

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster / Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-89038-1
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/03/2013
 Date: 04/24/2013
 Date: 05/02/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 040213-RB-sieve (680-88913-17).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 040213-RB-sieve (680-88913-17) was collected during the week of 4/01/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88913-1.	
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?	✓			CV0053A-CSD (680-89038-10) is a field duplicate of CV0053A-CS (680-89038-9).	
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"> Instrument ID: BSMC5973 Initial Calibration: 04/11/2013 ICV: 04/11/13 @ 14:25 CCV: 04/12/13 @ 11:42 	
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 $r < 0.995$, 	✓				

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 ○ 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"> ○ If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ○ If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
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)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 136277: 680-89038-6 (CV1311B-CS-SP), MS/MSD • Prep Batch 136266: 680-88980-21 (CV0151A-CS), MS/MSD. Lab sample 680-88980-21 is a project-specific sample (CV0151A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-88980-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> • 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 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples 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 > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN, with 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)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<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>					

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: 680-89038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89038-1	CV0496A-CS-SP	Solid	04/03/13 09:40	04/05/13 11:23
680-89038-2	CV0496B-CS-SP	Solid	04/03/13 09:50	04/05/13 11:23
680-89038-3	CV0497A-CS-SP	Solid	04/03/13 09:10	04/05/13 11:23
680-89038-4	CV0497B-CS-SP	Solid	04/03/13 09:20	04/05/13 11:23
680-89038-5	CV1311A-CS-SP	Solid	04/03/13 10:25	04/05/13 11:23
680-89038-6	CV1311B-CS-SP	Solid	04/03/13 10:35	04/05/13 11:23
680-89038-7	CV0052A-CS	Solid	04/03/13 11:25	04/05/13 11:23
680-89038-8	CV0052B-CS	Solid	04/03/13 11:30	04/05/13 11:23
680-89038-9	CV0053A-CS	Solid	04/03/13 09:10	04/05/13 11:23
680-89038-10	CV0053A-CSD	Solid	04/03/13 09:15	04/05/13 11:23
680-89038-11	CV0053B-CS	Solid	04/03/13 09:25	04/05/13 11:23
680-89038-12	CV0053C-CS	Solid	04/03/13 09:30	04/05/13 11:23
680-89038-13	CV0053D-CS	Solid	04/03/13 09:40	04/05/13 11:23
680-89038-14	CV0789A-CS	Solid	04/03/13 10:44	04/05/13 11:23
680-89038-15	CV0789B-CS	Solid	04/03/13 10:49	04/05/13 11:23
680-89038-16	CV0818A-CS	Solid	04/03/13 10:00	04/05/13 11:23
680-89038-17	CV0818B-CS	Solid	04/03/13 10:07	04/05/13 11:23
680-89038-18	CV0741A-CS-SP	Solid	04/03/13 13:50	04/05/13 11:23
680-89038-19	CV0741B-CS-SP	Solid	04/03/13 14:00	04/05/13 11:23
680-89038-20	CV0741C-GS-SP	Solid	04/03/13 14:05	04/05/13 11:23

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Analyte	CV0053A-CS 680-89038-9	RL	CV0053A-CSD 680-89038-10	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		67	63	J 230	µg/kg	742.5	NA	63	297	None, absolute difference ≤ 2x Avg RL
Anthracene	19	14	72	48	µg/kg	155	NA	53	62	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	62	17	220	59	µg/kg	190	NA	158	76	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	77	20	320	69	µg/kg	222.5	NA	243	89	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	48	34	170	110	µg/kg	360	NA	122	144	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	20	13	65	45	µg/kg	145	NA	45	58	None, absolute difference ≤ 2x Avg RL
Chrysene	65	15	240	51	µg/kg	165	NA	175	66	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	85	34	290	110	µg/kg	360	NA	205	144	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene		34	36	J 110	µg/kg	360	NA	36	144	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	100	34	360	110	µg/kg	360	NA	260	144	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	55	J 67	140	J 230	µg/kg	742.5	NA	85	297	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	100	67	330	230	µg/kg	742.5	NA	230	297	None, absolute difference ≤ 2x Avg RL
Naphthalene	100	67	250	230	µg/kg	742.5	NA	150	297	None, absolute difference ≤ 2x Avg RL
Phenanthrene	100	13	310	45	µg/kg	145	NA	210	58	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	57	34	220	110	µg/kg	360	NA	163	144	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

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-89038-1

Job ID: 680-89038-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89038-1

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

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

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

RECEIPT

The samples were received on 04/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0496A-CS-SP (680-89038-1), CV0496B-CS-SP (680-89038-2), CV0497A-CS-SP (680-89038-3), CV0497B-CS-SP (680-89038-4), CV1311A-CS-SP (680-89038-5), CV1311B-CS-SP (680-89038-6), CV0052A-CS (680-89038-7), CV0052B-CS (680-89038-8), CV0053A-CS (680-89038-9), CV0053A-CSD (680-89038-10), CV0053B-CS (680-89038-11), CV0053C-CS (680-89038-12), CV0053D-CS (680-89038-13), CV0789A-CS (680-89038-14), CV0789B-CS (680-89038-15), CV0818A-CS (680-89038-16), CV0818B-CS (680-89038-17), CV0741A-CS-SP (680-89038-18), CV0741B-CS-SP (680-89038-19) and CV0741C-GS-SP (680-89038-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013 and 04/12/2013.

Samples CV1311A-CS-SP (680-89038-5)[4X], CV0052B-CS (680-89038-8)[4X], CV0053A-CSD (680-89038-10)[4X], CV0053C-CS (680-89038-12)[4X], CV0053D-CS (680-89038-13)[4X] and CV0818B-CS (680-89038-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria low for the MS of sample 680-88980-21 in batch 660-136370. Several analytes exceeded the rpd limit for the MSD of sample 680-88980-21 in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0496A-CS-SP

Lab Sample ID: 680-89038-1

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Acenaphthylene	12	J	55	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Anthracene	33		11	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[a]anthracene	91		11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[a]pyrene	85		14	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[b]fluoranthene	160		17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[g,h,i]perylene	73		27	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[k]fluoranthene	52		11	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Chrysene	120		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Dibenz(a,h)anthracene	71		27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Fluoranthene	100		27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Fluorene	18	J	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Indeno[1,2,3-cd]pyrene	120		27	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
1-Methylnaphthalene	92		55	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
2-Methylnaphthalene	150		55	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Naphthalene	150		55	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Phenanthrene	150		11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Pyrene	96		27	5.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130	04/09/13 13:55	04/11/13 17:36	1

Client Sample ID: CV0496B-CS-SP

Lab Sample ID: 680-89038-2

Date Collected: 04/03/13 09:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 64.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Acenaphthylene	62	U	62	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Anthracene	29		13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[a]anthracene	82		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[a]pyrene	76		16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[b]fluoranthene	110		19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[g,h,i]perylene	46		31	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[k]fluoranthene	31		12	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Chrysene	96		14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Dibenz(a,h)anthracene	31	U	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Fluoranthene	170		31	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Fluorene	18	J	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Indeno[1,2,3-cd]pyrene	130		31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
1-Methylnaphthalene	62		62	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
2-Methylnaphthalene	92		62	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Naphthalene	110		62	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Phenanthrene	150		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Pyrene	140		31	5.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	04/09/13 13:55	04/11/13 17:54	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0497A-CS-SP

Lab Sample ID: 680-89038-3

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 54.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	37	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Acenaphthylene	73	U	73	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Anthracene	25		15	7.7	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[a]anthracene	200		15	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[a]pyrene	190		19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[b]fluoranthene	350		22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[g,h,i]perylene	180		37	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[k]fluoranthene	130		15	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Chrysene	220		17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Dibenz(a,h)anthracene	97		37	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Fluoranthene	220		37	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Fluorene	22	J	37	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Indeno[1,2,3-cd]pyrene	180		37	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
1-Methylnaphthalene	66	J	73	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
2-Methylnaphthalene	110		73	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Naphthalene	120		73	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Phenanthrene	150		15	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Pyrene	250		37	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/09/13 13:55	04/11/13 18:13	1

Client Sample ID: CV0497B-CS-SP

Lab Sample ID: 680-89038-4

Date Collected: 04/03/13 09:20

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 56.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Acenaphthylene	9.1	J	71	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Anthracene	15	U	15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[a]anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[a]pyrene	25		18	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[b]fluoranthene	35		22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[g,h,i]perylene	26	J	35	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[k]fluoranthene	13	J	14	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Chrysene	33		16	8.0	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Dibenz(a,h)anthracene	35	U	35	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Fluoranthene	44		35	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Fluorene	35	U	35	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Indeno[1,2,3-cd]pyrene	110		35	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
1-Methylnaphthalene	43	J	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
2-Methylnaphthalene	150		71	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Naphthalene	120		71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Phenanthrene	14	U	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Pyrene	36		35	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	50		30 - 130				04/09/13 13:55	04/11/13 18:31	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV1311A-CS-SP

Lab Sample ID: 680-89038-5

Date Collected: 04/03/13 10:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 66.0

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	☼	04/09/13 13:55	04/11/13 18:49	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Anthracene	83		51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[a]anthracene	220		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[a]pyrene	240		63	32	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[b]fluoranthene	350		74	37	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[g,h,i]perylene	280		120	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[k]fluoranthene	200		49	22	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Chrysene	450		55	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Dibenz(a,h)anthracene	120	U	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Fluoranthene	390		120	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Fluorene	29	J	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Indeno[1,2,3-cd]pyrene	440		120	43	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
1-Methylnaphthalene	130	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
2-Methylnaphthalene	300		240	43	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Naphthalene	110	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Phenanthrene	340		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Pyrene	350		120	23	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		30 - 130				04/09/13 13:55	04/11/13 18:49	4

Client Sample ID: CV1311B-CS-SP

Lab Sample ID: 680-89038-6

Date Collected: 04/03/13 10:35

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Acenaphthylene	66	U	66	8.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Anthracene	10	J	14	7.0	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[a]anthracene	45		13	6.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[a]pyrene	37		17	8.6	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[b]fluoranthene	65		20	10	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[g,h,i]perylene	41		33	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[k]fluoranthene	27		13	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Chrysene	51		15	7.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Dibenz(a,h)anthracene	33	U	33	6.8	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Fluoranthene	74		33	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Fluorene	16	J	33	6.8	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Indeno[1,2,3-cd]pyrene	110		33	12	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
1-Methylnaphthalene	32	J	66	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
2-Methylnaphthalene	72		66	12	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Naphthalene	46	J	66	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Phenanthrene	55		13	6.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Pyrene	54		33	6.2	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 12:20	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0052A-CS

Lab Sample ID: 680-89038-7

Date Collected: 04/03/13 11:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 60.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	280		170	33	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Acenaphthylene	27	J	66	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Anthracene	360		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[a]anthracene	1100		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[a]pyrene	910		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[b]fluoranthene	1700		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[g,h,i]perylene	670		33	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[k]fluoranthene	600		13	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Chrysene	1200		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Dibenz(a,h)anthracene	240		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Fluoranthene	2900		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Fluorene	160		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Indeno[1,2,3-cd]pyrene	710		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
1-Methylnaphthalene	130		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
2-Methylnaphthalene	190		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Naphthalene	460		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Phenanthrene	2500		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Pyrene	2200		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/09/13 13:55	04/11/13 19:08	1

Client Sample ID: CV0052B-CS

Lab Sample ID: 680-89038-8

Date Collected: 04/03/13 11:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	660	U	660	130	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Acenaphthylene	56	J	270	33	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Anthracene	28	J	56	28	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[a]anthracene	160		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[a]pyrene	200		69	35	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[b]fluoranthene	260		81	41	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[g,h,i]perylene	120	J	130	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[k]fluoranthene	180		53	24	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Chrysene	250		60	30	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Fluoranthene	310		130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Fluorene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Indeno[1,2,3-cd]pyrene	130	U	130	47	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
1-Methylnaphthalene	89	J	270	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
2-Methylnaphthalene	290		270	47	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Naphthalene	170	J	270	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Phenanthrene	200		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Pyrene	310		130	25	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130				04/09/13 13:55	04/11/13 19:26	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053A-CS

Lab Sample ID: 680-89038-9

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Acenaphthylene	67	U	67	8.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Anthracene	19		14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[a]anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[a]pyrene	62	J	17	8.7	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[b]fluoranthene	77	J	20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[g,h,i]perylene	48		34	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[k]fluoranthene	20		13	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Chrysene	65	J	15	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Dibenz(a,h)anthracene	34	U	34	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Fluoranthene	85	J	34	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Fluorene	34	U	34	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Indeno[1,2,3-cd]pyrene	100	J	34	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
1-Methylnaphthalene	55	J	67	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
2-Methylnaphthalene	100		67	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Naphthalene	100		67	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Phenanthrene	100	J	13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Pyrene	57	J	34	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				04/09/13 13:55	04/11/13 19:44	1

Client Sample ID: CV0053A-CSD

Lab Sample ID: 680-89038-10

Date Collected: 04/03/13 09:15

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Acenaphthylene	63	J	230	28	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Anthracene	72		48	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[a]anthracene	45	U	45	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[a]pyrene	220	J	59	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[b]fluoranthene	320	J	69	35	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[g,h,i]perylene	170		110	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[k]fluoranthene	65		45	20	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Chrysene	240	J	51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Fluoranthene	290	J	110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Fluorene	36	J	110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Indeno[1,2,3-cd]pyrene	360	J	110	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
1-Methylnaphthalene	140	J	230	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
2-Methylnaphthalene	330		230	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Naphthalene	250		230	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Phenanthrene	310	J	45	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Pyrene	220	J	110	21	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		30 - 130				04/09/13 13:55	04/11/13 20:03	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053B-CS

Lab Sample ID: 680-89038-11

Date Collected: 04/03/13 09:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Acenaphthylene	20	J	66	8.2	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Anthracene	31		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[a]anthracene	200		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[a]pyrene	130		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[b]fluoranthene	250		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[g,h,i]perylene	140		33	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[k]fluoranthene	85		13	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Chrysene	210		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Dibenz(a,h)anthracene	90		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Fluoranthene	250		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Fluorene	18	J	33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Indeno[1,2,3-cd]pyrene	180		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
1-Methylnaphthalene	220		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
2-Methylnaphthalene	250		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Naphthalene	210		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Phenanthrene	240		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Pyrene	240		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				04/09/13 13:55	04/11/13 20:21	1

Client Sample ID: CV0053C-CS

Lab Sample ID: 680-89038-12

Date Collected: 04/03/13 09:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 63.9

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	☼	04/09/13 13:55	04/11/13 20:39	4
Acenaphthylene	63	J	240	30	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Anthracene	44	J	51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[a]anthracene	49	U	49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[a]pyrene	240		63	32	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[b]fluoranthene	370		74	37	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[g,h,i]perylene	260		120	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[k]fluoranthene	120		49	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Chrysene	240		55	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Dibenz(a,h)anthracene	120	U	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Fluoranthene	280		120	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Fluorene	39	J	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Indeno[1,2,3-cd]pyrene	420		120	43	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
1-Methylnaphthalene	240	U	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
2-Methylnaphthalene	180	J	240	43	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Naphthalene	85	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Phenanthrene	250		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Pyrene	270		120	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130				04/09/13 13:55	04/11/13 20:39	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053D-CS

Lab Sample ID: 680-89038-13

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	660	U	660	130	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Acenaphthylene	82	J	260	33	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Anthracene	86		55	28	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[a]anthracene	240		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[a]pyrene	190		69	34	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[b]fluoranthene	340		81	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[g,h,i]perylene	300		130	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[k]fluoranthene	120		53	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Chrysene	310		59	30	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Fluoranthene	340		130	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Fluorene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Indeno[1,2,3-cd]pyrene	520		130	47	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
1-Methylnaphthalene	630		260	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
2-Methylnaphthalene	800		260	47	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Naphthalene	400		260	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Phenanthrene	510		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Pyrene	360		130	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		30 - 130				04/09/13 13:55	04/11/13 20:58	4

Client Sample ID: CV0789A-CS

Lab Sample ID: 680-89038-14

Date Collected: 04/03/13 10:44

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Acenaphthylene	25	J	61	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Anthracene	25		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[a]anthracene	110		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[a]pyrene	120		16	8.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[b]fluoranthene	220		19	9.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[g,h,i]perylene	120		31	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[k]fluoranthene	79		12	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Chrysene	140		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Dibenz(a,h)anthracene	71		31	6.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Fluoranthene	130		31	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Fluorene	31	U	31	6.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Indeno[1,2,3-cd]pyrene	140		31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
1-Methylnaphthalene	53	J	61	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
2-Methylnaphthalene	110		61	11	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Naphthalene	72		61	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Phenanthrene	88		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Pyrene	120		31	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/09/13 13:55	04/11/13 21:16	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0789B-CS

Lab Sample ID: 680-89038-15

Date Collected: 04/03/13 10:49

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 67.6

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	☼	04/09/13 13:55	04/11/13 21:34	1
Acenaphthylene	12	J	59	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Anthracene	23		12	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[a]anthracene	79		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[a]pyrene	46		15	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[b]fluoranthene	80		18	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[g,h,i]perylene	53		29	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[k]fluoranthene	23		12	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Chrysene	94		13	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Dibenz(a,h)anthracene	29	U	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Fluoranthene	83		29	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Fluorene	8.7	J	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Indeno[1,2,3-cd]pyrene	92		29	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
1-Methylnaphthalene	250		59	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
2-Methylnaphthalene	230		59	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Naphthalene	130		59	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Phenanthrene	200		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Pyrene	88		29	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				04/09/13 13:55	04/11/13 21:34	1

Client Sample ID: CV0818A-CS

Lab Sample ID: 680-89038-16

Date Collected: 04/03/13 10:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Acenaphthylene	49	J	66	8.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Anthracene	62		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[a]anthracene	210		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[a]pyrene	220		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[b]fluoranthene	330		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[g,h,i]perylene	150		33	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[k]fluoranthene	110		13	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Chrysene	240		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Dibenz(a,h)anthracene	99		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Fluoranthene	400		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Fluorene	24	J	33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Indeno[1,2,3-cd]pyrene	180		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
1-Methylnaphthalene	53	J	66	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
2-Methylnaphthalene	110		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Naphthalene	88		66	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Phenanthrene	200		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Pyrene	380		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				04/09/13 13:55	04/11/13 21:53	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0818B-CS

Lab Sample ID: 680-89038-17

Date Collected: 04/03/13 10:07

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Acenaphthylene	33	J	220	27	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Anthracene	31	J	46	23	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[a]anthracene	43	U	43	21	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[a]pyrene	110		56	28	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[b]fluoranthene	140		66	33	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[g,h,i]perylene	82	J	110	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[k]fluoranthene	66		43	20	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Chrysene	83		49	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Fluoranthene	130		110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Fluorene	110	U	110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Indeno[1,2,3-cd]pyrene	110	U	110	39	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
1-Methylnaphthalene	43	J	220	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
2-Methylnaphthalene	170	J	220	39	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Naphthalene	45	J	220	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Phenanthrene	43	U	43	21	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Pyrene	130		110	20	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	108		30 - 130				04/09/13 16:11	04/12/13 13:15	4

Client Sample ID: CV0741A-CS-SP

Lab Sample ID: 680-89038-18

Date Collected: 04/03/13 13:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[a]anthracene	11	U	11	5.2	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[a]pyrene	35		14	6.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[b]fluoranthene	65		16	8.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[g,h,i]perylene	29		27	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[k]fluoranthene	17		11	4.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Chrysene	27		12	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Fluoranthene	50		27	5.3	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Fluorene	27	U	27	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Indeno[1,2,3-cd]pyrene	85		27	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
1-Methylnaphthalene	5.9	J	53	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
2-Methylnaphthalene	53	U	53	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Naphthalene	7.0	J	53	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Phenanthrene	11	U	11	5.2	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Pyrene	39		27	4.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		30 - 130				04/09/13 16:11	04/12/13 13:34	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0741B-CS-SP

Lab Sample ID: 680-89038-19

Date Collected: 04/03/13 14:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Acenaphthylene	12	J	60	7.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Anthracene	13	U	13	6.3	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[a]anthracene	12	U	12	5.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[a]pyrene	28		16	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[b]fluoranthene	35		18	9.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[g,h,i]perylene	13	J	30	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[k]fluoranthene	11	J	12	5.4	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Chrysene	17		13	6.7	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Dibenz(a,h)anthracene	30	U	30	6.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Fluoranthene	32		30	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Fluorene	30	U	30	6.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Indeno[1,2,3-cd]pyrene	30	U	30	11	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
1-Methylnaphthalene	7.5	J	60	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
2-Methylnaphthalene	60	U	60	11	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Naphthalene	6.9	J	60	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Phenanthrene	12	U	12	5.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Pyrene	13	J	30	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 13:52	1

Client Sample ID: CV0741C-GS-SP

Lab Sample ID: 680-89038-20

Date Collected: 04/03/13 14:05

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 51.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	U	190	38	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Acenaphthylene	21	J	76	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Anthracene	16	U	16	8.0	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[a]anthracene	45		15	7.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[a]pyrene	23		20	9.9	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[b]fluoranthene	51		23	12	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[g,h,i]perylene	50		38	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[k]fluoranthene	21		15	6.9	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Chrysene	33		17	8.6	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Dibenz(a,h)anthracene	38	U	38	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Fluoranthene	31	J	38	7.6	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Fluorene	38	U	38	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Indeno[1,2,3-cd]pyrene	38	U	38	14	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
1-Methylnaphthalene	76	U	76	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
2-Methylnaphthalene	76	U	76	14	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Naphthalene	19	J	76	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Phenanthrene	15	U	15	7.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Pyrene	18	J	38	7.1	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 14:10	1

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

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-89038-1

Job Description: 35th Avenue Superfund Site

For:

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

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
4/17/2013 12:32 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/17/2013

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



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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89038-1

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

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

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

RECEIPT

The samples were received on 04/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0496A-CS-SP (680-89038-1), CV0496B-CS-SP (680-89038-2), CV0497A-CS-SP (680-89038-3), CV0497B-CS-SP (680-89038-4), CV1311A-CS-SP (680-89038-5), CV1311B-CS-SP (680-89038-6), CV0052A-CS (680-89038-7), CV0052B-CS (680-89038-8), CV0053A-CS (680-89038-9), CV0053A-CSD (680-89038-10), CV0053B-CS (680-89038-11), CV0053C-CS (680-89038-12), CV0053D-CS (680-89038-13), CV0789A-CS (680-89038-14), CV0789B-CS (680-89038-15), CV0818A-CS (680-89038-16), CV0818B-CS (680-89038-17), CV0741A-CS-SP (680-89038-18), CV0741B-CS-SP (680-89038-19) and CV0741C-GS-SP (680-89038-20) were analyzed for Semivolatile Organic Compounds by GCMS -Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013 and 04/12/2013.

Samples CV1311A-CS-SP (680-89038-5)[4X], CV0052B-CS (680-89038-8)[4X], CV0053A-CSD (680-89038-10)[4X], CV0053C-CS (680-89038-12)[4X], CV0053D-CS (680-89038-13)[4X] and CV0818B-CS (680-89038-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria low for the MS of sample 680-88980-21 in batch 660-136370. Several analytes exceeded the rpd limit for the MSD of sample 680-88980-21 in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89038-1	CV0496A-CS-SP	Solid	04/03/2013 0940	04/05/2013 1123
680-89038-2	CV0496B-CS-SP	Solid	04/03/2013 0950	04/05/2013 1123
680-89038-3	CV0497A-CS-SP	Solid	04/03/2013 0910	04/05/2013 1123
680-89038-4	CV0497B-CS-SP	Solid	04/03/2013 0920	04/05/2013 1123
680-89038-5	CV1311A-CS-SP	Solid	04/03/2013 1025	04/05/2013 1123
680-89038-6	CV1311B-CS-SP	Solid	04/03/2013 1035	04/05/2013 1123
680-89038-6MS	CV1311B-CS-SP	Solid	04/03/2013 1035	04/05/2013 1123
680-89038-6MSD	CV1311B-CS-SP	Solid	04/03/2013 1035	04/05/2013 1123
680-89038-7	CV0052A-CS	Solid	04/03/2013 1125	04/05/2013 1123
680-89038-8	CV0052B-CS	Solid	04/03/2013 1130	04/05/2013 1123
680-89038-9	CV0053A-CS	Solid	04/03/2013 0910	04/05/2013 1123
680-89038-10	CV0053A-CSD	Solid	04/03/2013 0915	04/05/2013 1123
680-89038-11	CV0053B-CS	Solid	04/03/2013 0925	04/05/2013 1123
680-89038-12	CV0053C-CS	Solid	04/03/2013 0930	04/05/2013 1123
680-89038-13	CV0053D-CS	Solid	04/03/2013 0940	04/05/2013 1123
680-89038-14	CV0789A-CS	Solid	04/03/2013 1044	04/05/2013 1123
680-89038-15	CV0789B-CS	Solid	04/03/2013 1049	04/05/2013 1123
680-89038-16	CV0818A-CS	Solid	04/03/2013 1000	04/05/2013 1123
680-89038-17	CV0818B-CS	Solid	04/03/2013 1007	04/05/2013 1123
680-89038-18	CV0741A-CS-SP	Solid	04/03/2013 1350	04/05/2013 1123
680-89038-19	CV0741B-CS-SP	Solid	04/03/2013 1400	04/05/2013 1123
680-89038-20	CV0741C-GS-SP	Solid	04/03/2013 1405	04/05/2013 1123

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

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: 680-89038-1

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: 680-89038-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136266					
LCS 660-136266/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136266/1-A	Method Blank	T	Solid	3546	
680-88980-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88980-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89038-1	CV0496A-CS-SP	T	Solid	3546	
680-89038-2	CV0496B-CS-SP	T	Solid	3546	
680-89038-3	CV0497A-CS-SP	T	Solid	3546	
680-89038-4	CV0497B-CS-SP	T	Solid	3546	
680-89038-5	CV1311A-CS-SP	T	Solid	3546	
680-89038-7	CV0052A-CS	T	Solid	3546	
680-89038-8	CV0052B-CS	T	Solid	3546	
680-89038-9	CV0053A-CS	T	Solid	3546	
680-89038-10	CV0053A-CSD	T	Solid	3546	
680-89038-11	CV0053B-CS	T	Solid	3546	
680-89038-12	CV0053C-CS	T	Solid	3546	
680-89038-13	CV0053D-CS	T	Solid	3546	
680-89038-14	CV0789A-CS	T	Solid	3546	
680-89038-15	CV0789B-CS	T	Solid	3546	
680-89038-16	CV0818A-CS	T	Solid	3546	
Prep Batch: 660-136277					
LCS 660-136277/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136277/1-A	Method Blank	T	Solid	3546	
680-89038-6	CV1311B-CS-SP	T	Solid	3546	
680-89038-6MS	Matrix Spike	T	Solid	3546	
680-89038-6MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89038-17	CV0818B-CS	T	Solid	3546	
680-89038-18	CV0741A-CS-SP	T	Solid	3546	
680-89038-19	CV0741B-CS-SP	T	Solid	3546	
680-89038-20	CV0741C-GS-SP	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136370					
LCS 660-136266/2-A	Lab Control Sample	T	Solid	8270C LL	660-136266
MB 660-136266/1-A	Method Blank	T	Solid	8270C LL	660-136266
680-88980-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-136266
680-88980-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136266
680-89038-1	CV0496A-CS-SP	T	Solid	8270C LL	660-136266
680-89038-2	CV0496B-CS-SP	T	Solid	8270C LL	660-136266
680-89038-3	CV0497A-CS-SP	T	Solid	8270C LL	660-136266
680-89038-4	CV0497B-CS-SP	T	Solid	8270C LL	660-136266
680-89038-5	CV1311A-CS-SP	T	Solid	8270C LL	660-136266
680-89038-7	CV0052A-CS	T	Solid	8270C LL	660-136266
680-89038-8	CV0052B-CS	T	Solid	8270C LL	660-136266
680-89038-9	CV0053A-CS	T	Solid	8270C LL	660-136266
680-89038-10	CV0053A-CSD	T	Solid	8270C LL	660-136266
680-89038-11	CV0053B-CS	T	Solid	8270C LL	660-136266
680-89038-12	CV0053C-CS	T	Solid	8270C LL	660-136266
680-89038-13	CV0053D-CS	T	Solid	8270C LL	660-136266
680-89038-14	CV0789A-CS	T	Solid	8270C LL	660-136266
680-89038-15	CV0789B-CS	T	Solid	8270C LL	660-136266
680-89038-16	CV0818A-CS	T	Solid	8270C LL	660-136266
Analysis Batch:660-136371					
LCS 660-136277/2-A	Lab Control Sample	T	Solid	8270C LL	660-136277
MB 660-136277/1-A	Method Blank	T	Solid	8270C LL	660-136277
Analysis Batch:660-136414					
680-89038-6	CV1311B-CS-SP	T	Solid	8270C LL	660-136277
680-89038-6MS	Matrix Spike	T	Solid	8270C LL	660-136277
680-89038-6MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136277
680-89038-17	CV0818B-CS	T	Solid	8270C LL	660-136277
680-89038-18	CV0741A-CS-SP	T	Solid	8270C LL	660-136277
680-89038-19	CV0741B-CS-SP	T	Solid	8270C LL	660-136277
680-89038-20	CV0741C-GS-SP	T	Solid	8270C LL	660-136277

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136226					
680-89038-5	CV1311A-CS-SP	T	Solid	Moisture	
680-89038-6	CV1311B-CS-SP	T	Solid	Moisture	
680-89038-6MS	Matrix Spike	T	Solid	Moisture	
680-89038-6MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89038-7	CV0052A-CS	T	Solid	Moisture	
680-89038-8	CV0052B-CS	T	Solid	Moisture	
680-89038-9	CV0053A-CS	T	Solid	Moisture	
680-89038-10	CV0053A-CSD	T	Solid	Moisture	
680-89038-11	CV0053B-CS	T	Solid	Moisture	
680-89038-12	CV0053C-CS	T	Solid	Moisture	
680-89038-13	CV0053D-CS	T	Solid	Moisture	
680-89038-14	CV0789A-CS	T	Solid	Moisture	
680-89038-15	CV0789B-CS	T	Solid	Moisture	
680-89038-16	CV0818A-CS	T	Solid	Moisture	
680-89038-17	CV0818B-CS	T	Solid	Moisture	
680-89038-18	CV0741A-CS-SP	T	Solid	Moisture	
680-89038-19	CV0741B-CS-SP	T	Solid	Moisture	
680-89038-20	CV0741C-GS-SP	T	Solid	Moisture	
Analysis Batch:660-136229					
LCS 660-136229/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-136229/13	Lab Control Sample Duplicate	T	Solid	Moisture	
680-89038-1	CV0496A-CS-SP	T	Solid	Moisture	
680-89038-2	CV0496B-CS-SP	T	Solid	Moisture	
680-89038-3	CV0497A-CS-SP	T	Solid	Moisture	
680-89038-4	CV0497B-CS-SP	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: ICIS 660-136370/3 Client Sample ID: _____Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 12:40

Lab Sample ID: IC 660-136370/4 Client Sample ID: _____Date Analyzed: 04/11/13 12:35 Lab File ID: 1CD11004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.29	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/5 Client Sample ID: _____Date Analyzed: 04/11/13 12:53 Lab File ID: 1CD11005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:34
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/13 14:33

Lab Sample ID: IC 660-136370/6 Client Sample ID: _____Date Analyzed: 04/11/13 13:11 Lab File ID: 1CD11006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:35

Lab Sample ID: IC 660-136370/7 Client Sample ID: _____Date Analyzed: 04/11/13 13:30 Lab File ID: 1CD11007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: IC 660-136370/8 Client Sample ID: _____Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:36

Lab Sample ID: IC 660-136370/9 Client Sample ID: _____Date Analyzed: 04/11/13 14:06 Lab File ID: 1CD11009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:37

Lab Sample ID: ICV 660-136370/10 Client Sample ID: _____Date Analyzed: 04/11/13 14:25 Lab File ID: 1CD11010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/11/13 14:46

Lab Sample ID: LCS 660-136266/2-A Client Sample ID: _____Date Analyzed: 04/11/13 15:10 Lab File ID: 1CD11012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 09:54

Lab Sample ID: 680-88980-A-21-B MS Client Sample ID: _____Date Analyzed: 04/11/13 15:46 Lab File ID: 1CD11014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/12/13 09:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: 680-88980-A-21-C MSD Client Sample ID: _____Date Analyzed: 04/11/13 16:05 Lab File ID: 1CD11015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 09:58
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/12/13 09:58

Lab Sample ID: 680-89038-1 Client Sample ID: CV0496A-CS-SPDate Analyzed: 04/11/13 17:36 Lab File ID: 1CD11020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/12/13 10:06
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:06
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 10:07
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/12/13 10:06
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:06

Lab Sample ID: 680-89038-2 Client Sample ID: CV0496B-CS-SPDate Analyzed: 04/11/13 17:54 Lab File ID: 1CD11021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/12/13 10:09
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/12/13 10:09
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:10

Lab Sample ID: 680-89038-3 Client Sample ID: CV0497A-CS-SPDate Analyzed: 04/11/13 18:13 Lab File ID: 1CD11022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 10:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: 680-89038-4 Client Sample ID: CV0497B-CS-SPDate Analyzed: 04/11/13 18:31 Lab File ID: 1CD11023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Baseline Event	cantins	04/12/13 10:13

Lab Sample ID: 680-89038-5 Client Sample ID: CV1311A-CS-SPDate Analyzed: 04/11/13 18:49 Lab File ID: 1CD11024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Baseline Event	cantins	04/12/13 10:14

Lab Sample ID: 680-89038-7 Client Sample ID: CV0052A-CSDate Analyzed: 04/11/13 19:08 Lab File ID: 1CD11025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/12/13 10:15

Lab Sample ID: 680-89038-8 Client Sample ID: CV0052B-CSDate Analyzed: 04/11/13 19:26 Lab File ID: 1CD11026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/12/13 10:16
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:16

Lab Sample ID: 680-89038-9 Client Sample ID: CV0053A-CSDate Analyzed: 04/11/13 19:44 Lab File ID: 1CD11027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.93	Baseline Event	cantins	04/12/13 10:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: 680-89038-10 Client Sample ID: CV0053A-CSDDate Analyzed: 04/11/13 20:03 Lab File ID: 1CD11028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/12/13 10:19
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:19
Indeno[1,2,3-cd]pyrene	9.93	Baseline Event	cantins	04/12/13 10:19

Lab Sample ID: 680-89038-11 Client Sample ID: CV0053B-CSDate Analyzed: 04/11/13 20:21 Lab File ID: 1CD11029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/12/13 10:21
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:21
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/12/13 10:22
Dibenz(a,h)anthracene	9.95	Baseline Event	cantins	04/12/13 10:21
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:21

Lab Sample ID: 680-89038-12 Client Sample ID: CV0053C-CSDate Analyzed: 04/11/13 20:39 Lab File ID: 1CD11030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.46	Split Peak	cantins	04/12/13 10:23
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/12/13 10:23
Indeno[1,2,3-cd]pyrene	9.93	Baseline Event	cantins	04/12/13 10:24
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/12/13 10:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: 680-89038-13 Client Sample ID: CV0053D-CSDate Analyzed: 04/11/13 20:58 Lab File ID: 1CD11031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/12/13 10:24
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/12/13 10:24
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:25

Lab Sample ID: 680-89038-14 Client Sample ID: CV0789A-CSDate Analyzed: 04/11/13 21:16 Lab File ID: 1CD11032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 10:27
Dibenz(a,h)anthracene	9.93	Baseline Event	cantins	04/12/13 10:27
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:27

Lab Sample ID: 680-89038-15 Client Sample ID: CV0789B-CSDate Analyzed: 04/11/13 21:34 Lab File ID: 1CD11033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/12/13 10:28

Lab Sample ID: 680-89038-16 Client Sample ID: CV0818A-CSDate Analyzed: 04/11/13 21:53 Lab File ID: 1CD11034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 10:29
Dibenz(a,h)anthracene	9.93	Baseline Event	cantins	04/12/13 10:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136414Lab Sample ID: CCVIS 660-136414/3 Client Sample ID: _____Date Analyzed: 04/12/13 11:42 Lab File ID: 1CD12003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 11:58

Lab Sample ID: 680-89038-6 Client Sample ID: CV1311B-CS-SPDate Analyzed: 04/12/13 12:20 Lab File ID: 1CD12005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/12/13 14:26

Lab Sample ID: 680-89038-6 MS Client Sample ID: CV1311B-CS-SP MSDate Analyzed: 04/12/13 12:38 Lab File ID: 1CD12006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.92	Split Peak	cantins	04/12/13 14:27

Lab Sample ID: 680-89038-6 MSD Client Sample ID: CV1311B-CS-SP MSDDate Analyzed: 04/12/13 12:57 Lab File ID: 1CD12007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/12/13 14:27

Lab Sample ID: 680-89038-17 Client Sample ID: CV0818B-CSDate Analyzed: 04/12/13 13:15 Lab File ID: 1CD12008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	8.73	Baseline Event	cantins	04/15/13 10:32
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/15/13 10:32

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Analysis Batch Number: 136414Lab Sample ID: 680-89038-18 Client Sample ID: CV0741A-CS-SPDate Analyzed: 04/12/13 13:34 Lab File ID: 1CD12009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/15/13 10:35

Lab Sample ID: 680-89038-20 Client Sample ID: CV0741C-GS-SPDate Analyzed: 04/12/13 14:10 Lab File ID: 1CD12011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.65	Baseline Event	cantins	04/15/13 10:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab Sample ID: IC 660-136164/15 Client Sample ID: _____Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:28
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/16 Client Sample ID: _____Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:29
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/17 Client Sample ID: _____Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/13 12:29

Lab Sample ID: IC 660-136164/18 Client Sample ID: _____Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICIS 660-136164/19 Client Sample ID: _____Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/20 Client Sample ID: _____

Date Analyzed: 04/04/13 15:42 Lab File ID: 1DD04012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.77	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: IC 660-136164/21 Client Sample ID: _____

Date Analyzed: 04/04/13 16:04 Lab File ID: 1DD04013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.79	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICV 660-136164/22 Client Sample ID: _____

Date Analyzed: 04/04/13 16:27 Lab File ID: 1DD04014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.23	Baseline Event	cantins	04/05/13 13:08
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 13:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMD5973 Analysis Batch Number: 136371

Lab Sample ID: CCVIS 660-136371/4 Client Sample ID: _____

Date Analyzed: 04/11/13 11:20 Lab File ID: 1DD11004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/11/13 11:41

Lab Sample ID: LCS 660-136277/2-A Client Sample ID: _____

Date Analyzed: 04/11/13 19:46 Lab File ID: 1DD11024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/12/13 11:32

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.: 680-89038-1

SDG No.: _____

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0496A-CS-SP	680-89038-1	60
CV0496B-CS-SP	680-89038-2	61
CV0497A-CS-SP	680-89038-3	53
CV0497B-CS-SP	680-89038-4	50
CV1311A-CS-SP	680-89038-5	81
CV1311B-CS-SP	680-89038-6	76
CV0052A-CS	680-89038-7	58
CV0052B-CS	680-89038-8	100
CV0053A-CS	680-89038-9	59
CV0053A-CSD	680-89038-10	98
CV0053B-CS	680-89038-11	70
CV0053C-CS	680-89038-12	82
CV0053D-CS	680-89038-13	91
CV0789A-CS	680-89038-14	53
CV0789B-CS	680-89038-15	67
CV0818A-CS	680-89038-16	69
CV0818B-CS	680-89038-17	108
CV0741A-CS-SP	680-89038-18	77
CV0741B-CS-SP	680-89038-19	76
CV0741C-GS-SP	680-89038-20	76
	MB 660-136266/1-A	69
	MB 660-136277/1-A	64
	LCS 660-136266/2-A	61
	LCS 660-136277/2-A	87
	680-88980-A-21-B MS	41
CV1311B-CS-SP MS	680-89038-6 MS	63
	680-88980-A-21-C MSD	59
CV1311B-CS-SP MSD	680-89038-6 MSD	60

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.: 680-89038-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 1CD11012.D

Lab ID: LCS 660-136266/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	649	362	56	39-130	
Acenaphthylene	649	425	66	38-130	
Anthracene	649	401	62	37-130	
Benzo[a]anthracene	649	375	58	40-130	
Benzo[a]pyrene	649	321	49	49-130	
Benzo[b]fluoranthene	649	499	77	37-130	
Benzo[g,h,i]perylene	649	380	59	32-130	
Benzo[k]fluoranthene	649	394	61	32-130	
Chrysene	649	359	55	41-130	
Dibenz(a,h)anthracene	649	403	62	27-130	
Fluoranthene	649	453	70	40-130	
Fluorene	649	396	61	40-130	
Indeno[1,2,3-cd]pyrene	649	356	55	30-130	
1-Methylnaphthalene	649	338	52	31-130	
2-Methylnaphthalene	649	365	56	33-130	
Naphthalene	649	384	59	36-130	
Phenanthrene	649	366	56	42-130	
Pyrene	649	398	61	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 1DD11024.D

Lab ID: LCS 660-136277/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	524	79	39-130	
Acenaphthylene	667	545	82	38-130	
Anthracene	667	557	84	37-130	
Benzo[a]anthracene	667	588	88	40-130	
Benzo[a]pyrene	667	531	80	49-130	
Benzo[b]fluoranthene	667	594	89	37-130	
Benzo[g,h,i]perylene	667	583	88	32-130	
Benzo[k]fluoranthene	667	599	90	32-130	
Chrysene	667	571	86	41-130	
Dibenz(a,h)anthracene	667	621	93	27-130	
Fluoranthene	667	600	90	40-130	
Fluorene	667	579	87	40-130	
Indeno[1,2,3-cd]pyrene	667	595	89	30-130	
1-Methylnaphthalene	667	565	85	31-130	
2-Methylnaphthalene	667	556	83	33-130	
Naphthalene	667	533	80	36-130	
Phenanthrene	667	543	81	42-130	
Pyrene	667	552	83	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 1CD11014.D
 Lab ID: 680-88980-A-21-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	908	140 U	316	35	39-130	F
Acenaphthylene	908	9.3 J	370	40	38-130	
Anthracene	908	16	372	39	37-130	
Benzo[a]anthracene	908	40	366	36	40-130	F
Benzo[a]pyrene	908	14	308	32	49-130	F
Benzo[b]fluoranthene	908	69	390	35	37-130	F
Benzo[g,h,i]perylene	908	40	335	33	32-130	
Benzo[k]fluoranthene	908	19	338	35	32-130	
Chrysene	908	33	365	37	41-130	F
Dibenz(a,h)anthracene	908	27 U	372	41	27-130	
Fluoranthene	908	37	400	40	40-130	
Fluorene	908	27 U	338	37	40-130	F
Indeno[1,2,3-cd]pyrene	908	27 U	362	40	30-130	
1-Methylnaphthalene	908	37 J	328	32	31-130	
2-Methylnaphthalene	908	82	377	33	33-130	
Naphthalene	908	64	320	28	36-130	F
Phenanthrene	908	55	362	34	42-130	F
Pyrene	908	51	385	37	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 1CD12006.D
 Lab ID: 680-89038-6 MS Client ID: CV1311B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1090	170 U	702	65	39-130	
Acenaphthylene	1090	66 U	720	66	38-130	
Anthracene	1090	10 J	785	71	37-130	
Benzo[a]anthracene	1090	45	817	71	40-130	
Benzo[a]pyrene	1090	37	696	61	49-130	
Benzo[b]fluoranthene	1090	65	949	81	37-130	
Benzo[g,h,i]perylene	1090	41	658	57	32-130	
Benzo[k]fluoranthene	1090	27	726	64	32-130	
Chrysene	1090	51	818	70	41-130	
Dibenz(a,h)anthracene	1090	33 U	722	66	27-130	
Fluoranthene	1090	74	912	77	40-130	
Fluorene	1090	16 J	755	68	40-130	
Indeno[1,2,3-cd]pyrene	1090	110	681	53	30-130	
1-Methylnaphthalene	1090	32 J	832	74	31-130	
2-Methylnaphthalene	1090	72	822	69	33-130	
Naphthalene	1090	46 J	729	63	36-130	
Phenanthrene	1090	55	849	73	42-130	
Pyrene	1090	54	808	69	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.: 680-89038-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 1CD11015.D
 Lab ID: 680-88980-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	908	545	60	53	40	39-130	F
Acenaphthylene	908	581	63	45	40	38-130	F
Anthracene	908	568	61	42	40	37-130	F
Benzo[a]anthracene	908	531	54	37	40	40-130	
Benzo[a]pyrene	908	523	56	52	40	49-130	F
Benzo[b]fluoranthene	908	610	60	44	40	37-130	F
Benzo[g,h,i]perylene	908	515	52	42	40	32-130	F
Benzo[k]fluoranthene	908	518	55	42	40	32-130	F
Chrysene	908	568	59	43	40	41-130	F
Dibenz(a,h)anthracene	908	544	60	37	40	27-130	
Fluoranthene	908	582	60	37	40	40-130	
Fluorene	908	596	66	55	40	40-130	F
Indeno[1,2,3-cd]pyrene	908	537	59	39	40	30-130	
1-Methylnaphthalene	908	555	57	52	40	31-130	F
2-Methylnaphthalene	908	564	53	40	40	33-130	
Naphthalene	908	556	54	54	40	36-130	F
Phenanthrene	908	578	58	46	40	42-130	F
Pyrene	908	612	62	46	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: 1CD12007.D
 Lab ID: 680-89038-6 MSD Client ID: CV1311B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1090	589	54	18	40	39-130	
Acenaphthylene	1090	659	60	9	40	38-130	
Anthracene	1090	728	66	7	40	37-130	
Benzo[a]anthracene	1090	846	73	4	40	40-130	
Benzo[a]pyrene	1090	693	60	0	40	49-130	
Benzo[b]fluoranthene	1090	848	72	11	40	37-130	
Benzo[g,h,i]perylene	1090	709	61	7	40	32-130	
Benzo[k]fluoranthene	1090	754	67	4	40	32-130	
Chrysene	1090	763	65	7	40	41-130	
Dibenz(a,h)anthracene	1090	706	65	2	40	27-130	
Fluoranthene	1090	866	73	5	40	40-130	
Fluorene	1090	710	64	6	40	40-130	
Indeno[1,2,3-cd]pyrene	1090	666	51	2	40	30-130	
1-Methylnaphthalene	1090	651	57	24	40	31-130	
2-Methylnaphthalene	1090	781	65	5	40	33-130	
Naphthalene	1090	661	56	10	40	36-130	
Phenanthrene	1090	827	71	3	40	42-130	
Pyrene	1090	801	68	1	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.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1CD11011.D Lab Sample ID: MB 660-136266/1-A
 Matrix: Solid Date Extracted: 04/09/2013 13:55
 Instrument ID: BSMC5973 Date Analyzed: 04/11/2013 14:51
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136266/2-A	1CD11012.D	04/11/2013 15:10
	680-88980-A-21-B MS	1CD11014.D	04/11/2013 15:46
	680-88980-A-21-C MSD	1CD11015.D	04/11/2013 16:05
CV0496A-CS-SP	680-89038-1	1CD11020.D	04/11/2013 17:36
CV0496B-CS-SP	680-89038-2	1CD11021.D	04/11/2013 17:54
CV0497A-CS-SP	680-89038-3	1CD11022.D	04/11/2013 18:13
CV0497B-CS-SP	680-89038-4	1CD11023.D	04/11/2013 18:31
CV1311A-CS-SP	680-89038-5	1CD11024.D	04/11/2013 18:49
CV0052A-CS	680-89038-7	1CD11025.D	04/11/2013 19:08
CV0052B-CS	680-89038-8	1CD11026.D	04/11/2013 19:26
CV0053A-CS	680-89038-9	1CD11027.D	04/11/2013 19:44
CV0053A-CSD	680-89038-10	1CD11028.D	04/11/2013 20:03
CV0053B-CS	680-89038-11	1CD11029.D	04/11/2013 20:21
CV0053C-CS	680-89038-12	1CD11030.D	04/11/2013 20:39
CV0053D-CS	680-89038-13	1CD11031.D	04/11/2013 20:58
CV0789A-CS	680-89038-14	1CD11032.D	04/11/2013 21:16
CV0789B-CS	680-89038-15	1CD11033.D	04/11/2013 21:34
CV0818A-CS	680-89038-16	1CD11034.D	04/11/2013 21:53

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1DD11023.D Lab Sample ID: MB 660-136277/1-A
 Matrix: Solid Date Extracted: 04/09/2013 16:11
 Instrument ID: BSMD5973 Date Analyzed: 04/11/2013 19:23
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136277/2-A	1DD11024.D	04/11/2013 19:46
CV1311B-CS-SP	680-89038-6	1CD12005.D	04/12/2013 12:20
CV1311B-CS-SP MS	680-89038-6 MS	1CD12006.D	04/12/2013 12:38
CV1311B-CS-SP MSD	680-89038-6 MSD	1CD12007.D	04/12/2013 12:57
CV0818B-CS	680-89038-17	1CD12008.D	04/12/2013 13:15
CV0741A-CS-SP	680-89038-18	1CD12009.D	04/12/2013 13:34
CV0741B-CS-SP	680-89038-19	1CD12010.D	04/12/2013 13:52
CV0741C-GS-SP	680-89038-20	1CD12011.D	04/12/2013 14:10

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:38
 Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	48.8
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	45.9
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	5.8
275	10.0 - 60.0 % of mass 198	20.8
365	Greater than 1.0 % of mass 198	5.1
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	76.7
443	15.0 - 24.0 % of mass 442	16.1 (20.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25
	MB 660-136266/1-A	1CD11011.D	04/11/2013	14:51
	LCS 660-136266/2-A	1CD11012.D	04/11/2013	15:10
	680-88980-A-21-B MS	1CD11014.D	04/11/2013	15:46
	680-88980-A-21-C MSD	1CD11015.D	04/11/2013	16:05
CV0496A-CS-SP	680-89038-1	1CD11020.D	04/11/2013	17:36
CV0496B-CS-SP	680-89038-2	1CD11021.D	04/11/2013	17:54
CV0497A-CS-SP	680-89038-3	1CD11022.D	04/11/2013	18:13
CV0497B-CS-SP	680-89038-4	1CD11023.D	04/11/2013	18:31
CV1311A-CS-SP	680-89038-5	1CD11024.D	04/11/2013	18:49
CV0052A-CS	680-89038-7	1CD11025.D	04/11/2013	19:08
CV0052B-CS	680-89038-8	1CD11026.D	04/11/2013	19:26
CV0053A-CS	680-89038-9	1CD11027.D	04/11/2013	19:44
CV0053A-CSD	680-89038-10	1CD11028.D	04/11/2013	20:03
CV0053B-CS	680-89038-11	1CD11029.D	04/11/2013	20:21

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:38
 Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	48.8
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	45.9
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	5.8
275	10.0 - 60.0 % of mass 198	20.8
365	Greater than 1.0 % of mass 198	5.1
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	76.7
443	15.0 - 24.0 % of mass 442	16.1 (20.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CV0053C-CS	680-89038-12	1CD11030.D	04/11/2013	20:39
CV0053D-CS	680-89038-13	1CD11031.D	04/11/2013	20:58
CV0789A-CS	680-89038-14	1CD11032.D	04/11/2013	21:16
CV0789B-CS	680-89038-15	1CD11033.D	04/11/2013	21:34
CV0818A-CS	680-89038-16	1CD11034.D	04/11/2013	21:53

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1CD12002.D DFTPP Injection Date: 04/12/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:24
 Analysis Batch No.: 136414

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	48.9
68	Less than 2.0 % of mass 69	0.2 (0.5)1
69	Mass 69 relative abundance	52.6
70	Less than 2.0 % of mass 69	0.7 (1.3)1
127	10.0 - 80.0 % of mass 198	49.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.2
275	10.0 - 60.0 % of mass 198	20.7
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	11.2
442	Greater than 50.0 % of mass 198	73.4
443	15.0 - 24.0 % of mass 442	15.3 (20.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136414/3	1CD12003.D	04/12/2013	11:42
CV1311B-CS-SP	680-89038-6	1CD12005.D	04/12/2013	12:20
CV1311B-CS-SP MS	680-89038-6 MS	1CD12006.D	04/12/2013	12:38
CV1311B-CS-SP MSD	680-89038-6 MSD	1CD12007.D	04/12/2013	12:57
CV0818B-CS	680-89038-17	1CD12008.D	04/12/2013	13:15
CV0741A-CS-SP	680-89038-18	1CD12009.D	04/12/2013	13:34
CV0741B-CS-SP	680-89038-19	1CD12010.D	04/12/2013	13:52
CV0741C-GS-SP	680-89038-20	1CD12011.D	04/12/2013	14:10

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 12:15
 Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	44.9
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	45.4
70	Less than 2.0 % of mass 69	0.2 (0.3) 1
127	10.0 - 80.0 % of mass 198	50.5
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	26.7
365	Greater than 1.0 % of mass 198	3.1
441	Present but less than mass 443	3.3
442	Greater than 50.0 % of mass 198	67.1
443	15.0 - 24.0 % of mass 442	13.9 (20.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab File ID: 1DD11003.D DFTPP Injection Date: 04/11/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:00
 Analysis Batch No.: 136371

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	48.1
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	51.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.0
275	10.0 - 60.0 % of mass 198	26.6
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	2.3
442	Greater than 50.0 % of mass 198	66.7
443	15.0 - 24.0 % of mass 442	13.3 (19.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136371/4	1DD11004.D	04/11/2013	11:20
	MB 660-136277/1-A	1DD11023.D	04/11/2013	19:23
	LCS 660-136277/2-A	1DD11024.D	04/11/2013	19:46

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

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	245713	3.68	179699	4.76	320372	5.70	
UPPER LIMIT	491426	4.18	359398	5.26	640744	6.20	
LOWER LIMIT	122857	3.18	89850	4.26	160186	5.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136370/10		273342	3.67	204687	4.76	380421	5.70
MB 660-136266/1-A		243800	3.67	163859	4.76	301960	5.71
LCS 660-136266/2-A		252075	3.67	174312	4.76	321724	5.70
680-88980-A-21-B MS		296640	3.67	207963	4.76	389509	5.70
680-88980-A-21-C MSD		302058	3.67	211723	4.76	391230	5.70
680-89038-1	CV0496A-CS-SP	295825	3.67	216655	4.76	397365	5.70
680-89038-2	CV0496B-CS-SP	275708	3.68	196602	4.76	356534	5.70
680-89038-3	CV0497A-CS-SP	313869	3.67	222218	4.76	386118	5.70
680-89038-4	CV0497B-CS-SP	285540	3.67	217593	4.76	384800	5.70
680-89038-5	CV1311A-CS-SP	291490	3.67	207837	4.76	370545	5.70
680-89038-7	CV0052A-CS	293355	3.67	215453	4.76	394251	5.70
680-89038-8	CV0052B-CS	296160	3.67	206141	4.76	381433	5.70
680-89038-9	CV0053A-CS	311111	3.67	215608	4.76	382469	5.70
680-89038-10	CV0053A-CSD	317293	3.68	219776	4.76	372805	5.70
680-89038-11	CV0053B-CS	348130	3.67	241525	4.76	404067	5.70
680-89038-12	CV0053C-CS	322190	3.67	226595	4.76	384268	5.70
680-89038-13	CV0053D-CS	320055	3.67	228359	4.76	394022	5.70
680-89038-14	CV0789A-CS	345105	3.68	242666	4.76	438382	5.70
680-89038-15	CV0789B-CS	324893	3.67	216314	4.76	400711	5.70
680-89038-16	CV0818A-CS	317740	3.67	216648	4.76	391436	5.70

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.: 680-89038-1
 SDG No.: _____
 Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	410945	7.65	438804	8.80		
UPPER LIMIT	821890	8.15	877608	9.30		
LOWER LIMIT	205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136370/10			501991	7.64	491170	8.80
MB 660-136266/1-A			362954	7.65	389222	8.82
LCS 660-136266/2-A			412578	7.64	425428	8.80
680-88980-A-21-B MS			440062	7.64	439786	8.80
680-88980-A-21-C MSD			454290	7.64	432351	8.80
680-89038-1	CV0496A-CS-SP		460680	7.64	412220	8.80
680-89038-2	CV0496B-CS-SP		408107	7.64	380986	8.80
680-89038-3	CV0497A-CS-SP		422104	7.64	431345	8.80
680-89038-4	CV0497B-CS-SP		432770	7.64	418557	8.80
680-89038-5	CV1311A-CS-SP		401067	7.64	399669	8.80
680-89038-7	CV0052A-CS		440518	7.64	419887	8.80
680-89038-8	CV0052B-CS		403201	7.64	394411	8.80
680-89038-9	CV0053A-CS		510384	7.64	409026	8.80
680-89038-10	CV0053A-CSD		407549	7.64	385365	8.80
680-89038-11	CV0053B-CS		427684	7.64	420989	8.80
680-89038-12	CV0053C-CS		429810	7.64	404055	8.80
680-89038-13	CV0053D-CS		417168	7.64	386486	8.80
680-89038-14	CV0789A-CS		461331	7.64	447441	8.80
680-89038-15	CV0789B-CS		432051	7.64	424572	8.80
680-89038-16	CV0818A-CS		434802	7.64	422852	8.80

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.: 680-89038-1
 SDG No.: _____
 Sample No.: CCVIS 660-136414/3 Date Analyzed: 04/12/2013 11:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD12003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	213285	3.67	157125	4.76	284319	5.70		
UPPER LIMIT	426570	4.17	314250	5.26	568638	6.20		
LOWER LIMIT	106643	3.17	78563	4.26	142160	5.20		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-89038-6	CV1311B-CS-SP		224423	3.67	149168	4.76	293530	5.70
680-89038-6 MS	CV1311B-CS-SP MS		266003	3.67	187662	4.76	361468	5.70
680-89038-6 MSD	CV1311B-CS-SP MSD		285112	3.67	207753	4.76	373597	5.70
680-89038-17	CV0818B-CS		282367	3.67	195858	4.76	353917	5.70
680-89038-18	CV0741A-CS-SP		256181	3.67	182063	4.76	345009	5.70
680-89038-19	CV0741B-CS-SP		270551	3.67	187283	4.76	358038	5.70
680-89038-20	CV0741C-GS-SP		272272	3.67	197539	4.76	357057	5.70

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.: 680-89038-1
 SDG No.: _____
 Sample No.: CCVIS 660-136414/3 Date Analyzed: 04/12/2013 11:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD12003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	363427	7.64	403166	8.79		
UPPER LIMIT	726854	8.14	806332	9.29		
LOWER LIMIT	181714	7.14	201583	8.29		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-89038-6	CV1311B-CS-SP		373753	7.63	409738	8.79
680-89038-6 MS	CV1311B-CS-SP MS		477417	7.63	467979	8.79
680-89038-6 MSD	CV1311B-CS-SP MSD		448240	7.63	441892	8.79
680-89038-17	CV0818B-CS		435158	7.63	423985	8.79
680-89038-18	CV0741A-CS-SP		422395	7.63	416811	8.79
680-89038-19	CV0741B-CS-SP		433083	7.63	414988	8.79
680-89038-20	CV0741C-GS-SP		425869	7.63	445806	8.79

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.: 680-89038-1
 SDG No.: _____
 Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT	4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT	1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22	3619899	6.10	2333423	7.77	3845474	9.03

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.: 680-89038-1
 SDG No.: _____
 Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	2464730	11.34	2515643	13.17		
UPPER LIMIT	4929460	11.84	5031286	13.67		
LOWER LIMIT	1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136164/22	3963674	11.35	3958481	13.18		

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.: 680-89038-1
 SDG No.: _____
 Sample No.: CCVIS 660-136371/4 Date Analyzed: 04/11/2013 11:20
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD11004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2567445	6.08	1567812	7.75	2682457	9.02
UPPER LIMIT	5134890	6.58	3135624	8.25	5364914	9.52
LOWER LIMIT	1283723	5.58	783906	7.25	1341229	8.52
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136277/1-A	2894138	6.07	1819394	7.75	3081724	9.02
LCS 660-136277/2-A	2793385	6.07	1736069	7.76	2929348	9.01

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.: 680-89038-1
 SDG No.: _____
 Sample No.: CCVIS 660-136371/4 Date Analyzed: 04/11/2013 11:20
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD11004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	2805579	11.33	2830113	13.16		
UPPER LIMIT	5611158	11.83	5660226	13.66		
LOWER LIMIT	1402790	10.83	1415057	12.66		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136277/1-A	3147627	11.32	3207923	13.16		
LCS 660-136277/2-A	3052042	11.33	3048812	13.15		

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.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0496A-CS-SP Lab Sample ID: 680-89038-1
 Matrix: Solid Lab File ID: 1CD11020.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:40
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.27(g) Date Analyzed: 04/11/2013 17:36
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 28.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	12	J	55	6.8
120-12-7	Anthracene	33		11	5.7
56-55-3	Benzo[a]anthracene	91		11	5.3
50-32-8	Benzo[a]pyrene	85		14	7.1
205-99-2	Benzo[b]fluoranthene	160		17	8.3
191-24-2	Benzo[g,h,i]perylene	73		27	6.0
207-08-9	Benzo[k]fluoranthene	52		11	4.9
218-01-9	Chrysene	120		12	6.1
53-70-3	Dibenz(a,h)anthracene	71		27	5.6
206-44-0	Fluoranthene	100		27	5.5
86-73-7	Fluorene	18	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	120		27	9.7
90-12-0	1-Methylnaphthalene	92		55	6.0
91-57-6	2-Methylnaphthalene	150		55	9.7
91-20-3	Naphthalene	150		55	6.0
85-01-8	Phenanthrene	150		11	5.3
129-00-0	Pyrene	96		27	5.0

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\1C041113.b\1CD11020.D
 Lab Smp Id: 680-89038-A-1-A Client Smp ID: CV0496A-CS-SP
 Inj Date : 11-APR-2013 17:36
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-1-a
 Misc Info : 680-89038-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	27.981	% 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		3.674	3.675	(1.000)	295825	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	216655	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	397365	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	34728	5.96731	542.6190	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	460680	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	412220	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	13460	1.68321	153.0578	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	7112	1.60254	145.7217	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	5169	1.01196	92.0191	
5 Acenaphthylene	152		4.680	4.675	(0.983)	1211	0.13191	11.9948(Q)	
9 Fluorene	166		5.098	5.104	(1.070)	1384	0.19658	17.8749(Q)	
11 Phenanthrene	178		5.721	5.722	(1.003)	18780	1.61591	146.9375	
12 Anthracene	178		5.757	5.757	(1.009)	4218	0.36564	33.2483	
13 Carbazole	167		5.863	5.863	(1.028)	1988	0.18503	16.8254(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.557	6.557	(1.150)	14174	1.09956	99.9851
16 Pyrene	202	6.721	6.722	(0.880)	13853	1.05701	96.1157
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	12981	0.99646	90.6099
19 Chrysene	228	7.657	7.663	(1.002)	16489	1.27950	116.3473
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	17879	1.71722	156.1497(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.963)	6752	0.57311	52.1140(QMH)
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	10017	0.93075	84.6345
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.127)	6808	1.27614	116.0417(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.129)	3518	0.78030	70.9544(M)
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.165)	8051	0.79811	72.5736(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: 1CD11020.D

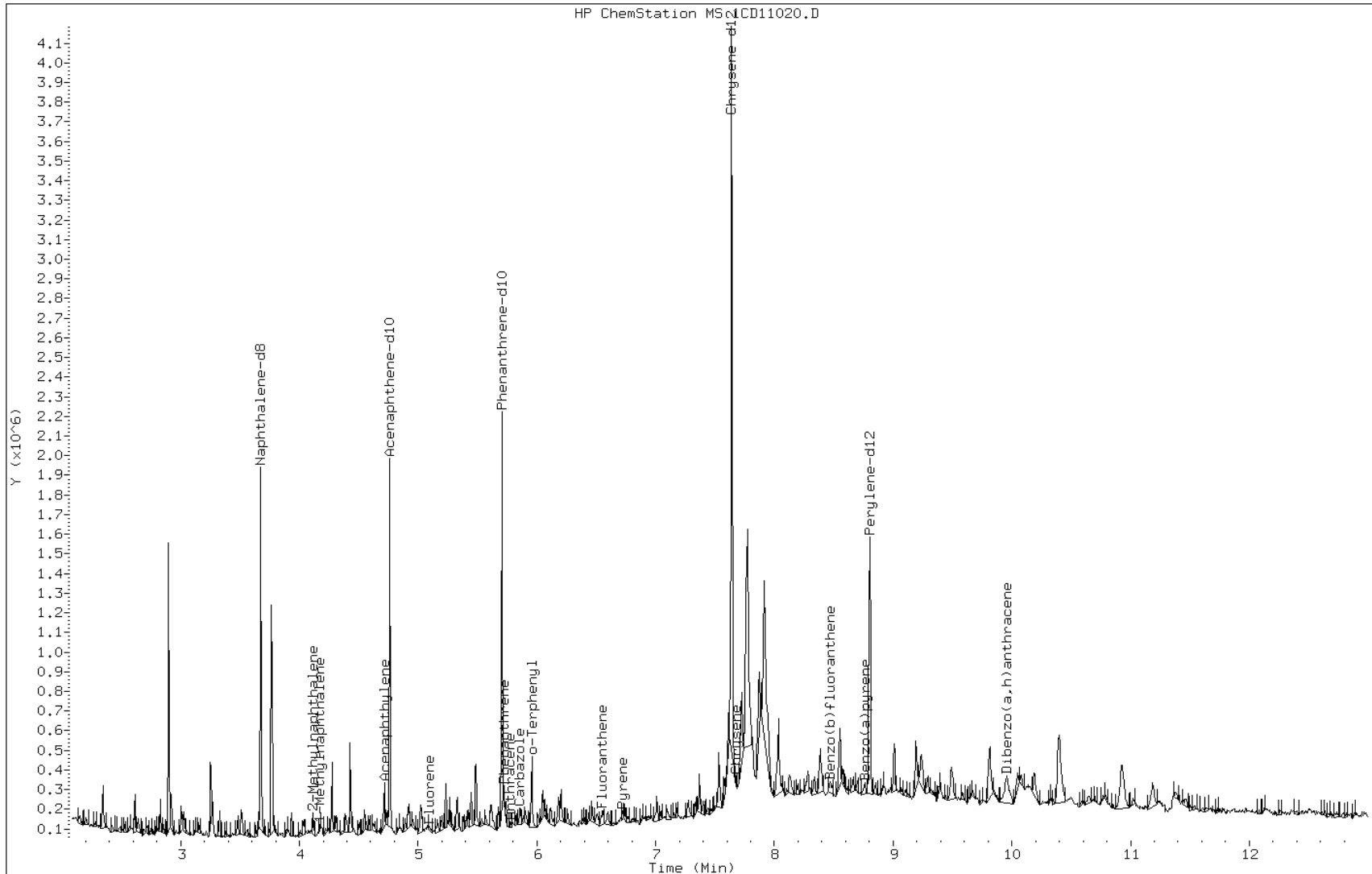
Date: 11-APR-2013 17:36

Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

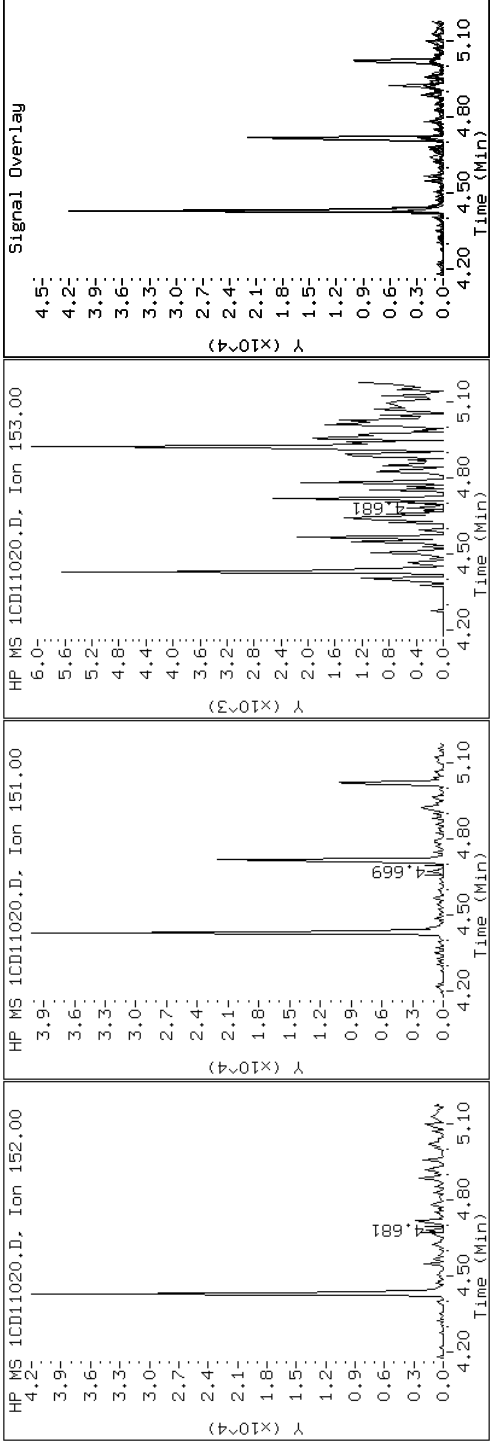
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

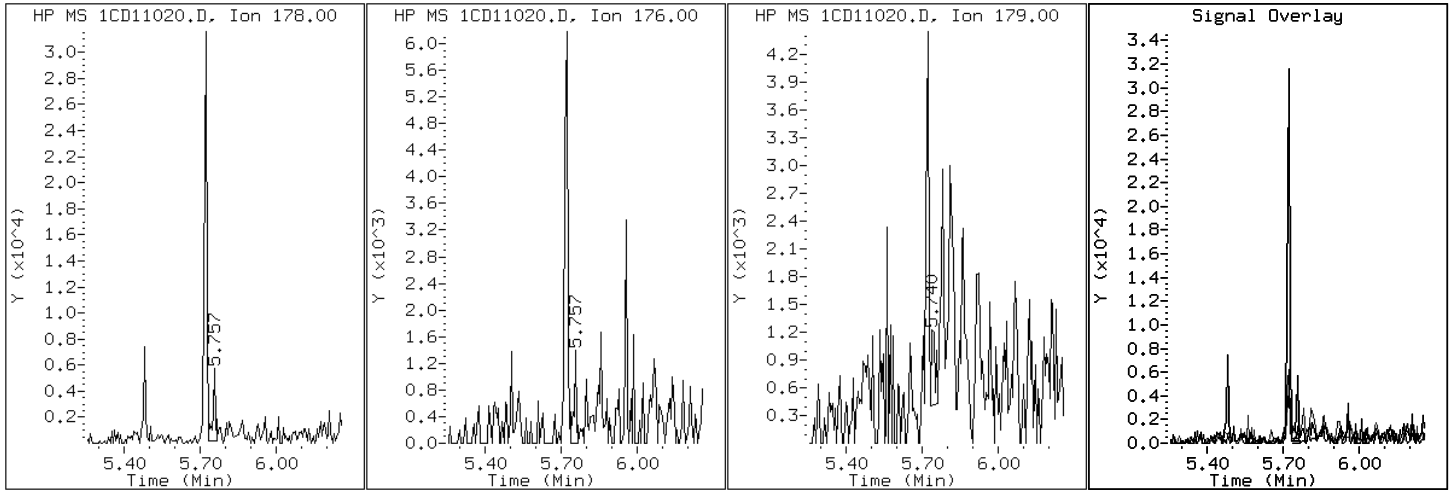
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

12 Anthracene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

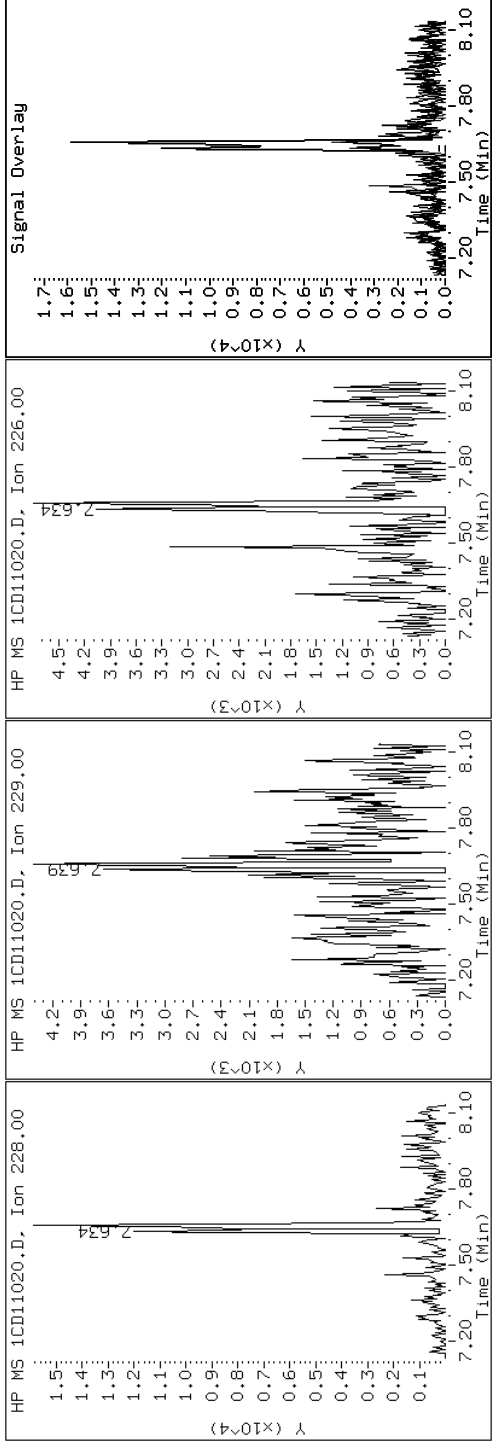
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

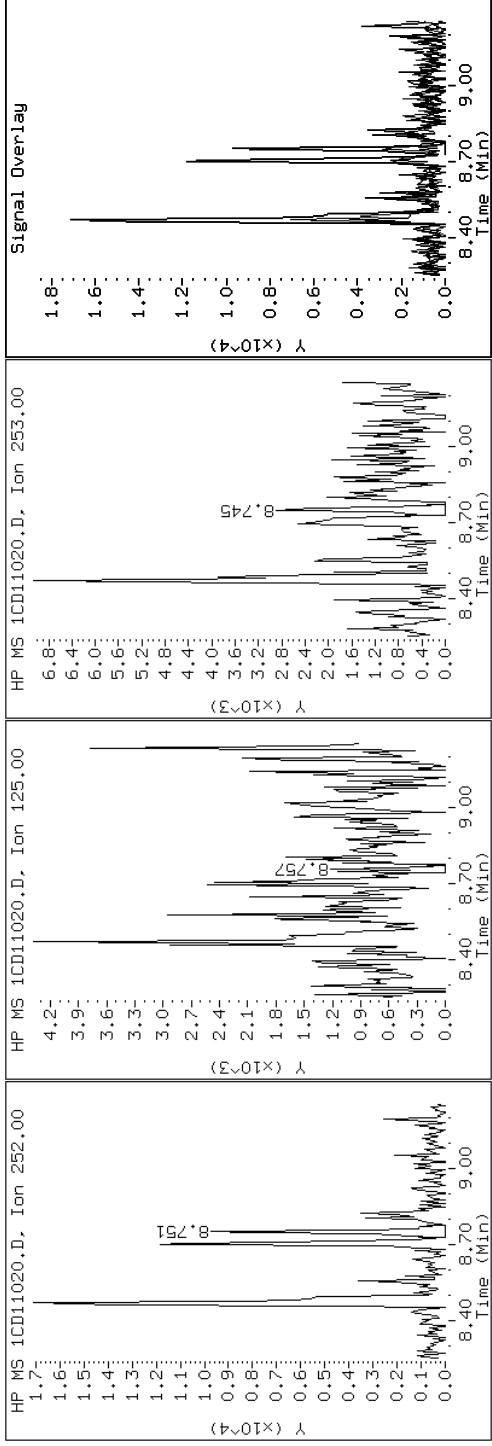
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

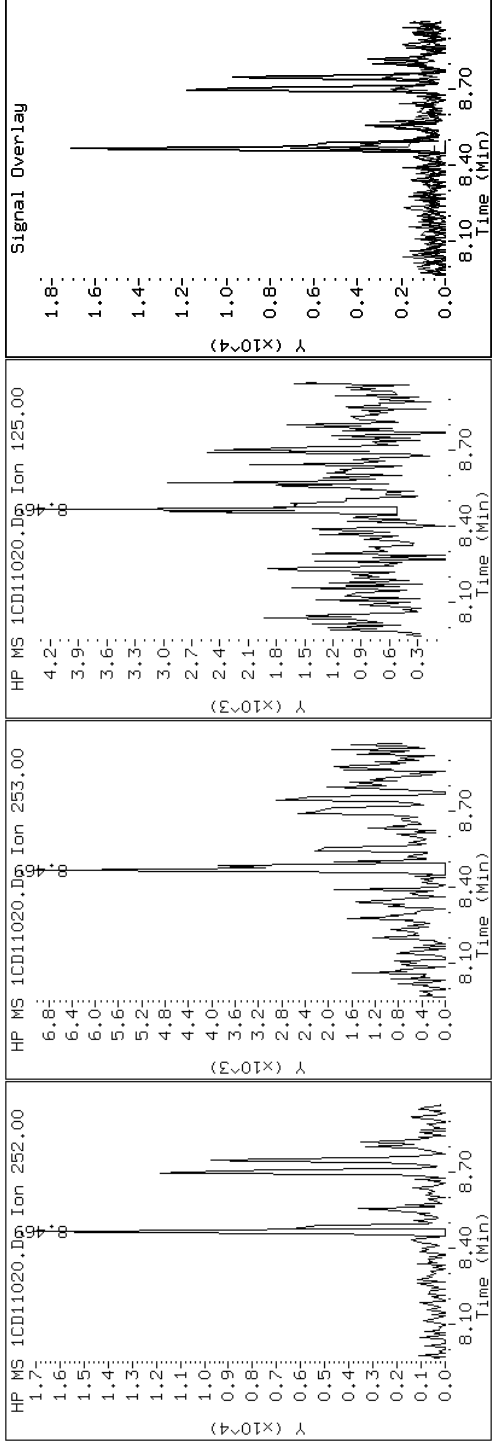
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

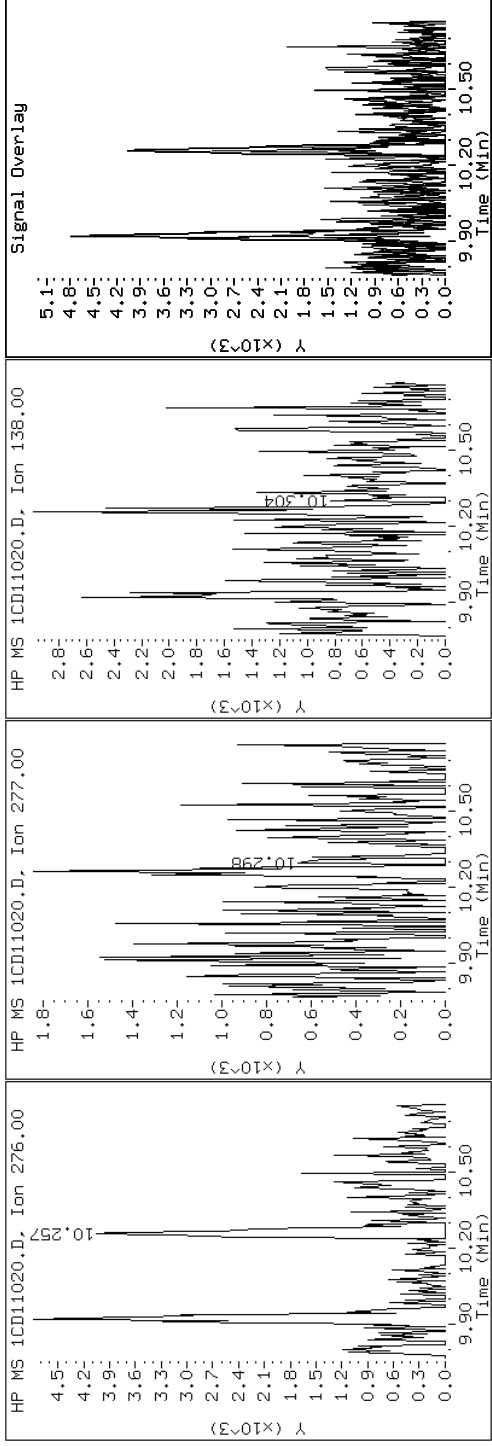
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

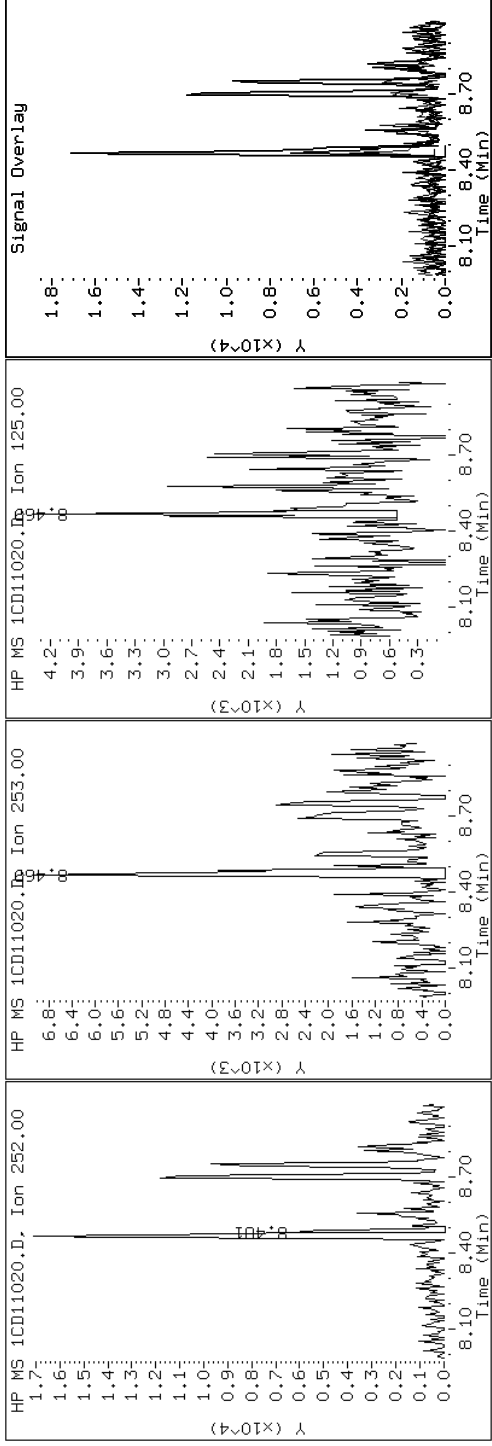
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

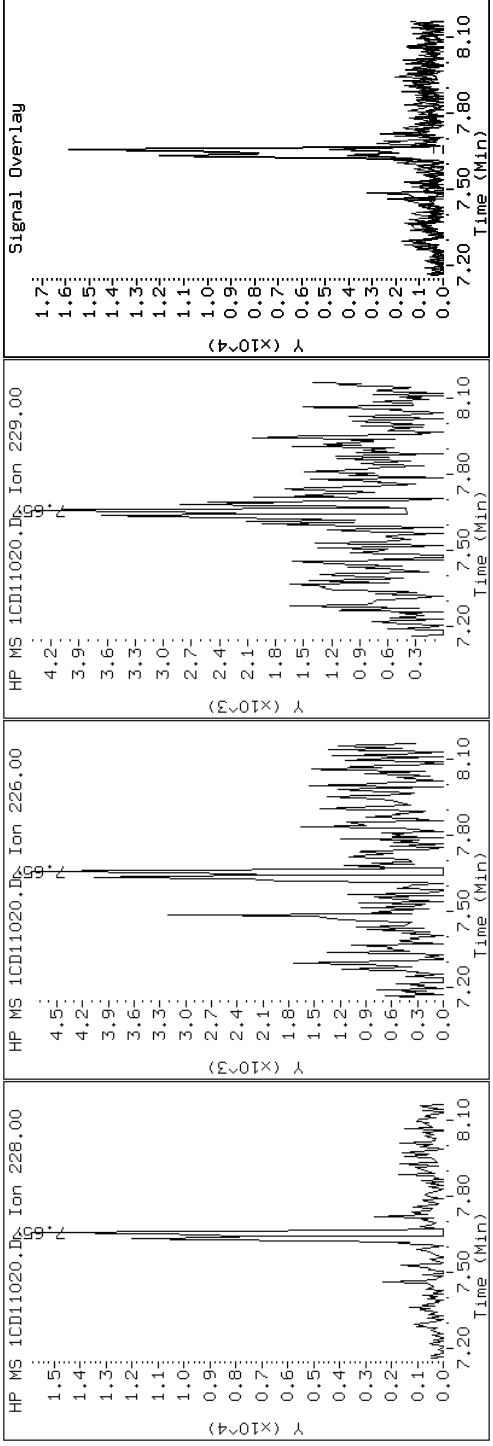
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

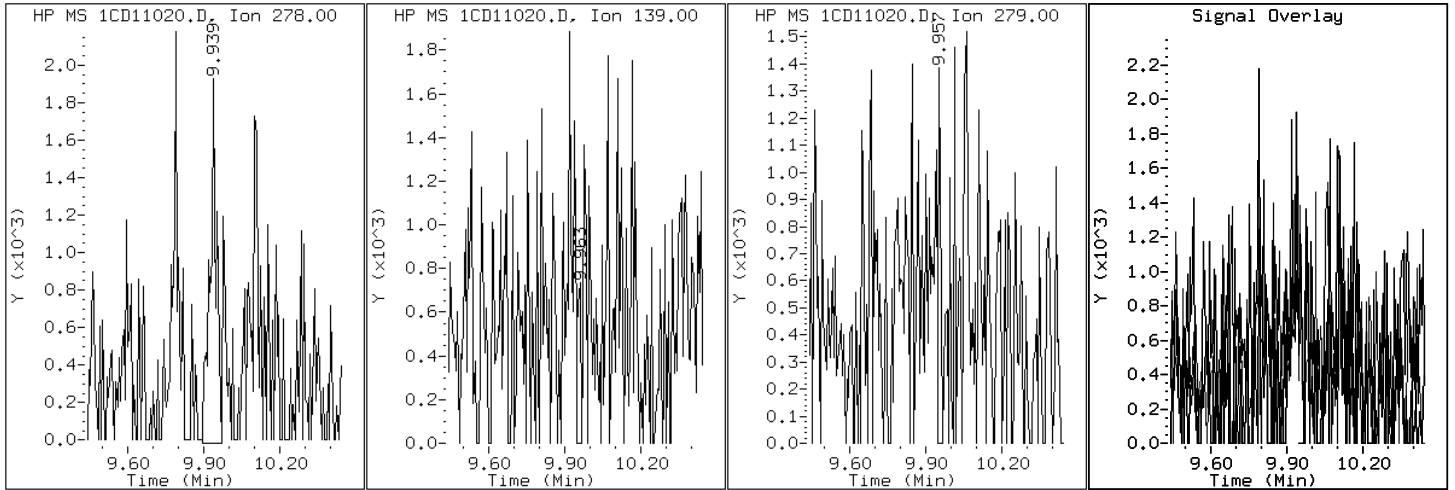
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

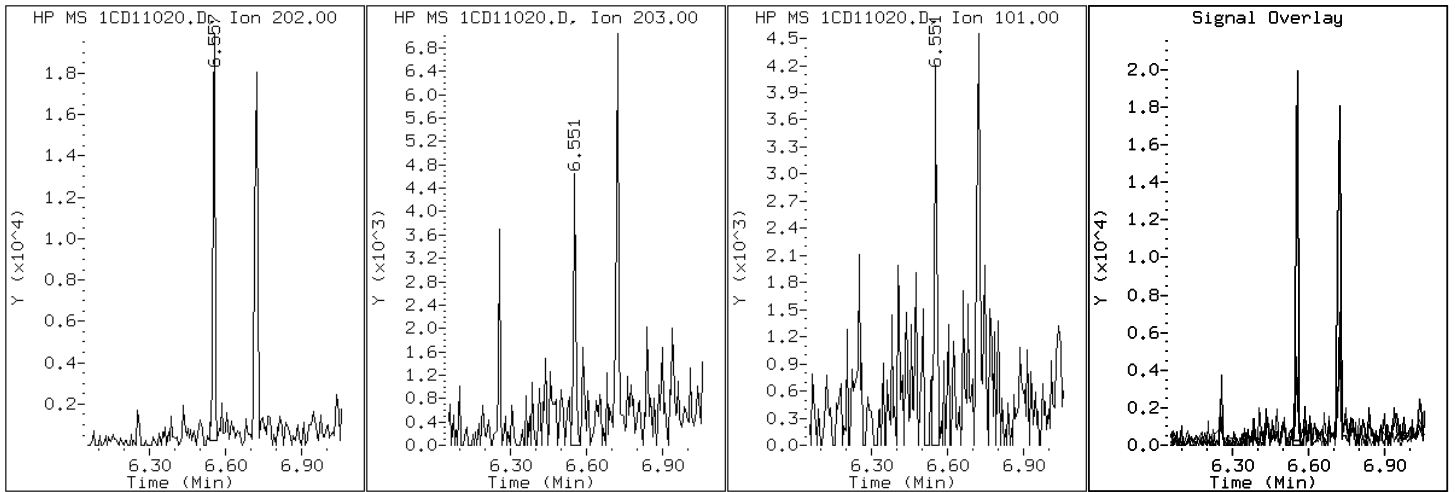
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

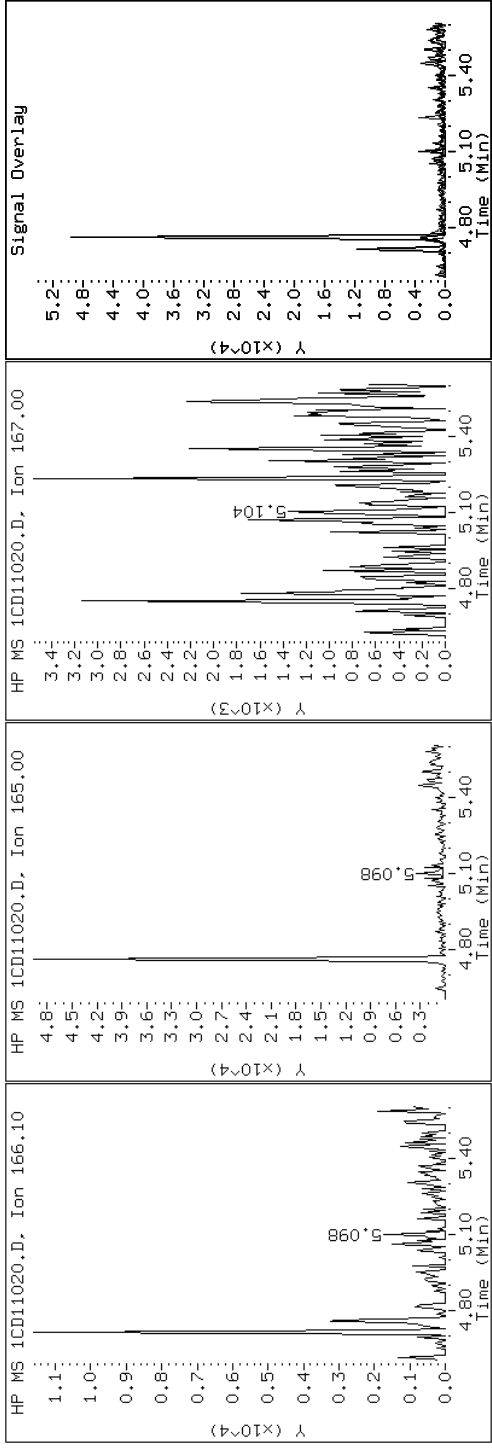
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

9 Fluorene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

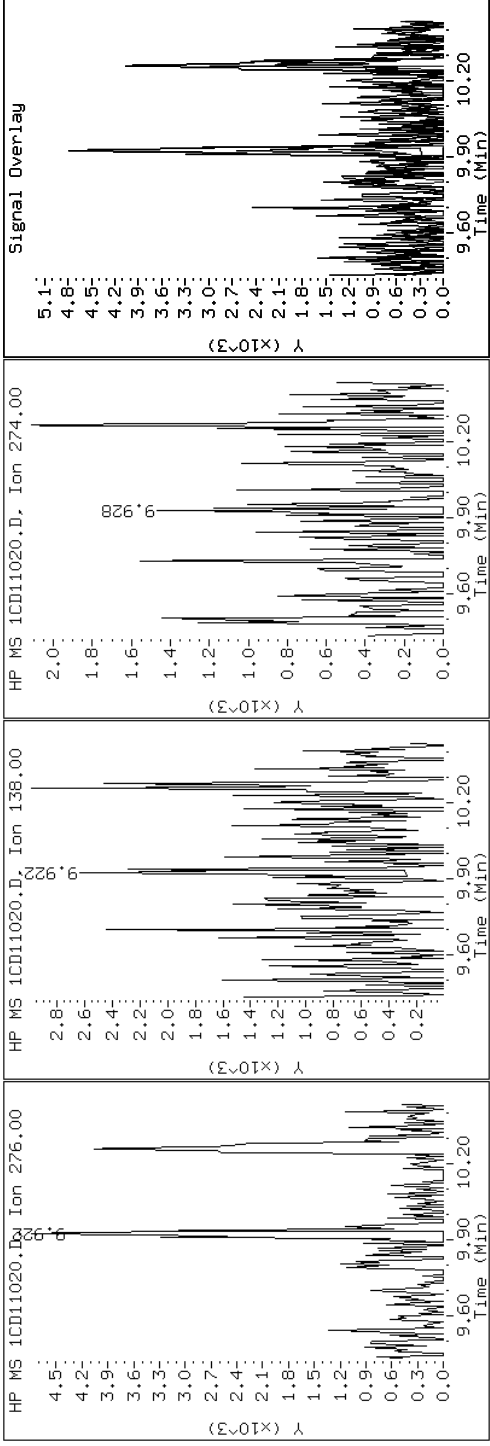
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

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



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

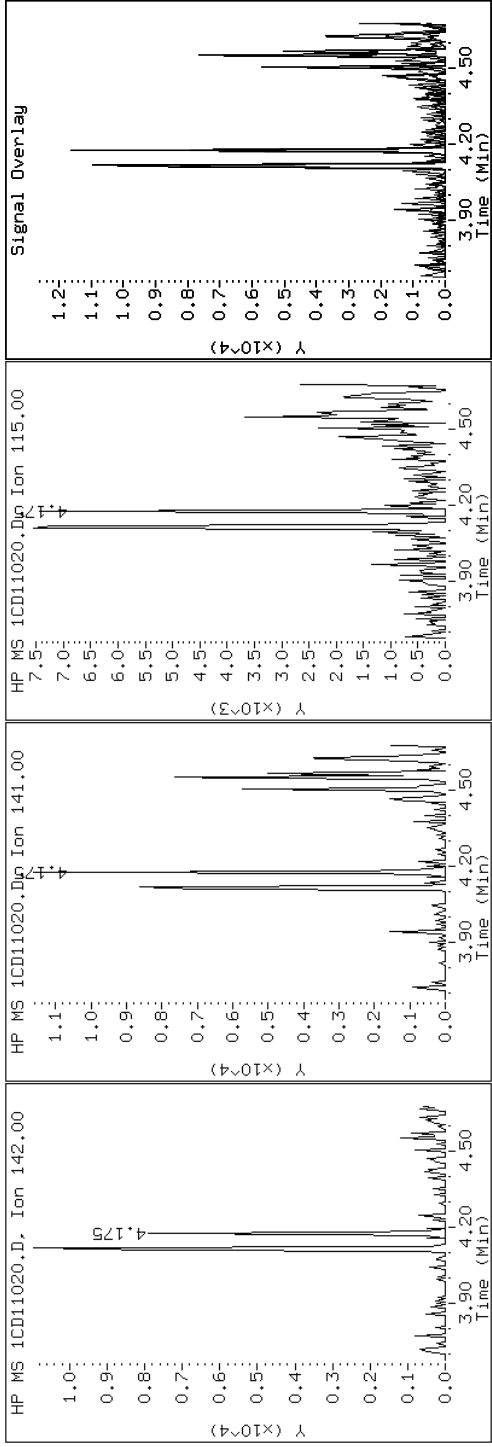
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

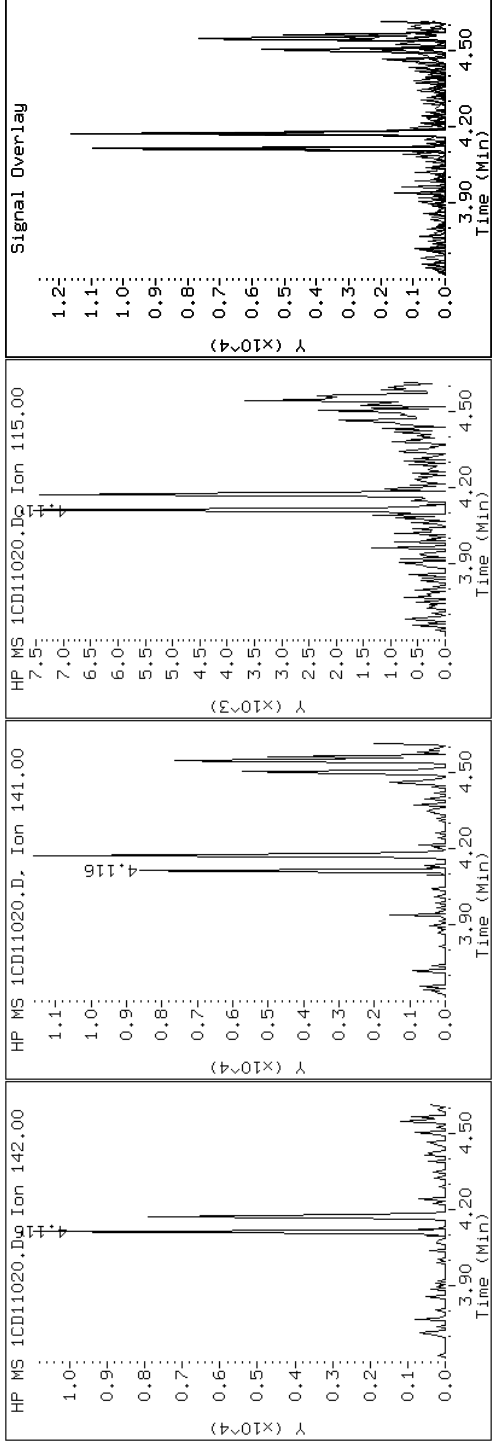
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

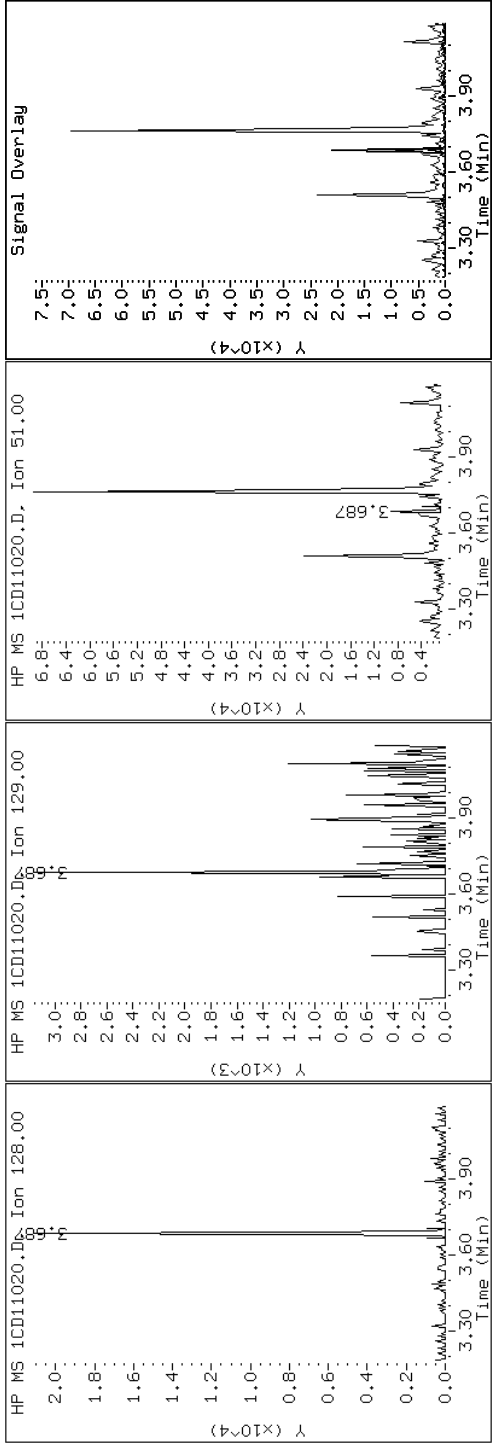
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

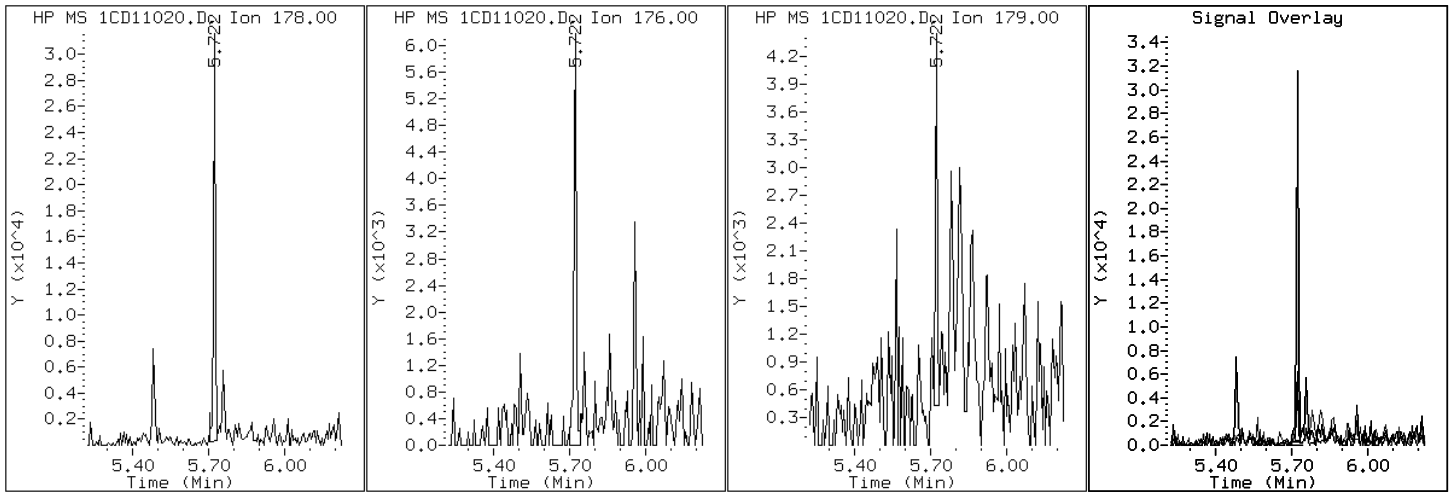
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11020.D

Date: 11-APR-2013 17:36

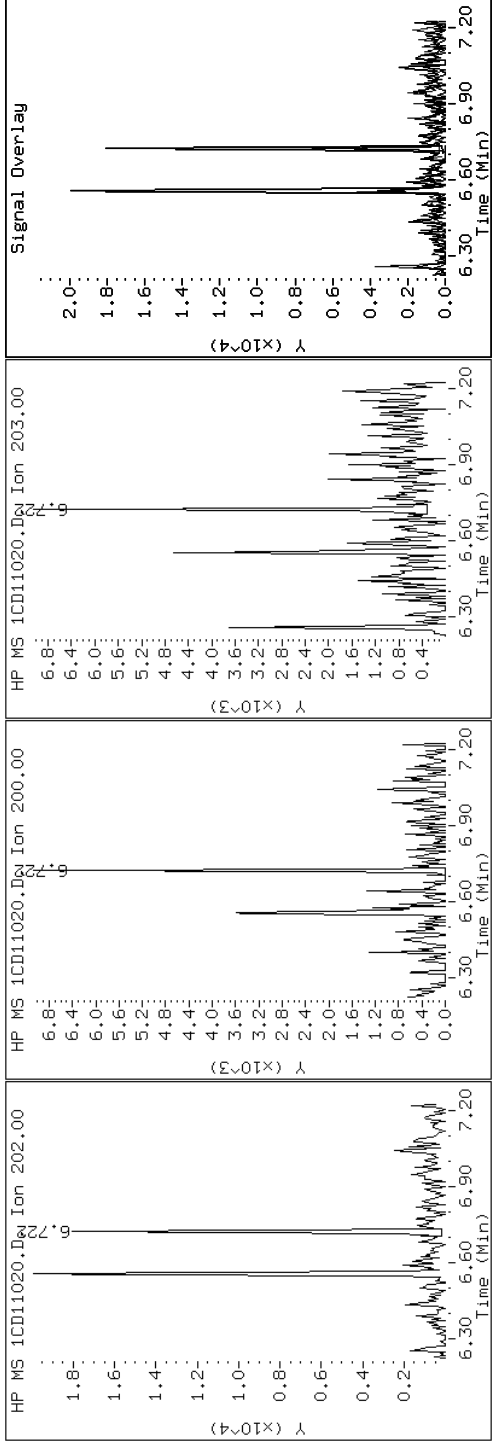
Client ID: CV0496A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-1-a

Operator: SCC

16 Pyrene

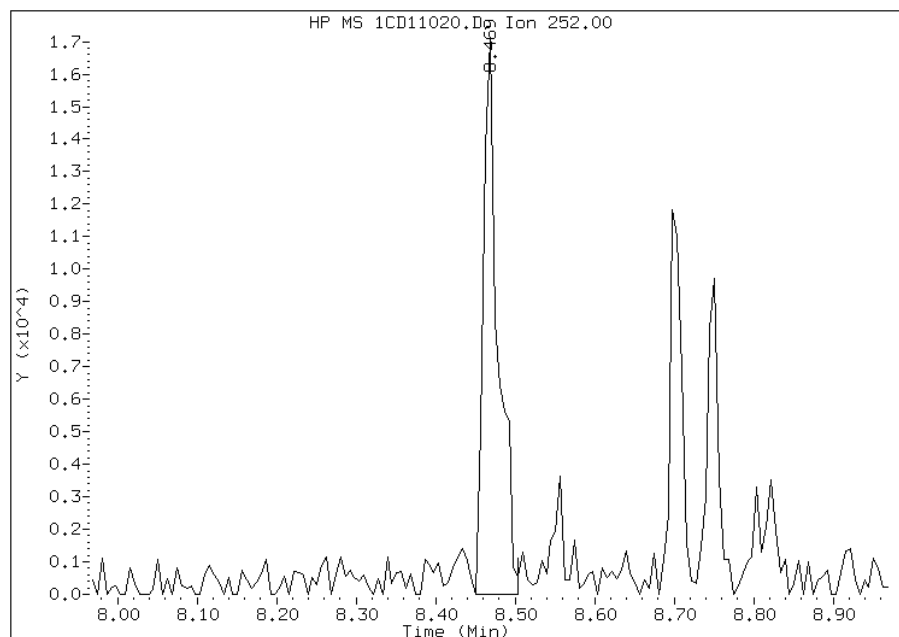


Manual Integration Report

Data File: 1CD11020.D
Inj. Date and Time: 11-APR-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0496A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

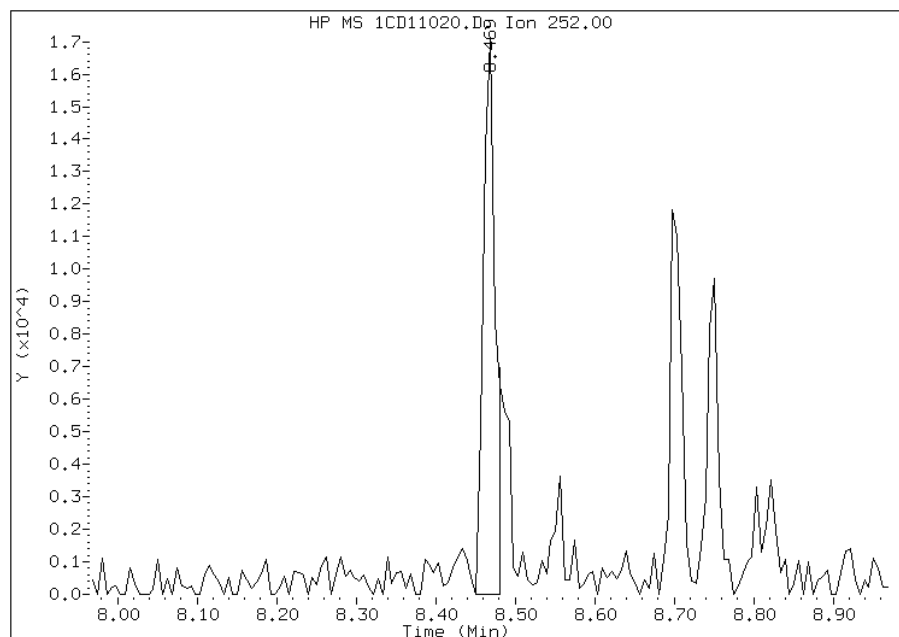
Processing Integration Results

RT: 8.47
Response: 22237
Amount: 2
Conc: 194



Manual Integration Results

RT: 8.47
Response: 17879
Amount: 2
Conc: 156



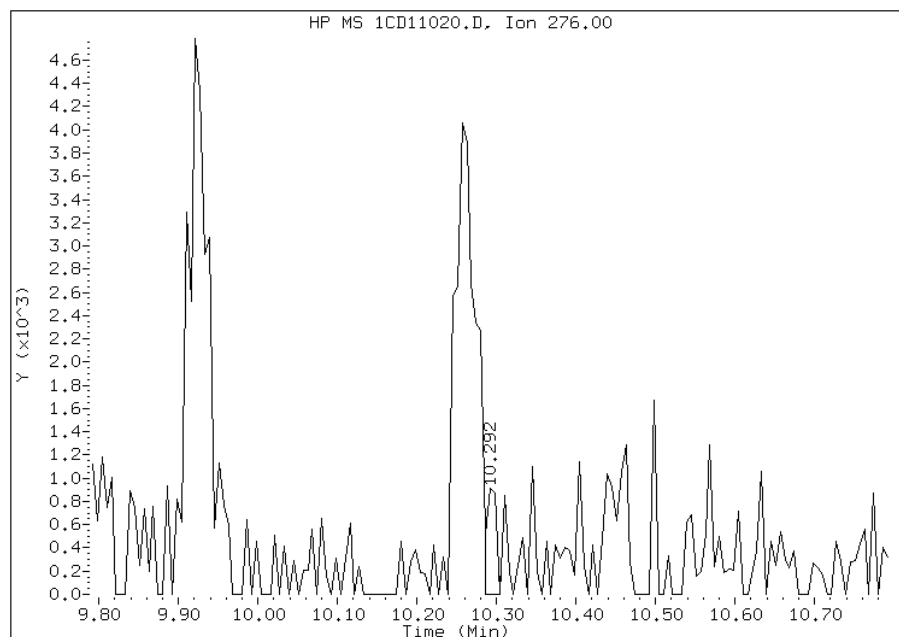
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11020.D
Inj. Date and Time: 11-APR-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0496A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

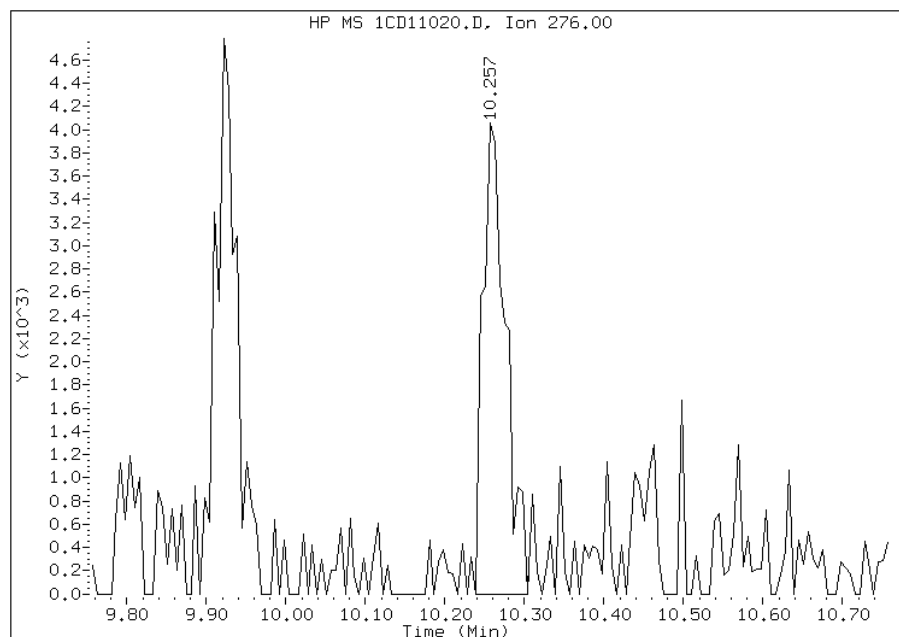
Processing Integration Results

RT: 10.29
Response: 816
Amount: 0
Conc: 7



Manual Integration Results

RT: 10.26
Response: 8051
Amount: 1
Conc: 73



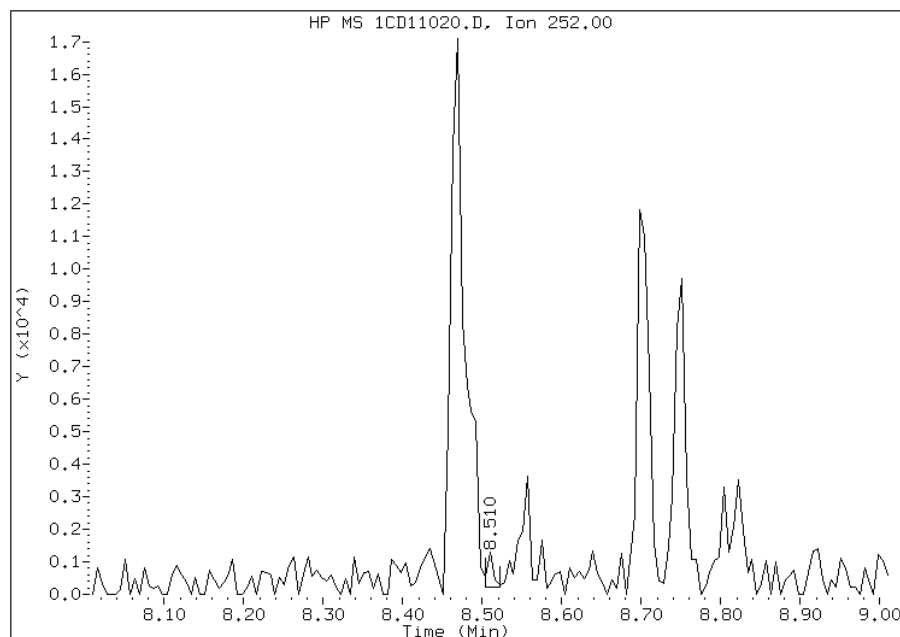
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11020.D
Inj. Date and Time: 11-APR-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0496A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

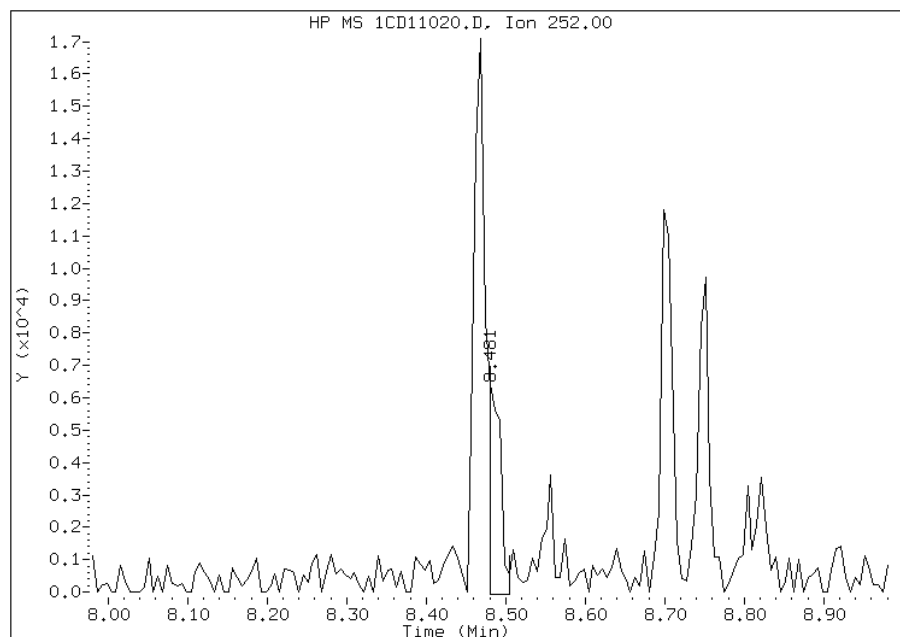
Processing Integration Results

RT: 8.51
Response: 623
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.48
Response: 6752
Amount: 1
Conc: 52



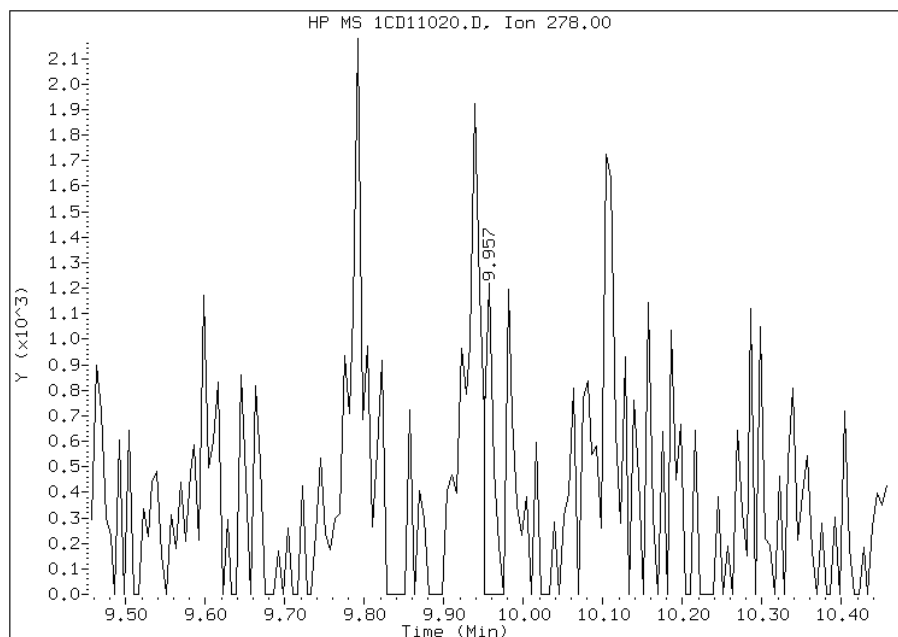
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11020.D
Inj. Date and Time: 11-APR-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0496A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

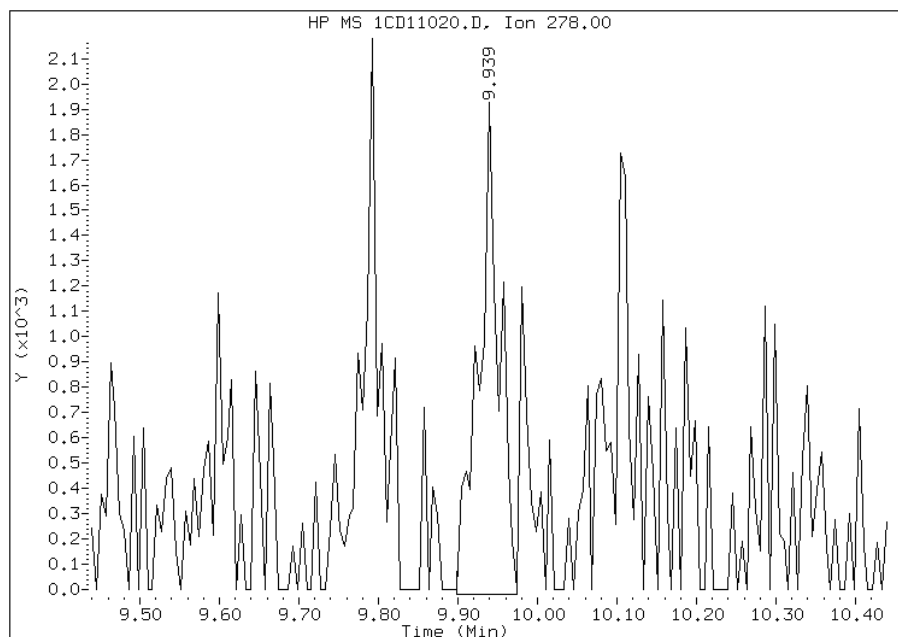
Processing Integration Results

RT: 9.96
Response: 919
Amount: 1
Conc: 49



Manual Integration Results

RT: 9.94
Response: 3518
Amount: 1
Conc: 71



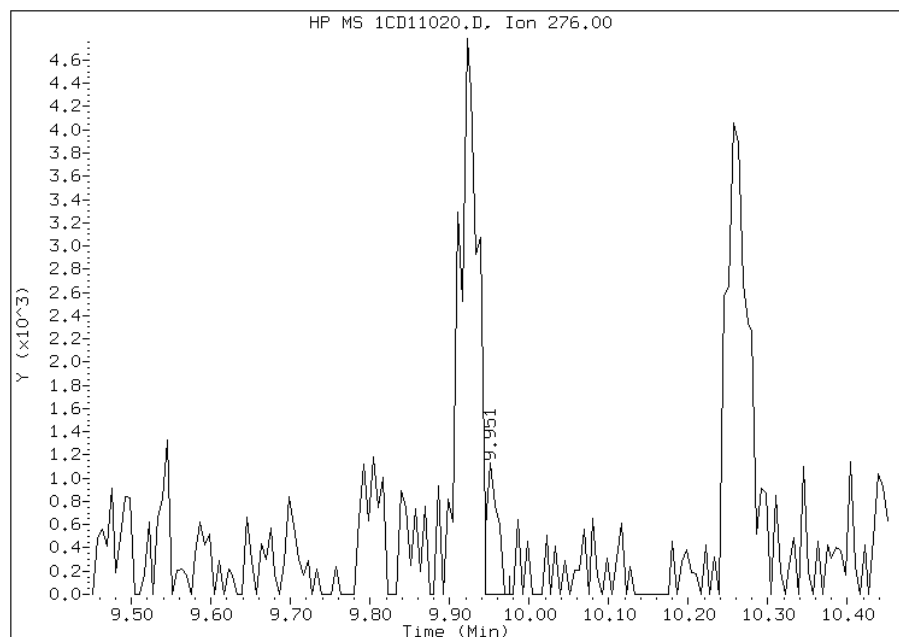
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11020.D
Inj. Date and Time: 11-APR-2013 17:36
Instrument ID: BSMC5973.i
Client ID: CV0496A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

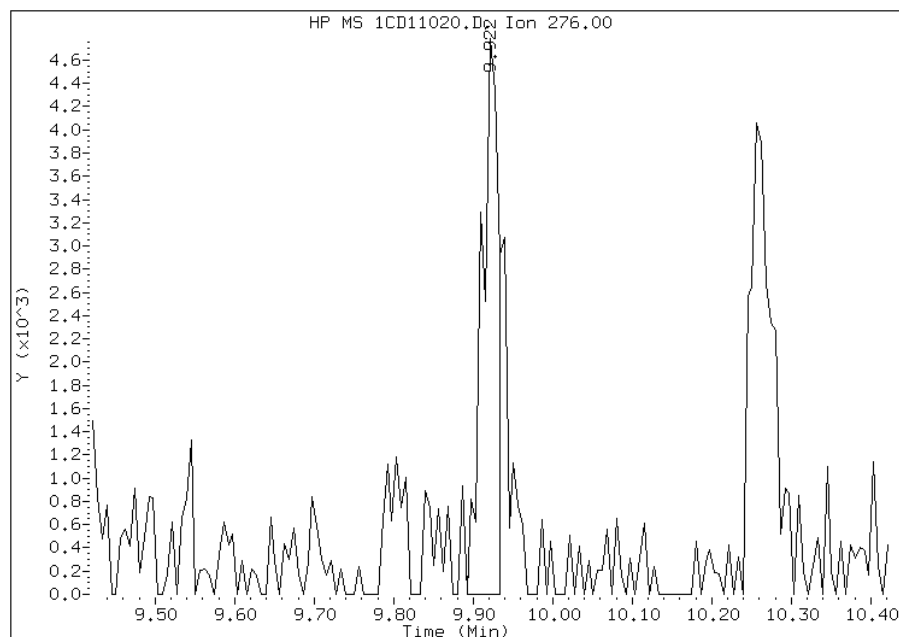
Processing Integration Results

RT: 9.95
Response: 1080
Amount: 1
Conc: 67



Manual Integration Results

RT: 9.92
Response: 6808
Amount: 1
Conc: 116



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0496B-CS-SP Lab Sample ID: 680-89038-2
 Matrix: Solid Lab File ID: 1CD11021.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:50
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.01(g) Date Analyzed: 04/11/2013 17:54
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 35.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	62	U	62	7.8
120-12-7	Anthracene	29		13	6.5
56-55-3	Benzo[a]anthracene	82		12	6.1
50-32-8	Benzo[a]pyrene	76		16	8.1
205-99-2	Benzo[b]fluoranthene	110		19	9.5
191-24-2	Benzo[g,h,i]perylene	46		31	6.9
207-08-9	Benzo[k]fluoranthene	31		12	5.6
218-01-9	Chrysene	96		14	7.0
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.4
206-44-0	Fluoranthene	170		31	6.2
86-73-7	Fluorene	18	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	130		31	11
90-12-0	1-Methylnaphthalene	62		62	6.9
91-57-6	2-Methylnaphthalene	92		62	11
91-20-3	Naphthalene	110		62	6.9
85-01-8	Phenanthrene	150		12	6.1
129-00-0	Pyrene	140		31	5.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11021.D
 Lab Smp Id: 680-89038-A-2-A Client Smp ID: CV0496B-CS-SP
 Inj Date : 11-APR-2013 17:54
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-2-a
 Misc Info : 680-89038-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 21
 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	15.010	Weight Extracted
M	35.915	% 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		3.675	3.675	(1.000)	275708	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	196602	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	356534	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	31945	6.10035	634.1863	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	408107	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	380986	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	7990	1.07208	111.4522	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	3072	0.88904	92.4235	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	2852	0.59909	62.2805	
9 Fluorene	166		5.104	5.104	(1.072)	1115	0.17452	18.1430	
11 Phenanthrene	178		5.721	5.722	(1.003)	15268	1.46486	152.2856	
12 Anthracene	178		5.757	5.757	(1.009)	2912	0.28134	29.2475	
13 Carbazole	167		5.863	5.863	(1.028)	2678	0.27780	28.8799	
15 Fluoranthene	202		6.551	6.557	(1.148)	18675	1.61464	167.8565	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.721	6.722	(0.880)	15473	1.33271	138.5468
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	9130	0.79113	82.2450
19 Chrysene	228	7.657	7.663	(1.002)	10523	0.92174	95.8236
20 Benzo(b)fluoranthene	252	8.474	8.468	(0.963)	9875	1.02622	106.6844(M)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	3299	0.30298	31.4971(QM)
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	7267	0.73058	75.9505
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	5913	1.23777	128.6774
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.165)	4085	0.43815	45.5498(M)

QC Flag Legend

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

Data File: 1CD11021.D

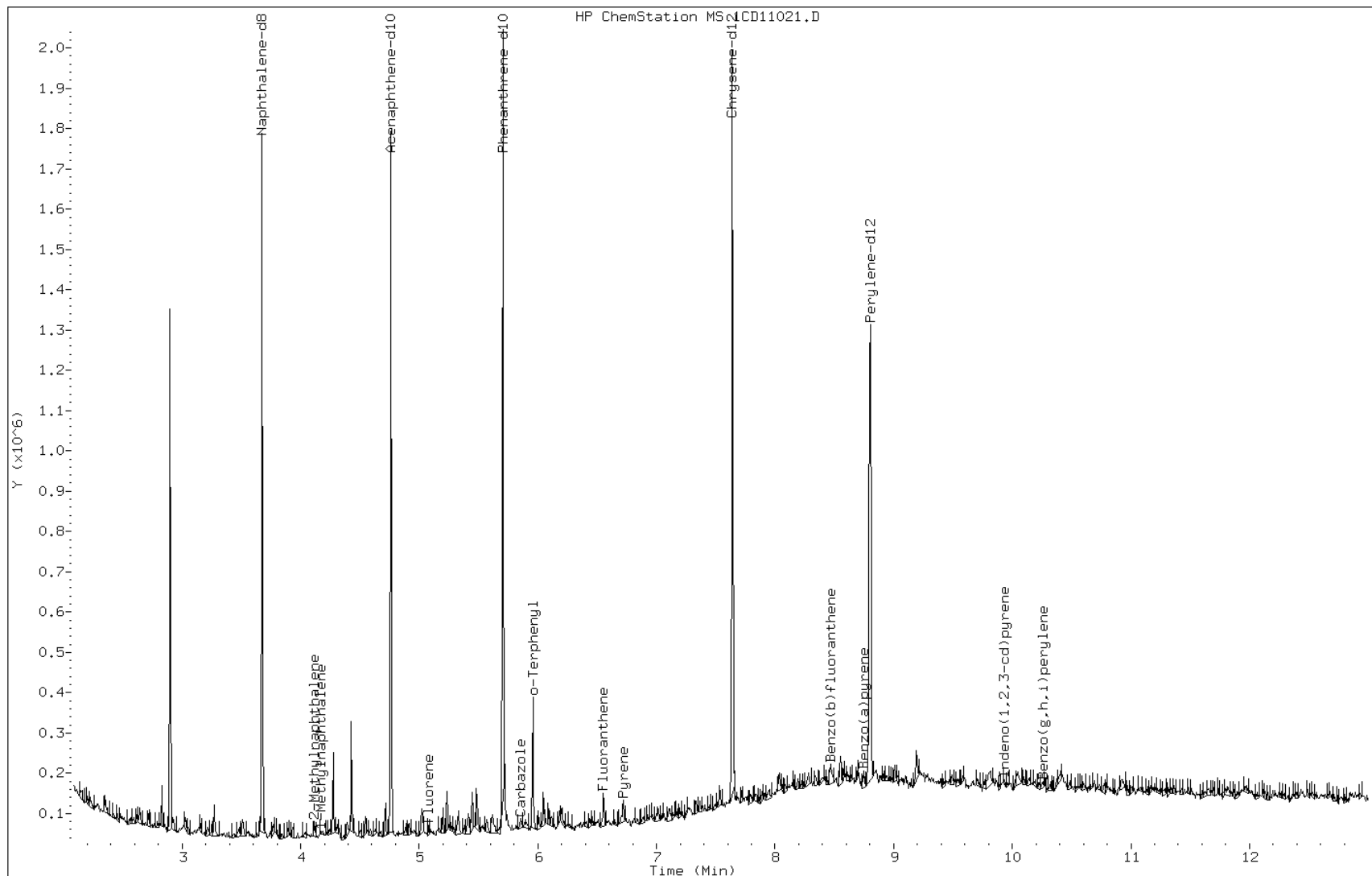
Date: 11-APR-2013 17:54

Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

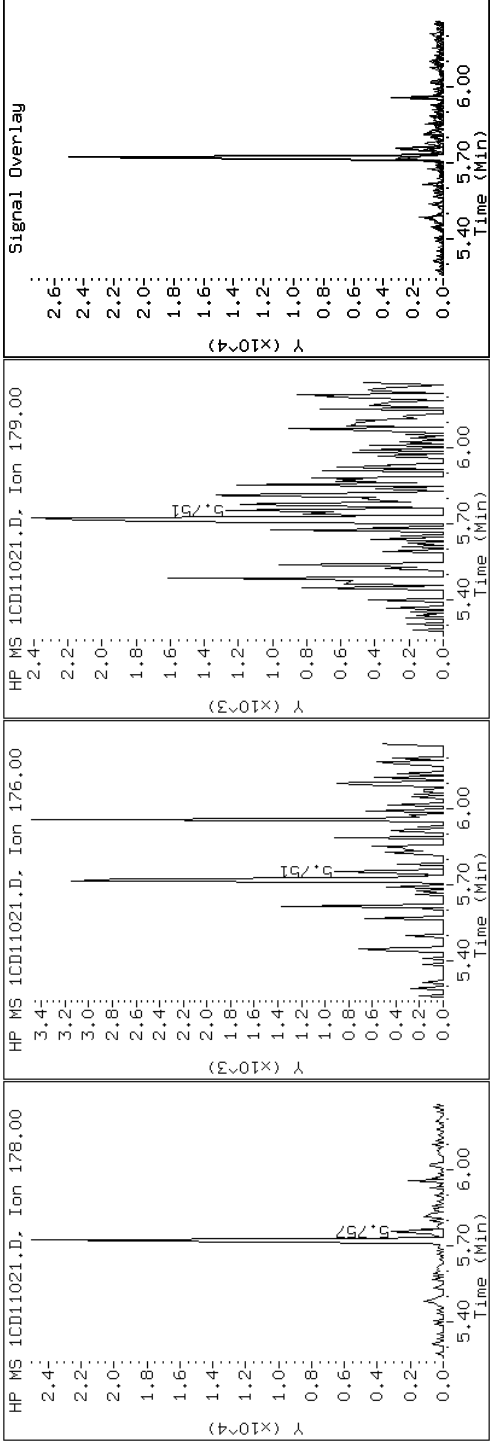
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

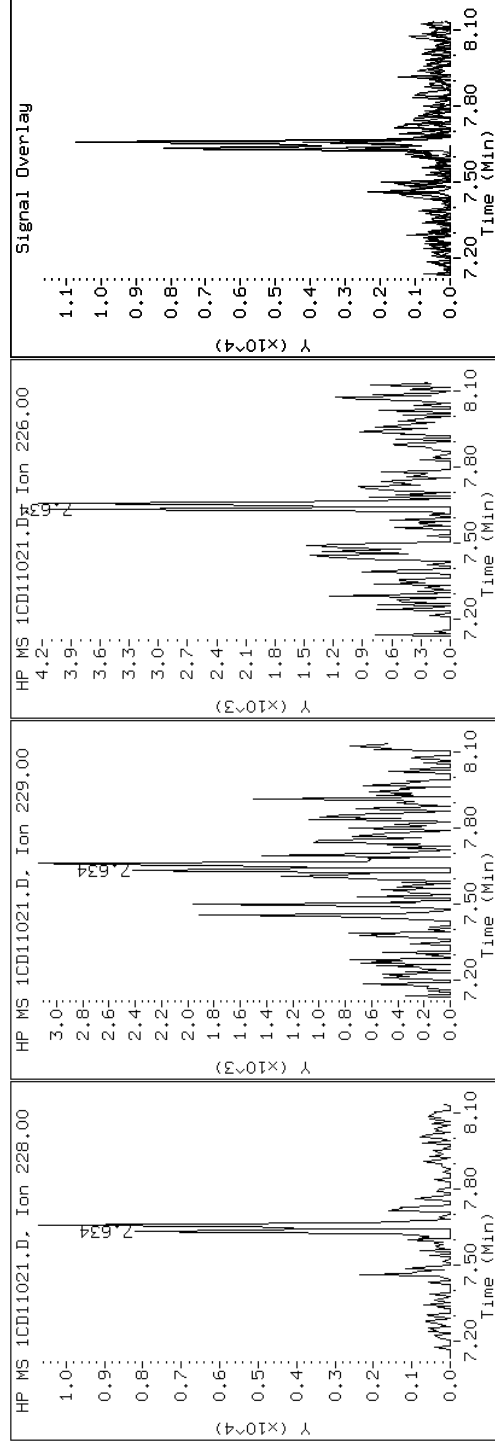
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

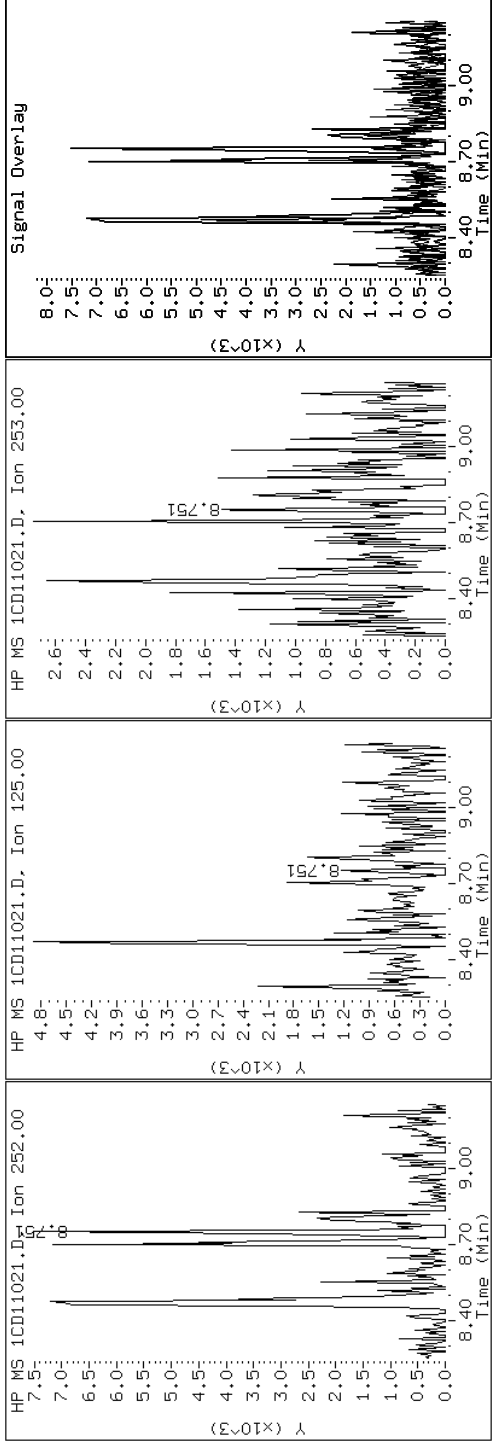
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

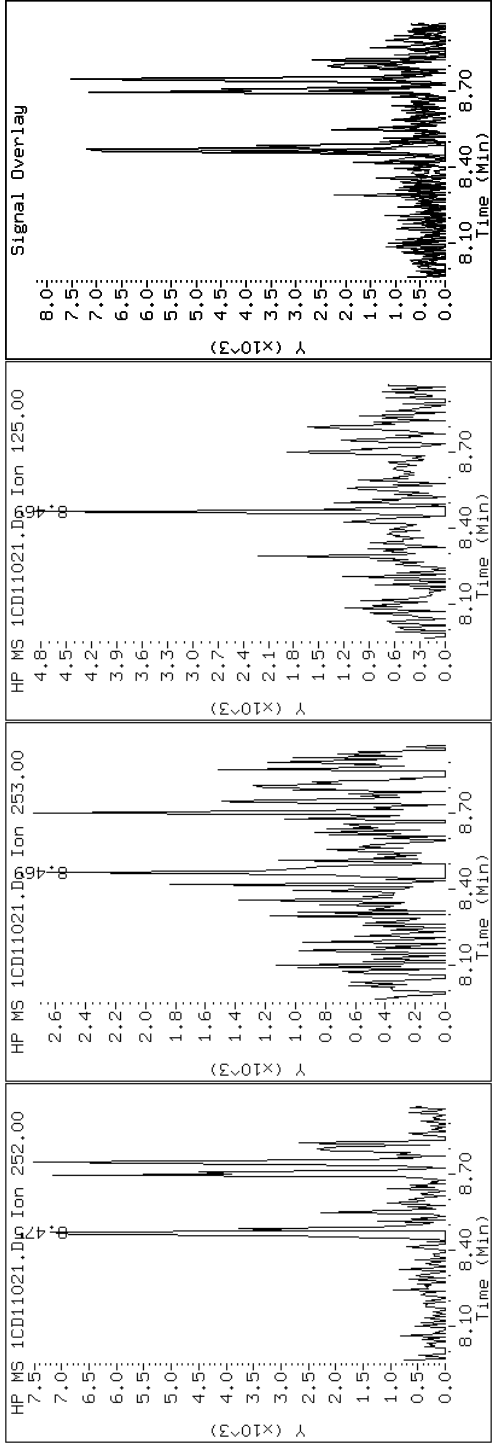
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

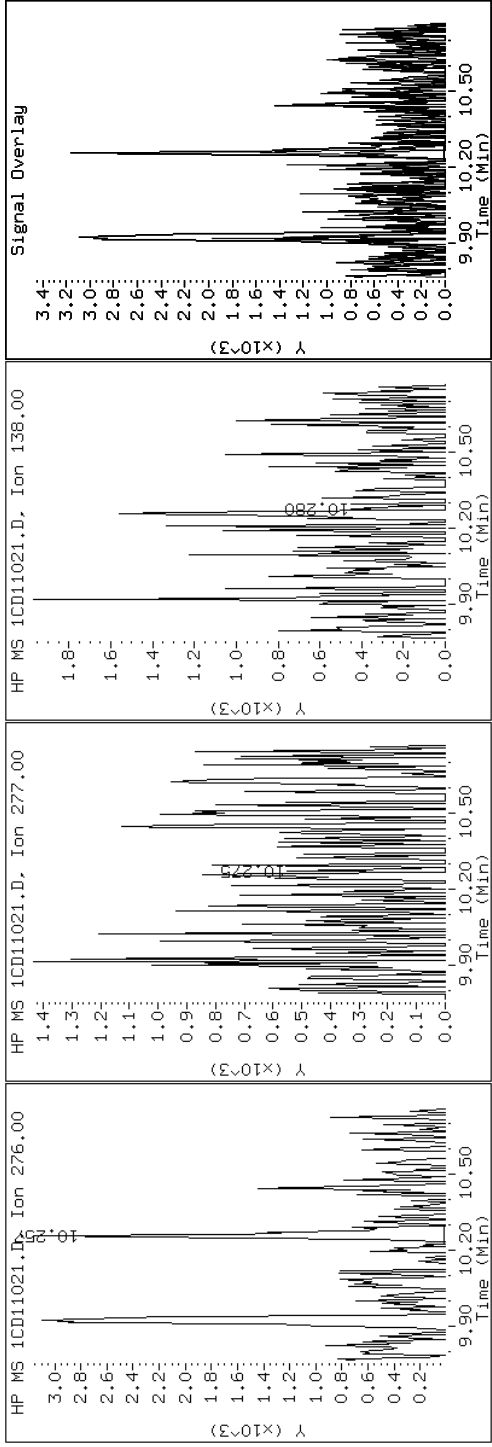
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

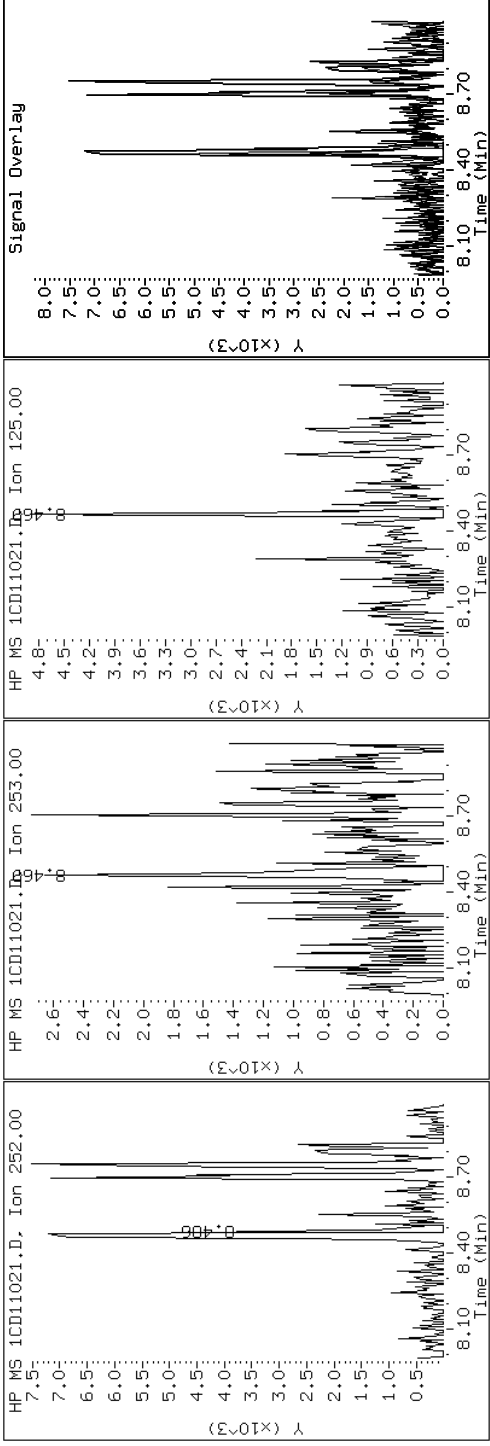
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

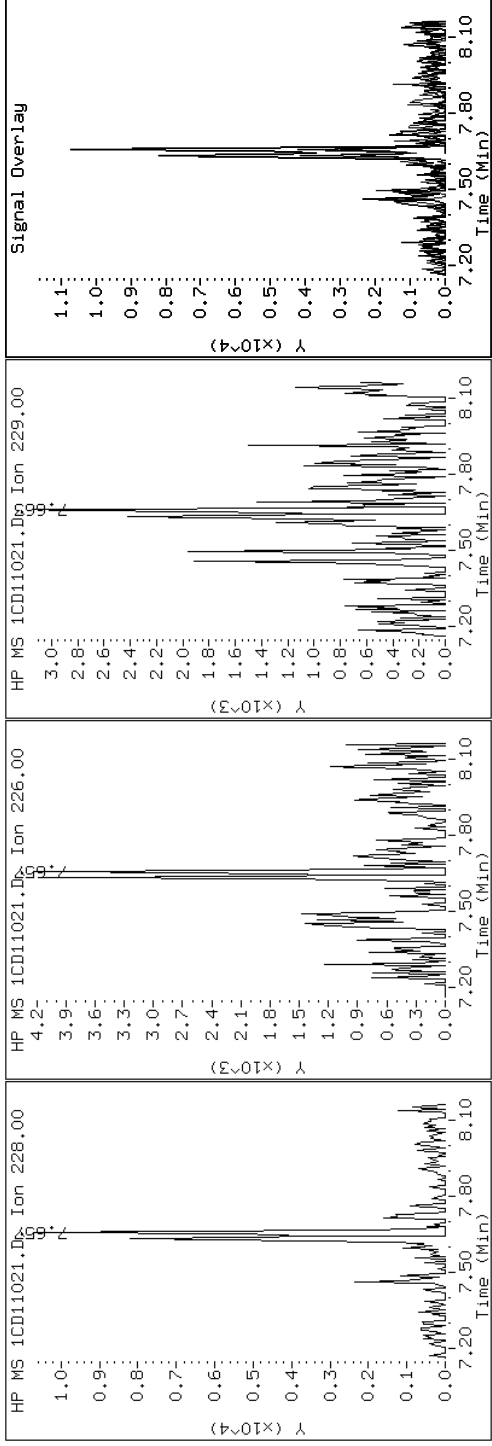
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

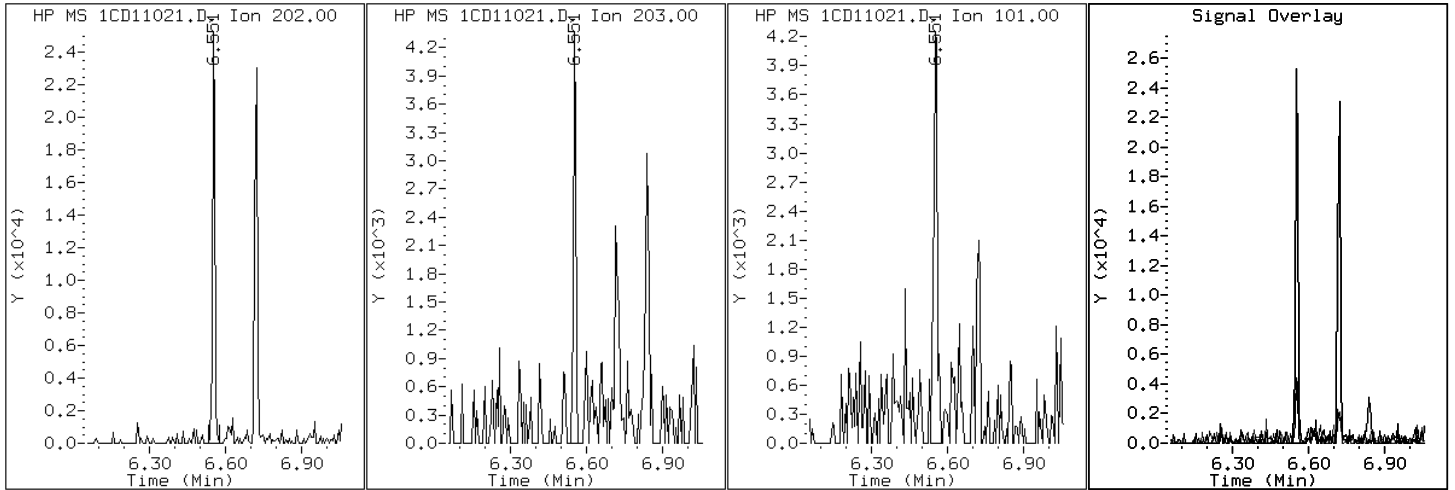
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

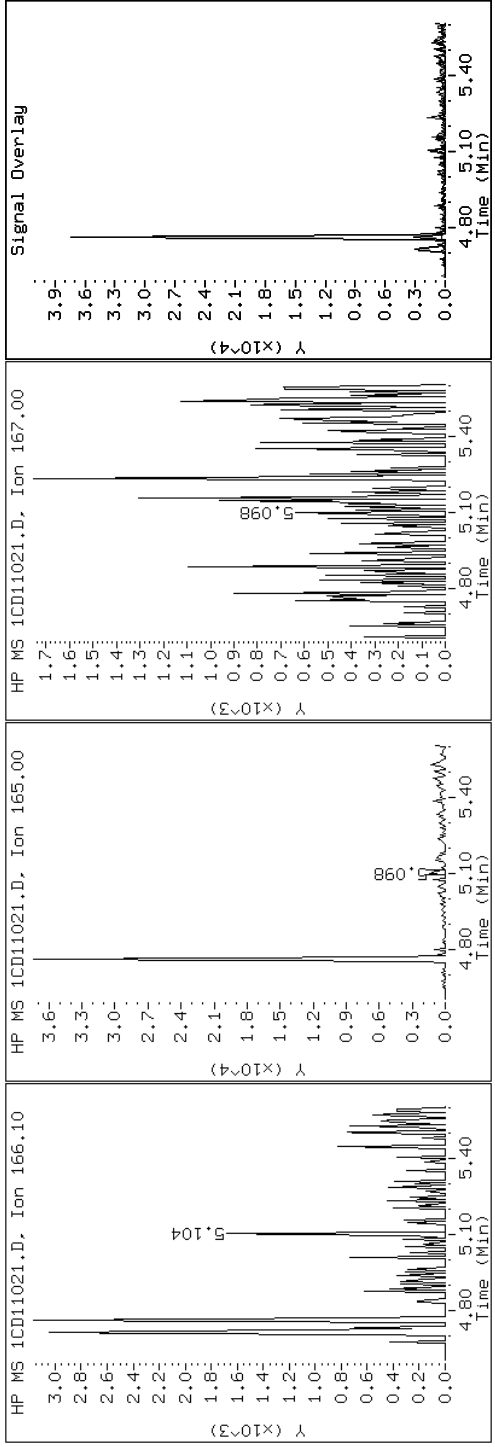
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

9 Fluorene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

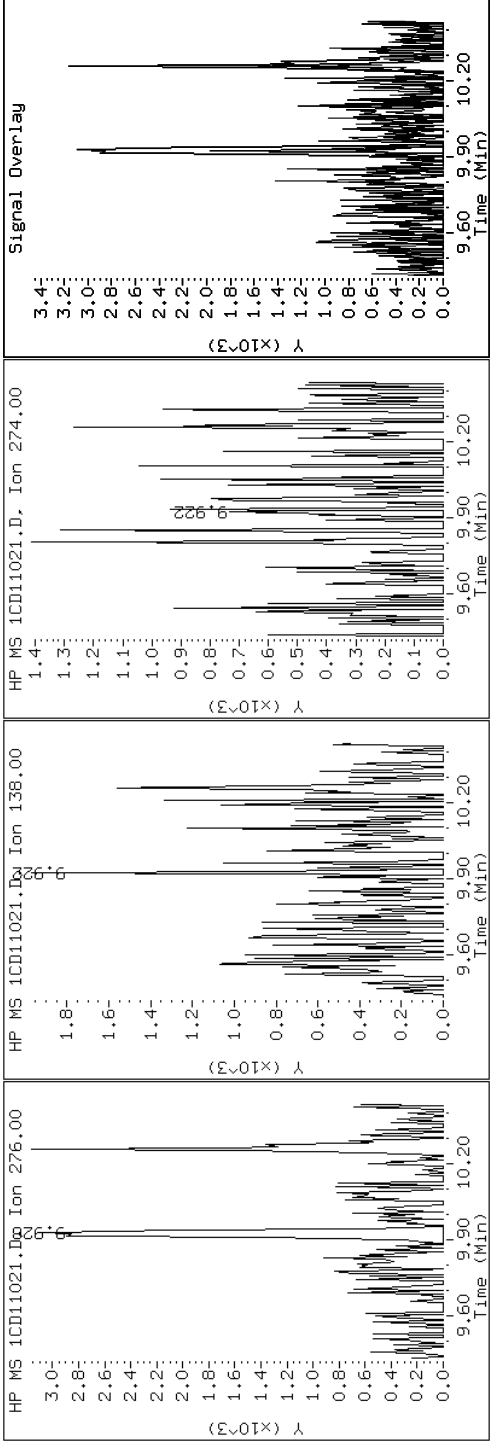
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

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



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

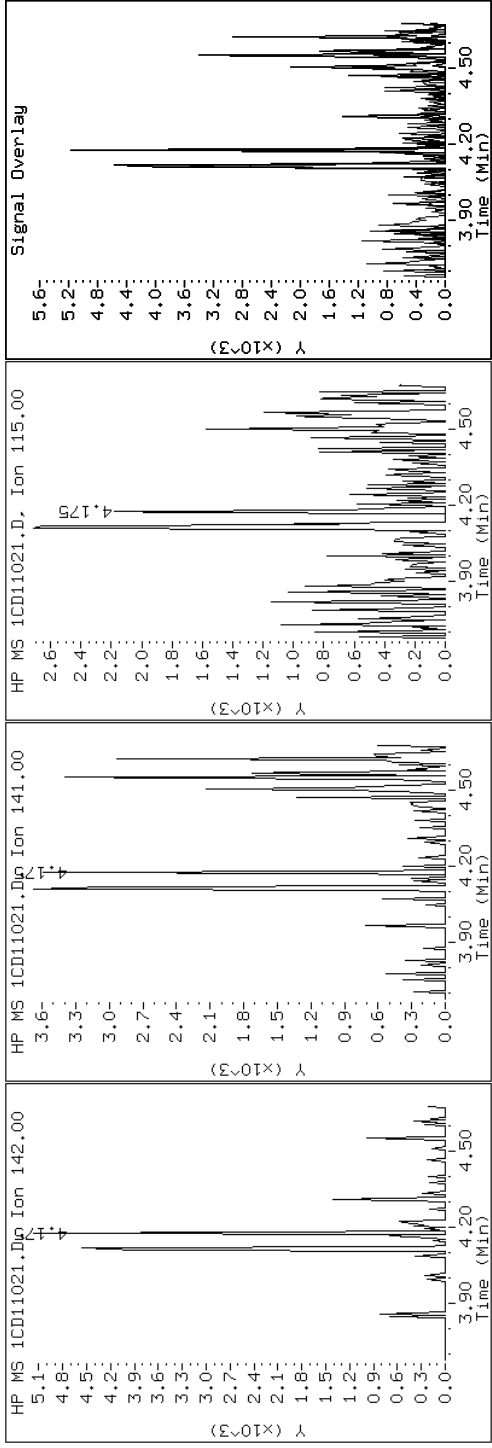
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

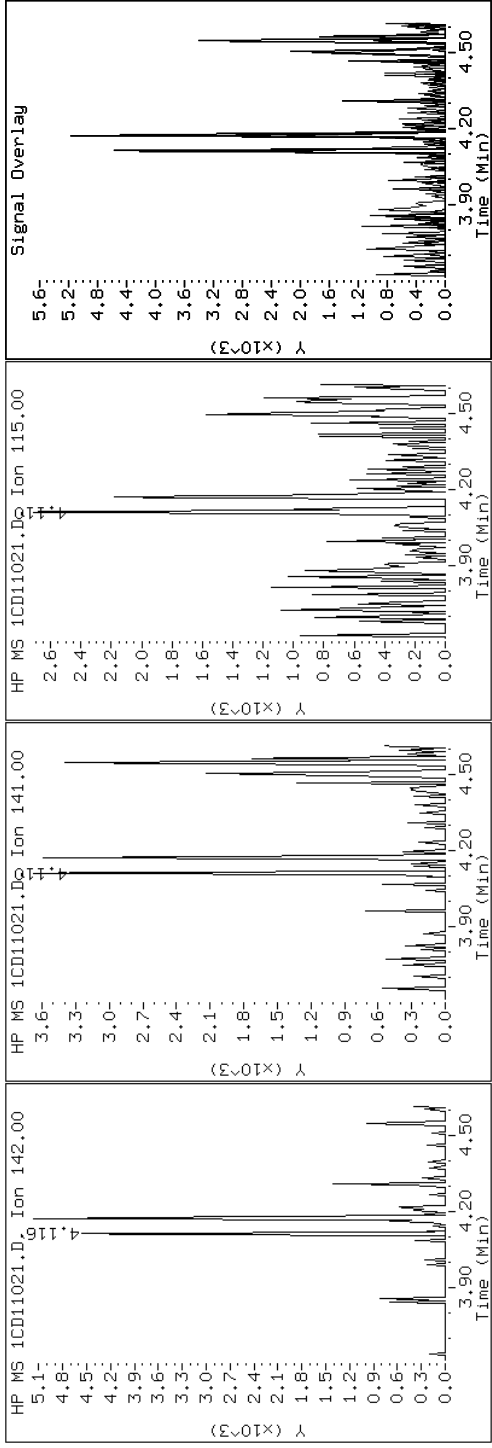
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

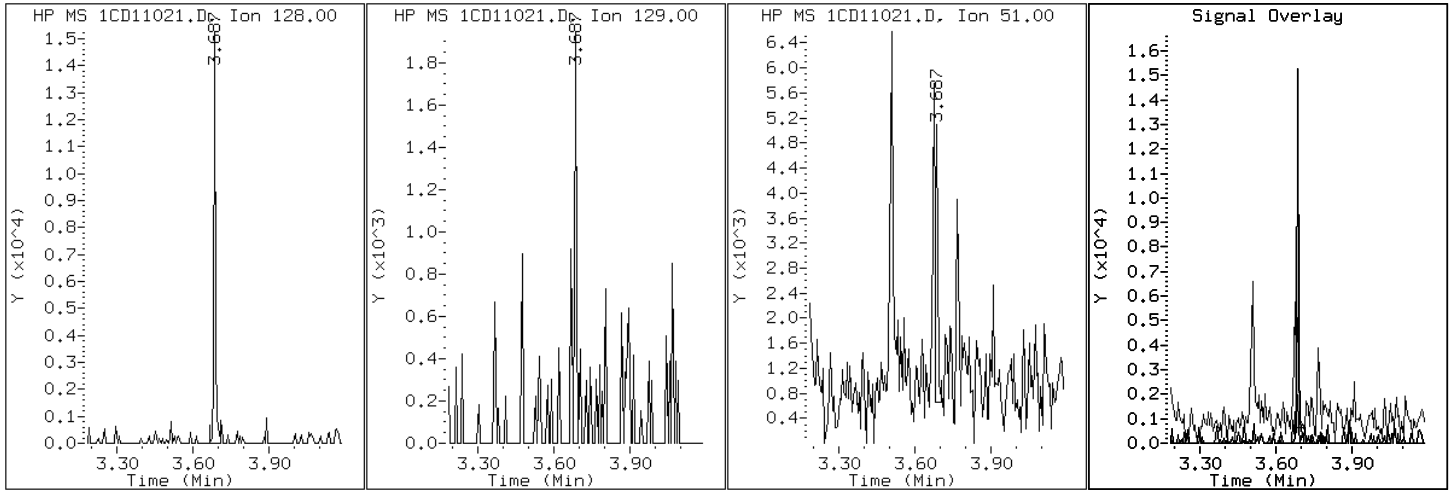
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

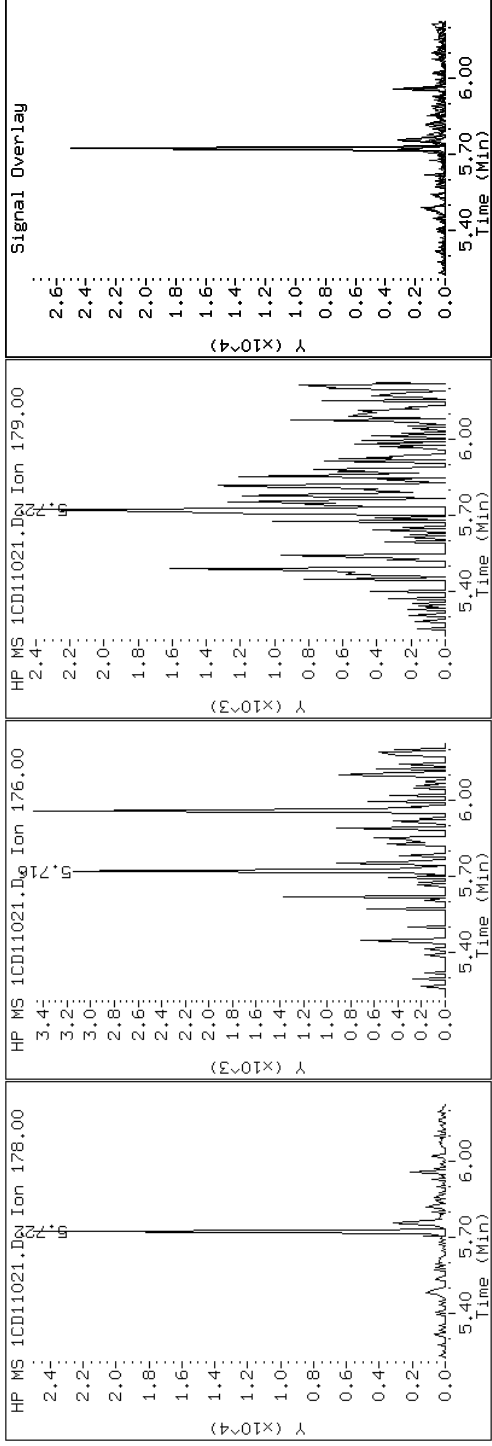
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11021.D

Date: 11-APR-2013 17:54

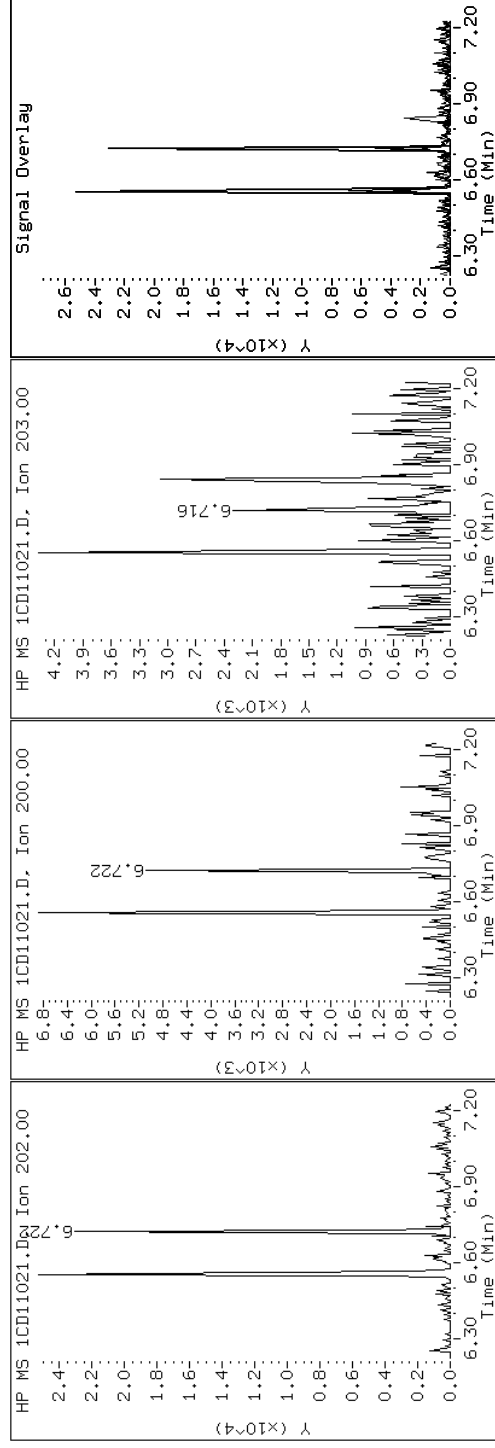
Client ID: CV0496B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-2-a

Operator: SCC

16 Pyrene

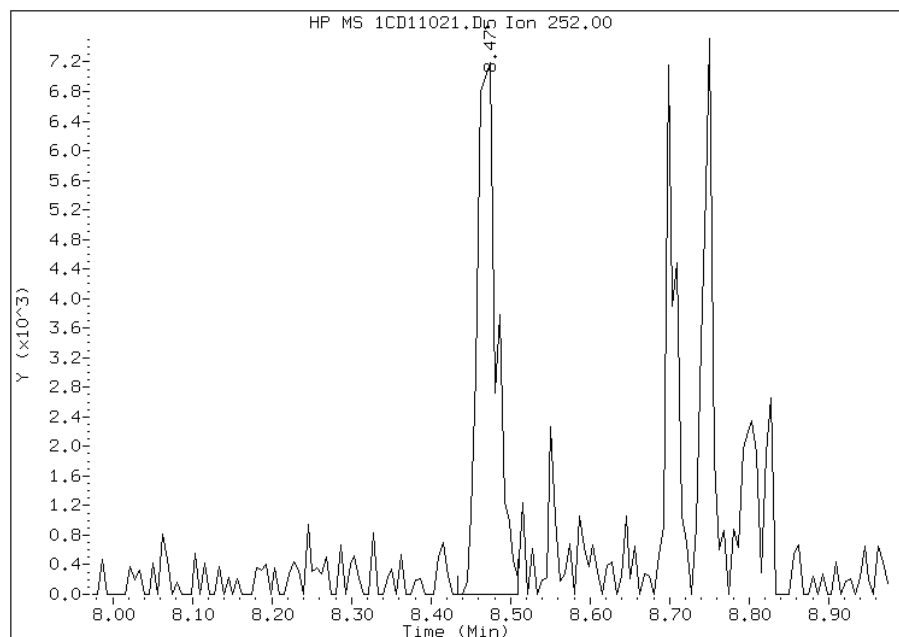


Manual Integration Report

Data File: 1CD11021.D
Inj. Date and Time: 11-APR-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0496B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

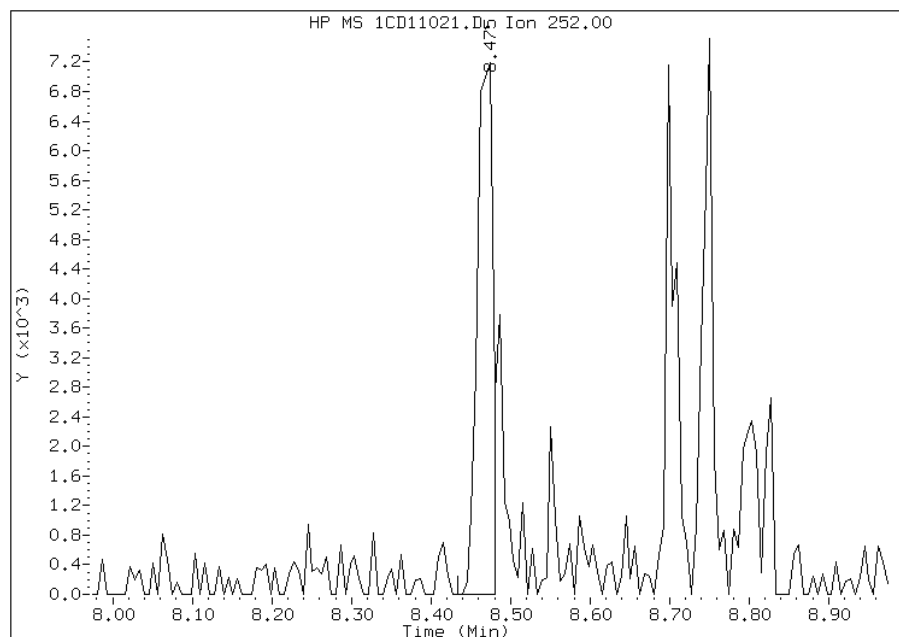
Processing Integration Results

RT: 8.47
Response: 12235
Amount: 1
Conc: 132



Manual Integration Results

RT: 8.47
Response: 9875
Amount: 1
Conc: 107



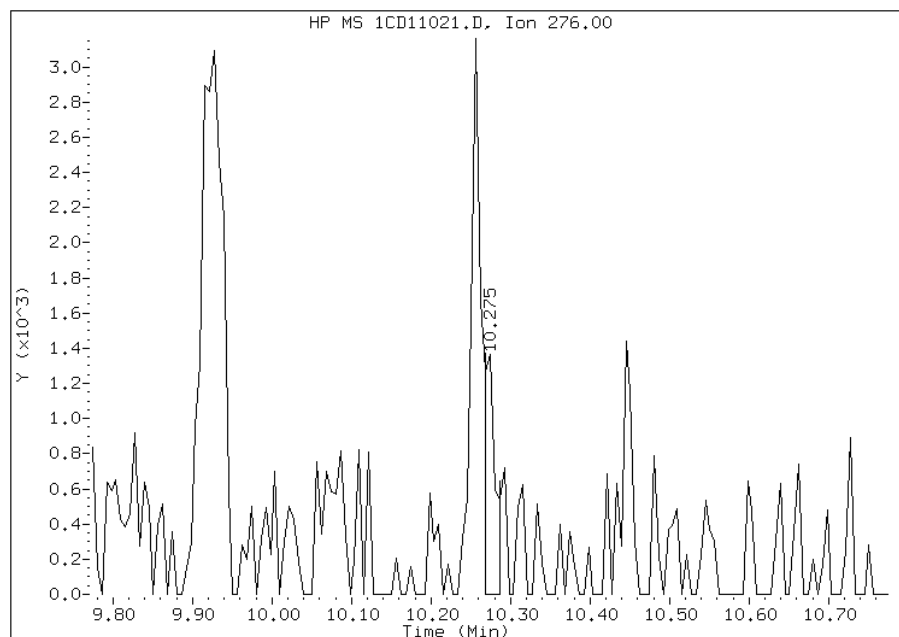
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11021.D
Inj. Date and Time: 11-APR-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0496B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

