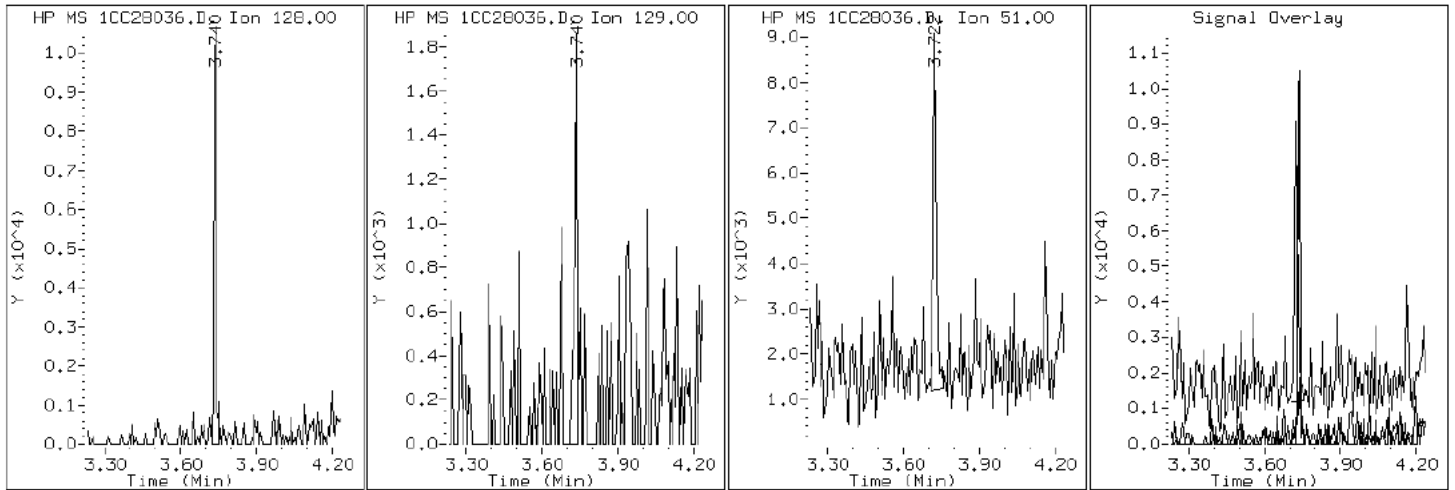
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

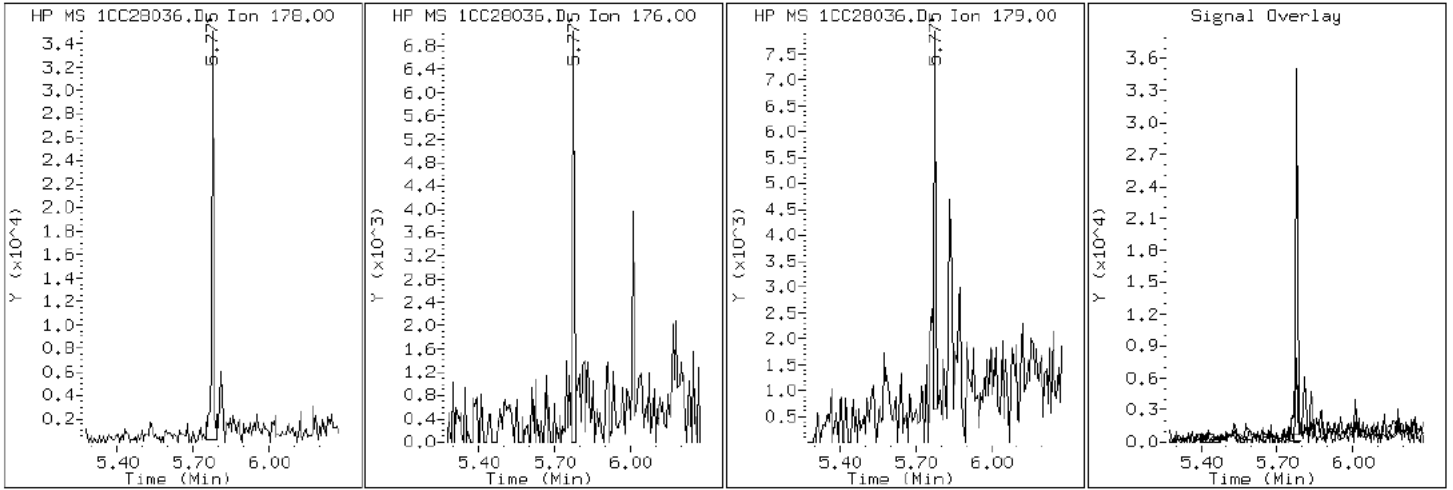
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

11 Phenanthrene





Data File: 1CC28036.D

Date: 28-MAR-2013 22:06

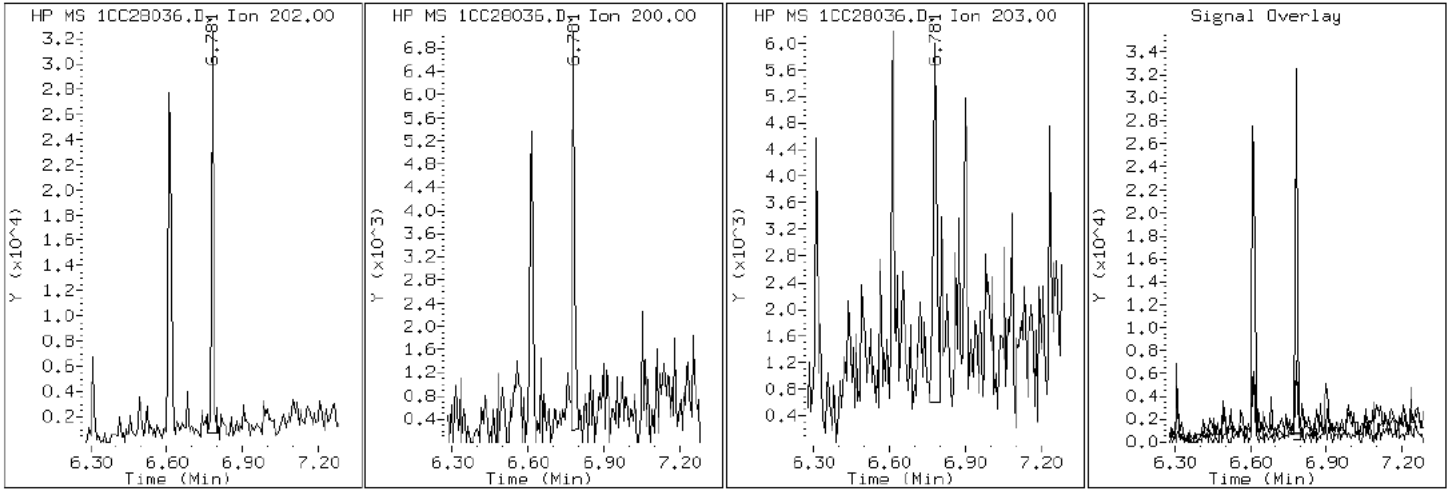
Client ID: CV0368B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-18-a

Operator: SCC

16 Pyrene

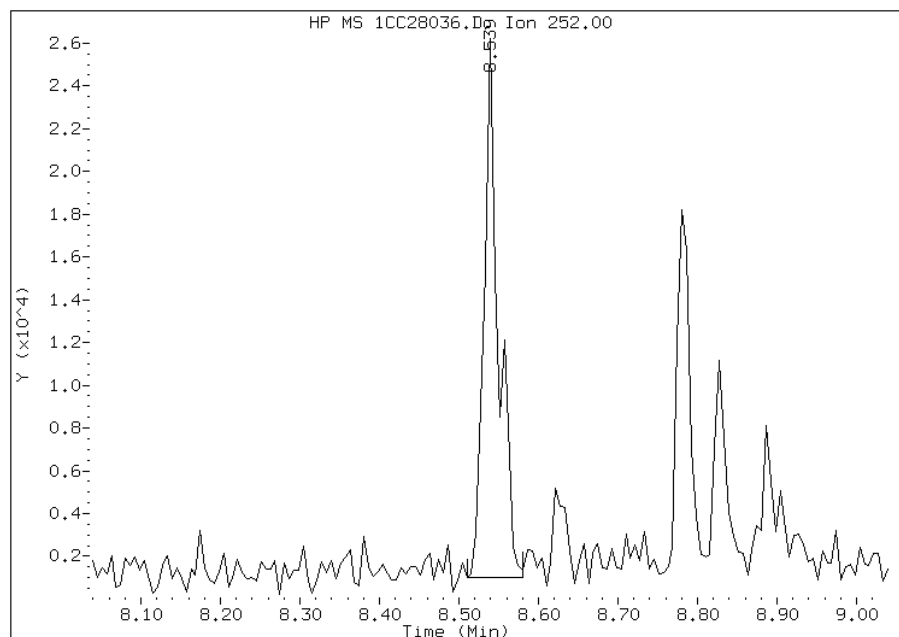


# Manual Integration Report

Data File: 1CC28036.D  
Inj. Date and Time: 28-MAR-2013 22:06  
Instrument ID: BSMC5973.i  
Client ID: CV0368B-CS-SP  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/02/2013

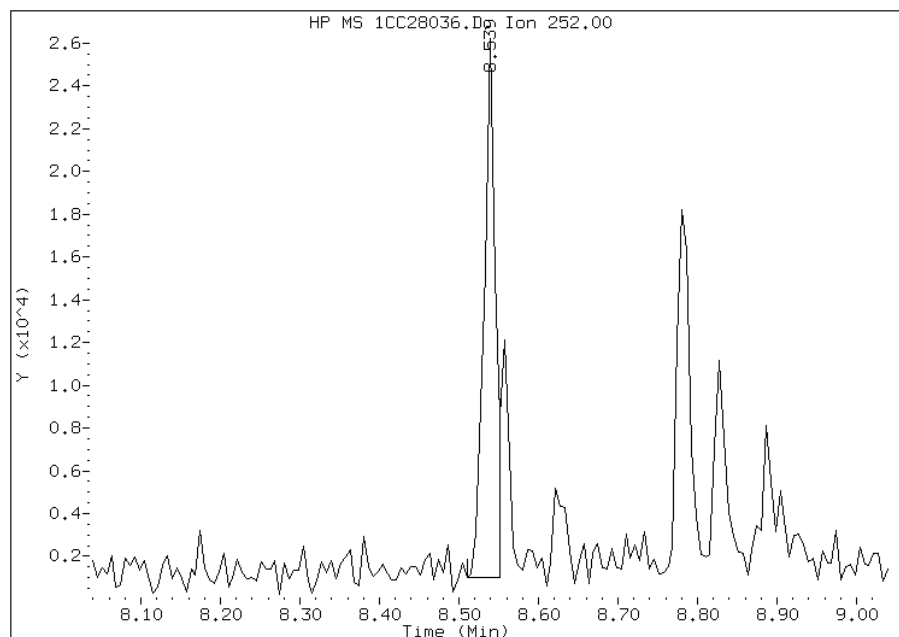
## Processing Integration Results

RT: 8.54  
Response: 31969  
Amount: 1  
Conc: 270



## Manual Integration Results

RT: 8.54  
Response: 25211  
Amount: 1  
Conc: 213



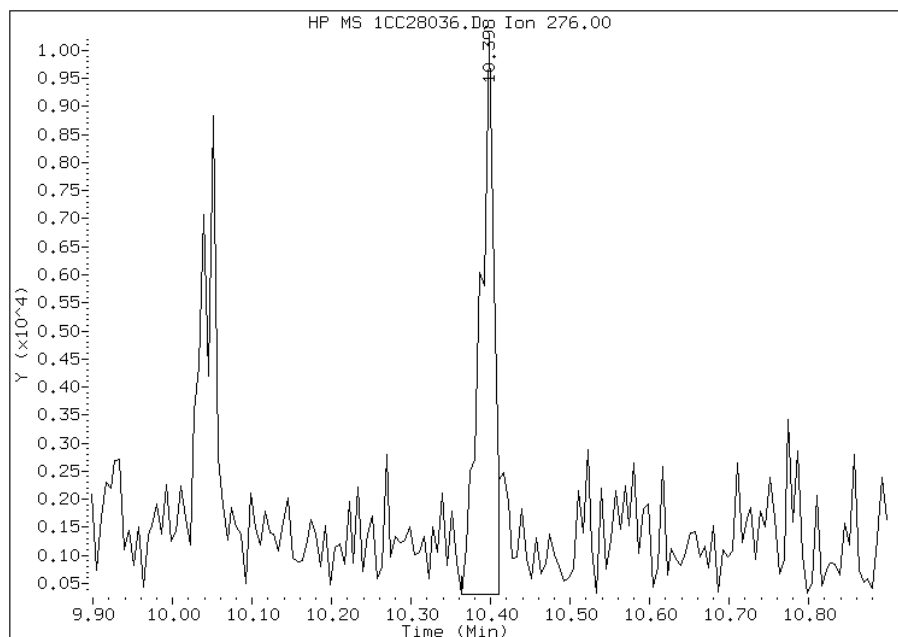
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:16  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC28036.D  
Inj. Date and Time: 28-MAR-2013 22:06  
Instrument ID: BSMC5973.i  
Client ID: CV0368B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/02/2013

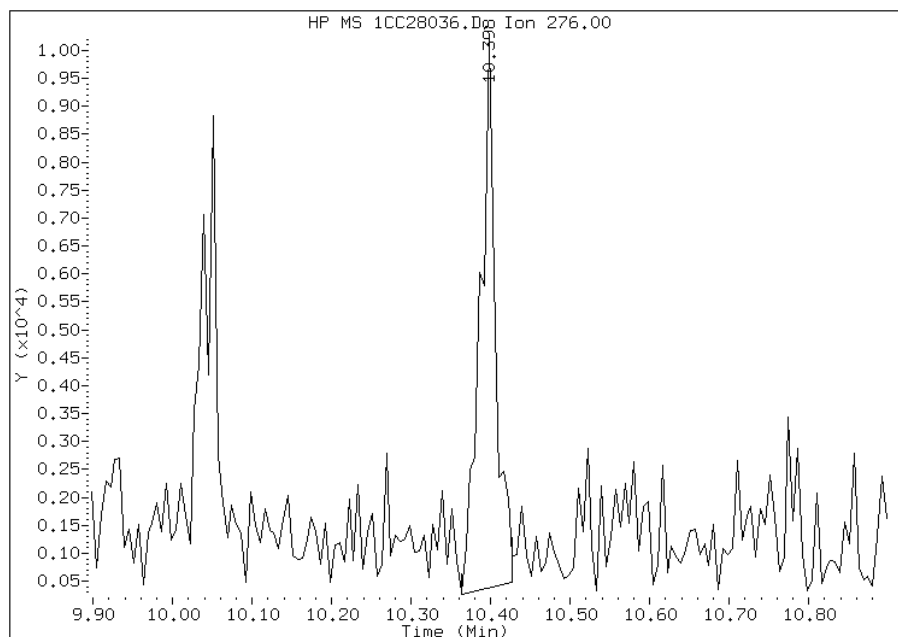
## Processing Integration Results

RT: 10.40  
Response: 12069  
Amount: 0  
Conc: 107



## Manual Integration Results

RT: 10.40  
Response: 13348  
Amount: 0  
Conc: 118



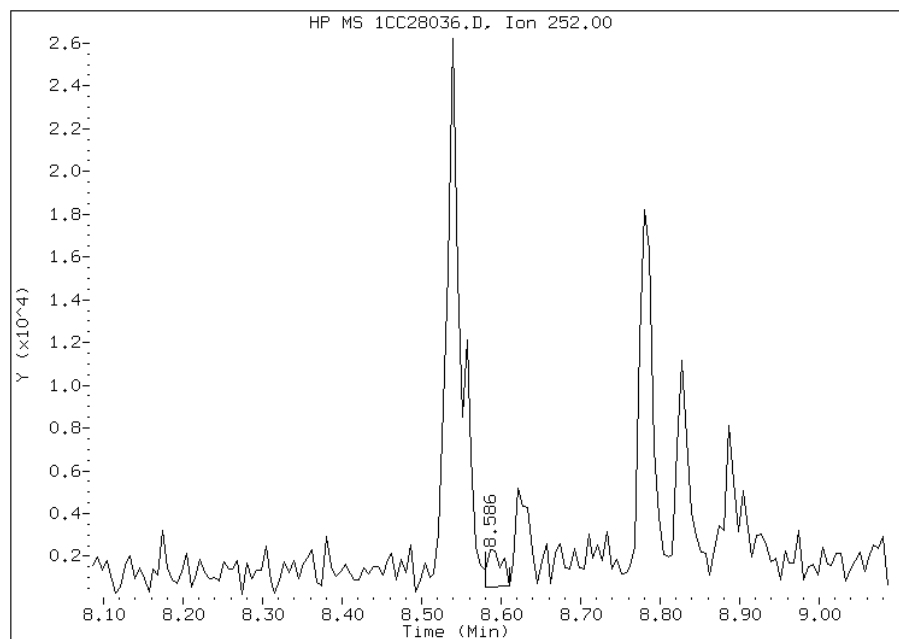
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28036.D  
Inj. Date and Time: 28-MAR-2013 22:06  
Instrument ID: BSMC5973.i  
Client ID: CV0368B-CS-SP  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/02/2013

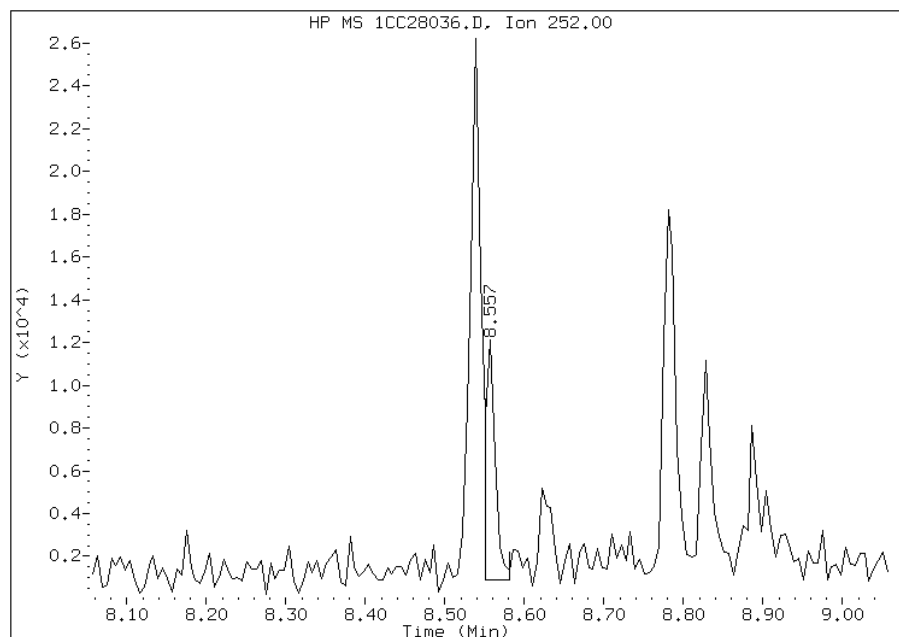
## Processing Integration Results

RT: 8.59  
Response: 2260  
Amount: 0  
Conc: 19



## Manual Integration Results

RT: 8.56  
Response: 9672  
Amount: 0  
Conc: 80



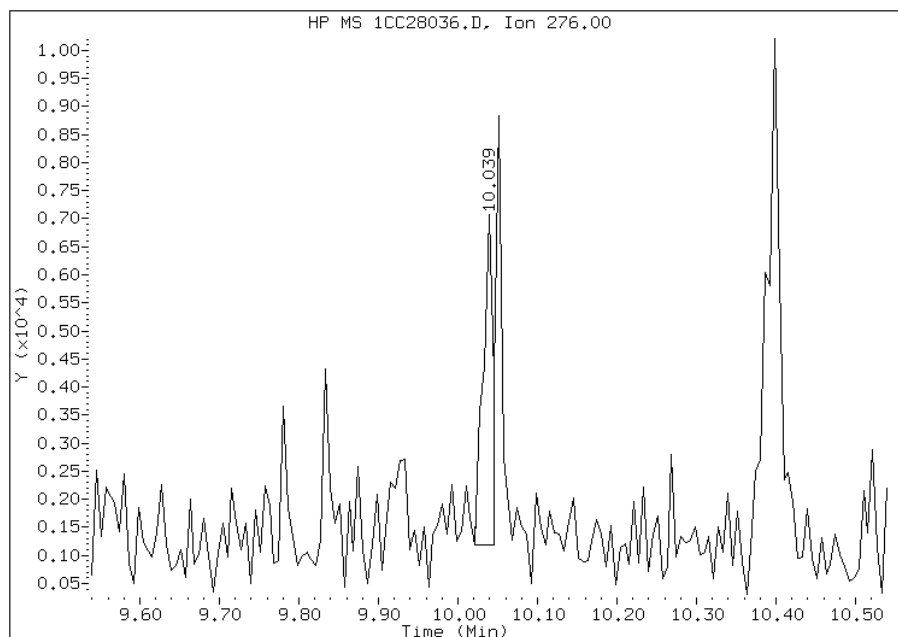
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:17  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28036.D  
Inj. Date and Time: 28-MAR-2013 22:06  
Instrument ID: BSMC5973.i  
Client ID: CV0368B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

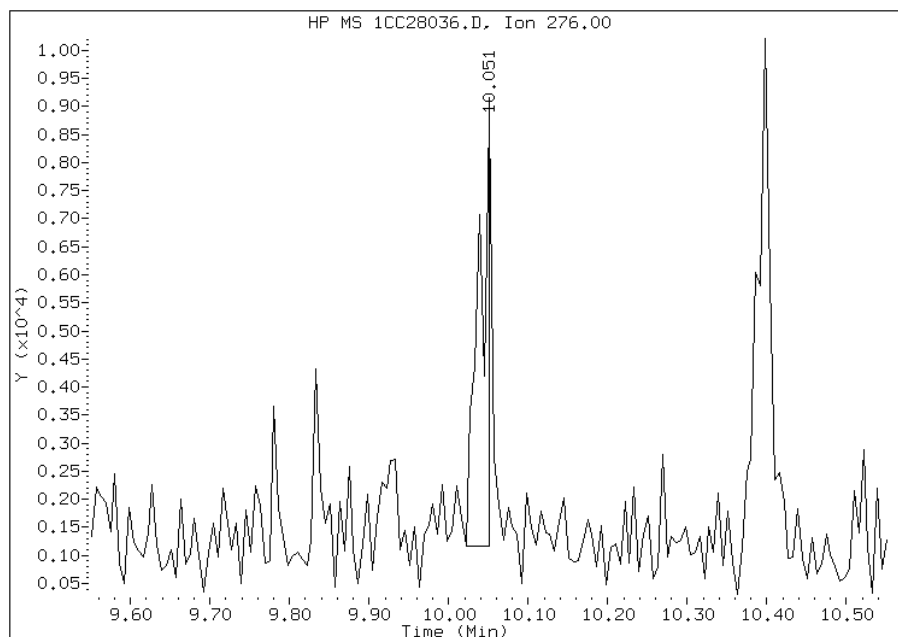
## Processing Integration Results

RT: 10.04  
Response: 5113  
Amount: 0  
Conc: 47



## Manual Integration Results

RT: 10.05  
Response: 7834  
Amount: 0  
Conc: 72



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:18  
Manual Integration Reason: Baseline Event

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0443A-CS-SP Lab Sample ID: 680-88632-19  
 Matrix: Solid Lab File ID: 1CC28037.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 14:57  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.42(g) Date Analyzed: 03/28/2013 22:24  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 17.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	29	J	120	24
208-96-8	Acenaphthylene	6.2	J	47	5.9
120-12-7	Anthracene	75		9.9	5.0
56-55-3	Benzo[a]anthracene	230		9.4	4.6
50-32-8	Benzo[a]pyrene	170		12	6.1
205-99-2	Benzo[b]fluoranthene	270		14	7.2
191-24-2	Benzo[g,h,i]perylene	110		24	5.2
207-08-9	Benzo[k]fluoranthene	120		9.4	4.2
218-01-9	Chrysene	230		11	5.3
53-70-3	Dibenz(a,h)anthracene	31		24	4.8
206-44-0	Fluoranthene	470		24	4.7
86-73-7	Fluorene	19	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.4
90-12-0	1-Methylnaphthalene	52		47	5.2
91-57-6	2-Methylnaphthalene	75		47	8.4
91-20-3	Naphthalene	62		47	5.2
85-01-8	Phenanthrene	380		9.4	4.6
129-00-0	Pyrene	400		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28037.D  
 Lab Smp Id: 680-88632-a-19-a  
 Inj Date : 28-MAR-2013 22:24  
 Operator : SCC  
 Smp Info : 680-88632-a-19-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28037.D  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 37  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 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	15.420	Weight Extracted
M	18.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	949385	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	745111	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1320447	40.0000	
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	92073	4.61831	365.2457
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1419591	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1340808	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	19364	0.78346	61.9608(Q)
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	15673	0.95064	75.1830
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	9874	0.65759	52.0063
5 Acenaphthylene	152		4.727	4.722	(0.983)	2356	0.07843	6.2025
7 Acenaphthene	154		4.833	4.833	(1.005)	6774	0.36279	28.6918
9 Fluorene	166		5.151	5.151	(1.071)	5626	0.23825	18.8422(Q)
11 Phenanthrene	178		5.774	5.774	(1.002)	184326	4.82763	381.7995
12 Anthracene	178		5.810	5.810	(1.008)	35445	0.94922	75.0702

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	15674	0.47220	37.3443(Q)
15 Fluoranthene	202	6.615	6.616	(1.148)	250621	5.99380	474.0282
16 Pyrene	202	6.780	6.780	(0.880)	195725	5.13048	405.7509
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	121604	2.96797	234.7258
19 Chrysene	228	7.721	7.721	(1.002)	119784	2.92135	231.0392
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	122043	3.48293	275.4525(M)
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	54402	1.51344	119.6925(M)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	75302	2.21245	174.9745
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	47711	1.49014	117.8495(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.062	(1.133)	12506	0.39932	31.5810(M)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	47877	1.42945	113.0497

QC Flag Legend

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



Data File: 1CC28037.D

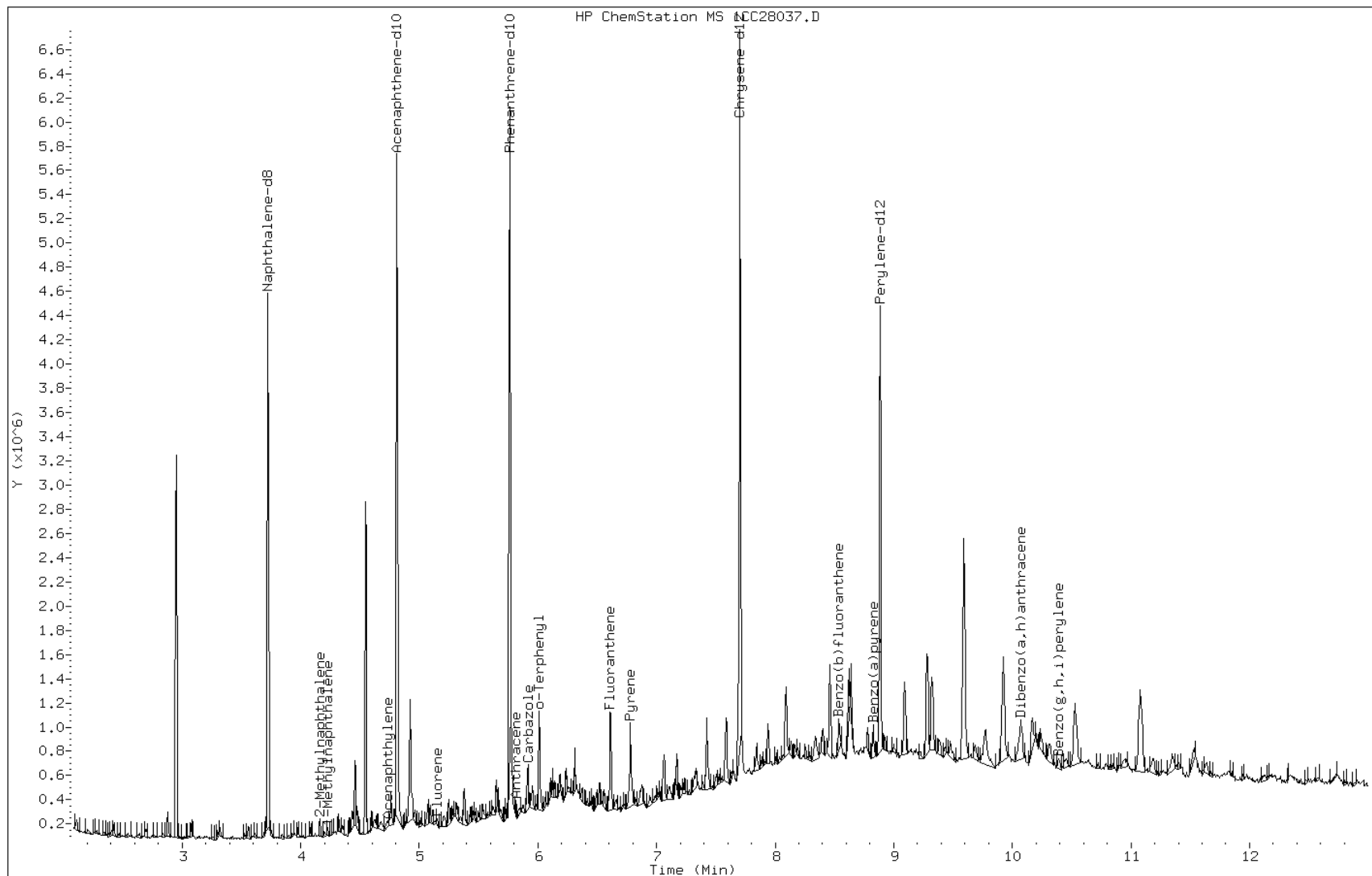
Date: 28-MAR-2013 22:24

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

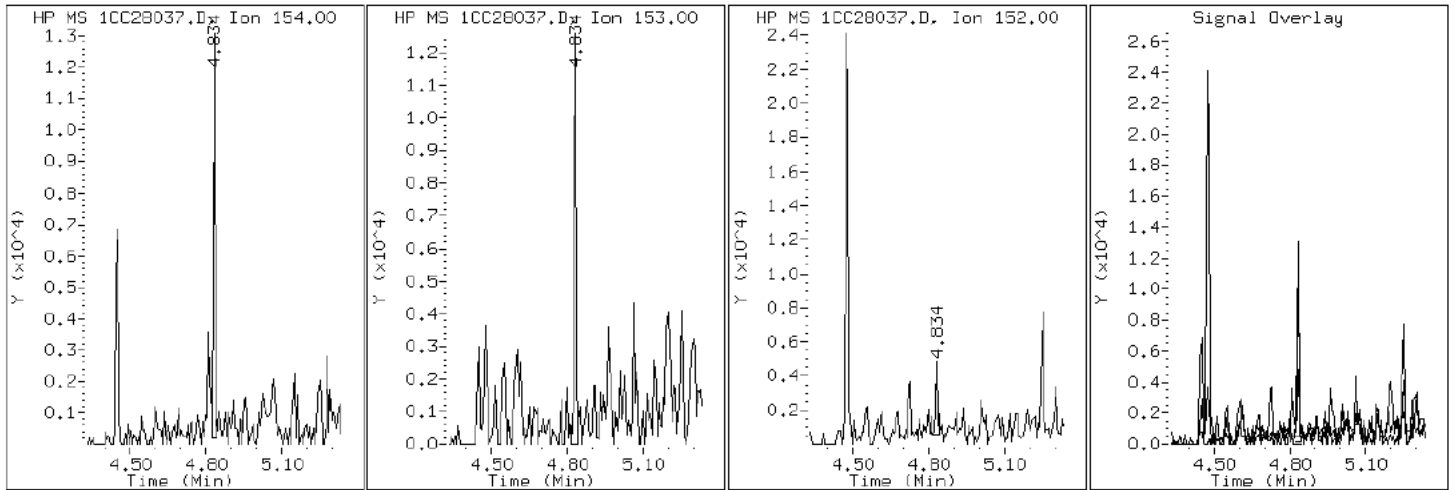
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

7 Acenaphthene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

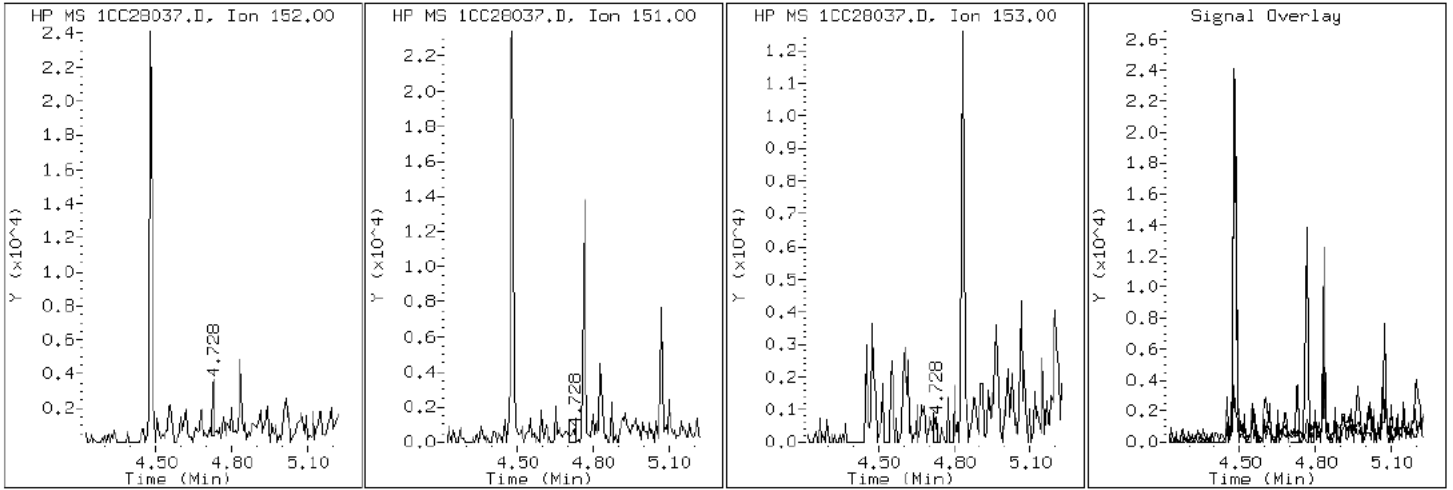
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

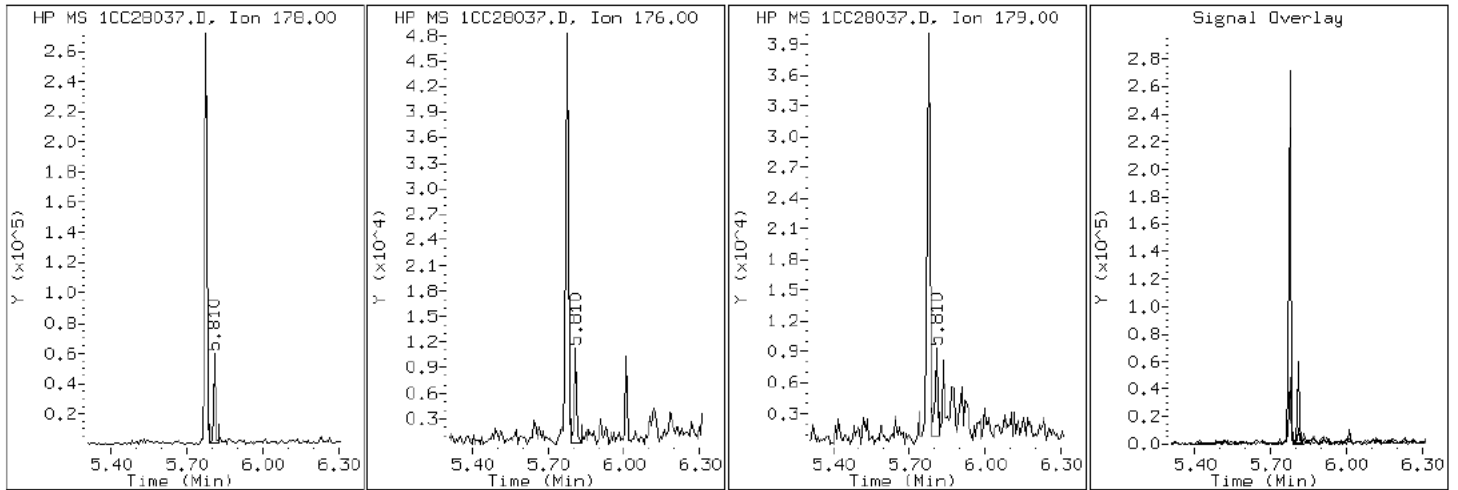
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

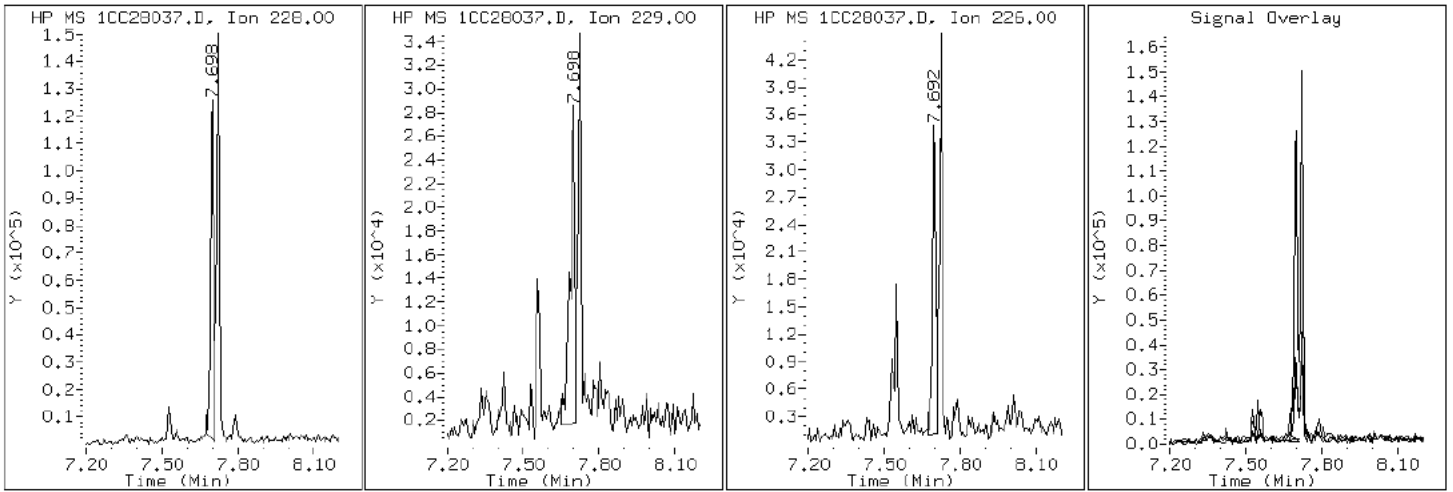
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

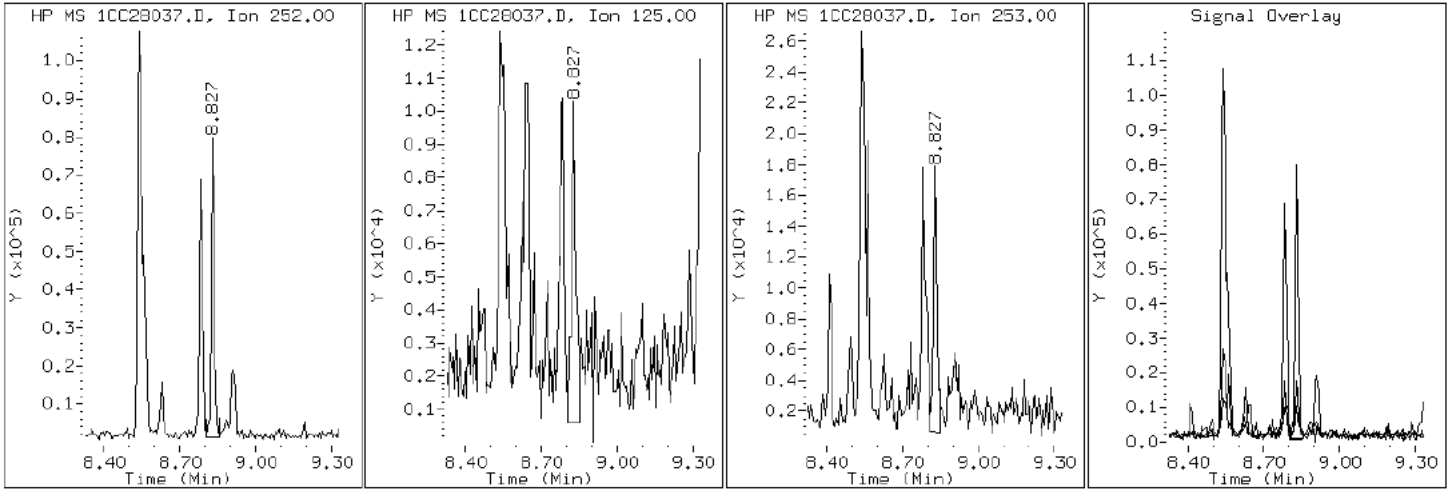
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

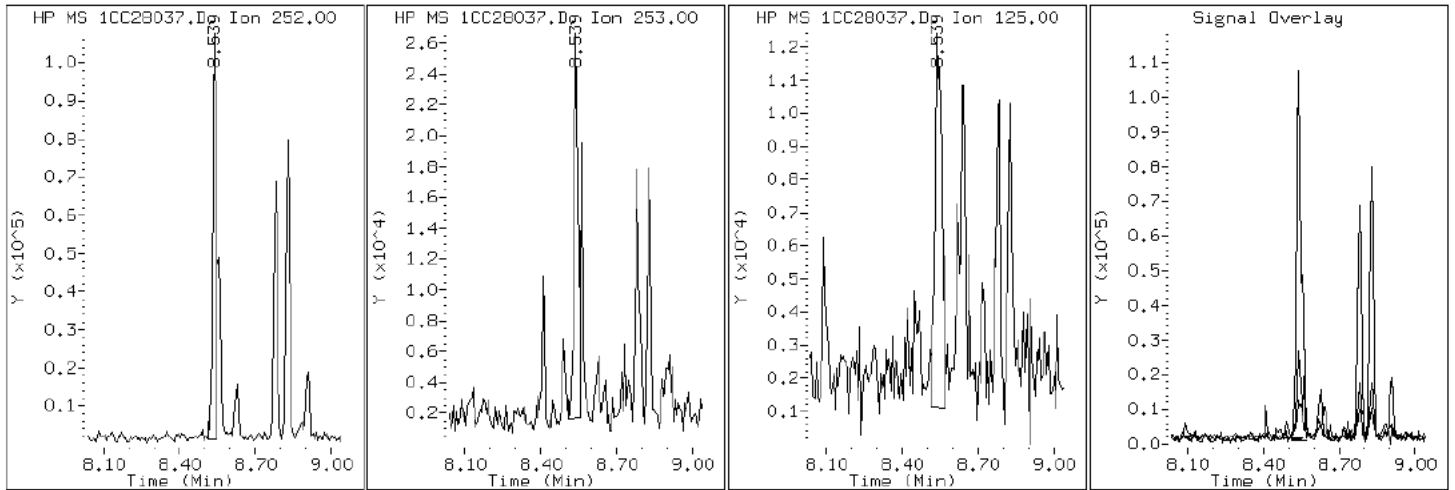
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

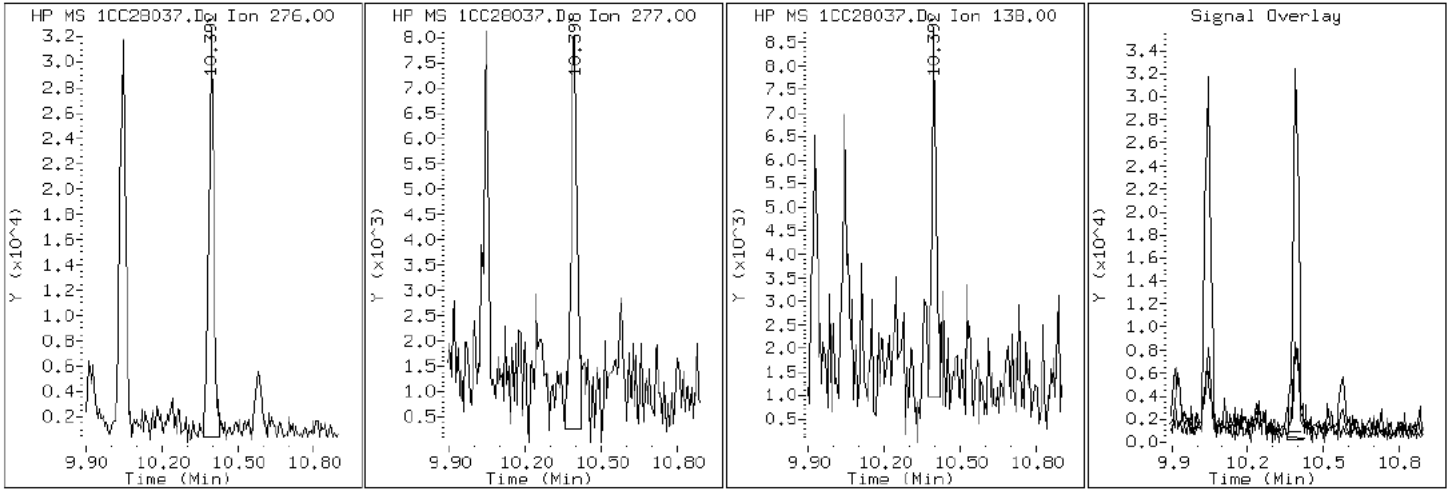
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene





Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

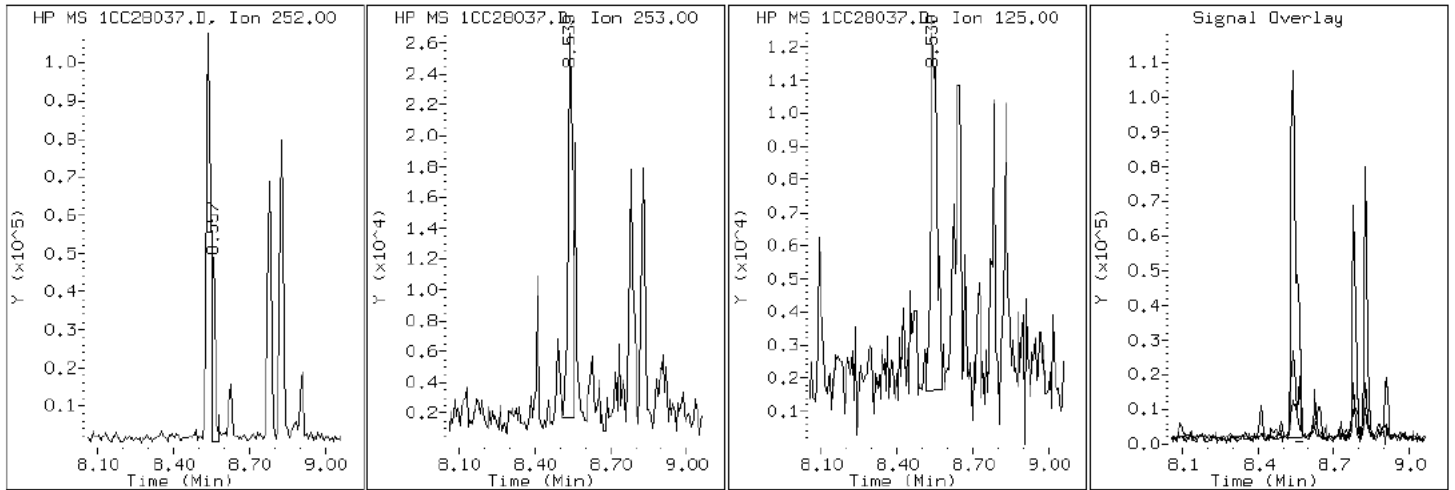
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

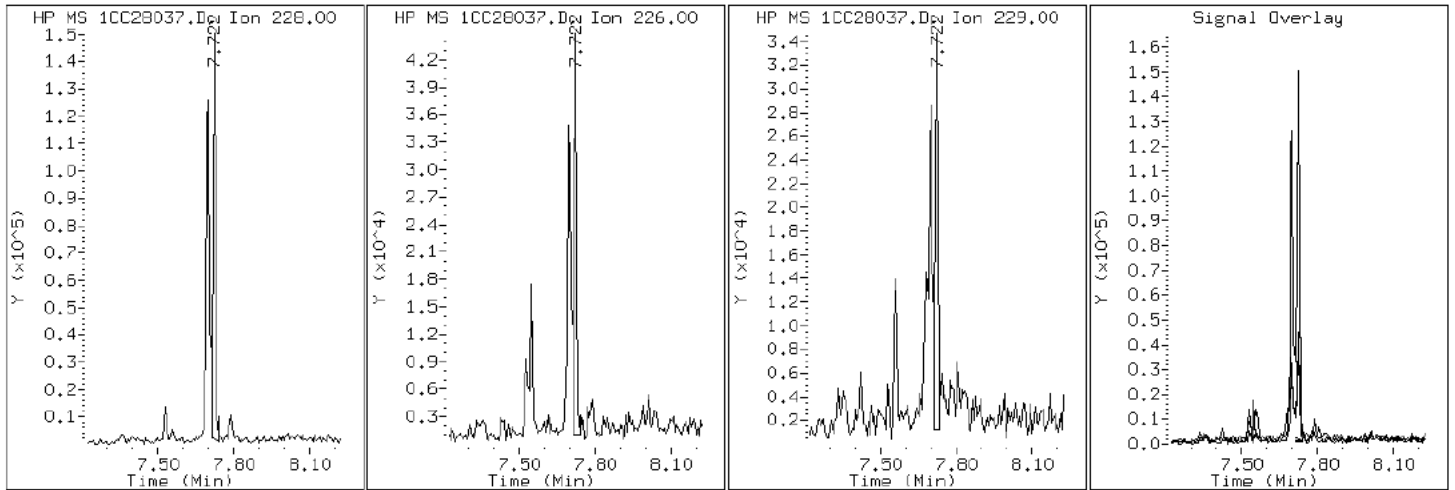
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

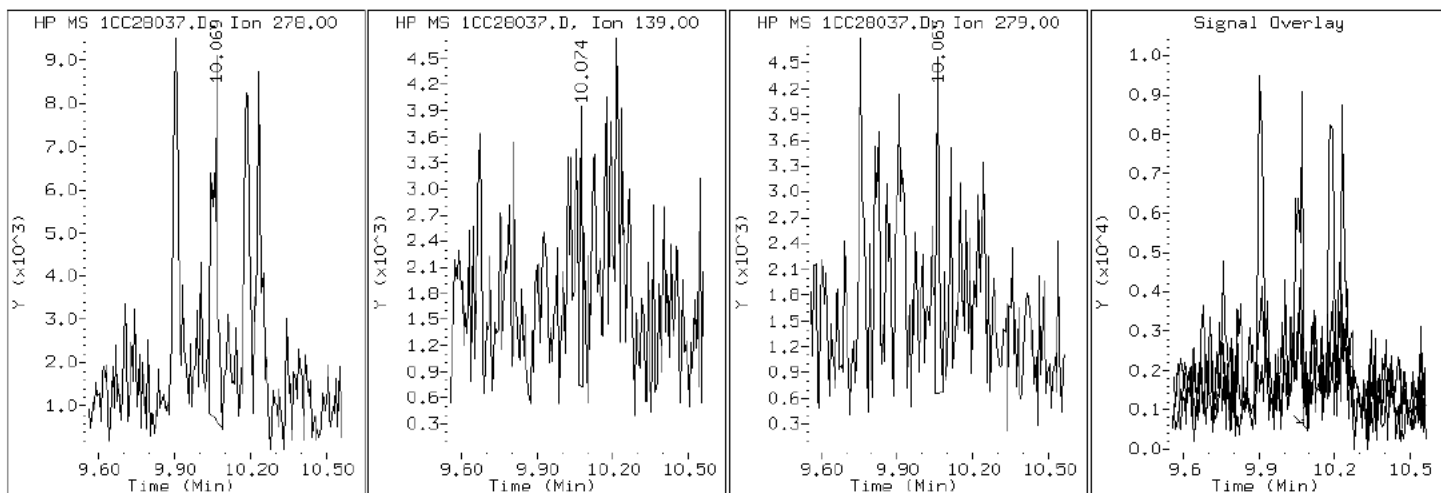
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

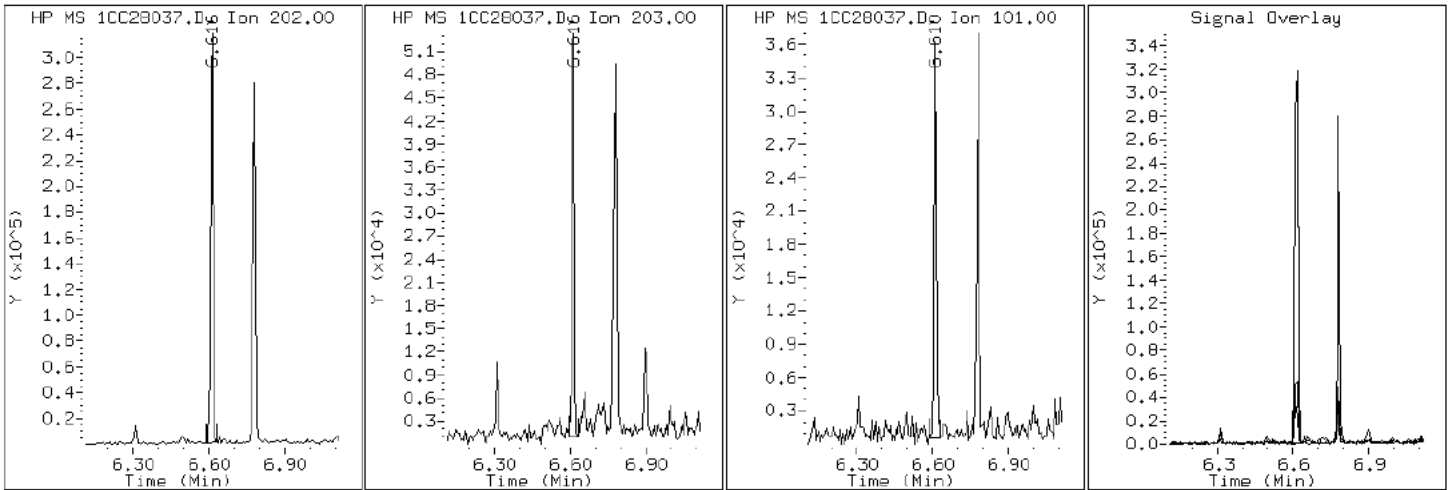
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

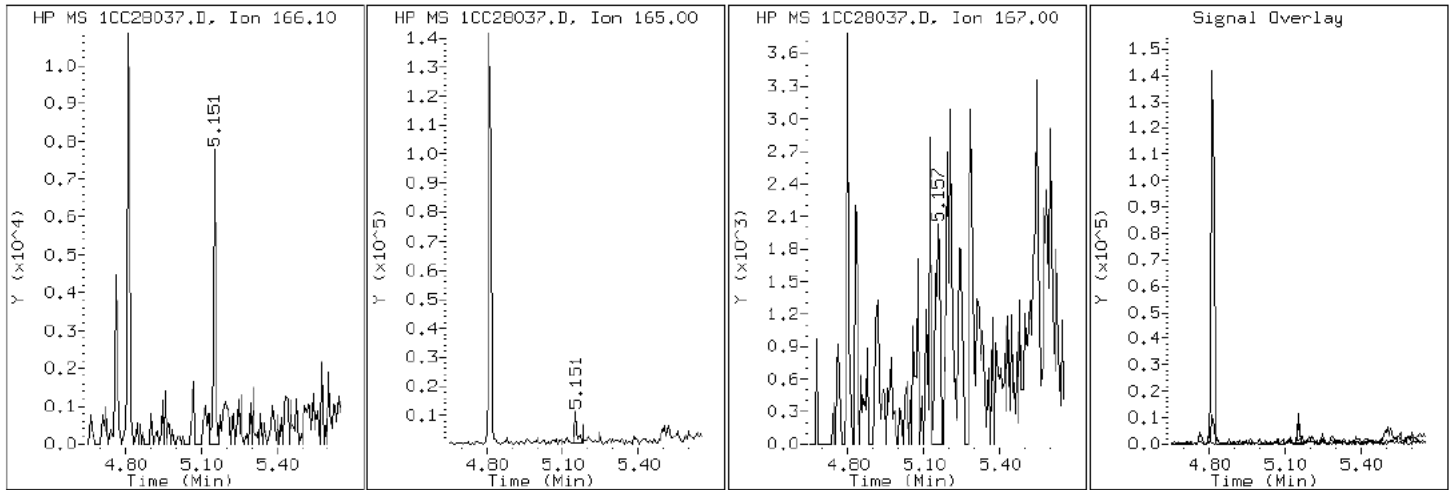
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

9 Fluorene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

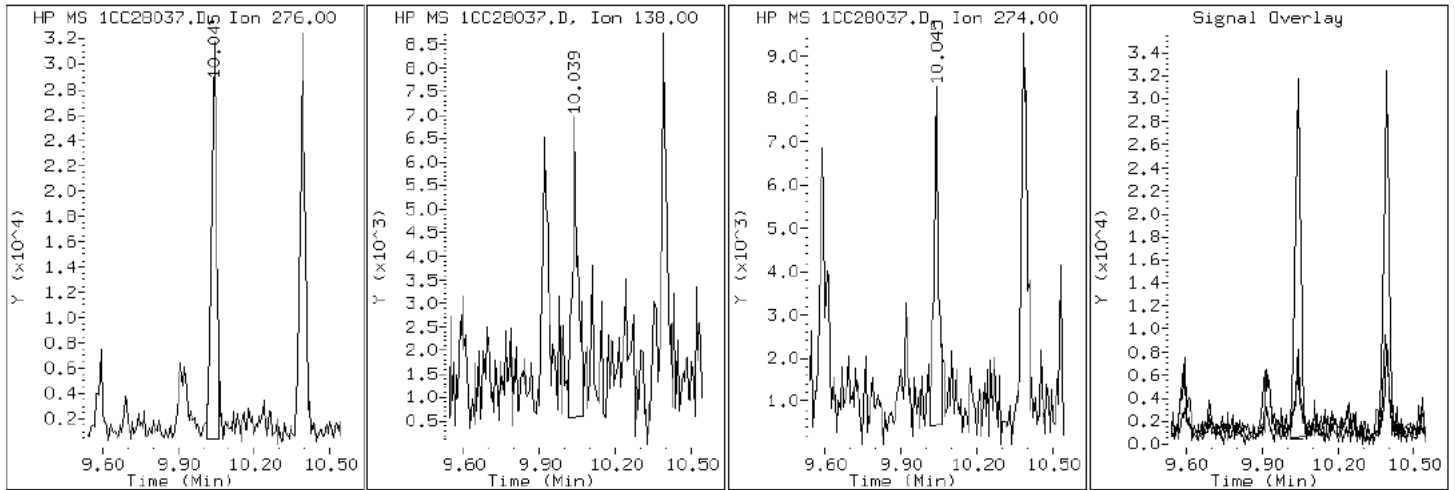
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

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



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

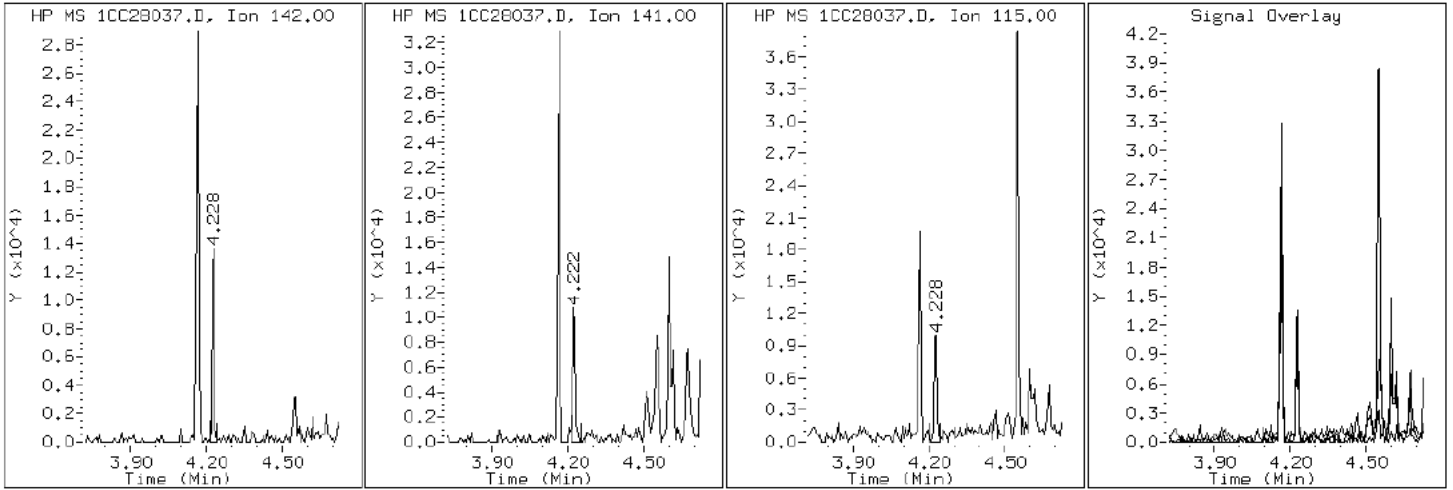
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

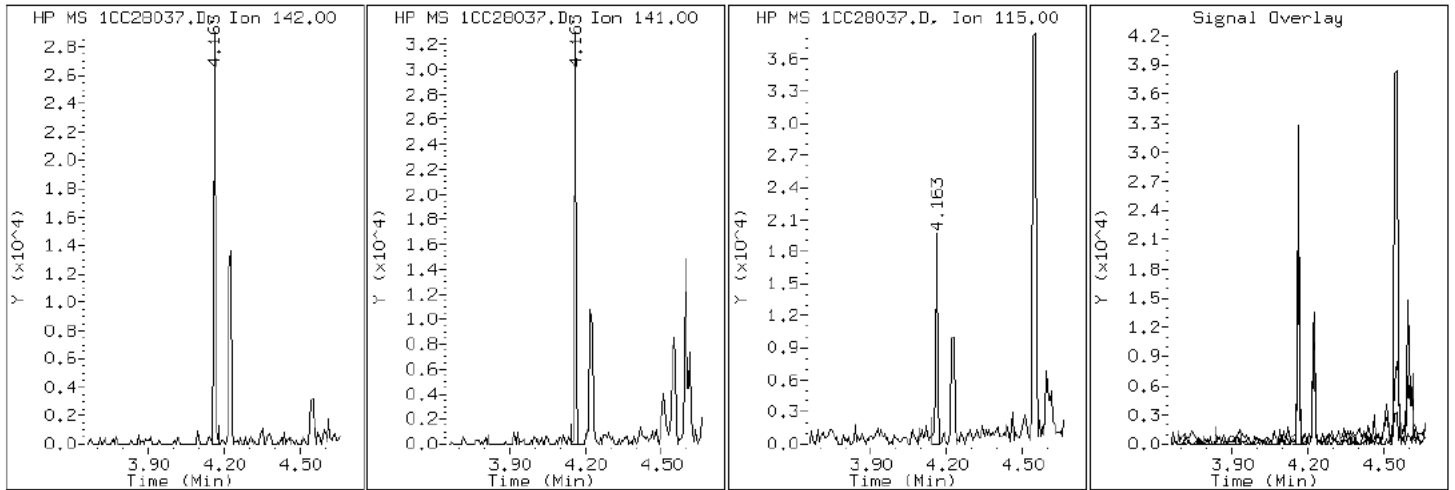
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

3 2-Methylnaphthalene





Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

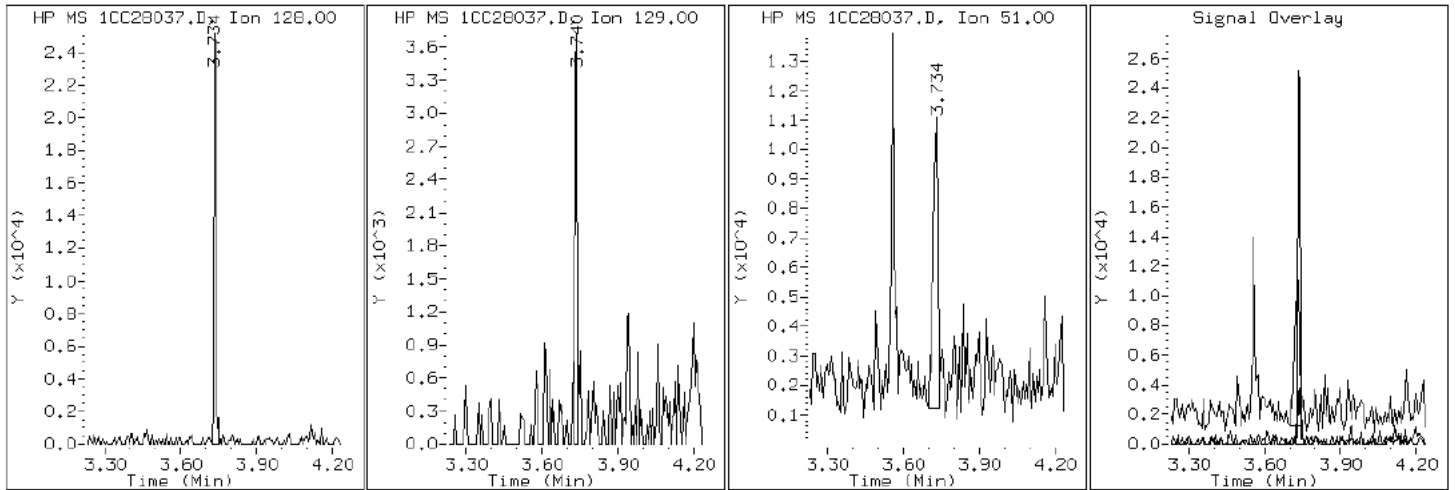
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

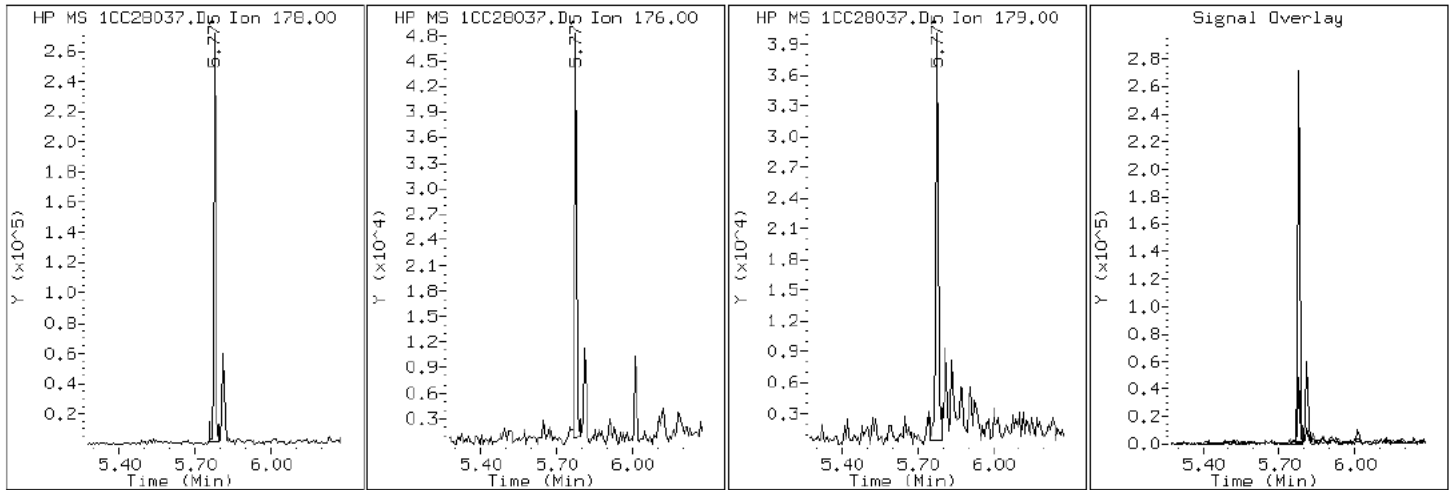
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28037.D

Date: 28-MAR-2013 22:24

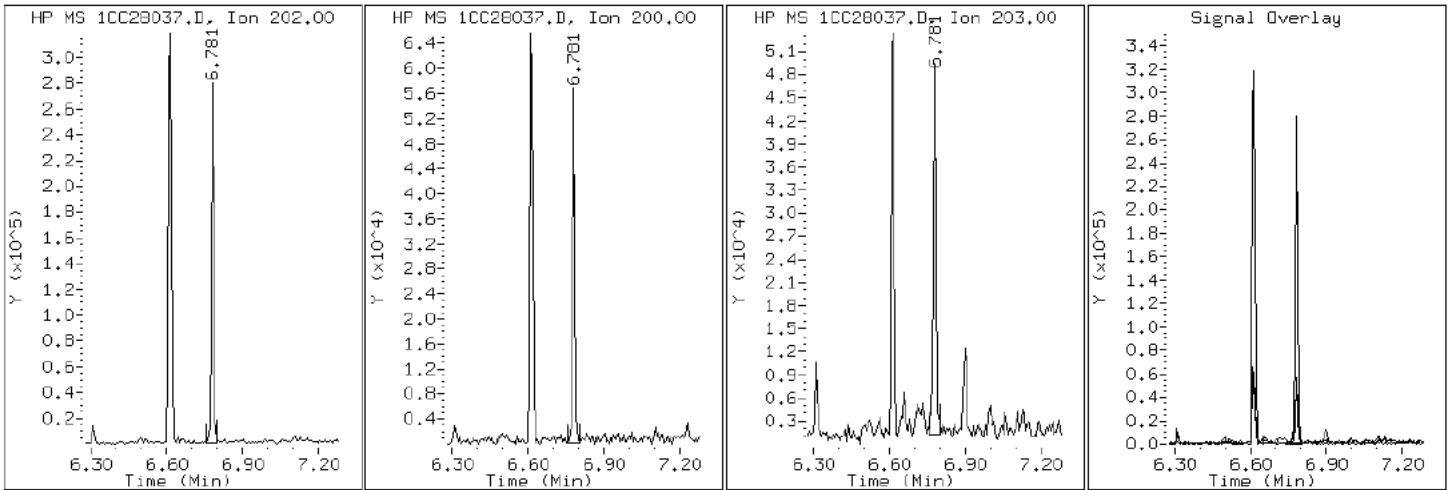
Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-19-a

