

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.: 680-88980-1
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/02/2013
 Date: 04/19/2013
 Date: 04/30/2013

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.		✓		Samples were received by TestAmerica Savannah, GA on 4/4/2103 at 2.8°C; however, samples were repackaged and shipped to TestAmerica Tampa, FL on 4/8/2013 at 11.5°C. Sample temperatures were >6°C; therefore, all samples results were considered estimated (J,UJ). Refer to Attachment C (Case Narrative).	J,UJ
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.	✓				

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
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).	
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?	✓			CV0668A-CSD (680-88980-10) is a field duplicate of CV0668A-CS (680-88980-9).	
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? - 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.	✓			- Instrument ID: BSMC5973 - Initial Calibration: 04/02/2013 - ICV: 04/02/13 @ 15:34 - CCV: 04/10/13 @ 12:10 - Instrument ID: BSMD5973 - Initial Calibration: 04/04/2013 - ICV: 04/04/13 @ 16:27 - CCV: 04/11/13 @ 11:20	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? - ICAL (Criteria: ≤ 15 mean %RSD with no 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)): - If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, 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 ≥ 0.050 (≥ 0.010 for poor performers)): - 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		✓		ICV of 04/02/13 @ 15:34, instrument BSMC5973: - Benzo[a]pyrene @ -24.3 %D (Lab: ≤ 35, Project: ≤ 20), 75.5%R - Benzo[b]fluoranthene @ -21.1 %D (Lab: ≤ 35, Project: ≤ 20), 79.0%R - Chrysene @ -23.5 %D (Lab: ≤ 35, Project: ≤ 20), 76.5%R - Pyrene @ -21.4 %D (Lab: ≤ 35, Project: ≤ 20), 78.5%R A negative bias is indicated by the CCV percent difference and the four analytes were detected in associated samples ³ ; therefore, J and UJ flag detected and non-detect results, respectively. ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @ -23.7 %D (Lab: ≤ 35 , Project: ≤ 20), 76.5%R. A negative bias is indicated by the CCV percent difference and the analyte was detected in the associated sample ⁴ ; therefore, J-flag result.	J, UJ
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 136250: 680-88980-8 (CV0666B-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> - 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,	✓				

³ Associated sample(s): 680-88980-1 through -19⁴ Associated sample: 680-88980-20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 <LCL: J-Flag positive and UJ-flag non-detect results - MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> - 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		✓		CV0666B-CS (680-88980-8): Fluoranthene @ 47 %RPD (≤40). J-Flag	J
27. Were surrogate recoveries within lab/project specifications? - 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? - 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	✓				

Data Validation Checklist (Continued)

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

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: 680-88980-1
SDG: 68088980-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-1	HP0176A-CS-SP	Solid	04/02/13 10:00	04/04/13 09:52
680-88980-2	HP0176B-CS-SP	Solid	04/02/13 10:10	04/04/13 09:52
680-88980-3	HP0257A-CS-SP	Solid	04/02/13 09:20	04/04/13 09:52
680-88980-4	HP0257B-CS-SP	Solid	04/02/13 09:30	04/04/13 09:52
680-88980-5	CV0380A-CS	Solid	04/02/13 09:40	04/04/13 09:52
680-88980-6	CV0380B-CS	Solid	04/02/13 09:48	04/04/13 09:52
680-88980-7	CV0666A-CS	Solid	04/02/13 09:10	04/04/13 09:52
680-88980-8	CV0666B-CS	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-9	CV0668A-CS	Solid	04/02/13 08:40	04/04/13 09:52
680-88980-10	CV0668A-CSD	Solid	04/02/13 08:42	04/04/13 09:52
680-88980-11	CV0668B-CS	Solid	04/02/13 08:48	04/04/13 09:52
680-88980-12	CV0717A-CS	Solid	04/02/13 10:20	04/04/13 09:52
680-88980-13	CV0717B-CS	Solid	04/02/13 10:26	04/04/13 09:52
680-88980-14	HP0167A-CS-SP	Solid	04/02/13 12:35	04/04/13 09:52
680-88980-15	HP0167B-CS-SP	Solid	04/02/13 12:45	04/04/13 09:52
680-88980-16	CV0954A-CS-SP	Solid	04/02/13 13:45	04/04/13 09:52
680-88980-17	CV0954B-CS-SP	Solid	04/02/13 13:55	04/04/13 09:52
680-88980-18	CV0098A-CS	Solid	04/02/13 13:50	04/04/13 09:52
680-88980-19	CV0135A-CS	Solid	04/02/13 12:15	04/04/13 09:52
680-88980-20	CV0135B-CS	Solid	04/02/13 12:20	04/04/13 09:52

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0668A-CS 680-88980-9	RL	CV0668A-CSD 680-88980-10	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Anthracene		13	19	11	µg/kg	60	NA	19	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene		12	72	10	µg/kg	55	NA	72	22	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	13 J	16	56	13	µg/kg	72.5	NA	43	29	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	27	19	85	16	µg/kg	87.5	NA	58	35	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	11 J	30	49	26	µg/kg	140	NA	38	56	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	7.2 J	12	53	10	µg/kg	55	NA	45.8	22	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	21	14	89	12	µg/kg	65	NA	68	26	J/UJ-flag, absolute difference > 2x Avg RL
Dibenzo(a,h)anthracene	6.7 J	30	17 J	26	µg/kg	140	NA	10.3	56	None, absolute difference ≤ 2x Avg RL
Fluoranthene	32	30	120	26	µg/kg	140	NA	88	56	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene		30	7.5 J	26	µg/kg	140	NA	7.5	56	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene		30	49	26	µg/kg	140	NA	49	56	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	16 J	61	50 J	52	µg/kg	282.5	NA	34	113	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene		61	40 J	52	µg/kg	282.5	NA	40	113	None, absolute difference ≤ 2x Avg RL
Naphthalene	15 J	61	56	52	µg/kg	282.5	NA	41	113	None, absolute difference ≤ 2x Avg RL
Phenanthrene	21	12	75	10	µg/kg	55	NA	54	22	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	20 J	30	82	26	µg/kg	140	NA	62	56	J/UJ-flag, absolute difference > 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Job ID: 680-88980-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-1

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 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler was delivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19) and CV0135B-CS (680-88980-20) 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 04/10/2013 and 04/11/2013.

Samples HP0176B-CS-SP (680-88980-2)[4X] and CV0098A-CS (680-88980-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene exceeded the rpd limit for the MSD of sample CV0666B-CS (680-88980-8) in batch 660-136309.

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: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0176A-CS-SP

Lab Sample ID: 680-88980-1

Date Collected: 04/02/13 10:00

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 51.6

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 09:40	04/10/13 17:35	1
Acenaphthylene	77	U	77	9.6	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Anthracene	16	U	16	8.1	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Benzo[a]anthracene	15	U	15	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Benzo[a]pyrene	25	J	20	10	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Benzo[b]fluoranthene	28	J	23	12	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Benzo[g,h,i]perylene	18	J	38	8.4	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Benzo[k]fluoranthene	16	J	15	6.9	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Chrysene	20	J	17	8.6	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Dibenz(a,h)anthracene	38	U	38	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Fluoranthene	26	J	38	7.7	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Fluorene	38	U	38	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Indeno[1,2,3-cd]pyrene	38	U	38	14	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
1-Methylnaphthalene	10	J	77	8.4	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
2-Methylnaphthalene	23	J	77	14	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Naphthalene	26	J	77	8.4	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Phenanthrene	20	J	15	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Pyrene	26	J	38	7.1	ug/Kg	☆	04/09/13 09:40	04/10/13 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/09/13 09:40	04/10/13 17:35	1

Client Sample ID: HP0176B-CS-SP

Lab Sample ID: 680-88980-2

Date Collected: 04/02/13 10:10

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	650	U	650	130	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Acenaphthylene	260	U	260	33	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Anthracene	55	U	55	27	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Benzo[a]anthracene	52	U	52	25	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Benzo[a]pyrene	100	J	68	34	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Benzo[b]fluoranthene	95	J	80	40	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Benzo[g,h,i]perylene	57	J	130	29	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Benzo[k]fluoranthene	55	J	52	24	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Chrysene	80	J	59	29	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Dibenz(a,h)anthracene	37	J	130	27	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Fluoranthene	140	J	130	26	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Fluorene	130	U	130	27	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Indeno[1,2,3-cd]pyrene	130	U	130	46	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
1-Methylnaphthalene	260	U	260	29	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
2-Methylnaphthalene	260	U	260	46	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Naphthalene	35	J	260	29	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Phenanthrene	120	J	52	25	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Pyrene	130	J	130	24	ug/Kg	☆	04/09/13 09:40	04/10/13 17:53	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	115		30 - 130				04/09/13 09:40	04/10/13 17:53	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0257A-CS-SP

Lab Sample ID: 680-88980-3

Date Collected: 04/02/13 09:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 58.7

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 09:40	04/10/13 18:11	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Anthracene	14	U	14	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Benzo[a]anthracene	14	U	14	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Benzo[a]pyrene	18	U	18	8.9	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Benzo[b]fluoranthene	12	J	21	10	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Benzo[g,h,i]perylene	34	U	34	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Benzo[k]fluoranthene	14	U	14	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Chrysene	15	U	15	7.7	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Dibenz(a,h)anthracene	34	U	34	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Fluoranthene	34	U	34	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Fluorene	34	U	34	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Indeno[1,2,3-cd]pyrene	34	U	34	12	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
1-Methylnaphthalene	68	U	68	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
2-Methylnaphthalene	68	U	68	12	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Naphthalene	11	J	68	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Phenanthrene	14	U	14	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Pyrene	34	U	34	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130				04/09/13 09:40	04/10/13 18:11	1

Client Sample ID: HP0257B-CS-SP

Lab Sample ID: 680-88980-4

Date Collected: 04/02/13 09:30

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 62.3

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	32	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Acenaphthylene	65	U	65	8.1	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Anthracene	14	U	14	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Benzo[a]anthracene	13	U	13	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Benzo[a]pyrene	12	J	17	8.4	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Benzo[b]fluoranthene	15	J	20	9.8	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Benzo[g,h,i]perylene	32	U	32	7.1	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Benzo[k]fluoranthene	13	U	13	5.8	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Chrysene	7.5	J	15	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Fluoranthene	6.9	J	32	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Fluorene	32	U	32	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
1-Methylnaphthalene	12	J	65	7.1	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
2-Methylnaphthalene	14	J	65	11	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Naphthalene	12	J	65	7.1	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Phenanthrene	8.5	J	13	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Pyrene	32	U	32	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130				04/09/13 09:40	04/10/13 18:30	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0380A-CS

Lab Sample ID: 680-88980-5

Date Collected: 04/02/13 09:40

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	UJ	160	33	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Acenaphthylene	66	U	66	8.2	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Anthracene	14	U	14	6.9	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Benzo[a]pyrene	25	J	17	8.6	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Benzo[b]fluoranthene	34	J	20	10	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Benzo[g,h,i]perylene	15	J	33	7.2	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Benzo[k]fluoranthene	20	J	13	5.9	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Chrysene	38	J	15	7.4	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Dibenz(a,h)anthracene	33	UJ	33	6.7	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Fluoranthene	55	J	33	6.6	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Fluorene	33	UJ	33	6.7	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Indeno[1,2,3-cd]pyrene	19	J	33	12	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
1-Methylnaphthalene	29	J	66	7.2	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
2-Methylnaphthalene	35	J	66	12	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Naphthalene	43	J	66	7.2	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Phenanthrene	46	J	13	6.4	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1
Pyrene	44	J	33	6.1	ug/Kg	✱	04/09/13 09:40	04/10/13 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	04/09/13 09:40	04/10/13 18:48	1

Client Sample ID: CV0380B-CS

Lab Sample ID: 680-88980-6

Date Collected: 04/02/13 09:48

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 57.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	UJ	180	35	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Acenaphthylene	70	U	70	8.8	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Anthracene	15	U	15	7.4	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Benzo[a]anthracene	14	U	14	6.9	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Benzo[a]pyrene	15	J	18	9.1	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Benzo[b]fluoranthene	13	J	21	11	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Benzo[g,h,i]perylene	35	UJ	35	7.7	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Benzo[k]fluoranthene	16	J	14	6.3	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Chrysene	23	J	16	7.9	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Dibenz(a,h)anthracene	35	UJ	35	7.2	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Fluoranthene	19	J	35	7.0	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Fluorene	35	UJ	35	7.2	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Indeno[1,2,3-cd]pyrene	35	UJ	35	12	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
1-Methylnaphthalene	14	J	70	7.7	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
2-Methylnaphthalene	70	UJ	70	12	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Naphthalene	17	J	70	7.7	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Phenanthrene	19	J	14	6.9	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1
Pyrene	20	J	35	6.5	ug/Kg	✱	04/09/13 09:40	04/10/13 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		30 - 130	04/09/13 09:40	04/10/13 19:06	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0666A-CS

Lab Sample ID: 680-88980-7

Date Collected: 04/02/13 09:10

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 54.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	UJ	180	36	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Acenaphthylene	72	U	72	9.0	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Anthracene	15	U	15	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Benzo[a]anthracene	14	U	14	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Benzo[a]pyrene	15	J	19	9.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Benzo[b]fluoranthene	30	J	22	11	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Benzo[g,h,i]perylene	26	J	36	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Benzo[k]fluoranthene	7.9	J	14	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Chrysene	23	J	16	8.1	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Dibenz(a,h)anthracene	36	UJ	36	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Fluoranthene	33	J	36	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Fluorene	36	UJ	36	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Indeno[1,2,3-cd]pyrene	36	UJ	36	13	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
1-Methylnaphthalene	22	J	72	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
2-Methylnaphthalene	27	J	72	13	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Naphthalene	24	J	72	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Phenanthrene	35	J	14	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1
Pyrene	37	J	36	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	58		30 - 130	04/09/13 09:40	04/10/13 19:25	1

Client Sample ID: CV0666B-CS

Lab Sample ID: 680-88980-8

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190	UJ	190	37	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Acenaphthylene	46	J	74	9.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Anthracene	43	J	16	7.8	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Benzo[a]anthracene	210	J	15	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Benzo[a]pyrene	160	J	19	9.7	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Benzo[b]fluoranthene	260	J	23	11	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Benzo[g,h,i]perylene	110	J	37	8.2	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Benzo[k]fluoranthene	160	J	15	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Chrysene	160	J	17	8.4	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Dibenz(a,h)anthracene	46	J	37	7.6	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Fluoranthene	300	J	37	7.4	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Fluorene	37	UJ	37	7.6	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Indeno[1,2,3-cd]pyrene	89	J	37	13	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
1-Methylnaphthalene	21	J	74	8.2	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
2-Methylnaphthalene	19	J	74	13	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Naphthalene	33	J	74	8.2	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Phenanthrene	92	J	15	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1
Pyrene	300	J	37	6.9	ug/Kg	☆	04/09/13 09:40	04/10/13 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130	04/09/13 09:40	04/10/13 19:43	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0668A-CS

Lab Sample ID: 680-88980-9

Date Collected: 04/02/13 08:40

Matrix: Solid

Date Received: 04/04/13 09:52

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	150	UJ	150	30	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Acenaphthylene	61	U	61	7.6	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Anthracene	13	U	13	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Benzo[a]anthracene	12	U	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Benzo[a]pyrene	13	J	16	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Benzo[b]fluoranthene	27	J	19	9.3	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Benzo[g,h,i]perylene	11	J	30	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Benzo[k]fluoranthene	7.2	J	12	5.5	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Chrysene	21	J	14	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Dibenz(a,h)anthracene	6.7	J	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Fluoranthene	32	J	30	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Fluorene	30	UJ	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Indeno[1,2,3-cd]pyrene	30	UJ	30	11	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
1-Methylnaphthalene	16	J	61	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
2-Methylnaphthalene	61	UJ	61	11	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Naphthalene	15	J	61	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Phenanthrene	21	J	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1
Pyrene	20	J	30	5.6	ug/Kg	☆	04/09/13 09:40	04/10/13 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130	04/09/13 09:40	04/10/13 20:38	1

Client Sample ID: CV0668A-CSD

Lab Sample ID: 680-88980-10

Date Collected: 04/02/13 08:42

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J UJ	130	26	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Acenaphthylene	52	J UJ	52	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Anthracene	19	J	11	5.4	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Benzo[a]anthracene	72	J	10	5.1	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Benzo[a]pyrene	56	J	13	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Benzo[b]fluoranthene	85	J	16	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Benzo[g,h,i]perylene	49	J	26	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Benzo[k]fluoranthene	53	J	10	4.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Chrysene	89	J	12	5.8	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Dibenz(a,h)anthracene	17	J	26	5.3	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Fluoranthene	120	J	26	5.2	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Fluorene	7.5	J	26	5.3	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Indeno[1,2,3-cd]pyrene	49	J	26	9.2	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
1-Methylnaphthalene	50	J	52	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
2-Methylnaphthalene	40	J	52	9.2	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Naphthalene	56	J	52	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Phenanthrene	75	J	10	5.1	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1
Pyrene	82	J	26	4.8	ug/Kg	☆	04/09/13 09:40	04/10/13 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	52		30 - 130	04/09/13 09:40	04/10/13 20:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0668B-CS

Lab Sample ID: 680-88980-11

Date Collected: 04/02/13 08:48

Matrix: Solid

Date Received: 04/04/13 09:52

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	UJ	170	33	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Acenaphthylene	9.5	J	66	8.3	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Anthracene	14	UJ	14	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Benzo[a]anthracene	13	UJ	13	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Benzo[a]pyrene	18	J	17	8.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Benzo[b]fluoranthene	34	J	20	10	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Benzo[g,h,i]perylene	12	J	33	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Benzo[k]fluoranthene	13	J	13	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Chrysene	19	J	15	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Dibenz(a,h)anthracene	11	J	33	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Fluoranthene	27	J	33	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Fluorene	33	UJ	33	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Indeno[1,2,3-cd]pyrene	13	J	33	12	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
1-Methylnaphthalene	11	J	66	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
2-Methylnaphthalene	24	J	66	12	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Naphthalene	26	J	66	7.3	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Phenanthrene	24	J	13	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1
Pyrene	17	J	33	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/09/13 09:40	04/10/13 21:15	1

Client Sample ID: CV0717A-CS

Lab Sample ID: 680-88980-12

Date Collected: 04/02/13 10:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 61.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	UJ	160	33	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Acenaphthylene	65	U	65	8.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Anthracene	14	U	14	6.9	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Benzo[a]pyrene	24	J	17	8.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Benzo[b]fluoranthene	40	J	20	10	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Benzo[g,h,i]perylene	21	J	33	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Benzo[k]fluoranthene	18	J	13	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Chrysene	28	J	15	7.4	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Dibenz(a,h)anthracene	33	UJ	33	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Fluoranthene	46	J	33	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Fluorene	33	UJ	33	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Indeno[1,2,3-cd]pyrene	22	J	33	12	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
1-Methylnaphthalene	11	J	65	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
2-Methylnaphthalene	16	J	65	12	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Naphthalene	34	J	65	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Phenanthrene	31	J	13	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1
Pyrene	37	J	33	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		30 - 130	04/09/13 09:40	04/10/13 21:33	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0717B-CS

Lab Sample ID: 680-88980-13

Date Collected: 04/02/13 10:26

Matrix: Solid

Date Received: 04/04/13 09:52

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	150	UJ	150	30	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Acenaphthylene	14	J	60	7.5	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Anthracene	21	J	13	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Benzo[a]anthracene	86	J	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Benzo[a]pyrene	70	J	16	7.8	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Benzo[b]fluoranthene	100	J	18	9.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Benzo[g,h,i]perylene	34	J	30	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Benzo[k]fluoranthene	81	J	12	5.4	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Chrysene	100	J	14	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Dibenz(a,h)anthracene	25	J	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Fluoranthene	63	J	30	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Fluorene	30	UJ	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Indeno[1,2,3-cd]pyrene	29	J	30	11	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
1-Methylnaphthalene	14	J	60	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
2-Methylnaphthalene	14	J	60	11	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Naphthalene	35	J	60	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Phenanthrene	19	J	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Pyrene	83	J	30	5.6	ug/Kg	☆	04/09/13 09:40	04/10/13 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				04/09/13 09:40	04/10/13 21:52	1

Client Sample ID: HP0167A-CS-SP

Lab Sample ID: 680-88980-14

Date Collected: 04/02/13 12:35

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 65.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	UJ	150	30	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Acenaphthylene	60	U	60	7.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Anthracene	13	U	13	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Benzo[a]anthracene	12	U	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Benzo[a]pyrene	16	J	16	7.9	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Benzo[b]fluoranthene	21	J	18	9.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Benzo[g,h,i]perylene	17	J	30	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Benzo[k]fluoranthene	8.0	J	12	5.4	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Chrysene	16	J	14	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Dibenz(a,h)anthracene	30	UJ	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Fluoranthene	17	J	30	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Fluorene	30	UJ	30	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Indeno[1,2,3-cd]pyrene	30	UJ	30	11	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
1-Methylnaphthalene	7.6	J	60	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
2-Methylnaphthalene	14	J	60	11	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Naphthalene	24	J	60	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Phenanthrene	16	J	12	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Pyrene	21	J	30	5.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				04/09/13 09:40	04/10/13 22:10	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0167B-CS-SP

Lab Sample ID: 680-88980-15

Date Collected: 04/02/13 12:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	UJ	150	31	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Acenaphthylene	62	U	62	7.7	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Anthracene	13	U	13	6.5	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Benzo[a]anthracene	12	U	12	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Benzo[a]pyrene	11	J	16	8.0	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Benzo[b]fluoranthene	13	J	19	9.4	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Benzo[g,h,i]perylene	31	UJ	31	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Benzo[k]fluoranthene	9.6	J	12	5.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Chrysene	14	UJ	14	7.0	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Dibenz(a,h)anthracene	31	UJ	31	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Fluoranthene	13	J	31	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Fluorene	31	UJ	31	6.3	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Indeno[1,2,3-cd]pyrene	31	UJ	31	11	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
1-Methylnaphthalene	62	UJ	62	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
2-Methylnaphthalene	29	J	62	11	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Naphthalene	15	J	62	6.8	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Phenanthrene	6.8	J	12	6.0	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1
Pyrene	14	J	31	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	59		30 - 130	04/09/13 09:40	04/10/13 22:29	1

Client Sample ID: CV0954A-CS-SP

Lab Sample ID: 680-88980-16

Date Collected: 04/02/13 13:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	UJ	160	33	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Anthracene	14	U	14	6.9	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Benzo[a]pyrene	24	J	17	8.5	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Benzo[b]fluoranthene	38	J	20	10	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Benzo[g,h,i]perylene	23	J	33	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Benzo[k]fluoranthene	25	J	13	5.9	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Chrysene	34	J	15	7.4	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Dibenz(a,h)anthracene	33	UJ	33	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Fluoranthene	27	J	33	6.6	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Fluorene	33	UJ	33	6.7	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Indeno[1,2,3-cd]pyrene	14	J	33	12	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
1-Methylnaphthalene	10	J	66	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
2-Methylnaphthalene	14	J	66	12	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Naphthalene	66	UJ	66	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Phenanthrene	47	J	13	6.4	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1
Pyrene	53	J	33	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130	04/09/13 09:40	04/10/13 22:47	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0954B-CS-SP

Lab Sample ID: 680-88980-17

Date Collected: 04/02/13 13:55

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 62.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	J	160	32	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Acenaphthylene	64	J	64	8.0	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Anthracene	13	J	13	6.7	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Benzo[a]anthracene	13	J	13	6.2	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Benzo[a]pyrene	12	J	17	8.3	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Benzo[b]fluoranthene	19	J	20	9.8	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Benzo[g,h,i]perylene	32	J	32	7.0	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Benzo[k]fluoranthene	13	J	13	5.8	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Chrysene	10	J	14	7.2	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Dibenz(a,h)anthracene	32	J	32	6.6	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Fluoranthene	23	J	32	6.4	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Fluorene	32	J	32	6.6	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Indeno[1,2,3-cd]pyrene	32	J	32	11	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
1-Methylnaphthalene	64	J	64	7.0	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
2-Methylnaphthalene	64	J	64	11	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Naphthalene	10	J	64	7.0	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Phenanthrene	11	J	13	6.2	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1
Pyrene	24	J	32	5.9	ug/Kg	*	04/09/13 09:40	04/10/13 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		30 - 130	04/09/13 09:40	04/10/13 23:05	1

Client Sample ID: CV0098A-CS

Lab Sample ID: 680-88980-18

Date Collected: 04/02/13 13:50

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	J	490	98	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Acenaphthylene	67	J	200	25	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Anthracene	130	J	41	21	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Benzo[a]anthracene	570	J	39	19	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Benzo[a]pyrene	310	J	51	26	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Benzo[b]fluoranthene	910	J	60	30	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Benzo[g,h,i]perylene	420	J	98	22	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Benzo[k]fluoranthene	430	J	39	18	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Chrysene	660	J	44	22	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Dibenz(a,h)anthracene	120	J	98	20	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Fluoranthene	710	J	98	20	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Fluorene	29	J	98	20	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Indeno[1,2,3-cd]pyrene	220	J	98	35	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
1-Methylnaphthalene	37	J	200	22	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
2-Methylnaphthalene	84	J	200	35	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Naphthalene	59	J	200	22	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Phenanthrene	130	J	39	19	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4
Pyrene	1500	J	98	18	ug/Kg	*	04/09/13 09:40	04/10/13 23:24	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		30 - 130	04/09/13 09:40	04/10/13 23:24	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0135A-CS

Lab Sample ID: 680-88980-19

Date Collected: 04/02/13 12:15

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	UJ	140	28	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Acenaphthylene	7.0	J	55	6.9	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Anthracene	7.4	J	12	5.8	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Benzo[a]anthracene	57	J	11	5.4	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Benzo[a]pyrene	29	J	14	7.2	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Benzo[b]fluoranthene	39	J	17	8.5	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Benzo[g,h,i]perylene	24	J	28	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Benzo[k]fluoranthene	11	J	11	5.0	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Chrysene	35	J	12	6.2	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Dibenz(a,h)anthracene	8.6	J	28	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Fluoranthene	51	J	28	5.5	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Fluorene	28	UJ	28	5.7	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Indeno[1,2,3-cd]pyrene	21	J	28	9.8	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
1-Methylnaphthalene	55	UJ	55	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
2-Methylnaphthalene	11	J	55	9.8	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Naphthalene	12	J	55	6.1	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Phenanthrene	33	J	11	5.4	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1
Pyrene	53	J	28	5.1	ug/Kg	☆	04/09/13 09:40	04/10/13 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	45		30 - 130	04/09/13 09:40	04/10/13 23:42	1

Client Sample ID: CV0135B-CS

Lab Sample ID: 680-88980-20

Date Collected: 04/02/13 12:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	UJ	160	31	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Acenaphthylene	63	UJ	63	7.8	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Anthracene	6.6	J	13	6.6	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Benzo[a]anthracene	31	J	13	6.1	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Benzo[a]pyrene	23	J	16	8.2	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Benzo[b]fluoranthene	38	J	19	9.6	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Benzo[g,h,i]perylene	20	J	31	6.9	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Benzo[k]fluoranthene	15	J	13	5.6	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Chrysene	22	J	14	7.1	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Dibenz(a,h)anthracene	31	UJ	31	6.4	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Fluoranthene	44	J	31	6.3	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Fluorene	31	UJ	31	6.4	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Indeno[1,2,3-cd]pyrene	18	J	31	11	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
1-Methylnaphthalene	8.5	J	63	6.9	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
2-Methylnaphthalene	63	UJ	63	11	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Naphthalene	11	J	63	6.9	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Phenanthrene	26	J	13	6.1	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1
Pyrene	35	J	31	5.8	ug/Kg	☆	04/09/13 09:40	04/11/13 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		30 - 130	04/09/13 09:40	04/11/13 14:44	1

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-88980-1

SDG Number: 68088980-1

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
4/12/2013 3:36 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/12/2013

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-1

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 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler was delivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19) and CV0135B-CS (680-88980-20) 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 04/10/2013 and 04/11/2013.

Samples HP0176B-CS-SP (680-88980-2)[4X] and CV0098A-CS (680-88980-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene exceeded the rpd limit for the MSD of sample CV0666B-CS (680-88980-8) in batch 660-136309.

