

**Data Validation Checklist
Semivolatile Organic Analyses**

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88118-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/06/2013
 Date: 03/26/2013
 Date: 04/05/2013

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 030513-RB-Shovel (680-88065-26).	

¹ Independent technical reviewer
 URS Group, Inc.
 Page 1 of 5

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (030513-RB-Shovel) was collected during the week of 03/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88065-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> • HP0113A-CS (680-88118-22) and HP0113A-CSD (680-88118-23) • CV0822F-CS (680-88118-36) and CV0822F-CSD (680-88118-37) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B , Field Duplicate Evaluation.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • 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. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Initial Calibration: 02/22/2013, instrument BSMC5973 • ICV: 02/22/2013 @ 14:06 • CCV: 03/15/2013 @ 14:42 • CCV: 03/19/2013 @ 11:18 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, 		✓		<ul style="list-style-type: none"> • ICV of 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> ○ Chrysene @ -20.6%D (Lab: ≤ 35, Project: ≤ 20), 79.5%R ○ Benzo(a)pyrene @ -21.7%D (Lab: ≤ 35, Project: ≤ 20), 78.5%R 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects o If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> o If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects o If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatiles target compounds 				Negative bias is indicated by the ICV percent difference; therefore, J-flag detected chrysene and benzo(a)pyrene results in all samples.	
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)?		✓		Prep Batch 135392: 680-88118-21 (FM0116B-CS-SP), MS/MSD	
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"> • If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD $\%R < 10$: J and R Flag positive and ND results, respectively • MS and MSD $\%R > 10$ and $< \text{LCL}$: J-Flag positive and UJ-flag non-detect results • MS and MSD $R\% > \text{UCL}$ (or 140): J-Flag positive results 	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. • If $\%RPD > \text{UCL}$, J-flag positive result and UJ-flag non- 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
detect result					
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R <10, then J-flag positive and R-flag non-detect associated sample results If %R >UCL, then J-flag positive results %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> 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 If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results 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 If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. 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. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
<p>Comments: 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 (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

Data Validation Checklist (Continued)

DV Flag Definitions:

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

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88118-21	FM0116B-CS-SP	Solid	03/06/13 10:47	03/08/13 09:21
680-88118-22	HP01113A-CS	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-23	HP01113A-CSD	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-24	CV0166A-CS	Solid	03/06/13 15:40	03/08/13 09:21
680-88118-25	CV0166B-CS	Solid	03/06/13 15:50	03/08/13 09:21
680-88118-26	CV0350A-CS	Solid	03/06/13 13:50	03/08/13 09:21
680-88118-27	CV0350B-CS	Solid	03/06/13 14:00	03/08/13 09:21
680-88118-28	CV0350C-GS	Solid	03/06/13 14:10	03/08/13 09:21
680-88118-29	CV0518A-CS	Solid	03/06/13 14:50	03/08/13 09:21
680-88118-30	CV0518B-CS	Solid	03/06/13 15:00	03/08/13 09:21
680-88118-31	CV0822A-CS	Solid	03/06/13 12:20	03/08/13 09:21
680-88118-32	CV0822B-CS	Solid	03/06/13 12:30	03/08/13 09:21
680-88118-33	CV0822C-CS	Solid	03/06/13 12:40	03/08/13 09:21
680-88118-34	CV0822D-CS	Solid	03/06/13 12:50	03/08/13 09:21
680-88118-35	CV0822E-CS	Solid	03/06/13 13:00	03/08/13 09:21
680-88118-36	CV0822F-CS	Solid	03/06/13 13:10	03/08/13 09:21
680-88118-37	CV0822F-CSD	Solid	03/06/13 13:10	03/08/13 09:21
680-88118-38	CV0911A-CS	Solid	03/06/13 15:10	03/08/13 09:21
680-88118-39	CV0911B-CS	Solid	03/06/13 15:20	03/08/13 09:21

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	HP0113A-CS (680-88118-22)	RL	HP0113A-CSD (680-88118-23)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	820	490	9500	480	µg/kg	2425	NA	8680	970	J/UJ-flag, absolute difference > 2x Avg RL
Acenaphthylene	53	200	200	190	µg/kg	975	NA	147	390	None, absolute difference ≤ 2x Avg RL
Anthracene	1300	41	15000	41	µg/kg	205	168	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)anthracene	4800	39	29000	190	µg/kg	572.5	143	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	4000	51	24000	250	µg/kg	752.5	143	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	6100	60	35000	290	µg/kg	875	141	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	2600	99	15000	480	µg/kg	1447.5	141	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	2800	39	16000	190	µg/kg	572.5	140	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	4100	44	26000	220	µg/kg	660	146	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	760	99	5700	97	µg/kg	490	153	NA	NA	J/UJ-flag, RPD > 50%
Fluoranthene	9600	99	66000	480	µg/kg	1447.5	149	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	600	99	8300	97	µg/kg	490	173	NA	NA	J/UJ-flag, RPD > 50%
Indeno(1,2,3-cd)pyrene	2200	99	14000	480	µg/kg	1447.5	146	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	92	200	1100	190	µg/kg	975	NA	1008	390	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	140	200	1700	190	µg/kg	975	NA	1560	390	J/UJ-flag, absolute difference > 2x Avg RL
Naphthalene	130	200	3300	190	µg/kg	975	NA	3170	390	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	5600	39	47000	190	µg/kg	572.5	157	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	7500	99	50000	480	µg/kg	1447.5	148	NA	NA	J/UJ-flag, RPD > 50%

Analyte	CV0822F-CS (680-88118-36)	RL	CV0822F-CSD (680-88118-37)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene	120	500		490	µg/kg	2475	NA	120	990	None, absolute difference ≤ 2x Avg RL
Anthracene	180	42	66	41	µg/kg	207.5	NA	114	83	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	570	40	320	39	µg/kg	197.5	56	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	600	51	310	50	µg/kg	252.5	64	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	970	60	480	59	µg/kg	297.5	68	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	430	99	250	97	µg/kg	490	NA	180	196	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	340	40	170	39	µg/kg	197.5	NA	170	79	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	620	45	310	44	µg/kg	222.5	67	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	130	99	79	97	µg/kg	490	NA	51	196	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1200	99	500	97	µg/kg	490	82	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	95	99	39	97	µg/kg	490	NA	56	196	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	360	99	230	97	µg/kg	490	NA	130	196	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	120	200	89	190	µg/kg	975	NA	31	390	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	200	200	120	190	µg/kg	975	NA	80	390	None, absolute difference ≤ 2x Avg RL
Naphthalene	200	200	100	190	µg/kg	975	NA	100	390	None, absolute difference ≤ 2x Avg RL
Phenanthrene	860	40	410	39	µg/kg	197.5	71	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	1100	99	440	97	µg/kg	490	NA	660	196	J/UJ-flag, absolute difference > 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Job ID: 680-88118-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88118-2

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

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

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

RECEIPT

The samples were received on 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0116B-CS-SP (680-88118-21), HP0113A-CS (680-88118-22), HP0113A-CSD (680-88118-23), CV0166A-CS (680-88118-24), CV0166B-CS (680-88118-25), CV0350A-CS (680-88118-26), CV0350B-CS (680-88118-27), CV0350C-GS (680-88118-28), CV0518A-CS (680-88118-29), CV0518B-CS (680-88118-30), CV0822A-CS (680-88118-31), CV0822B-CS (680-88118-32), CV0822C-CS (680-88118-33), CV0822D-CS (680-88118-34), CV0822E-CS (680-88118-35), CV0822F-CS (680-88118-36), CV0822F-CSD (680-88118-37), CV0911A-CS (680-88118-38) and CV0911B-CS (680-88118-39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples FM0116B-CS-SP (680-88118-21)[4X], HP0113A-CS (680-88118-22)[4X], HP0113A-CSD (680-88118-23)[20X], HP0113A-CSD (680-88118-23)[4X], CV0166B-CS (680-88118-25)[4X], CV0350B-CS (680-88118-27)[4X], CV0350C-GS (680-88118-28)[4X], CV0518A-CS (680-88118-29)[4X], CV0518B-CS (680-88118-30)[4X], CV0822A-CS (680-88118-31)[4X], CV0822B-CS (680-88118-32)[4X], CV0822C-CS (680-88118-33)[4X], CV0822E-CS (680-88118-35)[4X], CV0822F-CS (680-88118-36)[4X] and CV0822F-CSD (680-88118-37)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: FM0116B-CS-SP

Lab Sample ID: 680-88118-21

Date Collected: 03/06/13 10:47

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 65.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	610	U	610	120	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Anthracene	120		51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[a]anthracene	520		49	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[a]pyrene	440	J	63	32	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[b]fluoranthene	770		74	37	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[g,h,i]perylene	330		120	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[k]fluoranthene	280	J	49	22	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Chrysene	630		55	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Dibenz(a,h)anthracene	110	J	120	25	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Fluoranthene	1000		120	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Fluorene	57	J	120	25	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Indeno[1,2,3-cd]pyrene	290		120	43	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
1-Methylnaphthalene	98	J	240	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
2-Methylnaphthalene	210	J	240	43	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Naphthalene	190	J	240	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Phenanthrene	620		49	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Pyrene	880		120	22	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/14/13 10:53	03/15/13 17:27	4

Client Sample ID: HP0113A-CS

Lab Sample ID: 680-88118-22

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	820	J	490	99	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Acenaphthylene	53	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Anthracene	1300	J	41	21	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[a]anthracene	4800	J	39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[a]pyrene	4000	J	51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[b]fluoranthene	6100	J	60	30	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[g,h,i]perylene	2600	J	99	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[k]fluoranthene	2800	J	39	18	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Chrysene	4100	J	44	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Dibenz(a,h)anthracene	760	J	99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Fluoranthene	9600	J	99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Fluorene	600	J	99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Indeno[1,2,3-cd]pyrene	2200	J	99	35	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
2-Methylnaphthalene	140	J	200	35	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Naphthalene	130	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Phenanthrene	5600	J	39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Pyrene	7500	J	99	18	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				03/14/13 10:53	03/15/13 18:22	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: HP0113A-CSD

Lab Sample ID: 680-88118-23

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9500	J	480	97	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
Acenaphthylene	200		190	24	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
Anthracene	15000	J	41	20	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
Dibenz(a,h)anthracene	5700	J	97	20	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
Fluorene	8300	J	97	20	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
1-Methylnaphthalene	1100	J	190	21	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
2-Methylnaphthalene	1700	J	190	34	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	4
Naphthalene	3300	J	190	21	ug/Kg	☐	03/14/13 10:53	03/15/13 18:40	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>	87		30 - 130				03/14/13 10:53	03/15/13 18:40	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	29000	J	190	94	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Benzo[a]pyrene	24000	J	250	130	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Benzo[b]fluoranthene	35000	J	290	150	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Benzo[g,h,i]perylene	15000	J	480	110	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Benzo[k]fluoranthene	16000	J	190	87	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Chrysene	26000	J	220	110	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Fluoranthene	66000	J	480	97	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Indeno[1,2,3-cd]pyrene	14000	J	480	170	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Phenanthrene	47000	J	190	94	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20
Pyrene	50000	J	480	89	ug/Kg	☐	03/14/13 10:53	03/19/13 14:47	20

Client Sample ID: CV0166A-CS

Lab Sample ID: 680-88118-24

Date Collected: 03/06/13 15:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 83.0

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	24	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Acenaphthylene	9.5	J	48	6.0	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Anthracene	25		10	5.0	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Benzo[a]anthracene	110		9.6	4.7	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Benzo[a]pyrene	110	J	12	6.2	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Benzo[b]fluoranthene	170		15	7.3	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Benzo[g,h,i]perylene	93		24	5.3	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Benzo[k]fluoranthene	63		9.6	4.3	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Chrysene	160	J	11	5.4	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Dibenz(a,h)anthracene	29		24	4.9	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Fluoranthene	200		24	4.8	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Fluorene	11	J	24	4.9	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Indeno[1,2,3-cd]pyrene	51		24	8.5	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
1-Methylnaphthalene	80		48	5.3	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
2-Methylnaphthalene	99		48	8.5	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Naphthalene	65		48	5.3	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Phenanthrene	150		9.6	4.7	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	1
Pyrene	180		24	4.4	ug/Kg	☐	03/14/13 10:53	03/15/13 18:59	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0166A-CS

Lab Sample ID: 680-88118-24

Date Collected: 03/06/13 15:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 83.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		30 - 130	03/14/13 10:53	03/15/13 18:59	1

Client Sample ID: CV0166B-CS

Lab Sample ID: 680-88118-25

Date Collected: 03/06/13 15:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 74.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	540	U	540	110	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Acenaphthylene	35	J	210	27	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Anthracene	83		45	23	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Benzo[a]anthracene	330		43	21	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Benzo[a]pyrene	330	J	56	28	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Benzo[b]fluoranthene	520		66	33	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Benzo[g,h,i]perylene	240		110	24	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Benzo[k]fluoranthene	180		43	19	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Chrysene	500	J	48	24	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Dibenz(a,h)anthracene	71	J	110	22	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Fluoranthene	600		110	21	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Fluorene	47	J	110	22	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Indeno[1,2,3-cd]pyrene	230		110	38	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
1-Methylnaphthalene	430		210	24	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
2-Methylnaphthalene	470		210	38	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Naphthalene	280		210	24	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Phenanthrene	540		43	21	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Pyrene	530		110	20	ug/Kg	☐	03/14/13 10:53	03/15/13 19:17	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
o-Terphenyl	60		30 - 130				03/14/13 10:53	03/15/13 19:17	4	

Client Sample ID: CV0350A-CS

Lab Sample ID: 680-88118-26

Date Collected: 03/06/13 13:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	64	J	130	26	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Acenaphthylene	13	J	52	6.4	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Anthracene	98		11	5.4	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Benzo[a]anthracene	440		10	5.0	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Benzo[a]pyrene	370	J	13	6.7	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Benzo[b]fluoranthene	580		16	7.9	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Benzo[g,h,i]perylene	220		26	5.7	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Benzo[k]fluoranthene	250		10	4.6	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Chrysene	420	J	12	5.8	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Dibenz(a,h)anthracene	68		26	5.3	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Fluoranthene	750		26	5.2	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Fluorene	51		26	5.3	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
Indeno[1,2,3-cd]pyrene	160		26	9.1	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
1-Methylnaphthalene	87		52	5.7	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	1	
2-Methylnaphthalene	130		52	9.1	ug/Kg	☐	03/14/13 10:53	03/15/13 19:36	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0350A-CS

Lab Sample ID: 680-88118-26

Date Collected: 03/06/13 13:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	79		52	5.7	ug/Kg	☒	03/14/13 10:53	03/15/13 19:36	1
Phenanthrene	540		10	5.0	ug/Kg	☒	03/14/13 10:53	03/15/13 19:36	1
Pyrene	670		26	4.8	ug/Kg	☒	03/14/13 10:53	03/15/13 19:36	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				03/14/13 10:53	03/15/13 19:36	1

Client Sample ID: CV0350B-CS

Lab Sample ID: 680-88118-27

Date Collected: 03/06/13 14:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Acenaphthylene	32	J	210	26	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Anthracene	37	J	44	22	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Benzo[a]anthracene	340		42	21	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Benzo[a]pyrene	250	J	55	27	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Benzo[b]fluoranthene	380		64	32	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Benzo[g,h,i]perylene	190		110	23	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Benzo[k]fluoranthene	130		42	19	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Chrysene	350	J	47	24	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Dibenz(a,h)anthracene	62	J	110	22	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Fluoranthene	400		110	21	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Fluorene	23	J	110	22	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Indeno[1,2,3-cd]pyrene	150		110	37	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
1-Methylnaphthalene	200	J	210	23	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
2-Methylnaphthalene	280		210	37	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Naphthalene	160	J	210	23	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Phenanthrene	360		42	21	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	4
Pyrene	400		110	19	ug/Kg	☒	03/14/13 10:53	03/15/13 19:54	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>	93		30 - 130				03/14/13 10:53	03/15/13 19:54	4

Client Sample ID: CV0350C-GS

Lab Sample ID: 680-88118-28

Date Collected: 03/06/13 14:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 89.3

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	☒	03/14/13 10:53	03/15/13 20:12	4
Acenaphthylene	170	U	170	22	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Anthracene	31	J	37	18	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Benzo[a]anthracene	120		35	17	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Benzo[a]pyrene	120	J	45	23	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Benzo[b]fluoranthene	170		53	27	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Benzo[g,h,i]perylene	90		87	19	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Benzo[k]fluoranthene	64		35	16	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	4
Chrysene	130	J	39	20	ug/Kg	☒	03/14/13 10:53	03/15/13 20:12	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0350C-GS

Lab Sample ID: 680-88118-28

Date Collected: 03/06/13 14:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 89.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	18	J	87	18	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Fluoranthene	140		87	17	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Fluorene	87	U	87	18	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Indeno[1,2,3-cd]pyrene	52	J	87	31	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
1-Methylnaphthalene	58	J	170	19	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
2-Methylnaphthalene	46	J	170	31	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Naphthalene	35	J	170	19	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Phenanthrene	140		35	17	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Pyrene	150		87	16	ug/Kg	☉	03/14/13 10:53	03/15/13 20:12	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/14/13 10:53	03/15/13 20:12	4

Client Sample ID: CV0518A-CS

Lab Sample ID: 680-88118-29

Date Collected: 03/06/13 14:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.7

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	☉	03/14/13 10:53	03/15/13 20:31	4
Acenaphthylene	39	J	210	26	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Anthracene	53		43	22	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Benzo[a]anthracene	290		41	20	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Benzo[a]pyrene	220	J	54	27	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Benzo[b]fluoranthene	370		63	31	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Benzo[g,h,i]perylene	170		100	23	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Benzo[k]fluoranthene	120		41	19	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Chrysene	280	J	46	23	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Fluoranthene	360		100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Fluorene	24	J	100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Indeno[1,2,3-cd]pyrene	140		100	37	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
1-Methylnaphthalene	250		210	23	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
2-Methylnaphthalene	330		210	37	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Naphthalene	240		210	23	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Phenanthrene	370		41	20	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Pyrene	370		100	19	ug/Kg	☉	03/14/13 10:53	03/15/13 20:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/14/13 10:53	03/15/13 20:31	4

Client Sample ID: CV0518B-CS

Lab Sample ID: 680-88118-30

Date Collected: 03/06/13 15:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☉	03/14/13 10:53	03/15/13 20:49	4
Acenaphthylene	300		200	25	ug/Kg	☉	03/14/13 10:53	03/15/13 20:49	4
Anthracene	200		42	21	ug/Kg	☉	03/14/13 10:53	03/15/13 20:49	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0518B-CS

Lab Sample ID: 680-88118-30

Date Collected: 03/06/13 15:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1700		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[a]pyrene	1300	J	52	26	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[b]fluoranthene	2100		61	31	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[g,h,i]perylene	850		100	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[k]fluoranthene	870	J	40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Chrysene	1600		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Dibenz(a,h)anthracene	230		100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Fluoranthene	2900		100	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Fluorene	47	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Indeno[1,2,3-cd]pyrene	680		100	36	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
2-Methylnaphthalene	260		200	36	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Naphthalene	240		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Phenanthrene	640		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Pyrene	3000		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/14/13 10:53	03/15/13 20:49	4

Client Sample ID: CV0822A-CS

Lab Sample ID: 680-88118-31

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

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	510	U	510	100	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Acenaphthylene	45	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Anthracene	78		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[a]anthracene	240		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[a]pyrene	240	J	53	26	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[b]fluoranthene	310		62	31	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[g,h,i]perylene	350		100	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[k]fluoranthene	220		40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Chrysene	280	J	45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Dibenz(a,h)anthracene	80	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Fluoranthene	370		100	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Fluorene	24	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Indeno[1,2,3-cd]pyrene	99	J	100	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
2-Methylnaphthalene	260		200	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Naphthalene	190	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Phenanthrene	380		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Pyrene	380		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/14/13 10:53	03/15/13 21:07	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822B-CS

Lab Sample ID: 680-88118-32

Date Collected: 03/06/13 12:30

Matrix: Solid

Date Received: 03/08/13 09:21

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	☐	03/14/13 10:53	03/15/13 21:26	4	
Acenaphthylene	31	J	200	25	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Anthracene	53		42	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Benzo[a]anthracene	230		40	20	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Benzo[a]pyrene	170	J	53	26	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Benzo[b]fluoranthene	330		62	31	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Benzo[g,h,i]perylene	170		100	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Benzo[k]fluoranthene	130		40	18	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Chrysene	220	J	45	23	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Dibenz(a,h)anthracene	31	J	100	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Fluoranthene	270		100	20	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Fluorene	100	U	100	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Indeno[1,2,3-cd]pyrene	110		100	36	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
1-Methylnaphthalene	110	J	200	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
2-Methylnaphthalene	94	J	200	36	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Naphthalene	74	J	200	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Phenanthrene	230		40	20	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Pyrene	280		100	19	ug/Kg	☐	03/14/13 10:53	03/15/13 21:26	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	57		30 - 130				03/14/13 10:53	03/15/13 21:26	4	

Client Sample ID: CV0822C-CS

Lab Sample ID: 680-88118-33

Date Collected: 03/06/13 12:40

Matrix: Solid

Date Received: 03/08/13 09:21

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	530	U	530	110	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Acenaphthylene	73	J	210	27	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Anthracene	86		45	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Benzo[a]anthracene	500		43	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Benzo[a]pyrene	590	J	55	28	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Benzo[b]fluoranthene	1100		65	32	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Benzo[g,h,i]perylene	370		110	23	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Benzo[k]fluoranthene	440		43	19	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Chrysene	700	J	48	24	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Dibenz(a,h)anthracene	140		110	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Fluoranthene	640		110	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Fluorene	59	J	110	22	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Indeno[1,2,3-cd]pyrene	330		110	38	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
1-Methylnaphthalene	250		210	23	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
2-Methylnaphthalene	330		210	38	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Naphthalene	240		210	23	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Phenanthrene	450		43	21	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Pyrene	700		110	20	ug/Kg	☐	03/14/13 10:53	03/15/13 21:44	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	88		30 - 130				03/14/13 10:53	03/15/13 21:44	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822D-CS

Lab Sample ID: 680-88118-34

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 71.0

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	28	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Acenaphthylene	7.8	J	56	7.0	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Anthracene	17		12	5.9	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Benzo[a]anthracene	62		11	5.5	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Benzo[a]pyrene	54	J	15	7.3	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Benzo[b]fluoranthene	94		17	8.6	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Benzo[g,h,i]perylene	49		28	6.2	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Benzo[k]fluoranthene	34		11	5.1	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Chrysene	86	J	13	6.3	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Dibenz(a,h)anthracene	11	J	28	5.8	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Fluoranthene	90		28	5.6	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Fluorene	6.9	J	28	5.8	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Indeno[1,2,3-cd]pyrene	38		28	10	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
1-Methylnaphthalene	50	J	56	6.2	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
2-Methylnaphthalene	54	J	56	10	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Naphthalene	45	J	56	6.2	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Phenanthrene	85		11	5.5	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Pyrene	81		28	5.2	ug/Kg	☐	03/14/13 10:53	03/15/13 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/14/13 10:53	03/15/13 22:02	1

Client Sample ID: CV0822E-CS

Lab Sample ID: 680-88118-35

Date Collected: 03/06/13 13:00

Matrix: Solid

Date Received: 03/08/13 09:21

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	☐	03/14/13 10:53	03/15/13 22:21	4
Acenaphthylene	180	J	200	25	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Anthracene	110		41	21	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Benzo[a]anthracene	650		39	19	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Benzo[a]pyrene	1100	J	51	26	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Benzo[b]fluoranthene	2000		60	30	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Benzo[g,h,i]perylene	720		98	22	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Benzo[k]fluoranthene	720		39	18	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Chrysene	980	J	44	22	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Dibenz(a,h)anthracene	220		98	20	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Fluoranthene	680		98	20	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Fluorene	41	J	98	20	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Indeno[1,2,3-cd]pyrene	700		98	35	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
1-Methylnaphthalene	220		200	22	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
2-Methylnaphthalene	220		200	35	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Naphthalene	240		200	22	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Phenanthrene	380		39	19	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Pyrene	760		98	18	ug/Kg	☐	03/14/13 10:53	03/15/13 22:21	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		30 - 130				03/14/13 10:53	03/15/13 22:21	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822F-CS

Lab Sample ID: 680-88118-36

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	J	500	99	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Acenaphthylene	200	U	200	25	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Anthracene	180	J	42	21	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Benzo[a]anthracene	570	J	40	19	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Benzo[a]pyrene	600	J	51	26	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Benzo[b]fluoranthene	970	J	60	30	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Benzo[g,h,i]perylene	430	J	99	22	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Benzo[k]fluoranthene	340	J	40	18	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Chrysene	620	J	45	22	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Dibenz(a,h)anthracene	130	J	99	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Fluoranthene	1200	J	99	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Fluorene	95	J	99	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Indeno[1,2,3-cd]pyrene	360	J	99	35	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
1-Methylnaphthalene	120	J	200	22	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
2-Methylnaphthalene	200	J	200	35	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Naphthalene	200	J	200	22	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Phenanthrene	860	J	40	19	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Pyrene	1100	J	99	18	ug/Kg	☒	03/14/13 10:53	03/15/13 22:39	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				03/14/13 10:53	03/15/13 22:39	4

Client Sample ID: CV0822F-CSD

Lab Sample ID: 680-88118-37

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.1

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	97	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Acenaphthylene	190	U	190	24	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Anthracene	66	J	41	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Benzo[a]anthracene	320	J	39	19	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Benzo[a]pyrene	310	J	50	25	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Benzo[b]fluoranthene	480	J	59	30	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Benzo[g,h,i]perylene	250	J	97	21	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Benzo[k]fluoranthene	170	J	39	17	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Chrysene	310	J	44	22	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Dibenz(a,h)anthracene	79	J	97	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Fluoranthene	500	J	97	19	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Fluorene	39	J	97	20	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Indeno[1,2,3-cd]pyrene	230	J	97	34	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
1-Methylnaphthalene	89	J	190	21	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Naphthalene	100	J	190	21	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Phenanthrene	410	J	39	19	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Pyrene	440	J	97	18	ug/Kg	☒	03/14/13 10:53	03/15/13 22:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/14/13 10:53	03/15/13 22:57	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0911A-CS

Lab Sample ID: 680-88118-38

Date Collected: 03/06/13 15:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 68.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Acenaphthylene	58	U	58	7.3	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Anthracene	14		12	6.1	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Benzo[a]anthracene	79		12	5.7	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Benzo[a]pyrene	64	J	15	7.6	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Benzo[b]fluoranthene	120		18	8.9	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Benzo[g,h,i]perylene	60		29	6.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Benzo[k]fluoranthene	40		12	5.2	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Chrysene	140	J	13	6.6	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Dibenz(a,h)anthracene	20	J	29	6.0	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Fluoranthene	110		29	5.8	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Fluorene	8.3	J	29	6.0	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Indeno[1,2,3-cd]pyrene	50		29	10	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
1-Methylnaphthalene	99		58	6.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
2-Methylnaphthalene	110		58	10	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Naphthalene	83		58	6.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Phenanthrene	140		12	5.7	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Pyrene	130		29	5.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/14/13 10:53	03/15/13 23:16	1

Client Sample ID: CV0911B-CS

Lab Sample ID: 680-88118-39

Date Collected: 03/06/13 15:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.6

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	☆	03/14/13 10:53	03/15/13 23:34	1
Acenaphthylene	7.7	J	55	6.9	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Anthracene	12		12	5.8	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Benzo[a]anthracene	50		11	5.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Benzo[a]pyrene	44	J	14	7.2	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Benzo[b]fluoranthene	70		17	8.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Benzo[g,h,i]perylene	44		28	6.1	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Benzo[k]fluoranthene	26		11	5.0	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Chrysene	89	J	12	6.2	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Dibenz(a,h)anthracene	13	J	28	5.7	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Fluoranthene	66		28	5.5	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Fluorene	7.7	J	28	5.7	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Indeno[1,2,3-cd]pyrene	27	J	28	9.8	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
1-Methylnaphthalene	83		55	6.1	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
2-Methylnaphthalene	120		55	9.8	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Naphthalene	81		55	6.1	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Phenanthrene	110		11	5.4	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Pyrene	62		28	5.1	ug/Kg	☆	03/14/13 10:53	03/15/13 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				03/14/13 10:53	03/15/13 23:34	1

TestAmerica Savannah

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

ANALYTICAL REPORT

Job Number: 680-88118-2

SDG Number: 68088118-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
3/20/2013 1:43 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

03/20/2013

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

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TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Sample Summary	5
Method Summary	6
Method / Analyst Summary	7
Data Qualifiers	8
QC Association Summary	9
Manual Integration Summary	12
Organic Sample Data	21
GC/MS Semi VOA	21
Method 8270C Low Level	21
Method 8270C Low Level QC Summary	22
Method 8270C Low Level Sample Data	37
Standards Data	498
Method 8270C Low Level ICAL Data	498
Method 8270C Low Level CCAL Data	523
Raw QC Data	536
Method 8270C Low Level Tune Data	536
Method 8270C Low Level Blank Data	551
Method 8270C Low Level LCS/LCSD Data	554
Method 8270C Low Level MS/MSD Data	559
Method 8270C Low Level Run Logs	570
Method 8270C Low Level Prep Data	573
Inorganic Sample Data	575
General Chemistry Data	575

Table of Contents

Gen Chem Cover Page	576
Gen Chem MDL	577
Gen Chem Analysis Run Log	579
Gen Chem Prep Data	581
Shipping and Receiving Documents	583
Client Chain of Custody	584
Sample Receipt Checklist	587

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88118-2

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

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

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

RECEIPT

The samples were received on 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0116B-CS-SP (680-88118-21), HP0113A-CS (680-88118-22), HP0113A-CSD (680-88118-23), CV0166A-CS (680-88118-24), CV0166B-CS (680-88118-25), CV0350A-CS (680-88118-26), CV0350B-CS (680-88118-27), CV0350C-GS (680-88118-28), CV0518A-CS (680-88118-29), CV0518B-CS (680-88118-30), CV0822A-CS (680-88118-31), CV0822B-CS (680-88118-32), CV0822C-CS (680-88118-33), CV0822D-CS (680-88118-34), CV0822E-CS (680-88118-35), CV0822F-CS (680-88118-36), CV0822F-CSD (680-88118-37), CV0911A-CS (680-88118-38) and CV0911B-CS (680-88118-39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples FM0116B-CS-SP (680-88118-21)[4X], HP0113A-CS (680-88118-22)[4X], HP0113A-CSD (680-88118-23)[20X], HP0113A-CSD (680-88118-23)[4X], CV0166B-CS (680-88118-25)[4X], CV0350B-CS (680-88118-27)[4X], CV0350C-GS (680-88118-28)[4X], CV0518A-CS (680-88118-29)[4X], CV0518B-CS (680-88118-30)[4X], CV0822A-CS (680-88118-31)[4X], CV0822B-CS (680-88118-32)[4X], CV0822C-CS (680-88118-33)[4X], CV0822E-CS (680-88118-35)[4X], CV0822F-CS (680-88118-36)[4X] and CV0822F-CSD (680-88118-37)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

Sdg Number: 68088118-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88118-21	FM0116B-CS-SP	Solid	03/06/2013 1047	03/08/2013 0921
680-88118-21MS	FM0116B-CS-SP	Solid	03/06/2013 1047	03/08/2013 0921
680-88118-21MSD	FM0116B-CS-SP	Solid	03/06/2013 1047	03/08/2013 0921
680-88118-22	HP0113A-CS	Solid	03/06/2013 0835	03/08/2013 0921
680-88118-23	HP0113A-CSD	Solid	03/06/2013 0835	03/08/2013 0921
680-88118-24	CV0166A-CS	Solid	03/06/2013 1540	03/08/2013 0921
680-88118-25	CV0166B-CS	Solid	03/06/2013 1550	03/08/2013 0921
680-88118-26	CV0350A-CS	Solid	03/06/2013 1350	03/08/2013 0921
680-88118-27	CV0350B-CS	Solid	03/06/2013 1400	03/08/2013 0921
680-88118-28	CV0350C-GS	Solid	03/06/2013 1410	03/08/2013 0921
680-88118-29	CV0518A-CS	Solid	03/06/2013 1450	03/08/2013 0921
680-88118-30	CV0518B-CS	Solid	03/06/2013 1500	03/08/2013 0921
680-88118-31	CV0822A-CS	Solid	03/06/2013 1220	03/08/2013 0921
680-88118-32	CV0822B-CS	Solid	03/06/2013 1230	03/08/2013 0921
680-88118-33	CV0822C-CS	Solid	03/06/2013 1240	03/08/2013 0921
680-88118-34	CV0822D-CS	Solid	03/06/2013 1250	03/08/2013 0921
680-88118-35	CV0822E-CS	Solid	03/06/2013 1300	03/08/2013 0921
680-88118-36	CV0822F-CS	Solid	03/06/2013 1310	03/08/2013 0921
680-88118-37	CV0822F-CSD	Solid	03/06/2013 1310	03/08/2013 0921
680-88118-38	CV0911A-CS	Solid	03/06/2013 1510	03/08/2013 0921
680-88118-39	CV0911B-CS	Solid	03/06/2013 1520	03/08/2013 0921

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2
Sdg Number: 68088118-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
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: 680-88118-2

Sdg Number: 68088118-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

Sdg Number: 68088118-2

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

Sdg Number: 68088118-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135392					
LCS 660-135392/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135392/1-A	Method Blank	T	Solid	3546	
680-88118-21	FM0116B-CS-SP	T	Solid	3546	
680-88118-21MS	Matrix Spike	T	Solid	3546	
680-88118-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88118-22	HP0113A-CS	T	Solid	3546	
680-88118-23	HP0113A-CSD	T	Solid	3546	
680-88118-23DL	HP0113A-CSD	T	Solid	3546	
680-88118-24	CV0166A-CS	T	Solid	3546	
680-88118-25	CV0166B-CS	T	Solid	3546	
680-88118-26	CV0350A-CS	T	Solid	3546	
680-88118-27	CV0350B-CS	T	Solid	3546	
680-88118-28	CV0350C-GS	T	Solid	3546	
680-88118-29	CV0518A-CS	T	Solid	3546	
680-88118-30	CV0518B-CS	T	Solid	3546	
680-88118-31	CV0822A-CS	T	Solid	3546	
680-88118-32	CV0822B-CS	T	Solid	3546	
680-88118-33	CV0822C-CS	T	Solid	3546	
680-88118-34	CV0822D-CS	T	Solid	3546	
680-88118-35	CV0822E-CS	T	Solid	3546	
680-88118-36	CV0822F-CS	T	Solid	3546	
680-88118-37	CV0822F-CSD	T	Solid	3546	
680-88118-38	CV0911A-CS	T	Solid	3546	
680-88118-39	CV0911B-CS	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

Sdg Number: 68088118-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135469					
LCS 660-135392/2-A	Lab Control Sample	T	Solid	8270C LL	660-135392
MB 660-135392/1-A	Method Blank	T	Solid	8270C LL	660-135392
680-88118-21	FM0116B-CS-SP	T	Solid	8270C LL	660-135392
680-88118-21MS	Matrix Spike	T	Solid	8270C LL	660-135392
680-88118-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135392
680-88118-22	HP0113A-CS	T	Solid	8270C LL	660-135392
680-88118-23	HP0113A-CSD	T	Solid	8270C LL	660-135392
680-88118-24	CV0166A-CS	T	Solid	8270C LL	660-135392
680-88118-25	CV0166B-CS	T	Solid	8270C LL	660-135392
680-88118-26	CV0350A-CS	T	Solid	8270C LL	660-135392
680-88118-27	CV0350B-CS	T	Solid	8270C LL	660-135392
680-88118-28	CV0350C-GS	T	Solid	8270C LL	660-135392
680-88118-29	CV0518A-CS	T	Solid	8270C LL	660-135392
680-88118-30	CV0518B-CS	T	Solid	8270C LL	660-135392
680-88118-31	CV0822A-CS	T	Solid	8270C LL	660-135392
680-88118-32	CV0822B-CS	T	Solid	8270C LL	660-135392
680-88118-33	CV0822C-CS	T	Solid	8270C LL	660-135392
680-88118-34	CV0822D-CS	T	Solid	8270C LL	660-135392
680-88118-35	CV0822E-CS	T	Solid	8270C LL	660-135392
680-88118-36	CV0822F-CS	T	Solid	8270C LL	660-135392
680-88118-37	CV0822F-CSD	T	Solid	8270C LL	660-135392
680-88118-38	CV0911A-CS	T	Solid	8270C LL	660-135392
680-88118-39	CV0911B-CS	T	Solid	8270C LL	660-135392
Analysis Batch:660-135536					
680-88118-23DL	HP0113A-CSD	T	Solid	8270C LL	660-135392

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

Sdg Number: 68088118-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135258					
MB 660-135258/1	Method Blank	T	Solid	Moisture	
680-88118-A-11 MS	Matrix Spike	T	Solid	Moisture	
680-88118-A-11 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88118-21	FM0116B-CS-SP	T	Solid	Moisture	
680-88118-21MS	Matrix Spike	T	Solid	Moisture	
680-88118-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88118-22	HP0113A-CS	T	Solid	Moisture	
680-88118-23	HP0113A-CSD	T	Solid	Moisture	
680-88118-24	CV0166A-CS	T	Solid	Moisture	
680-88118-25	CV0166B-CS	T	Solid	Moisture	
680-88118-26	CV0350A-CS	T	Solid	Moisture	
680-88118-27	CV0350B-CS	T	Solid	Moisture	
680-88118-28	CV0350C-GS	T	Solid	Moisture	
680-88118-29	CV0518A-CS	T	Solid	Moisture	
680-88118-30	CV0518B-CS	T	Solid	Moisture	
680-88118-31	CV0822A-CS	T	Solid	Moisture	
680-88118-32	CV0822B-CS	T	Solid	Moisture	
680-88118-33	CV0822C-CS	T	Solid	Moisture	
680-88118-34	CV0822D-CS	T	Solid	Moisture	
680-88118-35	CV0822E-CS	T	Solid	Moisture	
680-88118-36	CV0822F-CS	T	Solid	Moisture	
680-88118-37	CV0822F-CSD	T	Solid	Moisture	
680-88118-38	CV0911A-CS	T	Solid	Moisture	
680-88118-39	CV0911B-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: _____Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2

SDG No.: 68088118-2

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID: _____

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

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

Lab Sample ID: IC 660-134776/9 Client Sample ID: _____

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

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

Lab Sample ID: ICV 660-134776/10 Client Sample ID: _____

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: CCVIS 660-135469/3 Client Sample ID: _____Date Analyzed: 03/15/13 14:42 Lab File ID: 1CC15003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/15/13 15:05

Lab Sample ID: LCS 660-135392/2-A Client Sample ID: _____Date Analyzed: 03/15/13 17:09 Lab File ID: 1CC15007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:07

Lab Sample ID: 680-88118-21 Client Sample ID: FM0116B-CS-SPDate Analyzed: 03/15/13 17:27 Lab File ID: 1CC15008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/19/13 13:08
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:08
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:09
Benzo[g,h,i]perylene	10.43	Baseline Event	cantins	03/19/13 13:09

Lab Sample ID: 680-88118-21 MS Client Sample ID: FM0116B-CS-SP MSDate Analyzed: 03/15/13 17:46 Lab File ID: 1CC15009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.85	Baseline Event	cantins	03/19/13 13:10
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88118-21 MSD Client Sample ID: FM0116B-CS-SP MSDDate Analyzed: 03/15/13 18:04 Lab File ID: 1CC15010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:11

Lab Sample ID: 680-88118-22 Client Sample ID: HP0113A-CSDate Analyzed: 03/15/13 18:22 Lab File ID: 1CC15011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:12
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:12
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:12

Lab Sample ID: 680-88118-24 Client Sample ID: CV0166A-CSDate Analyzed: 03/15/13 18:59 Lab File ID: 1CC15013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:40
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:40
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:41

Lab Sample ID: 680-88118-25 Client Sample ID: CV0166B-CSDate Analyzed: 03/15/13 19:17 Lab File ID: 1CC15014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:42
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:42
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:43
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88118-26 Client Sample ID: CV0350A-CSDate Analyzed: 03/15/13 19:36 Lab File ID: 1CC15015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:44

Lab Sample ID: 680-88118-27 Client Sample ID: CV0350B-CSDate Analyzed: 03/15/13 19:54 Lab File ID: 1CC15016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:45
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:45
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:46

Lab Sample ID: 680-88118-28 Client Sample ID: CV0350C-GSDate Analyzed: 03/15/13 20:12 Lab File ID: 1CC15017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:49

Lab Sample ID: 680-88118-29 Client Sample ID: CV0518A-CSDate Analyzed: 03/15/13 20:31 Lab File ID: 1CC15018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:50
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 13:49
Indeno[1,2,3-cd]pyrene	10.09	Baseline Event	cantins	03/19/13 13:51
Benzo[g,h,i]perylene	10.45	Baseline Event	cantins	03/19/13 13:50

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88118-30 Client Sample ID: CV0518B-CSDate Analyzed: 03/15/13 20:49 Lab File ID: 1CC15019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:52
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:52
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:52

Lab Sample ID: 680-88118-31 Client Sample ID: CV0822A-CSDate Analyzed: 03/15/13 21:07 Lab File ID: 1CC15020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:54
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 13:55
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:56
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/19/13 13:56

Lab Sample ID: 680-88118-32 Client Sample ID: CV0822B-CSDate Analyzed: 03/15/13 21:26 Lab File ID: 1CC15021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 13:58
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 13:58
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88118-33 Client Sample ID: CV0822C-CSDate Analyzed: 03/15/13 21:44 Lab File ID: 1CC15022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 14:02
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 14:03
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:03
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:17

Lab Sample ID: 680-88118-34 Client Sample ID: CV0822D-CSDate Analyzed: 03/15/13 22:02 Lab File ID: 1CC15023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 14:05
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 14:05
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:05
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:05
Benzo[g,h,i]perylene	10.45	Baseline Event	cantins	03/19/13 14:05

Lab Sample ID: 680-88118-35 Client Sample ID: CV0822E-CSDate Analyzed: 03/15/13 22:21 Lab File ID: 1CC15024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 14:06
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 14:07
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 14:07
Benzo[g,h,i]perylene	10.44	Baseline Event	cantins	03/19/13 14:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88118-36 Client Sample ID: CV0822F-CSDate Analyzed: 03/15/13 22:39 Lab File ID: 1CC15025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/19/13 14:08
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 14:08
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:08

Lab Sample ID: 680-88118-37 Client Sample ID: CV0822F-CSDDate Analyzed: 03/15/13 22:57 Lab File ID: 1CC15026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 14:09
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/19/13 14:09
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:10
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:10
Benzo[g,h,i]perylene	10.44	Baseline Event	cantins	03/19/13 14:10

Lab Sample ID: 680-88118-38 Client Sample ID: CV0911A-CSDate Analyzed: 03/15/13 23:16 Lab File ID: 1CC15027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:11
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:11

Lab Sample ID: 680-88118-39 Client Sample ID: CV0911B-CSDate Analyzed: 03/15/13 23:34 Lab File ID: 1CC15028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:12
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2

SDG No.: 68088118-2

Instrument ID: BSMC5973 Analysis Batch Number: 135536

Lab Sample ID: CCVIS 660-135536/3 Client Sample ID: _____

Date Analyzed: 03/19/13 11:18 Lab File ID: 1CC19003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 11:41

Lab Sample ID: 680-88118-23 DL Client Sample ID: HP0113A-CSD DL

Date Analyzed: 03/19/13 14:47 Lab File ID: 1CC19010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.59	Split Peak	cantins	03/19/13 15:38
Benzo[k]fluoranthene	8.60	Baseline Event	cantins	03/19/13 15:38
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/19/13 15:39

Method 8270C Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-88118-2

SDG No.: 68088118-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0116B-CS-SP	680-88118-21	75
HP0113A-CS	680-88118-22	76
HP0113A-CSD	680-88118-23	87
CV0166A-CS	680-88118-24	68
CV0166B-CS	680-88118-25	60
CV0350A-CS	680-88118-26	56
CV0350B-CS	680-88118-27	93
CV0350C-GS	680-88118-28	73
CV0518A-CS	680-88118-29	75
CV0518B-CS	680-88118-30	73
CV0822A-CS	680-88118-31	69
CV0822B-CS	680-88118-32	57
CV0822C-CS	680-88118-33	88
CV0822D-CS	680-88118-34	54
CV0822E-CS	680-88118-35	79
CV0822F-CS	680-88118-36	67
CV0822F-CSD	680-88118-37	72
CV0911A-CS	680-88118-38	57
CV0911B-CS	680-88118-39	55
	MB 660-135392/1-A	67
	LCS 660-135392/2-A	71
FM0116B-CS-SP MS	680-88118-21 MS	73
FM0116B-CS-SP MSD	680-88118-21 MSD	72

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.: 680-88118-2
 SDG No.: 68088118-2
 Matrix: Solid Level: Low Lab File ID: 1CC15007.D
 Lab ID: LCS 660-135392/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	659	486	74	39-130	
Acenaphthylene	659	499	76	38-130	
Anthracene	659	482	73	37-130	
Benzo[a]anthracene	659	483	73	40-130	
Benzo[a]pyrene	659	451	68	49-130	
Benzo[b]fluoranthene	659	451	68	37-130	
Benzo[g,h,i]perylene	659	483	73	32-130	
Benzo[k]fluoranthene	659	550	83	32-130	
Chrysene	659	458	70	41-130	
Dibenz(a,h)anthracene	659	475	72	27-130	
Fluoranthene	659	497	75	40-130	
Fluorene	659	539	82	40-130	
Indeno[1,2,3-cd]pyrene	659	441	67	30-130	
1-Methylnaphthalene	659	509	77	31-130	
2-Methylnaphthalene	659	494	75	33-130	
Naphthalene	659	490	74	36-130	
Phenanthrene	659	493	75	42-130	
Pyrene	659	499	76	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.: 680-88118-2
 SDG No.: 68088118-2
 Matrix: Solid Level: Low Lab File ID: 1CC15009.D
 Lab ID: 680-88118-21 MS Client ID: FM0116B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1010	610 U	793	78	39-130	
Acenaphthylene	1010	240 U	831	82	38-130	
Anthracene	1010	120	919	79	37-130	
Benzo[a]anthracene	1010	520	1330	80	40-130	
Benzo[a]pyrene	1010	440	1220	77	49-130	
Benzo[b]fluoranthene	1010	770	1440	66	37-130	
Benzo[g,h,i]perylene	1010	330	983	64	32-130	
Benzo[k]fluoranthene	1010	280	1210	92	32-130	
Chrysene	1010	630	1270	64	41-130	
Dibenz(a,h)anthracene	1010	110 J	867	75	27-130	
Fluoranthene	1010	1000	1730	72	40-130	
Fluorene	1010	57 J	795	73	40-130	
Indeno[1,2,3-cd]pyrene	1010	290	995	70	30-130	
1-Methylnaphthalene	1010	98 J	924	82	31-130	
2-Methylnaphthalene	1010	210 J	986	77	33-130	
Naphthalene	1010	190 J	935	74	36-130	
Phenanthrene	1010	620	1380	75	42-130	
Pyrene	1010	880	1630	74	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.: 680-88118-2
 SDG No.: 68088118-2
 Matrix: Solid Level: Low Lab File ID: 1CC15010.D
 Lab ID: 680-88118-21 MSD Client ID: FM0116B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1010	757	75	5	40	39-130	
Acenaphthylene	1010	875	86	5	40	38-130	
Anthracene	1010	848	72	8	40	37-130	
Benzo[a]anthracene	1010	1330	80	0	40	40-130	
Benzo[a]pyrene	1010	1090	64	11	40	49-130	
Benzo[b]fluoranthene	1010	1480	70	2	40	37-130	
Benzo[g,h,i]perylene	1010	996	65	1	40	32-130	
Benzo[k]fluoranthene	1010	1230	94	2	40	32-130	
Chrysene	1010	1290	66	1	40	41-130	
Dibenz(a,h)anthracene	1010	824	71	5	40	27-130	
Fluoranthene	1010	1680	66	3	40	40-130	
Fluorene	1010	731	67	8	40	40-130	
Indeno[1,2,3-cd]pyrene	1010	1040	74	4	40	30-130	
1-Methylnaphthalene	1010	887	78	4	40	31-130	
2-Methylnaphthalene	1010	916	70	7	40	33-130	
Naphthalene	1010	853	66	9	40	36-130	
Phenanthrene	1010	1320	69	5	40	42-130	
Pyrene	1010	1630	74	0	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab File ID: 1CC15006.D Lab Sample ID: MB 660-135392/1-A
 Matrix: Solid Date Extracted: 03/14/2013 10:53
 Instrument ID: BSMC5973 Date Analyzed: 03/15/2013 16:51
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135392/2-A	1CC15007.D	03/15/2013 17:09
FM0116B-CS-SP	680-88118-21	1CC15008.D	03/15/2013 17:27
FM0116B-CS-SP MS	680-88118-21 MS	1CC15009.D	03/15/2013 17:46
FM0116B-CS-SP MSD	680-88118-21 MSD	1CC15010.D	03/15/2013 18:04
HP0113A-CS	680-88118-22	1CC15011.D	03/15/2013 18:22
HP0113A-CSD	680-88118-23	1CC15012.D	03/15/2013 18:40
CV0166A-CS	680-88118-24	1CC15013.D	03/15/2013 18:59
CV0166B-CS	680-88118-25	1CC15014.D	03/15/2013 19:17
CV0350A-CS	680-88118-26	1CC15015.D	03/15/2013 19:36
CV0350B-CS	680-88118-27	1CC15016.D	03/15/2013 19:54
CV0350C-GS	680-88118-28	1CC15017.D	03/15/2013 20:12
CV0518A-CS	680-88118-29	1CC15018.D	03/15/2013 20:31
CV0518B-CS	680-88118-30	1CC15019.D	03/15/2013 20:49
CV0822A-CS	680-88118-31	1CC15020.D	03/15/2013 21:07
CV0822B-CS	680-88118-32	1CC15021.D	03/15/2013 21:26
CV0822C-CS	680-88118-33	1CC15022.D	03/15/2013 21:44
CV0822D-CS	680-88118-34	1CC15023.D	03/15/2013 22:02
CV0822E-CS	680-88118-35	1CC15024.D	03/15/2013 22:21
CV0822F-CS	680-88118-36	1CC15025.D	03/15/2013 22:39
CV0822F-CSD	680-88118-37	1CC15026.D	03/15/2013 22:57
CV0911A-CS	680-88118-38	1CC15027.D	03/15/2013 23:16
CV0911B-CS	680-88118-39	1CC15028.D	03/15/2013 23:34
HP0113A-CSD DL	680-88118-23 DL	1CC19010.D	03/19/2013 14:47

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 134776

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab File ID: 1CC15002.D DFTPP Injection Date: 03/15/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 14:13
 Analysis Batch No.: 135469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	30.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	37.4
70	Less than 2.0 % of mass 69	0.1 (0.3)1
127	10.0 - 80.0 % of mass 198	41.7
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	25.6
365	Greater than 1.0 % of mass 198	5.2
441	Present but less than mass 443	15.2
442	Greater than 50.0 % of mass 198	98.7
443	15.0 - 24.0 % of mass 442	19.8 (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 660-135469/3	1CC15003.D	03/15/2013	14:42
	MB 660-135392/1-A	1CC15006.D	03/15/2013	16:51
	LCS 660-135392/2-A	1CC15007.D	03/15/2013	17:09
FM0116B-CS-SP	680-88118-21	1CC15008.D	03/15/2013	17:27
FM0116B-CS-SP MS	680-88118-21 MS	1CC15009.D	03/15/2013	17:46
FM0116B-CS-SP MSD	680-88118-21 MSD	1CC15010.D	03/15/2013	18:04
HP0113A-CS	680-88118-22	1CC15011.D	03/15/2013	18:22
HP0113A-CSD	680-88118-23	1CC15012.D	03/15/2013	18:40
CV0166A-CS	680-88118-24	1CC15013.D	03/15/2013	18:59
CV0166B-CS	680-88118-25	1CC15014.D	03/15/2013	19:17
CV0350A-CS	680-88118-26	1CC15015.D	03/15/2013	19:36
CV0350B-CS	680-88118-27	1CC15016.D	03/15/2013	19:54
CV0350C-GS	680-88118-28	1CC15017.D	03/15/2013	20:12
CV0518A-CS	680-88118-29	1CC15018.D	03/15/2013	20:31
CV0518B-CS	680-88118-30	1CC15019.D	03/15/2013	20:49
CV0822A-CS	680-88118-31	1CC15020.D	03/15/2013	21:07
CV0822B-CS	680-88118-32	1CC15021.D	03/15/2013	21:26
CV0822C-CS	680-88118-33	1CC15022.D	03/15/2013	21:44
CV0822D-CS	680-88118-34	1CC15023.D	03/15/2013	22:02
CV0822E-CS	680-88118-35	1CC15024.D	03/15/2013	22:21
CV0822F-CS	680-88118-36	1CC15025.D	03/15/2013	22:39
CV0822F-CSD	680-88118-37	1CC15026.D	03/15/2013	22:57
CV0911A-CS	680-88118-38	1CC15027.D	03/15/2013	23:16

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab File ID: 1CC15002.D DFTPP Injection Date: 03/15/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 14:13
 Analysis Batch No.: 135469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	30.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	37.4
70	Less than 2.0 % of mass 69	0.1 (0.3)1
127	10.0 - 80.0 % of mass 198	41.7
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	25.6
365	Greater than 1.0 % of mass 198	5.2
441	Present but less than mass 443	15.2
442	Greater than 50.0 % of mass 198	98.7
443	15.0 - 24.0 % of mass 442	19.8 (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
CV0911B-CS	680-88118-39	1CC15028.D	03/15/2013	23:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab File ID: 1CC19002.D DFTPP Injection Date: 03/19/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:57
 Analysis Batch No.: 135536

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.6
68	Less than 2.0 % of mass 69	0.9 (1.9)1
69	Mass 69 relative abundance	46.8
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	46.1
197	Less than 2.0 % of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.6
275	10.0 - 60.0 % of mass 198	22.6
365	Greater than 1.0 % of mass 198	2.5
441	Present but less than mass 443	12.9
442	Greater than 50.0 % of mass 198	80.5
443	15.0 - 24.0 % of mass 442	15.9 (19.7)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 660-135536/3	1CC19003.D	03/19/2013	11:18
HP0113A-CSD DL	680-88118-23 DL	1CC19010.D	03/19/2013	14:47

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

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

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 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.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: CCVIS 660-135469/3 Date Analyzed: 03/15/2013 14:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	946459	3.75	734532	4.84	1374424	5.79	
UPPER LIMIT	1892918	4.25	1469064	5.34	2748848	6.29	
LOWER LIMIT	473230	3.25	367266	4.34	687212	5.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135392/1-A	939347	3.75	723507	4.84	1400314	5.79	
LCS 660-135392/2-A	970938	3.75	740042	4.83	1413817	5.79	
680-88118-21	FM0116B-CS-SP	1172793	3.75	908274	4.83	1638571	5.79
680-88118-21 MS	FM0116B-CS-SP MS	1152686	3.75	909744	4.83	1600846	5.79
680-88118-21 MSD	FM0116B-CS-SP MSD	1171459	3.75	888797	4.83	1611446	5.79
680-88118-22	HP0113A-CS	1251015	3.75	978747	4.83	1737915	5.79
680-88118-23	HP0113A-CSD	1141677	3.75	878542	4.83	1543835	5.79
680-88118-24	CV0166A-CS	1106203	3.75	854810	4.83	1570846	5.79
680-88118-25	CV0166B-CS	1212303	3.75	916617	4.83	1713681	5.79
680-88118-26	CV0350A-CS	1250795	3.75	954865	4.83	1732247	5.79
680-88118-27	CV0350B-CS	1122209	3.75	830433	4.83	1549185	5.79
680-88118-28	CV0350C-GS	1118421	3.75	863735	4.83	1597105	5.79
680-88118-29	CV0518A-CS	1153347	3.75	885810	4.83	1604355	5.79
680-88118-30	CV0518B-CS	1186034	3.75	930473	4.83	1679479	5.79
680-88118-31	CV0822A-CS	1134437	3.75	867790	4.83	1569588	5.79
680-88118-32	CV0822B-CS	1319719	3.75	970098	4.83	1778229	5.79
680-88118-33	CV0822C-CS	1107583	3.75	848138	4.83	1551870	5.79
680-88118-34	CV0822D-CS	1305168	3.75	988238	4.83	1809548	5.79
680-88118-35	CV0822E-CS	1018053	3.75	791209	4.83	1557036	5.79
680-88118-36	CV0822F-CS	1275818	3.75	967709	4.83	1738375	5.79
680-88118-37	CV0822F-CSD	1850424	3.75	1361391	4.83	2492100	5.79
680-88118-38	CV0911A-CS	1237330	3.75	941093	4.83	1677510	5.79
680-88118-39	CV0911B-CS	1334804	3.75	1020429	4.83	1804542	5.79

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.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: CCVIS 660-135469/3 Date Analyzed: 03/15/2013 14:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1665181	7.73	1675707	8.93		
UPPER LIMIT	3330362	8.23	3351414	9.43		
LOWER LIMIT	832591	7.23	837854	8.43		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135392/1-A		1658692	7.74	1746584	8.95	
LCS 660-135392/2-A		1770209	7.73	1805371	8.92	
680-88118-21	FM0116B-CS-SP	1847988	7.73	1882656	8.92	
680-88118-21 MS	FM0116B-CS-SP MS	1806634	7.73	1757770	8.92	
680-88118-21 MSD	FM0116B-CS-SP MSD	1720102	7.73	1710534	8.92	
680-88118-22	HP0113A-CS	2038879	7.73	1970653	8.92	
680-88118-23	HP0113A-CSD	2036139	7.73	1790032	8.92	
680-88118-24	CV0166A-CS	1878641	7.73	1877069	8.92	
680-88118-25	CV0166B-CS	1959623	7.73	1916684	8.92	
680-88118-26	CV0350A-CS	1843110	7.73	1801652	8.92	
680-88118-27	CV0350B-CS	1723254	7.73	1714885	8.92	
680-88118-28	CV0350C-GS	1776329	7.73	1728050	8.92	
680-88118-29	CV0518A-CS	1710773	7.73	1591659	8.92	
680-88118-30	CV0518B-CS	1903455	7.73	1833655	8.92	
680-88118-31	CV0822A-CS	1718283	7.73	1662705	8.92	
680-88118-32	CV0822B-CS	1917337	7.73	1813373	8.92	
680-88118-33	CV0822C-CS	1701356	7.73	1625994	8.92	
680-88118-34	CV0822D-CS	1908862	7.73	1794812	8.92	
680-88118-35	CV0822E-CS	1792908	7.73	1702844	8.92	
680-88118-36	CV0822F-CS	1896846	7.73	1763598	8.92	
680-88118-37	CV0822F-CSD	2710403	7.73	2452208	8.92	
680-88118-38	CV0911A-CS	1787251	7.73	1702788	8.92	
680-88118-39	CV0911B-CS	1919970	7.73	1778389	8.92	

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.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: CCVIS 660-135536/3 Date Analyzed: 03/19/2013 11:18
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC19003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	865475	3.75	693688	4.83	1269350	5.78		
UPPER LIMIT	1730950	4.25	1387376	5.33	2538700	6.28		
LOWER LIMIT	432738	3.25	346844	4.33	634675	5.28		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-88118-23 DL	HP0113A-CSD DL		1111852	3.75	867796	4.83	1605569	5.79

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.: 680-88118-2
 SDG No.: 68088118-2
 Sample No.: CCVIS 660-135536/3 Date Analyzed: 03/19/2013 11:18
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC19003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1624187	7.72	1682198	8.91		
UPPER LIMIT	3248374	8.22	3364396	9.41		
LOWER LIMIT	812094	7.22	841099	8.41		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88118-23 DL	HP0113A-CSD DL		1896300	7.73	1869172	8.93

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.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: FM0116B-CS-SP Lab Sample ID: 680-88118-21
 Matrix: Solid Lab File ID: 1CC15008.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:47
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.01(g) Date Analyzed: 03/15/2013 17:27
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	610	U	610	120
208-96-8	Acenaphthylene	240	U	240	30
120-12-7	Anthracene	120		51	26
56-55-3	Benzo[a]anthracene	520		49	24
50-32-8	Benzo[a]pyrene	440		63	32
205-99-2	Benzo[b]fluoranthene	770		74	37
191-24-2	Benzo[g,h,i]perylene	330		120	27
207-08-9	Benzo[k]fluoranthene	280		49	22
218-01-9	Chrysene	630		55	27
53-70-3	Dibenz(a,h)anthracene	110	J	120	25
206-44-0	Fluoranthene	1000		120	24
86-73-7	Fluorene	57	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	290		120	43
90-12-0	1-Methylnaphthalene	98	J	240	27
91-57-6	2-Methylnaphthalene	210	J	240	43
91-20-3	Naphthalene	190	J	240	27
85-01-8	Phenanthrene	620		49	24
129-00-0	Pyrene	880		120	22

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\1C031513.b\1CC15008.D
 Lab Smp Id: 680-88118-A-21-A Client Smp ID: FM0116B-CS-SP
 Inj Date : 15-MAR-2013 17:27
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-21-a
 Misc Info : 680-88118-A-21-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 8
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	34.199	% 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		3.751	3.751	(1.000)	1172793	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	908274	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1638571	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	46190	1.86704	756.1403	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1847988	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1882656	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	14260	0.46705	189.1509(Q)	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	10373	0.50932	206.2714	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	4492	0.24217	98.0776(Q)	
9 Fluorene	166		5.174	5.174	(1.071)	4067	0.14129	57.2211	
11 Phenanthrene	178		5.798	5.804	(1.002)	72132	1.52241	616.5643	
12 Anthracene	178		5.833	5.839	(1.008)	13410	0.28940	117.2041	
13 Carbazole	167		5.939	5.945	(1.026)	8089	0.19638	79.5319	
15 Fluoranthene	202		6.633	6.639	(1.146)	128490	2.47634	1002.9002	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----	----	-----	-----	-----	-----	-----	
16 Pyrene	202	6.804	6.810	(0.880)	108321	2.18116	883.3563	
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	68109	1.27697	517.1631	
19 Chrysene	228	7.745	7.751	(1.002)	82445	1.54459	625.5490	
20 Benzo(b)fluoranthene	252	8.562	8.580	(0.960)	93210	1.89448	767.2519(M)	
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	34789	0.68927	279.1488(MH)	
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	51804	1.08399	439.0086	
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	32087	0.71373	289.0546(M)	
25 Dibenzo(a,h)anthracene	278	10.097	10.127	(1.133)	11895	0.27050	109.5504	
26 Benzo(g,h,i)perylene	276	10.433	10.462	(1.170)	38694	0.82277	333.2175(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: 1CC15008.D

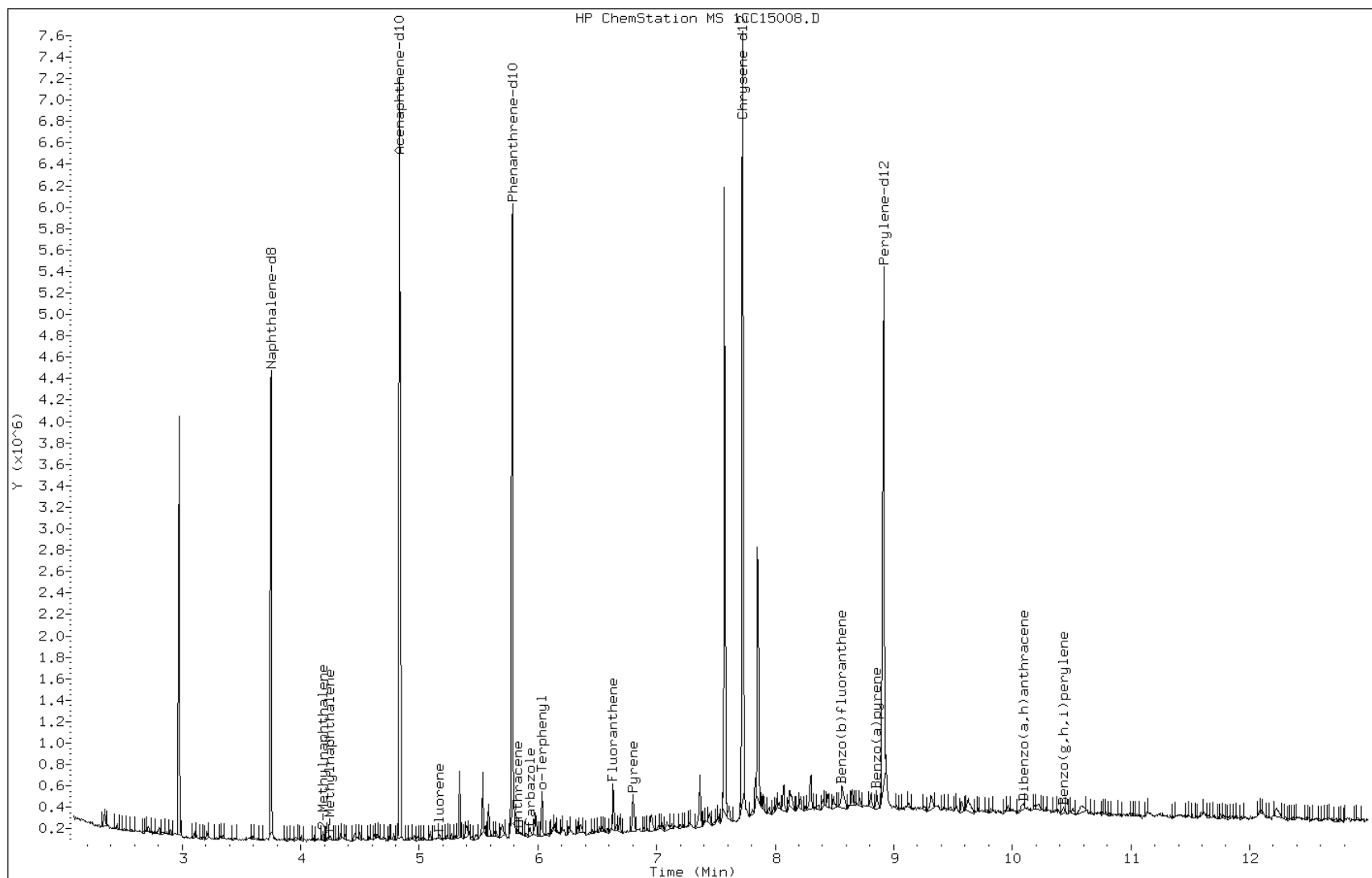
Date: 15-MAR-2013 17:27

Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

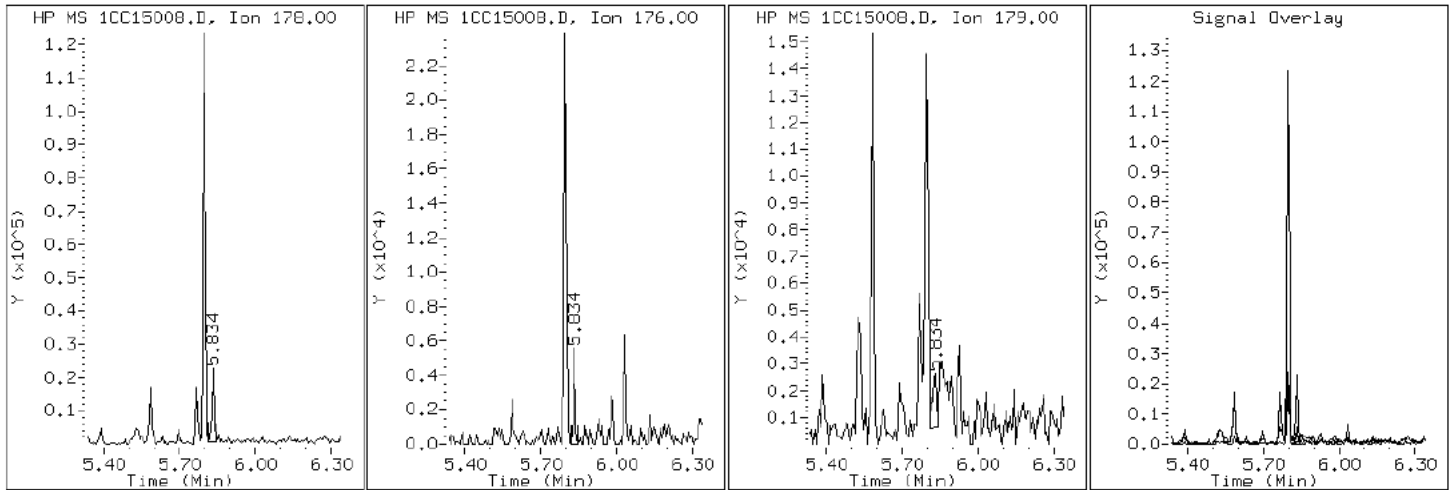
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

12 Anthracene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

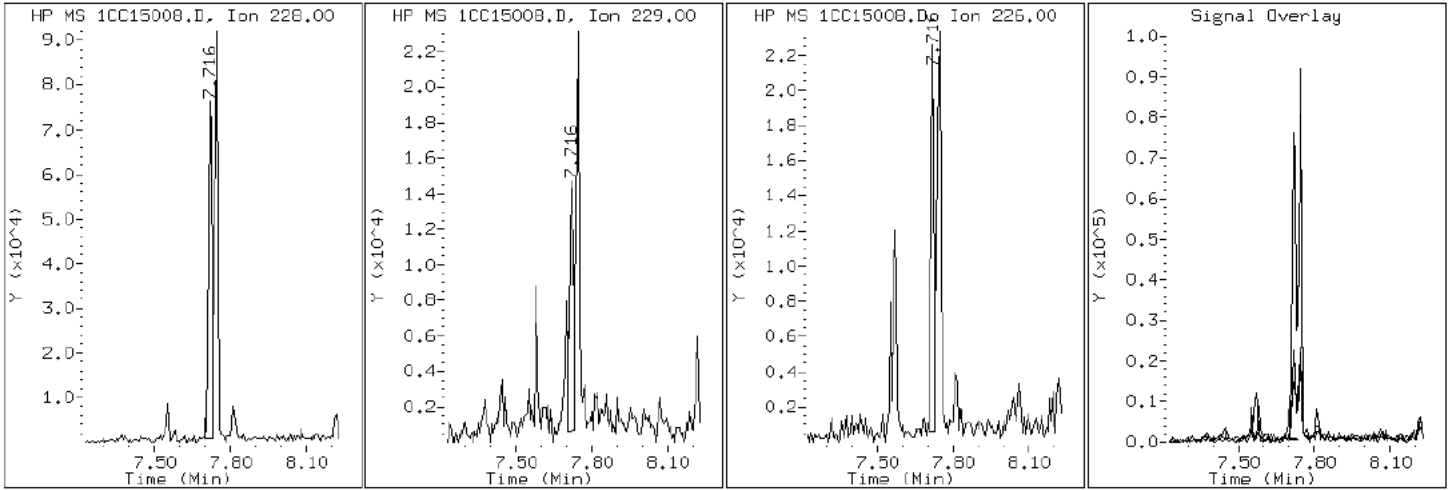
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

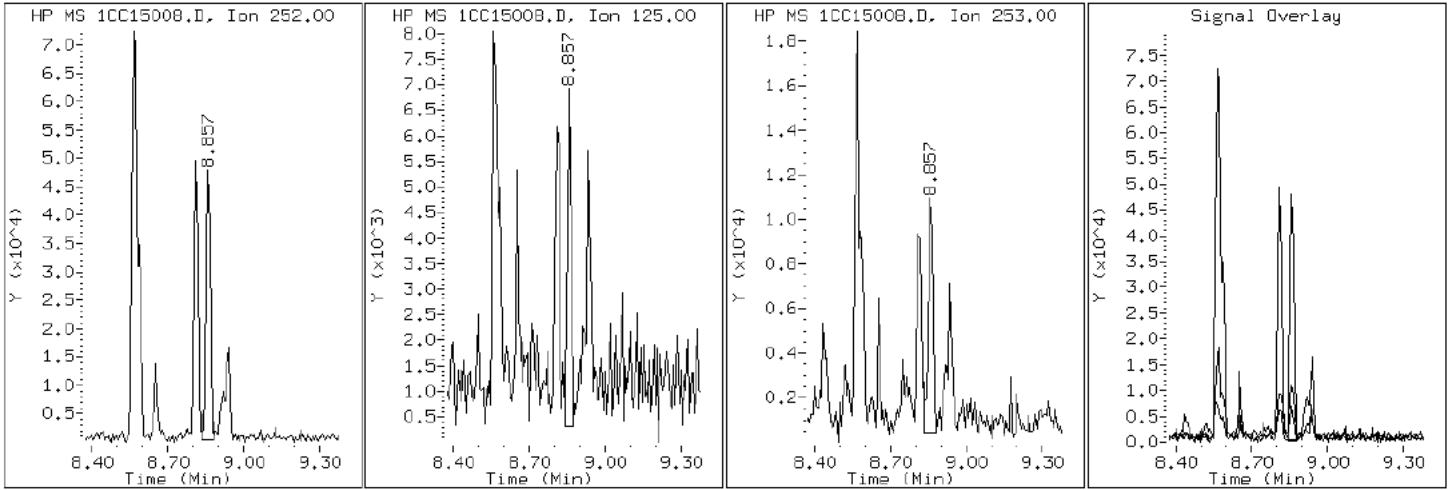
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

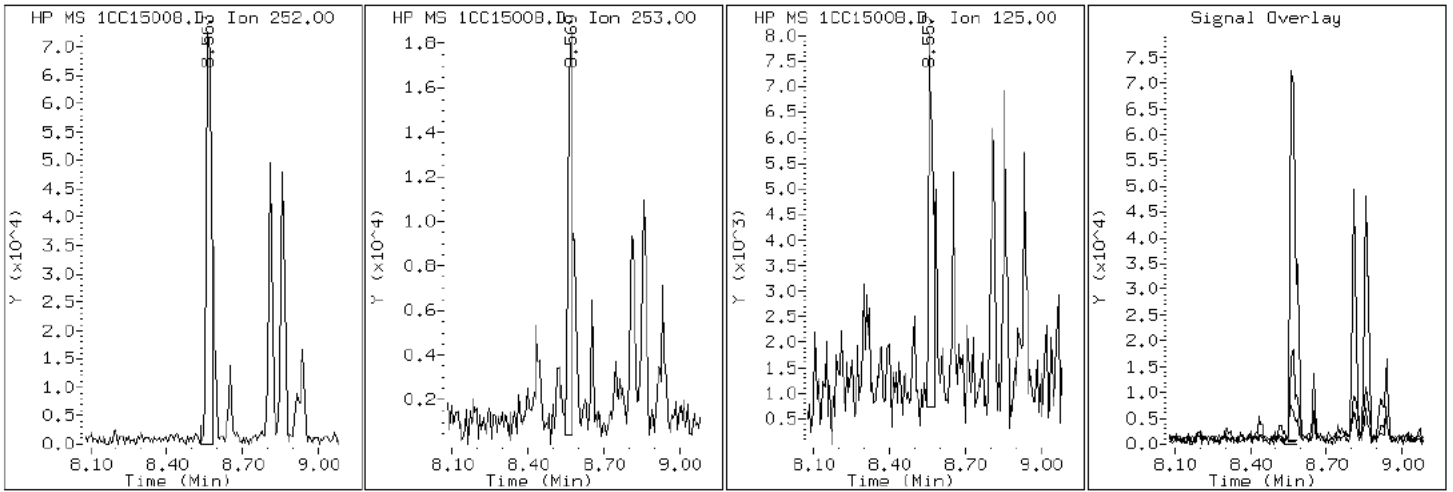
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

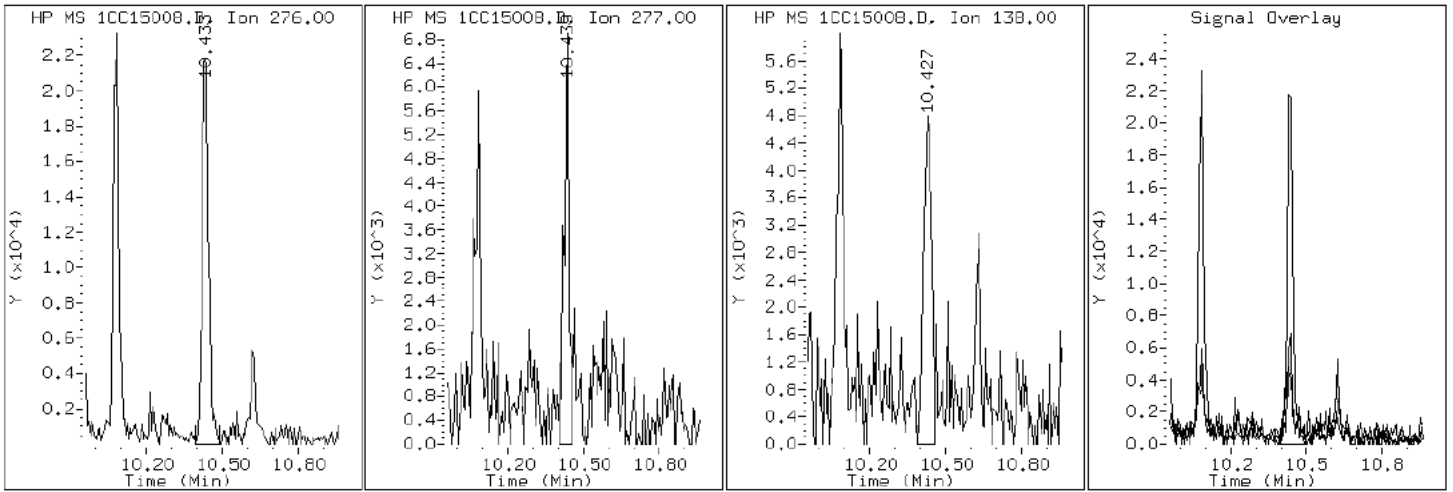
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

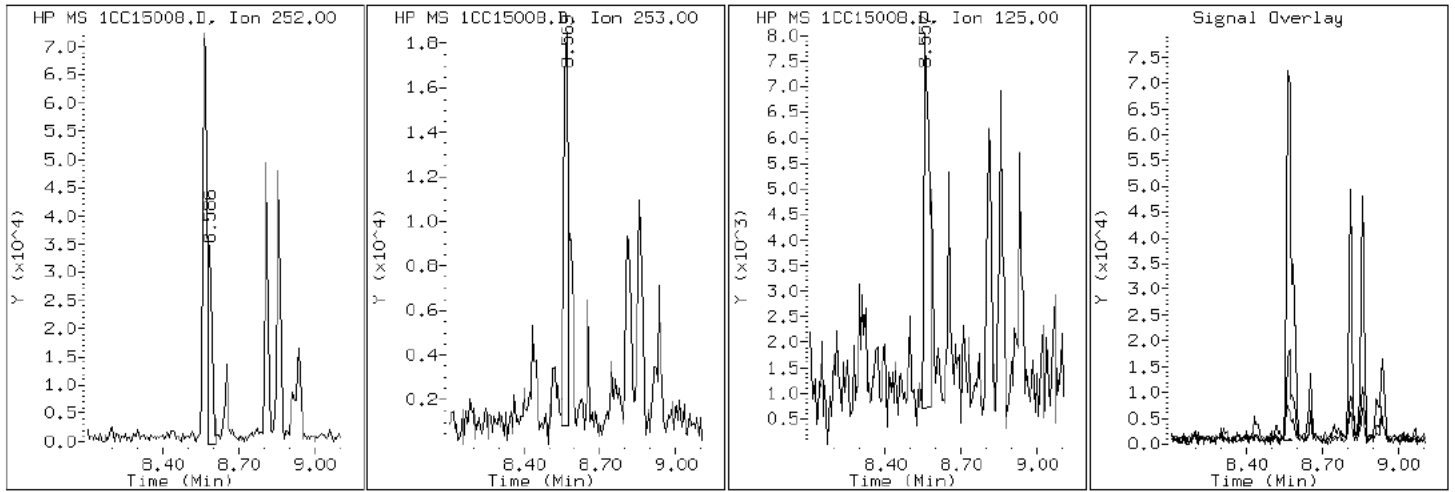
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

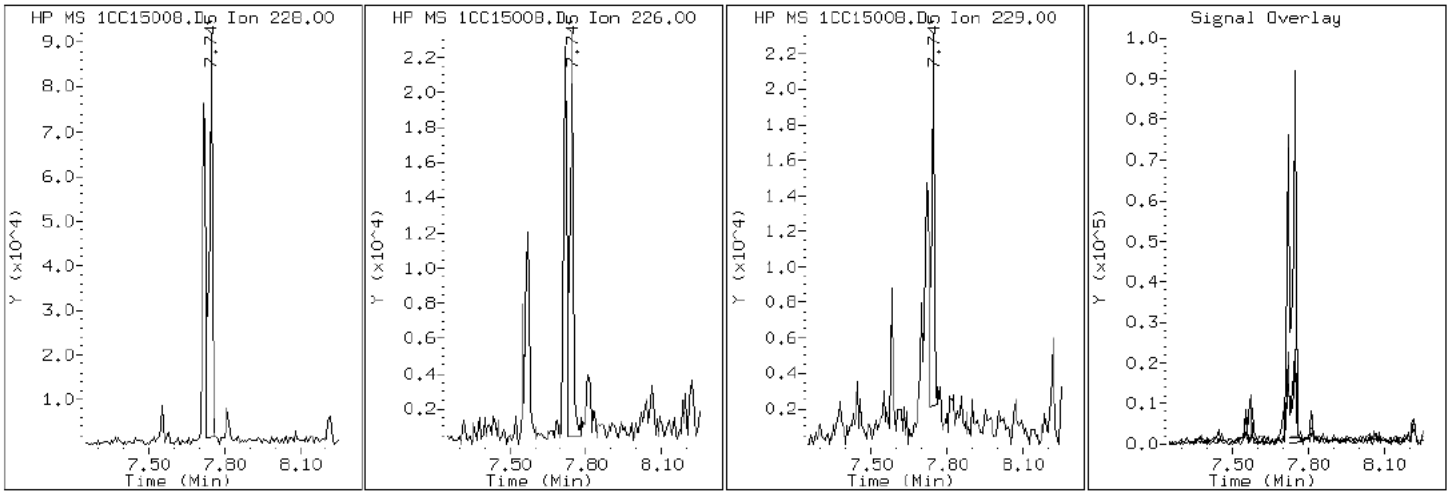
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

19 Chrysene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

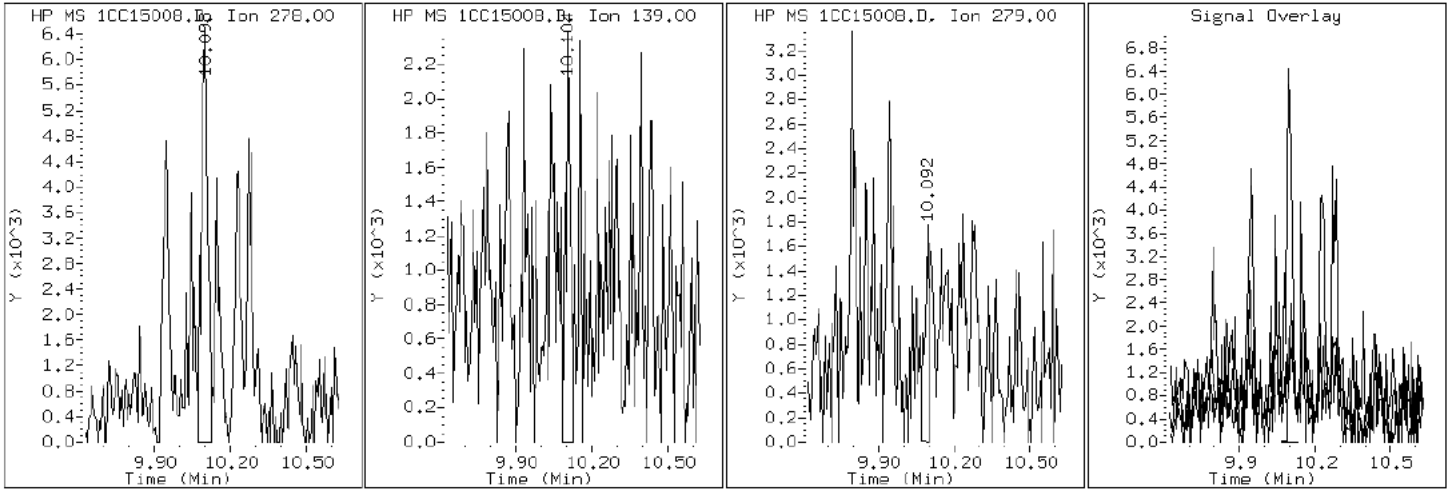
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

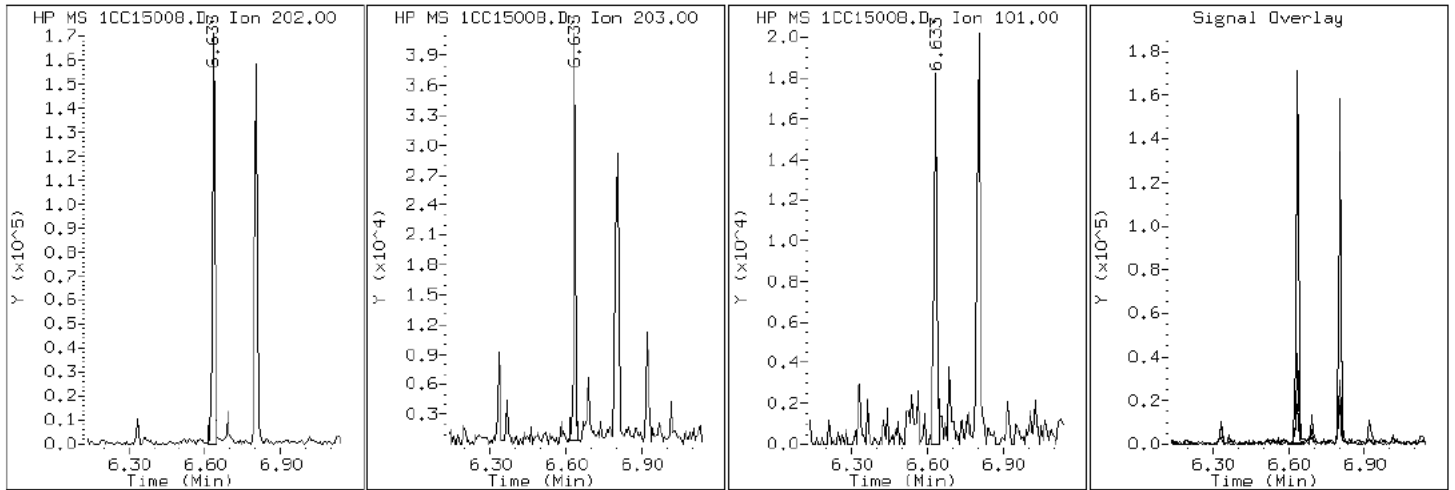
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

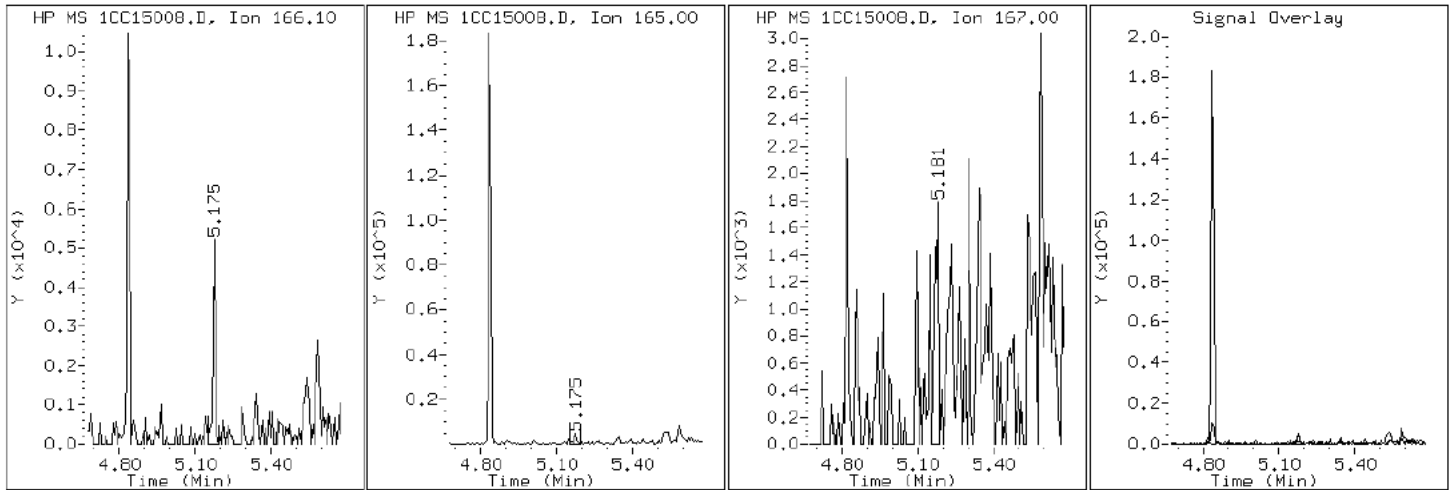
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

9 Fluorene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

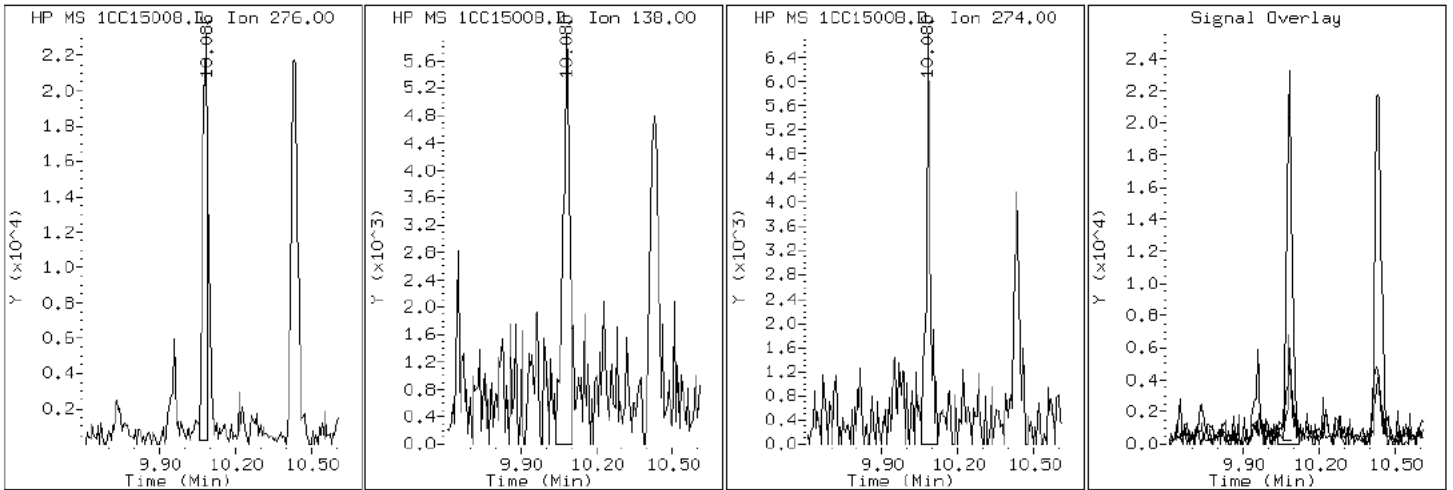
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

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



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

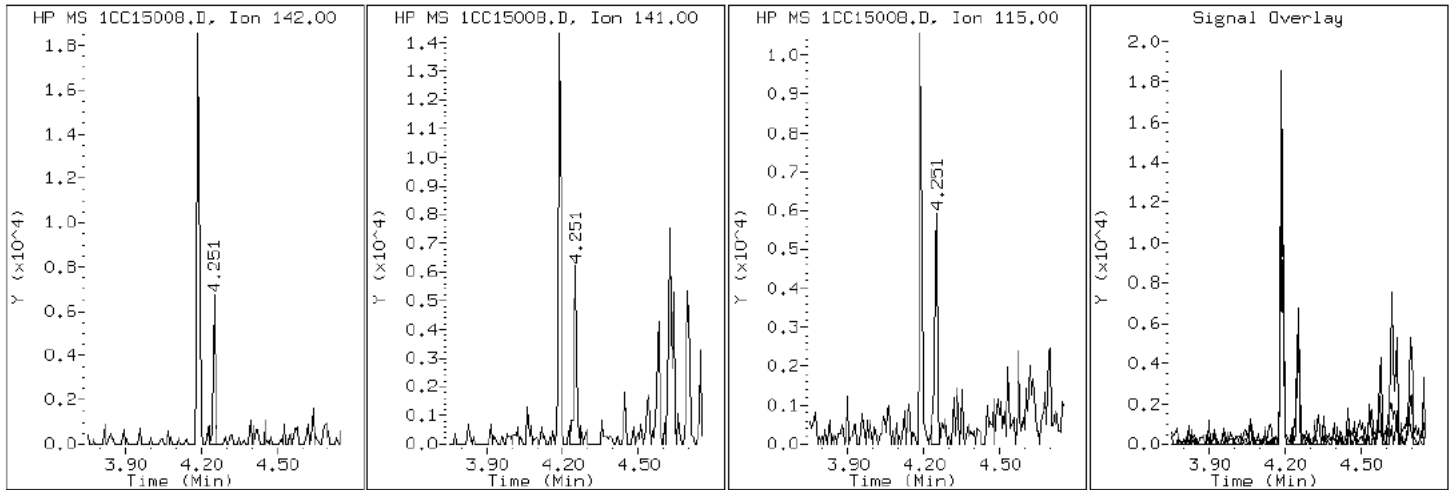
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

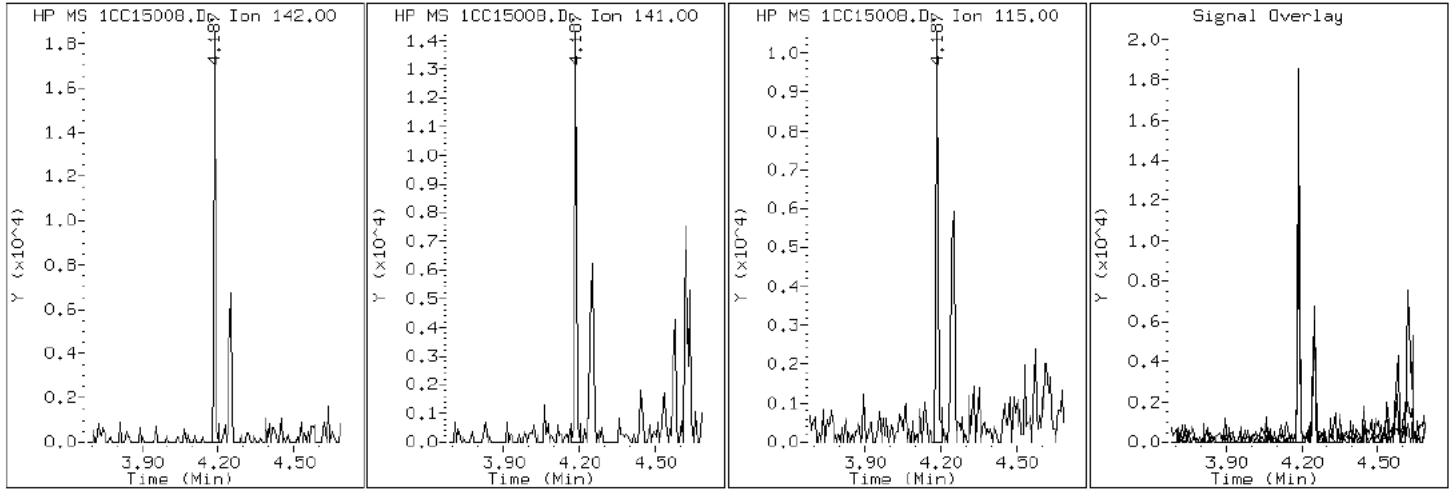
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

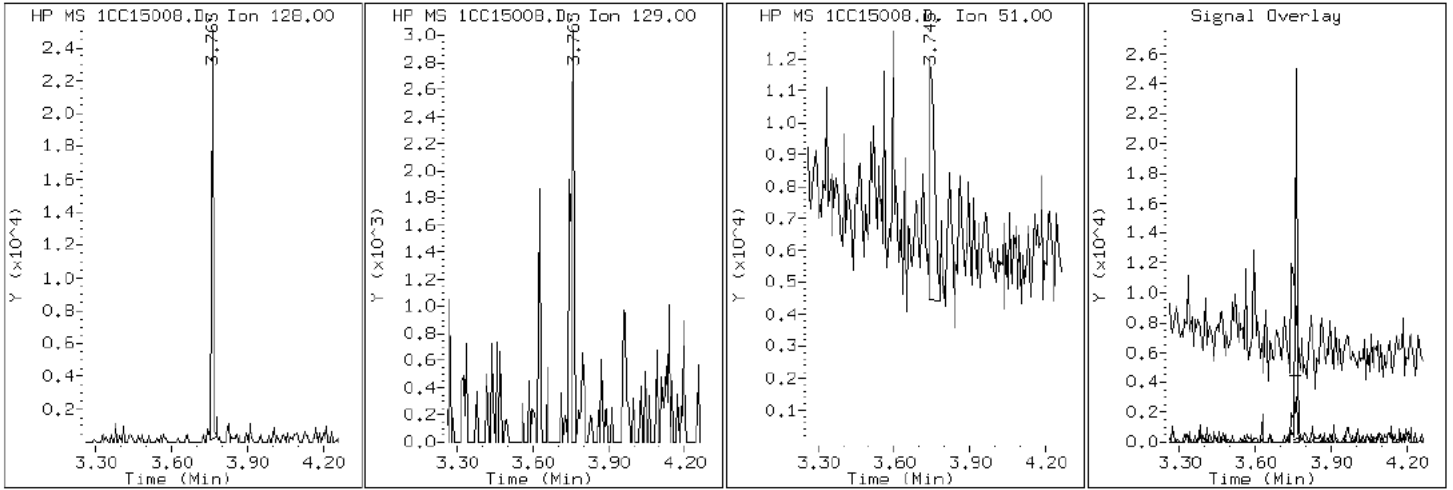
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

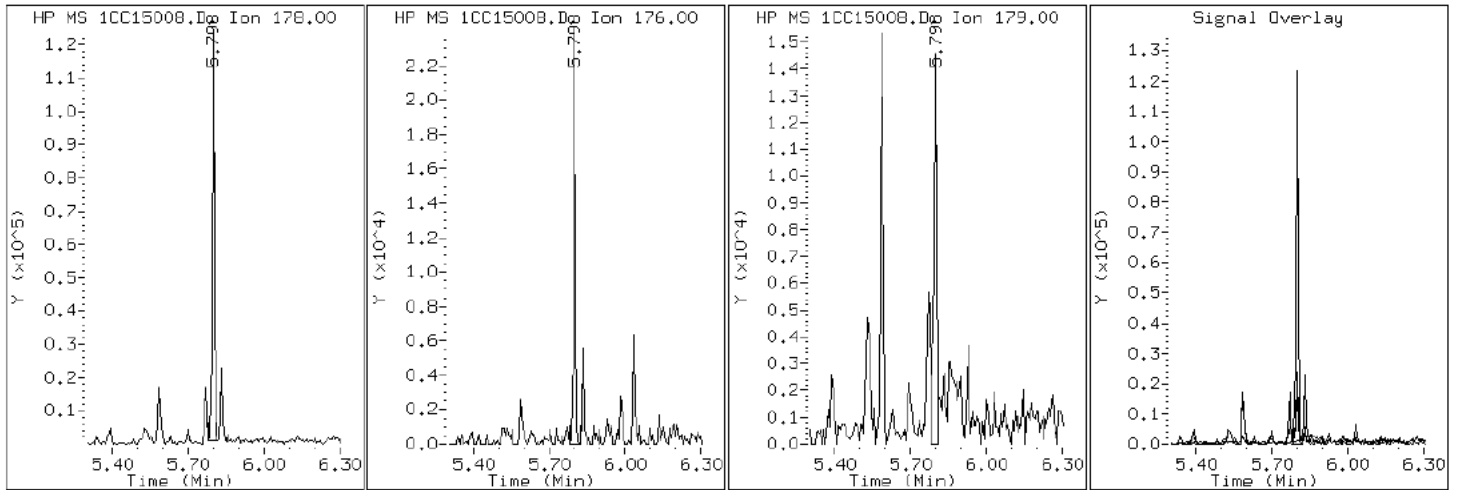
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15008.D

Date: 15-MAR-2013 17:27

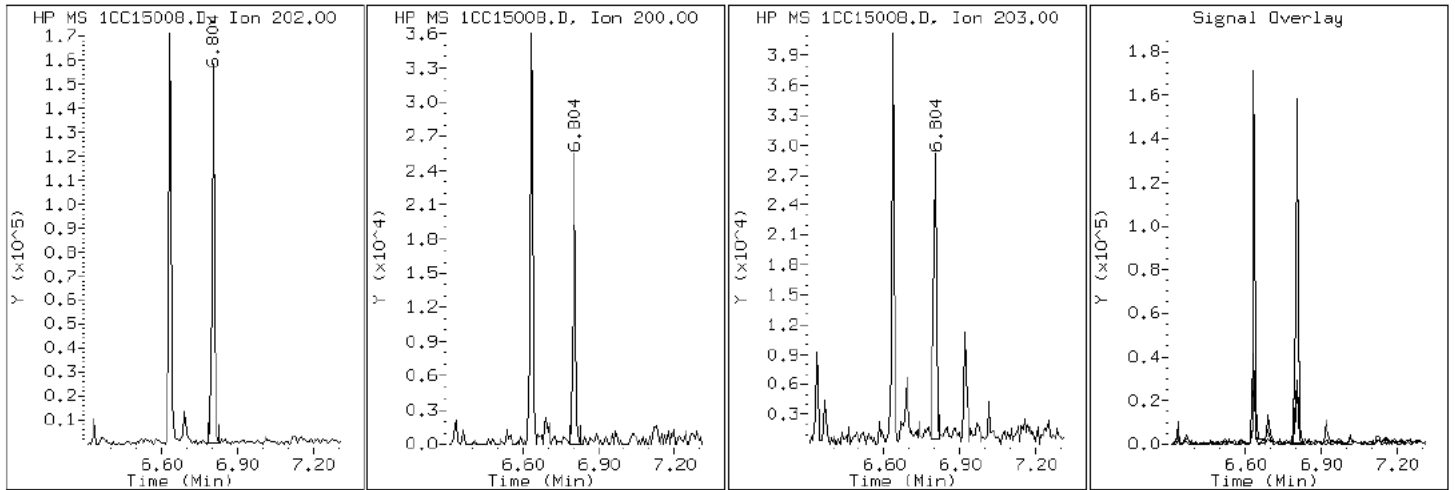
Client ID: FM0116B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-a

Operator: SCC

16 Pyrene

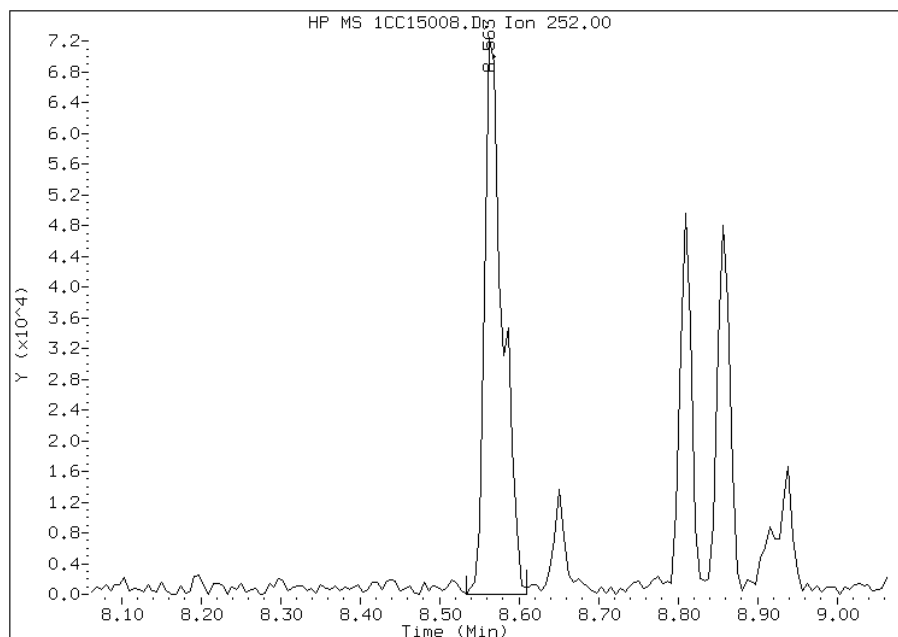


Manual Integration Report

Data File: 1CC15008.D
Inj. Date and Time: 15-MAR-2013 17:27
Instrument ID: BSMC5973.i
Client ID: FM0116B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

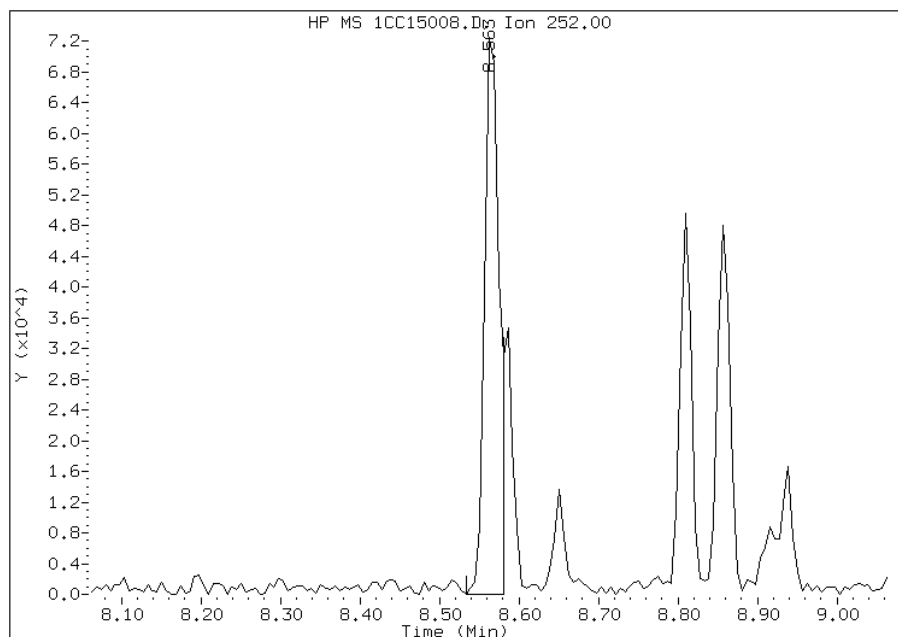
Processing Integration Results

RT: 8.56
Response: 115996
Amount: 2
Conc: 955



Manual Integration Results

RT: 8.56
Response: 93210
Amount: 2
Conc: 767



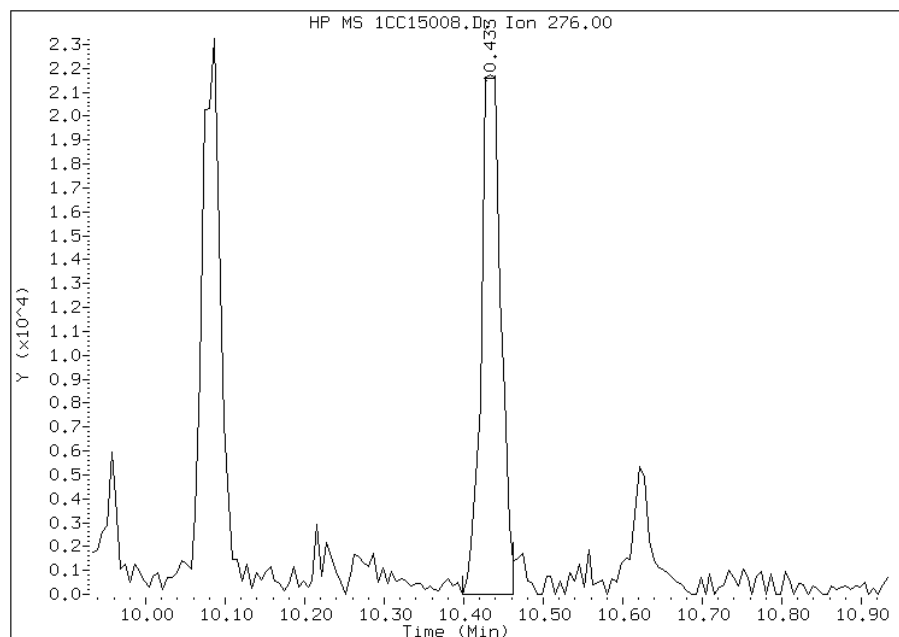
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15008.D
Inj. Date and Time: 15-MAR-2013 17:27
Instrument ID: BSMC5973.i
Client ID: FM0116B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

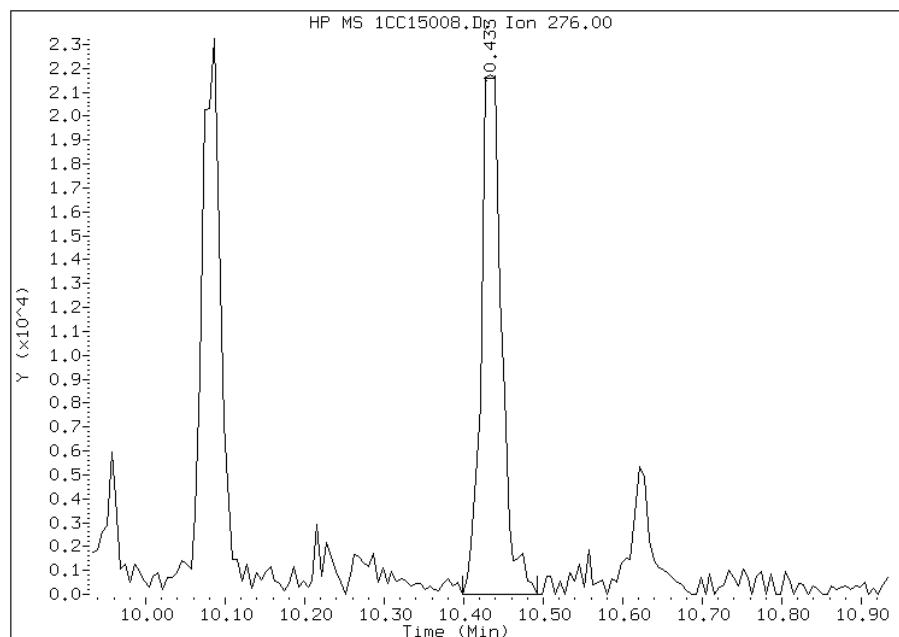
Processing Integration Results

RT: 10.43
Response: 37308
Amount: 1
Conc: 321



Manual Integration Results

RT: 10.43
Response: 38694
Amount: 1
Conc: 333



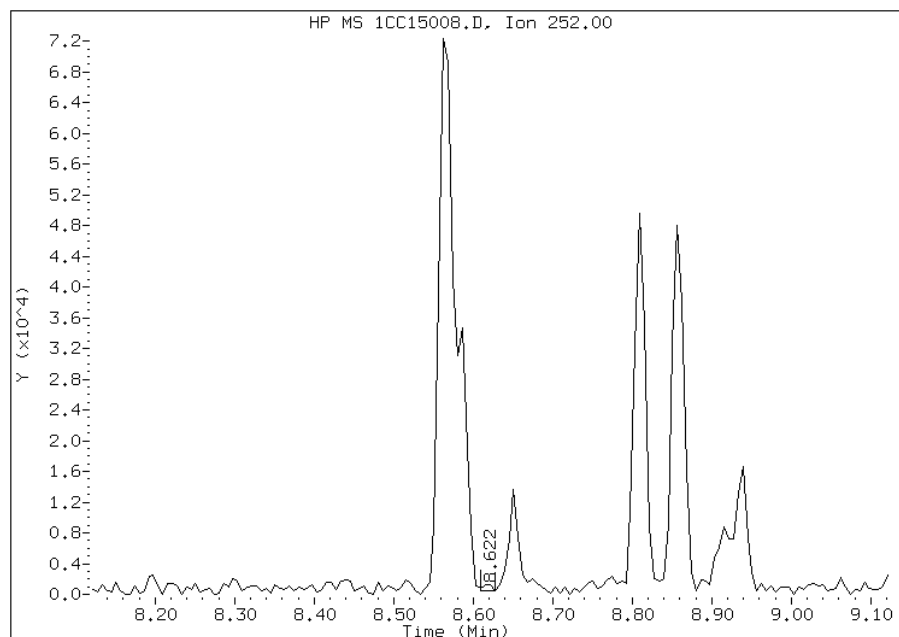
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15008.D
Inj. Date and Time: 15-MAR-2013 17:27
Instrument ID: BSMC5973.i
Client ID: FM0116B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

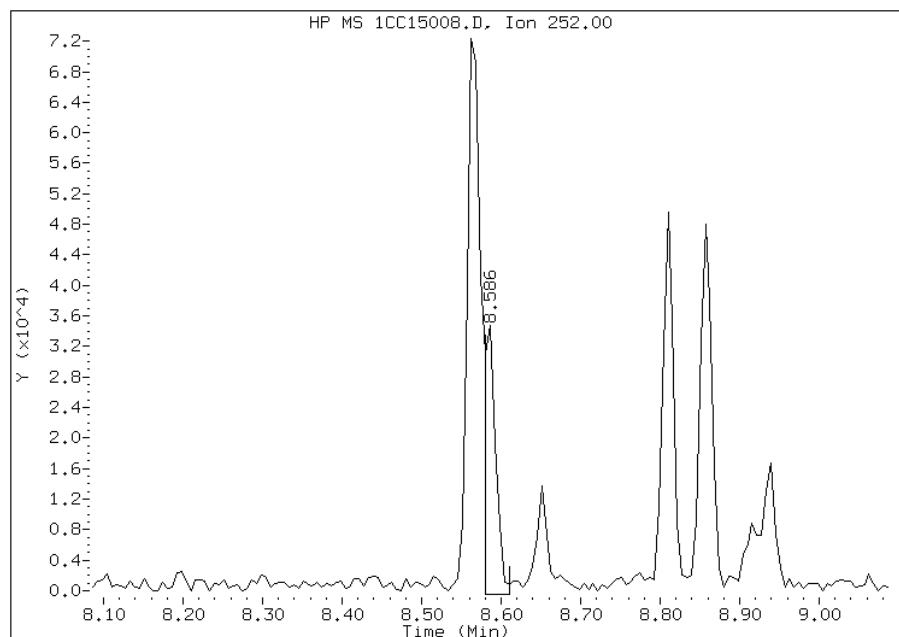
Processing Integration Results

RT: 8.62
Response: 769
Amount: 0
Conc: 6



Manual Integration Results

RT: 8.59
Response: 34789
Amount: 1
Conc: 279



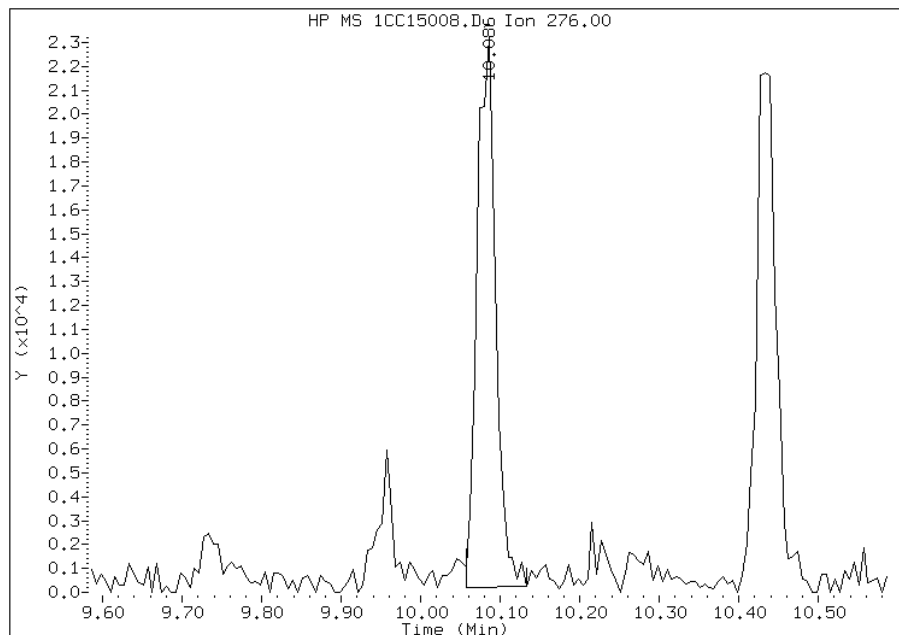
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15008.D
Inj. Date and Time: 15-MAR-2013 17:27
Instrument ID: BSMC5973.i
Client ID: FM0116B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

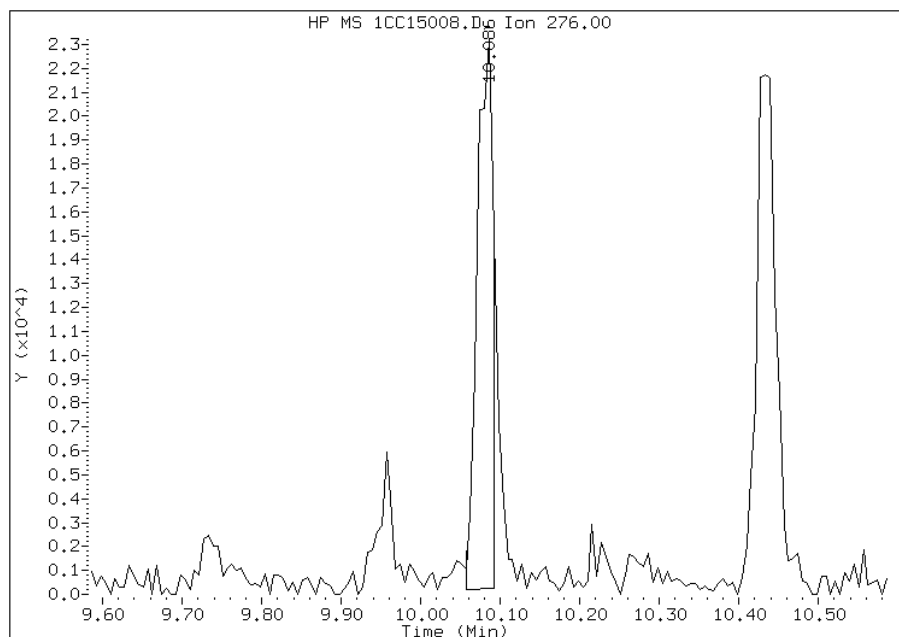
Processing Integration Results

RT: 10.09
Response: 37116
Amount: 1
Conc: 334



Manual Integration Results

RT: 10.09
Response: 32087
Amount: 1
Conc: 289



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: HP0113A-CS Lab Sample ID: 680-88118-22
 Matrix: Solid Lab File ID: 1CC15011.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:35
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.04(g) Date Analyzed: 03/15/2013 18:22
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	820		490	99
208-96-8	Acenaphthylene	53	J	200	25
120-12-7	Anthracene	1300		41	21
56-55-3	Benzo[a]anthracene	4800		39	19
50-32-8	Benzo[a]pyrene	4000		51	26
205-99-2	Benzo[b]fluoranthene	6100		60	30
191-24-2	Benzo[g,h,i]perylene	2600		99	22
207-08-9	Benzo[k]fluoranthene	2800		39	18
218-01-9	Chrysene	4100		44	22
53-70-3	Dibenz(a,h)anthracene	760		99	20
206-44-0	Fluoranthene	9600		99	20
86-73-7	Fluorene	600		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	2200		99	35
90-12-0	1-Methylnaphthalene	92	J	200	22
91-57-6	2-Methylnaphthalene	140	J	200	35
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	5600		39	19
129-00-0	Pyrene	7500		99	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15011.D
 Lab Smp Id: 680-88118-A-22-A Client Smp ID: HP0113A-CS
 Inj Date : 15-MAR-2013 18:22
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-22-a
 Misc Info : 680-88118-A-22-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 11
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	18.998	% 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		3.751	3.751	(1.000)	1251015	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	978747	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1737915	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	49843	1.89954	623.6826
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	2038879	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1970653	40.0000	
2 Naphthalene	128		3.763	3.763	(1.003)	13365	0.41036	134.7364(Q)
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	9030	0.41566	136.4738
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	5523	0.27914	91.6500
5 Acenaphthylene	152		4.745	4.751	(0.982)	6410	0.16244	53.3355
7 Acenaphthene	154		4.857	4.857	(1.005)	61358	2.50169	821.3905
9 Fluorene	166		5.174	5.174	(1.071)	56390	1.81796	596.8969
11 Phenanthrene	178		5.798	5.804	(1.002)	850197	16.9184	5554.8843
12 Anthracene	178		5.833	5.839	(1.008)	196225	3.99262	1310.9125

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.945	(1.026)	136212	3.11782	1023.6867
15 Fluoranthene	202	6.639	6.639	(1.147)	1609443	29.2451	9602.1615
16 Pyrene	202	6.804	6.810	(0.880)	1254511	22.8959	7517.5045
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	857065	14.5645	4782.0357
19 Chrysene	228	7.745	7.751	(1.002)	738314	12.5371	4116.3669
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	949875	18.4440	6055.7932(M)
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	445569	8.43377	2769.0952(QM)
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	615990	12.3139	4043.0816
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	316427	6.72415	2207.7682(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.127	(1.133)	106197	2.30715	757.5144
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	392130	7.96577	2615.4319

QC Flag Legend

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

Data File: 1CC15011.D

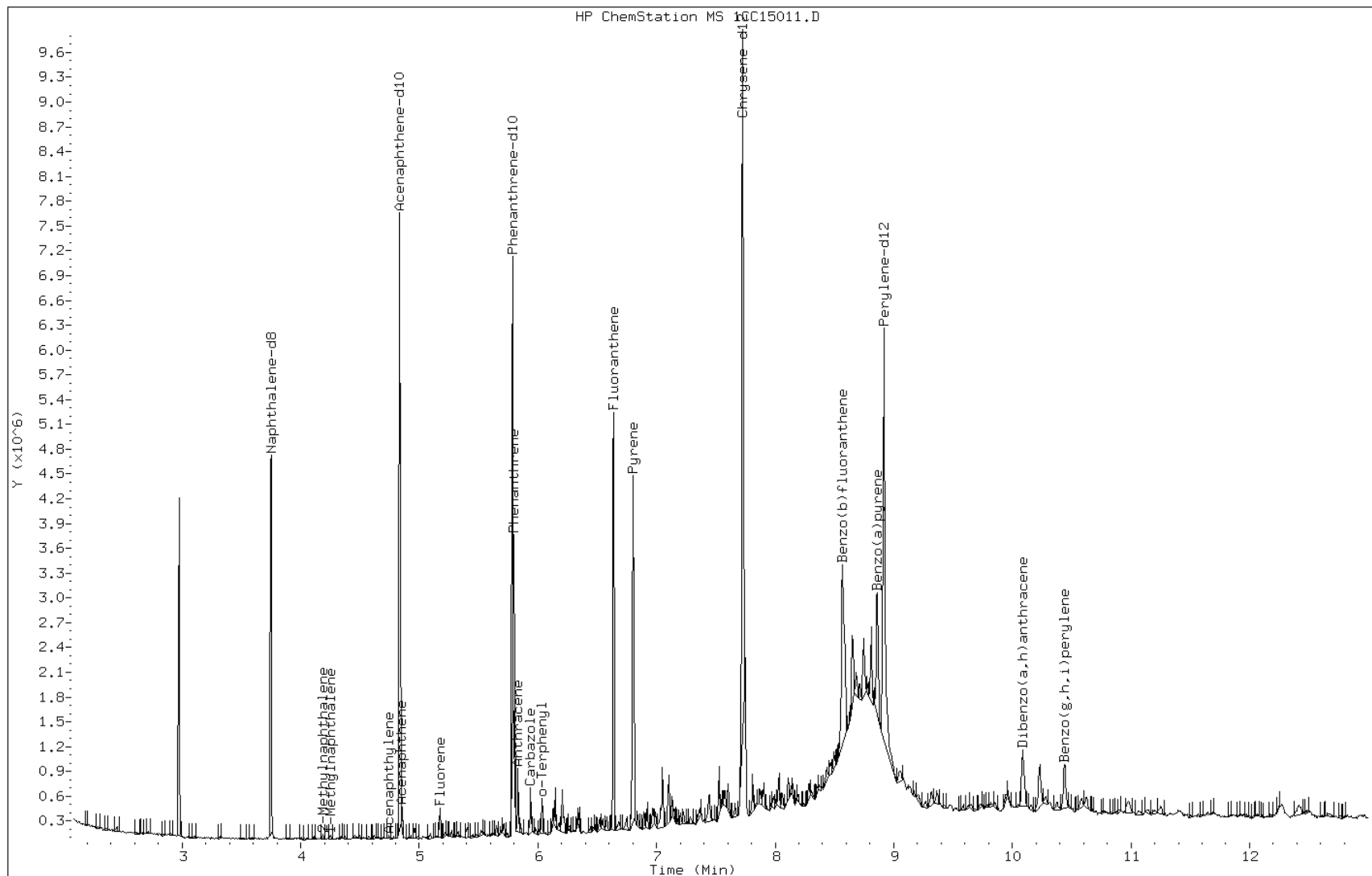
Date: 15-MAR-2013 18:22

Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

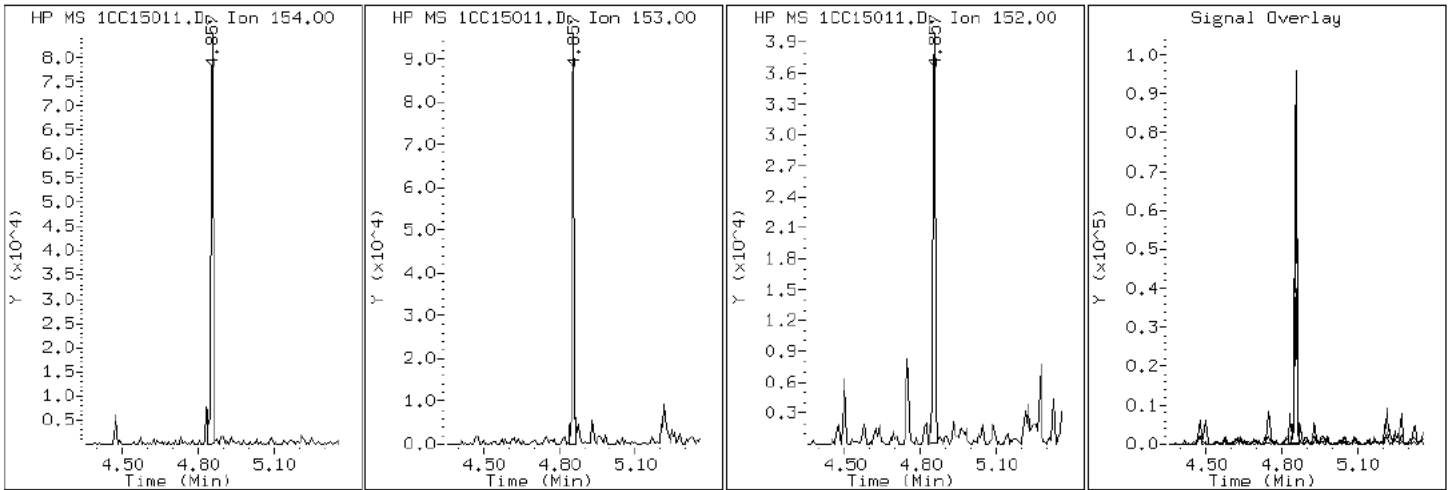
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

7 Acenaphthene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

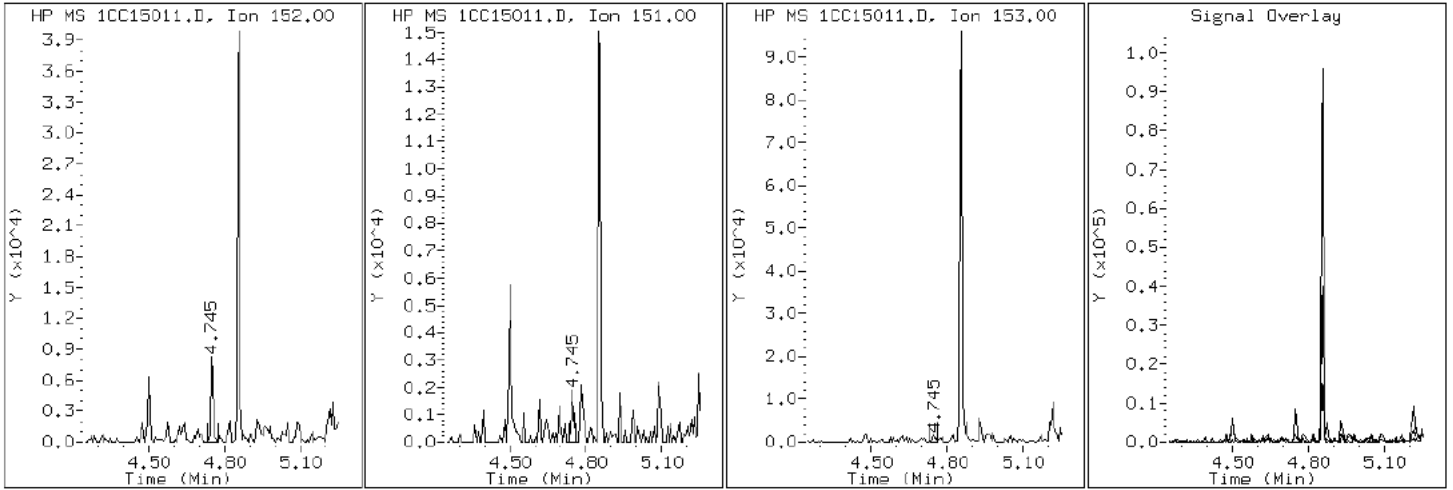
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

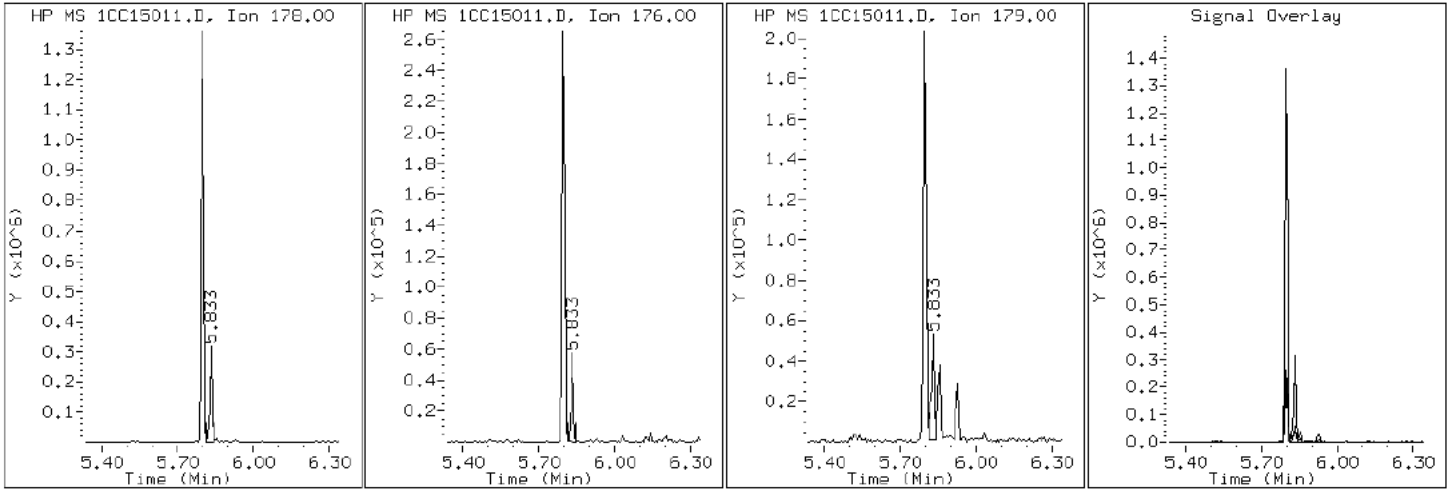
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

12 Anthracene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

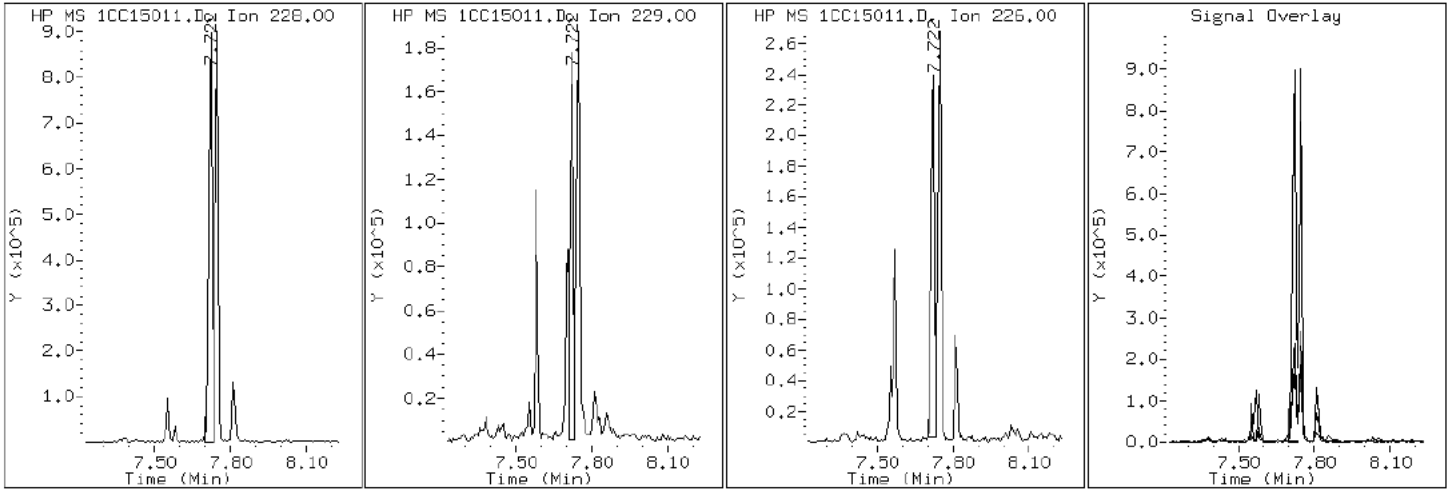
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

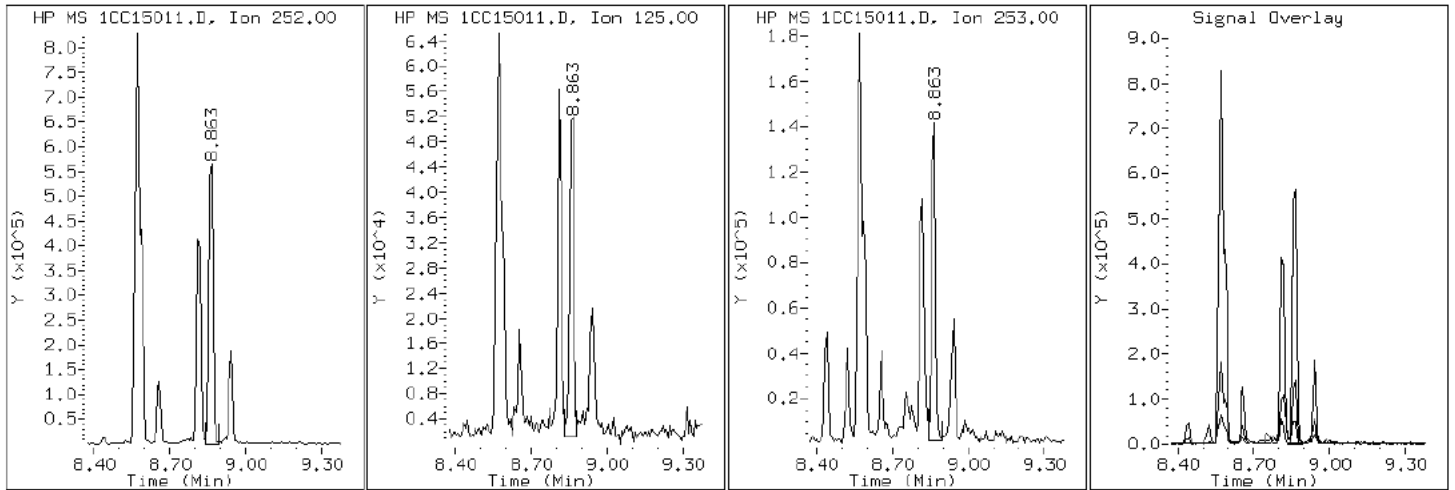
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

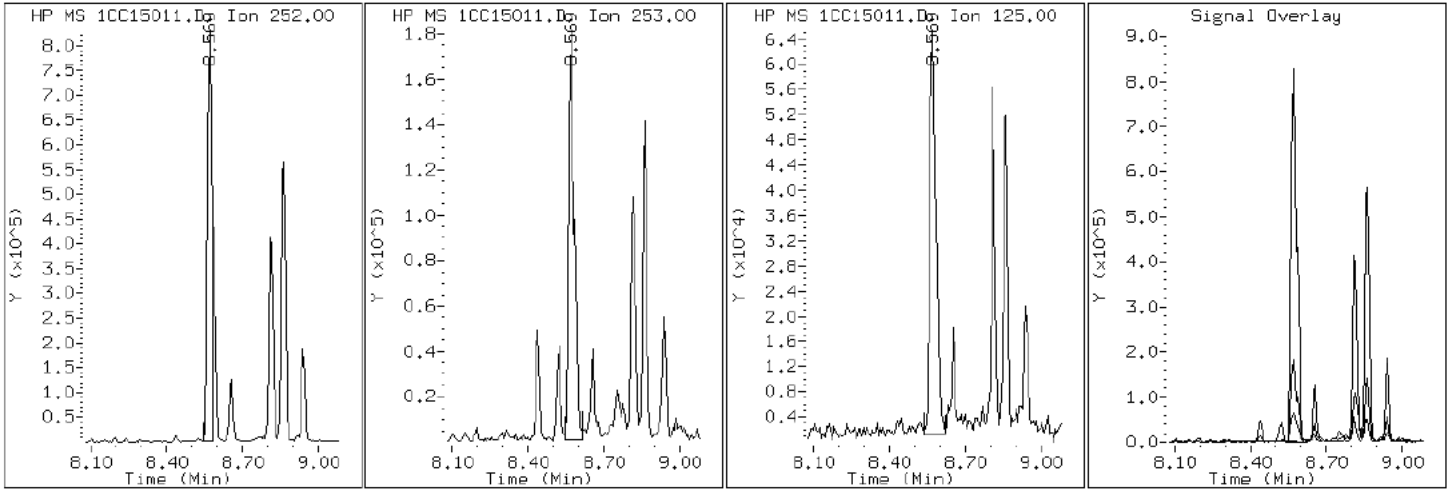
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

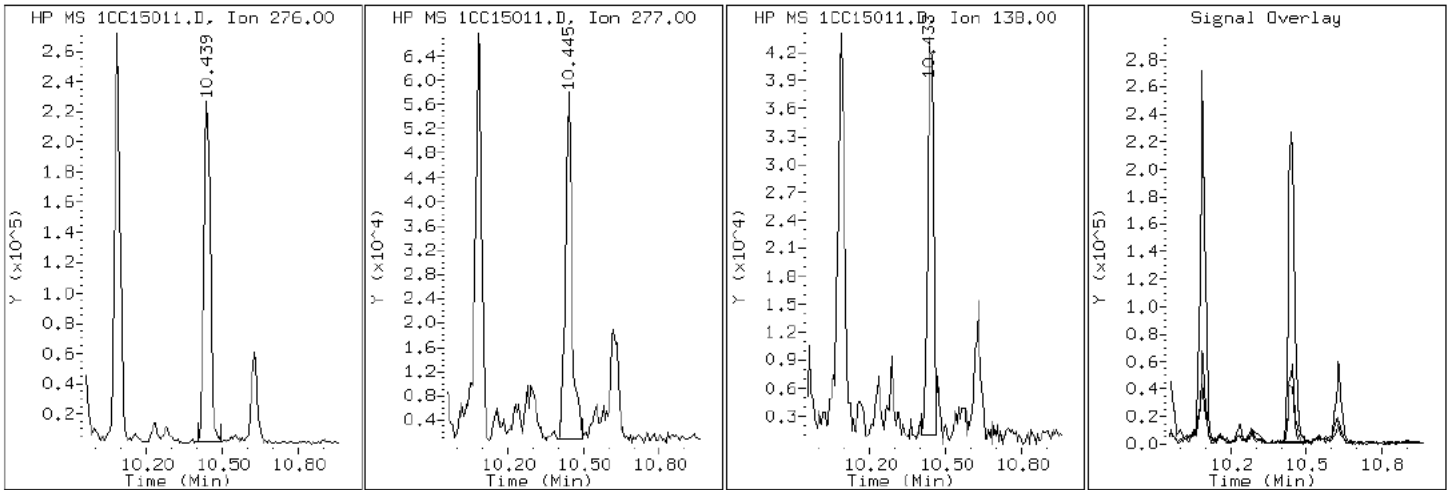
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

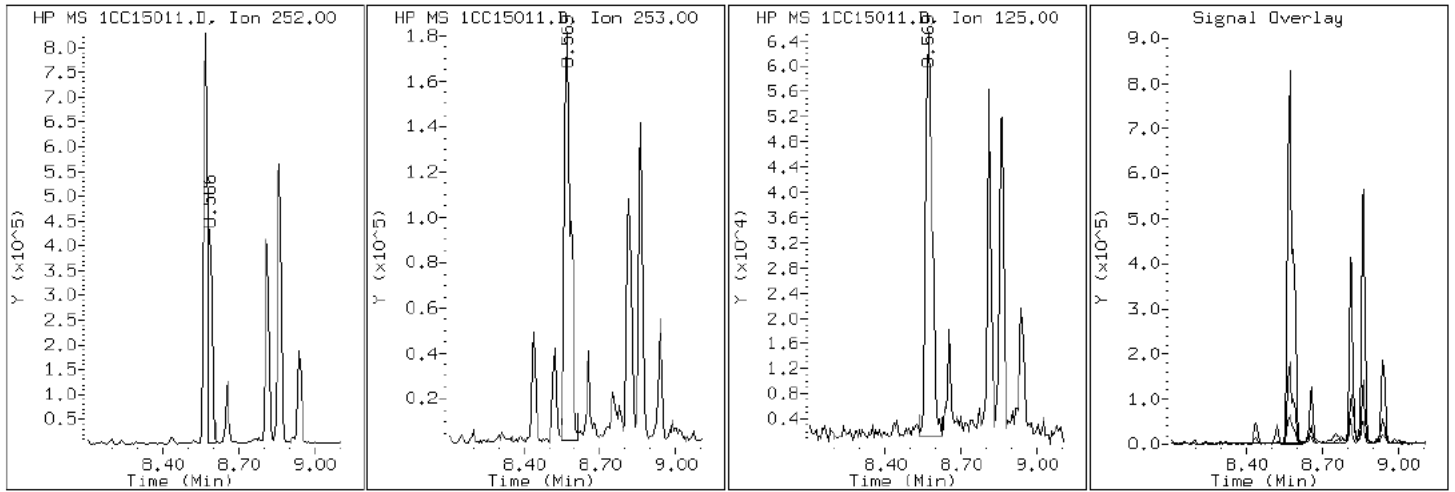
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

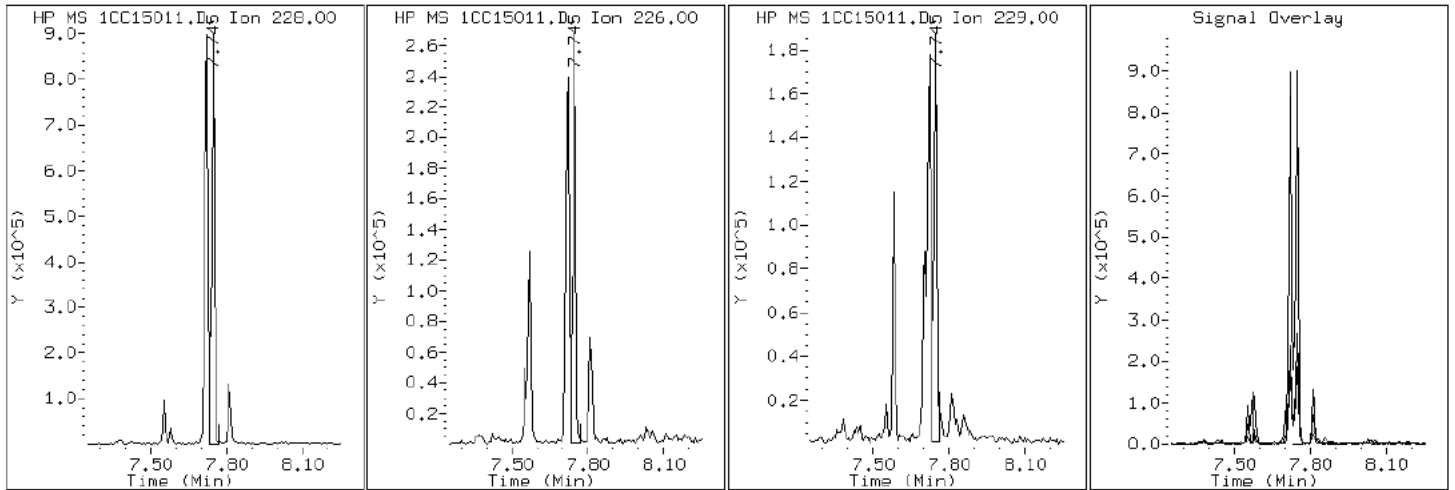
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

19 Chrysene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

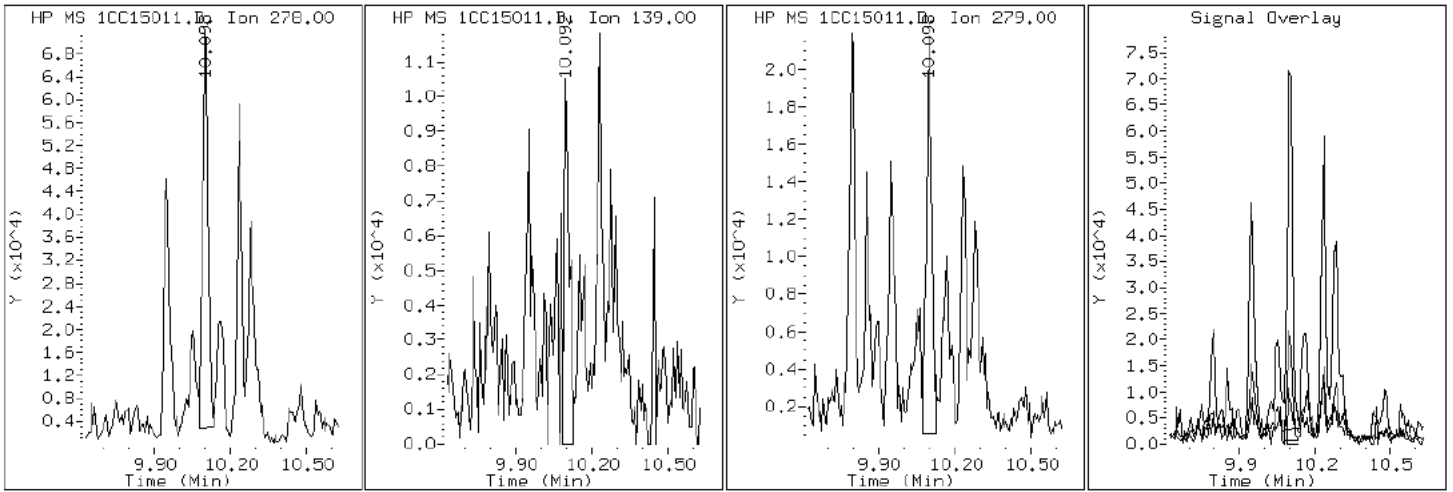
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

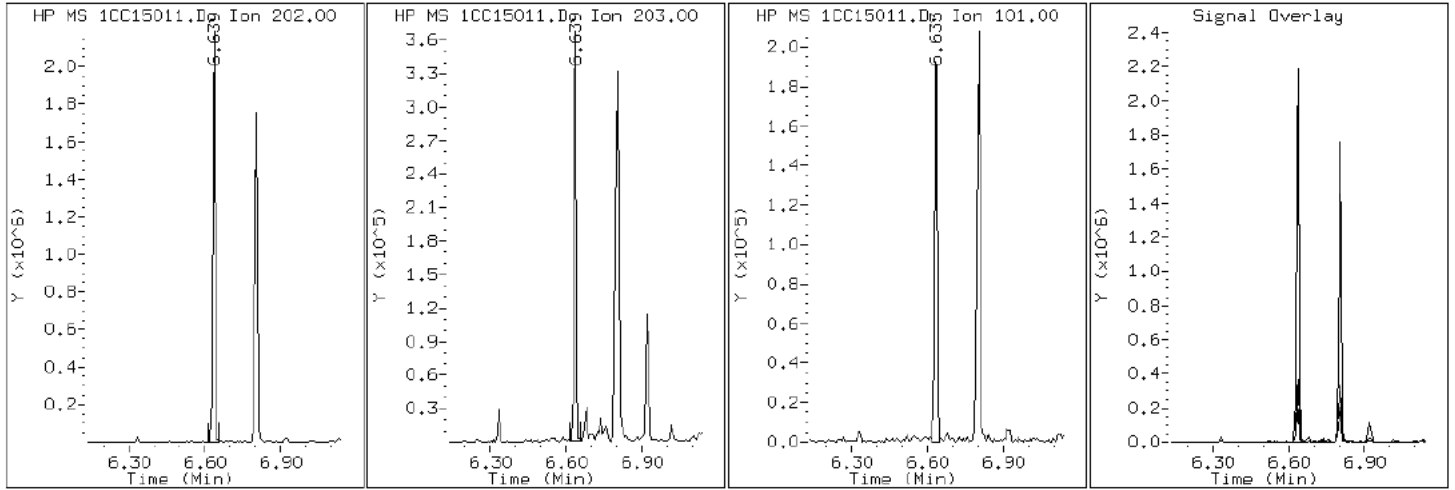
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

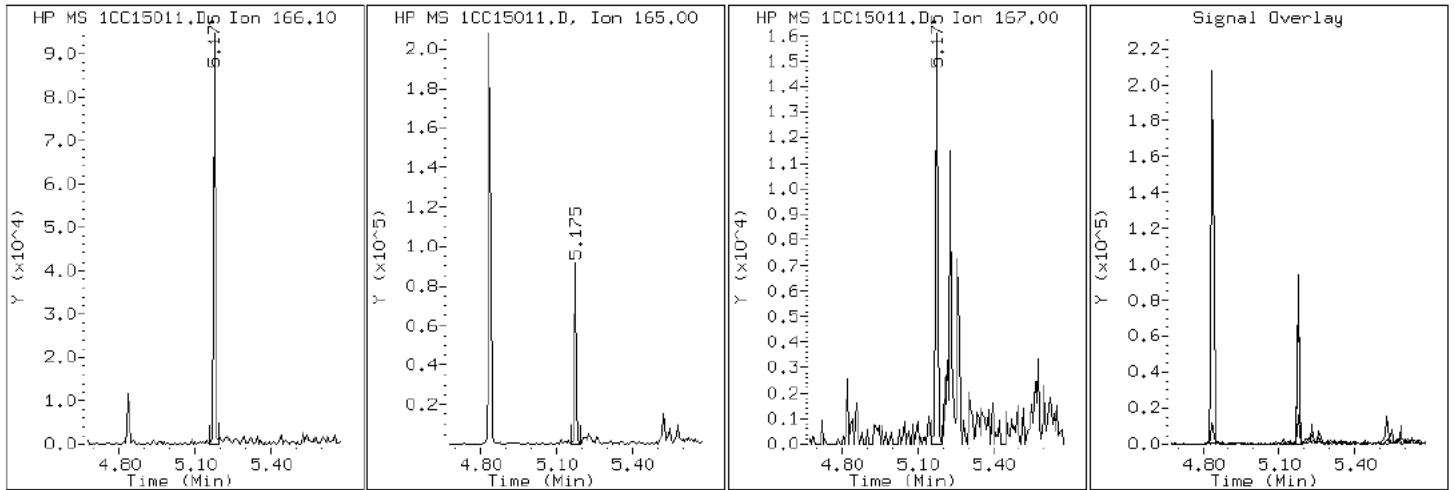
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

9 Fluorene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

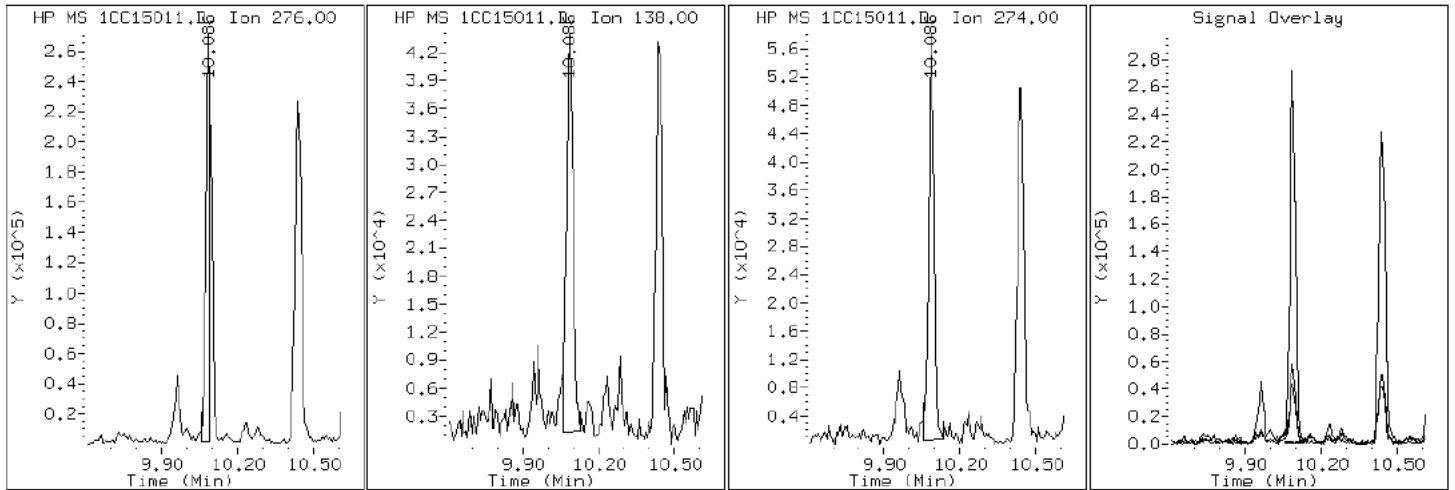
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

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



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

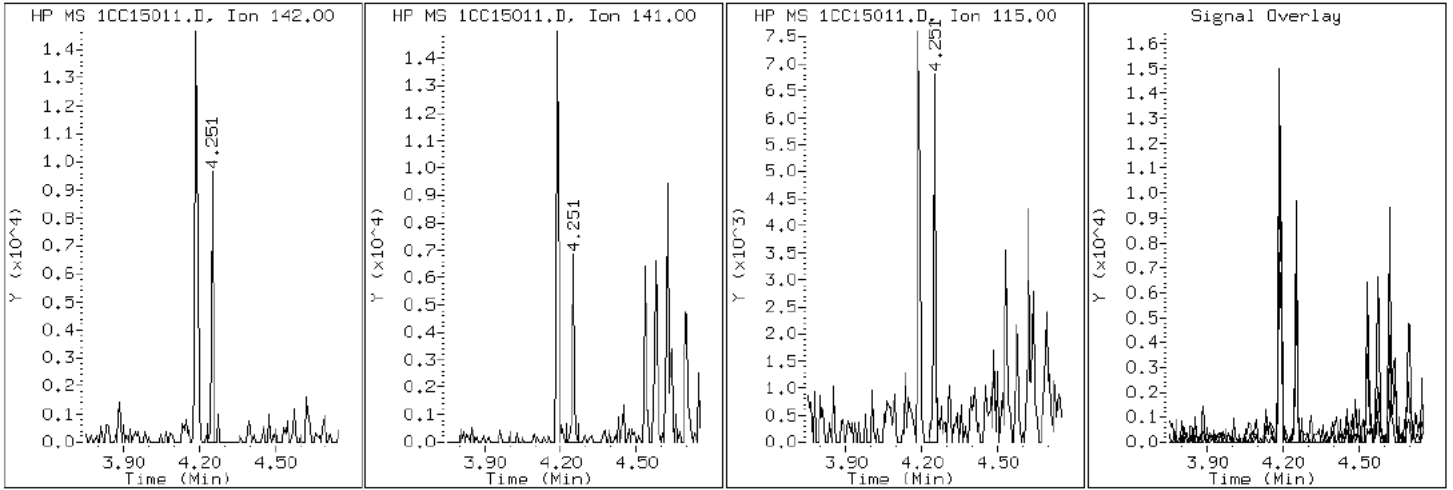
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

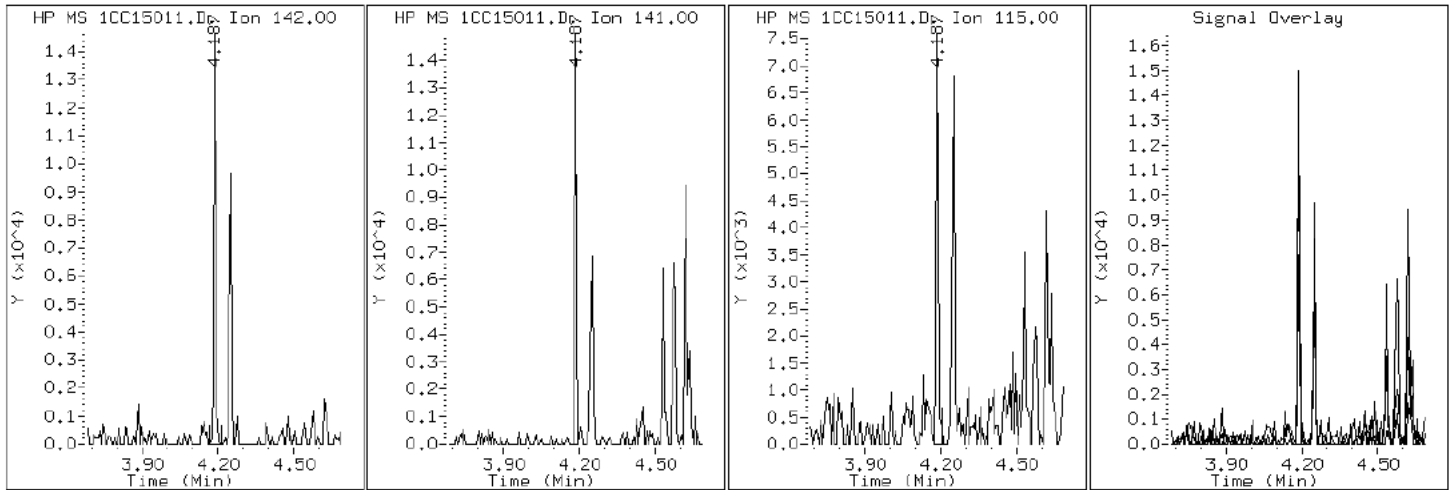
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

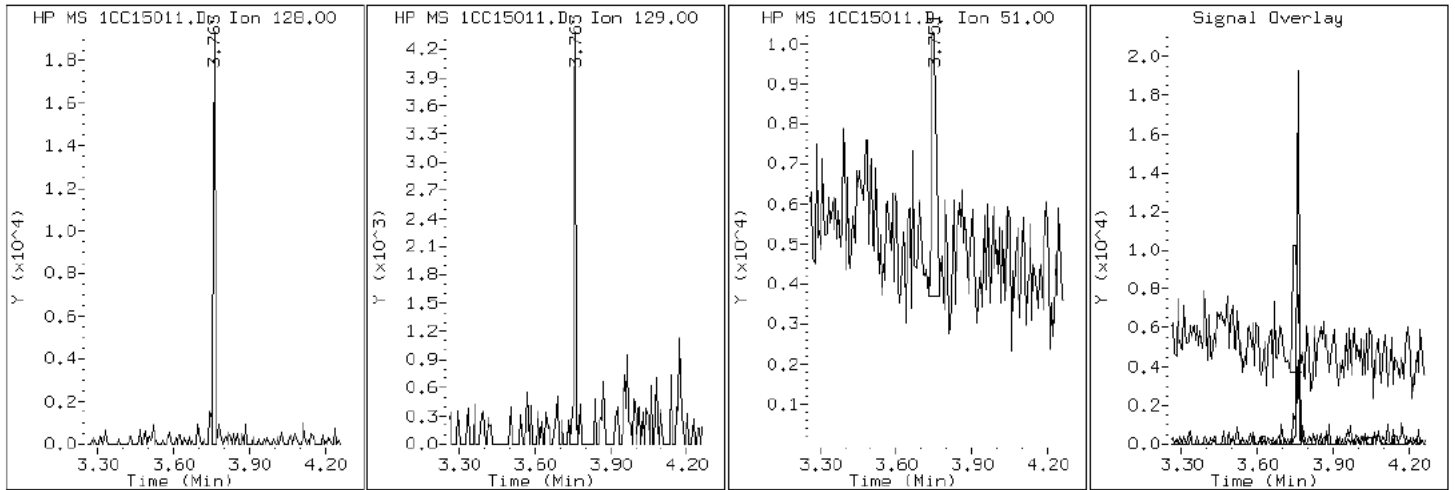
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

2 Naphthalene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

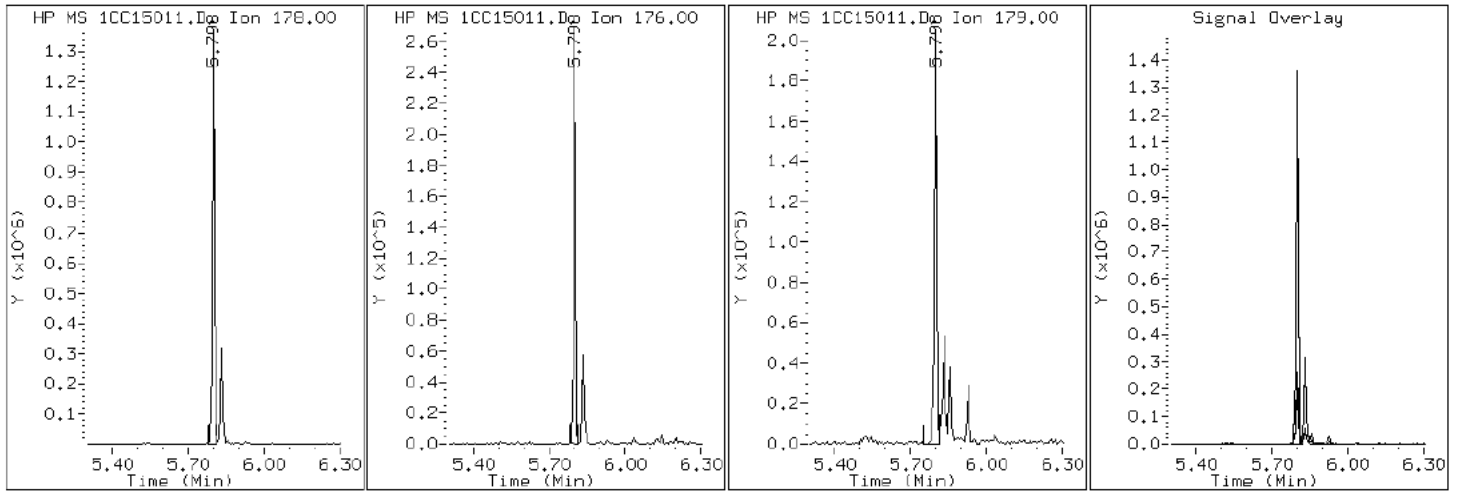
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15011.D

Date: 15-MAR-2013 18:22

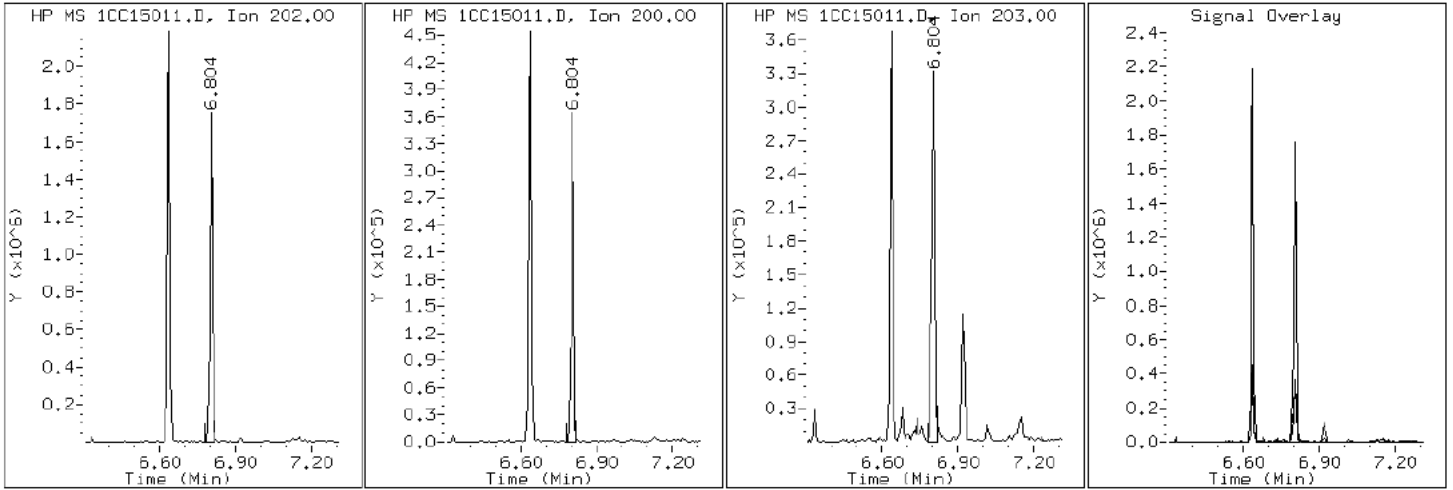
Client ID: HP0113A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-22-a

Operator: SCC

16 Pyrene

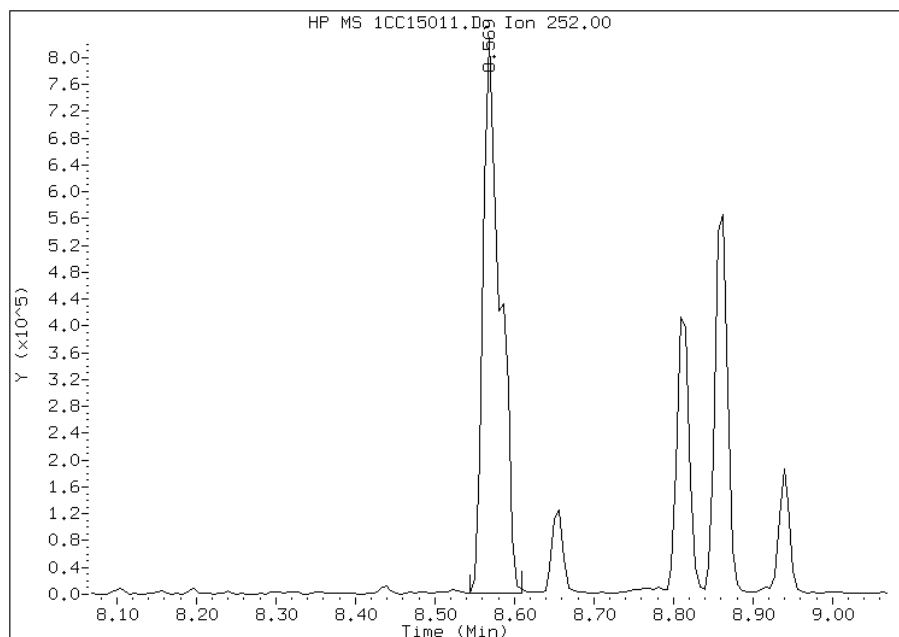


Manual Integration Report

Data File: 1CC15011.D
Inj. Date and Time: 15-MAR-2013 18:22
Instrument ID: BSMC5973.i
Client ID: HP0113A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

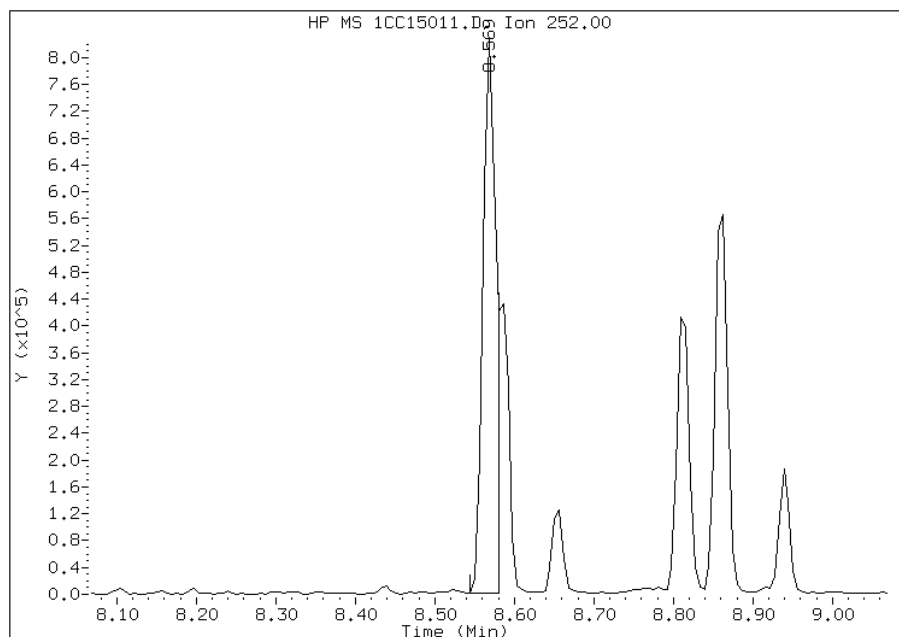
Processing Integration Results

RT: 8.57
Response: 1246646
Amount: 24
Conc: 7948



Manual Integration Results

RT: 8.57
Response: 949875
Amount: 18
Conc: 6056



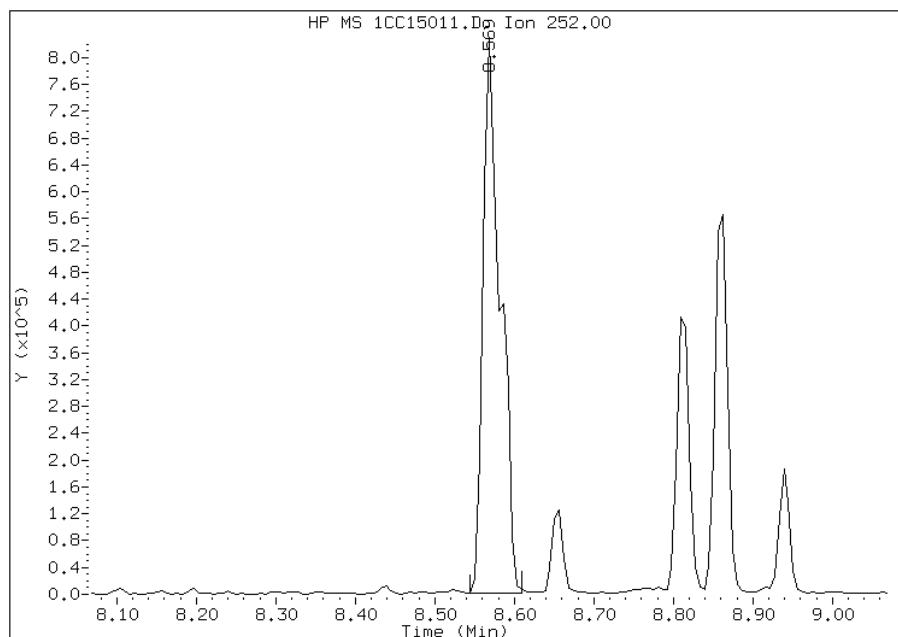
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15011.D
Inj. Date and Time: 15-MAR-2013 18:22
Instrument ID: BSMC5973.i
Client ID: HP0113A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