Operator: SCC

16 Pyrene

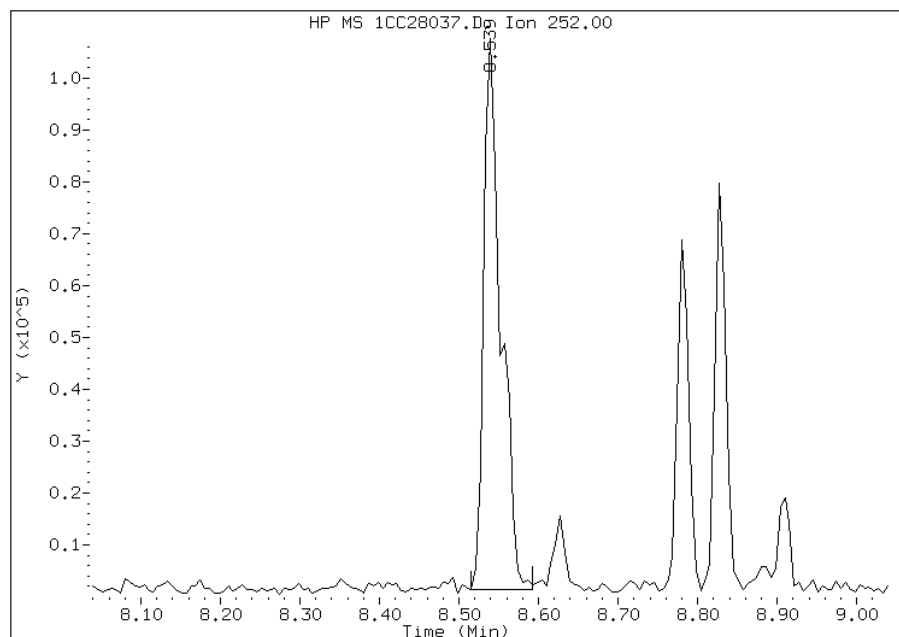


# Manual Integration Report

Data File: 1CC28037.D  
Inj. Date and Time: 28-MAR-2013 22:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 20 Benzo(b)fluoranthene  
CAS #: 205-99-2  
Report Date: 04/02/2013

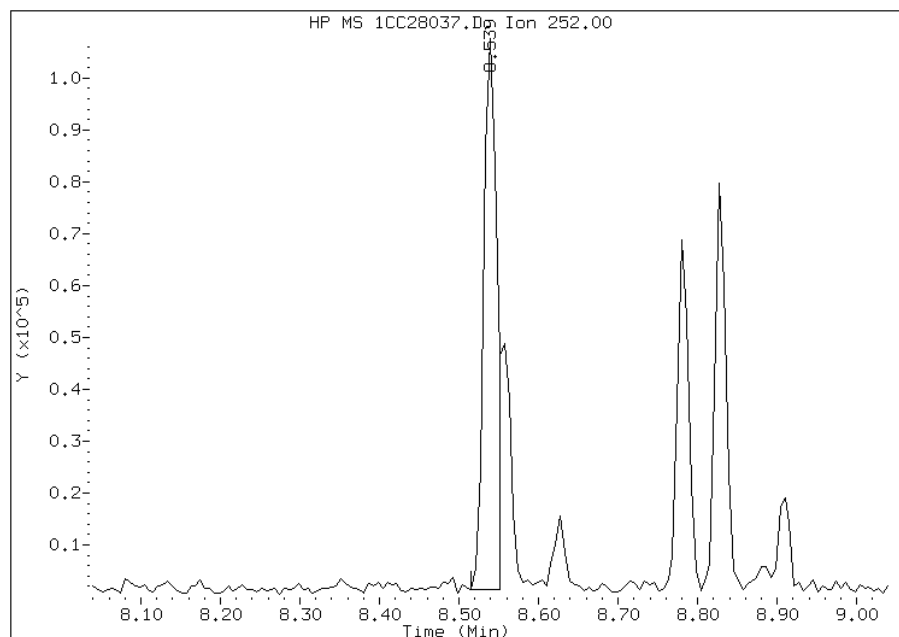
## Processing Integration Results

RT: 8.54  
Response: 160047  
Amount: 5  
Conc: 361



## Manual Integration Results

RT: 8.54  
Response: 122043  
Amount: 3  
Conc: 275



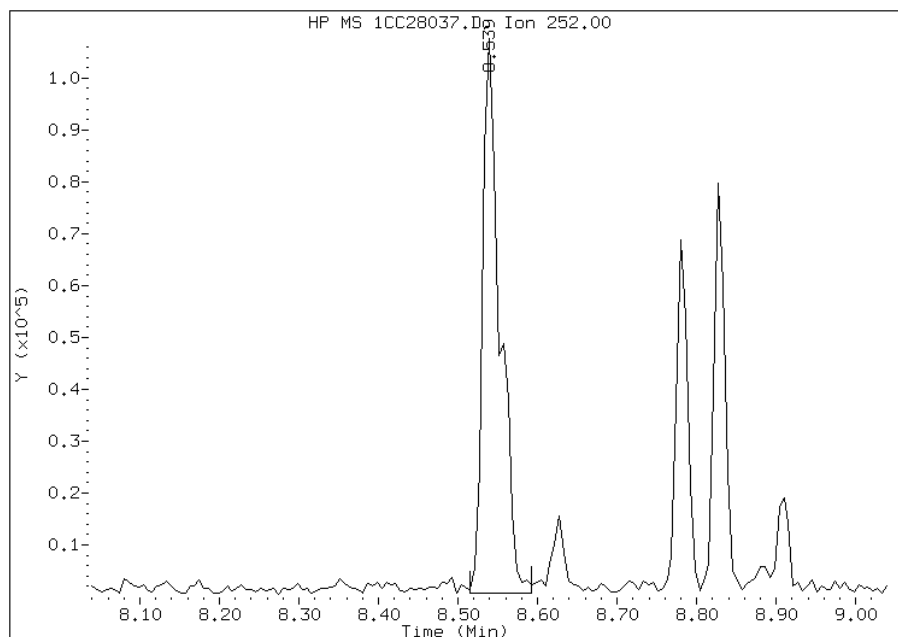
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:18  
Manual Integration Reason: Split Peak

# Manual Integration Report

Data File: 1CC28037.D  
Inj. Date and Time: 28-MAR-2013 22:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 21 Benzo(k)fluoranthene  
CAS #: 207-08-9  
Report Date: 04/02/2013

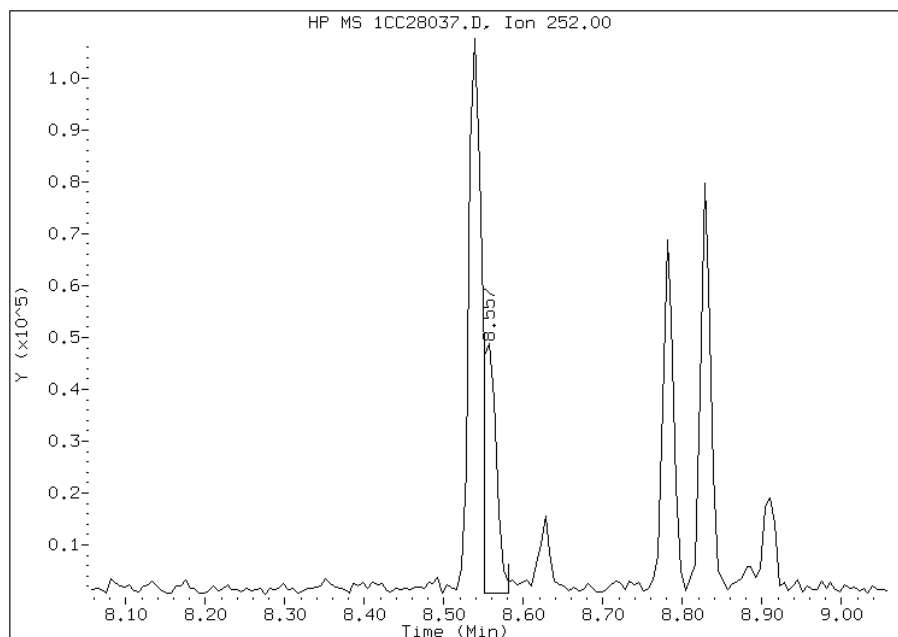
## Processing Integration Results

RT: 8.54  
Response: 163317  
Amount: 5  
Conc: 359



## Manual Integration Results

RT: 8.56  
Response: 54402  
Amount: 2  
Conc: 120



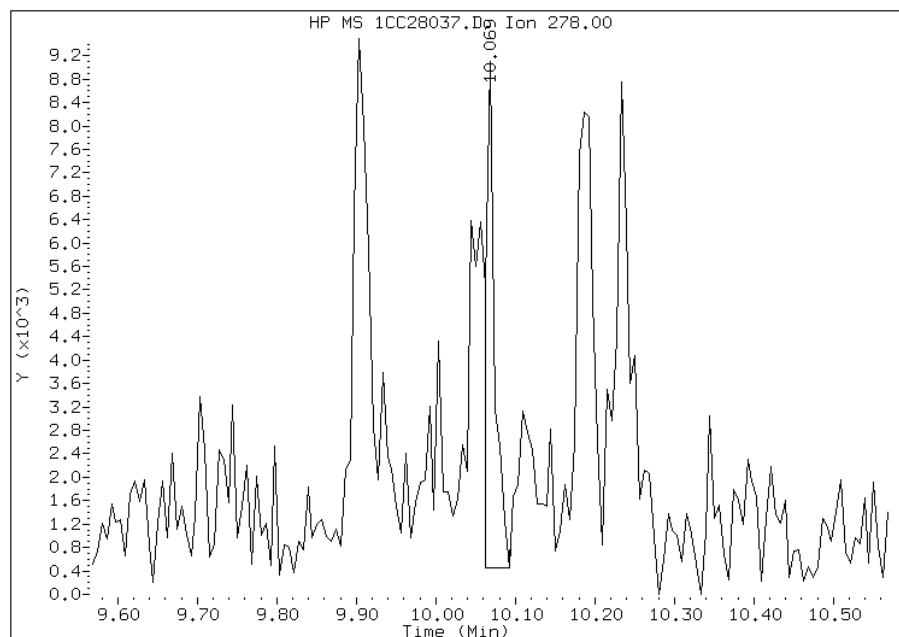
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:18  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28037.D  
Inj. Date and Time: 28-MAR-2013 22:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

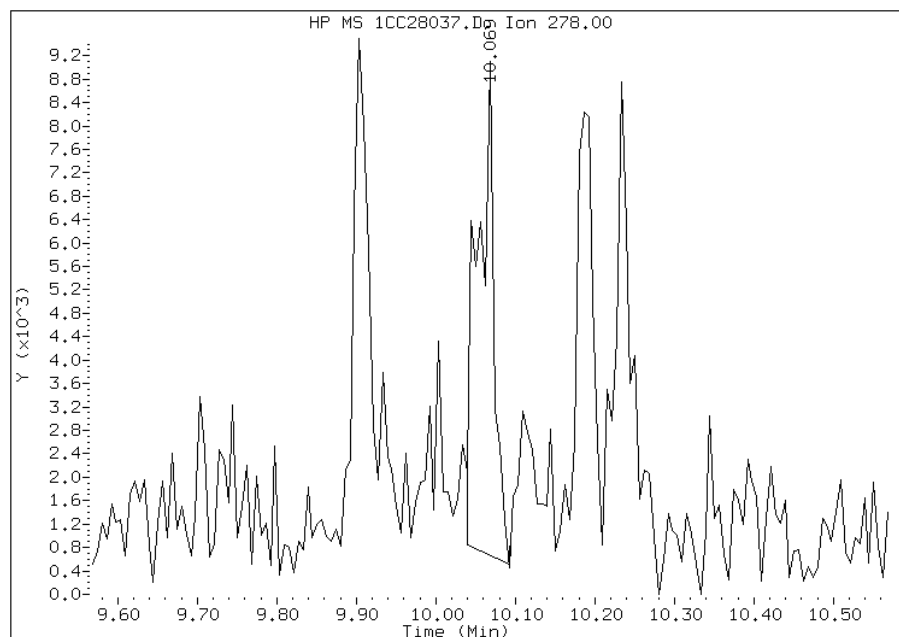
## Processing Integration Results

RT: 10.07  
Response: 6722  
Amount: 0  
Conc: 17



## Manual Integration Results

RT: 10.07  
Response: 12506  
Amount: 0  
Conc: 32



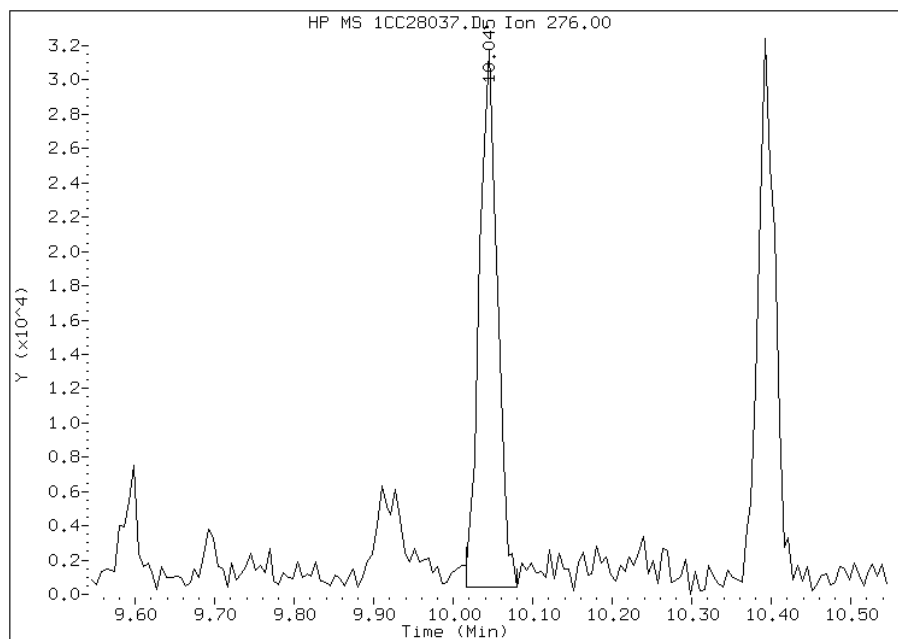
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:19  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28037.D  
Inj. Date and Time: 28-MAR-2013 22:24  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

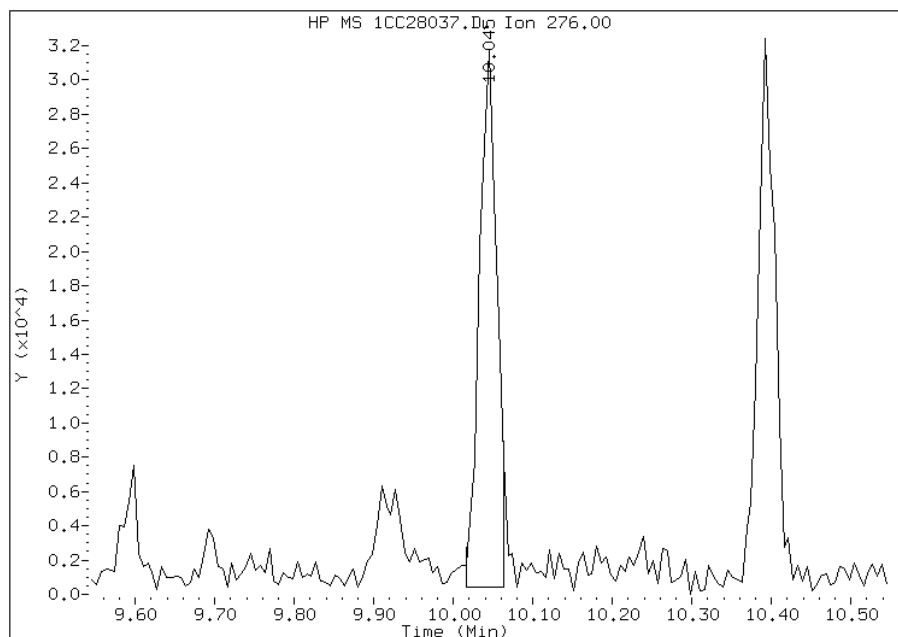
## Processing Integration Results

RT: 10.05  
Response: 49045  
Amount: 2  
Conc: 121



## Manual Integration Results

RT: 10.05  
Response: 47711  
Amount: 1  
Conc: 118



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:19  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0443B-CS-SP Lab Sample ID: 680-88632-20  
 Matrix: Solid Lab File ID: 1CC28038.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 14:59  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.09(g) Date Analyzed: 03/28/2013 22:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 25.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	18	J	53	6.6
120-12-7	Anthracene	15		11	5.6
56-55-3	Benzo[a]anthracene	81		11	5.2
50-32-8	Benzo[a]pyrene	64		14	6.9
205-99-2	Benzo[b]fluoranthene	170		16	8.1
191-24-2	Benzo[g,h,i]perylene	80		27	5.8
207-08-9	Benzo[k]fluoranthene	42		11	4.8
218-01-9	Chrysene	140		12	6.0
53-70-3	Dibenz(a,h)anthracene	28		27	5.4
206-44-0	Fluoranthene	120		27	5.3
86-73-7	Fluorene	12	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	48		27	9.4
90-12-0	1-Methylnaphthalene	80		53	5.8
91-57-6	2-Methylnaphthalene	90		53	9.4
91-20-3	Naphthalene	89		53	5.8
85-01-8	Phenanthrene	120		11	5.2
129-00-0	Pyrene	120		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28038.D  
Lab Smp Id: 680-88632-A-20-A Client Smp ID: CV0443B-CS-SP  
Inj Date : 28-MAR-2013 22:42  
Operator : SCC Inst ID: BSMC5973.i  
Smp Info : 680-88632-a-20-a  
Misc Info : 680-88632-A-20-A  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m  
Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
Als bottle: 38  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	25.142	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS					
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	917180	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	703884	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1277324	40.0000	
\$ 14 o-Terphenyl	230		6.009	6.010	(1.043)	96512	5.00440	443.0202
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1328645	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1245350	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	23946	1.00286	88.7794
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	16135	1.01303	89.6796
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	13189	0.90920	80.4882
5 Acenaphthylene	152		4.727	4.722	(0.983)	5883	0.20731	18.3519
9 Fluorene	166		5.151	5.151	(1.071)	2974	0.13332	11.8021(Q)
11 Phenanthrene	178		5.774	5.774	(1.002)	51961	1.40684	124.5419
12 Anthracene	178		5.810	5.810	(1.008)	6072	0.16810	14.8810
13 Carbazole	167		5.915	5.921	(1.027)	4765	0.14840	13.1370(Q)

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202		6.615	6.616	(1.148)	53832	1.33090	117.8193
16 Pyrene	202		6.780	6.780	(0.880)	48718	1.36444	120.7887
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	35203	0.91801	81.2674
19 Chrysene	228		7.721	7.721	(1.002)	61918	1.61345	142.8327
20 Benzo(b)fluoranthene	252		8.539	8.539	(0.961)	62225	1.91193	169.2557
21 Benzo(k)fluoranthene	252		8.562	8.562	(0.964)	15905	0.47639	42.1726(Q)
22 Benzo(a)pyrene	252		8.827	8.827	(0.993)	22755	0.71981	63.7220
24 Indeno(1,2,3-cd)pyrene	276		10.045	10.045	(1.130)	16083	0.54082	47.8763(M)
25 Dibenzo(a,h)anthracene	278		10.050	10.062	(1.131)	9062	0.31153	27.5788(M)
26 Benzo(g,h,i)perylene	276		10.397	10.398	(1.170)	28115	0.90376	80.0065(M)

QC Flag Legend

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

Data File: 1CC28038.D

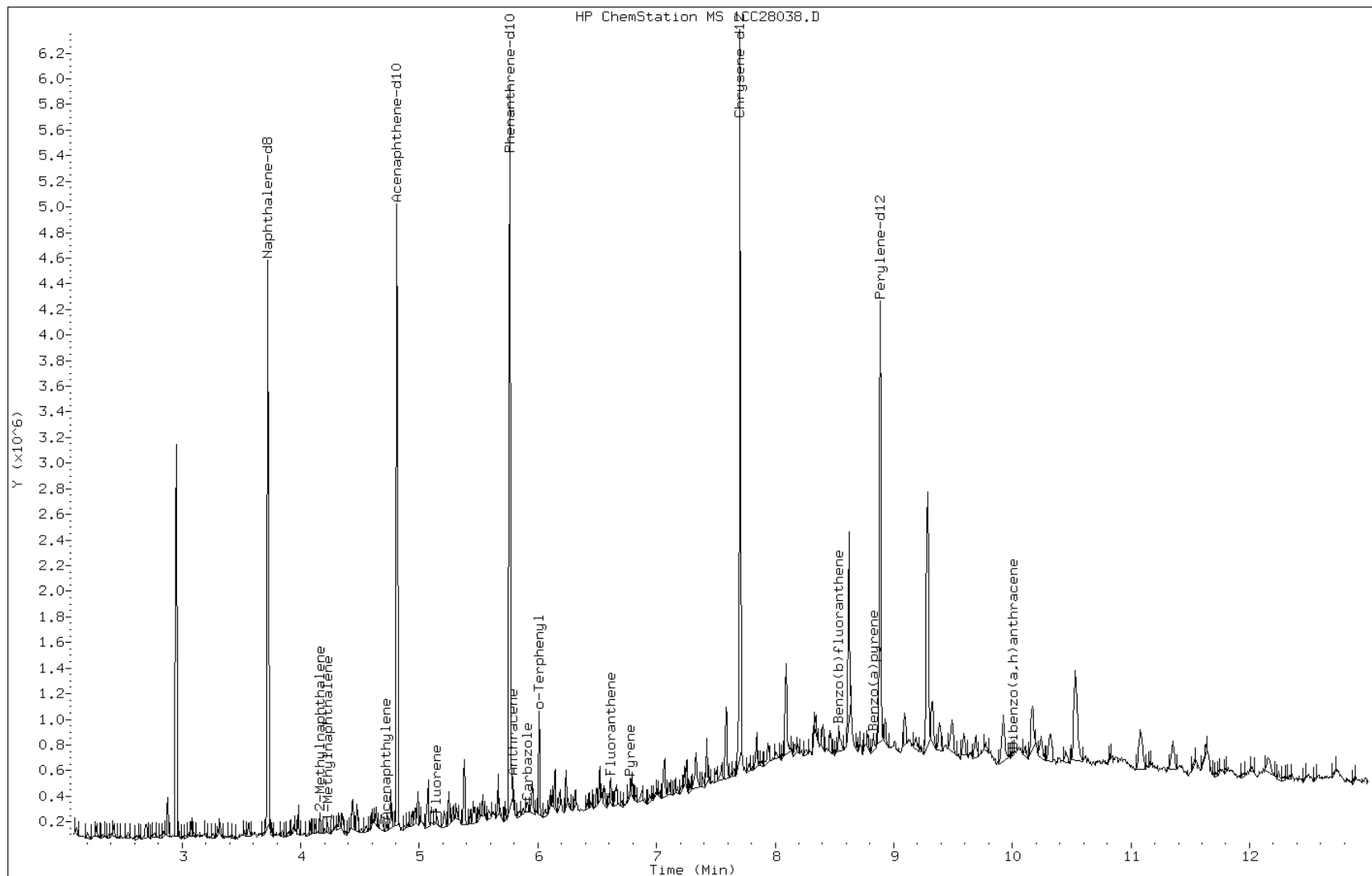
Date: 28-MAR-2013 22:42

Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

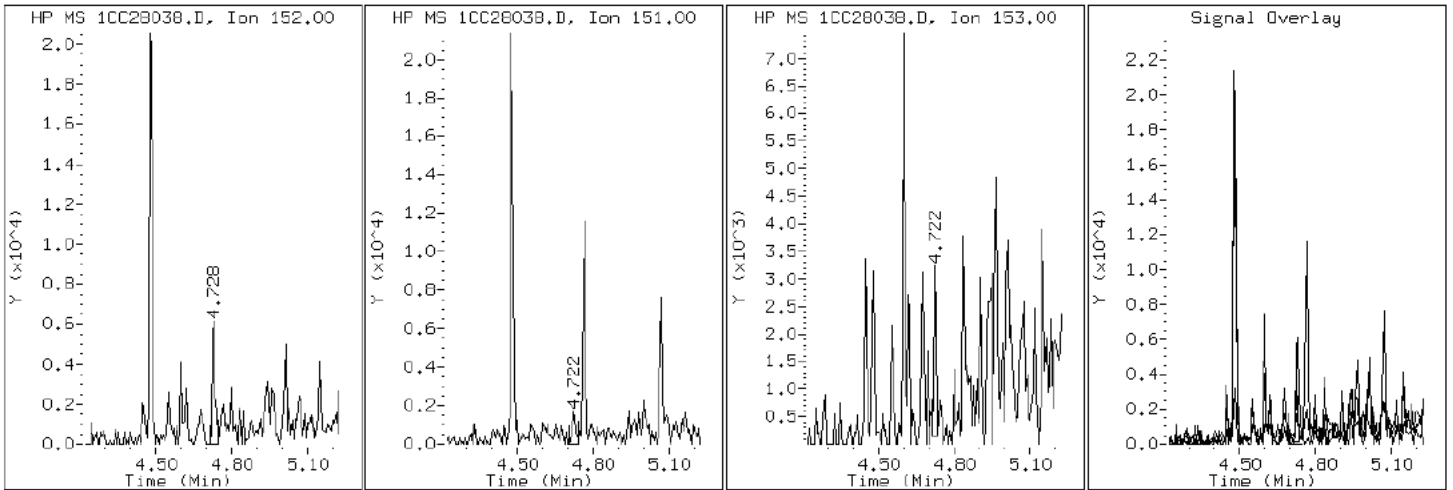
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

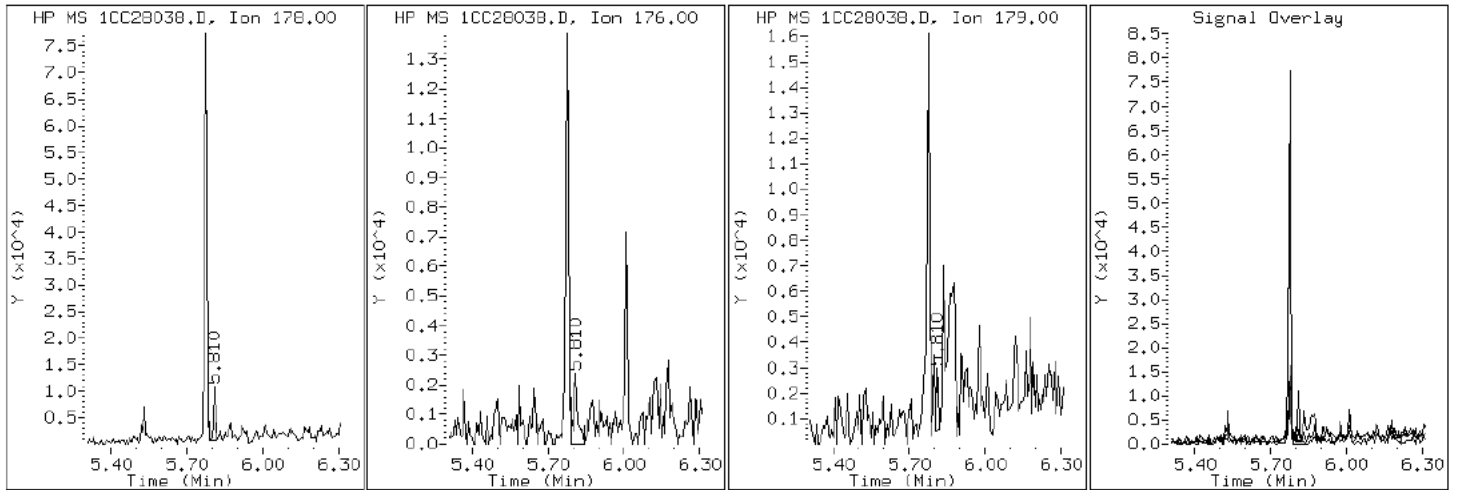
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

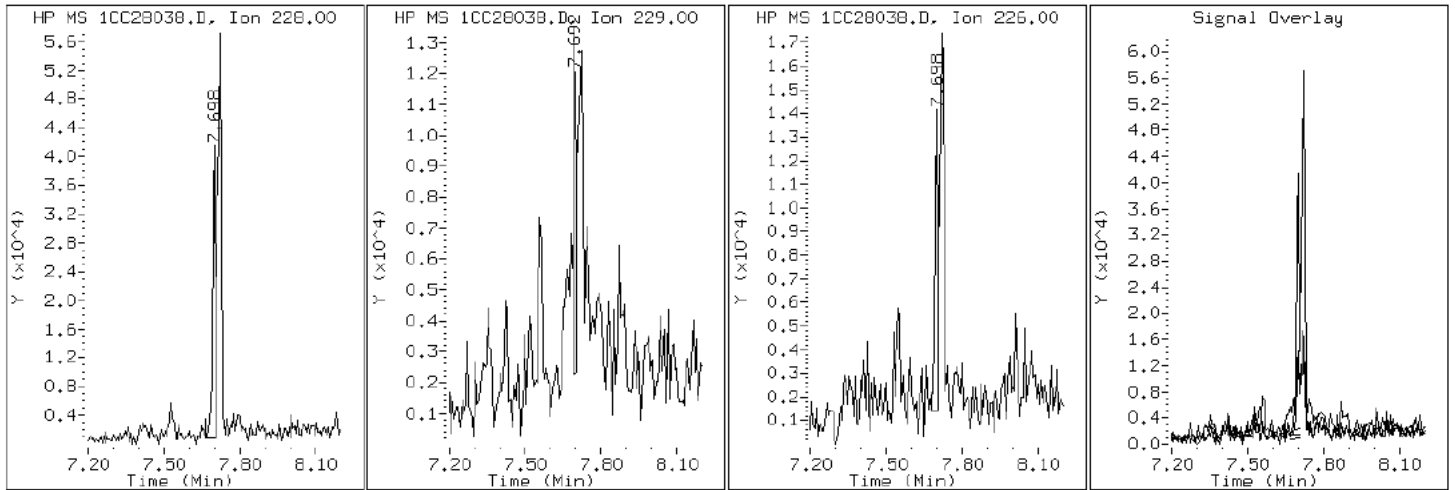
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

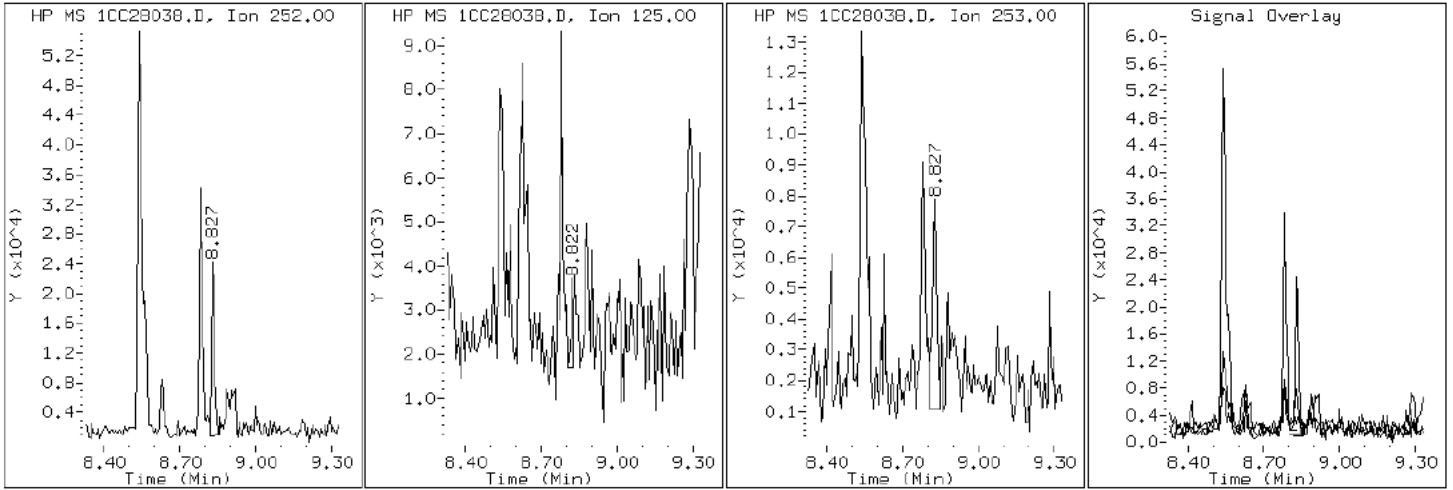
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

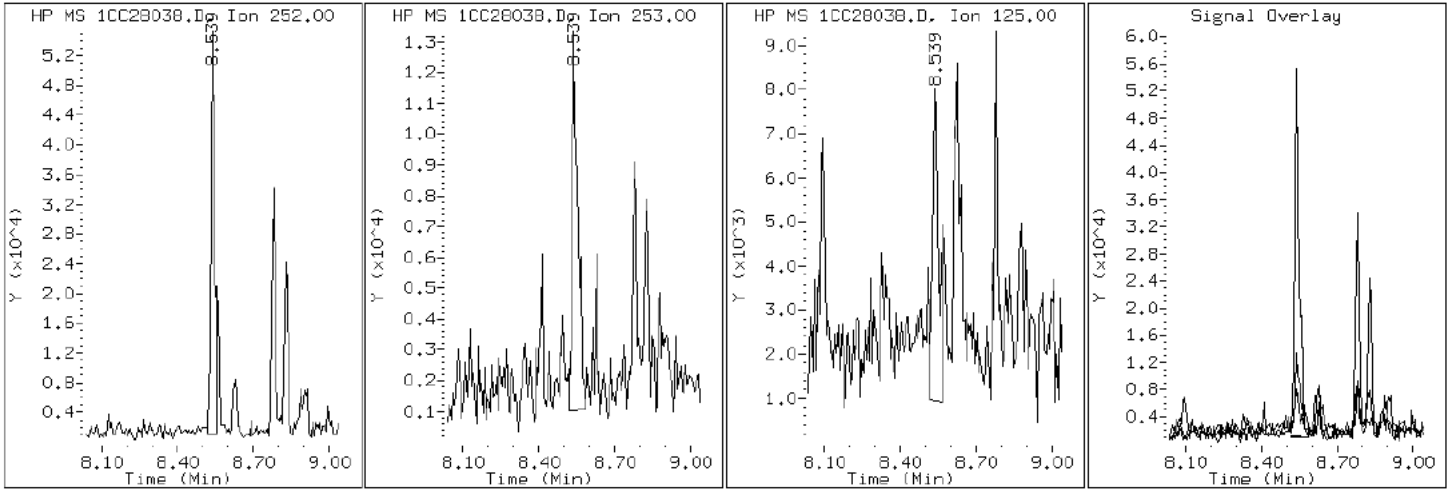
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene





Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

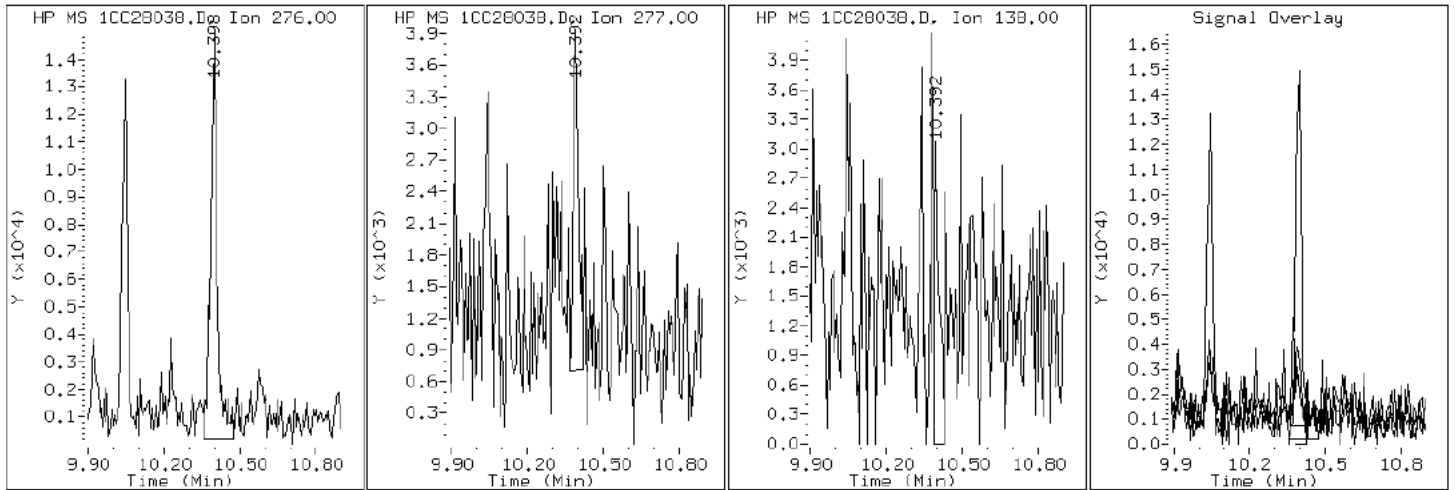
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

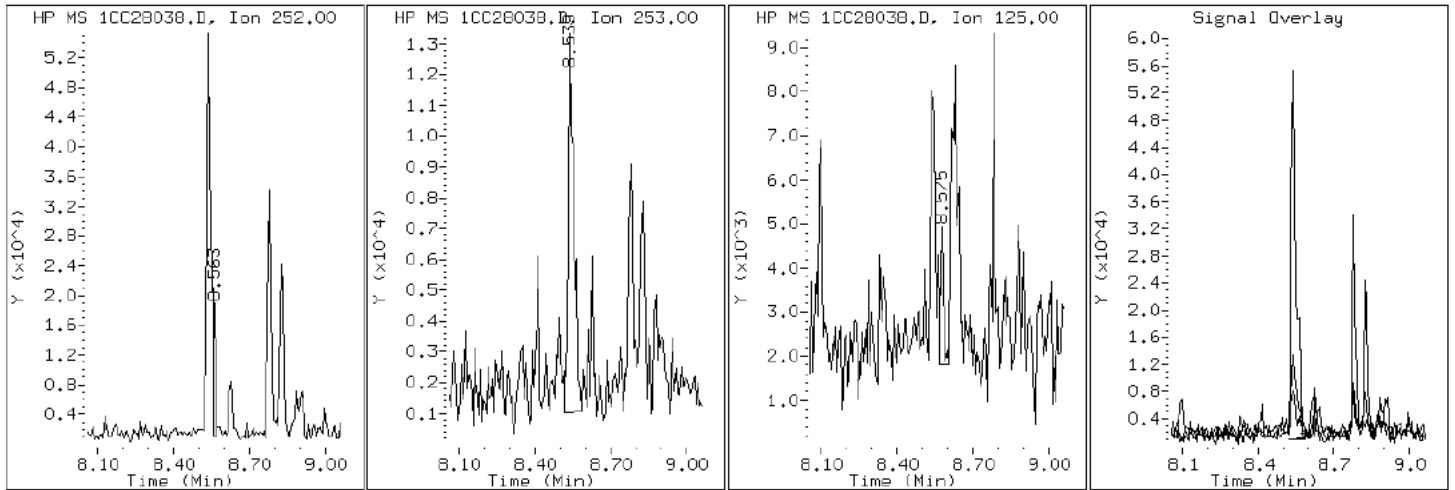
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

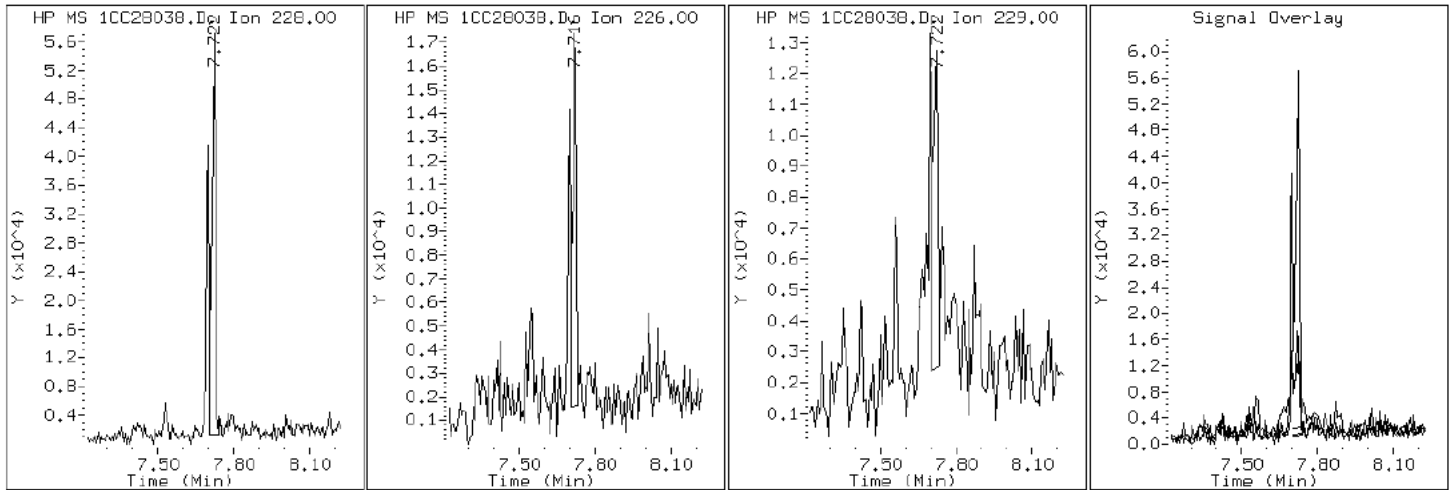
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

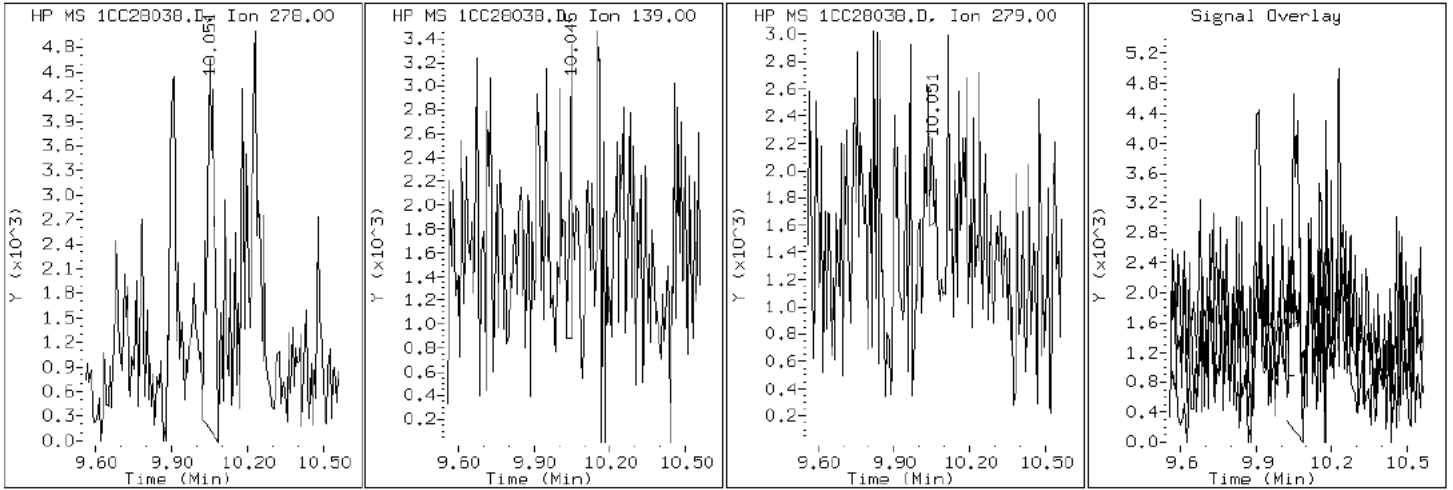
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

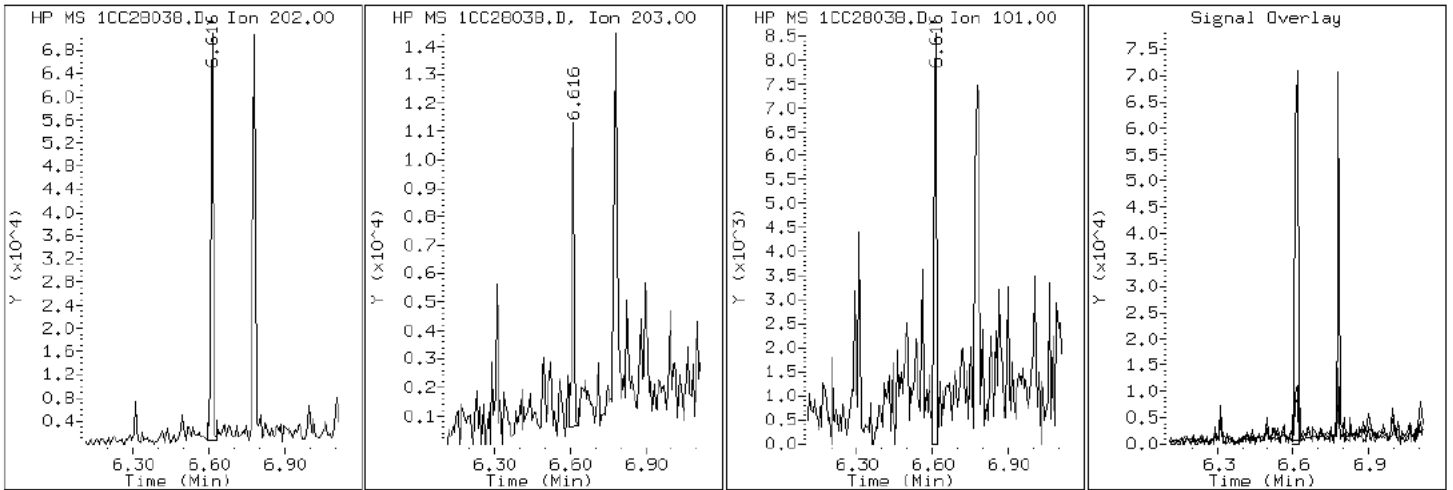
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

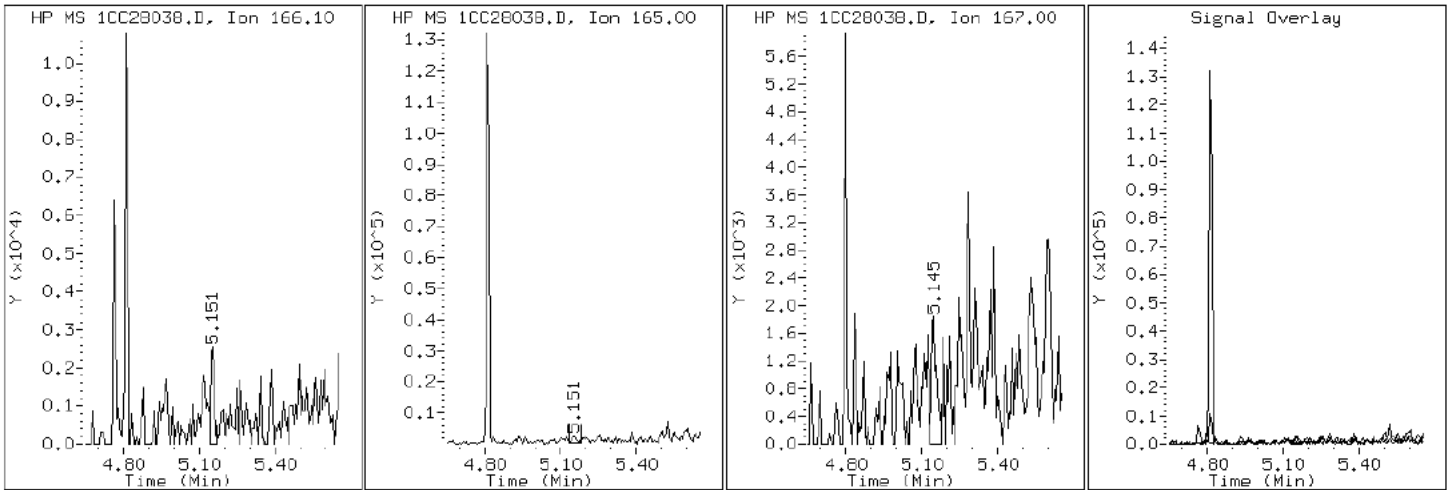
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

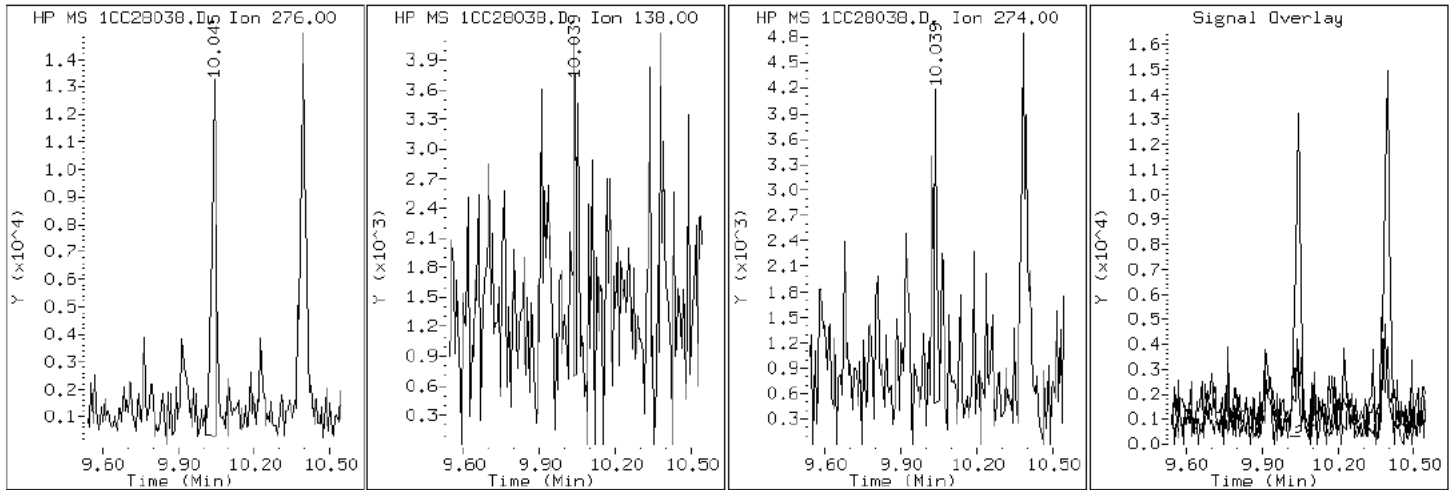
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

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



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

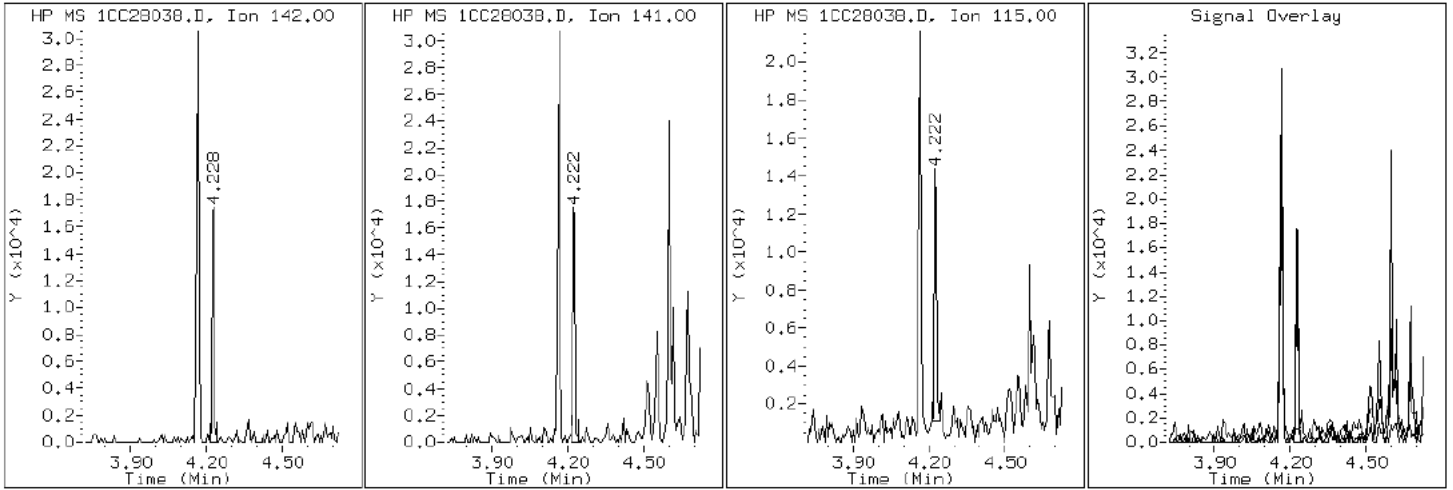
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

4 1-Methylnaphthalene





Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

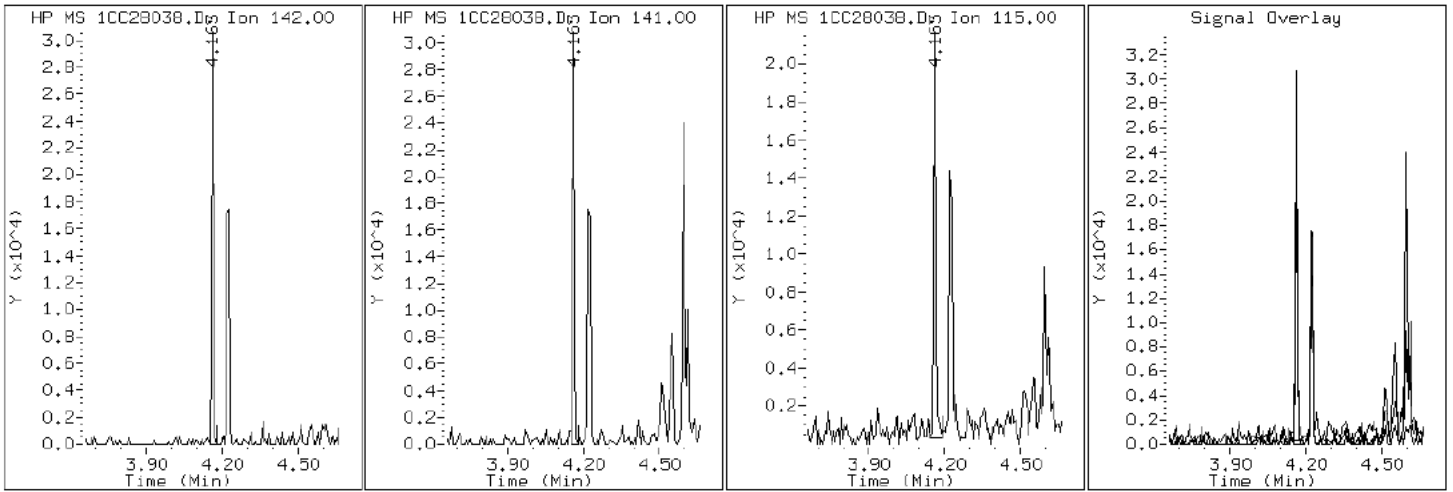
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

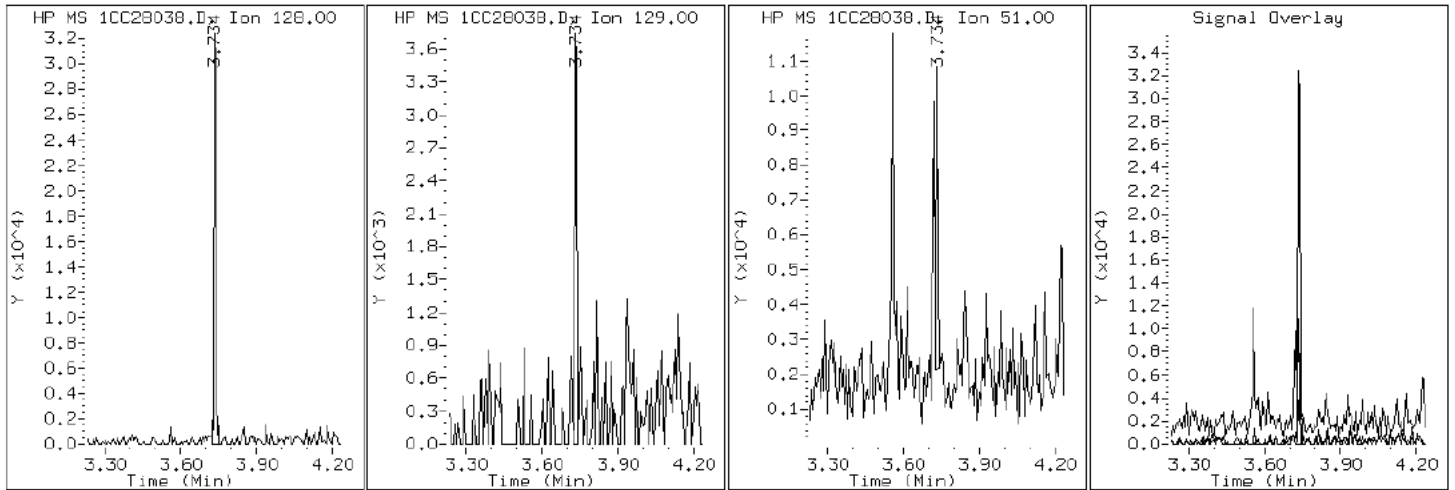
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

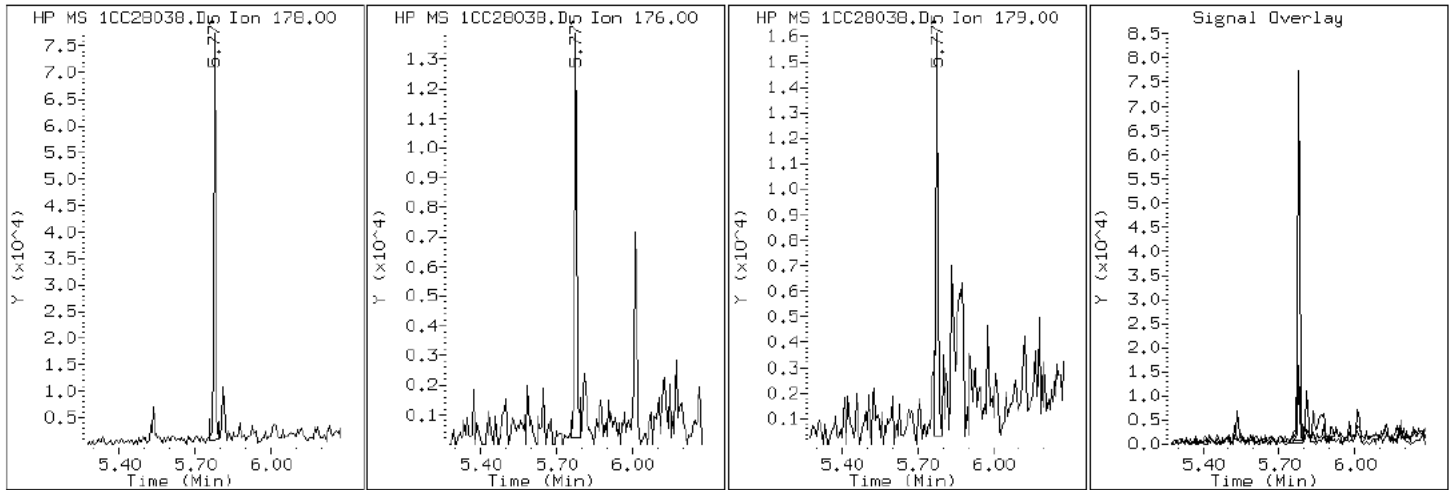
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28038.D

Date: 28-MAR-2013 22:42

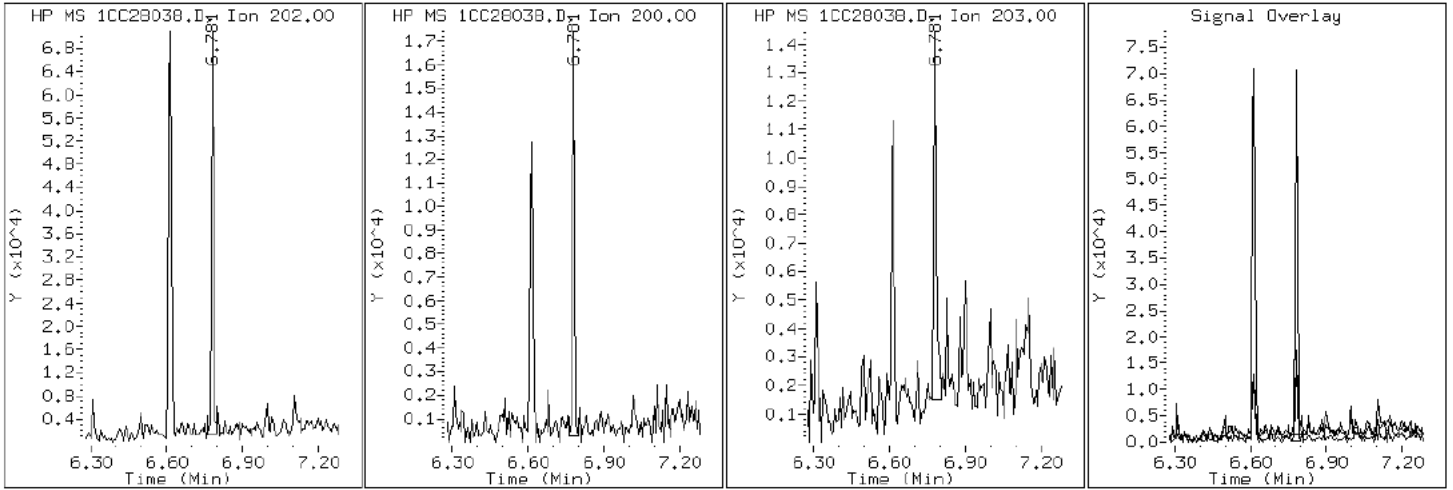
Client ID: CV0443B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88632-a-20-a

Operator: SCC

16 Pyrene

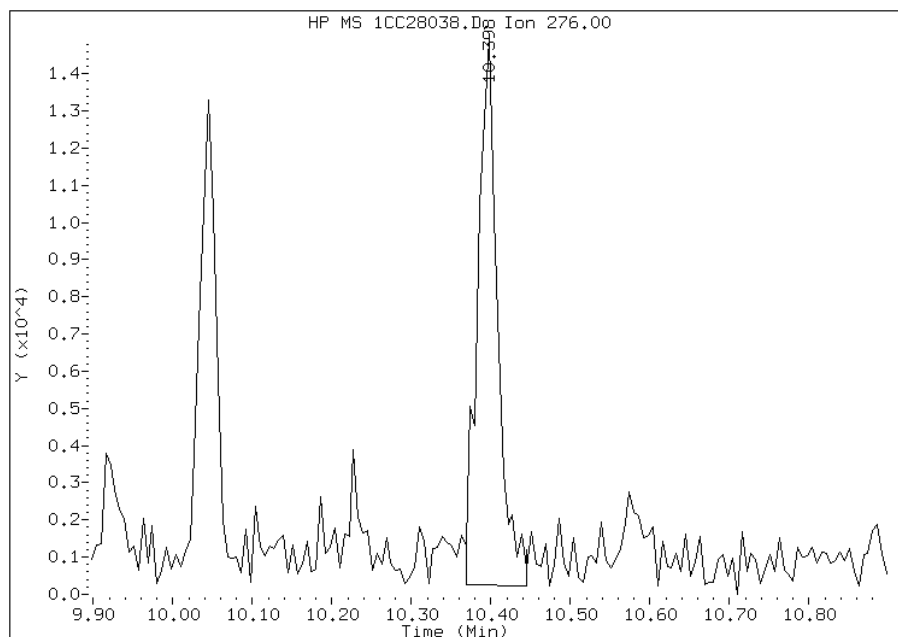


# Manual Integration Report

Data File: 1CC28038.D  
Inj. Date and Time: 28-MAR-2013 22:42  
Instrument ID: BSMC5973.i  
Client ID: CV0443B-CS-SP  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 04/02/2013

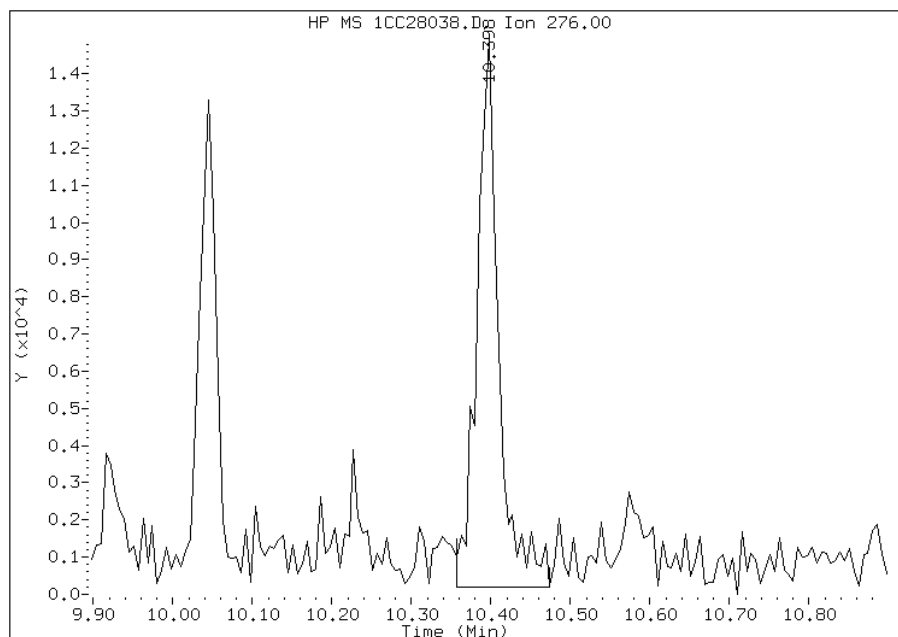
## Processing Integration Results

RT: 10.40  
Response: 25827  
Amount: 1  
Conc: 73



## Manual Integration Results

RT: 10.40  
Response: 28115  
Amount: 1  
Conc: 80



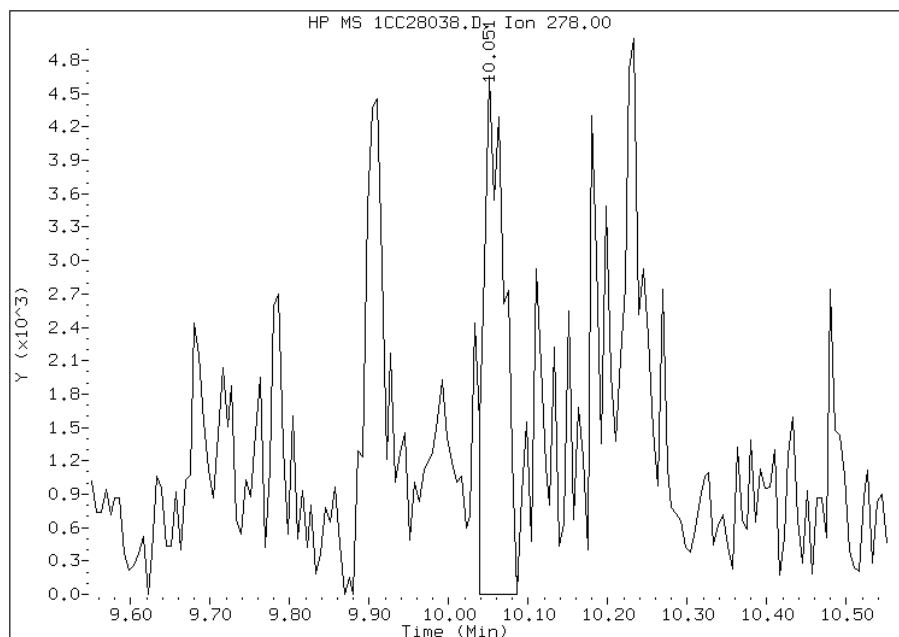
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:20  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28038.D  
Inj. Date and Time: 28-MAR-2013 22:42  
Instrument ID: BSMC5973.i  
Client ID: CV0443B-CS-SP  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 04/02/2013

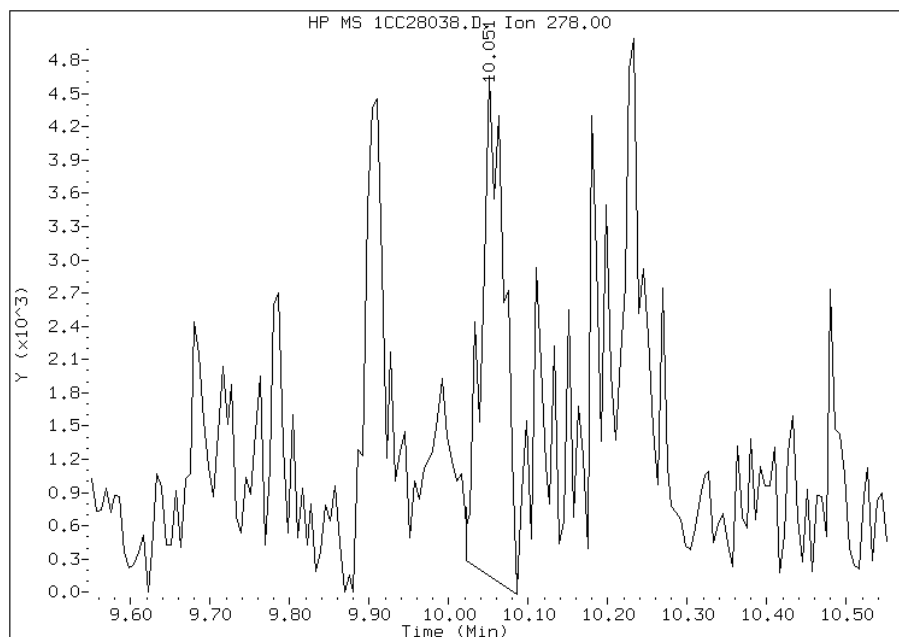
## Processing Integration Results

RT: 10.05  
Response: 8315  
Amount: 0  
Conc: 25



## Manual Integration Results

RT: 10.05  
Response: 9062  
Amount: 0  
Conc: 28



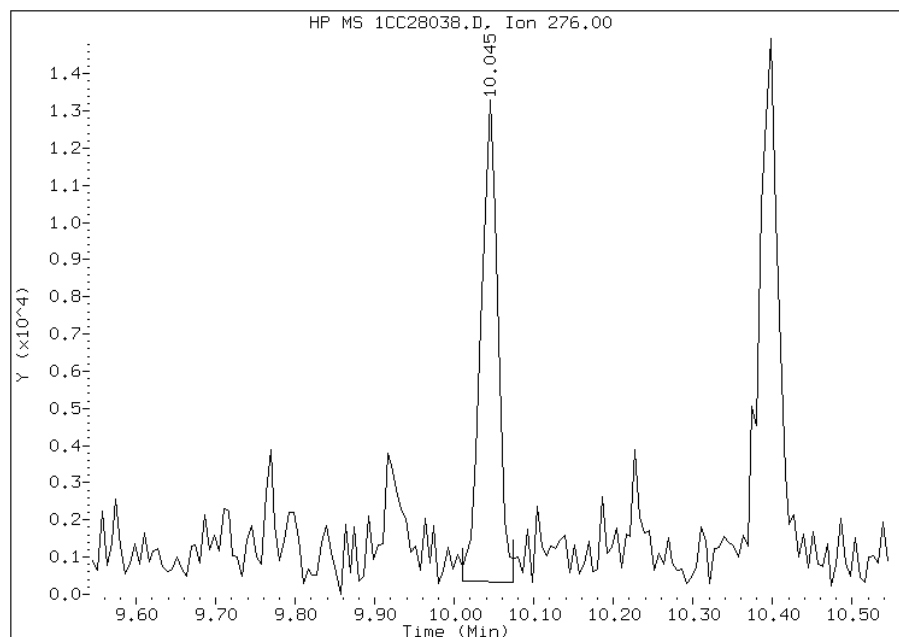
Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:20  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1CC28038.D  
Inj. Date and Time: 28-MAR-2013 22:42  
Instrument ID: BSMC5973.i  
Client ID: CV0443B-CS-SP  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

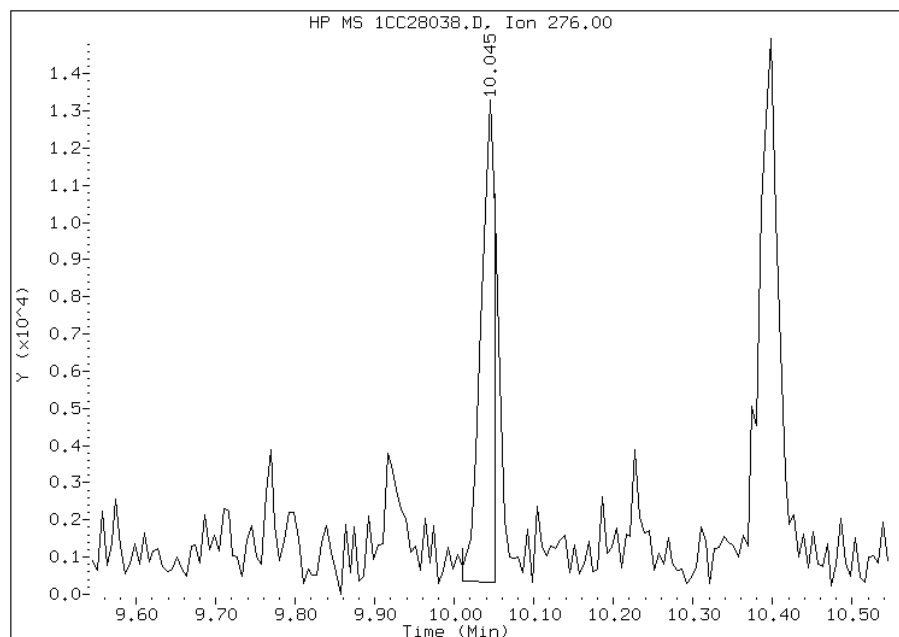
## Processing Integration Results

RT: 10.05  
Response: 19078  
Amount: 1  
Conc: 57



## Manual Integration Results

RT: 10.05  
Response: 16083  
Amount: 1  
Conc: 48



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 12:20  
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy Batch No.: 134776

SDG No.: 68088632-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7		15.0			
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0		15.0			
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5		15.0			
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0		15.0			
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5		15.0			
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9		15.0			
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2		15.0			
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7		15.0			
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1		15.0			
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0		15.0			
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3		15.0			
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3		15.0			
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.