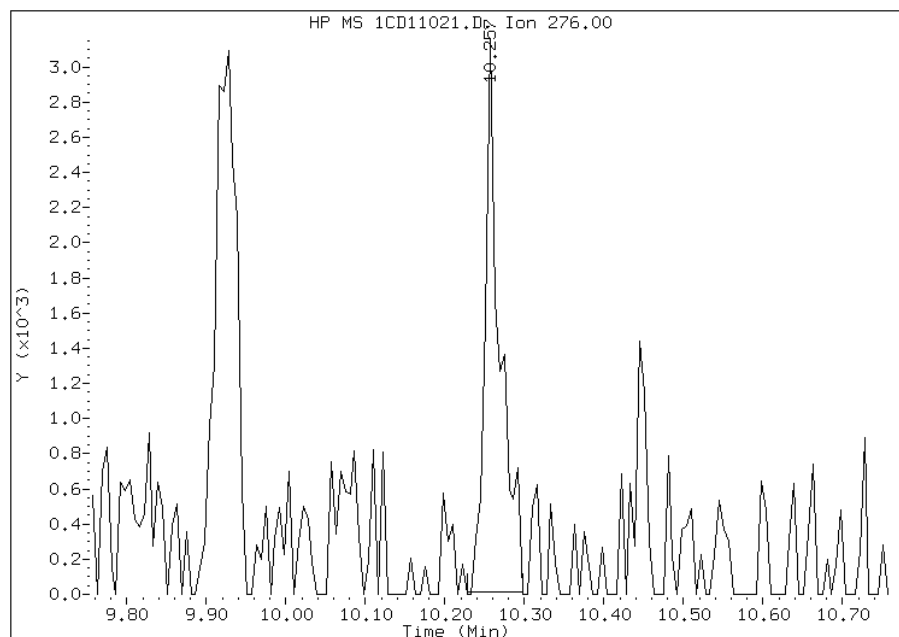
Processing Integration Results

RT: 10.27
Response: 1331
Amount: 0
Conc: 15



Manual Integration Results

RT: 10.26
Response: 4085
Amount: 0
Conc: 46



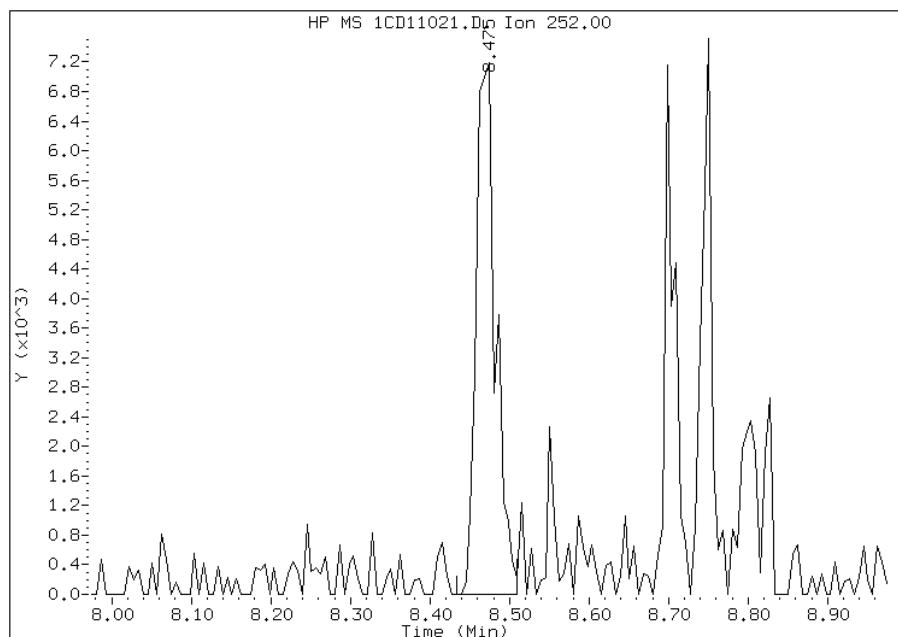
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11021.D
Inj. Date and Time: 11-APR-2013 17:54
Instrument ID: BSMC5973.i
Client ID: CV0496B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

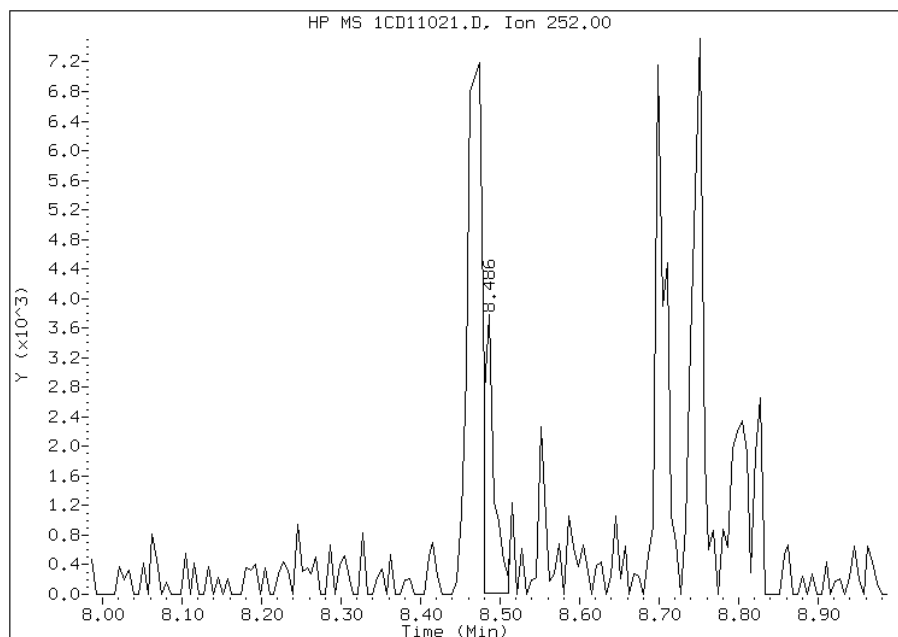
Processing Integration Results

RT: 8.47
Response: 12235
Amount: 1
Conc: 117



Manual Integration Results

RT: 8.49
Response: 3299
Amount: 0
Conc: 31



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:09
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0497A-CS-SP Lab Sample ID: 680-89038-3
 Matrix: Solid Lab File ID: 1CD11022.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:10
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.05(g) Date Analyzed: 04/11/2013 18:13
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 45.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	37
208-96-8	Acenaphthylene	73	U	73	9.2
120-12-7	Anthracene	25		15	7.7
56-55-3	Benzo[a]anthracene	200		15	7.2
50-32-8	Benzo[a]pyrene	190		19	9.5
205-99-2	Benzo[b]fluoranthene	350		22	11
191-24-2	Benzo[g,h,i]perylene	180		37	8.1
207-08-9	Benzo[k]fluoranthene	130		15	6.6
218-01-9	Chrysene	220		17	8.3
53-70-3	Dibenz(a,h)anthracene	97		37	7.5
206-44-0	Fluoranthene	220		37	7.3
86-73-7	Fluorene	22	J	37	7.5
193-39-5	Indeno[1,2,3-cd]pyrene	180		37	13
90-12-0	1-Methylnaphthalene	66	J	73	8.1
91-57-6	2-Methylnaphthalene	110		73	13
91-20-3	Naphthalene	120		73	8.1
85-01-8	Phenanthrene	150		15	7.2
129-00-0	Pyrene	250		37	6.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11022.D
 Lab Smp Id: 680-89038-A-3-A Client Smp ID: CV0497A-CS-SP
 Inj Date : 11-APR-2013 18:13
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-3-a
 Misc Info : 680-89038-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	45.683	% 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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.674	3.675	(1.000)	313869	40.0000		
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	222218	40.0000		
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	386118	40.0000		
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	29294	5.27117	644.8099	
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	422104	40.0000		
* 23 Perylene-d12	264	8.803	8.798	(1.000)	431345	40.0000		
2 Naphthalene	128	3.686	3.687	(1.003)	8023	0.94562	115.6755	
3 2-Methylnaphthalene	142	4.116	4.115	(1.120)	3563	0.90063	110.1724	
4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	2933	0.54119	66.2030	
9 Fluorene	166	5.098	5.104	(1.070)	1316	0.18224	22.2926(Q)	
11 Phenanthrene	178	5.721	5.722	(1.003)	13617	1.20770	147.7345	
12 Anthracene	178	5.757	5.757	(1.009)	2288	0.20411	24.9687	
13 Carbazole	167	5.862	5.863	(1.028)	3675	0.35201	43.0611	
15 Fluoranthene	202	6.551	6.557	(1.148)	22295	1.77993	217.7349	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.721	6.722	(0.880)	24700	2.05689	251.6144
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	19202	1.60871	196.7896
19 Chrysene	228	7.656	7.663	(1.002)	20876	1.76796	216.2704
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.961)	31142	2.85846	349.6686(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	12806	1.03878	127.0715
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	17240	1.53086	187.2661
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.127)	9571	1.49486	182.8627(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.128)	3811	0.79205	96.8899
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.165)	15541	1.47230	180.1027

QC Flag Legend

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

Data File: 1CD11022.D

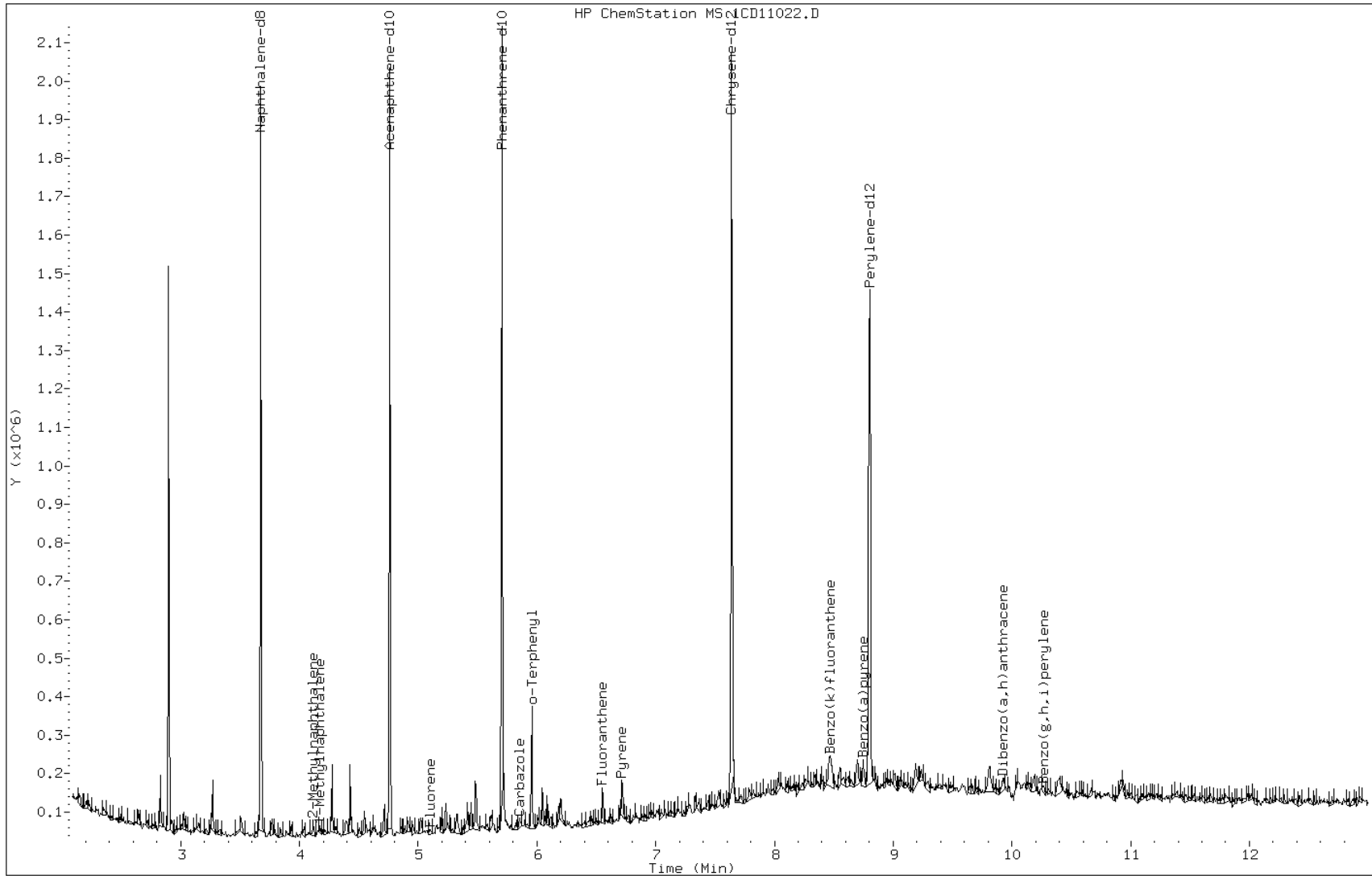
Date: 11-APR-2013 18:13

Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

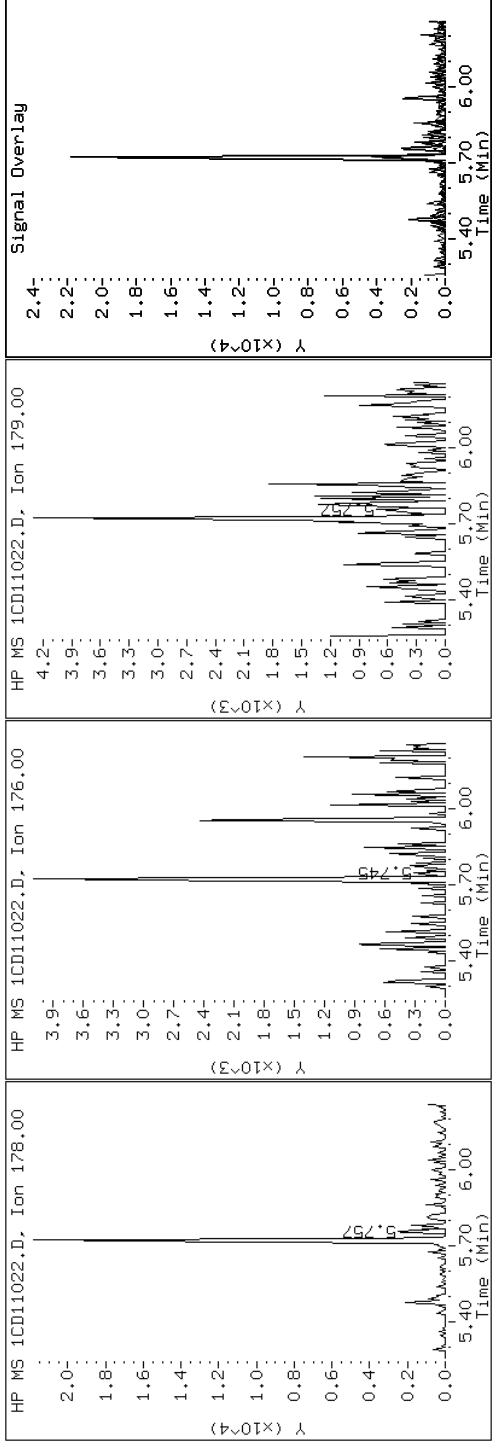
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

12 Anthracene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

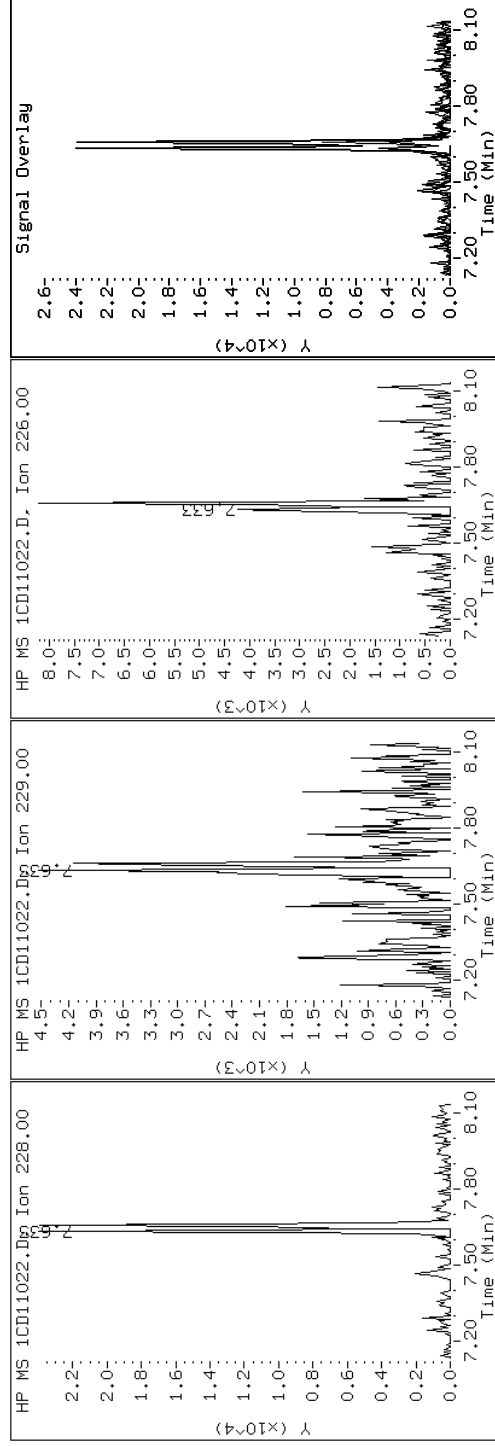
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

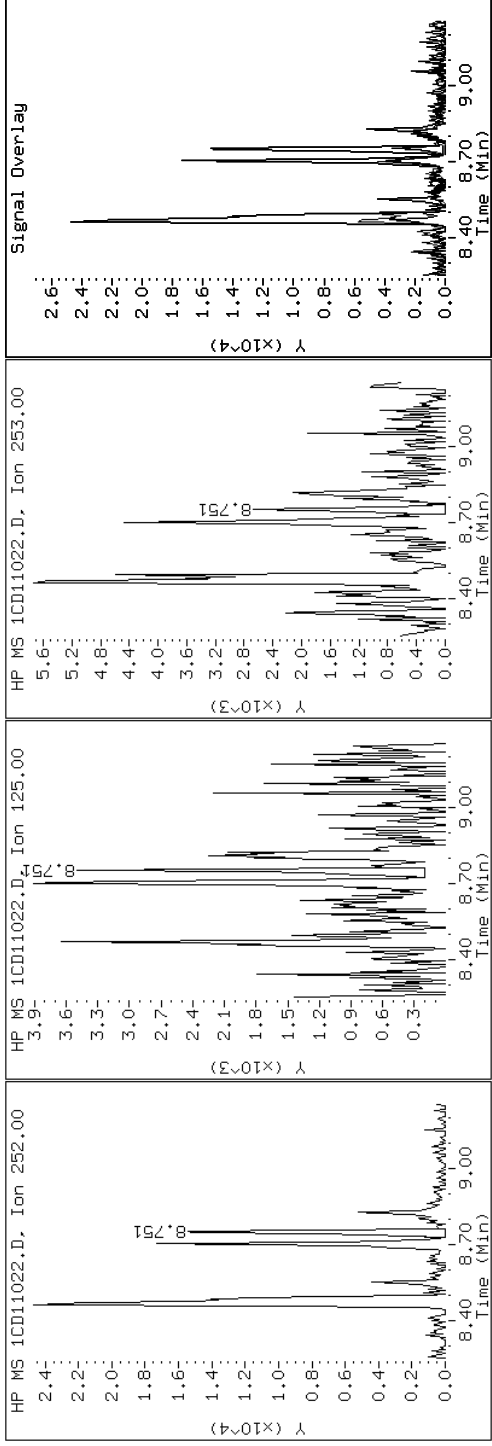
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

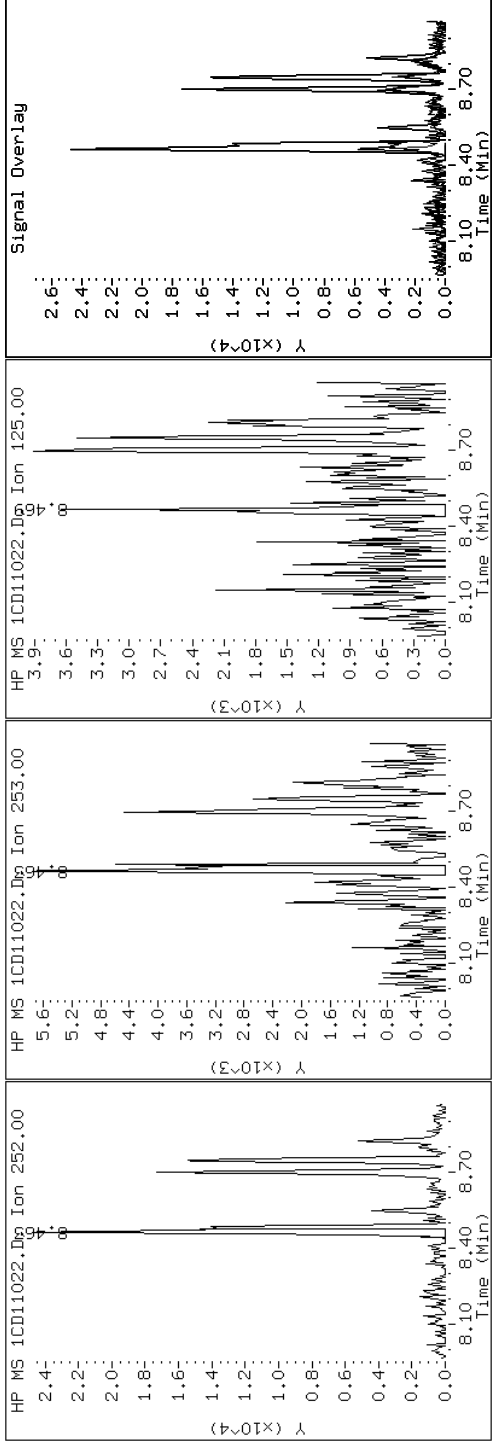
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

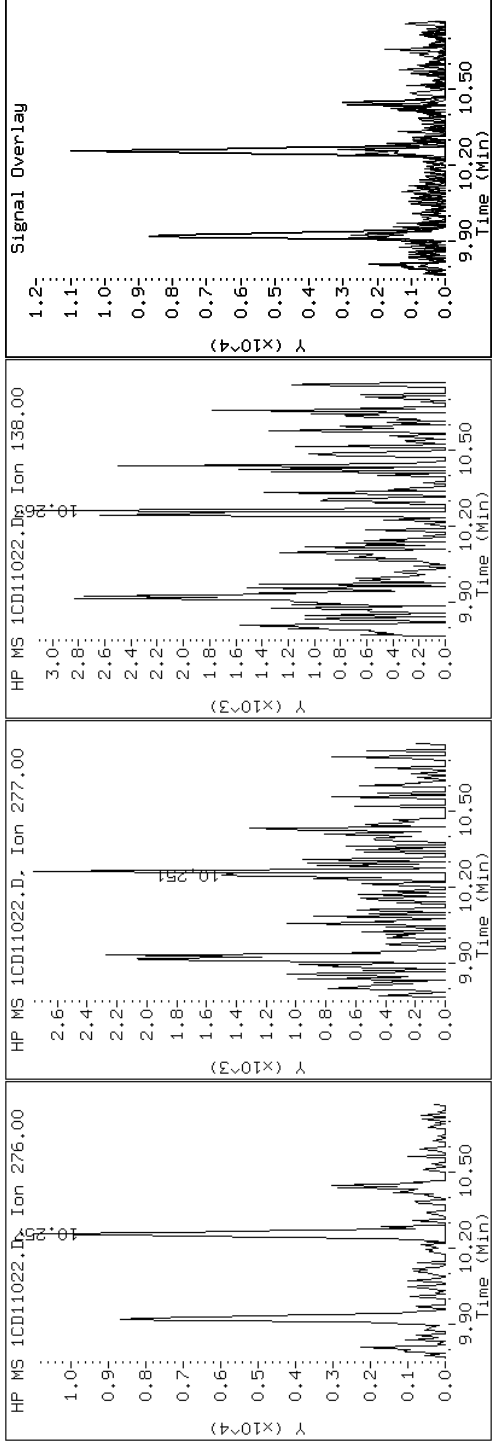
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

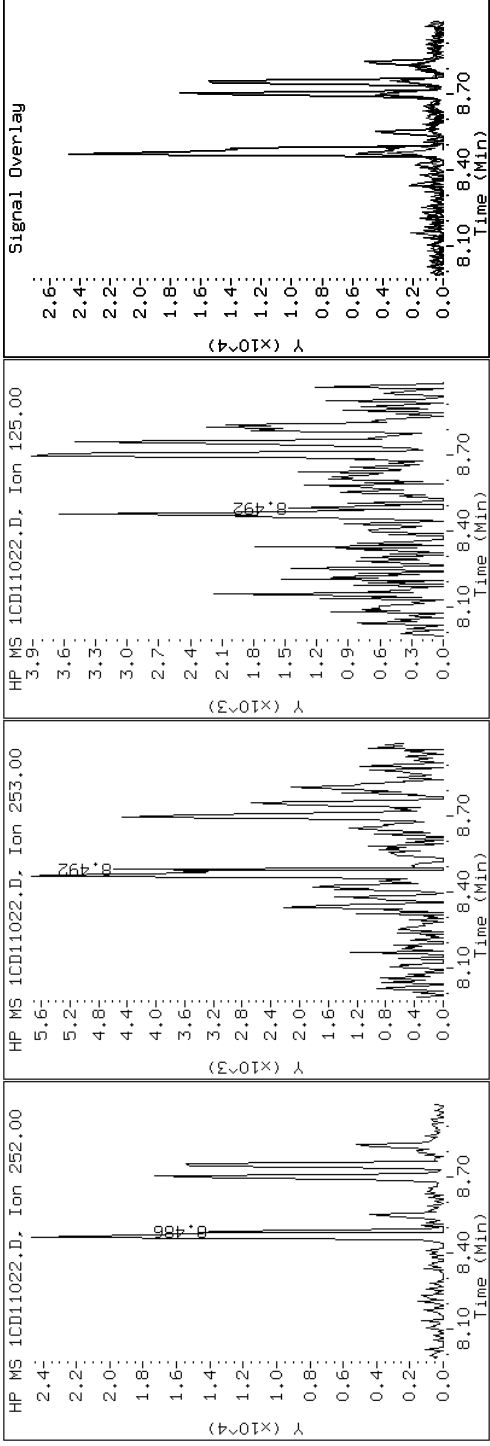
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

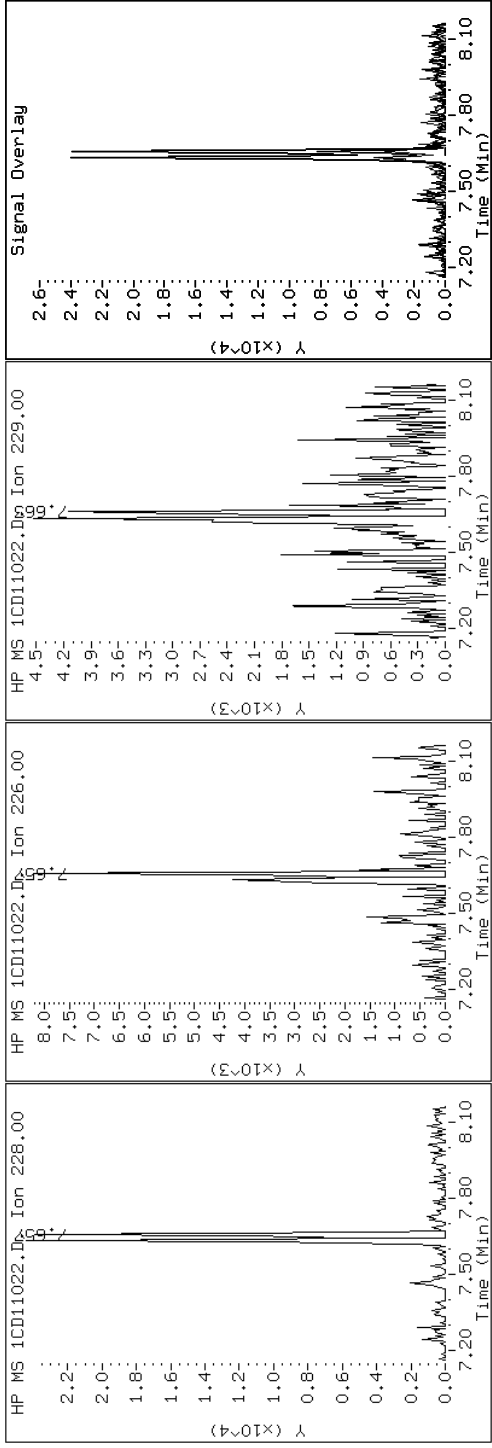
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

19 Chrysene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

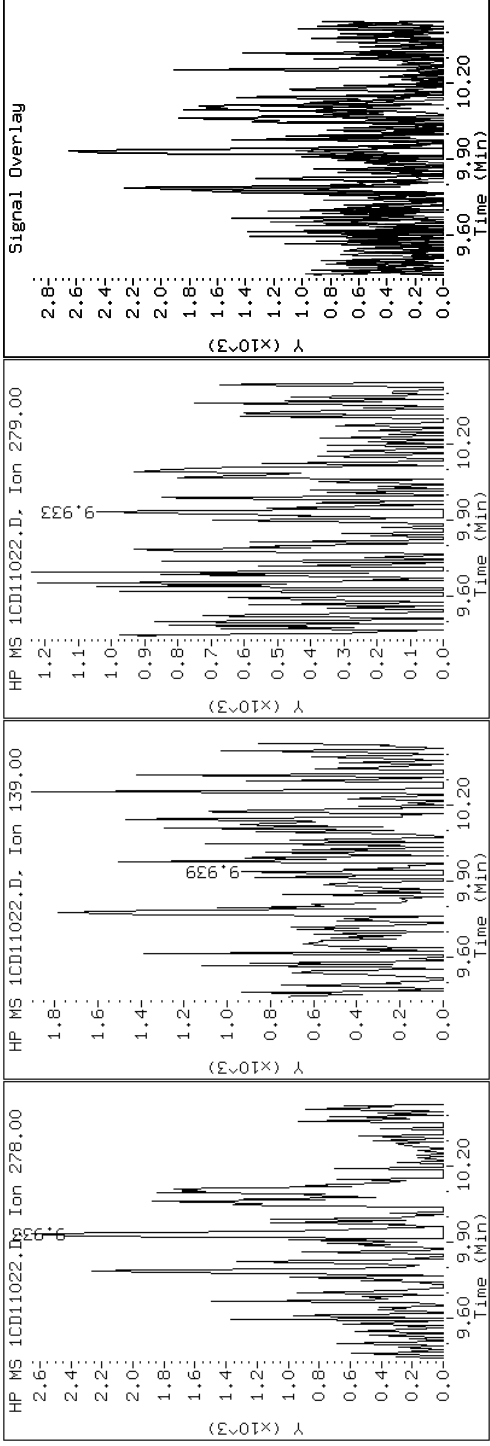
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

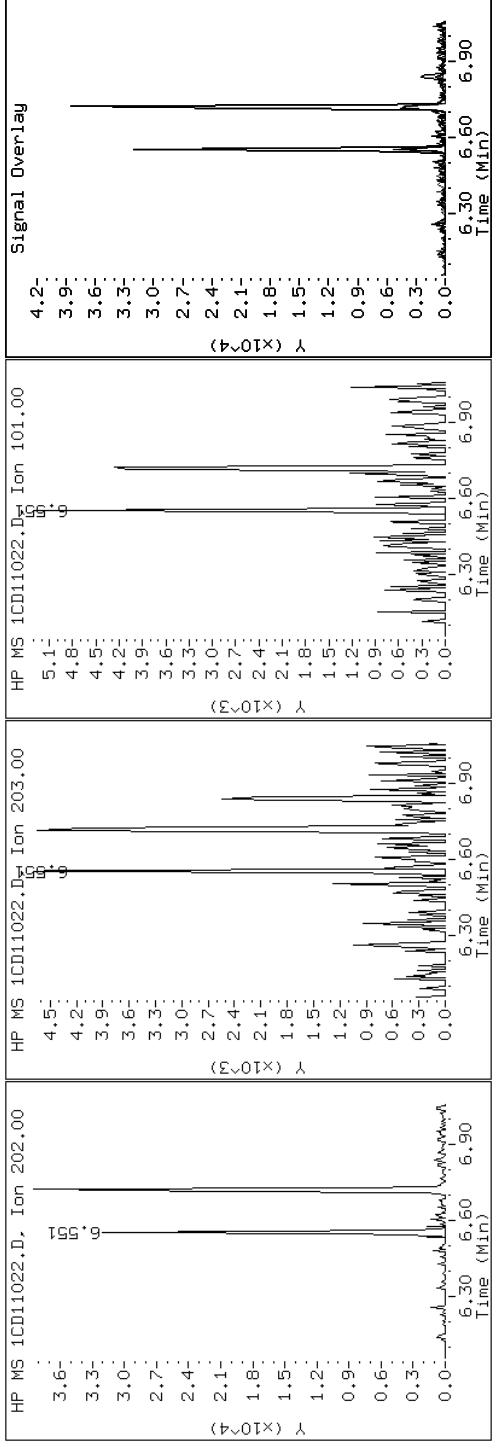
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

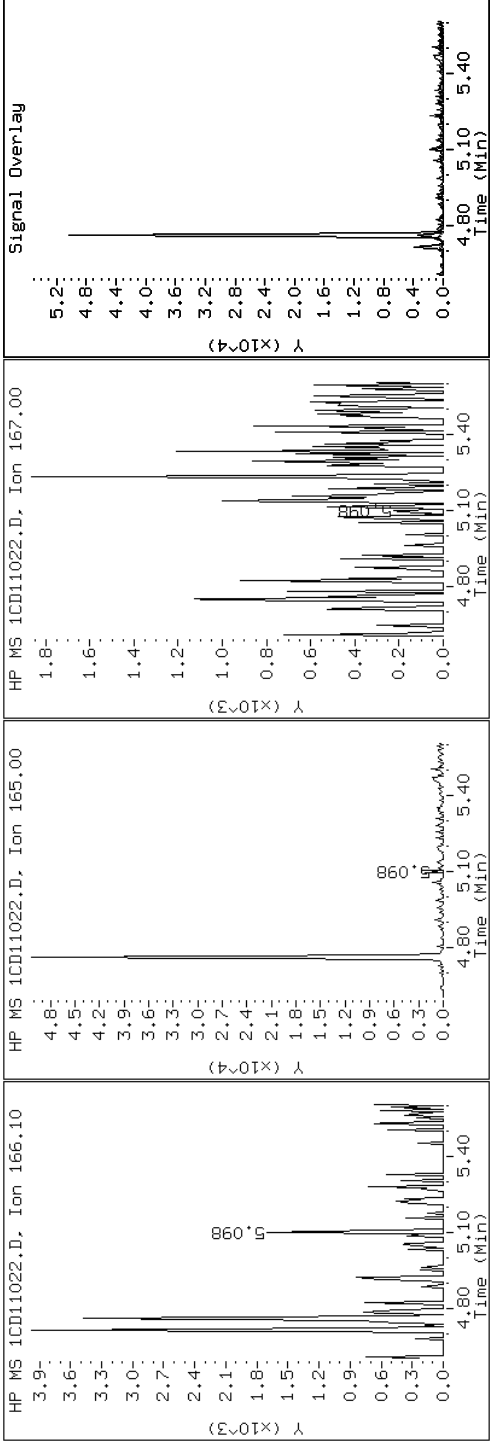
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

9 Fluorene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

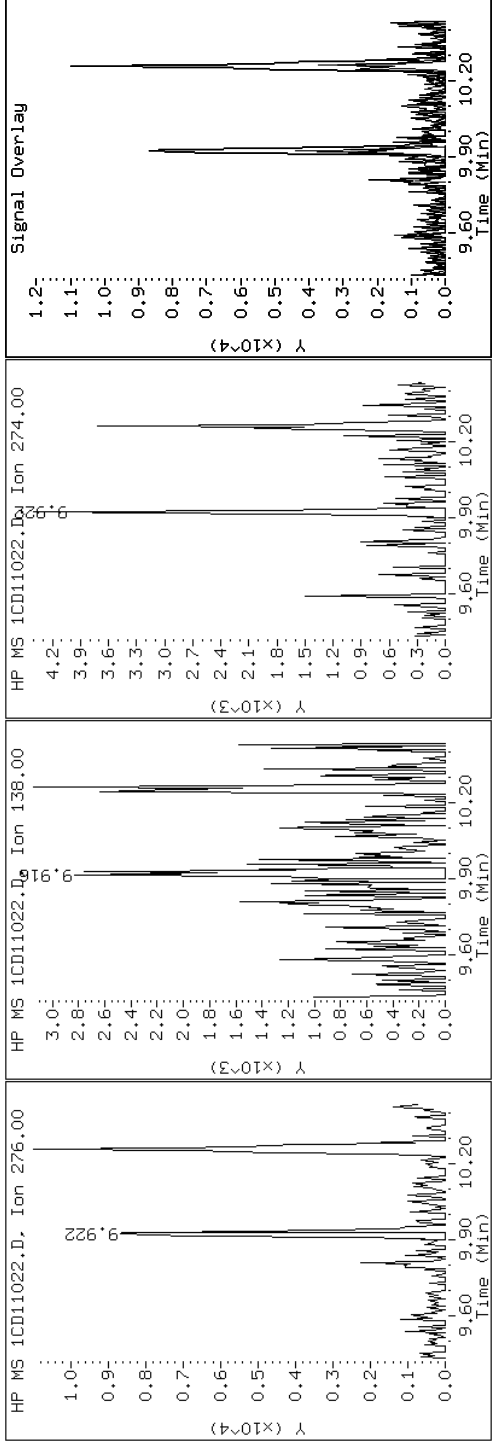
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

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



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

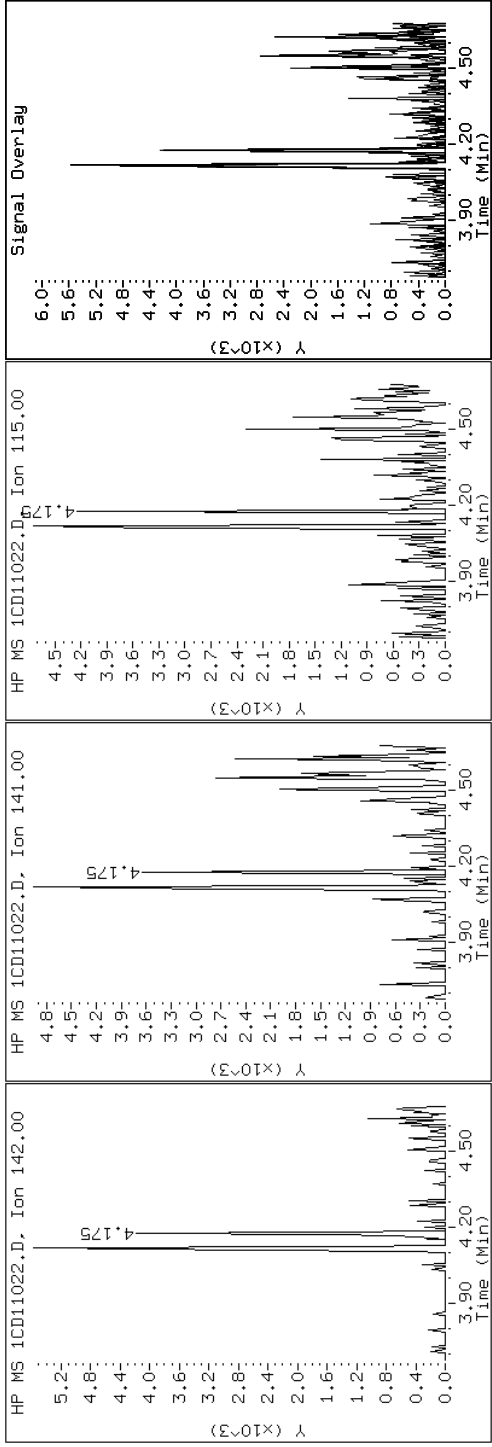
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

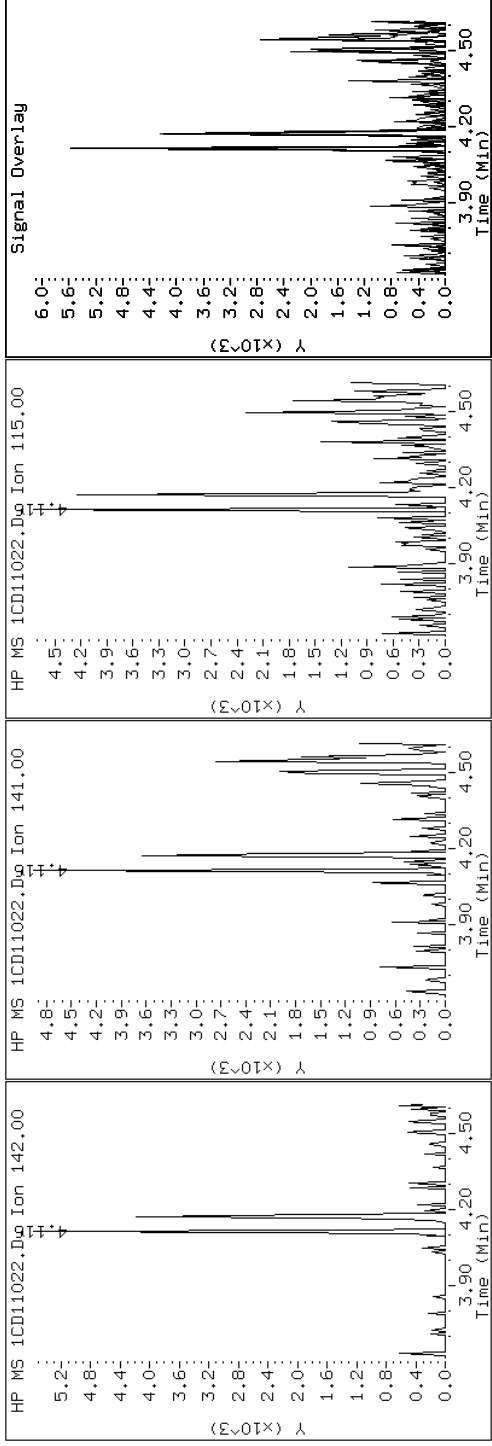
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

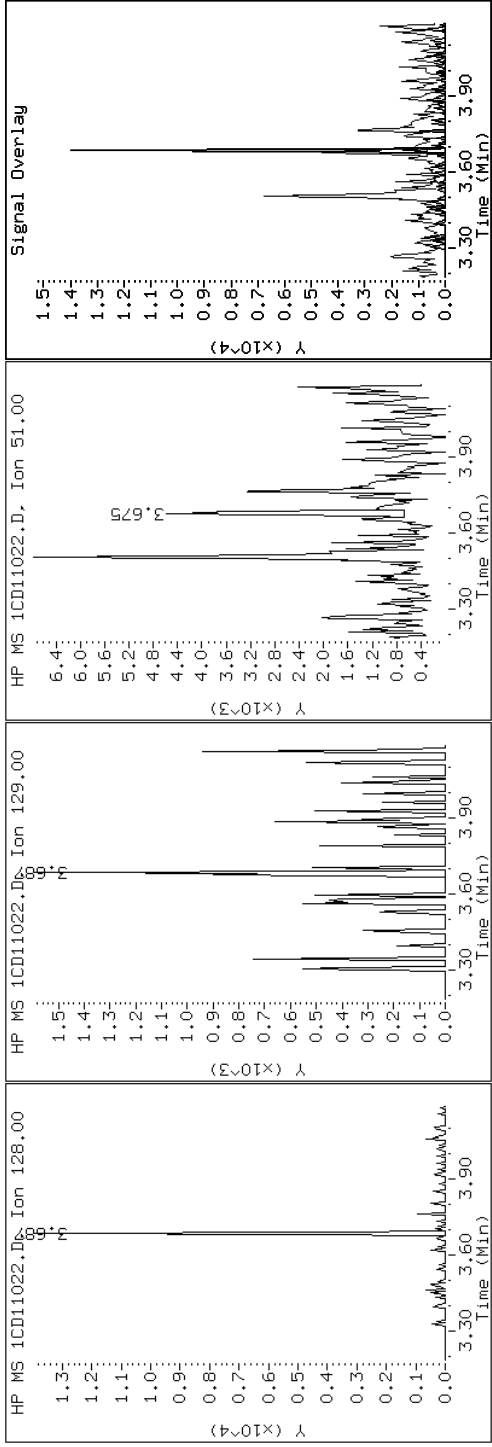
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

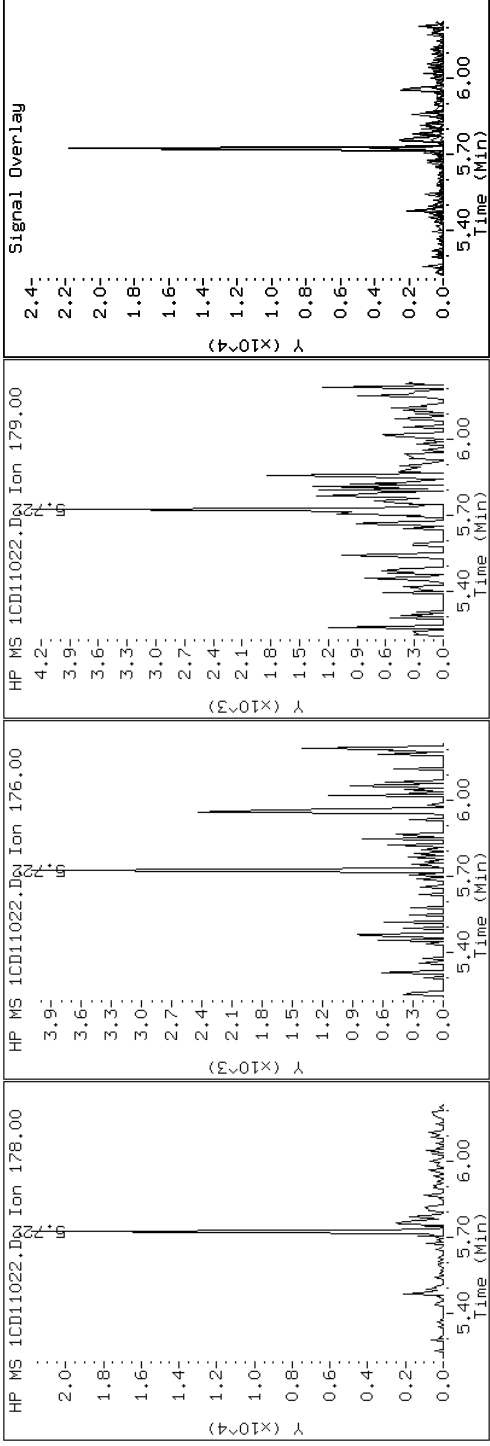
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11022.D

Date: 11-APR-2013 18:13

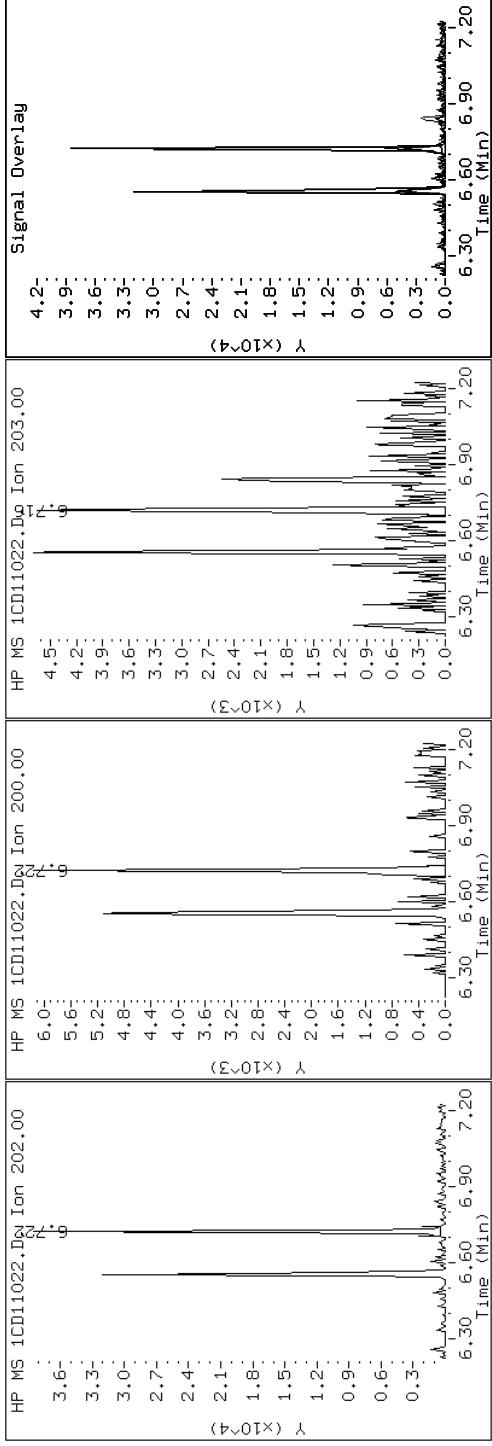
Client ID: CV0497A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-3-a

Operator: SCC

16 Pyrene

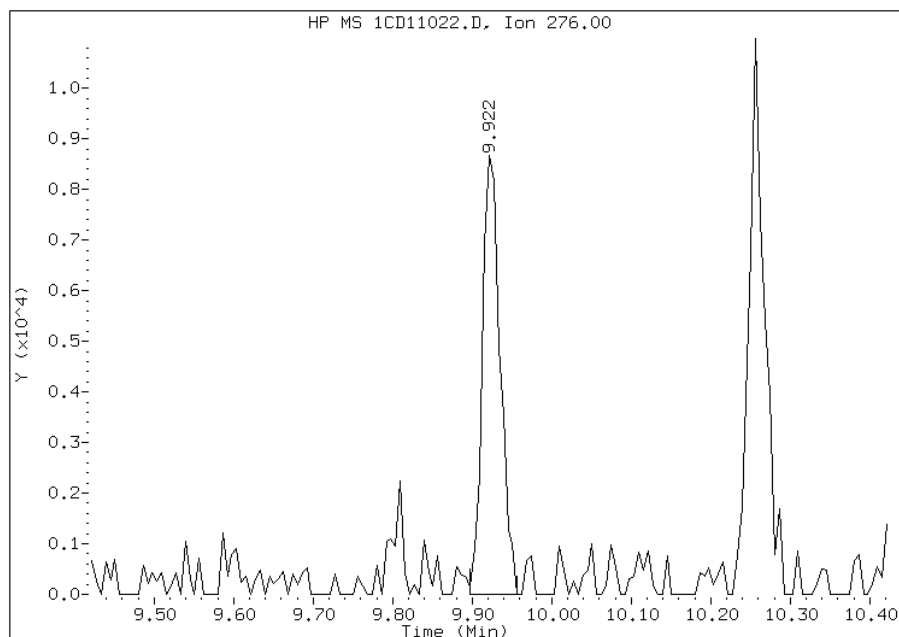


Manual Integration Report

Data File: 1CD11022.D
Inj. Date and Time: 11-APR-2013 18:13
Instrument ID: BSMC5973.i
Client ID: CV0497A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

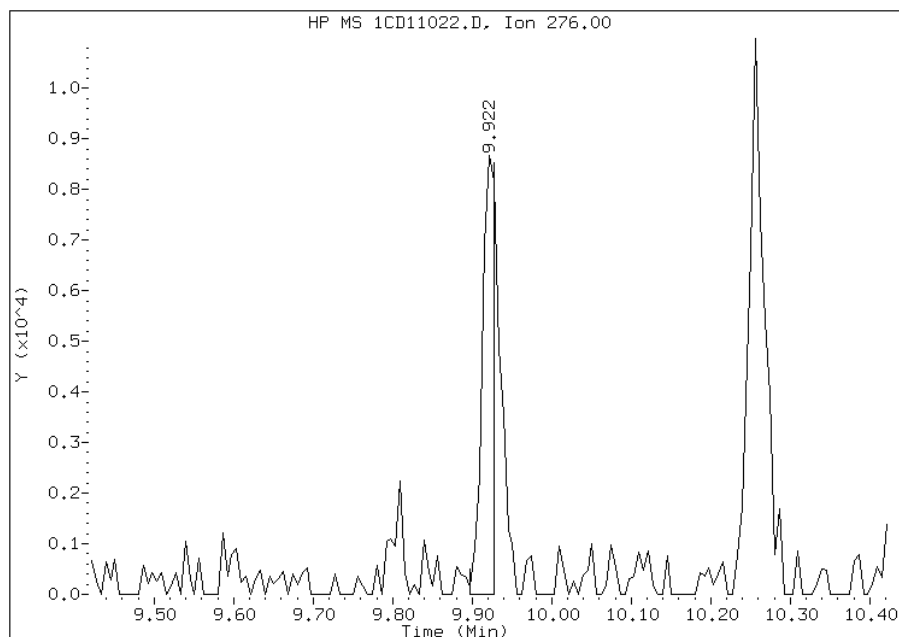
Processing Integration Results

RT: 9.92
Response: 13347
Amount: 2
Conc: 224



Manual Integration Results

RT: 9.92
Response: 9571
Amount: 1
Conc: 183



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0497B-CS-SP Lab Sample ID: 680-89038-4
 Matrix: Solid Lab File ID: 1CD11023.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:20
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.03(g) Date Analyzed: 04/11/2013 18:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 43.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	9.1	J	71	8.9
120-12-7	Anthracene	15	U	15	7.4
56-55-3	Benzo[a]anthracene	14	U	14	6.9
50-32-8	Benzo[a]pyrene	25		18	9.2
205-99-2	Benzo[b]fluoranthene	35		22	11
191-24-2	Benzo[g,h,i]perylene	26	J	35	7.8
207-08-9	Benzo[k]fluoranthene	13	J	14	6.4
218-01-9	Chrysene	33		16	8.0
53-70-3	Dibenz(a,h)anthracene	35	U	35	7.3
206-44-0	Fluoranthene	44		35	7.1
86-73-7	Fluorene	35	U	35	7.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		35	13
90-12-0	1-Methylnaphthalene	43	J	71	7.8
91-57-6	2-Methylnaphthalene	150		71	13
91-20-3	Naphthalene	120		71	7.8
85-01-8	Phenanthrene	14	U	14	6.9
129-00-0	Pyrene	36		35	6.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11023.D
 Lab Smp Id: 680-89038-A-4-A Client Smp ID: CV0497B-CS-SP
 Inj Date : 11-APR-2013 18:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-4-a
 Misc Info : 680-89038-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	15.030	Weight Extracted
M	43.727	% 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		3.674	3.675	(1.000)	285540	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	217593	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	384800	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	27326	4.97802	588.5652
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	432770	40.0000	
* 23 Perylene-d12	264		8.798	8.798	(1.000)	418557	40.0000	
2 Naphthalene	128		3.686	3.687	(1.003)	7946	1.02946	121.7162
3 2-Methylnaphthalene	142		4.115	4.115	(1.120)	4950	1.23162	145.6176
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	1788	0.36265	42.8774(Q)
5 Acenaphthylene	152		4.674	4.675	(0.981)	709	0.07690	9.0916(Q)
13 Carbazole	167		5.862	5.863	(1.028)	1044	0.10034	11.8638
15 Fluoranthene	202		6.551	6.557	(1.148)	4681	0.37499	44.3361
16 Pyrene	202		6.721	6.722	(0.880)	3799	0.30856	36.4824
19 Chrysene	228		7.656	7.663	(1.002)	3377	0.27895	32.9804

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	3129	0.29598	34.9944
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.964)	1309	0.10943	12.9377
22 Benzo(a)pyrene	252	8.739	8.751	(0.993)	2272	0.20791	24.5818(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	2917	0.90810	107.3671(M)
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	2263	0.22094	26.1221

QC Flag Legend

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

Data File: 1CD11023.D

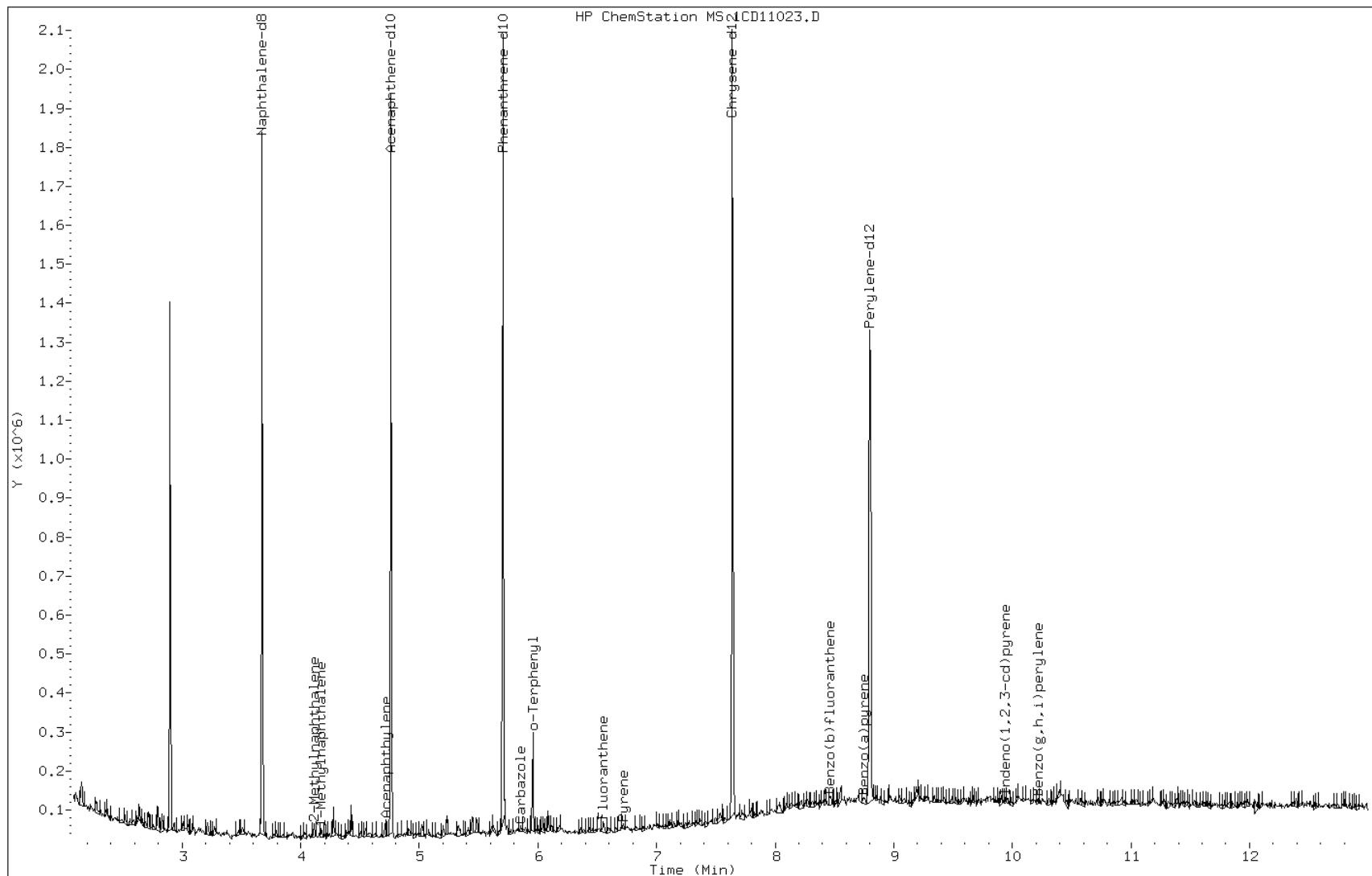
Date: 11-APR-2013 18:31

Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

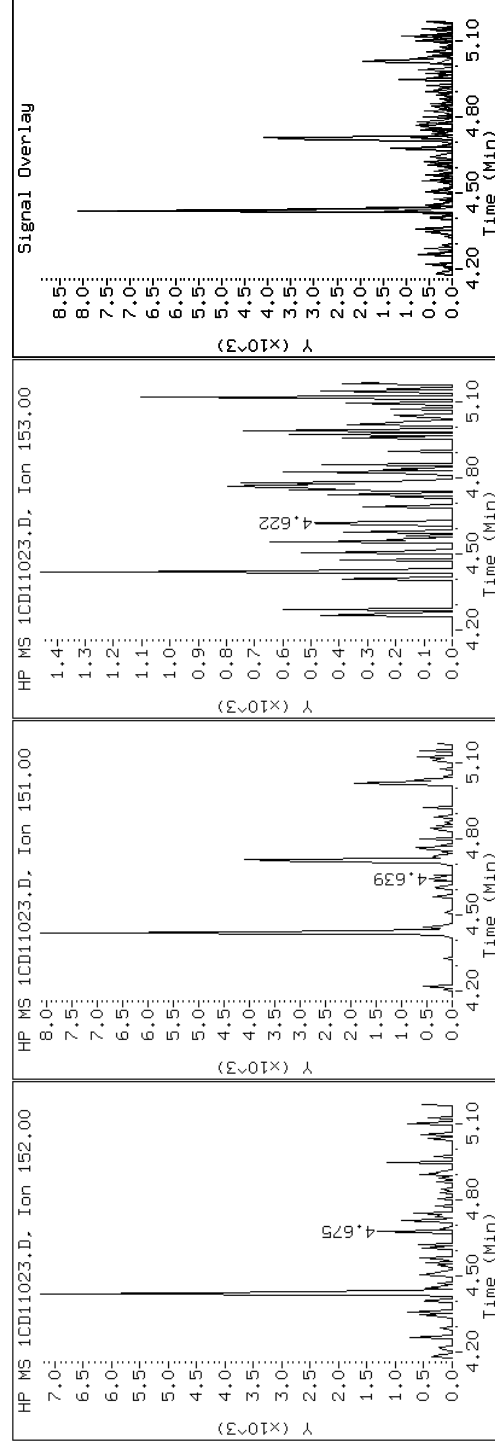
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

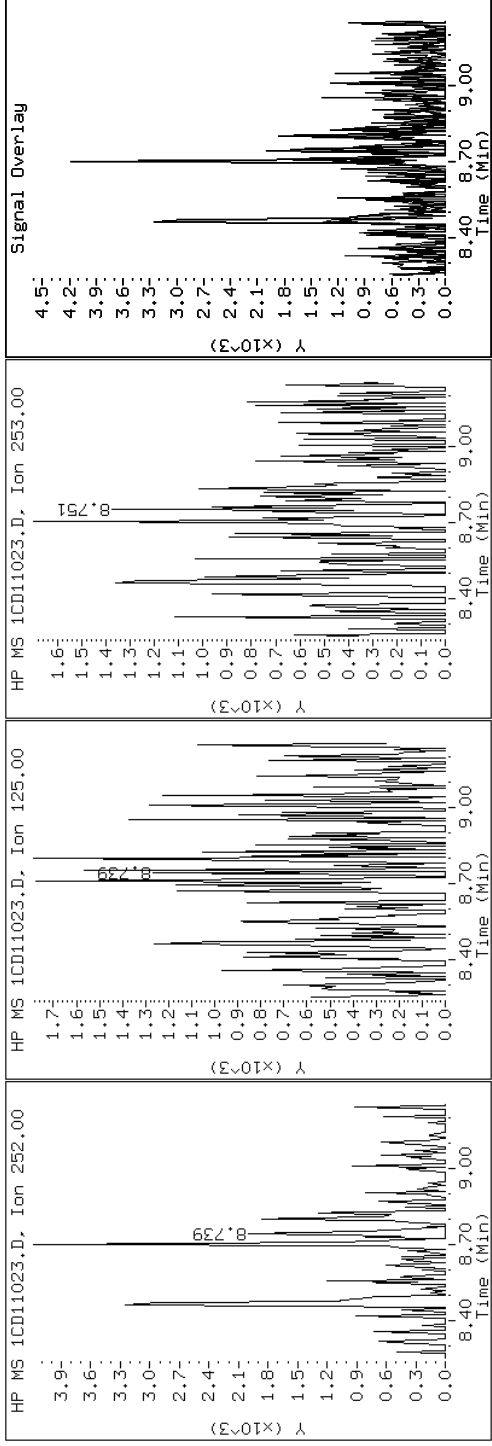
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

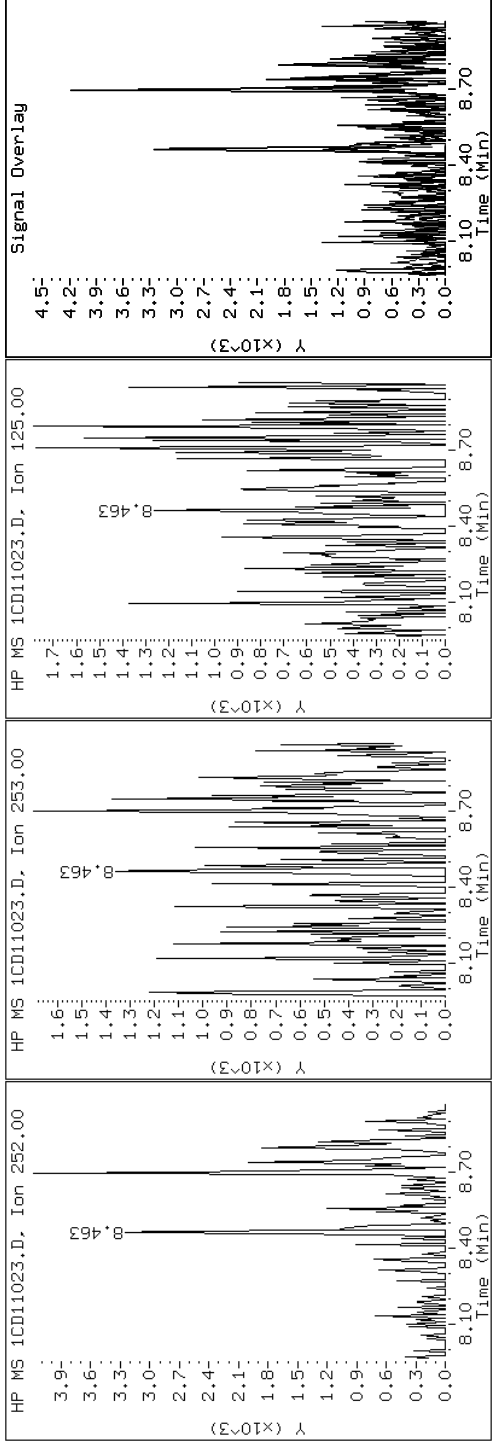
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

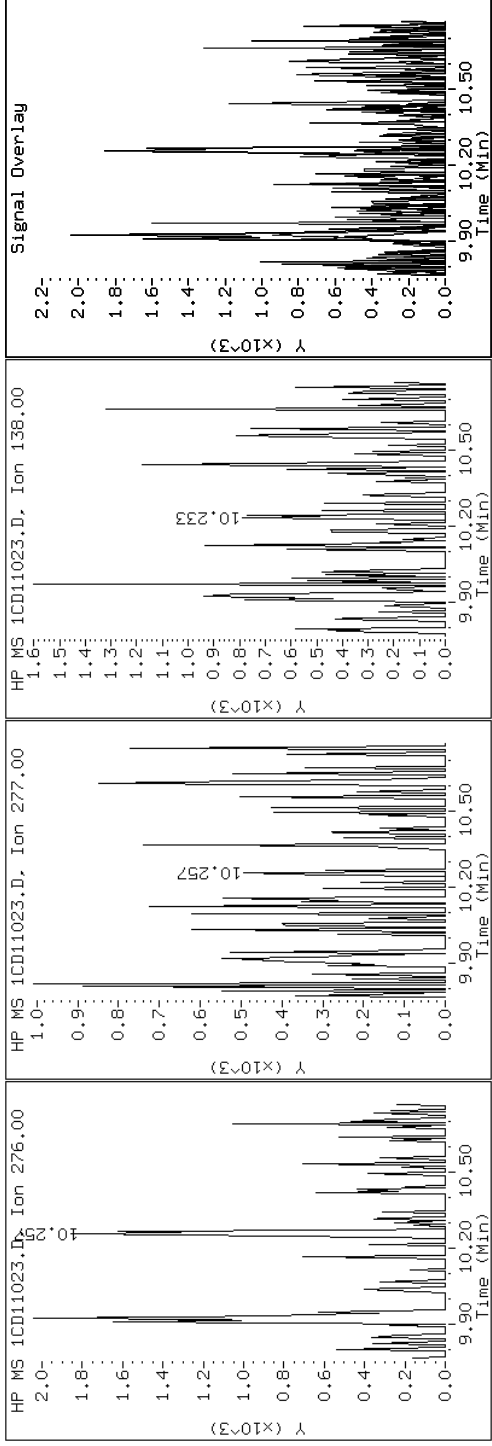
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

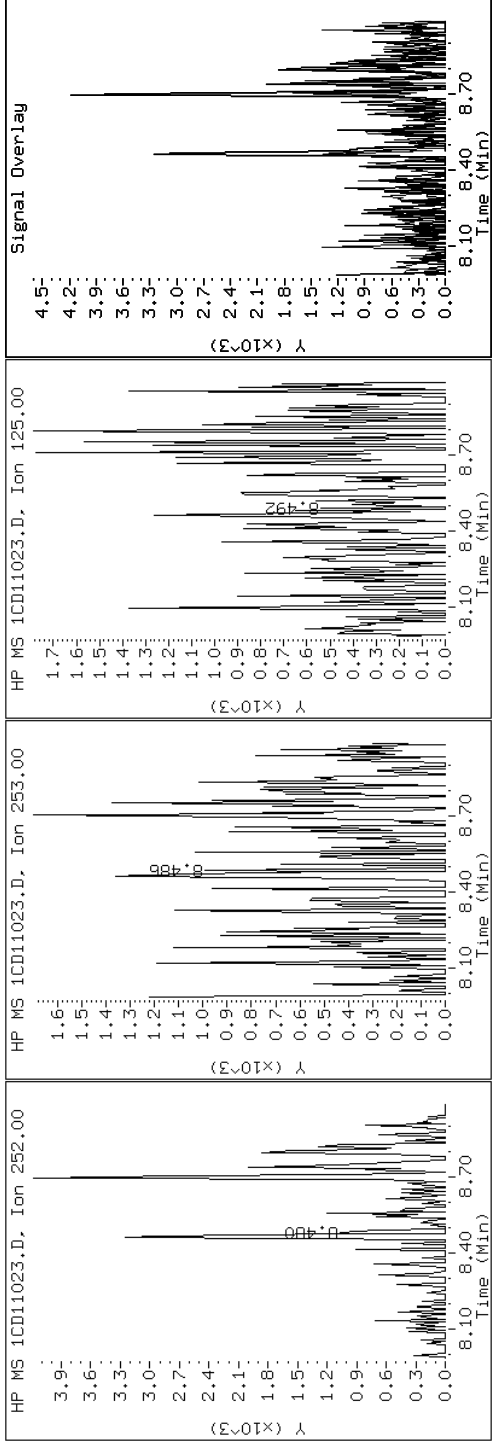
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

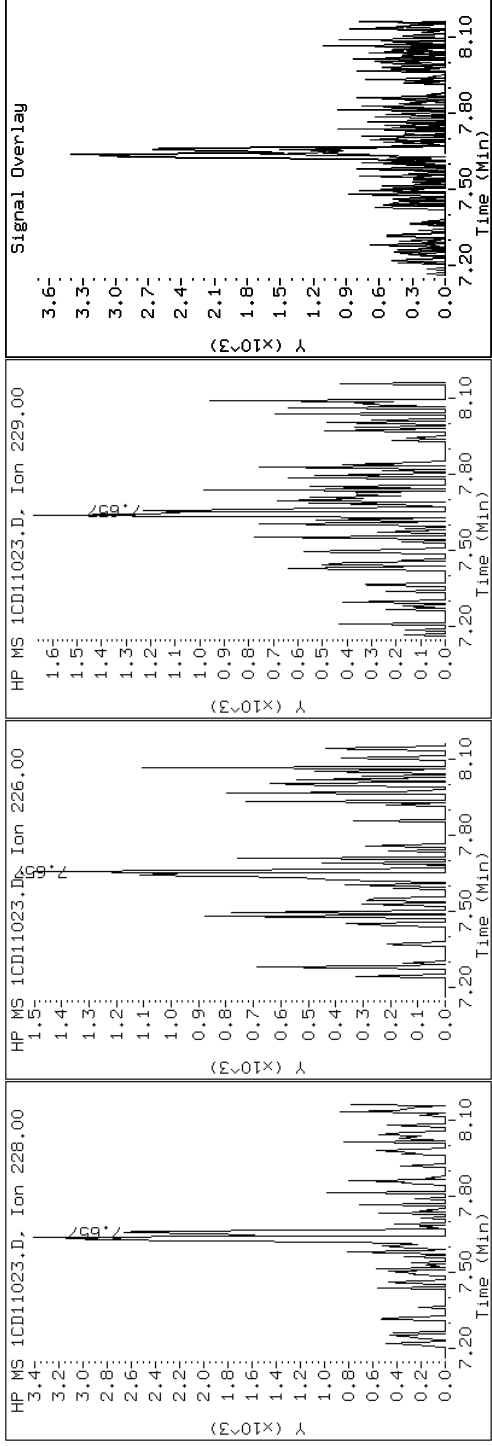
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

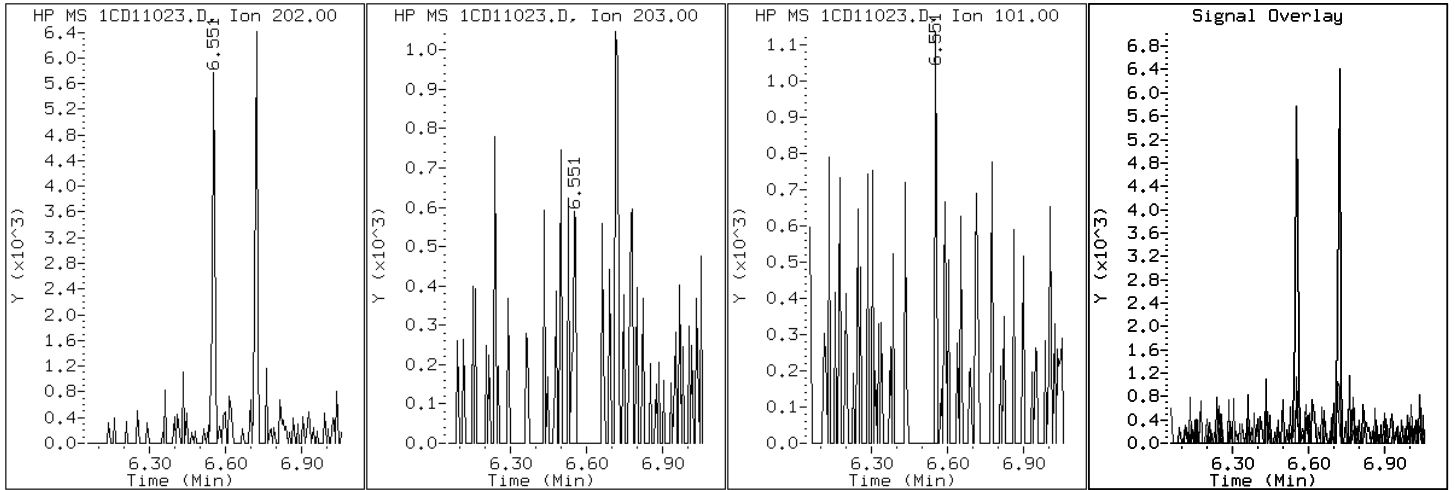
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

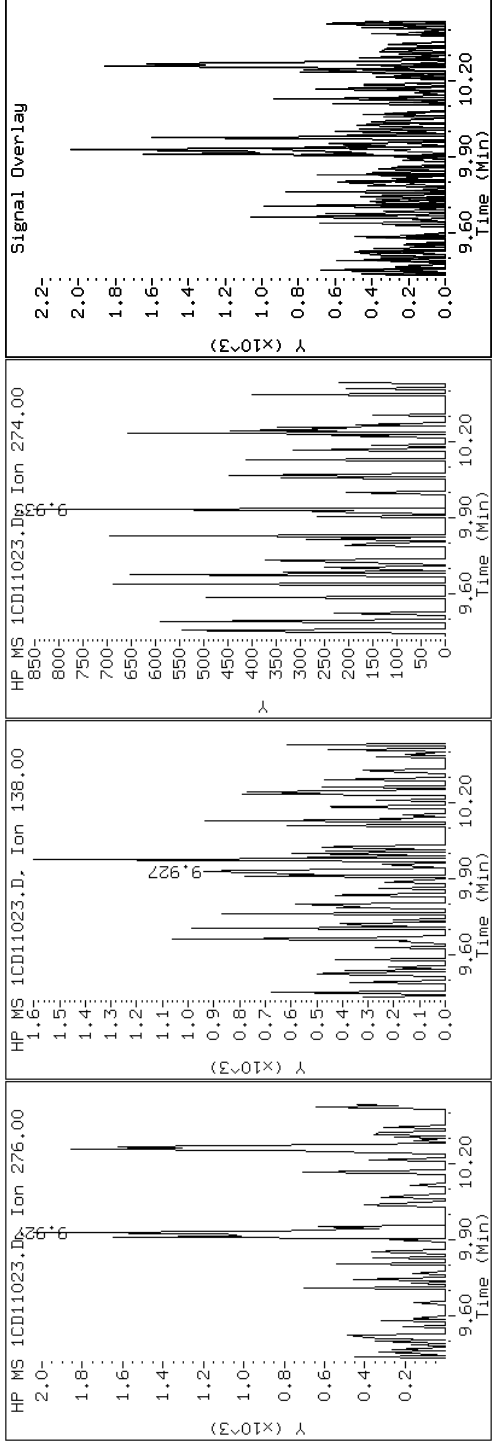
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

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



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

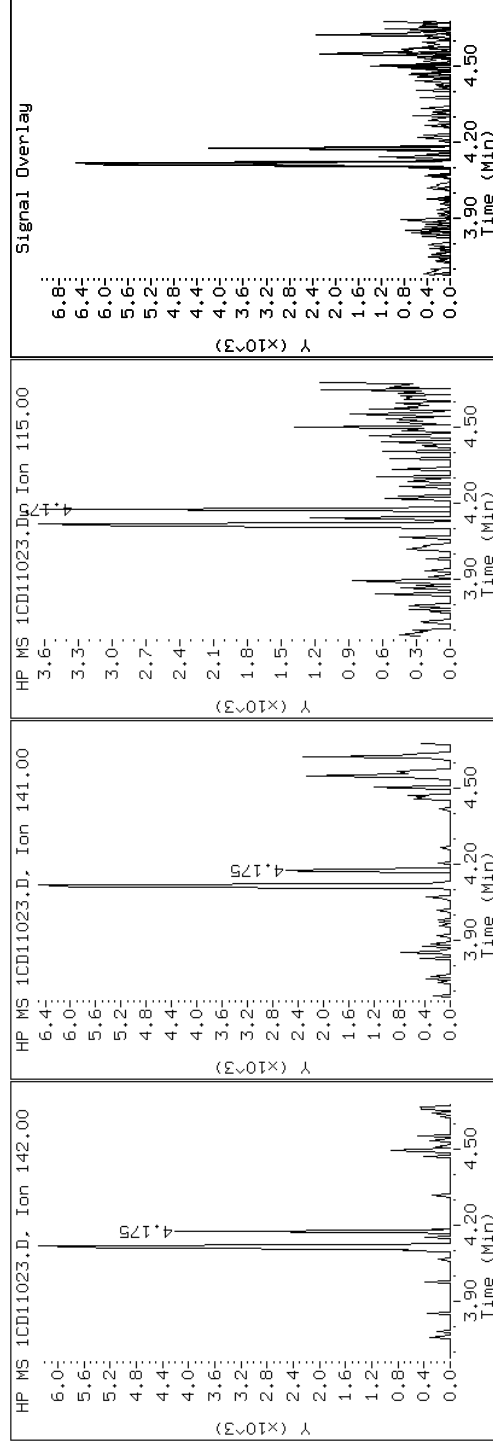
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

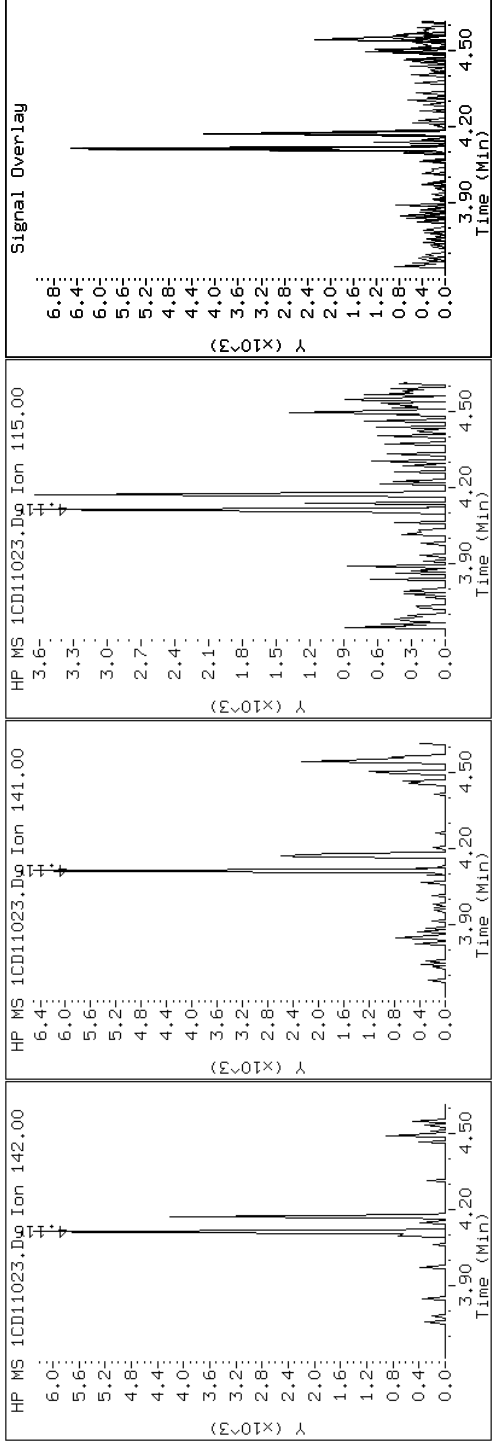
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

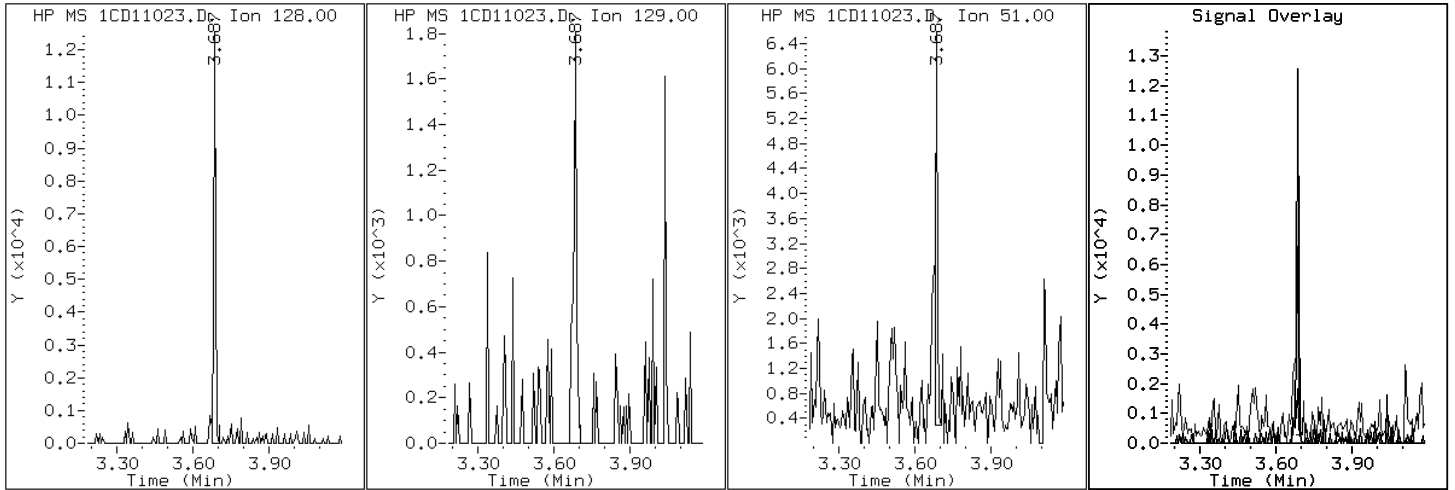
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1CD11023.D

Date: 11-APR-2013 18:31

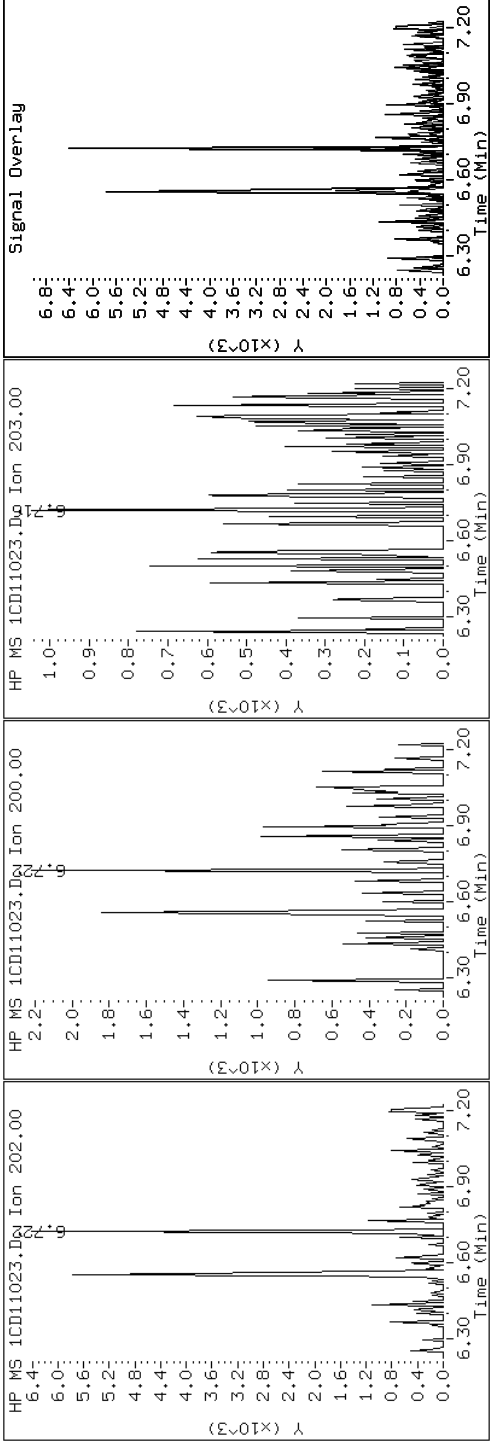
Client ID: CV0497B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-4-a

Operator: SCC

16 Pyrene

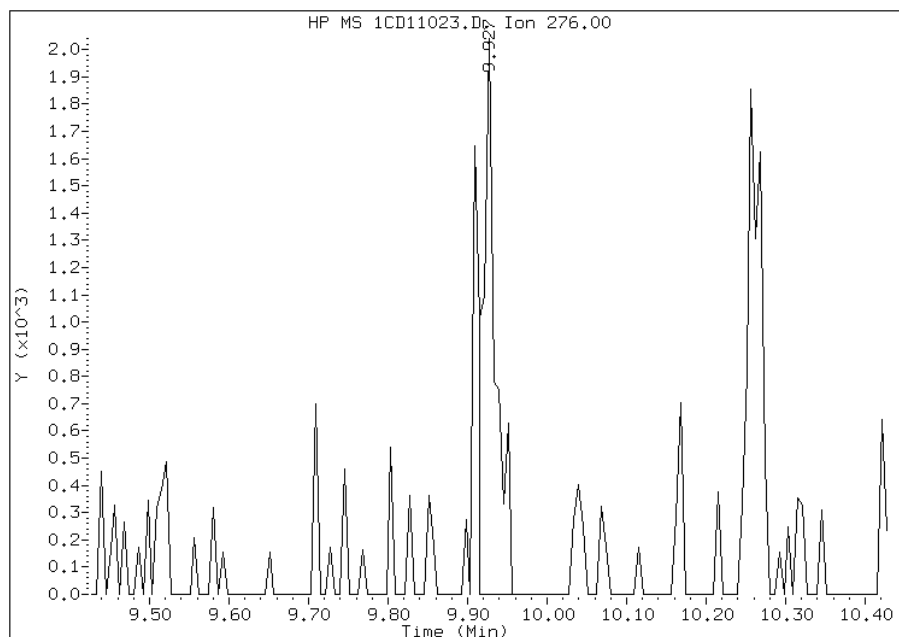


Manual Integration Report

Data File: 1CD11023.D
Inj. Date and Time: 11-APR-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0497B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

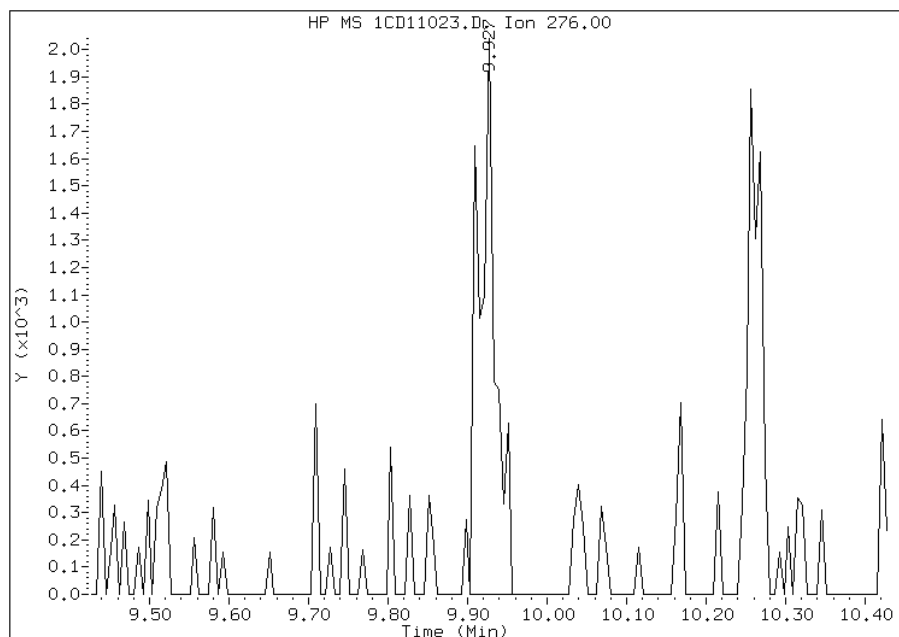
Processing Integration Results

RT: 9.93
Response: 2344
Amount: 1
Conc: 101



Manual Integration Results

RT: 9.93
Response: 2917
Amount: 1
Conc: 107



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:13
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV1311A-CS-SP Lab Sample ID: 680-89038-5
 Matrix: Solid Lab File ID: 1CD11024.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:25
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 14.94 (g) Date Analyzed: 04/11/2013 18:49
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 34.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 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	83		51	26
56-55-3	Benzo[a]anthracene	220		49	24
50-32-8	Benzo[a]pyrene	240		63	32
205-99-2	Benzo[b]fluoranthene	350		74	37
191-24-2	Benzo[g,h,i]perylene	280		120	27
207-08-9	Benzo[k]fluoranthene	200		49	22
218-01-9	Chrysene	450		55	27
53-70-3	Dibenz(a,h)anthracene	120	U	120	25
206-44-0	Fluoranthene	390		120	24
86-73-7	Fluorene	29	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	440		120	43
90-12-0	1-Methylnaphthalene	130	J	240	27
91-57-6	2-Methylnaphthalene	300		240	43
91-20-3	Naphthalene	110	J	240	27
85-01-8	Phenanthrene	340		49	24
129-00-0	Pyrene	350		120	23

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11024.D
 Lab Smp Id: 680-89038-A-5-A Client Smp ID: CV1311A-CS-SP
 Inj Date : 11-APR-2013 18:49
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-5-a
 Misc Info : 680-89038-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	14.940	Weight Extracted
M	33.958	% 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	3.674	3.675	(1.000)	291490	40.0000		
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	207837	40.0000		
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	370545	40.0000		
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	8179	2.02259	819.9739	
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	401067	40.0000		
* 23 Perylene-d12	264	8.798	8.798	(1.000)	399669	40.0000		
2 Naphthalene	128	3.686	3.687	(1.003)	2192	0.27819	112.7813(Q)	
3 2-Methylnaphthalene	142	4.110	4.115	(1.118)	2455	0.73858	299.4275	
4 1-Methylnaphthalene	142	4.174	4.175	(1.136)	1667	0.33121	134.2744	
9 Fluorene	166	5.098	5.104	(1.070)	490	0.07255	29.4120(Q)	
11 Phenanthrene	178	5.721	5.722	(1.003)	9112	0.84448	342.3588	
12 Anthracene	178	5.757	5.757	(1.009)	2197	0.20423	82.7974	
15 Fluoranthene	202	6.551	6.557	(1.148)	11613	0.96609	391.6617	
16 Pyrene	202	6.721	6.722	(0.880)	9903	0.86793	351.8640	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.633	7.634 (0.999)		6050	0.53344	216.2621
19 Chrysene	228	7.656	7.663 (1.002)		12473	1.11173	450.7027
20 Benzo(b)fluoranthene	252	8.462	8.468 (0.962)		8719	0.86373	350.1612
21 Benzo(k)fluoranthene	252	8.480	8.486 (0.964)		5705	0.49945	202.4797(Q)
22 Benzo(a)pyrene	252	8.745	8.751 (0.994)		6186	0.59283	240.3384
24 Indeno(1,2,3-cd)pyrene	276	9.915	9.933 (1.127)		4735	1.09617	444.3937(MH)
26 Benzo(g,h,i)perylene	276	10.256	10.269 (1.166)		6769	0.69210	280.5802

QC Flag Legend

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

Data File: 1CD11024.D

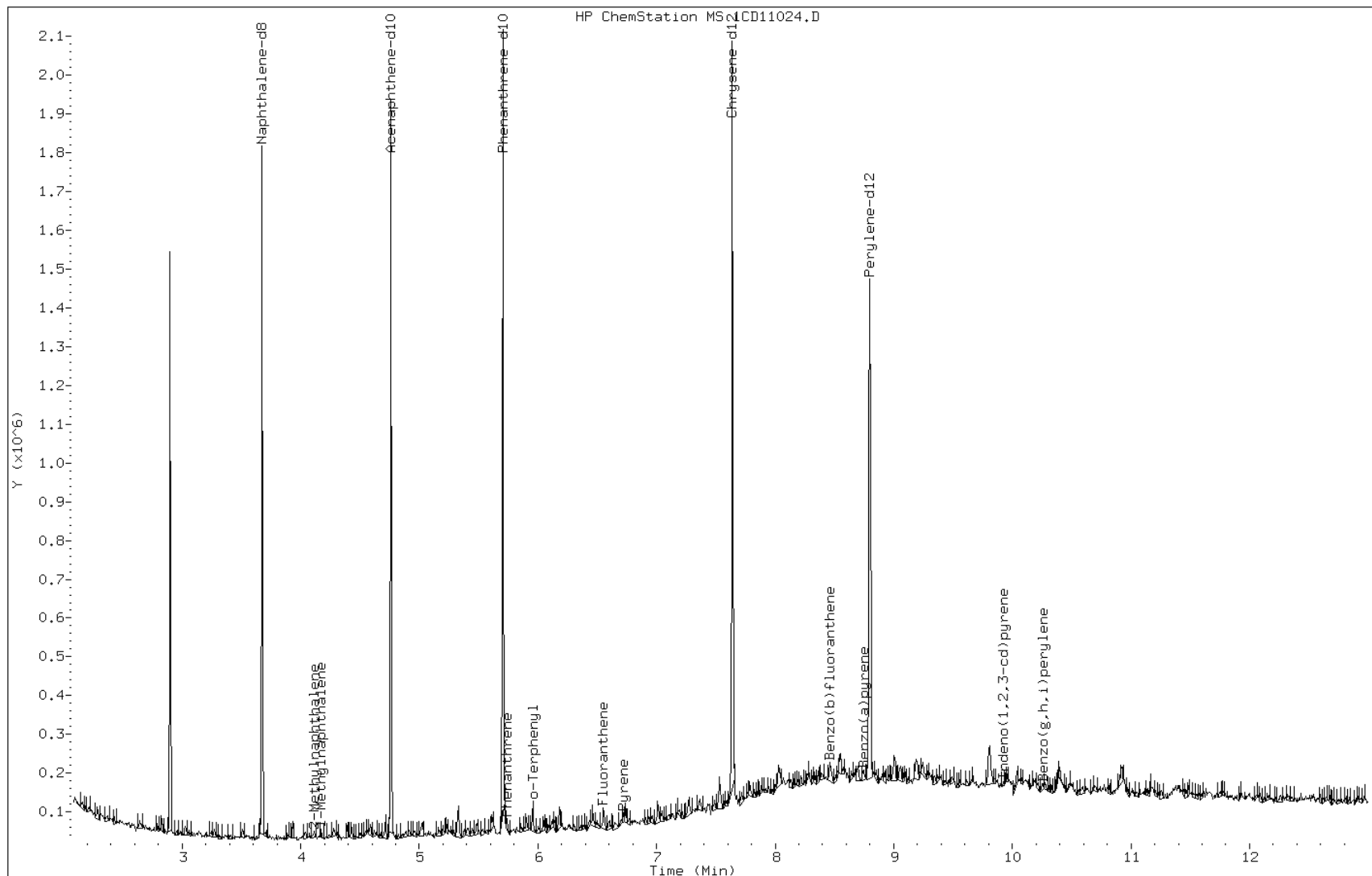
Date: 11-APR-2013 18:49

Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

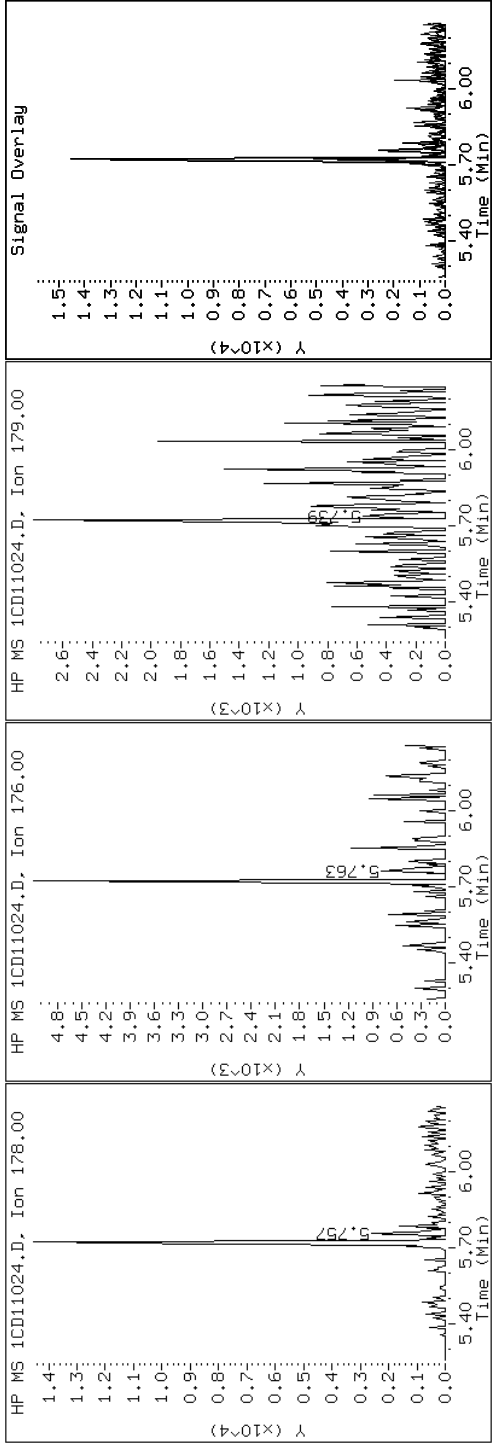
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

12 Anthracene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

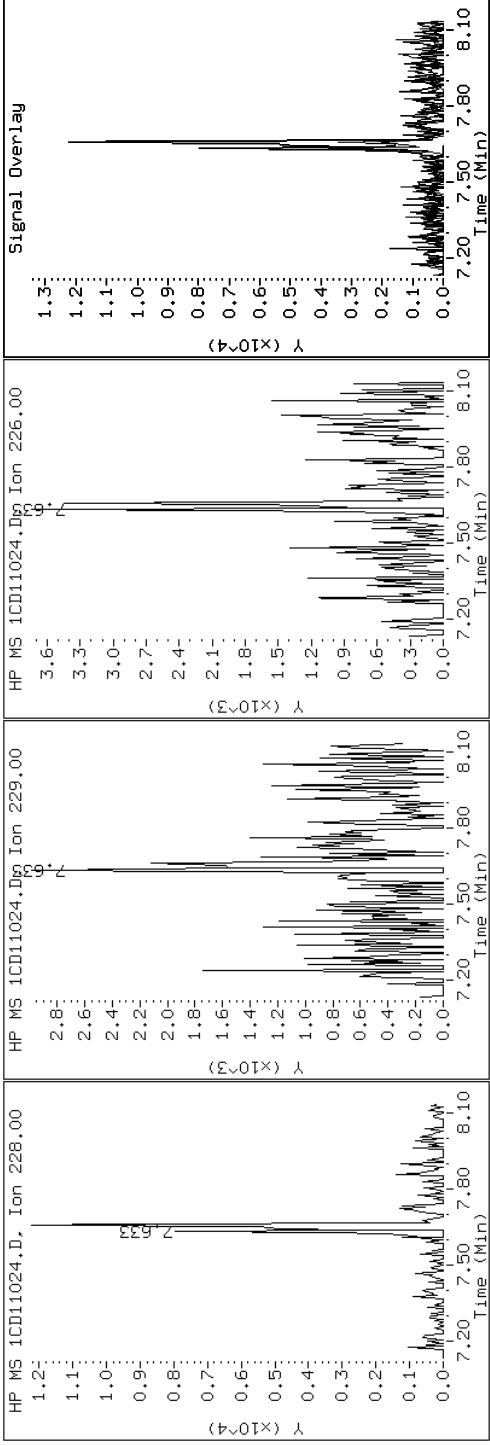
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

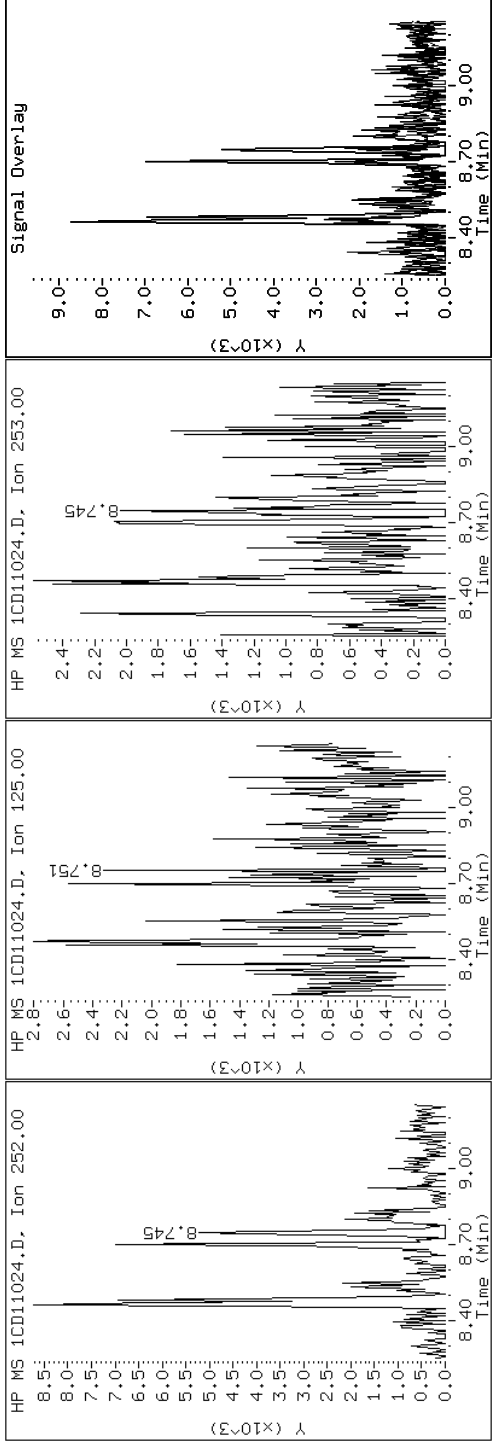
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

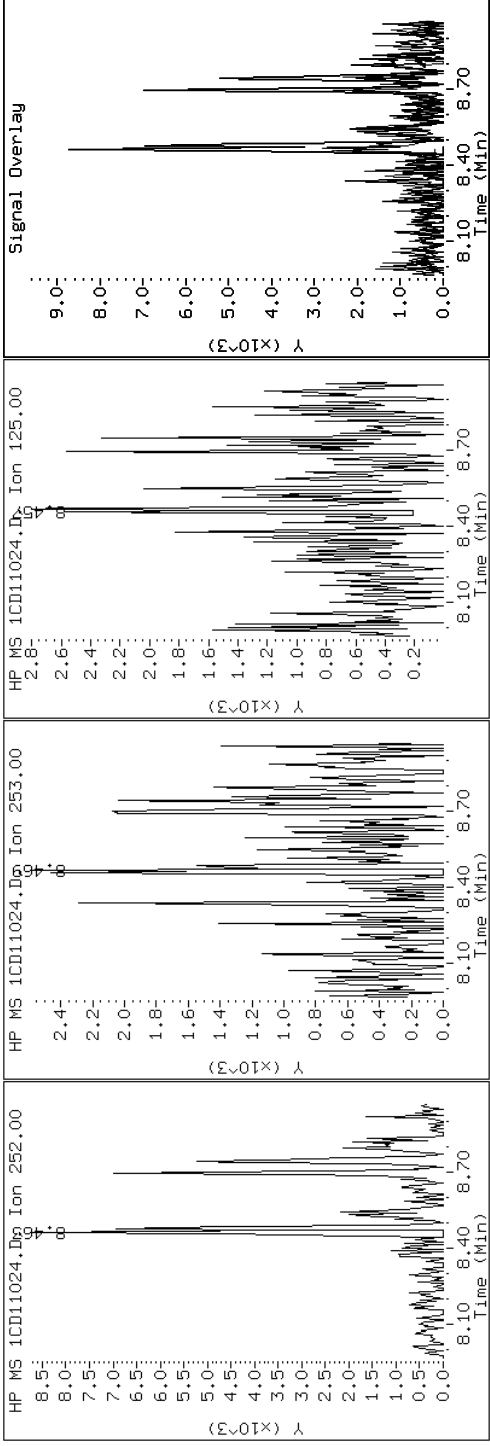
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

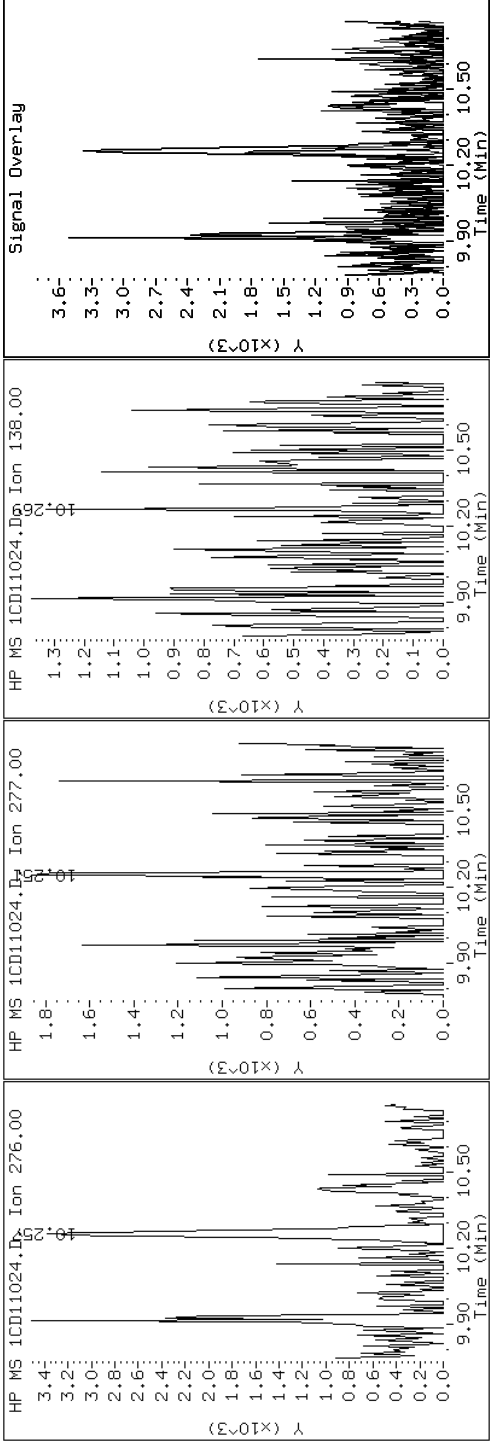
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

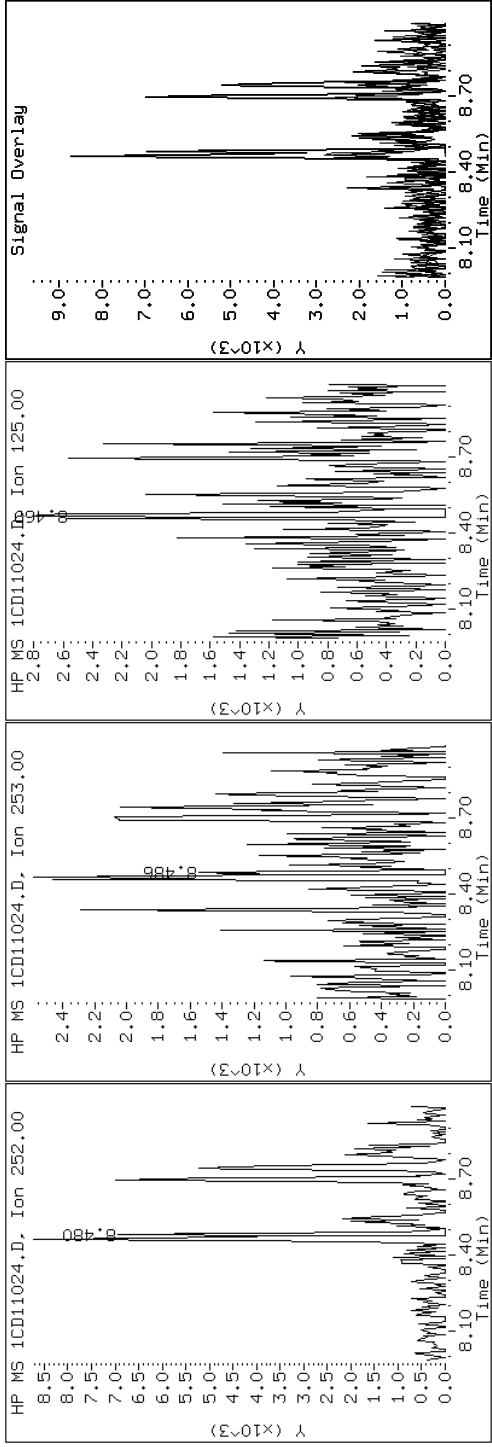
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

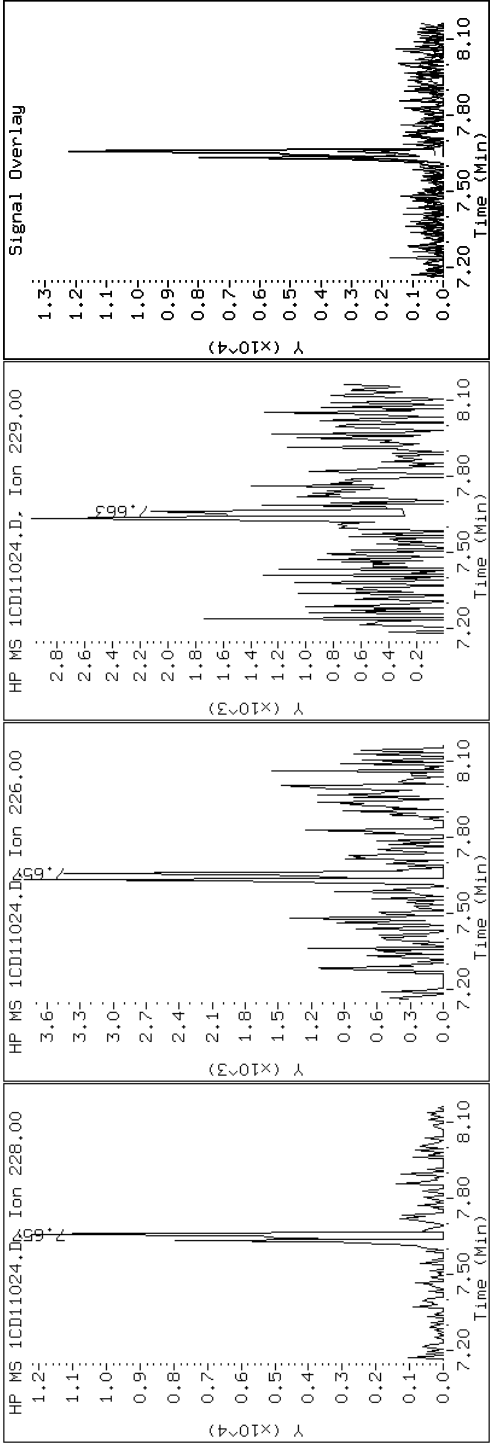
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

19 Chrysene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

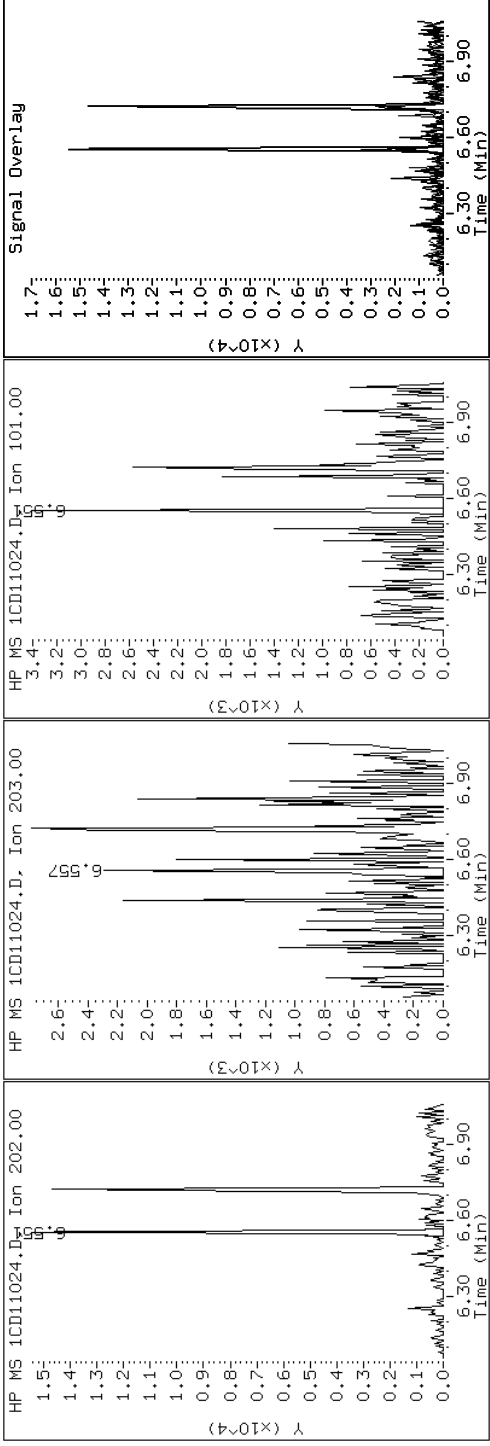
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

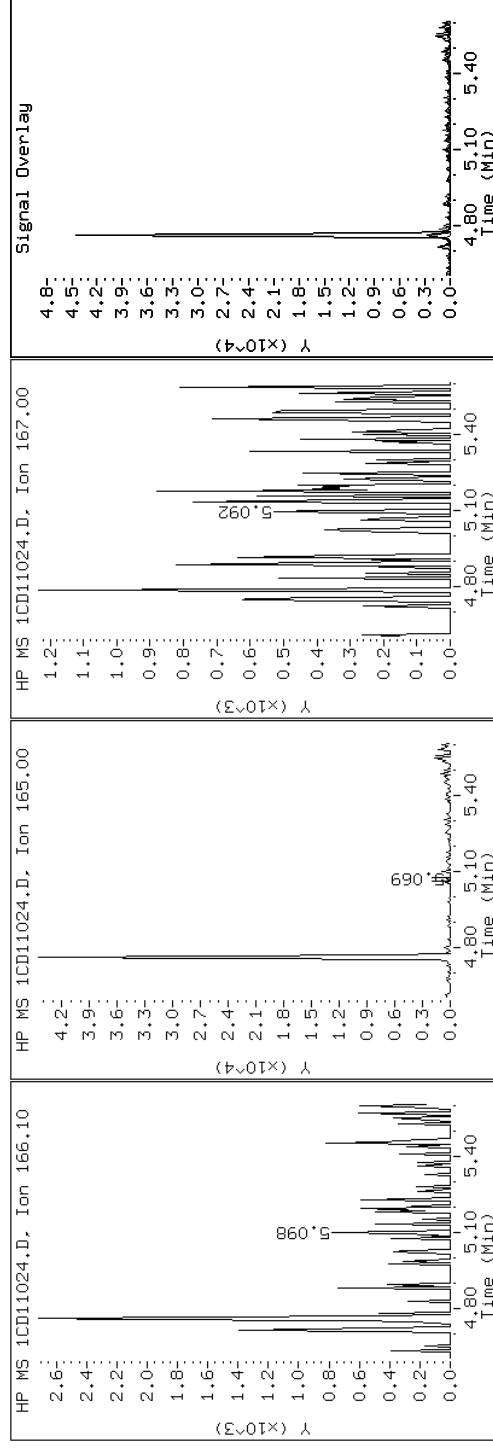
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

9 Fluorene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

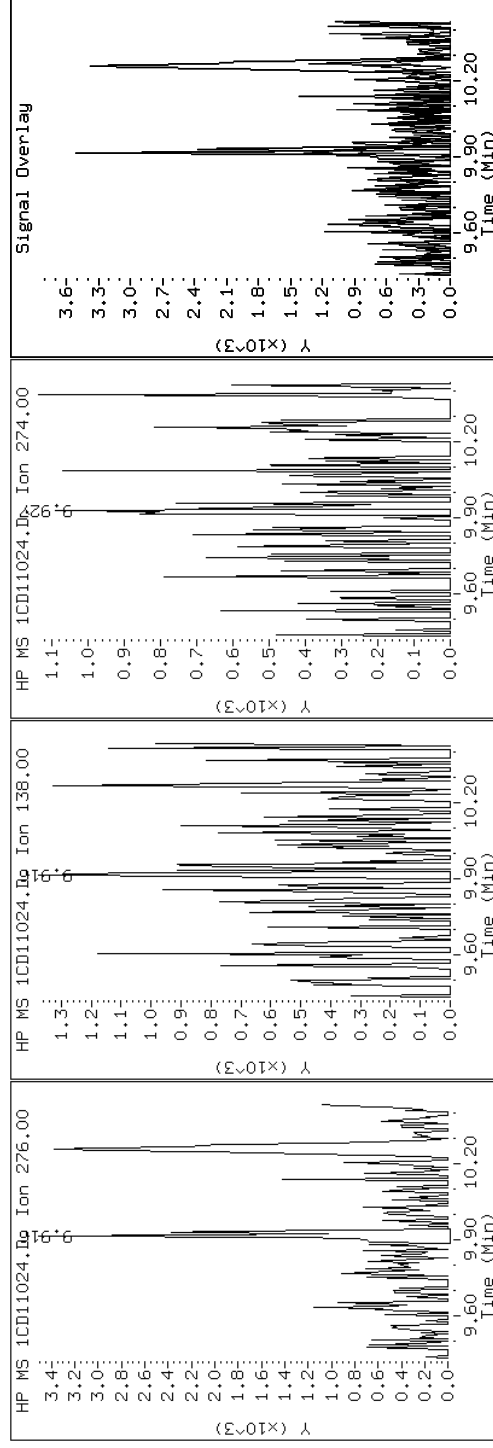
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

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



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

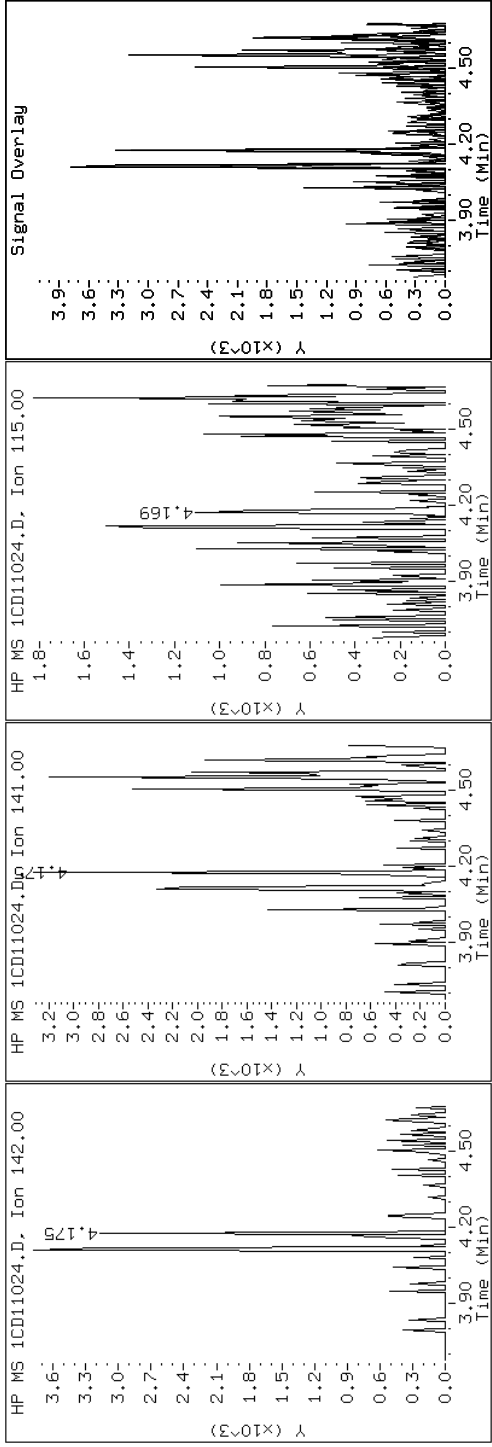
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

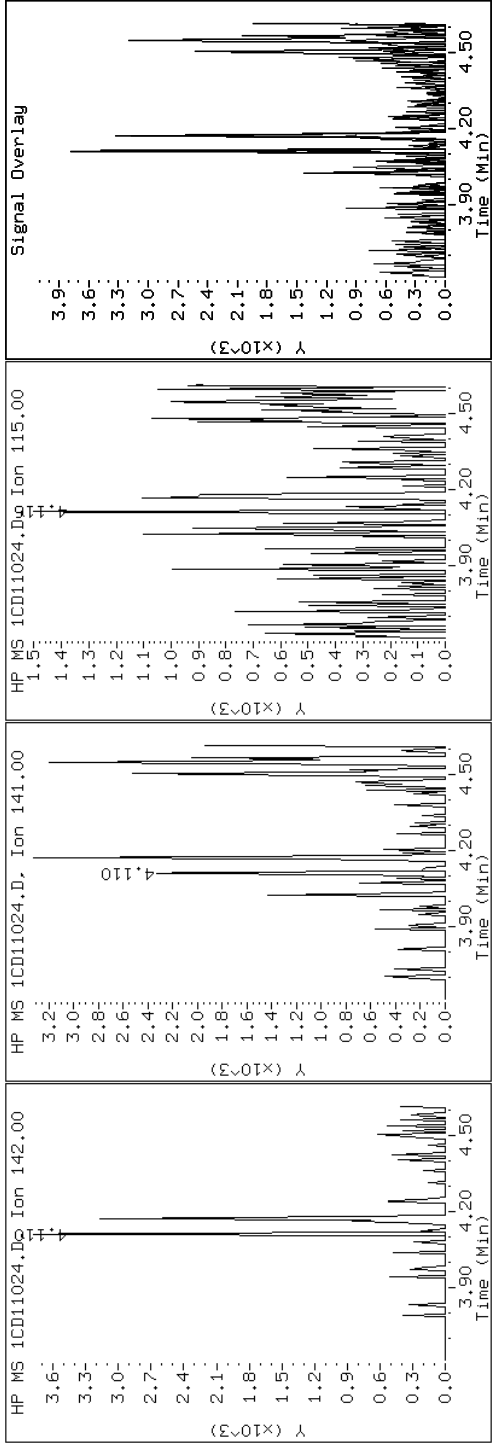
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

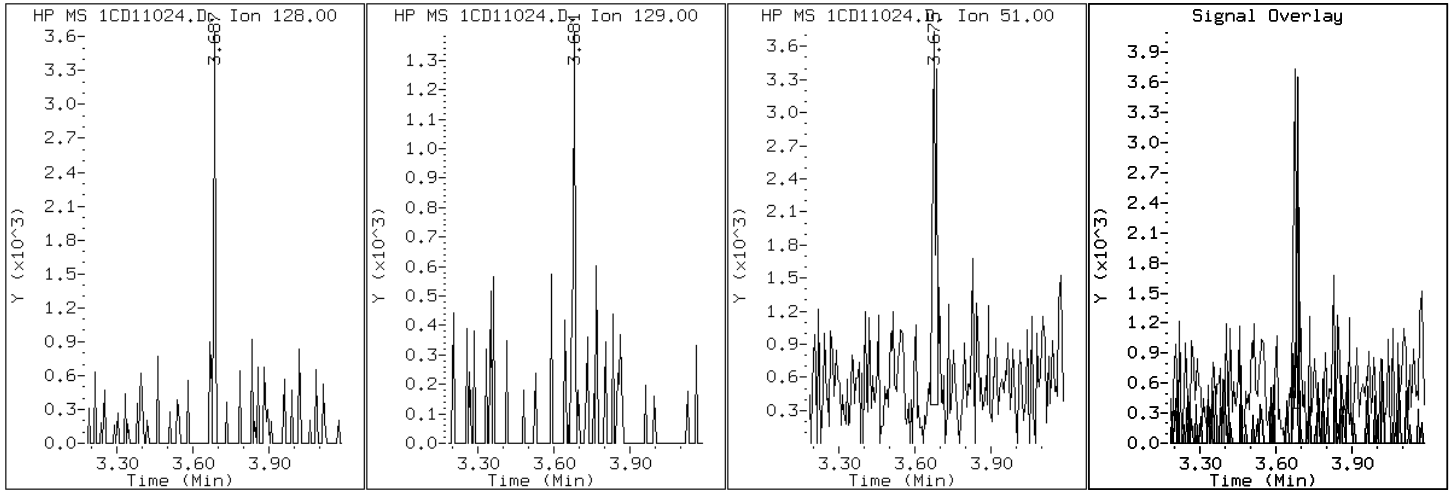
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

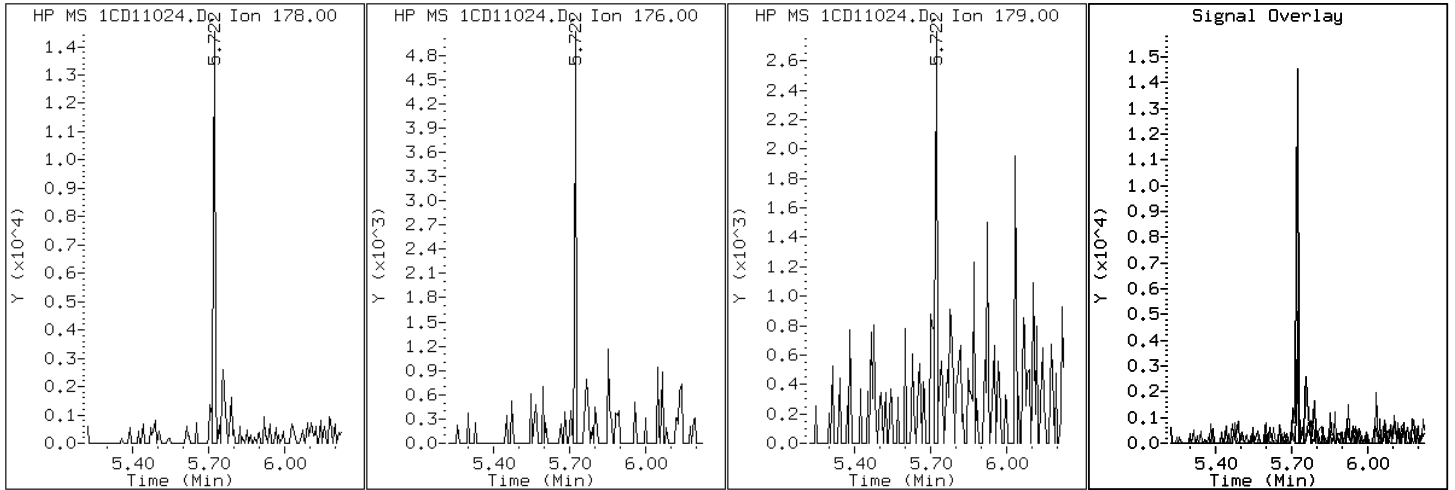
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11024.D

Date: 11-APR-2013 18:49

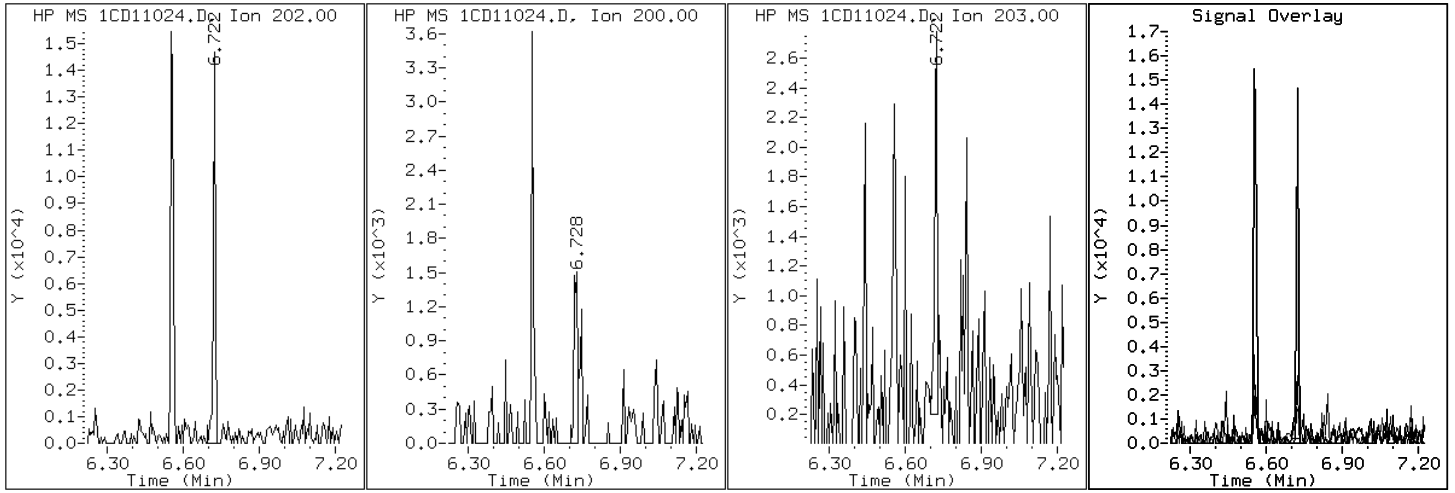
Client ID: CV1311A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-5-a

Operator: SCC

16 Pyrene

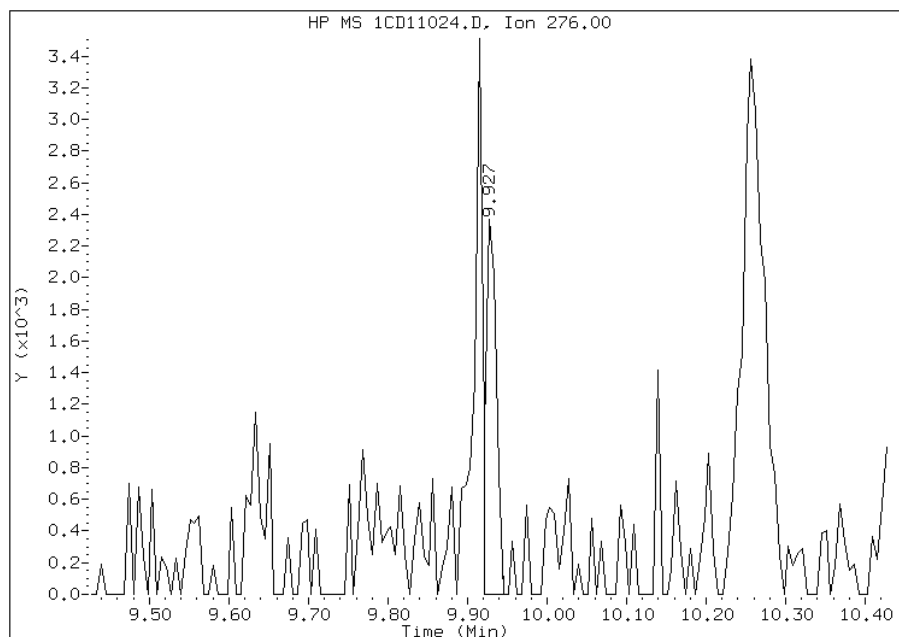


Manual Integration Report

Data File: 1CD11024.D
Inj. Date and Time: 11-APR-2013 18:49
Instrument ID: BSMC5973.i
Client ID: CV1311A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

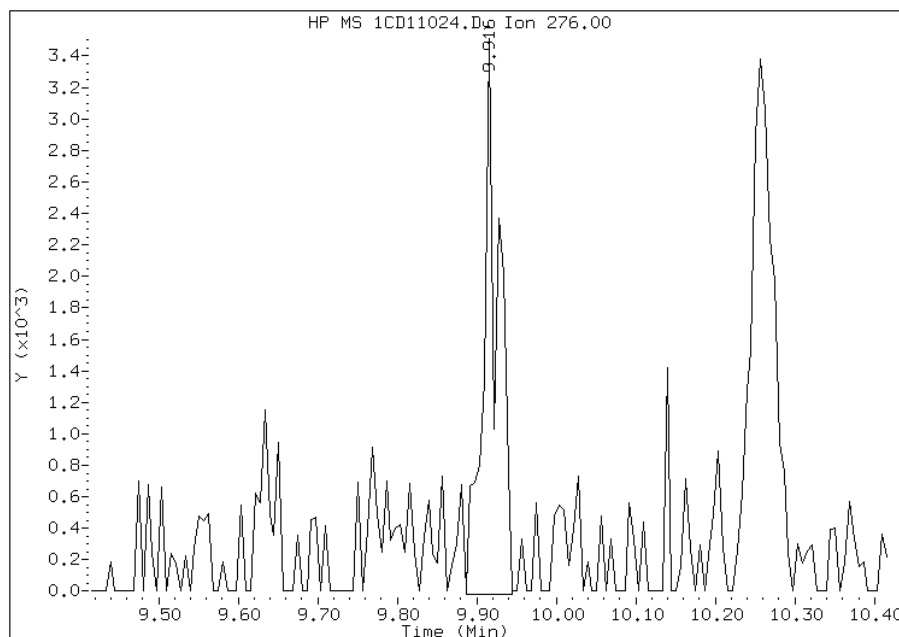
Processing Integration Results

RT: 9.93
Response: 2183
Amount: 1
Conc: 345



Manual Integration Results

RT: 9.92
Response: 4735
Amount: 1
Conc: 444



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:14
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV1311B-CS-SP Lab Sample ID: 680-89038-6
 Matrix: Solid Lab File ID: 1CD12005.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:35
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.06(g) Date Analyzed: 04/12/2013 12:20
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	33
208-96-8	Acenaphthylene	66	U	66	8.3
120-12-7	Anthracene	10	J	14	7.0
56-55-3	Benzo[a]anthracene	45		13	6.5
50-32-8	Benzo[a]pyrene	37		17	8.6
205-99-2	Benzo[b]fluoranthene	65		20	10
191-24-2	Benzo[g,h,i]perylene	41		33	7.3
207-08-9	Benzo[k]fluoranthene	27		13	6.0
218-01-9	Chrysene	51		15	7.5
53-70-3	Dibenz(a,h)anthracene	33	U	33	6.8
206-44-0	Fluoranthene	74		33	6.6
86-73-7	Fluorene	16	J	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		33	12
90-12-0	1-Methylnaphthalene	32	J	66	7.3
91-57-6	2-Methylnaphthalene	72		66	12
91-20-3	Naphthalene	46	J	66	7.3
85-01-8	Phenanthrene	55		13	6.5
129-00-0	Pyrene	54		33	6.2

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\1C041213.b\1CD12005.D
 Lab Smp Id: 680-89038-A-6-A Client Smp ID: CV1311B-CS-SP
 Inj Date : 12-APR-2013 12:20
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-A-6-A
 Misc Info : 680-89038-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 5
 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	40.079	% 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	3.668	3.669	(1.000)	224423	40.0000	
* 6 Acenaphthene-d10	164	4.757	4.757	(1.000)	149168	40.0000	
* 10 Phenanthrene-d10	188	5.698	5.704	(1.000)	293530	40.0000	
\$ 14 o-Terphenyl	230	5.951	5.951	(1.044)	33679	7.61845	844.2272
* 18 Chrysene-d12	240	7.633	7.639	(1.000)	373753	40.0000	
* 23 Perylene-d12	264	8.792	8.792	(1.000)	409738	40.0000	
2 Naphthalene	128	3.680	3.680	(1.003)	2496	0.41144	45.5930(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.120)	1528	0.64933	71.9541(Q)
4 1-Methylnaphthalene	142	4.168	4.169	(1.136)	1105	0.28516	31.5993
9 Fluorene	166	5.092	5.098	(1.070)	720	0.14853	16.4592(Q)
11 Phenanthrene	178	5.715	5.716	(1.003)	4199	0.49462	54.8110
12 Anthracene	178	5.745	5.751	(1.008)	801	0.09400	10.4162(Q)
15 Fluoranthene	202	6.545	6.551	(1.149)	6385	0.67054	74.3049
16 Pyrene	202	6.715	6.716	(0.880)	5195	0.48858	54.1411

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228	7.627	7.627	(0.999)	4290	0.40590	44.9796
19 Chrysene	228	7.651	7.657	(1.002)	4796	0.45871	50.8314
20 Benzo(b)fluoranthene	252	8.450	8.457	(0.961)	6062	0.58576	64.9102
21 Benzo(k)fluoranthene	252	8.474	8.480	(0.964)	2821	0.24090	26.6946
22 Benzo(a)pyrene	252	8.733	8.739	(0.993)	3570	0.33372	36.9808
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.921	(1.127)	3559	0.97429	107.9645
26 Benzo(g,h,i)perylene	276	10.239	10.256	(1.165)	3733	0.37230	41.2559(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: 1CD12005.D

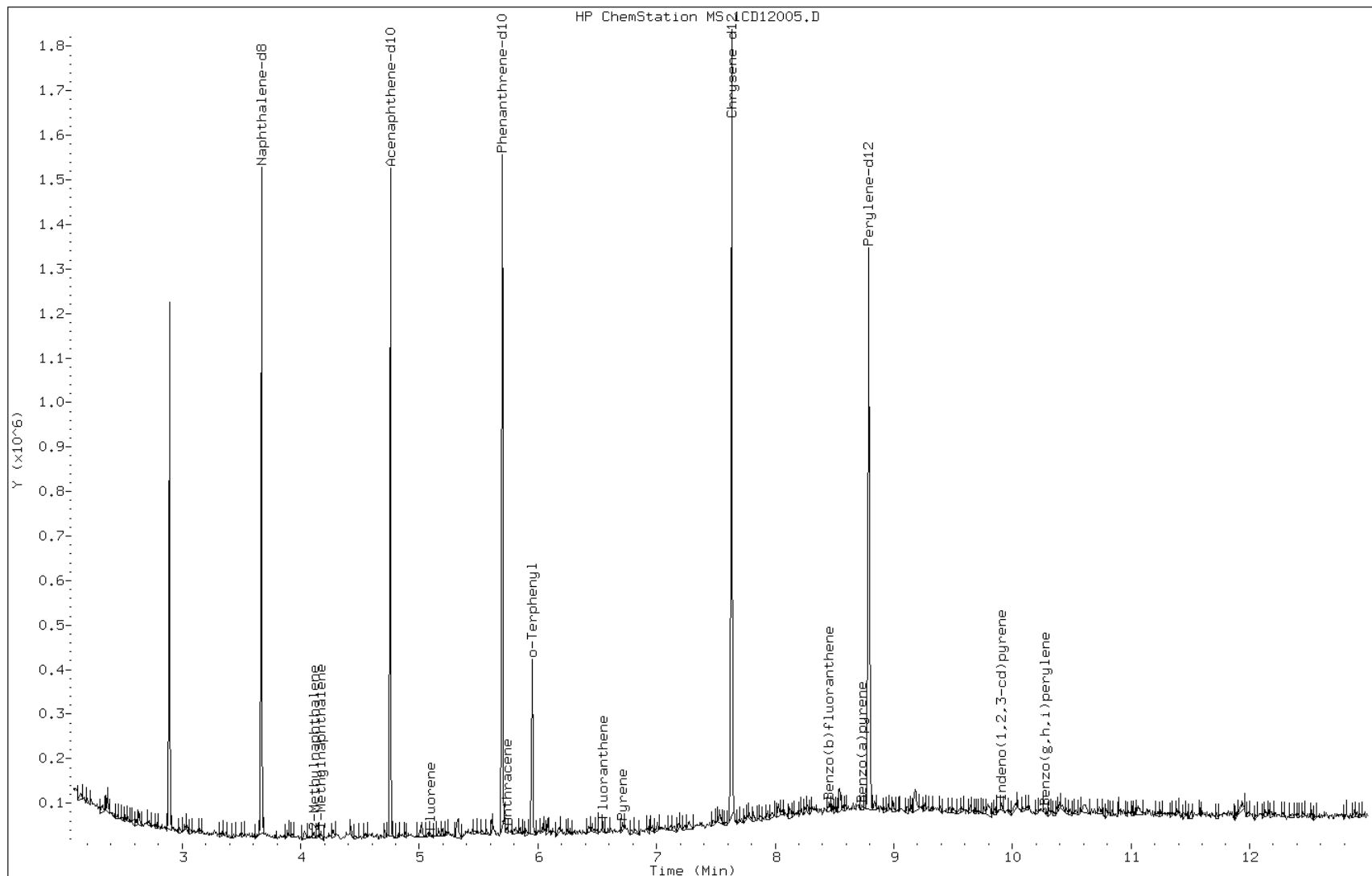
Date: 12-APR-2013 12:20

Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

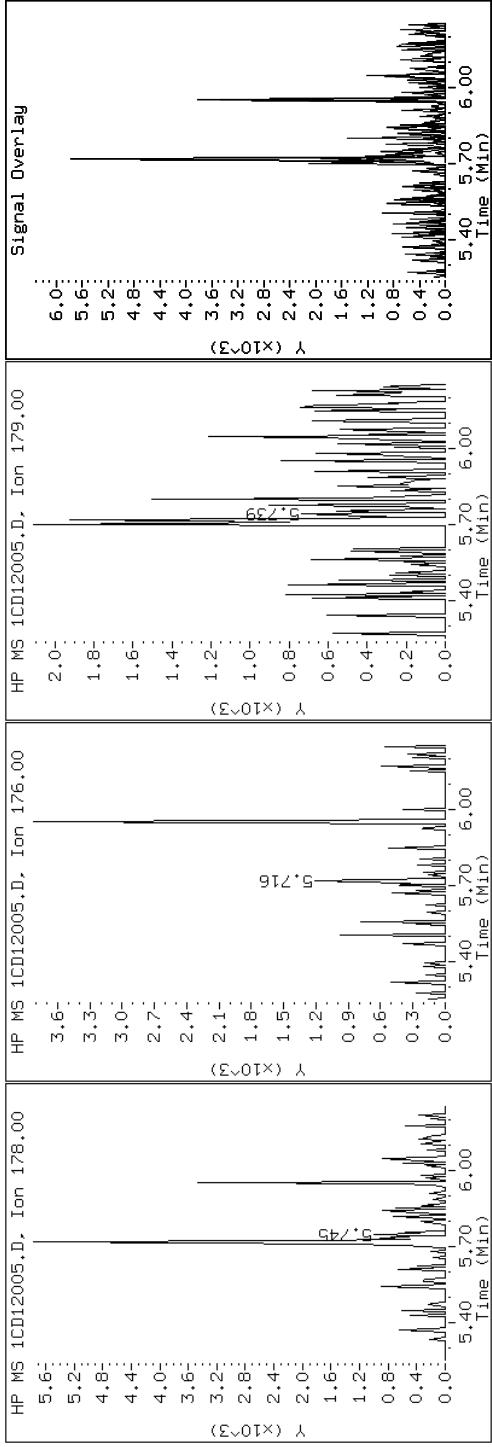
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

12 Anthracene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

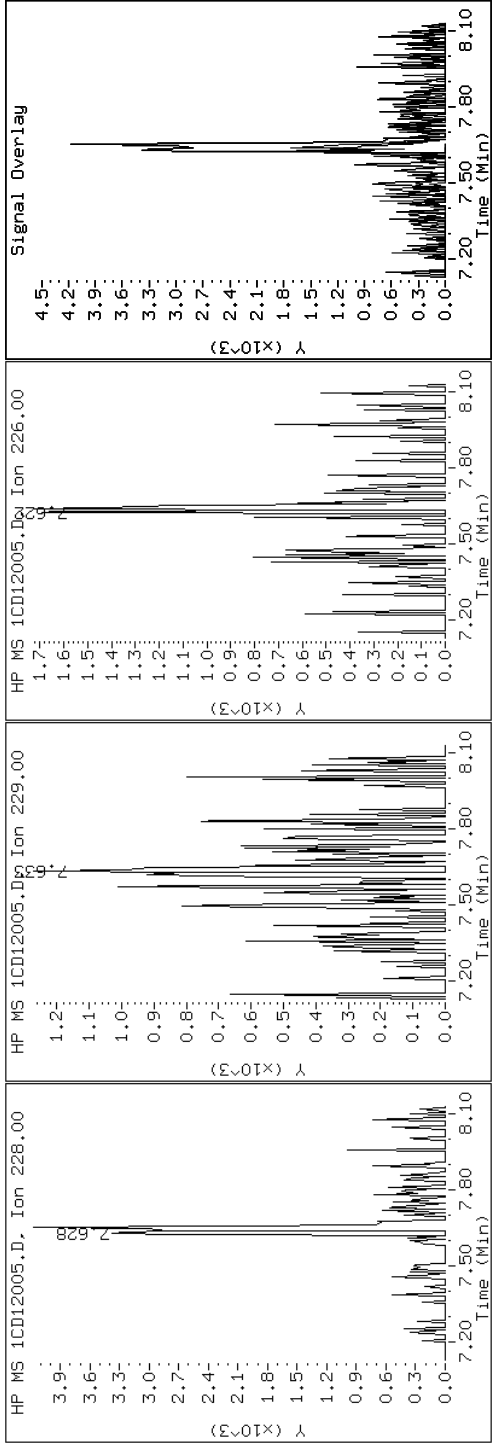
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

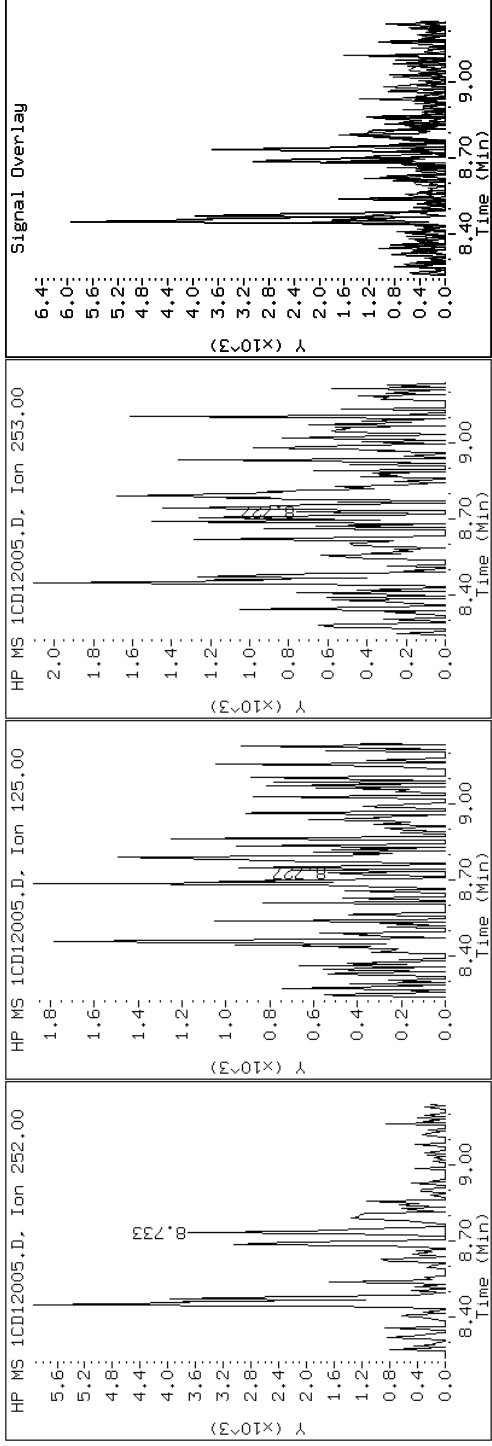
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

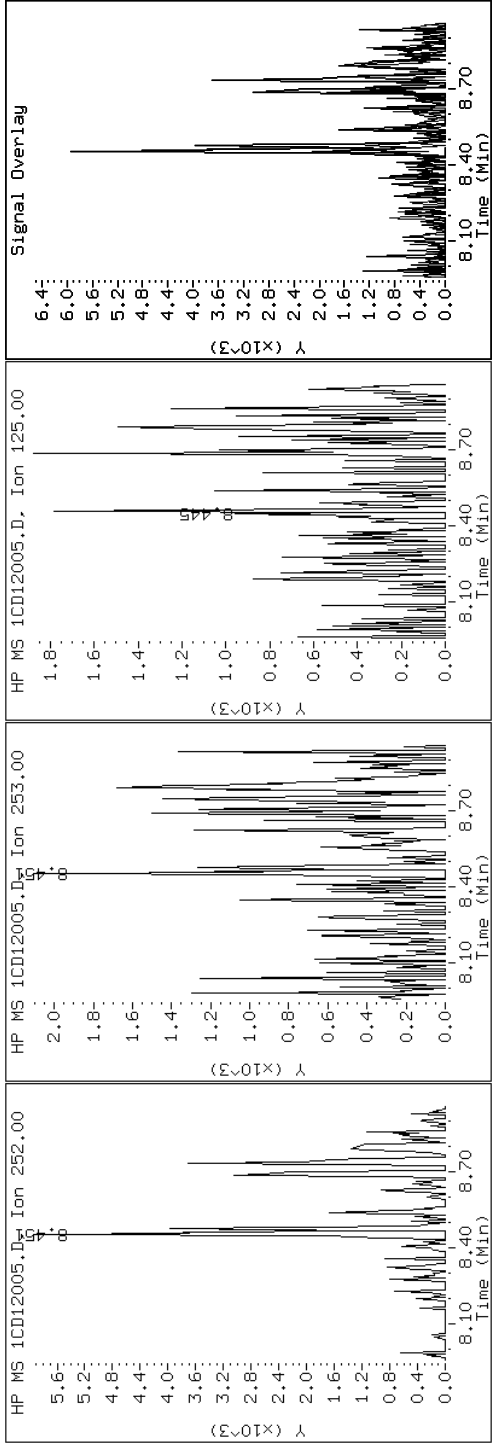
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

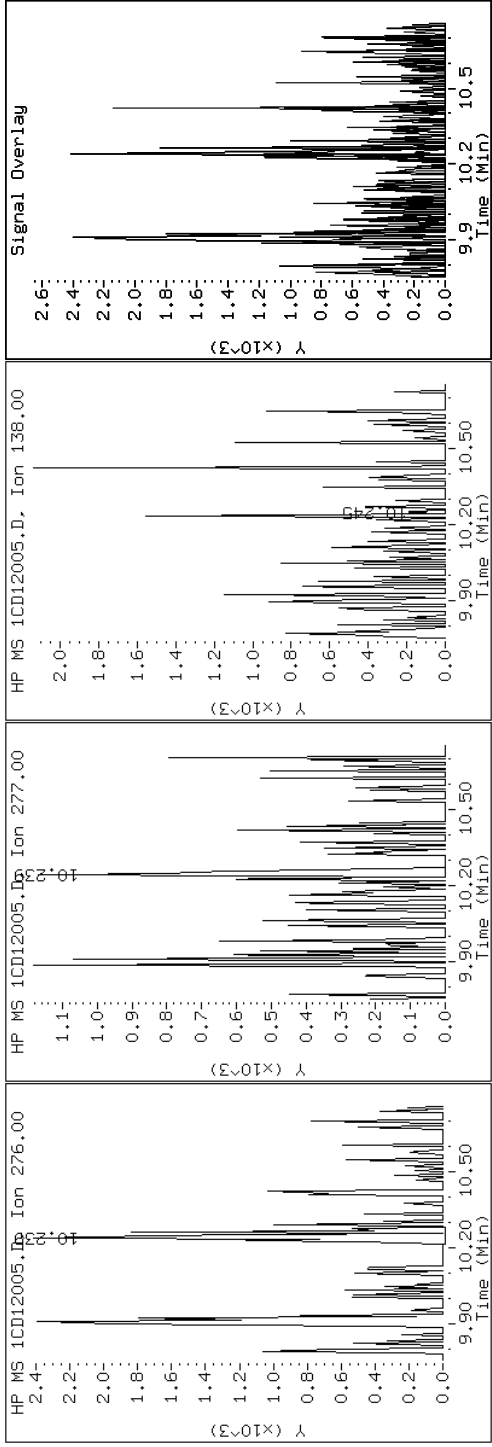
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

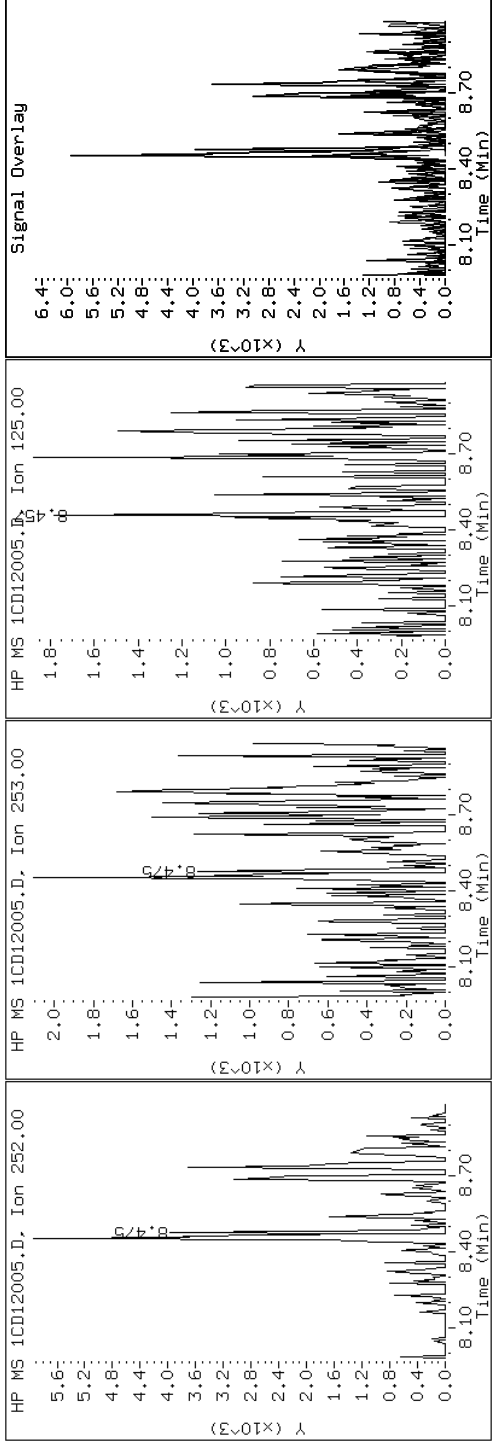
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

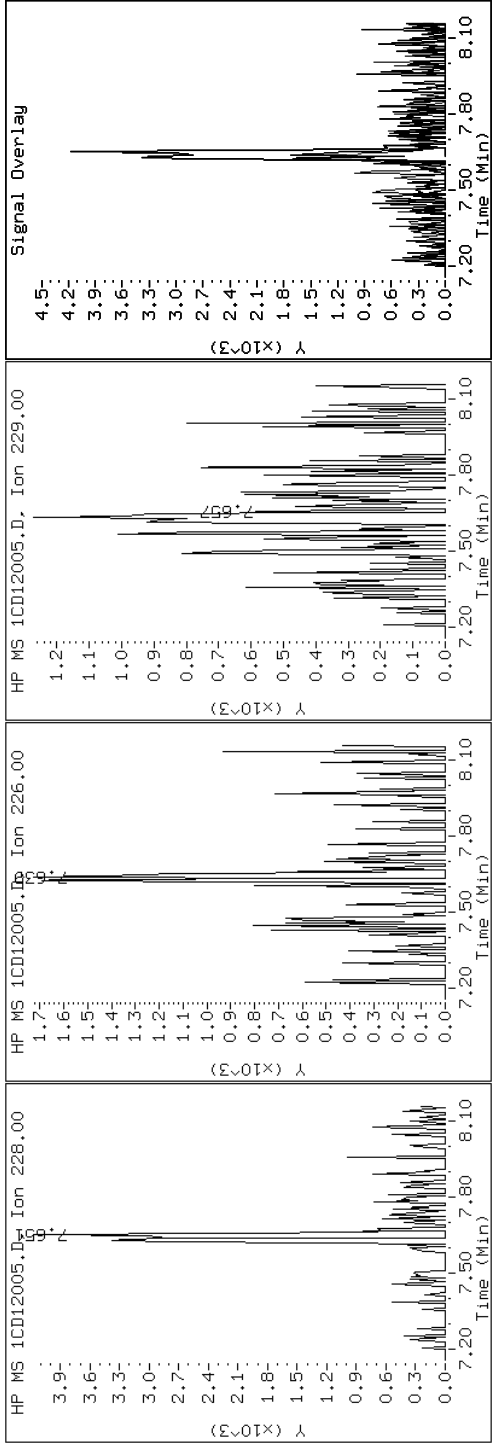
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

19 Chrysene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

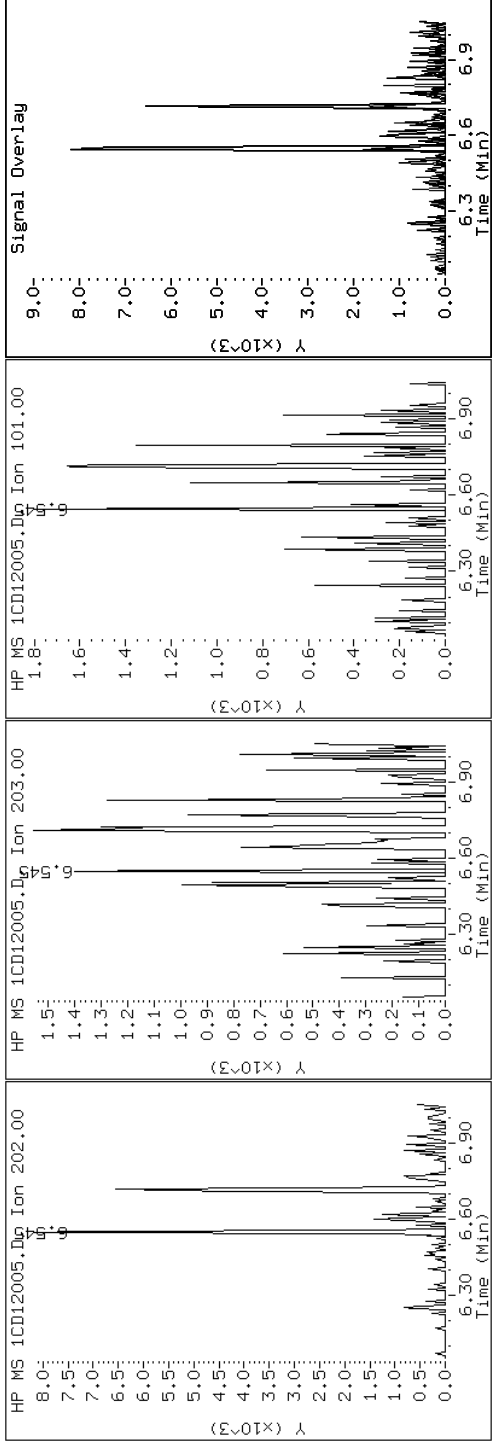
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

15 Fluoranthene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

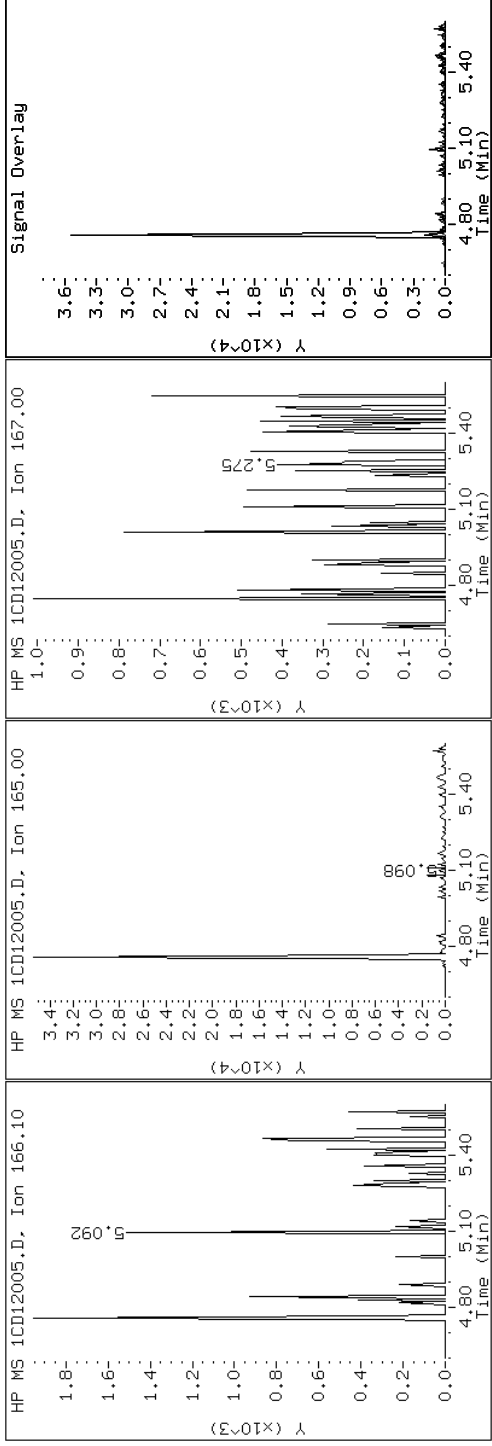
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

9 Fluorene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

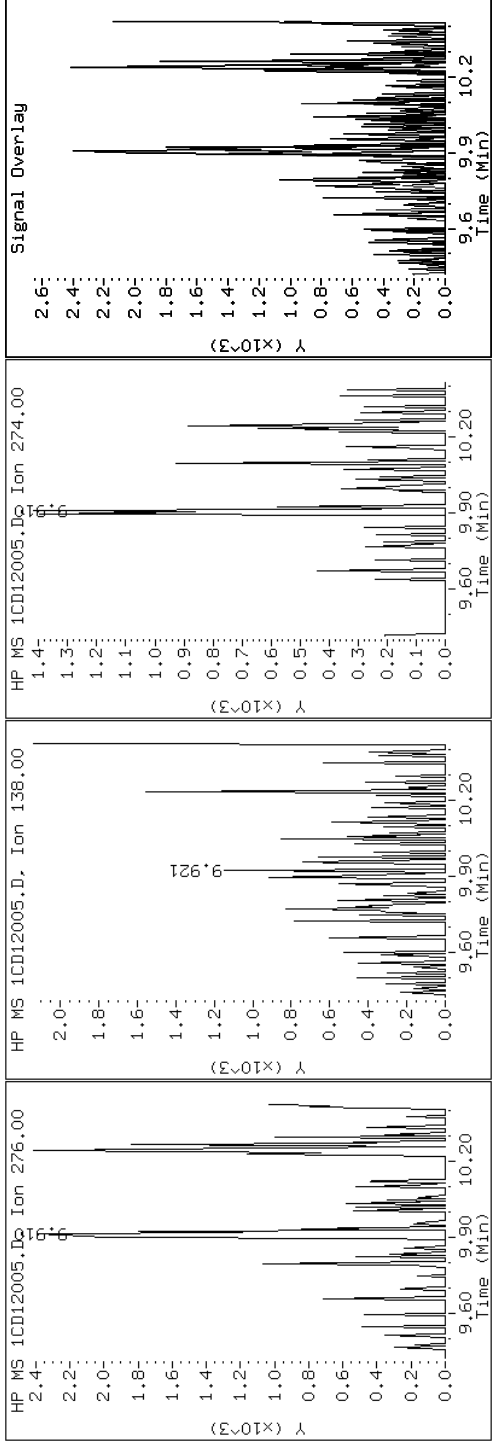
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

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



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

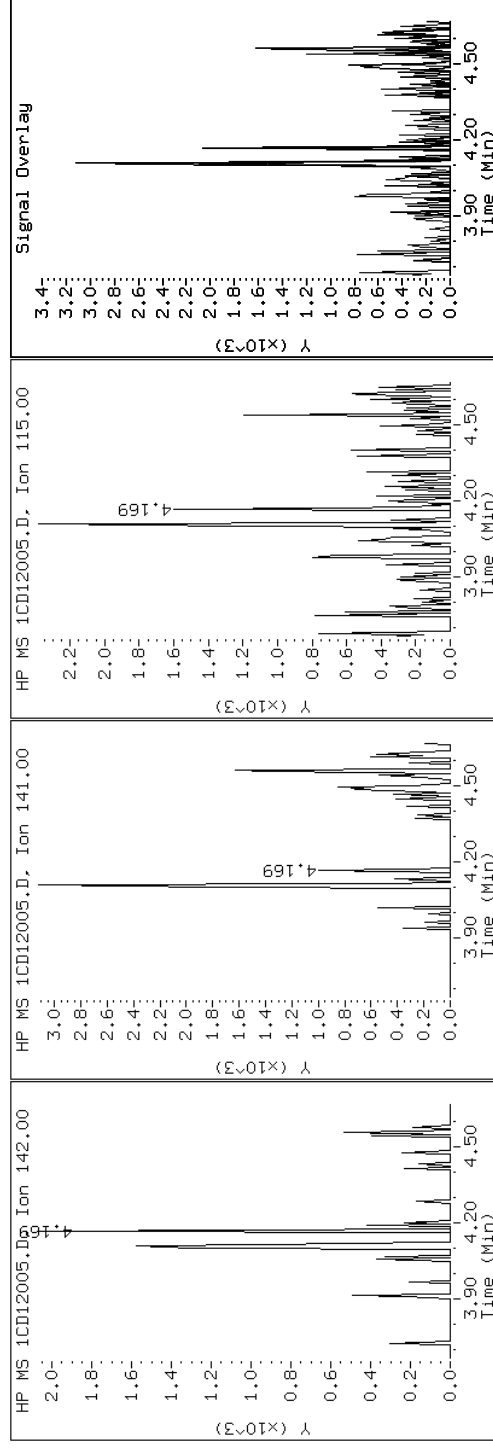
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

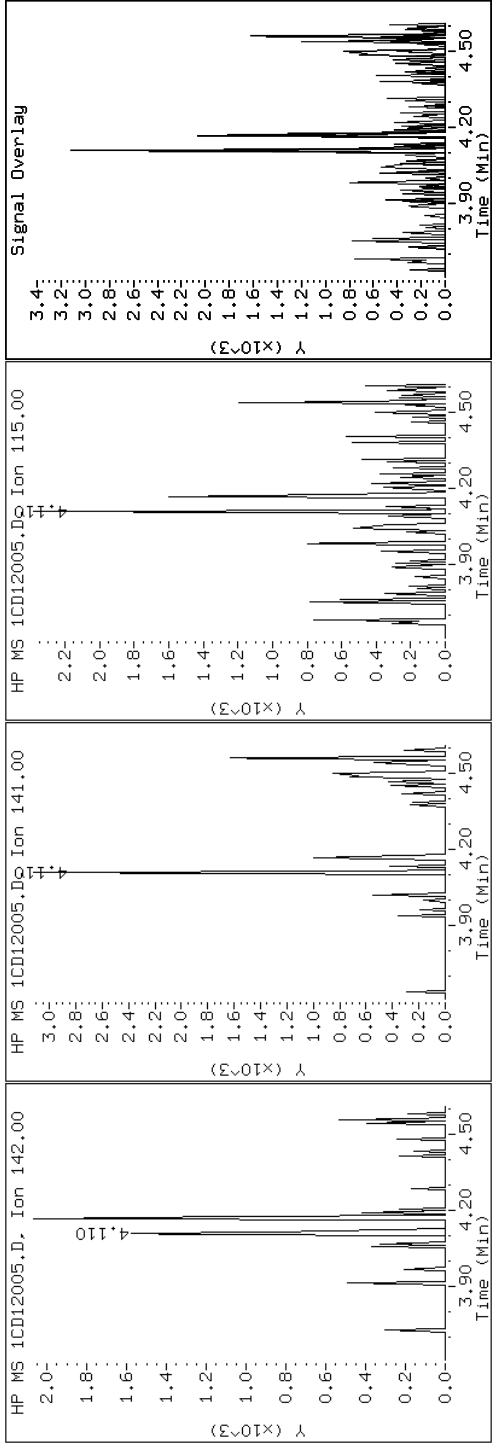
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