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: 680-88980-1

Sdg Number: 68088980-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88980-1	HP0176A-CS-SP	Solid	04/02/2013 1000	04/04/2013 0952
680-88980-2	HP0176B-CS-SP	Solid	04/02/2013 1010	04/04/2013 0952
680-88980-3	HP0257A-CS-SP	Solid	04/02/2013 0920	04/04/2013 0952
680-88980-4	HP0257B-CS-SP	Solid	04/02/2013 0930	04/04/2013 0952
680-88980-5	CV0380A-CS	Solid	04/02/2013 0940	04/04/2013 0952
680-88980-6	CV0380B-CS	Solid	04/02/2013 0948	04/04/2013 0952
680-88980-7	CV0666A-CS	Solid	04/02/2013 0910	04/04/2013 0952
680-88980-8	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-8MS	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-8MSD	CV0666B-CS	Solid	04/02/2013 0917	04/04/2013 0952
680-88980-9	CV0668A-CS	Solid	04/02/2013 0840	04/04/2013 0952
680-88980-10	CV0668A-CSD	Solid	04/02/2013 0842	04/04/2013 0952
680-88980-11	CV0668B-CS	Solid	04/02/2013 0848	04/04/2013 0952
680-88980-12	CV0717A-CS	Solid	04/02/2013 1020	04/04/2013 0952
680-88980-13	CV0717B-CS	Solid	04/02/2013 1026	04/04/2013 0952
680-88980-14	HP0167A-CS-SP	Solid	04/02/2013 1235	04/04/2013 0952
680-88980-15	HP0167B-CS-SP	Solid	04/02/2013 1245	04/04/2013 0952
680-88980-16	CV0954A-CS-SP	Solid	04/02/2013 1345	04/04/2013 0952
680-88980-17	CV0954B-CS-SP	Solid	04/02/2013 1355	04/04/2013 0952
680-88980-18	CV0098A-CS	Solid	04/02/2013 1350	04/04/2013 0952
680-88980-19	CV0135A-CS	Solid	04/02/2013 1215	04/04/2013 0952
680-88980-20	CV0135B-CS	Solid	04/02/2013 1220	04/04/2013 0952

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

Sdg Number: 68088980-1

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: 680-88980-1

Sdg Number: 68088980-1

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: 680-88980-1

Sdg Number: 68088980-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

Sdg Number: 68088980-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136250					
LCS 660-136250/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136250/1-A	Method Blank	T	Solid	3546	
680-88980-1	HP0176A-CS-SP	T	Solid	3546	
680-88980-2	HP0176B-CS-SP	T	Solid	3546	
680-88980-3	HP0257A-CS-SP	T	Solid	3546	
680-88980-4	HP0257B-CS-SP	T	Solid	3546	
680-88980-5	CV0380A-CS	T	Solid	3546	
680-88980-6	CV0380B-CS	T	Solid	3546	
680-88980-7	CV0666A-CS	T	Solid	3546	
680-88980-8	CV0666B-CS	T	Solid	3546	
680-88980-8MS	Matrix Spike	T	Solid	3546	
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88980-9	CV0668A-CS	T	Solid	3546	
680-88980-10	CV0668A-CSD	T	Solid	3546	
680-88980-11	CV0668B-CS	T	Solid	3546	
680-88980-12	CV0717A-CS	T	Solid	3546	
680-88980-13	CV0717B-CS	T	Solid	3546	
680-88980-14	HP0167A-CS-SP	T	Solid	3546	
680-88980-15	HP0167B-CS-SP	T	Solid	3546	
680-88980-16	CV0954A-CS-SP	T	Solid	3546	
680-88980-17	CV0954B-CS-SP	T	Solid	3546	
680-88980-18	CV0098A-CS	T	Solid	3546	
680-88980-19	CV0135A-CS	T	Solid	3546	
680-88980-20	CV0135B-CS	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

Sdg Number: 68088980-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136309					
LCS 660-136250/2-A	Lab Control Sample	T	Solid	8270C LL	660-136250
MB 660-136250/1-A	Method Blank	T	Solid	8270C LL	660-136250
680-88980-1	HP0176A-CS-SP	T	Solid	8270C LL	660-136250
680-88980-2	HP0176B-CS-SP	T	Solid	8270C LL	660-136250
680-88980-3	HP0257A-CS-SP	T	Solid	8270C LL	660-136250
680-88980-4	HP0257B-CS-SP	T	Solid	8270C LL	660-136250
680-88980-5	CV0380A-CS	T	Solid	8270C LL	660-136250
680-88980-6	CV0380B-CS	T	Solid	8270C LL	660-136250
680-88980-7	CV0666A-CS	T	Solid	8270C LL	660-136250
680-88980-8	CV0666B-CS	T	Solid	8270C LL	660-136250
680-88980-8MS	Matrix Spike	T	Solid	8270C LL	660-136250
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136250
680-88980-9	CV0668A-CS	T	Solid	8270C LL	660-136250
680-88980-10	CV0668A-CSD	T	Solid	8270C LL	660-136250
680-88980-11	CV0668B-CS	T	Solid	8270C LL	660-136250
680-88980-12	CV0717A-CS	T	Solid	8270C LL	660-136250
680-88980-13	CV0717B-CS	T	Solid	8270C LL	660-136250
680-88980-14	HP0167A-CS-SP	T	Solid	8270C LL	660-136250
680-88980-15	HP0167B-CS-SP	T	Solid	8270C LL	660-136250
680-88980-16	CV0954A-CS-SP	T	Solid	8270C LL	660-136250
680-88980-17	CV0954B-CS-SP	T	Solid	8270C LL	660-136250
680-88980-18	CV0098A-CS	T	Solid	8270C LL	660-136250
680-88980-19	CV0135A-CS	T	Solid	8270C LL	660-136250
Analysis Batch:660-136371					
680-88980-20	CV0135B-CS	T	Solid	8270C LL	660-136250

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

Sdg Number: 68088980-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136226					
680-88980-1	HP0176A-CS-SP	T	Solid	Moisture	
680-88980-2	HP0176B-CS-SP	T	Solid	Moisture	
680-88980-3	HP0257A-CS-SP	T	Solid	Moisture	
680-88980-4	HP0257B-CS-SP	T	Solid	Moisture	
680-88980-5	CV0380A-CS	T	Solid	Moisture	
680-88980-6	CV0380B-CS	T	Solid	Moisture	
680-88980-7	CV0666A-CS	T	Solid	Moisture	
680-88980-8	CV0666B-CS	T	Solid	Moisture	
680-88980-8MS	Matrix Spike	T	Solid	Moisture	
680-88980-8MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88980-9	CV0668A-CS	T	Solid	Moisture	
680-88980-10	CV0668A-CSD	T	Solid	Moisture	
680-88980-11	CV0668B-CS	T	Solid	Moisture	
680-88980-12	CV0717A-CS	T	Solid	Moisture	
680-88980-13	CV0717B-CS	T	Solid	Moisture	
680-88980-14	HP0167A-CS-SP	T	Solid	Moisture	
680-88980-15	HP0167B-CS-SP	T	Solid	Moisture	
680-88980-16	CV0954A-CS-SP	T	Solid	Moisture	
680-88980-17	CV0954B-CS-SP	T	Solid	Moisture	
680-88980-18	CV0098A-CS	T	Solid	Moisture	
680-88980-19	CV0135A-CS	T	Solid	Moisture	
680-88980-20	CV0135B-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/5 Client Sample ID: _____Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	04/02/13 15:44

Lab Sample ID: IC 660-136048/6 Client Sample ID: _____Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:45

Lab Sample ID: IC 660-136048/7 Client Sample ID: _____Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:48

Lab Sample ID: IC 660-136048/8 Client Sample ID: _____Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/02/13 15:49

Lab Sample ID: ICIS 660-136048/9 Client Sample ID: _____Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136048Lab Sample ID: IC 660-136048/10 Client Sample ID: _____Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:50

Lab Sample ID: IC 660-136048/11 Client Sample ID: _____Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.02	Split Peak	cantins	04/02/13 15:51

Lab Sample ID: ICV 660-136048/12 Client Sample ID: _____Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.01	Split Peak	cantins	04/02/13 15:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: CCVIS 660-136309/3 Client Sample ID: _____Date Analyzed: 04/10/13 12:10 Lab File ID: 1CD10003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/10/13 12:26

Lab Sample ID: LCS 660-136250/2-A Client Sample ID: _____Date Analyzed: 04/10/13 17:16 Lab File ID: 1CD10016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.94	Split Peak	cantins	04/11/13 13:43

Lab Sample ID: 680-88980-1 Client Sample ID: HP0176A-CS-SPDate Analyzed: 04/10/13 17:35 Lab File ID: 1CD10017.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	04/11/13 13:44
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/11/13 13:45
Benzo[g,h,i]perylene	10.27	Baseline Event	cantins	04/11/13 13:45

Lab Sample ID: 680-88980-2 Client Sample ID: HP0176B-CS-SPDate Analyzed: 04/10/13 17:53 Lab File ID: 1CD10018.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	04/11/13 13:46
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/11/13 13:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: 680-88980-4 Client Sample ID: HP0257B-CS-SPDate Analyzed: 04/10/13 18:30 Lab File ID: 1CD10020.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	04/11/13 13:49

Lab Sample ID: 680-88980-5 Client Sample ID: CV0380A-CSDate Analyzed: 04/10/13 18:48 Lab File ID: 1CD10021.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	04/11/13 13:54
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/11/13 13:54

Lab Sample ID: 680-88980-6 Client Sample ID: CV0380B-CSDate Analyzed: 04/10/13 19:06 Lab File ID: 1CD10022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	8.75	Baseline Event	cantins	04/11/13 13:57

Lab Sample ID: 680-88980-7 Client Sample ID: CV0666A-CSDate Analyzed: 04/10/13 19:25 Lab File ID: 1CD10023.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	04/11/13 13:59
Benzo[k]fluoranthene	8.49	Analyte Misidentified by the Data System	cantins	04/11/13 13:59
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/11/13 14:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: 680-88980-8 Client Sample ID: CV0666B-CSDate Analyzed: 04/10/13 19:43 Lab File ID: 1CD10024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	9.93	Baseline Event	cantins	04/11/13 14:01
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 14:01

Lab Sample ID: 680-88980-8 MS Client Sample ID: CV0666B-CS MSDate Analyzed: 04/10/13 20:02 Lab File ID: 1CD10025.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 14:01

Lab Sample ID: 680-88980-8 MSD Client Sample ID: CV0666B-CS MSDDate Analyzed: 04/10/13 20:20 Lab File ID: 1CD10026.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 14:02

Lab Sample ID: 680-88980-9 Client Sample ID: CV0668A-CSDate Analyzed: 04/10/13 20:38 Lab File ID: 1CD10027.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	04/11/13 14:07
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/11/13 14:07

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: 680-88980-10 Client Sample ID: CV0668A-CSDDate Analyzed: 04/10/13 20:57 Lab File ID: 1CD10028.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 14:09
Dibenz(a,h)anthracene	9.94	Baseline Event	cantins	04/11/13 14:08

Lab Sample ID: 680-88980-11 Client Sample ID: CV0668B-CSDate Analyzed: 04/10/13 21:15 Lab File ID: 1CD10029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.65	Baseline Event	cantins	04/11/13 14:10
Benzo[b]fluoranthene	8.47	Split Peak	cantins	04/11/13 14:11
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/11/13 14:11
Dibenz(a,h)anthracene	9.95	Baseline Event	cantins	04/11/13 14:11

Lab Sample ID: 680-88980-12 Client Sample ID: CV0717A-CSDate Analyzed: 04/10/13 21:33 Lab File ID: 1CD10030.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	04/11/13 14:13
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/11/13 14:14
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/11/13 14:14

Lab Sample ID: 680-88980-13 Client Sample ID: CV0717B-CSDate Analyzed: 04/10/13 21:52 Lab File ID: 1CD10031.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	04/11/13 14:15
Benzo[k]fluoranthene	8.47	Baseline Event	cantins	04/11/13 14:15
Dibenz(a,h)anthracene	9.96	Baseline Event	cantins	04/11/13 14:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: 680-88980-14 Client Sample ID: HP0167A-CS-SPDate Analyzed: 04/10/13 22:10 Lab File ID: 1CD10032.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	04/11/13 14:18
Benzo[k]fluoranthene	8.49	Baseline Event	cantins	04/11/13 14:19
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/11/13 14:19

Lab Sample ID: 680-88980-15 Client Sample ID: HP0167B-CS-SPDate Analyzed: 04/10/13 22:29 Lab File ID: 1CD10033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	8.75	Baseline Event	cantins	04/11/13 15:29

Lab Sample ID: 680-88980-16 Client Sample ID: CV0954A-CS-SPDate Analyzed: 04/10/13 22:47 Lab File ID: 1CD10034.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	04/11/13 15:30
Benzo[k]fluoranthene	8.48	Baseline Event	cantins	04/11/13 15:31
Benzo[g,h,i]perylene	10.27	Baseline Event	cantins	04/11/13 15:31

Lab Sample ID: 680-88980-18 Client Sample ID: CV0098A-CSDate Analyzed: 04/10/13 23:24 Lab File ID: 1CD10036.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 15:33

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973 Analysis Batch Number: 136309Lab Sample ID: 680-88980-19 Client Sample ID: CV0135A-CSDate Analyzed: 04/10/13 23:42 Lab File ID: 1CD10037.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]pyrene	8.75	Baseline Event	cantins	04/11/13 15:34
Indeno[1,2,3-cd]pyrene	9.93	Split Peak	cantins	04/11/13 15:34
Dibenz(a,h)anthracene	9.95	Baseline Event	cantins	04/11/13 15:34
Benzo[g,h,i]perylene	10.26	Baseline Event	cantins	04/11/13 15:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Instrument 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.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMD5973 Analysis Batch Number: 136164Lab 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.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMD5973 Analysis Batch Number: 136371Lab 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: 680-88980-20 Client Sample ID: CV0135B-CSDate Analyzed: 04/11/13 14:44 Lab File ID: 1DD11013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/11/13 15:41
Dibenz(a,h)anthracene	14.74	Baseline Event	cantins	04/11/13 15:41
Benzo[g,h,i]perylene	15.14	Baseline Event	cantins	04/11/13 15:41

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.: 680-88980-1

SDG No.: 68088980-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
HP0176A-CS-SP	680-88980-1	66
HP0176B-CS-SP	680-88980-2	115
HP0257A-CS-SP	680-88980-3	67
HP0257B-CS-SP	680-88980-4	58
CV0380A-CS	680-88980-5	60
CV0380B-CS	680-88980-6	68
CV0666A-CS	680-88980-7	58
CV0666B-CS	680-88980-8	65
CV0668A-CS	680-88980-9	57
CV0668A-CSD	680-88980-10	52
CV0668B-CS	680-88980-11	62
CV0717A-CS	680-88980-12	72
CV0717B-CS	680-88980-13	67
HP0167A-CS-SP	680-88980-14	67
HP0167B-CS-SP	680-88980-15	59
CV0954A-CS-SP	680-88980-16	66
CV0954B-CS-SP	680-88980-17	77
CV0098A-CS	680-88980-18	81
CV0135A-CS	680-88980-19	45
CV0135B-CS	680-88980-20	75
	MB 660-136250/1-A	64
	LCS 660-136250/2-A	63
CV0666B-CS MS	680-88980-8 MS	63
CV0666B-CS MSD	680-88980-8 MSD	61

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.: 680-88980-1
 SDG No.: 68088980-1
 Matrix: Solid Level: Low Lab File ID: 1CD10016.D
 Lab ID: LCS 660-136250/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	655	410	62	39-130	
Acenaphthylene	655	421	64	38-130	
Anthracene	655	416	63	37-130	
Benzo[a]anthracene	655	442	67	40-130	
Benzo[a]pyrene	655	387	59	49-130	
Benzo[b]fluoranthene	655	369	56	37-130	
Benzo[g,h,i]perylene	655	365	56	32-130	
Benzo[k]fluoranthene	655	480	73	32-130	
Chrysene	655	408	62	41-130	
Dibenz(a,h)anthracene	655	448	68	27-130	
Fluoranthene	655	448	68	40-130	
Fluorene	655	400	61	40-130	
Indeno[1,2,3-cd]pyrene	655	347	53	30-130	
1-Methylnaphthalene	655	448	68	31-130	
2-Methylnaphthalene	655	408	62	33-130	
Naphthalene	655	396	60	36-130	
Phenanthrene	655	418	64	42-130	
Pyrene	655	448	68	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.: 680-88980-1
 SDG No.: 68088980-1
 Matrix: Solid Level: Low Lab File ID: 1CD10025.D
 Lab ID: 680-88980-8 MS Client ID: CV0666B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1240	190 U	801	65	39-130	
Acenaphthylene	1240	46 J	860	66	38-130	
Anthracene	1240	43	864	66	37-130	
Benzo[a]anthracene	1240	210	972	62	40-130	
Benzo[a]pyrene	1240	160	912	61	49-130	
Benzo[b]fluoranthene	1240	260	1090	67	37-130	
Benzo[g,h,i]perylene	1240	110	841	59	32-130	
Benzo[k]fluoranthene	1240	160	1010	68	32-130	
Chrysene	1240	160	922	62	41-130	
Dibenz(a,h)anthracene	1240	46	868	66	27-130	
Fluoranthene	1240	300	1040	60	40-130	
Fluorene	1240	37 U	811	66	40-130	
Indeno[1,2,3-cd]pyrene	1240	89	865	63	30-130	
1-Methylnaphthalene	1240	21 J	775	61	31-130	
2-Methylnaphthalene	1240	19 J	677	53	33-130	
Naphthalene	1240	33 J	753	58	36-130	
Phenanthrene	1240	92	891	65	42-130	
Pyrene	1240	300	1150	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.: 680-88980-1
 SDG No.: 68088980-1
 Matrix: Solid Level: Low Lab File ID: 1CD10026.D
 Lab ID: 680-88980-8 MSD Client ID: CV0666B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1230	583	48	31	40	39-130	
Acenaphthylene	1230	746	57	14	40	38-130	
Anthracene	1230	756	58	13	40	37-130	
Benzo[a]anthracene	1230	1210	82	22	40	40-130	
Benzo[a]pyrene	1230	803	52	13	40	49-130	
Benzo[b]fluoranthene	1230	1150	72	5	40	37-130	
Benzo[g,h,i]perylene	1230	696	48	19	40	32-130	
Benzo[k]fluoranthene	1230	900	60	11	40	32-130	
Chrysene	1230	951	65	3	40	41-130	
Dibenz(a,h)anthracene	1230	762	58	13	40	27-130	
Fluoranthene	1230	1670	112	47	40	40-130	F
Fluorene	1230	690	56	16	40	40-130	
Indeno[1,2,3-cd]pyrene	1230	686	49	23	40	30-130	
1-Methylnaphthalene	1230	698	55	10	40	31-130	
2-Methylnaphthalene	1230	708	56	4	40	33-130	
Naphthalene	1230	754	59	0	40	36-130	
Phenanthrene	1230	720	51	21	40	42-130	
Pyrene	1230	1540	101	29	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.: 680-88980-1
SDG No.: 68088980-1
Lab File ID: 1CD10015.D Lab Sample ID: MB 660-136250/1-A
Matrix: Solid Date Extracted: 04/09/2013 09:40
Instrument ID: BSMC5973 Date Analyzed: 04/10/2013 16:58
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136250/2-A	1CD10016.D	04/10/2013 17:16
HP0176A-CS-SP	680-88980-1	1CD10017.D	04/10/2013 17:35
HP0176B-CS-SP	680-88980-2	1CD10018.D	04/10/2013 17:53
HP0257A-CS-SP	680-88980-3	1CD10019.D	04/10/2013 18:11
HP0257B-CS-SP	680-88980-4	1CD10020.D	04/10/2013 18:30
CV0380A-CS	680-88980-5	1CD10021.D	04/10/2013 18:48
CV0380B-CS	680-88980-6	1CD10022.D	04/10/2013 19:06
CV0666A-CS	680-88980-7	1CD10023.D	04/10/2013 19:25
CV0666B-CS	680-88980-8	1CD10024.D	04/10/2013 19:43
CV0666B-CS MS	680-88980-8 MS	1CD10025.D	04/10/2013 20:02
CV0666B-CS MSD	680-88980-8 MSD	1CD10026.D	04/10/2013 20:20
CV0668A-CS	680-88980-9	1CD10027.D	04/10/2013 20:38
CV0668A-CSD	680-88980-10	1CD10028.D	04/10/2013 20:57
CV0668B-CS	680-88980-11	1CD10029.D	04/10/2013 21:15
CV0717A-CS	680-88980-12	1CD10030.D	04/10/2013 21:33
CV0717B-CS	680-88980-13	1CD10031.D	04/10/2013 21:52
HP0167A-CS-SP	680-88980-14	1CD10032.D	04/10/2013 22:10
HP0167B-CS-SP	680-88980-15	1CD10033.D	04/10/2013 22:29
CV0954A-CS-SP	680-88980-16	1CD10034.D	04/10/2013 22:47
CV0954B-CS-SP	680-88980-17	1CD10035.D	04/10/2013 23:05
CV0098A-CS	680-88980-18	1CD10036.D	04/10/2013 23:24
CV0135A-CS	680-88980-19	1CD10037.D	04/10/2013 23:42
CV0135B-CS	680-88980-20	1DD11013.D	04/11/2013 14:44

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:31
Analysis Batch No.: 136048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.9
68	Less than 2.0 % of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.9) 1
127	10.0 - 80.0 % of mass 198	42.2
197	Less than 2.0 % of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.6
275	10.0 - 60.0 % of mass 198	21.5
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	10.2
442	Greater than 50.0 % of mass 198	56.7
443	15.0 - 24.0 % of mass 442	11.0 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136048/5	1CD02005.D	04/02/2013	13:26
	IC 660-136048/6	1CD02006.D	04/02/2013	13:44
	IC 660-136048/7	1CD02007.D	04/02/2013	14:02
	IC 660-136048/8	1CD02008.D	04/02/2013	14:20
	ICIS 660-136048/9	1CD02009.D	04/02/2013	14:39
	IC 660-136048/10	1CD02010.D	04/02/2013	14:57
	IC 660-136048/11	1CD02011.D	04/02/2013	15:15
	ICV 660-136048/12	1CD02012.D	04/02/2013	15:34

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
Lab File ID: 1CD10002.D DFTPP Injection Date: 04/10/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:53
Analysis Batch No.: 136309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.7
68	Less than 2.0 % of mass 69	0.4 (0.9) 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	46.7
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	19.9
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	12.8
442	Greater than 50.0 % of mass 198	68.7
443	15.0 - 24.0 % of mass 442	12.9 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136309/3	1CD10003.D	04/10/2013	12:10
	MB 660-136250/1-A	1CD10015.D	04/10/2013	16:58
	LCS 660-136250/2-A	1CD10016.D	04/10/2013	17:16
HP0176A-CS-SP	680-88980-1	1CD10017.D	04/10/2013	17:35
HP0176B-CS-SP	680-88980-2	1CD10018.D	04/10/2013	17:53
HP0257A-CS-SP	680-88980-3	1CD10019.D	04/10/2013	18:11
HP0257B-CS-SP	680-88980-4	1CD10020.D	04/10/2013	18:30
CV0380A-CS	680-88980-5	1CD10021.D	04/10/2013	18:48
CV0380B-CS	680-88980-6	1CD10022.D	04/10/2013	19:06
CV0666A-CS	680-88980-7	1CD10023.D	04/10/2013	19:25
CV0666B-CS	680-88980-8	1CD10024.D	04/10/2013	19:43
CV0666B-CS MS	680-88980-8 MS	1CD10025.D	04/10/2013	20:02
CV0666B-CS MSD	680-88980-8 MSD	1CD10026.D	04/10/2013	20:20
CV0668A-CS	680-88980-9	1CD10027.D	04/10/2013	20:38
CV0668A-CSD	680-88980-10	1CD10028.D	04/10/2013	20:57
CV0668B-CS	680-88980-11	1CD10029.D	04/10/2013	21:15
CV0717A-CS	680-88980-12	1CD10030.D	04/10/2013	21:33
CV0717B-CS	680-88980-13	1CD10031.D	04/10/2013	21:52
HP0167A-CS-SP	680-88980-14	1CD10032.D	04/10/2013	22:10
HP0167B-CS-SP	680-88980-15	1CD10033.D	04/10/2013	22:29
CV0954A-CS-SP	680-88980-16	1CD10034.D	04/10/2013	22:47
CV0954B-CS-SP	680-88980-17	1CD10035.D	04/10/2013	23:05
CV0098A-CS	680-88980-18	1CD10036.D	04/10/2013	23:24

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
Lab File ID: 1CD10002.D DFTPP Injection Date: 04/10/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:53
Analysis Batch No.: 136309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.7
68	Less than 2.0 % of mass 69	0.4 (0.9) 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	46.7
197	Less than 2.0 % of mass 198	1.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	19.9
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	12.8
442	Greater than 50.0 % of mass 198	68.7
443	15.0 - 24.0 % of mass 442	12.9 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CV0135A-CS	680-88980-19	1CD10037.D	04/10/2013	23:42

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
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.: 680-88980-1
SDG No.: 68088980-1
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
CV0135B-CS	680-88980-20	1DD11013.D	04/11/2013	14:44

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	501011	3.71	361349	4.80	702974	5.75	
UPPER LIMIT	1002022	4.21	722698	5.30	1405948	6.25	
LOWER LIMIT	250506	3.21	180675	4.30	351487	5.25	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136048/12		649122	3.71	500935	4.80	955391	5.75

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-88980-1
SDG No.: 68088980-1
Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N
Calibration ID: 2859

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	875378	7.69	942955	8.86		
UPPER LIMIT	1750756	8.19	1885910	9.36		
LOWER LIMIT	437689	7.19	471478	8.36		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136048/12		1249690	7.69	1306409	8.86	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
 SDG No.: 68088980-1
 Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N
 Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		324897	3.68	222702	4.77	427547	5.71
UPPER LIMIT		649794	4.18	445404	5.27	855094	6.21
LOWER LIMIT		162449	3.18	111351	4.27	213774	5.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136250/1-A		387272	3.68	287489	4.77	537552	5.72
LCS 660-136250/2-A		357806	3.68	279078	4.77	538835	5.71
680-88980-1	HP0176A-CS-SP	402852	3.68	286223	4.77	537752	5.71
680-88980-2	HP0176B-CS-SP	381285	3.68	294439	4.77	528707	5.71
680-88980-3	HP0257A-CS-SP	363532	3.68	273961	4.77	526068	5.71
680-88980-4	HP0257B-CS-SP	379095	3.68	269993	4.77	518995	5.71
680-88980-5	CV0380A-CS	373974	3.68	280368	4.77	519640	5.71
680-88980-6	CV0380B-CS	362932	3.68	259595	4.77	503853	5.71
680-88980-7	CV0666A-CS	396528	3.68	300860	4.77	548696	5.71
680-88980-8	CV0666B-CS	366967	3.68	283594	4.77	516014	5.71
680-88980-8 MS	CV0666B-CS MS	382063	3.68	272561	4.77	520052	5.71
680-88980-8 MSD	CV0666B-CS MSD	406678	3.68	290687	4.77	545257	5.71
680-88980-9	CV0668A-CS	401035	3.68	291011	4.77	558674	5.71
680-88980-10	CV0668A-CSD	384805	3.68	281490	4.77	526040	5.71
680-88980-11	CV0668B-CS	372482	3.68	274224	4.77	522790	5.71
680-88980-12	CV0717A-CS	412666	3.68	293237	4.77	529990	5.71
680-88980-13	CV0717B-CS	395100	3.68	276149	4.77	536523	5.71
680-88980-14	HP0167A-CS-SP	408612	3.68	306913	4.77	587875	5.71
680-88980-15	HP0167B-CS-SP	391770	3.68	284049	4.77	518233	5.71
680-88980-16	CV0954A-CS-SP	405921	3.68	293160	4.77	544653	5.71
680-88980-17	CV0954B-CS-SP	389689	3.68	279746	4.77	519661	5.71
680-88980-18	CV0098A-CS	407544	3.68	284156	4.77	539915	5.71
680-88980-19	CV0135A-CS	439820	3.68	303785	4.77	603428	5.71

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-88980-1
 SDG No.: 68088980-1
 Sample No.: CCVIS 660-136309/3 Date Analyzed: 04/10/2013 12:10
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD10003.D Heated Purge: (Y/N) N
 Calibration ID: 2859

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	562910	7.65	541225	8.81		
UPPER LIMIT	1125820	8.15	1082450	9.31		
LOWER LIMIT	281455	7.15	270613	8.31		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136250/1-A		640558	7.66	619768	8.83	
LCS 660-136250/2-A		660161	7.65	608181	8.81	
680-88980-1	HP0176A-CS-SP	652059	7.65	603756	8.81	
680-88980-2	HP0176B-CS-SP	605431	7.65	562822	8.81	
680-88980-3	HP0257A-CS-SP	605160	7.65	577296	8.81	
680-88980-4	HP0257B-CS-SP	576153	7.65	578183	8.80	
680-88980-5	CV0380A-CS	637518	7.65	598987	8.81	
680-88980-6	CV0380B-CS	604353	7.65	578394	8.81	
680-88980-7	CV0666A-CS	608617	7.65	579727	8.80	
680-88980-8	CV0666B-CS	604093	7.65	570606	8.81	
680-88980-8 MS	CV0666B-CS MS	615839	7.65	551005	8.81	
680-88980-8 MSD	CV0666B-CS MSD	639196	7.65	605963	8.81	
680-88980-9	CV0668A-CS	615322	7.65	571657	8.80	
680-88980-10	CV0668A-CSD	613975	7.65	579314	8.80	
680-88980-11	CV0668B-CS	605381	7.65	586219	8.80	
680-88980-12	CV0717A-CS	598802	7.65	568355	8.80	
680-88980-13	CV0717B-CS	614479	7.65	578219	8.80	
680-88980-14	HP0167A-CS-SP	627896	7.65	587693	8.80	
680-88980-15	HP0167B-CS-SP	603128	7.65	563091	8.81	
680-88980-16	CV0954A-CS-SP	590168	7.65	566075	8.80	
680-88980-17	CV0954B-CS-SP	574692	7.65	555359	8.80	
680-88980-18	CV0098A-CS	607250	7.65	542098	8.80	
680-88980-19	CV0135A-CS	620393	7.65	590048	8.80	

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 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.: 680-88980-1
 SDG No.: 68088980-1
 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 = $\pm$ 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.: 680-88980-1
SDG No.: 68088980-1
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 = $\pm$ 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.: 680-88980-1
SDG No.: 68088980-1
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					
680-88980-20	CV0135B-CS		2576799	6.07	1592373	7.75
					2690338	9.01

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

PHN = Phenanthrene-d10

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

RT Limit = $\pm$ 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.: 680-88980-1
SDG No.: 68088980-1
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					
680-88980-20	CV0135B-CS		2672523	11.32	2777167	13.15

CRY = Chrysene-d12

PRY = Perylene-d12

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

RT Limit = $\pm$ 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: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0176A-CS-SP</u>	Lab Sample ID: <u>680-88980-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 10:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.17(g)</u>	Date Analyzed: <u>04/10/2013 17:35</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>48.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190	U	190	38
208-96-8	Acenaphthylene	77	U	77	9.6
120-12-7	Anthracene	16	U	16	8.1
56-55-3	Benzo[a]anthracene	15	U	15	7.5
50-32-8	Benzo[a]pyrene	25		20	10
205-99-2	Benzo[b]fluoranthene	28		23	12
191-24-2	Benzo[g,h,i]perylene	18	J	38	8.4
207-08-9	Benzo[k]fluoranthene	16		15	6.9
218-01-9	Chrysene	20		17	8.6
53-70-3	Dibenz(a,h)anthracene	38	U	38	7.9
206-44-0	Fluoranthene	26	J	38	7.7
86-73-7	Fluorene	38	U	38	7.9
193-39-5	Indeno[1,2,3-cd]pyrene	38	U	38	14
90-12-0	1-Methylnaphthalene	10	J	77	8.4
91-57-6	2-Methylnaphthalene	23	J	77	14
91-20-3	Naphthalene	26	J	77	8.4
85-01-8	Phenanthrene	20		15	7.5
129-00-0	Pyrene	26	J	38	7.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10017.D
Lab Smp Id: 680-88980-A-1-A Client Smp ID: HP0176A-CS-SP
Inj Date : 10-APR-2013 17:35
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-1-a
Misc Info : 680-88980-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	48.438	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		402852	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		286223	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		537752	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		51228	6.56173	838.8778
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		652059	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		603756	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		2126	0.20547	26.2677(Q)
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		1282	0.18201	23.2691
4 1-Methylnaphthalene	142		4.186	4.180	(1.137)		499	0.07873	10.0657(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		2429	0.15509	19.8273(Q)
15 Fluoranthene	202		6.562	6.557	(1.149)		3478	0.20108	25.7069
16 Pyrene	202		6.727	6.727	(0.880)		3644	0.20174	25.7917
19 Chrysene	228		7.662	7.668	(1.002)		2874	0.15468	19.7743
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.961)		3803	0.22281	28.4843(M)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
21 Benzo(k)fluoranthene	252	8.480	8.498	(0.963)	2075	0.12569	16.0690(QMH)
22 Benzo(a)pyrene	252	8.750	8.756	(0.993)	3096	0.19266	24.6304
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	2162	0.13879	17.7429(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: 1CD10017.D