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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy Batch No.: 134776

SDG No.: 68088632-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2	15.0				
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7	15.0				
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5	15.0				
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3	15.0				
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9	15.0				
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy B

SDG No.: 68088632-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1 50
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1 50
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1 50
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1 50
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1 50
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1 50
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1 50
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1 50
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD

134776

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N

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2760

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LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D  
 Lab Smp Id: IC-1512358  
 Inj Date : 22-FEB-2013 11:57  
 Operator : SCC  
 Smp Info : IC-1512358  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 3 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

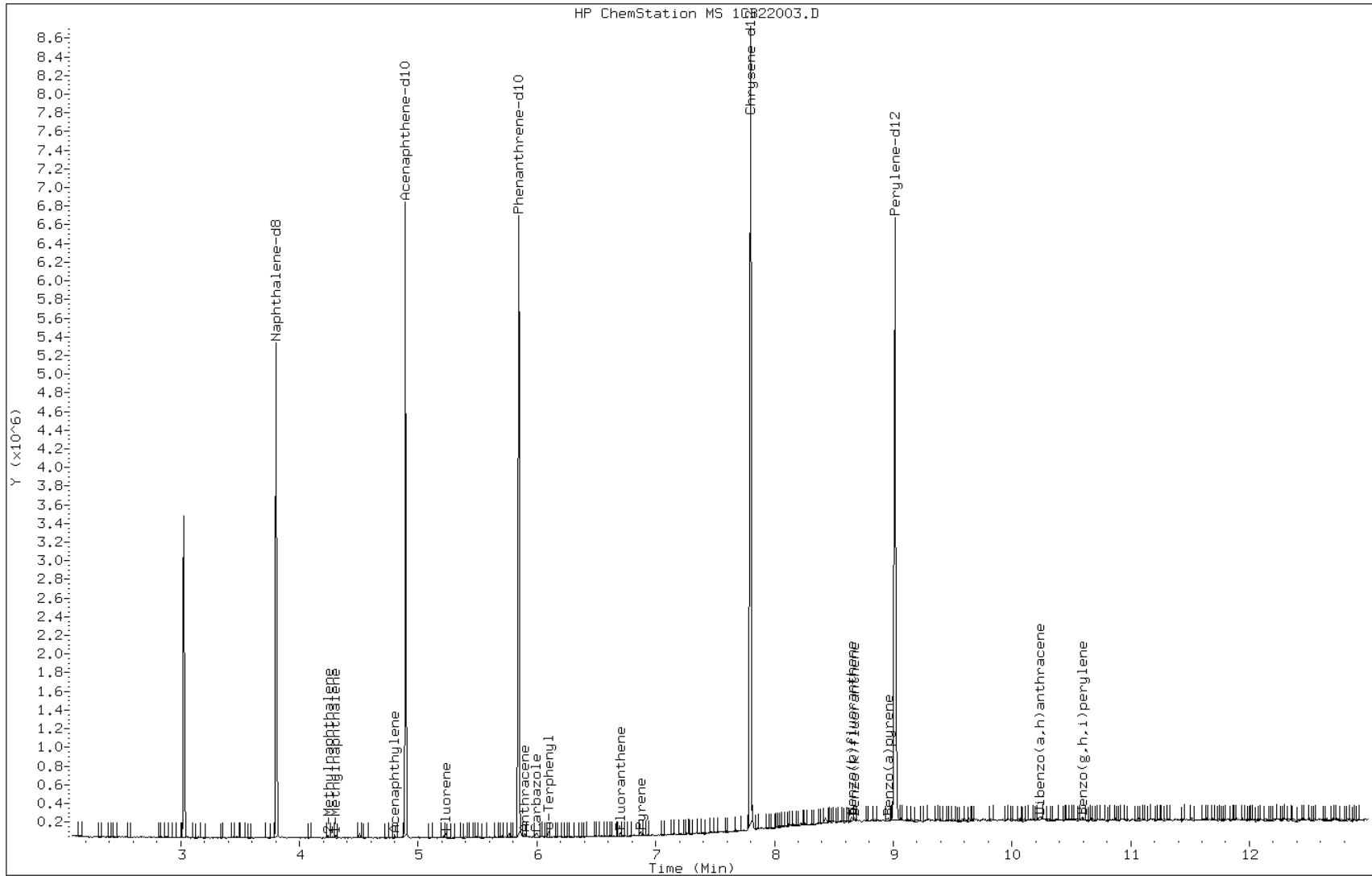
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

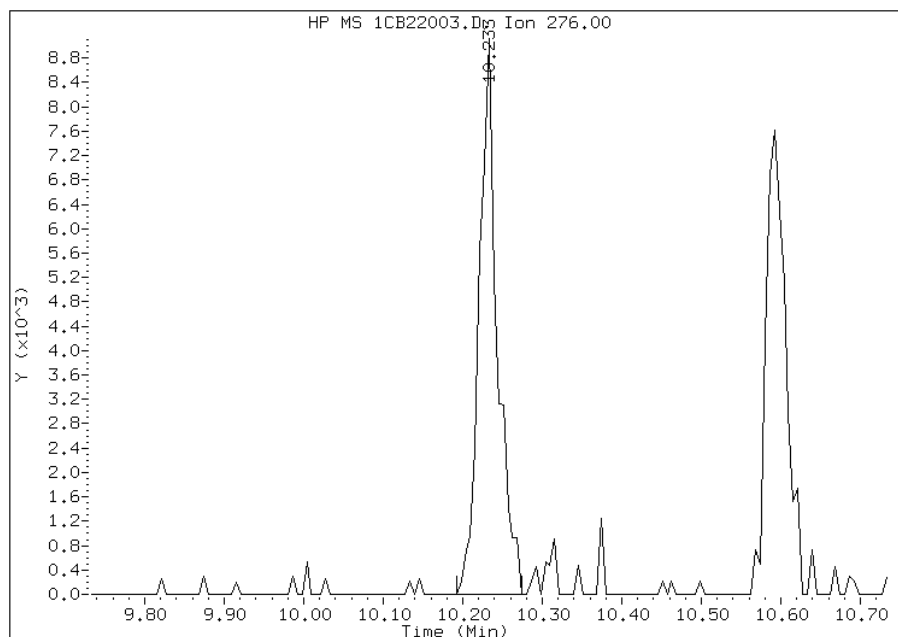


# Manual Integration Report

Data File: 1CB22003.D  
Inj. Date and Time: 22-FEB-2013 11:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

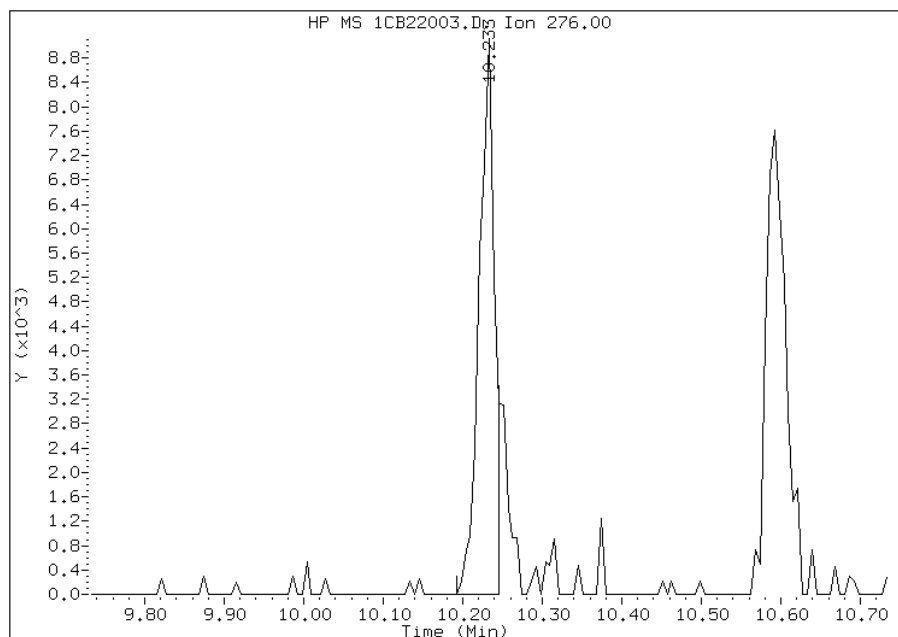
## Processing Integration Results

RT: 10.23  
Response: 14380  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.23  
Response: 12119  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:13  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:16  
 Operator : SCC  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

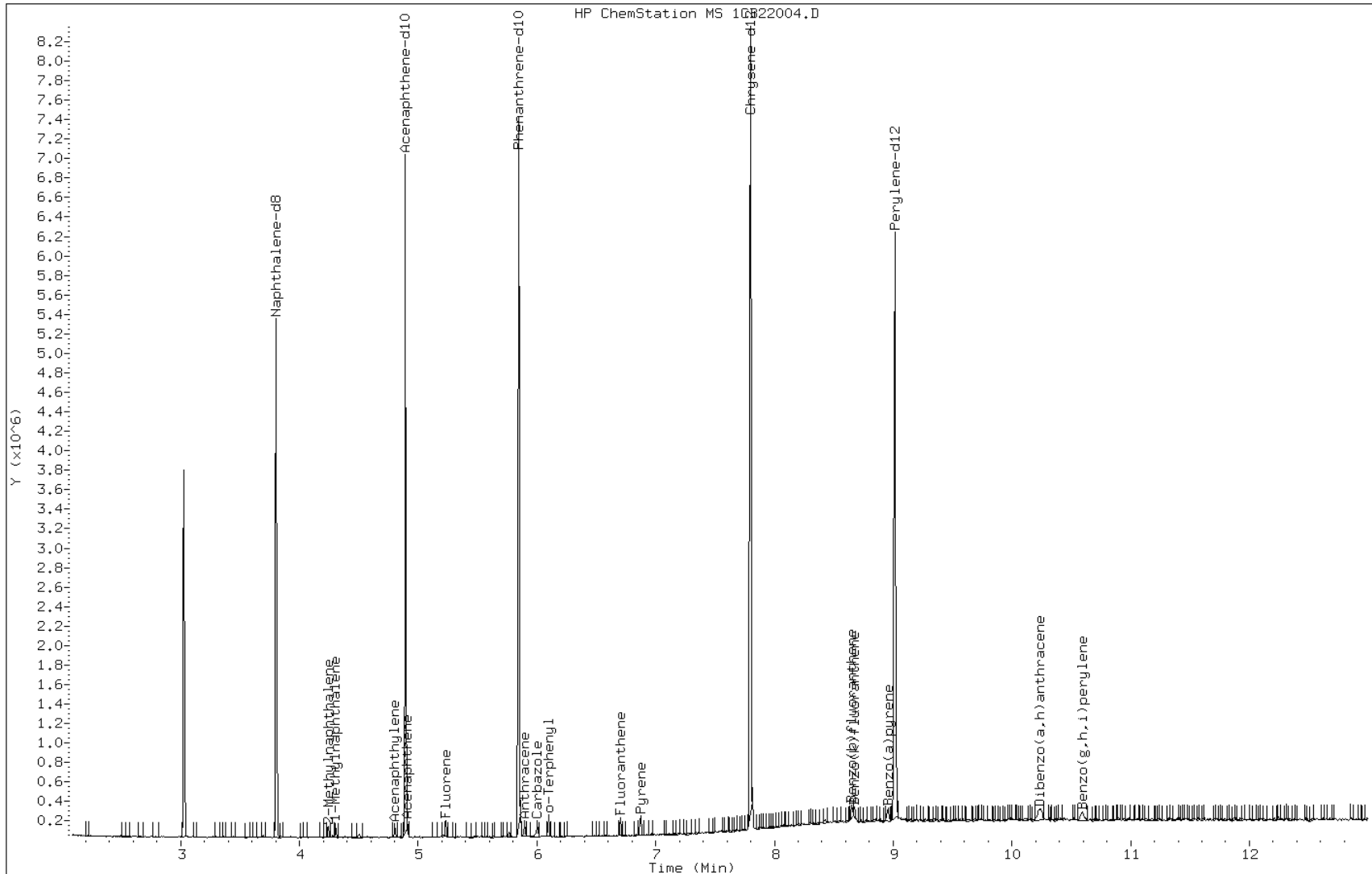
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC



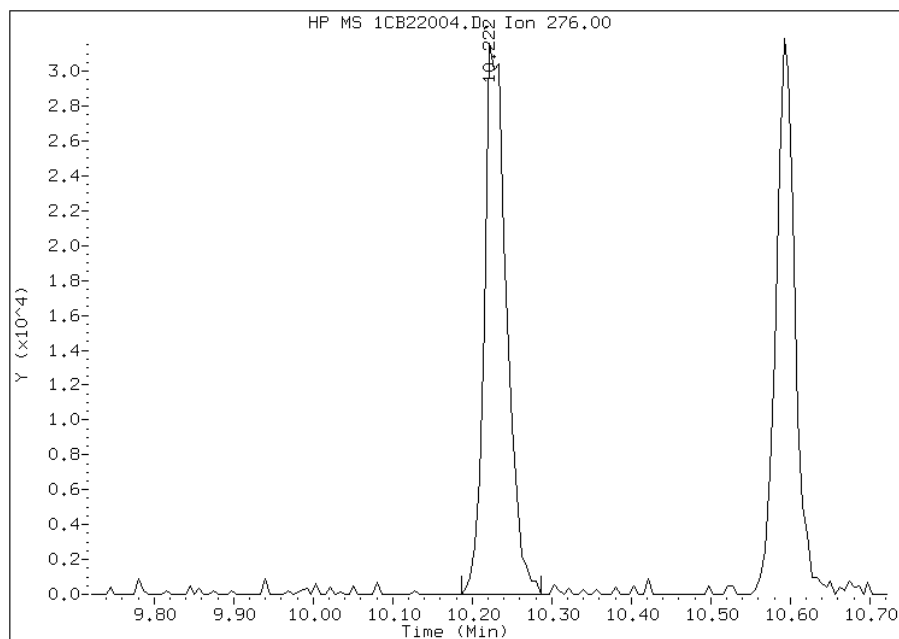


# Manual Integration Report

Data File: 1CB22004.D  
Inj. Date and Time: 22-FEB-2013 12:16  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

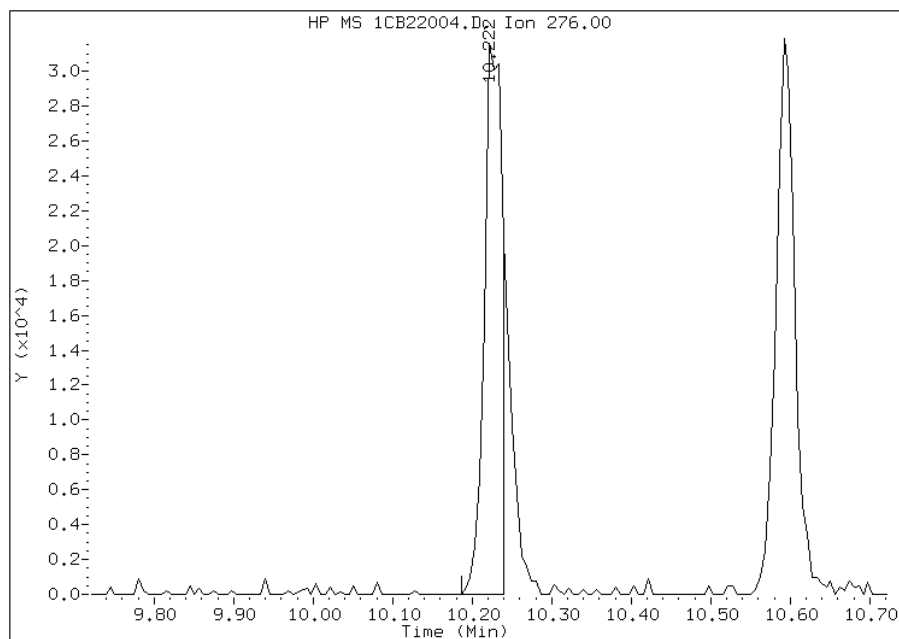
## Processing Integration Results

RT: 10.22  
Response: 61246  
Amount: 1  
Conc: 1



## Manual Integration Results

RT: 10.22  
Response: 48940  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 22-FEB-2013 12:34  
 Operator : SCC  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

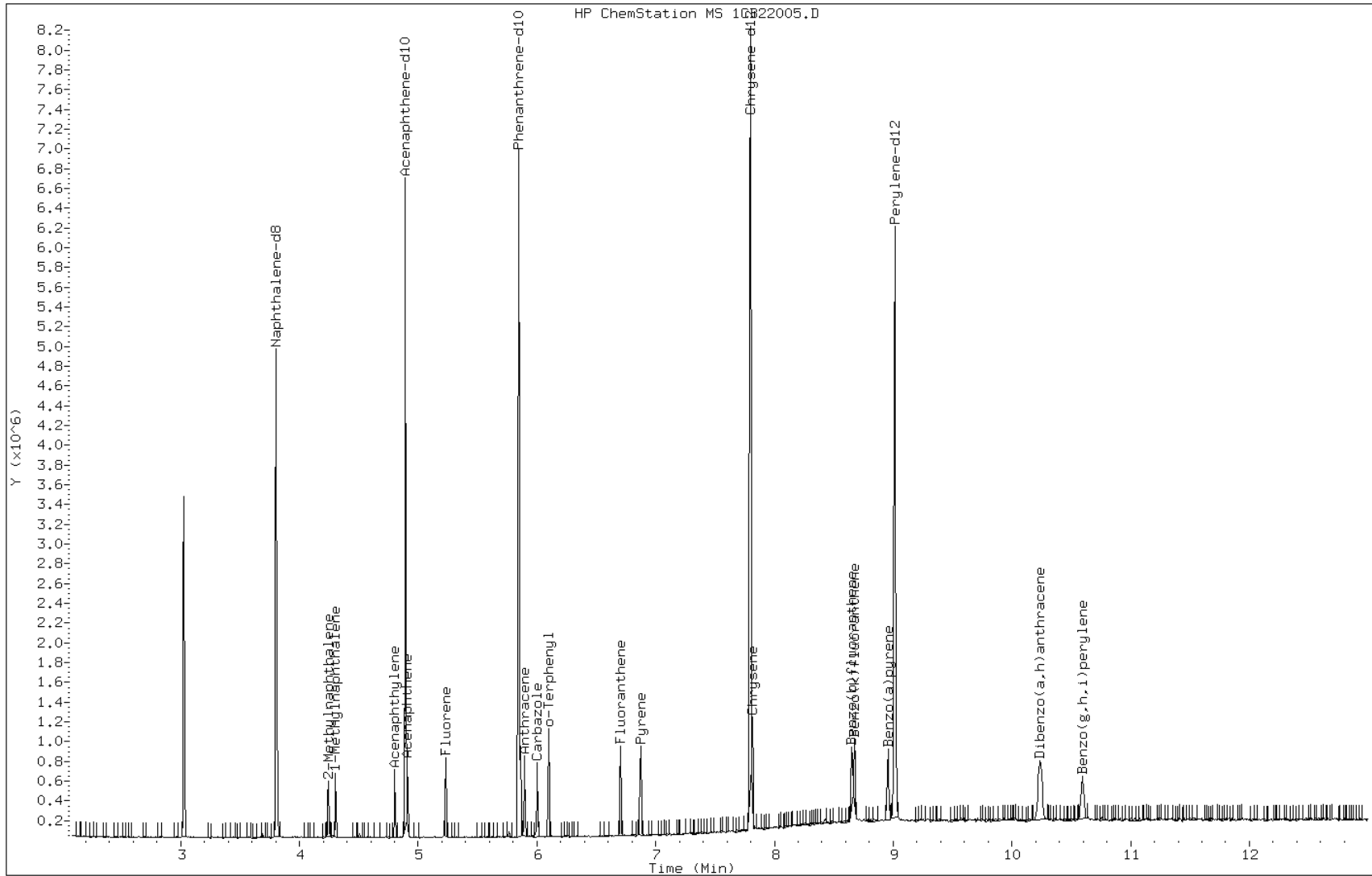
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

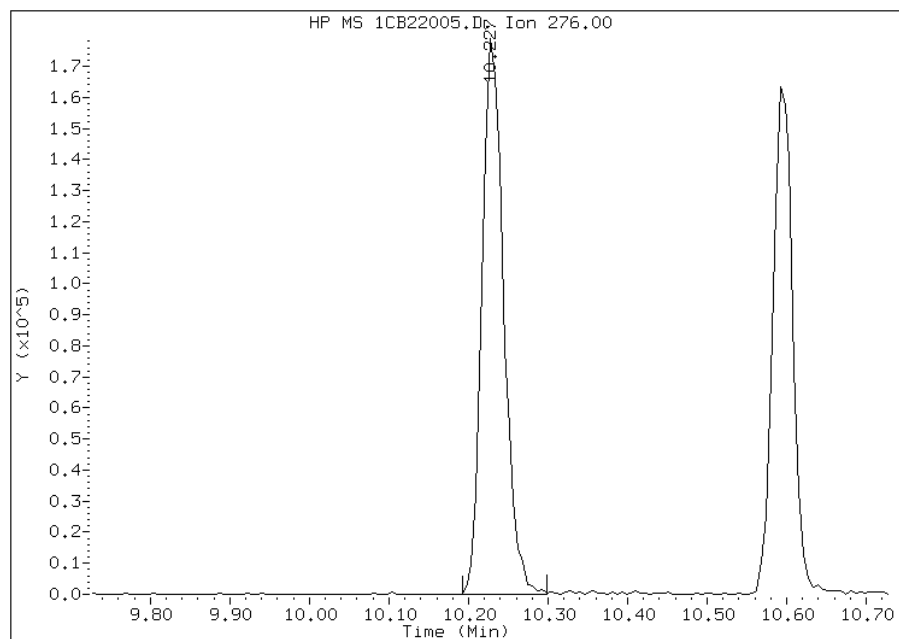


# Manual Integration Report

Data File: 1CB22005.D  
Inj. Date and Time: 22-FEB-2013 12:34  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

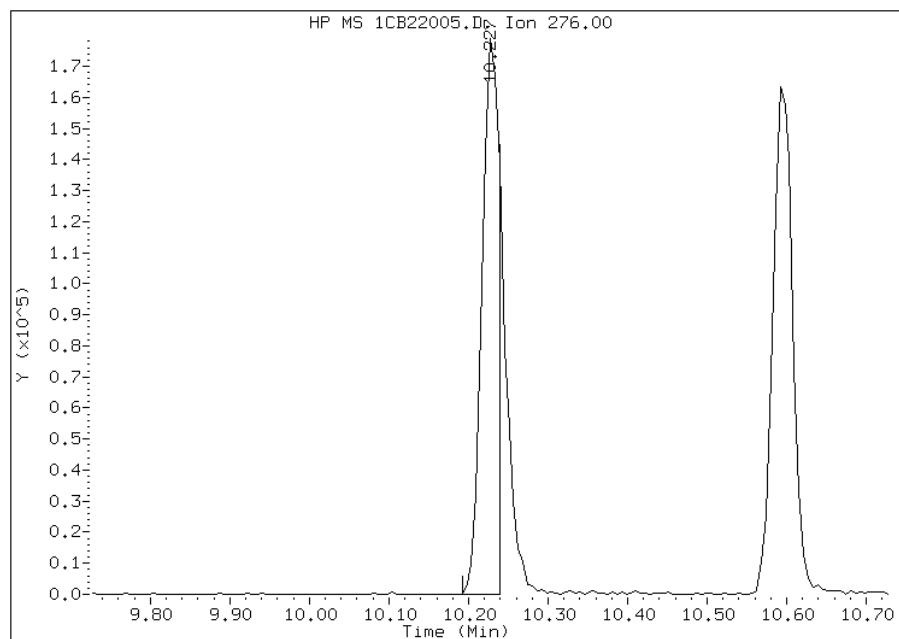
## Processing Integration Results

RT: 10.23  
Response: 336913  
Amount: 6  
Conc: 6



## Manual Integration Results

RT: 10.23  
Response: 267436  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 22-FEB-2013 12:53  
 Operator : SCC  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

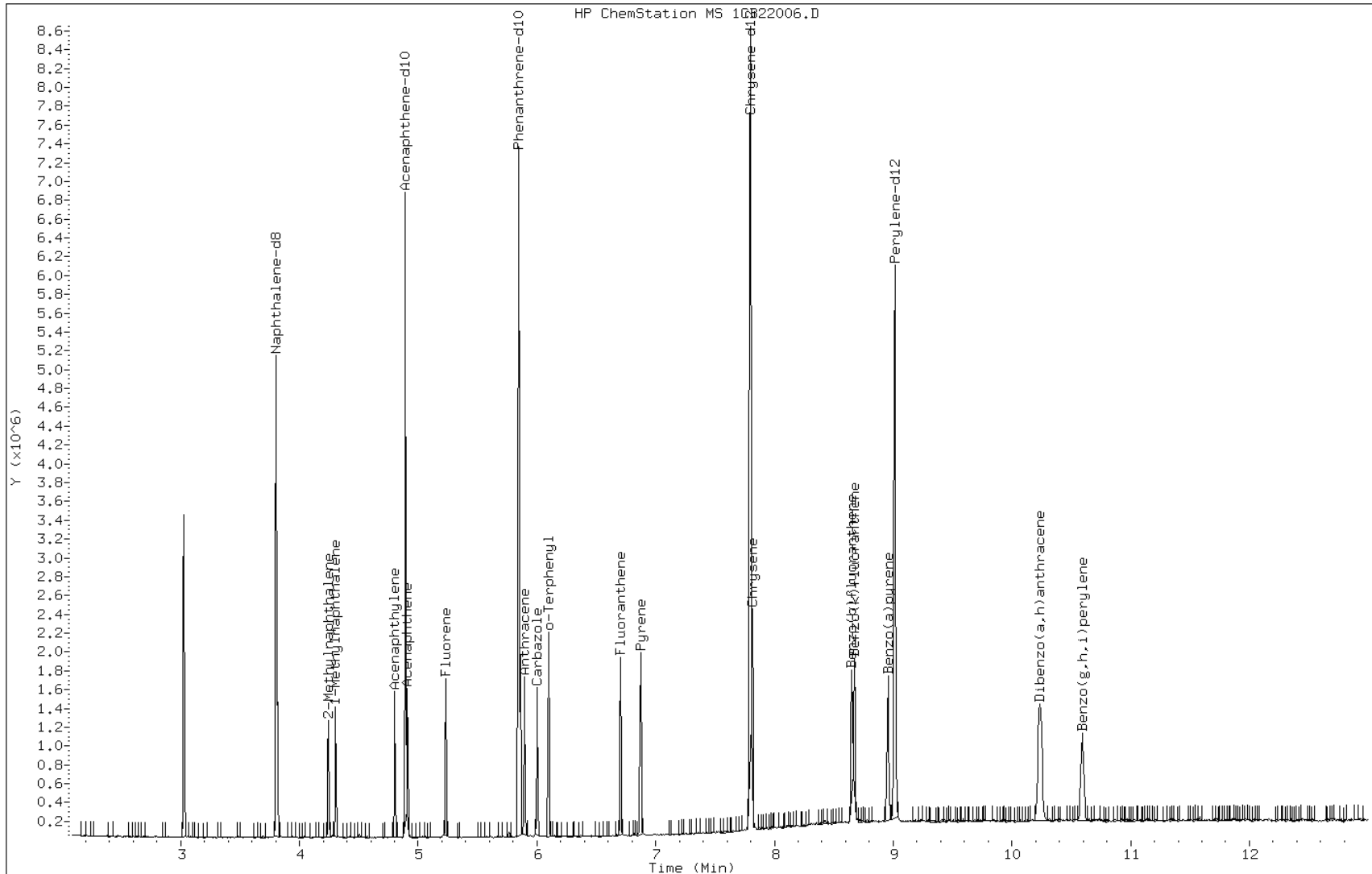
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

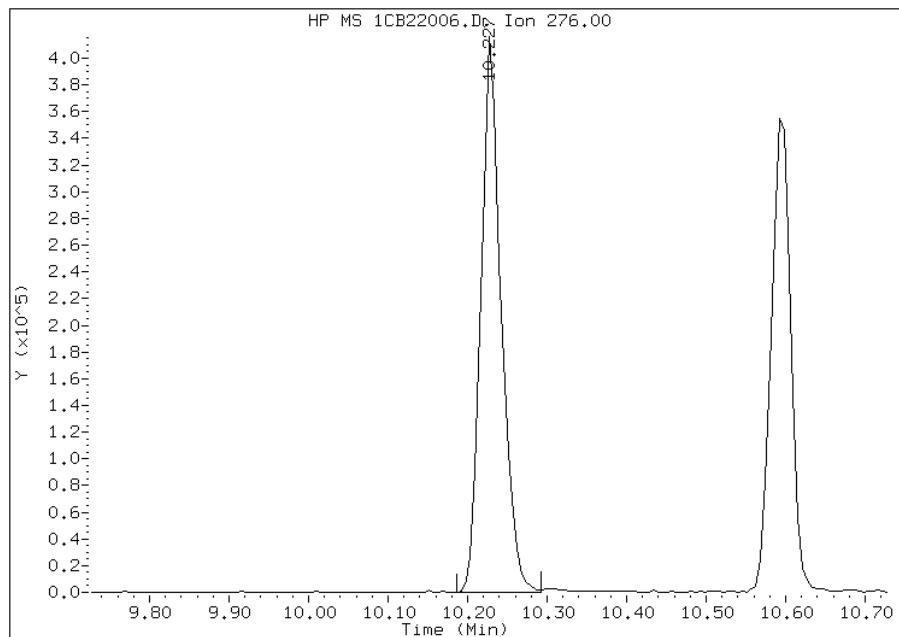


# Manual Integration Report

Data File: 1CB22006.D  
Inj. Date and Time: 22-FEB-2013 12:53  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

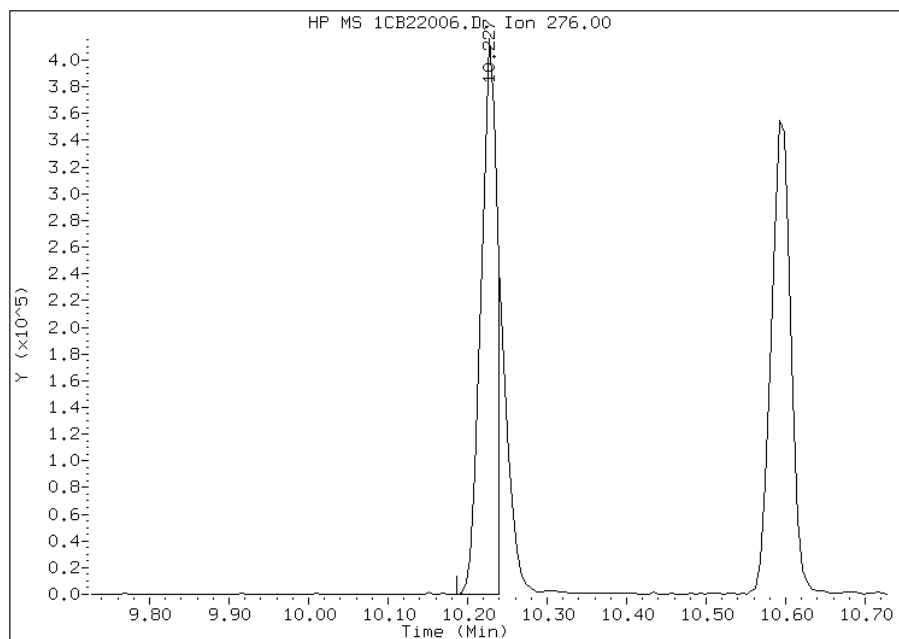
## Processing Integration Results

RT: 10.23  
Response: 727358  
Amount: 13  
Conc: 13



## Manual Integration Results

RT: 10.23  
Response: 582935  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:14  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D  
 Lab Smp Id: ICIS-1512372  
 Inj Date : 22-FEB-2013 13:11  
 Operator : SCC  
 Smp Info : ICIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.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/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.



Data File: 1CB22007.D

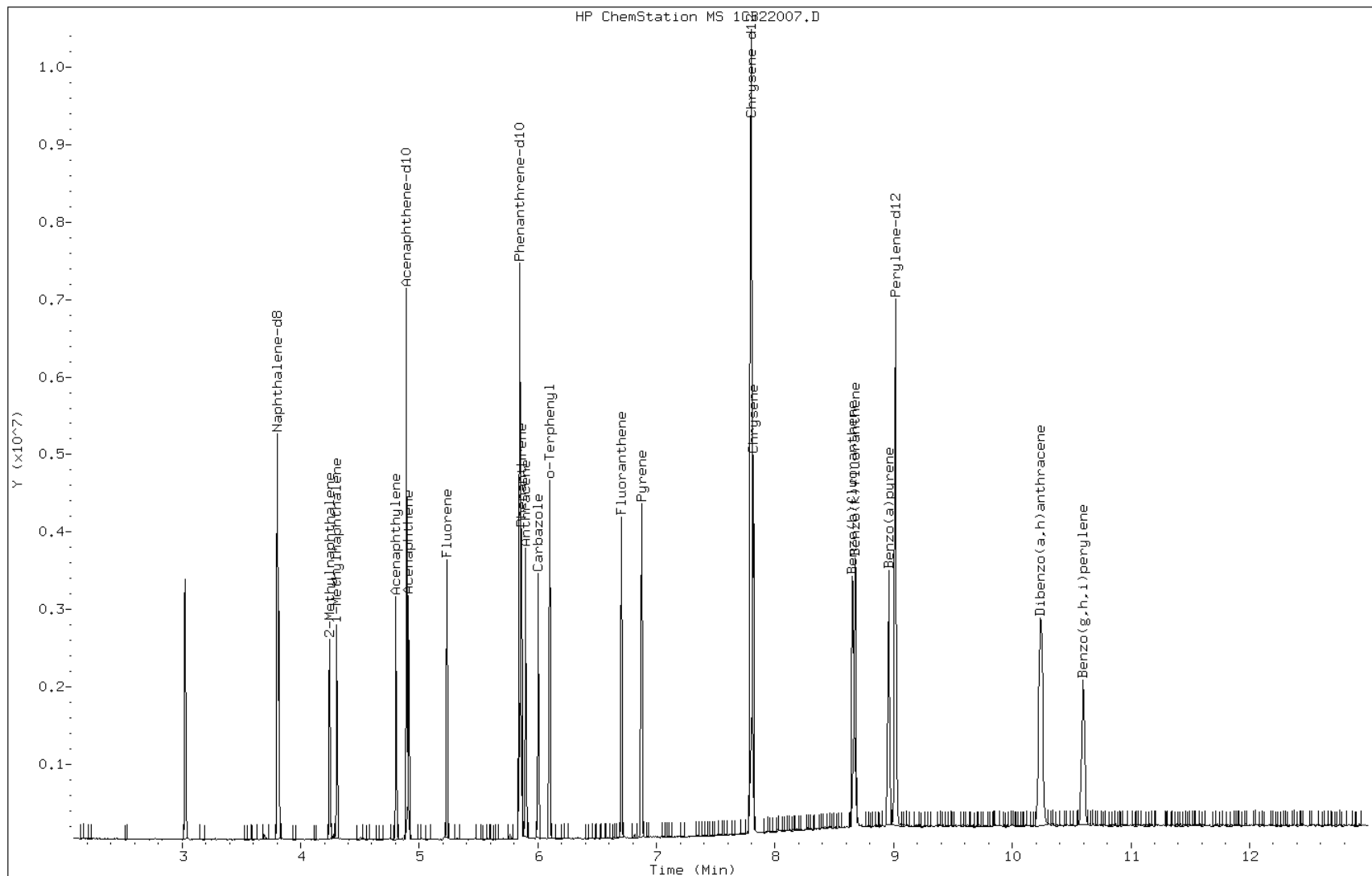
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

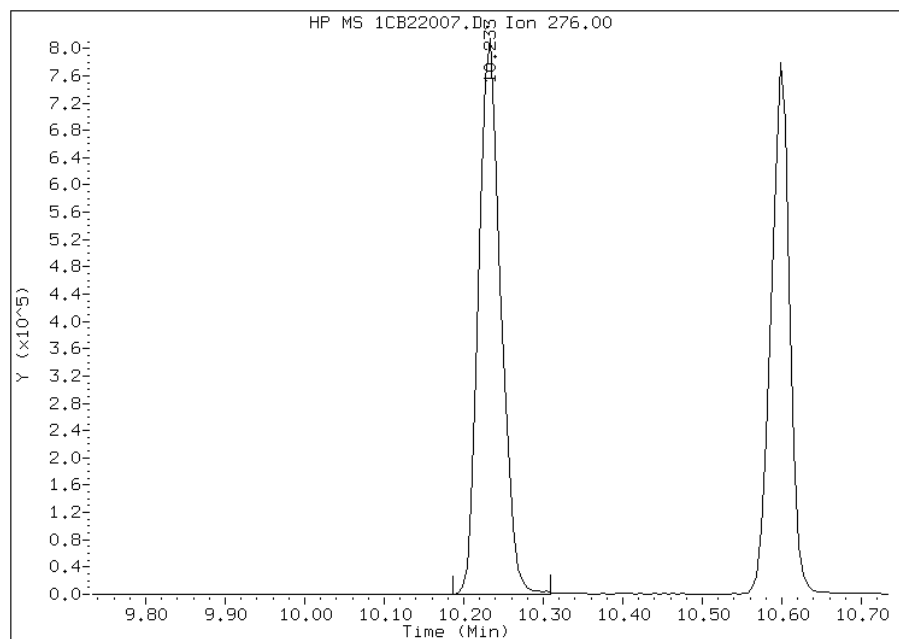


# Manual Integration Report

Data File: 1CB22007.D  
Inj. Date and Time: 22-FEB-2013 13:11  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

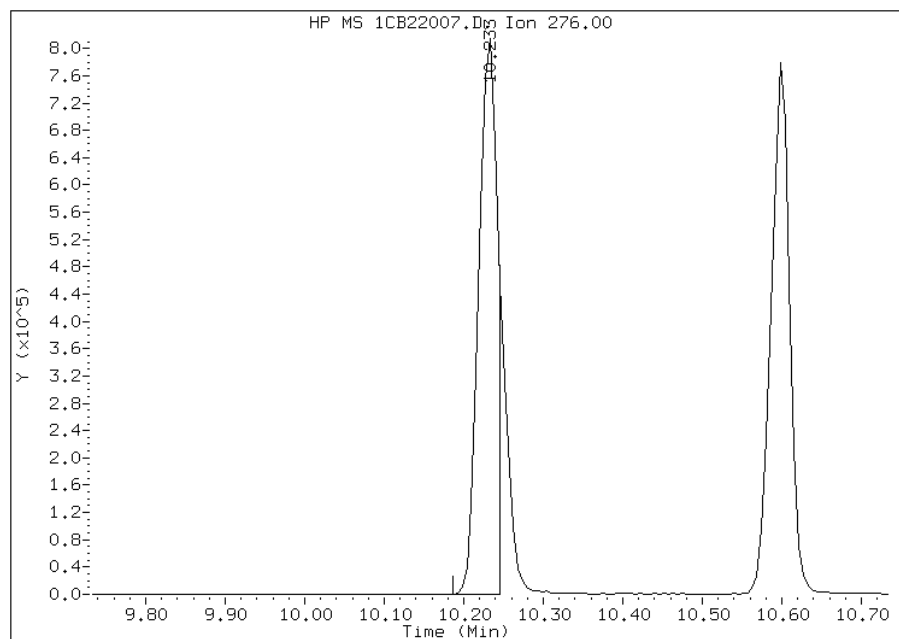
## Processing Integration Results

RT: 10.23  
Response: 1569498  
Amount: 25  
Conc: 25



## Manual Integration Results

RT: 10.23  
Response: 1327322  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:11  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 22-FEB-2013 13:29  
 Operator : SCC  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	1864829	40.0000	
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264		9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128		3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152		4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154		4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166		5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178		5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178		5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167		6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202		6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202		6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228		7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252		8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252		8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276		10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

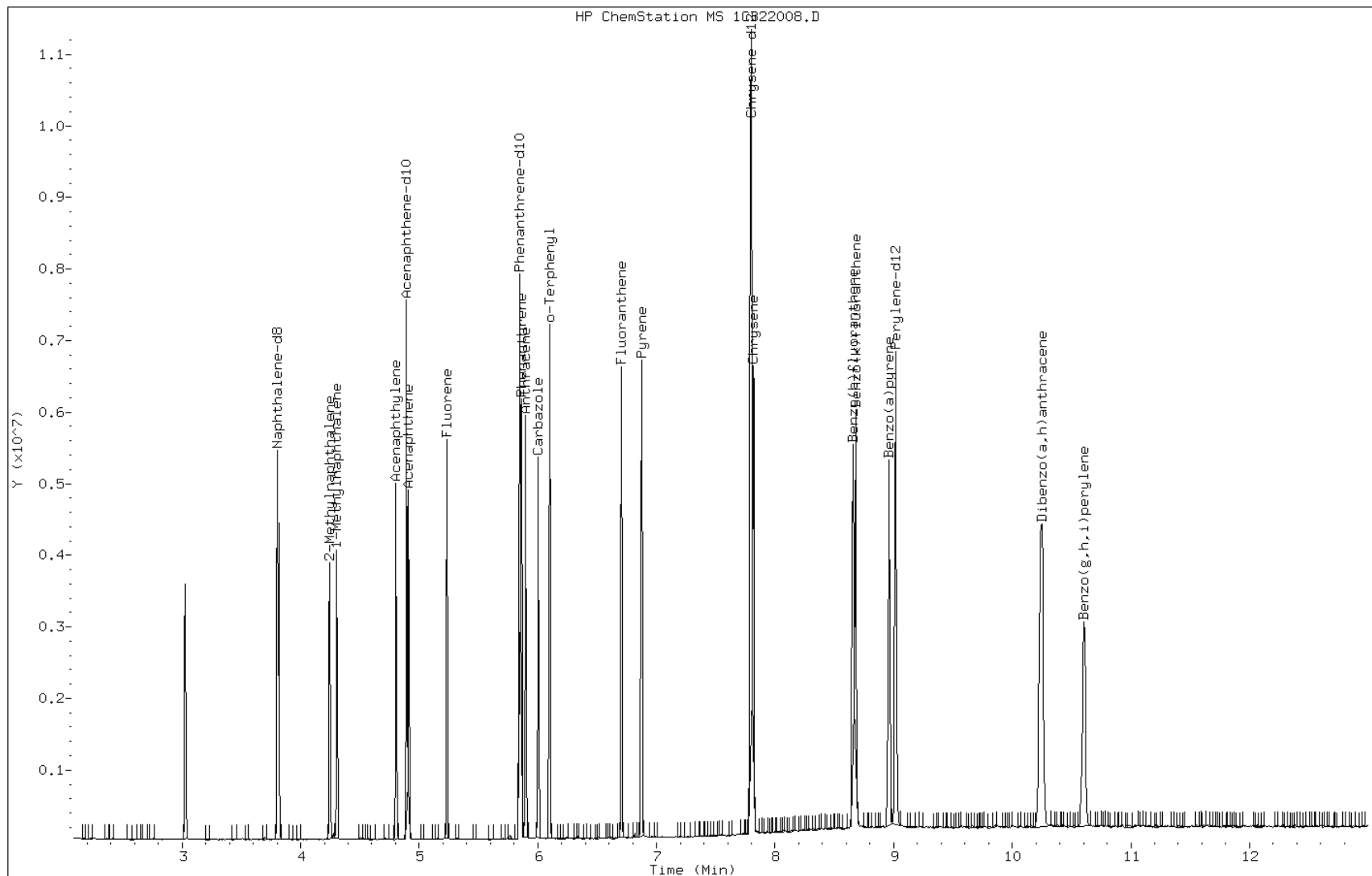
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

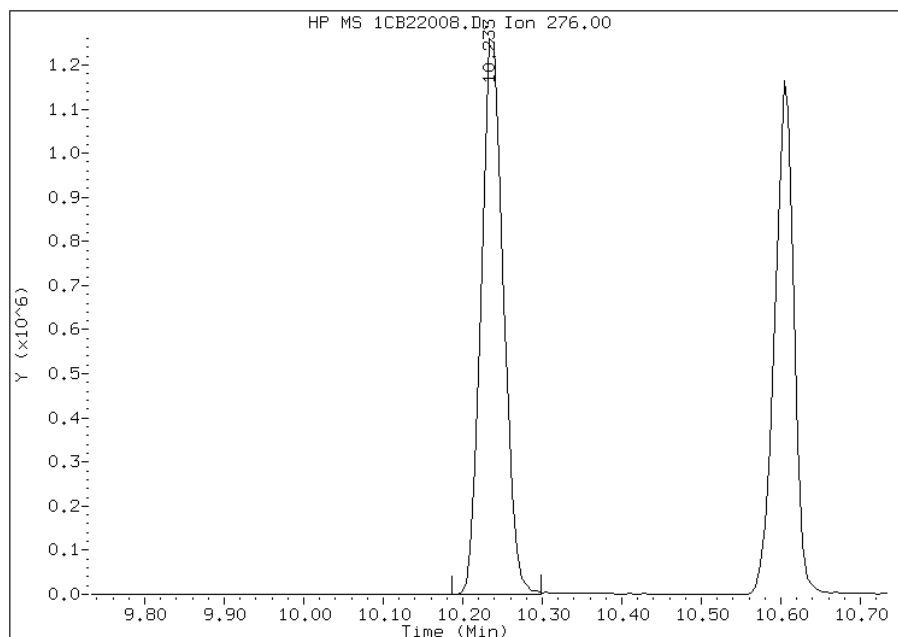


# Manual Integration Report

Data File: 1CB22008.D  
Inj. Date and Time: 22-FEB-2013 13:29  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

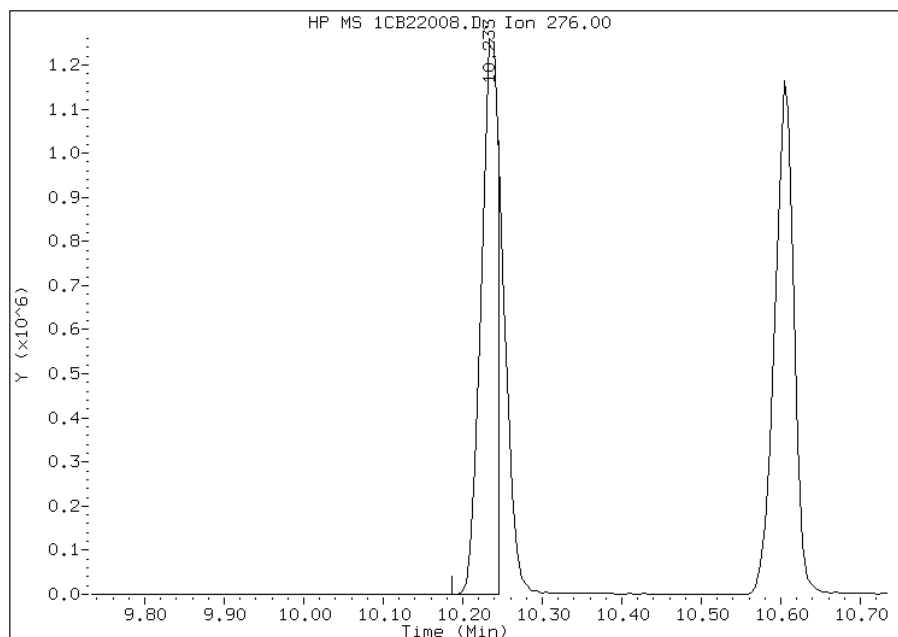
## Processing Integration Results

RT: 10.23  
Response: 2435528  
Amount: 36  
Conc: 36



## Manual Integration Results

RT: 10.23  
Response: 1907725  
Amount: 29  
Conc: 29



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 22-FEB-2013 13:48  
 Operator : SCC  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\A-BFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1341221	40.0000		
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	1022497	40.0000		
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1952764	40.0000		
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	1512079	50.0000	51.2857(A)	
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2476604	40.0000		
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2509650	40.0000		
2 Naphthalene	128	3.815	3.815	(1.003)	1788680	50.0000	51.2265(A)	
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	1170415	50.0000	50.2513(A)	
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	1106965	50.0000	52.1840(A)	
5 Acenaphthylene	152	4.804	4.804	(0.982)	2158422	50.0000	52.3585(A)	
7 Acenaphthene	154	4.910	4.910	(1.004)	1241216	50.0000	48.4415	
9 Fluorene	166	5.233	5.233	(1.070)	1689190	50.0000	52.1276(A)	
11 Phenanthrene	178	5.862	5.862	(1.003)	2774518	50.0000	49.1366	
12 Anthracene	178	5.898	5.898	(1.009)	2853457	50.0000	51.6717(A)	
13 Carbazole	167	6.004	6.004	(1.027)	2470847	50.0000	50.3338(A)	
15 Fluoranthene	202	6.704	6.704	(1.147)	3133704	50.0000	50.6773(A)	
16 Pyrene	202	6.874	6.874	(0.882)	3458322	50.0000	51.9617(A)	
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	3342573	50.0000	46.7626	
19 Chrysene	228	7.821	7.821	(1.003)	3423784	50.0000	47.8628	
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	3419972	50.0000	52.1444(A)	
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	3517880	50.0000	52.2859(A)	
22 Benzo(a)pyrene	252	8.962	8.962	(0.994)	3380087	50.0000	53.0576(A)	
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.239	(1.136)	3187834	50.0000	50.9008(AM)	
25 Dibenzo(a,h)anthracene	278	10.256	10.256	(1.138)	2995648	50.0000	51.1034(A)	
26 Benzo(g,h,i)perylene	276	10.609	10.609	(1.177)	3142464	50.0000	50.1261(A)	

QC Flag Legend

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

Data File: 1CB22009.D

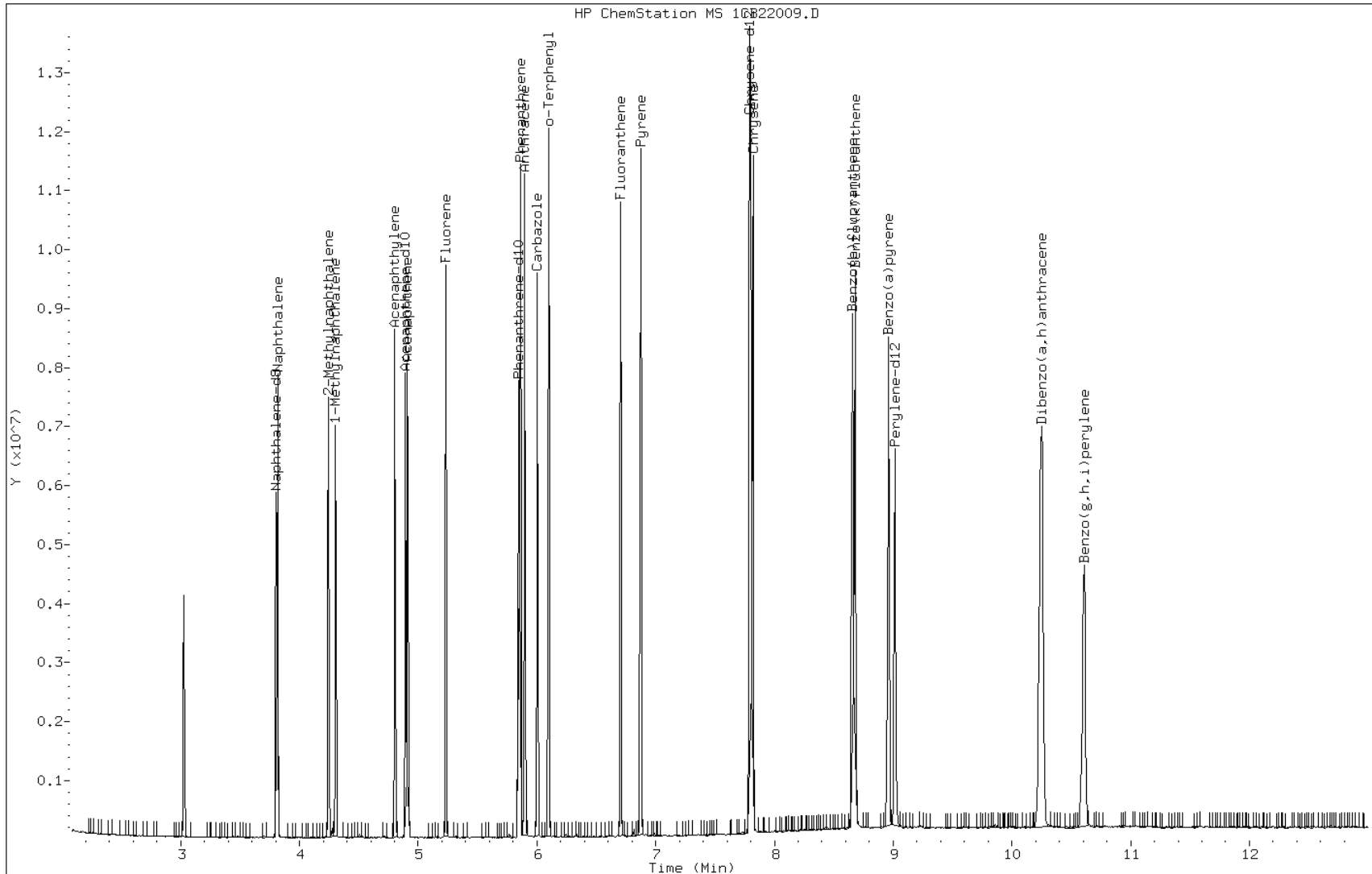
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

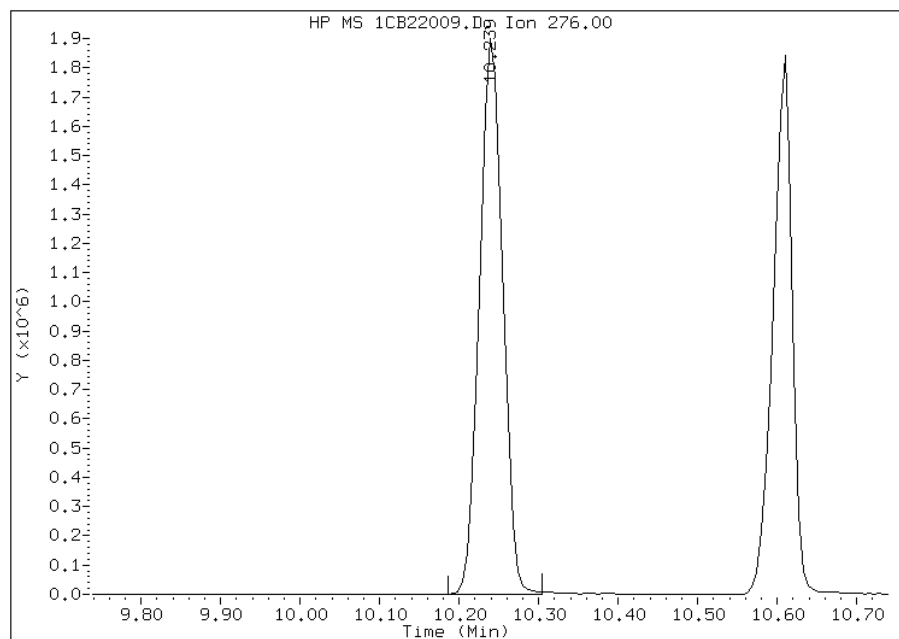


# Manual Integration Report

Data File: 1CB22009.D  
Inj. Date and Time: 22-FEB-2013 13:48  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

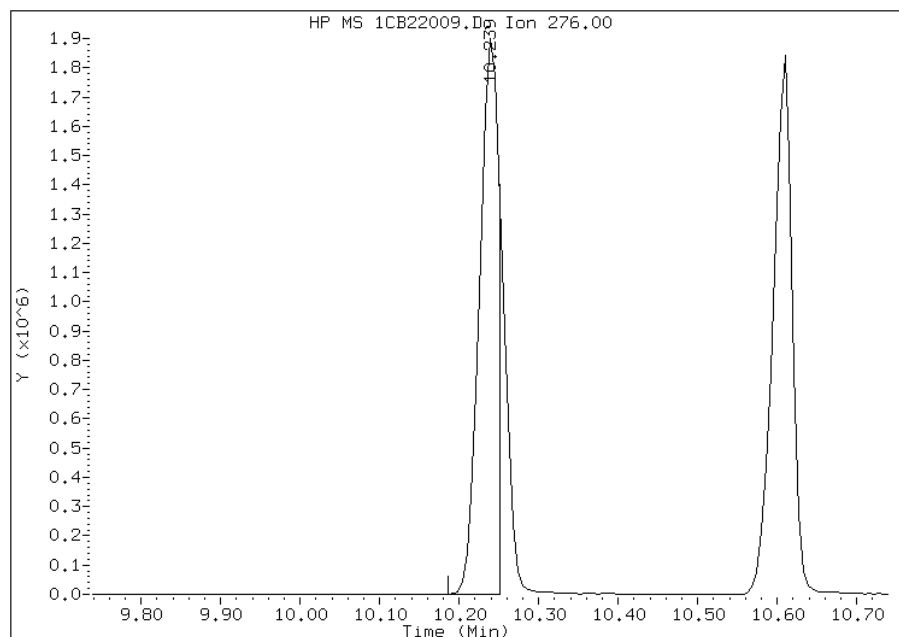
## Processing Integration Results

RT: 10.24  
Response: 3825990  
Amount: 51  
Conc: 51



## Manual Integration Results

RT: 10.24  
Response: 3187834  
Amount: 51  
Conc: 51



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:15  
Manual Integration Reason: Split Peak



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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy Batch No.: 134781

SDG No.: 68088632-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <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	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave	1.0700			0.0000	2.8		15.0				
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave	0.6816			0.0000	2.1		15.0				
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave	0.6383			0.0000	2.7		15.0				
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave	1.7635			0.0000	2.8		15.0				
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave	1.0753			0.0000	3.5		15.0				
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave	1.2563			0.0000	1.5		15.0				
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave	1.1355			0.0000	4.0		15.0				
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave	1.1361			0.0000	2.3		15.0				
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave	1.0156			0.0000	2.5		15.0				
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave	1.1849			0.0000	3.0		15.0				
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave	1.2408			0.0000	3.2		15.0				
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF	1.0951			0.0000				0.9999		0.9900	
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave	1.1306			0.0000	3.0		15.0				
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave	1.0296			0.0000	2.6		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy Batch No.: 134781

SDG No.: 68088632-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7		15.0			
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2		15.0			
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0		15.0			
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6		15.0			
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88632-1 Analy B

SDG No.: 68088632-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1 50
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1 50
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1 50
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1 50
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1 50
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1 50
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1 50
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1 50
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1 50
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

134781

N

2761

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\1DB22003.D  
Lab Smp Id: IC-1512358  
Inj Date : 22-FEB-2013 12:13  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : IC-1512358  
Misc Info :  
Comment :  
Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\dfASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
Als bottle: 3 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

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

Data File: 1DB22003.D

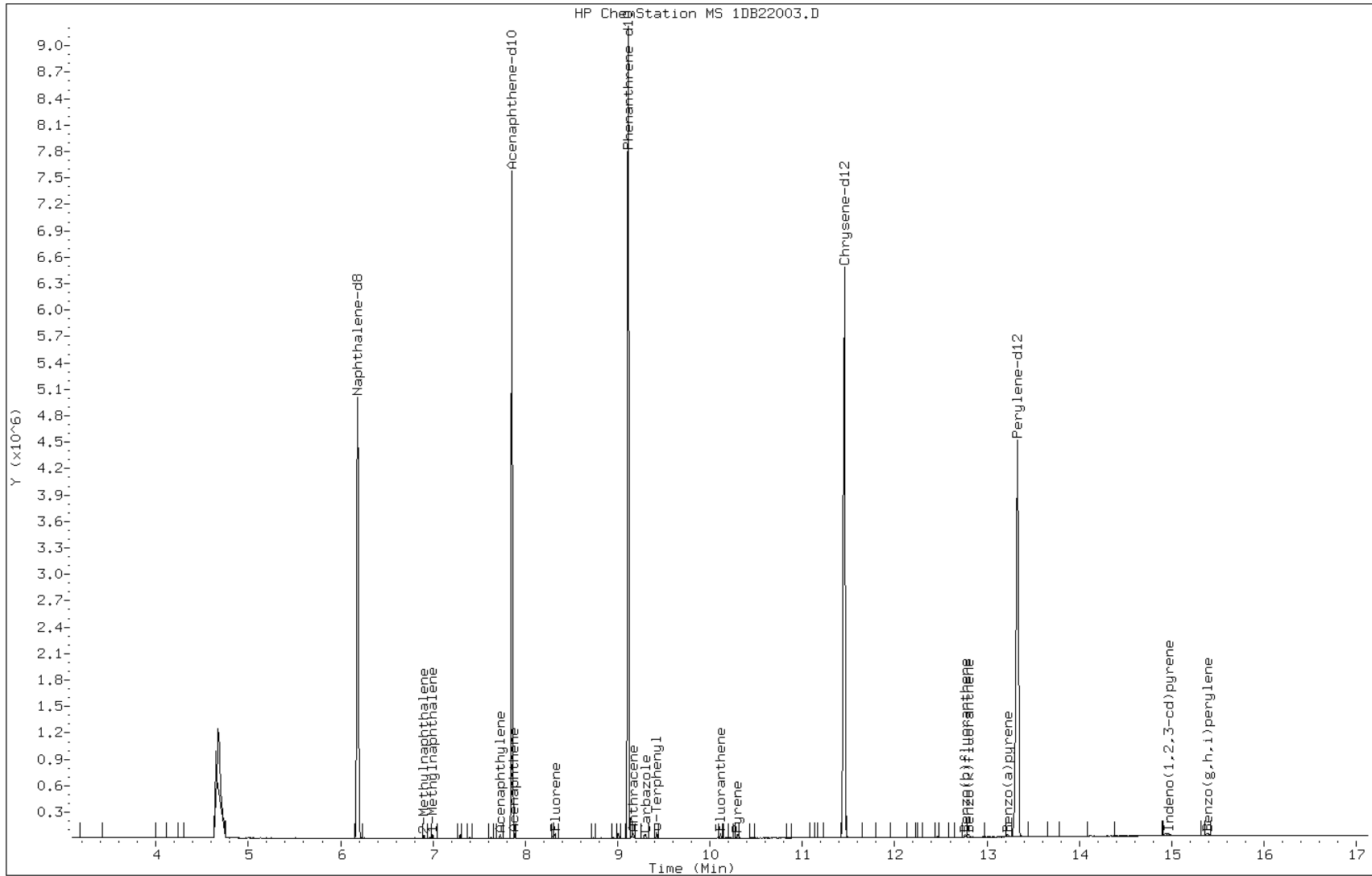
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC

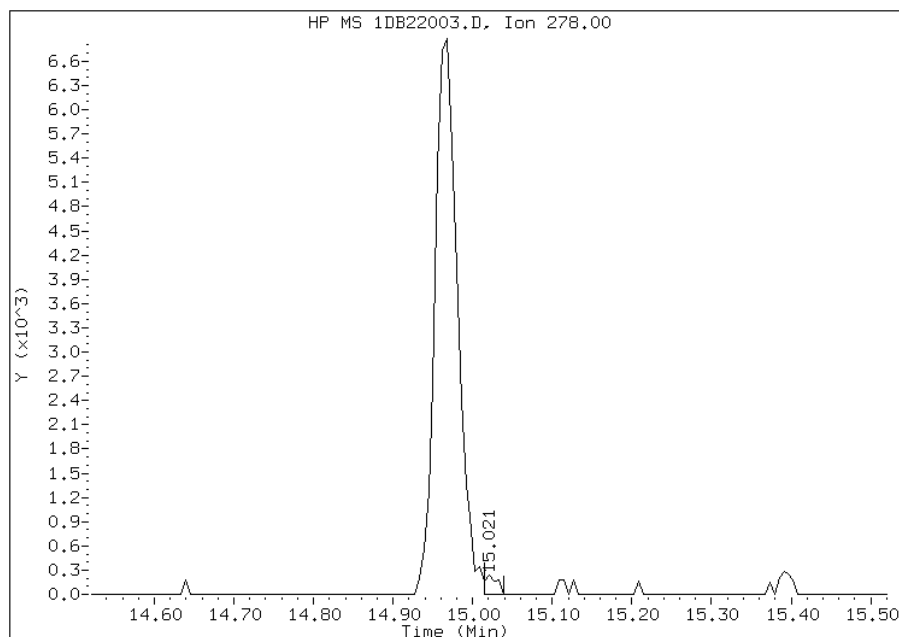


# Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 24 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 02/22/2013

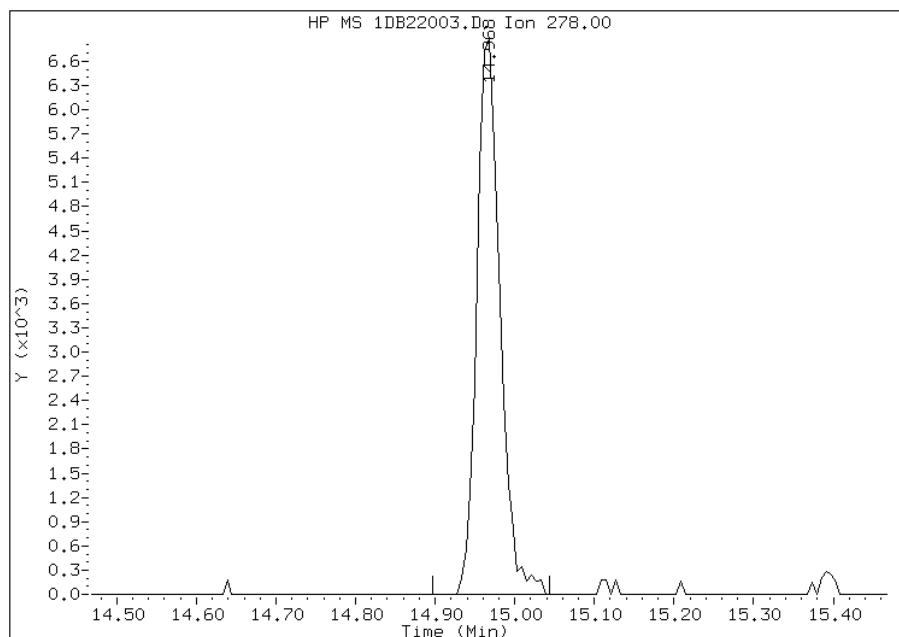
## Processing Integration Results

RT: 15.02  
Response: 262  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 14.97  
Response: 13824  
Amount: 0  
Conc: 0



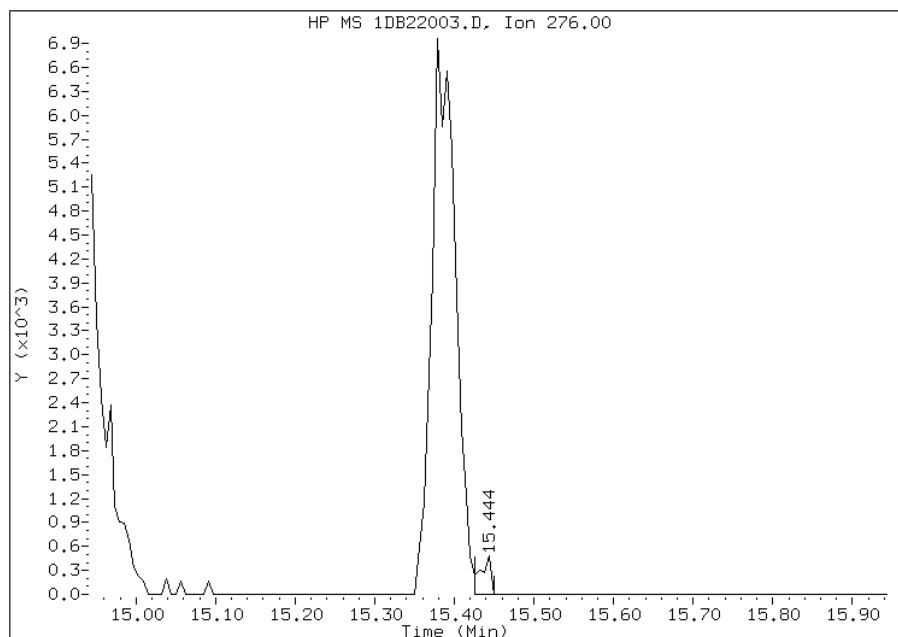
Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event

# Manual Integration Report

Data File: 1DB22003.D  
Inj. Date and Time: 22-FEB-2013 12:13  
Instrument ID: BSMDS.i  
Client ID:  
Compound: 25 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 02/22/2013