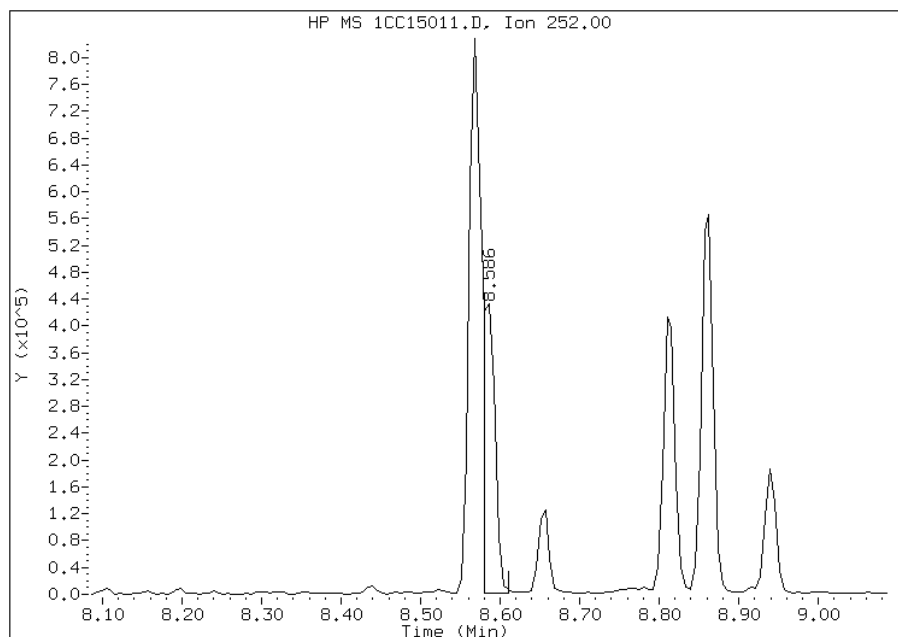
Processing Integration Results

RT: 8.57
Response: 1246646
Amount: 24
Conc: 7748



Manual Integration Results

RT: 8.59
Response: 445569
Amount: 8
Conc: 2769



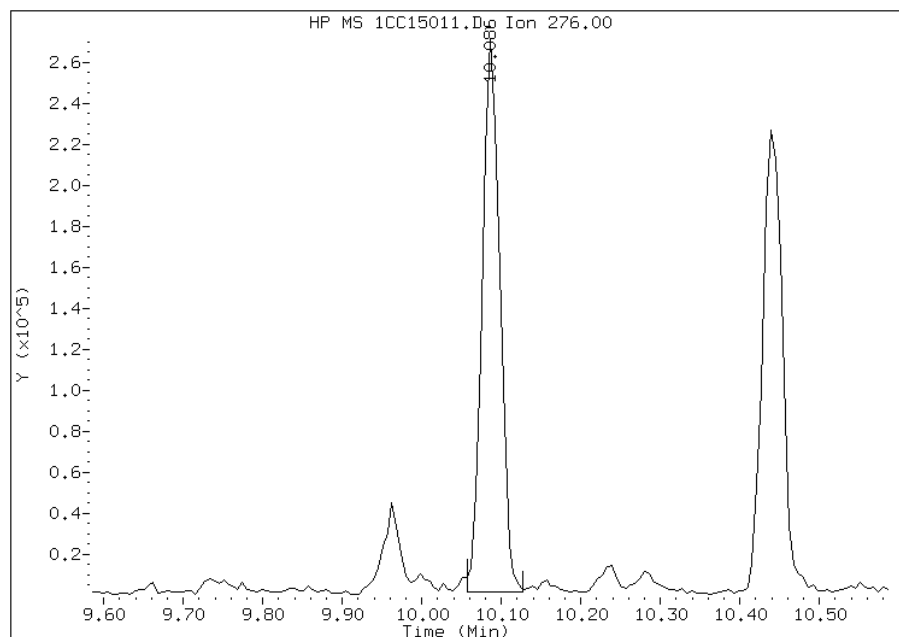
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15011.D
Inj. Date and Time: 15-MAR-2013 18:22
Instrument ID: BSMC5973.i
Client ID: HP0113A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

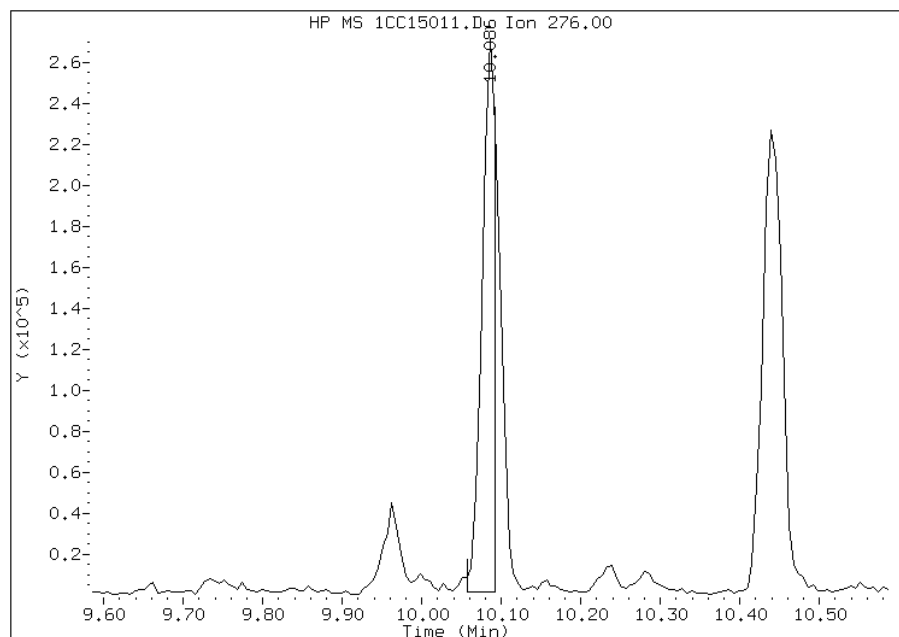
Processing Integration Results

RT: 10.09
Response: 414481
Amount: 9
Conc: 2892



Manual Integration Results

RT: 10.09
Response: 316427
Amount: 7
Conc: 2208



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: HP0113A-CSD Lab Sample ID: 680-88118-23
 Matrix: Solid Lab File ID: 1CC15012.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:35
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.03(g) Date Analyzed: 03/15/2013 18:40
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9500		480	97
208-96-8	Acenaphthylene	200		190	24
120-12-7	Anthracene	15000		41	20
53-70-3	Dibenz (a,h) anthracene	5700		97	20
86-73-7	Fluorene	8300		97	20
90-12-0	1-Methylnaphthalene	1100		190	21
91-57-6	2-Methylnaphthalene	1700		190	34
91-20-3	Naphthalene	3300		190	21

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15012.D
 Lab Smp Id: 680-88118-A-23-A Client Smp ID: HP0113A-CSD
 Inj Date : 15-MAR-2013 18:40
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-23-a
 Misc Info : 680-88118-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 12
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	17.373	% 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		3.745	3.751	(1.000)	1141677	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	878542	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1543835	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	50882	2.18291	703.0945	
* 18 Chrysene-d12	240		7.733	7.733	(1.000)	2036139	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	1790032	40.0000		
2 Naphthalene	128		3.763	3.763	(1.005)	307316	10.3396	3330.2978	
3 2-Methylnaphthalene	142		4.186	4.186	(1.118)	103687	5.22985	1684.4877	
4 1-Methylnaphthalene	142		4.251	4.251	(1.135)	59358	3.28731	1058.8111	
5 Acenaphthylene	152		4.745	4.751	(0.982)	21561	0.60872	196.0641	
7 Acenaphthene	154		4.857	4.857	(1.005)	646206	29.3523	9454.0935	
9 Fluorene	166		5.174	5.174	(1.071)	721411	25.9103	8345.4622	
11 Phenanthrene	178		5.804	5.804	(1.003)	7311330	163.781	52752.3677(A)	
12 Anthracene	178		5.833	5.839	(1.008)	2036521	46.6466	15024.4429	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.945	(1.026)	1428651	36.8120	11856.8131
15 Fluoranthene	202	6.639	6.639	(1.147)	9925355	203.026	65392.7456(A)
16 Pyrene	202	6.809	6.810	(0.881)	8296494	151.622	48836.0270(A)
17 Benzo(a)anthracene	228	7.727	7.727	(0.999)	6952949	118.314	38107.8633(A)
19 Chrysene	228	7.756	7.751	(1.003)	5808708	98.7690	31812.5890(A)
20 Benzo(b)fluoranthene	252	8.580	8.580	(0.962)	7216755	154.269	49688.7846(AM)
21 Benzo(k)fluoranthene	252	8.598	8.604	(0.964)	3094207	64.4771	20767.4953(AQM)
22 Benzo(a)pyrene	252	8.874	8.874	(0.995)	4450417	97.9429	31546.5148(A)
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.109	(1.133)	2485191	58.1397	18726.2817(AM)
25 Dibenzo(a,h)anthracene	278	10.115	10.127	(1.134)	734804	17.5745	5660.5938
26 Benzo(g,h,i)perylene	276	10.468	10.462	(1.173)	2490189	55.6902	17937.3175(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: 1CC15012.D

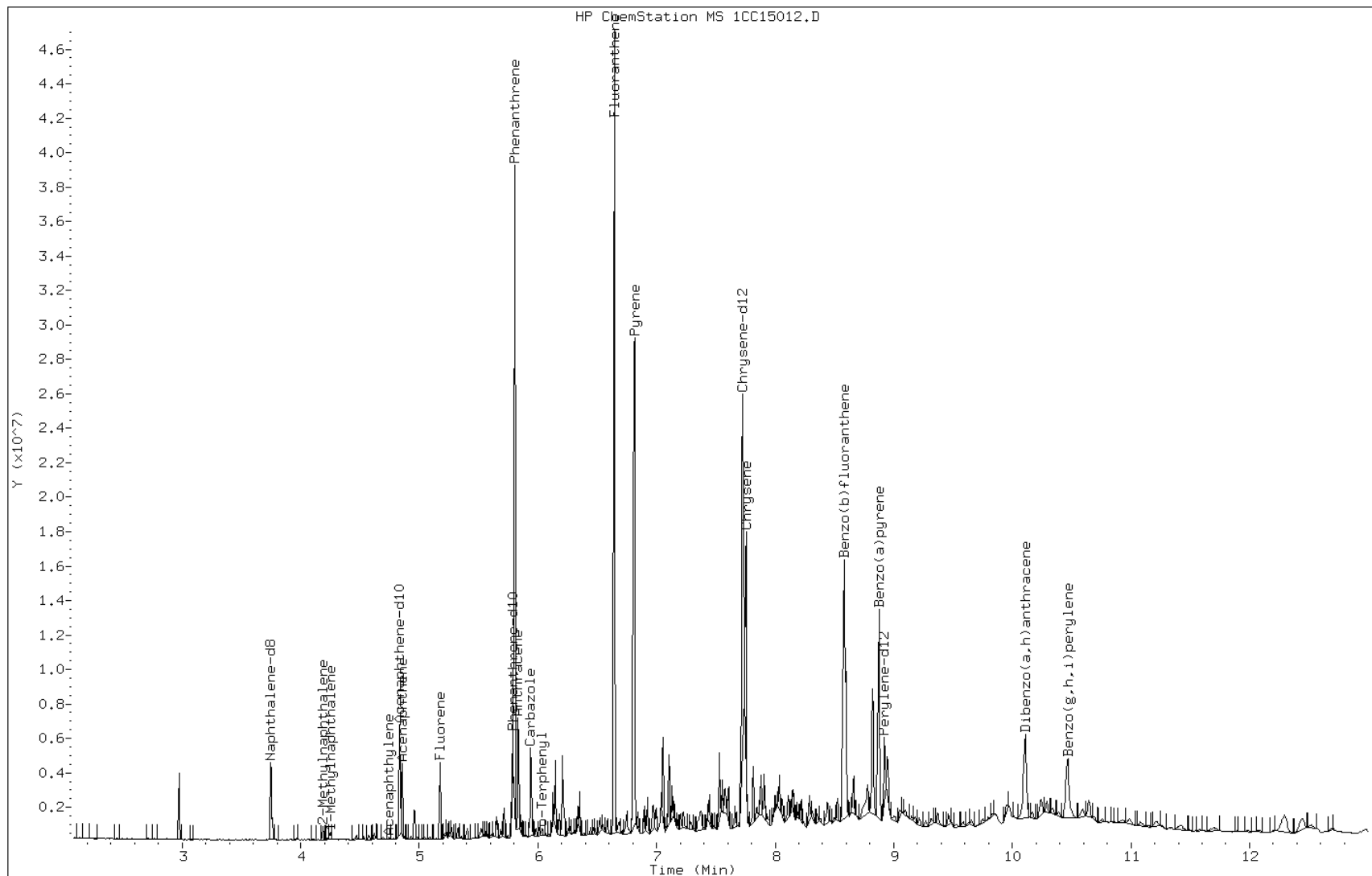
Date: 15-MAR-2013 18:40

Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

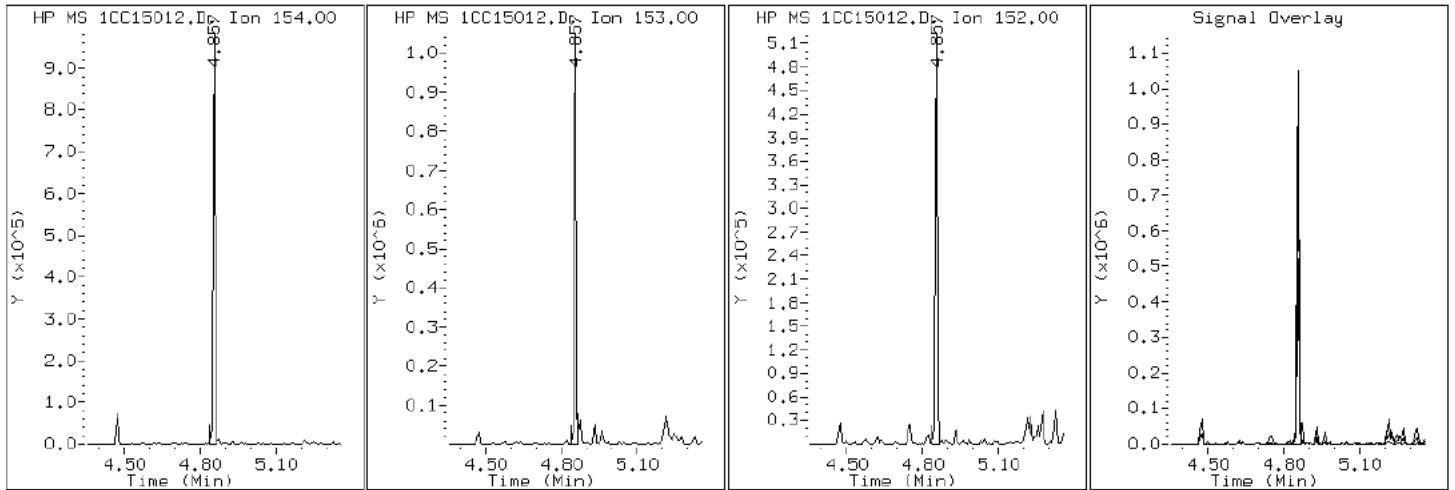
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

7 Acenaphthene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

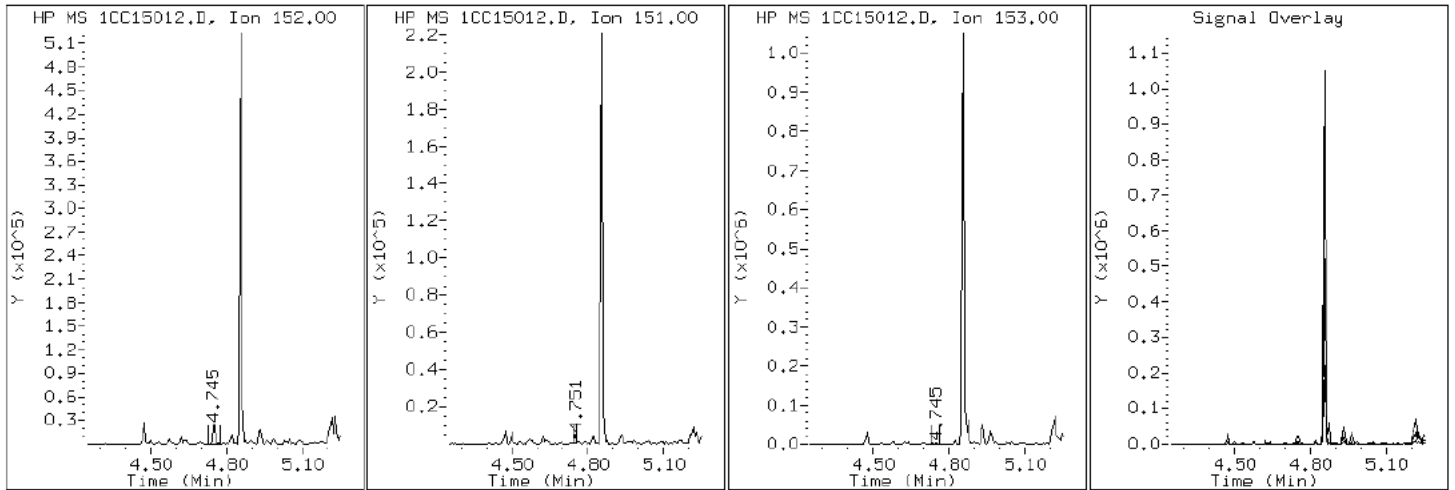
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

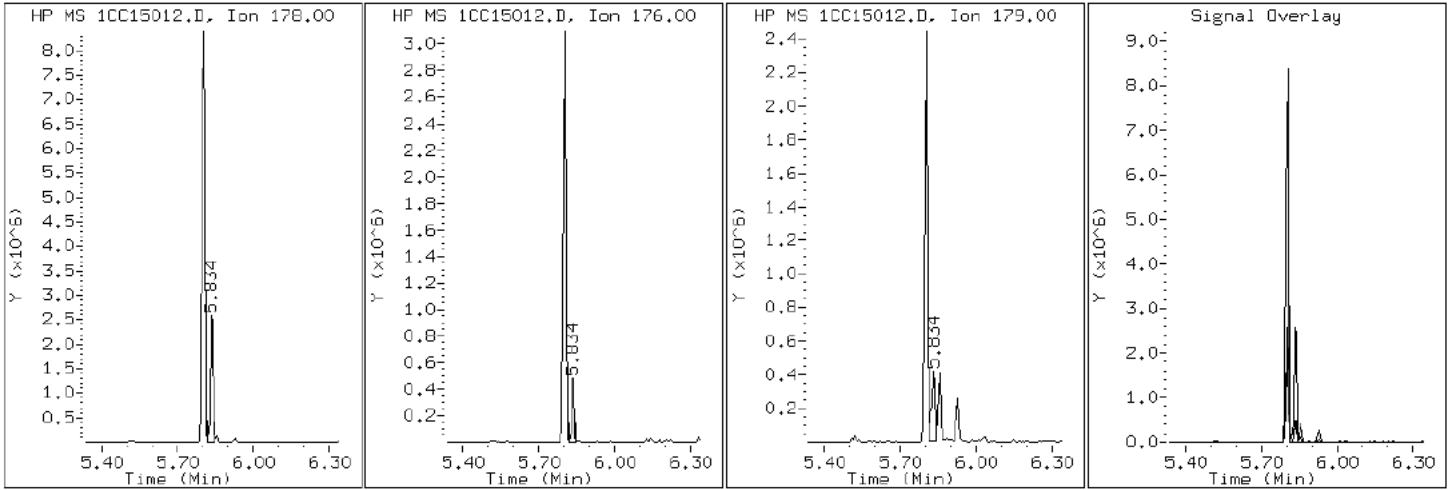
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

12 Anthracene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

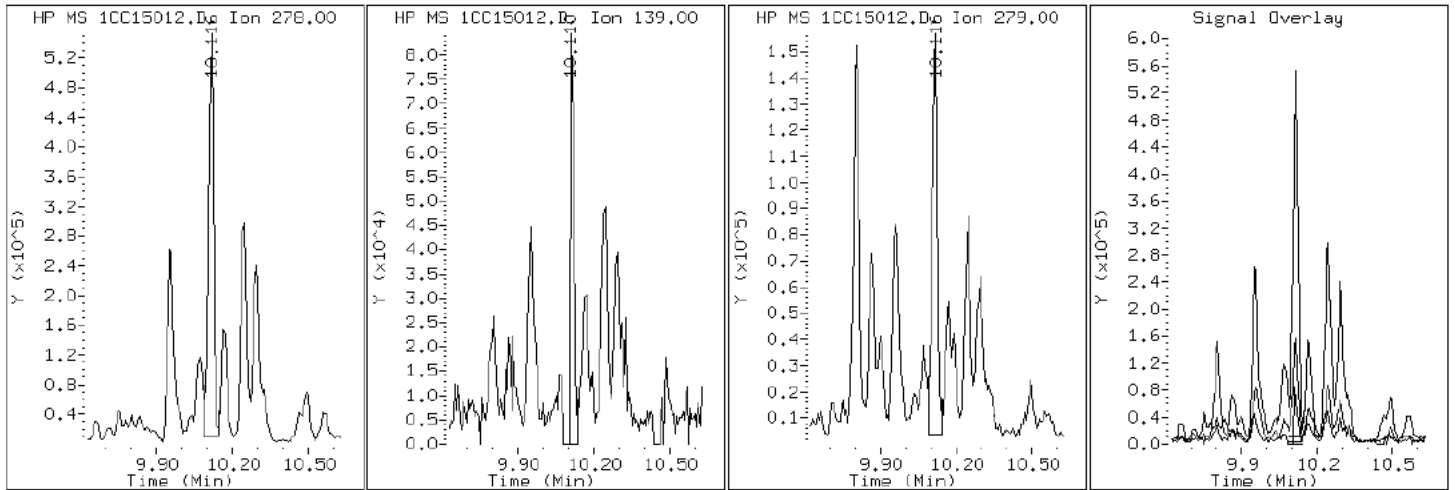
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

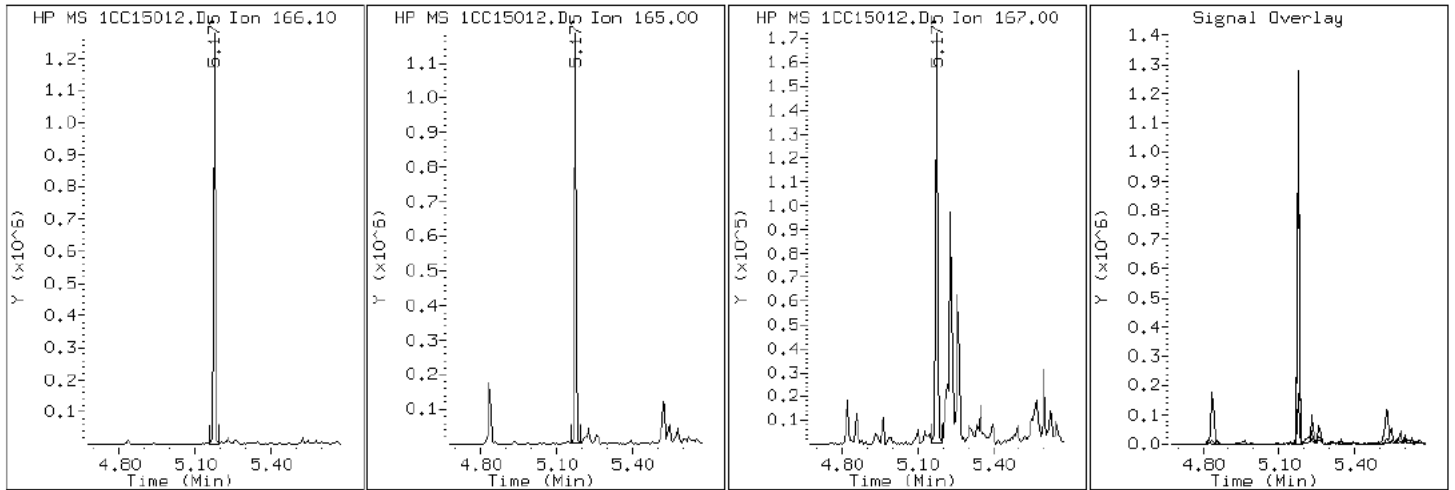
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

9 Fluorene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

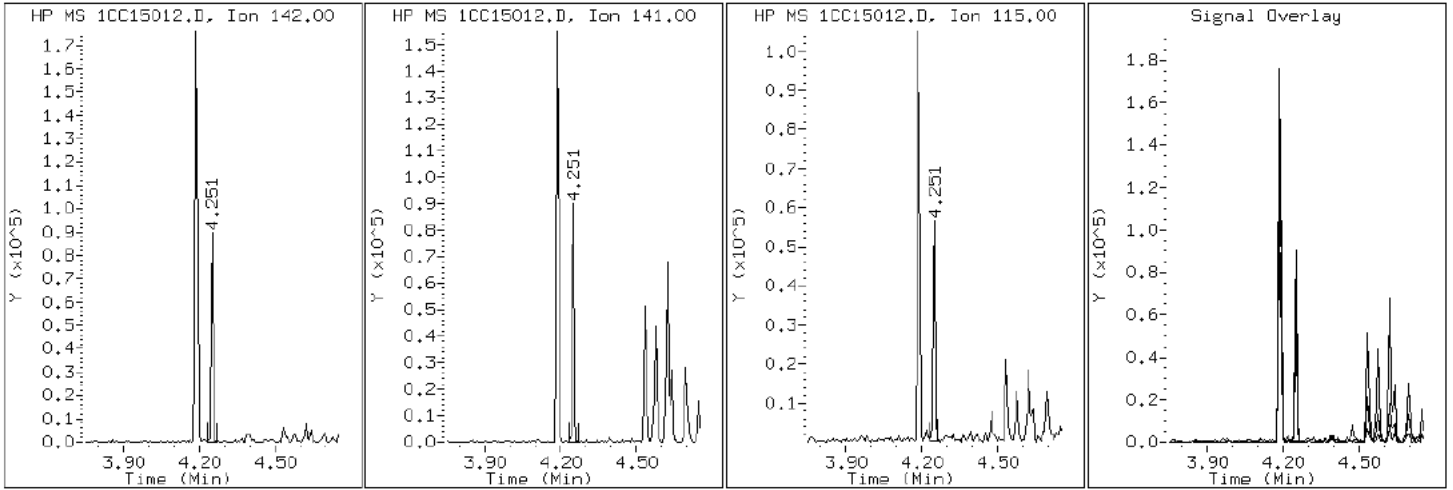
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

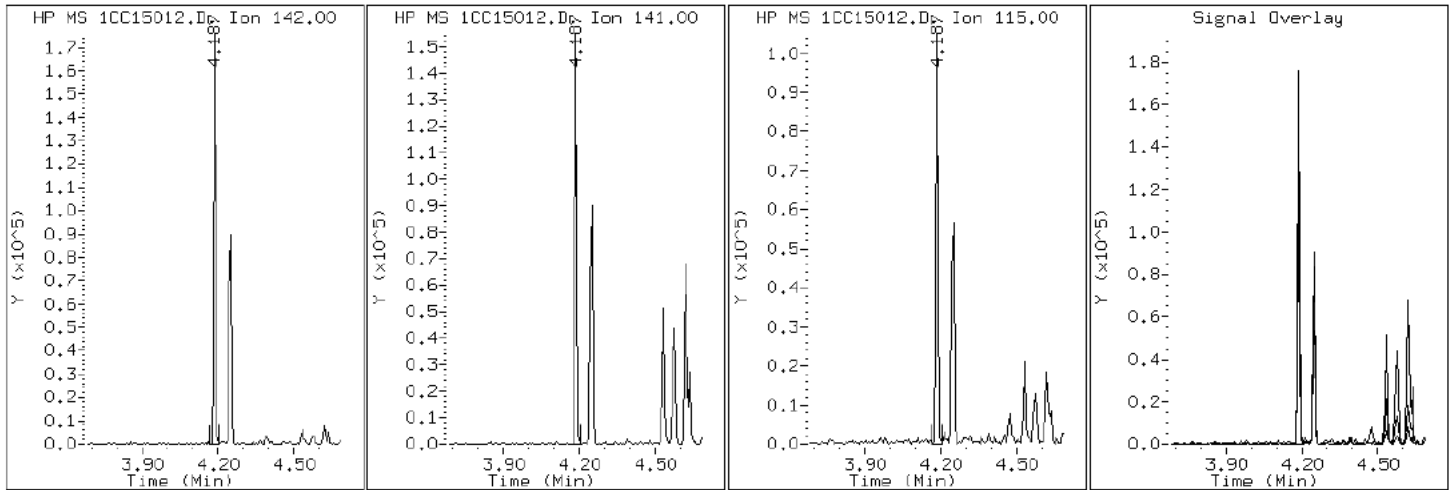
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15012.D

Date: 15-MAR-2013 18:40

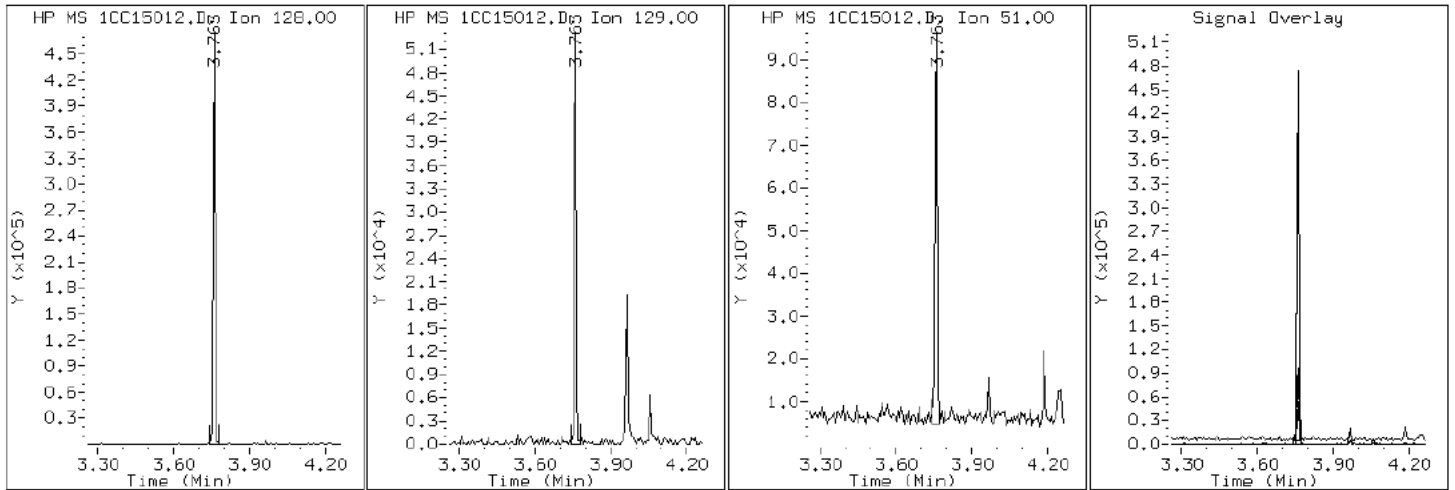
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-23-a

Operator: SCC

2 Naphthalene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: HP0113A-CSD DL Lab Sample ID: 680-88118-23 DL
 Matrix: Solid Lab File ID: 1CC19010.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 08:35
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.03(g) Date Analyzed: 03/19/2013 14:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 20
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135536 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-55-3	Benzo[a]anthracene	29000		190	94
50-32-8	Benzo[a]pyrene	24000		250	130
205-99-2	Benzo[b]fluoranthene	35000		290	150
191-24-2	Benzo[g,h,i]perylene	15000		480	110
207-08-9	Benzo[k]fluoranthene	16000		190	87
218-01-9	Chrysene	26000		220	110
206-44-0	Fluoranthene	66000		480	97
193-39-5	Indeno[1,2,3-cd]pyrene	14000		480	170
85-01-8	Phenanthrene	47000		190	94
129-00-0	Pyrene	50000		480	89

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19010.D
 Lab Smp Id: 680-88118-A-23-A Client Smp ID: HP0113A-CSD
 Inj Date : 19-MAR-2013 14:47
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-A-23-A
 Misc Info : 680-88118-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\a-bFASTPAHi-m.m
 Meth Date : 19-Mar-2013 11:39 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10
 Dil Factor: 20.00000
 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	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	17.373	% 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		3.745	3.745	(1.000)	1111852	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.827	(1.000)	867796	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.780	(1.000)	1605569	40.0000	
\$ 14 o-Terphenyl	230		6.039	6.033	(1.044)	8921	0.36801	592.6592
* 18 Chrysene-d12	240		7.733	7.721	(1.000)	1896300	40.0000	
* 23 Perylene-d12	264		8.933	8.909	(1.000)	1869172	40.0000	(H)
2 Naphthalene	128		3.757	3.757	(1.003)	51107	1.76562	2843.4433
3 2-Methylnaphthalene	142		4.186	4.180	(1.118)	16508	0.85498	1376.9060
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	11025	0.62695	1009.6808
5 Acenaphthylene	152		4.745	4.745	(0.982)	4115	0.11762	189.4148
7 Acenaphthene	154		4.851	4.851	(1.004)	109532	5.03682	8111.5682
9 Fluorene	166		5.174	5.168	(1.071)	111812	4.06558	6547.4312
11 Phenanthrene	178		5.804	5.792	(1.003)	1353970	29.1641	46967.4014
12 Anthracene	178		5.833	5.827	(1.008)	324073	7.13750	11494.6104

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.945	5.933	(1.027)	235739	5.84073	9406.2211
15 Fluoranthene	202	6.639	6.633	(1.147)	2099188	41.2884	66493.1302
16 Pyrene	202	6.810	6.798	(0.881)	1567174	30.7528	49526.0086
17 Benzo(a)anthracene	228	7.727	7.715	(0.999)	990489	18.0974	29145.1034
19 Chrysene	228	7.751	7.745	(1.002)	885297	16.1633	26030.2807
20 Benzo(b)fluoranthene	252	8.586	8.562	(0.961)	1067844	21.8604	35205.1147(MH)
21 Benzo(k)fluoranthene	252	8.604	8.586	(0.963)	489849	9.77530	15742.6747(M)
22 Benzo(a)pyrene	252	8.880	8.856	(0.994)	715660	15.0831	24290.6403(H)
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.080	(1.132)	376029	8.42454	13567.3385(MH)
25 Dibenzo(a,h)anthracene	278	10.121	10.097	(1.133)	126117	2.88867	4652.0636(H)
26 Benzo(g,h,i)perylene	276	10.462	10.433	(1.171)	420555	9.00702	14505.3939(H)

QC Flag Legend

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

Data File: 1CC19010.D

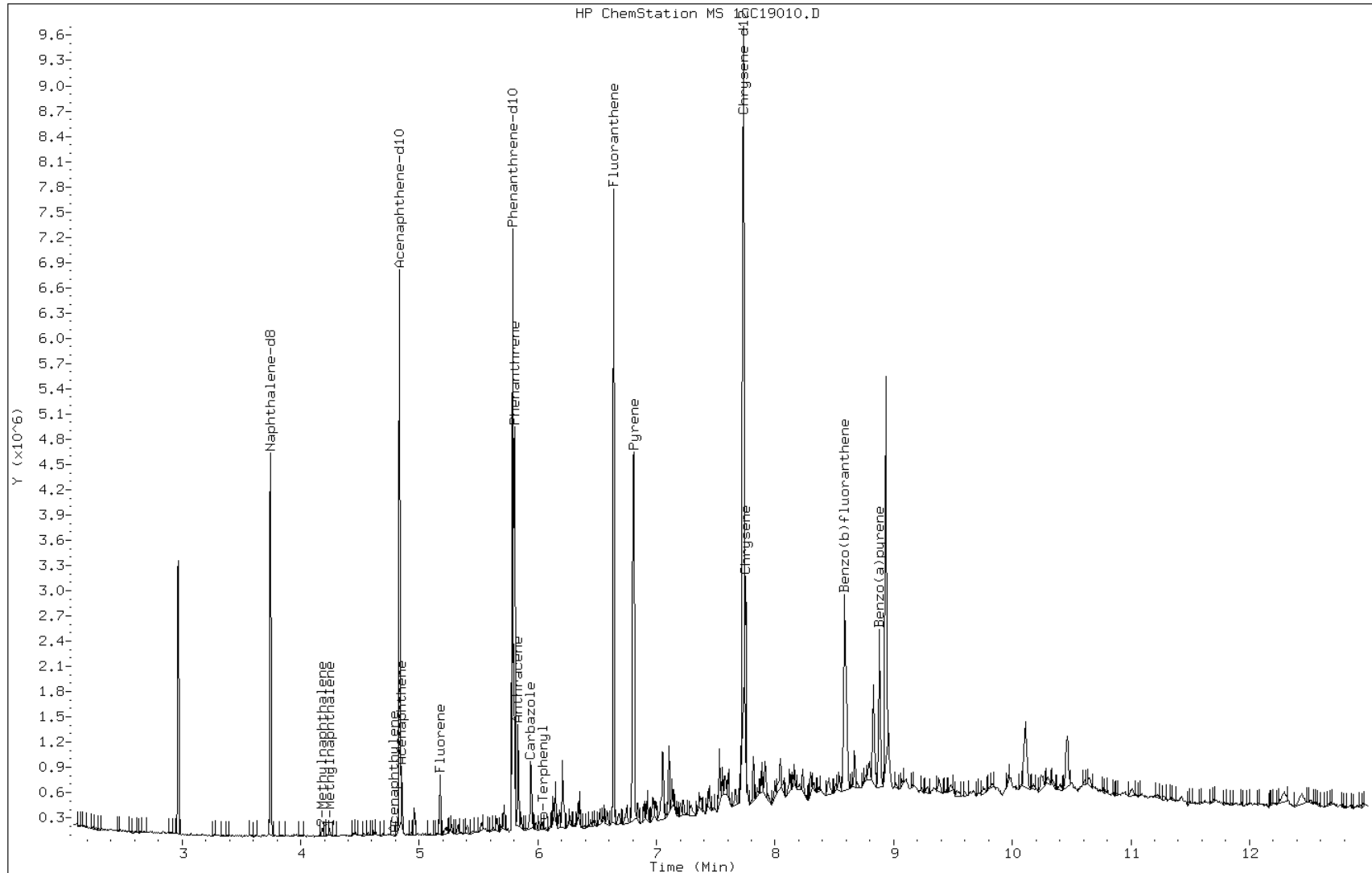
Date: 19-MAR-2013 14:47

Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

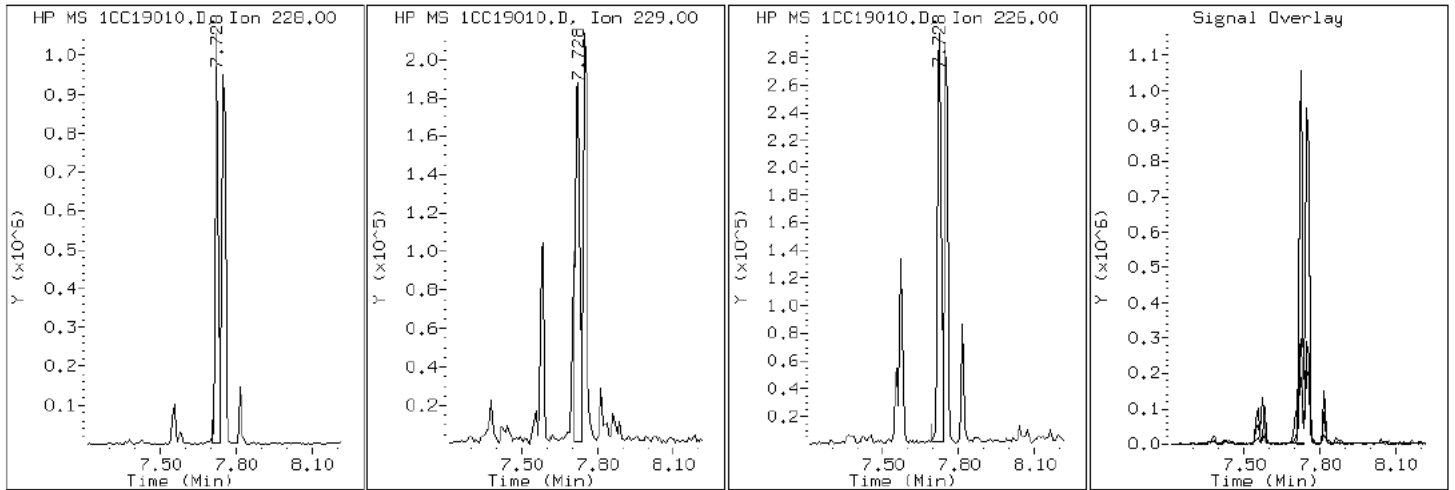
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

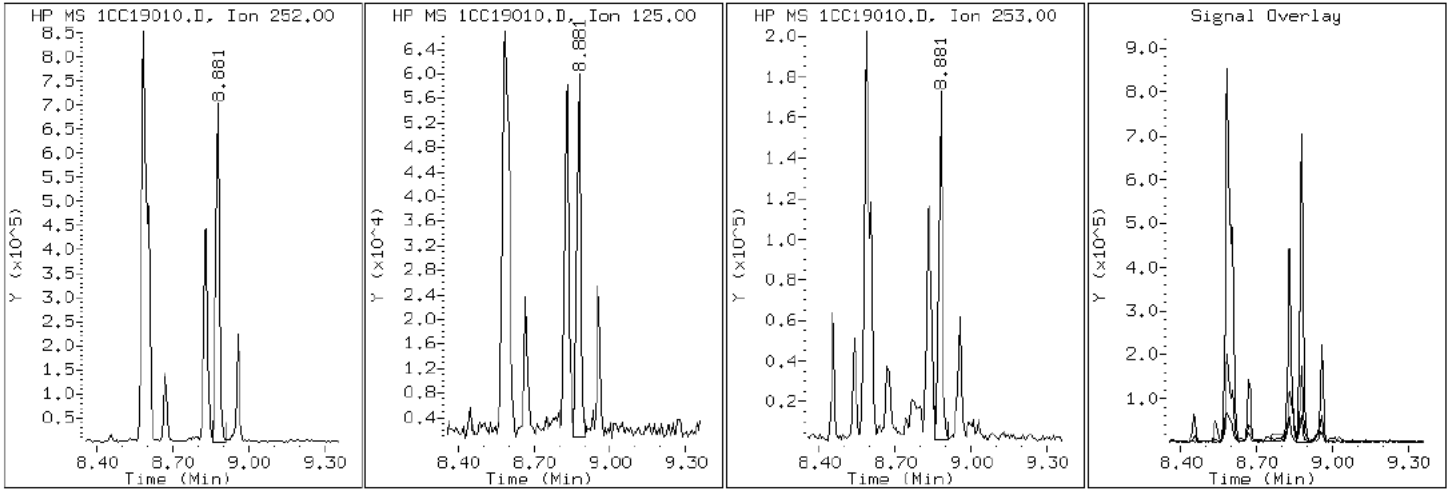
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

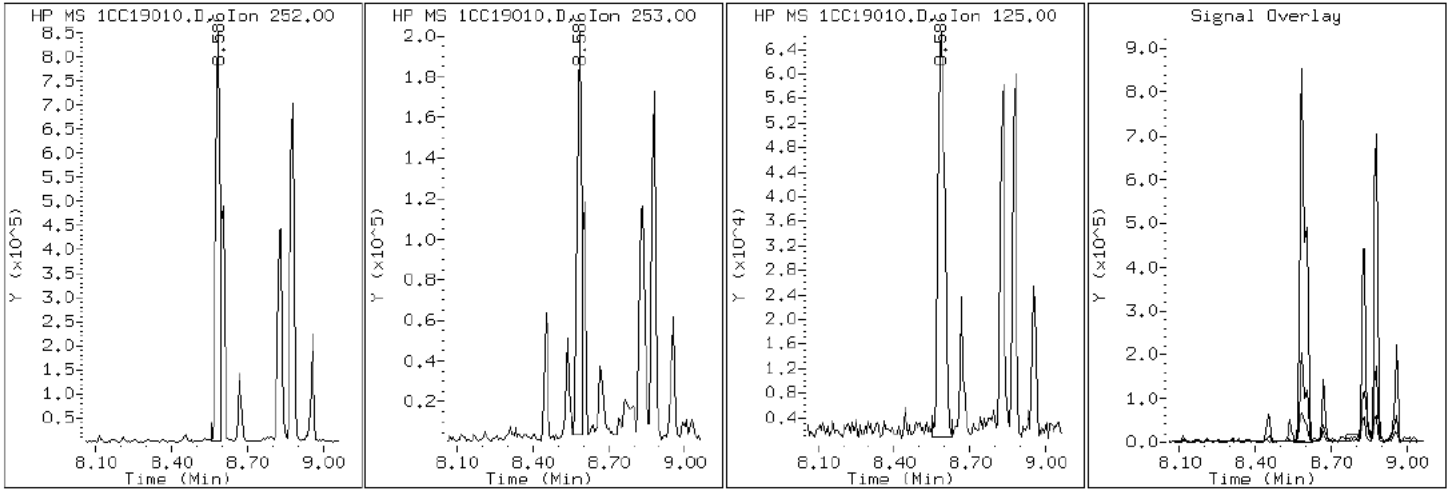
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

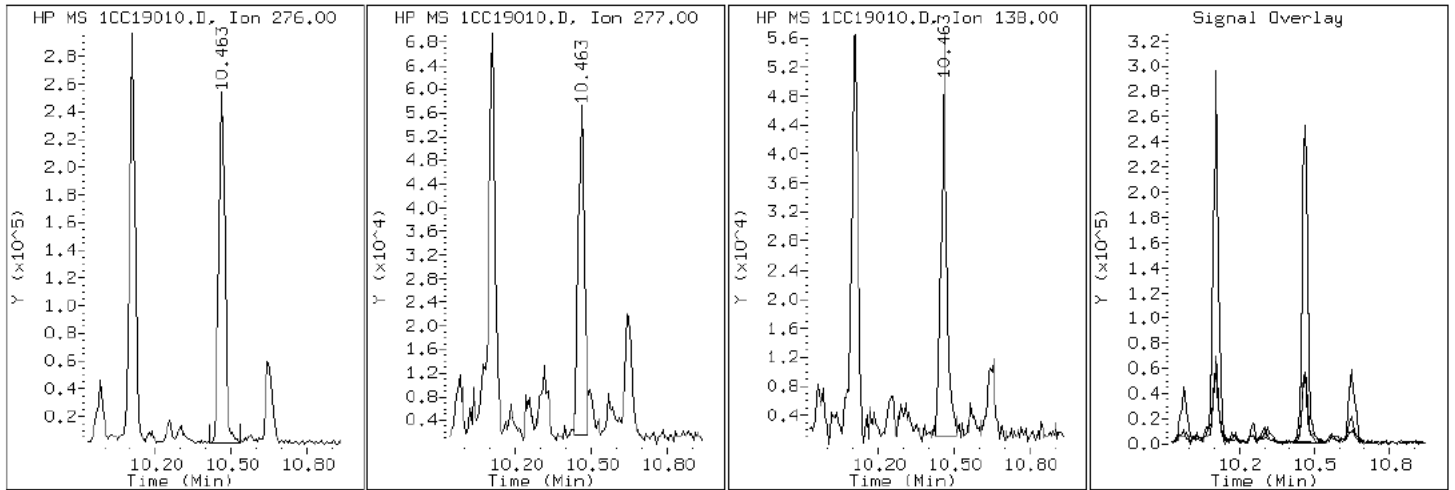
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

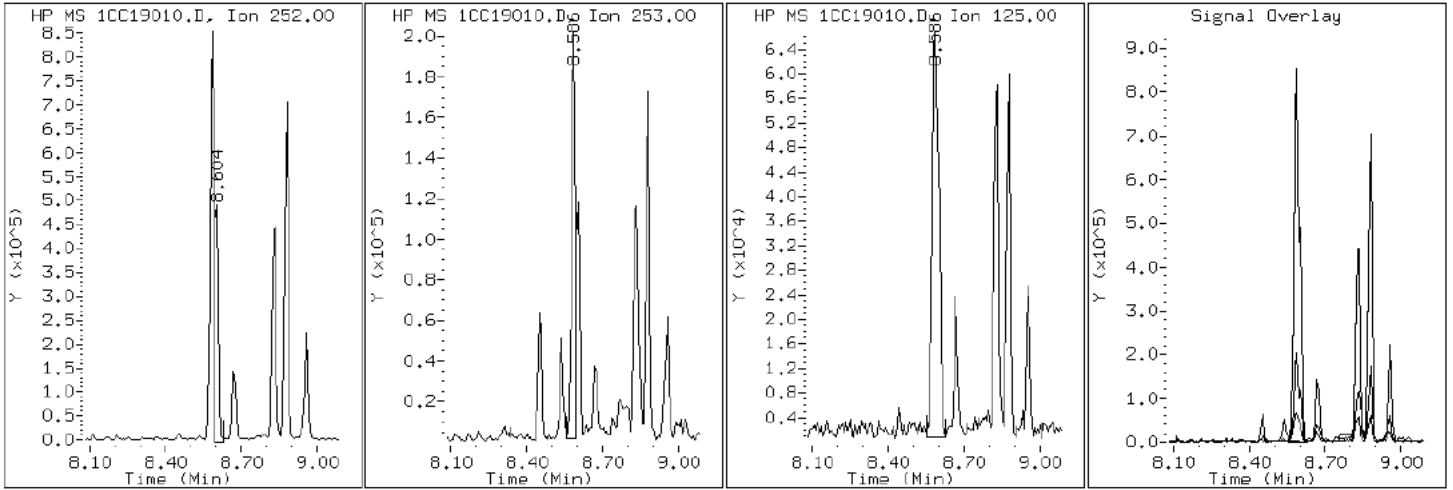
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

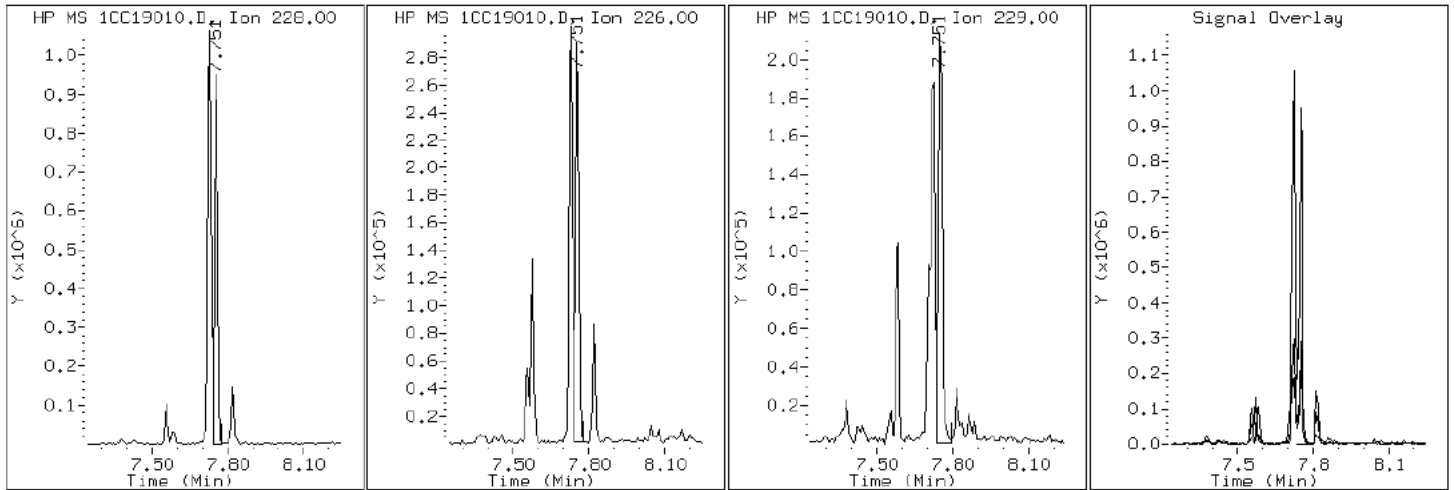
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

19 Chrysene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

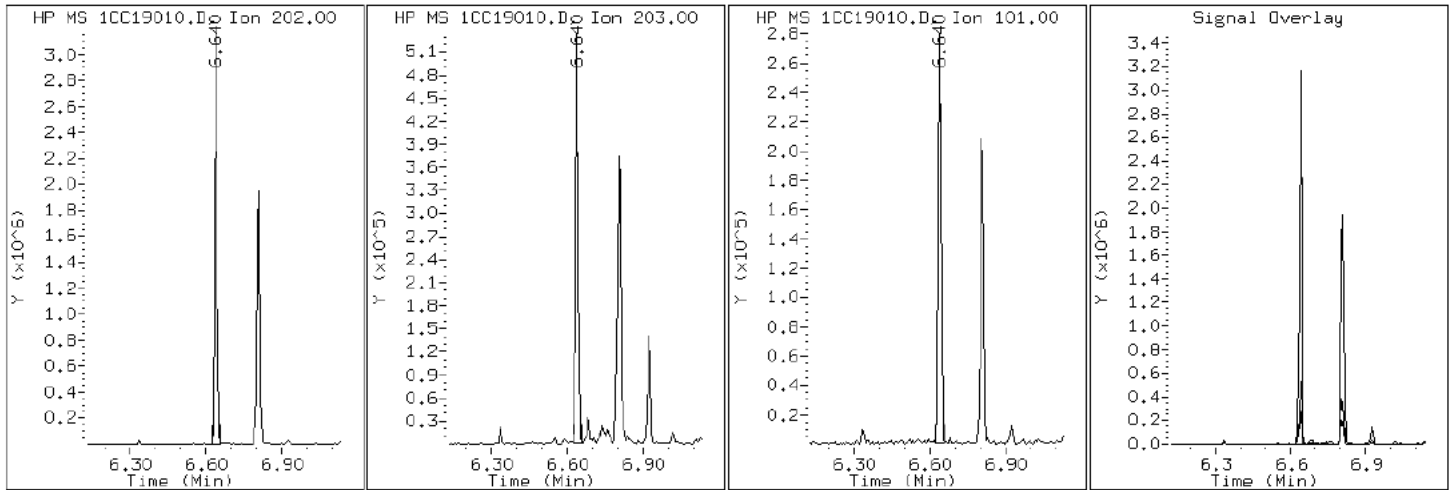
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

15 Fluoranthene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

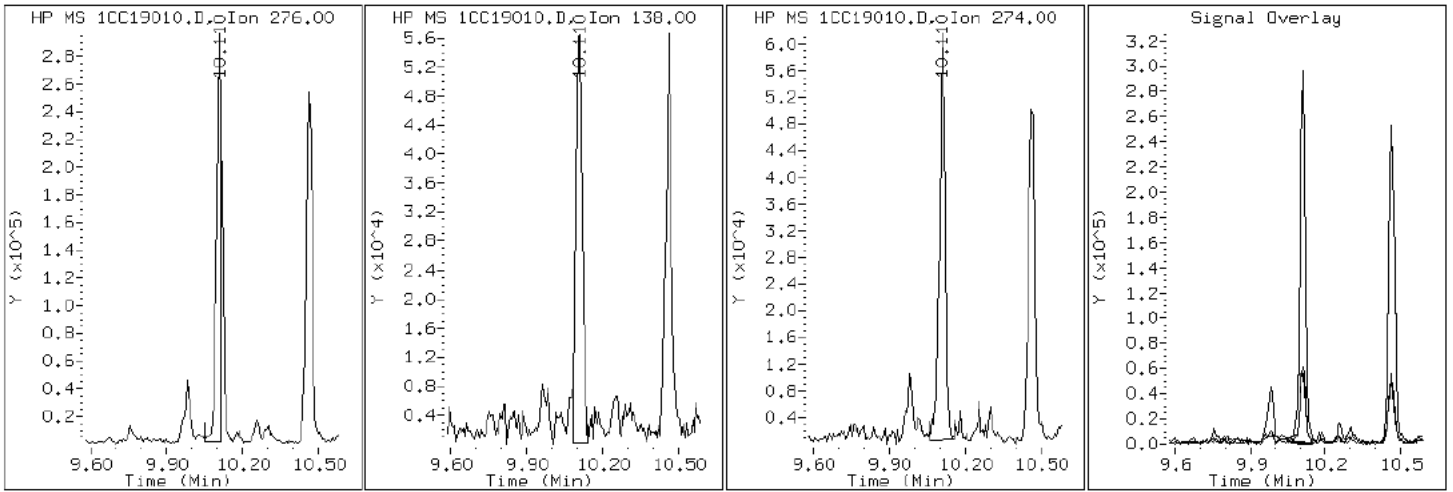
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

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



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

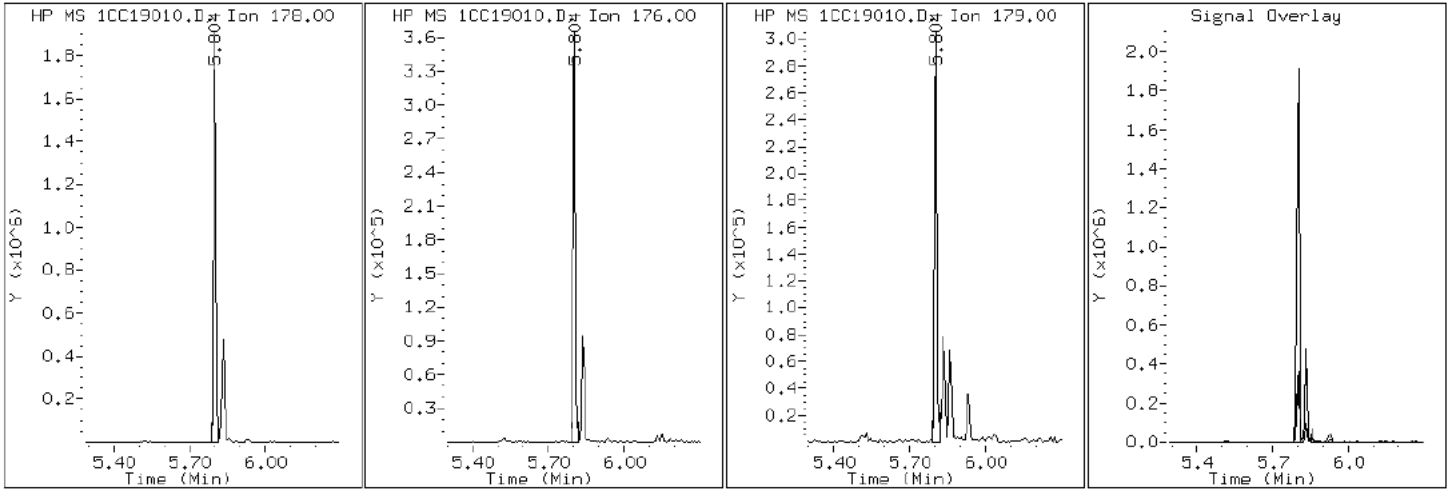
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

11 Phenanthrene



Data File: 1CC19010.D

Date: 19-MAR-2013 14:47

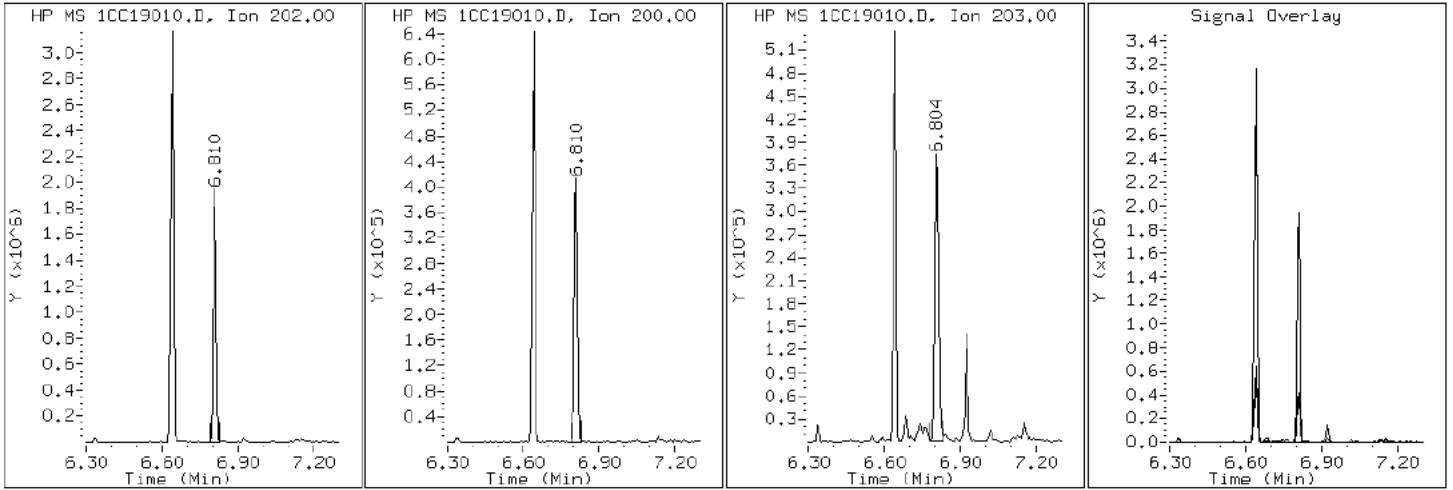
Client ID: HP0113A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-A-23-A

Operator: SCC

16 Pyrene

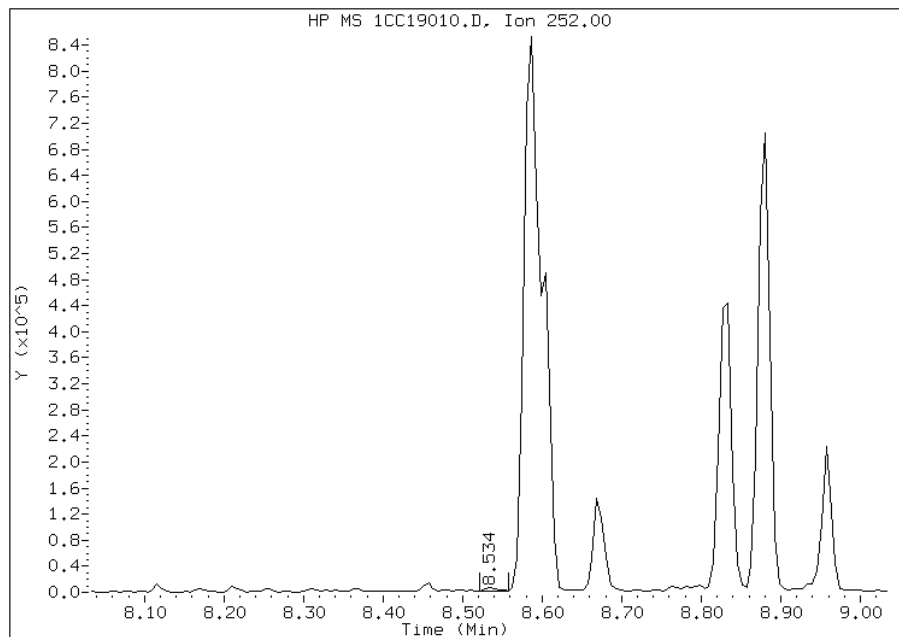


Manual Integration Report

Data File: 1CC19010.D
Inj. Date and Time: 19-MAR-2013 14:47
Instrument ID: BSMC5973.i
Client ID: HP0113A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

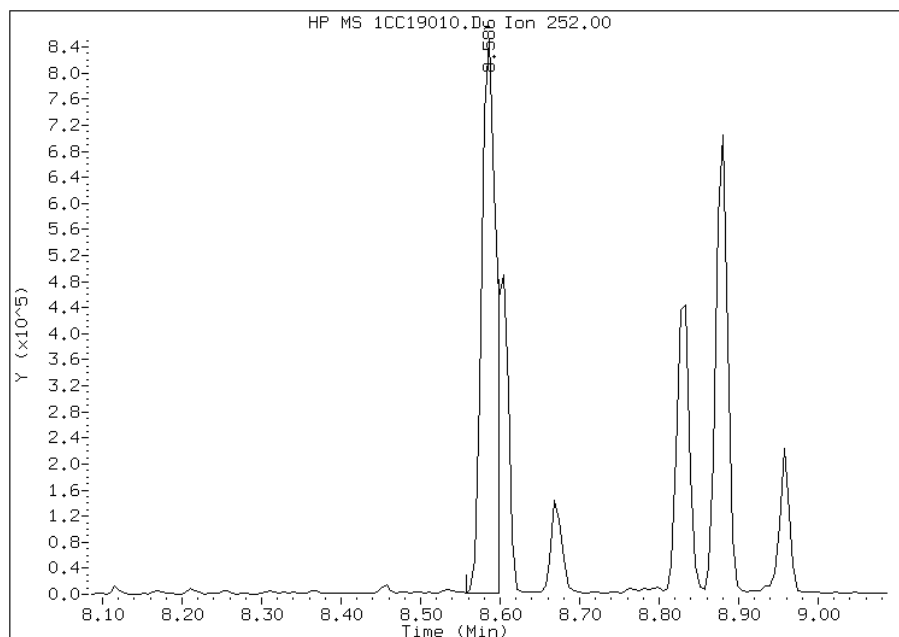
Processing Integration Results

RT: 8.53
Response: 6961
Amount: 0
Conc: 229



Manual Integration Results

RT: 8.59
Response: 1067844
Amount: 22
Conc: 35205



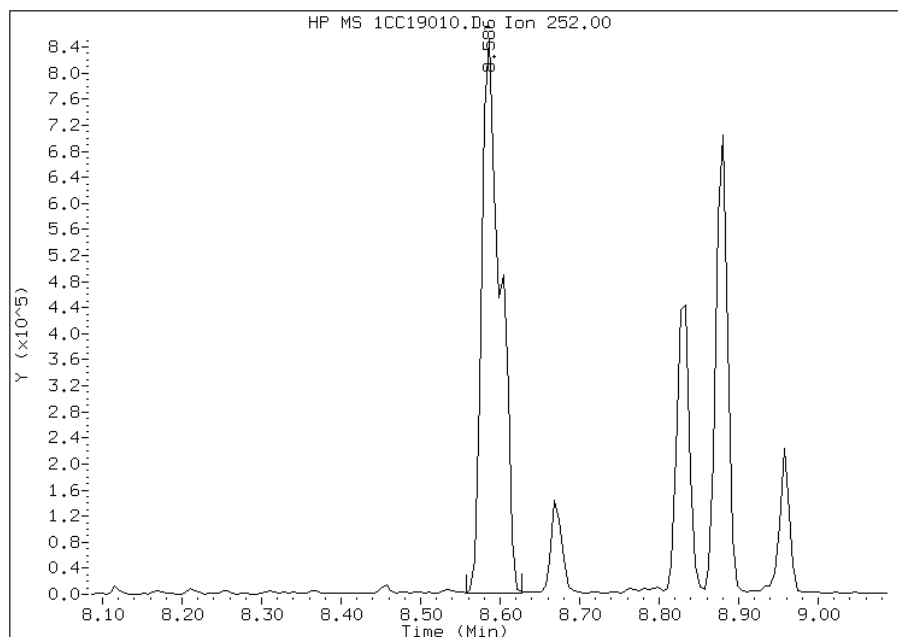
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 15:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC19010.D
Inj. Date and Time: 19-MAR-2013 14:47
Instrument ID: BSMC5973.i
Client ID: HP0113A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

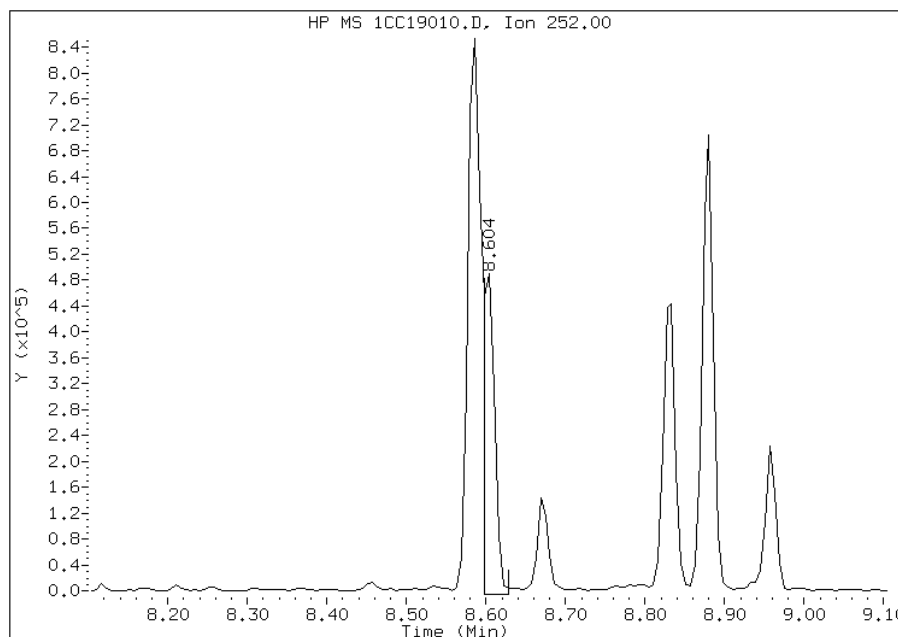
Processing Integration Results

RT: 8.59
Response: 1383735
Amount: 28
Conc: 44470



Manual Integration Results

RT: 8.60
Response: 489849
Amount: 10
Conc: 15743



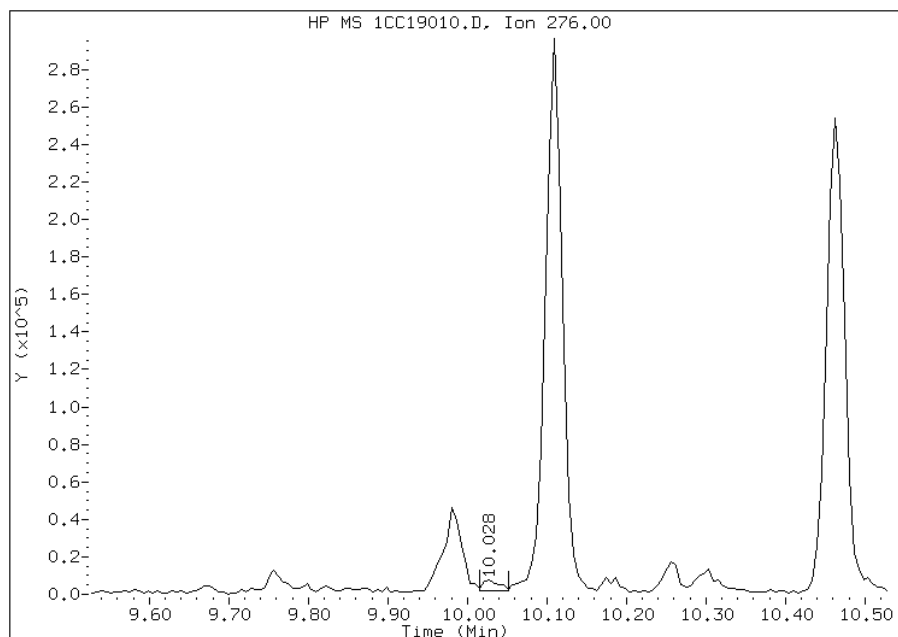
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 15:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC19010.D
Inj. Date and Time: 19-MAR-2013 14:47
Instrument ID: BSMC5973.i
Client ID: HP0113A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

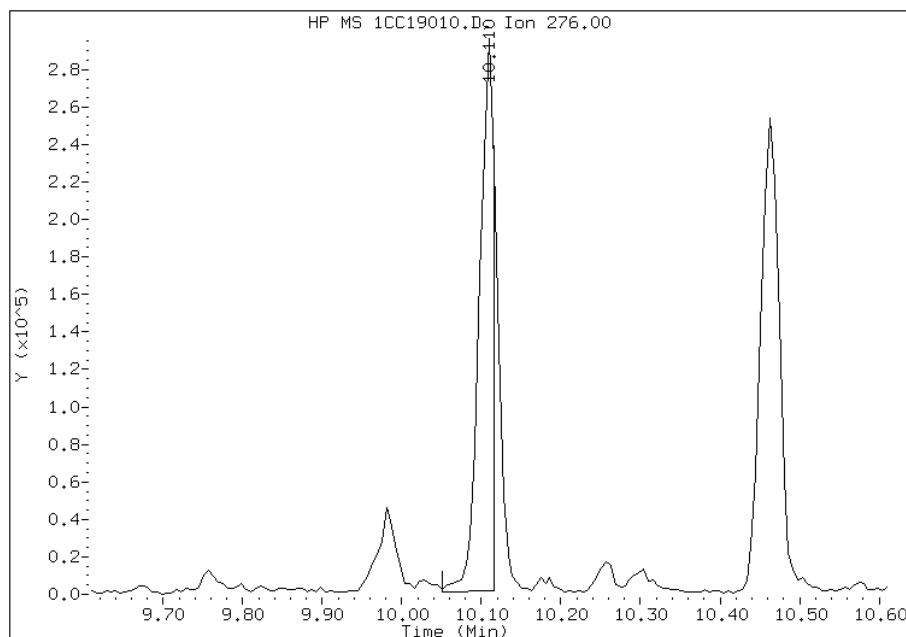
Processing Integration Results

RT: 10.03
Response: 8507
Amount: 0
Conc: 307



Manual Integration Results

RT: 10.11
Response: 376029
Amount: 8
Conc: 13567



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 15:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0166A-CS Lab Sample ID: 680-88118-24
 Matrix: Solid Lab File ID: 1CC15013.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 15:40
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.04(g) Date Analyzed: 03/15/2013 18:59
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	9.5	J	48	6.0
120-12-7	Anthracene	25		10	5.0
56-55-3	Benzo[a]anthracene	110		9.6	4.7
50-32-8	Benzo[a]pyrene	110		12	6.2
205-99-2	Benzo[b]fluoranthene	170		15	7.3
191-24-2	Benzo[g,h,i]perylene	93		24	5.3
207-08-9	Benzo[k]fluoranthene	63		9.6	4.3
218-01-9	Chrysene	160		11	5.4
53-70-3	Dibenz(a,h)anthracene	29		24	4.9
206-44-0	Fluoranthene	200		24	4.8
86-73-7	Fluorene	11	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	51		24	8.5
90-12-0	1-Methylnaphthalene	80		48	5.3
91-57-6	2-Methylnaphthalene	99		48	8.5
91-20-3	Naphthalene	65		48	5.3
85-01-8	Phenanthrene	150		9.6	4.7
129-00-0	Pyrene	180		24	4.4

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15013.D
 Lab Smp Id: 680-88118-A-24-A Client Smp ID: CV0166A-CS
 Inj Date : 15-MAR-2013 18:59
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-24-a
 Misc Info : 680-88118-A-24-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	16.990	% 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		3.745	3.751	(1.000)	1106203	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	854810	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1570846	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	162434	6.84881	548.5783	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1878641	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1877069	40.0000		
2 Naphthalene	128		3.763	3.763	(1.005)	23460	0.81462	65.2498(Q)	
3 2-Methylnaphthalene	142		4.186	4.186	(1.118)	23657	1.23150	98.6407	
4 1-Methylnaphthalene	142		4.251	4.251	(1.135)	17506	1.00059	80.1455	
5 Acenaphthylene	152		4.751	4.751	(0.983)	4078	0.11833	9.4779	
9 Fluorene	166		5.174	5.174	(1.071)	3562	0.13148	10.5317(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	85569	1.88387	150.8947	
12 Anthracene	178		5.833	5.839	(1.008)	13684	0.30804	24.6737	
13 Carbazole	167		5.939	5.945	(1.026)	9785	0.24779	19.8479	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639 (1.147)		125813	2.52929	202.5914
16 Pyrene	202	6.804	6.810 (0.880)		115722	2.29217	183.5989
17 Benzo(a)anthracene	228	7.721	7.727 (0.999)		75911	1.40002	112.1395
19 Chrysene	228	7.745	7.751 (1.002)		106811	1.96843	157.6681
20 Benzo(b)fluoranthene	252	8.568	8.580 (0.961)		106992	2.18107	174.7000(M)
21 Benzo(k)fluoranthene	252	8.586	8.604 (0.963)		39365	0.78225	62.6571(QM)
22 Benzo(a)pyrene	252	8.857	8.874 (0.993)		65924	1.38355	110.8203
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109 (1.131)		28807	0.64268	51.4772(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.127 (1.132)		16092	0.36703	29.3985
26 Benzo(g,h,i)perylene	276	10.445	10.462 (1.172)		54326	1.15860	92.8022

QC Flag Legend

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

Data File: 1CC15013.D

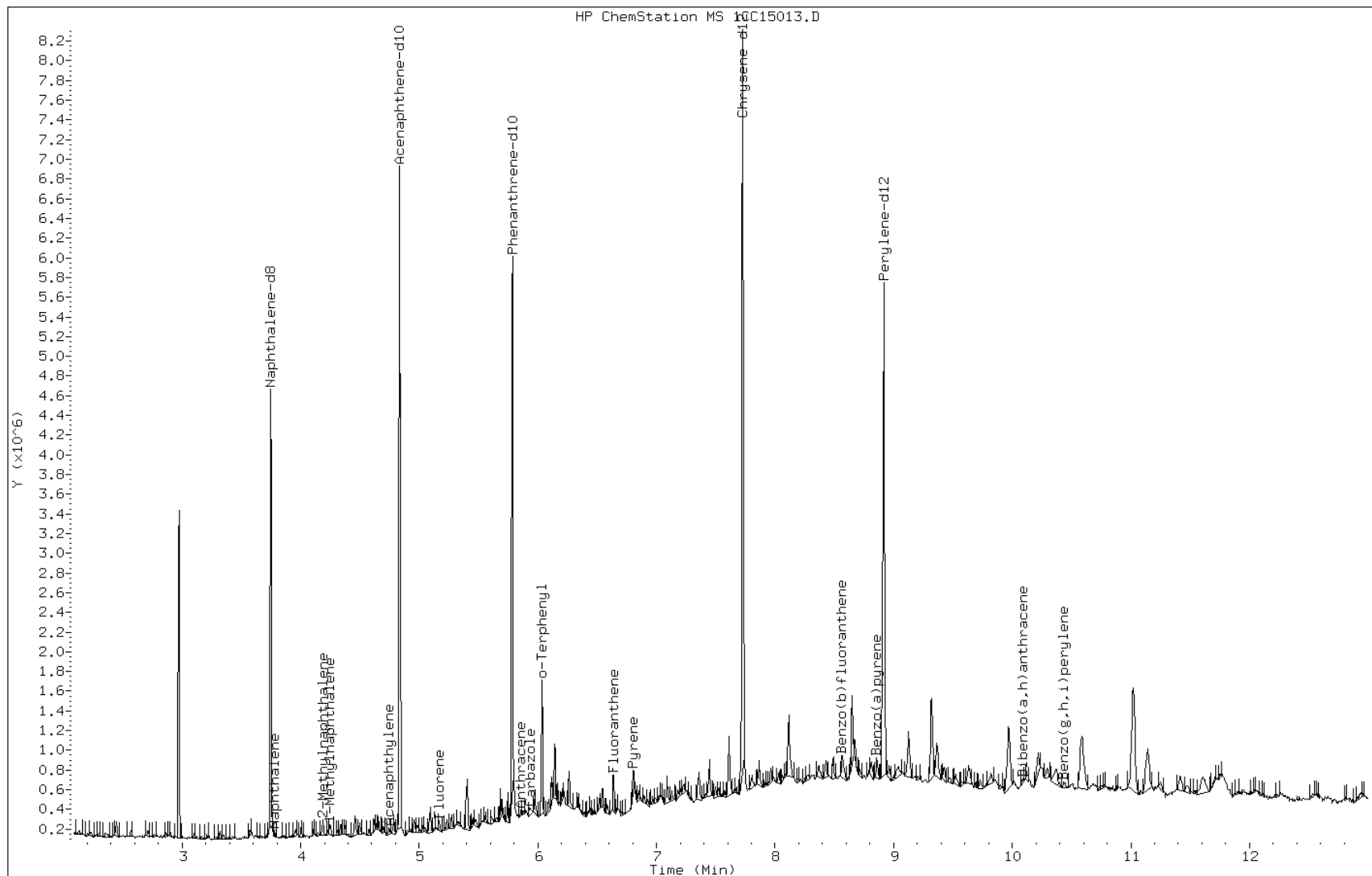
Date: 15-MAR-2013 18:59

Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

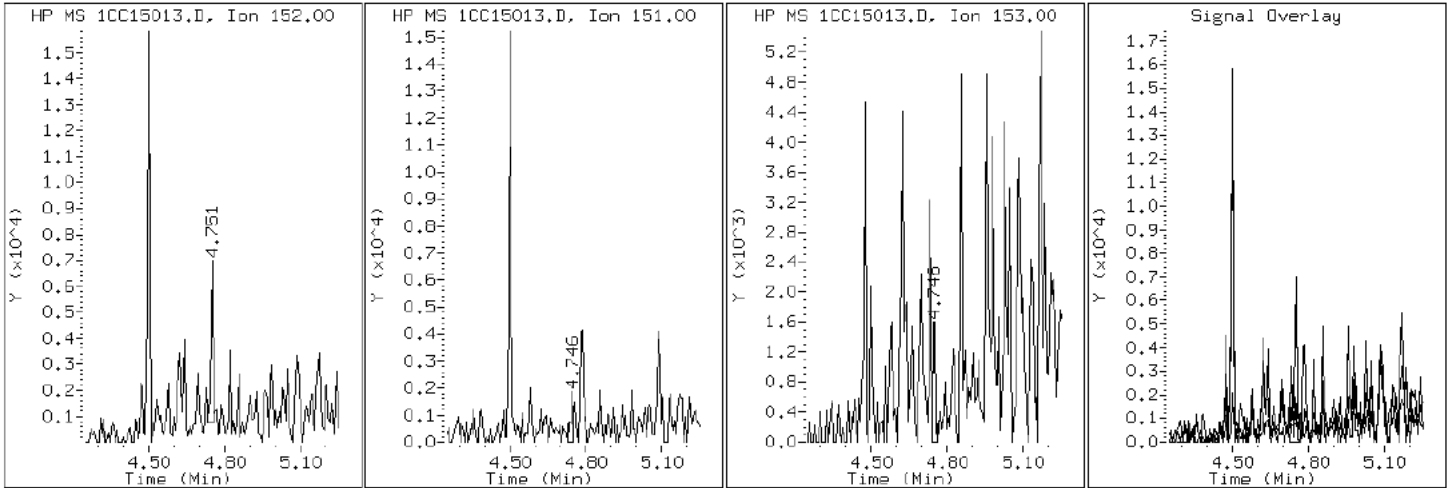
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

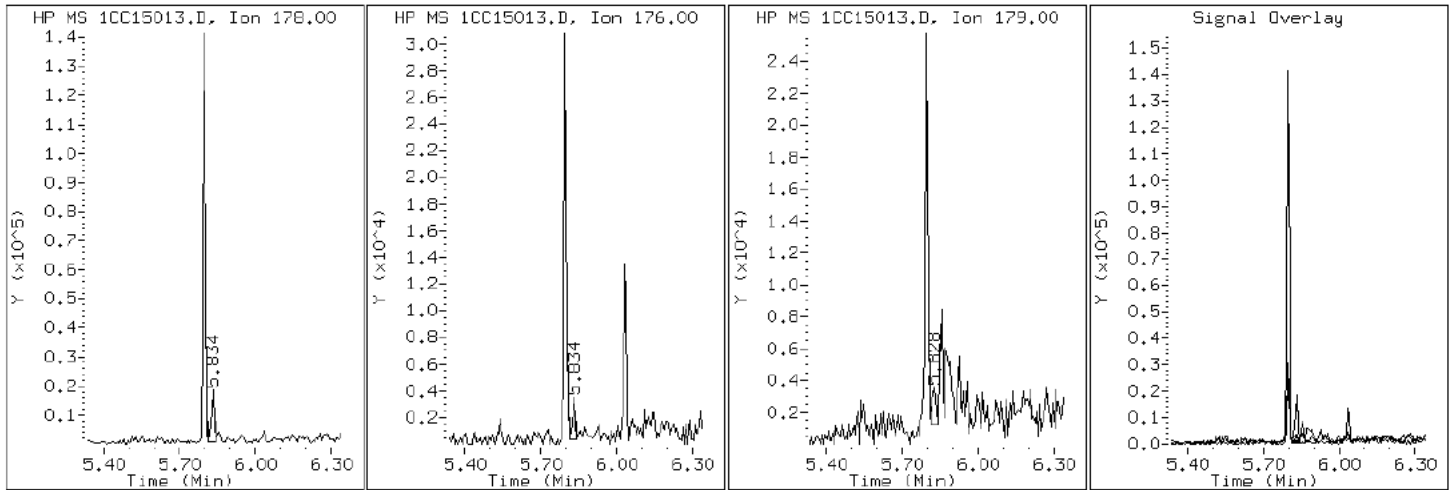
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

12 Anthracene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

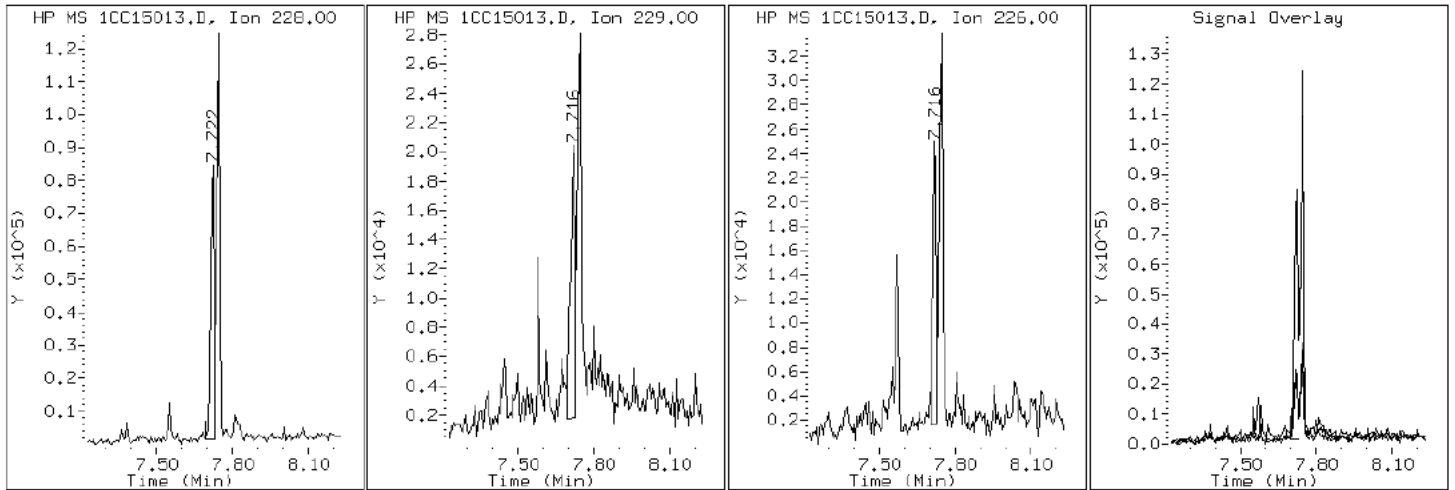
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

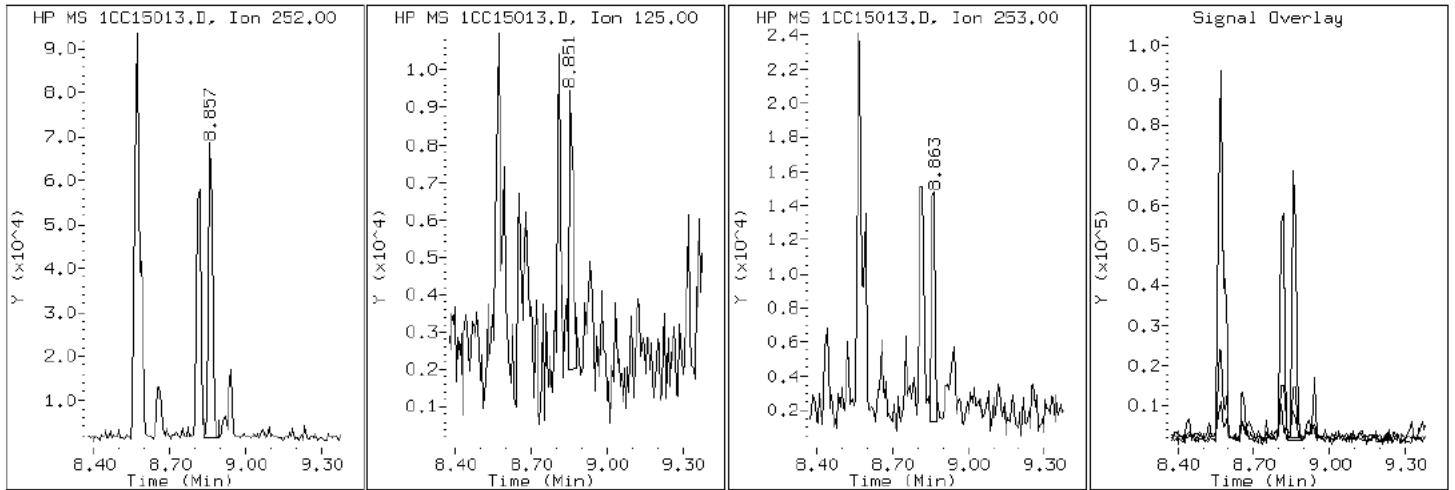
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

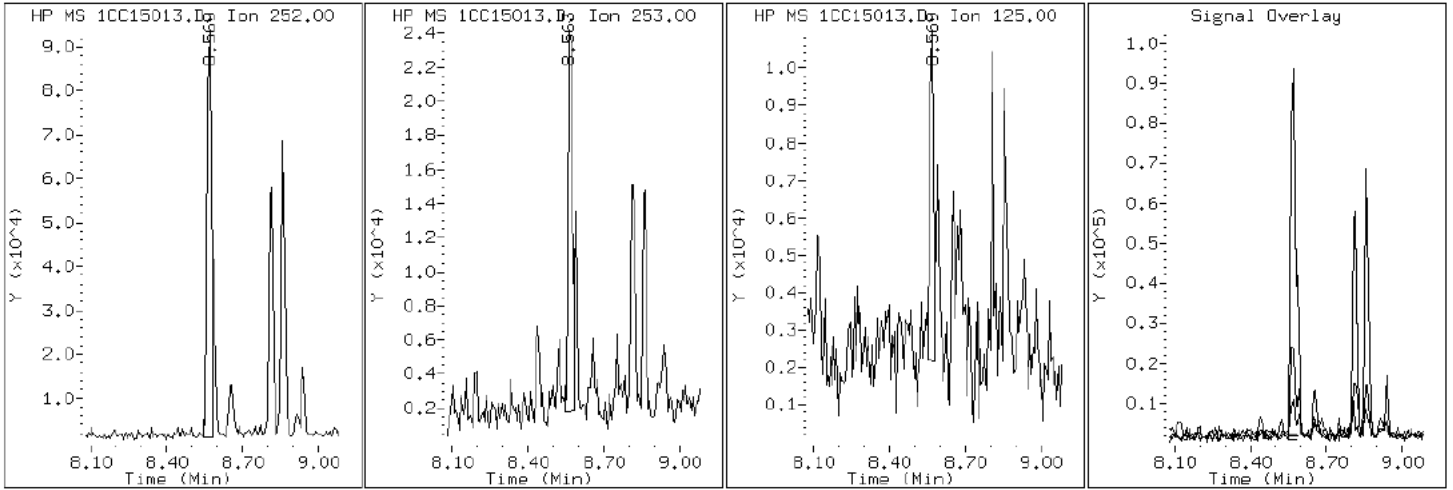
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

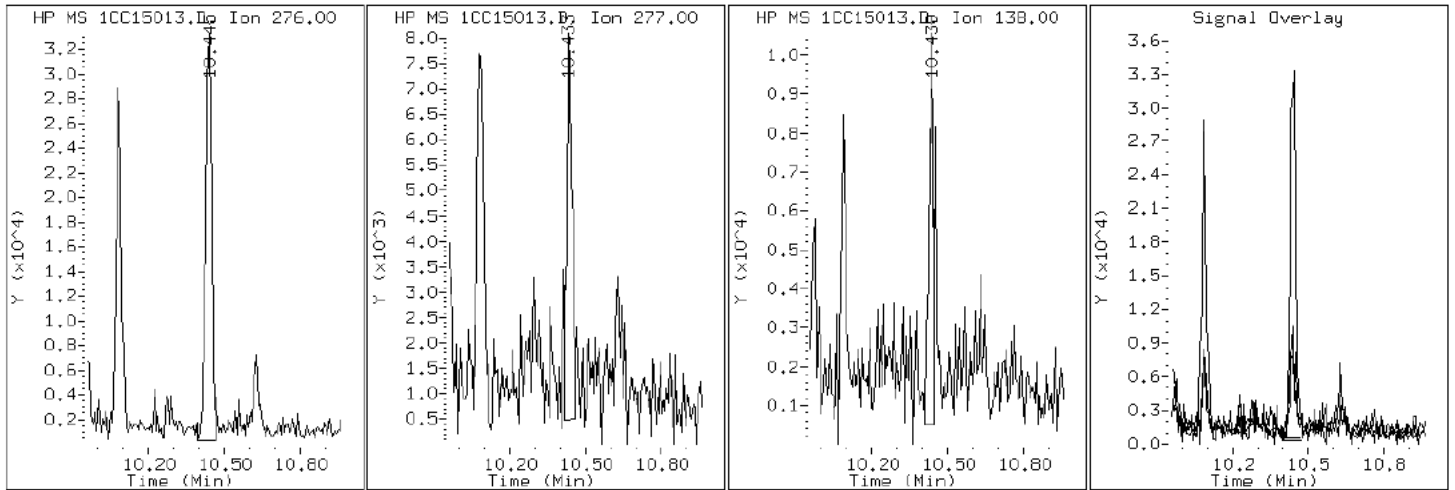
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

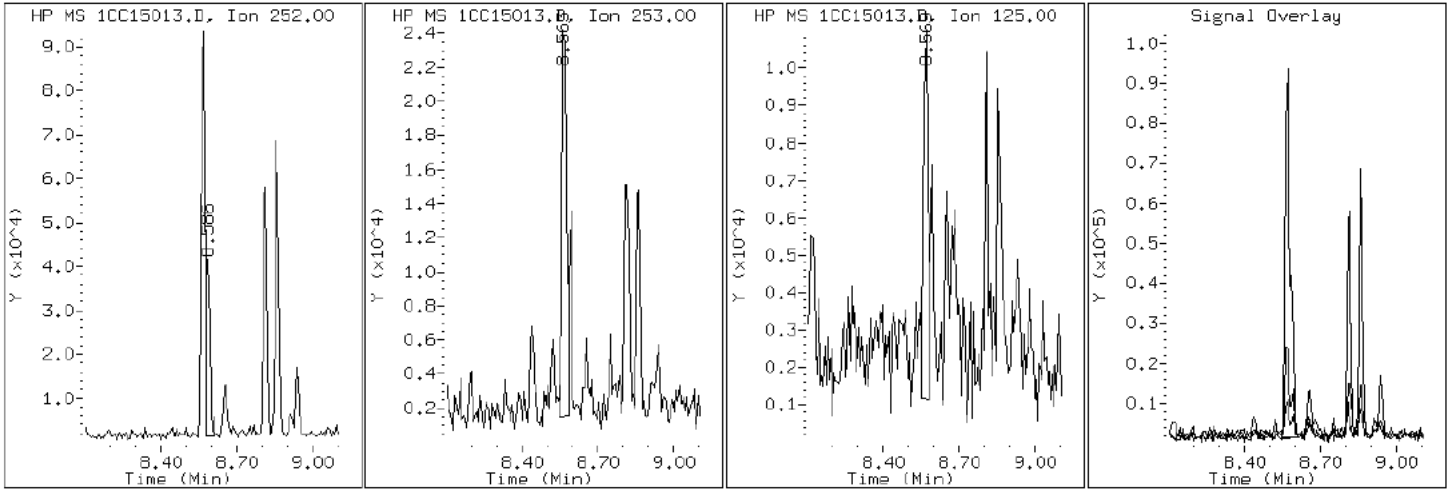
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

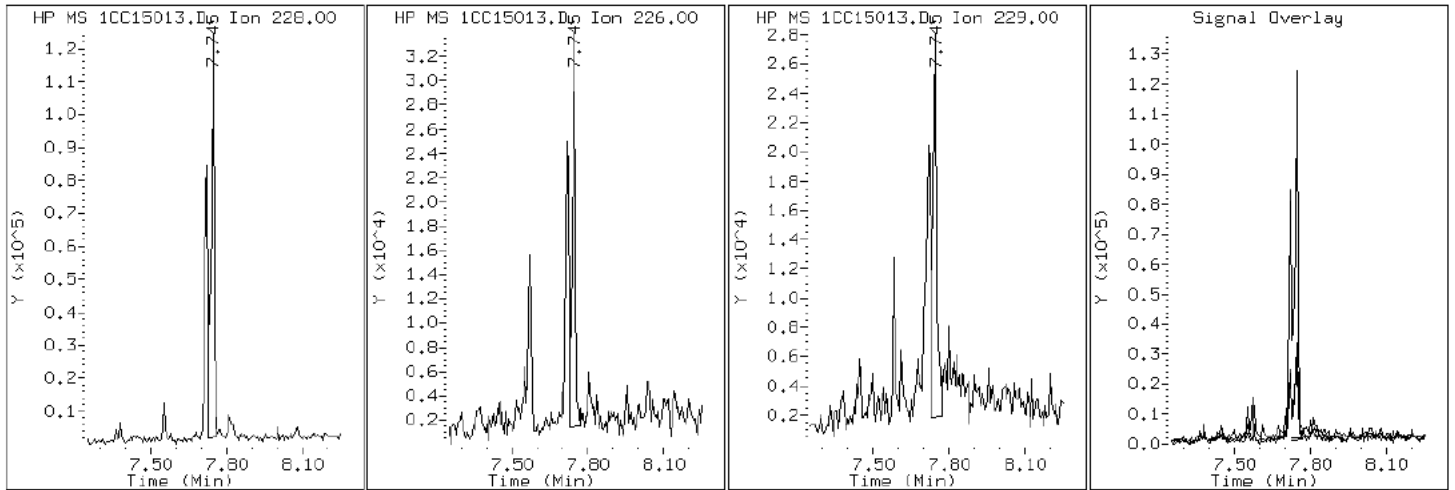
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

19 Chrysene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

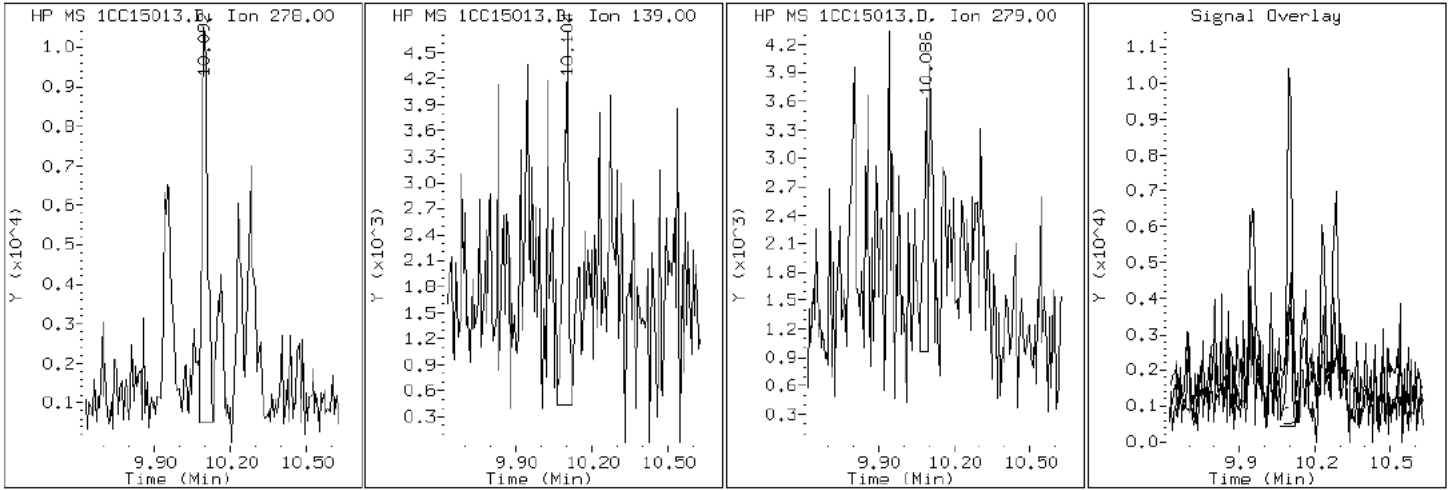
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

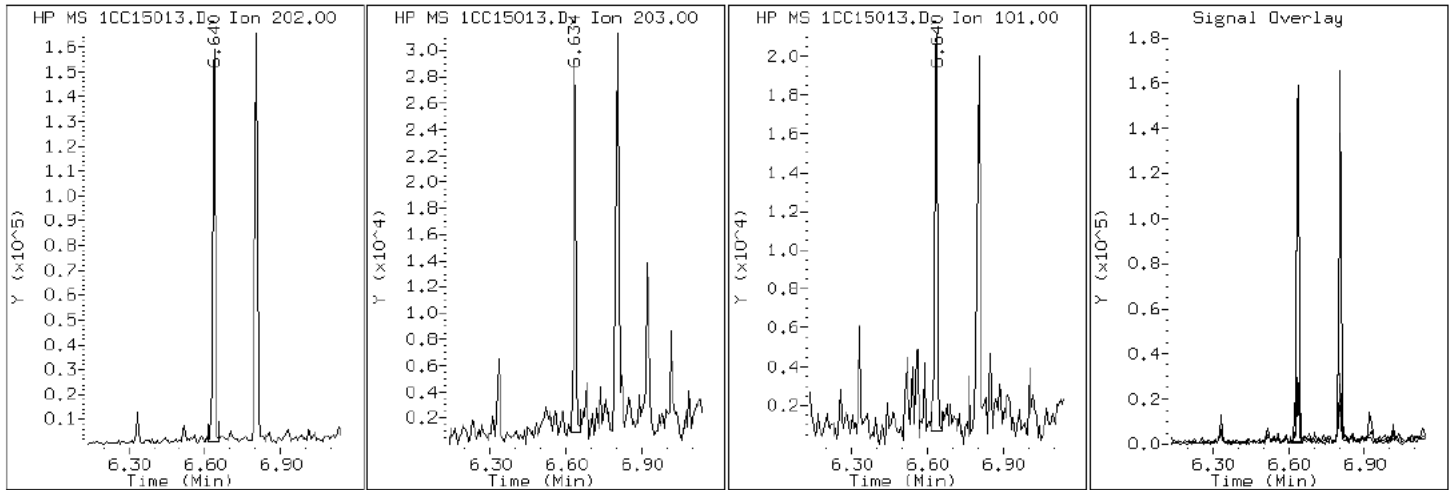
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

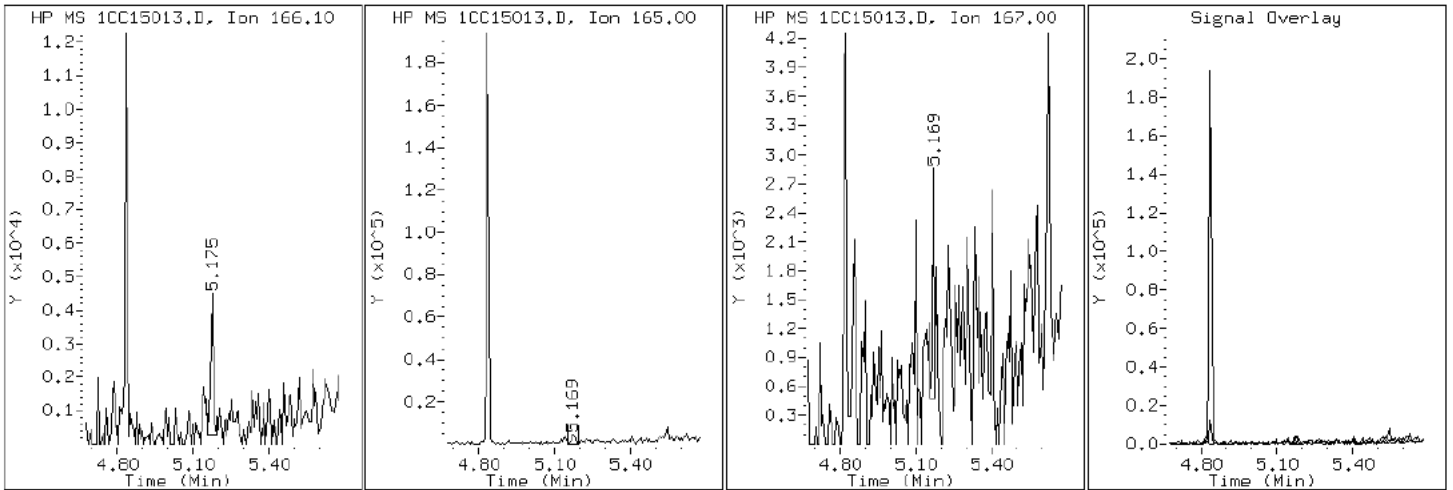
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

9 Fluorene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

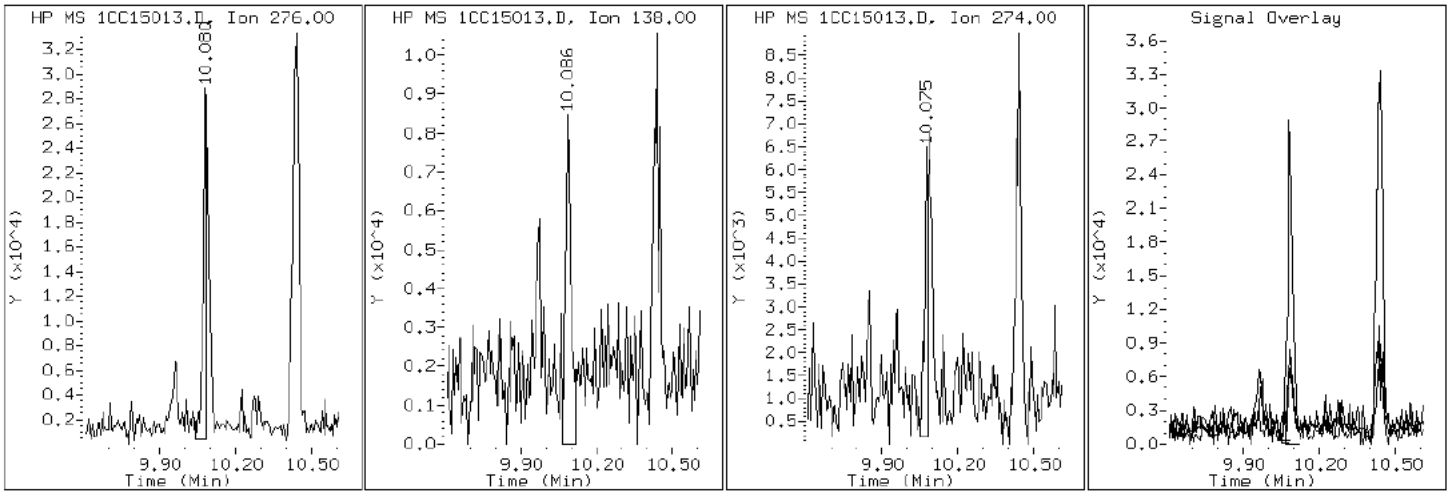
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

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



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

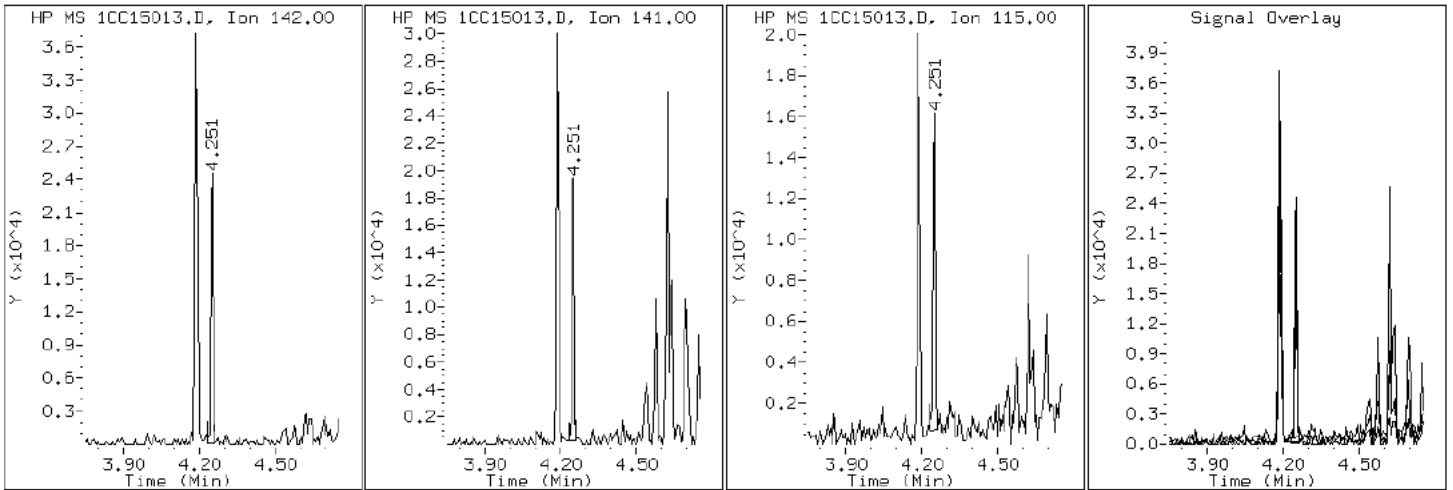
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

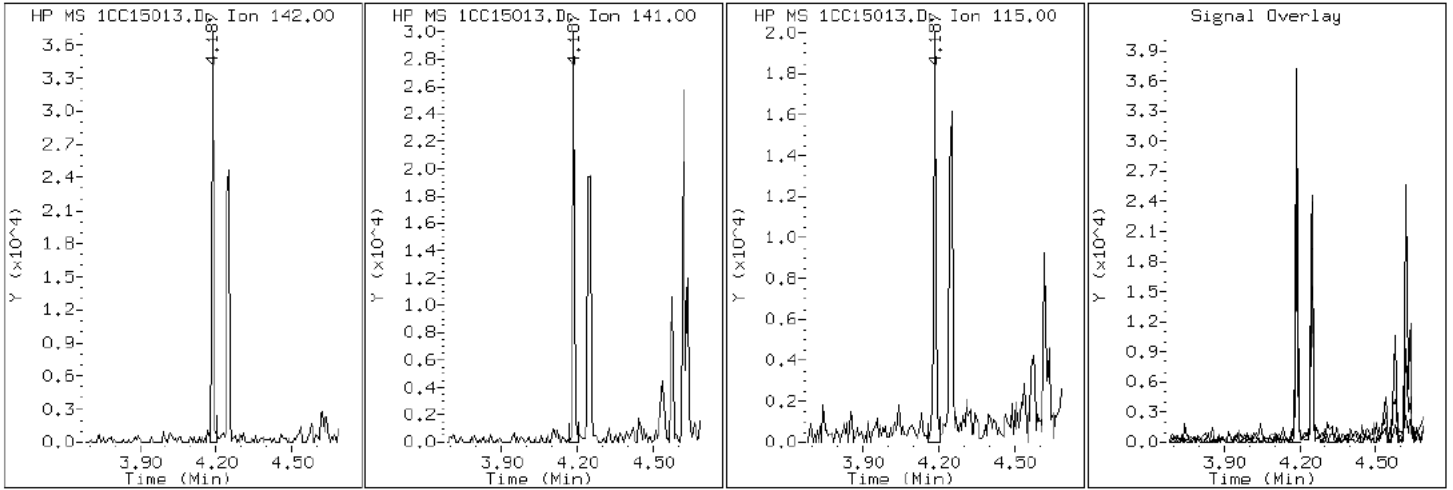
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

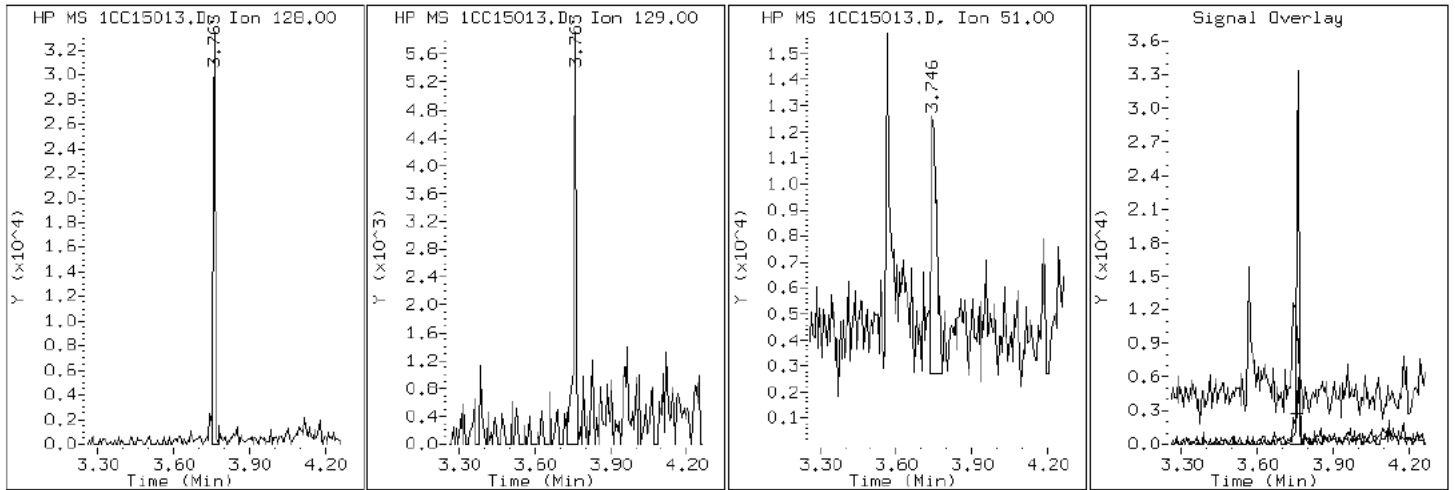
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

2 Naphthalene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

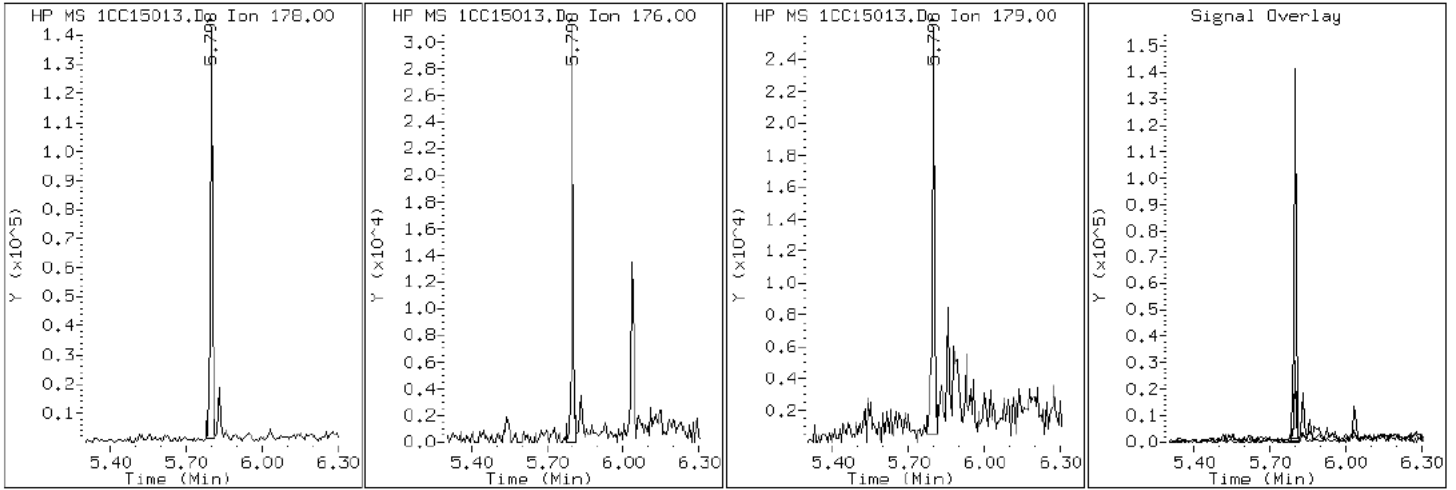
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15013.D

Date: 15-MAR-2013 18:59

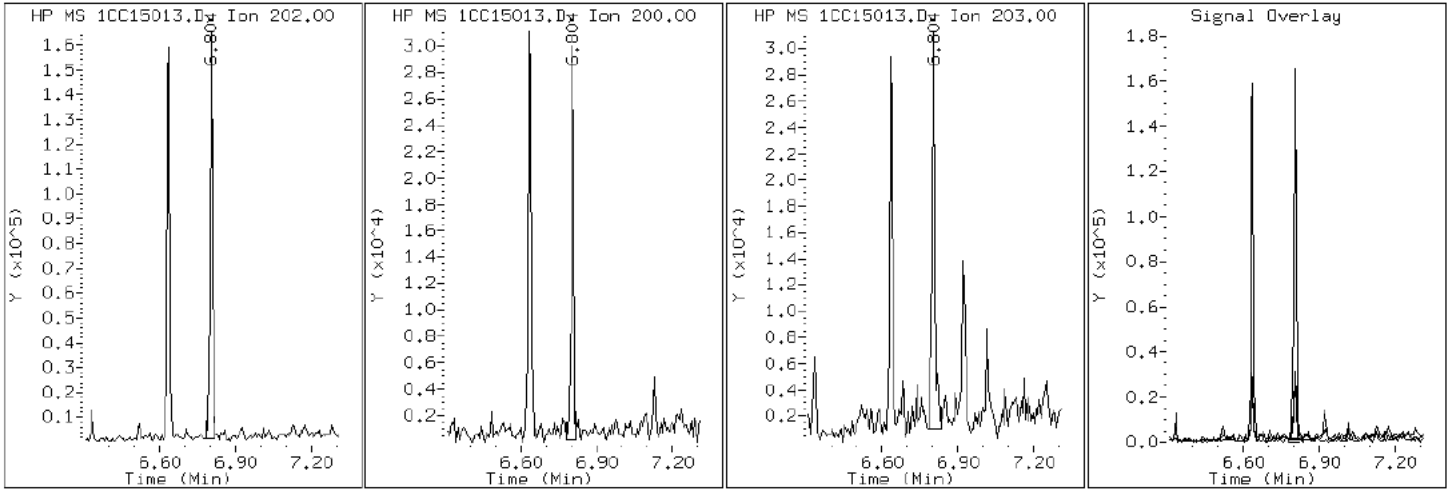
Client ID: CV0166A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-24-a

Operator: SCC

16 Pyrene

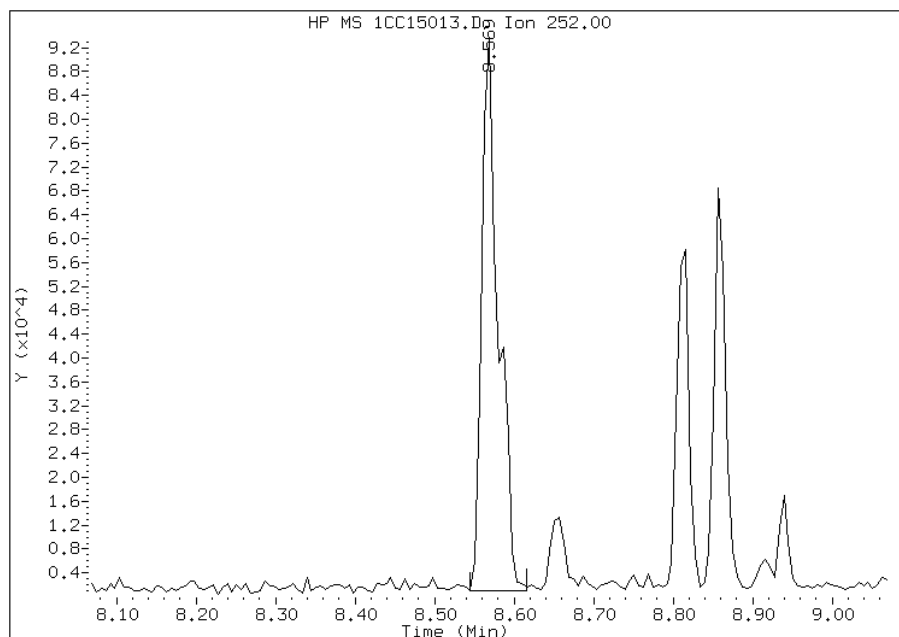


Manual Integration Report

Data File: 1CC15013.D
Inj. Date and Time: 15-MAR-2013 18:59
Instrument ID: BSMC5973.i
Client ID: CV0166A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

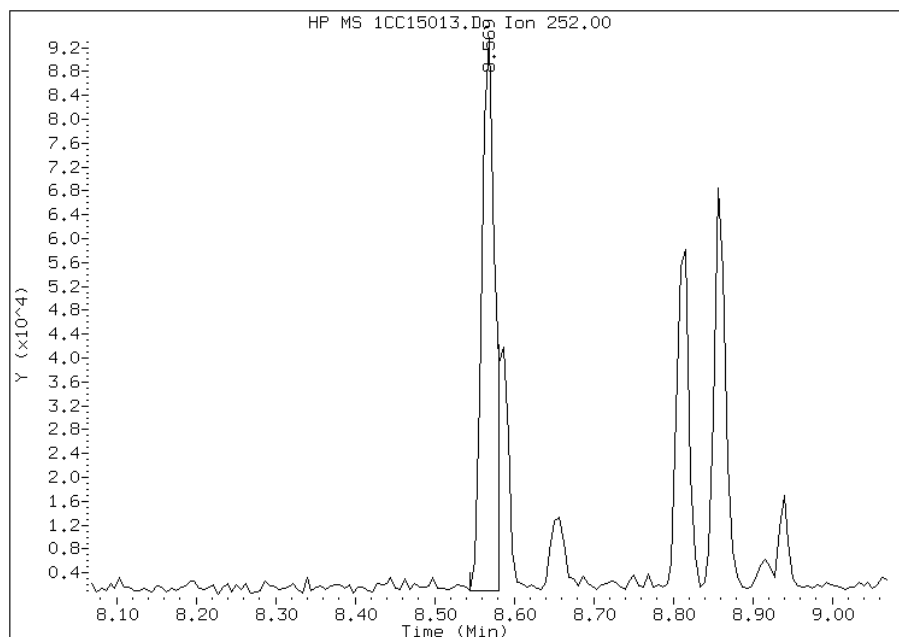
Processing Integration Results

RT: 8.57
Response: 133888
Amount: 3
Conc: 219



Manual Integration Results

RT: 8.57
Response: 106992
Amount: 2
Conc: 175



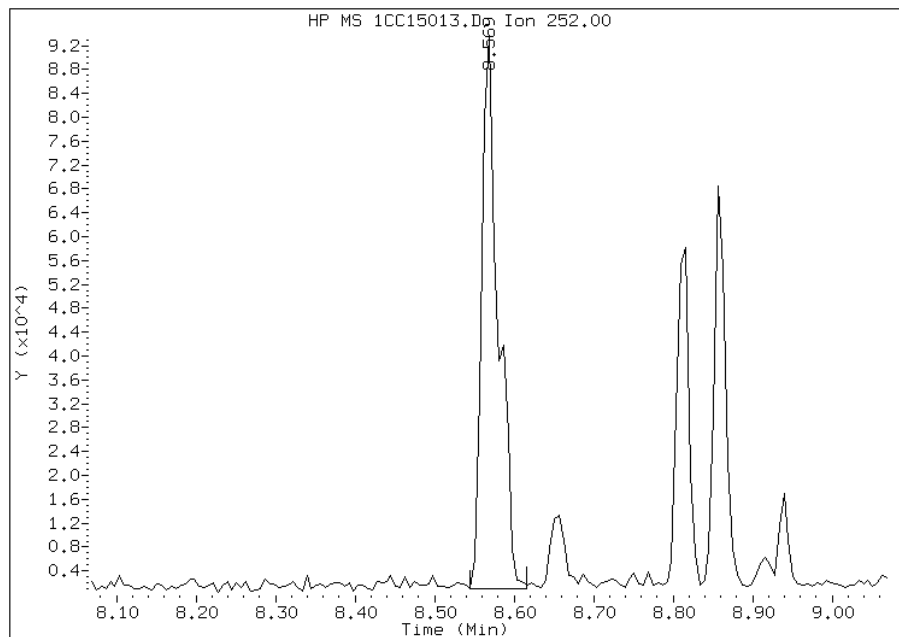
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15013.D
Inj. Date and Time: 15-MAR-2013 18:59
Instrument ID: BSMC5973.i
Client ID: CV0166A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

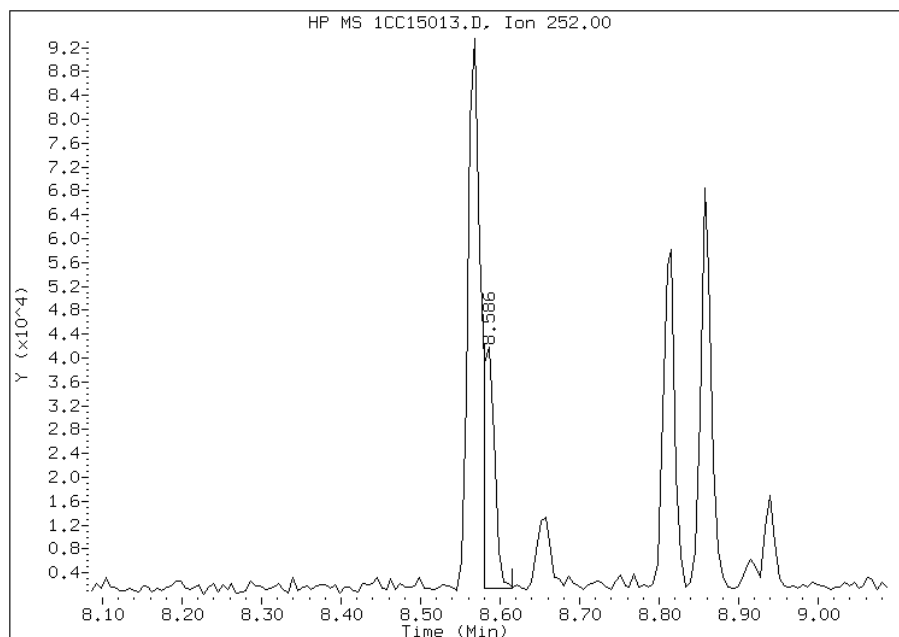
Processing Integration Results

RT: 8.57
Response: 133888
Amount: 3
Conc: 213



Manual Integration Results

RT: 8.59
Response: 39365
Amount: 1
Conc: 63



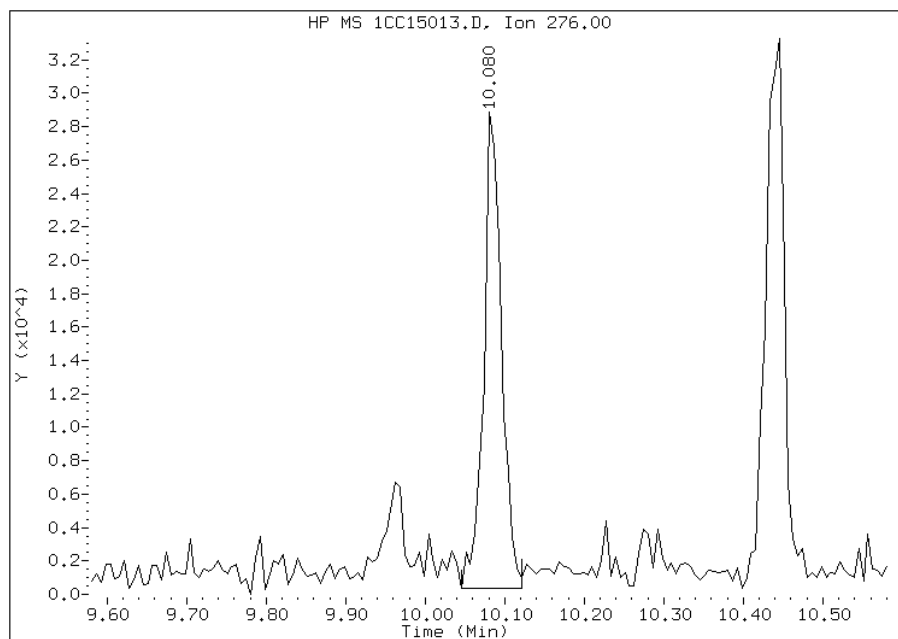
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15013.D
Inj. Date and Time: 15-MAR-2013 18:59
Instrument ID: BSMC5973.i
Client ID: CV0166A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

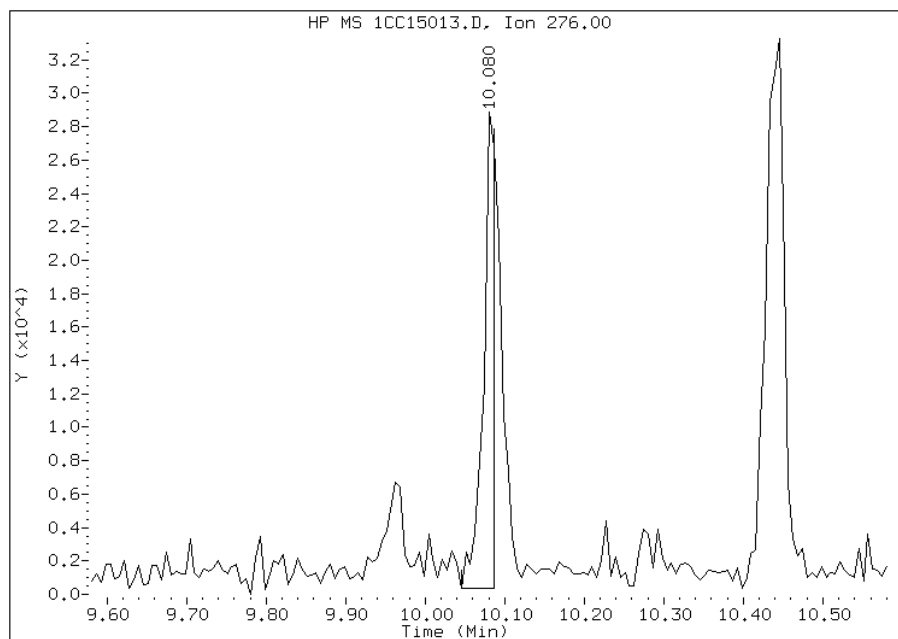
Processing Integration Results

RT: 10.08
Response: 44062
Amount: 1
Conc: 79



Manual Integration Results

RT: 10.08
Response: 28807
Amount: 1
Conc: 51



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0166B-CS Lab Sample ID: 680-88118-25
 Matrix: Solid Lab File ID: 1CC15014.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 15:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.97(g) Date Analyzed: 03/15/2013 19:17
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	35	J	210	27
120-12-7	Anthracene	83		45	23
56-55-3	Benzo[a]anthracene	330		43	21
50-32-8	Benzo[a]pyrene	330		56	28
205-99-2	Benzo[b]fluoranthene	520		66	33
191-24-2	Benzo[g,h,i]perylene	240		110	24
207-08-9	Benzo[k]fluoranthene	180		43	19
218-01-9	Chrysene	500		48	24
53-70-3	Dibenz(a,h)anthracene	71	J	110	22
206-44-0	Fluoranthene	600		110	21
86-73-7	Fluorene	47	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	230		110	38
90-12-0	1-Methylnaphthalene	430		210	24
91-57-6	2-Methylnaphthalene	470		210	38
91-20-3	Naphthalene	280		210	24
85-01-8	Phenanthrene	540		43	21
129-00-0	Pyrene	530		110	20

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\1C031513.b\1CC15014.D
 Lab Smp Id: 680-88118-A-25-A Client Smp ID: CV0166B-CS
 Inj Date : 15-MAR-2013 19:17
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-25-a
 Misc Info : 680-88118-A-25-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 14
 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	25.397	% 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		3.751	3.751	(1.000)	1212303	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	916617	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1713681	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	38593	1.49159	534.2340	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1959623	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1916684	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	24892	0.78870	282.4829	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	27884	1.32450	474.3874	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	22967	1.19784	429.0205	
5 Acenaphthylene	152		4.745	4.751	(0.982)	3623	0.09804	35.1135	
9 Fluorene	166		5.174	5.174	(1.071)	3818	0.13143	47.0739	
11 Phenanthrene	178		5.798	5.804	(1.002)	75051	1.51459	542.4696	
12 Anthracene	178		5.833	5.839	(1.008)	11176	0.23062	82.5979	
13 Carbazole	167		5.939	5.945	(1.026)	7294	0.16932	60.6430	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
15 Fluoranthene	202	6.639	6.639	(1.147)	90421	1.66627	596.7964	
16 Pyrene	202	6.804	6.810	(0.880)	78585	1.49225	534.4693	
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	52855	0.93452	334.7102	
19 Chrysene	228	7.745	7.751	(1.002)	78341	1.38409	495.7308	
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	72352	1.44444	517.3443(M)	
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	25900	0.50404	180.5291(QM)	
22 Benzo(a)pyrene	252	8.857	8.874	(0.993)	44329	0.91111	326.3257	
24 Indeno(1,2,3-cd)pyrene	276	10.092	10.109	(1.132)	29238	0.63881	228.7980(M)	
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	8909	0.19900	71.2741(MH)	
26 Benzo(g,h,i)perylene	276	10.433	10.462	(1.170)	32089	0.67021	240.0458	

QC Flag Legend

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

Data File: 1CC15014.D

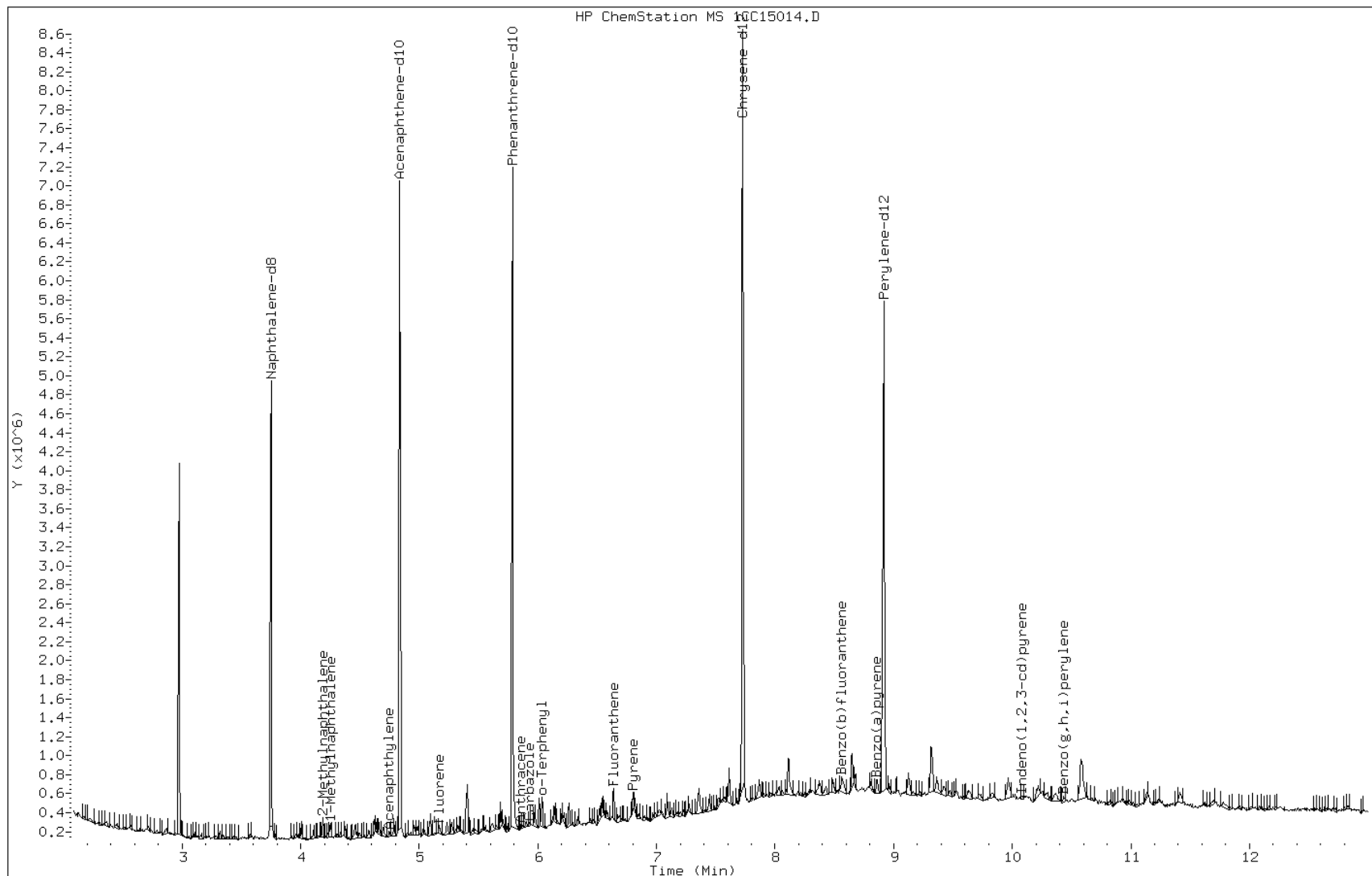
Date: 15-MAR-2013 19:17

Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

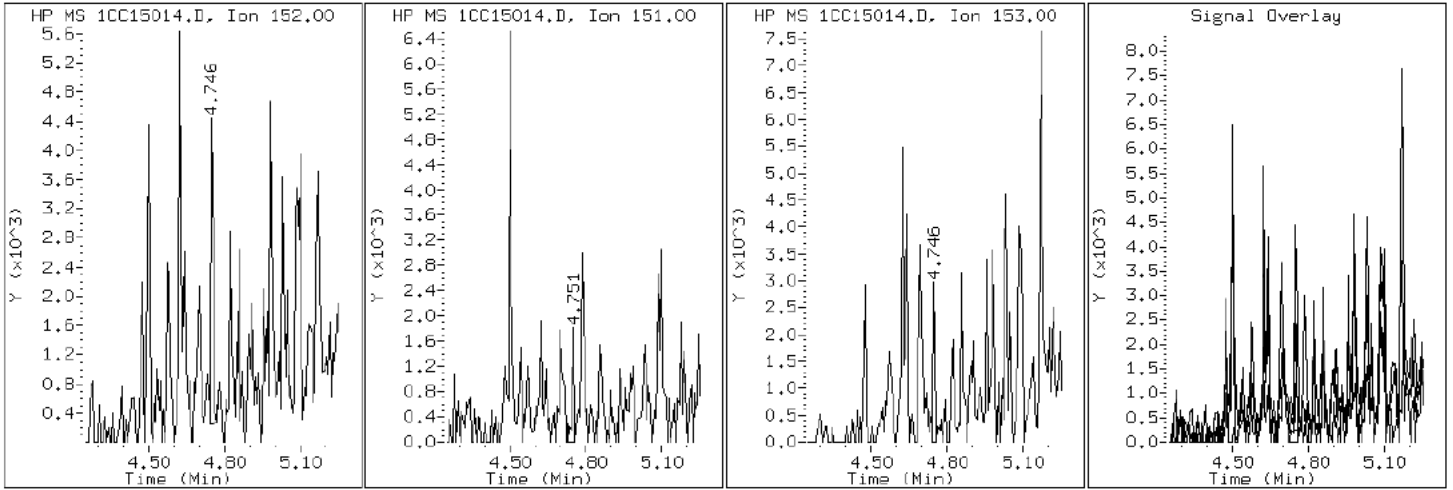
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

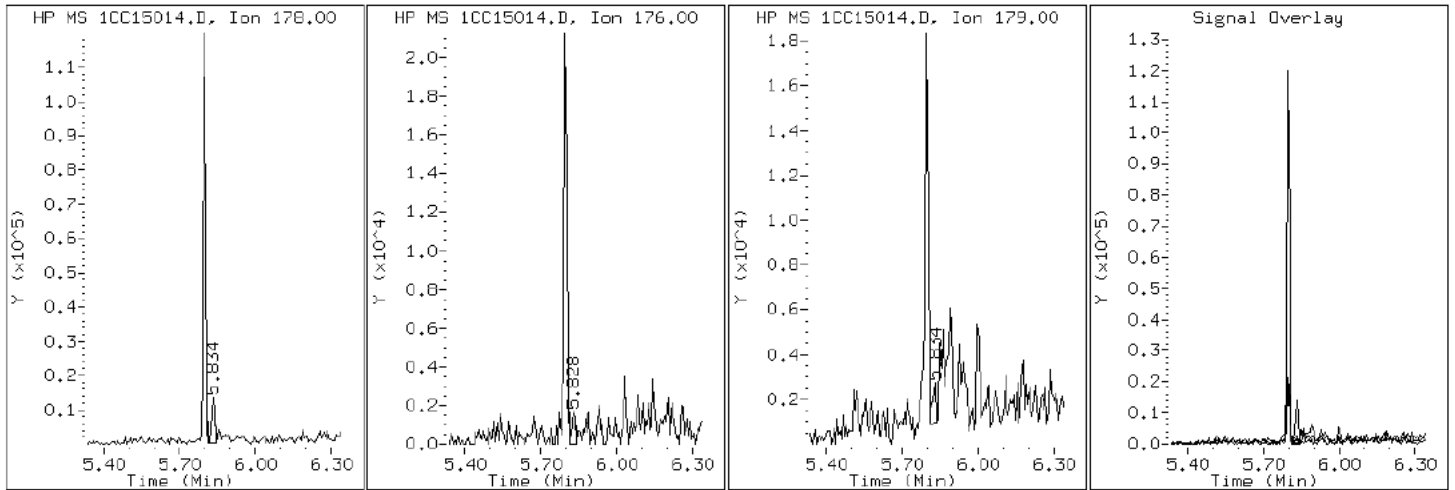
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

12 Anthracene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

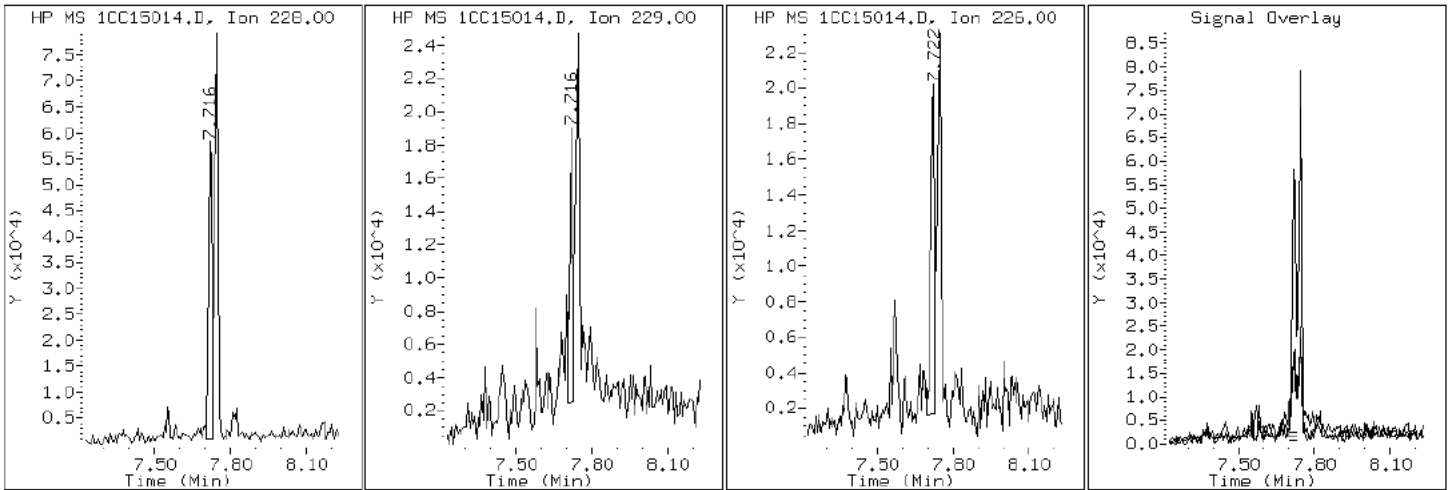
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

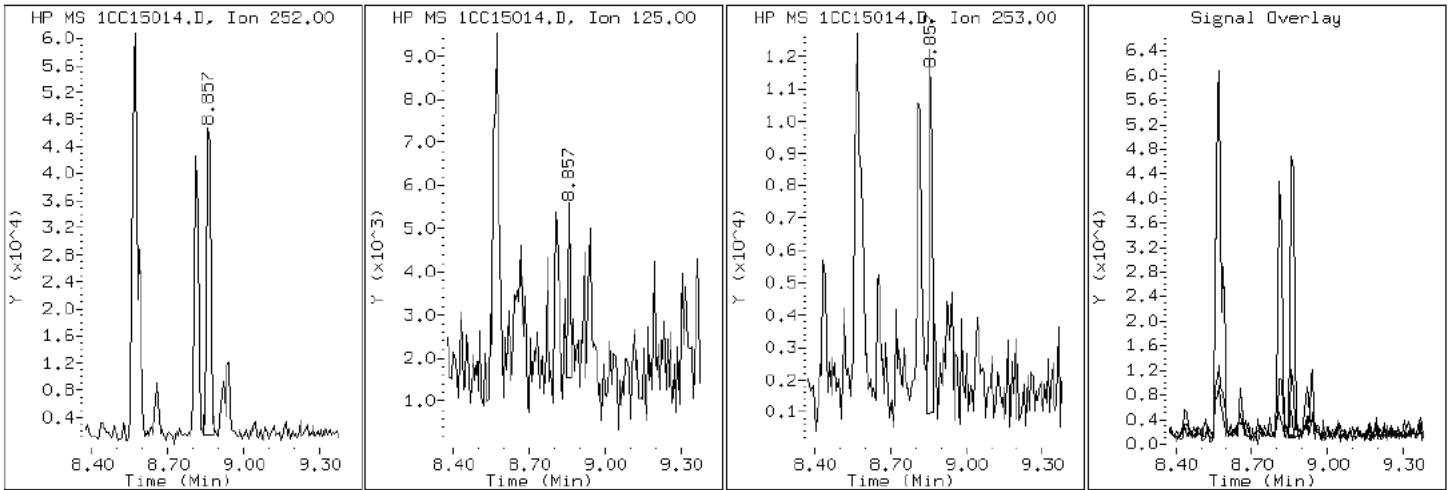
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

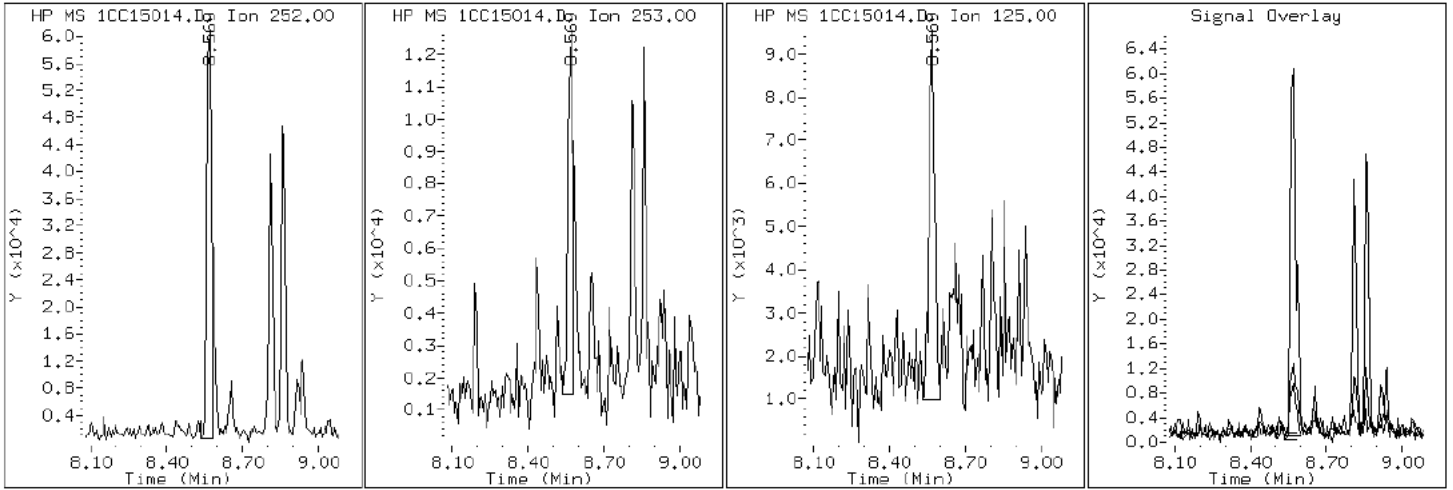
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

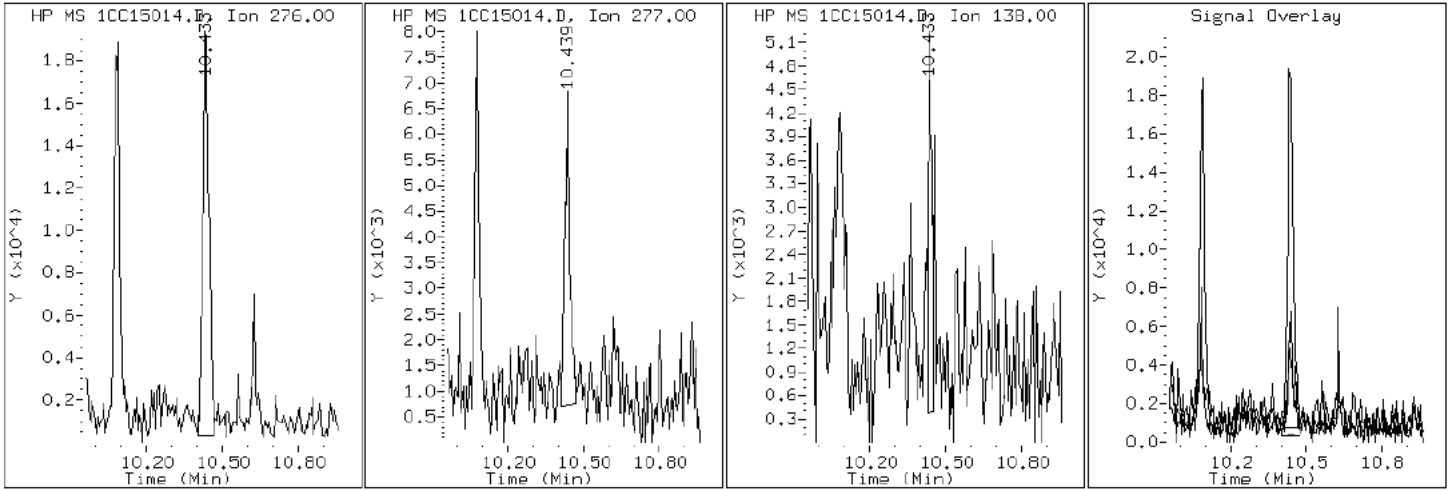
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

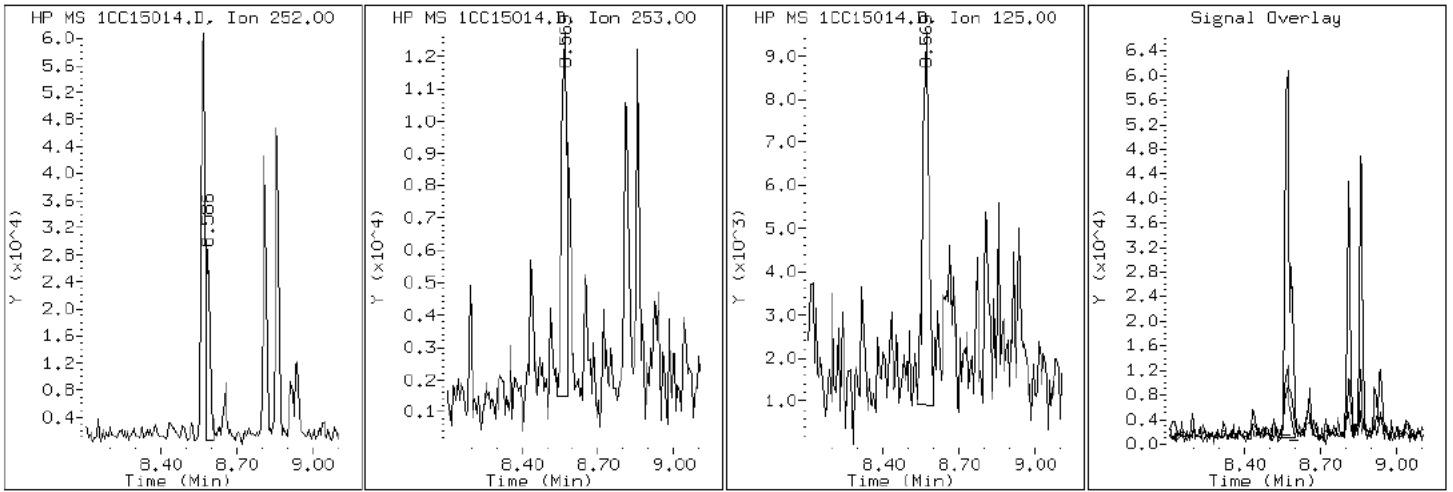
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

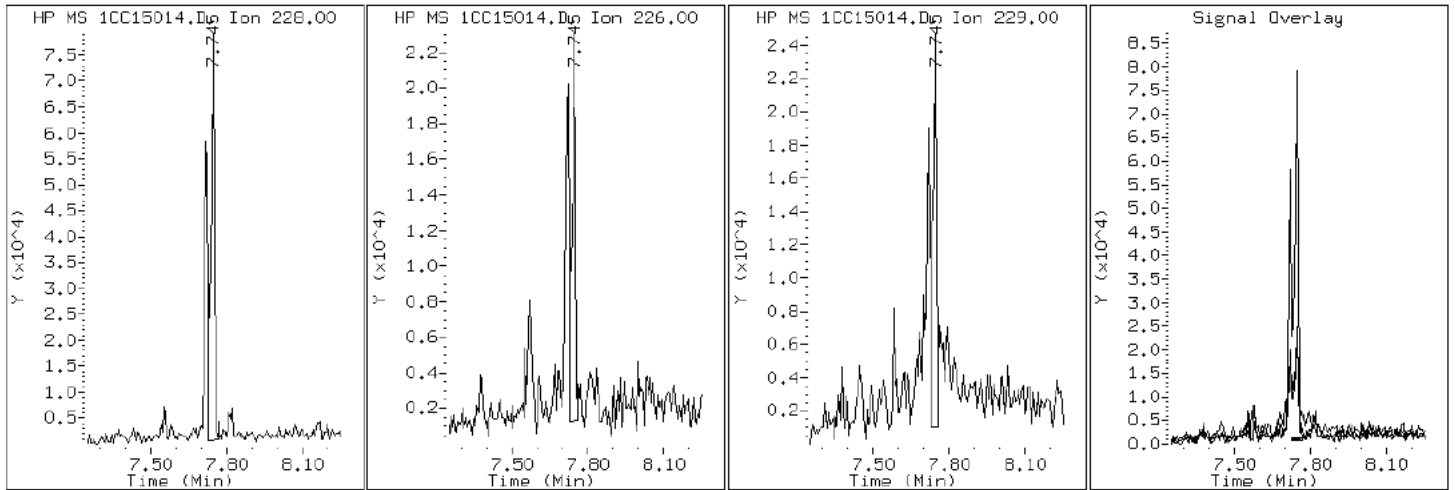
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

19 Chrysene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

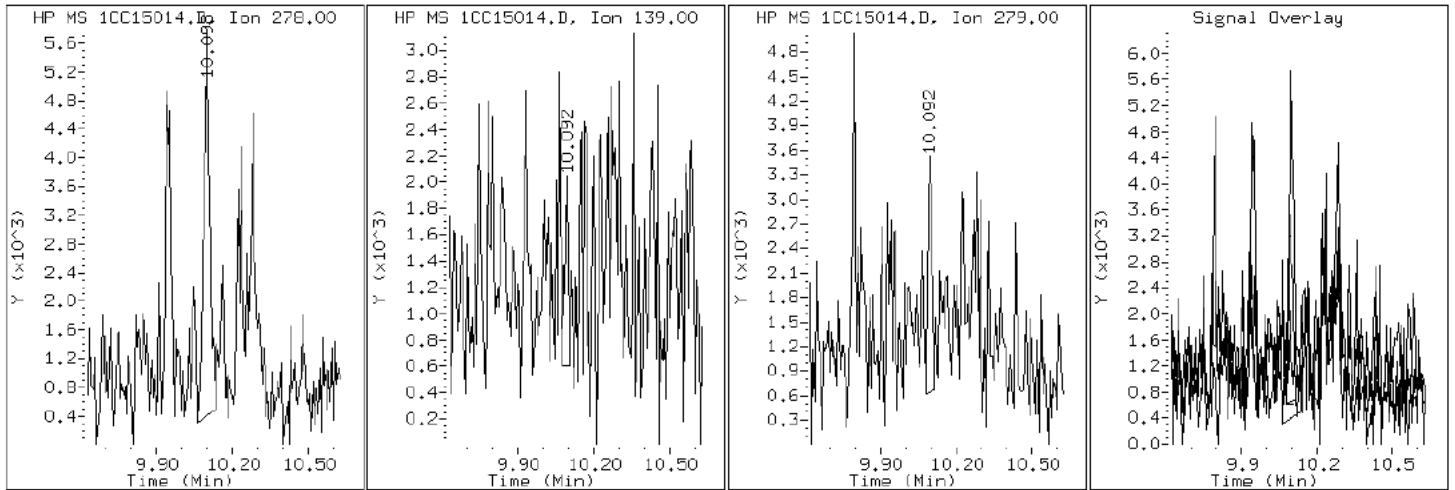
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

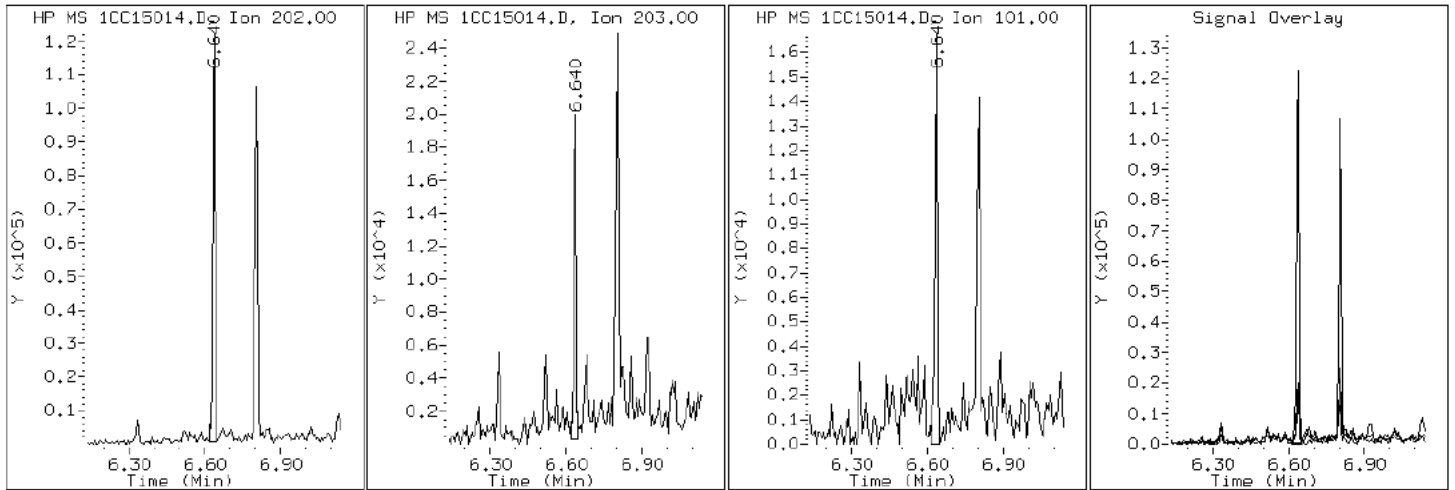
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

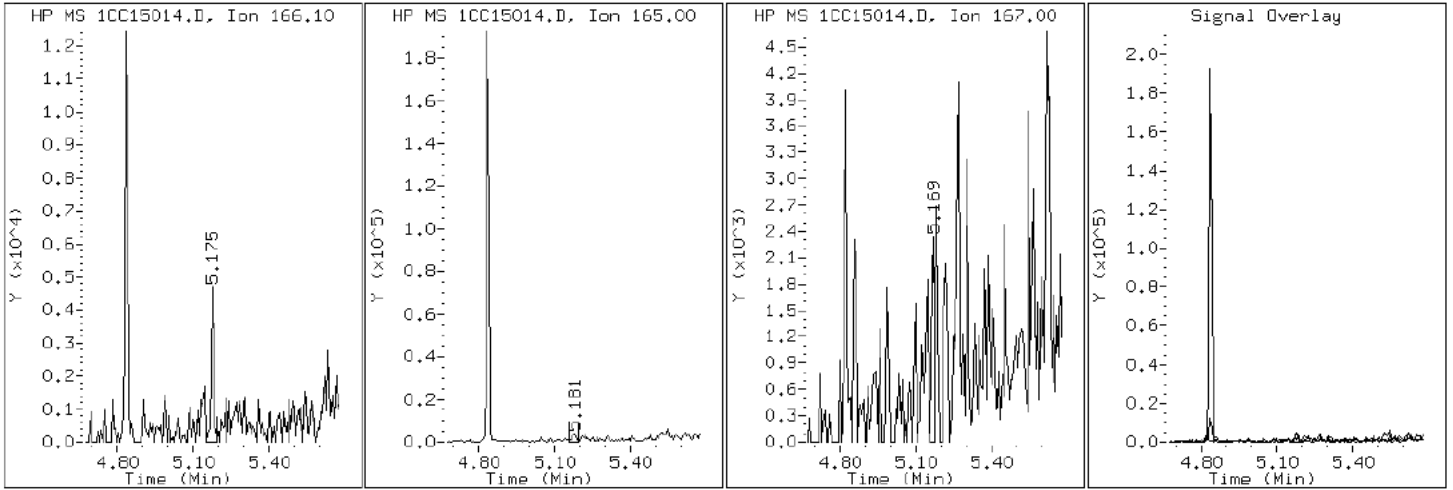
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

9 Fluorene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

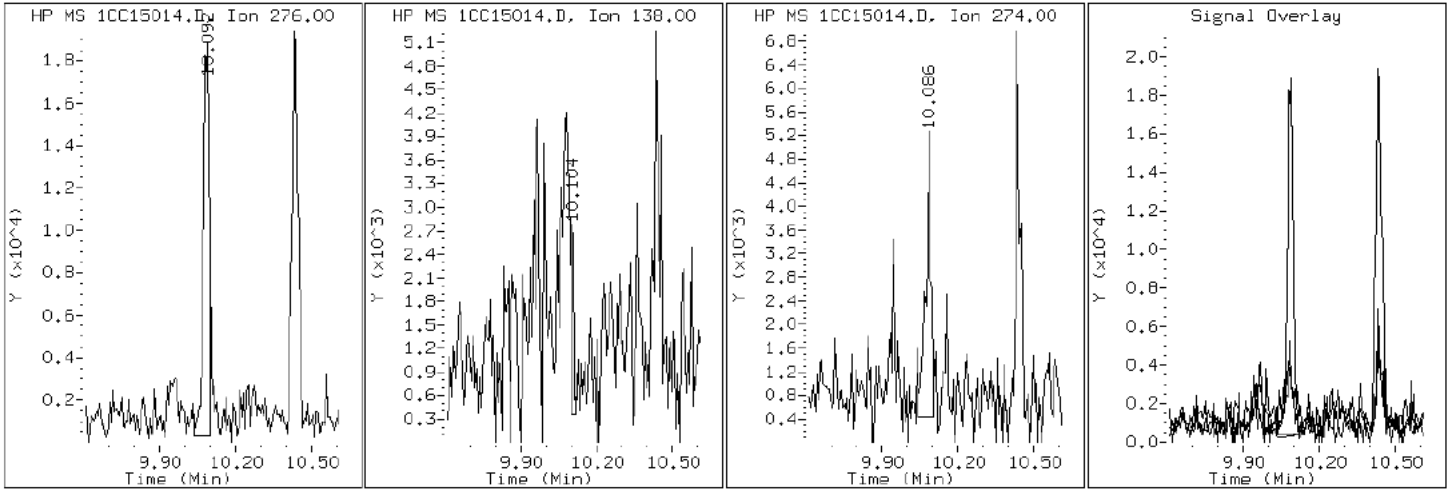
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

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



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

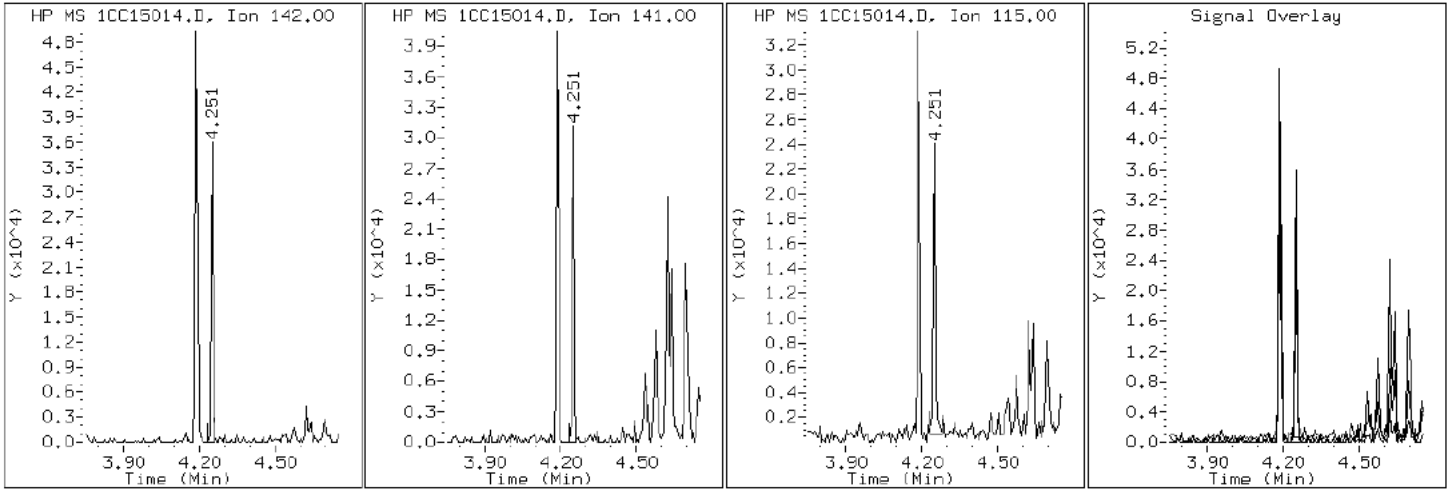
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

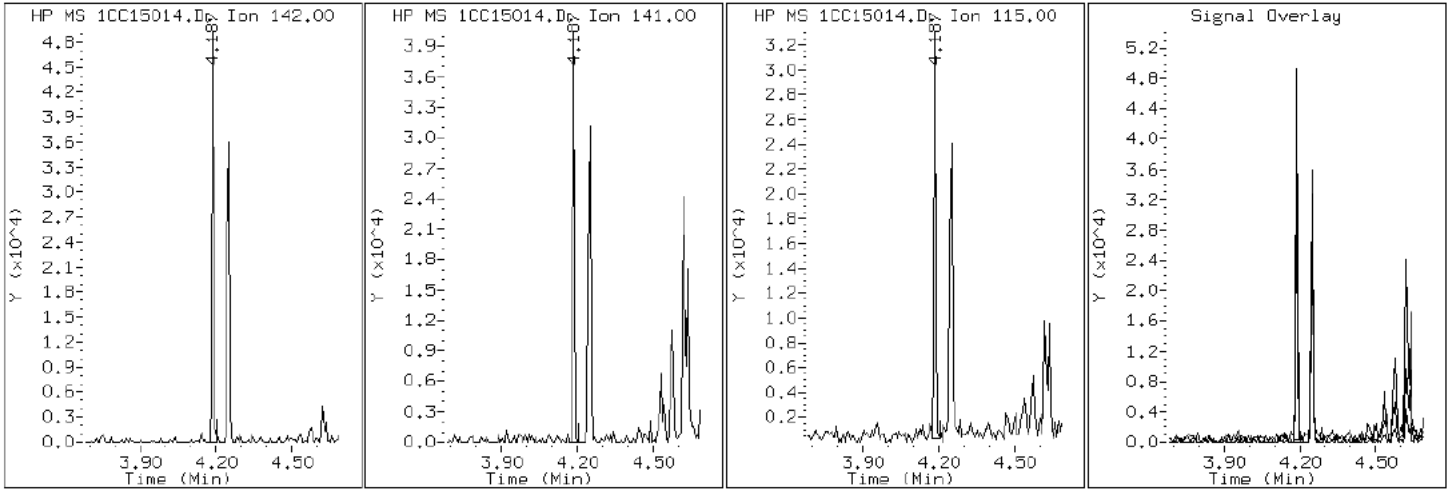
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

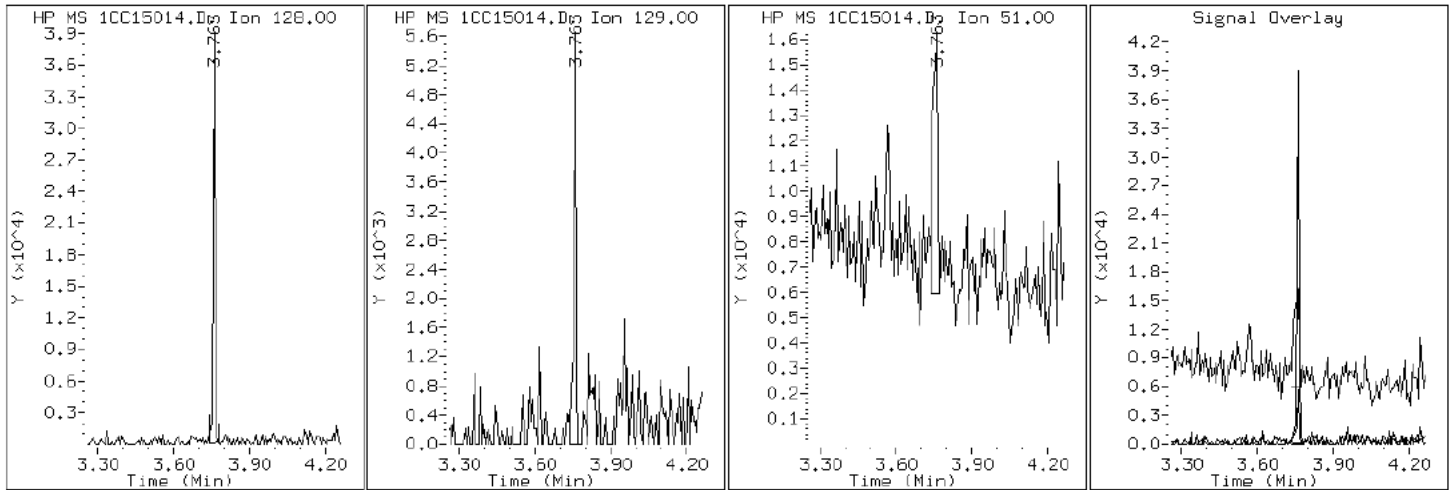
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