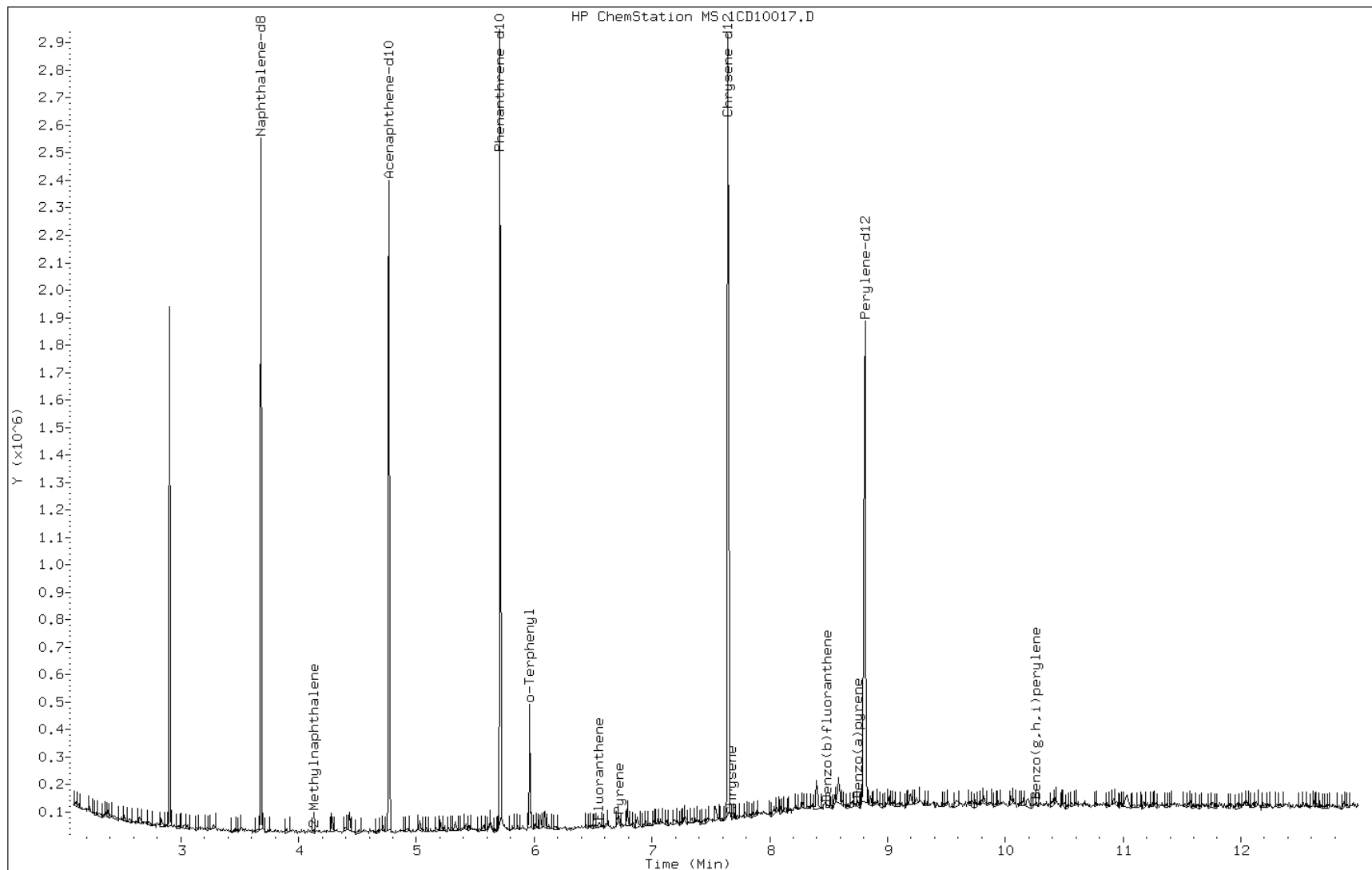
Date: 10-APR-2013 17:35

Client ID: HP0176A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-1-a

Operator: SCC



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

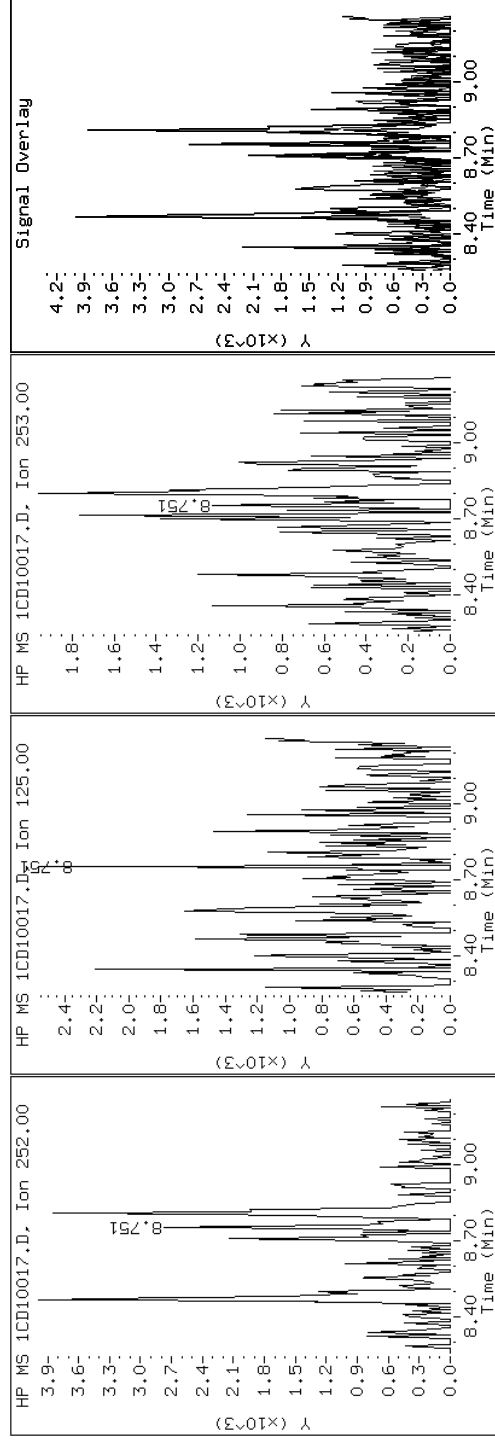
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

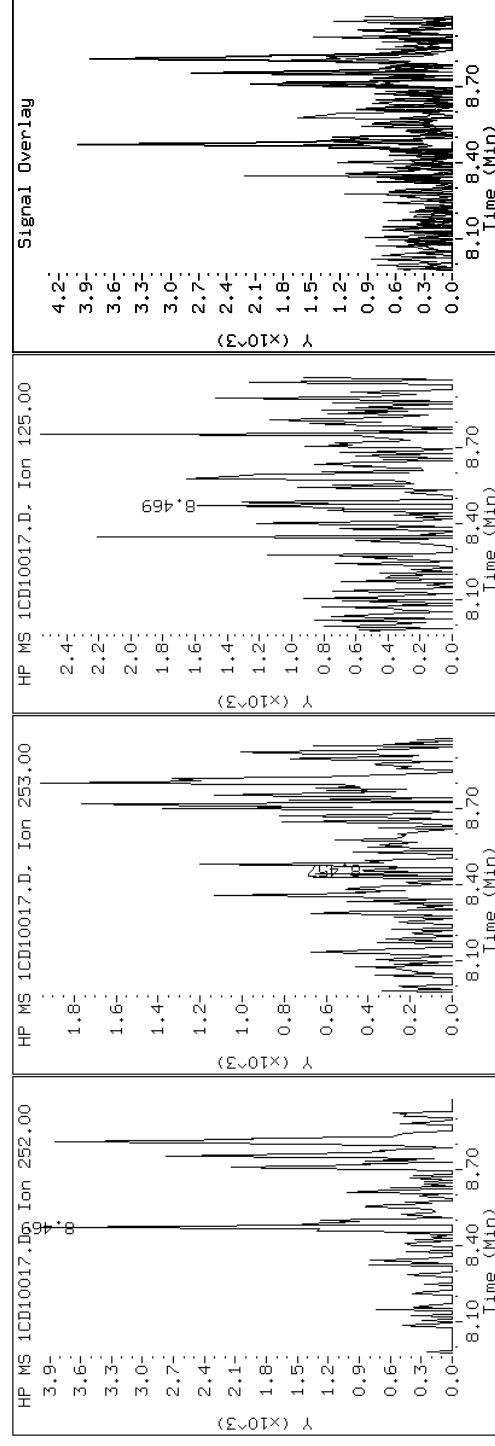
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

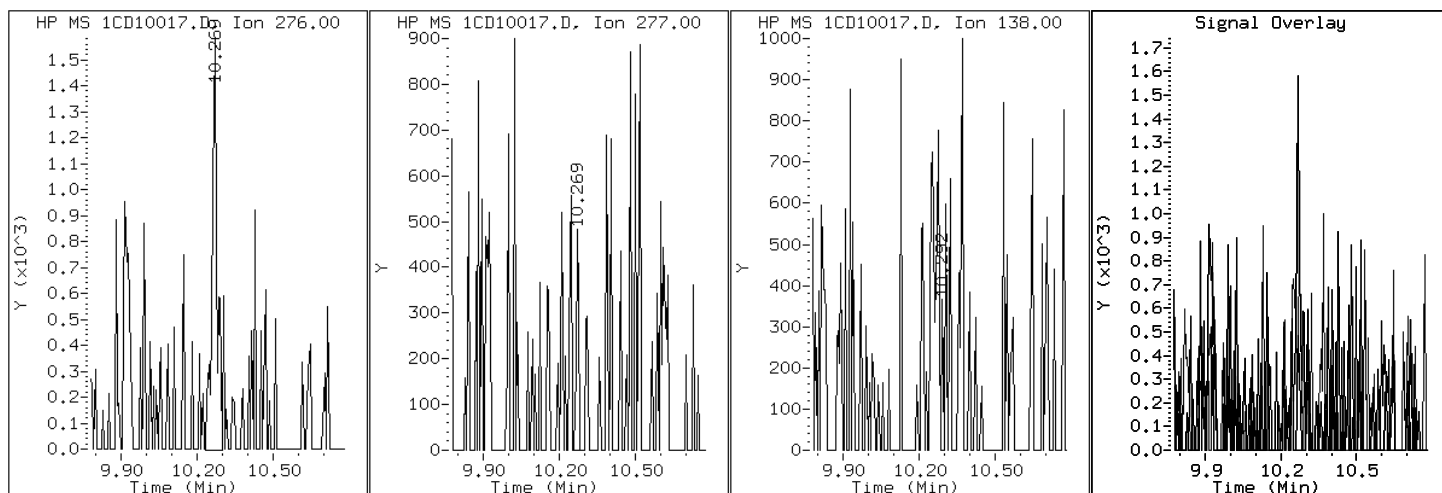
Client ID: HP0176A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

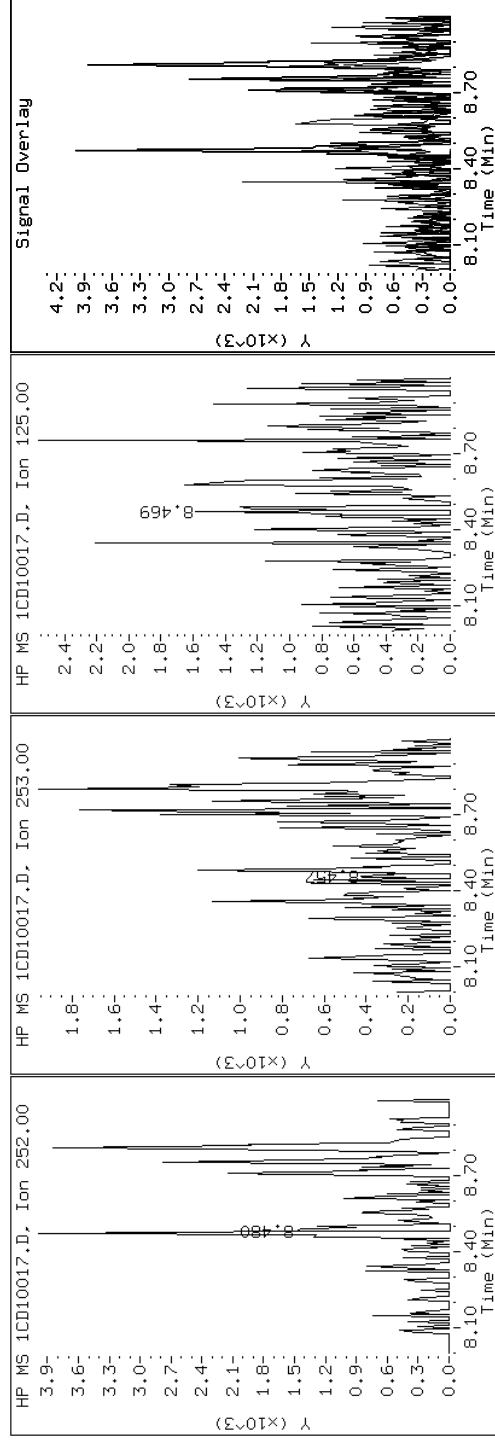
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

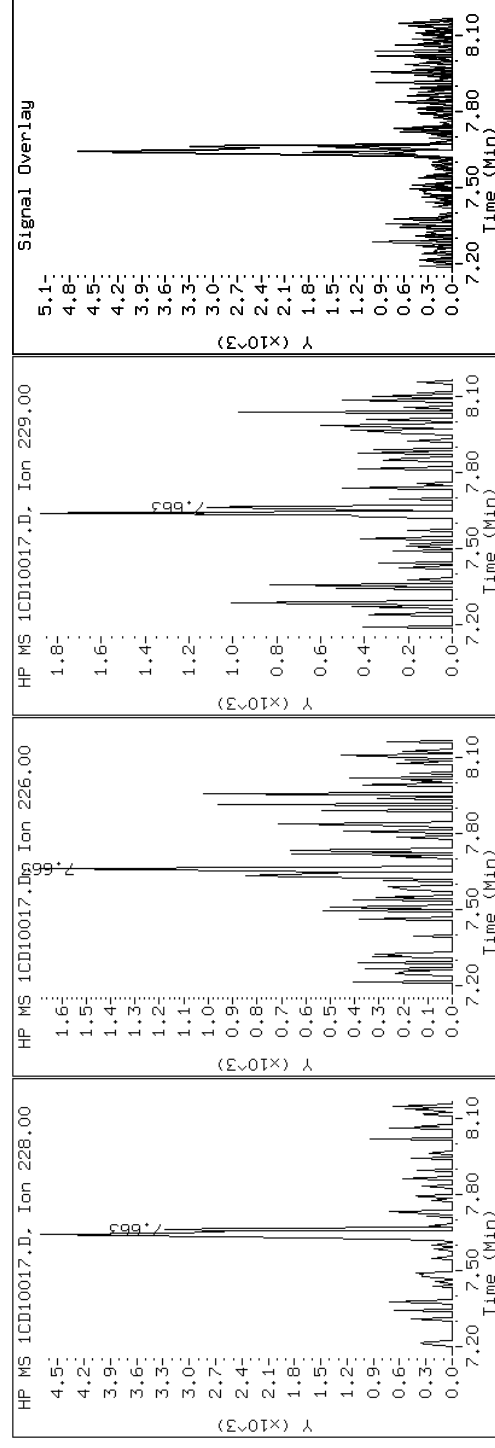
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

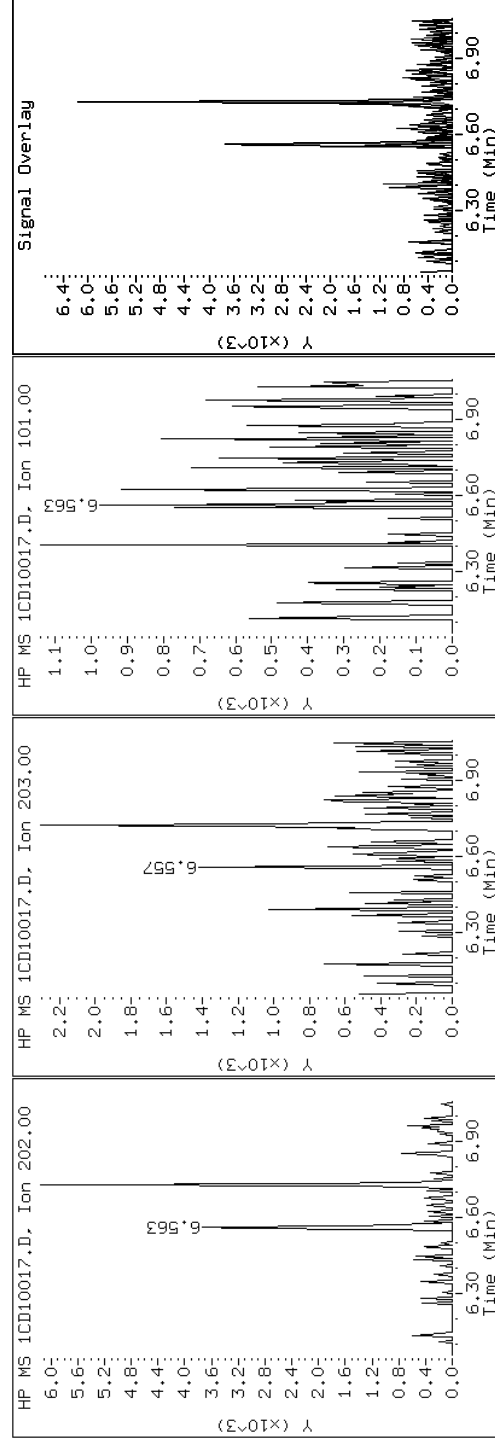
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

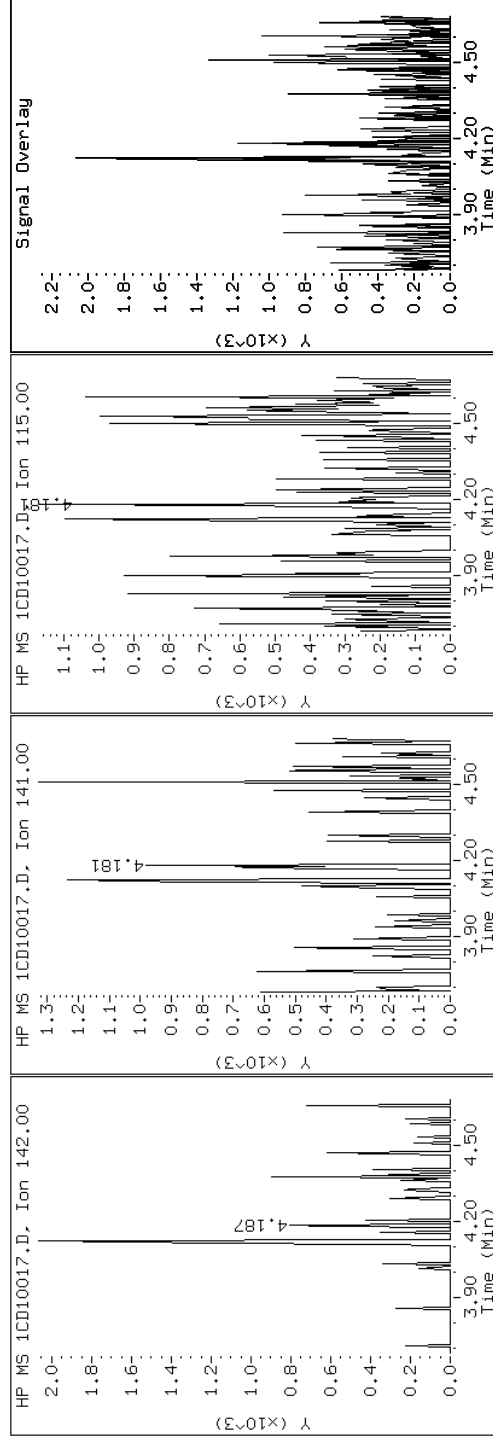
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

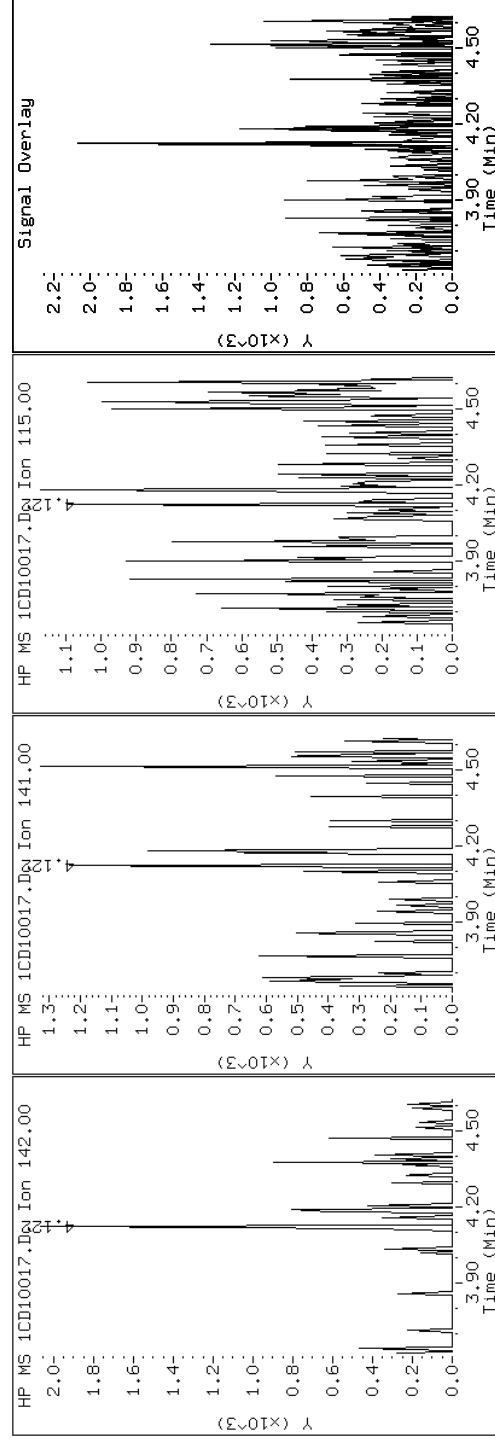
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

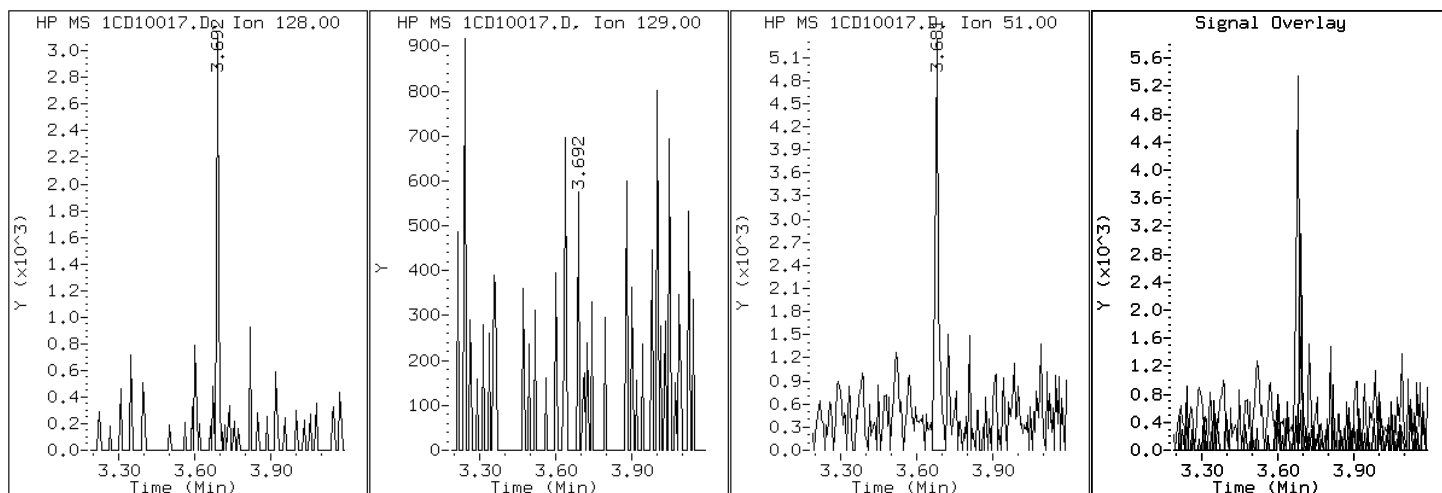
Client ID: HP0176A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

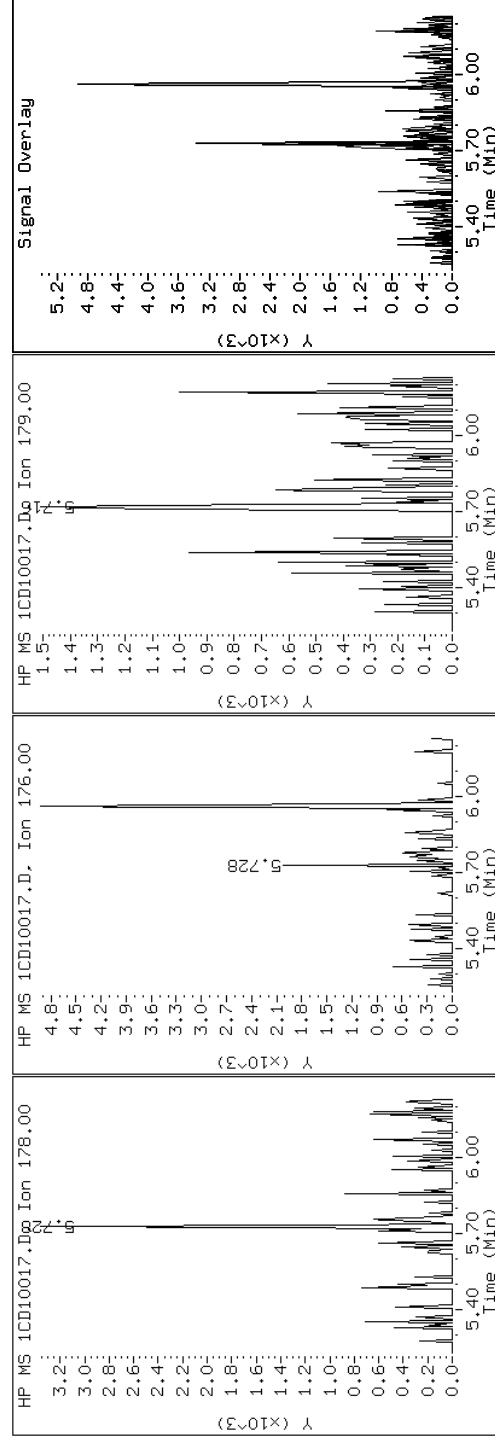
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10017.D

Date: 10-APR-2013 17:35

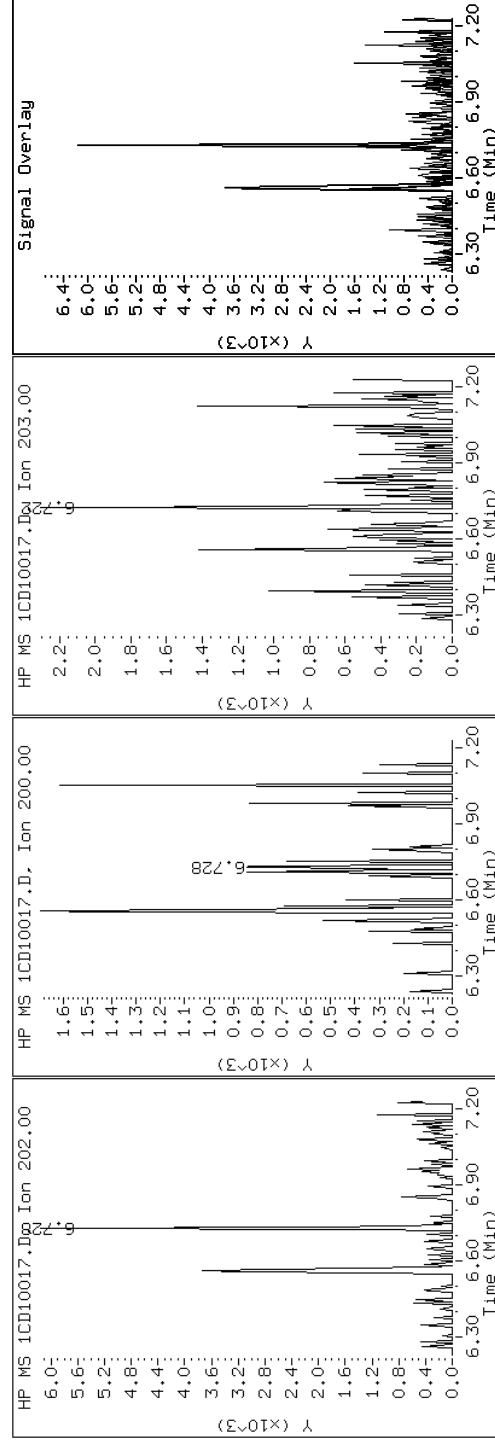
Client ID: HP0176A-CS-SP

Sample Info: 680-88980-a-1-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

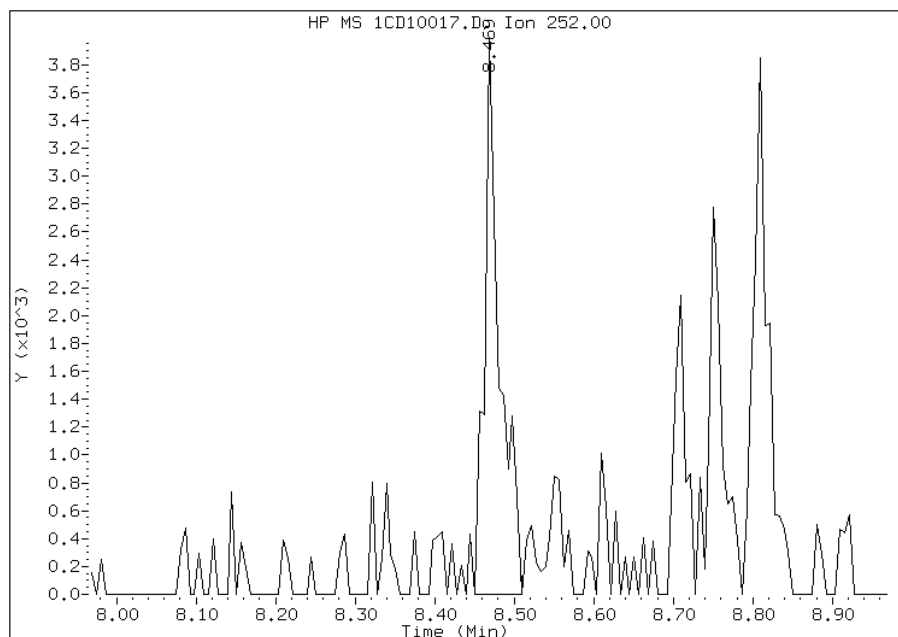


Manual Integration Report

Data File: 1CD10017.D
Inj. Date and Time: 10-APR-2013 17:35
Instrument ID: BSMC5973.i
Client ID: HP0176A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