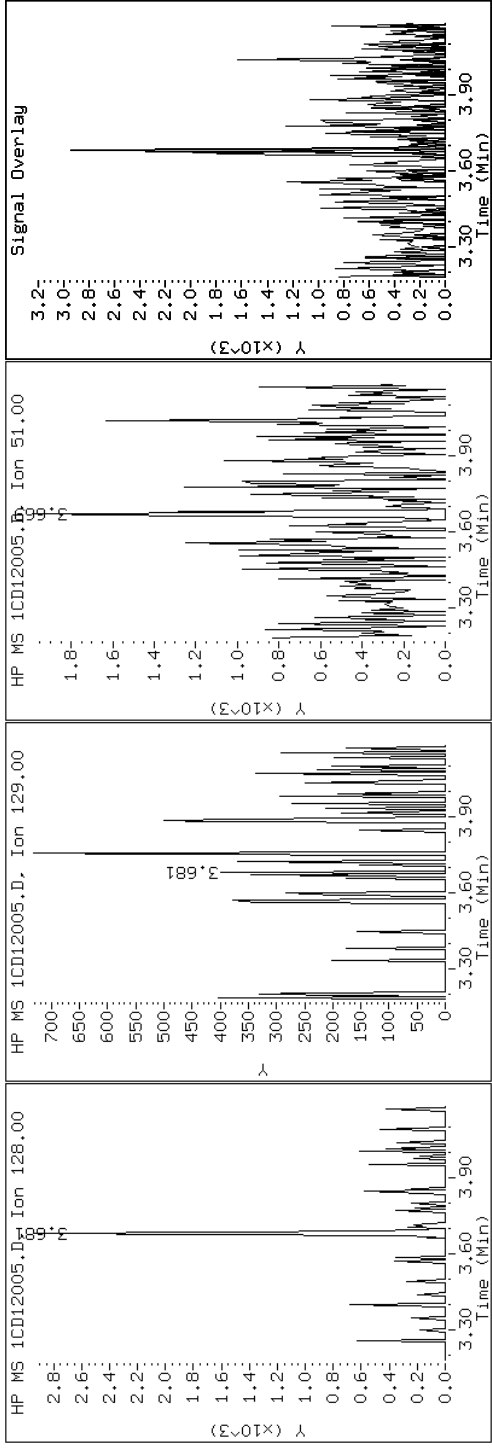
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

2 Naphthalene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

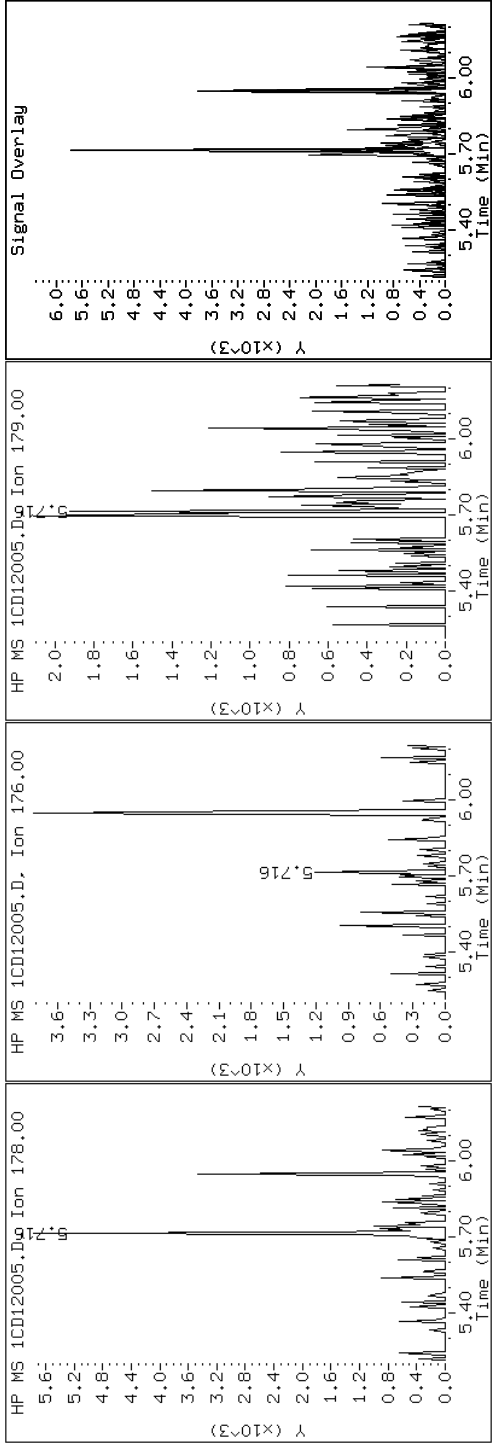
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

11 Phenanthrene



Data File: 1CD12005.D

Date: 12-APR-2013 12:20

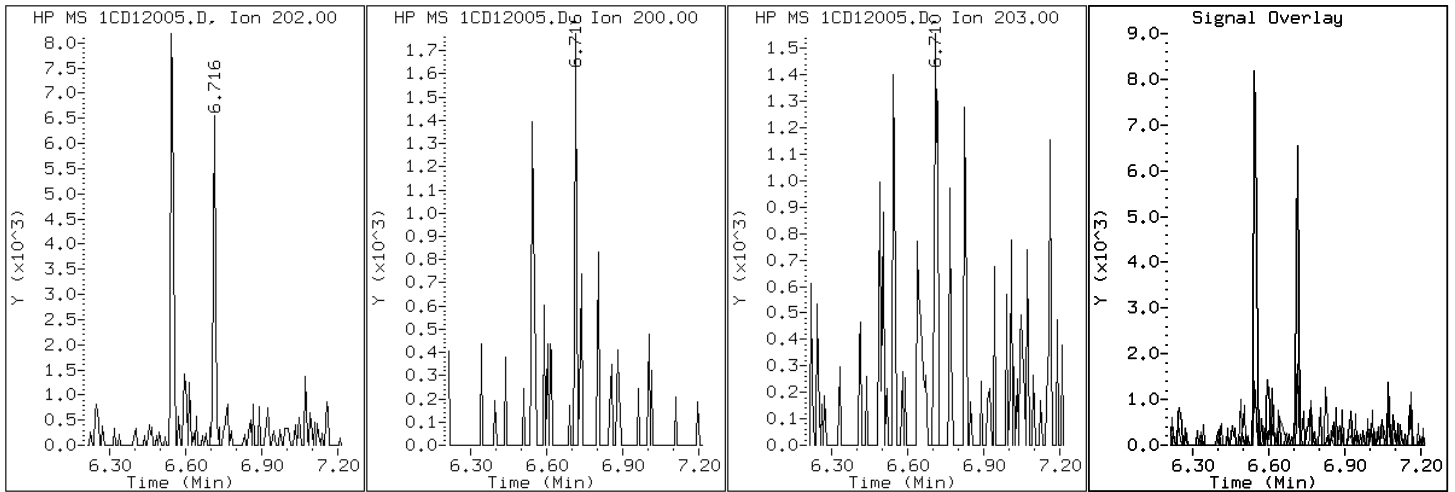
Client ID: CV1311B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-A-6-A

Operator: SCC

16 Pyrene

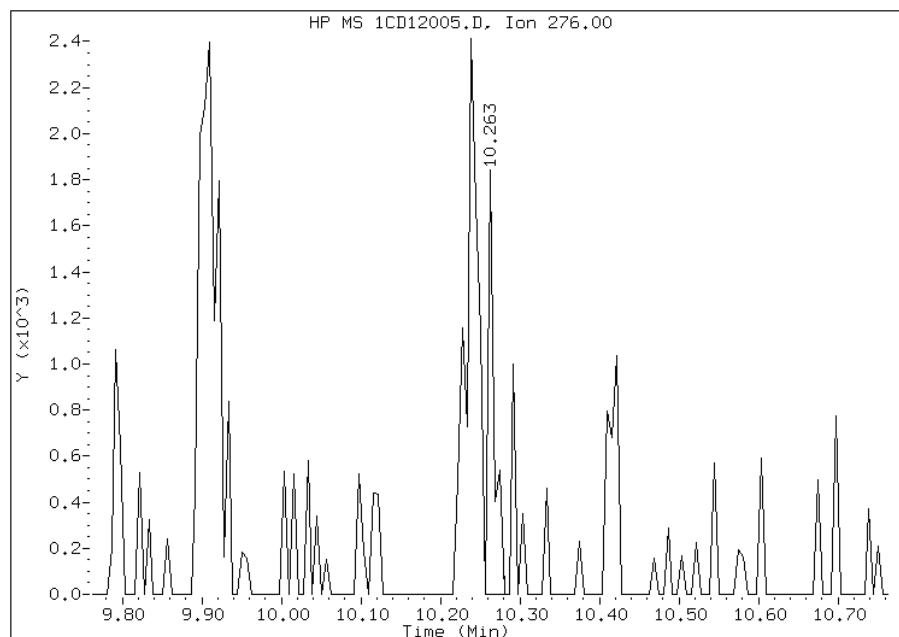


Manual Integration Report

Data File: 1CD12005.D
Inj. Date and Time: 12-APR-2013 12:20
Instrument ID: BSMC5973.i
Client ID: CV1311B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

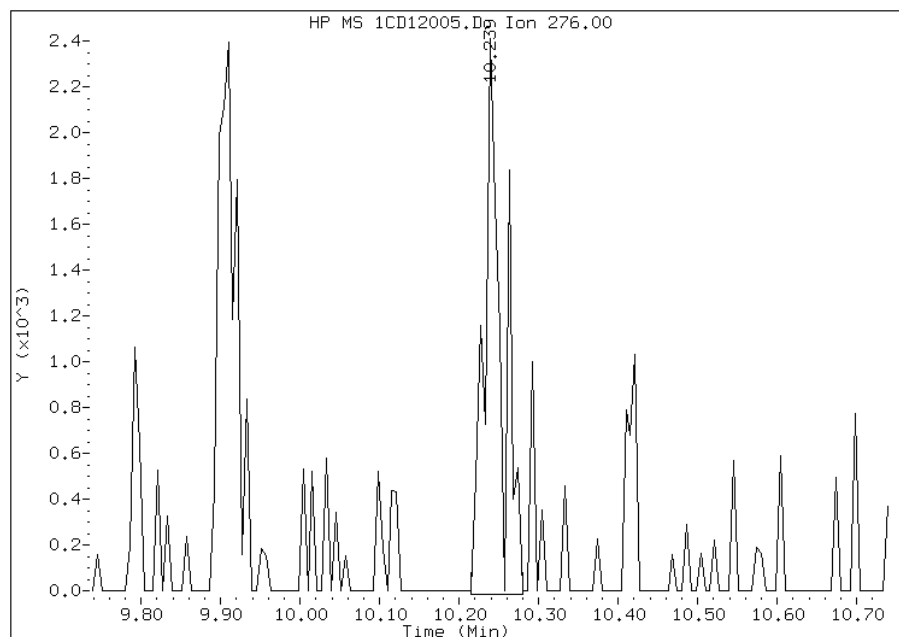
Processing Integration Results

RT: 10.26
Response: 982
Amount: 0
Conc: 11



Manual Integration Results

RT: 10.24
Response: 3733
Amount: 0
Conc: 41



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 14:26
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0052A-CS Lab Sample ID: 680-89038-7
 Matrix: Solid Lab File ID: 1CD11025.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 11:25
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.11(g) Date Analyzed: 04/11/2013 19:08
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	280		170	33
208-96-8	Acenaphthylene	27	J	66	8.3
120-12-7	Anthracene	360		14	6.9
56-55-3	Benzo[a]anthracene	1100		13	6.4
50-32-8	Benzo[a]pyrene	910		17	8.6
205-99-2	Benzo[b]fluoranthene	1700		20	10
191-24-2	Benzo[g,h,i]perylene	670		33	7.3
207-08-9	Benzo[k]fluoranthene	600		13	6.0
218-01-9	Chrysene	1200		15	7.4
53-70-3	Dibenz(a,h)anthracene	240		33	6.8
206-44-0	Fluoranthene	2900		33	6.6
86-73-7	Fluorene	160		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	710		33	12
90-12-0	1-Methylnaphthalene	130		66	7.3
91-57-6	2-Methylnaphthalene	190		66	12
91-20-3	Naphthalene	460		66	7.3
85-01-8	Phenanthrene	2500		13	6.4
129-00-0	Pyrene	2200		33	6.1

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11025.D
 Lab Smp Id: 680-89038-A-7-A Client Smp ID: CV0052A-CS
 Inj Date : 11-APR-2013 19:08
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-7-a
 Misc Info : 680-89038-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	39.958	% 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		3.674	3.675	(1.000)	293355	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	215453	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	394251	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	33171	5.77051	636.0562
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	440518	40.0000	
* 23 Perylene-d12	264		8.803	8.798	(1.000)	419887	40.0000	
2 Naphthalene	128		3.686	3.687	(1.003)	33333	4.20349	463.3309
3 2-Methylnaphthalene	142		4.115	4.115	(1.120)	7547	1.69575	186.9151
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	5806	1.14623	126.3441
5 Acenaphthylene	152		4.674	4.675	(0.981)	2228	0.24404	26.8997
7 Acenaphthene	154		4.780	4.781	(1.004)	13749	2.49898	275.4506
9 Fluorene	166		5.098	5.104	(1.070)	9928	1.41798	156.2974
11 Phenanthrene	178		5.721	5.722	(1.003)	263265	22.8930	2523.3839
12 Anthracene	178		5.757	5.757	(1.009)	37853	3.30723	364.5404

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.862	5.863	(1.028)	44700	4.19333	462.2108
15 Fluoranthene	202	6.557	6.557	(1.150)	334235	26.1334	2880.5602
16 Pyrene	202	6.721	6.722	(0.880)	254736	20.3264	2240.4844
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	125095	10.0422	1106.9004
19 Chrysene	228	7.662	7.663	(1.003)	130696	10.6058	1169.0283
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	161140	15.1943	1674.8001
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	65508	5.45880	601.6980(Q)
22 Benzo(a)pyrene	252	8.750	8.751	(0.994)	90782	8.28113	912.7907
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	62856	6.41072	706.6239(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.129)	18267	2.14596	236.5388
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	62867	6.11832	674.3938

QC Flag Legend

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

Data File: 1CD11025.D

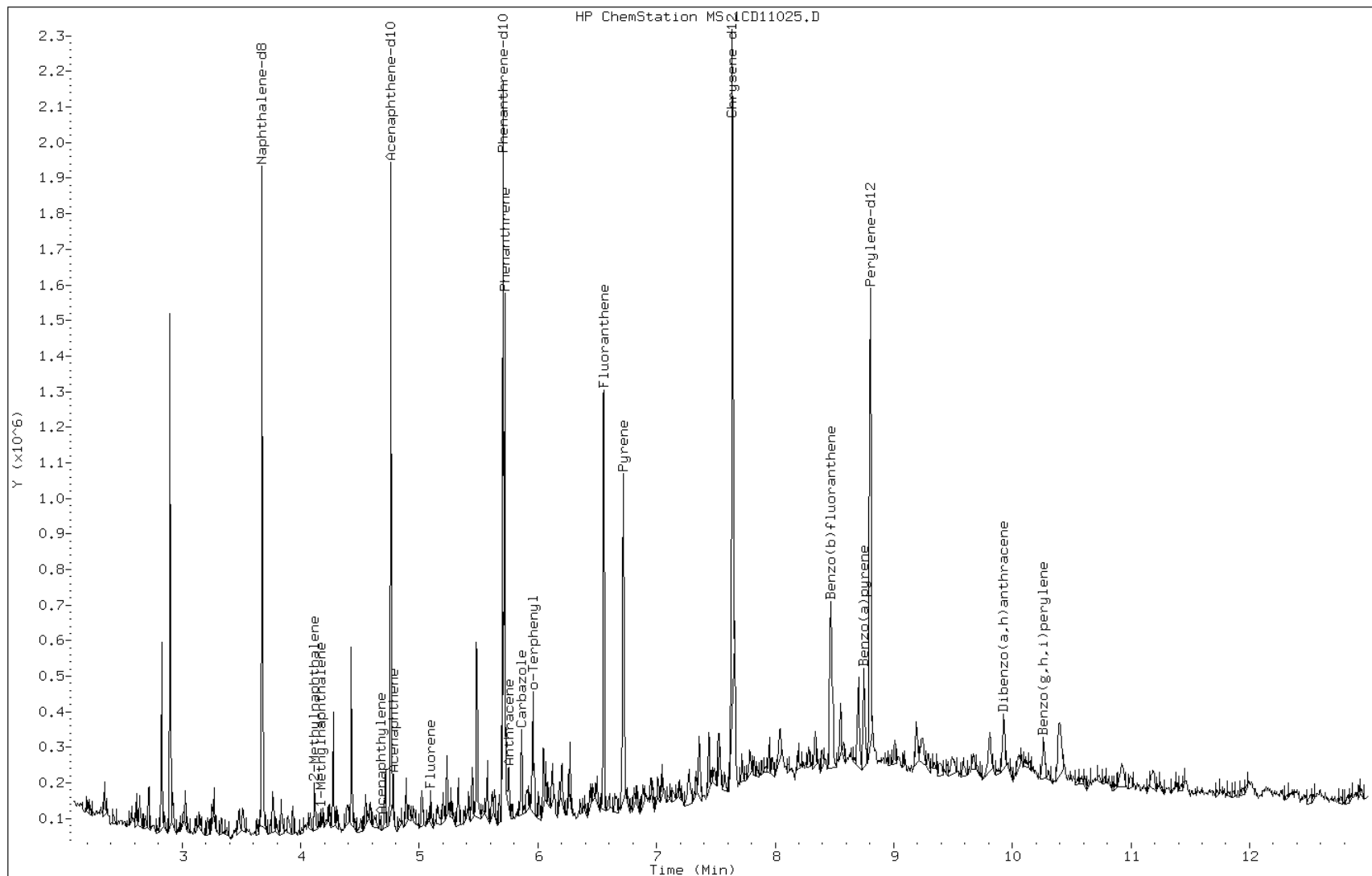
Date: 11-APR-2013 19:08

Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

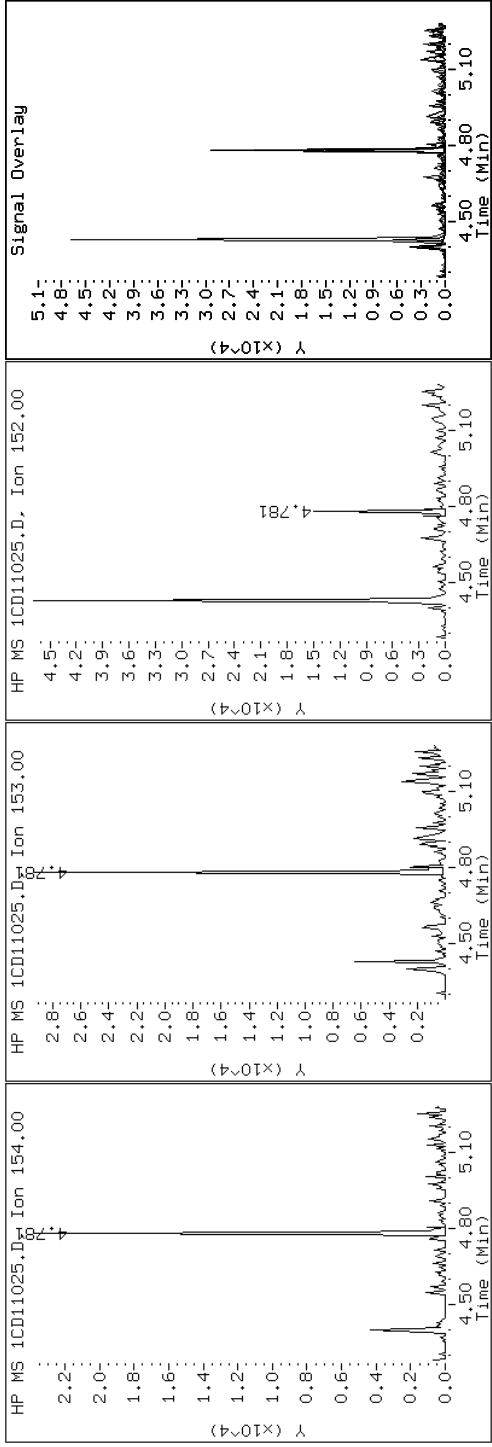
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

7 Acenaphthene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

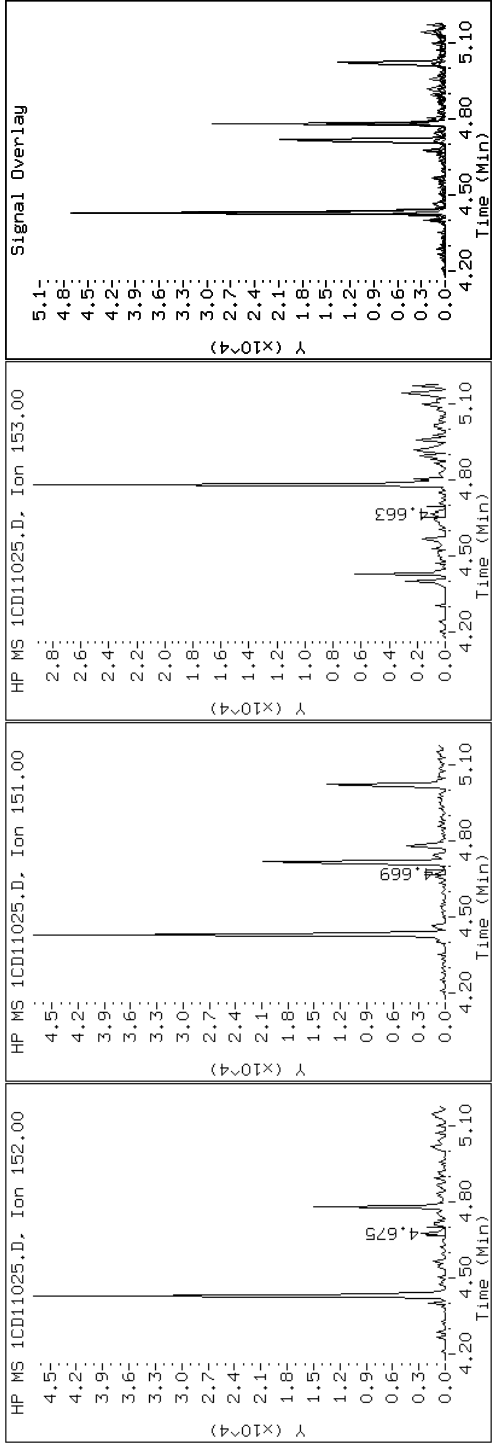
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

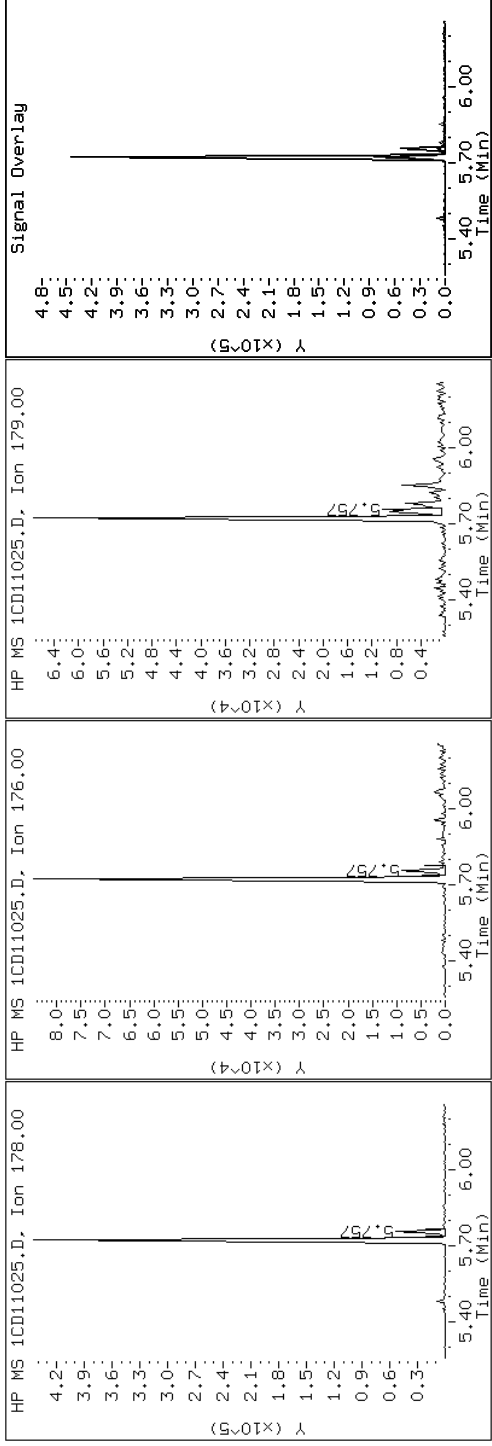
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

12 Anthracene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

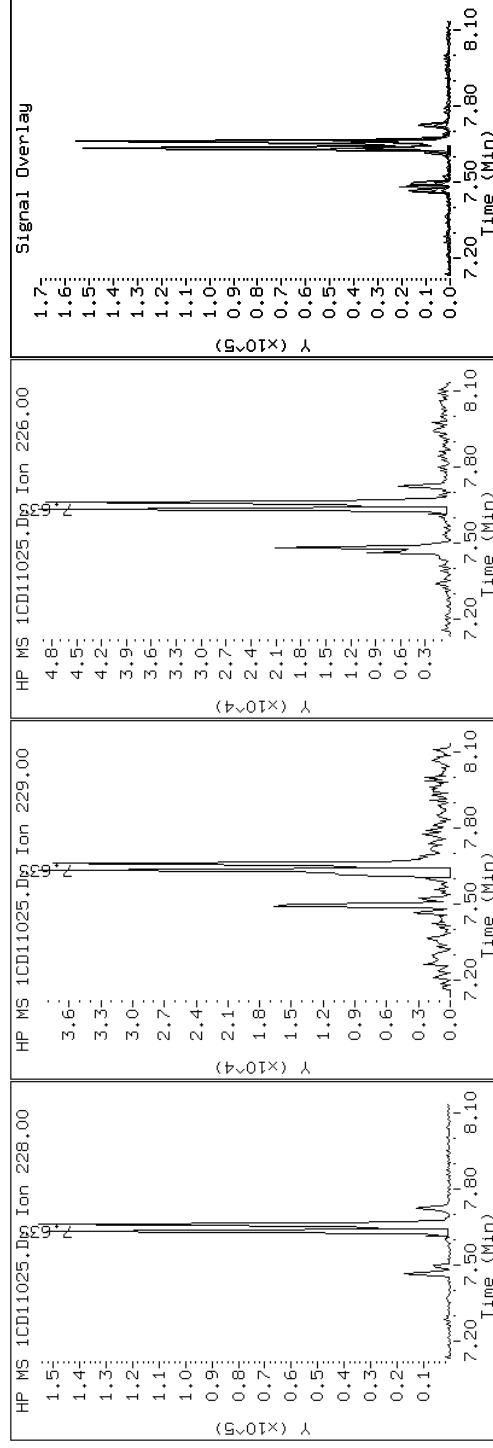
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

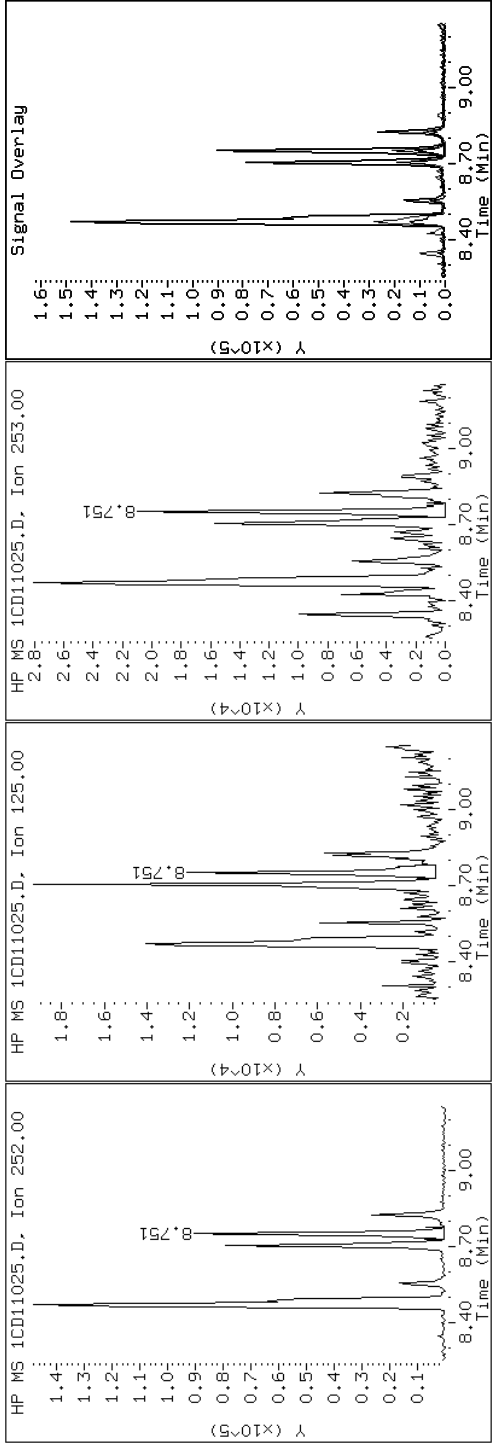
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

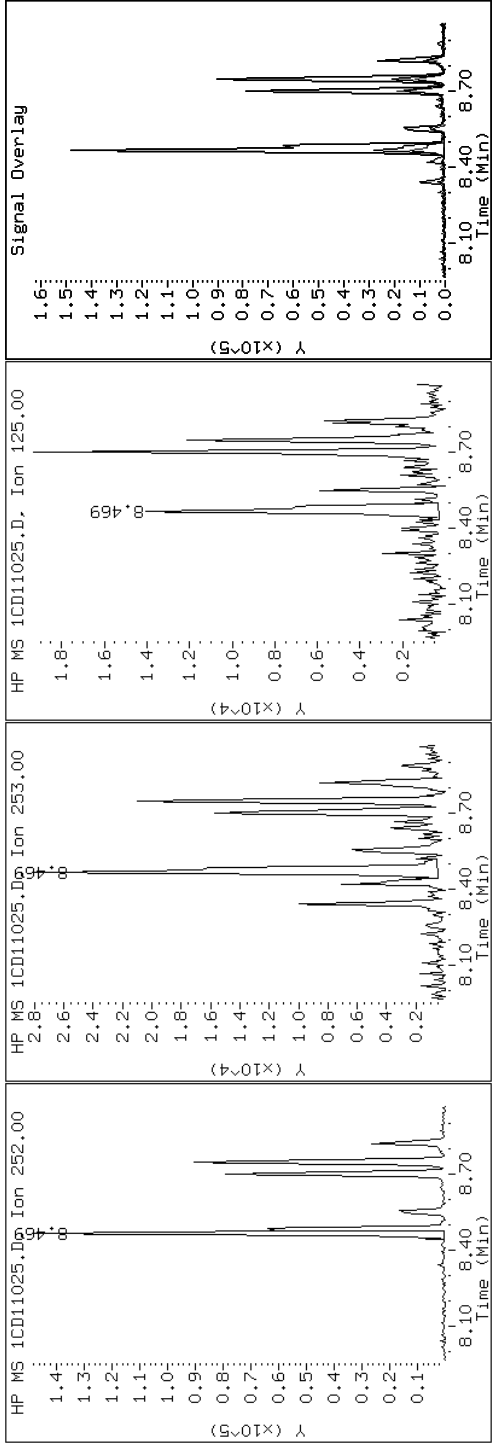
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

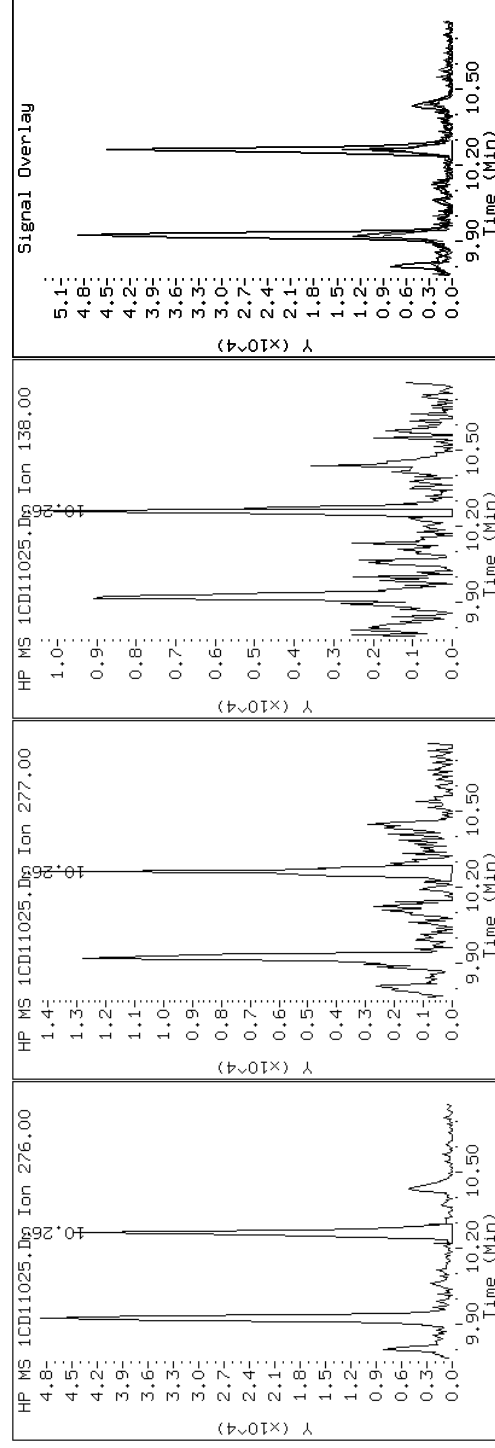
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

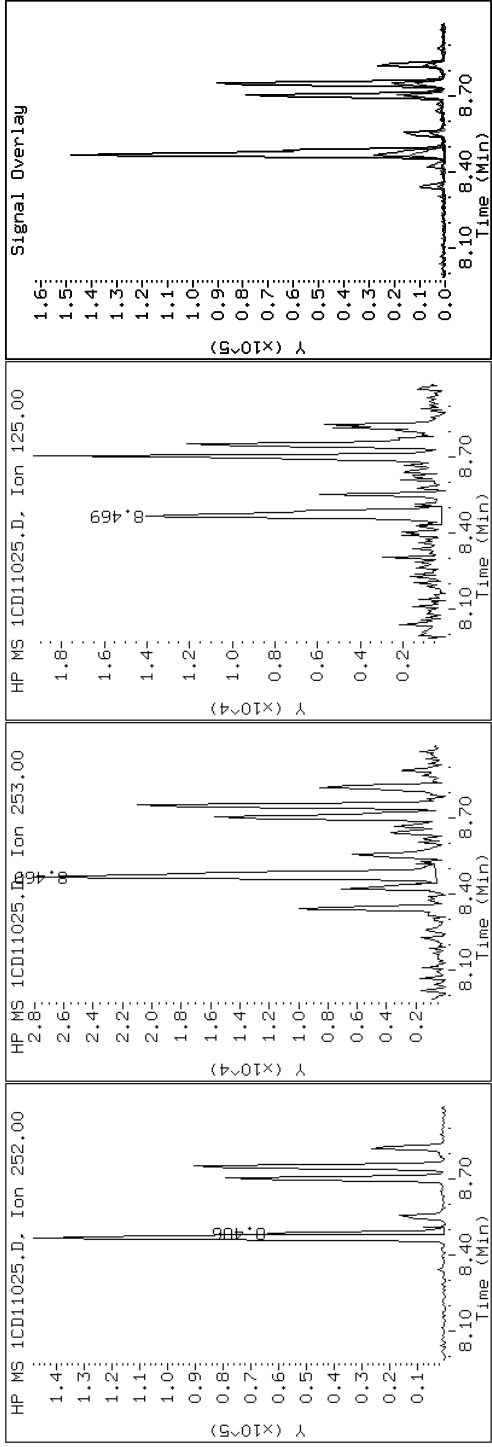
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

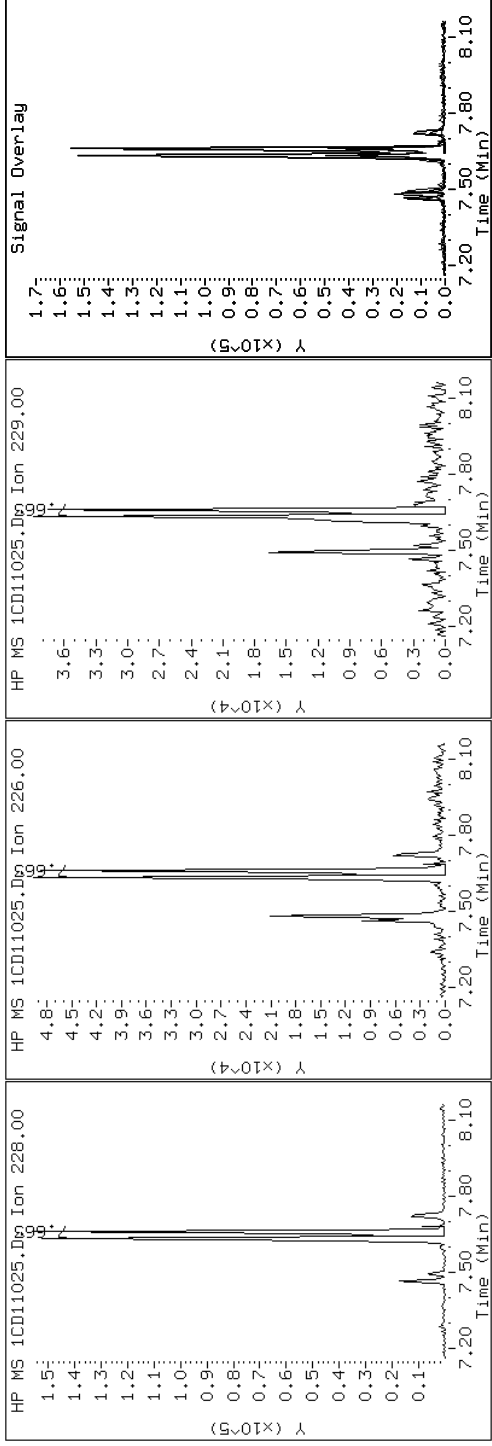
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

19 Chrysene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

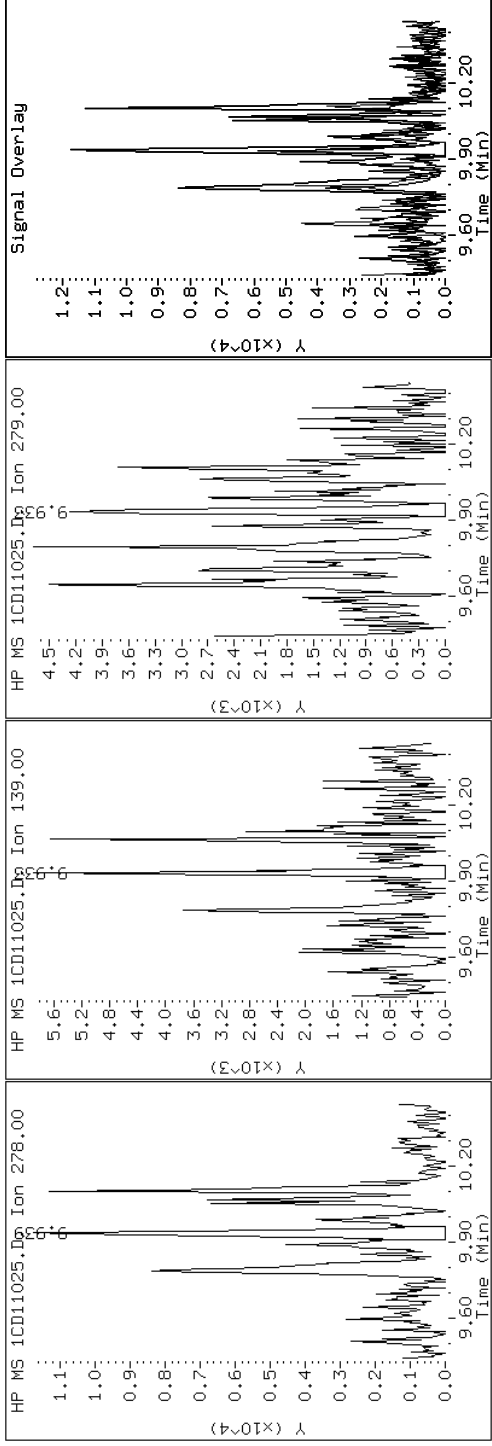
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

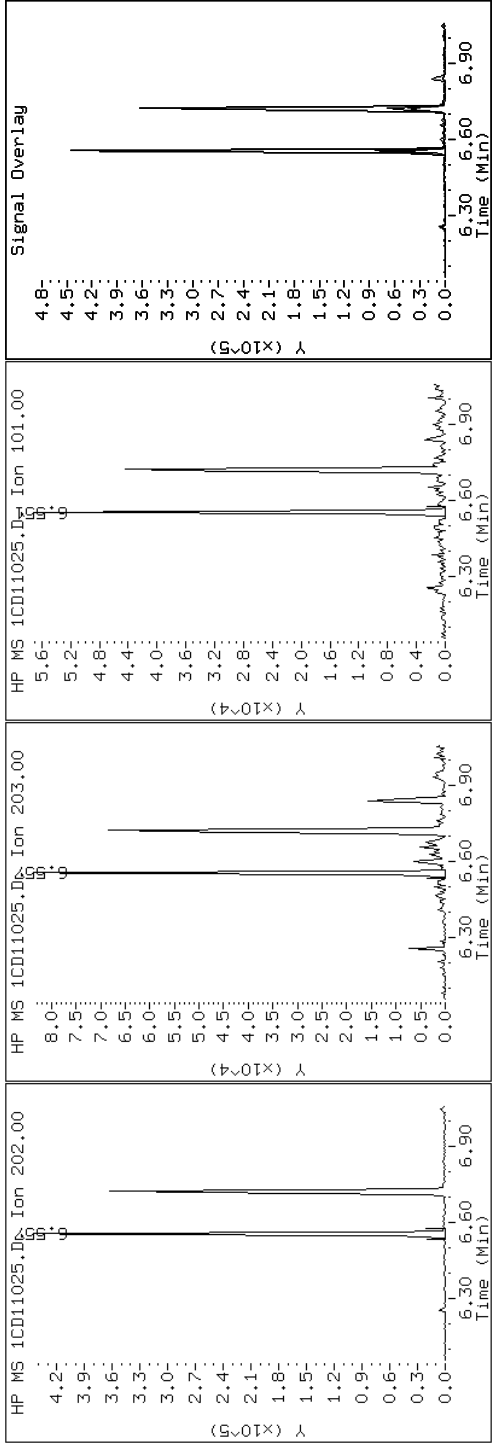
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

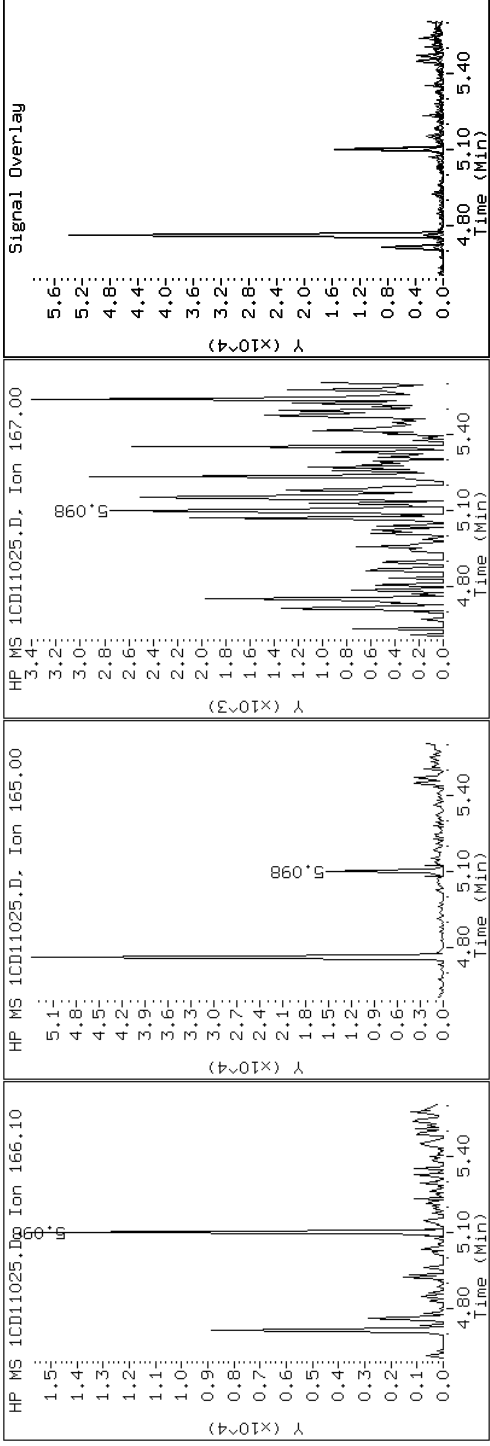
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

9 Fluorene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

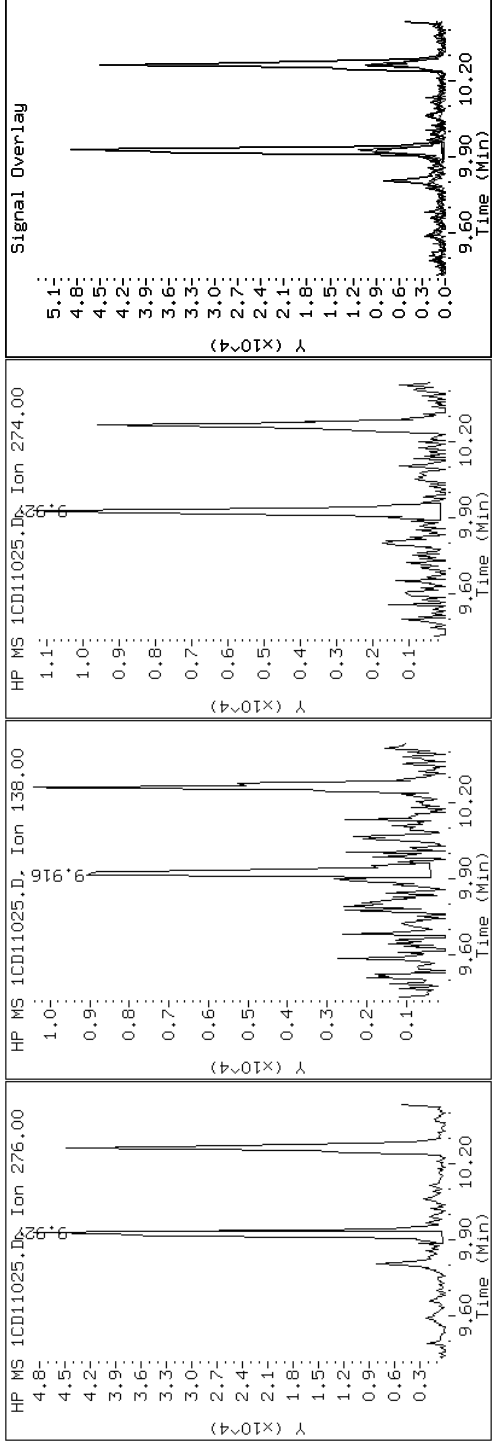
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

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



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

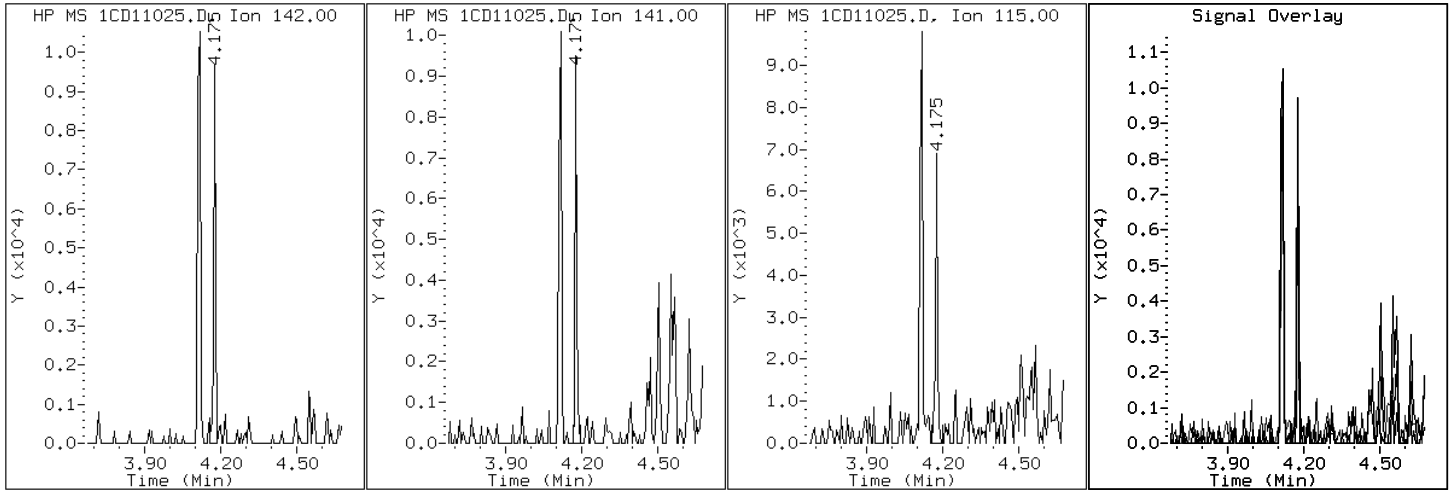
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

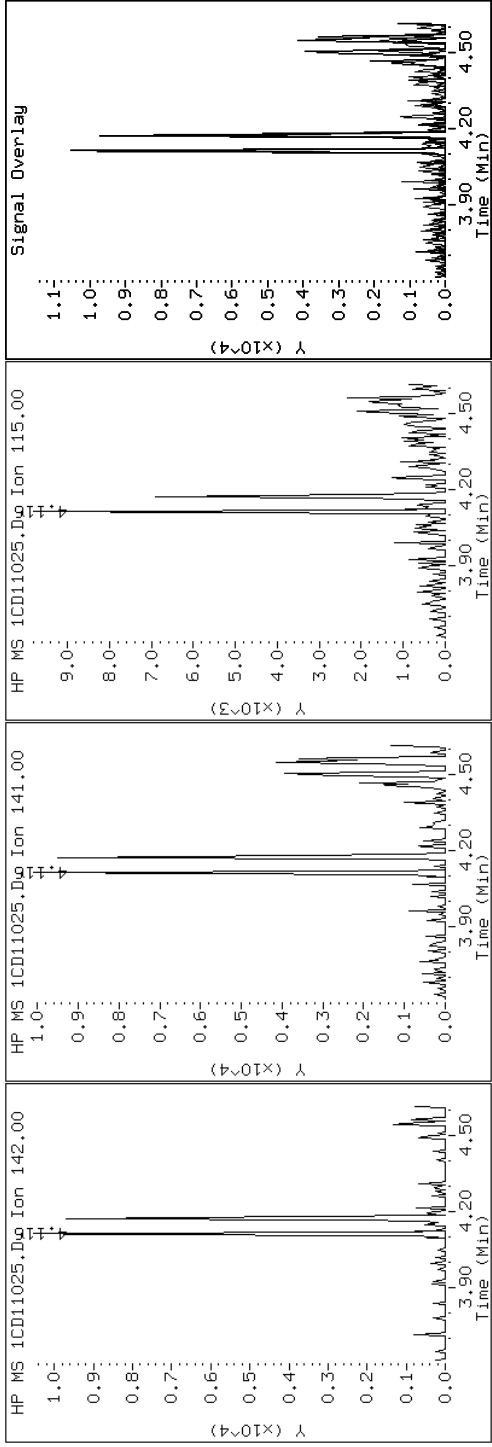
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

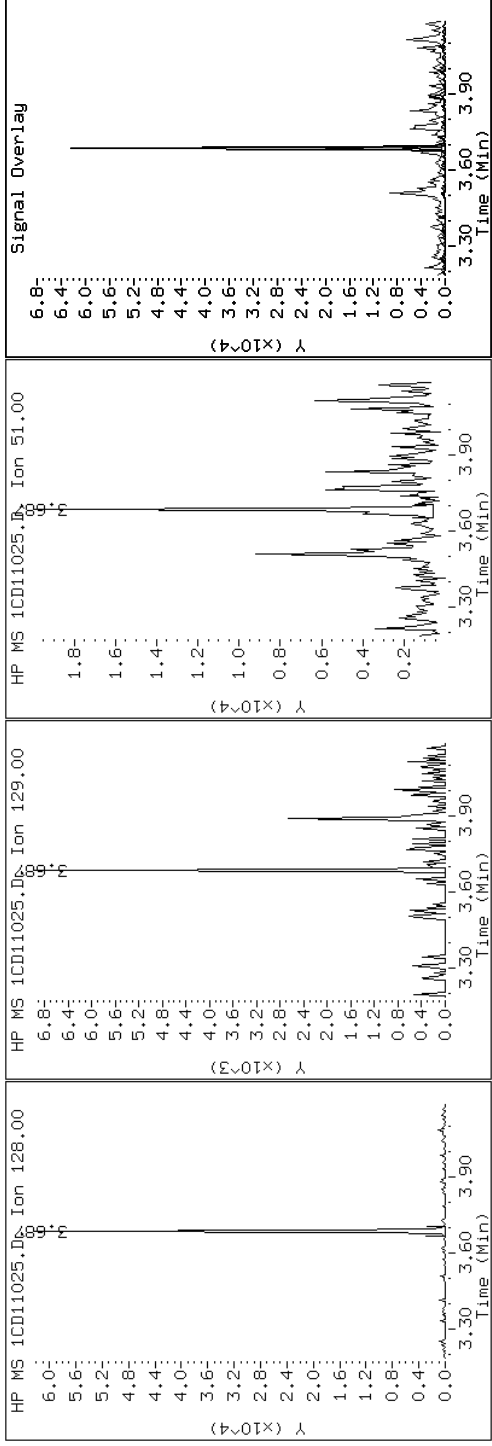
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

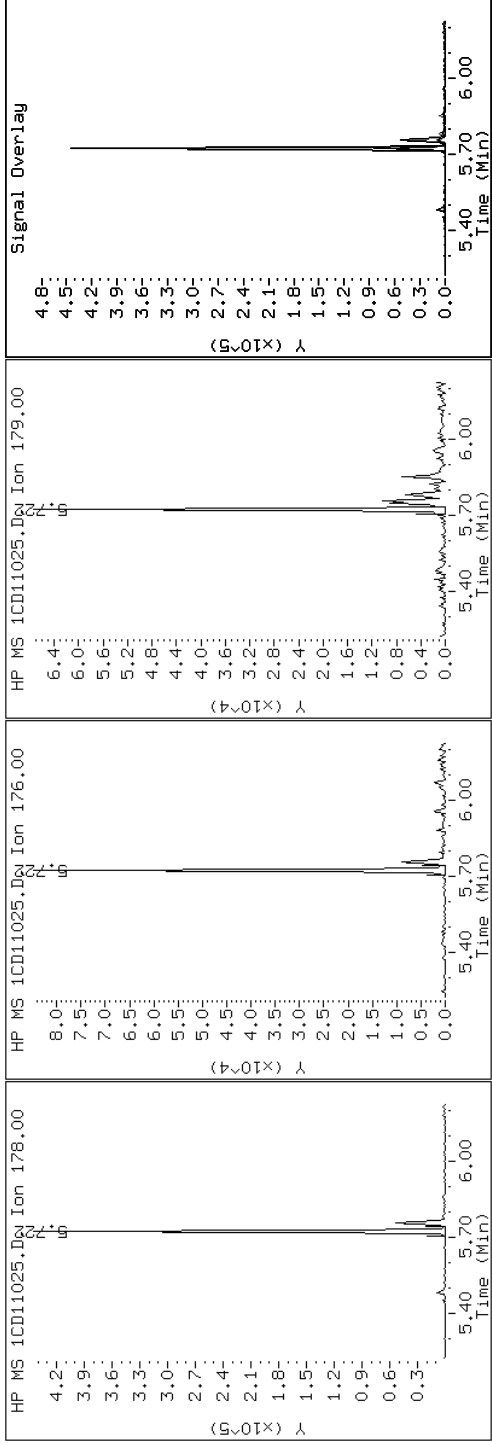
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11025.D

Date: 11-APR-2013 19:08

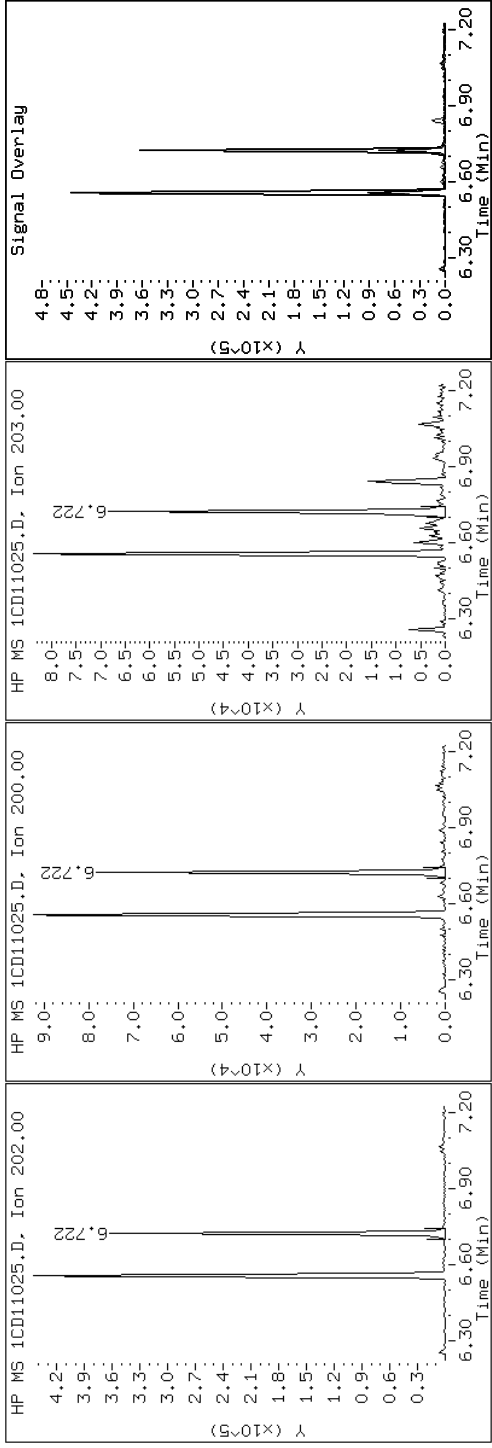
Client ID: CV0052A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-7-a

Operator: SCC

16 Pyrene

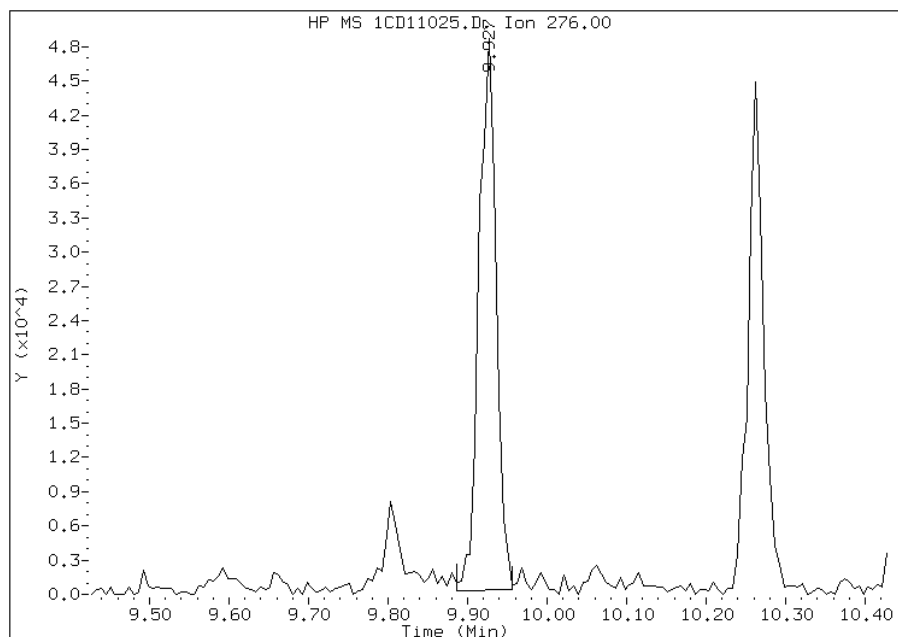


Manual Integration Report

Data File: 1CD11025.D
Inj. Date and Time: 11-APR-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0052A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

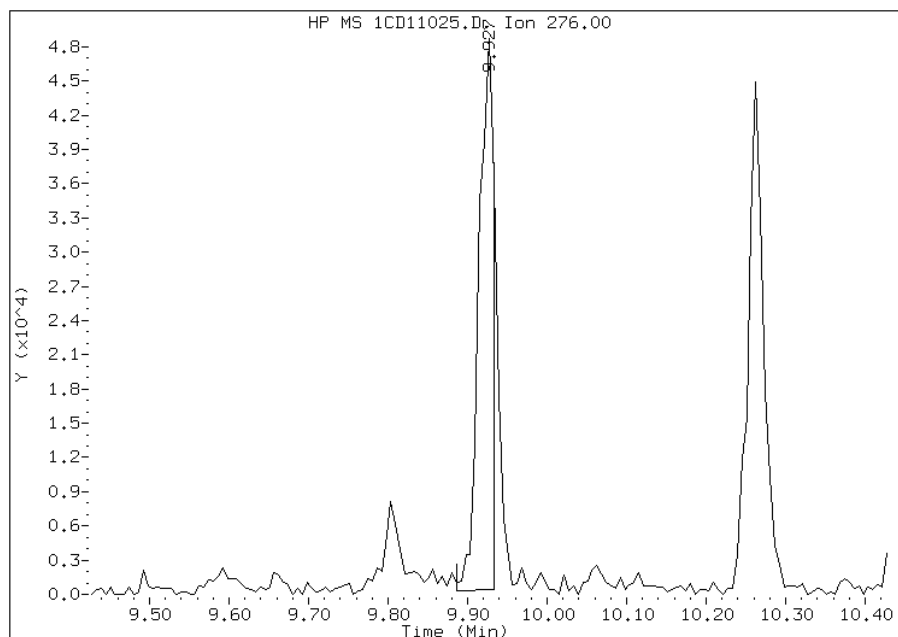
Processing Integration Results

RT: 9.93
Response: 72197
Amount: 7
Conc: 801



Manual Integration Results

RT: 9.93
Response: 62856
Amount: 6
Conc: 707



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0052B-CS Lab Sample ID: 680-89038-8
 Matrix: Solid Lab File ID: 1CD11026.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 11:30
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.30 (g) Date Analyzed: 04/11/2013 19:26
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 40.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	660	U	660	130
208-96-8	Acenaphthylene	56	J	270	33
120-12-7	Anthracene	28	J	56	28
56-55-3	Benzo[a]anthracene	160		53	26
50-32-8	Benzo[a]pyrene	200		69	35
205-99-2	Benzo[b]fluoranthene	260		81	41
191-24-2	Benzo[g,h,i]perylene	120	J	130	29
207-08-9	Benzo[k]fluoranthene	180		53	24
218-01-9	Chrysene	250		60	30
53-70-3	Dibenz(a,h)anthracene	130	U	130	27
206-44-0	Fluoranthene	310		130	27
86-73-7	Fluorene	130	U	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	130	U	130	47
90-12-0	1-Methylnaphthalene	89	J	270	29
91-57-6	2-Methylnaphthalene	290		270	47
91-20-3	Naphthalene	170	J	270	29
85-01-8	Phenanthrene	200		53	26
129-00-0	Pyrene	310		130	25

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11026.D
 Lab Smp Id: 680-89038-A-8-A Client Smp ID: CV0052B-CS
 Inj Date : 11-APR-2013 19:26
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-8-a
 Misc Info : 680-89038-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	15.300	Weight Extracted
M	40.940	% 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		3.674	3.675	(1.000)	296160	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	206141	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	381433	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	11365	2.48895	1101.7629	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	403201	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	394411	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	3082	0.38498	170.4147(Q)	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	2025	0.65093	288.1407	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	1030	0.20142	89.1605	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1104	0.12639	55.9474	
11 Phenanthrene	178		5.721	5.722	(1.003)	4926	0.44733	198.0143	
12 Anthracene	178		5.751	5.757	(1.008)	708	0.06394	28.3024(Q)	
13 Carbazole	167		5.863	5.863	(1.028)	1677	0.16261	71.9798(Q)	
15 Fluoranthene	202		6.551	6.557	(1.148)	8562	0.69195	306.2988	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.721	6.722	(0.880)	7945	0.69264	306.6042
17 Benzo(a)anthracene	228	7.639	7.634	(1.000)	4113	0.36073	159.6834
19 Chrysene	228	7.657	7.663	(1.002)	6311	0.55953	247.6815
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.961)	5945	0.59678	264.1712(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.963)	4570	0.40542	179.4628(QMH)
22 Benzo(a)pyrene	252	8.745	8.751	(0.993)	4591	0.44584	197.3571
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	2691	0.27881	123.4180(H)

QC Flag Legend

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

Data File: 1CD11026.D

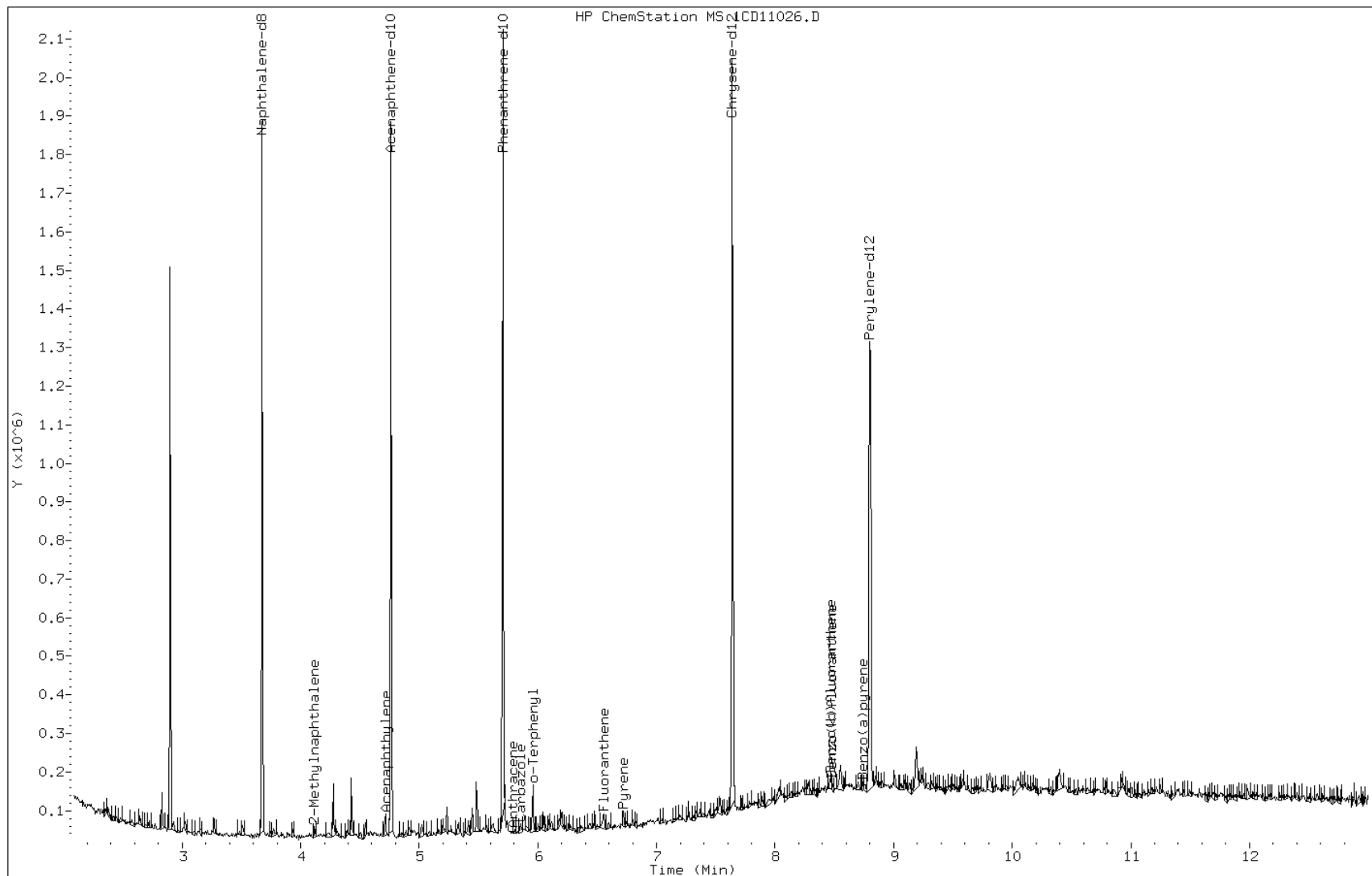
Date: 11-APR-2013 19:26

Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

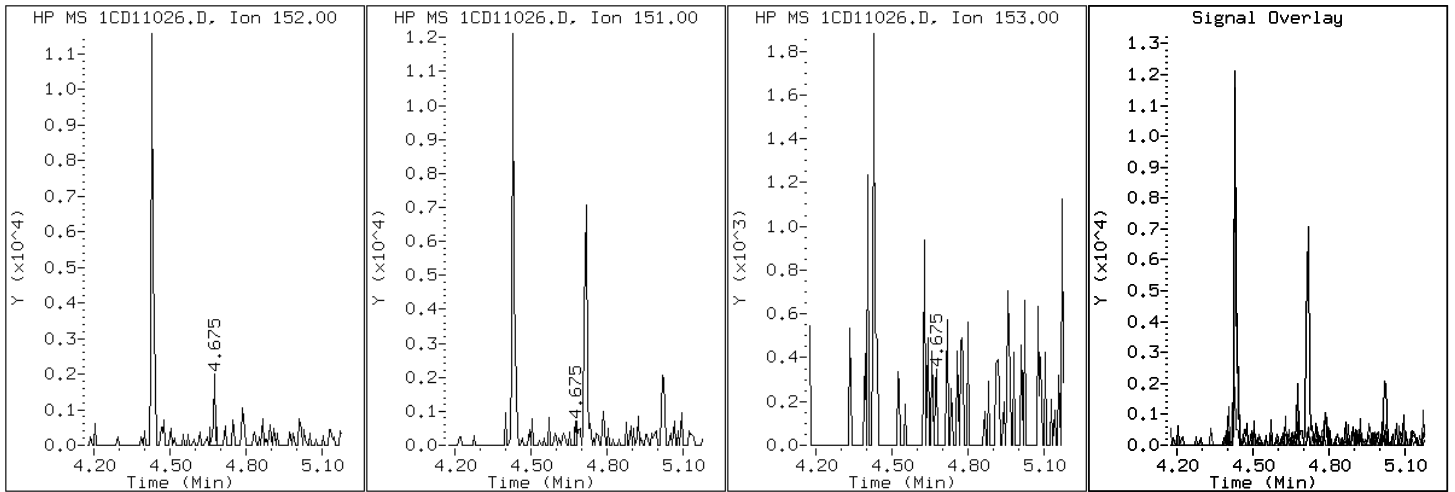
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

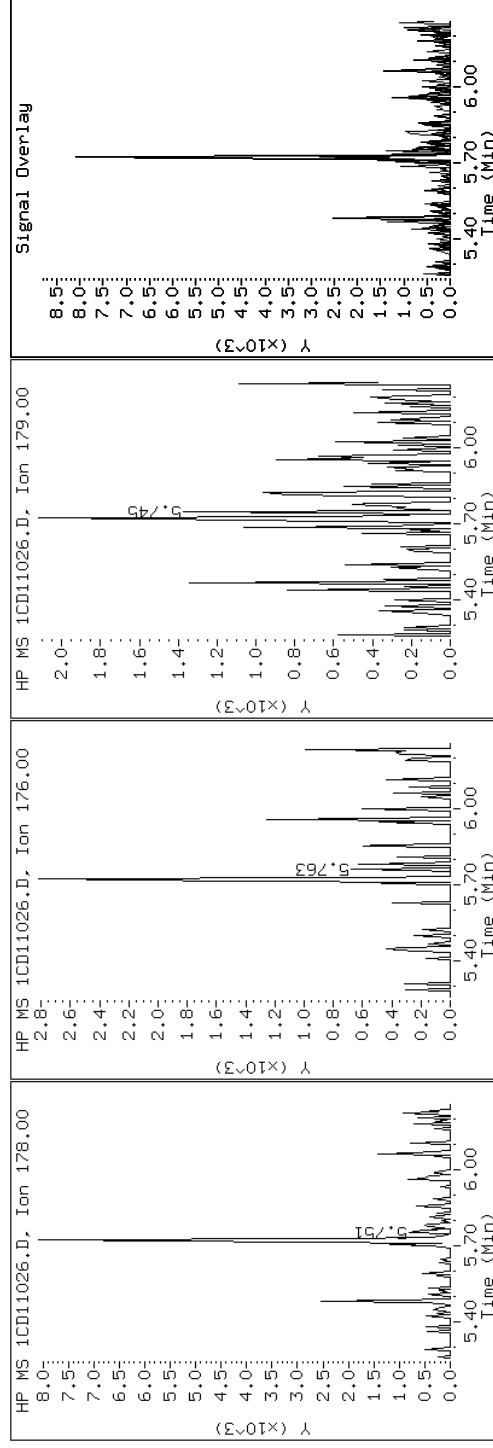
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

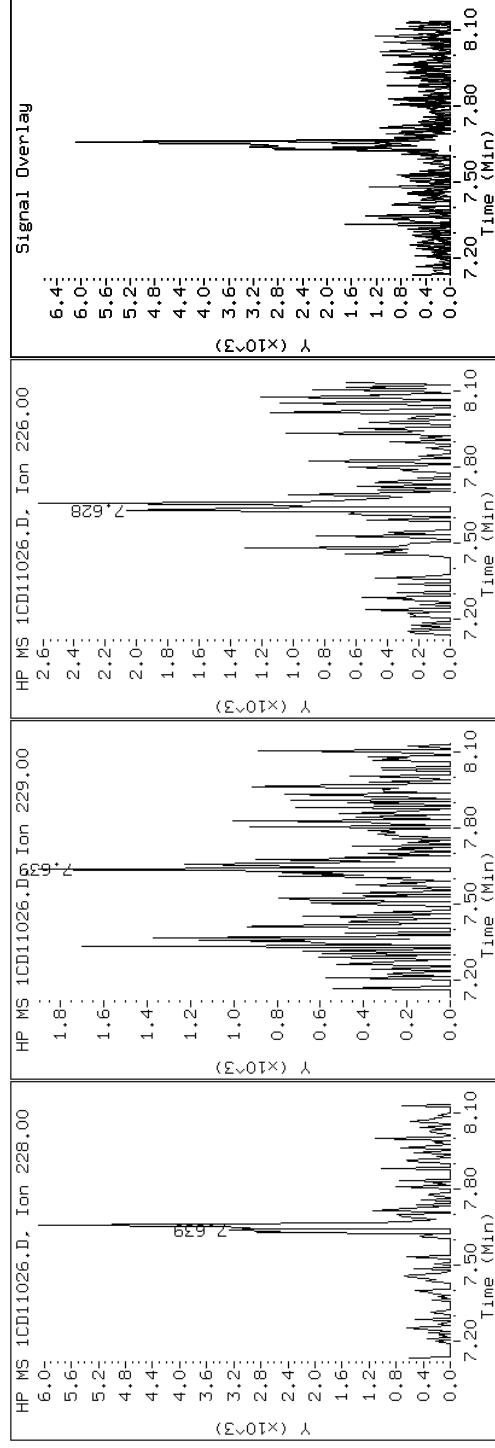
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

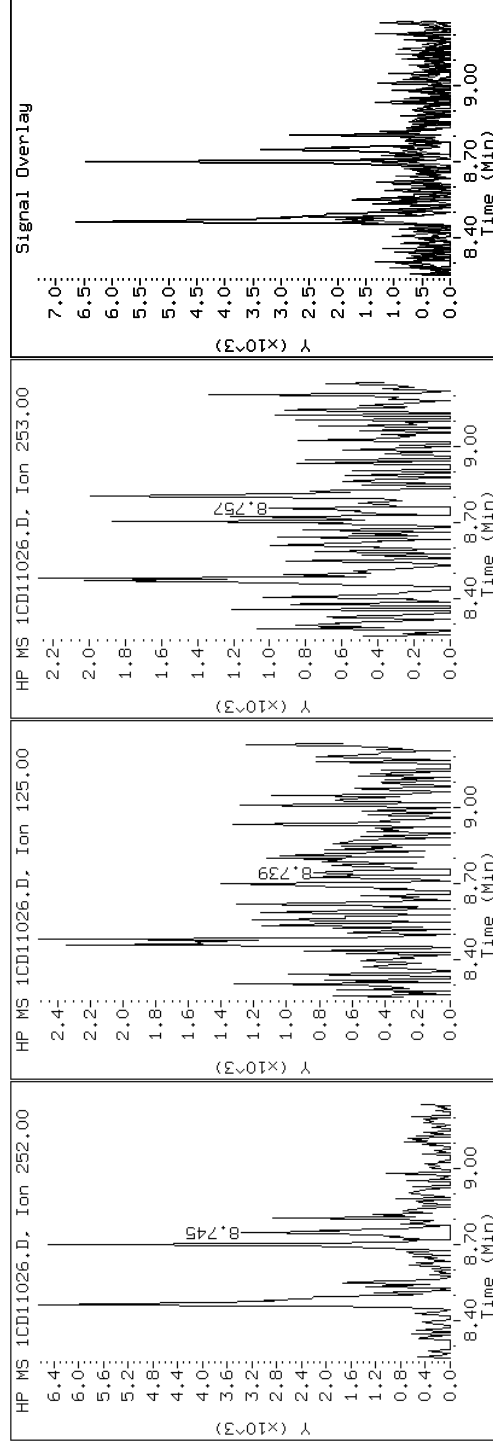
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

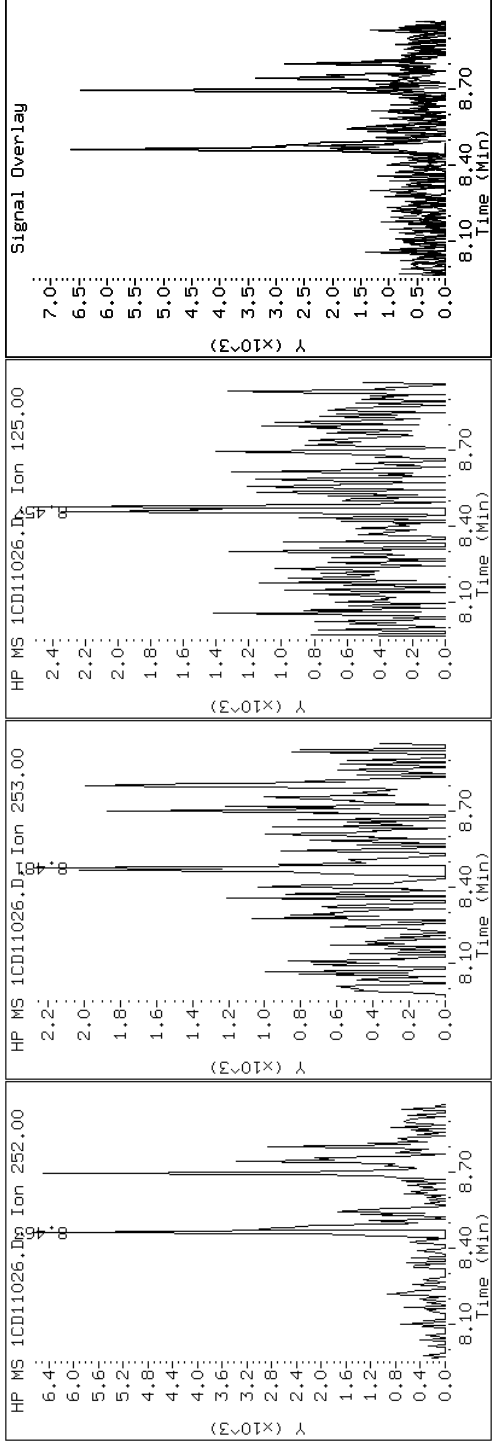
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

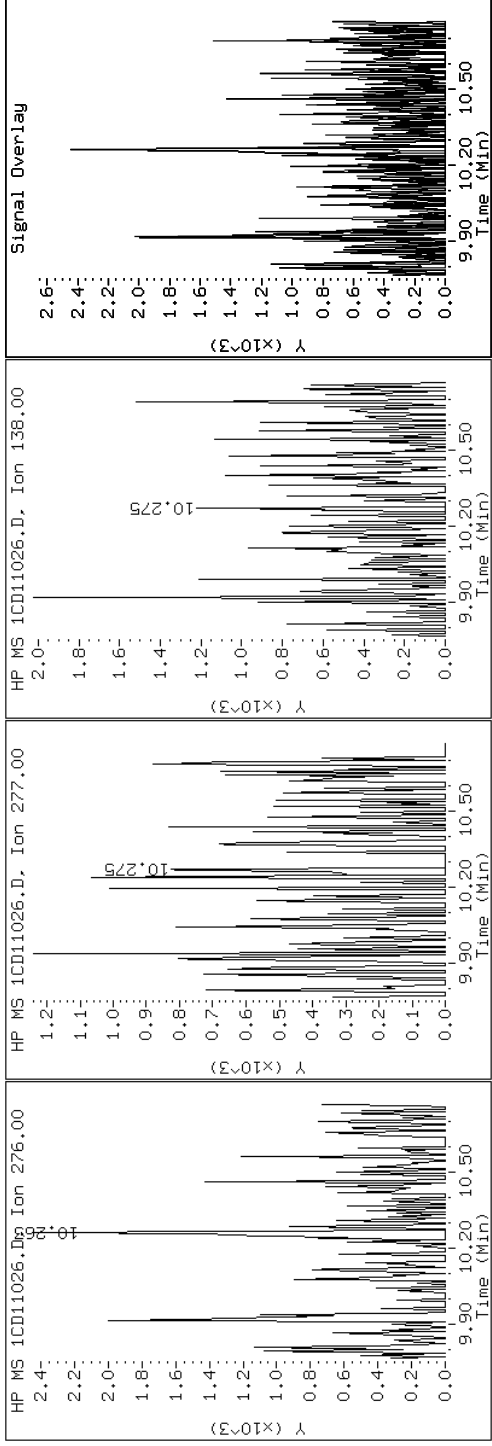
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

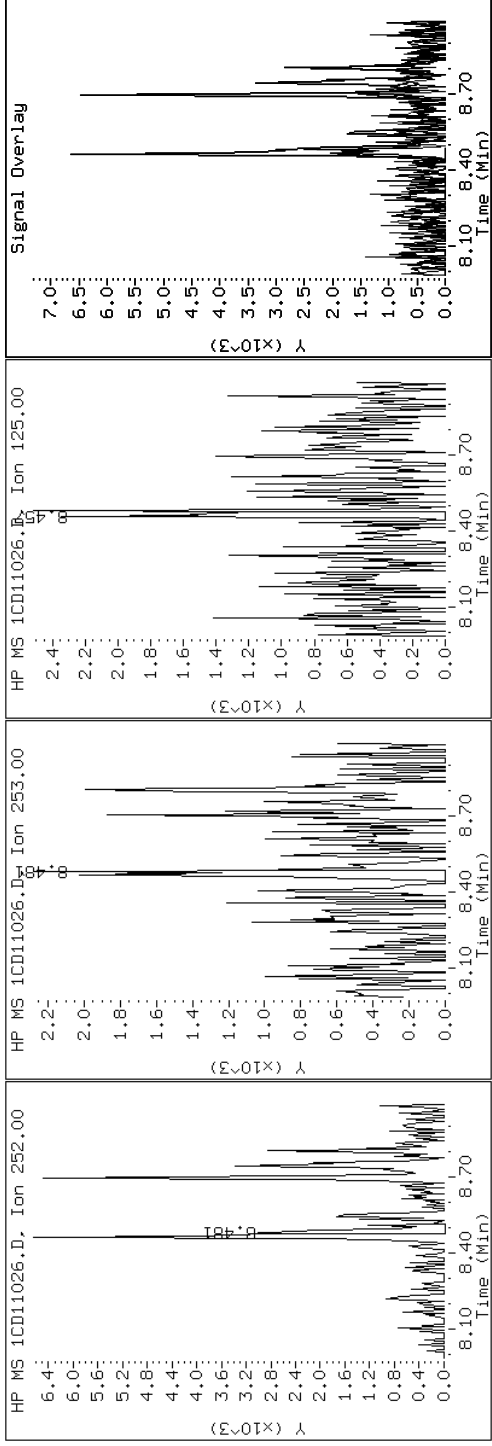
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

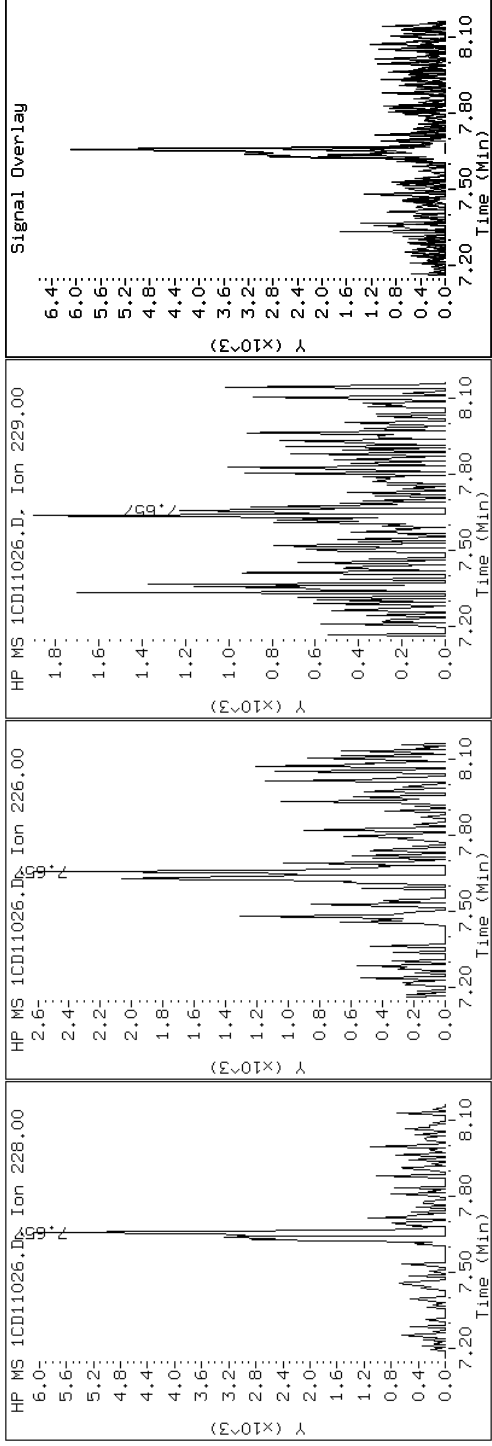
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

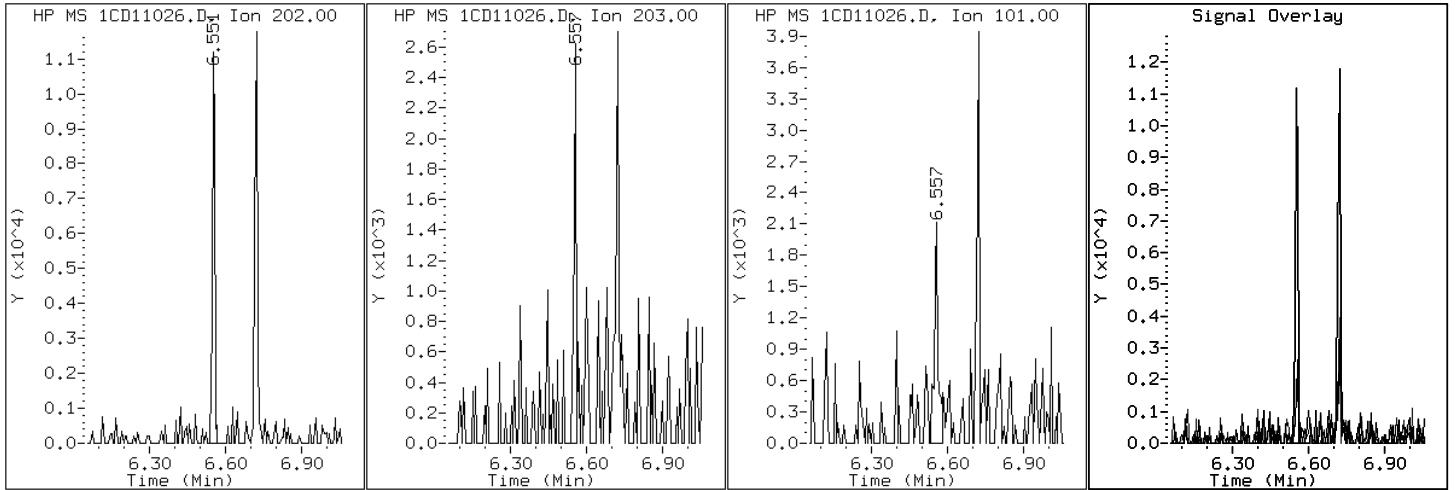
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

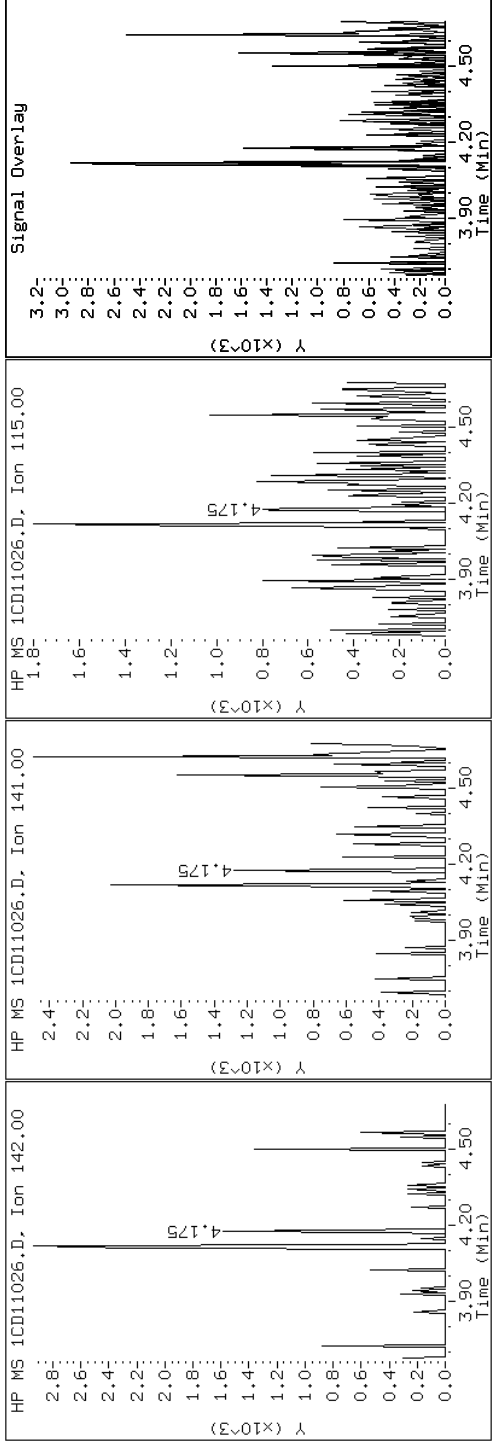
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

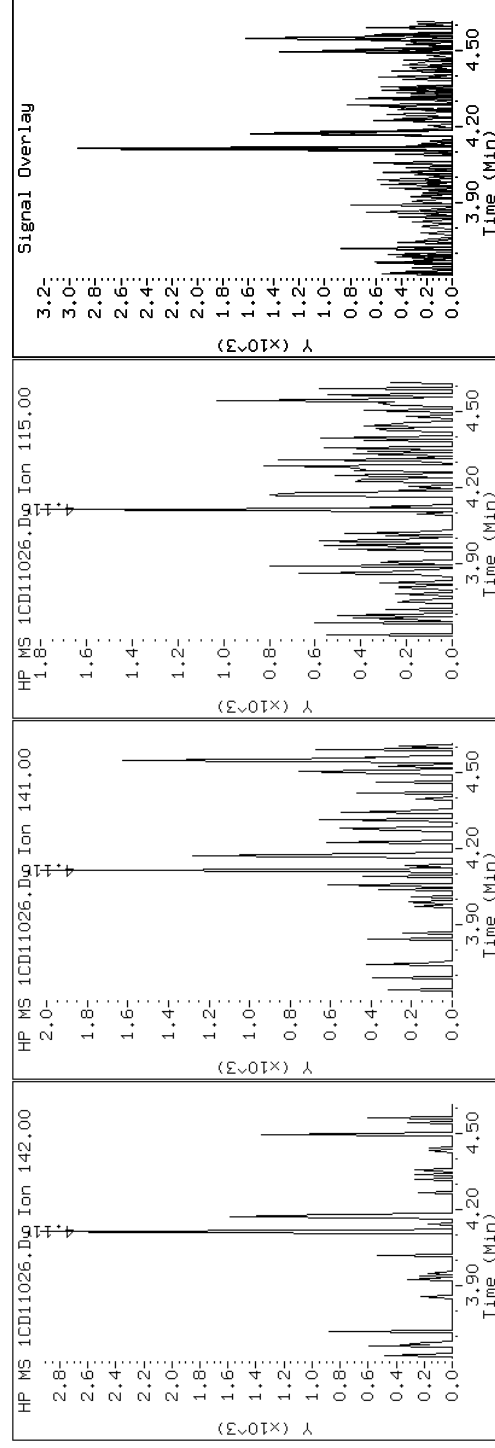
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

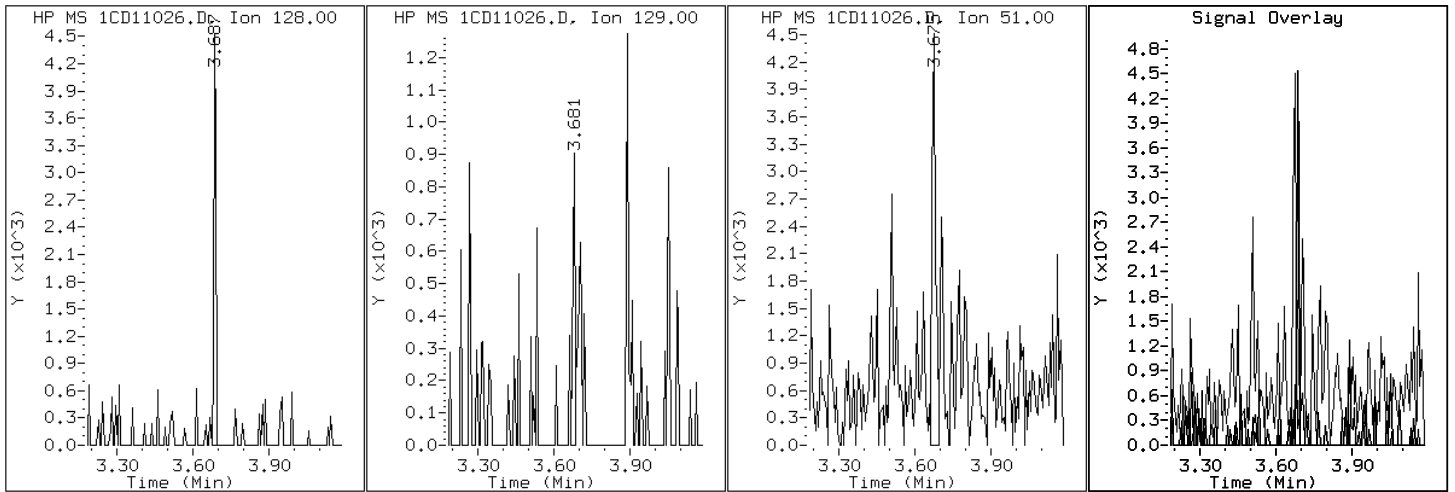
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

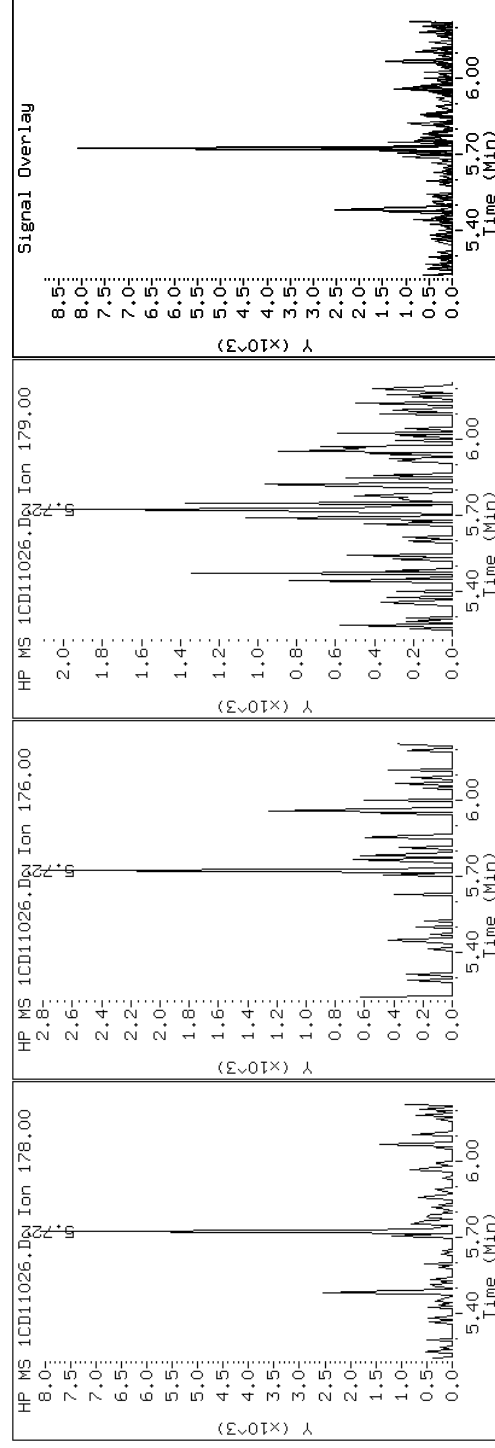
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11026.D

Date: 11-APR-2013 19:26

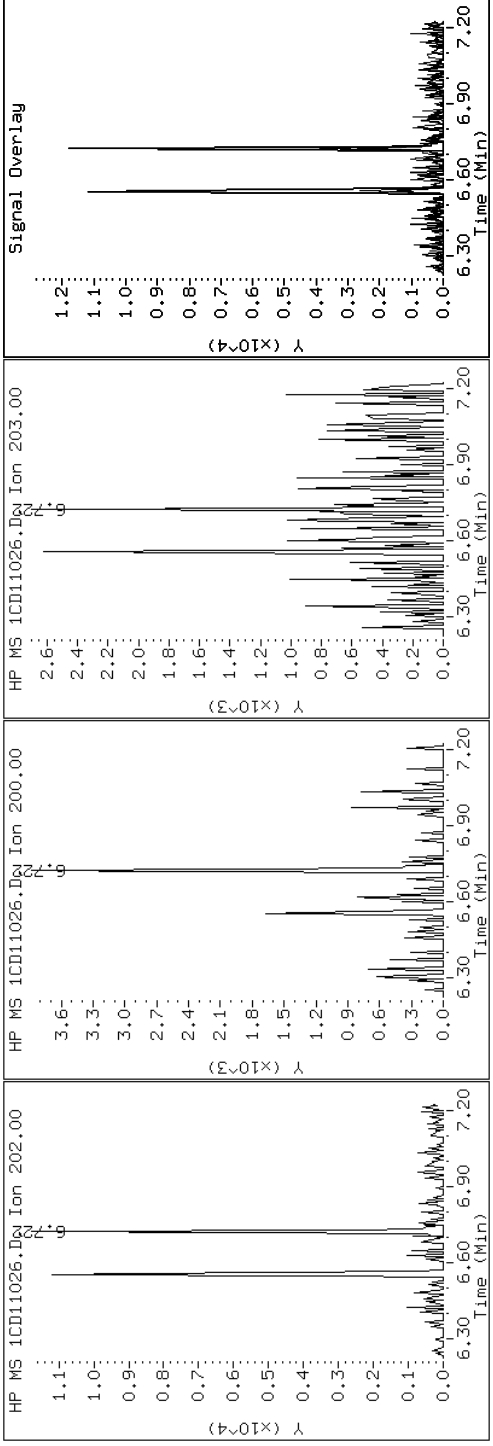
Client ID: CV0052B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-8-a

Operator: SCC

16 Pyrene

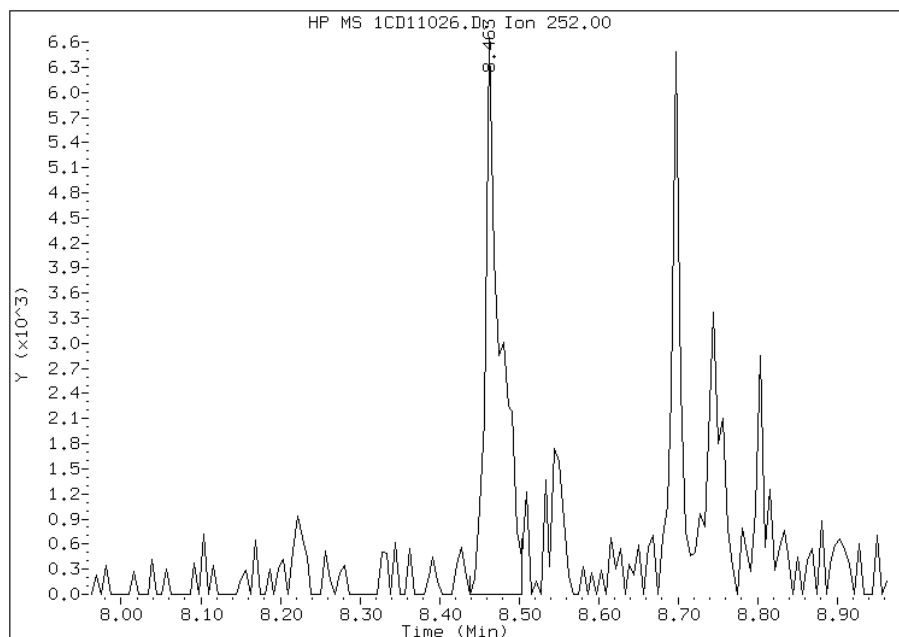


Manual Integration Report

Data File: 1CD11026.D
Inj. Date and Time: 11-APR-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0052B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

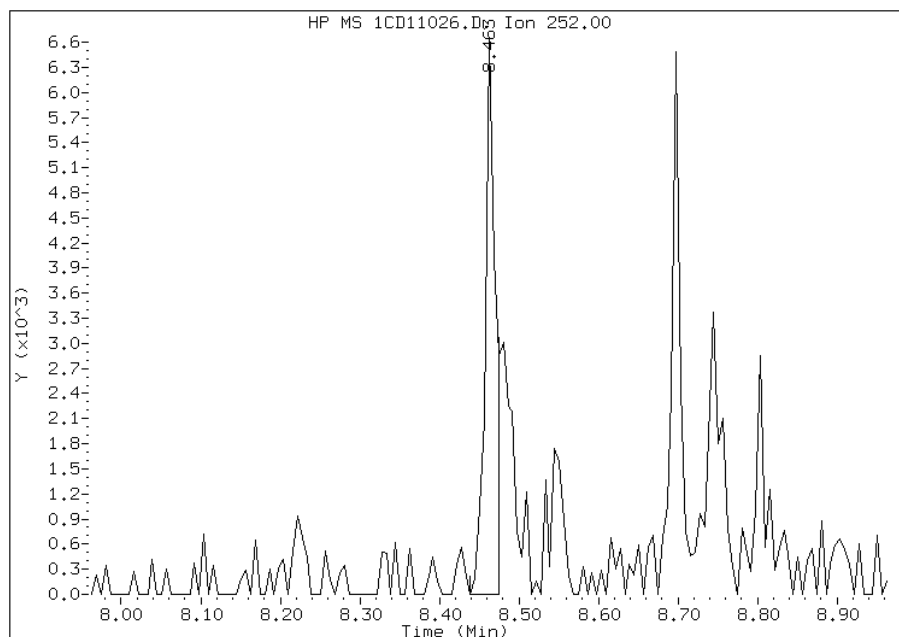
Processing Integration Results

RT: 8.46
Response: 8998
Amount: 1
Conc: 400



Manual Integration Results

RT: 8.46
Response: 5945
Amount: 1
Conc: 264



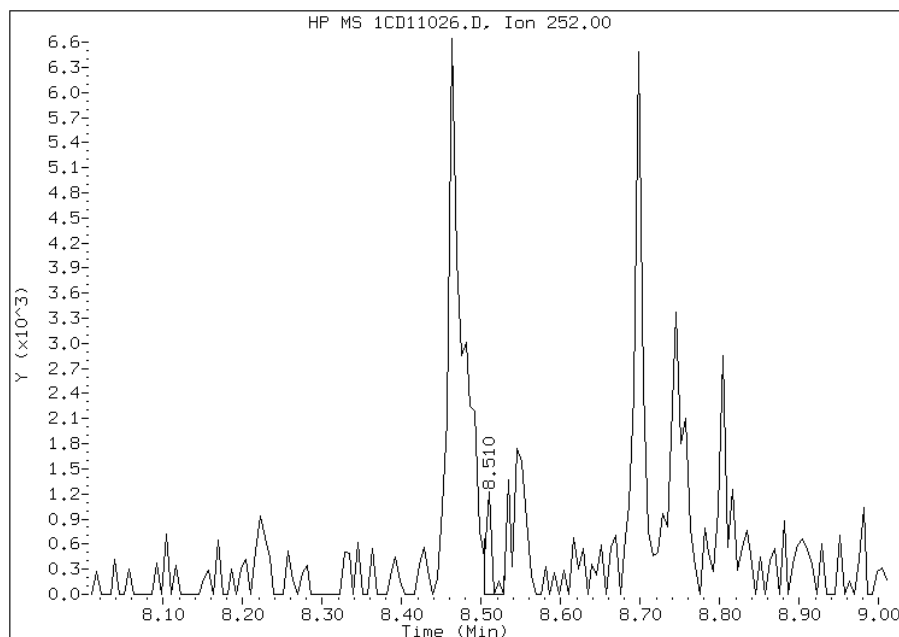
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11026.D
Inj. Date and Time: 11-APR-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0052B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

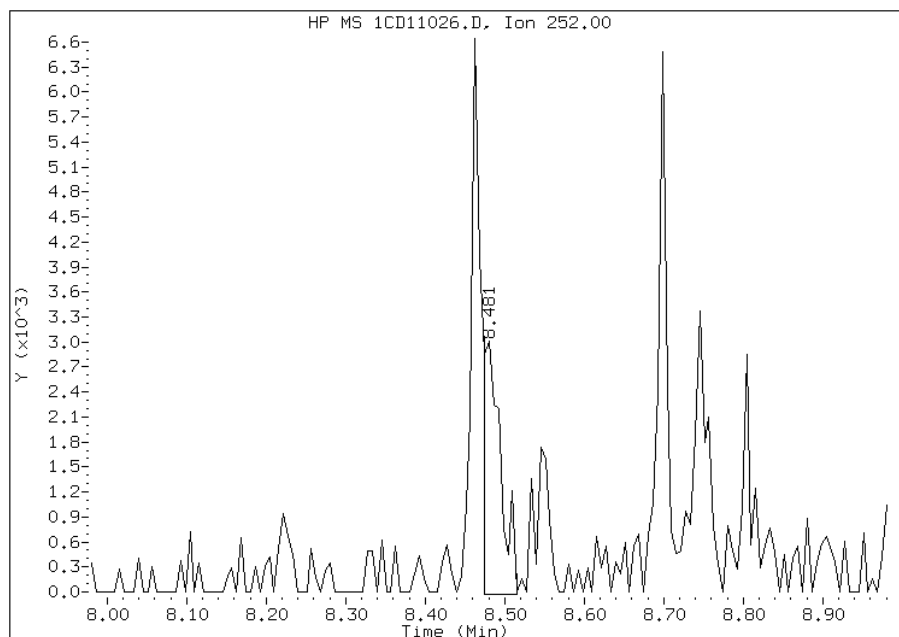
Processing Integration Results

RT: 8.51
Response: 644
Amount: 0
Conc: 25



Manual Integration Results

RT: 8.48
Response: 4570
Amount: 0
Conc: 179



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:16
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0053A-CS Lab Sample ID: 680-89038-9
 Matrix: Solid Lab File ID: 1CD11027.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:10
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.01(g) Date Analyzed: 04/11/2013 19:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	67	U	67	8.4
120-12-7	Anthracene	19		14	7.0
56-55-3	Benzo[a]anthracene	13	U	13	6.5
50-32-8	Benzo[a]pyrene	62		17	8.7
205-99-2	Benzo[b]fluoranthene	77		20	10
191-24-2	Benzo[g,h,i]perylene	48		34	7.4
207-08-9	Benzo[k]fluoranthene	20		13	6.0
218-01-9	Chrysene	65		15	7.5
53-70-3	Dibenz(a,h)anthracene	34	U	34	6.9
206-44-0	Fluoranthene	85		34	6.7
86-73-7	Fluorene	34	U	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	100		34	12
90-12-0	1-Methylnaphthalene	55	J	67	7.4
91-57-6	2-Methylnaphthalene	100		67	12
91-20-3	Naphthalene	100		67	7.4
85-01-8	Phenanthrene	100		13	6.5
129-00-0	Pyrene	57		34	6.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11027.D
 Lab Smp Id: 680-89038-A-9-A Client Smp ID: CV0053A-CS
 Inj Date : 11-APR-2013 19:44
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-9-a
 Misc Info : 680-89038-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	40.370	% 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		3.674	3.675	(1.000)	311111	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	215608	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	382469	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	33205	5.93239	662.8068	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	510384	40.0000		
* 23 Perylene-d12	264		8.803	8.798	(1.000)	409026	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	7495	0.89122	99.5731	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	3714	0.93305	104.2464	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	2654	0.49406	55.1991	
11 Phenanthrene	178		5.721	5.722	(1.003)	10083	0.90477	101.0867	
12 Anthracene	178		5.757	5.757	(1.009)	1899	0.17103	19.1083	
13 Carbazole	167		5.862	5.863	(1.028)	2092	0.20230	22.6019(Q)	
15 Fluoranthene	202		6.551	6.557	(1.148)	9473	0.76350	85.3030	
16 Pyrene	202		6.721	6.722	(0.880)	7363	0.50710	56.6563	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.656	7.663	(1.002)	8338	0.58400	65.2479
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.961)	7074	0.68474	76.5035
21 Benzo(k)fluoranthene	252	8.492	8.486	(0.965)	2097	0.17938	20.0419
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	5925	0.55483	61.9893
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	3005	0.92266	103.0852(M)
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	4286	0.42820	47.8409

QC Flag Legend

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

Data File: 1CD11027.D

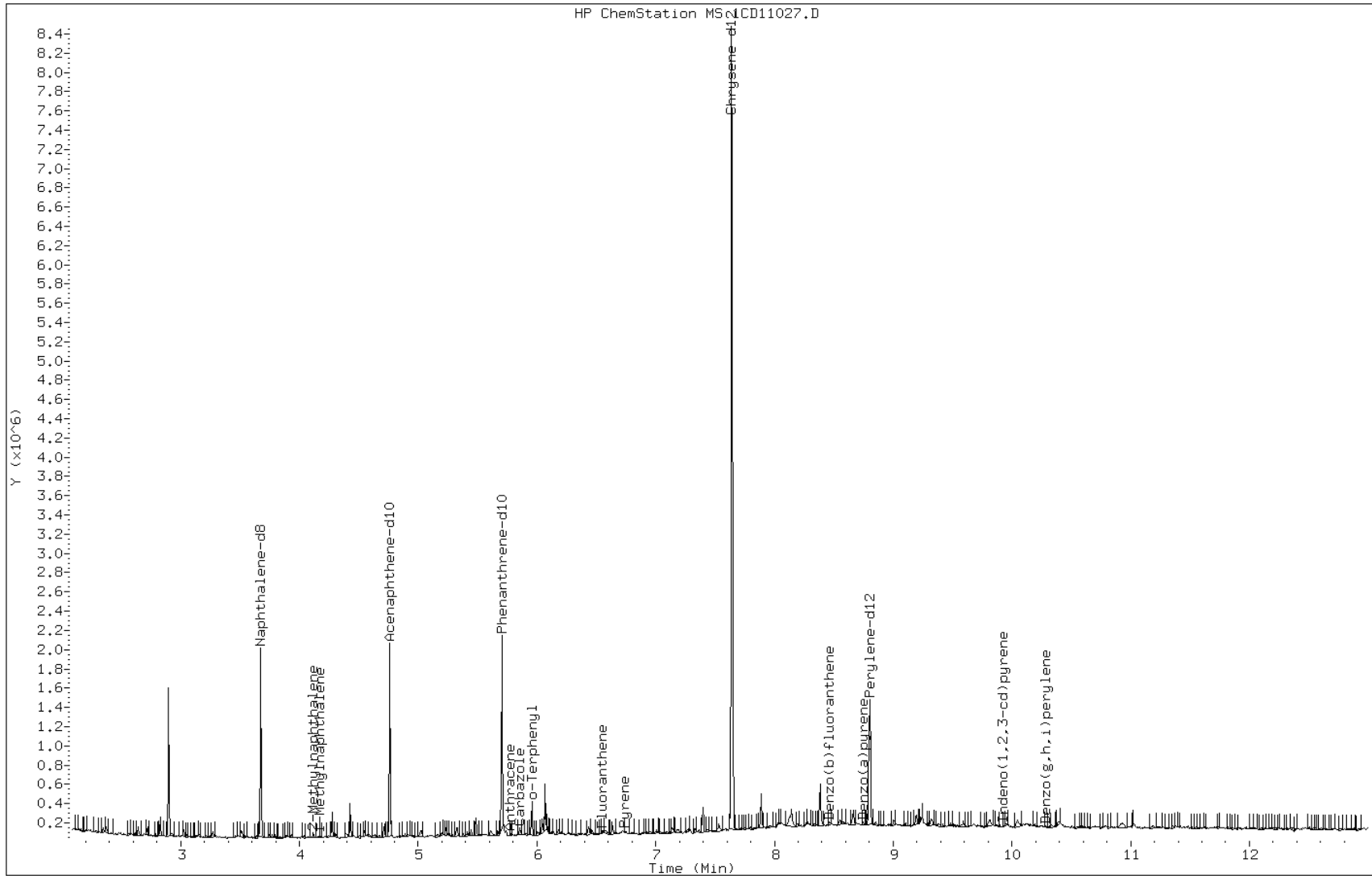
Date: 11-APR-2013 19:44

Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

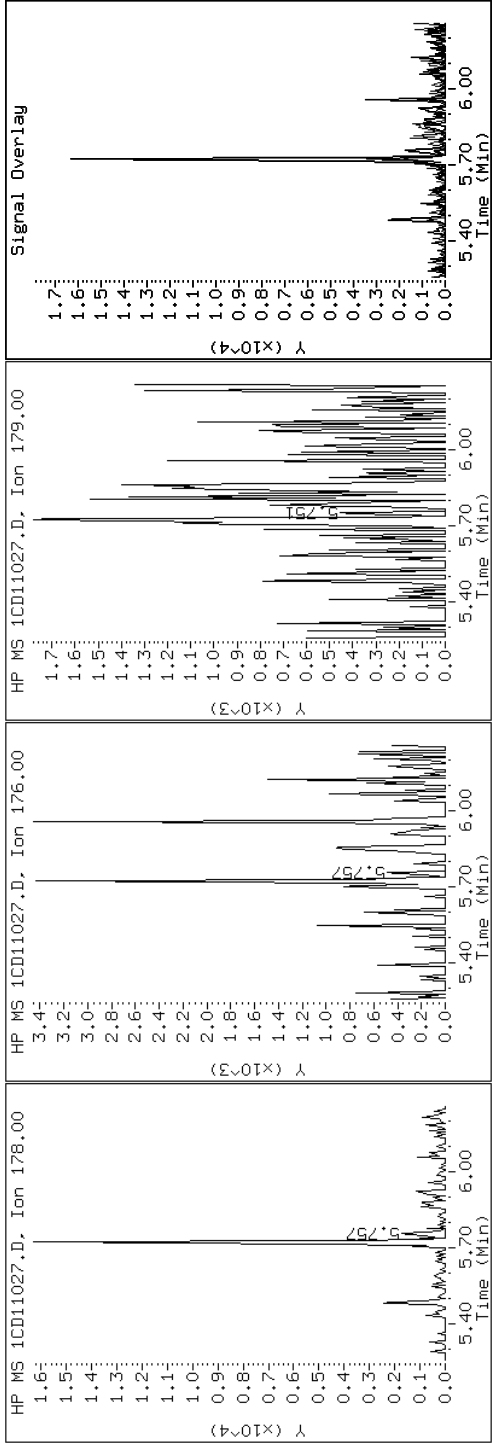
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

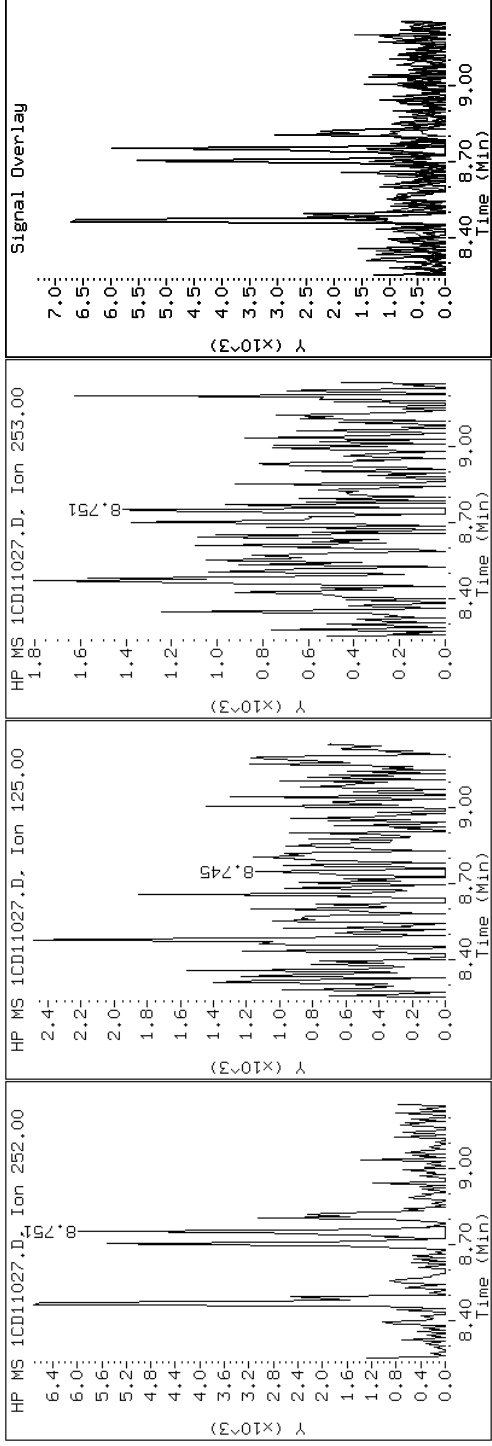
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

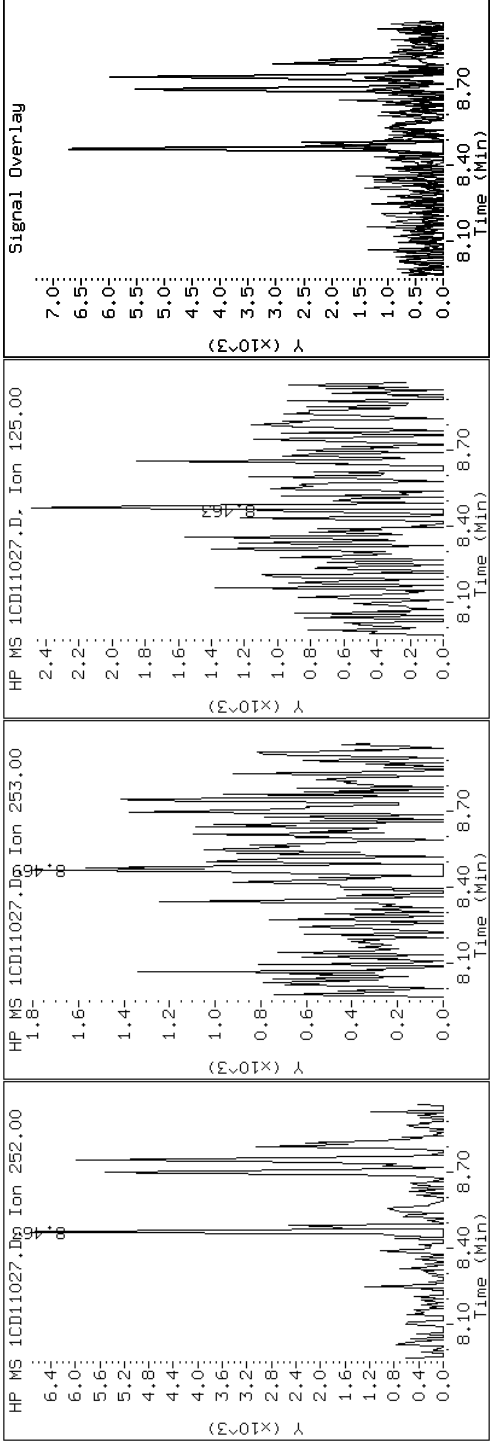
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

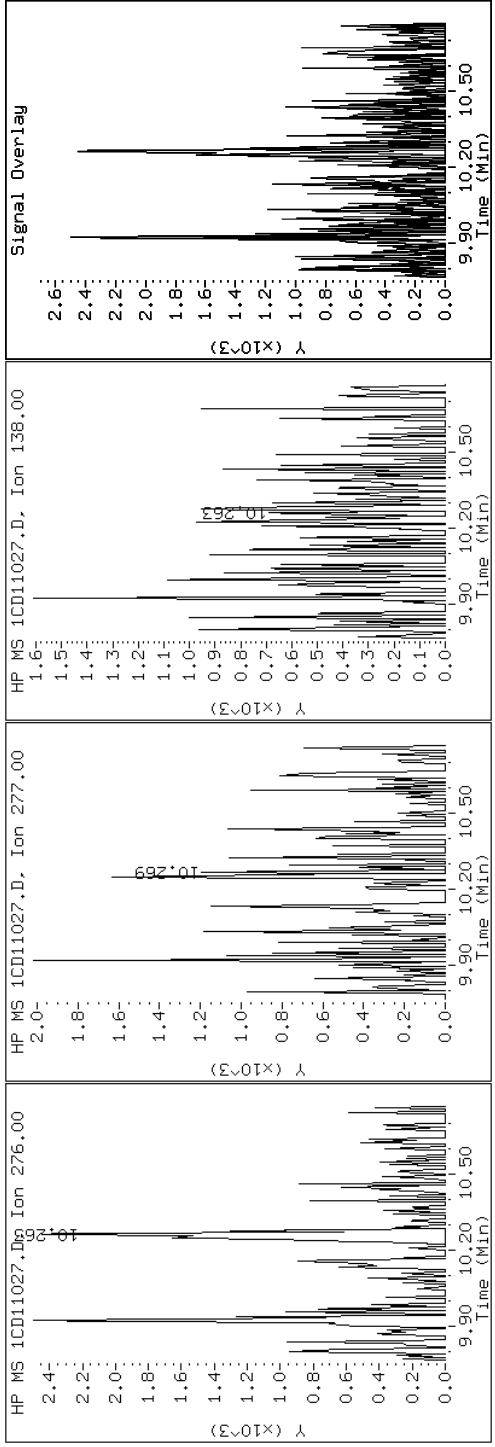
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

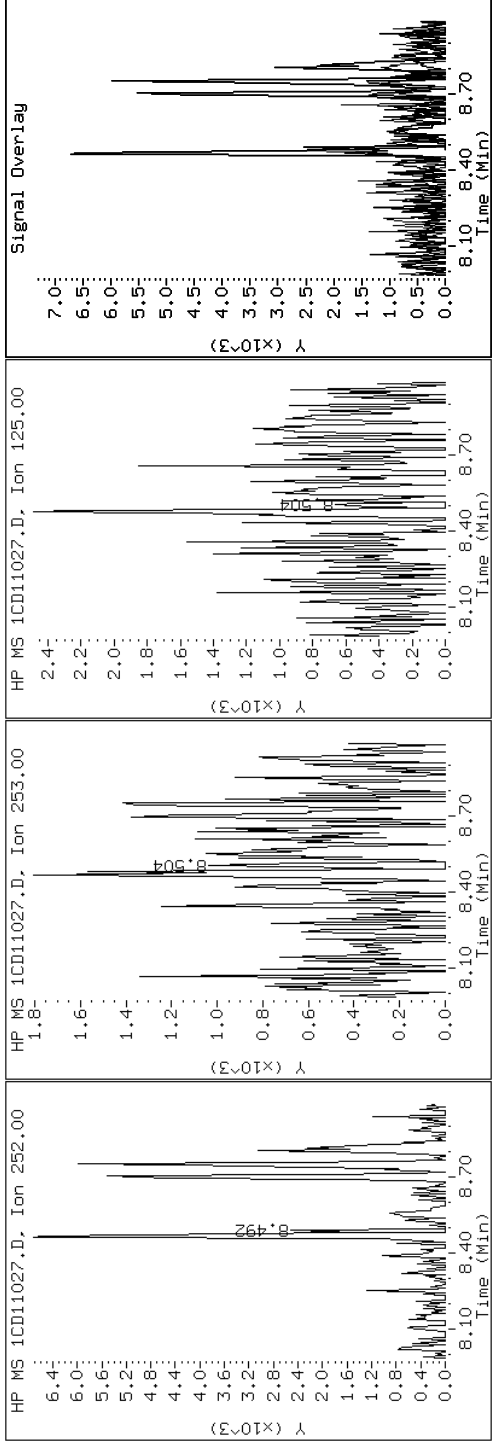
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

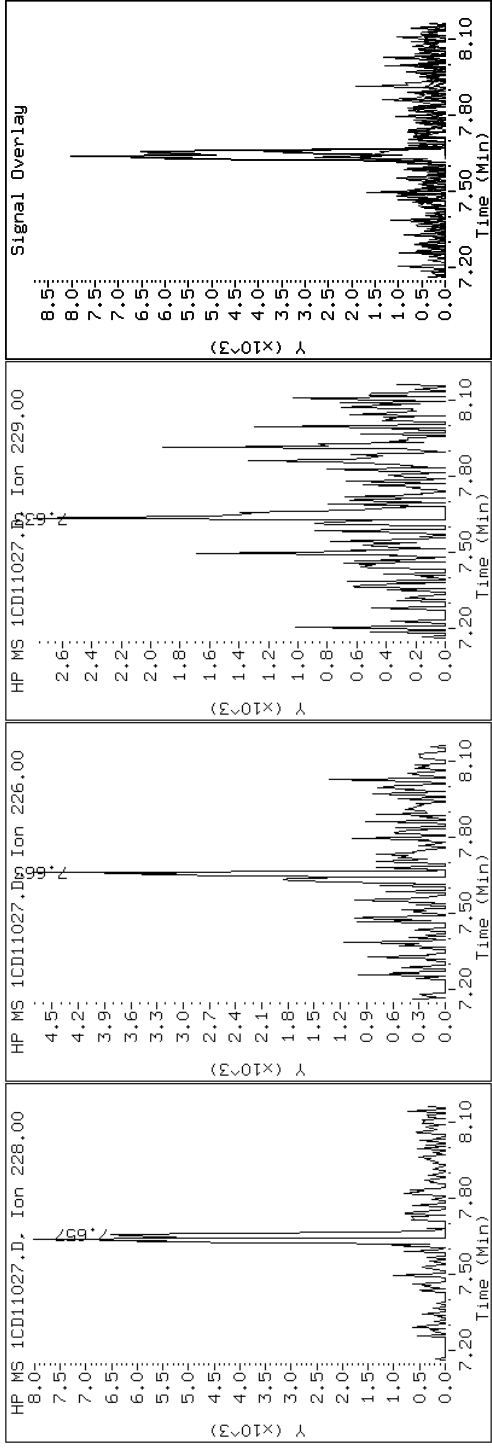
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

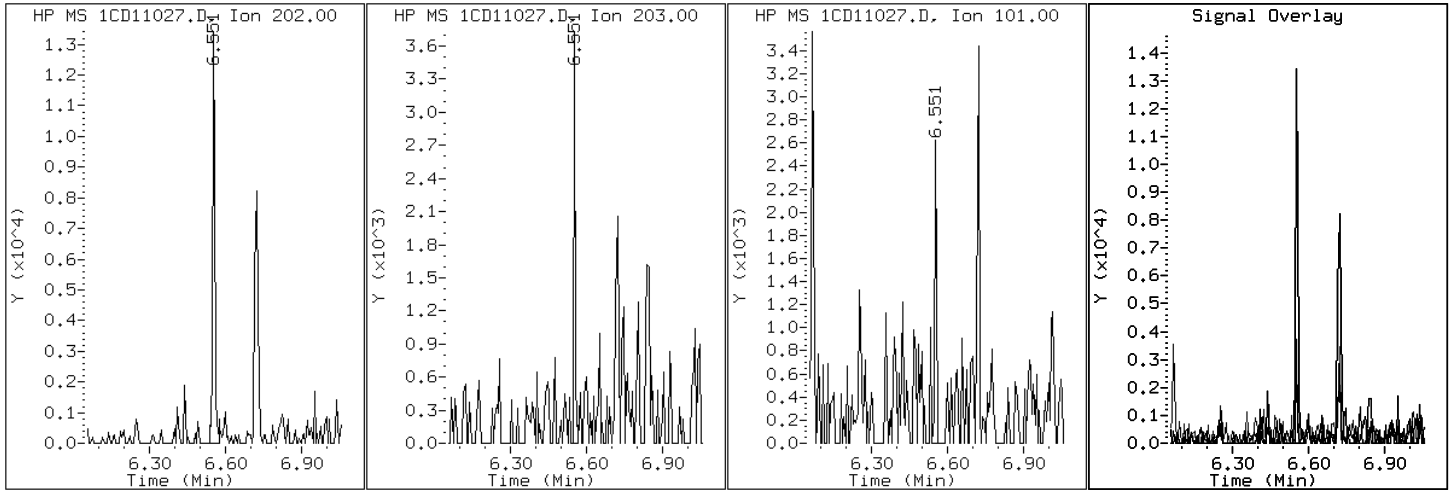
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

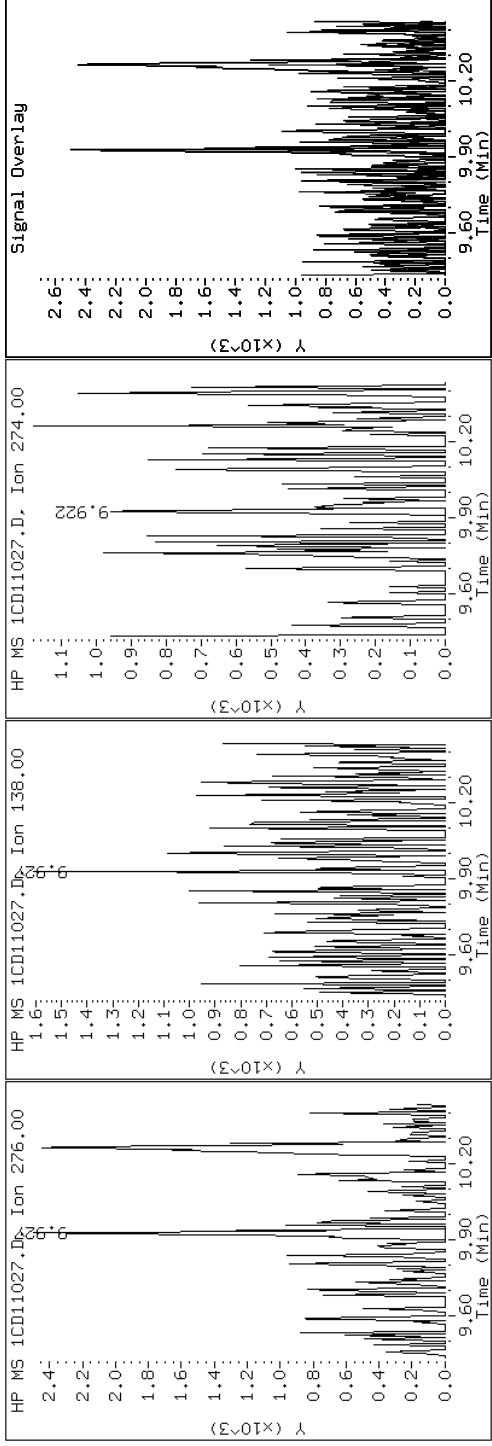
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

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



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

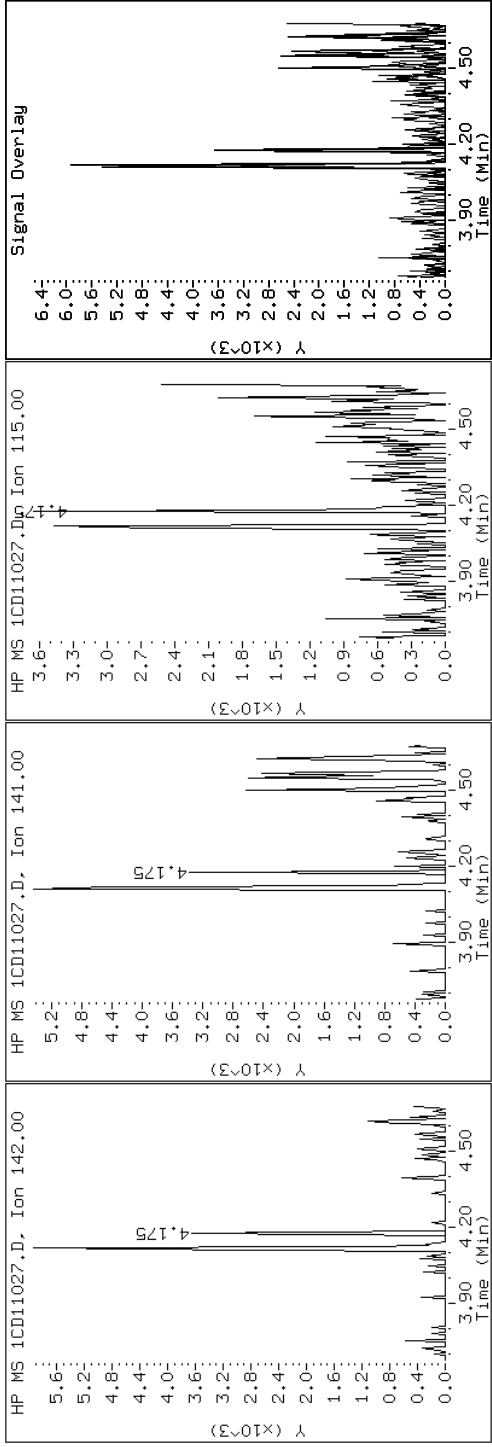
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

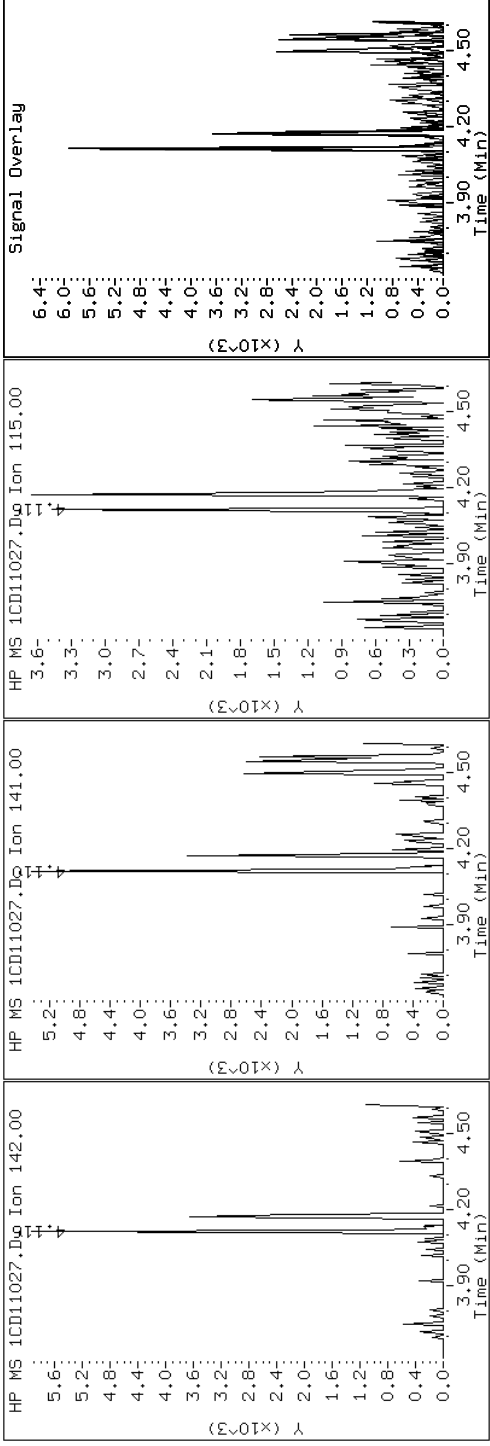
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

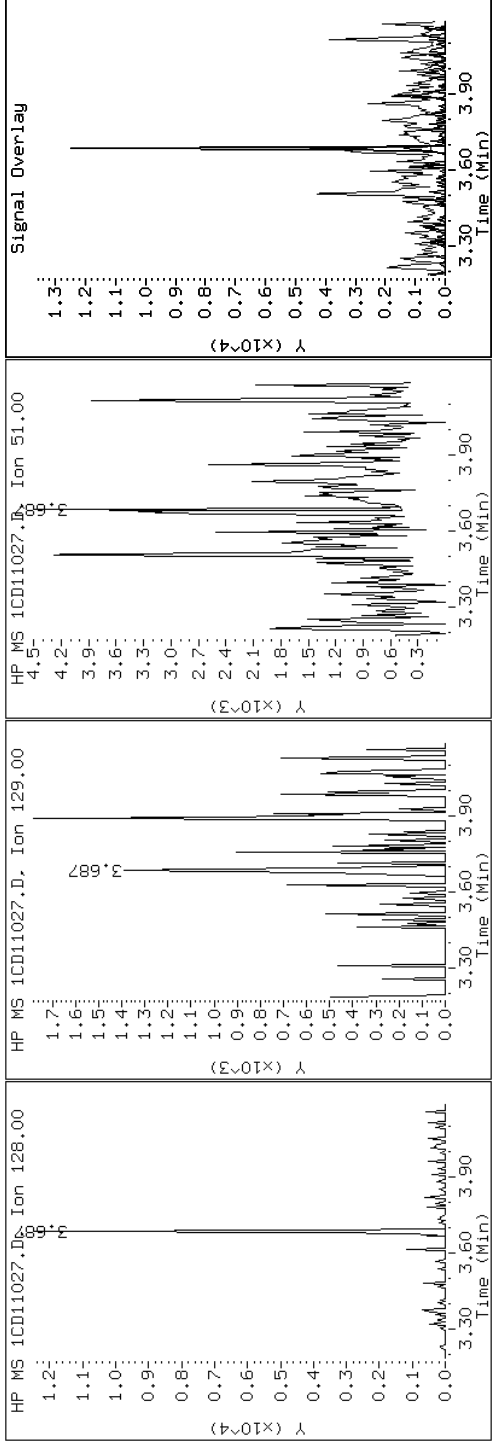
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

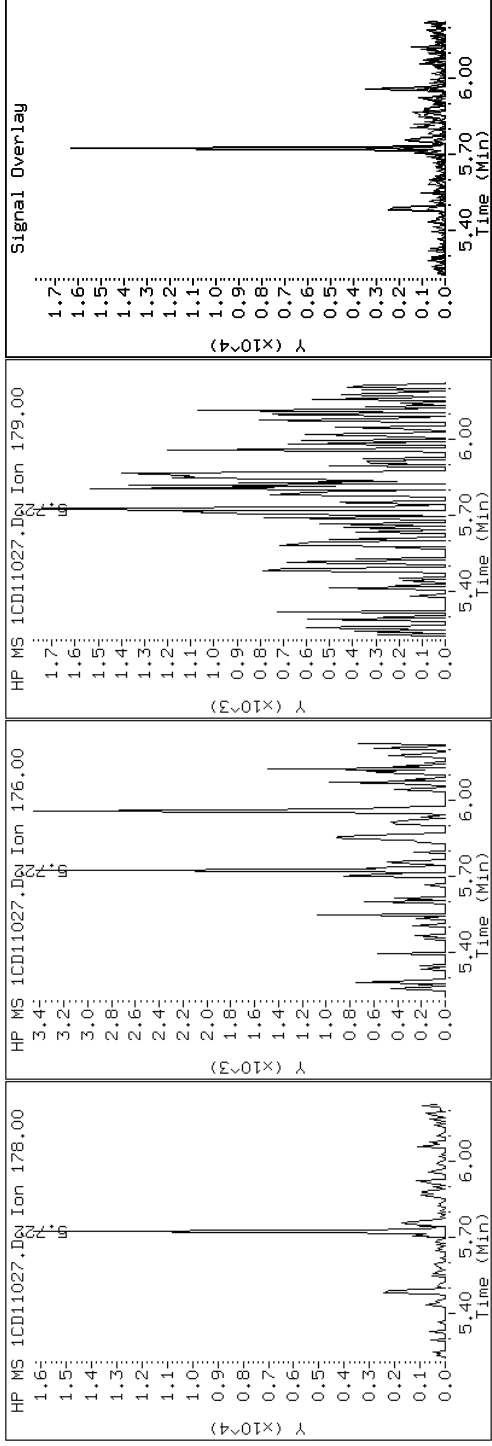
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11027.D

Date: 11-APR-2013 19:44

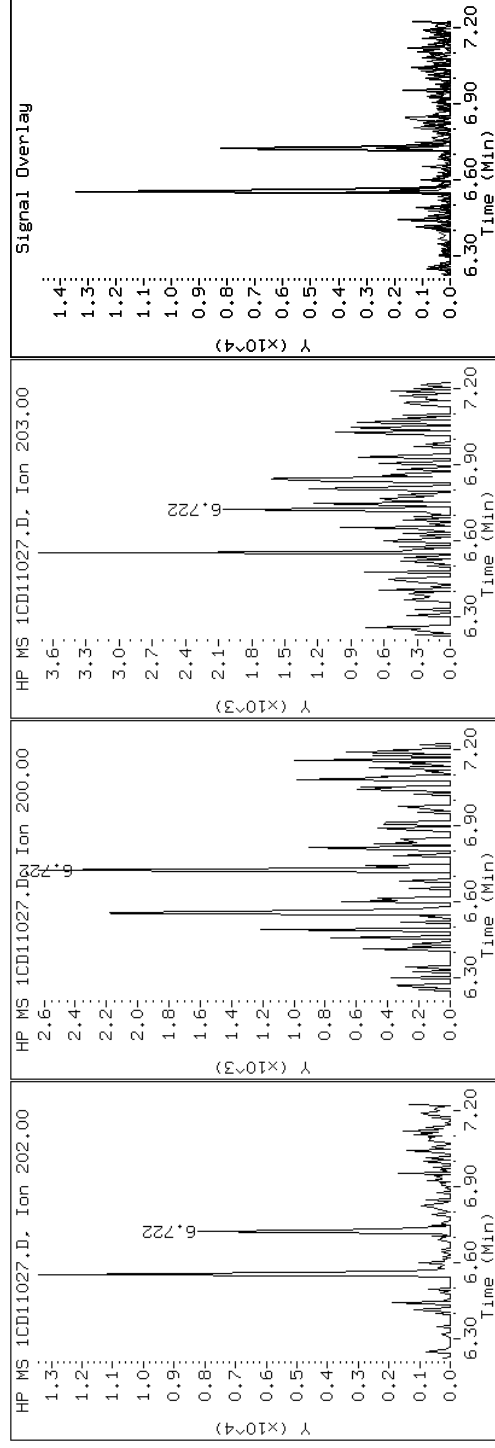
Client ID: CV0053A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-9-a

Operator: SCC

16 Pyrene

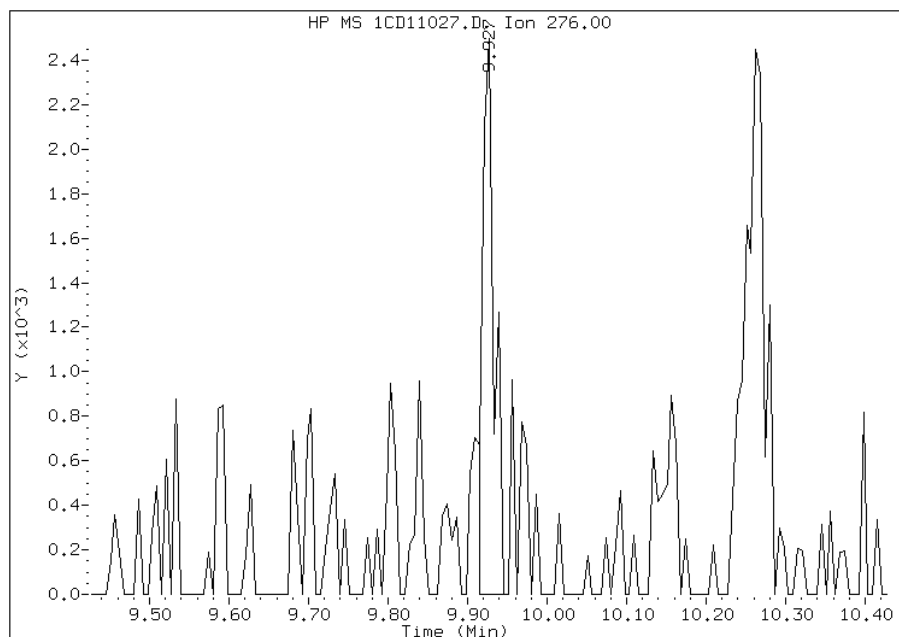


Manual Integration Report

Data File: 1CD11027.D
Inj. Date and Time: 11-APR-2013 19:44
Instrument ID: BSMC5973.i
Client ID: CV0053A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

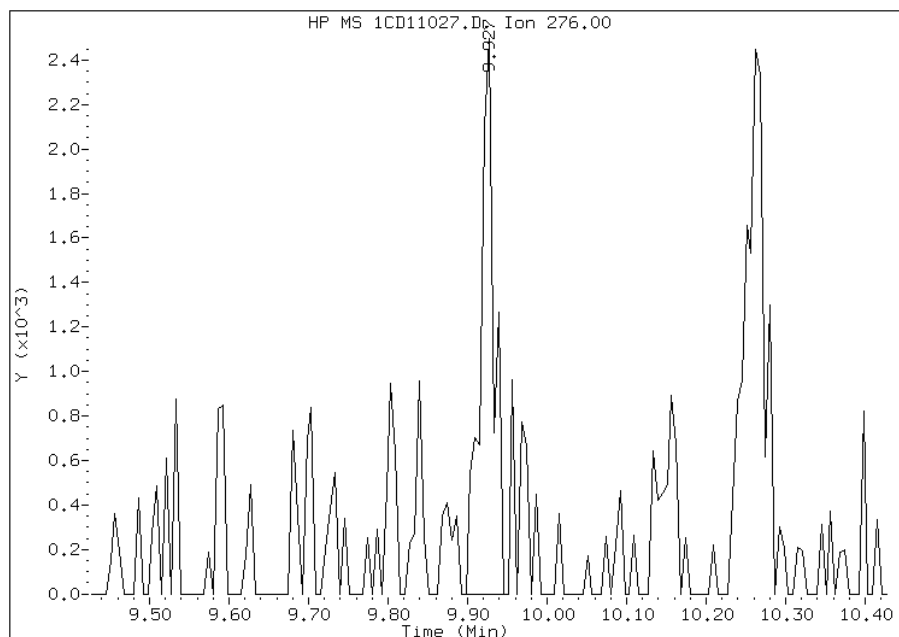
Processing Integration Results

RT: 9.93
Response: 2559
Amount: 1
Conc: 98



Manual Integration Results

RT: 9.93
Response: 3005
Amount: 1
Conc: 103



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:17
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0053A-CSD Lab Sample ID: 680-89038-10
 Matrix: Solid Lab File ID: 1CD11028.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:15
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.18(g) Date Analyzed: 04/11/2013 20:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	63	J	230	28
120-12-7	Anthracene	72		48	24
56-55-3	Benzo[a]anthracene	45	U	45	22
50-32-8	Benzo[a]pyrene	220		59	29
205-99-2	Benzo[b]fluoranthene	320		69	35
191-24-2	Benzo[g,h,i]perylene	170		110	25
207-08-9	Benzo[k]fluoranthene	65		45	20
218-01-9	Chrysene	240		51	26
53-70-3	Dibenz(a,h)anthracene	110	U	110	23
206-44-0	Fluoranthene	290		110	23
86-73-7	Fluorene	36	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	360		110	40
90-12-0	1-Methylnaphthalene	140	J	230	25
91-57-6	2-Methylnaphthalene	330		230	40
91-20-3	Naphthalene	250		230	25
85-01-8	Phenanthrene	310		45	22
129-00-0	Pyrene	220		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11028.D
 Lab Smp Id: 680-89038-A-10-A Client Smp ID: CV0053A-CSD
 Inj Date : 11-APR-2013 20:03
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-10-a
 Misc Info : 680-89038-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	30.261	% 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		3.675	3.675	(1.000)	317293	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	219776	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	372805	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	10839	2.44539	923.9768	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	407549	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	385365	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	5628	0.65618	247.9338	
3 2-Methylnaphthalene	142		4.110	4.115	(1.118)	3507	0.88410	334.0509	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	1981	0.36159	136.6241	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1544	0.16579	62.6446(Q)	
9 Fluorene	166		5.104	5.104	(1.072)	676	0.09465	35.7635(Q)	
11 Phenanthrene	178		5.721	5.722	(1.003)	8900	0.82007	309.8574	
12 Anthracene	178		5.757	5.757	(1.009)	2060	0.19034	71.9176	
13 Carbazole	167		5.863	5.863	(1.028)	1985	0.19693	74.4073	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.551	6.557	(1.148)	9301	0.76907	290.5879
16 Pyrene	202	6.721	6.722	(0.880)	6850	0.59081	223.2327
19 Chrysene	228	7.662	7.663	(1.003)	7211	0.63250	238.9867
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	8226	0.84514	319.3304(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.963)	1886	0.17124	64.7020(QMH)
22 Benzo(a)pyrene	252	8.751	8.751	(0.994)	5792	0.57568	217.5164
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	3085	0.94805	358.2153(MH)
26 Benzo(g,h,i)perylene	276	10.268	10.269	(1.166)	4345	0.46074	174.0895

QC Flag Legend

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

Data File: 1CD11028.D

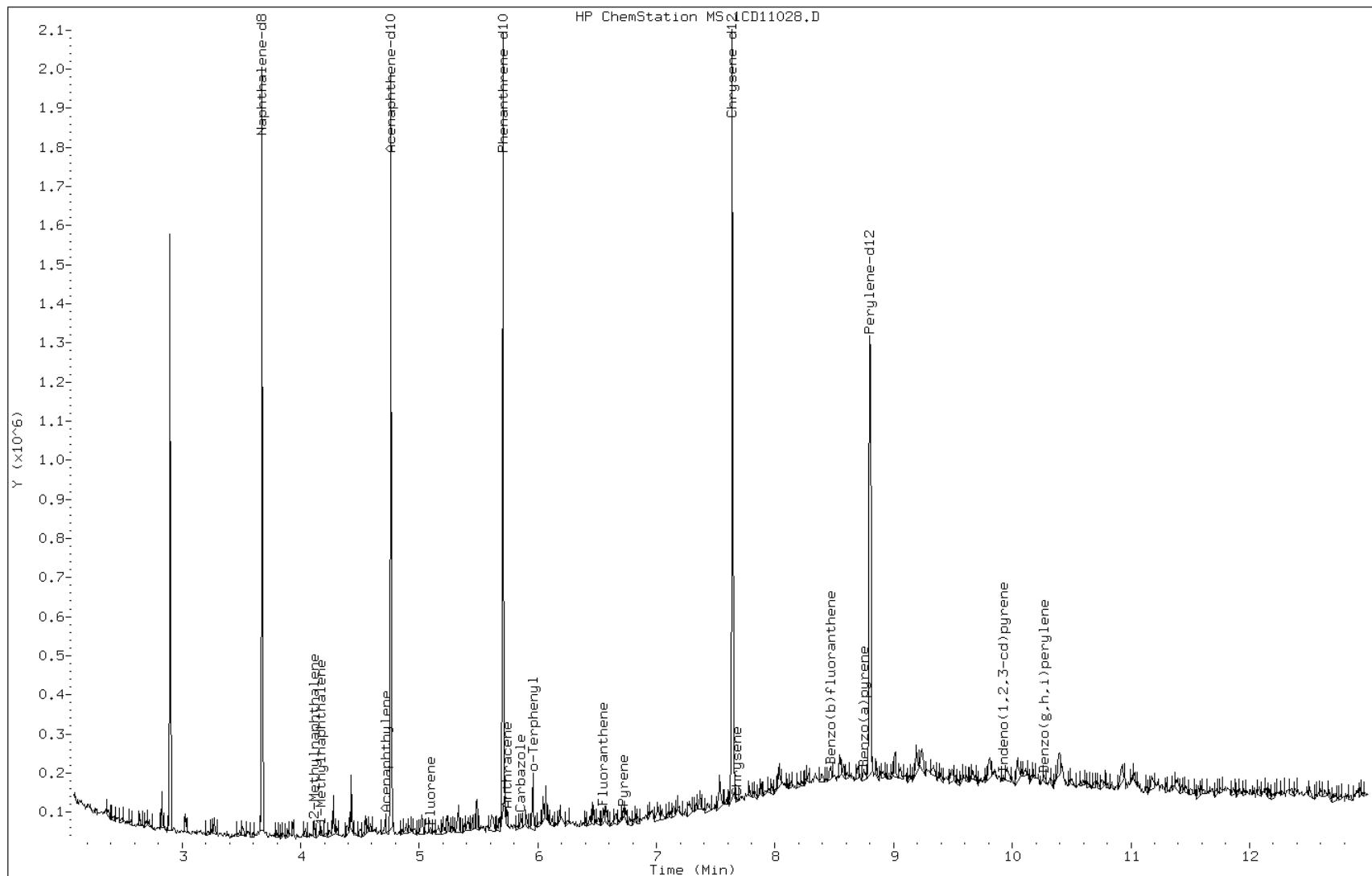
Date: 11-APR-2013 20:03

Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

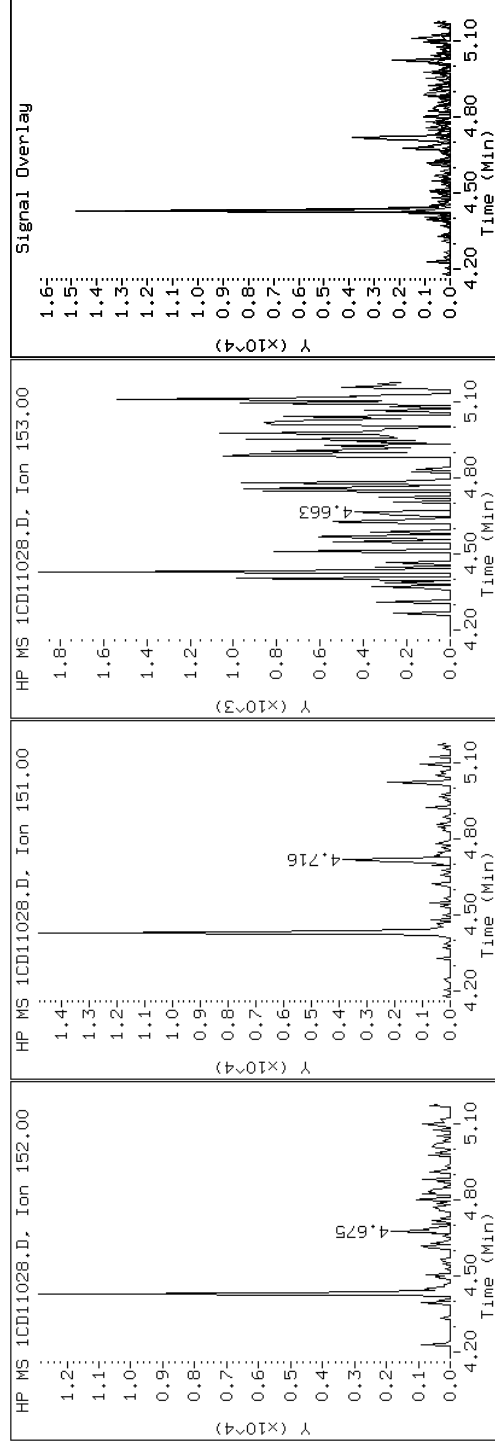
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

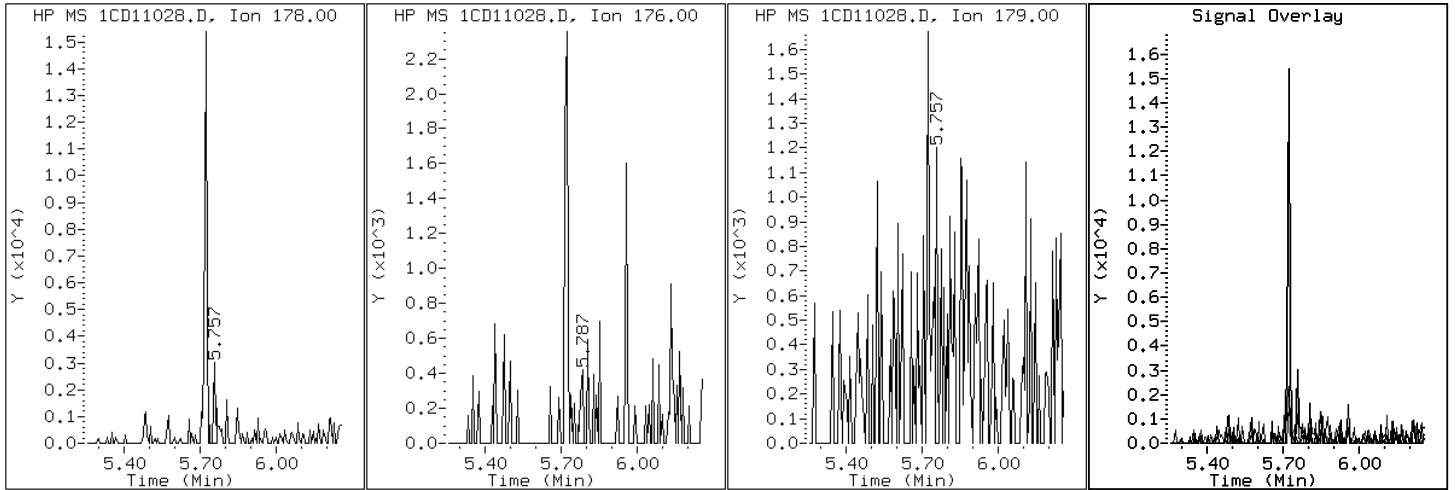
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

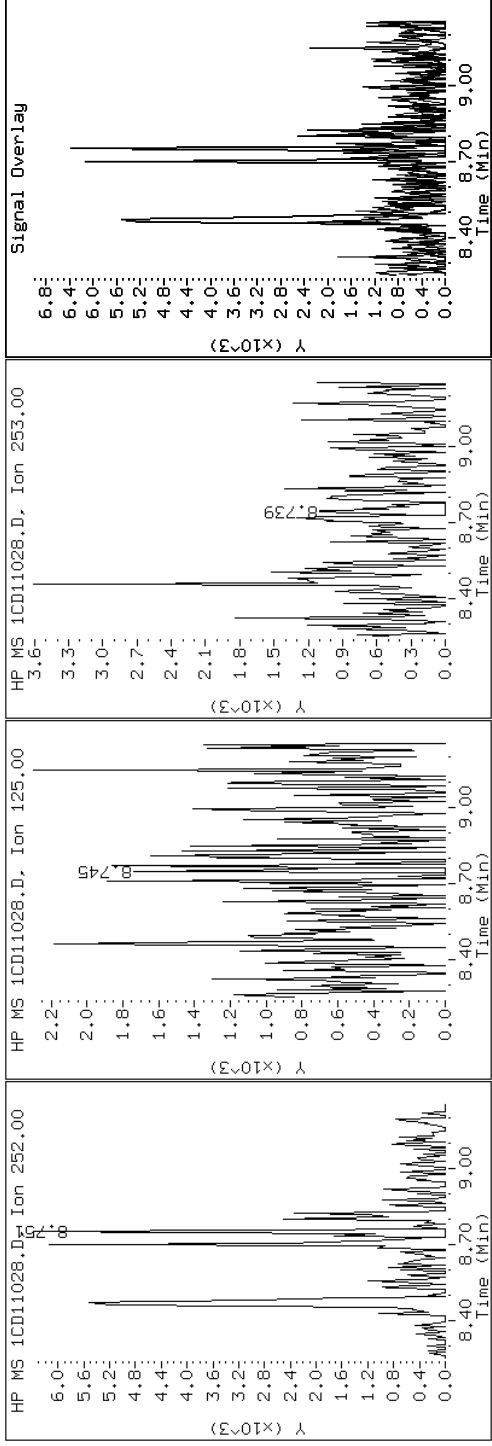
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

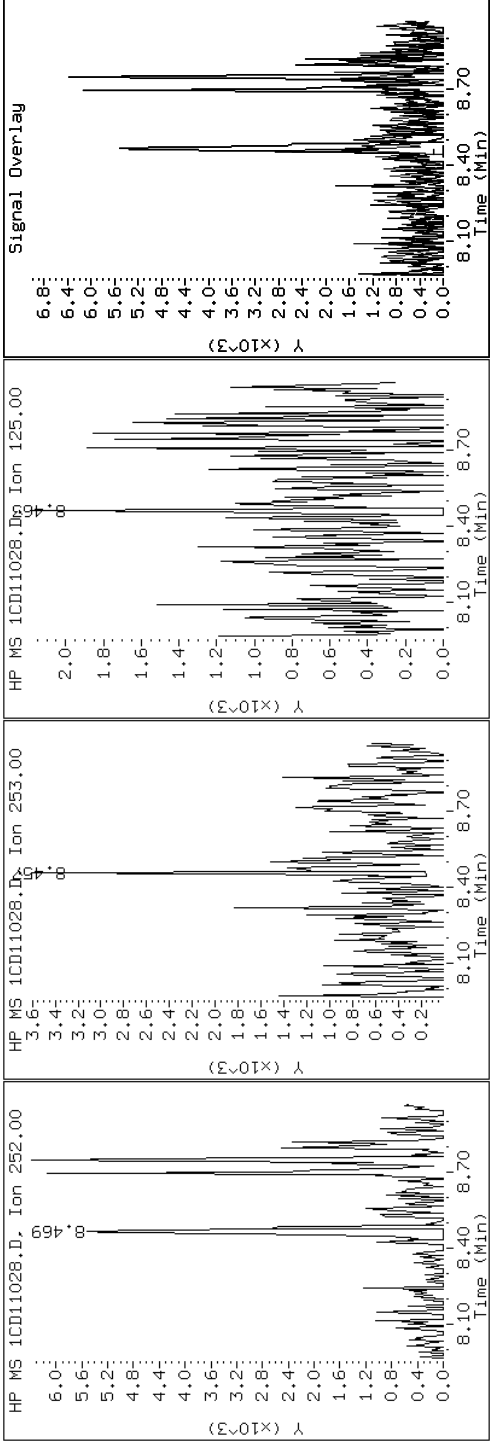
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

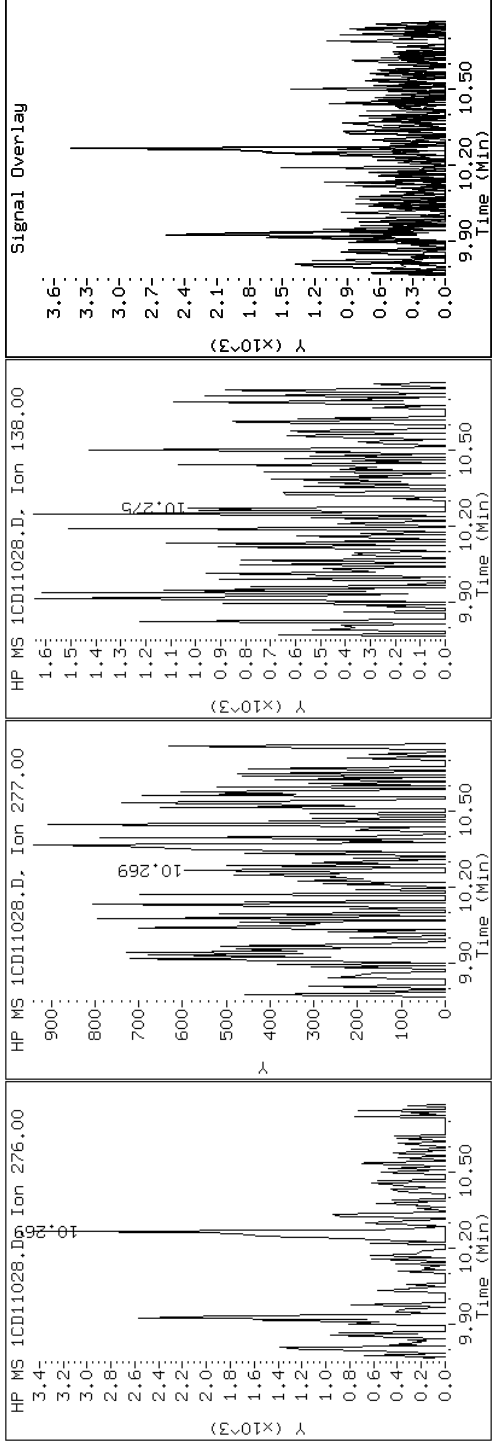
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

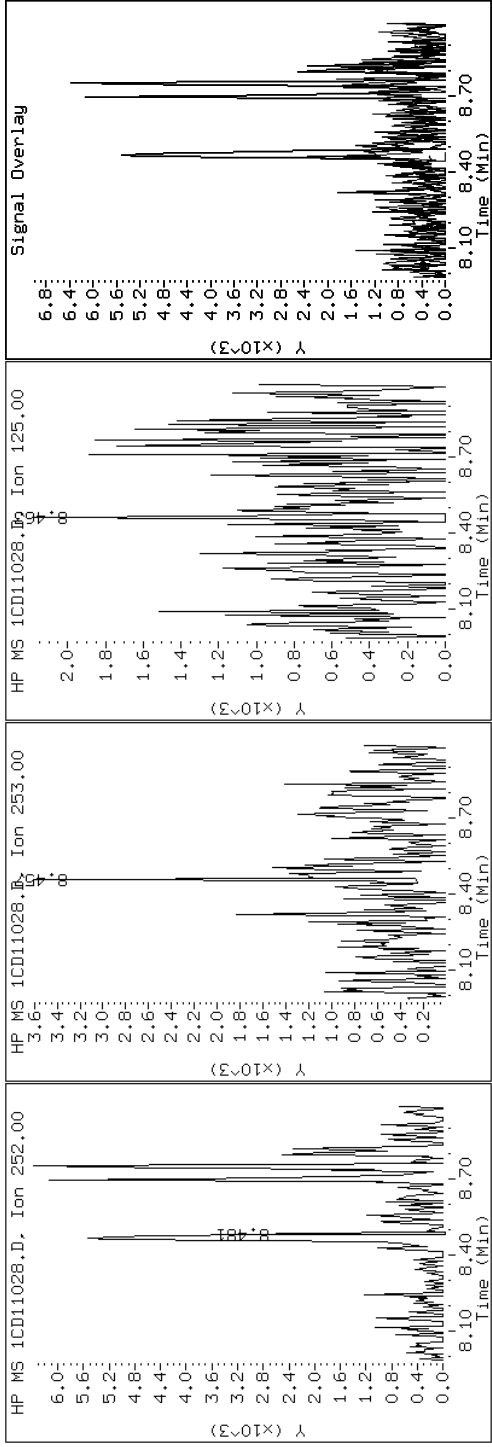
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

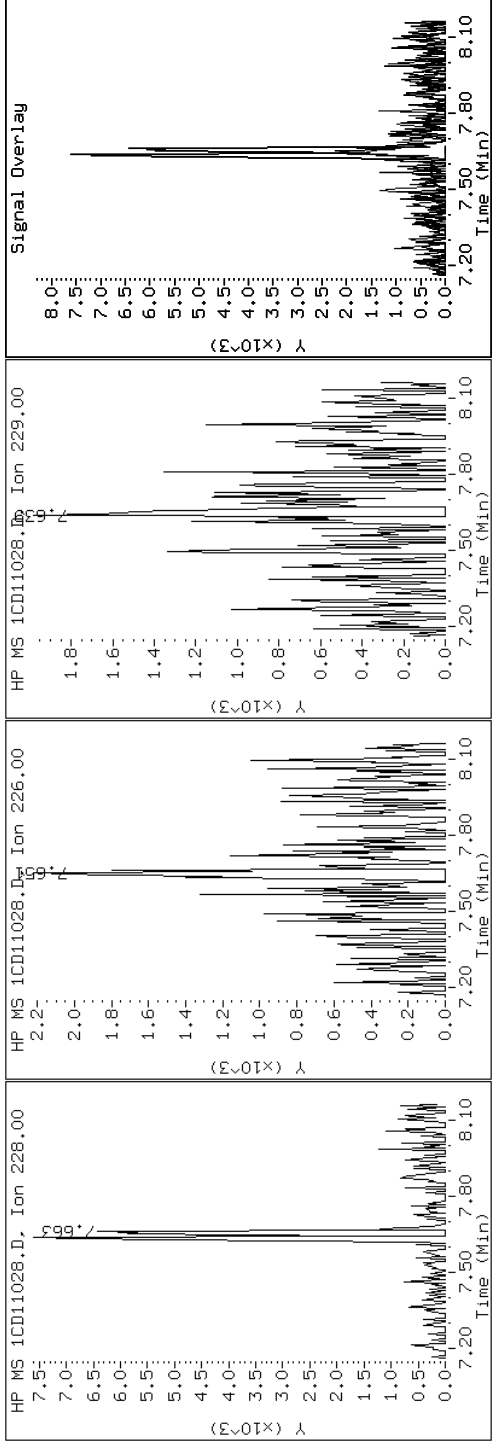
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