2 Naphthalene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

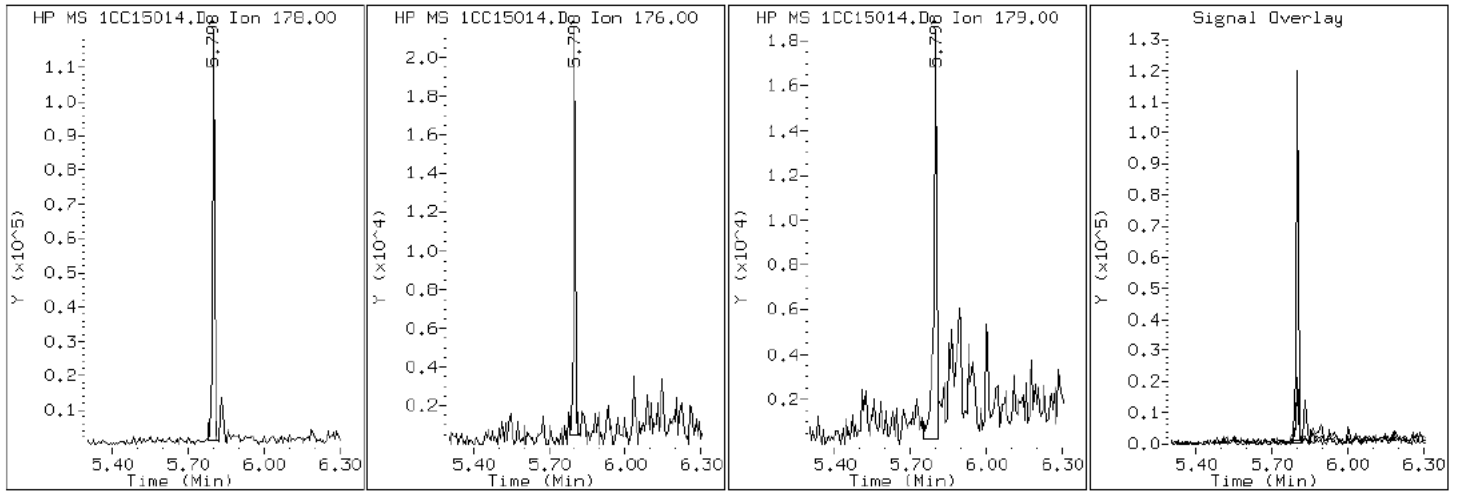
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15014.D

Date: 15-MAR-2013 19:17

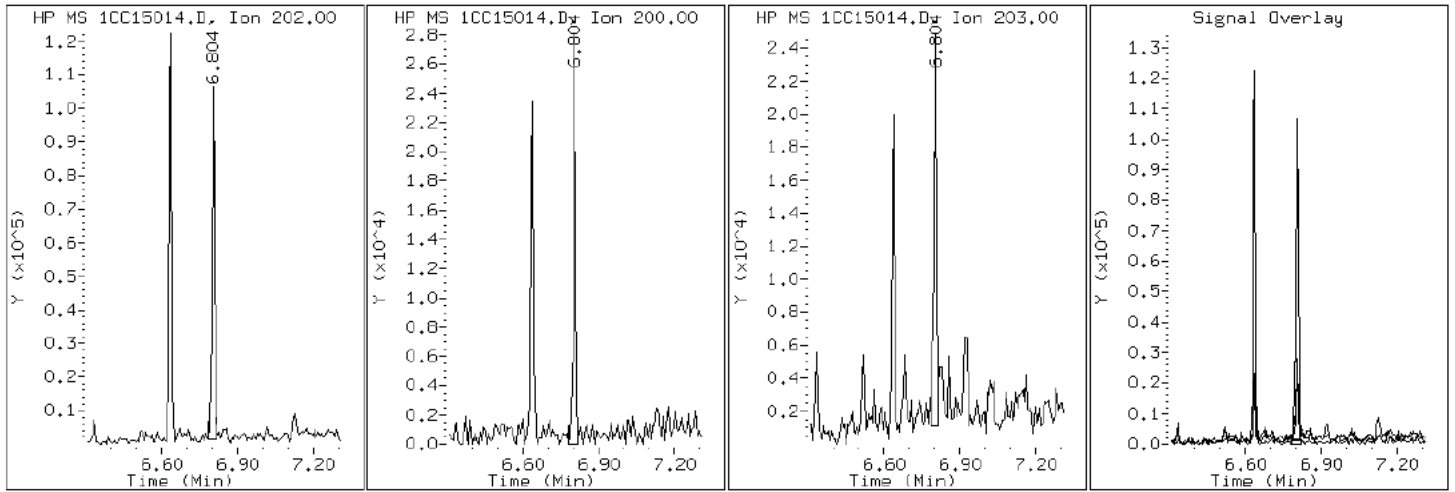
Client ID: CV0166B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-25-a

Operator: SCC

16 Pyrene

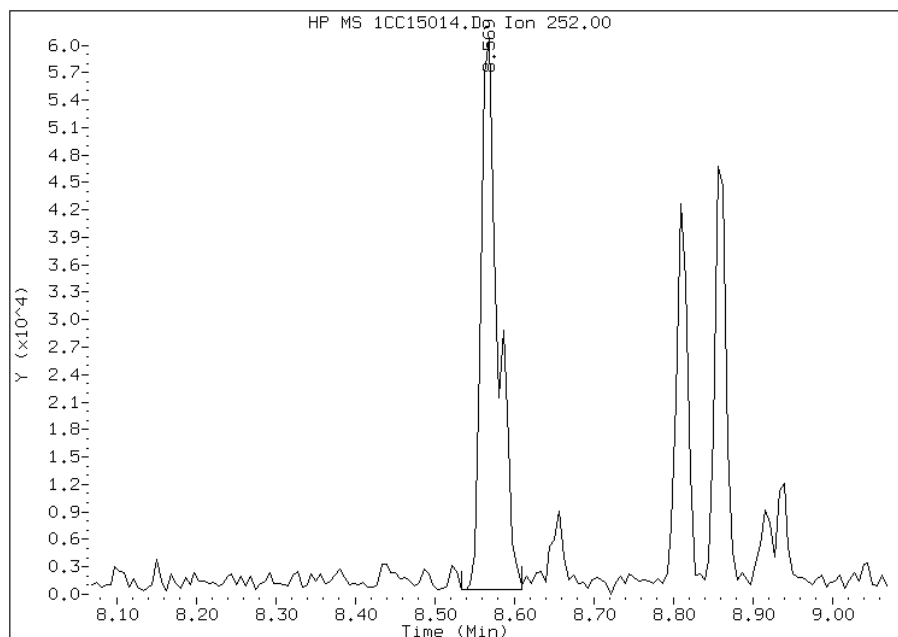


Manual Integration Report

Data File: 1CC15014.D
Inj. Date and Time: 15-MAR-2013 19:17
Instrument ID: BSMC5973.i
Client ID: CV0166B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

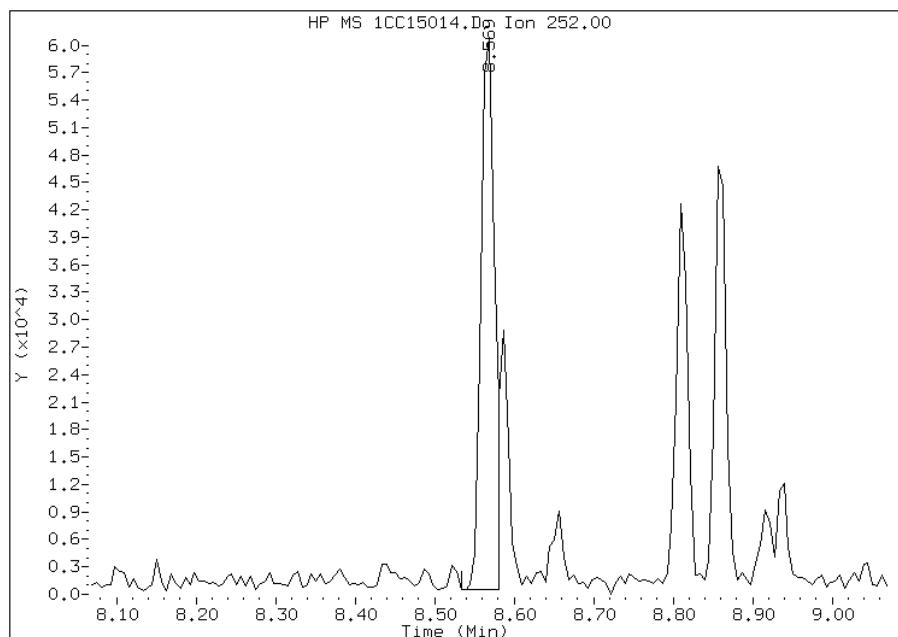
Processing Integration Results

RT: 8.57
Response: 91004
Amount: 2
Conc: 651



Manual Integration Results

RT: 8.57
Response: 72352
Amount: 1
Conc: 517



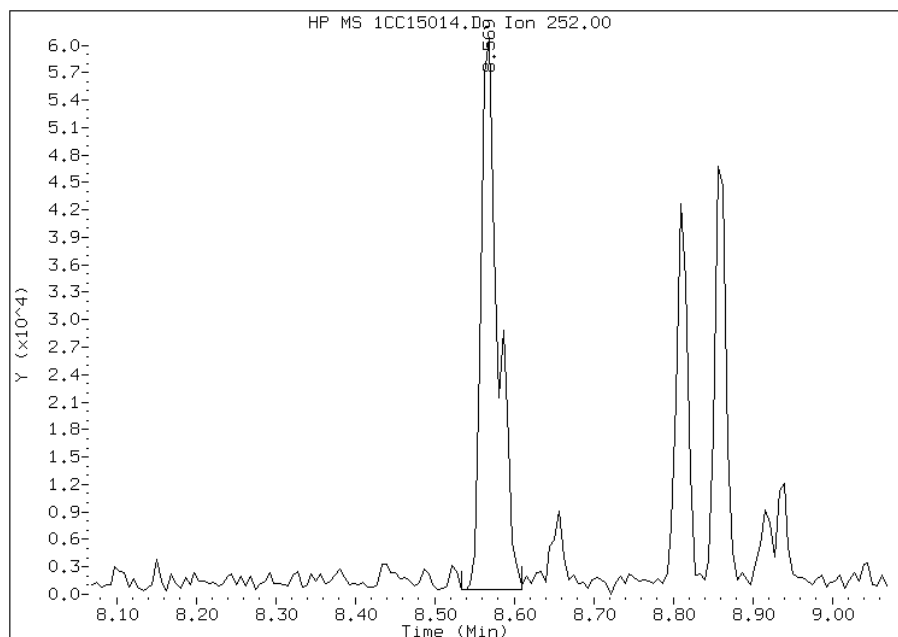
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15014.D
Inj. Date and Time: 15-MAR-2013 19:17
Instrument ID: BSMC5973.i
Client ID: CV0166B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

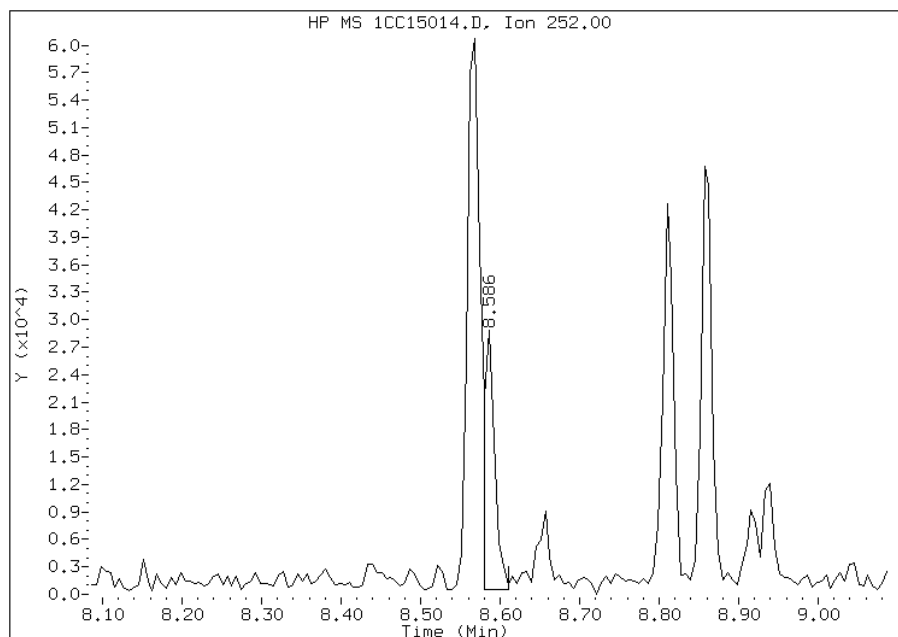
Processing Integration Results

RT: 8.57
Response: 91004
Amount: 2
Conc: 634



Manual Integration Results

RT: 8.59
Response: 25900
Amount: 1
Conc: 181



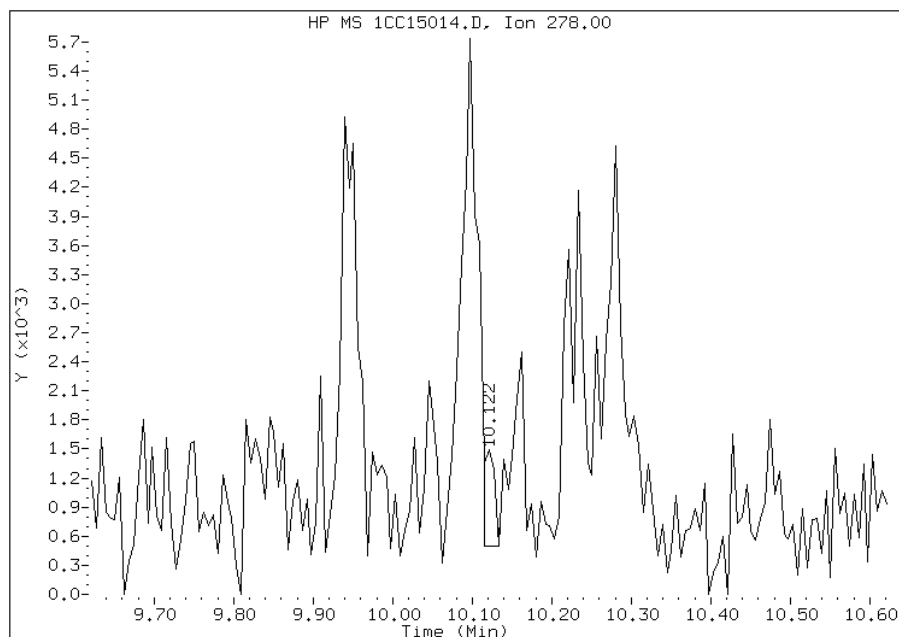
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15014.D
Inj. Date and Time: 15-MAR-2013 19:17
Instrument ID: BSMC5973.i
Client ID: CV0166B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

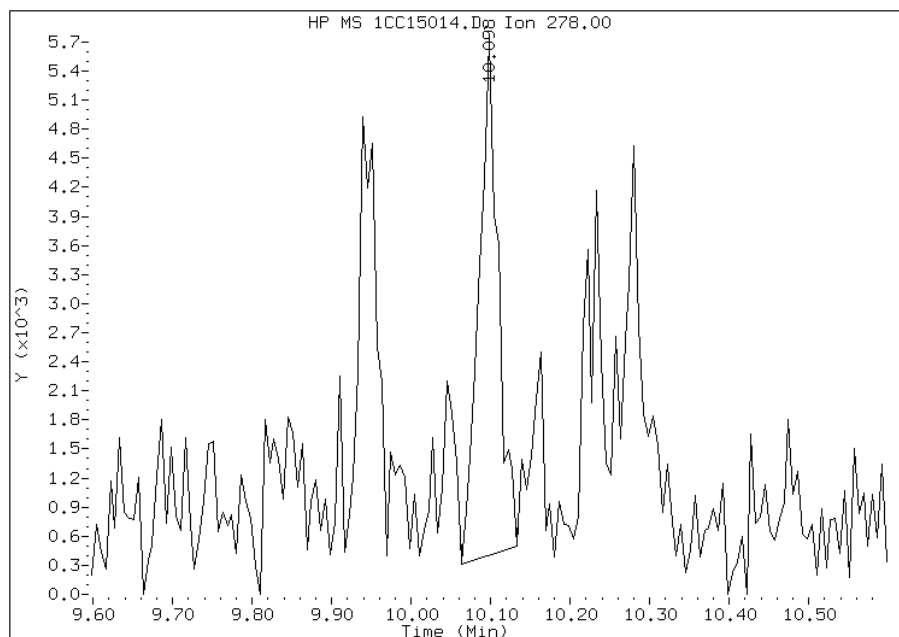
Processing Integration Results

RT: 10.12
Response: 933
Amount: 0
Conc: 7



Manual Integration Results

RT: 10.10
Response: 8909
Amount: 0
Conc: 71



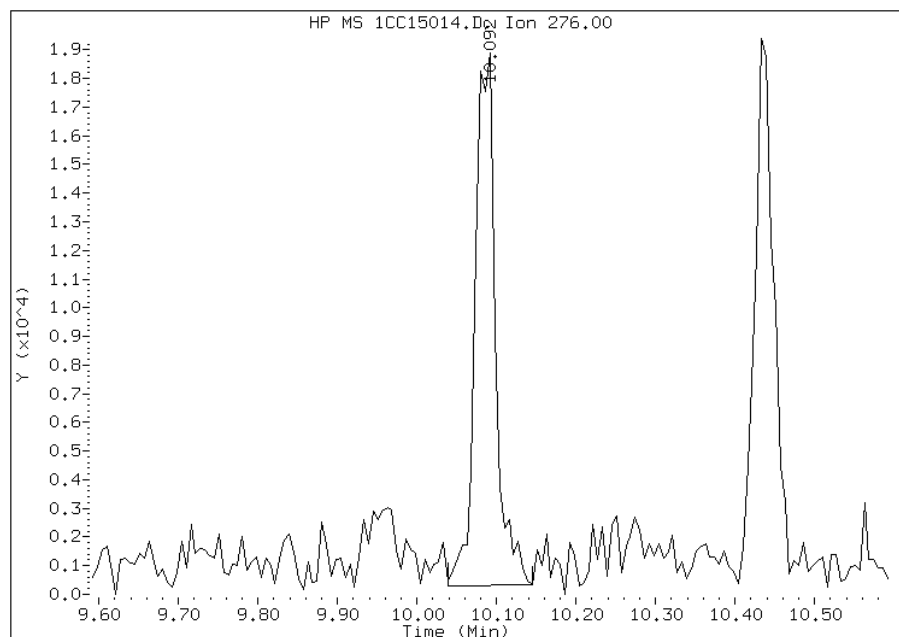
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15014.D
Inj. Date and Time: 15-MAR-2013 19:17
Instrument ID: BSMC5973.i
Client ID: CV0166B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

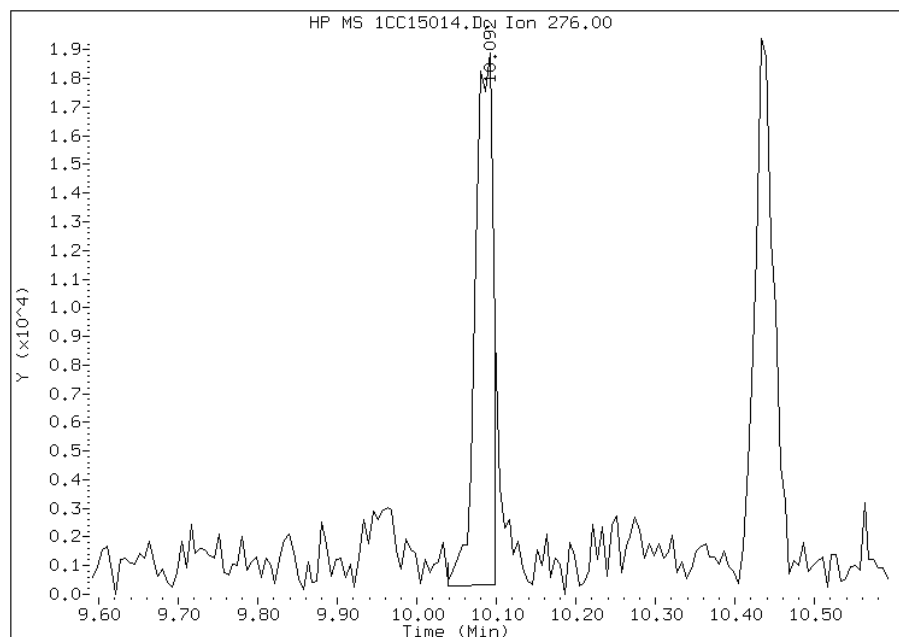
Processing Integration Results

RT: 10.09
Response: 33099
Amount: 1
Conc: 259



Manual Integration Results

RT: 10.09
Response: 29238
Amount: 1
Conc: 229



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0350A-CS Lab Sample ID: 680-88118-26
 Matrix: Solid Lab File ID: 1CC15015.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.15(g) Date Analyzed: 03/15/2013 19:36
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	64	J	130	26
208-96-8	Acenaphthylene	13	J	52	6.4
120-12-7	Anthracene	98		11	5.4
56-55-3	Benzo[a]anthracene	440		10	5.0
50-32-8	Benzo[a]pyrene	370		13	6.7
205-99-2	Benzo[b]fluoranthene	580		16	7.9
191-24-2	Benzo[g,h,i]perylene	220		26	5.7
207-08-9	Benzo[k]fluoranthene	250		10	4.6
218-01-9	Chrysene	420		12	5.8
53-70-3	Dibenz(a,h)anthracene	68		26	5.3
206-44-0	Fluoranthene	750		26	5.2
86-73-7	Fluorene	51		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	160		26	9.1
90-12-0	1-Methylnaphthalene	87		52	5.7
91-57-6	2-Methylnaphthalene	130		52	9.1
91-20-3	Naphthalene	79		52	5.7
85-01-8	Phenanthrene	540		10	5.0
129-00-0	Pyrene	670		26	4.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15015.D
 Lab Smp Id: 680-88118-A-26-A Client Smp ID: CV0350A-CS
 Inj Date : 15-MAR-2013 19:36
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-26-a
 Misc Info : 680-88118-A-26-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	23.136	% 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		3.751	3.751	(1.000)	1250795	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	954865	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1732247	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	146062	5.58470	479.5816	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1843110	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1801652	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	29875	0.91745	78.7857	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	31805	1.46426	125.7420	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	19970	1.00948	86.6880	
5 Acenaphthylene	152		4.745	4.751	(0.982)	5655	0.14689	12.6144	
7 Acenaphthene	154		4.857	4.857	(1.005)	17816	0.74456	63.9387	
9 Fluorene	166		5.174	5.174	(1.071)	18020	0.59548	51.1361	
11 Phenanthrene	178		5.798	5.804	(1.002)	313189	6.25266	536.9424	
12 Anthracene	178		5.833	5.839	(1.008)	56075	1.14470	98.3002	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.945	(1.026)	33833	0.77695	66.7203
15 Fluoranthene	202	6.639	6.639	(1.147)	477800	8.71049	748.0064
16 Pyrene	202	6.804	6.810	(0.880)	386184	7.79682	669.5465
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	270824	5.09109	437.1933
19 Chrysene	228	7.745	7.751	(1.002)	258191	4.84996	416.4869
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	317432	6.74184	578.9507
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	138932	2.87640	247.0083
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	196034	4.28641	368.0921
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109	(1.131)	80425	1.86937	160.5304(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.127	(1.132)	33531	0.79680	68.4244
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	115261	2.56106	219.9287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC15015.D

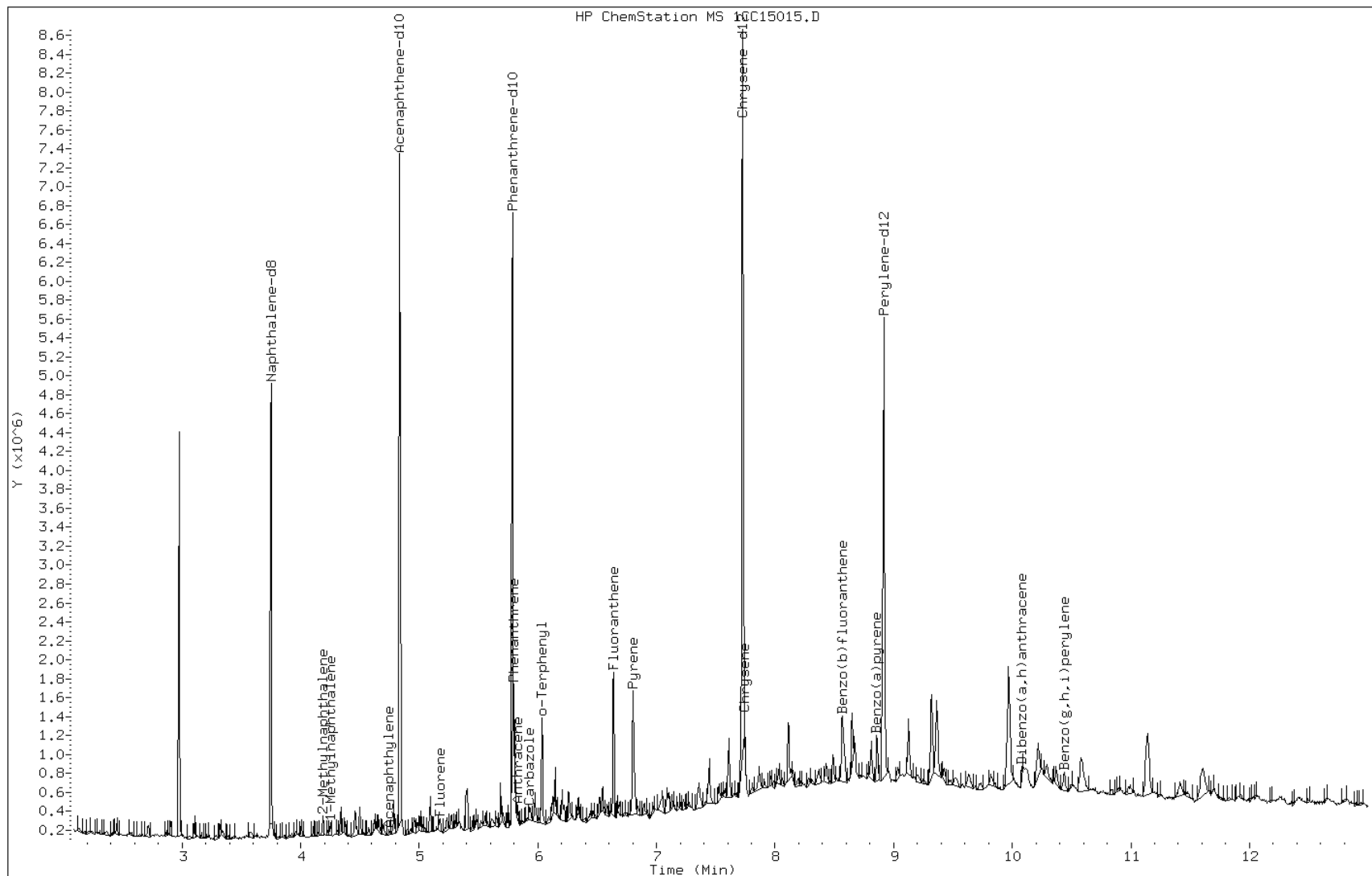
Date: 15-MAR-2013 19:36

Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

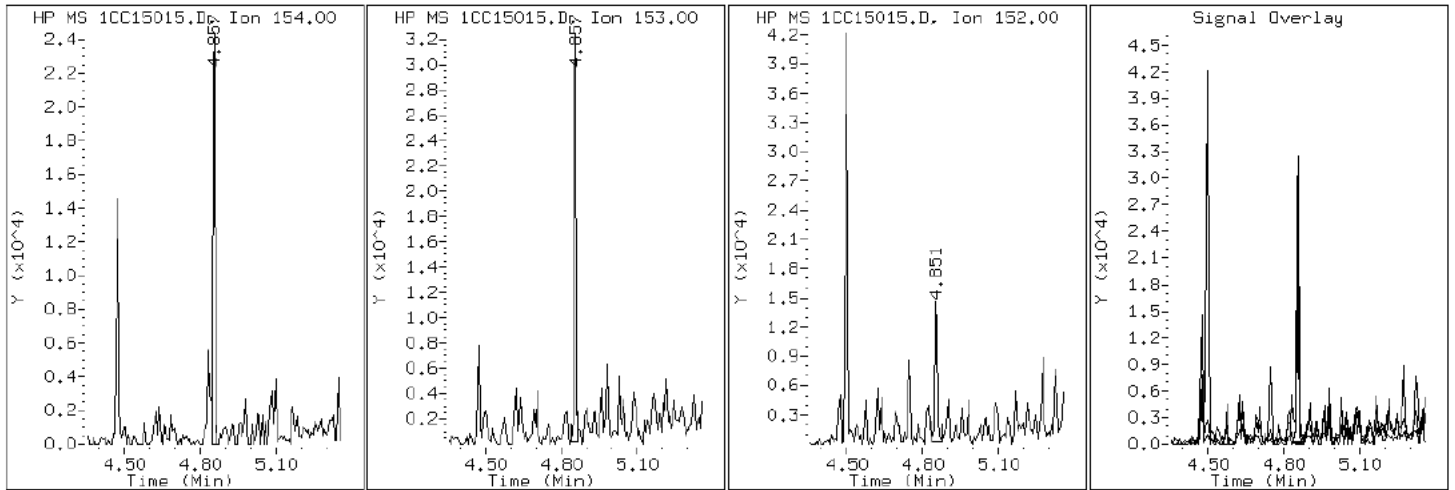
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

7 Acenaphthene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

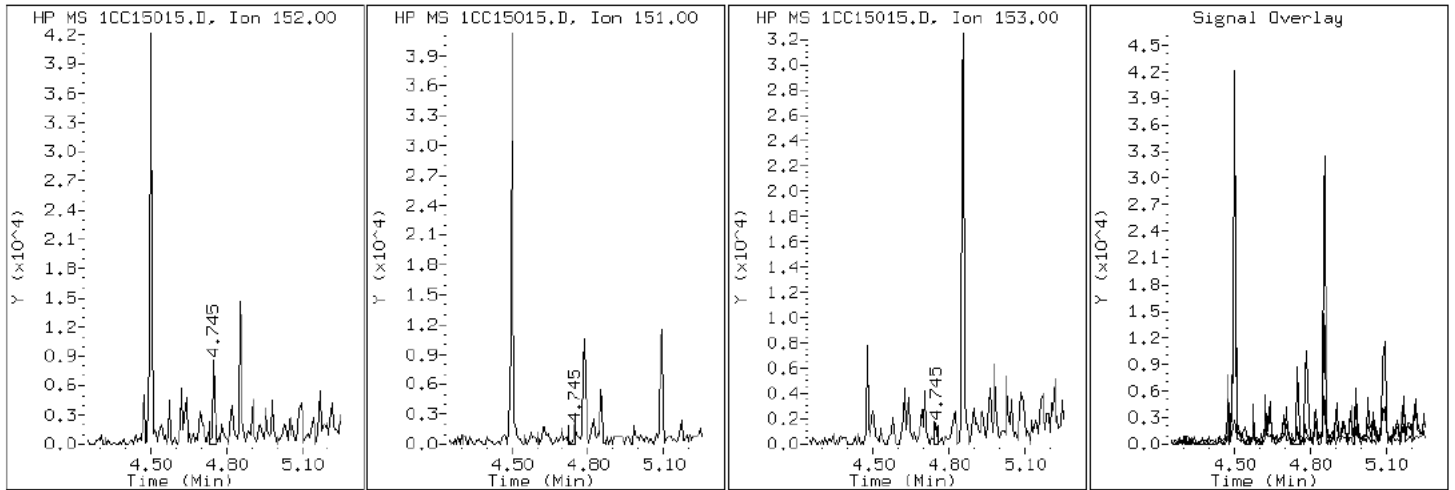
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

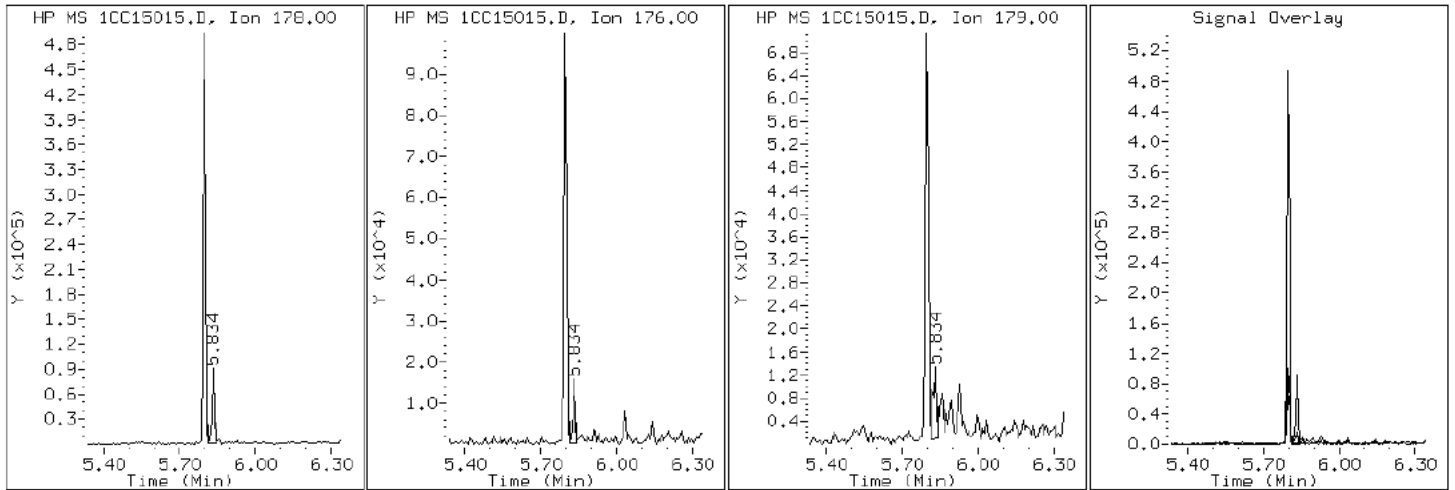
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

12 Anthracene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

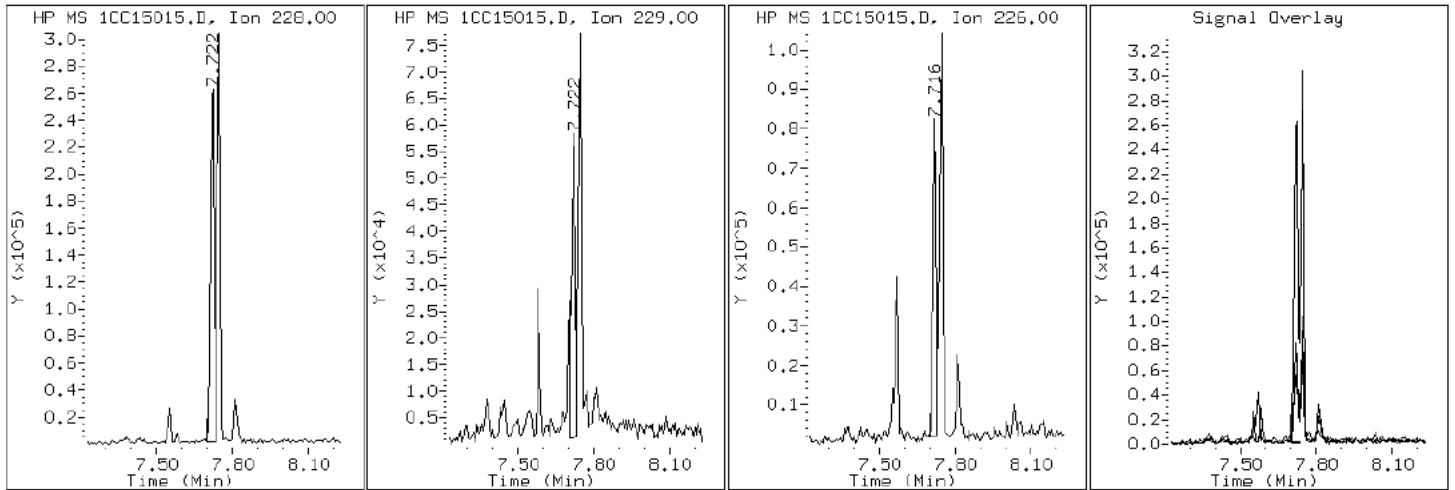
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

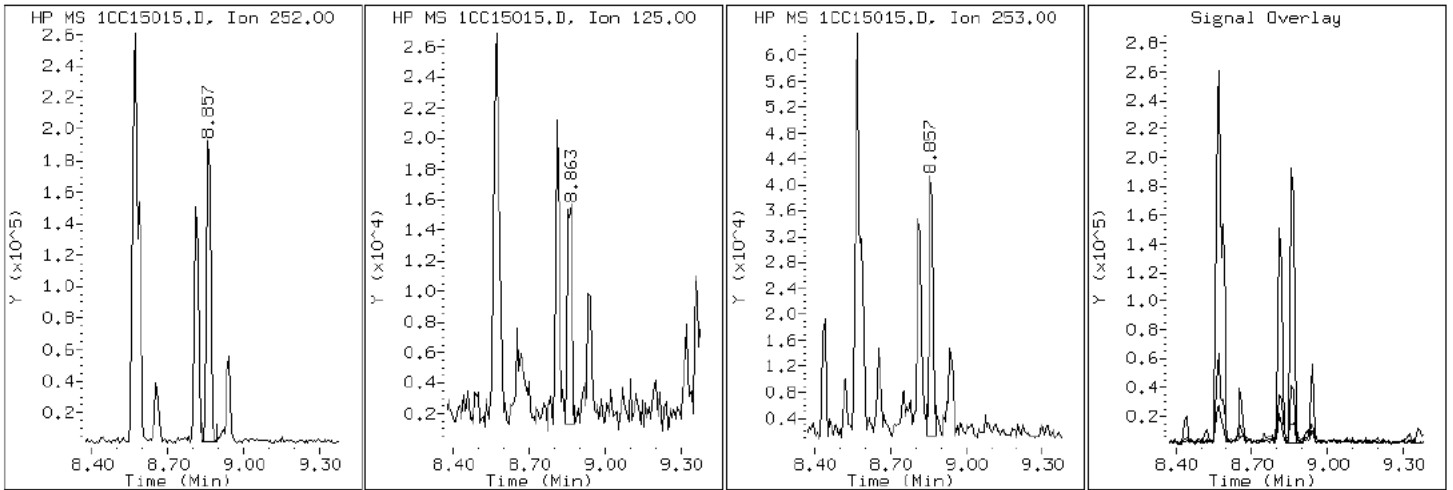
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

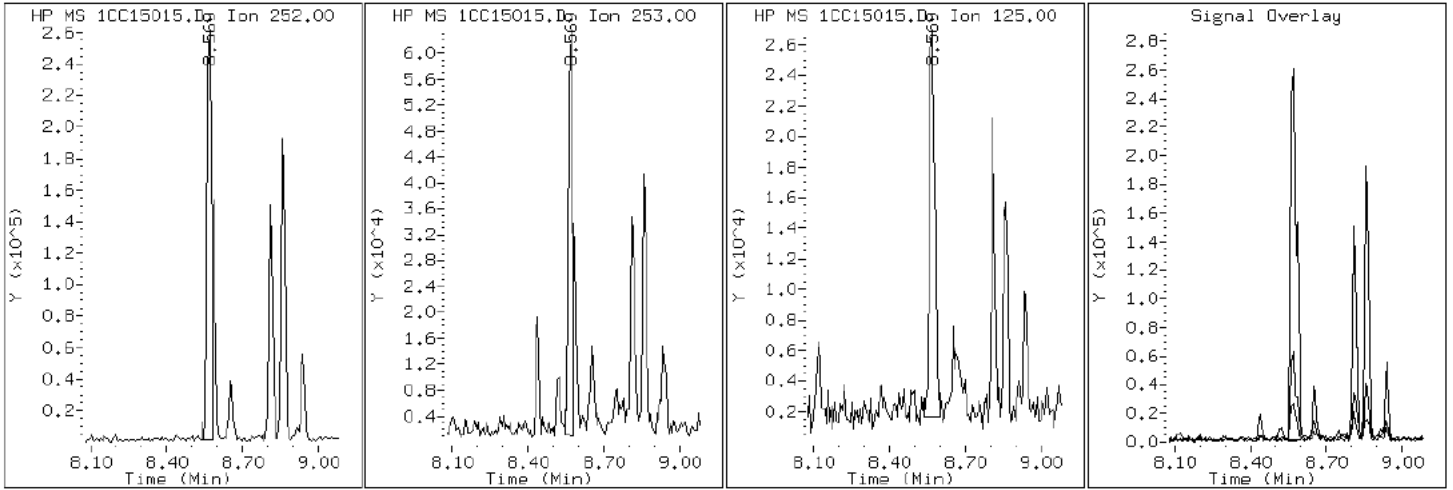
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

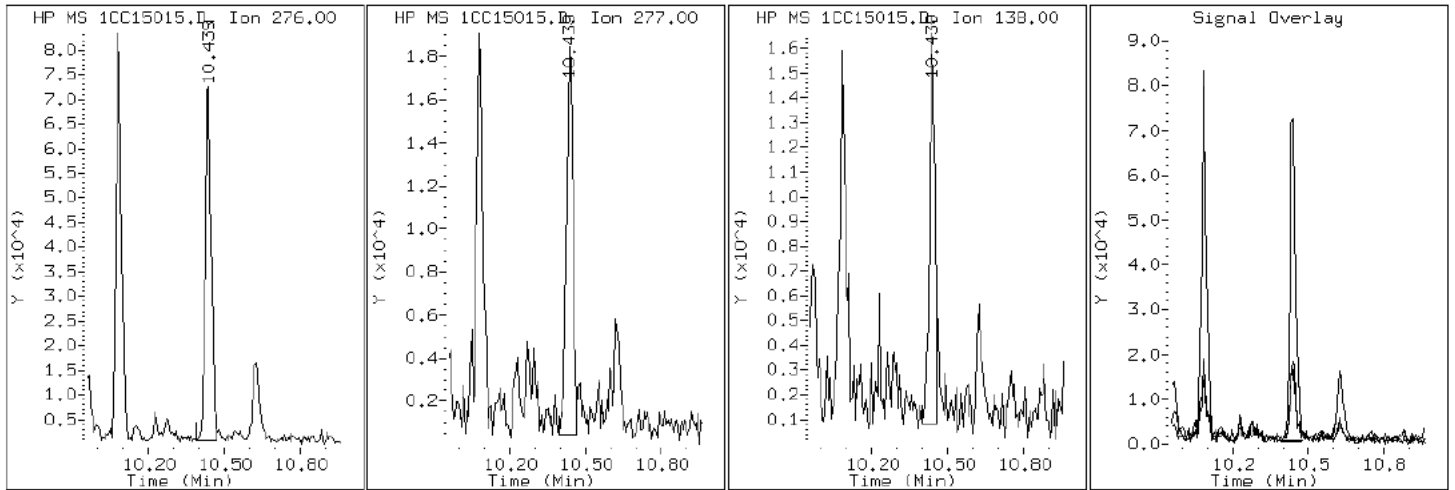
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

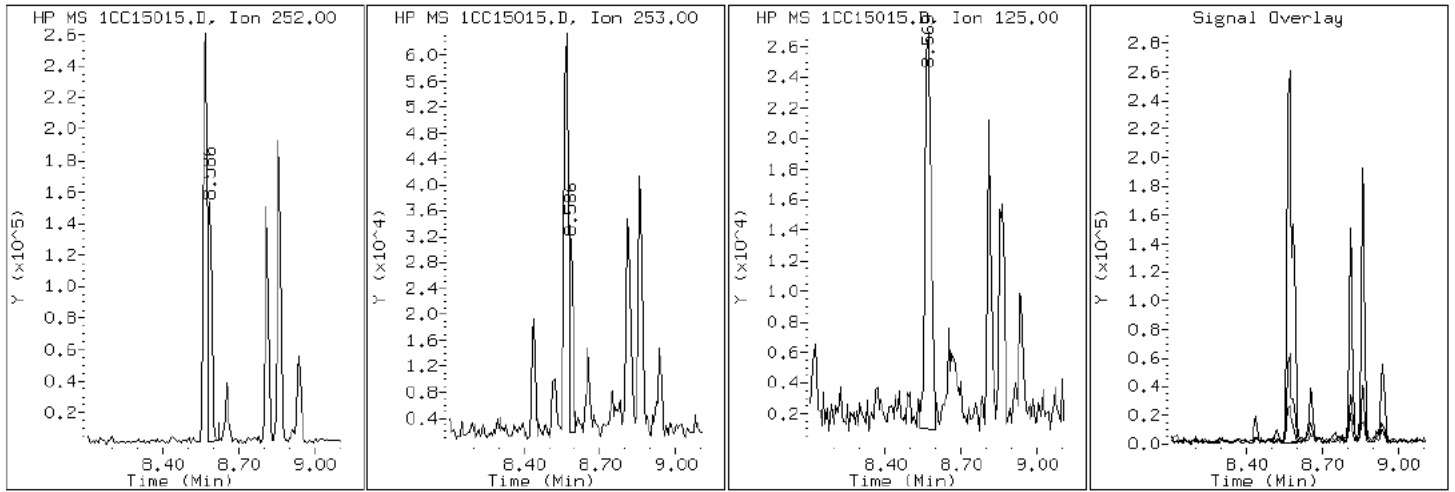
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

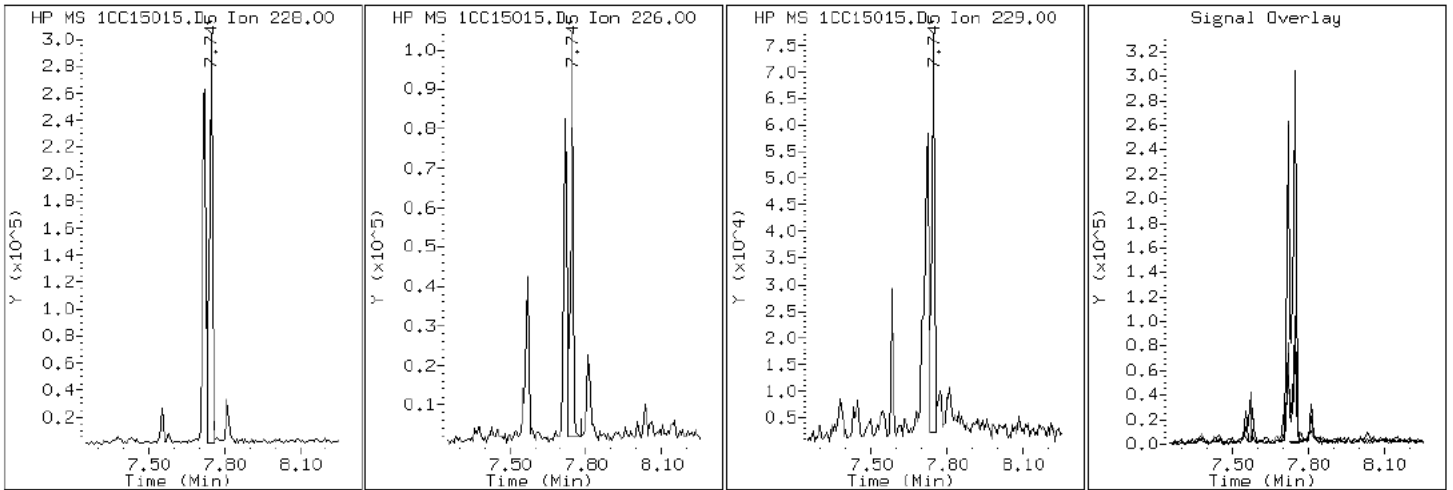
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

19 Chrysene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

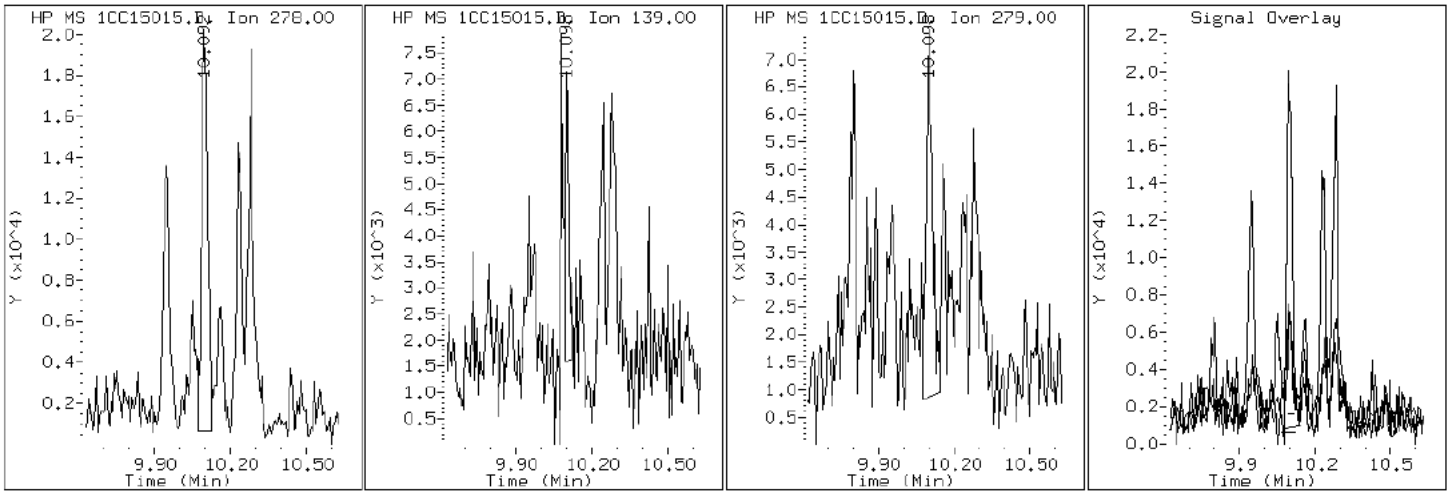
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

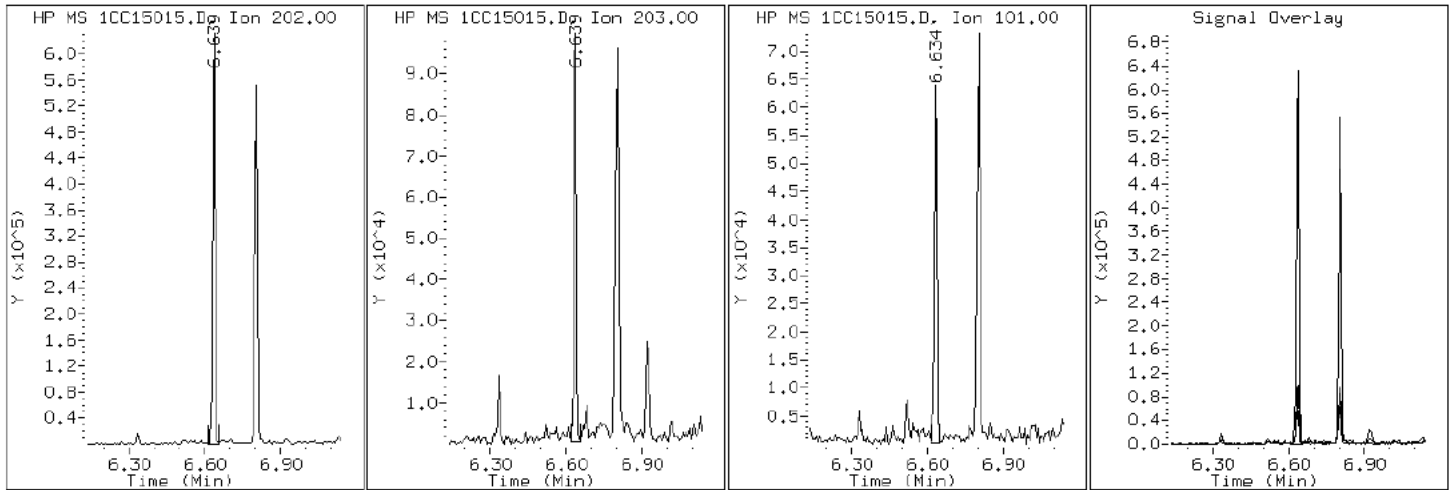
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

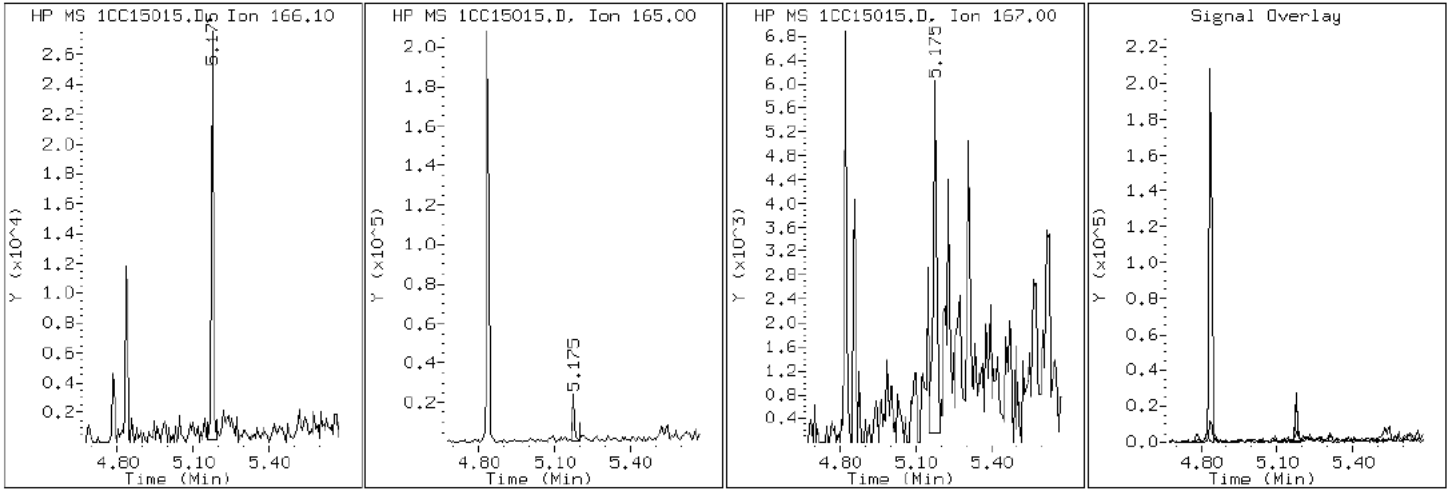
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

9 Fluorene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

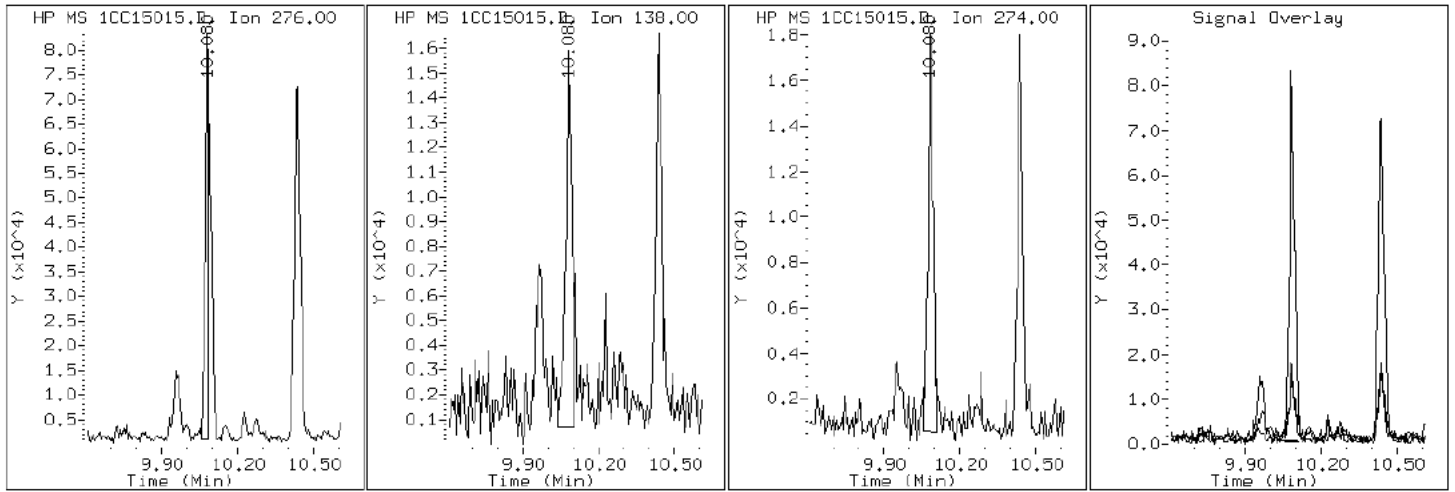
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

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



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

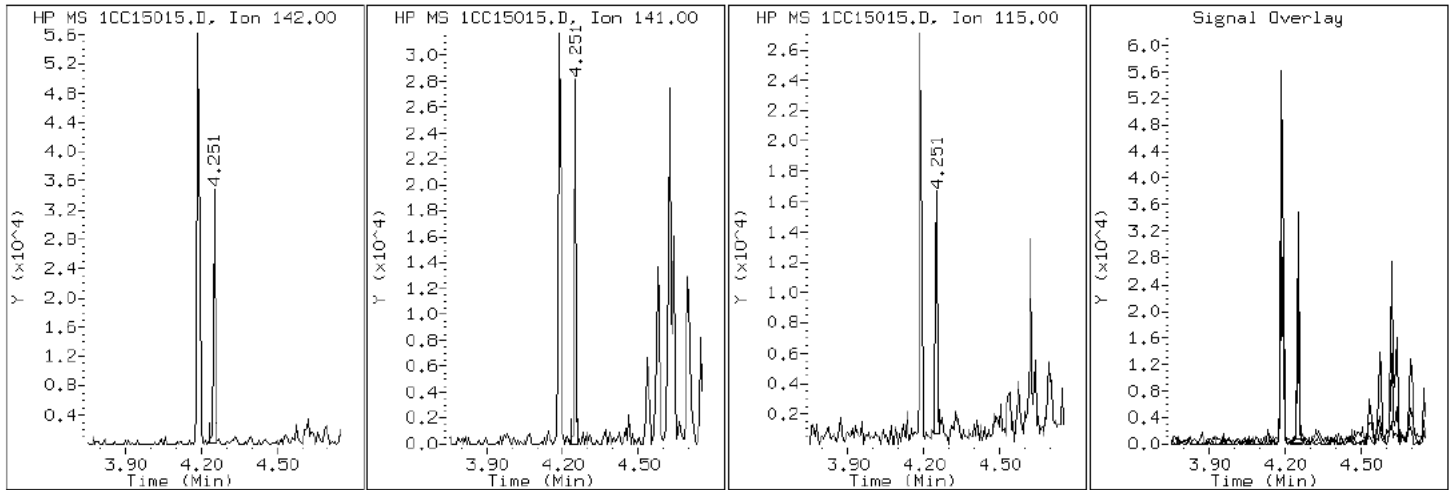
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

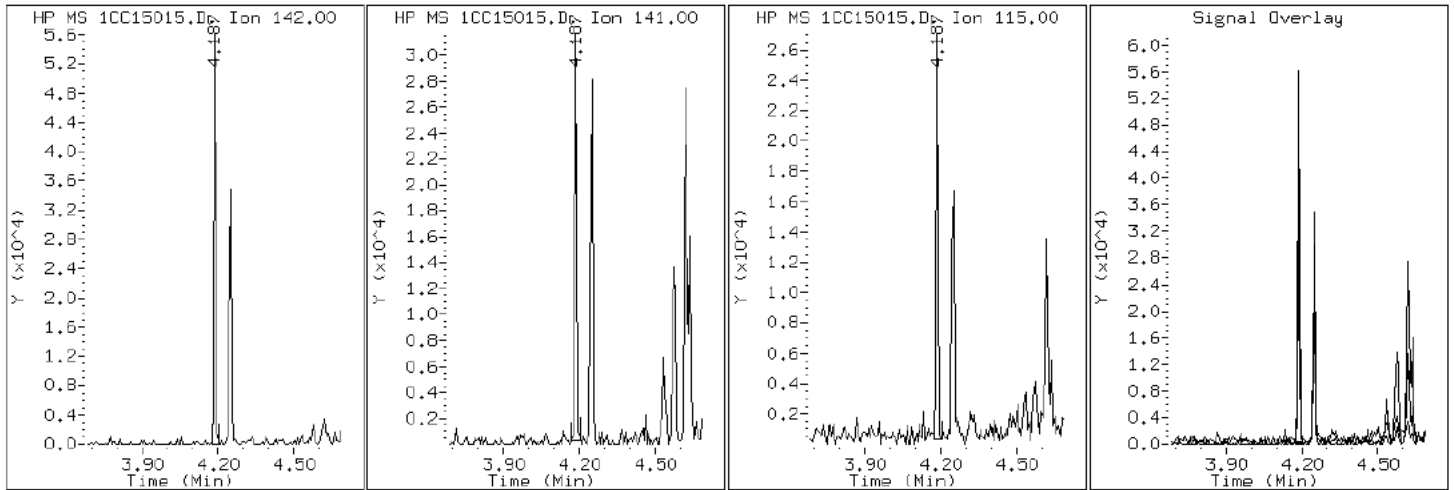
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

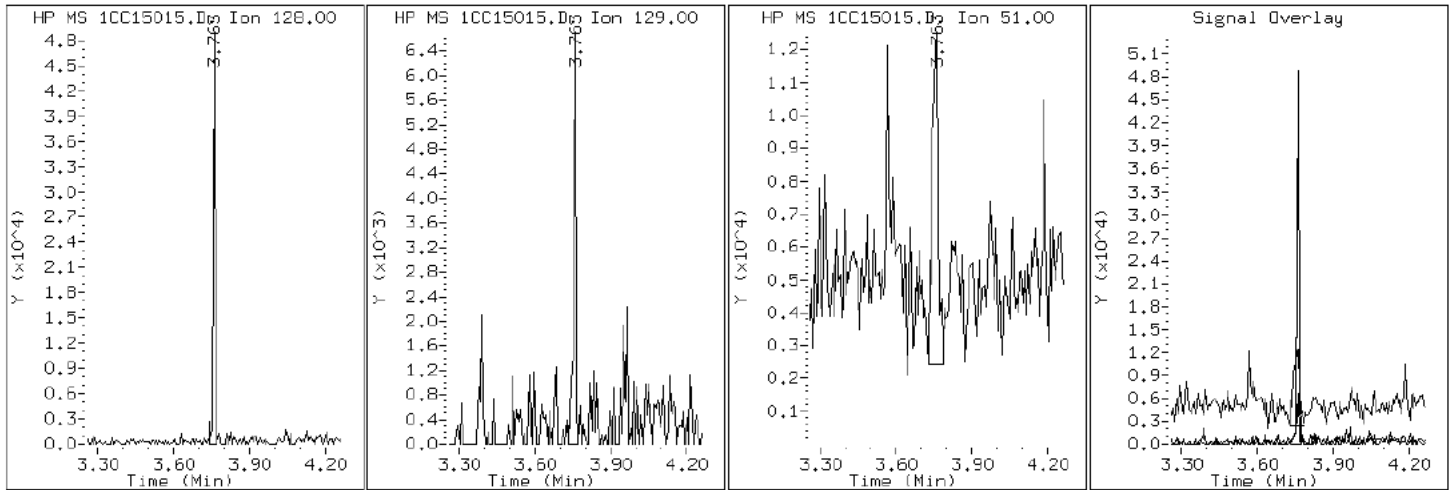
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

2 Naphthalene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

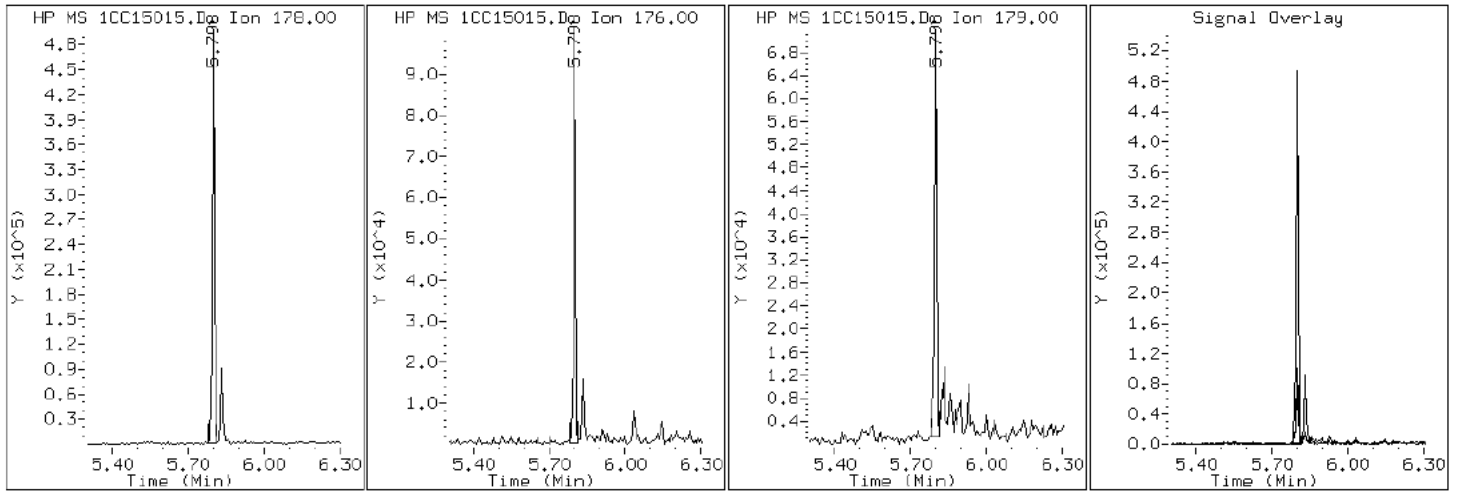
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15015.D

Date: 15-MAR-2013 19:36

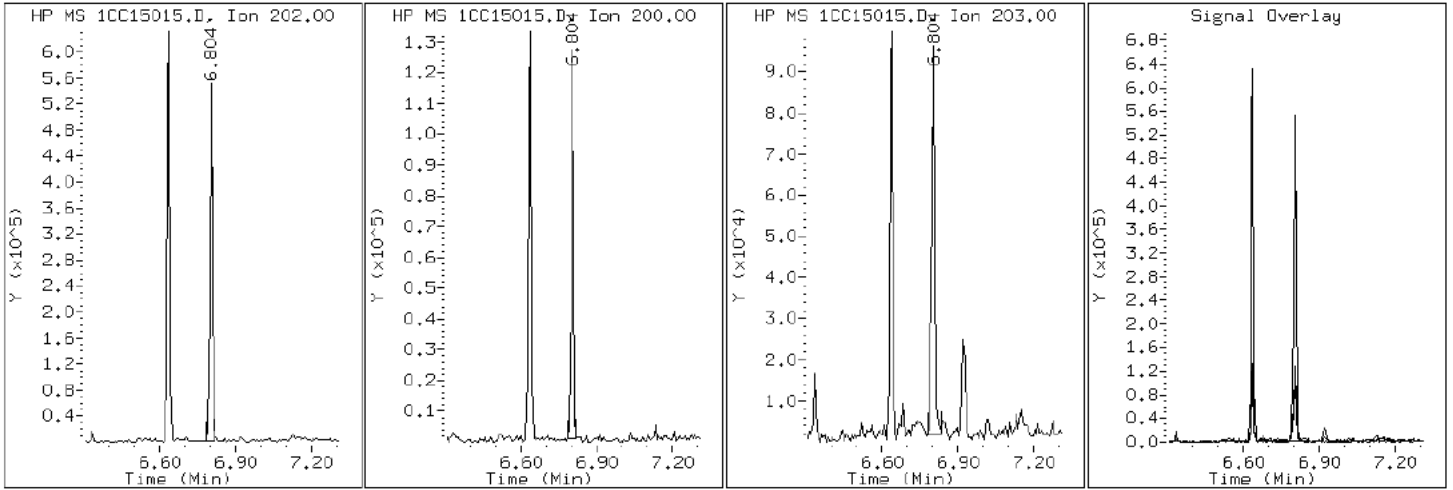
Client ID: CV0350A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-26-a

Operator: SCC

16 Pyrene

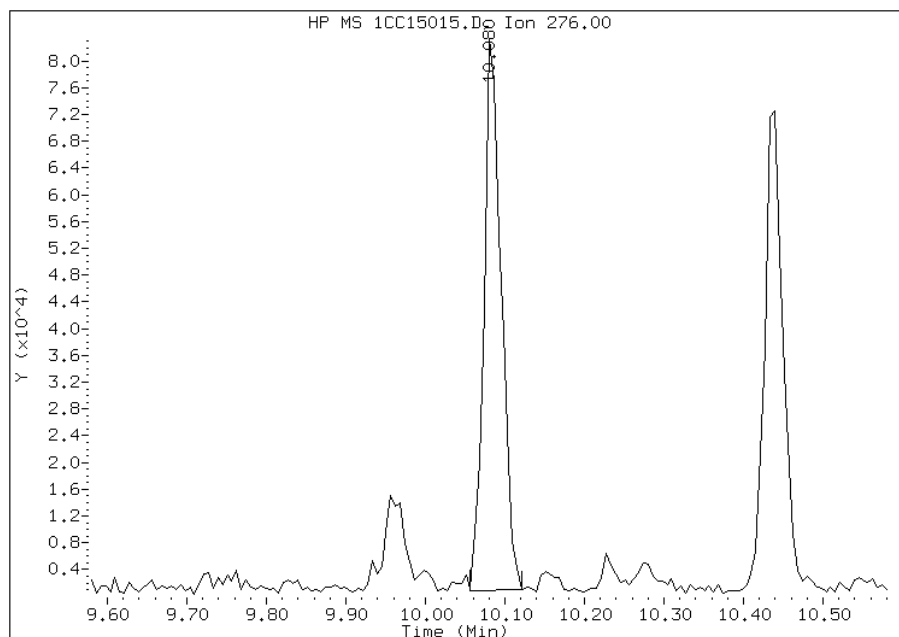


Manual Integration Report

Data File: 1CC15015.D
Inj. Date and Time: 15-MAR-2013 19:36
Instrument ID: BSMC5973.i
Client ID: CV0350A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

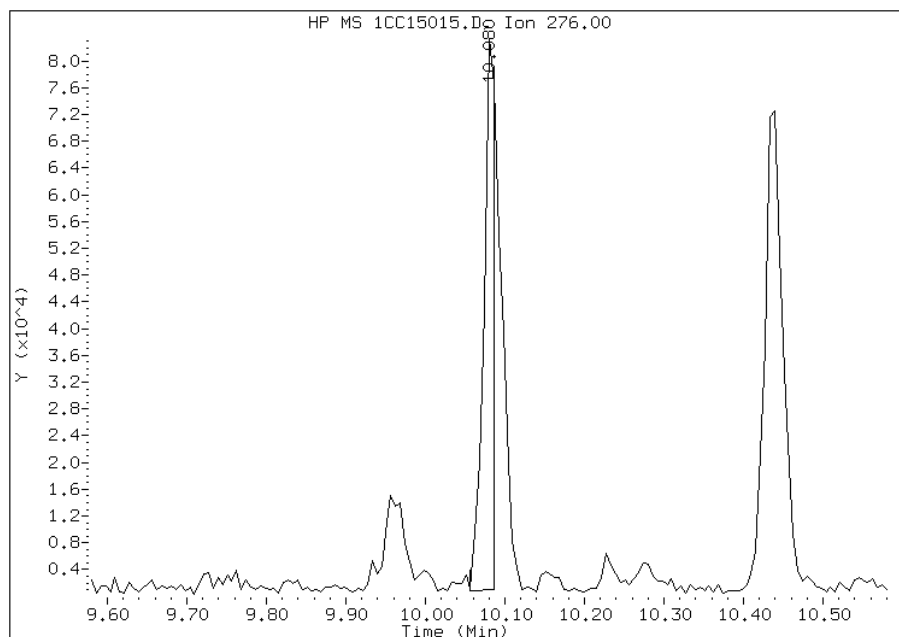
Processing Integration Results

RT: 10.08
Response: 123215
Amount: 3
Conc: 246



Manual Integration Results

RT: 10.08
Response: 80425
Amount: 2
Conc: 161



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0350B-CS Lab Sample ID: 680-88118-27
 Matrix: Solid Lab File ID: 1CC15016.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 14:00
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.02(g) Date Analyzed: 03/15/2013 19:54
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	32	J	210	26
120-12-7	Anthracene	37	J	44	22
56-55-3	Benzo[a]anthracene	340		42	21
50-32-8	Benzo[a]pyrene	250		55	27
205-99-2	Benzo[b]fluoranthene	380		64	32
191-24-2	Benzo[g,h,i]perylene	190		110	23
207-08-9	Benzo[k]fluoranthene	130		42	19
218-01-9	Chrysene	350		47	24
53-70-3	Dibenz(a,h)anthracene	62	J	110	22
206-44-0	Fluoranthene	400		110	21
86-73-7	Fluorene	23	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	150		110	37
90-12-0	1-Methylnaphthalene	200	J	210	23
91-57-6	2-Methylnaphthalene	280		210	37
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	360		42	21
129-00-0	Pyrene	400		110	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15016.D
 Lab Smp Id: 680-88118-A-27-A Client Smp ID: CV0350B-CS
 Inj Date : 15-MAR-2013 19:54
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-27-a
 Misc Info : 680-88118-A-27-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.020	Weight Extracted
M	24.017	% 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		3.751	3.751	(1.000)	1122209	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	830433	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1549185	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	54206	2.31748	812.2551	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1723254	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1714885	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	13609	0.46582	163.2644	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	15771	0.80927	283.6417	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	9996	0.56319	197.3935	
5 Acenaphthylene	152		4.745	4.751	(0.982)	3093	0.09238	32.3791	
9 Fluorene	166		5.174	5.174	(1.071)	1742	0.06619	23.1991(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	45514	1.01604	356.1115	
12 Anthracene	178		5.833	5.839	(1.008)	4686	0.10696	37.4892(Q)	
13 Carbazole	167		5.939	5.945	(1.026)	5511	0.14151	49.5984	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.639	6.639	(1.147)	55866	1.13881	399.1412
16 Pyrene	202		6.804	6.810	(0.880)	53017	1.14483	401.2517
17 Benzo(a)anthracene	228		7.721	7.727	(0.999)	47724	0.95954	336.3089
19 Chrysene	228		7.745	7.751	(1.002)	50025	1.00505	352.2594
20 Benzo(b)fluoranthene	252		8.568	8.580	(0.961)	48835	1.08967	381.9190(M)
21 Benzo(k)fluoranthene	252		8.586	8.604	(0.963)	17140	0.37281	130.6680(QM)
22 Benzo(a)pyrene	252		8.856	8.874	(0.993)	31285	0.71868	251.8897
24 Indeno(1,2,3-cd)pyrene	276		10.086	10.109	(1.131)	16986	0.41479	145.3806(M)
25 Dibenzo(a,h)anthracene	278		10.097	10.127	(1.133)	7096	0.17715	62.0908
26 Benzo(g,h,i)perylene	276		10.439	10.462	(1.171)	23446	0.54732	191.8304

QC Flag Legend

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

Data File: 1CC15016.D

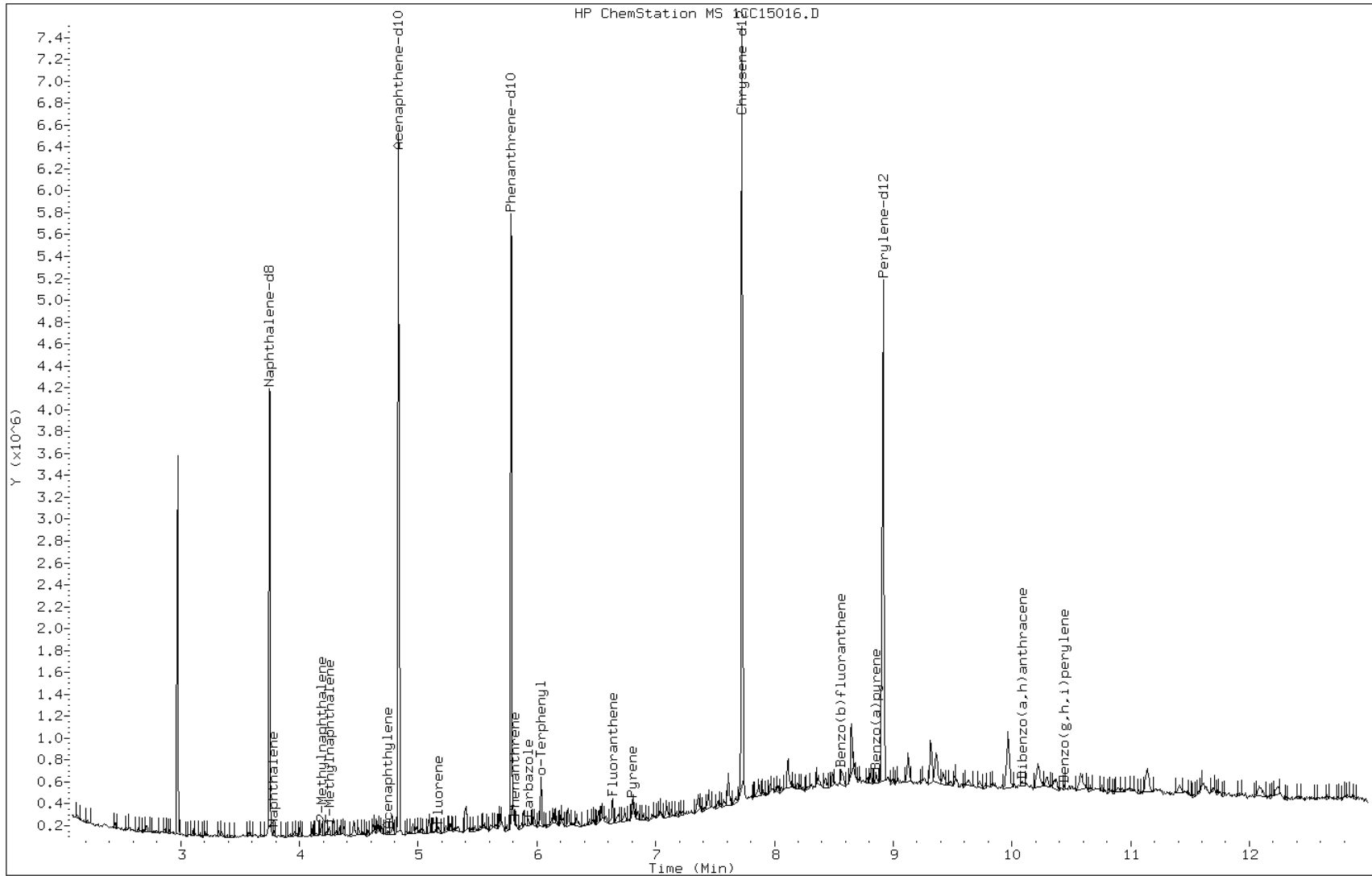
Date: 15-MAR-2013 19:54

Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

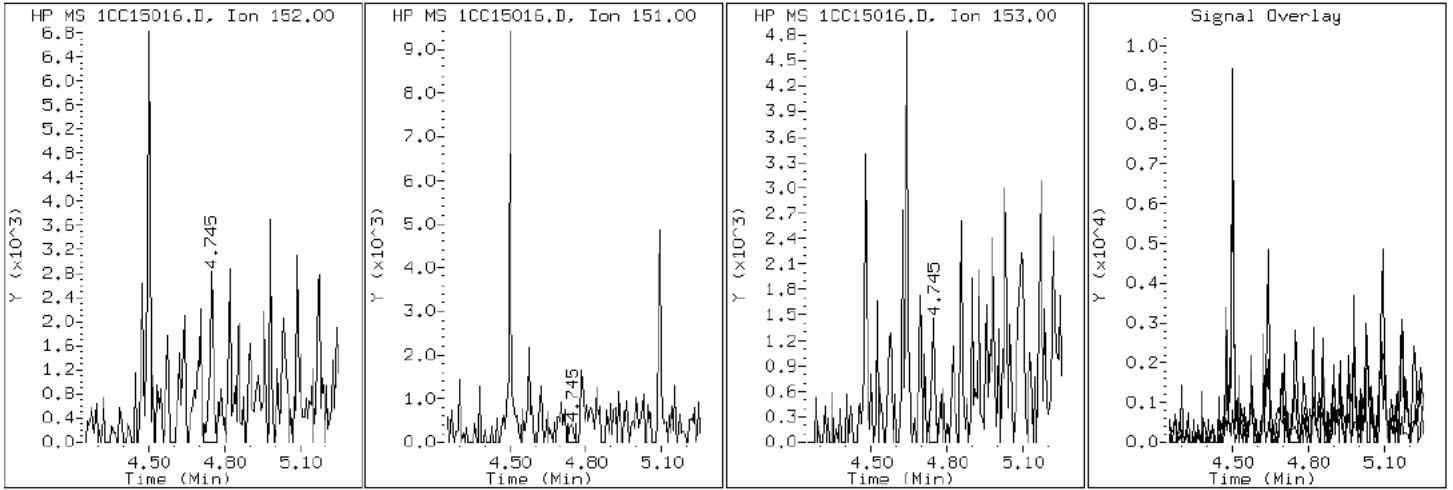
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

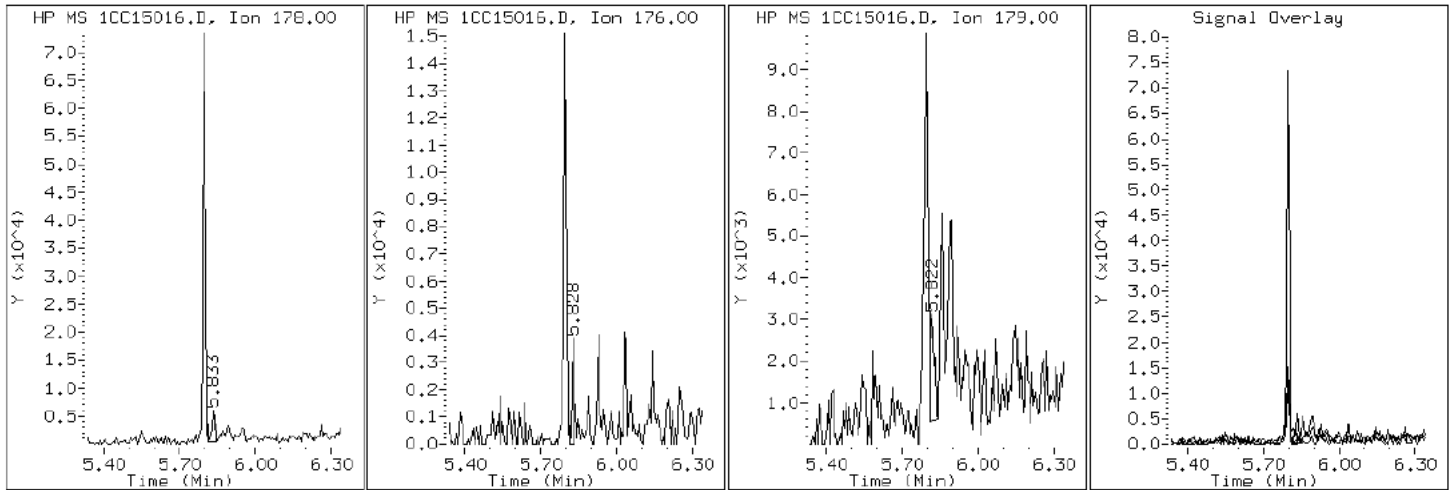
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

12 Anthracene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

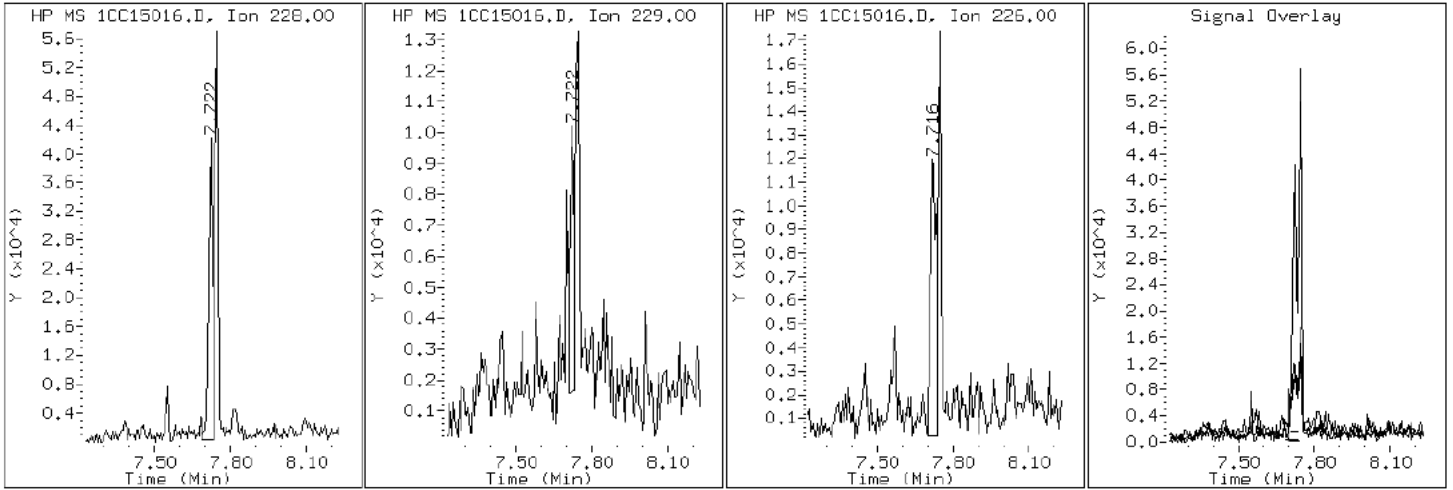
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

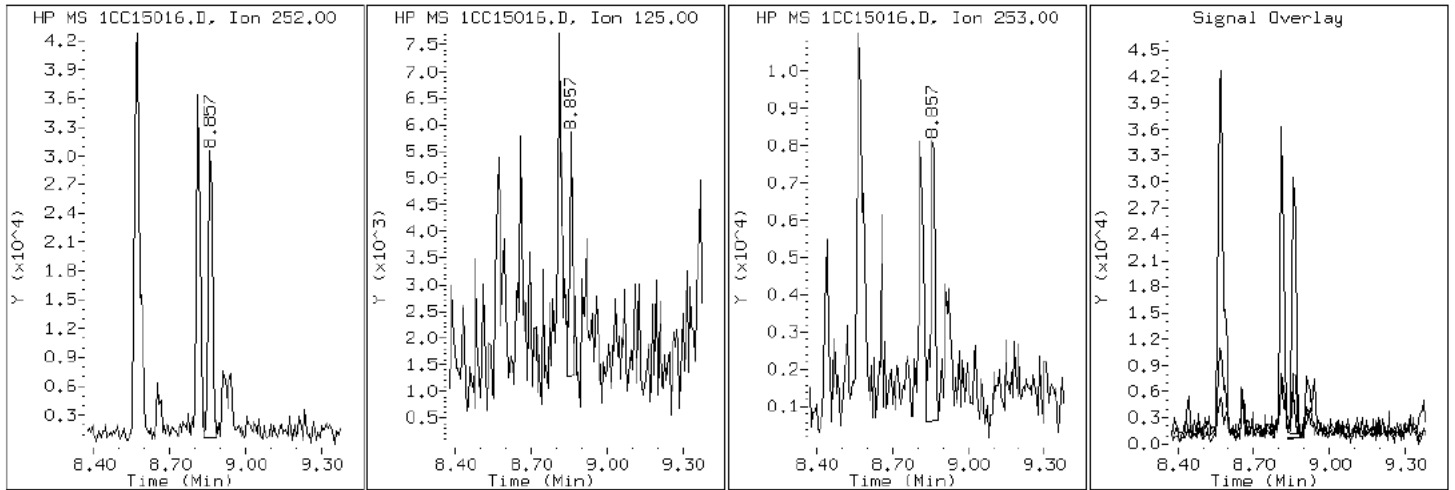
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

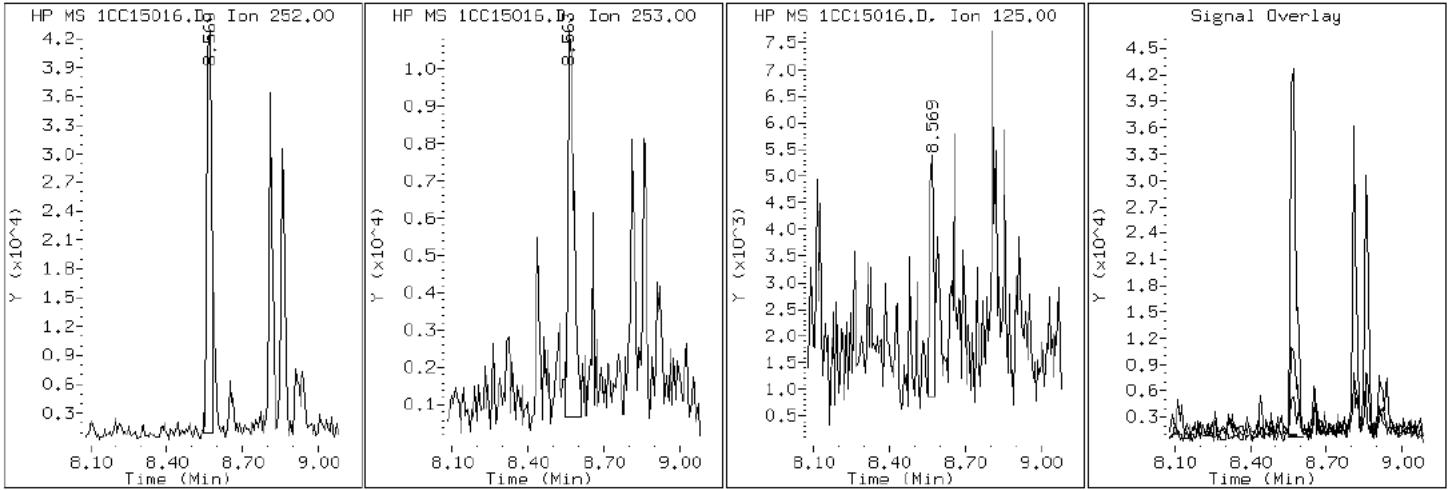
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

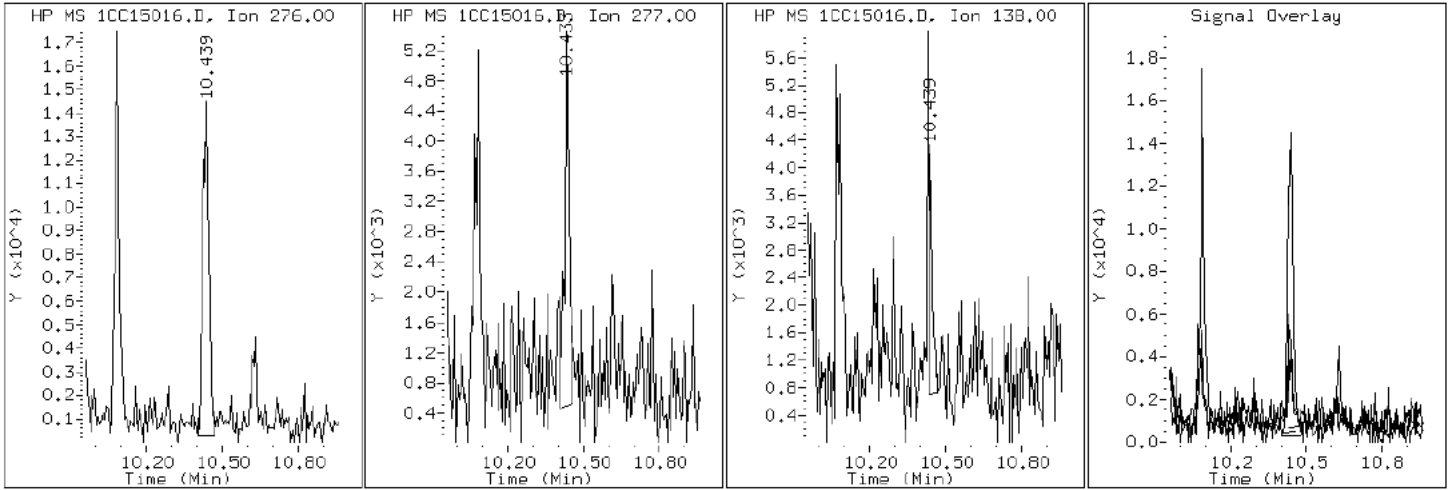
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

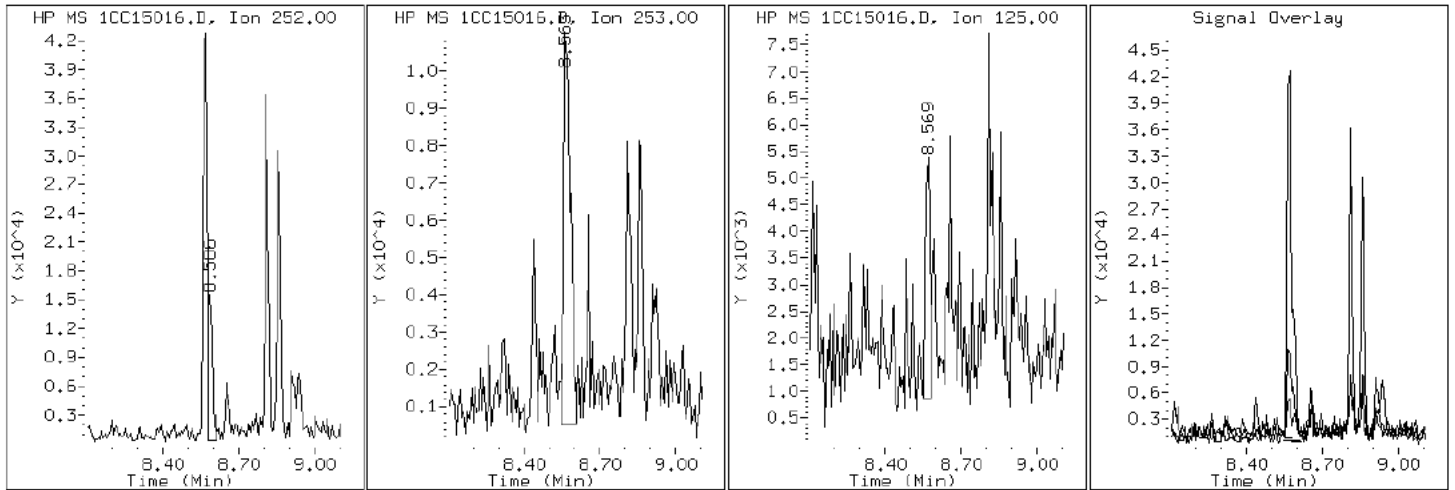
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

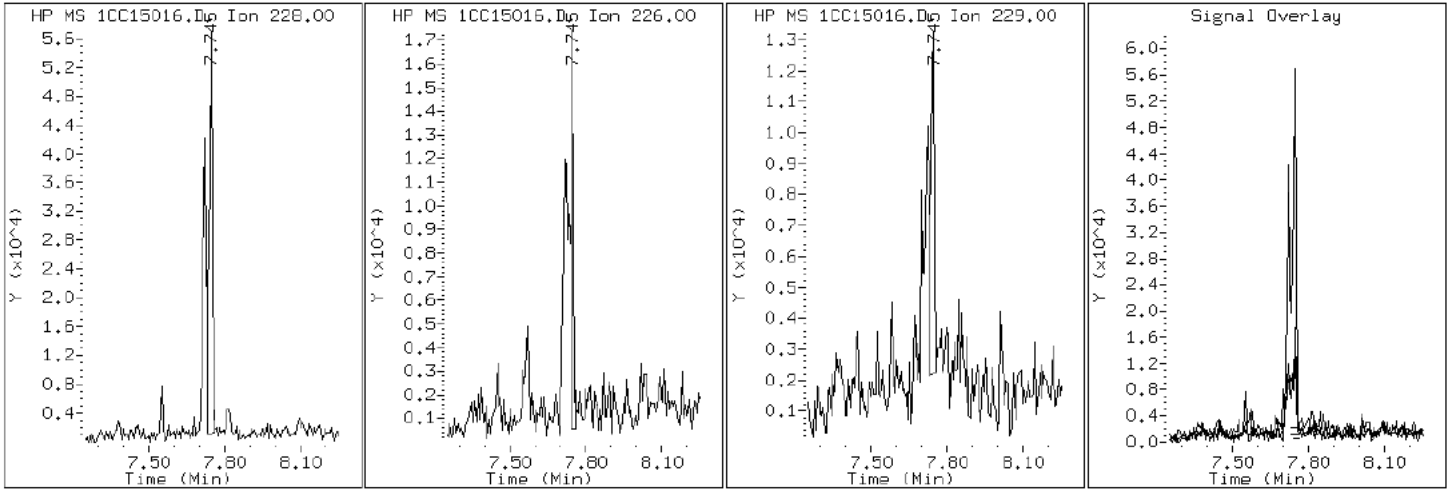
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

19 Chrysene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

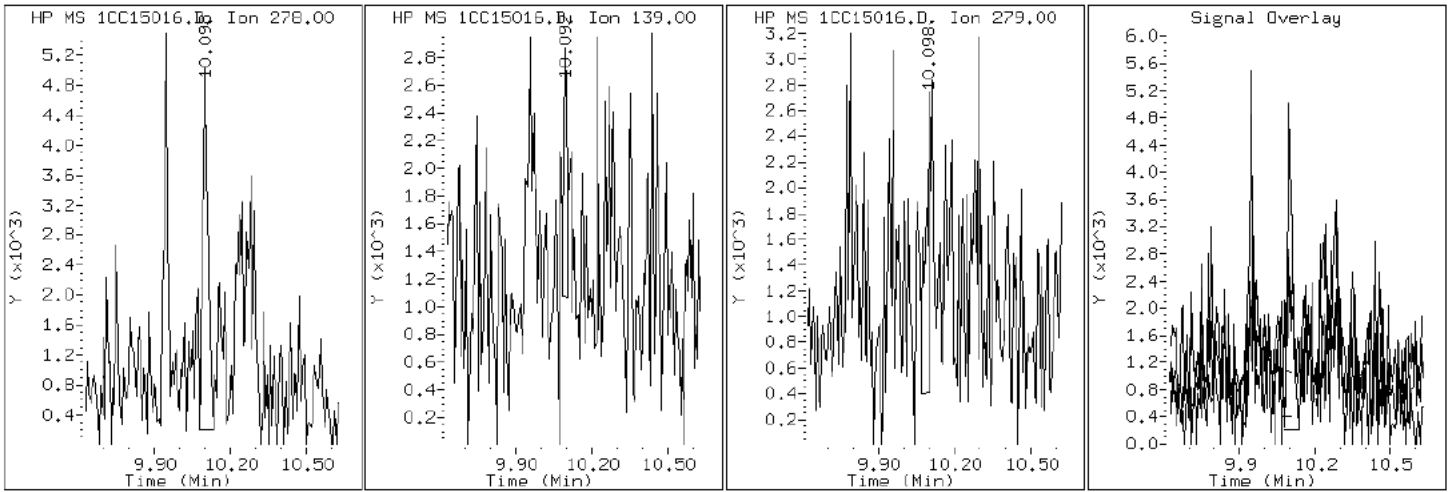
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

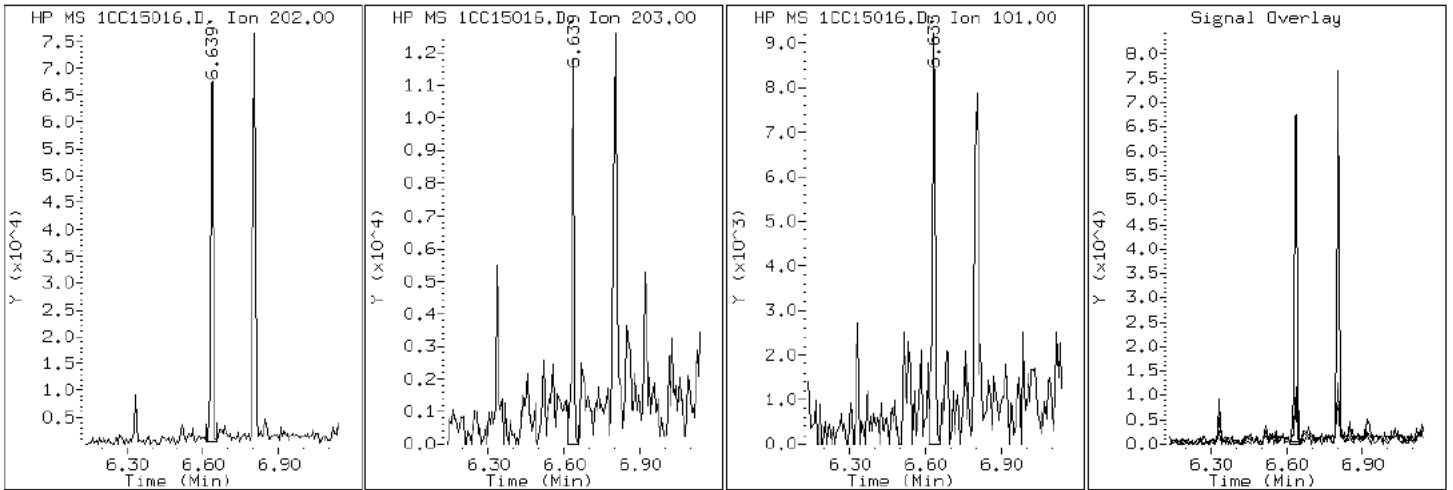
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

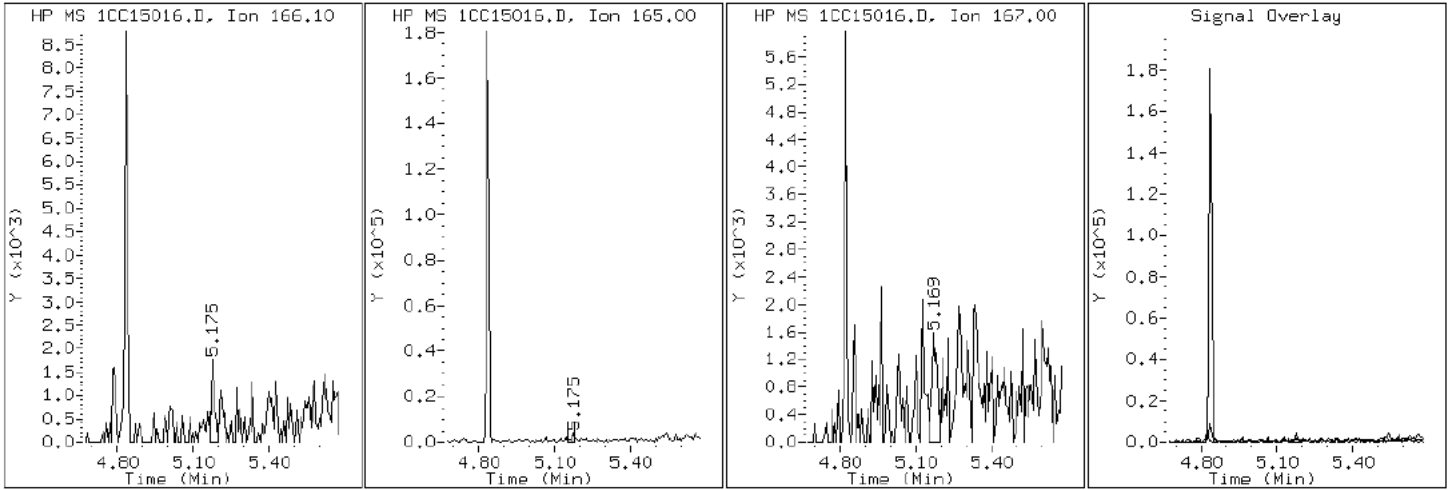
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

9 Fluorene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

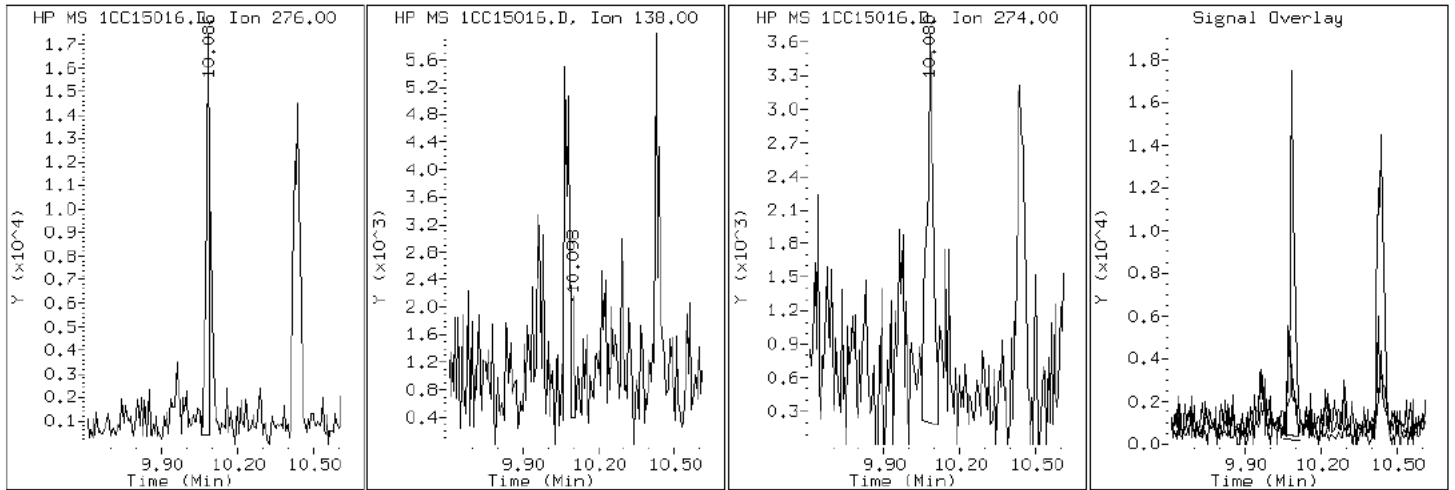
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

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



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

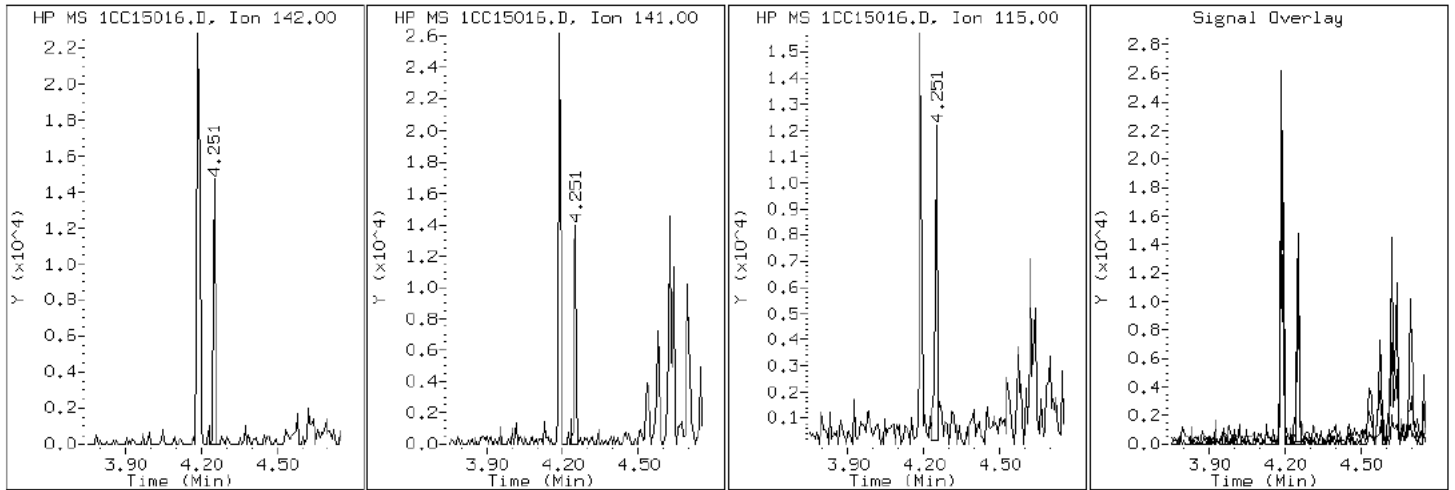
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

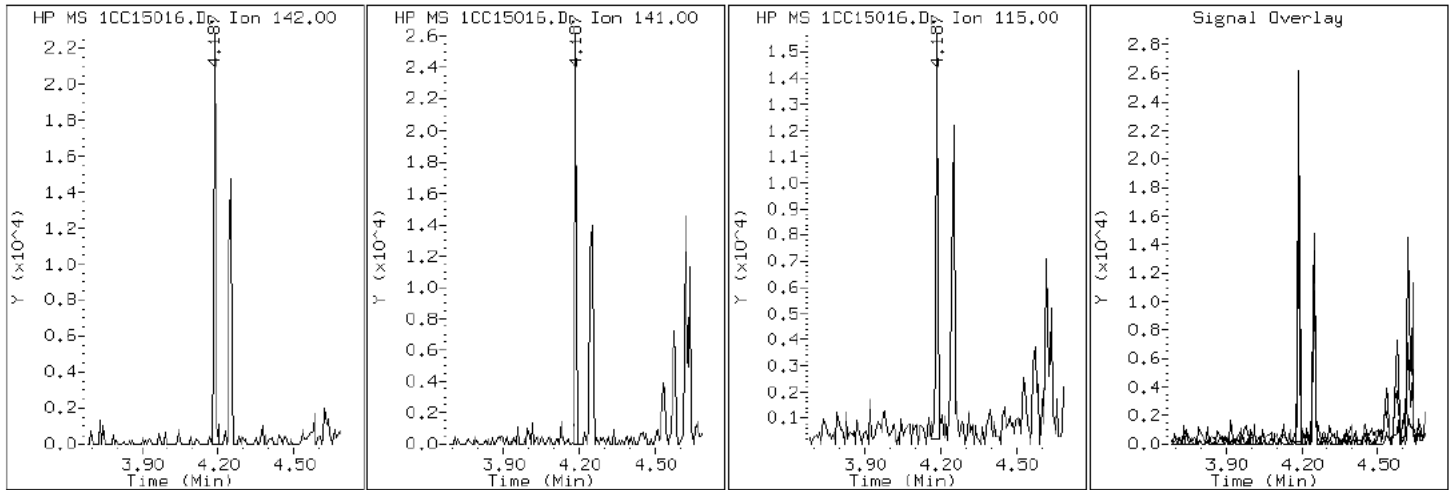
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

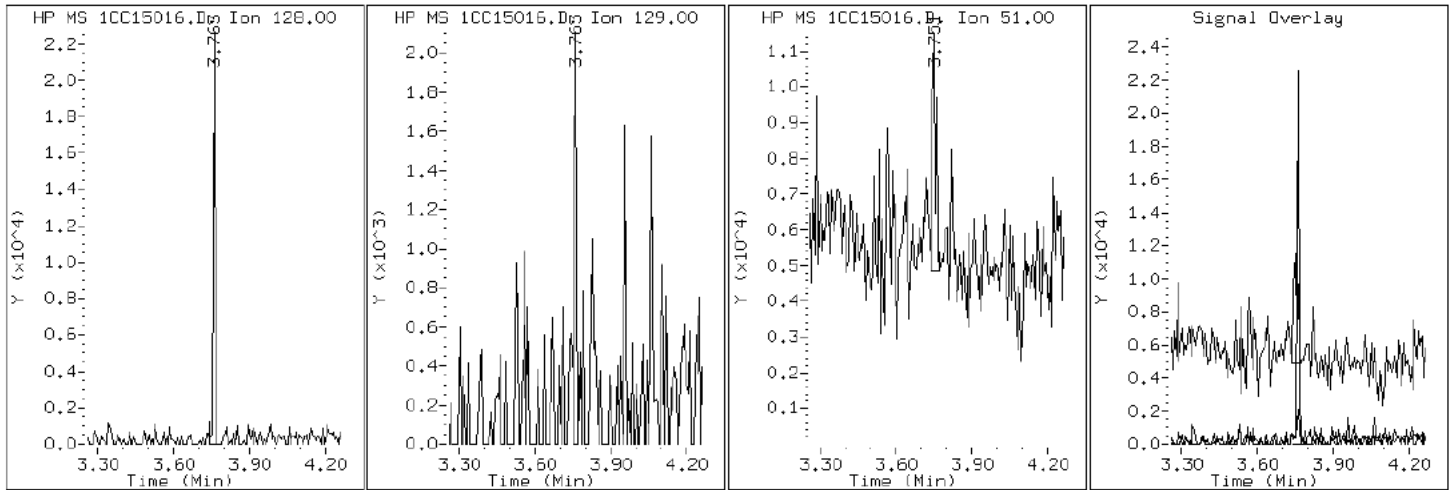
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

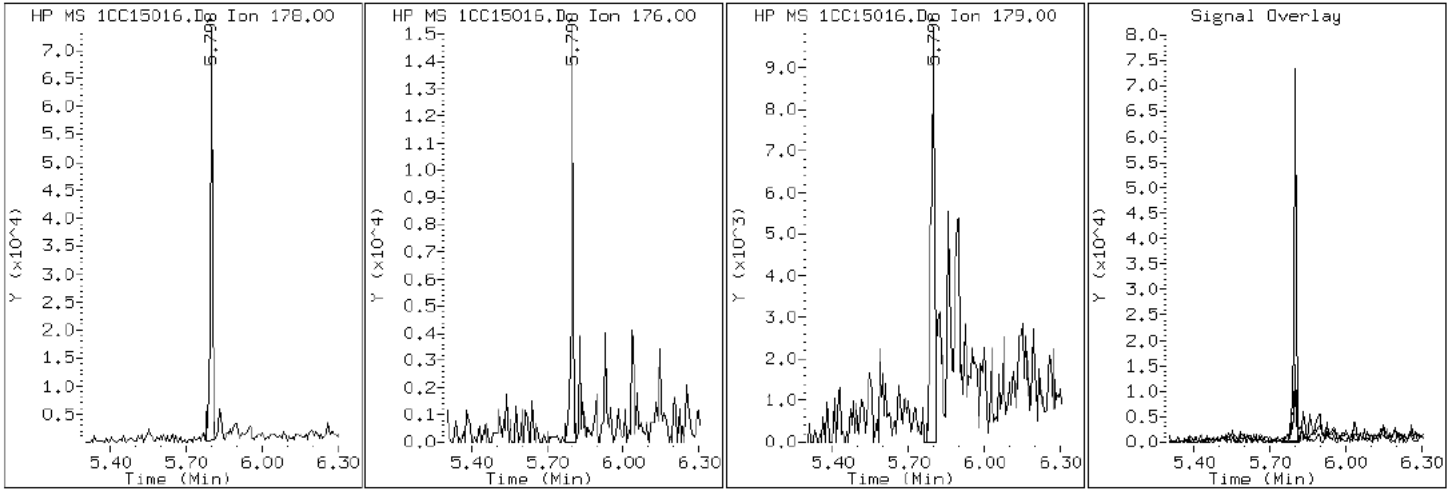
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15016.D

Date: 15-MAR-2013 19:54

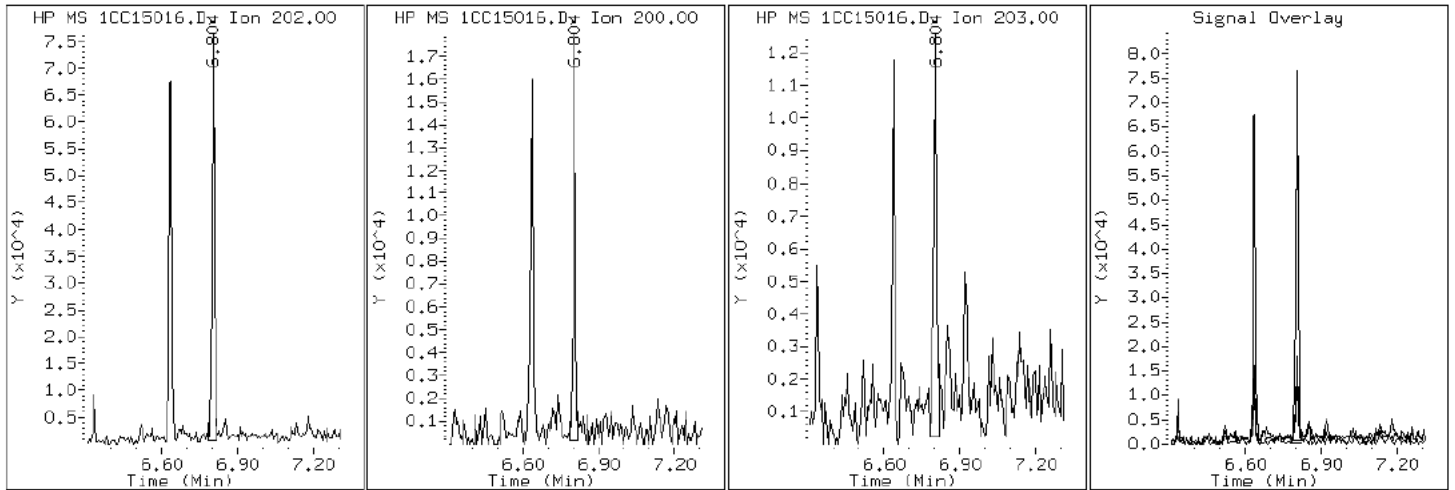
Client ID: CV0350B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-27-a

Operator: SCC

16 Pyrene

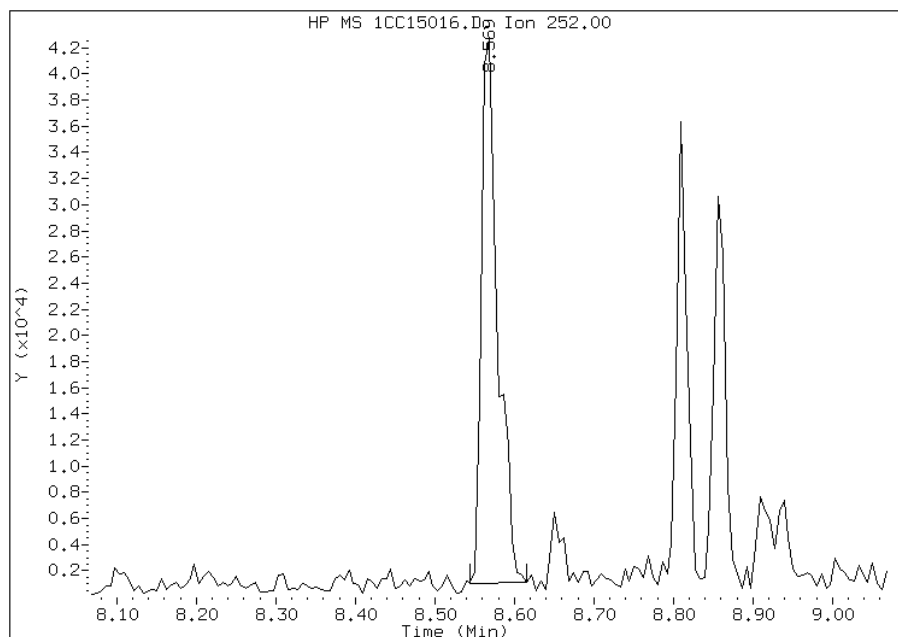


Manual Integration Report

Data File: 1CC15016.D
Inj. Date and Time: 15-MAR-2013 19:54
Instrument ID: BSMC5973.i
Client ID: CV0350B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

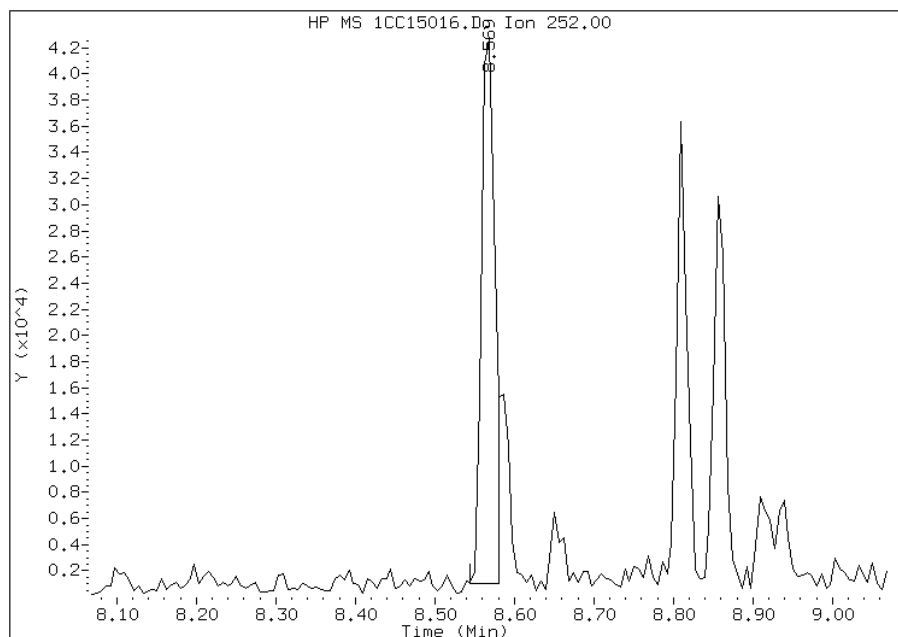
Processing Integration Results

RT: 8.57
Response: 59270
Amount: 1
Conc: 464



Manual Integration Results

RT: 8.57
Response: 48835
Amount: 1
Conc: 382



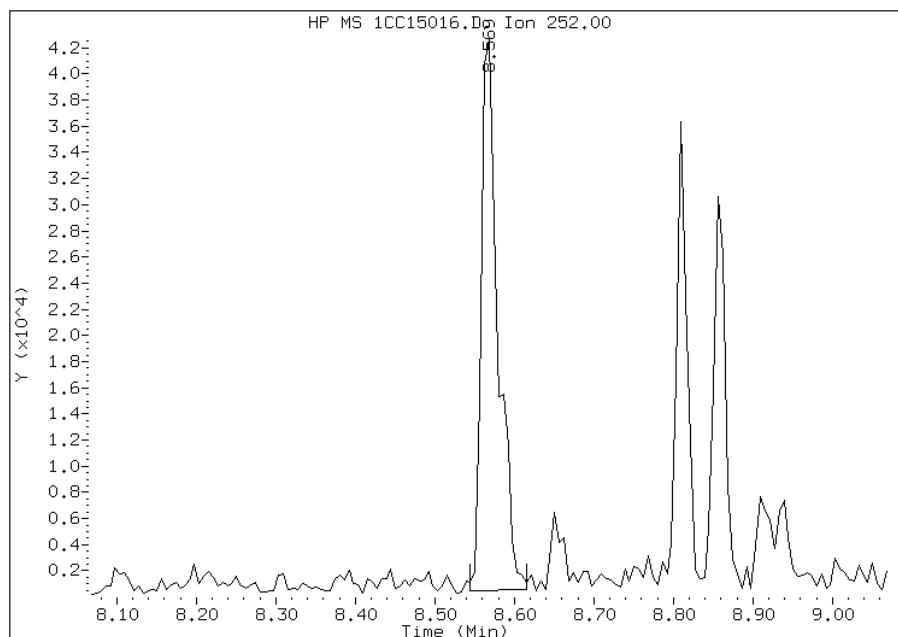
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15016.D
Inj. Date and Time: 15-MAR-2013 19:54
Instrument ID: BSMC5973.i
Client ID: CV0350B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

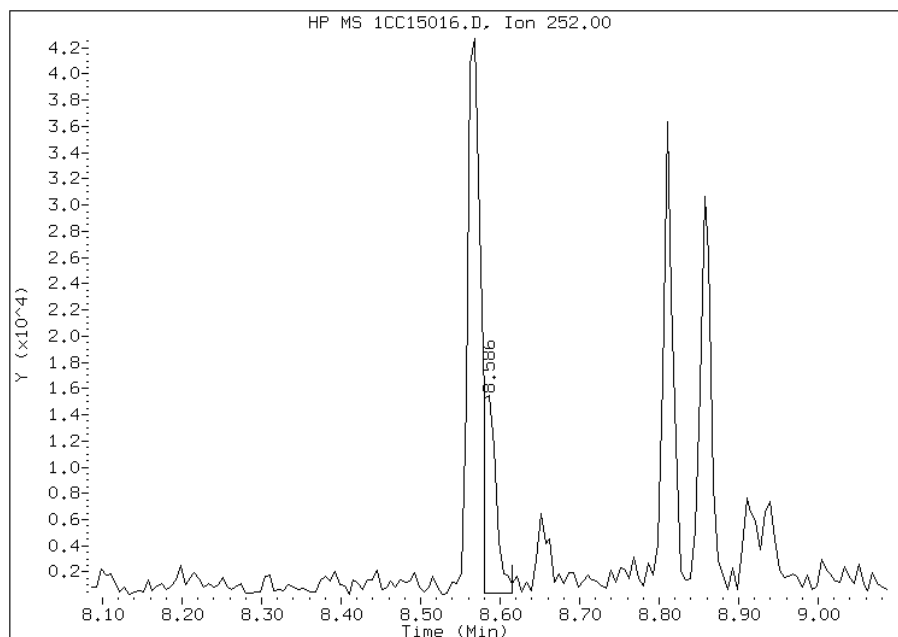
Processing Integration Results

RT: 8.57
Response: 61652
Amount: 1
Conc: 470



Manual Integration Results

RT: 8.59
Response: 17140
Amount: 0
Conc: 131



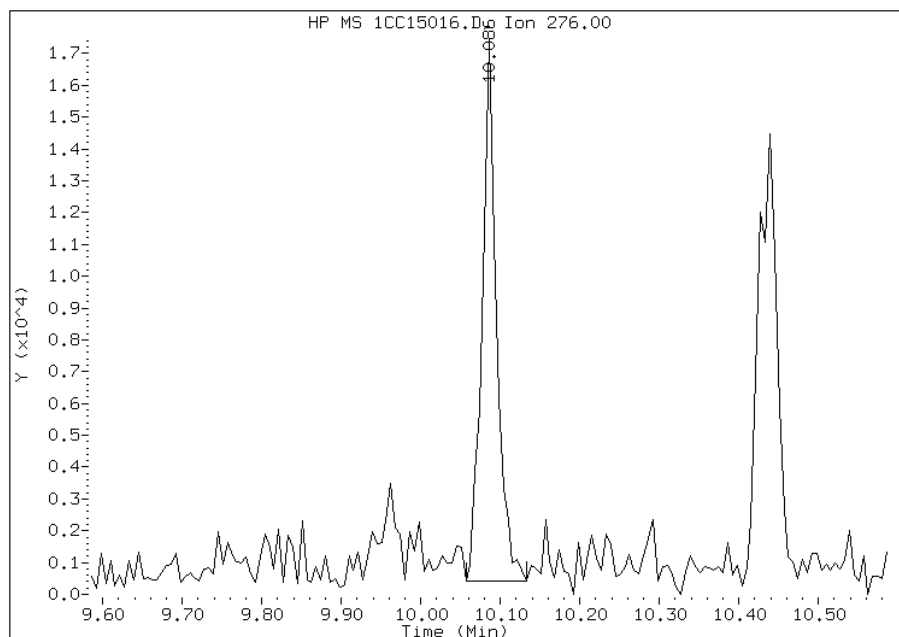
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15016.D
Inj. Date and Time: 15-MAR-2013 19:54
Instrument ID: BSMC5973.i
Client ID: CV0350B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

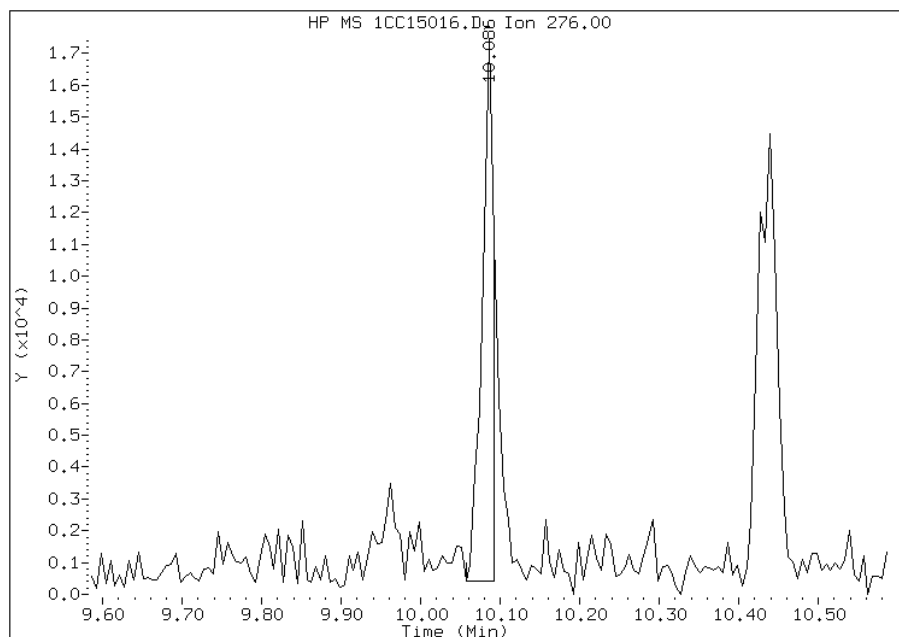
Processing Integration Results

RT: 10.09
Response: 21273
Amount: 1
Conc: 182



Manual Integration Results

RT: 10.09
Response: 16986
Amount: 0
Conc: 145



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0350C-GS Lab Sample ID: 680-88118-28
 Matrix: Solid Lab File ID: 1CC15017.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 14:10
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.42(g) Date Analyzed: 03/15/2013 20:12
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 10.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	87
208-96-8	Acenaphthylene	170	U	170	22
120-12-7	Anthracene	31	J	37	18
56-55-3	Benzo[a]anthracene	120		35	17
50-32-8	Benzo[a]pyrene	120		45	23
205-99-2	Benzo[b]fluoranthene	170		53	27
191-24-2	Benzo[g,h,i]perylene	90		87	19
207-08-9	Benzo[k]fluoranthene	64		35	16
218-01-9	Chrysene	130		39	20
53-70-3	Dibenz(a,h)anthracene	18	J	87	18
206-44-0	Fluoranthene	140		87	17
86-73-7	Fluorene	87	U	87	18
193-39-5	Indeno[1,2,3-cd]pyrene	52	J	87	31
90-12-0	1-Methylnaphthalene	58	J	170	19
91-57-6	2-Methylnaphthalene	46	J	170	31
91-20-3	Naphthalene	35	J	170	19
85-01-8	Phenanthrene	140		35	17
129-00-0	Pyrene	150		87	16

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\1C031513.b\1CC15017.D
 Lab Smp Id: 680-88118-A-28-A Client Smp ID: CV0350C-GS
 Inj Date : 15-MAR-2013 20:12
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-28-a
 Misc Info : 680-88118-A-28-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 17
 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	15.420	Weight Extracted
M	10.738	% 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		3.751	3.751	(1.000)	1118421	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	863735	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1597105	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	43825	1.81744	528.1664
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1776329	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1728050	40.0000	
2 Naphthalene	128		3.763	3.763	(1.003)	3527	0.12113	35.2024(Q)
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	3084	0.15879	46.1453
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	3536	0.19990	58.0926
11 Phenanthrene	178		5.798	5.804	(1.002)	21795	0.47195	137.1518
12 Anthracene	178		5.833	5.839	(1.008)	4878	0.10800	31.3870
15 Fluoranthene	202		6.639	6.639	(1.147)	25042	0.49516	143.8970
16 Pyrene	202		6.804	6.810	(0.880)	25180	0.52748	153.2912
17 Benzo(a)anthracene	228		7.715	7.727	(0.998)	21895	0.42707	124.1098

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.745	7.751	(1.002)	22328	0.43519	126.4693
20 Benzo(b)fluoranthene	252	8.562	8.580	(0.960)	25668	0.56837	165.1751
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	10232	0.22086	64.1847(Q)
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	17935	0.40886	118.8196
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	7345	0.17800	51.7273(QM)
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	2560	0.06342	18.4317(H)
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	13345	0.30915	89.8421

QC Flag Legend

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

Data File: 1CC15017.D

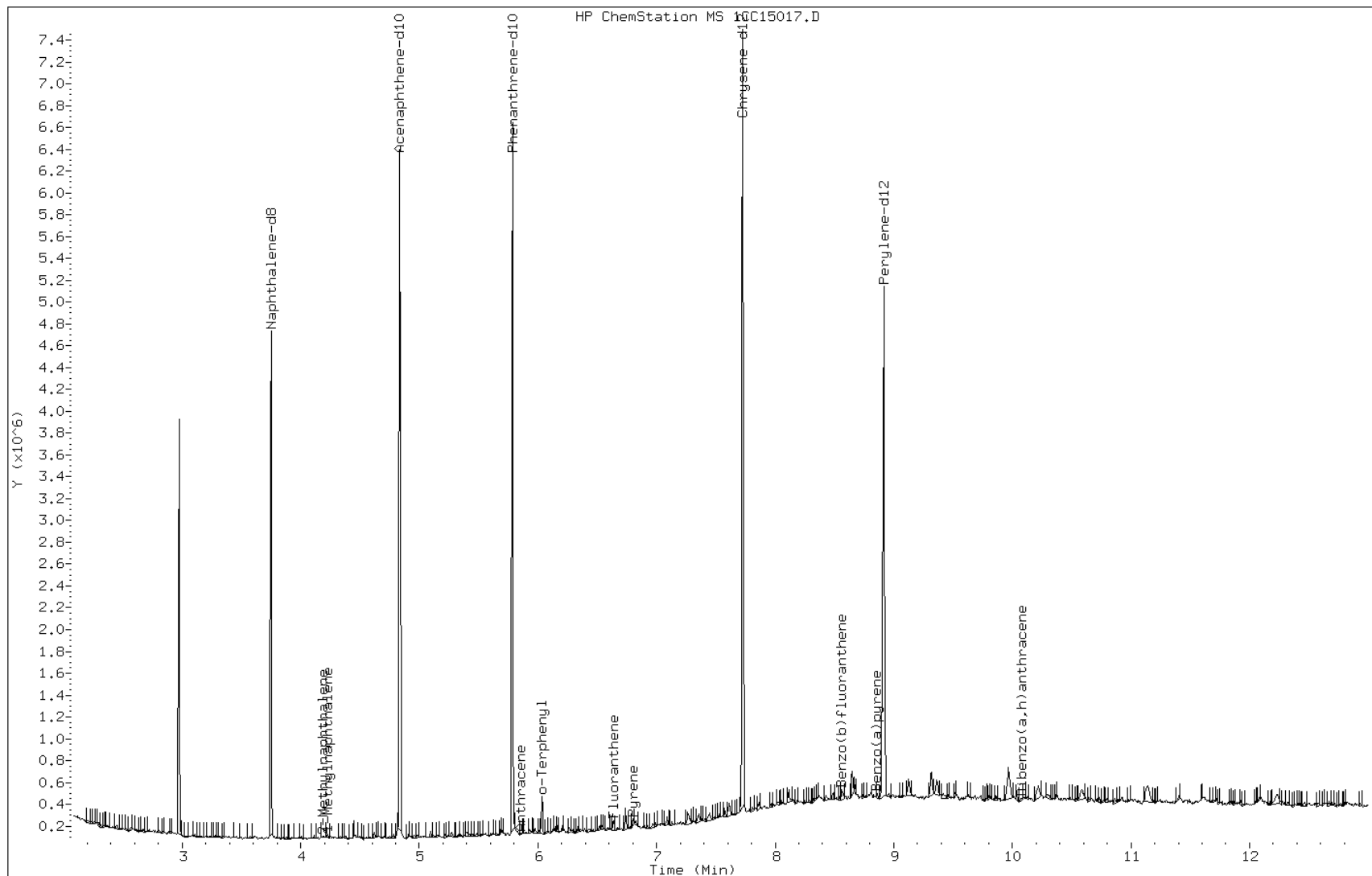
Date: 15-MAR-2013 20:12

Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

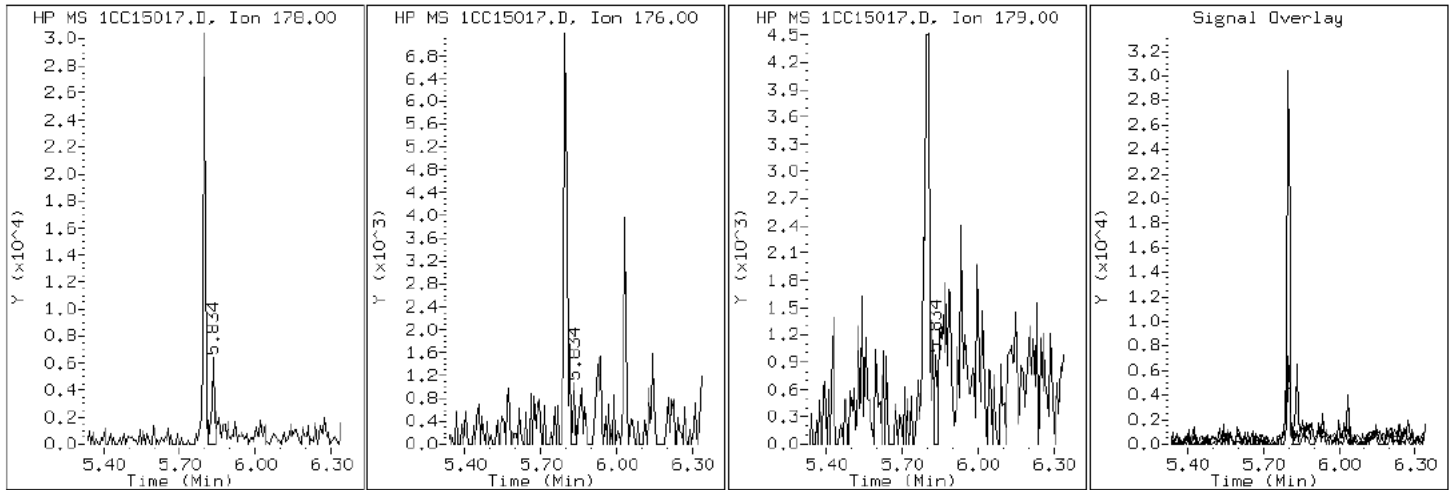
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

12 Anthracene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

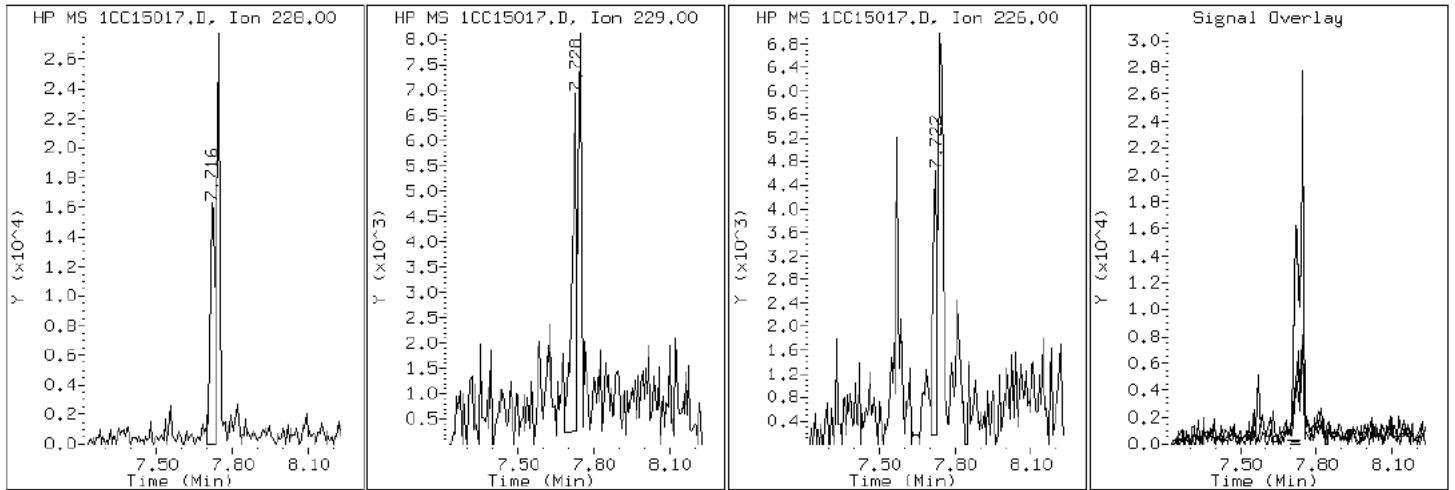
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

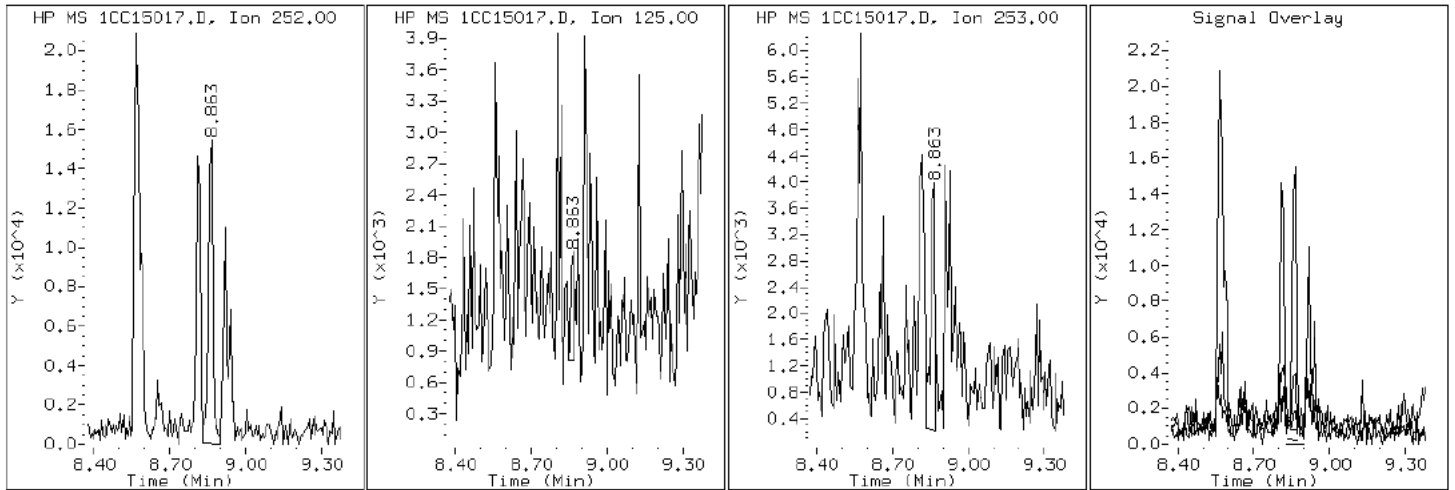
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

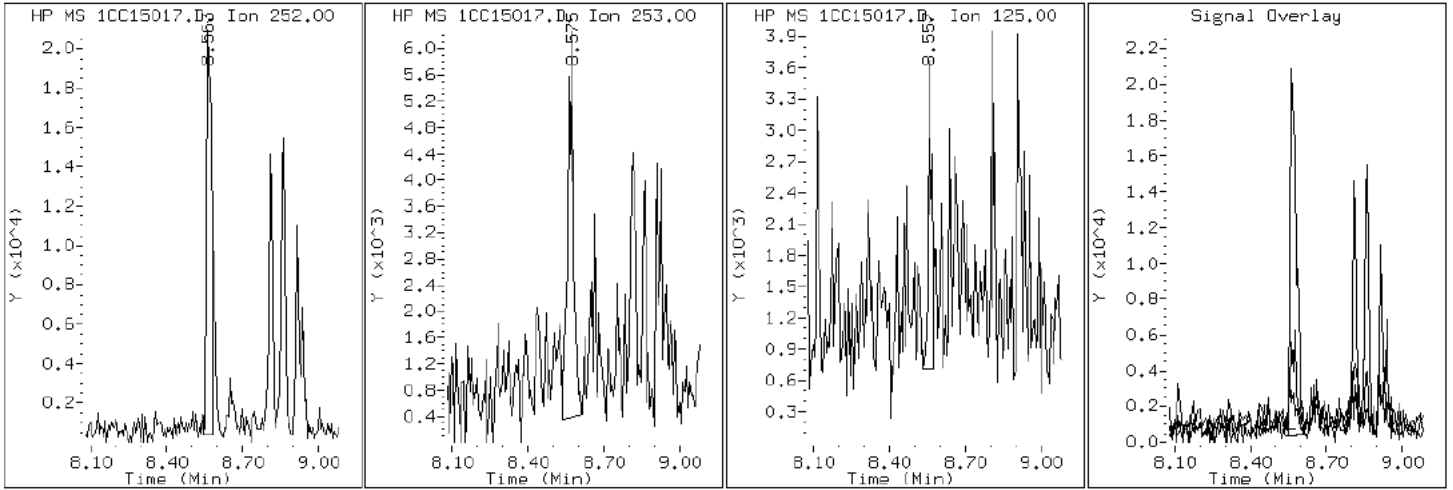
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

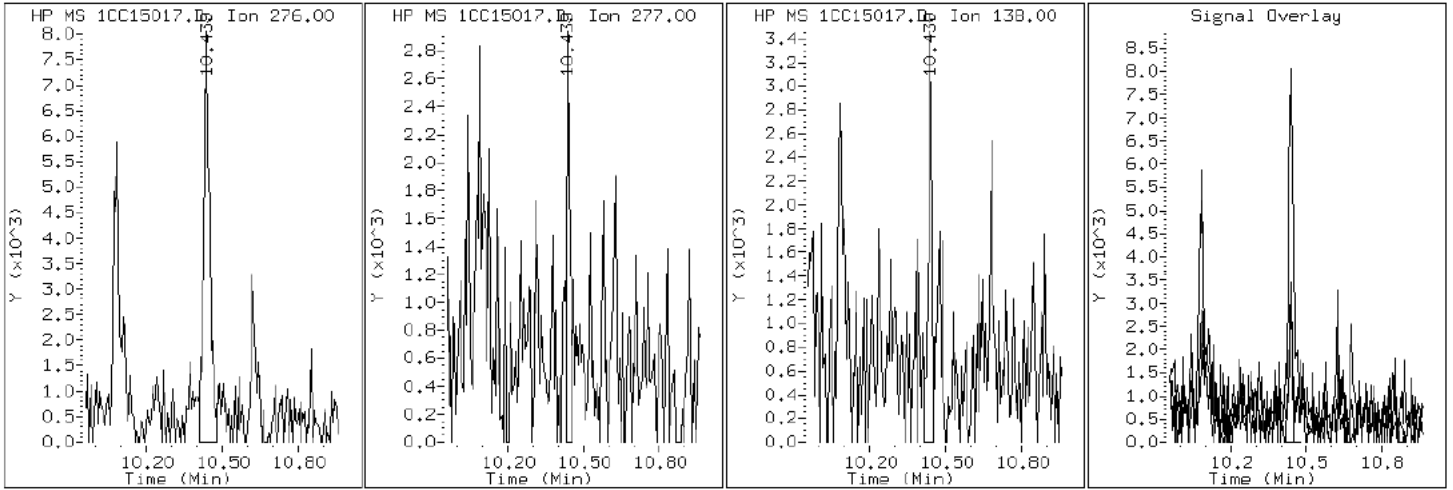
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

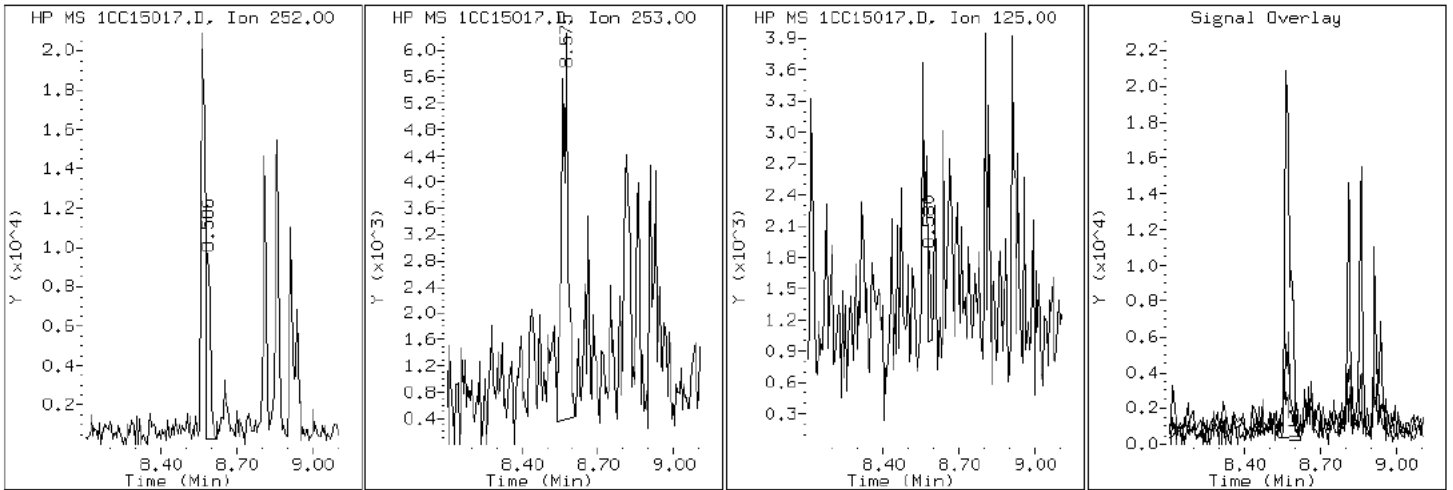
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

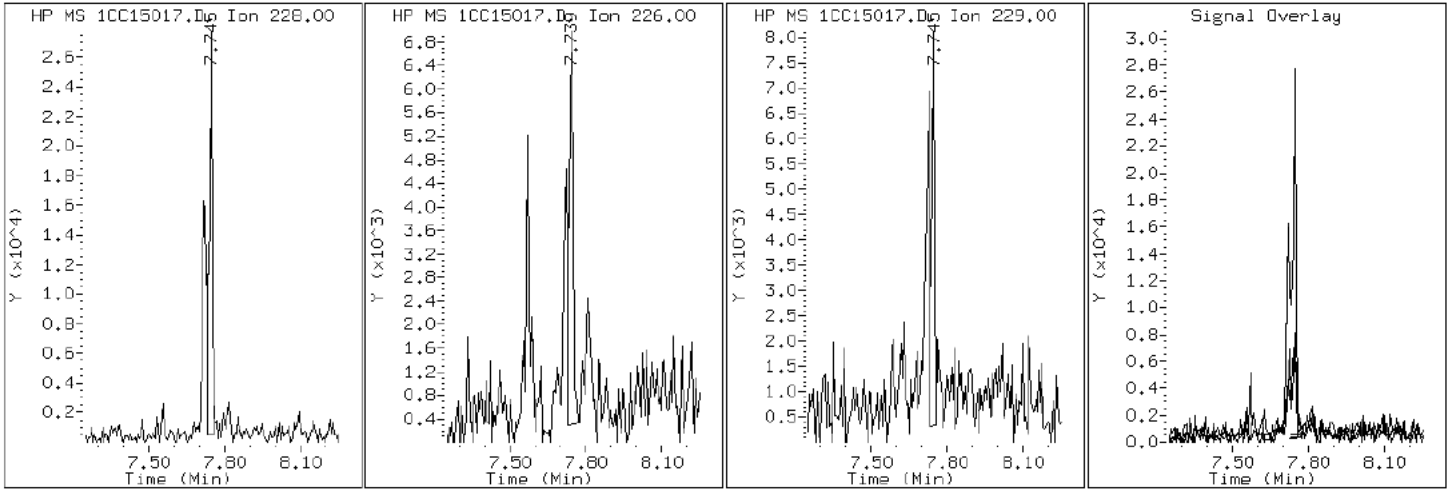
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

19 Chrysene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

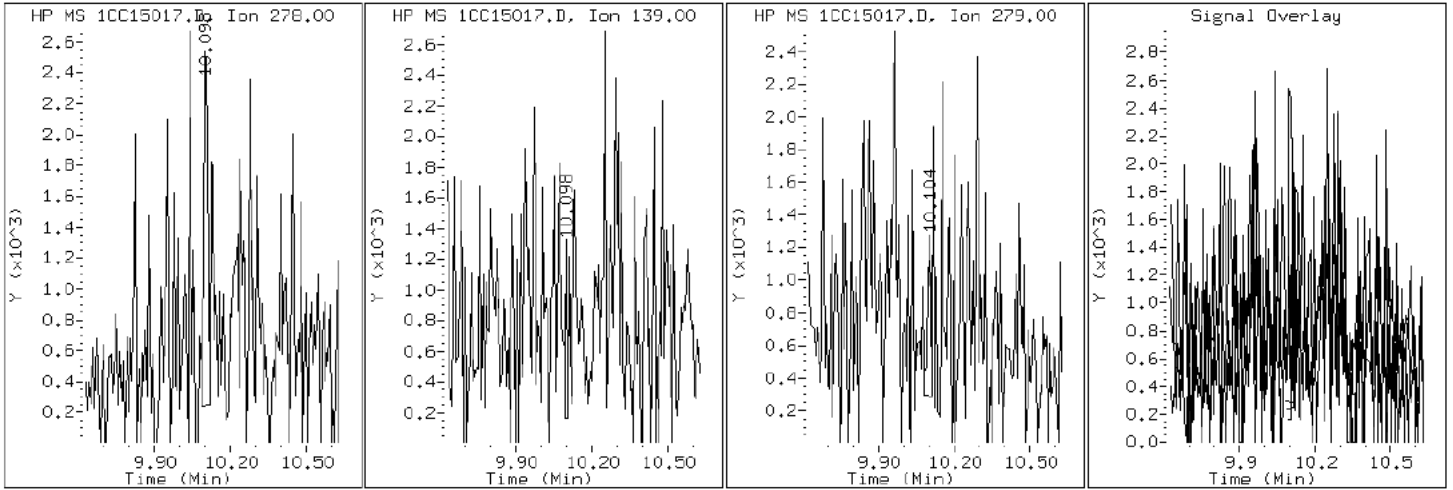
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

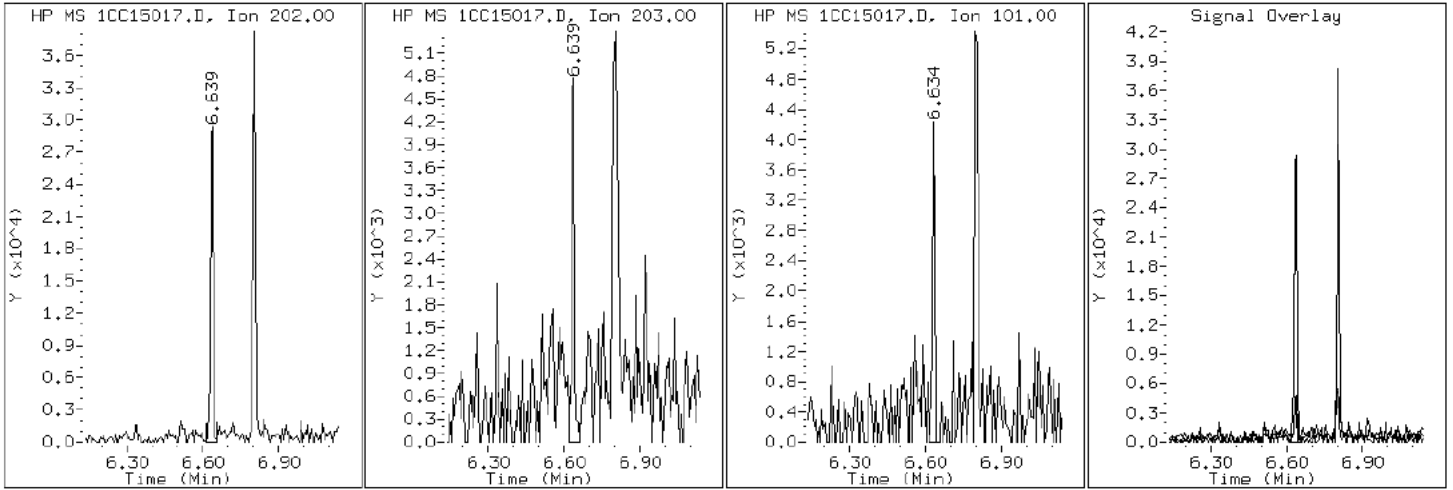
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

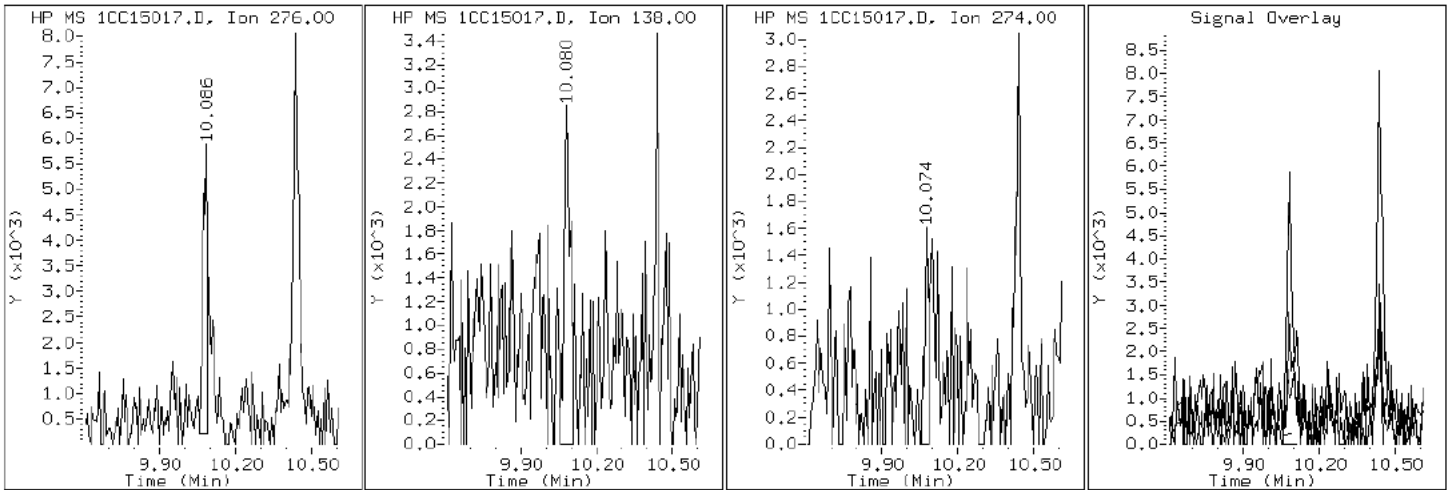
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

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



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

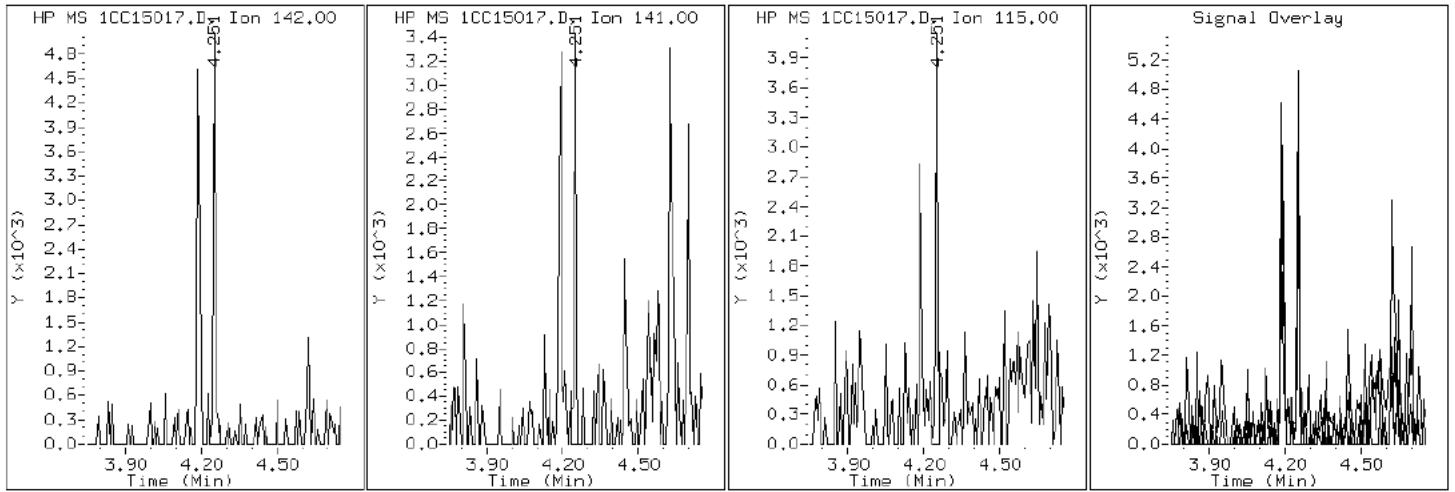
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

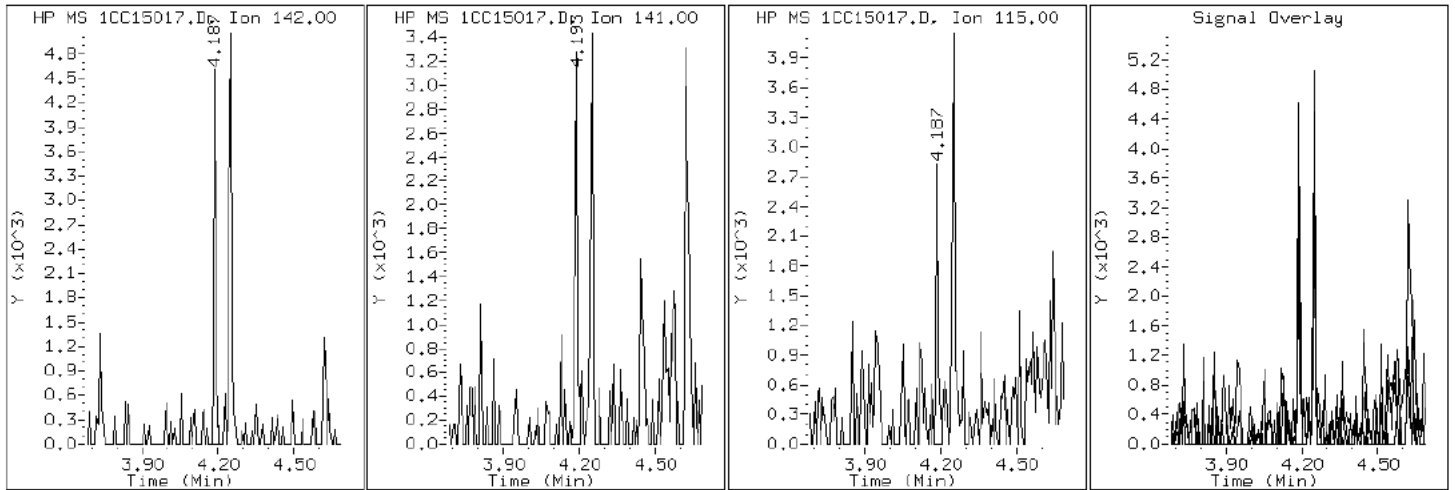
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

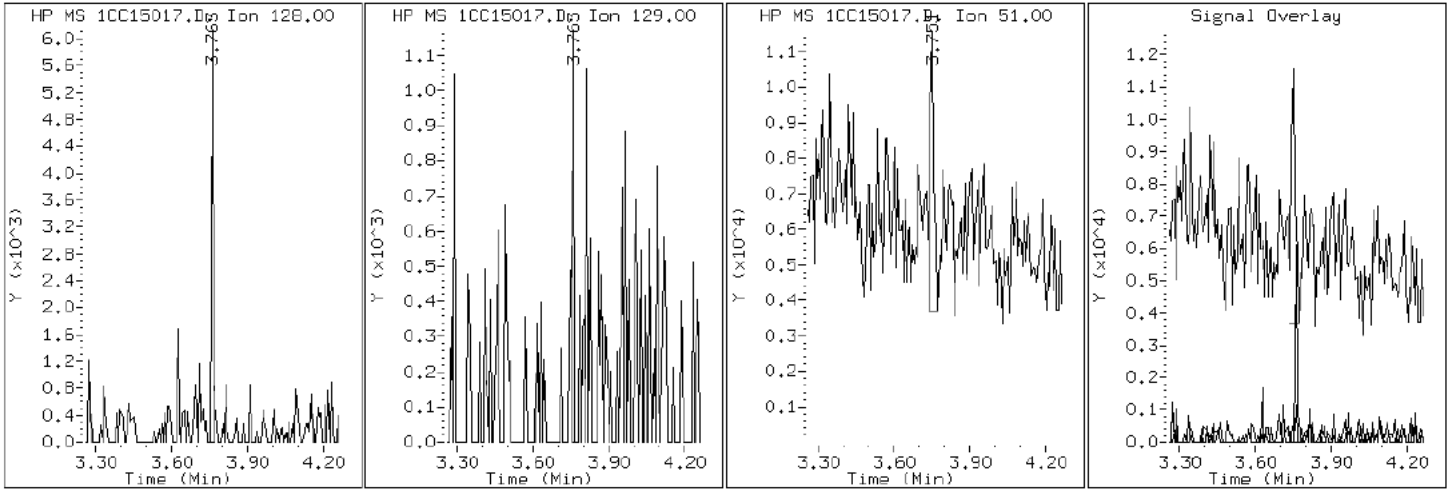
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

2 Naphthalene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

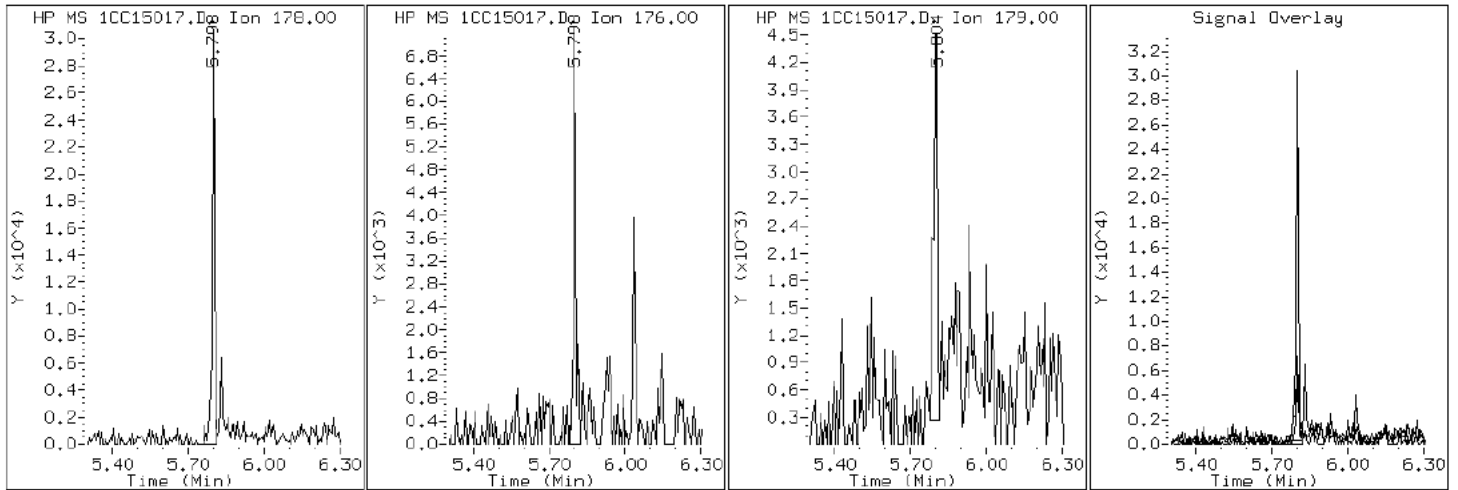
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15017.D

Date: 15-MAR-2013 20:12

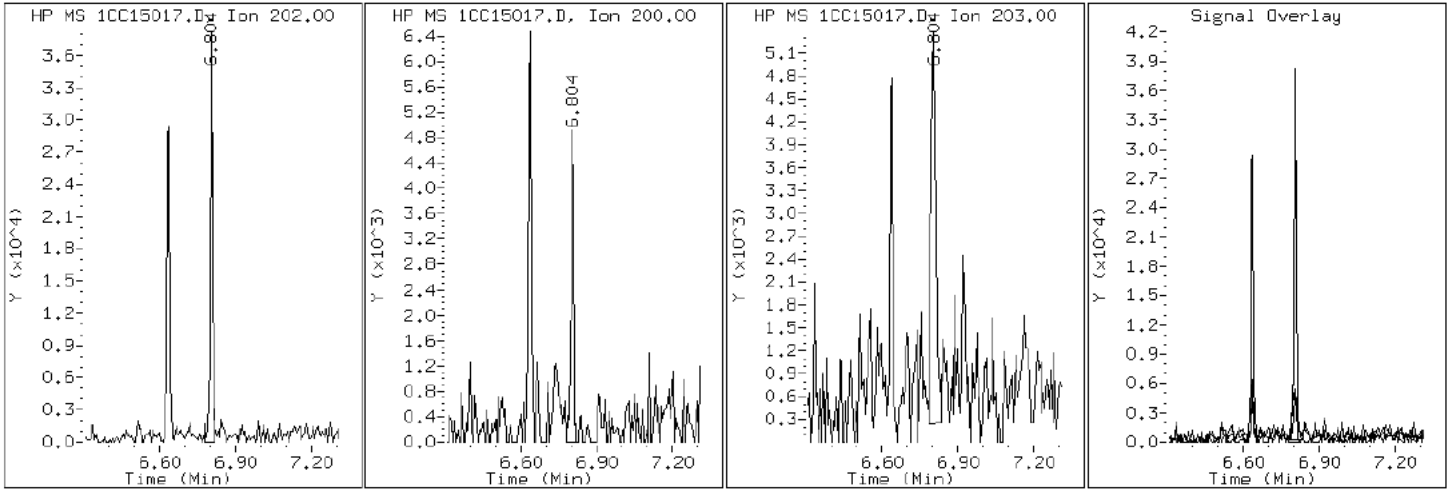
Client ID: CV0350C-GS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-28-a

Operator: SCC

16 Pyrene

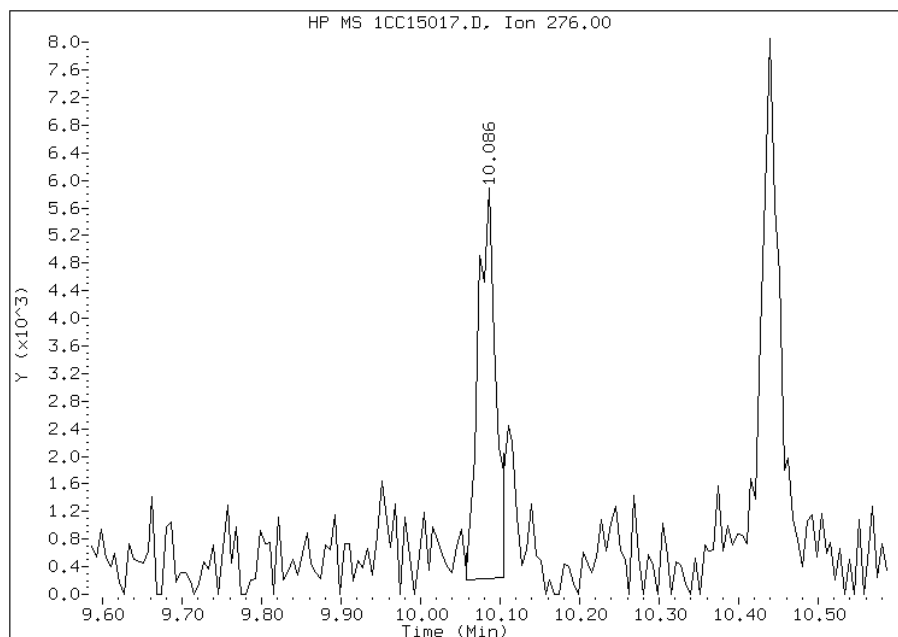


Manual Integration Report

Data File: 1CC15017.D
Inj. Date and Time: 15-MAR-2013 20:12
Instrument ID: BSMC5973.i
Client ID: CV0350C-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