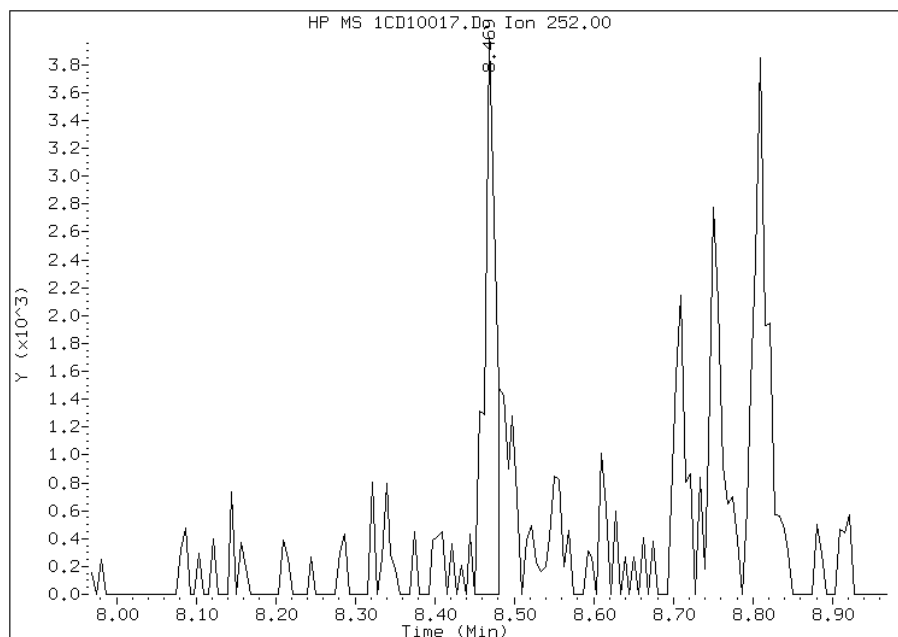
Processing Integration Results

RT: 8.47
Response: 5321
Amount: 0
Conc: 40



Manual Integration Results

RT: 8.47
Response: 3803
Amount: 0
Conc: 28



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10017.D
Inj. Date and Time: 10-APR-2013 17:35
Instrument ID: BSMC5973.i
Client ID: HP0176A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

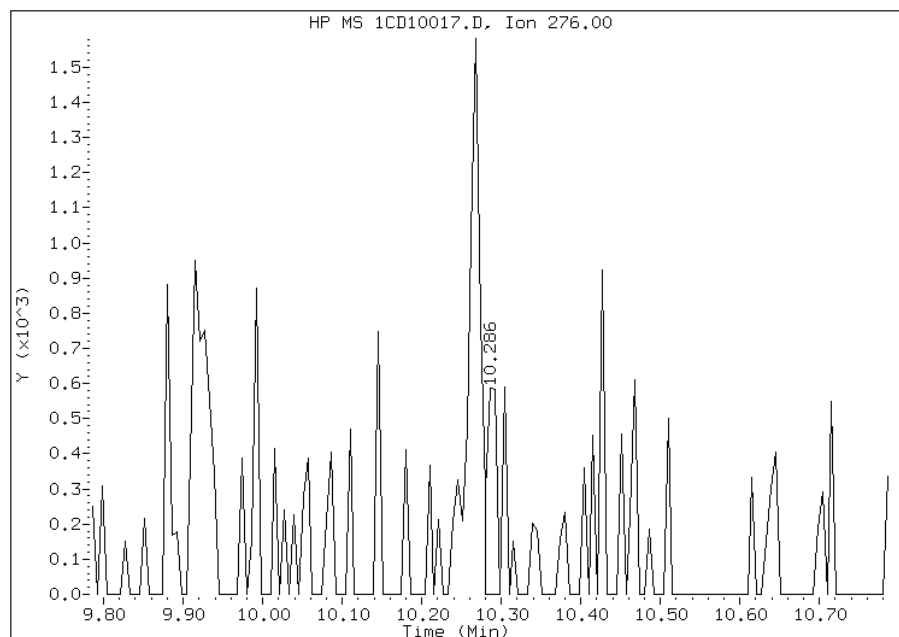
Processing Integration Results

RT: 10.29

Response: 517

Amount: 0

Conc: 4



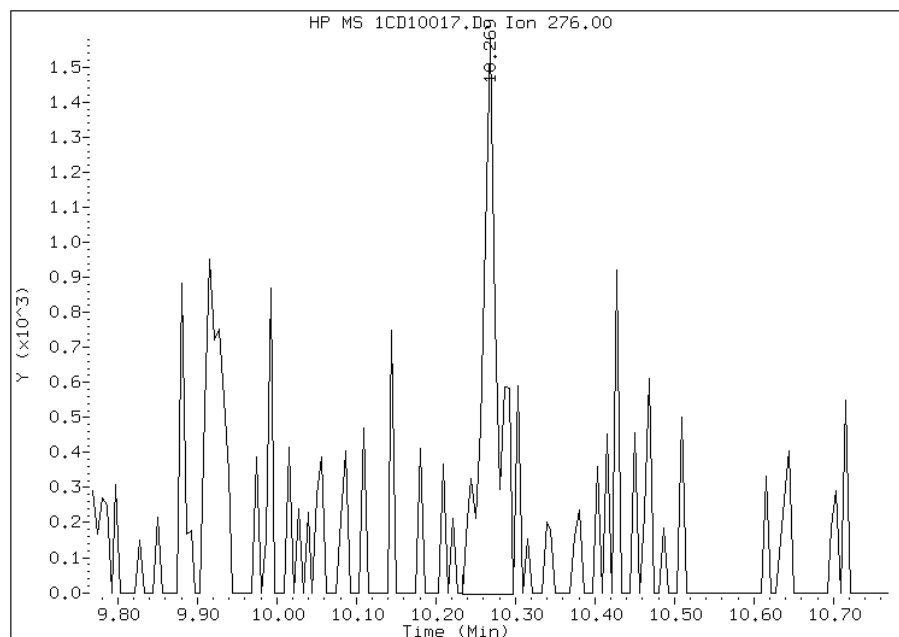
Manual Integration Results

RT: 10.27

Response: 2162

Amount: 0

Conc: 18



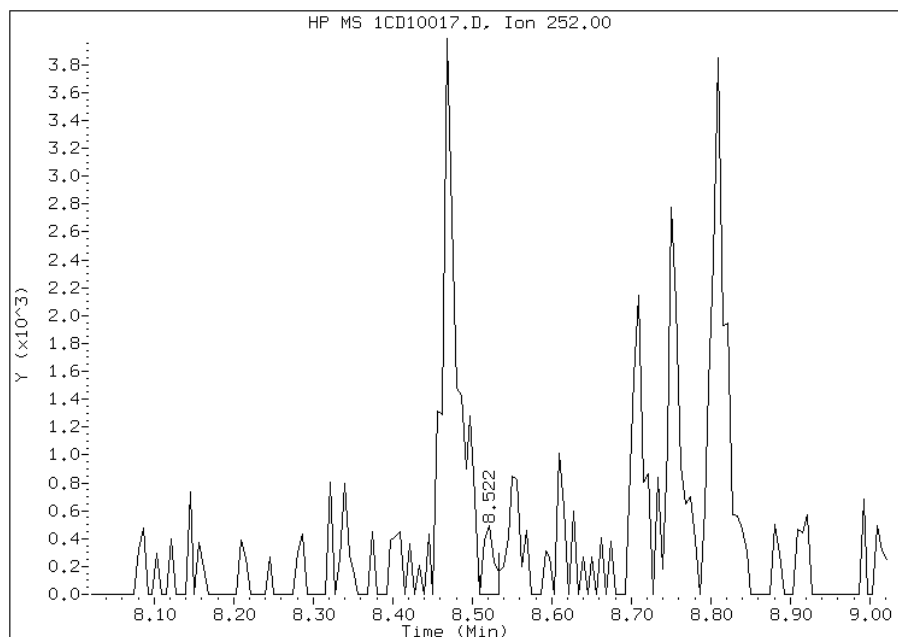
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10017.D
Inj. Date and Time: 10-APR-2013 17:35
Instrument ID: BSMC5973.i
Client ID: HP0176A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

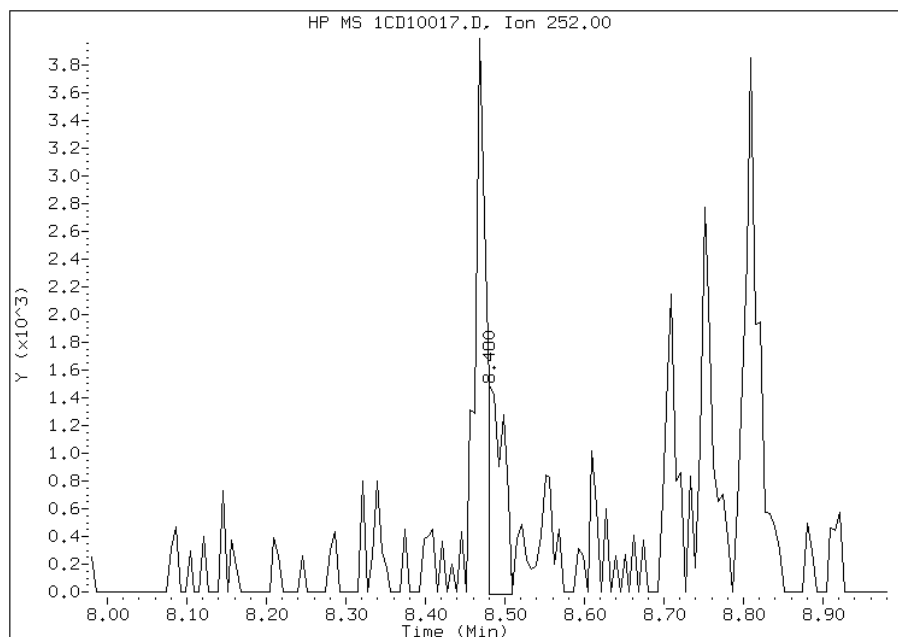
Processing Integration Results

RT: 8.52
Response: 450
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.48
Response: 2075
Amount: 0
Conc: 16



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:45
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0176B-CS-SP</u>	Lab Sample ID: <u>680-88980-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 10:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.12(g)</u>	Date Analyzed: <u>04/10/2013 17:53</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>39.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	650	U	650	130
208-96-8	Acenaphthylene	260	U	260	33
120-12-7	Anthracene	55	U	55	27
56-55-3	Benzo[a]anthracene	52	U	52	25
50-32-8	Benzo[a]pyrene	100		68	34
205-99-2	Benzo[b]fluoranthene	95		80	40
191-24-2	Benzo[g,h,i]perylene	57	J	130	29
207-08-9	Benzo[k]fluoranthene	55		52	24
218-01-9	Chrysene	80		59	29
53-70-3	Dibenz(a,h)anthracene	37	J	130	27
206-44-0	Fluoranthene	140		130	26
86-73-7	Fluorene	130	U	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	130	U	130	46
90-12-0	1-Methylnaphthalene	260	U	260	29
91-57-6	2-Methylnaphthalene	260	U	260	46
91-20-3	Naphthalene	35	J	260	29
85-01-8	Phenanthrene	120		52	25
129-00-0	Pyrene	130		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	115		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10018.D
Lab Smp Id: 680-88980-A-2-A Client Smp ID: HP0176B-CS-SP
Inj Date : 10-APR-2013 17:53
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-2-a
Misc Info : 680-88980-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	39.255	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		381285	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		294439	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		528707	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		18557	2.87573	1252.4169
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		605431	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		562822	40.0000	
2 Naphthalene	128		3.698	3.692	(1.005)		776	0.07924	34.5093(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		4303	0.27944	121.7017
15 Fluoranthene	202		6.557	6.557	(1.148)		5386	0.31672	137.9353
16 Pyrene	202		6.727	6.727	(0.880)		5139	0.30642	133.4514
19 Chrysene	228		7.662	7.668	(1.002)		3164	0.18340	79.8720
20 Benzo(b)fluoranthene	252		8.474	8.474	(0.962)		3489	0.21928	95.4975(M)
21 Benzo(k)fluoranthene	252		8.486	8.498	(0.963)		1930	0.12541	54.6186(QMH)
22 Benzo(a)pyrene	252		8.751	8.756	(0.993)		3558	0.23751	103.4398

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
25 Dibenzo(a,h)anthracene	278	9.939	9.950	(1.128)	1108	0.08430	36.7133
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	1897	0.13063	56.8916

QC Flag Legend

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

Data File: 1CD10018.D

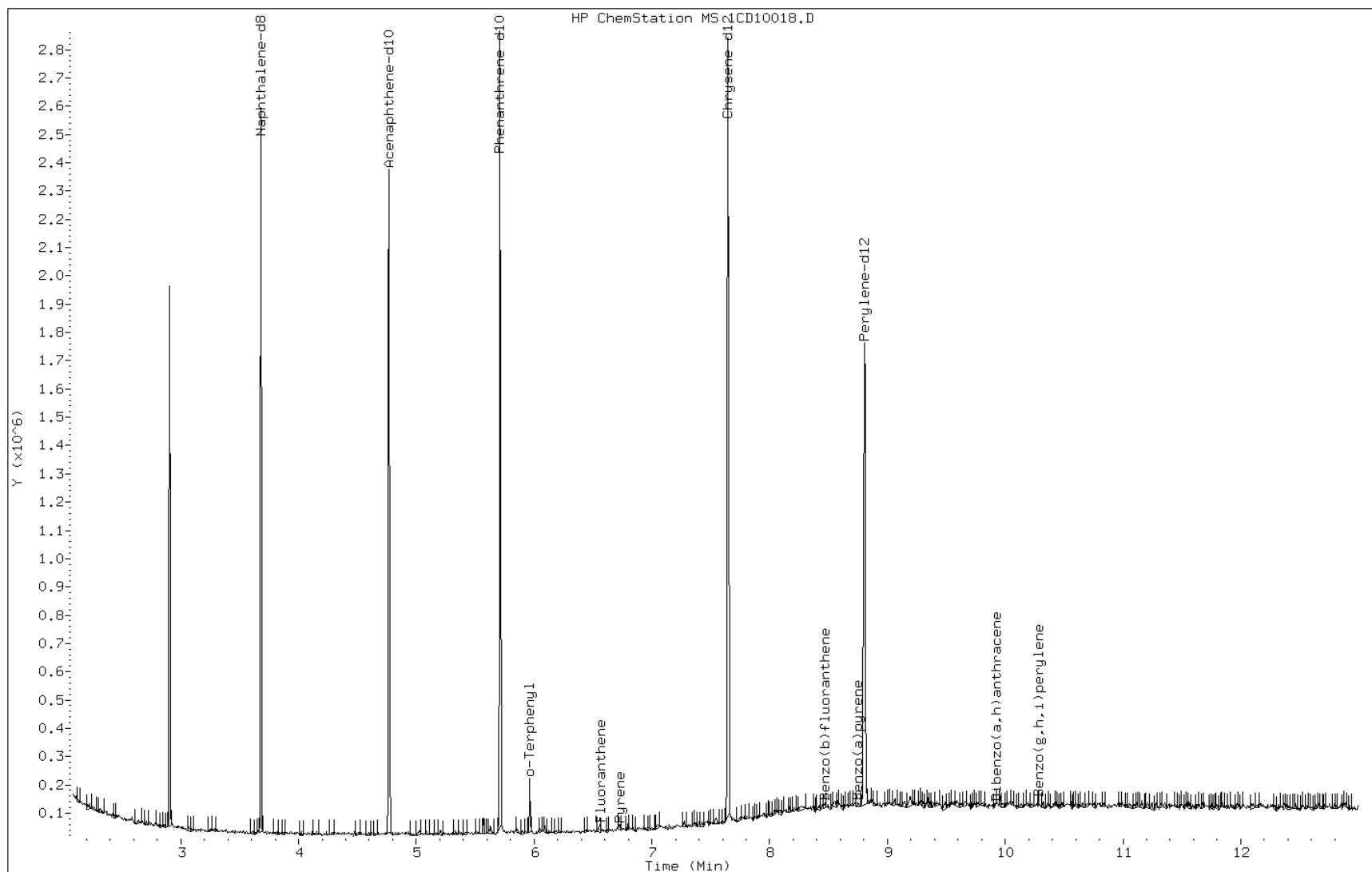
Date: 10-APR-2013 17:53

Client ID: HP0176B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-2-a

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

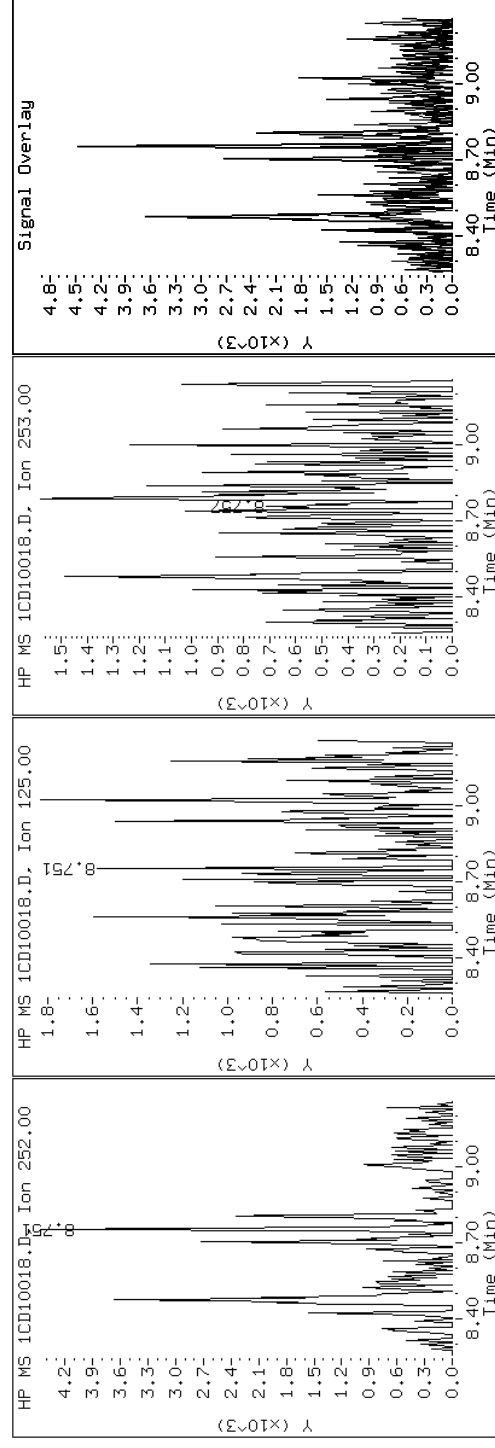
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

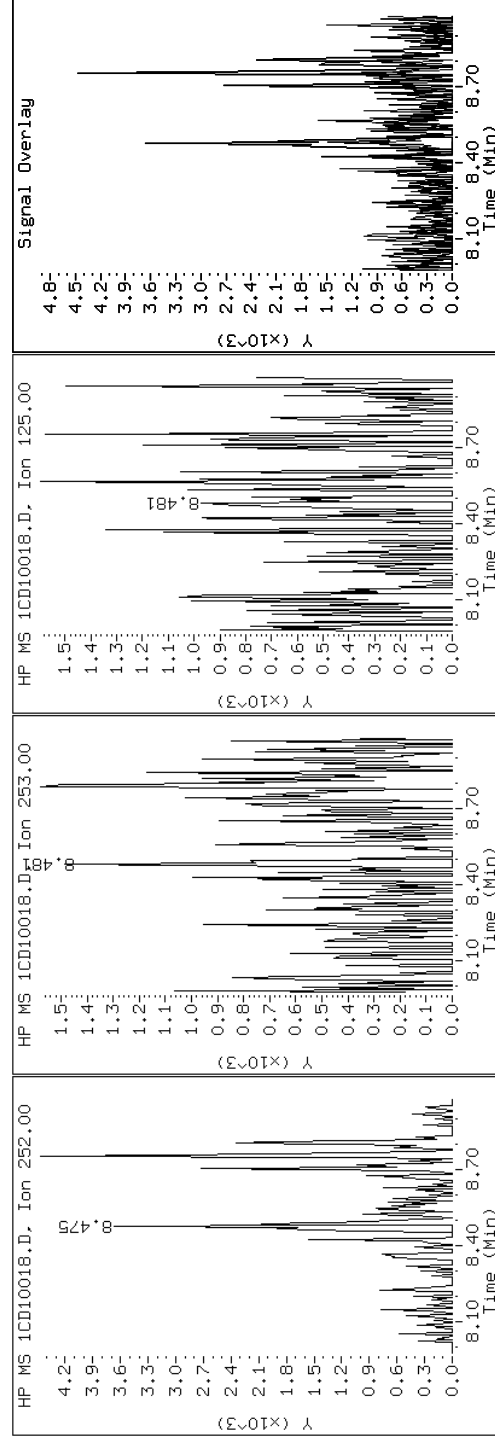
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

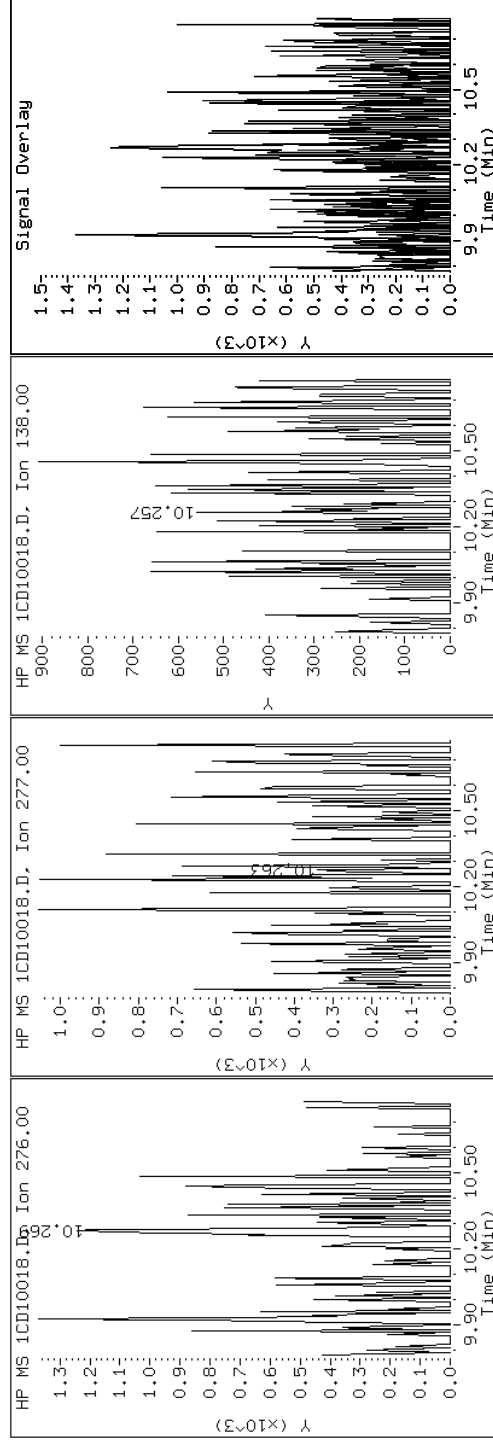
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

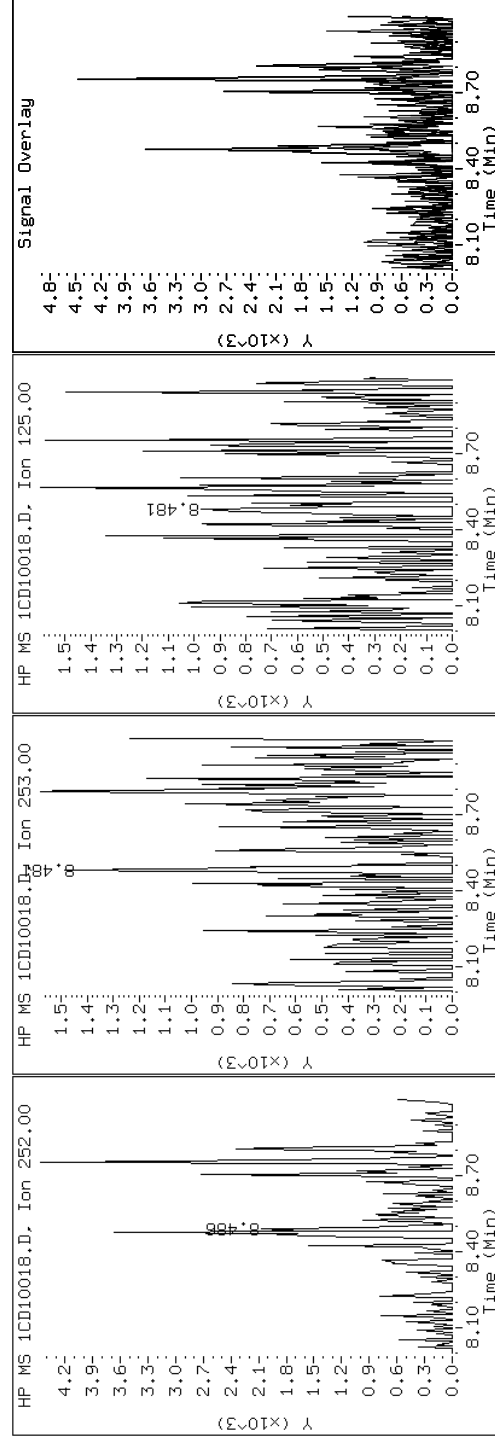
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

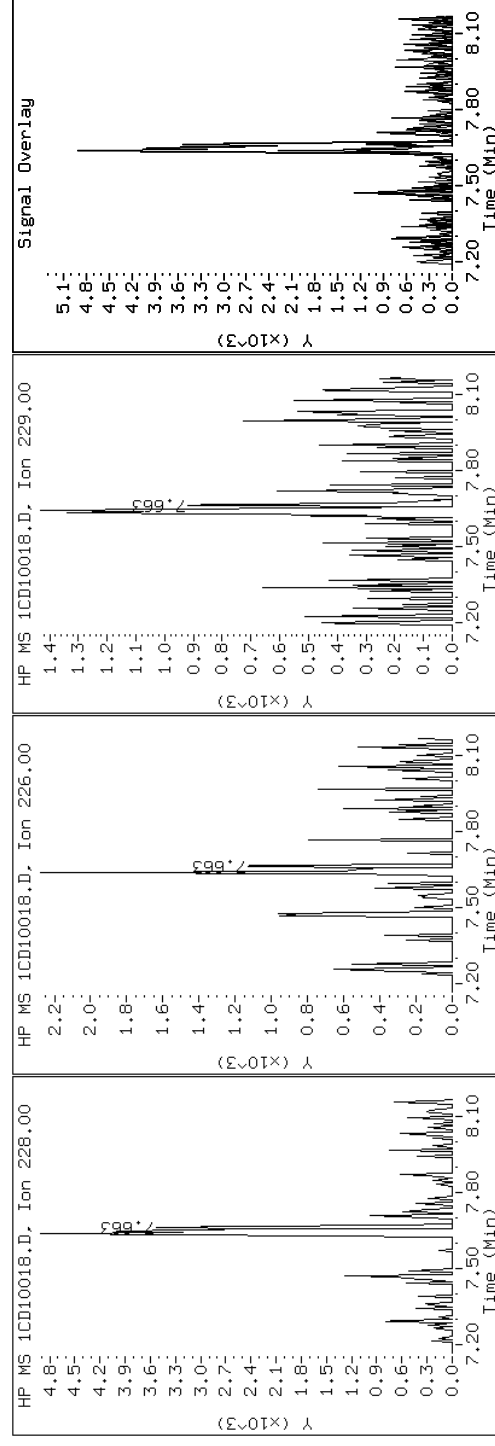
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