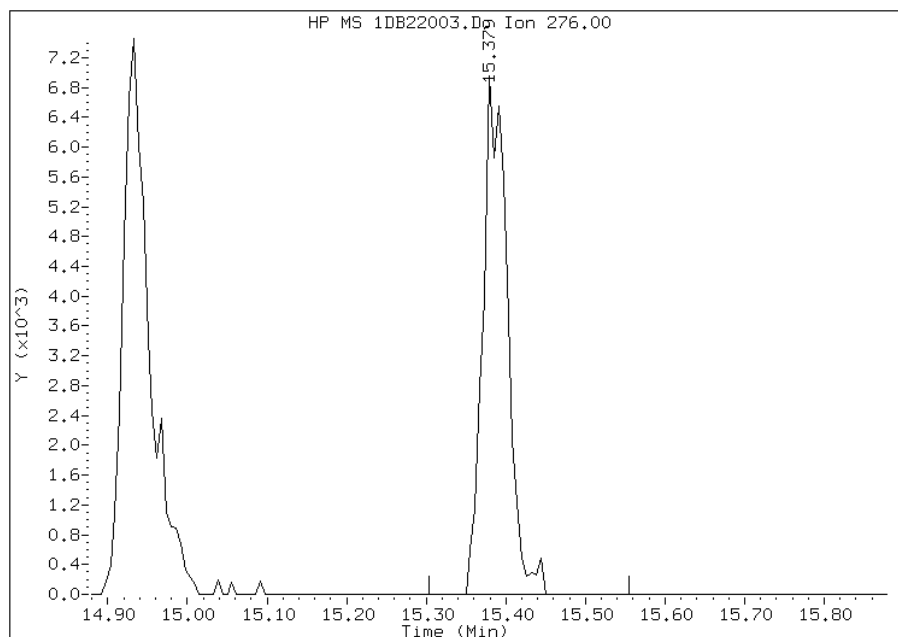
## Processing Integration Results

RT: 15.44  
Response: 456  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 15.38  
Response: 14886  
Amount: 0  
Conc: 0



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:57  
Manual Integration Reason: Baseline Event



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D  
 Lab Smp Id: IC-1512359  
 Inj Date : 22-FEB-2013 12:35  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512359  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D  
 Als bottle: 4 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
\$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

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

Data File: 1DB22004.D

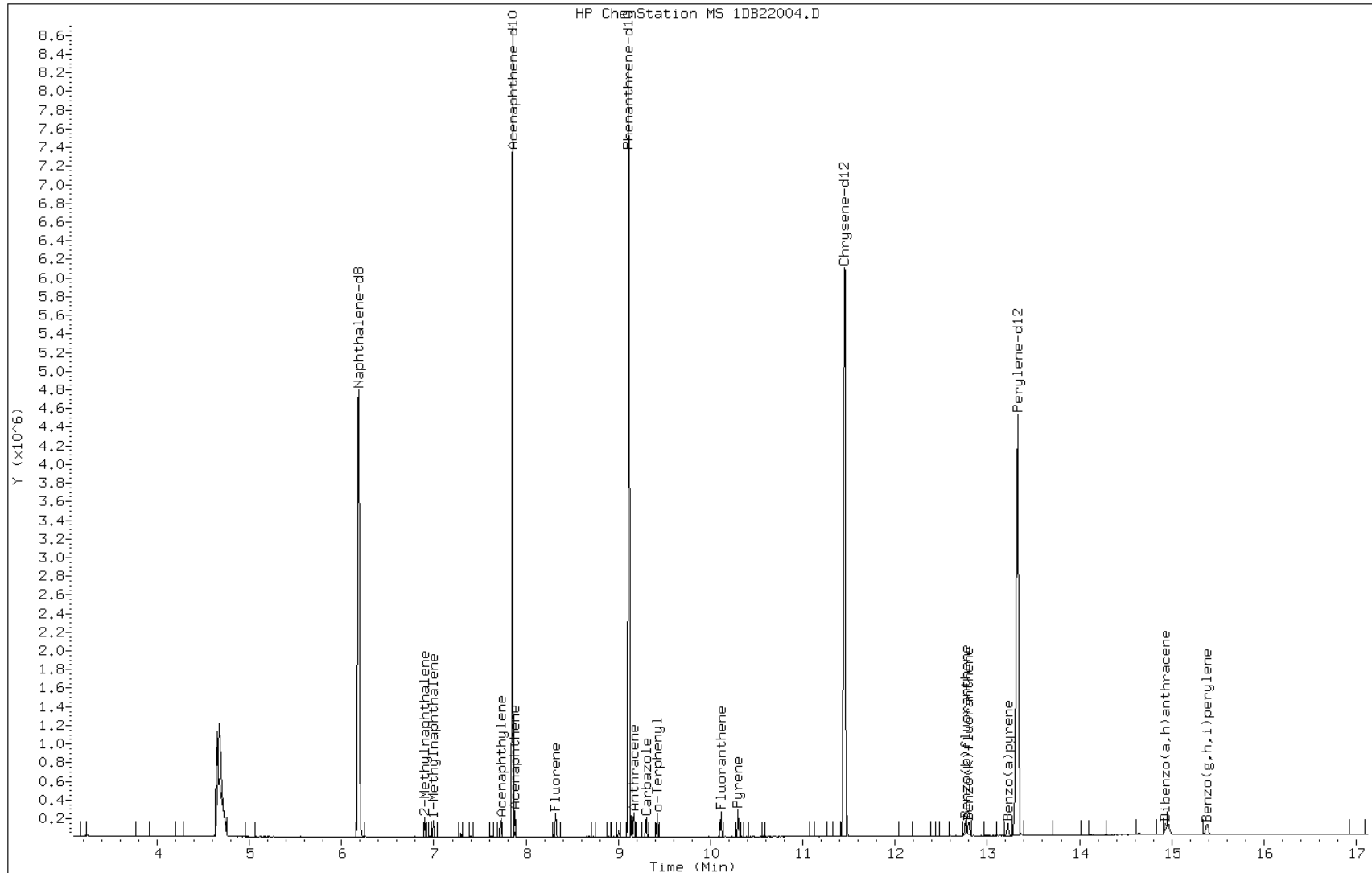
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

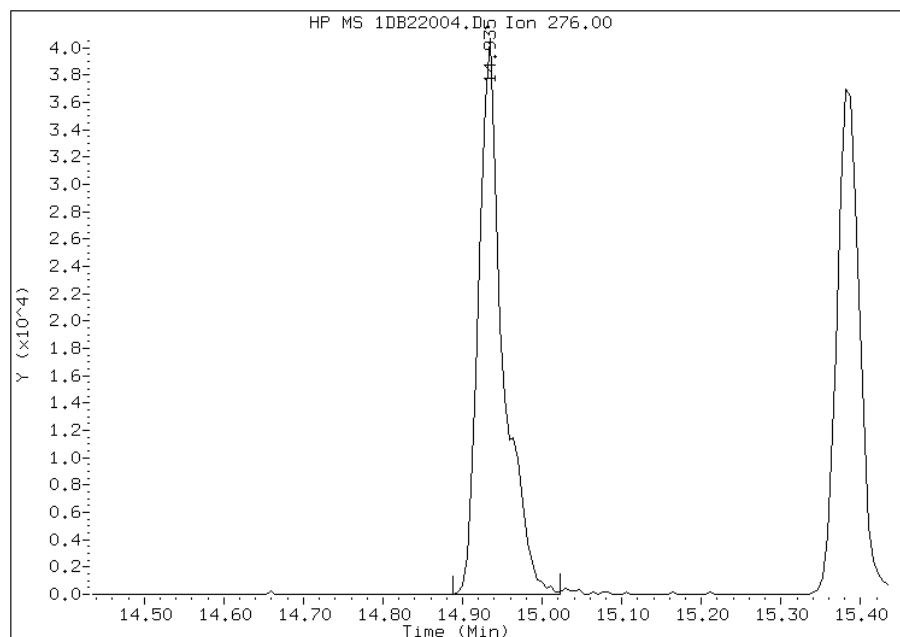


Manual Integration Report

Data File: 1DB22004.D  
Inj. Date and Time: 22-FEB-2013 12:35  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

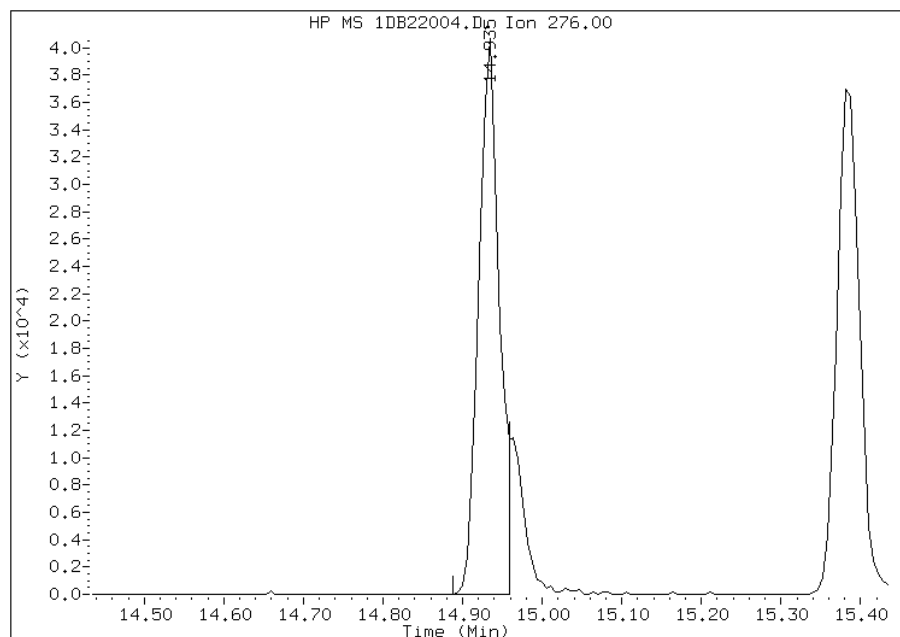
Processing Integration Results

RT: 14.93  
Response: 86267  
Amount: 1  
Conc: 1



Manual Integration Results

RT: 14.93  
Response: 73004  
Amount: 1  
Conc: 1



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D  
 Lab Smp Id: IC-1512360  
 Inj Date : 22-FEB-2013 12:58  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512360  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D  
 Als bottle: 5 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

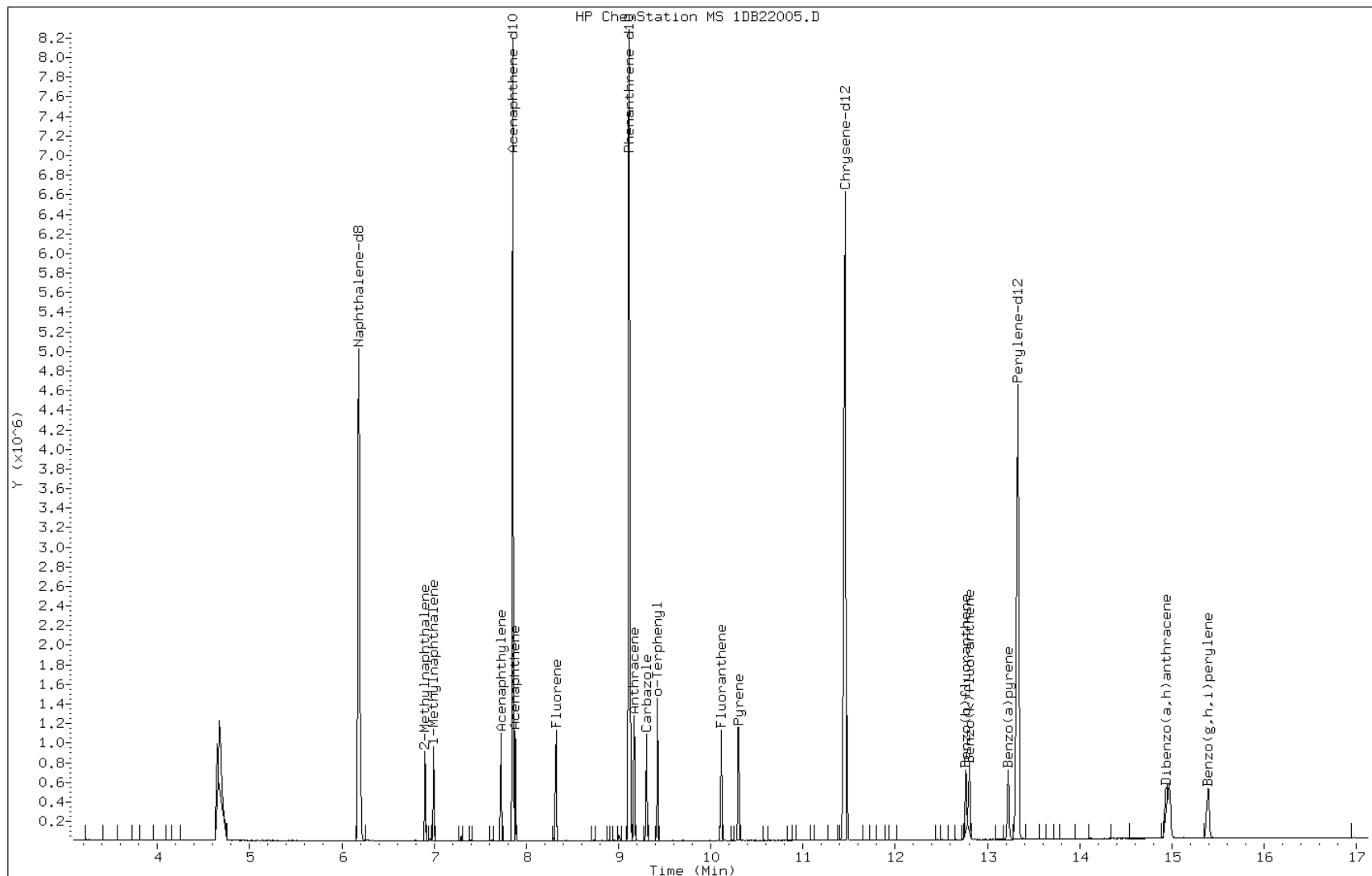
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

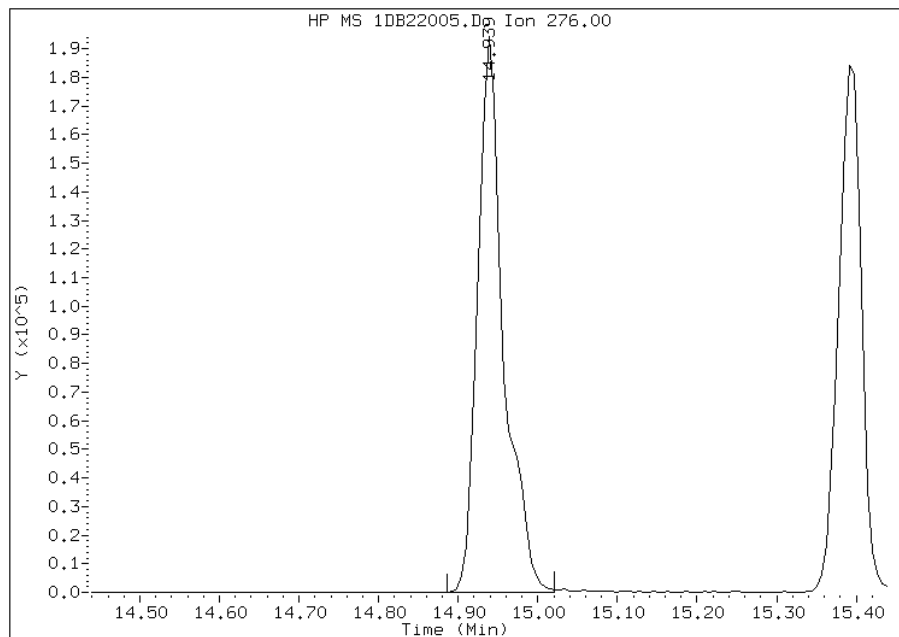


Manual Integration Report

Data File: 1DB22005.D  
Inj. Date and Time: 22-FEB-2013 12:58  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

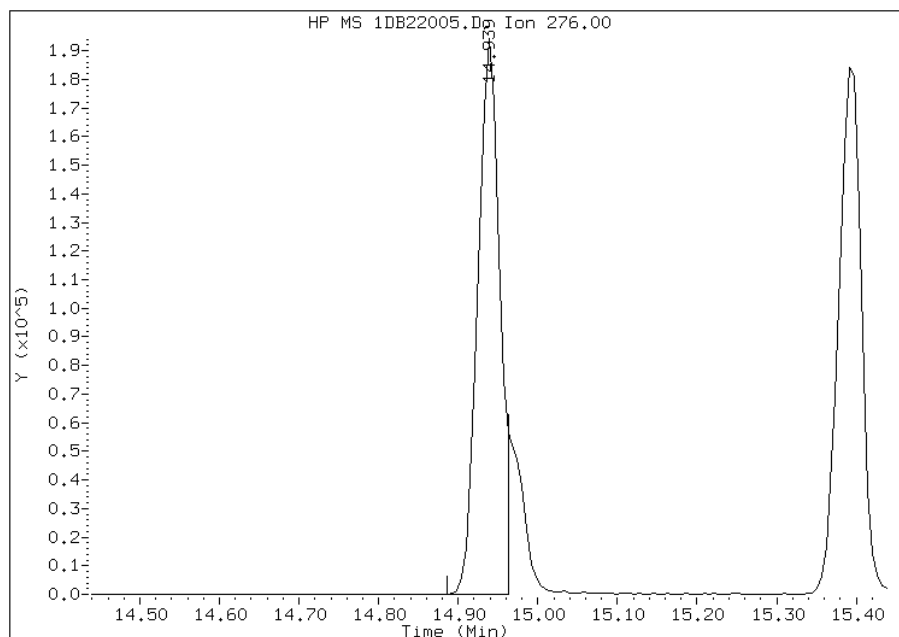
Processing Integration Results

RT: 14.94  
Response: 437022  
Amount: 5  
Conc: 5



Manual Integration Results

RT: 14.94  
Response: 372428  
Amount: 5  
Conc: 5



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:58  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D  
 Lab Smp Id: IC-1512361  
 Inj Date : 22-FEB-2013 13:21  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512361  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D  
 Als bottle: 6 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
\$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

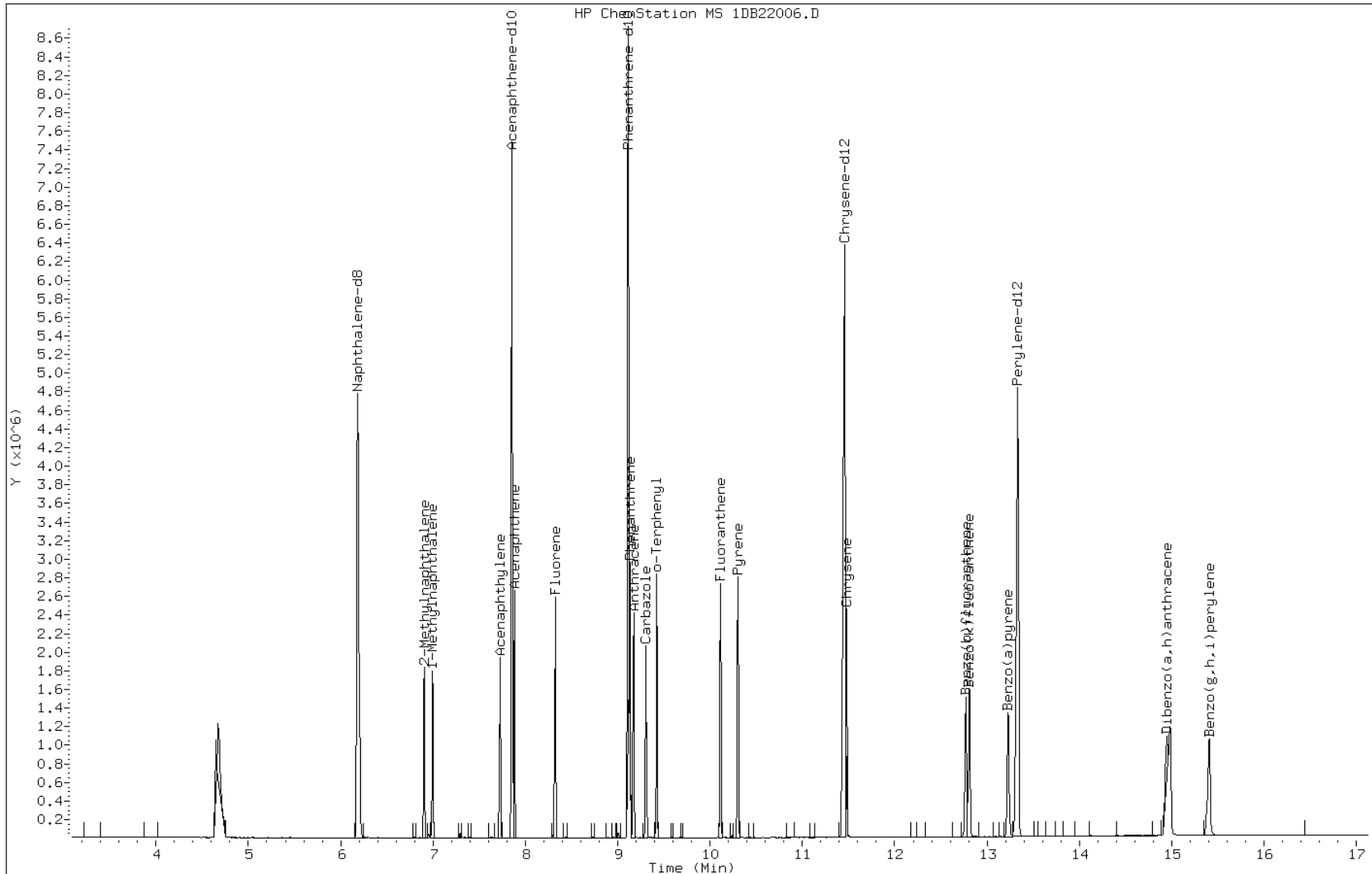
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC



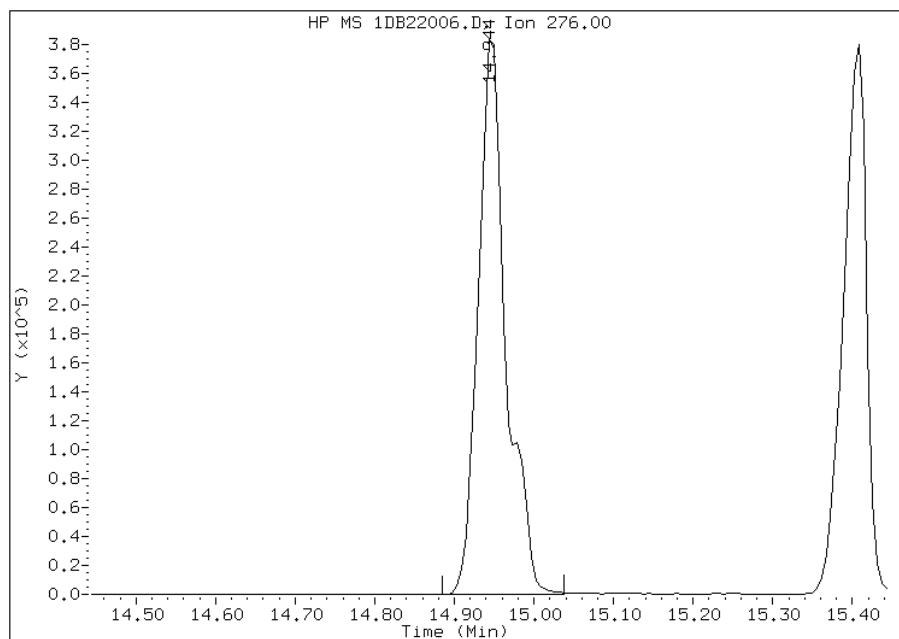


# Manual Integration Report

Data File: 1DB22006.D  
Inj. Date and Time: 22-FEB-2013 13:21  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

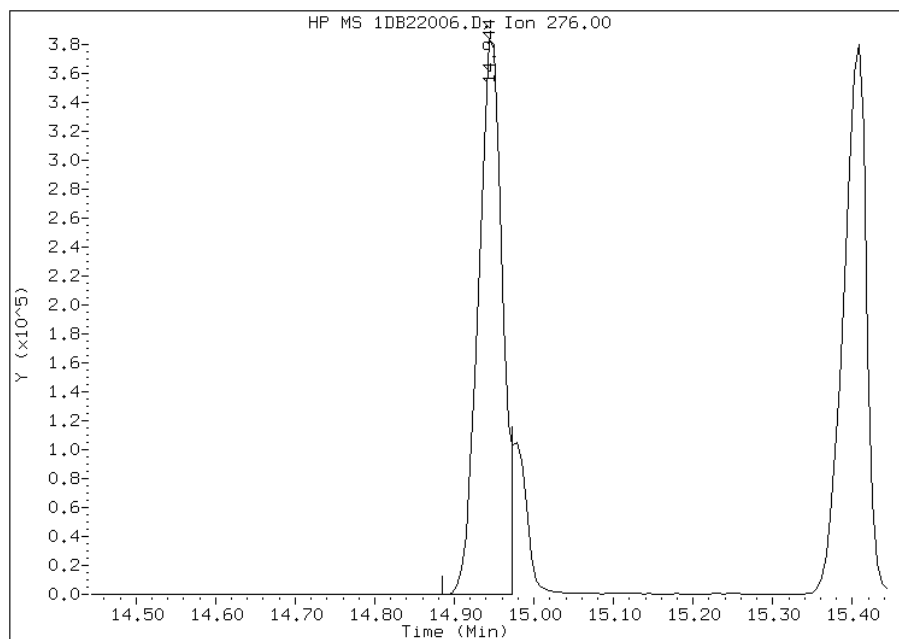
## Processing Integration Results

RT: 14.94  
Response: 923395  
Amount: 11  
Conc: 11



## Manual Integration Results

RT: 14.94  
Response: 814504  
Amount: 10  
Conc: 10



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:59  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\1DB22007.D  
Lab Smp Id: ICIS-1512372  
Inj Date : 22-FEB-2013 13:43  
Operator : SCC  
Smp Info : ICIS-1512372  
Misc Info :  
Comment :  
Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
\$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

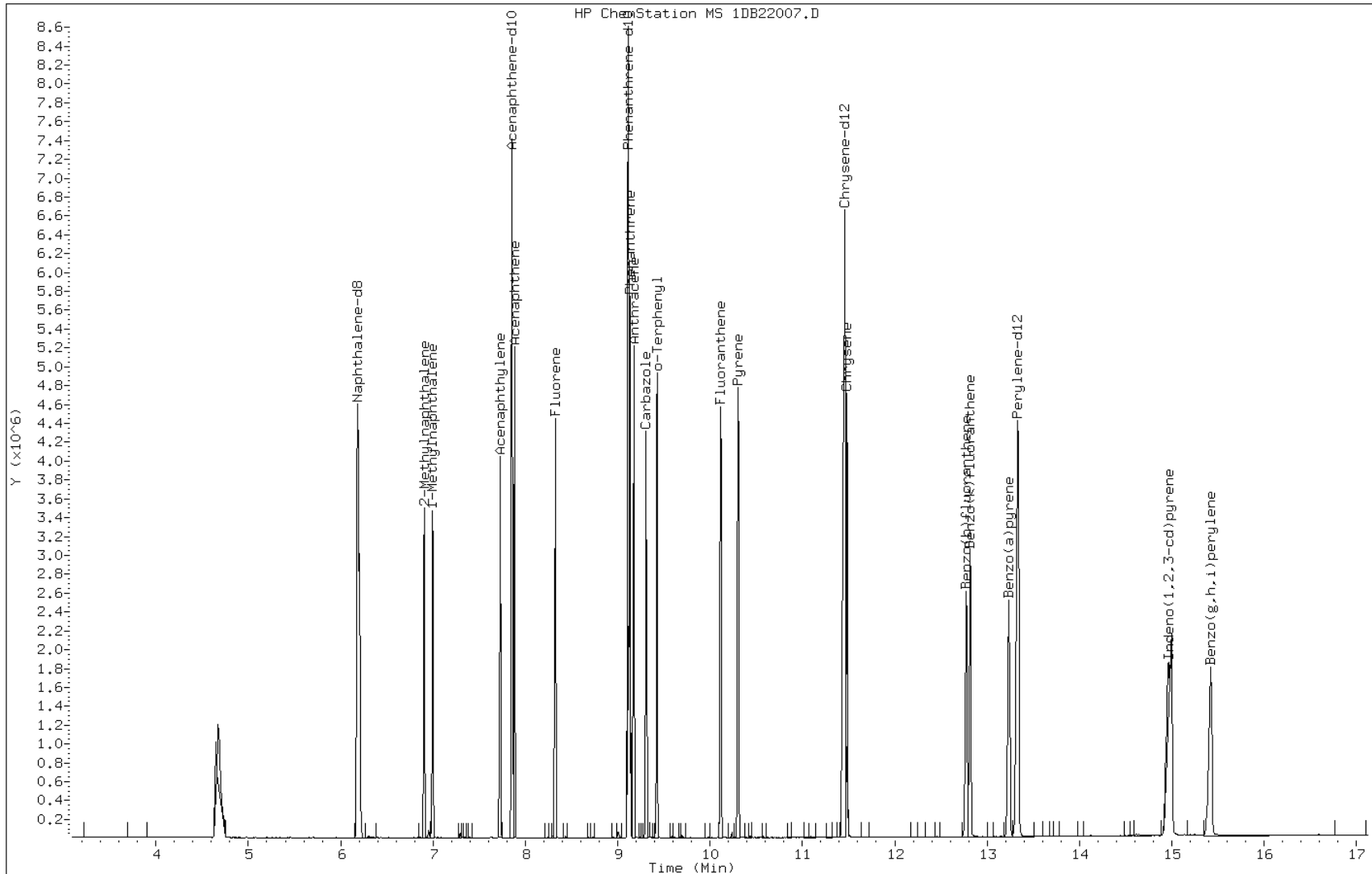
Date: 22-FEB-2013 13:43

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1512372

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D  
 Lab Smp Id: IC-1512373  
 Inj Date : 22-FEB-2013 14:06  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512373  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D  
 Als bottle: 8 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/l)	ON-COL ( ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
\$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

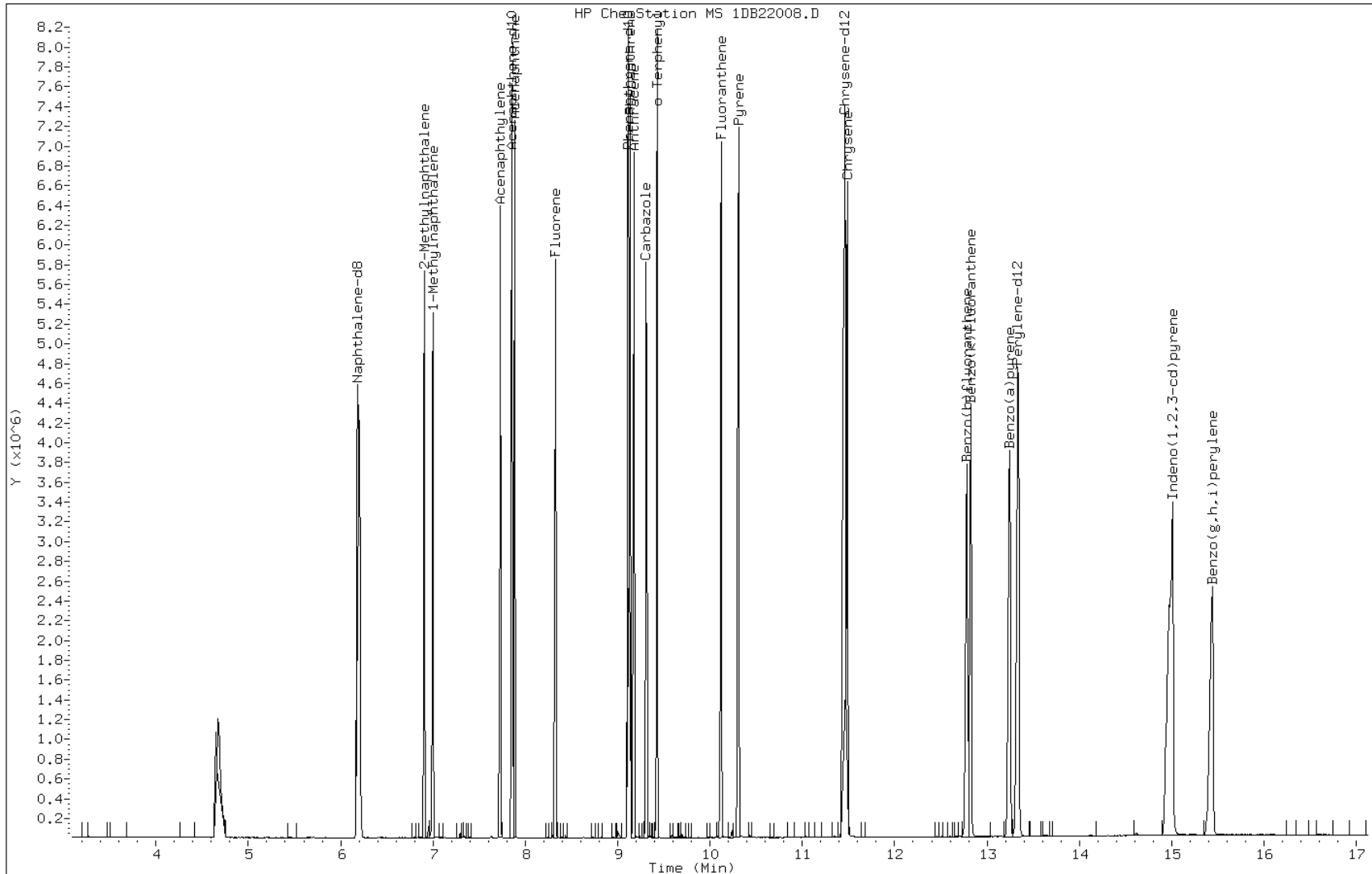
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D  
 Lab Smp Id: IC-1512374  
 Inj Date : 22-FEB-2013 14:28  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : IC-1512374  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.D  
 Als bottle: 9 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164		7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188		9.113	9.113	(1.000)	2759479	40.0000	
\$ 13 o-Terphenyl	230		9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240		11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264		13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128		6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142		6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142		6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152		7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154		7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166		8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178		9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178		9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167		9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202		10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202		10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228		11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228		11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252		12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252		12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252		13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276		14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278		15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276		15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

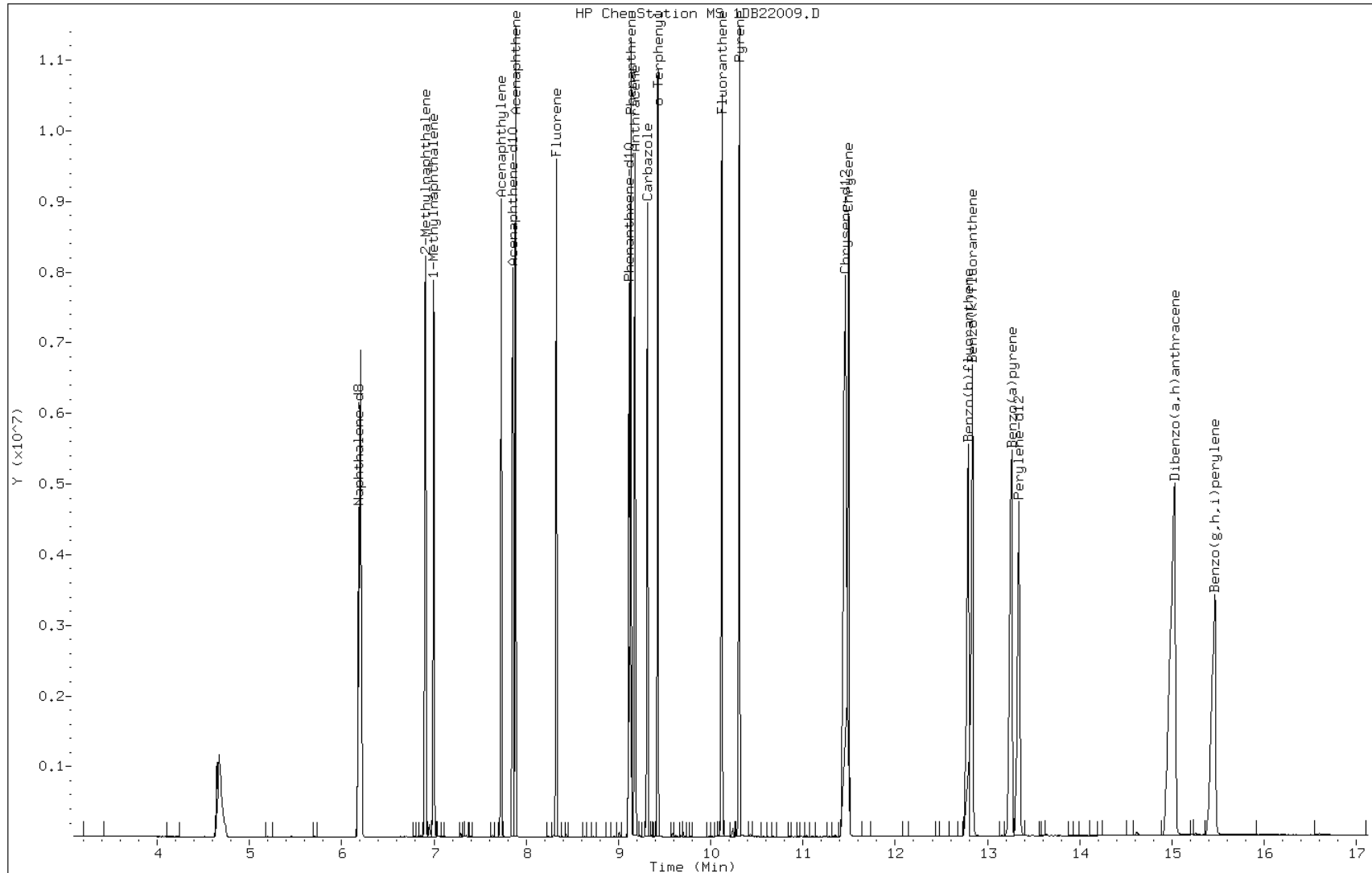
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

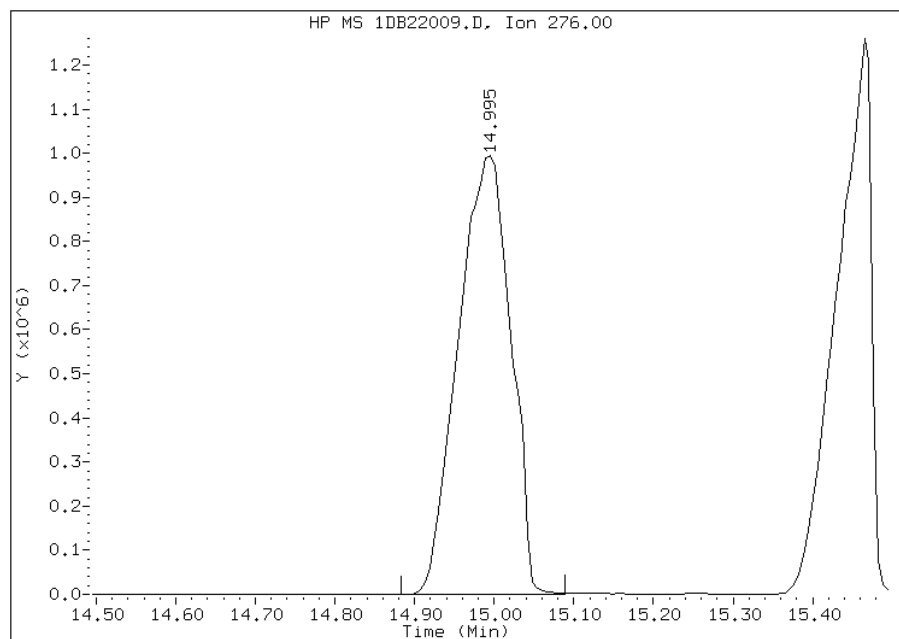


# Manual Integration Report

Data File: 1DB22009.D  
Inj. Date and Time: 22-FEB-2013 14:28  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

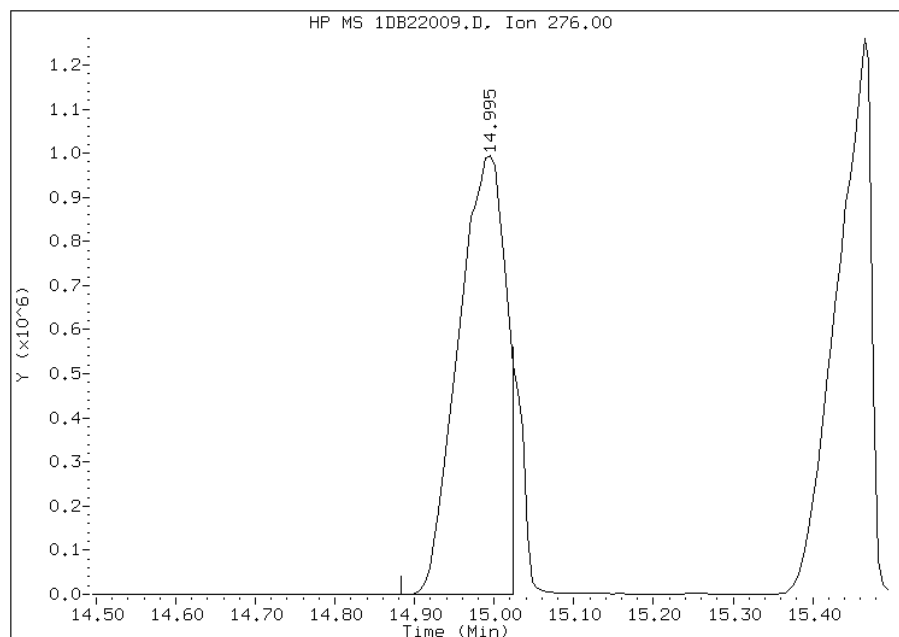
## Processing Integration Results

RT: 15.00  
Response: 4559640  
Amount: 57  
Conc: 57



## Manual Integration Results

RT: 15.00  
Response: 4194422  
Amount: 53  
Conc: 53



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:00  
Manual Integration Reason: Split Peak



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:06  
 Operator : SCC  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m  
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE 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		3.804	3.804	(1.000)	1383069	40.0000		
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	1075067	40.0000		
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	2141313	40.0000		
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	528461	16.3458	16.3457	
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2766374	40.0000		
* 23 Perylene-d12	264		9.015	9.016	(1.000)	3034368	40.0000		
2 Naphthalene	128		3.816	3.816	(1.003)	643385	17.8686	17.8685	
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	426527	17.7587	17.7586	
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	406896	18.6013	18.6013	
5 Acenaphthylene	152		4.804	4.804	(0.982)	792099	18.2750	18.2749	
7 Acenaphthene	154		4.910	4.910	(1.004)	511893	19.0010	19.0010	
9 Fluorene	166		5.233	5.234	(1.070)	612561	17.9790	17.9790	
11 Phenanthrene	178		5.863	5.863	(1.003)	1016506	16.4172	16.4171	
12 Anthracene	178		5.898	5.898	(1.009)	1040221	17.1782	17.1781	
13 Carbazole	167		6.004	6.004	(1.027)	936321	17.3944	17.3943	
15 Fluoranthene	202		6.704	6.704	(1.147)	1196804	17.6502	17.6501	
16 Pyrene	202		6.874	6.875	(0.882)	1218381	16.3888	16.3887	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228		7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252		8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252		8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276		10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

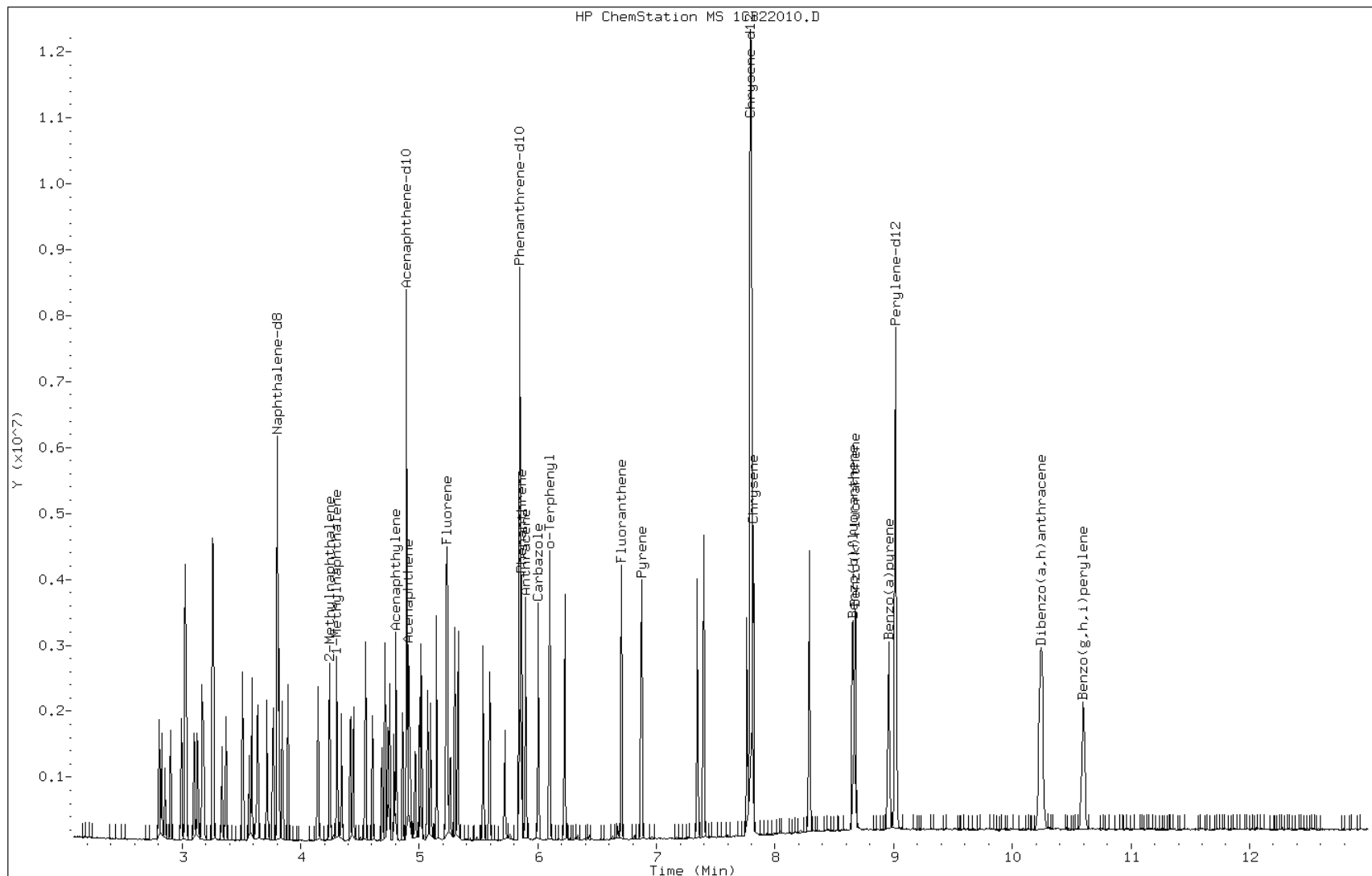
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

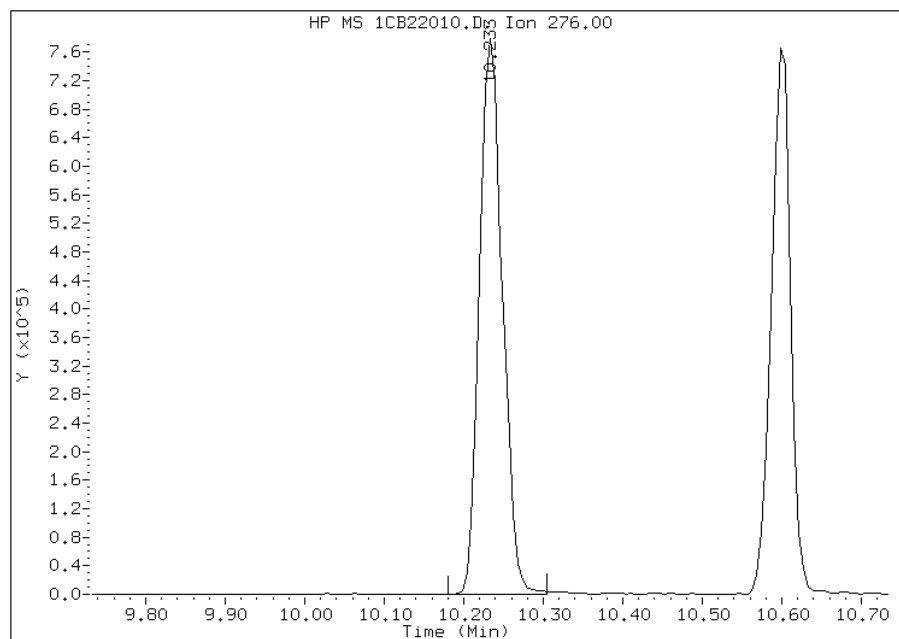


Manual Integration Report

Data File: 1CB22010.D  
Inj. Date and Time: 22-FEB-2013 14:06  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 02/22/2013

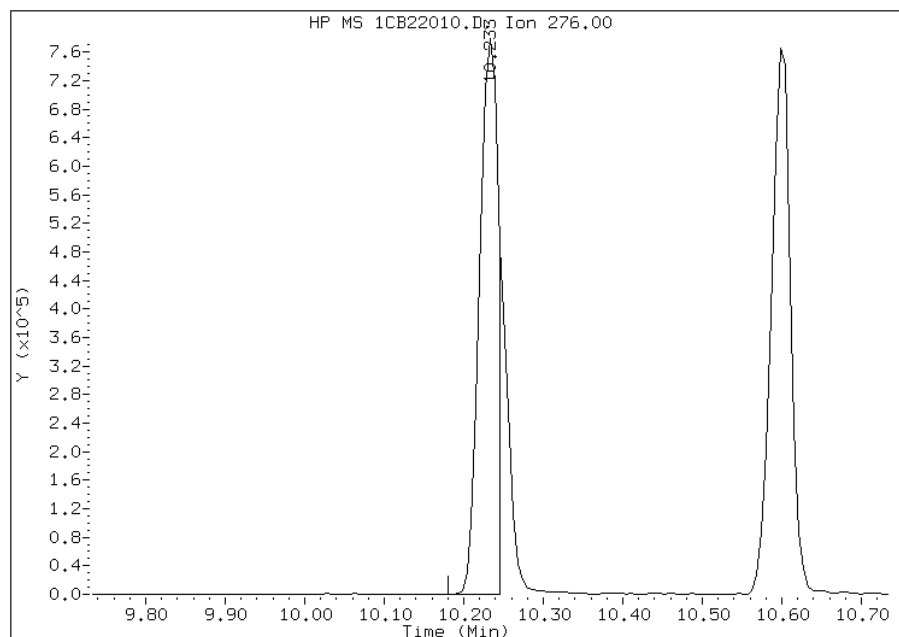
Processing Integration Results

RT: 10.23  
Response: 1550656  
Amount: 21  
Conc: 21



Manual Integration Results

RT: 10.23  
Response: 1271997  
Amount: 18  
Conc: 18



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 14:21  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: CCVIS 660-135830/3 Calibration Date: 03/27/2013 10:35  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CC27003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.070	0.0000	20600	20000	2.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6931	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6567	0.0000	20800	20000	3.8	20.0
Acenaphthylene	Ave	1.613	1.678	0.0000	20800	20000	4.0	20.0
Acenaphthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Fluorene	Ave	1.268	1.250	0.0000	19700	20000	-1.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.111	0.0000	19600	20000	-1.8	20.0
Carbazole	Ave	1.006	1.004	0.0000	20000	20000	-0.2	20.0
Fluoranthene	Ave	1.267	1.264	0.0000	20000	20000	-0.2	20.0
Pyrene	Ave	1.075	1.116	0.0000	20800	20000	3.8	20.0
Benzo[a]anthracene	Ave	1.154	1.067	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.155	1.108	0.0000	19200	20000	-4.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.141	0.0000	21300	20000	6.4	20.0
Benzo[a]pyrene	Ave	1.015	1.040	0.0000	20500	20000	2.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.019	0.0000	21300	20000	6.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9194	0.0000	19700	20000	-1.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9809	0.0000	19600	20000	-1.8	20.0
o-Terphenyl	Ave	0.6039	0.5973	0.0000	19800	20000	-1.1	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 27-MAR-2013 10:35  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.727	3.727	(1.000)	740866	40.0000	(H)
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	575327	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092531	40.0000	(H)
\$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	326267	20.0000	19.7793(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1389214	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1427635	40.0000	(H)
2 Naphthalene	128	3.739	3.739	(1.003)	396388	20.0000	20.5515(H)
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	256741	20.0000	19.9555(H)
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	243257	20.0000	20.7601(H)
5 Acenaphthylene	152	4.727	4.727	(0.982)	482667	20.0000	20.8087
7 Acenaphthene	154	4.833	4.833	(1.004)	279269	20.0000	19.3705
9 Fluorene	166	5.157	5.157	(1.071)	359663	20.0000	19.7257
11 Phenanthrene	178	5.780	5.780	(1.003)	609016	20.0000	19.2780(H)
12 Anthracene	178	5.815	5.815	(1.009)	606997	20.0000	19.6464(H)
13 Carbazole	167	5.921	5.921	(1.028)	548301	20.0000	19.9640(H)
15 Fluoranthene	202	6.615	6.615	(1.148)	690237	20.0000	19.9512(H)
16 Pyrene	202	6.786	6.786	(0.881)	775208	20.0000	20.7646(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	741118	20.0000	18.4838(H)
19 Chrysene	228	7.727	7.727	(1.003)	769393	20.0000	19.1746(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	739836	20.0000	19.8297(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	814806	20.0000	21.2889(H)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	742319	20.0000	20.4836(H)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	727254	20.0000	21.3325(MH)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.133)	656298	20.0000	19.6814(H)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	700171	20.0000	19.6333(H)

QC Flag Legend

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

Data File: 1CC27003.D

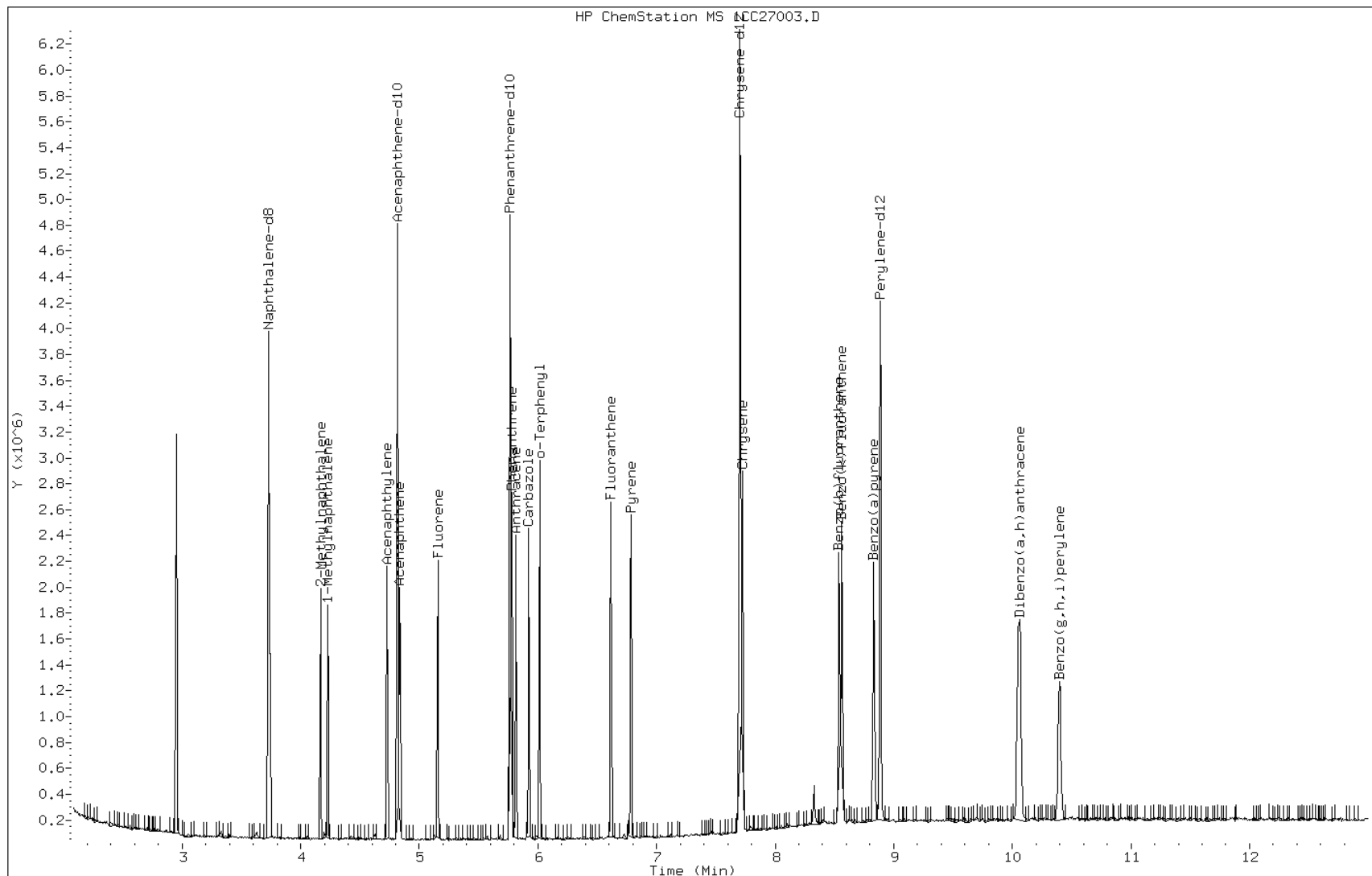
Date: 27-MAR-2013 10:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



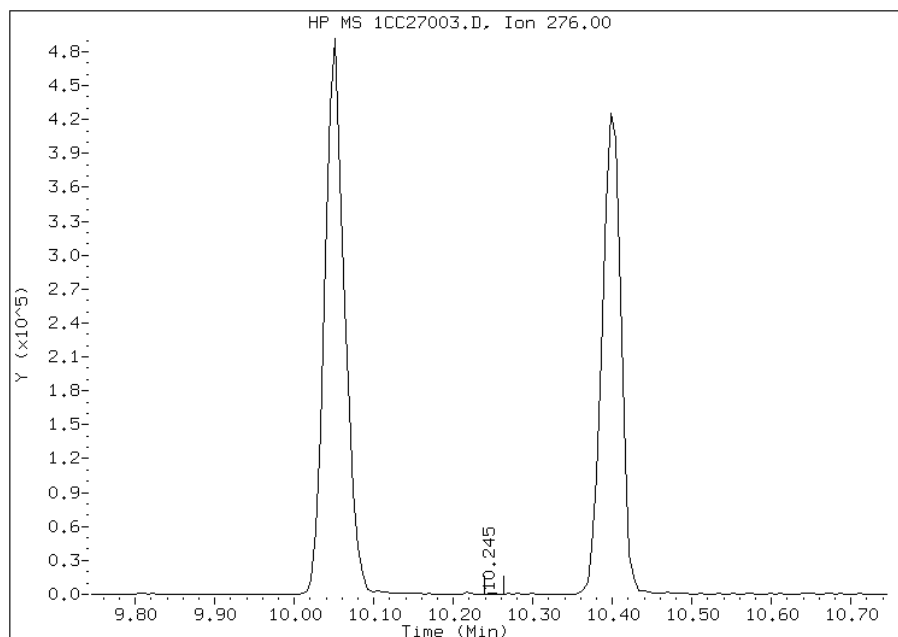


# Manual Integration Report

Data File: 1CC27003.D  
Inj. Date and Time: 27-MAR-2013 10:35  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

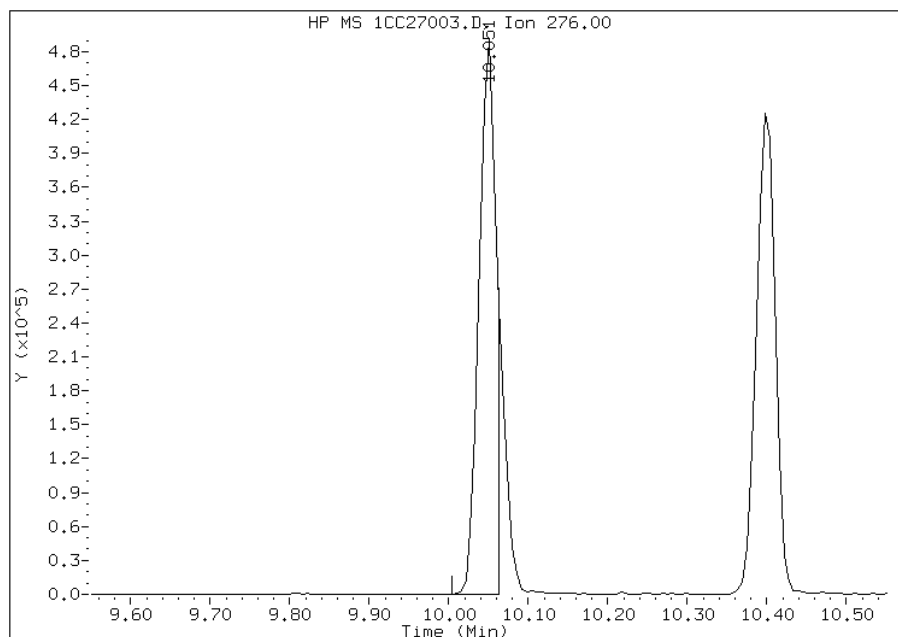
## Processing Integration Results

RT: 10.25  
Response: 881  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.05  
Response: 727254  
Amount: 21  
Conc: 21



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 10:50  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: CCVIS 660-135902/3 Calibration Date: 03/28/2013 11:59  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CC28003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.043	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6946	0.6791	0.0000	19600	20000	-2.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6718	0.0000	21200	20000	6.2	20.0
Acenaphthylene	Ave	1.613	1.586	0.0000	19700	20000	-1.7	20.0
Acenaphthene	Ave	1.002	0.9488	0.0000	18900	20000	-5.3	20.0
Fluorene	Ave	1.268	1.258	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.157	1.102	0.0000	19100	20000	-4.7	20.0
Anthracene	Ave	1.131	1.116	0.0000	19700	20000	-1.3	20.0
Carbazole	Ave	1.006	0.9778	0.0000	19400	20000	-2.8	20.0
Fluoranthene	Ave	1.267	1.229	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.121	0.0000	20900	20000	4.3	20.0
Benzo[a]anthracene	Ave	1.154	1.025	0.0000	17700	20000	-11.3	20.0
Chrysene	Ave	1.155	1.082	0.0000	18700	20000	-6.3	20.0
Benzo[b]fluoranthene	Ave	1.045	1.064	0.0000	20400	20000	1.8	20.0
Benzo[k]fluoranthene	Ave	1.072	1.088	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.015	1.025	0.0000	20200	20000	1.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9407	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8825	0.0000	18900	20000	-5.5	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9391	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.5809	0.0000	19200	20000	-3.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 28-MAR-2013 11:59  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m  
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.722	3.722	(1.000)	797659	40.0000	(H)
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	631634	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.763	(1.000)	1190245	40.0000	(H)
\$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	345706	20.0000	19.2372(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1432718	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1426297	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.003)	416161	20.0000	20.0404(H)
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	270837	20.0000	19.5523(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	267925	20.0000	21.2373(H)
5 Acenaphthylene	152	4.722	4.722	(0.982)	500869	20.0000	19.6685
7 Acenaphthene	154	4.833	4.833	(1.005)	299637	20.0000	18.9305
9 Fluorene	166	5.151	5.151	(1.071)	397422	20.0000	19.8535
11 Phenanthrene	178	5.774	5.774	(1.002)	656012	20.0000	19.0609(H)
12 Anthracene	178	5.810	5.810	(1.008)	664445	20.0000	19.7403(H)
13 Carbazole	167	5.921	5.921	(1.028)	581925	20.0000	19.4488(H)
15 Fluoranthene	202	6.616	6.616	(1.148)	731155	20.0000	19.3989(H)
16 Pyrene	202	6.780	6.780	(0.880)	803113	20.0000	20.8588(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	733974	20.0000	17.7498(H)
19 Chrysene	228	7.721	7.721	(1.002)	775164	20.0000	18.7318(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	758720	20.0000	20.3549(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	775934	20.0000	20.2923(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	731036	20.0000	20.1911(H)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	670883	20.0000	19.6974(MH)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	629352	20.0000	18.8910(H)
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	669710	20.0000	18.7968(H)

QC Flag Legend

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

Data File: 1CC28003.D

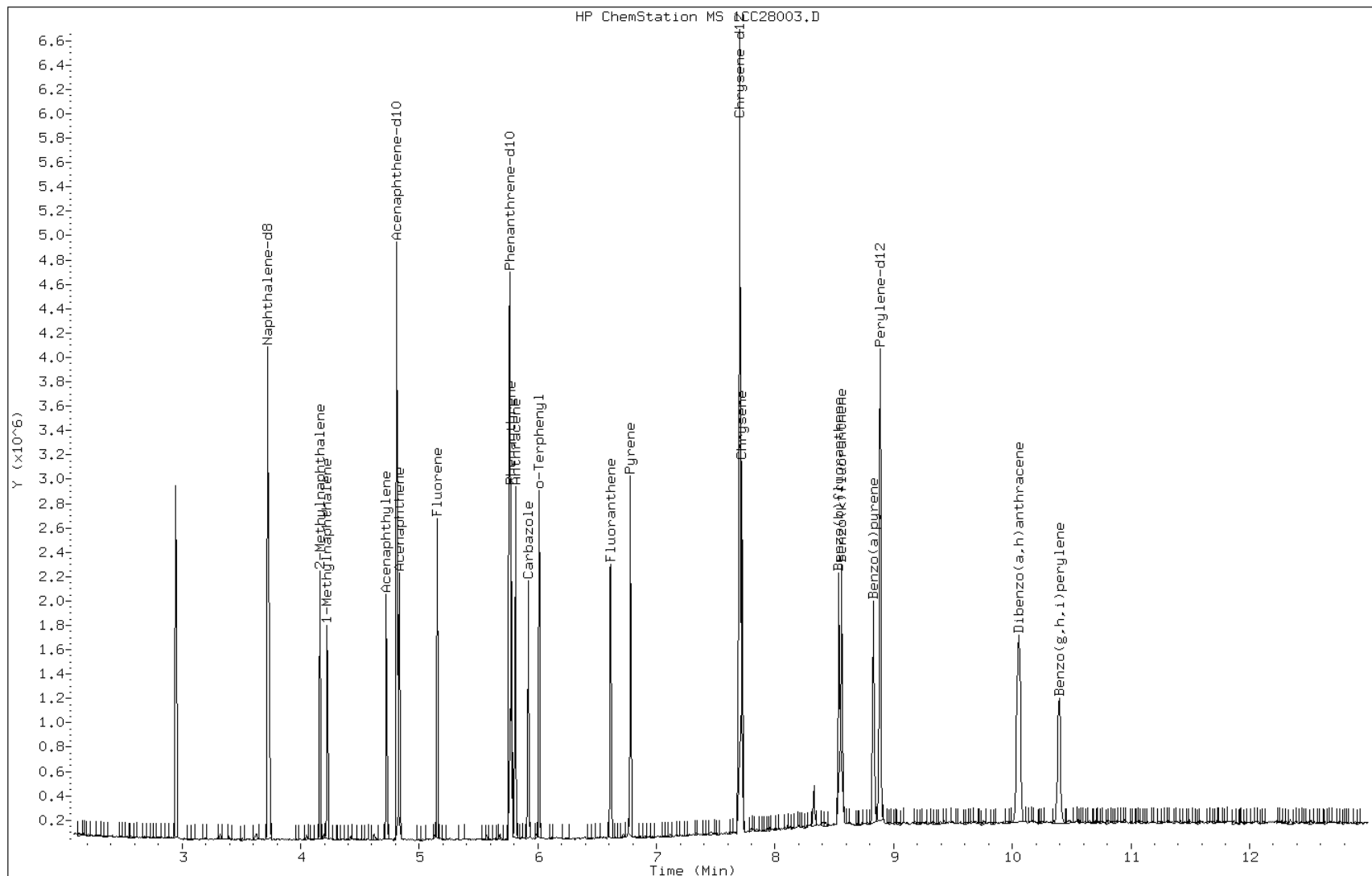
Date: 28-MAR-2013 11:59

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

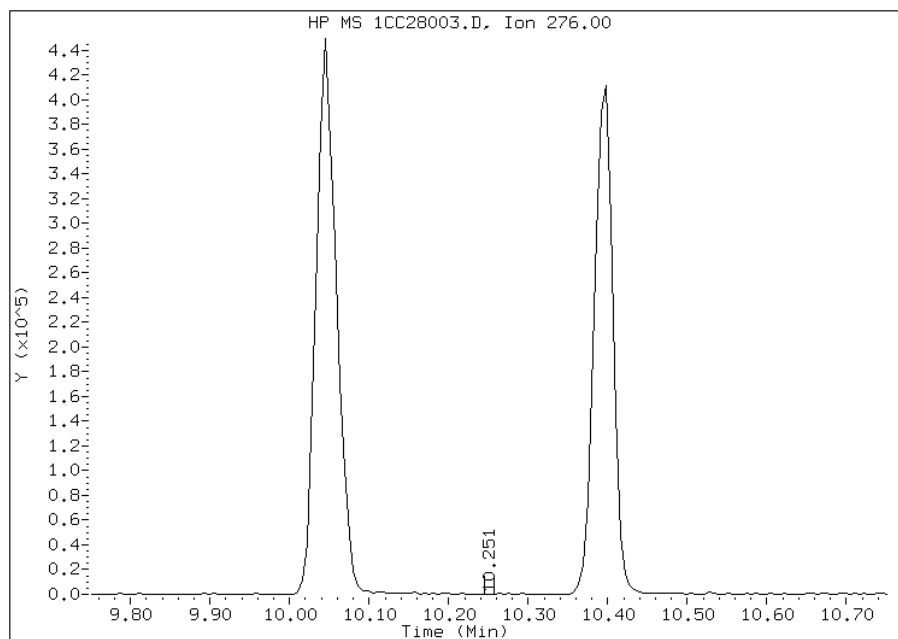


# Manual Integration Report

Data File: 1CC28003.D  
Inj. Date and Time: 28-MAR-2013 11:59  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/28/2013

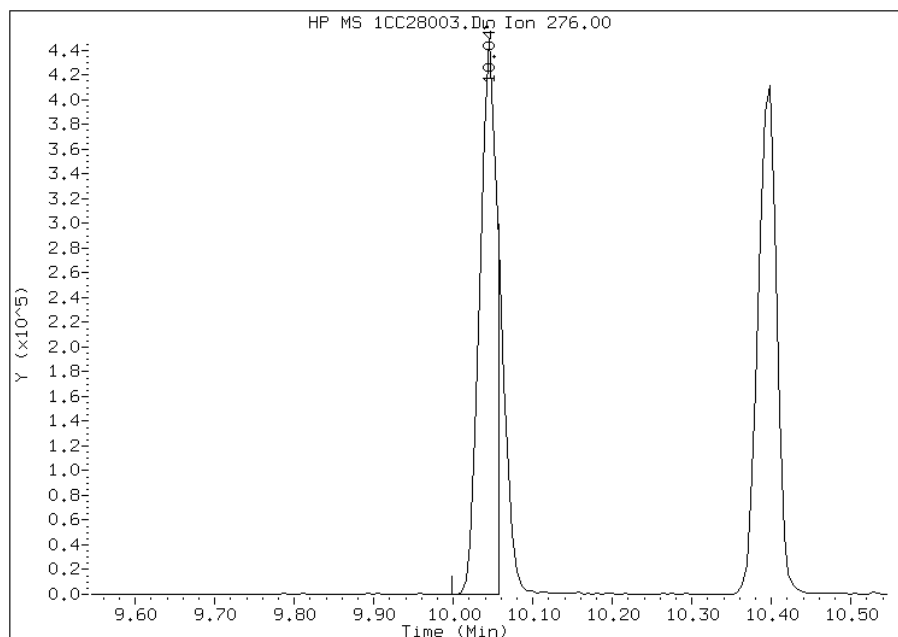
## Processing Integration Results

RT: 10.25  
Response: 122  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.05  
Response: 670883  
Amount: 20  
Conc: 20