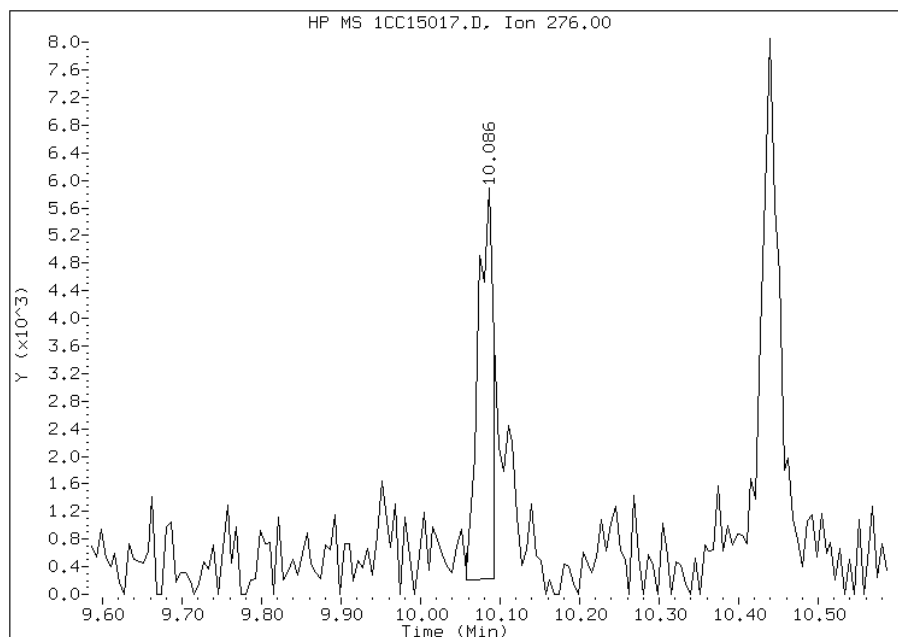
Processing Integration Results

RT: 10.09
Response: 8562
Amount: 0
Conc: 60



Manual Integration Results

RT: 10.09
Response: 7345
Amount: 0
Conc: 52



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0518A-CS Lab Sample ID: 680-88118-29
 Matrix: Solid Lab File ID: 1CC15018.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 14:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.17(g) Date Analyzed: 03/15/2013 20:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	39	J	210	26
120-12-7	Anthracene	53		43	22
56-55-3	Benzo[a]anthracene	290		41	20
50-32-8	Benzo[a]pyrene	220		54	27
205-99-2	Benzo[b]fluoranthene	370		63	31
191-24-2	Benzo[g,h,i]perylene	170		100	23
207-08-9	Benzo[k]fluoranthene	120		41	19
218-01-9	Chrysene	280		46	23
53-70-3	Dibenz(a,h)anthracene	65	J	100	21
206-44-0	Fluoranthene	360		100	21
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	140		100	37
90-12-0	1-Methylnaphthalene	250		210	23
91-57-6	2-Methylnaphthalene	330		210	37
91-20-3	Naphthalene	240		210	23
85-01-8	Phenanthrene	370		41	20
129-00-0	Pyrene	370		100	19

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15018.D
 Lab Smp Id: 680-88118-A-29-A Client Smp ID: CV0518A-CS
 Inj Date : 15-MAR-2013 20:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-29-a
 Misc Info : 680-88118-A-29-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 18
 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	15.170	Weight Extracted
M	23.276	% 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		3.751	3.751	(1.000)	1153347	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	885810	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1604355	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	45238	1.86756	641.8261
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1710773	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1591659	40.0000	
2 Naphthalene	128		3.763	3.763	(1.003)	20997	0.69929	240.3269(Q)
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	19419	0.96956	333.2097
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	13307	0.72950	250.7071
5 Acenaphthylene	152		4.751	4.751	(0.983)	4083	0.11433	39.2911
9 Fluorene	166		5.174	5.174	(1.071)	1996	0.07110	24.4350(Q)
11 Phenanthrene	178		5.798	5.804	(1.002)	49308	1.06288	365.2812
12 Anthracene	178		5.833	5.839	(1.008)	6943	0.15303	52.5921
13 Carbazole	167		5.939	5.945	(1.026)	5440	0.13488	46.3559

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	53339	1.04991	360.8218
16 Pyrene	202	6.804	6.810	(0.880)	49888	1.08512	372.9244
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	42230	0.85527	293.9311
19 Chrysene	228	7.745	7.751	(1.002)	40375	0.81709	280.8090
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	44504	1.06991	367.6971(M)
21 Benzo(k)fluoranthene	252	8.580	8.604	(0.962)	14749	0.34564	118.7878(QM)
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	25739	0.63705	218.9359
24 Indeno(1,2,3-cd)pyrene	276	10.092	10.109	(1.132)	15319	0.40305	138.5150(MH)
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	7031	0.18912	64.9953
26 Benzo(g,h,i)perylene	276	10.450	10.462	(1.172)	20151	0.50682	174.1793(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: 1CC15018.D

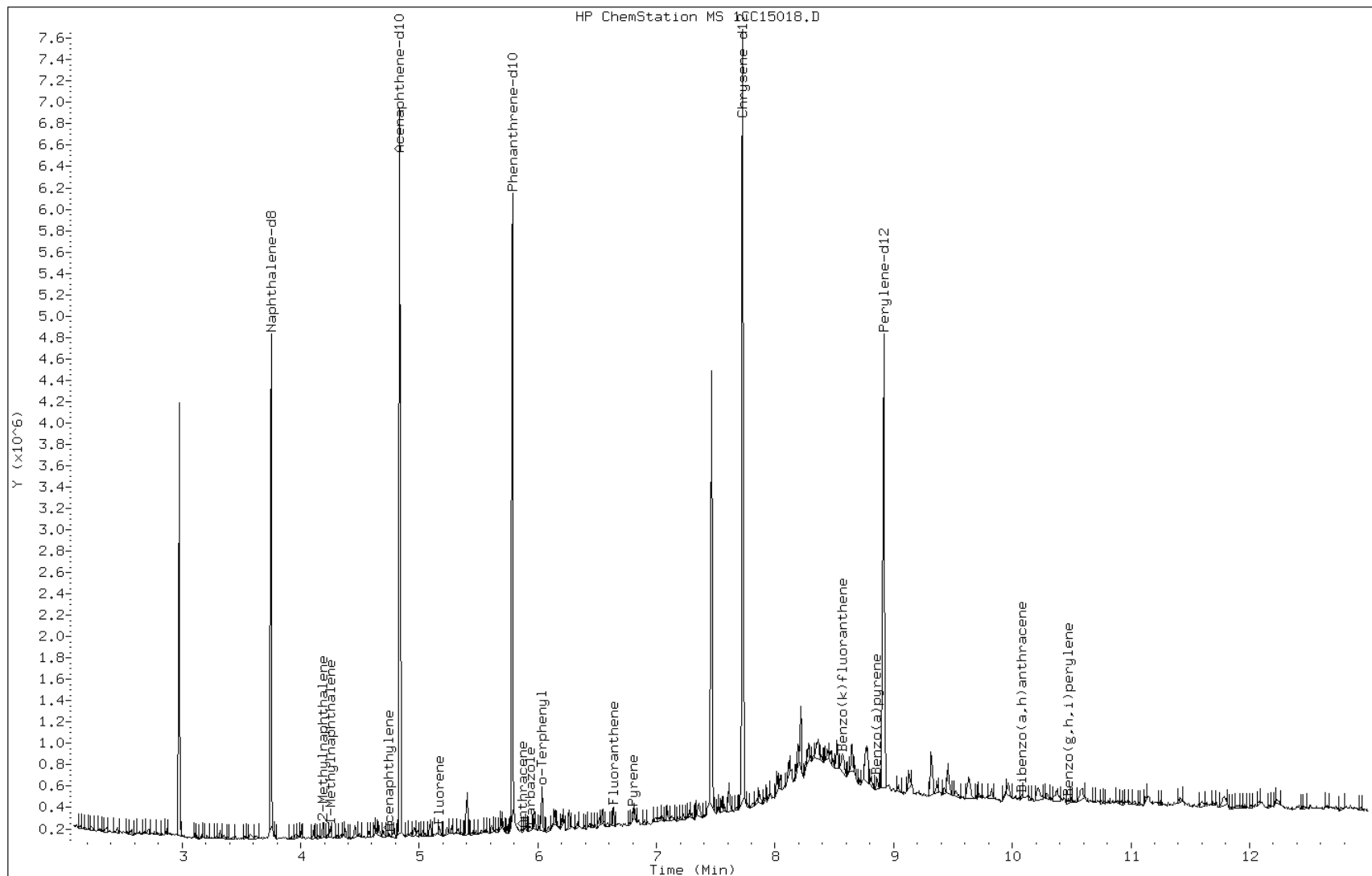
Date: 15-MAR-2013 20:31

Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

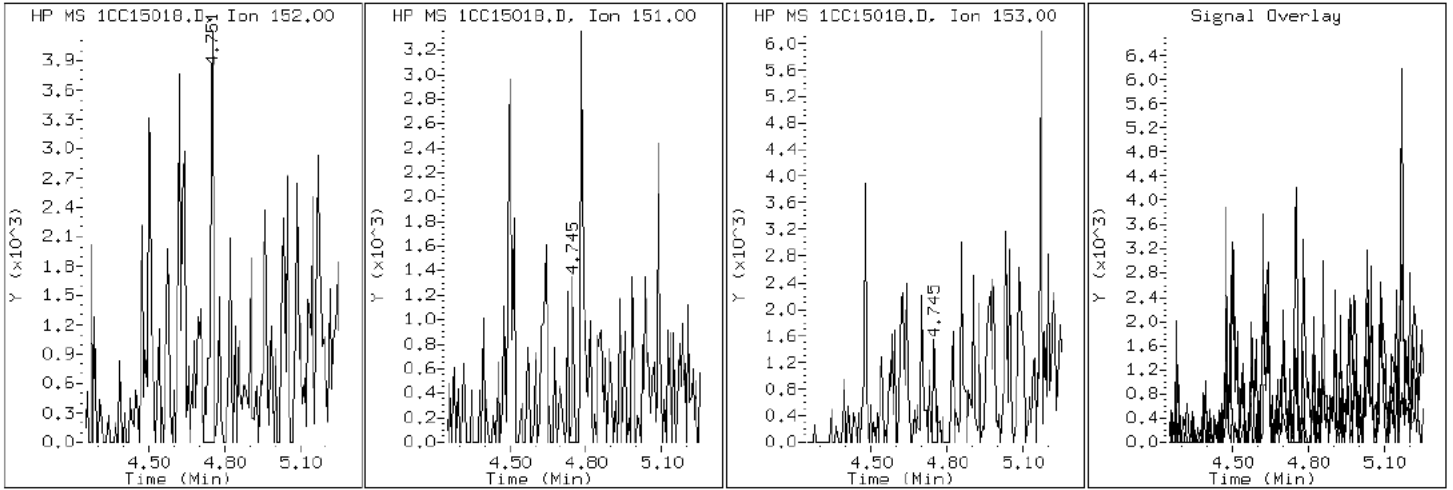
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

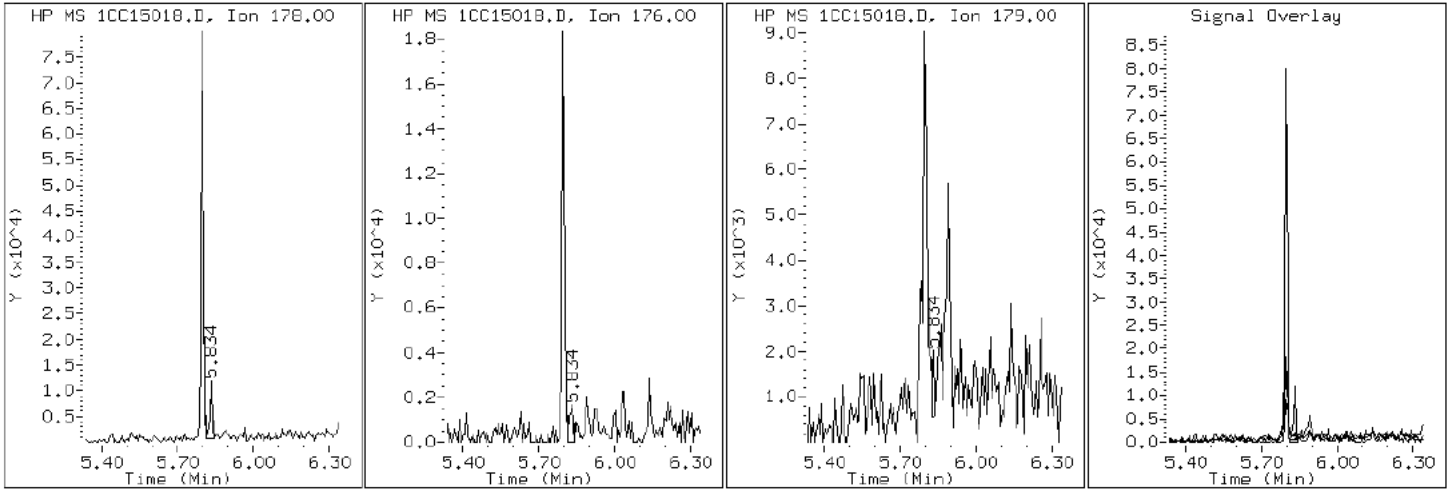
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

12 Anthracene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

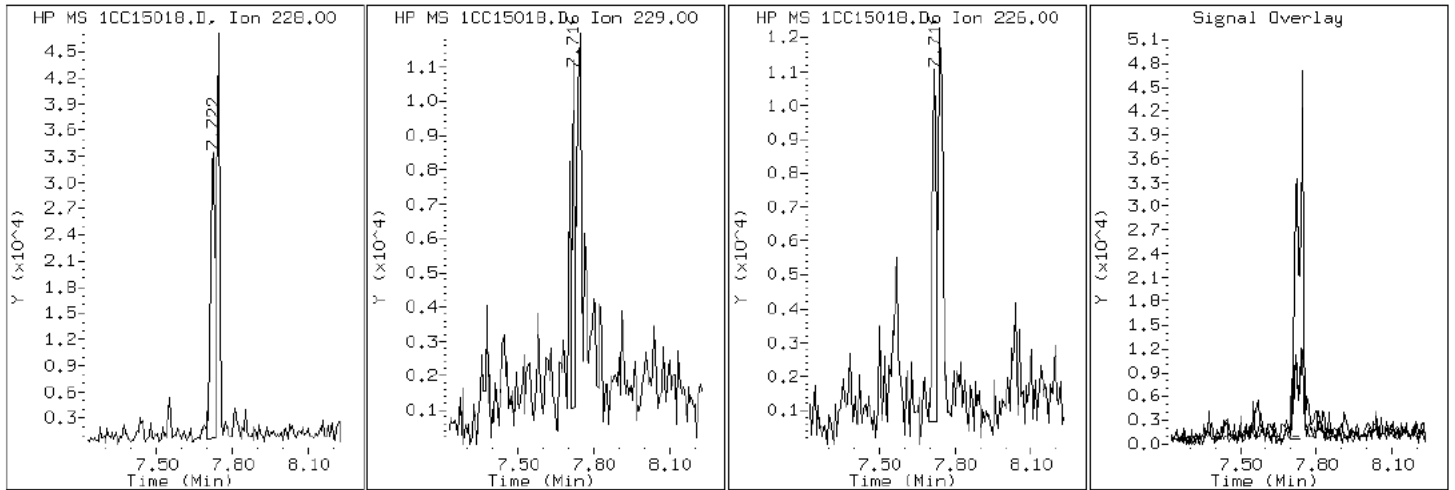
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

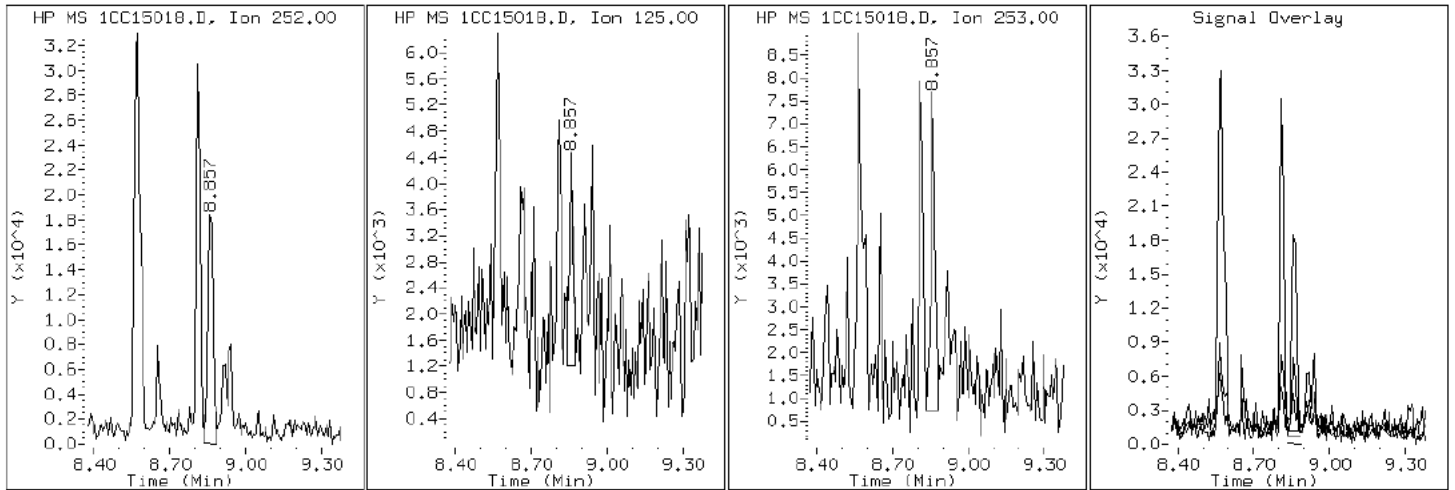
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

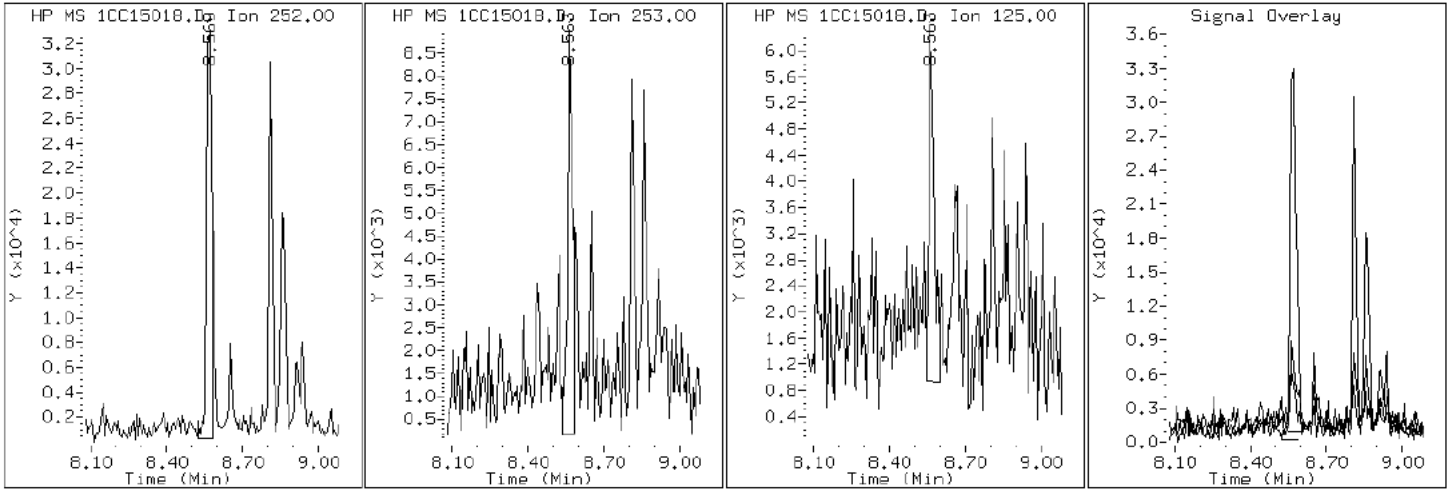
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

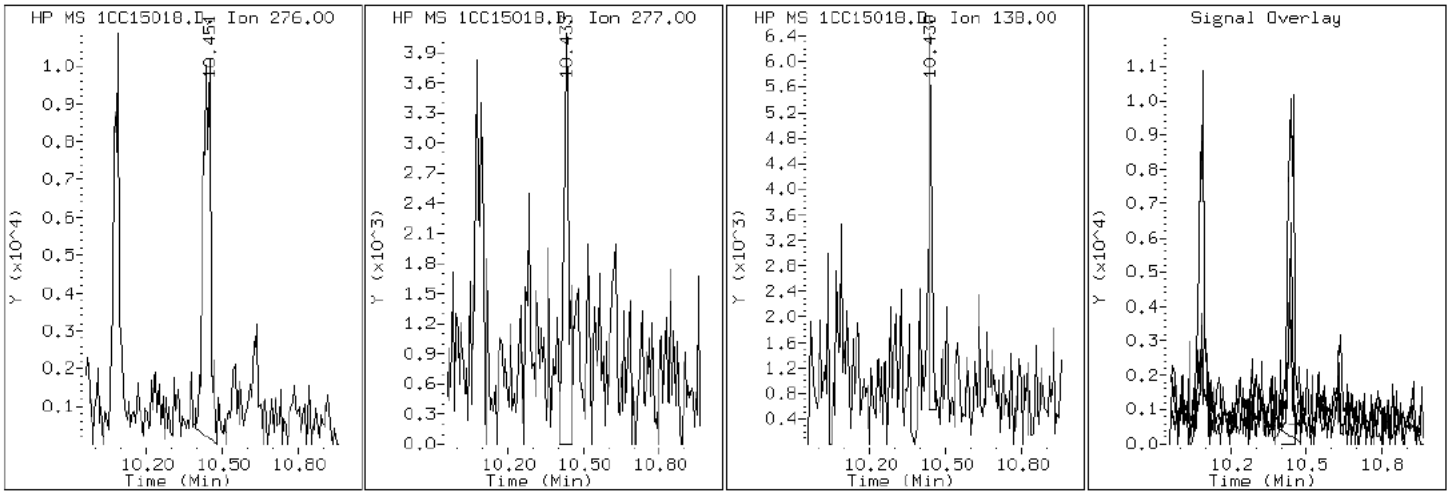
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

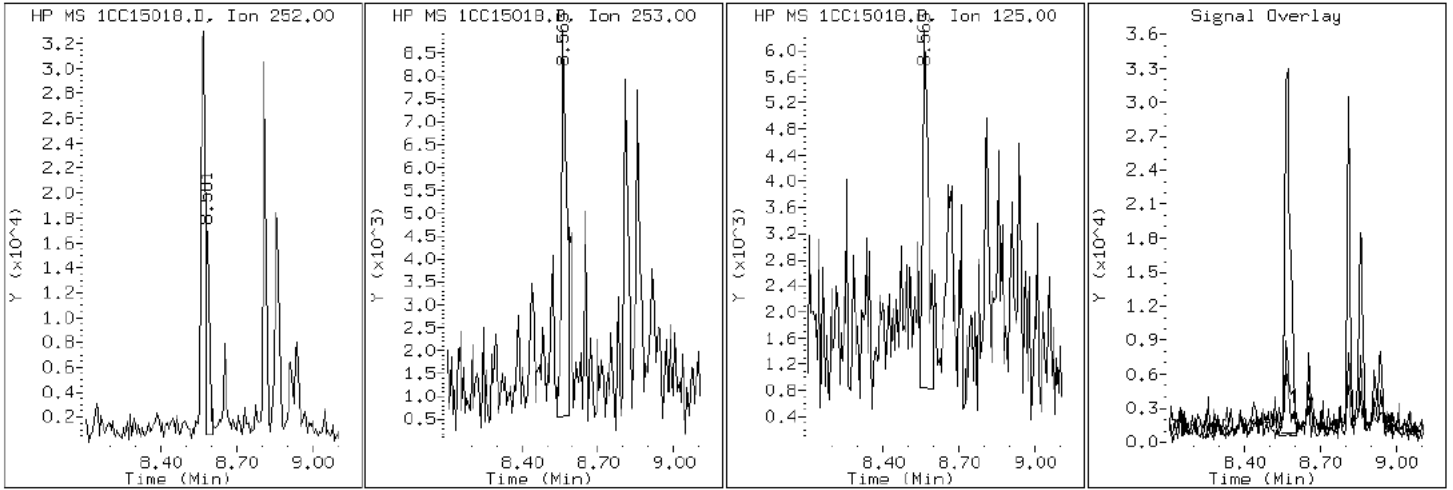
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

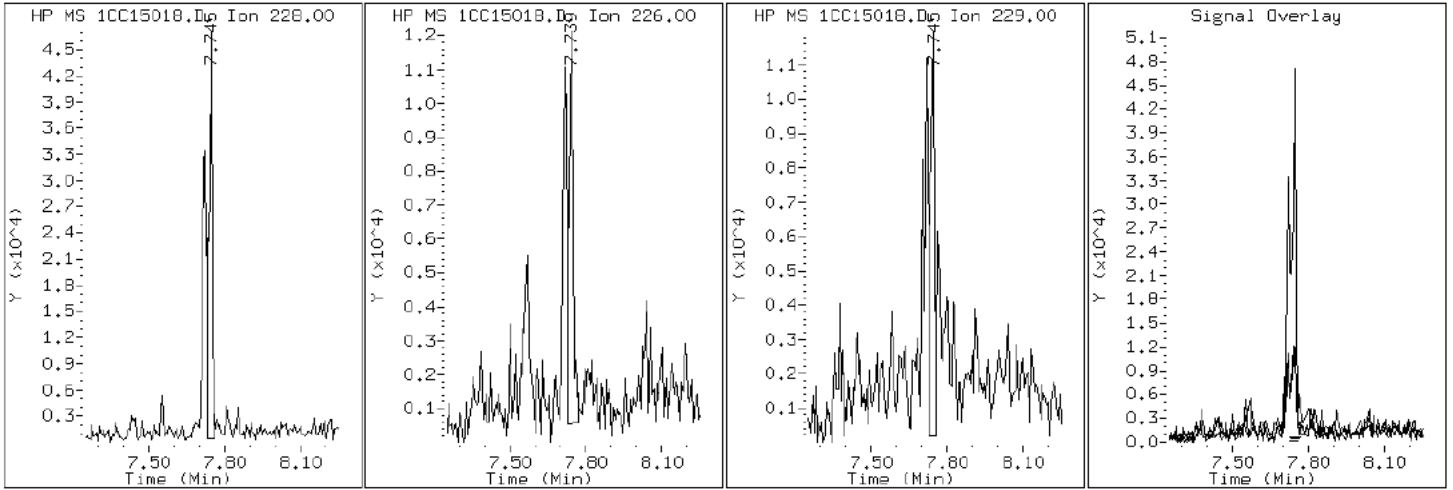
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

19 Chrysene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

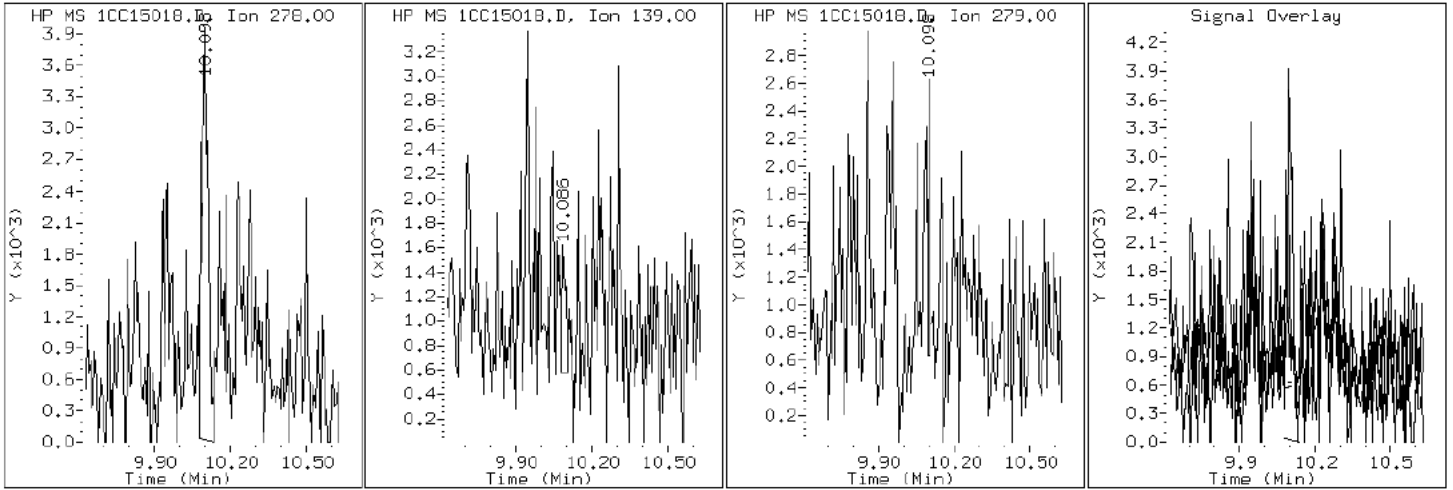
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

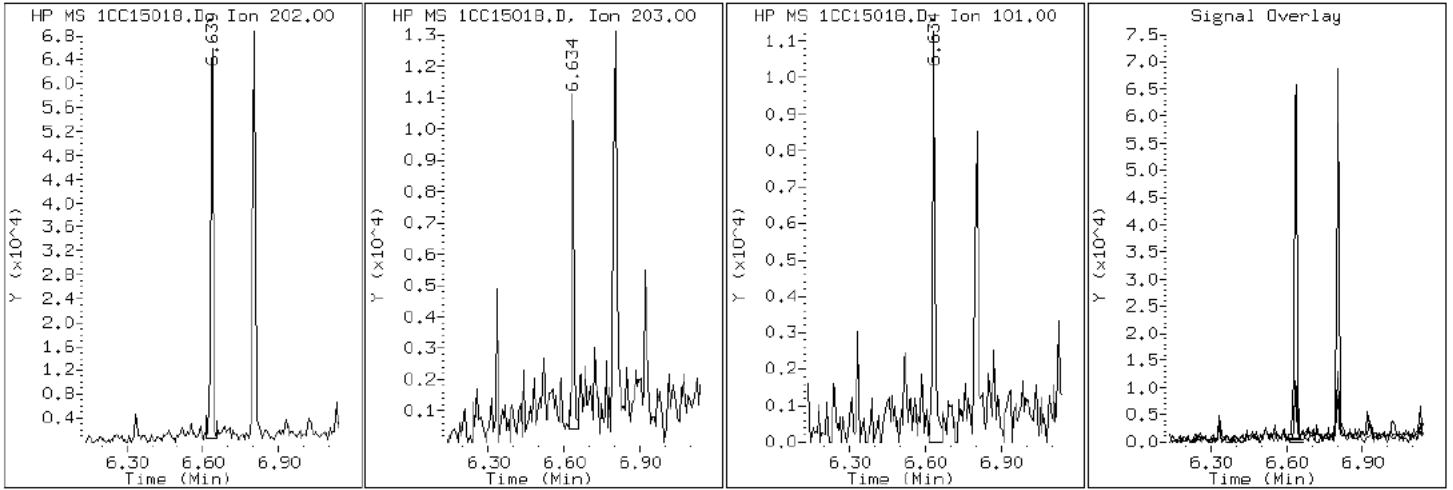
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

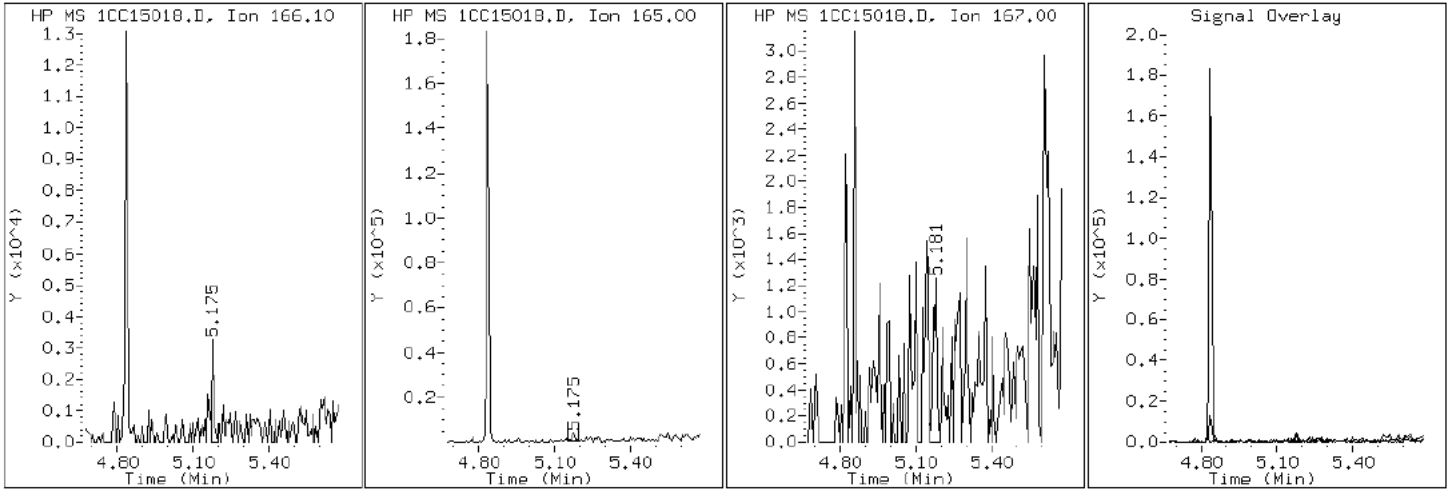
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

9 Fluorene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

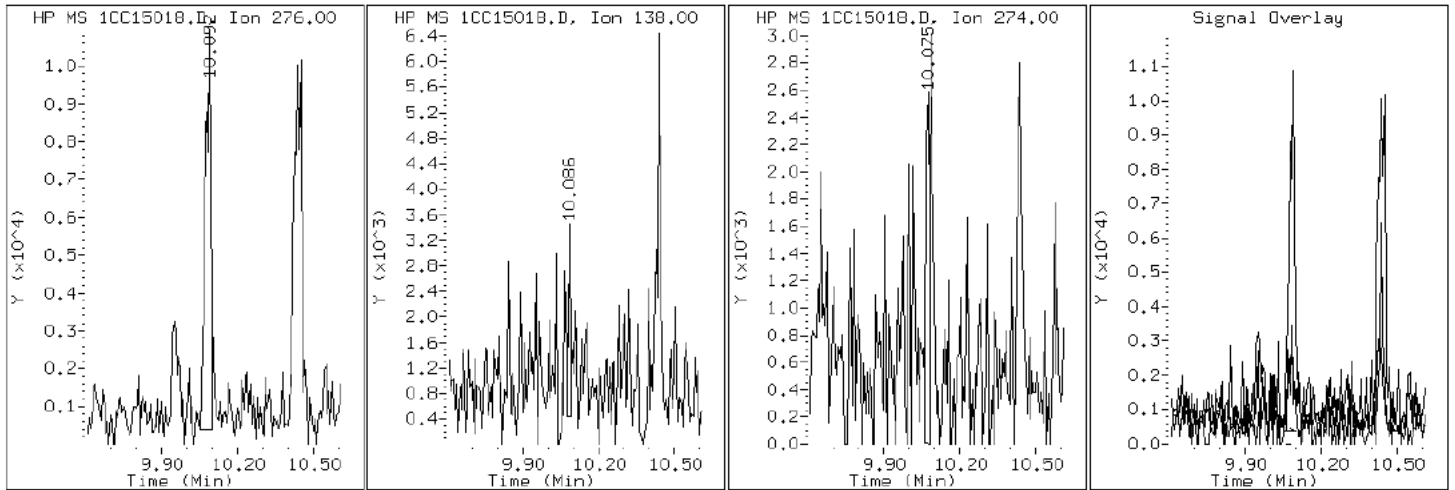
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

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



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

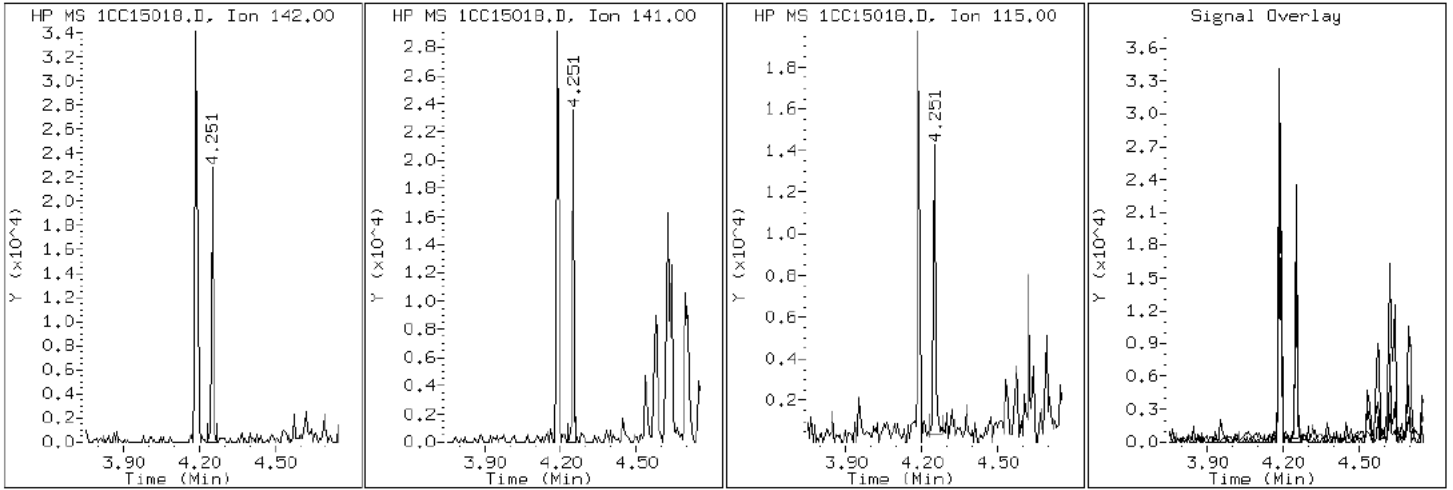
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

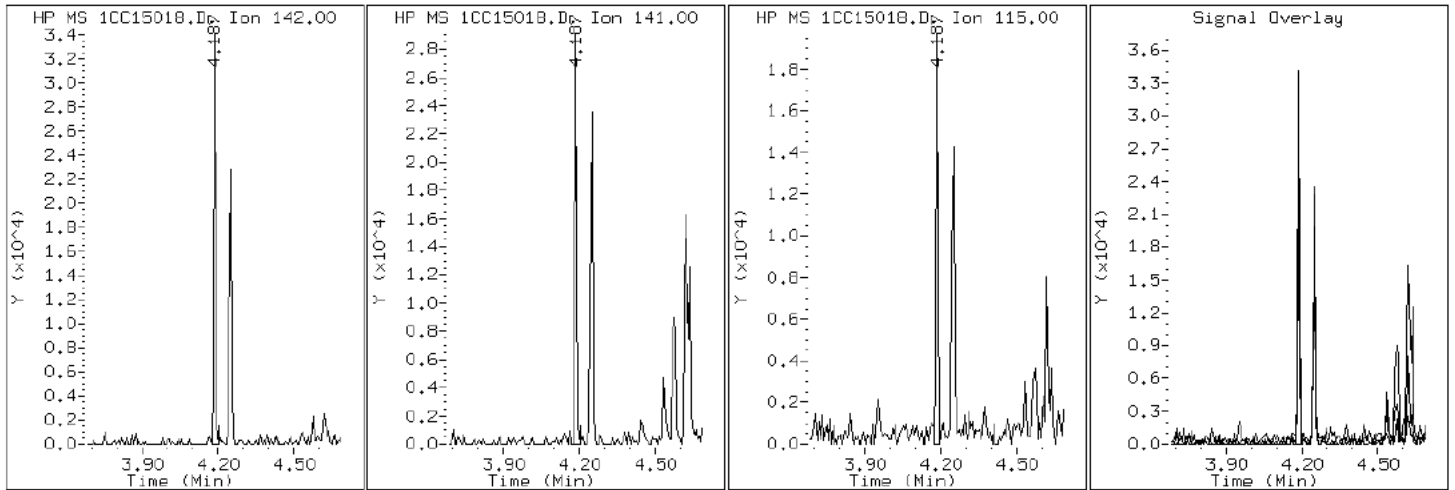
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

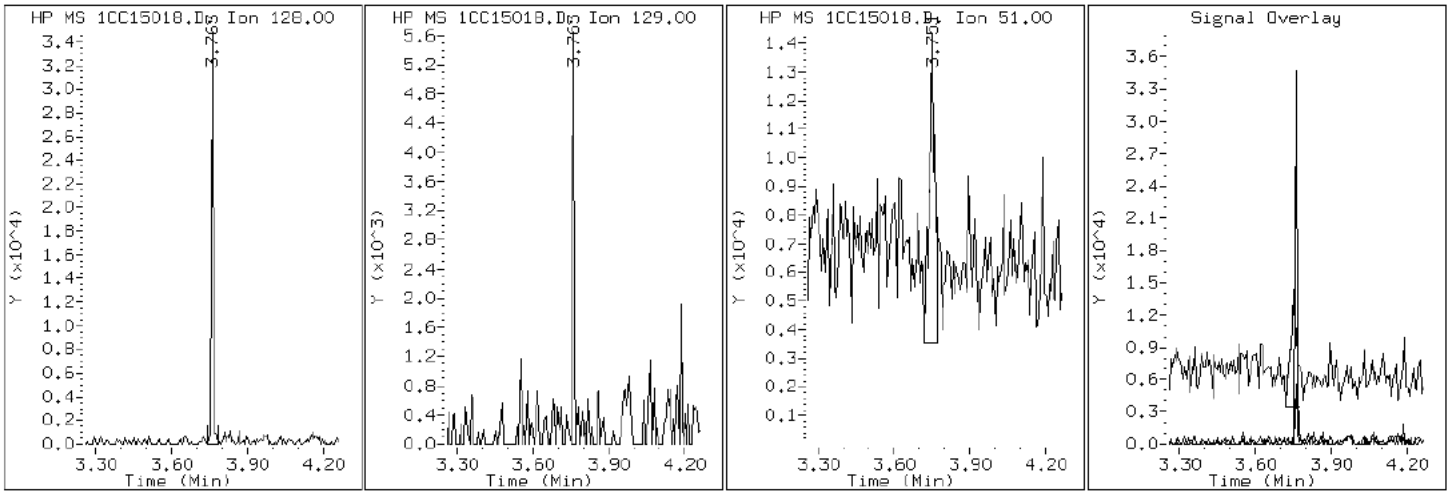
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

2 Naphthalene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

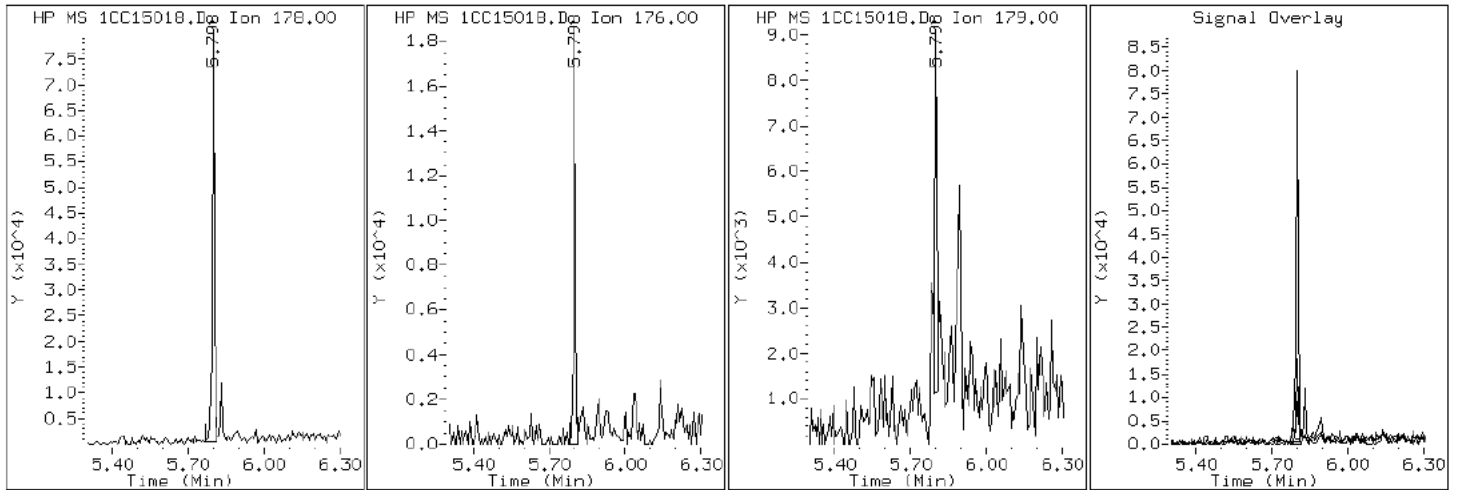
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15018.D

Date: 15-MAR-2013 20:31

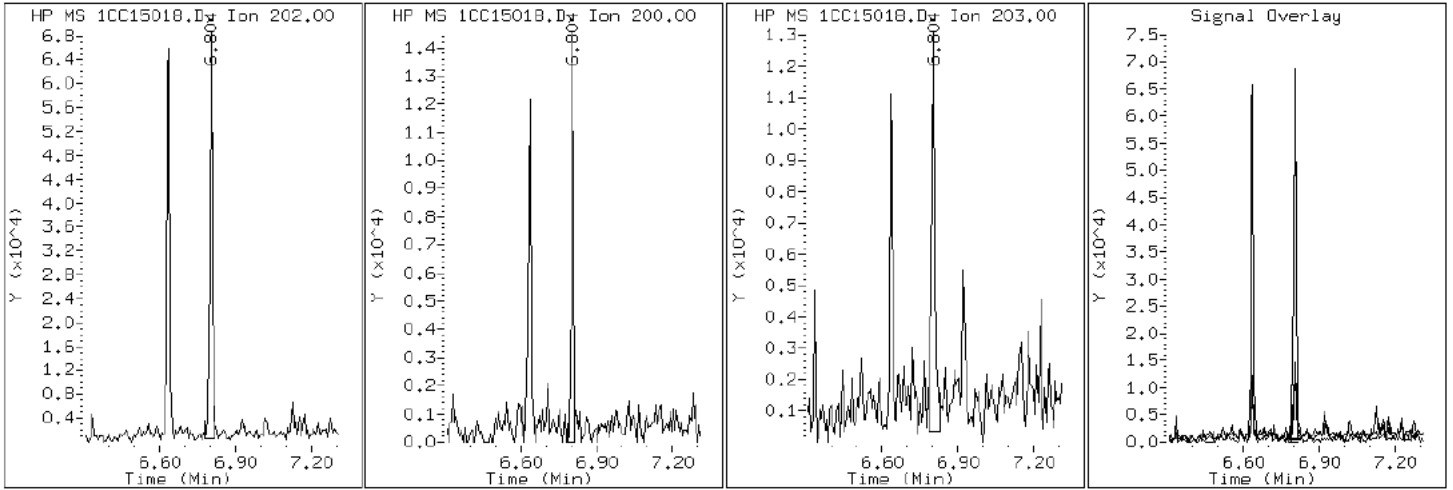
Client ID: CV0518A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-29-a

Operator: SCC

16 Pyrene

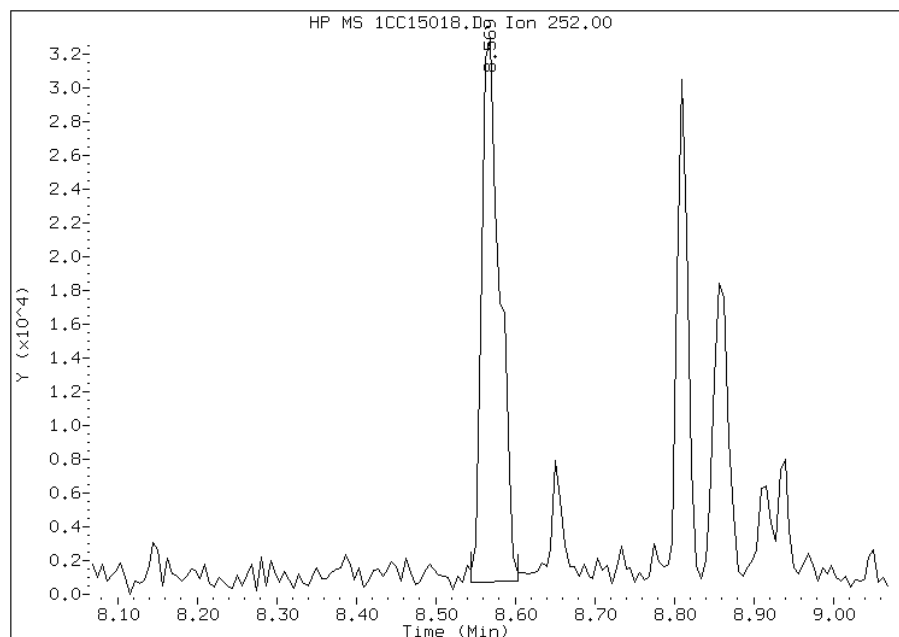


Manual Integration Report

Data File: 1CC15018.D
Inj. Date and Time: 15-MAR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: CV0518A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

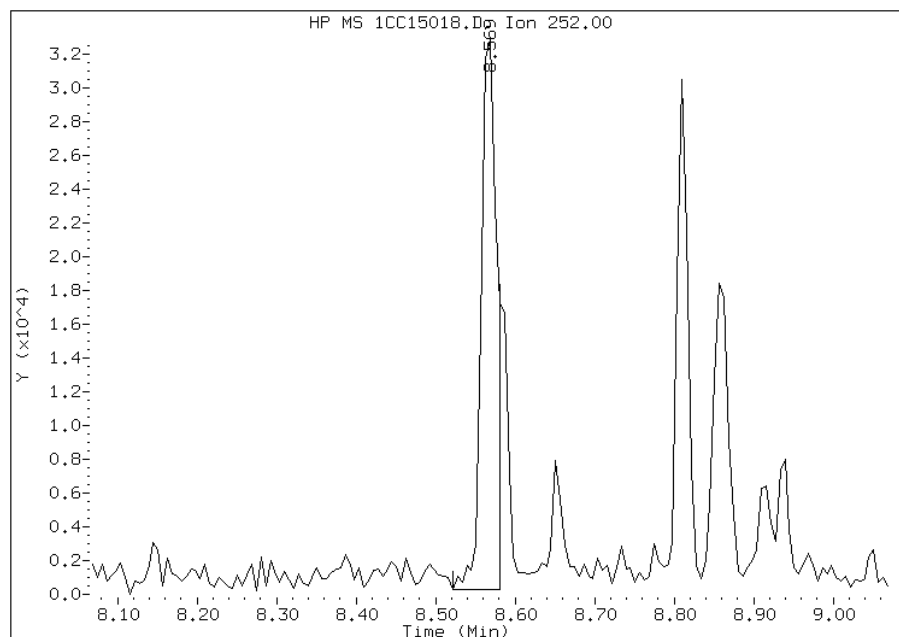
Processing Integration Results

RT: 8.57
Response: 50952
Amount: 1
Conc: 421



Manual Integration Results

RT: 8.57
Response: 44504
Amount: 1
Conc: 368



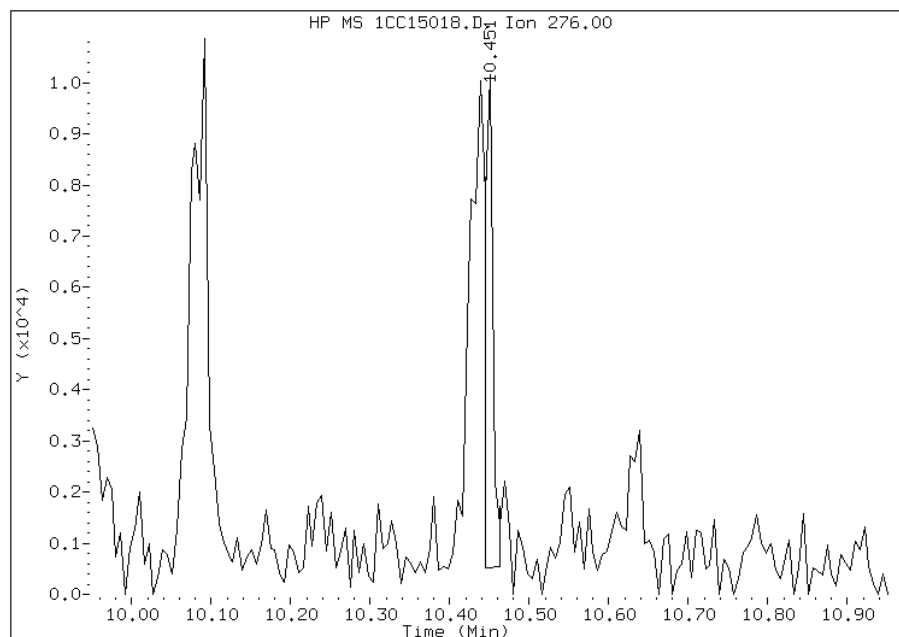
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15018.D
Inj. Date and Time: 15-MAR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: CV0518A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

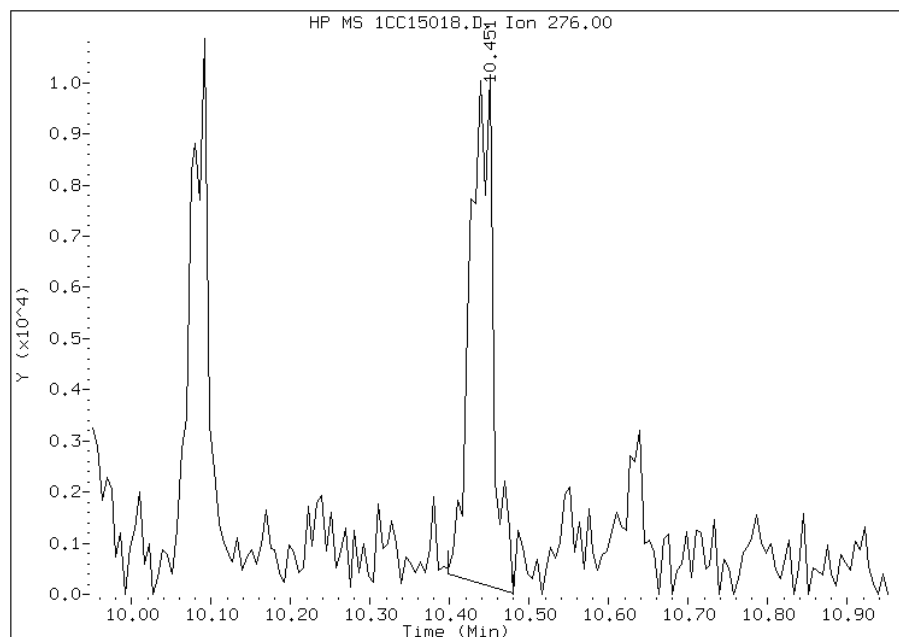
Processing Integration Results

RT: 10.45
Response: 6847
Amount: 0
Conc: 59



Manual Integration Results

RT: 10.45
Response: 20151
Amount: 1
Conc: 174



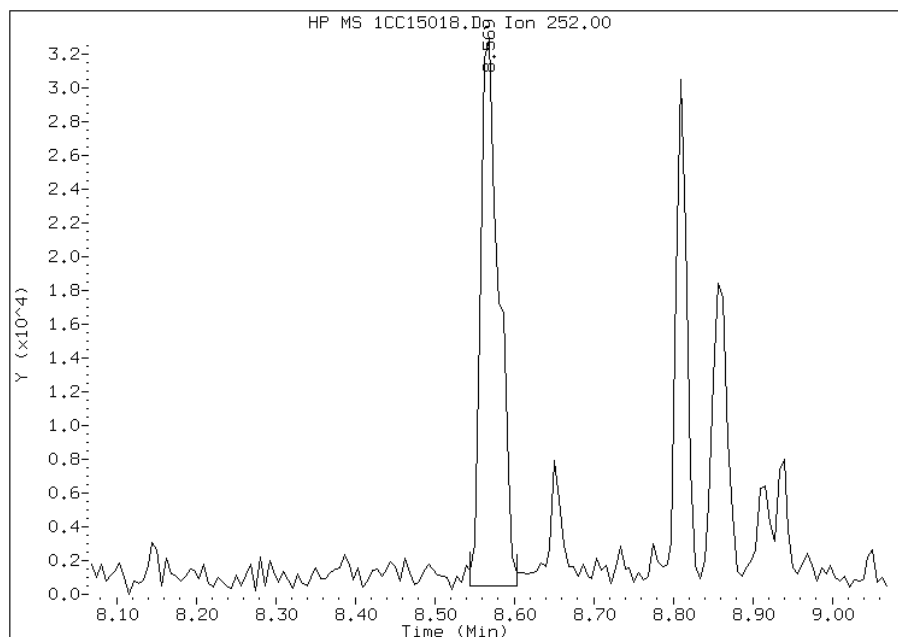
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15018.D
Inj. Date and Time: 15-MAR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: CV0518A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

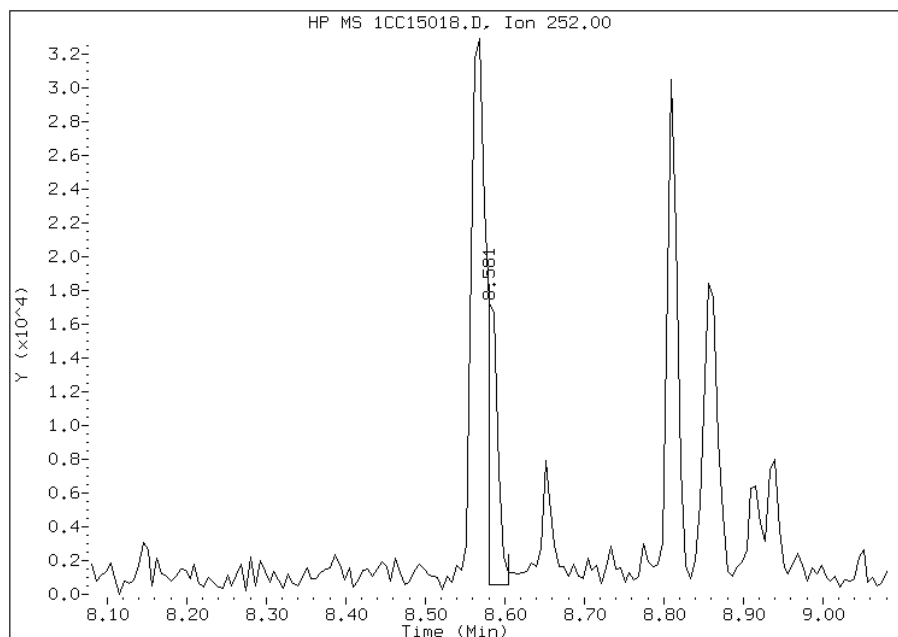
Processing Integration Results

RT: 8.57
Response: 51871
Amount: 1
Conc: 418



Manual Integration Results

RT: 8.58
Response: 14749
Amount: 0
Conc: 119



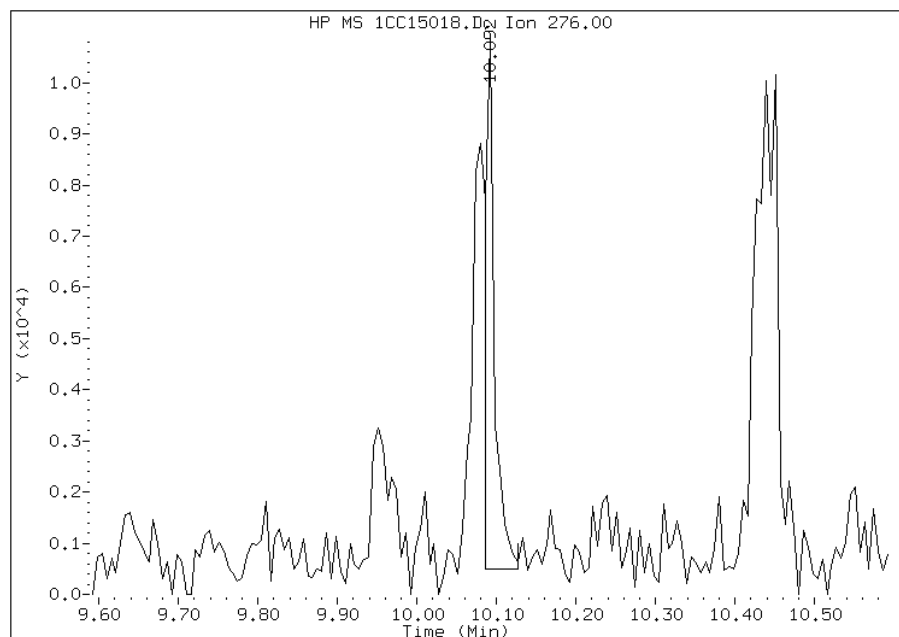
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15018.D
Inj. Date and Time: 15-MAR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: CV0518A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

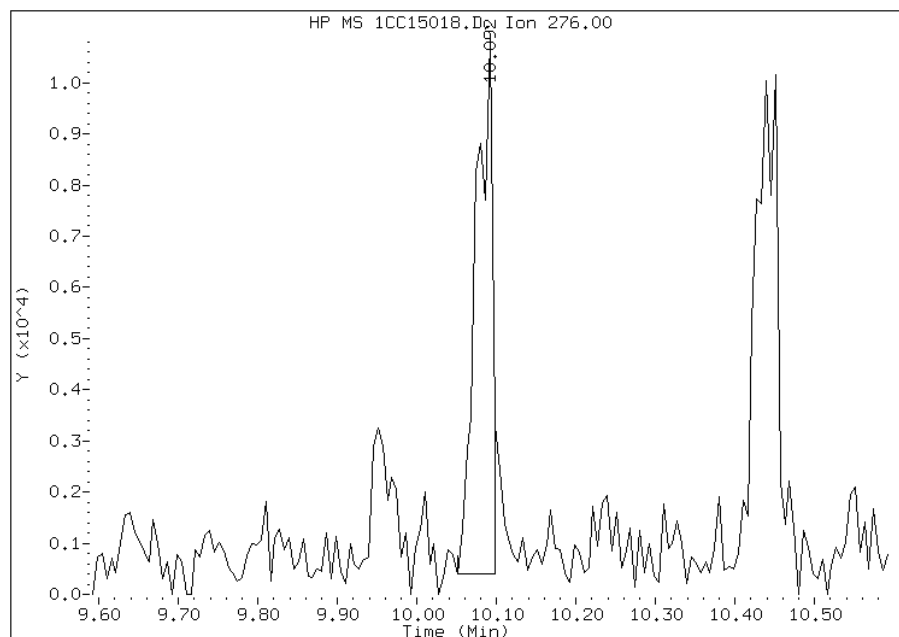
Processing Integration Results

RT: 10.09
Response: 8522
Amount: 0
Conc: 77



Manual Integration Results

RT: 10.09
Response: 15319
Amount: 0
Conc: 139



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:51
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0518B-CS Lab Sample ID: 680-88118-30
 Matrix: Solid Lab File ID: 1CC15019.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 15:00
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.93(g) Date Analyzed: 03/15/2013 20:49
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	300		200	25
120-12-7	Anthracene	200		42	21
56-55-3	Benzo[a]anthracene	1700		40	20
50-32-8	Benzo[a]pyrene	1300		52	26
205-99-2	Benzo[b]fluoranthene	2100		61	31
191-24-2	Benzo[g,h,i]perylene	850		100	22
207-08-9	Benzo[k]fluoranthene	870		40	18
218-01-9	Chrysene	1600		45	23
53-70-3	Dibenz(a,h)anthracene	230		100	21
206-44-0	Fluoranthene	2900		100	20
86-73-7	Fluorene	47	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	680		100	36
90-12-0	1-Methylnaphthalene	290		200	22
91-57-6	2-Methylnaphthalene	260		200	36
91-20-3	Naphthalene	240		200	22
85-01-8	Phenanthrene	640		40	20
129-00-0	Pyrene	3000		100	19

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\1C031513.b\1CC15019.D
 Lab Smp Id: 680-88118-A-30-A Client Smp ID: CV0518B-CS
 Inj Date : 15-MAR-2013 20:49
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-30-a
 Misc Info : 680-88118-A-30-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 19
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	19.683	% 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		3.751	3.751	(1.000)	1186034	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	930473	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1679479	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	46428	1.83095	610.7613
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1903455	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1833655	40.0000	
2 Naphthalene	128		3.763	3.763	(1.003)	21886	0.70881	236.4428
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	16238	0.78839	262.9892
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	16357	0.87199	290.8738
5 Acenaphthylene	152		4.751	4.751	(0.983)	33463	0.89202	297.5558
9 Fluorene	166		5.174	5.174	(1.071)	4142	0.14046	46.8545(Q)
11 Phenanthrene	178		5.798	5.804	(1.002)	93222	1.91961	640.3331
12 Anthracene	178		5.833	5.839	(1.008)	28979	0.61016	203.5330
13 Carbazole	167		5.939	5.945	(1.026)	9668	0.22900	76.3871

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	469482	8.82776	2944.7232
16 Pyrene	202	6.804	6.810	(0.880)	456325	8.92085	2975.7778
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	287367	5.23081	1744.8695
19 Chrysene	228	7.745	7.751	(1.002)	269688	4.90532	1636.2950
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	303743	6.33851	2114.3728(M)
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	127641	2.59651	866.1315(QMH)
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	186287	4.00219	1335.0333
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	88801	2.02803	676.5011(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	29428	0.68709	229.1976
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	116717	2.54814	849.9985

QC Flag Legend

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

Data File: 1CC15019.D

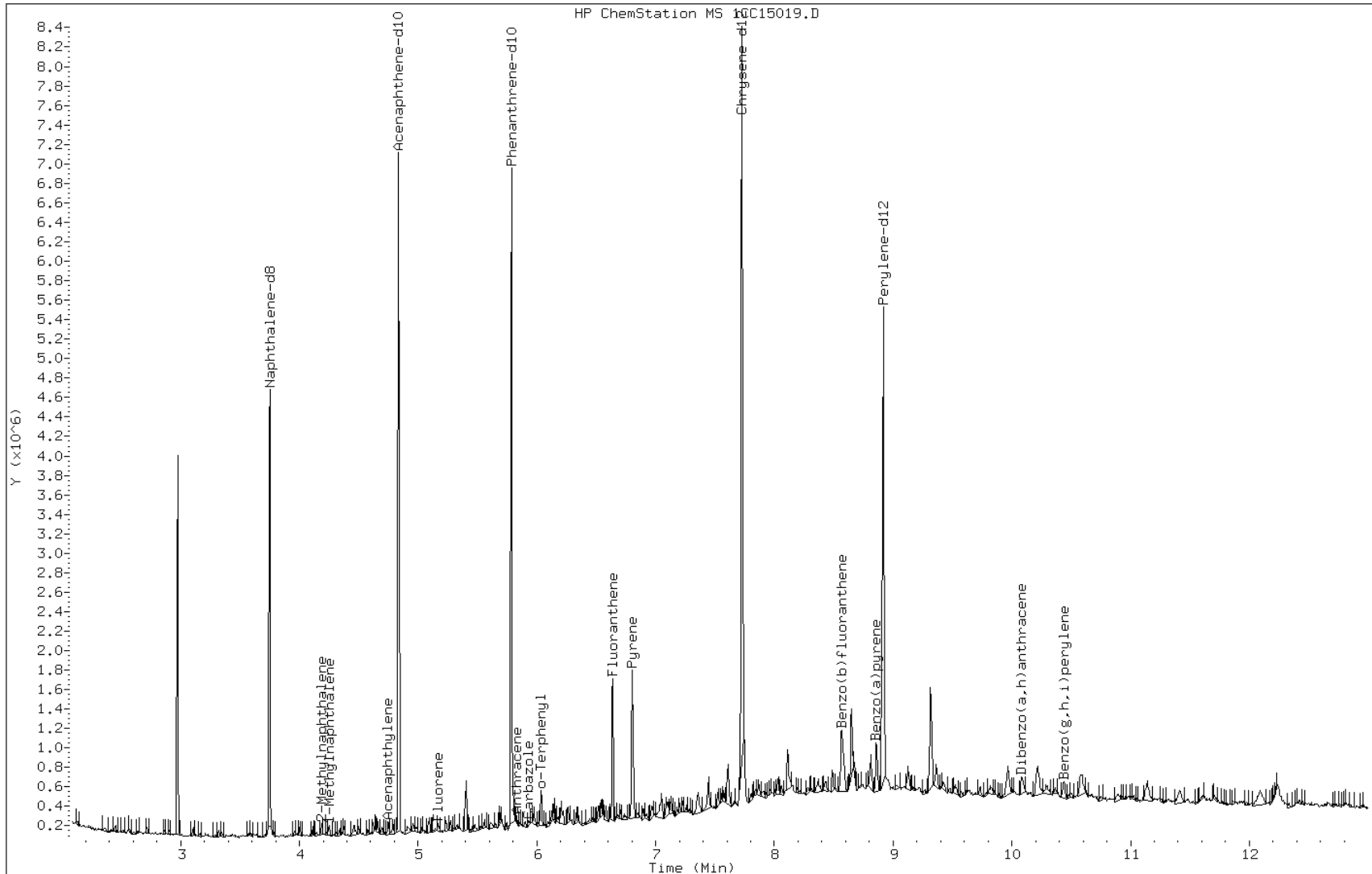
Date: 15-MAR-2013 20:49

Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

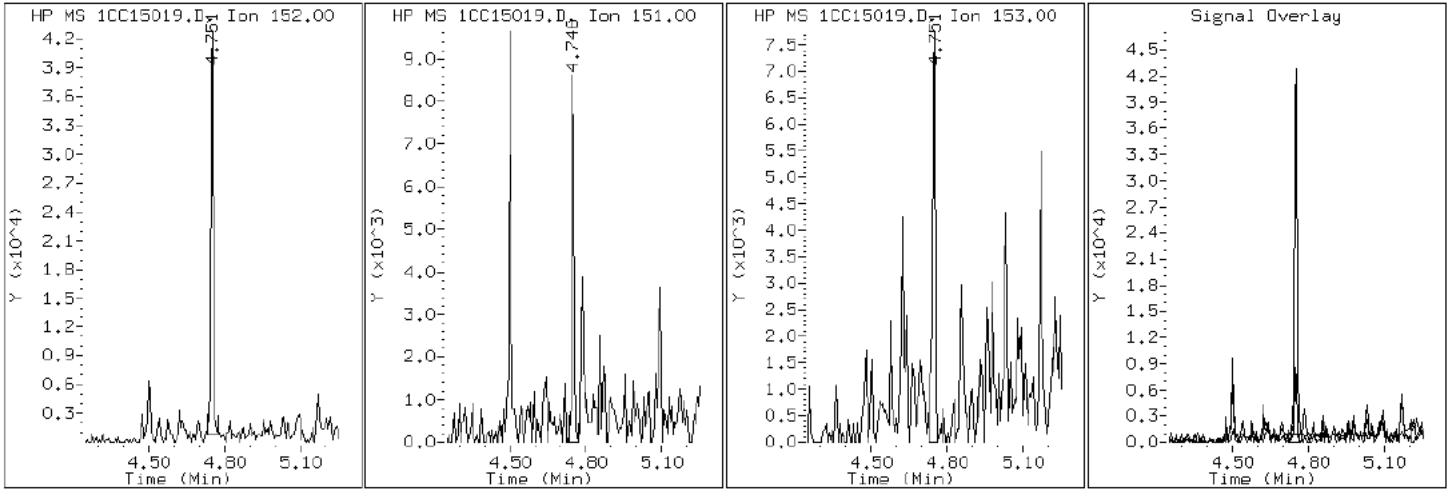
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

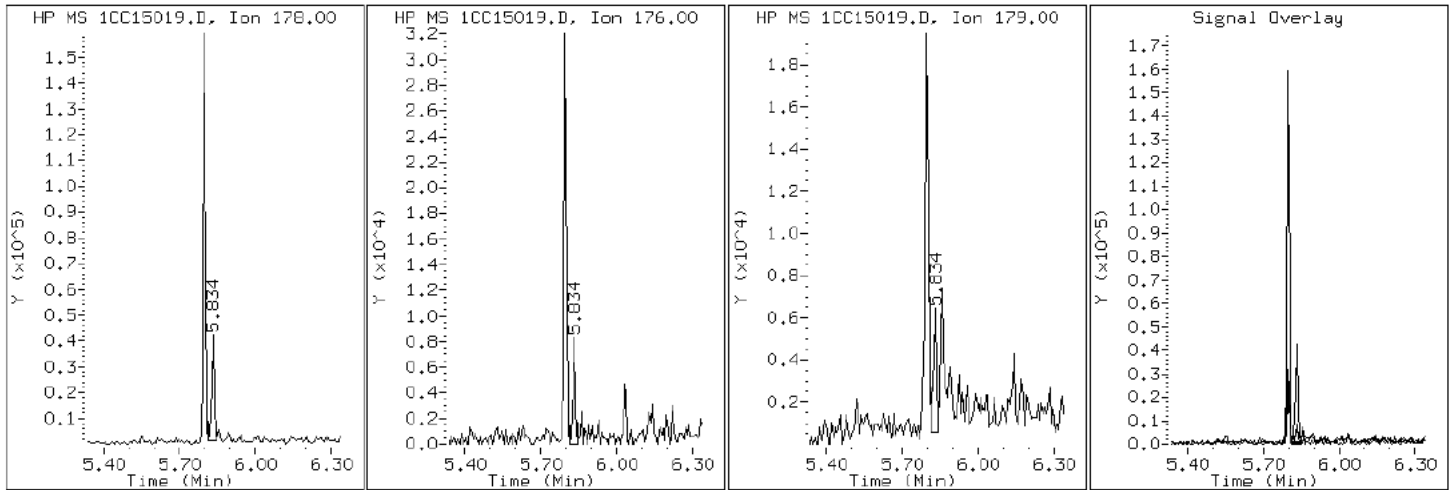
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

12 Anthracene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

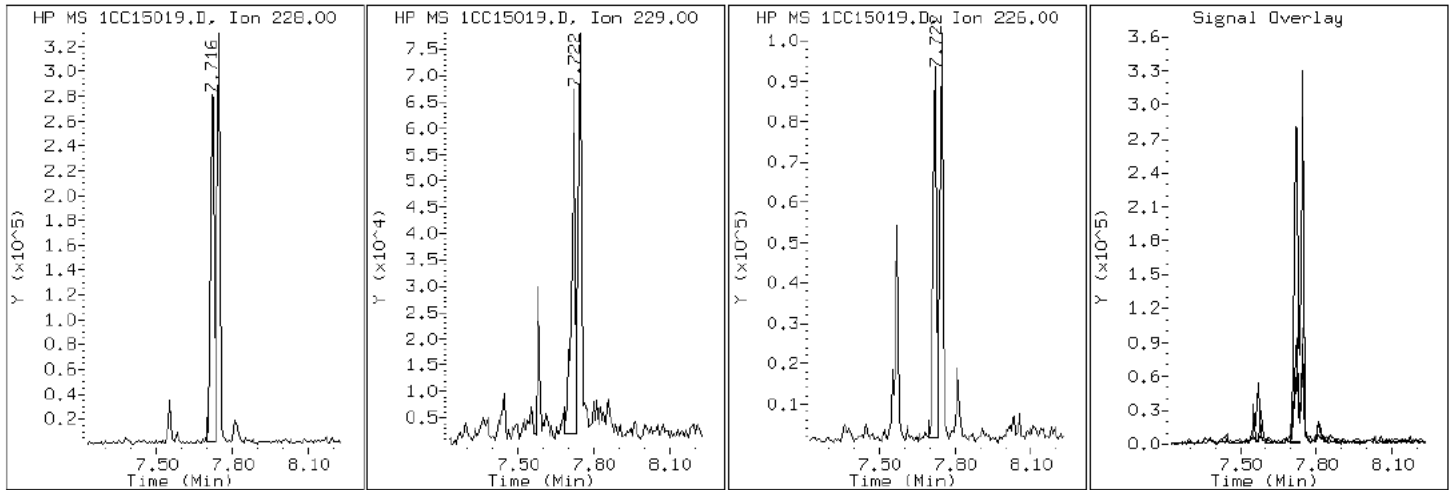
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

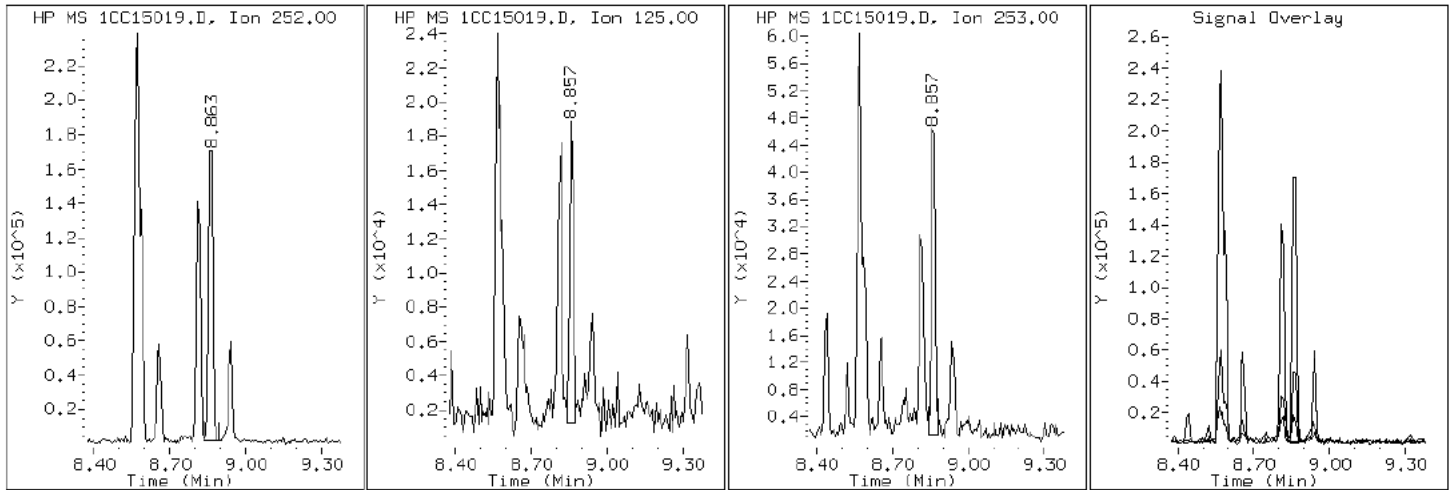
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

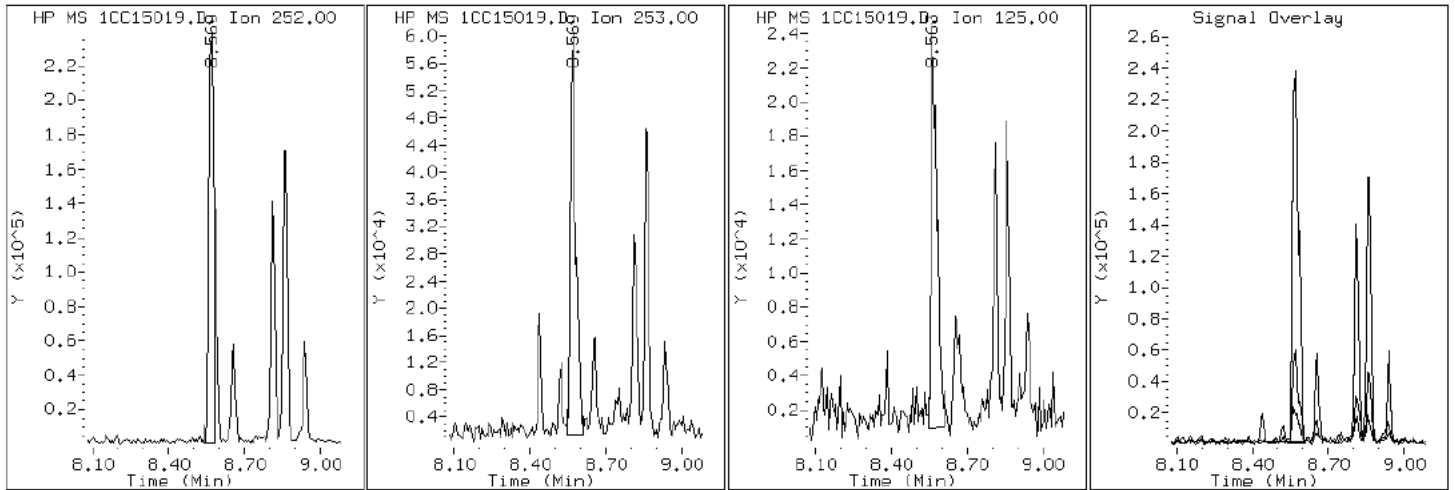
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

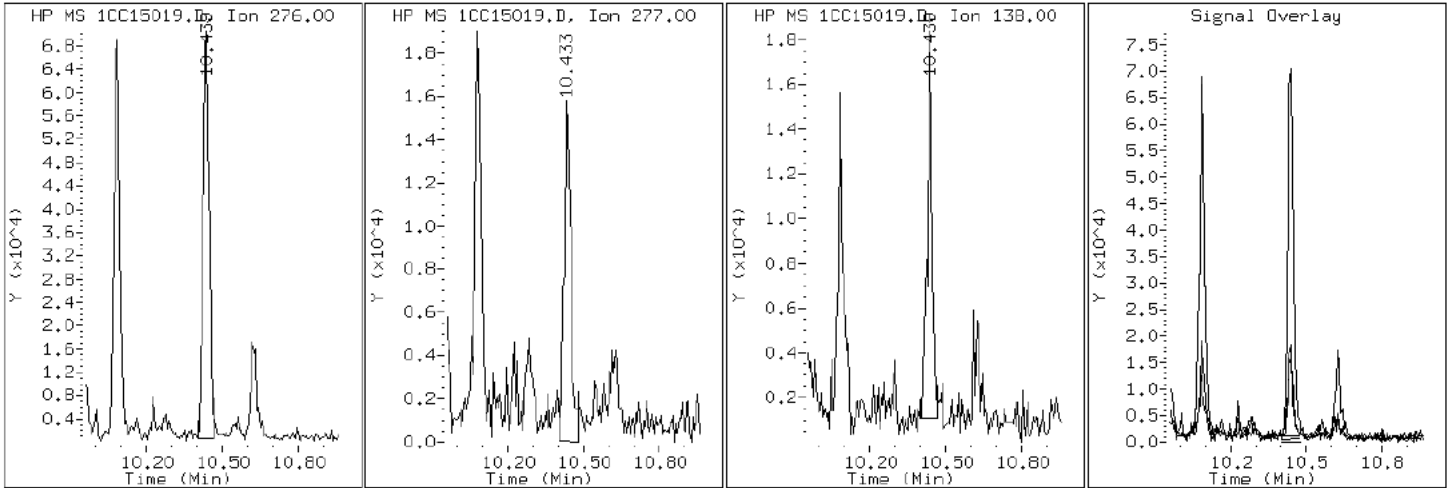
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

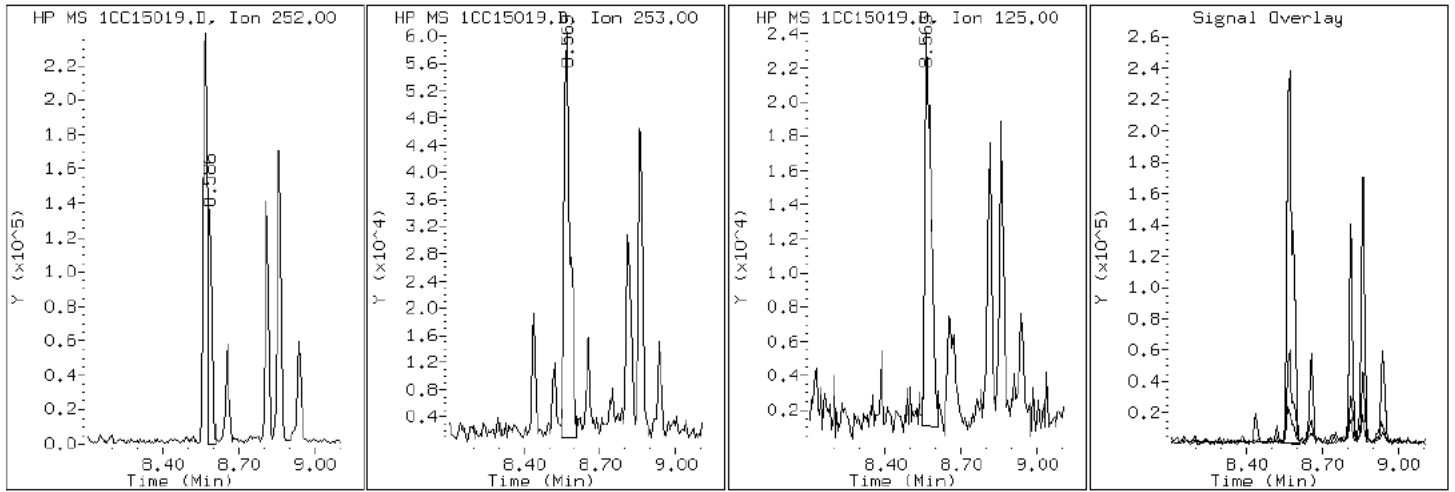
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

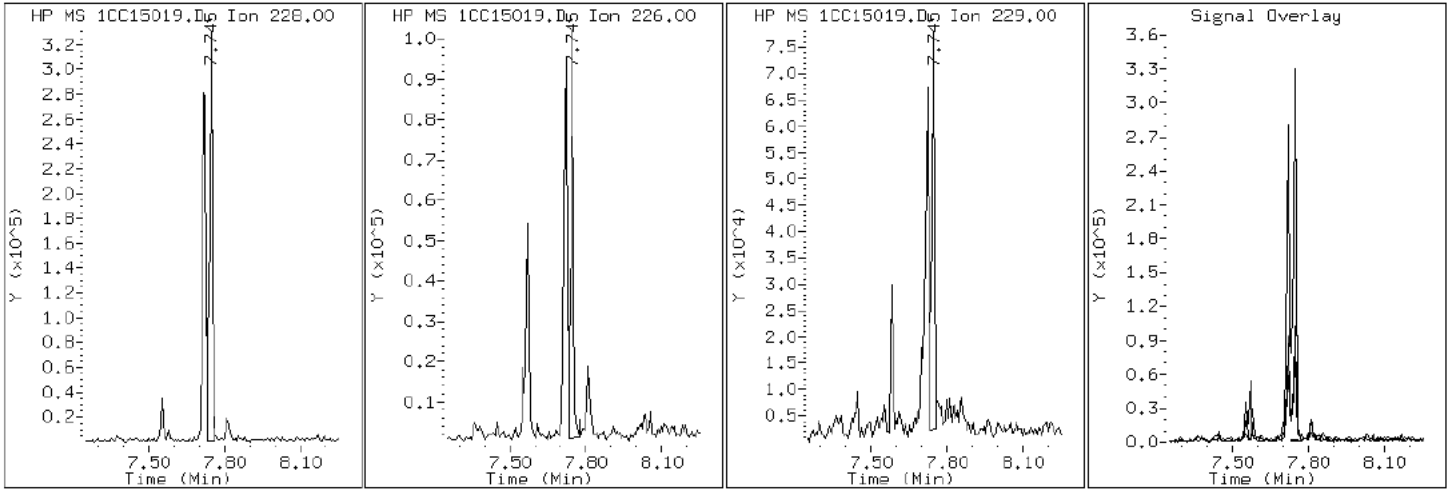
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

19 Chrysene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

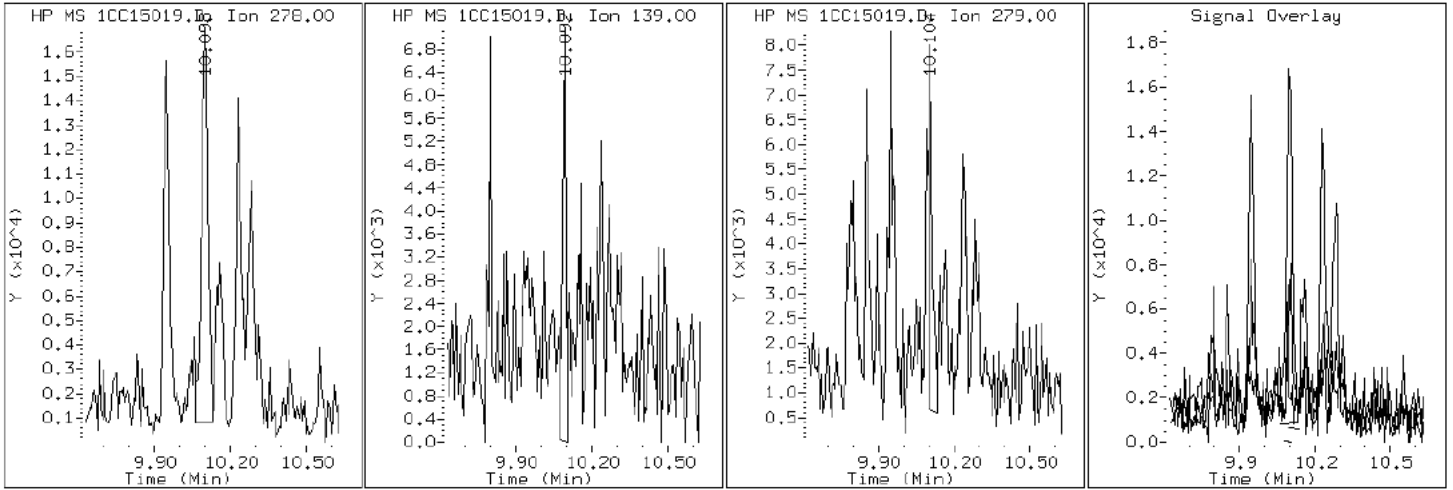
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

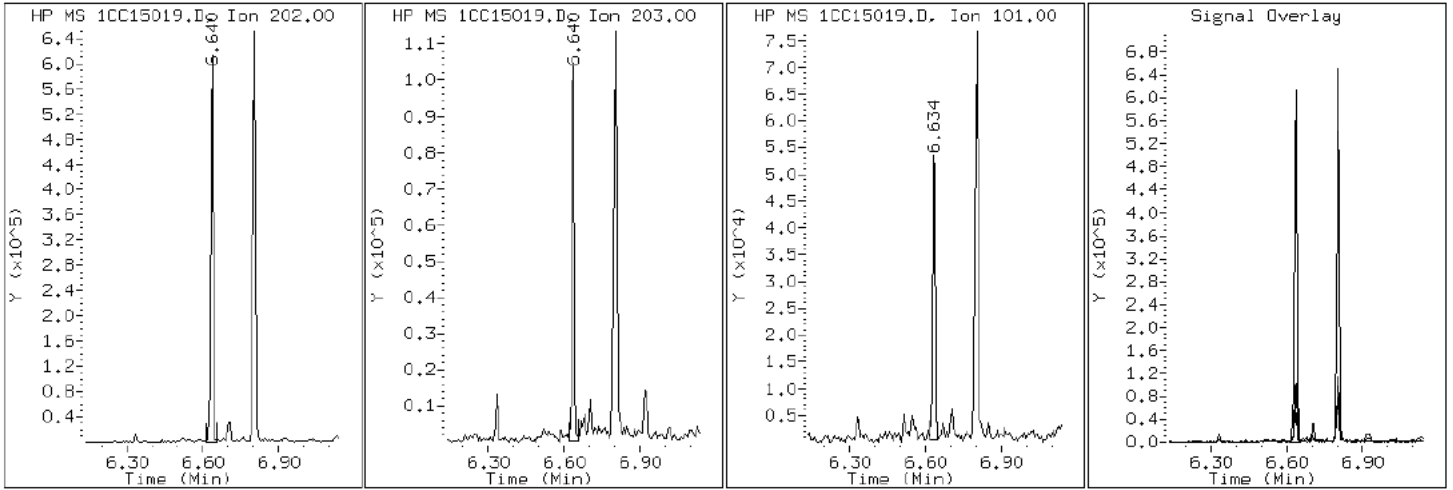
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

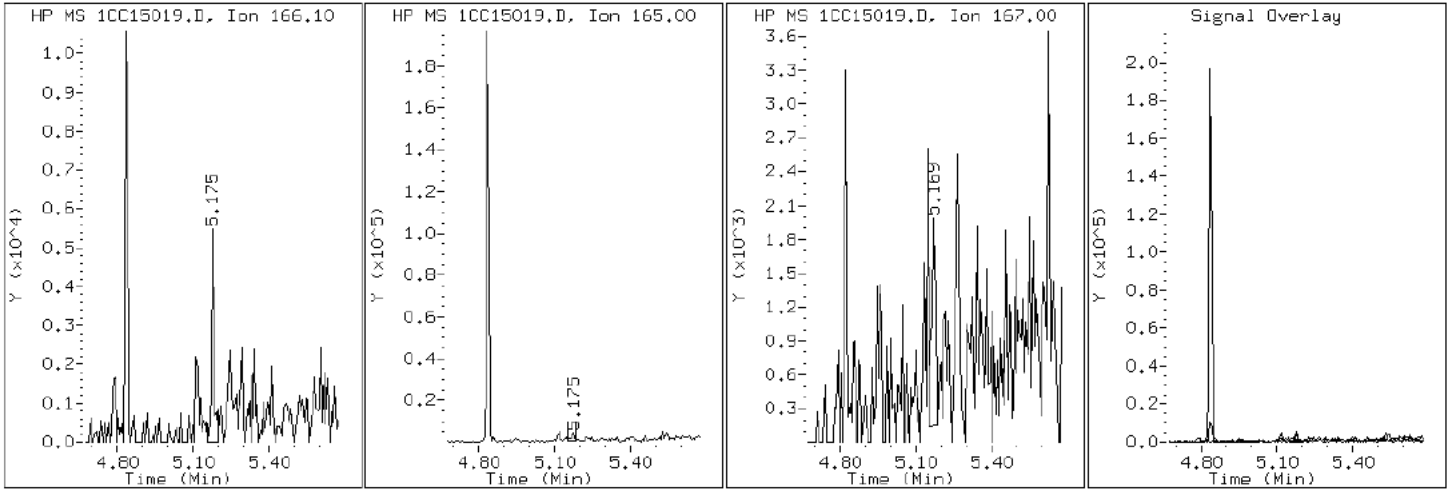
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

9 Fluorene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

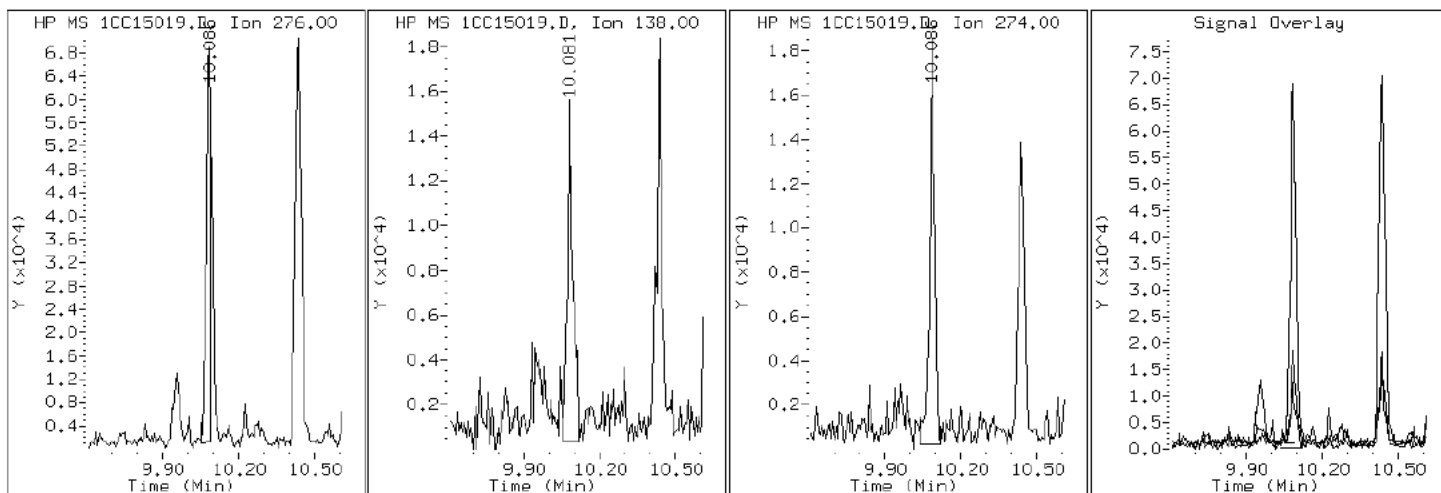
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

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



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

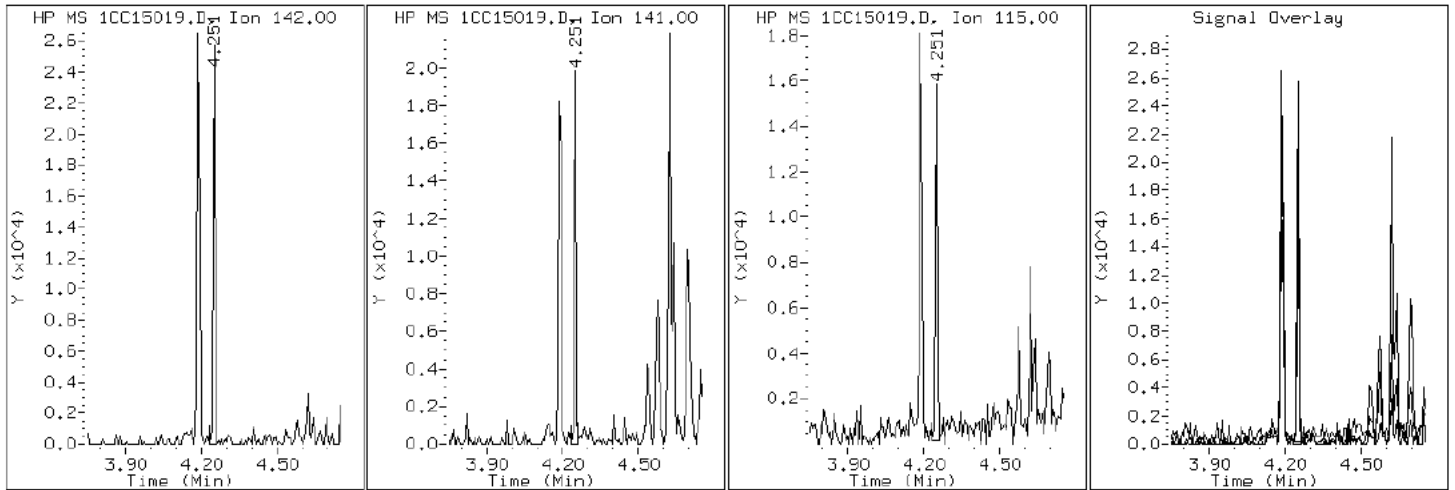
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

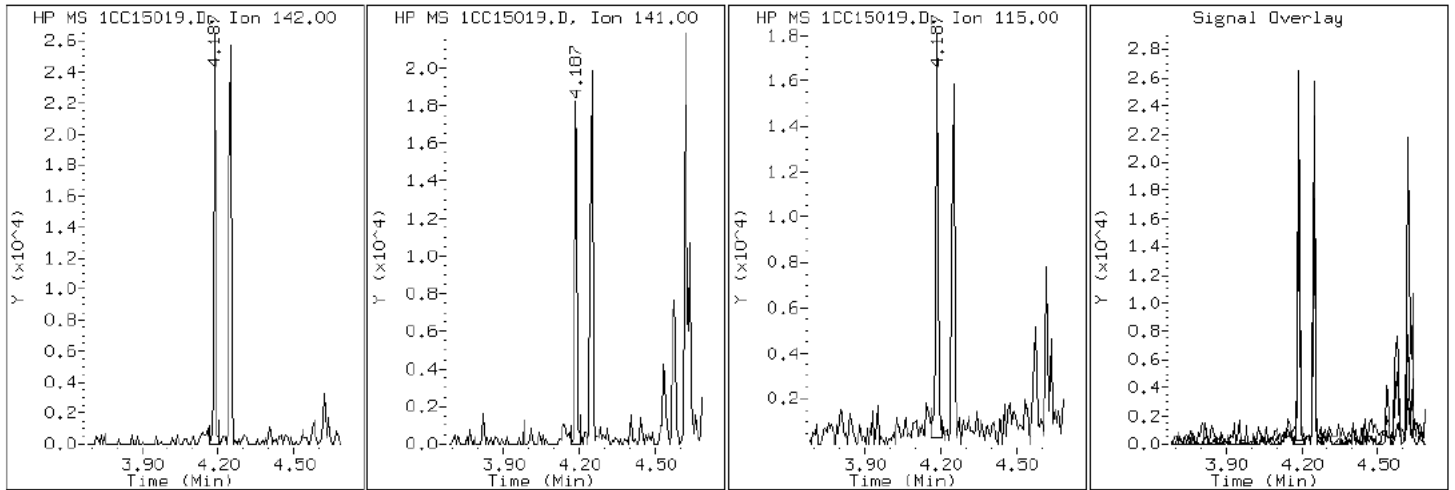
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

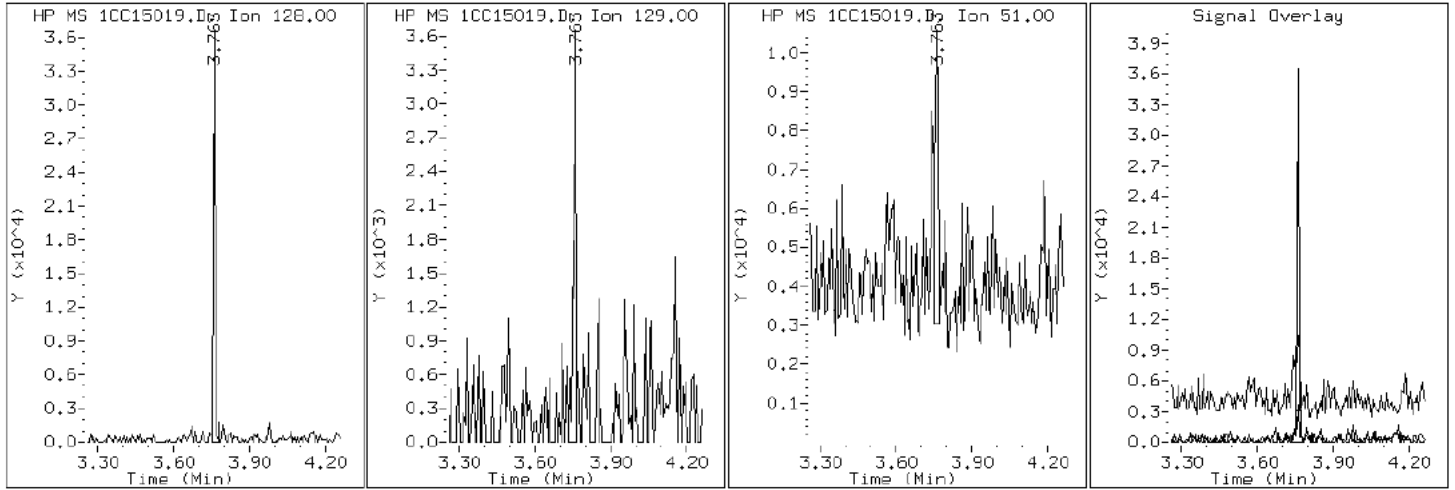
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

2 Naphthalene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

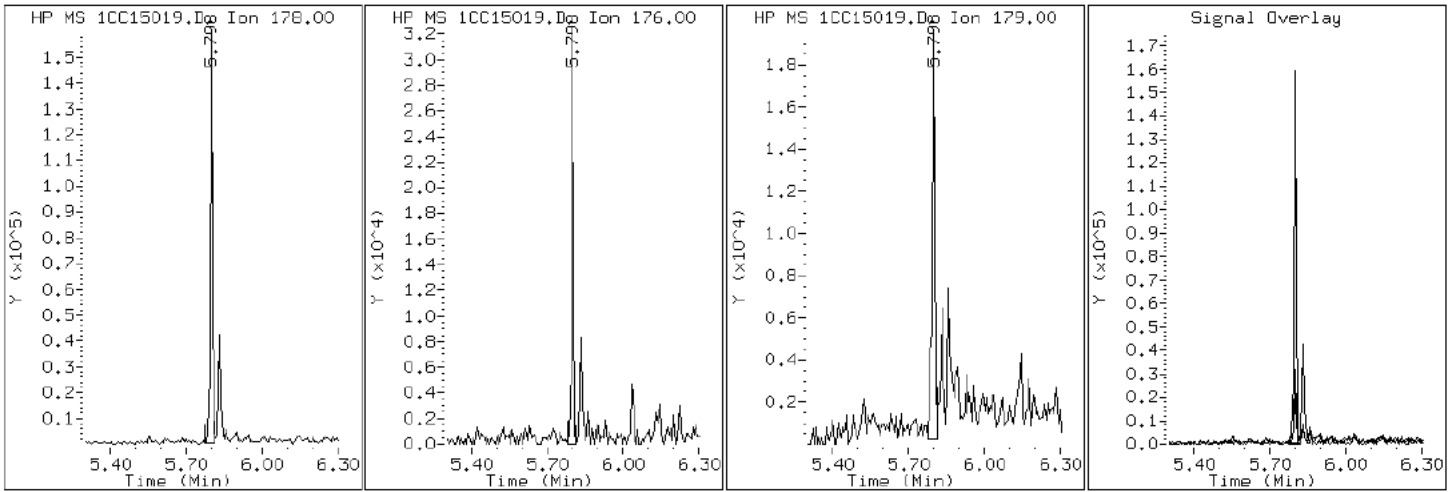
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15019.D

Date: 15-MAR-2013 20:49

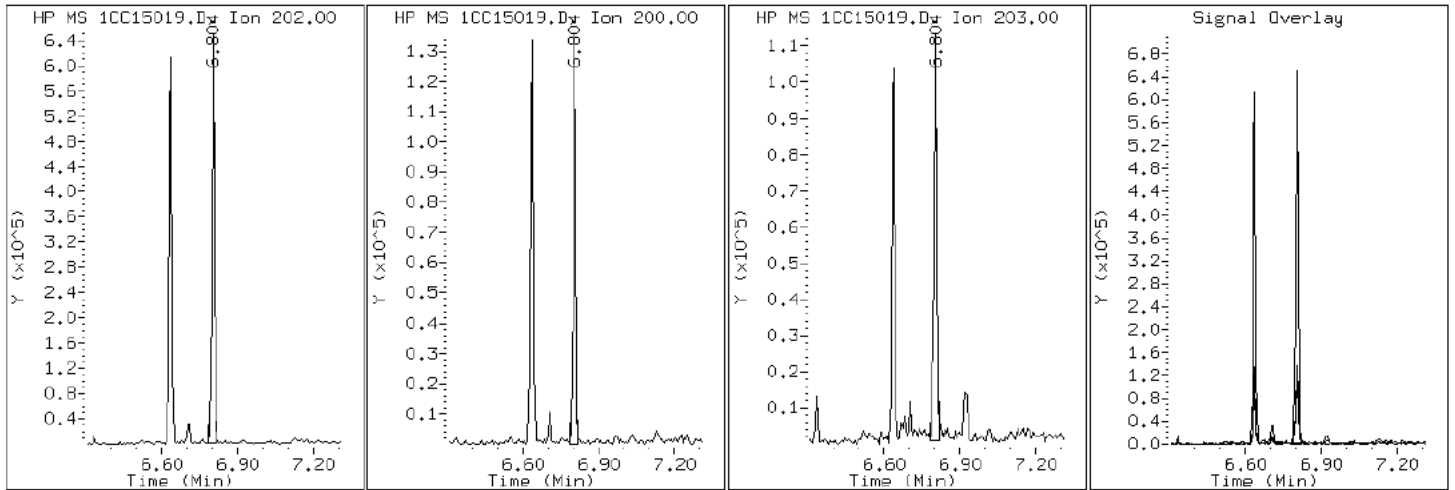
Client ID: CV0518B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-30-a

Operator: SCC

16 Pyrene

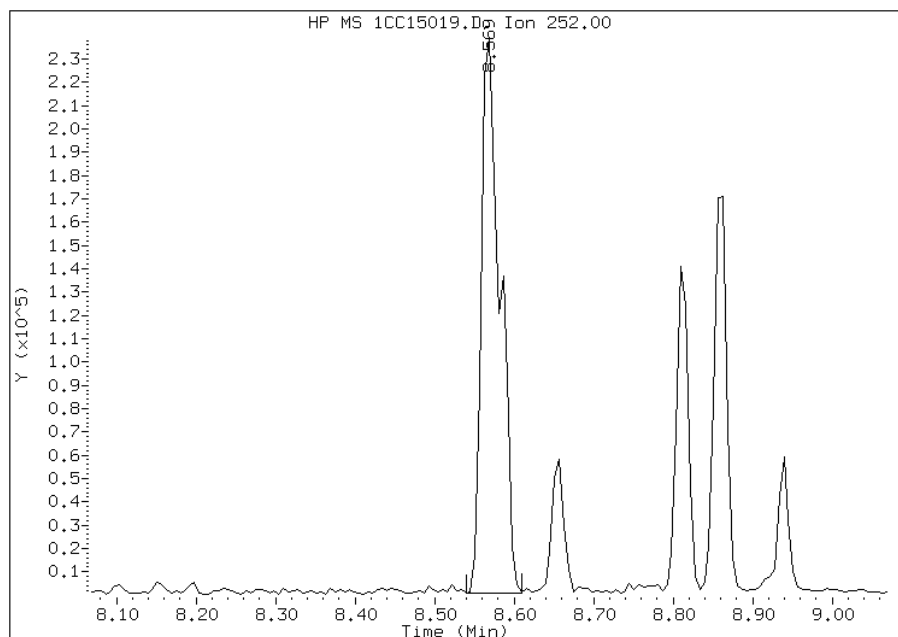


Manual Integration Report

Data File: 1CC15019.D
Inj. Date and Time: 15-MAR-2013 20:49
Instrument ID: BSMC5973.i
Client ID: CV0518B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

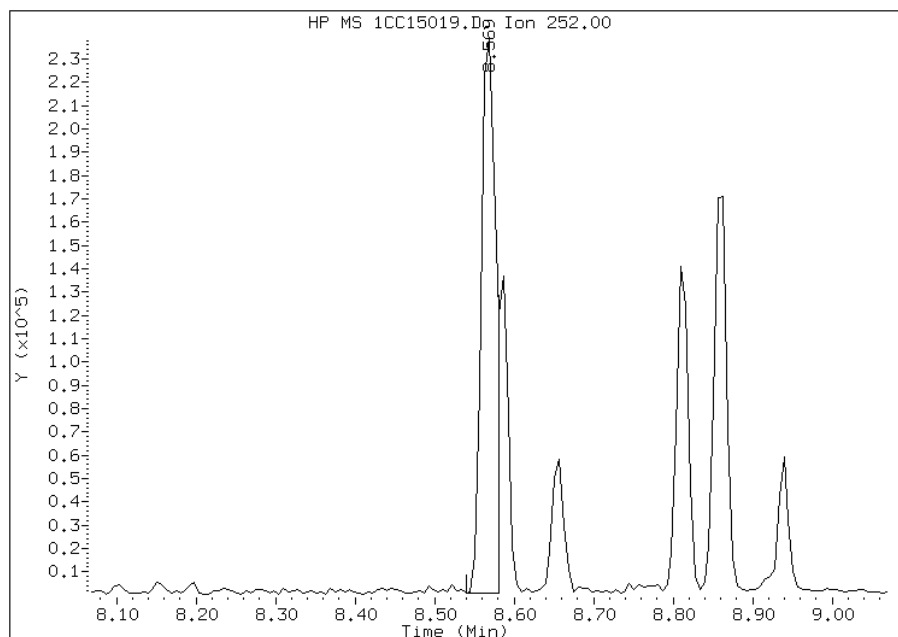
Processing Integration Results

RT: 8.57
Response: 387271
Amount: 8
Conc: 2696



Manual Integration Results

RT: 8.57
Response: 303743
Amount: 6
Conc: 2114



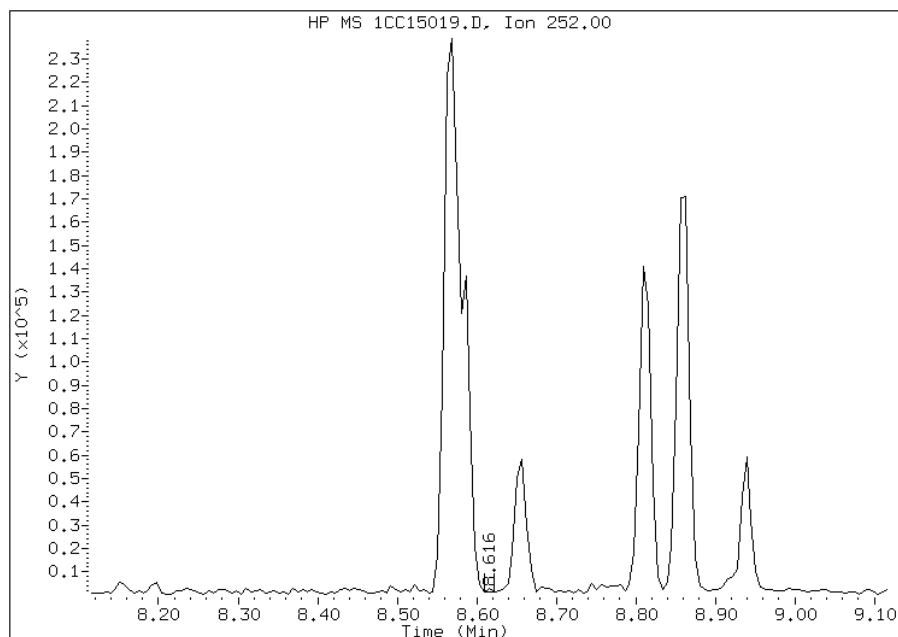
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15019.D
Inj. Date and Time: 15-MAR-2013 20:49
Instrument ID: BSMC5973.i
Client ID: CV0518B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

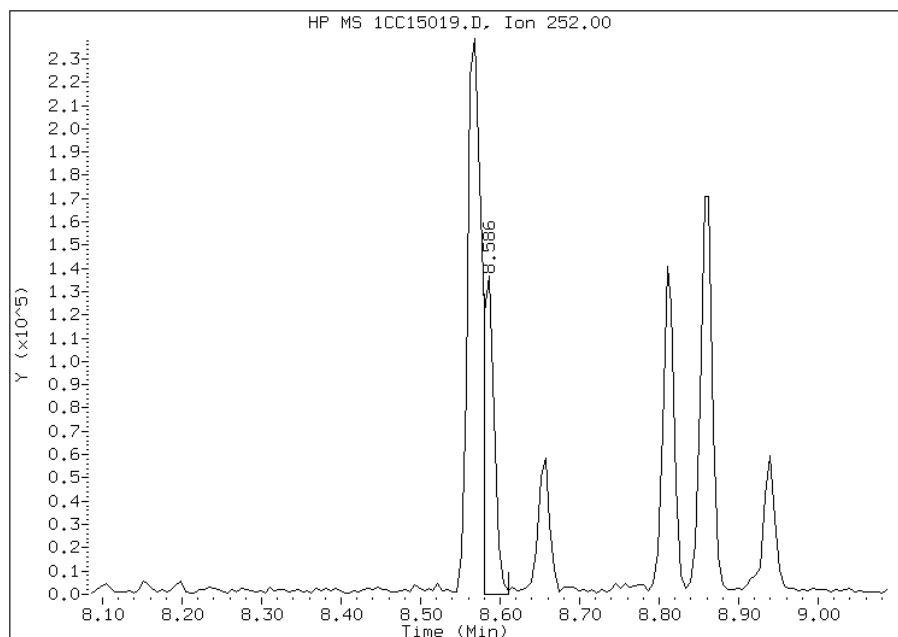
Processing Integration Results

RT: 8.62
Response: 562
Amount: 0
Conc: 4



Manual Integration Results

RT: 8.59
Response: 127641
Amount: 3
Conc: 866



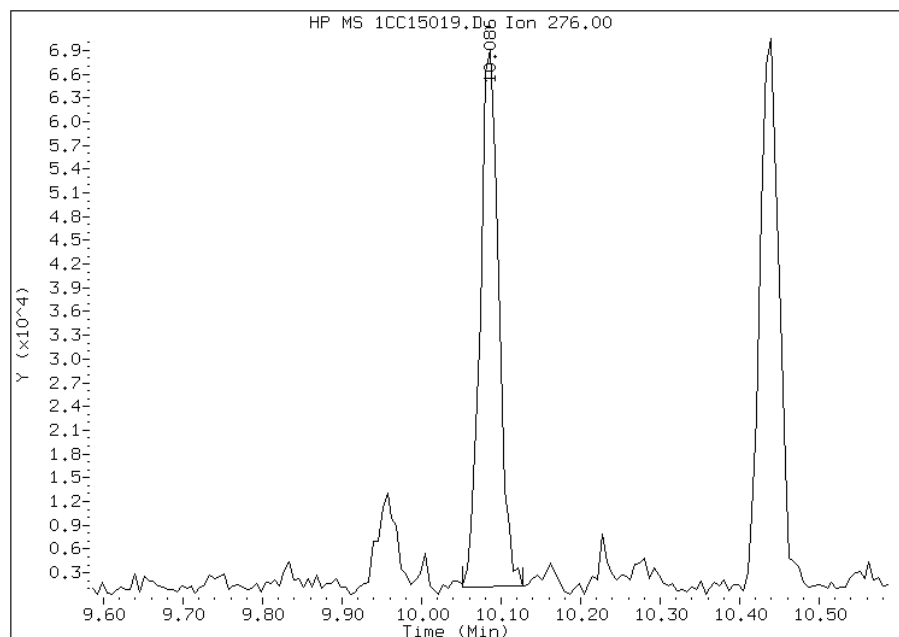
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15019.D
Inj. Date and Time: 15-MAR-2013 20:49
Instrument ID: BSMC5973.i
Client ID: CV0518B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

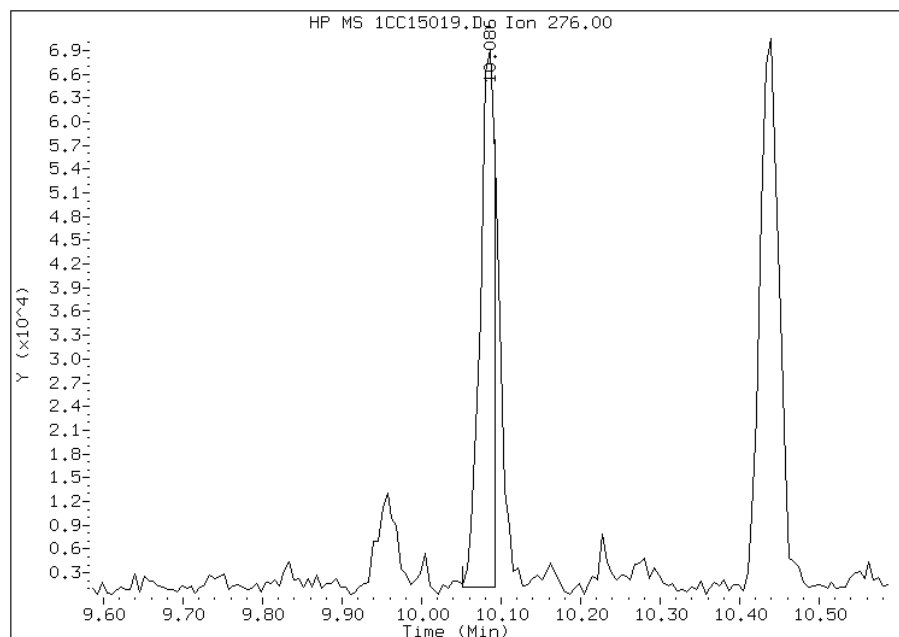
Processing Integration Results

RT: 10.09
Response: 109082
Amount: 2
Conc: 831



Manual Integration Results

RT: 10.09
Response: 88801
Amount: 2
Conc: 677



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822A-CS Lab Sample ID: 680-88118-31
 Matrix: Solid Lab File ID: 1CC15020.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:20
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.92(g) Date Analyzed: 03/15/2013 21:07
 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.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	45	J	200	25
120-12-7	Anthracene	78		42	21
56-55-3	Benzo[a]anthracene	240		40	20
50-32-8	Benzo[a]pyrene	240		53	26
205-99-2	Benzo[b]fluoranthene	310		62	31
191-24-2	Benzo[g,h,i]perylene	350		100	22
207-08-9	Benzo[k]fluoranthene	220		40	18
218-01-9	Chrysene	280		45	23
53-70-3	Dibenz(a,h)anthracene	80	J	100	21
206-44-0	Fluoranthene	370		100	20
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	99	J	100	36
90-12-0	1-Methylnaphthalene	290		200	22
91-57-6	2-Methylnaphthalene	260		200	36
91-20-3	Naphthalene	190	J	200	22
85-01-8	Phenanthrene	380		40	20
129-00-0	Pyrene	380		100	19

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15020.D
 Lab Smp Id: 680-88118-A-31-A Client Smp ID: CV0822A-CS
 Inj Date : 15-MAR-2013 21:07
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-31-a
 Misc Info : 680-88118-A-31-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.920	Weight Extracted
M	20.404	% 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		3.751	3.751	(1.000)	1134437	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	867790	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1569588	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	41059	1.73259	583.5693	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1718283	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1662705	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	16568	0.56099	188.9514(Q)	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	14919	0.75730	255.0735	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	15304	0.85296	287.2938	
5 Acenaphthylene	152		4.745	4.751	(0.982)	4659	0.13317	44.8527	
9 Fluorene	166		5.174	5.174	(1.071)	1996	0.07258	24.4452(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	51472	1.13411	381.9892	
12 Anthracene	178		5.833	5.839	(1.008)	10233	0.23054	77.6509	
13 Carbazole	167		5.939	5.945	(1.026)	5770	0.14624	49.2552(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.633	6.639	(1.146)	54378	1.09407	368.5031
16 Pyrene	202	6.804	6.810	(0.880)	51924	1.12447	378.7441
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	35560	0.71704	241.5123
19 Chrysene	228	7.745	7.751	(1.002)	41689	0.83999	282.9260
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	40343	0.92844	312.7155(M)
21 Benzo(k)fluoranthene	252	8.580	8.604	(0.962)	29472	0.66117	222.6943(M)
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	29568	0.70055	235.9595
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109	(1.131)	11668	0.29387	98.9812(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.127	(1.132)	9192	0.23668	79.7196(M)
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	43052	1.03654	349.1269

QC Flag Legend

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

Data File: 1CC15020.D

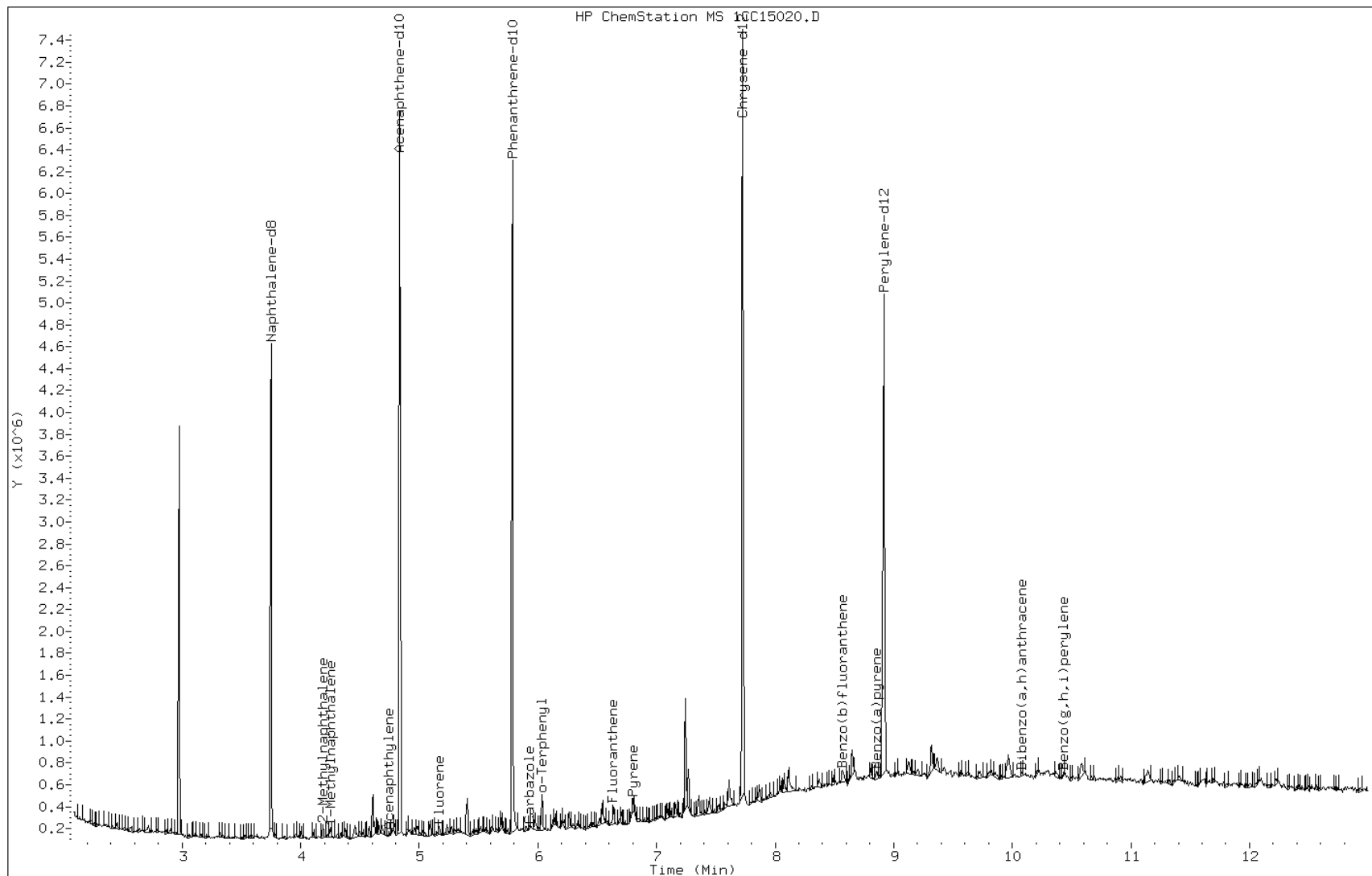
Date: 15-MAR-2013 21:07

Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

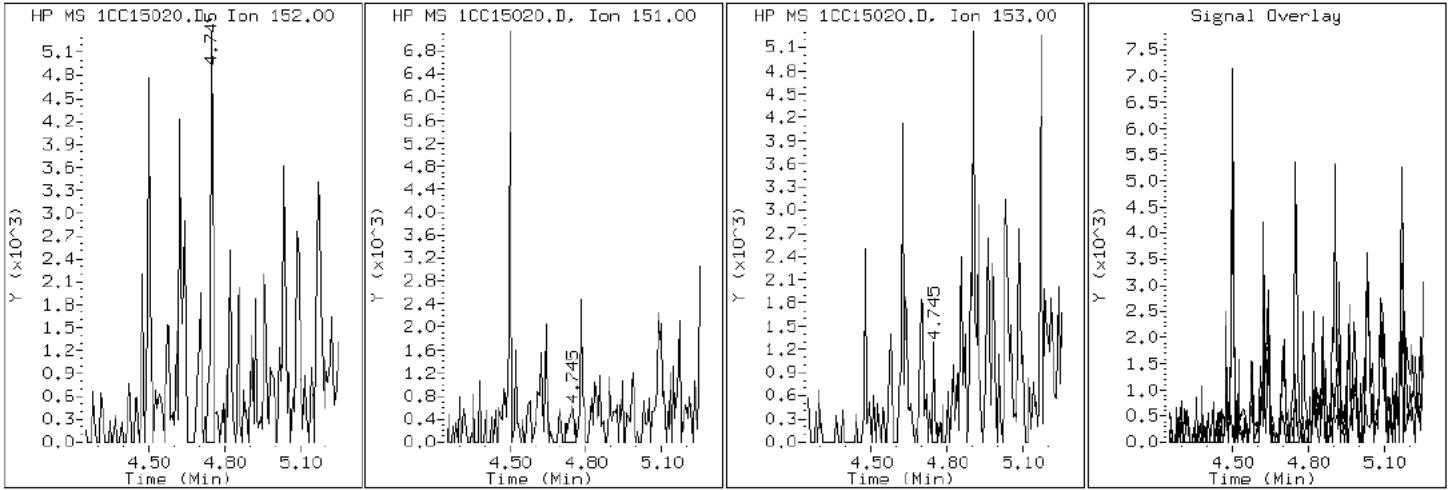
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

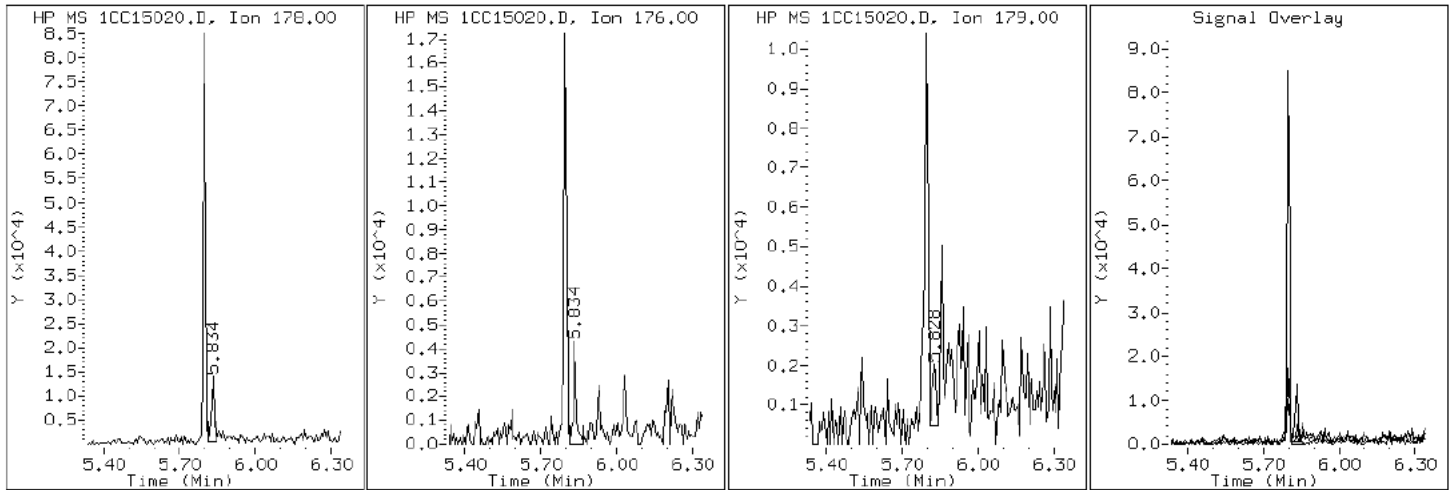
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

12 Anthracene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

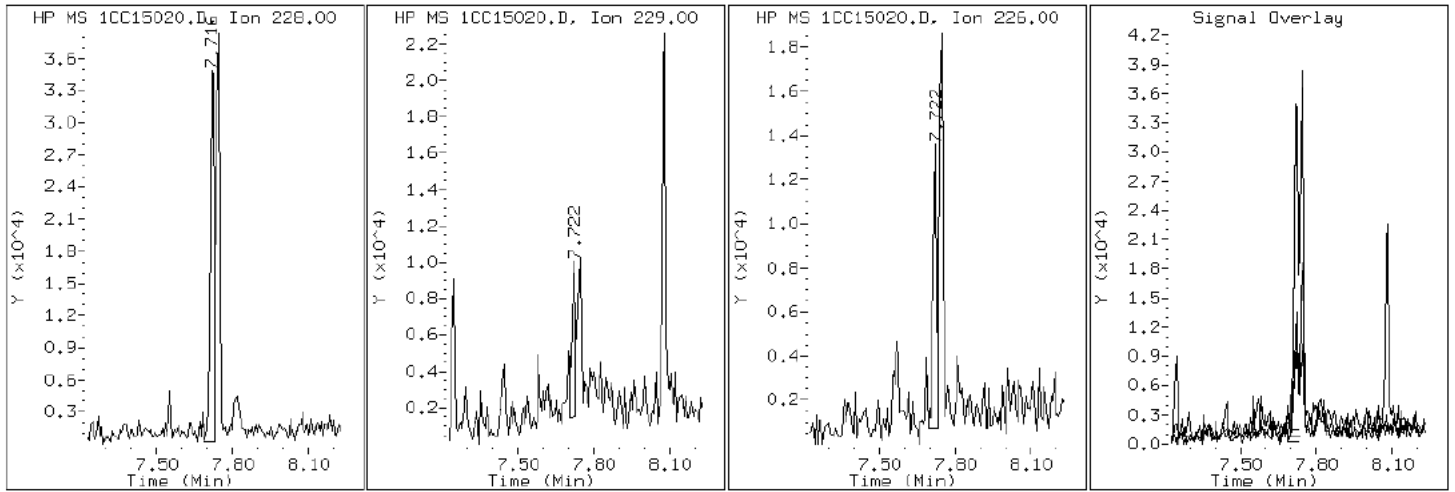
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

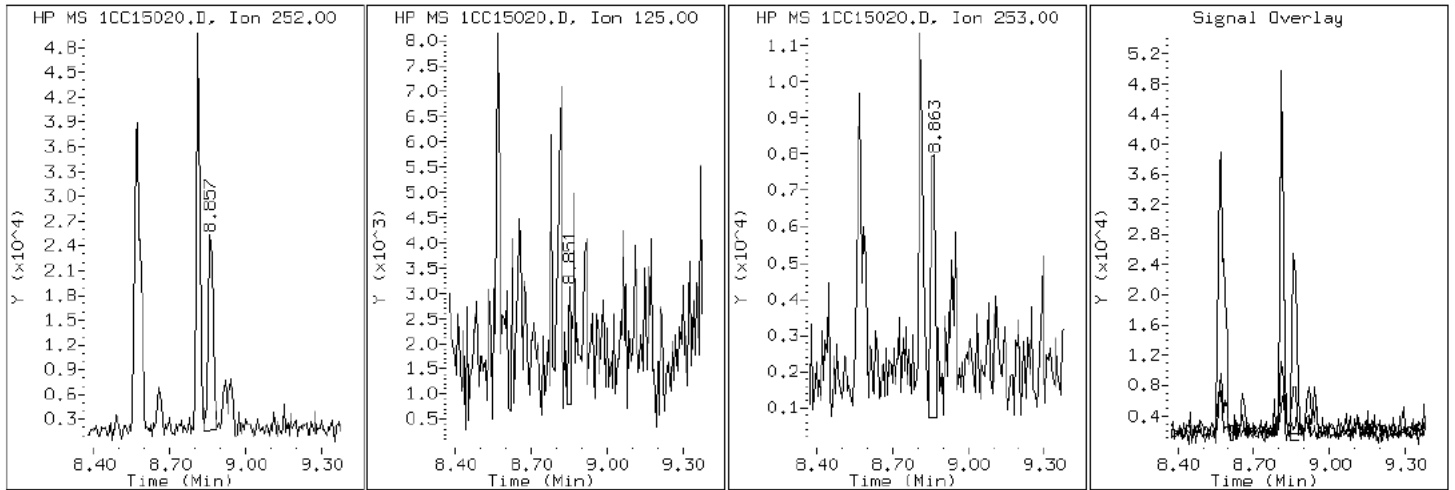
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

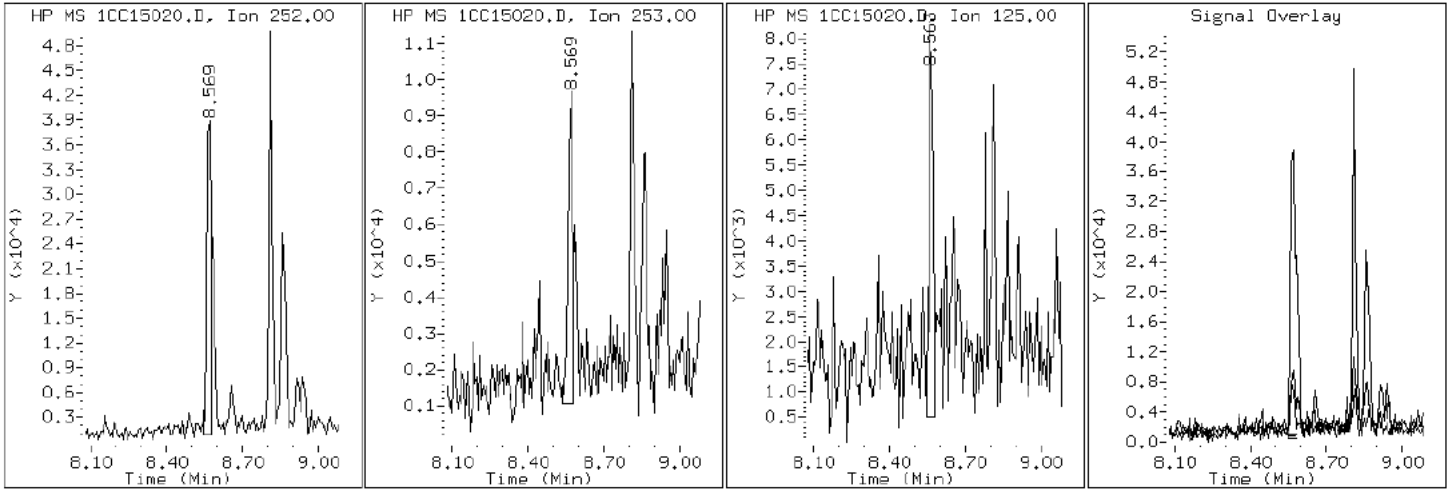
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

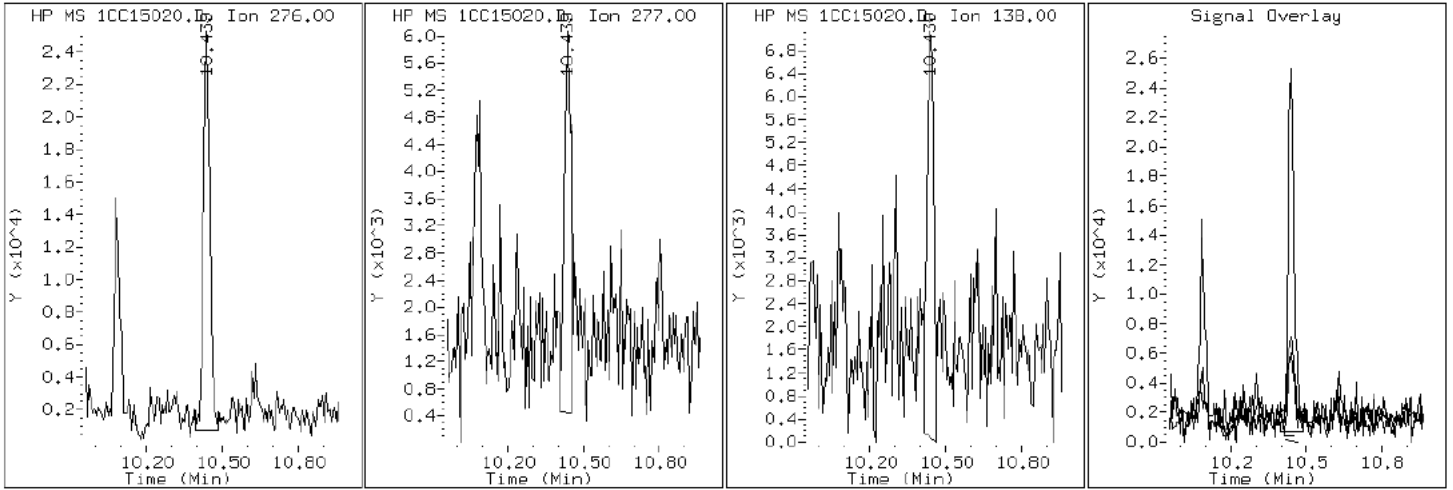
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

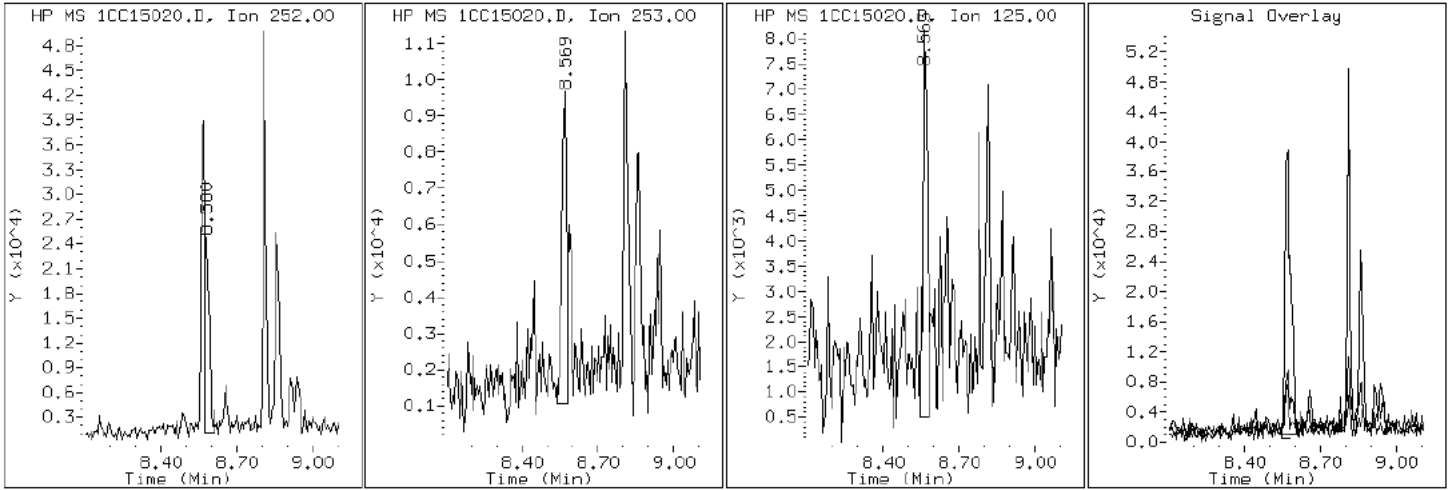
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

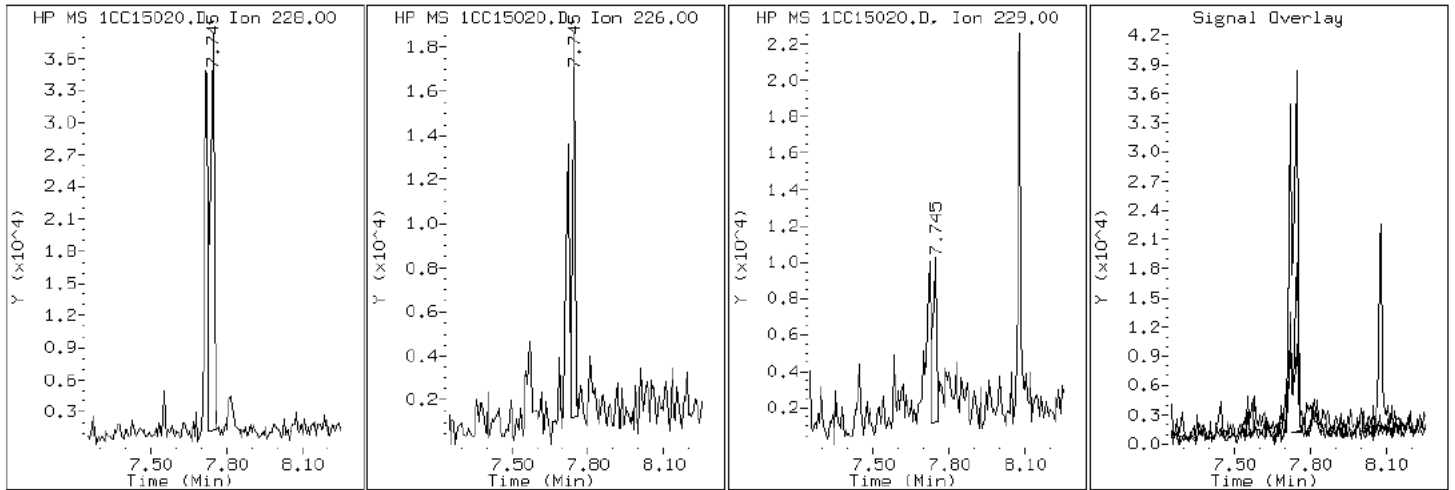
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

19 Chrysene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

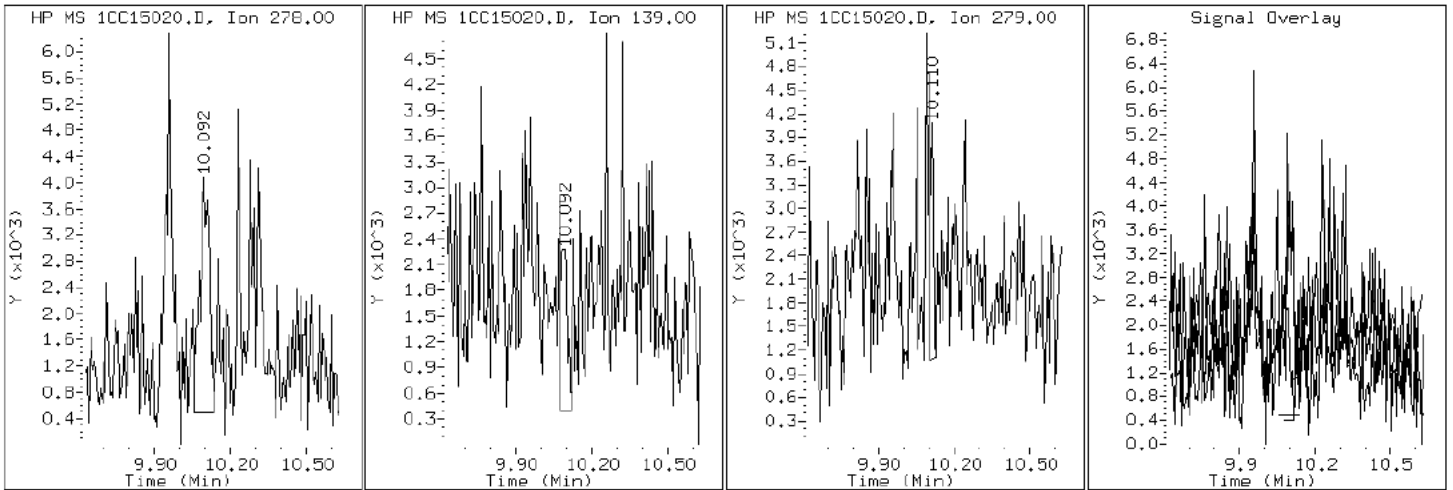
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

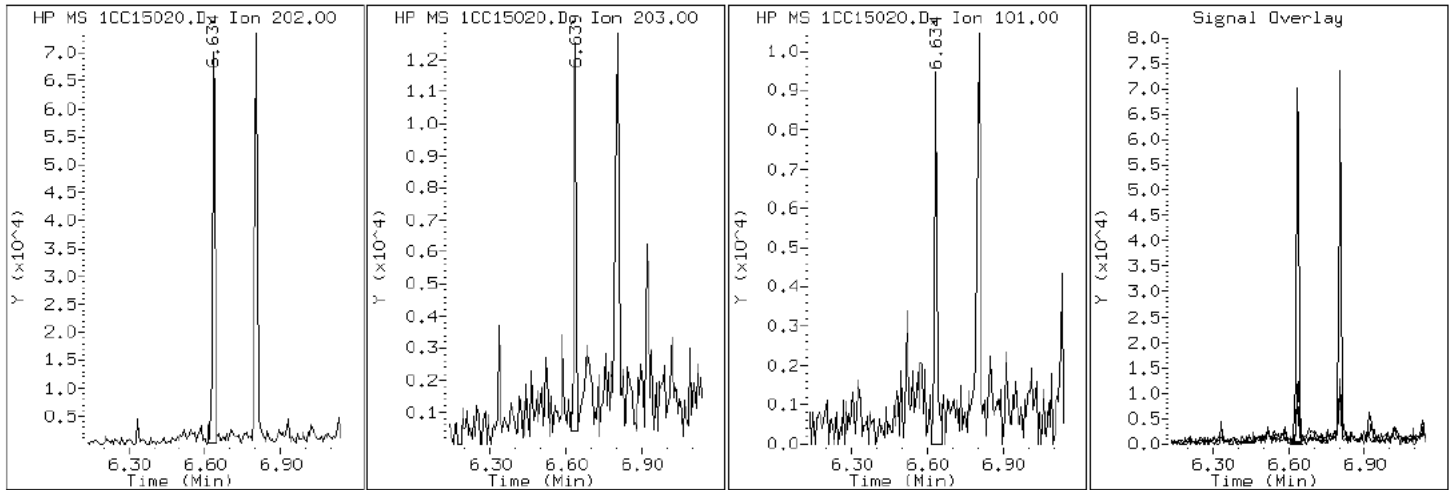
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

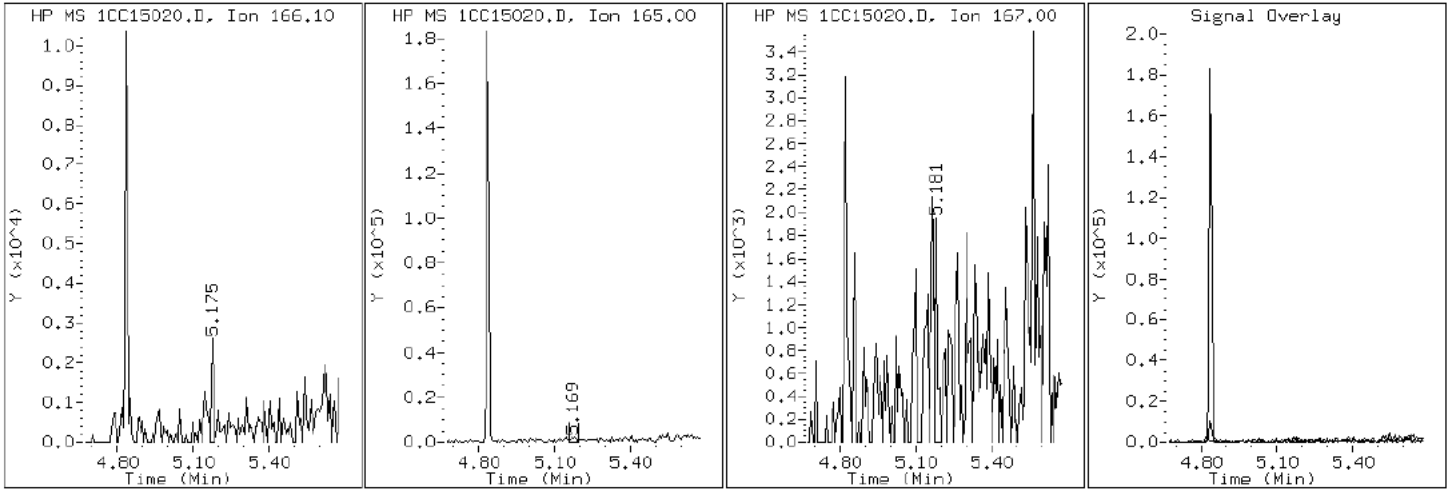
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

9 Fluorene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

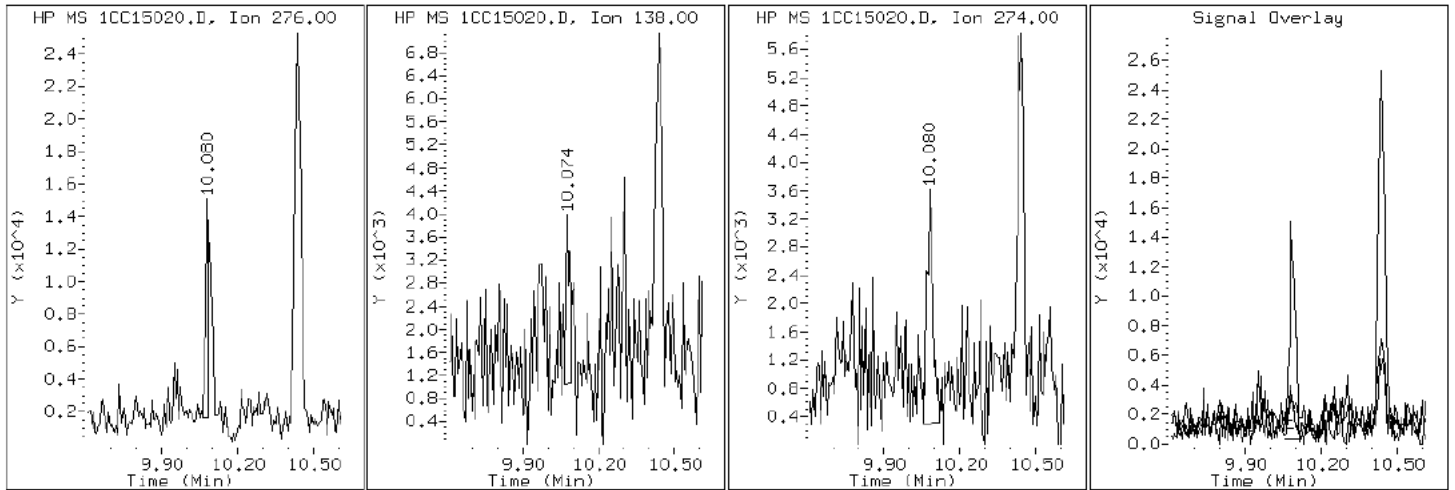
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

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



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

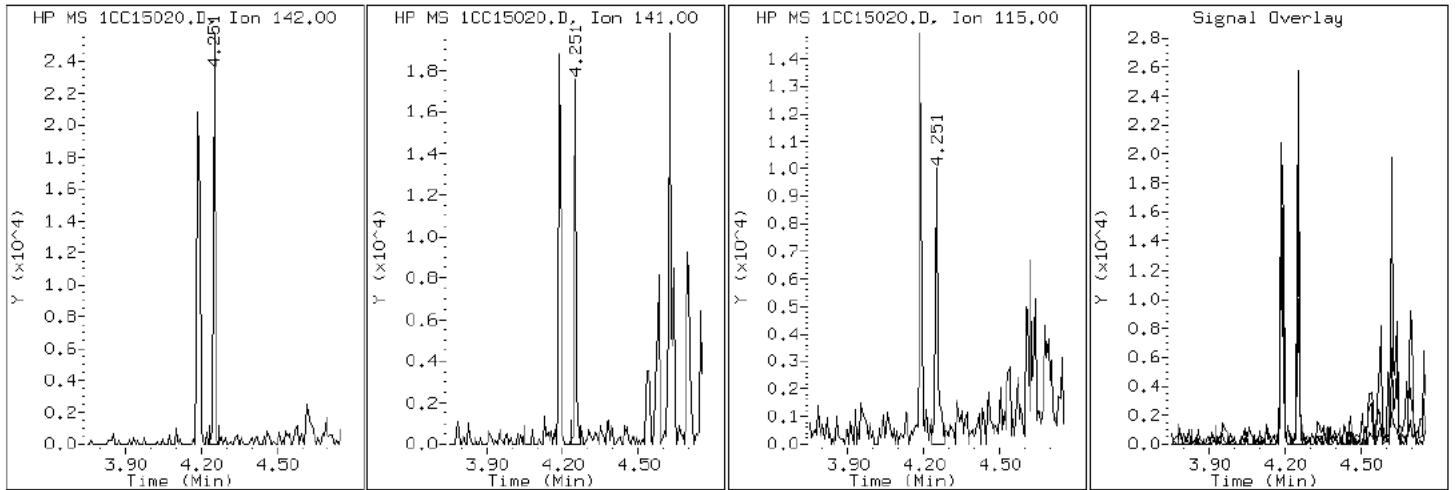
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

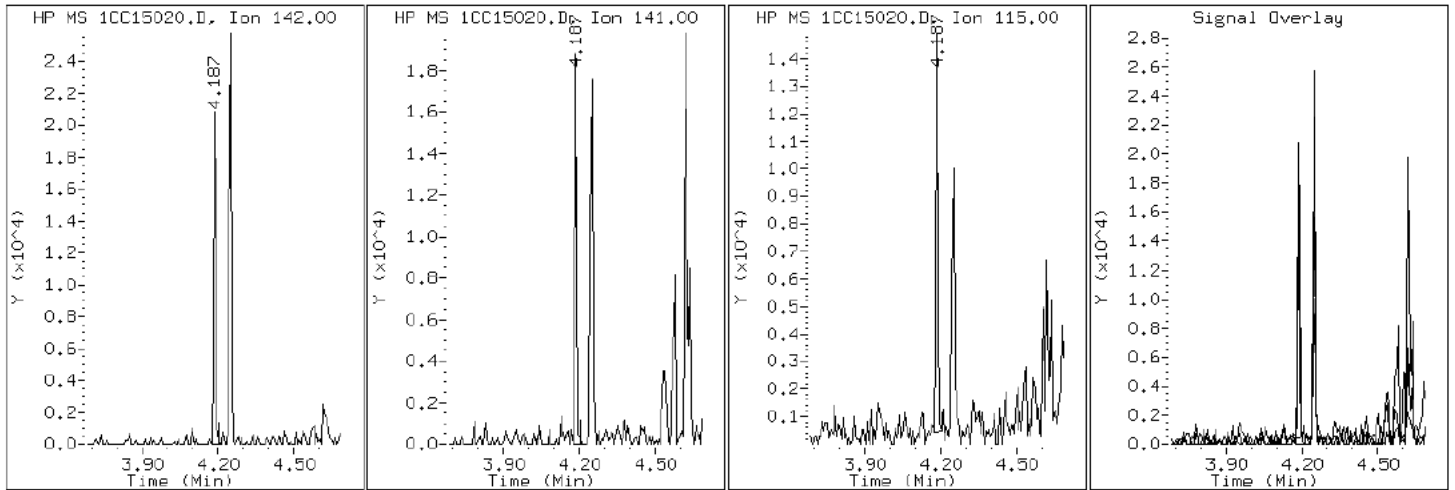
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

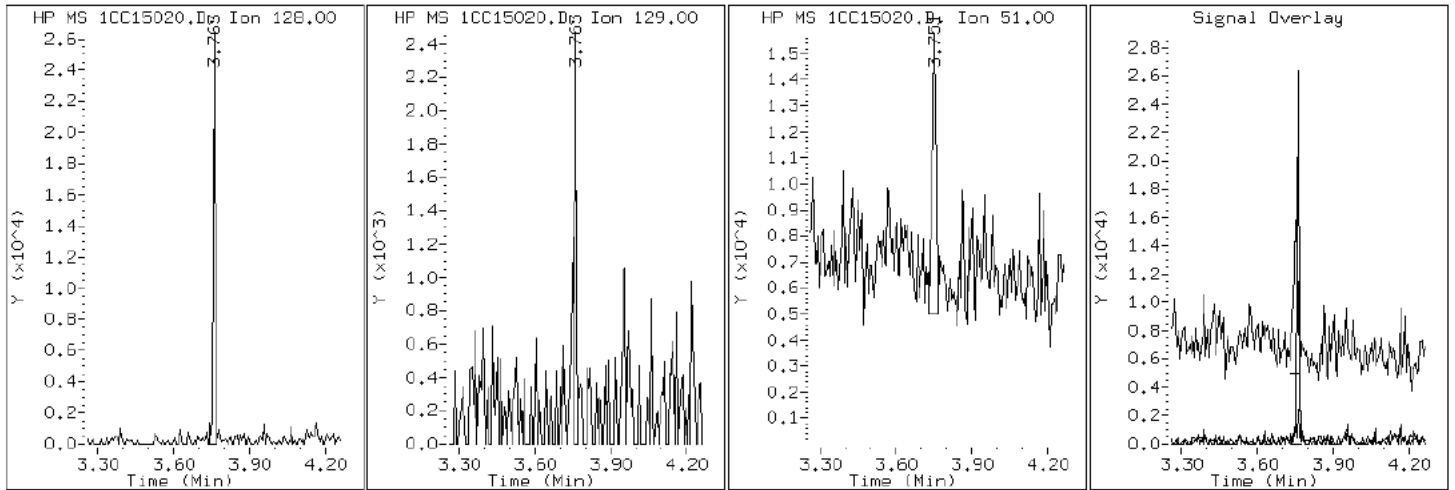
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

2 Naphthalene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

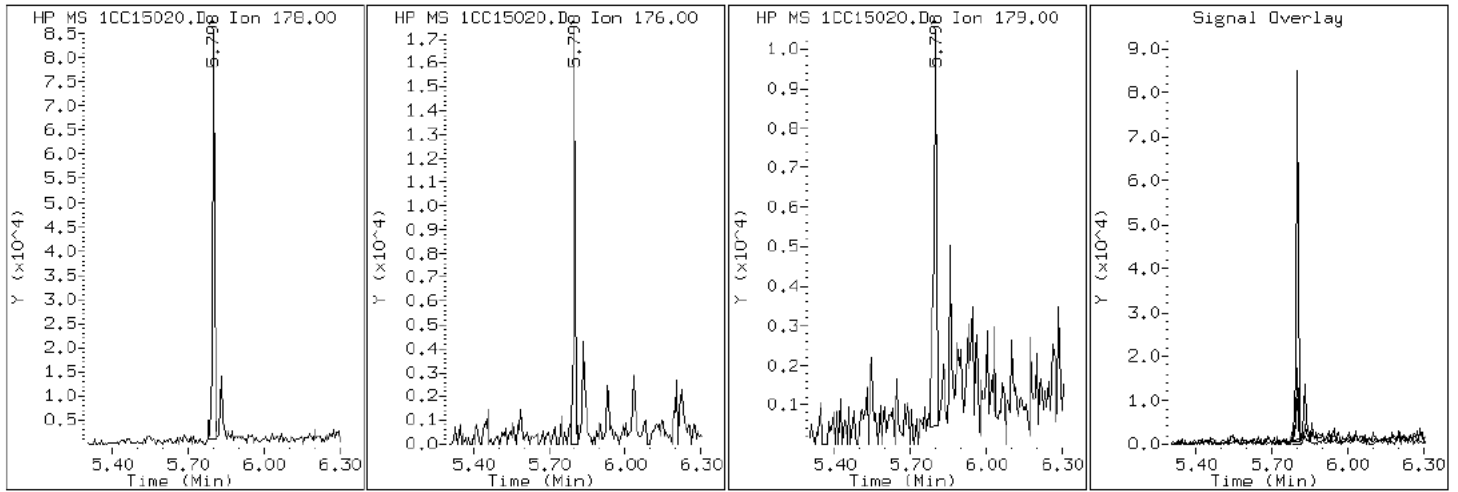
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15020.D

Date: 15-MAR-2013 21:07

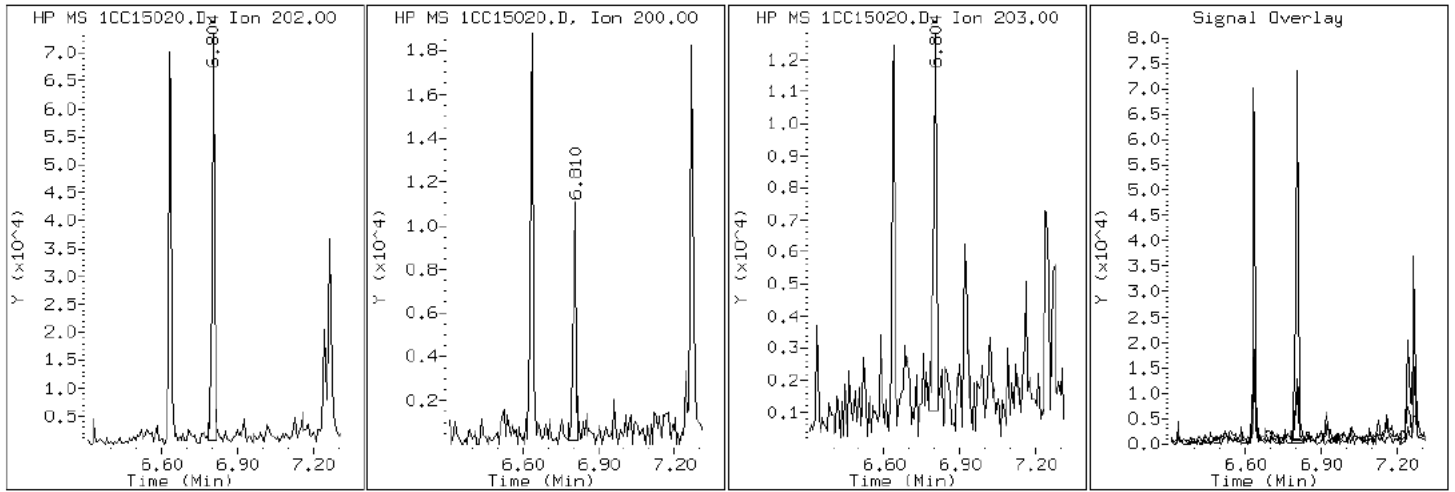
Client ID: CV0822A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-31-a

Operator: SCC

16 Pyrene

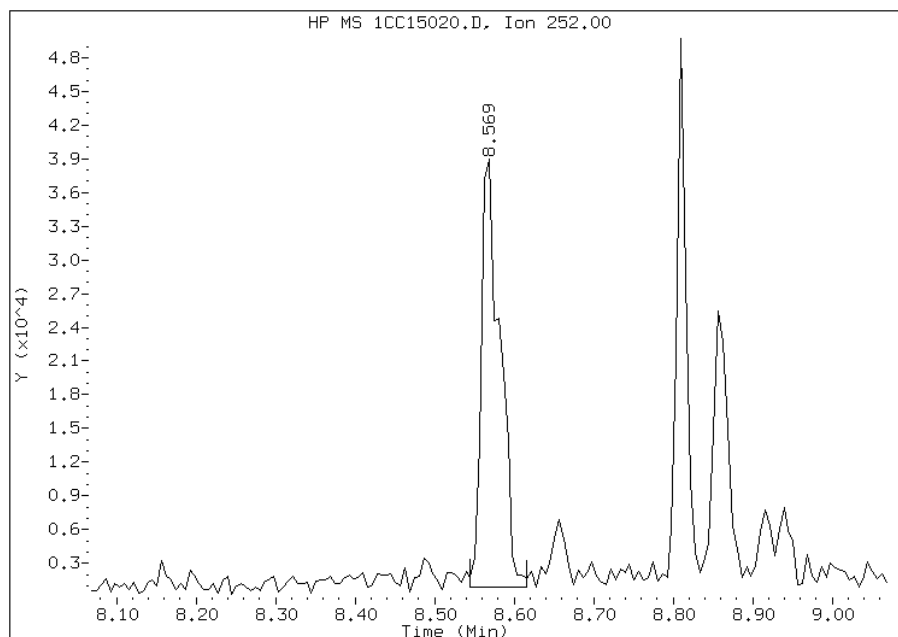


Manual Integration Report

Data File: 1CC15020.D
Inj. Date and Time: 15-MAR-2013 21:07
Instrument ID: BSMC5973.i
Client ID: CV0822A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

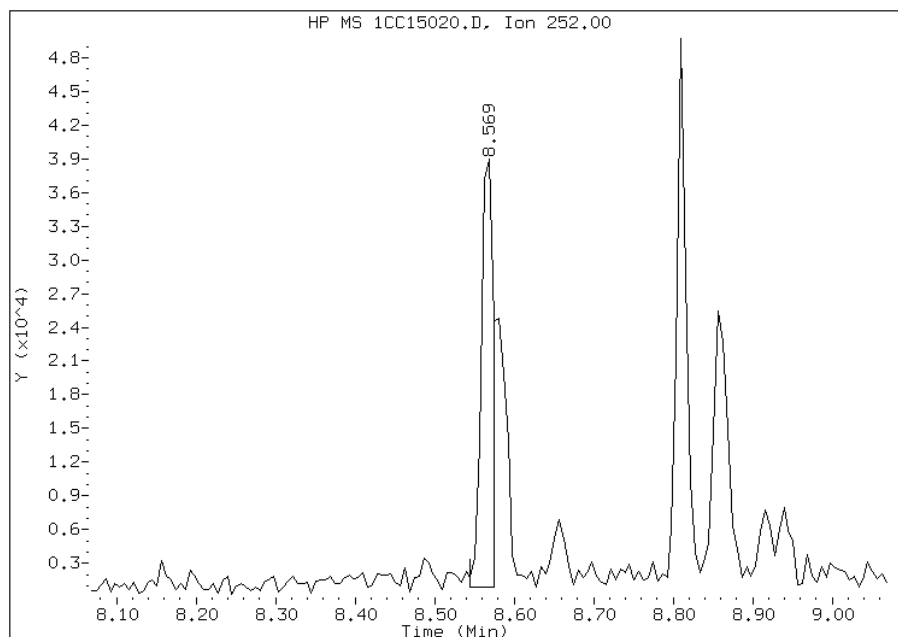
Processing Integration Results

RT: 8.57
Response: 62196
Amount: 1
Conc: 482



Manual Integration Results

RT: 8.57
Response: 40343
Amount: 1
Conc: 313



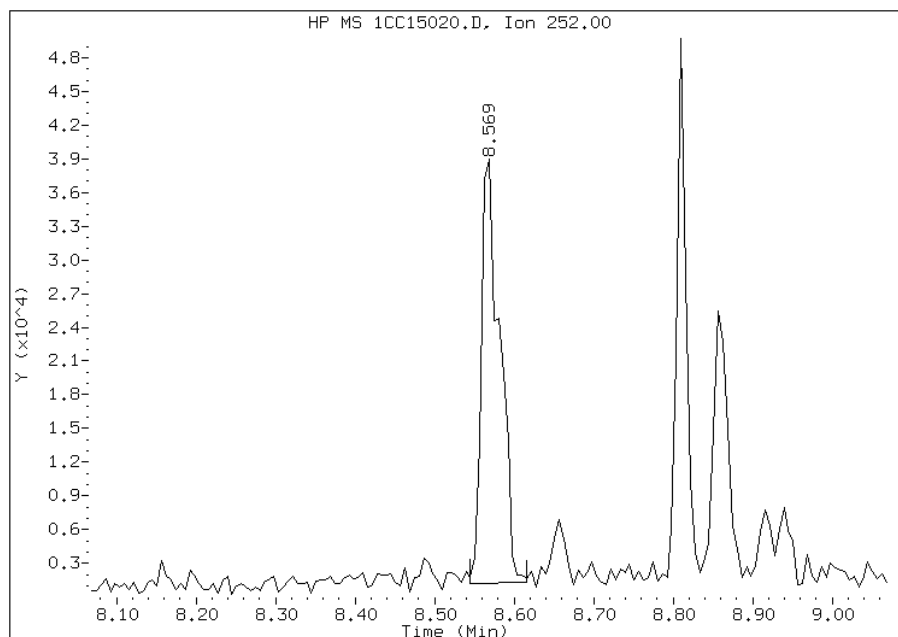
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15020.D
Inj. Date and Time: 15-MAR-2013 21:07
Instrument ID: BSMC5973.i
Client ID: CV0822A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