19 Chrysene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

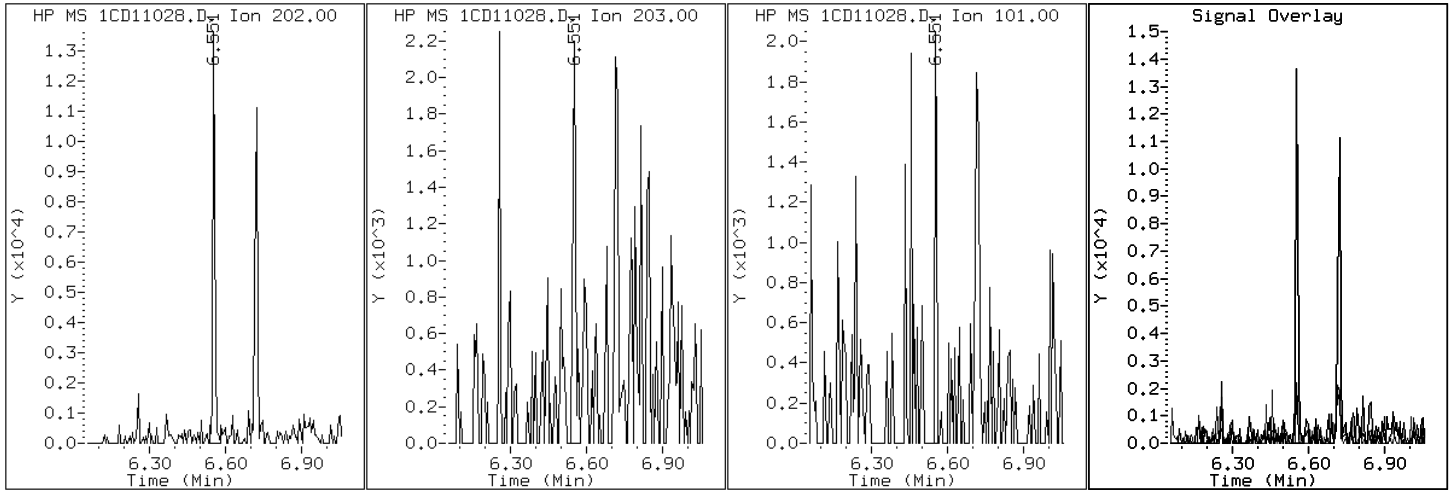
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

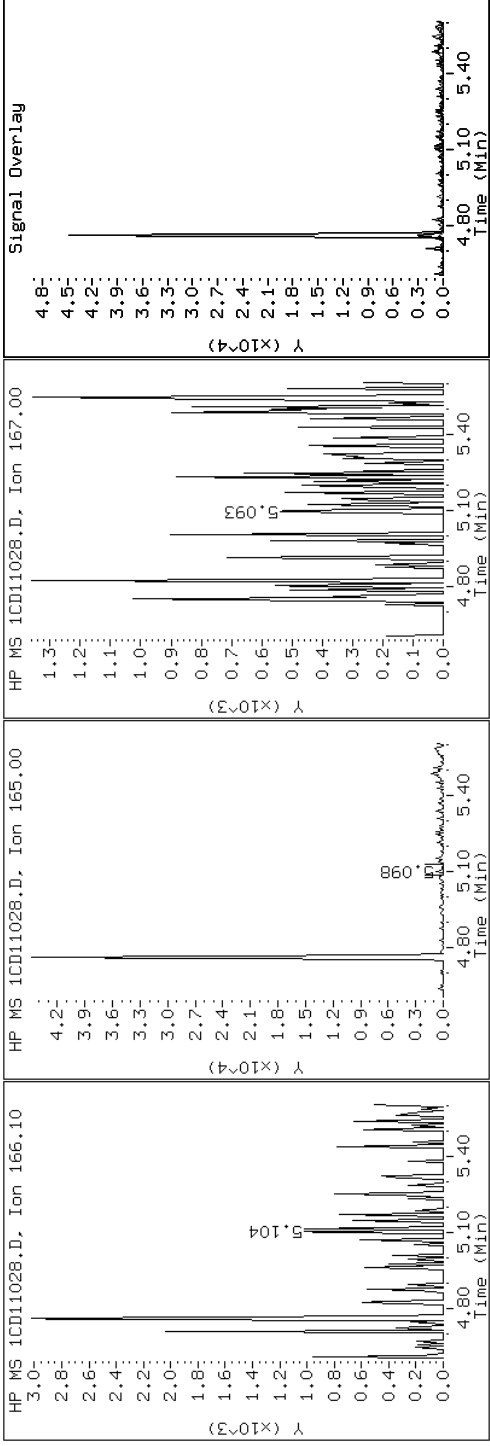
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

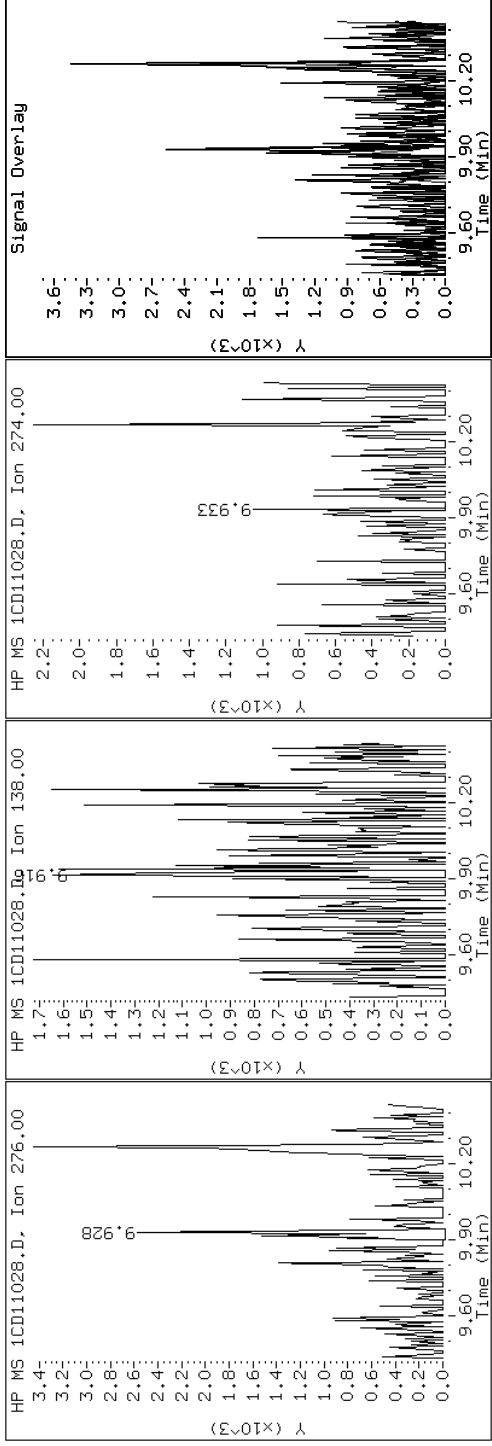
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

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



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

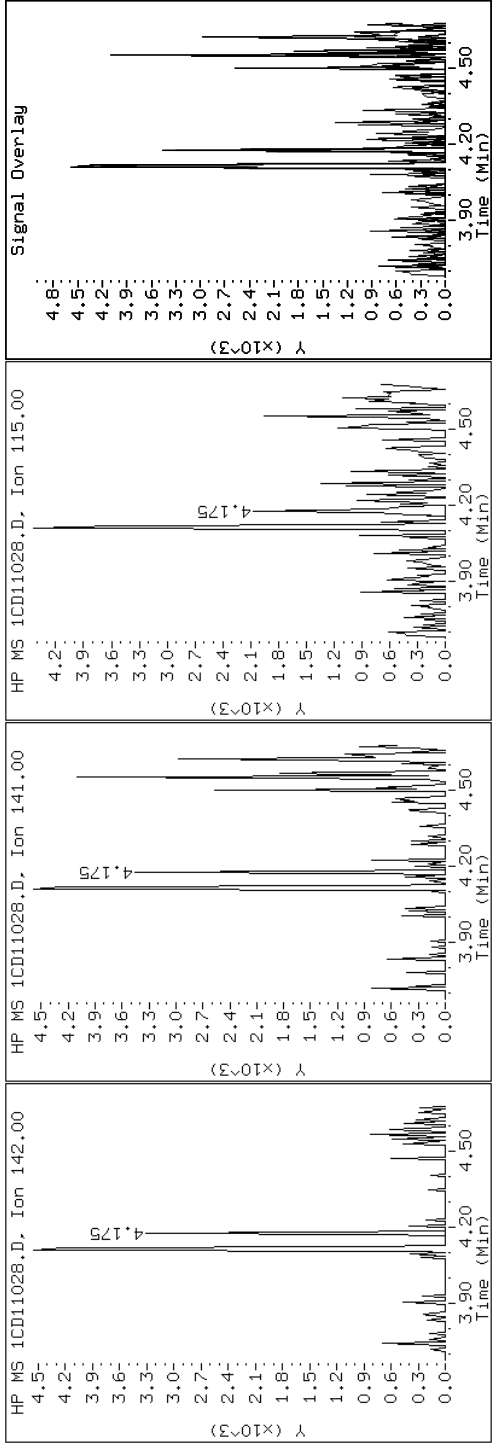
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

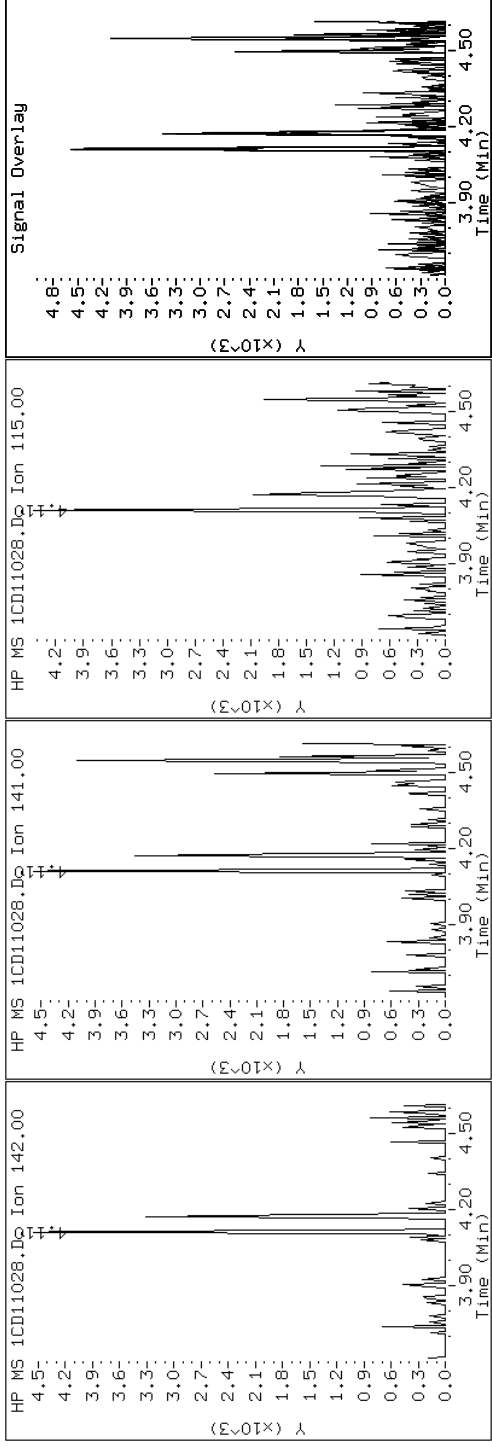
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

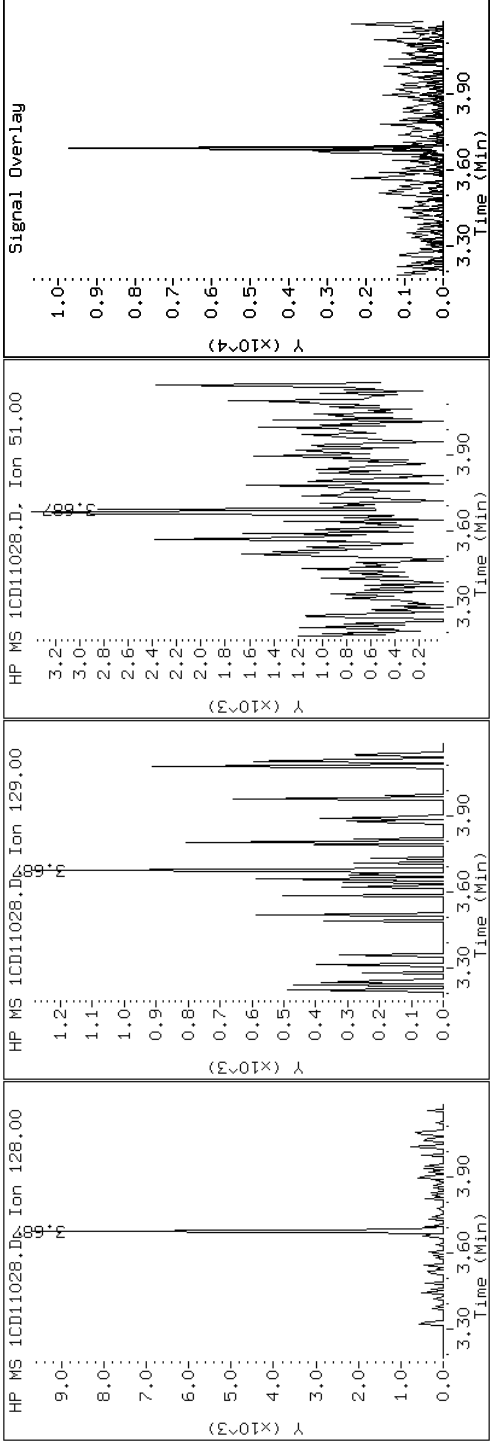
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

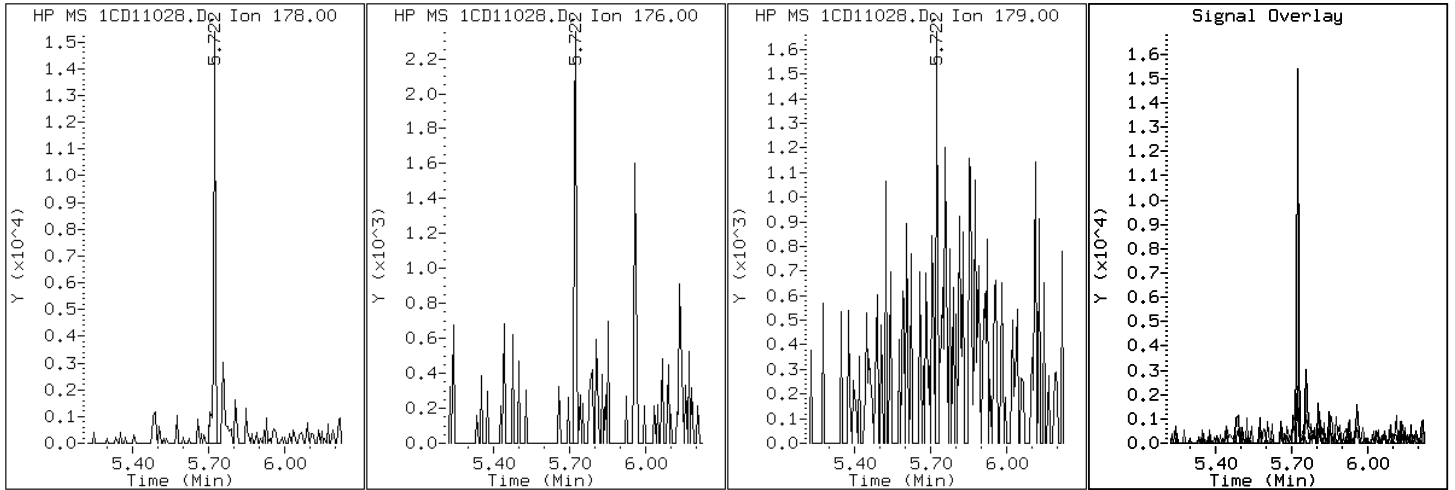
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11028.D

Date: 11-APR-2013 20:03

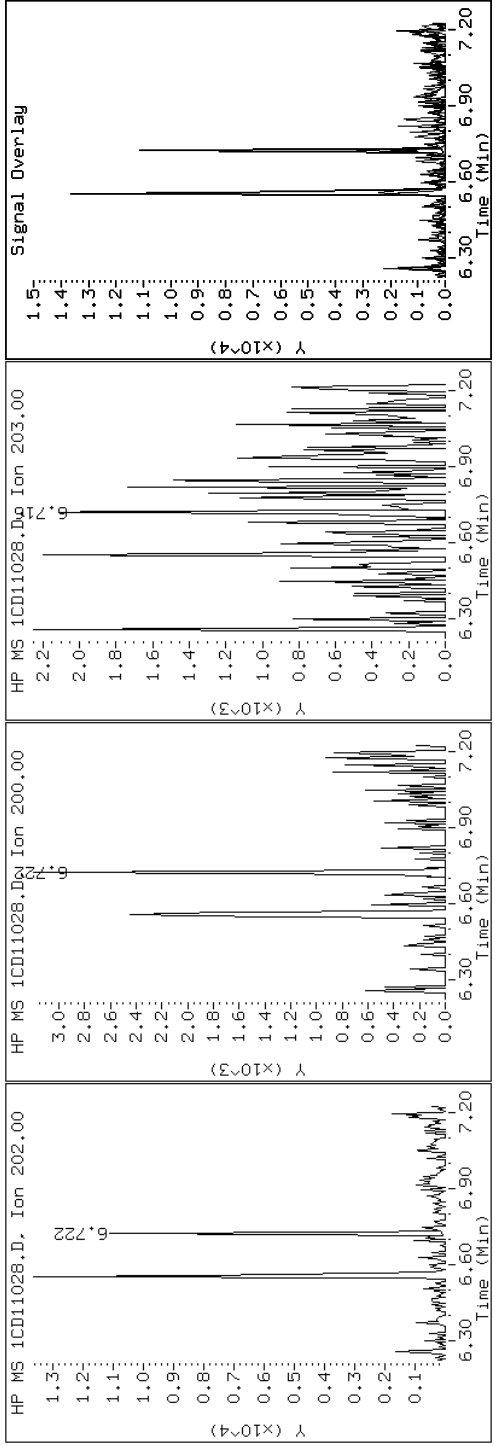
Client ID: CV0053A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89038-a-10-a

Operator: SCC

16 Pyrene

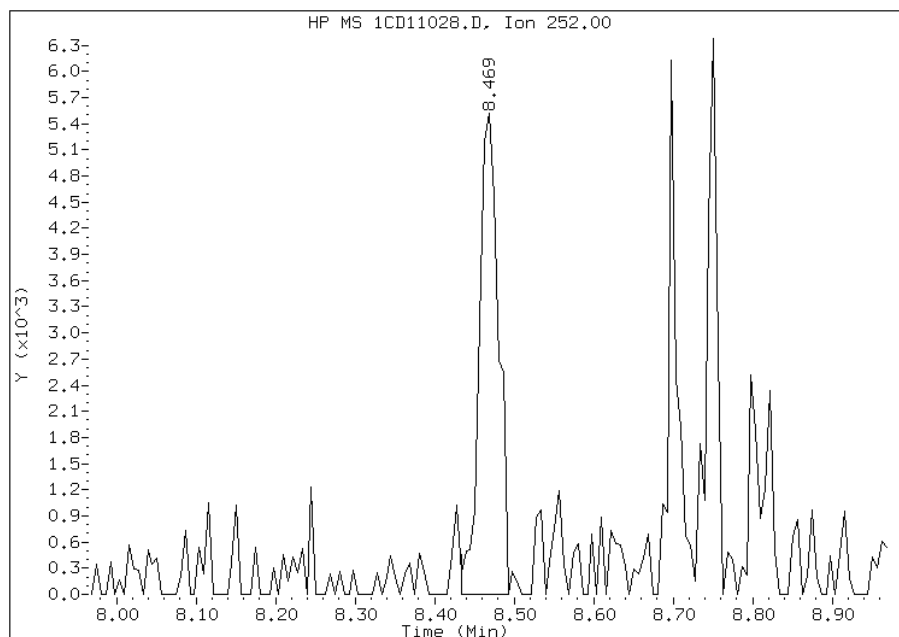


Manual Integration Report

Data File: 1CD11028.D
Inj. Date and Time: 11-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0053A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

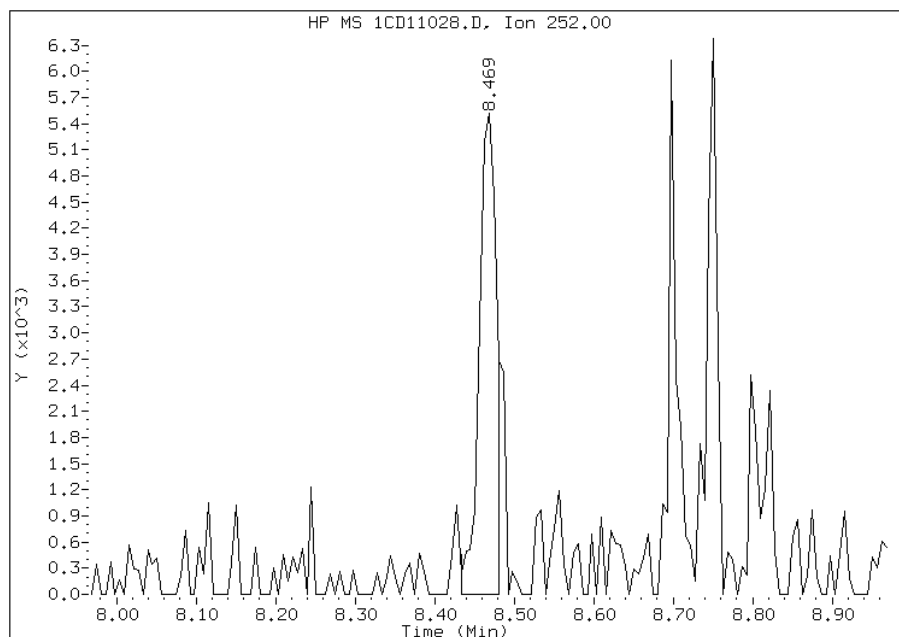
Processing Integration Results

RT: 8.47
Response: 9127
Amount: 1
Conc: 354



Manual Integration Results

RT: 8.47
Response: 8226
Amount: 1
Conc: 319



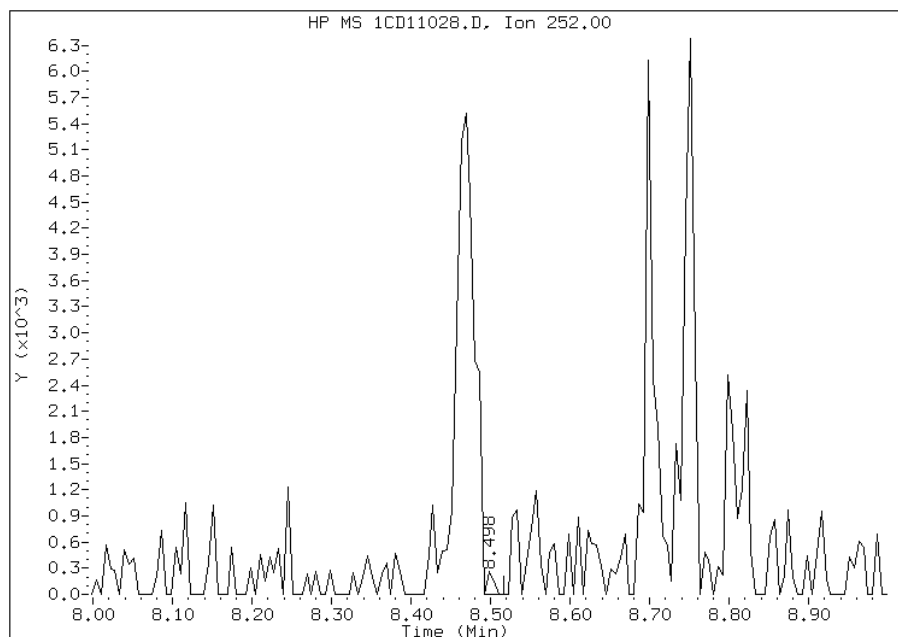
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11028.D
Inj. Date and Time: 11-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0053A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

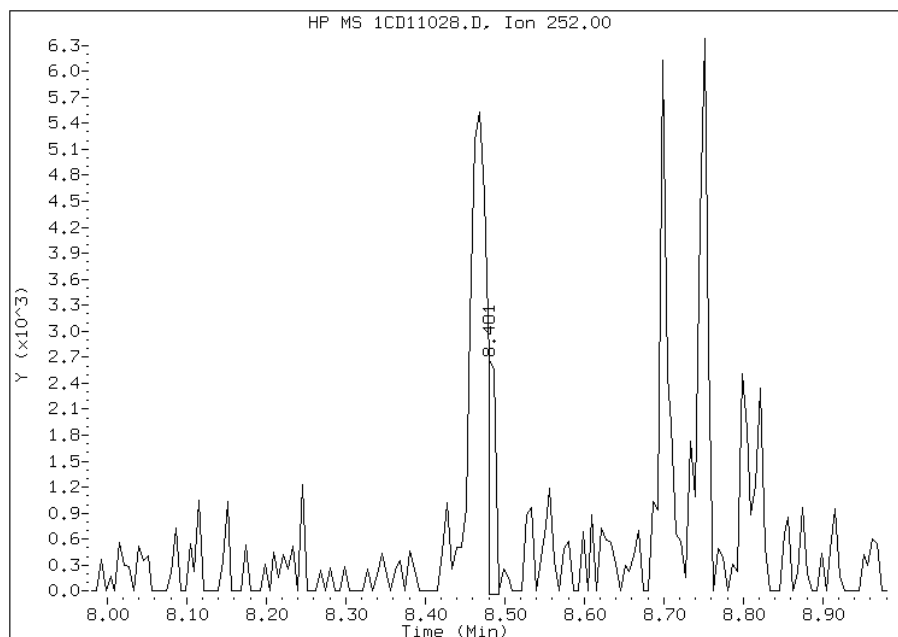
Processing Integration Results

RT: 8.50
Response: 146
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.48
Response: 1886
Amount: 0
Conc: 65



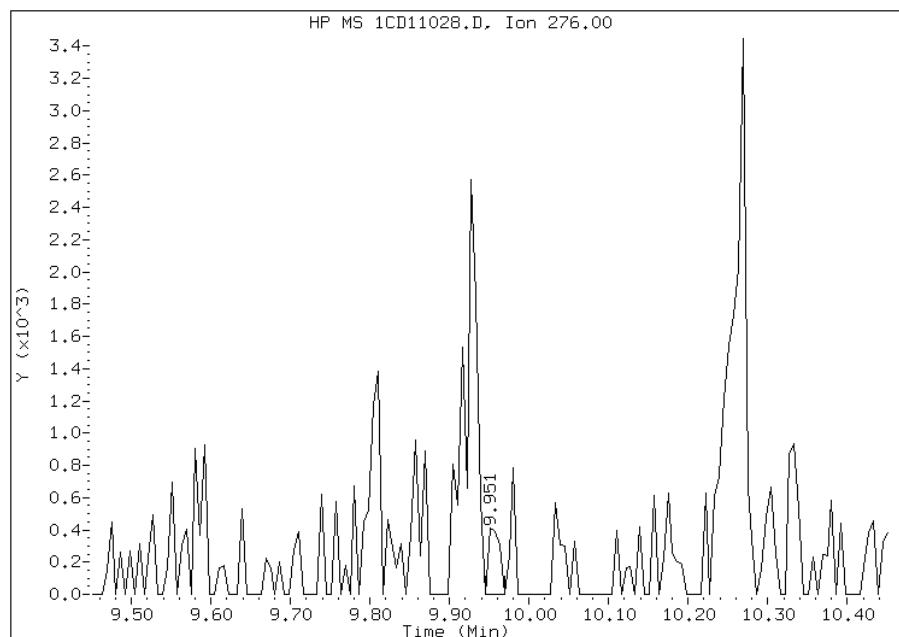
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11028.D
Inj. Date and Time: 11-APR-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0053A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

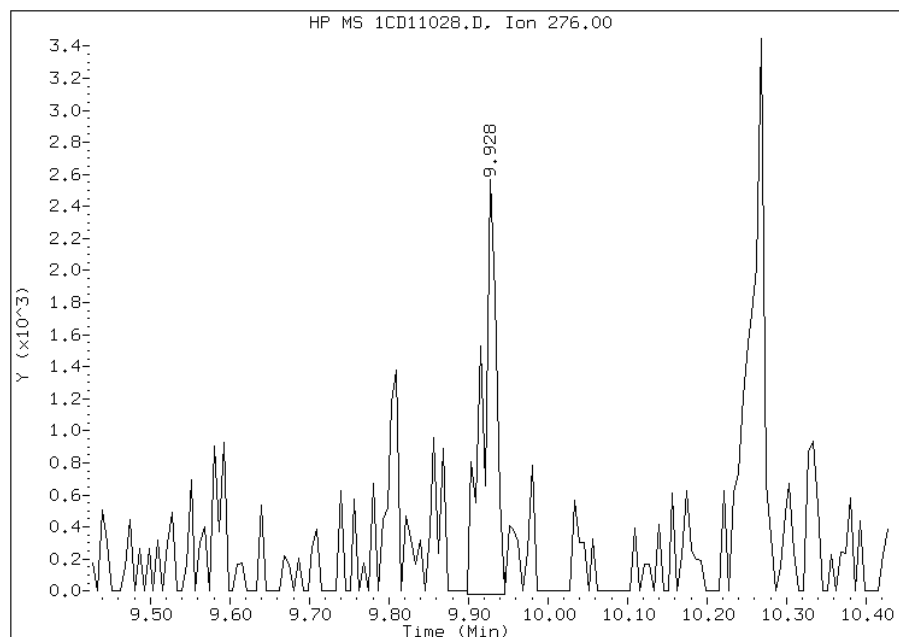
Processing Integration Results

RT: 9.95
Response: 389
Amount: 1
Conc: 256



Manual Integration Results

RT: 9.93
Response: 3085
Amount: 1
Conc: 358



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:19
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0053B-CS Lab Sample ID: 680-89038-11
 Matrix: Solid Lab File ID: 1CD11029.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:25
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.35(g) Date Analyzed: 04/11/2013 20:21
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	20	J	66	8.2
120-12-7	Anthracene	31		14	6.9
56-55-3	Benzo[a]anthracene	200		13	6.4
50-32-8	Benzo[a]pyrene	130		17	8.6
205-99-2	Benzo[b]fluoranthene	250		20	10
191-24-2	Benzo[g,h,i]perylene	140		33	7.3
207-08-9	Benzo[k]fluoranthene	85		13	5.9
218-01-9	Chrysene	210		15	7.4
53-70-3	Dibenz(a,h)anthracene	90		33	6.8
206-44-0	Fluoranthene	250		33	6.6
86-73-7	Fluorene	18	J	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	180		33	12
90-12-0	1-Methylnaphthalene	220		66	7.3
91-57-6	2-Methylnaphthalene	250		66	12
91-20-3	Naphthalene	210		66	7.3
85-01-8	Phenanthrene	240		13	6.4
129-00-0	Pyrene	240		33	6.1

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11029.D
 Lab Smp Id: 680-89038-A-11-A Client Smp ID: CV0053B-CS
 Inj Date : 11-APR-2013 20:21
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-11-a
 Misc Info : 680-89038-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 29
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.350	Weight Extracted
M	40.698	% 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		3.674	3.675	(1.000)	348130	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	241525	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	404067	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	42481	7.03846	773.2102	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	427684	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	420989	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	17992	1.91191	210.0326	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	12670	2.28584	251.1112	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	12125	2.01711	221.5899	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1909	0.18653	20.4911	
9 Fluorene	166		5.098	5.104	(1.070)	1296	0.16512	18.1394(Q)	
11 Phenanthrene	178		5.721	5.722	(1.003)	25866	2.18624	240.1689	
12 Anthracene	178		5.757	5.757	(1.009)	3318	0.28285	31.0727	
13 Carbazole	167		5.863	5.863	(1.028)	4500	0.41189	45.2483	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202		6.551	6.557	(1.148)	29372	2.24077	246.1593
16 Pyrene	202		6.721	6.722	(0.880)	26679	2.19271	240.8796
17 Benzo(a)anthracene	228		7.633	7.634	(0.999)	21860	1.80750	198.5627
19 Chrysene	228		7.657	7.663	(1.002)	22713	1.89844	208.5528
20 Benzo(b)fluoranthene	252		8.468	8.468	(0.962)	24248	2.28042	250.5160(M)
21 Benzo(k)fluoranthene	252		8.480	8.486	(0.963)	9359	0.77785	85.4503(QM)
22 Benzo(a)pyrene	252		8.751	8.751	(0.994)	12927	1.17611	129.2020
24 Indeno(1,2,3-cd)pyrene	276		9.927	9.933	(1.128)	10664	1.61600	177.5255(M)
25 Dibenzo(a,h)anthracene	278		9.951	9.945	(1.130)	4043	0.82206	90.3075(M)
26 Benzo(g,h,i)perylene	276		10.256	10.269	(1.165)	13182	1.27954	140.5633(M)

QC Flag Legend

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

Data File: 1CD11029.D

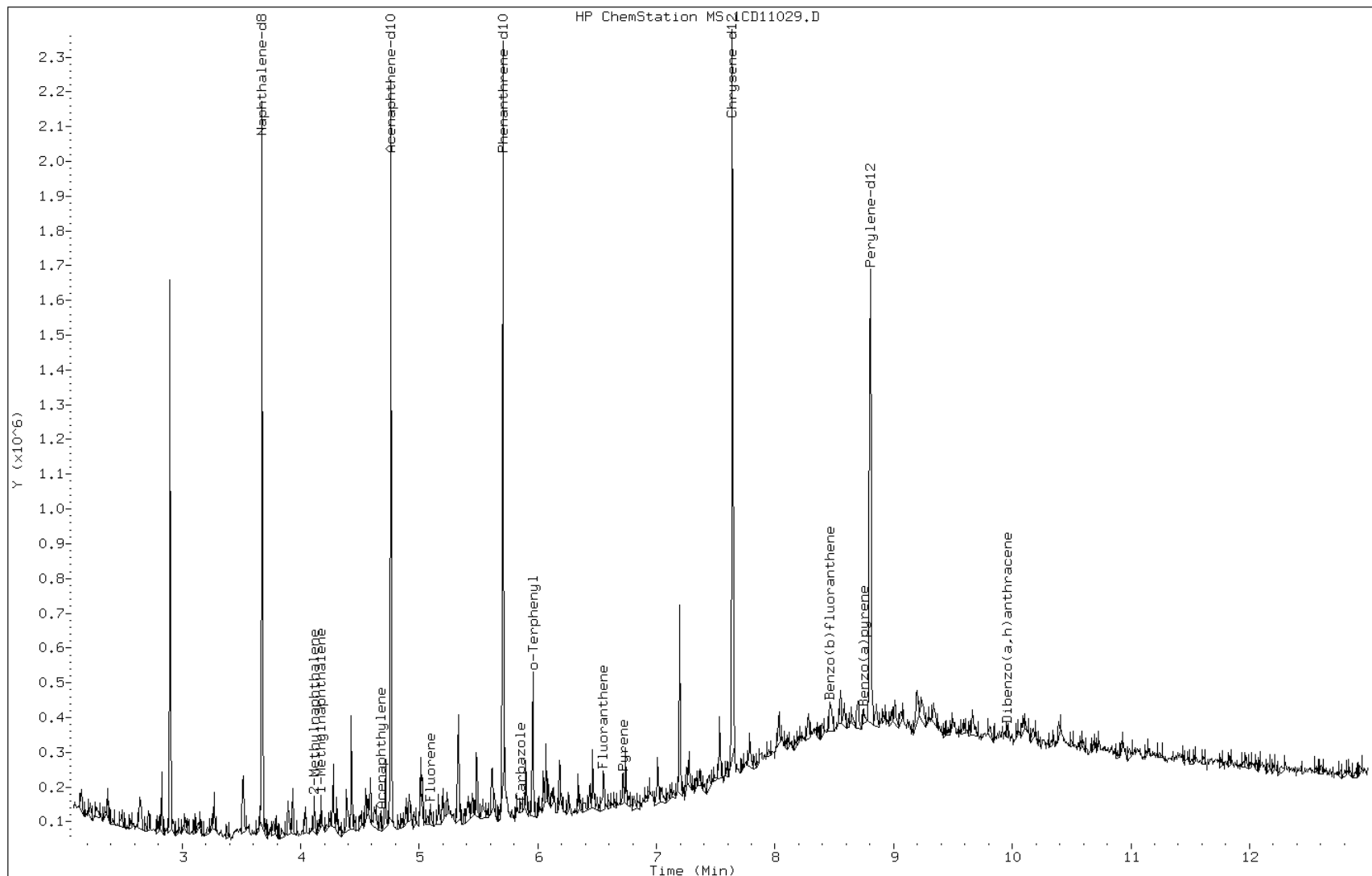
Date: 11-APR-2013 20:21

Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

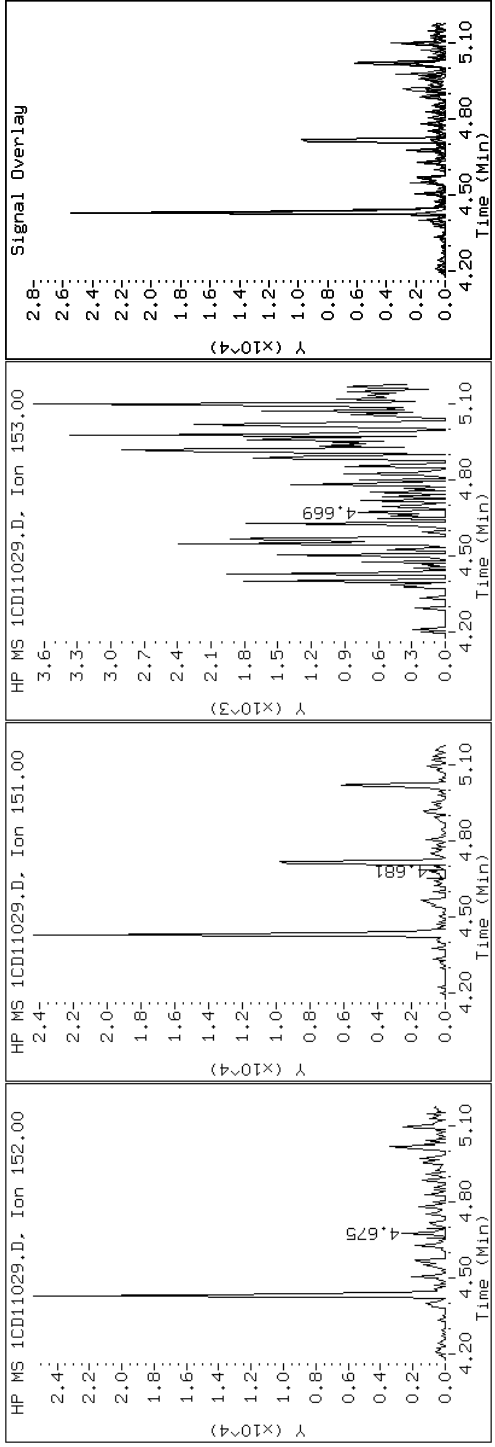
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

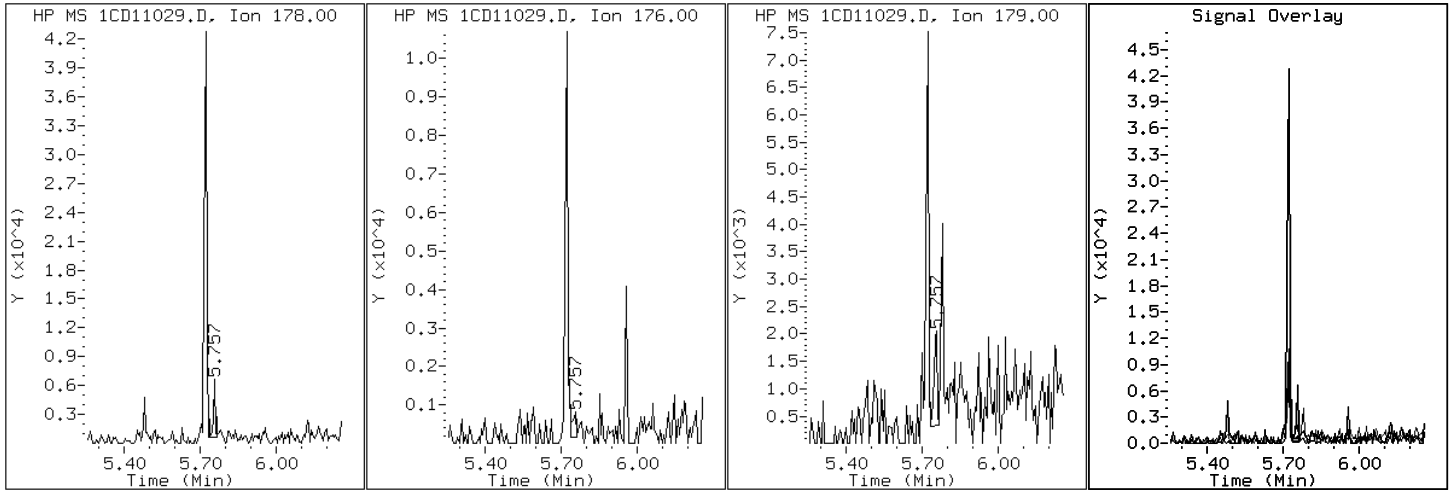
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

12 Anthracene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

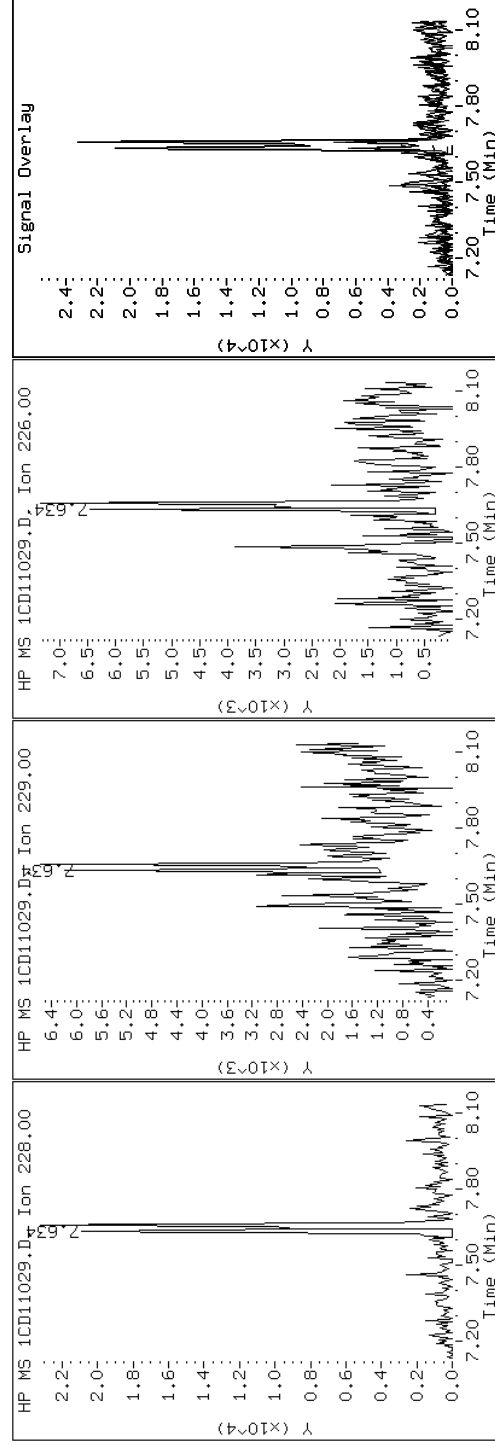
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

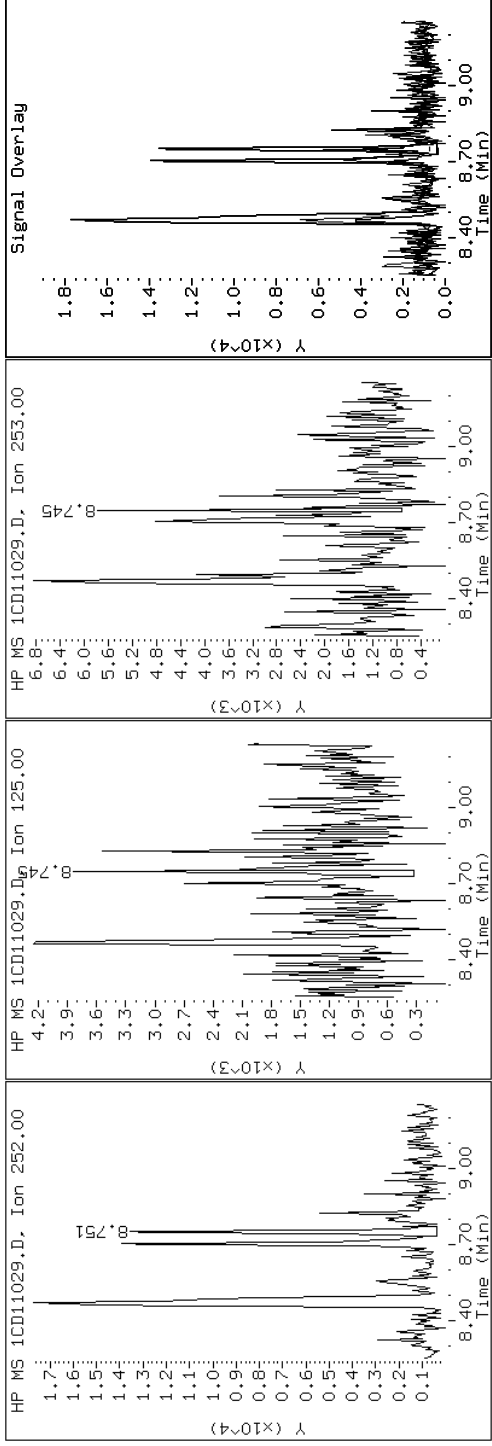
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

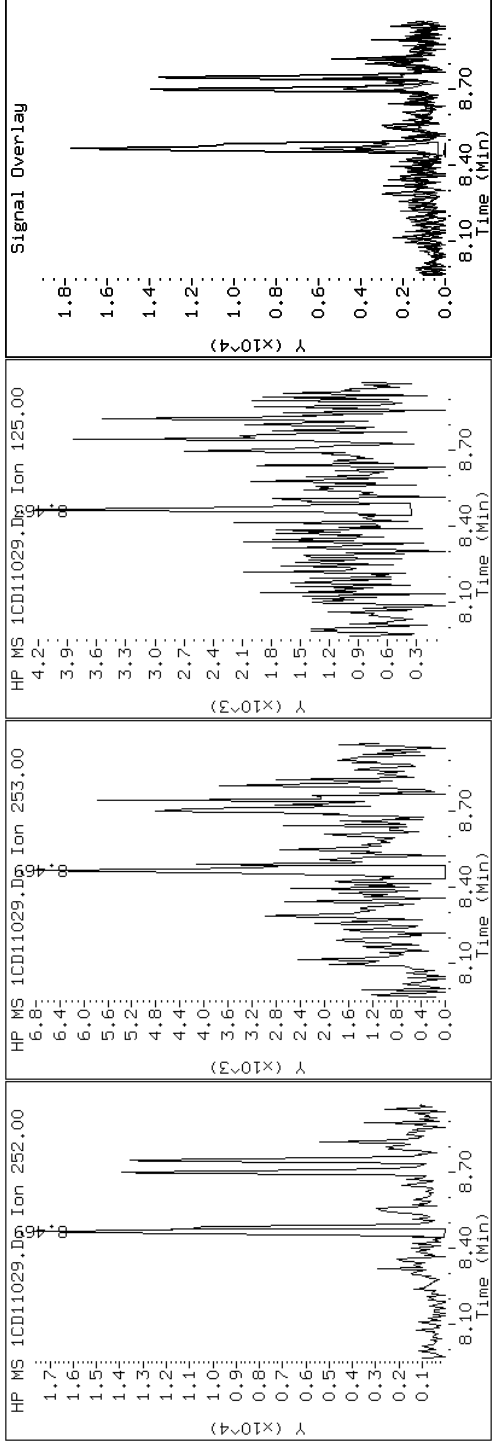
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

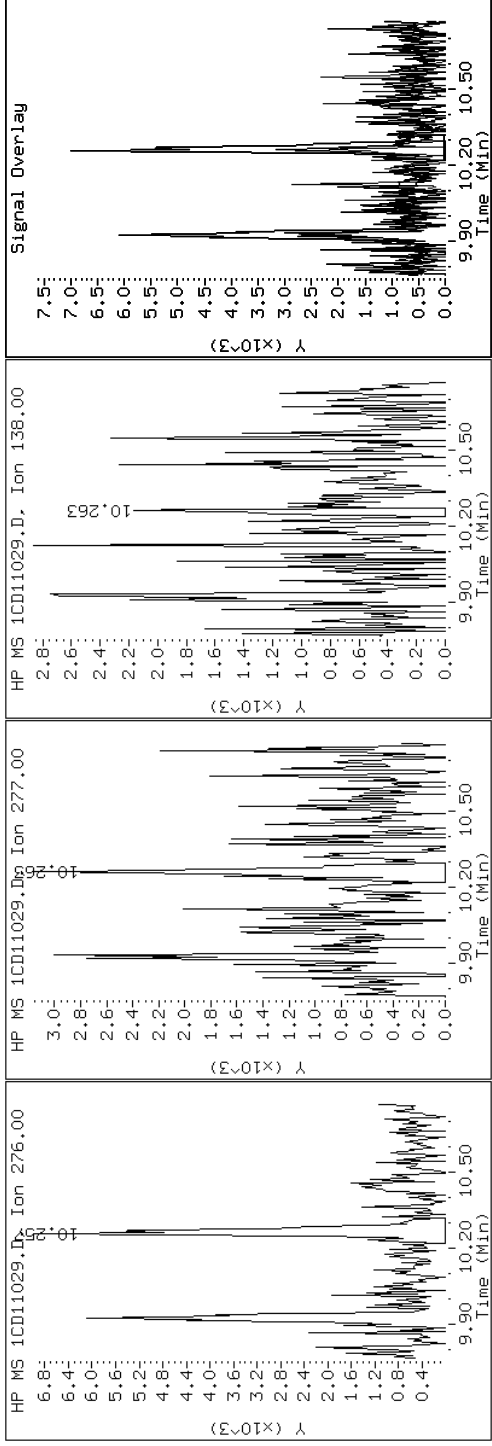
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

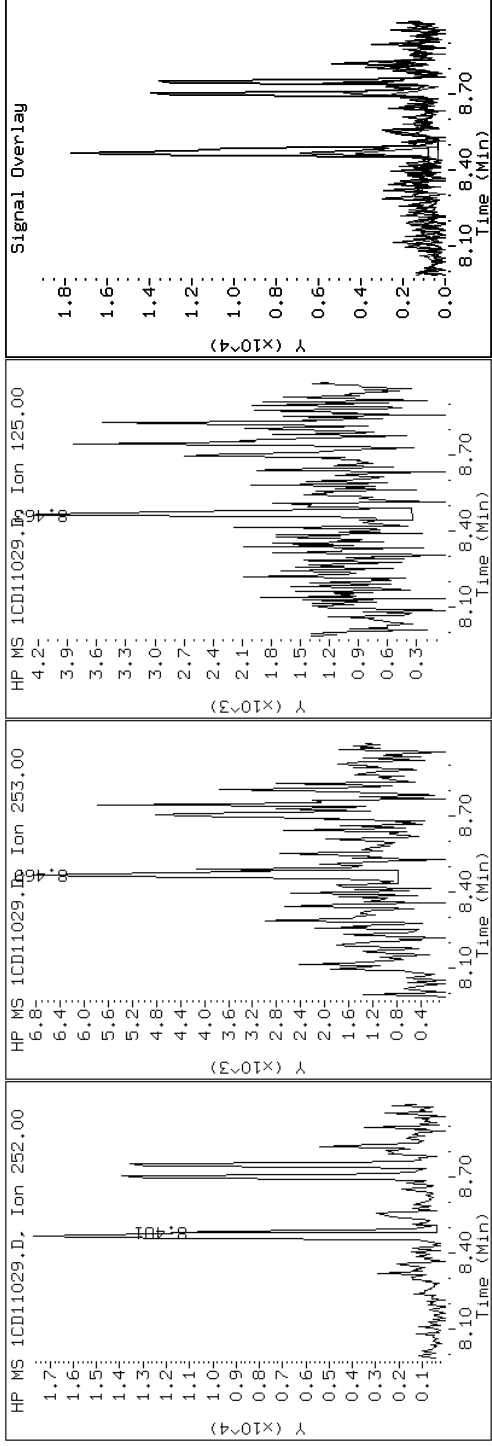
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

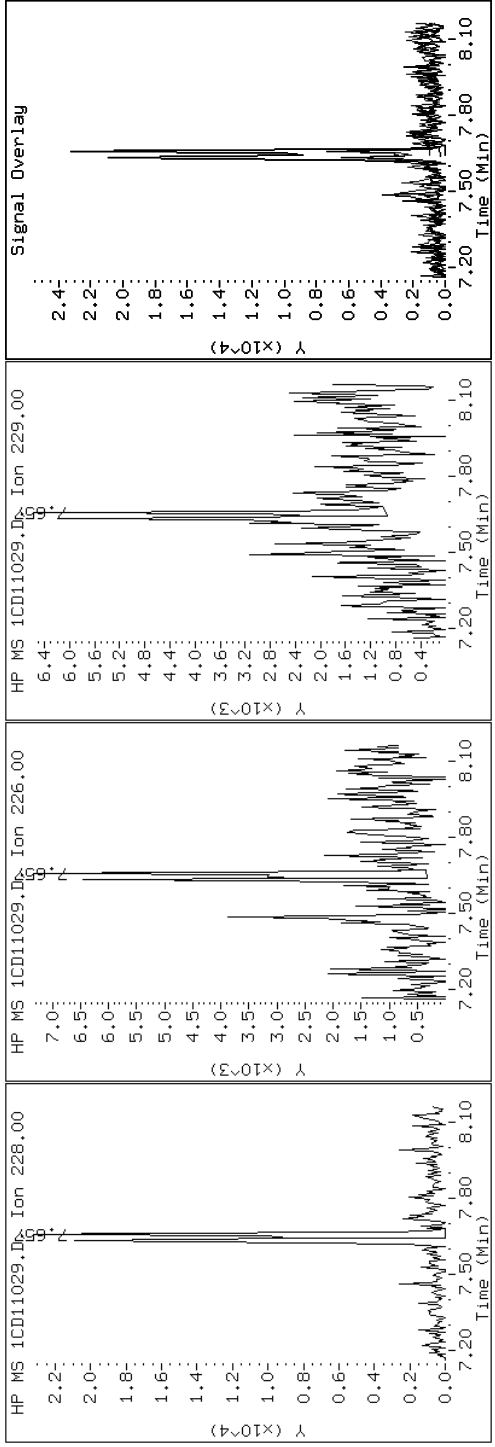
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

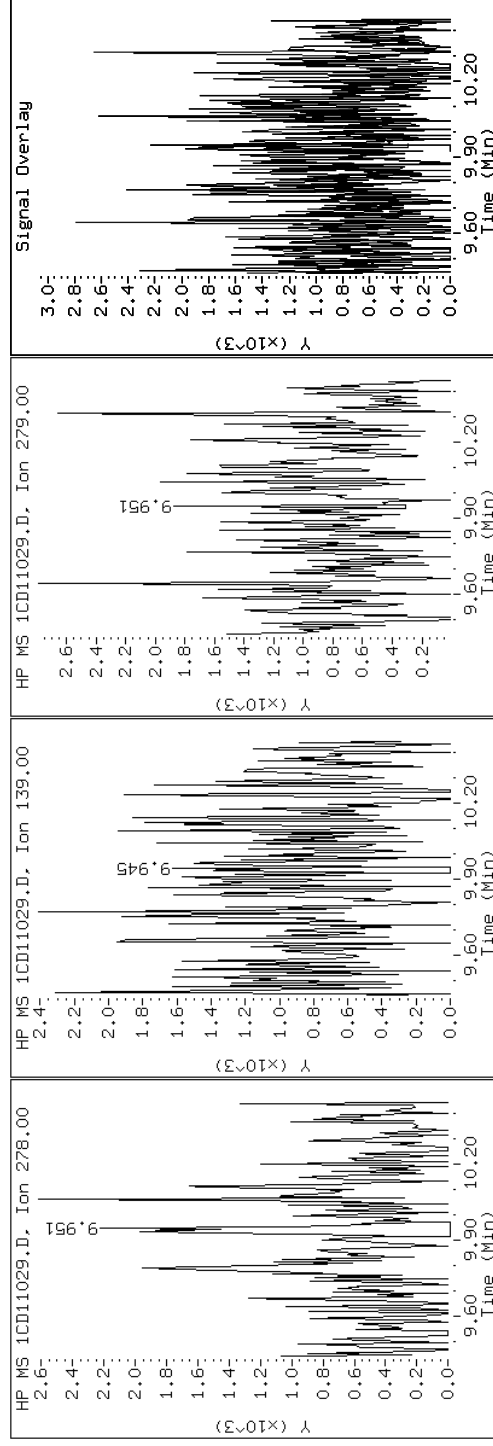
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

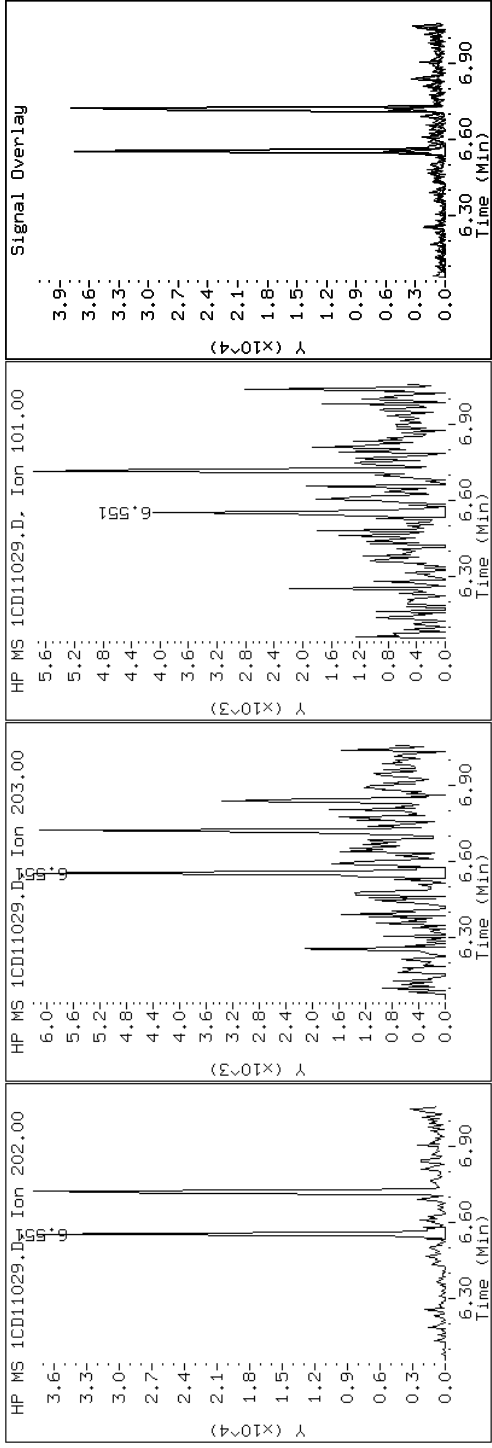
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

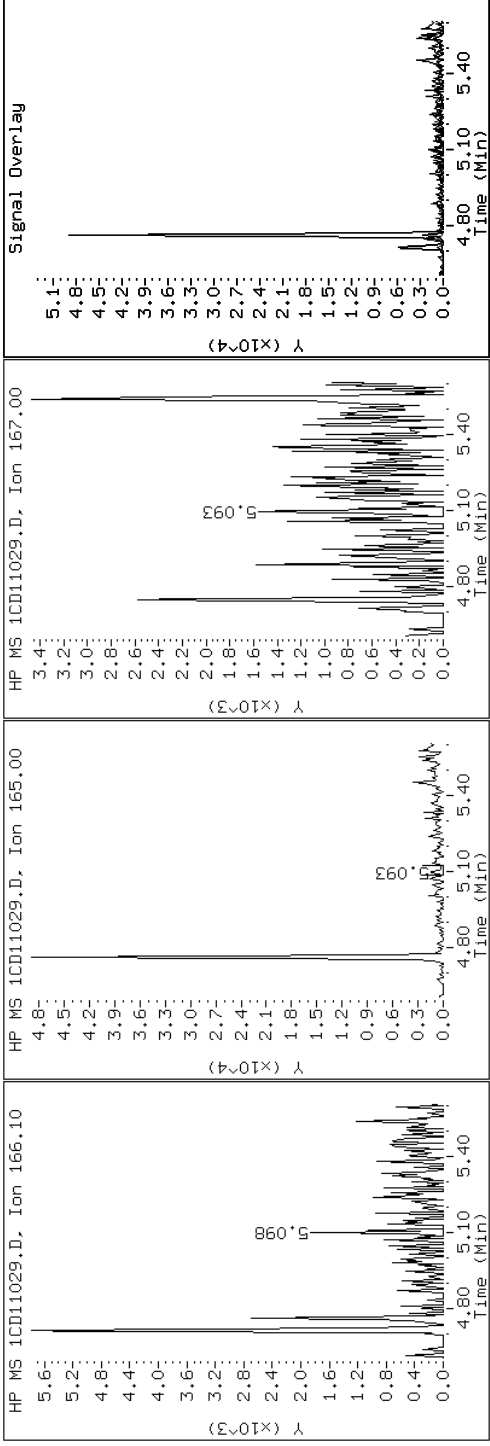
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

9 Fluorene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

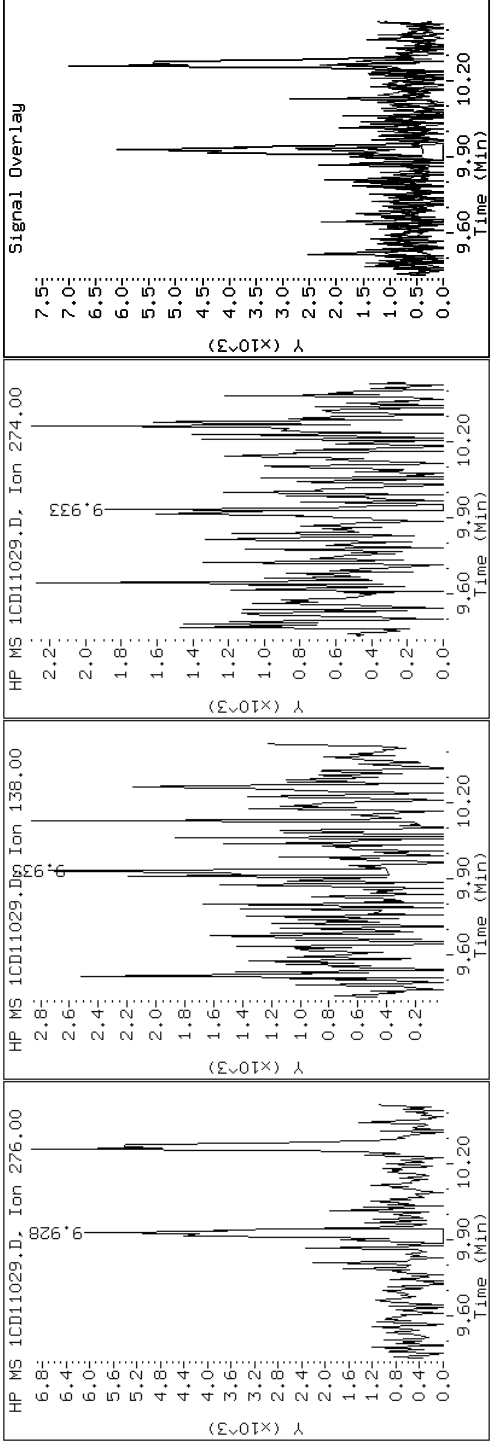
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

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



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

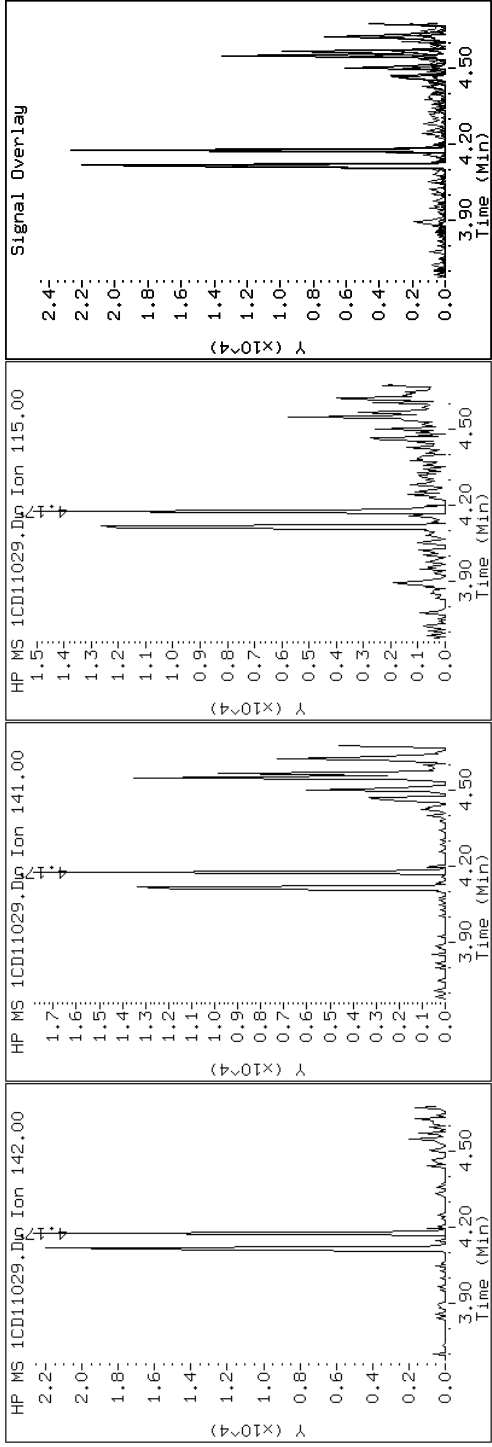
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

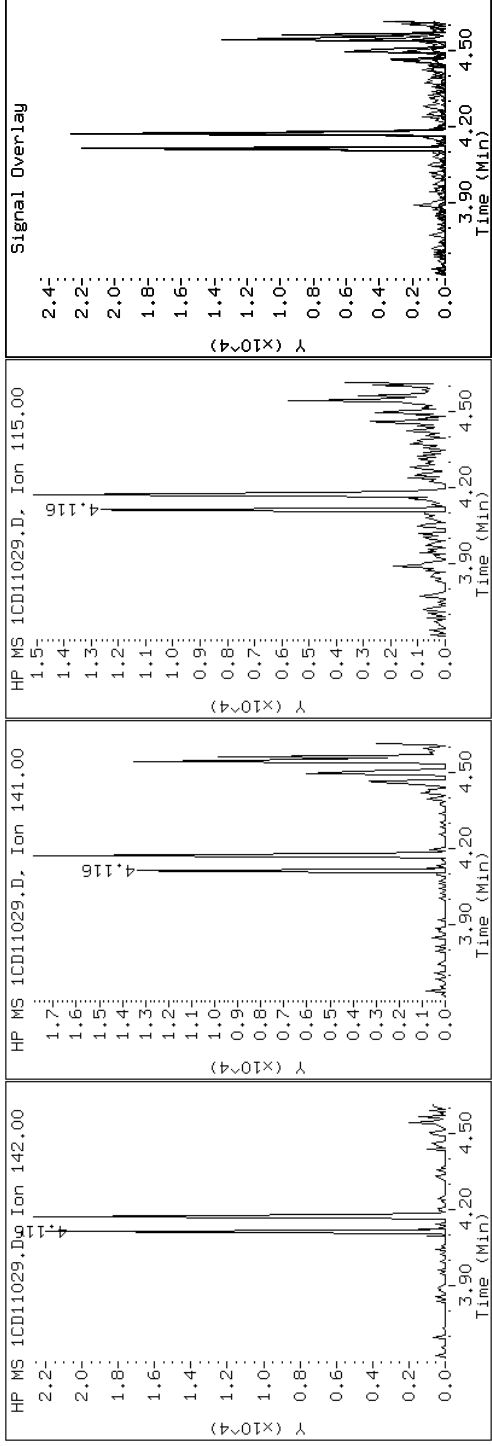
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

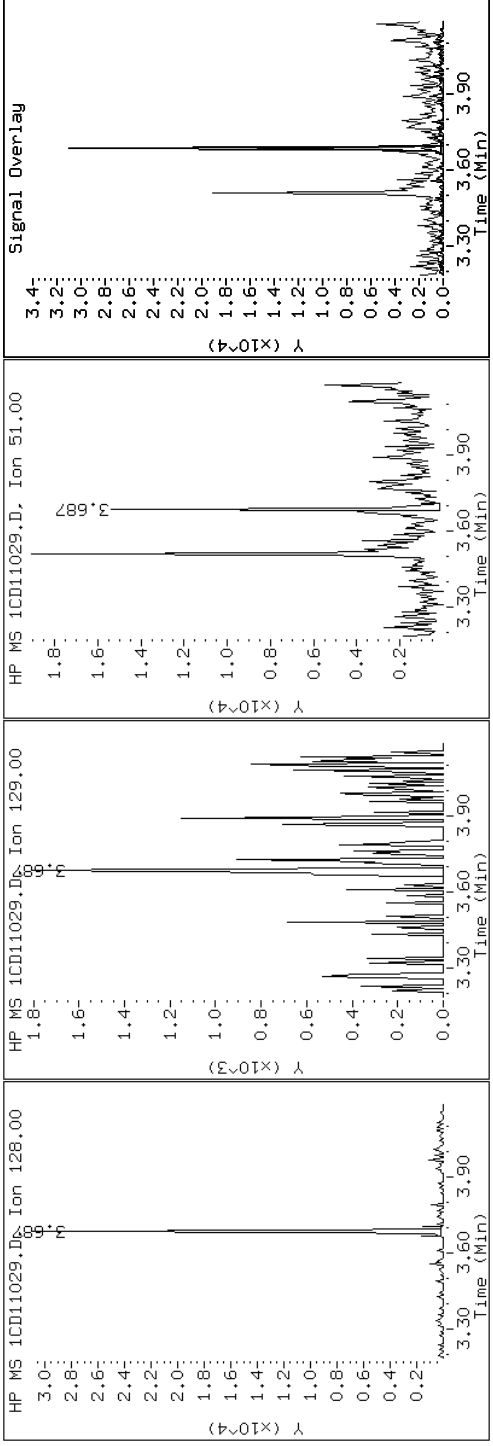
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

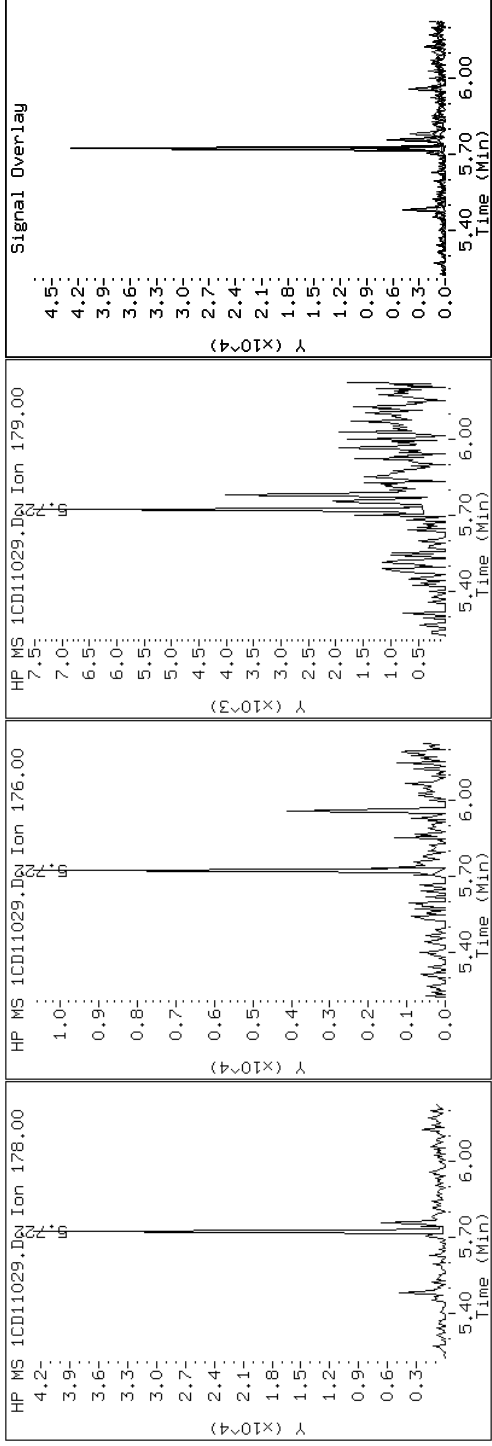
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11029.D

Date: 11-APR-2013 20:21

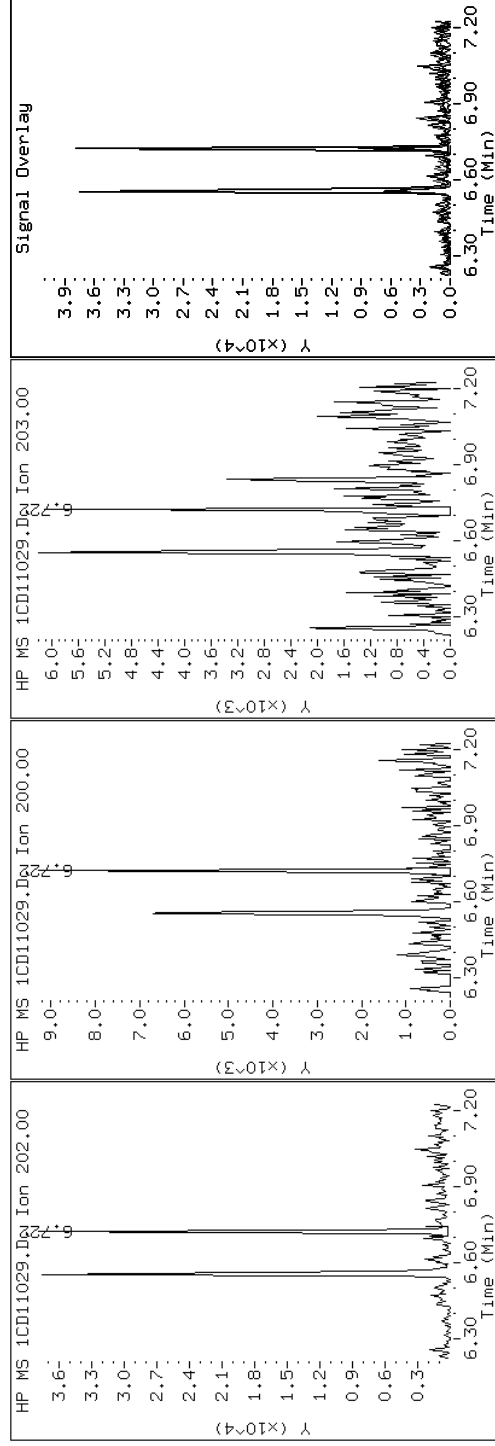
Client ID: CV0053B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-11-a

Operator: SCC

16 Pyrene

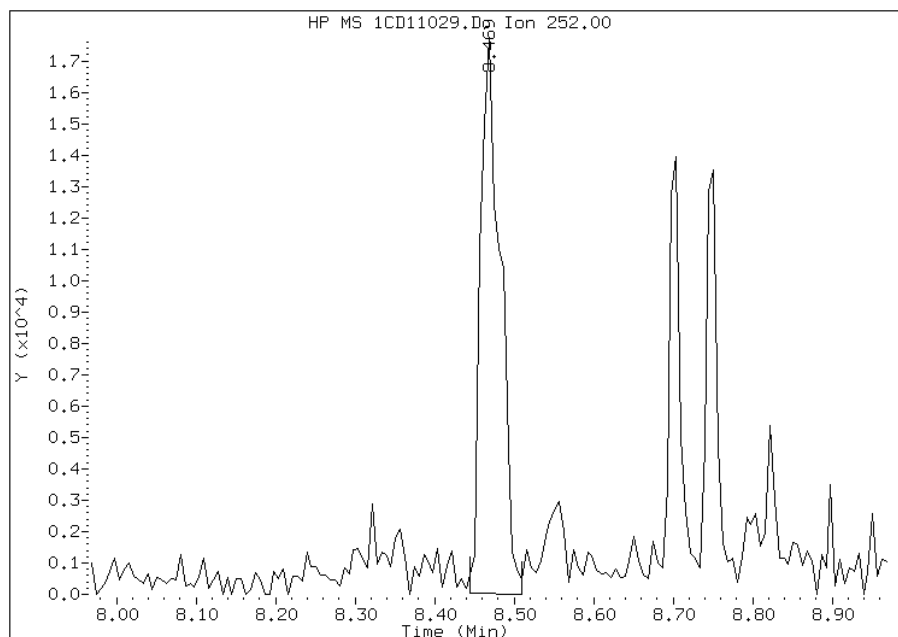


Manual Integration Report

Data File: 1CD11029.D
Inj. Date and Time: 11-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0053B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

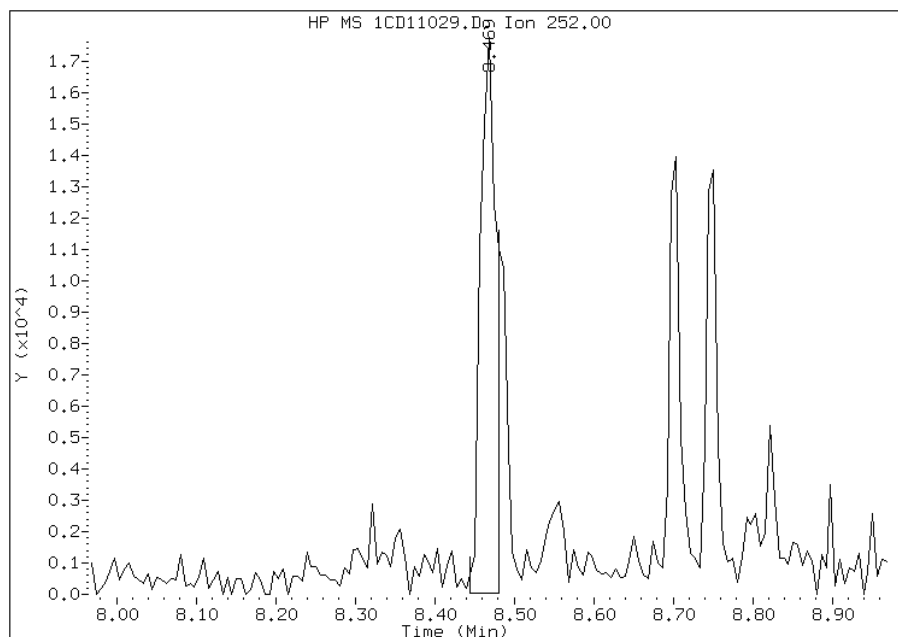
Processing Integration Results

RT: 8.47
Response: 30456
Amount: 3
Conc: 315



Manual Integration Results

RT: 8.47
Response: 24248
Amount: 2
Conc: 251



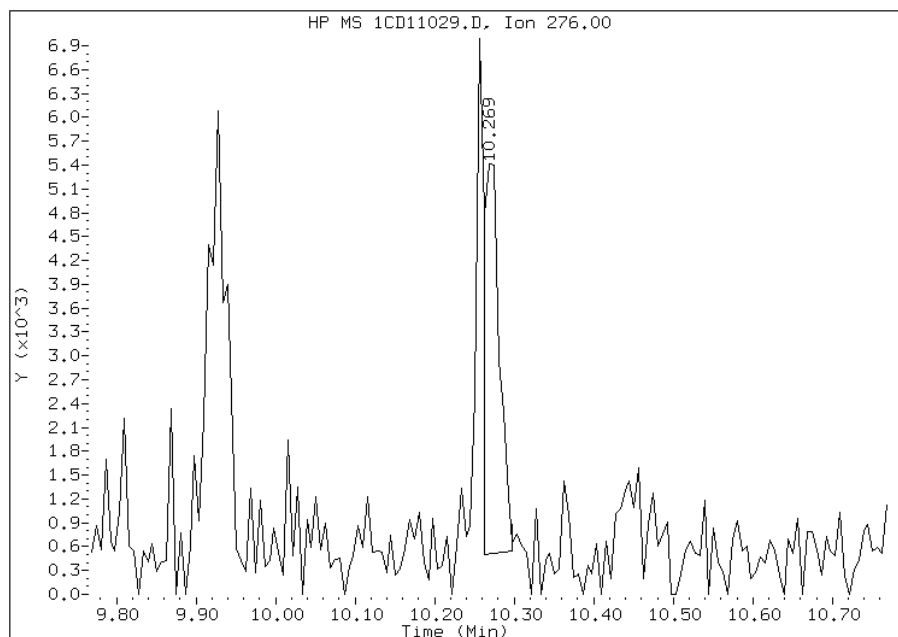
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11029.D
Inj. Date and Time: 11-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0053B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

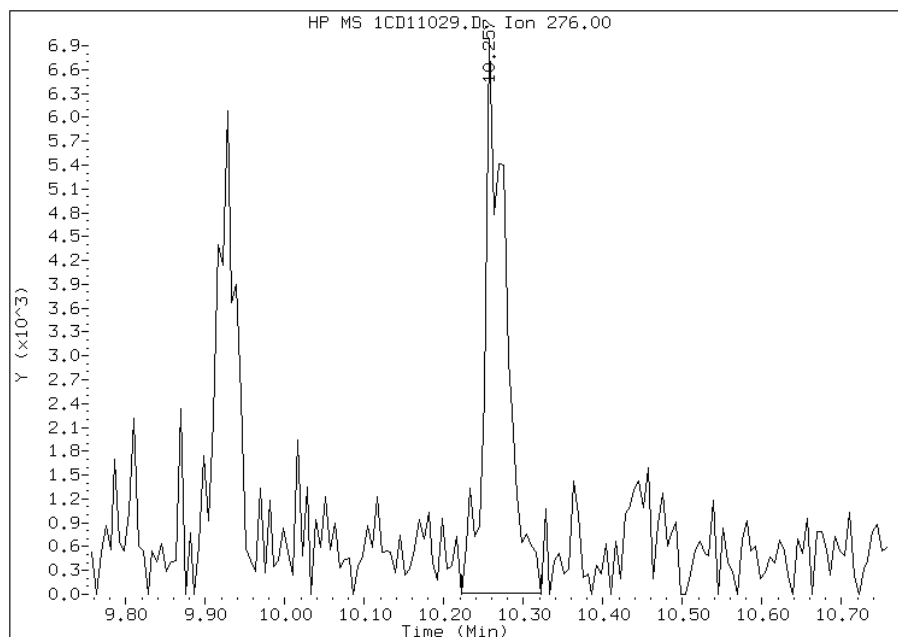
Processing Integration Results

RT: 10.27
Response: 6733
Amount: 1
Conc: 72



Manual Integration Results

RT: 10.26
Response: 13182
Amount: 1
Conc: 141



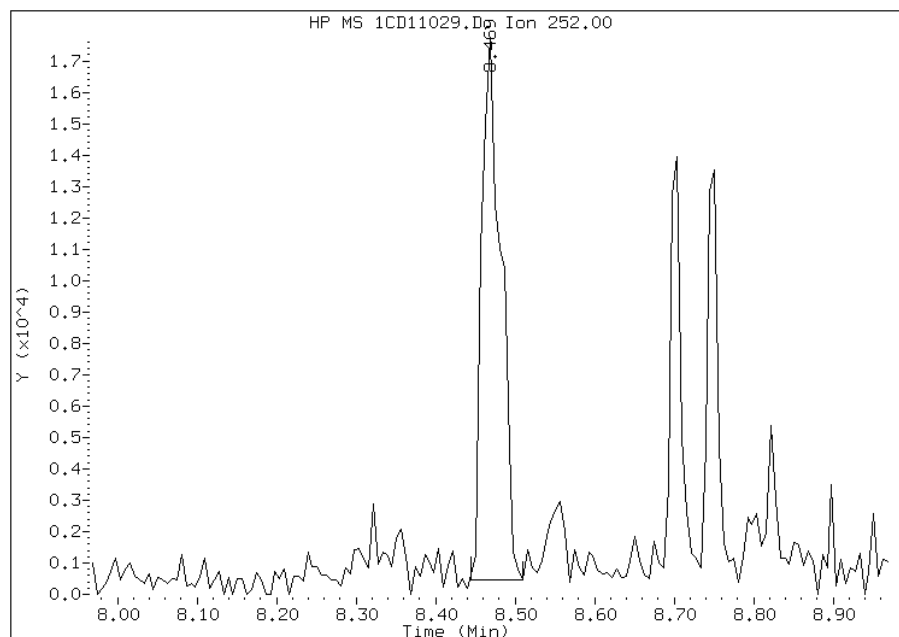
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11029.D
Inj. Date and Time: 11-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0053B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

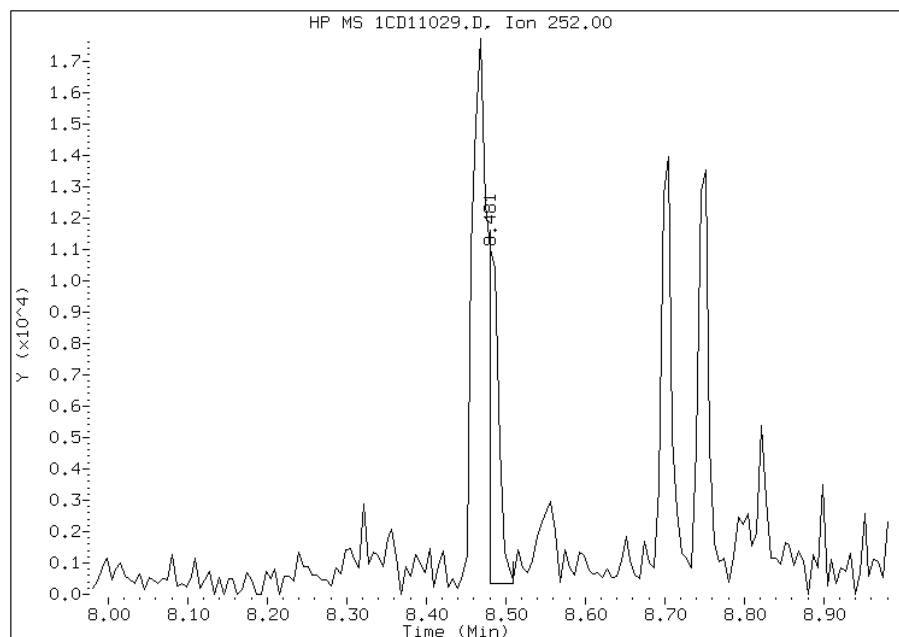
Processing Integration Results

RT: 8.47
Response: 28572
Amount: 2
Conc: 261



Manual Integration Results

RT: 8.48
Response: 9359
Amount: 1
Conc: 85



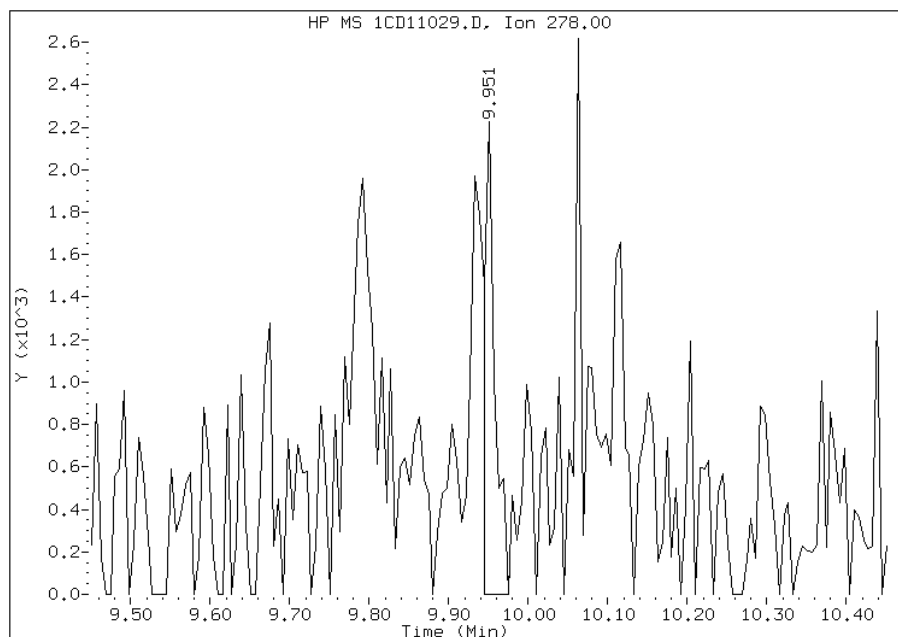
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11029.D
Inj. Date and Time: 11-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0053B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

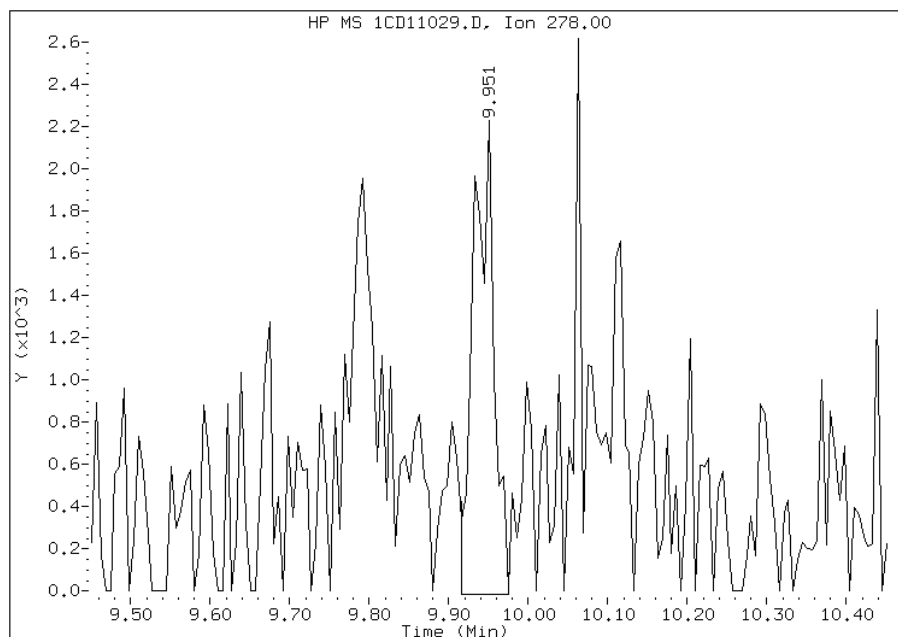
Processing Integration Results

RT: 9.95
Response: 2022
Amount: 1
Conc: 70



Manual Integration Results

RT: 9.95
Response: 4043
Amount: 1
Conc: 90



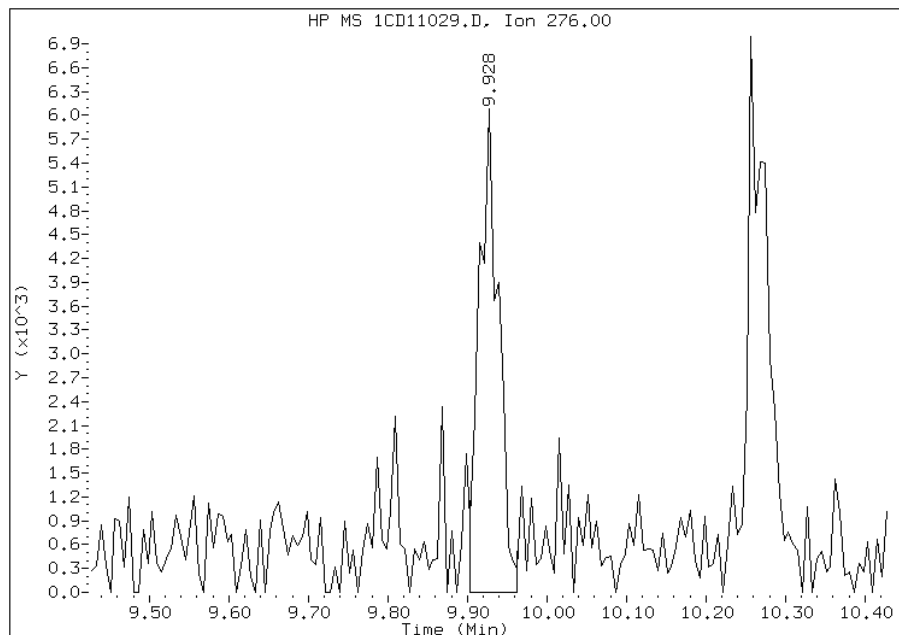
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11029.D
Inj. Date and Time: 11-APR-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0053B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

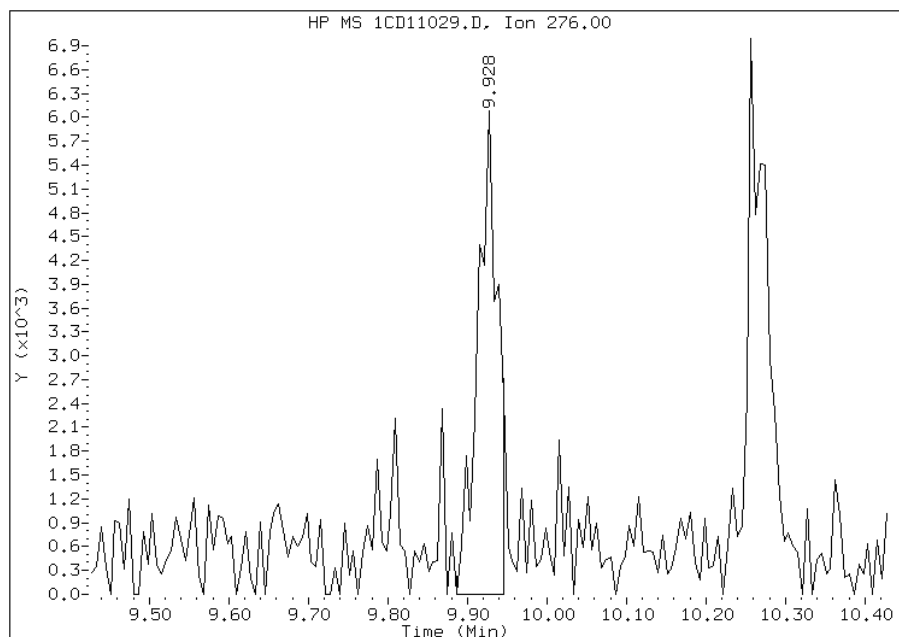
Processing Integration Results

RT: 9.93
Response: 10272
Amount: 2
Conc: 174



Manual Integration Results

RT: 9.93
Response: 10664
Amount: 2
Conc: 178



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0053C-CS Lab Sample ID: 680-89038-12
 Matrix: Solid Lab File ID: 1CD11030.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:30
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.46(g) Date Analyzed: 04/11/2013 20:39
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 36.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	610	U	610	120
208-96-8	Acenaphthylene	63	J	240	30
120-12-7	Anthracene	44	J	51	26
56-55-3	Benzo[a]anthracene	49	U	49	24
50-32-8	Benzo[a]pyrene	240		63	32
205-99-2	Benzo[b]fluoranthene	370		74	37
191-24-2	Benzo[g,h,i]perylene	260		120	27
207-08-9	Benzo[k]fluoranthene	120		49	22
218-01-9	Chrysene	240		55	27
53-70-3	Dibenz(a,h)anthracene	120	U	120	25
206-44-0	Fluoranthene	280		120	24
86-73-7	Fluorene	39	J	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	420		120	43
90-12-0	1-Methylnaphthalene	240	U	240	27
91-57-6	2-Methylnaphthalene	180	J	240	43
91-20-3	Naphthalene	85	J	240	27
85-01-8	Phenanthrene	250		49	24
129-00-0	Pyrene	270		120	22

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11030.D
 Lab Smp Id: 680-89038-A-12-A Client Smp ID: CV0053C-CS
 Inj Date : 11-APR-2013 20:39
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-12-a
 Misc Info : 680-89038-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 30
 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	15.460	Weight Extracted
M	36.099	% 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		3.674	3.675	(1.000)	322190	40.0000		
* 6 Acenaphthene-d10	164		4.762	4.763	(1.000)	226595	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	384268	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	8610	2.04272	827.0850	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	429810	40.0000		
* 23 Perylene-d12	264		8.803	8.798	(1.000)	404055	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	1820	0.20897	84.6113(Q)	
3 2-Methylnaphthalene	142		4.115	4.115	(1.120)	958	0.43719	177.0140	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1492	0.15539	62.9161	
9 Fluorene	166		5.145	5.104	(1.080)	706	0.09588	38.8200(Q)	
11 Phenanthrene	178		5.721	5.722	(1.003)	6893	0.61818	250.2975	
12 Anthracene	178		5.757	5.757	(1.009)	1223	0.10963	44.3883	
13 Carbazole	167		5.862	5.863	(1.028)	1441	0.13869	56.1557	
15 Fluoranthene	202		6.556	6.557	(1.150)	8530	0.68428	277.0585	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.721	6.722	(0.880)	8131	0.66497	269.2412
19 Chrysene	228	7.662	7.663	(1.003)	7141	0.59392	240.4738
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.961)	9295	0.91079	368.7736(M)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	3332	0.28854	116.8261(QMH)
22 Benzo(a)pyrene	252	8.745	8.751	(0.993)	6188	0.58659	237.5049
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	4210	1.04112	421.5405(MH)
26 Benzo(g,h,i)perylene	276	10.250	10.269	(1.164)	6280	0.63513	257.1588(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: 1CD11030.D

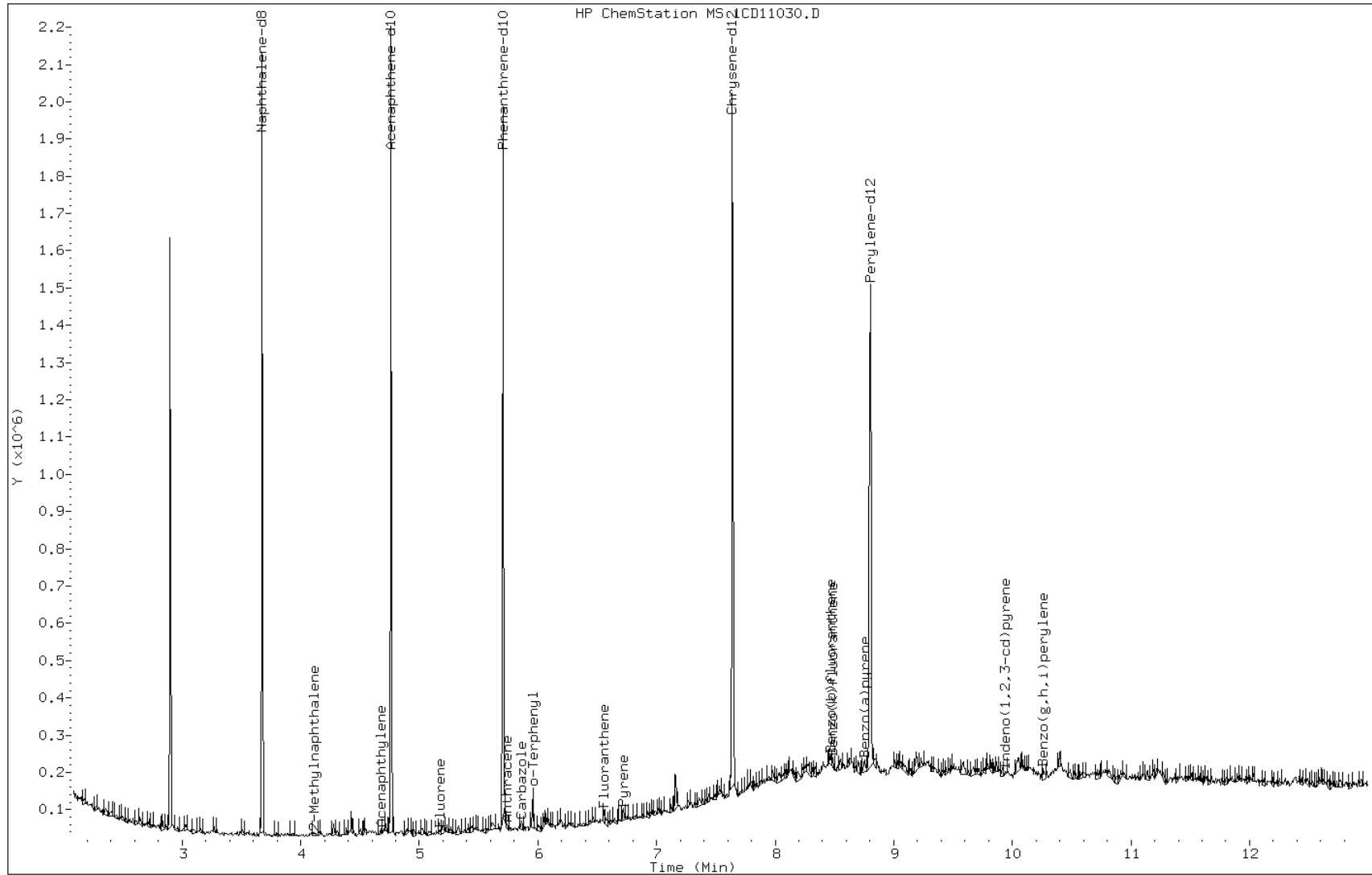
Date: 11-APR-2013 20:39

Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

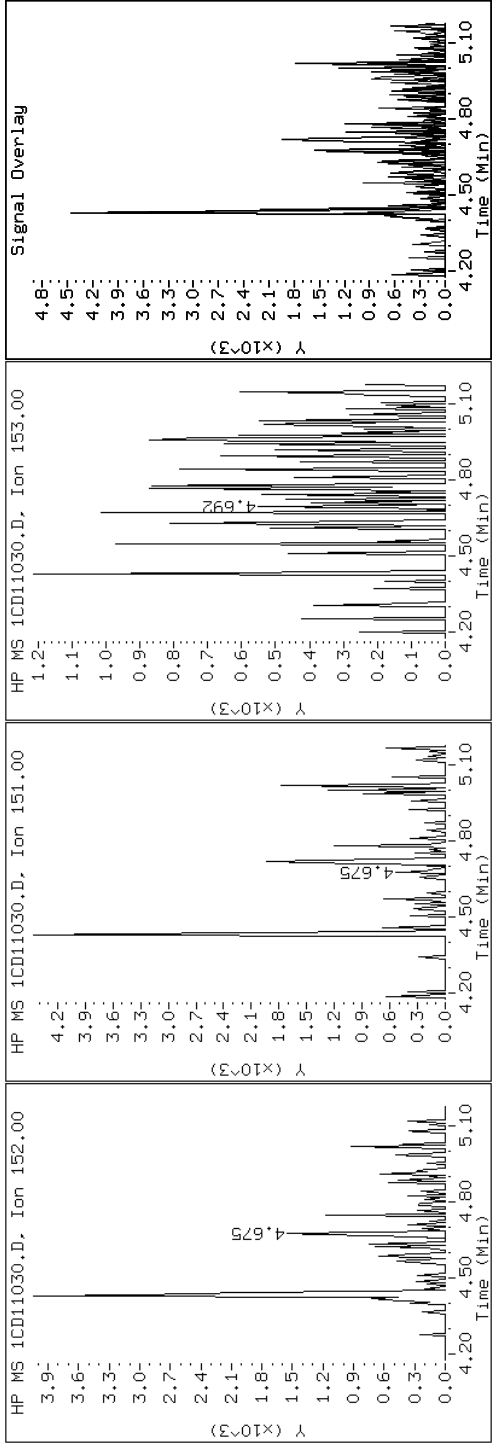
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

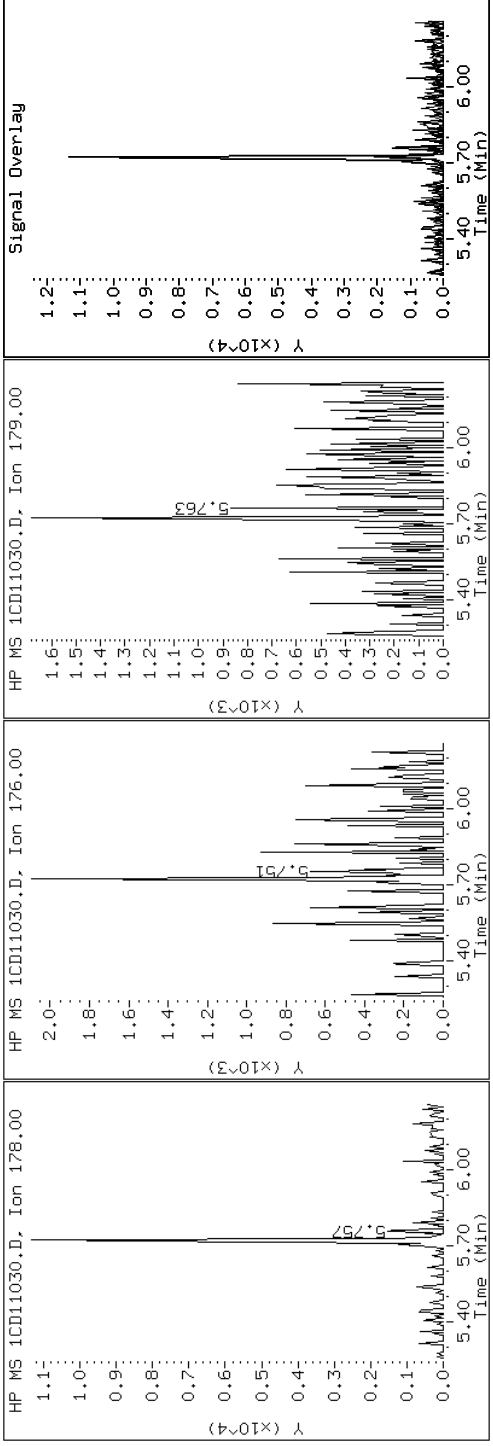
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

12 Anthracene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

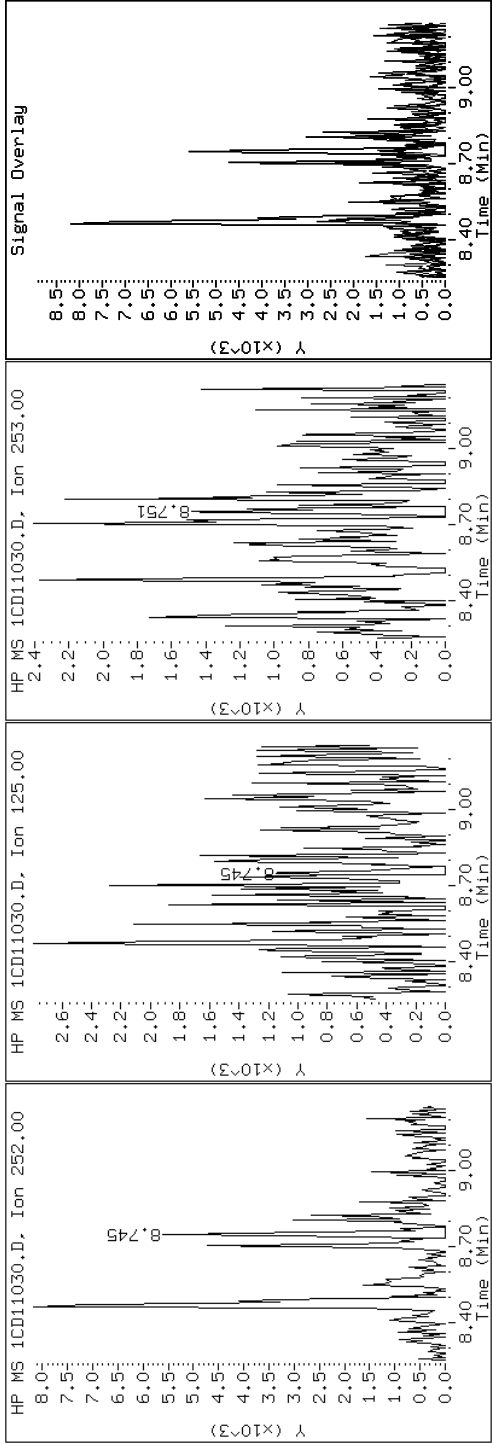
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

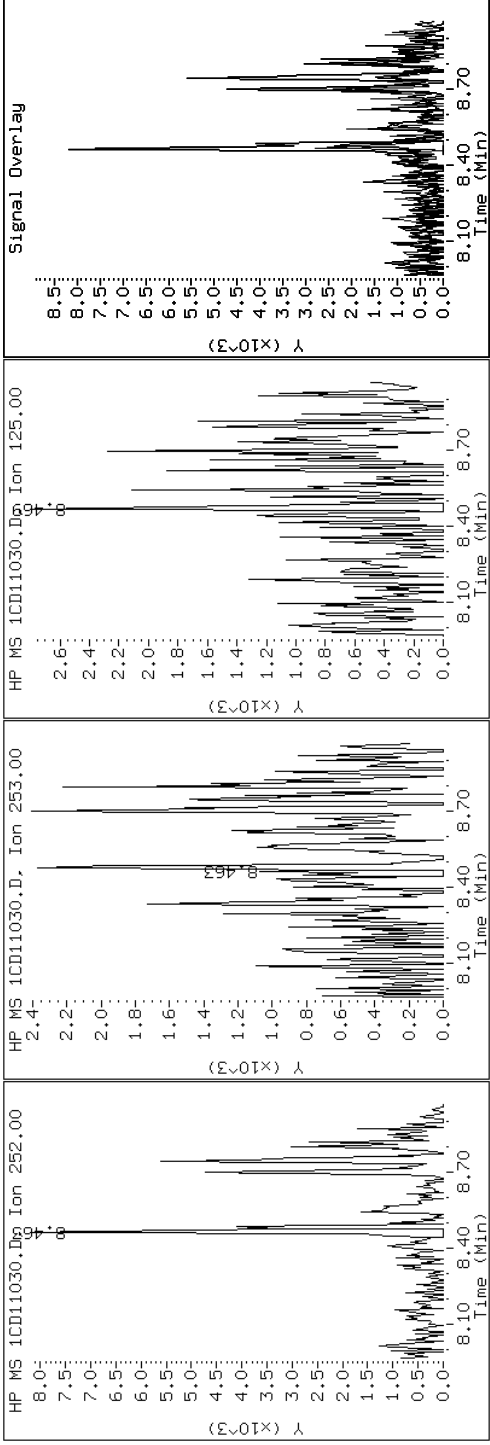
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

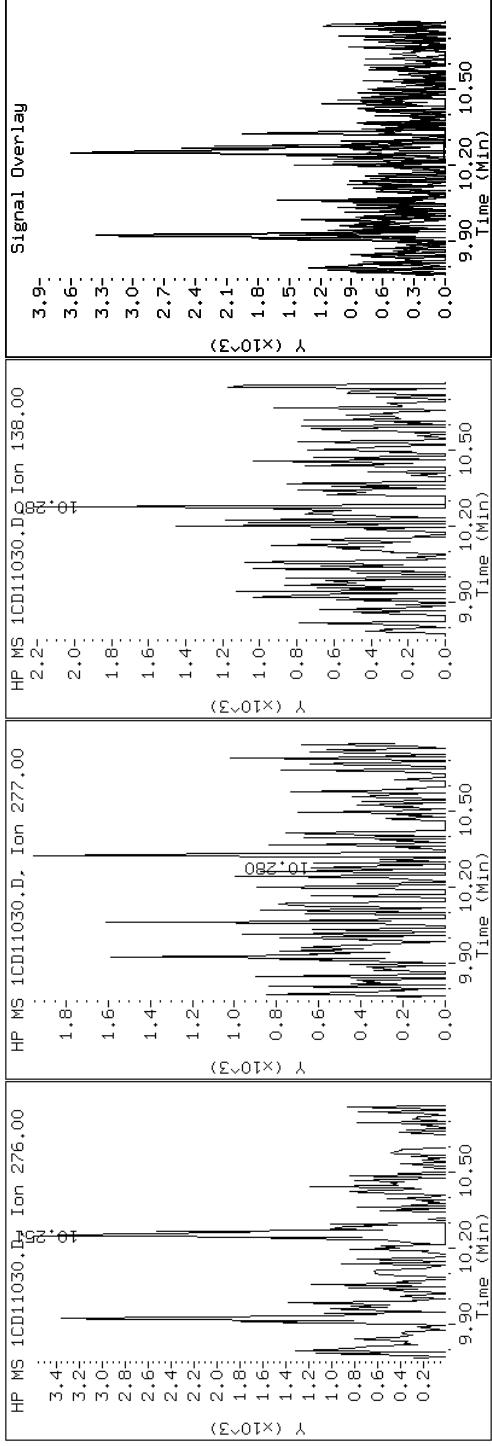
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

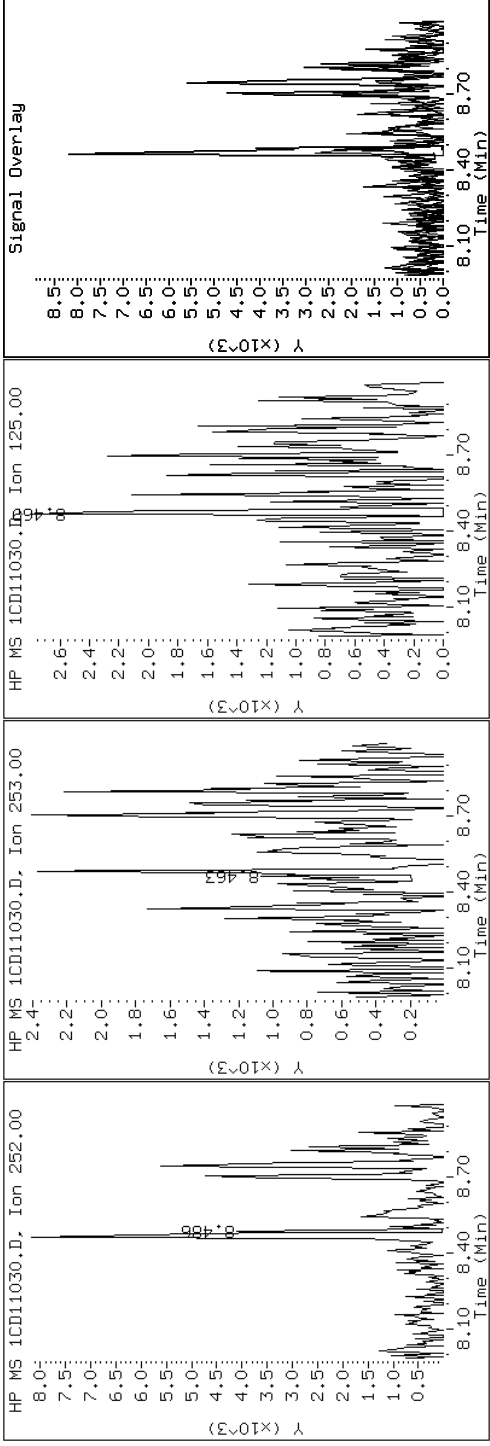
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

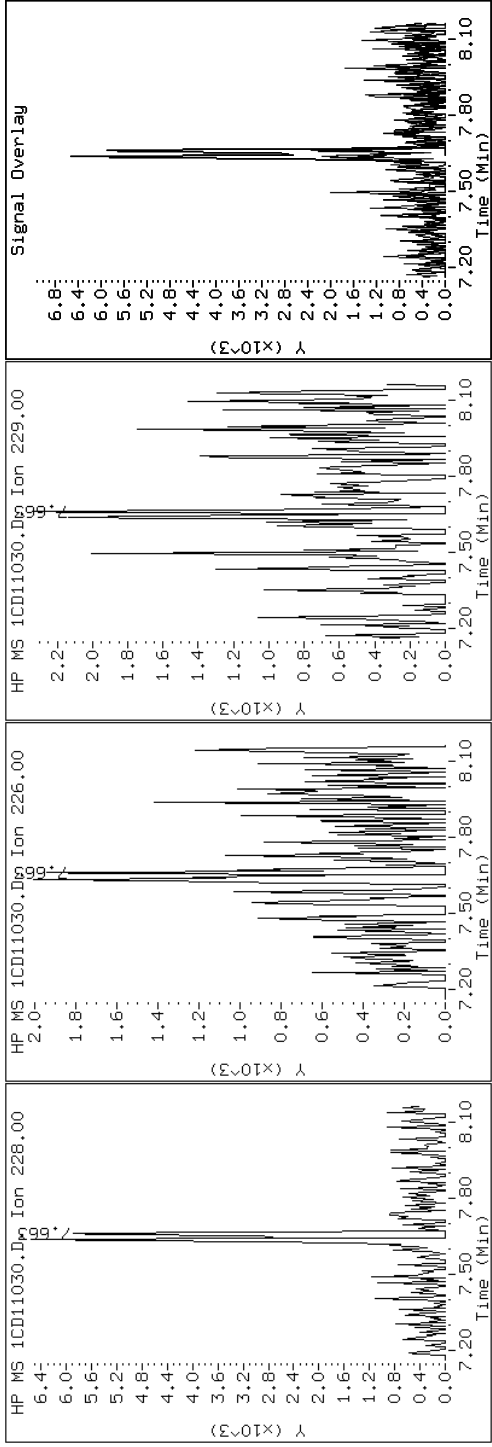
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

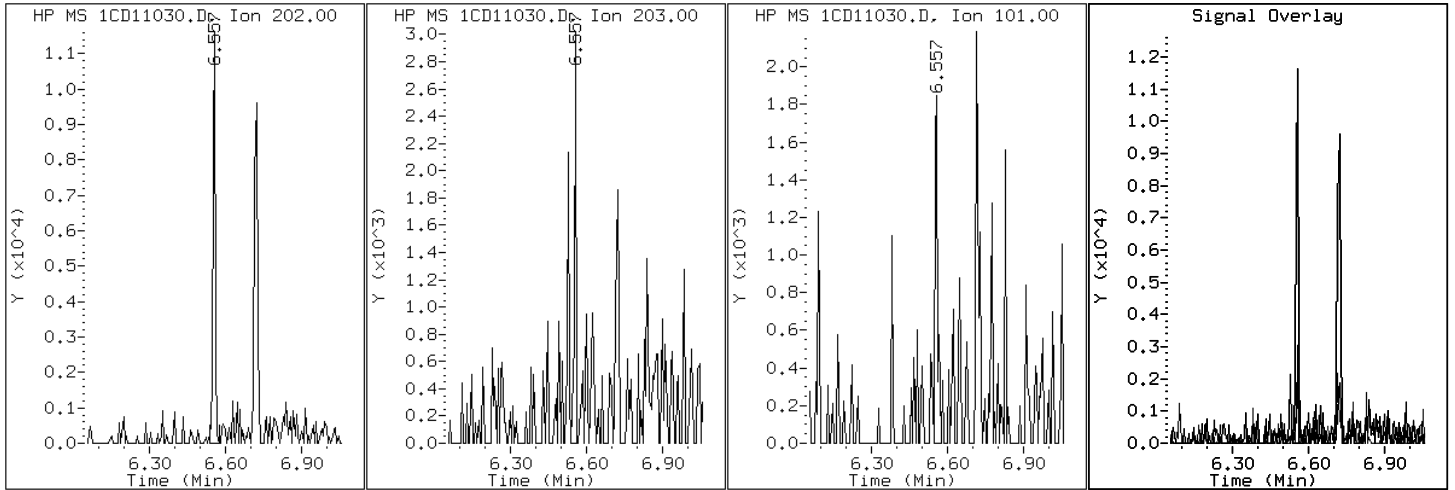
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

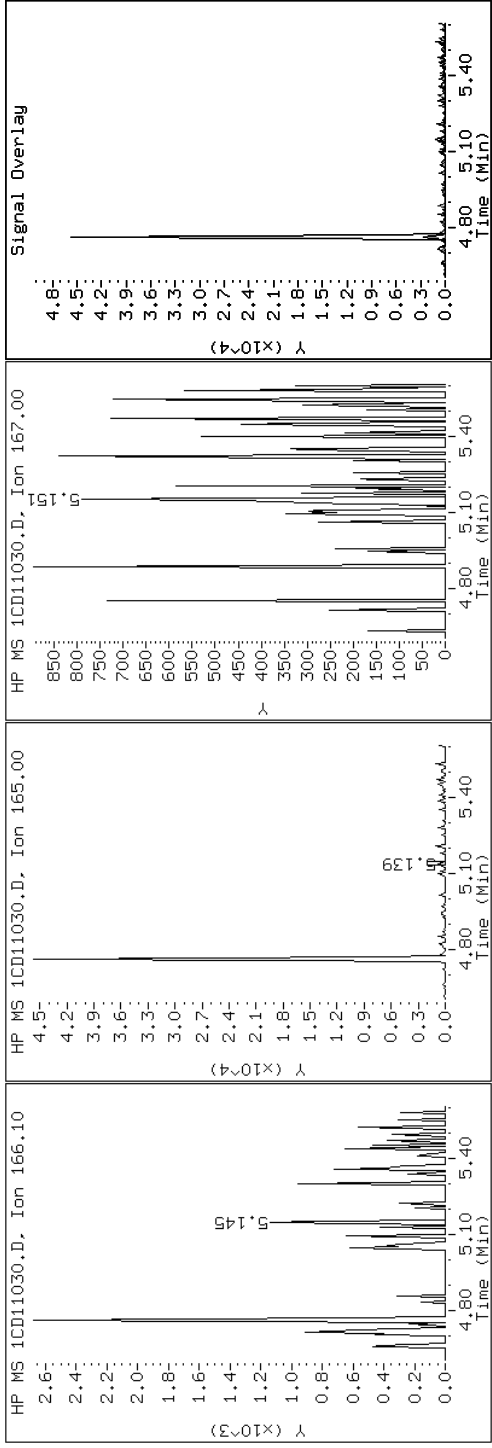
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

9 Fluorene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

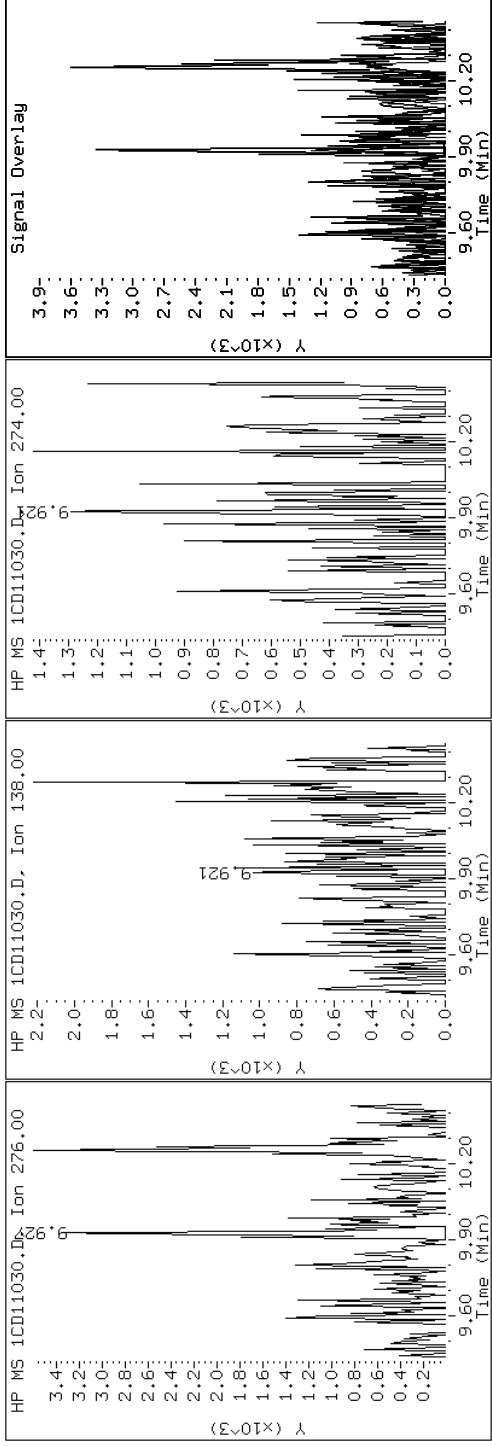
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

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



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

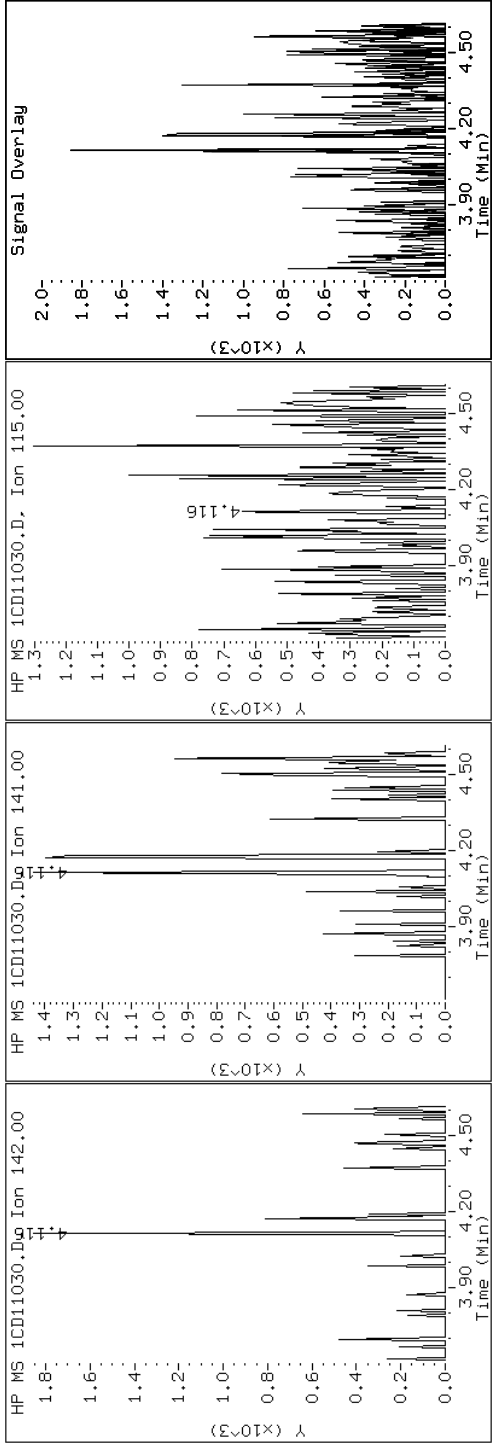
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

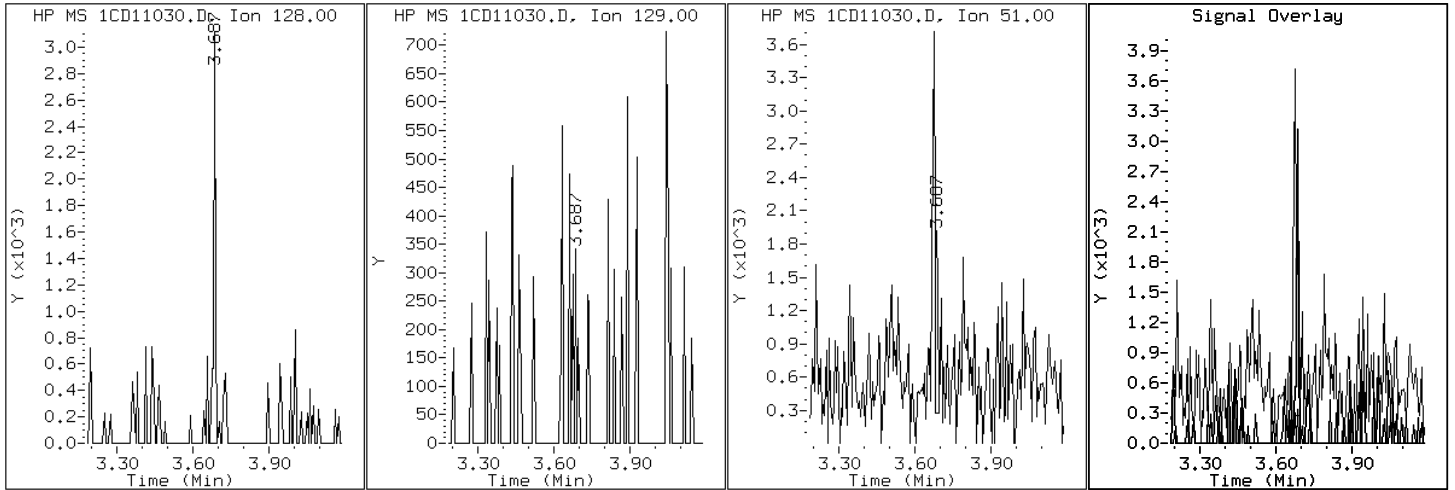
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

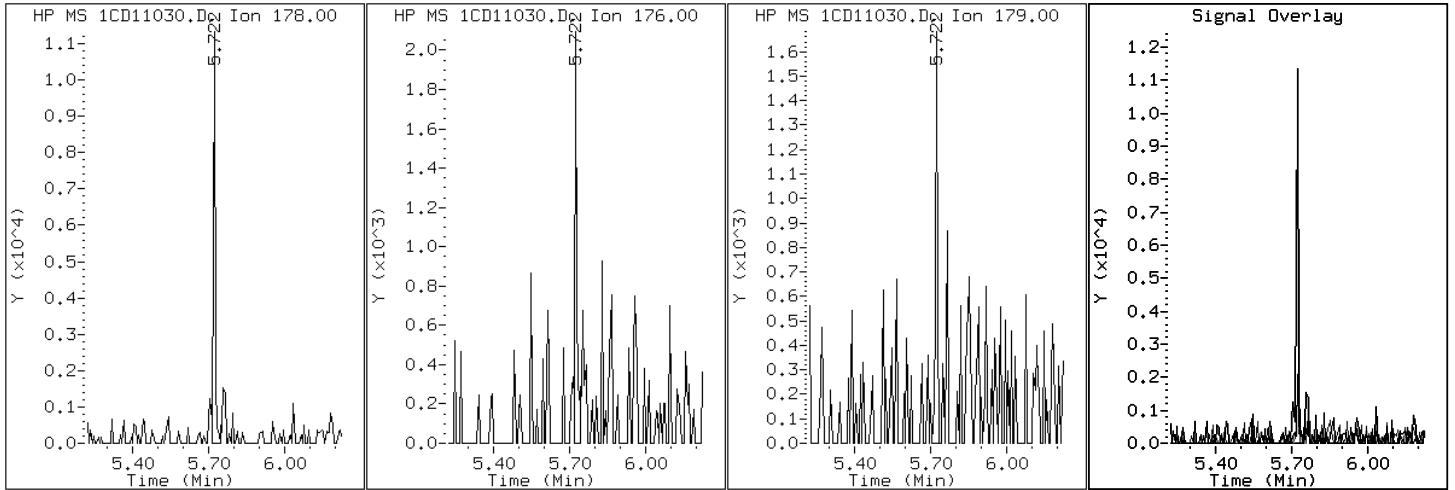
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11030.D

Date: 11-APR-2013 20:39

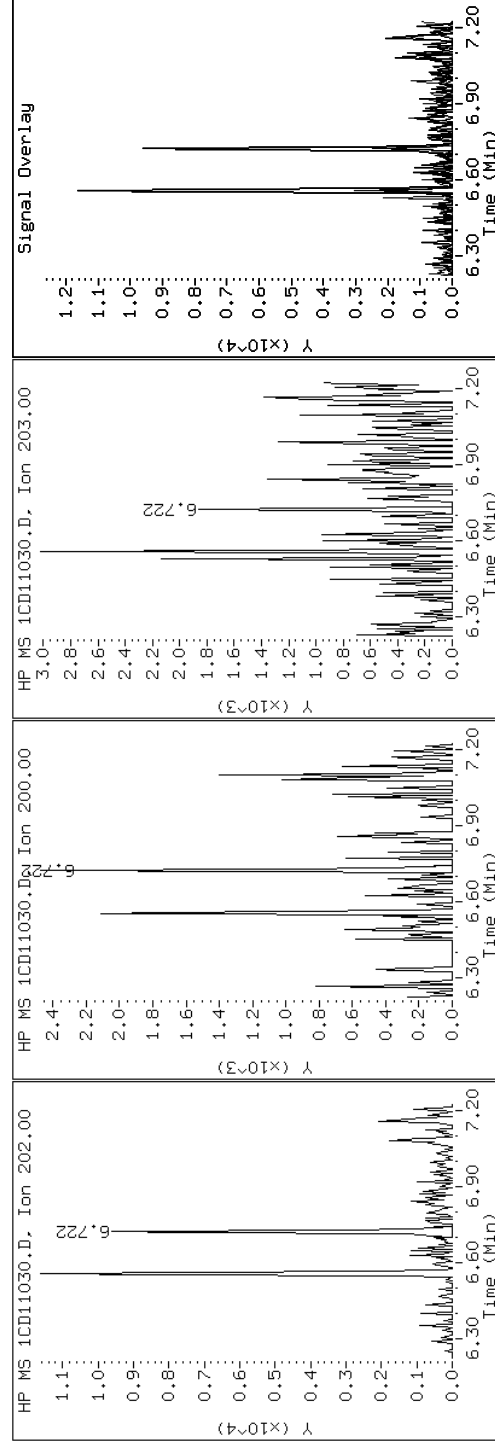
Client ID: CV0053C-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-12-a

Operator: SCC

16 Pyrene

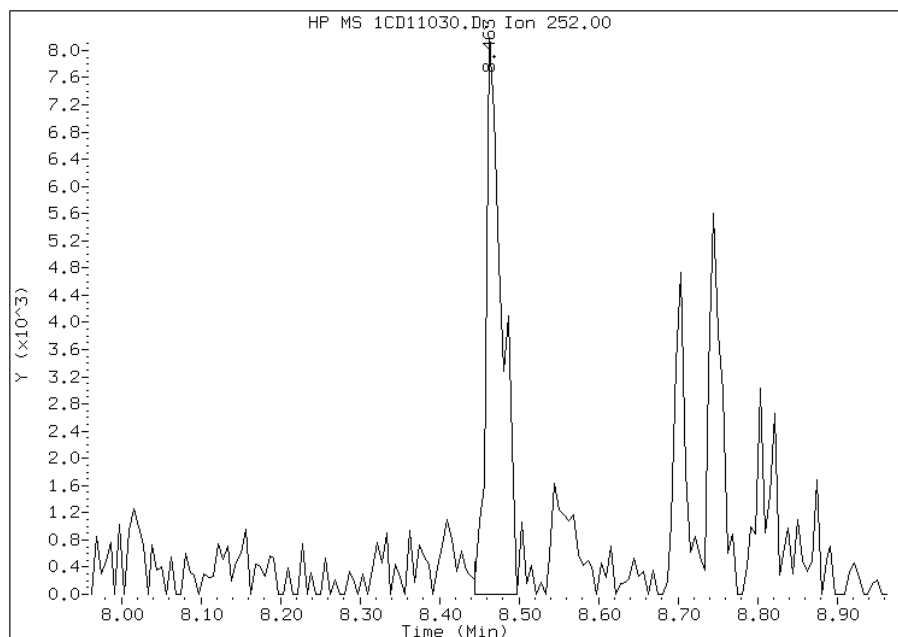


Manual Integration Report

Data File: 1CD11030.D
Inj. Date and Time: 11-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0053C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

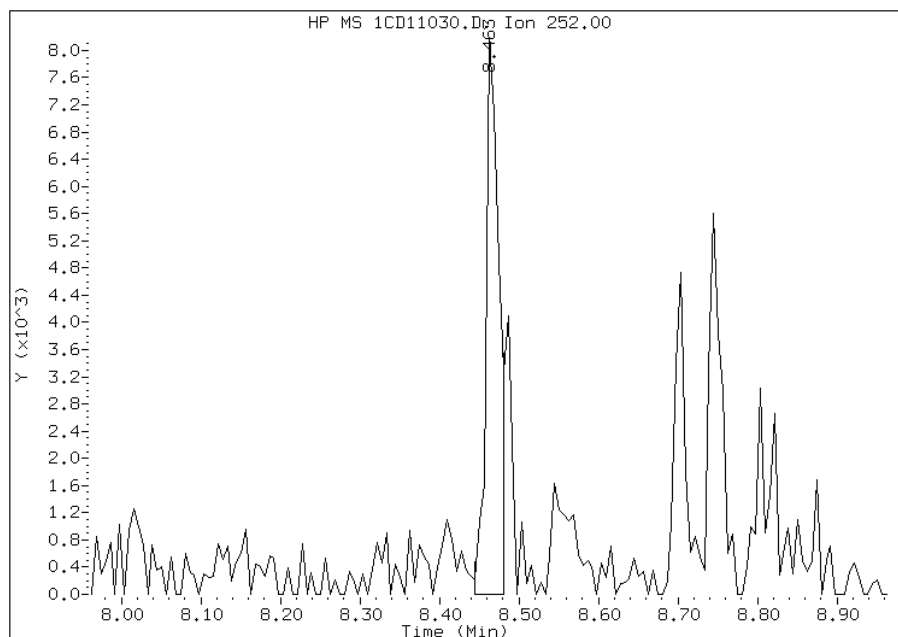
Processing Integration Results

RT: 8.46
Response: 11525
Amount: 1
Conc: 457



Manual Integration Results

RT: 8.46
Response: 9295
Amount: 1
Conc: 369



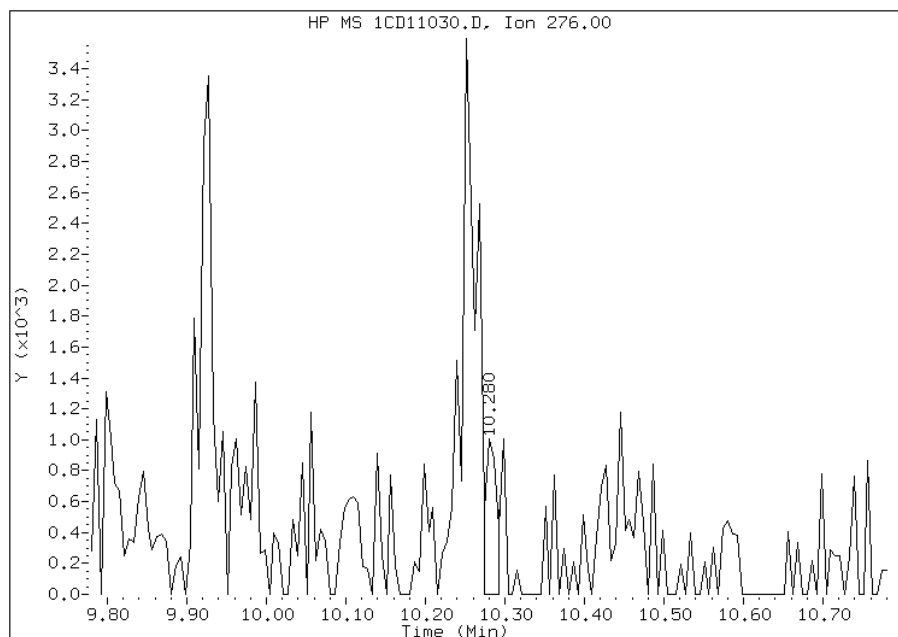
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11030.D
Inj. Date and Time: 11-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0053C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

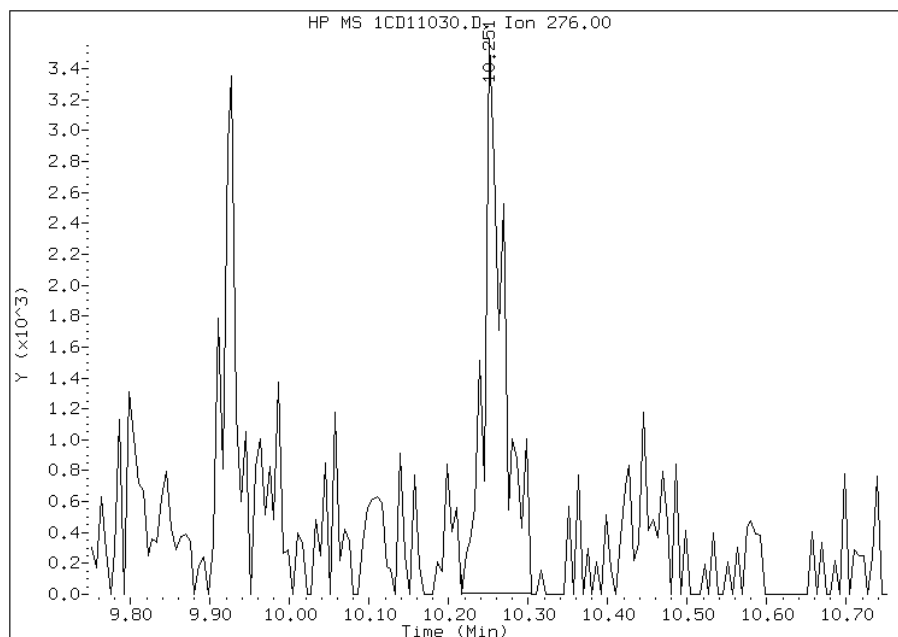
Processing Integration Results

RT: 10.28
Response: 1006
Amount: 0
Conc: 41



Manual Integration Results

RT: 10.25
Response: 6280
Amount: 1
Conc: 257



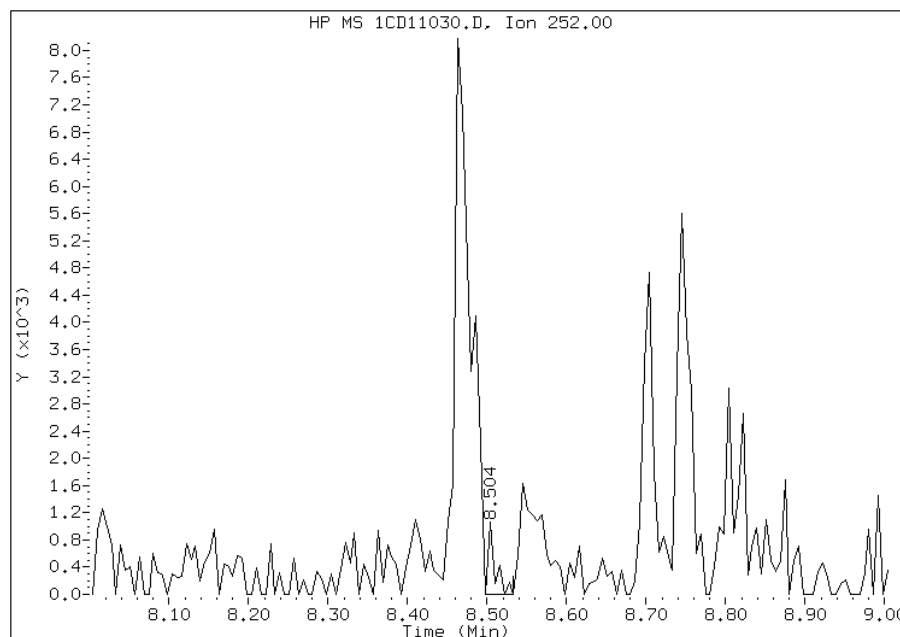
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11030.D
Inj. Date and Time: 11-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0053C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

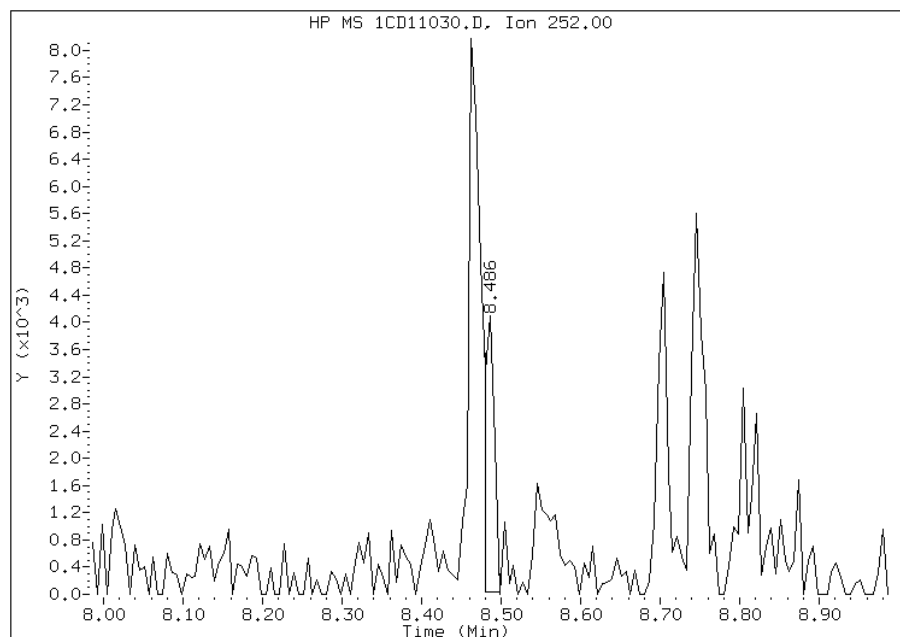
Processing Integration Results

RT: 8.50
Response: 643
Amount: 0
Conc: 23



Manual Integration Results

RT: 8.49
Response: 3332
Amount: 0
Conc: 117



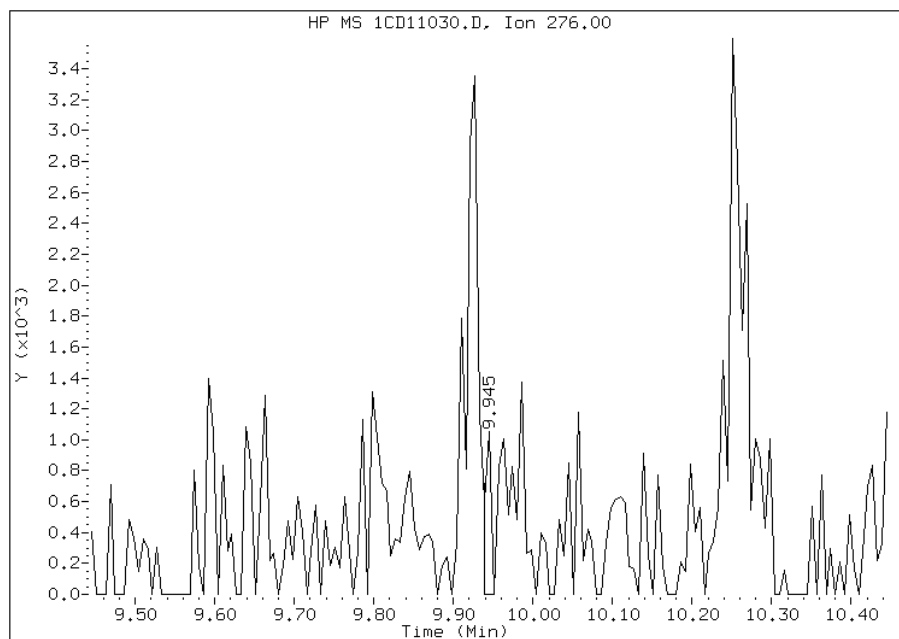
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11030.D
Inj. Date and Time: 11-APR-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0053C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

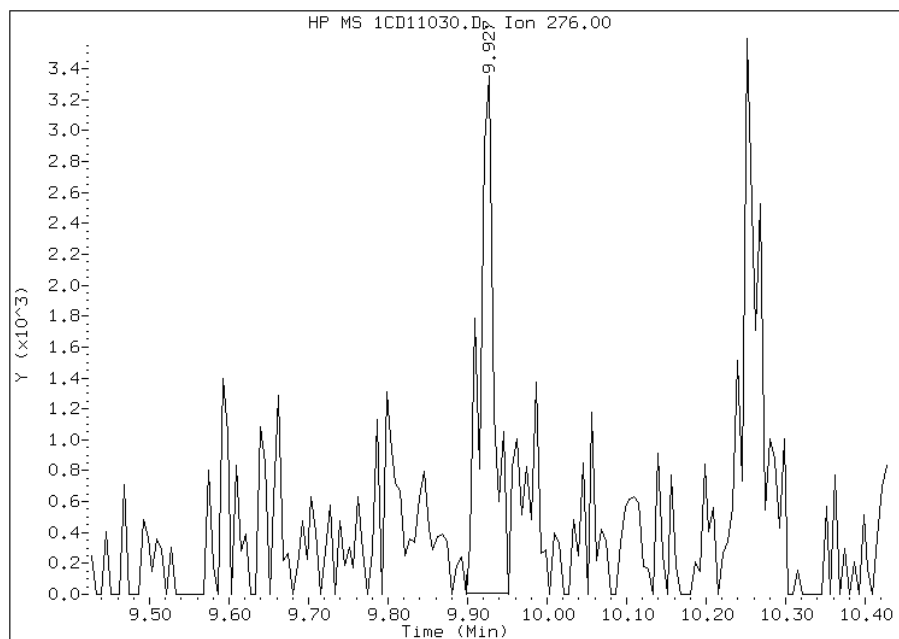
Processing Integration Results

RT: 9.95
Response: 584
Amount: 1
Conc: 281



Manual Integration Results

RT: 9.93
Response: 4210
Amount: 1
Conc: 422



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0053D-CS Lab Sample ID: 680-89038-13
 Matrix: Solid Lab File ID: 1CD11031.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 09:40
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.24(g) Date Analyzed: 04/11/2013 20:58
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	660	U	660	130
208-96-8	Acenaphthylene	82	J	260	33
120-12-7	Anthracene	86		55	28
56-55-3	Benzo[a]anthracene	240		53	26
50-32-8	Benzo[a]pyrene	190		69	34
205-99-2	Benzo[b]fluoranthene	340		81	40
191-24-2	Benzo[g,h,i]perylene	300		130	29
207-08-9	Benzo[k]fluoranthene	120		53	24
218-01-9	Chrysene	310		59	30
53-70-3	Dibenz(a,h)anthracene	130	U	130	27
206-44-0	Fluoranthene	340		130	26
86-73-7	Fluorene	130	U	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	520		130	47
90-12-0	1-Methylnaphthalene	630		260	29
91-57-6	2-Methylnaphthalene	800		260	47
91-20-3	Naphthalene	400		260	29
85-01-8	Phenanthrene	510		53	26
129-00-0	Pyrene	360		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11031.D
 Lab Smp Id: 680-89038-A-13-A Client Smp ID: CV0053D-CS
 Inj Date : 11-APR-2013 20:58
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-13-a
 Misc Info : 680-89038-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 31
 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	15.240	Weight Extracted
M	40.385	% 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		3.674	3.675	(1.000)	320055	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	228359	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	394022	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	10295	2.26747	998.2947	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	417168	40.0000		
* 23 Perylene-d12	264		8.803	8.798	(1.000)	386486	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	7819	0.90376	397.8984(Q)	
3 2-Methylnaphthalene	142		4.115	4.115	(1.120)	8963	1.82176	802.0633	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	7904	1.43025	629.6931	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1811	0.18716	82.3987	
11 Phenanthrene	178		5.721	5.722	(1.003)	13448	1.16903	514.6858	
12 Anthracene	178		5.751	5.757	(1.008)	2236	0.19547	86.0606	
13 Carbazole	167		5.862	5.863	(1.028)	2904	0.27258	120.0098	
15 Fluoranthene	202		6.551	6.557	(1.148)	9969	0.77992	343.3714	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.721	6.722	(0.880)	9711	0.81825	360.2495
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	6546	0.55490	244.3050
19 Chrysene	228	7.656	7.663	(1.002)	8183	0.70121	308.7188
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	7575	0.77600	341.6458(M)
21 Benzo(k)fluoranthene	252	8.480	8.486	(0.963)	2943	0.26644	117.3027(M)
22 Benzo(a)pyrene	252	8.745	8.751	(0.993)	4293	0.42545	187.3122(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.127)	5327	1.17080	515.4653
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.165)	6489	0.68610	302.0664(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: 1CD11031.D

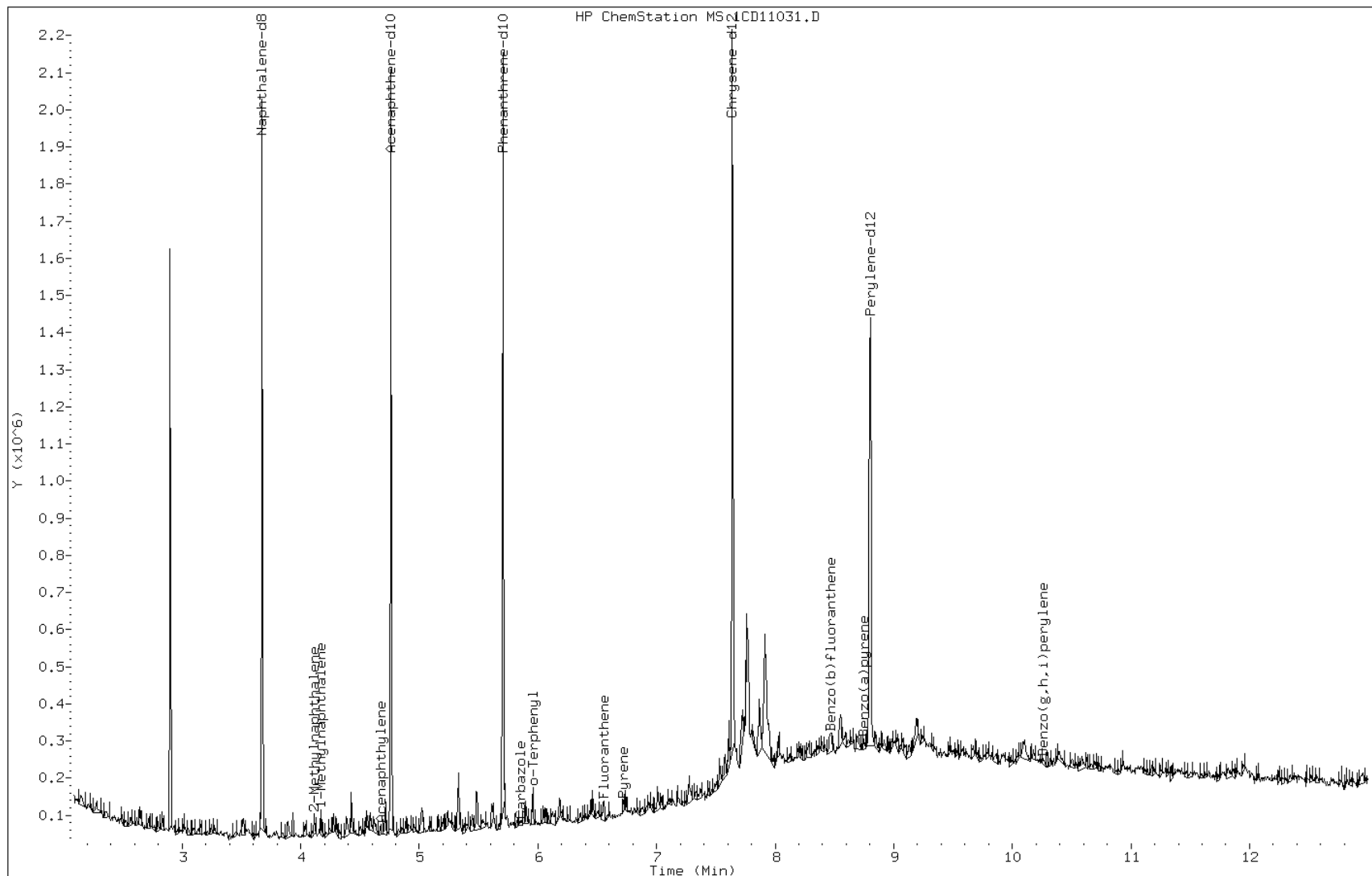
Date: 11-APR-2013 20:58

Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

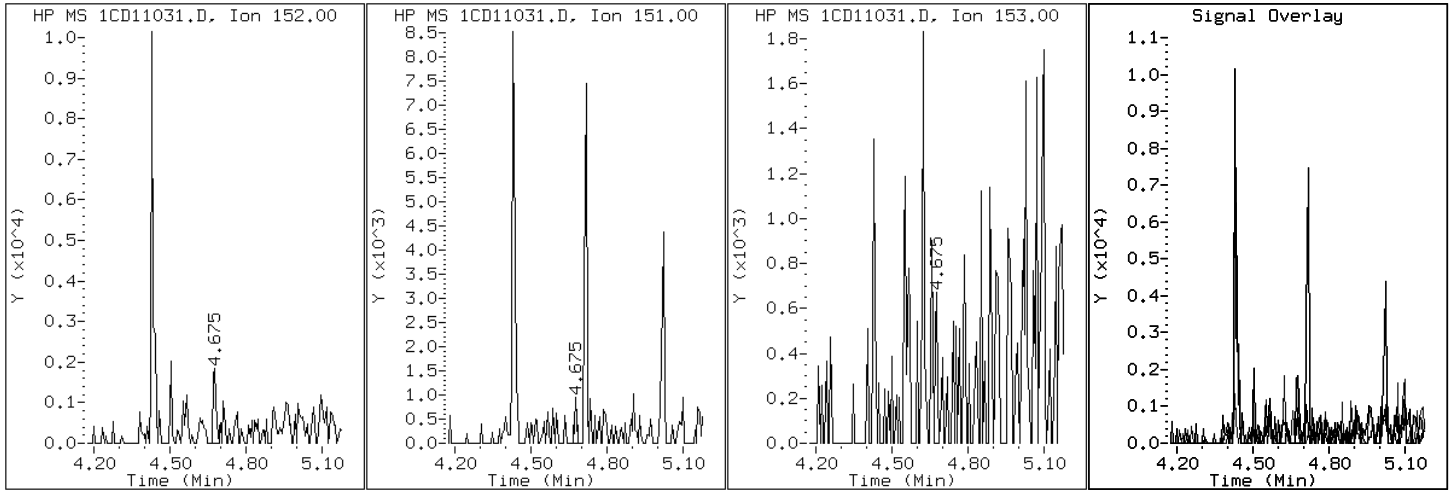
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

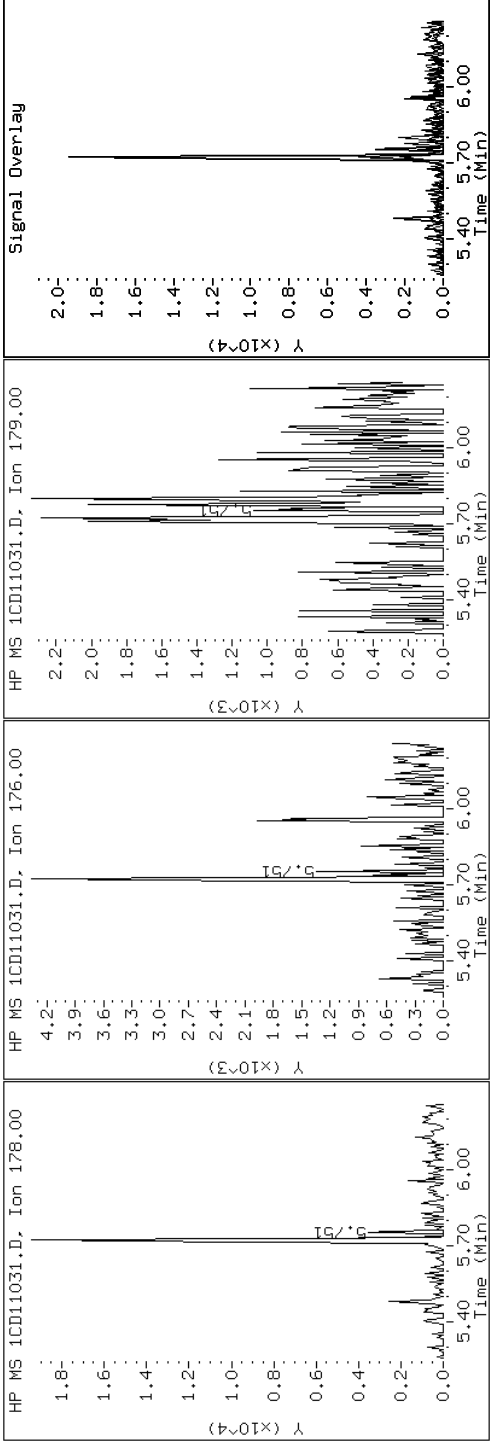
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

12 Anthracene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

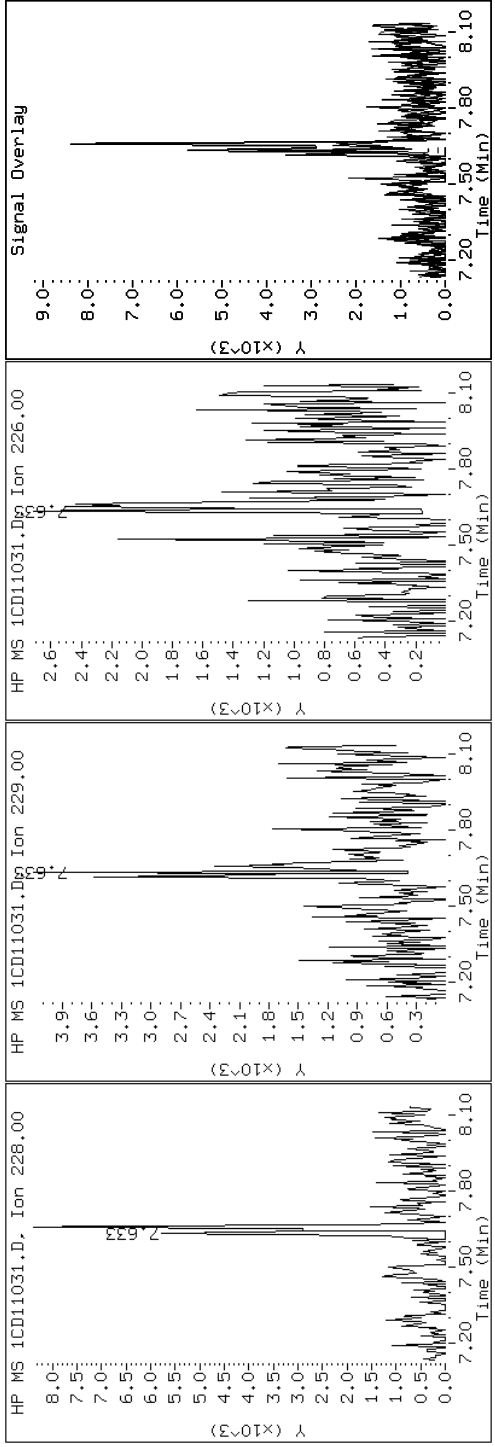
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

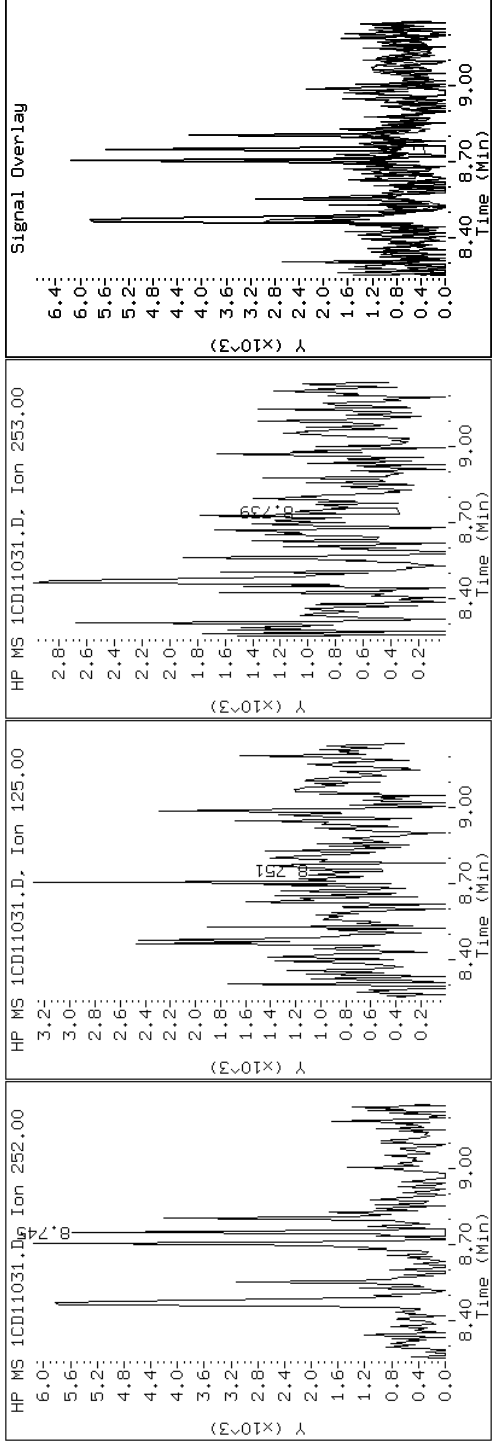
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

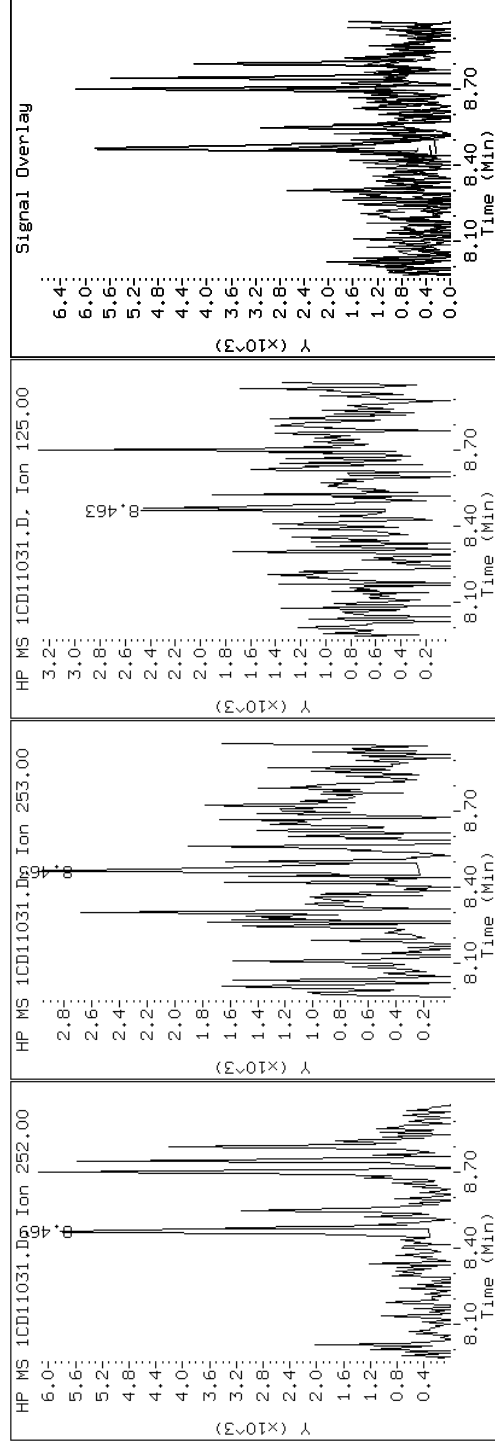
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

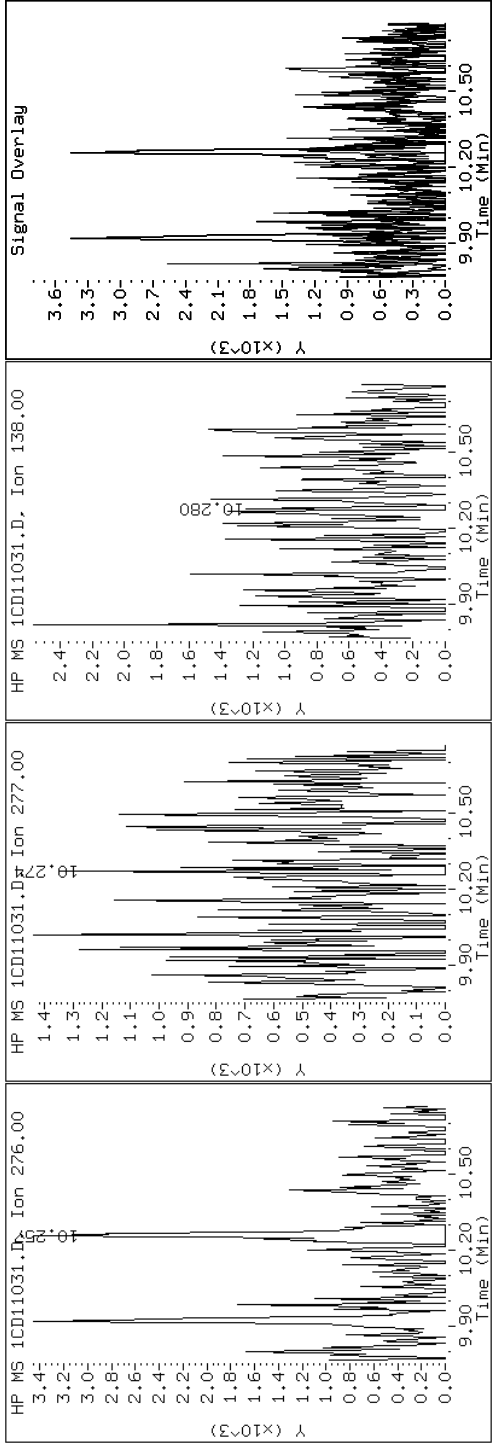
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

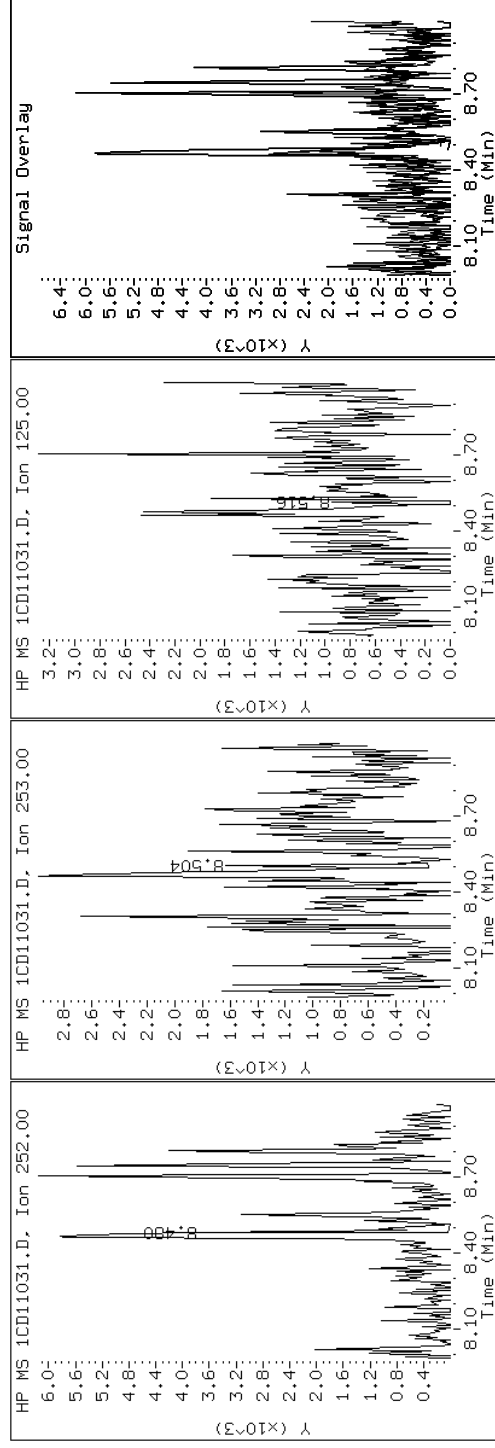
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