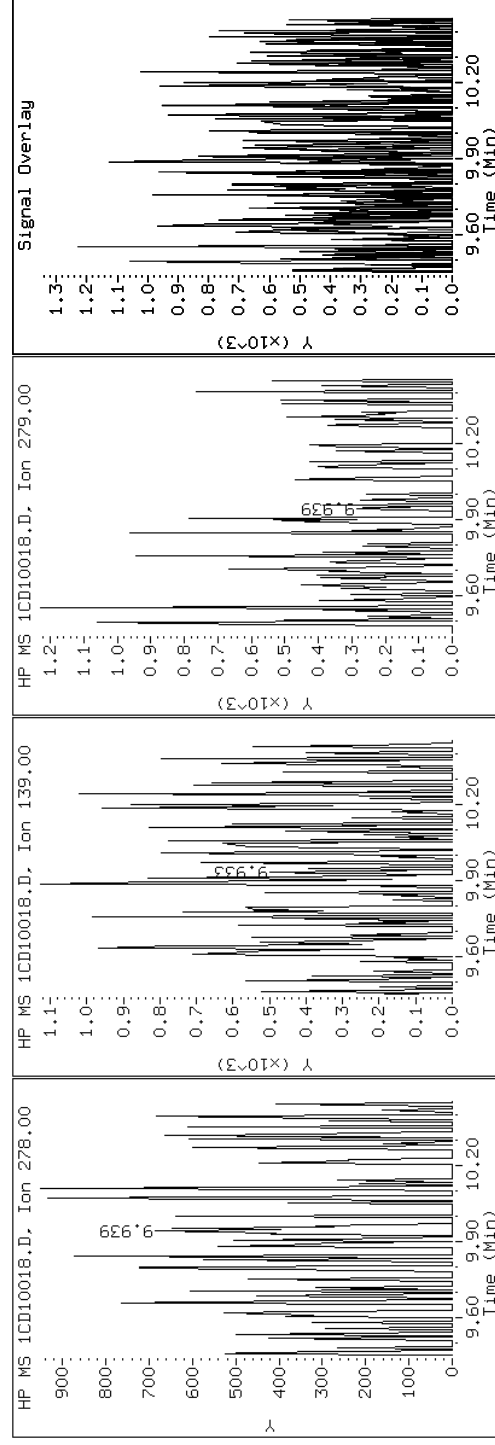
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

25 Dibenzo(a,h)anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

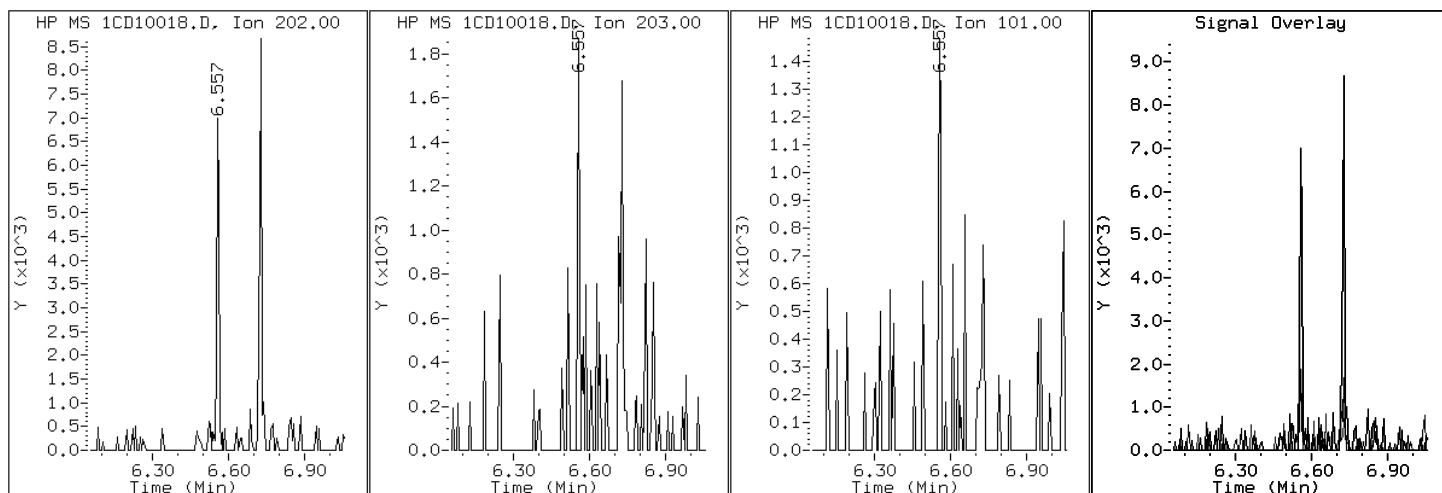
Client ID: HP0176B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

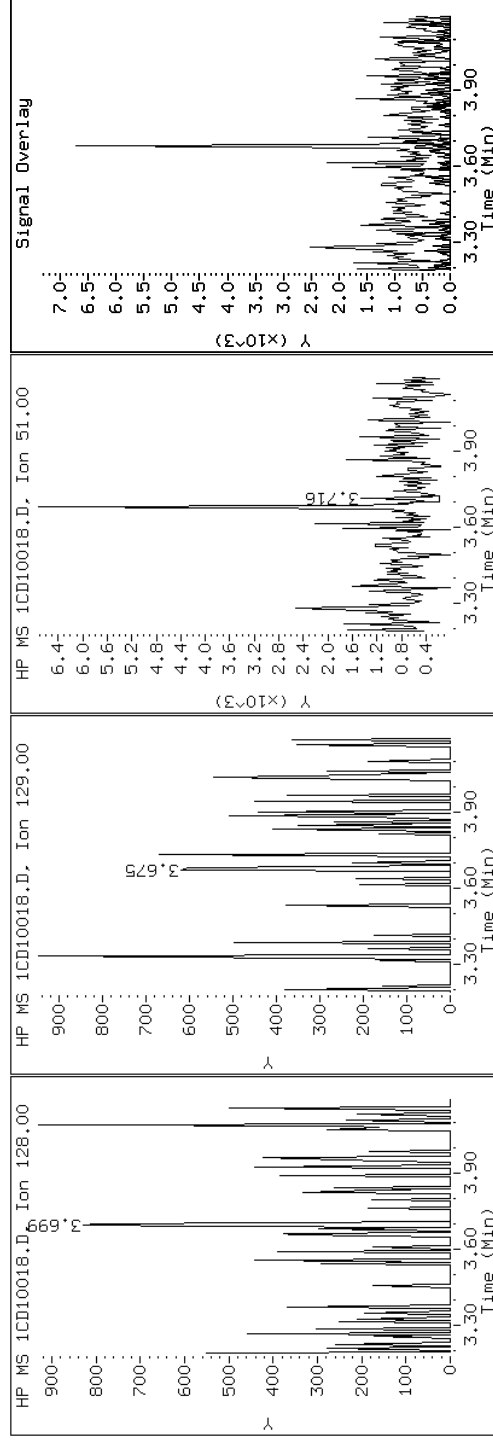
Client ID: HP0176B-CS-SP

Sample Info: 680-88980-a-2-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

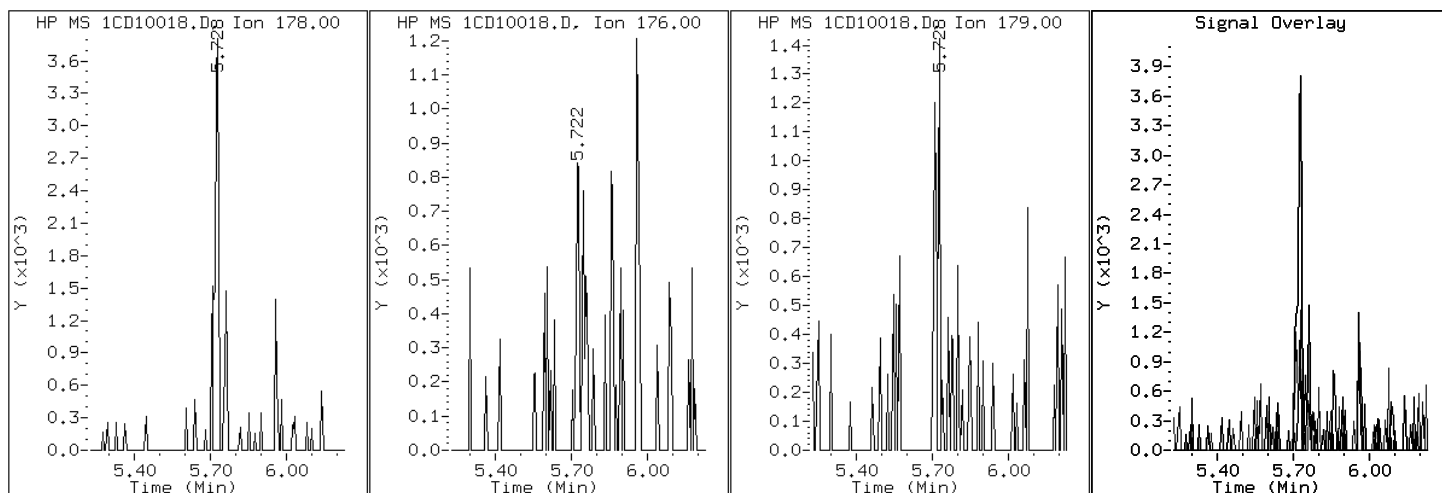
Client ID: HP0176B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10018.D

Date: 10-APR-2013 17:53

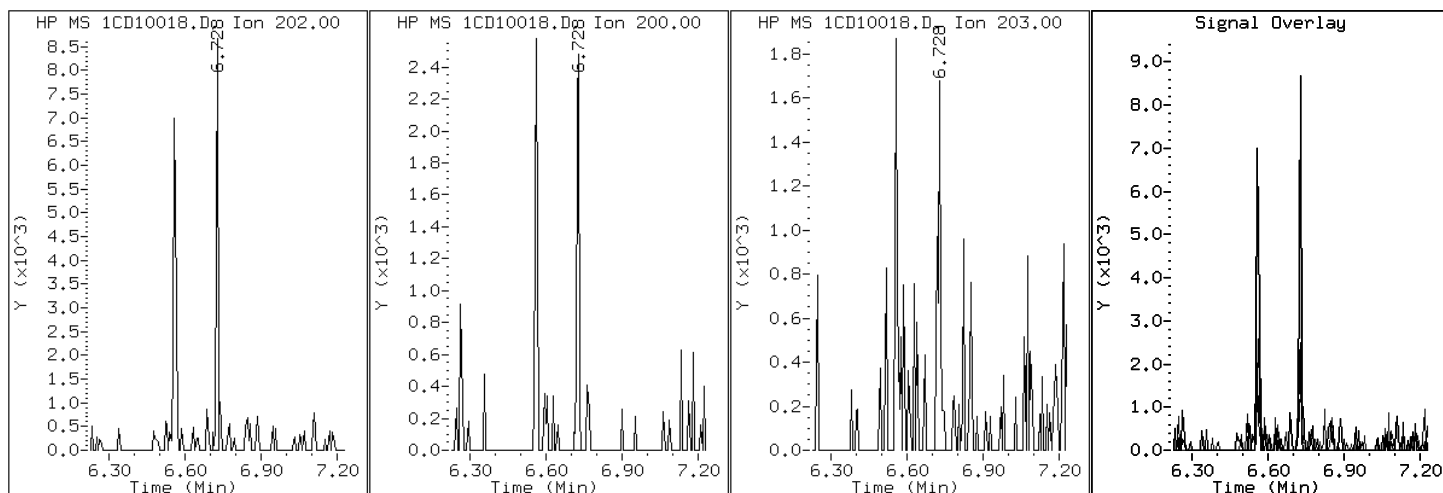
Client ID: HP0176B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-2-a

Operator: SCC

16 Pyrene

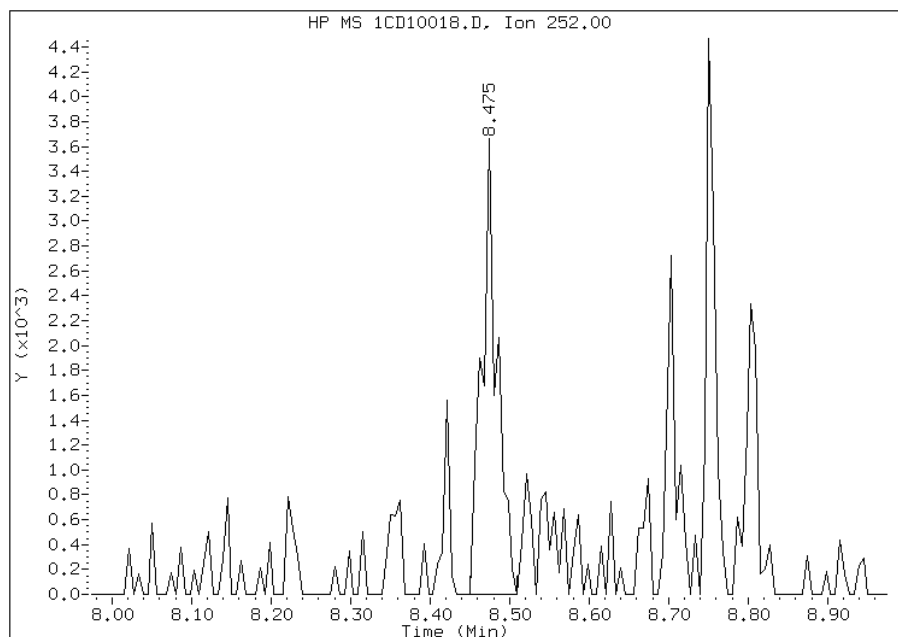


Manual Integration Report

Data File: 1CD10018.D
Inj. Date and Time: 10-APR-2013 17:53
Instrument ID: BSMC5973.i
Client ID: HP0176B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

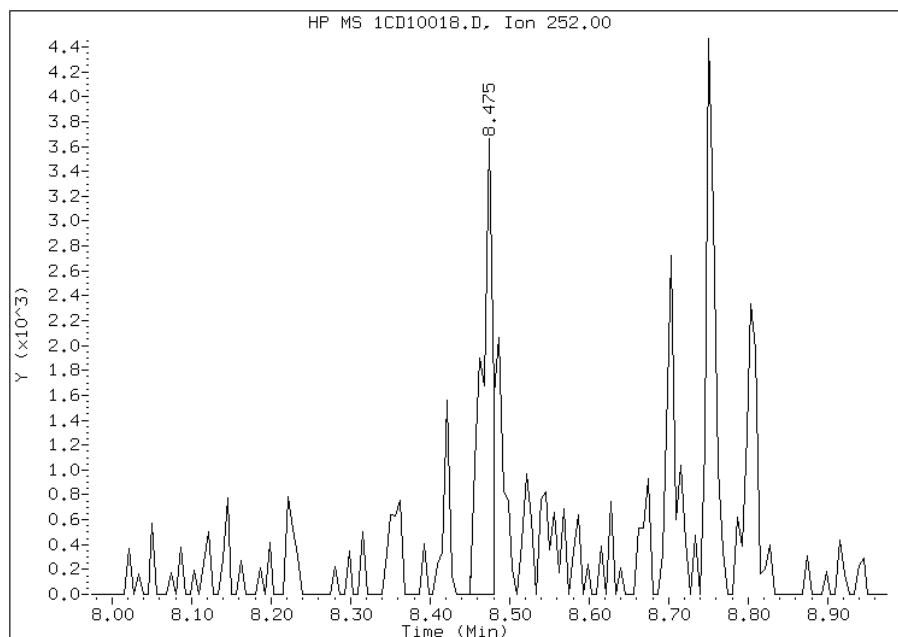
Processing Integration Results

RT: 8.47
Response: 4853
Amount: 0
Conc: 133



Manual Integration Results

RT: 8.47
Response: 3489
Amount: 0
Conc: 95



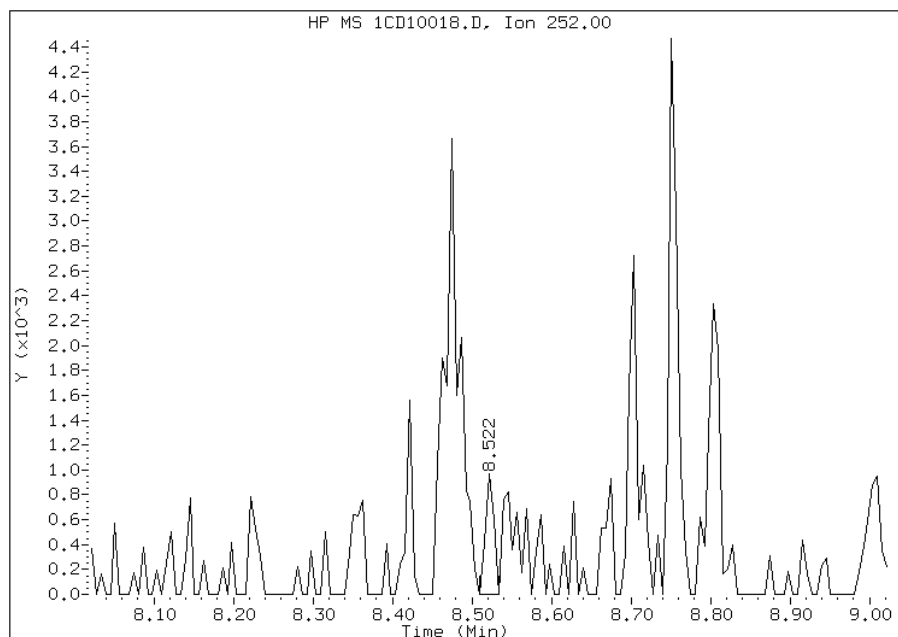
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10018.D
Inj. Date and Time: 10-APR-2013 17:53
Instrument ID: BSMC5973.i
Client ID: HP0176B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

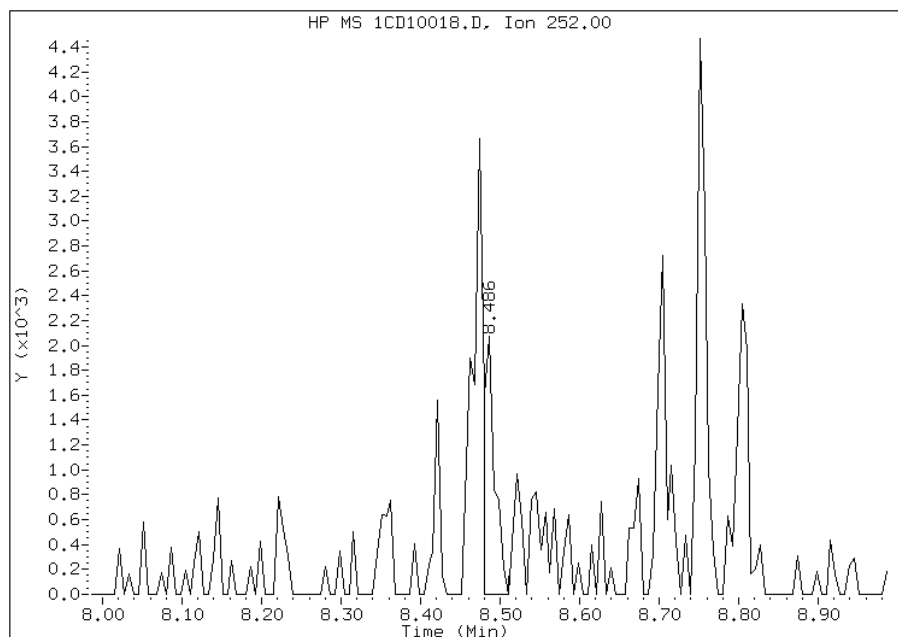
Processing Integration Results

RT: 8.52
Response: 699
Amount: 0
Conc: 20



Manual Integration Results

RT: 8.49
Response: 1930
Amount: 0
Conc: 55



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:46
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0257A-CS-SP</u>	Lab Sample ID: <u>680-88980-3</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>14.98(g)</u>	Date Analyzed: <u>04/10/2013 18:11</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>41.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	68	U	68	8.5
120-12-7	Anthracene	14	U	14	7.2
56-55-3	Benzo[a]anthracene	14	U	14	6.6
50-32-8	Benzo[a]pyrene	18	U	18	8.9
205-99-2	Benzo[b]fluoranthene	12	J	21	10
191-24-2	Benzo[g,h,i]perylene	34	U	34	7.5
207-08-9	Benzo[k]fluoranthene	14	U	14	6.1
218-01-9	Chrysene	15	U	15	7.7
53-70-3	Dibenz(a,h)anthracene	34	U	34	7.0
206-44-0	Fluoranthene	34	U	34	6.8
86-73-7	Fluorene	34	U	34	7.0
193-39-5	Indeno[1,2,3-cd]pyrene	34	U	34	12
90-12-0	1-Methylnaphthalene	68	U	68	7.5
91-57-6	2-Methylnaphthalene	68	U	68	12
91-20-3	Naphthalene	11	J	68	7.5
85-01-8	Phenanthrene	14	U	14	6.6
129-00-0	Pyrene	34	U	34	6.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10019.D
Lab Smp Id: 680-88980-A-3-A Client Smp ID: HP0257A-CS-SP
Inj Date : 10-APR-2013 18:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-3-a
Misc Info : 680-88980-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	41.270	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		363532	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		273961	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		526068	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		51608	6.73561	765.6034
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		605160	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		577296	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		902	0.09660	10.9803
20 Benzo(b)fluoranthene	252		8.462	8.474	(0.961)		1779	0.10900	12.3898

Data File: 1CD10019.D

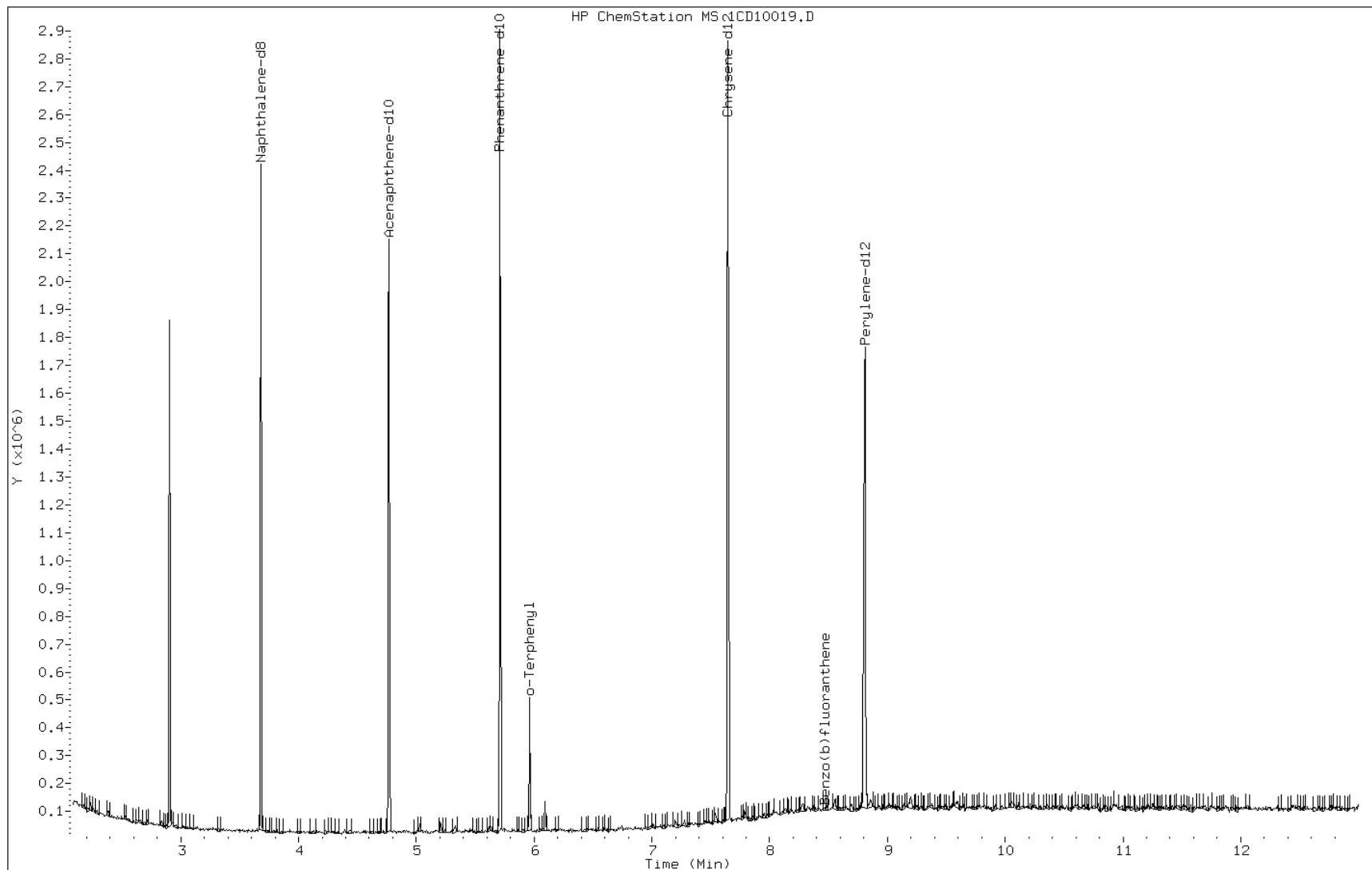
Date: 10-APR-2013 18:11

Client ID: HP0257A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-3-a

Operator: SCC



Data File: 1CD10019.D

Date: 10-APR-2013 18:11

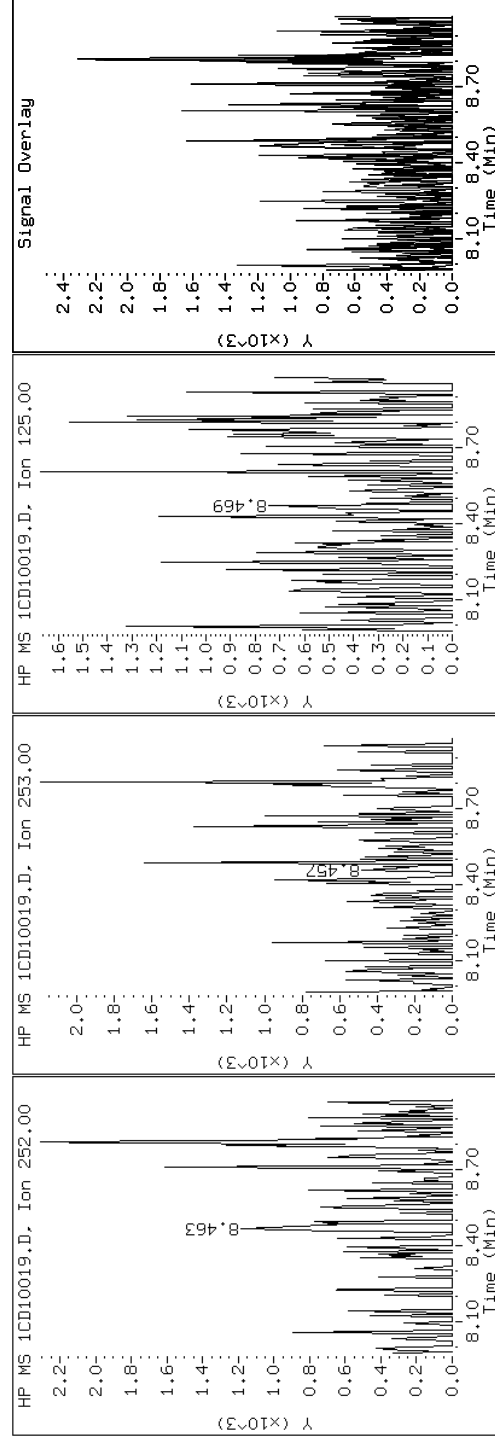
Client ID: HP0257A-CS-SP

Sample Info: 680-88980-a-3-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10019.D

Date: 10-APR-2013 18:11

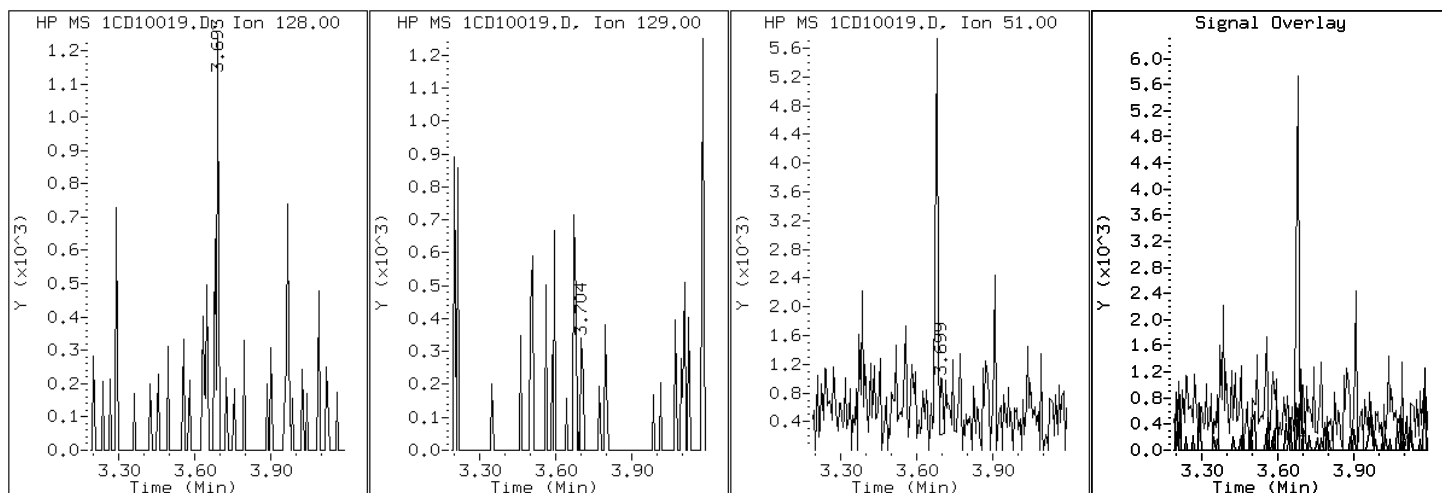
Client ID: HP0257A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-3-a