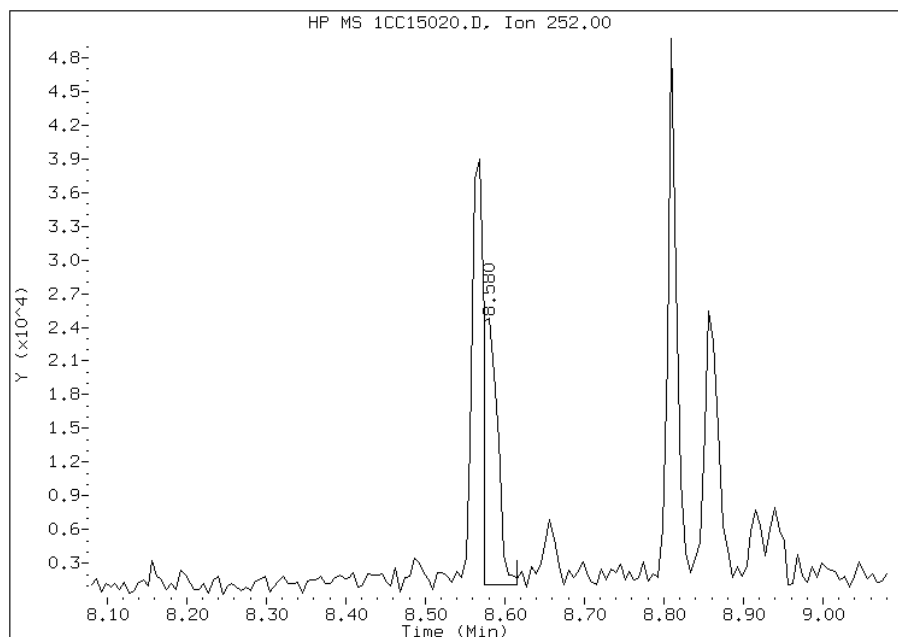
Processing Integration Results

RT: 8.57
Response: 60354
Amount: 1
Conc: 456



Manual Integration Results

RT: 8.58
Response: 29472
Amount: 1
Conc: 223



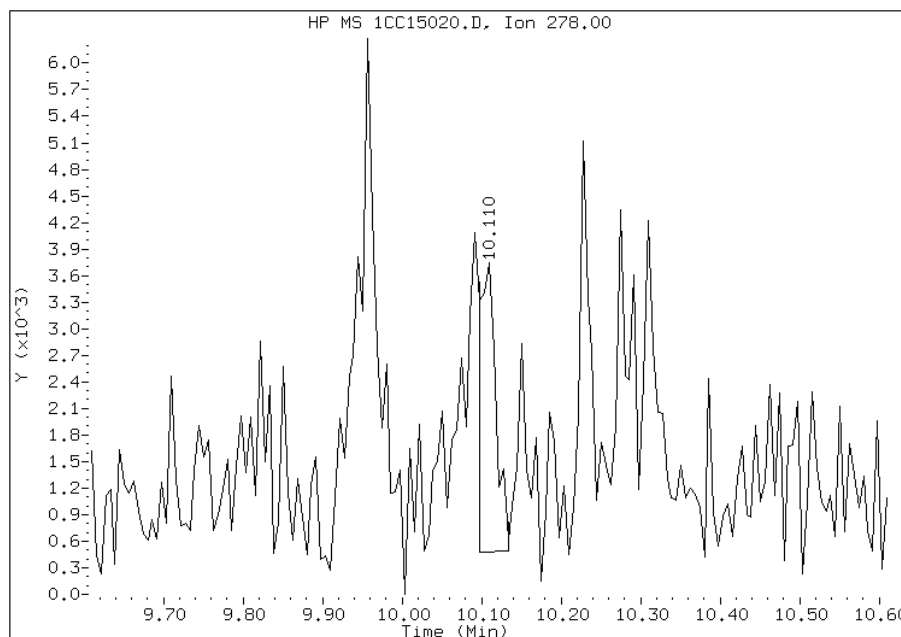
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15020.D
Inj. Date and Time: 15-MAR-2013 21:07
Instrument ID: BSMC5973.i
Client ID: CV0822A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

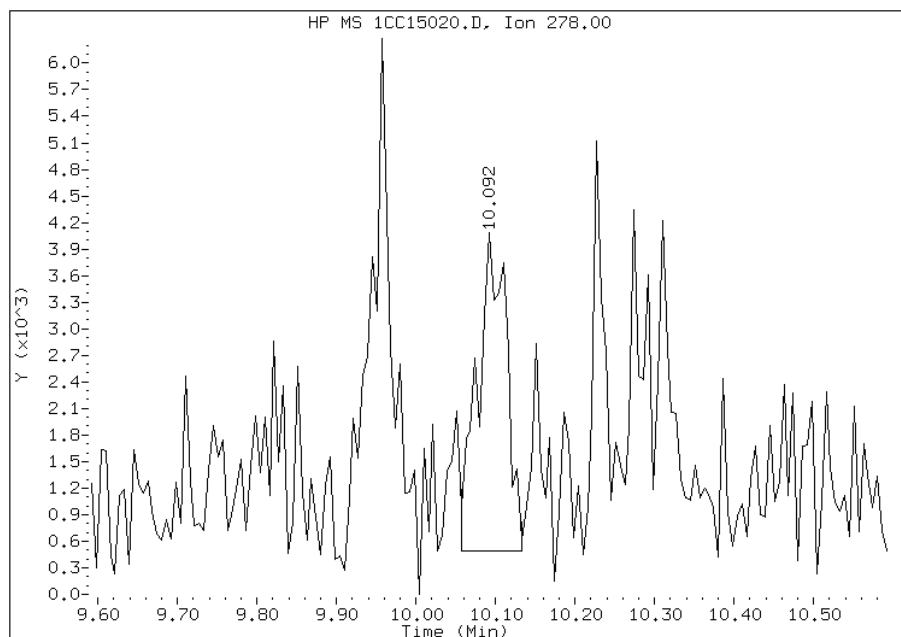
Processing Integration Results

RT: 10.11
Response: 4620
Amount: 0
Conc: 40



Manual Integration Results

RT: 10.09
Response: 9192
Amount: 0
Conc: 80



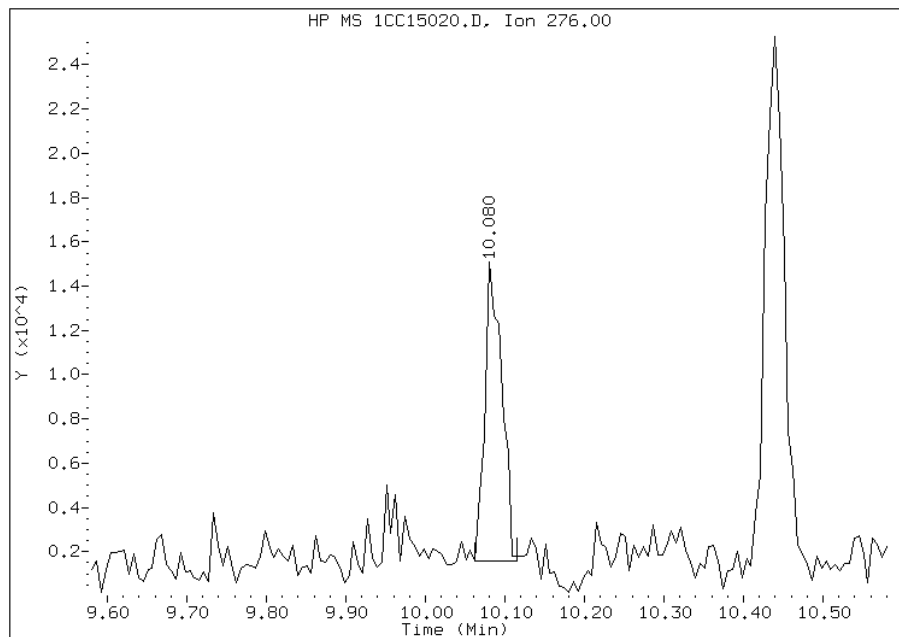
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15020.D
Inj. Date and Time: 15-MAR-2013 21:07
Instrument ID: BSMC5973.i
Client ID: CV0822A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

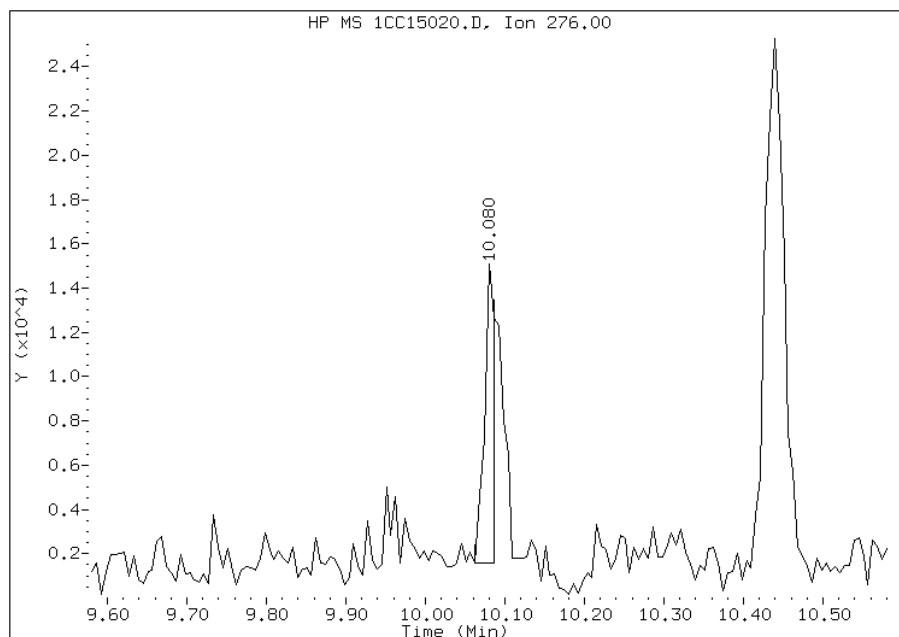
Processing Integration Results

RT: 10.08
Response: 19568
Amount: 0
Conc: 166



Manual Integration Results

RT: 10.08
Response: 11668
Amount: 0
Conc: 99



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822B-CS Lab Sample ID: 680-88118-32
 Matrix: Solid Lab File ID: 1CC15021.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:30
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.94 (g) Date Analyzed: 03/15/2013 21:26
 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.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	31	J	200	25
120-12-7	Anthracene	53		42	21
56-55-3	Benzo[a]anthracene	230		40	20
50-32-8	Benzo[a]pyrene	170		53	26
205-99-2	Benzo[b]fluoranthene	330		62	31
191-24-2	Benzo[g,h,i]perylene	170		100	22
207-08-9	Benzo[k]fluoranthene	130		40	18
218-01-9	Chrysene	220		45	23
53-70-3	Dibenz(a,h)anthracene	31	J	100	21
206-44-0	Fluoranthene	270		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	110		100	36
90-12-0	1-Methylnaphthalene	110	J	200	22
91-57-6	2-Methylnaphthalene	94	J	200	36
91-20-3	Naphthalene	74	J	200	22
85-01-8	Phenanthrene	230		40	20
129-00-0	Pyrene	280		100	19

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15021.D
 Lab Smp Id: 680-88118-A-32-A Client Smp ID: CV0822B-CS
 Inj Date : 15-MAR-2013 21:26
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-32-a
 Misc Info : 680-88118-A-32-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	14.940	Weight Extracted
M	20.537	% 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		3.751	3.751	(1.000)	1319719	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	970098	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1778229	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	38498	1.43391	483.1359	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1917337	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1813373	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	7537	0.21937	73.9139(Q)	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	6368	0.27786	93.6217	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	7094	0.33987	114.5145	
5 Acenaphthylene	152		4.745	4.751	(0.982)	3546	0.09066	30.5480	
11 Phenanthrene	178		5.798	5.804	(1.002)	35215	0.68487	230.7569	
12 Anthracene	178		5.833	5.839	(1.008)	7919	0.15748	53.0592	
13 Carbazole	167		5.939	5.945	(1.026)	5887	0.13170	44.3728	
15 Fluoranthene	202		6.639	6.639	(1.147)	45170	0.80217	270.2808	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
16 Pyrene	202	6.804	6.810	(0.880)	42087	0.81682	275.2143	
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	37662	0.68058	229.3117	
19 Chrysene	228	7.745	7.751	(1.002)	36752	0.66364	223.6030	
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	47102	0.99392	334.8866(M)	
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	18647	0.38357	129.2366(QMH)	
22 Benzo(a)pyrene	252	8.857	8.874	(0.993)	23886	0.51891	174.8381	
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	14674	0.33887	114.1779(M)	
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	3886	0.09175	30.9125(QH)	
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	22188	0.48982	165.0385	

QC Flag Legend

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

Data File: 1CC15021.D

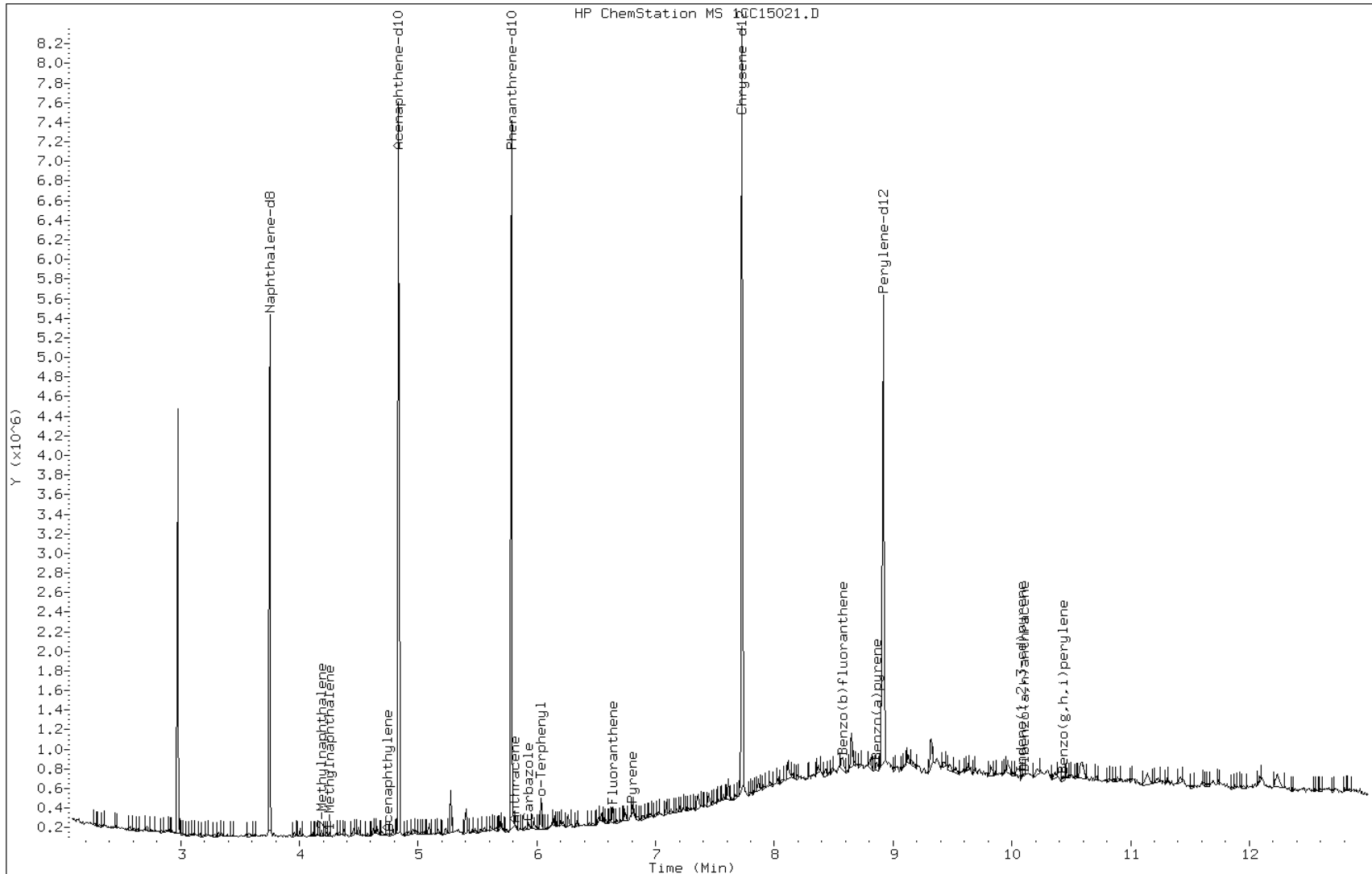
Date: 15-MAR-2013 21:26

Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

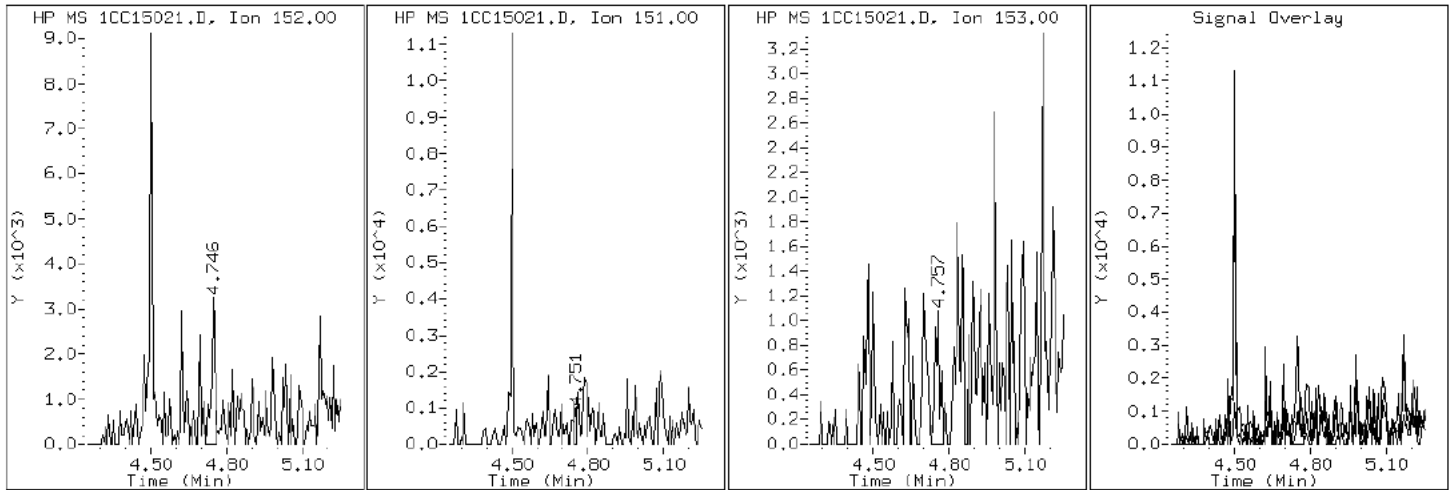
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

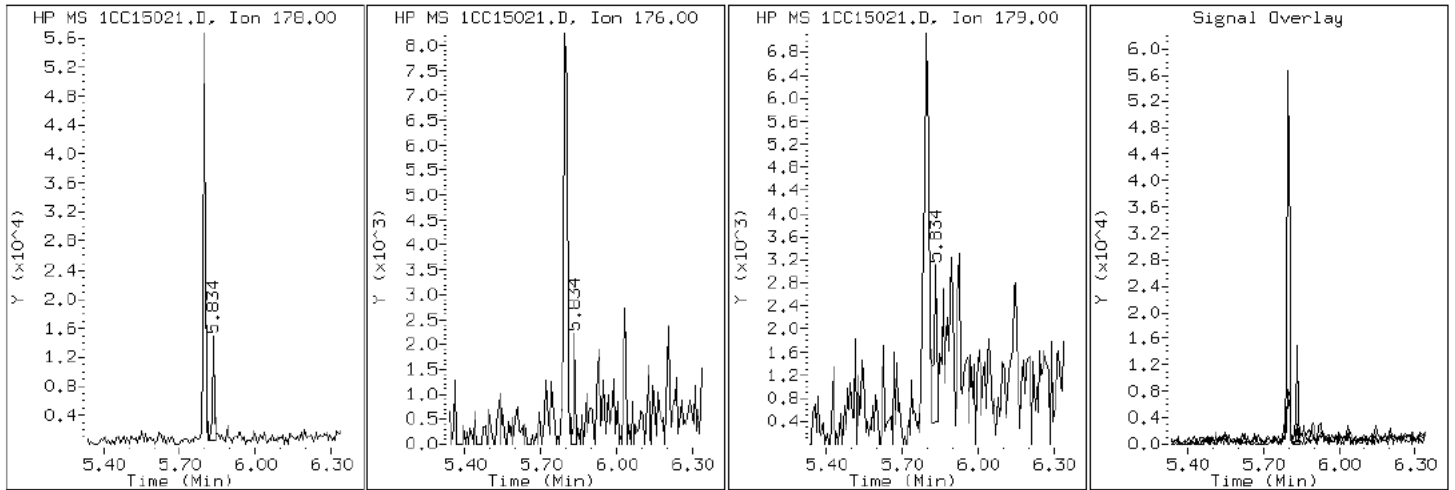
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

12 Anthracene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

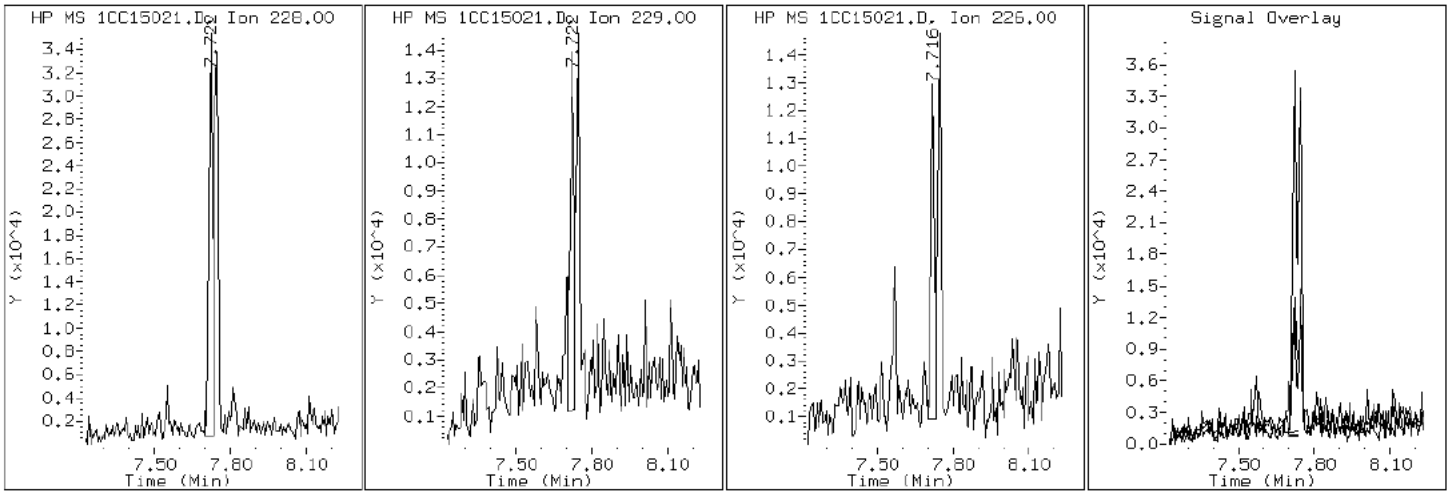
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

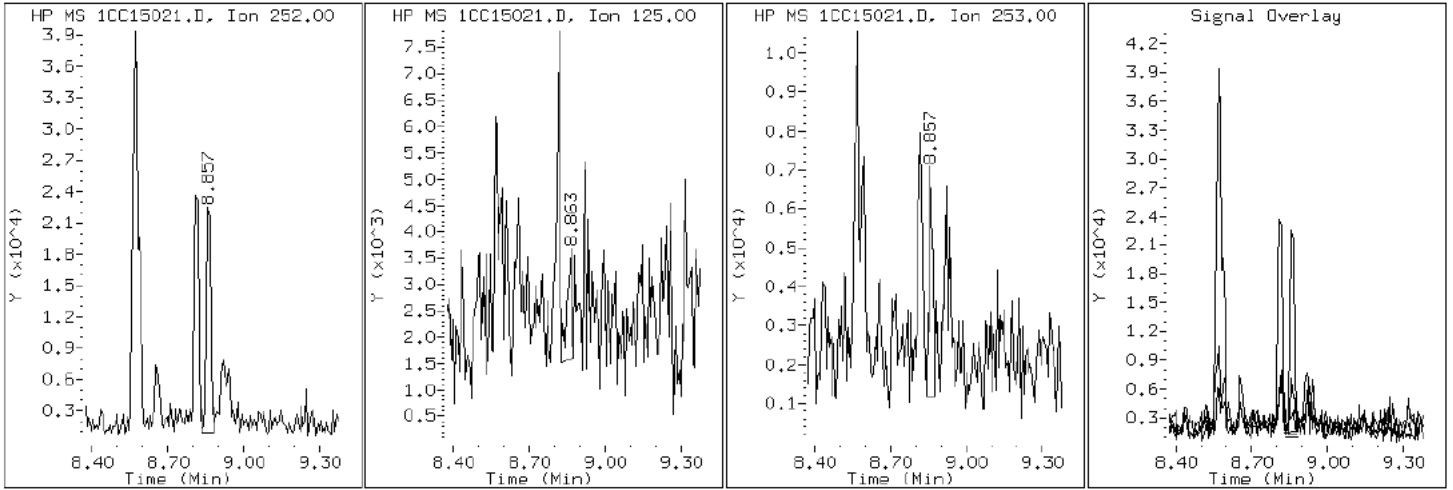
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

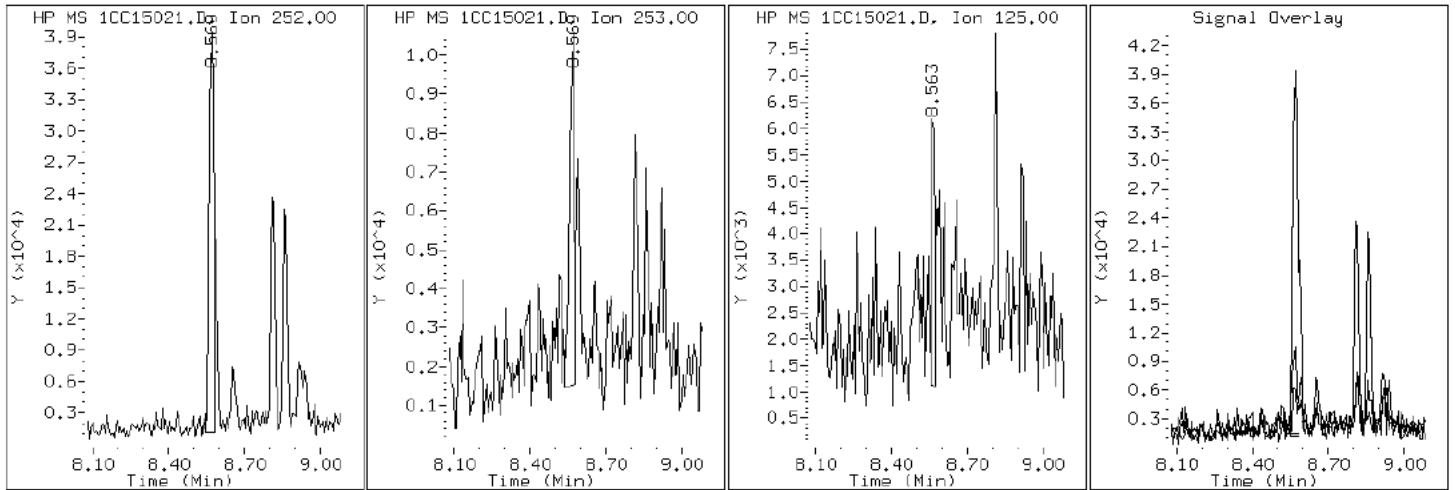
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

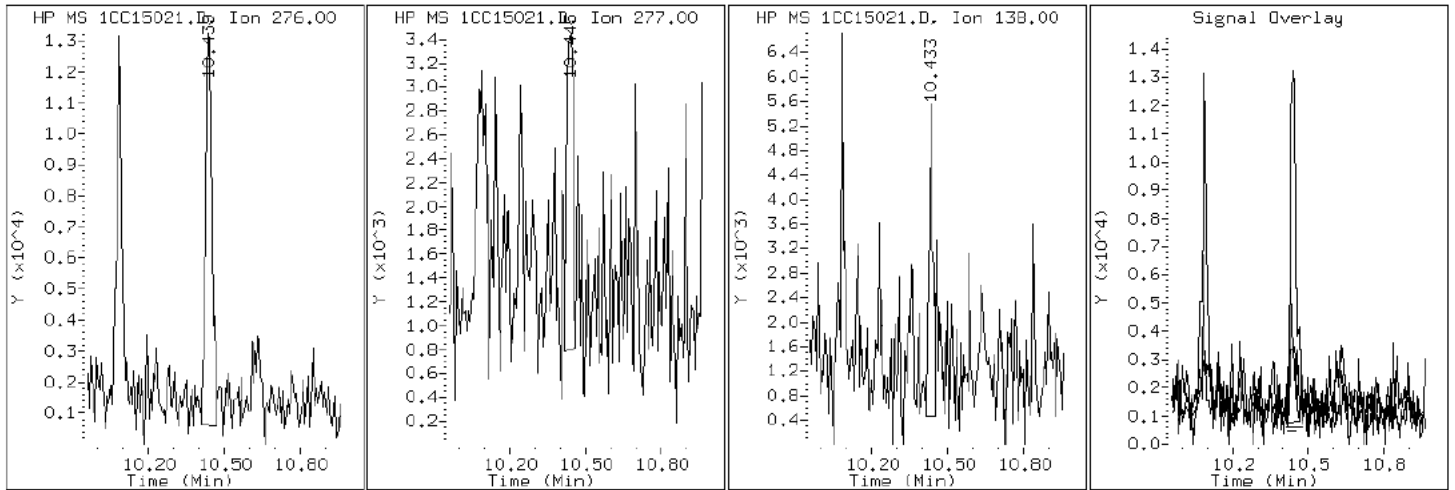
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

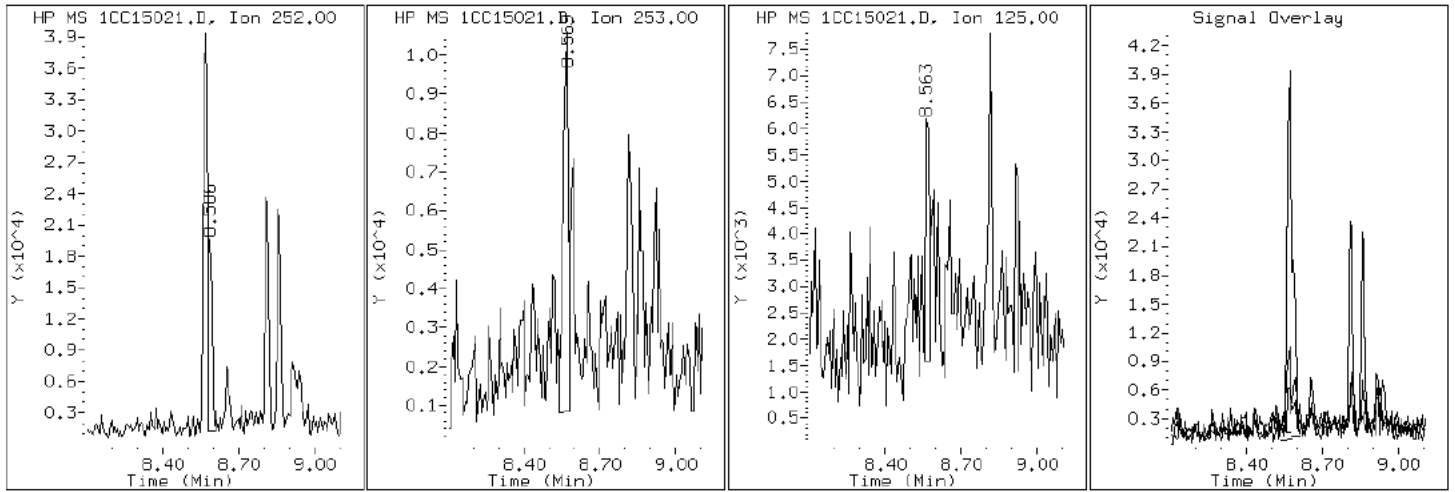
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

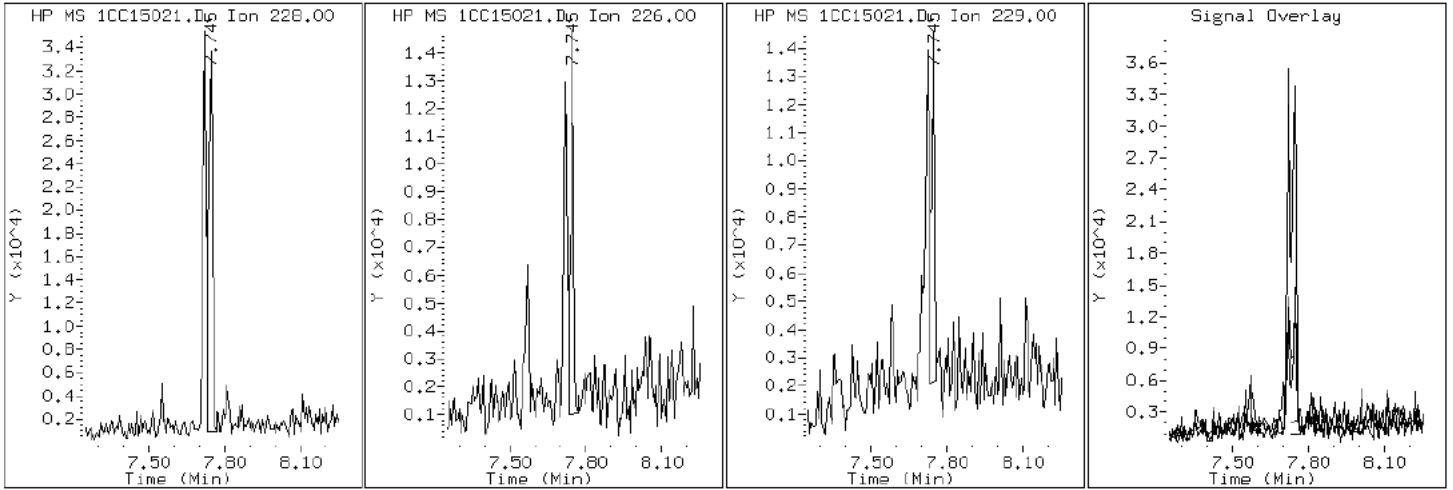
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

19 Chrysene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

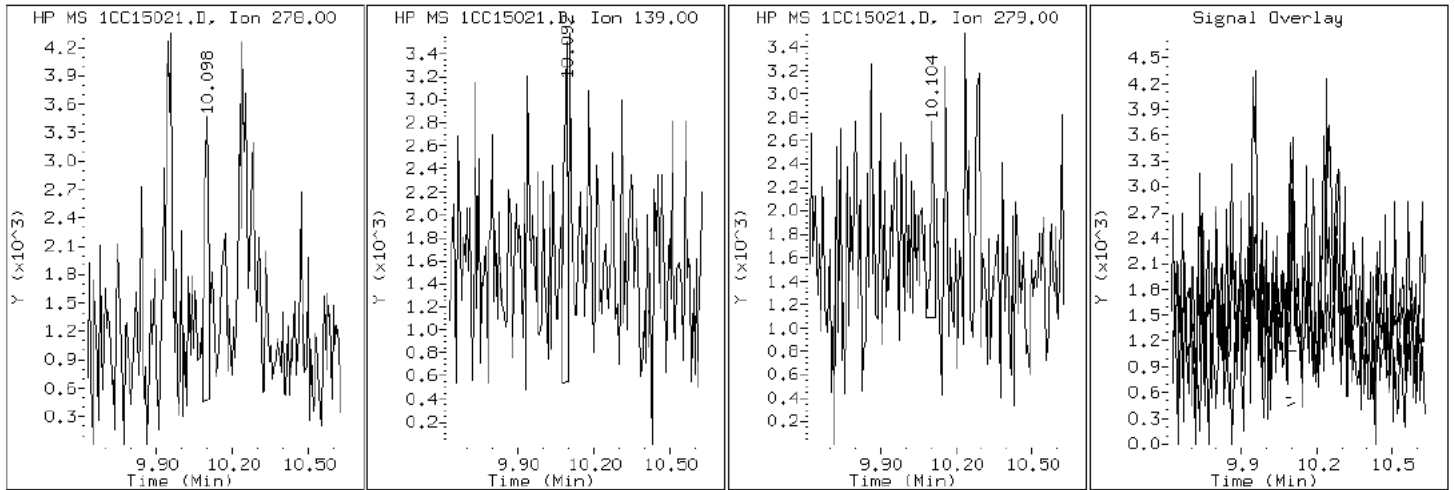
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

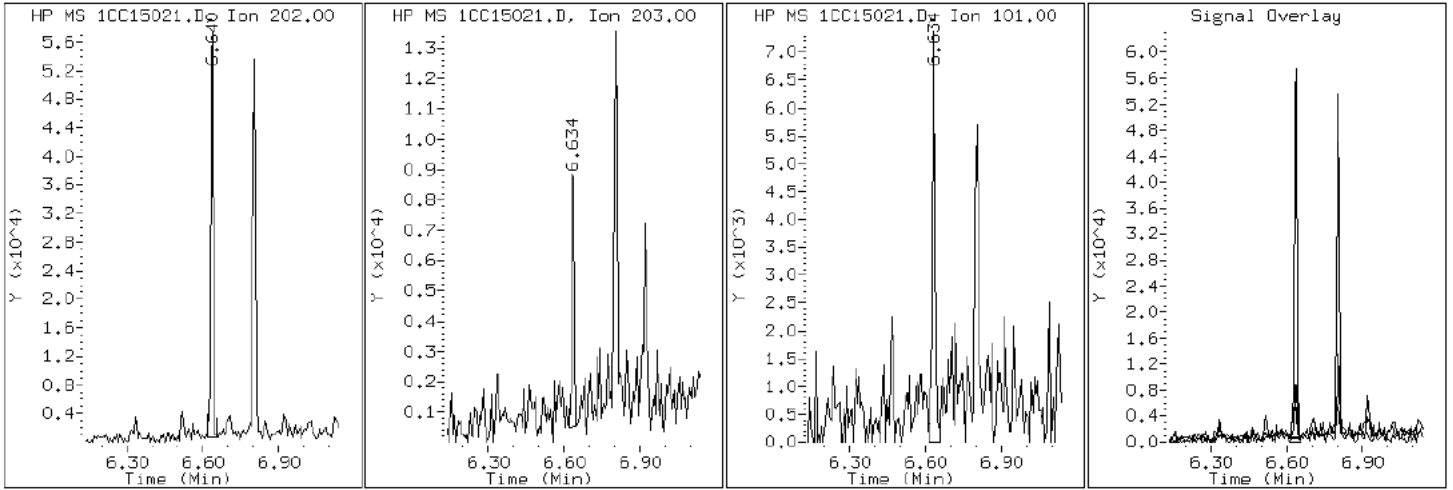
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

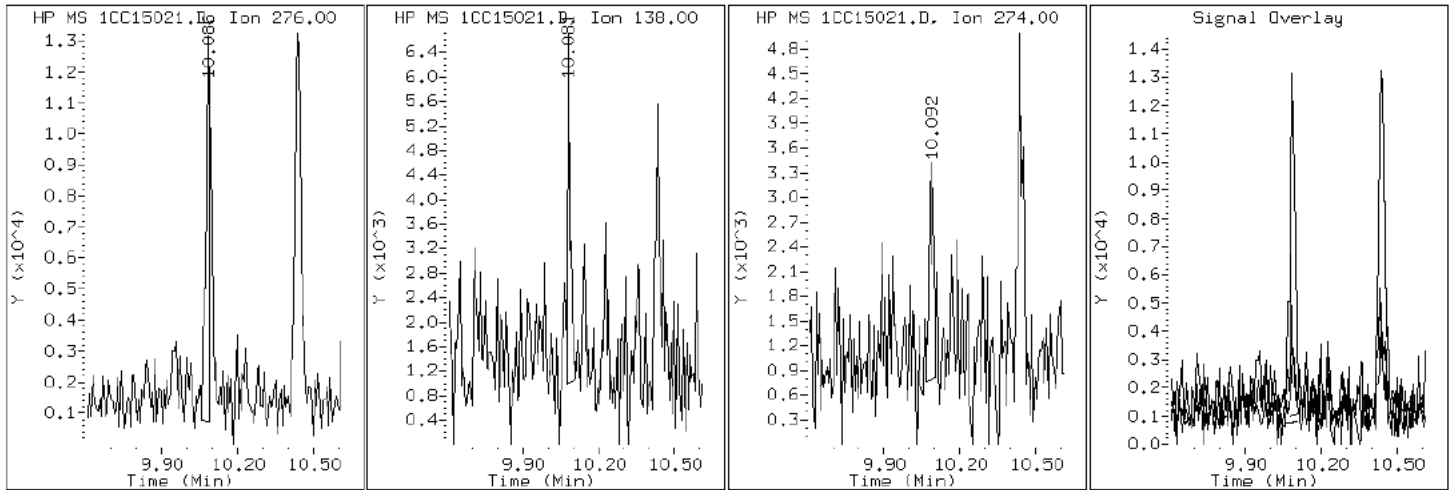
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

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



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

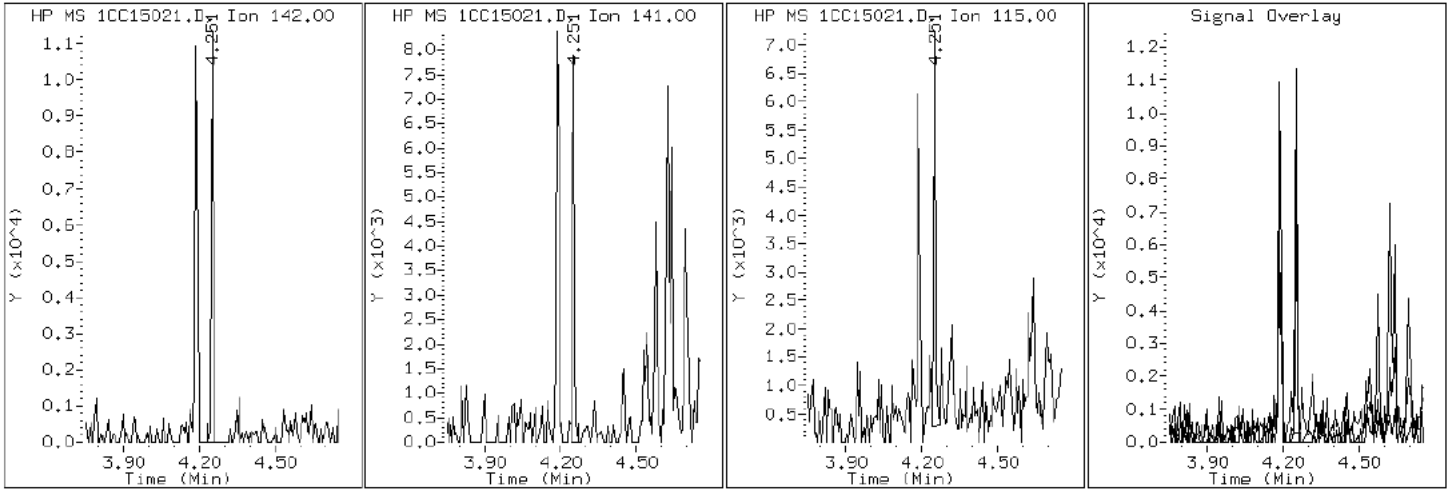
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

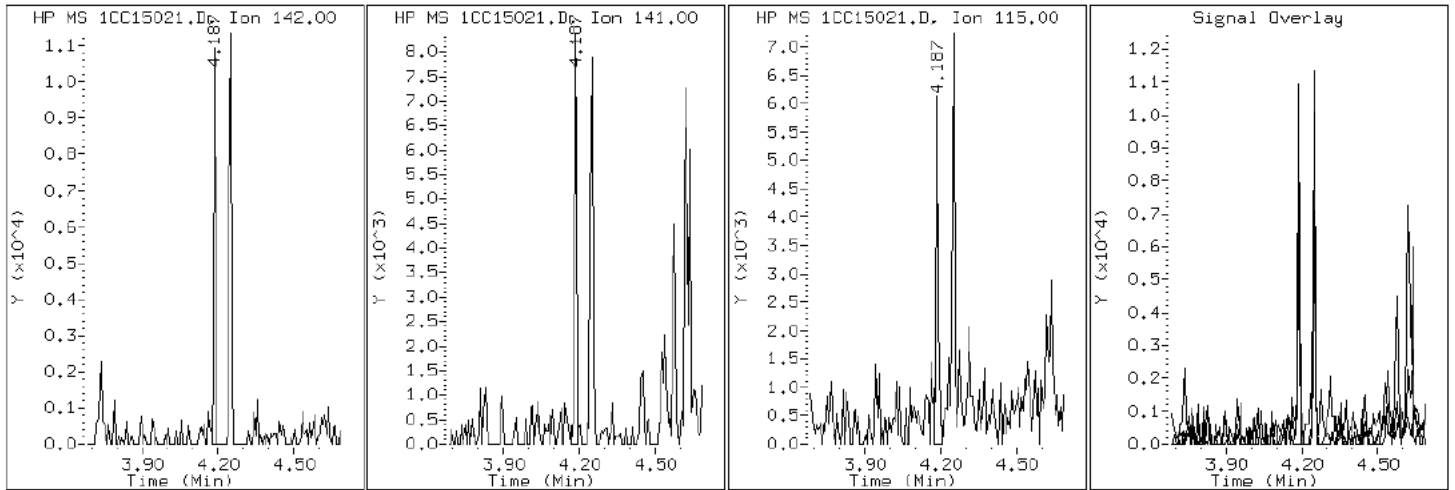
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

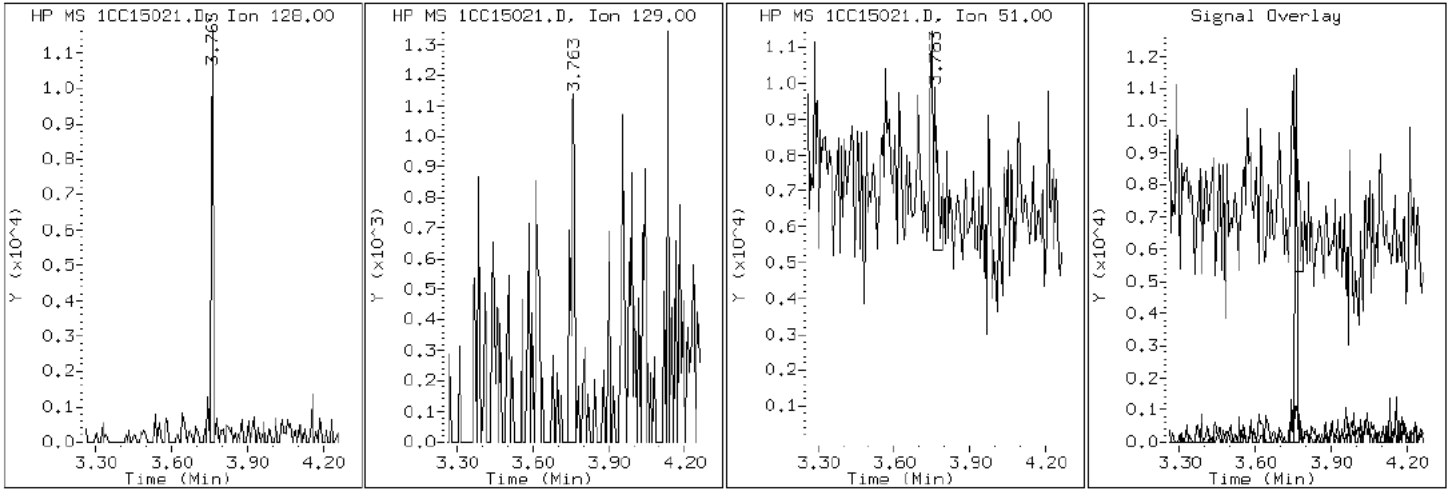
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

2 Naphthalene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

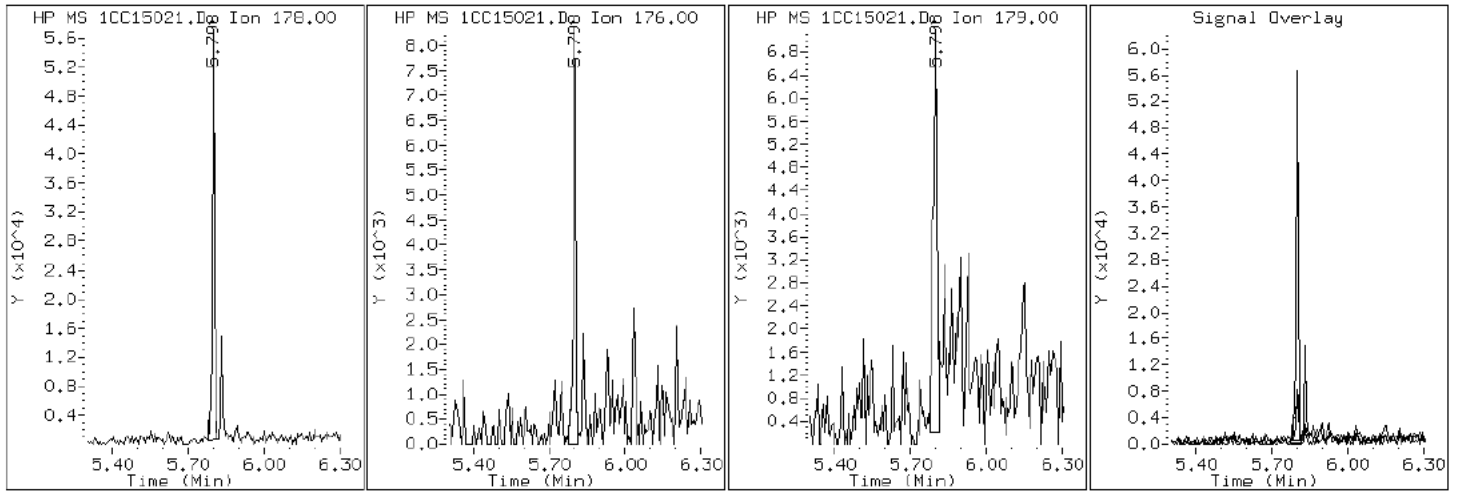
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15021.D

Date: 15-MAR-2013 21:26

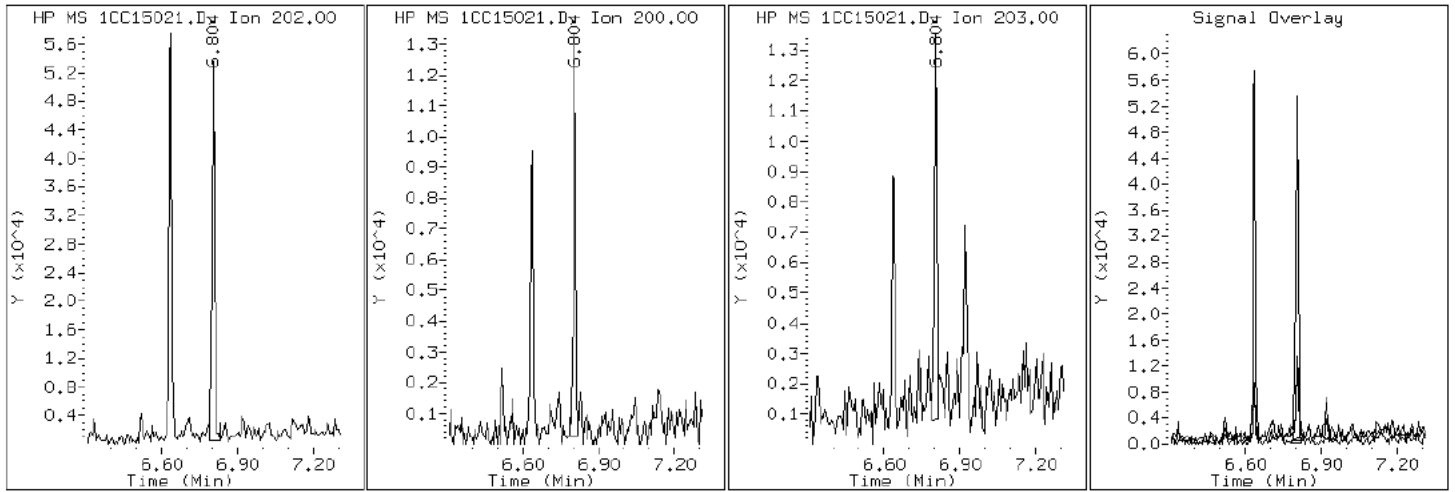
Client ID: CV0822B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-32-a

Operator: SCC

16 Pyrene

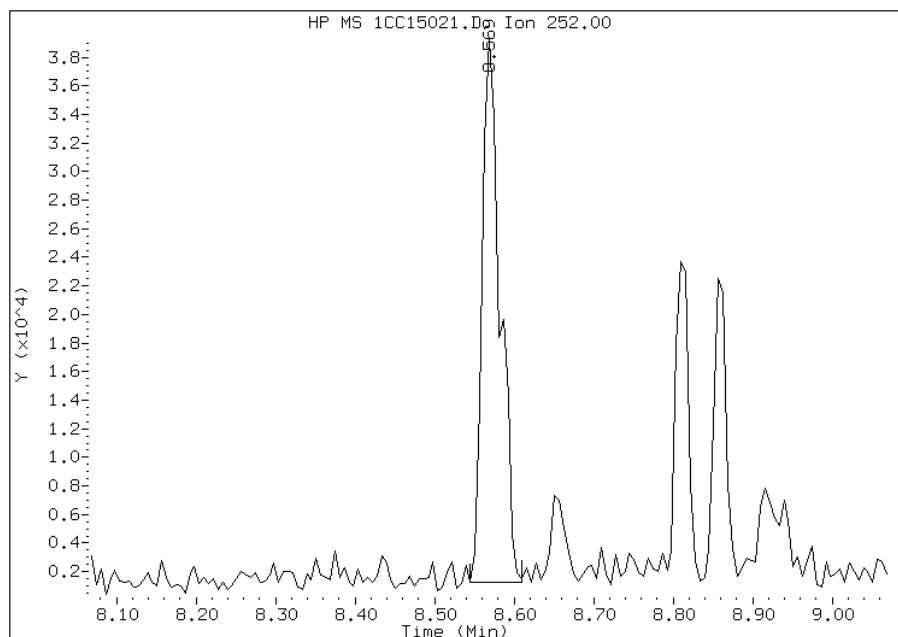


Manual Integration Report

Data File: 1CC15021.D
Inj. Date and Time: 15-MAR-2013 21:26
Instrument ID: BSMC5973.i
Client ID: CV0822B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

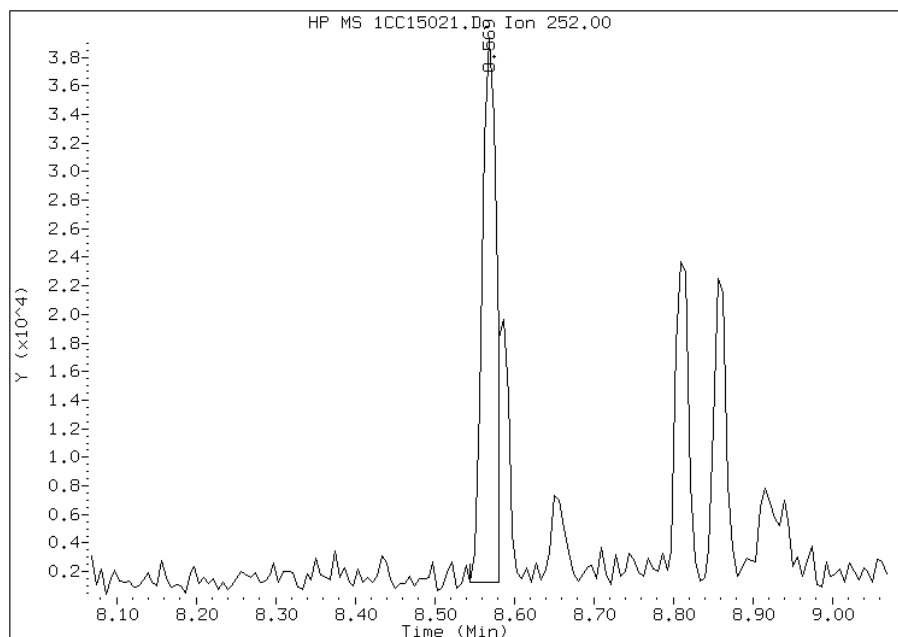
Processing Integration Results

RT: 8.57
Response: 59806
Amount: 1
Conc: 425



Manual Integration Results

RT: 8.57
Response: 47102
Amount: 1
Conc: 335



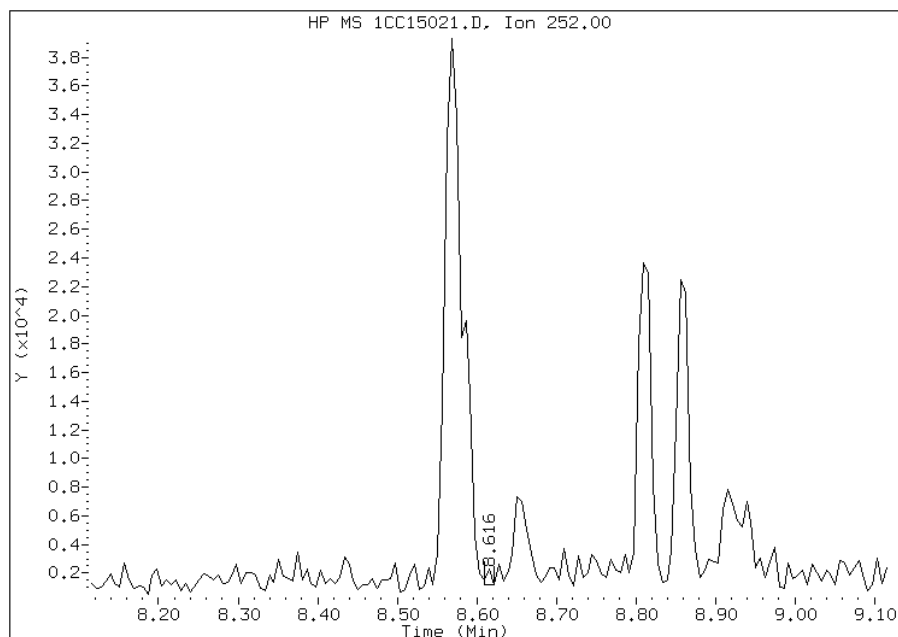
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15021.D
Inj. Date and Time: 15-MAR-2013 21:26
Instrument ID: BSMC5973.i
Client ID: CV0822B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

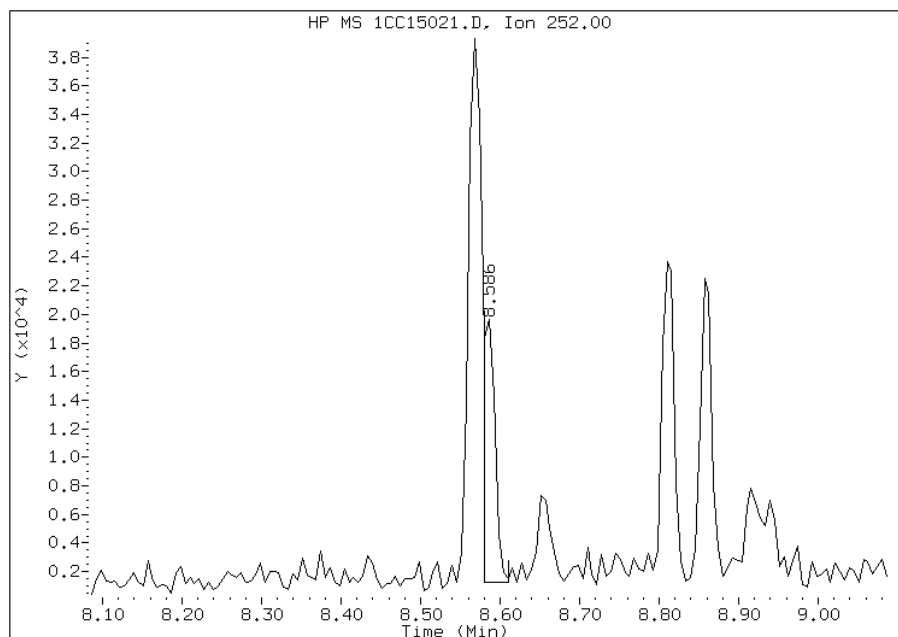
Processing Integration Results

RT: 8.62
Response: 473
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.59
Response: 18647
Amount: 0
Conc: 129



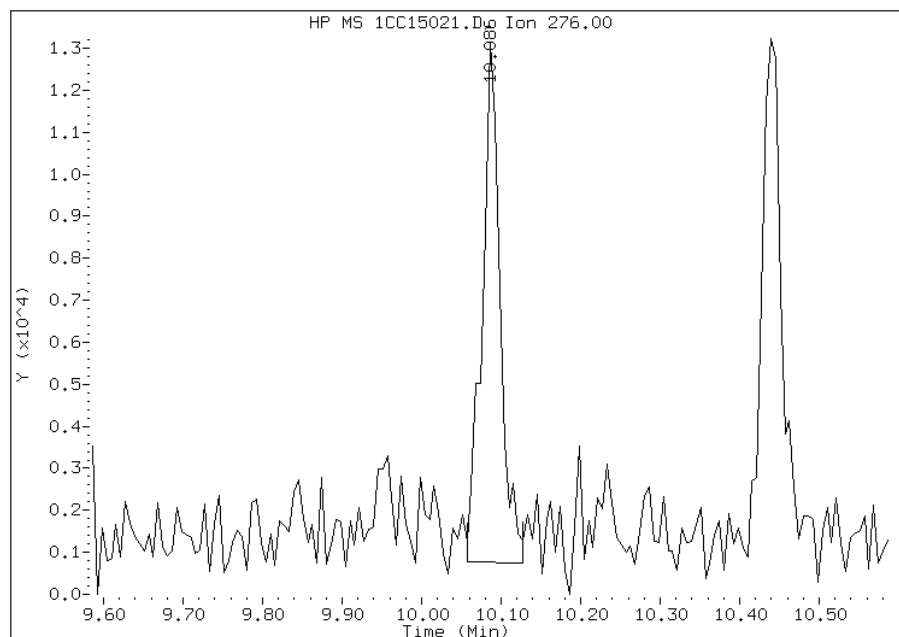
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15021.D
Inj. Date and Time: 15-MAR-2013 21:26
Instrument ID: BSMC5973.i
Client ID: CV0822B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

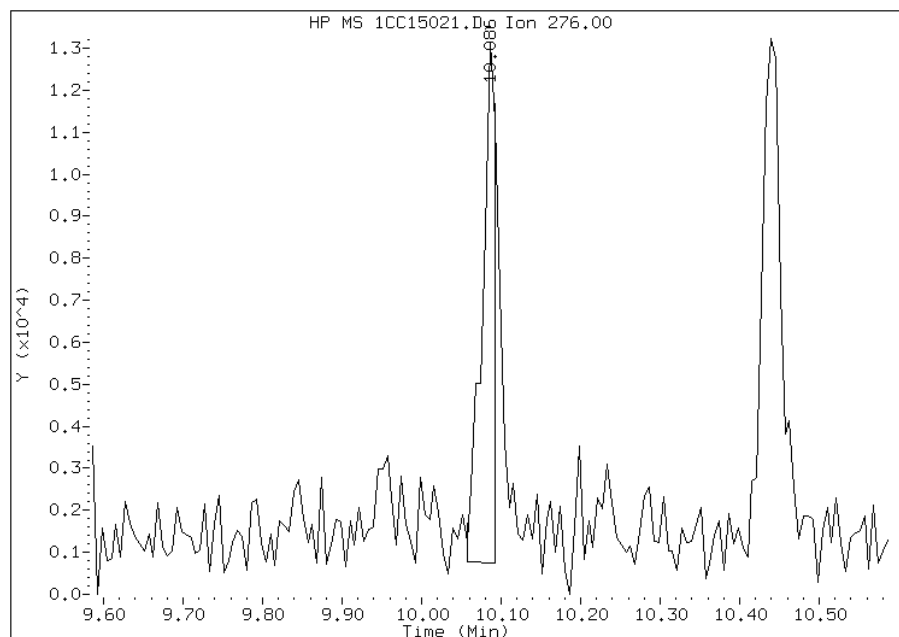
Processing Integration Results

RT: 10.09
Response: 19550
Amount: 0
Conc: 152



Manual Integration Results

RT: 10.09
Response: 14674
Amount: 0
Conc: 114



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822C-CS Lab Sample ID: 680-88118-33
 Matrix: Solid Lab File ID: 1CC15022.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:40
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.23(g) Date Analyzed: 03/15/2013 21:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	73	J	210	27
120-12-7	Anthracene	86		45	22
56-55-3	Benzo[a]anthracene	500		43	21
50-32-8	Benzo[a]pyrene	590		55	28
205-99-2	Benzo[b]fluoranthene	1100		65	32
191-24-2	Benzo[g,h,i]perylene	370		110	23
207-08-9	Benzo[k]fluoranthene	440		43	19
218-01-9	Chrysene	700		48	24
53-70-3	Dibenz(a,h)anthracene	140		110	22
206-44-0	Fluoranthene	640		110	21
86-73-7	Fluorene	59	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	330		110	38
90-12-0	1-Methylnaphthalene	250		210	23
91-57-6	2-Methylnaphthalene	330		210	38
91-20-3	Naphthalene	240		210	23
85-01-8	Phenanthrene	450		43	21
129-00-0	Pyrene	700		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15022.D
 Lab Smp Id: 680-88118-A-33-A Client Smp ID: CV0822C-CS
 Inj Date : 15-MAR-2013 21:44
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-33-a
 Misc Info : 680-88118-A-33-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.230	Weight Extracted
M	25.986	% 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		3.751	3.751	(1.000)	1107583	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	848138	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1551870	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	51503	2.19811	780.0024	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1701356	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1625994	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	19838	0.68799	244.1355	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	18129	0.94255	334.4665	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	12392	0.70741	251.0243	
5 Acenaphthylene	152		4.745	4.751	(0.982)	7013	0.20509	72.7775	
9 Fluorene	166		5.174	5.174	(1.071)	4448	0.16548	58.7214	
11 Phenanthrene	178		5.798	5.804	(1.002)	56730	1.26423	448.6133	
12 Anthracene	178		5.833	5.839	(1.008)	10606	0.24167	85.7580	
13 Carbazole	167		5.939	5.945	(1.026)	11156	0.28597	101.4761	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639	(1.147)	88636	1.80369	640.0405
16 Pyrene	202	6.804	6.810	(0.880)	90203	1.97288	700.0792
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	68700	1.39906	496.4583
19 Chrysene	228	7.745	7.751	(1.002)	96272	1.95909	695.1843
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	136437	3.21079	1139.3540(M)
21 Benzo(k)fluoranthene	252	8.580	8.604	(0.962)	54295	1.24554	441.9821(QMH)
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	68211	1.65260	586.4287
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	35664	0.91851	325.9357(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.127	(1.133)	15459	0.40704	144.4381(M)
26 Benzo(g,h,i)perylene	276	10.445	10.462	(1.172)	41899	1.03155	366.0488

QC Flag Legend

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

Data File: 1CC15022.D

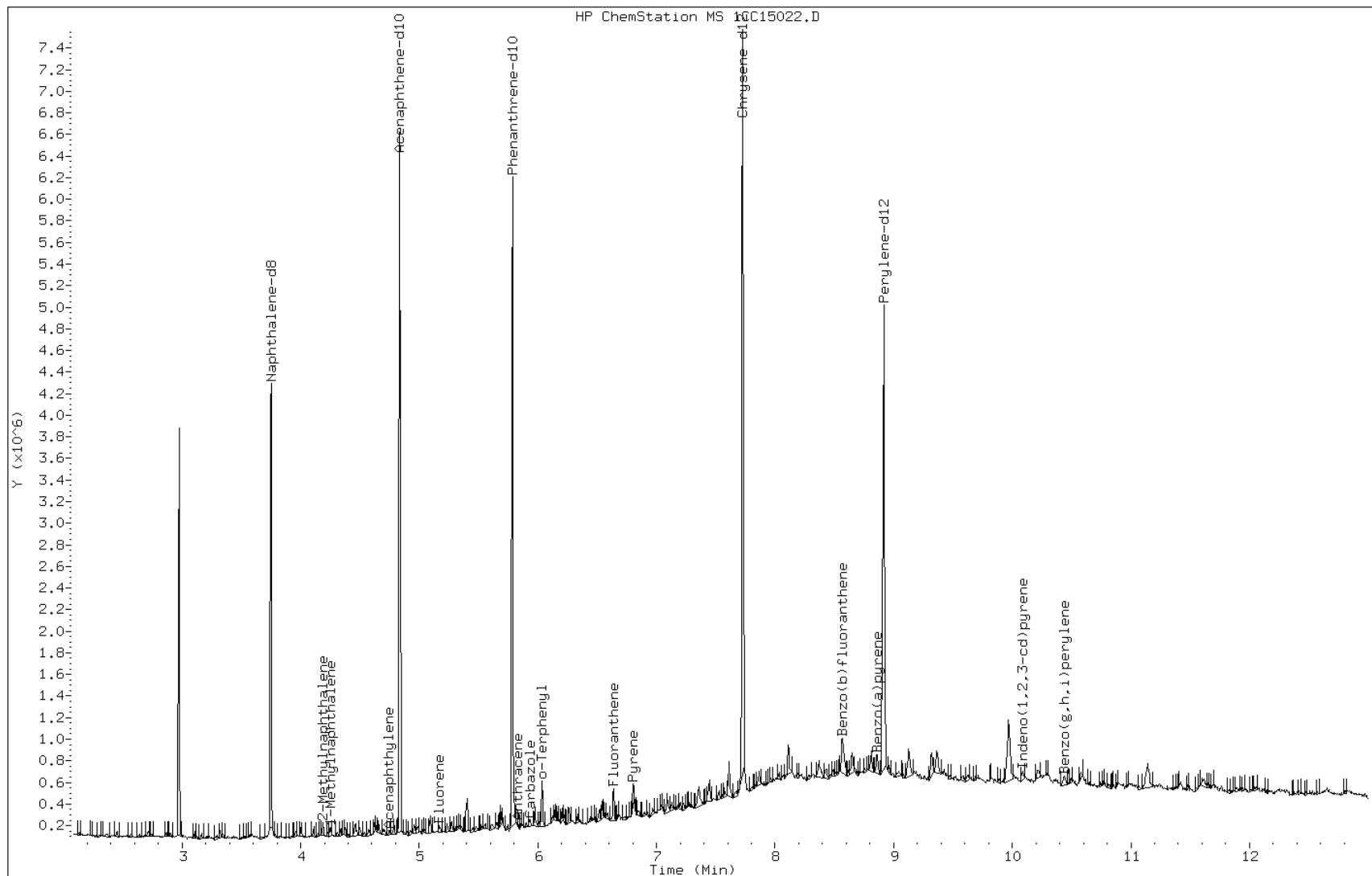
Date: 15-MAR-2013 21:44

Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

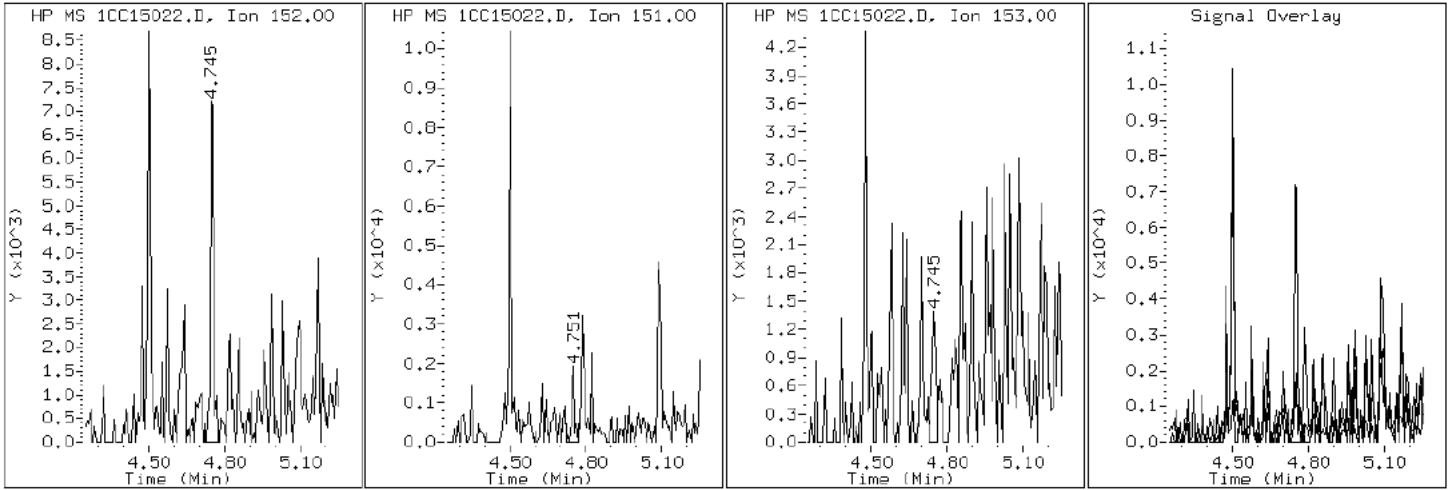
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

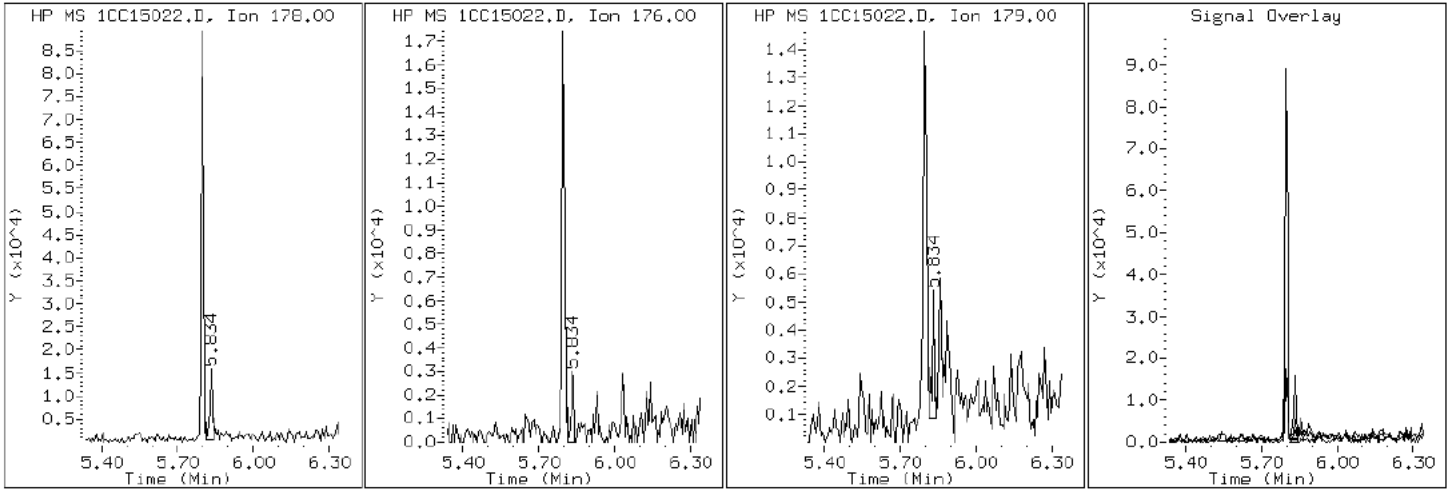
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

12 Anthracene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

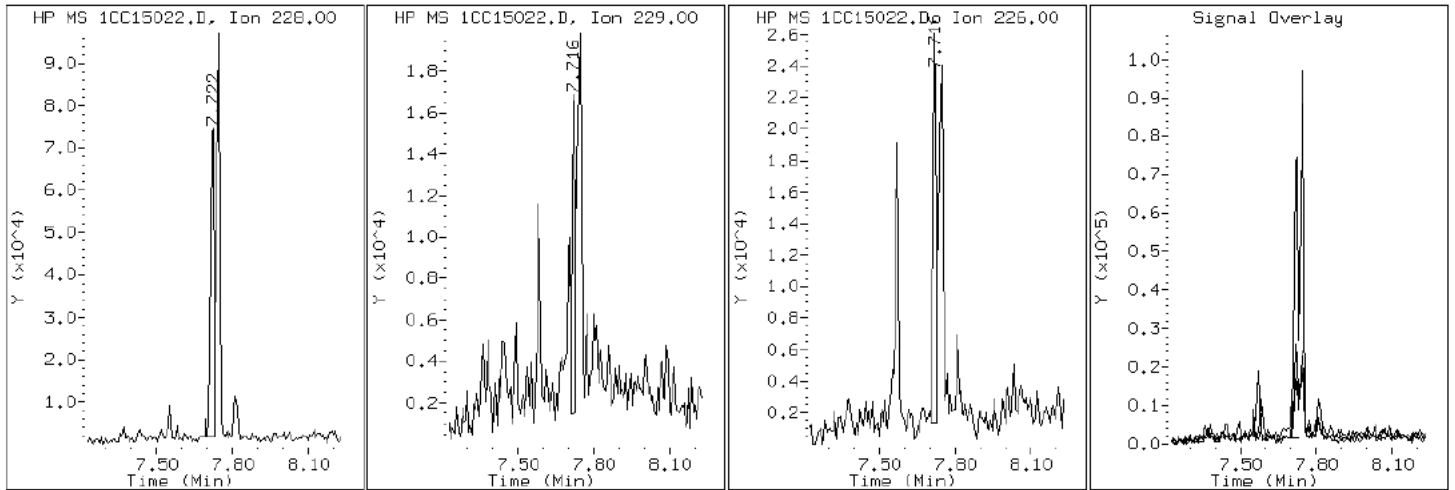
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

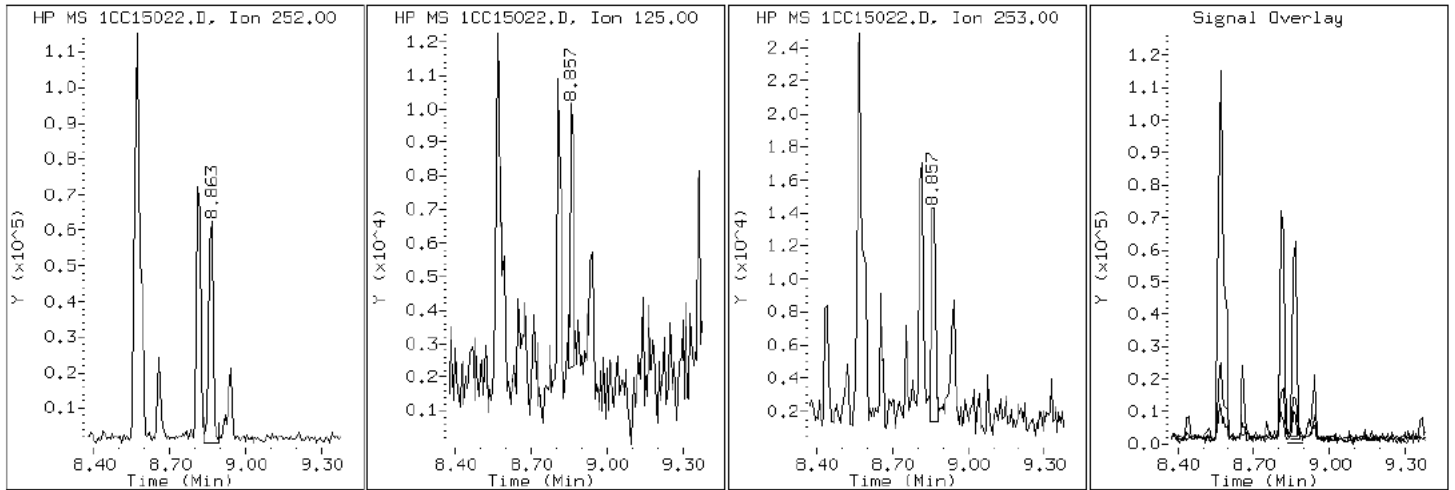
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

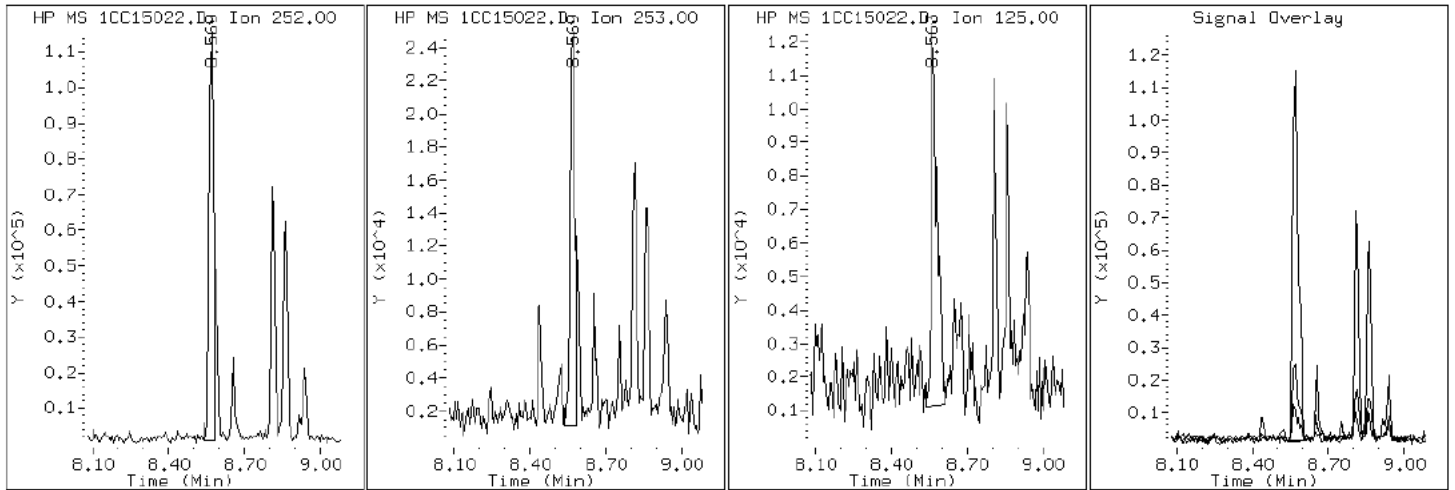
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

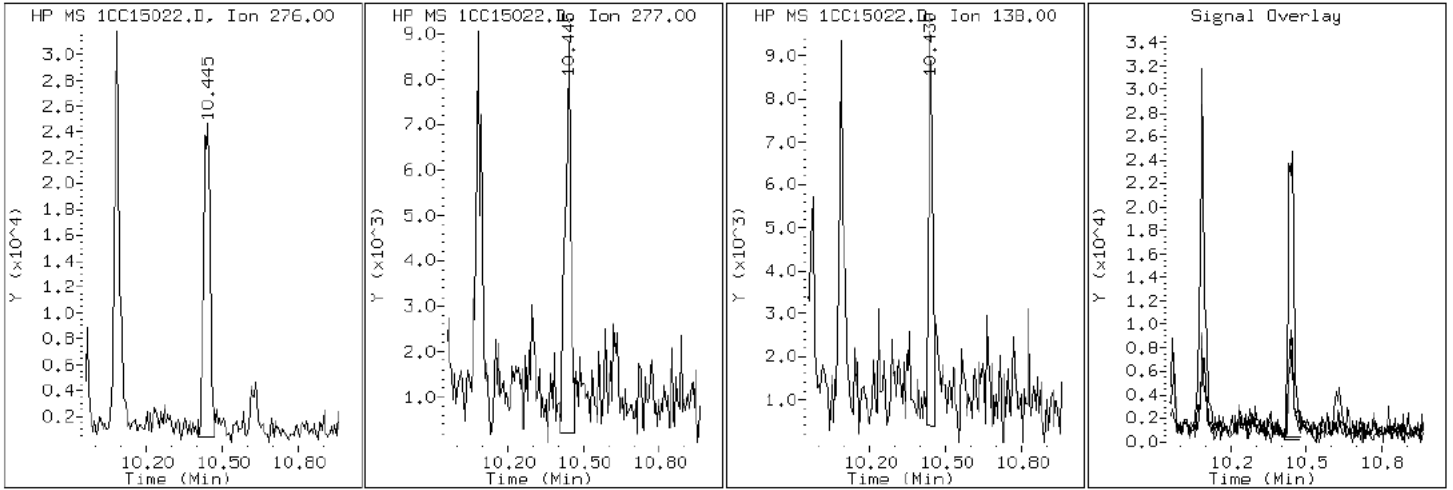
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

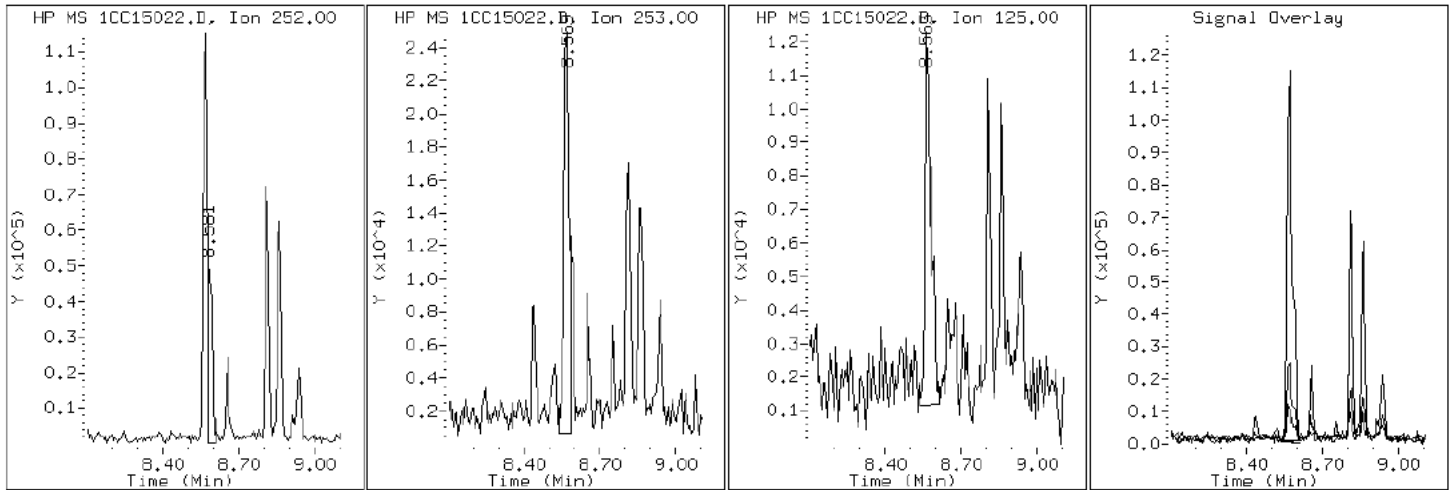
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

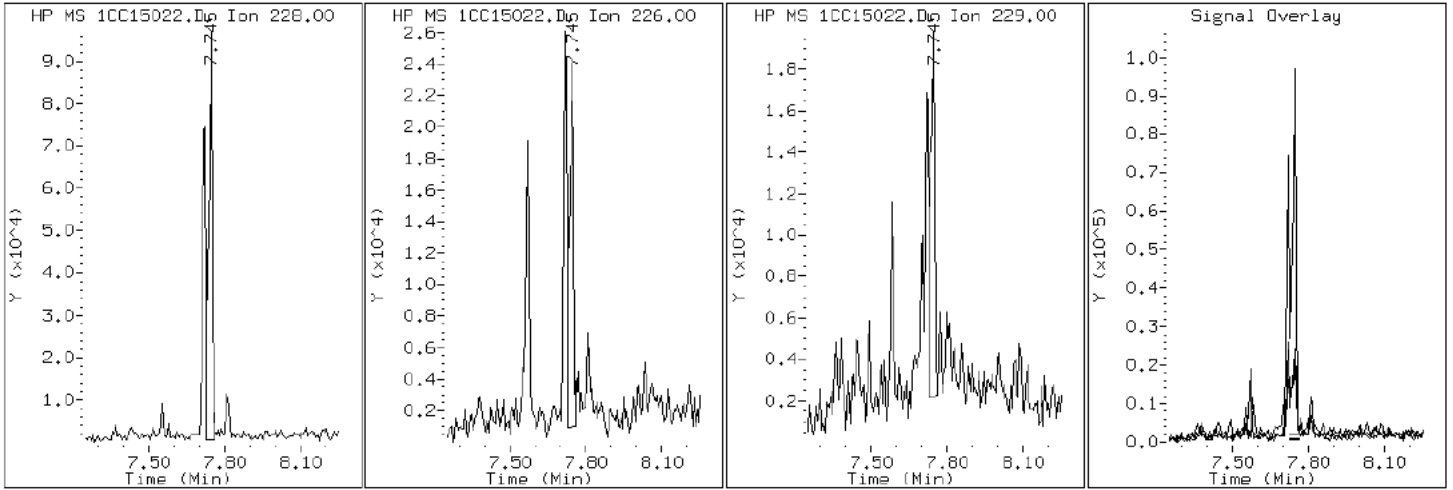
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

19 Chrysene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

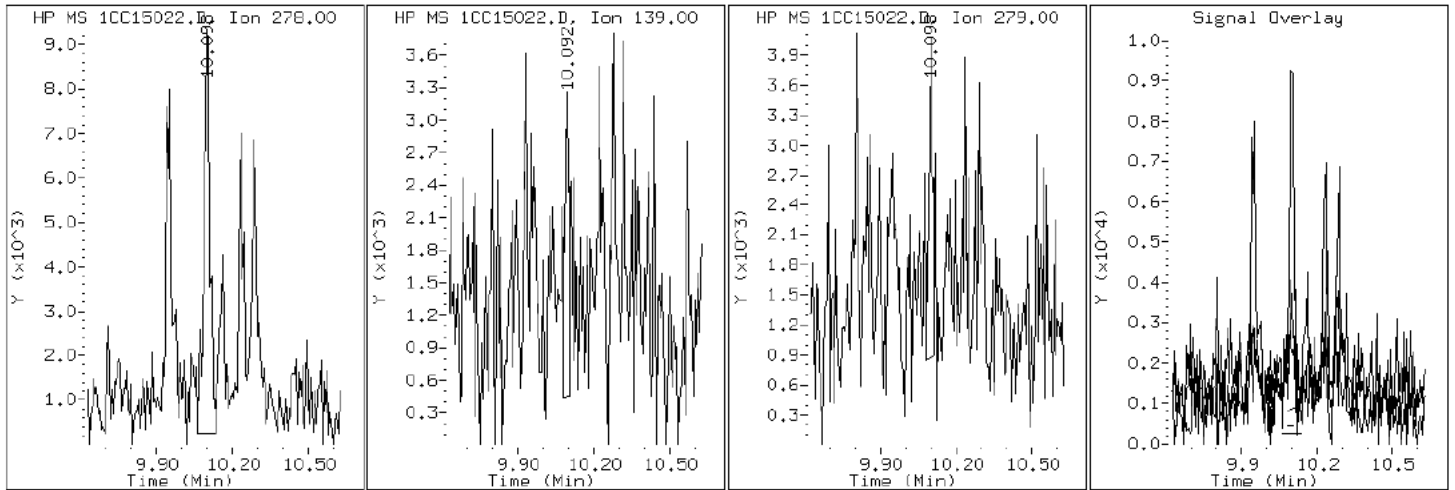
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

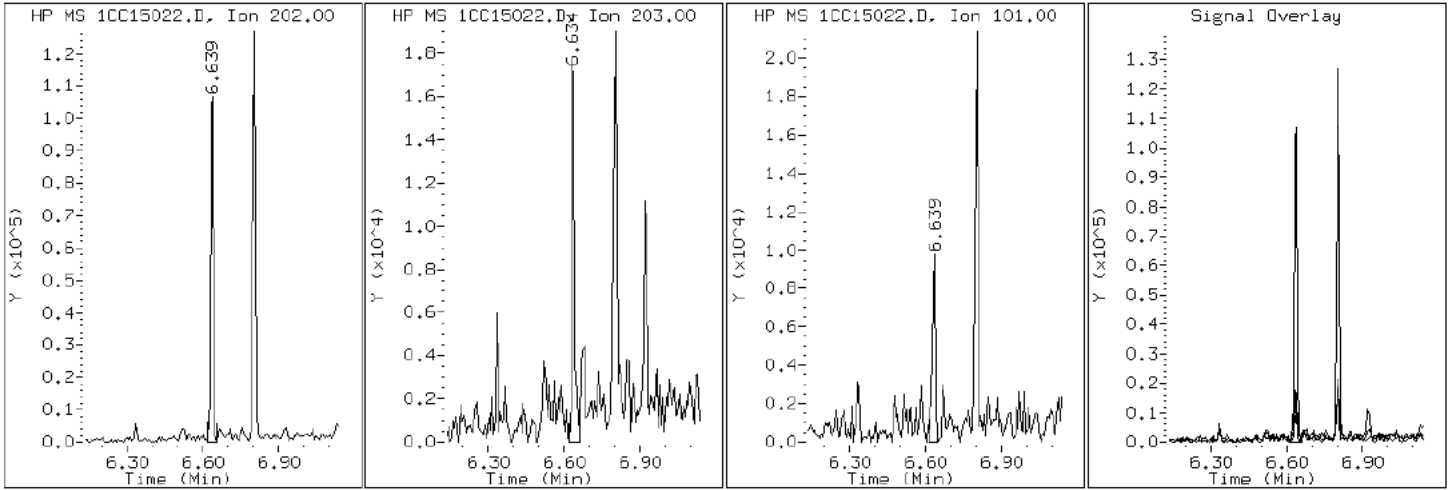
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

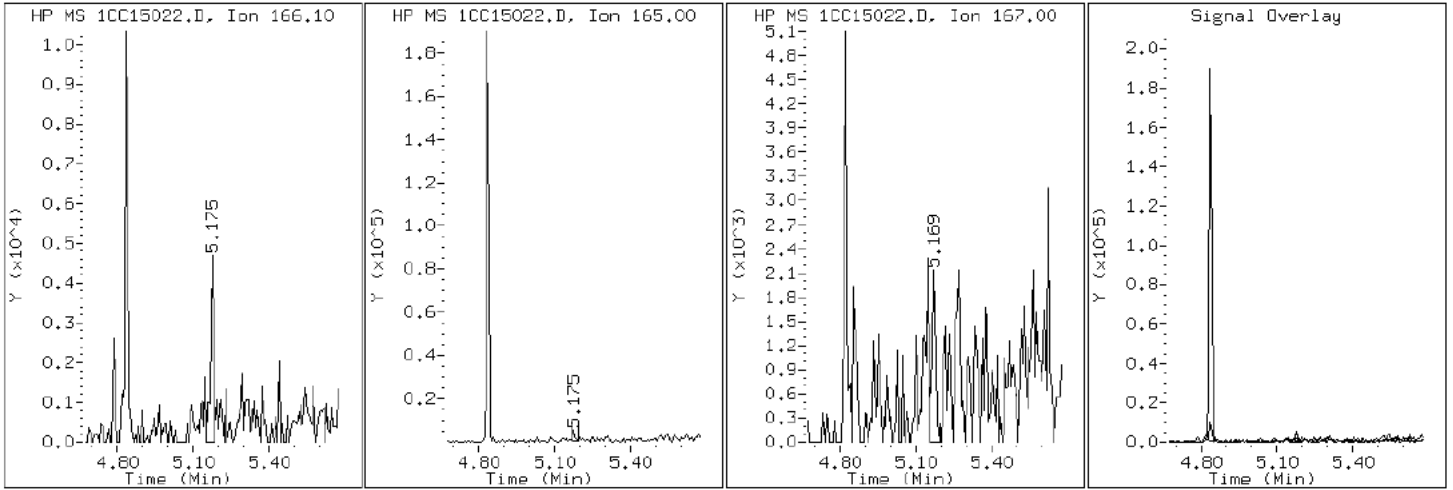
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

9 Fluorene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

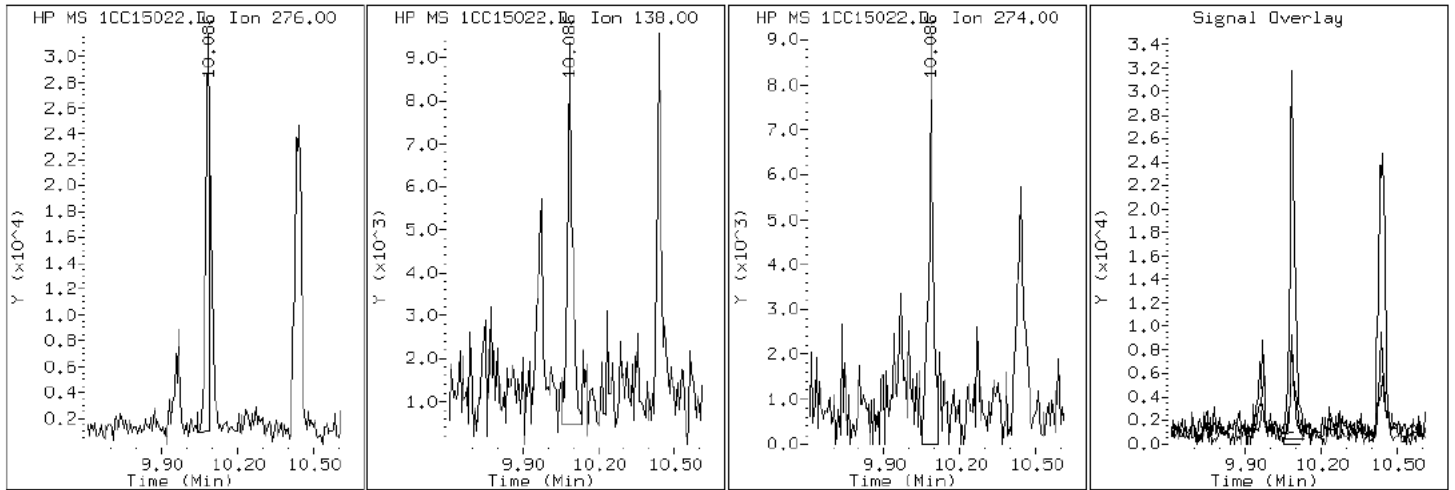
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

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



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

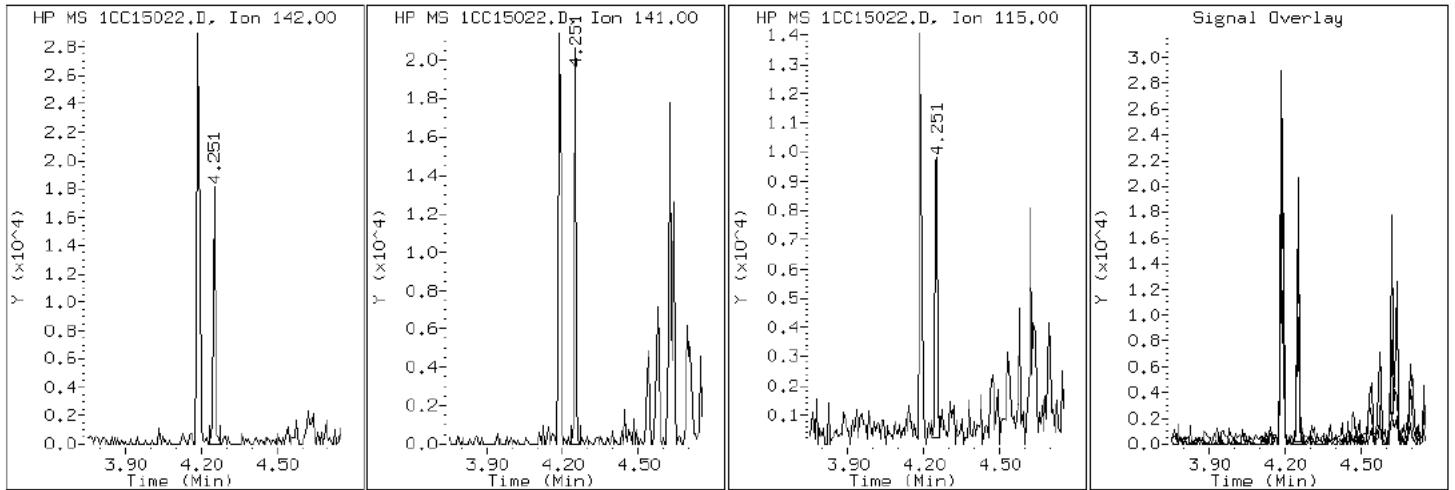
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

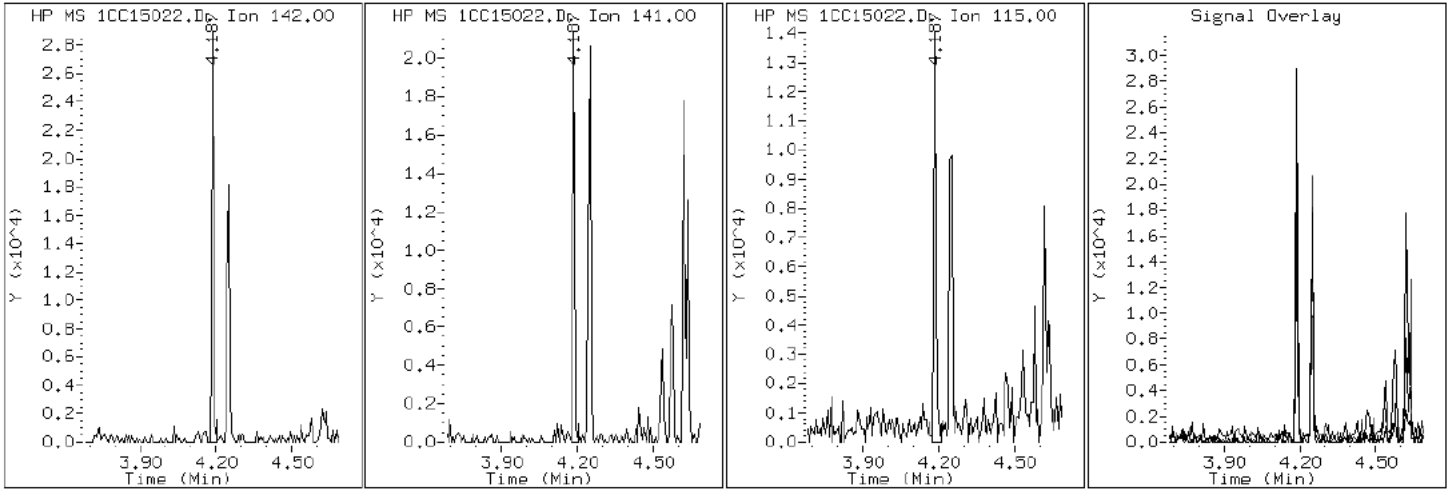
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

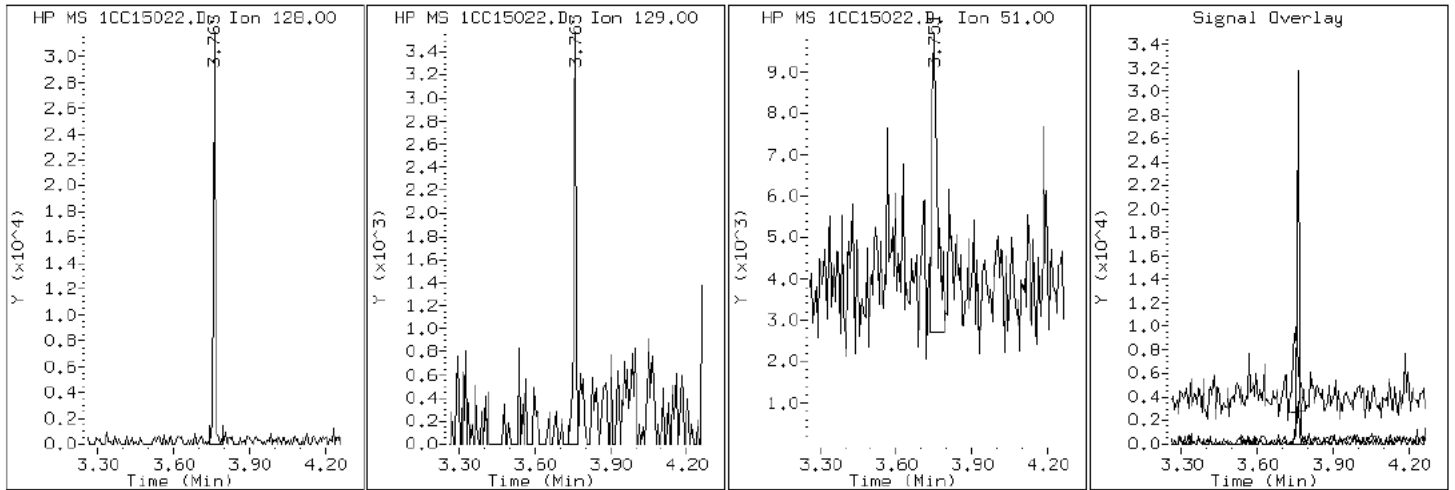
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

2 Naphthalene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

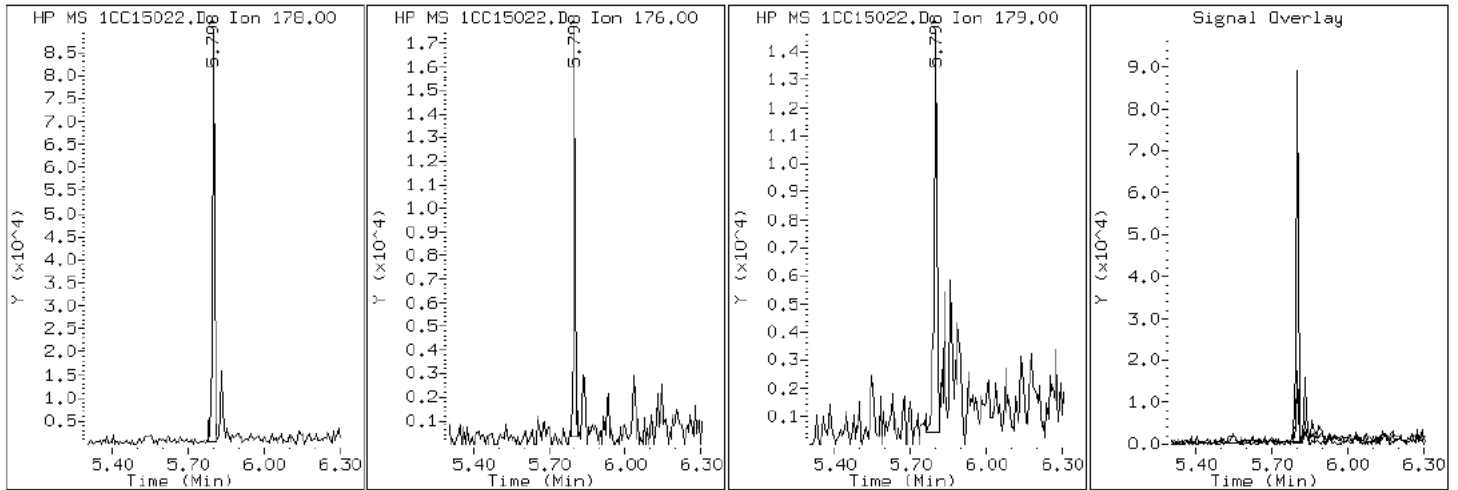
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15022.D

Date: 15-MAR-2013 21:44

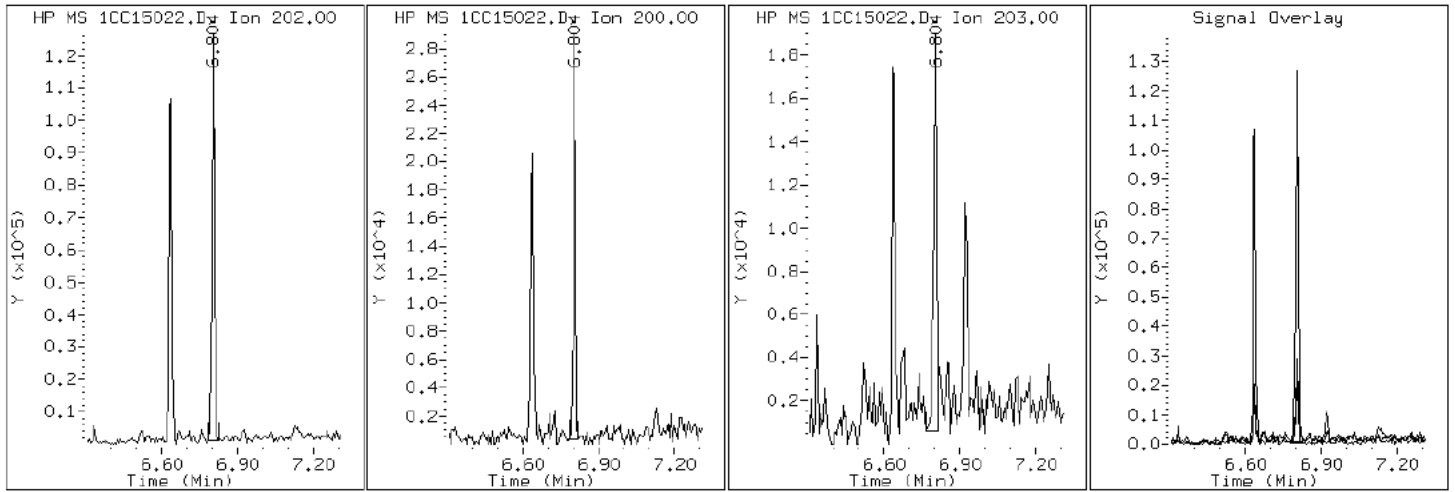
Client ID: CV0822C-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-33-a

Operator: SCC

16 Pyrene

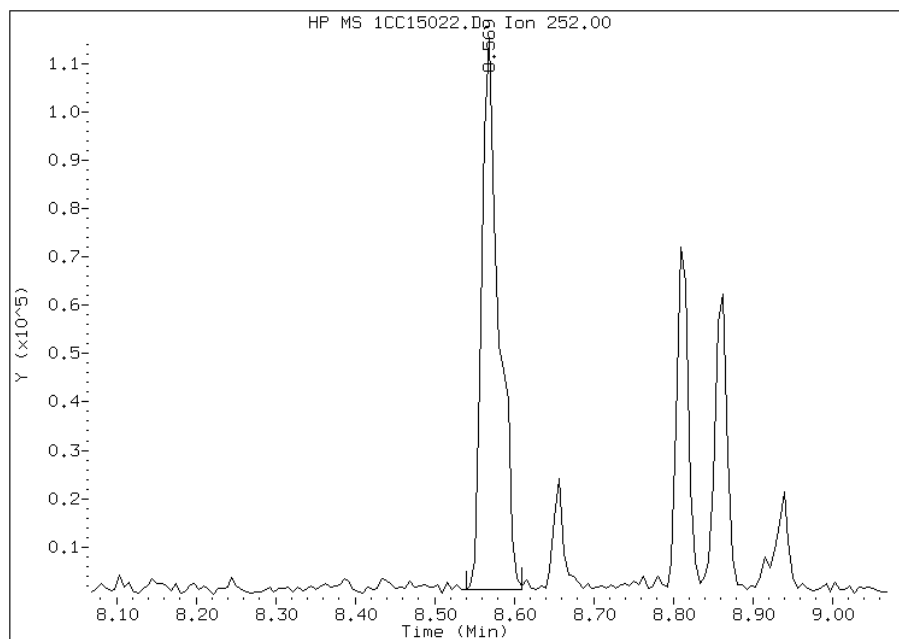


Manual Integration Report

Data File: 1CC15022.D
Inj. Date and Time: 15-MAR-2013 21:44
Instrument ID: BSMC5973.i
Client ID: CV0822C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

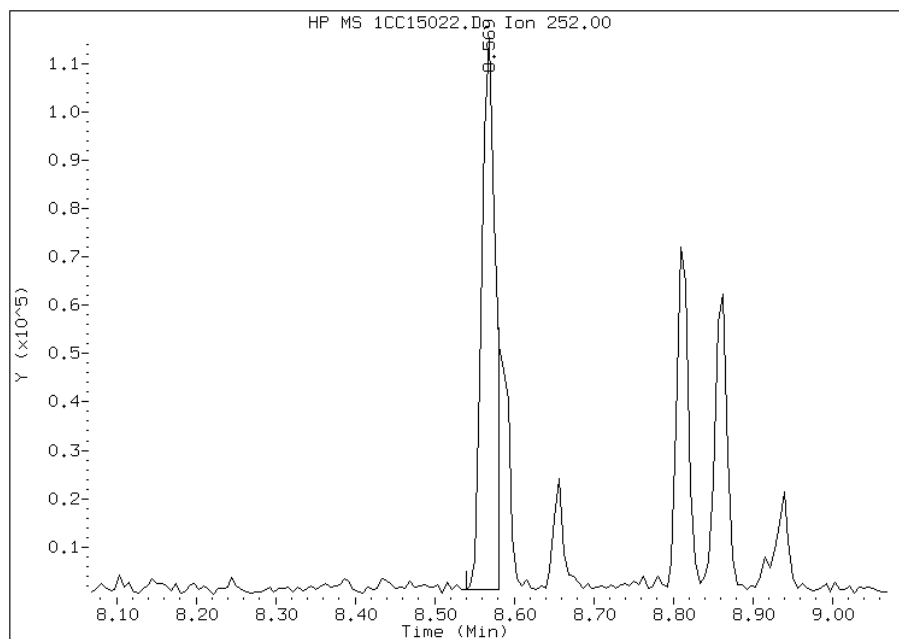
Processing Integration Results

RT: 8.57
Response: 171239
Amount: 4
Conc: 1430



Manual Integration Results

RT: 8.57
Response: 136437
Amount: 3
Conc: 1139



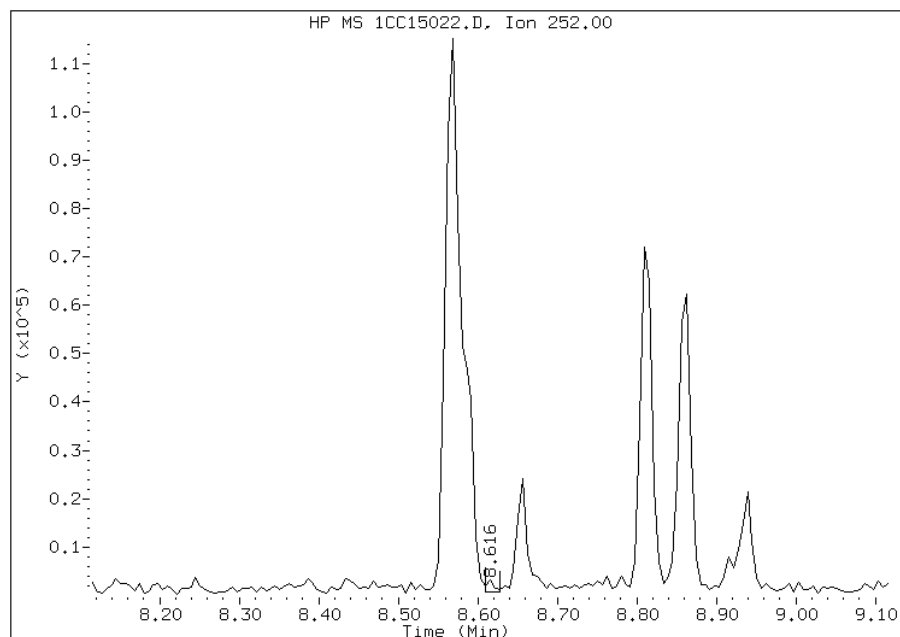
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15022.D
Inj. Date and Time: 15-MAR-2013 21:44
Instrument ID: BSMC5973.i
Client ID: CV0822C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

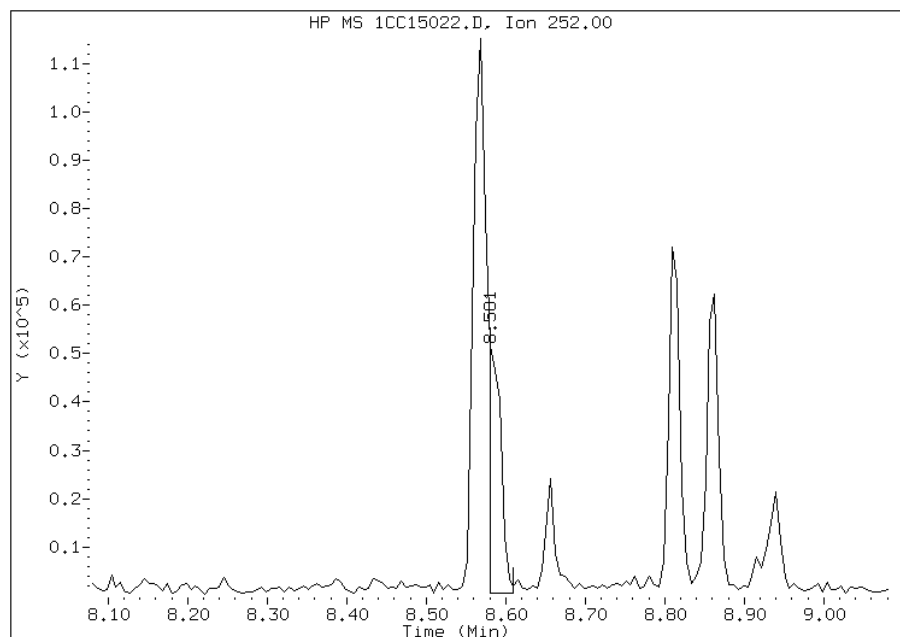
Processing Integration Results

RT: 8.62
Response: 1922
Amount: 0
Conc: 16



Manual Integration Results

RT: 8.58
Response: 54295
Amount: 1
Conc: 442



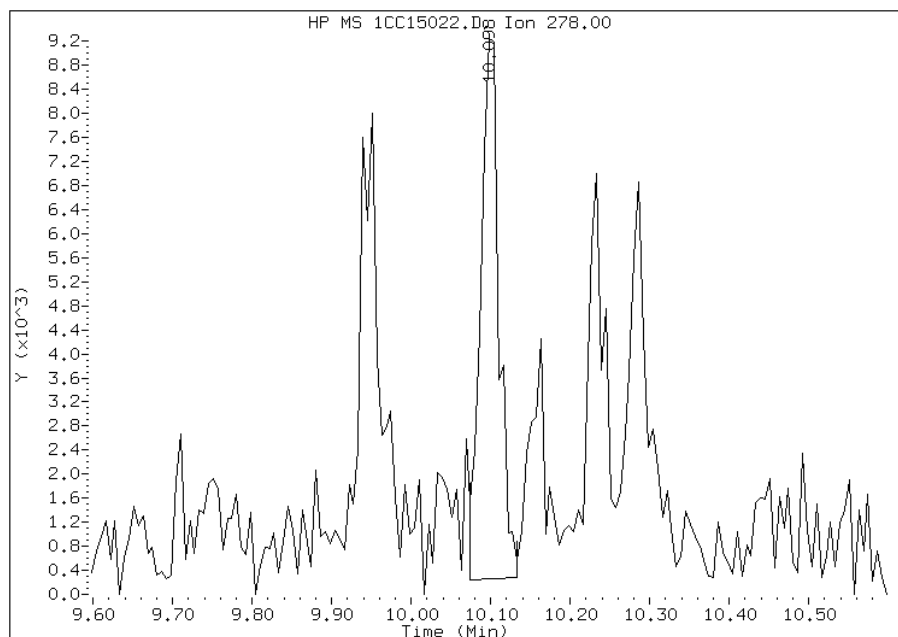
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15022.D
Inj. Date and Time: 15-MAR-2013 21:44
Instrument ID: BSMC5973.i
Client ID: CV0822C-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

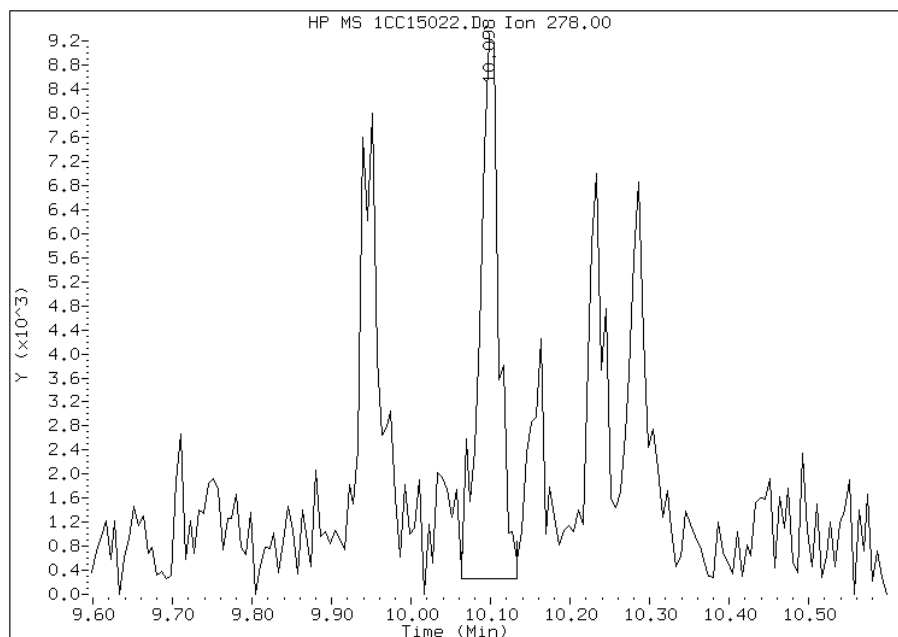
Processing Integration Results

RT: 10.10
Response: 14577
Amount: 0
Conc: 136



Manual Integration Results

RT: 10.10
Response: 15459
Amount: 0
Conc: 144



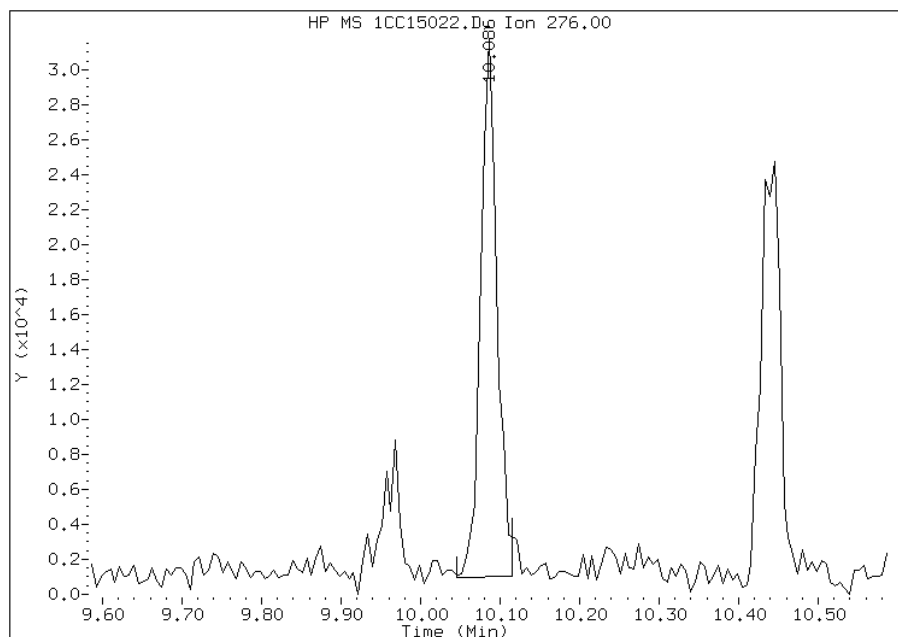
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15022.D
Inj. Date and Time: 15-MAR-2013 21:44
Instrument ID: BSMC5973.i
Client ID: CV0822C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

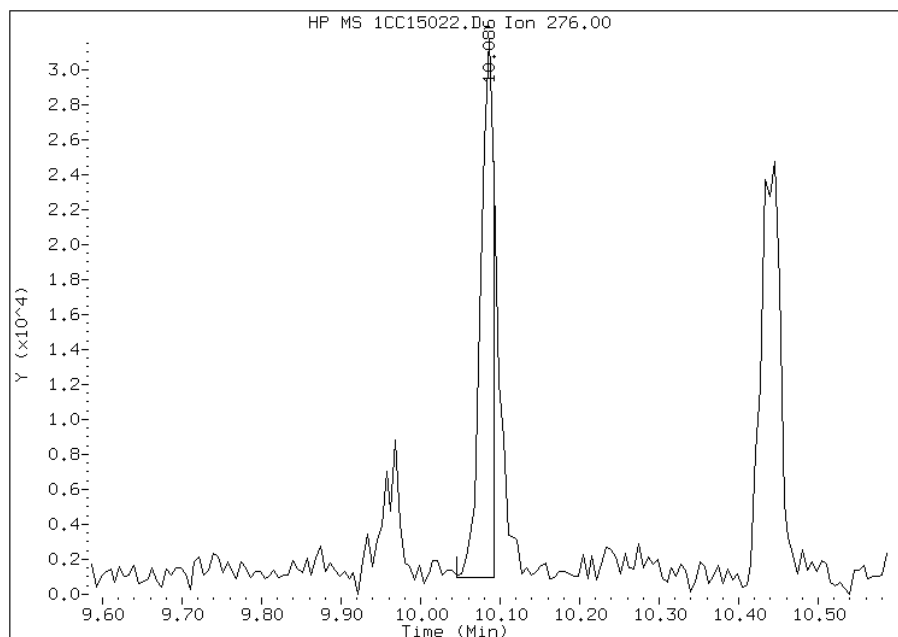
Processing Integration Results

RT: 10.09
Response: 44019
Amount: 1
Conc: 402



Manual Integration Results

RT: 10.09
Response: 35664
Amount: 1
Conc: 326



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822D-CS Lab Sample ID: 680-88118-34
 Matrix: Solid Lab File ID: 1CC15023.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 12:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.06(g) Date Analyzed: 03/15/2013 22:02
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 29.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	7.8	J	56	7.0
120-12-7	Anthracene	17		12	5.9
56-55-3	Benzo[a]anthracene	62		11	5.5
50-32-8	Benzo[a]pyrene	54		15	7.3
205-99-2	Benzo[b]fluoranthene	94		17	8.6
191-24-2	Benzo[g,h,i]perylene	49		28	6.2
207-08-9	Benzo[k]fluoranthene	34		11	5.1
218-01-9	Chrysene	86		13	6.3
53-70-3	Dibenz(a,h)anthracene	11	J	28	5.8
206-44-0	Fluoranthene	90		28	5.6
86-73-7	Fluorene	6.9	J	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	38		28	10
90-12-0	1-Methylnaphthalene	50	J	56	6.2
91-57-6	2-Methylnaphthalene	54	J	56	10
91-20-3	Naphthalene	45	J	56	6.2
85-01-8	Phenanthrene	85		11	5.5
129-00-0	Pyrene	81		28	5.2

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15023.D
 Lab Smp Id: 680-88118-A-34-A Client Smp ID: CV0822D-CS
 Inj Date : 15-MAR-2013 22:02
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-34-a
 Misc Info : 680-88118-A-34-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.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	15.060	Weight Extracted
M	29.046	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.751	3.751	(1.000)	1305168	40.0000	
* 6 Acenaphthene-d10	164	4.833	4.839	(1.000)	988238	40.0000	
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1809548	40.0000	
\$ 14 o-Terphenyl	230	6.033	6.039	(1.043)	146961	5.37903	503.3846
* 18 Chrysene-d12	240	7.727	7.733	(1.000)	1908862	40.0000	
* 23 Perylene-d12	264	8.915	8.927	(1.000)	1794812	40.0000	
2 Naphthalene	128	3.763	3.763	(1.003)	16271	0.47886	44.8132
3 2-Methylnaphthalene	142	4.186	4.186	(1.116)	12966	0.57207	53.5357
4 1-Methylnaphthalene	142	4.251	4.251	(1.133)	11058	0.53569	50.1314
5 Acenaphthylene	152	4.751	4.751	(0.983)	3307	0.08300	7.7675
9 Fluorene	166	5.174	5.174	(1.071)	2310	0.07376	6.9023(Q)
11 Phenanthrene	178	5.798	5.804	(1.002)	47684	0.91132	85.2838
12 Anthracene	178	5.833	5.839	(1.008)	9105	0.17793	16.6509
13 Carbazole	167	5.939	5.945	(1.026)	6335	0.13926	13.0327

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.639	6.639	(1.147)	54859	0.95738	89.5941
16 Pyrene	202	6.804	6.810	(0.880)	44375	0.86504	80.9532
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	36292	0.65874	61.6462
19 Chrysene	228	7.745	7.751	(1.002)	50949	0.92408	86.4779
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	47286	1.00812	94.3427(M)
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	17672	0.36727	34.3700(QM)
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	26343	0.57820	54.1097
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	17338	0.40453	37.8573(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	4902	0.11693	10.9426(QM)
26 Benzo(g,h,i)perylene	276	10.445	10.462	(1.172)	23577	0.52587	49.2122(M)

QC Flag Legend

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

Data File: 1CC15023.D

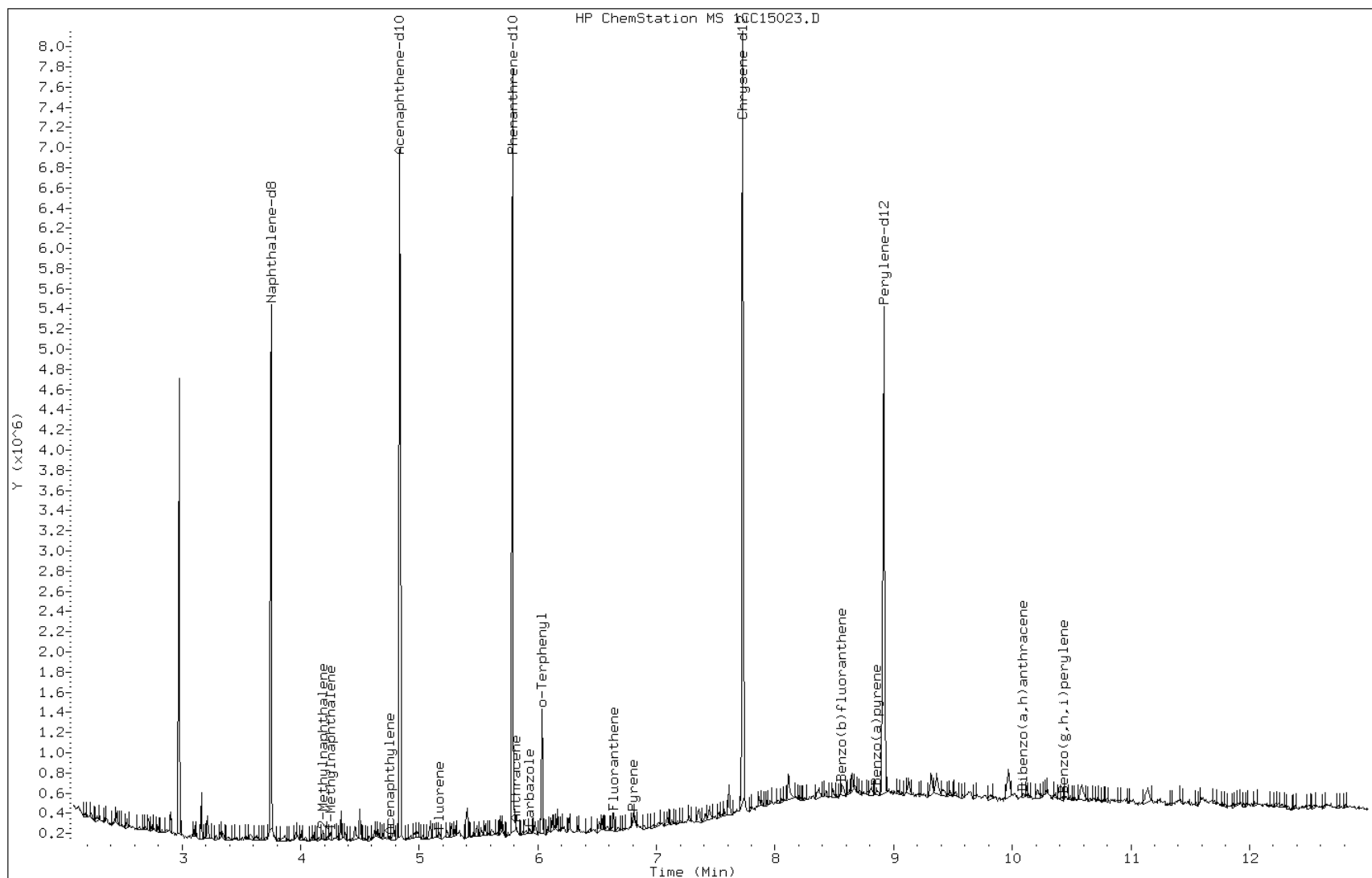
Date: 15-MAR-2013 22:02

Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

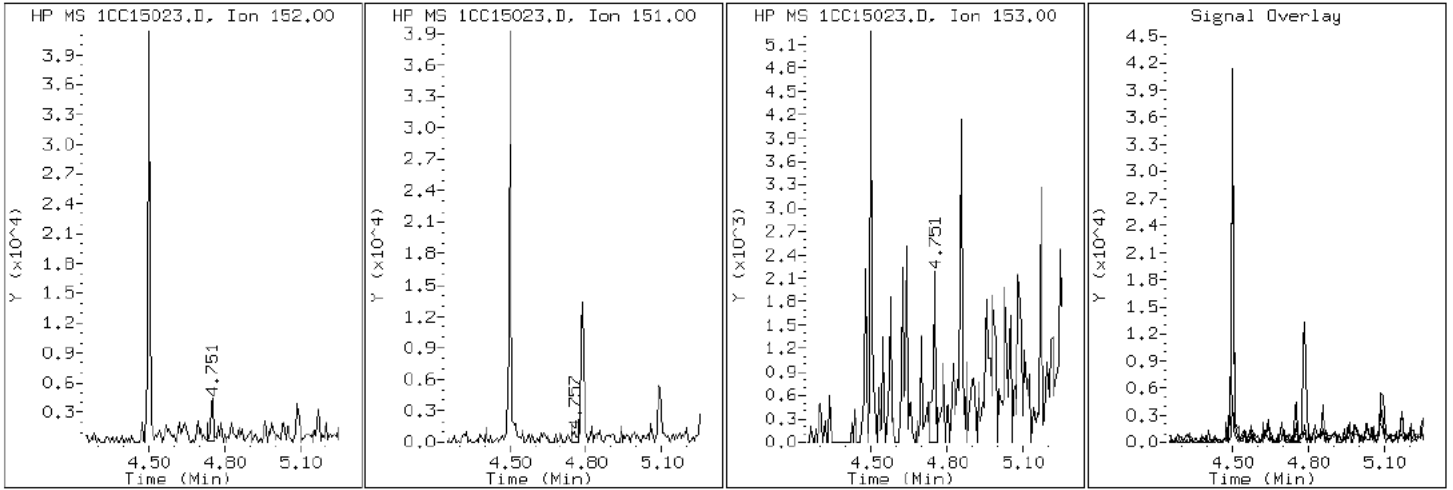
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

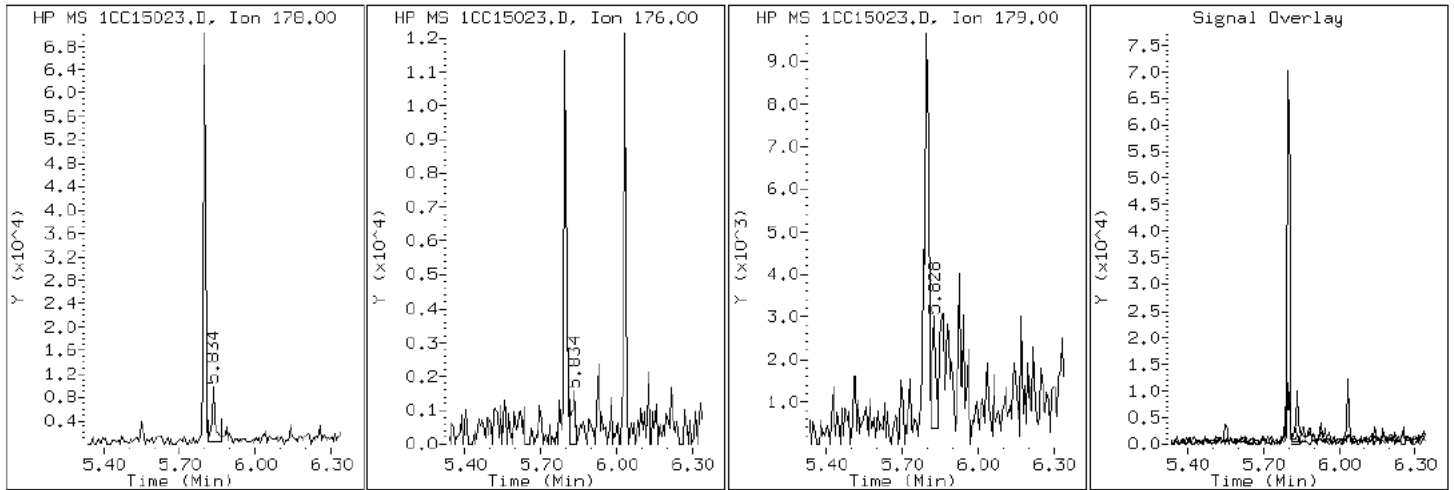
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

12 Anthracene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

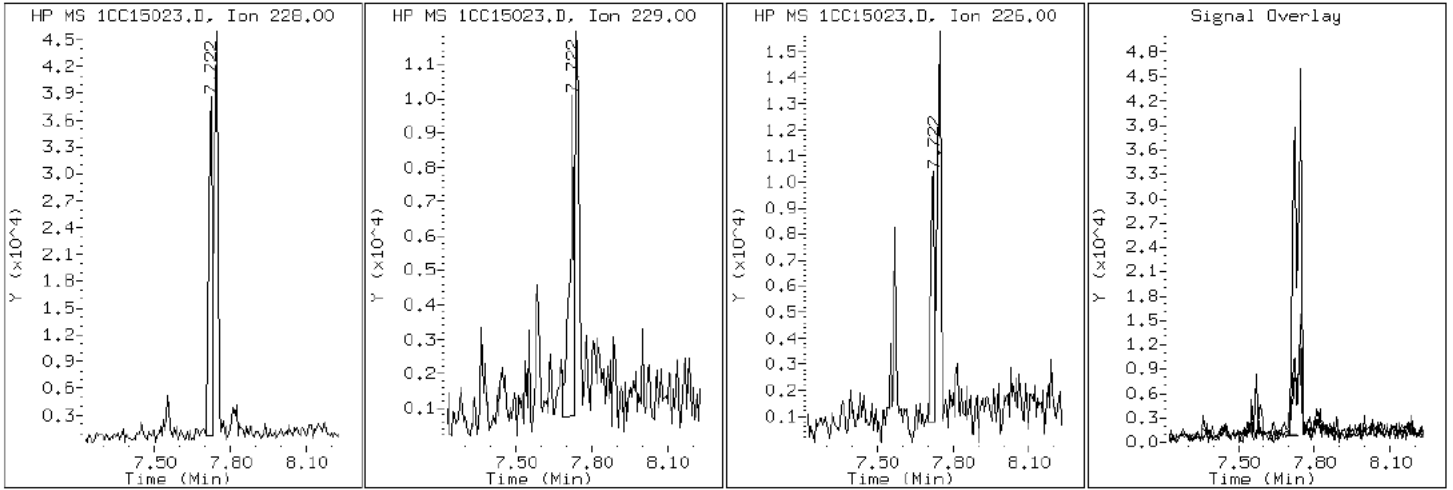
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

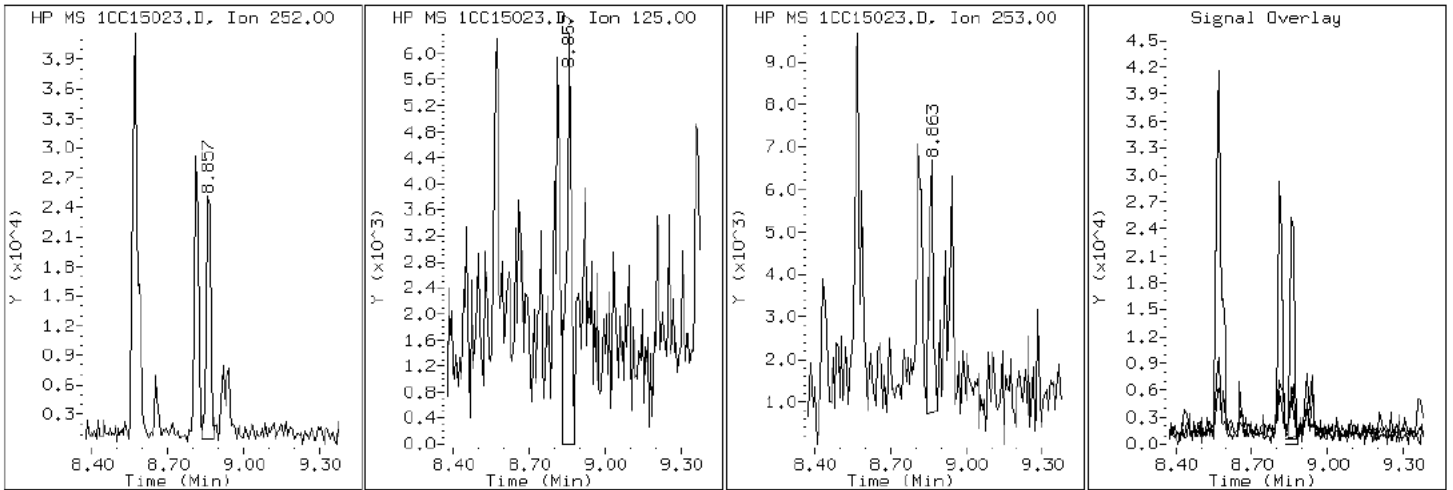
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

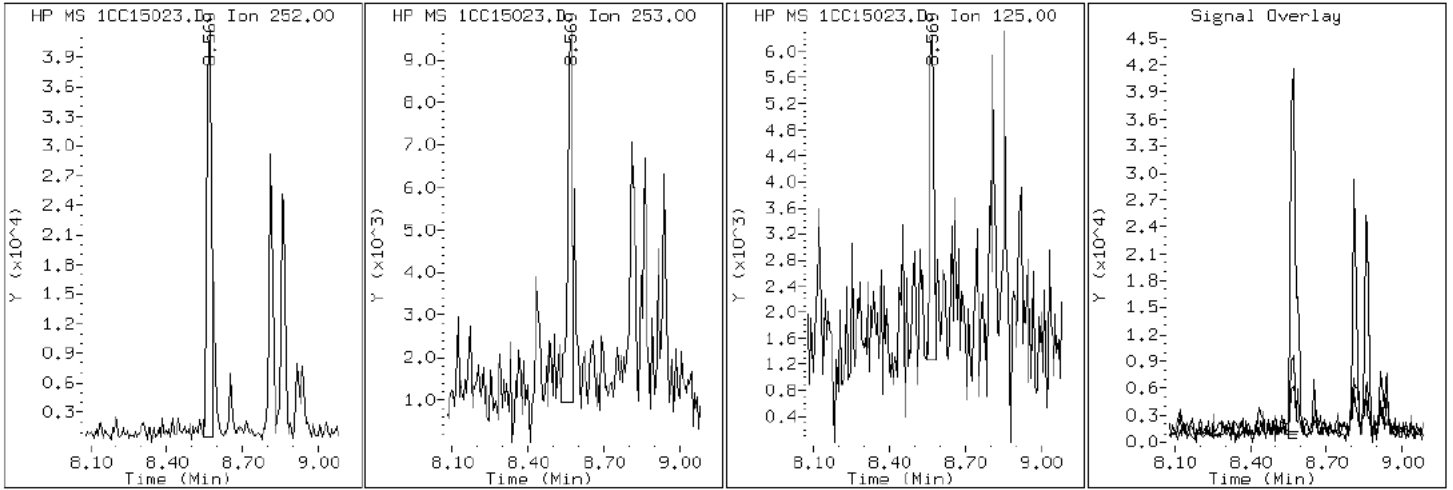
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

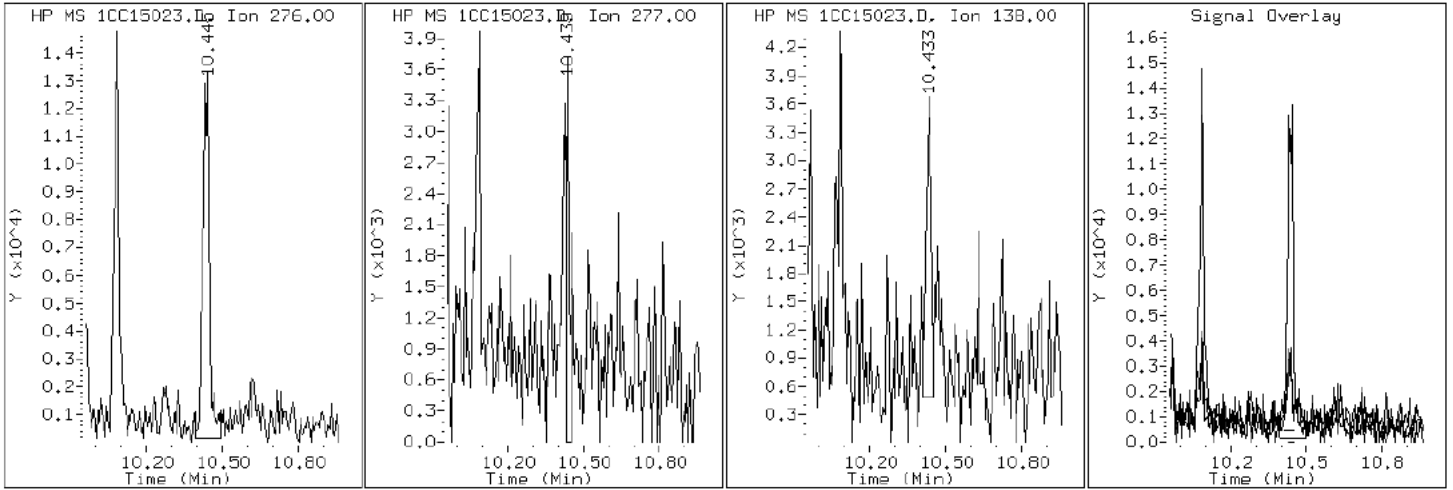
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

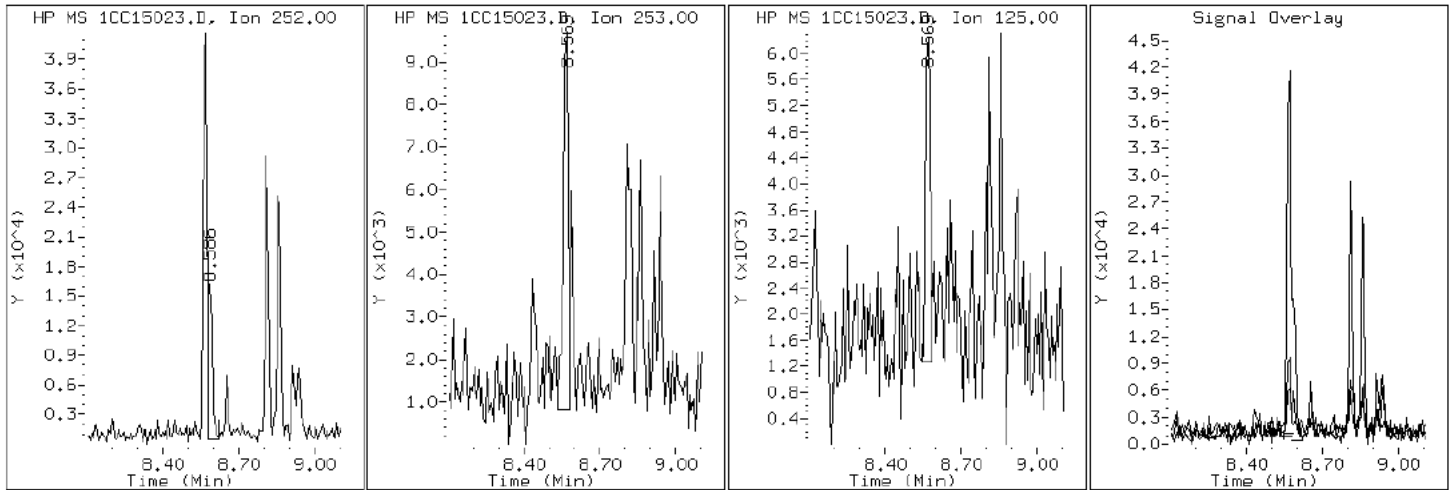
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

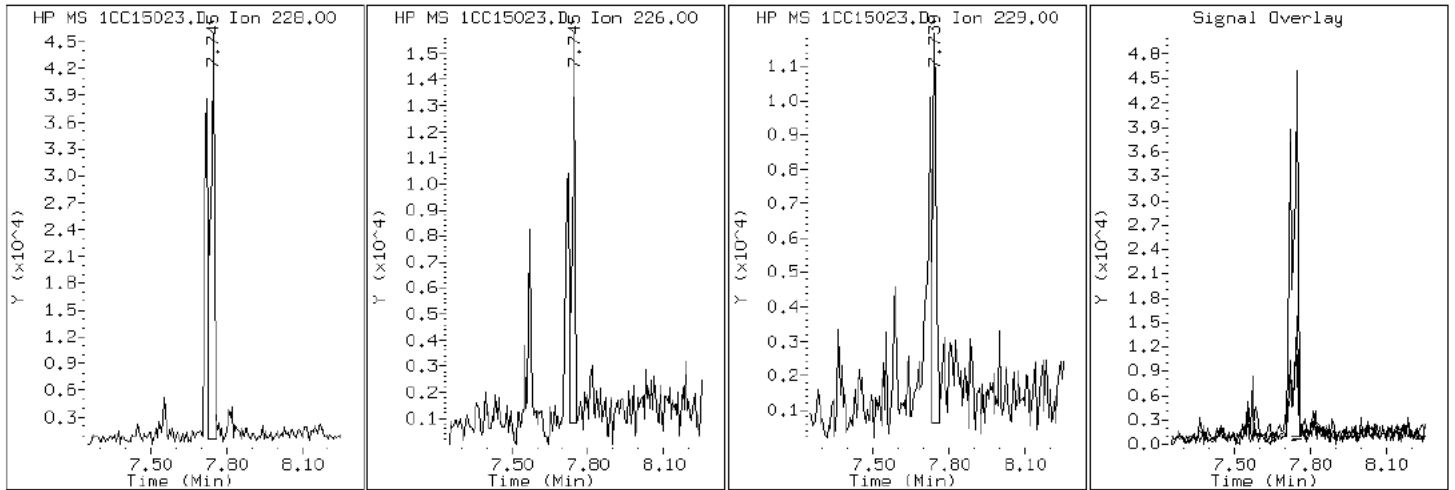
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

19 Chrysene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

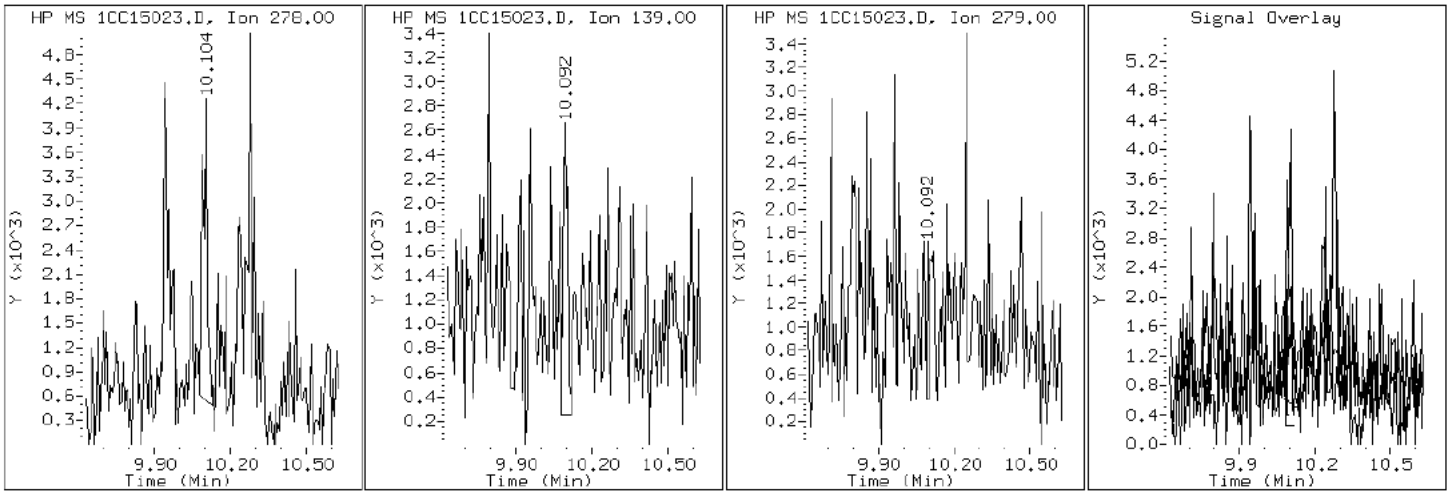
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

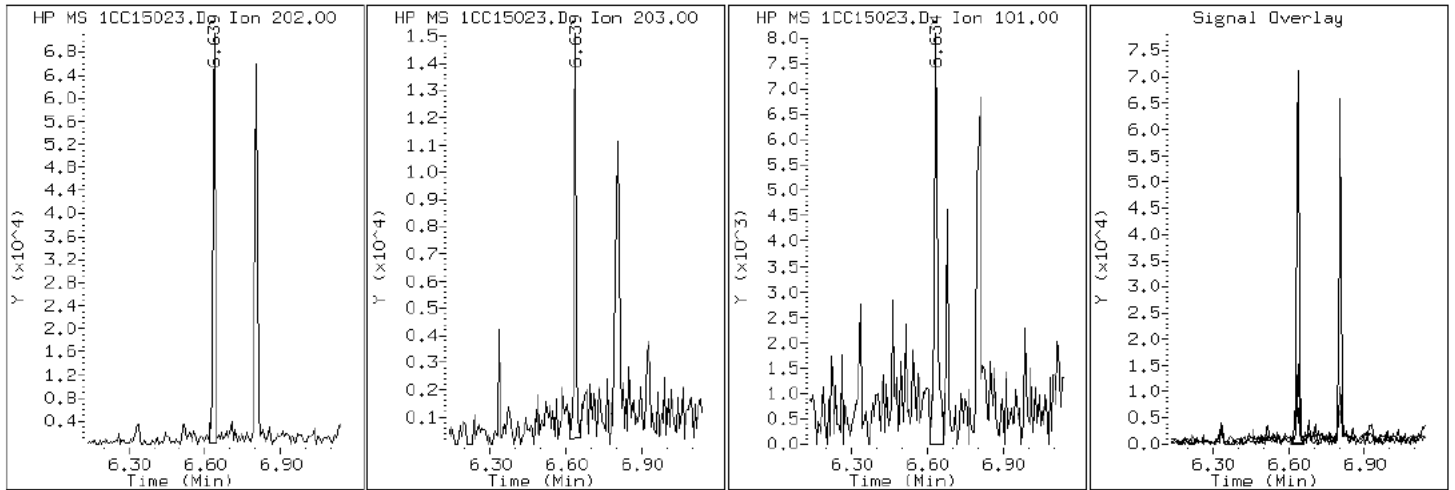
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

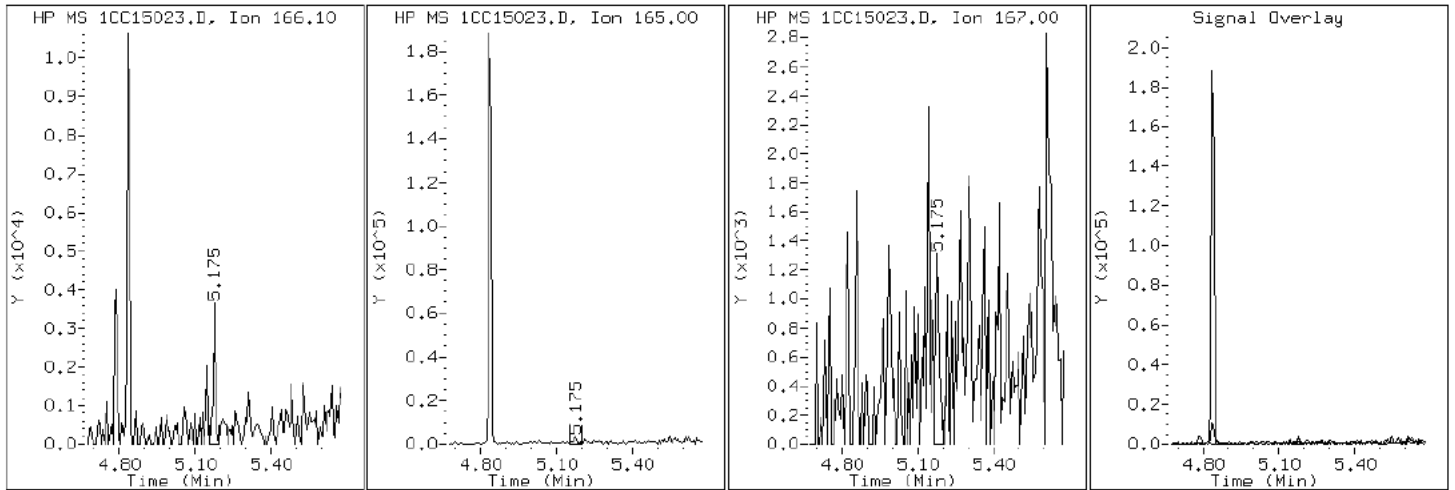
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

9 Fluorene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

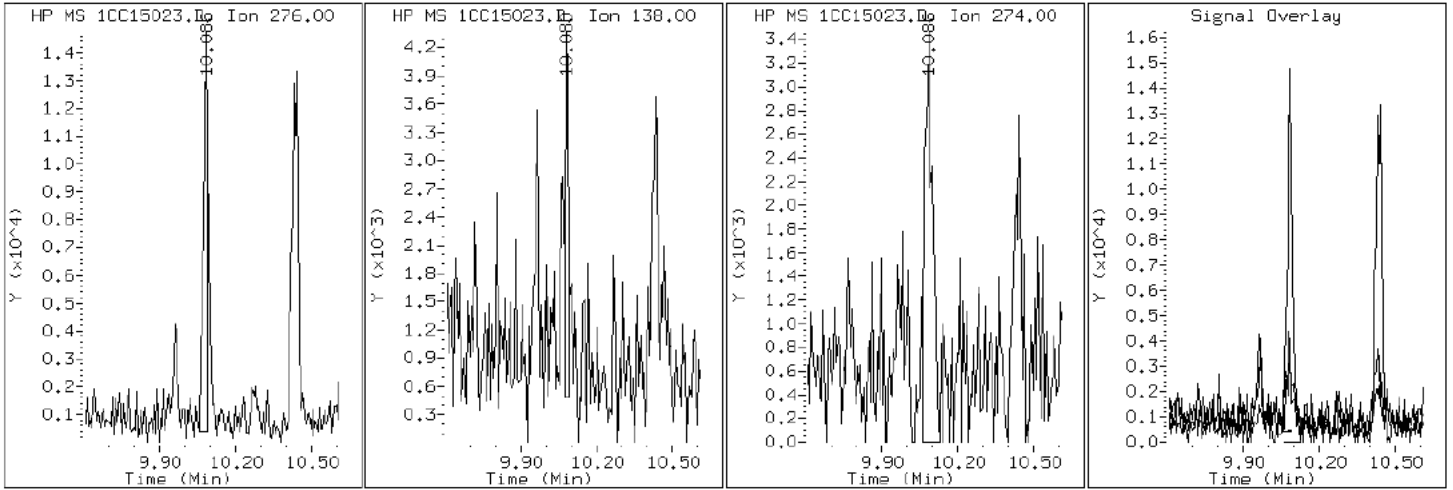
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

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



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

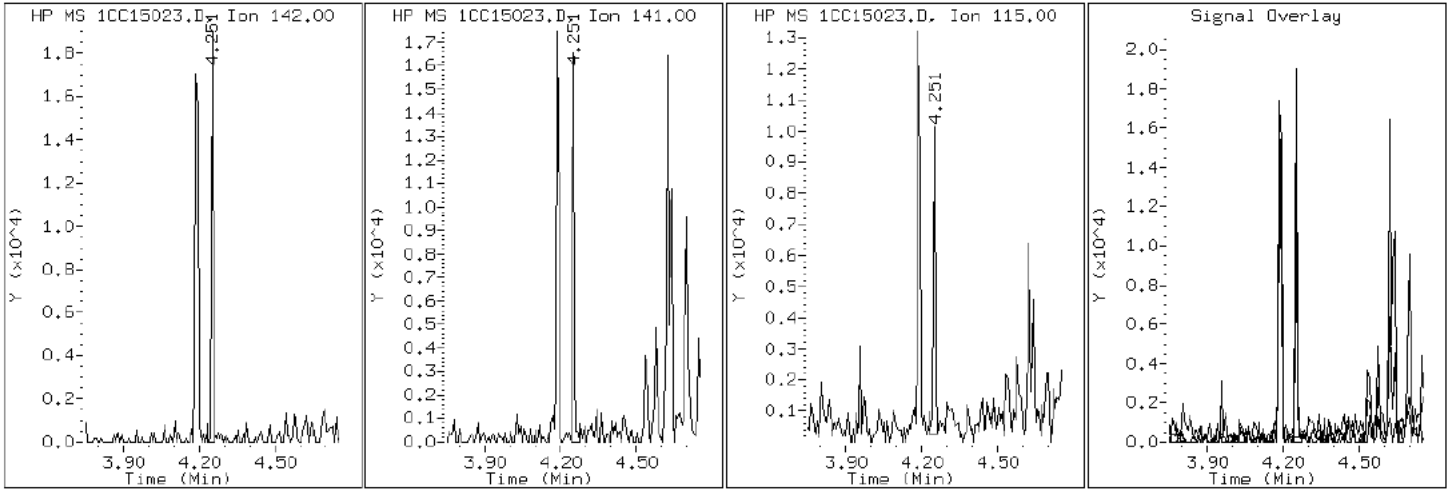
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

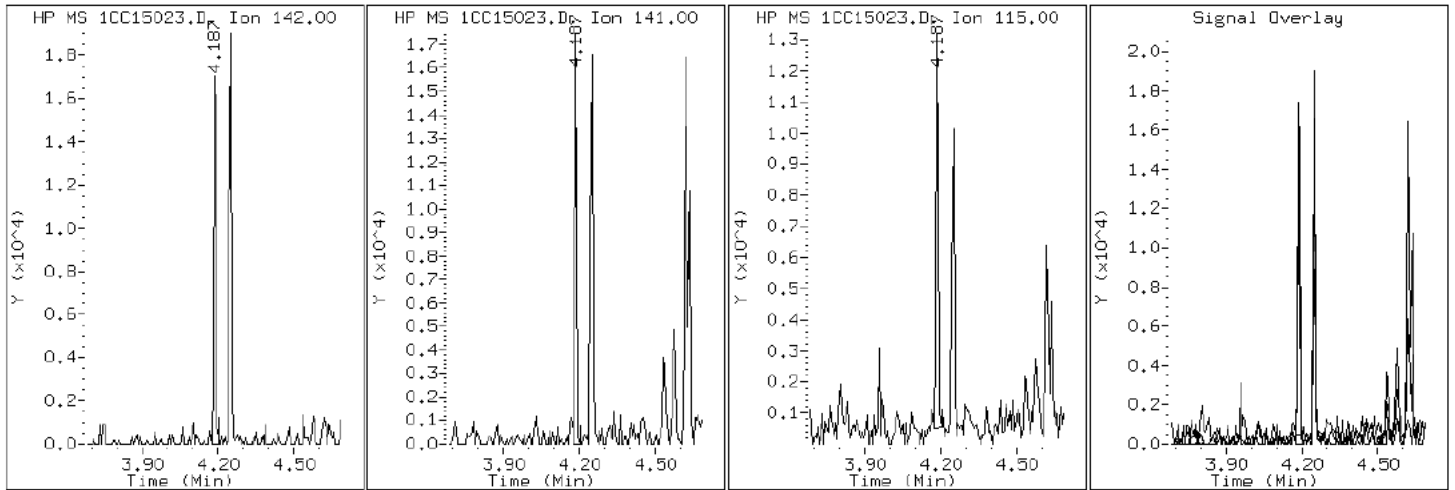
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

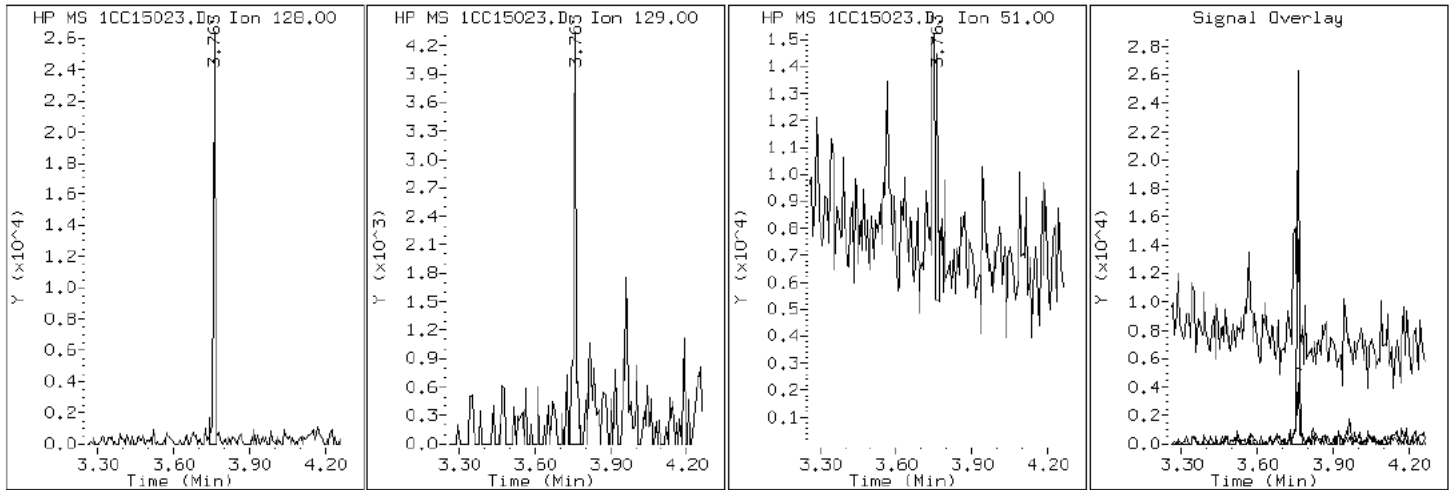
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

2 Naphthalene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

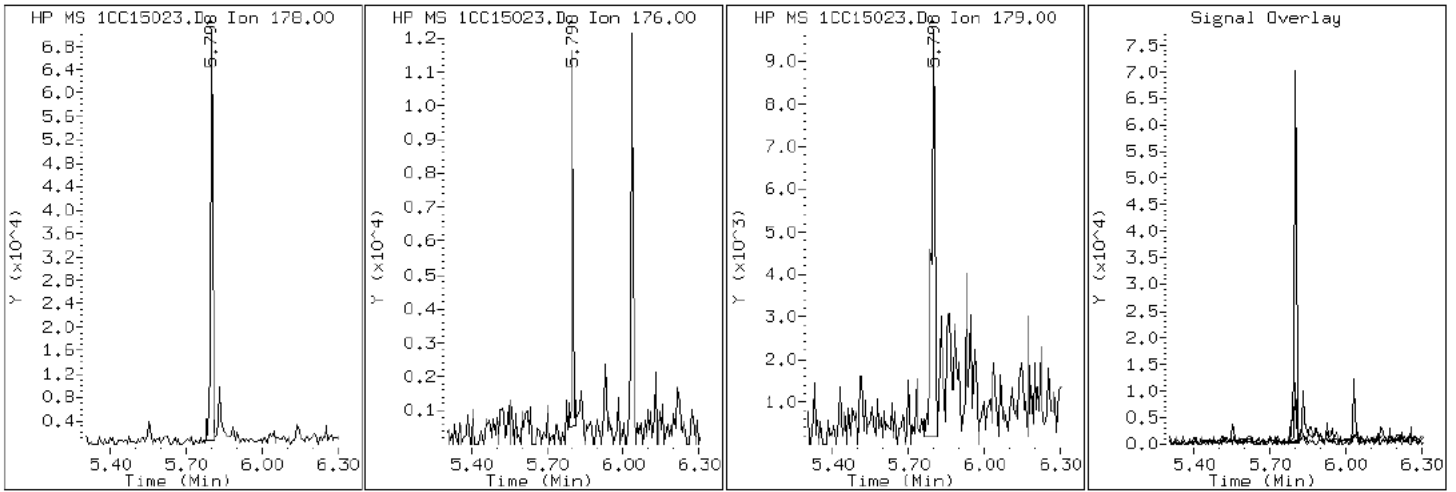
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15023.D

Date: 15-MAR-2013 22:02

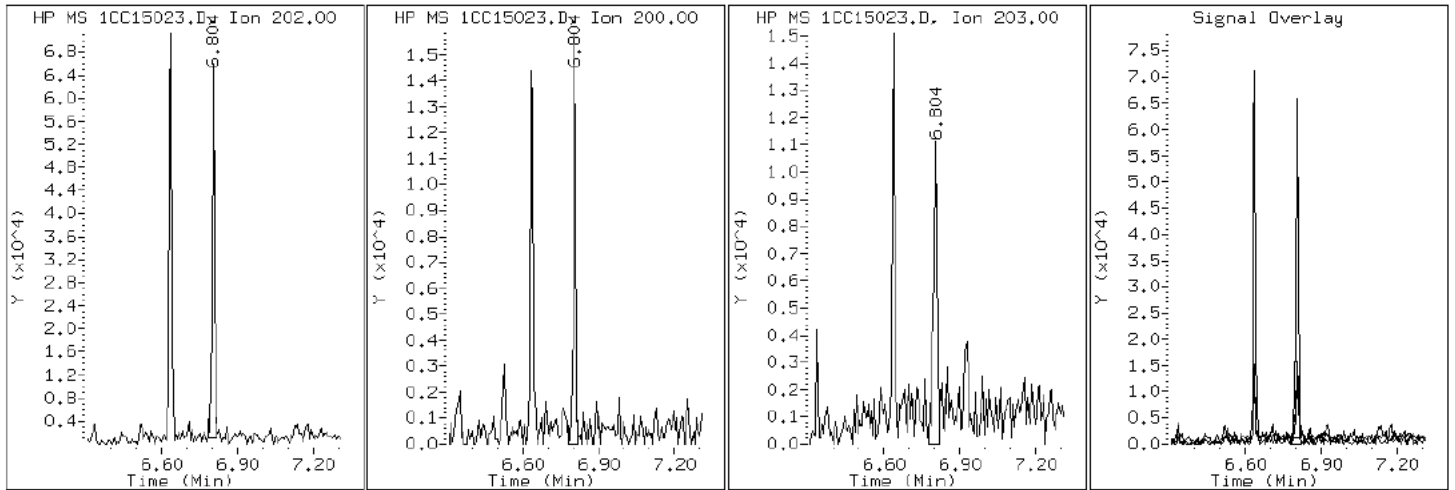
Client ID: CV0822D-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-34-a

Operator: SCC

16 Pyrene

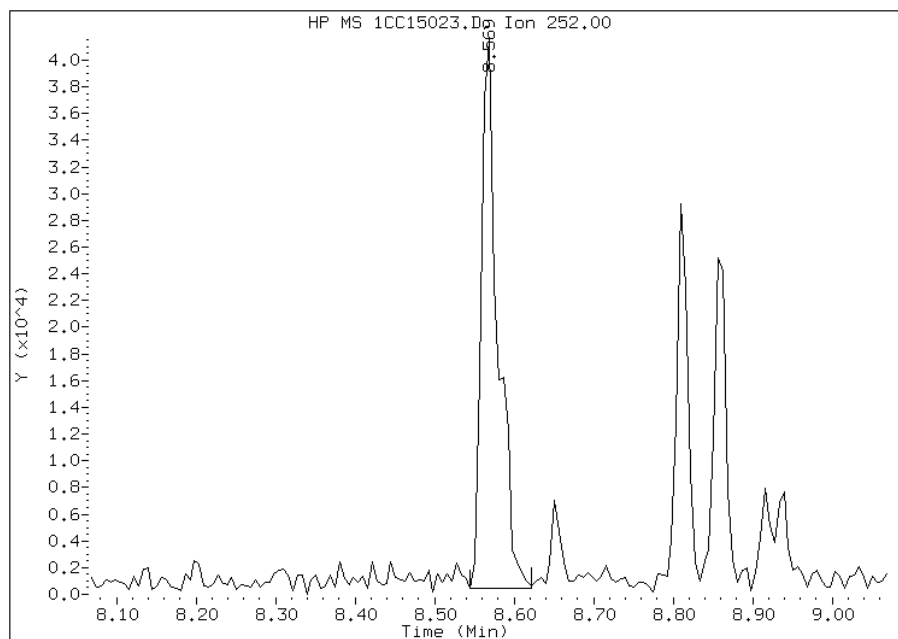


Manual Integration Report

Data File: 1CC15023.D
Inj. Date and Time: 15-MAR-2013 22:02
Instrument ID: BSMC5973.i
Client ID: CV0822D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