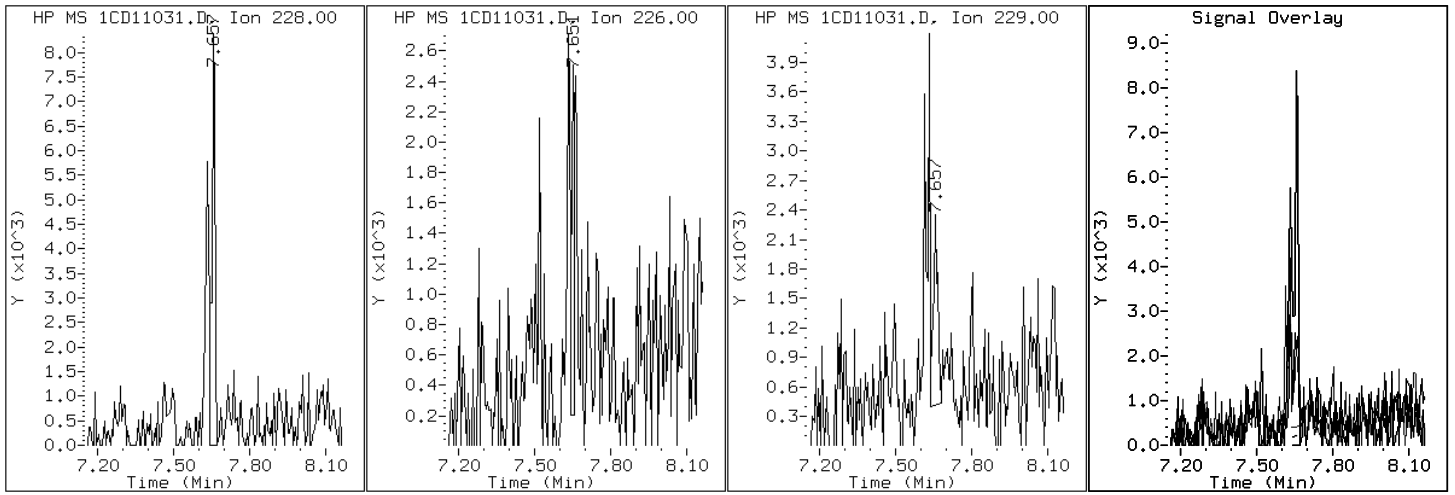
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

19 Chrysene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

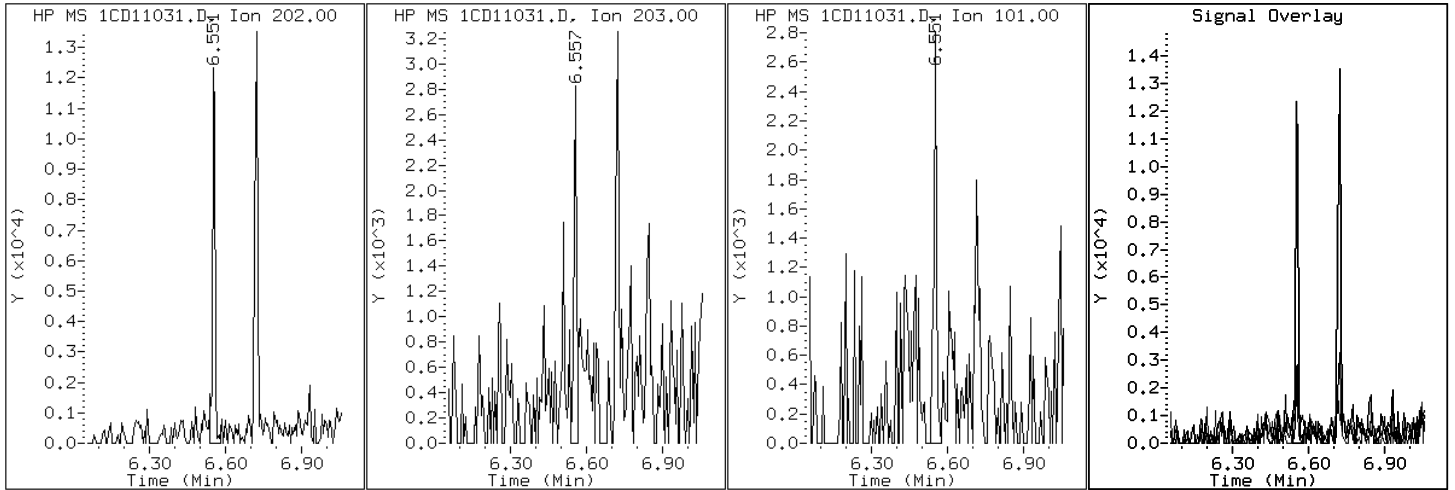
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

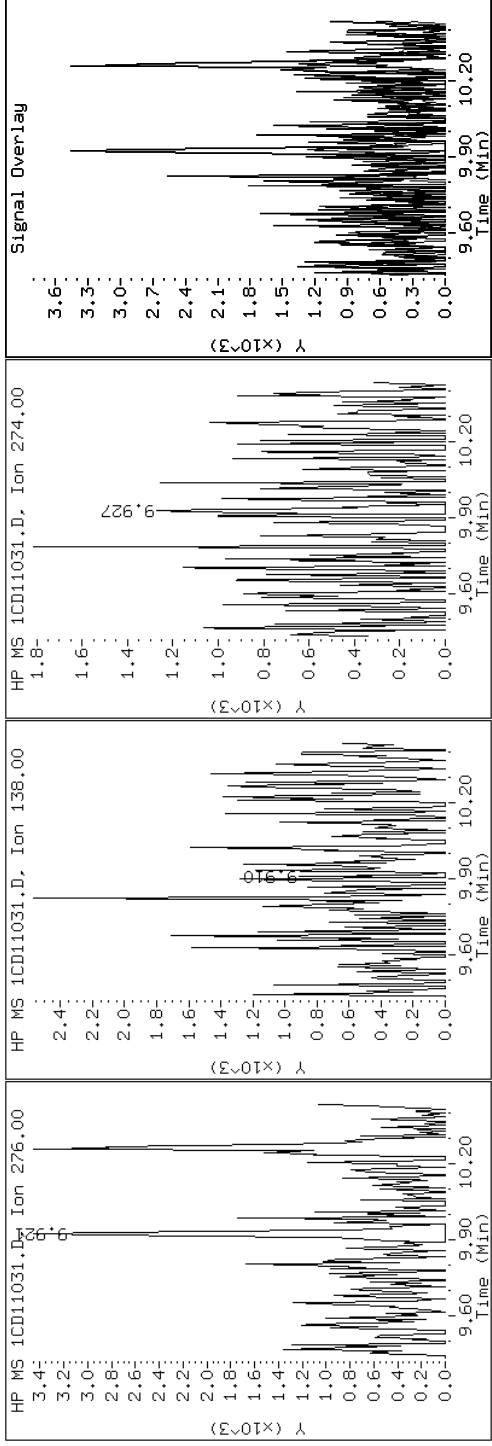
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

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



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

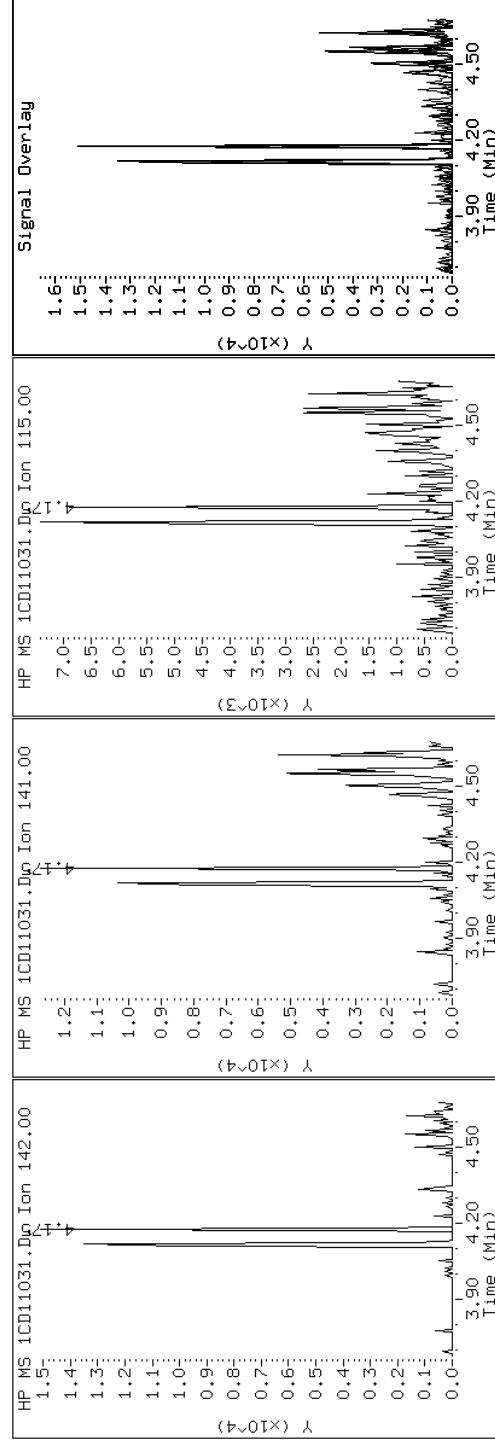
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

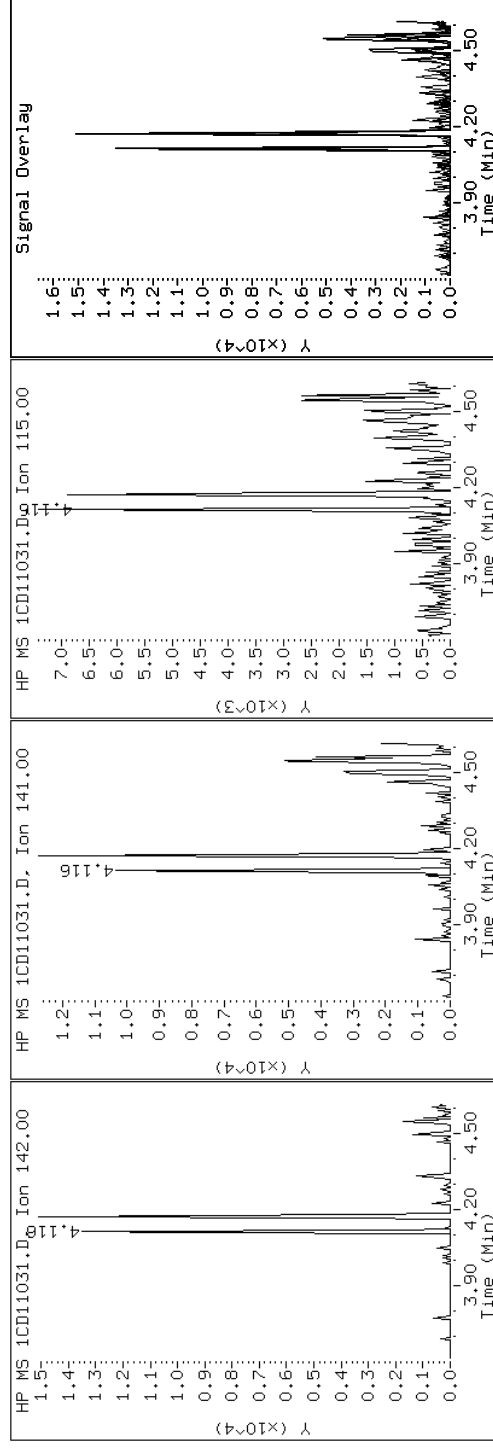
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

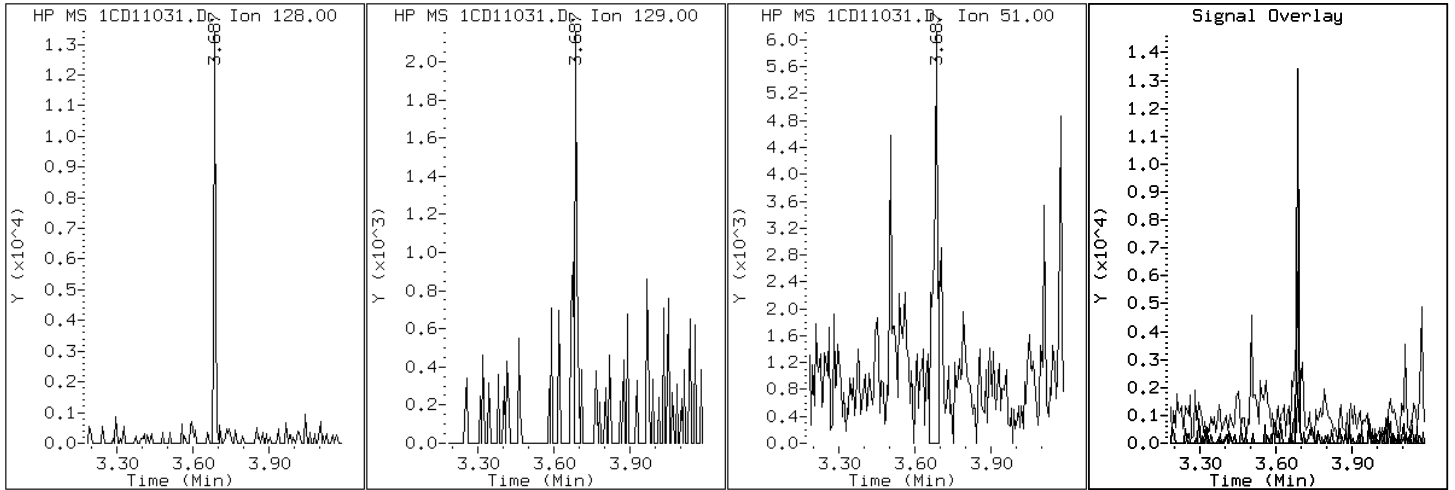
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

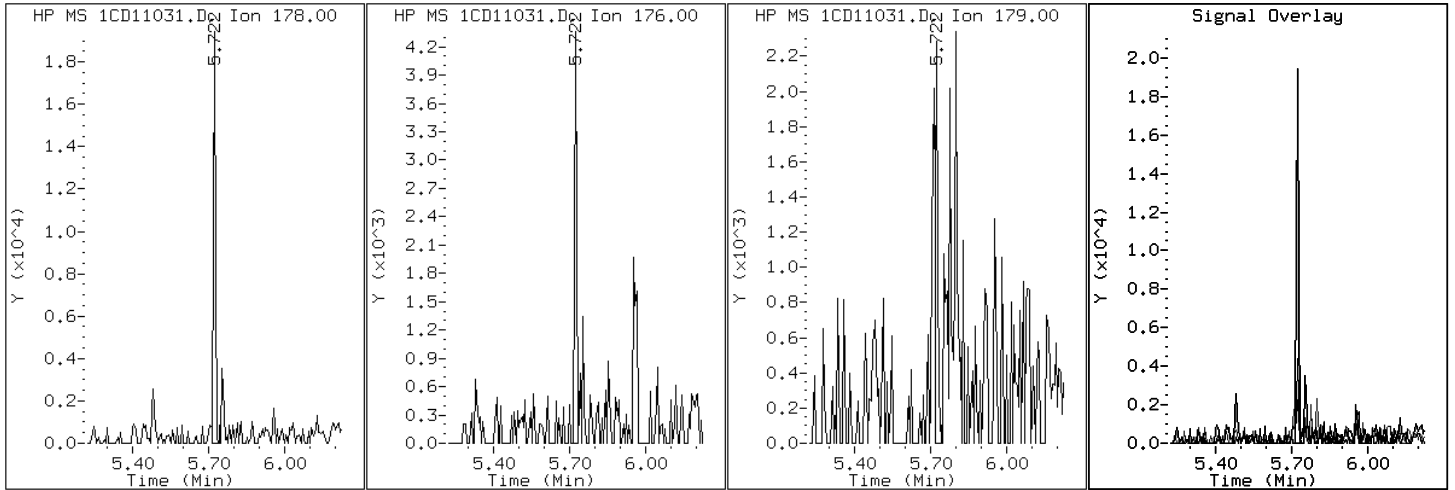
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11031.D

Date: 11-APR-2013 20:58

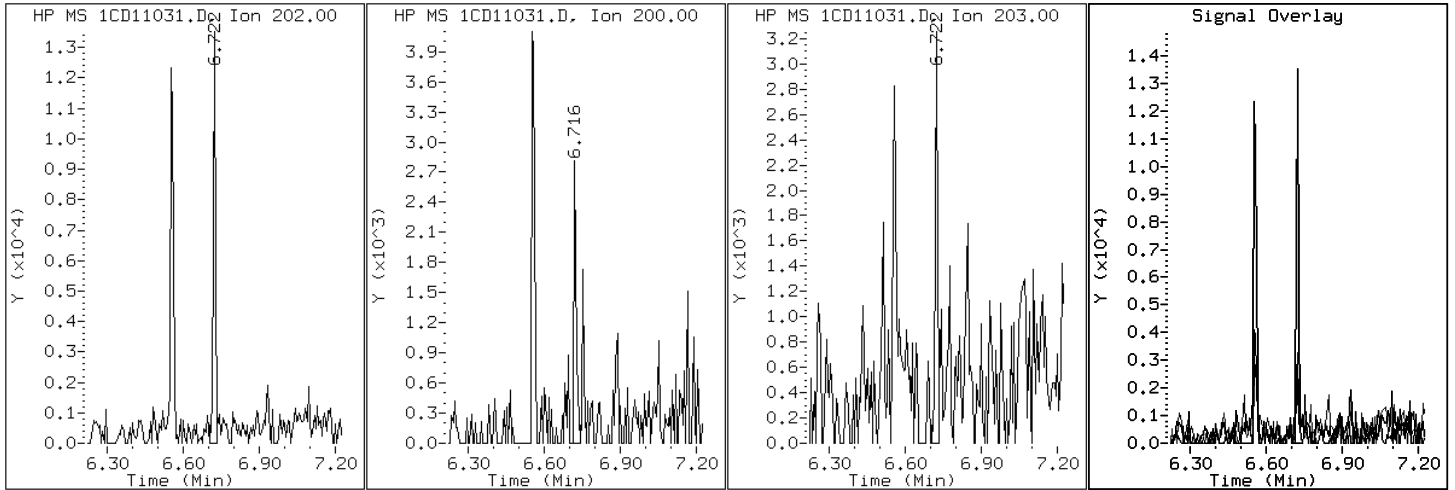
Client ID: CV0053D-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-13-a

Operator: SCC

16 Pyrene

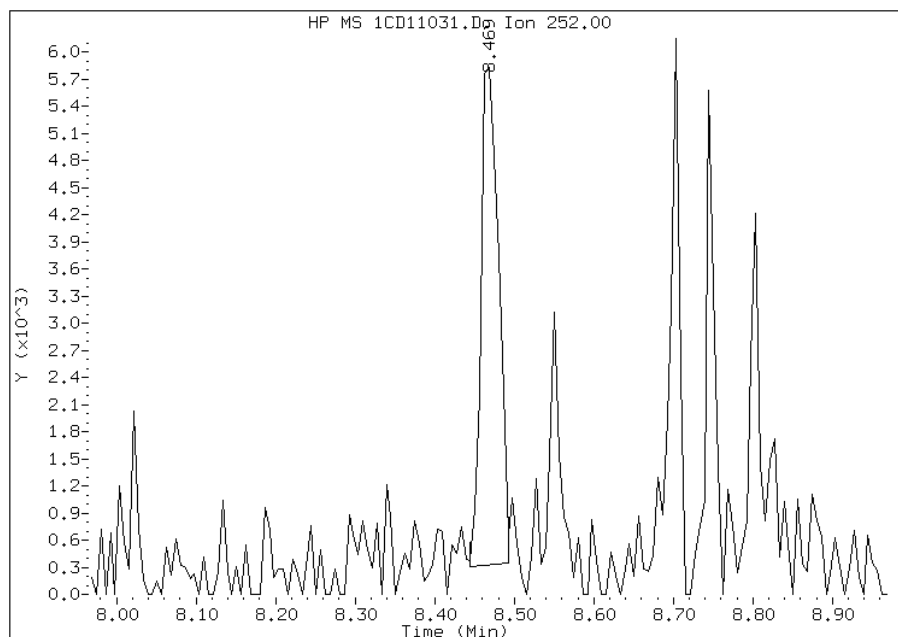


Manual Integration Report

Data File: 1CD11031.D
Inj. Date and Time: 11-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: CV0053D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/12/2013

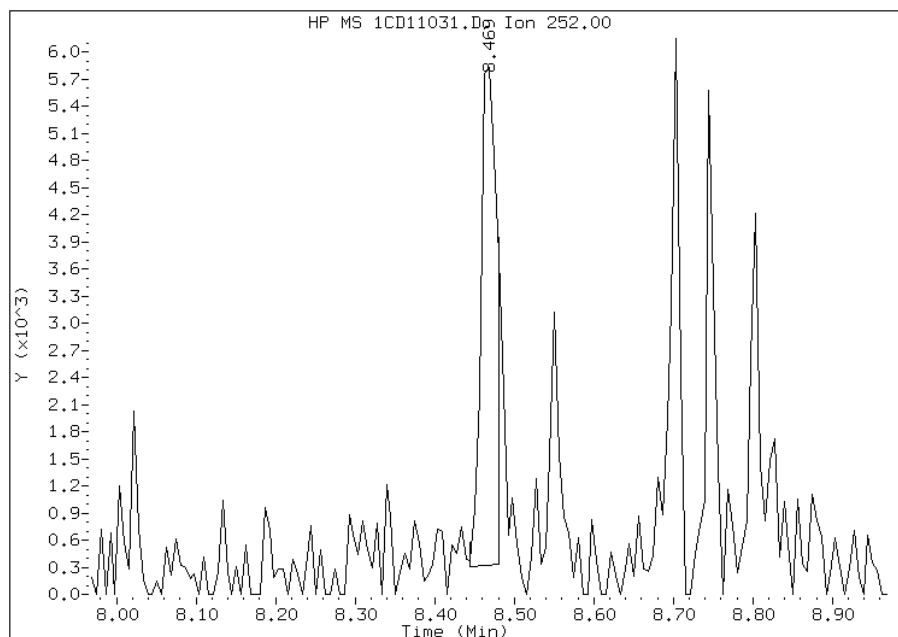
Processing Integration Results

RT: 8.47
Response: 8356
Amount: 1
Conc: 377



Manual Integration Results

RT: 8.47
Response: 7575
Amount: 1
Conc: 342



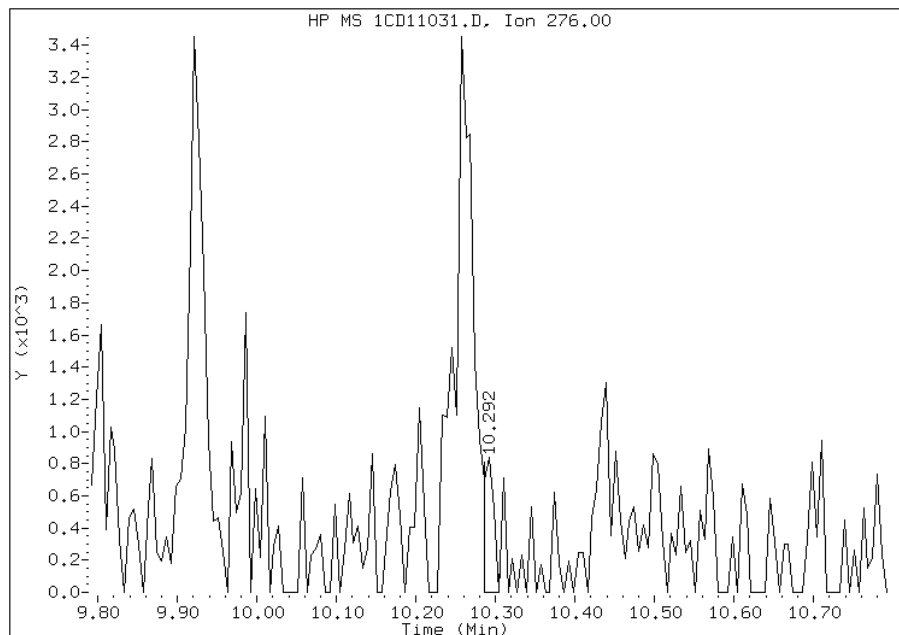
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11031.D
Inj. Date and Time: 11-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: CV0053D-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

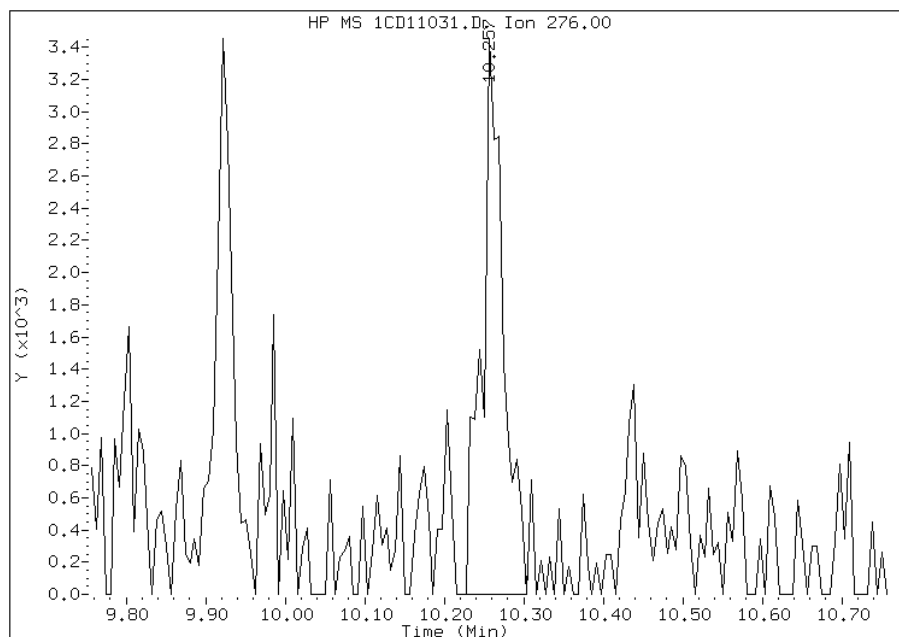
Processing Integration Results

RT: 10.29
Response: 725
Amount: 0
Conc: 34



Manual Integration Results

RT: 10.26
Response: 6489
Amount: 1
Conc: 302



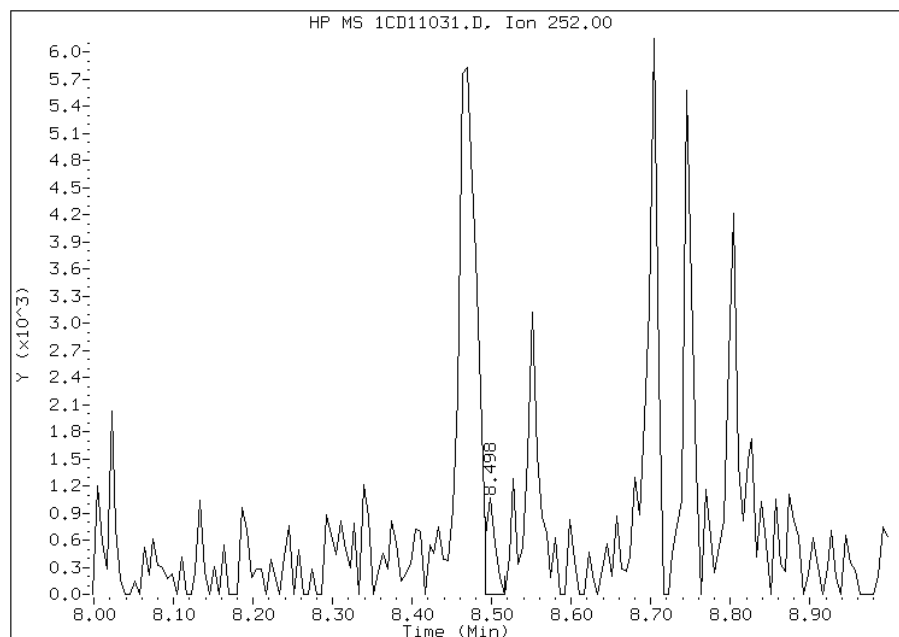
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11031.D
Inj. Date and Time: 11-APR-2013 20:58
Instrument ID: BSMC5973.i
Client ID: CV0053D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/12/2013

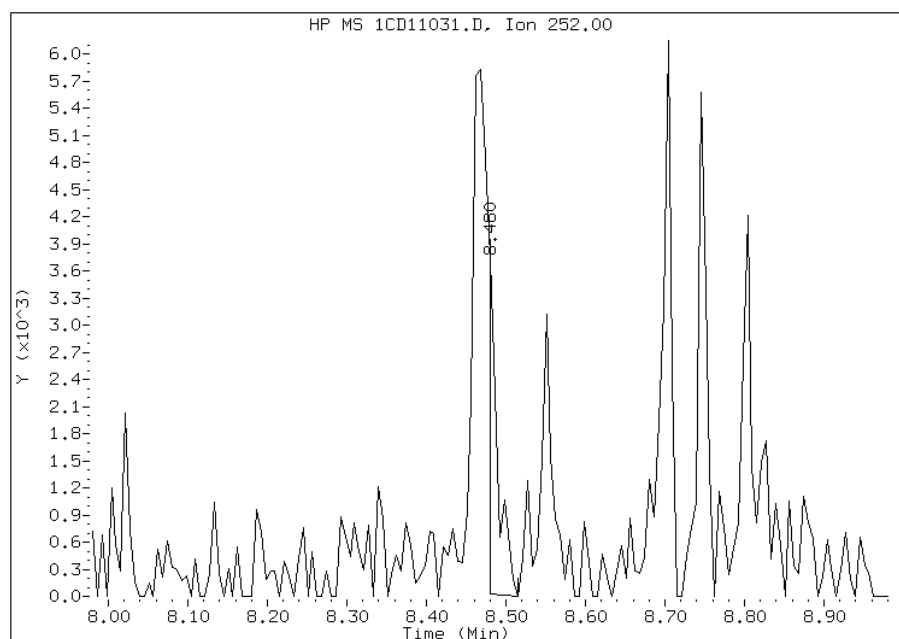
Processing Integration Results

RT: 8.50
Response: 870
Amount: 0
Conc: 35



Manual Integration Results

RT: 8.48
Response: 2943
Amount: 0
Conc: 117



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0789A-CS Lab Sample ID: 680-89038-14
 Matrix: Solid Lab File ID: 1CD11032.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:44
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.02(g) Date Analyzed: 04/11/2013 21:16
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	25	J	61	7.6
120-12-7	Anthracene	25		13	6.4
56-55-3	Benzo[a]anthracene	110		12	6.0
50-32-8	Benzo[a]pyrene	120		16	8.0
205-99-2	Benzo[b]fluoranthene	220		19	9.3
191-24-2	Benzo[g,h,i]perylene	120		31	6.7
207-08-9	Benzo[k]fluoranthene	79		12	5.5
218-01-9	Chrysene	140		14	6.9
53-70-3	Dibenz(a,h)anthracene	71		31	6.3
206-44-0	Fluoranthene	130		31	6.1
86-73-7	Fluorene	31	U	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	140		31	11
90-12-0	1-Methylnaphthalene	53	J	61	6.7
91-57-6	2-Methylnaphthalene	110		61	11
91-20-3	Naphthalene	72		61	6.7
85-01-8	Phenanthrene	88		12	6.0
129-00-0	Pyrene	120		31	5.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11032.D
 Lab Smp Id: 680-89038-A-14-A Client Smp ID: CV0789A-CS
 Inj Date : 11-APR-2013 21:16
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-14-a
 Misc Info : 680-89038-A-14-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 32
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	34.717	% 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		3.675	3.675	(1.000)	345105	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	242666	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	438382	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	33472	5.30049	540.5625	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	461331	40.0000		
* 23 Perylene-d12	264		8.804	8.798	(1.000)	447441	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	6557	0.70288	71.6824	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	5251	1.11436	113.6459	
4 1-Methylnaphthalene	142		4.175	4.175	(1.136)	3118	0.52326	53.3635	
5 Acenaphthylene	152		4.674	4.675	(0.981)	2543	0.24731	25.2214	
11 Phenanthrene	178		5.721	5.722	(1.003)	10975	0.85960	87.6650	
12 Anthracene	178		5.751	5.757	(1.008)	3170	0.24908	25.4023	
13 Carbazole	167		5.863	5.863	(1.028)	3034	0.25597	26.1045(Q)	
15 Fluoranthene	202		6.551	6.557	(1.148)	17625	1.23935	126.3928	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.721	6.722 (0.880)		15679	1.19465	121.8342
17 Benzo(a)anthracene	228	7.633	7.634 (0.999)		14259	1.09302	111.4697
19 Chrysene	228	7.657	7.663 (1.002)		17529	1.35828	138.5221
20 Benzo(b)fluoranthene	252	8.462	8.468 (0.961)		24440	2.16260	220.5493(H)
21 Benzo(k)fluoranthene	252	8.486	8.486 (0.964)		9899	0.77409	78.9442
22 Benzo(a)pyrene	252	8.751	8.751 (0.994)		14270	1.22155	124.5777
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933 (1.127)		8592	1.37973	140.7100(MH)
25 Dibenzo(a,h)anthracene	278	9.933	9.945 (1.128)		2889	0.69917	71.3038(M)
26 Benzo(g,h,i)perylene	276	10.262	10.269 (1.166)		12367	1.12946	115.1861(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: 1CD11032.D

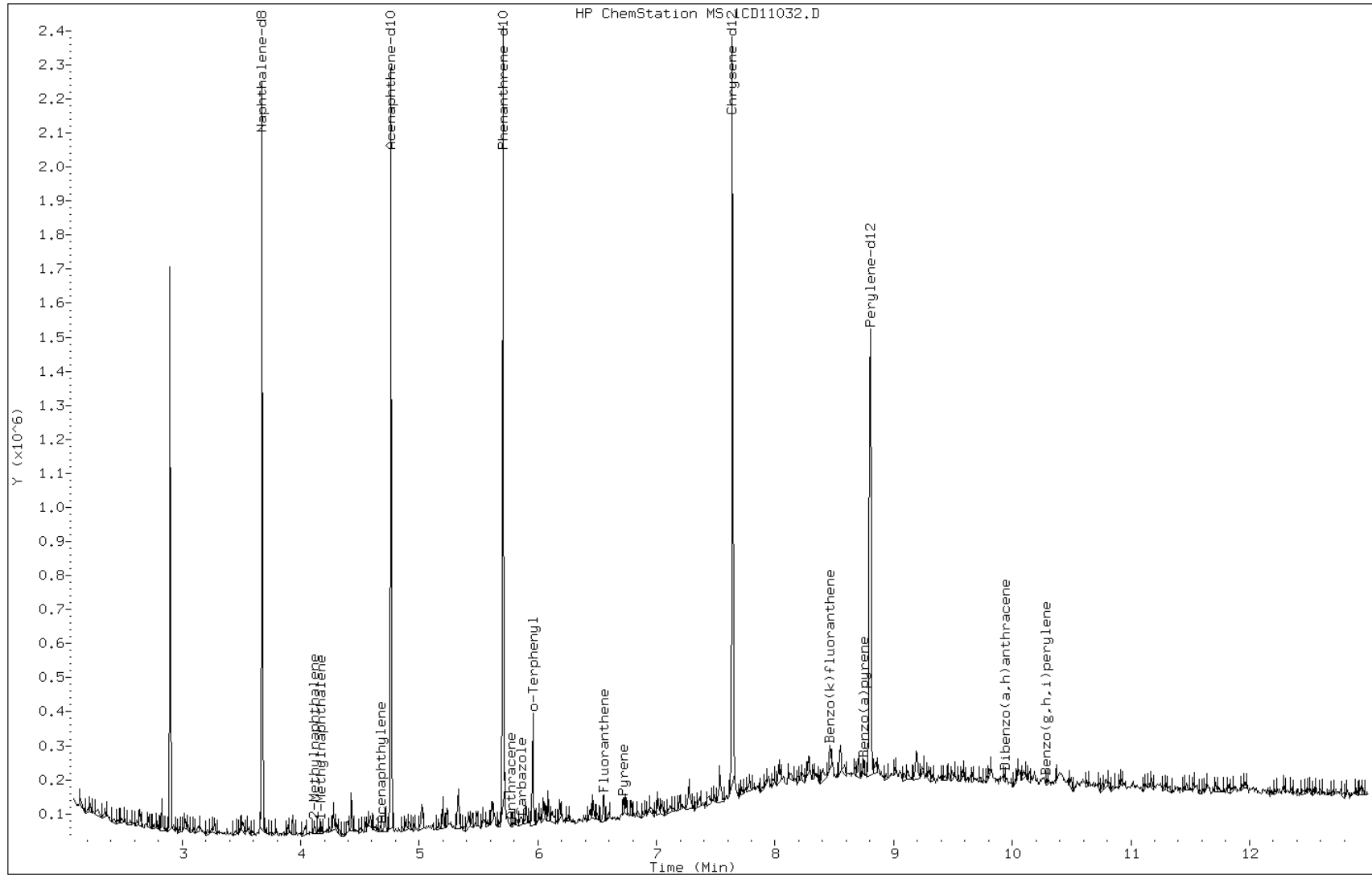
Date: 11-APR-2013 21:16

Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

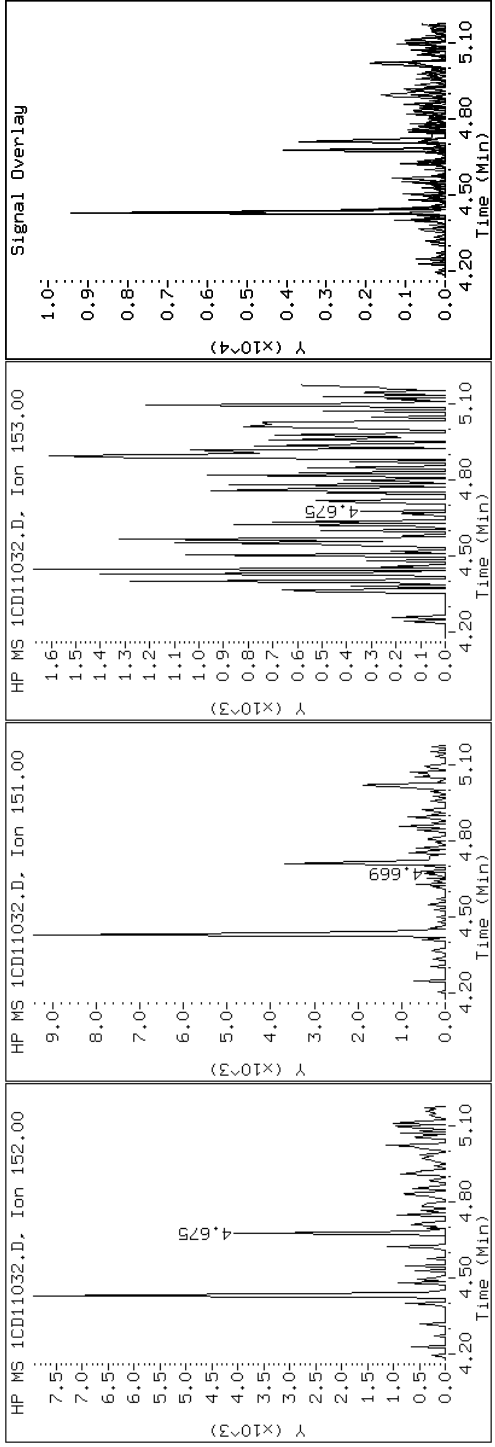
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

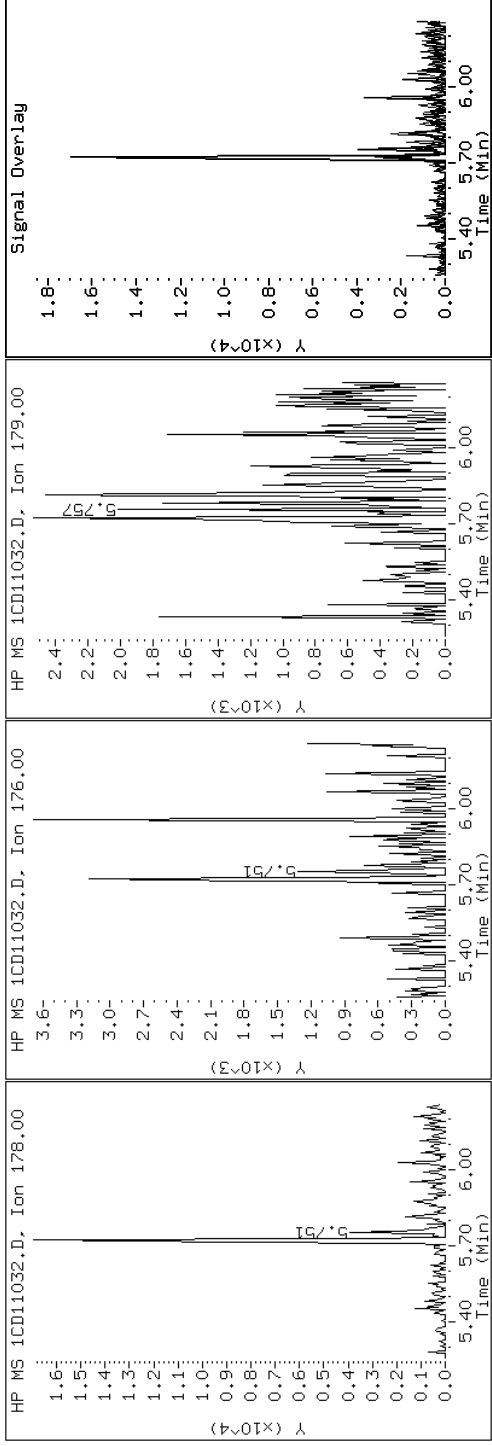
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

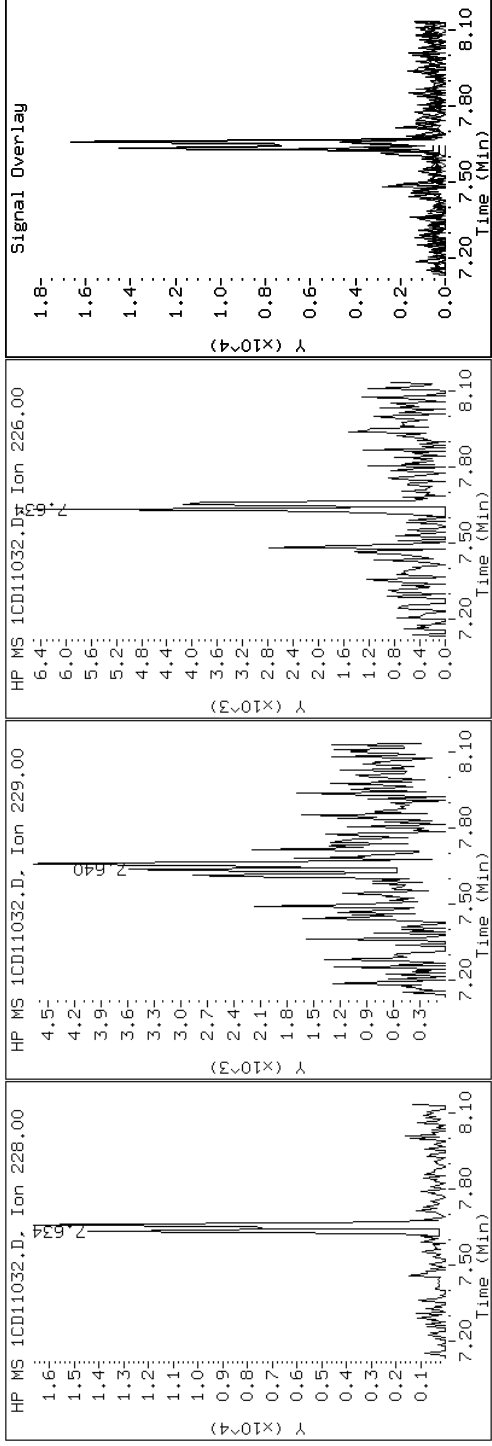
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

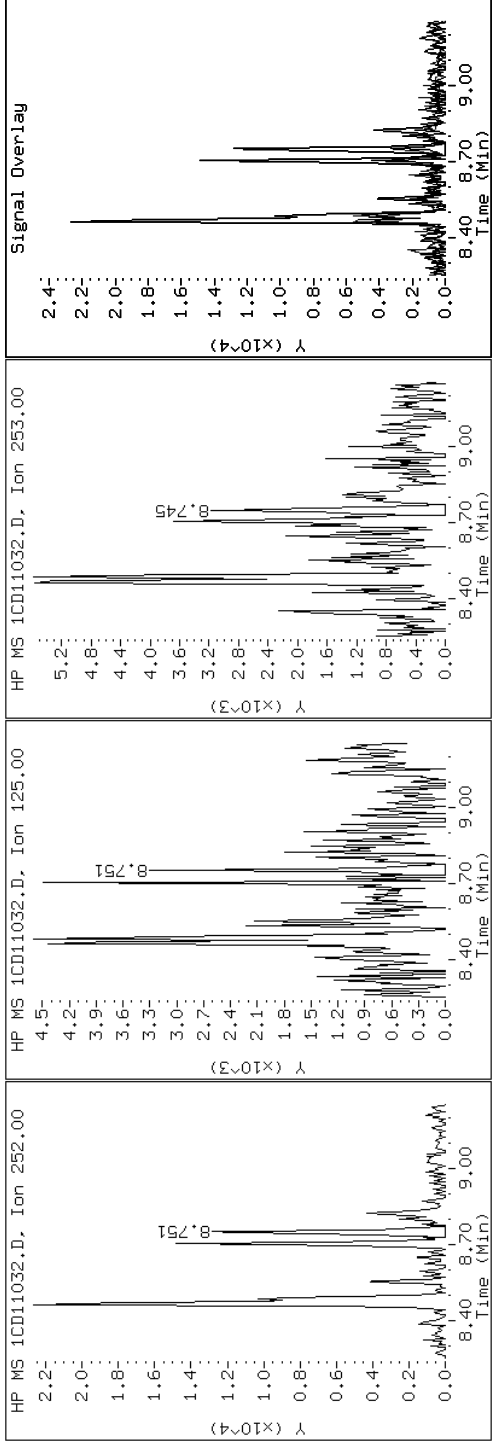
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

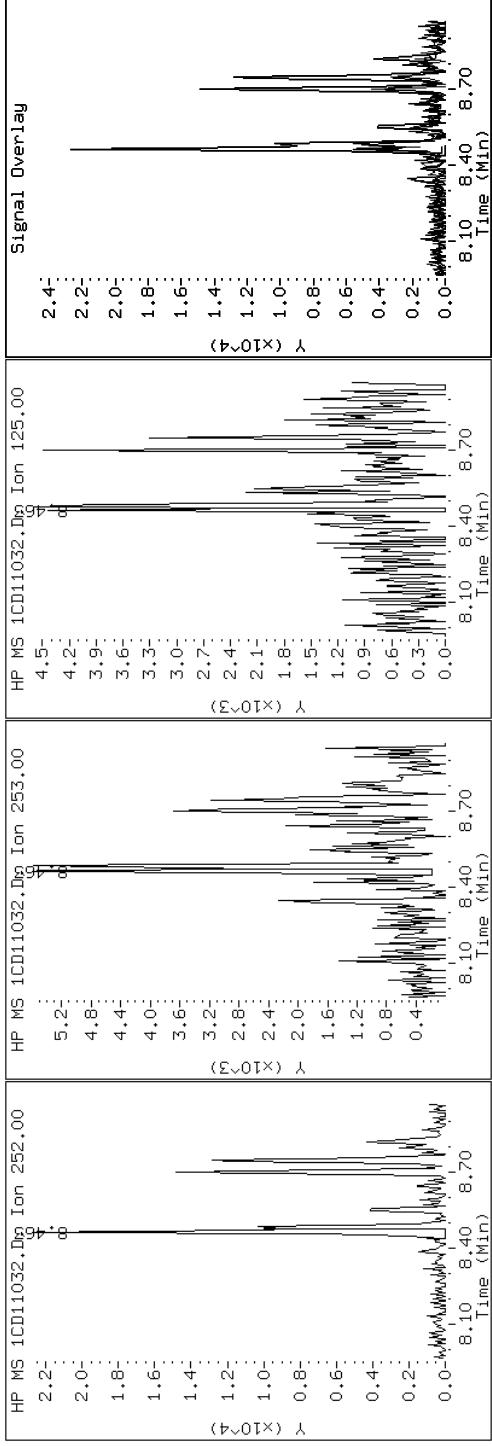
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

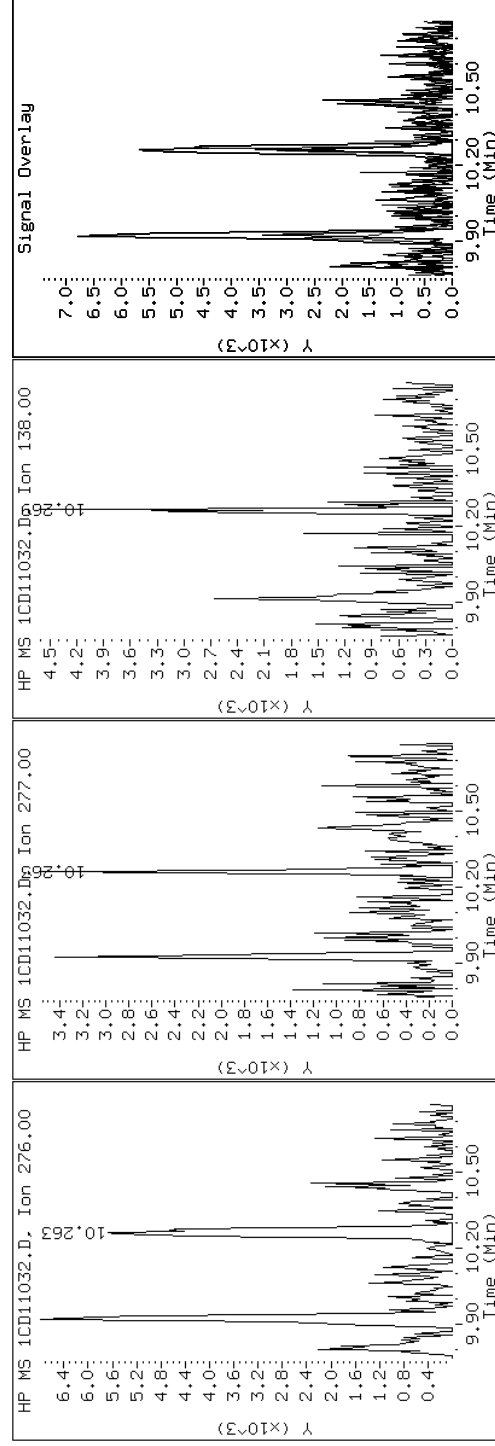
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

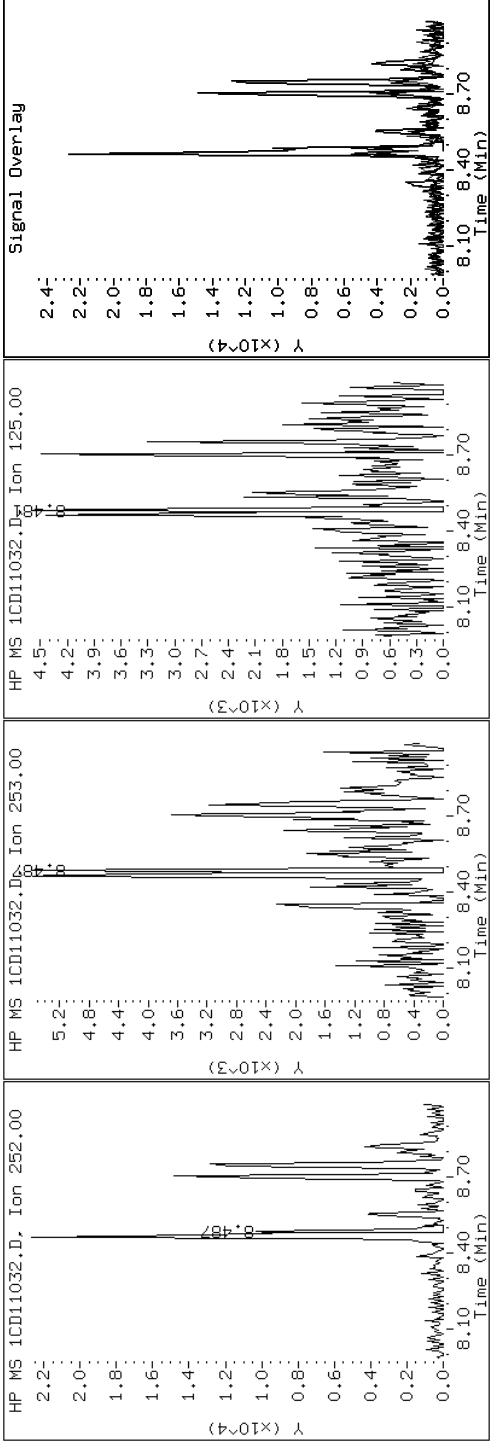
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

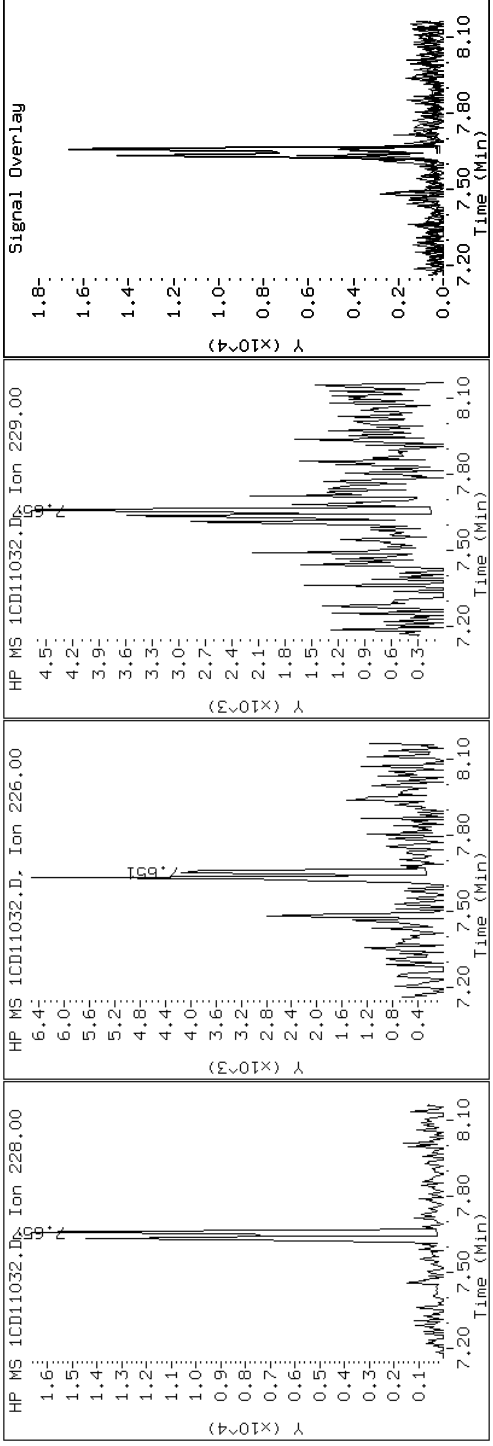
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

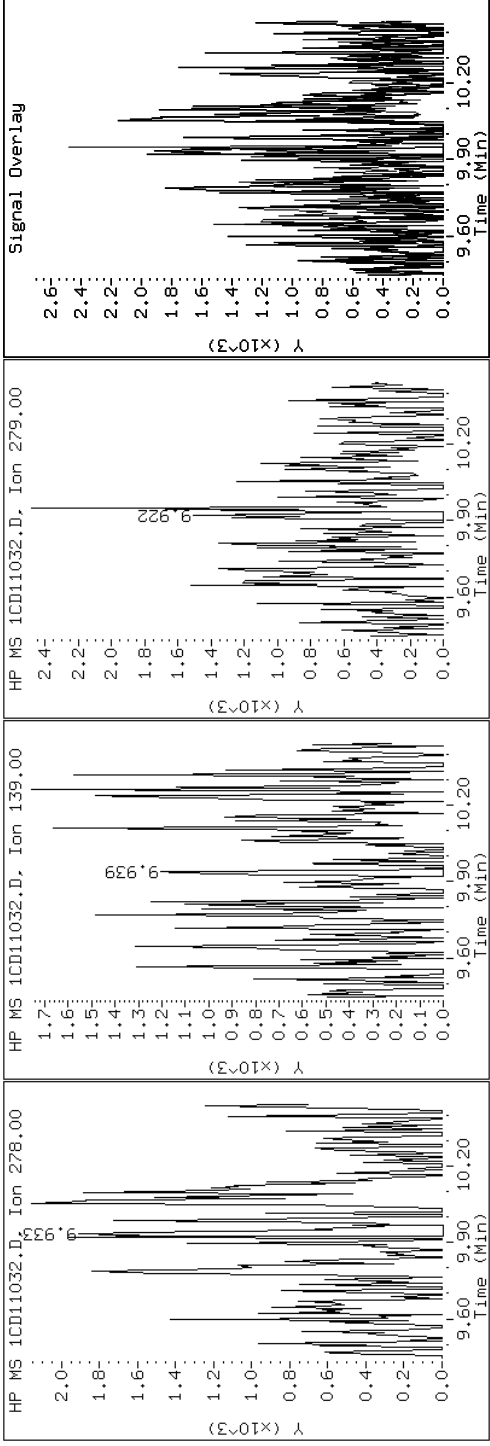
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

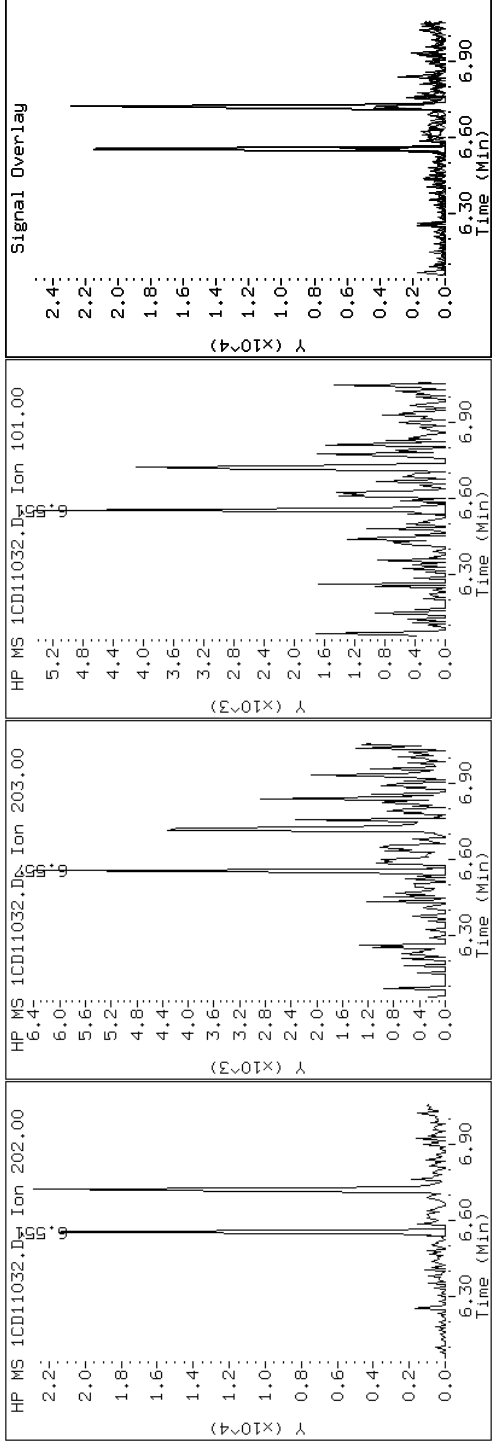
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

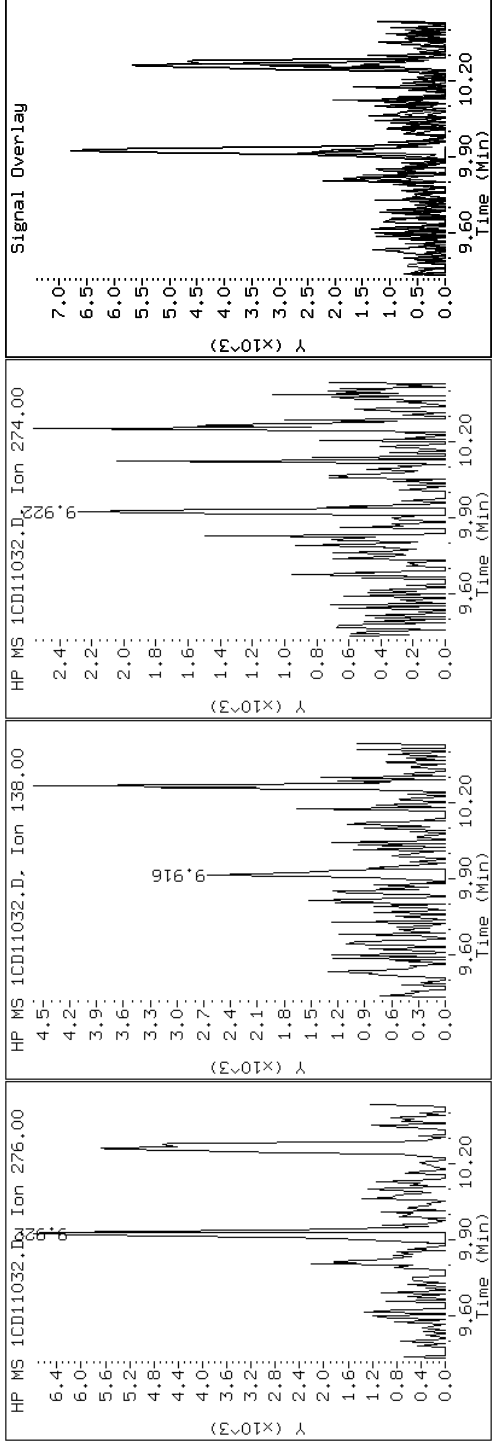
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

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



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

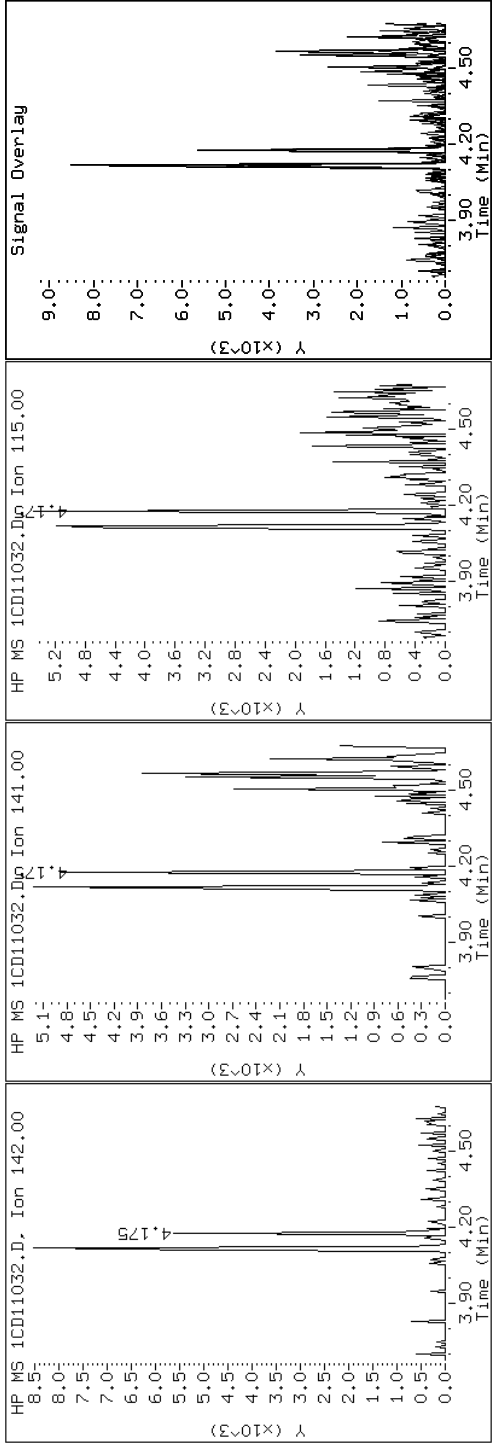
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

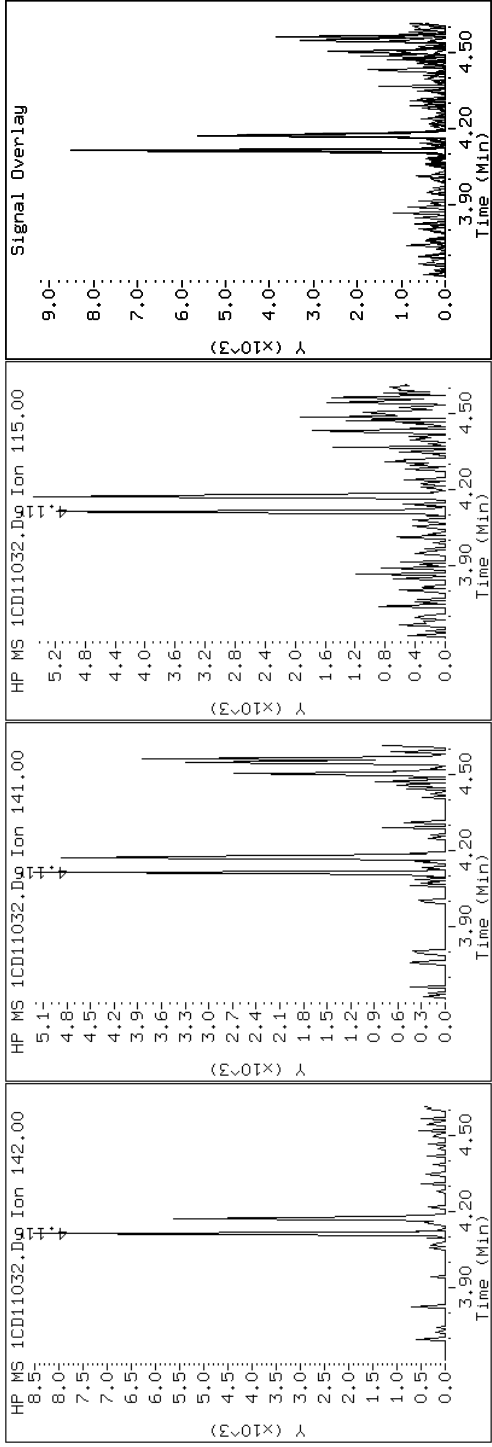
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

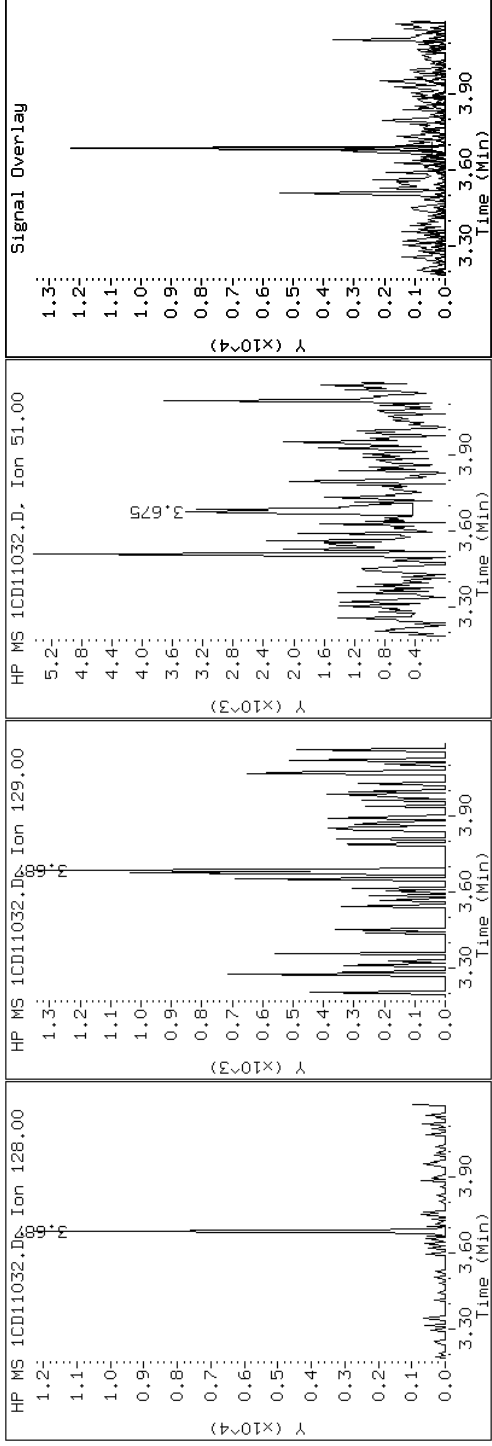
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

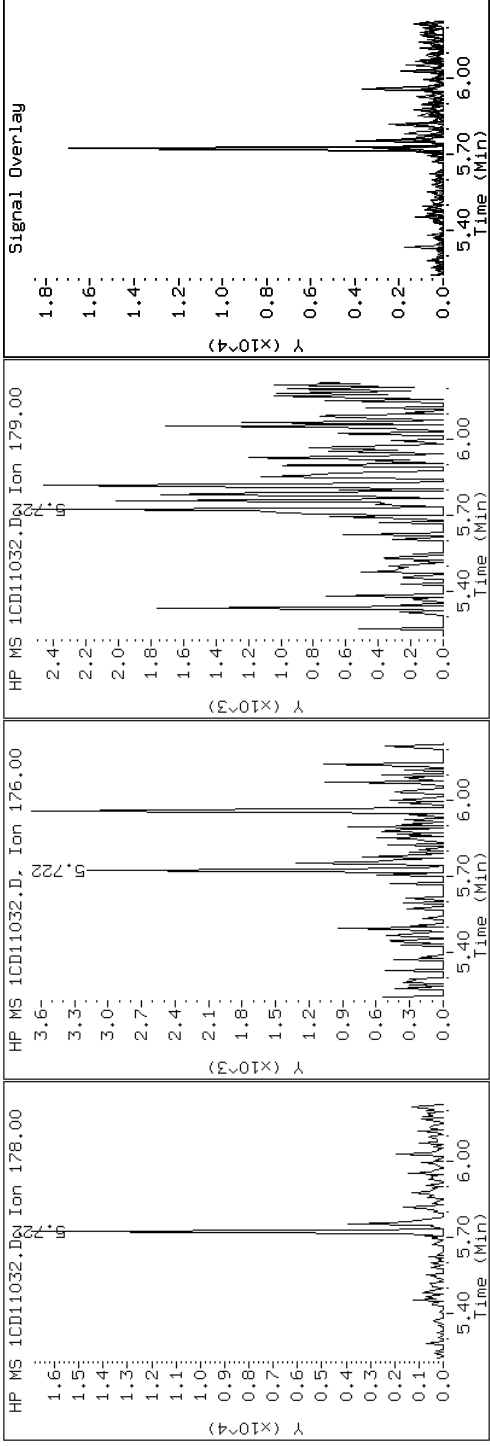
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11032.D

Date: 11-APR-2013 21:16

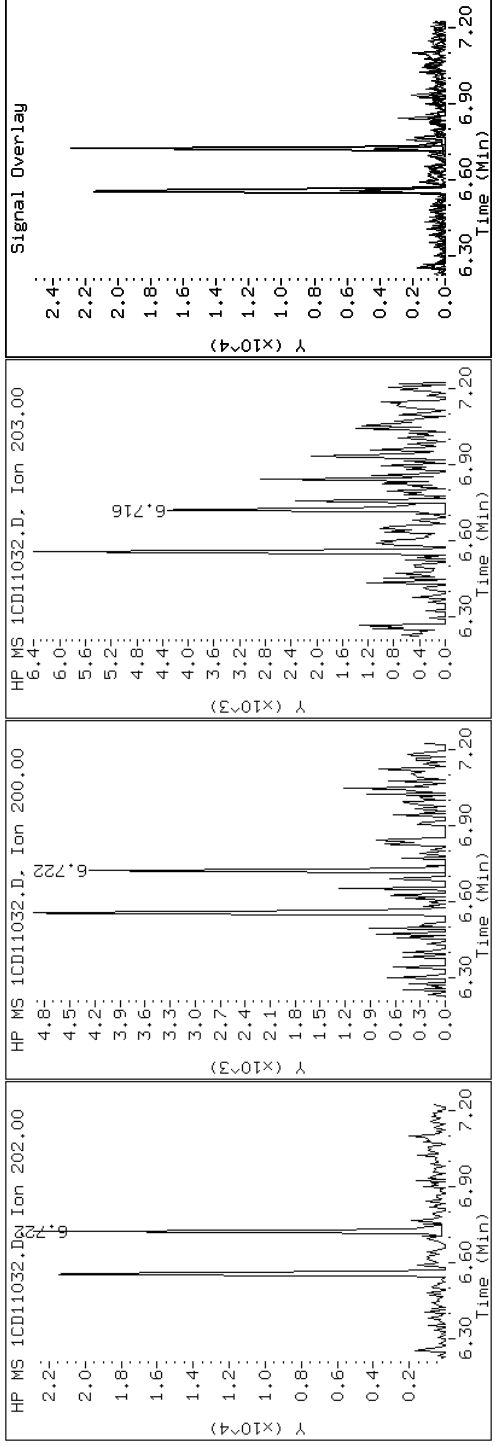
Client ID: CV0789A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-14-a

Operator: SCC

16 Pyrene

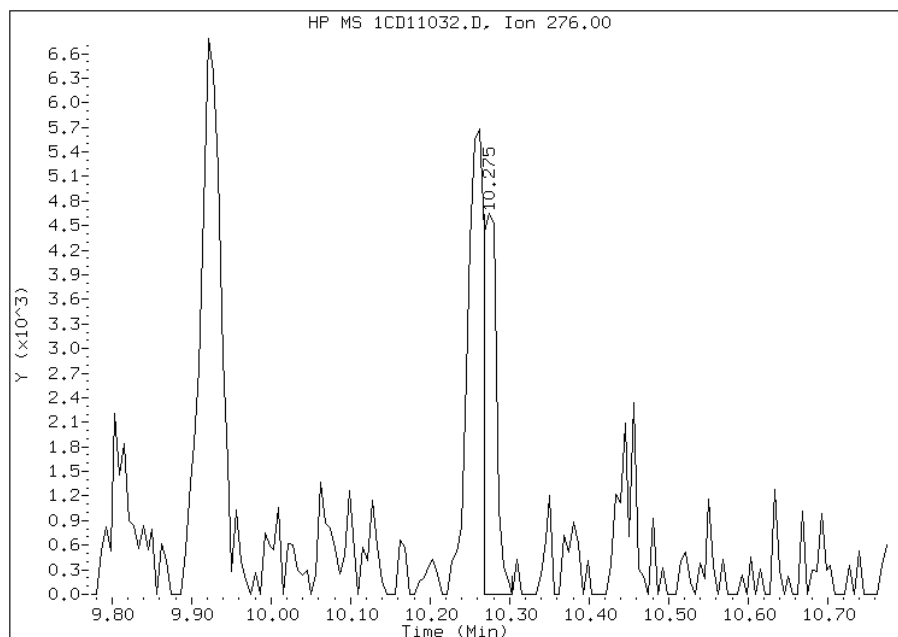


Manual Integration Report

Data File: 1CD11032.D
Inj. Date and Time: 11-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0789A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

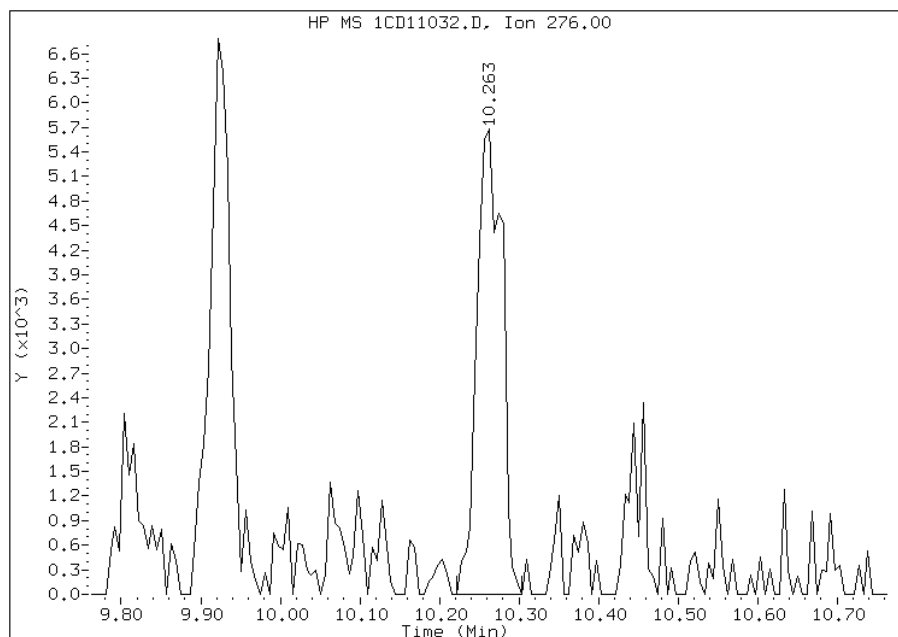
Processing Integration Results

RT: 10.27
Response: 5336
Amount: 0
Conc: 50



Manual Integration Results

RT: 10.26
Response: 12367
Amount: 1
Conc: 115



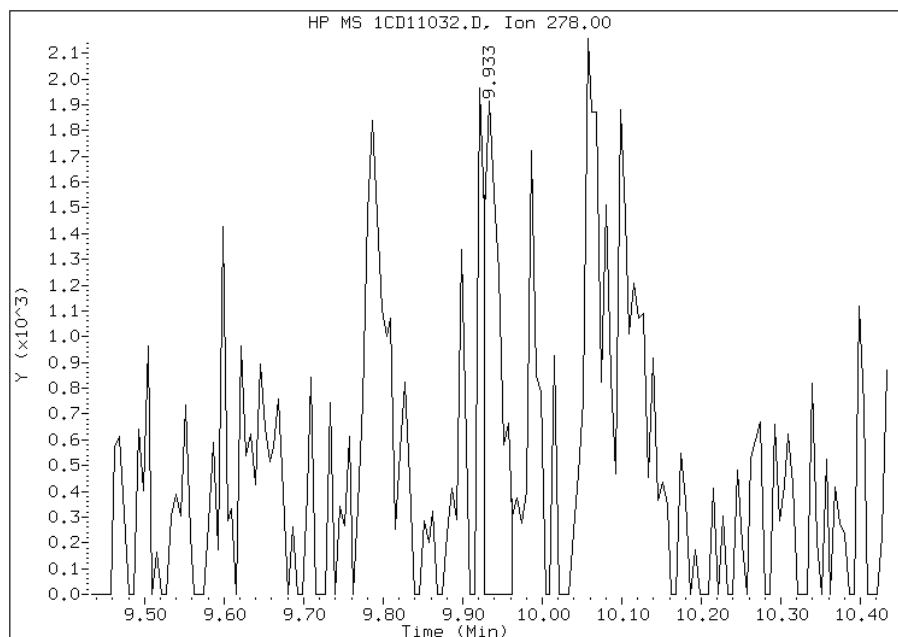
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11032.D
Inj. Date and Time: 11-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0789A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

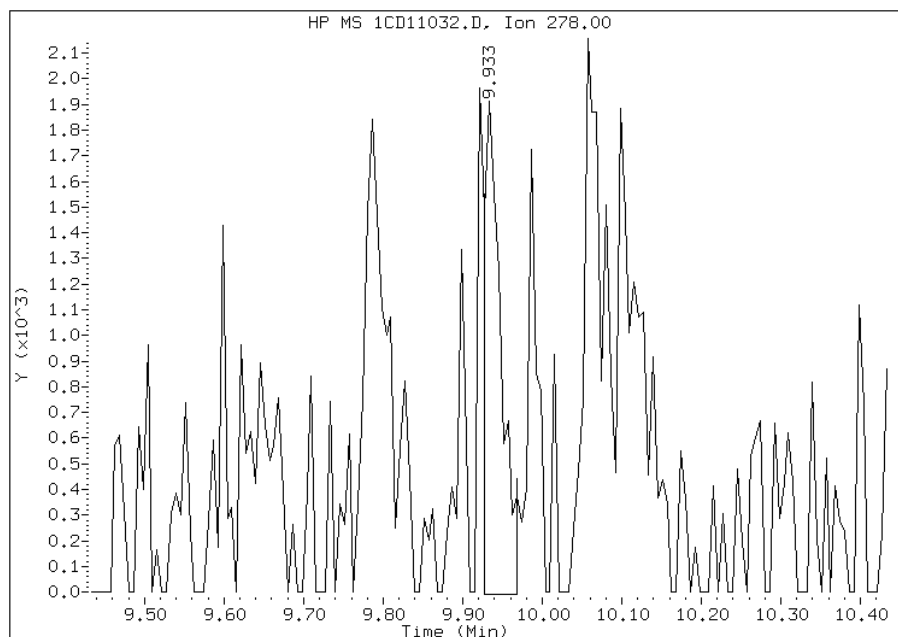
Processing Integration Results

RT: 9.93
Response: 2732
Amount: 1
Conc: 70



Manual Integration Results

RT: 9.93
Response: 2889
Amount: 1
Conc: 71



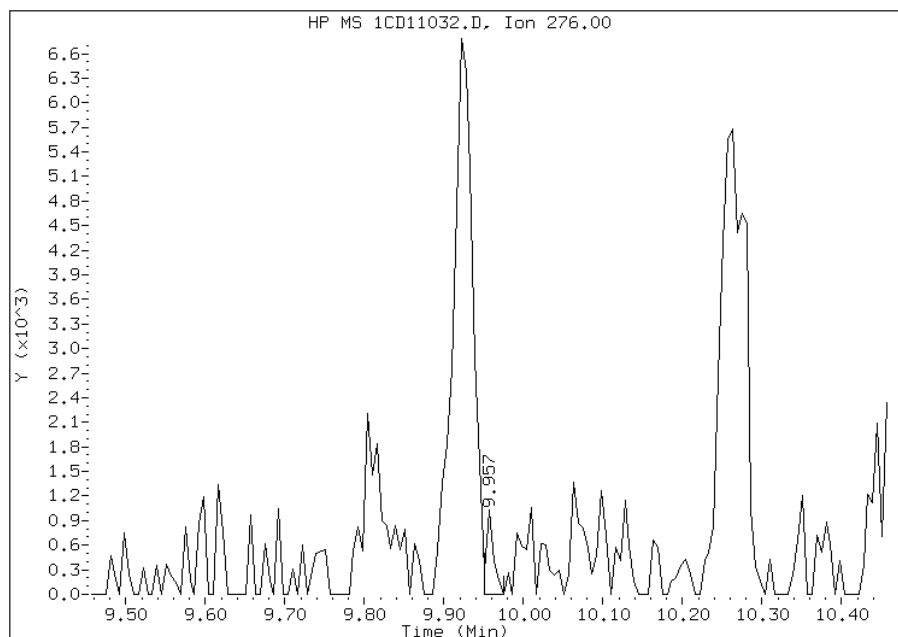
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11032.D
Inj. Date and Time: 11-APR-2013 21:16
Instrument ID: BSMC5973.i
Client ID: CV0789A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

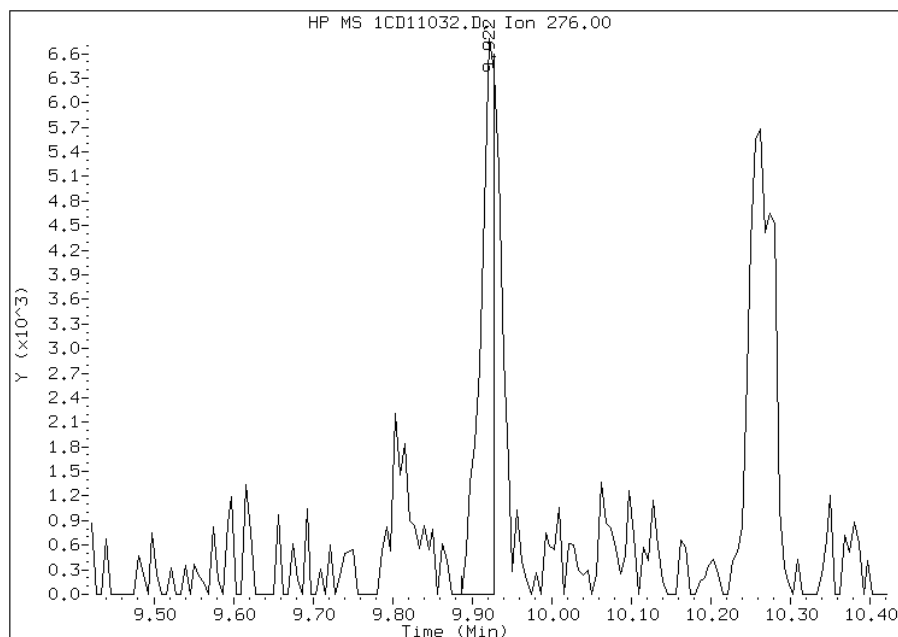
Processing Integration Results

RT: 9.96
Response: 668
Amount: 1
Conc: 71



Manual Integration Results

RT: 9.92
Response: 8592
Amount: 1
Conc: 141



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0789B-CS Lab Sample ID: 680-89038-15
 Matrix: Solid Lab File ID: 1CD11033.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:49
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.14 (g) Date Analyzed: 04/11/2013 21:34
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 32.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	12	J	59	7.3
120-12-7	Anthracene	23		12	6.2
56-55-3	Benzo[a]anthracene	79		12	5.7
50-32-8	Benzo[a]pyrene	46		15	7.6
205-99-2	Benzo[b]fluoranthene	80		18	8.9
191-24-2	Benzo[g,h,i]perylene	53		29	6.4
207-08-9	Benzo[k]fluoranthene	23		12	5.3
218-01-9	Chrysene	94		13	6.6
53-70-3	Dibenz(a,h)anthracene	29	U	29	6.0
206-44-0	Fluoranthene	83		29	5.9
86-73-7	Fluorene	8.7	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	92		29	10
90-12-0	1-Methylnaphthalene	250		59	6.4
91-57-6	2-Methylnaphthalene	230		59	10
91-20-3	Naphthalene	130		59	6.4
85-01-8	Phenanthrene	200		12	5.7
129-00-0	Pyrene	88		29	5.4

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\1C041113.b\1CD11033.D
 Lab Smp Id: 680-89038-A-15-A Client Smp ID: CV0789B-CS
 Inj Date : 11-APR-2013 21:34
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-15-a
 Misc Info : 680-89038-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	32.369	% 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		3.674	3.675	(1.000)	324893	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	216314	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	400711	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	39762	6.68187	652.5683	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	432051	40.0000		
* 23 Perylene-d12	264		8.798	8.798	(1.000)	424572	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	12028	1.36956	133.7548	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	12464	2.39475	233.8774	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	14541	2.59205	253.1462	
5 Acenaphthylene	152		4.674	4.675	(0.981)	1170	0.12765	12.4661(Q)	
9 Fluorene	166		5.110	5.104	(1.073)	629	0.08948	8.7388(Q)	
11 Phenanthrene	178		5.721	5.722	(1.003)	23654	2.01654	196.9398	
12 Anthracene	178		5.757	5.757	(1.009)	2729	0.23459	22.9106	
13 Carbazole	167		5.863	5.863	(1.028)	2409	0.22235	21.7148	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.557	6.557	(1.150)	11101	0.85398	83.4016
16 Pyrene	202	6.721	6.722	(0.880)	11086	0.90193	88.0848
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	9930	0.81276	79.3766
19 Chrysene	228	7.657	7.663	(1.002)	11609	0.96052	93.8063
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963)	8817	0.82220	80.2985
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	2796	0.23042	22.5034
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	5265	0.47497	46.3870
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	3280	0.93726	91.5346
26 Benzo(g,h,i)perylene	276	10.262	10.269	(1.166)	5689	0.54755	53.4753(M)

QC Flag Legend

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

Data File: 1CD11033.D

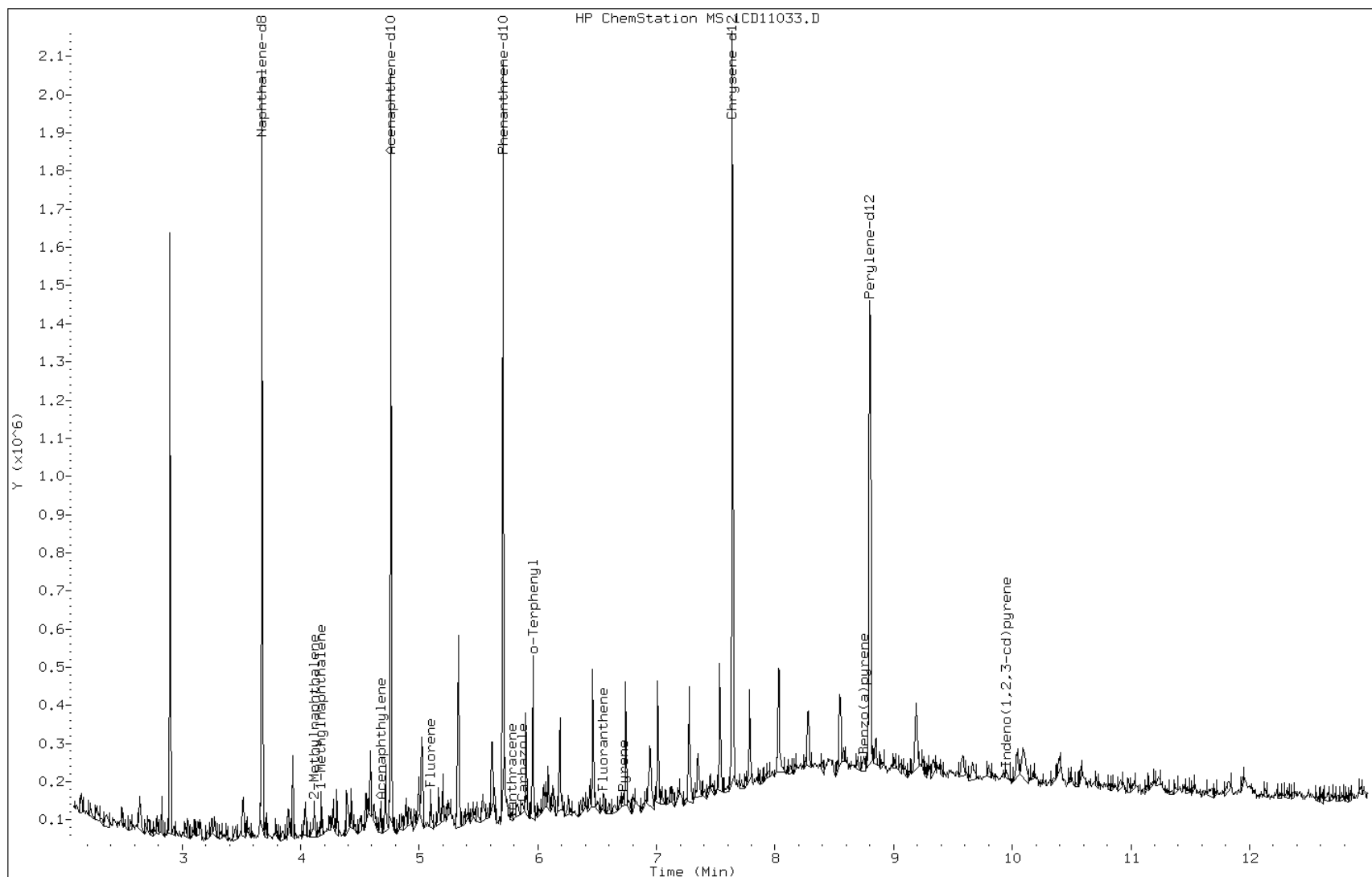
Date: 11-APR-2013 21:34

Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

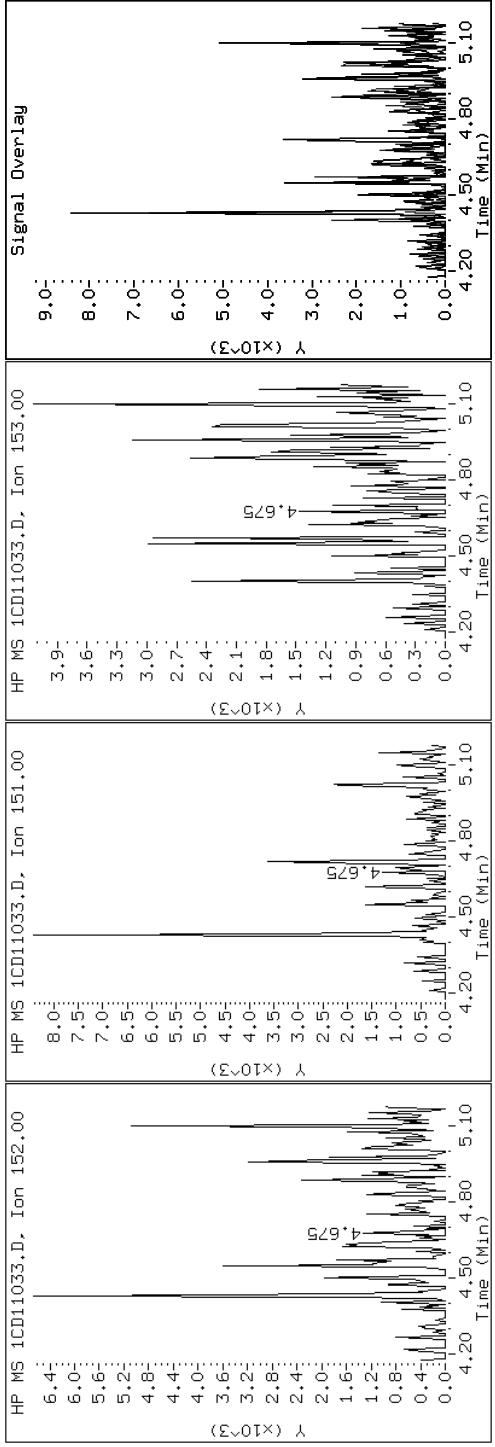
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

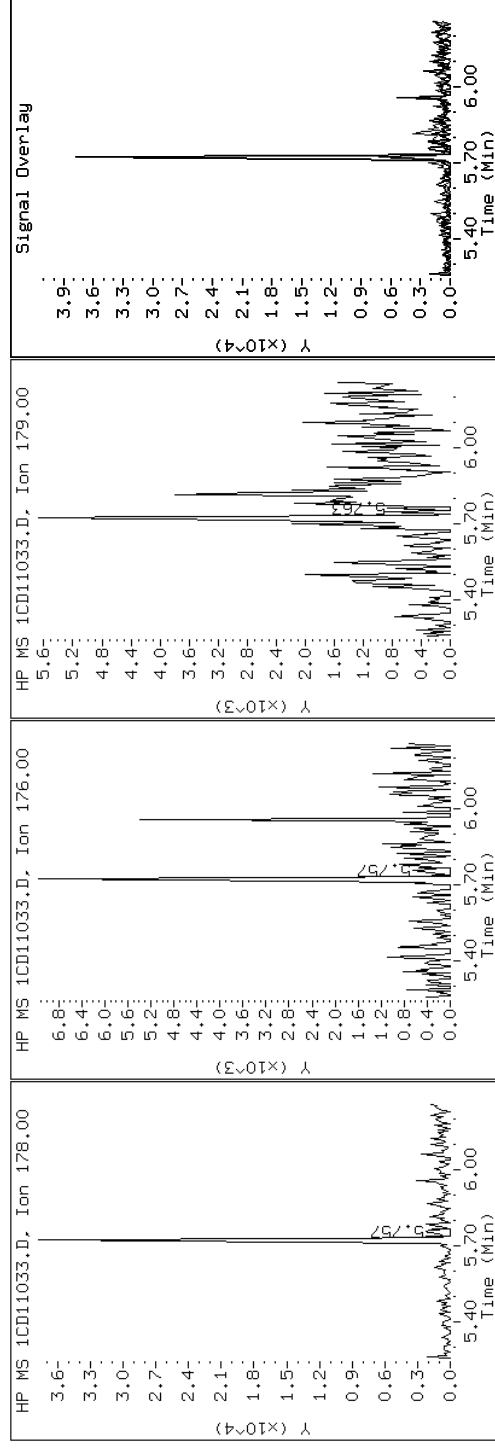
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

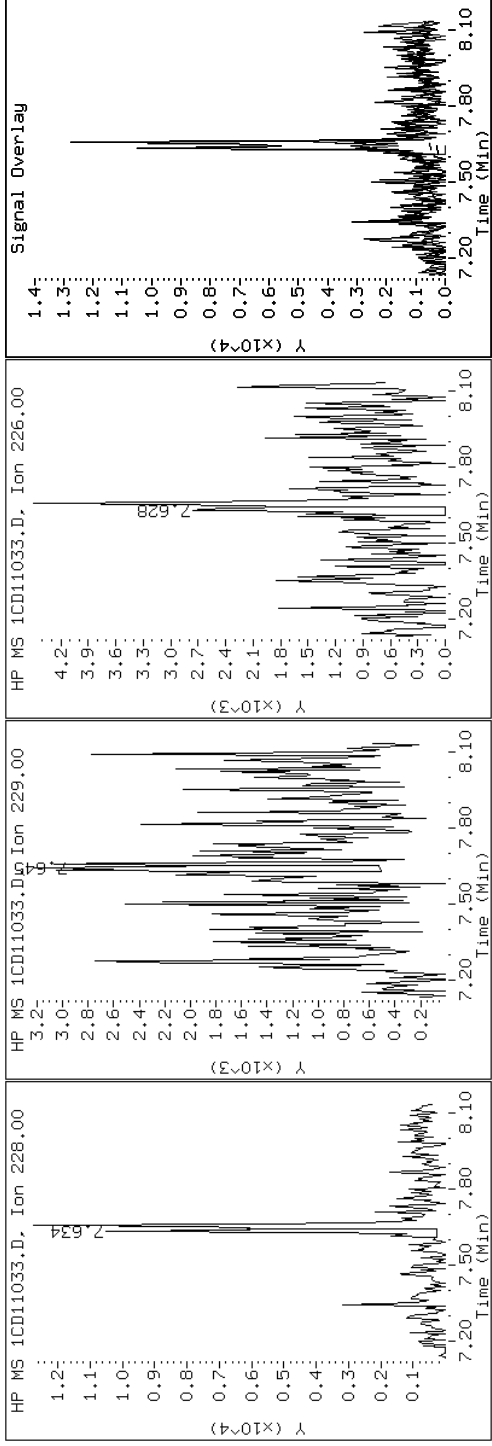
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

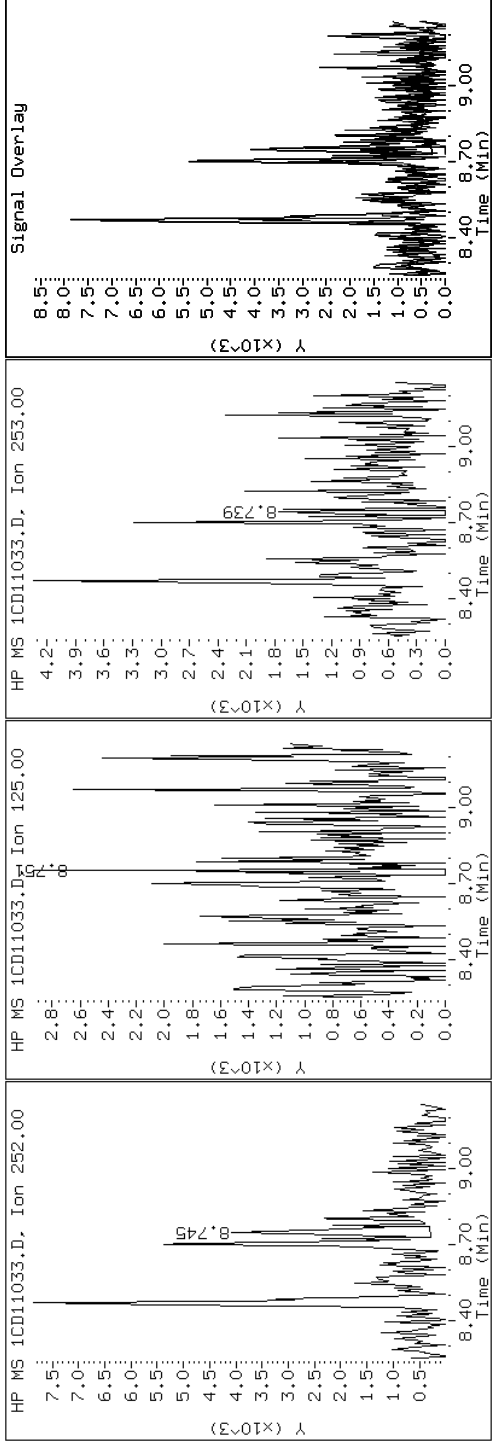
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

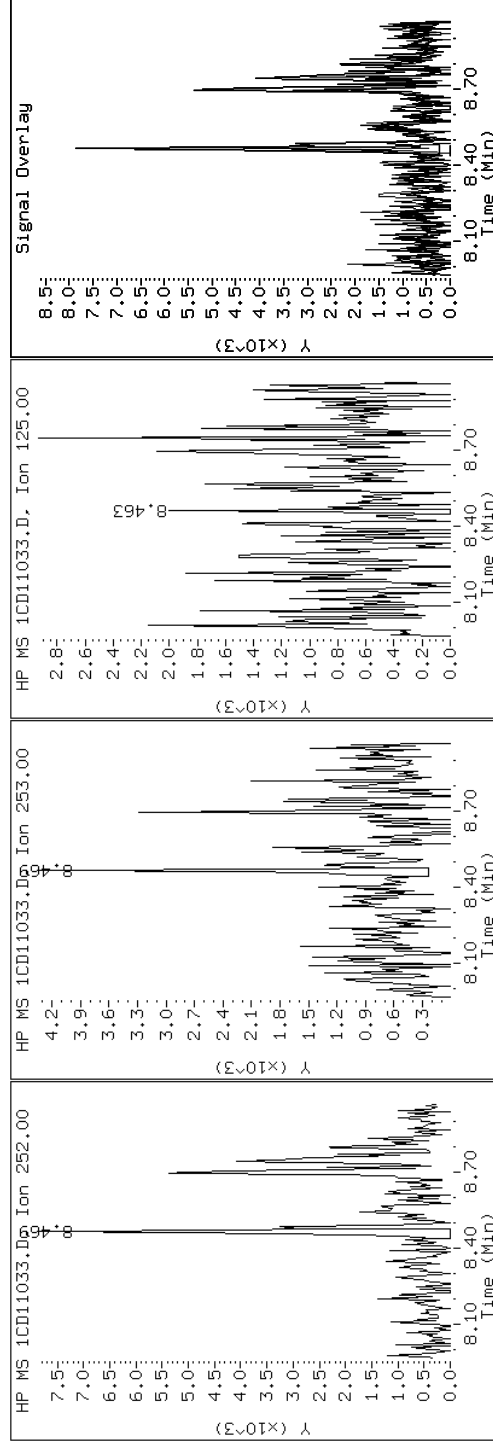
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

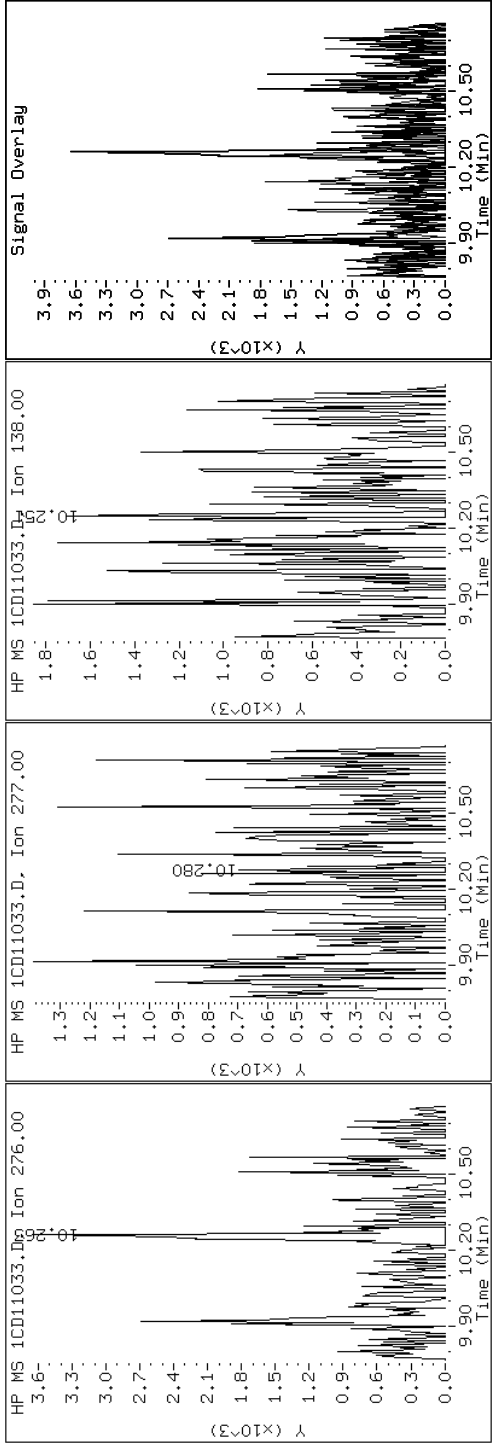
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

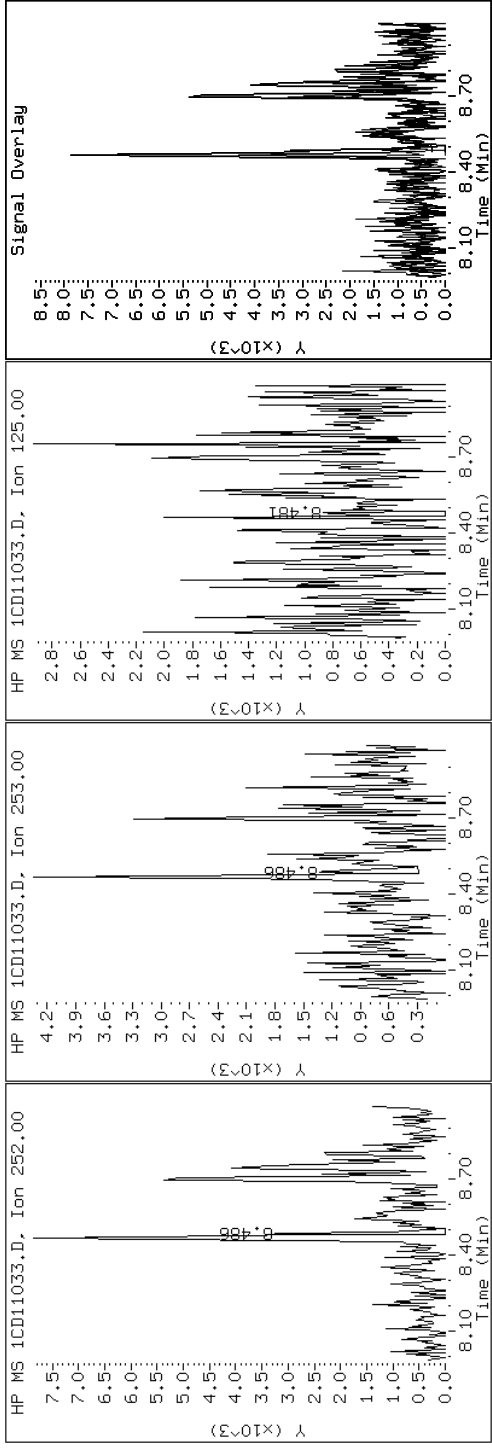
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

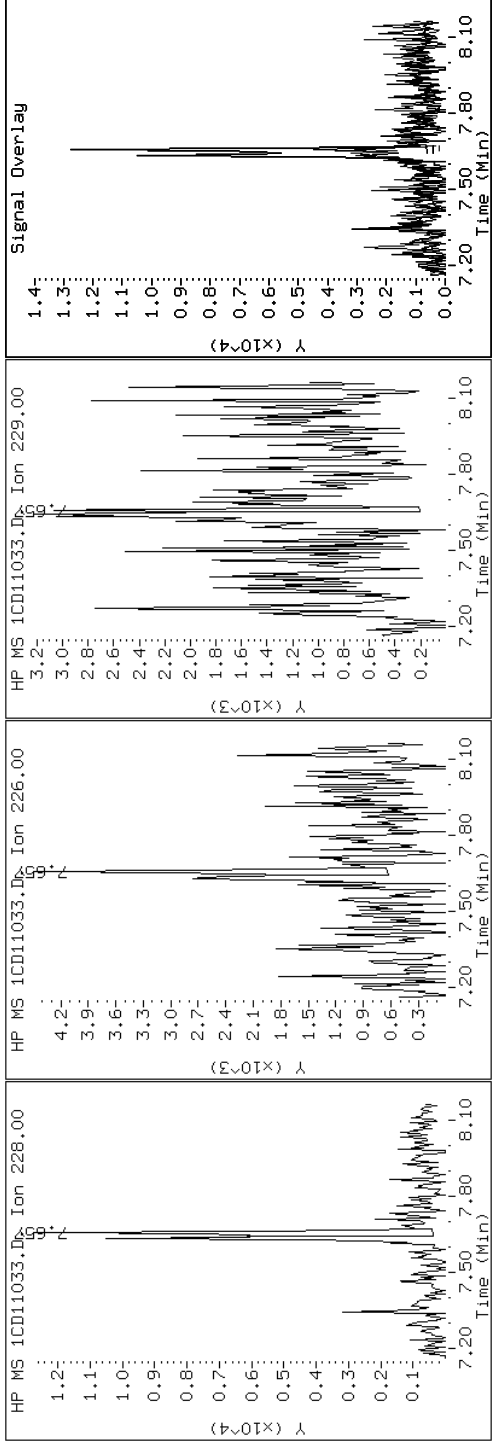
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

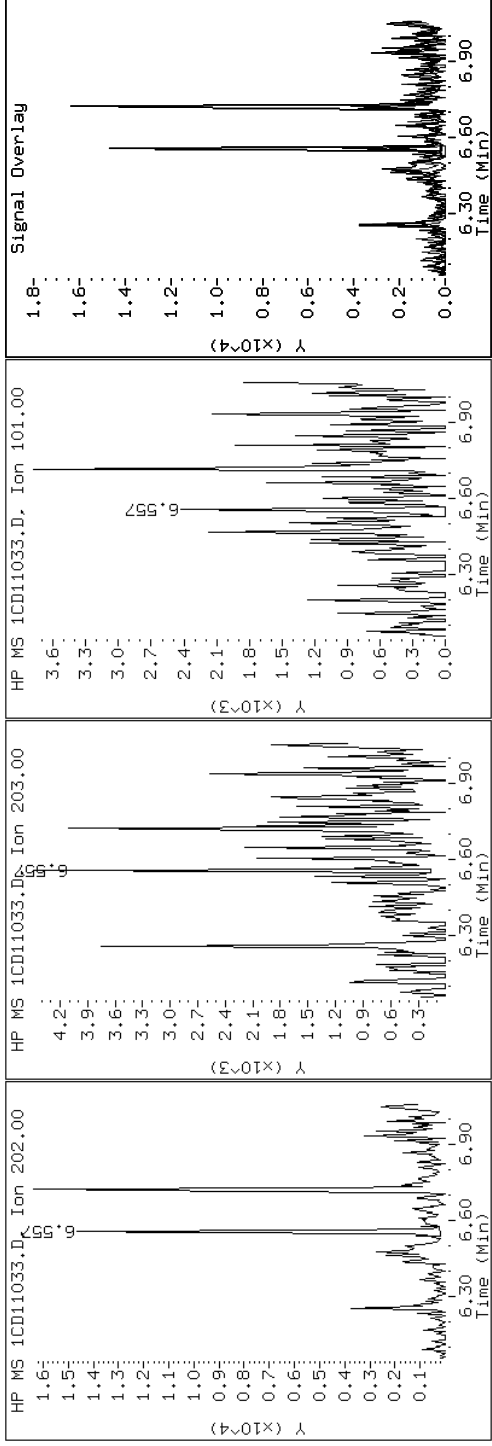
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

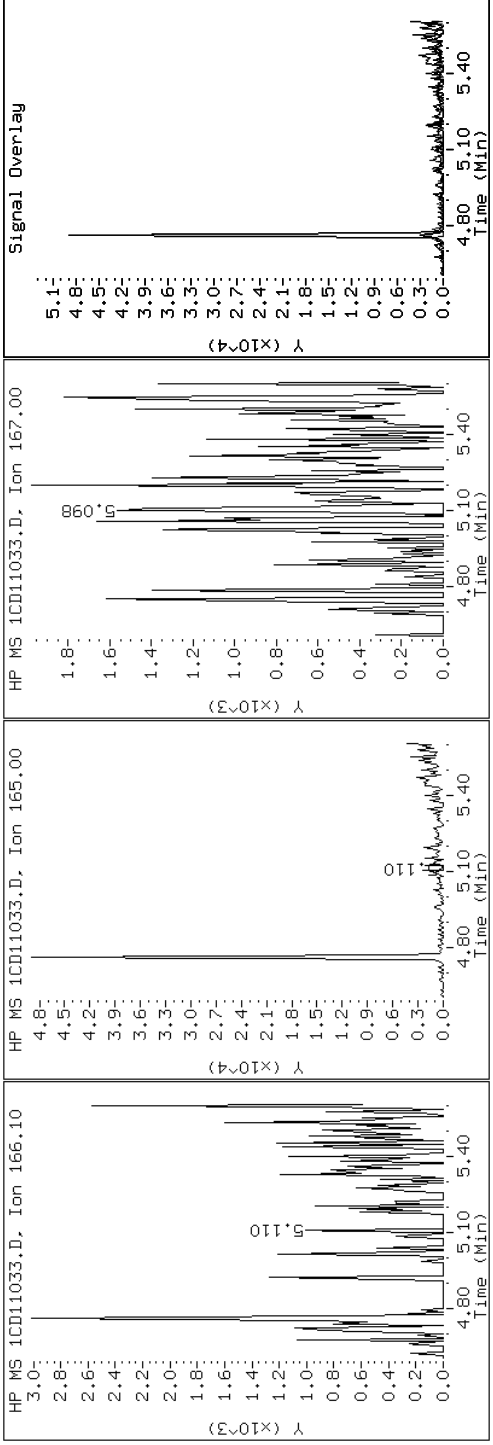
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

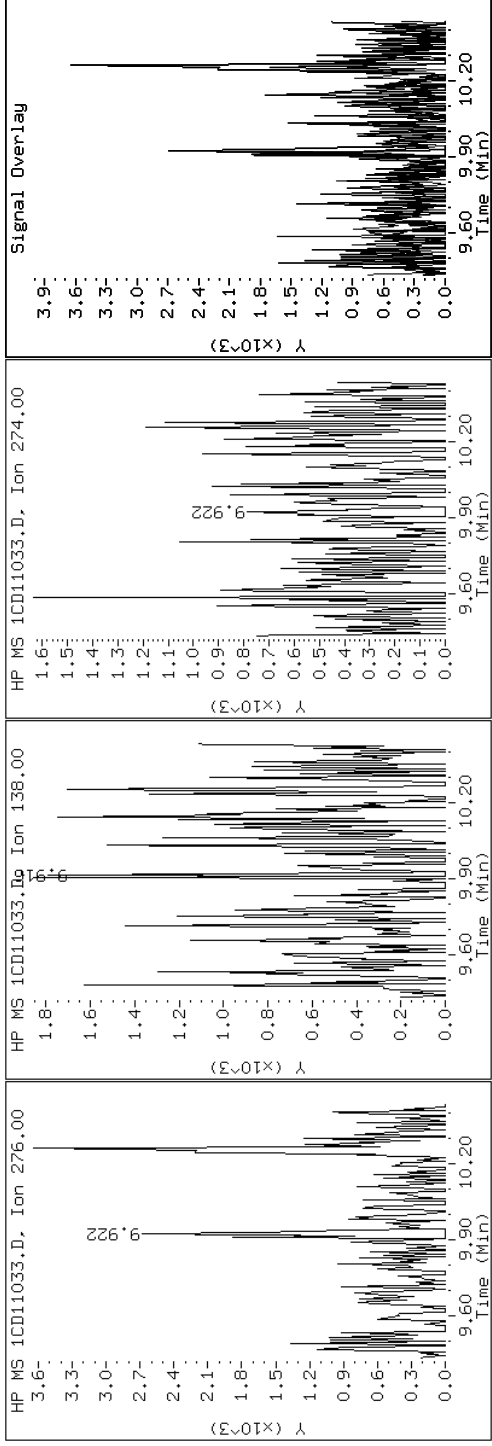
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

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



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

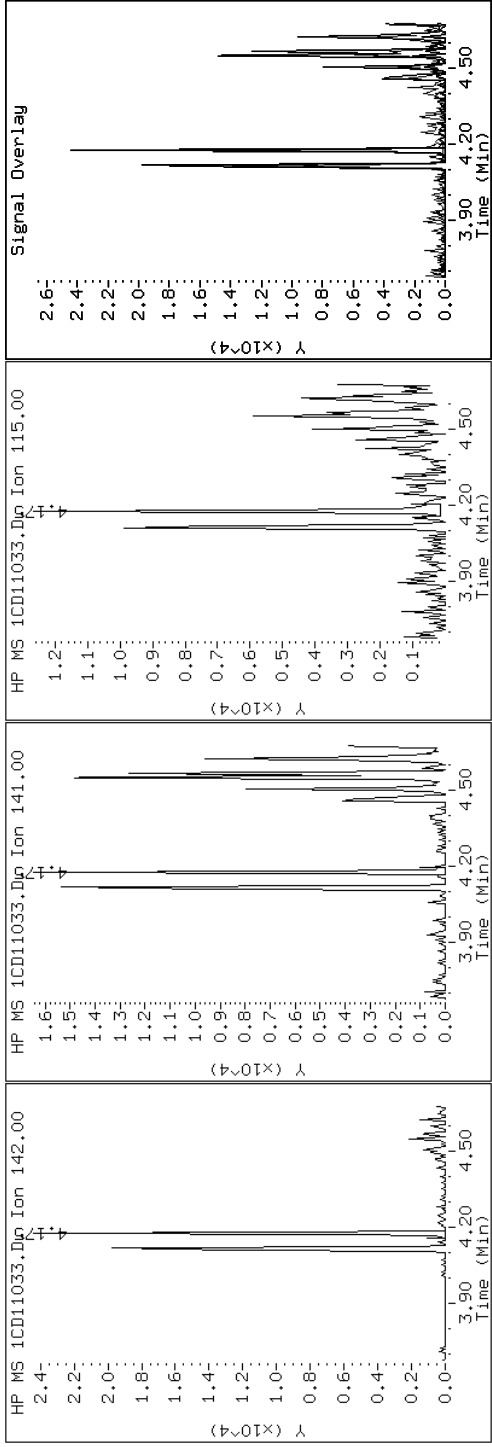
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

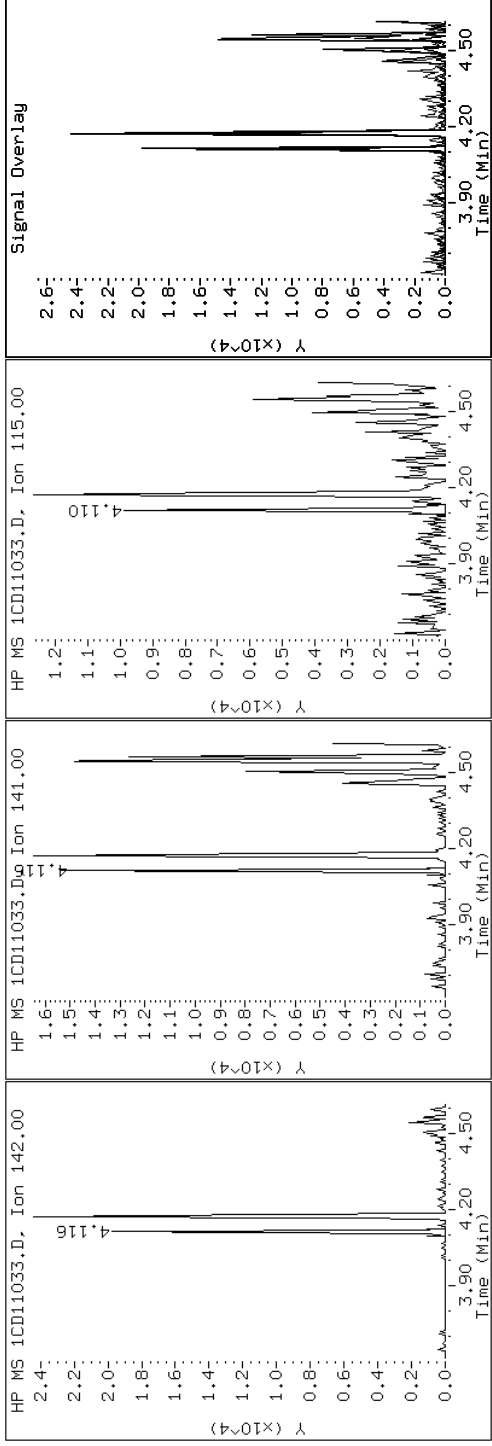
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

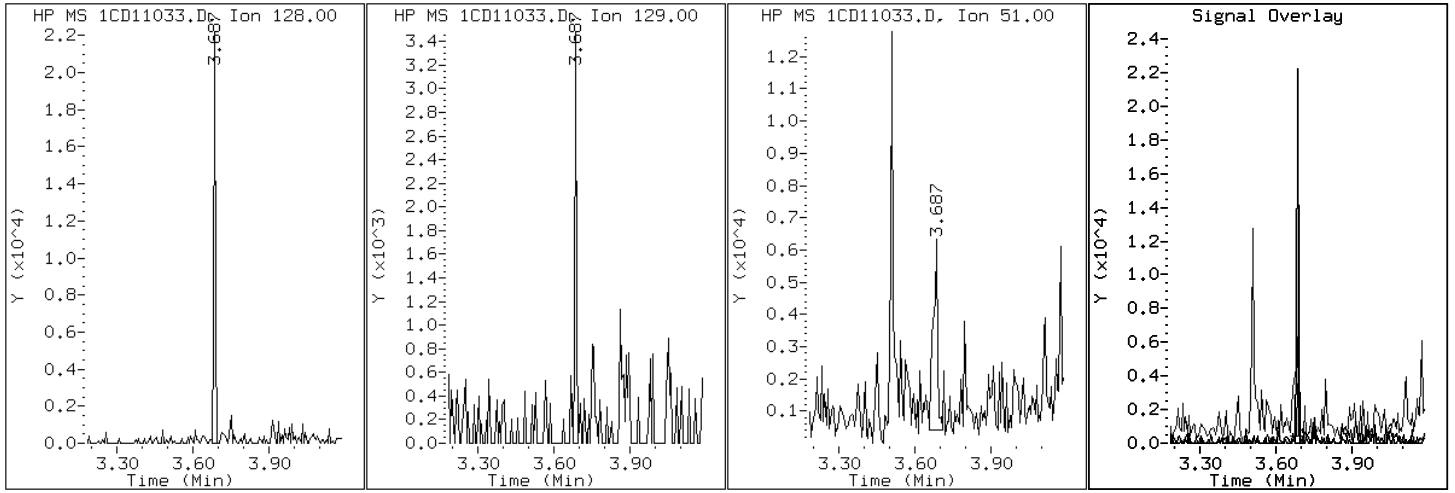
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

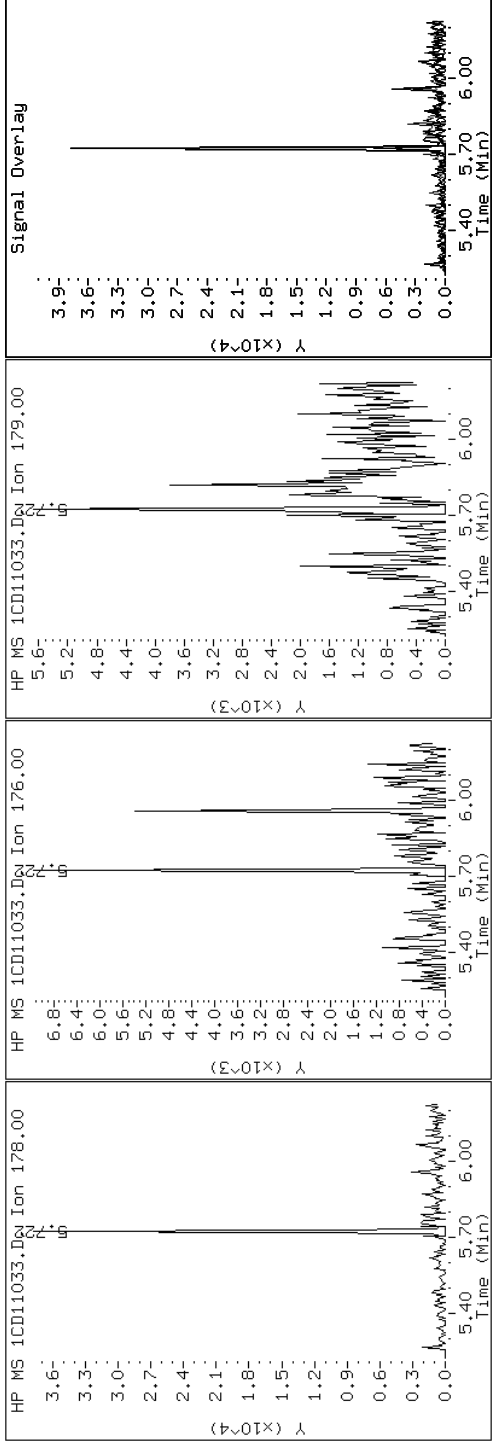
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11033.D

Date: 11-APR-2013 21:34

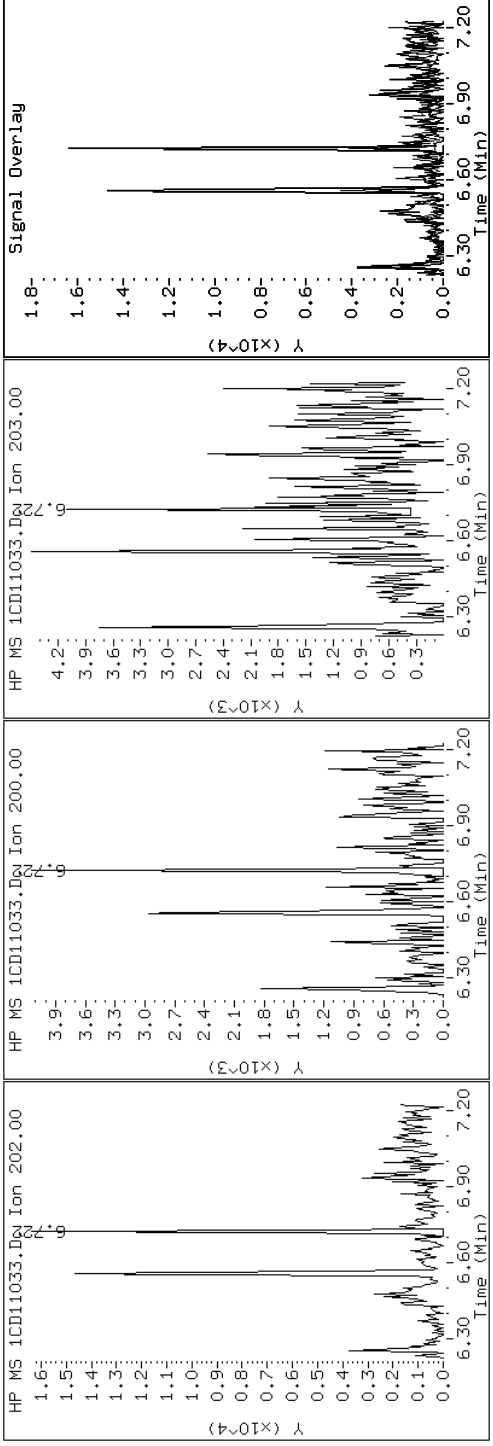
Client ID: CV0789B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-15-a

Operator: SCC

16 Pyrene

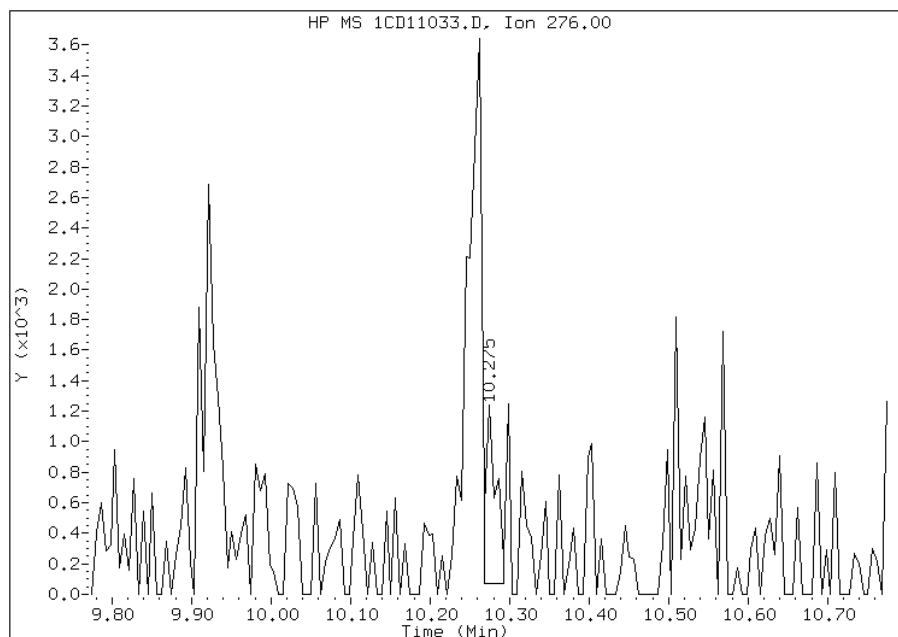


Manual Integration Report

Data File: 1CD11033.D
Inj. Date and Time: 11-APR-2013 21:34
Instrument ID: BSMC5973.i
Client ID: CV0789B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/12/2013

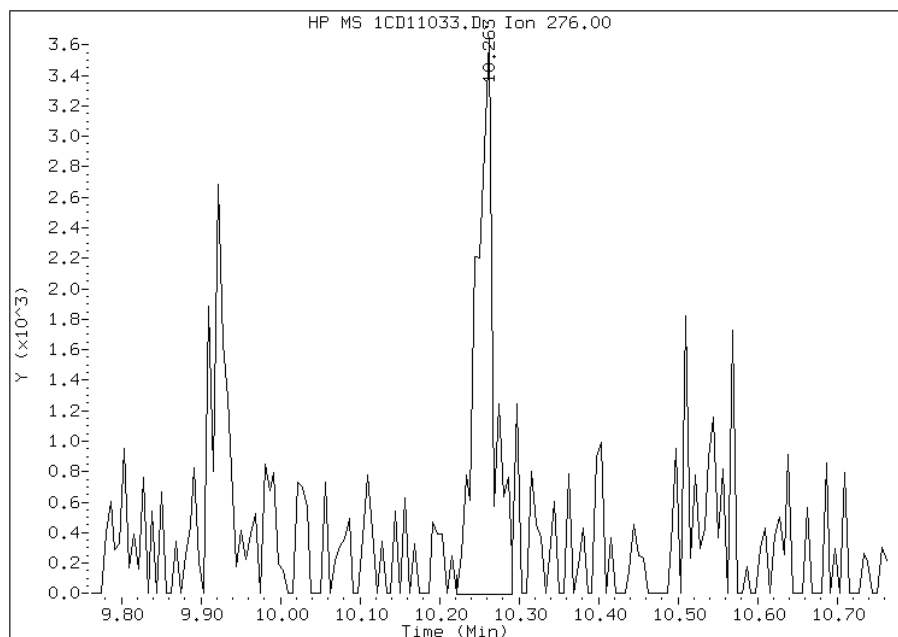
Processing Integration Results

RT: 10.27
Response: 1085
Amount: 0
Conc: 10



Manual Integration Results

RT: 10.26
Response: 5689
Amount: 1
Conc: 53



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:28
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0818A-CS Lab Sample ID: 680-89038-16
 Matrix: Solid Lab File ID: 1CD11034.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:00
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.34(g) Date Analyzed: 04/11/2013 21:53
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	49	J	66	8.2
120-12-7	Anthracene	62		14	6.9
56-55-3	Benzo[a]anthracene	210		13	6.4
50-32-8	Benzo[a]pyrene	220		17	8.6
205-99-2	Benzo[b]fluoranthene	330		20	10
191-24-2	Benzo[g,h,i]perylene	150		33	7.2
207-08-9	Benzo[k]fluoranthene	110		13	5.9
218-01-9	Chrysene	240		15	7.4
53-70-3	Dibenz(a,h)anthracene	99		33	6.8
206-44-0	Fluoranthene	400		33	6.6
86-73-7	Fluorene	24	J	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	180		33	12
90-12-0	1-Methylnaphthalene	53	J	66	7.2
91-57-6	2-Methylnaphthalene	110		66	12
91-20-3	Naphthalene	88		66	7.2
85-01-8	Phenanthrene	200		13	6.4
129-00-0	Pyrene	380		33	6.1

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\1C041113.b\1CD11034.D
 Lab Smp Id: 680-89038-A-16-A Client Smp ID: CV0818A-CS
 Inj Date : 11-APR-2013 21:53
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-16-a
 Misc Info : 680-89038-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 34
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.340	Weight Extracted
M	40.618	% 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		3.674	3.675	(1.000)	317740	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	216648	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	391436	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	40224	6.89513	756.9430
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	434802	40.0000	
* 23 Perylene-d12	264		8.798	8.798	(1.000)	422852	40.0000	
2 Naphthalene	128		3.686	3.687	(1.003)	6918	0.80545	88.4215(Q)
3 2-Methylnaphthalene	142		4.110	4.115	(1.118)	4351	1.03016	113.0907
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	2667	0.48612	53.3656
5 Acenaphthylene	152		4.674	4.675	(0.981)	4118	0.44858	49.2442
9 Fluorene	166		5.098	5.104	(1.070)	1543	0.21917	24.0598
11 Phenanthrene	178		5.721	5.722	(1.003)	20803	1.81619	199.3806
12 Anthracene	178		5.757	5.757	(1.009)	6425	0.56539	62.0682
13 Carbazole	167		5.862	5.863	(1.028)	3206	0.30292	33.2542

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.557	6.557	(1.150)	45699	3.59884	395.0779
16 Pyrene	202		6.721	6.722	(0.880)	43042	3.47964	381.9928
17 Benzo(a)anthracene	228		7.633	7.634	(0.999)	23161	1.88372	206.7935
19 Chrysene	228		7.656	7.663	(1.002)	26803	2.20362	241.9119
20 Benzo(b)fluoranthene	252		8.462	8.468	(0.962)	31974	2.99377	328.6545
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.965)	12353	1.02216	112.2121
22 Benzo(a)pyrene	252		8.745	8.751	(0.994)	22459	2.03434	223.3289
24 Indeno(1,2,3-cd)pyrene	276		9.921	9.933	(1.128)	11235	1.66376	182.6460(M)
25 Dibenzo(a,h)anthracene	278		9.933	9.945	(1.129)	4918	0.90122	98.9351(M)
26 Benzo(g,h,i)perylene	276		10.256	10.269	(1.166)	14466	1.39798	153.4696

QC Flag Legend

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

Data File: 1CD11034.D

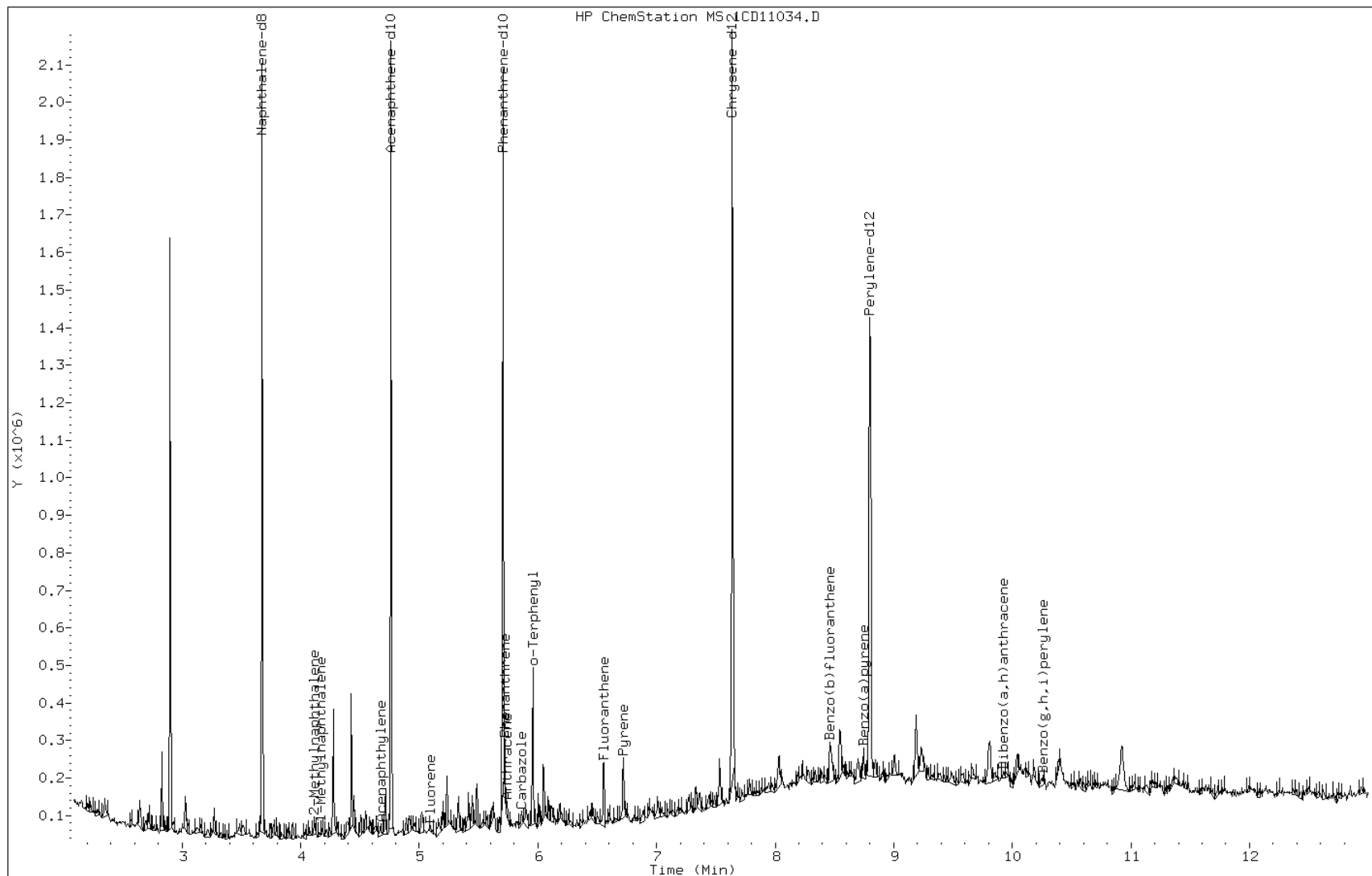
Date: 11-APR-2013 21:53

Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

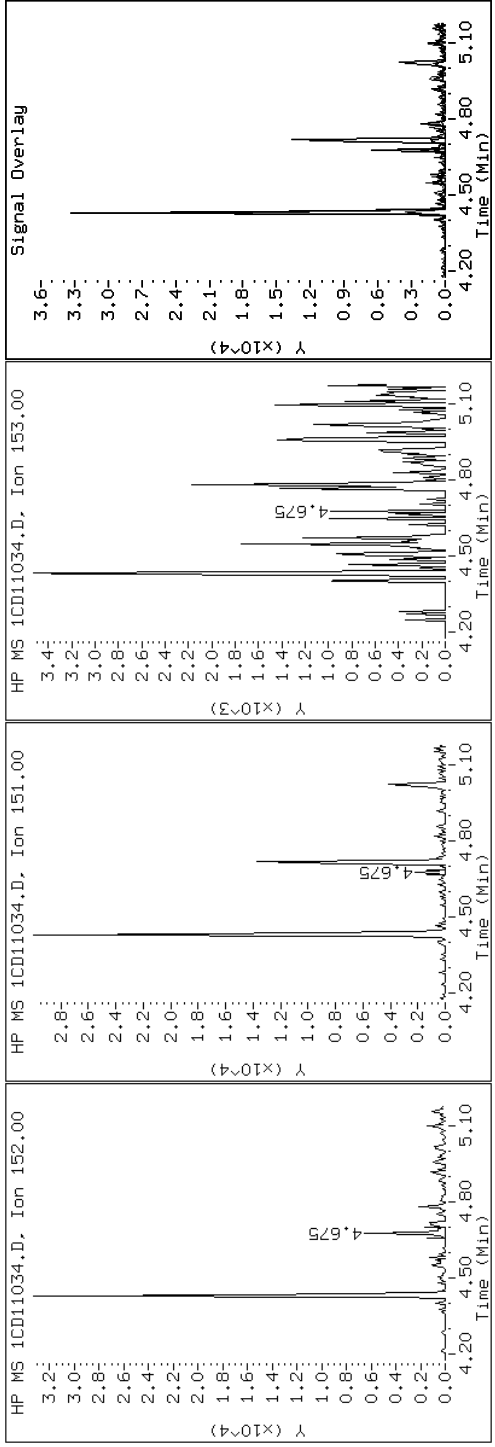
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

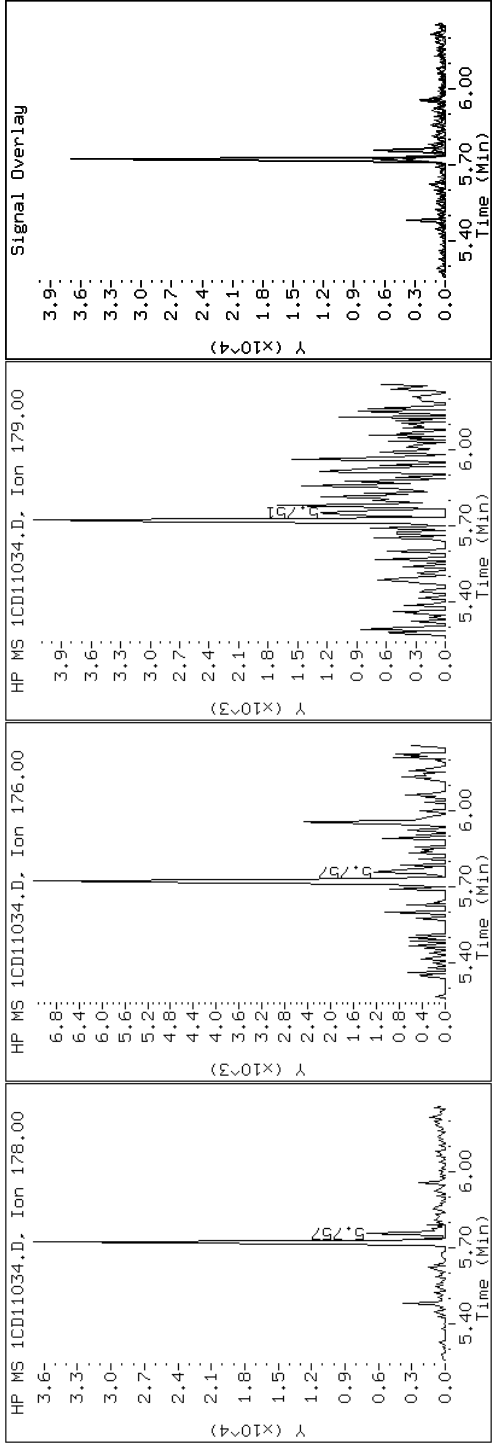
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

12 Anthracene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

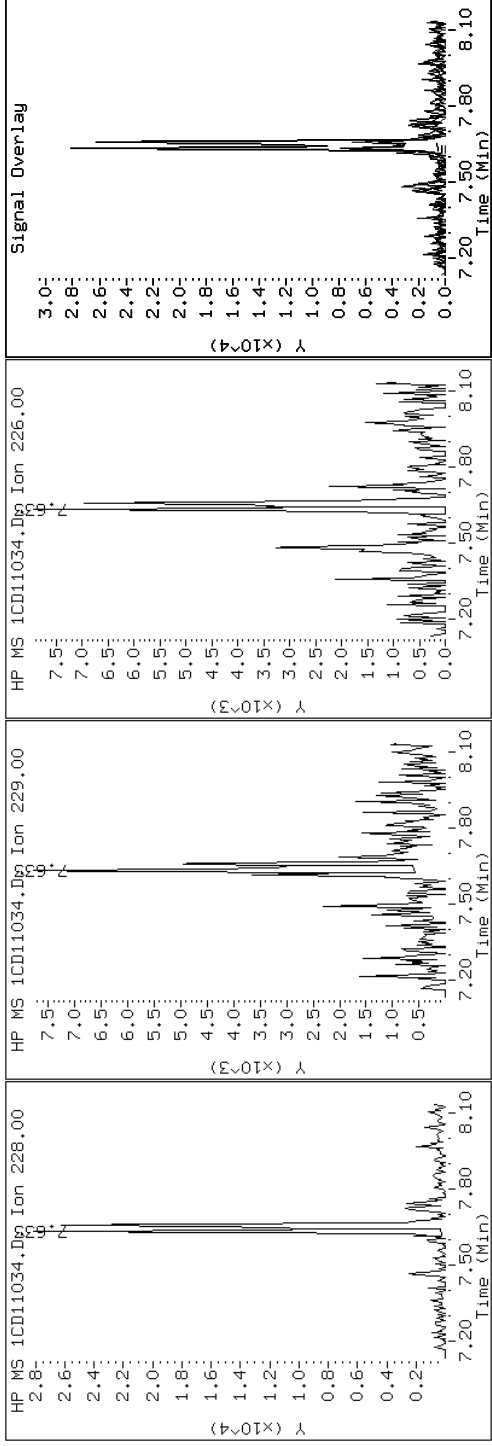
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

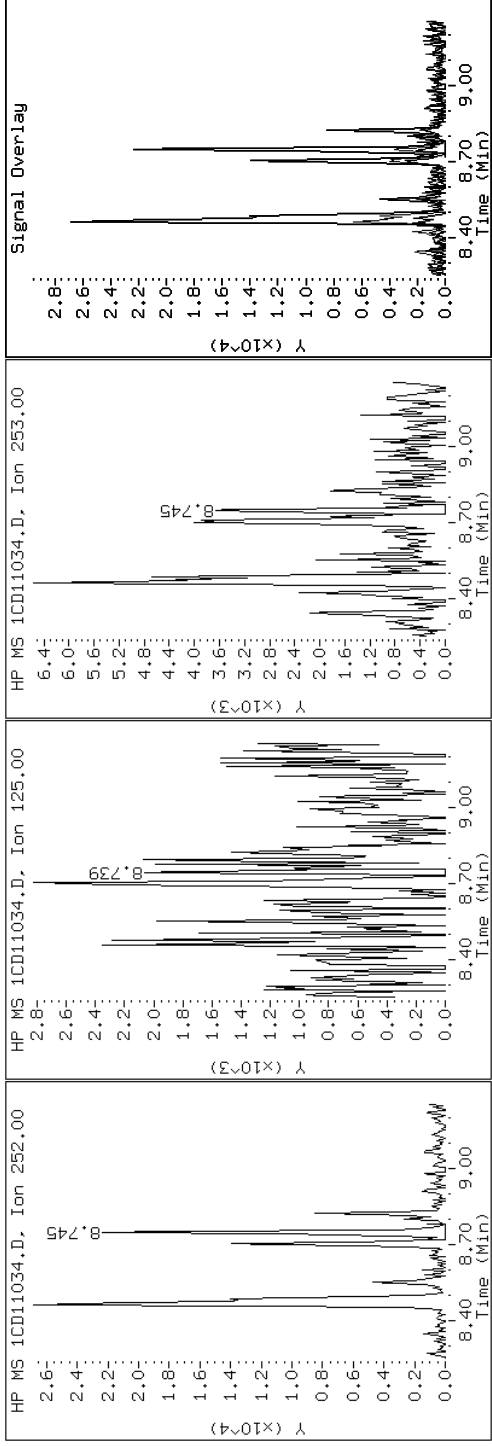
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

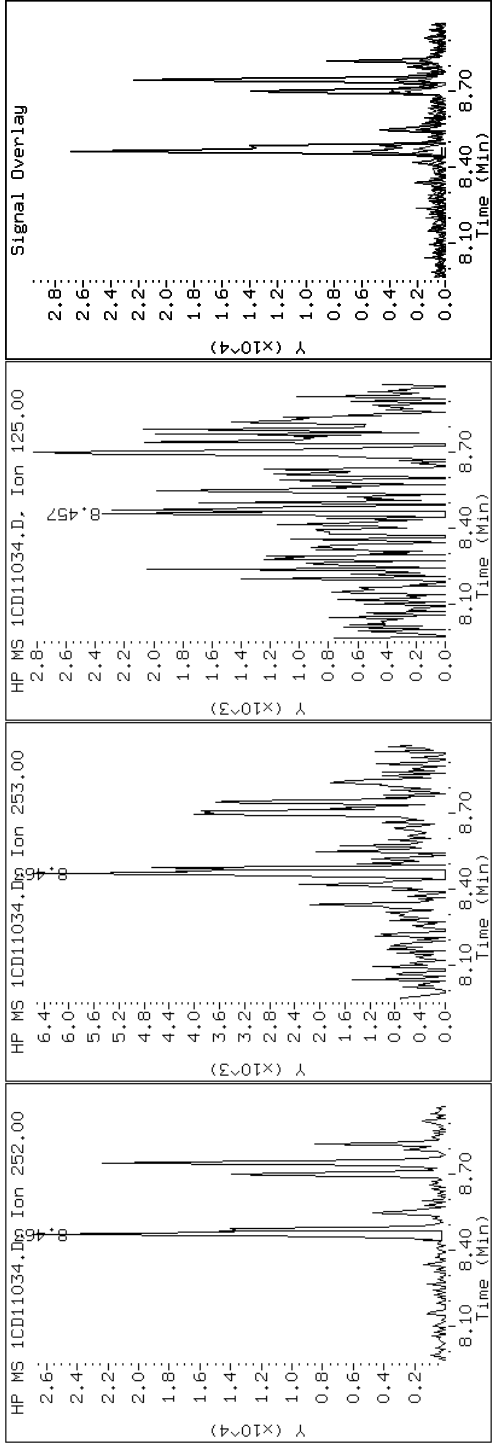
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

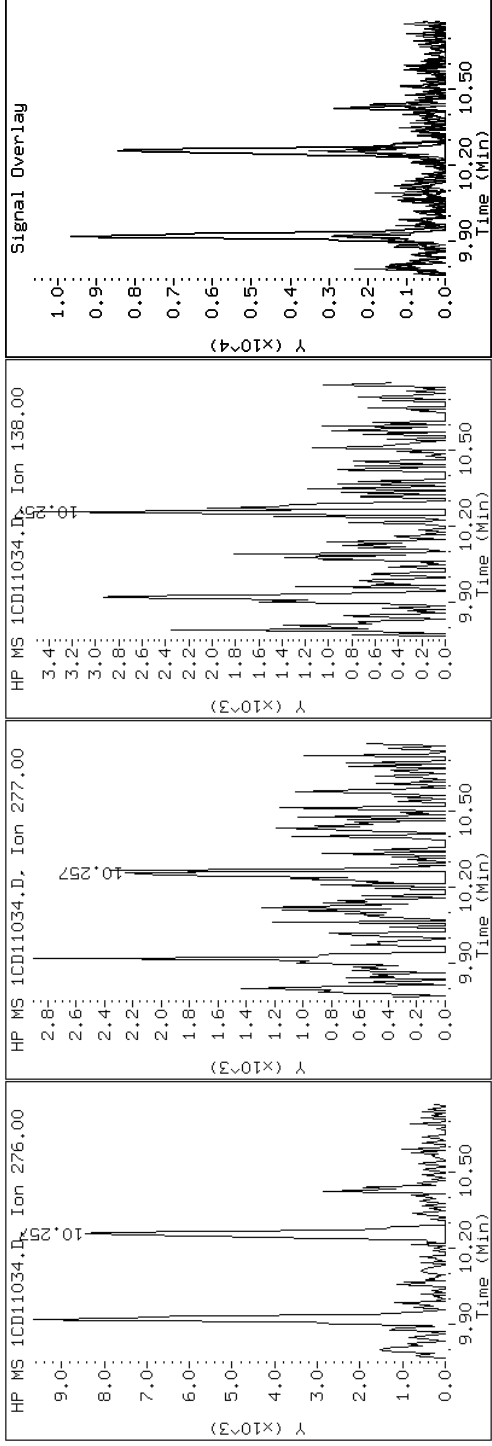
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

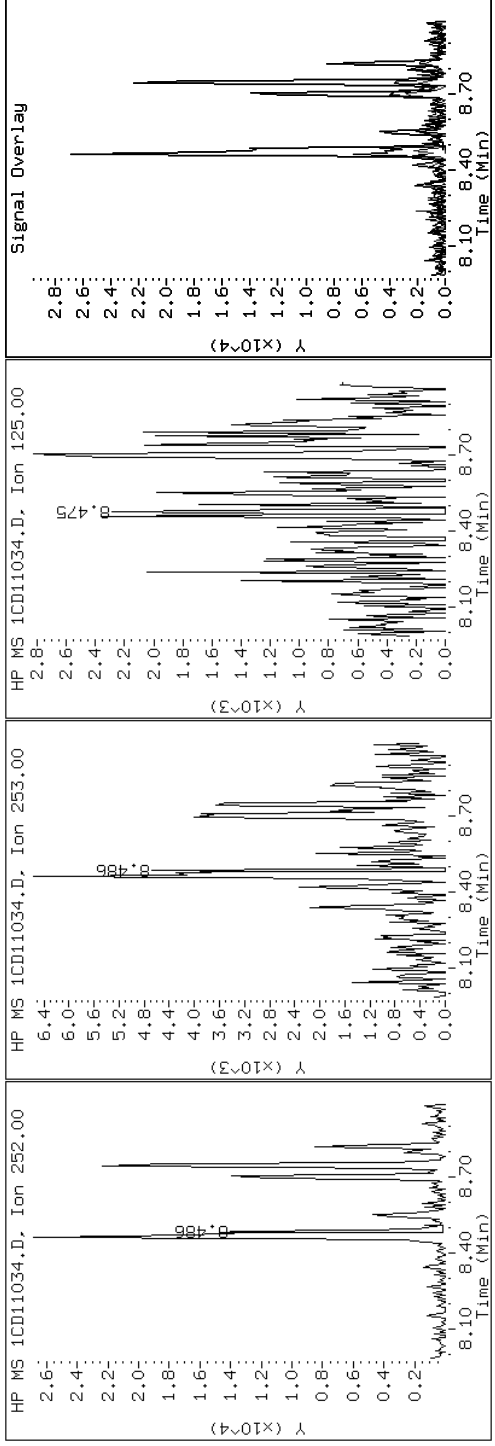
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

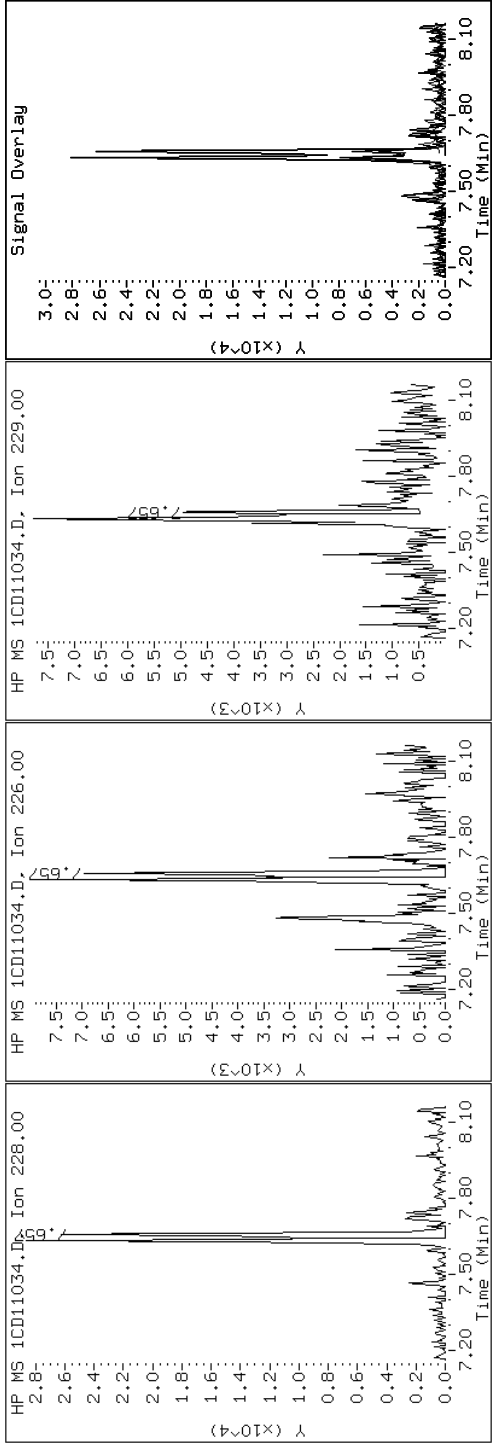
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

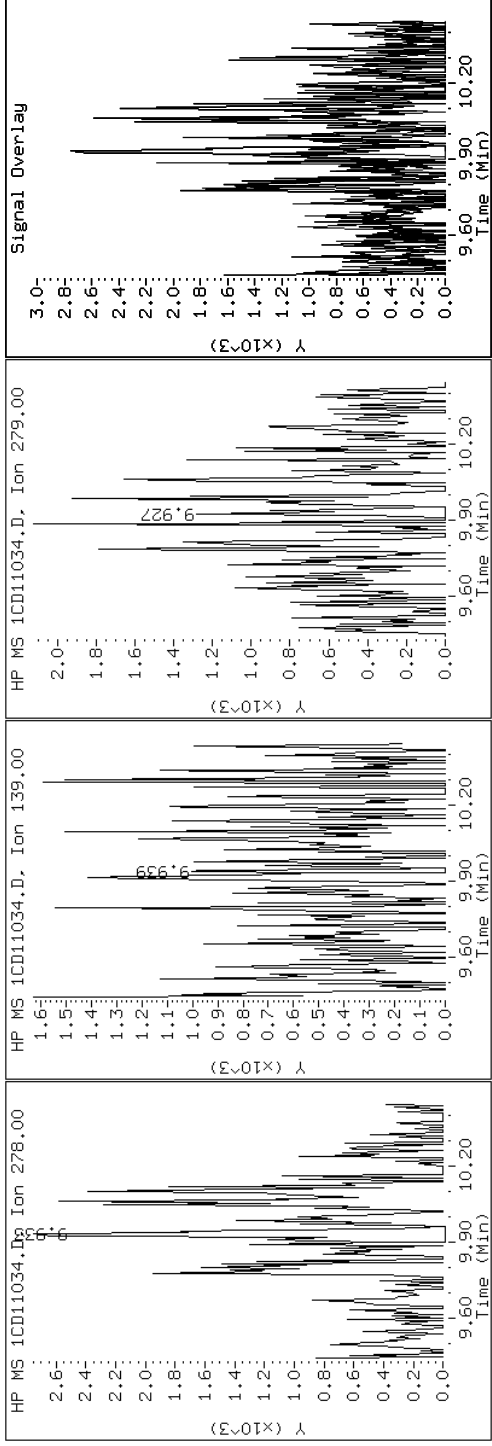
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

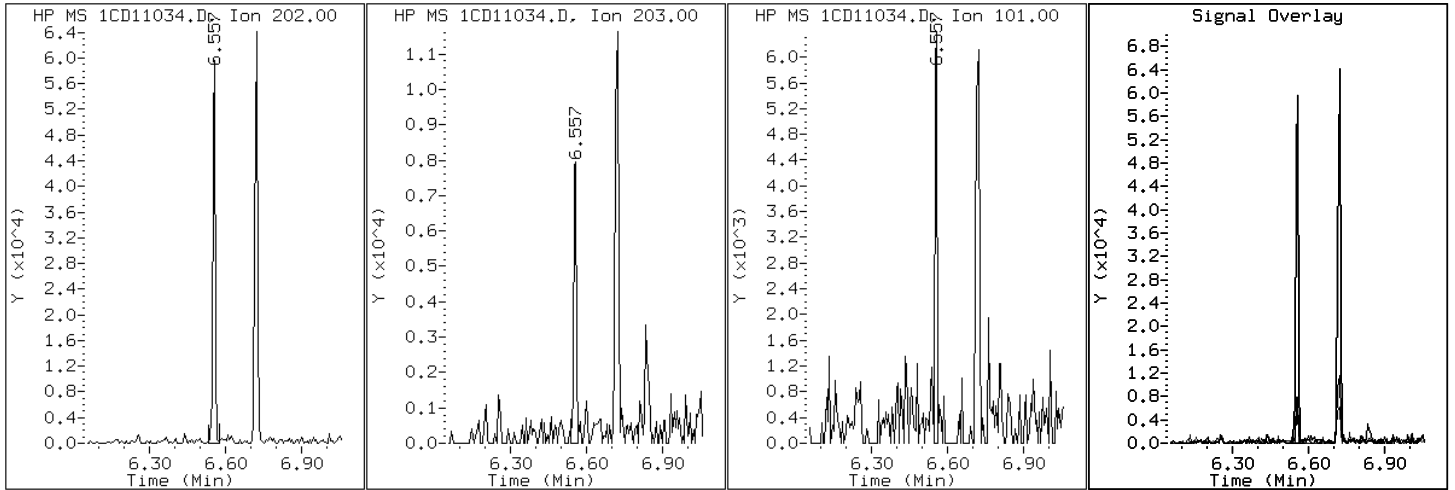
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

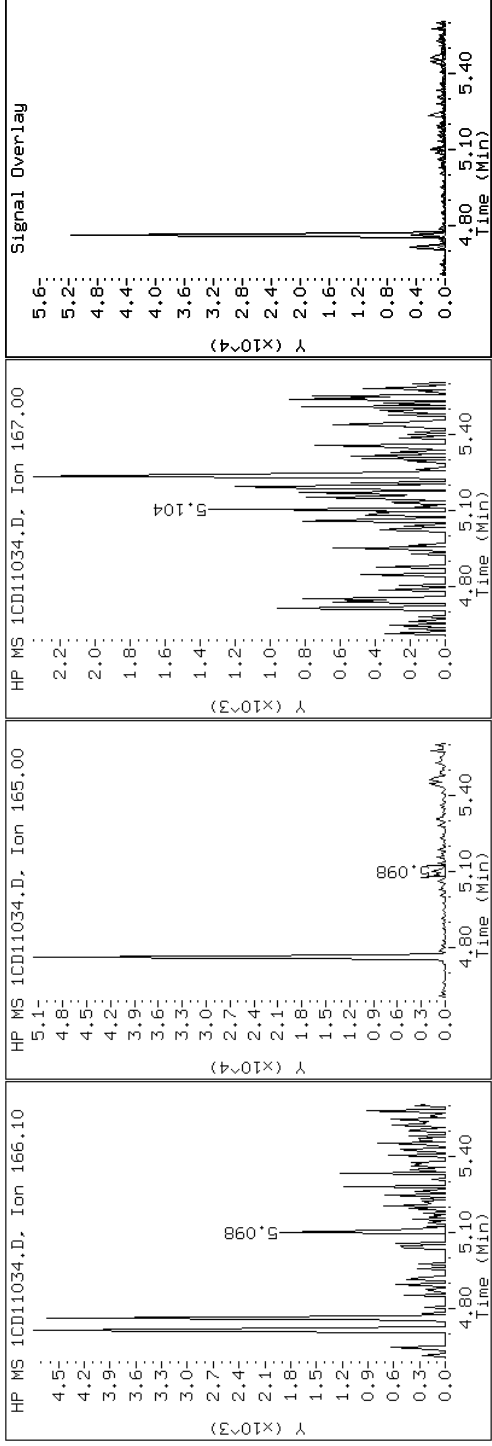
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

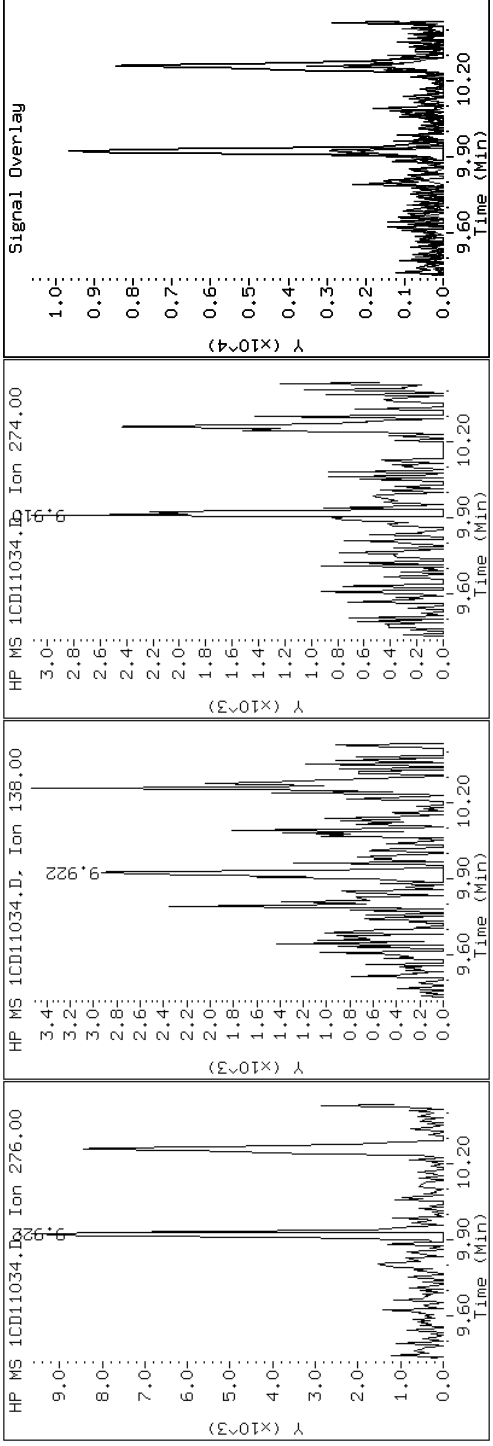
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

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



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

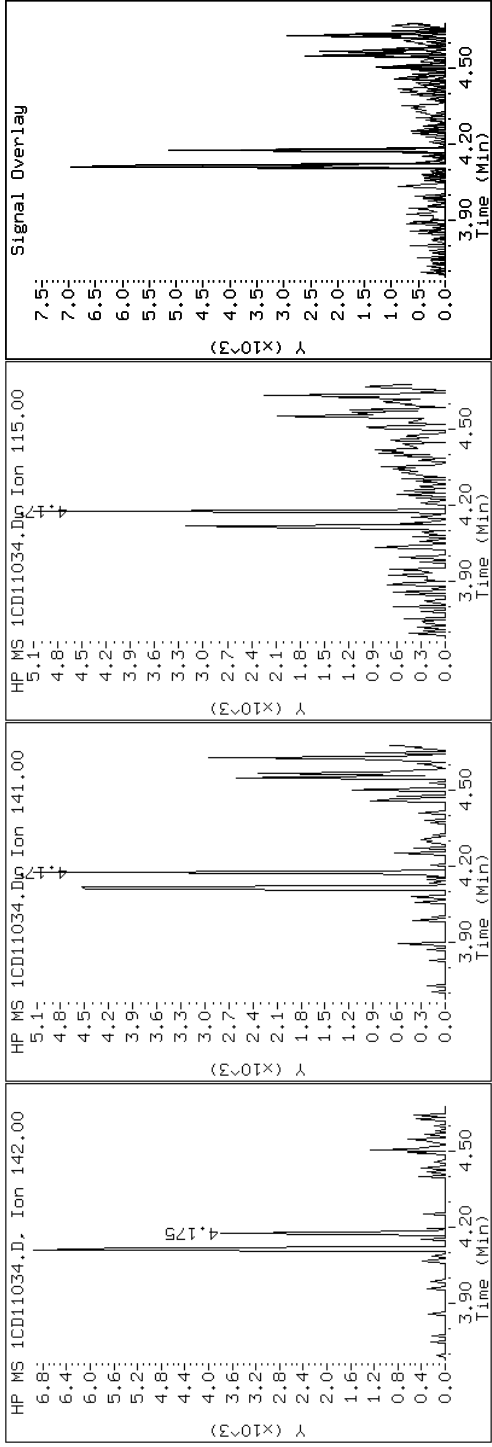
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

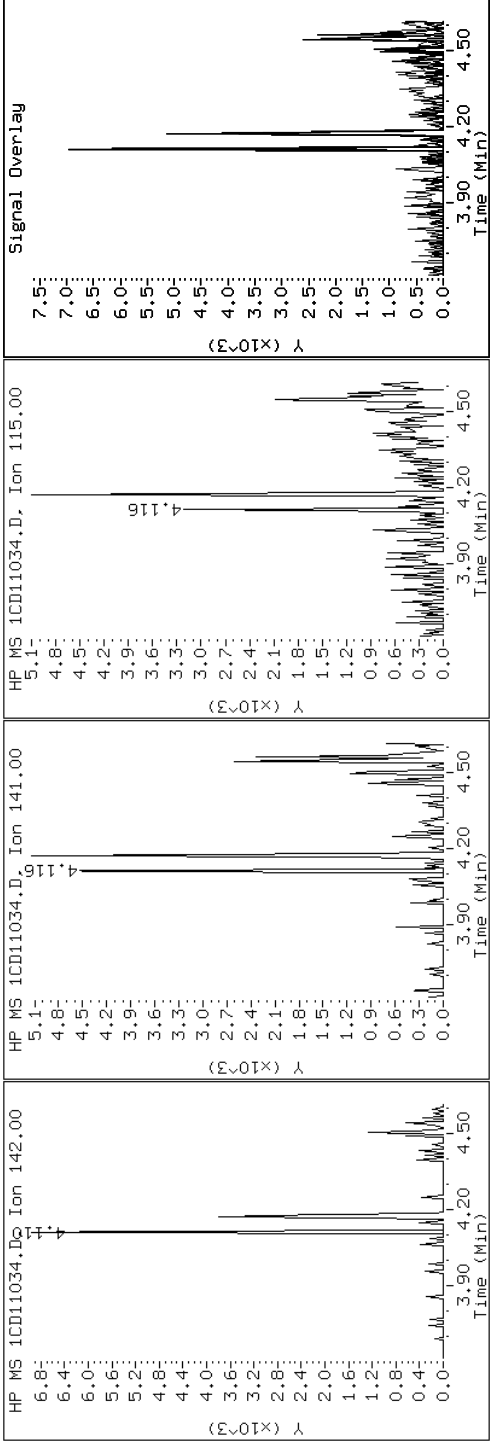
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