Operator: SCC

2 Naphthalene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0257B-CS-SP</u>	Lab Sample ID: <u>680-88980-4</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>14.93(g)</u>	Date Analyzed: <u>04/10/2013 18:30</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>37.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	65	U	65	8.1
120-12-7	Anthracene	14	U	14	6.8
56-55-3	Benzo[a]anthracene	13	U	13	6.3
50-32-8	Benzo[a]pyrene	12	J	17	8.4
205-99-2	Benzo[b]fluoranthene	15	J	20	9.8
191-24-2	Benzo[g,h,i]perylene	32	U	32	7.1
207-08-9	Benzo[k]fluoranthene	13	U	13	5.8
218-01-9	Chrysene	7.5	J	15	7.3
53-70-3	Dibenz(a,h)anthracene	32	U	32	6.6
206-44-0	Fluoranthene	6.9	J	32	6.5
86-73-7	Fluorene	32	U	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	32	U	32	11
90-12-0	1-Methylnaphthalene	12	J	65	7.1
91-57-6	2-Methylnaphthalene	14	J	65	11
91-20-3	Naphthalene	12	J	65	7.1
85-01-8	Phenanthrene	8.5	J	13	6.3
129-00-0	Pyrene	32	U	32	6.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10020.D
Lab Smp Id: 680-88980-A-4-A Client Smp ID: HP0257B-CS-SP
Inj Date : 10-APR-2013 18:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-4-a
Misc Info : 680-88980-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	37.698	% 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	FINAL
							(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8		136	3.680	3.680	(1.000)	379095	40.0000	
* 6 Acenaphthene-d10		164	4.768	4.768	(1.000)	269993	40.0000	
* 10 Phenanthrene-d10		188	5.710	5.710	(1.000)	518995	40.0000	
\$ 14 o-Terphenyl		230	5.963	5.963	(1.044)	43290	5.83561	627.3660
* 18 Chrysene-d12		240	7.645	7.645	(1.000)	576153	40.0000	
* 23 Perylene-d12		264	8.804	8.809	(1.000)	578183	40.0000	
2 Naphthalene		128	3.692	3.692	(1.003)	1102	0.11318	12.1672(Q)
3 2-Methylnaphthalene		142	4.121	4.121	(1.120)	869	0.13111	14.0949(Q)
4 1-Methylnaphthalene		142	4.174	4.180	(1.134)	661	0.11083	11.9151(Q)
11 Phenanthrene		178	5.727	5.727	(1.003)	1190	0.07873	8.4636(Q)
15 Fluoranthene		202	6.557	6.557	(1.148)	1078	0.06458	6.9424
19 Chrysene		228	7.662	7.668	(1.002)	1150	0.07005	7.5303(Q)
20 Benzo(b)fluoranthene		252	8.474	8.474	(0.963)	2321	0.14199	15.2653(M)
22 Benzo(a)pyrene		252	8.751	8.756	(0.994)	1715	0.11144	11.9807

QC Flag Legend

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

Data File: 1CD10020.D

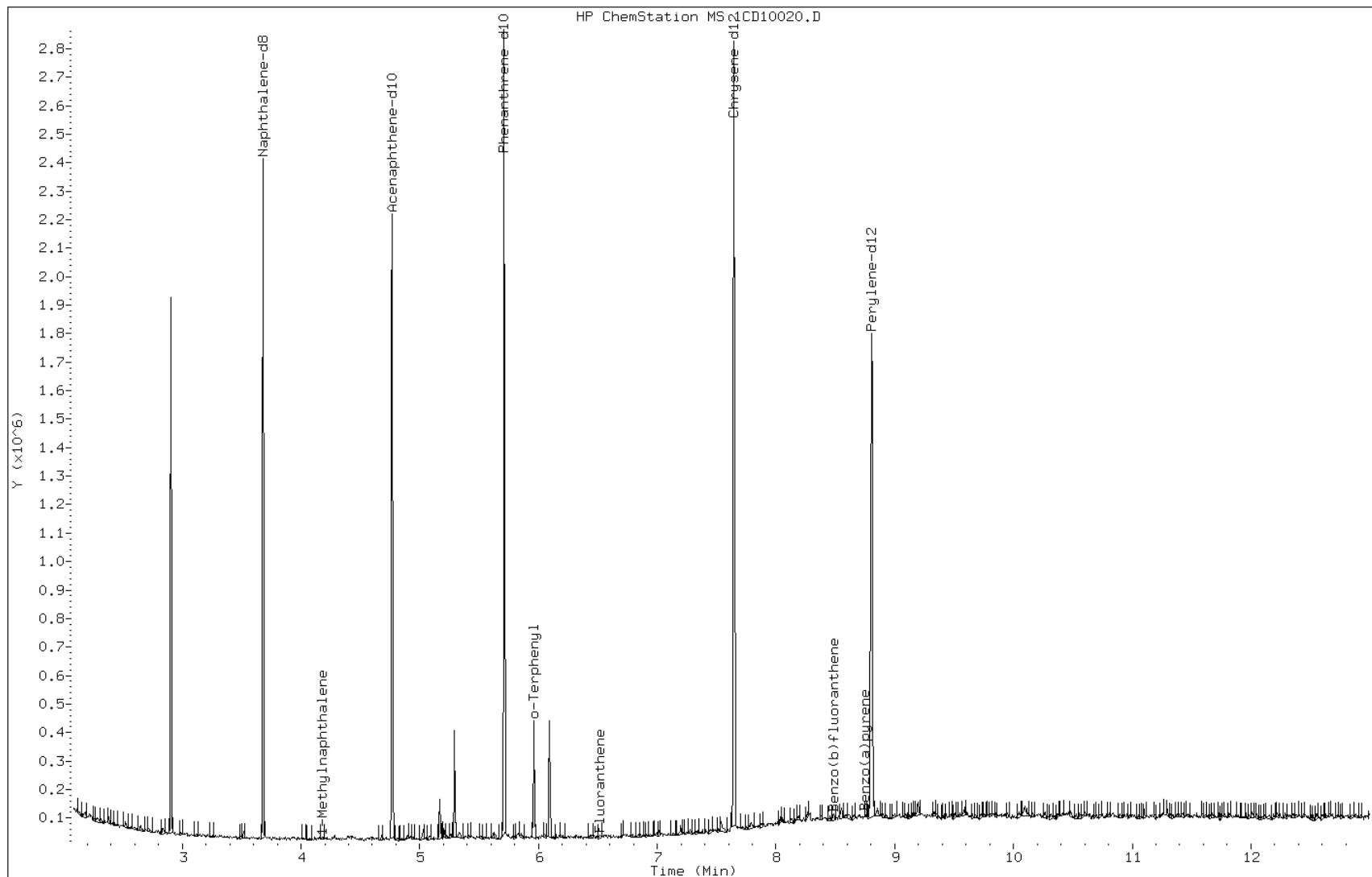
Date: 10-APR-2013 18:30

Client ID: HP0257B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-4-a

Operator: SCC



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

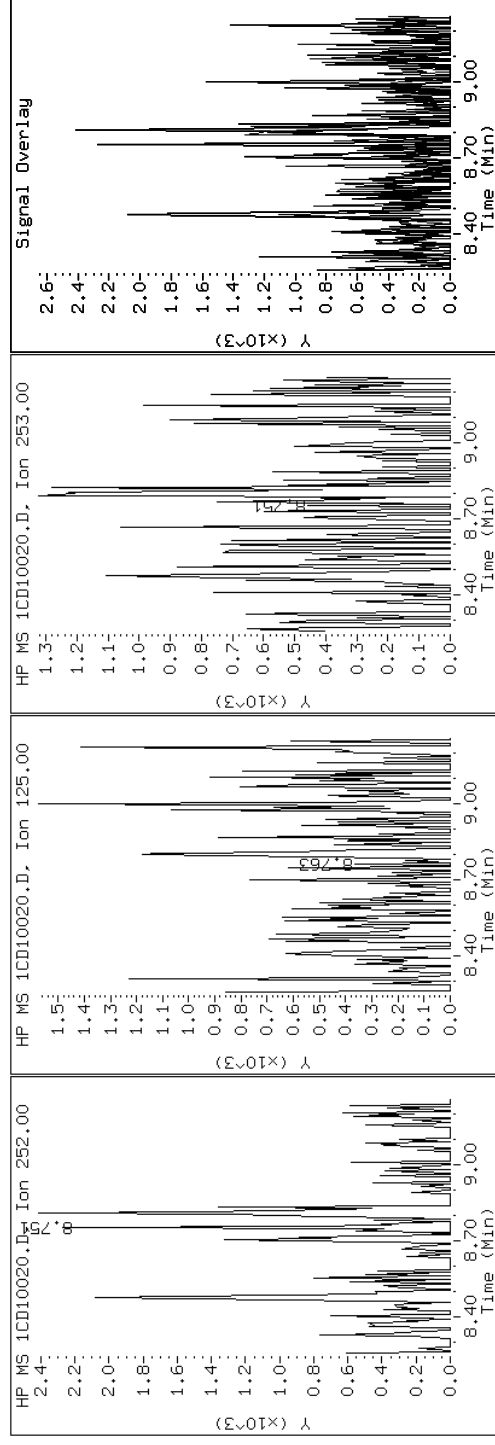
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

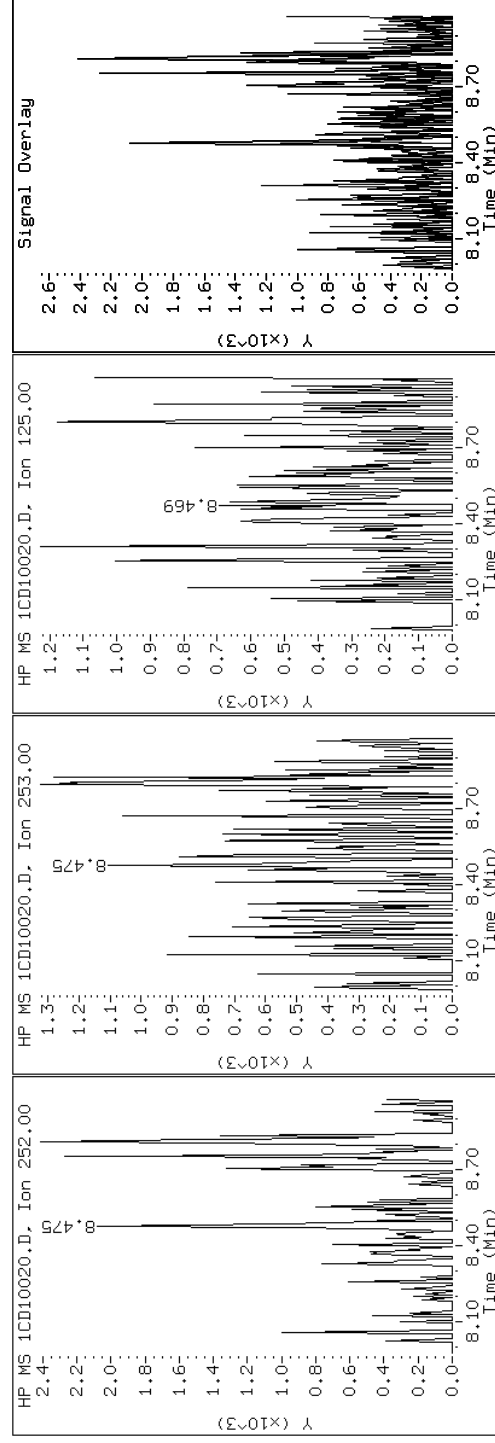
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

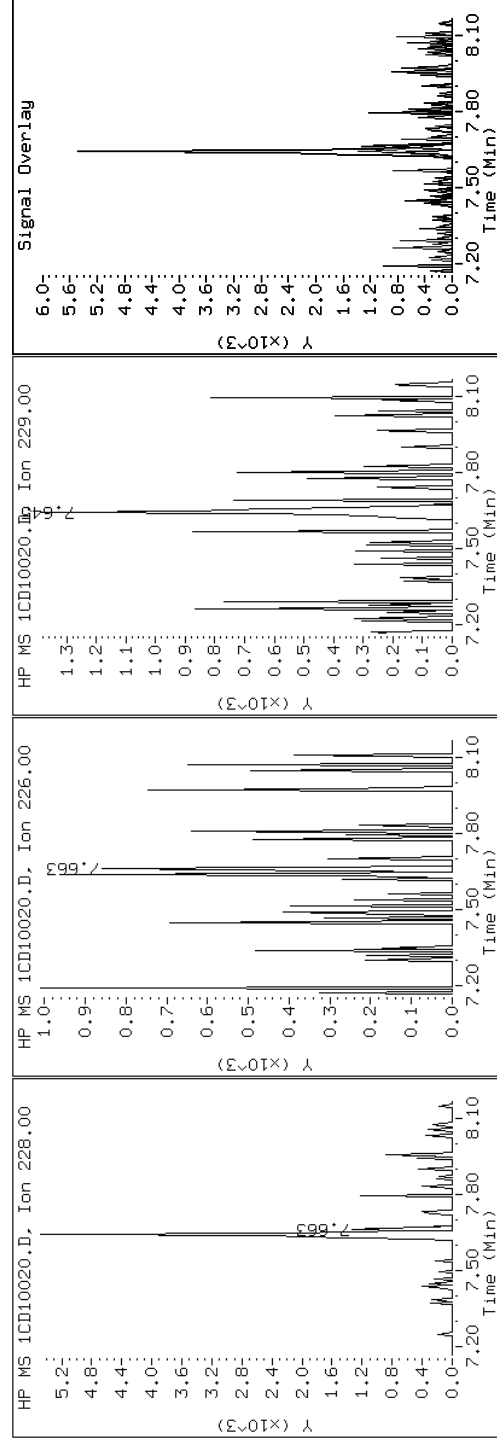
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

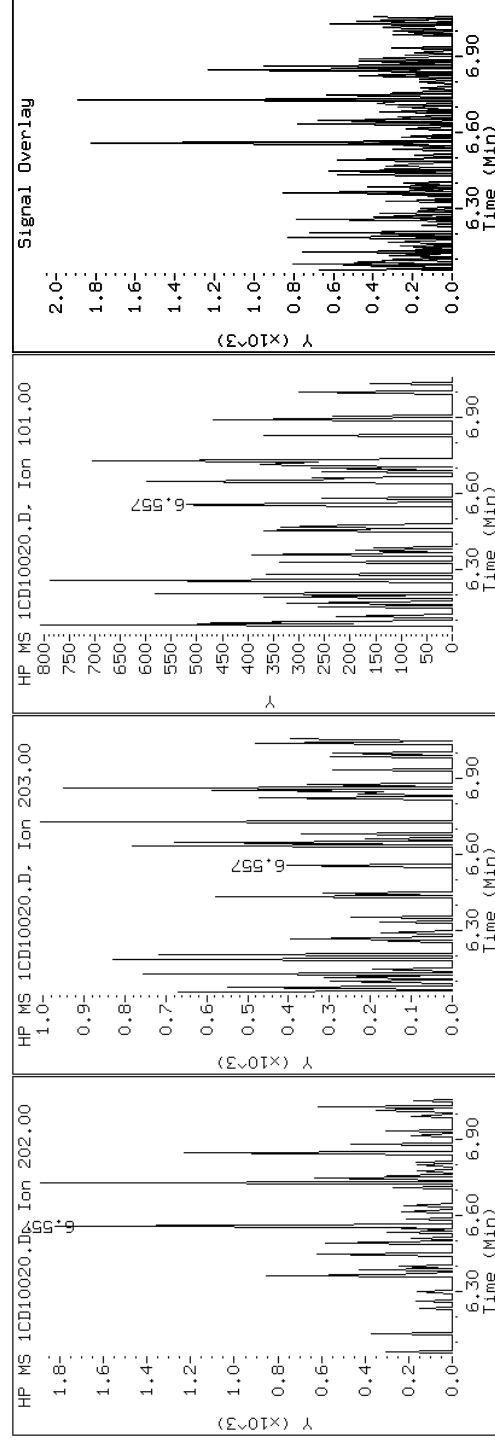
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

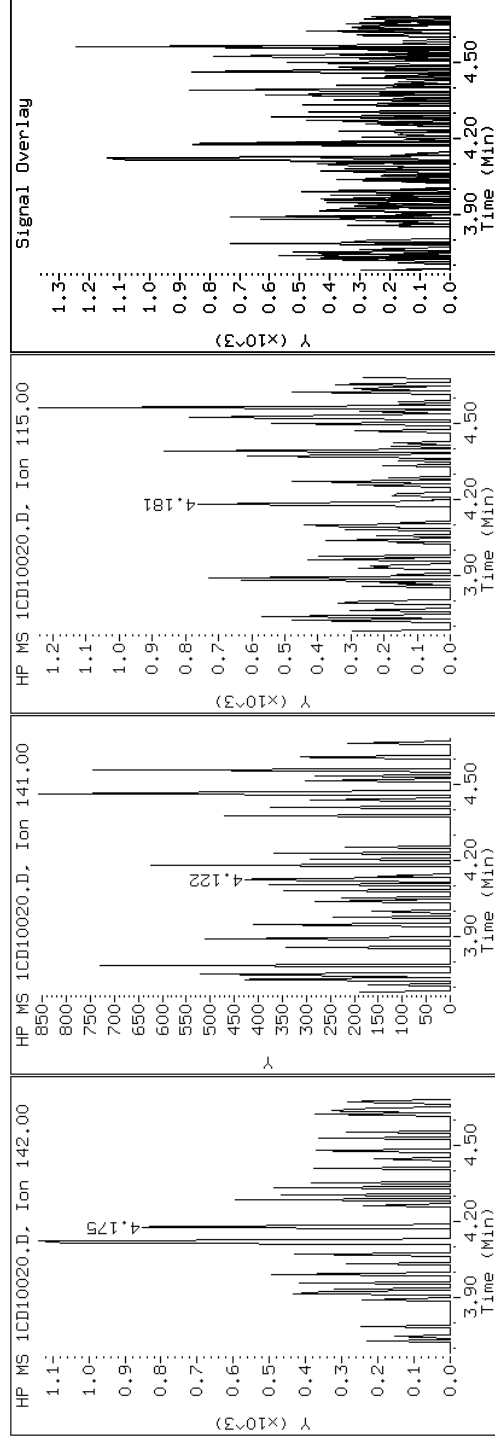
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

4 1-Methylnaphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

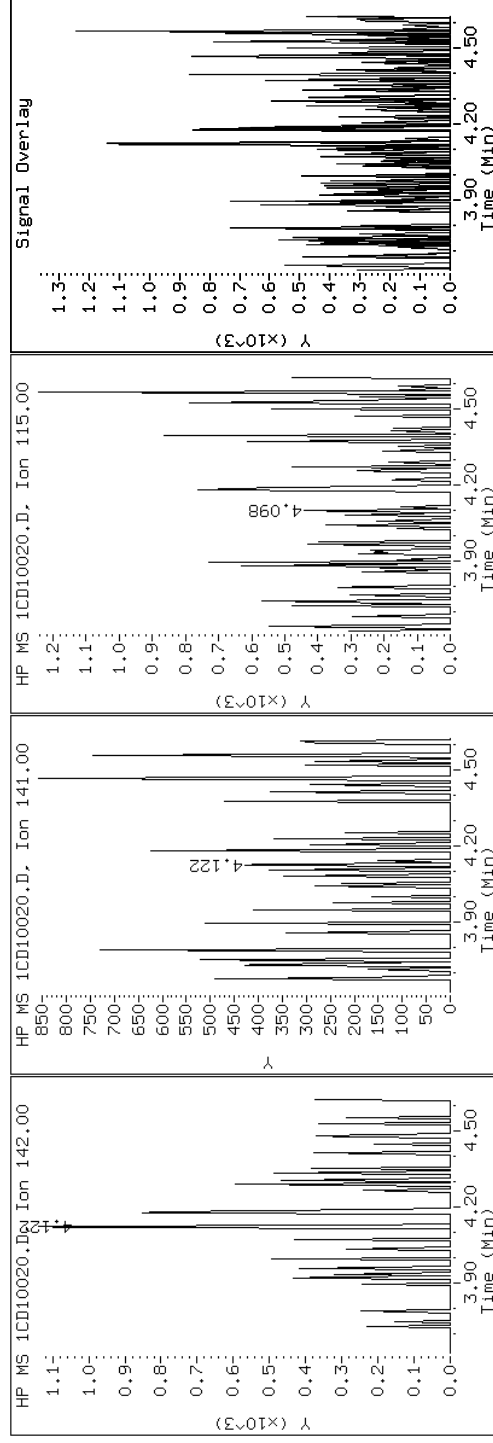
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

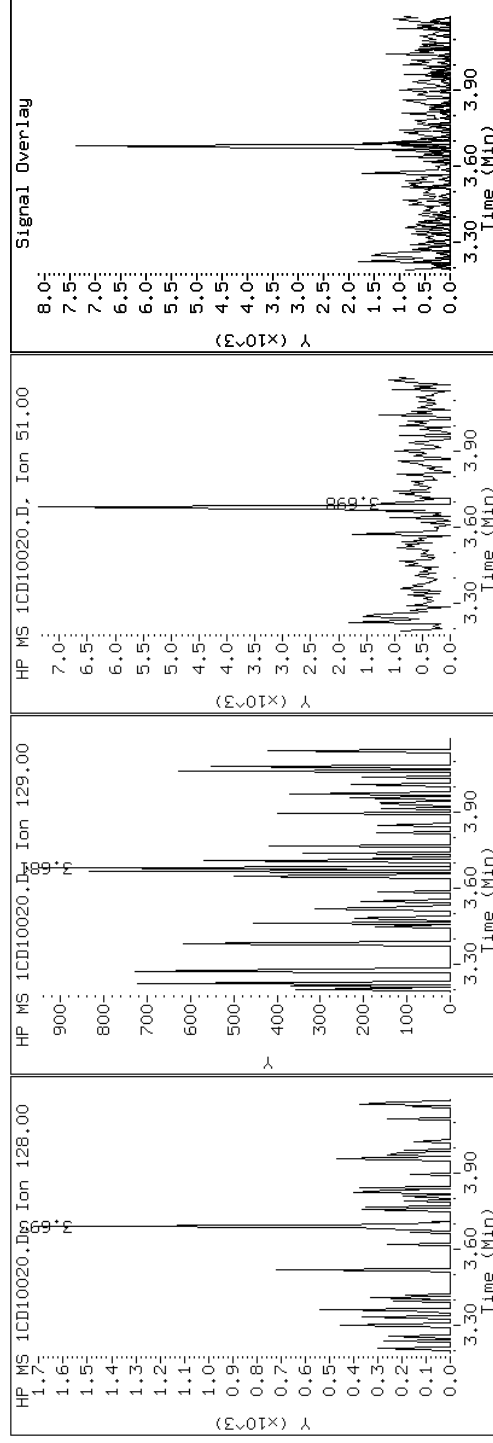
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10020.D

Date: 10-APR-2013 18:30

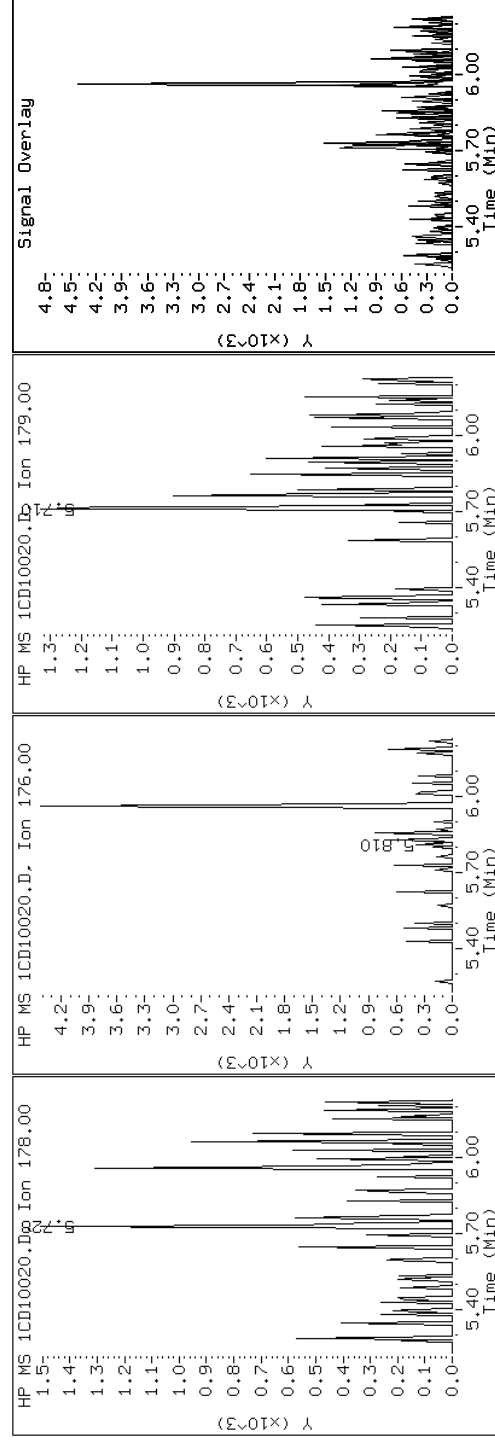
Client ID: HP0257B-CS-SP

Sample Info: 680-88980-a-4-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene

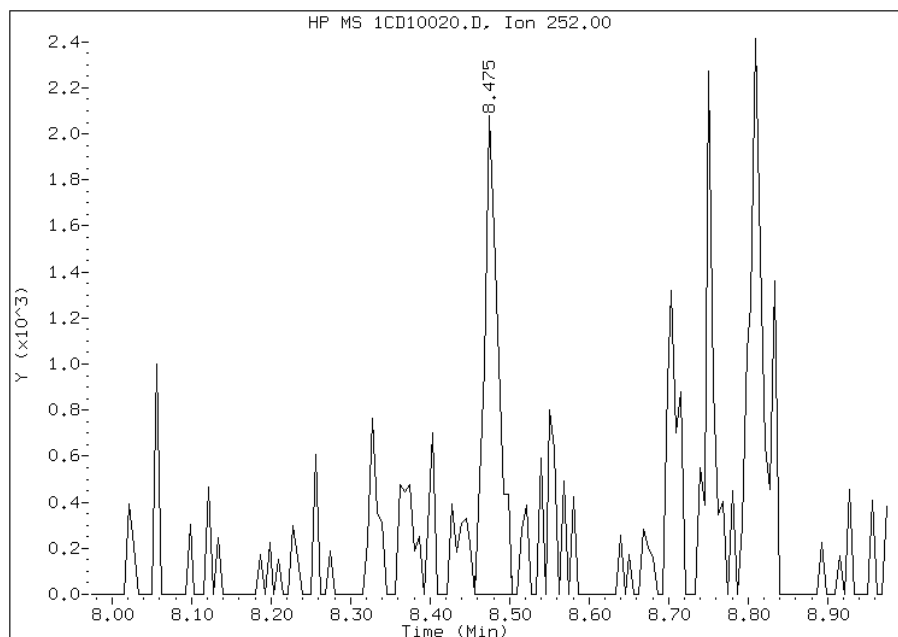


Manual Integration Report

Data File: 1CD10020.D
Inj. Date and Time: 10-APR-2013 18:30
Instrument ID: BSMC5973.i
Client ID: HP0257B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

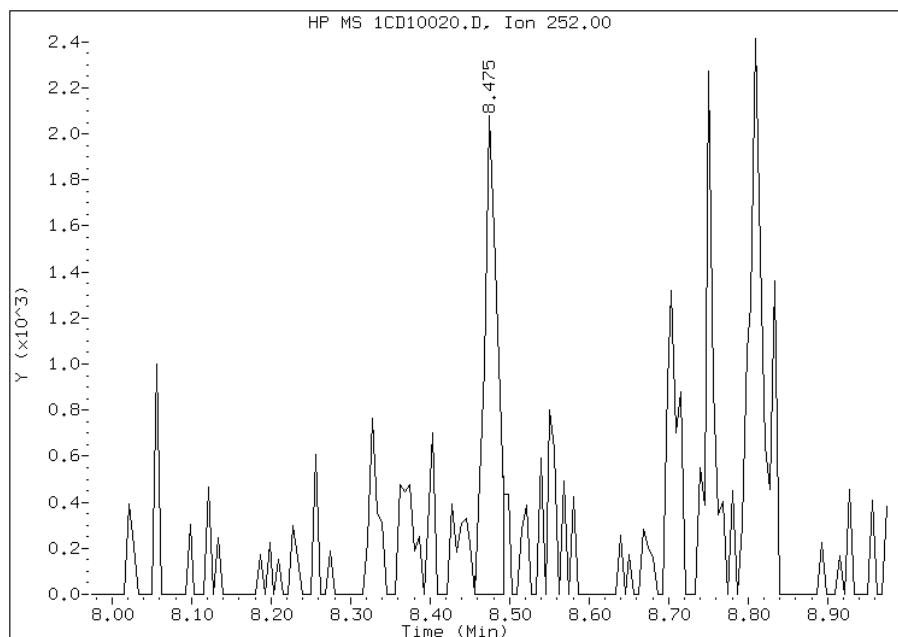
Processing Integration Results

RT: 8.47
Response: 2474
Amount: 0
Conc: 16



Manual Integration Results

RT: 8.47
Response: 2321
Amount: 0
Conc: 15



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0380A-CS</u>	Lab Sample ID: <u>680-88980-5</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>04/10/2013 18:48</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>39.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	66	U	66	8.2
120-12-7	Anthracene	14	U	14	6.9
56-55-3	Benzo[a]anthracene	13	U	13	6.4
50-32-8	Benzo[a]pyrene	25		17	8.6
205-99-2	Benzo[b]fluoranthene	34		20	10
191-24-2	Benzo[g,h,i]perylene	15	J	33	7.2
207-08-9	Benzo[k]fluoranthene	20		13	5.9
218-01-9	Chrysene	38		15	7.4
53-70-3	Dibenz(a,h)anthracene	33	U	33	6.7
206-44-0	Fluoranthene	55		33	6.6
86-73-7	Fluorene	33	U	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	19	J	33	12
90-12-0	1-Methylnaphthalene	29	J	66	7.2
91-57-6	2-Methylnaphthalene	35	J	66	12
91-20-3	Naphthalene	43	J	66	7.2
85-01-8	Phenanthrene	46		13	6.4
129-00-0	Pyrene	44		33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10021.D
Lab Smp Id: 680-88980-A-5-A Client Smp ID: CV0380A-CS
Inj Date : 10-APR-2013 18:48
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-5-a
Misc Info : 680-88980-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	39.606	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		373974	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		280368	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		519640	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		44560	5.97900	656.0641
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		637518	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		598987	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		3793	0.39488	43.3294
3 2-Methylnaphthalene	142		4.115	4.121	(1.118)		2081	0.31826	34.9226
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		1570	0.26685	29.2809
11 Phenanthrene	178		5.727	5.727	(1.003)		6315	0.41726	45.7855
13 Carbazole	167		5.874	5.868	(1.029)		1621	0.12333	13.5323(Q)
15 Fluoranthene	202		6.557	6.557	(1.148)		8421	0.50383	55.2843
16 Pyrene	202		6.727	6.727	(0.880)		7039	0.39859	43.7365
19 Chrysene	228		7.662	7.668	(1.002)		6281	0.34575	37.9381