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 12:17  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: CCVIS 660-135996/3 Calibration Date: 04/01/2013 11:31  
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48  
 Lab File ID: 1CD01003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.006	0.0000	19300	20000	-3.4	20.0
2-Methylnaphthalene	Ave	0.6946	0.7060	0.0000	20300	20000	1.6	20.0
1-Methylnaphthalene	Ave	0.6326	0.6390	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.613	1.556	0.0000	19300	20000	-3.5	20.0
Acenaphthene	Ave	1.002	0.9013	0.0000	18000	20000	-10.1	20.0
Fluorene	Ave	1.268	1.225	0.0000	19300	20000	-3.3	20.0
Phenanthrene	Ave	1.157	1.107	0.0000	19100	20000	-4.3	20.0
Anthracene	Ave	1.131	1.104	0.0000	19500	20000	-2.4	20.0
Carbazole	Ave	1.006	0.9651	0.0000	19200	20000	-4.0	20.0
Fluoranthene	Ave	1.267	1.228	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.092	0.0000	20300	20000	1.6	20.0
Benzo[a]anthracene	Ave	1.154	1.081	0.0000	18700	20000	-6.4	20.0
Chrysene	Ave	1.155	1.066	0.0000	18500	20000	-7.7	20.0
Benzo[b]fluoranthene	Ave	1.045	1.081	0.0000	20700	20000	3.5	20.0
Benzo[k]fluoranthene	Ave	1.072	1.031	0.0000	19200	20000	-3.9	20.0
Benzo[a]pyrene	Ave	1.015	1.019	0.0000	20100	20000	0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9224	0.0000	19300	20000	-3.4	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9275	0.0000	19900	20000	-0.7	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9409	0.0000	18800	20000	-5.8	20.0
o-Terphenyl	Ave	0.6039	0.6045	0.0000	20000	20000	0.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01003.D  
 Lab Smp Id: CCVIS-1512372  
 Inj Date : 01-APR-2013 11:31  
 Operator : SCC  
 Smp Info : CCVIS-1512372  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 3 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.716	3.716	(1.000)	761650	40.0000	(H)
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	604806	40.0000	(H)
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	1101759	40.0000	(H)
\$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	332980	20.0000	20.0172(H)
* 18 Chrysene-d12	240	7.698	7.698	(1.000)	1332309	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1345071	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.005)	383082	20.0000	19.3196(H)
3 2-Methylnaphthalene	142	4.157	4.157	(1.119)	268864	20.0000	20.3275(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.136)	243336	20.0000	20.2001
5 Acenaphthylene	152	4.716	4.716	(0.982)	470684	20.0000	19.3030(H)
7 Acenaphthene	154	4.827	4.827	(1.005)	272549	20.0000	17.9829
9 Fluorene	166	5.145	5.145	(1.071)	370590	20.0000	19.3343(H)
11 Phenanthrene	178	5.768	5.768	(1.002)	609615	20.0000	19.1353(H)
12 Anthracene	178	5.804	5.804	(1.008)	607904	20.0000	19.5110(H)
13 Carbazole	167	5.910	5.910	(1.027)	531662	20.0000	19.1961(H)
15 Fluoranthene	202	6.604	6.604	(1.147)	676516	20.0000	19.3908(H)
16 Pyrene	202	6.774	6.774	(0.880)	727417	20.0000	20.3167(H)
17 Benzo(a)anthracene	228	7.692	7.692	(0.999)	720022	20.0000	18.7247(H)
19 Chrysene	228	7.715	7.715	(1.002)	710095	20.0000	18.4527(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	727316	20.0000	20.6907(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	693165	20.0000	19.2224(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	685360	20.0000	20.0727(H)
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.039	(1.130)	620361	20.0000	19.3140(MH)
25 Dibenzo(a,h)anthracene	278	10.056	10.056	(1.132)	623765	20.0000	19.8540(H)
26 Benzo(g,h,i)perylene	276	10.386	10.386	(1.169)	632761	20.0000	18.8322(H)

QC Flag Legend

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

Data File: 1CD01003.D

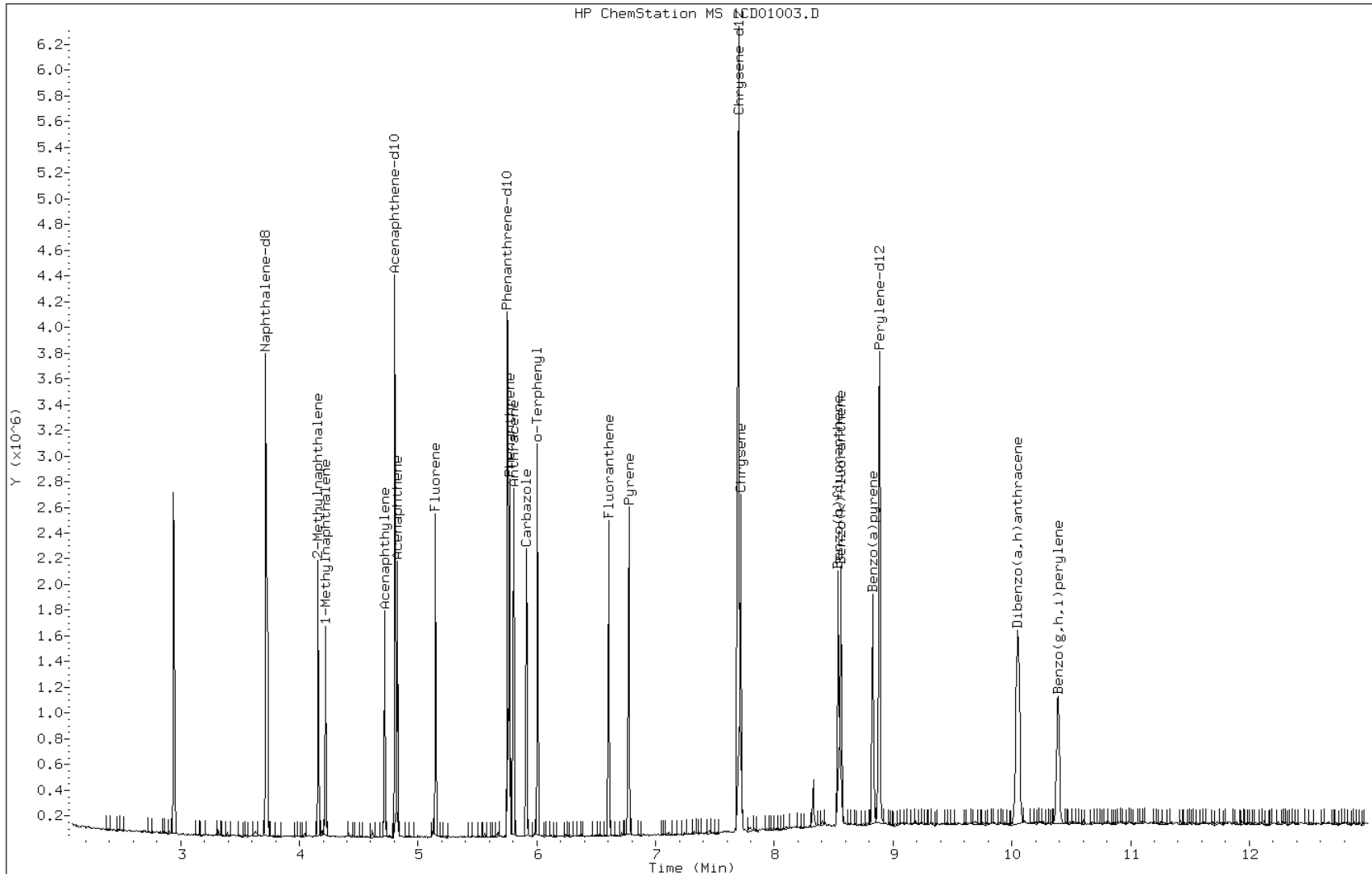
Date: 01-APR-2013 11:31

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC



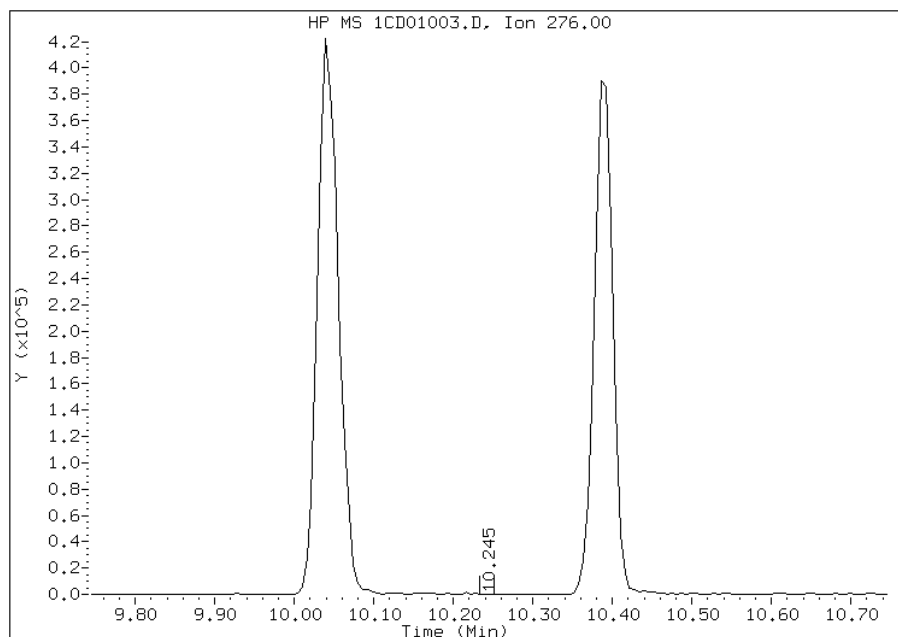


# Manual Integration Report

Data File: 1CD01003.D  
Inj. Date and Time: 01-APR-2013 11:31  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/01/2013

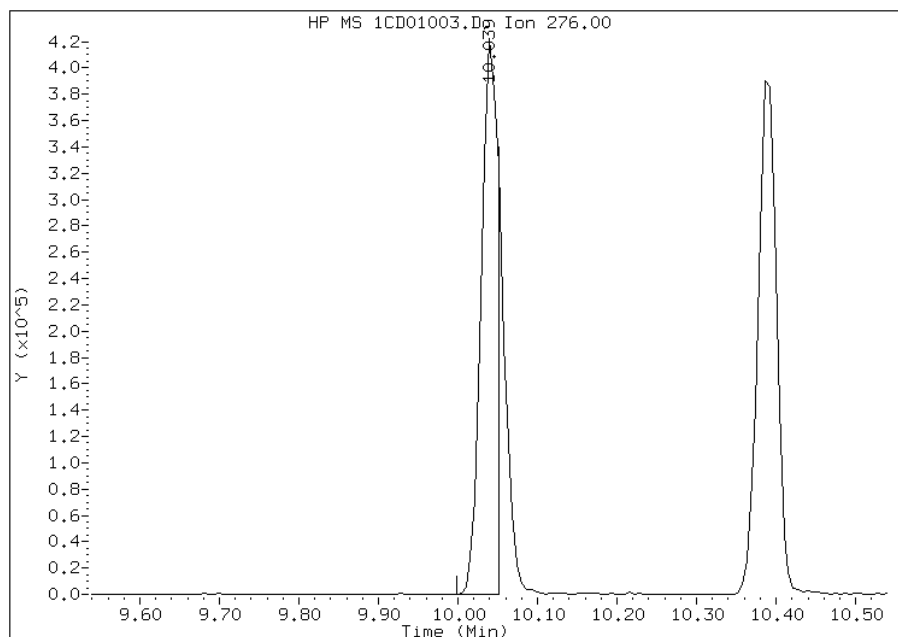
## Processing Integration Results

RT: 10.25  
Response: 160  
Amount: 0  
Conc: 0



## Manual Integration Results

RT: 10.04  
Response: 620361  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 01-Apr-2013 11:49  
Manual Integration Reason: Split Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatle 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D  
 Lab Smp Id: ICV-1448440  
 Inj Date : 22-FEB-2013 14:51  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : ICV-1448440  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m  
 Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 10 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN ( ug/l)	FINAL ( ug/l)
* 1 Naphthalene-d8	136		6.186	6.188	(1.000)	3227519	40.0000		
* 6 Acenaphthene-d10	164		7.861	7.856	(1.000)	1973397	40.0000		
* 9 Phenanthrene-d10	188		9.118	9.114	(1.000)	3226971	40.0000		
\$ 13 o-Terphenyl	230		9.424	9.431	(1.034)	842705	16.8872	17	
* 17 Chrysene-d12	240		11.463	11.464	(1.000)	3262056	40.0000		
* 22 Perylene-d12	264		13.343	13.344	(1.000)	3389756	40.0000		
2 Naphthalene	128		6.204	6.205	(1.003)	1534495	17.7730	18	
3 2-Methylnaphthalene	142		6.903	6.910	(1.116)	990529	18.0102	18	
4 1-Methylnaphthalene	142		6.997	6.999	(1.131)	949525	18.4366	18	
5 Acenaphthylene	152		7.732	7.733	(0.984)	1522763	17.5026	18	
7 Acenaphthene	154		7.884	7.886	(1.003)	892518	16.8249	17	
8 Fluorene	166		8.325	8.326	(1.059)	1091870	17.6166	18	
10 Phenanthrene	178		9.136	9.137	(1.002)	1561459	17.0459	17	
11 Anthracene	178		9.177	9.184	(1.006)	1600546	17.4635	17	
12 Carbazole	167		9.324	9.313	(1.023)	1373599	16.7651	17(M)	
14 Fluoranthene	202		10.117	10.124	(1.110)	1683952	17.6156	18	
15 Pyrene	202		10.305	10.312	(0.899)	1697011	16.7712	17	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL ( ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

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

Data File: 1DB22010.D

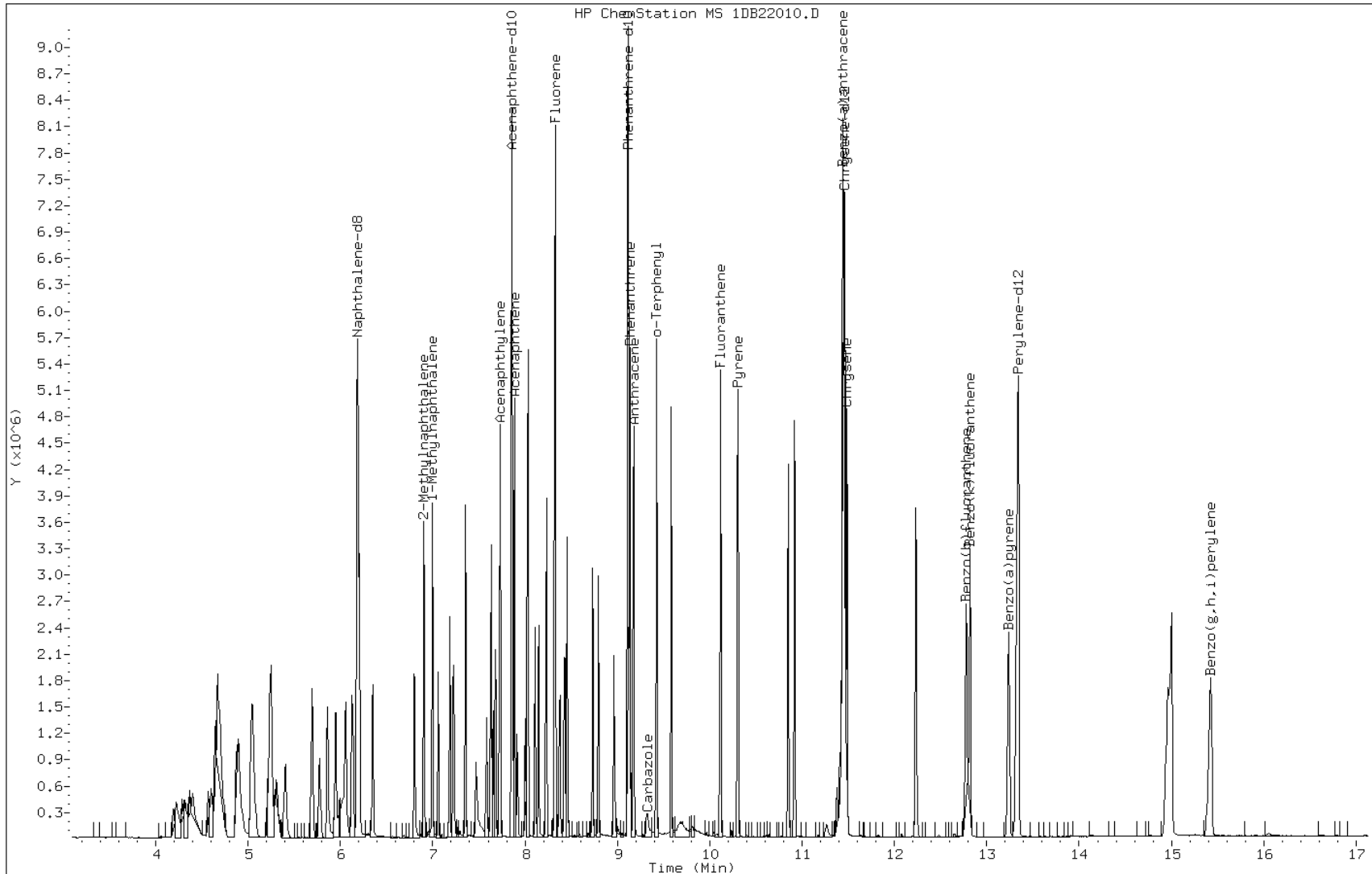
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

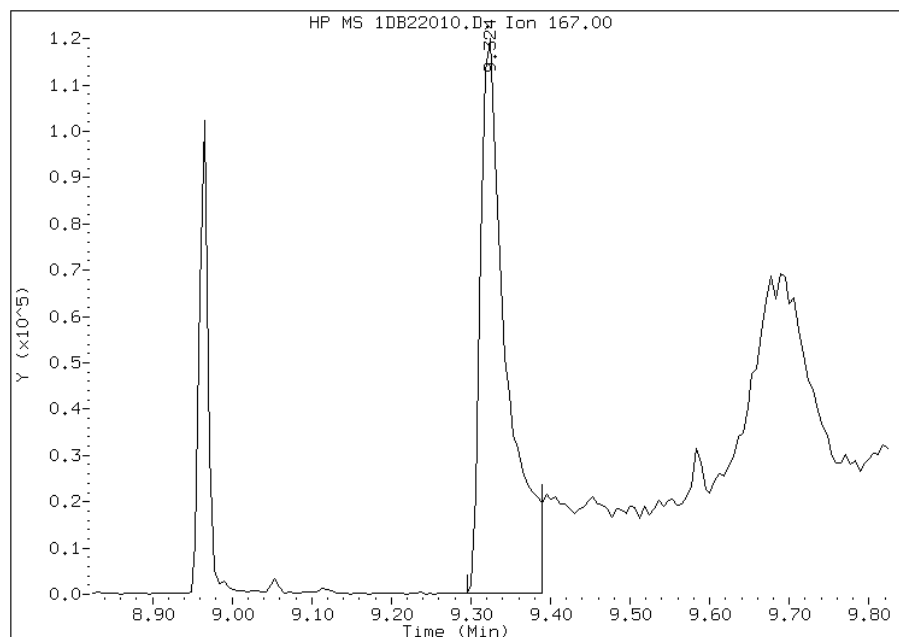


# Manual Integration Report

Data File: 1DB22010.D  
Inj. Date and Time: 22-FEB-2013 14:51  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 12 Carbazole  
CAS #: 86-74-8  
Report Date: 02/22/2013

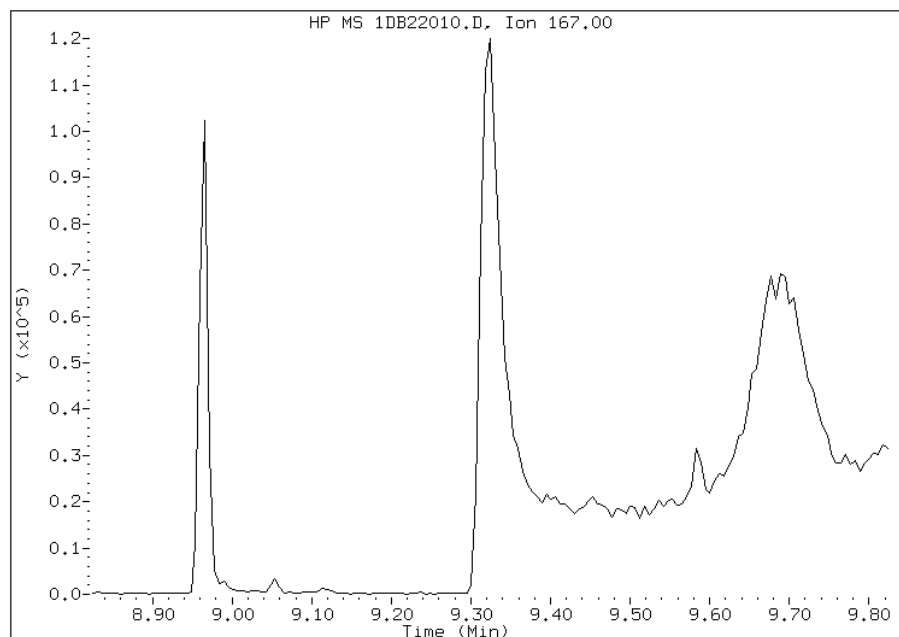
## Processing Integration Results

RT: 9.32  
Response: 270307  
Amount: 3  
Conc: 3



## Manual Integration Results

RT: 9.32  
Response: 1373599  
Amount: 17  
Conc: 17



Manually Integrated By: cantins  
Modification Date: 22-Feb-2013 15:27  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Lab Sample ID: CCVIS 660-136038/9 Calibration Date: 03/28/2013 14:57  
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13  
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28  
 Lab File ID: 1DC28009.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.030	0.0000	19300	20000	-3.7	20.0
2-Methylnaphthalene	Ave	0.6816	0.6826	0.0000	20000	20000	0.1	20.0
1-Methylnaphthalene	Ave	0.6383	0.6307	0.0000	19800	20000	-1.2	20.0
Acenaphthylene	Ave	1.764	1.679	0.0000	19000	20000	-4.8	20.0
Acenaphthene	Ave	1.075	1.005	0.0000	18700	20000	-6.6	20.0
Fluorene	Ave	1.256	1.231	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.135	1.074	0.0000	18900	20000	-5.4	20.0
Anthracene	Ave	1.136	1.088	0.0000	19200	20000	-4.2	20.0
Carbazole	Ave	1.016	0.9355	0.0000	18400	20000	-7.9	20.0
Fluoranthene	Ave	1.185	1.158	0.0000	19500	20000	-2.3	20.0
Pyrene	Ave	1.241	1.170	0.0000	18900	20000	-5.7	20.0
Benzo[a]anthracene	LinF	1.184	1.038	0.0000	19000	20000	-5.2	20.0
Chrysene	Ave	1.131	1.026	0.0000	18200	20000	-9.2	20.0
Benzo[b]fluoranthene	Ave	1.030	0.9837	0.0000	19100	20000	-4.5	20.0
Benzo[k]fluoranthene	Ave	1.078	1.023	0.0000	19000	20000	-5.1	20.0
Benzo[a]pyrene	Ave	1.019	0.996	0.0000	19600	20000	-2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	1.054	0.0000	19400	20000	-3.1	20.0
Dibenz(a,h)anthracene	Ave	1.004	1.001	0.0000	19900	20000	-0.3	20.0
Benzo[g,h,i]perylene	Ave	1.037	1.004	0.0000	19400	20000	-3.2	20.0
o-Terphenyl	Ave	0.6186	0.6180	0.0000	20000	20000	-0.0	20.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28009.D  
Lab Smp Id: CCVIS-1512372  
Inj Date : 28-MAR-2013 14:57  
Operator : SCC Inst ID: BSMSD.i  
Smp Info : CCVIS-1512372  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dfASTPAHi.m  
Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
Als bottle: 9 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	6.102	6.102	(1.000)	3447549	40.0000	(H)
* 6 Acenaphthene-d10	164	7.777	7.777	(1.000)	2210474	40.0000	(H)
* 9 Phenanthrene-d10	188	9.040	9.040	(1.000)	3698385	40.0000	(H)
\$ 13 o-Terphenyl	230	9.351	9.351	(1.034)	1142813	20.0000	20(H)
* 17 Chrysene-d12	240	11.373	11.373	(1.000)	3890381	40.0000	(H)
* 22 Perylene-d12	264	13.223	13.223	(1.000)	4013621	40.0000	(H)
2 Naphthalene	128	6.126	6.126	(1.004)	1775883	20.0000	19(H)
3 2-Methylnaphthalene	142	6.825	6.825	(1.118)	1176660	20.0000	20(H)
4 1-Methylnaphthalene	142	6.919	6.919	(1.134)	1087154	20.0000	20(H)
5 Acenaphthylene	152	7.653	7.653	(0.984)	1856038	20.0000	19(H)
7 Acenaphthene	154	7.806	7.806	(1.004)	1110279	20.0000	19(H)
8 Fluorene	166	8.247	8.247	(1.060)	1360386	20.0000	20(H)
10 Phenanthrene	178	9.064	9.064	(1.003)	1986764	20.0000	19(H)
11 Anthracene	178	9.099	9.099	(1.006)	2012789	20.0000	19(H)
12 Carbazole	167	9.240	9.240	(1.022)	1729871	20.0000	18(H)
14 Fluoranthene	202	10.045	10.045	(1.111)	2141146	20.0000	20(H)
15 Pyrene	202	10.233	10.233	(0.900)	2275229	20.0000	19(H)
16 Benzo(a)anthracene	228	11.349	11.349	(0.998)	2018846	20.0000	19(H)
18 Chrysene	228	11.396	11.396	(1.002)	1996328	20.0000	18(H)
19 Benzo(b)fluoranthene	252	12.671	12.671	(0.958)	1974150	20.0000	19(H)
20 Benzo(k)fluoranthene	252	12.712	12.712	(0.961)	2053634	20.0000	19(H)
21 Benzo(a)pyrene	252	13.124	13.124	(0.992)	1999552	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.827	14.827	(1.121)	2114905	20.0000	19(MH)
24 Dibenzo(a,h)anthracene	278	14.863	14.863	(1.124)	2008289	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.280	15.280	(1.156)	2014741	20.0000	19(H)

QC Flag Legend

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



Data File: 1DC28009.D

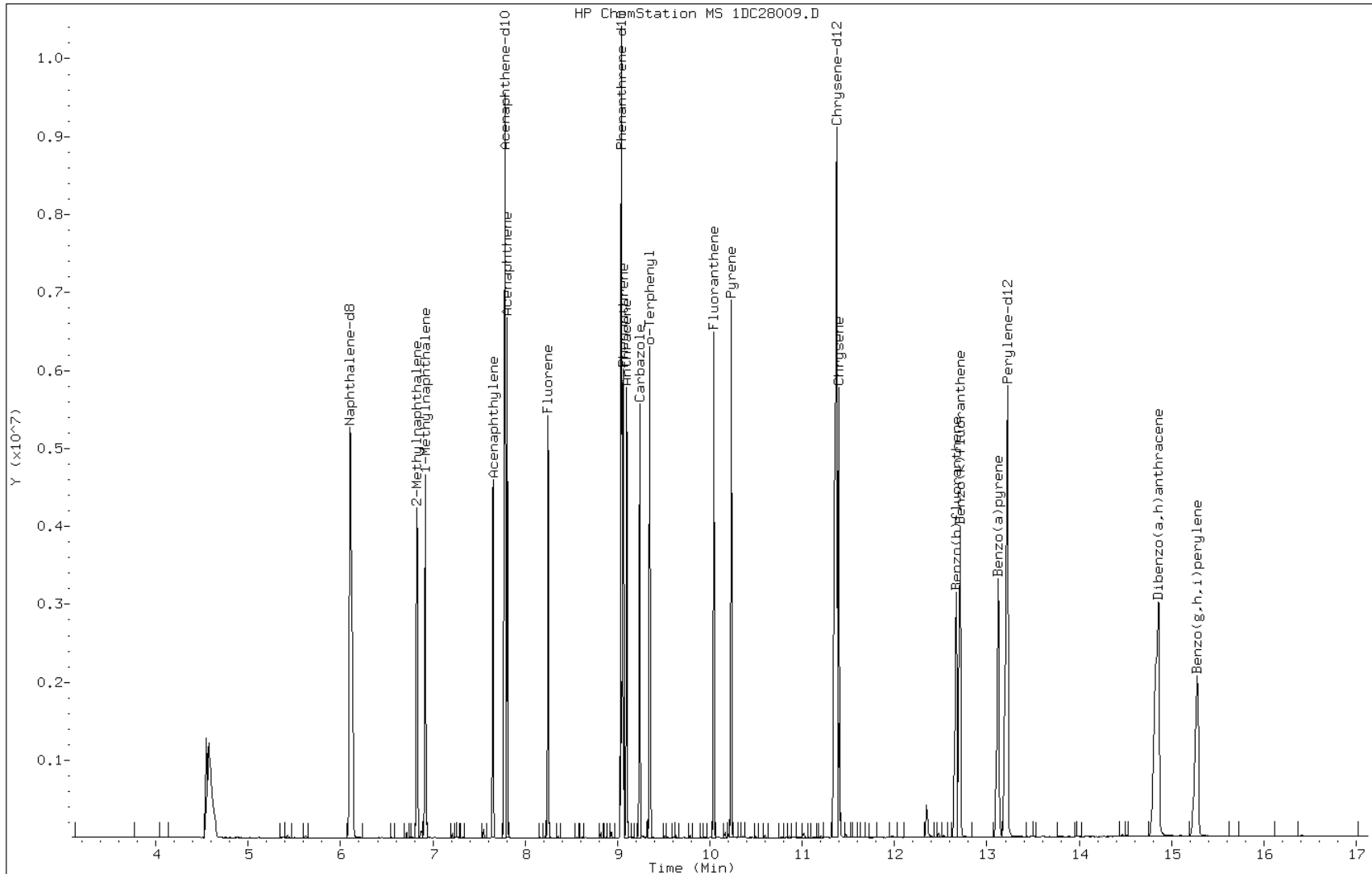
Date: 28-MAR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

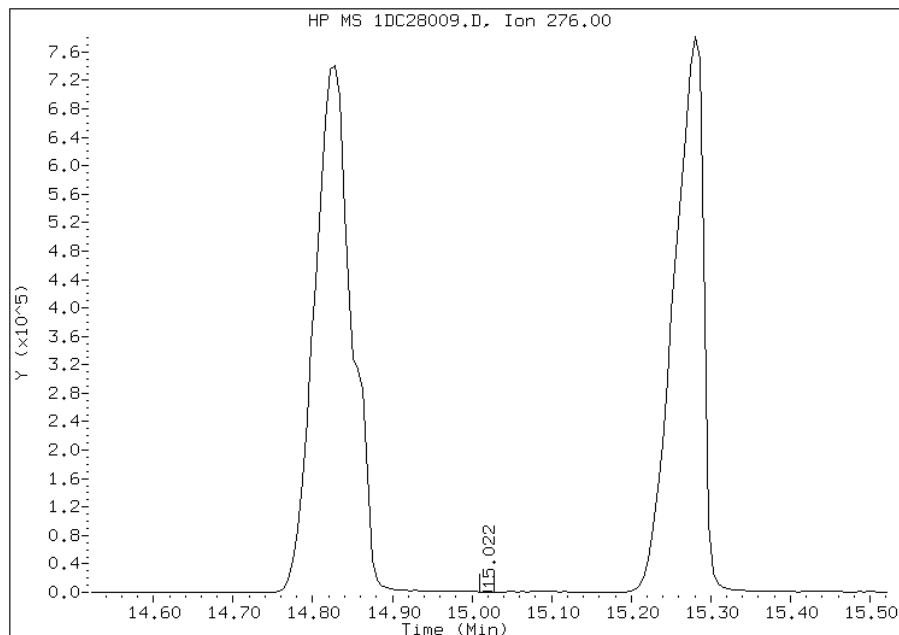


Manual Integration Report

Data File: 1DC28009.D  
Inj. Date and Time: 28-MAR-2013 14:57  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

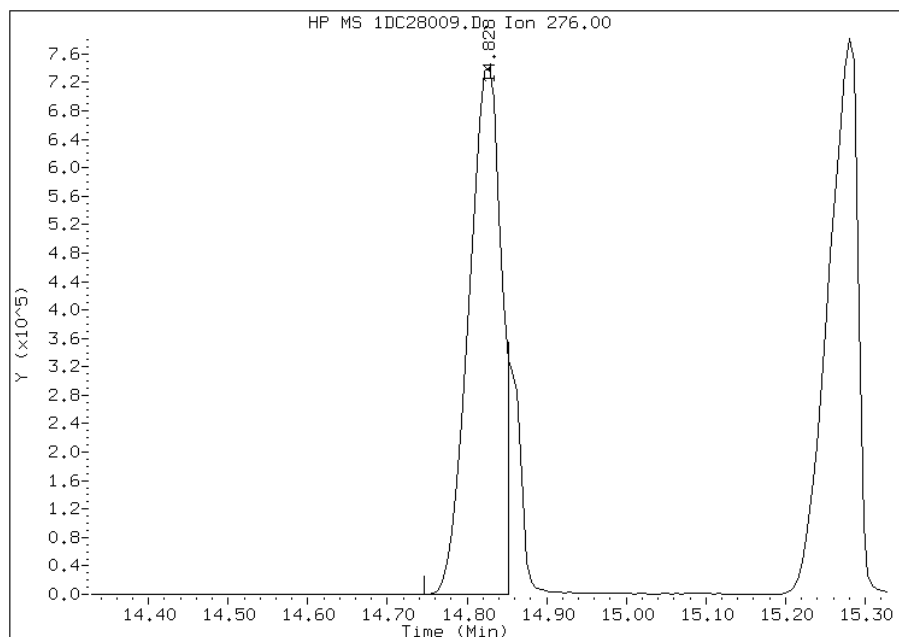
Processing Integration Results

RT: 15.02  
Response: 528  
Amount: 0  
Conc: 0



Manual Integration Results

RT: 14.83  
Response: 2114905  
Amount: 19  
Conc: 19



Manually Integrated By: cantins  
Modification Date: 28-Mar-2013 15:22  
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-FEB-2013 11:41  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.404	7.469	-0.065	198	73440			50.00-	0.00	100.00
7.404	7.469	-0.065	51	31096			10.00-	80.00	42.34
7.404	7.469	-0.065	68	471			0.00-	2.00	1.08
7.404	7.469	-0.065	69	43512			0.00-	0.00	59.25
7.404	7.469	-0.065	70	192			0.00-	2.00	0.44
7.404	7.469	-0.065	127	39368			10.00-	80.00	53.61
7.404	7.469	-0.065	197	733			0.00-	2.00	1.00
7.404	7.469	-0.065	442	38240			50.00-	0.00	52.07
7.404	7.469	-0.065	199	6330			5.00-	9.00	8.62
7.404	7.469	-0.065	275	14104			10.00-	60.00	19.20
7.404	7.469	-0.065	365	1462			1.00-	0.00	1.99
7.404	7.469	-0.065	441	5496			0.01-	99.99	86.06
7.404	7.469	-0.065	443	6386			15.00-	24.00	16.70

Data File: 1CB22002.D

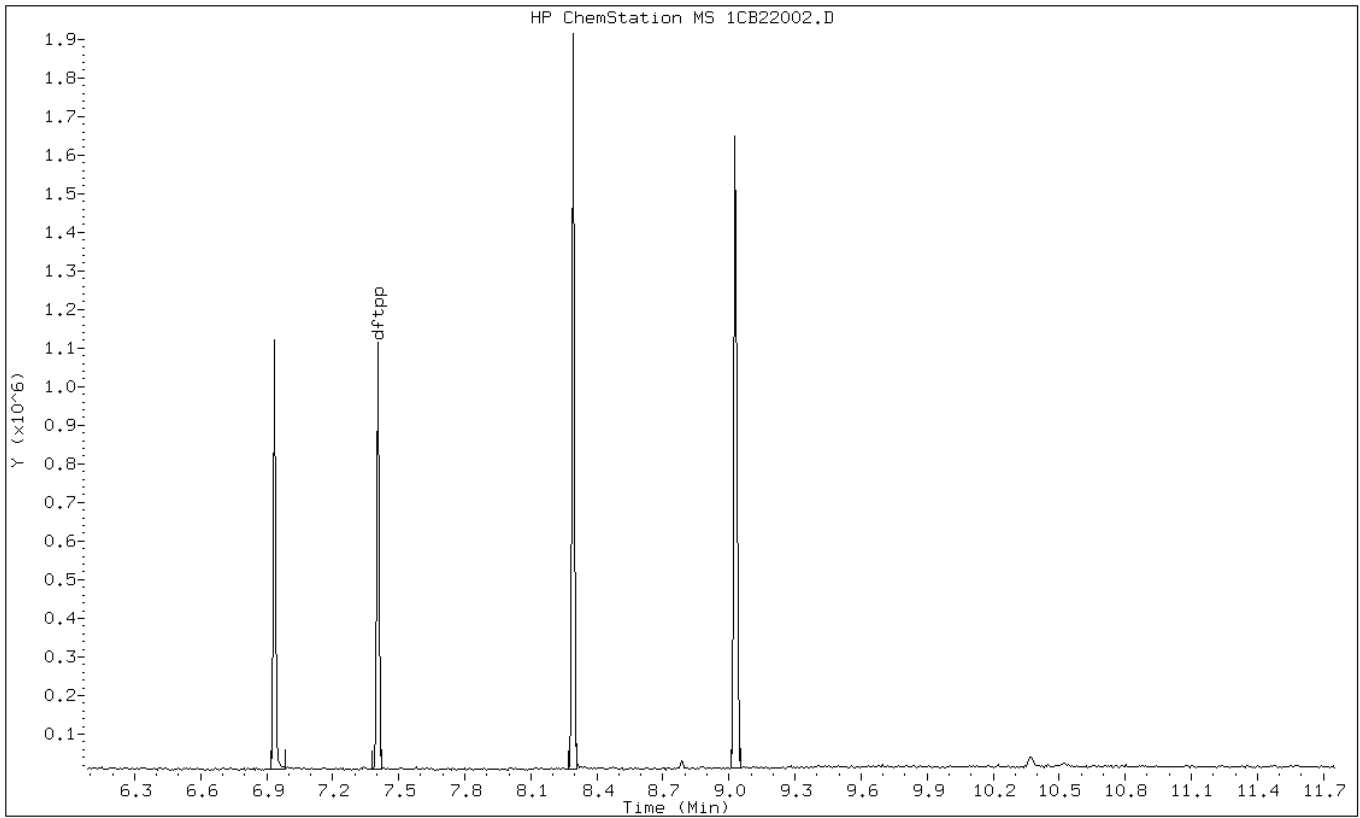
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

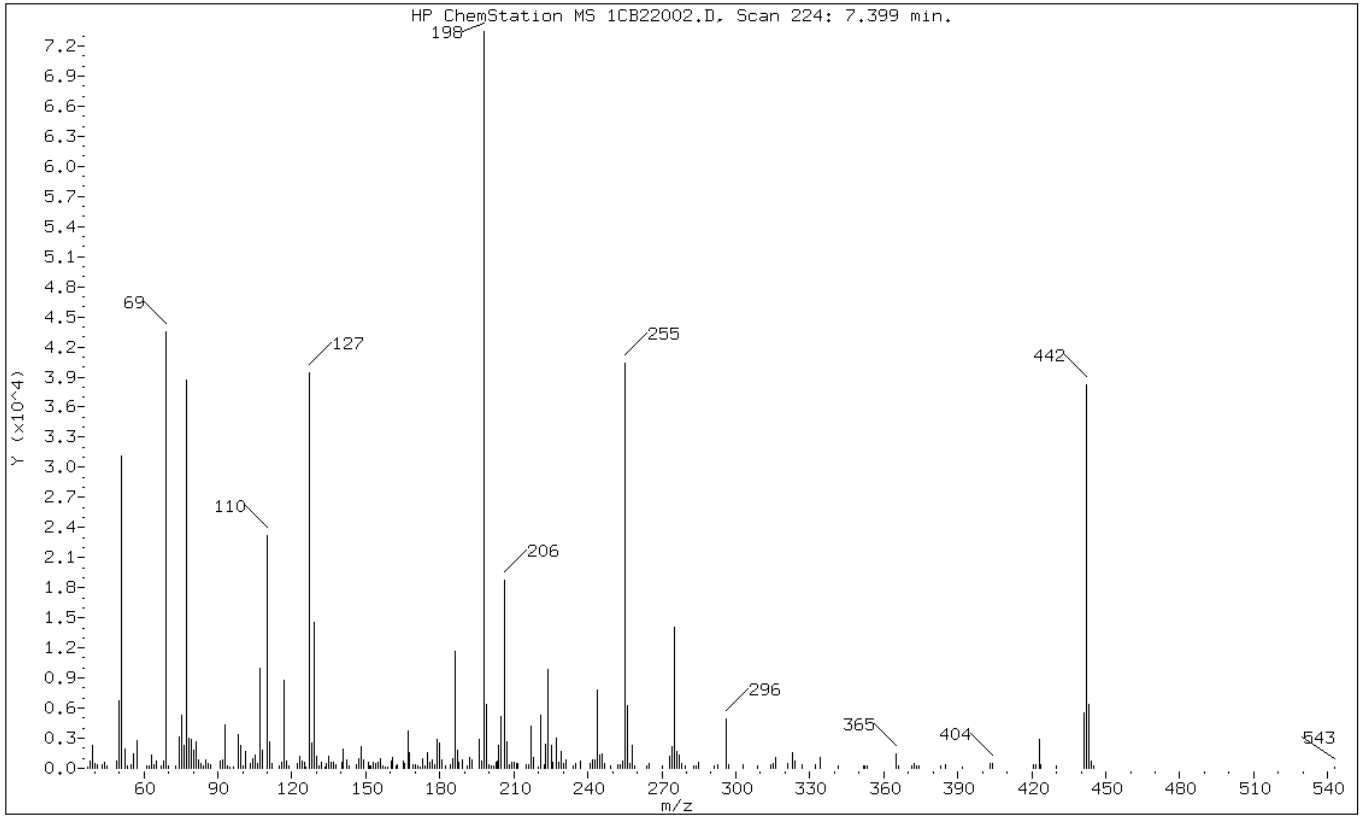
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 ( 1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 ( 0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 ( 16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213\_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 27-MAR-2013 10:18  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.322	7.469	-0.147	198	111740			50.00-	0.00	100.00
7.322	7.469	-0.147	51	43188			10.00-	80.00	38.65
7.322	7.469	-0.147	68	1108			0.00-	2.00	1.99
7.322	7.469	-0.147	69	55704			0.00-	0.00	49.85
7.322	7.469	-0.147	70	455			0.00-	2.00	0.82
7.322	7.469	-0.147	127	53208			10.00-	80.00	47.62
7.322	7.469	-0.147	197	1183			0.00-	2.00	1.06
7.322	7.469	-0.147	442	61668			50.00-	0.00	55.19
7.322	7.469	-0.147	199	6945			5.00-	9.00	6.22
7.322	7.469	-0.147	275	20541			10.00-	60.00	18.38
7.322	7.469	-0.147	365	2993			1.00-	0.00	2.68
7.322	7.469	-0.147	441	9207			0.01-	99.99	68.06
7.322	7.469	-0.147	443	13528			15.00-	24.00	21.94



Data File: 1CC27002.D

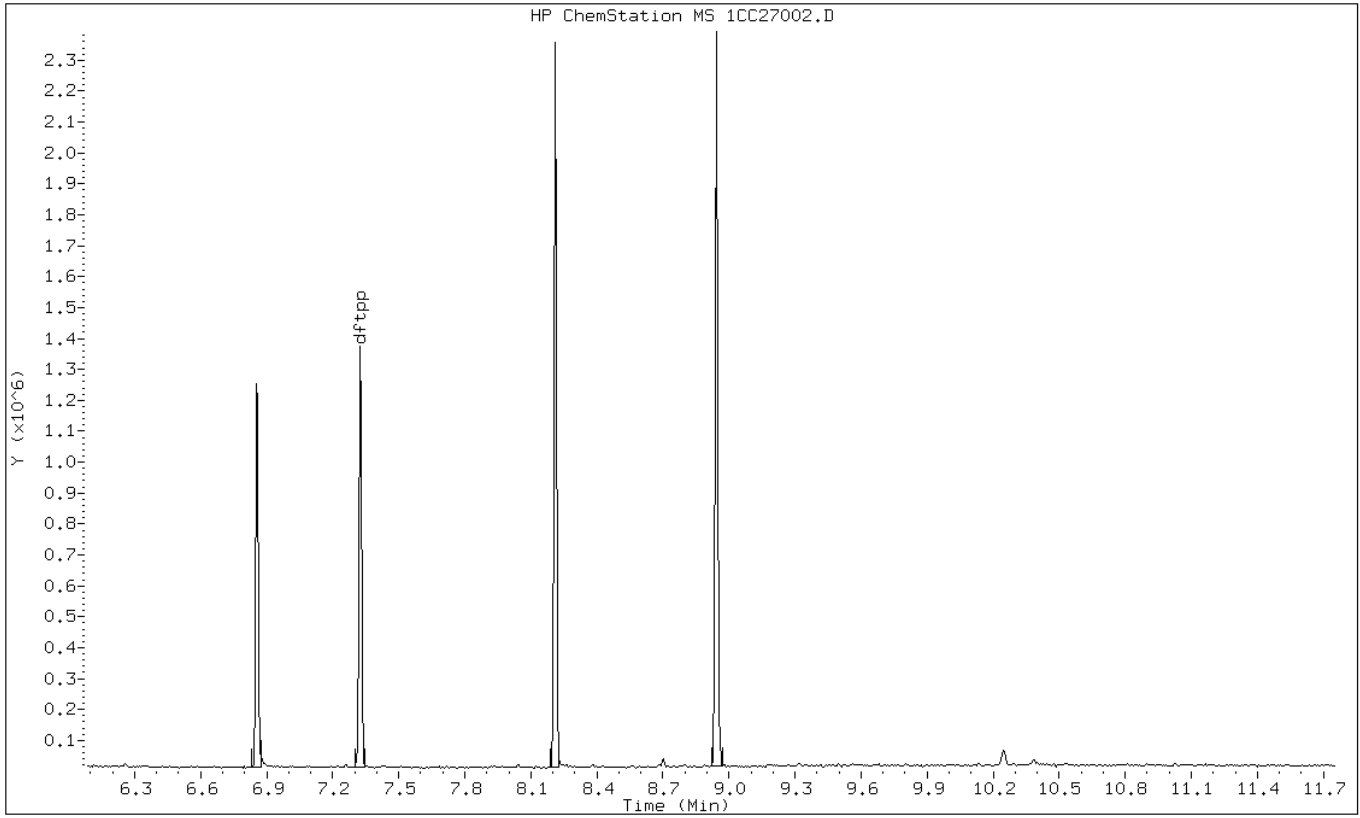
Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

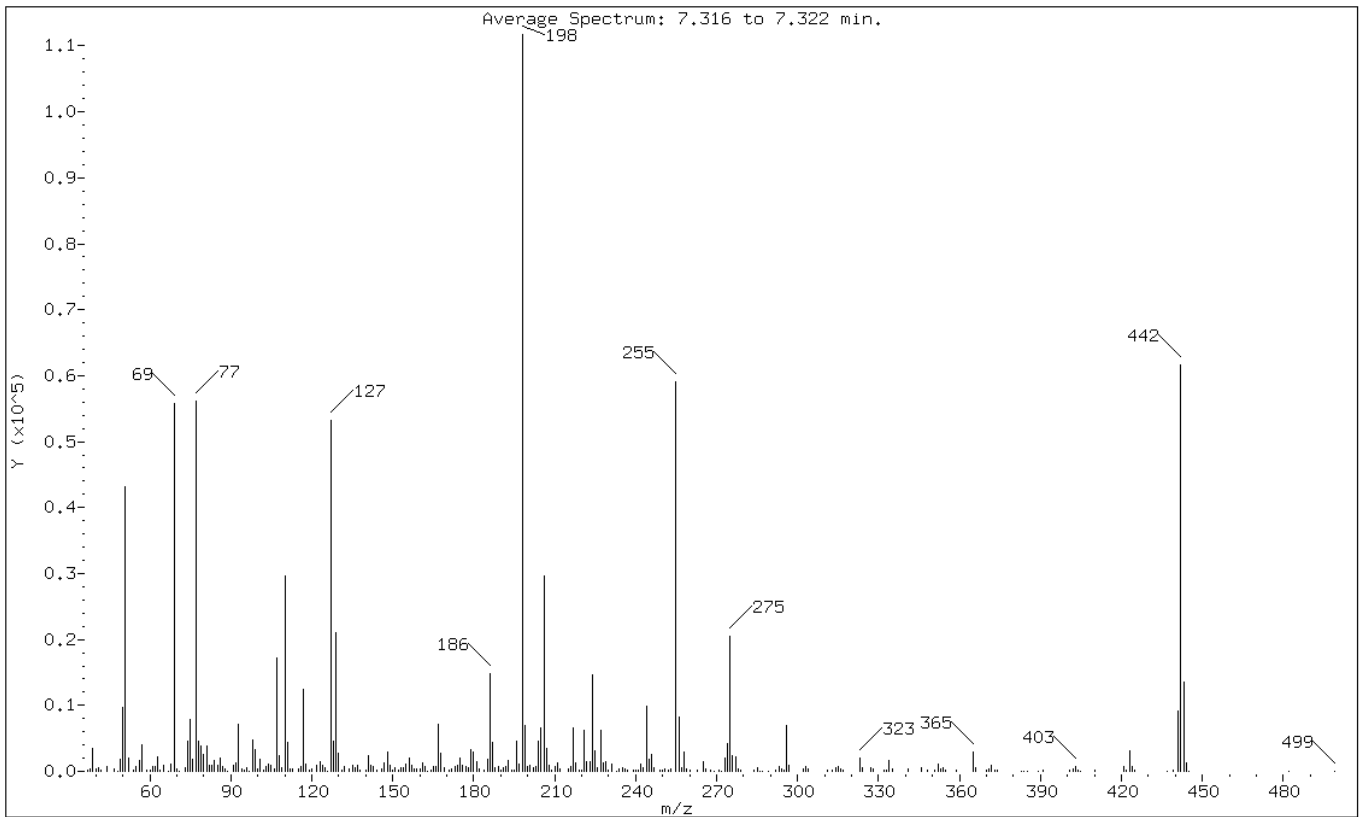
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	38.65
68	Less than 2.00% of mass 69	0.99 ( 1.99)
69	Mass 69 relative abundance	49.85
70	Less than 2.00% of mass 69	0.41 ( 0.82)
127	10.00 - 80.00% of mass 198	47.62
197	Less than 2.00% of mass 198	1.06
442	Greater than 50.00% of mass 198	55.19
199	5.00 - 9.00% of mass 198	6.22
275	10.00 - 60.00% of mass 198	18.38
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	8.24
443	15.00 - 24.00% of mass 442	12.11 ( 21.94)

Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D

Spectrum: Average Spectrum: 7.316 to 7.322 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	110	118.00	1074	196.00	4498	279.00	128
38.00	331	119.00	105	197.00	1183	284.00	166
39.00	3391	120.00	317	198.00	111736	285.00	502
40.00	309	122.00	857	199.00	6945	286.00	85
41.00	524	123.00	1424	200.00	721	287.00	85
42.00	189	124.00	875	201.00	921	289.00	91
44.00	815	125.00	520	202.00	513	292.00	200
47.00	287	126.00	89	203.00	673	293.00	656
48.00	83	127.00	53208	204.00	4538	294.00	330
49.00	1900	128.00	4497	205.00	6576	295.00	263
50.00	9727	129.00	21056	206.00	29576	296.00	7021
51.00	43184	130.00	2658	207.00	3429	297.00	839
52.00	2012	131.00	214	208.00	897	302.00	316
54.00	118	132.00	658	209.00	188	303.00	678
55.00	686	134.00	446	210.00	644	304.00	275
56.00	1674	135.00	949	211.00	1222	311.00	136
57.00	3990	136.00	489	212.00	344	313.00	120
59.00	200	137.00	972	215.00	302	314.00	575
60.00	102	138.00	183	216.00	708	315.00	710
61.00	688	140.00	166	217.00	6495	316.00	451
62.00	643	141.00	2456	218.00	1219	317.00	241
63.00	2108	142.00	826	219.00	209	323.00	2034
64.00	198	143.00	688	220.00	203	324.00	622
65.00	966	144.00	107	221.00	6220	327.00	594
67.00	85	146.00	409	222.00	1372	328.00	314
68.00	1108	147.00	1369	223.00	1554	332.00	256
69.00	55704	148.00	2888	224.00	14710	333.00	127
70.00	455	149.00	863	225.00	3045	334.00	1727
71.00	86	150.00	204	226.00	550	335.00	353
73.00	563	151.00	582	227.00	6149	341.00	409
74.00	4574	152.00	137	228.00	1321	346.00	635
75.00	7776	153.00	604	229.00	1434	348.00	124
76.00	1808	154.00	530	230.00	121	351.00	204
77.00	56120	155.00	1183	231.00	1154	352.00	1050
78.00	4636	156.00	1982	233.00	80	353.00	393
79.00	3764	157.00	960	234.00	360	354.00	628
80.00	2509	158.00	367	235.00	584	355.00	186
81.00	3783	159.00	393	236.00	304	359.00	231
82.00	859	160.00	416	237.00	247	365.00	2993
83.00	944	161.00	1195	239.00	158	366.00	522

84.00	1643	162.00	709	240.00	113	370.00	103
85.00	870	163.00	87	241.00	244	371.00	320
86.00	2033	164.00	228	242.00	1022	372.00	962
87.00	775	165.00	812	243.00	614	373.00	203
88.00	439	166.00	759	244.00	9836	374.00	183
89.00	75	167.00	7152	245.00	1917	383.00	80
91.00	935	168.00	2718	246.00	2545	384.00	82
92.00	1197	169.00	480	247.00	639	385.00	84
93.00	7053	171.00	167	249.00	238	389.00	82
94.00	371	172.00	421	250.00	128	391.00	217
95.00	124	173.00	723	251.00	349	401.00	212
96.00	551	174.00	828	252.00	113	402.00	406
97.00	89	175.00	2017	253.00	373	403.00	666
98.00	4715	176.00	960	255.00	59088	404.00	241
99.00	3308	177.00	807	256.00	8154	405.00	86
100.00	286	178.00	485	257.00	616	410.00	110
101.00	1852	179.00	3326	258.00	3007	421.00	665
102.00	207	180.00	2968	259.00	453	422.00	202
103.00	645	181.00	1541	260.00	126	423.00	3022
104.00	1173	182.00	302	263.00	166	424.00	648
105.00	938	184.00	199	265.00	1416	425.00	235
106.00	416	185.00	1914	266.00	311	437.00	81
107.00	17128	186.00	14888	268.00	116	439.00	98
108.00	2326	187.00	4450	269.00	83	441.00	9207
109.00	491	188.00	490	271.00	106	442.00	61664
110.00	29592	189.00	750	272.00	84	443.00	13528
111.00	4467	190.00	193	273.00	2008	444.00	1364
112.00	401	191.00	634	274.00	4160	445.00	85
113.00	284	192.00	814	275.00	20536	482.00	77
115.00	320	193.00	1721	276.00	2395	499.00	85
116.00	747	194.00	178	277.00	2145		
117.00	12356	195.00	132	278.00	447		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 28-MAR-2013 11:42  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.322	7.469	-0.147	198	175680			50.00-	0.00	100.00
7.322	7.469	-0.147	51	57992			10.00-	80.00	33.01
7.322	7.469	-0.147	68	1045			0.00-	2.00	1.38
7.322	7.469	-0.147	69	75992			0.00-	0.00	43.26
7.322	7.469	-0.147	70	578			0.00-	2.00	0.76
7.322	7.469	-0.147	127	84384			10.00-	80.00	48.03
7.322	7.469	-0.147	197	1547			0.00-	2.00	0.88
7.322	7.469	-0.147	442	160576			50.00-	0.00	91.40
7.322	7.469	-0.147	199	12476			5.00-	9.00	7.10
7.322	7.469	-0.147	275	41464			10.00-	60.00	23.60
7.322	7.469	-0.147	365	7644			1.00-	0.00	4.35
7.322	7.469	-0.147	441	23184			0.01-	99.99	63.51
7.322	7.469	-0.147	443	36504			15.00-	24.00	22.73

Data File: 1CC28002.D

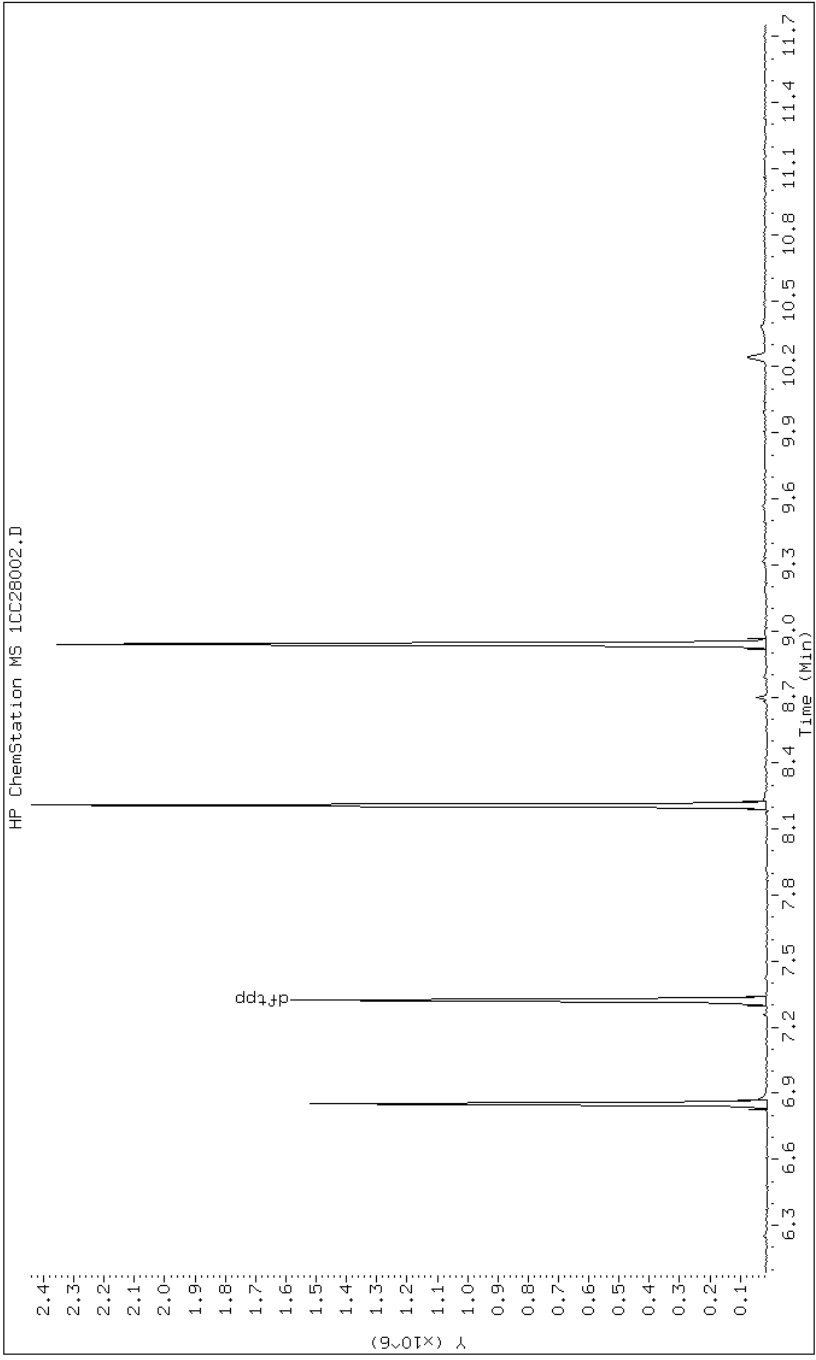
Date: 28-MAR-2013 11:42

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

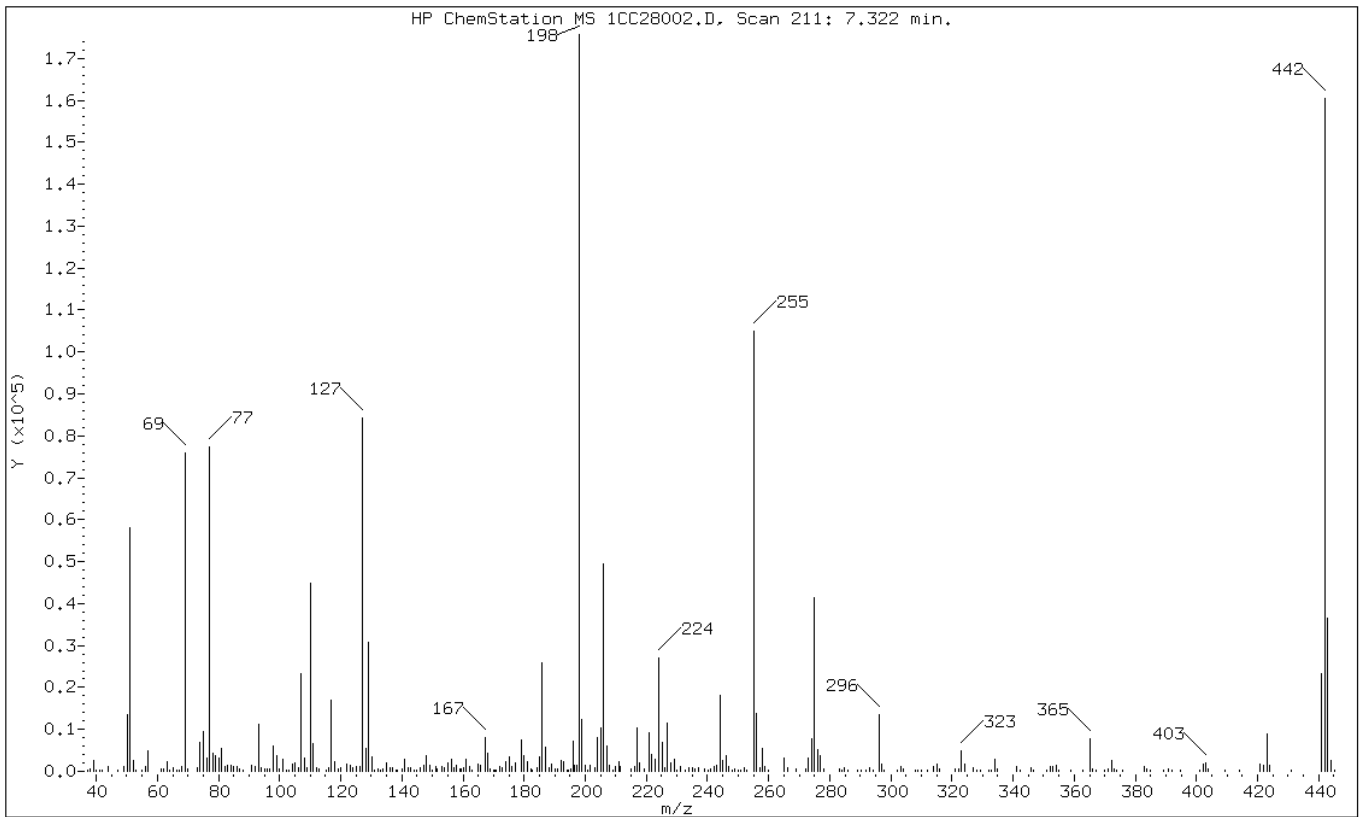
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.01
68	Less than 2.00% of mass 69	0.59 ( 1.38)
69	Mass 69 relative abundance	43.26
70	Less than 2.00% of mass 69	0.33 ( 0.76)
127	10.00 - 80.00% of mass 198	48.03
197	Less than 2.00% of mass 198	0.88
442	Greater than 50.00% of mass 198	91.40
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	23.60
365	Greater than 1.00% of mass 198	4.35
441	Present, but less than mass 443	13.20
443	15.00 - 24.00% of mass 442	20.78 ( 22.73)

Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D

Spectrum: HP ChemStation MS 1CC28002.D, Scan 211: 7.322 min.