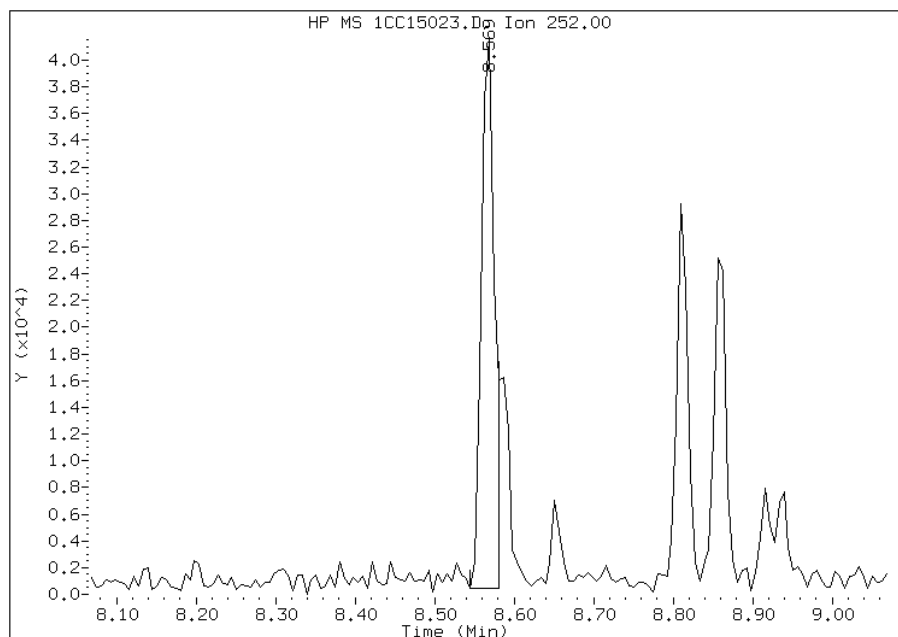
Processing Integration Results

RT: 8.57
Response: 59390
Amount: 1
Conc: 118



Manual Integration Results

RT: 8.57
Response: 47286
Amount: 1
Conc: 94



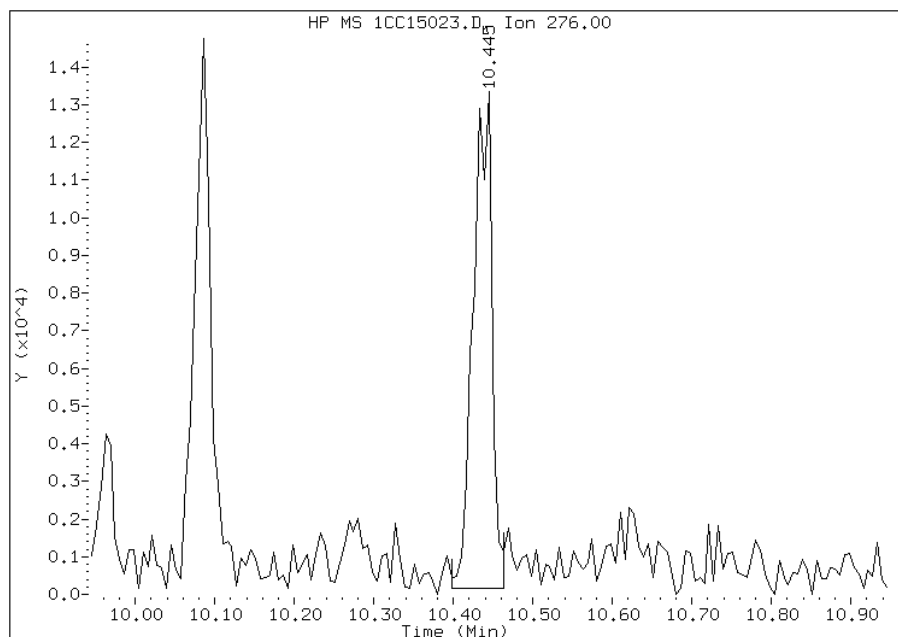
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15023.D
Inj. Date and Time: 15-MAR-2013 22:02
Instrument ID: BSMC5973.i
Client ID: CV0822D-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

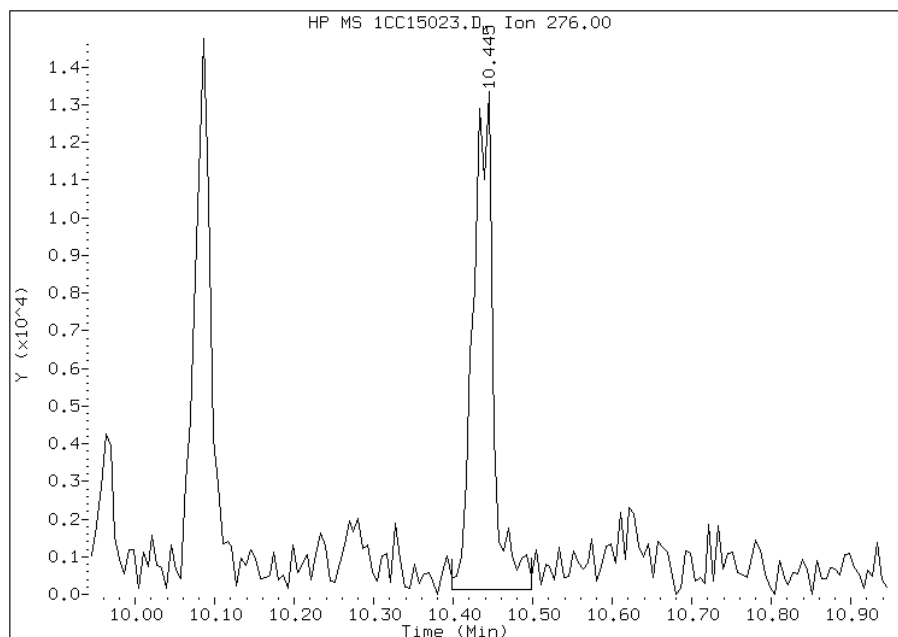
Processing Integration Results

RT: 10.45
Response: 21670
Amount: 0
Conc: 45



Manual Integration Results

RT: 10.45
Response: 23577
Amount: 1
Conc: 49



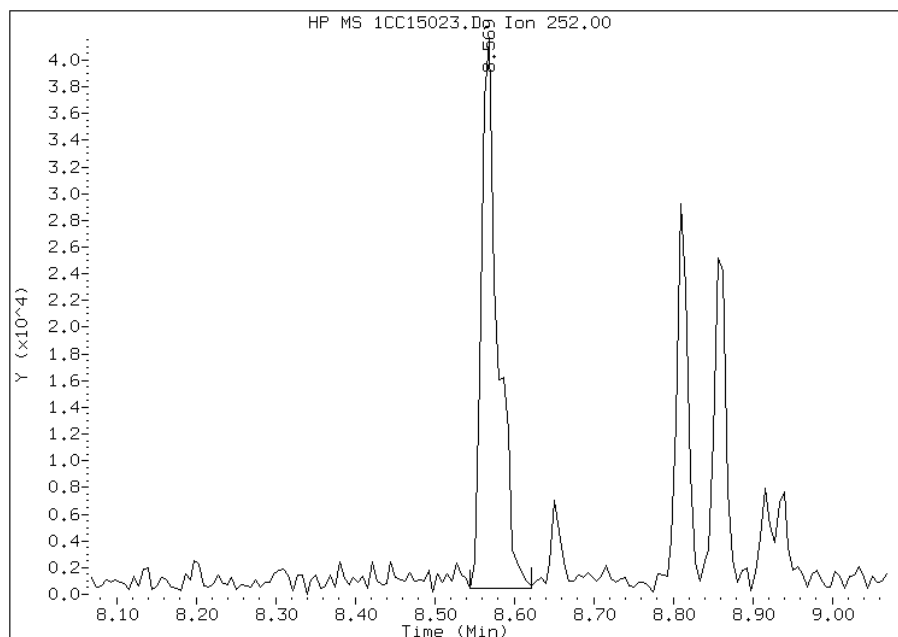
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15023.D
Inj. Date and Time: 15-MAR-2013 22:02
Instrument ID: BSMC5973.i
Client ID: CV0822D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

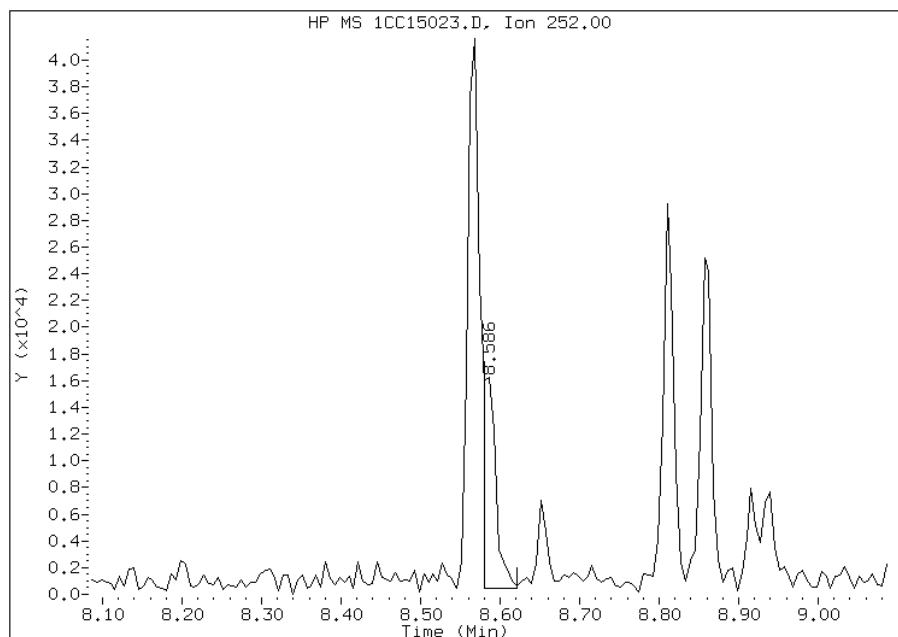
Processing Integration Results

RT: 8.57
Response: 59306
Amount: 1
Conc: 115



Manual Integration Results

RT: 8.59
Response: 17672
Amount: 0
Conc: 34



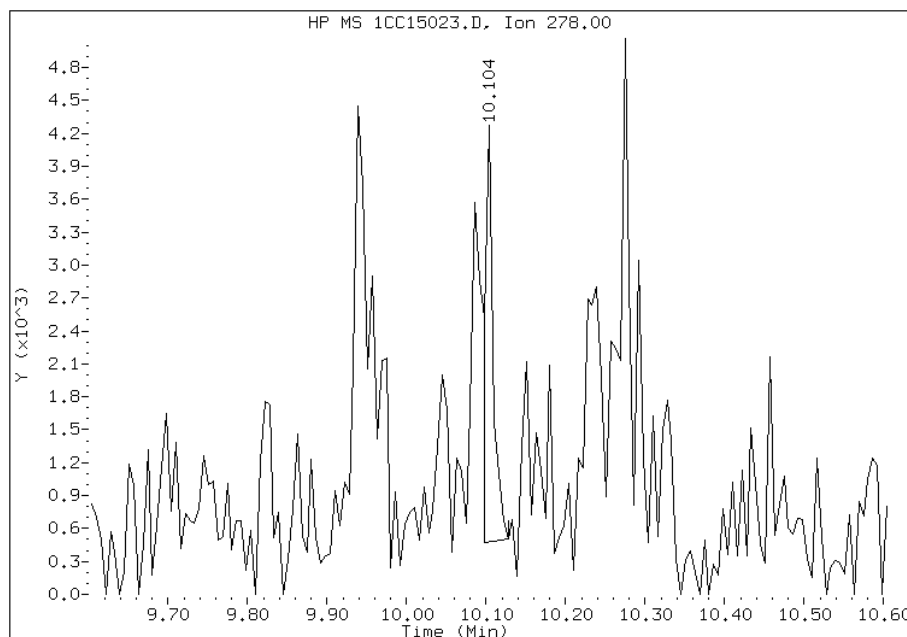
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15023.D
Inj. Date and Time: 15-MAR-2013 22:02
Instrument ID: BSMC5973.i
Client ID: CV0822D-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

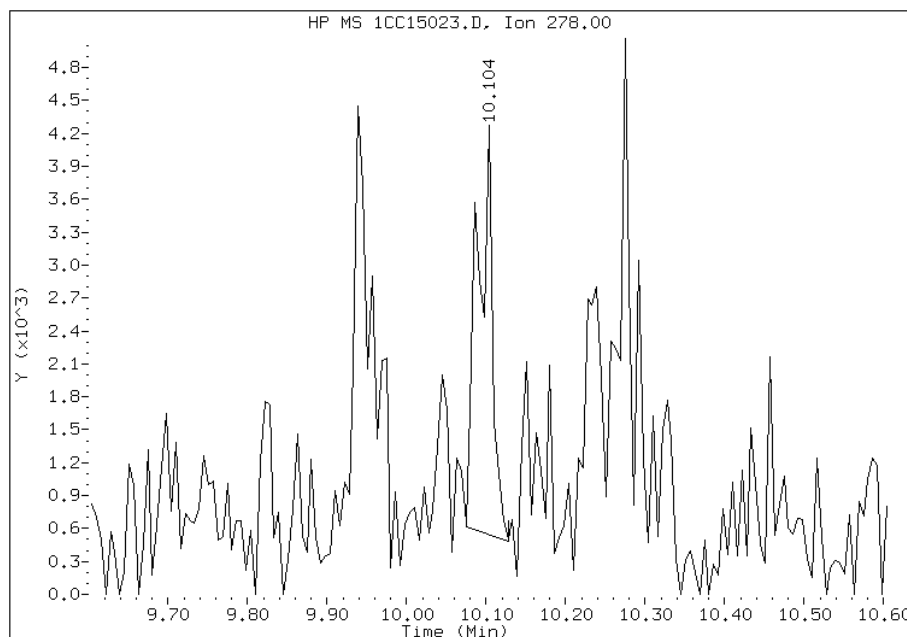
Processing Integration Results

RT: 10.10
Response: 2714
Amount: 0
Conc: 6



Manual Integration Results

RT: 10.10
Response: 4902
Amount: 0
Conc: 11



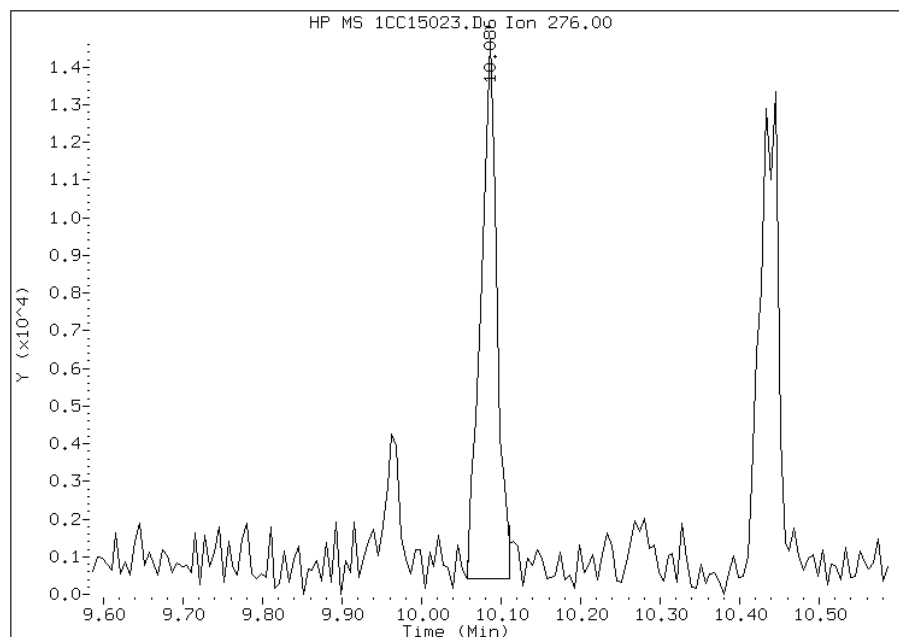
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15023.D
Inj. Date and Time: 15-MAR-2013 22:02
Instrument ID: BSMC5973.i
Client ID: CV0822D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

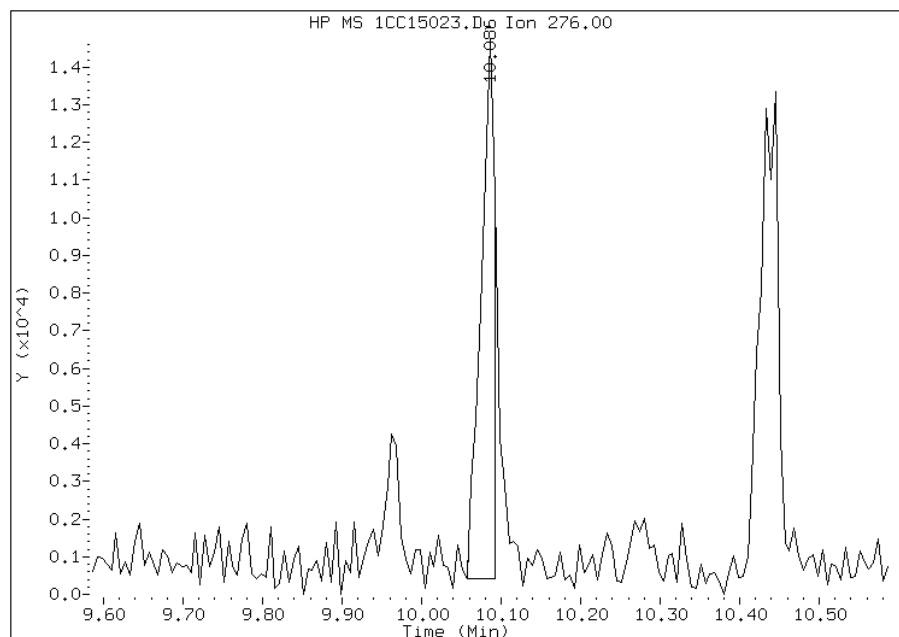
Processing Integration Results

RT: 10.09
Response: 19864
Amount: 0
Conc: 43



Manual Integration Results

RT: 10.09
Response: 17338
Amount: 0
Conc: 38



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822E-CS Lab Sample ID: 680-88118-35
 Matrix: Solid Lab File ID: 1CC15024.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:00
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.36(g) Date Analyzed: 03/15/2013 22:21
 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.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	180	J	200	25
120-12-7	Anthracene	110		41	21
56-55-3	Benzo[a]anthracene	650		39	19
50-32-8	Benzo[a]pyrene	1100		51	26
205-99-2	Benzo[b]fluoranthene	2000		60	30
191-24-2	Benzo[g,h,i]perylene	720		98	22
207-08-9	Benzo[k]fluoranthene	720		39	18
218-01-9	Chrysene	980		44	22
53-70-3	Dibenz(a,h)anthracene	220		98	20
206-44-0	Fluoranthene	680		98	20
86-73-7	Fluorene	41	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	700		98	35
90-12-0	1-Methylnaphthalene	220		200	22
91-57-6	2-Methylnaphthalene	220		200	35
91-20-3	Naphthalene	240		200	22
85-01-8	Phenanthrene	380		39	19
129-00-0	Pyrene	760		98	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15024.D
 Lab Smp Id: 680-88118-A-35-A Client Smp ID: CV0822E-CS
 Inj Date : 15-MAR-2013 22:21
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-35-a
 Misc Info : 680-88118-A-35-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 24
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.360	Weight Extracted
M	20.401	% 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		3.745	3.751	(1.000)	1018053	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	791209	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1557036	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	46531	1.97932	647.5532	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1792908	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1702844	40.0000		
2 Naphthalene	128		3.763	3.763	(1.005)	19252	0.72639	237.6445	
3 2-Methylnaphthalene	142		4.186	4.186	(1.118)	12033	0.68063	222.6750	
4 1-Methylnaphthalene	142		4.251	4.251	(1.135)	11053	0.68646	224.5812	
5 Acenaphthylene	152		4.751	4.751	(0.983)	17474	0.54779	179.2149	
9 Fluorene	166		5.174	5.174	(1.071)	3143	0.12534	41.0076(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	51816	1.15089	376.5242	
12 Anthracene	178		5.833	5.839	(1.008)	15432	0.35047	114.6608	
13 Carbazole	167		5.939	5.945	(1.026)	6505	0.16619	54.3716	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.639	6.639 (1.147)		103146	2.09199	684.4148
16 Pyrene	202	6.804	6.810 (0.880)		112599	2.33696	764.5589
17 Benzo(a)anthracene	228	7.721	7.727 (0.999)		102844	1.98745	650.2123
19 Chrysene	228	7.745	7.751 (1.002)		155044	2.99396	979.5015
20 Benzo(b)fluoranthene	252	8.568	8.580 (0.961)		274636	6.17137	2019.0222(M)
21 Benzo(k)fluoranthene	252	8.580	8.604 (0.962)		100858	2.20929	722.7903(QM)
22 Benzo(a)pyrene	252	8.862	8.874 (0.994)		144428	3.34125	1093.1236
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109 (1.131)		87445	2.15047	703.5484(M)
25 Dibenzo(a,h)anthracene	278	10.104	10.127 (1.133)		26871	0.67559	221.0250
26 Benzo(g,h,i)perylene	276	10.439	10.462 (1.171)		93045	2.18739	715.6249(M)

QC Flag Legend

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

Data File: 1CC15024.D

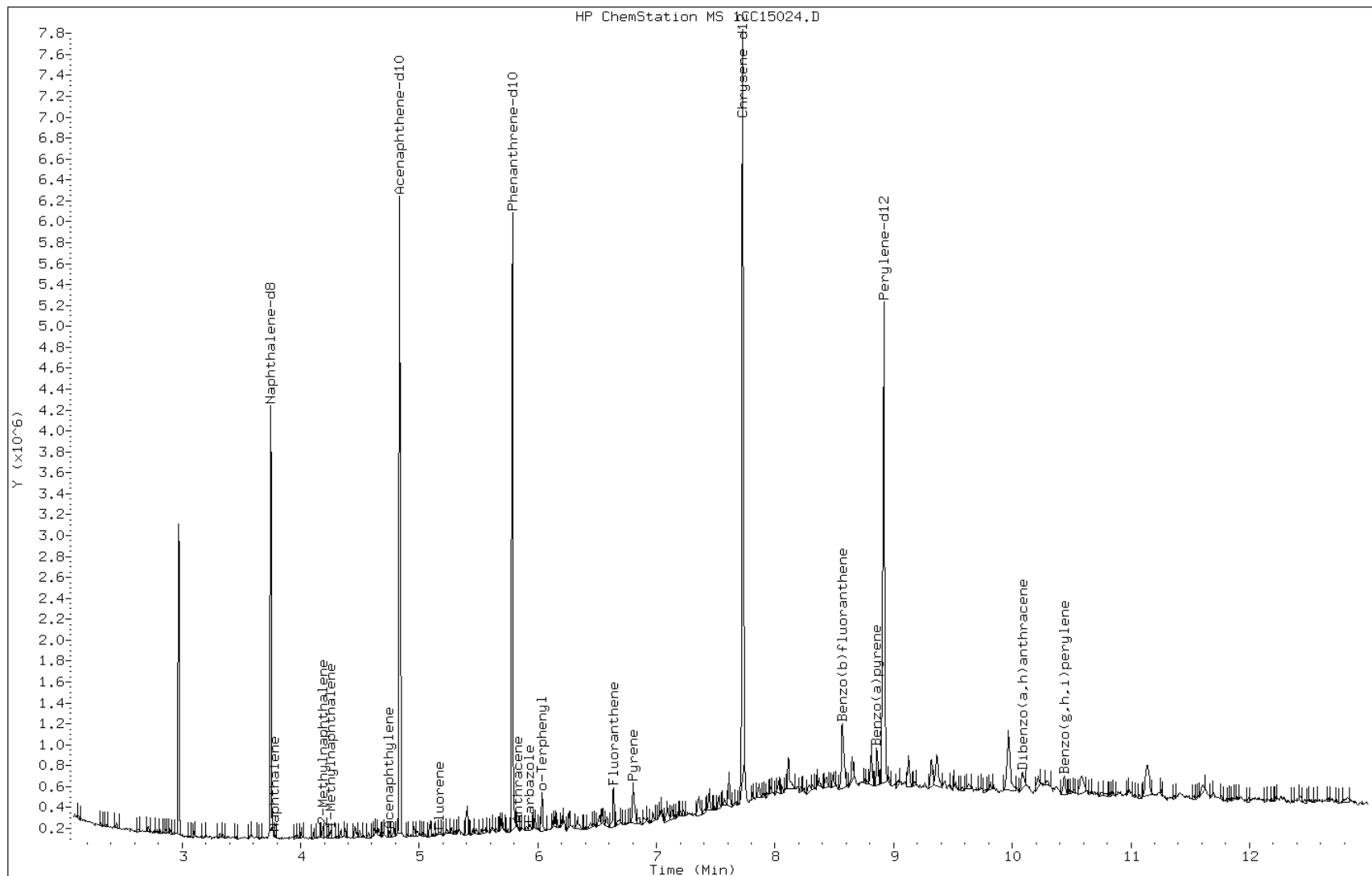
Date: 15-MAR-2013 22:21

Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

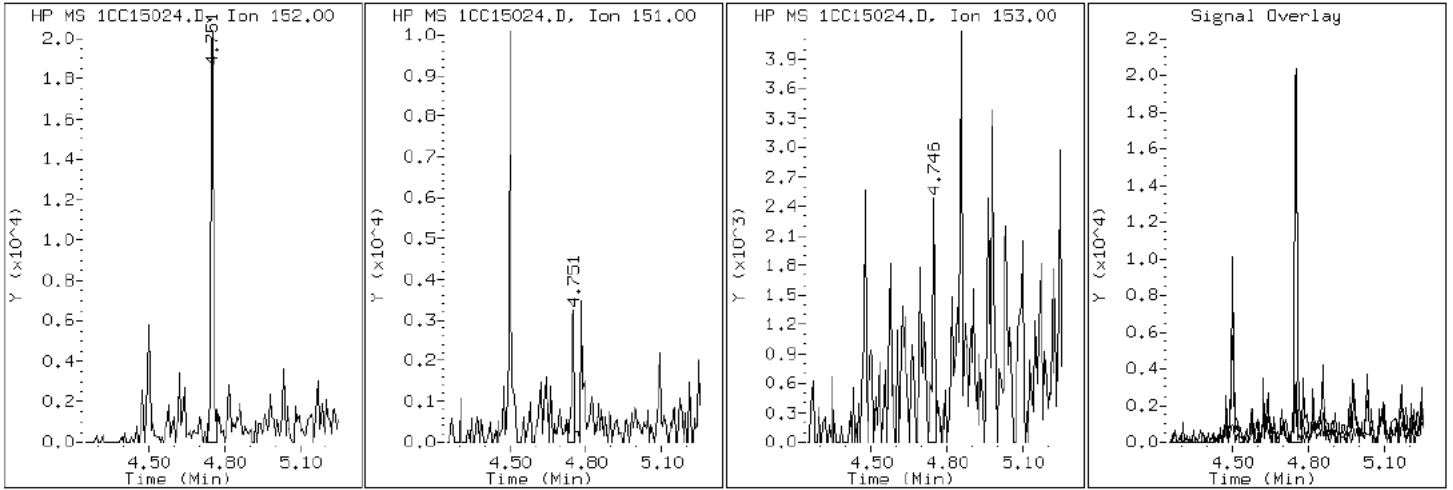
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

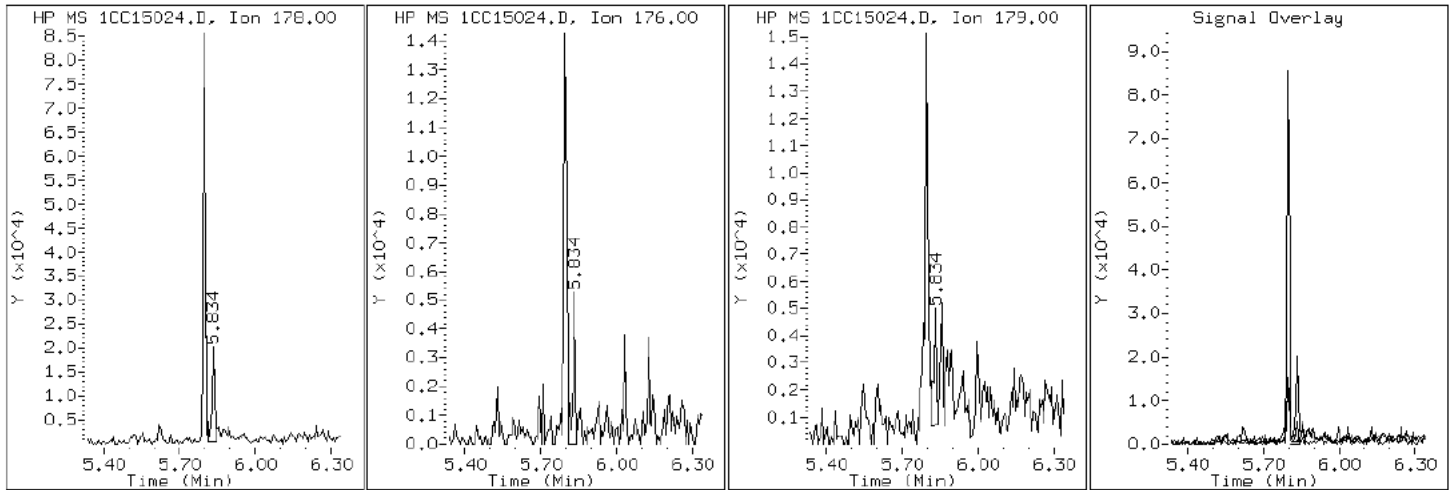
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

12 Anthracene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

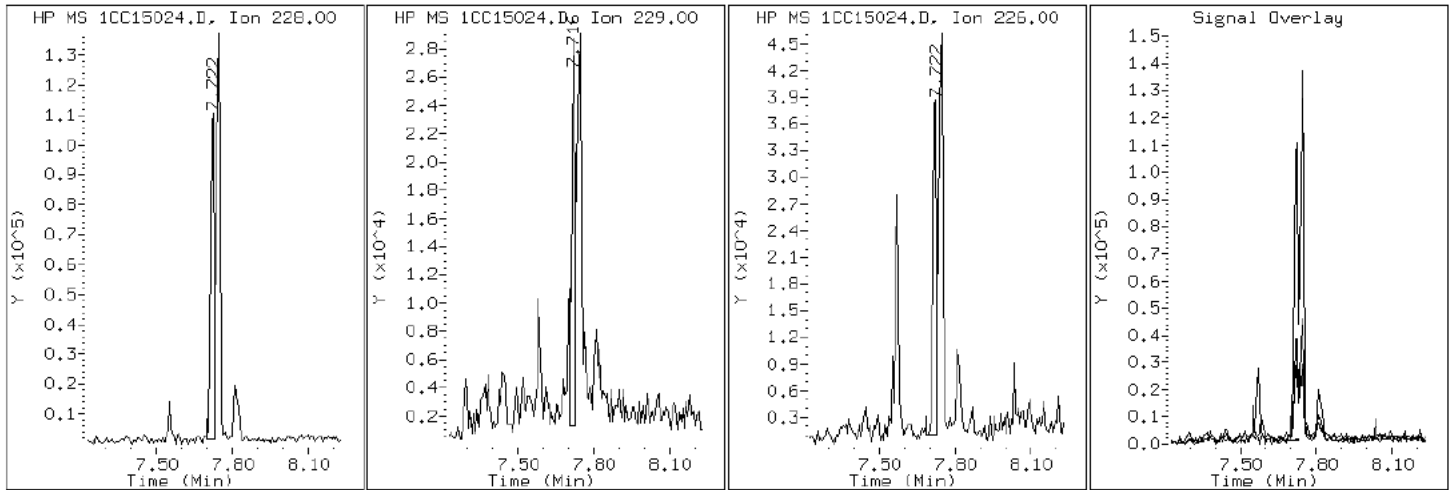
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

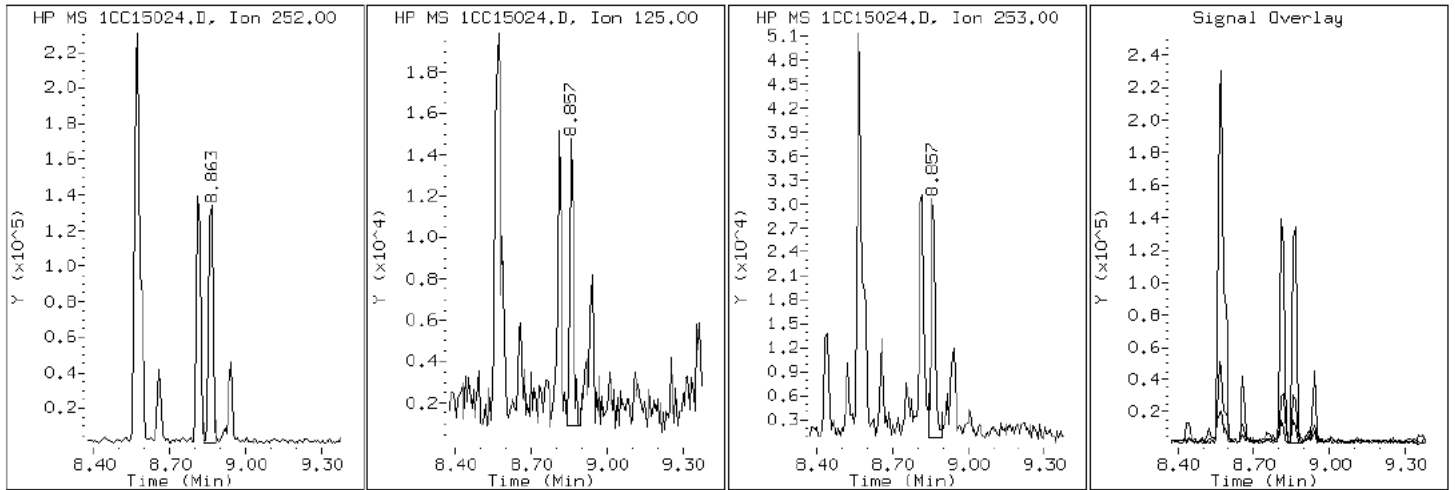
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

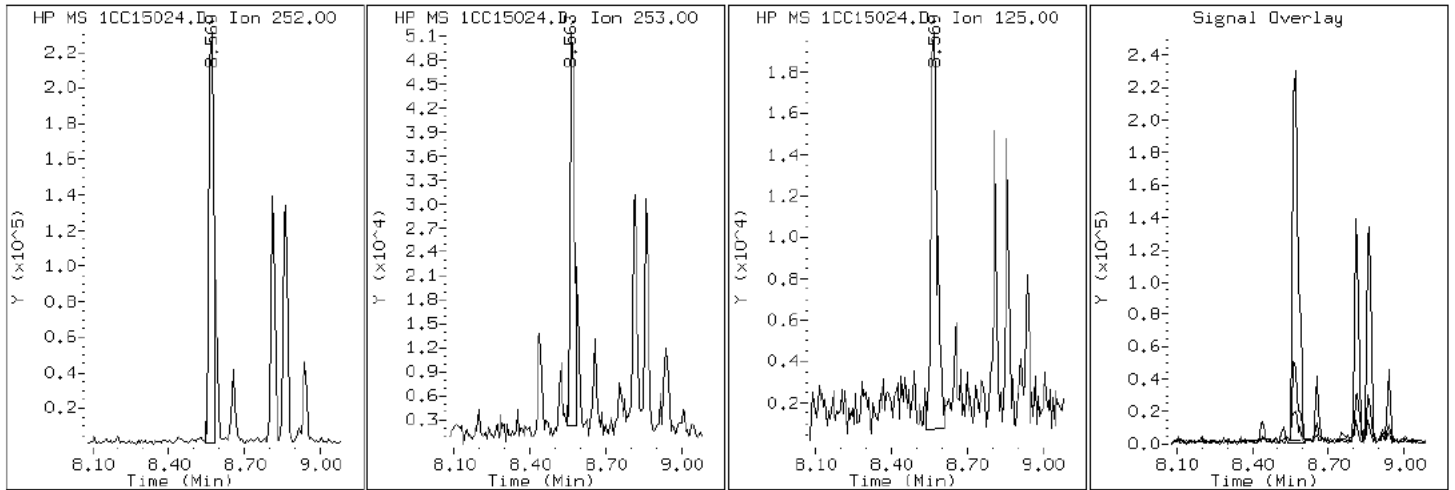
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

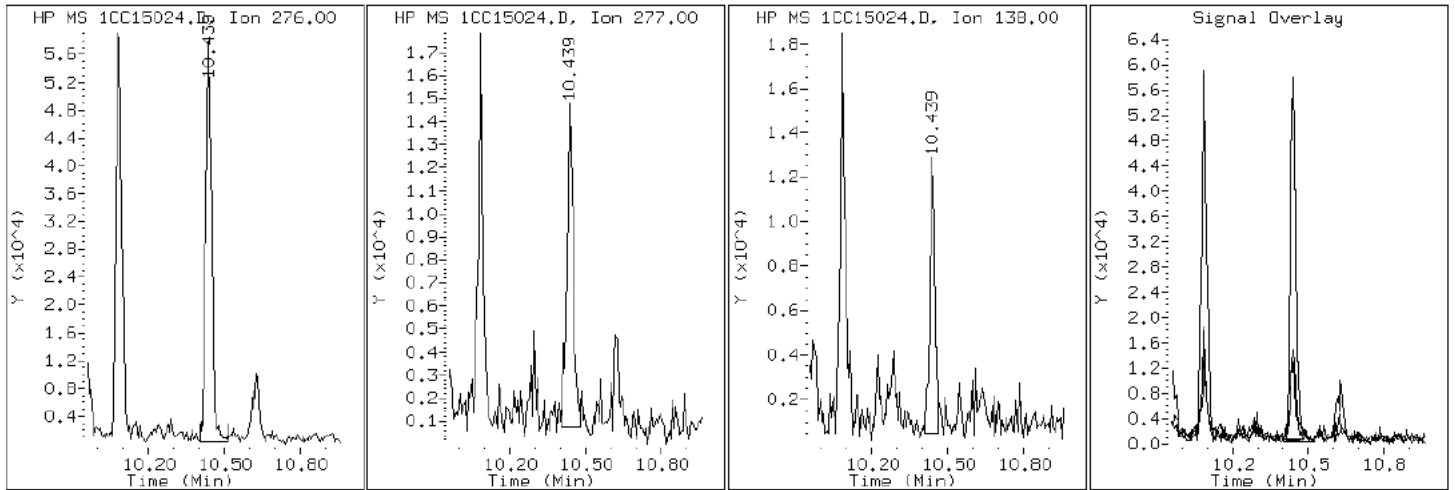
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

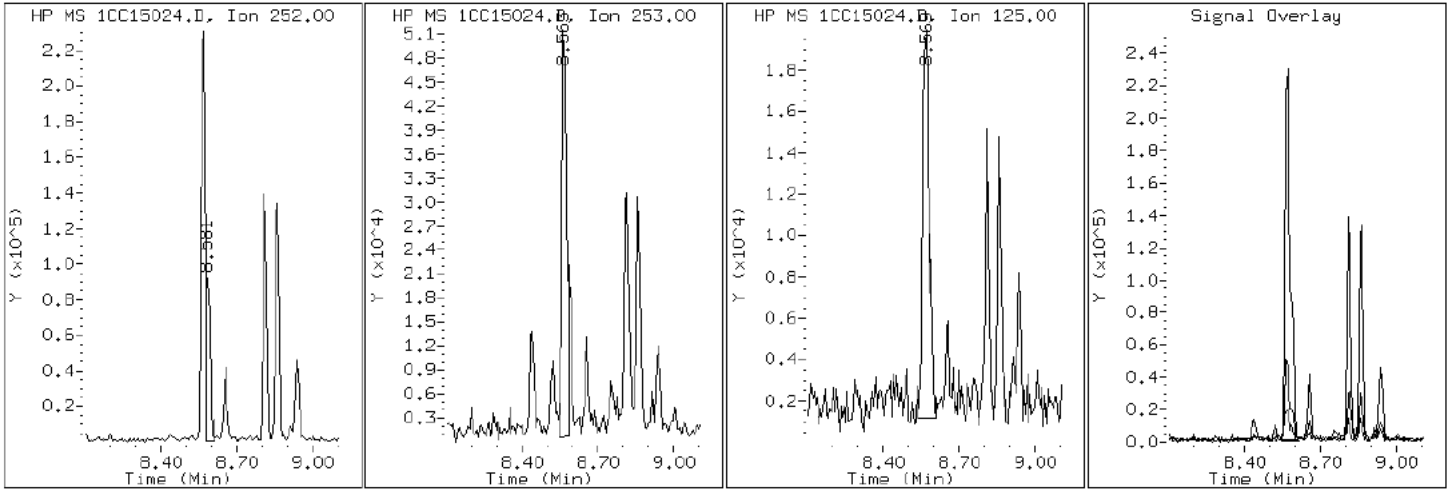
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

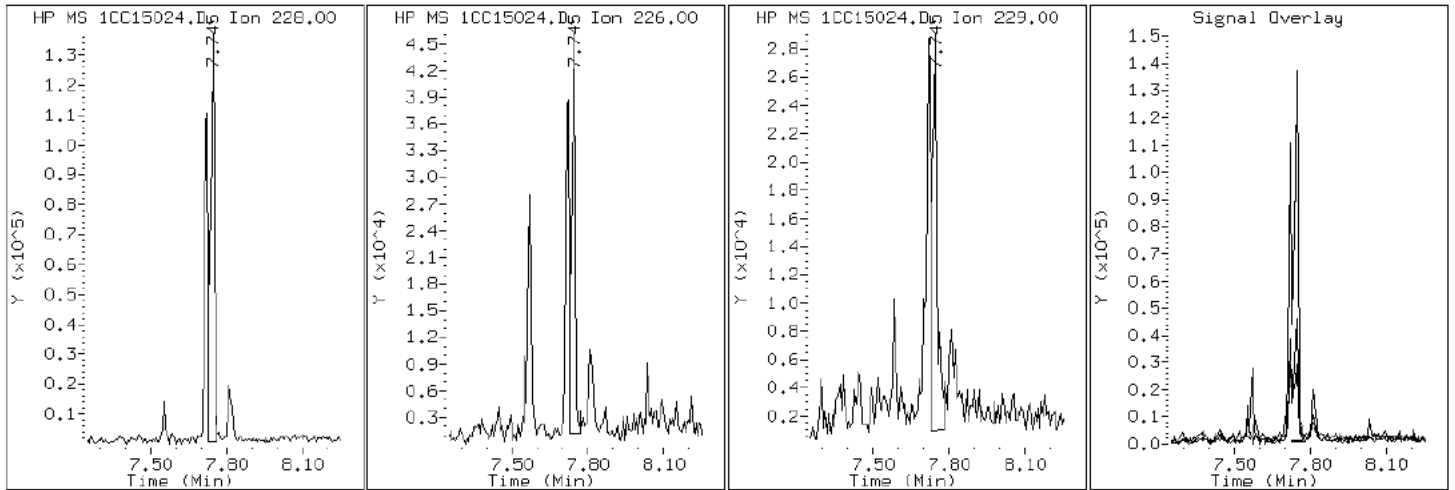
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

19 Chrysene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

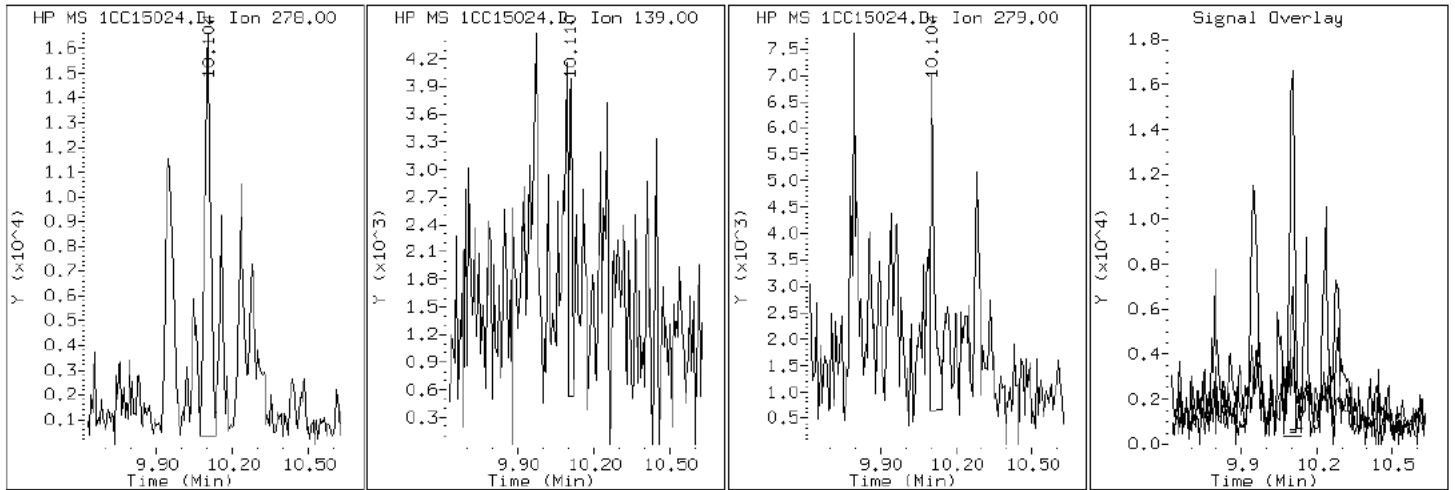
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

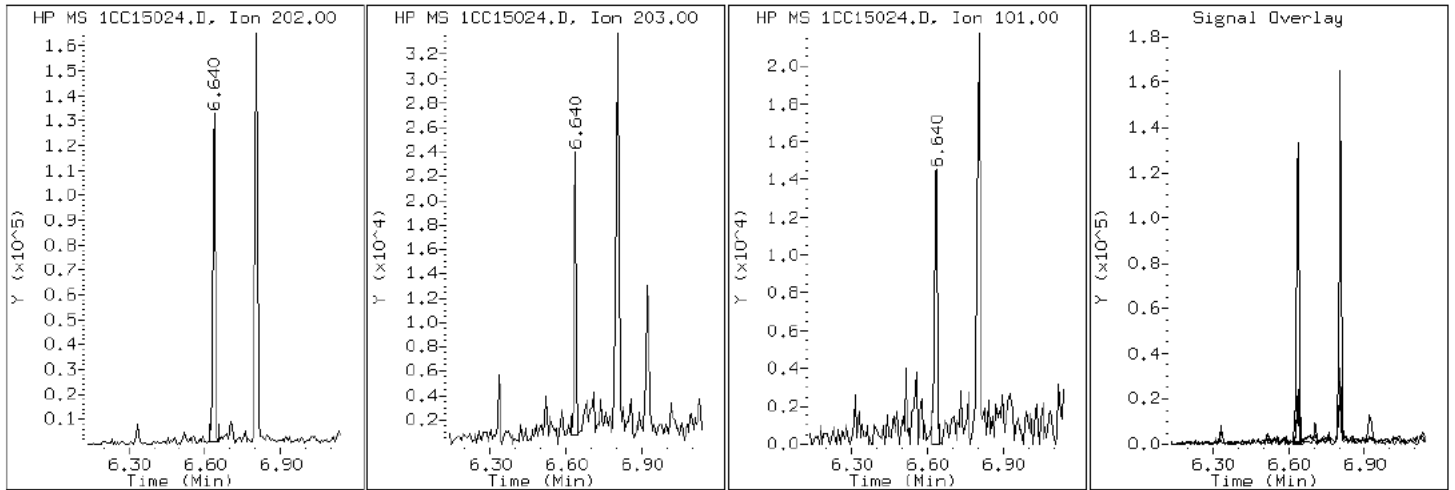
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

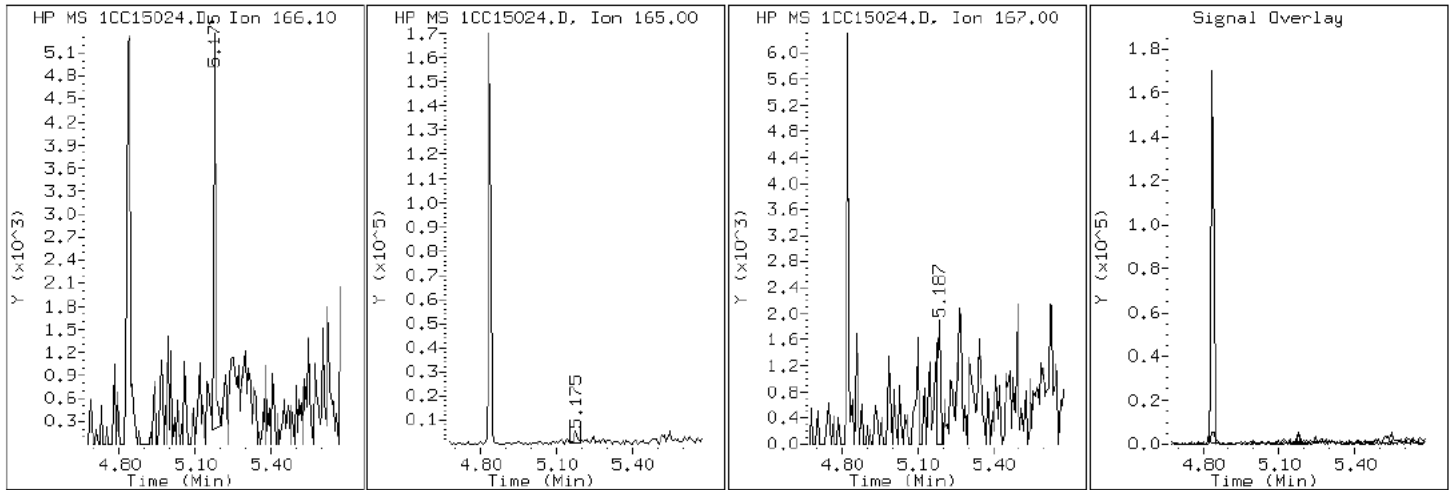
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

9 Fluorene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

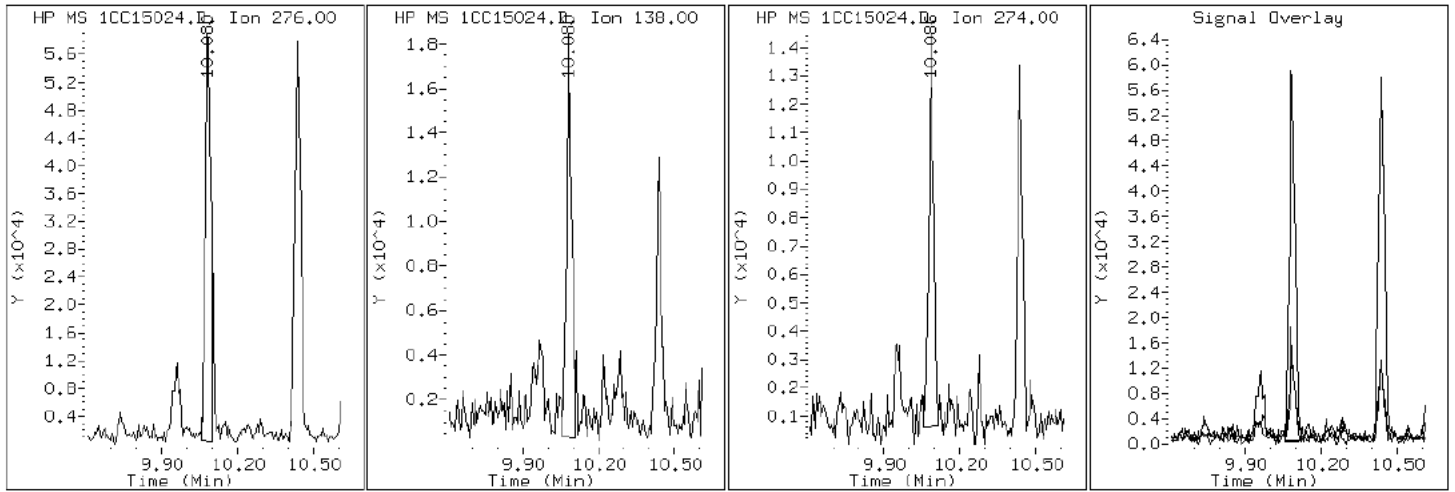
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

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



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

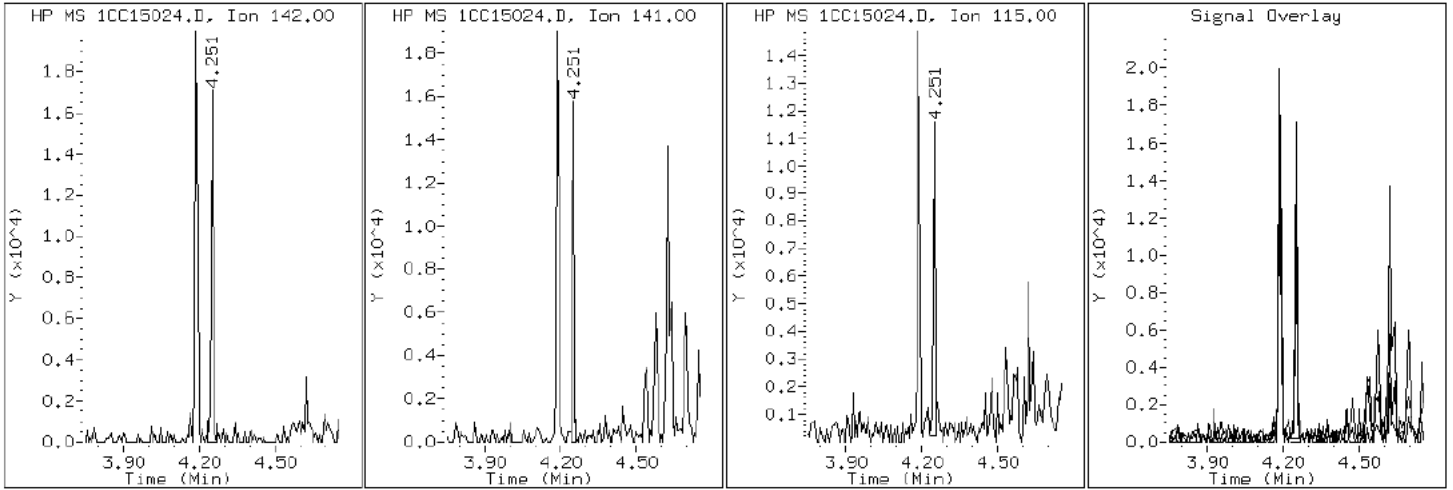
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

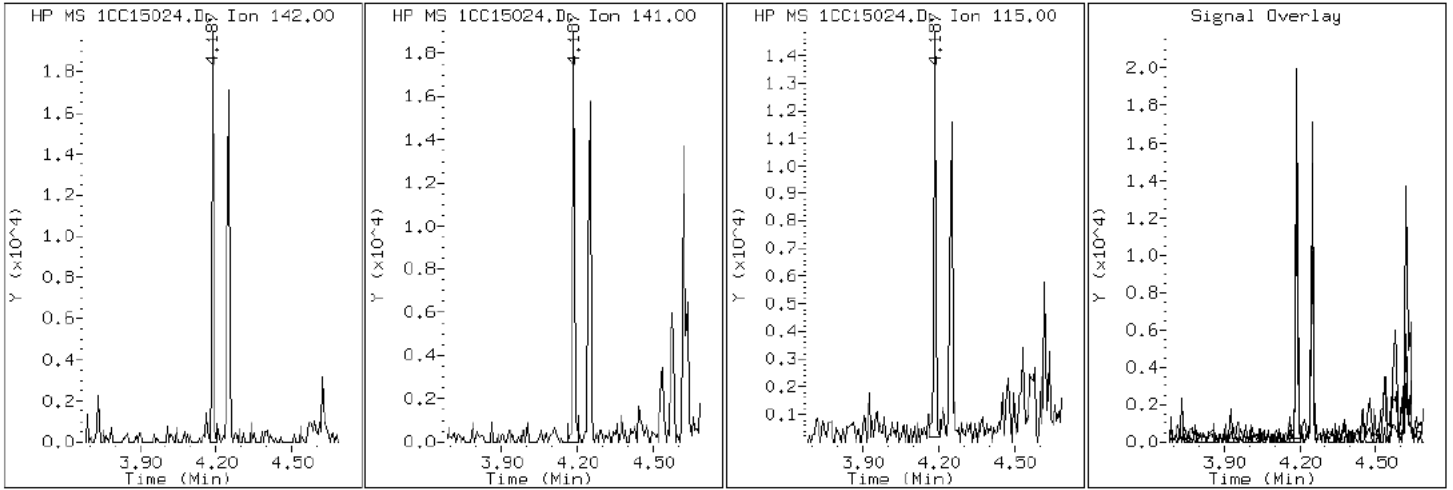
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

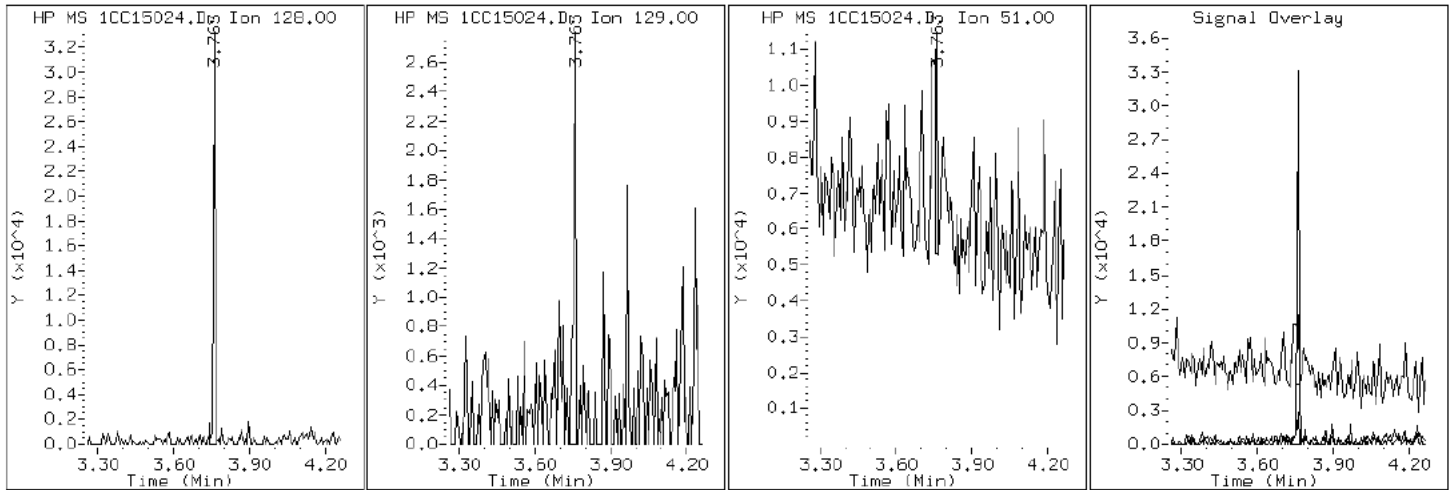
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

2 Naphthalene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

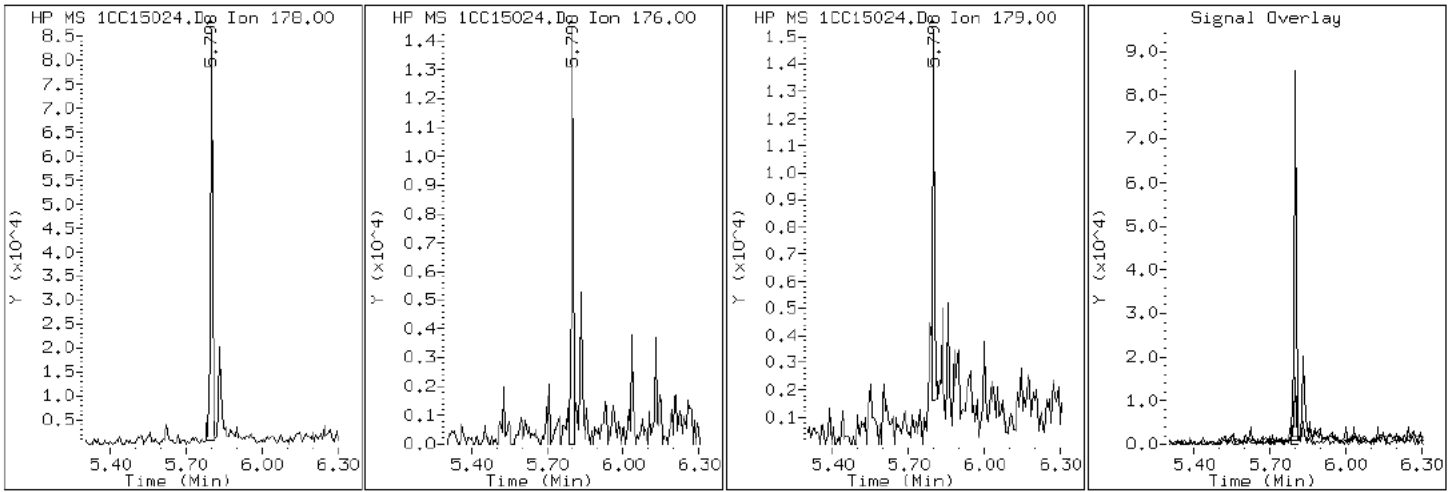
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15024.D

Date: 15-MAR-2013 22:21

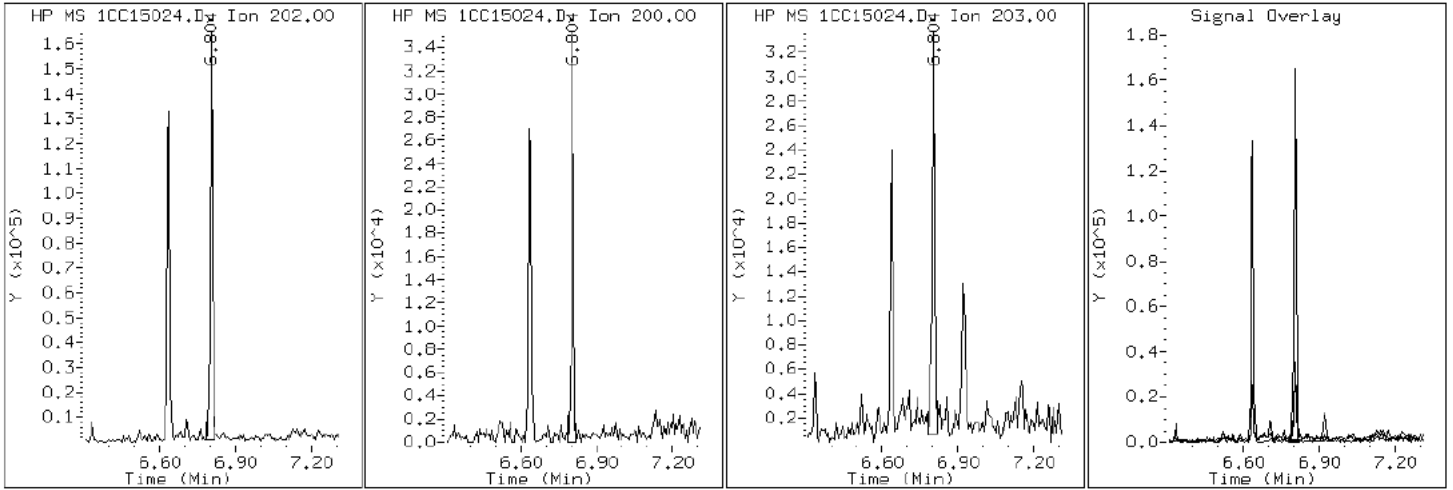
Client ID: CV0822E-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-35-a

Operator: SCC

16 Pyrene

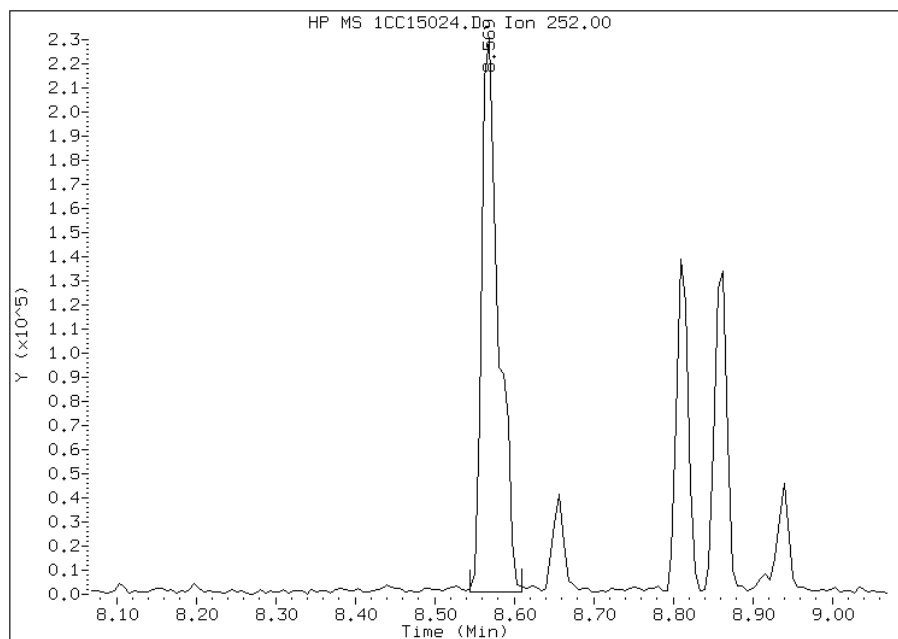


Manual Integration Report

Data File: 1CC15024.D
Inj. Date and Time: 15-MAR-2013 22:21
Instrument ID: BSMC5973.i
Client ID: CV0822E-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

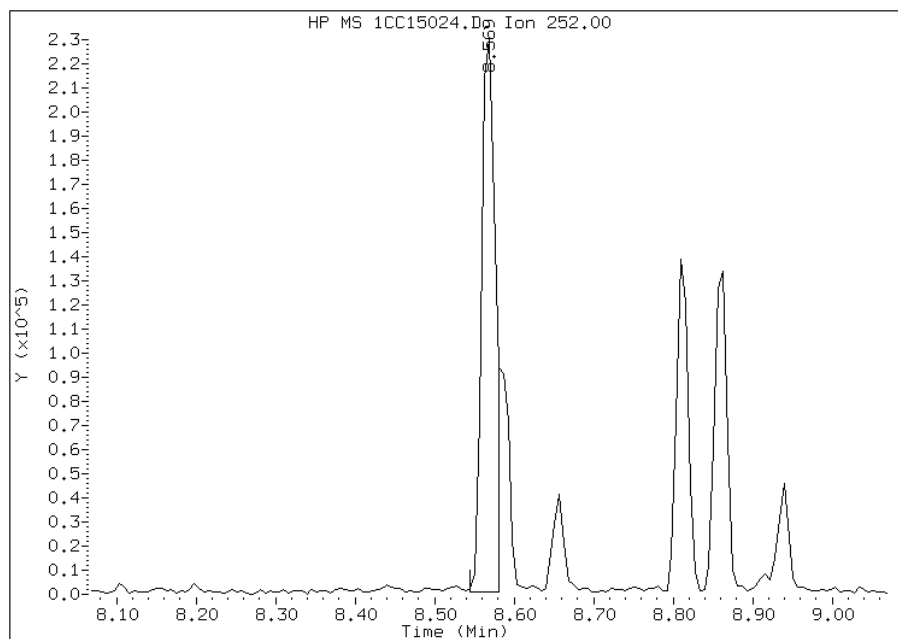
Processing Integration Results

RT: 8.57
Response: 340892
Amount: 8
Conc: 2506



Manual Integration Results

RT: 8.57
Response: 274636
Amount: 6
Conc: 2019



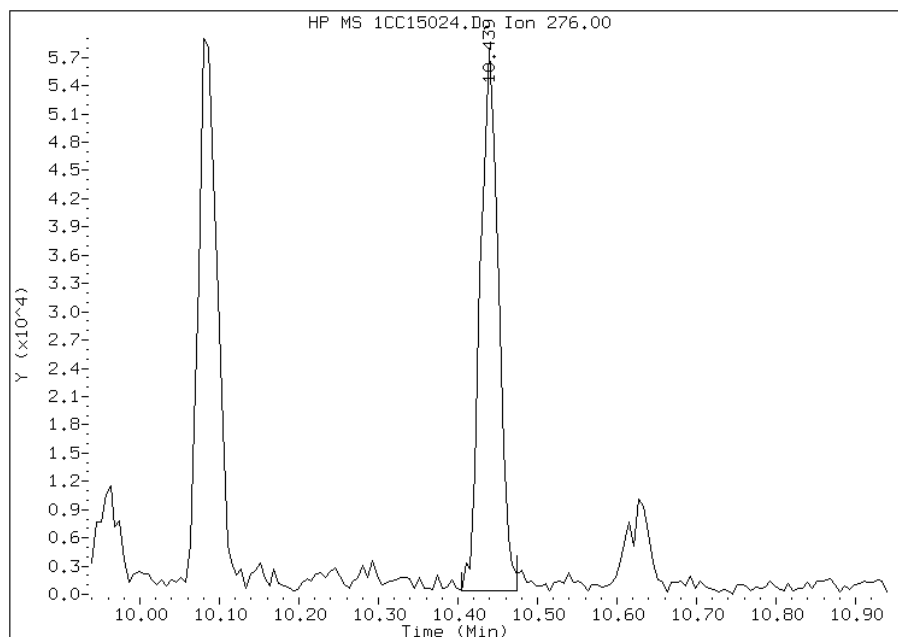
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15024.D
Inj. Date and Time: 15-MAR-2013 22:21
Instrument ID: BSMC5973.i
Client ID: CV0822E-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

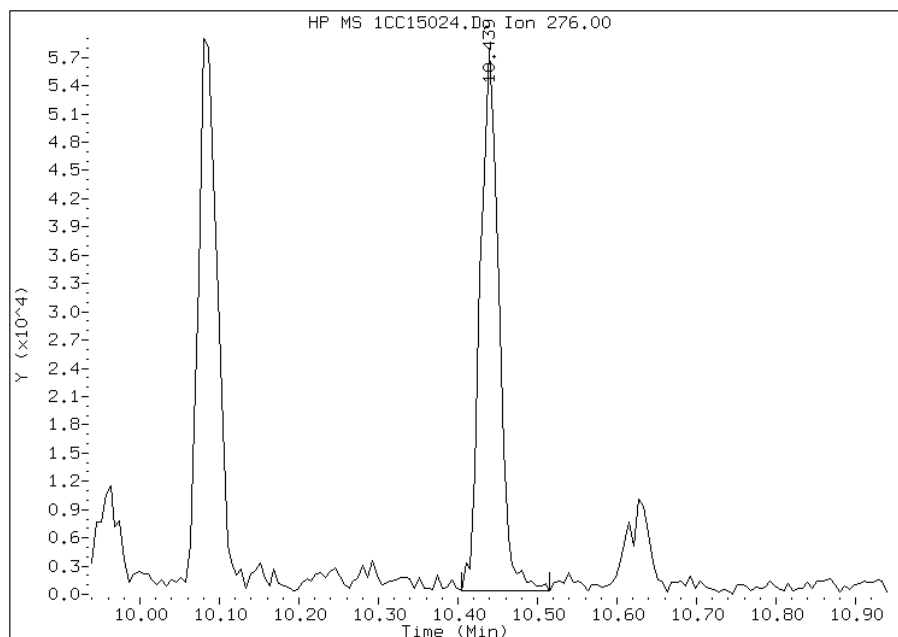
Processing Integration Results

RT: 10.44
Response: 91167
Amount: 2
Conc: 701



Manual Integration Results

RT: 10.44
Response: 93045
Amount: 2
Conc: 716



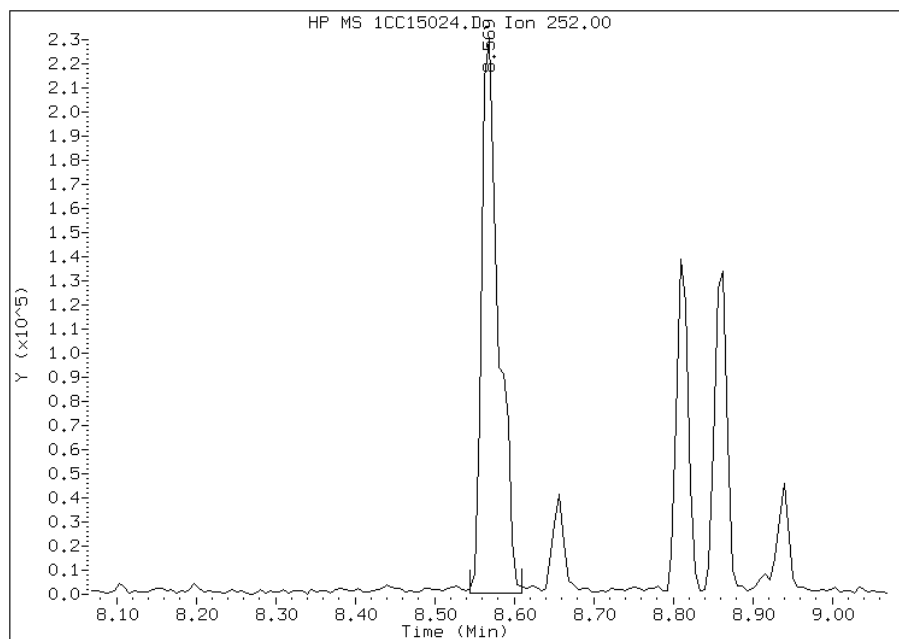
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15024.D
Inj. Date and Time: 15-MAR-2013 22:21
Instrument ID: BSMC5973.i
Client ID: CV0822E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

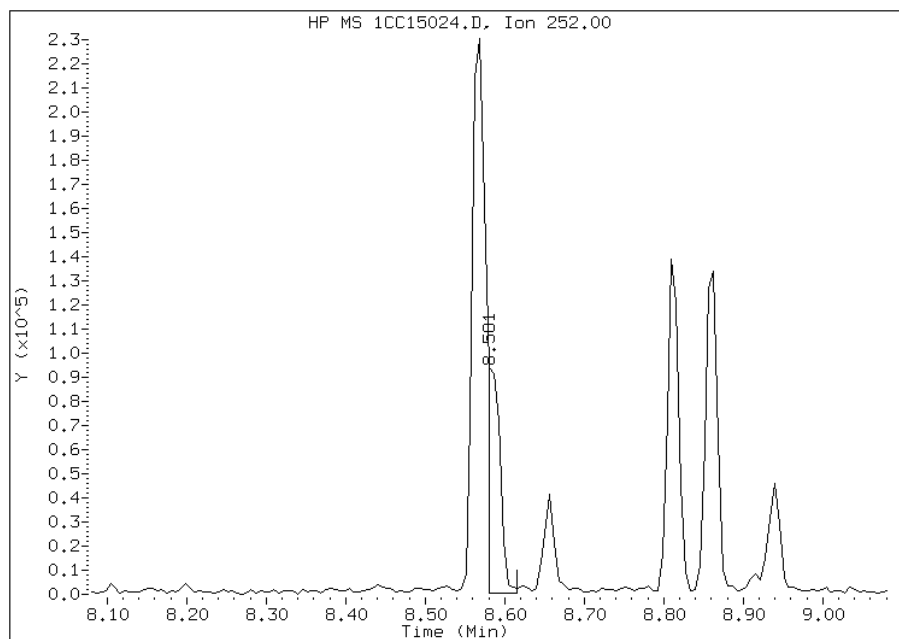
Processing Integration Results

RT: 8.57
Response: 342157
Amount: 7
Conc: 2452



Manual Integration Results

RT: 8.58
Response: 100858
Amount: 2
Conc: 723



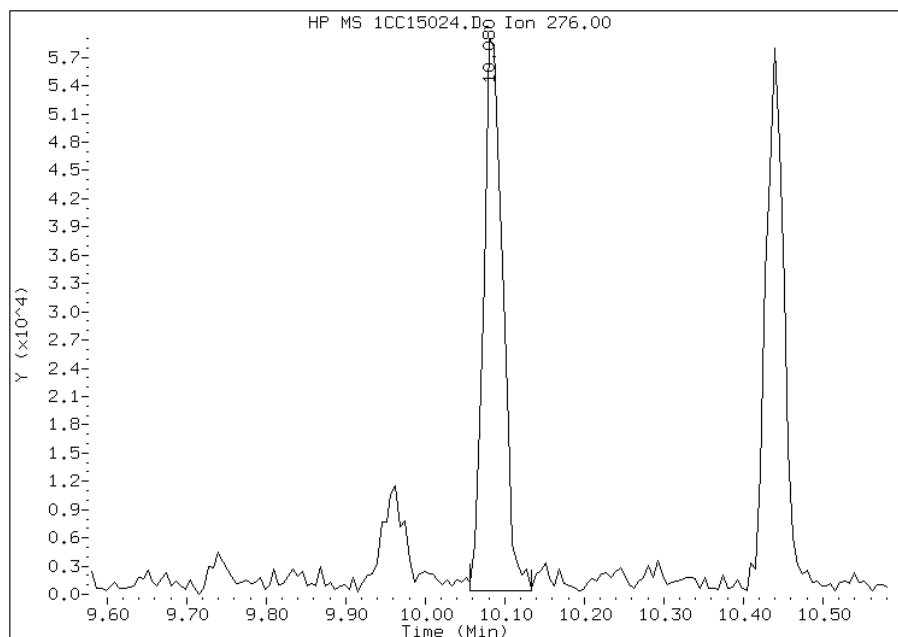
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15024.D
Inj. Date and Time: 15-MAR-2013 22:21
Instrument ID: BSMC5973.i
Client ID: CV0822E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

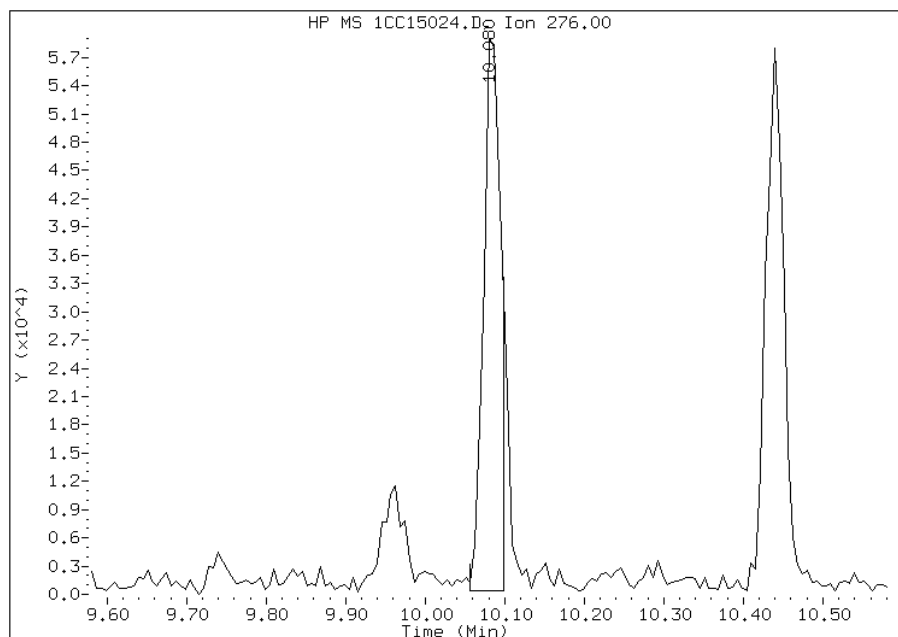
Processing Integration Results

RT: 10.08
Response: 97770
Amount: 2
Conc: 787



Manual Integration Results

RT: 10.08
Response: 87445
Amount: 2
Conc: 704



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822F-CS Lab Sample ID: 680-88118-36
 Matrix: Solid Lab File ID: 1CC15025.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:10
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.98(g) Date Analyzed: 03/15/2013 22:39
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	J	500	99
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	180		42	21
56-55-3	Benzo[a]anthracene	570		40	19
50-32-8	Benzo[a]pyrene	600		51	26
205-99-2	Benzo[b]fluoranthene	970		60	30
191-24-2	Benzo[g,h,i]perylene	430		99	22
207-08-9	Benzo[k]fluoranthene	340		40	18
218-01-9	Chrysene	620		45	22
53-70-3	Dibenz(a,h)anthracene	130		99	20
206-44-0	Fluoranthene	1200		99	20
86-73-7	Fluorene	95	J	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	360		99	35
90-12-0	1-Methylnaphthalene	120	J	200	22
91-57-6	2-Methylnaphthalene	200		200	35
91-20-3	Naphthalene	200		200	22
85-01-8	Phenanthrene	860		40	19
129-00-0	Pyrene	1100		99	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\1C031513.b\1CC15025.D
 Lab Smp Id: 680-88118-A-36-A Client Smp ID: CV0822F-CS
 Inj Date : 15-MAR-2013 22:39
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-36-a
 Misc Info : 680-88118-A-36-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 25
 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	14.980	Weight Extracted
M	19.106	% 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		3.751	3.751	(1.000)	1275818	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	967709	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1738375	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	43885	1.67203	551.9184	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1896846	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1763598	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	20110	0.60546	199.8555	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	13657	0.61642	203.4722	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	7422	0.36782	121.4133	
7 Acenaphthene	154		4.851	4.857	(1.004)	8926	0.36808	121.4997	
9 Fluorene	166		5.174	5.174	(1.071)	8855	0.28873	95.3072	
11 Phenanthrene	178		5.798	5.804	(1.002)	130355	2.59330	856.0171	
12 Anthracene	178		5.833	5.839	(1.008)	27526	0.55993	184.8254	
13 Carbazole	167		5.939	5.945	(1.026)	20240	0.46316	152.8838	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.639	(1.146)	197129	3.58107	1182.0701
16 Pyrene	202	6.804	6.810	(0.880)	162304	3.18399	1050.9985
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	93726	1.71200	565.1097
19 Chrysene	228	7.745	7.751	(1.002)	102208	1.86553	615.7884
20 Benzo(b)fluoranthene	252	8.562	8.580	(0.960)	135971	2.95016	973.8133(M)
21 Benzo(k)fluoranthene	252	8.580	8.604	(0.962)	48686	1.02973	339.9005(QMH)
22 Benzo(a)pyrene	252	8.857	8.874	(0.993)	81970	1.83100	604.3918
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	45687	1.08484	358.0943(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.127	(1.132)	15830	0.38429	126.8482(H)
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	57492	1.30501	430.7701

QC Flag Legend

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

Data File: 1CC15025.D

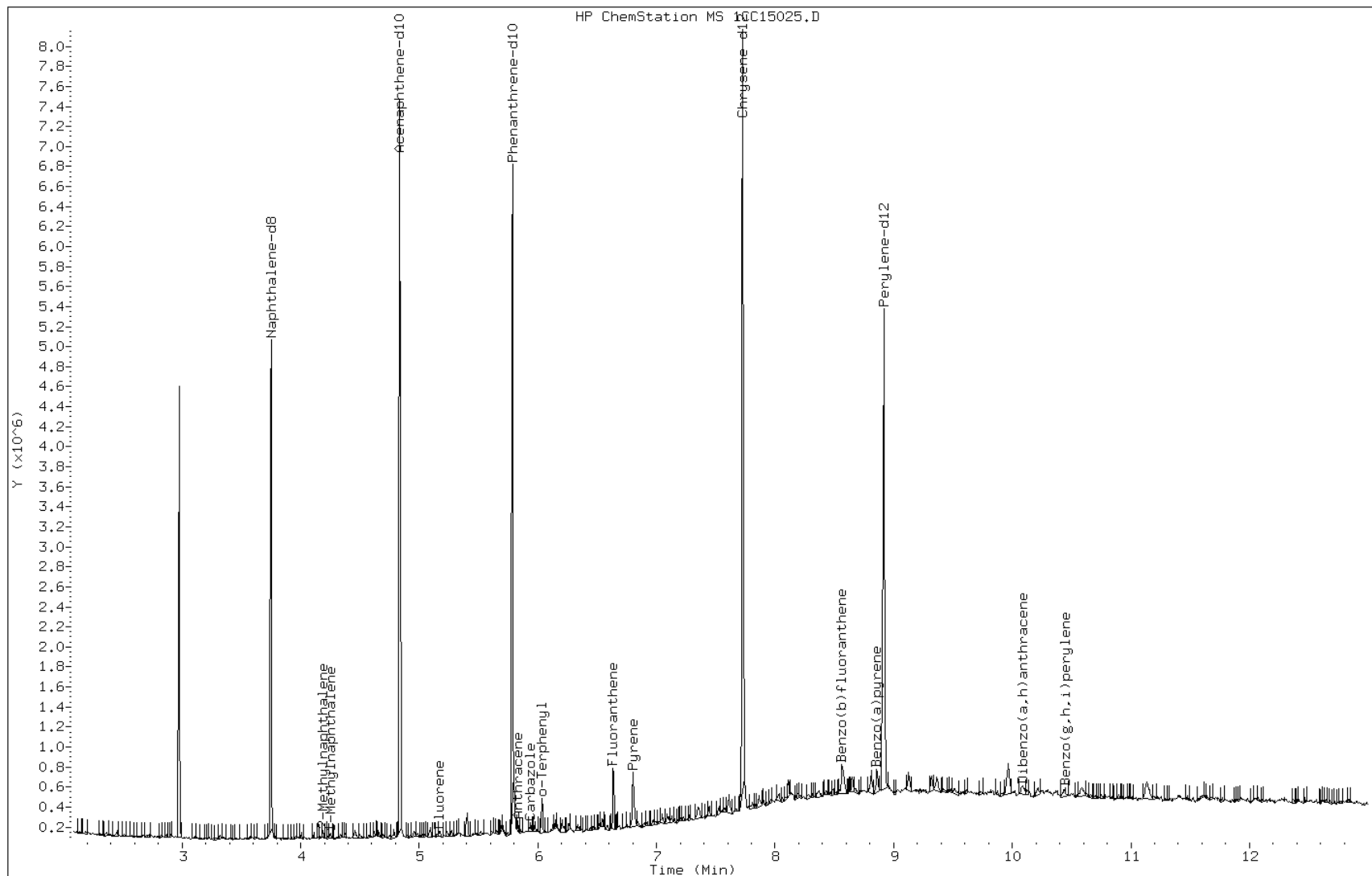
Date: 15-MAR-2013 22:39

Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

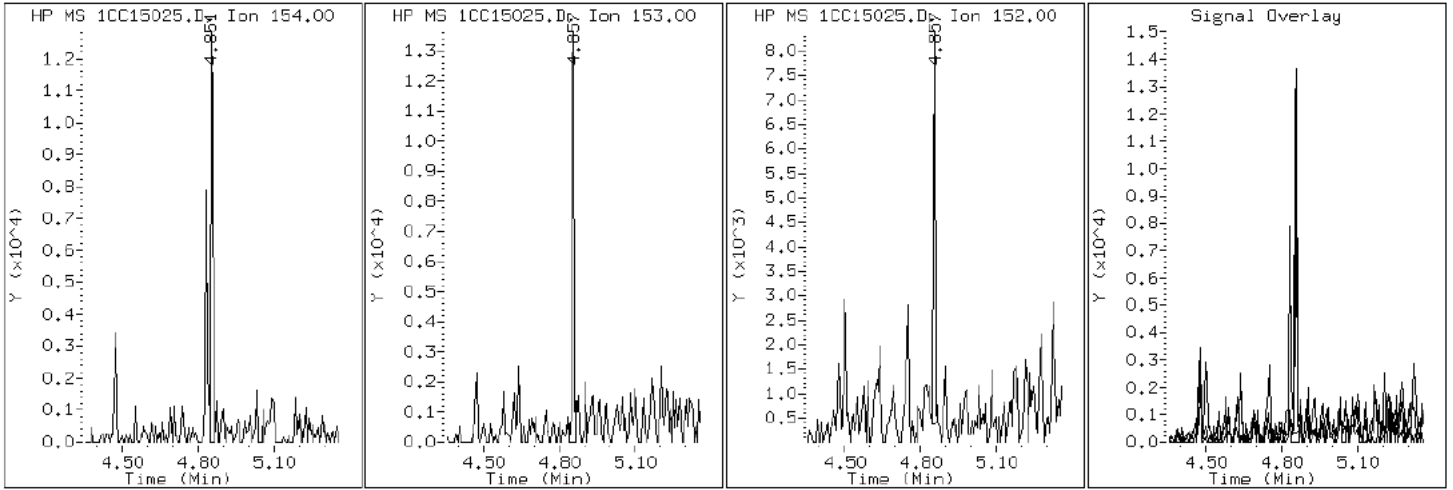
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

7 Acenaphthene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

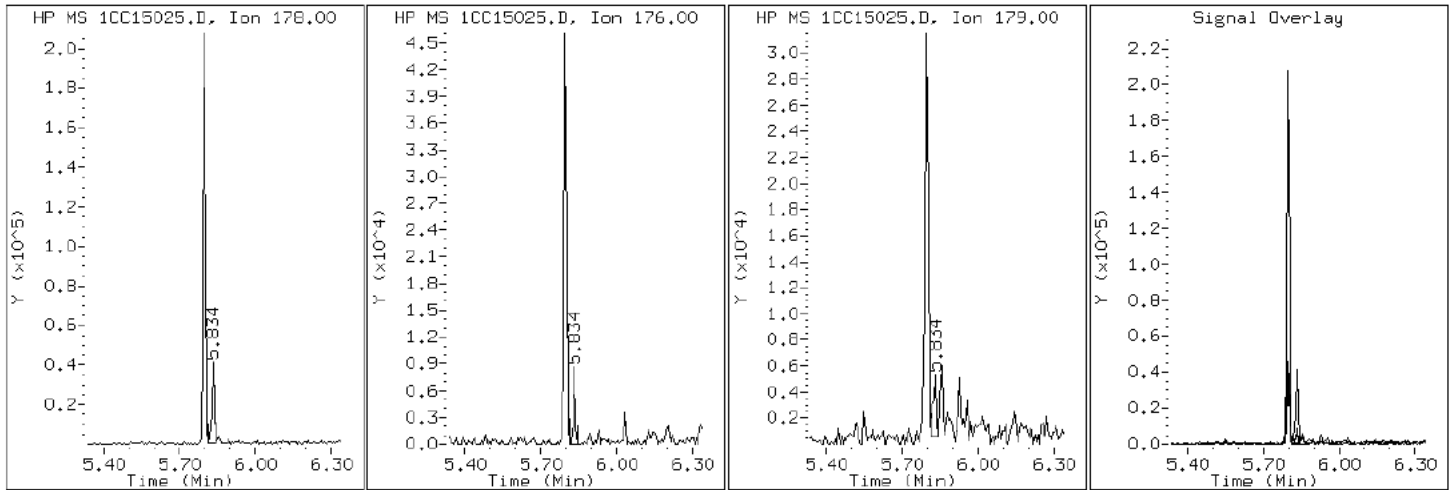
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

12 Anthracene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

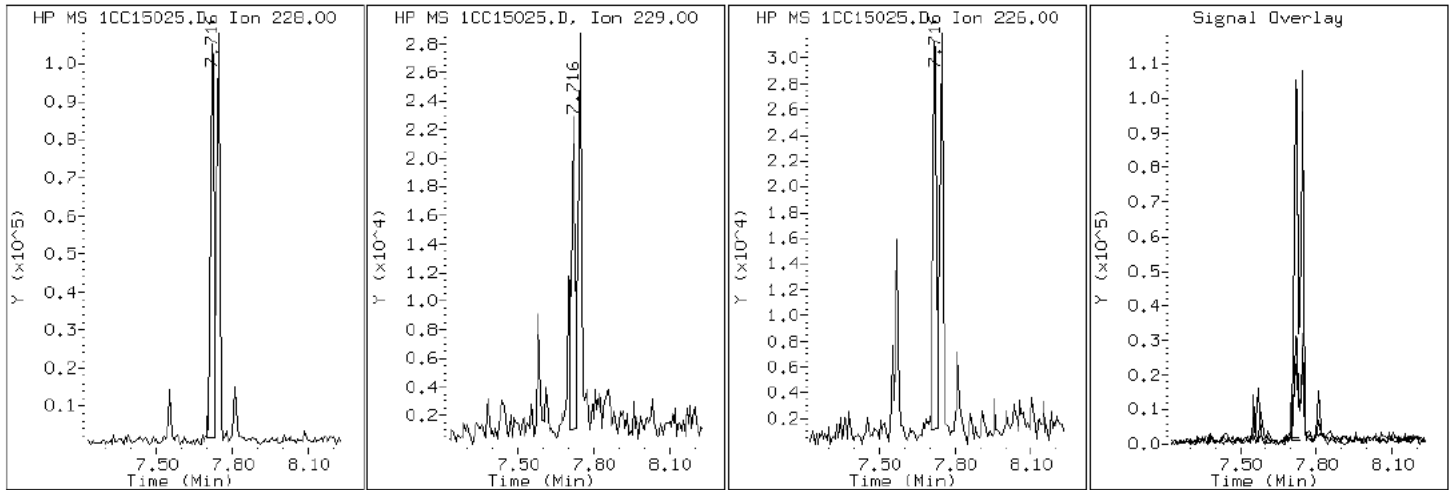
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

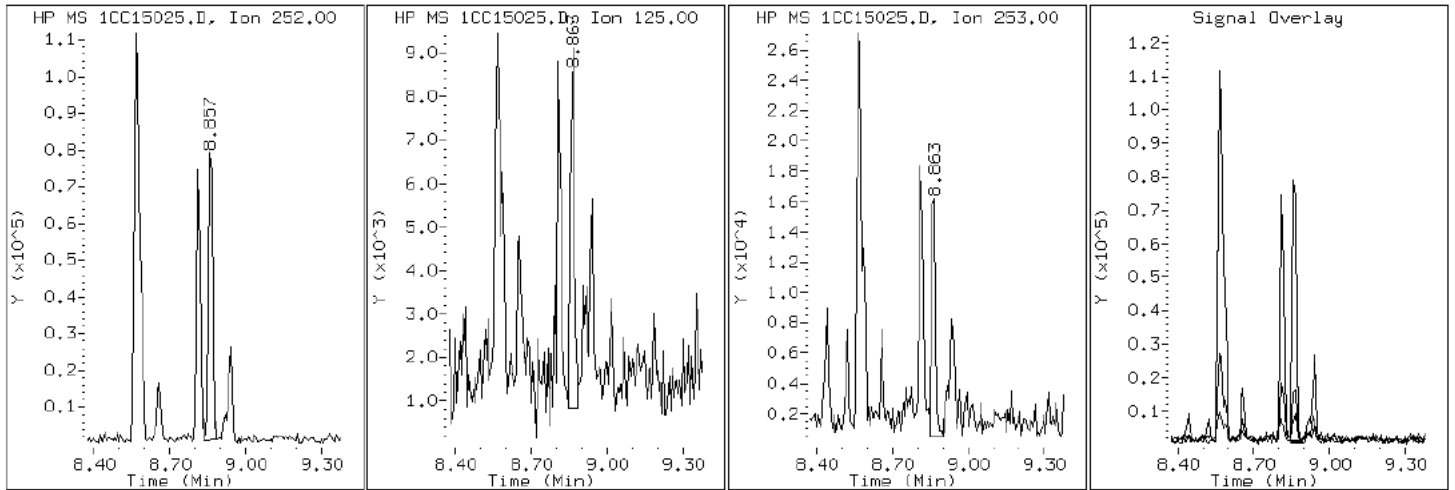
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

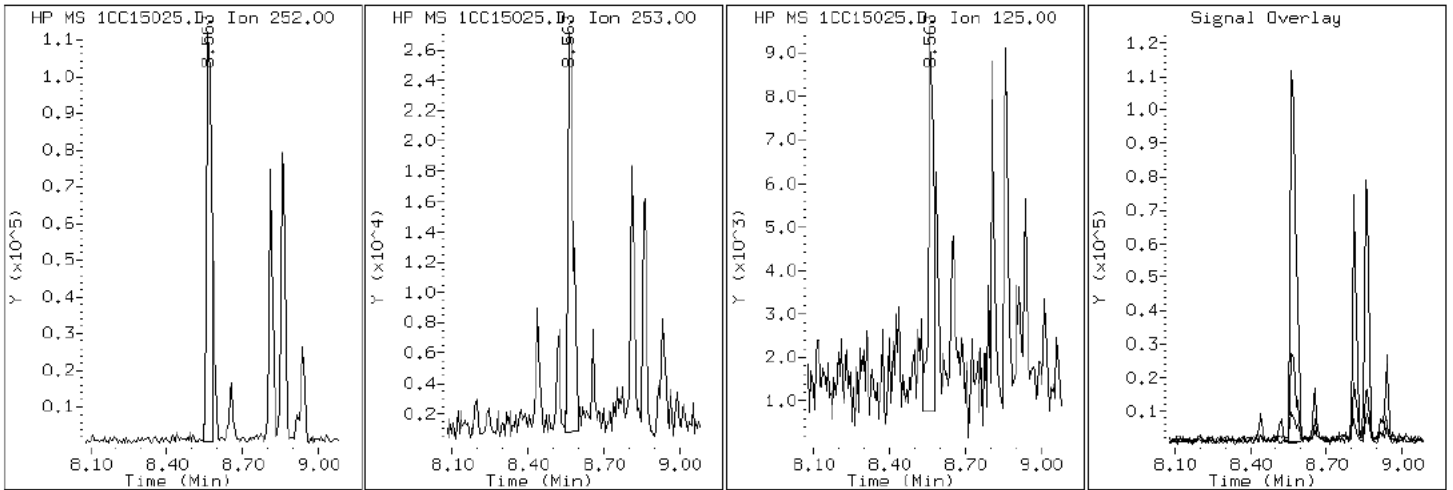
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

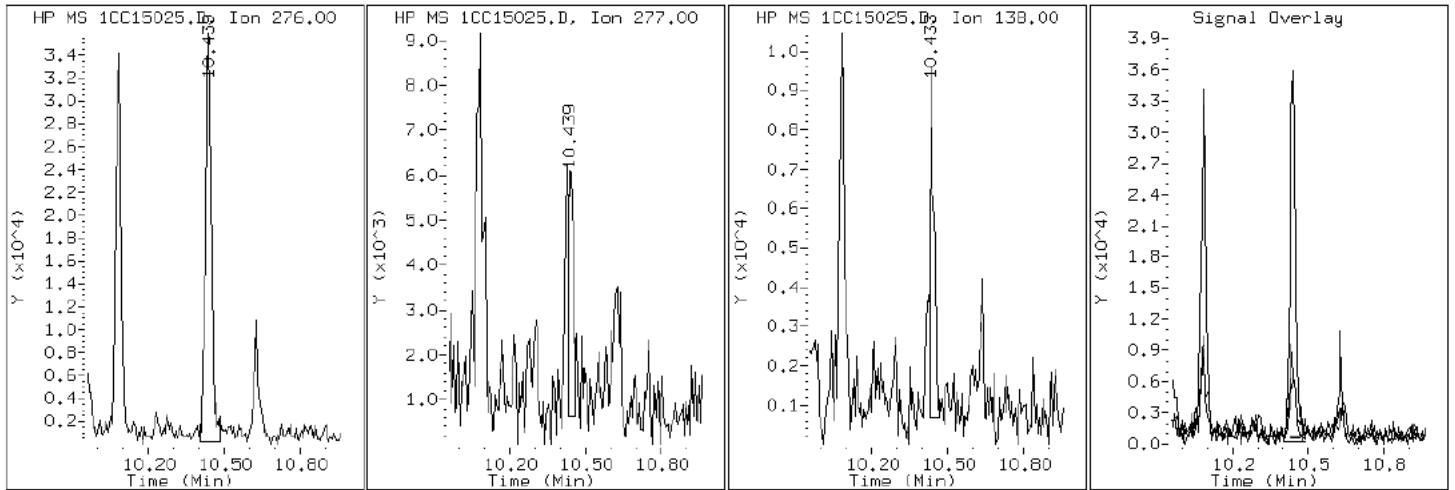
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

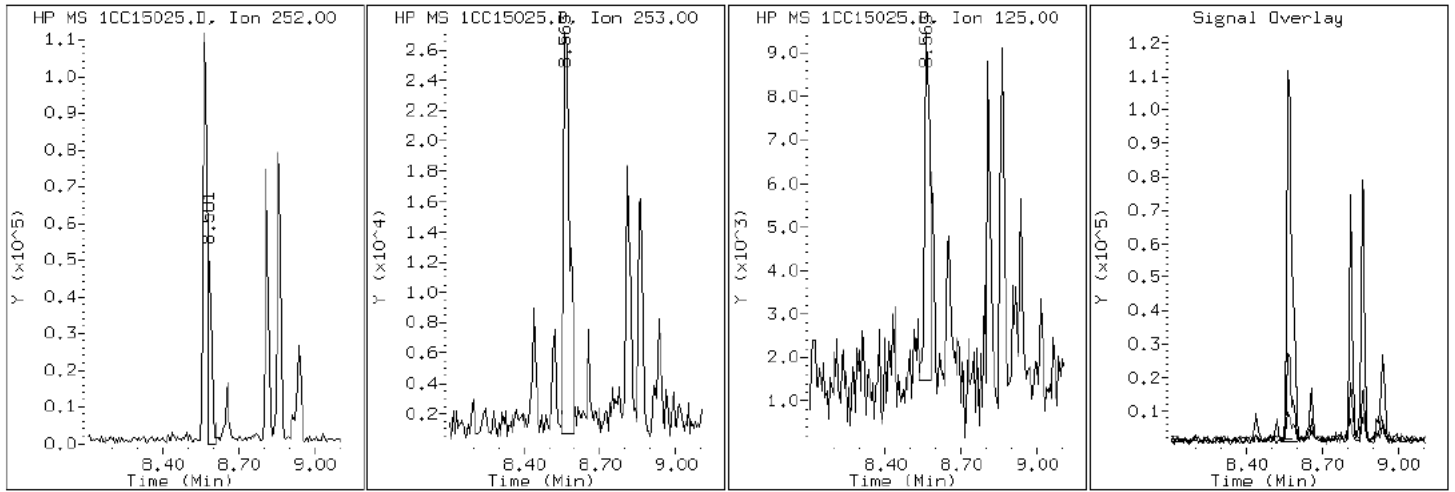
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

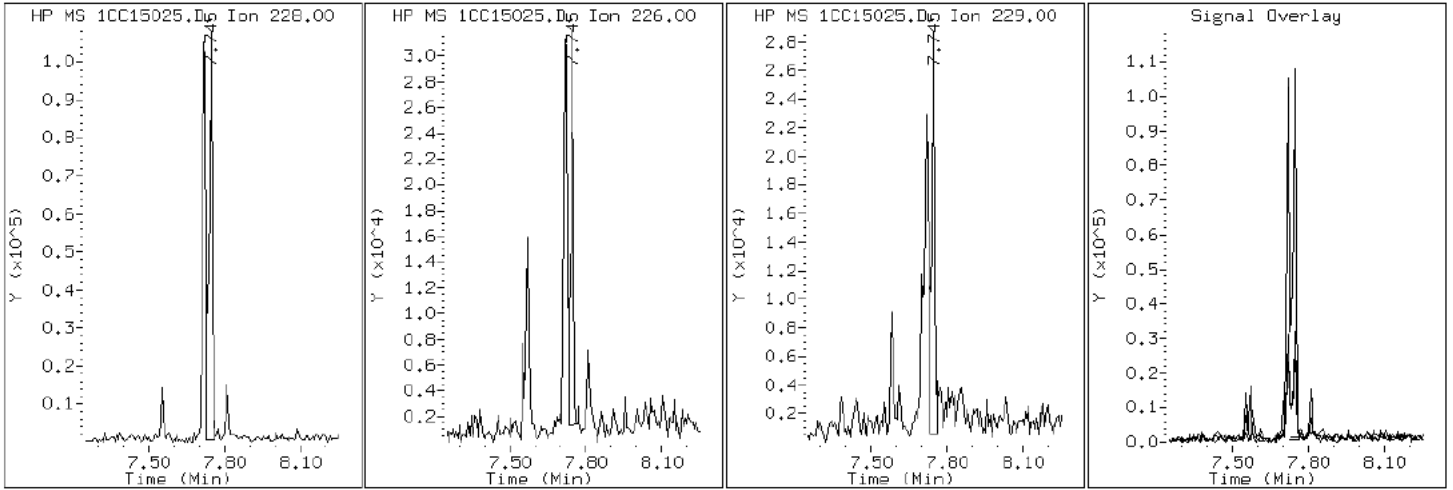
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

19 Chrysene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

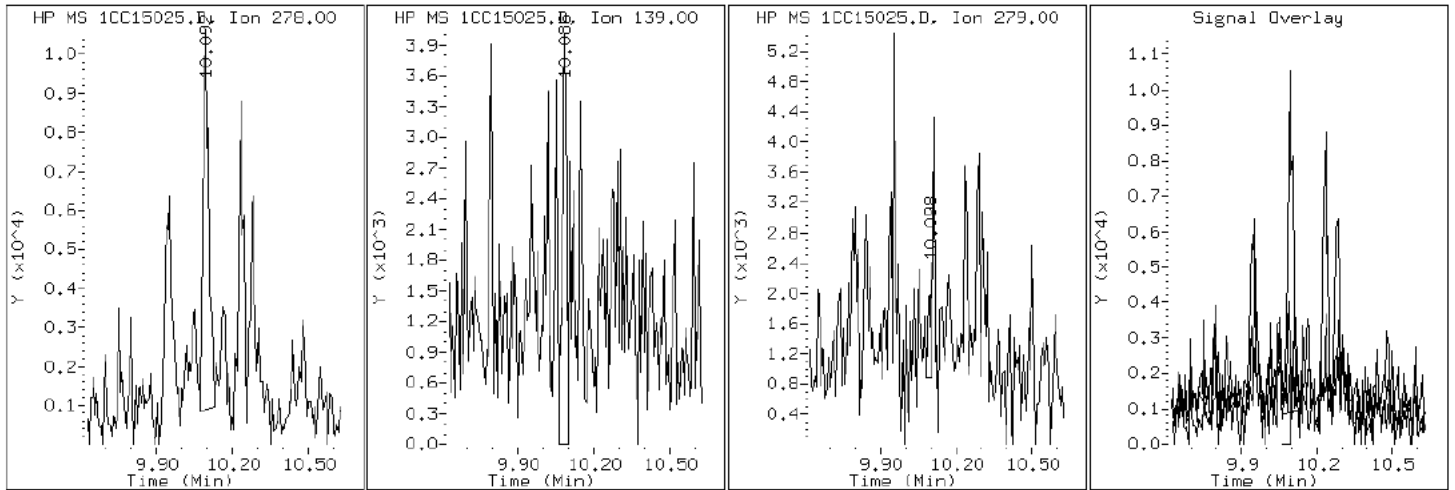
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

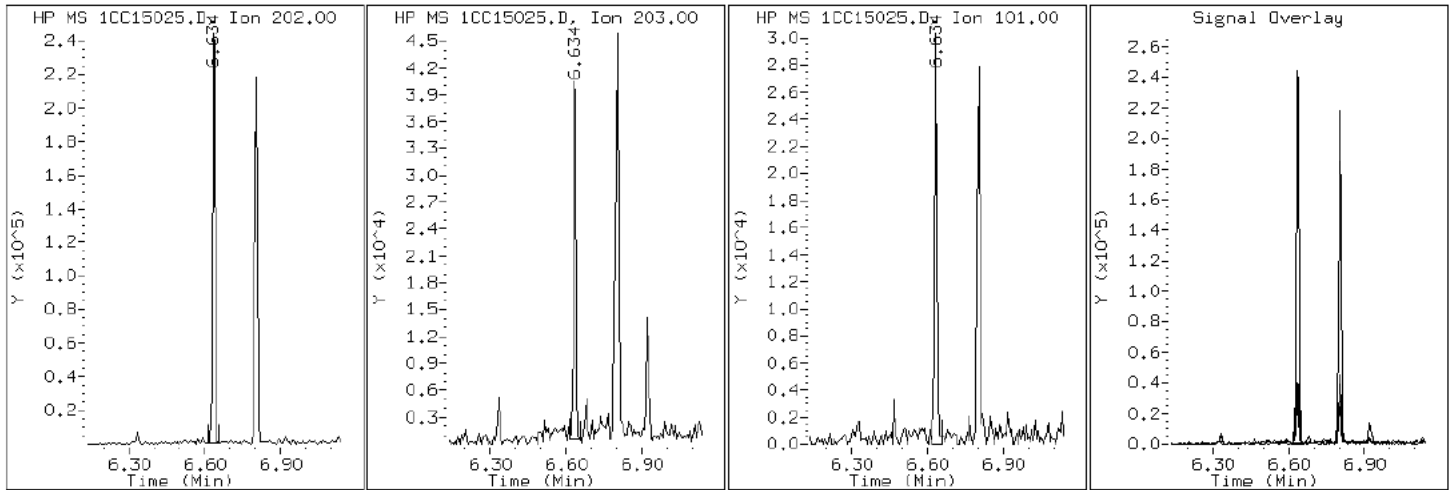
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

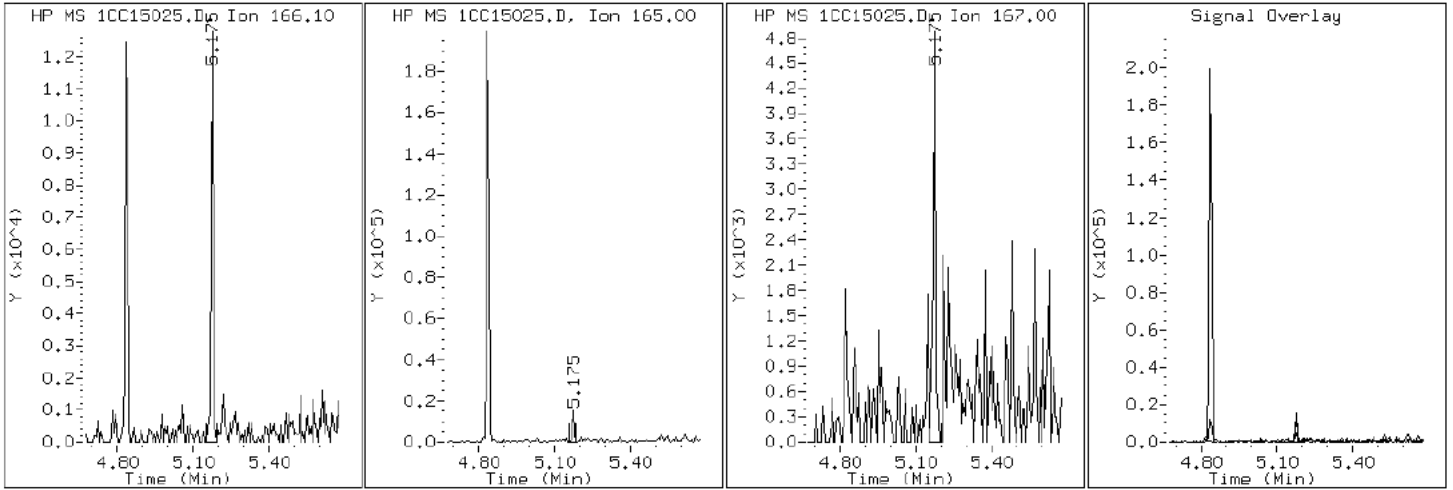
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

9 Fluorene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

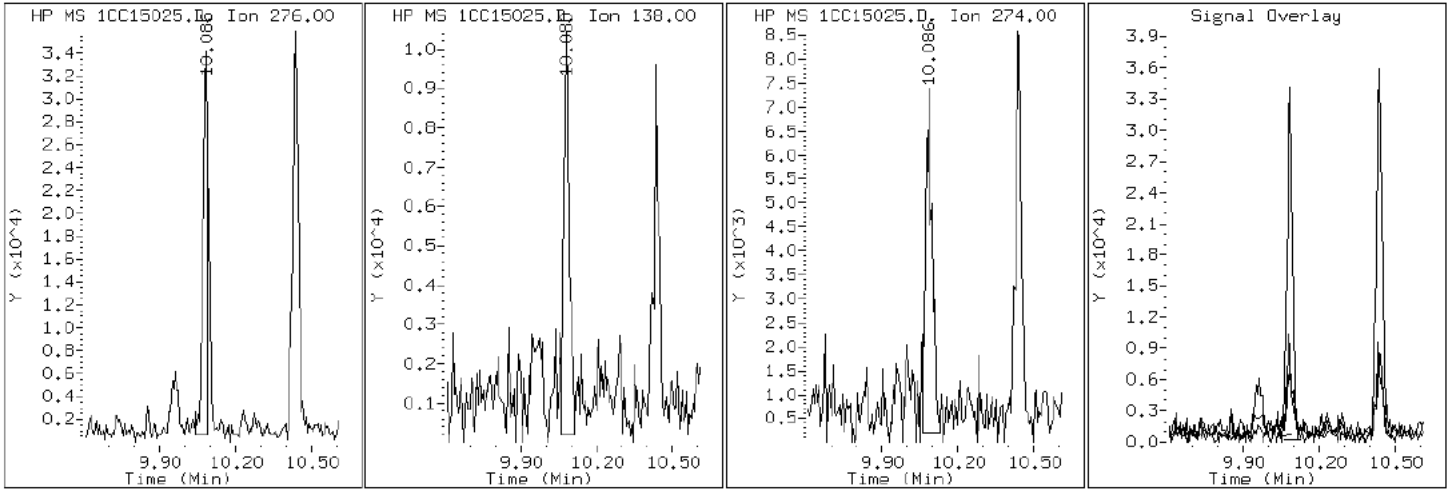
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

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



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

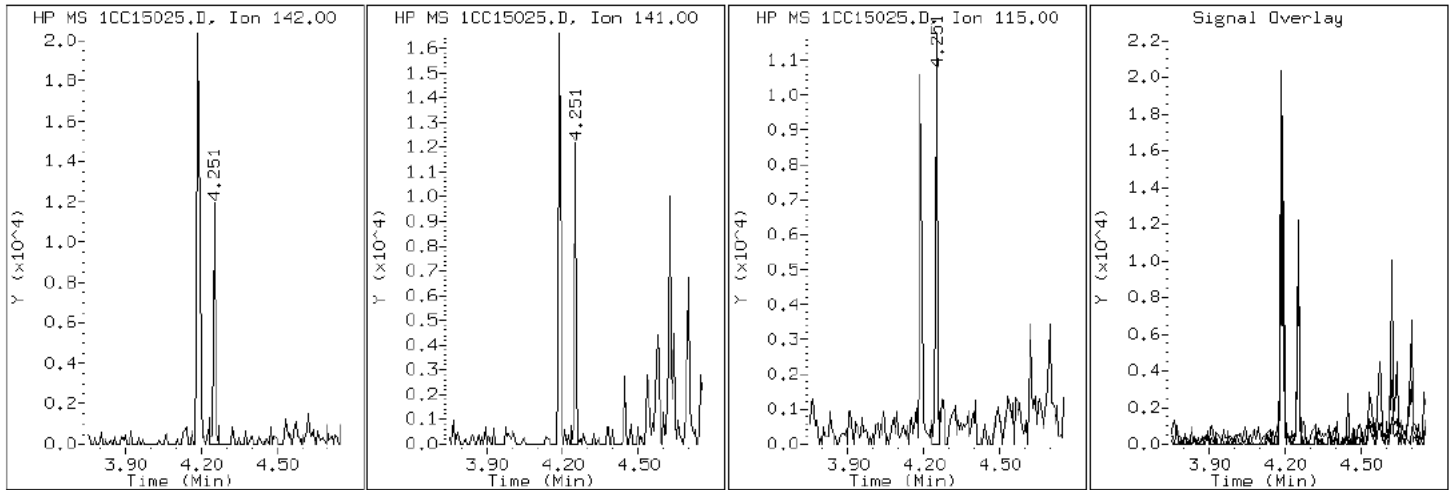
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

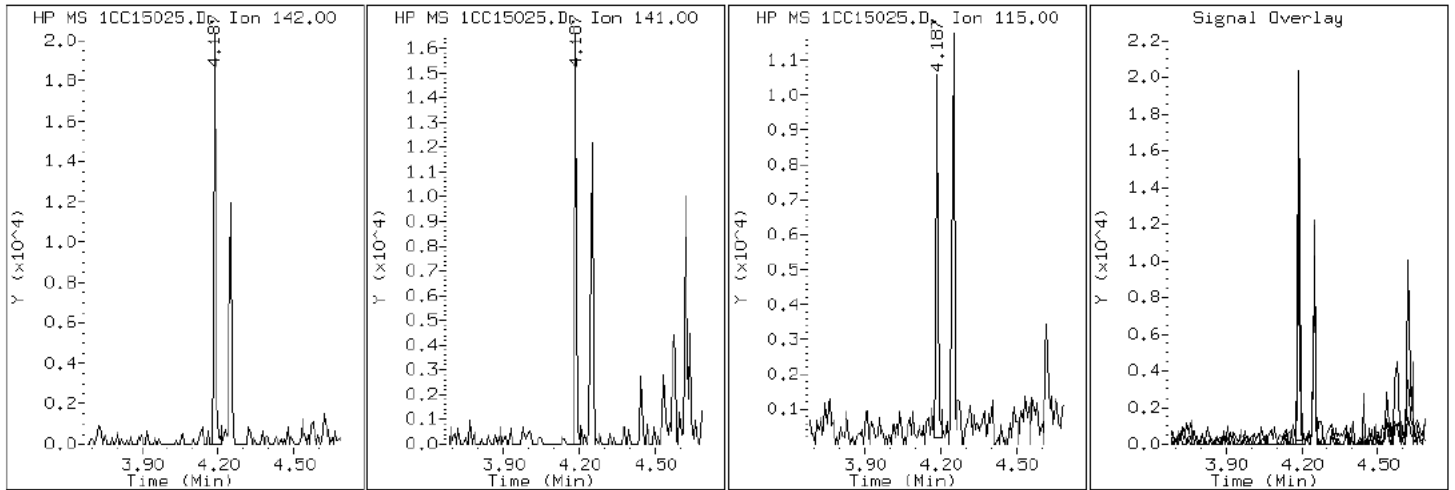
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

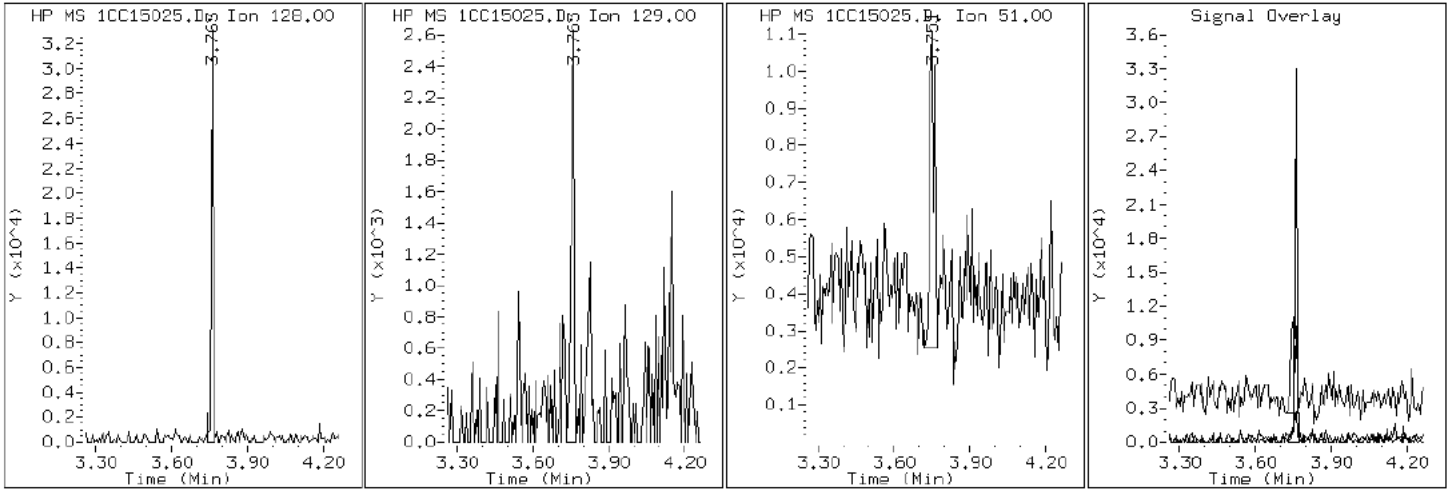
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

2 Naphthalene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

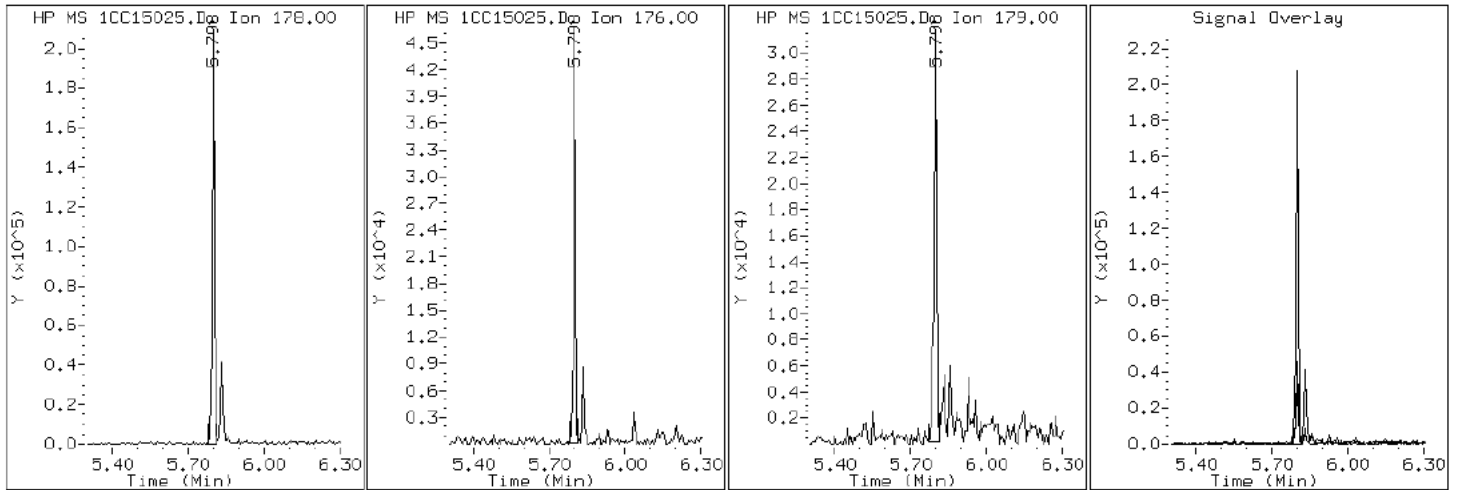
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15025.D

Date: 15-MAR-2013 22:39

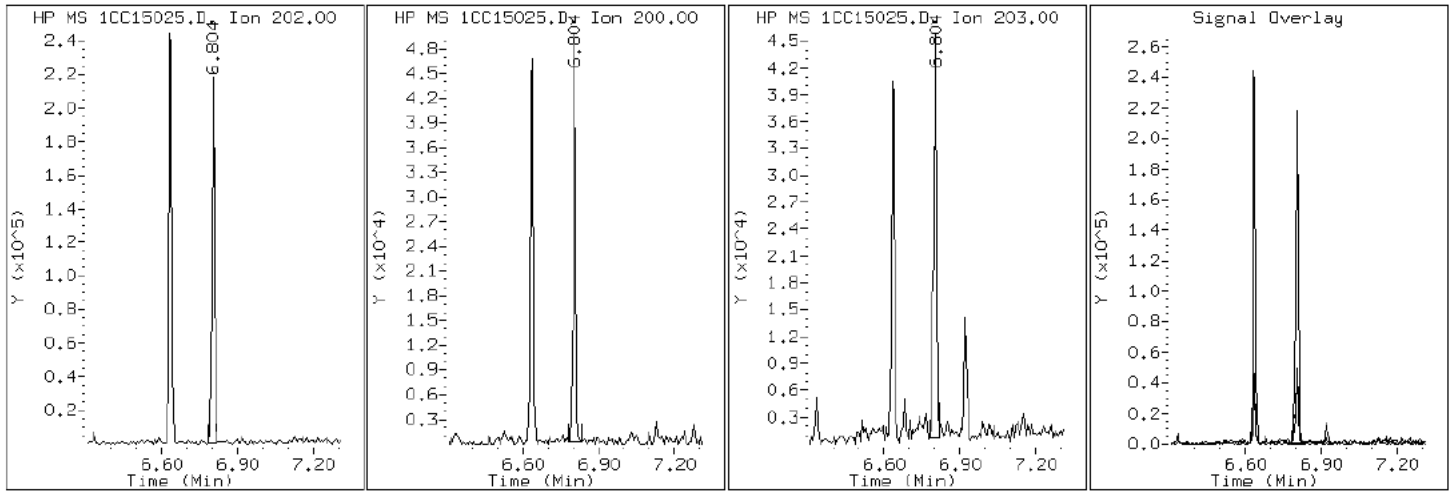
Client ID: CV0822F-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-36-a

Operator: SCC

16 Pyrene

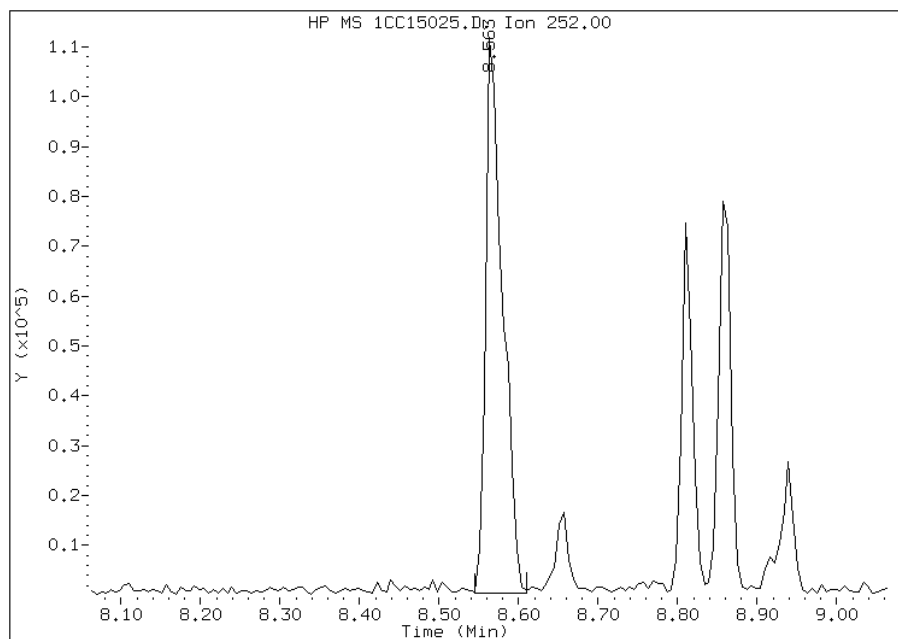


Manual Integration Report

Data File: 1CC15025.D
Inj. Date and Time: 15-MAR-2013 22:39
Instrument ID: BSMC5973.i
Client ID: CV0822F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

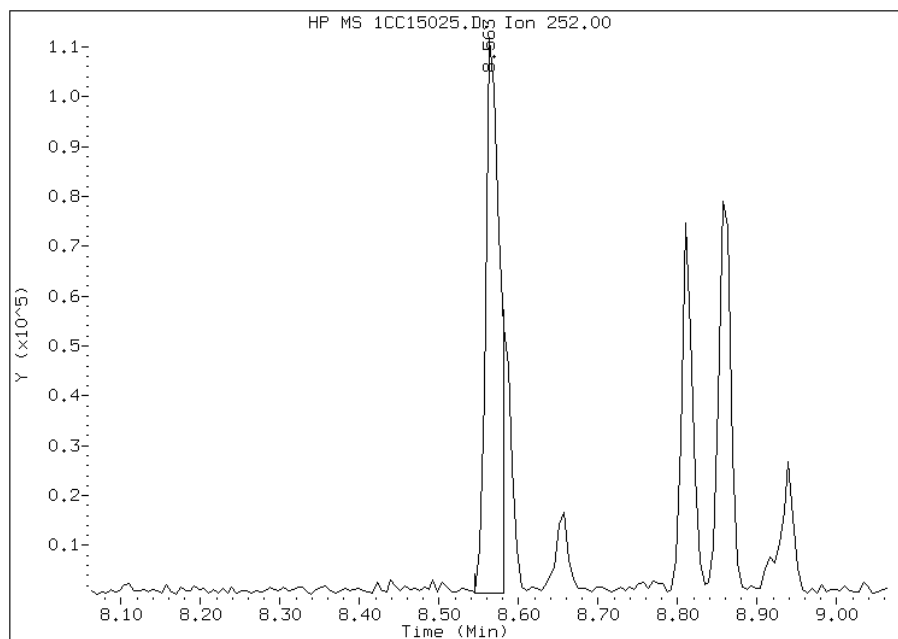
Processing Integration Results

RT: 8.56
Response: 164491
Amount: 4
Conc: 1178



Manual Integration Results

RT: 8.56
Response: 135971
Amount: 3
Conc: 974



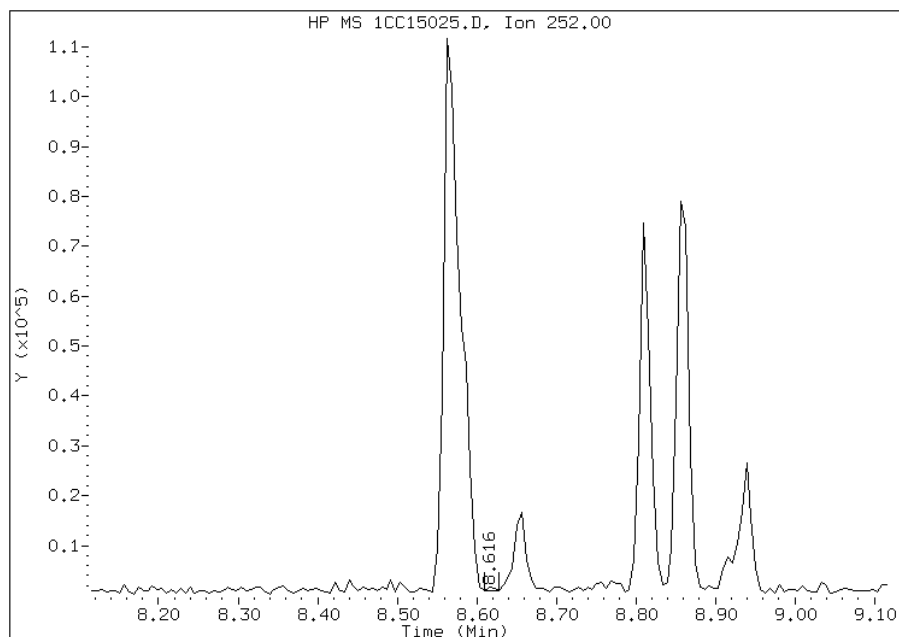
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15025.D
Inj. Date and Time: 15-MAR-2013 22:39
Instrument ID: BSMC5973.i
Client ID: CV0822F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

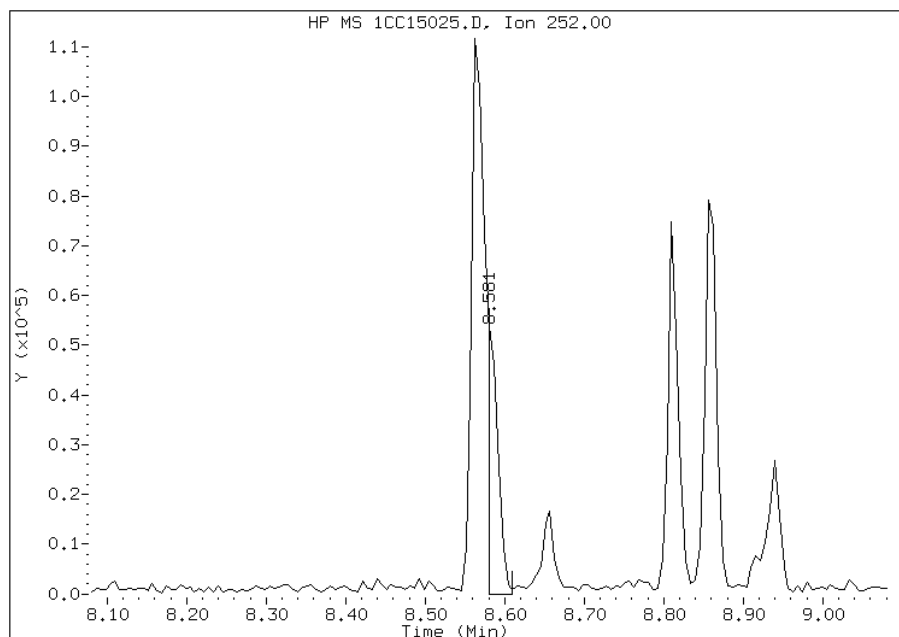
Processing Integration Results

RT: 8.62
Response: 485
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.58
Response: 48686
Amount: 1
Conc: 340



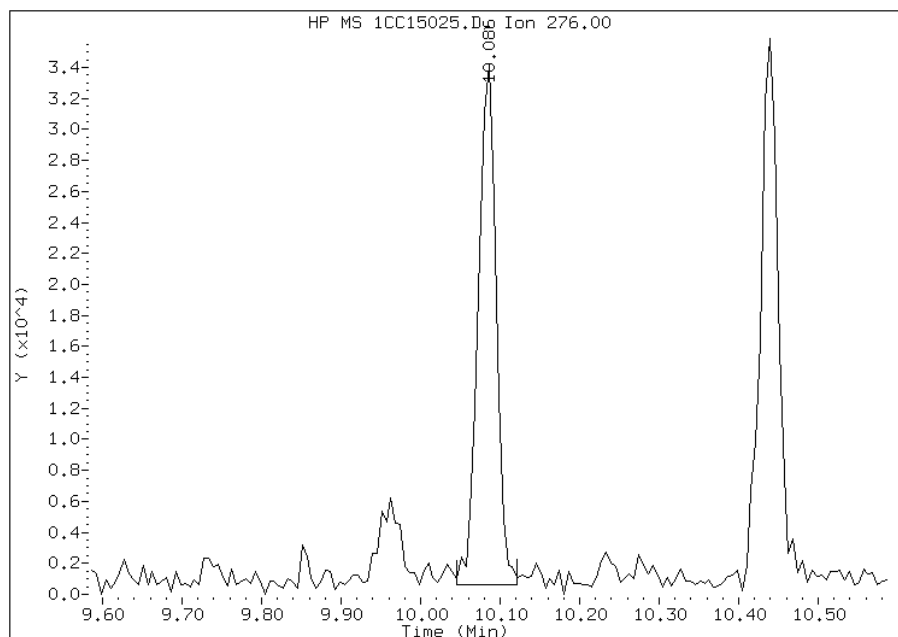
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15025.D
Inj. Date and Time: 15-MAR-2013 22:39
Instrument ID: BSMC5973.i
Client ID: CV0822F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

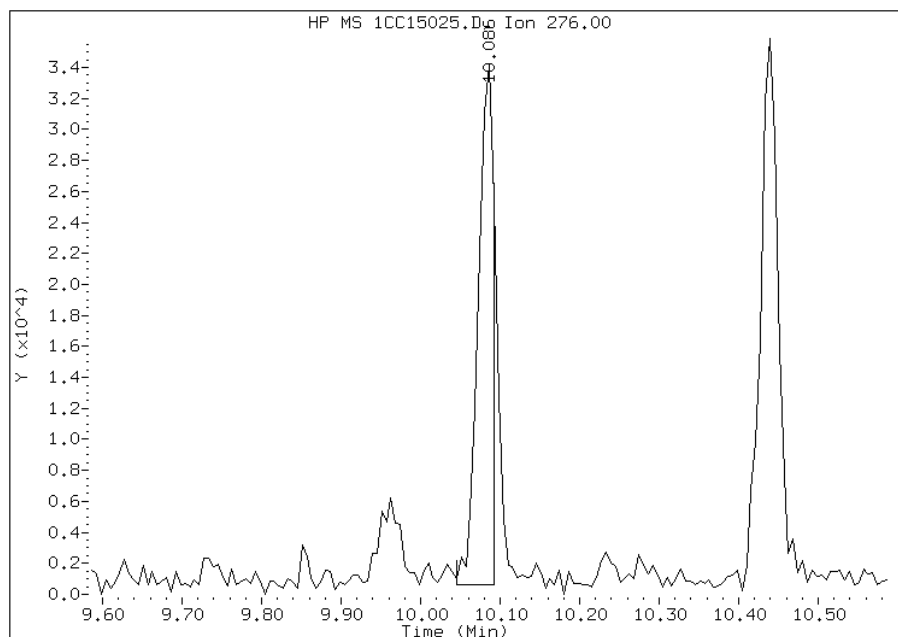
Processing Integration Results

RT: 10.09
Response: 52422
Amount: 1
Conc: 411



Manual Integration Results

RT: 10.09
Response: 45687
Amount: 1
Conc: 358



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0822F-CSD Lab Sample ID: 680-88118-37
 Matrix: Solid Lab File ID: 1CC15026.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 13:10
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.06(g) Date Analyzed: 03/15/2013 22:57
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	97
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	66		41	20
56-55-3	Benzo[a]anthracene	320		39	19
50-32-8	Benzo[a]pyrene	310		50	25
205-99-2	Benzo[b]fluoranthene	480		59	30
191-24-2	Benzo[g,h,i]perylene	250		97	21
207-08-9	Benzo[k]fluoranthene	170		39	17
218-01-9	Chrysene	310		44	22
53-70-3	Dibenz(a,h)anthracene	79	J	97	20
206-44-0	Fluoranthene	500		97	19
86-73-7	Fluorene	39	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	230		97	34
90-12-0	1-Methylnaphthalene	89	J	190	21
91-57-6	2-Methylnaphthalene	120	J	190	34
91-20-3	Naphthalene	100	J	190	21
85-01-8	Phenanthrene	410		39	19
129-00-0	Pyrene	440		97	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15026.D
 Lab Smp Id: 680-88118-A-37-A Client Smp ID: CV0822F-CSD
 Inj Date : 15-MAR-2013 22:57
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-37-a
 Misc Info : 680-88118-A-37-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 26
 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	15.060	Weight Extracted
M	17.897	% 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		3.751	3.751	(1.000)	1850424	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	1361391	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	2492100	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	67751	1.80062	582.5038	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	2710403	40.0000		
* 23 Perylene-d12	264		8.921	8.927	(1.000)	2452208	40.0000		
2 Naphthalene	128		3.762	3.763	(1.003)	15087	0.31318	101.3143(Q)	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	11796	0.36709	118.7540	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	8023	0.27414	88.6841	
9 Fluorene	166		5.174	5.174	(1.071)	5239	0.12143	39.2820	
11 Phenanthrene	178		5.798	5.804	(1.002)	91719	1.27281	411.7545	
12 Anthracene	178		5.833	5.839	(1.008)	14485	0.20553	66.4907	
13 Carbazole	167		5.939	5.945	(1.026)	15145	0.24175	78.2068	
15 Fluoranthene	202		6.639	6.639	(1.147)	122908	1.55747	503.8452	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
16 Pyrene	202		6.803	6.810	(0.880)	99520	1.36632	442.0055
17 Benzo(a)anthracene	228		7.721	7.727	(0.999)	76356	0.97608	315.7623
19 Chrysene	228		7.745	7.751	(1.002)	74188	0.94765	306.5665
20 Benzo(b)fluoranthene	252		8.568	8.580	(0.960)	94699	1.47770	478.0390(M)
21 Benzo(k)fluoranthene	252		8.580	8.604	(0.962)	35421	0.53879	174.2999(MH)
22 Benzo(a)pyrene	252		8.862	8.874	(0.993)	60019	0.96419	311.9184
24 Indeno(1,2,3-cd)pyrene	276		10.086	10.109	(1.131)	42315	0.72262	233.7694(M)
25 Dibenzo(a,h)anthracene	278		10.103	10.127	(1.133)	13996	0.24435	79.0489(M)
26 Benzo(g,h,i)perylene	276		10.439	10.462	(1.170)	47836	0.78092	252.6280(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: 1CC15026.D

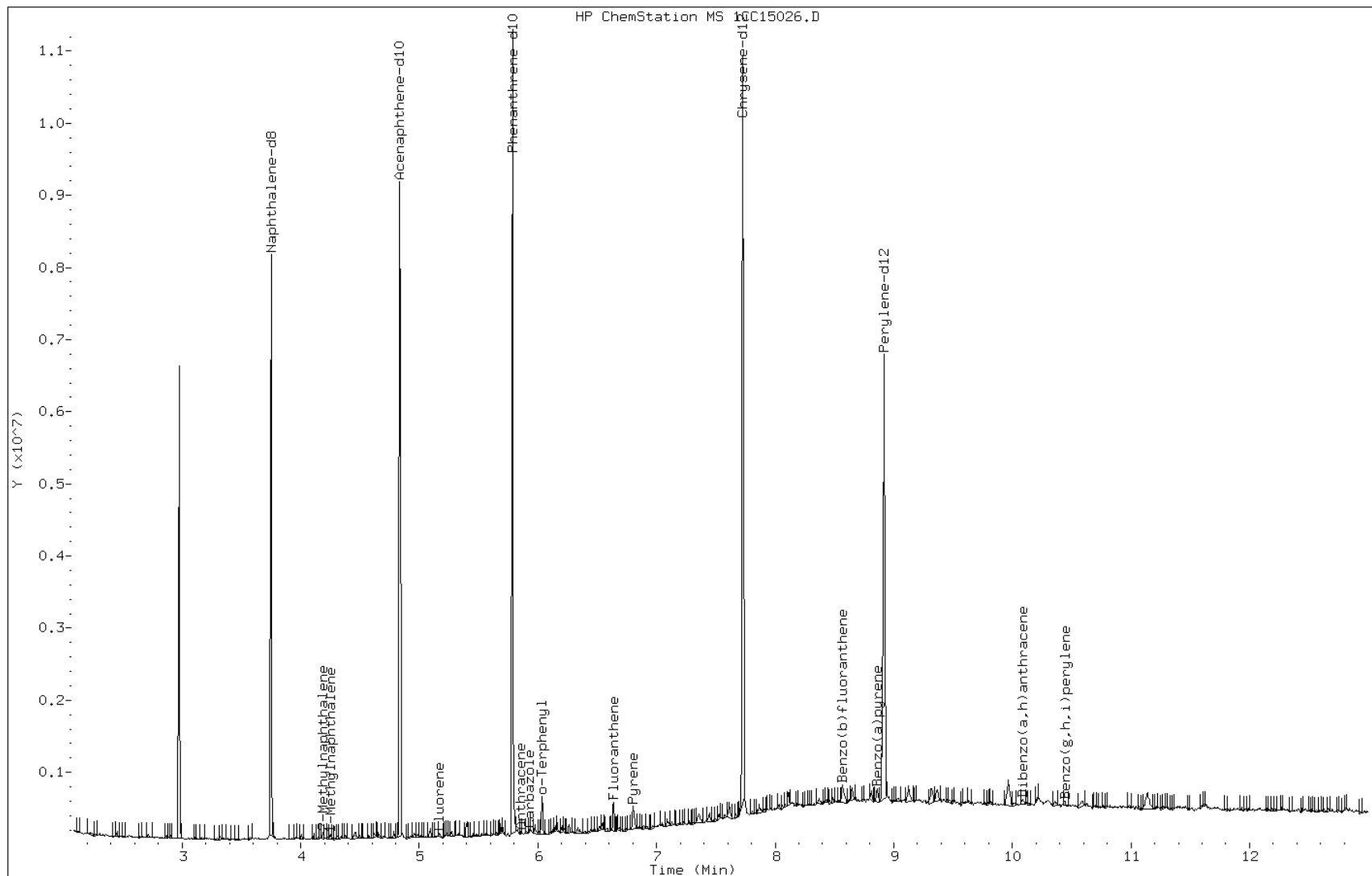
Date: 15-MAR-2013 22:57

Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

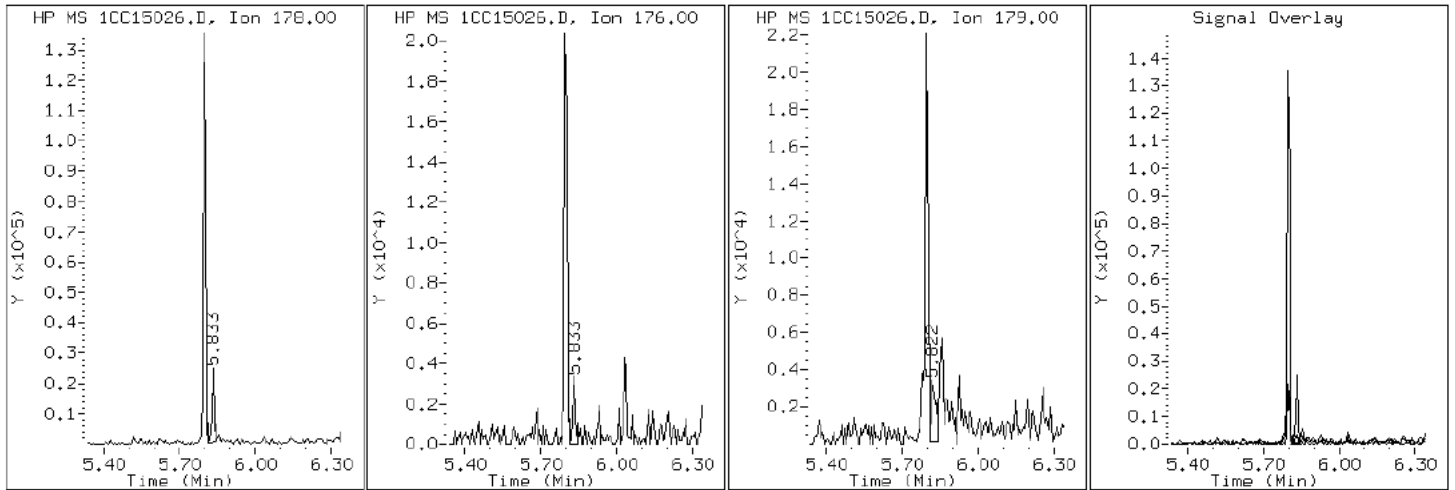
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

12 Anthracene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

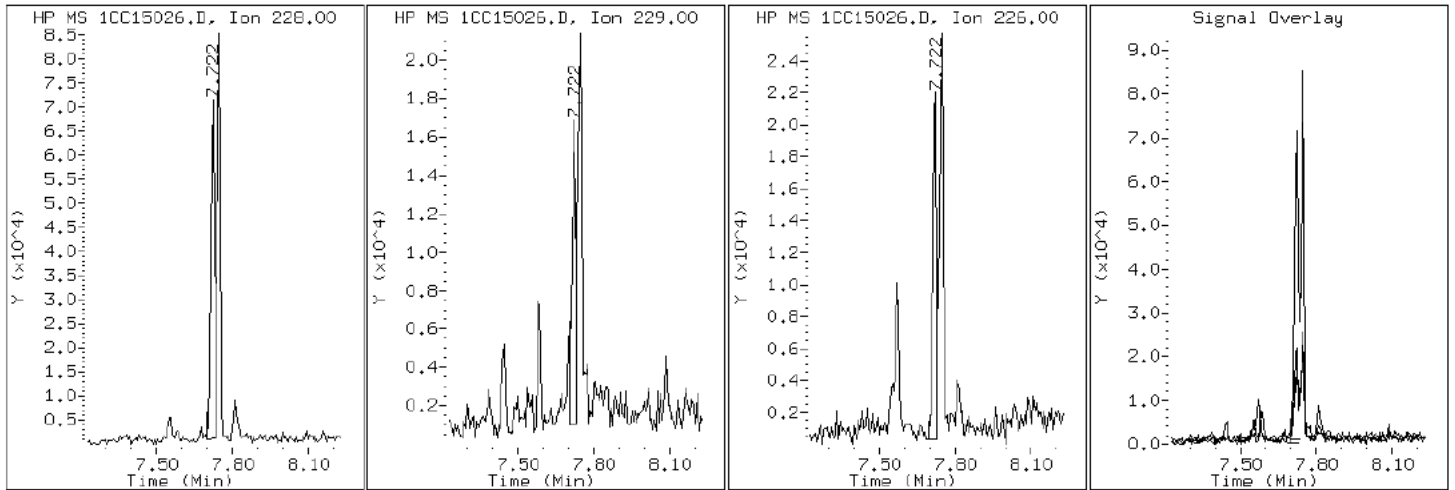
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

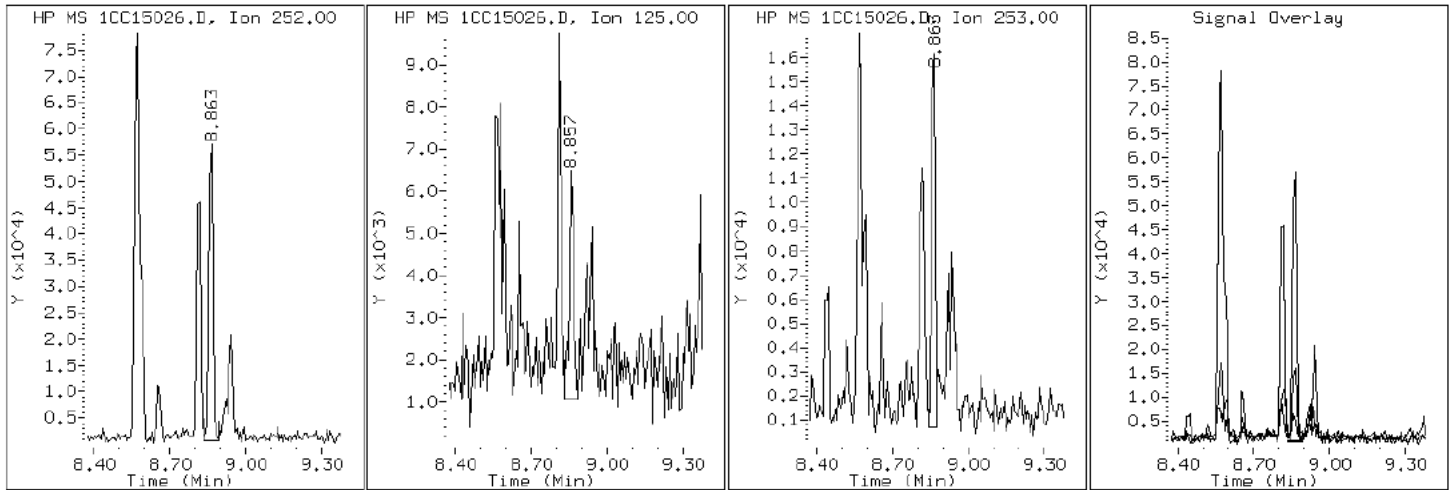
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

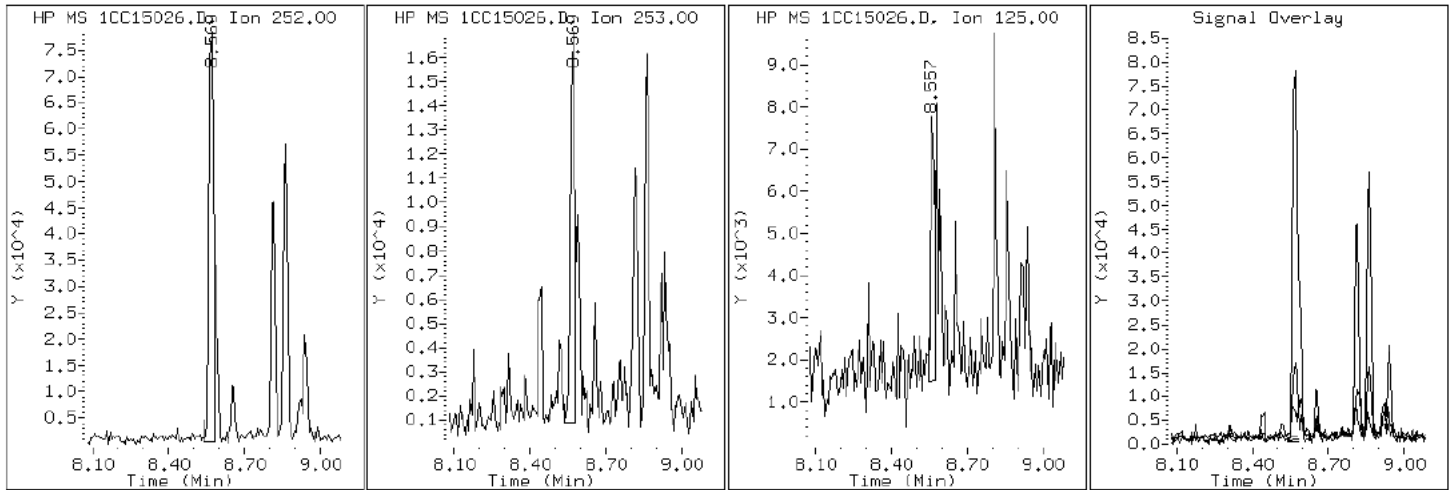
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

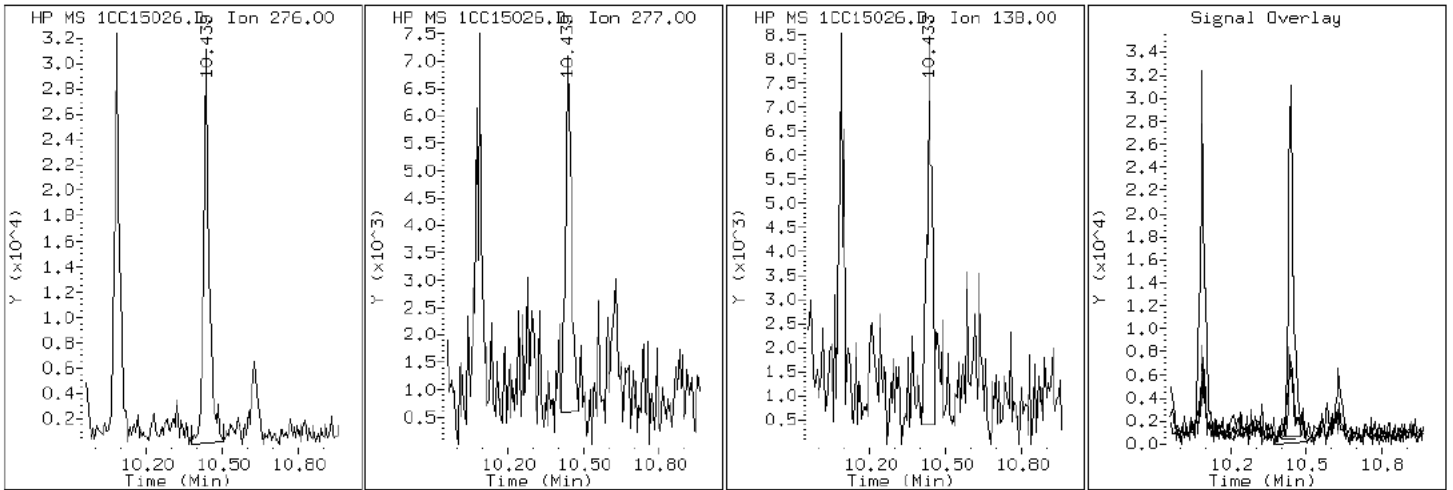
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

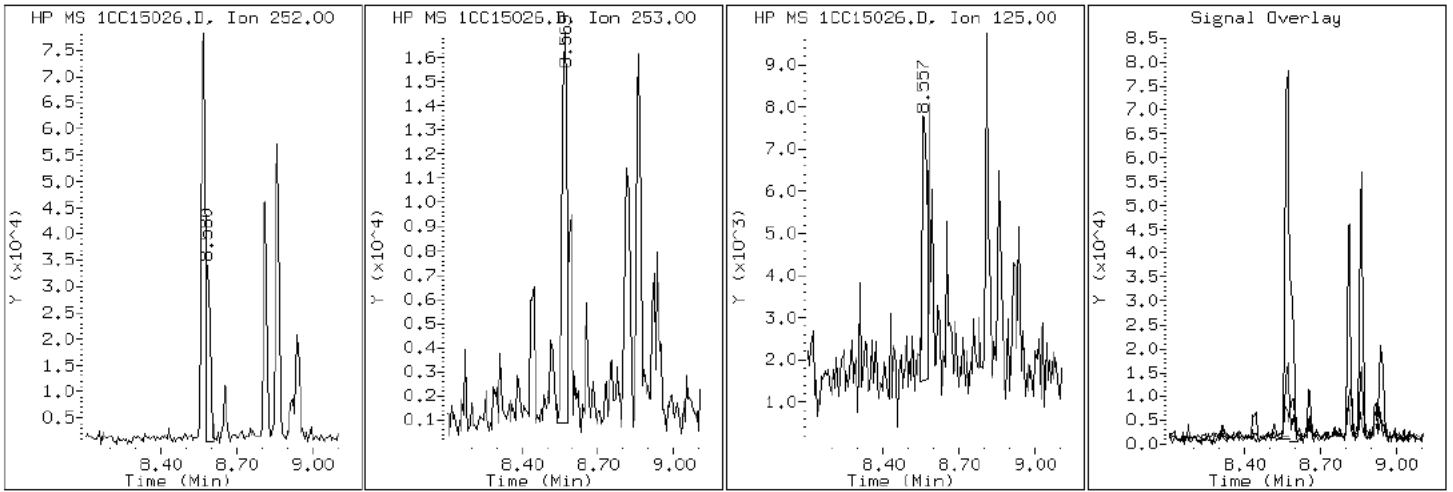
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

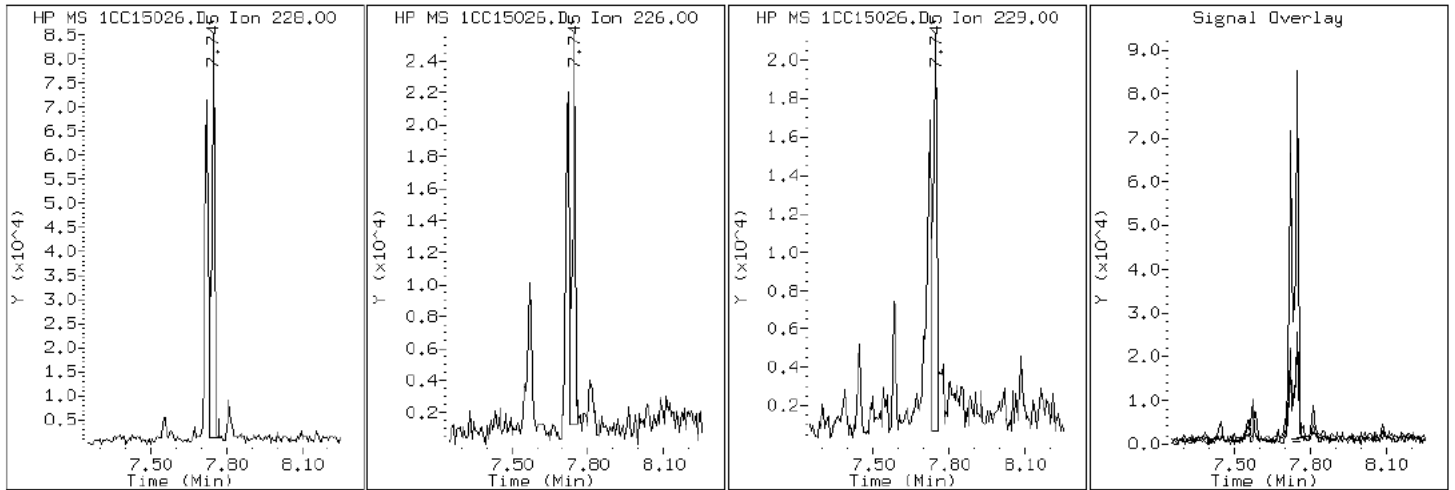
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

19 Chrysene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

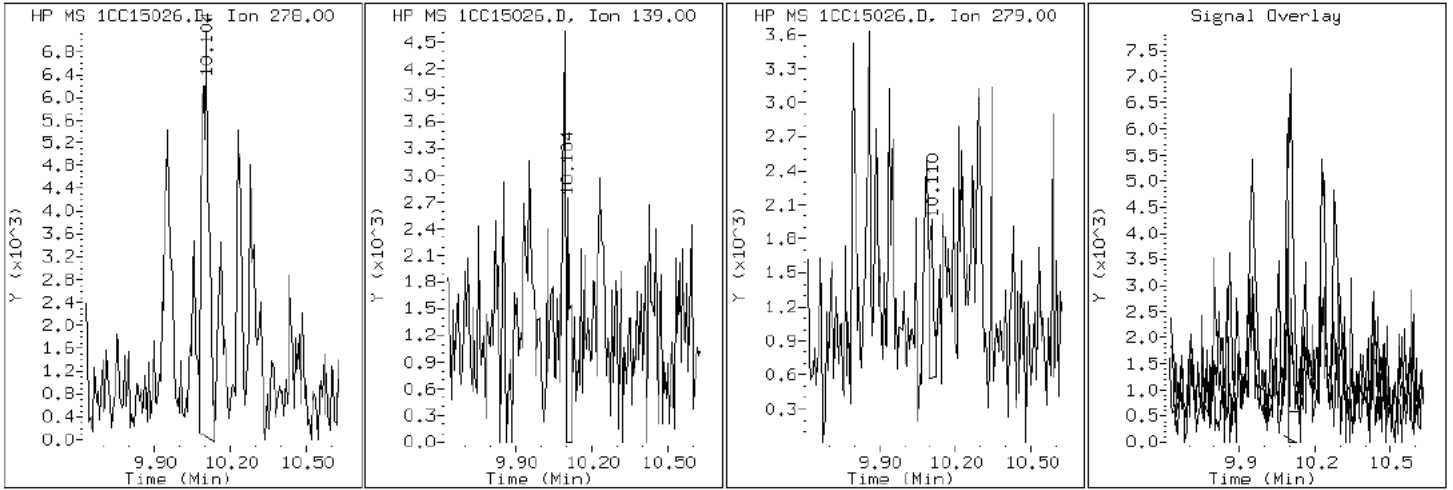
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

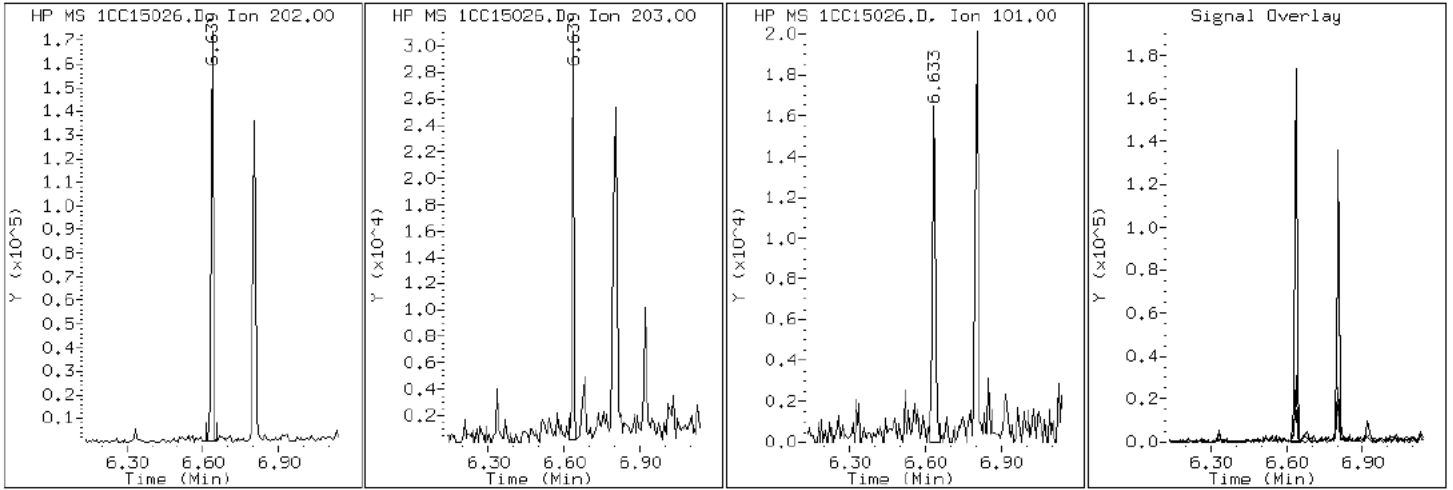
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

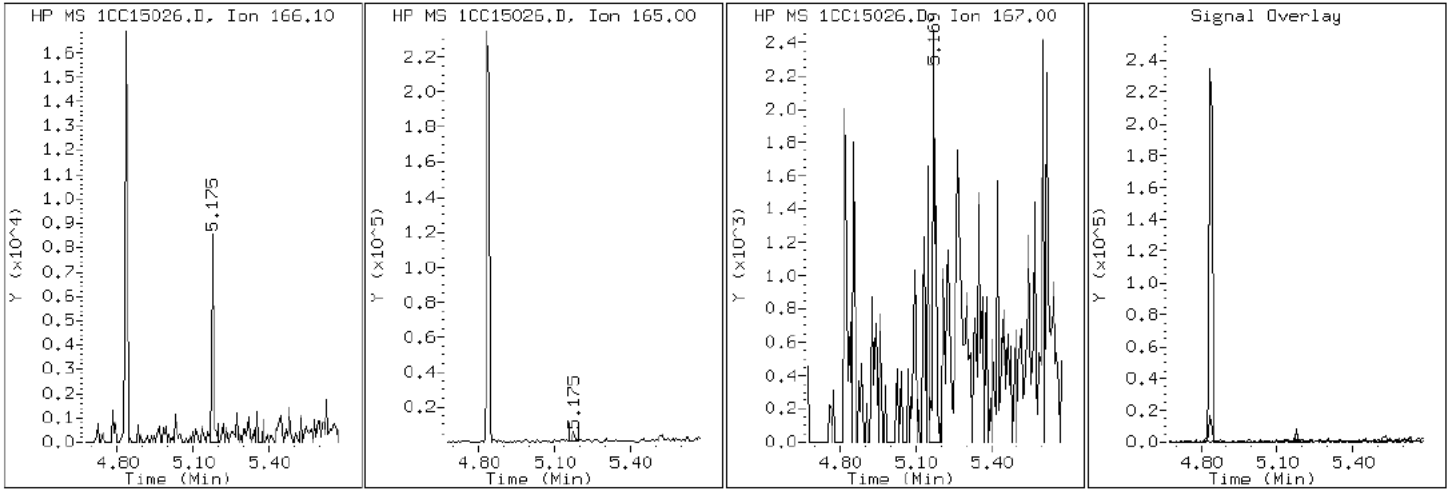
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

9 Fluorene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

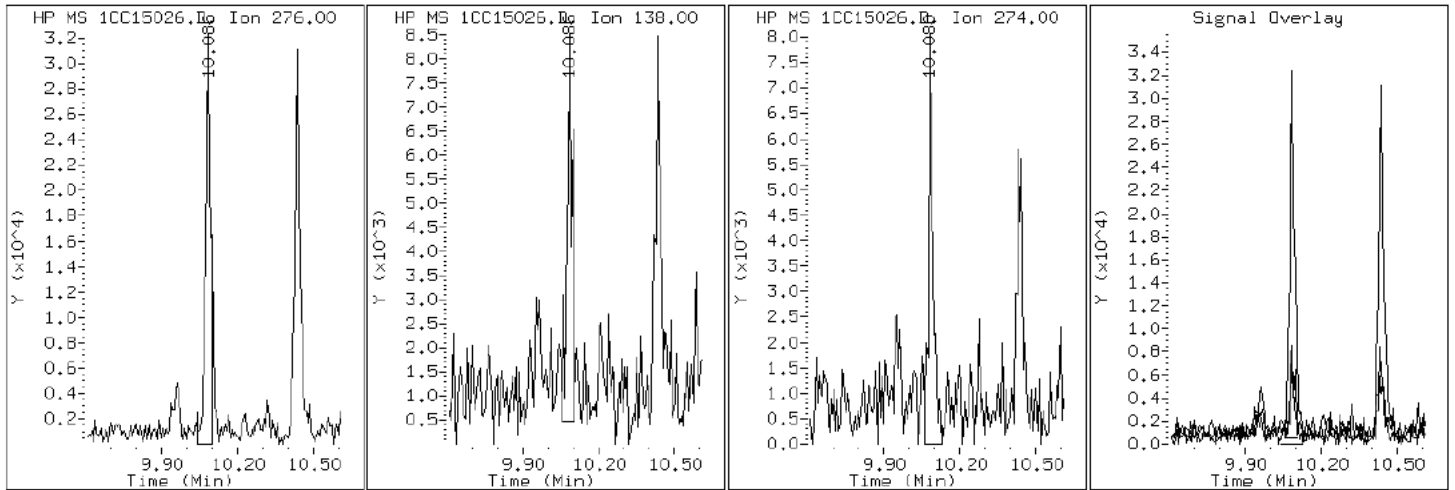
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

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



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

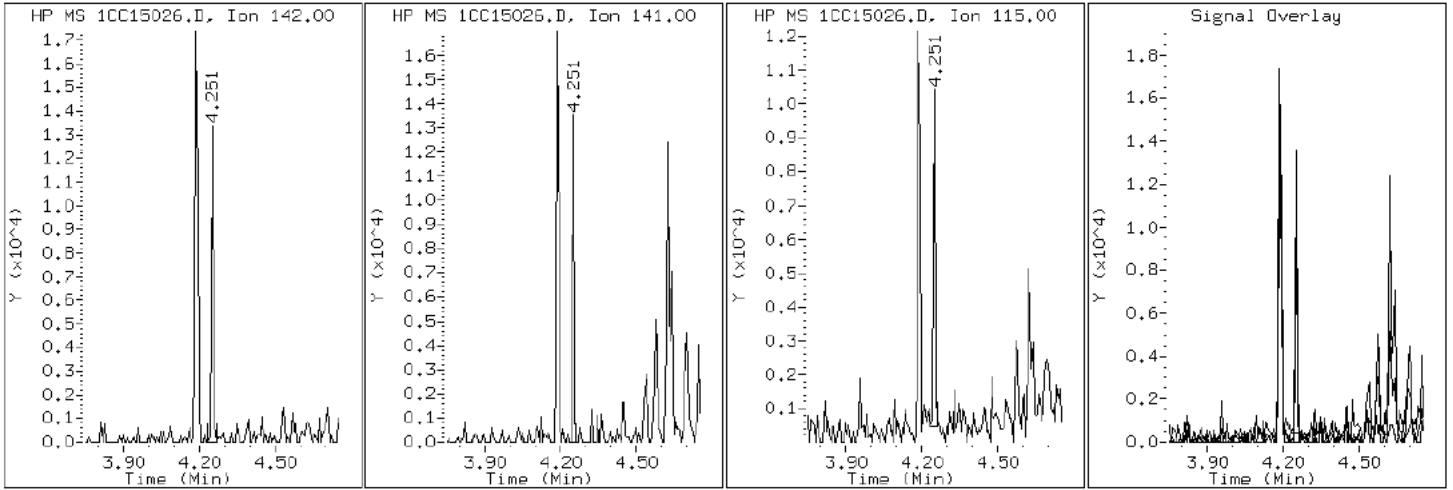
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