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL			ON-COLUMN	FINAL
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.468	8.474 (0.961)		5286	0.31216	34.2522(M)
21 Benzo(k)fluoranthene	252	8.486	8.498 (0.963)		3028	0.18488	20.2866(MH)
22 Benzo(a)pyrene	252	8.750	8.756 (0.993)		3570	0.22392	24.5708
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939 (1.127)		2672	0.17645	19.3620
26 Benzo(g,h,i)perylene	276	10.262	10.280 (1.165)		2053	0.13284	14.5760

QC Flag Legend

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

Data File: 1CD10021.D

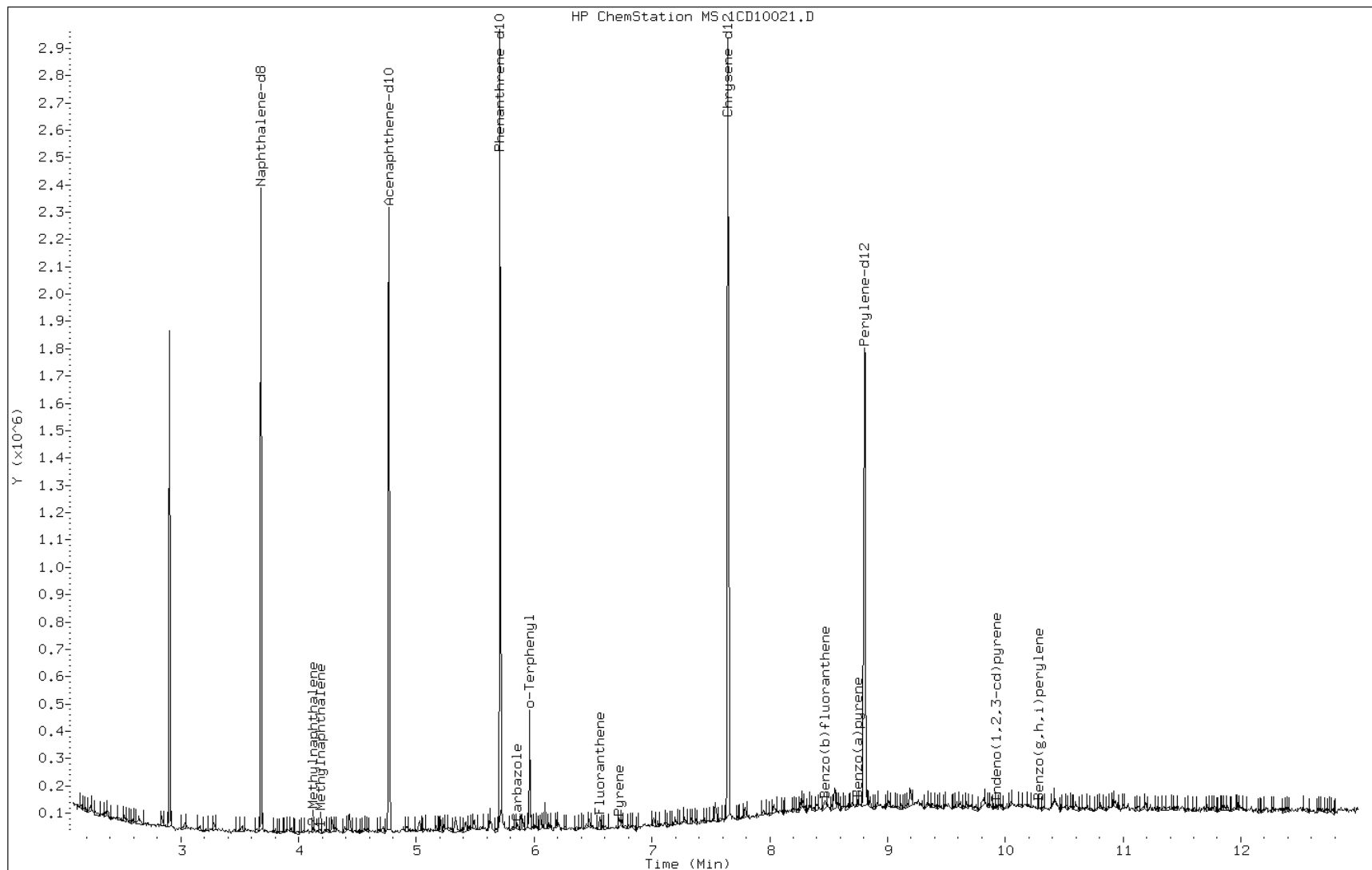
Date: 10-APR-2013 18:48

Client ID: CV0380A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-5-a

Operator: SCC



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

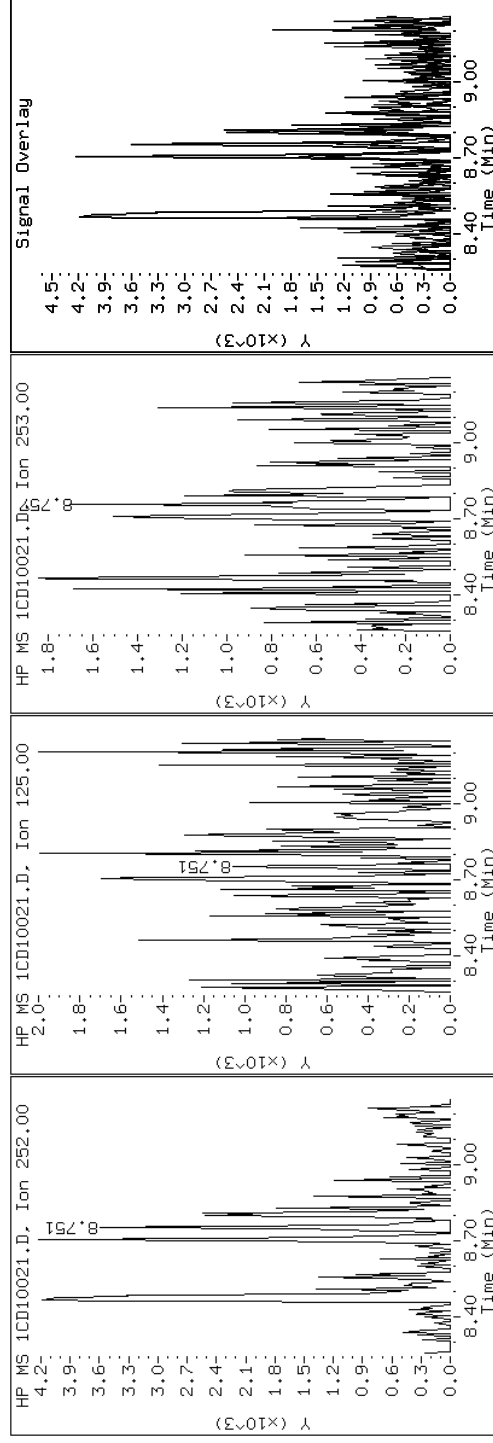
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

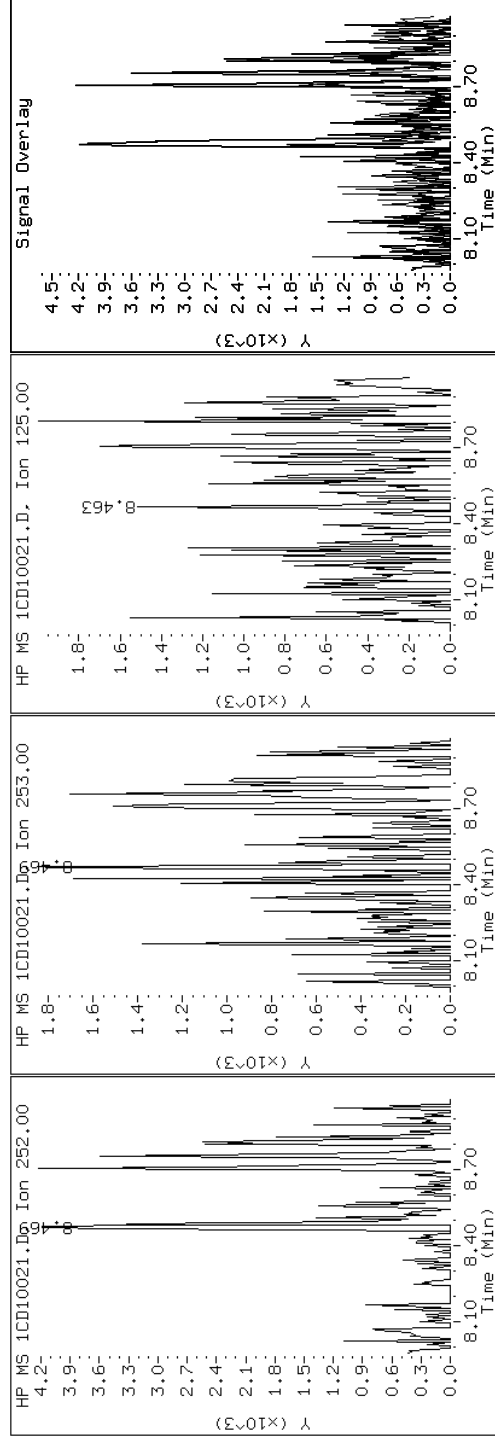
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

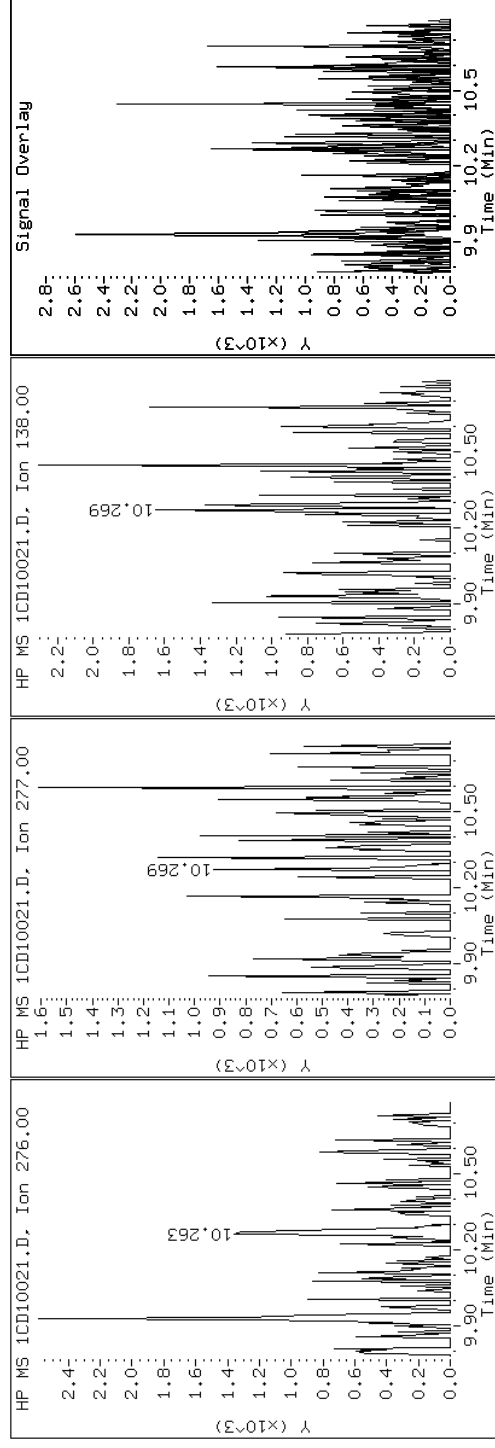
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

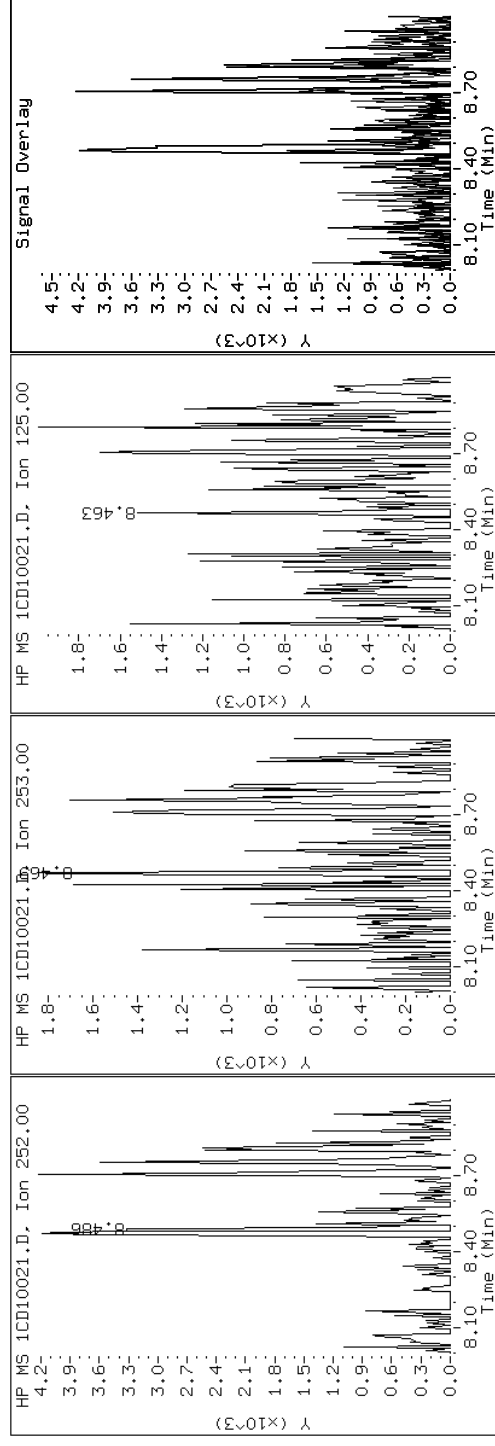
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

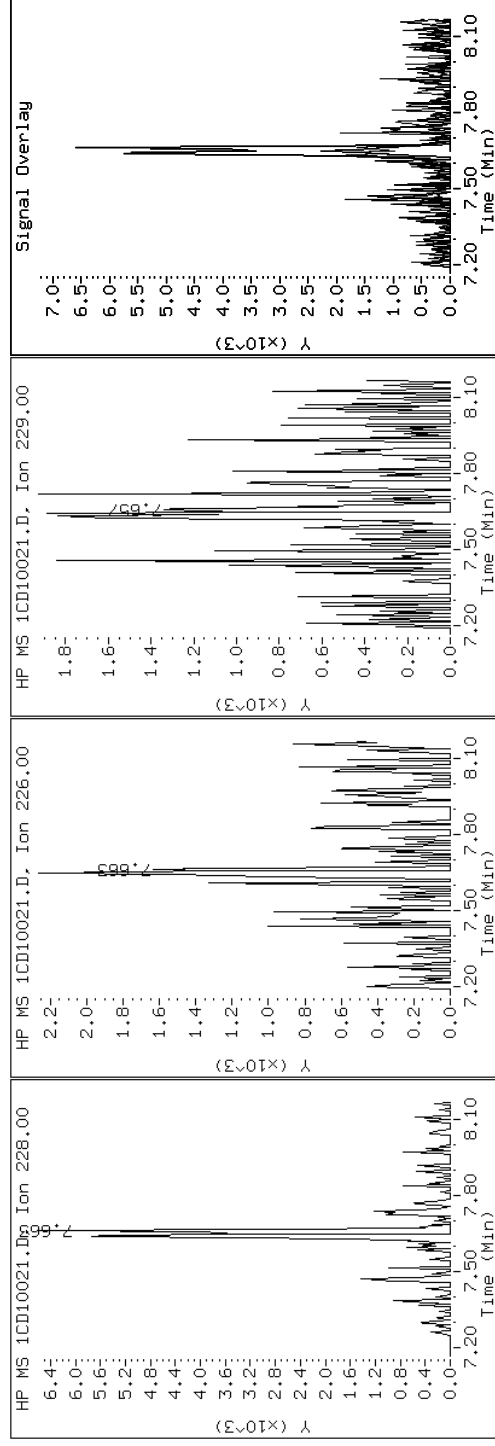
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

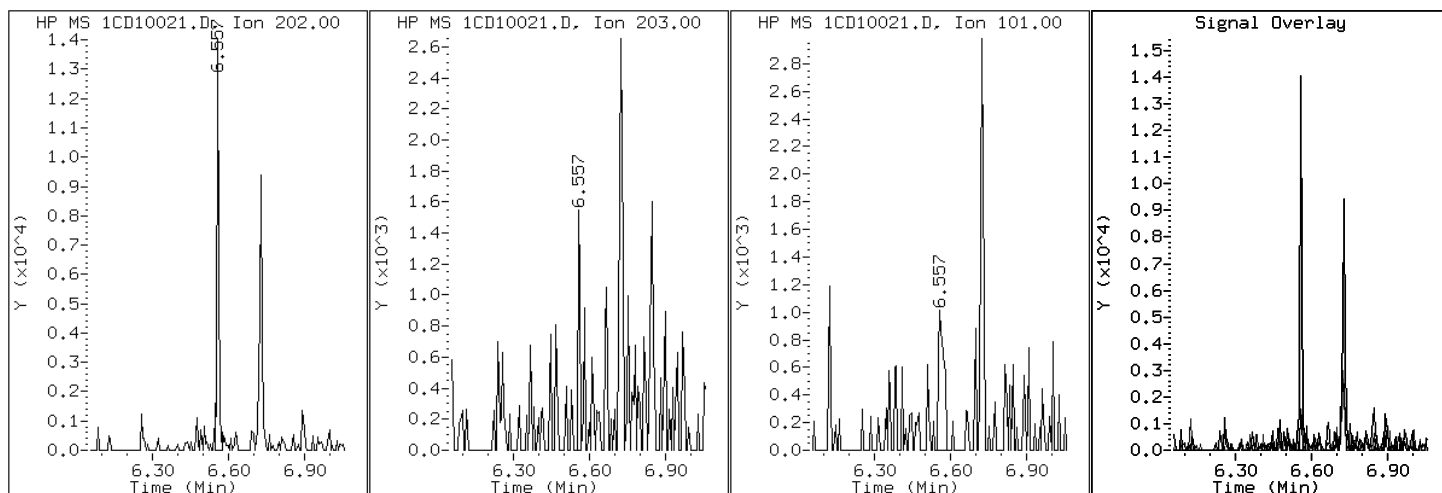
Client ID: CV0380A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

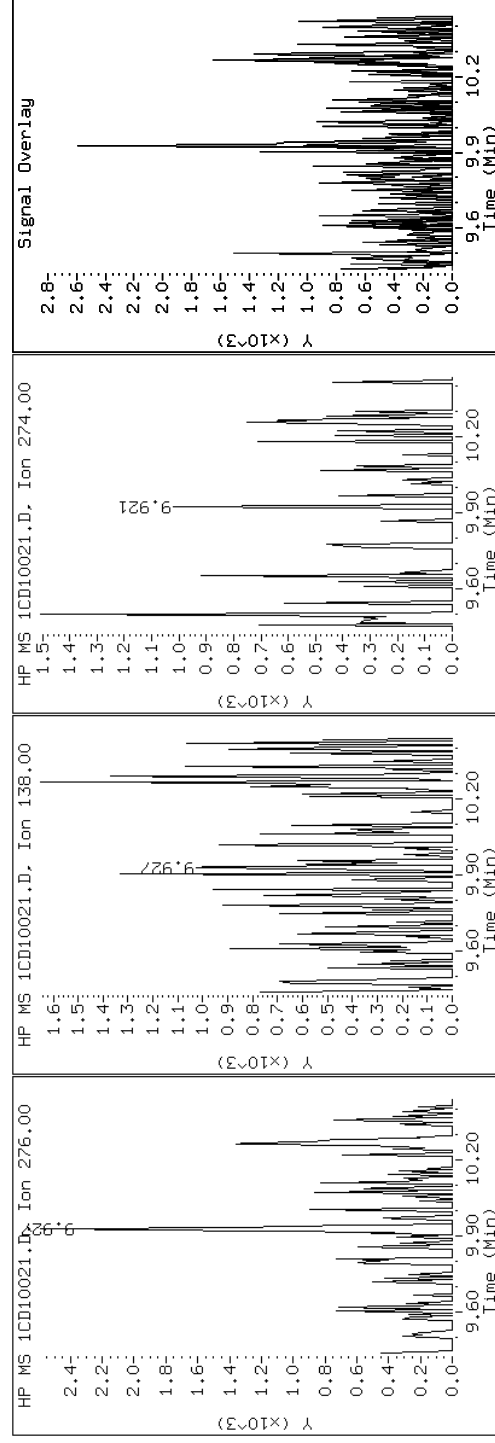
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

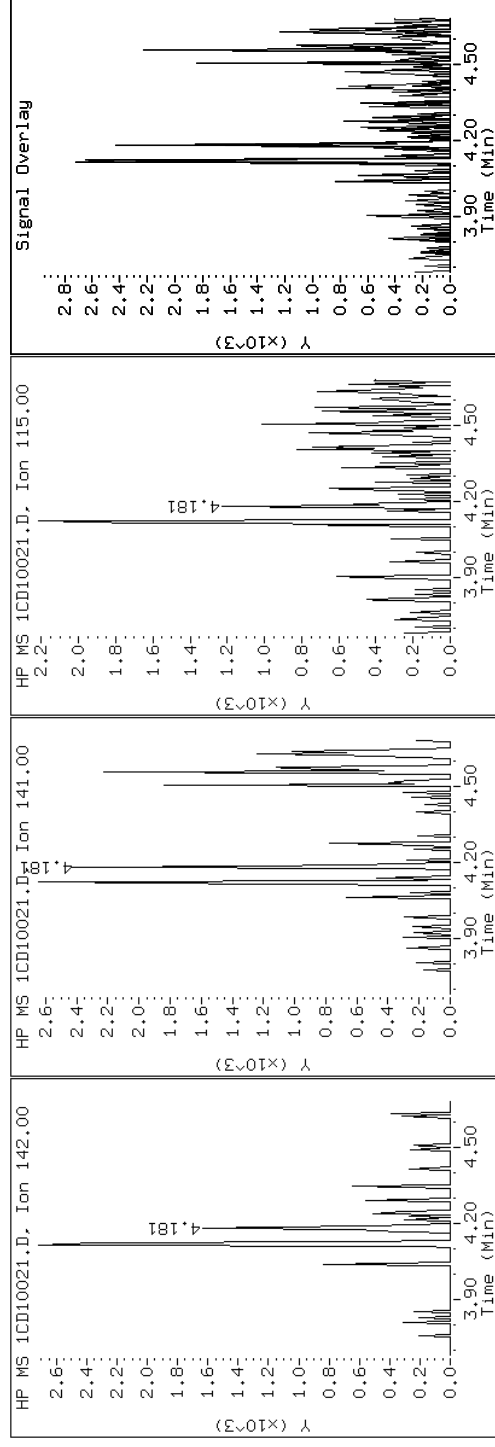
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

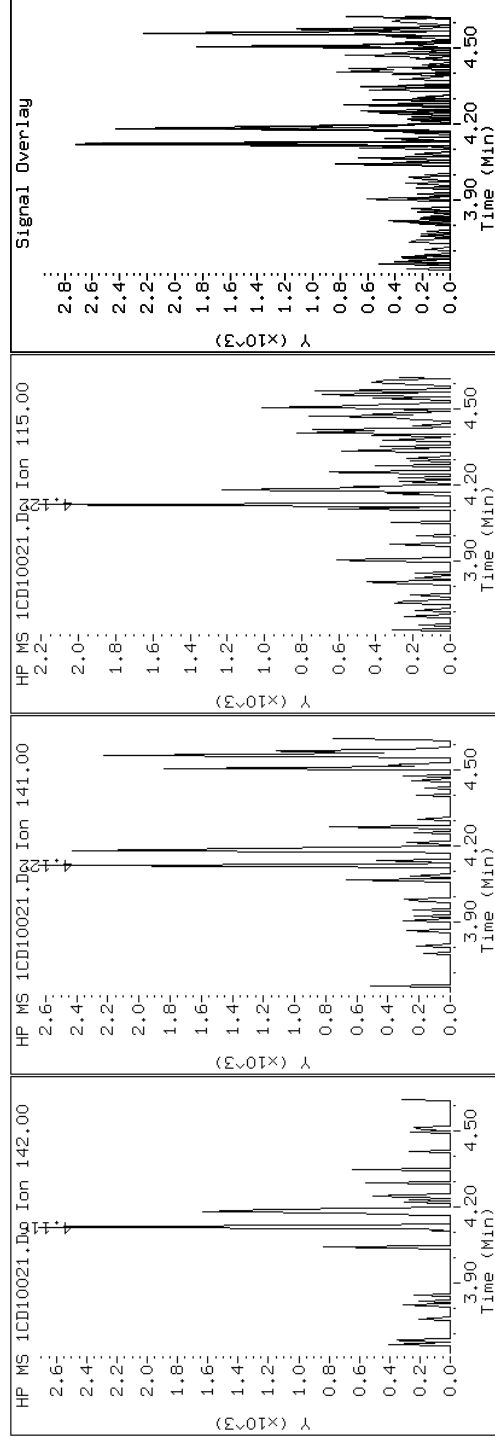
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

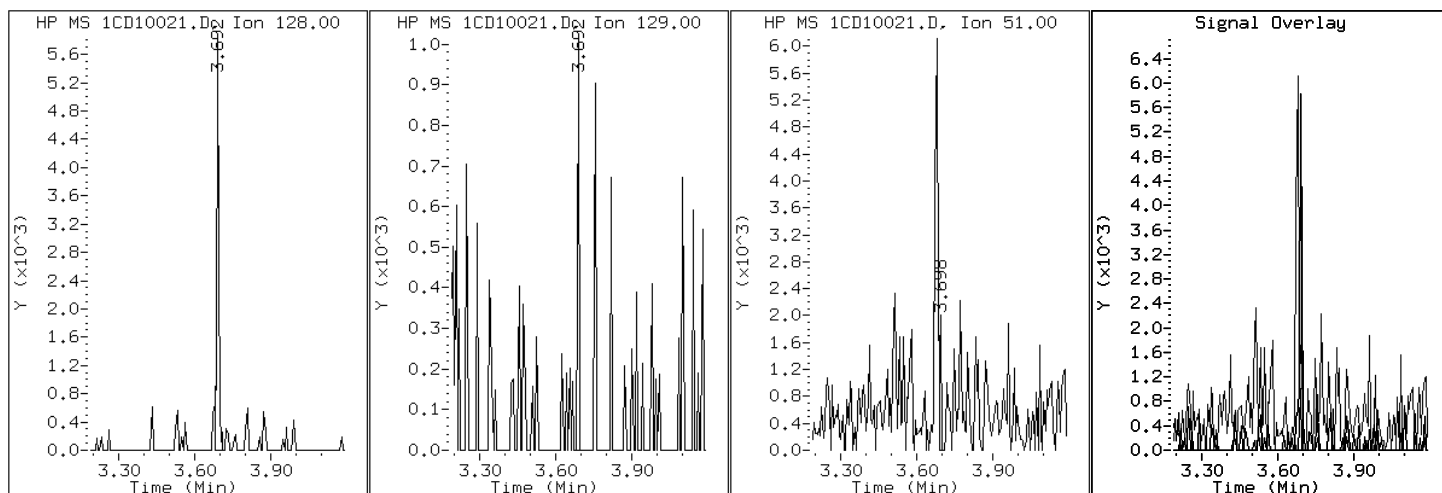
Client ID: CV0380A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

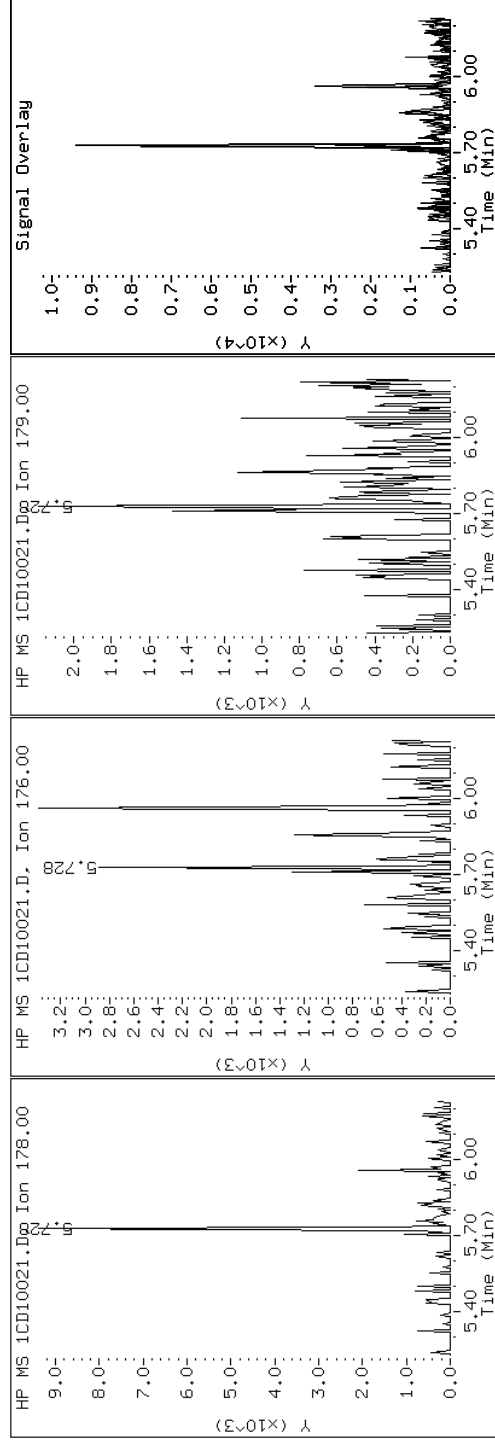
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10021.D