Location of Maximum: 198.00

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	294	125.10	1116	197.10	1547	291.80	246
38.10	630	126.20	1154	198.00	175680	293.00	847
39.20	2603	127.10	84384	199.00	12476	294.10	212
40.00	408	128.10	5411	200.10	1313	296.00	13416
41.20	348	129.00	30832	200.90	187	297.00	1681
42.00	193	130.10	3565	201.60	1567	297.90	256
44.00	1093	131.10	373	203.20	825	302.10	338
46.90	181	132.10	511	204.10	8129	303.20	1156
49.10	1140	132.90	271	205.00	10400	304.10	460
50.10	13428	133.80	674	206.10	49432	308.00	168
51.10	57992	135.10	2085	207.00	6166	308.90	285
52.10	2487	136.00	767	208.00	1401	310.10	164
52.80	156	137.00	942	209.20	383	311.90	236
55.10	337	138.20	176	210.00	1251	314.00	1043
56.10	1126	138.70	221	211.00	2371	315.00	1865
57.10	4979	140.20	712	211.60	1259	316.00	518
61.10	544	141.00	2761	215.10	588	321.20	550
62.10	599	142.00	977	216.00	1064	322.10	603
63.10	2258	143.00	796	217.00	10305	323.00	4944
64.10	174	143.90	380	217.80	2070	324.00	1585
65.00	871	144.90	211	219.30	689	327.00	810
66.20	154	146.10	911	221.00	9334	328.20	265
67.10	402	147.00	1554	221.60	3971	329.20	358
68.10	1045	148.00	3782	222.90	2906	332.10	240
69.10	75992	149.00	1427	224.10	27024	332.70	164
70.10	578	150.00	283	225.10	6866	334.10	2862
73.10	834	151.10	1130	226.00	835	334.90	636
74.00	6873	151.70	435	227.00	11564	341.10	1069
75.10	9534	152.90	1041	228.00	1915	342.30	170
76.10	3183	154.00	728	229.00	2855	345.90	742
77.10	77320	155.00	2109	229.90	225	346.70	303
78.20	4278	156.10	2889	231.10	1135	351.00	263
79.00	3766	157.00	929	232.80	280	352.10	1277
80.00	3178	157.90	1527	234.10	813	353.00	1175
81.00	5589	159.00	550	235.00	911	354.10	1455
82.00	1067	159.60	475	235.90	646	354.80	277
83.10	1403	160.10	940	237.00	907	359.00	193
84.00	1332	160.90	2762	238.90	485	362.80	172
85.00	1182	162.10	1195	240.20	153	365.00	7644
86.10	1187	163.10	263	240.90	601	366.00	698



87.00	553	165.10	1735	242.00	1243	367.10	153
88.00	353	165.90	1342	242.90	1417	369.80	320
91.00	1495	167.10	8176	244.00	18256	371.10	439
92.10	1101	168.00	4307	245.00	2490	372.10	2645
93.00	11102	169.00	492	246.00	3736	372.90	510
94.00	864	170.00	314	247.00	1048	373.80	366
95.10	470	170.40	307	248.00	421	375.90	152
96.10	689	171.00	331	248.90	554	383.00	1095
96.90	564	172.00	1053	250.20	320	383.80	440
98.00	5969	173.00	960	250.70	240	384.80	391
99.00	3600	174.10	2229	252.20	871	389.40	153
100.00	498	175.10	3576	252.90	284	390.80	613
101.00	2743	176.10	1123	255.00	104920	392.00	154
102.10	160	177.10	1950	256.10	13841	394.90	212
102.90	364	179.00	7514	257.20	1001	401.10	308
104.10	1615	180.00	3880	258.00	5520	402.10	1695
104.90	2147	181.10	2231	258.90	1271	403.10	2087
106.00	933	182.10	464	259.90	325	404.00	687
107.10	23360	182.80	153	265.00	3276	409.20	289
108.00	3118	184.20	929	266.10	756	414.20	158
109.10	833	185.10	3566	269.10	572	420.90	1605
110.10	44752	186.00	25984	272.10	460	422.00	1469
111.10	6663	187.10	5816	273.00	3273	423.00	8780
112.00	991	188.20	753	274.00	7767	423.90	1316
113.00	509	189.00	1701	275.00	41464	431.10	306
115.30	177	190.00	461	276.10	5206	441.00	23184
116.10	741	190.80	566	277.00	3602	442.00	160576
117.00	17008	192.00	2454	277.90	475	443.00	36504
118.00	2311	193.00	2393	283.00	610	444.10	2482
119.10	551	193.90	408	284.10	393	445.20	409
120.10	775	194.60	180	284.90	769		
122.00	1695	195.20	647	286.10	227		
123.10	1318	196.00	7215	288.90	205		
123.80	818	196.60	1396	290.20	151		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 01-APR-2013 11:14  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\c-dftpp198.m  
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.316	7.469	-0.153	198	202560			50.00-	0.00	100.00
7.316	7.469	-0.153	51	63952			10.00-	80.00	31.57
7.316	7.469	-0.153	68	1419			0.00-	2.00	1.60
7.316	7.469	-0.153	69	88712			0.00-	0.00	43.80
7.316	7.469	-0.153	70	356			0.00-	2.00	0.40
7.316	7.469	-0.153	127	93064			10.00-	80.00	45.94
7.316	7.469	-0.153	197	0	0.0	0.0	0.00-	2.00	0.00
7.316	7.469	-0.153	442	190336			50.00-	0.00	93.97
7.316	7.469	-0.153	199	13258			5.00-	9.00	6.55
7.316	7.469	-0.153	275	50288			10.00-	60.00	24.83
7.316	7.469	-0.153	365	7925			1.00-	0.00	3.91
7.316	7.469	-0.153	441	30240			0.01-	99.99	81.24
7.316	7.469	-0.153	443	37224			15.00-	24.00	19.56

Data File: 1CD01002.D

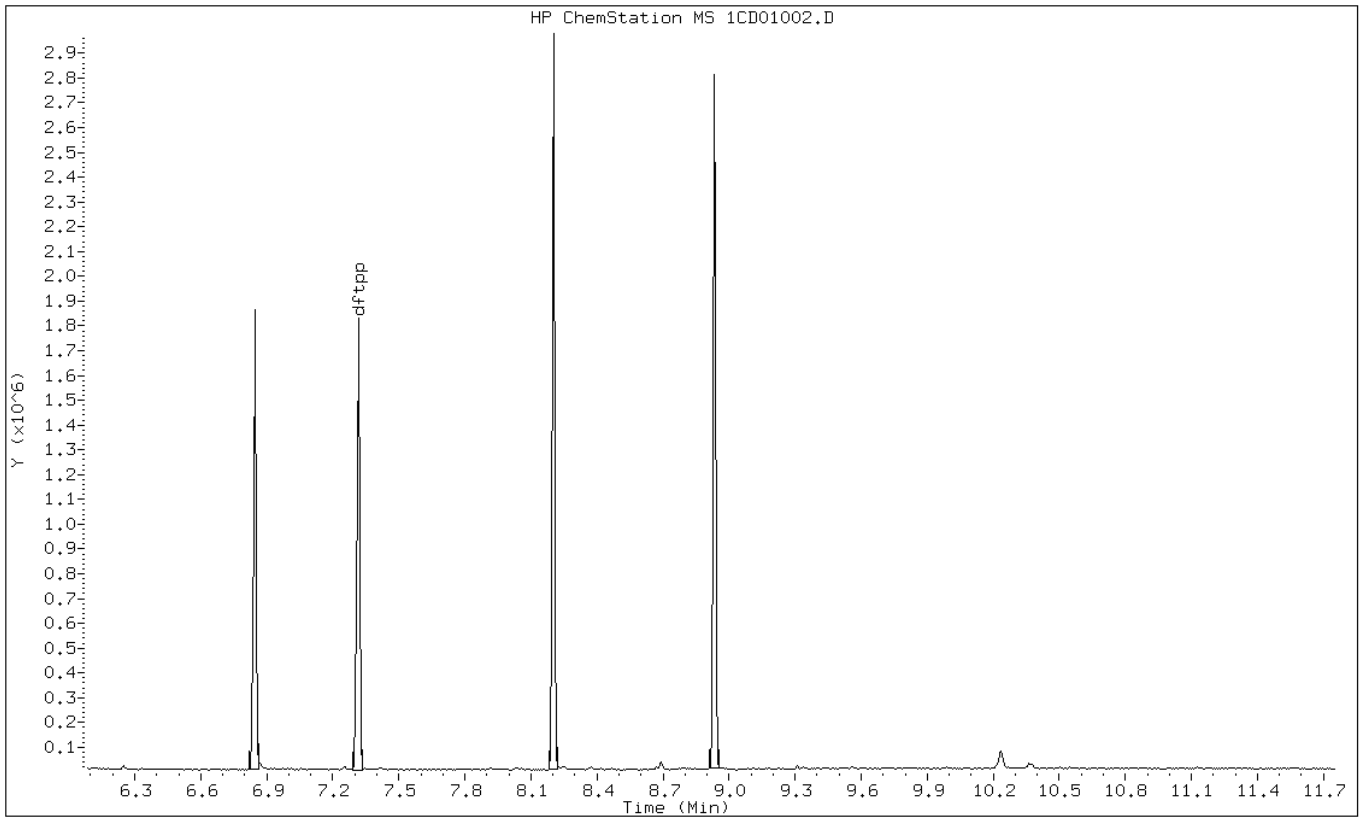
Date: 01-APR-2013 11:14

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CD01002.D

Date: 01-APR-2013 11:14

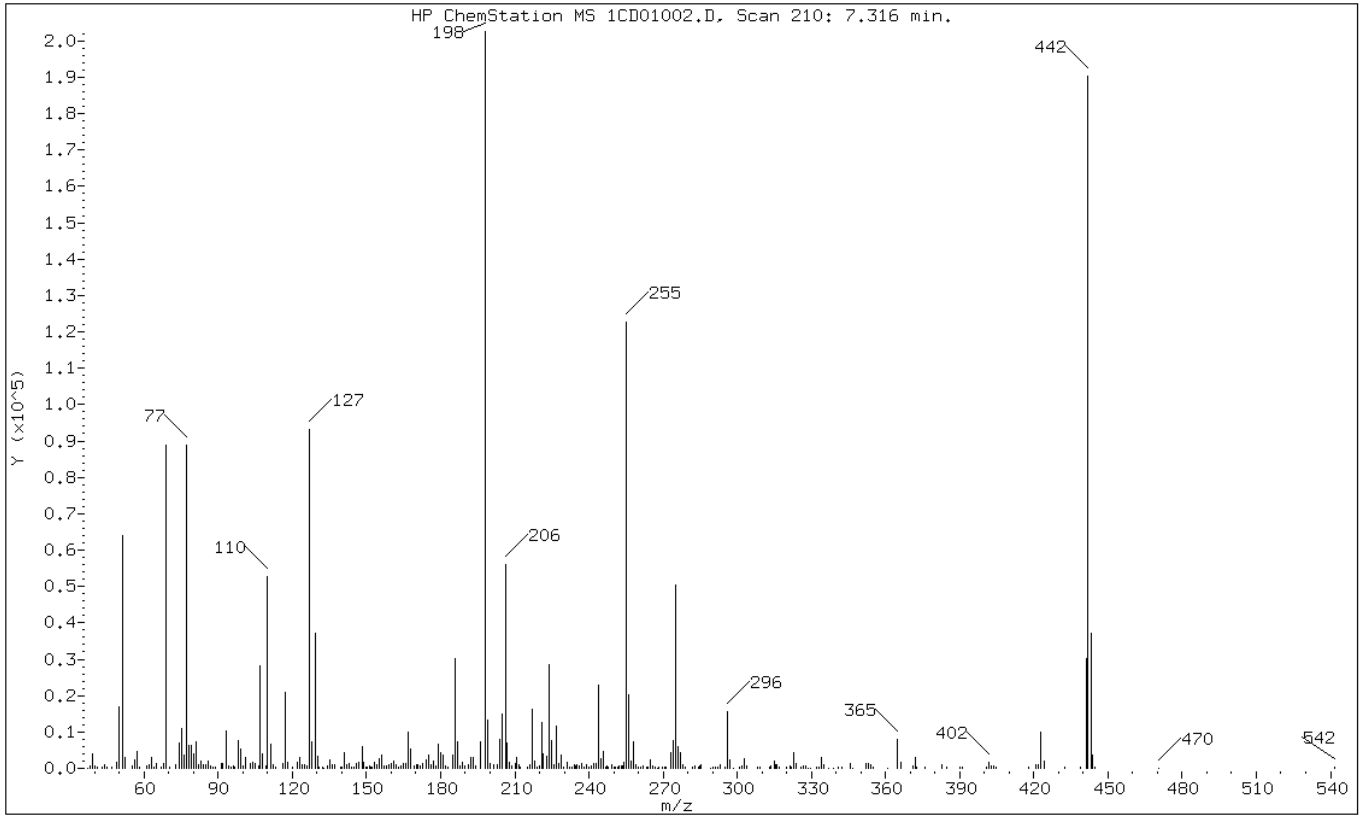
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.70 ( 1.60)
69	Mass 69 relative abundance	43.80
70	Less than 2.00% of mass 69	0.18 ( 0.40)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	93.97
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 60.00% of mass 198	24.83
365	Greater than 1.00% of mass 198	3.91
441	Present, but less than mass 443	14.93
443	15.00 - 24.00% of mass 442	18.38 ( 19.56)

Data File: 1CD01002.D

Date: 01-APR-2013 11:14

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01002.D

Spectrum: HP ChemStation MS 1CD01002.D, Scan 210: 7.316 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	153	130.10	3353	210.20	1195	289.00	151
38.10	546	130.80	370	210.90	2894	290.00	313
39.10	3912	132.30	175	211.70	908	291.00	224
40.00	597	132.70	165	212.30	336	292.10	403
41.00	245	134.00	509	214.90	333	292.90	895
43.10	190	135.10	2404	216.00	988	295.00	420
44.10	1029	136.00	1137	217.00	16300	296.10	15666
44.90	348	137.00	960	218.00	2090	296.90	2296
46.90	166	139.80	351	218.90	253	298.30	150
48.90	1495	140.10	351	220.10	793	300.90	274
50.10	16792	140.90	4251	221.00	12706	302.00	585
51.10	63952	142.00	838	221.60	4045	303.00	2538
52.10	2921	143.00	1405	223.00	3416	303.90	516
55.10	664	144.10	195	224.00	28448	308.00	464
56.10	2419	145.10	233	225.10	7698	309.10	238
57.10	4564	146.10	1342	225.80	996	313.00	222
58.00	370	146.90	1823	227.00	11721	313.70	657
60.90	663	148.10	6043	227.90	1420	315.00	1924
62.10	941	149.00	1597	229.00	3775	315.70	878
63.10	3032	149.80	261	229.90	375	316.00	900
63.90	359	150.20	358	231.10	1562	316.80	302
64.20	370	151.20	812	232.00	391	320.10	172
65.00	1405	151.70	287	233.00	171	321.20	498
67.10	300	152.20	193	234.00	874	322.00	414
67.80	1419	153.00	1767	234.80	819	323.00	4402
69.00	88712	154.10	1131	235.00	830	324.00	1165
70.20	356	155.10	2579	235.90	660	326.00	241
73.00	900	156.00	3603	236.90	1162	326.80	738
74.10	6968	156.90	386	238.20	218	327.90	622
75.00	11076	157.20	507	239.00	912	328.90	152
76.10	3533	158.00	585	240.00	188	329.90	164
77.10	88880	158.90	895	241.10	724	331.90	352
78.10	6431	159.90	1310	242.10	1272	332.90	297
79.00	6257	161.10	2117	243.00	1206	334.00	3085
80.00	3843	162.00	1132	244.10	22928	334.90	1043
81.10	7286	163.00	374	245.00	2551	337.00	152
81.90	1010	164.10	728	246.00	4787	338.90	152
83.10	2029	165.10	1357	246.80	315	341.10	170
84.00	842	166.00	1402	247.30	532	342.20	316
85.10	841	167.10	9927	247.70	381	345.80	1380

86.00	1872	168.00	5238	249.00	1037	346.80	157
87.10	716	169.10	821	250.30	397	352.00	1419
87.80	313	170.20	882	250.90	266	353.00	1283
88.80	266	170.90	900	251.60	429	354.00	932
91.10	1368	171.80	602	252.00	633	355.10	235
92.00	1407	172.90	1410	253.00	572	360.70	156
93.10	10302	174.00	2475	253.40	571	365.00	7925
94.10	563	175.00	3660	254.10	1589	366.00	1792
95.10	255	175.90	1037	255.00	122672	371.00	681
96.10	531	177.00	1907	256.00	20264	372.10	3143
96.90	258	178.00	743	257.00	1980	372.80	255
98.10	7688	179.00	6488	258.10	7327	376.20	171
99.00	5316	180.00	4475	259.10	904	383.00	988
100.10	584	181.00	3648	260.10	187	384.80	359
101.00	3145	182.00	500	260.80	278	389.90	232
102.90	1395	182.80	274	262.00	511	391.10	217
104.10	1688	185.10	3543	263.60	192	400.70	411
105.10	1404	186.10	30032	264.10	226	401.90	1509
106.20	775	187.00	7248	265.00	2417	402.80	778
107.10	28072	187.90	513	266.00	768	403.90	642
108.00	3949	188.90	1656	267.00	344	404.70	242
109.20	767	190.00	599	267.70	164	417.70	173
110.00	52832	191.00	1051	268.20	181	421.00	977
111.10	6781	192.00	3091	269.90	238	422.00	1090
112.10	1106	193.00	2854	270.50	206	423.00	10085
113.00	383	194.00	766	271.10	377	424.00	1951
116.00	1267	196.00	7211	273.00	4235	432.30	244
117.00	20992	198.00	202560	274.00	7760	438.80	167
118.00	1506	199.00	13258	275.00	50288	441.10	30240
120.00	377	200.00	1463	276.00	5934	442.00	190336
122.10	1728	201.60	1145	277.00	4210	443.00	37224
123.00	3059	203.10	1102	278.00	877	443.90	3510
124.00	1026	204.10	7915	278.80	278	444.60	230
125.10	840	205.00	14856	282.00	311	470.60	163
125.70	710	206.10	56032	283.10	513	541.70	419
127.10	93064	207.00	7047	284.10	336		
128.10	7323	208.00	1693	284.80	794		
129.10	37000	208.80	525	285.20	952		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 22-FEB-2013 11:57  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m  
 Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 2 QC Sample: DFTPP  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 4.14 Sample Matrix: None  
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.477	8.532	-0.055	198	100672			50.00-	0.00	100.00
8.477	8.532	-0.055	51	47200			10.00-	80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	69	46864			0.00-	0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	127	51248			10.00-	80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	442	64976			50.00-	0.00	64.54
8.477	8.532	-0.055	199	7983			5.00-	9.00	7.93
8.477	8.532	-0.055	275	25312			10.00-	60.00	25.14
8.477	8.532	-0.055	365	2913			1.00-	0.00	2.89
8.477	8.532	-0.055	441	10444			0.01-	99.99	78.40
8.477	8.532	-0.055	443	13322			15.00-	24.00	20.50

Data File: 1DB22002.D

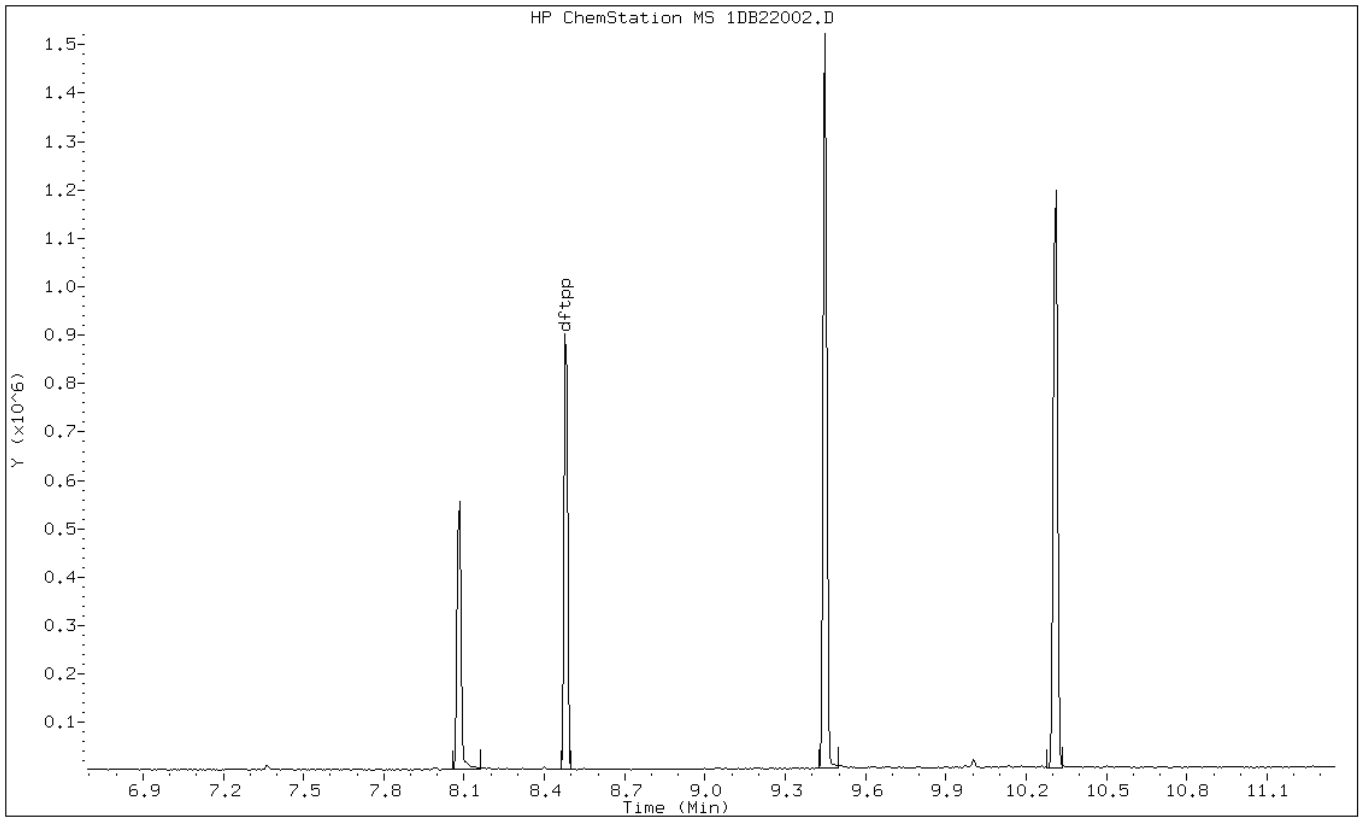
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC





Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

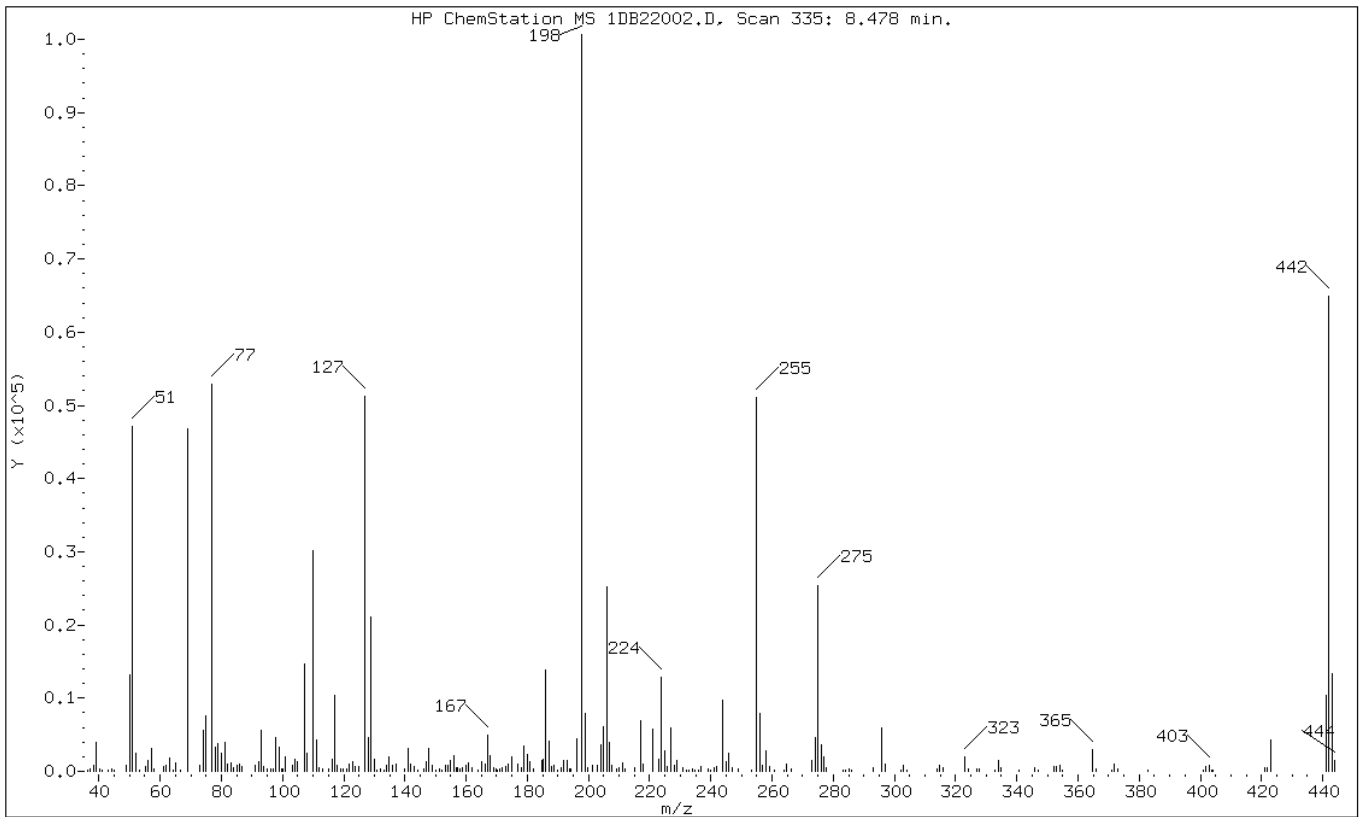
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 ( 20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213\_pahIC.b\1DB22002.D  
Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.

Location of Maximum: 197.90

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
+-----+							
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
+-----+							
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
+-----+							
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
+-----+							
112.90	308	177.90	412	255.90	7928		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28002.D  
 Lab Smp Id: DFTPP Client Smp ID: DFTPP  
 Inj Date : 28-MAR-2013 12:00  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : DFTPP-1490607  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.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				
8.394	8.532	-0.138	198	118720		50.00-	0.00	100.00	
8.394	8.532	-0.138	51	44740		10.00-	80.00	37.69	
8.394	8.532	-0.138	68	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	69	49056		0.00-	0.00	41.32	
8.394	8.532	-0.138	70	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	127	54168		10.00-	80.00	45.63	
8.394	8.532	-0.138	197	0	0.0	0.0	0.00-	2.00	0.00
8.394	8.532	-0.138	442	115172		50.00-	0.00	97.01	
8.394	8.532	-0.138	199	7676		5.00-	9.00	6.47	
8.394	8.532	-0.138	275	34920		10.00-	60.00	29.41	
8.394	8.532	-0.138	365	4377		1.00-	0.00	3.69	
8.394	8.532	-0.138	441	9468		0.01-	99.99	40.88	
8.394	8.532	-0.138	443	23160		15.00-	24.00	20.11	

Data File: 1DC28002.D

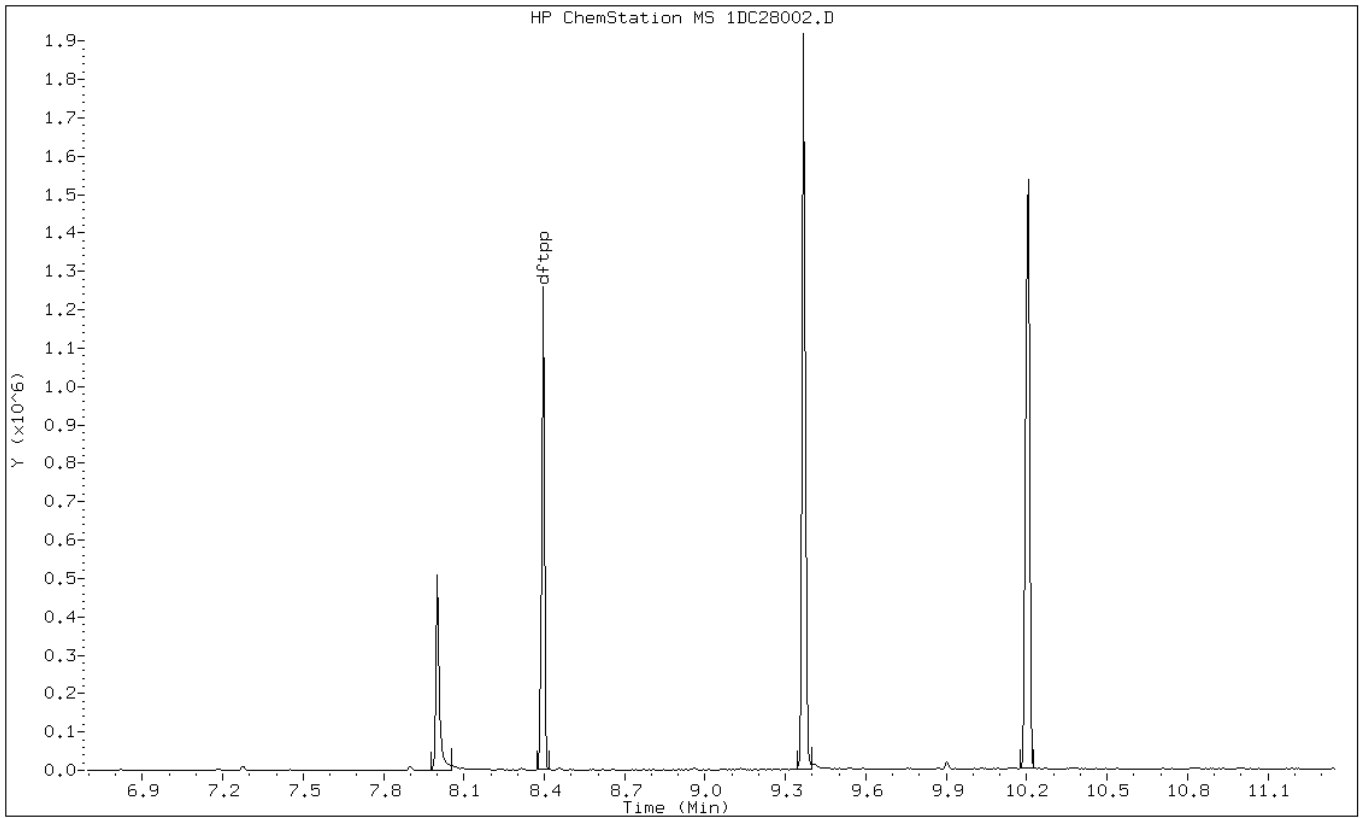
Date: 28-MAR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

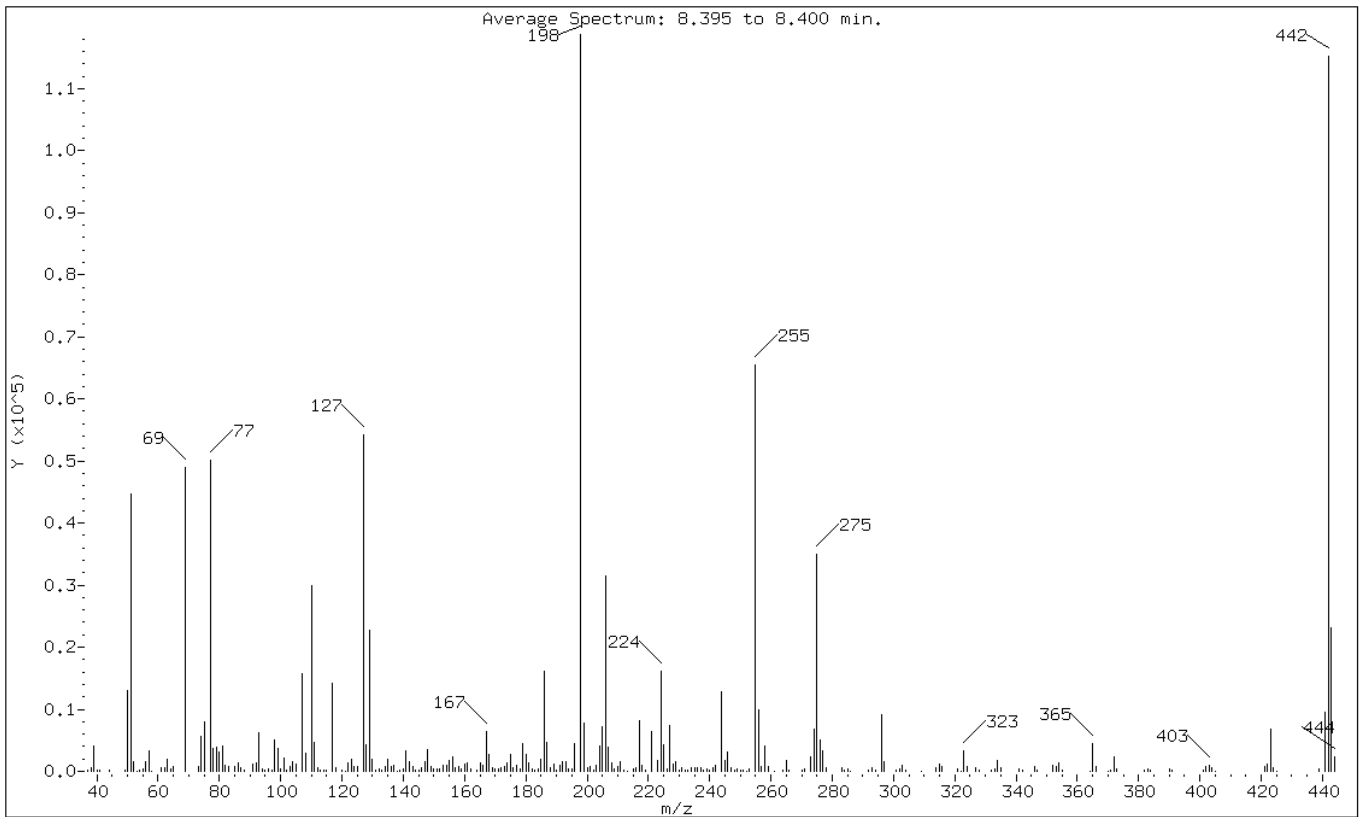
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.69
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	41.32
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	10.00 - 80.00% of mass 198	45.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	97.01
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	29.41
365	Greater than 1.00% of mass 198	3.69
441	Present, but less than mass 443	7.98
443	15.00 - 24.00% of mass 442	19.51 ( 20.11)

Data File: 1DC28002.D

Date: 28-MAR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28002.D

Spectrum: Average Spectrum: 8.395 to 8.400 min.

Location of Maximum: 198.00

Number of points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	217	127.00	54168	195.00	316	275.00	34920
38.00	652	128.00	4364	196.00	4387	276.00	4991
39.00	4036	129.00	22792	198.00	118720	277.00	3210
40.00	249	130.00	1984	199.00	7676	278.00	511
41.00	189	131.00	212	200.00	678	283.00	505
44.00	193	132.00	329	201.00	798	284.00	178
49.00	169	133.00	286	202.00	247	285.00	401
50.00	13051	134.00	770	203.00	936	286.00	80
51.00	44736	135.00	1898	204.00	4038	292.00	115
52.00	1619	136.00	800	205.00	7153	293.00	602
53.00	82	137.00	940	206.00	31432	294.00	230
54.00	116	138.00	95	207.00	3913	296.00	9139
55.00	397	139.00	129	208.00	1327	297.00	1561
56.00	1555	140.00	368	209.00	413	301.00	106
57.00	3358	141.00	3209	210.00	802	302.00	396
58.00	89	142.00	1638	211.00	1464	303.00	1008
61.00	644	143.00	727	212.00	168	304.00	248
62.00	598	144.00	244	213.00	87	309.00	91
63.00	1870	145.00	285	215.00	456	314.00	617
64.00	327	146.00	622	216.00	676	315.00	1178
65.00	835	147.00	1555	217.00	8160	316.00	693
69.00	49056	148.00	3481	218.00	929	321.00	320
73.00	799	149.00	850	219.00	116	322.00	89
74.00	5589	150.00	445	221.00	6440	323.00	3339
75.00	7943	151.00	431	223.00	1800	324.00	775
77.00	50048	152.00	372	224.00	16072	327.00	530
78.00	3785	153.00	1000	225.00	4300	328.00	180
79.00	3961	154.00	936	226.00	410	332.00	272
80.00	3056	155.00	1774	227.00	7307	333.00	408
81.00	4001	156.00	2398	228.00	1215	334.00	1761
82.00	1061	157.00	626	229.00	1643	335.00	648
83.00	851	158.00	717	230.00	262	341.00	396
85.00	755	159.00	303	231.00	578	342.00	116
86.00	1446	160.00	1071	232.00	167	346.00	746
87.00	570	161.00	1416	233.00	129	347.00	179
88.00	264	162.00	464	234.00	565	352.00	1061
91.00	1176	164.00	196	235.00	634	353.00	757
92.00	1383	165.00	1422	236.00	490	354.00	1368
93.00	6260	166.00	1001	237.00	528	355.00	224
94.00	409	167.00	6326	238.00	99	364.00	95

95.00	102	168.00	2661	239.00	410	365.00	4377
96.00	420	169.00	594	240.00	174	366.00	788
97.00	166	170.00	417	241.00	587	370.00	97
98.00	5088	171.00	341	242.00	945	371.00	124
99.00	3660	172.00	551	244.00	12737	372.00	2344
100.00	365	173.00	743	245.00	1841	373.00	302
101.00	2082	174.00	1294	246.00	3058	382.00	153
102.00	123	175.00	2643	247.00	585	383.00	385
103.00	834	176.00	679	248.00	223	384.00	203
104.00	1633	177.00	929	249.00	336	390.00	377
105.00	1235	178.00	349	250.00	166	391.00	185
107.00	15688	179.00	4452	251.00	103	401.00	184
108.00	2877	180.00	2786	252.00	80	402.00	800
110.00	29968	181.00	1303	253.00	326	403.00	989
111.00	4724	182.00	465	255.00	65424	404.00	488
112.00	584	183.00	181	256.00	9977	405.00	86
113.00	263	184.00	295	257.00	710	421.00	728
114.00	107	185.00	1993	258.00	4066	422.00	1154
115.00	127	186.00	16075	259.00	814	423.00	6892
117.00	14220	187.00	4686	261.00	91	424.00	679
118.00	528	188.00	583	264.00	275	425.00	78
120.00	261	189.00	1083	265.00	1775	439.00	335
121.00	82	190.00	137	266.00	201	441.00	9468
122.00	1266	191.00	1001	270.00	104	442.00	115168
123.00	1908	192.00	1500	271.00	436	443.00	23160
124.00	705	193.00	1628	273.00	2348	444.00	2266
125.00	810	194.00	385	274.00	6735		



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135800/1-A  
 Matrix: Solid Lab File ID: 1CC27005.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 11:26  
 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.: 135830 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	69		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27005.D  
 Lab Smp Id: mb 660-135800/1-a  
 Inj Date : 27-MAR-2013 11:26  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : mb 660-135800/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	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	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	733449	40.0000	
* 6 Acenaphthene-d10	164		4.821	4.815	(1.000)	569617	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.762	(1.000)	1053797	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.015	(1.044)	109413	6.87676	457.8403
* 18 Chrysene-d12	240		7.715	7.704	(1.000)	1355661	40.0000	
* 23 Perylene-d12	264		8.909	8.886	(1.000)	1428942	40.0000	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1CC27005.D

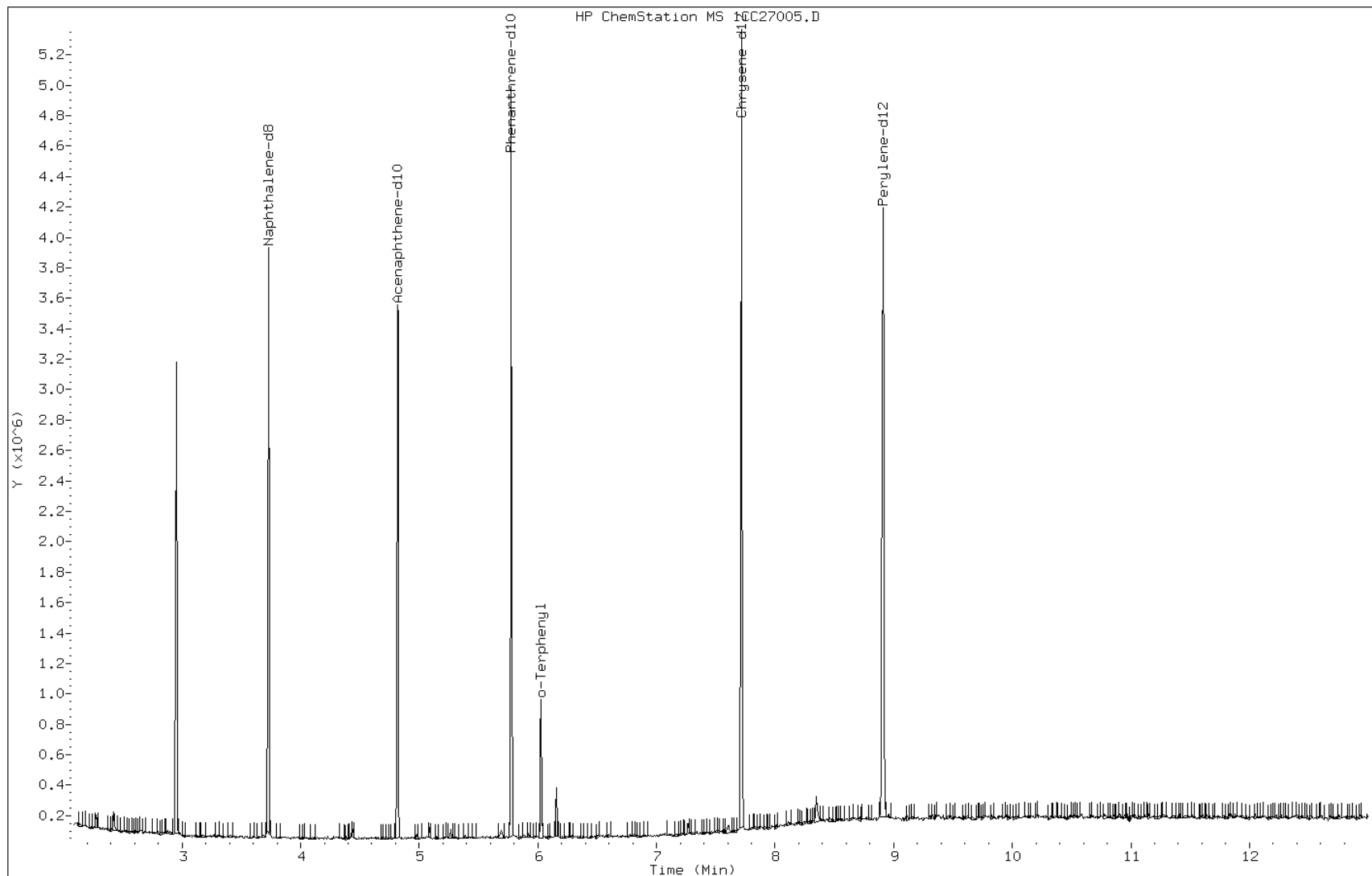
Date: 27-MAR-2013 11:26

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135800/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135822/1-A  
 Matrix: Solid Lab File ID: 1DC28011.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 15.15(g) Date Analyzed: 03/28/2013 15:42  
 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.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
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	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28011.D  
 Lab Smp Id: MB 660-135822/1-A  
 Inj Date : 28-MAR-2013 15:42  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : MB 660-135822/1-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 11 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	15.150	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		6.102	6.102	(1.000)	3397993	40.0000	
* 6 Acenaphthene-d10	164		7.776	7.777	(1.000)	2207708	40.0000	
* 9 Phenanthrene-d10	188		9.040	9.040	(1.000)	3627662	40.0000	
\$ 13 o-Terphenyl	230		9.345	9.351	(1.034)	366541	6.53391	430
* 17 Chrysene-d12	240		11.366	11.373	(1.000)	3652900	40.0000	
* 22 Perylene-d12	264		13.217	13.223	(1.000)	3883149	40.0000	

Data File: 1DC28011.D

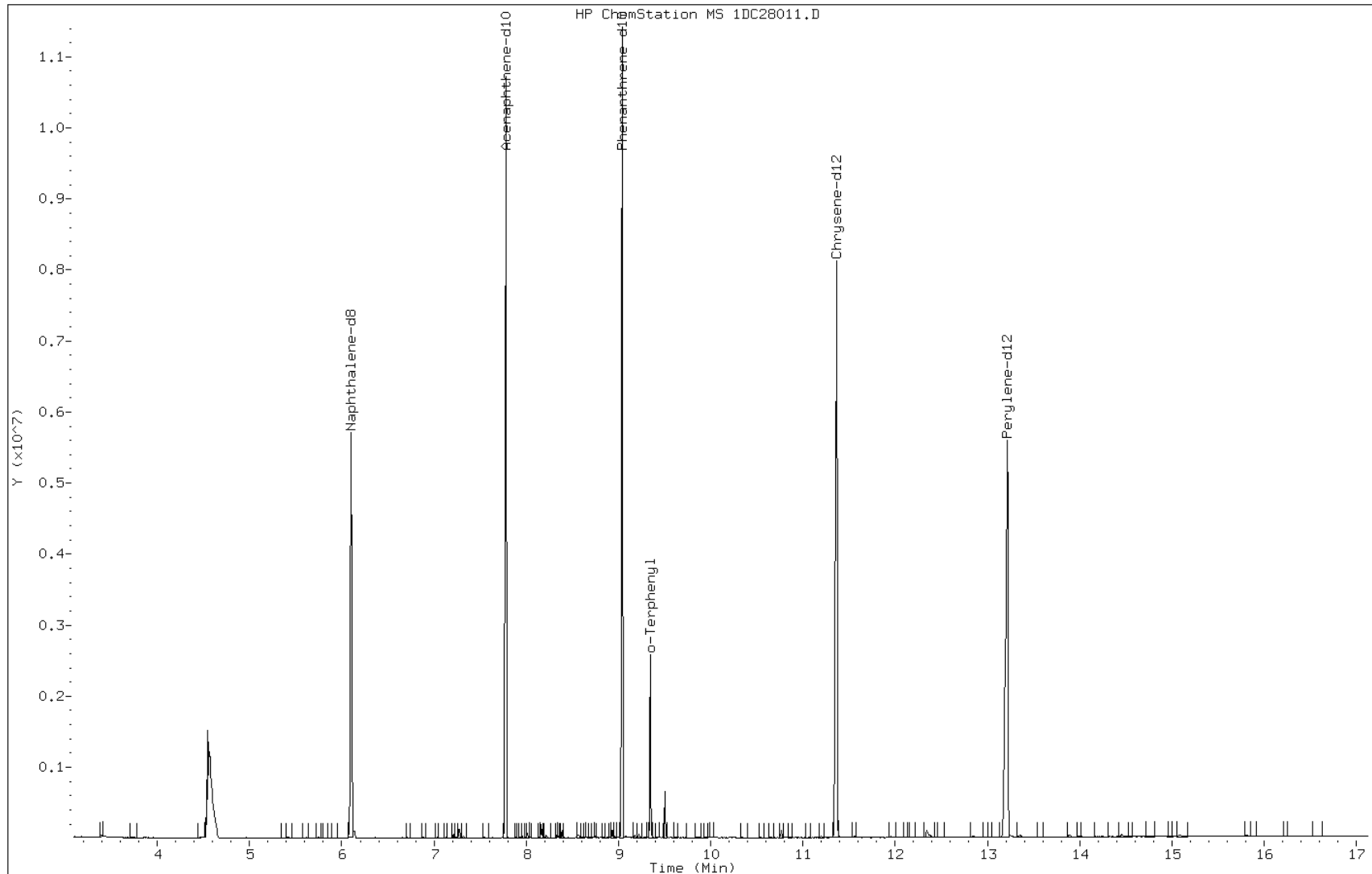
Date: 28-MAR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-135822/1-A

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 660-135843/1-A  
 Matrix: Solid Lab File ID: 1CD01013.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 15:04  
 Sample wt/vol: 15.09(g) Date Analyzed: 04/01/2013 14:52  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	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	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
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	60		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01013.D  
 Lab Smp Id: mb 660-135843/1-a  
 Inj Date : 01-APR-2013 14:52  
 Operator : SCC  
 Smp Info : mb 660-135843/1-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 13 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	15.090	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.715	3.716	(1.000)	615973	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	487906	40.0000	
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	918261	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	82889	5.97865	396.1991
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1067842	40.0000	
* 23 Perylene-d12	264		8.868	8.886	(1.000)	1091075	40.0000	



Data File: 1CD01013.D

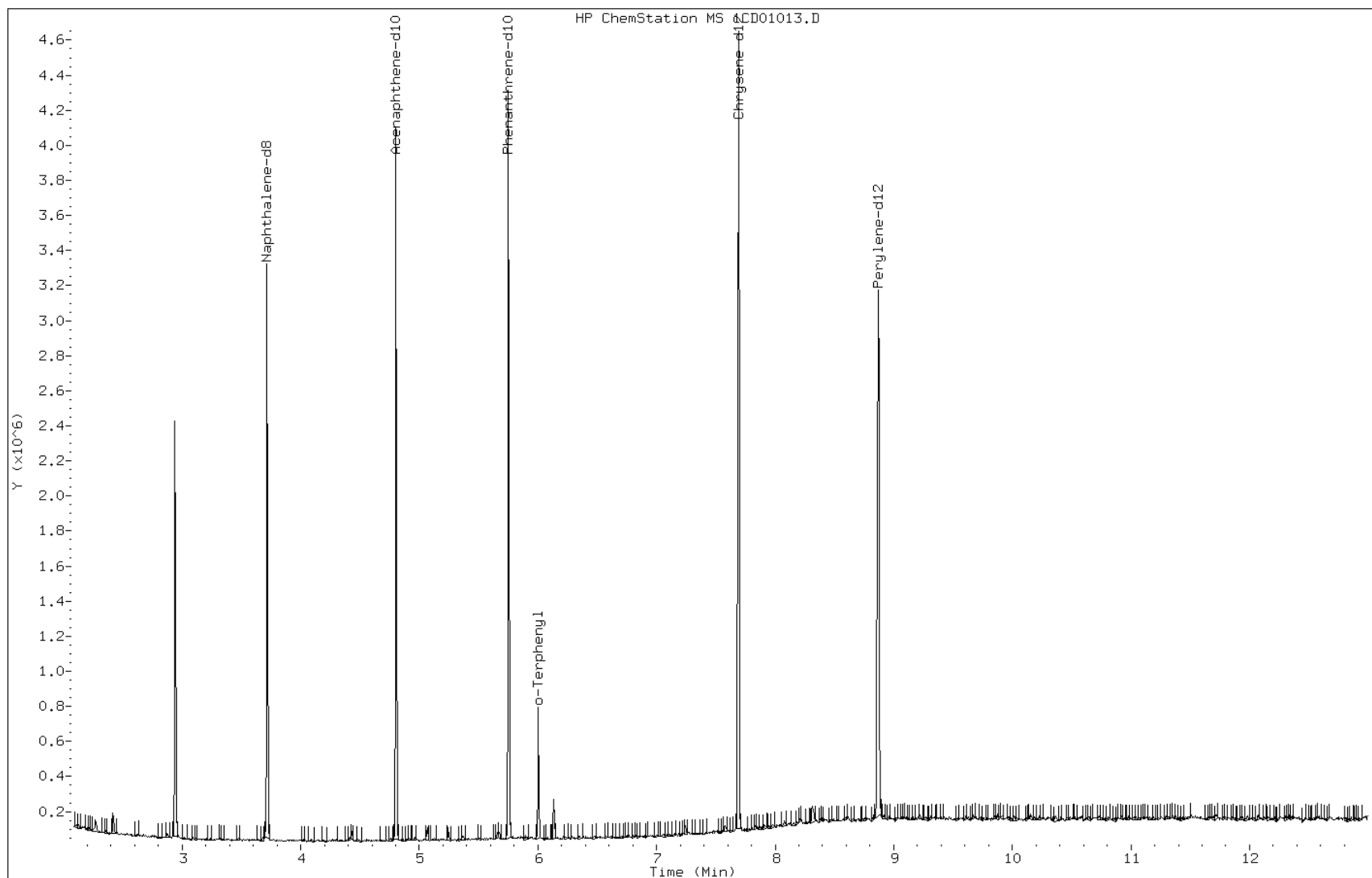
Date: 01-APR-2013 14:52

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135843/1-a

Operator: SCC



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135800/2-A  
 Matrix: Solid Lab File ID: 1CC27006.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 14.93(g) Date Analyzed: 03/27/2013 11:44  
 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.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	534		100	20
208-96-8	Acenaphthylene	518		40	5.0
120-12-7	Anthracene	533		8.4	4.2
56-55-3	Benzo[a]anthracene	502		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	554		12	6.1
191-24-2	Benzo[g,h,i]perylene	493		20	4.4
207-08-9	Benzo[k]fluoranthene	514		8.0	3.6
218-01-9	Chrysene	494		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	525		20	4.1
206-44-0	Fluoranthene	540		20	4.0
86-73-7	Fluorene	558		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	495		20	7.1
90-12-0	1-Methylnaphthalene	553		40	4.4
91-57-6	2-Methylnaphthalene	503		40	7.1
91-20-3	Naphthalene	505		40	4.4
85-01-8	Phenanthrene	503		8.0	3.9
129-00-0	Pyrene	517		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27006.D  
 Lab Smp Id: lcs 660-135800/2-a  
 Inj Date : 27-MAR-2013 11:44  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-135800/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.930	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	652625	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	502253	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	992616	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	108704	7.25331	485.8212
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1311274	40.0000	
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1340417	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	128116	7.54054	505.0595
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	85194	7.51716	503.4935
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	85211	8.25536	552.9377
5 Acenaphthylene	152		4.727	4.727	(0.982)	156640	7.73559	518.1239
7 Acenaphthene	154		4.833	4.833	(1.004)	100340	7.97232	533.9797
9 Fluorene	166		5.157	5.157	(1.071)	132624	8.33204	558.0736
11 Phenanthrene	178		5.780	5.780	(1.003)	215750	7.51688	503.4748
12 Anthracene	178		5.815	5.815	(1.009)	223167	7.95025	532.5015

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.921	5.921	(1.028)	208607	8.36011	559.9536
15 Fluoranthene	202	6.615	6.615	(1.148)	253297	8.05851	539.7528
16 Pyrene	202	6.786	6.786	(0.881)	271762	7.71205	516.5474
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	283634	7.49444	501.9721
19 Chrysene	228	7.727	7.727	(1.003)	279367	7.37616	494.0493
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	289903	8.27583	554.3088
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	275549	7.66789	513.5896
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	245352	7.21079	482.9731
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	236438	7.38672	494.7567(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	245341	7.83616	524.8597
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	246420	7.35942	492.9283

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27006.D

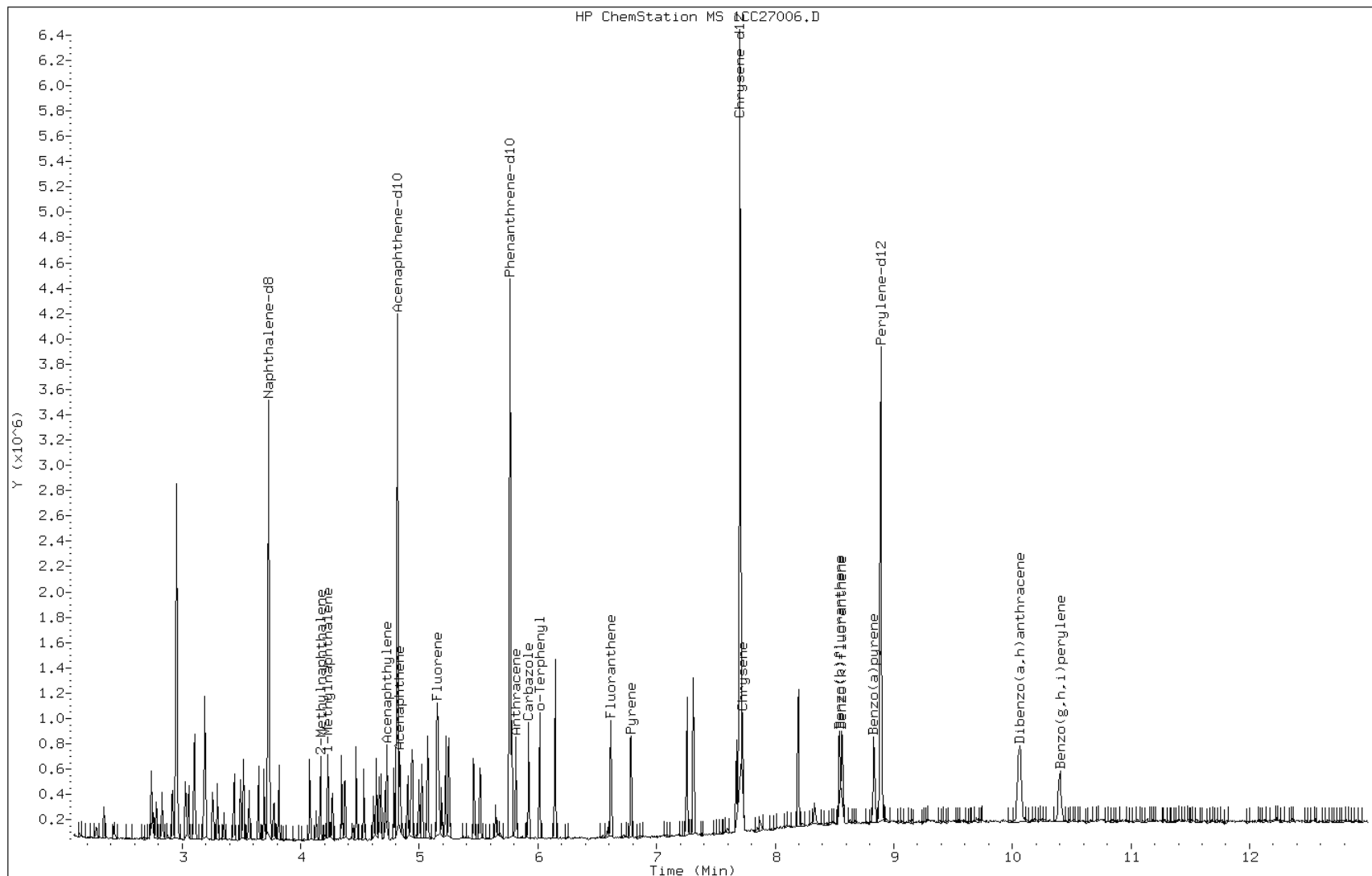
Date: 27-MAR-2013 11:44

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135800/2-a

Operator: SCC

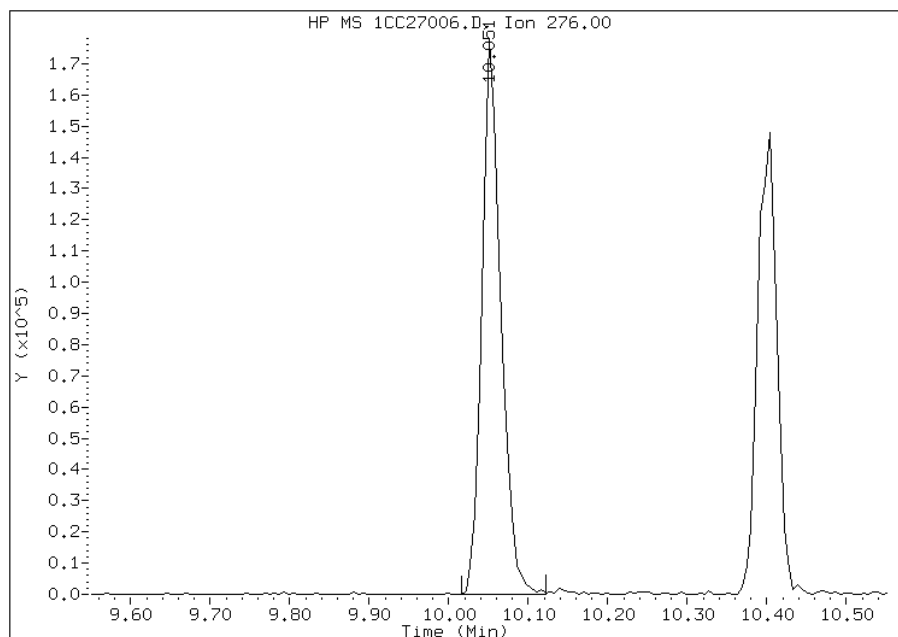


# Manual Integration Report

Data File: 1CC27006.D  
Inj. Date and Time: 27-MAR-2013 11:44  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

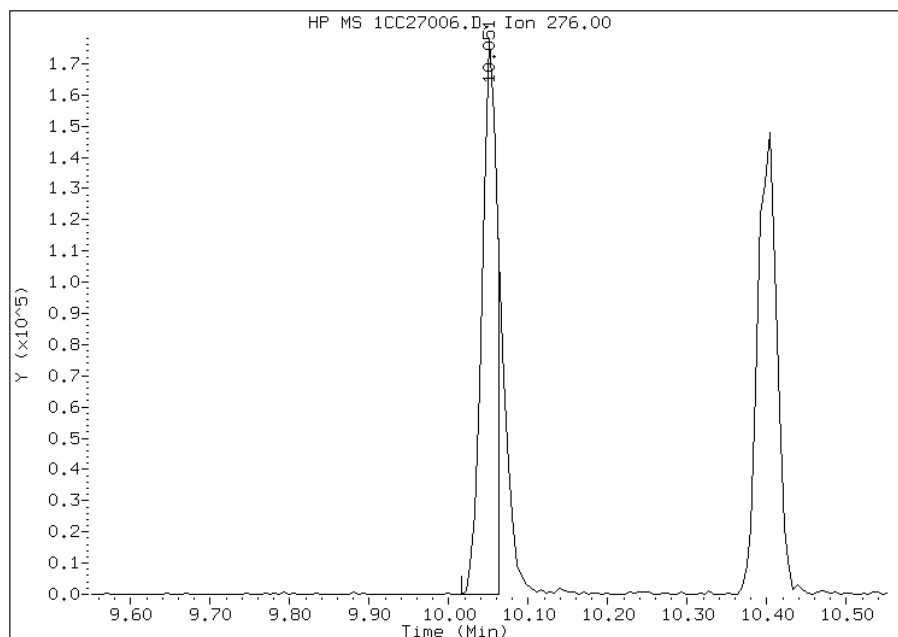
## Processing Integration Results

RT: 10.05  
Response: 292346  
Amount: 9  
Conc: 612



## Manual Integration Results

RT: 10.05  
Response: 236438  
Amount: 7  
Conc: 495



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 12:18  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135822/2-A  
 Matrix: Solid Lab File ID: 1DC28012.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.93(g) Date Analyzed: 03/28/2013 16:05  
 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.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	455		100	20
208-96-8	Acenaphthylene	472		40	5.0
120-12-7	Anthracene	464		8.4	4.2
56-55-3	Benzo[a]anthracene	520		8.0	3.9
50-32-8	Benzo[a]pyrene	459		10	5.2
205-99-2	Benzo[b]fluoranthene	503		12	6.1
191-24-2	Benzo[g,h,i]perylene	486		20	4.4
207-08-9	Benzo[k]fluoranthene	484		8.0	3.6
218-01-9	Chrysene	464		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	527		20	4.1
206-44-0	Fluoranthene	488		20	4.0
86-73-7	Fluorene	491		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	469		20	7.1
90-12-0	1-Methylnaphthalene	512		40	4.4
91-57-6	2-Methylnaphthalene	499		40	7.1
91-20-3	Naphthalene	470		40	4.4
85-01-8	Phenanthrene	461		8.0	3.9
129-00-0	Pyrene	464		20	3.7

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\1D032813.b\1DC28012.D  
 Lab Smp Id: LCS 660-135822/2-A  
 Inj Date : 28-MAR-2013 16:05  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : LCS 660-135822/2-A  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 12 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	14.930	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			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.101	6.102	(1.000)	3559975	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2302268	40.0000	
* 9 Phenanthrene-d10	188	9.039	9.040	(1.000)	3843730	40.0000	
\$ 13 o-Terphenyl	230	9.344	9.351	(1.034)	415472	6.98983	470
* 17 Chrysene-d12	240	11.371	11.373	(1.000)	3972248	40.0000	
* 22 Perylene-d12	264	13.222	13.223	(1.000)	4089168	40.0000	
2 Naphthalene	128	6.119	6.126	(1.003)	668703	7.02185	470
3 2-Methylnaphthalene	142	6.824	6.825	(1.118)	452308	7.45602	500
4 1-Methylnaphthalene	142	6.918	6.919	(1.134)	434436	7.64755	510
5 Acenaphthylene	152	7.646	7.653	(0.983)	715235	7.04656	470
7 Acenaphthene	154	7.805	7.806	(1.003)	420804	6.79944	460
8 Fluorene	166	8.246	8.247	(1.060)	530243	7.33307	490
10 Phenanthrene	178	9.056	9.064	(1.002)	750419	6.87759	460
11 Anthracene	178	9.097	9.099	(1.006)	755524	6.92076	460



Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	542920	5.56321	370
14 Fluoranthene	202	10.038	10.045	(1.110)	828971	7.28028	490
15 Pyrene	202	10.226	10.233	(0.899)	852836	6.92150	460
16 Benzo(a)anthracene	228	11.342	11.349	(0.997)	844887	7.76898	520
18 Chrysene	228	11.389	11.396	(1.002)	777008	6.92061	460
19 Benzo(b)fluoranthene	252	12.658	12.671	(0.957)	790645	7.51175	500
20 Benzo(k)fluoranthene	252	12.693	12.712	(0.960)	796651	7.22882	480
21 Benzo(a)pyrene	252	13.110	13.124	(0.992)	713504	6.85022	460
23 Indeno(1,2,3-cd)pyrene	276	14.803	14.827	(1.120)	777532	6.99499	470(M)
24 Dibenzo(a,h)anthracene	278	14.832	14.863	(1.122)	807453	7.86571	530
25 Benzo(g,h,i)perylene	276	15.249	15.280	(1.153)	769468	7.26049	490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC28012.D

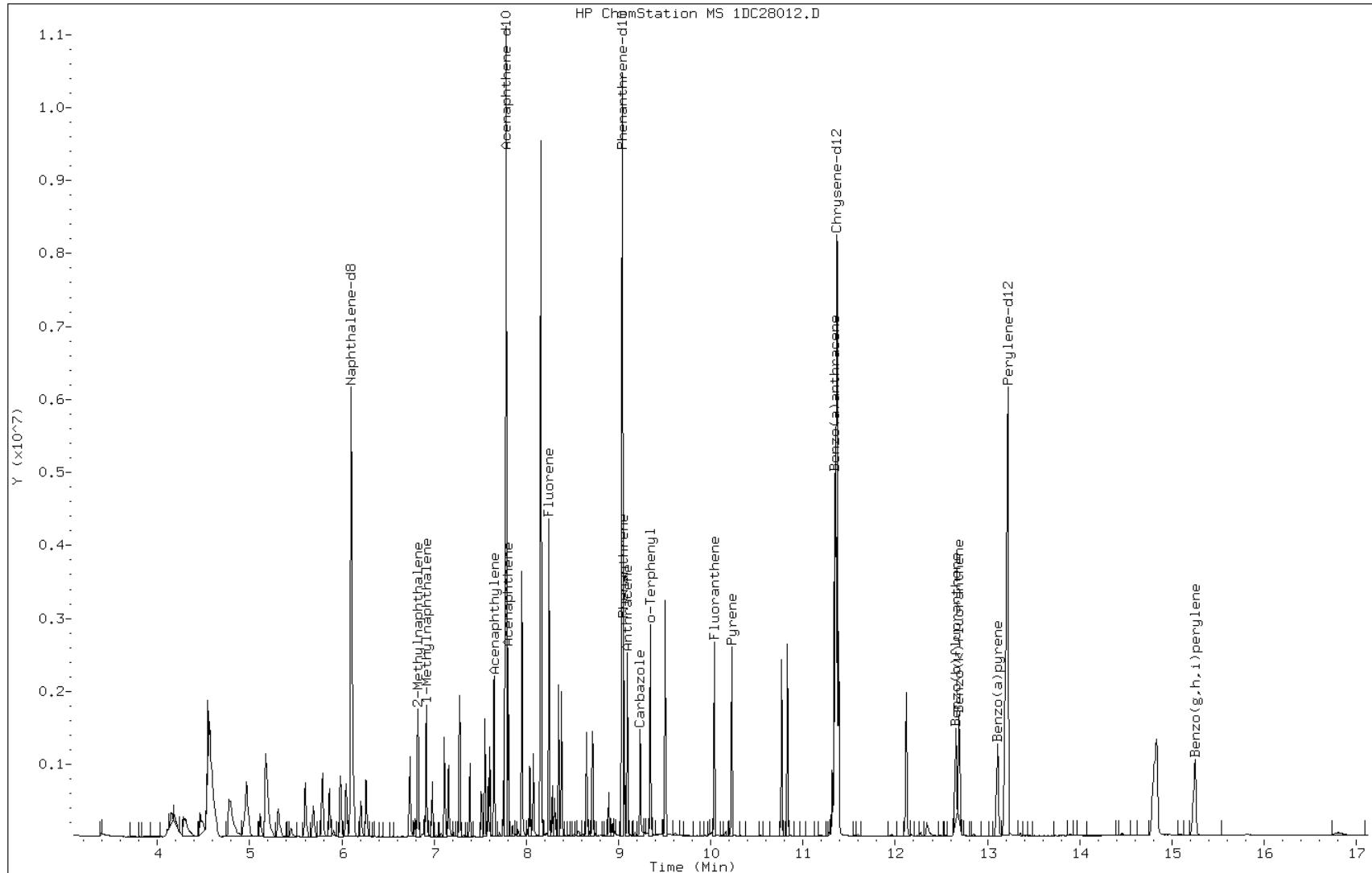
Date: 28-MAR-2013 16:05

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-135822/2-A

Operator: SCC

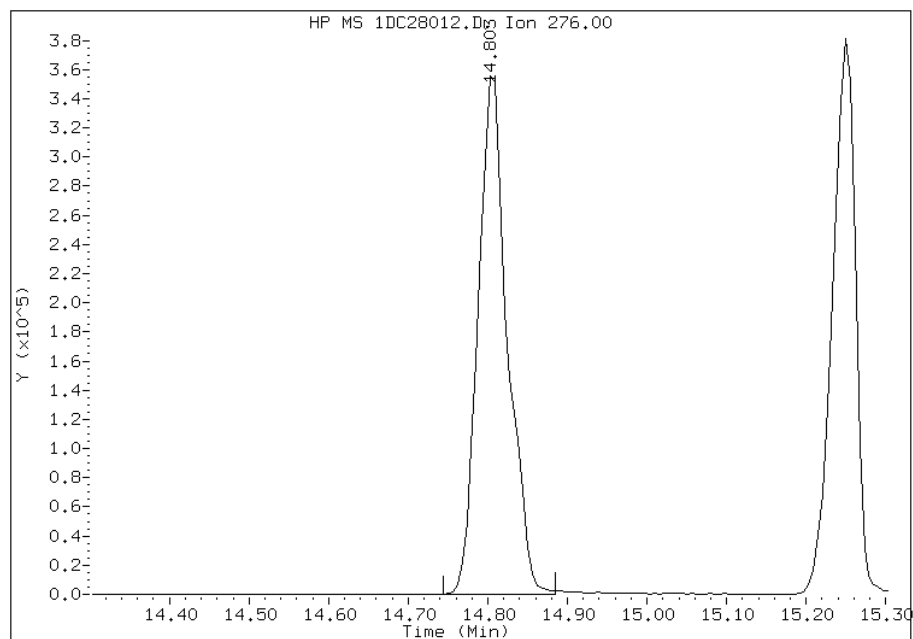


# Manual Integration Report

Data File: 1DC28012.D  
Inj. Date and Time: 28-MAR-2013 16:05  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

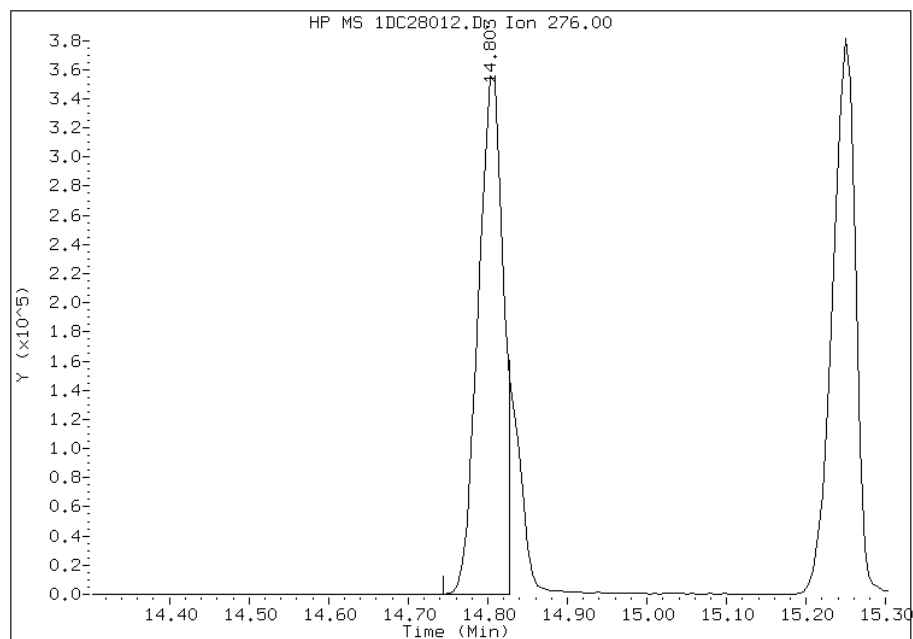
## Processing Integration Results

RT: 14.80  
Response: 908448  
Amount: 8  
Conc: 547



## Manual Integration Results

RT: 14.80  
Response: 777532  
Amount: 7  
Conc: 469



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:49  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 660-135843/2-A  
 Matrix: Solid Lab File ID: 1CD01014.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 15:04  
 Sample wt/vol: 14.96(g) Date Analyzed: 04/01/2013 15:10  
 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.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	495		100	20
208-96-8	Acenaphthylene	547		40	5.0
120-12-7	Anthracene	519		8.4	4.2
56-55-3	Benzo[a]anthracene	536		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	481		12	6.1
191-24-2	Benzo[g,h,i]perylene	477		20	4.4
207-08-9	Benzo[k]fluoranthene	573		8.0	3.6
218-01-9	Chrysene	497		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	499		20	4.1
206-44-0	Fluoranthene	548		20	4.0
86-73-7	Fluorene	536		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	511		20	7.1
90-12-0	1-Methylnaphthalene	593		40	4.4
91-57-6	2-Methylnaphthalene	577		40	7.1
91-20-3	Naphthalene	539		40	4.4
85-01-8	Phenanthrene	518		8.0	3.9
129-00-0	Pyrene	556		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01014.D  
 Lab Smp Id: lcs 660-135843/2-a  
 Inj Date : 01-APR-2013 15:10  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : lcs 660-135843/2-a  
 Misc Info :  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 14 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	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.716	3.716	(1.000)	624323	40.0000		
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	524237	40.0000		
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	955931	40.0000		
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	117222	8.12184	542.9040	
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1186437	40.0000		
* 23 Perylene-d12	264		8.868	8.886	(1.000)	1208573	40.0000		
2 Naphthalene	128		3.727	3.733	(1.003)	131097	8.06578	539.1561	
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)	93536	8.62736	576.6951	
4 1-Methylnaphthalene	142		4.221	4.222	(1.136)	87581	8.86961	592.8885	
5 Acenaphthylene	152		4.716	4.716	(0.982)	173082	8.18913	547.4014	
7 Acenaphthene	154		4.827	4.827	(1.005)	97191	7.39829	494.5381	
9 Fluorene	166		5.145	5.145	(1.071)	133272	8.02164	536.2056	
11 Phenanthrene	178		5.768	5.768	(1.003)	214345	7.75452	518.3502	
12 Anthracene	178		5.804	5.804	(1.009)	210003	7.76839	519.2772	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.910	5.910	(1.028)	185129	7.70393	514.9684
15 Fluoranthene	202	6.604	6.604	(1.148)	248150	8.19773	547.9767
16 Pyrene	202	6.768	6.774	(0.880)	265159	8.31642	555.9104
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	274507	8.01647	535.8604
19 Chrysene	228	7.709	7.715	(1.002)	254743	7.43372	496.9062
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	227489	7.20255	481.4539
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	277741	8.57204	572.9974
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	221479	7.21926	482.5709
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	220757	7.64920	511.3098(M)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	210527	7.45775	498.5126
26 Benzo(g,h,i)perylene	276	10.362	10.386	(1.168)	215210	7.12848	476.5029