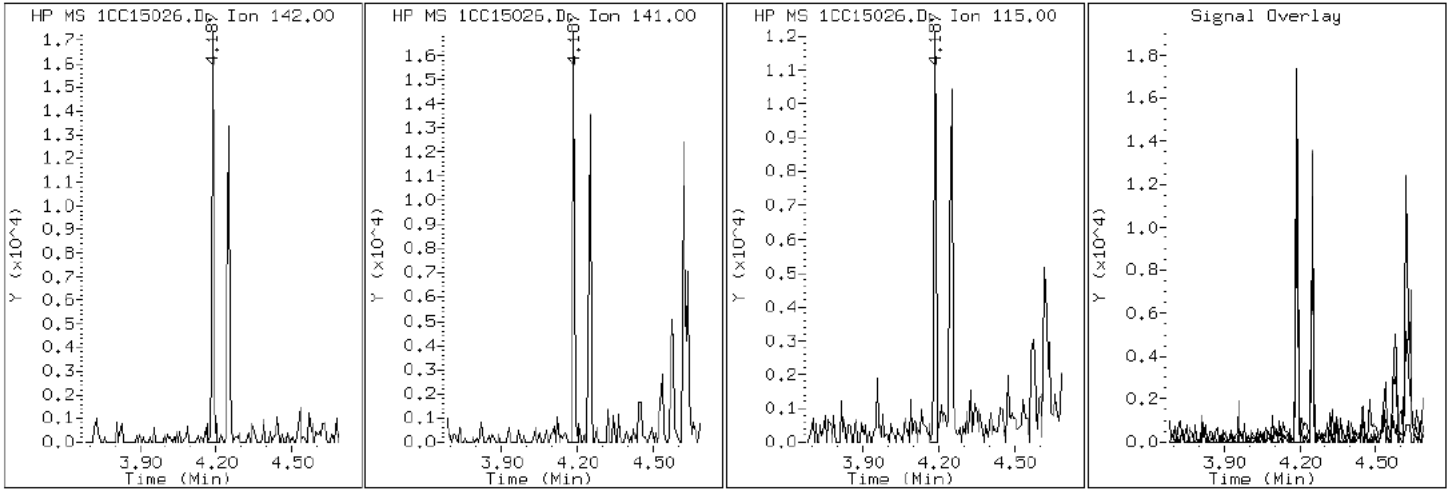
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

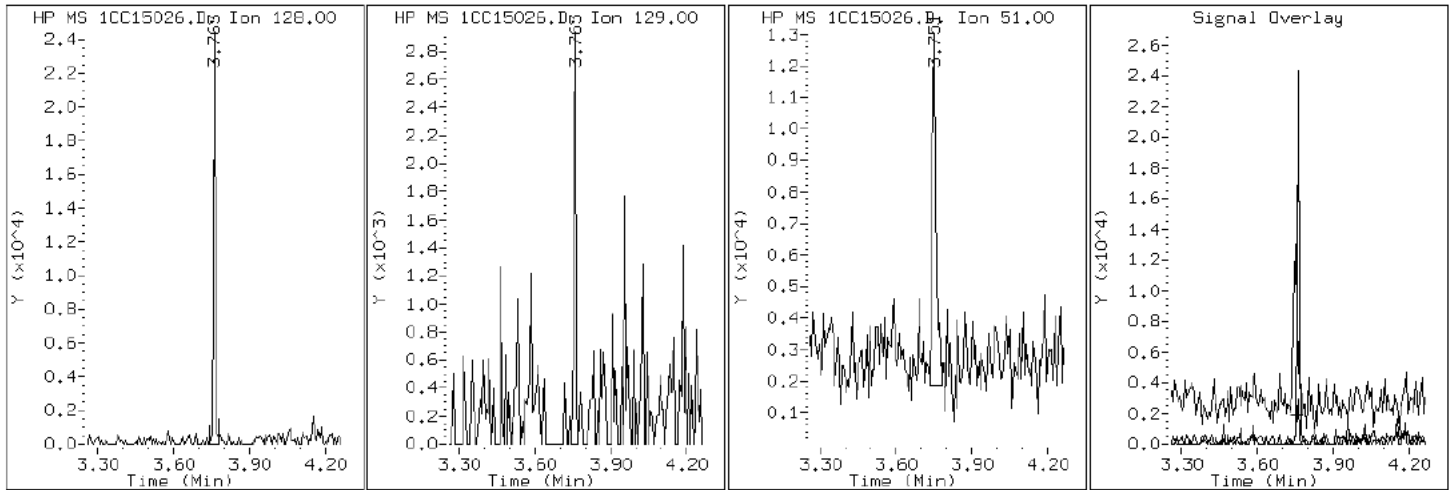
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

2 Naphthalene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

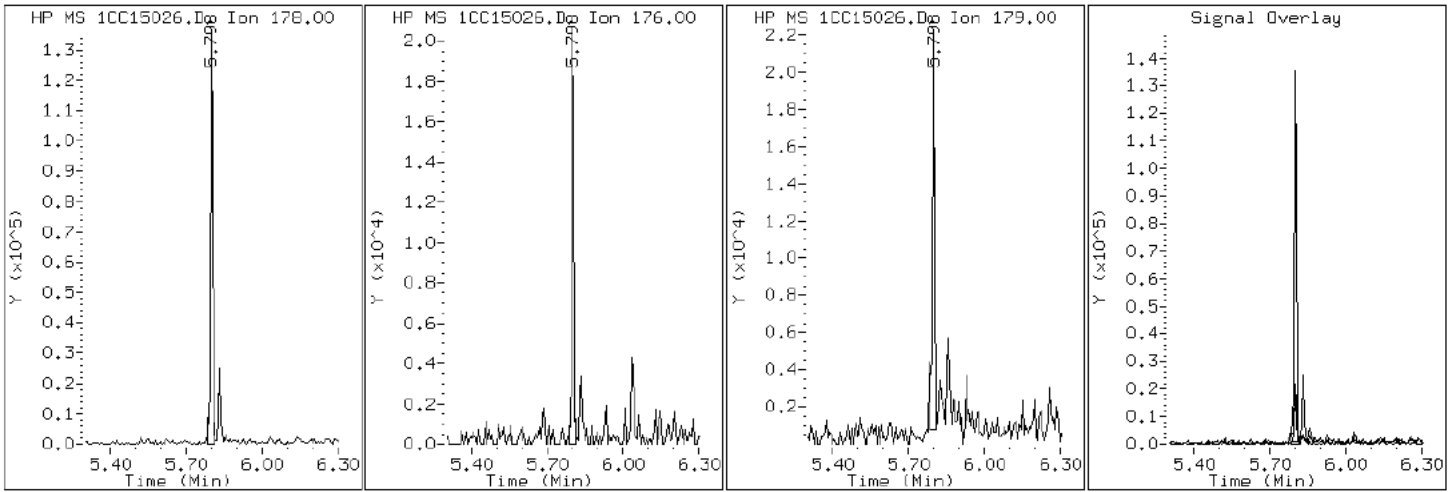
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15026.D

Date: 15-MAR-2013 22:57

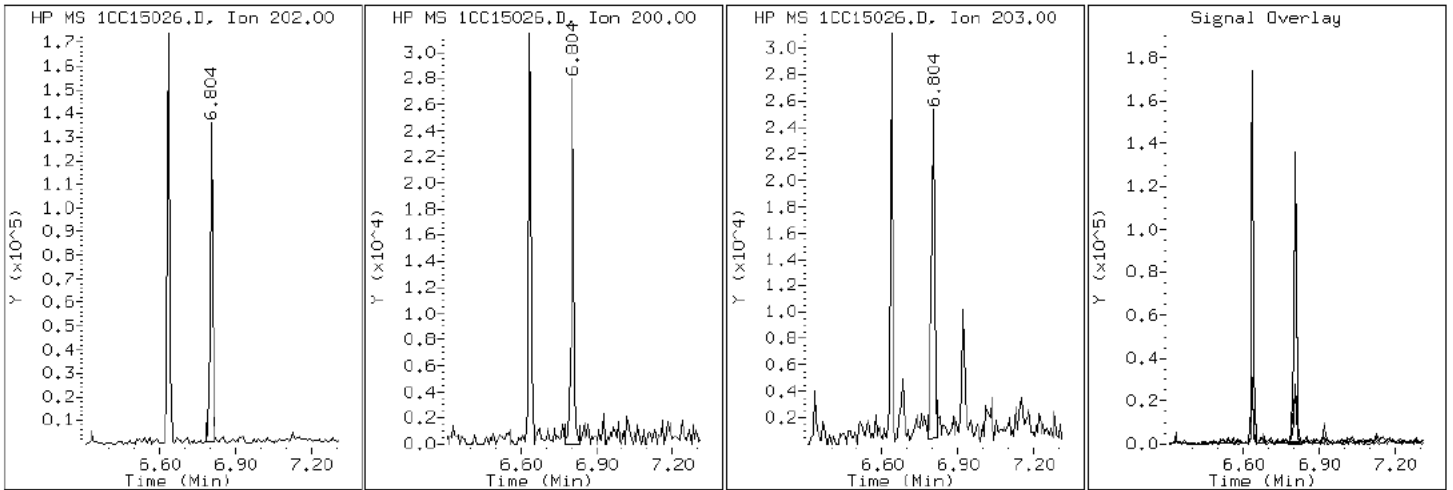
Client ID: CV0822F-CSD

Instrument: BSMC5973.i

Sample Info: 680-88118-a-37-a

Operator: SCC

16 Pyrene

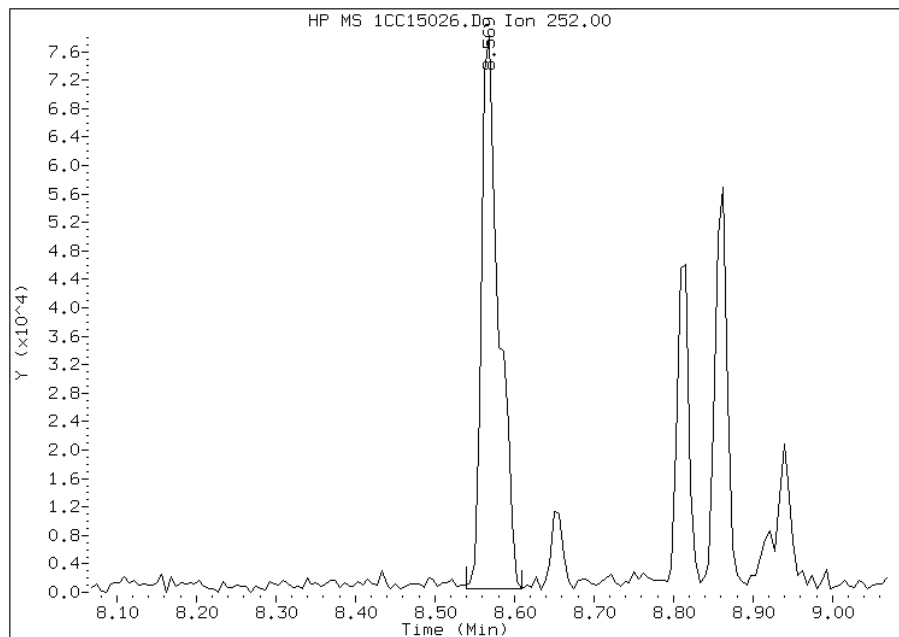


Manual Integration Report

Data File: 1CC15026.D
Inj. Date and Time: 15-MAR-2013 22:57
Instrument ID: BSMC5973.i
Client ID: CV0822F-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

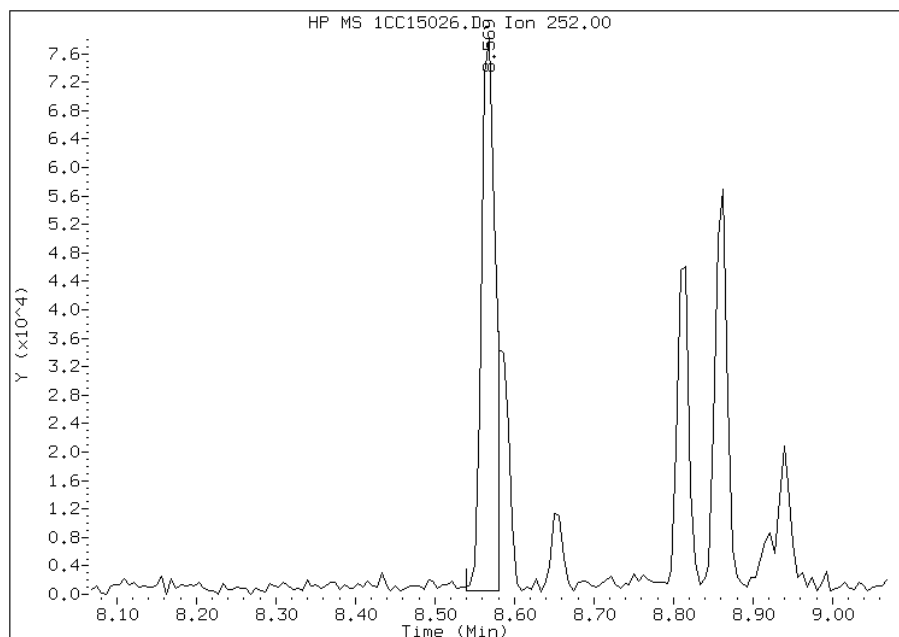
Processing Integration Results

RT: 8.57
Response: 118355
Amount: 2
Conc: 597



Manual Integration Results

RT: 8.57
Response: 94699
Amount: 1
Conc: 478



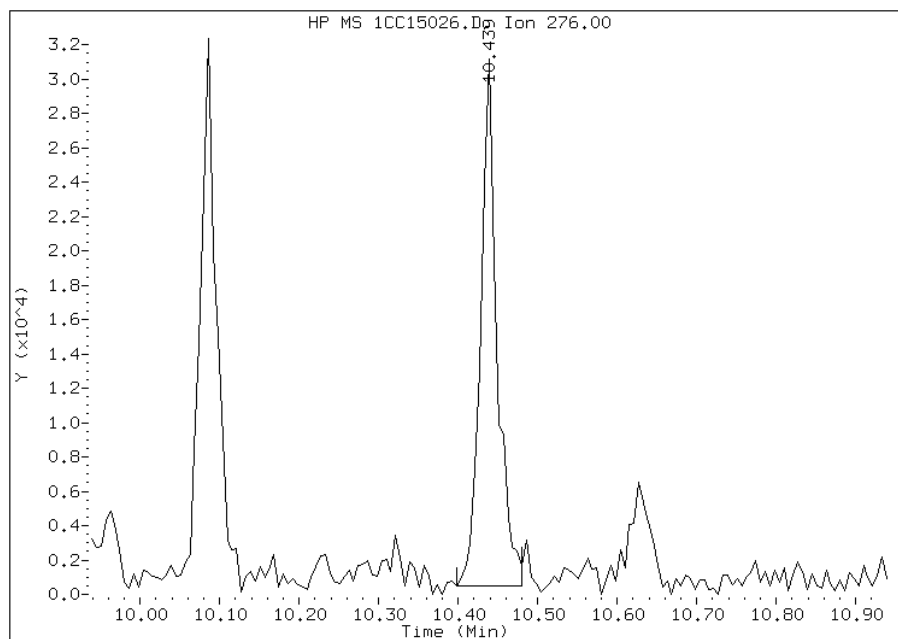
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15026.D
Inj. Date and Time: 15-MAR-2013 22:57
Instrument ID: BSMC5973.i
Client ID: CV0822F-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/20/2013

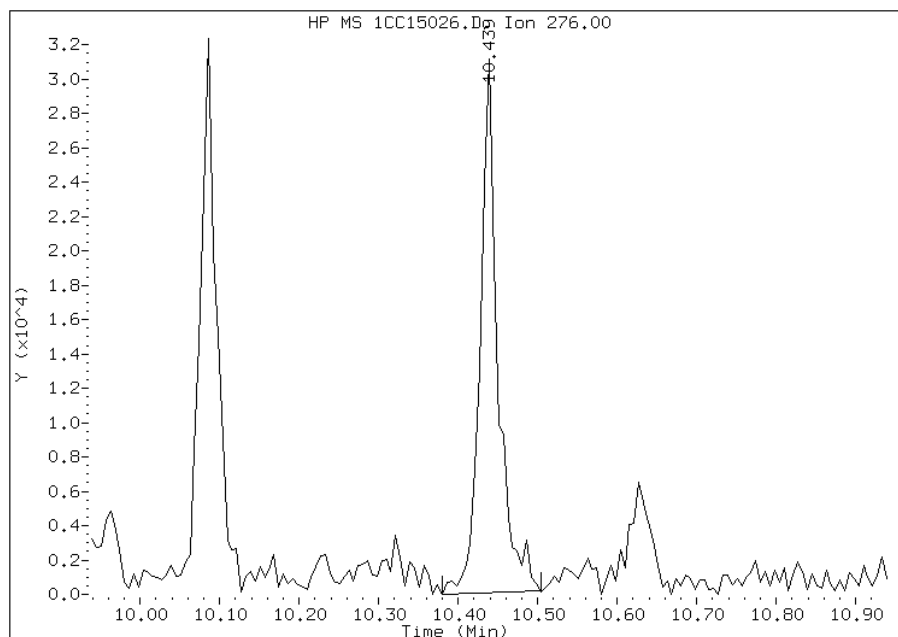
Processing Integration Results

RT: 10.44
Response: 43795
Amount: 1
Conc: 231



Manual Integration Results

RT: 10.44
Response: 47836
Amount: 1
Conc: 253



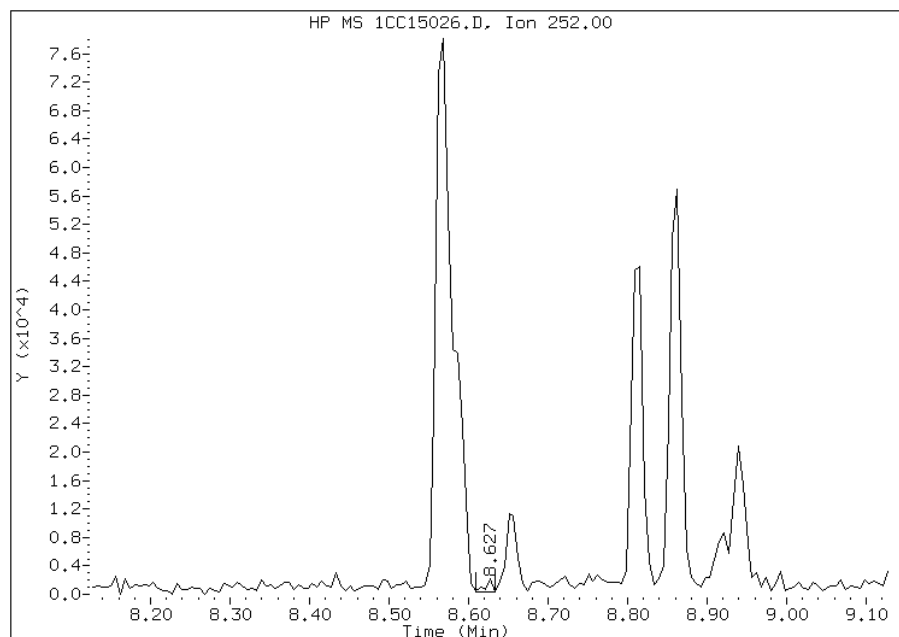
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15026.D
Inj. Date and Time: 15-MAR-2013 22:57
Instrument ID: BSMC5973.i
Client ID: CV0822F-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

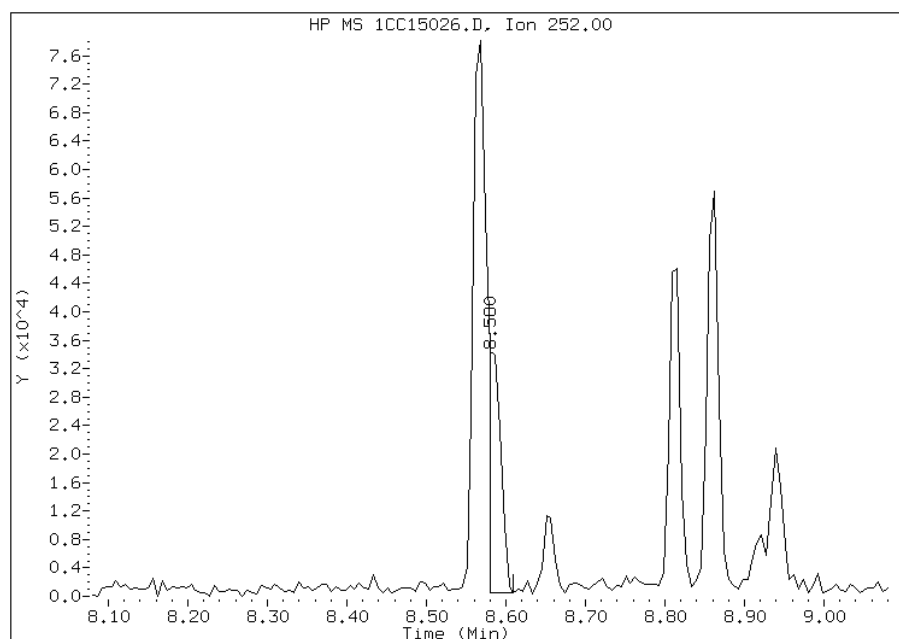
Processing Integration Results

RT: 8.63
Response: 1111
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.58
Response: 35421
Amount: 1
Conc: 174



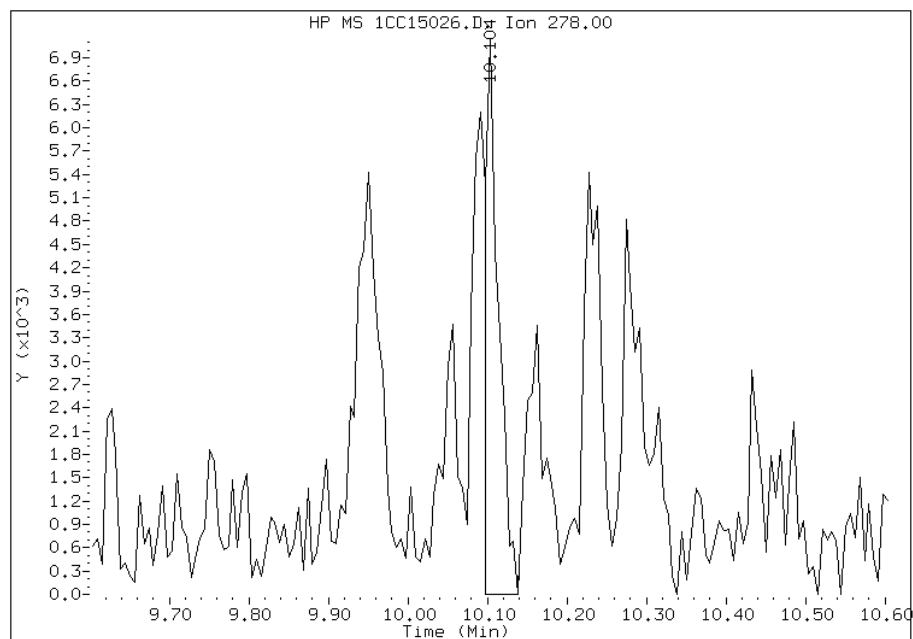
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15026.D
Inj. Date and Time: 15-MAR-2013 22:57
Instrument ID: BSMC5973.i
Client ID: CV0822F-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

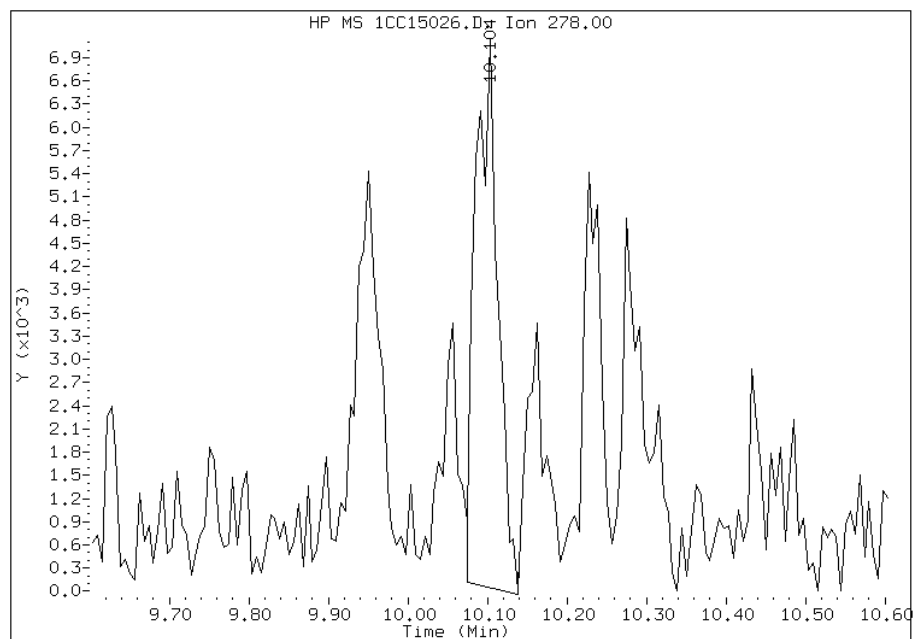
Processing Integration Results

RT: 10.10
Response: 8396
Amount: 0
Conc: 47



Manual Integration Results

RT: 10.10
Response: 13996
Amount: 0
Conc: 79



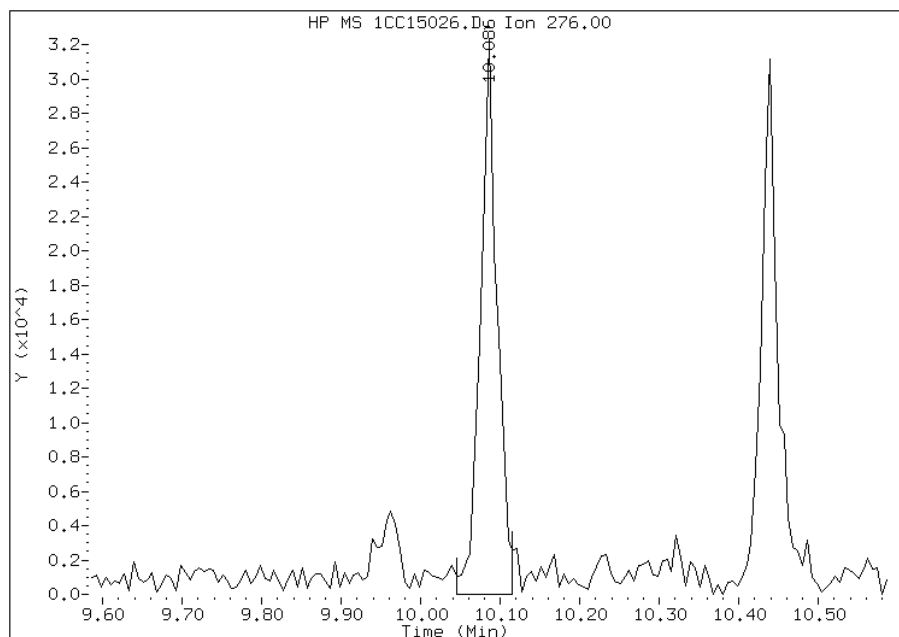
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15026.D
Inj. Date and Time: 15-MAR-2013 22:57
Instrument ID: BSMC5973.i
Client ID: CV0822F-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

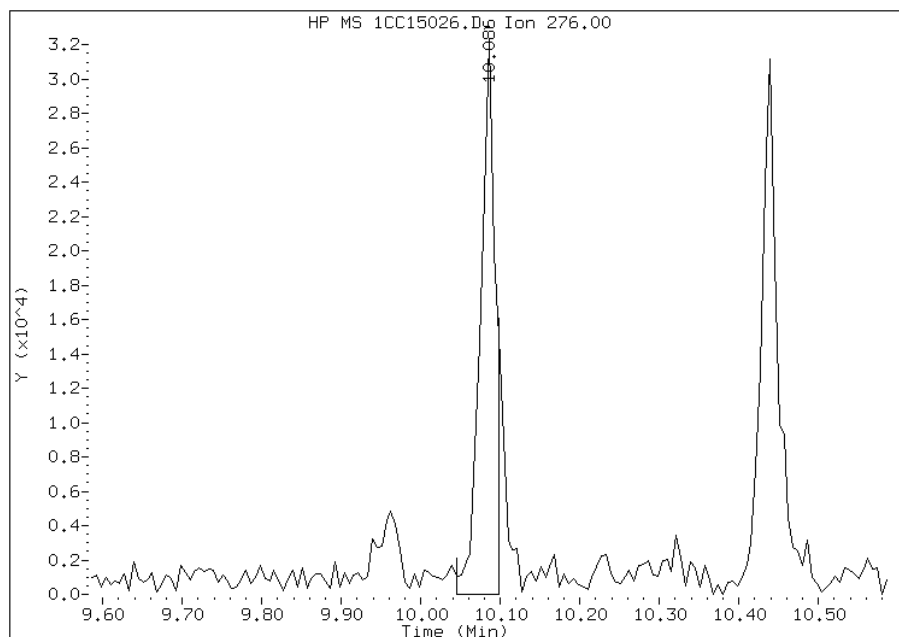
Processing Integration Results

RT: 10.09
Response: 47533
Amount: 1
Conc: 263



Manual Integration Results

RT: 10.09
Response: 42315
Amount: 1
Conc: 234



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0911A-CS Lab Sample ID: 680-88118-38
 Matrix: Solid Lab File ID: 1CC15027.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 15:10
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.96(g) Date Analyzed: 03/15/2013 23:16
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 31.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	58	U	58	7.3
120-12-7	Anthracene	14		12	6.1
56-55-3	Benzo[a]anthracene	79		12	5.7
50-32-8	Benzo[a]pyrene	64		15	7.6
205-99-2	Benzo[b]fluoranthene	120		18	8.9
191-24-2	Benzo[g,h,i]perylene	60		29	6.4
207-08-9	Benzo[k]fluoranthene	40		12	5.2
218-01-9	Chrysene	140		13	6.6
53-70-3	Dibenz(a,h)anthracene	20	J	29	6.0
206-44-0	Fluoranthene	110		29	5.8
86-73-7	Fluorene	8.3	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	50		29	10
90-12-0	1-Methylnaphthalene	99		58	6.4
91-57-6	2-Methylnaphthalene	110		58	10
91-20-3	Naphthalene	83		58	6.4
85-01-8	Phenanthrene	140		12	5.7
129-00-0	Pyrene	130		29	5.4

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15027.D
 Lab Smp Id: 680-88118-A-38-A Client Smp ID: CV0911A-CS
 Inj Date : 15-MAR-2013 23:16
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-38-a
 Misc Info : 680-88118-A-38-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	14.960	Weight Extracted
M	31.180	% 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		3.751	3.751	(1.000)	1237330	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	941093	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1677510	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	143657	5.67197	550.9218	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1787251	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1702788	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	27448	0.85209	82.7645	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	24155	1.12416	109.1908	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	19897	1.01673	98.7557	
9 Fluorene	166		5.174	5.174	(1.071)	2541	0.08520	8.2752(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	70027	1.44367	140.2247	
12 Anthracene	178		5.833	5.839	(1.008)	6818	0.14372	13.9598	
13 Carbazole	167		5.945	5.945	(1.027)	7637	0.18110	17.5905(Q)	
15 Fluoranthene	202		6.639	6.639	(1.147)	62657	1.17953	114.5689	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.804	6.810	(0.880)	64557	1.34410	130.5535
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	42099	0.81613	79.2714
19 Chrysene	228	7.745	7.751	(1.002)	75111	1.45501	141.3262
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	52724	1.18480	115.0807
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	18958	0.41529	40.3371(Q)
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	28693	0.66382	64.4769
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	20733	0.50989	49.5258(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	8371	0.21047	20.4430(MH)
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	26486	0.62268	60.4810

QC Flag Legend

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

Data File: 1CC15027.D

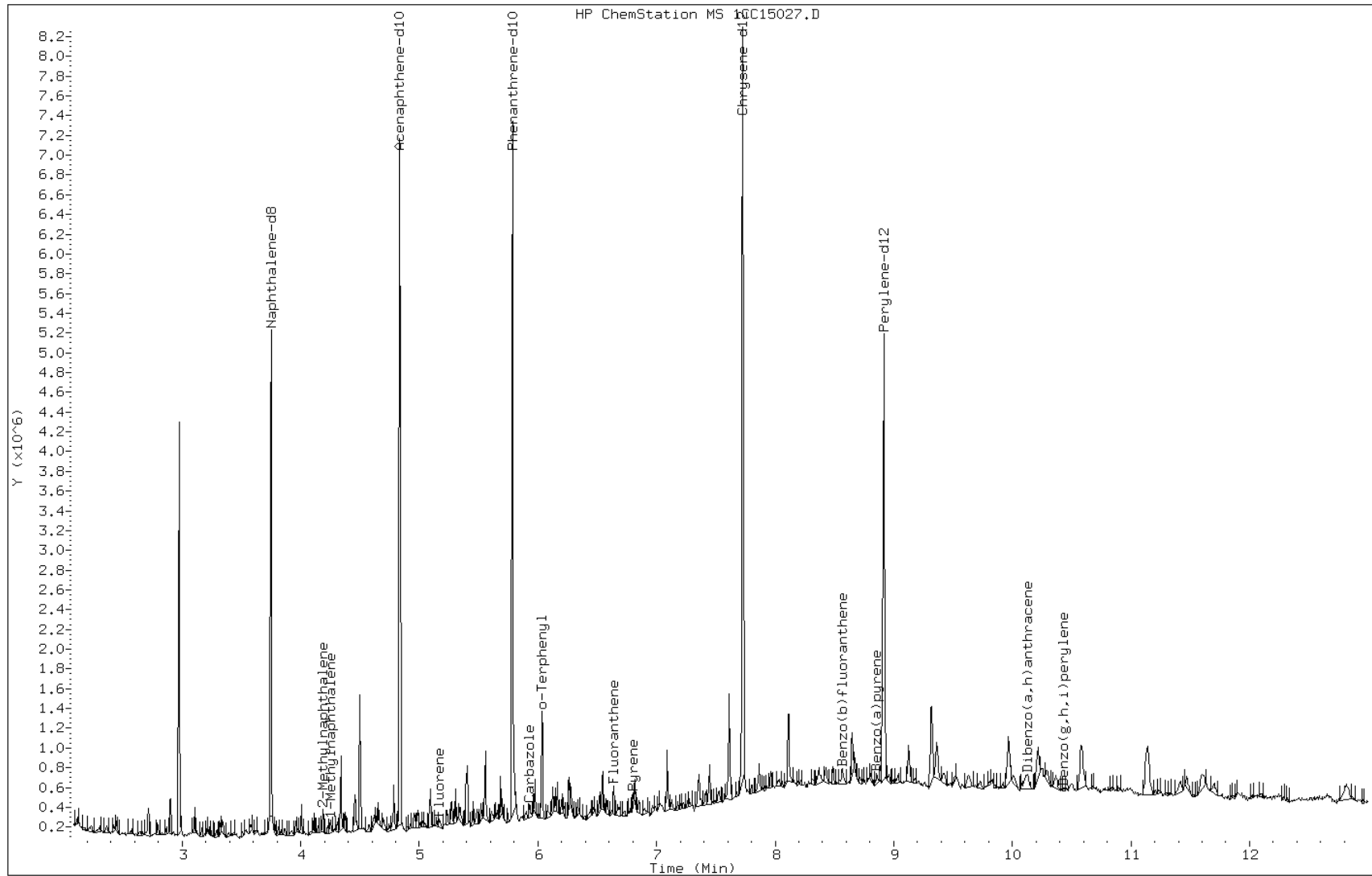
Date: 15-MAR-2013 23:16

Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

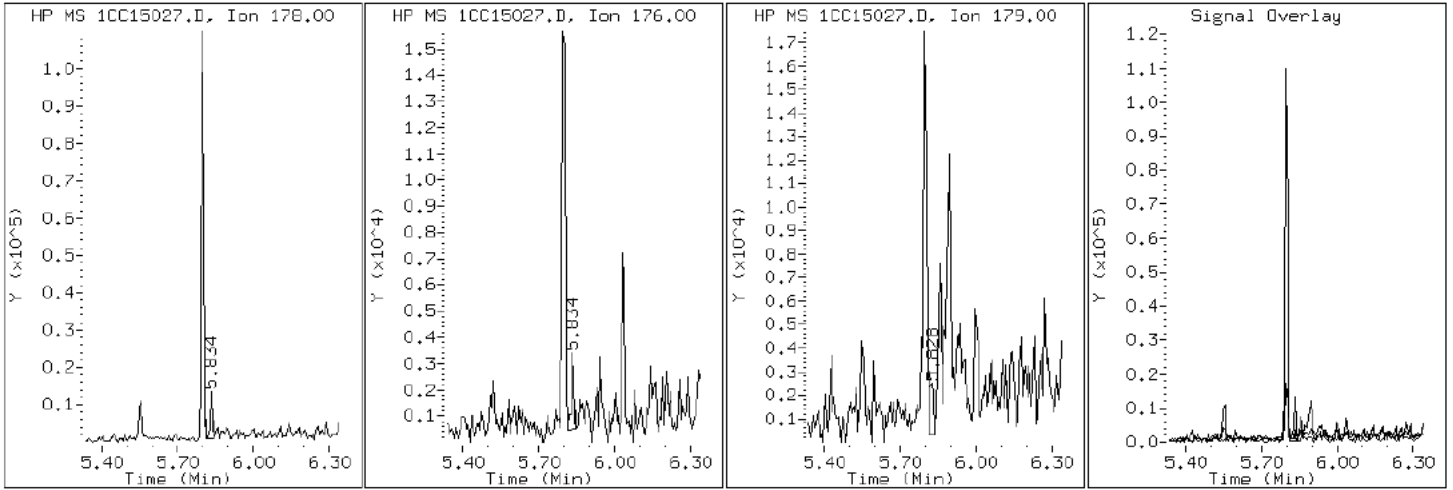
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

12 Anthracene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

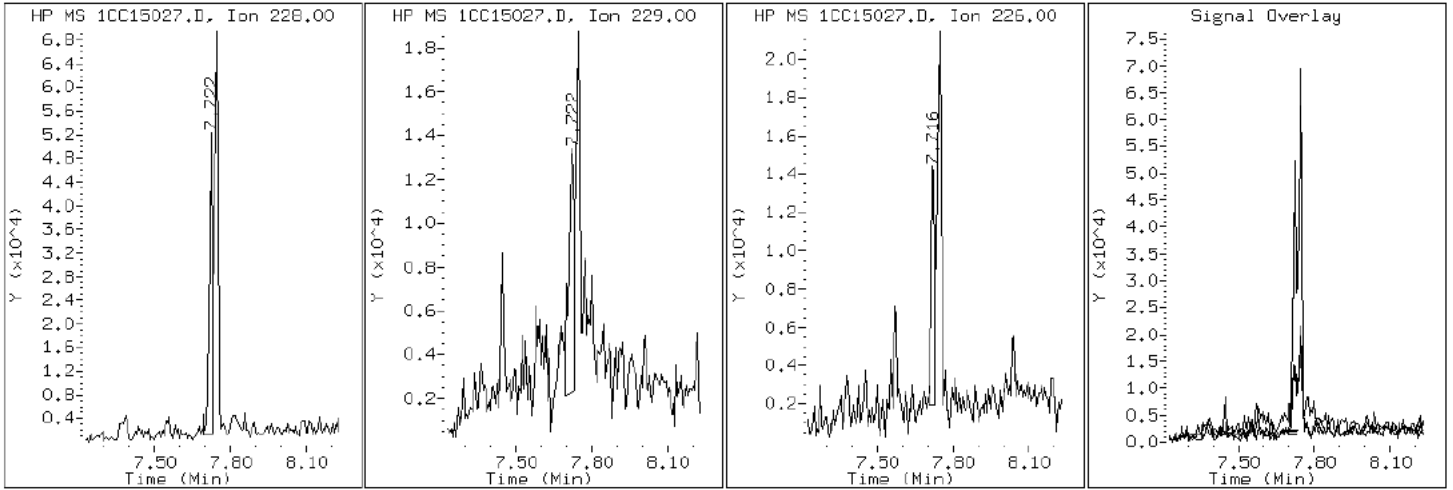
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

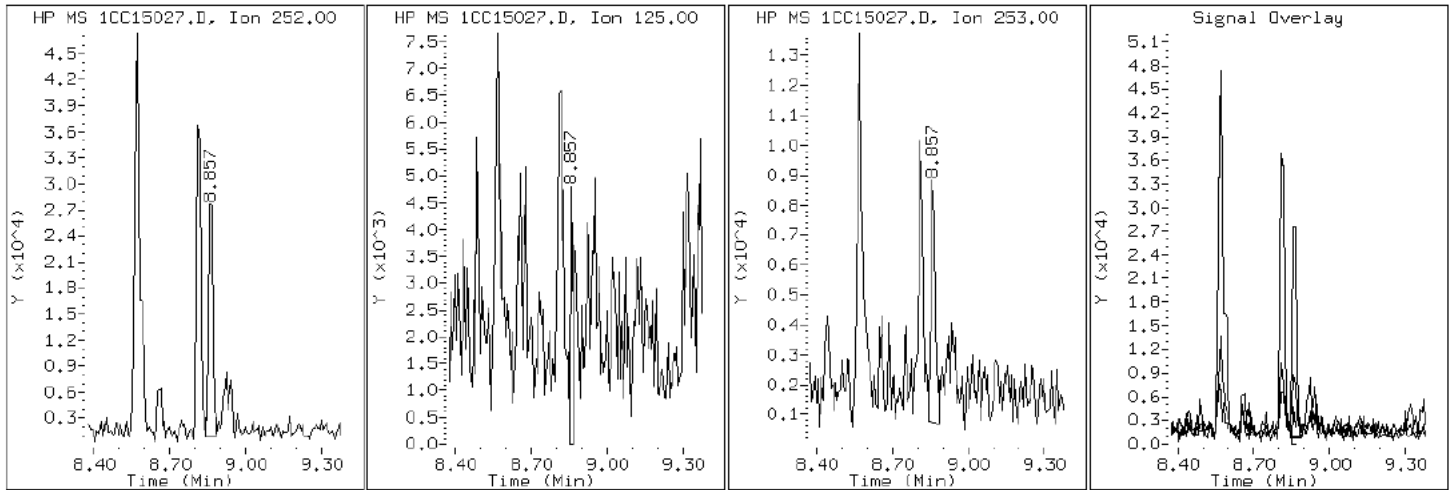
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

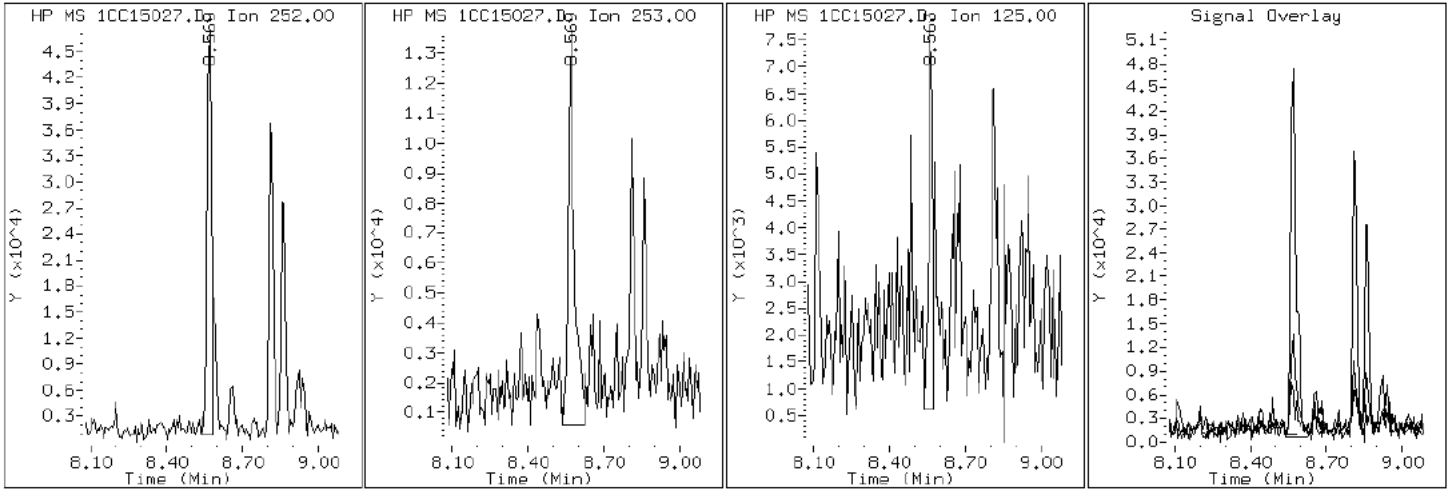
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

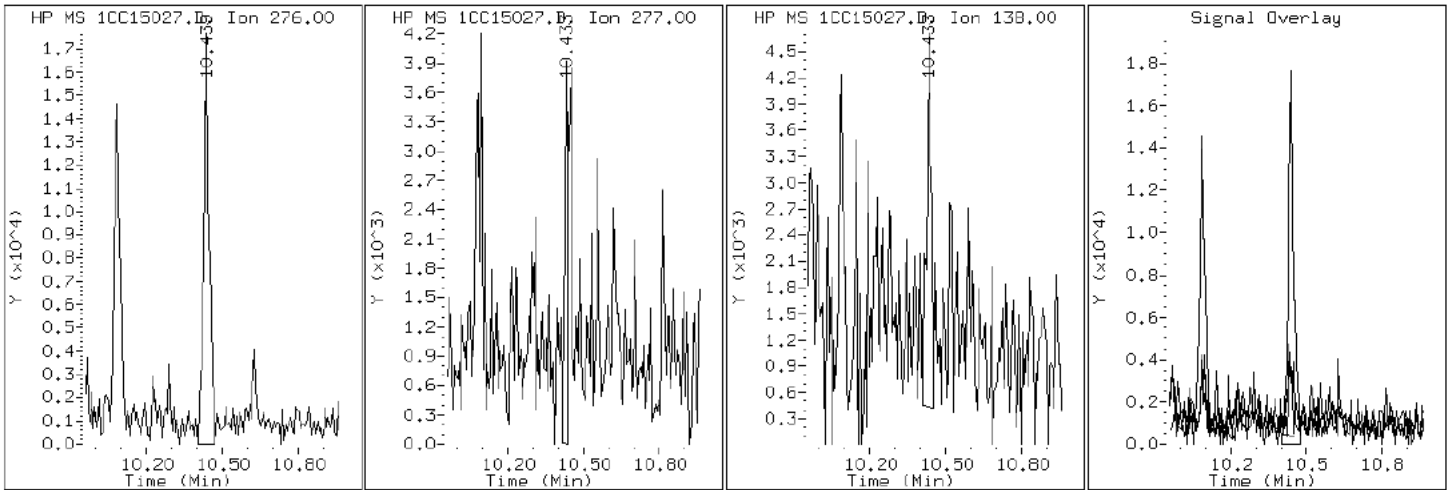
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

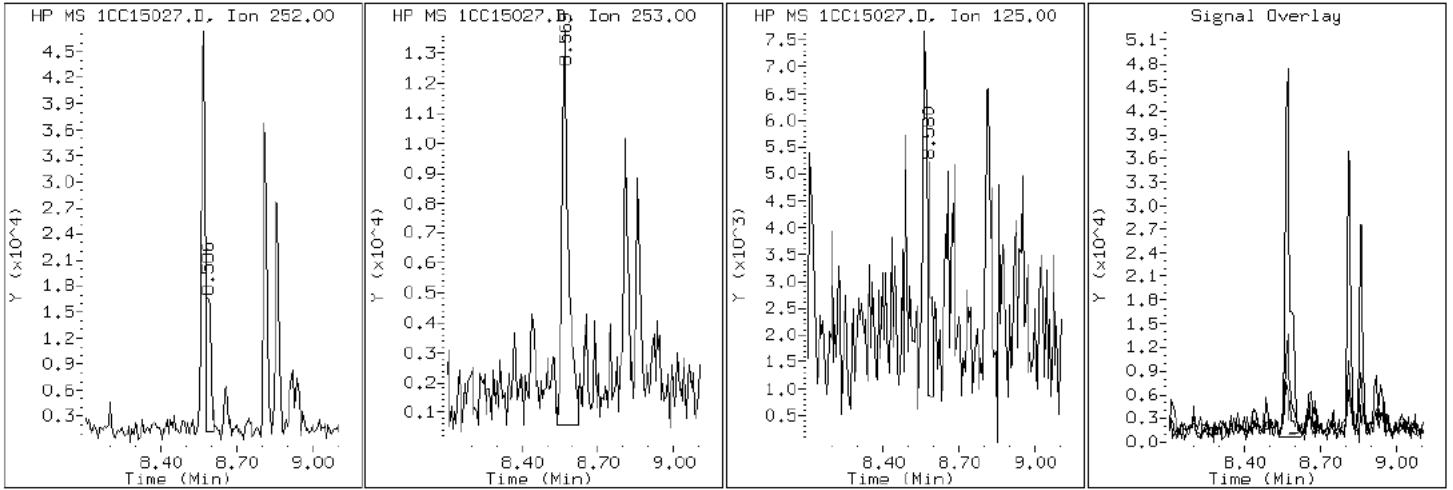
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

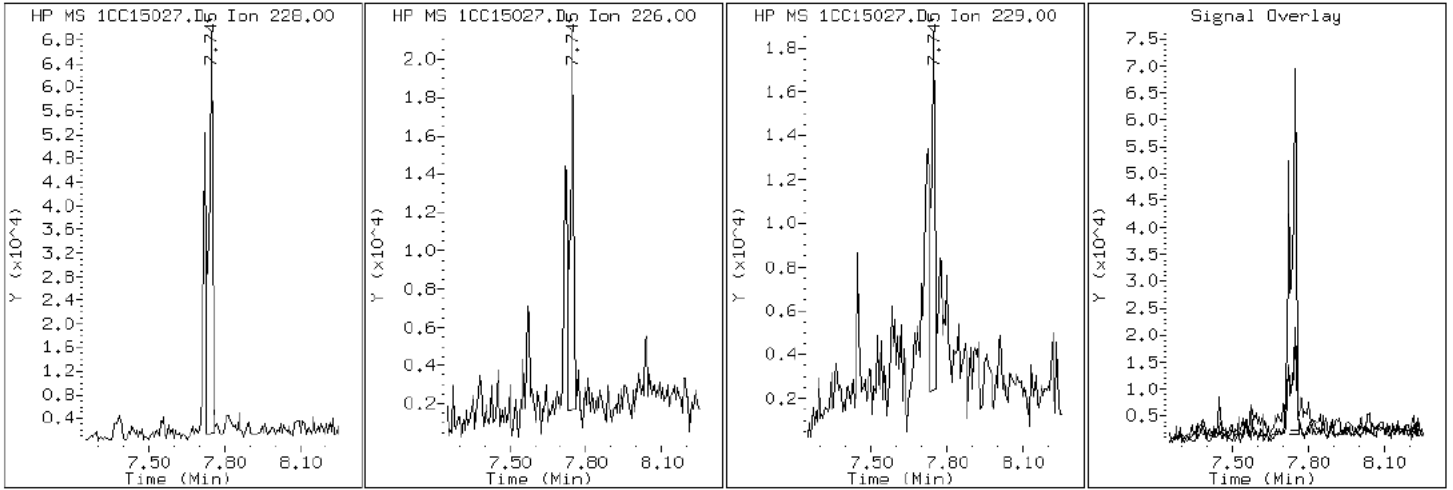
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

19 Chrysene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

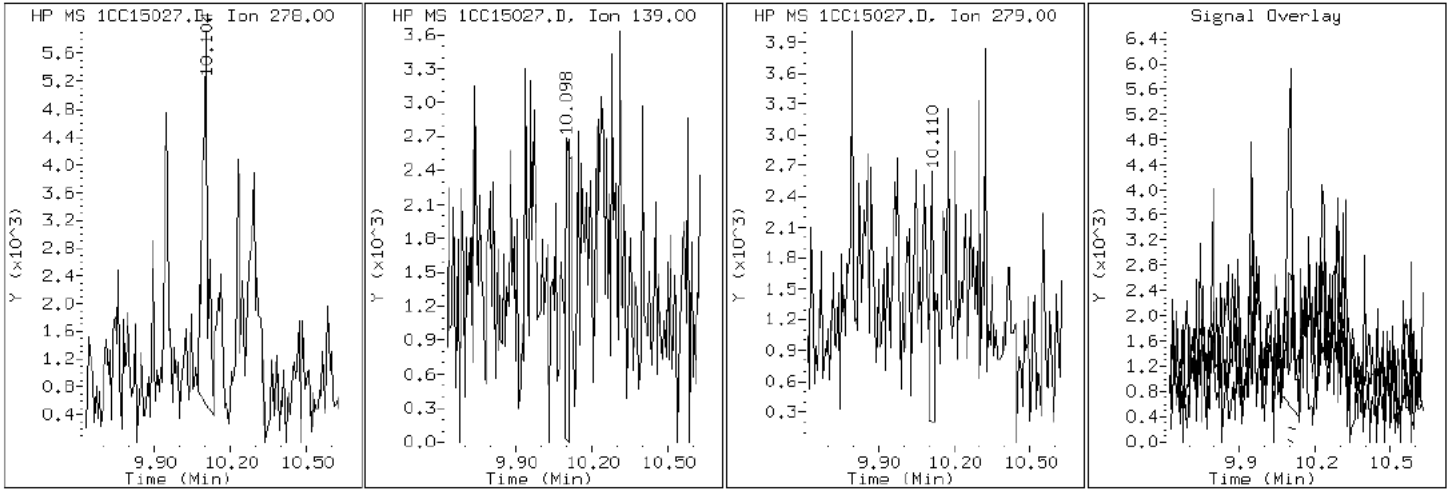
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

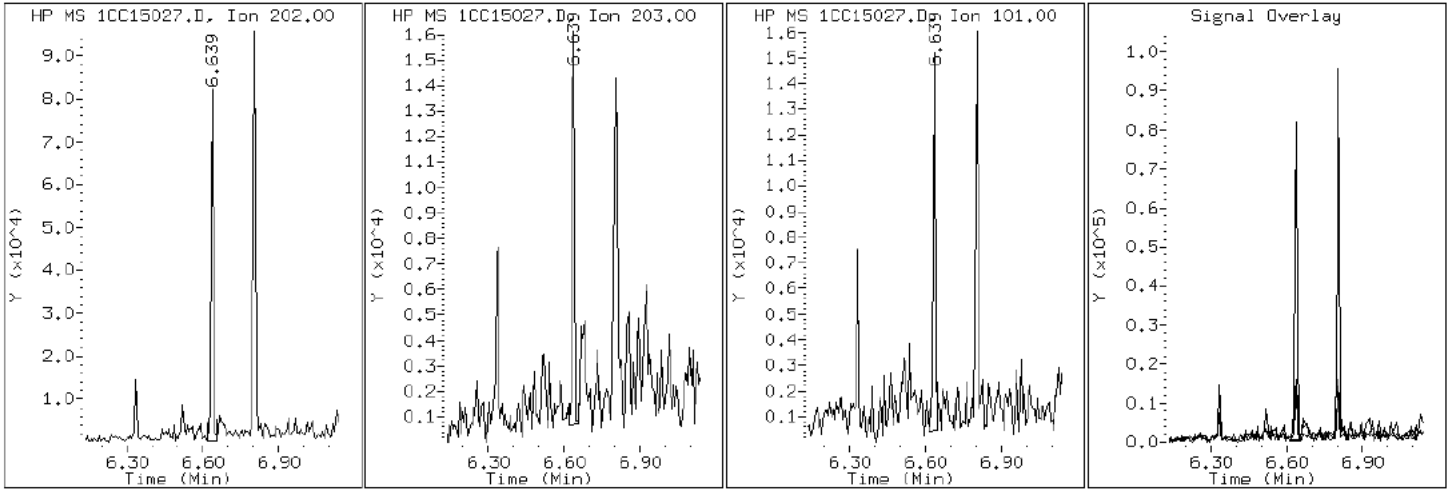
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

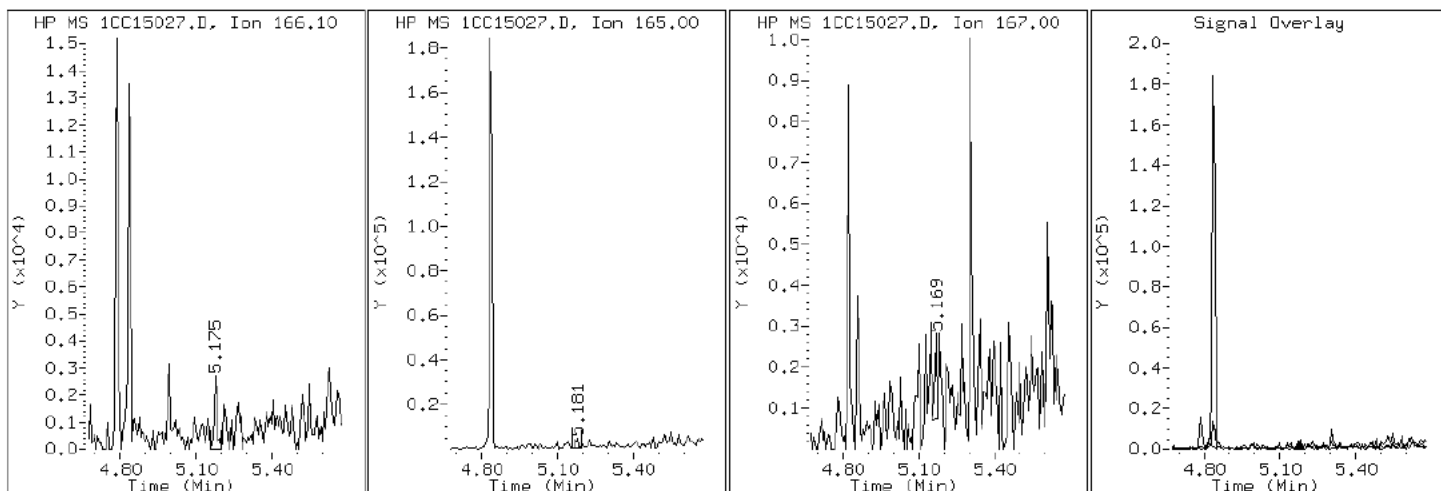
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

9 Fluorene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

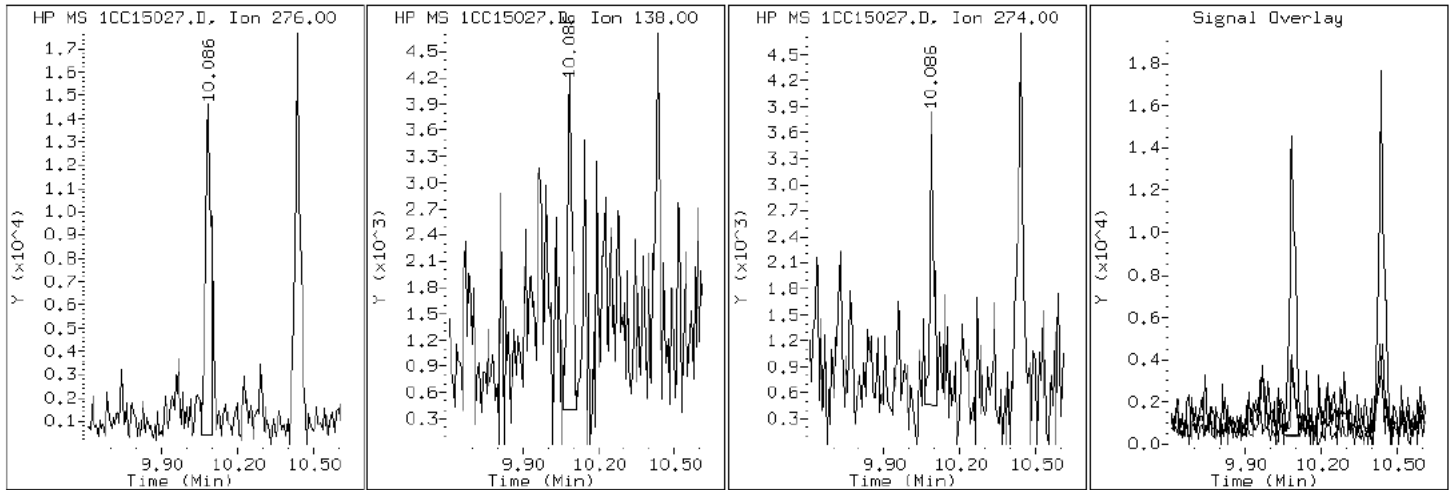
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

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



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

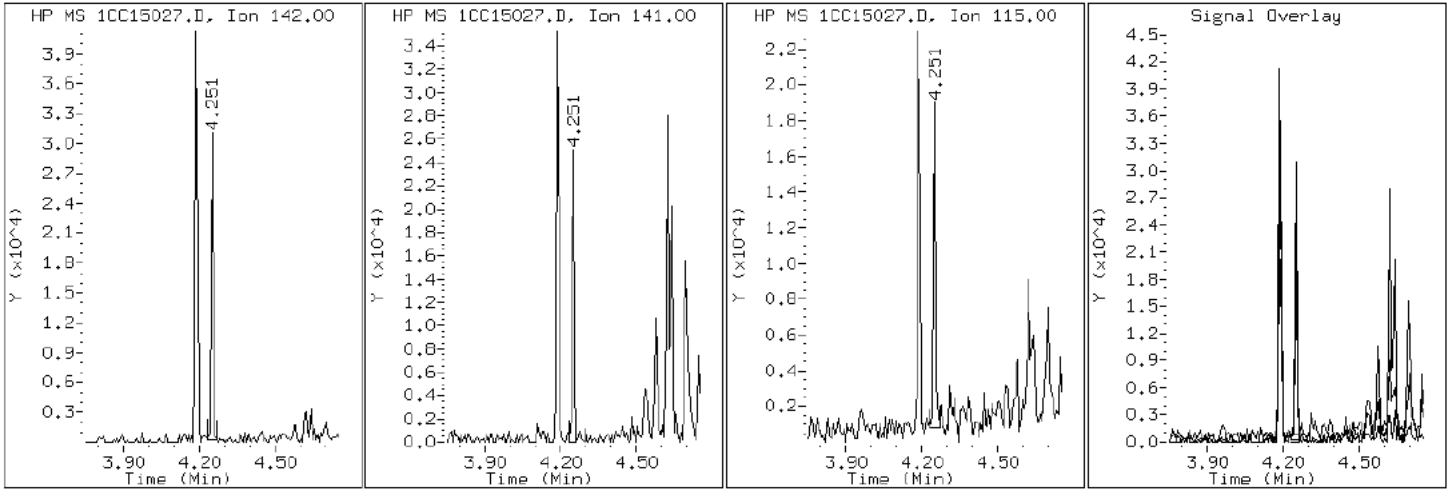
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

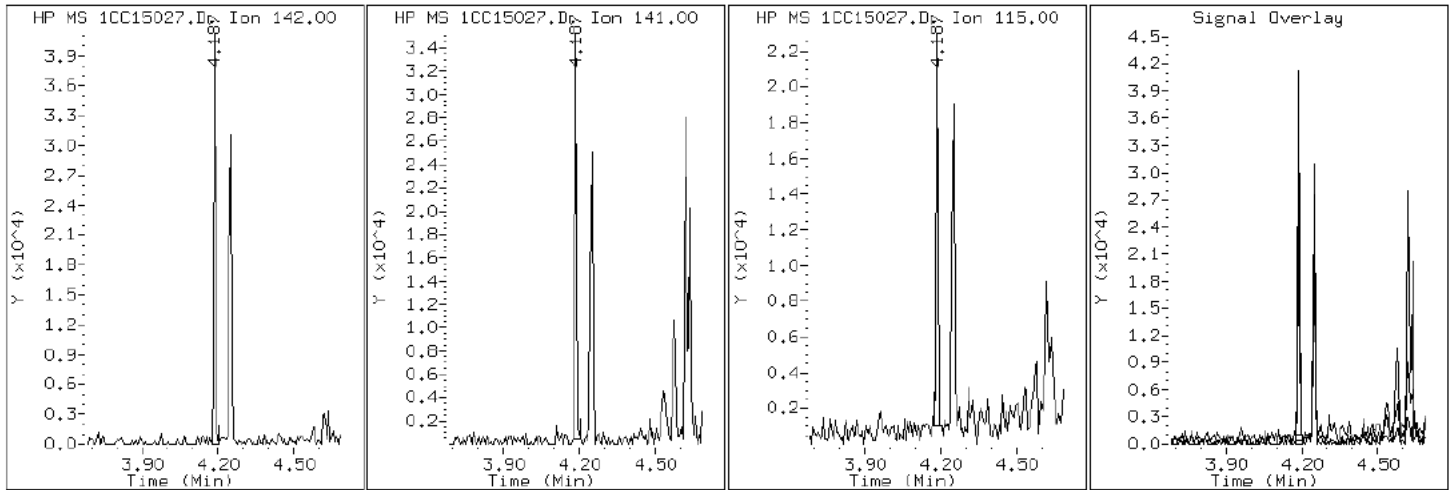
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

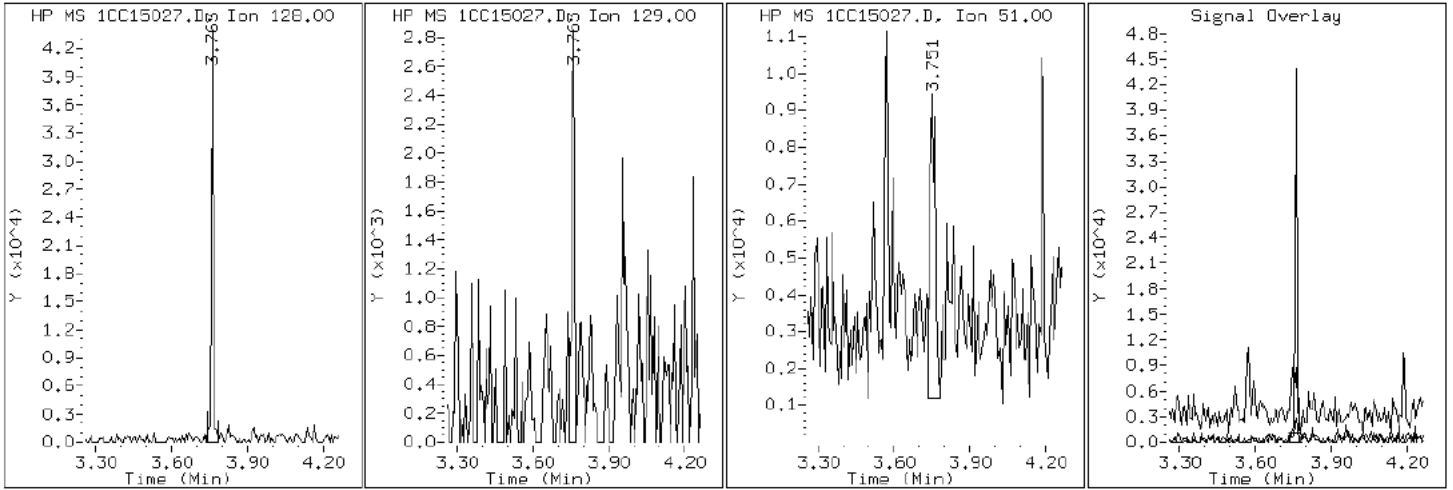
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

2 Naphthalene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

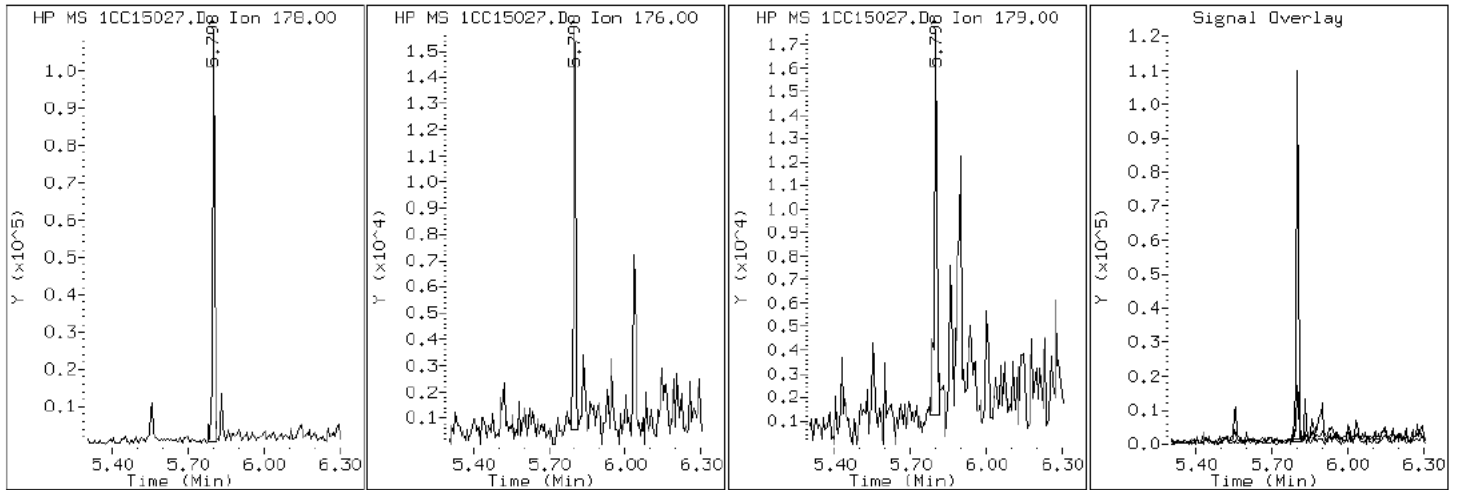
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15027.D

Date: 15-MAR-2013 23:16

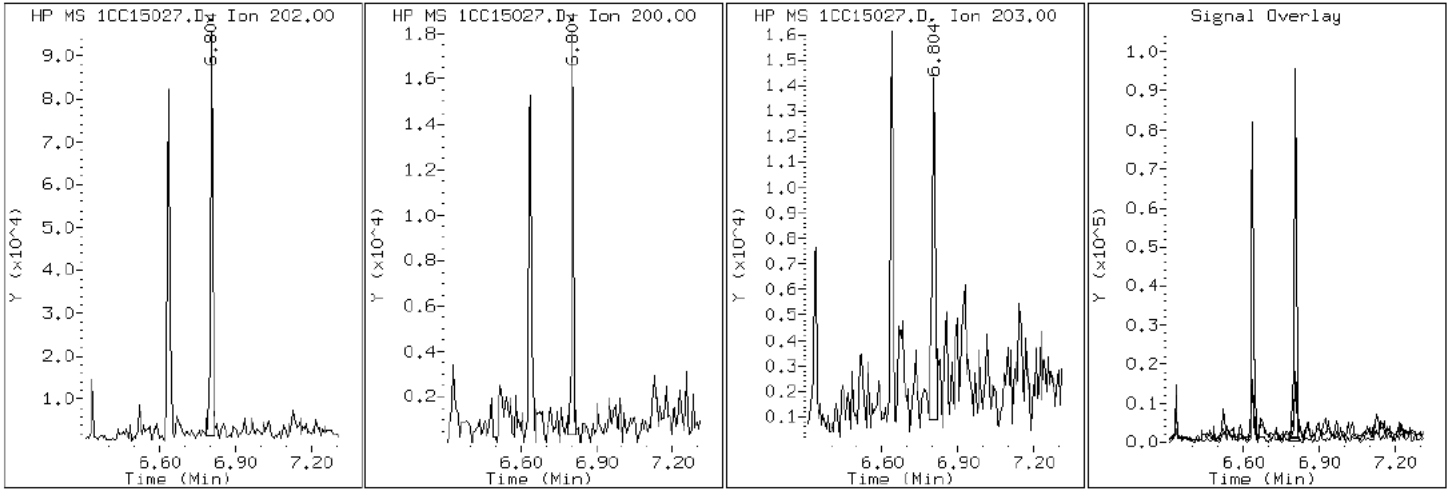
Client ID: CV0911A-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-38-a

Operator: SCC

16 Pyrene

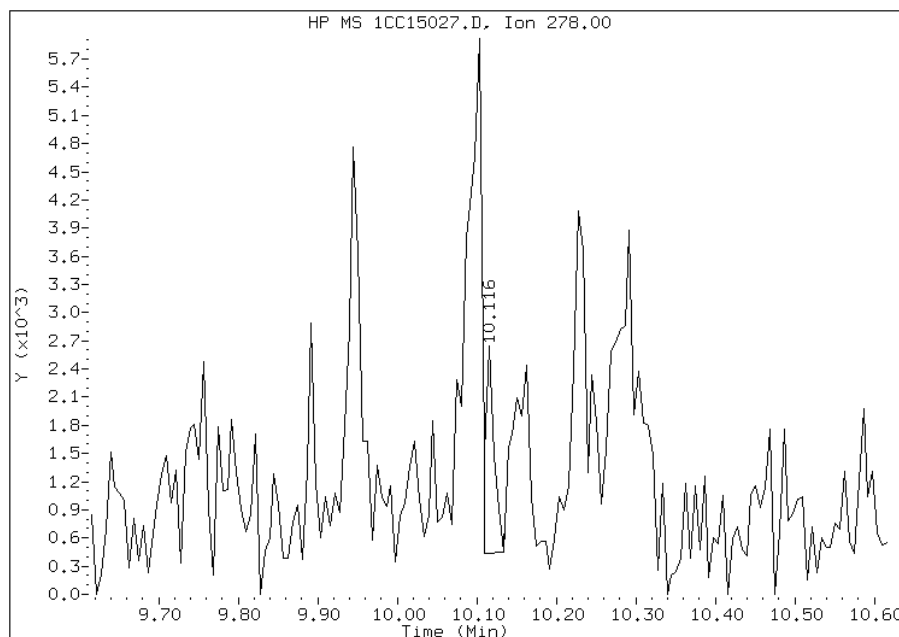


Manual Integration Report

Data File: 1CC15027.D
Inj. Date and Time: 15-MAR-2013 23:16
Instrument ID: BSMC5973.i
Client ID: CV0911A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

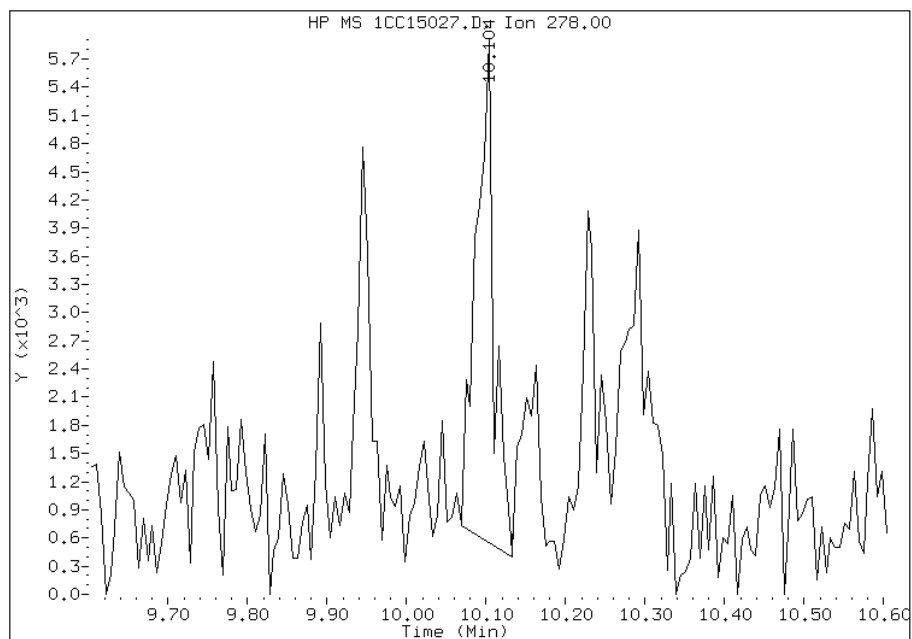
Processing Integration Results

RT: 10.12
Response: 1685
Amount: 0
Conc: 4



Manual Integration Results

RT: 10.10
Response: 8371
Amount: 0
Conc: 20



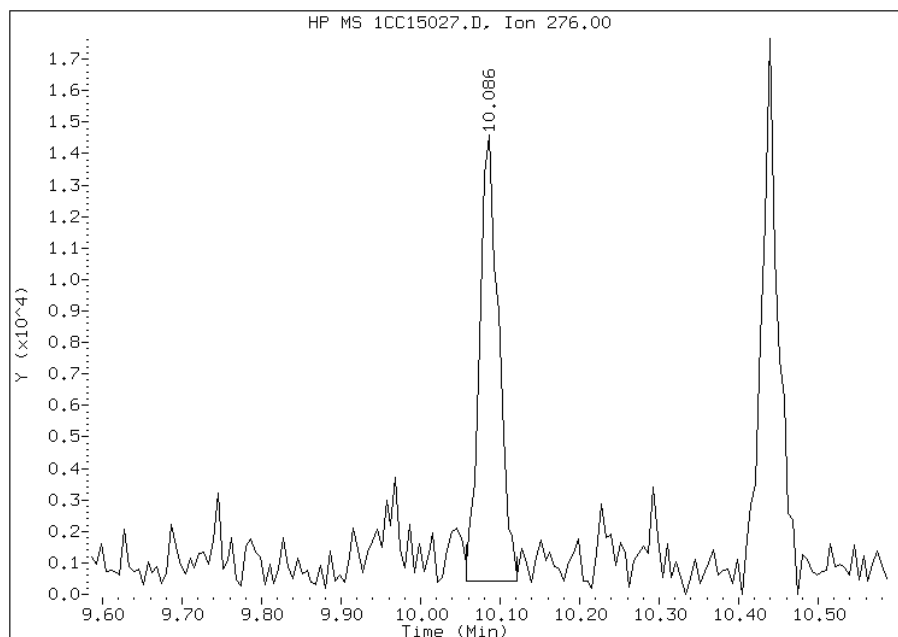
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15027.D
Inj. Date and Time: 15-MAR-2013 23:16
Instrument ID: BSMC5973.i
Client ID: CV0911A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

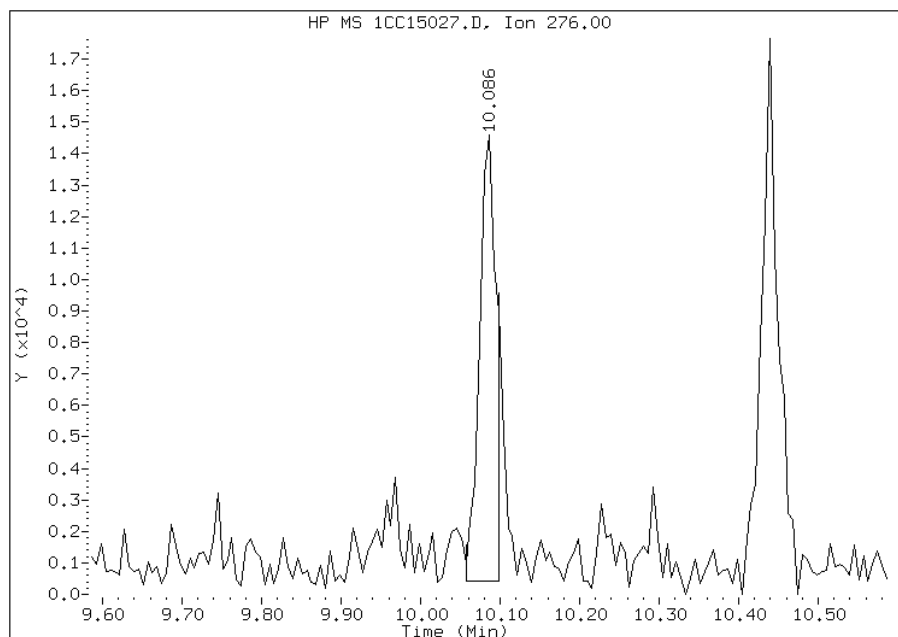
Processing Integration Results

RT: 10.09
Response: 23538
Amount: 1
Conc: 56



Manual Integration Results

RT: 10.09
Response: 20733
Amount: 1
Conc: 50



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: CV0911B-CS Lab Sample ID: 680-88118-39
 Matrix: Solid Lab File ID: 1CC15028.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 15:20
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.99(g) Date Analyzed: 03/15/2013 23:34
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	7.7	J	55	6.9
120-12-7	Anthracene	12		12	5.8
56-55-3	Benzo[a]anthracene	50		11	5.4
50-32-8	Benzo[a]pyrene	44		14	7.2
205-99-2	Benzo[b]fluoranthene	70		17	8.4
191-24-2	Benzo[g,h,i]perylene	44		28	6.1
207-08-9	Benzo[k]fluoranthene	26		11	5.0
218-01-9	Chrysene	89		12	6.2
53-70-3	Dibenz(a,h)anthracene	13	J	28	5.7
206-44-0	Fluoranthene	66		28	5.5
86-73-7	Fluorene	7.7	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	27	J	28	9.8
90-12-0	1-Methylnaphthalene	83		55	6.1
91-57-6	2-Methylnaphthalene	120		55	9.8
91-20-3	Naphthalene	81		55	6.1
85-01-8	Phenanthrene	110		11	5.4
129-00-0	Pyrene	62		28	5.1

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15028.D
 Lab Smp Id: 680-88118-A-39-A Client Smp ID: CV0911B-CS
 Inj Date : 15-MAR-2013 23:34
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-39-a
 Misc Info : 680-88118-A-39-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 28
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	27.442	% 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		3.751	3.751	(1.000)	1334804	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	1020429	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1804542	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	148526	5.45139	501.2100	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1919970	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1778389	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	30591	0.88032	80.9377	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	31467	1.35752	124.8126	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	19113	0.90535	83.2391	
5 Acenaphthylene	152		4.751	4.751	(0.983)	3455	0.08398	7.7213	
9 Fluorene	166		5.174	5.174	(1.071)	2700	0.08349	7.6761(Q)	
11 Phenanthrene	178		5.798	5.804	(1.002)	64339	1.23303	113.3672	
12 Anthracene	178		5.833	5.839	(1.008)	6420	0.12581	11.5667	
13 Carbazole	167		5.939	5.945	(1.026)	6495	0.14318	13.1640(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.639	6.639	(1.147)	40951	0.71664	65.8894
16 Pyrene	202	6.804	6.810	(0.880)	35004	0.67842	62.3749
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	30284	0.54650	50.2464
19 Chrysene	228	7.745	7.751	(1.002)	53491	0.96457	88.6843
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	35310	0.75975	69.8525
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	13642	0.28613	26.3075
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	21775	0.48235	44.3482
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	12690	0.29882	27.4739(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.127	(1.133)	6095	0.14673	13.4906(MH)
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	21211	0.47747	43.8989

QC Flag Legend

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

Data File: 1CC15028.D

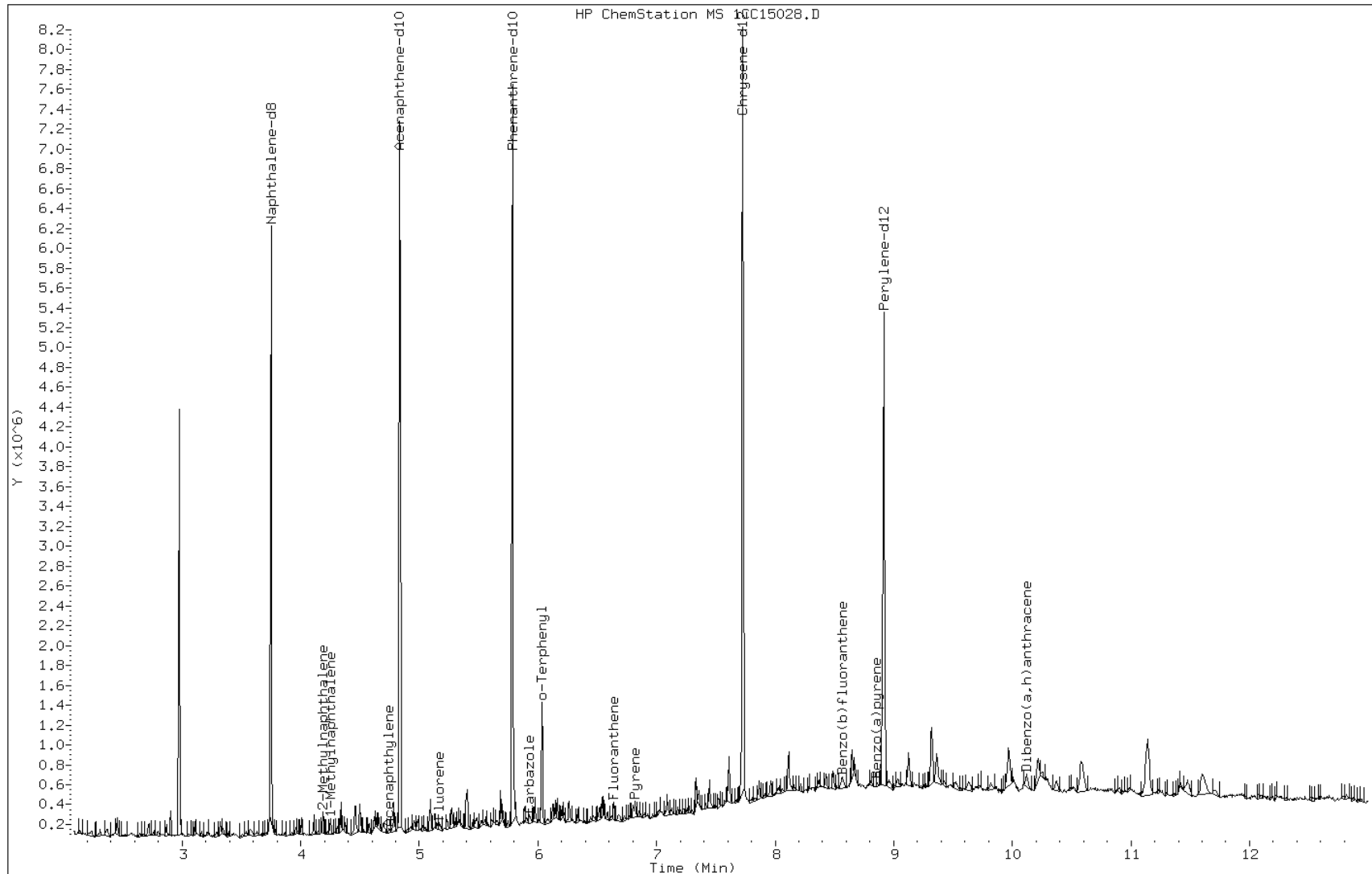
Date: 15-MAR-2013 23:34

Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

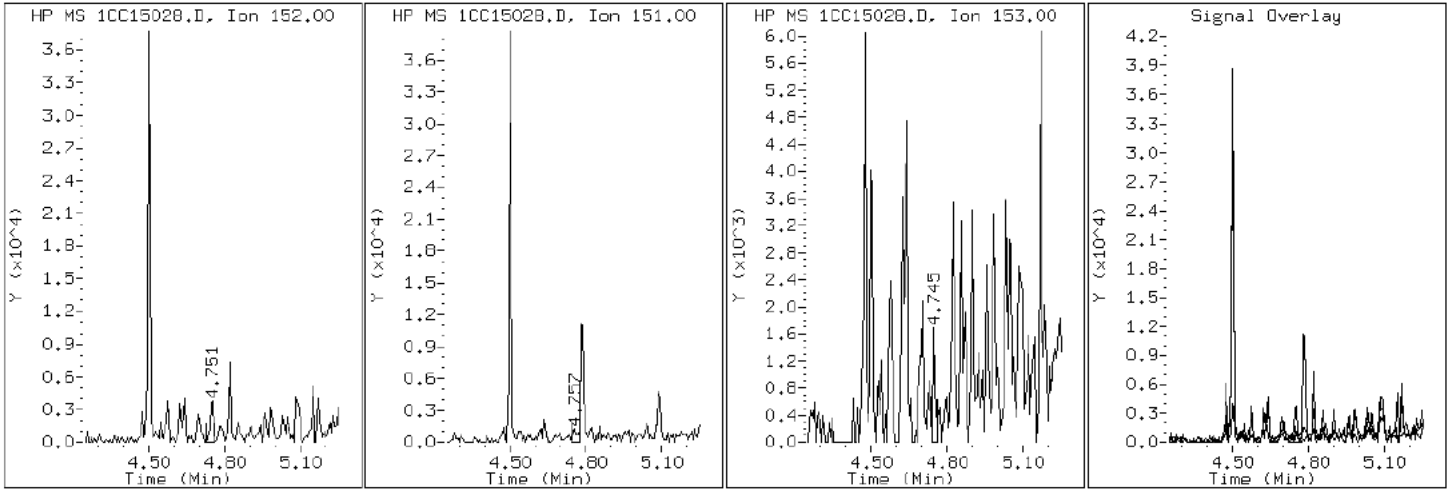
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

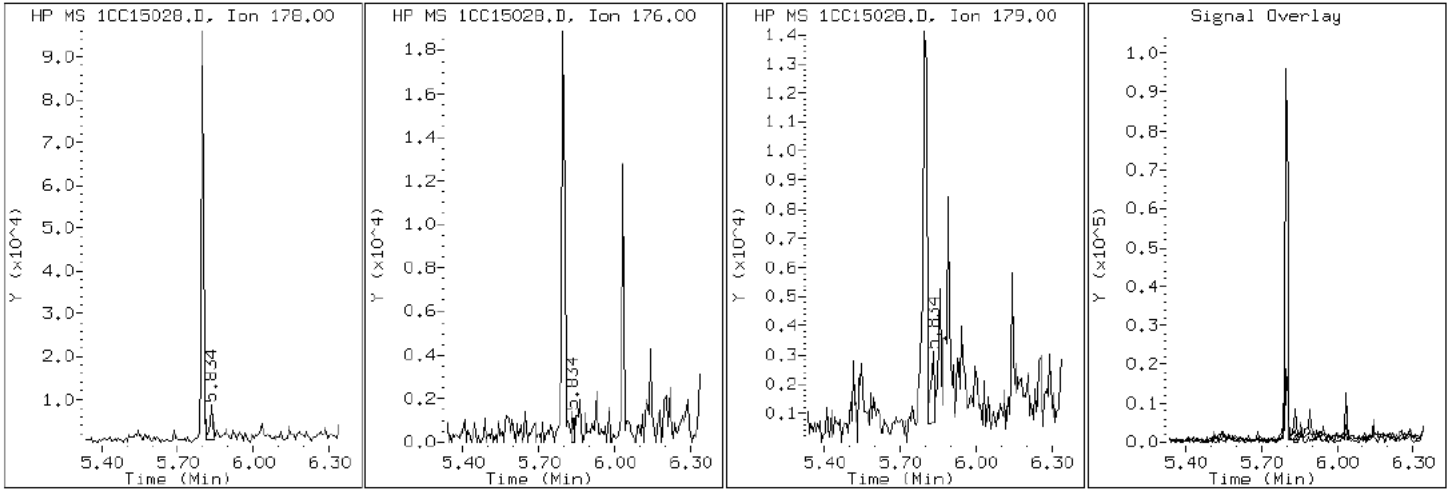
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

12 Anthracene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

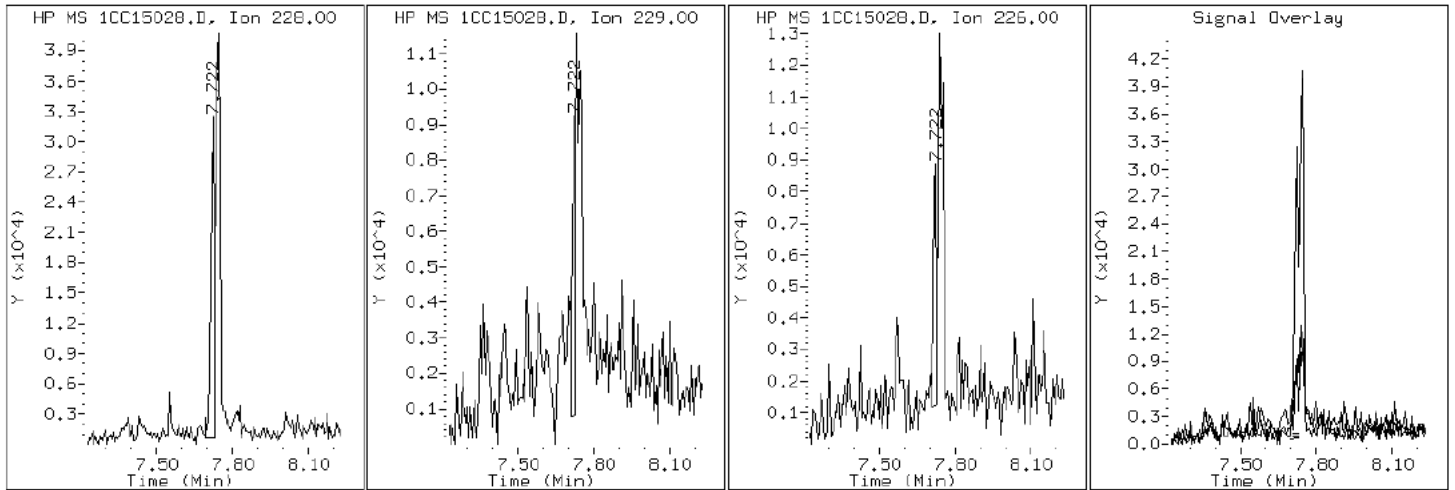
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

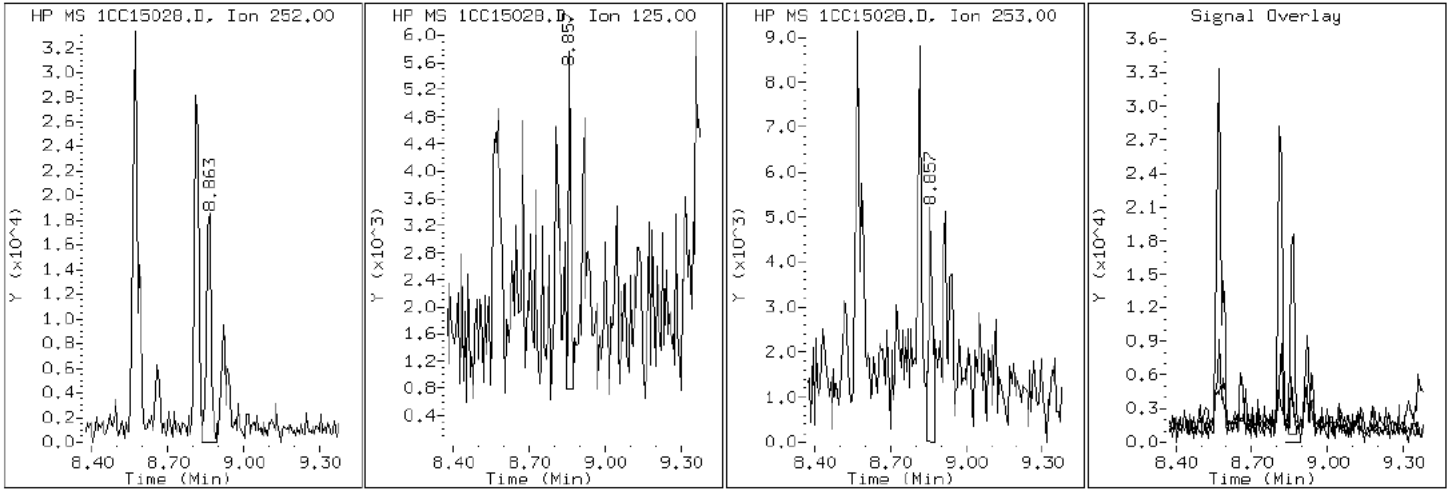
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

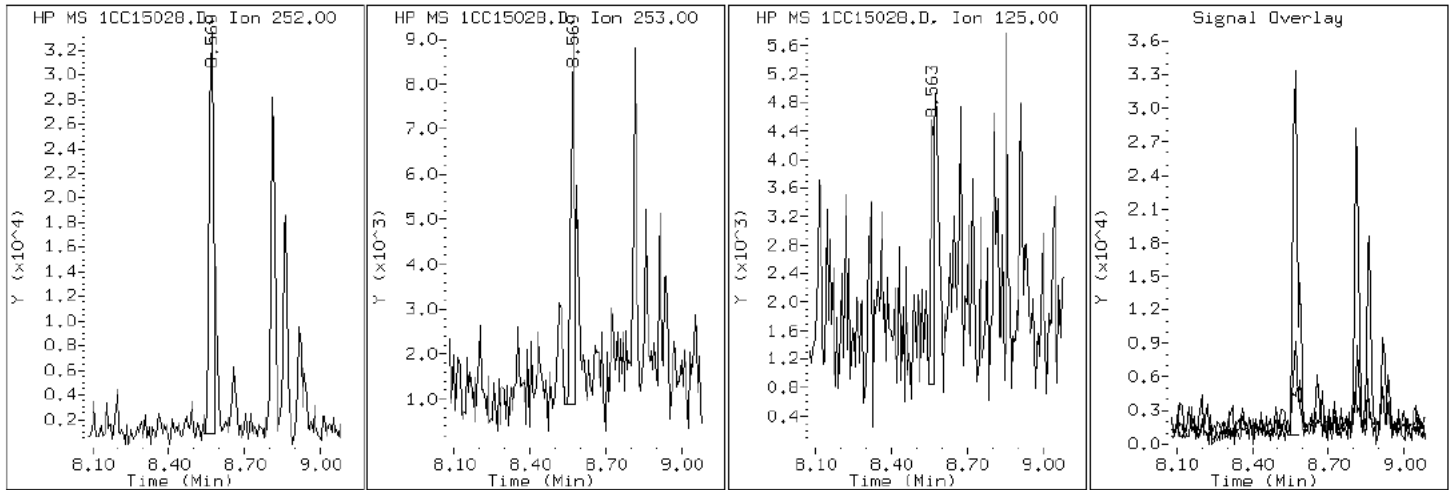
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

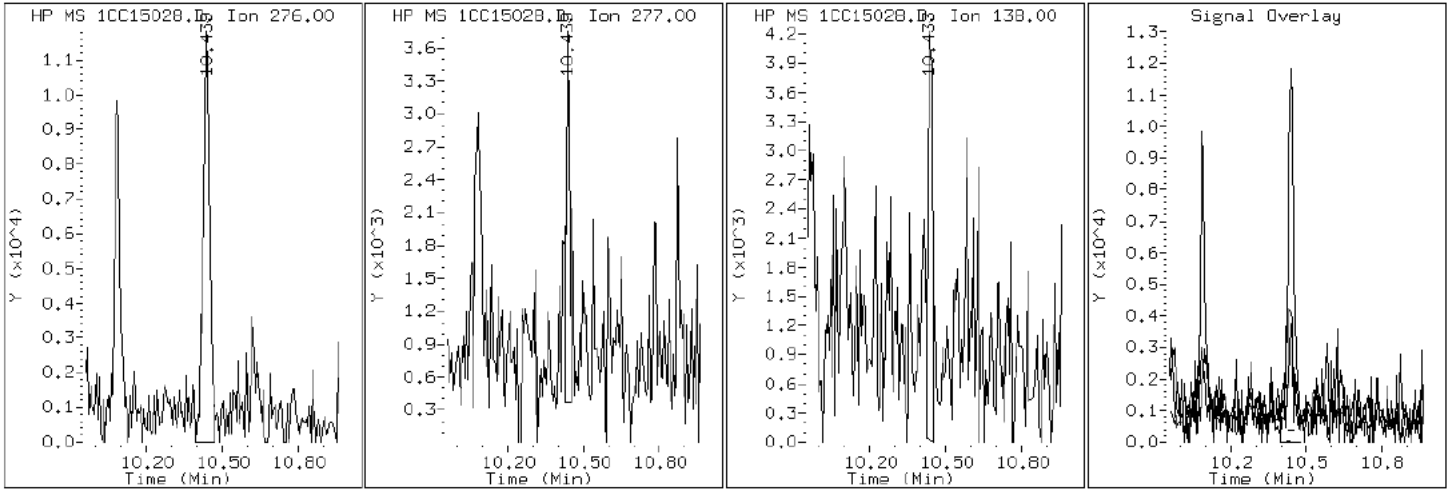
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

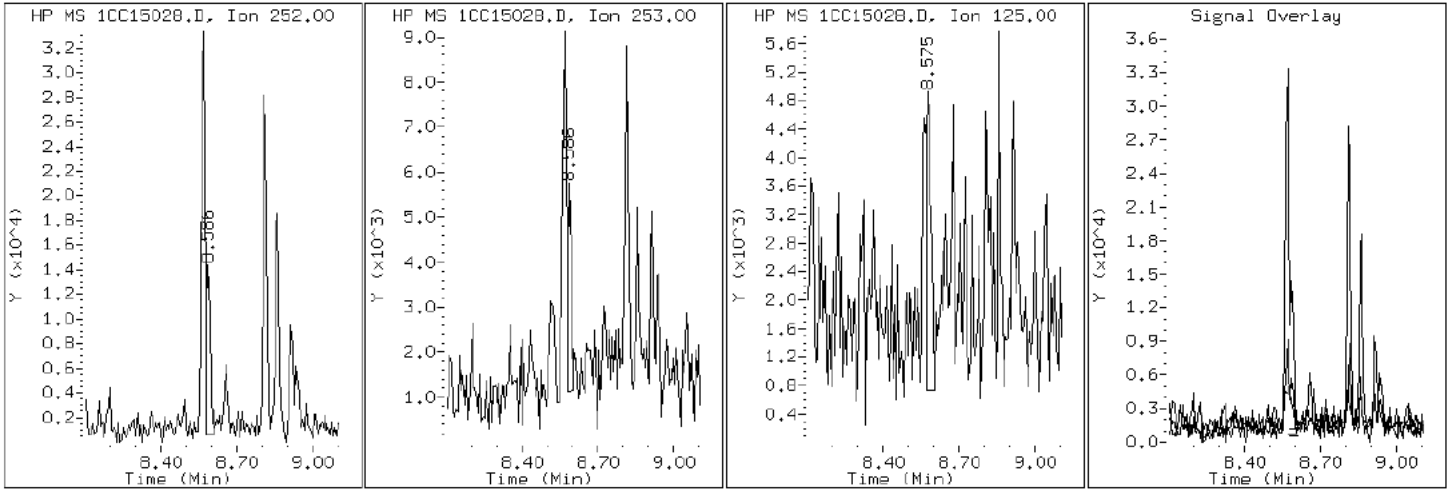
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

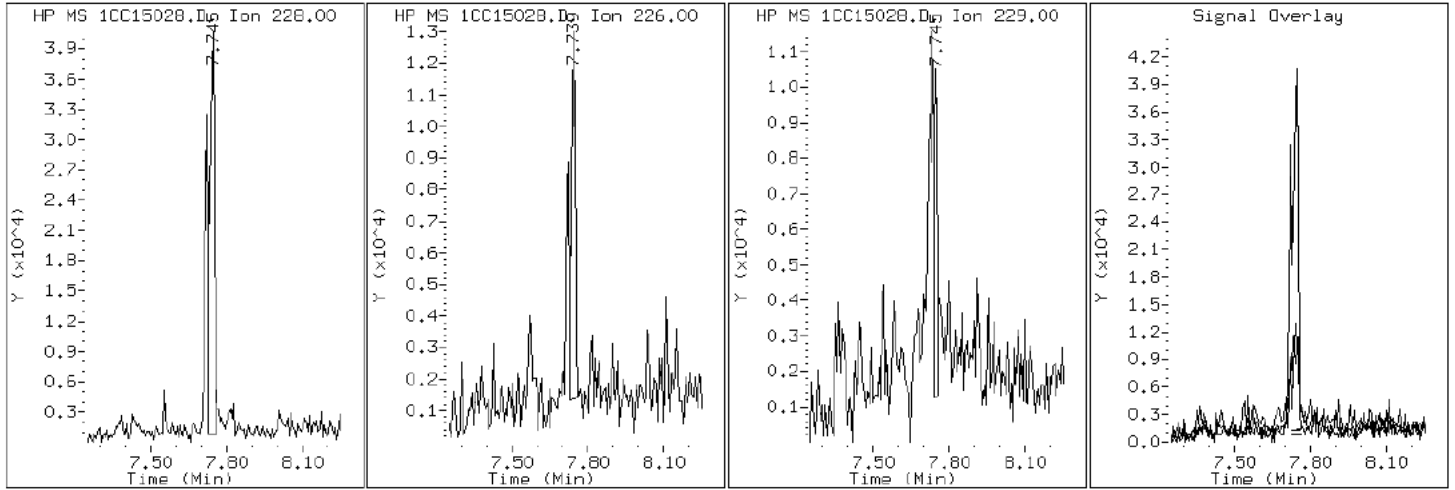
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

19 Chrysene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

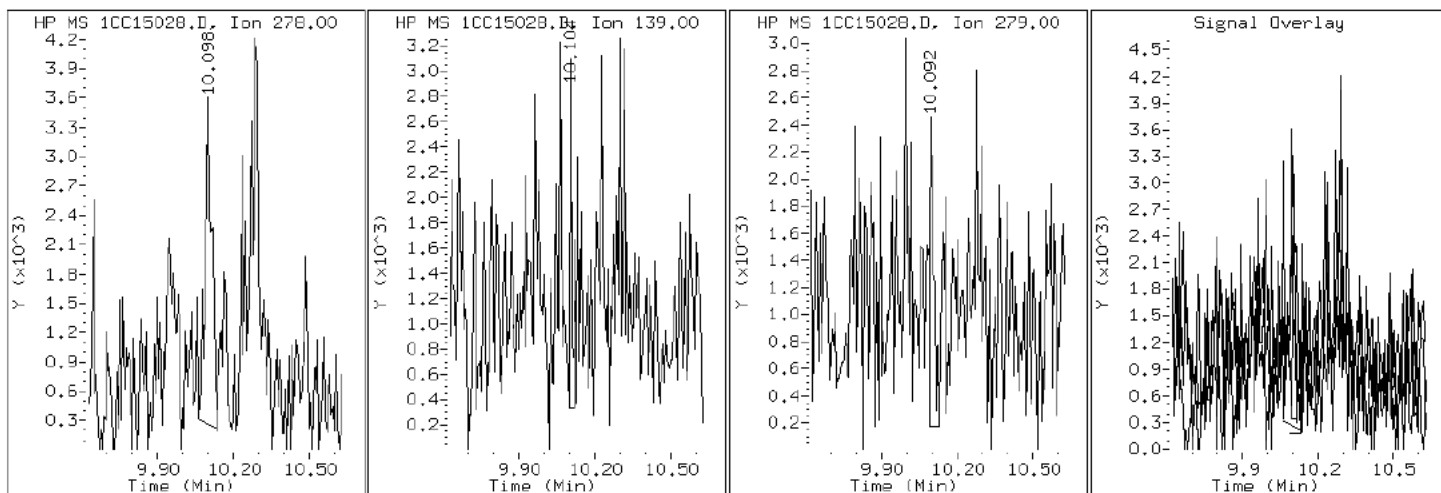
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

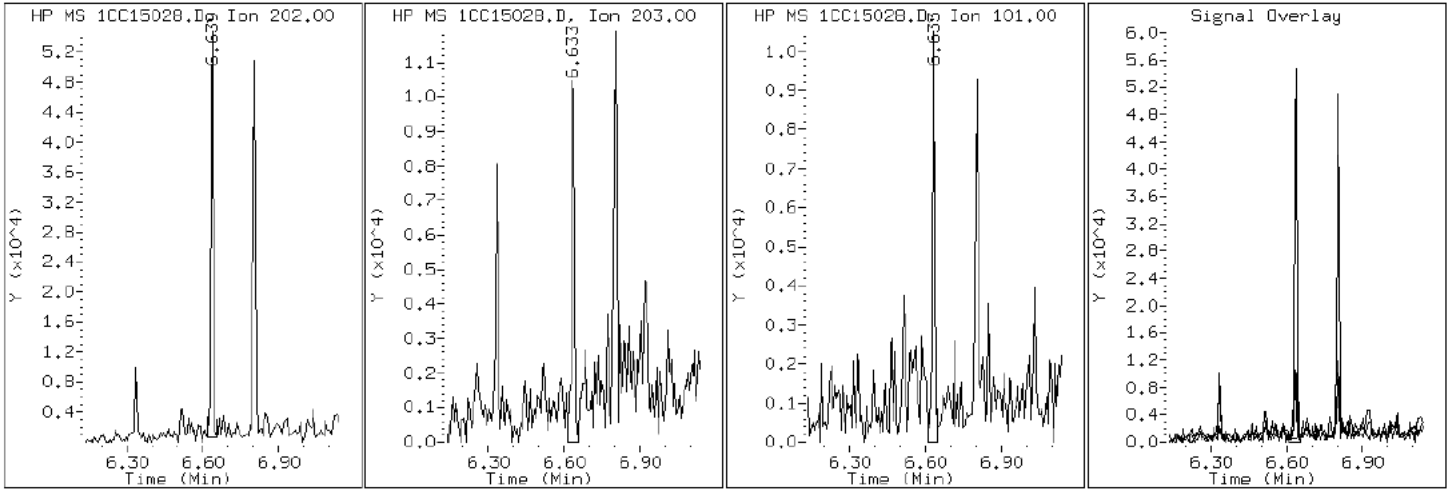
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

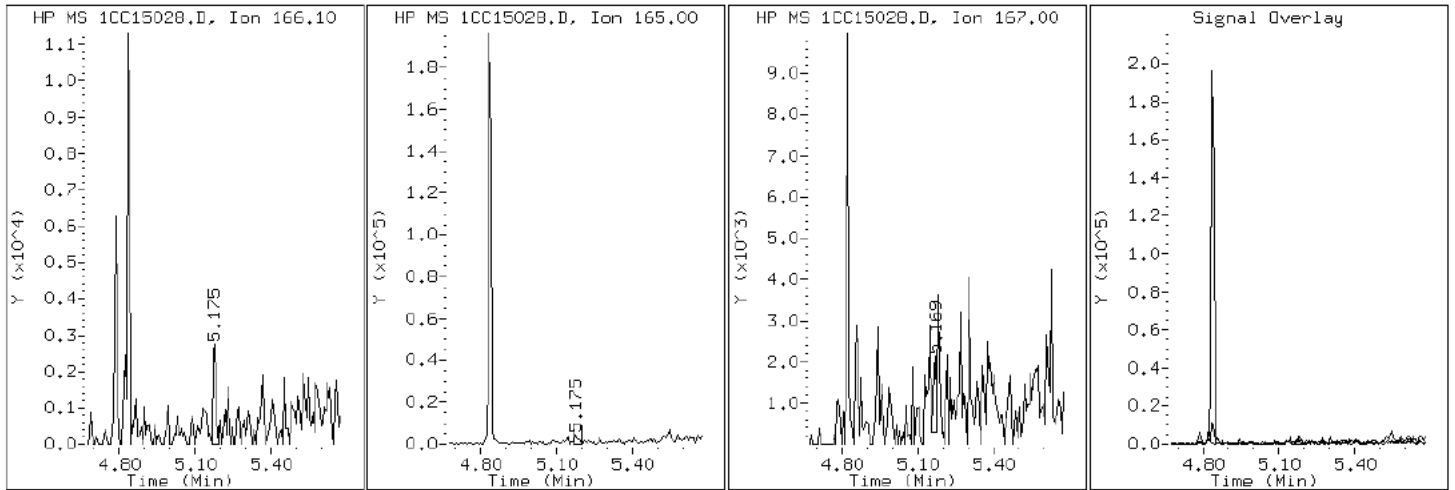
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

9 Fluorene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

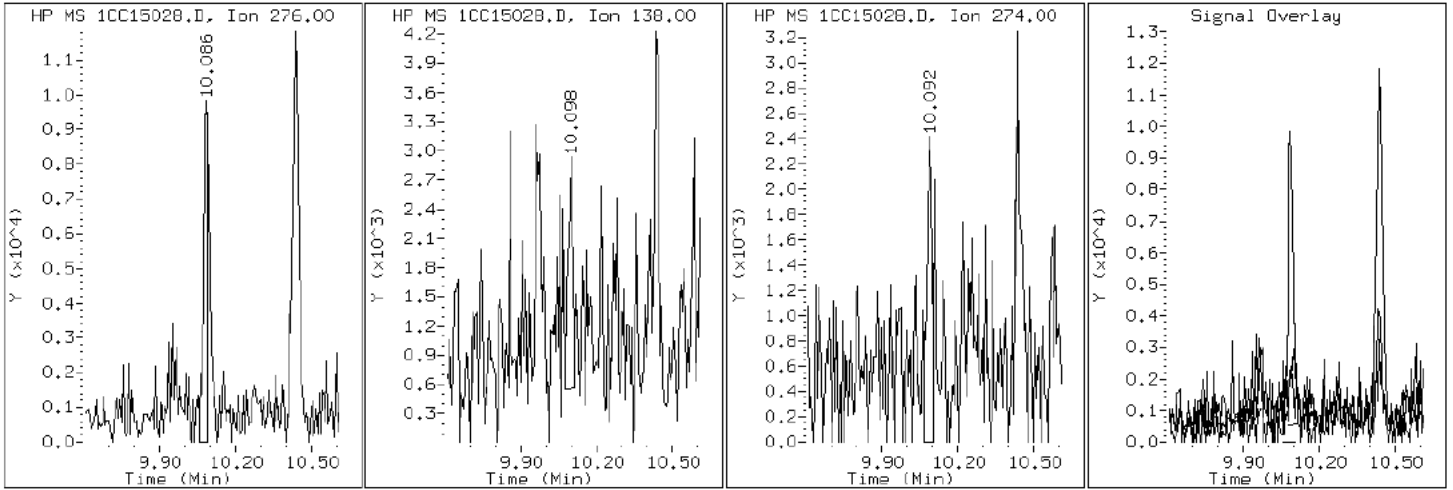
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

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



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

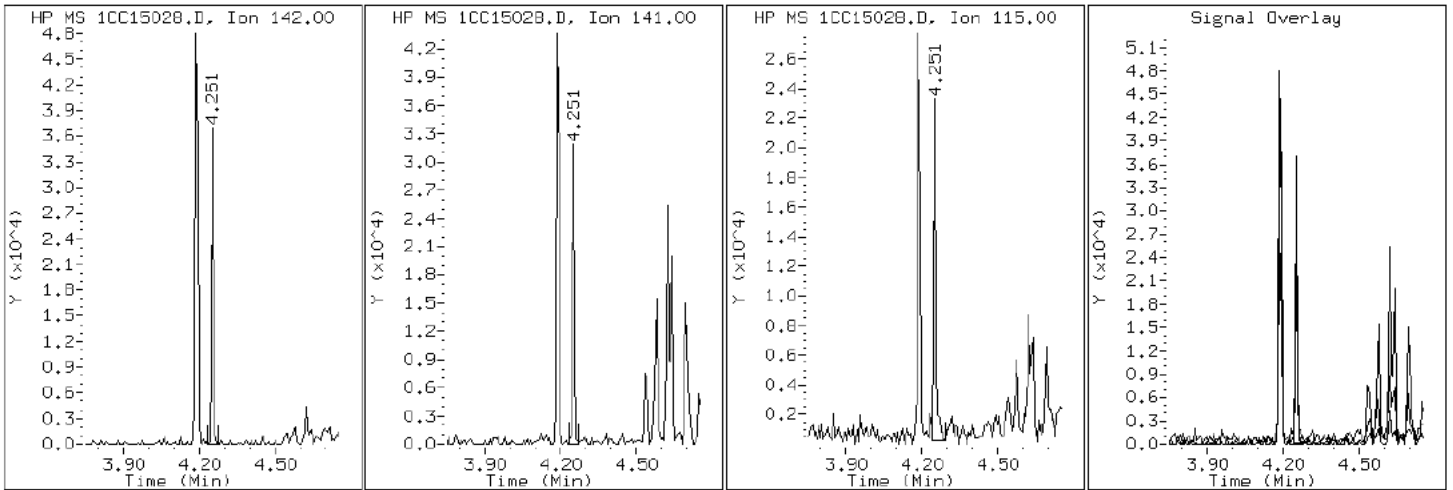
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

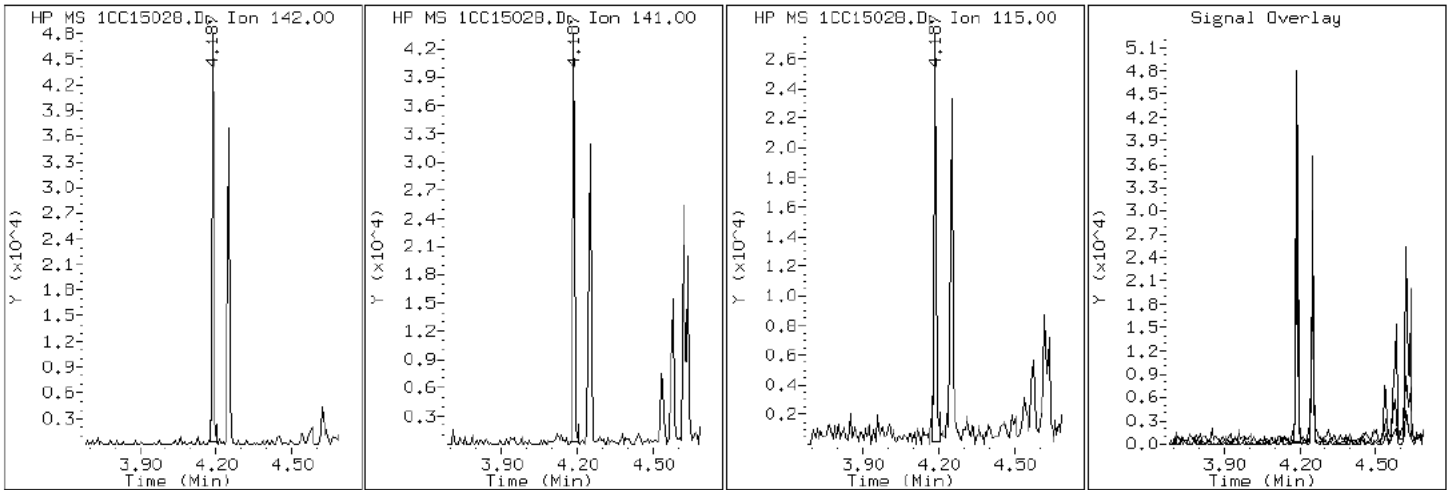
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

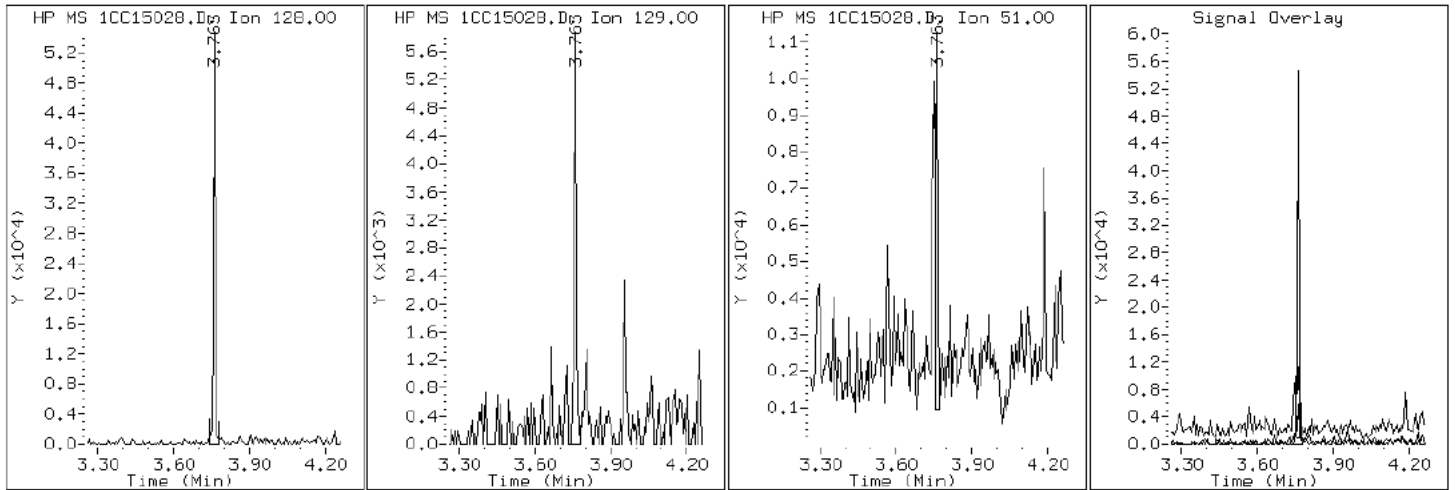
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

2 Naphthalene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

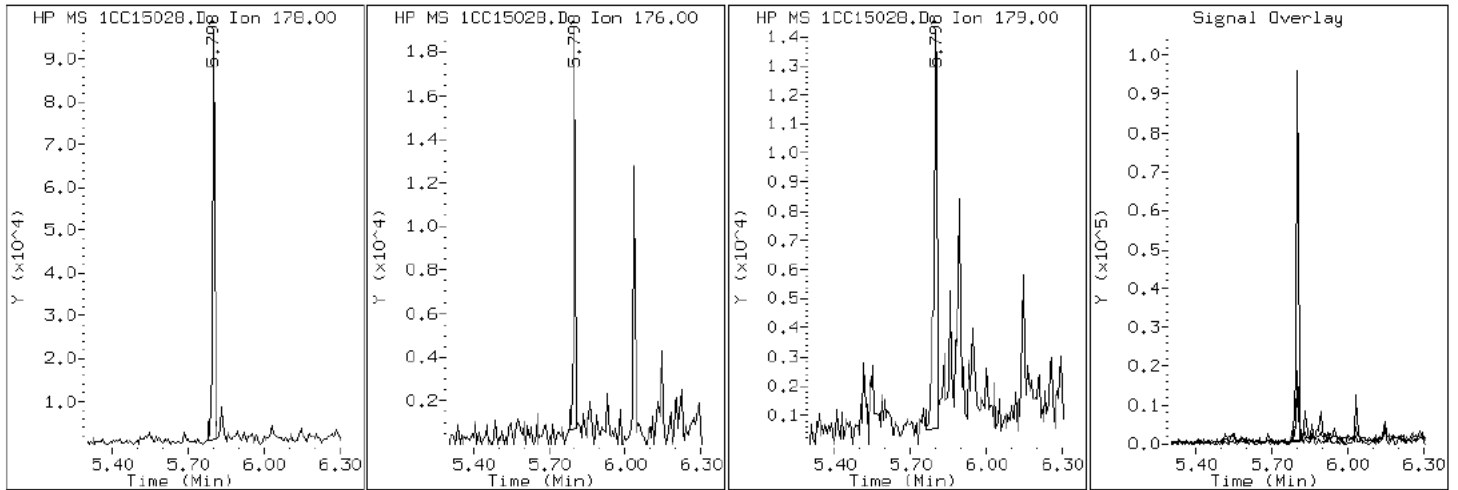
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15028.D

Date: 15-MAR-2013 23:34

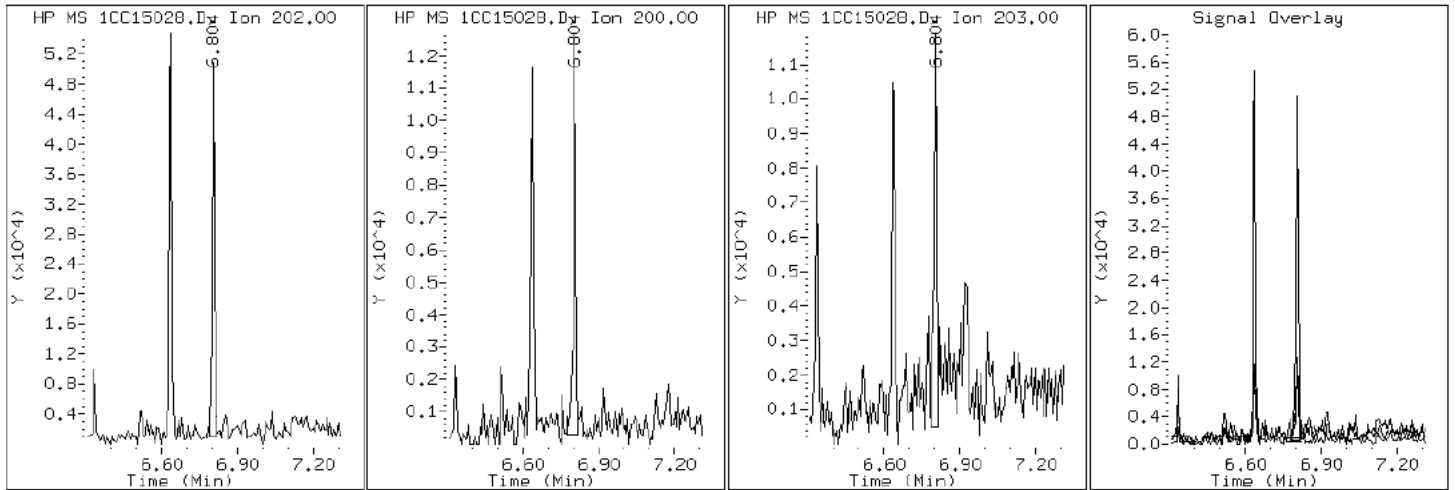
Client ID: CV0911B-CS

Instrument: BSMC5973.i

Sample Info: 680-88118-a-39-a

Operator: SCC

16 Pyrene

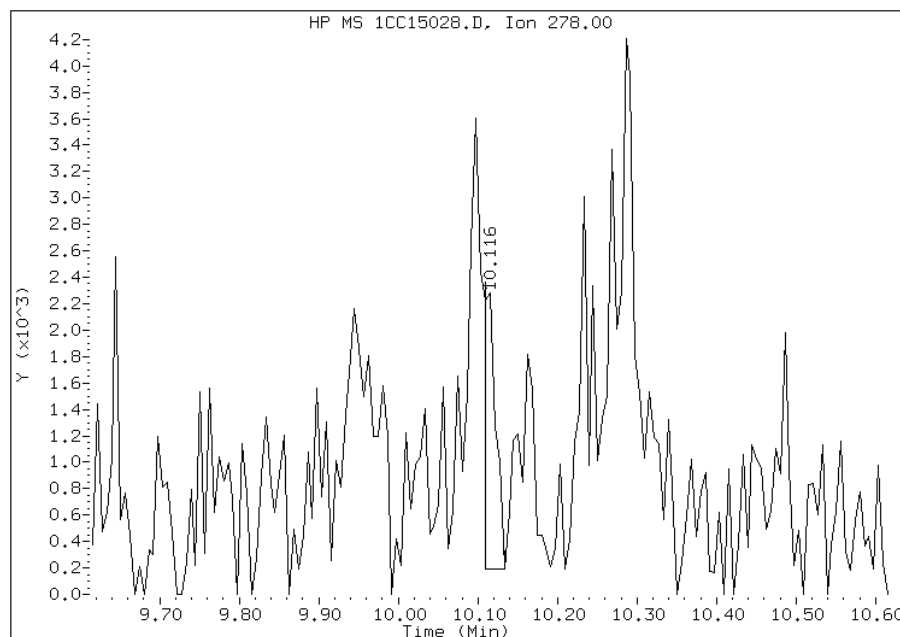


Manual Integration Report

Data File: 1CC15028.D
Inj. Date and Time: 15-MAR-2013 23:34
Instrument ID: BSMC5973.i
Client ID: CV0911B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

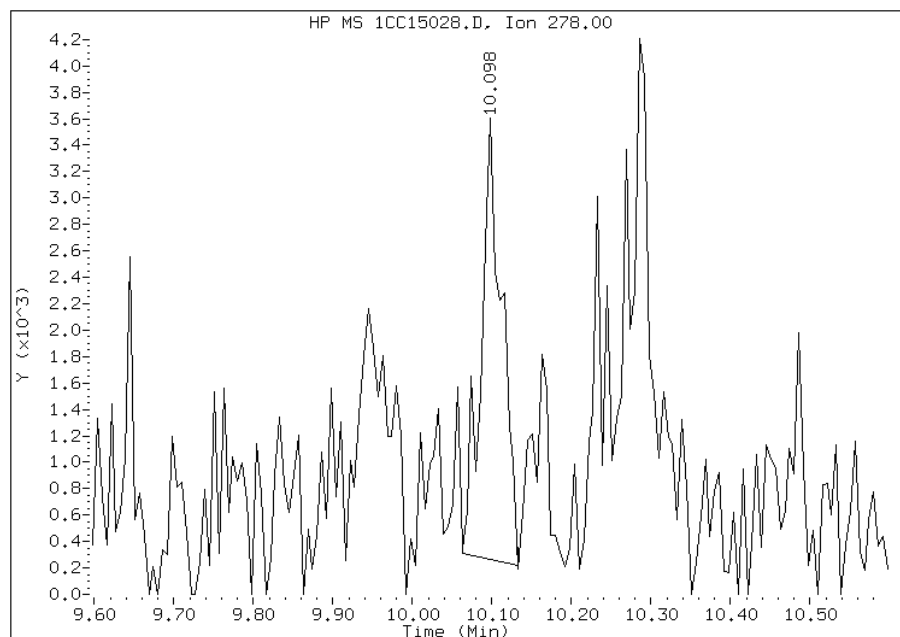
Processing Integration Results

RT: 10.12
Response: 2114
Amount: 0
Conc: 5



Manual Integration Results

RT: 10.10
Response: 6095
Amount: 0
Conc: 13



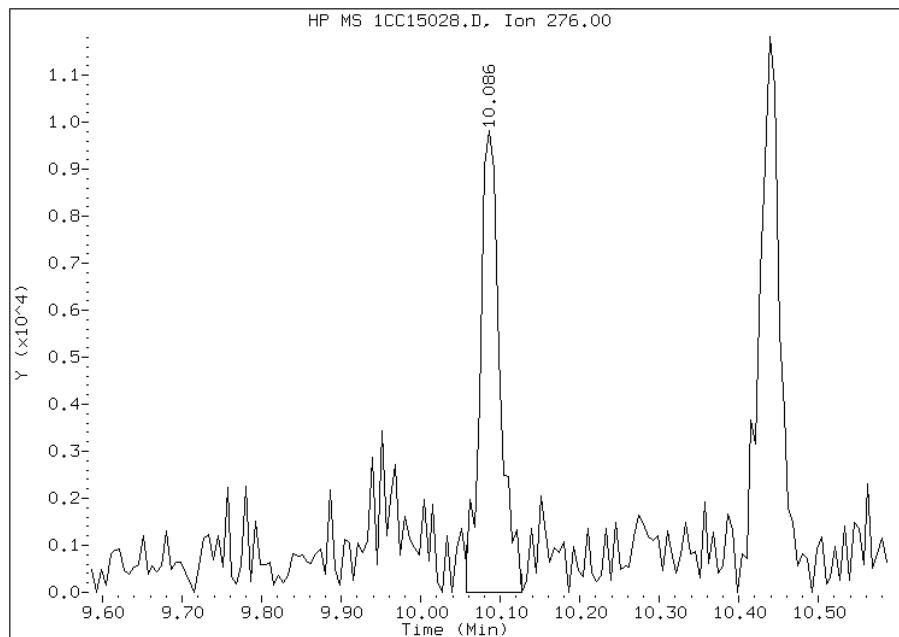
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15028.D
Inj. Date and Time: 15-MAR-2013 23:34
Instrument ID: BSMC5973.i
Client ID: CV0911B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

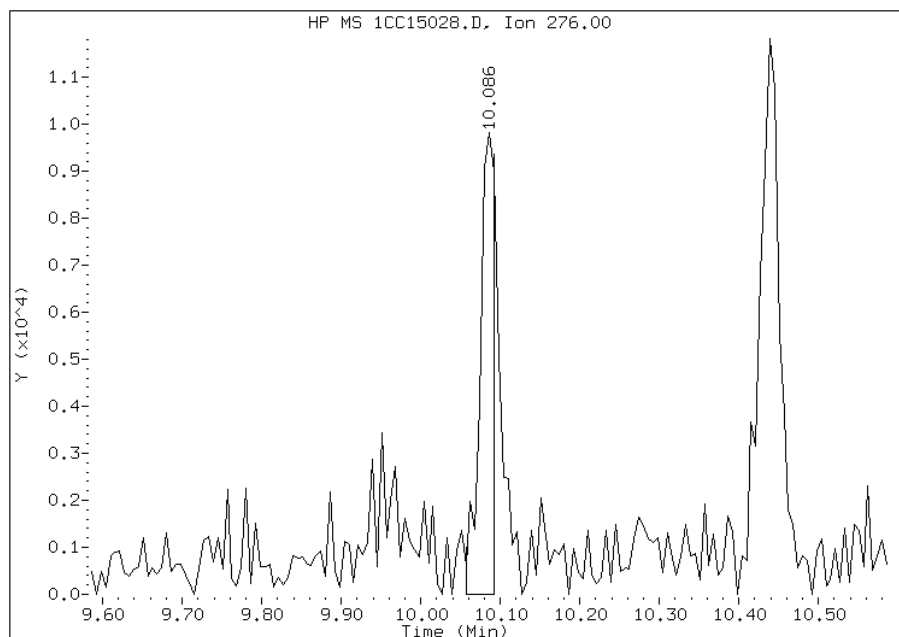
Processing Integration Results

RT: 10.09
Response: 17057
Amount: 0
Conc: 37



Manual Integration Results

RT: 10.09
Response: 12690
Amount: 0
Conc: 27



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:12
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88118-2 Analy Batch No.: 134776

SDG No.: 68088118-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 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.: 680-88118-2 Analy Batch No.: 134776
 SDG No.: 68088118-2
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N
 Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 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.: 680-88118-2 Analy Batch No.: 134776

SDG No.: 68088118-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88118-2 Analy Batch No.: 134776

SDG No.: 68088118-2

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
 Lab Smp Id: IC-1512358
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE 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

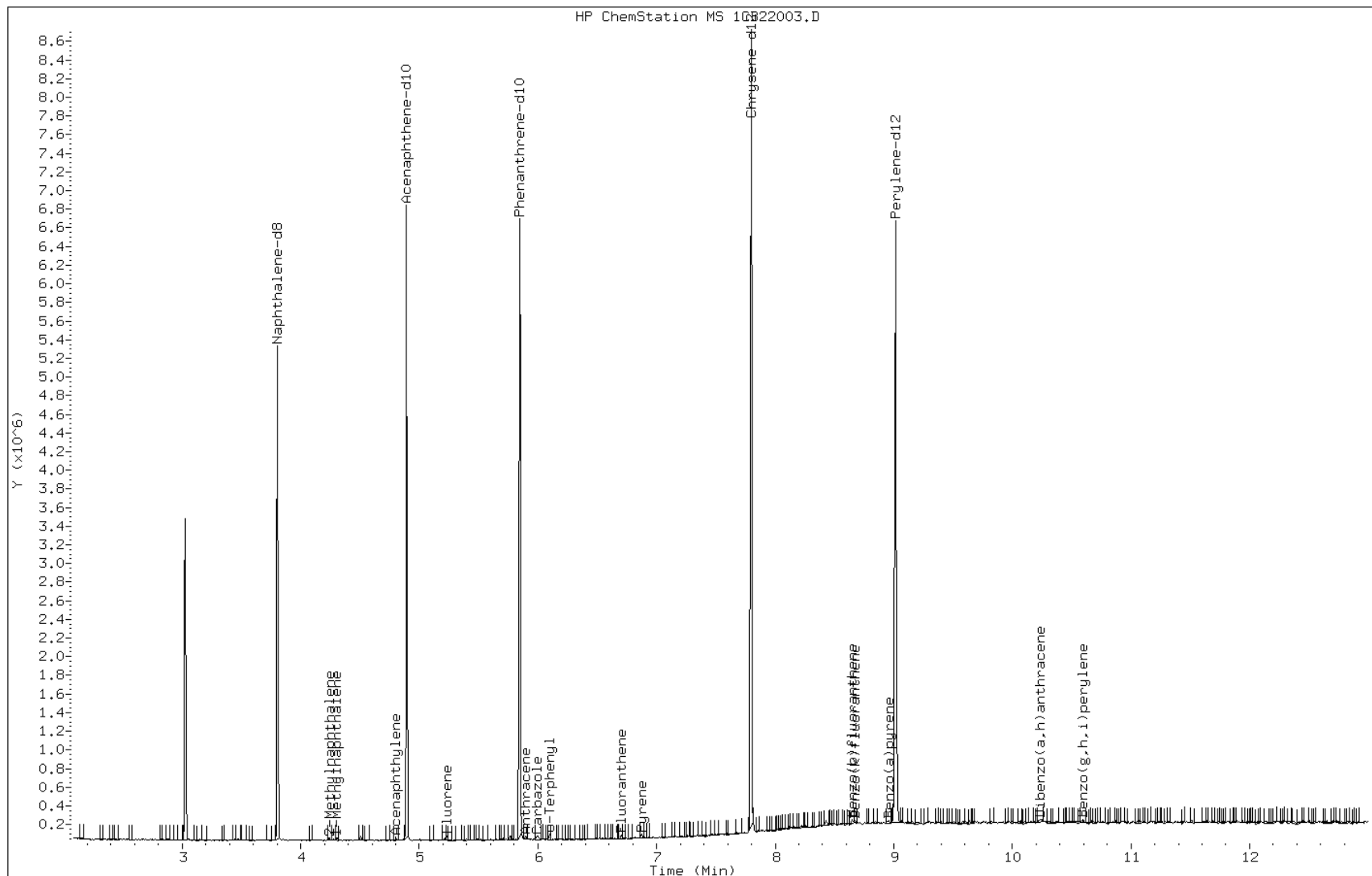
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

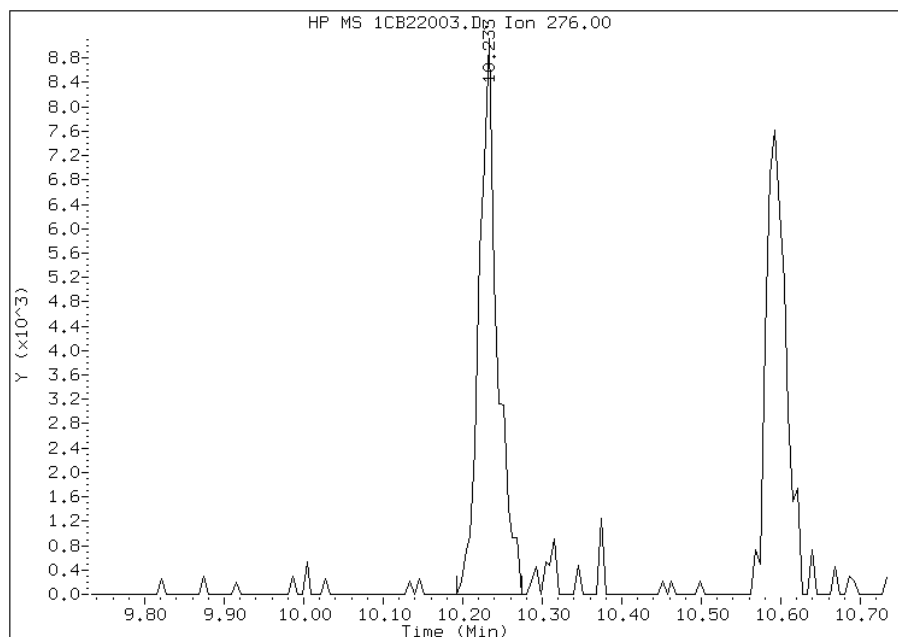


Manual Integration Report

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

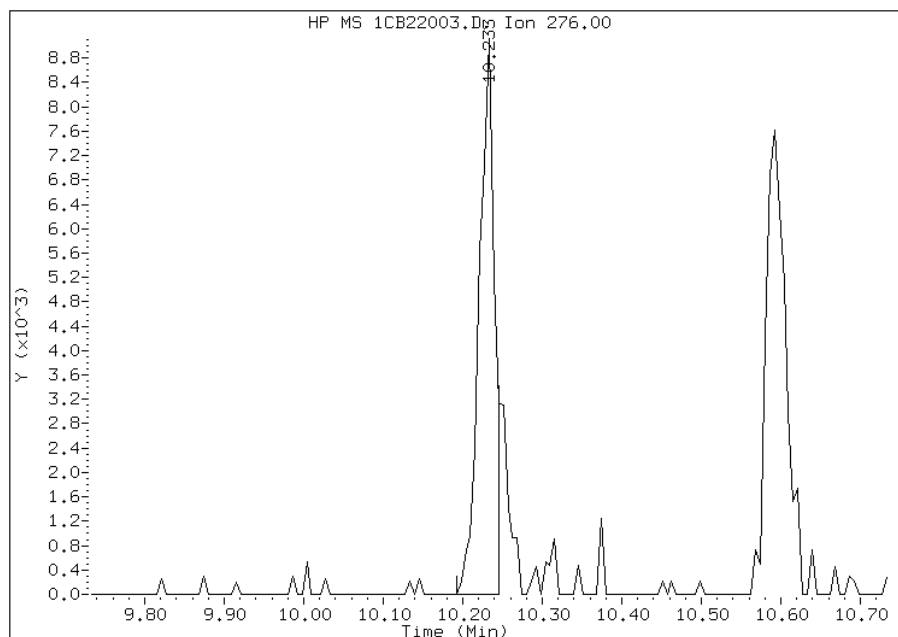
Processing Integration Results

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

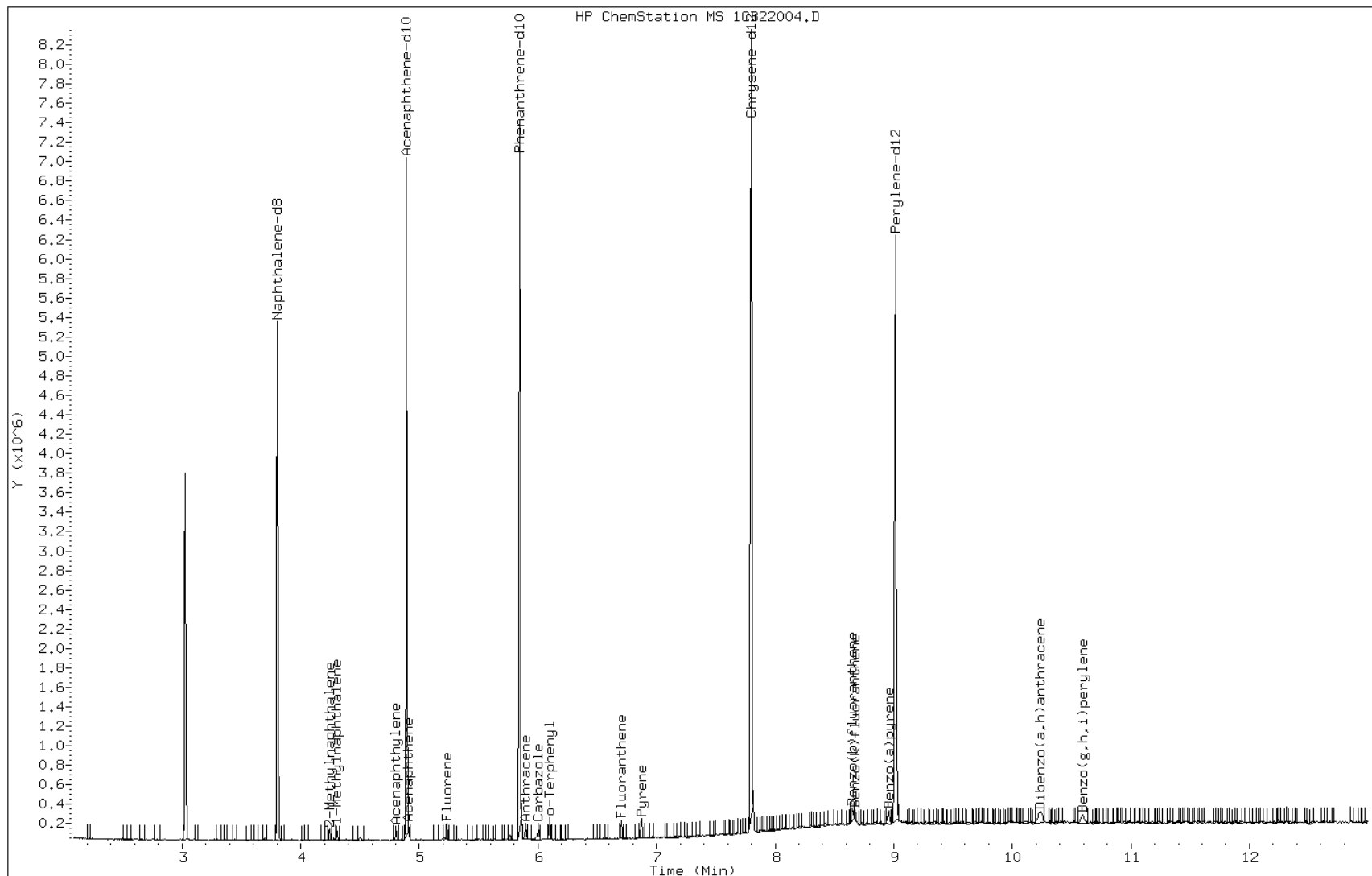
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

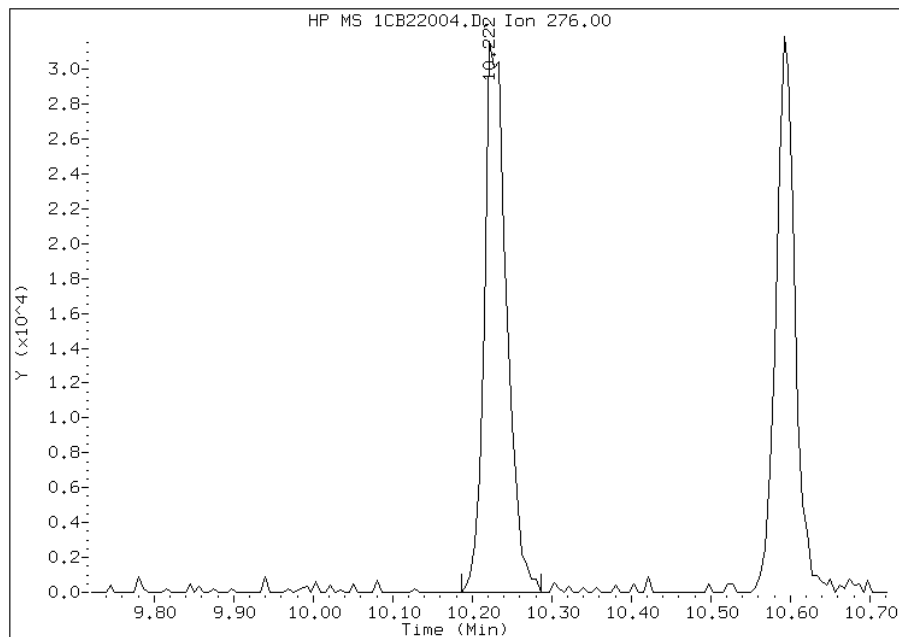


Manual Integration Report

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

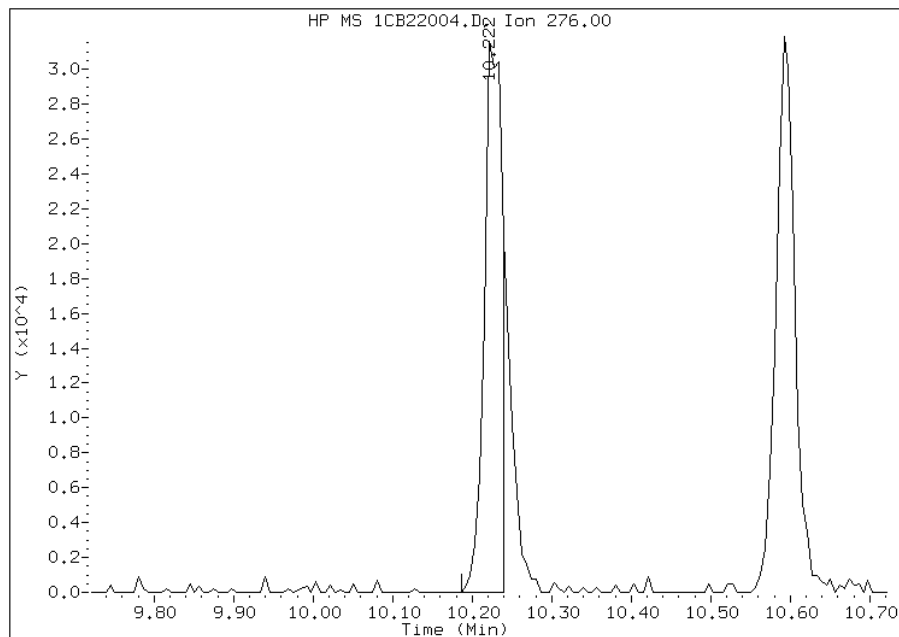
Processing Integration Results

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\1CB22005.D
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE 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

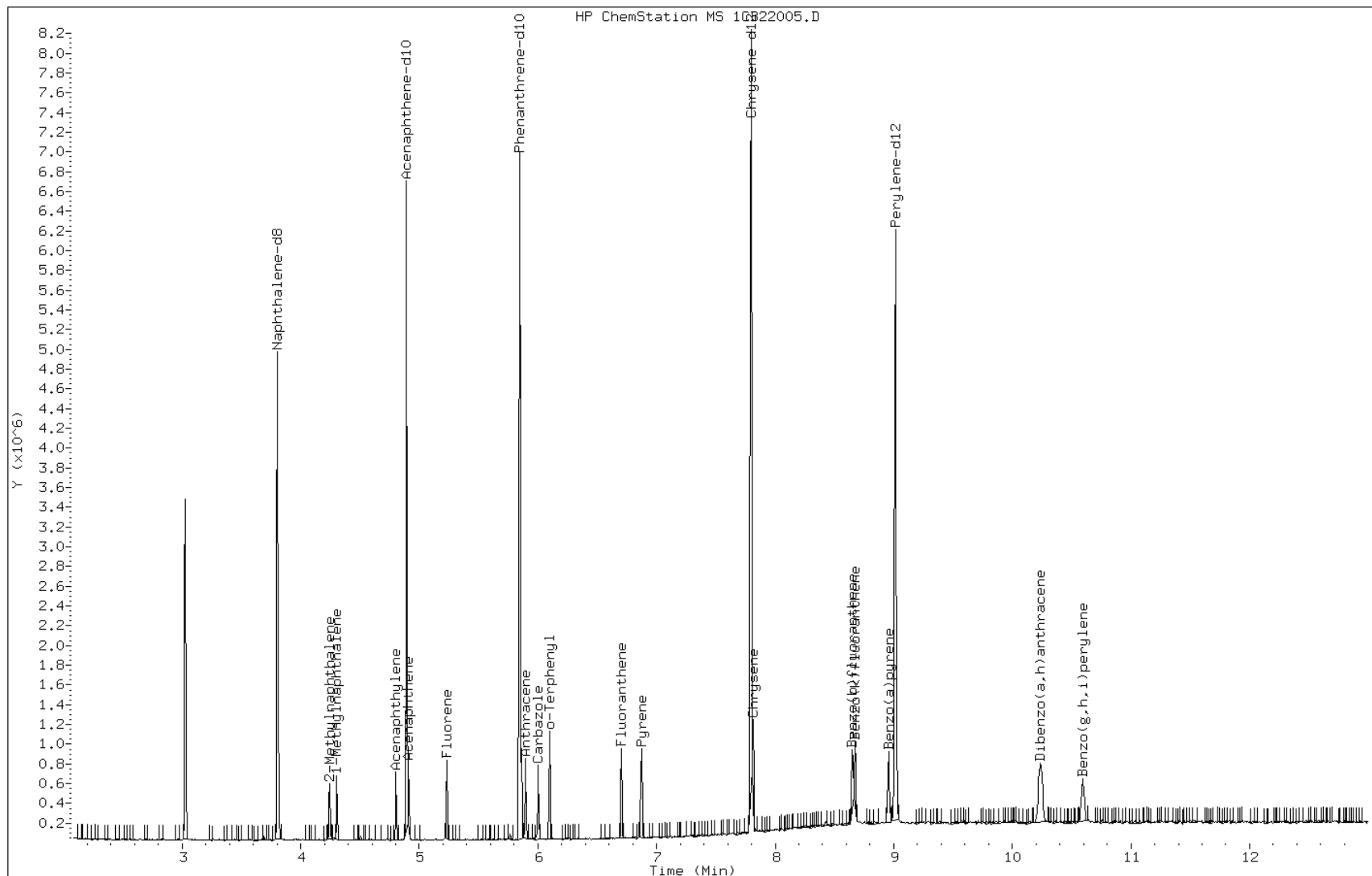
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

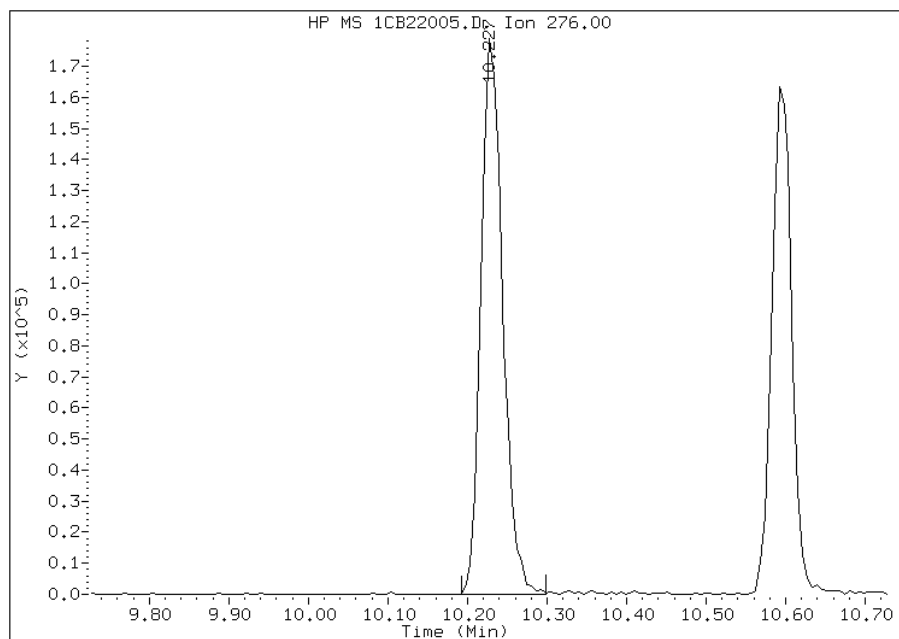


Manual Integration Report

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

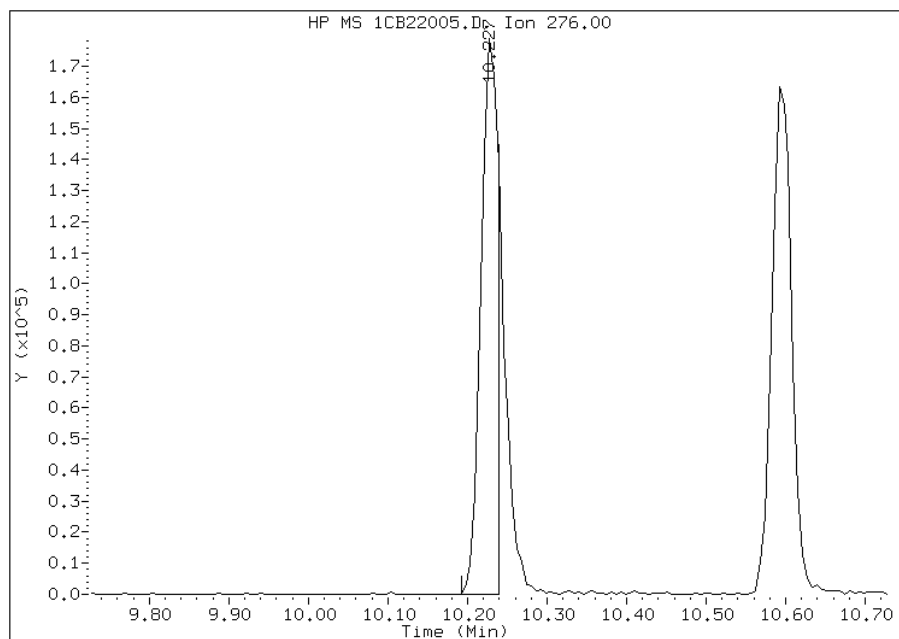
Processing Integration Results

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

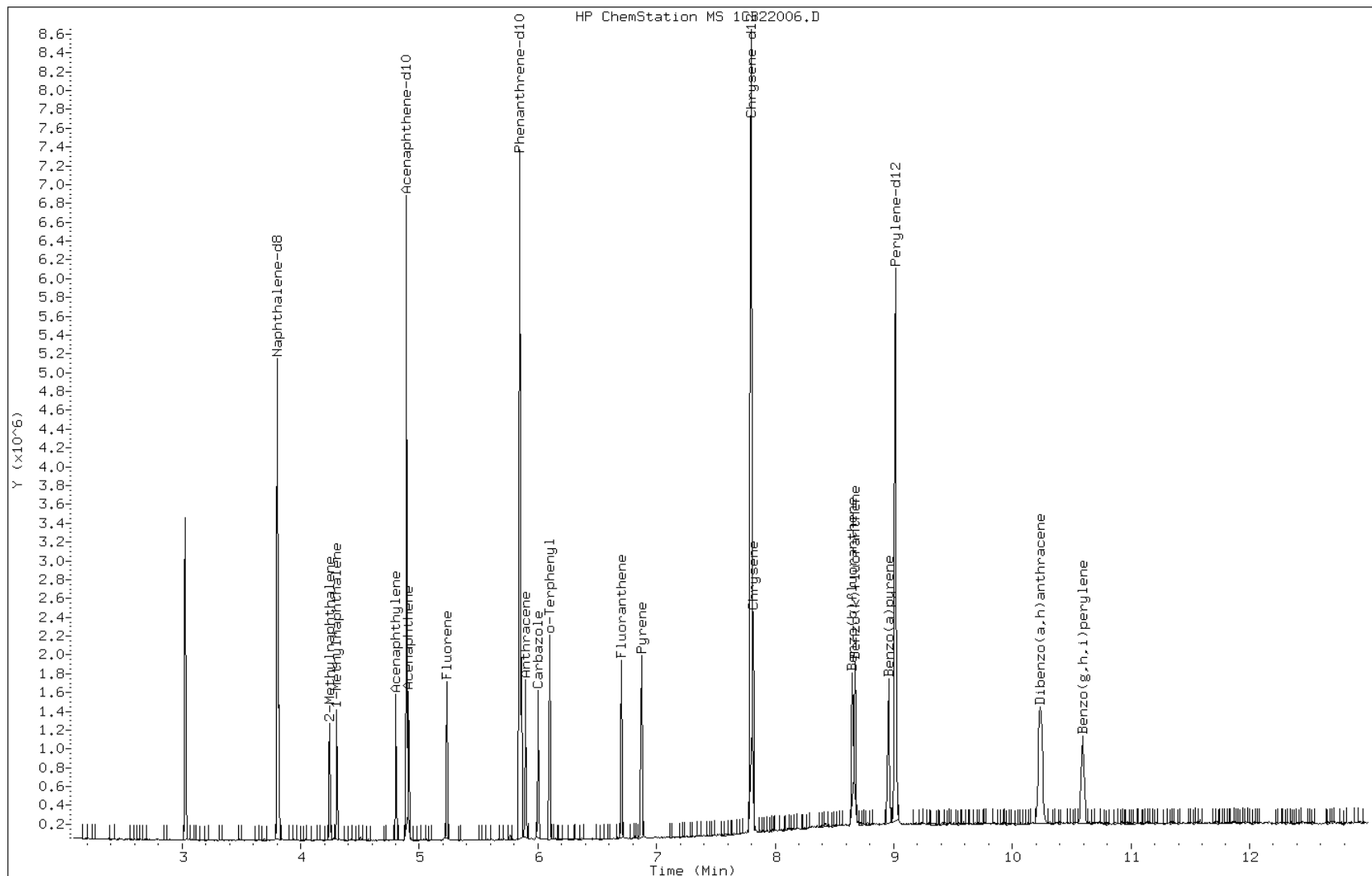
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

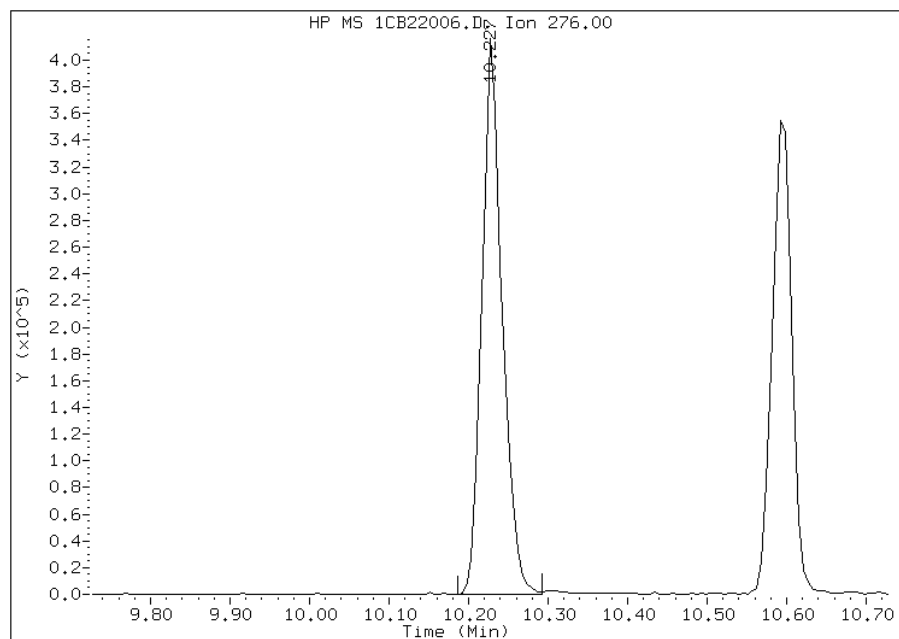


Manual Integration Report

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

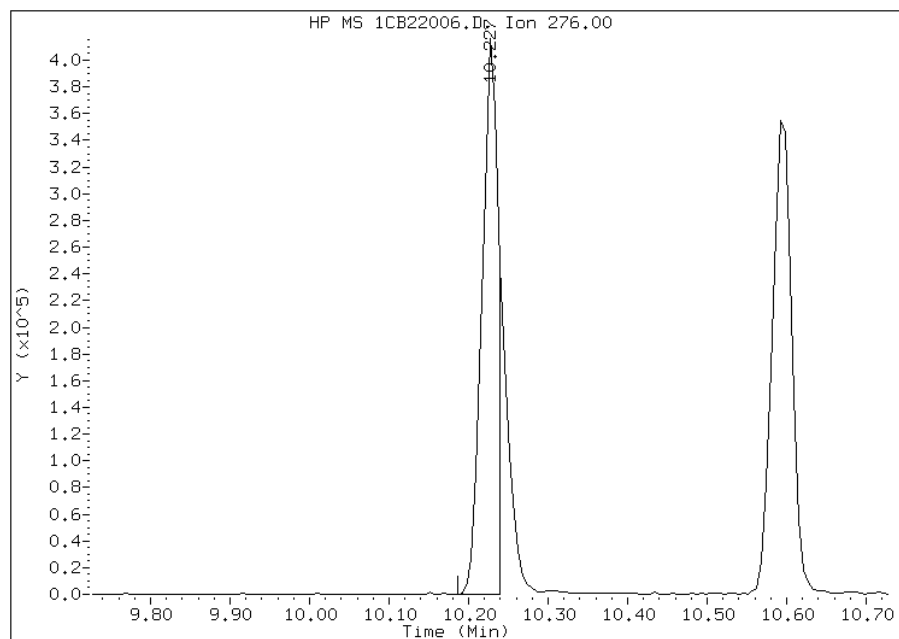
Processing Integration Results

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\1CB22007.D\1CB22007.D
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE 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

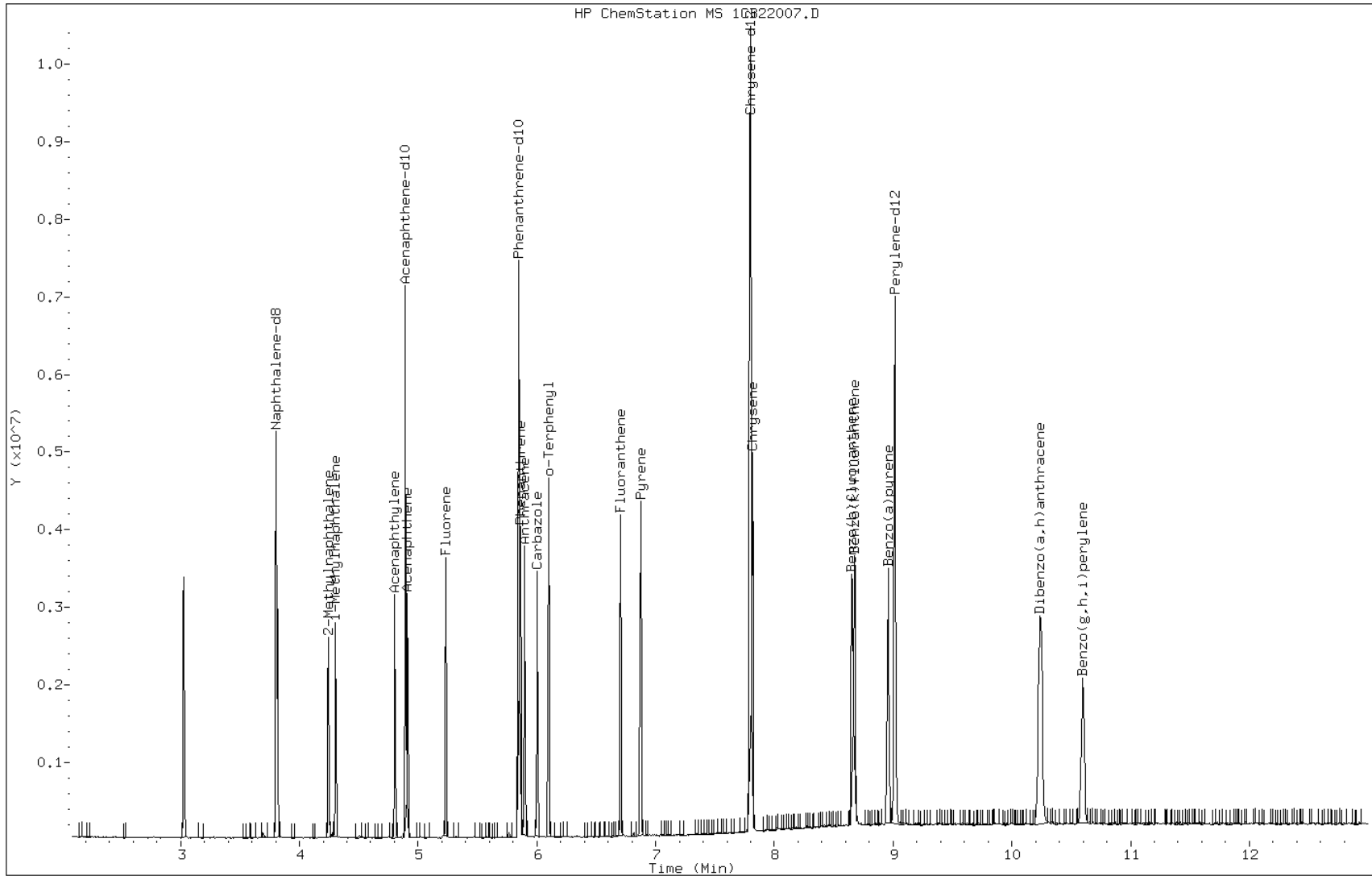
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

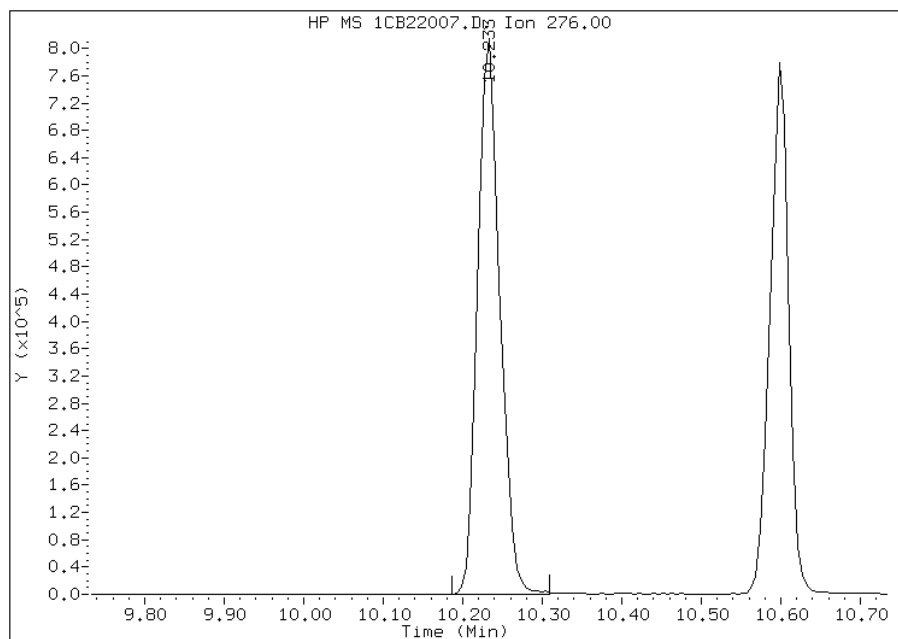


Manual Integration Report

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

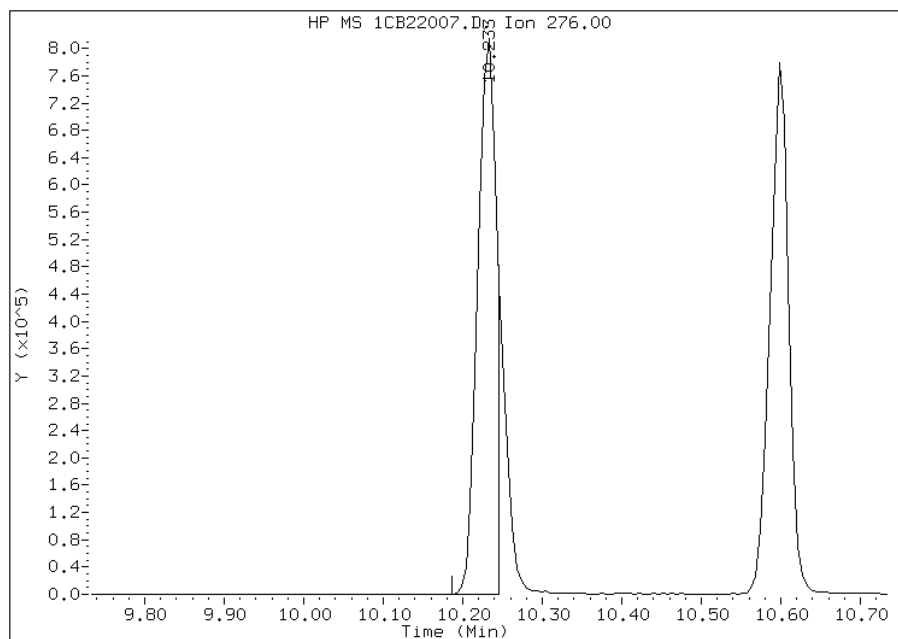
Processing Integration Results

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				
	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)	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