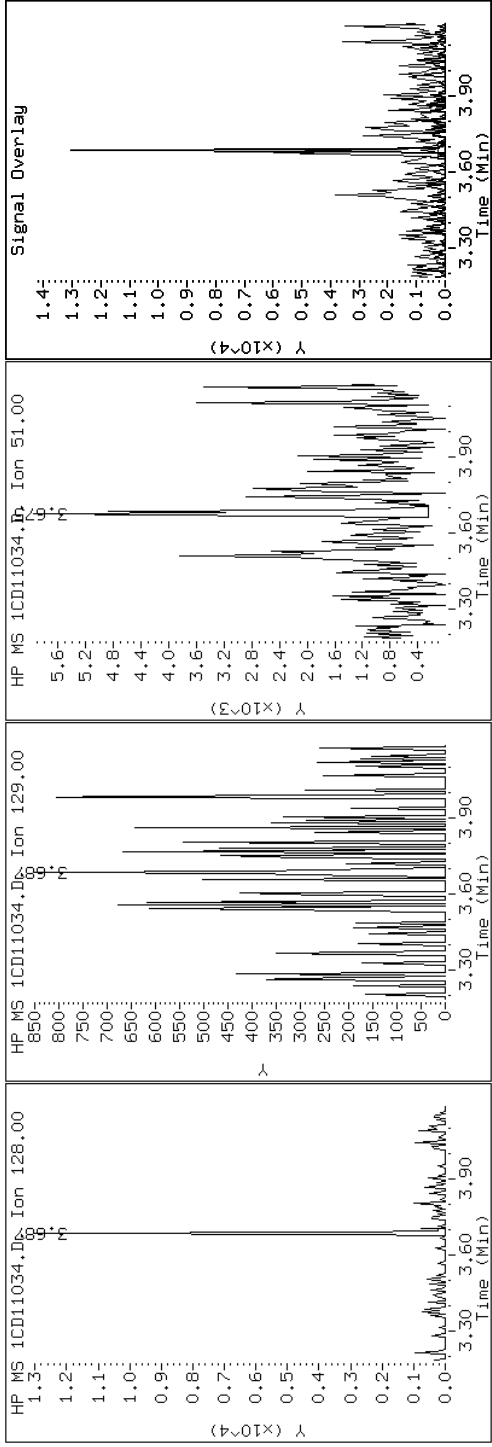
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

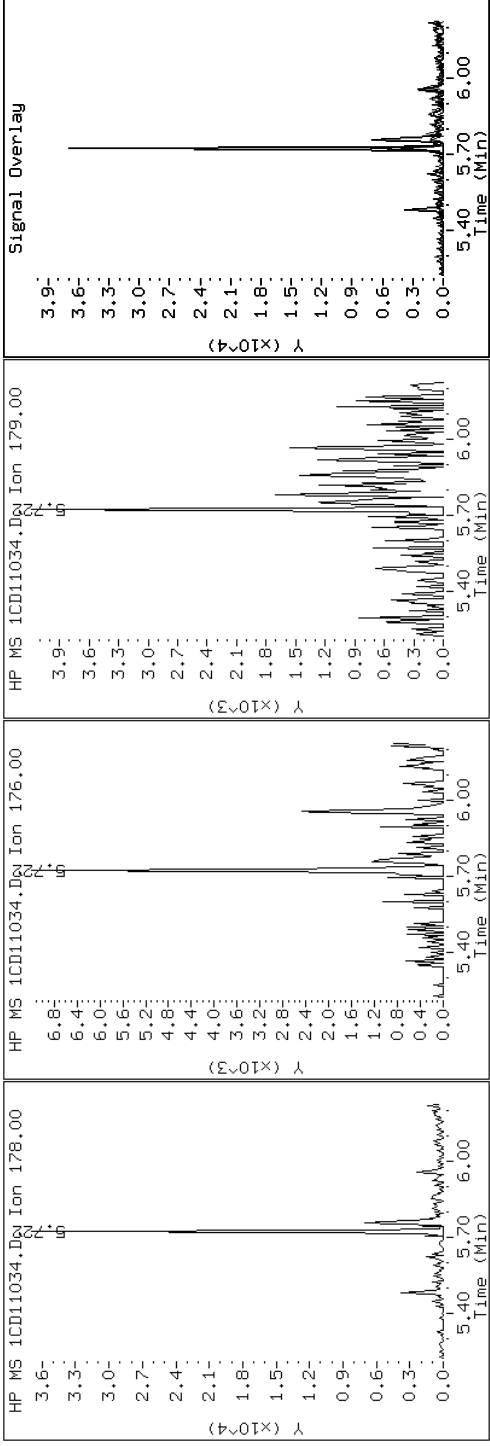
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CD11034.D

Date: 11-APR-2013 21:53

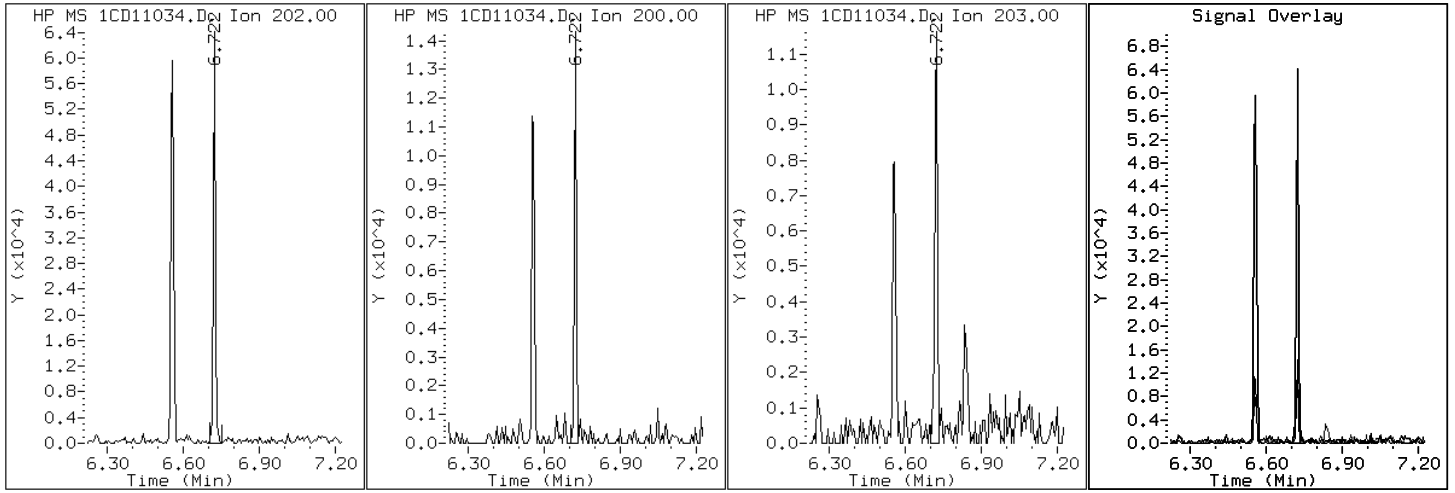
Client ID: CV0818A-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-16-a

Operator: SCC

16 Pyrene

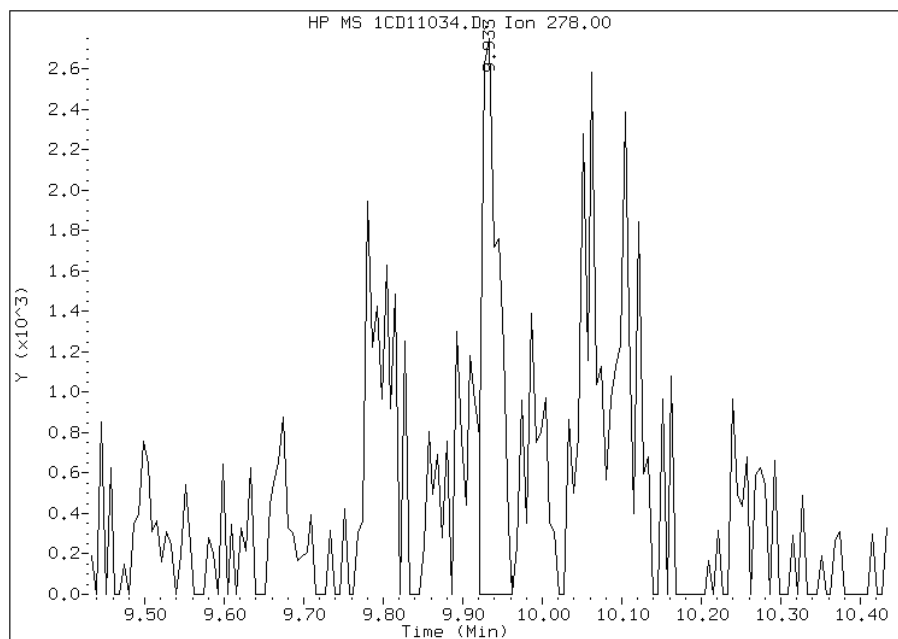


Manual Integration Report

Data File: 1CD11034.D
Inj. Date and Time: 11-APR-2013 21:53
Instrument ID: BSMC5973.i
Client ID: CV0818A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

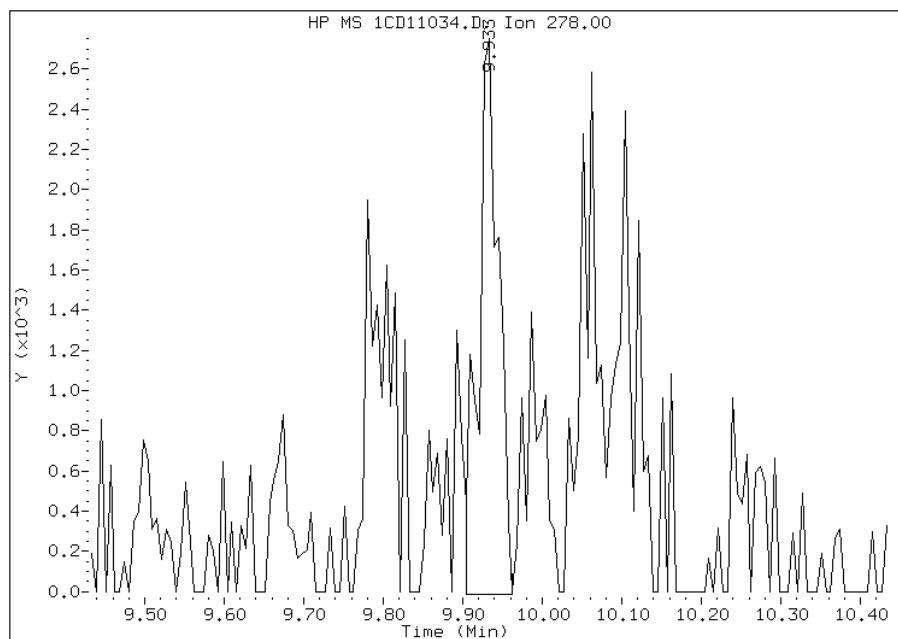
Processing Integration Results

RT: 9.93
Response: 3953
Amount: 1
Conc: 89



Manual Integration Results

RT: 9.93
Response: 4918
Amount: 1
Conc: 99



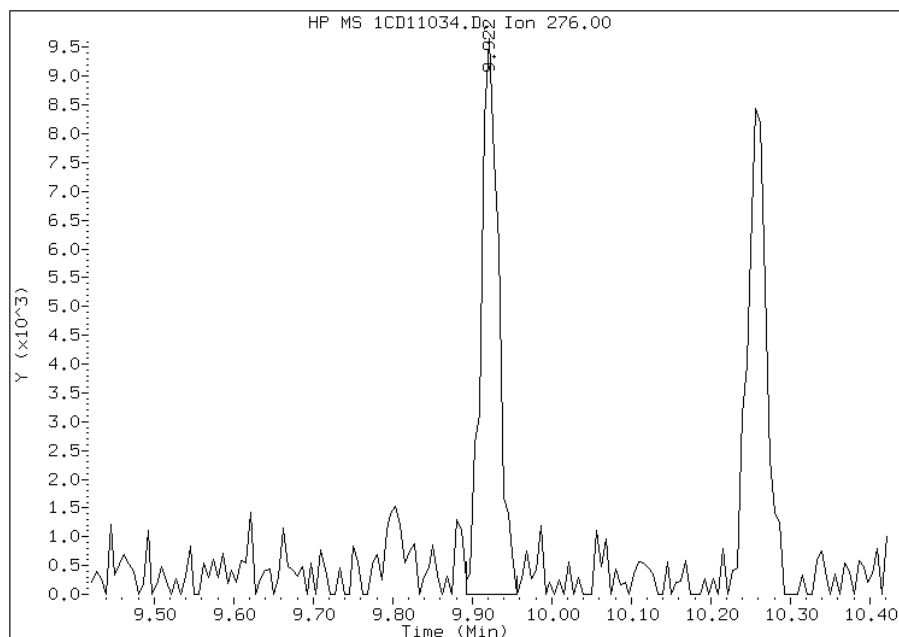
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11034.D
Inj. Date and Time: 11-APR-2013 21:53
Instrument ID: BSMC5973.i
Client ID: CV0818A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

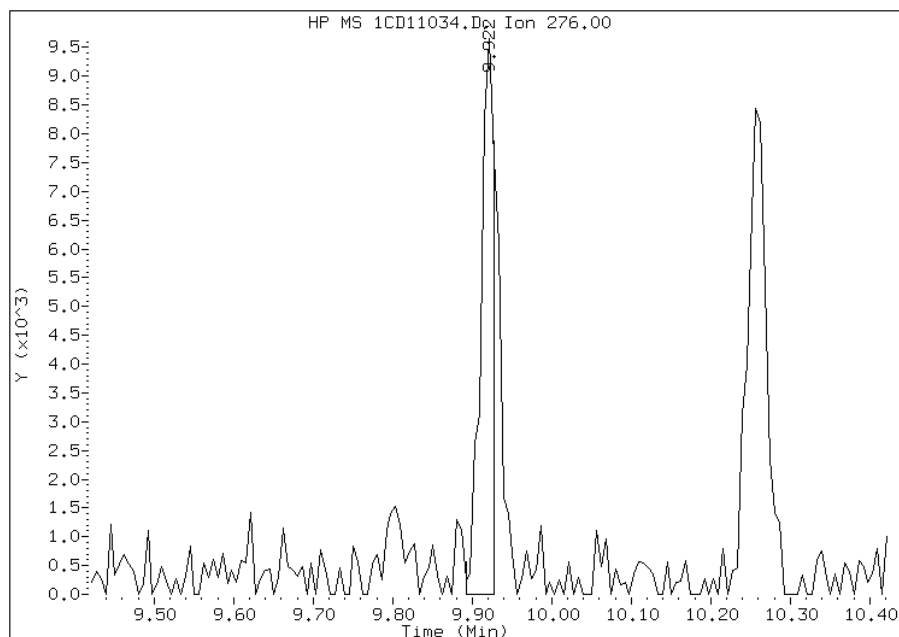
Processing Integration Results

RT: 9.92
Response: 14728
Amount: 2
Conc: 218



Manual Integration Results

RT: 9.92
Response: 11235
Amount: 2
Conc: 183



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 10:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0818B-CS Lab Sample ID: 680-89038-17
 Matrix: Solid Lab File ID: 1CD12008.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:07
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.47 (g) Date Analyzed: 04/12/2013 13:15
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 28.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	33	J	220	27
120-12-7	Anthracene	31	J	46	23
56-55-3	Benzo[a]anthracene	43	U	43	21
50-32-8	Benzo[a]pyrene	110		56	28
205-99-2	Benzo[b]fluoranthene	140		66	33
191-24-2	Benzo[g,h,i]perylene	82	J	110	24
207-08-9	Benzo[k]fluoranthene	66		43	20
218-01-9	Chrysene	83		49	24
53-70-3	Dibenz(a,h)anthracene	110	U	110	22
206-44-0	Fluoranthene	130		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	110	U	110	39
90-12-0	1-Methylnaphthalene	43	J	220	24
91-57-6	2-Methylnaphthalene	170	J	220	39
91-20-3	Naphthalene	45	J	220	24
85-01-8	Phenanthrene	43	U	43	21
129-00-0	Pyrene	130		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12008.D
 Lab Smp Id: 680-89038-A-17-A Client Smp ID: CV0818B-CS
 Inj Date : 12-APR-2013 13:15
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-17-a
 Misc Info : 680-89038-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	15.470	Weight Extracted
M	28.511	% 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		3.668	3.669	(1.000)	282367	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	195858	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.704	(1.000)	353917	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.951	(1.044)	11816	2.70579	978.6392
* 18 Chrysene-d12	240		7.633	7.639	(1.000)	435158	40.0000	
* 23 Perylene-d12	264		8.792	8.792	(1.000)	423985	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	958	0.12551	45.3950(Q)
3 2-Methylnaphthalene	142		4.104	4.110	(1.119)	960	0.46077	166.6544
4 1-Methylnaphthalene	142		4.163	4.169	(1.135)	575	0.11794	42.6552(Q)
5 Acenaphthylene	152		4.668	4.669	(0.981)	761	0.09170	33.1646
12 Anthracene	178		5.751	5.751	(1.009)	890	0.08662	31.3295
15 Fluoranthene	202		6.551	6.551	(1.150)	4239	0.36921	133.5385
16 Pyrene	202		6.715	6.716	(0.880)	4534	0.36624	132.4635
19 Chrysene	228		7.656	7.657	(1.003)	2798	0.22985	83.1330

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Benzo(b)fluoranthene	252	8.451	8.457	(0.961)	4255	0.39734	143.7102
21 Benzo(k)fluoranthene	252	8.480	8.480	(0.965)	2214	0.18271	66.0831(Q)
22 Benzo(a)pyrene	252	8.727	8.739	(0.993)	3292	0.29739	107.5622(M)
26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.167)	2358	0.22727	82.1983(M)

QC Flag Legend

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

Data File: 1CD12008.D

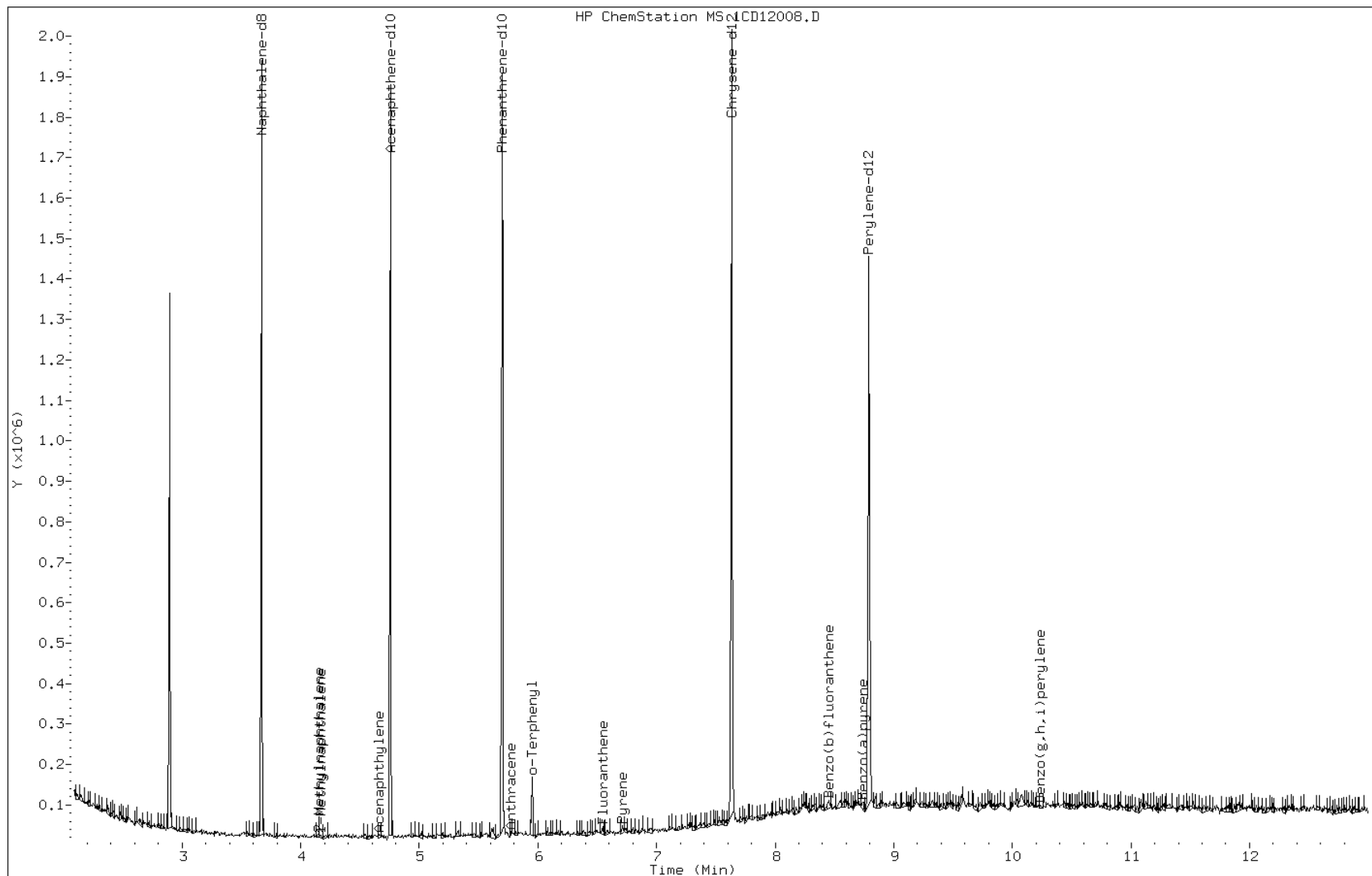
Date: 12-APR-2013 13:15

Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

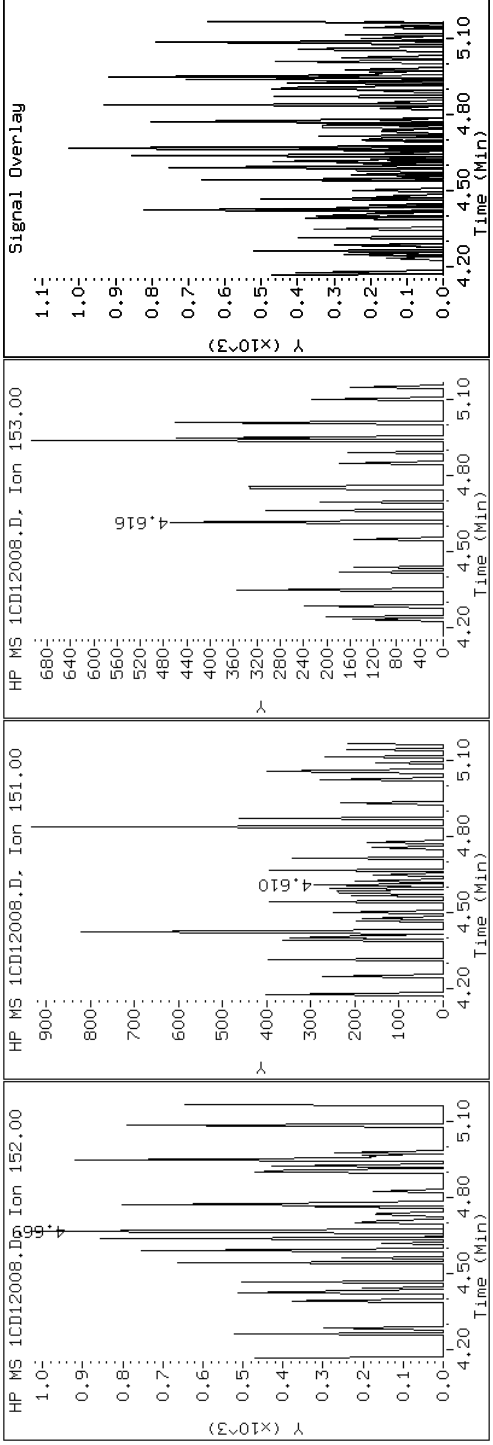
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

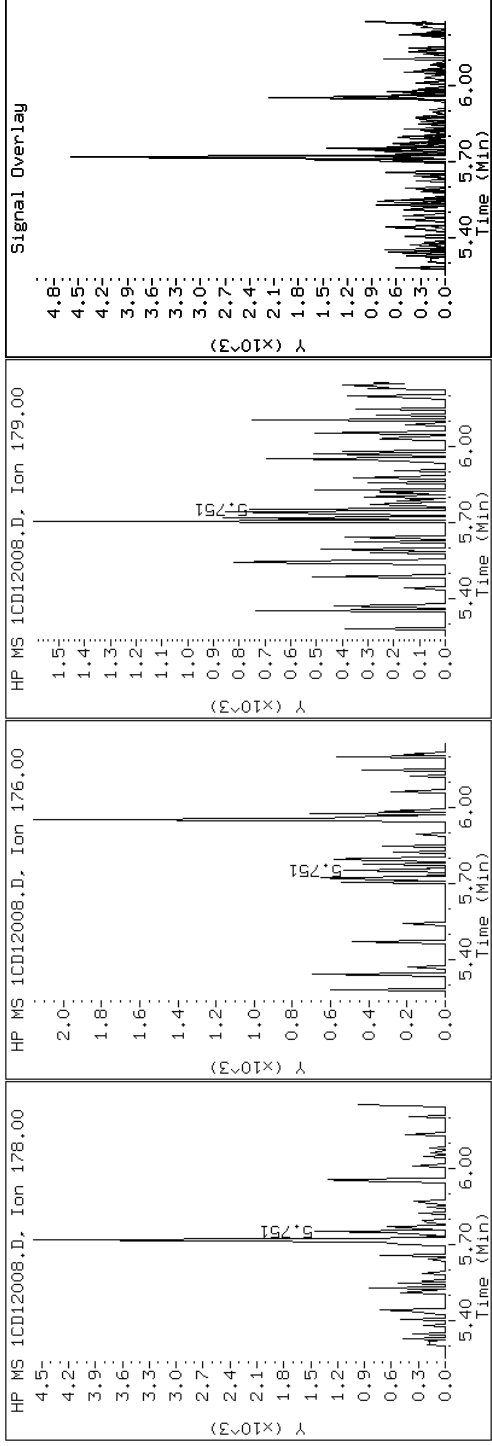
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

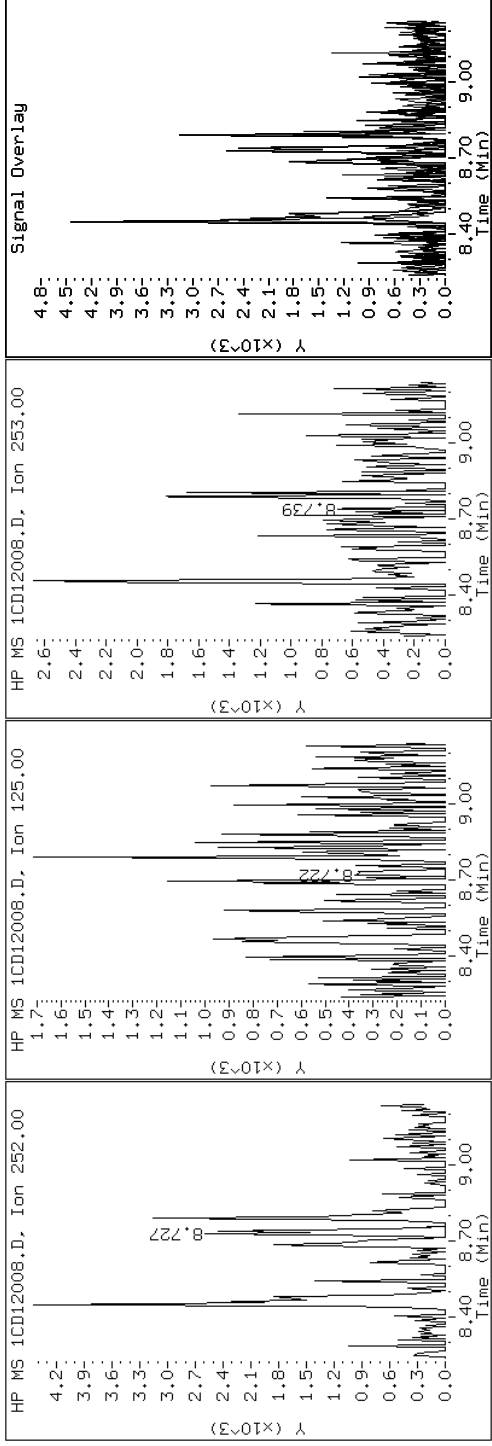
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

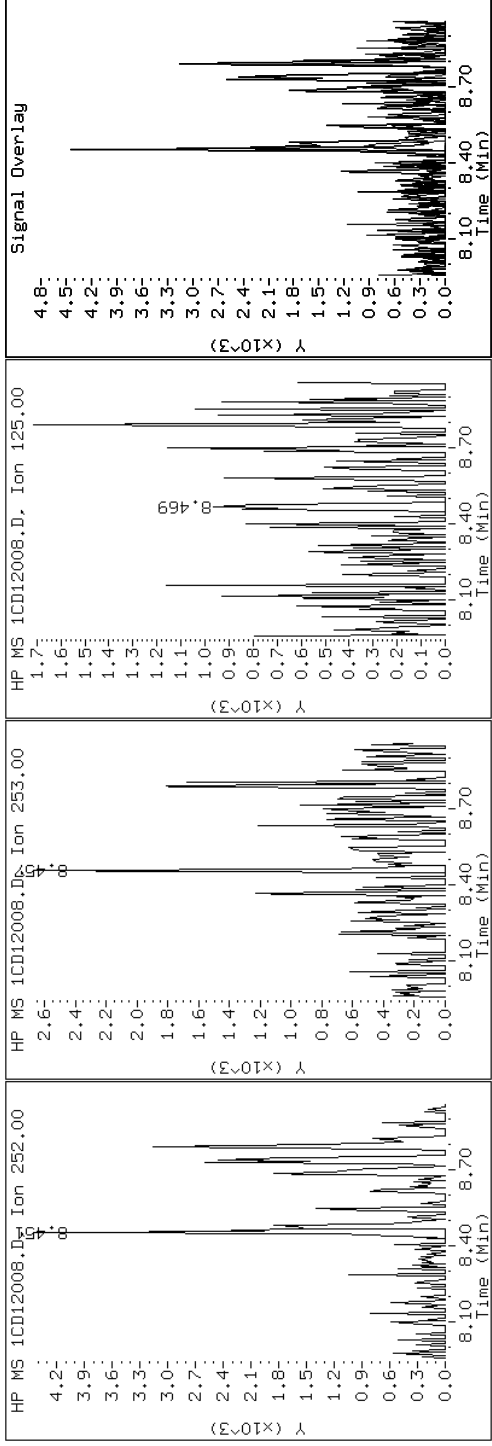
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

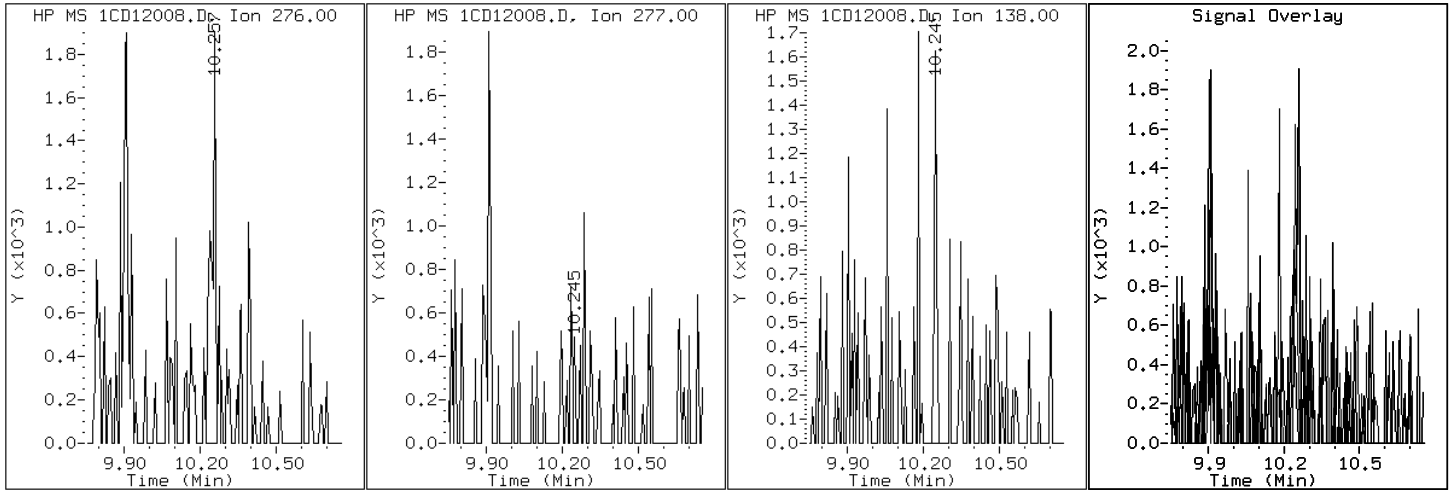
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

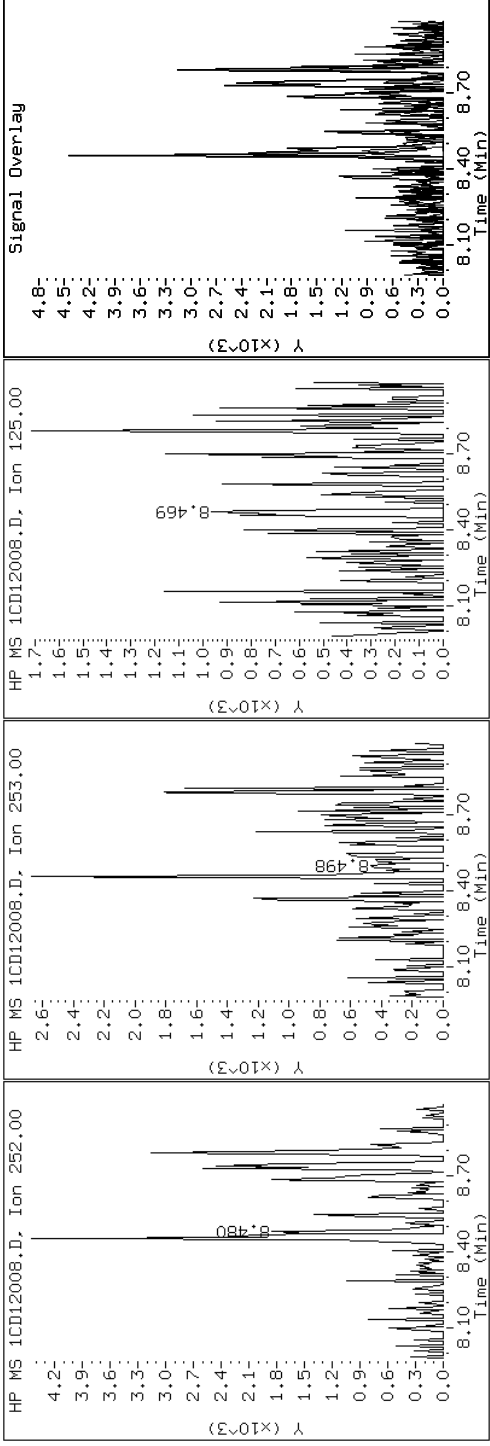
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

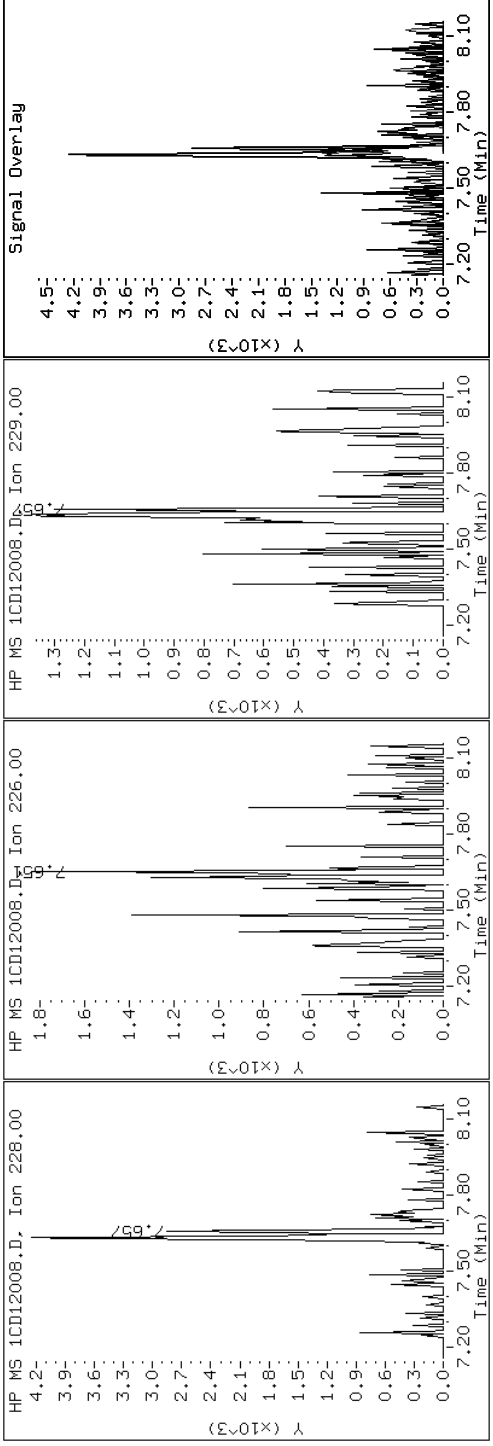
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

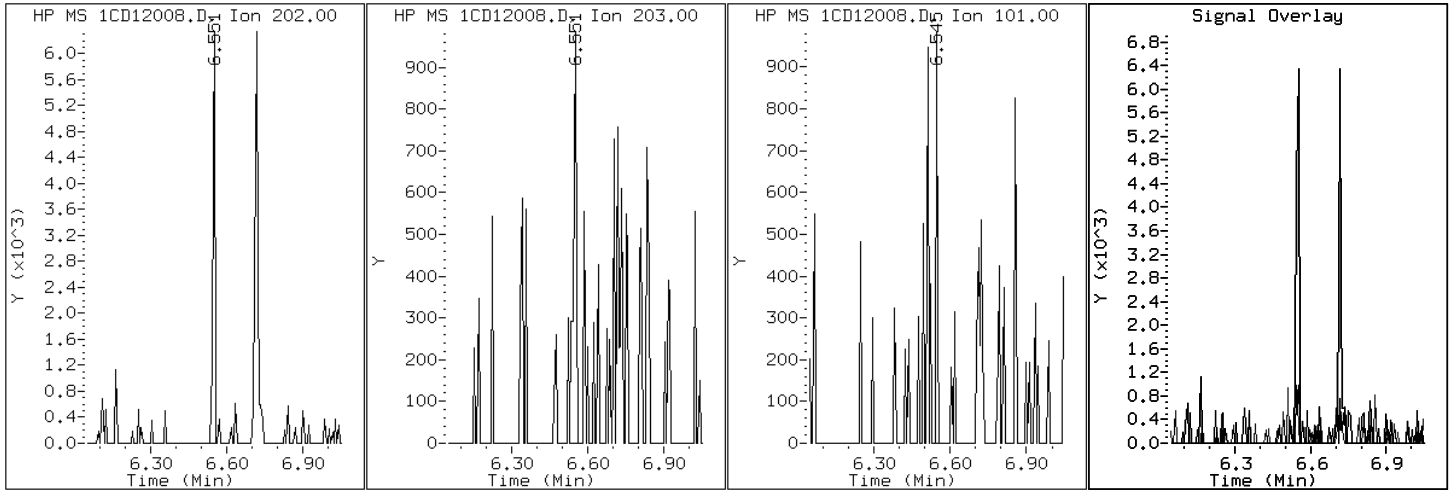
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

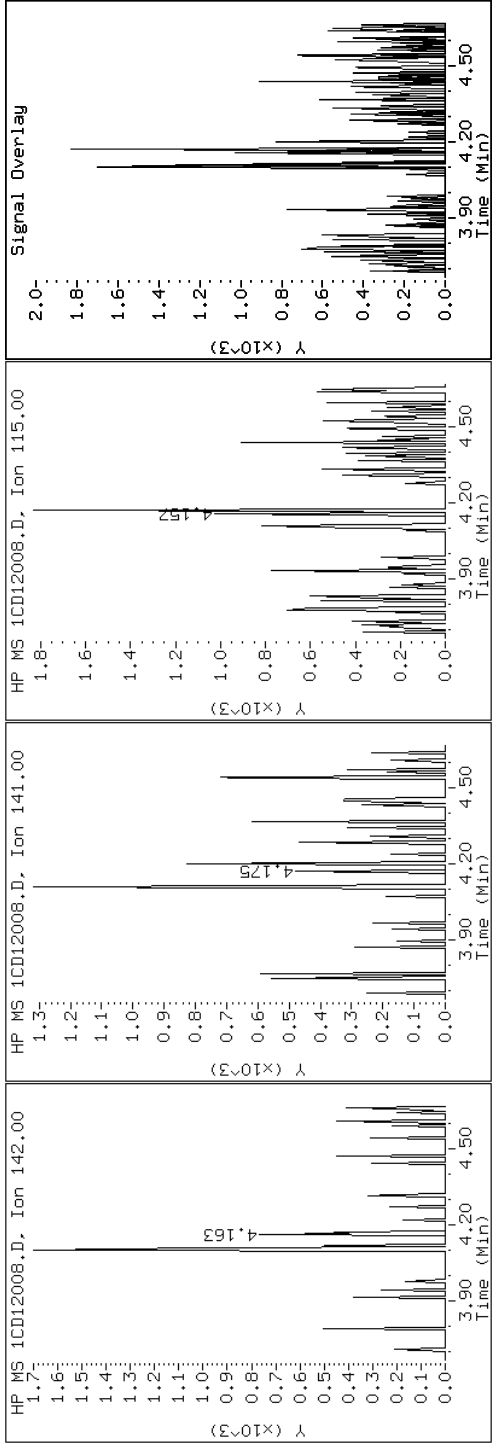
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

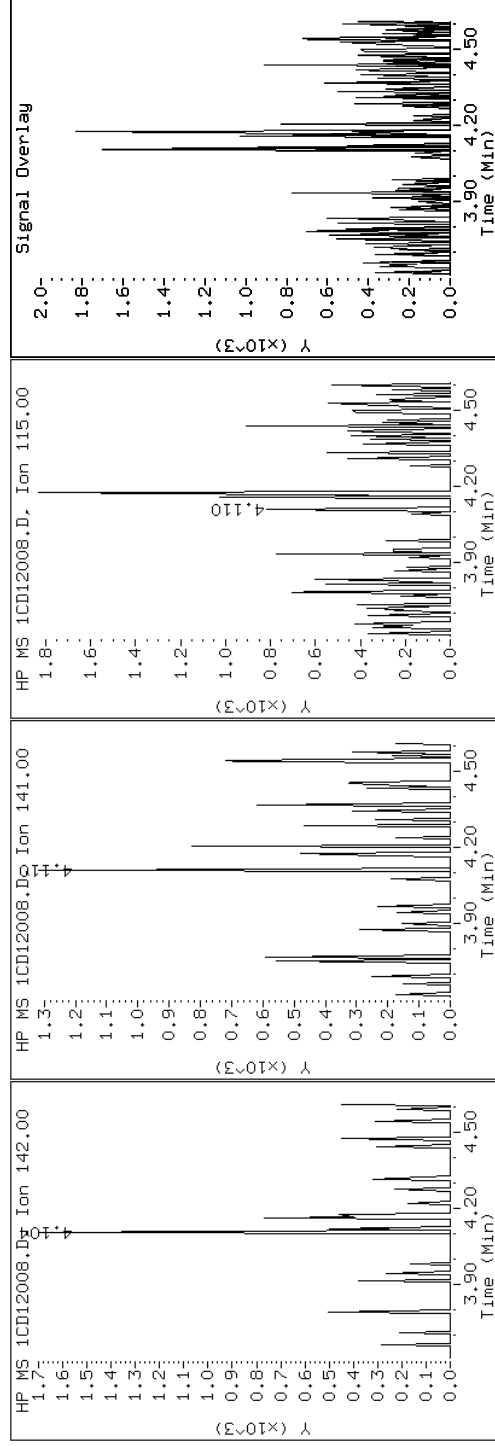
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

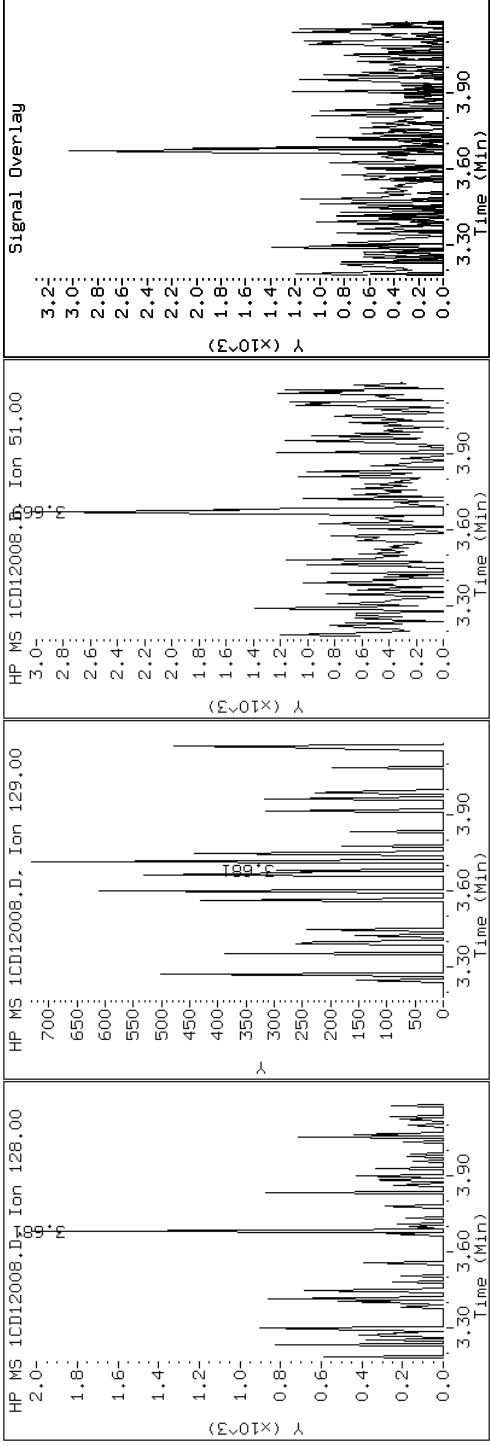
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CD12008.D

Date: 12-APR-2013 13:15

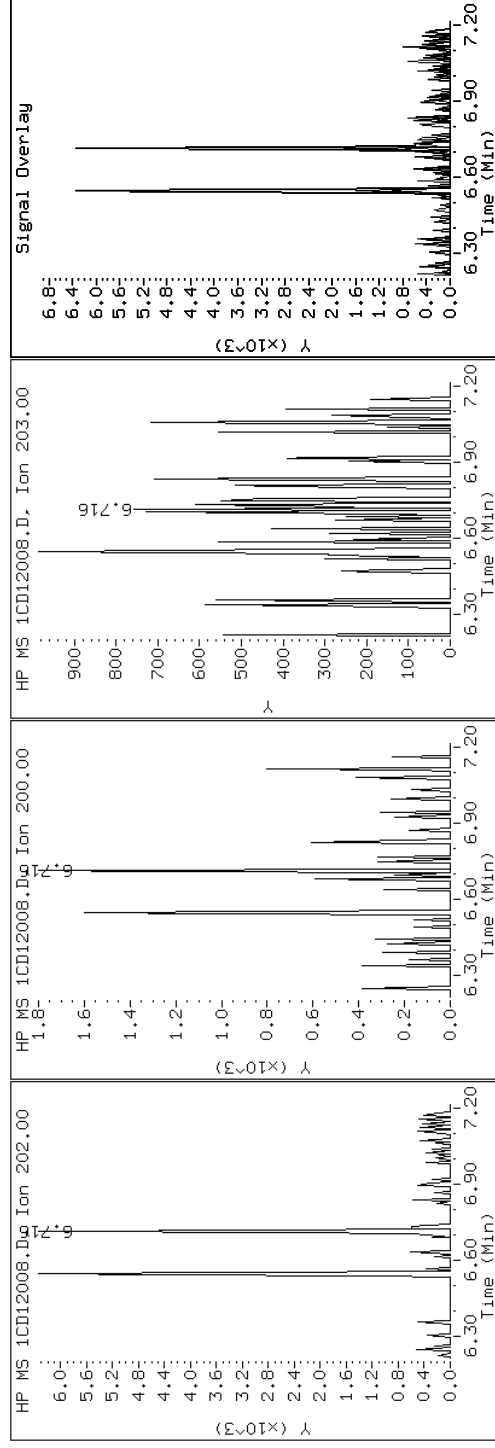
Client ID: CV0818B-CS

Instrument: BSMC5973.i

Sample Info: 680-89038-a-17-a

Operator: SCC

16 Pyrene

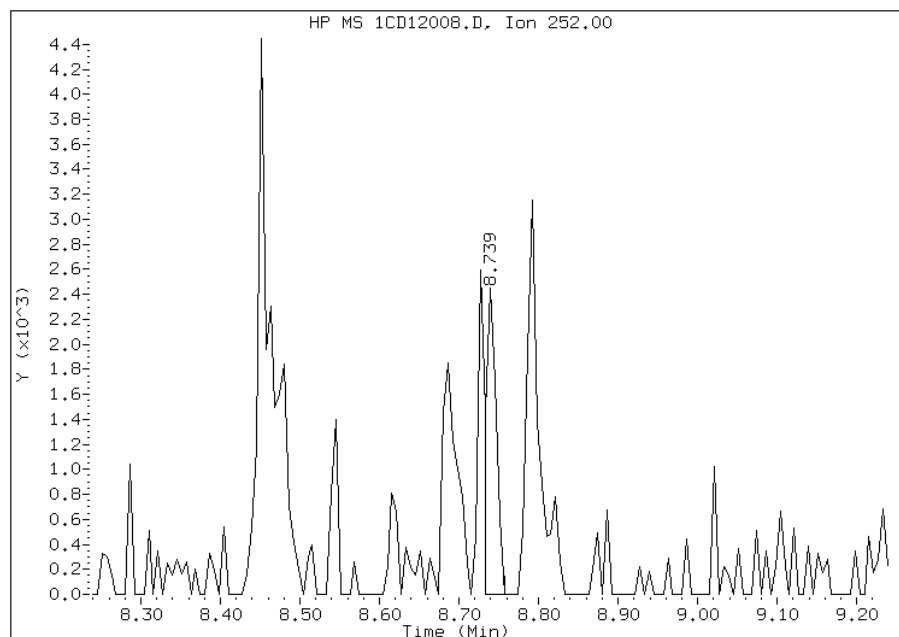


Manual Integration Report

Data File: 1CD12008.D
Inj. Date and Time: 12-APR-2013 13:15
Instrument ID: BSMC5973.i
Client ID: CV0818B-CS
Compound: 22 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 04/15/2013

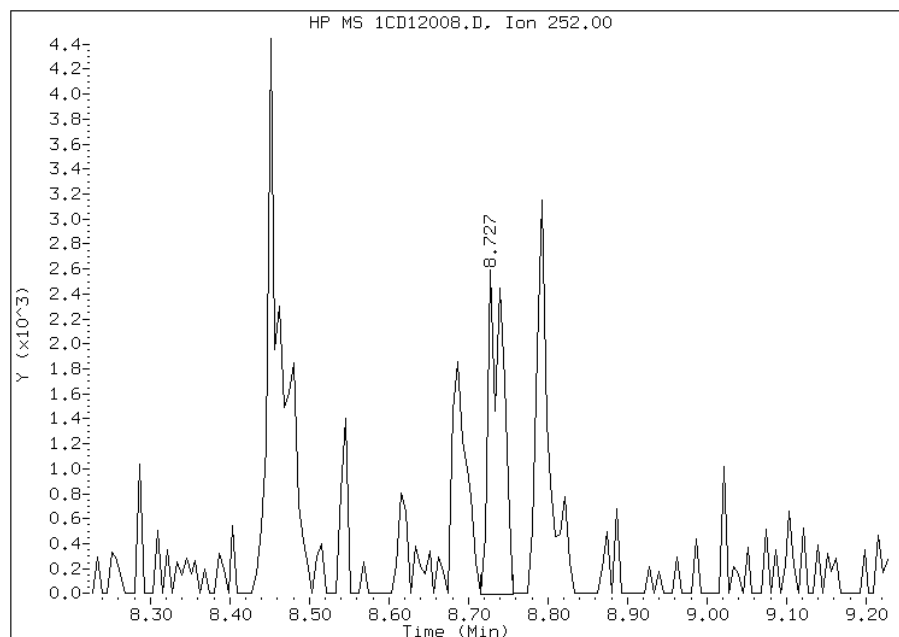
Processing Integration Results

RT: 8.74
Response: 2199
Amount: 0
Conc: 72



Manual Integration Results

RT: 8.73
Response: 3292
Amount: 0
Conc: 108



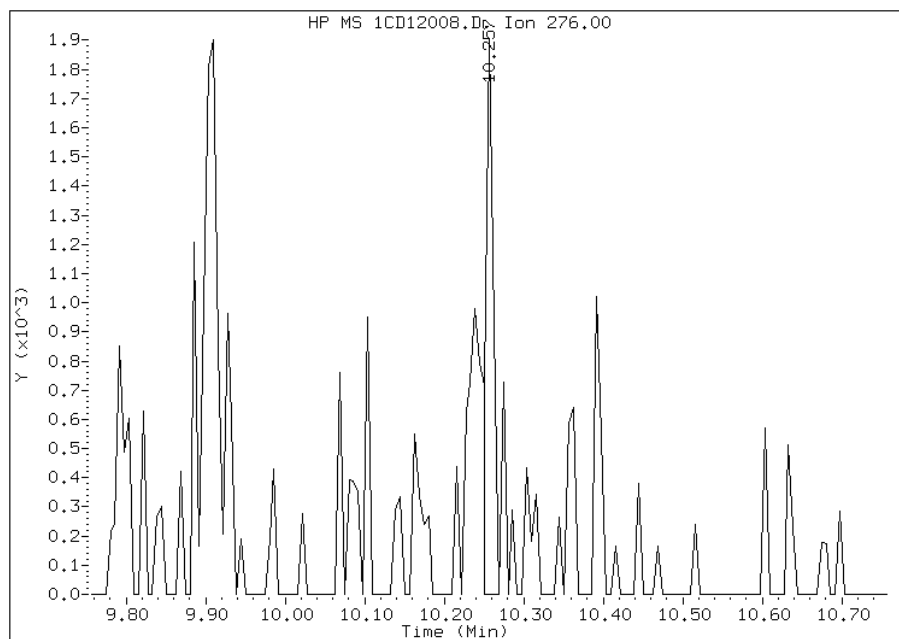
Manually Integrated By: cantins
Modification Date: 15-Apr-2013 10:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD12008.D
Inj. Date and Time: 12-APR-2013 13:15
Instrument ID: BSMC5973.i
Client ID: CV0818B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/15/2013

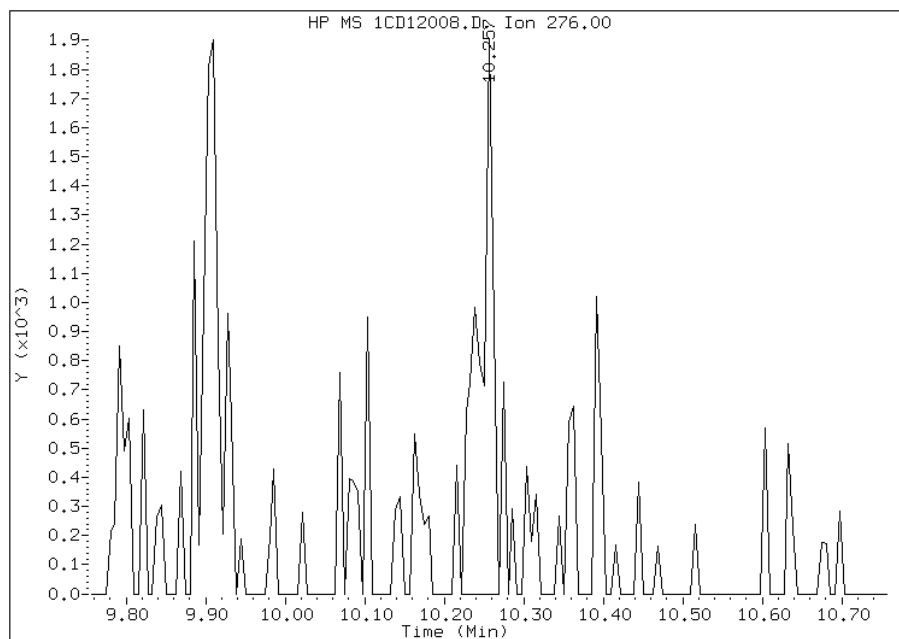
Processing Integration Results

RT: 10.26
Response: 1249
Amount: 0
Conc: 44



Manual Integration Results

RT: 10.26
Response: 2358
Amount: 0
Conc: 82



Manually Integrated By: cantins
Modification Date: 15-Apr-2013 10:32
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0741A-CS-SP Lab Sample ID: 680-89038-18
 Matrix: Solid Lab File ID: 1CD12009.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 13:50
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.44(g) Date Analyzed: 04/12/2013 13:34
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	53	U	53	6.7
120-12-7	Anthracene	11	U	11	5.6
56-55-3	Benzo[a]anthracene	11	U	11	5.2
50-32-8	Benzo[a]pyrene	35		14	6.9
205-99-2	Benzo[b]fluoranthene	65		16	8.1
191-24-2	Benzo[g,h,i]perylene	29		27	5.9
207-08-9	Benzo[k]fluoranthene	17		11	4.8
218-01-9	Chrysene	27		12	6.0
53-70-3	Dibenz(a,h)anthracene	27	U	27	5.5
206-44-0	Fluoranthene	50		27	5.3
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	85		27	9.5
90-12-0	1-Methylnaphthalene	5.9	J	53	5.9
91-57-6	2-Methylnaphthalene	53	U	53	9.5
91-20-3	Naphthalene	7.0	J	53	5.9
85-01-8	Phenanthrene	11	U	11	5.2
129-00-0	Pyrene	39		27	4.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12009.D
 Lab Smp Id: 680-89038-A-18-A Client Smp ID: CV0741A-CS-SP
 Inj Date : 12-APR-2013 13:34
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-18-a
 Misc Info : 680-89038-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.440	Weight Extracted
M	27.273	% 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		3.668	3.669	(1.000)	256181	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	182063	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.704	(1.000)	345009	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.951	(1.044)	39908	7.67488	683.4817
* 18 Chrysene-d12	240		7.633	7.639	(1.000)	422395	40.0000	
* 23 Perylene-d12	264		8.792	8.792	(1.000)	416811	40.0000	
2 Naphthalene	128		3.686	3.680	(1.005)	548	0.07913	7.0472(Q)
4 1-Methylnaphthalene	142		4.163	4.169	(1.135)	295	0.06669	5.9390(Q)
13 Carbazole	167		5.851	5.857	(1.027)	1185	0.12703	11.3127
15 Fluoranthene	202		6.545	6.551	(1.149)	6315	0.56423	50.2475
16 Pyrene	202		6.715	6.716	(0.880)	5292	0.44039	39.2184
19 Chrysene	228		7.651	7.657	(1.002)	3591	0.30391	27.0643
20 Benzo(b)fluoranthene	252		8.456	8.457	(0.962)	7657	0.72733	64.7717
21 Benzo(k)fluoranthene	252		8.480	8.480	(0.965)	2265	0.19014	16.9324(Q)

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
22 Benzo(a)pyrene	252	8.739	8.739	(0.994)	4306	0.39569	35.2381
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.921	(1.126)	3433	0.95695	85.2208(H)
26 Benzo(g,h,i)perylene	276	10.244	10.256	(1.165)	3326	0.32608	29.0389(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: 1CD12009.D

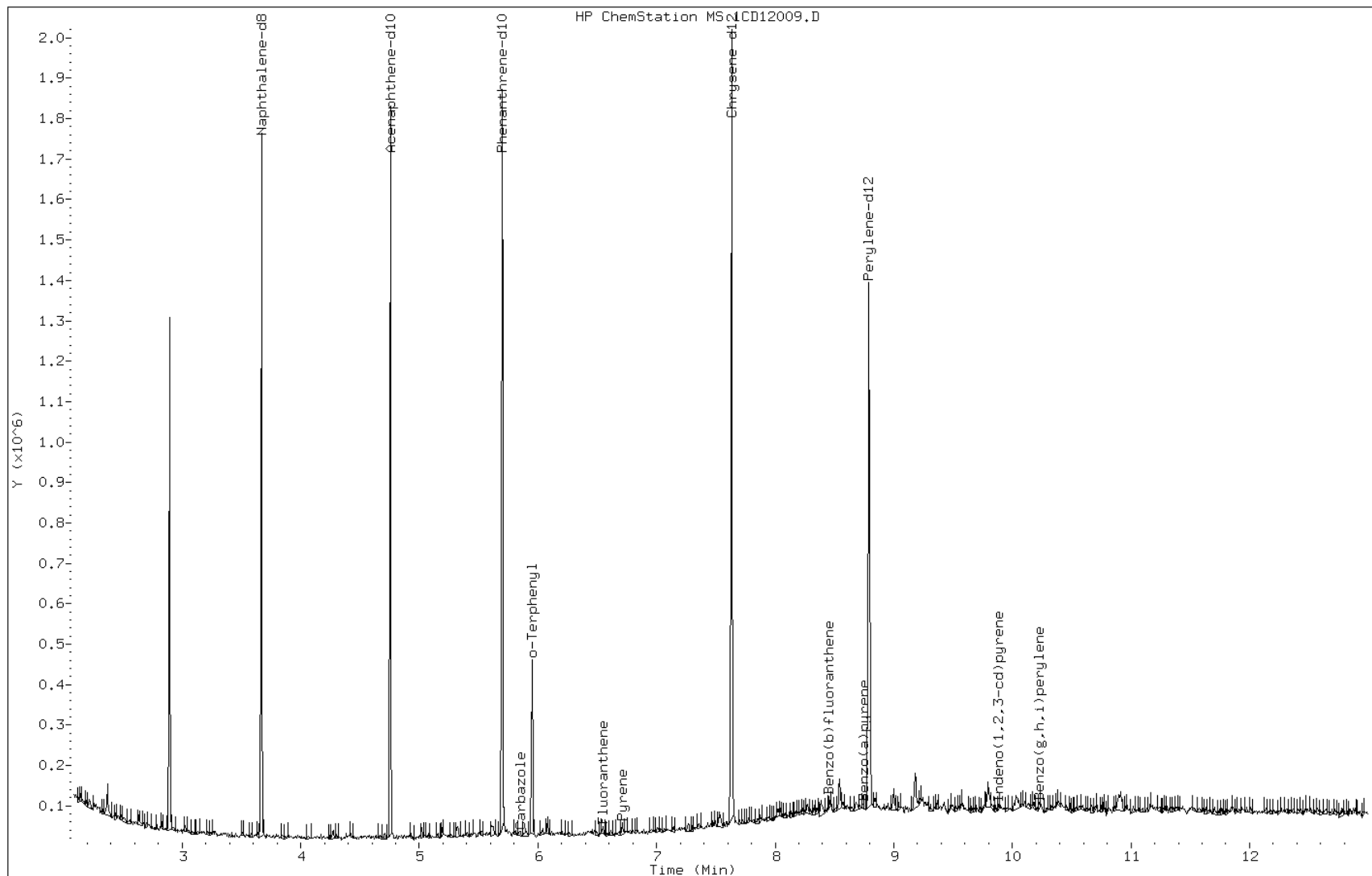
Date: 12-APR-2013 13:34

Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

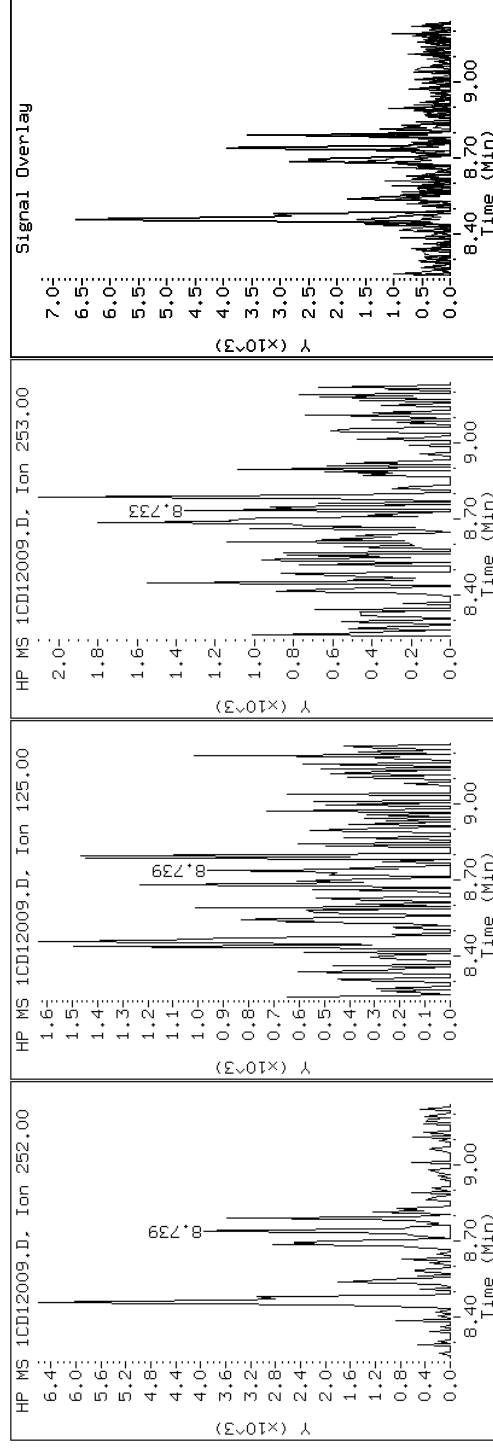
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

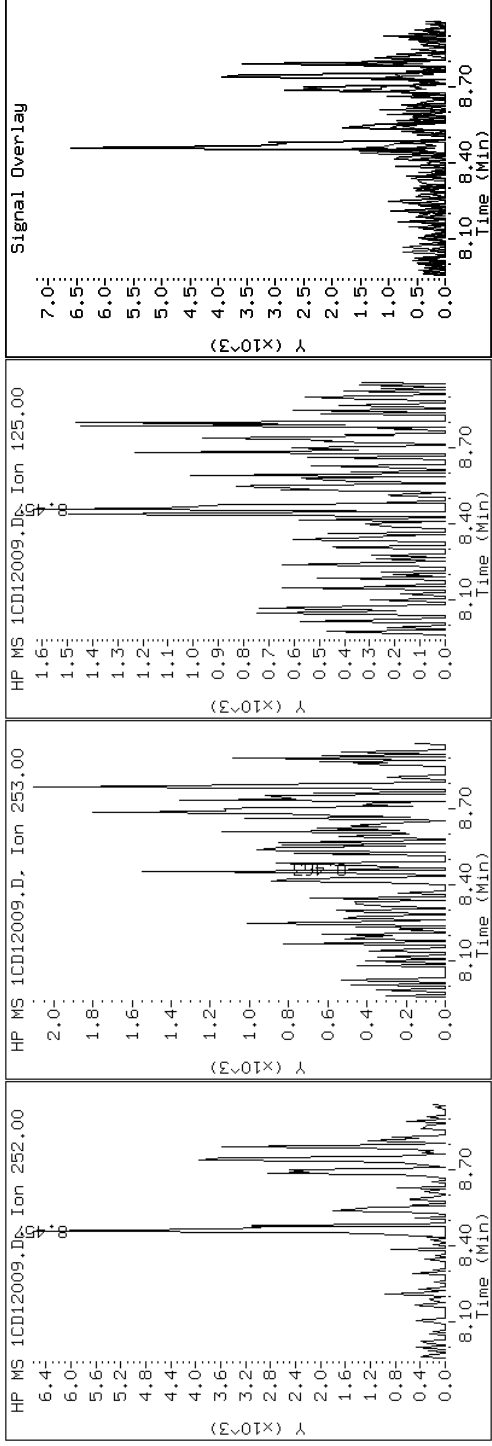
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

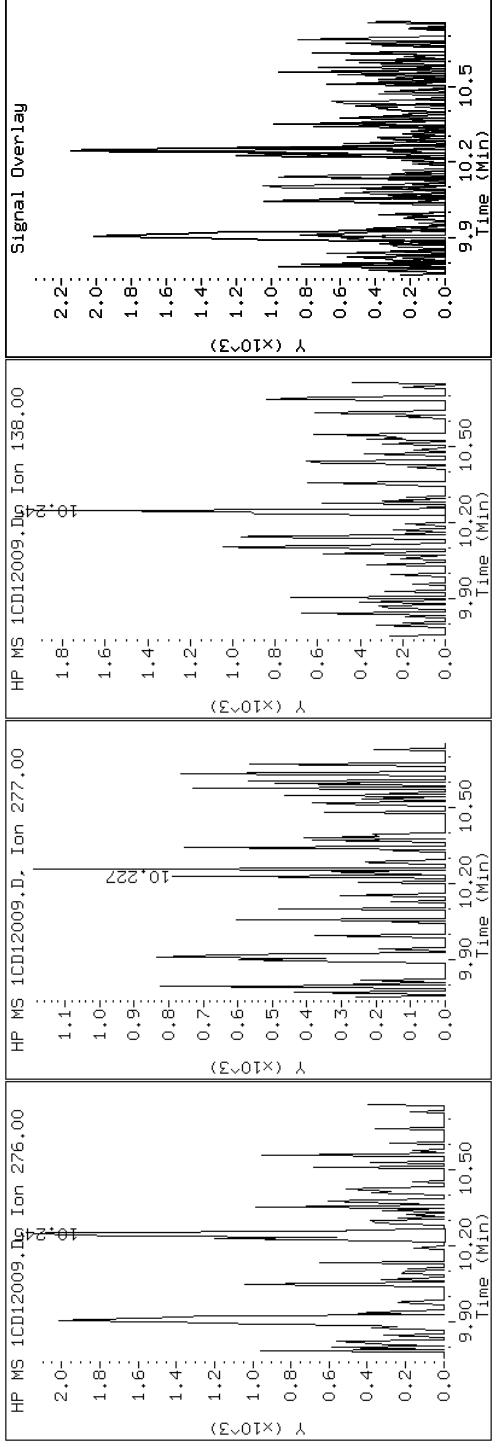
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

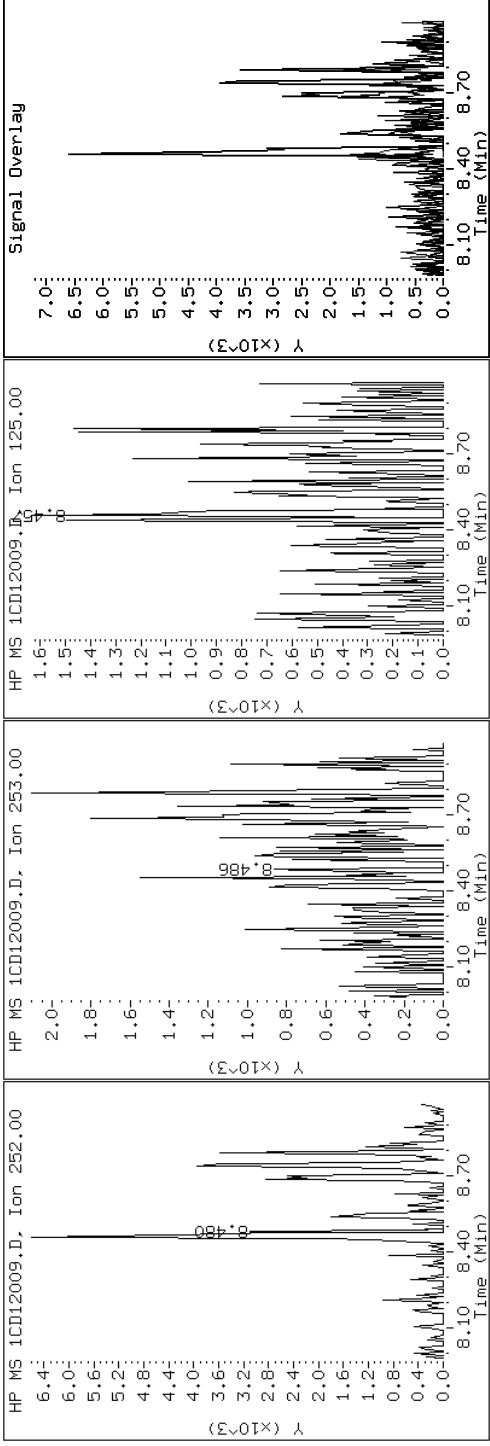
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

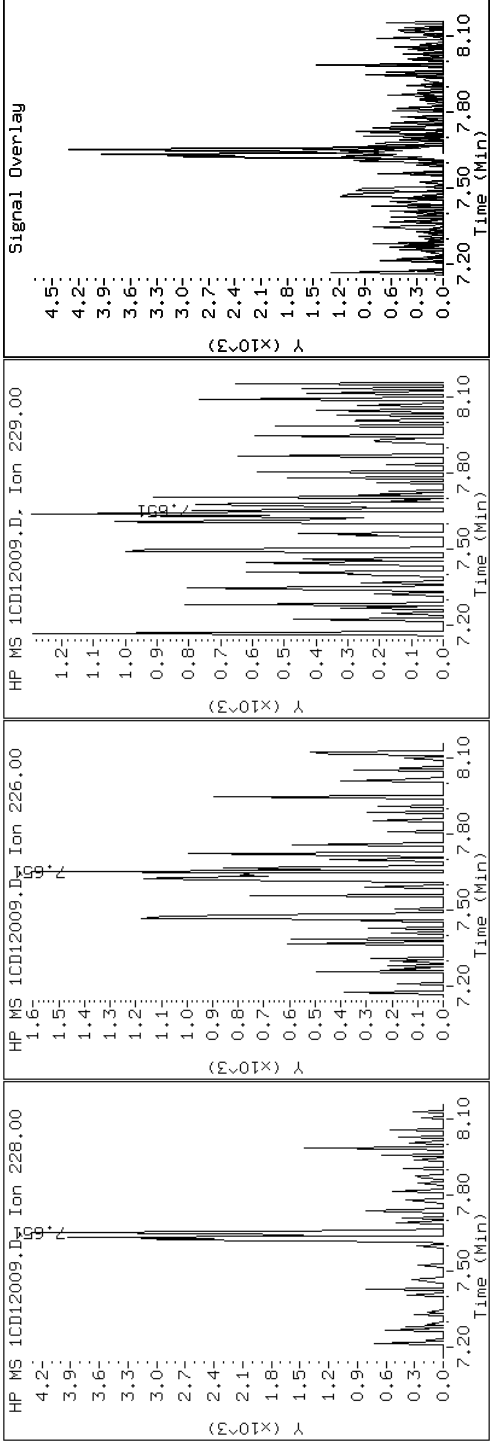
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

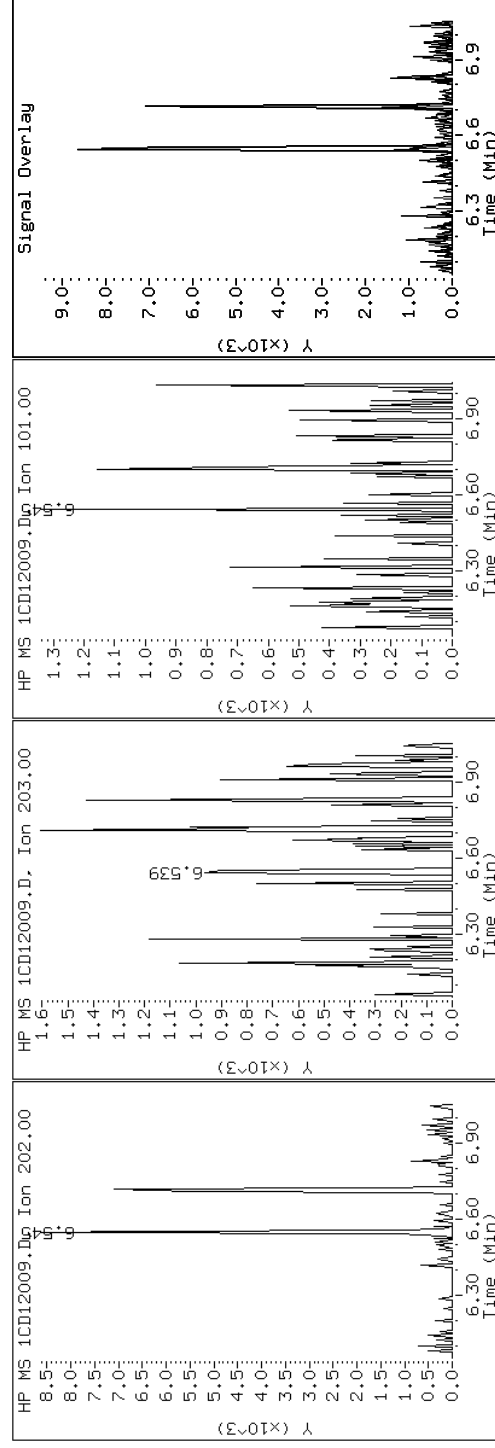
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

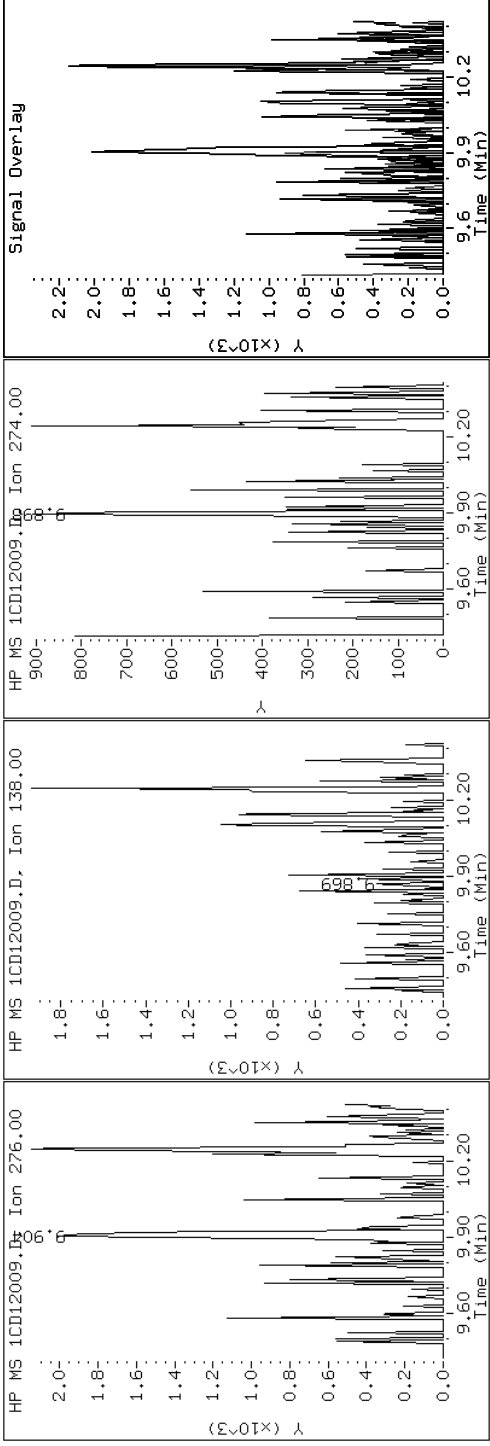
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

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



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

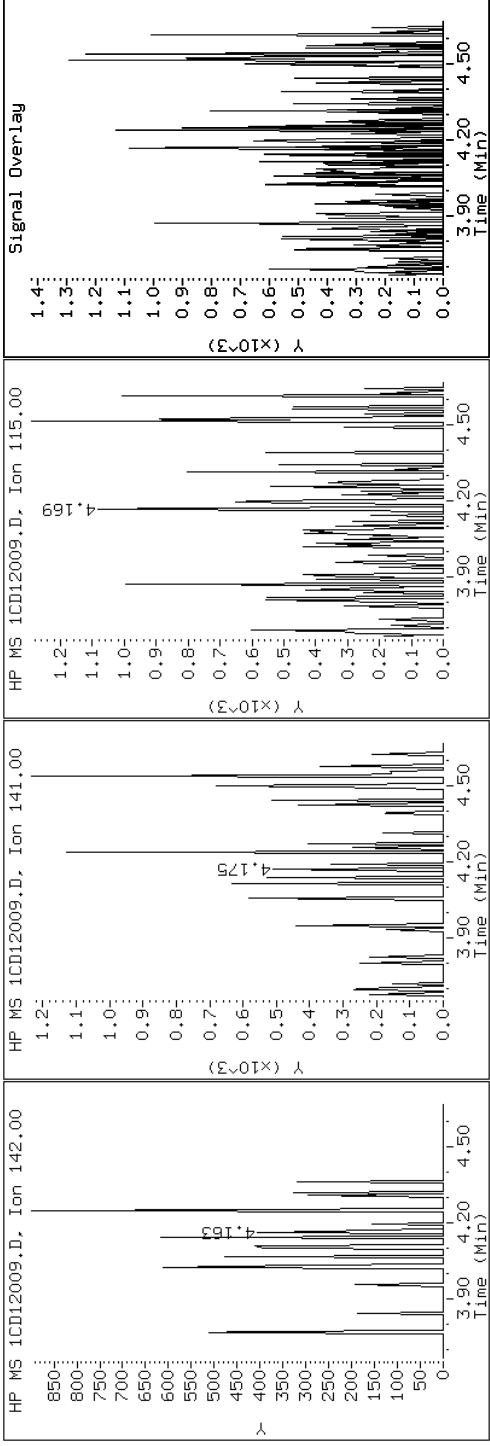
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

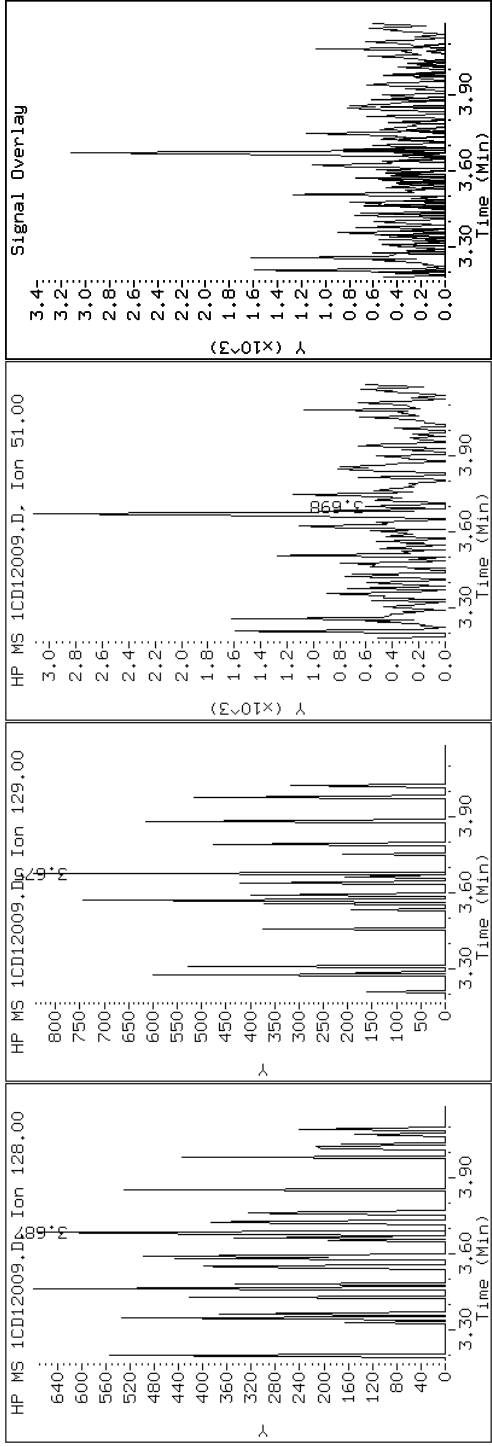
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CD12009.D

Date: 12-APR-2013 13:34

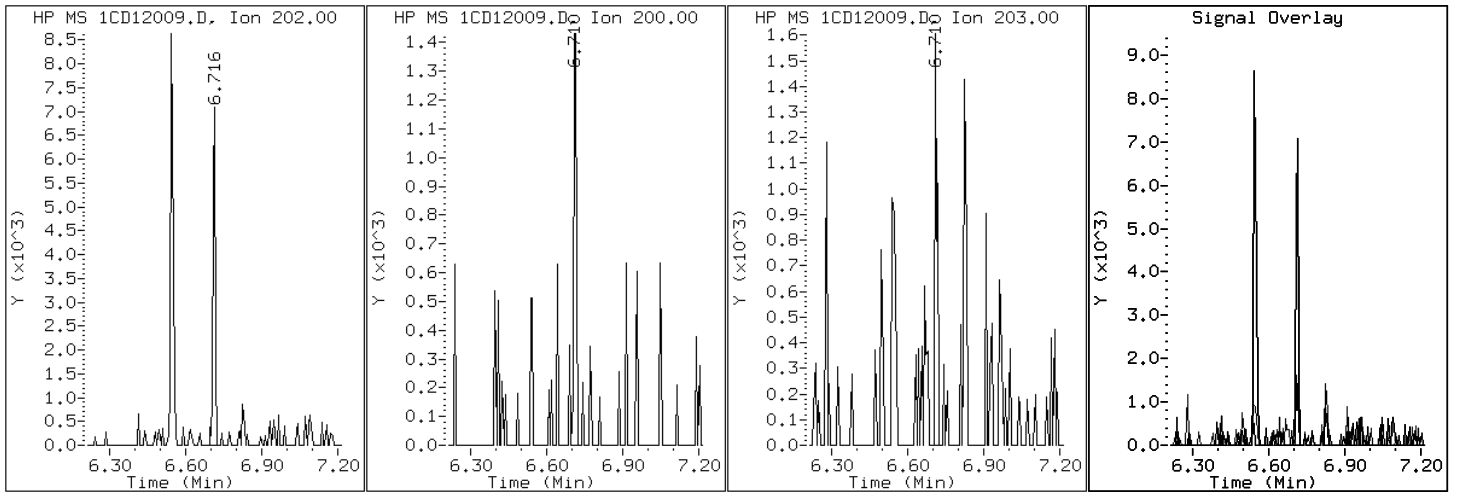
Client ID: CV0741A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-18-a

Operator: SCC

16 Pyrene

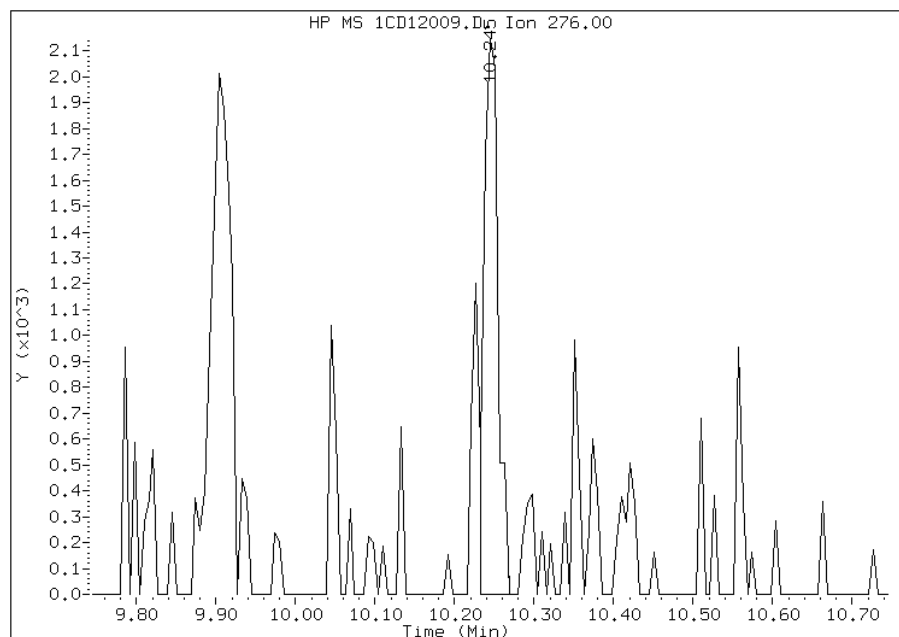


Manual Integration Report

Data File: 1CD12009.D
Inj. Date and Time: 12-APR-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV0741A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/15/2013

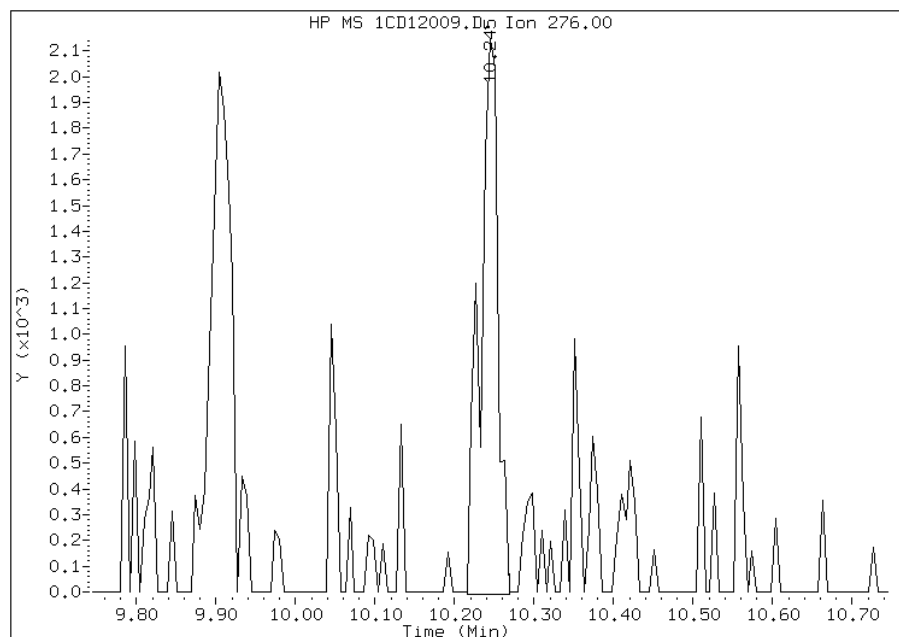
Processing Integration Results

RT: 10.24
Response: 2634
Amount: 0
Conc: 23



Manual Integration Results

RT: 10.24
Response: 3326
Amount: 0
Conc: 29



Manually Integrated By: cantins
Modification Date: 15-Apr-2013 10:35
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0741B-CS-SP Lab Sample ID: 680-89038-19
 Matrix: Solid Lab File ID: 1CD12010.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 14:00
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.45(g) Date Analyzed: 04/12/2013 13:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	12	J	60	7.5
120-12-7	Anthracene	13	U	13	6.3
56-55-3	Benzo[a]anthracene	12	U	12	5.8
50-32-8	Benzo[a]pyrene	28		16	7.8
205-99-2	Benzo[b]fluoranthene	35		18	9.1
191-24-2	Benzo[g,h,i]perylene	13	J	30	6.6
207-08-9	Benzo[k]fluoranthene	11	J	12	5.4
218-01-9	Chrysene	17		13	6.7
53-70-3	Dibenz(a,h)anthracene	30	U	30	6.1
206-44-0	Fluoranthene	32		30	6.0
86-73-7	Fluorene	30	U	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	30	U	30	11
90-12-0	1-Methylnaphthalene	7.5	J	60	6.6
91-57-6	2-Methylnaphthalene	60	U	60	11
91-20-3	Naphthalene	6.9	J	60	6.6
85-01-8	Phenanthrene	12	U	12	5.8
129-00-0	Pyrene	13	J	30	5.5

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\1C041213.b\1CD12010.D
 Lab Smp Id: 680-89038-A-19-A Client Smp ID: CV0741B-CS-SP
 Inj Date : 12-APR-2013 13:52
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-19-a
 Misc Info : 680-89038-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.450	Weight Extracted
M	34.914	% 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		3.668	3.669	(1.000)	270551	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	187283	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.704	(1.000)	358038	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.951	(1.044)	40784	7.56844	752.6423
* 18 Chrysene-d12	240		7.633	7.639	(1.000)	433083	40.0000	
* 23 Perylene-d12	264		8.792	8.792	(1.000)	414988	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	507	0.06932	6.8939(Q)
4 1-Methylnaphthalene	142		4.168	4.169	(1.136)	350	0.07492	7.4506
5 Acenaphthylene	152		4.674	4.669	(0.983)	961	0.12110	12.0423(Q)
15 Fluoranthene	202		6.545	6.551	(1.149)	3680	0.31684	31.5077
16 Pyrene	202		6.715	6.716	(0.880)	1633	0.13254	13.1804
19 Chrysene	228		7.650	7.657	(1.002)	2033	0.16781	16.6875
20 Benzo(b)fluoranthene	252		8.456	8.457	(0.962)	3678	0.35090	34.8954
21 Benzo(k)fluoranthene	252		8.480	8.480	(0.965)	1265	0.10666	10.6065(Q)

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
22 Benzo(a)pyrene	252		8.739	8.739	(0.994)	3059	0.28234	28.0768
26 Benzo(g,h,i)perylene	276		10.244	10.256	(1.165)	1289	0.12693	12.6223(H)

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

Data File: 1CD12010.D

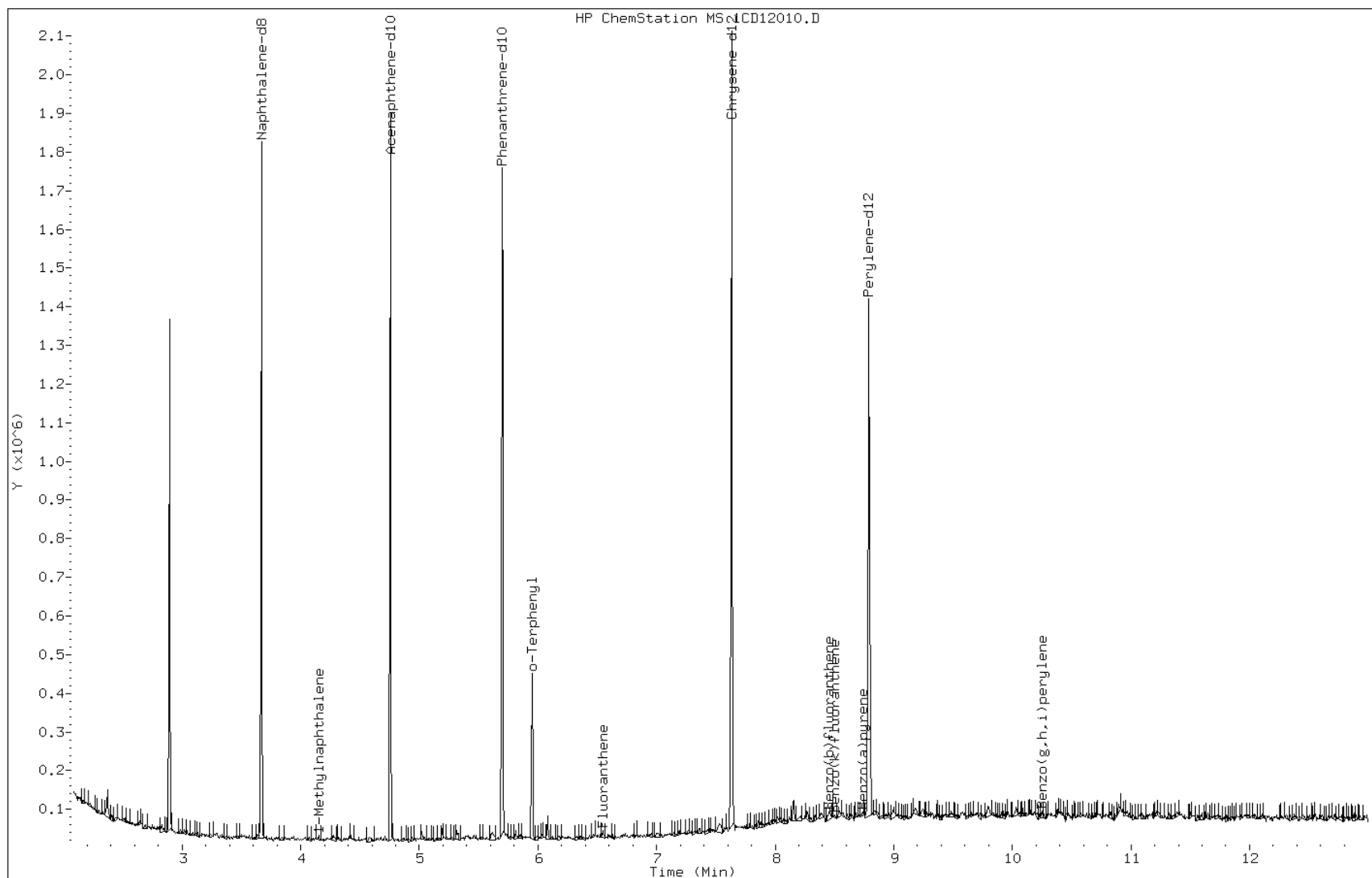
Date: 12-APR-2013 13:52

Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

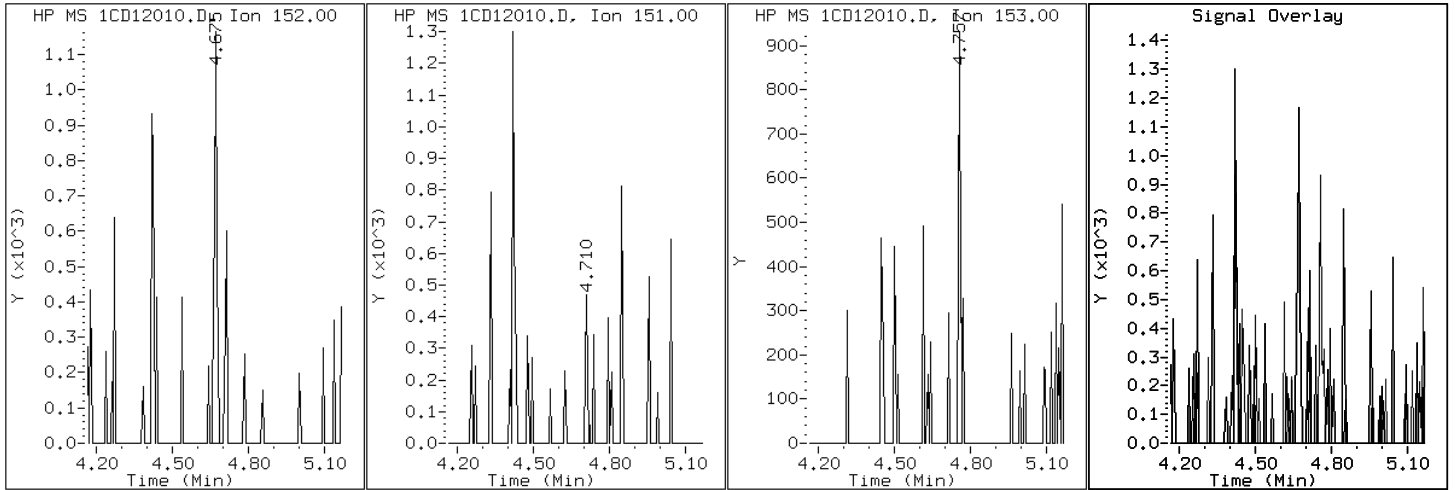
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

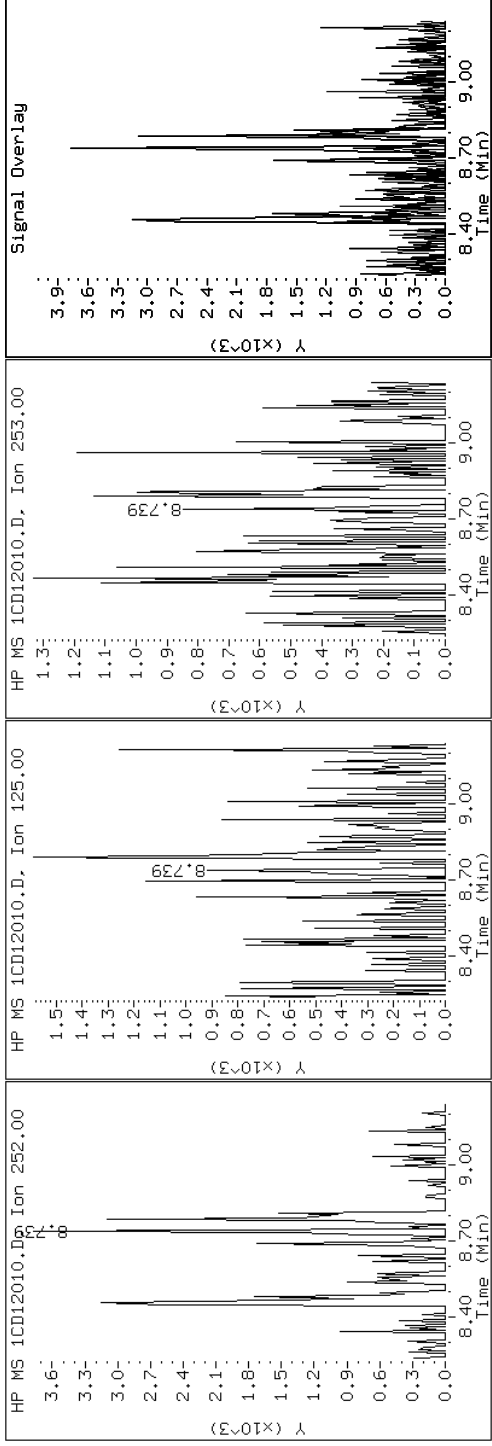
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

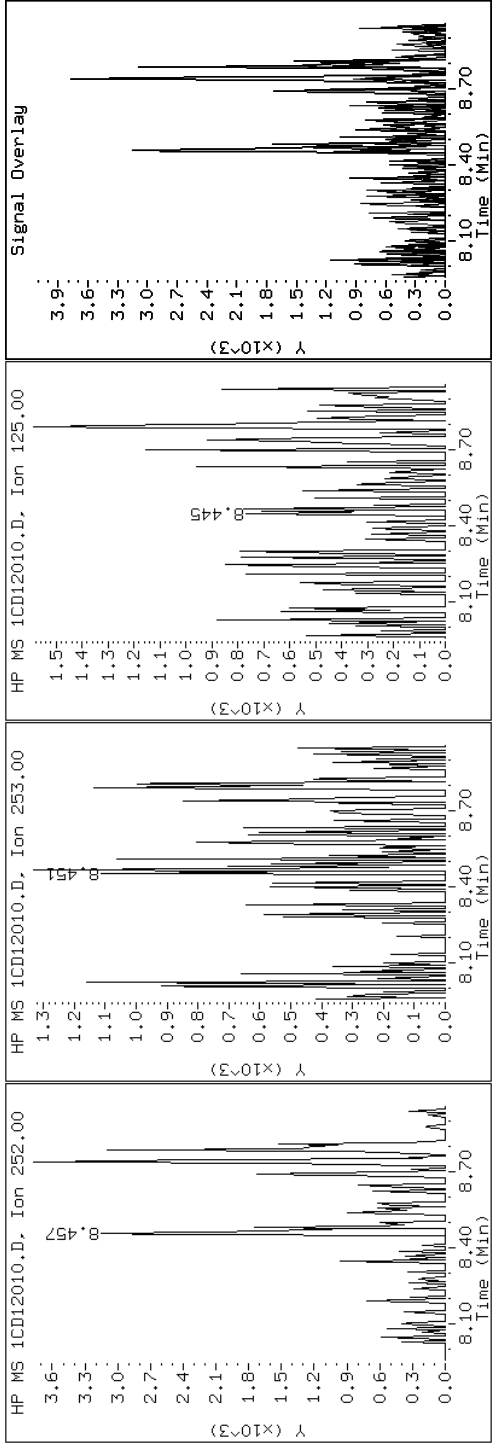
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

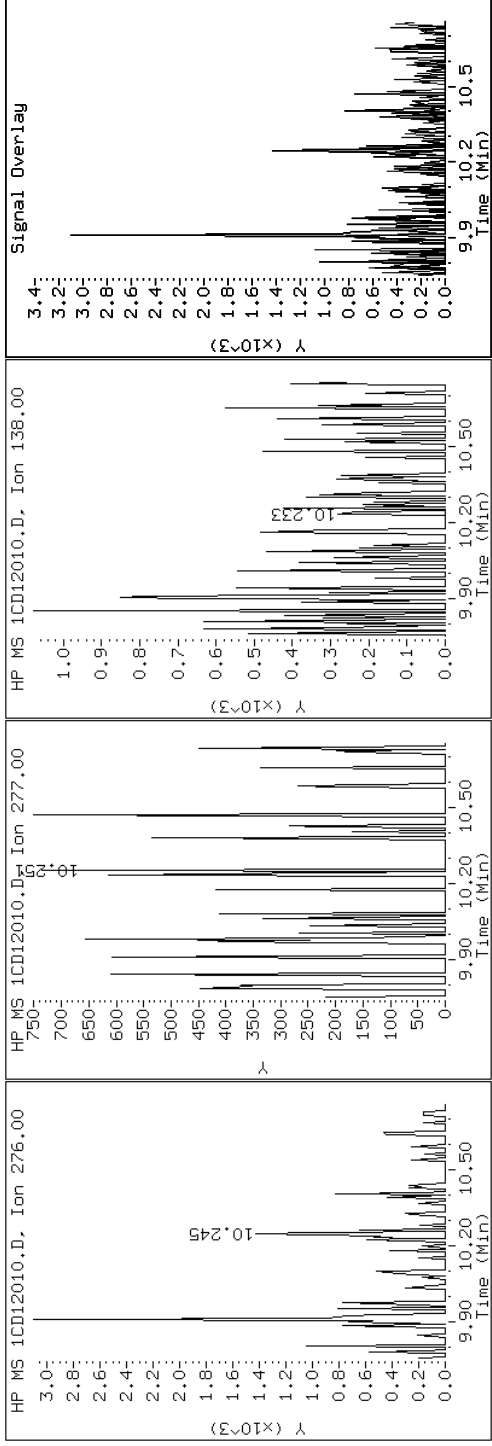
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

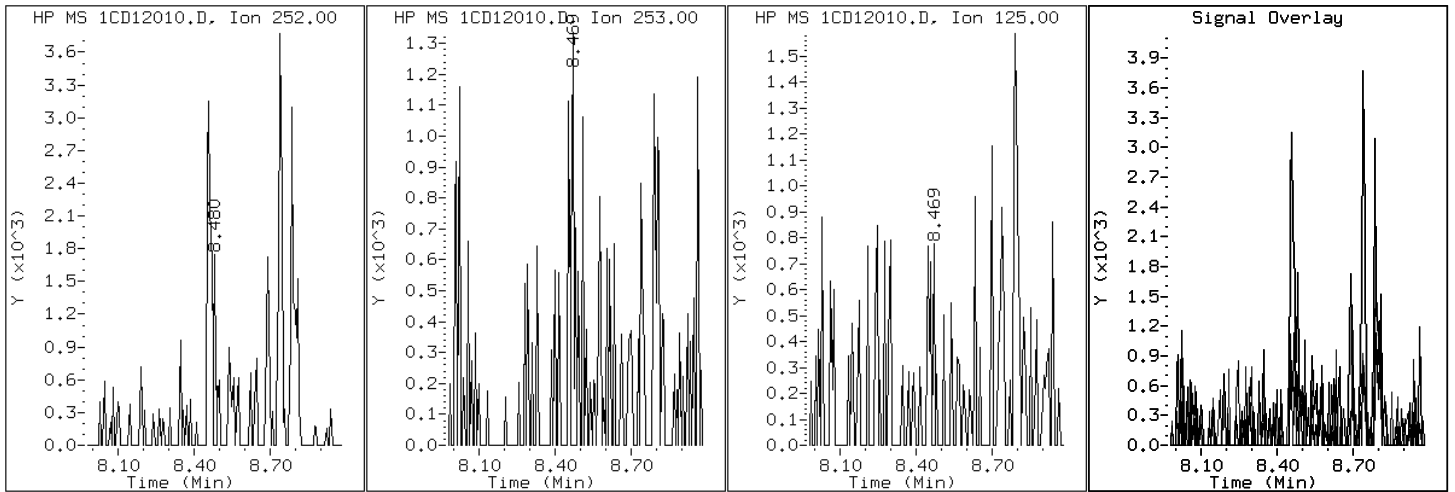
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

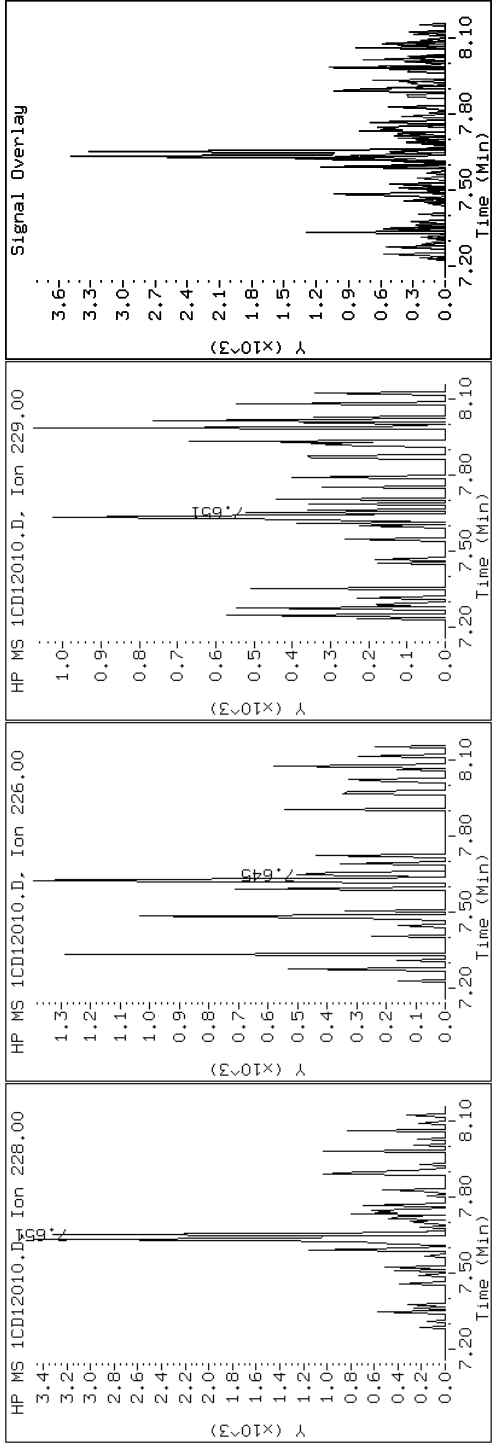
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

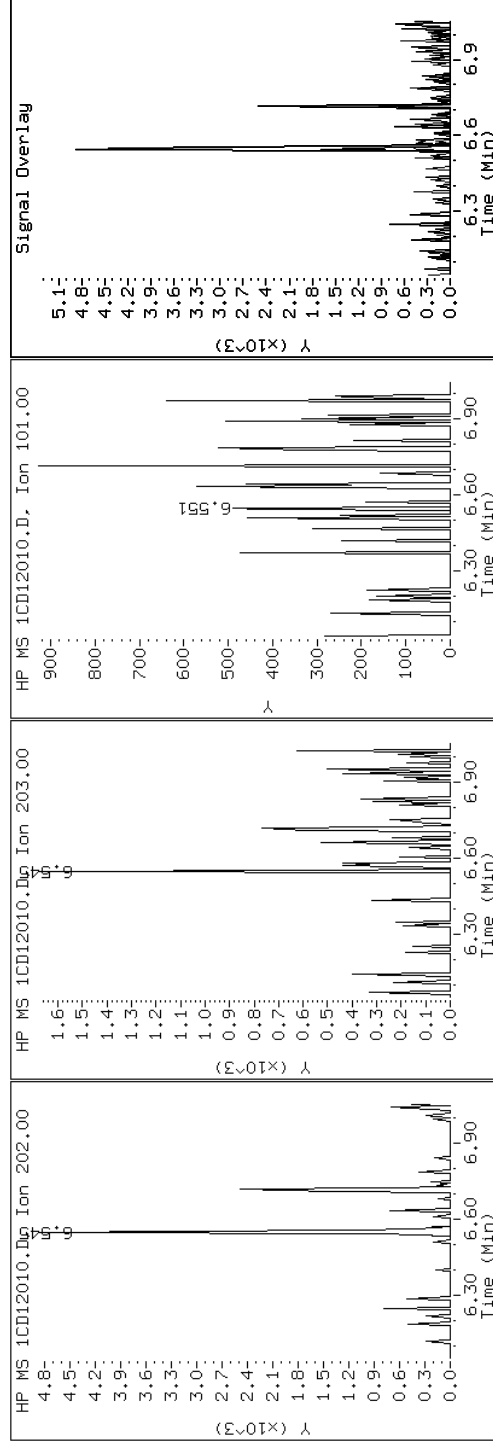
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

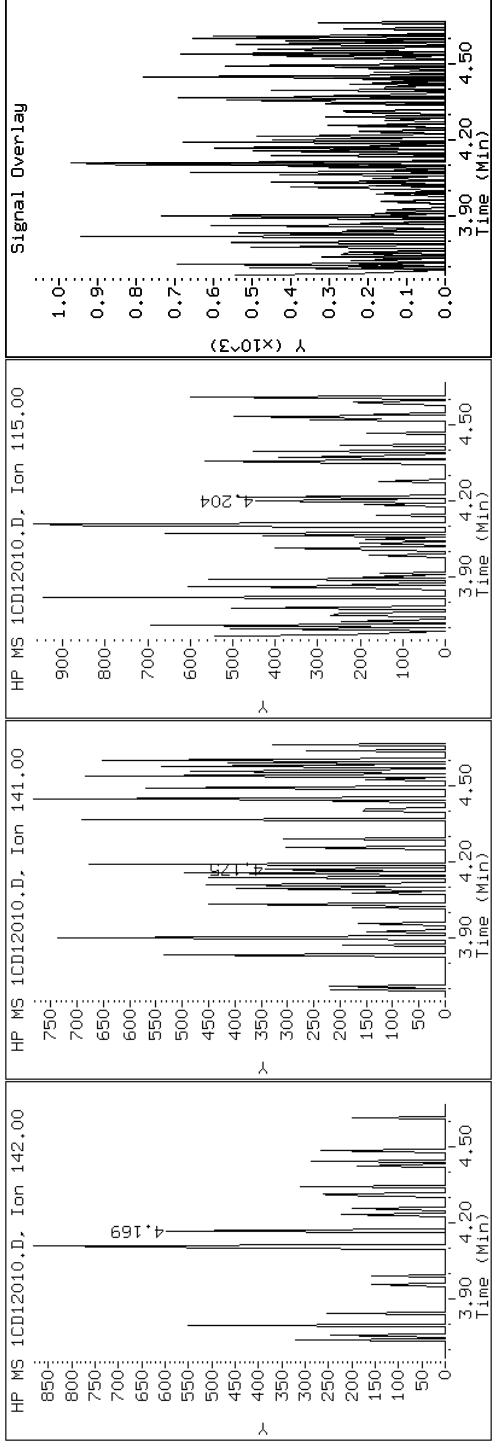
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

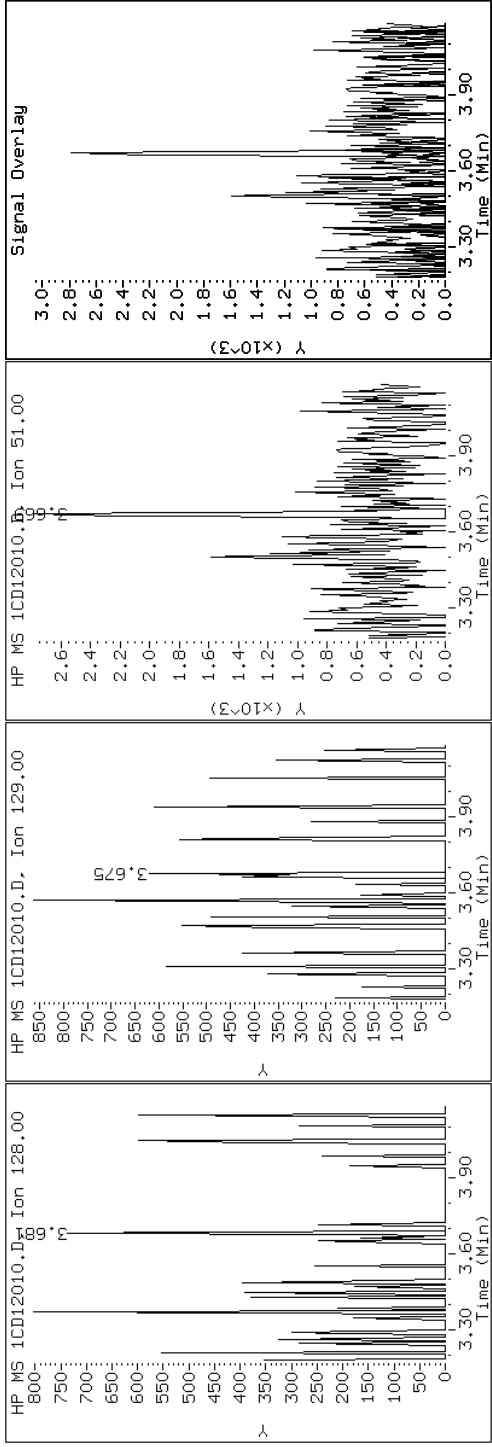
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CD12010.D

Date: 12-APR-2013 13:52

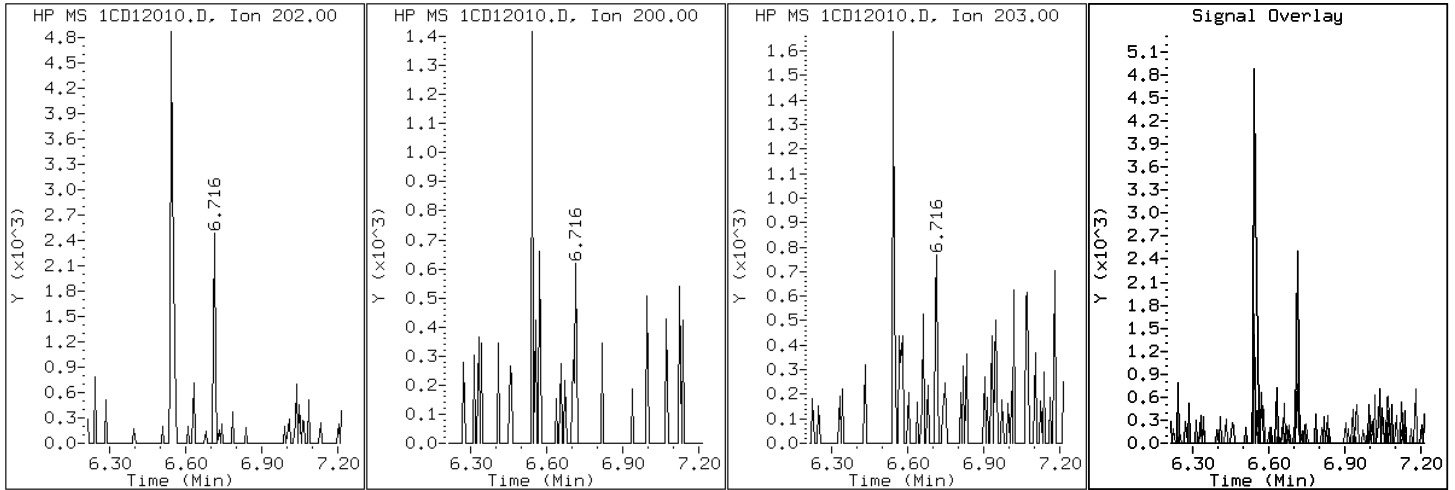
Client ID: CV0741B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-19-a

Operator: SCC

16 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV0741C-GS-SP Lab Sample ID: 680-89038-20
 Matrix: Solid Lab File ID: 1CD12011.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 14:05
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.16(g) Date Analyzed: 04/12/2013 14:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 48.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190	U	190	38
208-96-8	Acenaphthylene	21	J	76	9.5
120-12-7	Anthracene	16	U	16	8.0
56-55-3	Benzo[a]anthracene	45		15	7.4
50-32-8	Benzo[a]pyrene	23		20	9.9
205-99-2	Benzo[b]fluoranthene	51		23	12
191-24-2	Benzo[g,h,i]perylene	50		38	8.4
207-08-9	Benzo[k]fluoranthene	21		15	6.9
218-01-9	Chrysene	33		17	8.6
53-70-3	Dibenz(a,h)anthracene	38	U	38	7.8
206-44-0	Fluoranthene	31	J	38	7.6
86-73-7	Fluorene	38	U	38	7.8
193-39-5	Indeno[1,2,3-cd]pyrene	38	U	38	14
90-12-0	1-Methylnaphthalene	76	U	76	8.4
91-57-6	2-Methylnaphthalene	76	U	76	14
91-20-3	Naphthalene	19	J	76	8.4
85-01-8	Phenanthrene	15	U	15	7.4
129-00-0	Pyrene	18	J	38	7.1

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\1C041213.b\1CD12011.D
 Lab Smp Id: 680-89038-A-20-A Client Smp ID: CV0741C-GS-SP
 Inj Date : 12-APR-2013 14:10
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-20-a
 Misc Info : 680-89038-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	48.175	% 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		3.669	3.669	(1.000)	272272	40.0000		
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	197539	40.0000		
* 10 Phenanthrene-d10	188		5.698	5.704	(1.000)	357057	40.0000		
\$ 14 o-Terphenyl	230		5.951	5.951	(1.044)	41082	7.63773	972.1371	
* 18 Chrysene-d12	240		7.633	7.639	(1.000)	425869	40.0000		
* 23 Perylene-d12	264		8.792	8.792	(1.000)	445806	40.0000		
2 Naphthalene	128		3.686	3.680	(1.005)	1083	0.14715	18.7291	
5 Acenaphthylene	152		4.669	4.669	(0.981)	1408	0.16821	21.4099	
13 Carbazole	167		5.857	5.857	(1.028)	990	0.10255	13.0522(Q)	
15 Fluoranthene	202		6.551	6.551	(1.150)	2837	0.24493	31.1746	
16 Pyrene	202		6.715	6.716	(0.880)	1706	0.14081	17.9225	
17 Benzo(a)anthracene	228		7.627	7.627	(0.999)	4274	0.35490	45.1723	
19 Chrysene	228		7.651	7.657	(1.002)	3073	0.25795	32.8317(MH)	
20 Benzo(b)fluoranthene	252		8.462	8.457	(0.963)	4519	0.40133	51.0822	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
21 Benzo(k)fluoranthene	252	8.480	8.480	(0.965)	2066	0.16215	20.6387(Q)
22 Benzo(a)pyrene	252	8.739	8.739	(0.994)	2133	0.18326	23.3254
26 Benzo(g,h,i)perylene	276	10.245	10.256	(1.165)	4268	0.39122	49.7947

QC Flag Legend

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

Data File: 1CD12011.D

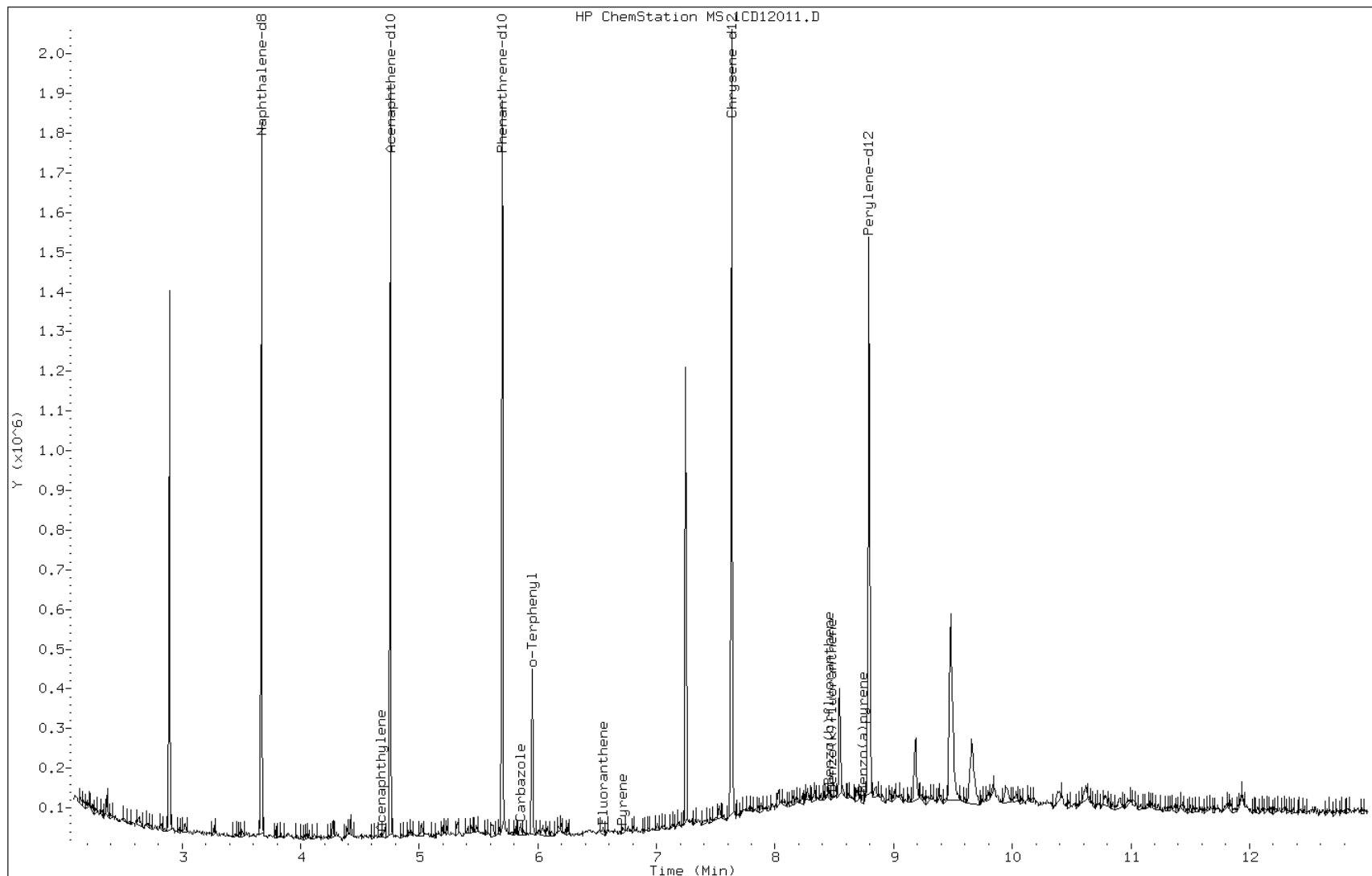
Date: 12-APR-2013 14:10

Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

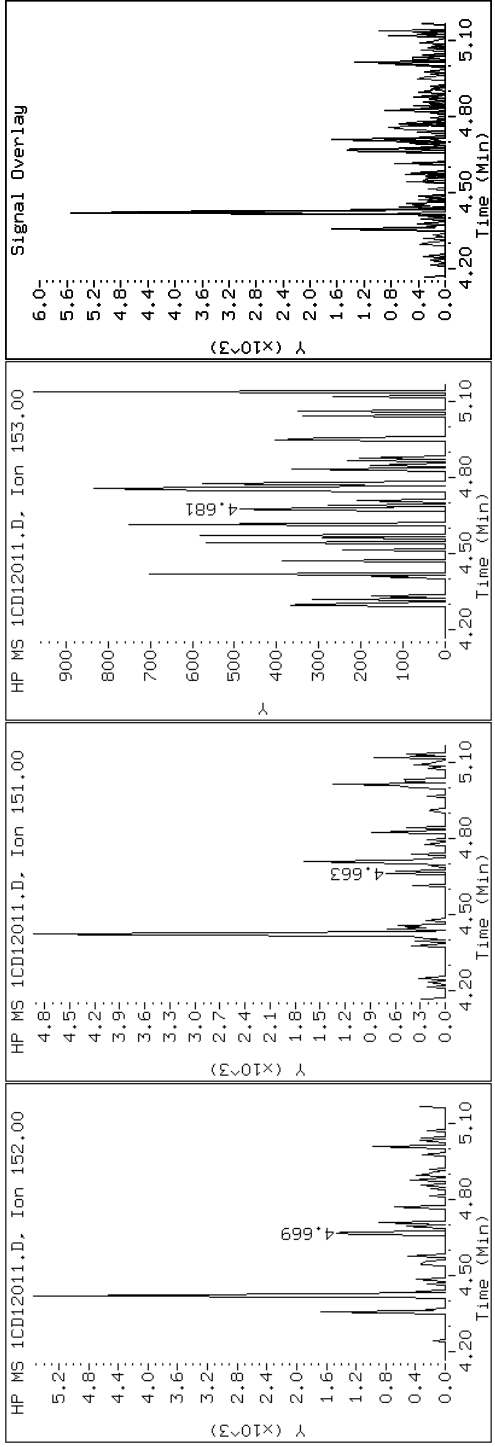
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

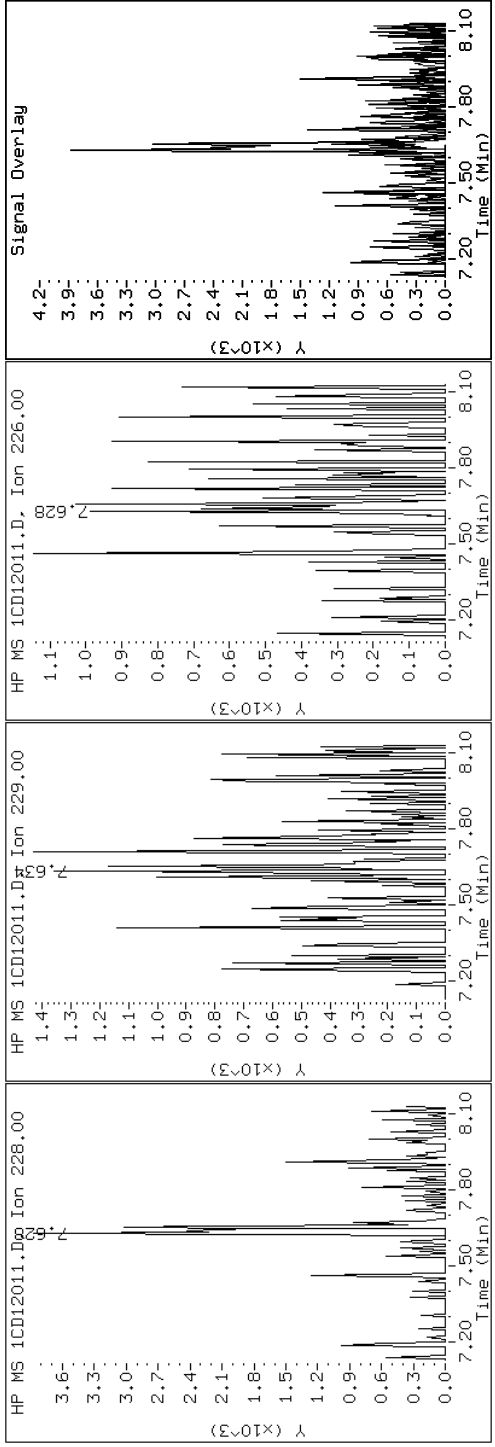
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

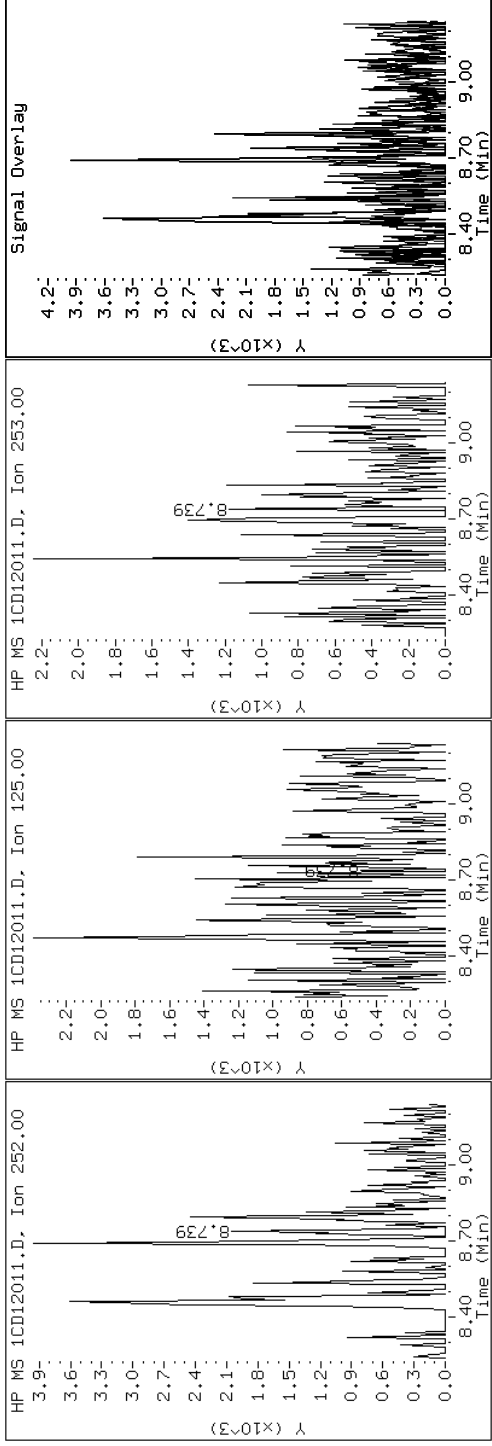
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

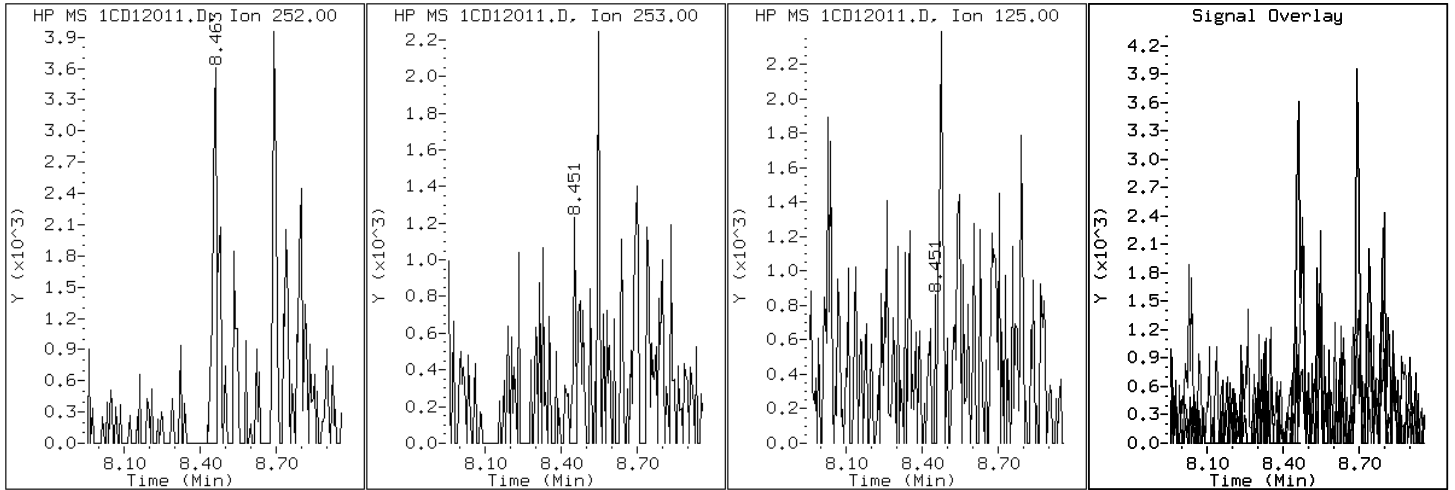
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

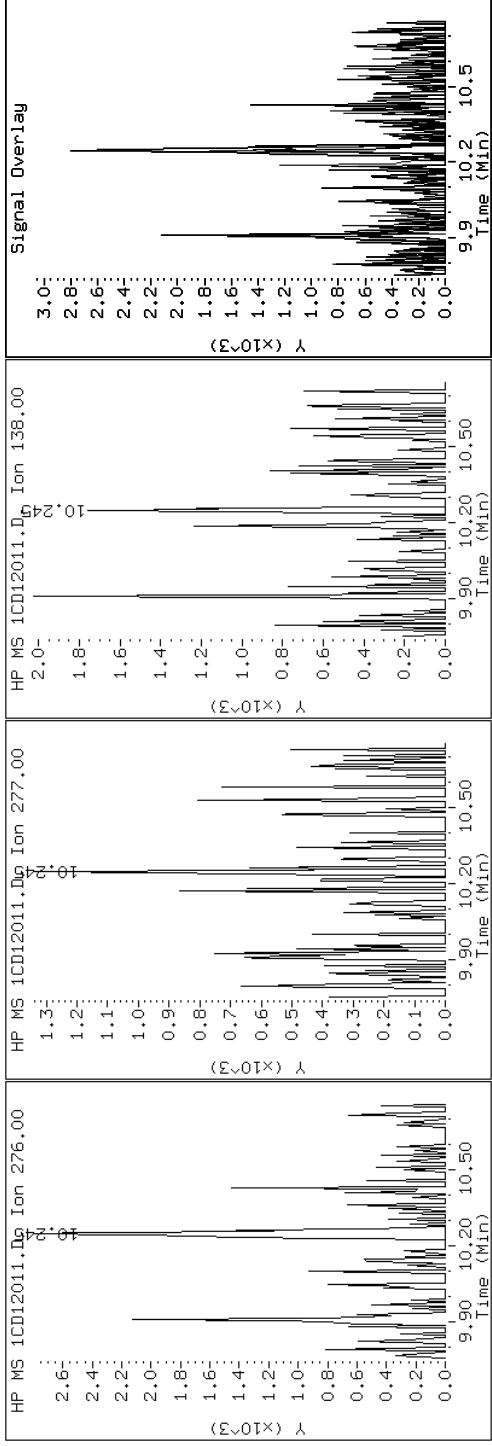
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

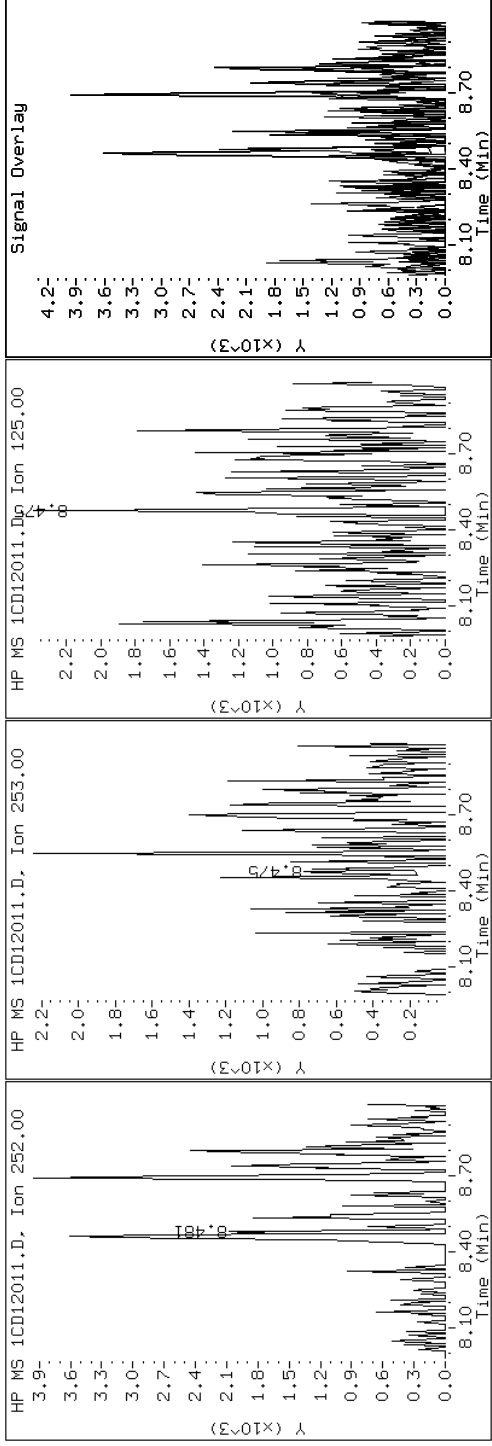
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

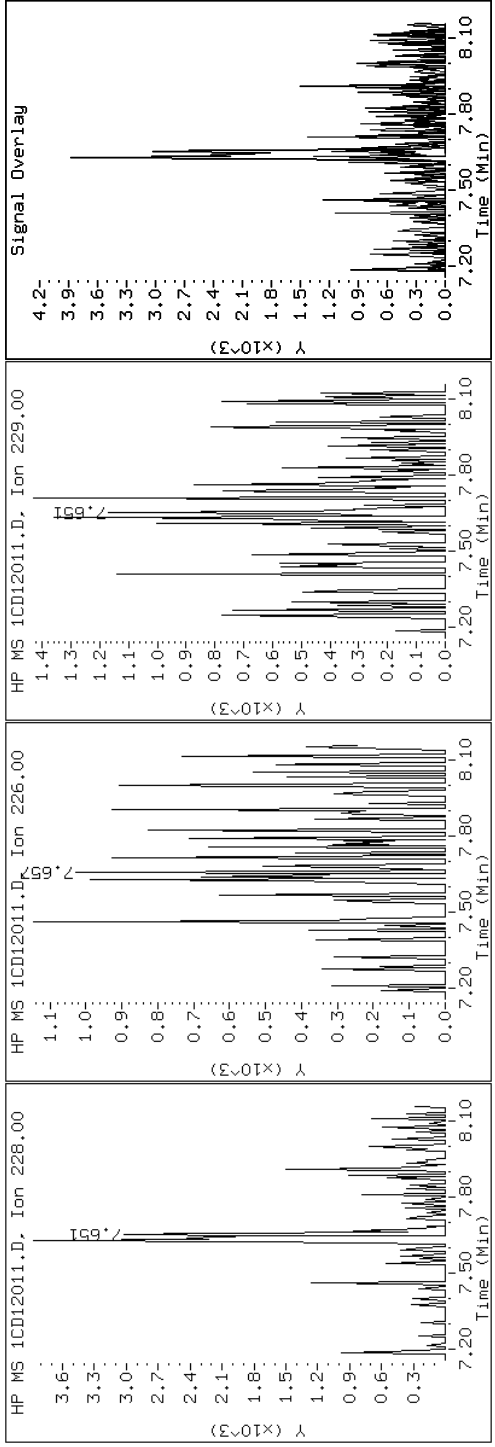
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

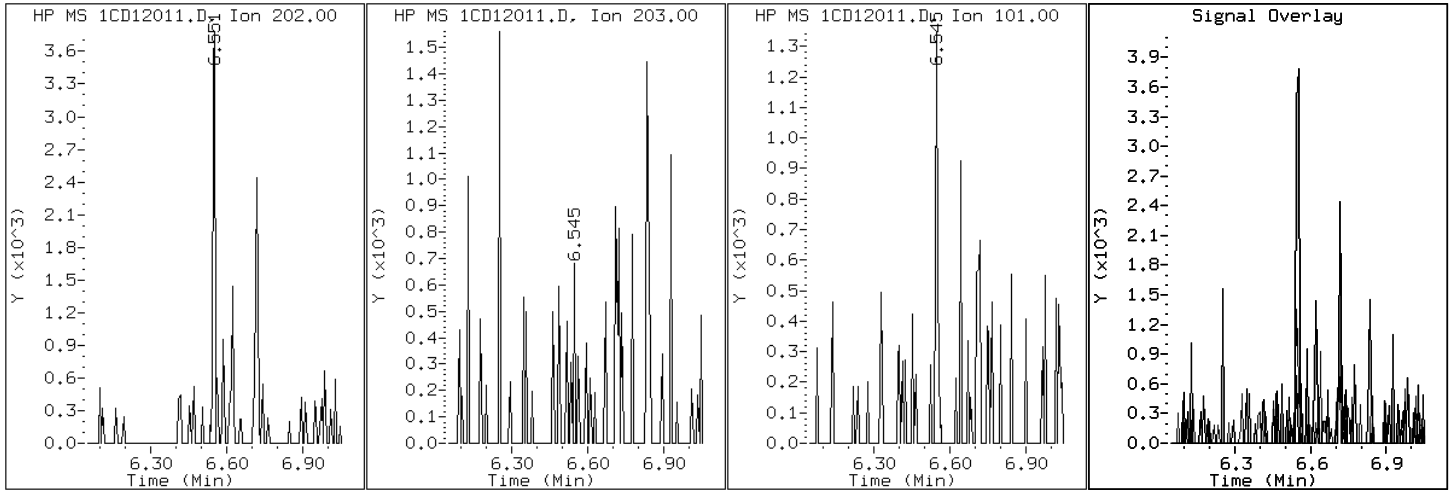
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

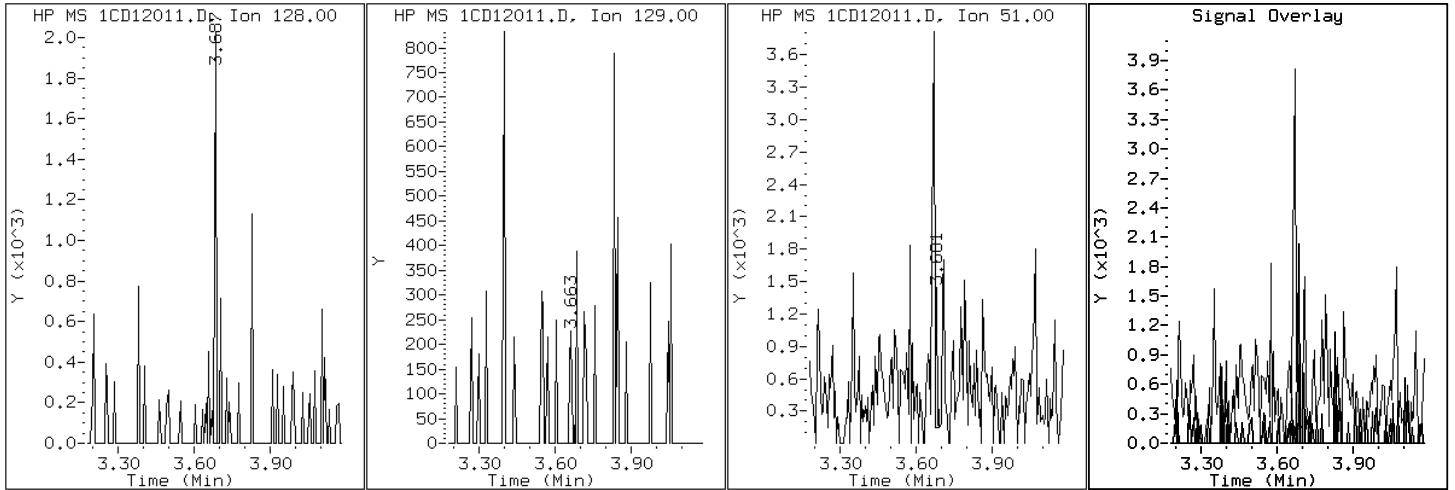
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CD12011.D

Date: 12-APR-2013 14:10

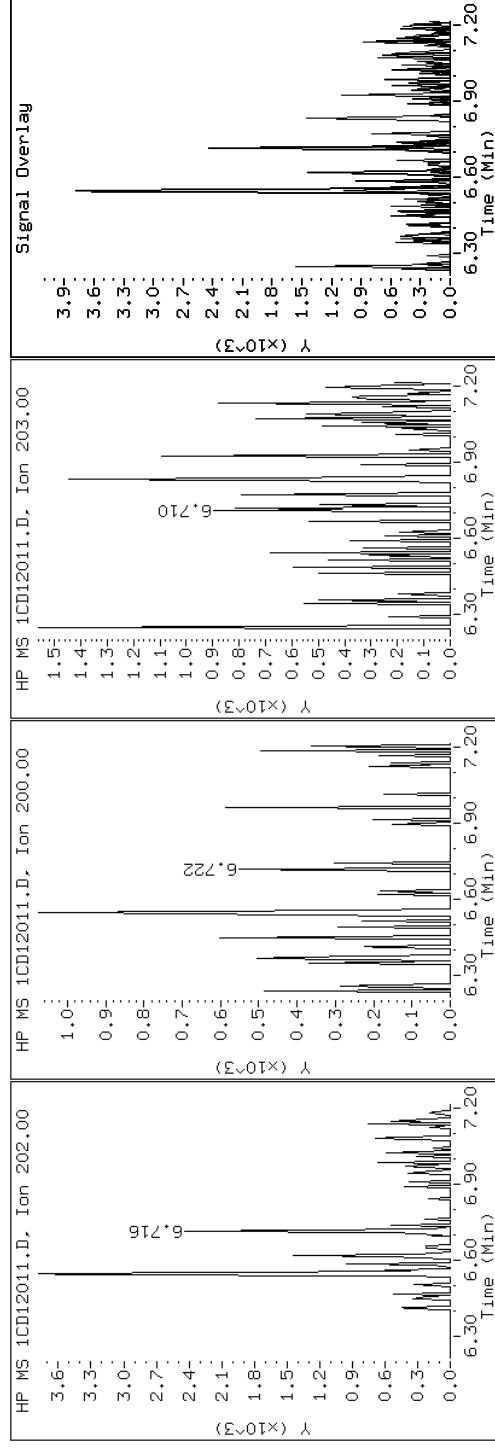
Client ID: CV0741C-GS-SP

Instrument: BSMC5973.i

Sample Info: 680-89038-a-20-a

Operator: SCC

16 Pyrene

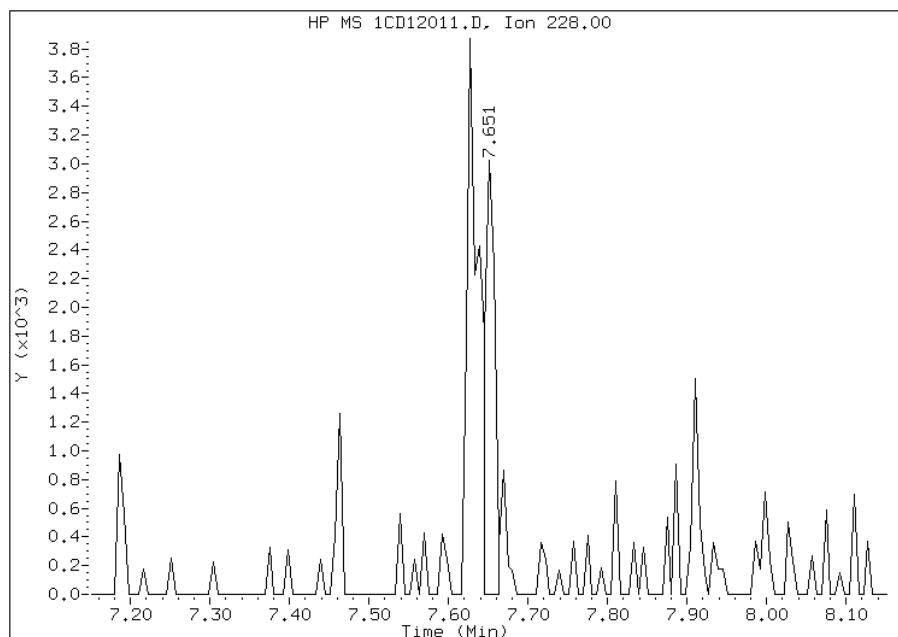


Manual Integration Report

Data File: 1CD12011.D
Inj. Date and Time: 12-APR-2013 14:10
Instrument ID: BSMC5973.i
Client ID: CV0741C-GS-SP
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/15/2013

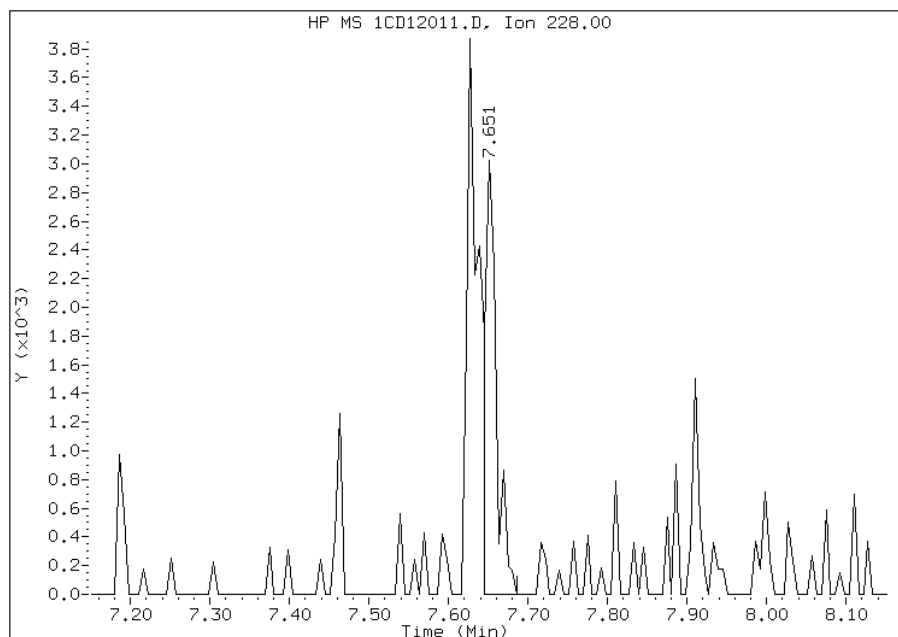
Processing Integration Results

RT: 7.65
Response: 2643
Amount: 0
Conc: 28



Manual Integration Results

RT: 7.65
Response: 3073
Amount: 0
Conc: 33



Manually Integrated By: cantins
Modification Date: 15-Apr-2013 10:39
Manual Integration Reason: Baseline Event

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89038-1 Analy Batch No.: 136370

SDG No.: _____

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave	1.0813			0.0000	3.1		15.0				
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231		0.0000				0.9998		0.9900	
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907		0.0000	11.4		15.0				
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949		0.0000	10.6		15.0				
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214		0.0000	7.4		15.0				
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999		0.0000	12.7		15.0				
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102	0.0000				0.9997		0.9900	
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612		0.0000	5.3		15.0				
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815		0.0000	12.1		15.0				
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976		0.0000	7.0		15.0				
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380		0.0000	7.5		15.0				
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311		0.0000				0.9998		0.9900	
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190		0.0000	6.8		15.0				
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103		0.0000	13.0		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.: 680-89038-1 Analy Batch No.: 136370

SDG No.: _____

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89038-1 Analy Batch No.: 136370

SDG No.: _____

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	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.: 680-89038-1 Analy Batch No.: 136370

SDG No.: _____

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

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	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

<p>Ave = Average ISTD Lin = Linear ISTD LinF = Linear ISTD forced zero Qua = Quadratic ISTD</p>

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11003.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 11-APR-2013 11:56
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 3 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136		3.675	3.675	(1.000)	245713	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	179699	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	320372	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	97236	20.0000	19.0180
* 18 Chrysene-d12	240		7.645	7.645	(1.000)	410945	40.0000	
* 23 Perylene-d12	264		8.804	8.804	(1.000)	438804	40.0000	
2 Naphthalene	128		3.686	3.686	(1.003)	132678	20.0000	19.9755
3 2-Methylnaphthalene	142		4.116	4.116	(1.120)	87061	20.0000	21.0586
4 1-Methylnaphthalene	142		4.175	4.175	(1.136)	85663	20.0000	20.1908
5 Acenaphthylene	152		4.674	4.674	(0.981)	156488	20.0000	20.5512
7 Acenaphthene	154		4.780	4.780	(1.004)	90964	20.0000	19.3885
9 Fluorene	166		5.104	5.104	(1.072)	113606	20.0000	19.4543
11 Phenanthrene	178		5.721	5.721	(1.003)	182675	20.0000	17.6453
12 Anthracene	178		5.757	5.757	(1.009)	193854	20.0000	20.8428
13 Carbazole	167		5.863	5.863	(1.028)	158666	20.0000	18.3169
15 Fluoranthene	202		6.557	6.557	(1.150)	214080	20.0000	20.5986
16 Pyrene	202		6.721	6.721	(0.879)	229647	20.0000	19.6431
17 Benzo(a)anthracene	228		7.633	7.633	(0.998)	233188	20.0000	20.0156
19 Chrysene	228		7.663	7.663	(1.002)	226221	20.0000	19.6785
20 Benzo(b)fluoranthene	252		8.468	8.468	(0.962)	243941	20.0000	22.0102
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.964)	229890	20.0000	18.3309
22 Benzo(a)pyrene	252		8.751	8.751	(0.994)	213852	20.0000	18.6665
24 Indeno(1,2,3-cd)pyrene	276		9.927	9.927	(1.128)	223617	20.0000	19.9538(M)
25 Dibenzo(a,h)anthracene	278		9.945	9.945	(1.130)	218275	20.0000	19.6244
26 Benzo(g,h,i)perylene	276		10.262	10.262	(1.166)	215845	20.0000	20.1007

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11003.D

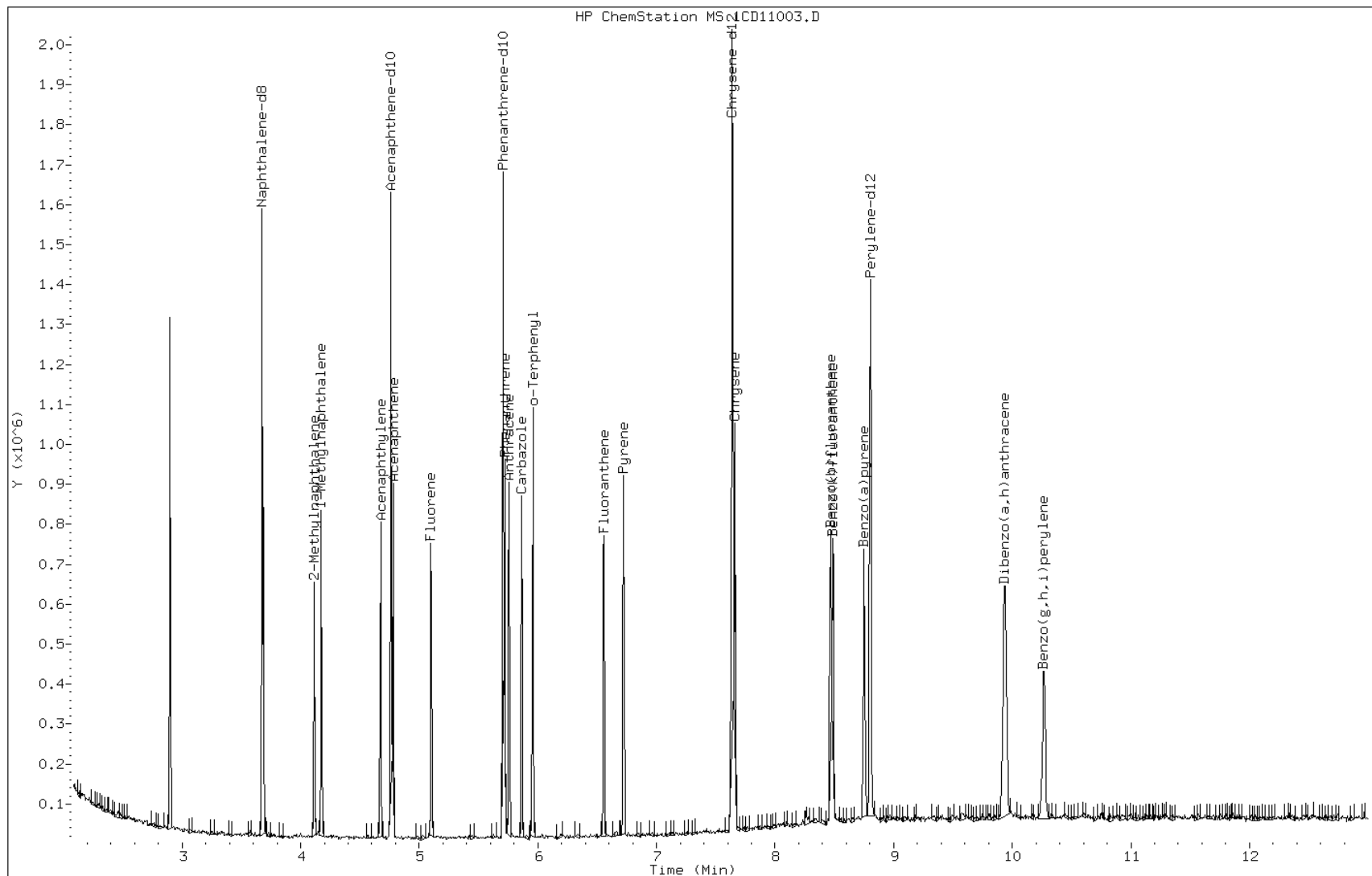
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

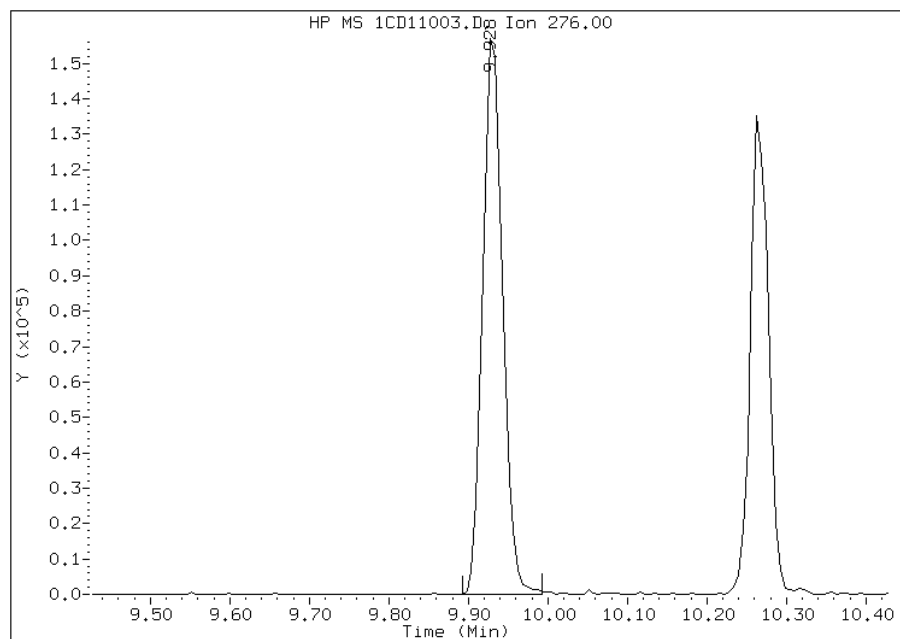


Manual Integration Report

Data File: 1CD11003.D
Inj. Date and Time: 11-APR-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

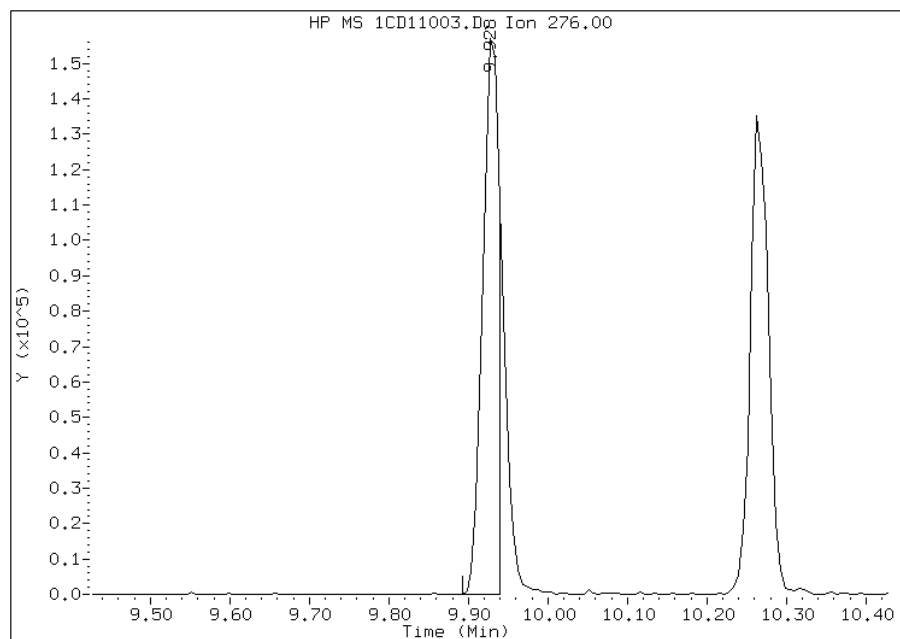
Processing Integration Results

RT: 9.93
Response: 271031
Amount: 23
Conc: 23



Manual Integration Results

RT: 9.93
Response: 223617
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 12:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D
 Lab Smp Id: IC-1531396
 Inj Date : 11-APR-2013 12:35
 Operator : SCC
 Smp Info : IC-1531396
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.D
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.674	3.674	(1.000)	247033	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	162858	40.0000	
* 10 Phenanthrene-d10	188		5.721	5.721	(1.000)	320053	40.0000	(H)
\$ 14 o-Terphenyl	230		5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
* 18 Chrysene-d12	240		7.656	7.656	(1.000)	367836	40.0000	
* 23 Perylene-d12	264		8.827	8.827	(1.000)	403046	40.0000	
2 Naphthalene	128		3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
3 2-Methylnaphthalene	142		4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
4 1-Methylnaphthalene	142		4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
5 Acenaphthylene	152		4.680	4.680	(0.983)	1337	0.20000	0.1937
7 Acenaphthene	154		4.786	4.786	(1.005)	800	0.20000	0.0720
9 Fluorene	166		5.110	5.110	(1.073)	1213	0.20000	0.2291
11 Phenanthrene	178		5.733	5.733	(1.002)	3451	0.20000	0.3336
12 Anthracene	178		5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
13 Carbazole	167		5.880	5.880	(1.028)	2121	0.20000	0.2450
15 Fluoranthene	202		6.562	6.562	(1.147)	1789	0.20000	0.1723
16 Pyrene	202		6.733	6.733	(0.879)	2372	0.20000	0.2266
17 Benzo(a)anthracene	228		7.651	7.651	(0.999)	3412	0.20000	0.2031
19 Chrysene	228		7.674	7.674	(1.002)	2159	0.20000	0.2098
20 Benzo(b)fluoranthene	252		8.498	8.498	(0.963)	1499	0.20000	0.1472
21 Benzo(k)fluoranthene	252		8.509	8.509	(0.964)	2208	0.20000	0.1916
22 Benzo(a)pyrene	252		8.774	8.774	(0.994)	2188	0.20000	0.2079
24 Indeno(1,2,3-cd)pyrene	276		9.956	9.956	(1.128)	2840	0.20000	0.2759
25 Dibenzo(a,h)anthracene	278		9.980	9.980	(1.131)	2717	0.20000	0.2659
26 Benzo(g,h,i)perylene	276		10.286	10.286	(1.165)	1529	0.20000	0.1550(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: 1CD11004.D