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD01014.D

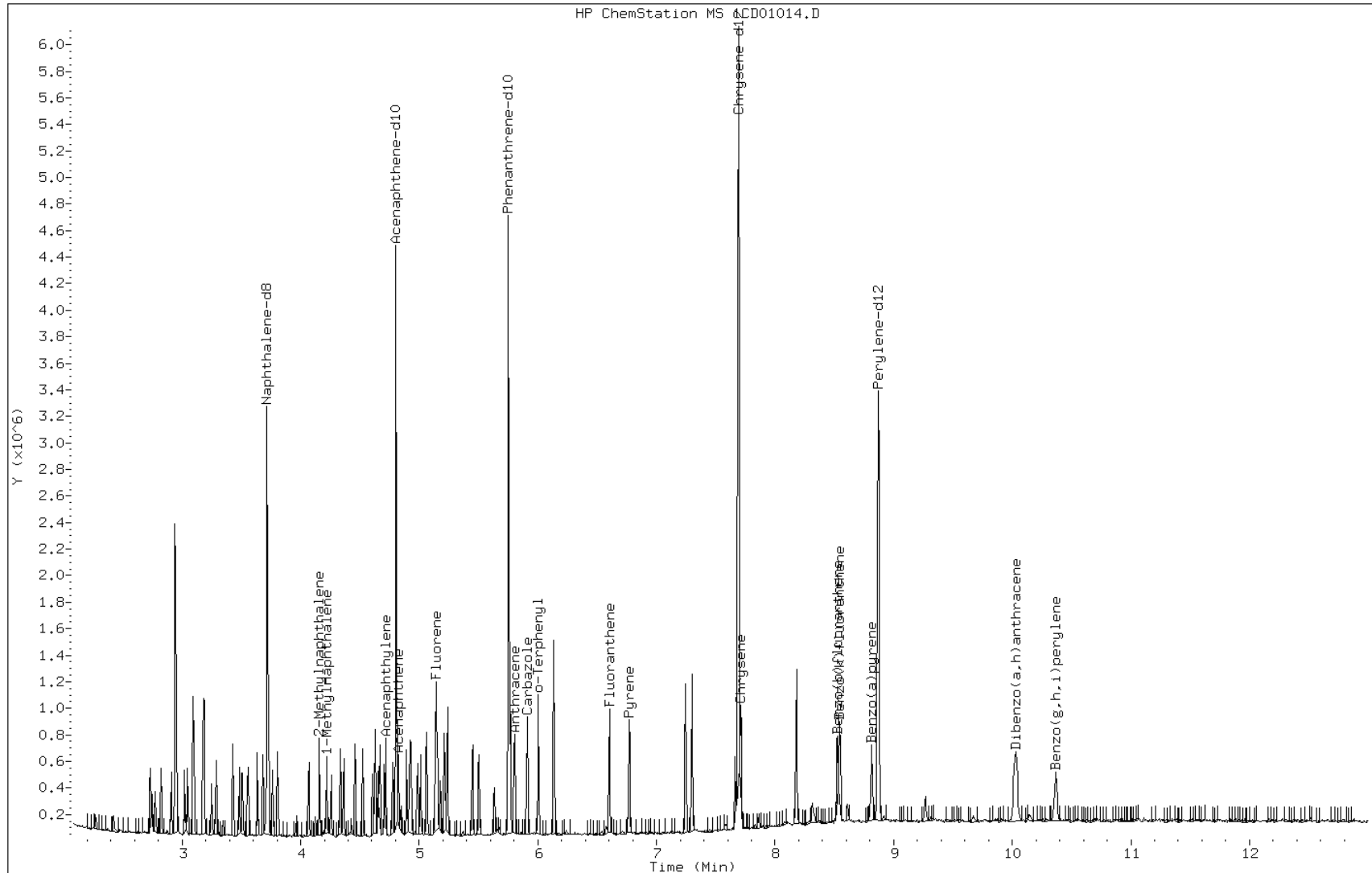
Date: 01-APR-2013 15:10

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135843/2-a

Operator: SCC

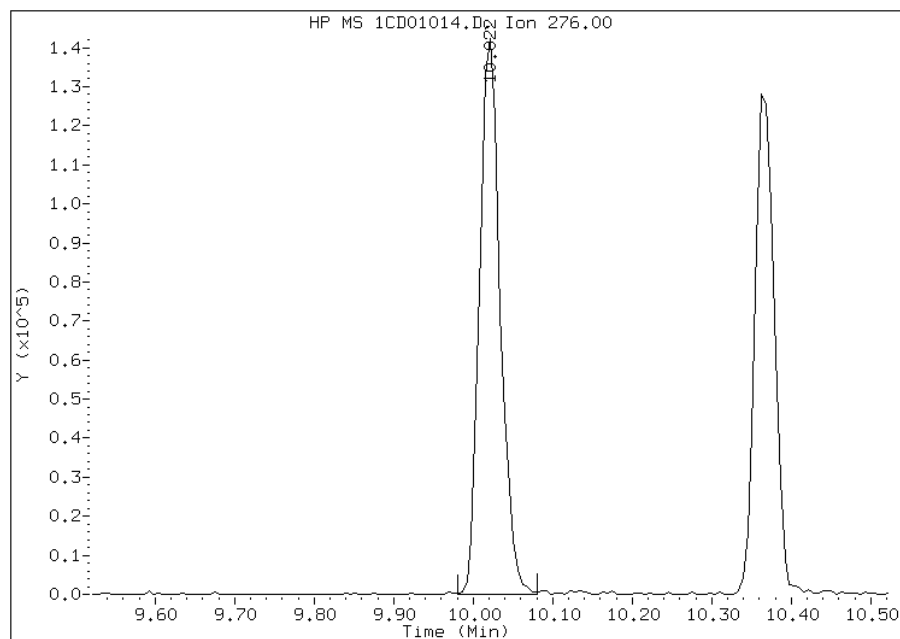


Manual Integration Report

Data File: 1CD01014.D  
Inj. Date and Time: 01-APR-2013 15:10  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/03/2013

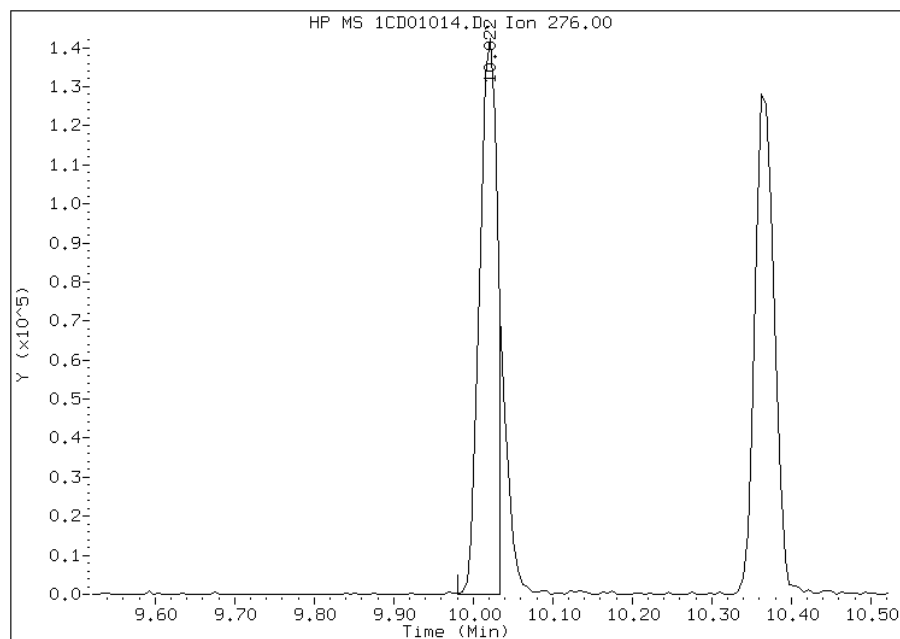
Processing Integration Results

RT: 10.02  
Response: 255670  
Amount: 9  
Conc: 592



Manual Integration Results

RT: 10.02  
Response: 220757  
Amount: 8  
Conc: 511



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:16  
Manual Integration Reason: Split Peak



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-19-B MS  
 Matrix: Solid Lab File ID: 1CC27009.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:39  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	681		600	120
208-96-8	Acenaphthylene	617		240	30
120-12-7	Anthracene	583		50	25
56-55-3	Benzo[a]anthracene	1120		48	23
50-32-8	Benzo[a]pyrene	1280		63	31
205-99-2	Benzo[b]fluoranthene	2010		73	37
191-24-2	Benzo[g,h,i]perylene	1370		120	26
207-08-9	Benzo[k]fluoranthene	1150		48	22
218-01-9	Chrysene	1240		54	27
53-70-3	Dibenz(a,h)anthracene	768		120	25
206-44-0	Fluoranthene	1280		120	24
86-73-7	Fluorene	671		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1110		120	43
90-12-0	1-Methylnaphthalene	781		240	26
91-57-6	2-Methylnaphthalene	690		240	43
91-20-3	Naphthalene	865		240	26
85-01-8	Phenanthrene	870		48	23
129-00-0	Pyrene	1240		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27009.D  
 Lab Smp Id: 680-88592-a-19-b ms  
 Inj Date : 27-MAR-2013 12:39  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-19-b ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 9 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	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	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	788710	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	620741	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1191395	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	24672	1.37158	365.2672
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1439736	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1443512	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	44317	2.15832	574.7855
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	23574	1.72117	458.3681
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24298	1.94786	518.7371
5 Acenaphthylene	152		4.727	4.727	(0.982)	38530	1.53958	410.0076
7 Acenaphthene	154		4.833	4.833	(1.004)	26426	1.69885	452.4224
9 Fluorene	166		5.157	5.157	(1.071)	32951	1.67498	446.0668
11 Phenanthrene	178		5.780	5.780	(1.003)	74827	2.17205	578.4431
12 Anthracene	178		5.815	5.815	(1.009)	49011	1.45469	387.4001

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	46442	1.55067	412.9614
15 Fluoranthene	202	6.615	6.615	(1.148)	120164	3.18511	848.2320
16 Pyrene	202	6.780	6.786	(0.880)	119597	3.09109	823.1940
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	116271	2.79810	745.1662
19 Chrysene	228	7.721	7.727	(1.002)	128319	3.08572	821.7631
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	189312	5.01830	1336.4312(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	111147	2.87207	764.8646
22 Benzo(a)pyrene	252	8.827	8.833	(0.993)	117340	3.20228	852.8032
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.050	(1.130)	95285	2.76426	736.1534(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	64622	1.91661	510.4144
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	123136	3.41485	909.4153(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC27009.D

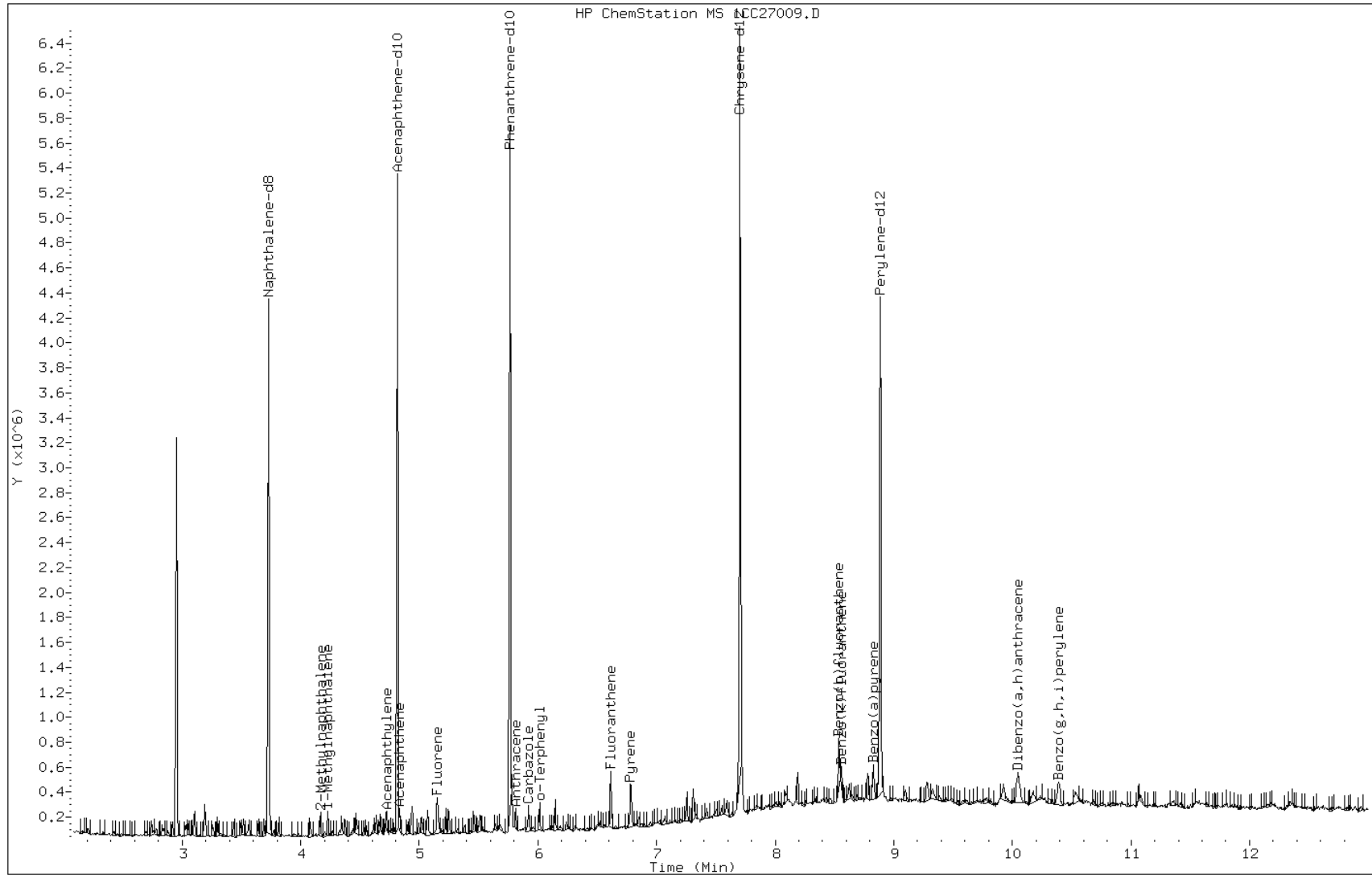
Date: 27-MAR-2013 12:39

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-b ms

Operator: SCC

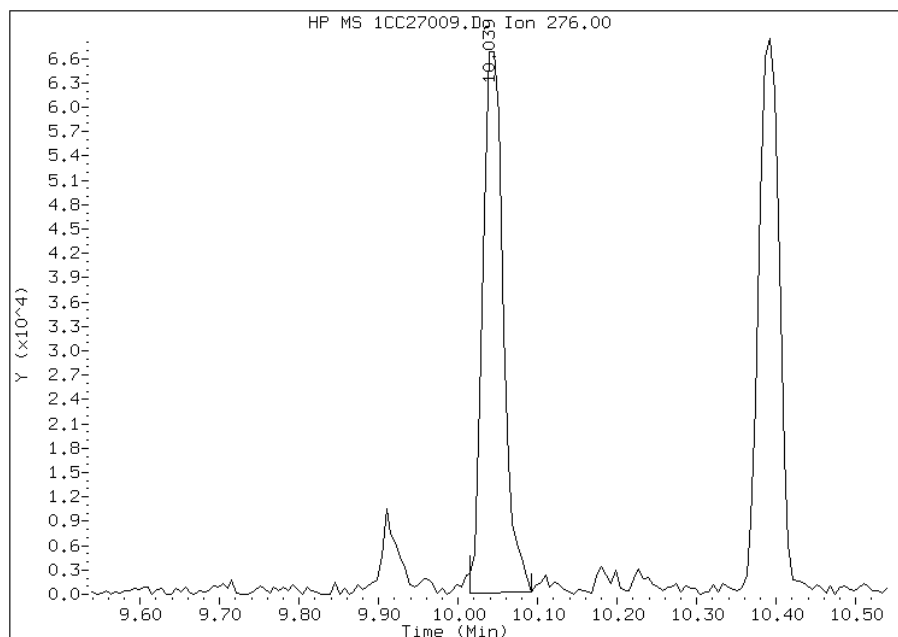


# Manual Integration Report

Data File: 1CC27009.D  
Inj. Date and Time: 27-MAR-2013 12:39  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

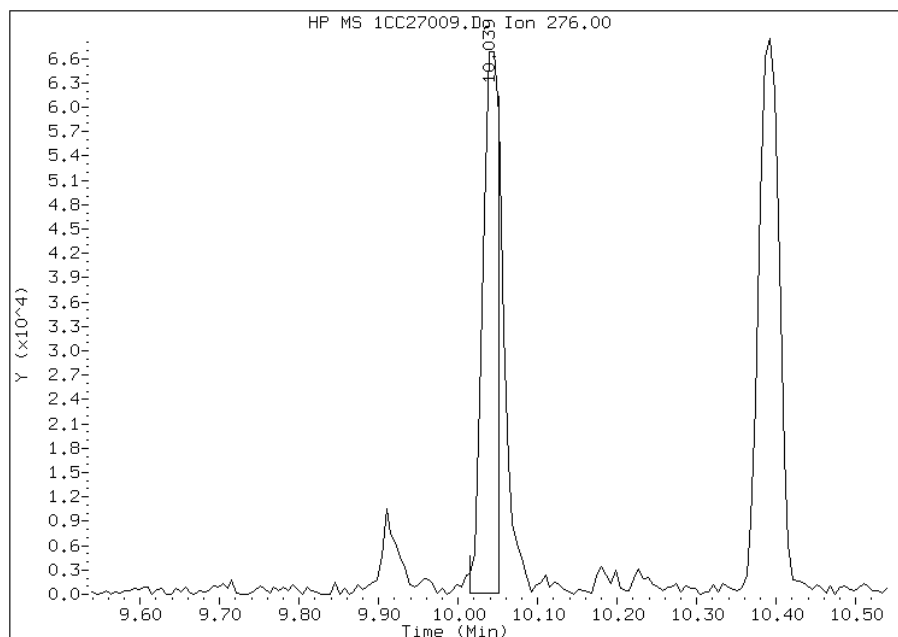
## Processing Integration Results

RT: 10.04  
Response: 119649  
Amount: 3  
Conc: 924



## Manual Integration Results

RT: 10.04  
Response: 95285  
Amount: 3  
Conc: 736



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 13:34  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-21-B MS  
 Matrix: Solid Lab File ID: 1DC28014.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.75(g) Date Analyzed: 03/28/2013 16:50  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	465	J	510	100
208-96-8	Acenaphthylene	493		210	26
120-12-7	Anthracene	478		43	22
56-55-3	Benzo[a]anthracene	561		41	20
50-32-8	Benzo[a]pyrene	467		53	27
205-99-2	Benzo[b]fluoranthene	511		63	31
191-24-2	Benzo[g,h,i]perylene	485		100	23
207-08-9	Benzo[k]fluoranthene	473		41	18
218-01-9	Chrysene	484		46	23
53-70-3	Dibenz(a,h)anthracene	525		100	21
206-44-0	Fluoranthene	509		100	21
86-73-7	Fluorene	502		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	474		100	36
90-12-0	1-Methylnaphthalene	535		210	23
91-57-6	2-Methylnaphthalene	520		210	36
91-20-3	Naphthalene	507		210	23
85-01-8	Phenanthrene	480		41	20
129-00-0	Pyrene	477		100	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28014.D  
 Lab Smp Id: 680-88592-A-21-B MS  
 Inj Date : 28-MAR-2013 16:50  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88592-A-21-B MS  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 14 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.750	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		6.103	6.102	(1.000)	3558914	40.0000	
* 6 Acenaphthene-d10	164		7.777	7.777	(1.000)	2282337	40.0000	
* 9 Phenanthrene-d10	188		9.040	9.040	(1.000)	3768115	40.0000	
\$ 13 o-Terphenyl	230		9.346	9.351	(1.034)	83287	1.42932	390
* 17 Chrysene-d12	240		11.367	11.373	(1.000)	3819813	40.0000	
* 22 Perylene-d12	264		13.218	13.223	(1.000)	3970099	40.0000	
2 Naphthalene	128		6.120	6.126	(1.003)	140891	1.47990	400
3 2-Methylnaphthalene	142		6.825	6.825	(1.118)	91992	1.51688	410
4 1-Methylnaphthalene	142		6.919	6.919	(1.134)	88757	1.56289	420
5 Acenaphthylene	152		7.648	7.653	(0.983)	144913	1.44016	390
7 Acenaphthene	154		7.801	7.806	(1.003)	83230	1.35659	370
8 Fluorene	166		8.247	8.247	(1.060)	104963	1.46428	400
10 Phenanthrene	178		9.058	9.064	(1.002)	149813	1.40059	380
11 Anthracene	178		9.093	9.099	(1.006)	149252	1.39462	380

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.234	9.240	(1.021)	131695	1.37654	370
14 Fluoranthene	202	10.039	10.045	(1.110)	165706	1.48449	400
15 Pyrene	202	10.227	10.233	(0.900)	165141	1.39375	380
16 Benzo(a)anthracene	228	11.338	11.349	(0.997)	171394	1.63891	440
18 Chrysene	228	11.385	11.396	(1.002)	152530	1.41276	380
19 Benzo(b)fluoranthene	252	12.648	12.671	(0.957)	152483	1.49216	400
20 Benzo(k)fluoranthene	252	12.689	12.712	(0.960)	147844	1.38177	370
21 Benzo(a)pyrene	252	13.100	13.124	(0.991)	137887	1.36353	370
23 Indeno(1,2,3-cd)pyrene	276	14.792	14.827	(1.119)	149286	1.38332	380(M)
24 Dibenzo(a,h)anthracene	278	14.822	14.863	(1.121)	152664	1.53176	420(H)
25 Benzo(g,h,i)perylene	276	15.233	15.280	(1.152)	145824	1.41722	380(H)

QC Flag Legend

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



Data File: 1DC28014.D

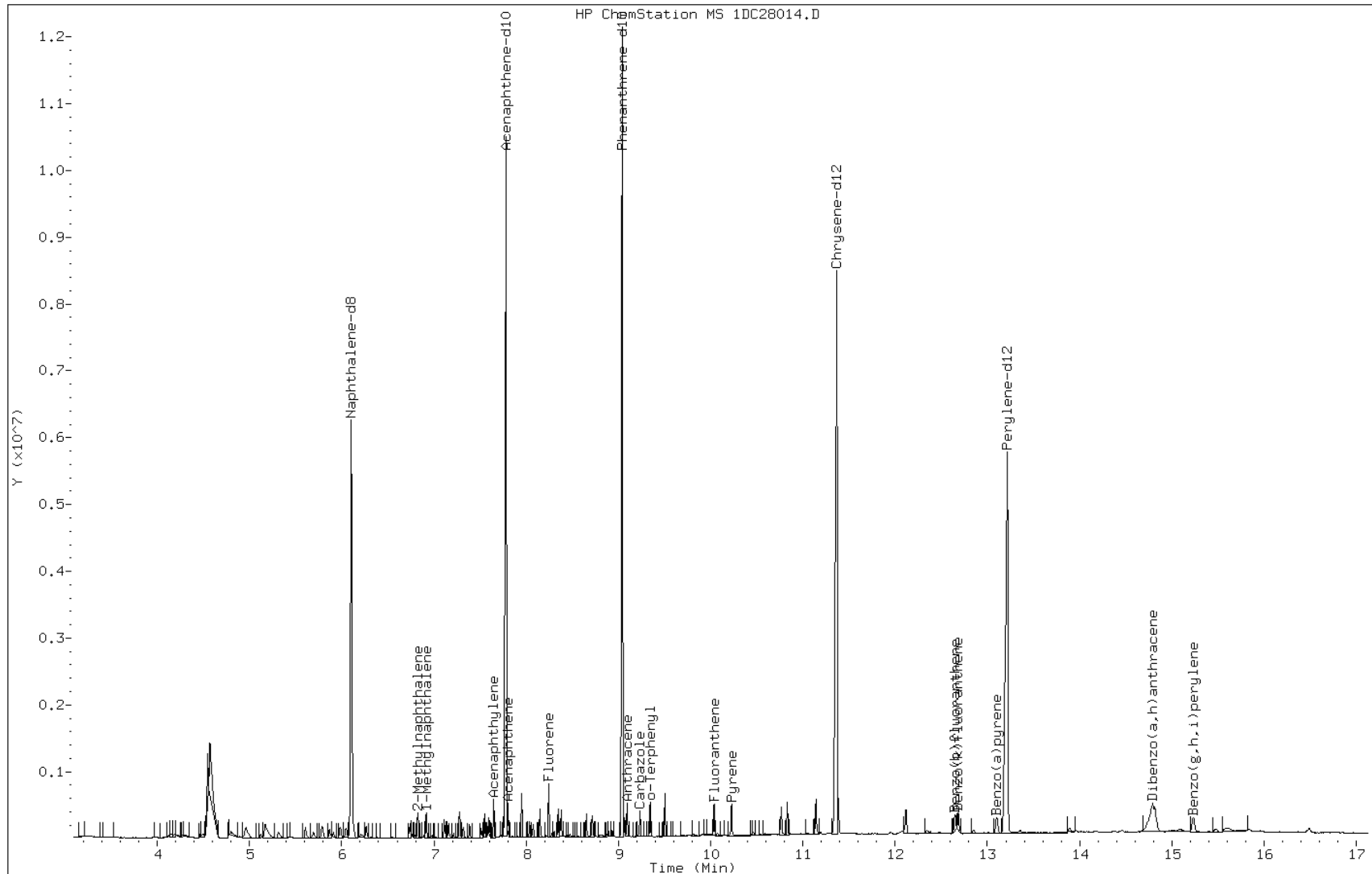
Date: 28-MAR-2013 16:50

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-B MS

Operator: SCC

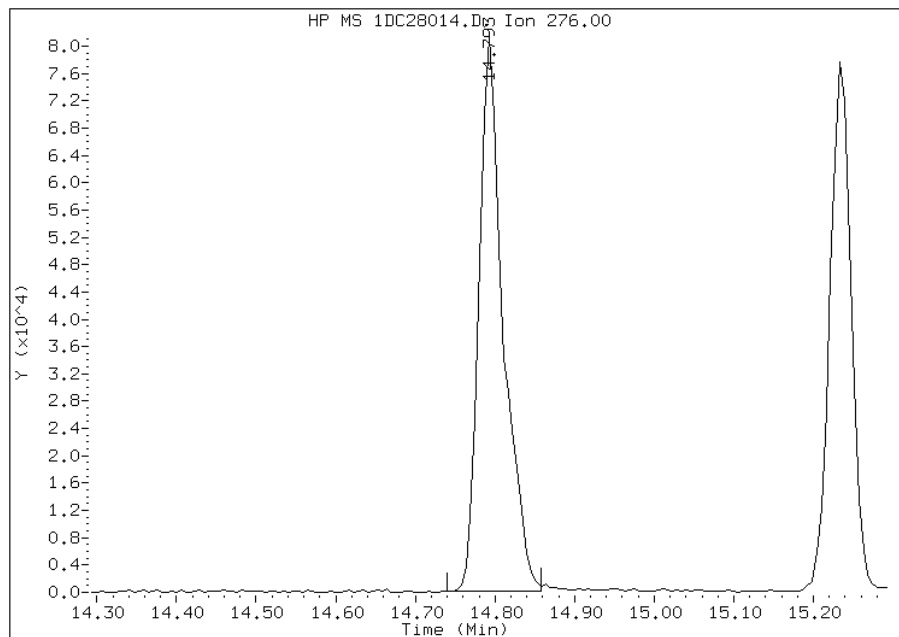


# Manual Integration Report

Data File: 1DC28014.D  
Inj. Date and Time: 28-MAR-2013 16:50  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

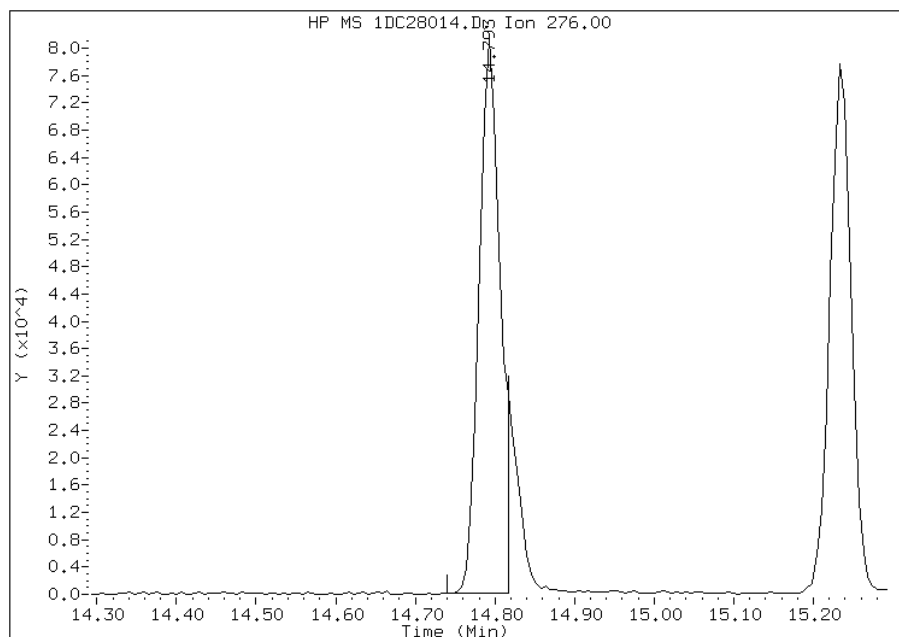
## Processing Integration Results

RT: 14.79  
Response: 171808  
Amount: 2  
Conc: 432



## Manual Integration Results

RT: 14.79  
Response: 149286  
Amount: 1  
Conc: 375



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:55  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0090B-CS-SP MS Lab Sample ID: 680-88632-10 MS  
 Matrix: Solid Lab File ID: 1CD01016.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:35  
 Extract. Method: 3546 Date Extracted: 03/27/2013 15:04  
 Sample wt/vol: 14.97(g) Date Analyzed: 04/01/2013 15:47  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 21.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	674		510	100
208-96-8	Acenaphthylene	736		200	26
120-12-7	Anthracene	936		43	21
56-55-3	Benzo[a]anthracene	2110		41	20
50-32-8	Benzo[a]pyrene	2020		53	27
205-99-2	Benzo[b]fluoranthene	2820		62	31
191-24-2	Benzo[g,h,i]perylene	1560		100	22
207-08-9	Benzo[k]fluoranthene	1490		41	18
218-01-9	Chrysene	2080		46	23
53-70-3	Dibenz(a,h)anthracene	1030		100	21
206-44-0	Fluoranthene	3460		100	20
86-73-7	Fluorene	698		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1420		100	36
90-12-0	1-Methylnaphthalene	1050		200	22
91-57-6	2-Methylnaphthalene	920		200	36
91-20-3	Naphthalene	783		200	22
85-01-8	Phenanthrene	2180		41	20
129-00-0	Pyrene	3030		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01016.D  
 Lab Smp Id: 680-88632-a-10-d ms  
 Inj Date : 01-APR-2013 15:47  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-10-d ms  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 16 QC Sample: MS  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.716	3.716	(1.000)	655029	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	516035	40.0000	
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	936821	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	26684	1.88654	504.0859
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1084495	40.0000	
* 23 Perylene-d12	264		8.868	8.886	(1.000)	1027644	40.0000	
2 Naphthalene	128		3.733	3.733	(1.005)	39183	2.29773	613.9572
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)	30711	2.69986	721.4064
4 1-Methylnaphthalene	142		4.222	4.222	(1.136)	31977	3.08661	824.7446
5 Acenaphthylene	152		4.716	4.716	(0.982)	44961	2.16108	577.4419
7 Acenaphthene	154		4.827	4.827	(1.005)	25598	1.97952	528.9298
9 Fluorene	166		5.145	5.145	(1.071)	33494	2.04805	547.2399
11 Phenanthrene	178		5.768	5.768	(1.003)	173368	6.40001	1710.0884(R)
12 Anthracene	178		5.804	5.804	(1.009)	72756	2.74628	733.8078

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910	(1.028)	55407	2.35273	628.6523
15 Fluoranthene	202	6.604	6.604	(1.148)	301652	10.1685	2717.0259(R)
16 Pyrene	202	6.774	6.774	(0.881)	259547	8.90560	2379.5859(R)
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	194276	6.20678	1658.4575(R)
19 Chrysene	228	7.710	7.715	(1.002)	191056	6.09932	1629.7455(R)
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.962)	222060	8.26849	2209.3506(R)
21 Benzo(k)fluoranthene	252	8.545	8.562	(0.964)	120550	4.37564	1169.1759(R)
22 Benzo(a)pyrene	252	8.815	8.827	(0.994)	154416	5.91947	1581.6882(R)
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.130)	102015	4.15715	1110.7944(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056	(1.132)	72477	3.01947	806.8050
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.169)	117335	4.57080	1221.3233(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD01016.D

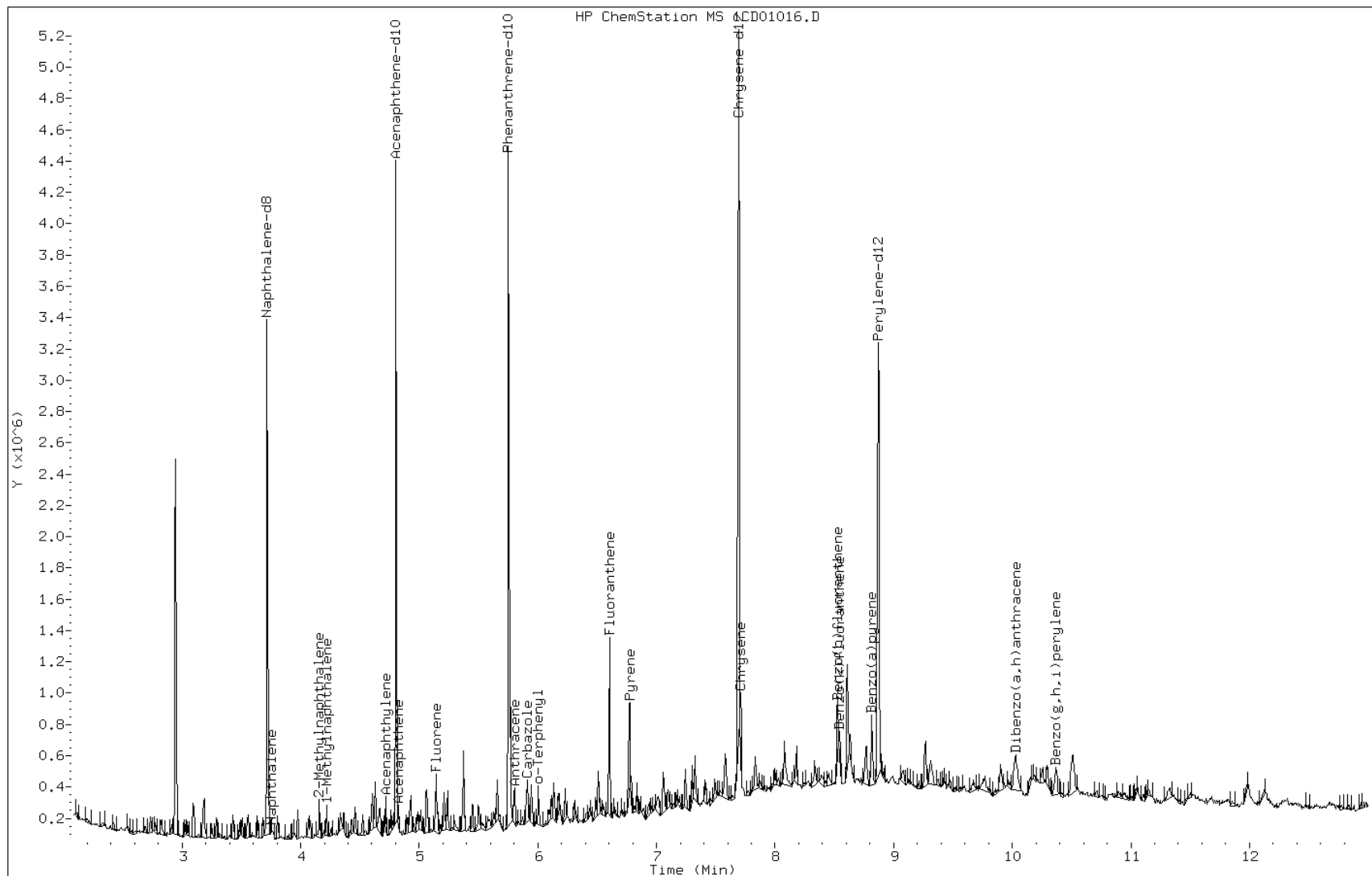
Date: 01-APR-2013 15:47

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-d ms

Operator: SCC

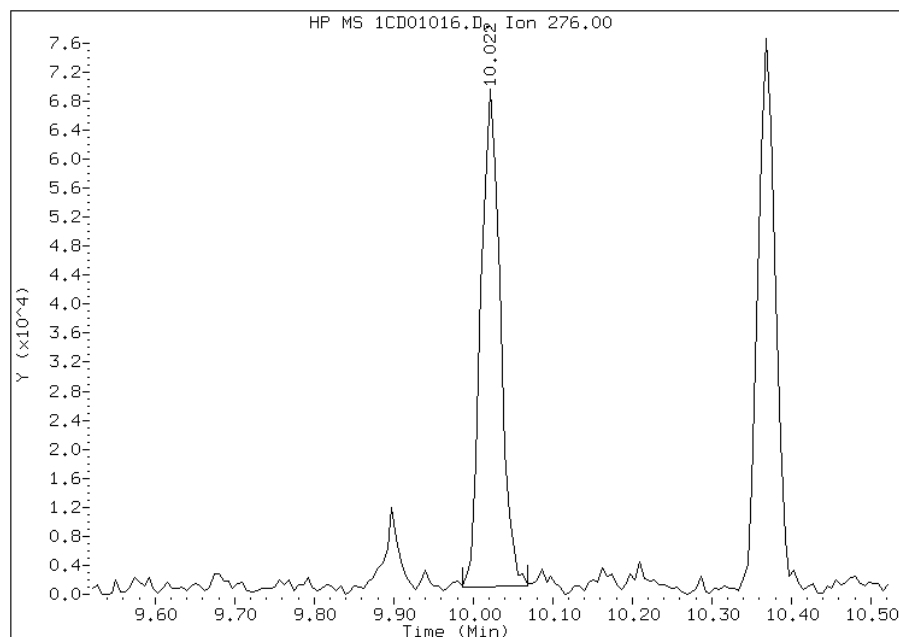


# Manual Integration Report

Data File: 1CD01016.D  
Inj. Date and Time: 01-APR-2013 15:47  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/03/2013

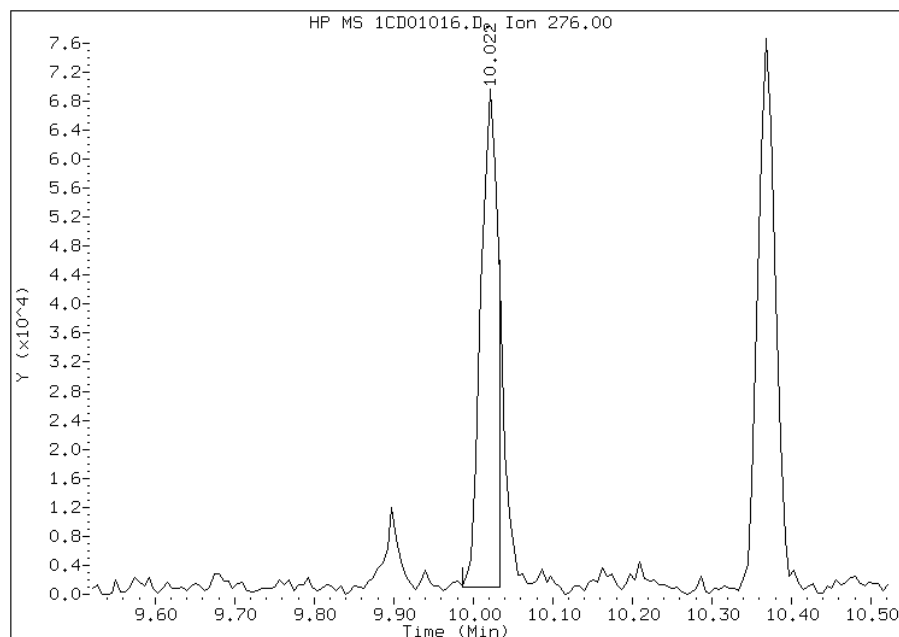
## Processing Integration Results

RT: 10.02  
Response: 115502  
Amount: 5  
Conc: 1258



## Manual Integration Results

RT: 10.02  
Response: 102015  
Amount: 4  
Conc: 1111



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:19  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-19-C MSD  
 Matrix: Solid Lab File ID: 1CC27010.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07  
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:57  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 33.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	616		600	120
208-96-8	Acenaphthylene	693		240	30
120-12-7	Anthracene	763		50	25
56-55-3	Benzo[a]anthracene	1550		48	23
50-32-8	Benzo[a]pyrene	1700		63	31
205-99-2	Benzo[b]fluoranthene	3480		73	37
191-24-2	Benzo[g,h,i]perylene	1900		120	26
207-08-9	Benzo[k]fluoranthene	1420		48	22
218-01-9	Chrysene	1760		54	27
53-70-3	Dibenz(a,h)anthracene	1010		120	25
206-44-0	Fluoranthene	1780		120	24
86-73-7	Fluorene	829		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1740		120	43
90-12-0	1-Methylnaphthalene	882		240	26
91-57-6	2-Methylnaphthalene	985		240	43
91-20-3	Naphthalene	946		240	26
85-01-8	Phenanthrene	1170		48	23
129-00-0	Pyrene	1580		120	22

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



TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032713.b\1CC27010.D  
 Lab Smp Id: 680-88592-a-19-c ms  
 Inj Date : 27-MAR-2013 12:57  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88592-a-19-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m  
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 10 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	715305	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	593203	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1086522	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	28340	1.72756	460.0695	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1295155	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1276318	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	43947	2.35994	628.4790	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	30517	2.45674	654.2580	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24908	2.20167	586.3295	
5 Acenaphthylene	152		4.727	4.727	(0.982)	41382	1.73030	460.7990	
7 Acenaphthene	154		4.833	4.833	(1.004)	22844	1.53675	409.2530	
9 Fluorene	166		5.157	5.157	(1.071)	38879	2.06806	550.7488	
11 Phenanthrene	178		5.780	5.780	(1.003)	91857	2.92376	778.6312	
12 Anthracene	178		5.815	5.815	(1.009)	58486	1.90347	506.9153	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921 (1.028)		52790	1.93276	514.7158
15 Fluoranthene	202	6.615	6.615 (1.148)		152697	4.43811	1181.9199(R)
16 Pyrene	202	6.780	6.786 (0.880)		137518	3.95105	1052.2104(R)
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)		144414	3.86333	1028.8503(R)
19 Chrysene	228	7.721	7.727 (1.002)		164193	4.38916	1168.8840(R)
20 Benzo(b)fluoranthene	252	8.539	8.539 (0.961)		289529	8.68025	2311.6498(R)
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		120811	3.53073	940.2748(R)
22 Benzo(a)pyrene	252	8.833	8.833 (0.994)		137173	4.23392	1127.5423(R)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050 (1.130)		132403	4.34423	1156.9195(RM)
25 Dibenzo(a,h)anthracene	278	10.062	10.068 (1.132)		75035	2.51697	670.2980
26 Benzo(g,h,i)perylene	276	10.392	10.397 (1.169)		151066	4.73822	1261.8434(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC27010.D

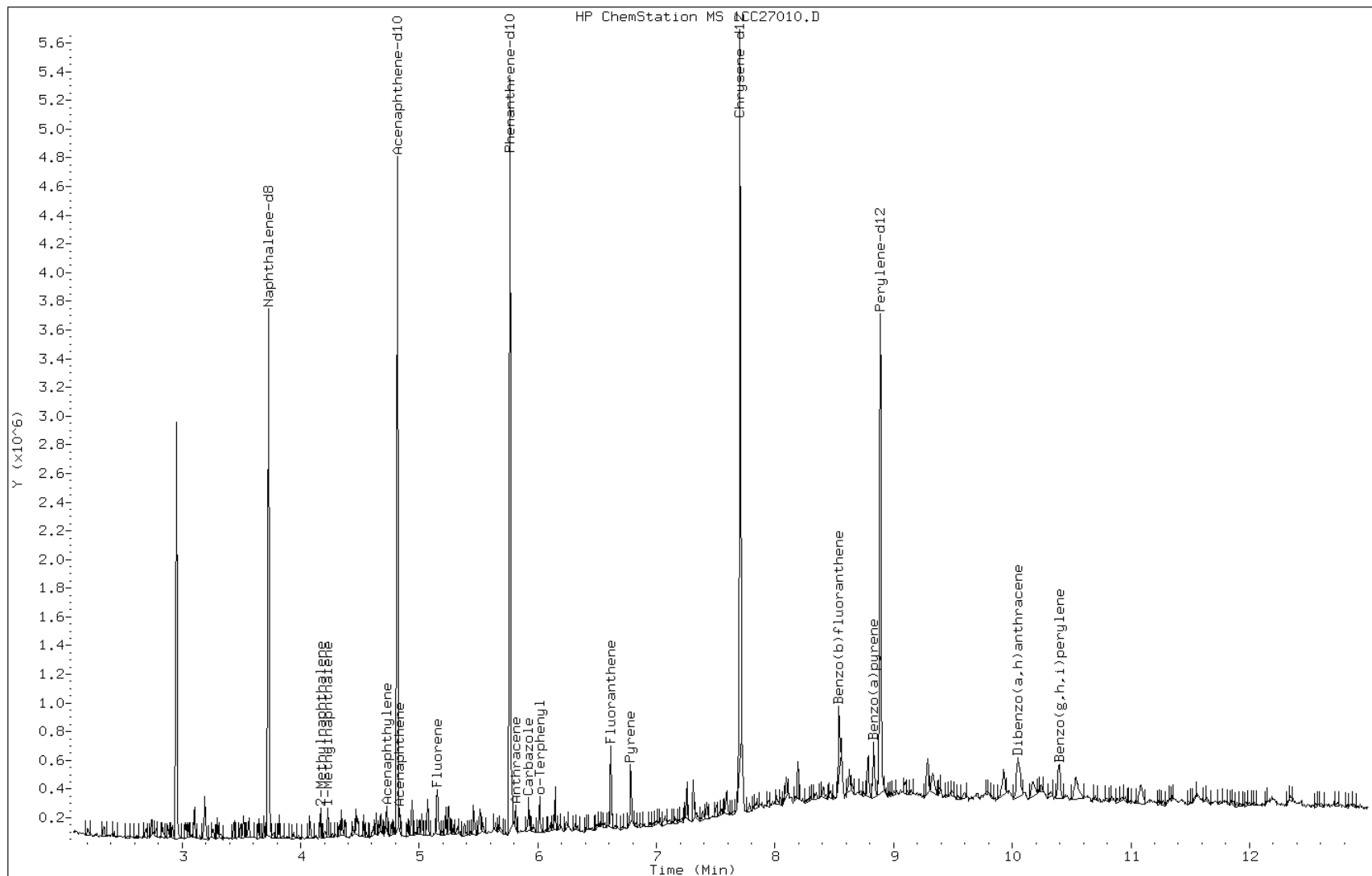
Date: 27-MAR-2013 12:57

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-c msd

Operator: SCC

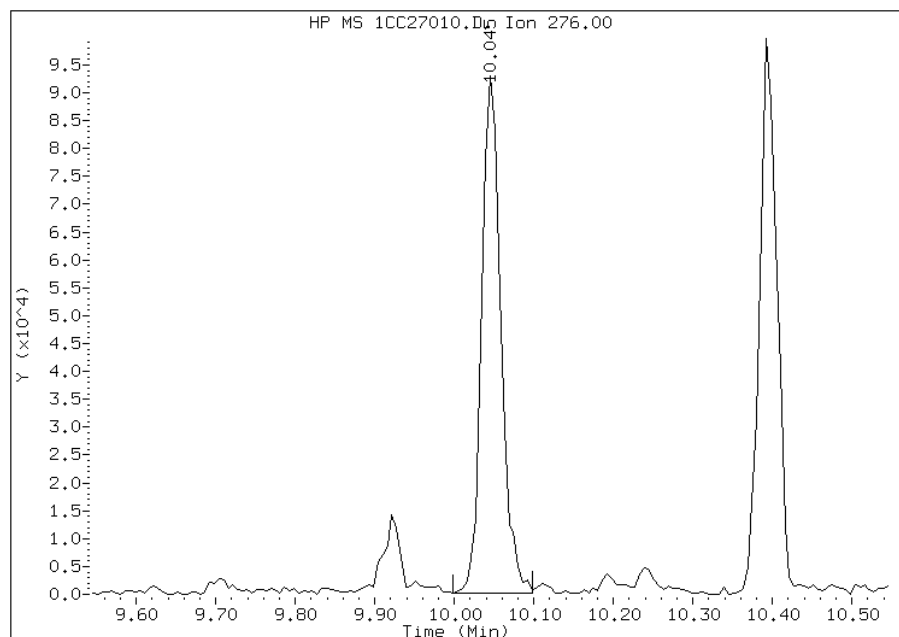


# Manual Integration Report

Data File: 1CC27010.D  
Inj. Date and Time: 27-MAR-2013 12:57  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 03/27/2013

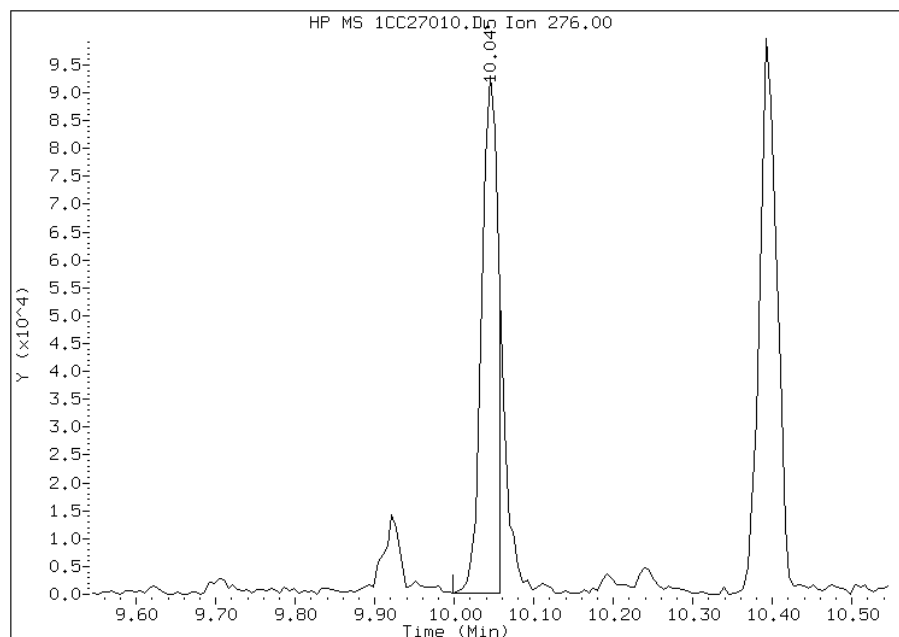
## Processing Integration Results

RT: 10.05  
Response: 154419  
Amount: 5  
Conc: 1349



## Manual Integration Results

RT: 10.05  
Response: 132403  
Amount: 4  
Conc: 1157



Manually Integrated By: cantins  
Modification Date: 27-Mar-2013 13:35  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 680-88592-A-21-C MSD  
 Matrix: Solid Lab File ID: 1DC28015.D  
 Analysis Method: 8270C LL Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/27/2013 11:19  
 Sample wt/vol: 14.54(g) Date Analyzed: 03/28/2013 17:12  
 Con. Extract Vol.: 1(mL) Dilution Factor: 4  
 Injection Volume: 1(uL) Level: (low/med) Low  
 % Moisture: 20.8 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 136038 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	536		520	100
208-96-8	Acenaphthylene	543		210	26
120-12-7	Anthracene	550		44	22
56-55-3	Benzo[a]anthracene	633		42	20
50-32-8	Benzo[a]pyrene	535		54	27
205-99-2	Benzo[b]fluoranthene	591		64	32
191-24-2	Benzo[g,h,i]perylene	564		100	23
207-08-9	Benzo[k]fluoranthene	571		42	19
218-01-9	Chrysene	558		47	23
53-70-3	Dibenz(a,h)anthracene	604		100	21
206-44-0	Fluoranthene	571		100	21
86-73-7	Fluorene	559		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	527		100	37
90-12-0	1-Methylnaphthalene	602		210	23
91-57-6	2-Methylnaphthalene	580		210	37
91-20-3	Naphthalene	552		210	23
85-01-8	Phenanthrene	553		42	20
129-00-0	Pyrene	552		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatle 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\1DC28015.D  
 Lab Smp Id: 680-88592-A-21-C MS  
 Inj Date : 28-MAR-2013 17:12  
 Operator : SCC Inst ID: BSMSD.i  
 Smp Info : 680-88592-A-21-C MSD  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032813.b\dFASTPAHi.m  
 Meth Date : 28-Mar-2013 15:20 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D  
 Als bottle: 15 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.750	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			
	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.101	6.102	(1.000)	3608549	40.0000	
* 6 Acenaphthene-d10	164	7.781	7.777	(1.000)	2329630	40.0000	
* 9 Phenanthrene-d10	188	9.039	9.040	(1.000)	3894748	40.0000	
\$ 13 o-Terphenyl	230	9.344	9.351	(1.034)	95434	1.58453	430
* 17 Chrysene-d12	240	11.365	11.373	(1.000)	3914233	40.0000	
* 22 Perylene-d12	264	13.222	13.223	(1.000)	4038676	40.0000	
2 Naphthalene	128	6.124	6.126	(1.004)	153450	1.58964	430
3 2-Methylnaphthalene	142	6.824	6.825	(1.118)	102636	1.66912	450
4 1-Methylnaphthalene	142	6.918	6.919	(1.134)	99805	1.73326	470
5 Acenaphthylene	152	7.646	7.653	(0.983)	160629	1.56394	420
7 Acenaphthene	154	7.805	7.806	(1.003)	96535	1.54151	420
8 Fluorene	166	8.245	8.247	(1.060)	117667	1.60818	440
10 Phenanthrene	178	9.056	9.064	(1.002)	175841	1.59047	430
11 Anthracene	178	9.097	9.099	(1.006)	175218	1.58401	430

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.233	9.240	(1.021)	141299	1.42890	390
14 Fluoranthene	202	10.037	10.045	(1.110)	189687	1.64407	440
15 Pyrene	202	10.226	10.233	(0.900)	193039	1.58990	430
16 Benzo(a)anthracene	228	11.342	11.349	(0.998)	195355	1.82297	490
18 Chrysene	228	11.383	11.396	(1.002)	177625	1.60551	440
19 Benzo(b)fluoranthene	252	12.652	12.671	(0.957)	176883	1.70154	460(H)
20 Benzo(k)fluoranthene	252	12.687	12.712	(0.960)	178821	1.64291	440
21 Benzo(a)pyrene	252	13.099	13.124	(0.991)	158281	1.53863	420
23 Indeno(1,2,3-cd)pyrene	276	14.791	14.827	(1.119)	166457	1.51624	410(M)
24 Dibenzo(a,h)anthracene	278	14.820	14.863	(1.121)	176315	1.73903	470
25 Benzo(g,h,i)perylene	276	15.237	15.280	(1.152)	169931	1.62347	440

QC Flag Legend

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

Data File: 1DC28015.D

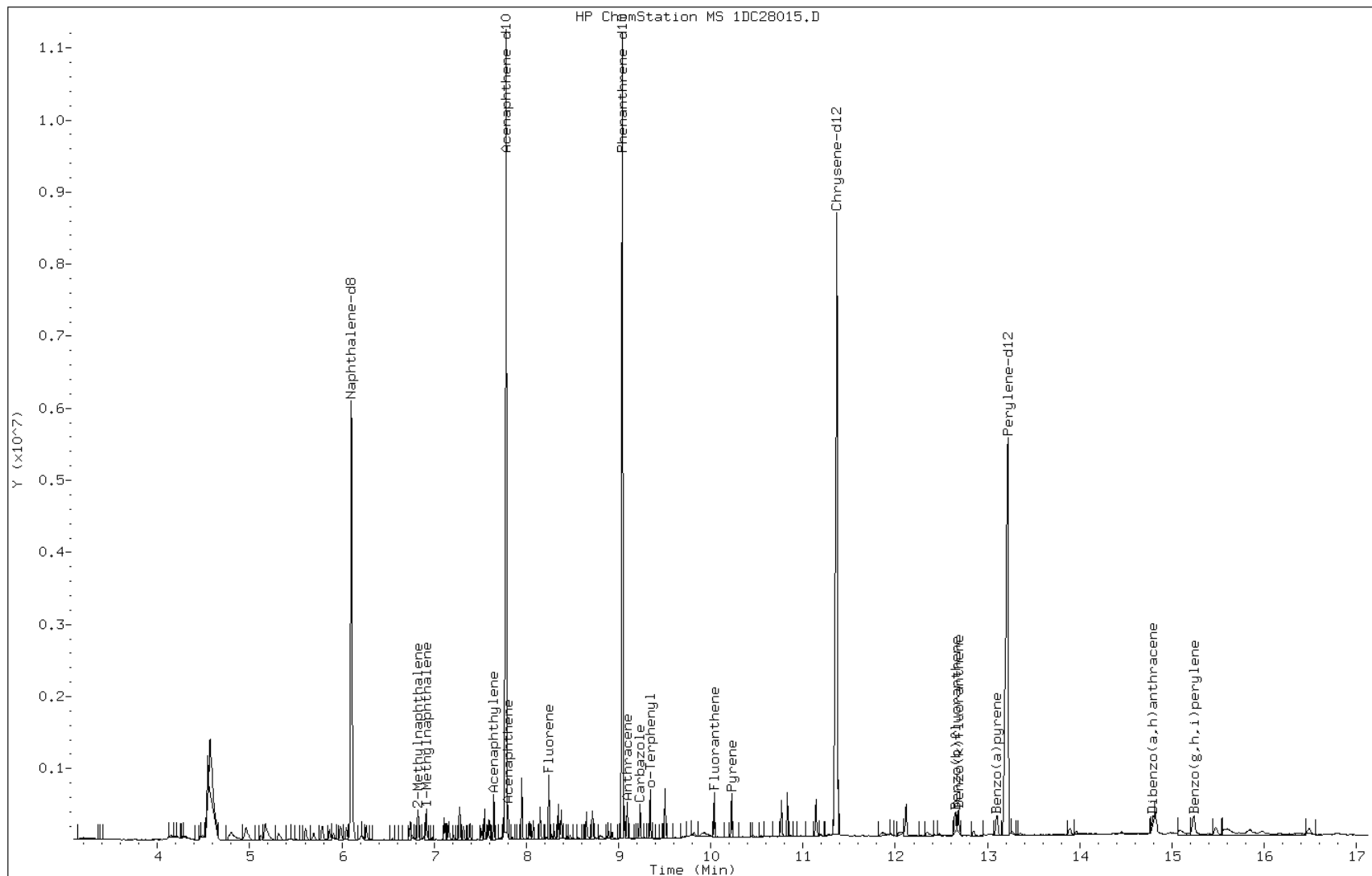
Date: 28-MAR-2013 17:12

Client ID:

Instrument: BSMSD.i

Sample Info: 680-88592-A-21-C MSD

Operator: SCC



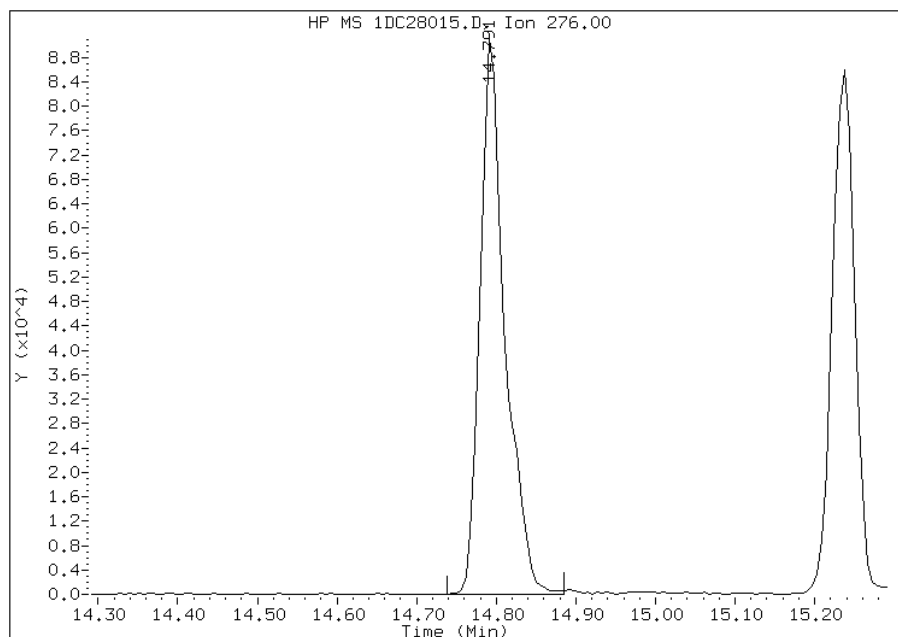


# Manual Integration Report

Data File: 1DC28015.D  
Inj. Date and Time: 28-MAR-2013 17:12  
Instrument ID: BSMSD.i  
Client ID:  
Compound: 23 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/02/2013

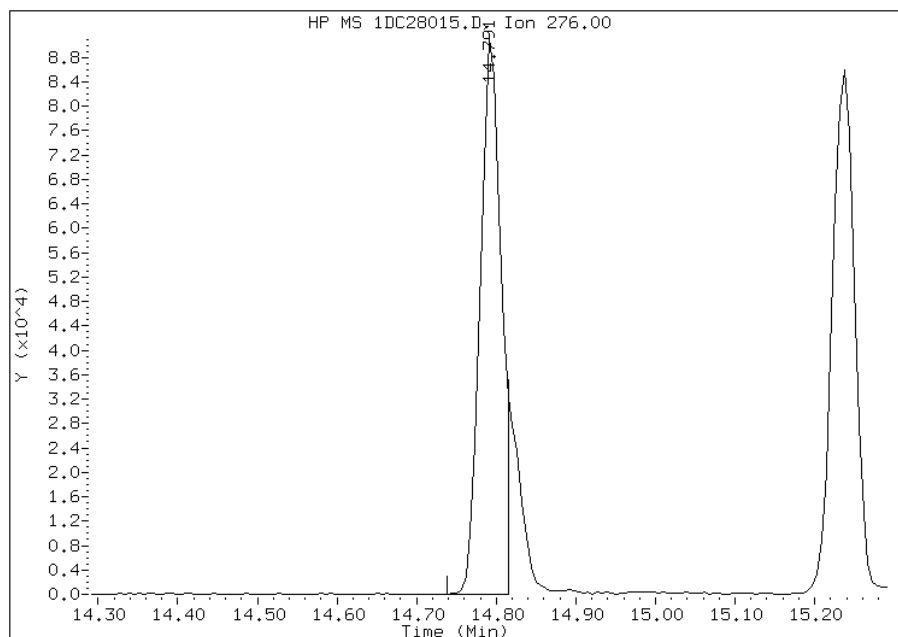
## Processing Integration Results

RT: 14.79  
Response: 197079  
Amount: 2  
Conc: 487



## Manual Integration Results

RT: 14.79  
Response: 166457  
Amount: 2  
Conc: 411



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 13:56  
Manual Integration Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1  
 SDG No.: 68088632-1  
 Client Sample ID: CV0090B-CS-SP MSD Lab Sample ID: 680-88632-10 MSD  
 Matrix: Solid Lab File ID: 1CD01017.D  
 Analysis Method: 8270C LL Date Collected: 03/21/2013 11:35  
 Extract. Method: 3546 Date Extracted: 03/27/2013 15:04  
 Sample wt/vol: 14.94 (g) Date Analyzed: 04/01/2013 16:05  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: 21.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	695		510	100
208-96-8	Acenaphthylene	844		200	26
120-12-7	Anthracene	1160		43	22
56-55-3	Benzo[a]anthracene	4010		41	20
50-32-8	Benzo[a]pyrene	3770		53	27
205-99-2	Benzo[b]fluoranthene	5430		62	31
191-24-2	Benzo[g,h,i]perylene	2480		100	23
207-08-9	Benzo[k]fluoranthene	2920		41	18
218-01-9	Chrysene	4100		46	23
53-70-3	Dibenz(a,h)anthracene	1210		100	21
206-44-0	Fluoranthene	6580		100	20
86-73-7	Fluorene	724		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	2460		100	36
90-12-0	1-Methylnaphthalene	816		200	23
91-57-6	2-Methylnaphthalene	621		200	36
91-20-3	Naphthalene	681		200	23
85-01-8	Phenanthrene	3080		41	20
129-00-0	Pyrene	6020		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01017.D  
 Lab Smp Id: 680-88632-a-10-c ms  
 Inj Date : 01-APR-2013 16:05  
 Operator : SCC Inst ID: BSMC5973.i  
 Smp Info : 680-88632-a-10-c msd  
 Misc Info : 4.0  
 Comment :  
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\a-bFASTPAHi-m.m  
 Meth Date : 01-Apr-2013 11:47 cantins Quant Type: ISTD  
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D  
 Als bottle: 17 QC Sample: MSD  
 Dil Factor: 4.00000  
 Integrator: HP RTE Compound Sublist: pah.sub  
 Target Version: 4.14  
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.716	3.716	(1.000)	691250	40.0000	
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	560459	40.0000	
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	1008510	40.0000	
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	24827	1.63048	436.5414
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1100421	40.0000	
* 23 Perylene-d12	264		8.874	8.886	(1.000)	1067194	40.0000	
2 Naphthalene	128		3.733	3.733	(1.005)	35894	1.99457	534.0216
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)	21851	1.82031	487.3645
4 1-Methylnaphthalene	142		4.222	4.222	(1.136)	26137	2.39070	640.0797
5 Acenaphthylene	152		4.716	4.716	(0.982)	55841	2.47128	661.6557
7 Acenaphthene	154		4.821	4.827	(1.004)	28581	2.03501	544.8488
9 Fluorene	166		5.145	5.145	(1.071)	37651	2.11975	567.5365
11 Phenanthrene	178		5.768	5.768	(1.003)	263314	9.02946	2417.5262(R)
12 Anthracene	178		5.804	5.804	(1.009)	96510	3.38395	906.0110(R)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.910	5.910 (1.028)		70891	2.79624	748.6599
15 Fluoranthene	202	6.604	6.604 (1.148)		615918	19.2863	5163.6653(R)
16 Pyrene	202	6.774	6.774 (0.881)		521557	17.6367	4722.0116(R)
17 Benzo(a)anthracene	228	7.686	7.692 (0.999)		372740	11.7360	3142.1803(R)
19 Chrysene	228	7.715	7.715 (1.003)		381538	12.0040	3213.9330(R)
20 Benzo(b)fluoranthene	252	8.527	8.539 (0.961)		443258	15.8932	4255.2140(R)
21 Benzo(k)fluoranthene	252	8.545	8.562 (0.963)		244848	8.55796	2291.2883(R)
22 Benzo(a)pyrene	252	8.815	8.827 (0.993)		299567	11.0582	2960.6909(R)
24 Indeno(1,2,3-cd)pyrene	276	10.027	10.039 (1.130)		183377	7.19574	1926.5711(RM)
25 Dibenzo(a,h)anthracene	278	10.039	10.056 (1.131)		88676	3.55742	952.4561(R)
26 Benzo(g,h,i)perylene	276	10.368	10.386 (1.168)		193725	7.26691	1945.6256(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD01017.D

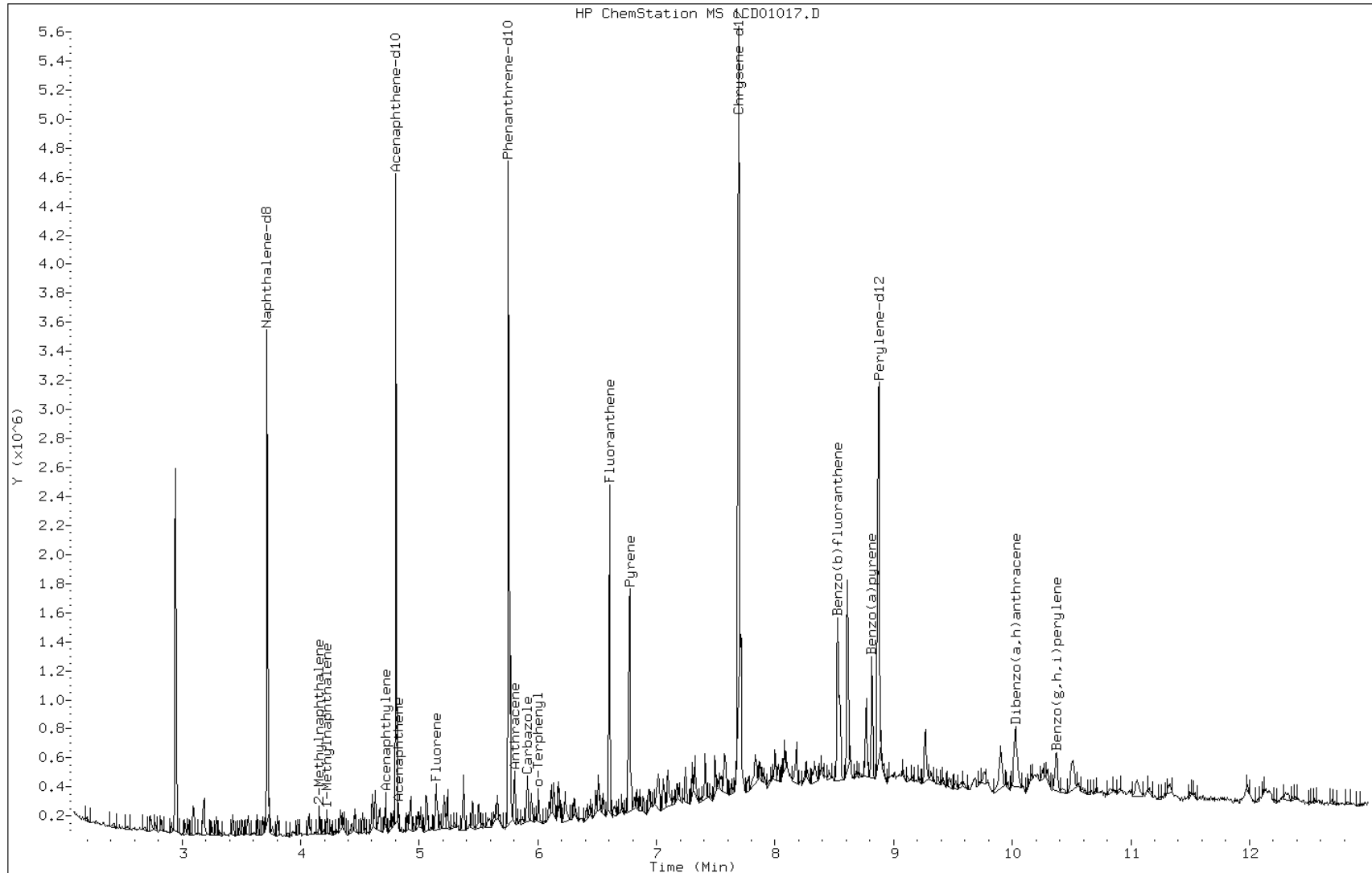
Date: 01-APR-2013 16:05

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88632-a-10-c msd

Operator: SCC

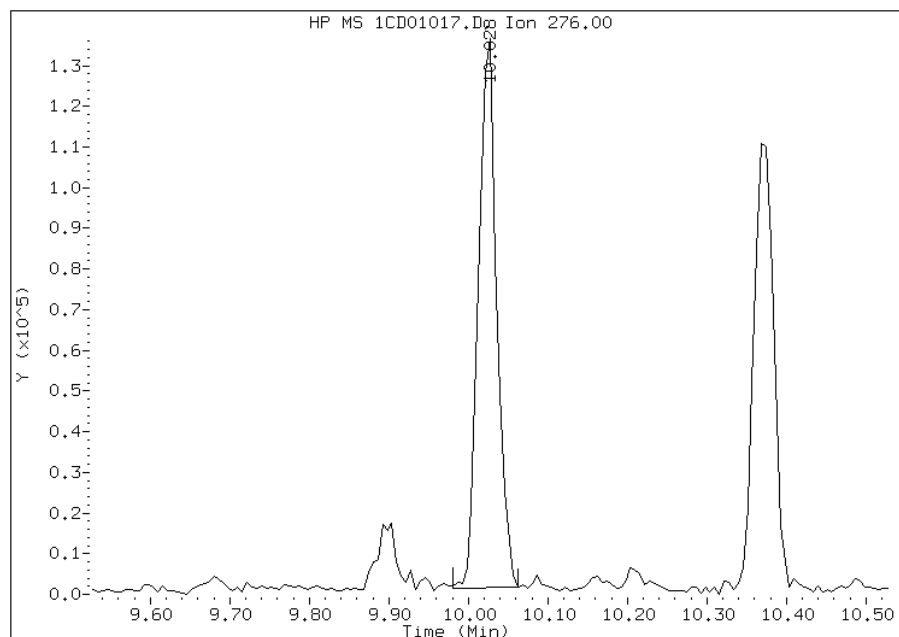


# Manual Integration Report

Data File: 1CD01017.D  
Inj. Date and Time: 01-APR-2013 16:05  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 04/03/2013