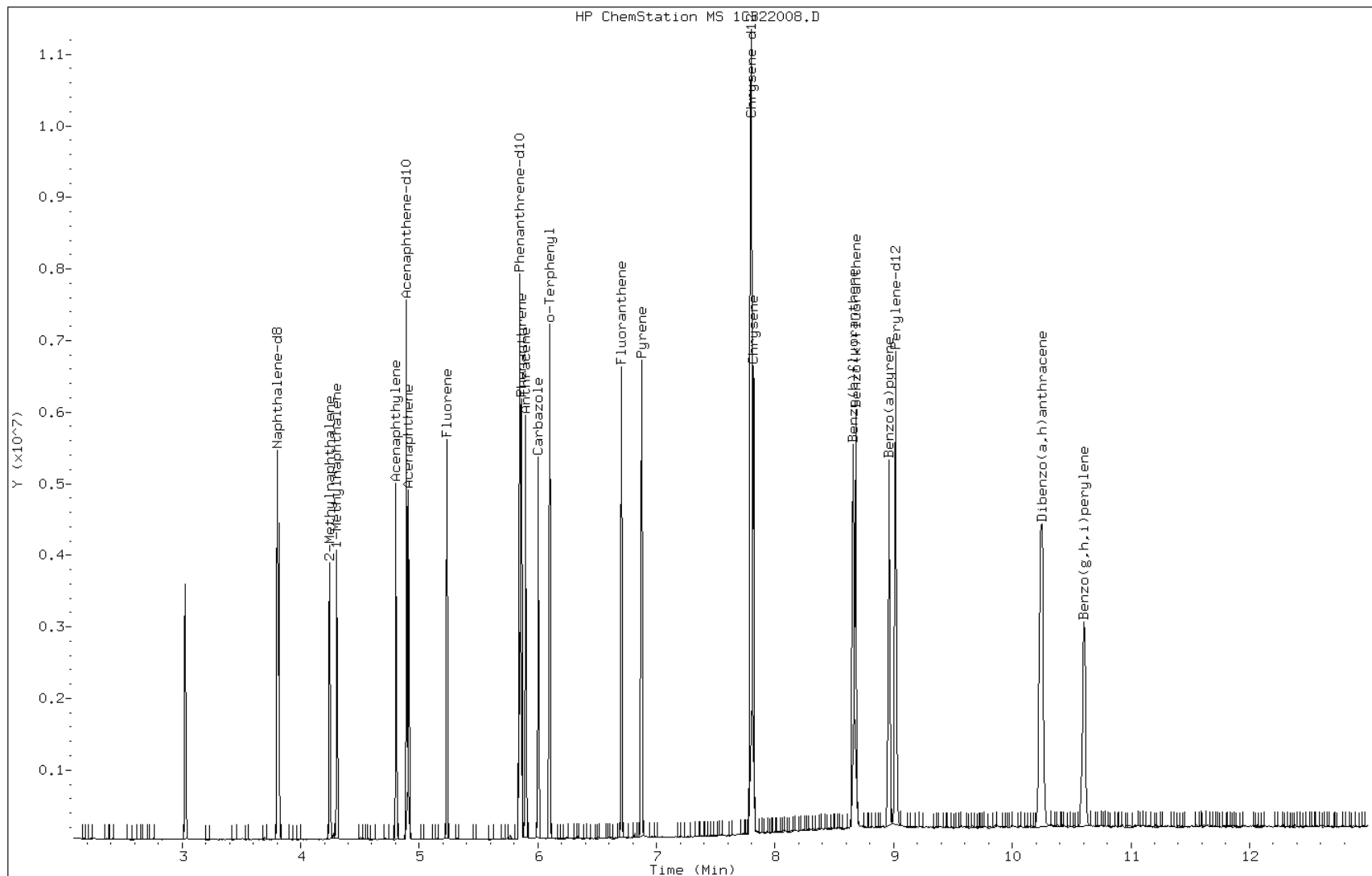
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

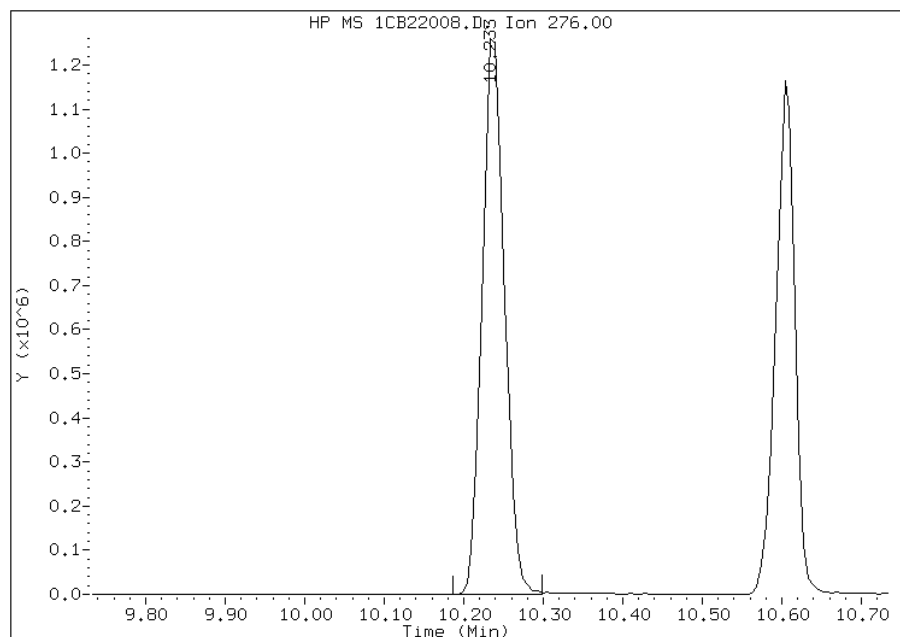


Manual Integration Report

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

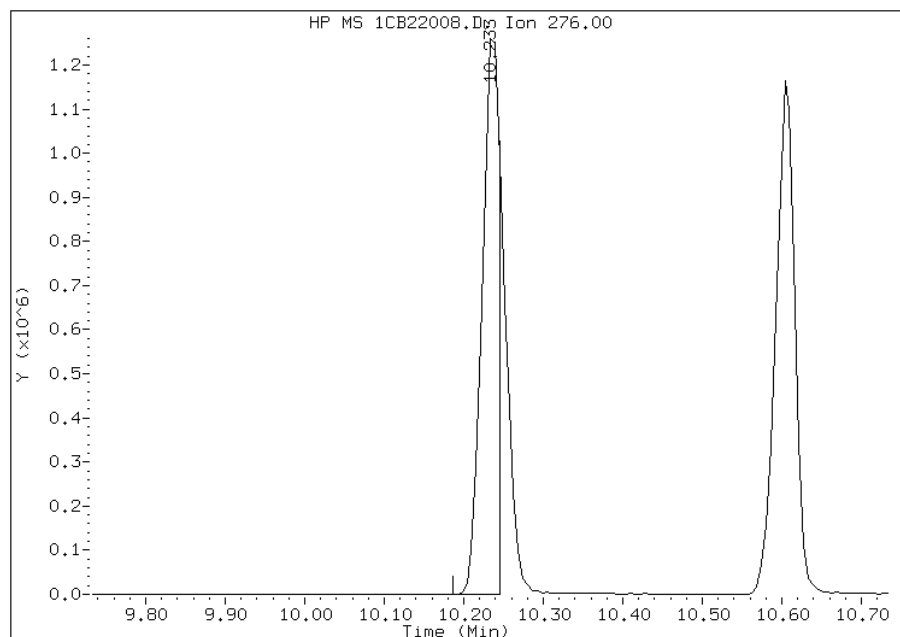
Processing Integration Results

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

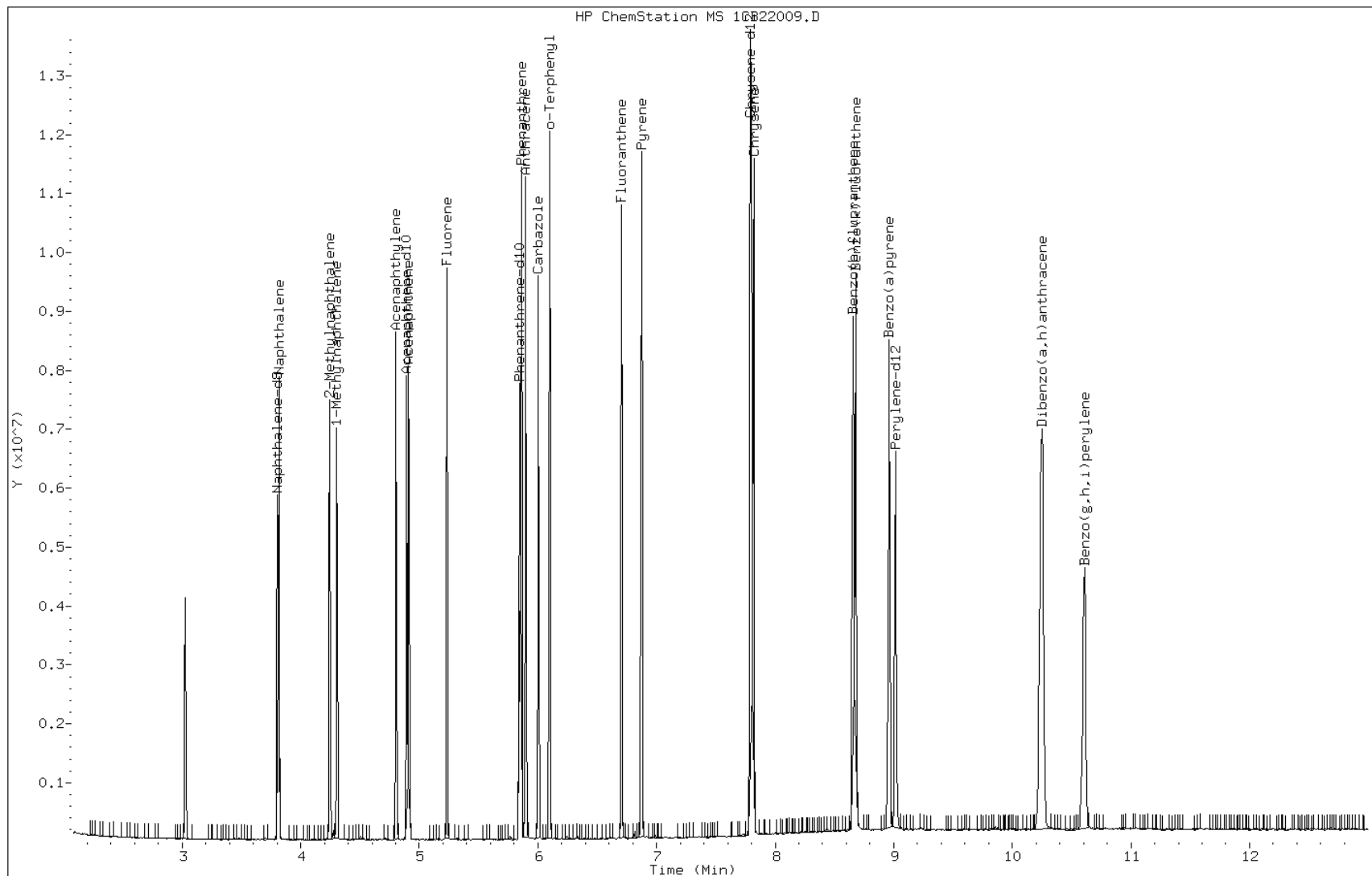
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

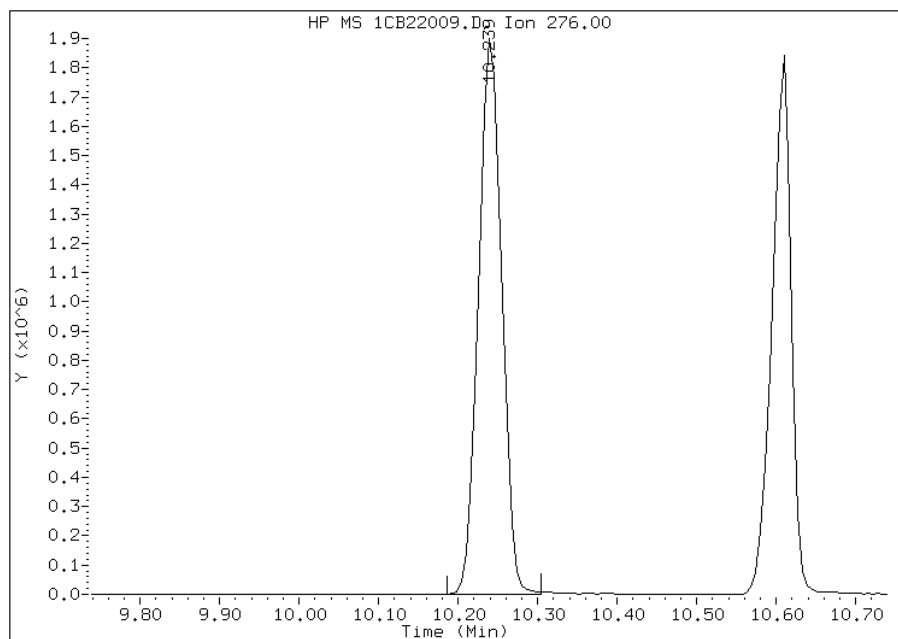


Manual Integration Report

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

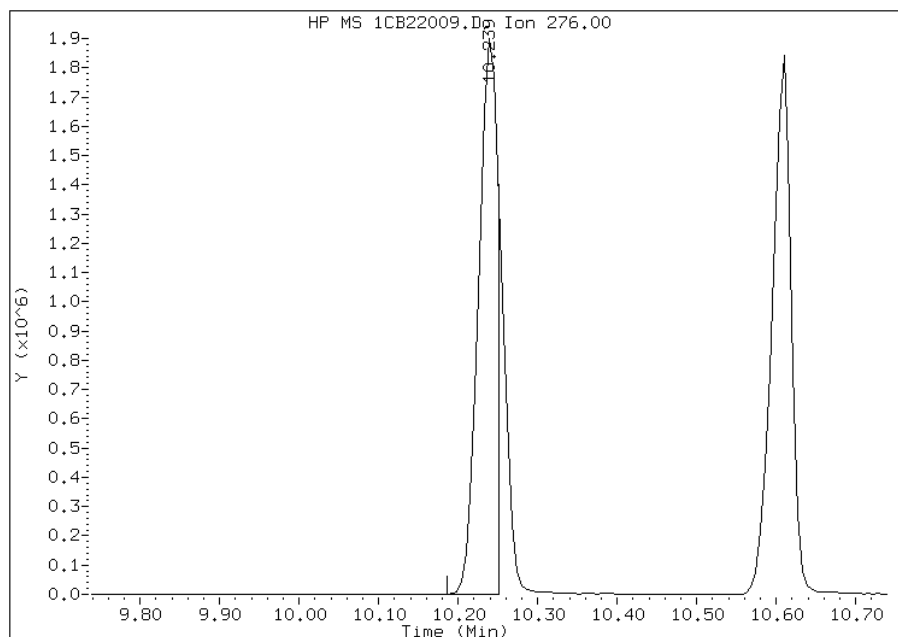
Processing Integration Results

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

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

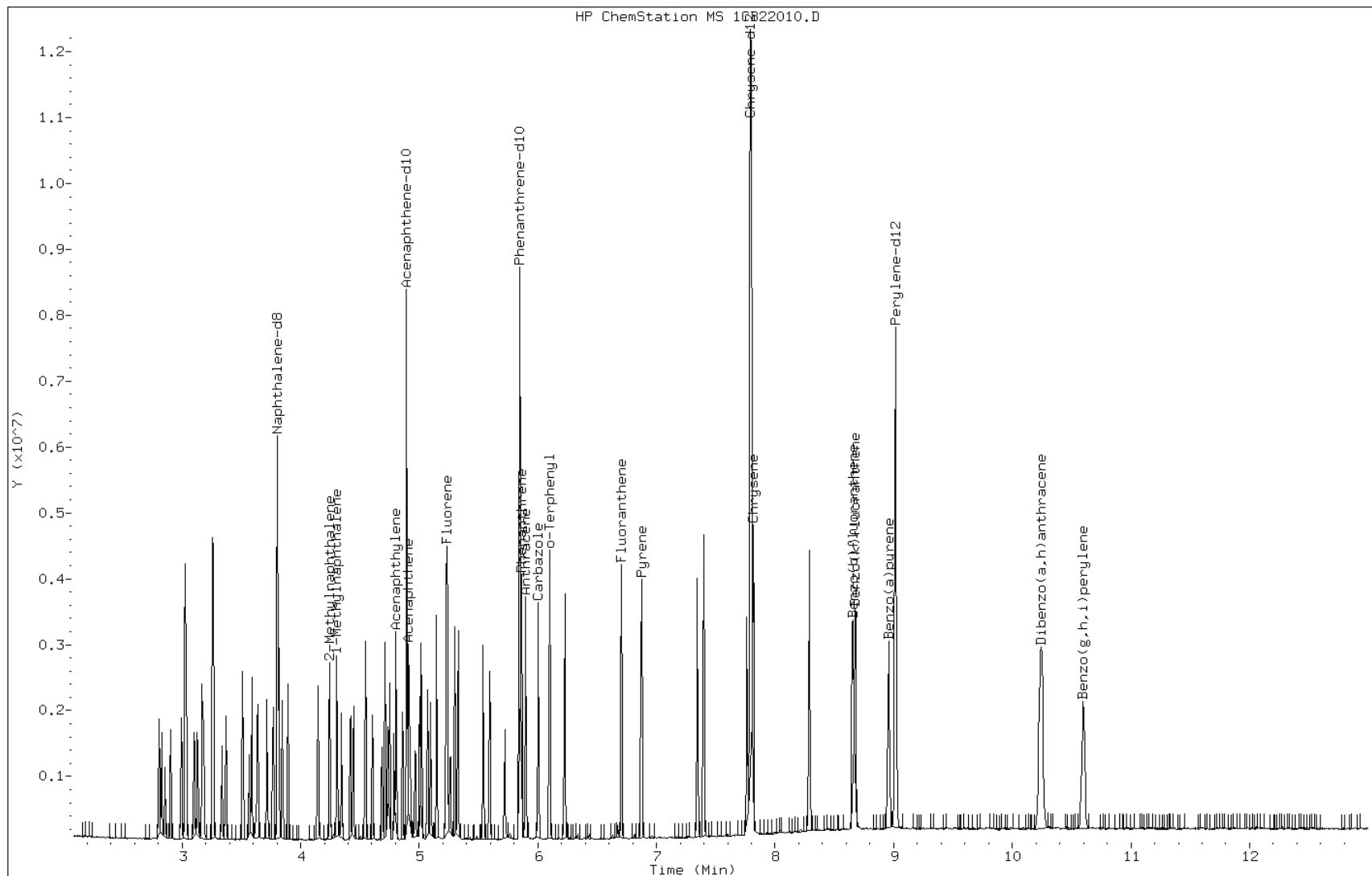
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

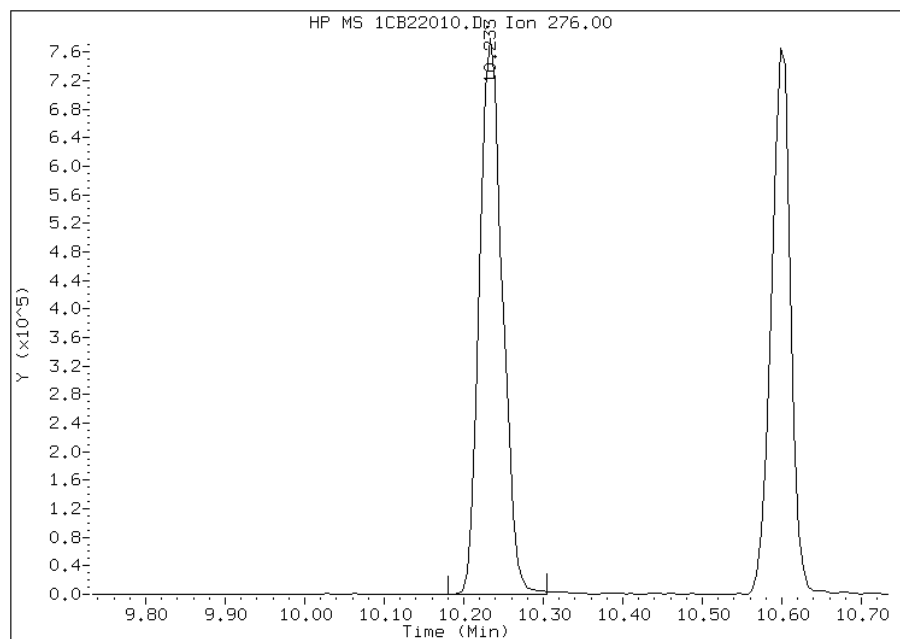


Manual Integration Report

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

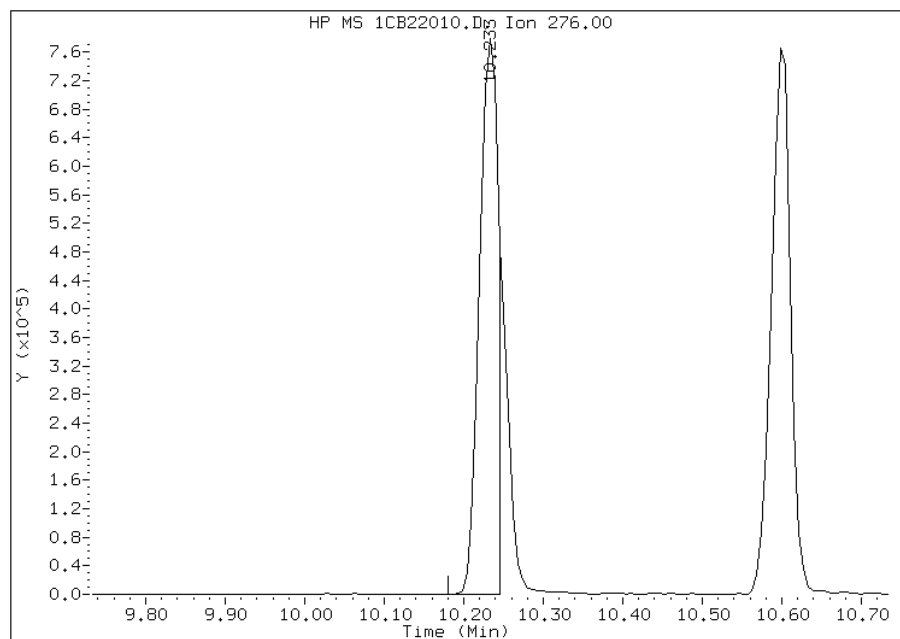
Processing Integration Results

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.: 680-88118-2
 SDG No.: 68088118-2
 Lab Sample ID: CCVIS 660-135469/3 Calibration Date: 03/15/2013 14:42
 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: 1CC15003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.045	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6946	0.6902	0.0000	19900	20000	-0.6	20.0
1-Methylnaphthalene	Ave	0.6326	0.6596	0.0000	20900	20000	4.3	20.0
Acenaphthylene	Ave	1.613	1.591	0.0000	19700	20000	-1.4	20.0
Acenaphthene	Ave	1.002	0.9601	0.0000	19200	20000	-4.2	20.0
Fluorene	Ave	1.268	1.232	0.0000	19400	20000	-2.8	20.0
Phenanthrene	Ave	1.157	1.123	0.0000	19400	20000	-2.9	20.0
Anthracene	Ave	1.131	1.167	0.0000	20600	20000	3.2	20.0
Carbazole	Ave	1.006	0.996	0.0000	19800	20000	-1.0	20.0
Fluoranthene	Ave	1.267	1.251	0.0000	19700	20000	-1.3	20.0
Pyrene	Ave	1.075	1.141	0.0000	21200	20000	6.1	20.0
Benzo[a]anthracene	Ave	1.154	1.083	0.0000	18800	20000	-6.2	20.0
Chrysene	Ave	1.155	1.093	0.0000	18900	20000	-5.4	20.0
Benzo[b]fluoranthene	Ave	1.045	1.118	0.0000	21400	20000	7.0	20.0
Benzo[k]fluoranthene	Ave	1.072	1.074	0.0000	20000	20000	0.2	20.0
Benzo[a]pyrene	Ave	1.015	1.054	0.0000	20800	20000	3.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.021	0.0000	21400	20000	6.9	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9060	0.0000	19400	20000	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9687	0.0000	19400	20000	-3.1	20.0
o-Terphenyl	Ave	0.6039	0.6042	0.0000	20000	20000	0.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 15-MAR-2013 14:42
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	3.751	3.751	(1.000)	946459	40.0000	(H)
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	734532	40.0000	(H)
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1374424	40.0000	(H)
\$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	415232	20.0000	20.0097(H)
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1665181	40.0000	(H)
* 23 Perylene-d12	264	8.927	8.927	(1.000)	1675707	40.0000	(H)
2 Naphthalene	128	3.763	3.763	(1.003)	494462	20.0000	20.0675(H)
3 2-Methylnaphthalene	142	4.186	4.186	(1.116)	326601	20.0000	19.8712(H)
4 1-Methylnaphthalene	142	4.251	4.251	(1.133)	312154	20.0000	20.8531(H)
5 Acenaphthylene	152	4.751	4.751	(0.982)	584214	20.0000	19.7276(H)
7 Acenaphthene	154	4.857	4.857	(1.004)	352616	20.0000	19.1568
9 Fluorene	166	5.174	5.174	(1.069)	452312	20.0000	19.4302(H)
11 Phenanthrene	178	5.804	5.804	(1.003)	772074	20.0000	19.4270(H)
12 Anthracene	178	5.839	5.839	(1.009)	801940	20.0000	20.6325(H)
13 Carbazole	167	5.945	5.945	(1.027)	684126	20.0000	19.8006(H)
15 Fluoranthene	202	6.639	6.639	(1.147)	859565	20.0000	19.7498(H)
16 Pyrene	202	6.810	6.810	(0.881)	950012	20.0000	21.2296(H)
17 Benzo(a)anthracene	228	7.727	7.727	(0.999)	901945	20.0000	18.7669(H)
19 Chrysene	228	7.751	7.751	(1.002)	910383	20.0000	18.9282(H)
20 Benzo(b)fluoranthene	252	8.580	8.580	(0.961)	936862	20.0000	21.3932(H)
21 Benzo(k)fluoranthene	252	8.604	8.604	(0.964)	900124	20.0000	20.0364(H)
22 Benzo(a)pyrene	252	8.874	8.874	(0.994)	882984	20.0000	20.7581(H)
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.109	(1.132)	855733	20.0000	21.3852(MH)
25 Dibenzo(a,h)anthracene	278	10.127	10.127	(1.134)	759115	20.0000	19.3946(H)
26 Benzo(g,h,i)perylene	276	10.462	10.462	(1.172)	811634	20.0000	19.3896(H)

QC Flag Legend

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

Data File: 1CC15003.D

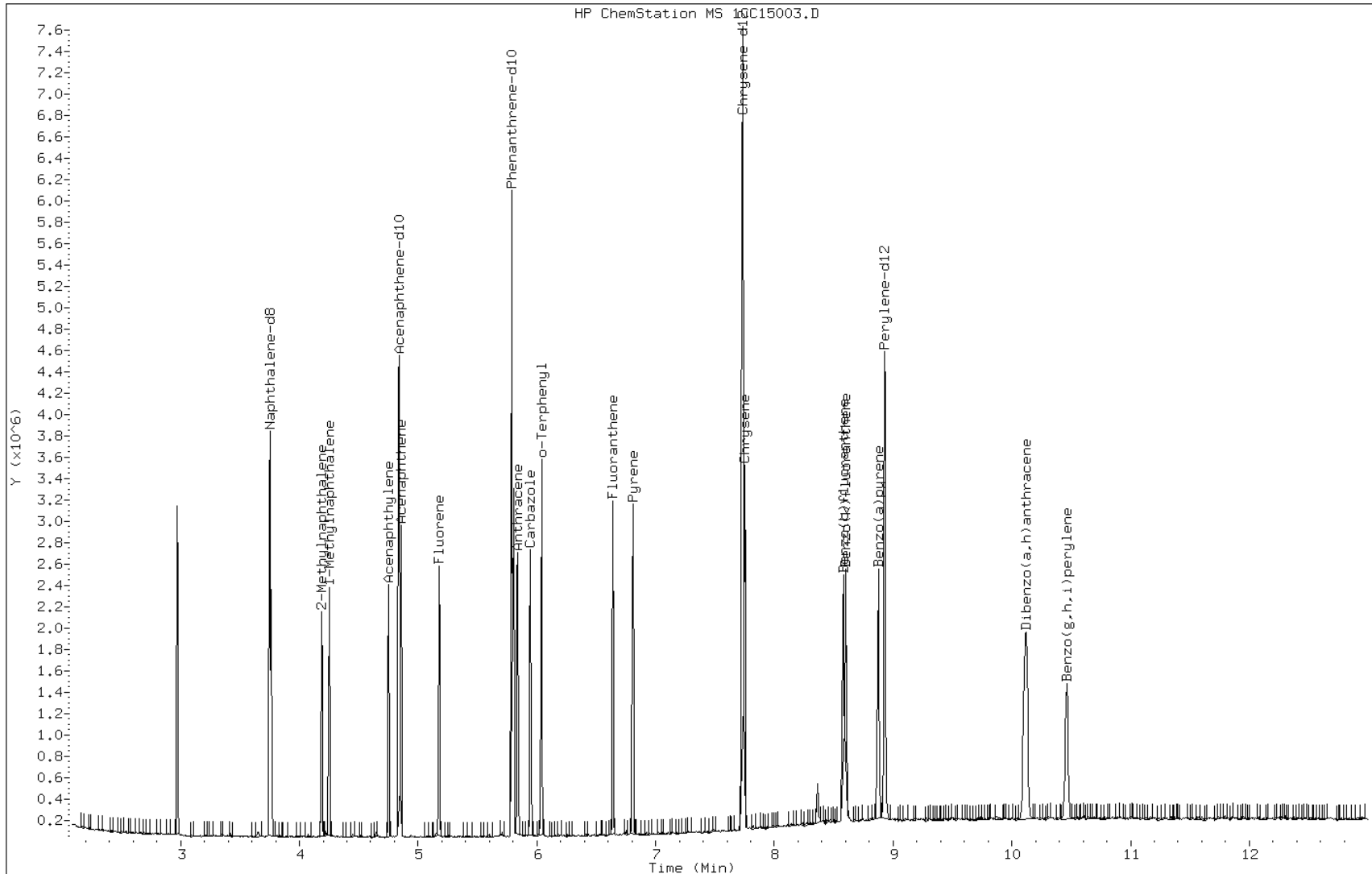
Date: 15-MAR-2013 14:42

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

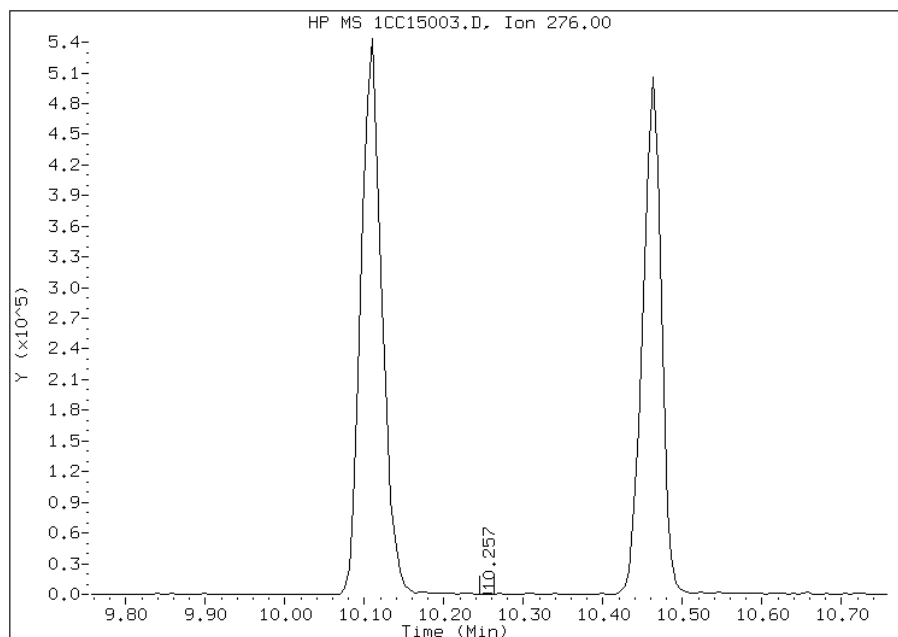


Manual Integration Report

Data File: 1CC15003.D
Inj. Date and Time: 15-MAR-2013 14:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

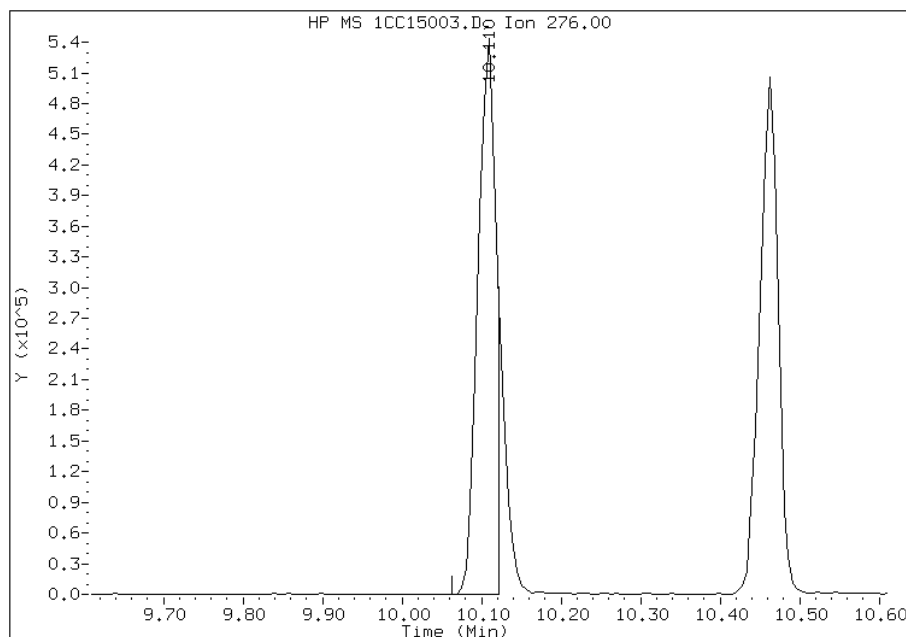
Processing Integration Results

RT: 10.26
Response: 660
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.11
Response: 855733
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 15:05
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Lab Sample ID: CCVIS 660-135536/3 Calibration Date: 03/19/2013 11:18
 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: 1CC19003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.101	0.0000	21200	20000	5.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6898	0.0000	19900	20000	-0.7	20.0
1-Methylnaphthalene	Ave	0.6326	0.6796	0.0000	21500	20000	7.4	20.0
Acenaphthylene	Ave	1.613	1.580	0.0000	19600	20000	-2.0	20.0
Acenaphthene	Ave	1.002	0.9652	0.0000	19300	20000	-3.7	20.0
Fluorene	Ave	1.268	1.218	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Ave	1.157	1.114	0.0000	19300	20000	-3.7	20.0
Anthracene	Ave	1.131	1.103	0.0000	19500	20000	-2.5	20.0
Carbazole	Ave	1.006	1.002	0.0000	19900	20000	-0.4	20.0
Fluoranthene	Ave	1.267	1.241	0.0000	19600	20000	-2.0	20.0
Pyrene	Ave	1.075	1.098	0.0000	20400	20000	2.2	20.0
Benzo[a]anthracene	Ave	1.154	1.069	0.0000	18500	20000	-7.4	20.0
Chrysene	Ave	1.155	1.085	0.0000	18800	20000	-6.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.050	0.0000	19600	20000	-2.1	20.0
Benzo[a]pyrene	Ave	1.015	1.034	0.0000	20400	20000	1.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8699	0.0000	18200	20000	-8.9	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8804	0.0000	18800	20000	-5.8	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9540	0.0000	19100	20000	-4.5	20.0
o-Terphenyl	Ave	0.6039	0.5821	0.0000	19300	20000	-3.6	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 19-MAR-2013 11:18
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\a-bFASTPAHi-m.m
 Meth Date : 19-Mar-2013 11:39 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	3.745	3.745	(1.000)	865475	40.0000	(H)
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	693688	40.0000	(H)
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1269350	40.0000	(H)
\$ 14 o-Terphenyl	230	6.033	6.033	(1.044)	369429	20.0000	19.2762(H)
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1624187	40.0000	(H)
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1682198	40.0000	(H)
2 Naphthalene	128	3.757	3.757	(1.003)	476619	20.0000	21.1533(H)
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	298514	20.0000	19.8617(H)
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	294078	20.0000	21.4838(H)
5 Acenaphthylene	152	4.745	4.745	(0.983)	547941	20.0000	19.5921(H)
7 Acenaphthene	154	4.851	4.851	(1.005)	334759	20.0000	19.2575(H)
9 Fluorene	166	5.168	5.168	(1.071)	422482	20.0000	19.2174(H)
11 Phenanthrene	178	5.792	5.792	(1.002)	706784	20.0000	19.2563(H)
12 Anthracene	178	5.827	5.827	(1.008)	699799	20.0000	19.4950(H)
13 Carbazole	167	5.933	5.933	(1.026)	635651	20.0000	19.9205(H)
15 Fluoranthene	202	6.633	6.633	(1.148)	787845	20.0000	19.6004(H)
16 Pyrene	202	6.798	6.798	(0.880)	891783	20.0000	20.4313(H)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	867843	20.0000	18.5131(H)
19 Chrysene	228	7.745	7.745	(1.003)	881245	20.0000	18.7849(H)
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	871023	20.0000	19.8130(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	883468	20.0000	19.5898(H)
22 Benzo(a)pyrene	252	8.856	8.856	(0.994)	869504	20.0000	20.3623(H)
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	731657	20.0000	18.2139(MH)
25 Dibenzo(a,h)anthracene	278	10.097	10.097	(1.133)	740460	20.0000	18.8450(H)
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	802375	20.0000	19.0944(H)

QC Flag Legend

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

Data File: 1CC19003.D

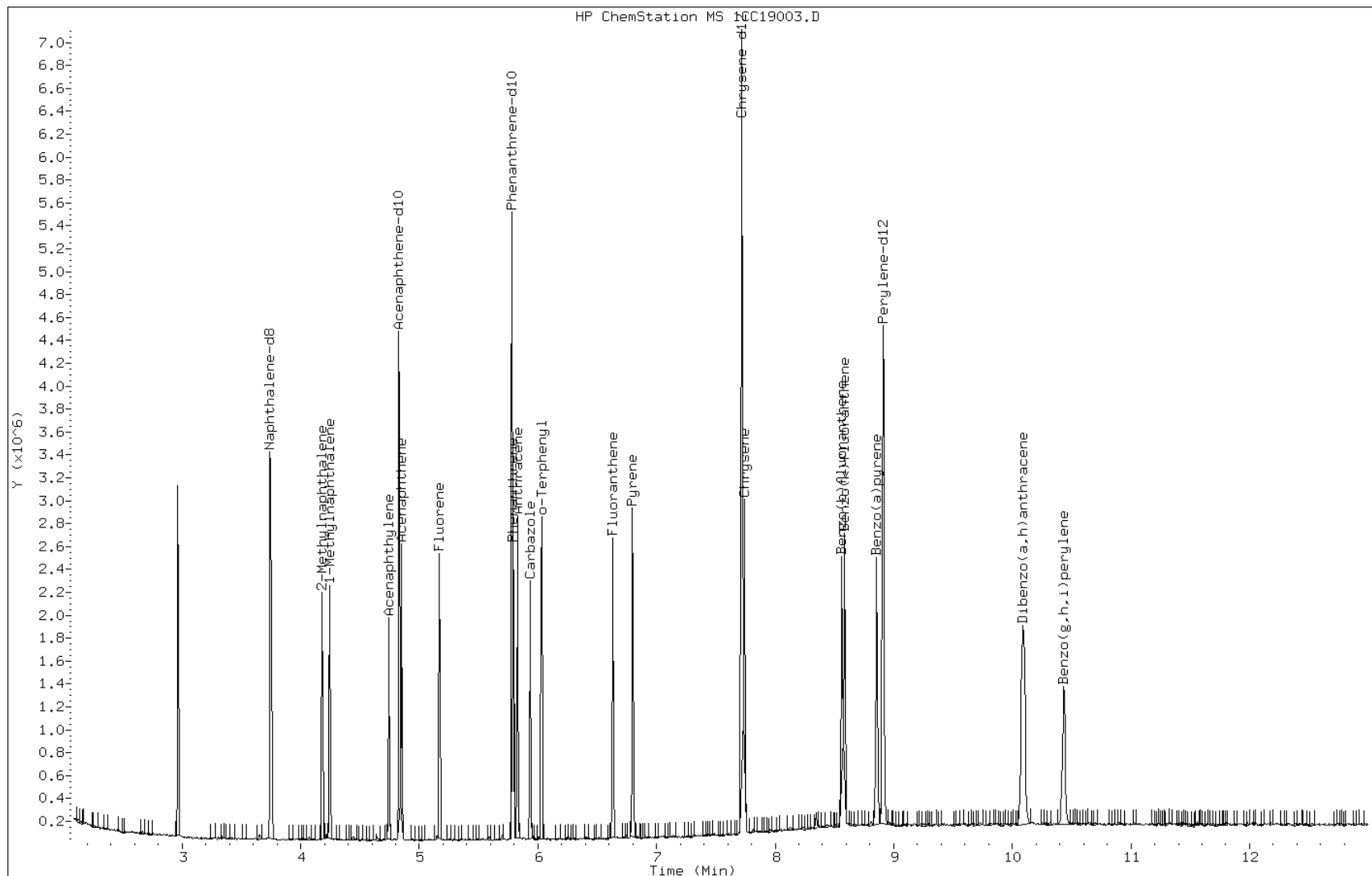
Date: 19-MAR-2013 11:18

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

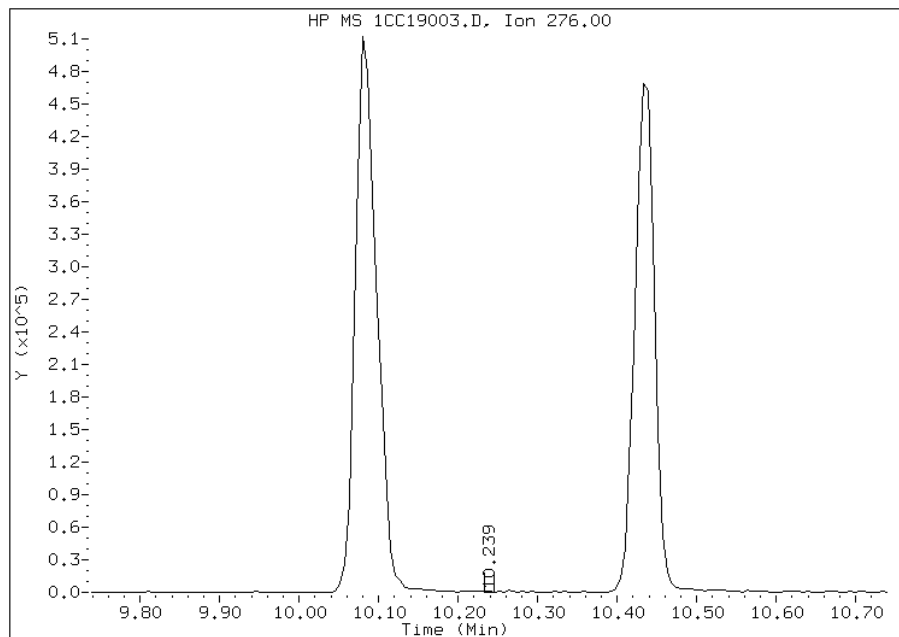


Manual Integration Report

Data File: 1CC19003.D
Inj. Date and Time: 19-MAR-2013 11:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/19/2013

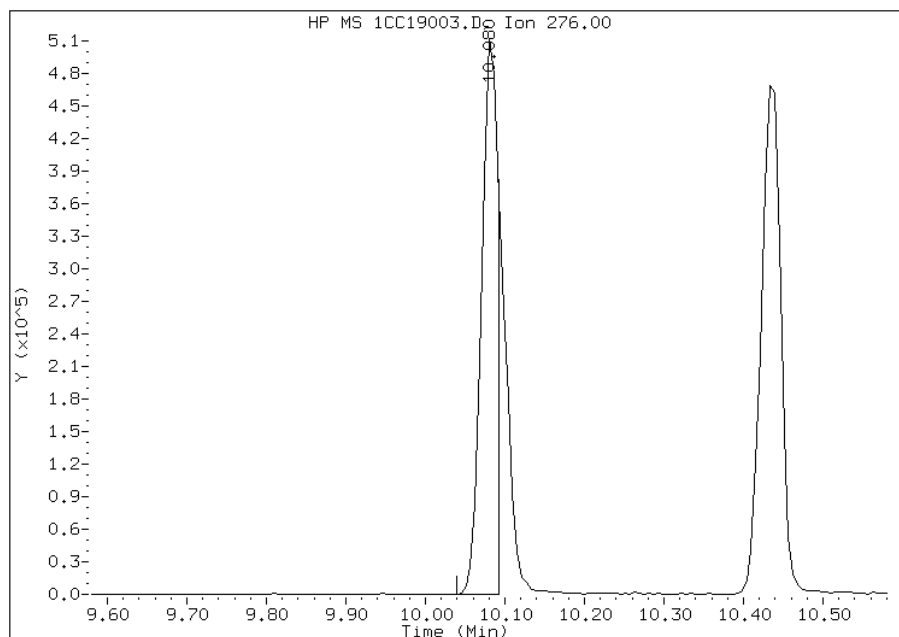
Processing Integration Results

RT: 10.24
Response: 622
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.08
Response: 731657
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 11:41
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

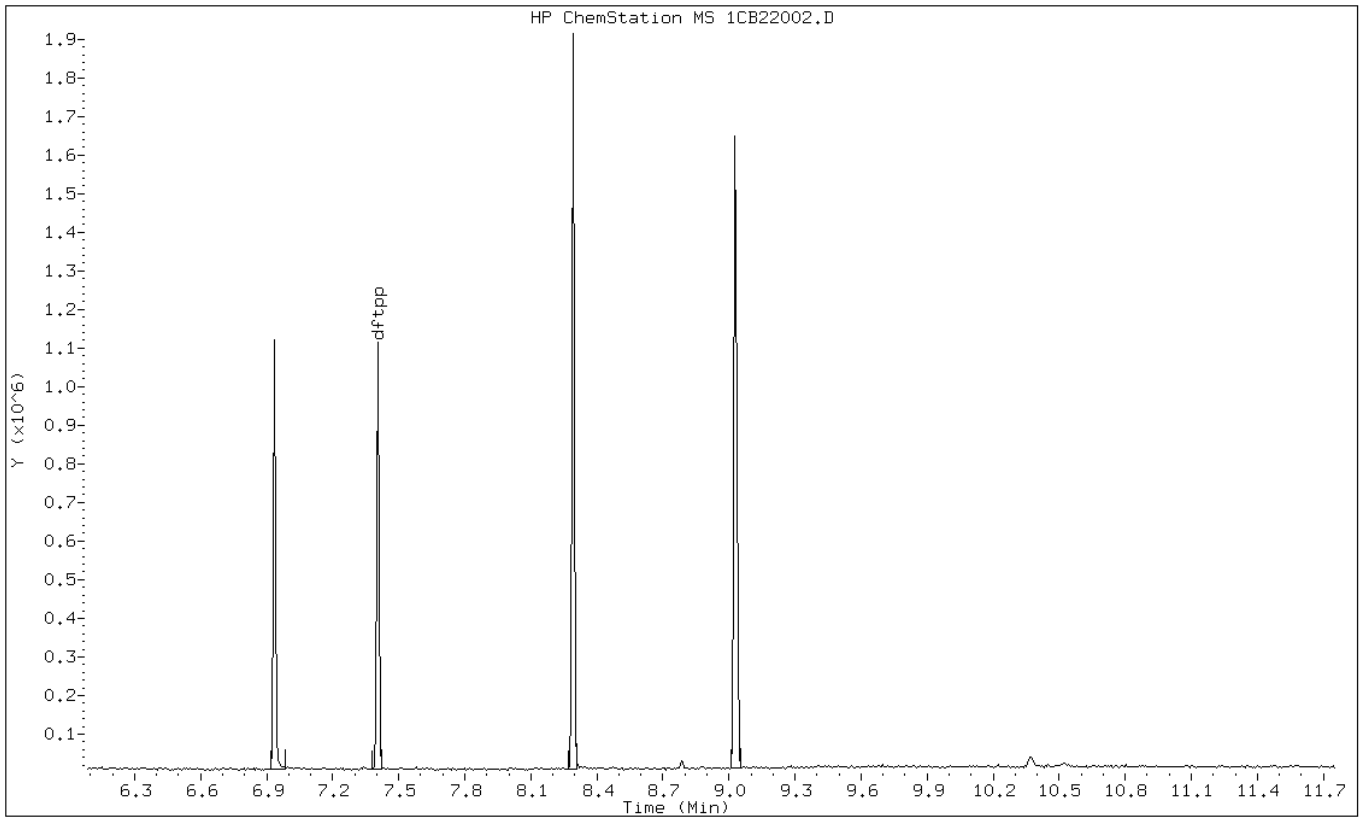
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

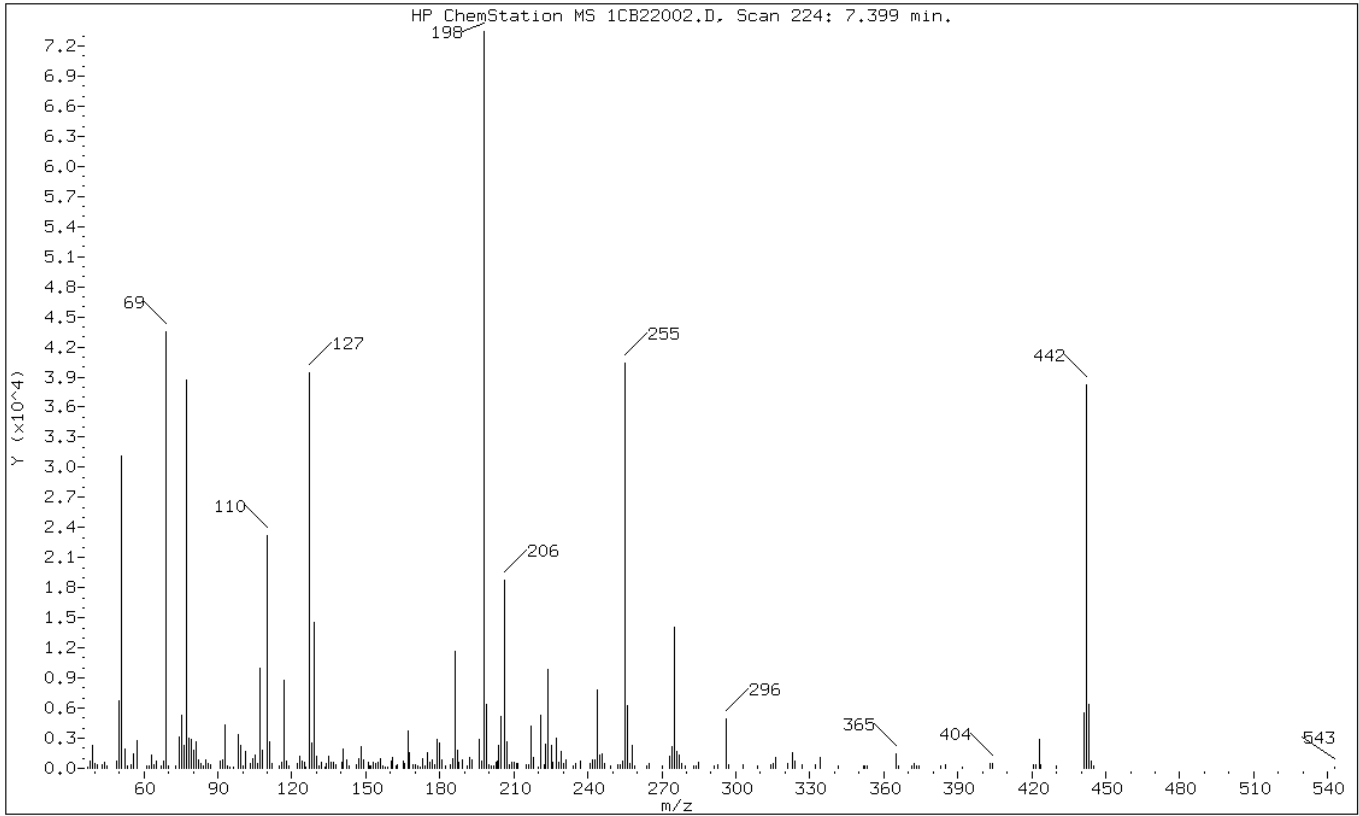
Client ID: DFTPP

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\1C031513.b\1CC15002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 15-MAR-2013 14:13
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.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				
7.345	7.469	-0.124	198	136064			50.00-	0.00	100.00
7.345	7.469	-0.124	51	41336			10.00-	80.00	30.38
7.345	7.469	-0.124	68	0	0.0	0.0	0.00-	2.00	0.00
7.345	7.469	-0.124	69	50832			0.00-	0.00	37.36
7.345	7.469	-0.124	70	161			0.00-	2.00	0.32
7.345	7.469	-0.124	127	56688			10.00-	80.00	41.66
7.345	7.469	-0.124	197	1129			0.00-	2.00	0.83
7.345	7.469	-0.124	442	134336			50.00-	0.00	98.73
7.345	7.469	-0.124	199	8450			5.00-	9.00	6.21
7.345	7.469	-0.124	275	34808			10.00-	60.00	25.58
7.345	7.469	-0.124	365	7036			1.00-	0.00	5.17
7.345	7.469	-0.124	441	20720			0.01-	99.99	76.81
7.345	7.469	-0.124	443	26976			15.00-	24.00	20.08

Data File: 1CC15002.D

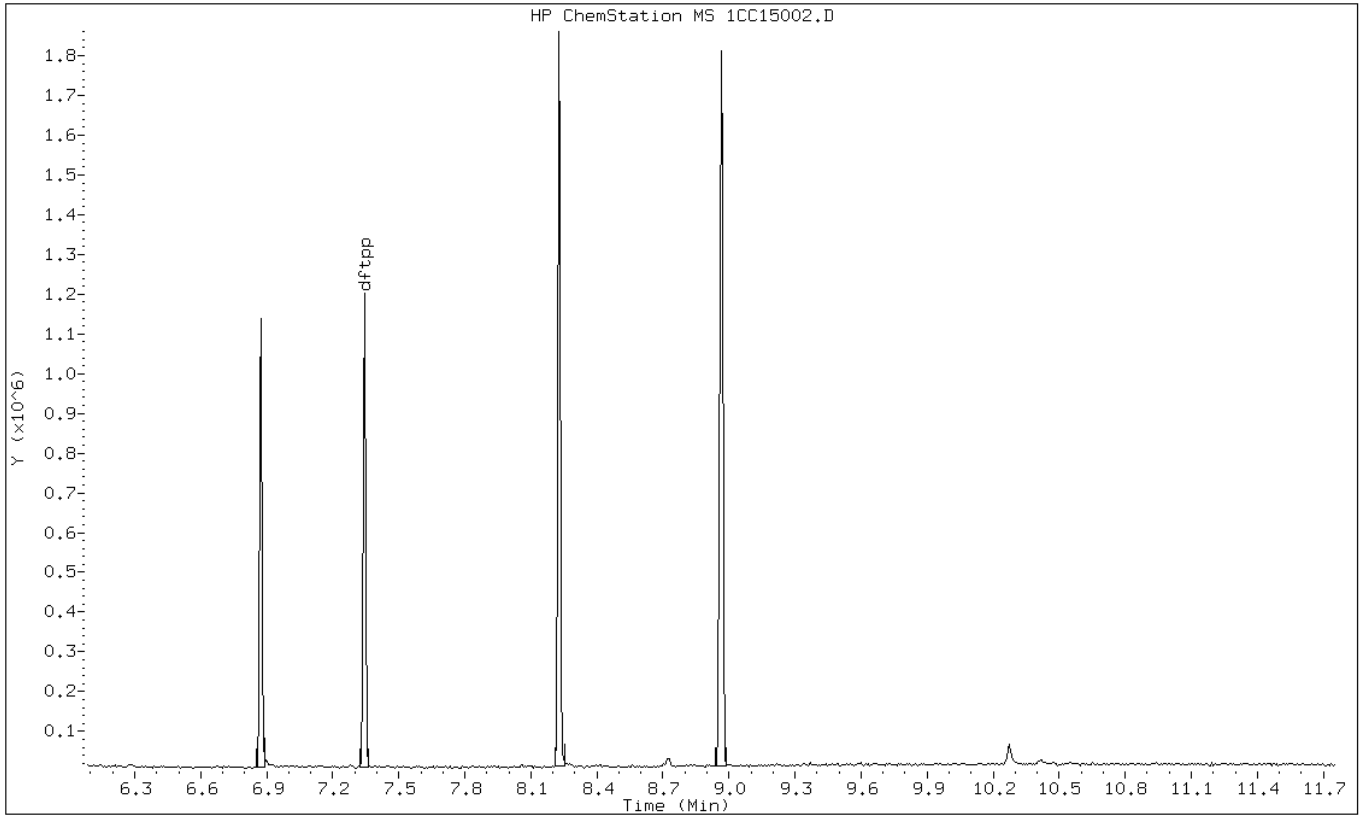
Date: 15-MAR-2013 14:13

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC15002.D

Date: 15-MAR-2013 14:13

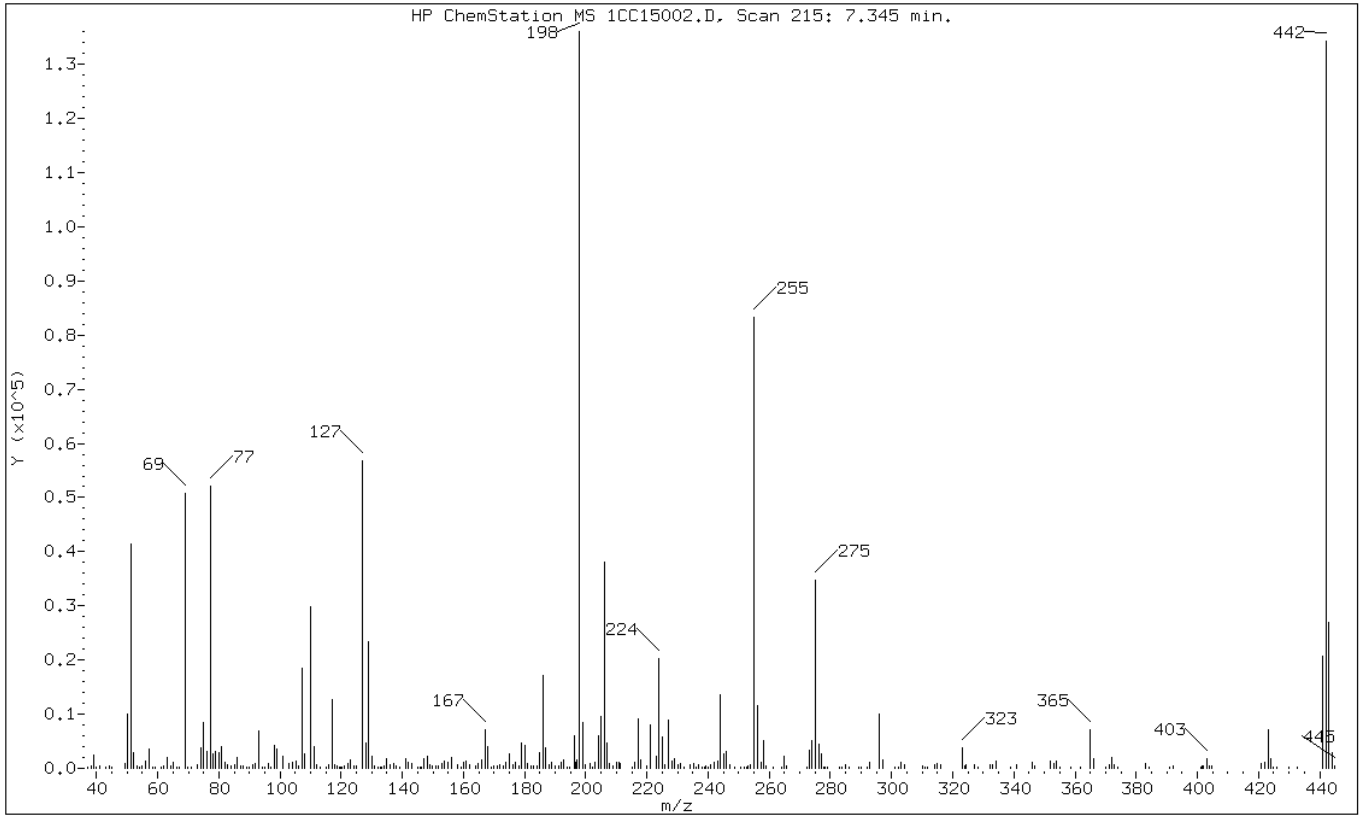
Client ID: DFTPP

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	30.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.36
70	Less than 2.00% of mass 69	0.12 (0.32)
127	10.00 - 80.00% of mass 198	41.66
197	Less than 2.00% of mass 198	0.83
442	Greater than 50.00% of mass 198	98.73
199	5.00 - 9.00% of mass 198	6.21
275	10.00 - 60.00% of mass 198	25.58
365	Greater than 1.00% of mass 198	5.17
441	Present, but less than mass 443	15.23
443	15.00 - 24.00% of mass 442	19.83 (20.08)

Data File: 1CC15002.D

Date: 15-MAR-2013 14:13

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15002.D

Spectrum: HP ChemStation MS 1CC15002.D, Scan 215: 7.345 min.

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	281	119.80	193	194.90	311	278.20	261
38.20	500	120.20	222	196.10	6106	279.10	251
39.10	2374	121.10	386	196.70	1129	282.80	288
39.90	322	122.10	927	197.10	1477	283.90	210
41.00	522	123.10	1624	198.00	136064	285.10	626
43.00	277	124.00	522	199.10	8450	286.10	325
44.10	522	125.10	537	200.00	666	289.10	232
45.00	183	127.10	56688	201.40	844	290.00	151
49.20	900	128.10	4622	202.10	294	291.90	239
50.10	10031	129.00	23344	203.10	1182	292.90	1157
51.10	41336	130.00	2321	204.00	5903	296.00	10066
52.20	2790	131.00	477	205.10	9638	297.00	1533
53.20	349	132.10	167	206.10	38120	301.00	197
54.00	255	132.70	227	207.10	4688	302.10	284
54.90	506	133.30	207	207.90	802	303.00	1027
56.00	1303	134.10	374	208.90	476	304.20	705
57.00	3598	135.00	1705	210.00	1096	310.00	487
58.20	243	136.10	706	210.70	1099	311.00	166
59.00	217	137.00	899	211.10	910	311.90	313
61.10	311	137.90	396	215.00	247	314.00	627
62.10	386	139.10	185	215.90	1150	315.00	822
63.10	2115	141.00	1844	217.00	9117	316.10	585
64.10	453	142.10	1122	218.00	1484	323.00	3854
65.00	1141	143.10	892	219.80	422	323.80	338
66.20	233	145.10	236	221.10	8092	324.20	581
66.90	168	145.80	194	223.00	2162	326.90	746
69.00	50832	146.30	280	224.00	20256	328.30	216
69.90	161	147.00	1782	225.00	5708	332.20	656
71.10	278	148.10	2297	225.90	674	332.90	610
73.10	657	149.00	681	227.00	8911	334.00	1349
74.10	3831	149.90	346	228.10	1287	339.00	160
75.10	8389	151.00	515	229.00	1746	340.90	638
76.10	3155	151.80	424	230.10	621	346.10	1223
77.10	52016	153.10	818	231.10	917	346.80	342
78.00	2622	153.90	1325	232.00	259	352.10	1235
79.00	3158	155.00	1130	234.00	702	352.90	782
80.00	2845	156.10	1977	235.10	935	354.00	1369
81.00	4103	157.90	671	236.00	290	354.90	324
82.00	1191	159.10	229	236.70	743	358.80	206
82.90	644	160.10	1208	238.00	275	361.60	184

84.00	449	161.00	1395	238.70	185	365.00	7036
85.00	763	162.00	608	239.30	429	366.00	1691
86.00	2080	163.90	464	240.00	315	370.10	278
87.00	484	164.90	964	240.80	705	371.10	630
87.80	359	165.90	1555	242.10	1182	372.10	2053
89.00	194	167.10	7113	243.10	1352	372.90	669
89.90	161	168.10	3919	244.10	13549	374.10	164
91.10	632	169.00	159	245.10	2569	382.90	880
92.00	811	170.00	421	246.10	3032	384.10	243
93.00	6957	170.90	447	247.10	636	391.10	153
94.10	270	171.80	778	248.80	281	392.10	404
95.10	290	172.90	425	250.50	195	401.10	298
96.10	838	173.90	1063	250.80	202	401.70	474
96.90	333	175.00	2736	251.80	174	402.10	420
98.00	4186	176.00	711	252.70	298	403.10	1819
99.10	3643	177.00	1191	253.20	361	403.90	374
101.00	2274	178.10	540	253.90	577	404.90	410
103.00	813	179.00	4684	255.10	83256	420.90	876
103.90	1093	180.00	4327	256.00	11658	422.10	1168
105.10	1348	181.00	838	257.20	1055	423.10	7203
106.20	457	182.10	431	258.00	5128	423.90	1792
107.10	18480	183.00	407	258.80	487	424.80	266
108.00	2738	184.10	457	261.10	279	425.80	173
110.00	29896	185.00	2873	263.90	216	429.80	161
111.10	4058	186.10	17136	265.00	2151	432.60	195
111.90	611	187.00	3843	265.80	408	441.00	20720
113.00	164	188.00	758	272.20	213	442.00	134336
115.20	224	188.80	1009	273.00	3290	443.00	26976
116.00	674	189.90	398	274.00	5106	444.00	2824
117.00	12781	191.10	361	275.00	34808	444.90	336
118.00	611	192.00	1194	276.10	4479		
118.80	436	192.90	1618	277.00	2563		
119.30	177	194.10	238	277.80	312		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 19-MAR-2013 10:57
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.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				
7.339	7.469	-0.130	198	121464			50.00-	0.00	100.00
7.339	7.469	-0.130	51	41972			10.00-	80.00	34.56
7.339	7.469	-0.130	68	1087			0.00-	2.00	1.91
7.339	7.469	-0.130	69	56828			0.00-	0.00	46.79
7.339	7.469	-0.130	70	432			0.00-	2.00	0.76
7.339	7.469	-0.130	127	55992			10.00-	80.00	46.10
7.339	7.469	-0.130	197	603			0.00-	2.00	0.50
7.339	7.469	-0.130	442	97832			50.00-	0.00	80.54
7.339	7.469	-0.130	199	9235			5.00-	9.00	7.60
7.339	7.469	-0.130	275	27396			10.00-	60.00	22.55
7.339	7.469	-0.130	365	2988			1.00-	0.00	2.46
7.339	7.469	-0.130	441	15691			0.01-	99.99	81.22
7.339	7.469	-0.130	443	19320			15.00-	24.00	19.75

Data File: 1CC19002.D

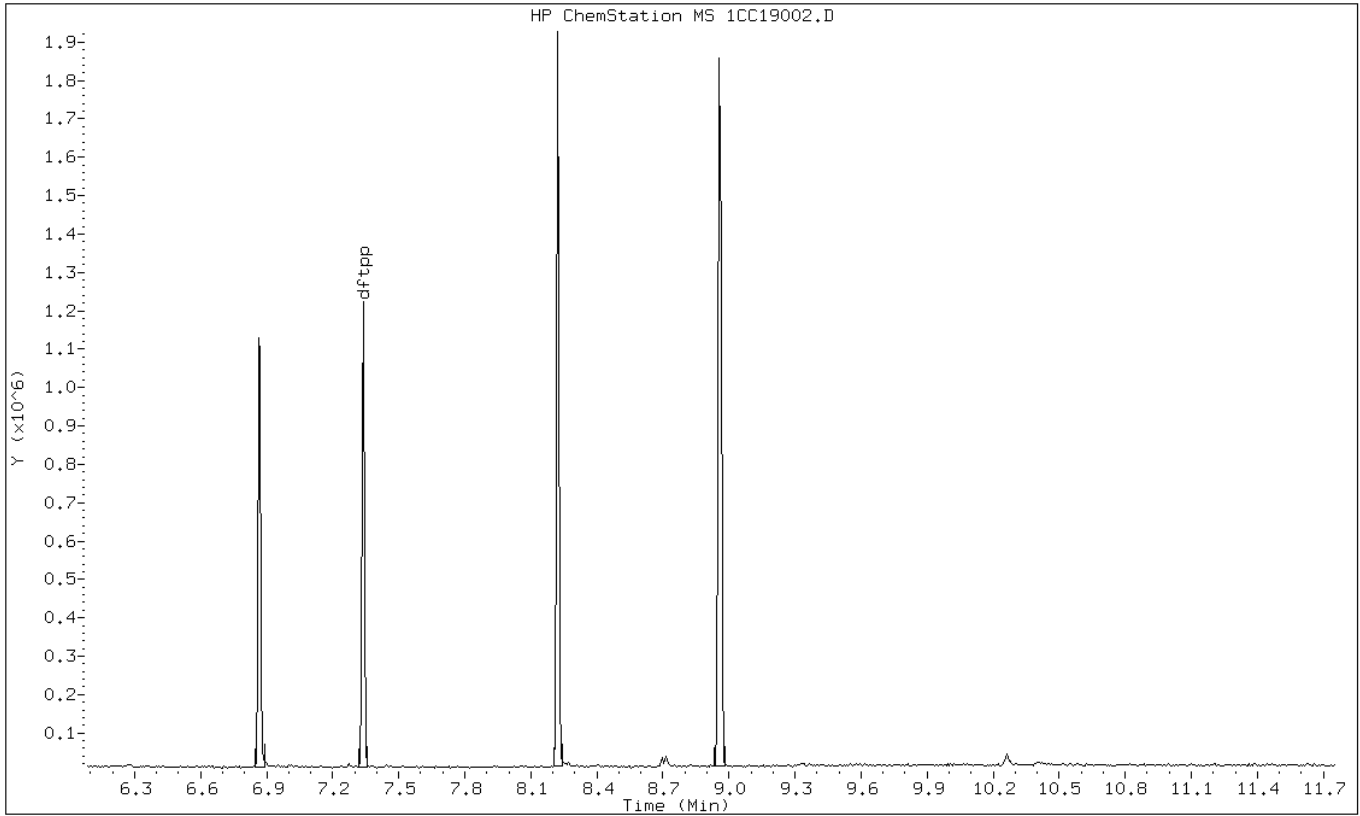
Date: 19-MAR-2013 10:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC19002.D

Date: 19-MAR-2013 10:57

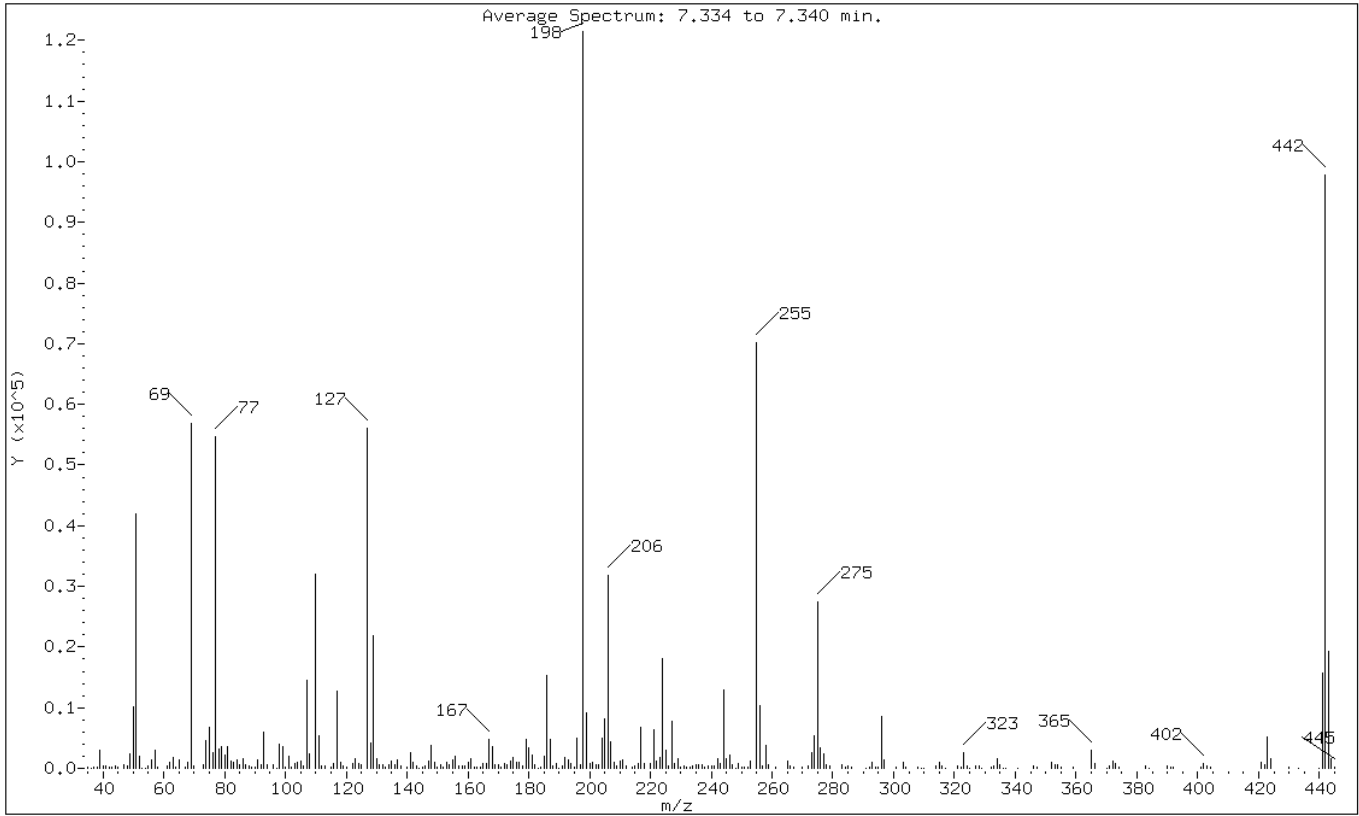
Client ID: DFTPP

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	34.56
68	Less than 2.00% of mass 69	0.89 (1.91)
69	Mass 69 relative abundance	46.79
70	Less than 2.00% of mass 69	0.36 (0.76)
127	10.00 - 80.00% of mass 198	46.10
197	Less than 2.00% of mass 198	0.50
442	Greater than 50.00% of mass 198	80.54
199	5.00 - 9.00% of mass 198	7.60
275	10.00 - 60.00% of mass 198	22.55
365	Greater than 1.00% of mass 198	2.46
441	Present, but less than mass 443	12.92
443	15.00 - 24.00% of mass 442	15.91 (19.75)

Data File: 1CC19002.D

Date: 19-MAR-2013 10:57

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031913.b\1CC19002.D

Spectrum: Average Spectrum: 7.334 to 7.340 min.

Location of Maximum: 198.00

Number of points: 294

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	110	118.00	986	195.00	140	279.00	328
36.00	93	119.00	347	196.00	4961	283.00	528
37.00	156	120.00	222	197.00	603	284.00	119
38.00	272	122.00	796	198.00	121464	285.00	475
39.00	2885	123.00	1678	199.00	9235	286.00	201
40.00	415	124.00	707	200.00	718	291.00	75
41.00	487	125.00	527	201.00	986	292.00	256
42.00	276	127.00	55992	202.00	644	293.00	973
43.00	193	128.00	4250	203.00	691	294.00	228
44.00	446	129.00	21960	204.00	5046	295.00	251
45.00	141	130.00	1540	205.00	8217	296.00	8593
47.00	590	131.00	614	206.00	31896	297.00	1348
48.00	369	132.00	533	207.00	4345	301.00	275
49.00	2298	133.00	124	208.00	1043	303.00	1013
50.00	10227	134.00	527	209.00	425	304.00	269
51.00	41968	135.00	1192	210.00	1157	308.00	201
52.00	1948	136.00	597	211.00	1335	309.00	75
53.00	76	137.00	1322	212.00	396	310.00	84
54.00	88	138.00	319	214.00	186	314.00	405
55.00	319	140.00	265	215.00	461	315.00	991
56.00	1460	141.00	2682	216.00	774	316.00	337
57.00	2931	142.00	1027	217.00	6684	317.00	75
58.00	165	143.00	440	218.00	771	321.00	307
61.00	306	144.00	98	220.00	789	322.00	105
62.00	981	145.00	118	221.00	6327	323.00	2681
63.00	1859	146.00	479	222.00	1144	324.00	465
64.00	103	147.00	1279	223.00	1873	325.00	90
65.00	1309	148.00	3702	224.00	18032	327.00	469
67.00	210	149.00	1008	225.00	3075	328.00	412
68.00	1087	150.00	127	226.00	392	329.00	77
69.00	56824	151.00	576	227.00	7795	332.00	213
70.00	432	152.00	165	228.00	850	333.00	327
73.00	507	153.00	969	229.00	1626	334.00	1614
74.00	4519	154.00	622	230.00	169	335.00	508
75.00	6714	155.00	1427	231.00	491	336.00	81
76.00	2636	156.00	1923	232.00	100	337.00	75
77.00	54576	157.00	492	233.00	252	341.00	92
78.00	3193	158.00	439	234.00	479	346.00	477
79.00	3488	159.00	491	235.00	578	347.00	237
80.00	2233	160.00	967	236.00	506	352.00	939

81.00	3660	161.00	1581	237.00	529	353.00	678
82.00	1248	162.00	182	238.00	135	354.00	657
83.00	933	163.00	147	239.00	430	355.00	101
84.00	1358	164.00	175	240.00	322	359.00	112
85.00	647	165.00	882	241.00	415	365.00	2988
86.00	1510	166.00	815	242.00	1601	366.00	745
87.00	508	167.00	4715	243.00	822	370.00	79
88.00	351	168.00	3656	244.00	12905	371.00	311
89.00	290	169.00	659	245.00	1543	372.00	1290
90.00	123	170.00	557	246.00	2146	373.00	709
91.00	1408	171.00	136	247.00	523	374.00	148
92.00	687	172.00	764	248.00	76	383.00	384
93.00	6024	173.00	590	249.00	833	384.00	83
94.00	632	174.00	1202	250.00	215	390.00	321
96.00	623	175.00	1831	251.00	250	391.00	260
97.00	75	176.00	1023	252.00	247	392.00	197
98.00	4033	177.00	985	253.00	1096	401.00	280
99.00	3604	178.00	324	255.00	70144	402.00	819
100.00	189	179.00	4856	256.00	10310	403.00	428
101.00	1972	180.00	3358	257.00	490	404.00	113
102.00	225	181.00	2095	258.00	3820	421.00	930
103.00	713	182.00	512	259.00	652	422.00	627
104.00	1030	183.00	98	261.00	158	423.00	5144
105.00	1128	184.00	227	265.00	1199	424.00	1681
106.00	309	185.00	1911	266.00	429	430.00	142
107.00	14440	186.00	15270	267.00	148	433.00	81
108.00	2349	187.00	4695	270.00	242	440.00	88
110.00	31952	188.00	390	272.00	313	441.00	15691
111.00	5270	189.00	767	273.00	2590	442.00	97832
112.00	368	190.00	79	274.00	5391	443.00	19320
113.00	407	191.00	348	275.00	27392	444.00	1641
115.00	257	192.00	1847	276.00	3321	445.00	139
116.00	820	193.00	1470	277.00	2296		
117.00	12690	194.00	701	278.00	660		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: _____ Lab Sample ID: MB 660-135392/1-A
 Matrix: Solid Lab File ID: 1CC15006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.00(g) Date Analyzed: 03/15/2013 16:51
 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.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15006.D
 Lab Smp Id: mb 660-135392/1-a
 Inj Date : 15-MAR-2013 16:51
 Operator : SCC
 Smp Info : mb 660-135392/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.751	3.751	(1.000)	939347	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	723507	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1400314	40.0000	
\$ 14 o-Terphenyl	230		6.045	6.039	(1.044)	141488	6.69216	446.1439
* 18 Chrysene-d12	240		7.739	7.733	(1.000)	1658692	40.0000	
* 23 Perylene-d12	264		8.945	8.927	(1.000)	1746584	40.0000	

Data File: 1CC15006.D

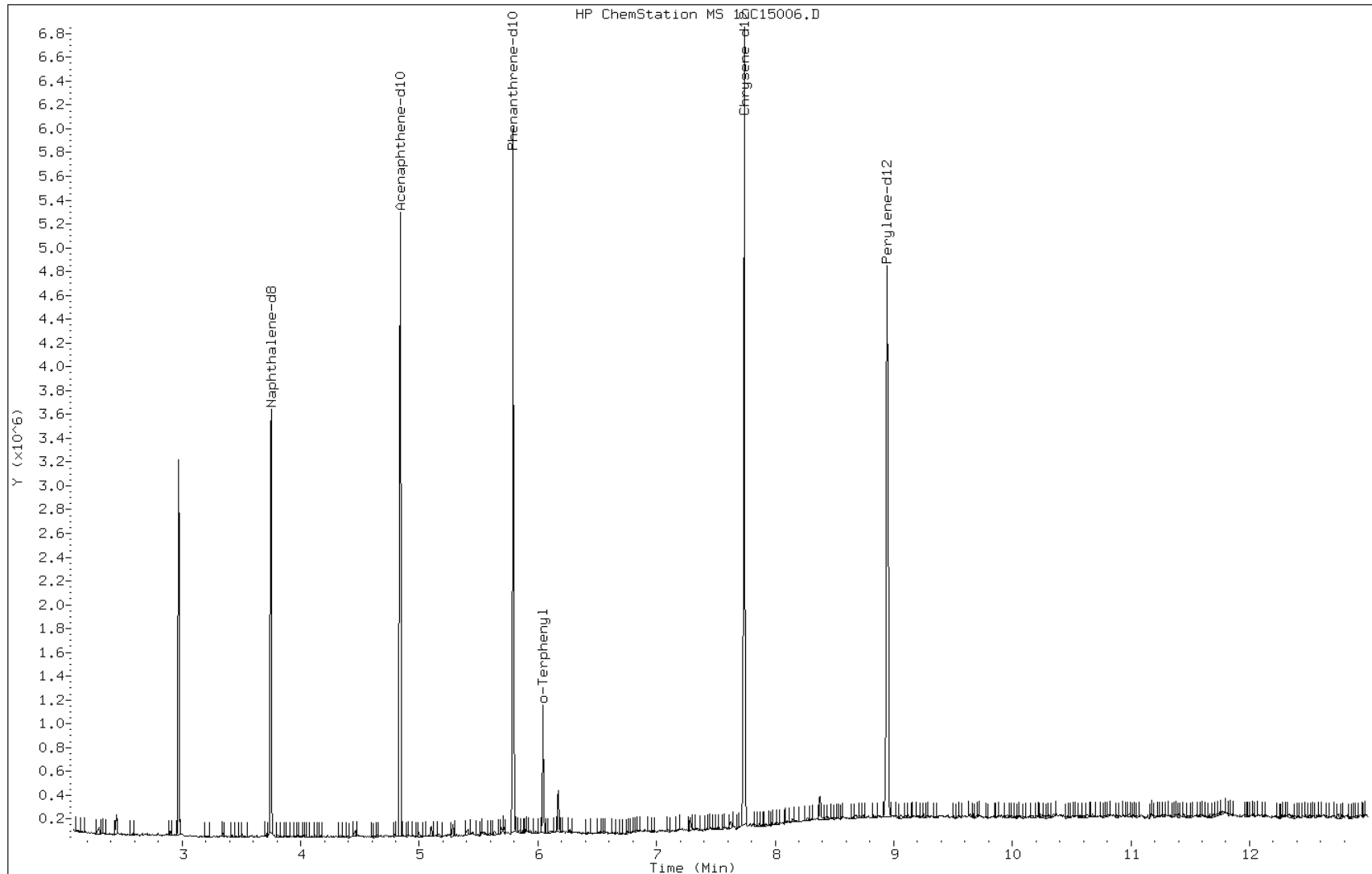
Date: 15-MAR-2013 16:51

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135392/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-135392/2-A
 Matrix: Solid Lab File ID: 1CC15007.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.17(g) Date Analyzed: 03/15/2013 17:09
 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.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		99	20
208-96-8	Acenaphthylene	499		40	4.9
120-12-7	Anthracene	482		8.3	4.2
56-55-3	Benzo[a]anthracene	483		7.9	3.9
50-32-8	Benzo[a]pyrene	451		10	5.1
205-99-2	Benzo[b]fluoranthene	451		12	6.0
191-24-2	Benzo[g,h,i]perylene	483		20	4.4
207-08-9	Benzo[k]fluoranthene	550		7.9	3.6
218-01-9	Chrysene	458		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	475		20	4.1
206-44-0	Fluoranthene	497		20	4.0
86-73-7	Fluorene	539		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	441		20	7.0
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	494		40	7.0
91-20-3	Naphthalene	490		40	4.4
85-01-8	Phenanthrene	493		7.9	3.9
129-00-0	Pyrene	499		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15007.D
 Lab Smp Id: lcs 660-135392/2-a
 Inj Date : 15-MAR-2013 17:09
 Operator : SCC
 Smp Info : lcs 660-135392/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.745	3.751	(1.000)	970938	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	740042	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1413817	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	152604	7.14899	471.2585
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1770209	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1805371	40.0000	
2 Naphthalene	128		3.763	3.763	(1.005)	187835	7.43101	489.8489
3 2-Methylnaphthalene	142		4.186	4.186	(1.118)	126324	7.49209	493.8751
4 1-Methylnaphthalene	142		4.251	4.251	(1.135)	118538	7.71916	508.8439
5 Acenaphthylene	152		4.745	4.751	(0.982)	225631	7.56233	498.5057
7 Acenaphthene	154		4.857	4.857	(1.005)	136709	7.37180	485.9462
9 Fluorene	166		5.174	5.174	(1.071)	191861	8.18054	539.2579
11 Phenanthrene	178		5.798	5.804	(1.002)	306046	7.48620	493.4873
12 Anthracene	178		5.833	5.839	(1.008)	292379	7.31282	482.0580

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.939	5.945	(1.026)	281198	7.91195	521.5521
15 Fluoranthene	202	6.639	6.639	(1.147)	337431	7.53699	496.8350
16 Pyrene	202	6.804	6.810	(0.880)	360331	7.57446	499.3053
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	374676	7.33341	483.4152
19 Chrysene	228	7.745	7.751	(1.002)	355589	6.95460	458.4444
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	323117	6.84845	451.4467
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	403750	8.34187	549.8923
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	313792	6.84713	451.3598
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	288704	6.69670	441.4433(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	303890	7.20647	475.0477
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	330253	7.32298	482.7278

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC15007.D

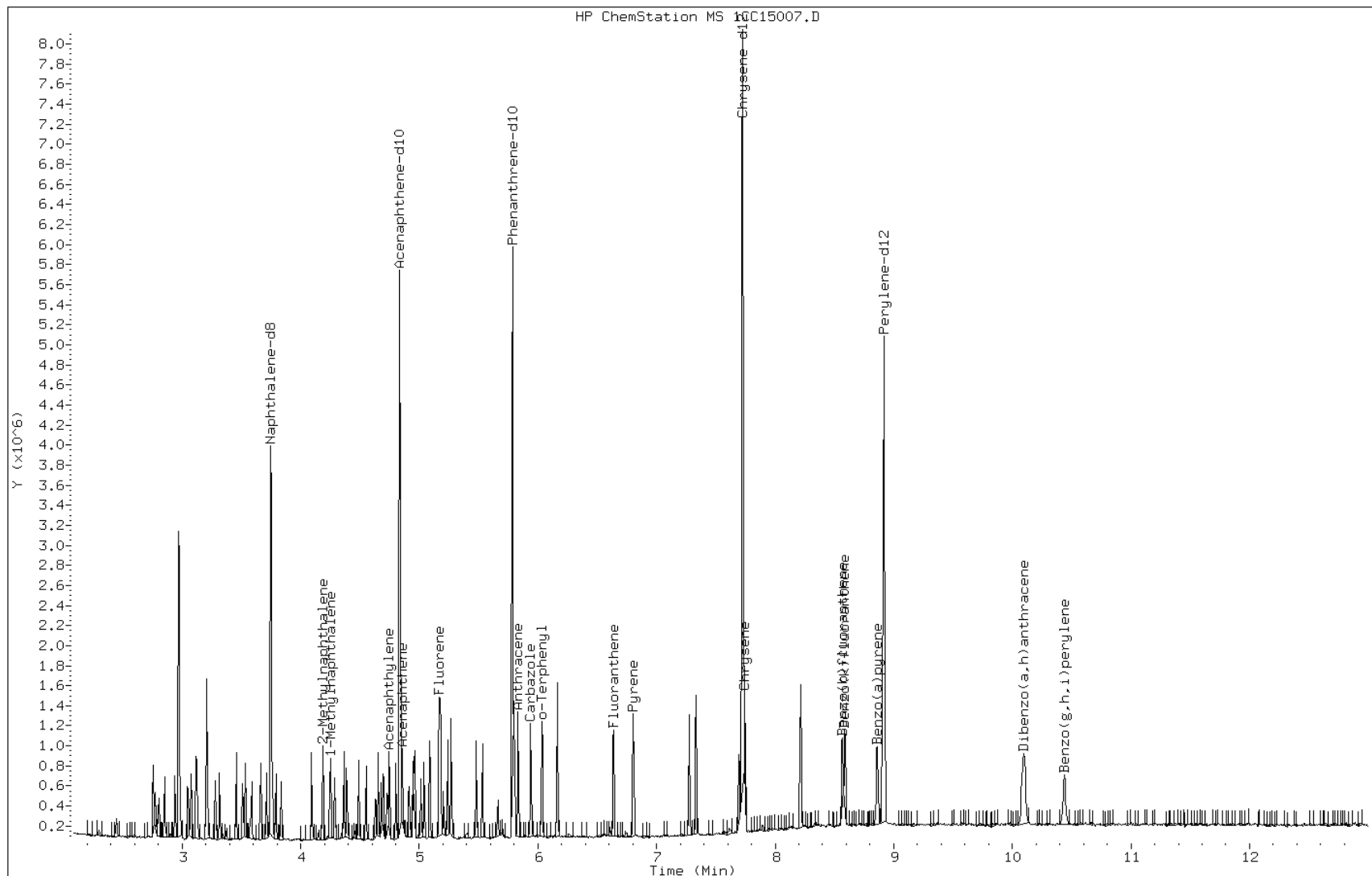
Date: 15-MAR-2013 17:09

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135392/2-a

Operator: SCC

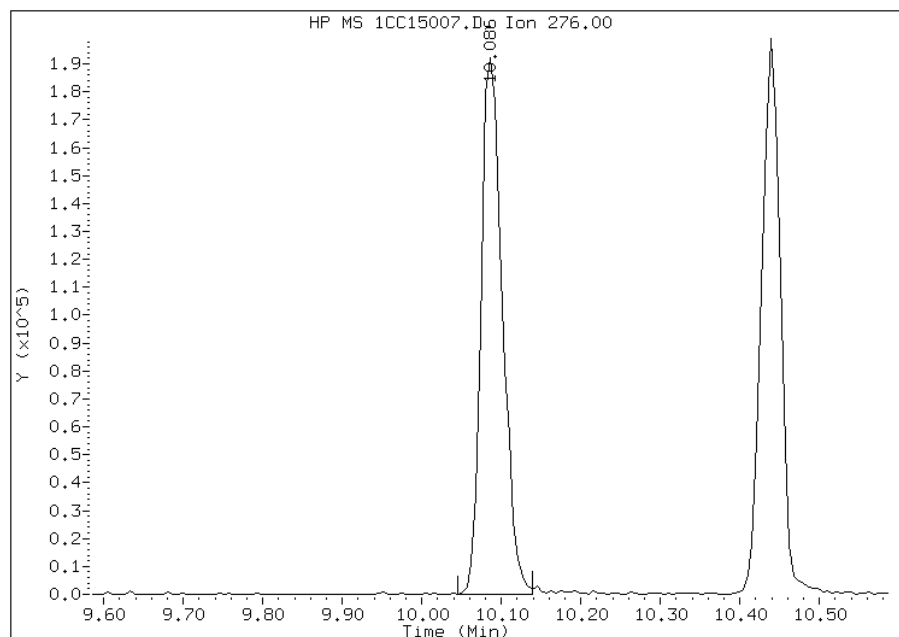


Manual Integration Report

Data File: 1CC15007.D
Inj. Date and Time: 15-MAR-2013 17:09
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

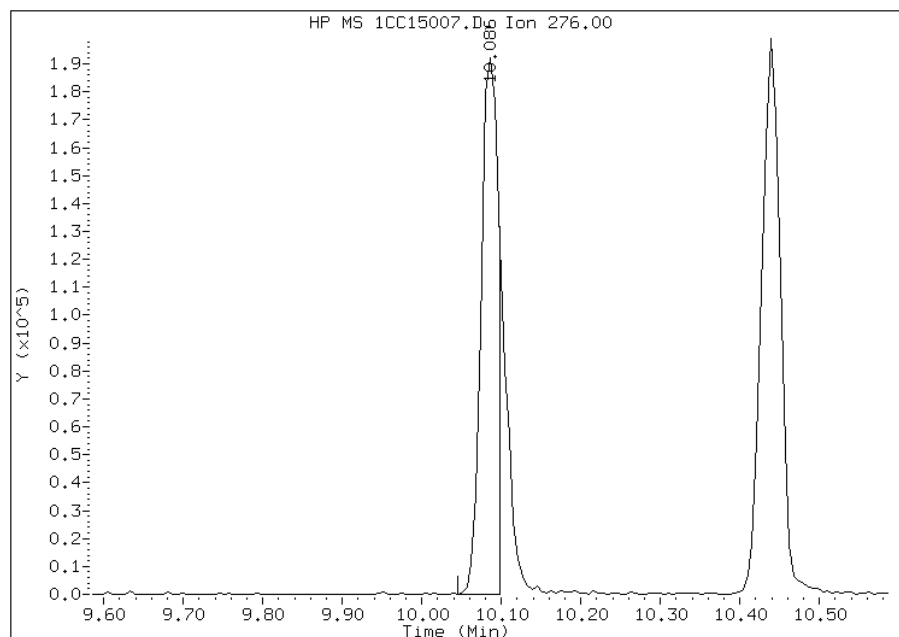
Processing Integration Results

RT: 10.09
Response: 355045
Amount: 8
Conc: 543



Manual Integration Results

RT: 10.09
Response: 288704
Amount: 7
Conc: 441



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: FM0116B-CS-SP MS Lab Sample ID: 680-88118-21 MS
 Matrix: Solid Lab File ID: 1CC15009.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:47
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.01(g) Date Analyzed: 03/15/2013 17:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	793		610	120
208-96-8	Acenaphthylene	831		240	30
120-12-7	Anthracene	919		51	26
56-55-3	Benzo[a]anthracene	1330		49	24
50-32-8	Benzo[a]pyrene	1220		63	32
205-99-2	Benzo[b]fluoranthene	1440		74	37
191-24-2	Benzo[g,h,i]perylene	983		120	27
207-08-9	Benzo[k]fluoranthene	1210		49	22
218-01-9	Chrysene	1270		55	27
53-70-3	Dibenz(a,h)anthracene	867		120	25
206-44-0	Fluoranthene	1730		120	24
86-73-7	Fluorene	795		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	995		120	43
90-12-0	1-Methylnaphthalene	924		240	27
91-57-6	2-Methylnaphthalene	986		240	43
91-20-3	Naphthalene	935		240	27
85-01-8	Phenanthrene	1380		49	24
129-00-0	Pyrene	1630		120	22

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\1C031513.b\1CC15009.D
 Lab Smp Id: 680-88118-a-21-b ms
 Inj Date : 15-MAR-2013 17:46
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-21-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	15.010	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		3.751	3.751	(1.000)	1152686	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	909744	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1600846	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	44187	1.82817	487.1877
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1806634	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1757770	40.0000	
2 Naphthalene	128		3.763	3.763	(1.003)	69268	2.30826	615.1254
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	48735	2.43466	648.8101
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	41572	2.28031	607.6777
5 Acenaphthylene	152		4.745	4.751	(0.982)	75253	2.05172	546.7606
7 Acenaphthene	154		4.851	4.857	(1.004)	44621	1.95728	521.5938(M)
9 Fluorene	166		5.174	5.174	(1.071)	56618	1.96375	523.3188
11 Phenanthrene	178		5.798	5.804	(1.002)	157620	3.40510	907.4216(R)
12 Anthracene	178		5.833	5.839	(1.008)	102715	2.26890	604.6382

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.945 (1.026)		87385	2.17146	578.6699
15 Fluoranthene	202	6.633	6.639 (1.146)		216346	4.26781	1137.3251(R)
16 Pyrene	202	6.804	6.810 (0.880)		195808	4.03306	1074.7669(R)
17 Benzo(a)anthracene	228	7.715	7.727 (0.998)		171484	3.28873	876.4099(R)
19 Chrysene	228	7.745	7.751 (1.002)		163733	3.13772	836.1685
20 Benzo(b)fluoranthene	252	8.562	8.580 (0.960)		163288	3.55460	947.2624(R)
21 Benzo(k)fluoranthene	252	8.586	8.604 (0.963)		141092	2.99404	797.8785
22 Benzo(a)pyrene	252	8.857	8.874 (0.993)		134750	3.01995	804.7835
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109 (1.131)		103174	2.45800	655.0307(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.127 (1.133)		87874	2.14028	570.3619
26 Benzo(g,h,i)perylene	276	10.439	10.462 (1.171)		106594	2.42761	646.9304

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC15009.D

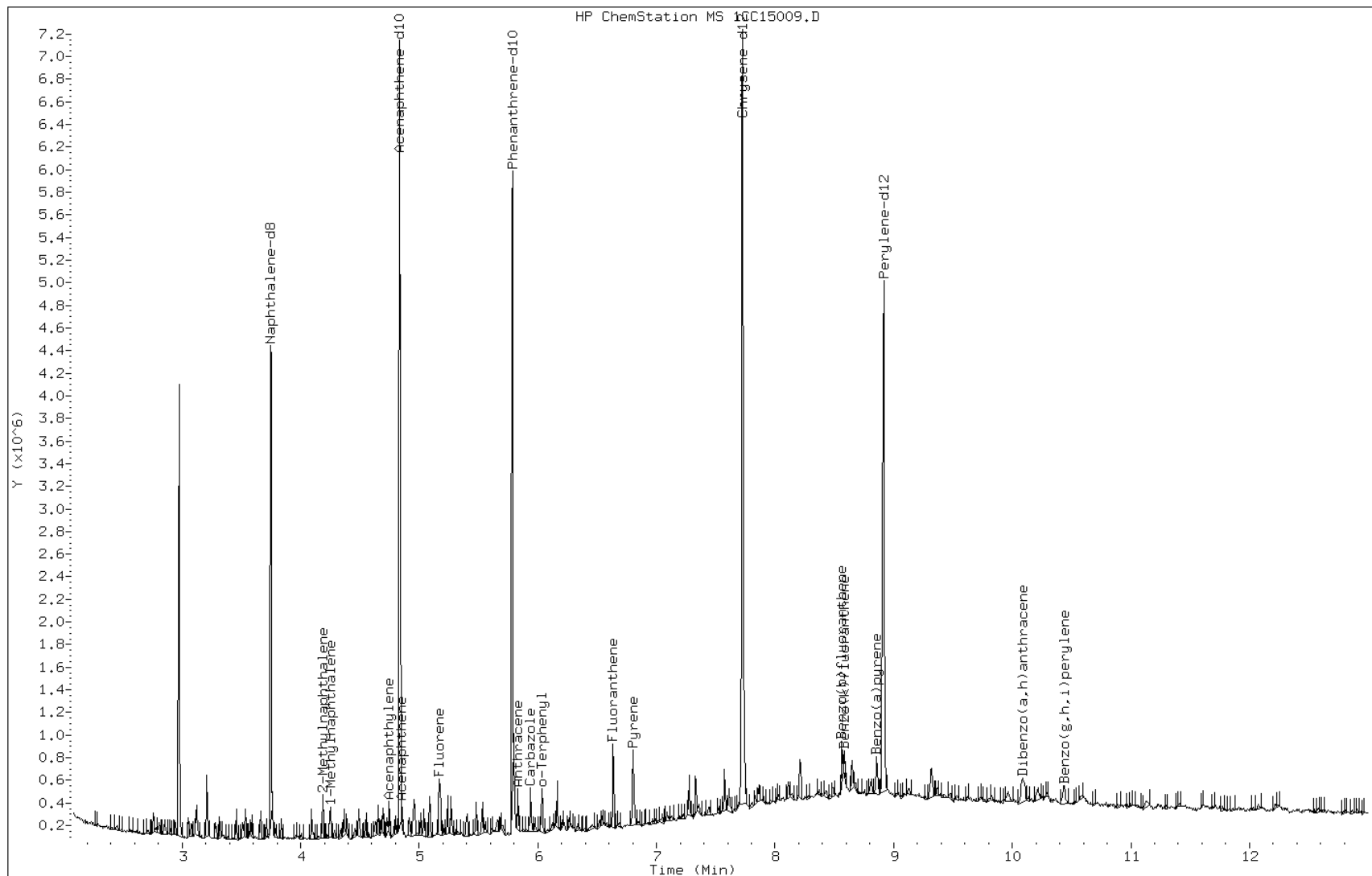
Date: 15-MAR-2013 17:46

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-b ms

Operator: SCC

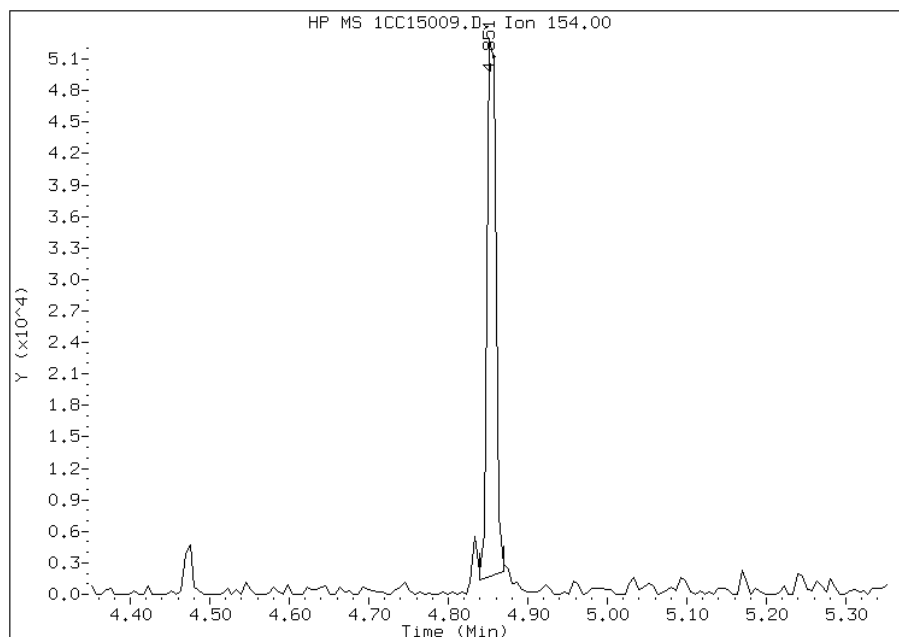


Manual Integration Report

Data File: 1CC15009.D
Inj. Date and Time: 15-MAR-2013 17:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 03/20/2013

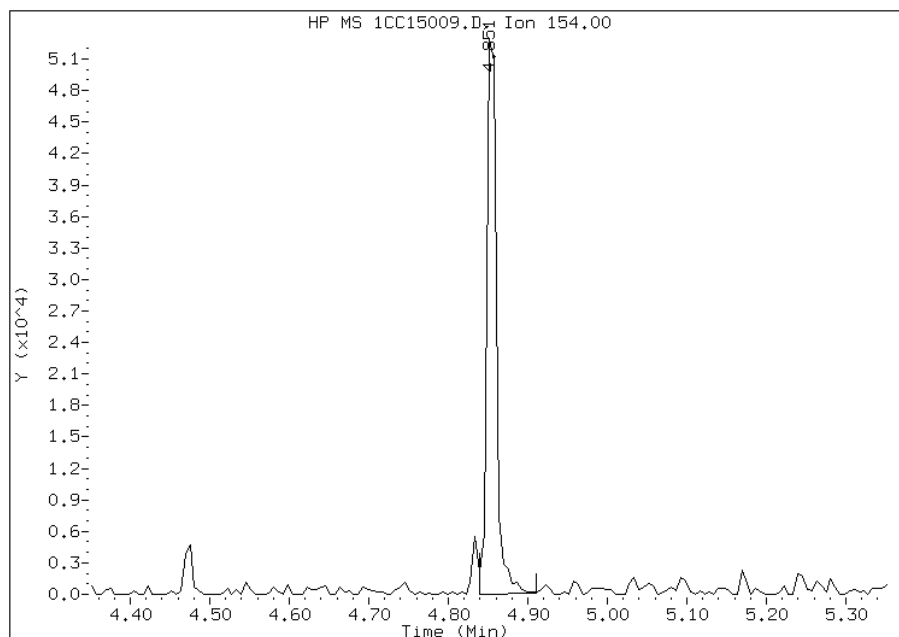
Processing Integration Results

RT: 4.85
Response: 39197
Amount: 2
Conc: 458



Manual Integration Results

RT: 4.85
Response: 44621
Amount: 2
Conc: 522



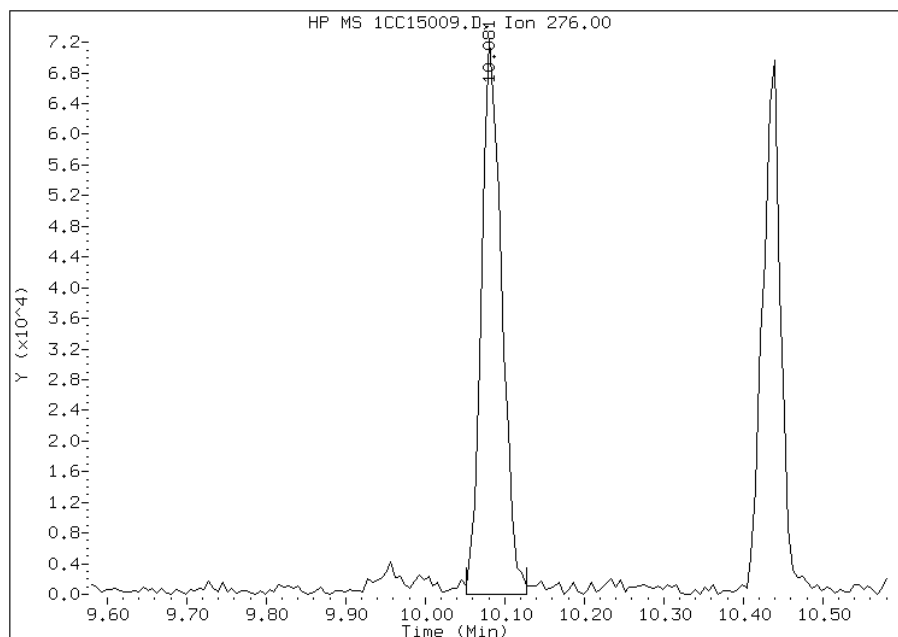
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15009.D
Inj. Date and Time: 15-MAR-2013 17:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

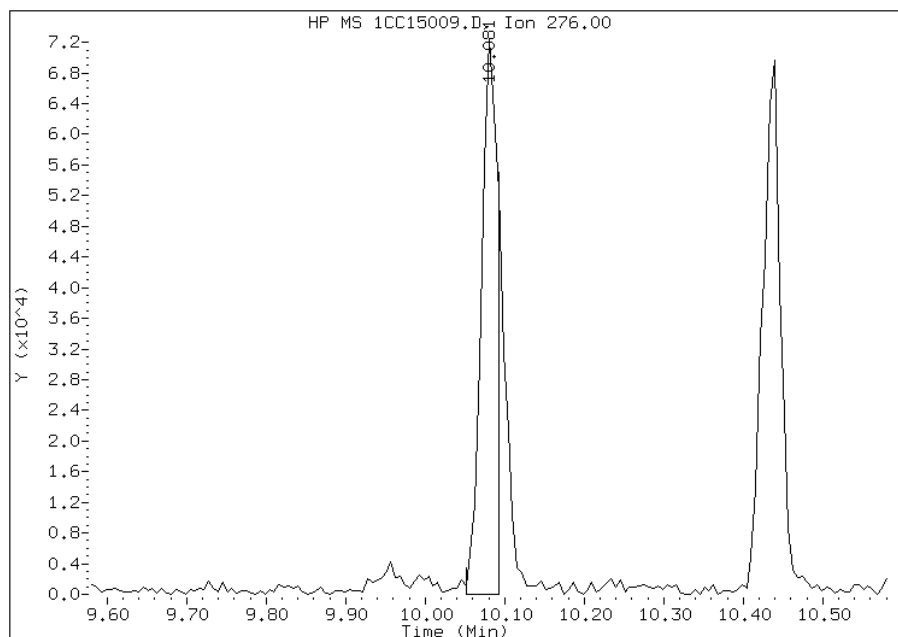
Processing Integration Results

RT: 10.08
Response: 128146
Amount: 3
Conc: 814



Manual Integration Results

RT: 10.08
Response: 103174
Amount: 2
Conc: 655



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2
 SDG No.: 68088118-2
 Client Sample ID: FM0116B-CS-SP MSD Lab Sample ID: 680-88118-21 MSD
 Matrix: Solid Lab File ID: 1CC15010.D
 Analysis Method: 8270C LL Date Collected: 03/06/2013 10:47
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.01(g) Date Analyzed: 03/15/2013 18:04
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	757		610	120
208-96-8	Acenaphthylene	875		240	30
120-12-7	Anthracene	848		51	26
56-55-3	Benzo[a]anthracene	1330		49	24
50-32-8	Benzo[a]pyrene	1090		63	32
205-99-2	Benzo[b]fluoranthene	1480		74	37
191-24-2	Benzo[g,h,i]perylene	996		120	27
207-08-9	Benzo[k]fluoranthene	1230		49	22
218-01-9	Chrysene	1290		55	27
53-70-3	Dibenz(a,h)anthracene	824		120	25
206-44-0	Fluoranthene	1680		120	24
86-73-7	Fluorene	731		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1040		120	43
90-12-0	1-Methylnaphthalene	887		240	27
91-57-6	2-Methylnaphthalene	916		240	43
91-20-3	Naphthalene	853		240	27
85-01-8	Phenanthrene	1320		49	24
129-00-0	Pyrene	1630		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15010.D
 Lab Smp Id: 680-88118-a-21-c ms
 Inj Date : 15-MAR-2013 18:04
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88118-a-21-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	15.010	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		3.751	3.751	(1.000)	1171459	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	888797	40.0000		
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1611446	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	43998	1.80838	481.9128	
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1720102	40.0000		
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1710534	40.0000		
2 Naphthalene	128		3.763	3.763	(1.003)	64269	2.10735	561.5863	
3 2-Methylnaphthalene	142		4.186	4.186	(1.116)	46027	2.26253	602.9388	
4 1-Methylnaphthalene	142		4.251	4.251	(1.133)	40599	2.19125	583.9445	
5 Acenaphthylene	152		4.751	4.751	(0.983)	77459	2.16164	576.0523	
7 Acenaphthene	154		4.857	4.857	(1.005)	41645	1.86979	498.2790	
9 Fluorene	166		5.174	5.174	(1.071)	50868	1.80590	481.2526	
11 Phenanthrene	178		5.798	5.804	(1.002)	151427	3.24979	866.0339	
12 Anthracene	178		5.833	5.839	(1.008)	95398	2.09342	557.8722	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.939	5.945	(1.026)	89673	2.21366	589.9151
15 Fluoranthene	202	6.633	6.639	(1.146)	211176	4.13842	1102.8440(R)
16 Pyrene	202	6.804	6.810	(0.880)	186526	4.03515	1075.3237(R)
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	163201	3.28733	876.0370(R)
19 Chrysene	228	7.745	7.751	(1.002)	158129	3.18277	848.1743
20 Benzo(b)fluoranthene	252	8.562	8.580	(0.960)	162865	3.64330	970.8992(R)
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	139378	3.03934	809.9514
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	116932	2.69299	717.6522
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.109	(1.131)	104546	2.55947	682.0703(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	81248	2.03355	541.9174
26 Benzo(g,h,i)perylene	276	10.433	10.462	(1.170)	105110	2.45991	655.5400

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CC15010.D

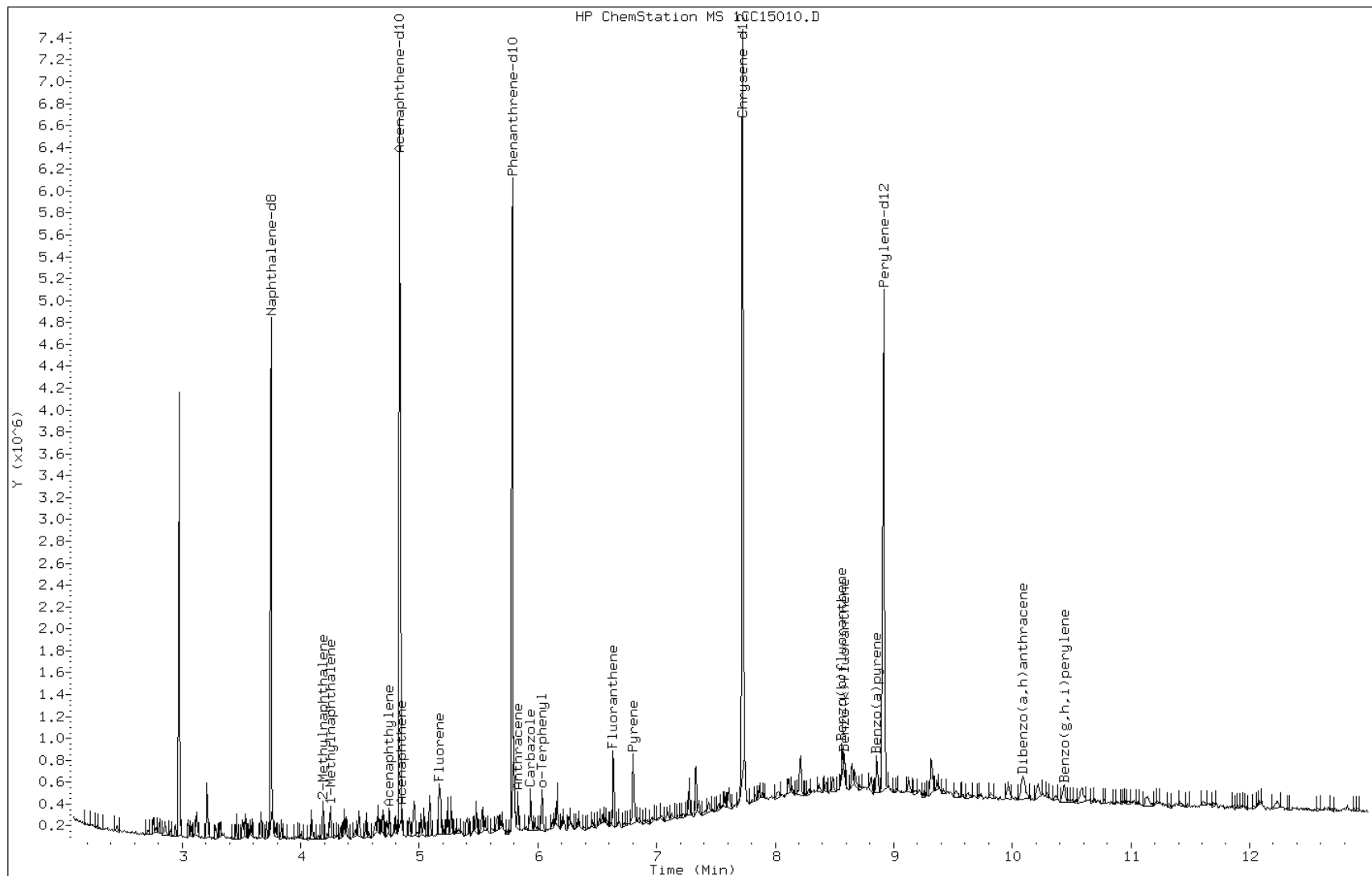
Date: 15-MAR-2013 18:04

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88118-a-21-c msd

Operator: SCC

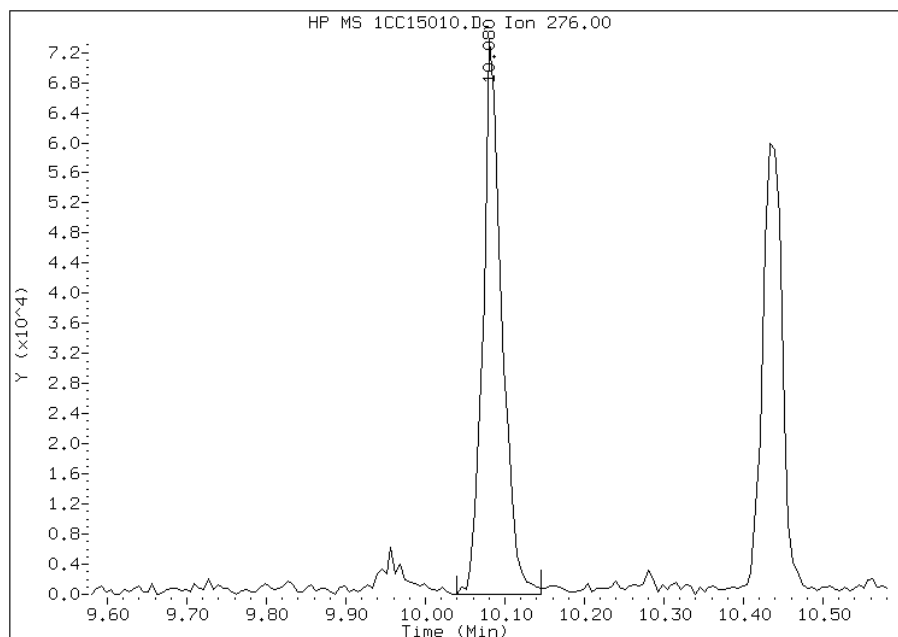


Manual Integration Report

Data File: 1CC15010.D
Inj. Date and Time: 15-MAR-2013 18:04
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

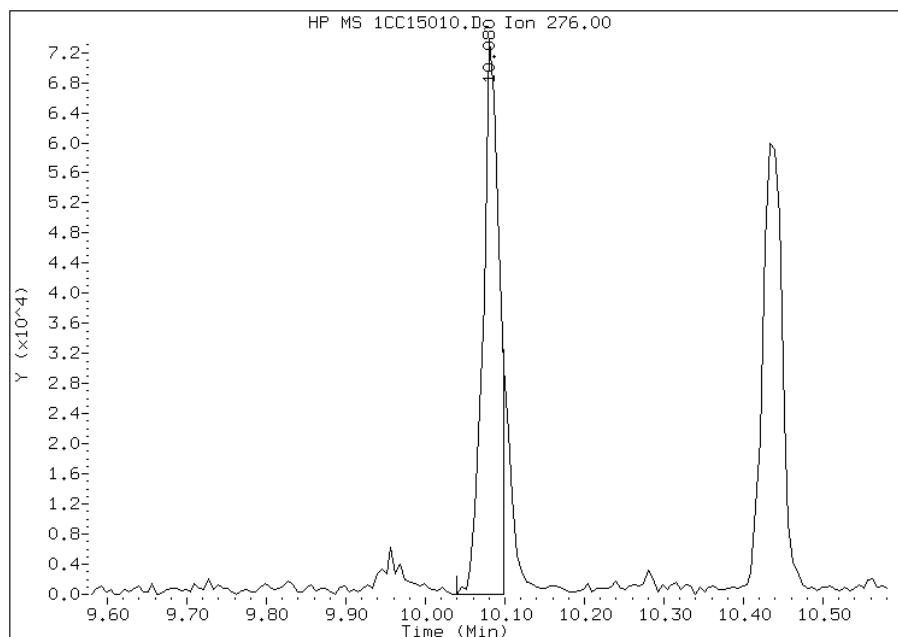
Processing Integration Results

RT: 10.08
Response: 121353
Amount: 3
Conc: 792



Manual Integration Results

RT: 10.08
Response: 104546
Amount: 3
Conc: 682



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:11
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
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.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973Start Date: 03/15/2013 13:37Analysis Batch Number: 135469End Date: 03/15/2013 23:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/15/2013 13:37	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 13:55	1		DB-5MS 250 (um)
DFTPP 660-135469/2		03/15/2013 14:13	1	1CC15002.D	DB-5MS 250 (um)
CCVIS 660-135469/3		03/15/2013 14:42	1	1CC15003.D	DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:10	1		DB-5MS 250 (um)
ZZZZZ		03/15/2013 15:36	10		DB-5MS 250 (um)
MB 660-135392/1-A		03/15/2013 16:51	1	1CC15006.D	DB-5MS 250 (um)
LCS 660-135392/2-A		03/15/2013 17:09	1	1CC15007.D	DB-5MS 250 (um)
680-88118-21	FM0116B-CS-SP	03/15/2013 17:27	4	1CC15008.D	DB-5MS 250 (um)
680-88118-21 MS	FM0116B-CS-SP MS	03/15/2013 17:46	4	1CC15009.D	DB-5MS 250 (um)
680-88118-21 MSD	FM0116B-CS-SP MSD	03/15/2013 18:04	4	1CC15010.D	DB-5MS 250 (um)
680-88118-22	HP0113A-CS	03/15/2013 18:22	4	1CC15011.D	DB-5MS 250 (um)
680-88118-23	HP0113A-CSD	03/15/2013 18:40	4	1CC15012.D	DB-5MS 250 (um)
680-88118-24	CV0166A-CS	03/15/2013 18:59	1	1CC15013.D	DB-5MS 250 (um)
680-88118-25	CV0166B-CS	03/15/2013 19:17	4	1CC15014.D	DB-5MS 250 (um)
680-88118-26	CV0350A-CS	03/15/2013 19:36	1	1CC15015.D	DB-5MS 250 (um)
680-88118-27	CV0350B-CS	03/15/2013 19:54	4	1CC15016.D	DB-5MS 250 (um)
680-88118-28	CV0350C-GS	03/15/2013 20:12	4	1CC15017.D	DB-5MS 250 (um)
680-88118-29	CV0518A-CS	03/15/2013 20:31	4	1CC15018.D	DB-5MS 250 (um)
680-88118-30	CV0518B-CS	03/15/2013 20:49	4	1CC15019.D	DB-5MS 250 (um)
680-88118-31	CV0822A-CS	03/15/2013 21:07	4	1CC15020.D	DB-5MS 250 (um)
680-88118-32	CV0822B-CS	03/15/2013 21:26	4	1CC15021.D	DB-5MS 250 (um)
680-88118-33	CV0822C-CS	03/15/2013 21:44	4	1CC15022.D	DB-5MS 250 (um)
680-88118-34	CV0822D-CS	03/15/2013 22:02	1	1CC15023.D	DB-5MS 250 (um)
680-88118-35	CV0822E-CS	03/15/2013 22:21	4	1CC15024.D	DB-5MS 250 (um)
680-88118-36	CV0822F-CS	03/15/2013 22:39	4	1CC15025.D	DB-5MS 250 (um)
680-88118-37	CV0822F-CSD	03/15/2013 22:57	4	1CC15026.D	DB-5MS 250 (um)
680-88118-38	CV0911A-CS	03/15/2013 23:16	1	1CC15027.D	DB-5MS 250 (um)
680-88118-39	CV0911B-CS	03/15/2013 23:34	1	1CC15028.D	DB-5MS 250 (um)
ZZZZZ		03/15/2013 23:52	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Instrument ID: BSMC5973 Start Date: 03/19/2013 10:20Analysis Batch Number: 135536 End Date: 03/19/2013 14:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/19/2013 10:20	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 10:38	1		DB-5MS 250 (um)
DFTPP 660-135536/2		03/19/2013 10:57	1	1CC19002.D	DB-5MS 250 (um)
CCVIS 660-135536/3		03/19/2013 11:18	1	1CC19003.D	DB-5MS 250 (um)
ZZZZZ		03/19/2013 11:45	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 12:11	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 12:30	4		DB-5MS 250 (um)
ZZZZZ		03/19/2013 12:48	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 13:07	1		DB-5MS 250 (um)
ZZZZZ		03/19/2013 13:25	1		DB-5MS 250 (um)
680-88118-23 DL	HP0113A-CSD DL	03/19/2013 14:47	20	1CC19010.D	DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2SDG No.: 68088118-2Batch Number: 135392 Batch Start Date: 03/14/13 10:53 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/14/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135392/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-135392/2		3546, 8270C LL		15.17 g	1 mL	1 mL	1 mL		
680-88118-A-21	FM0116B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88118-A-21 MS	FM0116B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL		
680-88118-A-21 MSD	FM0116B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL	1 mL	1 mL		
680-88118-A-22	HP0113A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88118-A-23	HP0113A-CSD	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-88118-A-24	CV0166A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-88118-A-25	CV0166B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-88118-A-26	CV0350A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88118-A-27	CV0350B-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88118-A-28	CV0350C-GS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-88118-A-29	CV0518A-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88118-A-30	CV0518B-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88118-A-31	CV0822A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88118-A-32	CV0822B-CS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88118-A-33	CV0822C-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-88118-A-34	CV0822D-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88118-A-35	CV0822E-CS	3546, 8270C LL	T	15.36 g	1 mL		1 mL		
680-88118-A-36	CV0822F-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88118-A-37	CV0822F-CSD	3546, 8270C LL	T	15.06 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2

SDG No.: 68088118-2

Batch Number: 135392 Batch Start Date: 03/14/13 10:53 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 03/14/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
680-88118-A-38	CV0911A-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-88118-A-39	CV0911B-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 42/43
Microwave Start Time	12:30 3/14/13
Microwave Stop Time	13:05 3/14/13
Na2SO4 Lot Number	EX-NA2S04A_63
Ottawa Sand Lot #	EX-OTTOWA SAND 12
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88118-2

SDG No.: 68088118-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0116B-CS-SP	680-88118-21
HP0113A-CS	680-88118-22
HP0113A-CSD	680-88118-23
CV0166A-CS	680-88118-24
CV0166B-CS	680-88118-25
CV0350A-CS	680-88118-26
CV0350B-CS	680-88118-27
CV0350C-GS	680-88118-28
CV0518A-CS	680-88118-29
CV0518B-CS	680-88118-30
CV0822A-CS	680-88118-31
CV0822B-CS	680-88118-32
CV0822C-CS	680-88118-33
CV0822D-CS	680-88118-34
CV0822E-CS	680-88118-35
CV0822F-CS	680-88118-36
CV0822F-CSD	680-88118-37
CV0911A-CS	680-88118-38
CV0911B-CS	680-88118-39

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88118-2
SDG Number: 68088118-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88118-2
SDG Number: 68088118-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2

SDG No.: 68088118-2

Batch Number: 135258 Batch Start Date: 03/11/13 12:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135258/1		Moisture		mb	0 g	9.21 g	9.19 g		
680-88118-A-31	CV0822A-CS	Moisture	T	4	0 g	4.46 g	3.55 g		
680-88118-A-22	HP0113A-CS	Moisture	T	5	0 g	4.79 g	3.88 g		
680-88118-A-25	CV0166B-CS	Moisture	T	6	0 g	4.41 g	3.29 g		
680-88118-A-26	CV0350A-CS	Moisture	T	7	0 g	5.23 g	4.02 g		
680-88118-A-34	CV0822D-CS	Moisture	T	8	0 g	4.82 g	3.42 g		
680-88118-A-35	CV0822E-CS	Moisture	T	12	0 g	5.49 g	4.37 g		
680-88118-A-24	CV0166A-CS	Moisture	T	14	0 g	4.12 g	3.42 g		
680-88118-A-33	CV0822C-CS	Moisture	T	15	0 g	4.31 g	3.19 g		
680-88118-A-29	CV0518A-CS	Moisture	T	17	0 g	4.64 g	3.56 g		
680-88118-A-28	CV0350C-GS	Moisture	T	18	0 g	4.47 g	3.99 g		
680-88118-A-30	CV0518B-CS	Moisture	T	22	0 g	4.42 g	3.55 g		
680-88118-A-39	CV0911B-CS	Moisture	T	23	0 g	4.30 g	3.12 g		
680-88118-A-32	CV0822B-CS	Moisture	T	24	0 g	5.21 g	4.14 g		
680-88118-A-21	FM0116B-CS-SP	Moisture	T	28	0 g	4.62 g	3.04 g		
680-88118-A-21 MS	FM0116B-CS-SP	Moisture	T	28	0 g	4.62 g	3.04 g		
680-88118-A-21 MSD	FM0116B-CS-SP	Moisture	T	28	0 g	4.62 g	3.04 g		
680-88118-A-37	CV0822F-CSD	Moisture	T	29	0 g	4.47 g	3.67 g		
680-88118-A-23	HP0113A-CSD	Moisture	T	30	0 g	4.72 g	3.90 g		
680-88118-A-27	CV0350B-CS	Moisture	T	34	0 g	4.58 g	3.48 g		
680-88118-A-11 MS		Moisture	T	35	0 g	6.73 g	5.36 g		
680-88118-A-11 MSD		Moisture	T	35	0 g	6.73 g	5.36 g		
680-88118-A-36	CV0822F-CS	Moisture	T	37	0 g	4.92 g	3.98 g		
680-88118-A-38	CV0911A-CS	Moisture	T	39	0 g	4.49 g	3.09 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.11.13

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88118-2

SDG No.: 68088118-2

Batch Number: 135258 Batch Start Date: 03/11/13 12:26 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS						PAGE 2	OF 4	
TAL (LAB) PROJECT MANAGER Lisa Horvath	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	ACRA 8	PRESERVATIVE	STANDARD REPORT DELIVERY	<input type="checkbox"/>
CLIENT NAME	CLIENT EMAIL	CLIENT FAX									DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE)
											NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED						REMARKS
DATE	TIME													
3/6/13	0857	CV0713A-CS-SP	C	✓			X							
	0911	CV0713B-CS-SP	C	✓			X							
	0930	CV0844A-CS	C	✓			X							
	0940	CV0844B-CS	C	✓			X							
	0905	CV0846A-CS	C	✓			X							
	10:45	CV0945A-CS	C	✓			X							
	10:15	CV0960A-CS	C	✓			X							
	1037	PM0116A-CS-SP	C	✓			X							
	10:47	PM0116B-CS-SP	C	✓			X							
	08:35	NP0113A-CS	C	✓			X							
	08:35	NP0113A-CSO	C	✓			X							
	15:40	CV0116A-CS	C	✓			X							

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/7/13	TIME 18:00	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/06/13	TIME 0921	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88118	LABORATORY REMARKS 2-80		

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 Avenue Removal</i>	PROJECT NO. <i>3</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER <i>200548-1356</i>	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) <i>LUCAH</i> <i>RCRA 8</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 ADDRESS <i>(b) (6)</i>	CLIENT FAX	CONTRACT NO.			

(b) (6)
(b) (6)
COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
<i>3/11/13</i>	<i>15:50</i>	<i>CVX1166B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>13:50</i>	<i>CVX350A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>14:00</i>	<i>CVX350B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>										
	<i>14:10</i>	<i>CVX350C-GS</i>	<i>G</i>	<i>✓</i>			<i>X</i>											
	<i>14:50</i>	<i>CVX518A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>15:00</i>	<i>CVX518B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>12:20</i>	<i>CVX822A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>										
	<i>12:30</i>	<i>CVX822B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>12:40</i>	<i>CVX822C-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>12:50</i>	<i>CVX822D-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>13:00</i>	<i>CVX822E-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											
	<i>13:10</i>	<i>CVX822F-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/7/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/08/13</i>	TIME <i>0921</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>08118</i>	LABORATORY REMARKS <i>2-B</i>		

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO.	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>4</i>	OF <i>4</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER <i>200548-1356</i>	CONTRACT NO.	CLIENT FAX		STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
					EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____

(b) (6)
(b) (6)
(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE										REMARKS	
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED											
<i>3/6/13</i>	<i>13:10</i>	<i>CV0822A-CS0</i>	<i>C</i>	<i>✓</i>				<i>X</i>											
	<i>15:10</i>	<i>CV0911A-CS</i>	<i>C</i>	<i>✓</i>				<i>X</i>	<i>X</i>										
	<i>15:20</i>	<i>CV0911B-CS</i>	<i>C</i>	<i>✓</i>				<i>X</i>											
	<i>14:00</i>	<i>CV0850B-CS (sieve)</i>	<i>C</i>	<i>✓</i>				<i>X</i>	<i>X</i>										
	<i>15:10</i>	<i>CV0911A CS (sieve)</i>	<i>C</i>	<i>✓</i>					<i>X</i>										
	<i>050</i>	<i>CV0684B-CS-SP (sieve)</i>	<i>C</i>	<i>✓</i>				<i>X</i>	<i>X</i>										
	<i>12:20</i>	<i>CV0822A (sieve)</i>	<i>C</i>	<i>✓</i>					<i>X</i>										

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/7/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY								
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/08/13</i>	TIME <i>0921</i>	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88118</i>	LABORATORY REMARKS <i>2-8°C</i>		

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 03/09/13 12:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118
List Number: 2
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/12/13 08:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88118-2

TestAmerica Sample Delivery Group: 68088118-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

3/20/2013 1:30:02 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

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.



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1

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Case Narrative

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Job ID: 680-88118-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88118-2

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

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

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

RECEIPT

The samples were received on 03/08/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0116B-CS-SP (680-88118-21), HP0113A-CS (680-88118-22), HP0113A-CSD (680-88118-23), CV0166A-CS (680-88118-24), CV0166B-CS (680-88118-25), CV0350A-CS (680-88118-26), CV0350B-CS (680-88118-27), CV0350C-GS (680-88118-28), CV0518A-CS (680-88118-29), CV0518B-CS (680-88118-30), CV0822A-CS (680-88118-31), CV0822B-CS (680-88118-32), CV0822C-CS (680-88118-33), CV0822D-CS (680-88118-34), CV0822E-CS (680-88118-35), CV0822F-CS (680-88118-36), CV0822F-CSD (680-88118-37), CV0911A-CS (680-88118-38) and CV0911B-CS (680-88118-39) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/14/2013 and analyzed on 03/15/2013 and 03/19/2013.

Samples FM0116B-CS-SP (680-88118-21)[4X], HP0113A-CS (680-88118-22)[4X], HP0113A-CSD (680-88118-23)[20X], HP0113A-CSD (680-88118-23)[4X], CV0166B-CS (680-88118-25)[4X], CV0350B-CS (680-88118-27)[4X], CV0350C-GS (680-88118-28)[4X], CV0518A-CS (680-88118-29)[4X], CV0518B-CS (680-88118-30)[4X], CV0822A-CS (680-88118-31)[4X], CV0822B-CS (680-88118-32)[4X], CV0822C-CS (680-88118-33)[4X], CV0822E-CS (680-88118-35)[4X], CV0822F-CS (680-88118-36)[4X] and CV0822F-CSD (680-88118-37)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analyses.

All quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88118-21	FM0116B-CS-SP	Solid	03/06/13 10:47	03/08/13 09:21
680-88118-22	HP0113A-CS	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-23	HP0113A-CSD	Solid	03/06/13 08:35	03/08/13 09:21
680-88118-24	CV0166A-CS	Solid	03/06/13 15:40	03/08/13 09:21
680-88118-25	CV0166B-CS	Solid	03/06/13 15:50	03/08/13 09:21
680-88118-26	CV0350A-CS	Solid	03/06/13 13:50	03/08/13 09:21
680-88118-27	CV0350B-CS	Solid	03/06/13 14:00	03/08/13 09:21
680-88118-28	CV0350C-GS	Solid	03/06/13 14:10	03/08/13 09:21
680-88118-29	CV0518A-CS	Solid	03/06/13 14:50	03/08/13 09:21
680-88118-30	CV0518B-CS	Solid	03/06/13 15:00	03/08/13 09:21
680-88118-31	CV0822A-CS	Solid	03/06/13 12:20	03/08/13 09:21
680-88118-32	CV0822B-CS	Solid	03/06/13 12:30	03/08/13 09:21
680-88118-33	CV0822C-CS	Solid	03/06/13 12:40	03/08/13 09:21
680-88118-34	CV0822D-CS	Solid	03/06/13 12:50	03/08/13 09:21
680-88118-35	CV0822E-CS	Solid	03/06/13 13:00	03/08/13 09:21
680-88118-36	CV0822F-CS	Solid	03/06/13 13:10	03/08/13 09:21
680-88118-37	CV0822F-CSD	Solid	03/06/13 13:10	03/08/13 09:21
680-88118-38	CV0911A-CS	Solid	03/06/13 15:10	03/08/13 09:21
680-88118-39	CV0911B-CS	Solid	03/06/13 15:20	03/08/13 09:21

Method Summary

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Definitions/Glossary

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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: 680-88118-2
 SDG: 68088118-2

Client Sample ID: FM0116B-CS-SP

Lab Sample ID: 680-88118-21

Date Collected: 03/06/13 10:47

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 65.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	610	U	610	120	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Anthracene	120		51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[a]anthracene	520		49	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[a]pyrene	440		63	32	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[b]fluoranthene	770		74	37	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[g,h,i]perylene	330		120	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Benzo[k]fluoranthene	280		49	22	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Chrysene	630		55	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Dibenz(a,h)anthracene	110	J	120	25	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Fluoranthene	1000		120	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Fluorene	57	J	120	25	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Indeno[1,2,3-cd]pyrene	290		120	43	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
1-Methylnaphthalene	98	J	240	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
2-Methylnaphthalene	210	J	240	43	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Naphthalene	190	J	240	27	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Phenanthrene	620		49	24	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4
Pyrene	880		120	22	ug/Kg	☼	03/14/13 10:53	03/15/13 17:27	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130	03/14/13 10:53	03/15/13 17:27	4

Client Sample ID: HP0113A-CS

Lab Sample ID: 680-88118-22

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	820		490	99	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Acenaphthylene	53	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Anthracene	1300		41	21	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[a]anthracene	4800		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[a]pyrene	4000		51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[b]fluoranthene	6100		60	30	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[g,h,i]perylene	2600		99	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Benzo[k]fluoranthene	2800		39	18	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Chrysene	4100		44	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Dibenz(a,h)anthracene	760		99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Fluoranthene	9600		99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Fluorene	600		99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Indeno[1,2,3-cd]pyrene	2200		99	35	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
2-Methylnaphthalene	140	J	200	35	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Naphthalene	130	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Phenanthrene	5600		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4
Pyrene	7500		99	18	ug/Kg	☼	03/14/13 10:53	03/15/13 18:22	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130	03/14/13 10:53	03/15/13 18:22	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: HP0113A-CSD

Lab Sample ID: 680-88118-23

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9500		480	97	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Acenaphthylene	200		190	24	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Anthracene	15000		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Dibenz(a,h)anthracene	5700		97	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Fluorene	8300		97	20	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
1-Methylnaphthalene	1100		190	21	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
2-Methylnaphthalene	1700		190	34	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Naphthalene	3300		190	21	ug/Kg	☼	03/14/13 10:53	03/15/13 18:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		30 - 130				03/14/13 10:53	03/15/13 18:40	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	29000		190	94	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Benzo[a]pyrene	24000		250	130	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Benzo[b]fluoranthene	35000		290	150	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Benzo[g,h,i]perylene	15000		480	110	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Benzo[k]fluoranthene	16000		190	87	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Chrysene	26000		220	110	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Fluoranthene	66000		480	97	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Indeno[1,2,3-cd]pyrene	14000		480	170	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Phenanthrene	47000		190	94	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20
Pyrene	50000		480	89	ug/Kg	☼	03/14/13 10:53	03/19/13 14:47	20

Client Sample ID: CV0166A-CS

Lab Sample ID: 680-88118-24

Date Collected: 03/06/13 15:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 83.0

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	24	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Acenaphthylene	9.5	J	48	6.0	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Anthracene	25		10	5.0	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Benzo[a]anthracene	110		9.6	4.7	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Benzo[a]pyrene	110		12	6.2	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Benzo[b]fluoranthene	170		15	7.3	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Benzo[g,h,i]perylene	93		24	5.3	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Benzo[k]fluoranthene	63		9.6	4.3	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Chrysene	160		11	5.4	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Dibenz(a,h)anthracene	29		24	4.9	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Fluoranthene	200		24	4.8	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Fluorene	11	J	24	4.9	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Indeno[1,2,3-cd]pyrene	51		24	8.5	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
1-Methylnaphthalene	80		48	5.3	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
2-Methylnaphthalene	99		48	8.5	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Naphthalene	65		48	5.3	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Phenanthrene	150		9.6	4.7	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1
Pyrene	180		24	4.4	ug/Kg	☼	03/14/13 10:53	03/15/13 18:59	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0166A-CS

Lab Sample ID: 680-88118-24

Date Collected: 03/06/13 15:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 83.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		30 - 130	03/14/13 10:53	03/15/13 18:59	1

Client Sample ID: CV0166B-CS

Lab Sample ID: 680-88118-25

Date Collected: 03/06/13 15:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 74.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Acenaphthylene	35	J	210	27	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Anthracene	83		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Benzo[a]anthracene	330		43	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Benzo[a]pyrene	330		56	28	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Benzo[b]fluoranthene	520		66	33	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Benzo[g,h,i]perylene	240		110	24	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Benzo[k]fluoranthene	180		43	19	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Chrysene	500		48	24	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Dibenz(a,h)anthracene	71	J	110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Fluoranthene	600		110	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Fluorene	47	J	110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Indeno[1,2,3-cd]pyrene	230		110	38	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
1-Methylnaphthalene	430		210	24	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
2-Methylnaphthalene	470		210	38	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Naphthalene	280		210	24	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Phenanthrene	540		43	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Pyrene	530		110	20	ug/Kg	☼	03/14/13 10:53	03/15/13 19:17	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				03/14/13 10:53	03/15/13 19:17	4

Client Sample ID: CV0350A-CS

Lab Sample ID: 680-88118-26

Date Collected: 03/06/13 13:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	64	J	130	26	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Acenaphthylene	13	J	52	6.4	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Anthracene	98		11	5.4	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Benzo[a]anthracene	440		10	5.0	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Benzo[a]pyrene	370		13	6.7	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Benzo[b]fluoranthene	580		16	7.9	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Benzo[g,h,i]perylene	220		26	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Benzo[k]fluoranthene	250		10	4.6	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Chrysene	420		12	5.8	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Dibenz(a,h)anthracene	68		26	5.3	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Fluoranthene	750		26	5.2	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Fluorene	51		26	5.3	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Indeno[1,2,3-cd]pyrene	160		26	9.1	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
1-Methylnaphthalene	87		52	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
2-Methylnaphthalene	130		52	9.1	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0350A-CS

Lab Sample ID: 680-88118-26

Date Collected: 03/06/13 13:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	79		52	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Phenanthrene	540		10	5.0	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Pyrene	670		26	4.8	ug/Kg	☼	03/14/13 10:53	03/15/13 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	56		30 - 130				03/14/13 10:53	03/15/13 19:36	1

Client Sample ID: CV0350B-CS

Lab Sample ID: 680-88118-27

Date Collected: 03/06/13 14:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Acenaphthylene	32	J	210	26	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Anthracene	37	J	44	22	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Benzo[a]anthracene	340		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Benzo[a]pyrene	250		55	27	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Benzo[b]fluoranthene	380		64	32	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Benzo[g,h,i]perylene	190		110	23	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Benzo[k]fluoranthene	130		42	19	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Chrysene	350		47	24	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Dibenz(a,h)anthracene	62	J	110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Fluoranthene	400		110	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Fluorene	23	J	110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Indeno[1,2,3-cd]pyrene	150		110	37	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
1-Methylnaphthalene	200	J	210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
2-Methylnaphthalene	280		210	37	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Naphthalene	160	J	210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Phenanthrene	360		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Pyrene	400		110	19	ug/Kg	☼	03/14/13 10:53	03/15/13 19:54	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130				03/14/13 10:53	03/15/13 19:54	4

Client Sample ID: CV0350C-GS

Lab Sample ID: 680-88118-28

Date Collected: 03/06/13 14:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 89.3

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	☼	03/14/13 10:53	03/15/13 20:12	4
Acenaphthylene	170	U	170	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Anthracene	31	J	37	18	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Benzo[a]anthracene	120		35	17	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Benzo[a]pyrene	120		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Benzo[b]fluoranthene	170		53	27	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Benzo[g,h,i]perylene	90		87	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Benzo[k]fluoranthene	64		35	16	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Chrysene	130		39	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0350C-GS

Lab Sample ID: 680-88118-28

Date Collected: 03/06/13 14:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 89.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	18	J	87	18	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Fluoranthene	140		87	17	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Fluorene	87	U	87	18	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Indeno[1,2,3-cd]pyrene	52	J	87	31	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
1-Methylnaphthalene	58	J	170	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
2-Methylnaphthalene	46	J	170	31	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Naphthalene	35	J	170	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Phenanthrene	140		35	17	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Pyrene	150		87	16	ug/Kg	☼	03/14/13 10:53	03/15/13 20:12	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/14/13 10:53	03/15/13 20:12	4

Client Sample ID: CV0518A-CS

Lab Sample ID: 680-88118-29

Date Collected: 03/06/13 14:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.7

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	☼	03/14/13 10:53	03/15/13 20:31	4
Acenaphthylene	39	J	210	26	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Anthracene	53		43	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Benzo[a]anthracene	290		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Benzo[a]pyrene	220		54	27	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Benzo[b]fluoranthene	370		63	31	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Benzo[g,h,i]perylene	170		100	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Benzo[k]fluoranthene	120		41	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Chrysene	280		46	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Fluoranthene	360		100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Fluorene	24	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Indeno[1,2,3-cd]pyrene	140		100	37	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
1-Methylnaphthalene	250		210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
2-Methylnaphthalene	330		210	37	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Naphthalene	240		210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Phenanthrene	370		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Pyrene	370		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/14/13 10:53	03/15/13 20:31	4

Client Sample ID: CV0518B-CS

Lab Sample ID: 680-88118-30

Date Collected: 03/06/13 15:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Acenaphthylene	300		200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Anthracene	200		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0518B-CS

Lab Sample ID: 680-88118-30

Date Collected: 03/06/13 15:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1700		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[a]pyrene	1300		52	26	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[b]fluoranthene	2100		61	31	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[g,h,i]perylene	850		100	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Benzo[k]fluoranthene	870		40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Chrysene	1600		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Dibenz(a,h)anthracene	230		100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Fluoranthene	2900		100	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Fluorene	47	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Indeno[1,2,3-cd]pyrene	680		100	36	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
2-Methylnaphthalene	260		200	36	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Naphthalene	240		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Phenanthrene	640		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Pyrene	3000		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 20:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/14/13 10:53	03/15/13 20:49	4

Client Sample ID: CV0822A-CS

Lab Sample ID: 680-88118-31

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

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	510	U	510	100	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Acenaphthylene	45	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Anthracene	78		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[a]anthracene	240		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[a]pyrene	240		53	26	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[b]fluoranthene	310		62	31	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[g,h,i]perylene	350		100	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Benzo[k]fluoranthene	220		40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Chrysene	280		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Dibenz(a,h)anthracene	80	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Fluoranthene	370		100	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Fluorene	24	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Indeno[1,2,3-cd]pyrene	99	J	100	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
1-Methylnaphthalene	290		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
2-Methylnaphthalene	260		200	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Naphthalene	190	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Phenanthrene	380		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Pyrene	380		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 21:07	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/14/13 10:53	03/15/13 21:07	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822B-CS

Lab Sample ID: 680-88118-32

Date Collected: 03/06/13 12:30

Matrix: Solid

Date Received: 03/08/13 09:21

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	☼	03/14/13 10:53	03/15/13 21:26	4
Acenaphthylene	31	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Anthracene	53		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Benzo[a]anthracene	230		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Benzo[a]pyrene	170		53	26	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Benzo[b]fluoranthene	330		62	31	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Benzo[g,h,i]perylene	170		100	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Benzo[k]fluoranthene	130		40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Chrysene	220		45	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Dibenz(a,h)anthracene	31	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Fluoranthene	270		100	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Fluorene	100	U	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Indeno[1,2,3-cd]pyrene	110		100	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
1-Methylnaphthalene	110	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
2-Methylnaphthalene	94	J	200	36	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Naphthalene	74	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Phenanthrene	230		40	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Pyrene	280		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 21:26	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/14/13 10:53	03/15/13 21:26	4

Client Sample ID: CV0822C-CS

Lab Sample ID: 680-88118-33

Date Collected: 03/06/13 12:40

Matrix: Solid

Date Received: 03/08/13 09:21

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	530	U	530	110	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Acenaphthylene	73	J	210	27	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Anthracene	86		45	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Benzo[a]anthracene	500		43	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Benzo[a]pyrene	590		55	28	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Benzo[b]fluoranthene	1100		65	32	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Benzo[g,h,i]perylene	370		110	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Benzo[k]fluoranthene	440		43	19	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Chrysene	700		48	24	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Dibenz(a,h)anthracene	140		110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Fluoranthene	640		110	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Fluorene	59	J	110	22	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Indeno[1,2,3-cd]pyrene	330		110	38	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
1-Methylnaphthalene	250		210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
2-Methylnaphthalene	330		210	38	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Naphthalene	240		210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Phenanthrene	450		43	21	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Pyrene	700		110	20	ug/Kg	☼	03/14/13 10:53	03/15/13 21:44	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		30 - 130				03/14/13 10:53	03/15/13 21:44	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822D-CS

Lab Sample ID: 680-88118-34

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 71.0

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	28	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Acenaphthylene	7.8	J	56	7.0	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Anthracene	17		12	5.9	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Benzo[a]anthracene	62		11	5.5	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Benzo[a]pyrene	54		15	7.3	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Benzo[b]fluoranthene	94		17	8.6	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Benzo[g,h,i]perylene	49		28	6.2	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Benzo[k]fluoranthene	34		11	5.1	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Chrysene	86		13	6.3	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Dibenz(a,h)anthracene	11	J	28	5.8	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Fluoranthene	90		28	5.6	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Fluorene	6.9	J	28	5.8	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Indeno[1,2,3-cd]pyrene	38		28	10	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
1-Methylnaphthalene	50	J	56	6.2	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
2-Methylnaphthalene	54	J	56	10	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Naphthalene	45	J	56	6.2	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Phenanthrene	85		11	5.5	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Pyrene	81		28	5.2	ug/Kg	☼	03/14/13 10:53	03/15/13 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/14/13 10:53	03/15/13 22:02	1

Client Sample ID: CV0822E-CS

Lab Sample ID: 680-88118-35

Date Collected: 03/06/13 13:00

Matrix: Solid

Date Received: 03/08/13 09:21

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	☼	03/14/13 10:53	03/15/13 22:21	4
Acenaphthylene	180	J	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Anthracene	110		41	21	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Benzo[a]anthracene	650		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Benzo[a]pyrene	1100		51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Benzo[b]fluoranthene	2000		60	30	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Benzo[g,h,i]perylene	720		98	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Benzo[k]fluoranthene	720		39	18	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Chrysene	980		44	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Dibenz(a,h)anthracene	220		98	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Fluoranthene	680		98	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Fluorene	41	J	98	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Indeno[1,2,3-cd]pyrene	700		98	35	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
1-Methylnaphthalene	220		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
2-Methylnaphthalene	220		200	35	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Naphthalene	240		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Phenanthrene	380		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Pyrene	760		98	18	ug/Kg	☼	03/14/13 10:53	03/15/13 22:21	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	79		30 - 130				03/14/13 10:53	03/15/13 22:21	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822F-CS

Lab Sample ID: 680-88118-36

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	J	500	99	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Anthracene	180		42	21	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Benzo[a]anthracene	570		40	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Benzo[a]pyrene	600		51	26	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Benzo[b]fluoranthene	970		60	30	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Benzo[g,h,i]perylene	430		99	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Benzo[k]fluoranthene	340		40	18	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Chrysene	620		45	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Dibenz(a,h)anthracene	130		99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Fluoranthene	1200		99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Fluorene	95	J	99	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Indeno[1,2,3-cd]pyrene	360		99	35	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
1-Methylnaphthalene	120	J	200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
2-Methylnaphthalene	200		200	35	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Naphthalene	200		200	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Phenanthrene	860		40	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Pyrene	1100		99	18	ug/Kg	☼	03/14/13 10:53	03/15/13 22:39	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				03/14/13 10:53	03/15/13 22:39	4

Client Sample ID: CV0822F-CSD

Lab Sample ID: 680-88118-37

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.1

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	97	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Anthracene	66		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Benzo[a]anthracene	320		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Benzo[a]pyrene	310		50	25	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Benzo[b]fluoranthene	480		59	30	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Benzo[g,h,i]perylene	250		97	21	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Benzo[k]fluoranthene	170		39	17	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Chrysene	310		44	22	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Dibenz(a,h)anthracene	79	J	97	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Fluoranthene	500		97	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Fluorene	39	J	97	20	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Indeno[1,2,3-cd]pyrene	230		97	34	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
1-Methylnaphthalene	89	J	190	21	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Naphthalene	100	J	190	21	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Phenanthrene	410		39	19	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Pyrene	440		97	18	ug/Kg	☼	03/14/13 10:53	03/15/13 22:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/14/13 10:53	03/15/13 22:57	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0911A-CS

Lab Sample ID: 680-88118-38

Date Collected: 03/06/13 15:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 68.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Acenaphthylene	58	U	58	7.3	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Anthracene	14		12	6.1	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Benzo[a]anthracene	79		12	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Benzo[a]pyrene	64		15	7.6	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Benzo[b]fluoranthene	120		18	8.9	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Benzo[g,h,i]perylene	60		29	6.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Benzo[k]fluoranthene	40		12	5.2	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Chrysene	140		13	6.6	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Dibenz(a,h)anthracene	20	J	29	6.0	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Fluoranthene	110		29	5.8	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Fluorene	8.3	J	29	6.0	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Indeno[1,2,3-cd]pyrene	50		29	10	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
1-Methylnaphthalene	99		58	6.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
2-Methylnaphthalene	110		58	10	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Naphthalene	83		58	6.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Phenanthrene	140		12	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Pyrene	130		29	5.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/14/13 10:53	03/15/13 23:16	1

Client Sample ID: CV0911B-CS

Lab Sample ID: 680-88118-39

Date Collected: 03/06/13 15:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.6

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	☼	03/14/13 10:53	03/15/13 23:34	1
Acenaphthylene	7.7	J	55	6.9	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Anthracene	12		12	5.8	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Benzo[a]anthracene	50		11	5.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Benzo[a]pyrene	44		14	7.2	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Benzo[b]fluoranthene	70		17	8.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Benzo[g,h,i]perylene	44		28	6.1	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Benzo[k]fluoranthene	26		11	5.0	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Chrysene	89		12	6.2	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Dibenz(a,h)anthracene	13	J	28	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Fluoranthene	66		28	5.5	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Fluorene	7.7	J	28	5.7	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Indeno[1,2,3-cd]pyrene	27	J	28	9.8	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
1-Methylnaphthalene	83		55	6.1	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
2-Methylnaphthalene	120		55	9.8	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Naphthalene	81		55	6.1	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Phenanthrene	110		11	5.4	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Pyrene	62		28	5.1	ug/Kg	☼	03/14/13 10:53	03/15/13 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				03/14/13 10:53	03/15/13 23:34	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

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

Lab Sample ID: MB 660-135392/1-A

Matrix: Solid

Analysis Batch: 135469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Fluorene	20	U	20	4.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Naphthalene	40	U	40	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Pyrene	20	U	20	3.7	ug/Kg		03/14/13 10:53	03/15/13 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130	03/14/13 10:53	03/15/13 16:51	1

Lab Sample ID: LCS 660-135392/2-A

Matrix: Solid

Analysis Batch: 135469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	659	486		ug/Kg		74	39 - 130
Acenaphthylene	659	499		ug/Kg		76	38 - 130
Anthracene	659	482		ug/Kg		73	37 - 130
Benzo[a]anthracene	659	483		ug/Kg		73	40 - 130
Benzo[a]pyrene	659	451		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	659	451		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	659	483		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	659	550		ug/Kg		83	32 - 130
Chrysene	659	458		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	659	475		ug/Kg		72	27 - 130
Fluoranthene	659	497		ug/Kg		75	40 - 130
Fluorene	659	539		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	659	441		ug/Kg		67	30 - 130
1-Methylnaphthalene	659	509		ug/Kg		77	31 - 130
2-Methylnaphthalene	659	494		ug/Kg		75	33 - 130
Naphthalene	659	490		ug/Kg		74	36 - 130
Phenanthrene	659	493		ug/Kg		75	42 - 130
Pyrene	659	499		ug/Kg		76	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 660-135392/2-A
Matrix: Solid
Analysis Batch: 135469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135392

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>LCS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	71		30 - 130

Lab Sample ID: 680-88118-21 MS
Matrix: Solid
Analysis Batch: 135469

Client Sample ID: FM0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 135392

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	610	U	1010	793		ug/Kg	☼	78	39 - 130
Acenaphthylene	240	U	1010	831		ug/Kg	☼	82	38 - 130
Anthracene	120		1010	919		ug/Kg	☼	79	37 - 130
Benzo[a]anthracene	520		1010	1330		ug/Kg	☼	80	40 - 130
Benzo[a]pyrene	440		1010	1220		ug/Kg	☼	77	49 - 130
Benzo[b]fluoranthene	770		1010	1440		ug/Kg	☼	66	37 - 130
Benzo[g,h,i]perylene	330		1010	983		ug/Kg	☼	64	32 - 130
Benzo[k]fluoranthene	280		1010	1210		ug/Kg	☼	92	32 - 130
Chrysene	630		1010	1270		ug/Kg	☼	64	41 - 130
Dibenz(a,h)anthracene	110	J	1010	867		ug/Kg	☼	75	27 - 130
Fluoranthene	1000		1010	1730		ug/Kg	☼	72	40 - 130
Fluorene	57	J	1010	795		ug/Kg	☼	73	40 - 130
Indeno[1,2,3-cd]pyrene	290		1010	995		ug/Kg	☼	70	30 - 130
1-Methylnaphthalene	98	J	1010	924		ug/Kg	☼	82	31 - 130
2-Methylnaphthalene	210	J	1010	986		ug/Kg	☼	77	33 - 130
Naphthalene	190	J	1010	935		ug/Kg	☼	74	36 - 130
Phenanthrene	620		1010	1380		ug/Kg	☼	75	42 - 130
Pyrene	880		1010	1630		ug/Kg	☼	74	44 - 130

<i>Surrogate</i>	<i>MS</i> %Recovery	<i>MS</i> Qualifier	<i>Limits</i>
<i>o-Terphenyl</i>	73		30 - 130

Lab Sample ID: 680-88118-21 MSD
Matrix: Solid
Analysis Batch: 135469

Client Sample ID: FM0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 135392

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Acenaphthene	610	U	1010	757		ug/Kg	☼	75	39 - 130	5	40
Acenaphthylene	240	U	1010	875		ug/Kg	☼	86	38 - 130	5	40
Anthracene	120		1010	848		ug/Kg	☼	72	37 - 130	8	40
Benzo[a]anthracene	520		1010	1330		ug/Kg	☼	80	40 - 130	0	40
Benzo[a]pyrene	440		1010	1090		ug/Kg	☼	64	49 - 130	11	40
Benzo[b]fluoranthene	770		1010	1480		ug/Kg	☼	70	37 - 130	2	40
Benzo[g,h,i]perylene	330		1010	996		ug/Kg	☼	65	32 - 130	1	40
Benzo[k]fluoranthene	280		1010	1230		ug/Kg	☼	94	32 - 130	2	40
Chrysene	630		1010	1290		ug/Kg	☼	66	41 - 130	1	40
Dibenz(a,h)anthracene	110	J	1010	824		ug/Kg	☼	71	27 - 130	5	40
Fluoranthene	1000		1010	1680		ug/Kg	☼	66	40 - 130	3	40
Fluorene	57	J	1010	731		ug/Kg	☼	67	40 - 130	8	40
Indeno[1,2,3-cd]pyrene	290		1010	1040		ug/Kg	☼	74	30 - 130	4	40
1-Methylnaphthalene	98	J	1010	887		ug/Kg	☼	78	31 - 130	4	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: 680-88118-21 MSD

Matrix: Solid

Analysis Batch: 135469

Client Sample ID: FM0116B-CS-SP

Prep Type: Total/NA

Prep Batch: 135392

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Methylnaphthalene	210	J	1010	916		ug/Kg	☆	70	33 - 130	7	40
Naphthalene	190	J	1010	853		ug/Kg	☆	66	36 - 130	9	40
Phenanthrene	620		1010	1320		ug/Kg	☆	69	42 - 130	5	40
Pyrene	880		1010	1630		ug/Kg	☆	74	44 - 130	0	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	72		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

GC/MS Semi VOA

Prep Batch: 135392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-21	FM0116B-CS-SP	Total/NA	Solid	3546	
680-88118-21 MS	FM0116B-CS-SP	Total/NA	Solid	3546	
680-88118-21 MSD	FM0116B-CS-SP	Total/NA	Solid	3546	
680-88118-22	HP0113A-CS	Total/NA	Solid	3546	
680-88118-23	HP0113A-CSD	Total/NA	Solid	3546	
680-88118-23 - DL	HP0113A-CSD	Total/NA	Solid	3546	
680-88118-24	CV0166A-CS	Total/NA	Solid	3546	
680-88118-25	CV0166B-CS	Total/NA	Solid	3546	
680-88118-26	CV0350A-CS	Total/NA	Solid	3546	
680-88118-27	CV0350B-CS	Total/NA	Solid	3546	
680-88118-28	CV0350C-GS	Total/NA	Solid	3546	
680-88118-29	CV0518A-CS	Total/NA	Solid	3546	
680-88118-30	CV0518B-CS	Total/NA	Solid	3546	
680-88118-31	CV0822A-CS	Total/NA	Solid	3546	
680-88118-32	CV0822B-CS	Total/NA	Solid	3546	
680-88118-33	CV0822C-CS	Total/NA	Solid	3546	
680-88118-34	CV0822D-CS	Total/NA	Solid	3546	
680-88118-35	CV0822E-CS	Total/NA	Solid	3546	
680-88118-36	CV0822F-CS	Total/NA	Solid	3546	
680-88118-37	CV0822F-CSD	Total/NA	Solid	3546	
680-88118-38	CV0911A-CS	Total/NA	Solid	3546	
680-88118-39	CV0911B-CS	Total/NA	Solid	3546	
LCS 660-135392/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135392/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-21	FM0116B-CS-SP	Total/NA	Solid	8270C LL	135392
680-88118-21 MS	FM0116B-CS-SP	Total/NA	Solid	8270C LL	135392
680-88118-21 MSD	FM0116B-CS-SP	Total/NA	Solid	8270C LL	135392
680-88118-22	HP0113A-CS	Total/NA	Solid	8270C LL	135392
680-88118-23	HP0113A-CSD	Total/NA	Solid	8270C LL	135392
680-88118-24	CV0166A-CS	Total/NA	Solid	8270C LL	135392
680-88118-25	CV0166B-CS	Total/NA	Solid	8270C LL	135392
680-88118-26	CV0350A-CS	Total/NA	Solid	8270C LL	135392
680-88118-27	CV0350B-CS	Total/NA	Solid	8270C LL	135392
680-88118-28	CV0350C-GS	Total/NA	Solid	8270C LL	135392
680-88118-29	CV0518A-CS	Total/NA	Solid	8270C LL	135392
680-88118-30	CV0518B-CS	Total/NA	Solid	8270C LL	135392
680-88118-31	CV0822A-CS	Total/NA	Solid	8270C LL	135392
680-88118-32	CV0822B-CS	Total/NA	Solid	8270C LL	135392
680-88118-33	CV0822C-CS	Total/NA	Solid	8270C LL	135392
680-88118-34	CV0822D-CS	Total/NA	Solid	8270C LL	135392
680-88118-35	CV0822E-CS	Total/NA	Solid	8270C LL	135392
680-88118-36	CV0822F-CS	Total/NA	Solid	8270C LL	135392
680-88118-37	CV0822F-CSD	Total/NA	Solid	8270C LL	135392
680-88118-38	CV0911A-CS	Total/NA	Solid	8270C LL	135392
680-88118-39	CV0911B-CS	Total/NA	Solid	8270C LL	135392
LCS 660-135392/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135392
MB 660-135392/1-A	Method Blank	Total/NA	Solid	8270C LL	135392

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

GC/MS Semi VOA (Continued)

Analysis Batch: 135536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-23 - DL	HP0113A-CSD	Total/NA	Solid	8270C LL	135392

General Chemistry

Analysis Batch: 135258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88118-21	FM0116B-CS-SP	Total/NA	Solid	Moisture	
680-88118-21 MS	FM0116B-CS-SP	Total/NA	Solid	Moisture	
680-88118-21 MSD	FM0116B-CS-SP	Total/NA	Solid	Moisture	
680-88118-22	HP0113A-CS	Total/NA	Solid	Moisture	
680-88118-23	HP0113A-CSD	Total/NA	Solid	Moisture	
680-88118-24	CV0166A-CS	Total/NA	Solid	Moisture	
680-88118-25	CV0166B-CS	Total/NA	Solid	Moisture	
680-88118-26	CV0350A-CS	Total/NA	Solid	Moisture	
680-88118-27	CV0350B-CS	Total/NA	Solid	Moisture	
680-88118-28	CV0350C-GS	Total/NA	Solid	Moisture	
680-88118-29	CV0518A-CS	Total/NA	Solid	Moisture	
680-88118-30	CV0518B-CS	Total/NA	Solid	Moisture	
680-88118-31	CV0822A-CS	Total/NA	Solid	Moisture	
680-88118-32	CV0822B-CS	Total/NA	Solid	Moisture	
680-88118-33	CV0822C-CS	Total/NA	Solid	Moisture	
680-88118-34	CV0822D-CS	Total/NA	Solid	Moisture	
680-88118-35	CV0822E-CS	Total/NA	Solid	Moisture	
680-88118-36	CV0822F-CS	Total/NA	Solid	Moisture	
680-88118-37	CV0822F-CSD	Total/NA	Solid	Moisture	
680-88118-38	CV0911A-CS	Total/NA	Solid	Moisture	
680-88118-39	CV0911B-CS	Total/NA	Solid	Moisture	
MB 660-135258/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: FM0116B-CS-SP

Lab Sample ID: 680-88118-21

Date Collected: 03/06/13 10:47

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 65.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 17:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: HP0113A-CS

Lab Sample ID: 680-88118-22

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 18:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: HP0113A-CSD

Lab Sample ID: 680-88118-23

Date Collected: 03/06/13 08:35

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 18:40	SCC	TAL TAM
Total/NA	Prep	3546	DL		135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	20	135536	03/19/13 14:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0166A-CS

Lab Sample ID: 680-88118-24

Date Collected: 03/06/13 15:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135469	03/15/13 18:59	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0166B-CS

Lab Sample ID: 680-88118-25

Date Collected: 03/06/13 15:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 19:17	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0350A-CS

Lab Sample ID: 680-88118-26

Date Collected: 03/06/13 13:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135469	03/15/13 19:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0350B-CS

Lab Sample ID: 680-88118-27

Date Collected: 03/06/13 14:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 19:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0350C-GS

Lab Sample ID: 680-88118-28

Date Collected: 03/06/13 14:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 20:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0518A-CS

Lab Sample ID: 680-88118-29

Date Collected: 03/06/13 14:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 20:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0518B-CS

Lab Sample ID: 680-88118-30

Date Collected: 03/06/13 15:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 20:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822A-CS

Lab Sample ID: 680-88118-31

Date Collected: 03/06/13 12:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 21:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0822B-CS

Lab Sample ID: 680-88118-32

Date Collected: 03/06/13 12:30

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 21:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0822C-CS

Lab Sample ID: 680-88118-33

Date Collected: 03/06/13 12:40

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 21:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0822D-CS

Lab Sample ID: 680-88118-34

Date Collected: 03/06/13 12:50

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135469	03/15/13 22:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0822E-CS

Lab Sample ID: 680-88118-35

Date Collected: 03/06/13 13:00

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 22:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Client Sample ID: CV0822F-CS

Lab Sample ID: 680-88118-36

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 22:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0822F-CSD

Lab Sample ID: 680-88118-37

Date Collected: 03/06/13 13:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 22:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0911A-CS

Lab Sample ID: 680-88118-38

Date Collected: 03/06/13 15:10

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135469	03/15/13 23:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Client Sample ID: CV0911B-CS

Lab Sample ID: 680-88118-39

Date Collected: 03/06/13 15:20

Matrix: Solid

Date Received: 03/08/13 09:21

Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135469	03/15/13 23:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135258	03/11/13 12:26	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 59588

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 35th Avenue Removal	PROJECT NO.	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS				PAGE 2 OF 4
TAL (LAB) PROJECT MANAGER Lisa Horvath	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) LUPAH RCRA 8	PRESERVATIVE				STANDARD REPORT DELIVERY DATE DUE _____
CLIENT NAME	CLIENT EMAIL	CLIENT FAX						EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____
				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:				

(b) (6)
(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											
3/6/13	0857	CV0713A-CS-SP	C	✓			X					
	0911	CV0713B-CS-SP	C	✓			X					
	0930	CV0844A-CS	C	✓			X					
	0940	CV0844B-CS	C	✓			X					
	0905	CV0846A-CS	C	✓			X					
	10:45	CV0945A-CS	C	✓			X					
	10:15	CV0960A-CS	C	✓			X					
	1037	FM0116A-CS-SP	C	✓			X					
	10:47	FM0116B-CS-SP	C	✓			X					
	08:35	NP0113A-CS	C	✓			X					
	08:35	NP0113A-CSO	C	✓			X					
	15:40	CV0116A-CS	C	✓			X					

Page 25 of 32

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/7/13	TIME 18:00	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 03/06/13	TIME 0921	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88118	LABORATORY REMARKS 2-80
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3/20/2013



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 Avenue Renovation</i>	PROJECT NO. <i>35</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i> OF <i>4</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER <i>200548-1356</i>	CONTRACT NO.	CLIENT FAX	STANDARD REPORT DELIVERY DATE DUE _____
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COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY DATE DUE _____
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CLIENT ADDRESS	EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____
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COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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PRESERVATIVE				NUMBER OF CONTAINERS SUBMITTED	REMARKS
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DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
								1	2	3	4	5	6	7	8	9	10		11	12	
<i>3/11/13</i>	<i>15:50</i>	<i>CVX1166B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>13:50</i>	<i>CVX350A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>14:00</i>	<i>CVX350B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>													
	<i>14:10</i>	<i>CVX350C-GS</i>	<i>G</i>	<i>✓</i>			<i>X</i>														
	<i>14:50</i>	<i>CVX518A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>15:00</i>	<i>CVX518B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>12:20</i>	<i>CVX822A-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>	<i>X</i>													
	<i>12:30</i>	<i>CVX822B-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>12:40</i>	<i>CVX822C-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>12:50</i>	<i>CVX822D-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>13:00</i>	<i>CVX822E-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														
	<i>13:10</i>	<i>CVX822F-CS</i>	<i>C</i>	<i>✓</i>			<i>X</i>														

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3/7/13</i>	TIME <i>1800</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
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RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
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RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/08/13</i>	TIME <i>0921</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88118</i>	LABORATORY REMARKS <i>2.8 °</i>
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(b) (6)
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(b) (6)

Page 26 of 32

3/20/2013

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 35th Ave Removal	PROJECT NO.	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 4 OF 9
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER 2005148-1356	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	<p style="text-align: center;">PRESERVATIVE</p>	STANDARD REPORT DELIVERY DATE DUE _____
	CLIENT FAX				EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____

(b) (6)
(b) (6)
(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12
3/6/13	13:10	CV0822A-CS0	C	✓			X													
	15:10	CV0911A-CS	C	✓			X	X												
	15:20	CV0911B-CS	C	✓			X	X												
	14:00	CV0850B-CS (sieve)	C	✓			X	X												
	15:10	CV0911A-CS (sieve)	C	✓			X	X												
	050	CV0684B-CS-SP (sieve)	C	✓			X	X												
	12:20	CV0822A (sieve)	C	✓			X	X												

Page 27 of 32

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/7/13	TIME 1800	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 03/02/13	TIME 0921	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 88118	LABORATORY REMARKS 2-8°C
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3/20/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

List Creation: 03/09/13 12:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <math><6\text{mm}</math> (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: 680-88118-2

SDG Number: 68088118-2

Login Number: 88118

List Number: 2

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 03/12/13 08:49 AM

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	

Certification Summary

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

TestAmerica Job ID: 680-88118-2
 SDG: 68088118-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
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
Connecticut	State Program	1	PH-0161	03-31-13
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
New York	NELAP	2	10842	04-01-13
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

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88118-2
SDG: 68088118-2

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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