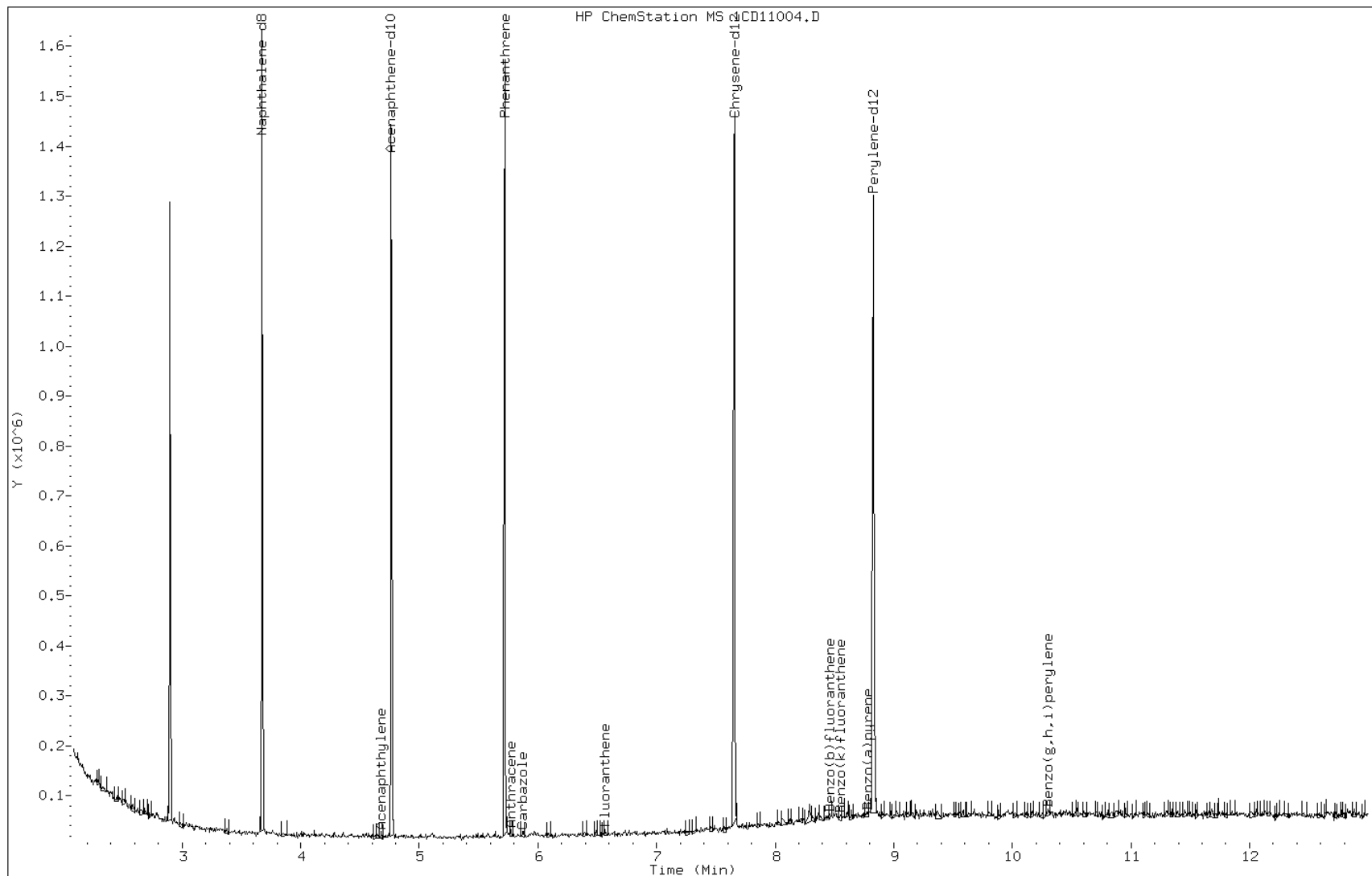
Date: 11-APR-2013 12:35

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC

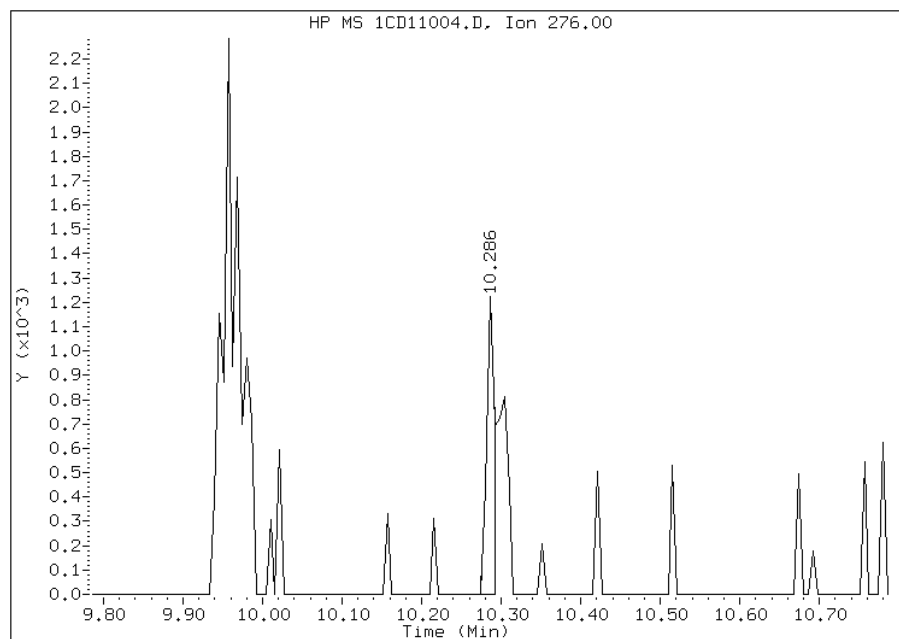


Manual Integration Report

Data File: 1CD11004.D
Inj. Date and Time: 11-APR-2013 12:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

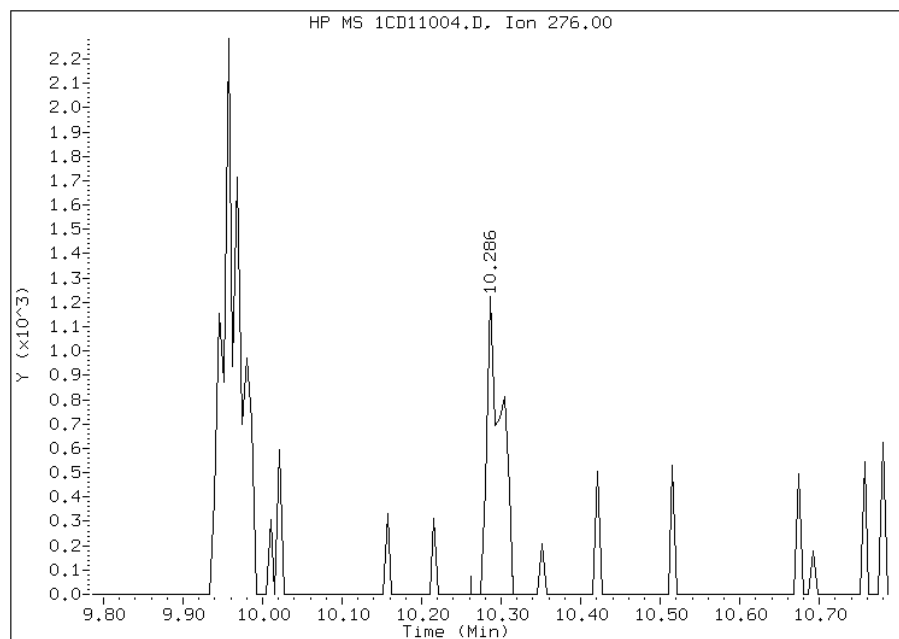
Processing Integration Results

RT: 10.29
Response: 832
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.29
Response: 1529
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D
 Lab Smp Id: IC-1531398
 Inj Date : 11-APR-2013 12:53
 Operator : SCC
 Smp Info : IC-1531398
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.D
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
* 23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

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

Data File: 1CD11005.D

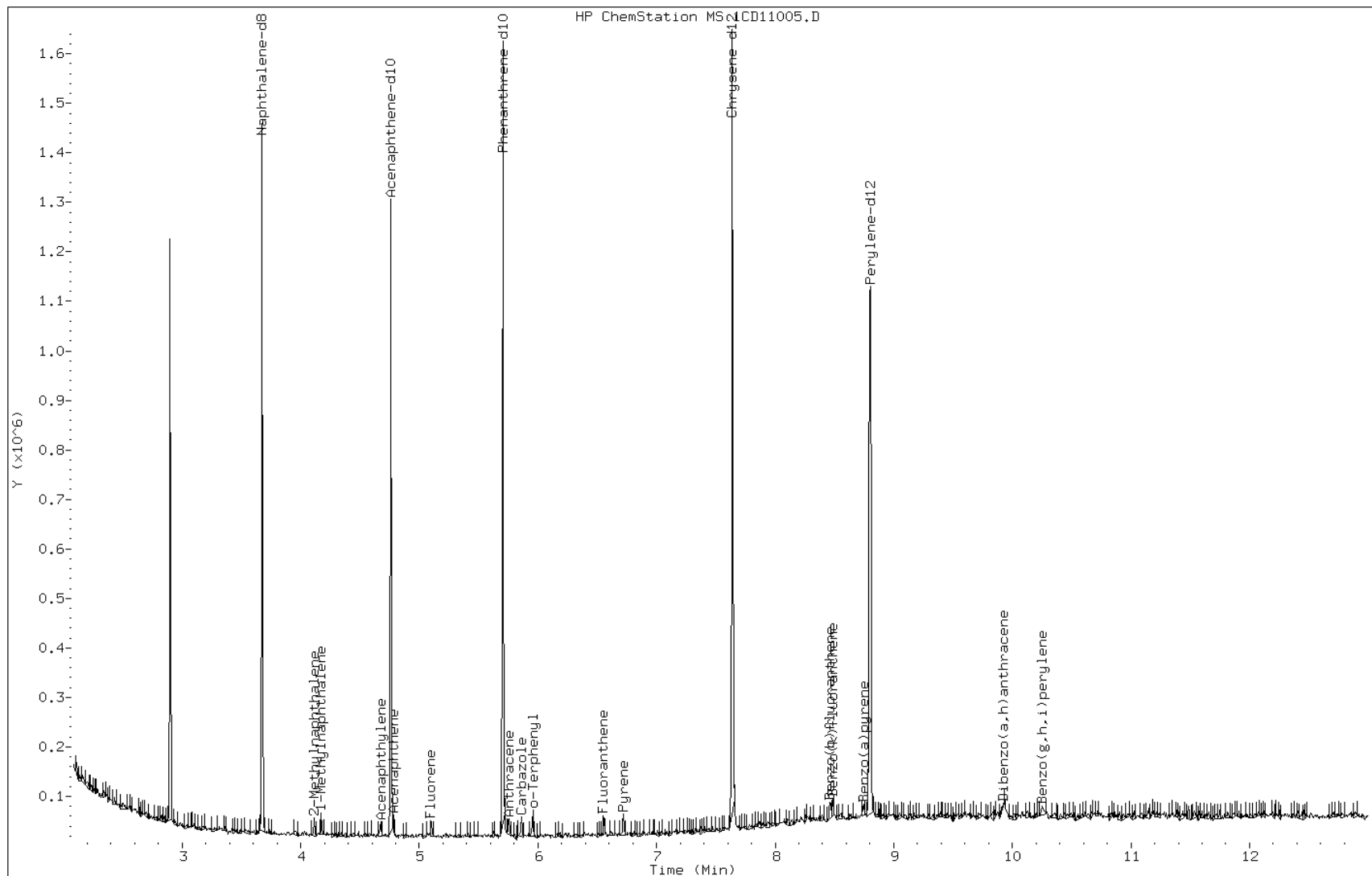
Date: 11-APR-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC

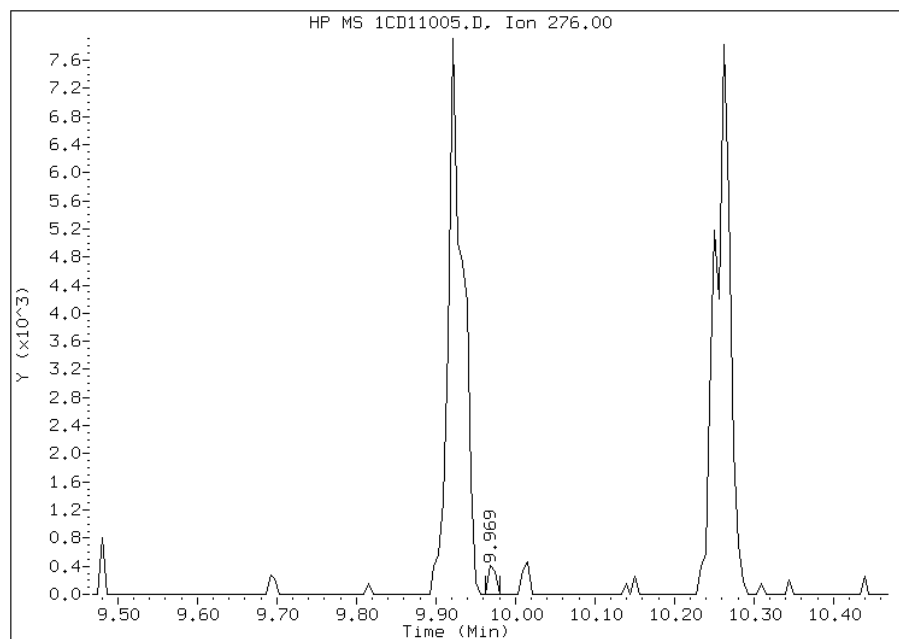


Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

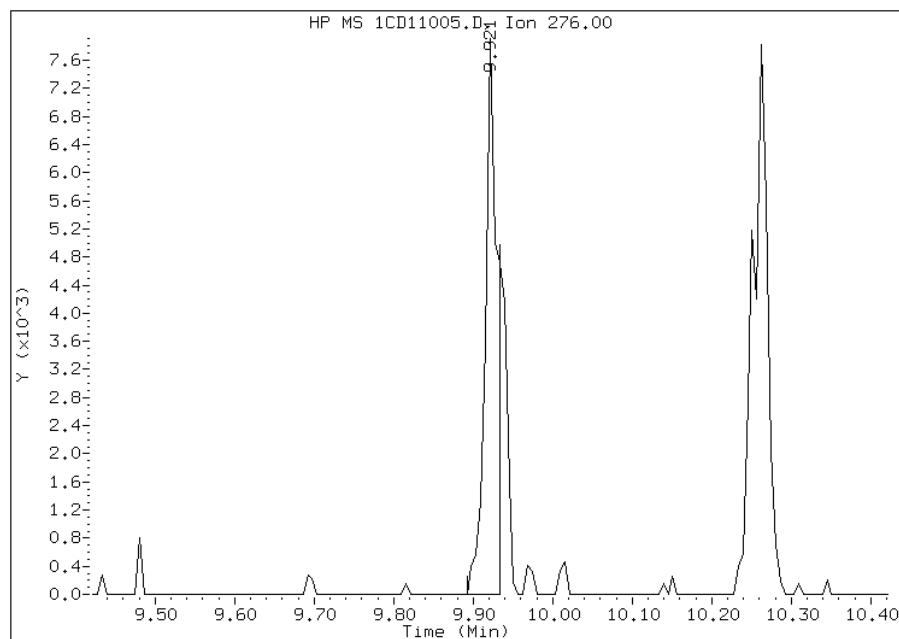
Processing Integration Results

RT: 9.97
Response: 260
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.92
Response: 8288
Amount: 1
Conc: 1



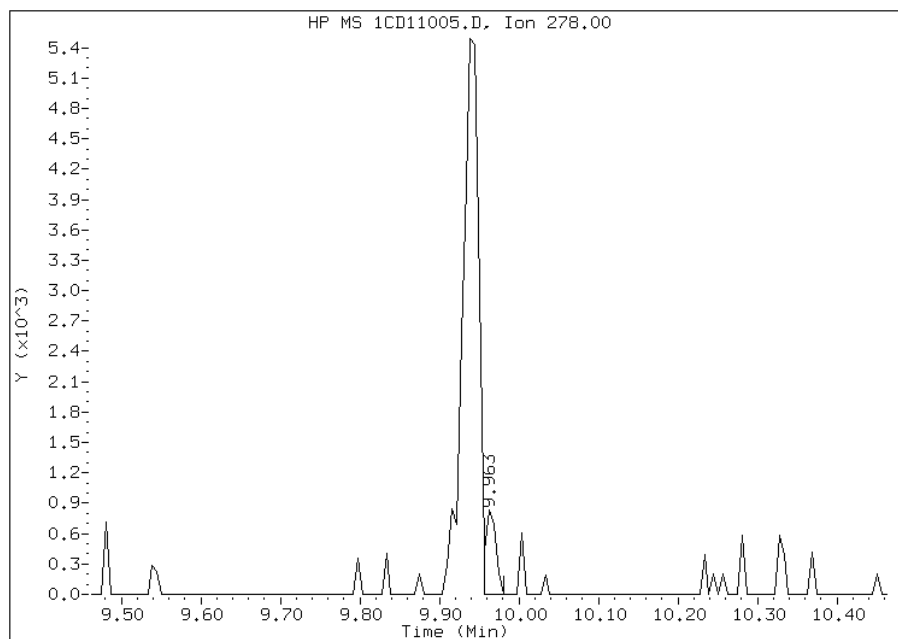
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

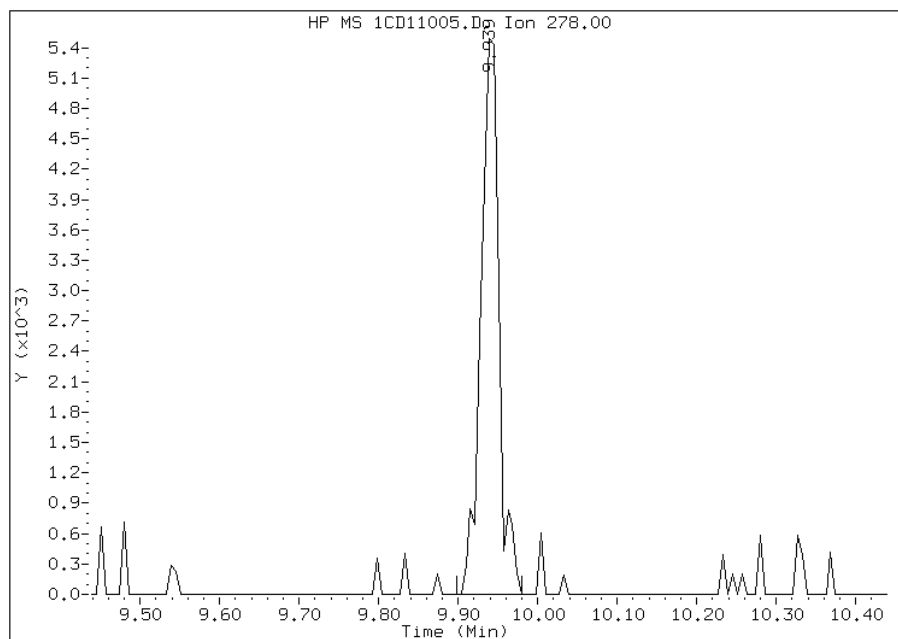
Processing Integration Results

RT: 9.96
Response: 764
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.94
Response: 8648
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D
 Lab Smp Id: IC-1531399
 Inj Date : 11-APR-2013 13:11
 Operator : SCC
 Smp Info : IC-1531399
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
* 1 Naphthalene-d8	136	3.675	3.675	(1.000)	236973	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(H)

QC Flag Legend

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

Data File: 1CD11006.D

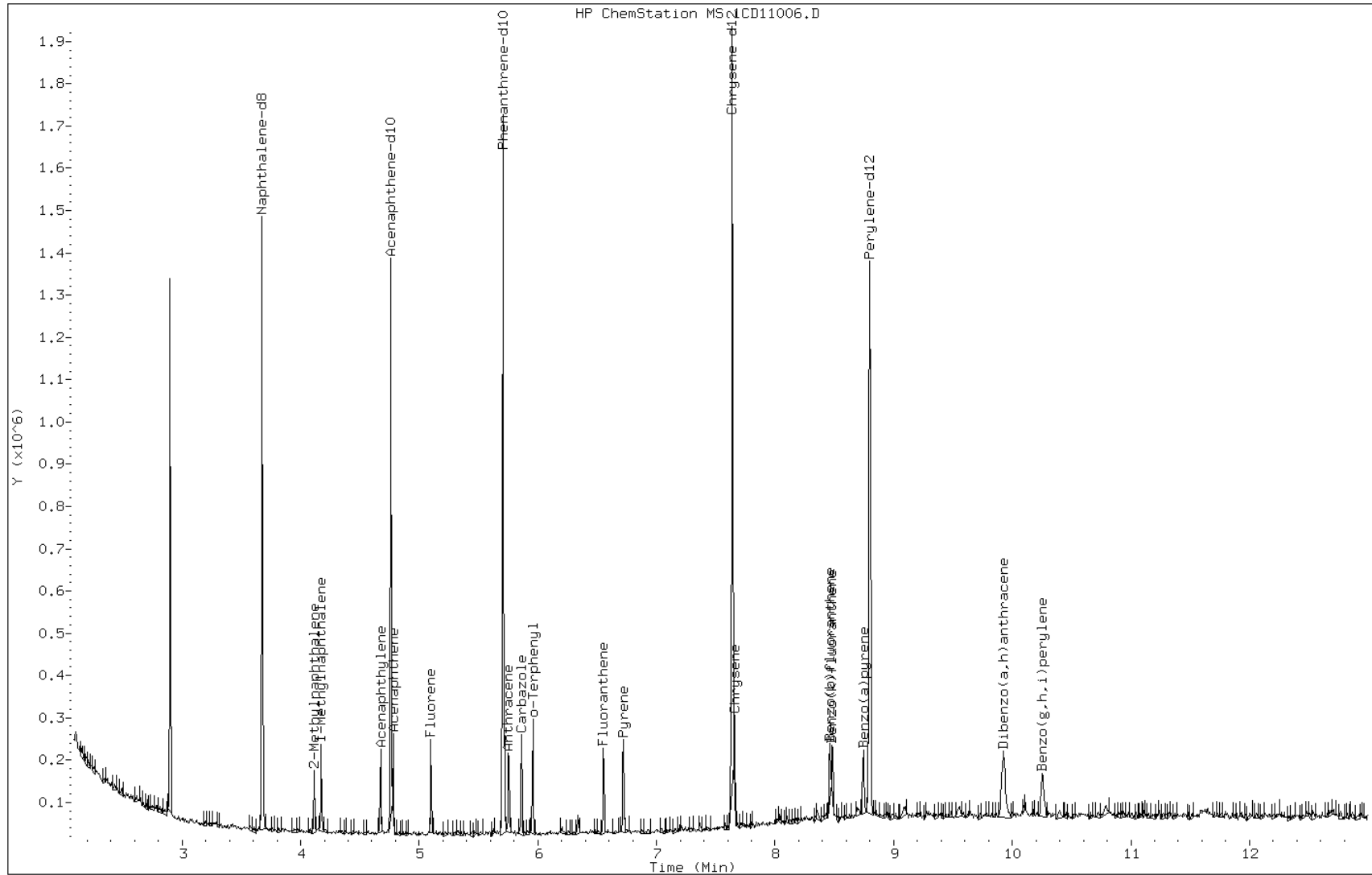
Date: 11-APR-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

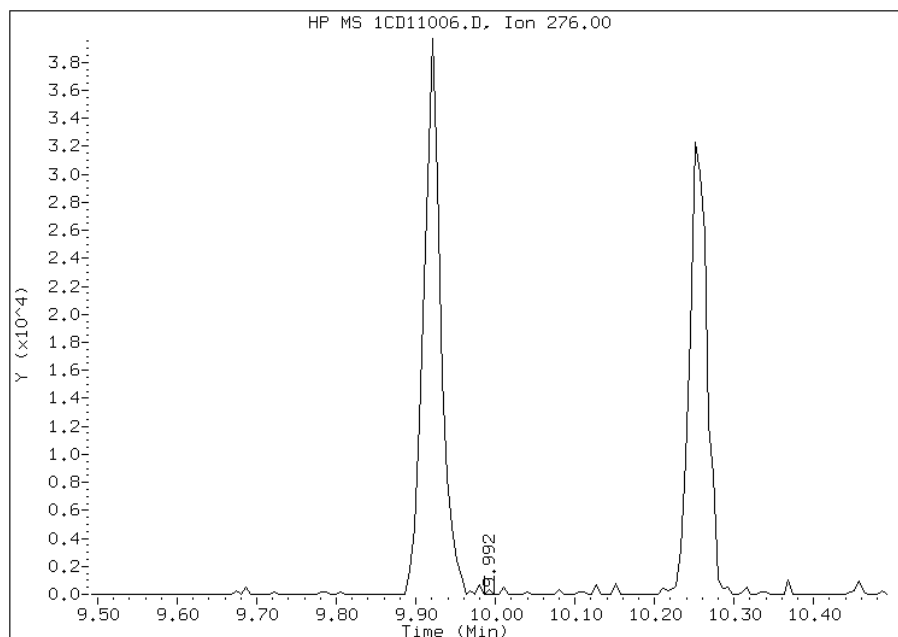


Manual Integration Report

Data File: 1CD11006.D
Inj. Date and Time: 11-APR-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

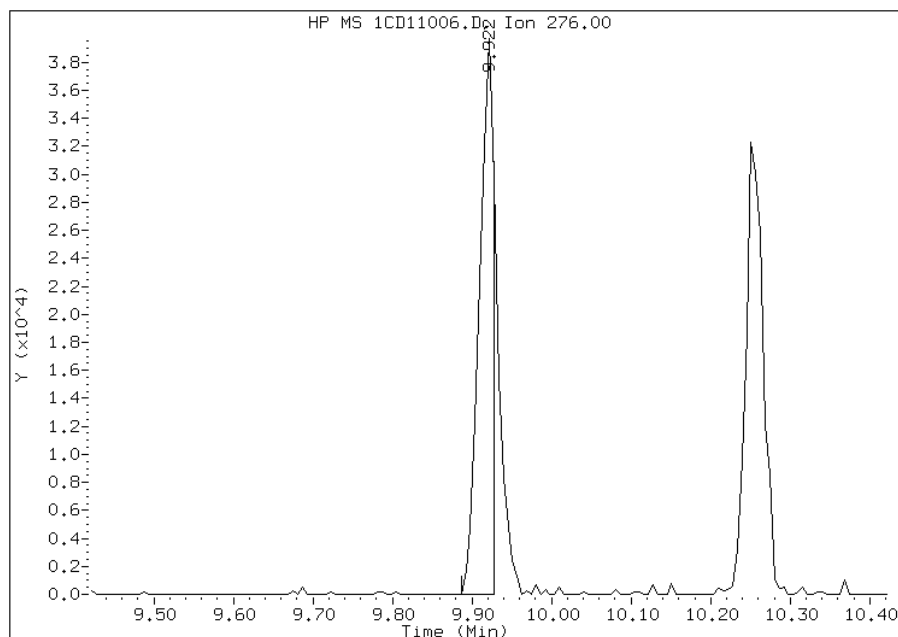
Processing Integration Results

RT: 9.99
Response: 108
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.92
Response: 50225
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D
 Lab Smp Id: IC-1531400
 Inj Date : 11-APR-2013 13:30
 Operator : SCC
 Smp Info : IC-1531400
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	246668	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	161880	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	295862	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	44711	10.0000	9.8155
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	371008	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	373300	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	66803	10.0000	10.0187
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	42945	10.0000	10.3474
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	38170	10.0000	8.9618
5 Acenaphthylene	152	4.674	4.674	(0.981)	69442	10.0000	10.1235
7 Acenaphthene	154	4.780	4.780	(1.004)	45560	10.0000	10.7277
9 Fluorene	166	5.098	5.098	(1.070)	56195	10.0000	10.6823
11 Phenanthrene	178	5.721	5.721	(1.003)	85752	10.0000	8.9693(H)
12 Anthracene	178	5.757	5.757	(1.009)	86681	10.0000	10.0918
13 Carbazole	167	5.863	5.863	(1.028)	78836	10.0000	9.8550
15 Fluoranthene	202	6.551	6.551	(1.148)	98679	10.0000	10.2813
16 Pyrene	202	6.721	6.721	(0.880)	104590	10.0000	9.9092
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	101817	10.0000	9.6151
19 Chrysene	228	7.657	7.657	(1.002)	99776	10.0000	9.6136
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	93677	10.0000	9.9354(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	107089	10.0000	10.0374(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	98767	10.0000	10.1338(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	83577	10.0000	8.7663(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	87325	10.0000	9.2288(H)
26 Benzo(g,h,i)perylene	276	10.256	10.256	(1.166)	96936	10.0000	10.6113(H)

QC Flag Legend

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

Data File: 1CD11007.D

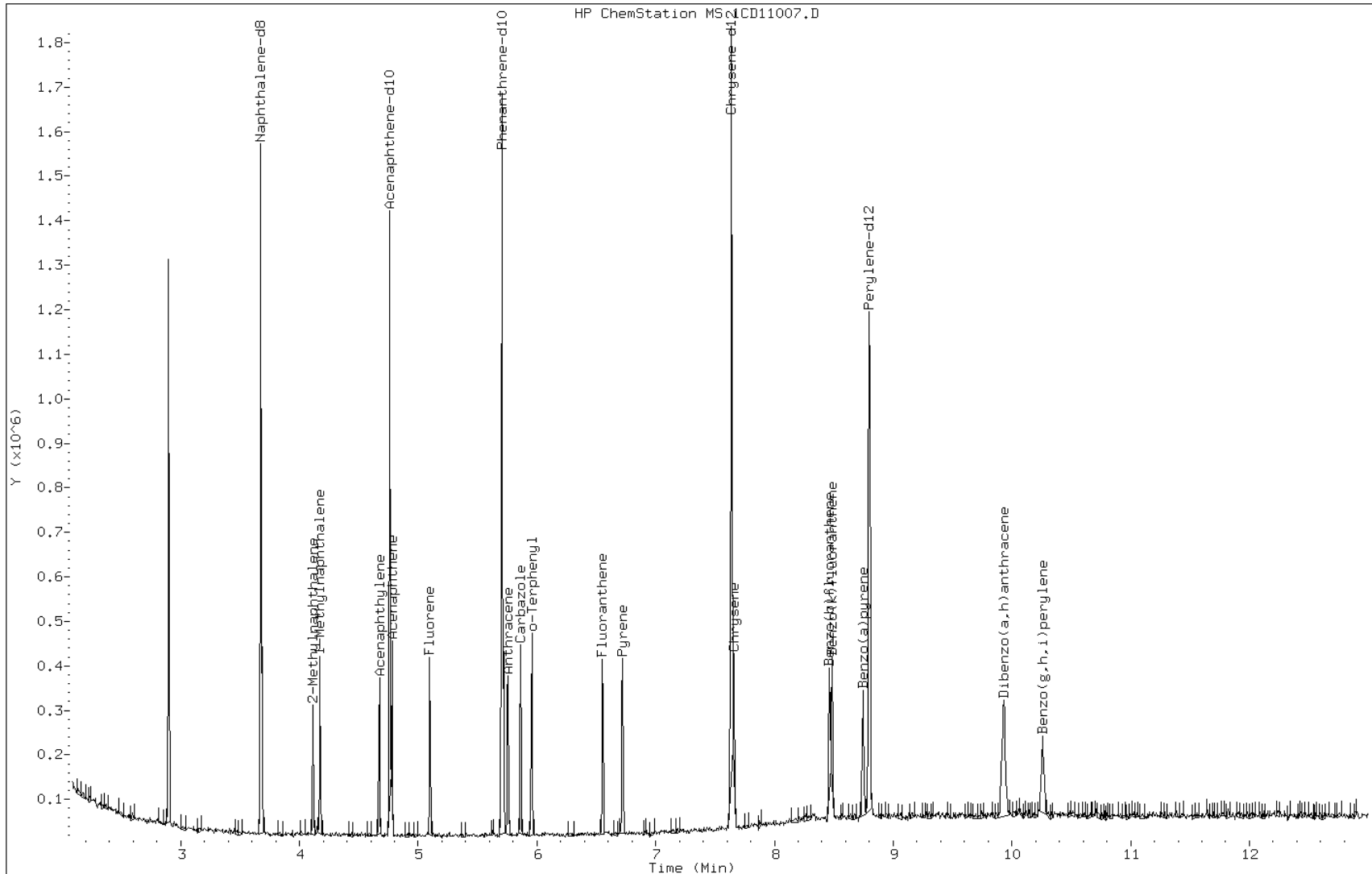
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC

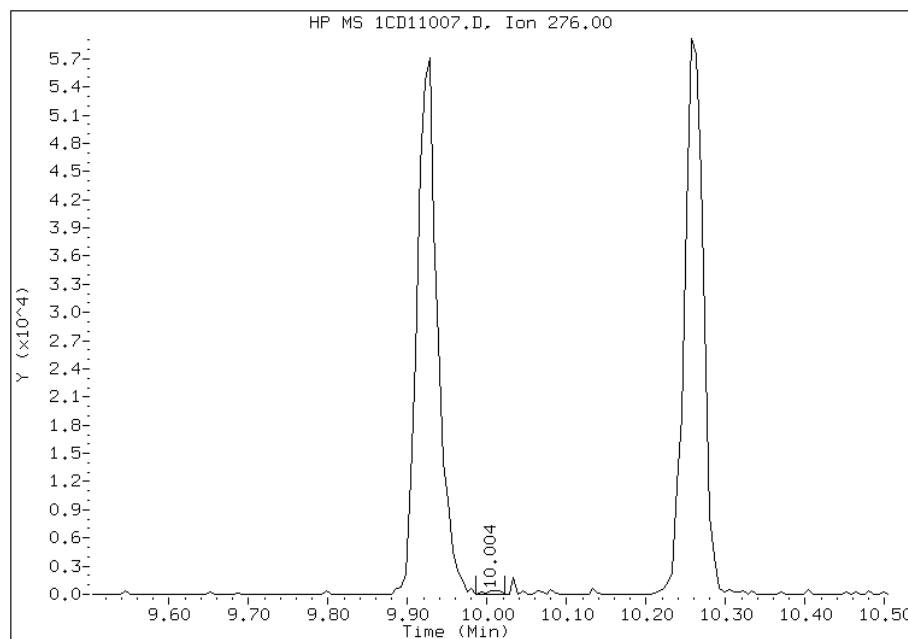


Manual Integration Report

Data File: 1CD11007.D
Inj. Date and Time: 11-APR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

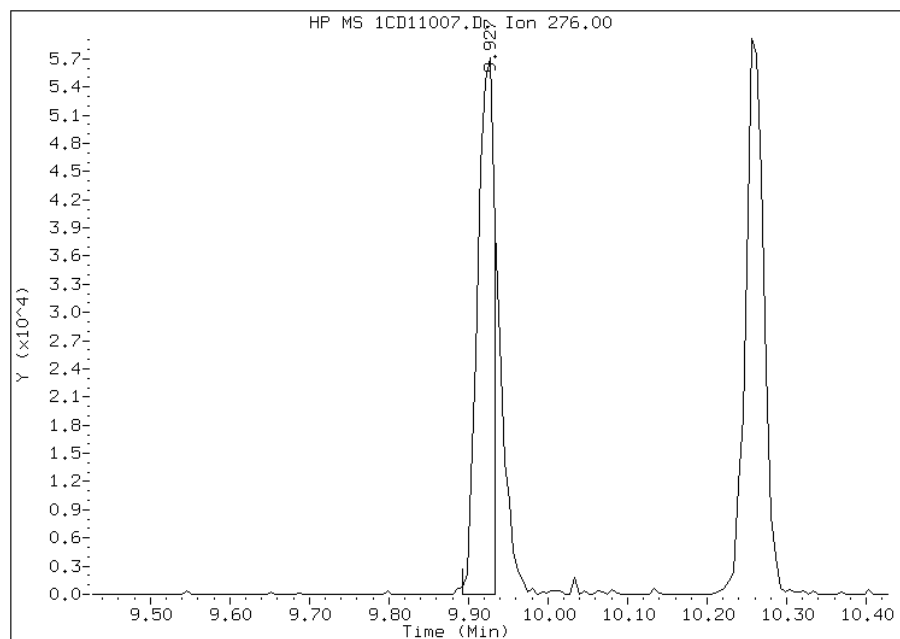
Processing Integration Results

RT: 10.00
Response: 600
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 83577
Amount: 9
Conc: 9



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D
 Lab Smp Id: IC-1531402
 Inj Date : 11-APR-2013 13:48
 Operator : SCC
 Smp Info : IC-1531402
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.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	3.674	3.674	(1.000)	219235	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
\$ 14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
* 23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

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

Data File: 1CD11008.D

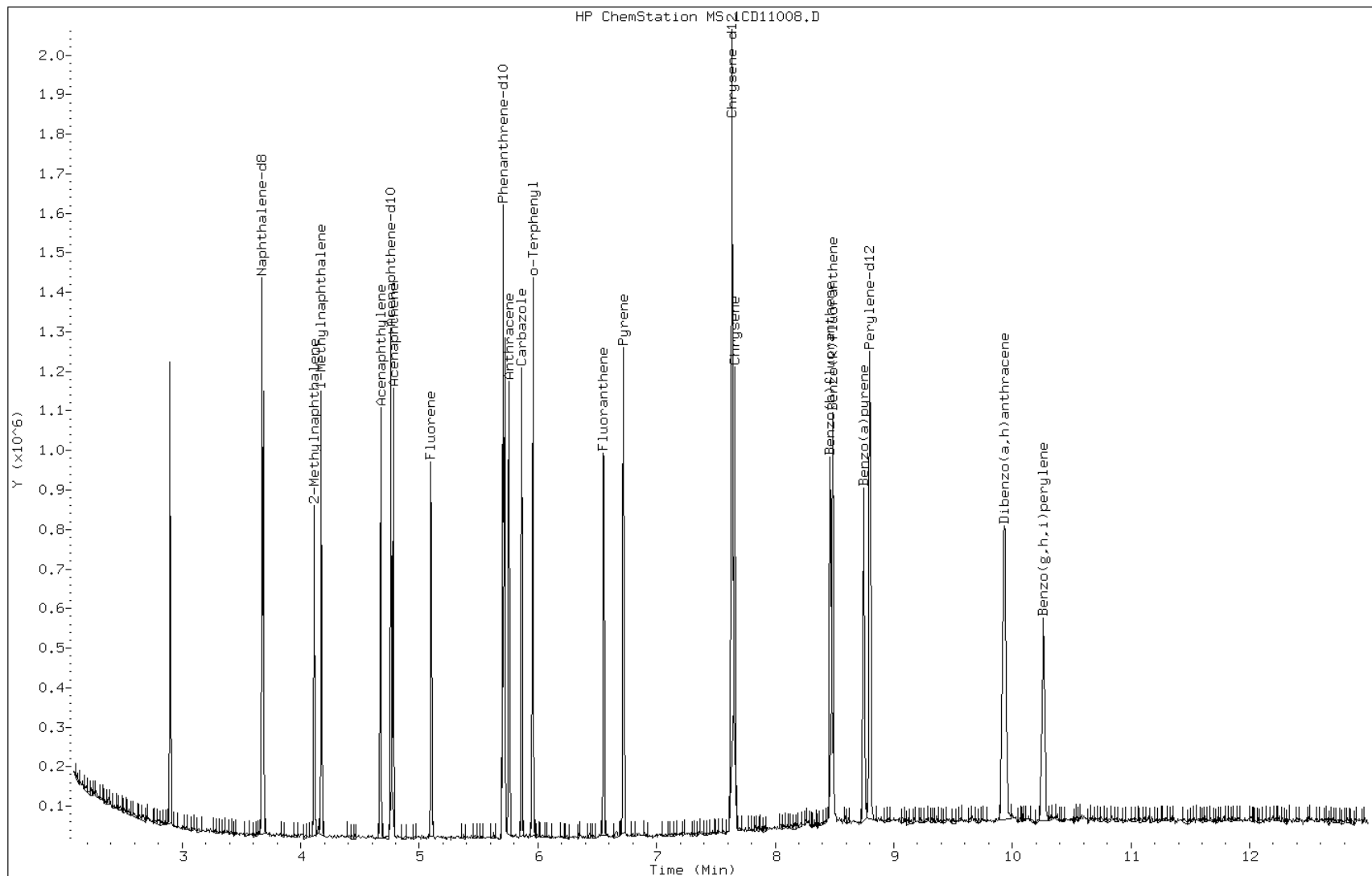
Date: 11-APR-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

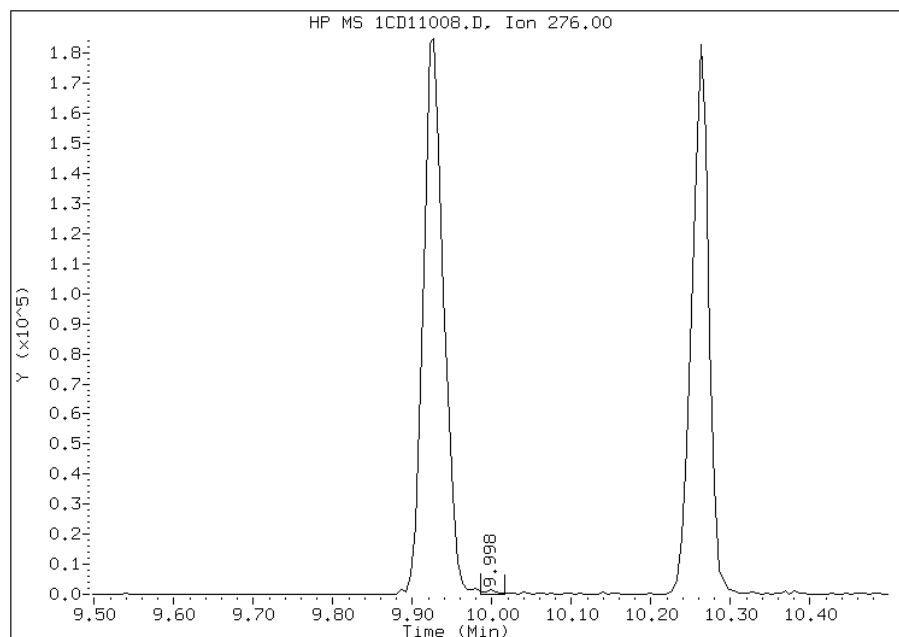


Manual Integration Report

Data File: 1CD11008.D
Inj. Date and Time: 11-APR-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

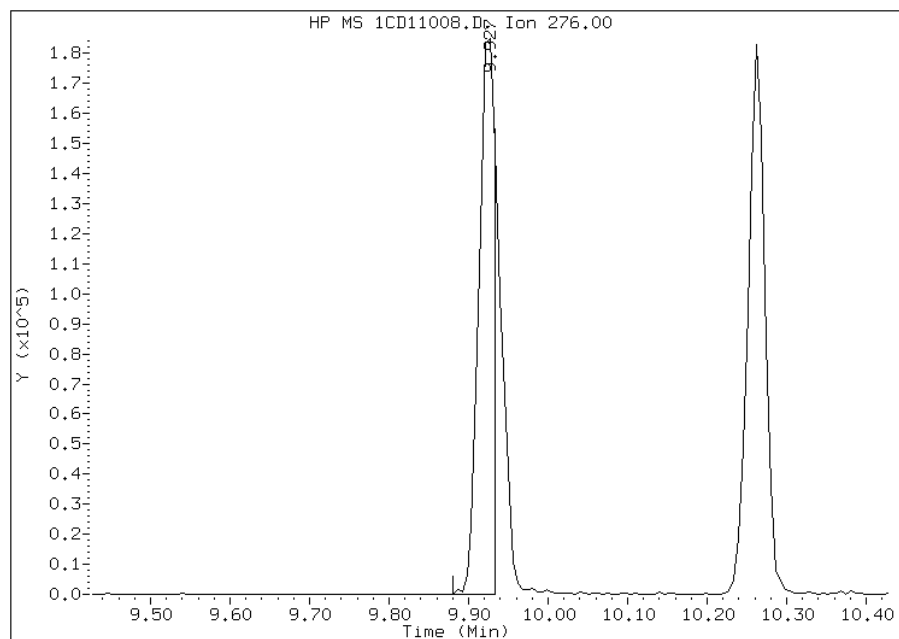
Processing Integration Results

RT: 10.00
Response: 1705
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 260884
Amount: 27
Conc: 27



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D
 Lab Smp Id: IC-1531403
 Inj Date : 11-APR-2013 14:06
 Operator : SCC
 Smp Info : IC-1531403
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.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	ON-COL
							(ug/ml)	(ug/ml)
* 1 Naphthalene-d8		136	3.674	3.674	(1.000)	245399	40.0000	
* 6 Acenaphthene-d10		164	4.763	4.763	(1.000)	178913	40.0000	
* 10 Phenanthrene-d10		188	5.704	5.704	(1.000)	327530	40.0000	
\$ 14 o-Terphenyl		230	5.957	5.957	(1.044)	276100	50.0000	51.5953(A)
* 18 Chrysene-d12		240	7.639	7.639	(1.000)	437594	40.0000	
* 23 Perylene-d12		264	8.798	8.798	(1.000)	425092	40.0000	(H)
2 Naphthalene		128	3.686	3.686	(1.003)	318955	50.0000	48.0823
3 2-Methylnaphthalene		142	4.116	4.116	(1.120)	221322	50.0000	53.6026(A)
4 1-Methylnaphthalene		142	4.174	4.174	(1.136)	201768	50.0000	47.6178
5 Acenaphthylene		152	4.674	4.674	(0.981)	370532	50.0000	48.8750
7 Acenaphthene		154	4.780	4.780	(1.004)	231163	50.0000	49.6697
9 Fluorene		166	5.104	5.104	(1.072)	287857	50.0000	49.5103
11 Phenanthrene		178	5.721	5.721	(1.003)	472306	50.0000	44.6250(H)
12 Anthracene		178	5.757	5.757	(1.009)	498469	50.0000	52.4232(A)
13 Carbazole		167	5.863	5.863	(1.028)	443362	50.0000	50.0646(A)
15 Fluoranthene		202	6.557	6.557	(1.150)	556889	50.0000	52.4123(A)
16 Pyrene		202	6.721	6.721	(0.880)	619923	50.0000	49.7966
17 Benzo(a)anthracene		228	7.633	7.633	(0.999)	615507	50.0000	49.8010
19 Chrysene		228	7.662	7.662	(1.003)	632502	50.0000	51.6696(A)
20 Benzo(b)fluoranthene		252	8.468	8.468	(0.963)	576085	50.0000	53.6554(AH)
21 Benzo(k)fluoranthene		252	8.486	8.486	(0.965)	711099	50.0000	58.5305(AH)
22 Benzo(a)pyrene		252	8.751	8.751	(0.995)	612644	50.0000	55.2010(AH)
24 Indeno(1,2,3-cd)pyrene		276	9.933	9.933	(1.129)	557635	50.0000	51.3640(AMH)
25 Dibenzo(a,h)anthracene		278	9.945	9.945	(1.130)	545458	50.0000	50.6224(AH)
26 Benzo(g,h,i)perylene		276	10.268	10.268	(1.167)	540151	50.0000	51.9247(AH)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1CD11009.D

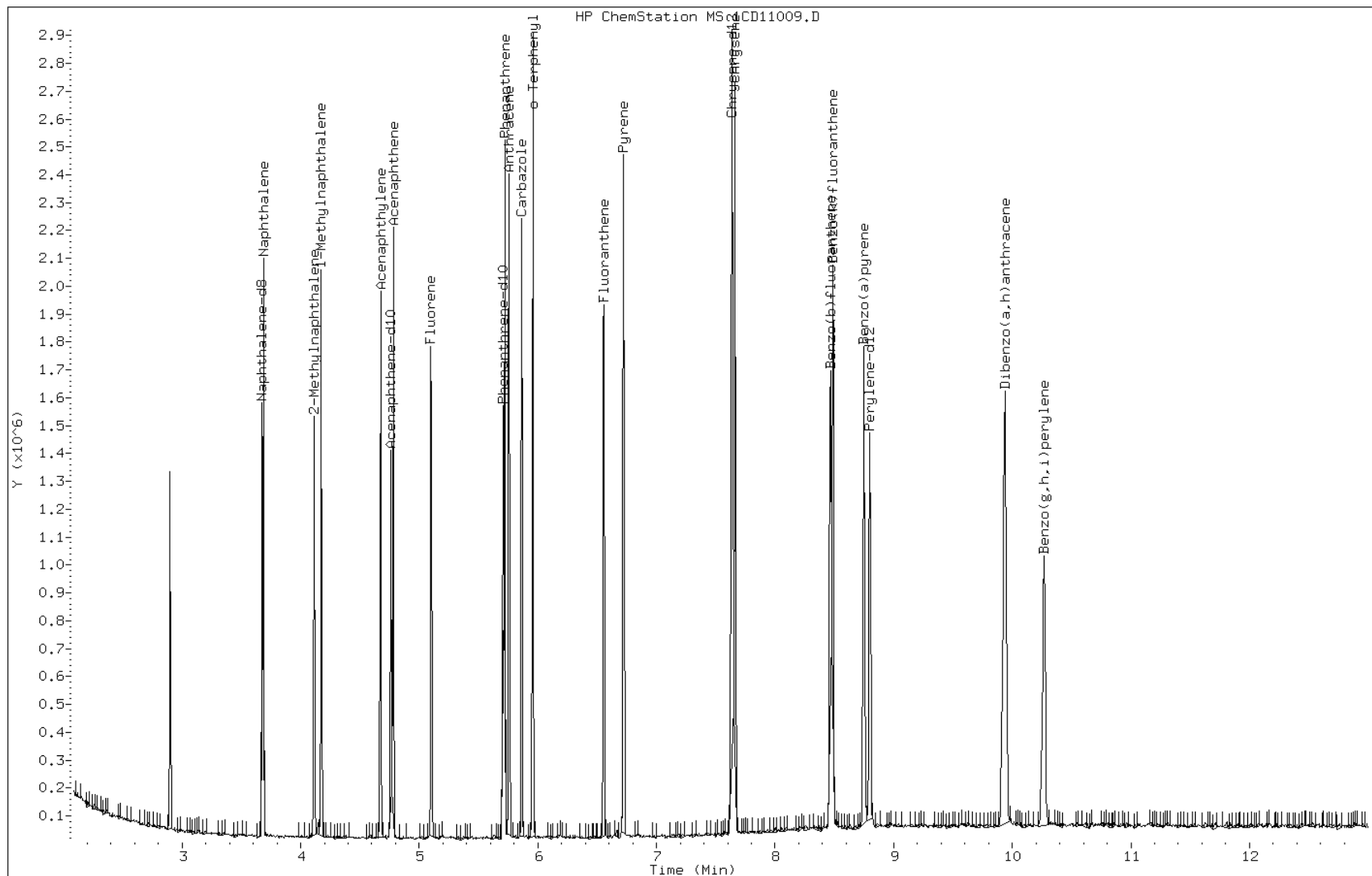
Date: 11-APR-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC

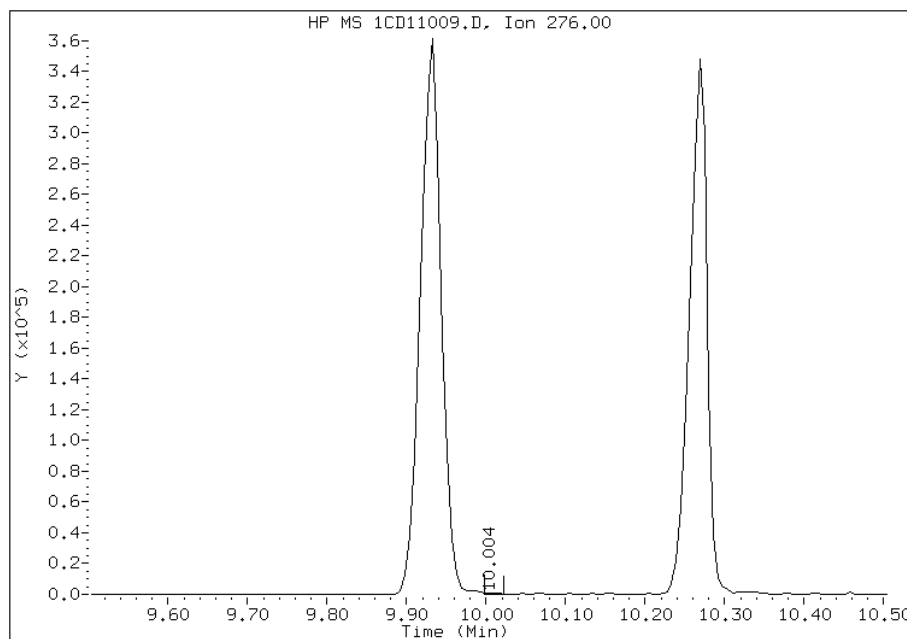


Manual Integration Report

Data File: 1CD11009.D
Inj. Date and Time: 11-APR-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

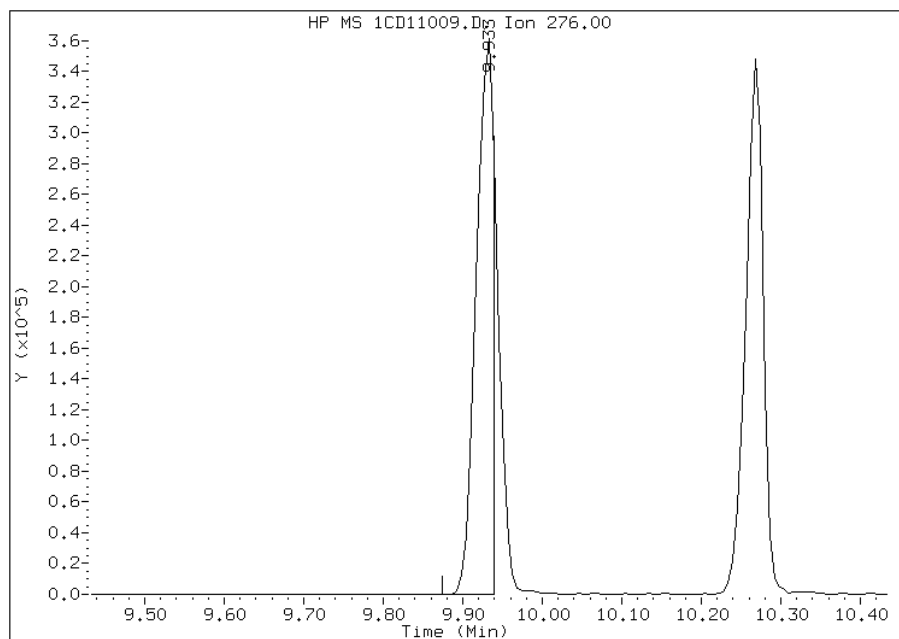
Processing Integration Results

RT: 10.00
Response: 955
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 557635
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:37
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-89038-1 Analy Batch No.: 136164

SDG No.: _____

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave	0.9942			0.0000	4.3		15.0				
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave	0.6418			0.0000	6.0		15.0				
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave	0.6061			0.0000	5.5		15.0				
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave	1.6930			0.0000	9.3		15.0				
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave	1.0450			0.0000	4.6		15.0				
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave	1.2375			0.0000	5.5		15.0				
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave	1.1018			0.0000	4.5		15.0				
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave	1.0936			0.0000	7.6		15.0				
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave	0.9646			0.0000	6.7		15.0				
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave	1.1338			0.0000	6.1		15.0				
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave	1.2012			0.0000	5.0		15.0				
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave	1.1565			0.0000	14.1		15.0				
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave	1.0844			0.0000	3.8		15.0				
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave	0.9992			0.0000	4.8		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.: 680-89038-1 Analy Batch No.: 136164

SDG No.: _____

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-89038-1 Analy Batch No.: 136164

SDG No.: _____

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.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	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	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.: 680-89038-1 Analy Batch No.: 136164

SDG No.: _____

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

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	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
 Lab Smp Id: IC-1531396
 Inj Date : 04-APR-2013 13:49
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531396
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dfASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 5 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
\$ 13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
* 17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
* 22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04007.D

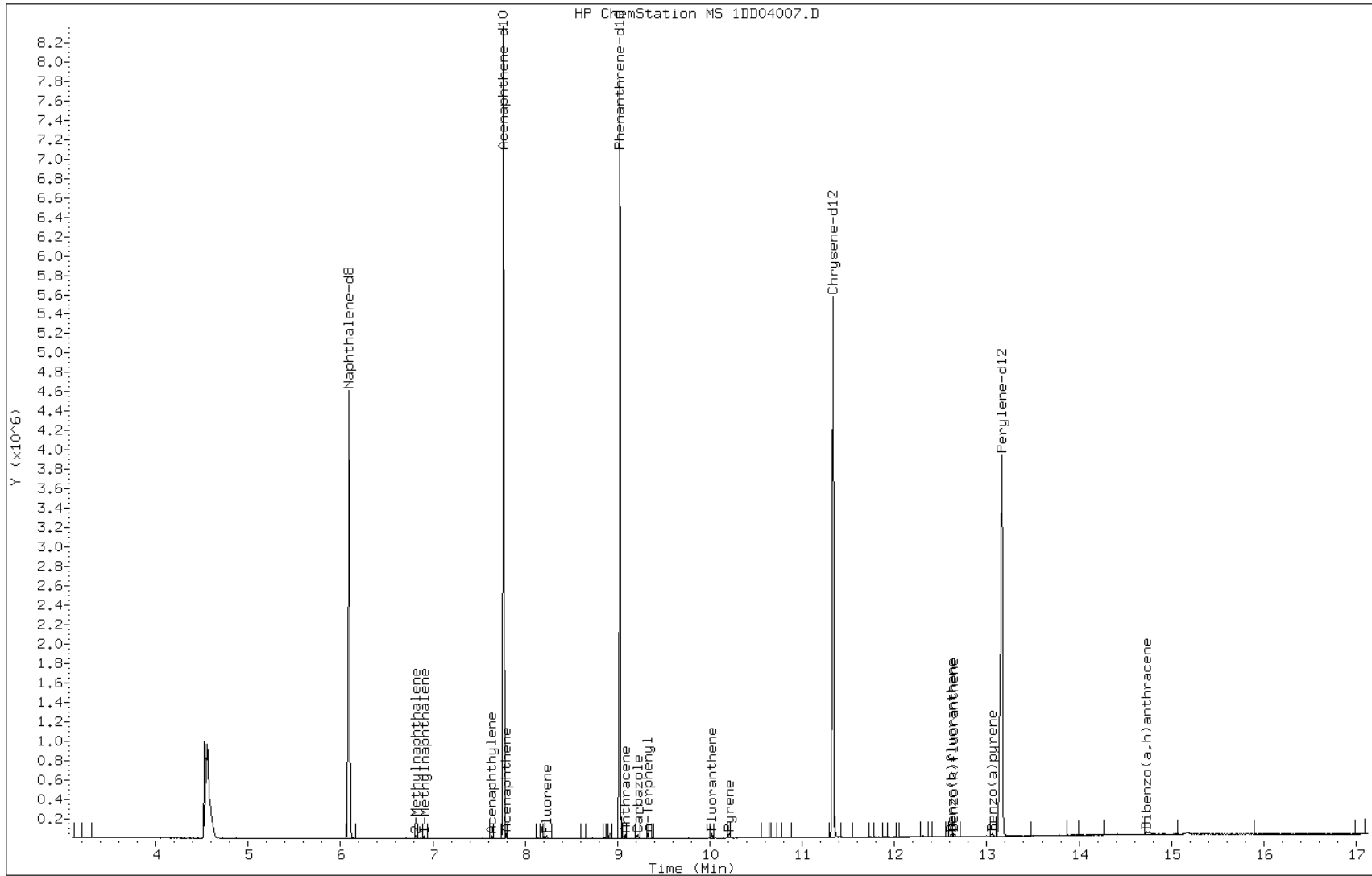
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC

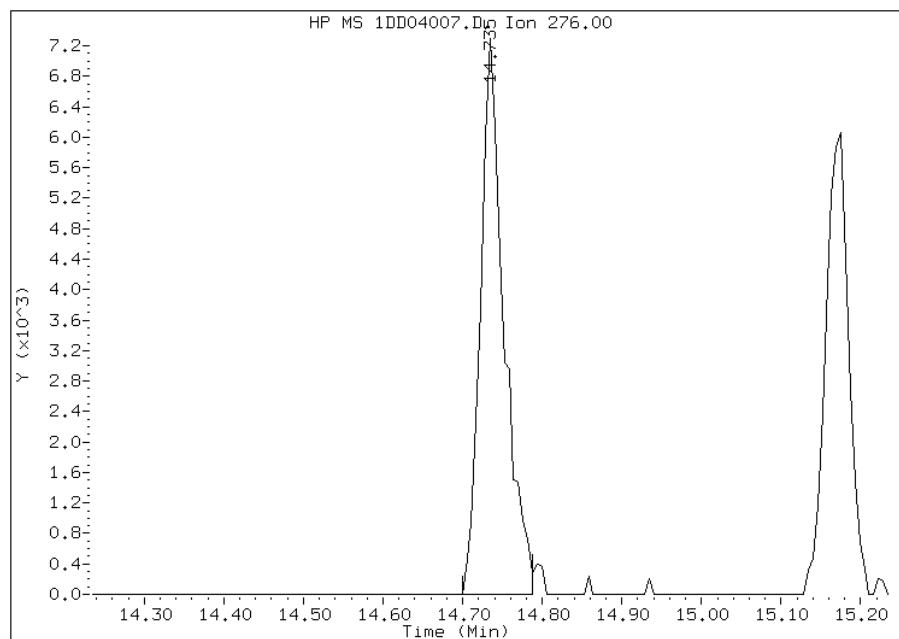


Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

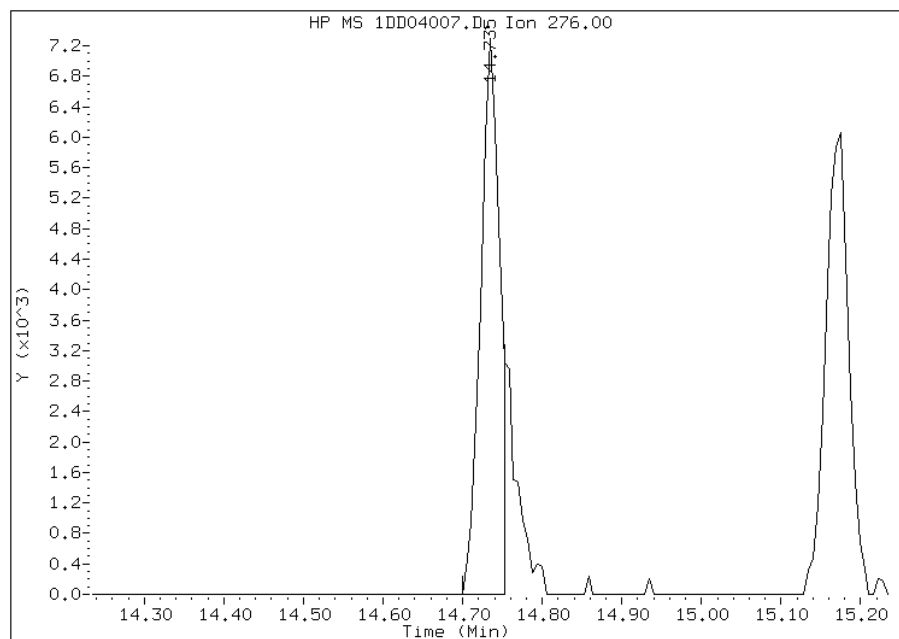
Processing Integration Results

RT: 14.73
Response: 14910
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.73
Response: 12106
Amount: 0
Conc: 0



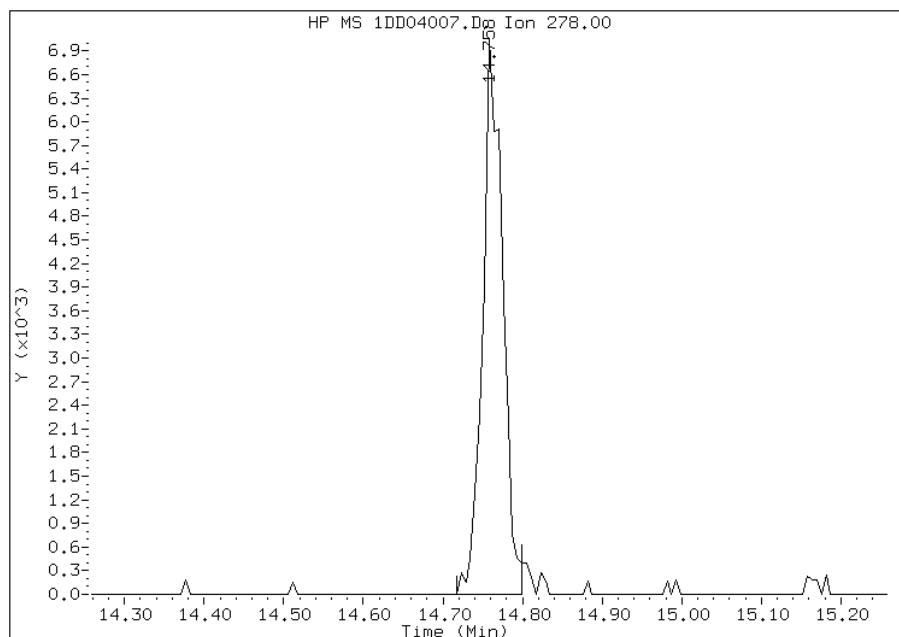
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

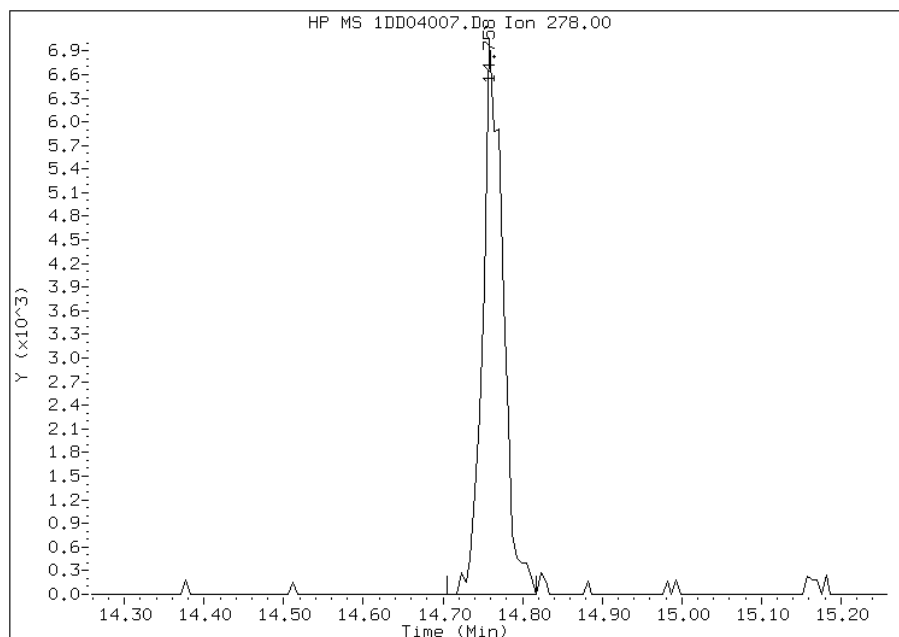
Processing Integration Results

RT: 14.76
Response: 12250
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.76
Response: 12466
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
 Lab Smp Id: IC-1531398
 Inj Date : 04-APR-2013 14:11
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531398
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
 Als bottle: 6 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
\$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

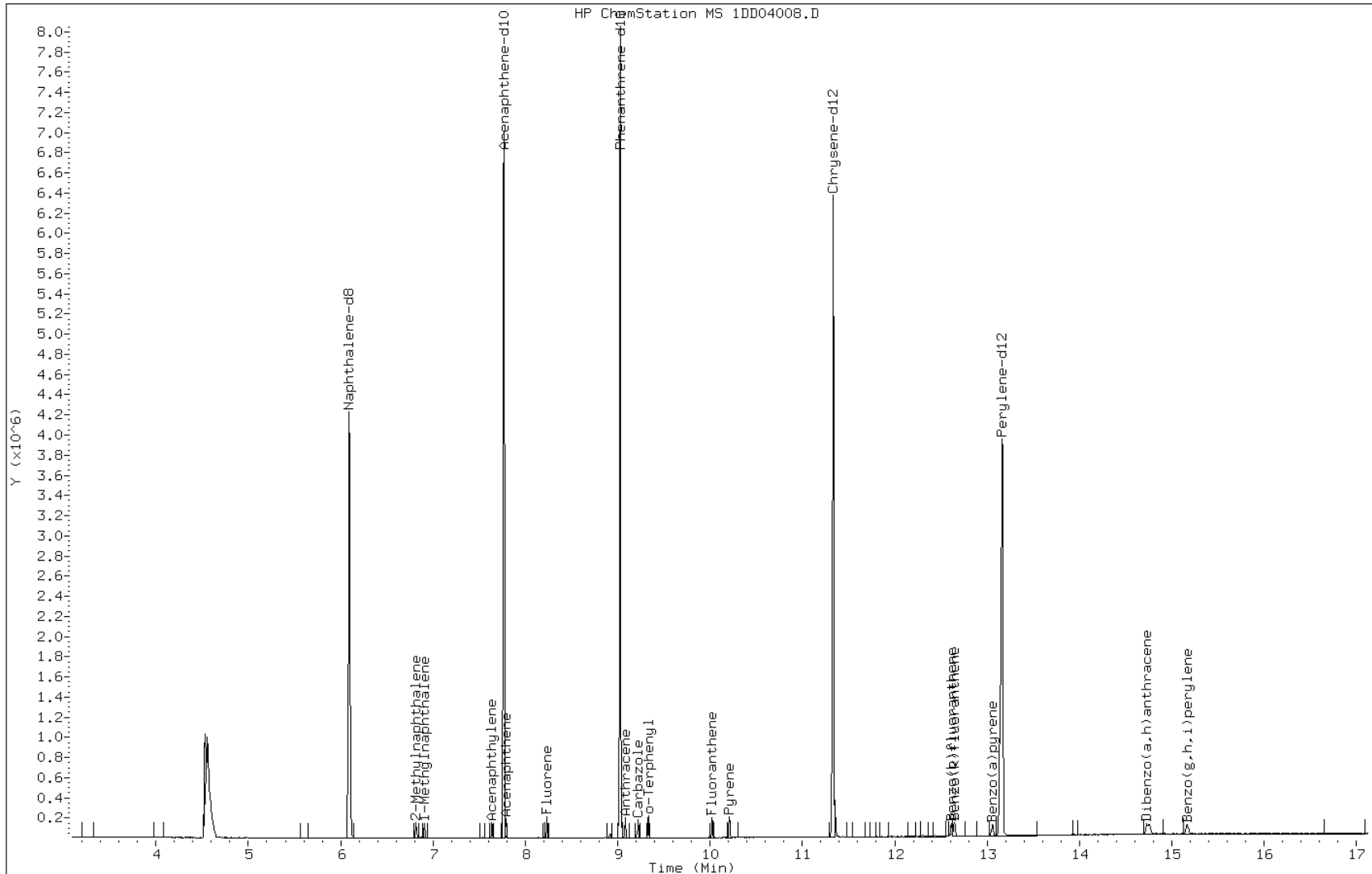
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

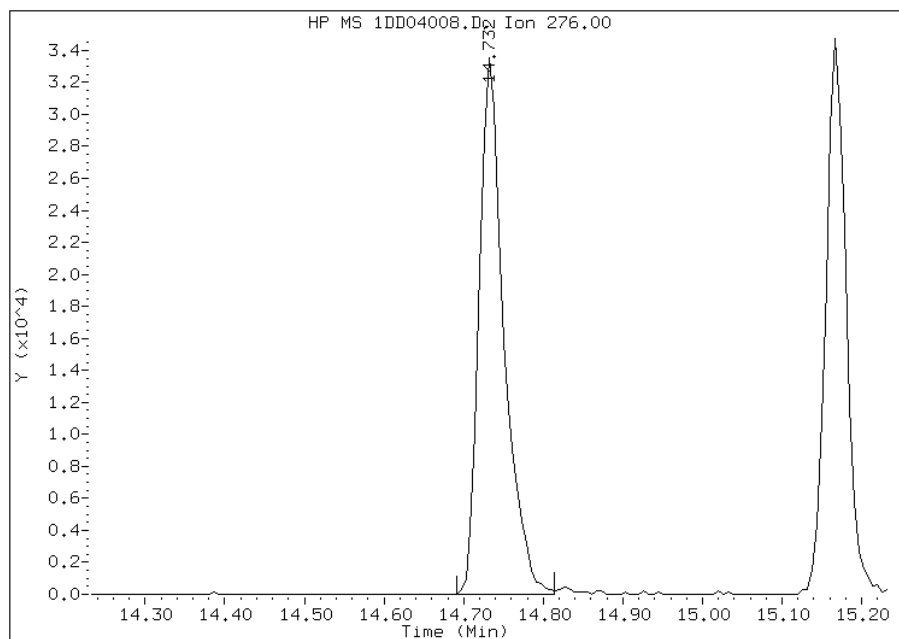


Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

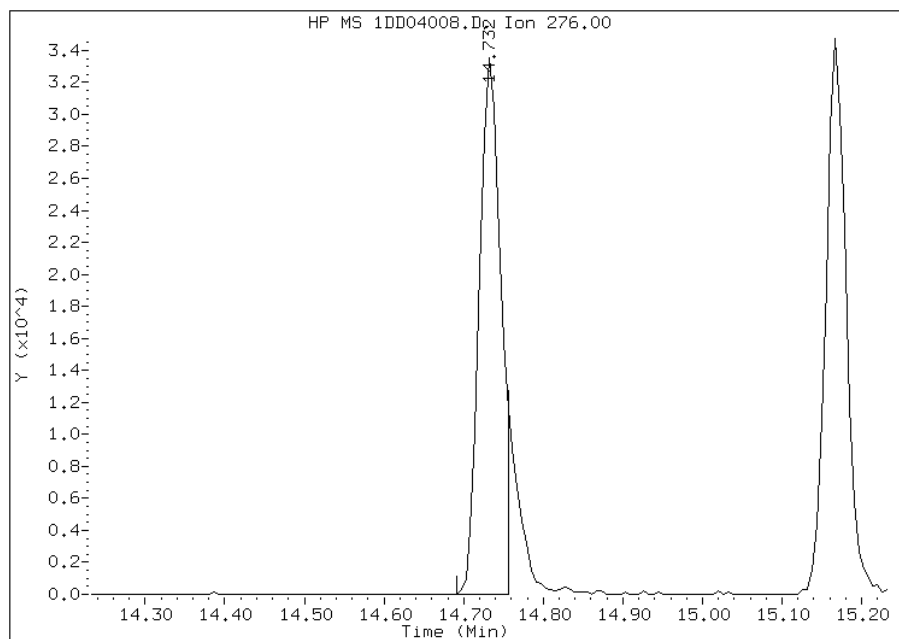
Processing Integration Results

RT: 14.73
Response: 72512
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.73
Response: 62840
Amount: 1
Conc: 1



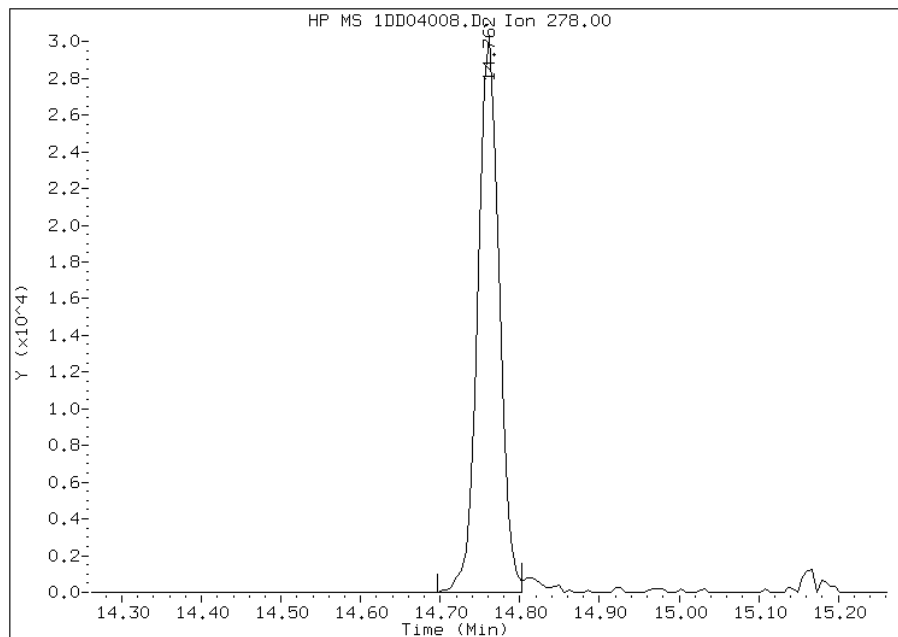
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

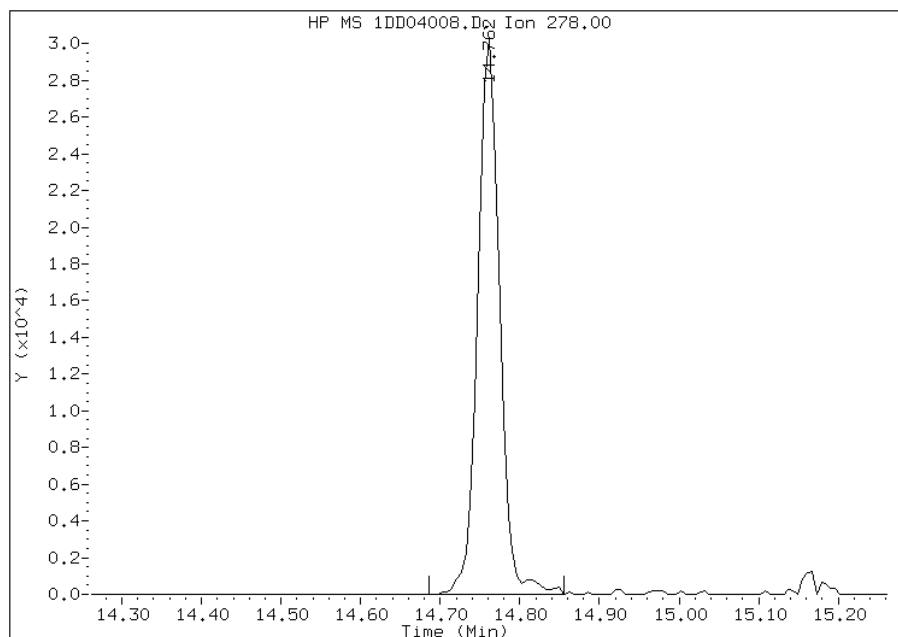
Processing Integration Results

RT: 14.76
Response: 56125
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.76
Response: 57541
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
 Lab Smp Id: IC-1531399
 Inj Date : 04-APR-2013 14:34
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531399
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
* 6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
\$ 13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04009.D

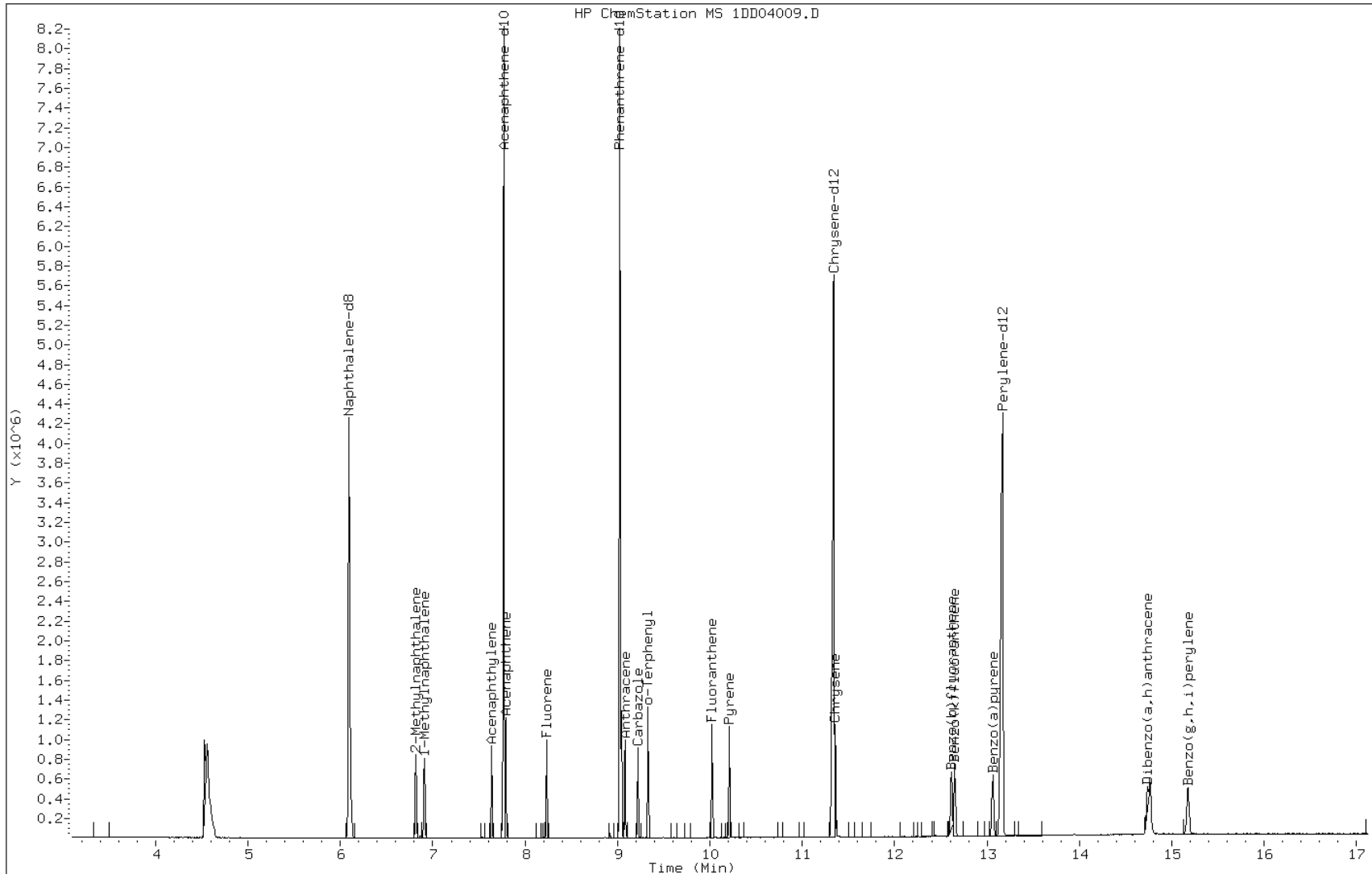
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

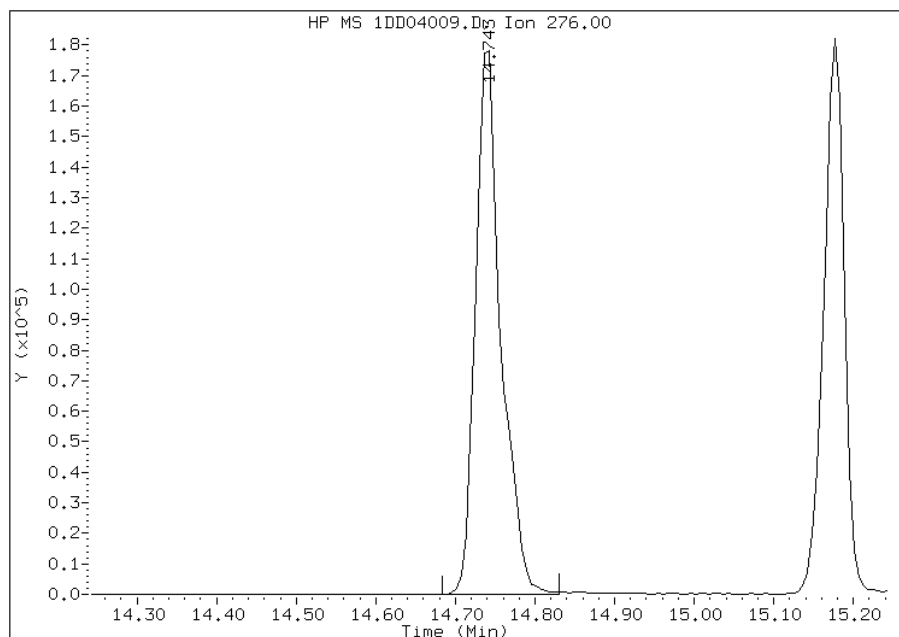


Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

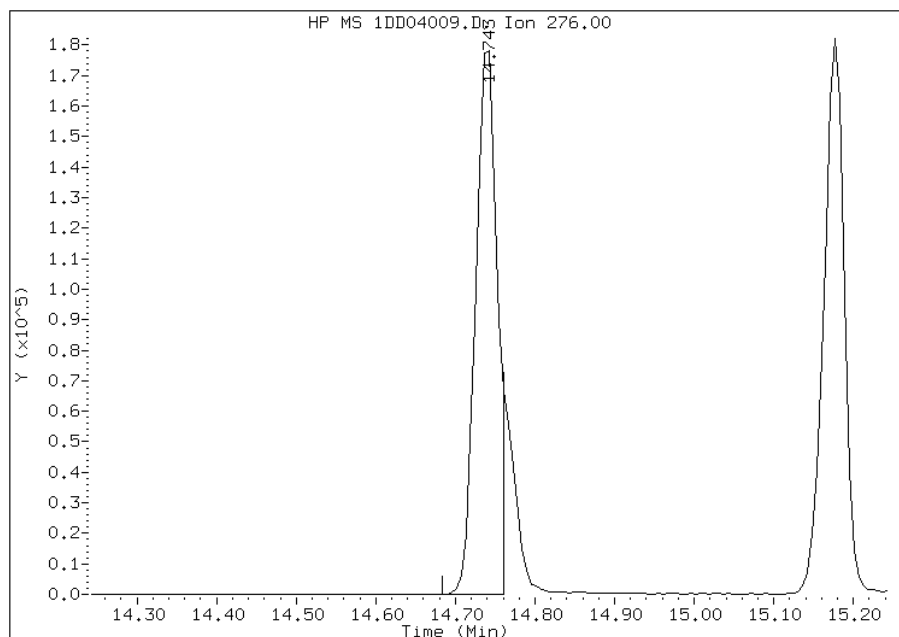
Processing Integration Results

RT: 14.74
Response: 395308
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.74
Response: 336963
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
 Lab Smp Id: IC-1531400
 Inj Date : 04-APR-2013 14:57
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531400
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
 Als bottle: 8 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
* 6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
\$ 13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04010.D

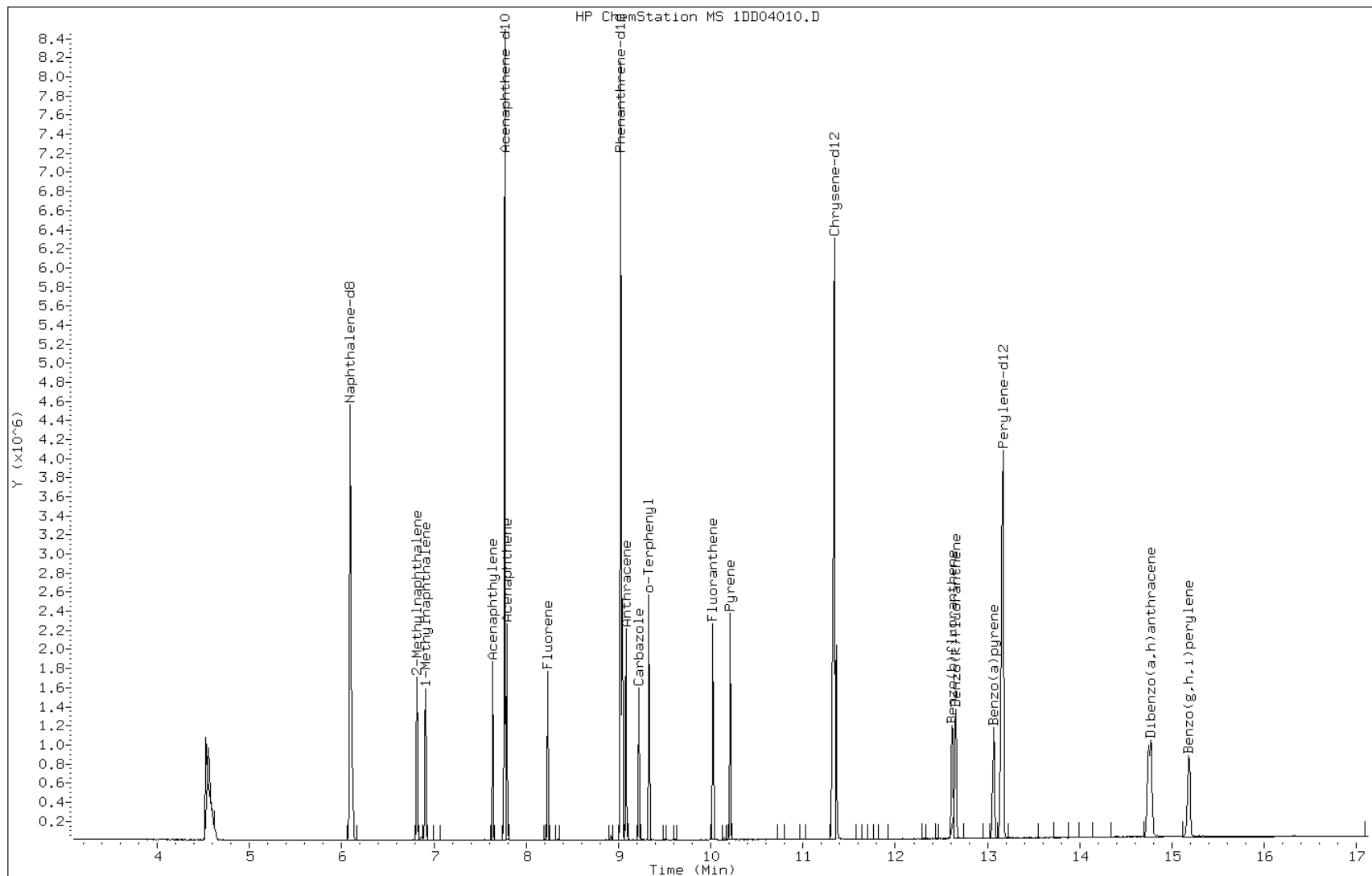
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

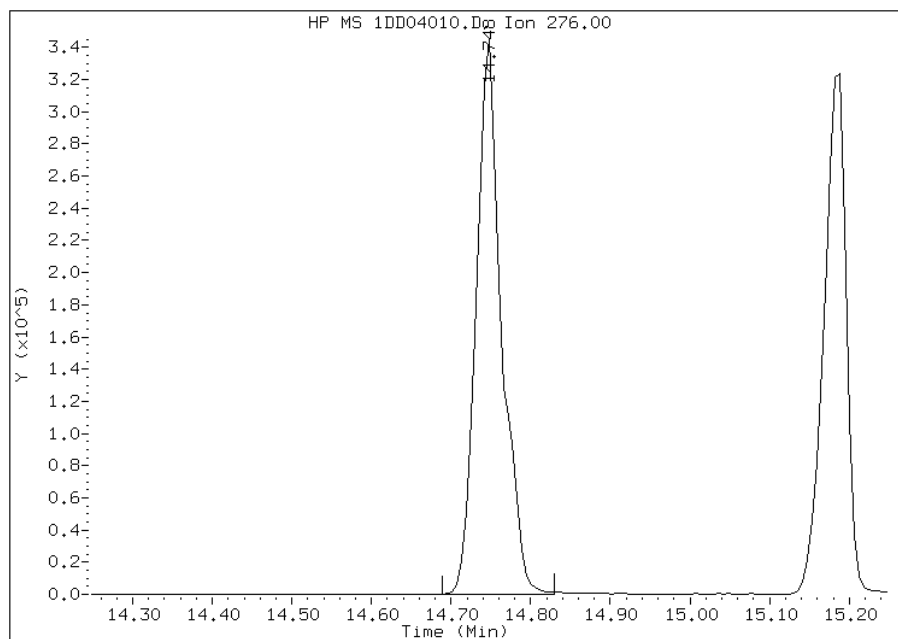


Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

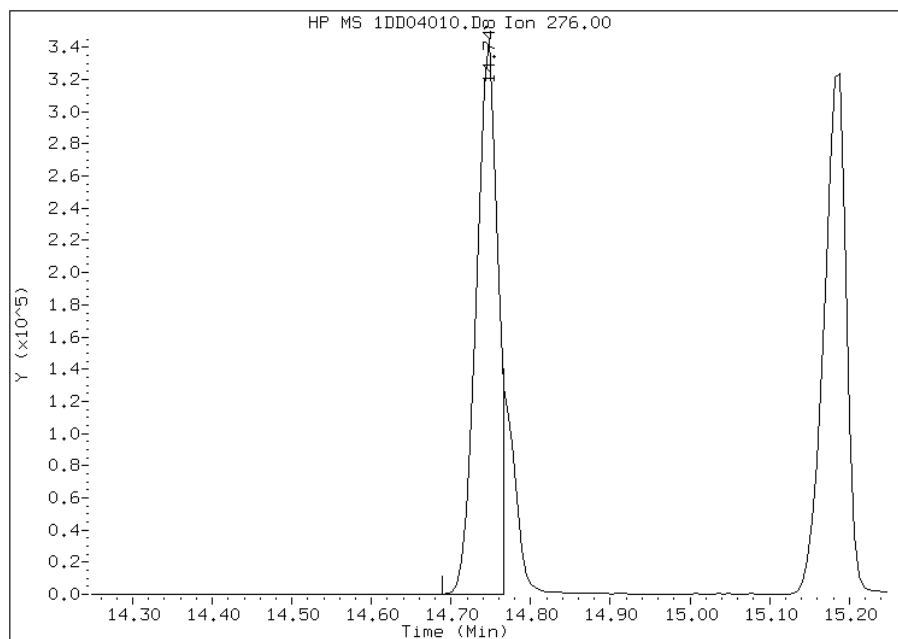
Processing Integration Results

RT: 14.75
Response: 759012
Amount: 10
Conc: 10



Manual Integration Results

RT: 14.75
Response: 647015
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
 Lab Smp Id: ICIS-1531401
 Inj Date : 04-APR-2013 15:19
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
 Als bottle: 9 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		6.089	6.089	(1.000)	2475113	40.0000	
* 6 Acenaphthene-d10	164		7.769	7.769	(1.000)	1466924	40.0000	
* 9 Phenanthrene-d10	188		9.027	9.027	(1.000)	2428512	40.0000	
\$ 13 o-Terphenyl	230		9.332	9.332	(1.034)	754512	20.0000	21
* 17 Chrysene-d12	240		11.342	11.342	(1.000)	2464730	40.0000	
* 22 Perylene-d12	264		13.169	13.169	(1.000)	2515643	40.0000	
2 Naphthalene	128		6.113	6.113	(1.004)	1235557	20.0000	20
3 2-Methylnaphthalene	142		6.818	6.818	(1.120)	806286	20.0000	20
4 1-Methylnaphthalene	142		6.912	6.912	(1.135)	757317	20.0000	20
5 Acenaphthylene	152		7.640	7.640	(0.983)	1275622	20.0000	20
7 Acenaphthene	154		7.793	7.793	(1.003)	757590	20.0000	20
8 Fluorene	166		8.234	8.234	(1.060)	918747	20.0000	20
10 Phenanthrene	178		9.044	9.044	(1.002)	1331875	20.0000	20
11 Anthracene	178		9.086	9.086	(1.007)	1360668	20.0000	20
12 Carbazole	167		9.227	9.227	(1.022)	1202897	20.0000	20
14 Fluoranthene	202		10.026	10.026	(1.111)	1392506	20.0000	20
15 Pyrene	202		10.214	10.214	(0.901)	1496990	20.0000	20
16 Benzo(a)anthracene	228		11.324	11.324	(0.998)	1332372	20.0000	20
18 Chrysene	228		11.365	11.365	(1.002)	1305118	20.0000	20
19 Benzo(b)fluoranthene	252		12.623	12.623	(0.959)	1270704	20.0000	20
20 Benzo(k)fluoranthene	252		12.664	12.664	(0.962)	1319239	20.0000	20
21 Benzo(a)pyrene	252		13.075	13.075	(0.993)	1276688	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276		14.761	14.761	(1.121)	1333044	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278		14.785	14.785	(1.123)	1273836	20.0000	20
25 Benzo(g,h,i)perylene	276		15.202	15.202	(1.154)	1285637	20.0000	20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04011.D

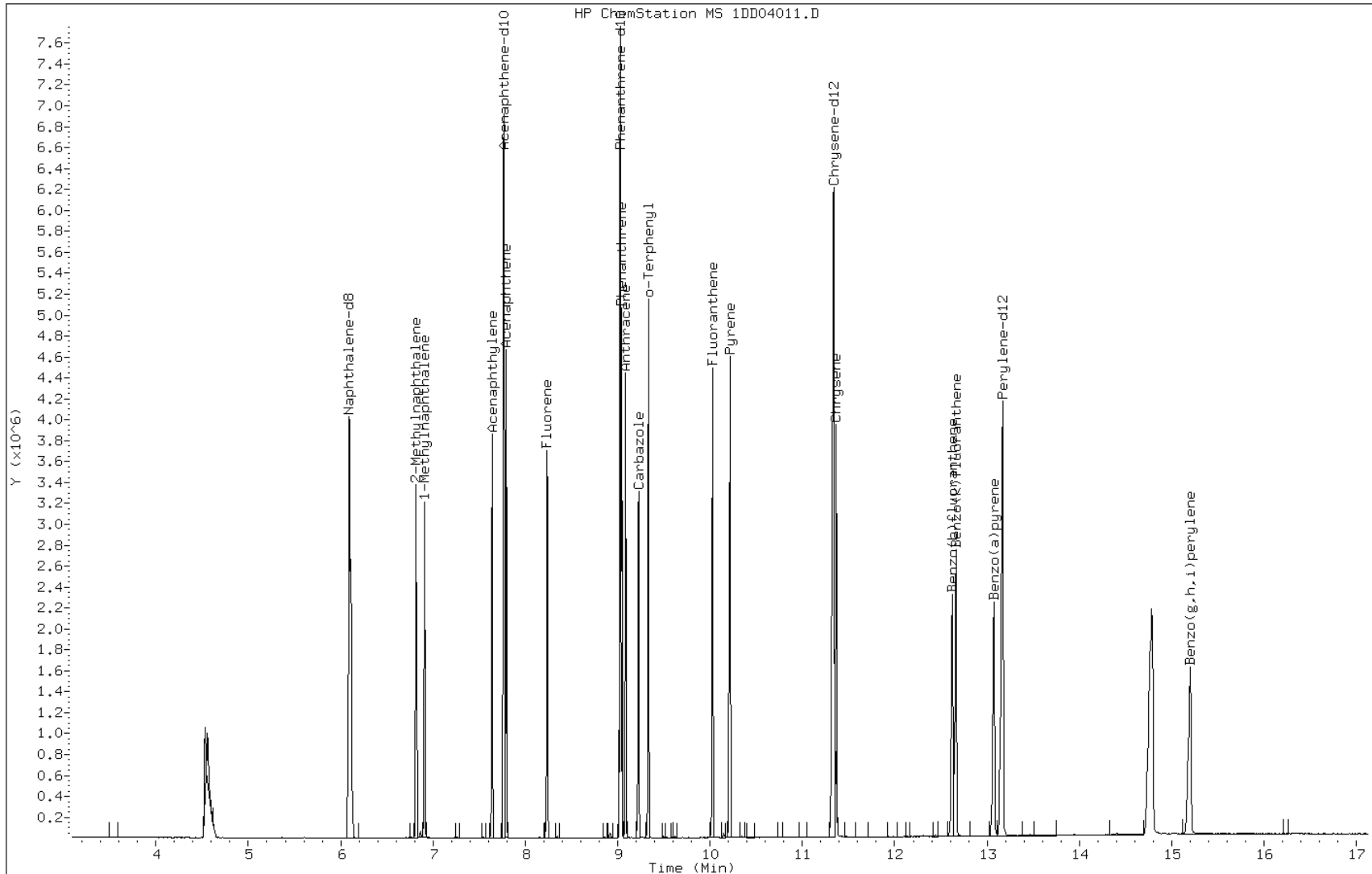
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

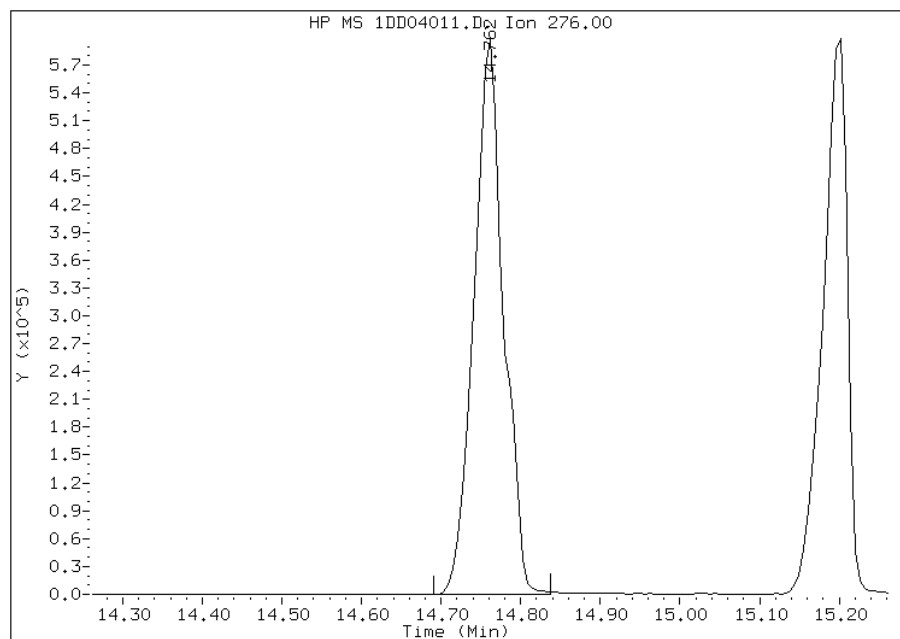


Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

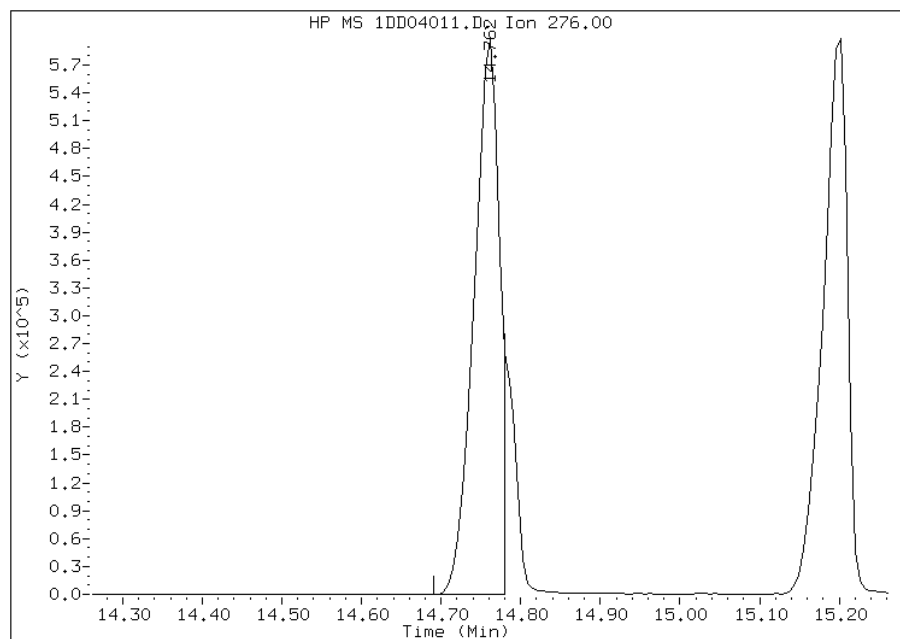
Processing Integration Results

RT: 14.76
Response: 1546230
Amount: 22
Conc: 22



Manual Integration Results

RT: 14.76
Response: 1333044
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
 Lab Smp Id: IC-1531402
 Inj Date : 04-APR-2013 15:42
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531402
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
 Als bottle: 10 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
* 6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
\$ 13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
* 17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
* 22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04012.D

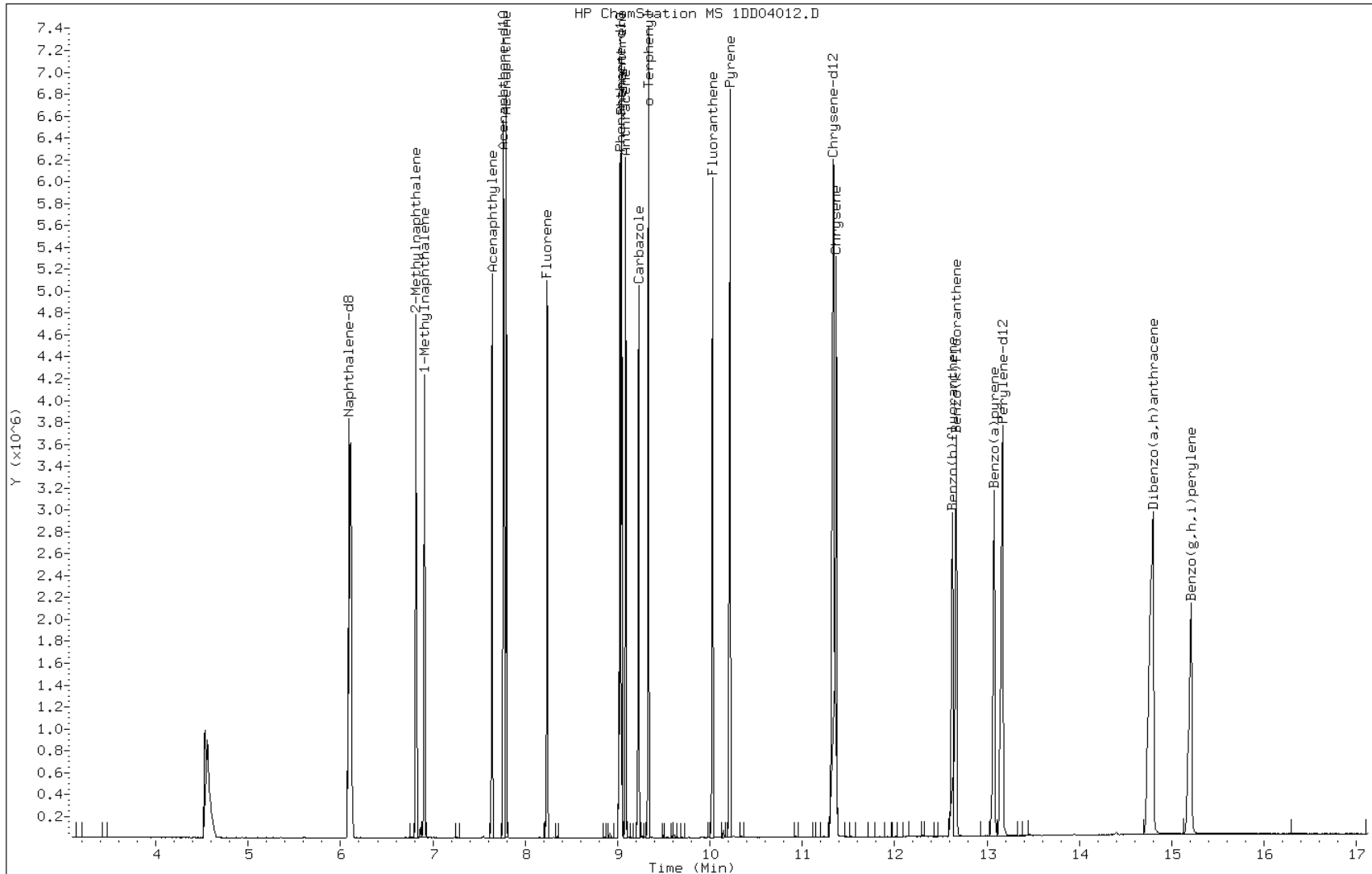
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

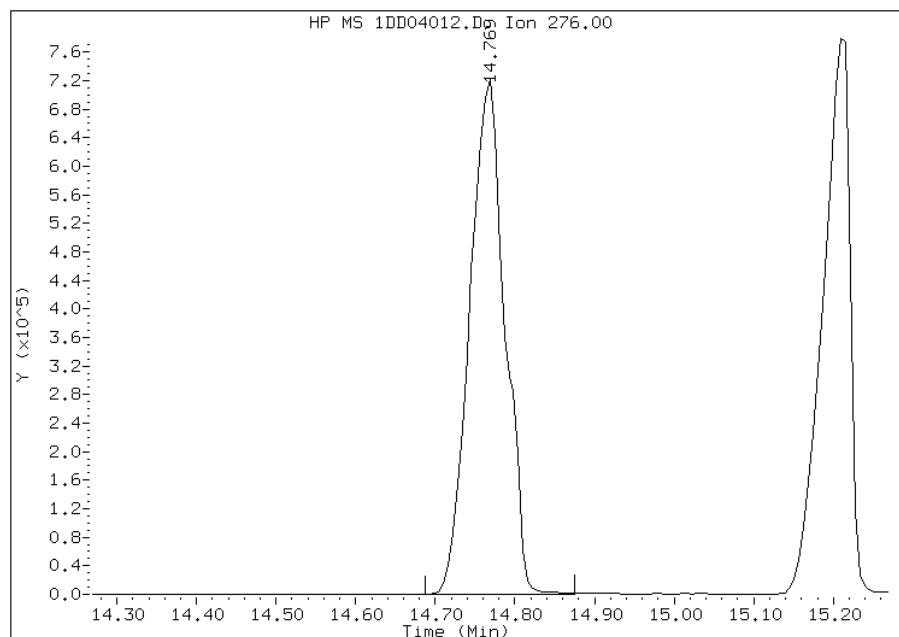


Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

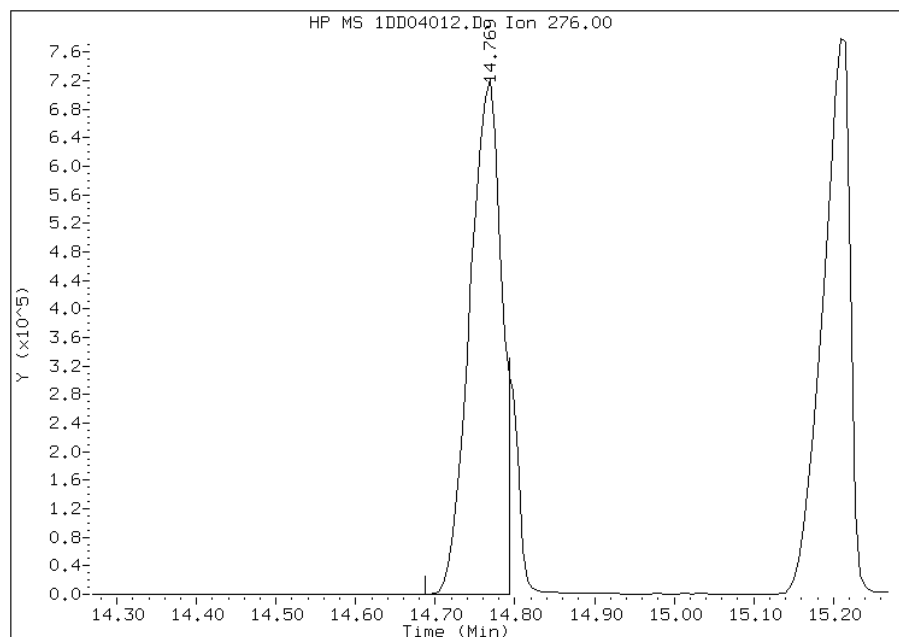
Processing Integration Results

RT: 14.77
Response: 2221522
Amount: 32
Conc: 32



Manual Integration Results

RT: 14.77
Response: 2011375
Amount: 32
Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
 Lab Smp Id: IC-1531403
 Inj Date : 04-APR-2013 16:04
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531403
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dfASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
 Als bottle: 11 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000	
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000	
\$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000	57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000	
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000	53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000	54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000	54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000	56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000	54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000	54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000	54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000	55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000	55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000	55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000	53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000	50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000	52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000	54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000	53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000	54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000	57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000	54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1DD04013.D

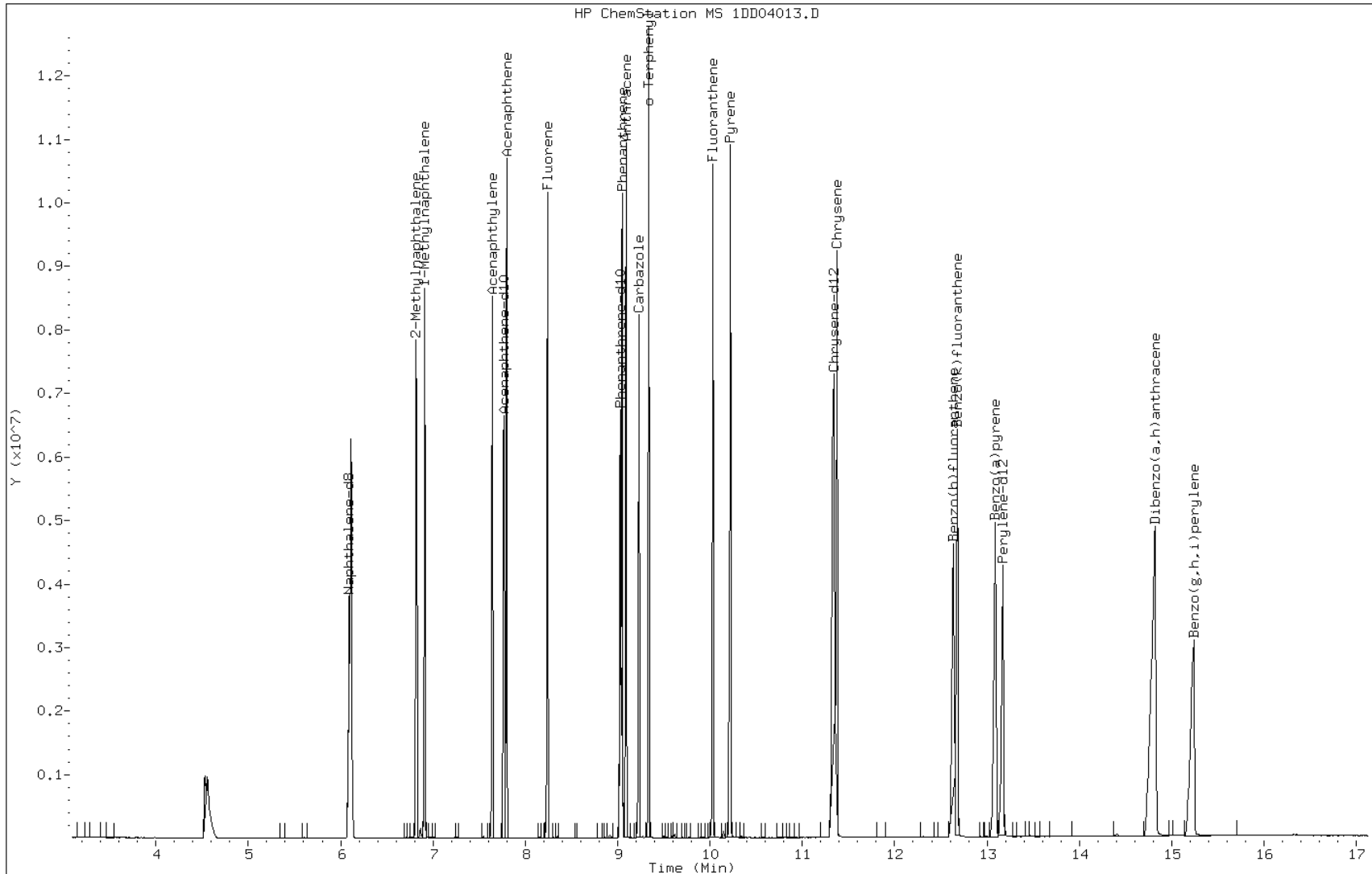
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

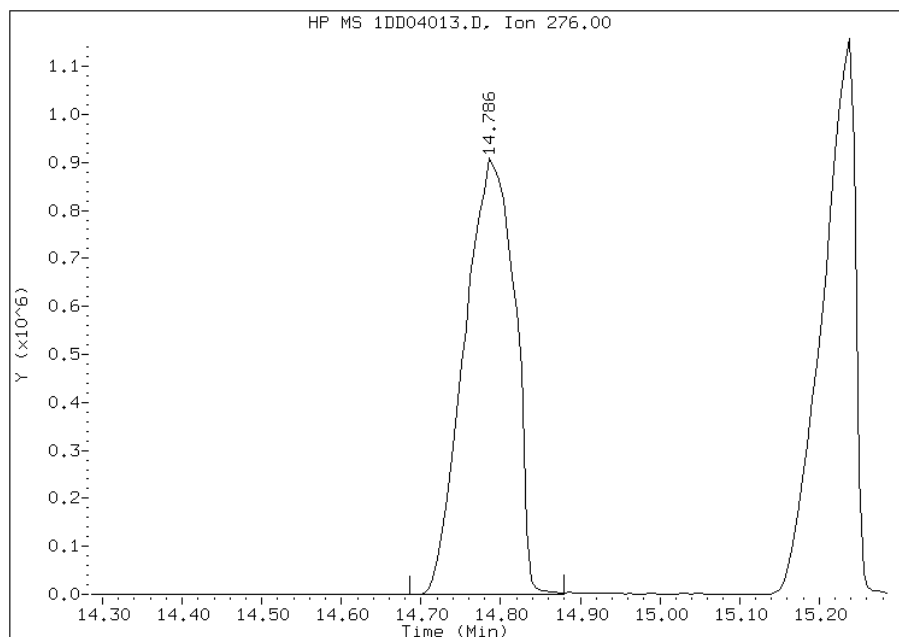


Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

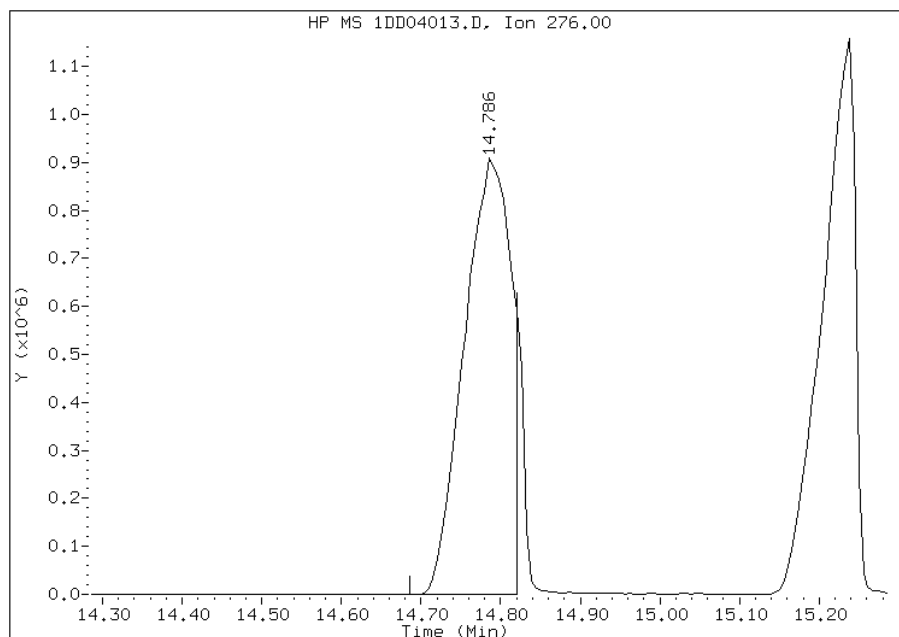
Processing Integration Results

RT: 14.79
Response: 3993028
Amount: 54
Conc: 54



Manual Integration Results

RT: 14.79
Response: 3754268
Amount: 57
Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06
 Lab File ID: 1CD11010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	17900	20000	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	19800	20000	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	19500	20000	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	17700	20000	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	19900	20000	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	19100	20000	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	18500	20000	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	19700	20000	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	17200	20000	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	19300	20000	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	17100	20000	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	19600	20000	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	17200	20000	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	17300	20000	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	18700	20000	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	18800	20000	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17900	20000	-10.6	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 11-APR-2013 14:25
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\A-BFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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		3.674	3.675	(1.000)	273342	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	204687	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	380421	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	108232	17.8704	17.8703	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	501991	40.0000		
* 23 Perylene-d12	264		8.798	8.798	(1.000)	491170	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	132124	17.8815	17.8815	
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	96442	19.7889	19.7889	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	92254	19.5465	19.5464	
5 Acenaphthylene	152		4.674	4.675	(0.981)	163781	18.8832	18.8832	
7 Acenaphthene	154		4.780	4.781	(1.004)	92455	17.6882	17.6882	
9 Fluorene	166		5.098	5.104	(1.070)	132282	19.8871	19.8871	
11 Phenanthrene	178		5.721	5.722	(1.003)	201336	18.1160	18.1159	
12 Anthracene	178		5.757	5.757	(1.009)	210753	19.0830	19.0829	
13 Carbazole	167		5.863	5.863	(1.028)	190681	18.5382	18.5381	
15 Fluoranthene	202		6.551	6.557	(1.148)	243606	19.7397	19.7396	
16 Pyrene	202		6.721	6.722	(0.880)	245865	17.2161	17.2160	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228		7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252		8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252		8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276		9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278		9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276		10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

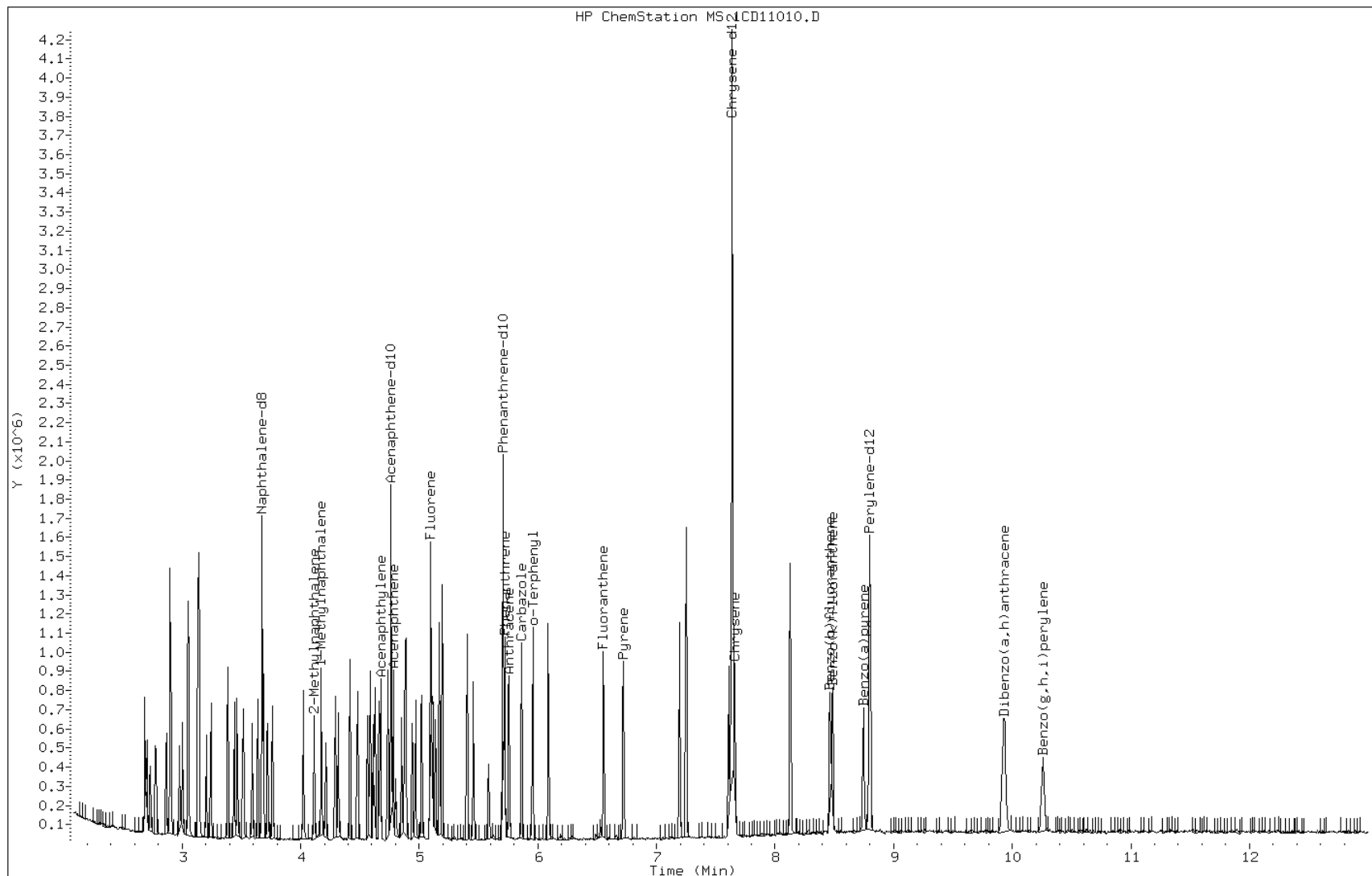
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

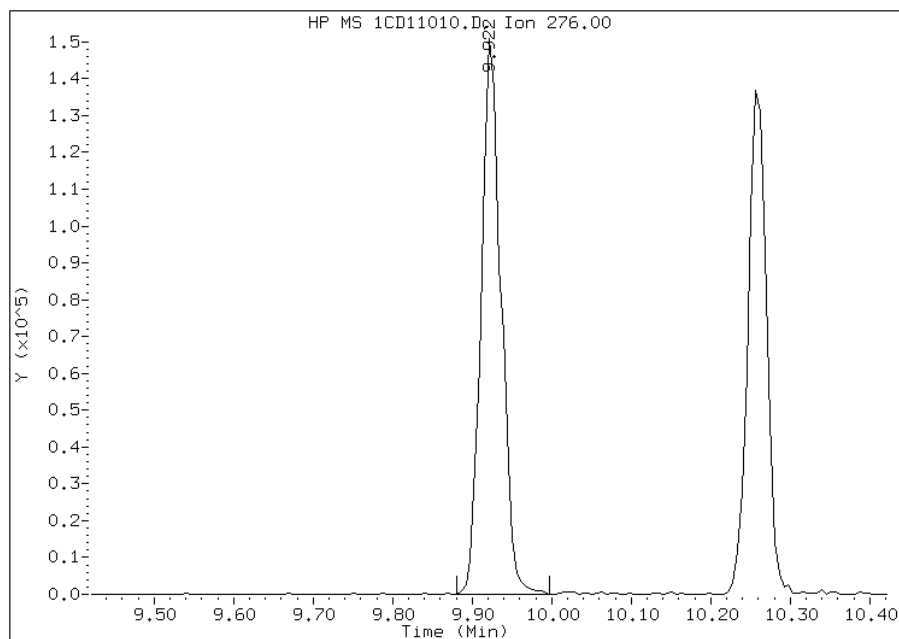


Manual Integration Report

Data File: 1CD11010.D
Inj. Date and Time: 11-APR-2013 14:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

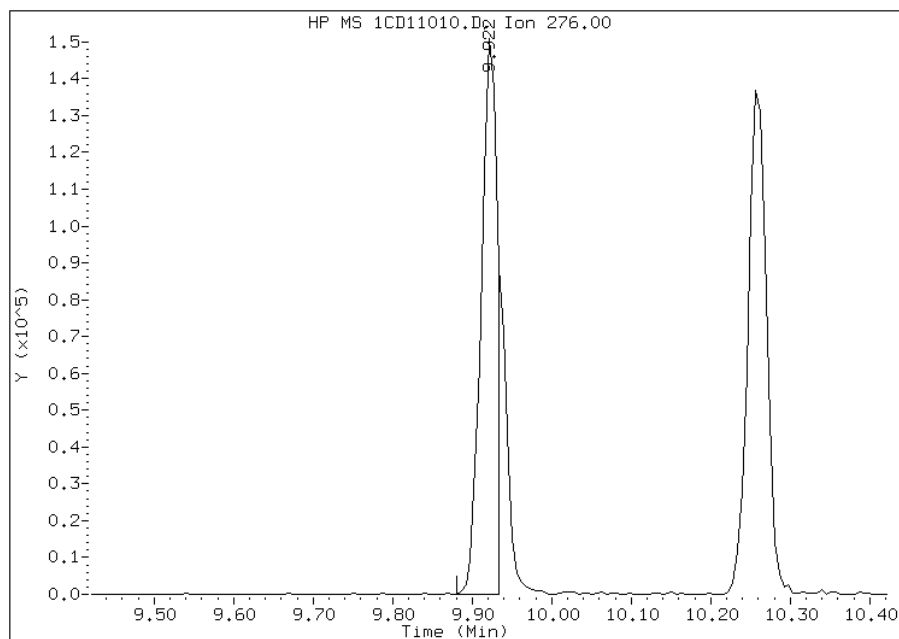
Processing Integration Results

RT: 9.92
Response: 260276
Amount: 21
Conc: 21



Manual Integration Results

RT: 9.92
Response: 212104
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:46
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab Sample ID: CCVIS 660-136414/3 Calibration Date: 04/12/2013 11:42
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06
 Lab File ID: 1CD12003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.059	0.0000	19600	20000	-2.0	20.0
2-Methylnaphthalene	Lin	0.6730	0.7032	0.0000	19700	20000	-1.4	20.0
1-Methylnaphthalene	Ave	0.6907	0.6809	0.0000	19700	20000	-1.4	20.0
Acenaphthylene	Ave	1.695	1.661	0.0000	19600	20000	-2.0	20.0
Acenaphthene	Ave	1.021	1.058	0.0000	20700	20000	3.6	20.0
Fluorene	Ave	1.300	1.249	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Qua	1.293	1.175	0.0000	20100	20000	0.6	20.0
Anthracene	Ave	1.161	1.132	0.0000	19500	20000	-2.5	20.0
Carbazole	Ave	1.082	1.031	0.0000	19100	20000	-4.7	20.0
Fluoranthene	Ave	1.298	1.277	0.0000	19700	20000	-1.6	20.0
Pyrene	Ave	1.138	1.147	0.0000	20200	20000	0.8	20.0
Benzo[a]anthracene	LinF	1.279	1.134	0.0000	20100	20000	0.3	20.0
Chrysene	Ave	1.119	1.171	0.0000	20900	20000	4.6	20.0
Benzo[b]fluoranthene	Ave	1.010	1.021	0.0000	20200	20000	1.1	20.0
Benzo[k]fluoranthene	Ave	1.143	1.130	0.0000	19800	20000	-1.2	20.0
Benzo[a]pyrene	Ave	1.044	1.076	0.0000	20600	20000	3.0	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9743	0.0000	19400	20000	-2.9	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9486	0.0000	19000	20000	-5.1	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9681	0.0000	19800	20000	-1.1	20.0
o-Terphenyl	Lin	0.5859	0.6410	0.0000	20000	20000	0.2	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12003.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 12-APR-2013 11:42
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.669	3.669	(1.000)	213285	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	157125	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	284319	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.951	(1.043)	91118	20.0000	20.0426
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	363427	40.0000	
* 23 Perylene-d12	264		8.792	8.792	(1.000)	403166	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	112978	20.0000	19.5957
3 2-Methylnaphthalene	142		4.110	4.110	(1.120)	74992	20.0000	19.7214
4 1-Methylnaphthalene	142		4.169	4.169	(1.136)	72617	20.0000	19.7182
5 Acenaphthylene	152		4.669	4.669	(0.981)	130470	20.0000	19.5960
7 Acenaphthene	154		4.774	4.774	(1.004)	83098	20.0000	20.7104
9 Fluorene	166		5.098	5.098	(1.072)	98134	20.0000	19.2191
11 Phenanthrene	178		5.716	5.716	(1.002)	167078	20.0000	20.1280
12 Anthracene	178		5.751	5.751	(1.008)	160893	20.0000	19.4925
13 Carbazole	167		5.857	5.857	(1.027)	146509	20.0000	19.0582
15 Fluoranthene	202		6.551	6.551	(1.148)	181589	20.0000	19.6879
16 Pyrene	202		6.716	6.716	(0.879)	208441	20.0000	20.1604
17 Benzo(a)anthracene	228		7.627	7.627	(0.998)	206076	20.0000	20.0521
19 Chrysene	228		7.657	7.657	(1.002)	212747	20.0000	20.9262
20 Benzo(b)fluoranthene	252		8.457	8.457	(0.962)	205835	20.0000	20.2137
21 Benzo(k)fluoranthene	252		8.480	8.480	(0.965)	227789	20.0000	19.7689
22 Benzo(a)pyrene	252		8.739	8.739	(0.994)	216885	20.0000	20.6047
24 Indeno(1,2,3-cd)pyrene	276		9.921	9.921	(1.128)	196395	20.0000	19.4198(M)
25 Dibenzo(a,h)anthracene	278		9.933	9.933	(1.130)	191229	20.0000	18.9700
26 Benzo(g,h,i)perylene	276		10.256	10.256	(1.167)	195147	20.0000	19.7797

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD12003.D

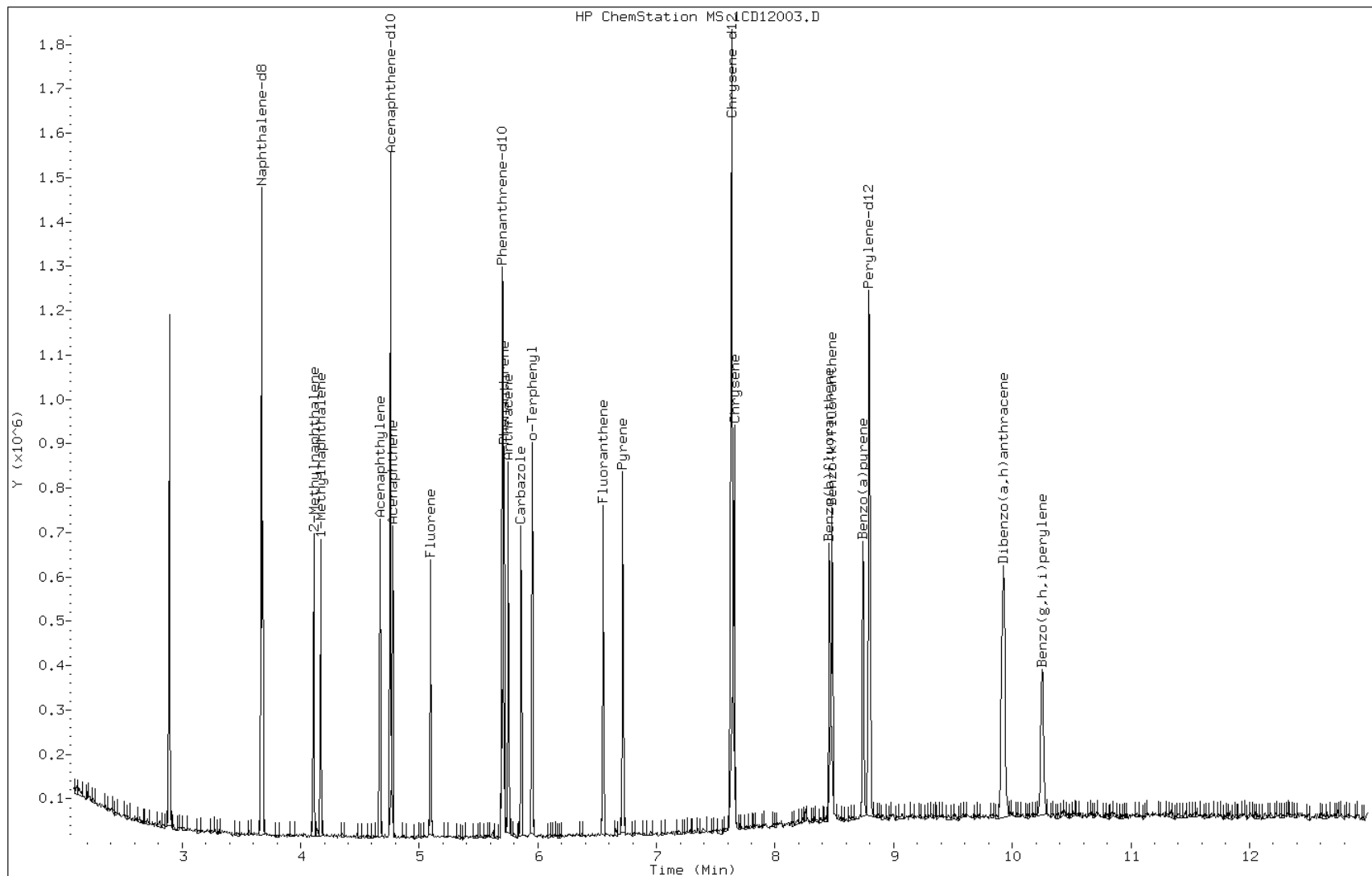
Date: 12-APR-2013 11:42

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

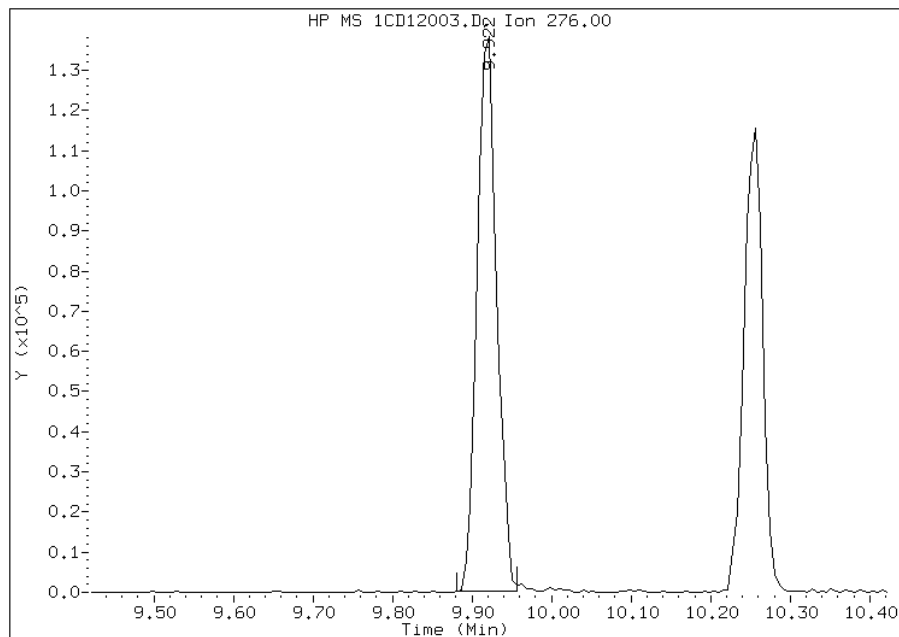


Manual Integration Report

Data File: 1CD12003.D
Inj. Date and Time: 12-APR-2013 11:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

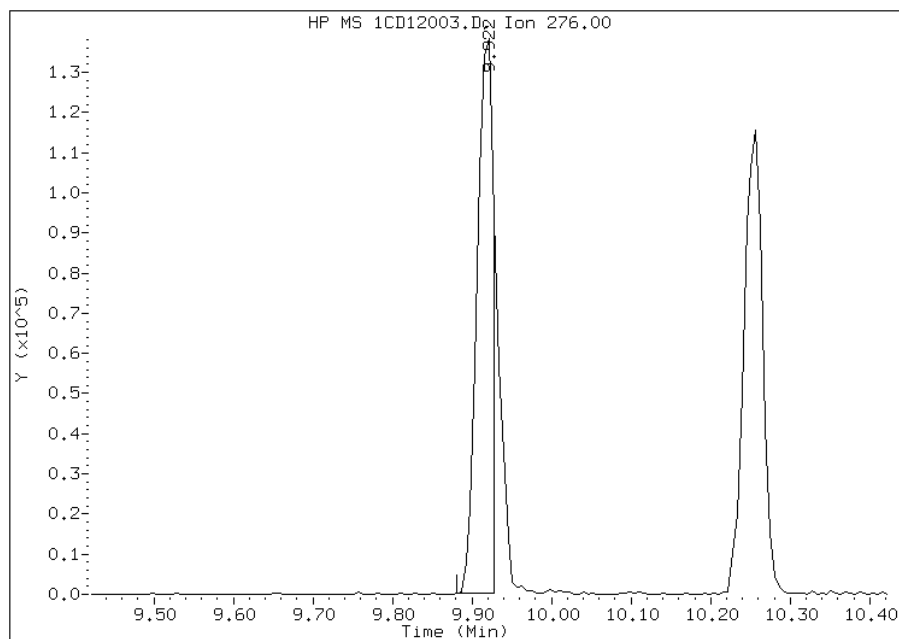
Processing Integration Results

RT: 9.92
Response: 235497
Amount: 23
Conc: 23



Manual Integration Results

RT: 9.92
Response: 196395
Amount: 19
Conc: 19



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 11:58
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD04014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	18100	20000	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	18600	20000	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	18800	20000	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	16900	20000	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	16300	20000	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	17800	20000	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	16300	20000	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	16800	20000	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	14200	20000	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	17500	20000	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	15900	20000	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	17000	20000	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	16100	20000	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	17800	20000	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	16600	20000	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	15300	20000	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	16000	20000	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	18800	20000	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	17000	20000	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16600	20000	-17.2	35.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
 Lab Smp Id: ICV-1448440
 Inj Date : 04-APR-2013 16:27
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dfASTPAHi.m
 Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 12 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136		6.096	6.090	(1.000)	3619899	40.0000		
* 6 Acenaphthene-d10	164		7.771	7.770	(1.000)	2333423	40.0000		
* 9 Phenanthrene-d10	188		9.028	9.028	(1.000)	3845474	40.0000		
\$ 13 o-Terphenyl	230		9.334	9.339	(1.034)	959307	16.5566	16	
* 17 Chrysene-d12	240		11.349	11.349	(1.000)	3963674	40.0000		
* 22 Perylene-d12	264		13.182	13.176	(1.000)	3958481	40.0000		
2 Naphthalene	128		6.114	6.114	(1.003)	1630598	18.1229	18	
3 2-Methylnaphthalene	142		6.819	6.819	(1.119)	1078163	18.5630	18	
4 1-Methylnaphthalene	142		6.913	6.913	(1.134)	1031118	18.7992	19	
5 Acenaphthylene	152		7.642	7.641	(0.983)	1669244	16.9019	17	
7 Acenaphthene	154		7.800	7.800	(1.004)	994282	16.3100	16	
8 Fluorene	166		8.241	8.240	(1.060)	1281905	17.7572	18	
10 Phenanthrene	178		9.046	9.051	(1.002)	1729949	16.3322	16	
11 Anthracene	178		9.087	9.092	(1.007)	1768381	16.8207	17	
12 Carbazole	167		9.228	9.233	(1.022)	1319041	14.2242	14(M)	
14 Fluoranthene	202		10.027	10.032	(1.111)	1910613	17.5287	18	
15 Pyrene	202		10.215	10.220	(0.900)	1898084	15.9464	16	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

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

Data File: 1DD04014.D

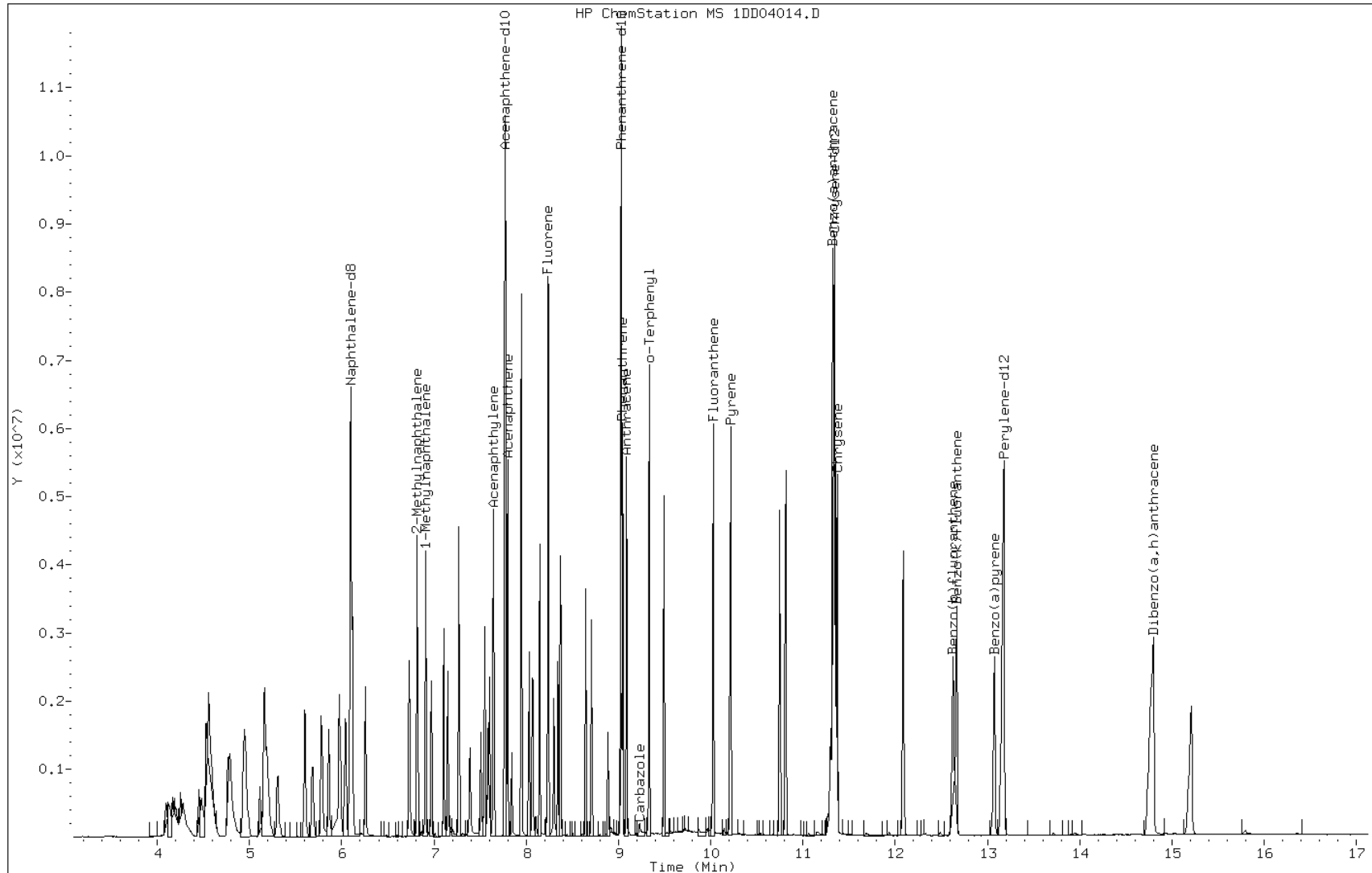
Date: 04-APR-2013 16:27

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

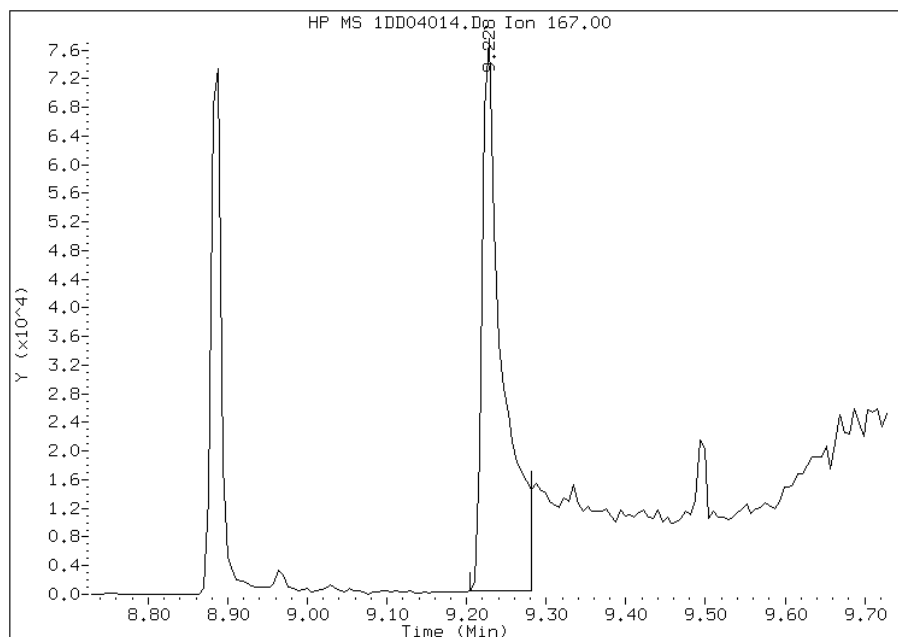


Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMDS.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

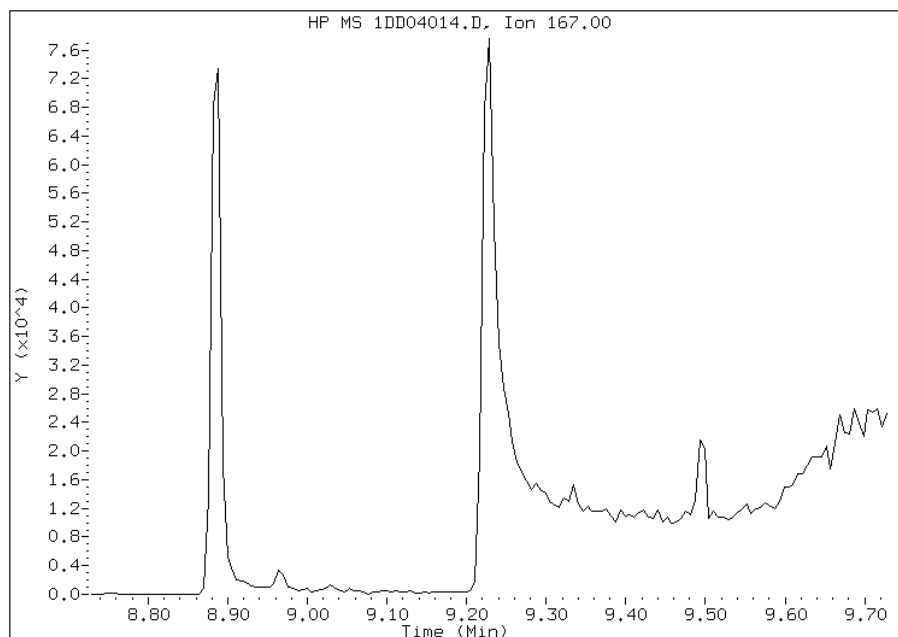
Processing Integration Results

RT: 9.23
Response: 136620
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.23
Response: 1319041
Amount: 14
Conc: 14



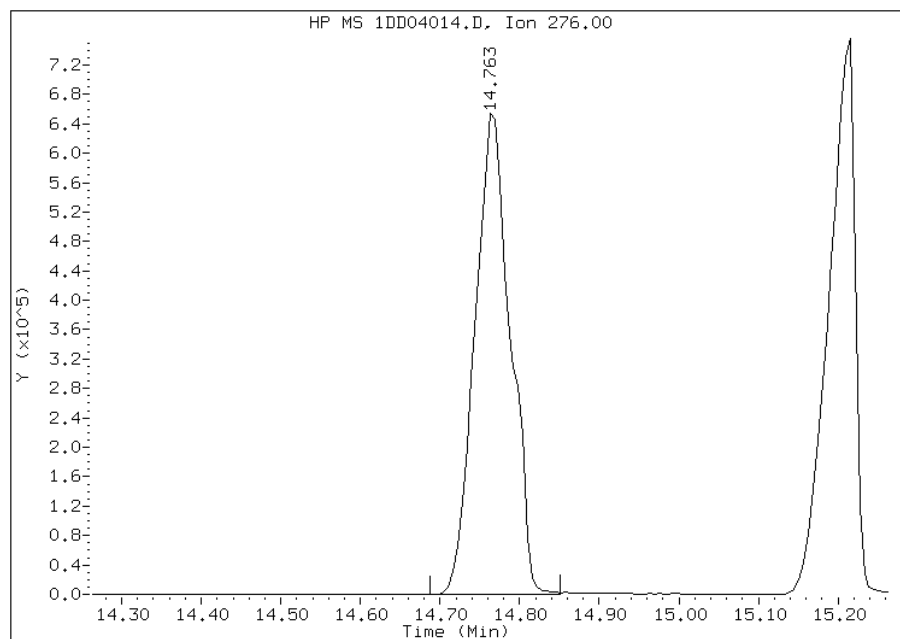
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMDS.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

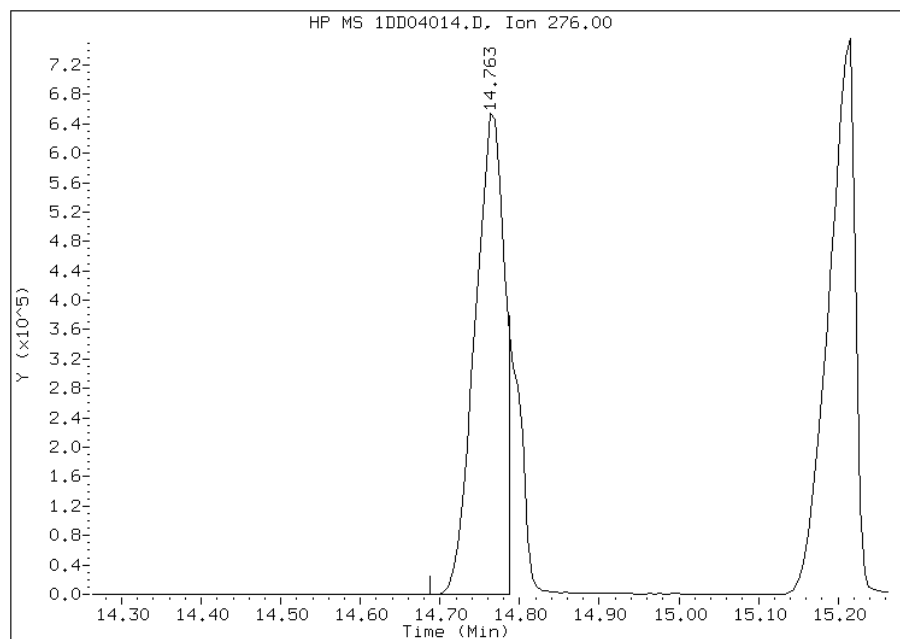
Processing Integration Results

RT: 14.76
Response: 2024721
Amount: 19
Conc: 19



Manual Integration Results

RT: 14.76
Response: 1694283
Amount: 16
Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Lab Sample ID: CCVIS 660-136371/4 Calibration Date: 04/11/2013 11:20
 Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/04/2013 16:04
 Lab File ID: 1DD11004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9912	0.0000	19900	20000	-0.3	20.0
2-Methylnaphthalene	Ave	0.6418	0.6595	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6061	0.6269	0.0000	20700	20000	3.4	20.0
Acenaphthylene	Ave	1.693	1.709	0.0000	20200	20000	0.9	20.0
Acenaphthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Fluorene	Ave	1.238	1.252	0.0000	20200	20000	1.2	20.0
Phenanthrene	Ave	1.102	1.069	0.0000	19400	20000	-3.0	20.0
Anthracene	Ave	1.094	1.087	0.0000	19900	20000	-0.6	20.0
Carbazole	Ave	0.9646	0.9360	0.0000	19400	20000	-3.0	20.0
Fluoranthene	Ave	1.134	1.162	0.0000	20500	20000	2.5	20.0
Pyrene	Ave	1.201	1.180	0.0000	19700	20000	-1.7	20.0
Benzo[a]anthracene	Ave	1.156	1.038	0.0000	18000	20000	-10.2	20.0
Chrysene	Ave	1.084	1.032	0.0000	19000	20000	-4.8	20.0
Benzo[b]fluoranthene	Ave	0.999	1.011	0.0000	20200	20000	1.2	20.0
Benzo[k]fluoranthene	Ave	1.053	1.056	0.0000	20100	20000	0.3	20.0
Benzo[a]pyrene	Ave	1.004	1.010	0.0000	20100	20000	0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.069	0.0000	20000	20000	-0.2	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.011	0.0000	20100	20000	0.3	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.016	0.0000	19700	20000	-1.4	20.0
o-Terphenyl	Ave	0.6027	0.6224	0.0000	20700	20000	3.3	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11004.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 11-APR-2013 11:20
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dfASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.078	6.078	(1.000)	2567445	40.0000	
* 6 Acenaphthene-d10	164	7.752	7.752	(1.000)	1567812	40.0000	
* 9 Phenanthrene-d10	188	9.016	9.016	(1.000)	2682457	40.0000	
\$ 13 o-Terphenyl	230	9.327	9.327	(1.035)	834712	20.0000	21
* 17 Chrysene-d12	240	11.331	11.331	(1.000)	2805579	40.0000	
* 22 Perylene-d12	264	13.158	13.158	(1.000)	2830113	40.0000	
2 Naphthalene	128	6.096	6.096	(1.003)	1272370	20.0000	20
3 2-Methylnaphthalene	142	6.801	6.801	(1.119)	846572	20.0000	20
4 1-Methylnaphthalene	142	6.895	6.895	(1.134)	804760	20.0000	21
5 Acenaphthylene	152	7.623	7.623	(0.983)	1339467	20.0000	20
7 Acenaphthene	154	7.782	7.782	(1.004)	812197	20.0000	20
8 Fluorene	166	8.222	8.222	(1.061)	981323	20.0000	20
10 Phenanthrene	178	9.033	9.033	(1.002)	1433787	20.0000	19
11 Anthracene	178	9.074	9.074	(1.007)	1458017	20.0000	20
12 Carbazole	167	9.215	9.215	(1.022)	1255362	20.0000	19
14 Fluoranthene	202	10.014	10.014	(1.111)	1558514	20.0000	20
15 Pyrene	202	10.208	10.208	(0.901)	1655659	20.0000	20
16 Benzo(a)anthracene	228	11.313	11.313	(0.998)	1456194	20.0000	18
18 Chrysene	228	11.354	11.354	(1.002)	1448271	20.0000	19
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	1430596	20.0000	20
20 Benzo(k)fluoranthene	252	12.653	12.653	(0.962)	1494018	20.0000	20
21 Benzo(a)pyrene	252	13.064	13.064	(0.993)	1429772	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.744	14.744	(1.121)	1512212	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.779	14.779	(1.123)	1431111	20.0000	20
25 Benzo(g,h,i)perylene	276	15.191	15.191	(1.154)	1438108	20.0000	20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD11004.D

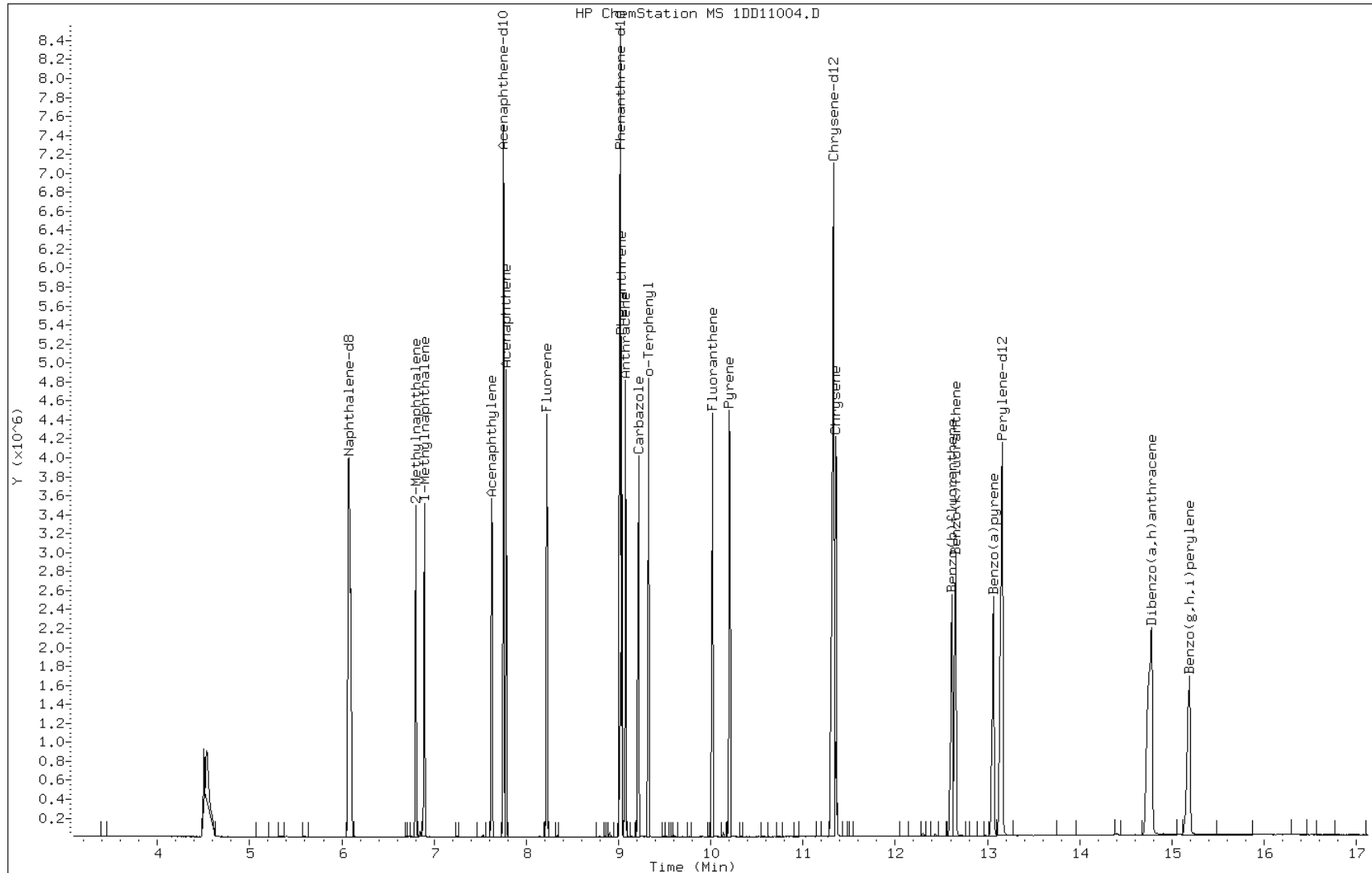
Date: 11-APR-2013 11:20

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1531401

Operator: SCC

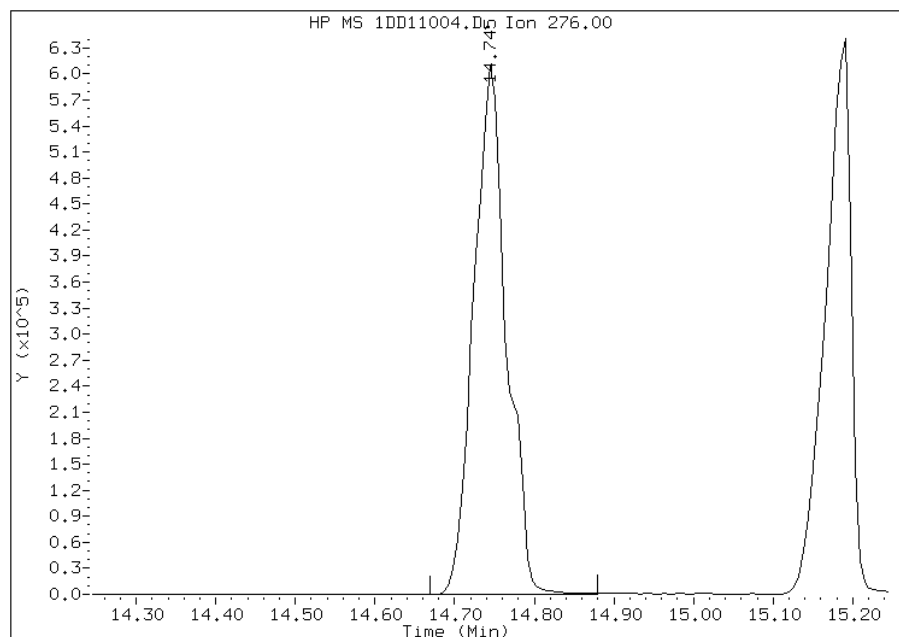


Manual Integration Report

Data File: 1DD11004.D
Inj. Date and Time: 11-APR-2013 11:20
Instrument ID: BSM5D.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

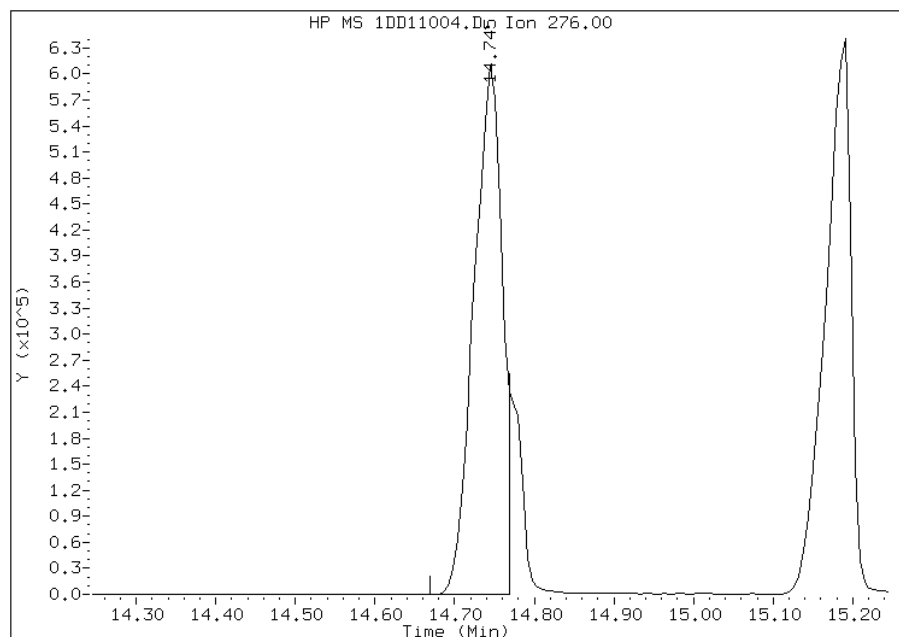
Processing Integration Results

RT: 14.74
Response: 1741216
Amount: 23
Conc: 23



Manual Integration Results

RT: 14.74
Response: 1512212
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 11:41
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 11-APR-2013 11:38
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.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				
7.269	7.469	-0.200	198	54472			50.00-	0.00	100.00
7.269	7.469	-0.200	51	21074			10.00-	80.00	38.69
7.269	7.469	-0.200	68	353			0.00-	2.00	1.33
7.269	7.469	-0.200	69	26600			0.00-	0.00	48.83
7.269	7.469	-0.200	70	132			0.00-	2.00	0.50
7.269	7.469	-0.200	127	25024			10.00-	80.00	45.94
7.269	7.469	-0.200	197	448			0.00-	2.00	0.82
7.269	7.469	-0.200	442	41796			50.00-	0.00	76.73
7.269	7.469	-0.200	199	3165			5.00-	9.00	5.81
7.269	7.469	-0.200	275	11356			10.00-	60.00	20.85
7.269	7.469	-0.200	365	2771			1.00-	0.00	5.09
7.269	7.469	-0.200	441	5680			0.01-	99.99	64.97
7.269	7.469	-0.200	443	8743			15.00-	24.00	20.92

Data File: 1CD11002.D

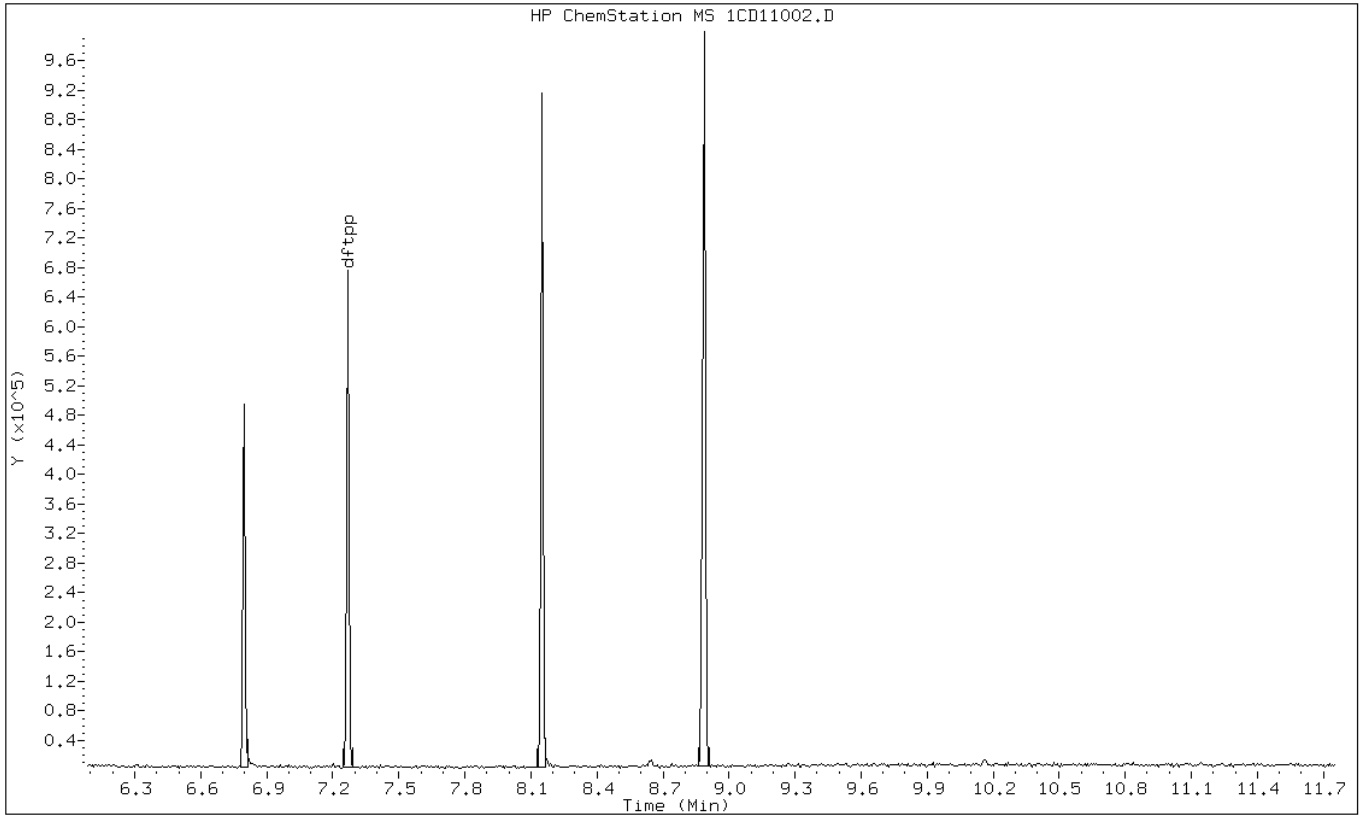
Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD11002.D

Date: 11-APR-2013 11:38

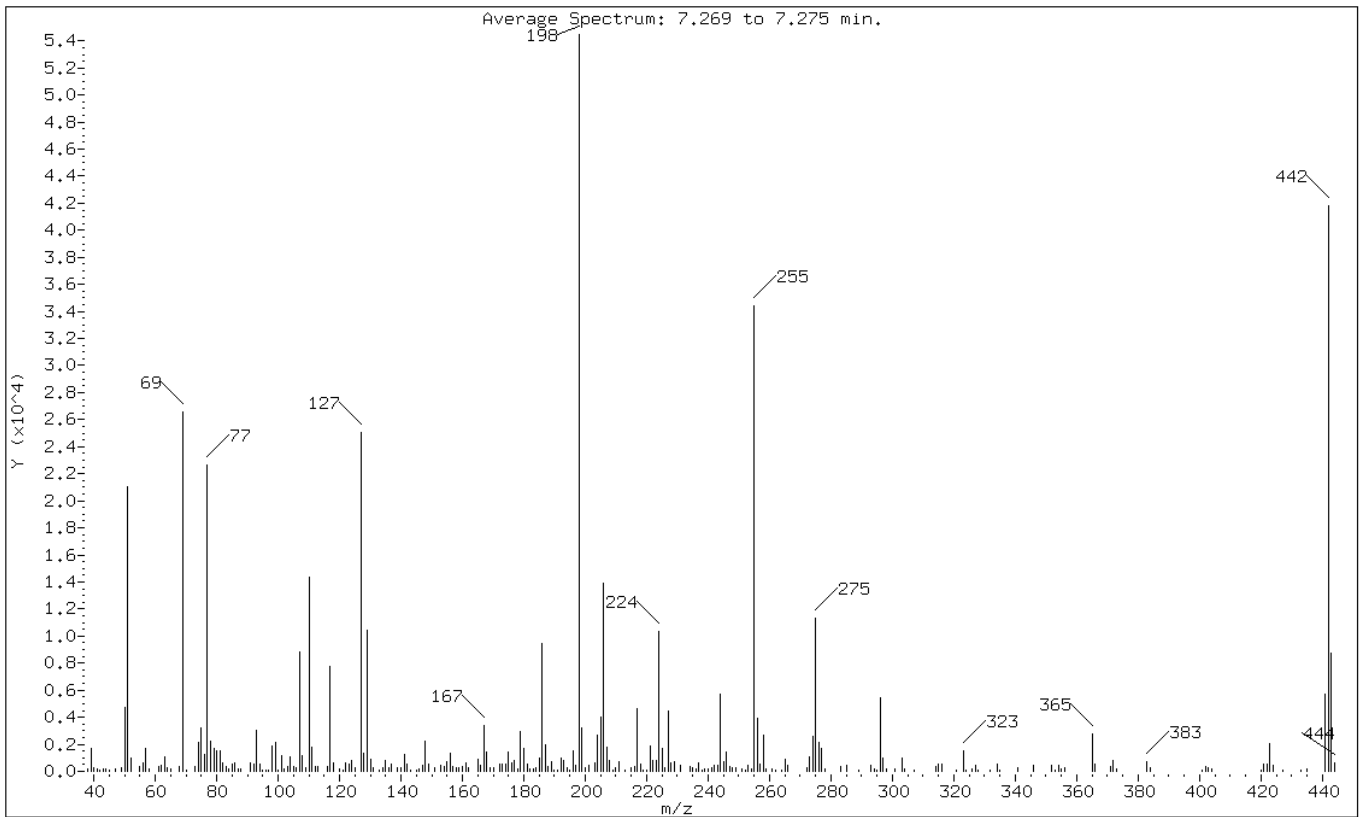
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	38.69
68	Less than 2.00% of mass 69	0.65 (1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 (0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 (20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D

Spectrum: Average Spectrum: 7.269 to 7.275 min.