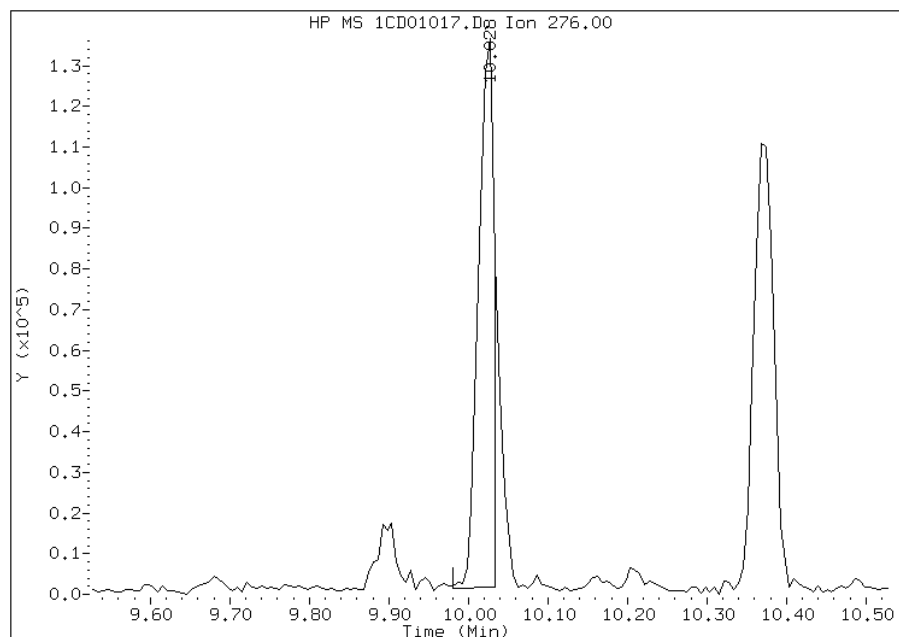
## Processing Integration Results

RT: 10.03  
Response: 213712  
Amount: 8  
Conc: 2245



## Manual Integration Results

RT: 10.03  
Response: 183377  
Amount: 7  
Conc: 1927



Manually Integrated By: cantins  
Modification Date: 02-Apr-2013 17:19  
Manual Integration Reason: Split Peak

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973Start Date: 03/27/2013 09:41Analysis Batch Number: 135830End Date: 03/27/2013 20:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/27/2013 09:41	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 09:59	1		DB-5MS 250 (um)
DFTPP 660-135830/2		03/27/2013 10:18	1	1CC27002.D	DB-5MS 250 (um)
CCVIS 660-135830/3		03/27/2013 10:35	1	1CC27003.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 10:53	1		DB-5MS 250 (um)
MB 660-135800/1-A		03/27/2013 11:26	1	1CC27005.D	DB-5MS 250 (um)
LCS 660-135800/2-A		03/27/2013 11:44	1	1CC27006.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:02	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:20	4		DB-5MS 250 (um)
680-88592-A-19-B MS		03/27/2013 12:39	4	1CC27009.D	DB-5MS 250 (um)
680-88592-A-19-C MSD		03/27/2013 12:57	4	1CC27010.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:15	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 13:52	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:11	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:29	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:47	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:05	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:24	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:42	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:00	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:18	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:37	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:55	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:13	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:31	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:49	4		DB-5MS 250 (um)
680-88632-1	CV0697A-CS	03/27/2013 18:08	1	1CC27027.D	DB-5MS 250 (um)
680-88632-2	CV0697B-CS	03/27/2013 18:26	4	1CC27028.D	DB-5MS 250 (um)
680-88632-3	FM0341A-CS	03/27/2013 18:44	4	1CC27029.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:21	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:58	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:16	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:53	1		DB-5MS 250 (um)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973Start Date: 03/28/2013 11:06Analysis Batch Number: 135902End Date: 03/28/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:06	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 11:24	1		DB-5MS 250 (um)
DFTPP 660-135902/2		03/28/2013 11:42	1	1CC28002.D	DB-5MS 250 (um)
CCVIS 660-135902/3		03/28/2013 11:59	1	1CC28003.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:20	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:38	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:56	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:14	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:51	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:10	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:28	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:46	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:04	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:23	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:41	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:59	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:18	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:36	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:54	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:12	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:31	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:08	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:26	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 18:44	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:21	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:16	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 20:52	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:11	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:29	4		DB-5MS 250 (um)
680-88632-17	CV0368A-CS-SP	03/28/2013 21:47	1	1CC28035.D	DB-5MS 250 (um)
680-88632-18	CV0368B-CS-SP	03/28/2013 22:06	4	1CC28036.D	DB-5MS 250 (um)
680-88632-19	CV0443A-CS-SP	03/28/2013 22:24	1	1CC28037.D	DB-5MS 250 (um)
680-88632-20	CV0443B-CS-SP	03/28/2013 22:42	1	1CC28038.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:00	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:37	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMC5973Start Date: 04/01/2013 10:38Analysis Batch Number: 135996End Date: 04/01/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/01/2013 10:38	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 10:56	1		DB-5MS 250 (um)
DFTPP 660-135996/2		04/01/2013 11:14	1	1CD01002.D	DB-5MS 250 (um)
CCVIS 660-135996/3		04/01/2013 11:31	1	1CD01003.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 11:52	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:11	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:29	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 12:47	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:06	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:24	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 13:42	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 14:15	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 14:33	4		DB-5MS 250 (um)
MB 660-135843/1-A		04/01/2013 14:52	1	1CD01013.D	DB-5MS 250 (um)
LCS 660-135843/2-A		04/01/2013 15:10	1	1CD01014.D	DB-5MS 250 (um)
680-88632-10	CV0090B-CS-SP	04/01/2013 15:28	4	1CD01015.D	DB-5MS 250 (um)
680-88632-10 MS	CV0090B-CS-SP MS	04/01/2013 15:47	4	1CD01016.D	DB-5MS 250 (um)
680-88632-10 MSD	CV0090B-CS-SP MSD	04/01/2013 16:05	4	1CD01017.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 16:23	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 16:41	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:00	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:18	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:37	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 17:55	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:13	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:31	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 18:50	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:08	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:26	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 19:44	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:03	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:21	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:39	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 20:58	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:16	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:34	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:53	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973 Start Date: 02/22/2013 11:10Analysis Batch Number: 134781 End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250 (um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250 (um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250 (um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250 (um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250 (um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250 (um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250 (um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250 (um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250 (um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250 (um)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88632-1SDG No.: 68088632-1Instrument ID: BSMD5973Start Date: 03/28/2013 11:09Analysis Batch Number: 136038End Date: 03/28/2013 21:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:09	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 11:35	1		DB-5MS 250 (um)
DFTPP 660-136038/2		03/28/2013 12:00	1	1DC28002.D	DB-5MS 250 (um)
CCVIS 660-136038/3		03/28/2013 12:18	1		DB-5MS 250 (um)
CCV 660-136038/4		03/28/2013 12:53	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:18	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:45	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:11	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:35	1		DB-5MS 250 (um)
CCVIS 660-136038/9		03/28/2013 14:57	1	1DC28009.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:20	1		DB-5MS 250 (um)
MB 660-135822/1-A		03/28/2013 15:42	1	1DC28011.D	DB-5MS 250 (um)
LCS 660-135822/2-A		03/28/2013 16:05	1	1DC28012.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:27	4		DB-5MS 250 (um)
680-88592-A-21-B MS		03/28/2013 16:50	4	1DC28014.D	DB-5MS 250 (um)
680-88592-A-21-C MSD		03/28/2013 17:12	4	1DC28015.D	DB-5MS 250 (um)
680-88632-4	FM0341B-CS	03/28/2013 17:35	4	1DC28016.D	DB-5MS 250 (um)
680-88632-5	FM0341C-GS	03/28/2013 17:57	1	1DC28017.D	DB-5MS 250 (um)
680-88632-6	FM0343A-CS	03/28/2013 18:20	1	1DC28018.D	DB-5MS 250 (um)
680-88632-7	FM0343A-CSD	03/28/2013 18:42	1	1DC28019.D	DB-5MS 250 (um)
680-88632-8	FM0343B-CS	03/28/2013 19:05	4	1DC28020.D	DB-5MS 250 (um)
680-88632-9	CV0090A-CS-SP	03/28/2013 19:27	4	1DC28021.D	DB-5MS 250 (um)
680-88632-11	CV0092A-CS-SP	03/28/2013 19:50	4	1DC28022.D	DB-5MS 250 (um)
680-88632-12	CV0092B-CS-SP	03/28/2013 20:12	1	1DC28023.D	DB-5MS 250 (um)
680-88632-13	FM0312A-CS-SP	03/28/2013 20:35	1	1DC28024.D	DB-5MS 250 (um)
680-88632-14	FM0312B-CS-SP	03/28/2013 20:57	1	1DC28025.D	DB-5MS 250 (um)
680-88632-15	FM0312C-CS-SP	03/28/2013 21:20	1	1DC28026.D	DB-5MS 250 (um)
680-88632-16	FM0312D-CS-SP	03/28/2013 21:42	1	1DC28027.D	DB-5MS 250 (um)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Batch Number: 135800 Batch Start Date: 03/26/13 16:07 Batch Analyst:Batch Method: 3546 Batch End Date: 04/03/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135800/1		3546, 8270C LL		15.02 g	1 mL		1 mL
LCS 660-135800/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL
680-88592-A-19 MS		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL
680-88592-A-19 MSD		3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL
680-88632-A-1	CV0697A-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL
680-88632-A-2	CV0697B-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL
680-88632-A-3	FM0341A-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL

## Batch Notes

Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	17:40 3/26/13
Microwave Stop Time	18:15 3/26/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Batch Number: 135822 Batch Start Date: 03/27/13 11:19 Batch Analyst:Batch Method: 3546 Batch End Date: 03/27/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135822/1		3546, 8270C LL		15.15 g	1 mL		1 mL
LCS 660-135822/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL
680-88592-A-21 MS		3546, 8270C LL	T	14.75 g	1 mL	1 mL	1 mL
680-88592-A-21 MSD		3546, 8270C LL	T	14.54 g	1 mL	1 mL	1 mL
680-88632-A-4	FM0341B-CS	3546, 8270C LL	T	14.88 g	1 mL		1 mL
680-88632-A-5	FM0341C-GS	3546, 8270C LL	T	15.14 g	1 mL		1 mL
680-88632-A-6	FM0343A-CS	3546, 8270C LL	T	14.80 g	1 mL		1 mL
680-88632-A-7	FM0343A-CSD	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-88632-A-8	FM0343B-CS	3546, 8270C LL	T	14.78 g	1 mL		1 mL
680-88632-A-9	CV0090A-CS-SP	3546, 8270C LL	T	14.74 g	1 mL		1 mL
680-88632-A-11	CV0092A-CS-SP	3546, 8270C LL	T	14.80 g	1 mL		1 mL
680-88632-A-12	CV0092B-CS-SP	3546, 8270C LL	T	14.81 g	1 mL		1 mL
680-88632-A-13	FM0312A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL
680-88632-A-14	FM0312B-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL
680-88632-A-15	FM0312C-CS-SP	3546, 8270C LL	T	15.23 g	1 mL		1 mL
680-88632-A-16	FM0312D-CS-SP	3546, 8270C LL	T	15.20 g	1 mL		1 mL
680-88632-A-17	CV0368A-CS-SP	3546, 8270C LL	T	14.87 g	1 mL		1 mL
680-88632-A-18	CV0368B-CS-SP	3546, 8270C LL	T	15.22 g	1 mL		1 mL
680-88632-A-19	CV0443A-CS-SP	3546, 8270C LL	T	15.42 g	1 mL		1 mL
680-88632-A-20	CV0443B-CS-SP	3546, 8270C LL	T	15.09 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 this reagent.

8270C LL





## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Batch Number: 135822 Batch Start Date: 03/27/13 11:19 Batch Analyst:Batch Method: 3546 Batch End Date: 03/27/13 16:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55/ EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	12:00 3/27/13
Microwave Stop Time	12:35 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL



## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1SDG No.: 68088632-1Batch Number: 135843 Batch Start Date: 03/27/13 15:04 Batch Analyst:Batch Method: 3546 Batch End Date: 03/28/13 10:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-135843/1		3546, 8270C LL		15.09 g	1 mL		1 mL
LCS 660-135843/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL
680-88632-A-10	CV0090B-CS-SP	3546, 8270C LL	T	14.99 g	1 mL		1 mL
680-88632-A-10 MS	CV0090B-CS-SP	3546, 8270C LL	T	14.97 g	1 mL	1 mL	1 mL
680-88632-A-10 MSD	CV0090B-CS-SP	3546, 8270C LL	T	14.94 g	1 mL	1 mL	1 mL

## Batch Notes

Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RN
Exchange Solvent Lot #	EX-DCM BOT 24
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
Sulfuric Acid Lot Number	N/.A
Hydromatrix Lot #	N./A
MeCl2 Lot #	EX-DCM BOT 24
MeCl2/Acetone Lot #	DCM/ACETON 54
Microwave Start Time	16:30 3/27/13
Microwave Stop Time	17:05 3/27/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT178
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

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# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88632-1

SDG No.: 68088632-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0697A-CS	680-88632-1
CV0697B-CS	680-88632-2
FM0341A-CS	680-88632-3
FM0341B-CS	680-88632-4
FM0341C-GS	680-88632-5
FM0343A-CS	680-88632-6
FM0343A-CSD	680-88632-7
FM0343B-CS	680-88632-8
CV0090A-CS-SP	680-88632-9
CV0090B-CS-SP	680-88632-10
CV0092A-CS-SP	680-88632-11
CV0092B-CS-SP	680-88632-12
FM0312A-CS-SP	680-88632-13
FM0312B-CS-SP	680-88632-14
FM0312C-CS-SP	680-88632-15
FM0312D-CS-SP	680-88632-16
CV0368A-CS-SP	680-88632-17
CV0368B-CS-SP	680-88632-18
CV0443A-CS-SP	680-88632-19
CV0443B-CS-SP	680-88632-20

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88632-1  
SDG Number: 68088632-1  
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: 680-88632-1  
SDG Number: 68088632-1  
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: 680-88632-1  
SDG Number: 68088632-1  
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: 680-88632-1  
SDG Number: 68088632-1  
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.: 680-88632-1

SDG No.: 68088632-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/26/2013 06:22 End Date: 03/26/2013 14:16

Lab Sample ID	D / F	Type	Time	Analytes															
				M	O	i	s	t											
LCSD 660-135794/11	1	T	06:22	X															
LCS 660-135794/1	1	T	06:24	X															
ZZZZZZ			12:21																
ZZZZZZ			12:23																
ZZZZZZ			12:39																
ZZZZZZ			12:46																
680-88632-4	1	T	12:57	X															
ZZZZZZ			13:15																
ZZZZZZ			13:17																
ZZZZZZ			14:15																
ZZZZZZ			14:16																

Prep Types  
T = Total/NA



13-IN  
 ANALYSIS RUN LOG  
 GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88632-1

SDG No.: 68088632-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2013 12:38 End Date: 03/26/2013 12:38

Lab Sample ID	D / F	T y p e	Time	Analytes																
				M o i s t																
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	
zzzzzz			12:38																	

Prep Types  
 T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1

SDG No.: 68088632-1

Batch Number: 135786 Batch Start Date: 03/26/13 12:38 Batch Analyst:

Batch Method: Moisture Batch End Date: 03/27/13 06:47

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-88632-A-5	FM0341C-GS	Moisture	T	2	0 g	4.42 g	3.44 g
680-88632-A-45		Moisture	T	4	0 g	4.30 g	3.53 g
MS							
680-88632-A-45		Moisture	T	4	0 g	4.30 g	3.53 g
MSD							
680-88632-A-1	CV0697A-CS	Moisture	T	5	0 g	4.60 g	3.62 g
680-88632-A-21		Moisture	T	6	0 g	4.88 g	3.98 g
MS							
680-88632-A-21		Moisture	T	6	0 g	4.88 g	3.98 g
MSD							
680-88632-A-20	CV0443B-CS-SP	Moisture	T	8	0 g	5.29 g	3.96 g
680-88632-A-10	CV0090B-CS-SP	Moisture	T	10	0 g	4.73 g	3.71 g
680-88632-A-10	CV0090B-CS-SP	Moisture	T	10	0 g	4.73 g	3.71 g
MS							
680-88632-A-10	CV0090B-CS-SP	Moisture	T	10	0 g	4.73 g	3.71 g
MSD							
680-88632-A-3	FM0341A-CS	Moisture	T	11	0 g	4.80 g	3.88 g
680-88632-A-2	CV0697B-CS	Moisture	T	12	0 g	4.45 g	3.54 g
680-88632-A-6	FM0343A-CS	Moisture	T	13	0 g	4.15 g	3.65 g
680-88632-A-11	CV0092A-CS-SP	Moisture	T	16	0 g	4.68 g	3.98 g
680-88632-A-12	CV0092B-CS-SP	Moisture	T	17	0 g	4.47 g	3.31 g
680-88632-A-7	FM0343A-CSD	Moisture	T	18	0 g	4.31 g	3.76 g
680-88632-A-9	CV0090A-CS-SP	Moisture	T	19	0 g	4.16 g	3.25 g
680-88632-A-14	FM0312B-CS-SP	Moisture	T	20	0 g	4.11 g	3.09 g
680-88632-A-18	CV0368B-CS-SP	Moisture	T	22	0 g	4.47 g	4.03 g
680-88632-A-19	CV0443A-CS-SP	Moisture	T	23	0 g	4.11 g	3.39 g
680-88632-A-15	FM0312C-CS-SP	Moisture	T	24	0 g	4.39 g	3.59 g
680-88632-A-13	FM0312A-CS-SP	Moisture	T	25	0 g	4.49 g	3.22 g
680-88632-A-17	CV0368A-CS-SP	Moisture	T	26	0 g	4.43 g	3.41 g
680-88632-A-16	FM0312D-CS-SP	Moisture	T	27	0 g	4.32 g	3.39 g
680-88632-A-8	FM0343B-CS	Moisture	T	28	0 g	4.74 g	3.77 g

Batch Notes

Balance ID	2 No Unit
Date samples were placed in the oven	3.26.13
Date samples were removed from oven	3.27.13

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 this reagent.

Moisture



GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88632-1

SDG No.: 68088632-1

Batch Number: 135794 Batch Start Date: 03/26/13 06:22 Batch Analyst:

Batch Method: Moisture Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry	
LCS 660-135794/1		Moisture		0 g	10.019 g	9.01 g	
680-88632-A-4	FM0341B-CS	Moisture	T	0 g	4.242 g	3.422 g	
LCSD 660-135794/11		Moisture		0 g	10.034 g	9.028 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 this reagent.

Moisture



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|

# **Shipping and Receiving Documents**

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <b>35<sup>th</sup> Ave Removal</b>	PROJECT NO. <b>200548-1356</b>	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS						PAGE <b>1</b> OF <b>4</b>
TAL (LAB) PROJECT MANAGER <b>Lisa Harvey</b>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	ROA 8 Metals	PRESERVATIVE				STANDARD REPORT DELIVERY <input type="radio"/>
CLIENT PHONE	CLIENT FAX	DATE DUE _____								
CLIENT E-MAIL	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____								
CLIENT ADDRESS <b>(b) (6)</b>	COMPANY CONTACT								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

(b) (6)  
(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED						REMARKS
DATE	TIME													
3-21-13	0825	CVD697A-CS	C	X			X							
	0840	CV0697B-CS	C	X										
	1130	Fm0341A-CS	C	X										
	1145	Fm0341B-CS	C	X										
	1154	Fm0341C-GS	G	X										
	1030	Fm0343A-CS	C	X										
	1030	Fm0343A-CSD	C	X										
	1050	Fm0343B-CS	C	X										
	1123	CV0090A-CS-SP	C	X										
	1135	CV0090B-CS-SP	C	X			X							
	1046	CV0092A-CS-SP	C	X										
	1055	CV0092B-CS-SP	C	X										

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-22-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/23/13	TIME 0939	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 08632	LABORATORY REMARKS 1.2 <sup>c</sup>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>4</i>
--	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
---	-------------	--------------	------------	--	----------------

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<i>LLPAH</i> <i>PCPA8 Metals</i>	PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	REMARKS

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
------	------	-----------------------	------------------------------------	-----------------	--------------------	-----	---------------------------------------	--------------------------------	---------

3-21-13	0929	FM0312A-CS-SP	C	X			X		
	0932	FM0312B-CS-SP	C	X			X		
	0951	FM0312C-CS-SP	C	X			X		
	0945	FM0312D-CS-SP	C	X			X		
	0816	FM0368A-CS-SP CV0368A-CS-SP	C	X			X		
	0832	FM0368B-CS-SP CV0368B-CS-SP	C	X			X		
	1457	CV0443A-CS-SP	C	X			X		
	1459	CV0443B-CS-SP	C	X			X		
	1535	CV0476A-CS-SP	C	X			X		
	1544	CV0476B-CS-SP	C	X			X		
	1601	CV0566A-CS-SP	C	X			X	X	
	1610	CV0566B-CS-SP	C	X			X		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-22-13	TIME 1130	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/23/13	TIME 0939	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>58632</i>	LABORATORY REMARKS <i>1.2c</i>
---	------------------	--------------	---	------------------	----------------------------------	-----------------------------------

(b) (6)  
(b) (6)

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

SDG Number: 68088632-1

**Login Number: 88632**  
**List Number: 1**  
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-88632-1

SDG Number: 68088632-1

**Login Number: 88632**

**List Source: TestAmerica Tampa**

**List Number: 1**

**List Creation: 03/26/13 12:20 PM**

**Creator: McNulty, Carol**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88632-1

TestAmerica Sample Delivery Group: 68088632-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/4/2013 6:58:15 AM

Bernard Kirkland

Project Manager I

[bernard.kirkland@testamericainc.com](mailto:bernard.kirkland@testamericainc.com)

Designee for

Lisa Harvey

Project Manager II

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

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



### LINKS

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results through

Total Access

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[www.testamericainc.com](http://www.testamericainc.com)

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# Case Narrative

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

**Job ID: 680-88632-1**

**Laboratory: TestAmerica Savannah**

Narrative

## CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-88632-1**

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

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

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

### RECEIPT

The samples were received on 03/23/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0697A-CS (680-88632-1), CV0697B-CS (680-88632-2), FM0341A-CS (680-88632-3), FM0341B-CS (680-88632-4), FM0341C-GS (680-88632-5), FM0343A-CS (680-88632-6), FM0343A-CSD (680-88632-7), FM0343B-CS (680-88632-8), CV0090A-CS-SP (680-88632-9), CV0090B-CS-SP (680-88632-10), CV0092A-CS-SP (680-88632-11), CV0092B-CS-SP (680-88632-12), FM0312A-CS-SP (680-88632-13), FM0312B-CS-SP (680-88632-14), FM0312C-CS-SP (680-88632-15), FM0312D-CS-SP (680-88632-16), CV0368A-CS-SP (680-88632-17), CV0368B-CS-SP (680-88632-18), CV0443A-CS-SP (680-88632-19) and CV0443B-CS-SP (680-88632-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/26/2013 and 03/27/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV0697B-CS (680-88632-2)[4X], FM0341A-CS (680-88632-3)[4X], FM0341B-CS (680-88632-4)[4X], FM0343B-CS (680-88632-8)[4X], CV0090A-CS-SP (680-88632-9)[4X], CV0090B-CS-SP (680-88632-10)[4X], CV0092A-CS-SP (680-88632-11)[4X] and CV0368B-CS-SP (680-88632-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0090B-CS-SP (680-88632-10) in batch 660-135996. Several analytes also exceeded the rpd limit.

Benzo[b]fluoranthene recovered outside the recovery criteria for the MSD of sample 680-88592-19 in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88592-21 in batch 660-136038.

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

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.



# Sample Summary

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88632-1	CV0697A-CS	Solid	03/21/13 08:25	03/23/13 09:39
680-88632-2	CV0697B-CS	Solid	03/21/13 08:40	03/23/13 09:39
680-88632-3	FM0341A-CS	Solid	03/21/13 11:30	03/23/13 09:39
680-88632-4	FM0341B-CS	Solid	03/21/13 11:45	03/23/13 09:39
680-88632-5	FM0341C-GS	Solid	03/21/13 11:54	03/23/13 09:39
680-88632-6	FM0343A-CS	Solid	03/21/13 10:30	03/23/13 09:39
680-88632-7	FM0343A-CSD	Solid	03/21/13 10:30	03/23/13 09:39
680-88632-8	FM0343B-CS	Solid	03/21/13 10:50	03/23/13 09:39
680-88632-9	CV0090A-CS-SP	Solid	03/21/13 11:23	03/23/13 09:39
680-88632-10	CV0090B-CS-SP	Solid	03/21/13 11:35	03/23/13 09:39
680-88632-11	CV0092A-CS-SP	Solid	03/21/13 10:46	03/23/13 09:39
680-88632-12	CV0092B-CS-SP	Solid	03/21/13 10:55	03/23/13 09:39
680-88632-13	FM0312A-CS-SP	Solid	03/21/13 09:29	03/23/13 09:39
680-88632-14	FM0312B-CS-SP	Solid	03/21/13 09:32	03/23/13 09:39
680-88632-15	FM0312C-CS-SP	Solid	03/21/13 09:51	03/23/13 09:39
680-88632-16	FM0312D-CS-SP	Solid	03/21/13 09:45	03/23/13 09:39
680-88632-17	CV0368A-CS-SP	Solid	03/21/13 08:16	03/23/13 09:39
680-88632-18	CV0368B-CS-SP	Solid	03/21/13 08:32	03/23/13 09:39
680-88632-19	CV0443A-CS-SP	Solid	03/21/13 14:57	03/23/13 09:39
680-88632-20	CV0443B-CS-SP	Solid	03/21/13 14:59	03/23/13 09:39

# Method Summary

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

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: 680-88632-1  
SDG: 68088632-1

### Qualifiers

#### GC/MS Semi VOA

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

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0697A-CS**

**Lab Sample ID: 680-88632-1**

Date Collected: 03/21/13 08:25

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Acenaphthylene</b>	<b>16</b>	<b>J</b>	50	6.2	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Anthracene</b>	<b>23</b>		10	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Benzo[a]anthracene</b>	<b>140</b>		9.9	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Benzo[a]pyrene</b>	<b>140</b>		13	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		15	7.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Benzo[g,h,i]perylene</b>	<b>120</b>		25	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Benzo[k]fluoranthene</b>	<b>72</b>		9.9	4.5	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Chrysene</b>	<b>180</b>		11	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Dibenz(a,h)anthracene</b>	<b>33</b>		25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Fluoranthene</b>	<b>190</b>		25	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Fluorene</b>	<b>18</b>	<b>J</b>	25	5.1	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>82</b>		25	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>1-Methylnaphthalene</b>	<b>82</b>		50	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>2-Methylnaphthalene</b>	<b>110</b>		50	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Naphthalene</b>	<b>95</b>		50	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Phenanthrene</b>	<b>170</b>		9.9	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1
<b>Pyrene</b>	<b>180</b>		25	4.6	ug/Kg	☼	03/26/13 16:07	03/27/13 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		30 - 130	03/26/13 16:07	03/27/13 18:08	1

**Client Sample ID: CV0697B-CS**

**Lab Sample ID: 680-88632-2**

Date Collected: 03/21/13 08:40

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Anthracene</b>	<b>32</b>	<b>J</b>	41	21	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Benzo[a]anthracene</b>	<b>120</b>		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Benzo[a]pyrene</b>	<b>98</b>		51	26	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Benzo[b]fluoranthene</b>	<b>160</b>		60	30	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		98	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Benzo[k]fluoranthene</b>	<b>130</b>		39	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Chrysene</b>	<b>190</b>		44	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Dibenz(a,h)anthracene</b>	<b>58</b>	<b>J</b>	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Fluoranthene</b>	<b>130</b>		98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
Fluorene	98	U	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>		98	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>1-Methylnaphthalene</b>	<b>59</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>2-Methylnaphthalene</b>	<b>93</b>	<b>J</b>	200	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Naphthalene</b>	<b>140</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Phenanthrene</b>	<b>150</b>		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4
<b>Pyrene</b>	<b>150</b>		98	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130	03/26/13 16:07	03/27/13 18:26	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0341A-CS**

**Lab Sample ID: 680-88632-3**

Date Collected: 03/21/13 11:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Anthracene</b>	<b>26</b>	<b>J</b>	41	21	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Benzo[a]anthracene</b>	<b>190</b>		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Benzo[a]pyrene</b>	<b>200</b>		51	25	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Benzo[b]fluoranthene</b>	<b>290</b>		60	30	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Benzo[g,h,i]perylene</b>	<b>240</b>		98	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Benzo[k]fluoranthene</b>	<b>93</b>		39	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Chrysene</b>	<b>310</b>		44	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Dibenz(a,h)anthracene</b>	<b>66</b>	<b>J</b>	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Fluoranthene</b>	<b>290</b>		98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
Fluorene	98	U	98	20	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b>		98	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>1-Methylnaphthalene</b>	<b>98</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>2-Methylnaphthalene</b>	<b>96</b>	<b>J</b>	200	35	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Naphthalene</b>	<b>86</b>	<b>J</b>	200	22	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Phenanthrene</b>	<b>180</b>		39	19	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Pyrene</b>	<b>300</b>		98	18	ug/Kg	☼	03/26/13 16:07	03/27/13 18:44	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	73		30 - 130				03/26/13 16:07	03/27/13 18:44	4

**Client Sample ID: FM0341B-CS**

**Lab Sample ID: 680-88632-4**

Date Collected: 03/21/13 11:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Anthracene</b>	<b>34</b>	<b>J</b>	42	21	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Benzo[a]anthracene</b>	<b>150</b>		40	19	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Benzo[a]pyrene</b>	<b>120</b>		52	26	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Benzo[b]fluoranthene</b>	<b>230</b>		61	30	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Benzo[g,h,i]perylene</b>	<b>110</b>		100	22	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Benzo[k]fluoranthene</b>	<b>61</b>		40	18	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Chrysene</b>	<b>190</b>		45	22	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Dibenz(a,h)anthracene</b>	<b>35</b>	<b>J</b>	100	20	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Fluoranthene</b>	<b>230</b>		100	20	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
Fluorene	100	U	100	20	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>82</b>	<b>J</b>	100	35	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>1-Methylnaphthalene</b>	<b>73</b>	<b>J</b>	200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>2-Methylnaphthalene</b>	<b>79</b>	<b>J</b>	200	35	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Naphthalene</b>	<b>63</b>	<b>J</b>	200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Phenanthrene</b>	<b>180</b>		40	19	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	4
<b>Pyrene</b>	<b>180</b>		100	18	ug/Kg	☼	03/27/13 11:19	03/28/13 17:35	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	60		30 - 130				03/27/13 11:19	03/28/13 17:35	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0341C-GS**

**Lab Sample ID: 680-88632-5**

Date Collected: 03/21/13 11:54

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Acenaphthylene	12	J	51	6.4	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Anthracene	17		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Benzo[a]anthracene	88		10	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Benzo[a]pyrene	79		13	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Benzo[b]fluoranthene	150		16	7.8	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Benzo[g,h,i]perylene	76		25	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Benzo[k]fluoranthene	44		10	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Chrysene	120		11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Dibenz(a,h)anthracene	22	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Fluoranthene	140		25	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Fluorene	6.3	J	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Indeno[1,2,3-cd]pyrene	55		25	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
1-Methylnaphthalene	76		51	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
2-Methylnaphthalene	84		51	9.0	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Naphthalene	61		51	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Phenanthrene	120		10	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	1
Pyrene	110		25	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 17:57	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	53		30 - 130				03/27/13 11:19	03/28/13 17:57	1

**Client Sample ID: FM0343A-CS**

**Lab Sample ID: 680-88632-6**

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Acenaphthylene	6.8	J	46	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Anthracene	5.1	J	9.7	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Benzo[a]anthracene	30		9.2	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Benzo[a]pyrene	28		12	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Benzo[b]fluoranthene	47		14	7.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Benzo[g,h,i]perylene	26		23	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Benzo[k]fluoranthene	15		9.2	4.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Chrysene	51		10	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Dibenz(a,h)anthracene	9.3	J	23	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Fluoranthene	46		23	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Fluorene	23	U	23	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Indeno[1,2,3-cd]pyrene	18	J	23	8.2	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
1-Methylnaphthalene	270		46	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
2-Methylnaphthalene	220		46	8.2	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Naphthalene	180		46	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Phenanthrene	170		9.2	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
Pyrene	42		23	4.3	ug/Kg	☼	03/27/13 11:19	03/28/13 18:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				03/27/13 11:19	03/28/13 18:20	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0343A-CSD**

**Lab Sample ID: 680-88632-7**

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

**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	☼	03/27/13 11:19	03/28/13 18:42	1
Acenaphthylene	46	U	46	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Anthracene</b>	<b>5.4</b>	<b>J</b>	9.6	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Benzo[a]anthracene</b>	<b>29</b>		9.1	4.4	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Benzo[a]pyrene</b>	<b>29</b>		12	5.9	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Benzo[b]fluoranthene</b>	<b>54</b>		14	7.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Benzo[g,h,i]perylene</b>	<b>24</b>		23	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Benzo[k]fluoranthene</b>	<b>18</b>		9.1	4.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Chrysene</b>	<b>41</b>		10	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Dibenz(a,h)anthracene</b>	<b>7.6</b>	<b>J</b>	23	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Fluoranthene</b>	<b>41</b>		23	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
Fluorene	23	U	23	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>21</b>	<b>J</b>	23	8.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>1-Methylnaphthalene</b>	<b>15</b>	<b>J</b>	46	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>2-Methylnaphthalene</b>	<b>21</b>	<b>J</b>	46	8.1	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Naphthalene</b>	<b>21</b>	<b>J</b>	46	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Phenanthrene</b>	<b>28</b>		9.1	4.4	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	1
<b>Pyrene</b>	<b>33</b>		23	4.2	ug/Kg	☼	03/27/13 11:19	03/28/13 18:42	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	57		30 - 130				03/27/13 11:19	03/28/13 18:42	1

**Client Sample ID: FM0343B-CS**

**Lab Sample ID: 680-88632-8**

Date Collected: 03/21/13 10:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.5

**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	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Acenaphthylene</b>	<b>34</b>	<b>J</b>	200	26	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Anthracene</b>	<b>38</b>	<b>J</b>	43	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Benzo[a]anthracene</b>	<b>77</b>		41	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Benzo[a]pyrene</b>	<b>71</b>		53	27	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Benzo[b]fluoranthene</b>	<b>160</b>		62	31	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Benzo[g,h,i]perylene</b>	<b>64</b>	<b>J</b>	100	22	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Benzo[k]fluoranthene</b>	<b>50</b>		41	18	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Chrysene</b>	<b>150</b>		46	23	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Dibenz(a,h)anthracene</b>	<b>24</b>	<b>J</b>	100	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Fluoranthene</b>	<b>120</b>		100	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
Fluorene	100	U	100	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>57</b>	<b>J</b>	100	36	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>1-Methylnaphthalene</b>	<b>72</b>	<b>J</b>	200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>2-Methylnaphthalene</b>	<b>74</b>	<b>J</b>	200	36	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Naphthalene</b>	<b>82</b>	<b>J</b>	200	22	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Phenanthrene</b>	<b>100</b>		41	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	4
<b>Pyrene</b>	<b>100</b>		100	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:05	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	74		30 - 130				03/27/13 11:19	03/28/13 19:05	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0090A-CS-SP**

**Lab Sample ID: 680-88632-9**

Date Collected: 03/21/13 11:23

Matrix: Solid

Date Received: 03/23/13 09:39

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	520	U	520	100	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Anthracene</b>	<b>28</b>	<b>J</b>	44	22	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Benzo[a]anthracene</b>	<b>110</b>		42	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Benzo[a]pyrene</b>	<b>110</b>		54	27	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Benzo[b]fluoranthene</b>	<b>210</b>		64	32	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Benzo[g,h,i]perylene</b>	<b>90</b>	<b>J</b>	100	23	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Benzo[k]fluoranthene</b>	<b>62</b>		42	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Chrysene</b>	<b>260</b>		47	23	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Dibenz(a,h)anthracene</b>	<b>29</b>	<b>J</b>	100	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Fluoranthene</b>	<b>170</b>		100	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
Fluorene	100	U	100	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>74</b>	<b>J</b>	100	37	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>1-Methylnaphthalene</b>	<b>140</b>	<b>J</b>	210	23	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>2-Methylnaphthalene</b>	<b>160</b>	<b>J</b>	210	37	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Naphthalene</b>	<b>110</b>	<b>J</b>	210	23	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Phenanthrene</b>	<b>210</b>		42	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	4
<b>Pyrene</b>	<b>160</b>		100	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:27	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	61		30 - 130				03/27/13 11:19	03/28/13 19:27	4

**Client Sample ID: CV0090B-CS-SP**

**Lab Sample ID: 680-88632-10**

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>380</b>	<b>J F</b>	510	100	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Acenaphthylene</b>	<b>330</b>		200	26	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Anthracene</b>	<b>1200</b>	<b>F</b>	43	21	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Benzo[a]anthracene</b>	<b>4800</b>	<b>F</b>	41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Benzo[a]pyrene</b>	<b>4700</b>	<b>F</b>	53	27	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Benzo[b]fluoranthene</b>	<b>7400</b>	<b>F</b>	62	31	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Benzo[g,h,i]perylene</b>	<b>3400</b>	<b>F</b>	100	22	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Benzo[k]fluoranthene</b>	<b>2100</b>	<b>F</b>	41	18	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Chrysene</b>	<b>4700</b>	<b>F</b>	46	23	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Dibenz(a,h)anthracene</b>	<b>940</b>	<b>F</b>	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Fluoranthene</b>	<b>9500</b>	<b>F</b>	100	20	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Fluorene</b>	<b>390</b>	<b>F</b>	100	21	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>2400</b>	<b>F</b>	100	36	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>1-Methylnaphthalene</b>	<b>260</b>		200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>2-Methylnaphthalene</b>	<b>260</b>		200	36	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Naphthalene</b>	<b>480</b>	<b>F</b>	200	22	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Phenanthrene</b>	<b>4400</b>	<b>F</b>	41	20	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	4
<b>Pyrene</b>	<b>8000</b>	<b>F</b>	100	19	ug/Kg	☼	03/27/13 15:04	04/01/13 15:28	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	64		30 - 130				03/27/13 15:04	04/01/13 15:28	4

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# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0092A-CS-SP**

**Lab Sample ID: 680-88632-11**

Date Collected: 03/21/13 10:46

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Anthracene	40	U	40	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Benzo[a]anthracene	71		38	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Benzo[a]pyrene	69		50	25	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Benzo[b]fluoranthene	120		58	29	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Benzo[g,h,i]perylene	55	J	95	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Benzo[k]fluoranthene	46		38	17	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Chrysene	110		43	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Dibenz(a,h)anthracene	95	U	95	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Fluoranthene	120		95	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Fluorene	95	U	95	20	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Indeno[1,2,3-cd]pyrene	49	J	95	34	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
1-Methylnaphthalene	40	J	190	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
2-Methylnaphthalene	36	J	190	34	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Naphthalene	32	J	190	21	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Phenanthrene	87		38	19	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	4
Pyrene	93	J	95	18	ug/Kg	☼	03/27/13 11:19	03/28/13 19:50	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	65		30 - 130				03/27/13 11:19	03/28/13 19:50	4

**Client Sample ID: CV0092B-CS-SP**

**Lab Sample ID: 680-88632-12**

Date Collected: 03/21/13 10:55

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Acenaphthylene	55	U	55	6.8	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Anthracene	11	U	11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Benzo[a]anthracene	11	U	11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Benzo[a]pyrene	14	U	14	7.1	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Benzo[b]fluoranthene	17	U	17	8.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Benzo[g,h,i]perylene	27	U	27	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Benzo[k]fluoranthene	11	U	11	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Chrysene	12	U	12	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Dibenz(a,h)anthracene	27	U	27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Fluoranthene	27	U	27	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Fluorene	27	U	27	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Indeno[1,2,3-cd]pyrene	27	U	27	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
1-Methylnaphthalene	55	U	55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
2-Methylnaphthalene	55	U	55	9.7	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Naphthalene	55	U	55	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Phenanthrene	11	U	11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	1
Pyrene	27	U	27	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 20:12	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	49		30 - 130				03/27/13 11:19	03/28/13 20:12	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0312A-CS-SP**

**Lab Sample ID: 680-88632-13**

Date Collected: 03/21/13 09:29

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Acenaphthylene</b>	<b>15</b>	<b>J</b>	56	7.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Anthracene</b>	<b>30</b>		12	5.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Benzo[a]anthracene</b>	<b>96</b>		11	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Benzo[a]pyrene</b>	<b>90</b>		15	7.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Benzo[b]fluoranthene</b>	<b>210</b>		17	8.5	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Benzo[g,h,i]perylene</b>	<b>65</b>		28	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Benzo[k]fluoranthene</b>	<b>64</b>		11	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Chrysene</b>	<b>190</b>		13	6.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Dibenz(a,h)anthracene</b>	<b>21</b>	<b>J</b>	28	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Fluoranthene</b>	<b>200</b>		28	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Fluorene</b>	<b>12</b>	<b>J</b>	28	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>56</b>		28	9.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>1-Methylnaphthalene</b>	<b>69</b>		56	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>2-Methylnaphthalene</b>	<b>99</b>		56	9.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Naphthalene</b>	<b>160</b>		56	6.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Phenanthrene</b>	<b>180</b>		11	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	1
<b>Pyrene</b>	<b>130</b>		28	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:35	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	50		30 - 130				03/27/13 11:19	03/28/13 20:35	1

**Client Sample ID: FM0312B-CS-SP**

**Lab Sample ID: 680-88632-14**

Date Collected: 03/21/13 09:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Acenaphthylene</b>	<b>8.1</b>	<b>J</b>	53	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Anthracene</b>	<b>13</b>		11	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Benzo[a]anthracene</b>	<b>57</b>		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Benzo[a]pyrene</b>	<b>49</b>		14	6.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Benzo[b]fluoranthene</b>	<b>120</b>		16	8.1	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Benzo[g,h,i]perylene</b>	<b>38</b>		27	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Benzo[k]fluoranthene</b>	<b>31</b>		11	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Chrysene</b>	<b>100</b>		12	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Dibenz(a,h)anthracene</b>	<b>14</b>	<b>J</b>	27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Fluoranthene</b>	<b>110</b>		27	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
Fluorene	27	U	27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>35</b>		27	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>1-Methylnaphthalene</b>	<b>27</b>	<b>J</b>	53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>2-Methylnaphthalene</b>	<b>42</b>	<b>J</b>	53	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Naphthalene</b>	<b>68</b>		53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Phenanthrene</b>	<b>85</b>		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	1
<b>Pyrene</b>	<b>71</b>		27	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 20:57	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	56		30 - 130				03/27/13 11:19	03/28/13 20:57	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: FM0312C-CS-SP**

**Lab Sample ID: 680-88632-15**

Date Collected: 03/21/13 09:51

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Acenaphthylene</b>	<b>13</b>	<b>J</b>	48	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Anthracene</b>	<b>20</b>		10	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Benzo[a]anthracene</b>	<b>43</b>		9.6	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Benzo[a]pyrene</b>	<b>39</b>		13	6.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Benzo[b]fluoranthene</b>	<b>78</b>		15	7.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Benzo[g,h,i]perylene</b>	<b>31</b>		24	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Benzo[k]fluoranthene</b>	<b>24</b>		9.6	4.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Chrysene</b>	<b>62</b>		11	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Dibenz(a,h)anthracene</b>	<b>11</b>	<b>J</b>	24	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Fluoranthene</b>	<b>62</b>		24	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
Fluorene	24	U	24	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>23</b>	<b>J</b>	24	8.6	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>1-Methylnaphthalene</b>	<b>20</b>	<b>J</b>	48	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>2-Methylnaphthalene</b>	<b>26</b>	<b>J</b>	48	8.6	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Naphthalene</b>	<b>25</b>	<b>J</b>	48	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Phenanthrene</b>	<b>48</b>		9.6	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Pyrene</b>	<b>50</b>		24	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	52		30 - 130				03/27/13 11:19	03/28/13 21:20	1

**Client Sample ID: FM0312D-CS-SP**

**Lab Sample ID: 680-88632-16**

Date Collected: 03/21/13 09:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Acenaphthylene</b>	<b>30</b>	<b>J</b>	50	6.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Anthracene</b>	<b>44</b>		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Benzo[a]anthracene</b>	<b>110</b>		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Benzo[a]pyrene</b>	<b>97</b>		13	6.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Benzo[b]fluoranthene</b>	<b>180</b>		15	7.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Benzo[g,h,i]perylene</b>	<b>56</b>		25	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Benzo[k]fluoranthene</b>	<b>64</b>		10	4.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Chrysene</b>	<b>150</b>		11	5.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Dibenz(a,h)anthracene</b>	<b>23</b>	<b>J</b>	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Fluoranthene</b>	<b>180</b>		25	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	25	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>50</b>		25	8.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>1-Methylnaphthalene</b>	<b>58</b>		50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>2-Methylnaphthalene</b>	<b>81</b>		50	8.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Naphthalene</b>	<b>72</b>		50	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Phenanthrene</b>	<b>160</b>		10	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	1
<b>Pyrene</b>	<b>130</b>		25	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:42	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	60		30 - 130				03/27/13 11:19	03/28/13 21:42	1

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0368A-CS-SP**

**Lab Sample ID: 680-88632-17**

Date Collected: 03/21/13 08:16

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Acenaphthylene</b>	<b>25</b>	<b>J</b>	52	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Anthracene</b>	<b>40</b>		11	5.5	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Benzo[a]anthracene</b>	<b>170</b>		10	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Benzo[a]pyrene</b>	<b>140</b>		14	6.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Benzo[b]fluoranthene</b>	<b>260</b>		16	8.0	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Benzo[g,h,i]perylene</b>	<b>110</b>		26	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Benzo[k]fluoranthene</b>	<b>110</b>		10	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Chrysene</b>	<b>290</b>		12	5.9	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Dibenz(a,h)anthracene</b>	<b>46</b>		26	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Fluoranthene</b>	<b>290</b>		26	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Fluorene</b>	<b>12</b>	<b>J</b>	26	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>93</b>		26	9.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>1-Methylnaphthalene</b>	<b>140</b>		52	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>2-Methylnaphthalene</b>	<b>180</b>		52	9.3	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Naphthalene</b>	<b>130</b>		52	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Phenanthrene</b>	<b>310</b>		10	5.1	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Pyrene</b>	<b>290</b>		26	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 21:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	48		30 - 130				03/27/13 11:19	03/28/13 21:47	1

**Client Sample ID: CV0368B-CS-SP**

**Lab Sample ID: 680-88632-18**

Date Collected: 03/21/13 08:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	87	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Acenaphthylene</b>	<b>29</b>	<b>J</b>	170	22	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Anthracene</b>	<b>37</b>		37	18	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Benzo[a]anthracene</b>	<b>130</b>		35	17	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Benzo[a]pyrene</b>	<b>95</b>		45	23	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Benzo[b]fluoranthene</b>	<b>210</b>		53	27	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Benzo[g,h,i]perylene</b>	<b>120</b>		87	19	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Benzo[k]fluoranthene</b>	<b>80</b>		35	16	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Chrysene</b>	<b>210</b>		39	20	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Dibenz(a,h)anthracene</b>	<b>26</b>	<b>J</b>	87	18	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Fluoranthene</b>	<b>150</b>		87	17	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Fluorene</b>	<b>19</b>	<b>J</b>	87	18	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Indeno[1,2,3-cd]pyrene</b>	<b>72</b>	<b>J</b>	87	31	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>1-Methylnaphthalene</b>	<b>120</b>	<b>J</b>	170	19	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>2-Methylnaphthalene</b>	<b>110</b>	<b>J</b>	170	31	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Naphthalene</b>	<b>98</b>	<b>J</b>	170	19	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Phenanthrene</b>	<b>180</b>		35	17	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	4
<b>Pyrene</b>	<b>150</b>		87	16	ug/Kg	☼	03/27/13 11:19	03/28/13 22:06	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	42		30 - 130				03/27/13 11:19	03/28/13 22:06	4

TestAmerica Savannah

# Client Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

**Client Sample ID: CV0443A-CS-SP**

**Lab Sample ID: 680-88632-19**

Date Collected: 03/21/13 14:57

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	29	J	120	24	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Acenaphthylene	6.2	J	47	5.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Anthracene	75		9.9	5.0	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[a]anthracene	230		9.4	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[a]pyrene	170		12	6.1	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[b]fluoranthene	270		14	7.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[g,h,i]perylene	110		24	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Benzo[k]fluoranthene	120		9.4	4.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Chrysene	230		11	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Dibenz(a,h)anthracene	31		24	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Fluoranthene	470		24	4.7	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Fluorene	19	J	24	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Indeno[1,2,3-cd]pyrene	120		24	8.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
1-Methylnaphthalene	52		47	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
2-Methylnaphthalene	75		47	8.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Naphthalene	62		47	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Phenanthrene	380		9.4	4.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
Pyrene	400		24	4.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o</i> -Terphenyl	46		30 - 130				03/27/13 11:19	03/28/13 22:24	1

**Client Sample ID: CV0443B-CS-SP**

**Lab Sample ID: 680-88632-20**

Date Collected: 03/21/13 14:59

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Acenaphthylene	18	J	53	6.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Anthracene	15		11	5.6	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[a]anthracene	81		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[a]pyrene	64		14	6.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[b]fluoranthene	170		16	8.1	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[g,h,i]perylene	80		27	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Benzo[k]fluoranthene	42		11	4.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Chrysene	140		12	6.0	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Dibenz(a,h)anthracene	28		27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Fluoranthene	120		27	5.3	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Fluorene	12	J	27	5.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Indeno[1,2,3-cd]pyrene	48		27	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
1-Methylnaphthalene	80		53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
2-Methylnaphthalene	90		53	9.4	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Naphthalene	89		53	5.8	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Phenanthrene	120		11	5.2	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	1
Pyrene	120		27	4.9	ug/Kg	☼	03/27/13 11:19	03/28/13 22:42	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	50		30 - 130				03/27/13 11:19	03/28/13 22:42	1

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

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

**Lab Sample ID: MB 660-135800/1-A**

**Matrix: Solid**

**Analysis Batch: 135830**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 135800**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluorene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Naphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Pyrene	20	U	20	3.7	ug/Kg		03/26/13 16:07	03/27/13 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130	03/26/13 16:07	03/27/13 11:26	1

**Lab Sample ID: LCS 660-135800/2-A**

**Matrix: Solid**

**Analysis Batch: 135830**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135800**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	670	534		ug/Kg		80	39 - 130
Acenaphthylene	670	518		ug/Kg		77	38 - 130
Anthracene	670	533		ug/Kg		80	37 - 130
Benzo[a]anthracene	670	502		ug/Kg		75	40 - 130
Benzo[a]pyrene	670	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	670	554		ug/Kg		83	37 - 130
Benzo[g,h,i]perylene	670	493		ug/Kg		74	32 - 130
Benzo[k]fluoranthene	670	514		ug/Kg		77	32 - 130
Chrysene	670	494		ug/Kg		74	41 - 130
Dibenz(a,h)anthracene	670	525		ug/Kg		78	27 - 130
Fluoranthene	670	540		ug/Kg		81	40 - 130
Fluorene	670	558		ug/Kg		83	40 - 130
Indeno[1,2,3-cd]pyrene	670	495		ug/Kg		74	30 - 130
1-Methylnaphthalene	670	553		ug/Kg		83	31 - 130
2-Methylnaphthalene	670	503		ug/Kg		75	33 - 130
Naphthalene	670	505		ug/Kg		75	36 - 130
Phenanthrene	670	503		ug/Kg		75	42 - 130
Pyrene	670	517		ug/Kg		77	44 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

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

**Lab Sample ID: LCS 660-135800/2-A**  
**Matrix: Solid**  
**Analysis Batch: 135830**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135800**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	73		30 - 130

**Lab Sample ID: MB 660-135822/1-A**  
**Matrix: Solid**  
**Analysis Batch: 136038**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 135822**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/27/13 11:19	03/28/13 15:42	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 11:19	03/28/13 15:42	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	65		30 - 130	03/27/13 11:19	03/28/13 15:42	1

**Lab Sample ID: LCS 660-135822/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136038**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135822**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	670	455		ug/Kg		68	39 - 130
Acenaphthylene	670	472		ug/Kg		70	38 - 130
Anthracene	670	464		ug/Kg		69	37 - 130
Benzo[a]anthracene	670	520		ug/Kg		78	40 - 130
Benzo[a]pyrene	670	459		ug/Kg		69	49 - 130
Benzo[b]fluoranthene	670	503		ug/Kg		75	37 - 130
Benzo[g,h,i]perylene	670	486		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	670	484		ug/Kg		72	32 - 130
Chrysene	670	464		ug/Kg		69	41 - 130
Dibenz(a,h)anthracene	670	527		ug/Kg		79	27 - 130
Fluoranthene	670	488		ug/Kg		73	40 - 130
Fluorene	670	491		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	670	469		ug/Kg		70	30 - 130
1-Methylnaphthalene	670	512		ug/Kg		76	31 - 130

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

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

**Lab Sample ID: LCS 660-135822/2-A**  
**Matrix: Solid**  
**Analysis Batch: 136038**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135822**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	670	499		ug/Kg		75	33 - 130
Naphthalene	670	470		ug/Kg		70	36 - 130
Phenanthrene	670	461		ug/Kg		69	42 - 130
Pyrene	670	464		ug/Kg		69	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	70		30 - 130

**Lab Sample ID: MB 660-135843/1-A**  
**Matrix: Solid**  
**Analysis Batch: 135996**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 135843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Fluorene	20	U	20	4.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Naphthalene	40	U	40	4.4	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/27/13 15:04	04/01/13 14:52	1
Pyrene	20	U	20	3.7	ug/Kg		03/27/13 15:04	04/01/13 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130	03/27/13 15:04	04/01/13 14:52	1

**Lab Sample ID: LCS 660-135843/2-A**  
**Matrix: Solid**  
**Analysis Batch: 135996**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 135843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	495		ug/Kg		74	39 - 130
Acenaphthylene	668	547		ug/Kg		82	38 - 130
Anthracene	668	519		ug/Kg		78	37 - 130
Benzo[a]anthracene	668	536		ug/Kg		80	40 - 130
Benzo[a]pyrene	668	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	668	481		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	668	477		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	668	573		ug/Kg		86	32 - 130

TestAmerica Savannah



# QC Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

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

**Lab Sample ID: LCS 660-135843/2-A**

**Matrix: Solid**

**Analysis Batch: 135996**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 135843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	668	497		ug/Kg		74	41 - 130
Dibenz(a,h)an hracene	668	499		ug/Kg		75	27 - 130
Fluoranthene	668	548		ug/Kg		82	40 - 130
Fluorene	668	536		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	668	511		ug/Kg		76	30 - 130
1-Methylnaphthalene	668	593		ug/Kg		89	31 - 130
2-Methylnaphthalene	668	577		ug/Kg		86	33 - 130
Naphthalene	668	539		ug/Kg		81	36 - 130
Phenanthrene	668	518		ug/Kg		78	42 - 130
Pyrene	668	556		ug/Kg		83	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	81		30 - 130

**Lab Sample ID: 680-88632-10 MS**

**Matrix: Solid**

**Analysis Batch: 135996**

**Client Sample ID: CV0090B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 135843**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	380	J F	852	674	F	ug/Kg	☼	35	39 - 130
Acenaphthylene	330		852	736		ug/Kg	☼	48	38 - 130
Anthracene	1200	F	852	936	F	ug/Kg	☼	-36	37 - 130
Benzo[a]anthracene	4800	F	852	2110	4	ug/Kg	☼	-316	40 - 130
Benzo[a]pyrene	4700	F	852	2020	4	ug/Kg	☼	-310	49 - 130
Benzo[b]fluoranthene	7400	F	852	2820	4	ug/Kg	☼	-543	37 - 130
Benzo[g,h,i]perylene	3400	F	852	1560	F	ug/Kg	☼	-217	32 - 130
Benzo[k]fluoranthene	2100	F	852	1490	F	ug/Kg	☼	-67	32 - 130
Chrysene	4700	F	852	2080	4	ug/Kg	☼	-304	41 - 130
Dibenz(a,h)an hracene	940	F	852	1030	F	ug/Kg	☼	10	27 - 130
Fluoranthene	9500	F	852	3460	4	ug/Kg	☼	-713	40 - 130
Fluorene	390	F	852	698	F	ug/Kg	☼	36	40 - 130
Indeno[1,2,3-cd]pyrene	2400	F	852	1420	F	ug/Kg	☼	-118	30 - 130
1-Methylnaphthalene	260		852	1050		ug/Kg	☼	93	31 - 130
2-Methylnaphthalene	260		852	920		ug/Kg	☼	78	33 - 130
Naphthalene	480	F	852	783		ug/Kg	☼	36	36 - 130
Phenanthrene	4400	F	852	2180	4	ug/Kg	☼	-262	42 - 130
Pyrene	8000	F	852	3030	4	ug/Kg	☼	-586	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

**Lab Sample ID: 680-88632-10 MSD**

**Matrix: Solid**

**Analysis Batch: 135996**

**Client Sample ID: CV0090B-CS-SP**

**Prep Type: Total/NA**

**Prep Batch: 135843**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	380	J F	853	695	F	ug/Kg	☼	37	39 - 130	3	40
Acenaphthylene	330		853	844		ug/Kg	☼	60	38 - 130	14	40

TestAmerica Savannah

# QC Sample Results

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

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

Lab Sample ID: 680-88632-10 MSD

Matrix: Solid

Analysis Batch: 135996

Client Sample ID: CV0090B-CS-SP

Prep Type: Total/NA

Prep Batch: 135843

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Anthracene	1200	F	853	1160	F	ug/Kg	*	-10	37 - 130	21	40
Benzo[a]anthracene	4800	F	853	4010	4 F	ug/Kg	*	-93	40 - 130	62	40
Benzo[a]pyrene	4700	F	853	3770	4 F	ug/Kg	*	-104	49 - 130	61	40
Benzo[b]fluoranthene	7400	F	853	5430	4 F	ug/Kg	*	236	37 - 130	63	40
Benzo[g,h,i]perylene	3400	F	853	2480	F	ug/Kg	*	-108	32 - 130	46	40
Benzo[k]fluoranthene	2100	F	853	2920	F	ug/Kg	*	101	32 - 130	65	40
Chrysene	4700	F	853	4100	4 F	ug/Kg	*	-66	41 - 130	65	40
Dibenz(a,h)anthracene	940	F	853	1210		ug/Kg	*	32	27 - 130	17	40
Fluoranthene	9500	F	853	6580	4 F	ug/Kg	*	-346	40 - 130	62	40
Fluorene	390	F	853	724	F	ug/Kg	*	39	40 - 130	4	40
Indeno[1,2,3-cd]pyrene	2400	F	853	2460	F	ug/Kg	*	4	30 - 130	54	40
1-Methylnaphthalene	260		853	816		ug/Kg	*	65	31 - 130	25	40
2-Methylnaphthalene	260		853	621		ug/Kg	*	43	33 - 130	39	40
Naphthalene	480	F	853	681	F	ug/Kg	*	24	36 - 130	14	40
Phenanthrene	4400	F	853	3080	4	ug/Kg	*	-156	42 - 130	34	40
Pyrene	8000	F	853	6020	4 F	ug/Kg	*	-235	44 - 130	66	40
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>o</i> -Terphenyl	65		30 - 130								

# QC Association Summary

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

## GC/MS Semi VOA

### Prep Batch: 135800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-1	CV0697A-CS	Total/NA	Solid	3546	
680-88632-2	CV0697B-CS	Total/NA	Solid	3546	
680-88632-3	FM0341A-CS	Total/NA	Solid	3546	
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135800/1-A	Method Blank	Total/NA	Solid	3546	

### Prep Batch: 135822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-4	FM0341B-CS	Total/NA	Solid	3546	
680-88632-5	FM0341C-GS	Total/NA	Solid	3546	
680-88632-6	FM0343A-CS	Total/NA	Solid	3546	
680-88632-7	FM0343A-CSD	Total/NA	Solid	3546	
680-88632-8	FM0343B-CS	Total/NA	Solid	3546	
680-88632-9	CV0090A-CS-SP	Total/NA	Solid	3546	
680-88632-11	CV0092A-CS-SP	Total/NA	Solid	3546	
680-88632-12	CV0092B-CS-SP	Total/NA	Solid	3546	
680-88632-13	FM0312A-CS-SP	Total/NA	Solid	3546	
680-88632-14	FM0312B-CS-SP	Total/NA	Solid	3546	
680-88632-15	FM0312C-CS-SP	Total/NA	Solid	3546	
680-88632-16	FM0312D-CS-SP	Total/NA	Solid	3546	
680-88632-17	CV0368A-CS-SP	Total/NA	Solid	3546	
680-88632-18	CV0368B-CS-SP	Total/NA	Solid	3546	
680-88632-19	CV0443A-CS-SP	Total/NA	Solid	3546	
680-88632-20	CV0443B-CS-SP	Total/NA	Solid	3546	
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135822/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-1	CV0697A-CS	Total/NA	Solid	8270C LL	135800
680-88632-2	CV0697B-CS	Total/NA	Solid	8270C LL	135800
680-88632-3	FM0341A-CS	Total/NA	Solid	8270C LL	135800
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135800
MB 660-135800/1-A	Method Blank	Total/NA	Solid	8270C LL	135800

### Prep Batch: 135843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	3546	
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	3546	
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	3546	
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135843/1-A	Method Blank	Total/NA	Solid	3546	

### Analysis Batch: 135902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-17	CV0368A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-18	CV0368B-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-19	CV0443A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-20	CV0443B-CS-SP	Total/NA	Solid	8270C LL	135822

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 135996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	8270C LL	135843
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	8270C LL	135843
LCS 660-135843/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135843
MB 660-135843/1-A	Method Blank	Total/NA	Solid	8270C LL	135843

### Analysis Batch: 136038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-4	FM0341B-CS	Total/NA	Solid	8270C LL	135822
680-88632-5	FM0341C-GS	Total/NA	Solid	8270C LL	135822
680-88632-6	FM0343A-CS	Total/NA	Solid	8270C LL	135822
680-88632-7	FM0343A-CSD	Total/NA	Solid	8270C LL	135822
680-88632-8	FM0343B-CS	Total/NA	Solid	8270C LL	135822
680-88632-9	CV0090A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-11	CV0092A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-12	CV0092B-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-13	FM0312A-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-14	FM0312B-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-15	FM0312C-CS-SP	Total/NA	Solid	8270C LL	135822
680-88632-16	FM0312D-CS-SP	Total/NA	Solid	8270C LL	135822
LCS 660-135822/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135822
MB 660-135822/1-A	Method Blank	Total/NA	Solid	8270C LL	135822

## General Chemistry

### Analysis Batch: 135786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-1	CV0697A-CS	Total/NA	Solid	Moisture	
680-88632-2	CV0697B-CS	Total/NA	Solid	Moisture	
680-88632-3	FM0341A-CS	Total/NA	Solid	Moisture	
680-88632-5	FM0341C-GS	Total/NA	Solid	Moisture	
680-88632-6	FM0343A-CS	Total/NA	Solid	Moisture	
680-88632-7	FM0343A-CSD	Total/NA	Solid	Moisture	
680-88632-8	FM0343B-CS	Total/NA	Solid	Moisture	
680-88632-9	CV0090A-CS-SP	Total/NA	Solid	Moisture	
680-88632-10	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-10 MS	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-10 MSD	CV0090B-CS-SP	Total/NA	Solid	Moisture	
680-88632-11	CV0092A-CS-SP	Total/NA	Solid	Moisture	
680-88632-12	CV0092B-CS-SP	Total/NA	Solid	Moisture	
680-88632-13	FM0312A-CS-SP	Total/NA	Solid	Moisture	
680-88632-14	FM0312B-CS-SP	Total/NA	Solid	Moisture	
680-88632-15	FM0312C-CS-SP	Total/NA	Solid	Moisture	
680-88632-16	FM0312D-CS-SP	Total/NA	Solid	Moisture	
680-88632-17	CV0368A-CS-SP	Total/NA	Solid	Moisture	
680-88632-18	CV0368B-CS-SP	Total/NA	Solid	Moisture	
680-88632-19	CV0443A-CS-SP	Total/NA	Solid	Moisture	
680-88632-20	CV0443B-CS-SP	Total/NA	Solid	Moisture	

TestAmerica Savannah

# QC Association Summary

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

TestAmerica Job ID: 680-88632-1  
SDG: 68088632-1

## General Chemistry (Continued)

### Analysis Batch: 135794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88632-4	FM0341B-CS	Total/NA	Solid	Moisture	
LCS 660-135794/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135794/11	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: 680-88632-1  
 SDG: 68088632-1

## Client Sample ID: CV0697A-CS

Lab Sample ID: 680-88632-1

Date Collected: 03/21/13 08:25

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 18:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0697B-CS

Lab Sample ID: 680-88632-2

Date Collected: 03/21/13 08:40

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 18:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0341A-CS

Lab Sample ID: 680-88632-3

Date Collected: 03/21/13 11:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 18:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0341B-CS

Lab Sample ID: 680-88632-4

Date Collected: 03/21/13 11:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136038	03/28/13 17:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135794	03/26/13 12:57	AG	TAL TAM

## Client Sample ID: FM0341C-GS

Lab Sample ID: 680-88632-5

Date Collected: 03/21/13 11:54

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 17:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

## Client Sample ID: FM0343A-CS

Lab Sample ID: 680-88632-6

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 18:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0343A-CSD

Lab Sample ID: 680-88632-7

Date Collected: 03/21/13 10:30

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 18:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0343B-CS

Lab Sample ID: 680-88632-8

Date Collected: 03/21/13 10:50

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136038	03/28/13 19:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0090A-CS-SP

Lab Sample ID: 680-88632-9

Date Collected: 03/21/13 11:23

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136038	03/28/13 19:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0090B-CS-SP

Lab Sample ID: 680-88632-10

Date Collected: 03/21/13 11:35

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135843	03/27/13 15:04	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135996	04/01/13 15:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

# Lab Chronicle

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

## Client Sample ID: CV0092A-CS-SP

Lab Sample ID: 680-88632-11

Date Collected: 03/21/13 10:46

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136038	03/28/13 19:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0092B-CS-SP

Lab Sample ID: 680-88632-12

Date Collected: 03/21/13 10:55

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 20:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0312A-CS-SP

Lab Sample ID: 680-88632-13

Date Collected: 03/21/13 09:29

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 20:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0312B-CS-SP

Lab Sample ID: 680-88632-14

Date Collected: 03/21/13 09:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 20:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: FM0312C-CS-SP

Lab Sample ID: 680-88632-15

Date Collected: 03/21/13 09:51

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 21:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM



# Lab Chronicle

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

## Client Sample ID: FM0312D-CS-SP

Lab Sample ID: 680-88632-16

Date Collected: 03/21/13 09:45

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136038	03/28/13 21:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0368A-CS-SP

Lab Sample ID: 680-88632-17

Date Collected: 03/21/13 08:16

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 21:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0368B-CS-SP

Lab Sample ID: 680-88632-18

Date Collected: 03/21/13 08:32

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 22:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0443A-CS-SP

Lab Sample ID: 680-88632-19

Date Collected: 03/21/13 14:57

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 22:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

## Client Sample ID: CV0443B-CS-SP

Lab Sample ID: 680-88632-20

Date Collected: 03/21/13 14:59

Matrix: Solid

Date Received: 03/23/13 09:39

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135822	03/27/13 11:19	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 22:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135786	03/26/13 12:38	AG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



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Savannah, GA 31404

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Phone: (912) 354-7858  
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Alternate Laboratory Name/Location

Phone:  
Fax:

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) <i>LL PAH</i> <i>PCE &amp; Metals</i>	STANDARD REPORT DELIVERY <input type="checkbox"/> DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/> DATE DUE _____	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
CLIENT PHONE	CLIENT FAX				
CLIENT E-MAIL					
CLIENT ADDRESS <i>(b) (6)</i>	COMPANY CONTR.		<b>PRESERVATIVE</b>		

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME							1	2	3	4	
<i>3-21-13</i>	<i>0825</i>	<i>CVD697A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>					
	<i>0840</i>	<i>CV0697B-CS</i>	<i>C</i>	<i>X</i>								
	<i>1130</i>	<i>FM0341A-CS</i>	<i>C</i>	<i>X</i>								
	<i>1145</i>	<i>FM0341B-CS</i>	<i>C</i>	<i>X</i>								
	<i>1154</i>	<i>FM0341C-GS</i>	<i>G</i>	<i>X</i>								
	<i>1030</i>	<i>FM0343A-CS</i>	<i>C</i>	<i>X</i>								
	<i>1030</i>	<i>FM0343A-CSD</i>	<i>C</i>	<i>X</i>								
	<i>1050</i>	<i>FM0343B-CS</i>	<i>C</i>	<i>X</i>								
	<i>1123</i>	<i>CV0090A-CS-SP</i>	<i>C</i>	<i>X</i>								
	<i>1135</i>	<i>CV0090B-CS-SP</i>	<i>C</i>	<i>X</i>				<i>X</i>				
	<i>1046</i>	<i>CV0092A-CS-SP</i>	<i>C</i>	<i>X</i>								
	<i>1055</i>	<i>CV0092B-CS-SP</i>	<i>C</i>	<i>X</i>								

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LQG NO. <i>06632</i>	LABORATORY REMARKS <i>1.2<sup>c</sup></i>
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4/4/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



TestAmerica Savannah  
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Savannah, GA 31404

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Alternate Laboratory Name/Location

Phone:  
Fax:

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>4</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
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COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
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NUMBER OF CONTAINERS SUBMITTED	REMARKS
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SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-21-13	0929	FM0312A-CS-SP	C	X			X		
	0932	Fm0312B-CS-SP	C	X			X		
	0951	Fm0312C-CS-SP	C	X			X		
	0945	Fm0312D-CS-SP	C	X			X		
	0816	<del>FM0368A-CS-SP</del> CV0368A-CS-SP	C	X			X		
	0832	<del>FM0368B-CS-SP</del> CV0368B-CS-SP	C	X			X		
	1457	CV0443A-CS-SP	C	X			X		
	1459	CV0443B-CS-SP	C	X			X		
	1535	CV0476A-CS-SP	C	X			X		
	1544	CV0476B-CS-SP	C	X			X		
	1601	CV0566A-CS-SP	C	X			X	X	
	1610	CV0566B-CS-SP	C	X			X		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-22-13</i>	TIME <i>1130</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/23/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88632</i>	LABORATORY REMARKS <i>1.2c</i>
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(b) (6)  
(b) (6)

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4/4/2013

LLPAH  
PCPAB Metals

PRESERVATIVE



## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

SDG Number: 68088632-1

**Login Number: 88632**

**List Number: 1**

**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88632-1

SDG Number: 68088632-1

**Login Number: 88632**

**List Number: 1**

**Creator: McNulty, Carol**

**List Source: TestAmerica Tampa**

**List Creation: 03/26/13 12:20 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

# Certification Summary

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

TestAmerica Job ID: 680-88632-1  
 SDG: 68088632-1

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

## Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14