Location of Maximum: 198.00

Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231

88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
+-----+-----+-----+-----+-----+-----+-----+-----+							
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
+-----+-----+-----+-----+-----+-----+-----+-----+							
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 12-APR-2013 11:24
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.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				
7.263	7.469	-0.206	198	50028		50.00- 0.00	100.00		
7.263	7.469	-0.206	51	24452		10.00- 80.00	48.88		
7.263	7.469	-0.206	68	120		0.00- 2.00	0.46		
7.263	7.469	-0.206	69	26336		0.00- 0.00	52.64		
7.263	7.469	-0.206	70	342		0.00- 2.00	1.30		
7.263	7.469	-0.206	127	24724		10.00- 80.00	49.42		
7.263	7.469	-0.206	197	0	0.0	0.00- 2.00	0.00		
7.263	7.469	-0.206	442	36700		50.00- 0.00	73.36		
7.263	7.469	-0.206	199	3620		5.00- 9.00	7.24		
7.263	7.469	-0.206	275	10374		10.00- 60.00	20.74		
7.263	7.469	-0.206	365	1853		1.00- 0.00	3.70		
7.263	7.469	-0.206	441	5596		0.01- 99.99	73.07		
7.263	7.469	-0.206	443	7658		15.00- 24.00	20.87		

Data File: 1CD12002.D

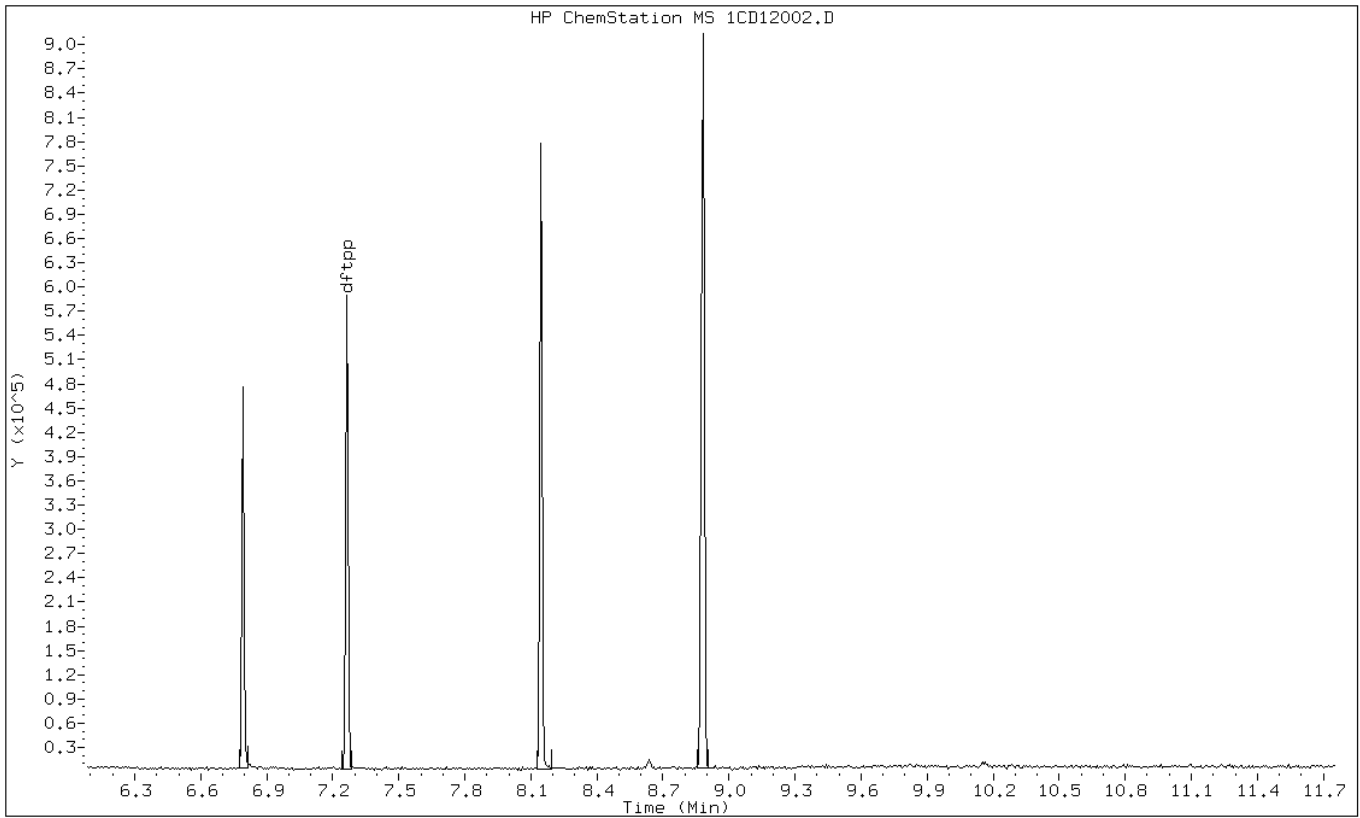
Date: 12-APR-2013 11:24

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD12002.D

Date: 12-APR-2013 11:24

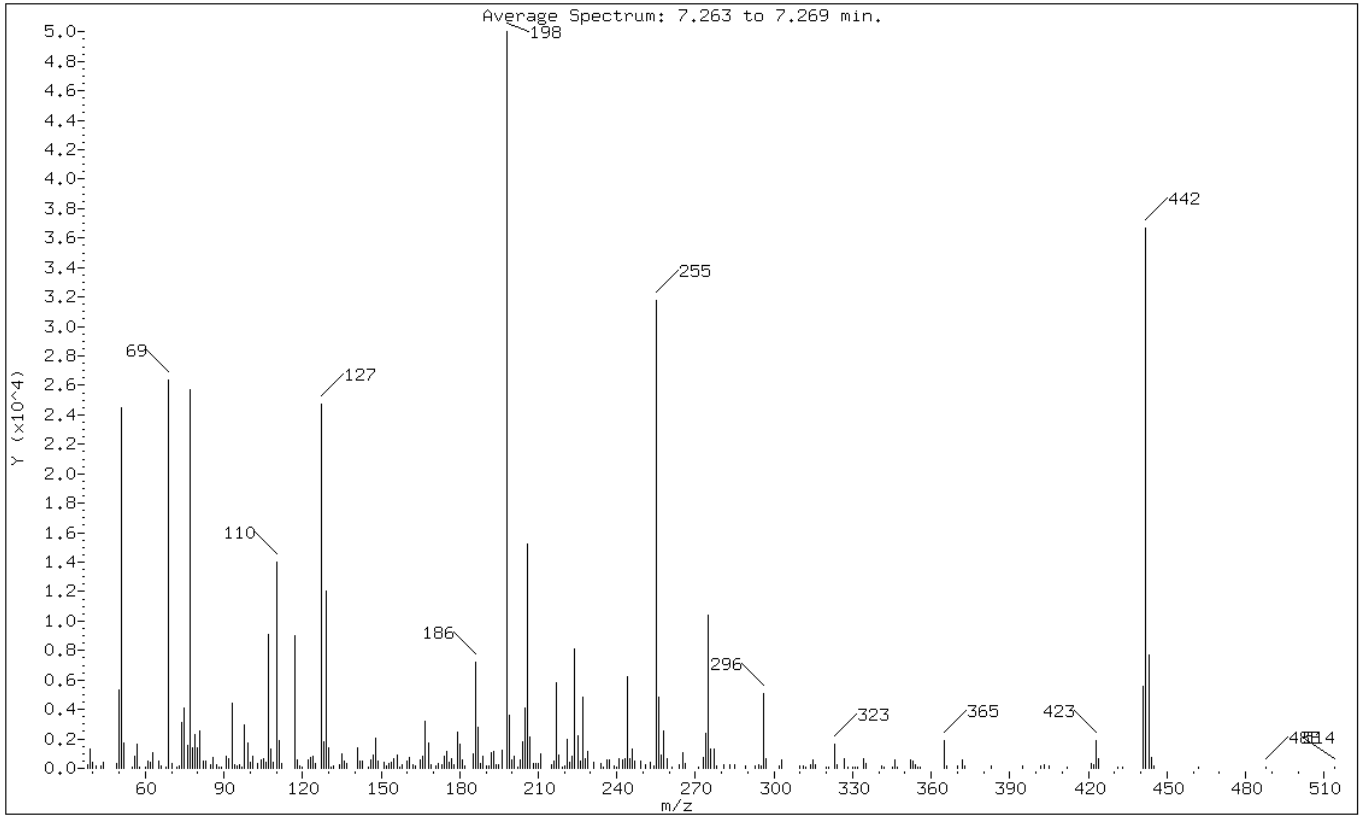
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.24 (0.46)
69	Mass 69 relative abundance	52.64
70	Less than 2.00% of mass 69	0.68 (1.30)
127	10.00 - 80.00% of mass 198	49.42
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.36
199	5.00 - 9.00% of mass 198	7.24
275	10.00 - 60.00% of mass 198	20.74
365	Greater than 1.00% of mass 198	3.70
441	Present, but less than mass 443	11.19
443	15.00 - 24.00% of mass 442	15.31 (20.87)

Data File: 1CD12002.D

Date: 12-APR-2013 11:24

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12002.D

Spectrum: Average Spectrum: 7.263 to 7.269 min.

Location of Maximum: 198.00

Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	235	120.00	77	198.00	50024	283.00	251
39.00	1289	122.00	607	199.00	3620	285.00	285
40.00	394	123.00	702	200.00	545	289.00	193
41.00	132	124.00	829	201.00	823	293.00	135
43.00	124	125.00	338	202.00	84	294.00	250
44.00	424	127.00	24720	203.00	601	295.00	180
49.00	301	128.00	1802	204.00	1804	296.00	5041
50.00	5307	129.00	12073	205.00	4092	297.00	685
51.00	24448	130.00	1401	206.00	15230	302.00	177
52.00	1745	131.00	101	207.00	2109	303.00	574
55.00	77	132.00	175	208.00	313	310.00	148
56.00	822	134.00	226	209.00	290	311.00	147
57.00	1622	135.00	1018	210.00	312	312.00	89
58.00	86	136.00	494	211.00	991	314.00	230
60.00	115	137.00	324	215.00	236	315.00	579
61.00	482	141.00	1371	216.00	503	316.00	285
62.00	394	142.00	484	217.00	5796	320.00	82
63.00	1043	143.00	460	218.00	883	321.00	106
65.00	466	145.00	102	219.00	109	323.00	1678
66.00	136	146.00	569	220.00	191	324.00	259
68.00	120	147.00	871	221.00	1952	327.00	628
69.00	26336	148.00	2013	222.00	441	328.00	114
70.00	342	149.00	456	223.00	848	330.00	104
72.00	79	151.00	407	224.00	8091	331.00	115
73.00	182	152.00	134	225.00	2211	332.00	88
74.00	3131	153.00	349	226.00	463	334.00	652
75.00	4054	154.00	374	227.00	4850	335.00	312
76.00	1549	155.00	672	228.00	637	341.00	152
77.00	25728	156.00	881	229.00	1145	342.00	85
78.00	1366	157.00	80	231.00	407	345.00	106
79.00	2290	158.00	211	234.00	364	346.00	541
80.00	1384	160.00	498	235.00	120	347.00	76
81.00	2542	161.00	772	236.00	549	352.00	598
82.00	477	162.00	221	237.00	580	353.00	461
83.00	527	163.00	146	239.00	129	354.00	267
85.00	254	165.00	613	240.00	89	355.00	86
86.00	762	166.00	801	241.00	630	356.00	81
87.00	215	167.00	3179	242.00	566	365.00	1853
88.00	81	168.00	1712	243.00	640	366.00	197
89.00	92	169.00	248	244.00	6187	370.00	187

91.00	787	171.00	152	245.00	663	372.00	587
92.00	624	172.00	338	246.00	1317	373.00	127
93.00	4447	173.00	269	247.00	528	383.00	180
94.00	280	174.00	785	249.00	520	395.00	136
95.00	198	175.00	1112	251.00	228	402.00	194
96.00	258	176.00	396	253.00	381	403.00	214
97.00	103	177.00	688	254.00	194	405.00	127
98.00	2943	178.00	215	255.00	31776	412.00	80
99.00	1721	179.00	2472	256.00	4792	421.00	367
100.00	389	180.00	1624	257.00	870	422.00	284
101.00	822	181.00	589	258.00	2517	423.00	1849
103.00	314	182.00	168	259.00	640	424.00	616
104.00	556	185.00	998	261.00	117	431.00	90
105.00	682	186.00	7165	264.00	229	433.00	75
106.00	403	187.00	2774	265.00	1026	441.00	5596
107.00	9101	188.00	353	266.00	362	442.00	36696
108.00	1276	189.00	824	271.00	110	443.00	7658
109.00	428	190.00	178	273.00	703	444.00	697
110.00	14021	191.00	181	274.00	2363	445.00	149
111.00	1896	192.00	1032	275.00	10374	462.00	79
112.00	353	193.00	1129	276.00	1340	488.00	82
117.00	9035	194.00	243	277.00	1283	514.00	78
118.00	601	195.00	251	278.00	190		
119.00	151	196.00	1248	281.00	233		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 04-APR-2013 12:15
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.382	8.532	-0.150	198	72572			50.00-	0.00	100.00
8.382	8.532	-0.150	51	32556			10.00-	80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	69	32936			0.00-	0.00	45.38
8.382	8.532	-0.150	70	114			0.00-	2.00	0.35
8.382	8.532	-0.150	127	36680			10.00-	80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00-	2.00	0.00
8.382	8.532	-0.150	442	48716			50.00-	0.00	67.13
8.382	8.532	-0.150	199	4977			5.00-	9.00	6.86
8.382	8.532	-0.150	275	19350			10.00-	60.00	26.66
8.382	8.532	-0.150	365	2279			1.00-	0.00	3.14
8.382	8.532	-0.150	441	2370			0.01-	99.99	23.58
8.382	8.532	-0.150	443	10052			15.00-	24.00	20.63

Data File: 1DD04003.D

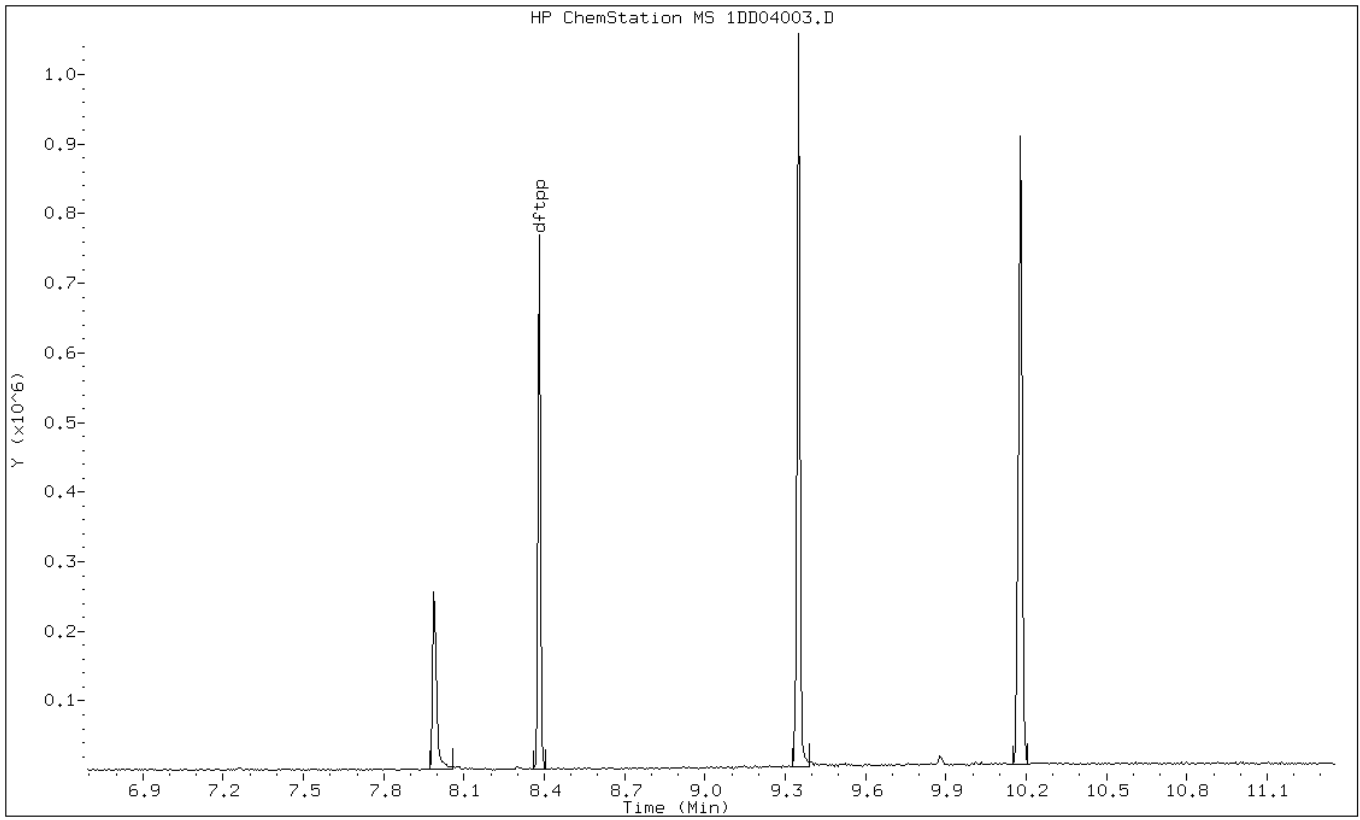
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

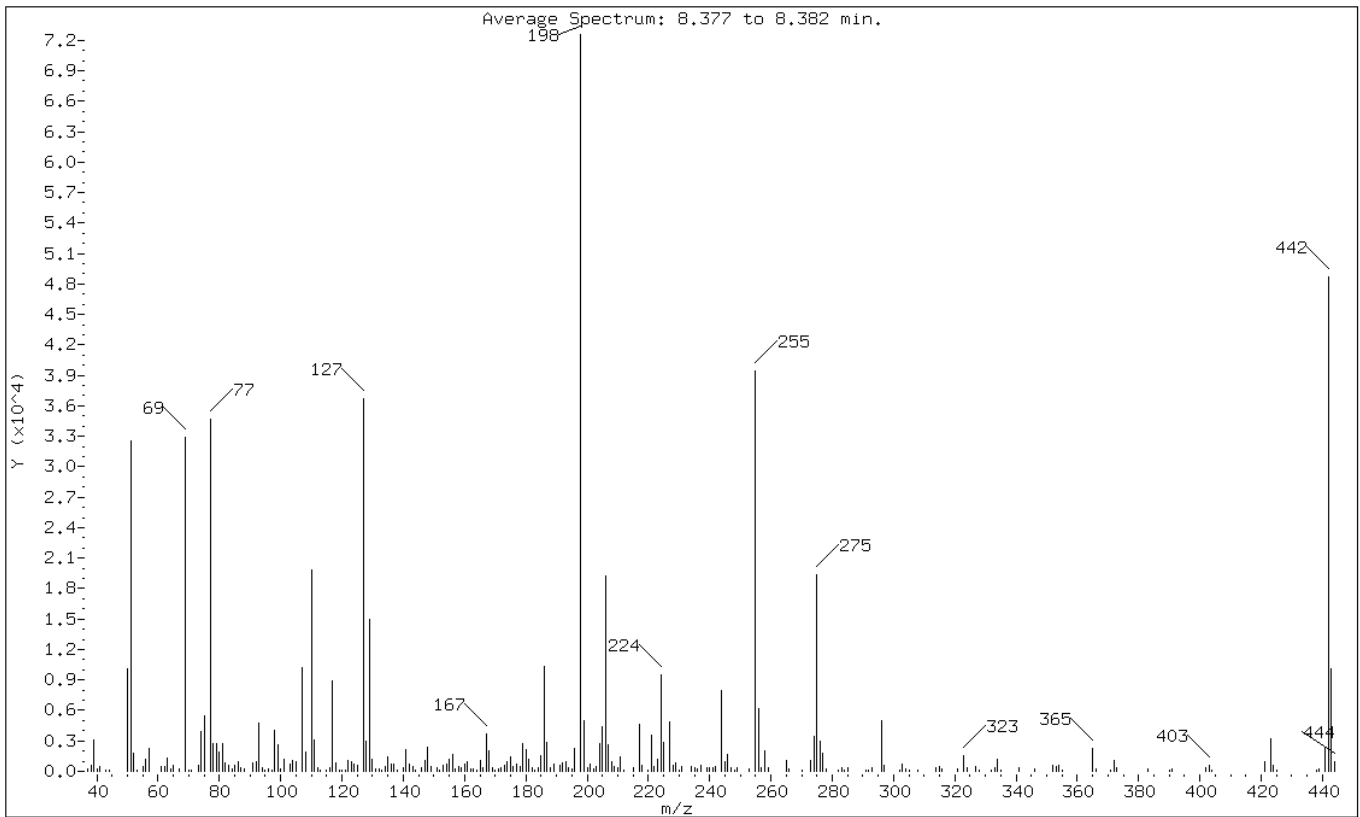
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D

Spectrum: Average Spectrum: 8.377 to 8.382 min.

Location of Maximum: 198.00

Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
+-----+							
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
+-----+							
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
+-----+							
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
+-----+							
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 11-APR-2013 11:00
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET	RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
8.370	8.532	-0.162	198	59500		50.00-	0.00	100.00	
8.370	8.532	-0.162	51	28604		10.00-	80.00	48.07	
8.370	8.532	-0.162	68	0	0.0	0.00-	2.00	0.00	
8.370	8.532	-0.162	69	29416		0.00-	0.00	49.44	
8.370	8.532	-0.162	70	0	0.0	0.00-	2.00	0.00	
8.370	8.532	-0.162	127	30380		10.00-	80.00	51.06	
8.370	8.532	-0.162	197	0	0.0	0.00-	2.00	0.00	
8.370	8.532	-0.162	442	39716		50.00-	0.00	66.75	
8.370	8.532	-0.162	199	4158		5.00-	9.00	6.99	
8.370	8.532	-0.162	275	15824		10.00-	60.00	26.59	
8.370	8.532	-0.162	365	2189		1.00-	0.00	3.68	
8.370	8.532	-0.162	441	1359		0.01-	99.99	17.23	
8.370	8.532	-0.162	443	7887		15.00-	24.00	19.86	

Data File: 1DD11003.D

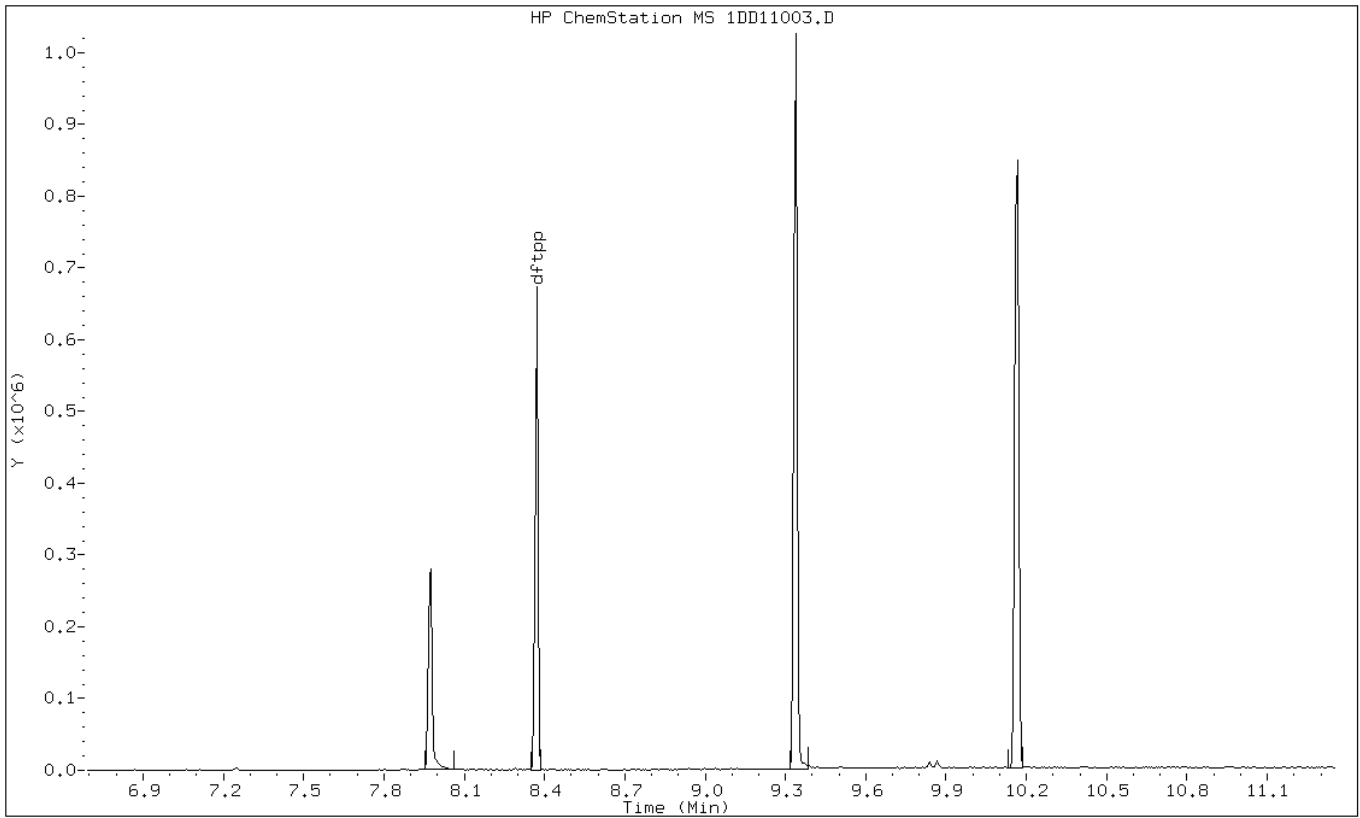
Date: 11-APR-2013 11:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD11003.D

Date: 11-APR-2013 11:00

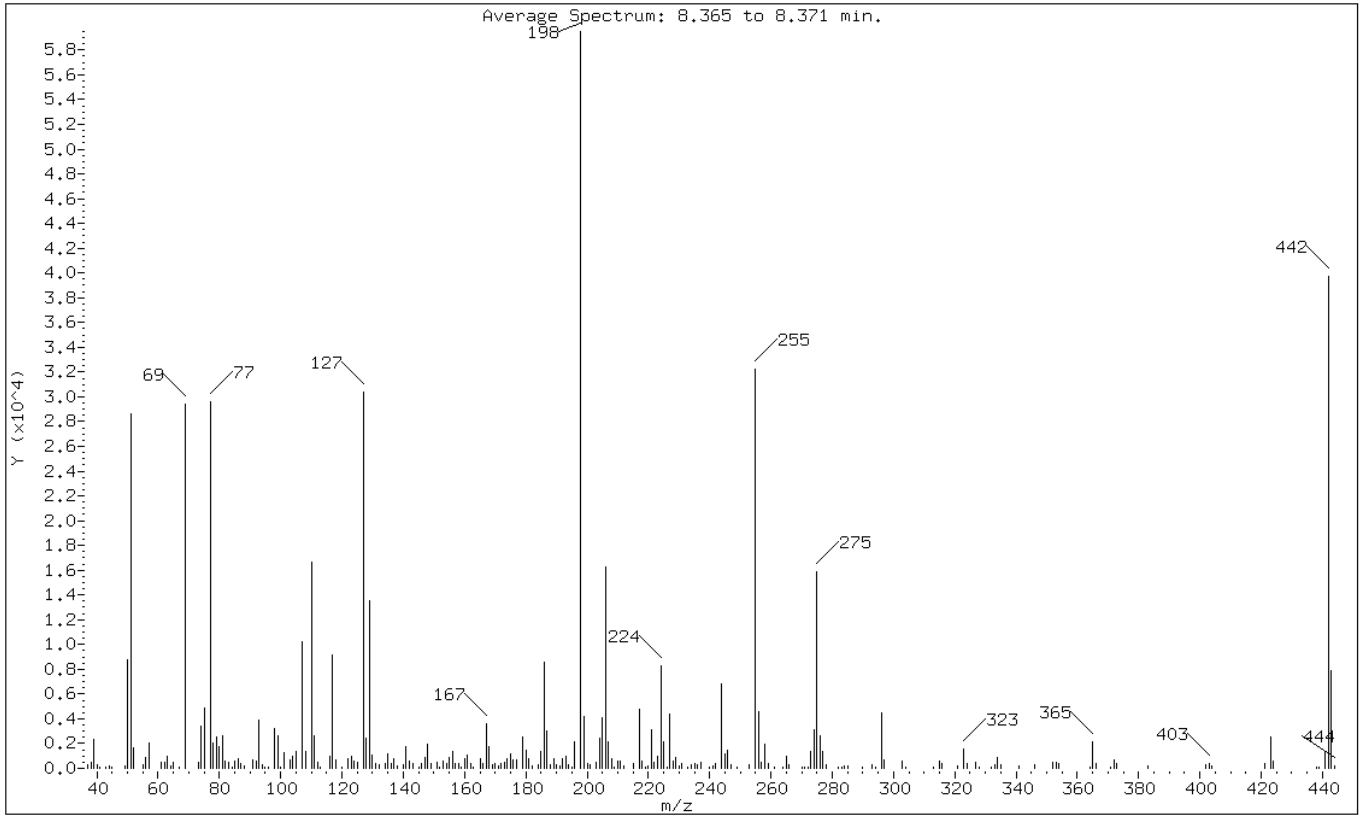
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	48.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.44
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	51.06
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	66.75
199	5.00 - 9.00% of mass 198	6.99
275	10.00 - 60.00% of mass 198	26.59
365	Greater than 1.00% of mass 198	3.68
441	Present, but less than mass 443	2.28
443	15.00 - 24.00% of mass 442	13.26 (19.86)

Data File: 1DD11003.D

Date: 11-APR-2013 11:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMSD.i\1D041113.b\1DD11003.D

Spectrum: Average Spectrum: 8.365 to 8.371 min.

Location of Maximum: 198.00

Number of points: 236

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	266	122.00	748	190.00	259	270.00	81
38.00	486	123.00	976	191.00	233	271.00	119
39.00	2317	124.00	548	192.00	822	272.00	85
40.00	244	125.00	480	193.00	936	273.00	1329
41.00	110	127.00	30376	194.00	259	274.00	3159
43.00	102	128.00	2432	195.00	130	275.00	15824
44.00	203	129.00	13505	196.00	2134	276.00	2584
45.00	80	130.00	1110	198.00	59496	277.00	1353
49.00	239	131.00	381	199.00	4158	278.00	275
50.00	8756	132.00	325	200.00	364	282.00	88
51.00	28600	134.00	359	201.00	292	283.00	106
52.00	1694	135.00	1176	203.00	457	284.00	163
55.00	320	136.00	378	204.00	2436	285.00	239
56.00	828	137.00	792	205.00	4133	290.00	100
57.00	2027	138.00	218	206.00	16242	293.00	256
61.00	449	140.00	298	207.00	2186	294.00	86
62.00	455	141.00	1768	208.00	750	296.00	4469
63.00	1021	142.00	562	209.00	92	297.00	664
64.00	234	143.00	423	210.00	542	303.00	598
65.00	494	145.00	94	211.00	577	304.00	85
67.00	112	146.00	436	212.00	233	313.00	77
69.00	29416	147.00	919	215.00	362	315.00	559
73.00	441	148.00	1974	217.00	4752	316.00	343
74.00	3410	149.00	401	218.00	549	321.00	167
75.00	4828	151.00	448	219.00	109	323.00	1583
77.00	29632	152.00	77	220.00	161	324.00	346
78.00	2038	153.00	563	221.00	3128	327.00	456
79.00	2497	154.00	365	222.00	511	328.00	108
80.00	1798	155.00	897	223.00	949	332.00	95
81.00	2641	156.00	1400	224.00	8244	333.00	264
82.00	621	157.00	403	225.00	2153	334.00	844
83.00	512	158.00	428	226.00	146	335.00	275
84.00	103	159.00	126	227.00	4354	341.00	166
85.00	577	160.00	827	228.00	616	346.00	299
86.00	793	161.00	1050	229.00	888	352.00	512
87.00	425	162.00	350	230.00	188	353.00	530
88.00	207	163.00	116	231.00	410	354.00	403
91.00	665	165.00	811	233.00	108	364.00	87
92.00	555	166.00	398	234.00	286	365.00	2189
93.00	3858	167.00	3574	235.00	425	366.00	391

94.00	329	168.00	1729	236.00	282	371.00	90
95.00	80	169.00	322	237.00	455	372.00	664
96.00	97	170.00	357	240.00	95	373.00	381
98.00	3173	171.00	171	241.00	197	383.00	240
99.00	2642	172.00	341	242.00	402	402.00	337
100.00	117	173.00	528	244.00	6777	403.00	414
101.00	1258	174.00	797	245.00	1129	404.00	149
103.00	636	175.00	1215	246.00	1487	421.00	433
104.00	949	176.00	673	247.00	263	423.00	2561
105.00	1317	177.00	650	249.00	96	424.00	584
107.00	10256	179.00	2541	253.00	265	438.00	79
108.00	1351	180.00	1449	255.00	32200	439.00	86
110.00	16624	181.00	796	256.00	4589	441.00	1359
111.00	2645	182.00	162	257.00	504	442.00	39712
112.00	470	184.00	280	258.00	1954	443.00	7887
113.00	77	185.00	1323	259.00	412	444.00	155
116.00	958	186.00	8532	261.00	82		
117.00	9199	187.00	3002	264.00	139		
118.00	719	188.00	336	265.00	970		
120.00	137	189.00	814	266.00	292		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 660-136266/1-A
 Matrix: Solid Lab File ID: 1CD11011.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.29(g) Date Analyzed: 04/11/2013 14:51
 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.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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\1C041113.b\1CD11011.D
 Lab Smp Id: mb 660-136266/1-a
 Inj Date : 11-APR-2013 14:51
 Operator : SCC
 Smp Info : mb 660-136266/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 11 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	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		3.674	3.675	(1.000)	243800	40.0000	
* 6 Acenaphthene-d10	164		4.762	4.763	(1.000)	163859	40.0000	
* 10 Phenanthrene-d10	188		5.709	5.704	(1.000)	301960	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.957	(1.044)	31188	6.92684	453.0309
* 18 Chrysene-d12	240		7.645	7.639	(1.000)	362954	40.0000	
* 23 Perylene-d12	264		8.815	8.798	(1.000)	389222	40.0000	

Data File: 1CD11011.D

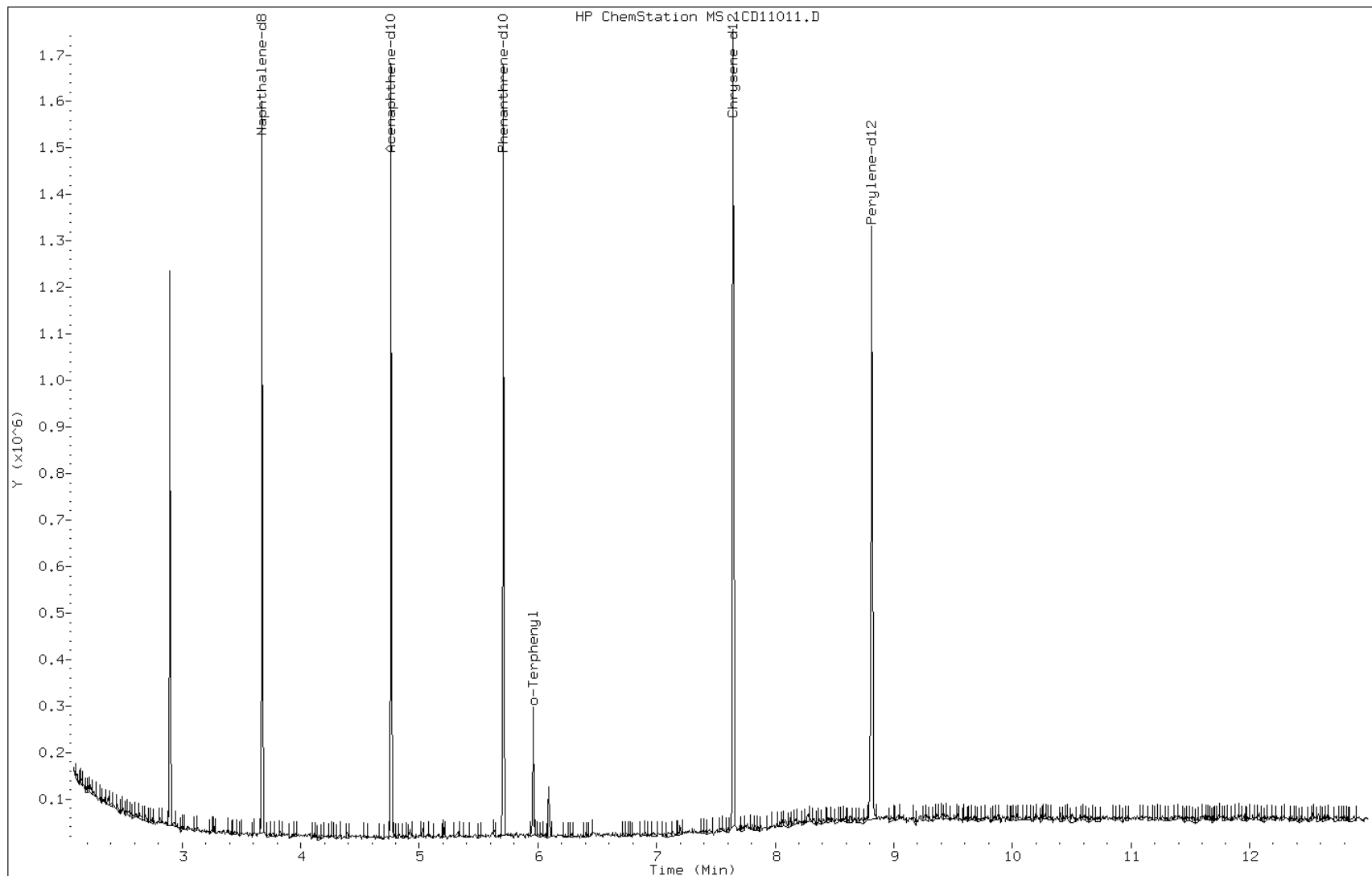
Date: 11-APR-2013 14:51

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136266/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 660-136277/1-A
 Matrix: Solid Lab File ID: 1DD11023.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.46(g) Date Analyzed: 04/11/2013 19:23
 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.: 136371 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.0
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.7	U	8.7	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11023.D
 Lab Smp Id: MB 660-136277/1-A
 Inj Date : 11-APR-2013 19:23
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136277/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 22 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	15.460	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.072	6.078	(1.000)	2894138	40.0000	
* 6 Acenaphthene-d10	164		7.752	7.752	(1.000)	1819394	40.0000	
* 9 Phenanthrene-d10	188		9.015	9.016	(1.000)	3081724	40.0000	
\$ 13 o-Terphenyl	230		9.321	9.327	(1.034)	298681	6.43245	420
* 17 Chrysene-d12	240		11.324	11.331	(1.000)	3147627	40.0000	
* 22 Perylene-d12	264		13.158	13.158	(1.000)	3207923	40.0000	

Data File: 1DD11023.D

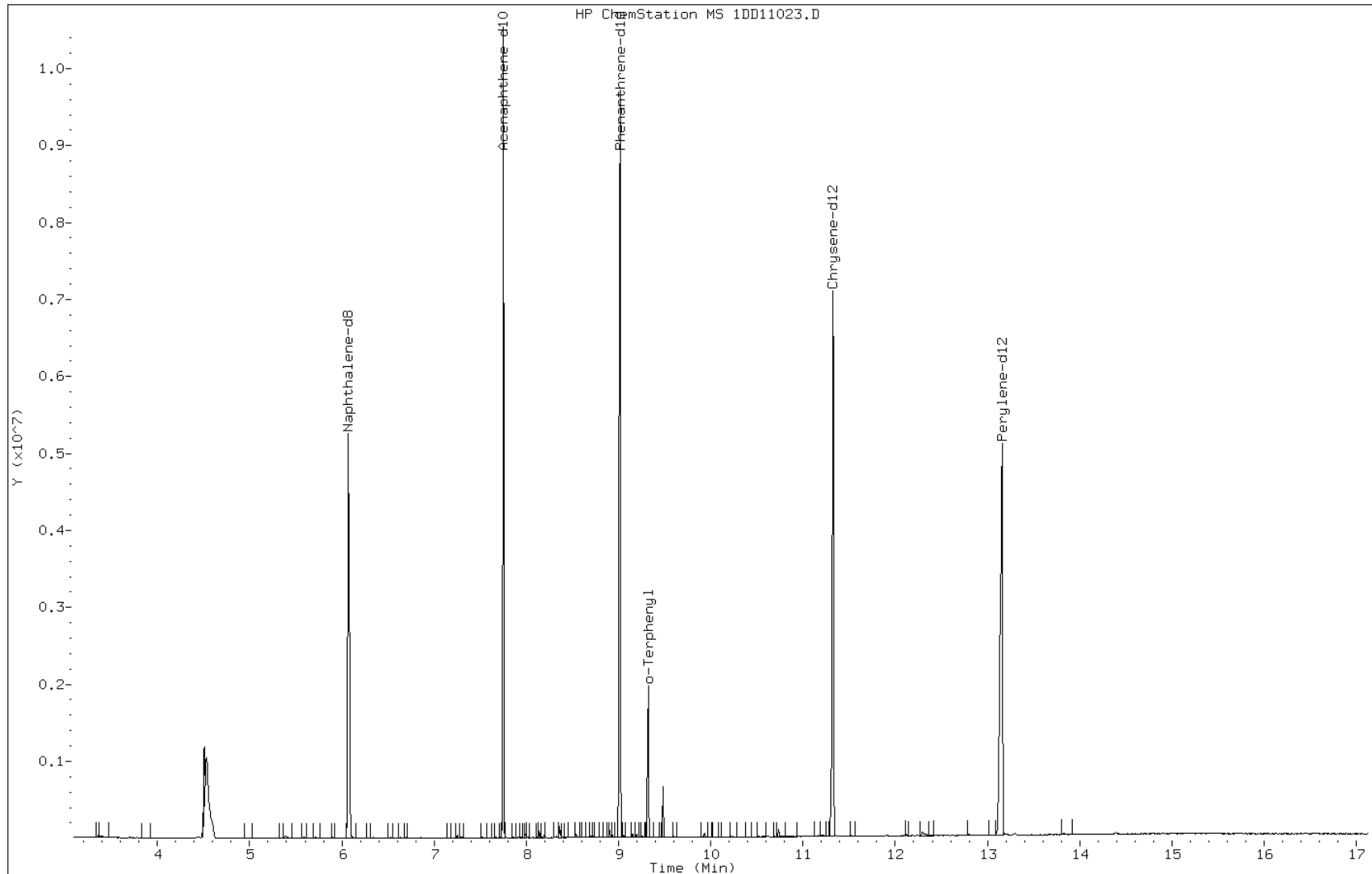
Date: 11-APR-2013 19:23

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136277/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 660-136266/2-A
 Matrix: Solid Lab File ID: 1CD11012.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.40(g) Date Analyzed: 04/11/2013 15:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	362		97	19
208-96-8	Acenaphthylene	425		39	4.9
120-12-7	Anthracene	401		8.2	4.1
56-55-3	Benzo[a]anthracene	375		7.8	3.8
50-32-8	Benzo[a]pyrene	321		10	5.1
205-99-2	Benzo[b]fluoranthene	499		12	5.9
191-24-2	Benzo[g,h,i]perylene	380		19	4.3
207-08-9	Benzo[k]fluoranthene	394		7.8	3.5
218-01-9	Chrysene	359		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	403		19	4.0
206-44-0	Fluoranthene	453		19	3.9
86-73-7	Fluorene	396		19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	356		19	6.9
90-12-0	1-Methylnaphthalene	338		39	4.3
91-57-6	2-Methylnaphthalene	365		39	6.9
91-20-3	Naphthalene	384		39	4.3
85-01-8	Phenanthrene	366		7.8	3.8
129-00-0	Pyrene	398		19	3.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11012.D
 Lab Smp Id: lcs 660-136266/2-a
 Inj Date : 11-APR-2013 15:10
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-136266/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 12 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.400	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.674	3.675	(1.000)	252075	40.0000		
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	174312	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	321724	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	28733	6.08288	394.9919	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	412578	40.0000		
* 23 Perylene-d12	264		8.798	8.798	(1.000)	425428	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	40342	5.92047	384.4464	
3 2-Methylnaphthalene	142		4.110	4.115	(1.118)	24341	5.61399	364.5445	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	22673	5.20918	338.2582	
5 Acenaphthylene	152		4.674	4.675	(0.981)	48381	6.55015	425.3341	
7 Acenaphthene	154		4.780	4.781	(1.004)	24786	5.56830	361.5780	
9 Fluorene	166		5.098	5.104	(1.070)	34587	6.10586	396.4842	
11 Phenanthrene	178		5.721	5.722	(1.003)	53129	5.63375	365.8282	
12 Anthracene	178		5.757	5.757	(1.009)	57652	6.17259	400.8177	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.863	5.863	(1.028)	51063	5.87012	381.1764
15 Fluoranthene	202	6.551	6.557	(1.148)	72819	6.97714	453.0611
16 Pyrene	202	6.721	6.722	(0.880)	71917	6.12716	397.8675
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	67412	5.77806	375.1985
19 Chrysene	228	7.657	7.663	(1.002)	63762	5.52460	358.7401
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	82557	7.68313	498.9047
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	73712	6.06244	393.6647
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	54888	4.94167	320.8876
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	53394	5.47809	355.7198(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.129)	62670	6.19977	402.5822
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	60975	5.85690	380.3179

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11012.D

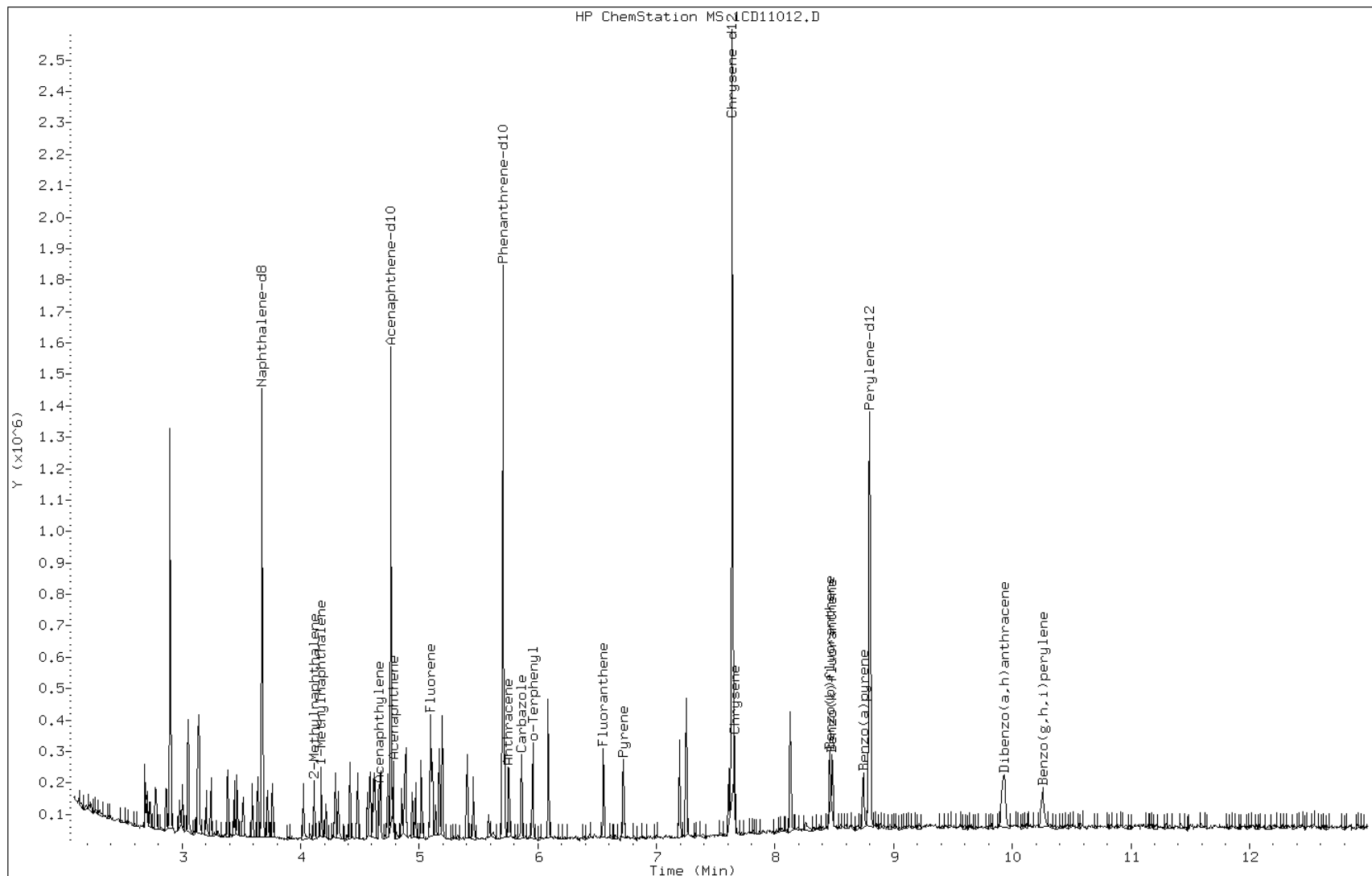
Date: 11-APR-2013 15:10

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136266/2-a

Operator: SCC

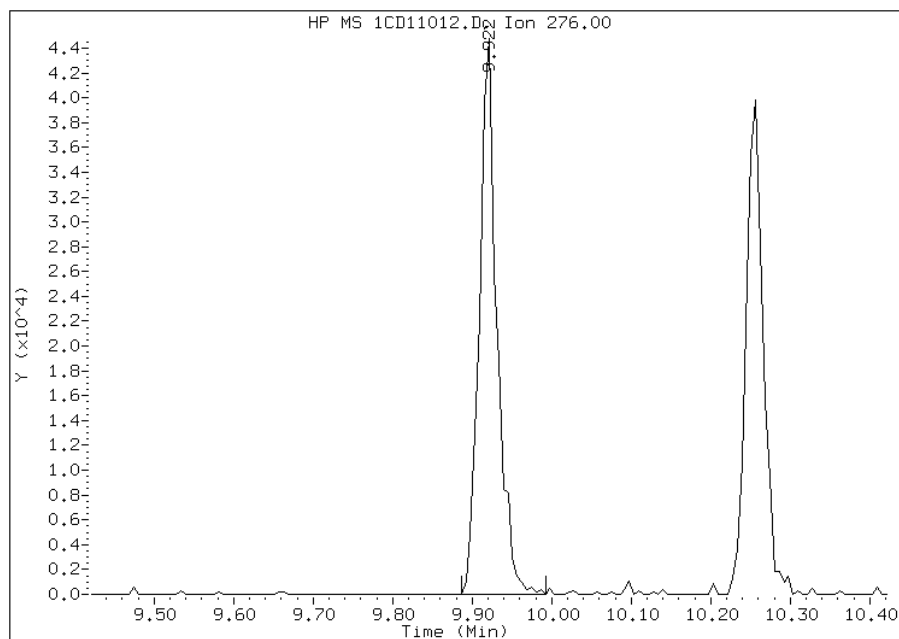


Manual Integration Report

Data File: 1CD11012.D
Inj. Date and Time: 11-APR-2013 15:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

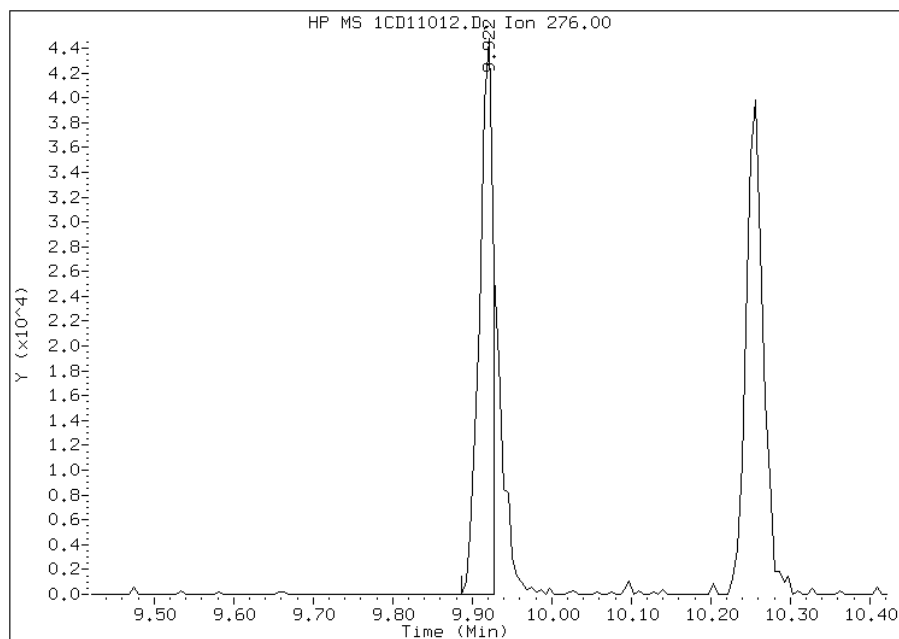
Processing Integration Results

RT: 9.92
Response: 68388
Amount: 7
Conc: 444



Manual Integration Results

RT: 9.92
Response: 53394
Amount: 5
Conc: 356



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 660-136277/2-A
 Matrix: Solid Lab File ID: 1DD11024.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.00(g) Date Analyzed: 04/11/2013 19:46
 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.: 136371 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	524		100	20
208-96-8	Acenaphthylene	545		40	5.0
120-12-7	Anthracene	557		8.4	4.2
56-55-3	Benzo[a]anthracene	588		8.0	3.9
50-32-8	Benzo[a]pyrene	531		10	5.2
205-99-2	Benzo[b]fluoranthene	594		12	6.1
191-24-2	Benzo[g,h,i]perylene	583		20	4.4
207-08-9	Benzo[k]fluoranthene	599		8.0	3.6
218-01-9	Chrysene	571		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	621		20	4.1
206-44-0	Fluoranthene	600		20	4.0
86-73-7	Fluorene	579		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	595		20	7.1
90-12-0	1-Methylnaphthalene	565		40	4.4
91-57-6	2-Methylnaphthalene	556		40	7.1
91-20-3	Naphthalene	533		40	4.4
85-01-8	Phenanthrene	543		8.0	3.9
129-00-0	Pyrene	552		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11024.D
 Lab Smp Id: LCS 660-136277/2-A
 Inj Date : 11-APR-2013 19:46
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : LCS 660-136277/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\dFASTPAHi.m
 Meth Date : 11-Apr-2013 11:40 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 23 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	15.000	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	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.074	6.078	(1.000)	2793385	40.0000	
* 6 Acenaphthene-d10	164	7.755	7.752	(1.000)	1736069	40.0000	
* 9 Phenanthrene-d10	188	9.012	9.016	(1.000)	2929348	40.0000	
\$ 13 o-Terphenyl	230	9.318	9.327	(1.034)	385210	8.72749	580
* 17 Chrysene-d12	240	11.327	11.331	(1.000)	3052042	40.0000	
* 22 Perylene-d12	264	13.154	13.158	(1.000)	3048812	40.0000	
2 Naphthalene	128	6.092	6.096	(1.003)	554673	7.98884	530
3 2-Methylnaphthalene	142	6.797	6.801	(1.119)	373489	8.33311	560
4 1-Methylnaphthalene	142	6.891	6.895	(1.134)	358798	8.47710	560
5 Acenaphthylene	152	7.626	7.623	(0.983)	601186	8.18186	540
7 Acenaphthene	154	7.778	7.782	(1.003)	356826	7.86731	520
8 Fluorene	166	8.219	8.222	(1.060)	466112	8.67830	580
10 Phenanthrene	178	9.030	9.033	(1.002)	657536	8.14912	540
11 Anthracene	178	9.071	9.074	(1.007)	669362	8.35813	560

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)
-----	----	-----	-----	-----	-----	-----	-----
12 Carbazole	167	9.206	9.215	(1.022)	585992	8.29546	550(M)
14 Fluoranthene	202	10.011	10.014	(1.111)	746688	8.99280	600
15 Pyrene	202	10.199	10.208	(0.900)	758582	8.27671	550
16 Benzo(a)anthracene	228	11.309	11.313	(0.998)	777915	8.81584	590
18 Chrysene	228	11.351	11.354	(1.002)	709172	8.57126	570
19 Benzo(b)fluoranthene	252	12.602	12.611	(0.958)	678256	8.90567	590
20 Benzo(k)fluoranthene	252	12.643	12.653	(0.961)	720837	8.98408	600
21 Benzo(a)pyrene	252	13.054	13.064	(0.992)	609130	7.96008	530
23 Indeno(1,2,3-cd)pyrene	276	14.729	14.744	(1.120)	728114	8.92337	590(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.779	(1.122)	715553	9.31249	620
25 Benzo(g,h,i)perylene	276	15.164	15.191	(1.153)	687548	8.75123	580

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD11024.D

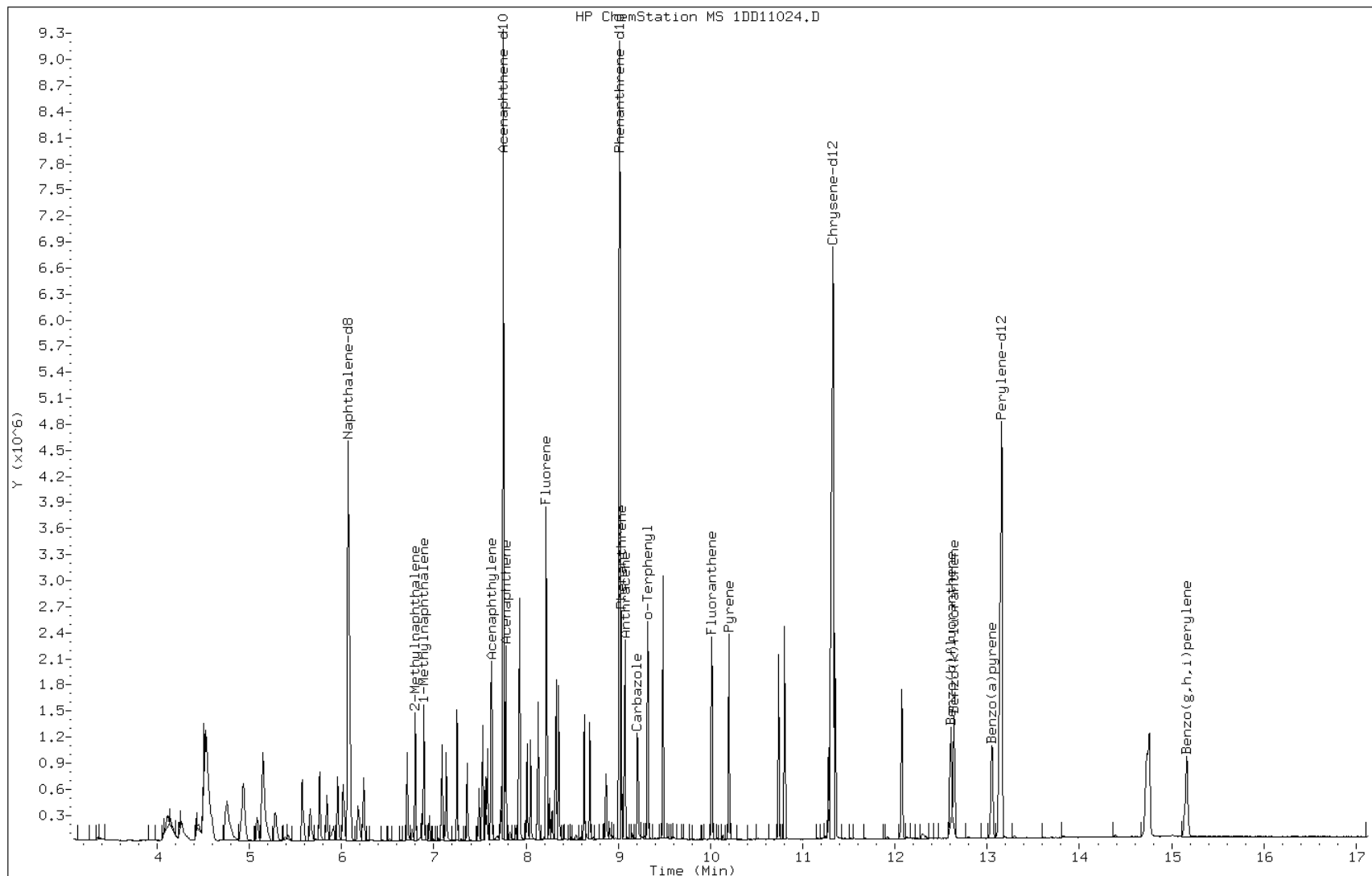
Date: 11-APR-2013 19:46

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136277/2-A

Operator: SCC

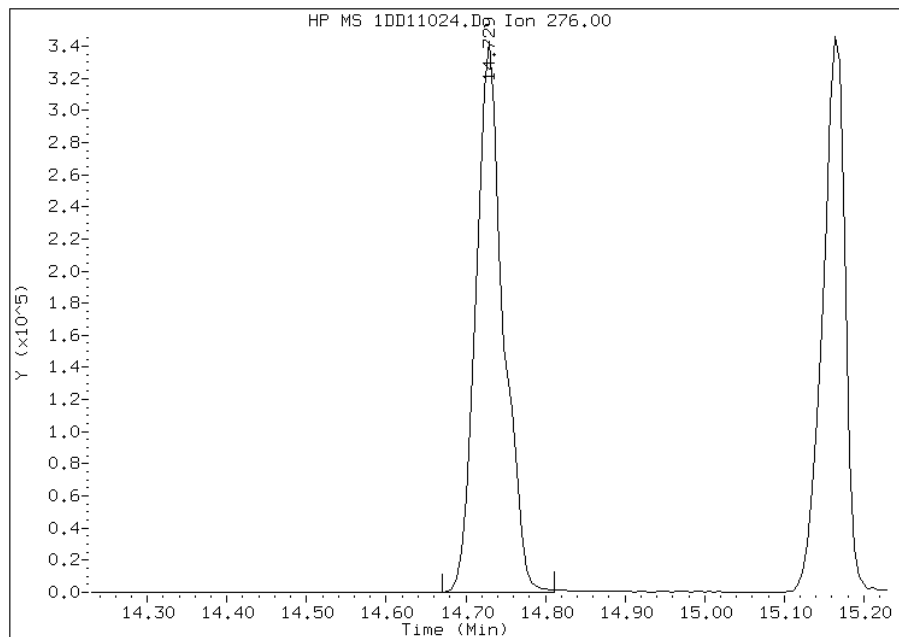


Manual Integration Report

Data File: 1DD11024.D
Inj. Date and Time: 11-APR-2013 19:46
Instrument ID: BSMMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

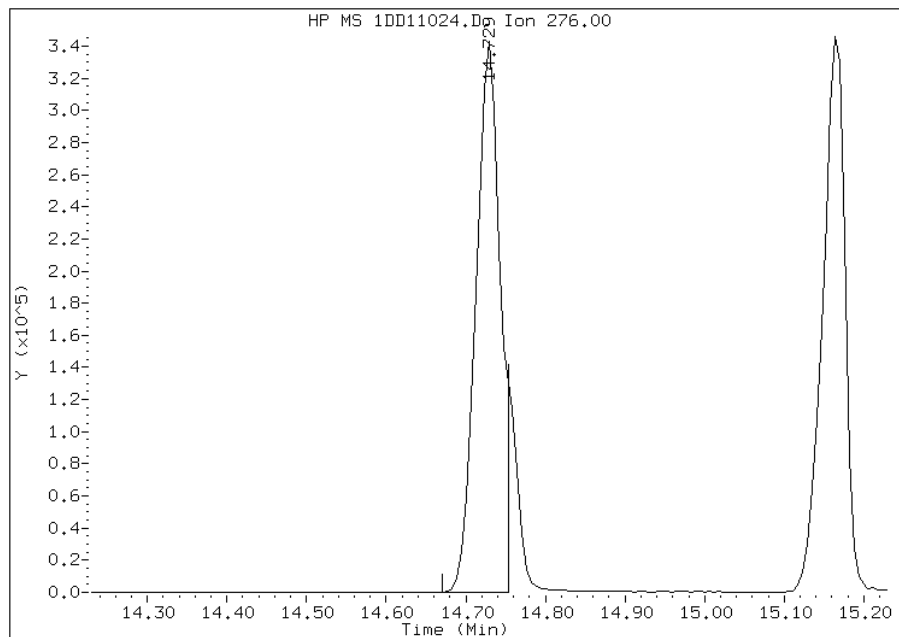
Processing Integration Results

RT: 14.73
Response: 818824
Amount: 10
Conc: 669



Manual Integration Results

RT: 14.73
Response: 728114
Amount: 9
Conc: 595



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 11:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 680-88980-A-21-B MS
 Matrix: Solid Lab File ID: 1CD11014.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.32 (g) Date Analyzed: 04/11/2013 15:46
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 28.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	316		140	27
208-96-8	Acenaphthylene	370		54	6.8
120-12-7	Anthracene	372		11	5.7
56-55-3	Benzo[a]anthracene	366		11	5.3
50-32-8	Benzo[a]pyrene	308		14	7.1
205-99-2	Benzo[b]fluoranthene	390		17	8.3
191-24-2	Benzo[g,h,i]perylene	335		27	6.0
207-08-9	Benzo[k]fluoranthene	338		11	4.9
218-01-9	Chrysene	365		12	6.1
53-70-3	Dibenz(a,h)anthracene	372		27	5.6
206-44-0	Fluoranthene	400		27	5.4
86-73-7	Fluorene	338		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	362		27	9.7
90-12-0	1-Methylnaphthalene	328		54	6.0
91-57-6	2-Methylnaphthalene	377		54	9.7
91-20-3	Naphthalene	320		54	6.0
85-01-8	Phenanthrene	362		11	5.3
129-00-0	Pyrene	385		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11014.D
 Lab Smp Id: 680-88980-a-21-b ms
 Inj Date : 11-APR-2013 15:46
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88980-a-21-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 14 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.674	3.675	(1.000)	296640	40.0000		
* 6 Acenaphthene-d10	164		4.762	4.763	(1.000)	207963	40.0000		
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	389509	40.0000		
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	21833	4.07456	265.9635	
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	440062	40.0000		
* 23 Perylene-d12	264		8.798	8.798	(1.000)	439786	40.0000		
2 Naphthalene	128		3.686	3.687	(1.003)	28264	3.52479	230.0774(R)	
3 2-Methylnaphthalene	142		4.115	4.115	(1.120)	20834	4.15761	271.3842	
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	18495	3.61089	235.6979	
5 Acenaphthylene	152		4.674	4.675	(0.981)	35877	4.07130	265.7508	
7 Acenaphthene	154		4.780	4.781	(1.004)	18481	3.48003	227.1560(R)	
9 Fluorene	166		5.098	5.104	(1.070)	25153	3.72190	242.9438(R)	
11 Phenanthrene	178		5.721	5.722	(1.003)	45579	3.99215	260.5840(R)	
12 Anthracene	178		5.757	5.757	(1.009)	46381	4.10166	267.7321	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.862	5.863	(1.028)	38313	3.63791	237.4618(R)
15 Fluoranthene	202	6.551	6.557	(1.148)	55735	4.41090	287.9174
16 Pyrene	202	6.721	6.722	(0.880)	53051	4.23754	276.6015(R)
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	50205	4.03445	263.3449
19 Chrysene	228	7.656	7.663	(1.002)	49557	4.02565	262.7708(R)
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	47697	4.29398	280.2860
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	46816	3.72467	243.1248
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	38960	3.39313	221.4833(R)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.933	(1.128)	38195	3.98772	260.2949(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.945	(1.129)	41172	4.10299	267.8190
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	39752	3.69368	241.1018

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CD11014.D

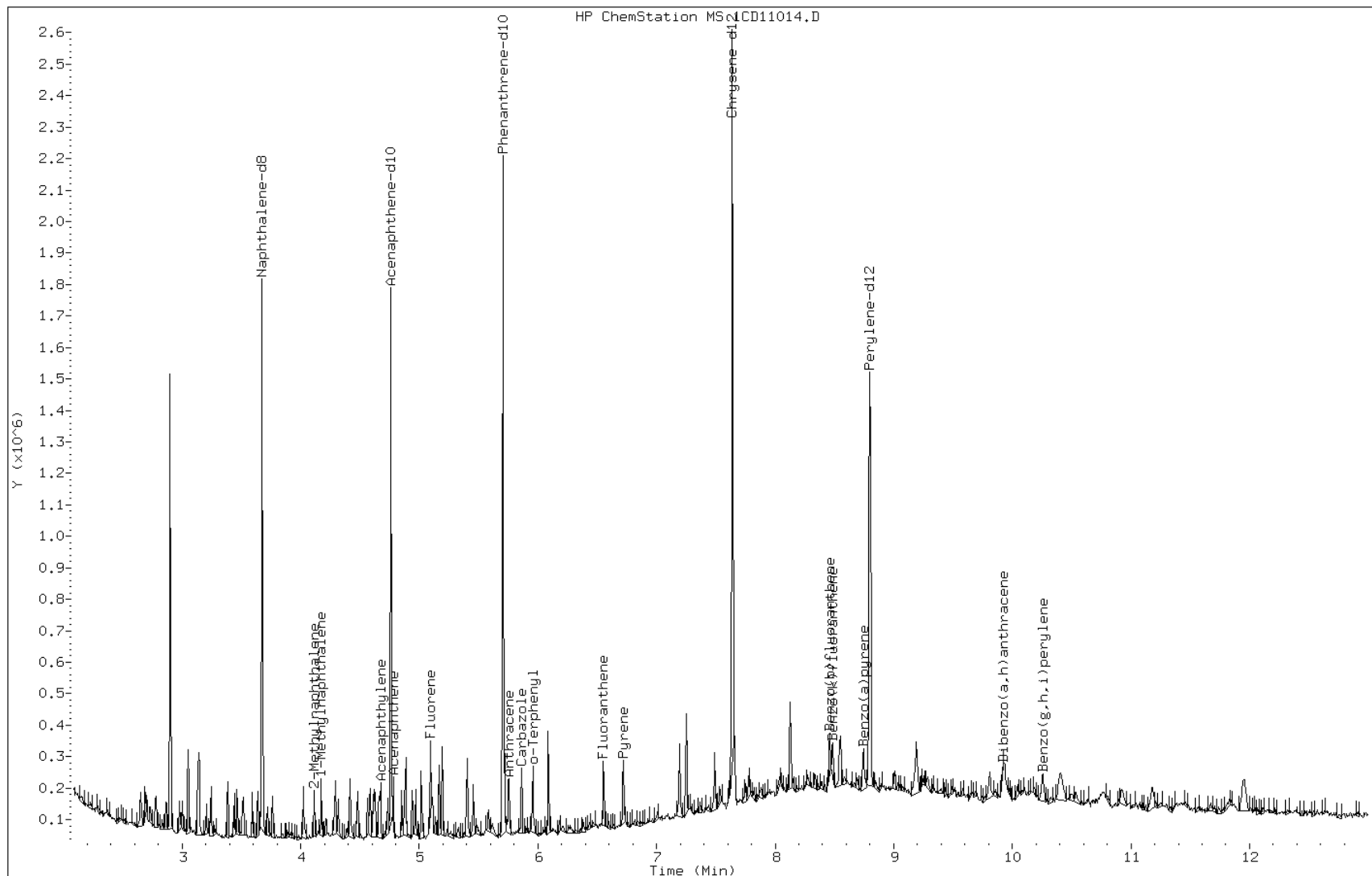
Date: 11-APR-2013 15:46

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-b ms

Operator: SCC

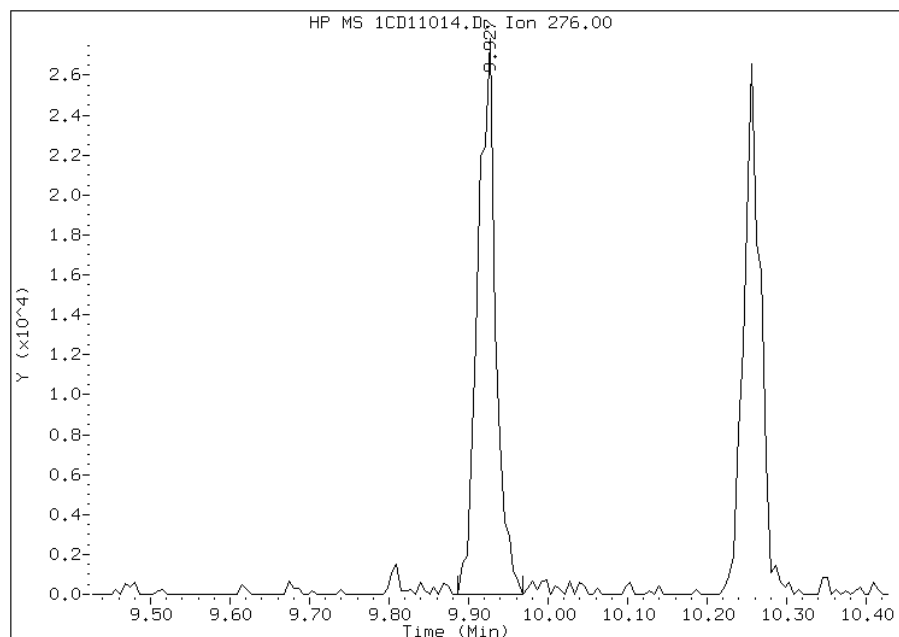


Manual Integration Report

Data File: 1CD11014.D
Inj. Date and Time: 11-APR-2013 15:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

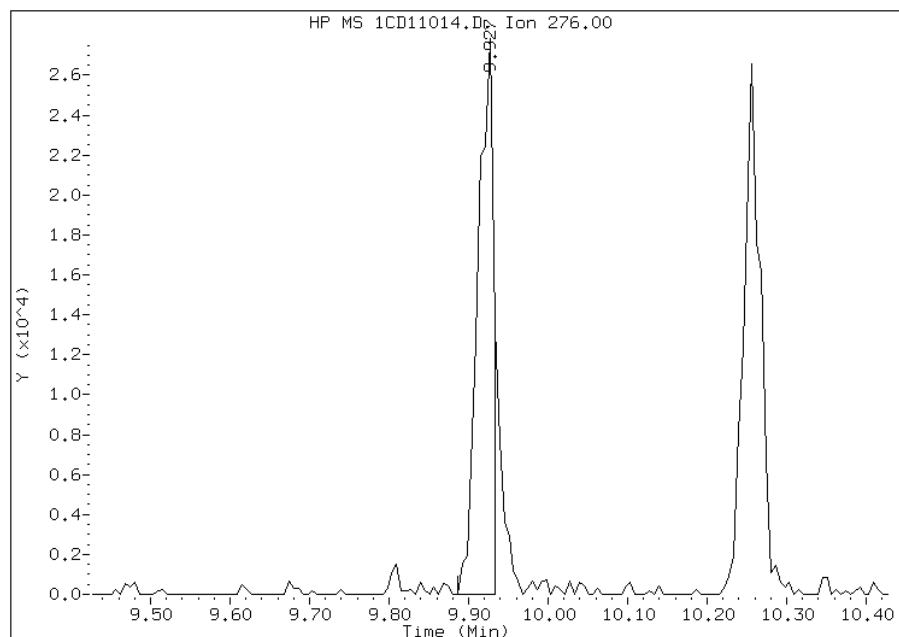
Processing Integration Results

RT: 9.93
Response: 43918
Amount: 4
Conc: 293



Manual Integration Results

RT: 9.93
Response: 38195
Amount: 4
Conc: 260



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV1311B-CS-SP MS Lab Sample ID: 680-89038-6 MS
 Matrix: Solid Lab File ID: 1CD12006.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:35
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.34 (g) Date Analyzed: 04/12/2013 12:38
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 40.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	702		160	33
208-96-8	Acenaphthylene	720		65	8.2
120-12-7	Anthracene	785		14	6.9
56-55-3	Benzo[a]anthracene	817		13	6.4
50-32-8	Benzo[a]pyrene	696		17	8.5
205-99-2	Benzo[b]fluoranthene	949		20	10
191-24-2	Benzo[g,h,i]perylene	658		33	7.2
207-08-9	Benzo[k]fluoranthene	726		13	5.9
218-01-9	Chrysene	818		15	7.3
53-70-3	Dibenz(a,h)anthracene	722		33	6.7
206-44-0	Fluoranthene	912		33	6.5
86-73-7	Fluorene	755		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	681		33	12
90-12-0	1-Methylnaphthalene	832		65	7.2
91-57-6	2-Methylnaphthalene	822		65	12
91-20-3	Naphthalene	729		65	7.2
85-01-8	Phenanthrene	849		13	6.4
129-00-0	Pyrene	808		33	6.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\1CD12006.D
 Lab Smp Id: 680-89038-a-6-b ms
 Inj Date : 12-APR-2013 12:38
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89038-a-6-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 6 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.340	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			3.669	3.669	(1.000)	266003	40.0000	
* 6 Acenaphthene-d10	164			4.757	4.757	(1.000)	187662	40.0000	
* 10 Phenanthrene-d10	188			5.698	5.704	(1.000)	361468	40.0000	
\$ 14 o-Terphenyl	230			5.951	5.951	(1.044)	33429	6.27441	409.0229
* 18 Chrysene-d12	240			7.633	7.639	(1.000)	477417	40.0000	
* 23 Perylene-d12	264			8.792	8.792	(1.000)	467979	40.0000	
2 Naphthalene	128			3.680	3.680	(1.003)	48184	6.70109	436.8374
3 2-Methylnaphthalene	142			4.110	4.110	(1.120)	35034	7.55788	492.6907
4 1-Methylnaphthalene	142			4.169	4.169	(1.136)	35118	7.64598	498.4342
5 Acenaphthylene	152			4.669	4.669	(0.981)	52604	6.61524	431.2414
7 Acenaphthene	154			4.774	4.774	(1.004)	30921	6.45239	420.6253
9 Fluorene	166			5.092	5.098	(1.070)	42333	6.94167	452.5206
11 Phenanthrene	178			5.716	5.716	(1.003)	82671	7.80527	508.8181
12 Anthracene	178			5.751	5.751	(1.009)	75708	7.21454	470.3089

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.857	5.857	(1.028)	69518	7.11298	463.6880
15 Fluoranthene	202	6.545	6.551	(1.149)	98320	8.38472	546.5916
16 Pyrene	202	6.715	6.716	(0.880)	100867	7.42651	484.1273
17 Benzo(a)anthracene	228	7.627	7.627	(0.999)	101324	7.50525	489.2601
19 Chrysene	228	7.651	7.657	(1.002)	100382	7.51628	489.9790
20 Benzo(b)fluoranthene	252	8.457	8.457	(0.962)	103114	8.72372	568.6911
21 Benzo(k)fluoranthene	252	8.474	8.480	(0.964)	89305	6.67705	435.2704
22 Benzo(a)pyrene	252	8.739	8.739	(0.994)	78133	6.39485	416.8743
24 Indeno(1,2,3-cd)pyrene	276	9.915	9.921	(1.128)	68221	6.25961	408.0580(M)
25 Dibenzo(a,h)anthracene	278	9.921	9.933	(1.128)	74171	6.63643	432.6227
26 Benzo(g,h,i)perylene	276	10.245	10.256	(1.165)	69278	6.04938	394.3532

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD12006.D

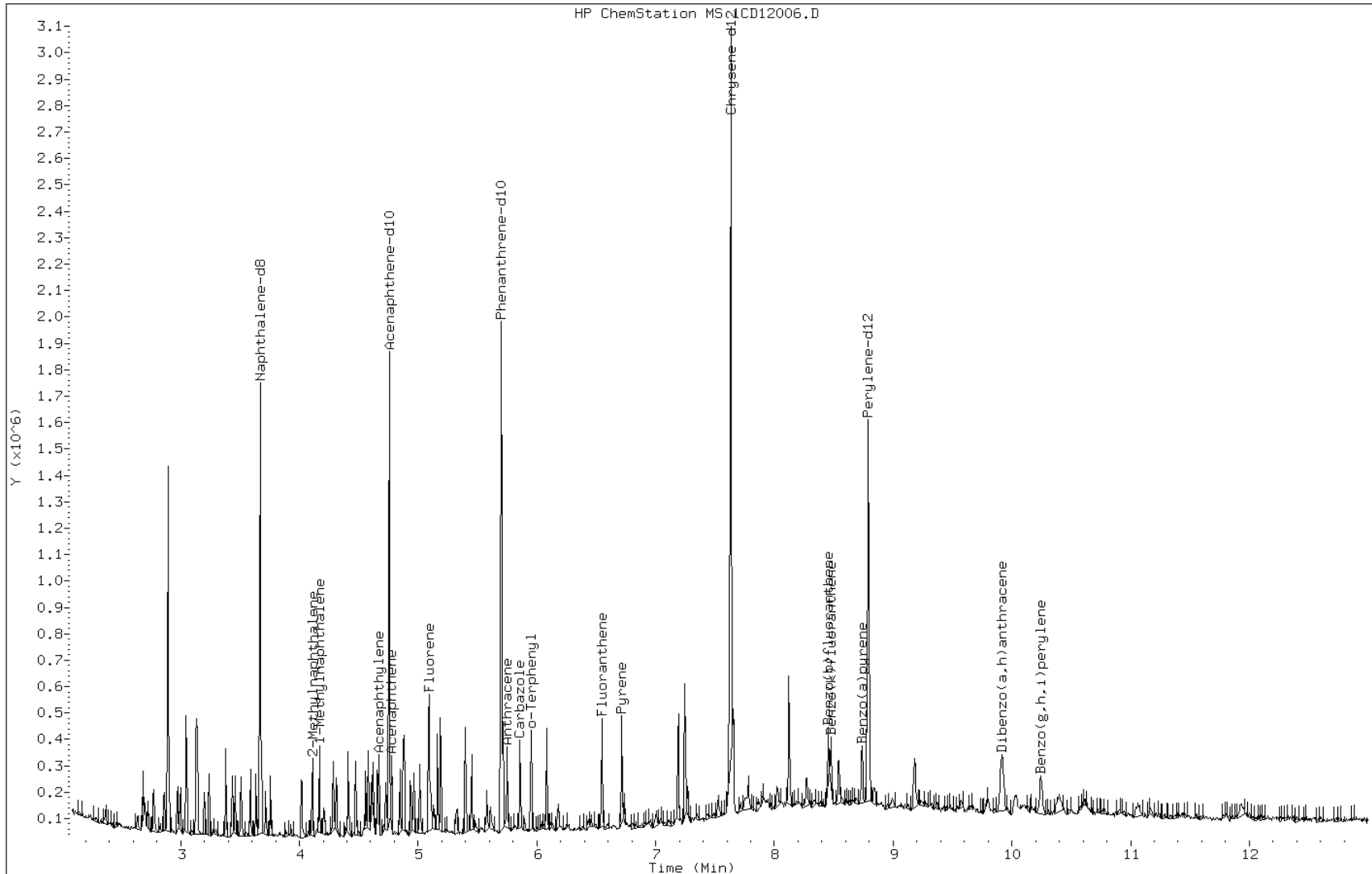
Date: 12-APR-2013 12:38

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89038-a-6-b ms

Operator: SCC

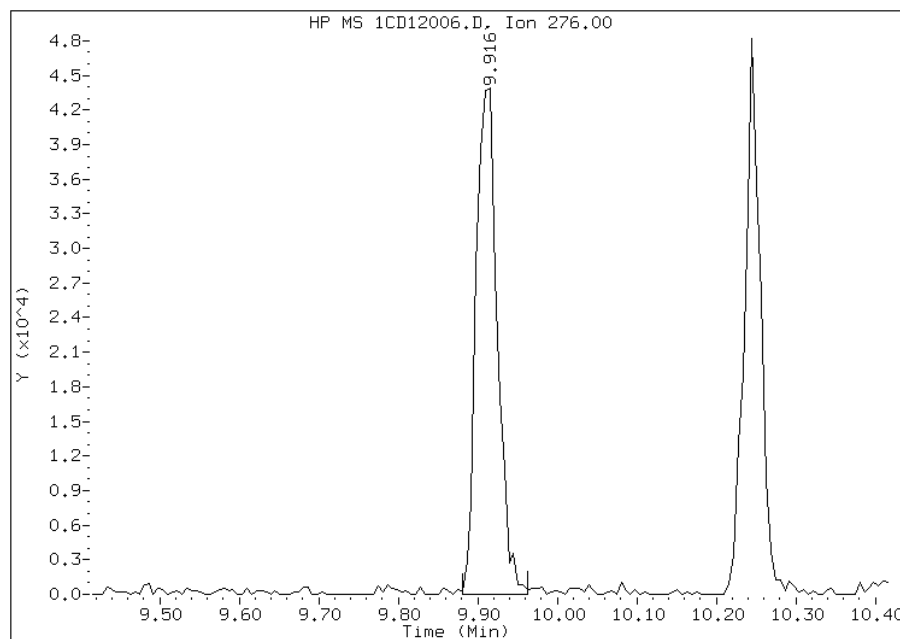


Manual Integration Report

Data File: 1CD12006.D
Inj. Date and Time: 12-APR-2013 12:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

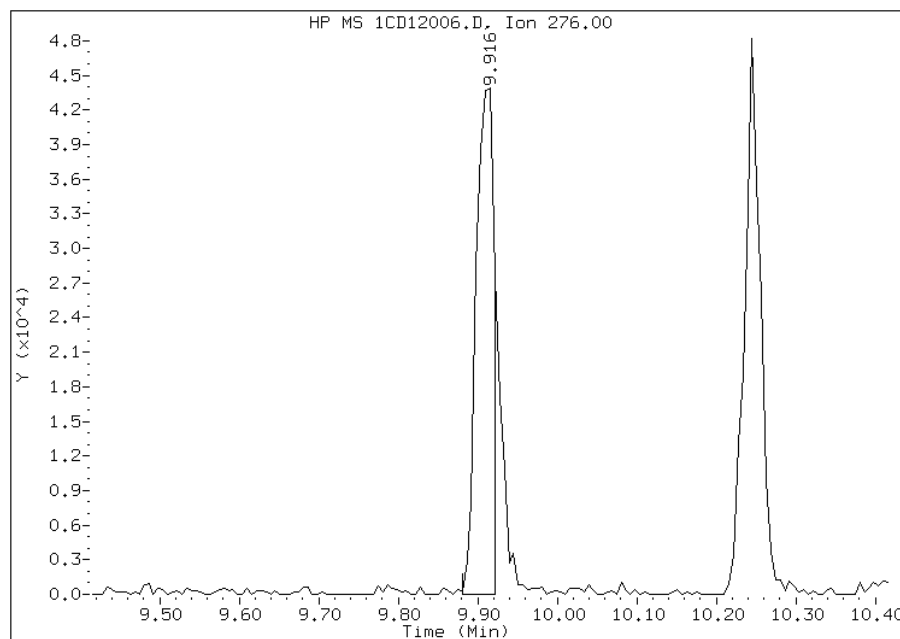
Processing Integration Results

RT: 9.92
Response: 81091
Amount: 7
Conc: 477



Manual Integration Results

RT: 9.92
Response: 68221
Amount: 6
Conc: 408



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 14:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: 680-88980-A-21-C MSD
 Matrix: Solid Lab File ID: 1CD11015.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/09/2013 13:55
 Sample wt/vol: 15.32 (g) Date Analyzed: 04/11/2013 16:05
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 28.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136370 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	545		140	27
208-96-8	Acenaphthylene	581		54	6.8
120-12-7	Anthracene	568		11	5.7
56-55-3	Benzo[a]anthracene	531		11	5.3
50-32-8	Benzo[a]pyrene	523		14	7.1
205-99-2	Benzo[b]fluoranthene	610		17	8.3
191-24-2	Benzo[g,h,i]perylene	515		27	6.0
207-08-9	Benzo[k]fluoranthene	518		11	4.9
218-01-9	Chrysene	568		12	6.1
53-70-3	Dibenz(a,h)anthracene	544		27	5.6
206-44-0	Fluoranthene	582		27	5.4
86-73-7	Fluorene	596		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	537		27	9.7
90-12-0	1-Methylnaphthalene	555		54	6.0
91-57-6	2-Methylnaphthalene	564		54	9.7
91-20-3	Naphthalene	556		54	6.0
85-01-8	Phenanthrene	578		11	5.3
129-00-0	Pyrene	612		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11015.D
 Lab Smp Id: 680-88980-a-21-c ms
 Inj Date : 11-APR-2013 16:05
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88980-a-21-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 15 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.674	3.675	(1.000)	302058	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)	211723	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)	391230	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)	33700	5.89139	384.5557
* 18 Chrysene-d12	240		7.639	7.639	(1.000)	454290	40.0000	
* 23 Perylene-d12	264		8.798	8.798	(1.000)	432351	40.0000	
2 Naphthalene	128		3.686	3.687	(1.003)	50003	6.12399	399.7383
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)	32442	6.21363	405.5893
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)	31914	6.11901	399.4129
5 Acenaphthylene	152		4.674	4.675	(0.981)	57466	6.40540	418.1071
7 Acenaphthene	154		4.780	4.781	(1.004)	32441	6.00026	391.6616
9 Fluorene	166		5.098	5.104	(1.070)	45179	6.56643	428.6184
11 Phenanthrene	178		5.721	5.722	(1.003)	73028	6.36863	415.7069
12 Anthracene	178		5.757	5.757	(1.009)	71027	6.25357	408.1964

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.862	5.863	(1.028)	59685	5.64231	368.2969
15 Fluoranthene	202	6.551	6.557	(1.148)	81437	6.41661	418.8390
16 Pyrene	202	6.721	6.722	(0.880)	87168	6.74462	440.2494
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	75191	5.85307	382.0539
19 Chrysene	228	7.662	7.663	(1.003)	79495	6.25535	408.3125
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	73386	6.72028	438.6604
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	70454	5.70170	372.1735
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	65007	5.75899	375.9129
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	59148	5.91370	386.0115(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	61348	5.98824	390.8774(M)
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	60035	5.67427	370.3830

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11015.D

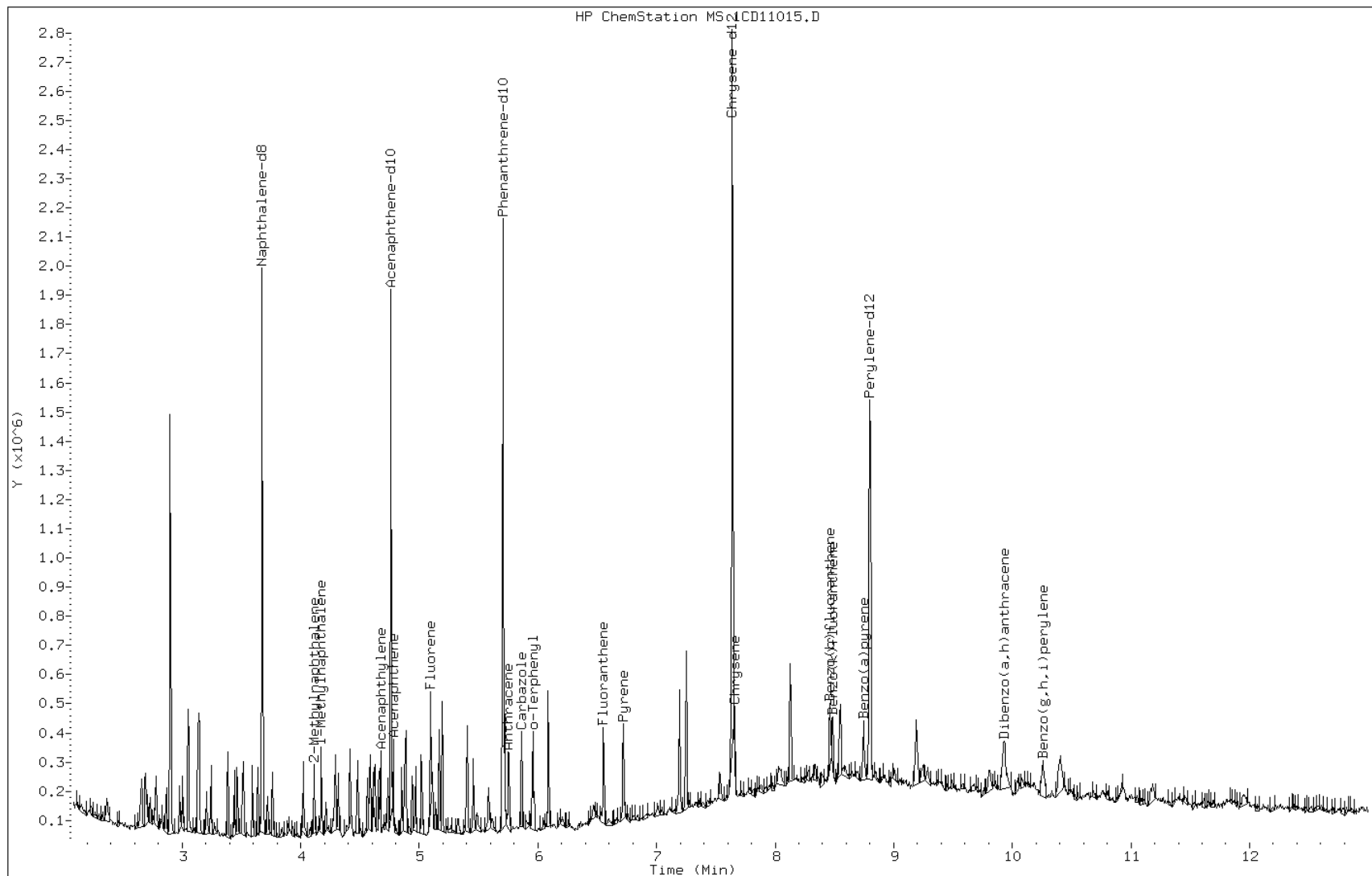
Date: 11-APR-2013 16:05

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88980-a-21-c msd

Operator: SCC

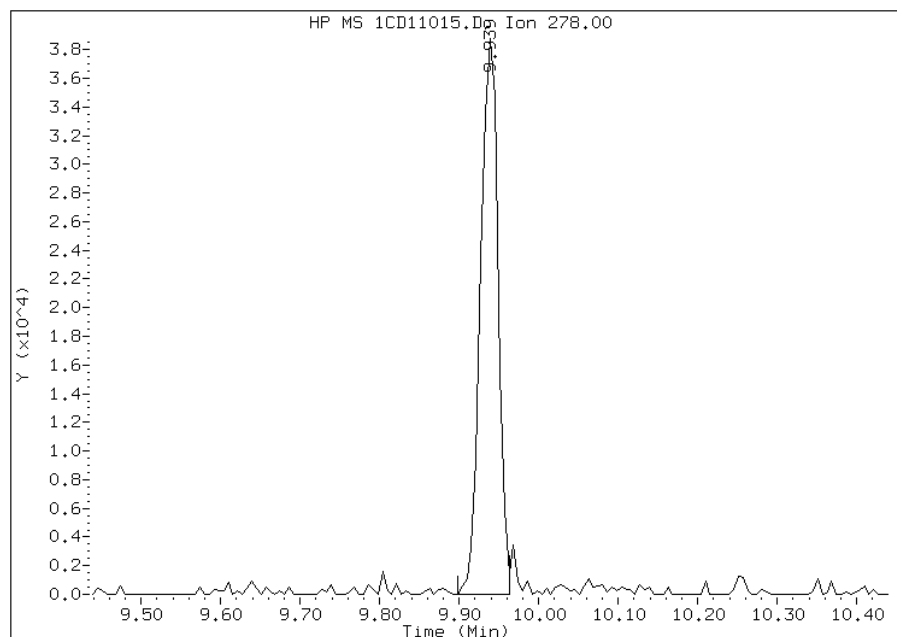


Manual Integration Report

Data File: 1CD11015.D
Inj. Date and Time: 11-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/12/2013

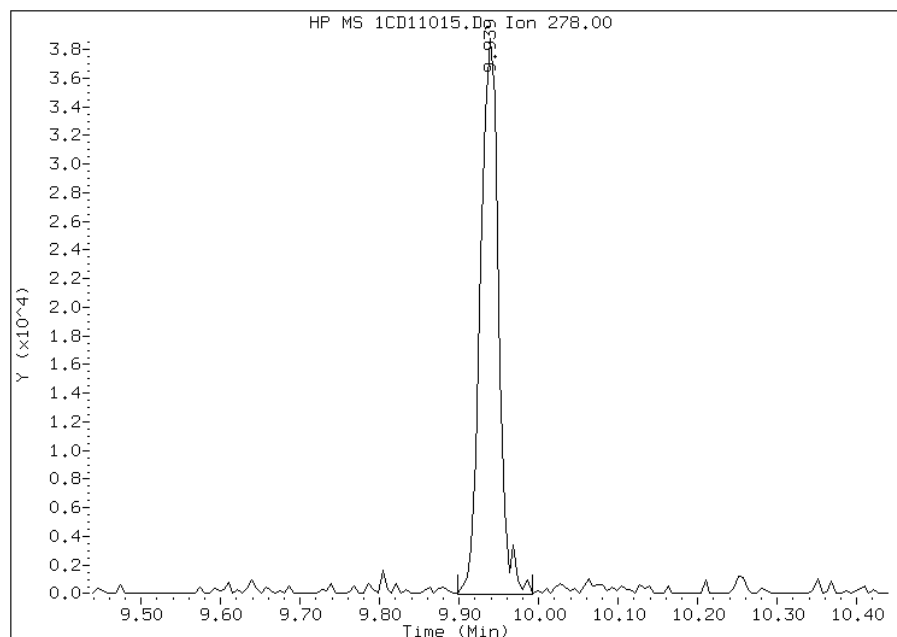
Processing Integration Results

RT: 9.94
Response: 59106
Amount: 6
Conc: 378



Manual Integration Results

RT: 9.94
Response: 61348
Amount: 6
Conc: 391



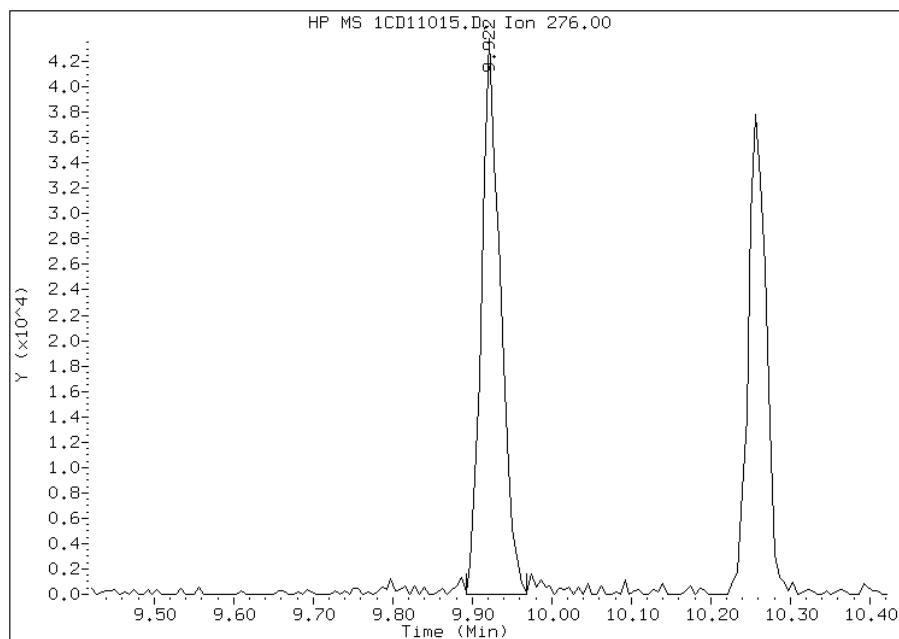
Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD11015.D
Inj. Date and Time: 11-APR-2013 16:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

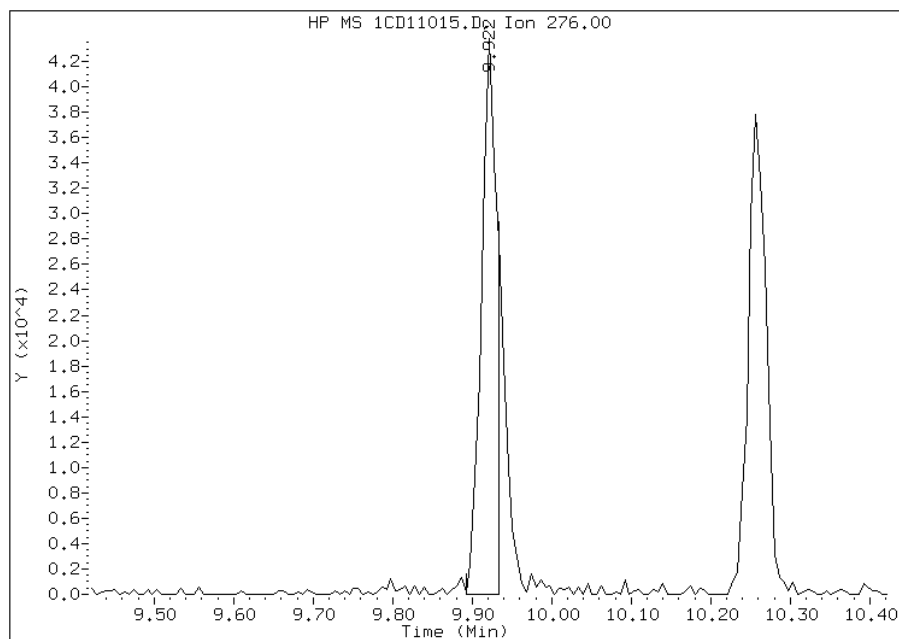
Processing Integration Results

RT: 9.92
Response: 72370
Amount: 7
Conc: 463



Manual Integration Results

RT: 9.92
Response: 59148
Amount: 6
Conc: 386



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 09:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1
 SDG No.: _____
 Client Sample ID: CV1311B-CS-SP MSD Lab Sample ID: 680-89038-6 MSD
 Matrix: Solid Lab File ID: 1CD12007.D
 Analysis Method: 8270C LL Date Collected: 04/03/2013 10:35
 Extract. Method: 3546 Date Extracted: 04/09/2013 16:11
 Sample wt/vol: 15.30 (g) Date Analyzed: 04/12/2013 12:57
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 40.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136414 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	589		160	33
208-96-8	Acenaphthylene	659		65	8.2
120-12-7	Anthracene	728		14	6.9
56-55-3	Benzo[a]anthracene	846		13	6.4
50-32-8	Benzo[a]pyrene	693		17	8.5
205-99-2	Benzo[b]fluoranthene	848		20	10
191-24-2	Benzo[g,h,i]perylene	709		33	7.2
207-08-9	Benzo[k]fluoranthene	754		13	5.9
218-01-9	Chrysene	763		15	7.4
53-70-3	Dibenz(a,h)anthracene	706		33	6.7
206-44-0	Fluoranthene	866		33	6.5
86-73-7	Fluorene	710		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	666		33	12
90-12-0	1-Methylnaphthalene	651		65	7.2
91-57-6	2-Methylnaphthalene	781		65	12
91-20-3	Naphthalene	661		65	7.2
85-01-8	Phenanthrene	827		13	6.4
129-00-0	Pyrene	801		33	6.1

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\1C041213.b\1CD12007.D
 Lab Smp Id: 680-89038-a-6-c msd
 Inj Date : 12-APR-2013 12:57
 Operator : SCC
 Smp Info : 680-89038-a-6-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041213.b\a-bFASTPAHi-m.m
 Meth Date : 12-Apr-2013 11:57 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 7 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	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		3.669	3.669	(1.000)	285112	40.0000	
* 6 Acenaphthene-d10	164		4.757	4.757	(1.000)	207753	40.0000	
* 10 Phenanthrene-d10	188		5.698	5.704	(1.000)	373597	40.0000	
\$ 14 o-Terphenyl	230		5.951	5.951	(1.044)	32717	5.97801	390.7198
* 18 Chrysene-d12	240		7.633	7.639	(1.000)	448240	40.0000	
* 23 Perylene-d12	264		8.792	8.792	(1.000)	441892	40.0000	
2 Naphthalene	128		3.680	3.680	(1.003)	46687	6.05772	395.9295
3 2-Methylnaphthalene	142		4.110	4.110	(1.120)	35510	7.16195	468.1014
4 1-Methylnaphthalene	142		4.169	4.169	(1.136)	29395	5.97101	390.2622
5 Acenaphthylene	152		4.669	4.669	(0.981)	53168	6.03958	394.7435
7 Acenaphthene	154		4.774	4.774	(1.004)	28642	5.39883	352.8647
9 Fluorene	166		5.098	5.098	(1.072)	43932	6.50721	425.3077
11 Phenanthrene	178		5.716	5.716	(1.003)	82984	7.58010	495.4313
12 Anthracene	178		5.751	5.751	(1.009)	72410	6.67624	436.3554

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.857	5.857	(1.028)	69027	6.83344	446.6301
15 Fluoranthene	202	6.551	6.551	(1.150)	96246	7.94137	519.0440
16 Pyrene	202	6.716	6.716	(0.880)	93671	7.34562	480.1056
17 Benzo(a)anthracene	228	7.627	7.627	(0.999)	98309	7.75592	506.9229
19 Chrysene	228	7.657	7.657	(1.003)	87684	6.99286	457.0494
20 Benzo(b)fluoranthene	252	8.457	8.457	(0.962)	86738	7.77148	507.9399
21 Benzo(k)fluoranthene	252	8.480	8.480	(0.965)	87252	6.90867	451.5469
22 Benzo(a)pyrene	252	8.739	8.739	(0.994)	73258	6.34982	415.0207
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.921	(1.127)	62632	6.10378	398.9399(M)
25 Dibenzo(a,h)anthracene	278	9.927	9.933	(1.129)	68198	6.47396	423.1349
26 Benzo(g,h,i)perylene	276	10.245	10.256	(1.165)	70303	6.50129	424.9208

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD12007.D

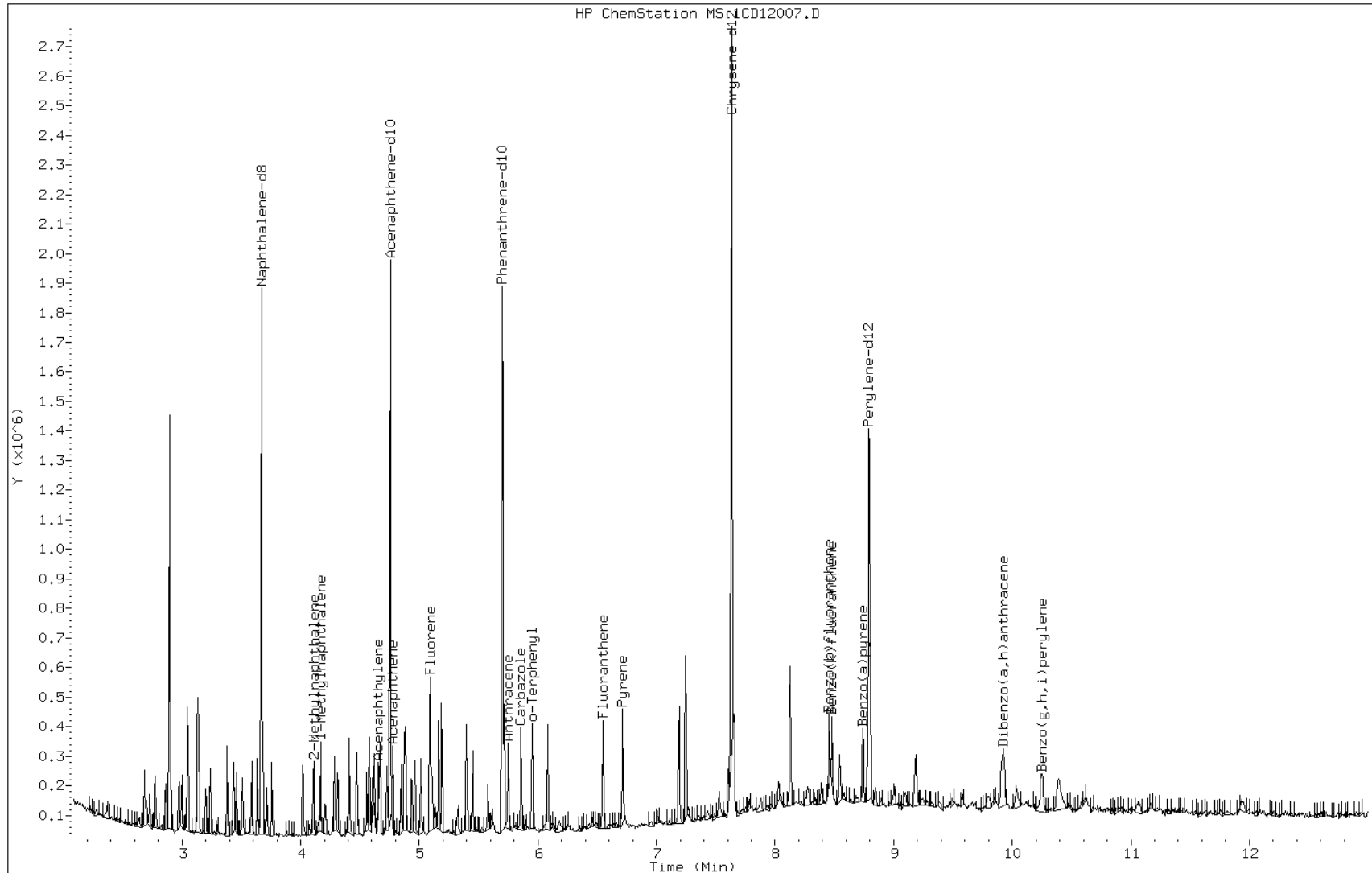
Date: 12-APR-2013 12:57

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89038-a-6-c msd

Operator: SCC

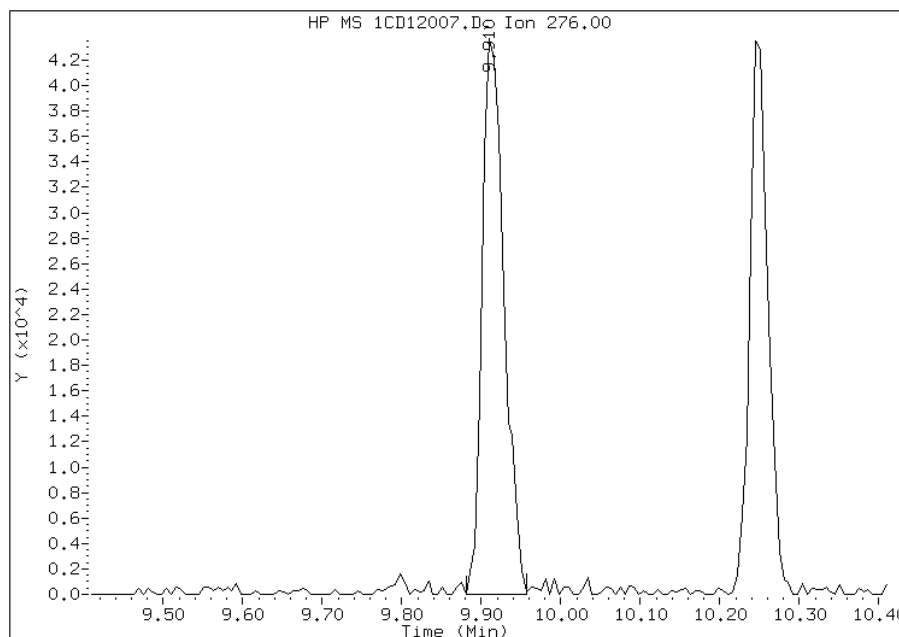


Manual Integration Report

Data File: 1CD12007.D
Inj. Date and Time: 12-APR-2013 12:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/12/2013

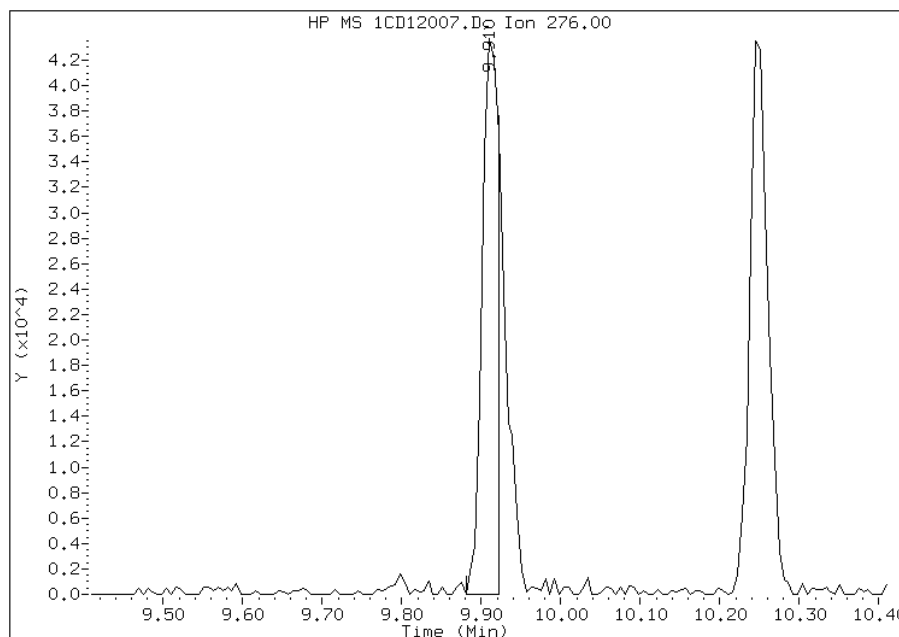
Processing Integration Results

RT: 9.91
Response: 83262
Amount: 8
Conc: 517



Manual Integration Results

RT: 9.91
Response: 62632
Amount: 6
Conc: 399



Manually Integrated By: cantins
Modification Date: 12-Apr-2013 14:27
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973Start Date: 04/11/2013 11:01Analysis Batch Number: 136370End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250 (um)
DFTPP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250 (um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250 (um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250 (um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250 (um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250 (um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250 (um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250 (um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250 (um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250 (um)
MB 660-136266/1-A		04/11/2013 14:51	1	1CD11011.D	DB-5MS 250 (um)
LCS 660-136266/2-A		04/11/2013 15:10	1	1CD11012.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250 (um)
680-88980-A-21-B MS		04/11/2013 15:46	1	1CD11014.D	DB-5MS 250 (um)
680-88980-A-21-C MSD		04/11/2013 16:05	1	1CD11015.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:18	1		DB-5MS 250 (um)
680-89038-1	CV0496A-CS-SP	04/11/2013 17:36	1	1CD11020.D	DB-5MS 250 (um)
680-89038-2	CV0496B-CS-SP	04/11/2013 17:54	1	1CD11021.D	DB-5MS 250 (um)
680-89038-3	CV0497A-CS-SP	04/11/2013 18:13	1	1CD11022.D	DB-5MS 250 (um)
680-89038-4	CV0497B-CS-SP	04/11/2013 18:31	1	1CD11023.D	DB-5MS 250 (um)
680-89038-5	CV1311A-CS-SP	04/11/2013 18:49	4	1CD11024.D	DB-5MS 250 (um)
680-89038-7	CV0052A-CS	04/11/2013 19:08	1	1CD11025.D	DB-5MS 250 (um)
680-89038-8	CV0052B-CS	04/11/2013 19:26	4	1CD11026.D	DB-5MS 250 (um)
680-89038-9	CV0053A-CS	04/11/2013 19:44	1	1CD11027.D	DB-5MS 250 (um)
680-89038-10	CV0053A-CSD	04/11/2013 20:03	4	1CD11028.D	DB-5MS 250 (um)
680-89038-11	CV0053B-CS	04/11/2013 20:21	1	1CD11029.D	DB-5MS 250 (um)
680-89038-12	CV0053C-CS	04/11/2013 20:39	4	1CD11030.D	DB-5MS 250 (um)
680-89038-13	CV0053D-CS	04/11/2013 20:58	4	1CD11031.D	DB-5MS 250 (um)
680-89038-14	CV0789A-CS	04/11/2013 21:16	1	1CD11032.D	DB-5MS 250 (um)
680-89038-15	CV0789B-CS	04/11/2013 21:34	1	1CD11033.D	DB-5MS 250 (um)
680-89038-16	CV0818A-CS	04/11/2013 21:53	1	1CD11034.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMC5973 Start Date: 04/12/2013 10:37Analysis Batch Number: 136414 End Date: 04/12/2013 17:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/12/2013 10:37	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 11:06	1		DB-5MS 250 (um)
DFTPP 660-136414/2		04/12/2013 11:24	1	1CD12002.D	DB-5MS 250 (um)
CCVIS 660-136414/3		04/12/2013 11:42	1	1CD12003.D	DB-5MS 250 (um)
ZZZZZ		04/12/2013 12:02	1		DB-5MS 250 (um)
680-89038-6	CV1311B-CS-SP	04/12/2013 12:20	1	1CD12005.D	DB-5MS 250 (um)
680-89038-6 MS	CV1311B-CS-SP MS	04/12/2013 12:38	1	1CD12006.D	DB-5MS 250 (um)
680-89038-6 MSD	CV1311B-CS-SP MSD	04/12/2013 12:57	1	1CD12007.D	DB-5MS 250 (um)
680-89038-17	CV0818B-CS	04/12/2013 13:15	4	1CD12008.D	DB-5MS 250 (um)
680-89038-18	CV0741A-CS-SP	04/12/2013 13:34	1	1CD12009.D	DB-5MS 250 (um)
680-89038-19	CV0741B-CS-SP	04/12/2013 13:52	1	1CD12010.D	DB-5MS 250 (um)
680-89038-20	CV0741C-GS-SP	04/12/2013 14:10	1	1CD12011.D	DB-5MS 250 (um)
ZZZZZ		04/12/2013 14:29	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 14:47	4		DB-5MS 250 (um)
ZZZZZ		04/12/2013 15:06	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 15:24	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 15:42	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 16:01	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 16:19	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 16:38	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 16:56	4		DB-5MS 250 (um)
ZZZZZ		04/12/2013 17:14	1		DB-5MS 250 (um)
ZZZZZ		04/12/2013 17:32	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250 (um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250 (um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250 (um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250 (um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250 (um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250 (um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250 (um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250 (um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250 (um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250 (um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250 (um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250 (um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250 (um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: BSMD5973 Start Date: 04/11/2013 09:50Analysis Batch Number: 136371 End Date: 04/11/2013 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 09:50	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 10:12	1		DB-5MS 250 (um)
DFTPP 660-136371/2		04/11/2013 10:37	1		DB-5MS 250 (um)
DFTPP 660-136371/3		04/11/2013 11:00	1	1DD11003.D	DB-5MS 250 (um)
CCVIS 660-136371/4		04/11/2013 11:20	1	1DD11004.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 11:43	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 12:06	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 12:28	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 12:51	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 13:14	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 13:36	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 13:59	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:21	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:44	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:00	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:22	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:45	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:30	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:53	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:15	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:38	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:01	1		DB-5MS 250 (um)
MB 660-136277/1-A		04/11/2013 19:23	1	1DD11023.D	DB-5MS 250 (um)
LCS 660-136277/2-A		04/11/2013 19:46	1	1DD11024.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:31	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:54	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Batch Number: 136266 Batch Start Date: 04/09/13 13:55 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/10/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136266/1		3546, 8270C LL		15.29 g	1 mL		1 mL		
LCS 660-136266/2		3546, 8270C LL		15.40 g	1 mL	1 mL	1 mL		
680-88980-A-21 MS		3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-88980-A-21 MSD		3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-89038-A-1	CV0496A-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-89038-A-2	CV0496B-CS-SP	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89038-A-3	CV0497A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-89038-A-4	CV0497B-CS-SP	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-89038-A-5	CV1311A-CS-SP	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89038-A-7	CV0052A-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-89038-A-8	CV0052B-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-89038-A-9	CV0053A-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-89038-A-10	CV0053A-CSD	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-89038-A-11	CV0053B-CS	3546, 8270C LL	T	15.35 g	1 mL		1 mL		
680-89038-A-12	CV0053C-CS	3546, 8270C LL	T	15.46 g	1 mL		1 mL		
680-89038-A-13	CV0053D-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-89038-A-14	CV0789A-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89038-A-15	CV0789B-CS	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-89038-A-16	CV0818A-CS	3546, 8270C LL	T	15.34 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.: 680-89038-1

SDG No.: _____

Batch Number: 136266 Batch Start Date: 04/09/13 13:55 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/10/13 10:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 68
Microwave Start Time	15:50 4/9/13
Microwave Stop Time	16:25 4/9/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Batch Number: 136277 Batch Start Date: 04/09/13 16:11 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/10/13 14:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136277/1		3546, 8270C LL		15.46 g	1 mL		1 mL		
LCS 660-136277/2		3546, 8270C LL		15.00 g	1 mL	1 mL	1 mL		
680-89038-A-6	CV1311B-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-89038-A-6 MS	CV1311B-CS-SP	3546, 8270C LL	T	15.34 g	1 mL	1 mL	1 mL		
680-89038-A-6 MSD	CV1311B-CS-SP	3546, 8270C LL	T	15.30 g	1 mL	1 mL	1 mL		
680-89038-A-17	CV0818B-CS	3546, 8270C LL	T	15.47 g	1 mL		1 mL		
680-89038-A-18	CV0741A-CS-SP	3546, 8270C LL	T	15.44 g	1 mL		1 mL		
680-89038-A-19	CV0741B-CS-SP	3546, 8270C LL	T	15.45 g	1 mL		1 mL		
680-89038-A-20	CV0741C-GS-SP	3546, 8270C LL	T	15.16 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.: 680-89038-1

SDG No.: _____

Batch Number: 136277 Batch Start Date: 04/09/13 16:11 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/10/13 14:50

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Acid used for Clean Up Reagent	N /A
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 668
Microwave Start Time	17:15 4/9/13
Microwave Stop Time	17:40 4/9/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #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: 680-89038-1

SDG No.: _____

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0496A-CS-SP	680-89038-1
CV0496B-CS-SP	680-89038-2
CV0497A-CS-SP	680-89038-3
CV0497B-CS-SP	680-89038-4
CV1311A-CS-SP	680-89038-5
CV1311B-CS-SP	680-89038-6
CV0052A-CS	680-89038-7
CV0052B-CS	680-89038-8
CV0053A-CS	680-89038-9
CV0053A-CSD	680-89038-10
CV0053B-CS	680-89038-11
CV0053C-CS	680-89038-12
CV0053D-CS	680-89038-13
CV0789A-CS	680-89038-14
CV0789B-CS	680-89038-15
CV0818A-CS	680-89038-16
CV0818B-CS	680-89038-17
CV0741A-CS-SP	680-89038-18
CV0741B-CS-SP	680-89038-19
CV0741C-GS-SP	680-89038-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89038-1
SDG Number: _____
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89038-1
SDG Number: _____
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89038-1
SDG Number: _____
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: 680-89038-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: Moisture Method: Moisture

Start Date: 04/08/2013 08:43 End Date: 04/08/2013 13:57

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCSD 660-136229/13	1	T	08:43	X															
LCS 660-136229/1	1	T	08:45	X															
ZZZZZZ			09:30																
ZZZZZZ			09:32																
ZZZZZZ			09:54																
ZZZZZZ			10:16																
ZZZZZZ			10:56																
ZZZZZZ			11:04																
ZZZZZZ			11:13																
680-89038-1	1	T	13:24	X															
680-89038-2	1	T	13:32	X															
680-89038-3	1	T	13:56	X															
680-89038-4	1	T	13:57	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 13:01 End Date: 04/08/2013 13:01

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
680-89038-16	1	T	13:01	X															
680-89038-17	1	T	13:01	X															
680-89038-18	1	T	13:01	X															
680-89038-19	1	T	13:01	X															
680-89038-20	1	T	13:01	X															
ZZZZZZ			13:01																
ZZZZZZ			13:01																
ZZZZZZ			13:01																
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ZZZZZZ			13:01																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Batch Number: 136226 Batch Start Date: 04/08/13 13:01 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89038-A-5	CV1311A-CS-SP	Moisture	T	26	0 g	4.80 g	3.17 g		
680-89038-A-6	CV1311B-CS-SP	Moisture	T	27	0 g	5.09 g	3.05 g		
680-89038-A-6	CV1311B-CS-SP	Moisture	T	27	0 g	5.09 g	3.05 g		
MS									
680-89038-A-6	CV1311B-CS-SP	Moisture	T	27	0 g	5.09 g	3.05 g		
MSD									
680-89038-A-7	CV0052A-CS	Moisture	T	28	0 g	4.78 g	2.87 g		
680-89038-A-8	CV0052B-CS	Moisture	T	29	0 g	4.47 g	2.64 g		
680-89038-A-9	CV0053A-CS	Moisture	T	30	0 g	5.40 g	3.22 g		
680-89038-A-10	CV0053A-CSD	Moisture	T	31	0 g	6.51 g	4.54 g		
680-89038-A-11	CV0053B-CS	Moisture	T	32	0 g	5.16 g	3.06 g		
680-89038-A-12	CV0053C-CS	Moisture	T	33	0 g	4.46 g	2.85 g		
680-89038-A-13	CV0053D-CS	Moisture	T	34	0 g	5.20 g	3.10 g		
680-89038-A-14	CV0789A-CS	Moisture	T	35	0 g	5.30 g	3.46 g		
680-89038-A-15	CV0789B-CS	Moisture	T	36	0 g	5.53 g	3.74 g		
680-89038-A-16	CV0818A-CS	Moisture	T	37	0 g	4.53 g	2.69 g		
680-89038-A-17	CV0818B-CS	Moisture	T	38	0 g	4.70 g	3.36 g		
680-89038-A-18	CV0741A-CS-SP	Moisture	T	39	0 g	4.29 g	3.12 g		
680-89038-A-19	CV0741B-CS-SP	Moisture	T	40	0 g	4.64 g	3.02 g		
680-89038-A-20	CV0741C-GS-SP	Moisture	T	41	0 g	5.48 g	2.84 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.8.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89038-1

SDG No.: _____

Batch Number: 136229 Batch Start Date: 04/08/13 08:43 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-136229/1		Moisture		0 g	10.029 g	9.032 g			
680-89038-A-1	CV0496A-CS-SP	Moisture	T	0 g	4.31 g	3.104 g			
680-89038-A-3	CV0497A-CS-SP	Moisture	T	0 g	4.146 g	2.252 g			
680-89038-A-4	CV0497B-CS-SP	Moisture	T	0 g	5.077 g	2.857 g			
680-89038-A-2	CV0496B-CS-SP	Moisture	T	0 g	4.984 g	3.194 g			
LCSD 660-136229/13		Moisture		0 g	10.039 g	9.019 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO. 2005/48-1356 PROJECT LOCATION (STATE) AL

MATRIX TYPE

REQUIRED ANALYSIS

PAGE 1 OF 3

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAN
RCRA 8 Metals

PRESERVATIVE

STANDARD REPORT DELIVERY
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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
4-3-B	0940	CV0496A-CS-SP	C	X			X													
	0950	CV0496B-CS-SP	C	X			X													
	0910	CV0497A-CS-SP	C	X			X													
	0920	CV0497B-CS-SP	C	X			X													
	1025	CV1311A-CS-SP	C	X			X													
	1035	CV1311B-CS-SP	C	X			X	X												
	1125	CV0052A-CS	C	X			X													
	1130	CV0052B-CS	C	X			X													
	0910	CV0053A-CS	C	X			X	X												
	0915	CV0053A-CSD	C	X			X	X												
	0925	CV0053B-CS	C	X			X													
	0930	CV0053C-CS	C	X			X													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <u>4-4-13</u>	TIME <u>0920</u>	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 <u>04/05/13</u>	TIME <u>0957</u>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <u>680</u> <u>89038</u>	LABORATORY REMARKS <u>4.2°</u>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
--	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LLPAH
Merel RCMA 8

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE _____

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

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	
<i>4-3-13</i>	<i>0940</i>	<i>CV0053D - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1044</i>	<i>CV0789A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1049</i>	<i>CV0789B - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1000</i>	<i>CV0818A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1007</i>	<i>CV0818B - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1350</i>	<i>CV0741A - CS - SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1400</i>	<i>CV0741B - CS - SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1405</i>	<i>CV0741C - GS - SP</i>	<i>G</i>	<i>X</i>			<i>X</i>											
	<i>1245</i>	<i>CV1254A - CS - SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1255</i>	<i>CV1254B - CS - SP</i>	<i>C</i>	<i>X</i>			<i>X</i>											
	<i>1305</i>	<i>CV Ditch - Grab</i>	<i>G</i>	<i>X</i>			<i>X</i>											
	<i>1420</i>	<i>CV 0332 A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-4-13</i>	TIME <i>0920</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>04/05/13</i>	TIME <i>0957</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-89038</i>	LABORATORY REMARKS <i>4.2c</i>		

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

Login Number: 89038
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

Login Number: 89038
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 04/08/13 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-89038-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/17/2013 12:27:19 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

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Have a Question?



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www.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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Case Narrative

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

TestAmerica Job ID: 680-89038-1

Job ID: 680-89038-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89038-1

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

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

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

RECEIPT

The samples were received on 04/05/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.2 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0496A-CS-SP (680-89038-1), CV0496B-CS-SP (680-89038-2), CV0497A-CS-SP (680-89038-3), CV0497B-CS-SP (680-89038-4), CV1311A-CS-SP (680-89038-5), CV1311B-CS-SP (680-89038-6), CV0052A-CS (680-89038-7), CV0052B-CS (680-89038-8), CV0053A-CS (680-89038-9), CV0053A-CSD (680-89038-10), CV0053B-CS (680-89038-11), CV0053C-CS (680-89038-12), CV0053D-CS (680-89038-13), CV0789A-CS (680-89038-14), CV0789B-CS (680-89038-15), CV0818A-CS (680-89038-16), CV0818B-CS (680-89038-17), CV0741A-CS-SP (680-89038-18), CV0741B-CS-SP (680-89038-19) and CV0741C-GS-SP (680-89038-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/09/2013 and analyzed on 04/11/2013 and 04/12/2013.

Samples CV1311A-CS-SP (680-89038-5)[4X], CV0052B-CS (680-89038-8)[4X], CV0053A-CSD (680-89038-10)[4X], CV0053C-CS (680-89038-12)[4X], CV0053D-CS (680-89038-13)[4X] and CV0818B-CS (680-89038-17)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria low for the MS of sample 680-88980-21 in batch 660-136370. Several analytes exceeded the rpd limit for the MSD of sample 680-88980-21 in batch 660-136370.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-89038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89038-1	CV0496A-CS-SP	Solid	04/03/13 09:40	04/05/13 11:23
680-89038-2	CV0496B-CS-SP	Solid	04/03/13 09:50	04/05/13 11:23
680-89038-3	CV0497A-CS-SP	Solid	04/03/13 09:10	04/05/13 11:23
680-89038-4	CV0497B-CS-SP	Solid	04/03/13 09:20	04/05/13 11:23
680-89038-5	CV1311A-CS-SP	Solid	04/03/13 10:25	04/05/13 11:23
680-89038-6	CV1311B-CS-SP	Solid	04/03/13 10:35	04/05/13 11:23
680-89038-7	CV0052A-CS	Solid	04/03/13 11:25	04/05/13 11:23
680-89038-8	CV0052B-CS	Solid	04/03/13 11:30	04/05/13 11:23
680-89038-9	CV0053A-CS	Solid	04/03/13 09:10	04/05/13 11:23
680-89038-10	CV0053A-CSD	Solid	04/03/13 09:15	04/05/13 11:23
680-89038-11	CV0053B-CS	Solid	04/03/13 09:25	04/05/13 11:23
680-89038-12	CV0053C-CS	Solid	04/03/13 09:30	04/05/13 11:23
680-89038-13	CV0053D-CS	Solid	04/03/13 09:40	04/05/13 11:23
680-89038-14	CV0789A-CS	Solid	04/03/13 10:44	04/05/13 11:23
680-89038-15	CV0789B-CS	Solid	04/03/13 10:49	04/05/13 11:23
680-89038-16	CV0818A-CS	Solid	04/03/13 10:00	04/05/13 11:23
680-89038-17	CV0818B-CS	Solid	04/03/13 10:07	04/05/13 11:23
680-89038-18	CV0741A-CS-SP	Solid	04/03/13 13:50	04/05/13 11:23
680-89038-19	CV0741B-CS-SP	Solid	04/03/13 14:00	04/05/13 11:23
680-89038-20	CV0741C-GS-SP	Solid	04/03/13 14:05	04/05/13 11:23

Method Summary

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

TestAmerica Job ID: 680-89038-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Definitions/Glossary

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

TestAmerica Job ID: 680-89038-1

Qualifiers

GC/MS Semi VOA

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

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: 680-89038-1

Client Sample ID: CV0496A-CS-SP

Lab Sample ID: 680-89038-1

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Acenaphthylene	12	J	55	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Anthracene	33		11	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[a]anthracene	91		11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[a]pyrene	85		14	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[b]fluoranthene	160		17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[g,h,i]perylene	73		27	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Benzo[k]fluoranthene	52		11	4.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Chrysene	120		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Dibenz(a,h)anthracene	71		27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Fluoranthene	100		27	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Fluorene	18	J	27	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Indeno[1,2,3-cd]pyrene	120		27	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
1-Methylnaphthalene	92		55	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
2-Methylnaphthalene	150		55	9.7	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Naphthalene	150		55	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Phenanthrene	150		11	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1
Pyrene	96		27	5.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130	04/09/13 13:55	04/11/13 17:36	1

Client Sample ID: CV0496B-CS-SP

Lab Sample ID: 680-89038-2

Date Collected: 04/03/13 09:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 64.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Acenaphthylene	62	U	62	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Anthracene	29		13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[a]anthracene	82		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[a]pyrene	76		16	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[b]fluoranthene	110		19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[g,h,i]perylene	46		31	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Benzo[k]fluoranthene	31		12	5.6	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Chrysene	96		14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Dibenz(a,h)anthracene	31	U	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Fluoranthene	170		31	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Fluorene	18	J	31	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Indeno[1,2,3-cd]pyrene	130		31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
1-Methylnaphthalene	62		62	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
2-Methylnaphthalene	92		62	11	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Naphthalene	110		62	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Phenanthrene	150		12	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1
Pyrene	140		31	5.8	ug/Kg	☼	04/09/13 13:55	04/11/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	04/09/13 13:55	04/11/13 17:54	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0497A-CS-SP

Lab Sample ID: 680-89038-3

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 54.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	37	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Acenaphthylene	73	U	73	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Anthracene	25		15	7.7	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[a]anthracene	200		15	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[a]pyrene	190		19	9.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[b]fluoranthene	350		22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[g,h,i]perylene	180		37	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Benzo[k]fluoranthene	130		15	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Chrysene	220		17	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Dibenz(a,h)anthracene	97		37	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Fluoranthene	220		37	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Fluorene	22	J	37	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Indeno[1,2,3-cd]pyrene	180		37	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
1-Methylnaphthalene	66	J	73	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
2-Methylnaphthalene	110		73	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Naphthalene	120		73	8.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Phenanthrene	150		15	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Pyrene	250		37	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/09/13 13:55	04/11/13 18:13	1

Client Sample ID: CV0497B-CS-SP

Lab Sample ID: 680-89038-4

Date Collected: 04/03/13 09:20

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 56.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	35	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Acenaphthylene	9.1	J	71	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Anthracene	15	U	15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[a]anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[a]pyrene	25		18	9.2	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[b]fluoranthene	35		22	11	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[g,h,i]perylene	26	J	35	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Benzo[k]fluoranthene	13	J	14	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Chrysene	33		16	8.0	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Dibenz(a,h)anthracene	35	U	35	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Fluoranthene	44		35	7.1	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Fluorene	35	U	35	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Indeno[1,2,3-cd]pyrene	110		35	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
1-Methylnaphthalene	43	J	71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
2-Methylnaphthalene	150		71	13	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Naphthalene	120		71	7.8	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Phenanthrene	14	U	14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Pyrene	36		35	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	50		30 - 130				04/09/13 13:55	04/11/13 18:31	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV1311A-CS-SP

Lab Sample ID: 680-89038-5

Date Collected: 04/03/13 10:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 66.0

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	☼	04/09/13 13:55	04/11/13 18:49	4
Acenaphthylene	240	U	240	30	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Anthracene	83		51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[a]anthracene	220		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[a]pyrene	240		63	32	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[b]fluoranthene	350		74	37	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[g,h,i]perylene	280		120	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Benzo[k]fluoranthene	200		49	22	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Chrysene	450		55	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Dibenz(a,h)anthracene	120	U	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Fluoranthene	390		120	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Fluorene	29	J	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Indeno[1,2,3-cd]pyrene	440		120	43	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
1-Methylnaphthalene	130	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
2-Methylnaphthalene	300		240	43	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Naphthalene	110	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Phenanthrene	340		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Pyrene	350		120	23	ug/Kg	☼	04/09/13 13:55	04/11/13 18:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		30 - 130				04/09/13 13:55	04/11/13 18:49	4

Client Sample ID: CV1311B-CS-SP

Lab Sample ID: 680-89038-6

Date Collected: 04/03/13 10:35

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	33	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Acenaphthylene	66	U	66	8.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Anthracene	10	J	14	7.0	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[a]anthracene	45		13	6.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[a]pyrene	37		17	8.6	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[b]fluoranthene	65		20	10	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[g,h,i]perylene	41		33	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Benzo[k]fluoranthene	27		13	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Chrysene	51		15	7.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Dibenz(a,h)anthracene	33	U	33	6.8	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Fluoranthene	74		33	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Fluorene	16	J	33	6.8	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Indeno[1,2,3-cd]pyrene	110		33	12	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
1-Methylnaphthalene	32	J	66	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
2-Methylnaphthalene	72		66	12	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Naphthalene	46	J	66	7.3	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Phenanthrene	55		13	6.5	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Pyrene	54		33	6.2	ug/Kg	☼	04/09/13 16:11	04/12/13 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 12:20	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0052A-CS

Lab Sample ID: 680-89038-7

Date Collected: 04/03/13 11:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 60.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	280		170	33	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Acenaphthylene	27	J	66	8.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Anthracene	360		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[a]anthracene	1100		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[a]pyrene	910		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[b]fluoranthene	1700		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[g,h,i]perylene	670		33	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Benzo[k]fluoranthene	600		13	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Chrysene	1200		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Dibenz(a,h)anthracene	240		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Fluoranthene	2900		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Fluorene	160		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Indeno[1,2,3-cd]pyrene	710		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
1-Methylnaphthalene	130		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
2-Methylnaphthalene	190		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Naphthalene	460		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Phenanthrene	2500		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Pyrene	2200		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/09/13 13:55	04/11/13 19:08	1

Client Sample ID: CV0052B-CS

Lab Sample ID: 680-89038-8

Date Collected: 04/03/13 11:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	660	U	660	130	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Acenaphthylene	56	J	270	33	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Anthracene	28	J	56	28	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[a]anthracene	160		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[a]pyrene	200		69	35	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[b]fluoranthene	260		81	41	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[g,h,i]perylene	120	J	130	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Benzo[k]fluoranthene	180		53	24	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Chrysene	250		60	30	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Fluoranthene	310		130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Fluorene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Indeno[1,2,3-cd]pyrene	130	U	130	47	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
1-Methylnaphthalene	89	J	270	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
2-Methylnaphthalene	290		270	47	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Naphthalene	170	J	270	29	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Phenanthrene	200		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Pyrene	310		130	25	ug/Kg	☼	04/09/13 13:55	04/11/13 19:26	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130				04/09/13 13:55	04/11/13 19:26	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053A-CS

Lab Sample ID: 680-89038-9

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Acenaphthylene	67	U	67	8.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Anthracene	19		14	7.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[a]anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[a]pyrene	62		17	8.7	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[b]fluoranthene	77		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[g,h,i]perylene	48		34	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Benzo[k]fluoranthene	20		13	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Chrysene	65		15	7.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Dibenz(a,h)anthracene	34	U	34	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Fluoranthene	85		34	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Fluorene	34	U	34	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Indeno[1,2,3-cd]pyrene	100		34	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
1-Methylnaphthalene	55	J	67	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
2-Methylnaphthalene	100		67	12	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Naphthalene	100		67	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Phenanthrene	100		13	6.5	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Pyrene	57		34	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				04/09/13 13:55	04/11/13 19:44	1

Client Sample ID: CV0053A-CSD

Lab Sample ID: 680-89038-10

Date Collected: 04/03/13 09:15

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 69.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Acenaphthylene	63	J	230	28	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Anthracene	72		48	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[a]anthracene	45	U	45	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[a]pyrene	220		59	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[b]fluoranthene	320		69	35	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[g,h,i]perylene	170		110	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Benzo[k]fluoranthene	65		45	20	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Chrysene	240		51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Fluoranthene	290		110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Fluorene	36	J	110	23	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Indeno[1,2,3-cd]pyrene	360		110	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
1-Methylnaphthalene	140	J	230	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
2-Methylnaphthalene	330		230	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Naphthalene	250		230	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Phenanthrene	310		45	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Pyrene	220		110	21	ug/Kg	☼	04/09/13 13:55	04/11/13 20:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		30 - 130				04/09/13 13:55	04/11/13 20:03	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053B-CS

Lab Sample ID: 680-89038-11

Date Collected: 04/03/13 09:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Acenaphthylene	20	J	66	8.2	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Anthracene	31		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[a]anthracene	200		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[a]pyrene	130		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[b]fluoranthene	250		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[g,h,i]perylene	140		33	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Benzo[k]fluoranthene	85		13	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Chrysene	210		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Dibenz(a,h)anthracene	90		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Fluoranthene	250		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Fluorene	18	J	33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Indeno[1,2,3-cd]pyrene	180		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
1-Methylnaphthalene	220		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
2-Methylnaphthalene	250		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Naphthalene	210		66	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Phenanthrene	240		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Pyrene	240		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				04/09/13 13:55	04/11/13 20:21	1

Client Sample ID: CV0053C-CS

Lab Sample ID: 680-89038-12

Date Collected: 04/03/13 09:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 63.9

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	☼	04/09/13 13:55	04/11/13 20:39	4
Acenaphthylene	63	J	240	30	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Anthracene	44	J	51	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[a]anthracene	49	U	49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[a]pyrene	240		63	32	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[b]fluoranthene	370		74	37	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[g,h,i]perylene	260		120	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Benzo[k]fluoranthene	120		49	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Chrysene	240		55	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Dibenz(a,h)anthracene	120	U	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Fluoranthene	280		120	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Fluorene	39	J	120	25	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Indeno[1,2,3-cd]pyrene	420		120	43	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
1-Methylnaphthalene	240	U	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
2-Methylnaphthalene	180	J	240	43	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Naphthalene	85	J	240	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Phenanthrene	250		49	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Pyrene	270		120	22	ug/Kg	☼	04/09/13 13:55	04/11/13 20:39	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130				04/09/13 13:55	04/11/13 20:39	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053D-CS

Lab Sample ID: 680-89038-13

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	660	U	660	130	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Acenaphthylene	82	J	260	33	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Anthracene	86		55	28	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[a]anthracene	240		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[a]pyrene	190		69	34	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[b]fluoranthene	340		81	40	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[g,h,i]perylene	300		130	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Benzo[k]fluoranthene	120		53	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Chrysene	310		59	30	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Dibenz(a,h)anthracene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Fluoranthene	340		130	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Fluorene	130	U	130	27	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Indeno[1,2,3-cd]pyrene	520		130	47	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
1-Methylnaphthalene	630		260	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
2-Methylnaphthalene	800		260	47	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Naphthalene	400		260	29	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Phenanthrene	510		53	26	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Pyrene	360		130	24	ug/Kg	☼	04/09/13 13:55	04/11/13 20:58	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	91		30 - 130				04/09/13 13:55	04/11/13 20:58	4

Client Sample ID: CV0789A-CS

Lab Sample ID: 680-89038-14

Date Collected: 04/03/13 10:44

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Acenaphthylene	25	J	61	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Anthracene	25		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[a]anthracene	110		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[a]pyrene	120		16	8.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[b]fluoranthene	220		19	9.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[g,h,i]perylene	120		31	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Benzo[k]fluoranthene	79		12	5.5	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Chrysene	140		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Dibenz(a,h)anthracene	71		31	6.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Fluoranthene	130		31	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Fluorene	31	U	31	6.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Indeno[1,2,3-cd]pyrene	140		31	11	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
1-Methylnaphthalene	53	J	61	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
2-Methylnaphthalene	110		61	11	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Naphthalene	72		61	6.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Phenanthrene	88		12	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Pyrene	120		31	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/09/13 13:55	04/11/13 21:16	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0789B-CS

Lab Sample ID: 680-89038-15

Date Collected: 04/03/13 10:49

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 67.6

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	☼	04/09/13 13:55	04/11/13 21:34	1
Acenaphthylene	12	J	59	7.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Anthracene	23		12	6.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[a]anthracene	79		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[a]pyrene	46		15	7.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[b]fluoranthene	80		18	8.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[g,h,i]perylene	53		29	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Benzo[k]fluoranthene	23		12	5.3	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Chrysene	94		13	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Dibenz(a,h)anthracene	29	U	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Fluoranthene	83		29	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Fluorene	8.7	J	29	6.0	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Indeno[1,2,3-cd]pyrene	92		29	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
1-Methylnaphthalene	250		59	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
2-Methylnaphthalene	230		59	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Naphthalene	130		59	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Phenanthrene	200		12	5.7	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Pyrene	88		29	5.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				04/09/13 13:55	04/11/13 21:34	1

Client Sample ID: CV0818A-CS

Lab Sample ID: 680-89038-16

Date Collected: 04/03/13 10:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Acenaphthylene	49	J	66	8.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Anthracene	62		14	6.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[a]anthracene	210		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[a]pyrene	220		17	8.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[b]fluoranthene	330		20	10	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[g,h,i]perylene	150		33	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Benzo[k]fluoranthene	110		13	5.9	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Chrysene	240		15	7.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Dibenz(a,h)anthracene	99		33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Fluoranthene	400		33	6.6	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Fluorene	24	J	33	6.8	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Indeno[1,2,3-cd]pyrene	180		33	12	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
1-Methylnaphthalene	53	J	66	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
2-Methylnaphthalene	110		66	12	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Naphthalene	88		66	7.2	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Phenanthrene	200		13	6.4	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Pyrene	380		33	6.1	ug/Kg	☼	04/09/13 13:55	04/11/13 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				04/09/13 13:55	04/11/13 21:53	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0818B-CS

Lab Sample ID: 680-89038-17

Date Collected: 04/03/13 10:07

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 71.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Acenaphthylene	33	J	220	27	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Anthracene	31	J	46	23	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[a]anthracene	43	U	43	21	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[a]pyrene	110		56	28	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[b]fluoranthene	140		66	33	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[g,h,i]perylene	82	J	110	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Benzo[k]fluoranthene	66		43	20	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Chrysene	83		49	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Fluoranthene	130		110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Fluorene	110	U	110	22	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Indeno[1,2,3-cd]pyrene	110	U	110	39	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
1-Methylnaphthalene	43	J	220	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
2-Methylnaphthalene	170	J	220	39	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Naphthalene	45	J	220	24	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Phenanthrene	43	U	43	21	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Pyrene	130		110	20	ug/Kg	☼	04/09/13 16:11	04/12/13 13:15	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	108		30 - 130				04/09/13 16:11	04/12/13 13:15	4

Client Sample ID: CV0741A-CS-SP

Lab Sample ID: 680-89038-18

Date Collected: 04/03/13 13:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Acenaphthylene	53	U	53	6.7	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Anthracene	11	U	11	5.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[a]anthracene	11	U	11	5.2	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[a]pyrene	35		14	6.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[b]fluoranthene	65		16	8.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[g,h,i]perylene	29		27	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Benzo[k]fluoranthene	17		11	4.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Chrysene	27		12	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Dibenz(a,h)anthracene	27	U	27	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Fluoranthene	50		27	5.3	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Fluorene	27	U	27	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Indeno[1,2,3-cd]pyrene	85		27	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
1-Methylnaphthalene	5.9	J	53	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
2-Methylnaphthalene	53	U	53	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Naphthalene	7.0	J	53	5.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Phenanthrene	11	U	11	5.2	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Pyrene	39		27	4.9	ug/Kg	☼	04/09/13 16:11	04/12/13 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		30 - 130				04/09/13 16:11	04/12/13 13:34	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0741B-CS-SP

Lab Sample ID: 680-89038-19

Date Collected: 04/03/13 14:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Acenaphthylene	12	J	60	7.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Anthracene	13	U	13	6.3	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[a]anthracene	12	U	12	5.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[a]pyrene	28		16	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[b]fluoranthene	35		18	9.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[g,h,i]perylene	13	J	30	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Benzo[k]fluoranthene	11	J	12	5.4	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Chrysene	17		13	6.7	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Dibenz(a,h)anthracene	30	U	30	6.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Fluoranthene	32		30	6.0	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Fluorene	30	U	30	6.1	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Indeno[1,2,3-cd]pyrene	30	U	30	11	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
1-Methylnaphthalene	7.5	J	60	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
2-Methylnaphthalene	60	U	60	11	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Naphthalene	6.9	J	60	6.6	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Phenanthrene	12	U	12	5.8	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Pyrene	13	J	30	5.5	ug/Kg	☼	04/09/13 16:11	04/12/13 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 13:52	1

Client Sample ID: CV0741C-GS-SP

Lab Sample ID: 680-89038-20

Date Collected: 04/03/13 14:05

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 51.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	U	190	38	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Acenaphthylene	21	J	76	9.5	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Anthracene	16	U	16	8.0	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[a]anthracene	45		15	7.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[a]pyrene	23		20	9.9	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[b]fluoranthene	51		23	12	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[g,h,i]perylene	50		38	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Benzo[k]fluoranthene	21		15	6.9	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Chrysene	33		17	8.6	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Dibenz(a,h)anthracene	38	U	38	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Fluoranthene	31	J	38	7.6	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Fluorene	38	U	38	7.8	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Indeno[1,2,3-cd]pyrene	38	U	38	14	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
1-Methylnaphthalene	76	U	76	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
2-Methylnaphthalene	76	U	76	14	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Naphthalene	19	J	76	8.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Phenanthrene	15	U	15	7.4	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Pyrene	18	J	38	7.1	ug/Kg	☼	04/09/13 16:11	04/12/13 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		30 - 130				04/09/13 16:11	04/12/13 14:10	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89038-1

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

Lab Sample ID: MB 660-136266/1-A

Matrix: Solid

Analysis Batch: 136370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Fluorene	20	U	20	4.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Naphthalene	39	U	39	4.3	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/09/13 13:55	04/11/13 14:51	1
Pyrene	20	U	20	3.6	ug/Kg		04/09/13 13:55	04/11/13 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130	04/09/13 13:55	04/11/13 14:51	1

Lab Sample ID: LCS 660-136266/2-A

Matrix: Solid

Analysis Batch: 136370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	649	362		ug/Kg		56	39 - 130
Acenaphthylene	649	425		ug/Kg		66	38 - 130
Anthracene	649	401		ug/Kg		62	37 - 130
Benzo[a]anthracene	649	375		ug/Kg		58	40 - 130
Benzo[a]pyrene	649	321		ug/Kg		49	49 - 130
Benzo[b]fluoranthene	649	499		ug/Kg		77	37 - 130
Benzo[g,h,i]perylene	649	380		ug/Kg		59	32 - 130
Benzo[k]fluoranthene	649	394		ug/Kg		61	32 - 130
Chrysene	649	359		ug/Kg		55	41 - 130
Dibenz(a,h)anthracene	649	403		ug/Kg		62	27 - 130
Fluoranthene	649	453		ug/Kg		70	40 - 130
Fluorene	649	396		ug/Kg		61	40 - 130
Indeno[1,2,3-cd]pyrene	649	356		ug/Kg		55	30 - 130
1-Methylnaphthalene	649	338		ug/Kg		52	31 - 130
2-Methylnaphthalene	649	365		ug/Kg		56	33 - 130
Naphthalene	649	384		ug/Kg		59	36 - 130
Phenanthrene	649	366		ug/Kg		56	42 - 130
Pyrene	649	398		ug/Kg		61	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89038-1

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

Lab Sample ID: LCS 660-136266/2-A
Matrix: Solid
Analysis Batch: 136370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136266

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	61		30 - 130

Lab Sample ID: MB 660-136277/1-A
Matrix: Solid
Analysis Batch: 136371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136277

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	97	U	97	19	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Benzo[a]pyrene	10	U	10	5.0	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Chrysene	8.7	U	8.7	4.4	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Fluoranthene	19	U	19	3.9	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Fluorene	19	U	19	4.0	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Naphthalene	39	U	39	4.3	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/09/13 16:11	04/11/13 19:23	1
Pyrene	19	U	19	3.6	ug/Kg		04/09/13 16:11	04/11/13 19:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	64		30 - 130	04/09/13 16:11	04/11/13 19:23	1

Lab Sample ID: LCS 660-136277/2-A
Matrix: Solid
Analysis Batch: 136371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136277

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	667	524		ug/Kg		79	39 - 130
Acenaphthylene	667	545		ug/Kg		82	38 - 130
Anthracene	667	557		ug/Kg		84	37 - 130
Benzo[a]anthracene	667	588		ug/Kg		88	40 - 130
Benzo[a]pyrene	667	531		ug/Kg		80	49 - 130
Benzo[b]fluoranthene	667	594		ug/Kg		89	37 - 130
Benzo[g,h,i]perylene	667	583		ug/Kg		88	32 - 130
Benzo[k]fluoranthene	667	599		ug/Kg		90	32 - 130
Chrysene	667	571		ug/Kg		86	41 - 130
Dibenz(a,h)anthracene	667	621		ug/Kg		93	27 - 130
Fluoranthene	667	600		ug/Kg		90	40 - 130
Fluorene	667	579		ug/Kg		87	40 - 130
Indeno[1,2,3-cd]pyrene	667	595		ug/Kg		89	30 - 130
1-Methylnaphthalene	667	565		ug/Kg		85	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89038-1

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

Lab Sample ID: LCS 660-136277/2-A

Matrix: Solid

Analysis Batch: 136371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	556		ug/Kg		83	33 - 130
Naphthalene	667	533		ug/Kg		80	36 - 130
Phenanthrene	667	543		ug/Kg		81	42 - 130
Pyrene	667	552		ug/Kg		83	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	87		30 - 130

Lab Sample ID: 680-89038-6 MS

Matrix: Solid

Analysis Batch: 136414

Client Sample ID: CV1311B-CS-SP

Prep Type: Total/NA

Prep Batch: 136277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	170	U	1090	702		ug/Kg	☼	65	39 - 130
Acenaphthylene	66	U	1090	720		ug/Kg	☼	66	38 - 130
Anthracene	10	J	1090	785		ug/Kg	☼	71	37 - 130
Benzo[a]anthracene	45		1090	817		ug/Kg	☼	71	40 - 130
Benzo[a]pyrene	37		1090	696		ug/Kg	☼	61	49 - 130
Benzo[b]fluoranthene	65		1090	949		ug/Kg	☼	81	37 - 130
Benzo[g,h,i]perylene	41		1090	658		ug/Kg	☼	57	32 - 130
Benzo[k]fluoranthene	27		1090	726		ug/Kg	☼	64	32 - 130
Chrysene	51		1090	818		ug/Kg	☼	70	41 - 130
Dibenz(a,h)anthracene	33	U	1090	722		ug/Kg	☼	66	27 - 130
Fluoranthene	74		1090	912		ug/Kg	☼	77	40 - 130
Fluorene	16	J	1090	755		ug/Kg	☼	68	40 - 130
Indeno[1,2,3-cd]pyrene	110		1090	681		ug/Kg	☼	53	30 - 130
1-Methylnaphthalene	32	J	1090	832		ug/Kg	☼	74	31 - 130
2-Methylnaphthalene	72		1090	822		ug/Kg	☼	69	33 - 130
Naphthalene	46	J	1090	729		ug/Kg	☼	63	36 - 130
Phenanthrene	55		1090	849		ug/Kg	☼	73	42 - 130
Pyrene	54		1090	808		ug/Kg	☼	69	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	63		30 - 130

Lab Sample ID: 680-89038-6 MSD

Matrix: Solid

Analysis Batch: 136414

Client Sample ID: CV1311B-CS-SP

Prep Type: Total/NA

Prep Batch: 136277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	170	U	1090	589		ug/Kg	☼	54	39 - 130	18	40
Acenaphthylene	66	U	1090	659		ug/Kg	☼	60	38 - 130	9	40
Anthracene	10	J	1090	728		ug/Kg	☼	66	37 - 130	7	40
Benzo[a]anthracene	45		1090	846		ug/Kg	☼	73	40 - 130	4	40
Benzo[a]pyrene	37		1090	693		ug/Kg	☼	60	49 - 130	0	40
Benzo[b]fluoranthene	65		1090	848		ug/Kg	☼	72	37 - 130	11	40
Benzo[g,h,i]perylene	41		1090	709		ug/Kg	☼	61	32 - 130	7	40
Benzo[k]fluoranthene	27		1090	754		ug/Kg	☼	67	32 - 130	4	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89038-1

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

Lab Sample ID: 680-89038-6 MSD

Matrix: Solid

Analysis Batch: 136414

Client Sample ID: CV1311B-CS-SP

Prep Type: Total/NA

Prep Batch: 136277

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	51		1090	763		ug/Kg	*	65	41 - 130	7	40
Dibenz(a,h)anthracene	33	U	1090	706		ug/Kg	*	65	27 - 130	2	40
Fluoranthene	74		1090	866		ug/Kg	*	73	40 - 130	5	40
Fluorene	16	J	1090	710		ug/Kg	*	64	40 - 130	6	40
Indeno[1,2,3-cd]pyrene	110		1090	666		ug/Kg	*	51	30 - 130	2	40
1-Methylnaphthalene	32	J	1090	651		ug/Kg	*	57	31 - 130	24	40
2-Methylnaphthalene	72		1090	781		ug/Kg	*	65	33 - 130	5	40
Naphthalene	46	J	1090	661		ug/Kg	*	56	36 - 130	10	40
Phenanthrene	55		1090	827		ug/Kg	*	71	42 - 130	3	40
Pyrene	54		1090	801		ug/Kg	*	68	44 - 130	1	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	60		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-89038-1

GC/MS Semi VOA

Prep Batch: 136266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-1	CV0496A-CS-SP	Total/NA	Solid	3546	
680-89038-2	CV0496B-CS-SP	Total/NA	Solid	3546	
680-89038-3	CV0497A-CS-SP	Total/NA	Solid	3546	
680-89038-4	CV0497B-CS-SP	Total/NA	Solid	3546	
680-89038-5	CV1311A-CS-SP	Total/NA	Solid	3546	
680-89038-7	CV0052A-CS	Total/NA	Solid	3546	
680-89038-8	CV0052B-CS	Total/NA	Solid	3546	
680-89038-9	CV0053A-CS	Total/NA	Solid	3546	
680-89038-10	CV0053A-CSD	Total/NA	Solid	3546	
680-89038-11	CV0053B-CS	Total/NA	Solid	3546	
680-89038-12	CV0053C-CS	Total/NA	Solid	3546	
680-89038-13	CV0053D-CS	Total/NA	Solid	3546	
680-89038-14	CV0789A-CS	Total/NA	Solid	3546	
680-89038-15	CV0789B-CS	Total/NA	Solid	3546	
680-89038-16	CV0818A-CS	Total/NA	Solid	3546	
LCS 660-136266/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136266/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-6	CV1311B-CS-SP	Total/NA	Solid	3546	
680-89038-6 MS	CV1311B-CS-SP	Total/NA	Solid	3546	
680-89038-6 MSD	CV1311B-CS-SP	Total/NA	Solid	3546	
680-89038-17	CV0818B-CS	Total/NA	Solid	3546	
680-89038-18	CV0741A-CS-SP	Total/NA	Solid	3546	
680-89038-19	CV0741B-CS-SP	Total/NA	Solid	3546	
680-89038-20	CV0741C-GS-SP	Total/NA	Solid	3546	
LCS 660-136277/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136277/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-1	CV0496A-CS-SP	Total/NA	Solid	8270C LL	136266
680-89038-2	CV0496B-CS-SP	Total/NA	Solid	8270C LL	136266
680-89038-3	CV0497A-CS-SP	Total/NA	Solid	8270C LL	136266
680-89038-4	CV0497B-CS-SP	Total/NA	Solid	8270C LL	136266
680-89038-5	CV1311A-CS-SP	Total/NA	Solid	8270C LL	136266
680-89038-7	CV0052A-CS	Total/NA	Solid	8270C LL	136266
680-89038-8	CV0052B-CS	Total/NA	Solid	8270C LL	136266
680-89038-9	CV0053A-CS	Total/NA	Solid	8270C LL	136266
680-89038-10	CV0053A-CSD	Total/NA	Solid	8270C LL	136266
680-89038-11	CV0053B-CS	Total/NA	Solid	8270C LL	136266
680-89038-12	CV0053C-CS	Total/NA	Solid	8270C LL	136266
680-89038-13	CV0053D-CS	Total/NA	Solid	8270C LL	136266
680-89038-14	CV0789A-CS	Total/NA	Solid	8270C LL	136266
680-89038-15	CV0789B-CS	Total/NA	Solid	8270C LL	136266
680-89038-16	CV0818A-CS	Total/NA	Solid	8270C LL	136266
LCS 660-136266/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136266
MB 660-136266/1-A	Method Blank	Total/NA	Solid	8270C LL	136266

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89038-1

GC/MS Semi VOA (Continued)

Analysis Batch: 136371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136277/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136277
MB 660-136277/1-A	Method Blank	Total/NA	Solid	8270C LL	136277

Analysis Batch: 136414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-6	CV1311B-CS-SP	Total/NA	Solid	8270C LL	136277
680-89038-6 MS	CV1311B-CS-SP	Total/NA	Solid	8270C LL	136277
680-89038-6 MSD	CV1311B-CS-SP	Total/NA	Solid	8270C LL	136277
680-89038-17	CV0818B-CS	Total/NA	Solid	8270C LL	136277
680-89038-18	CV0741A-CS-SP	Total/NA	Solid	8270C LL	136277
680-89038-19	CV0741B-CS-SP	Total/NA	Solid	8270C LL	136277
680-89038-20	CV0741C-GS-SP	Total/NA	Solid	8270C LL	136277

General Chemistry

Analysis Batch: 136226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-5	CV1311A-CS-SP	Total/NA	Solid	Moisture	
680-89038-6	CV1311B-CS-SP	Total/NA	Solid	Moisture	
680-89038-6 MS	CV1311B-CS-SP	Total/NA	Solid	Moisture	
680-89038-6 MSD	CV1311B-CS-SP	Total/NA	Solid	Moisture	
680-89038-7	CV0052A-CS	Total/NA	Solid	Moisture	
680-89038-8	CV0052B-CS	Total/NA	Solid	Moisture	
680-89038-9	CV0053A-CS	Total/NA	Solid	Moisture	
680-89038-10	CV0053A-CSD	Total/NA	Solid	Moisture	
680-89038-11	CV0053B-CS	Total/NA	Solid	Moisture	
680-89038-12	CV0053C-CS	Total/NA	Solid	Moisture	
680-89038-13	CV0053D-CS	Total/NA	Solid	Moisture	
680-89038-14	CV0789A-CS	Total/NA	Solid	Moisture	
680-89038-15	CV0789B-CS	Total/NA	Solid	Moisture	
680-89038-16	CV0818A-CS	Total/NA	Solid	Moisture	
680-89038-17	CV0818B-CS	Total/NA	Solid	Moisture	
680-89038-18	CV0741A-CS-SP	Total/NA	Solid	Moisture	
680-89038-19	CV0741B-CS-SP	Total/NA	Solid	Moisture	
680-89038-20	CV0741C-GS-SP	Total/NA	Solid	Moisture	

Analysis Batch: 136229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89038-1	CV0496A-CS-SP	Total/NA	Solid	Moisture	
680-89038-2	CV0496B-CS-SP	Total/NA	Solid	Moisture	
680-89038-3	CV0497A-CS-SP	Total/NA	Solid	Moisture	
680-89038-4	CV0497B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-136229/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-136229/13	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0496A-CS-SP

Lab Sample ID: 680-89038-1

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 17:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136229	04/08/13 13:24	AG	TAL TAM

Client Sample ID: CV0496B-CS-SP

Lab Sample ID: 680-89038-2

Date Collected: 04/03/13 09:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 64.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 17:54	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136229	04/08/13 13:32	AG	TAL TAM

Client Sample ID: CV0497A-CS-SP

Lab Sample ID: 680-89038-3

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 54.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 18:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136229	04/08/13 13:56	AG	TAL TAM

Client Sample ID: CV0497B-CS-SP

Lab Sample ID: 680-89038-4

Date Collected: 04/03/13 09:20

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 56.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 18:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136229	04/08/13 13:57	AG	TAL TAM

Client Sample ID: CV1311A-CS-SP

Lab Sample ID: 680-89038-5

Date Collected: 04/03/13 10:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 66.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136370	04/11/13 18:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV1311B-CS-SP

Lab Sample ID: 680-89038-6

Date Collected: 04/03/13 10:35

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136277	04/09/13 16:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136414	04/12/13 12:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0052A-CS

Lab Sample ID: 680-89038-7

Date Collected: 04/03/13 11:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 60.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 19:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0052B-CS

Lab Sample ID: 680-89038-8

Date Collected: 04/03/13 11:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136370	04/11/13 19:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0053A-CS

Lab Sample ID: 680-89038-9

Date Collected: 04/03/13 09:10

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 19:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0053A-CSD

Lab Sample ID: 680-89038-10

Date Collected: 04/03/13 09:15

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 69.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136370	04/11/13 20:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0053B-CS

Lab Sample ID: 680-89038-11

Date Collected: 04/03/13 09:25

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 20:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0053C-CS

Lab Sample ID: 680-89038-12

Date Collected: 04/03/13 09:30

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 63.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136370	04/11/13 20:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0053D-CS

Lab Sample ID: 680-89038-13

Date Collected: 04/03/13 09:40

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136370	04/11/13 20:58	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0789A-CS

Lab Sample ID: 680-89038-14

Date Collected: 04/03/13 10:44

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 21:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0789B-CS

Lab Sample ID: 680-89038-15

Date Collected: 04/03/13 10:49

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 67.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 21:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89038-1

Client Sample ID: CV0818A-CS

Lab Sample ID: 680-89038-16

Date Collected: 04/03/13 10:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 59.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136266	04/09/13 13:55	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136370	04/11/13 21:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0818B-CS

Lab Sample ID: 680-89038-17

Date Collected: 04/03/13 10:07

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 71.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136277	04/09/13 16:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136414	04/12/13 13:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0741A-CS-SP

Lab Sample ID: 680-89038-18

Date Collected: 04/03/13 13:50

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136277	04/09/13 16:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136414	04/12/13 13:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0741B-CS-SP

Lab Sample ID: 680-89038-19

Date Collected: 04/03/13 14:00

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 65.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136277	04/09/13 16:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136414	04/12/13 13:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0741C-GS-SP

Lab Sample ID: 680-89038-20

Date Collected: 04/03/13 14:05

Matrix: Solid

Date Received: 04/05/13 11:23

Percent Solids: 51.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136277	04/09/13 16:11	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136414	04/12/13 14:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005148-1356 PROJECT LOCATION (STATE): AL MATRIX TYPE: LL PAN REQUIRED ANALYSIS: PCRA 8 metals PAGE: 1 OF 3

(b) (6)

STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable): _____

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
								1	2	3	4	5	6	7	8	9	10		11	12	
4-3-B	0940	CV0496A-CS-SP	C	X			X														
	0950	CV0496B-CS-SP	C	X			X														
	0910	CV0497A-CS-SP	C	X			X														
	0920	CV0497B-CS-SP	C	X			X														
	1025	CV1311A-CS-SP	C	X			X														
	1035	CV1311B-CS-SP	C	X			X	X													
	1125	CV0052A-CS	C	X			X														
	1130	CV0052B-CS	C	X			X														
	0910	CV0053A-CS	C	X			X	X													
	0915	CV0053A-CSD	C	X			X	X													
	0925	CV0053B-CS	C	X			X														
	0930	CV0053C-CS	C	X			X														

RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>4-4-13</u>	TIME <u>0920</u>	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) <u>[Signature]</u>	DATE <u>04/05/13</u>	TIME <u>0957</u>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <u>680</u> <u>89038</u>	LABORATORY REMARKS <u>4.2c</u>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

<i>LLPAH</i>	<i>Merel RCMA 8</i>																													
PRESERVATIVE																														

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____

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				
<i>4-3-13</i>	<i>0940</i>	<i>CV0053D - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1044</i>	<i>CV0789A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1049</i>	<i>CV0789B - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1000</i>	<i>CV0818A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1007</i>	<i>CV0818B - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1350</i>	<i>CV0741A - CS - SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1400</i>	<i>CV0741B - CS - SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1405</i>	<i>CV0741C - GS - SP</i>	<i>G</i>	<i>X</i>				<i>X</i>																	
	<i>1245</i>	<i>CV1254A - CS - SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1255</i>	<i>CV1254B - CS - SP</i>	<i>C</i>	<i>X</i>				<i>X</i>																	
	<i>1305</i>	<i>CV Ditch - Grab</i>	<i>G</i>	<i>X</i>				<i>X</i>																	
	<i>1420</i>	<i>CV 0332 A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-4-13</i>	TIME <i>0920</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>4/05/13</i>	TIME <i>0957</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-29038</i>	LABORATORY REMARKS <i>y.2c</i>
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Page 27 of 31

4/17/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

Login Number: 89038

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89038-1

Login Number: 89038

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 04/08/13 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have 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	

Certification Summary

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

TestAmerica Job ID: 680-89038-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-89038-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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