Date: 10-APR-2013 18:48

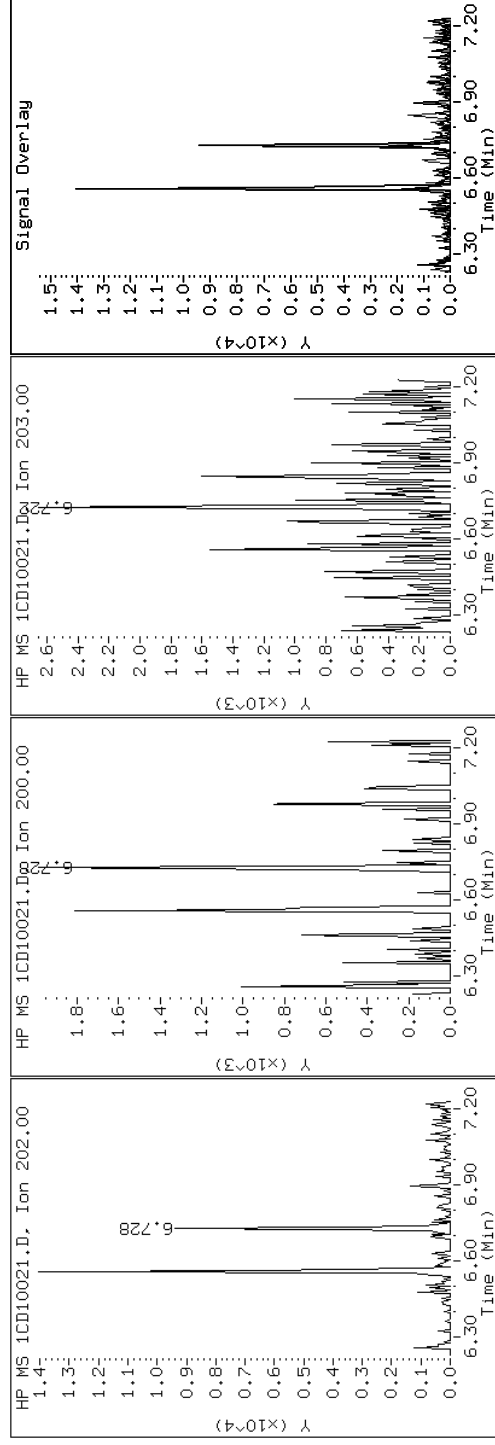
Client ID: CV0380A-CS

Sample Info: 680-88980-a-5-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

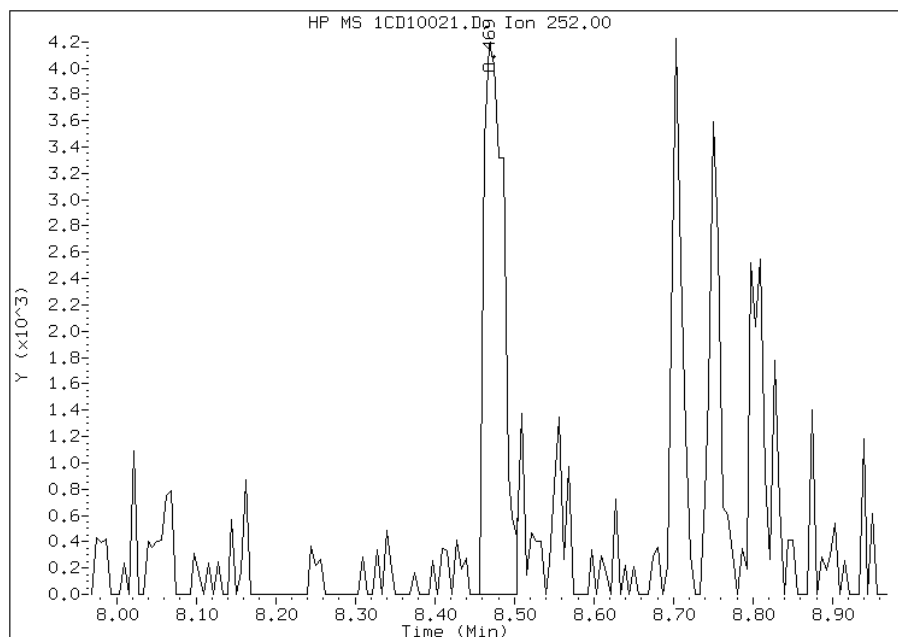


Manual Integration Report

Data File: 1CD10021.D
Inj. Date and Time: 10-APR-2013 18:48
Instrument ID: BSMC5973.i
Client ID: CV0380A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

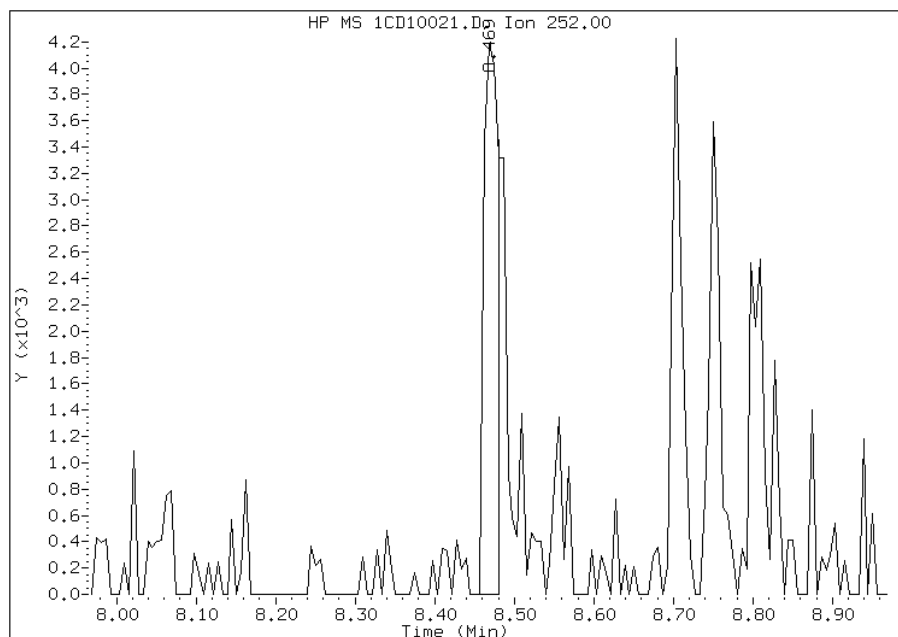
Processing Integration Results

RT: 8.47
Response: 7142
Amount: 0
Conc: 46



Manual Integration Results

RT: 8.47
Response: 5286
Amount: 0
Conc: 34



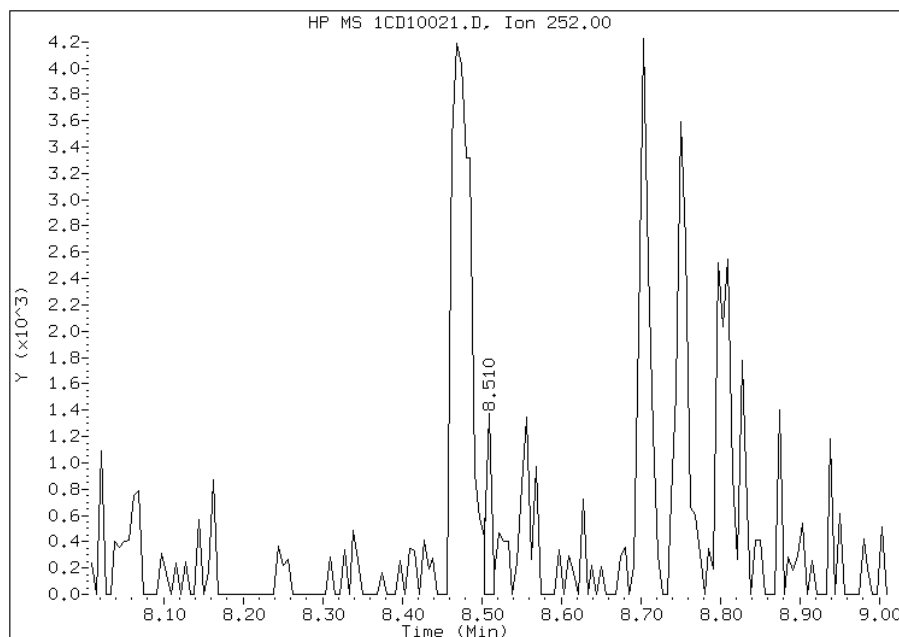
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10021.D
Inj. Date and Time: 10-APR-2013 18:48
Instrument ID: BSMC5973.i
Client ID: CV0380A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

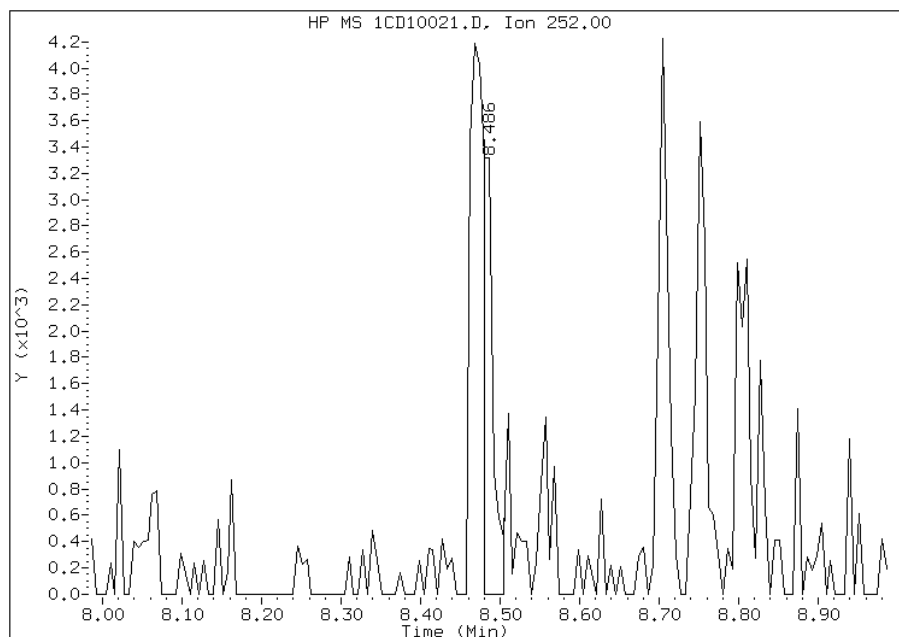
Processing Integration Results

RT: 8.51
Response: 692
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.49
Response: 3028
Amount: 0
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:54
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0380B-CS</u>	Lab Sample ID: <u>680-88980-6</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10022.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:48</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>14.95(g)</u>	Date Analyzed: <u>04/10/2013 19:06</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>42.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	35
208-96-8	Acenaphthylene	70	U	70	8.8
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	15	J	18	9.1
205-99-2	Benzo[b]fluoranthene	13	J	21	11
191-24-2	Benzo[g,h,i]perylene	35	U	35	7.7
207-08-9	Benzo[k]fluoranthene	16		14	6.3
218-01-9	Chrysene	23		16	7.9
53-70-3	Dibenz(a,h)anthracene	35	U	35	7.2
206-44-0	Fluoranthene	19	J	35	7.0
86-73-7	Fluorene	35	U	35	7.2
193-39-5	Indeno[1,2,3-cd]pyrene	35	U	35	12
90-12-0	1-Methylnaphthalene	14	J	70	7.7
91-57-6	2-Methylnaphthalene	70	U	70	12
91-20-3	Naphthalene	17	J	70	7.7
85-01-8	Phenanthrene	19		14	6.9
129-00-0	Pyrene	20	J	35	6.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10022.D
 Lab Smp Id: 680-88980-A-6-A Client Smp ID: CV0380B-CS
 Inj Date : 10-APR-2013 19:06
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88980-a-6-a
 Misc Info : 680-88980-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
 Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	42.949	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		362932	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		259595	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		503853	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		49703	6.76897	793.6256
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		604353	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		578394	40.0000	
2 Naphthalene	128		3.698	3.692	(1.005)		1387	0.14879	17.4449(Q)
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		686	0.12015	14.0864
11 Phenanthrene	178		5.721	5.727	(1.002)		2418	0.16478	19.3190
15 Fluoranthene	202		6.557	6.557	(1.148)		2674	0.16500	19.3452
16 Pyrene	202		6.721	6.727	(0.879)		2923	0.17460	20.4710
19 Chrysene	228		7.657	7.668	(1.002)		3450	0.20033	23.4878(Q)
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.961)		1750	0.10702	12.5478(Q)
21 Benzo(k)fluoranthene	252		8.480	8.498	(0.963)		2095	0.13247	15.5312(Q)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
22 Benzo(a)pyrene	252	8.745	8.756	(0.993)	1989	0.12920	15.1480(QM)

QC Flag Legend

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

Data File: 1CD10022.D

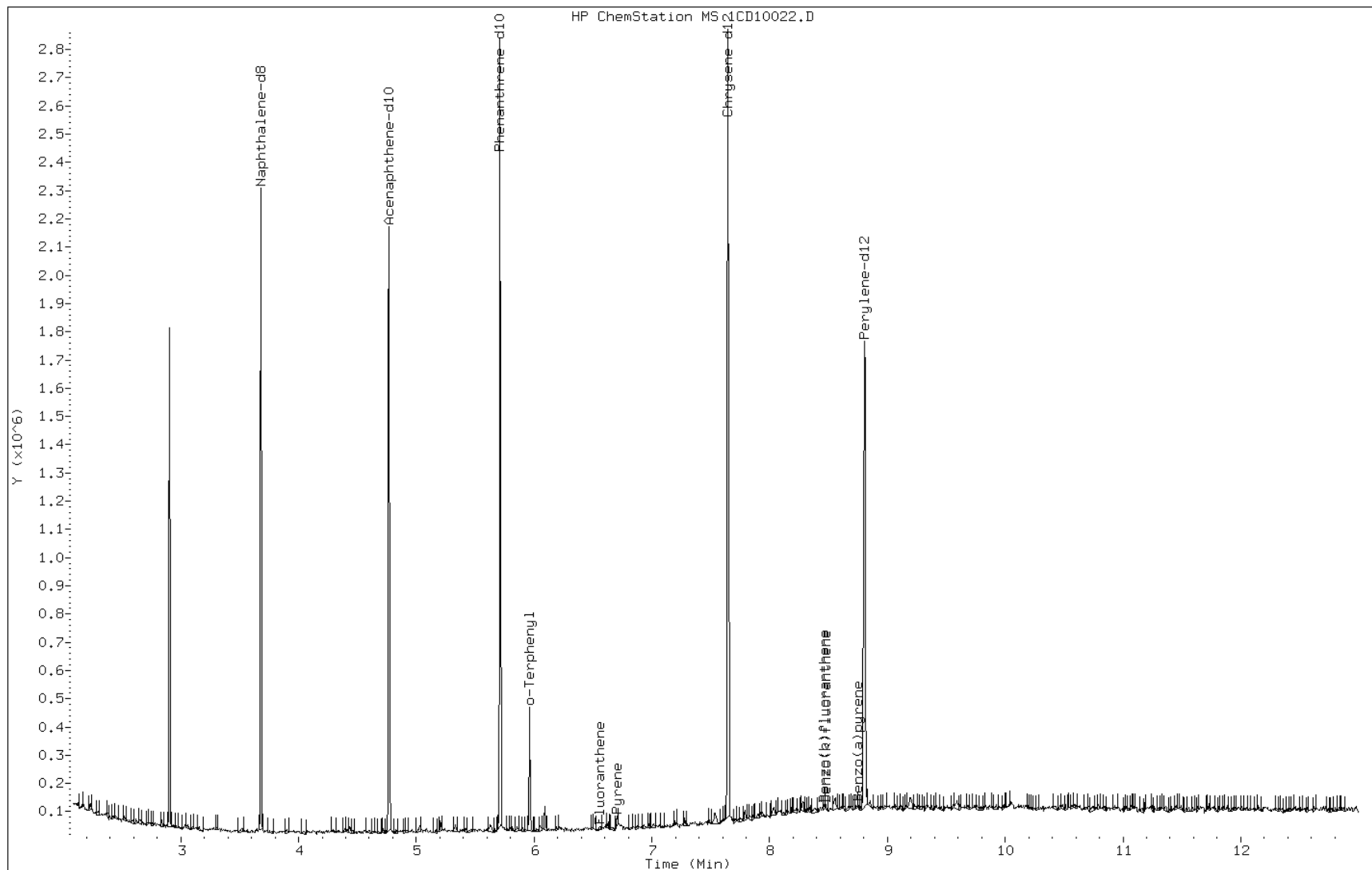
Date: 10-APR-2013 19:06

Client ID: CV0380B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-6-a

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

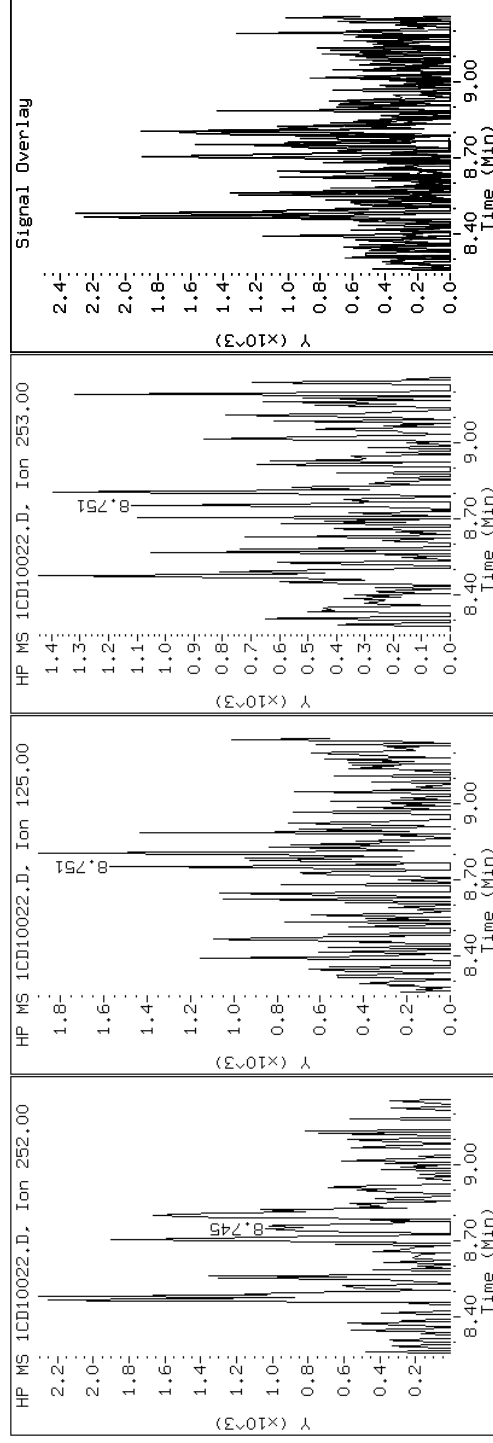
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

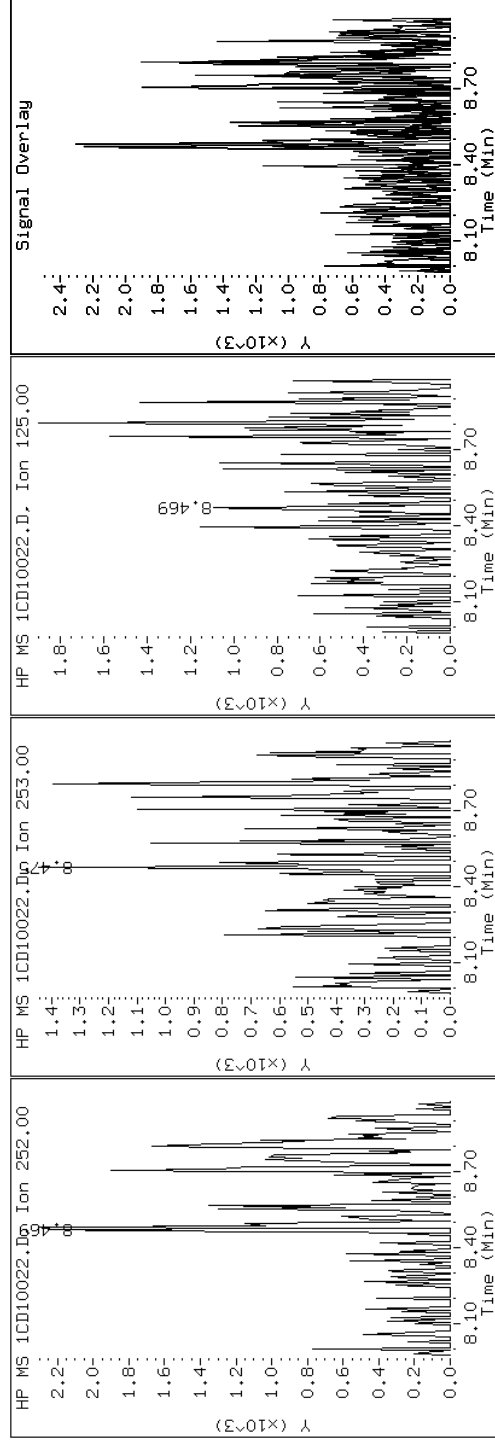
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

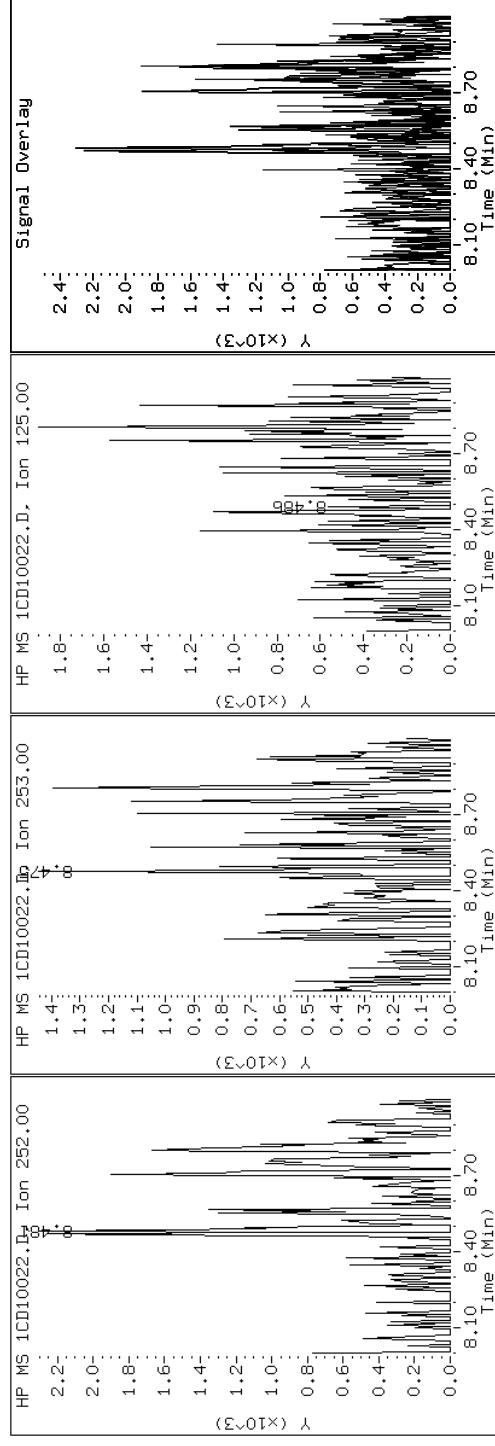
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

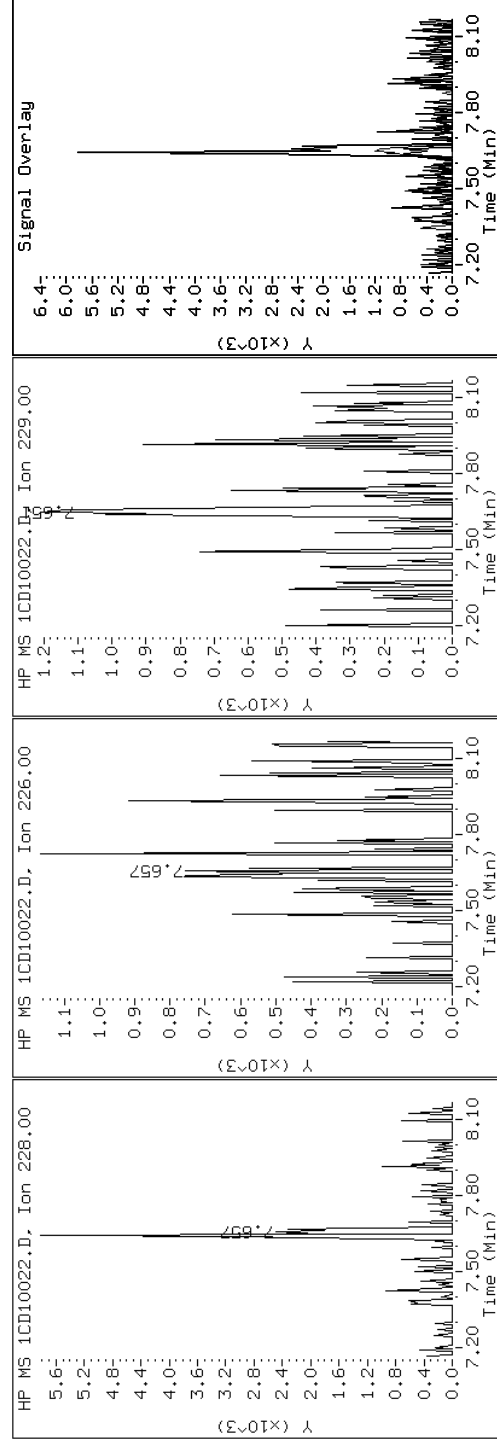
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

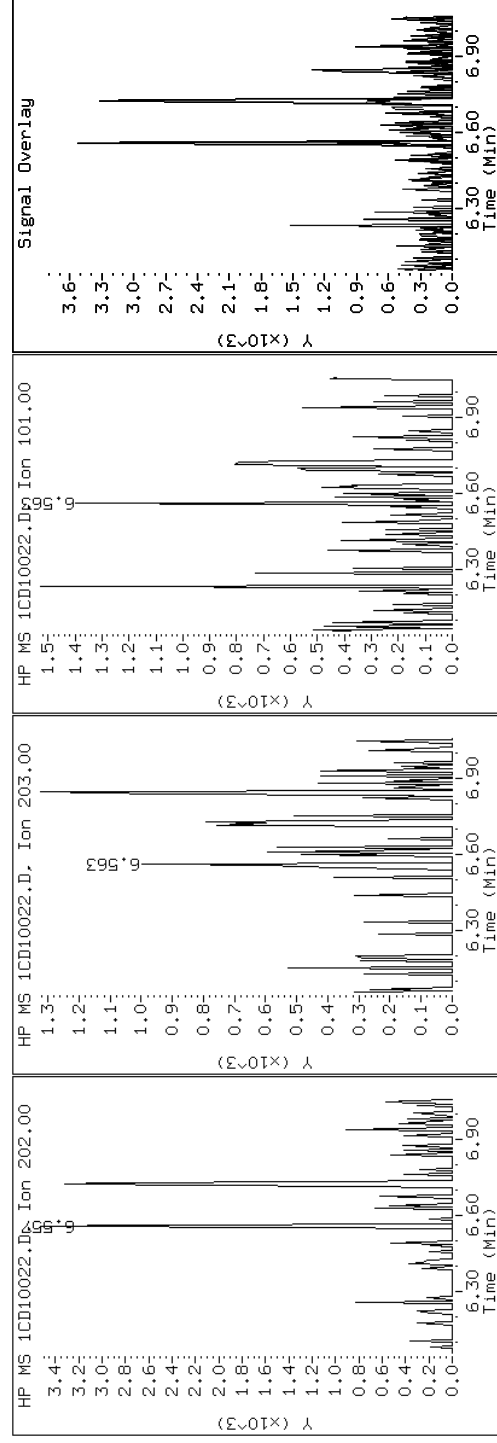
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

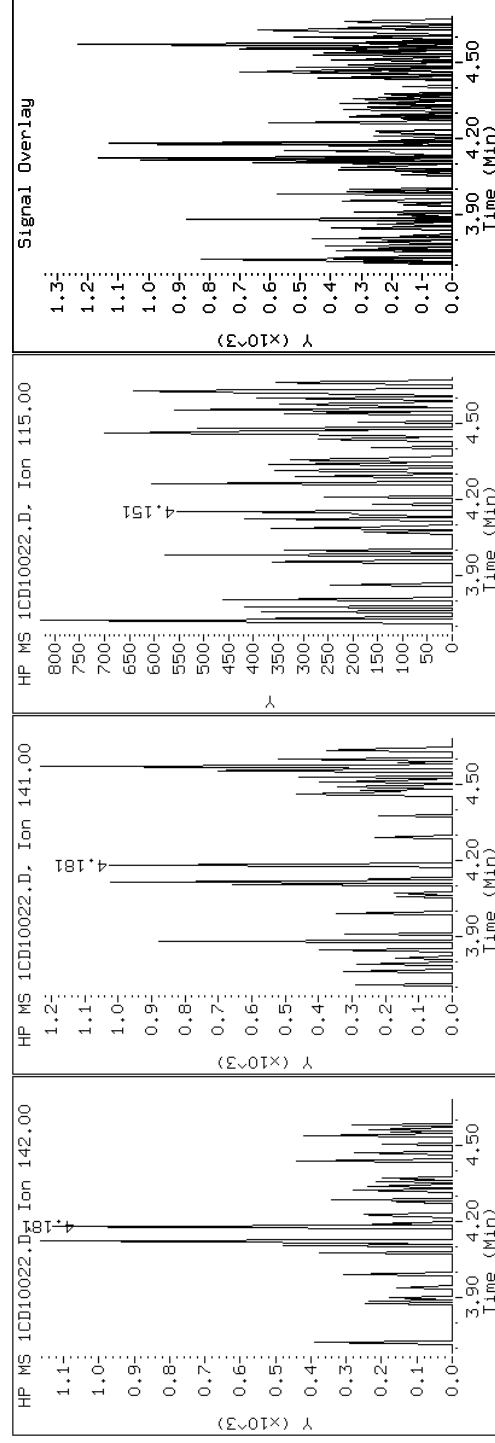
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

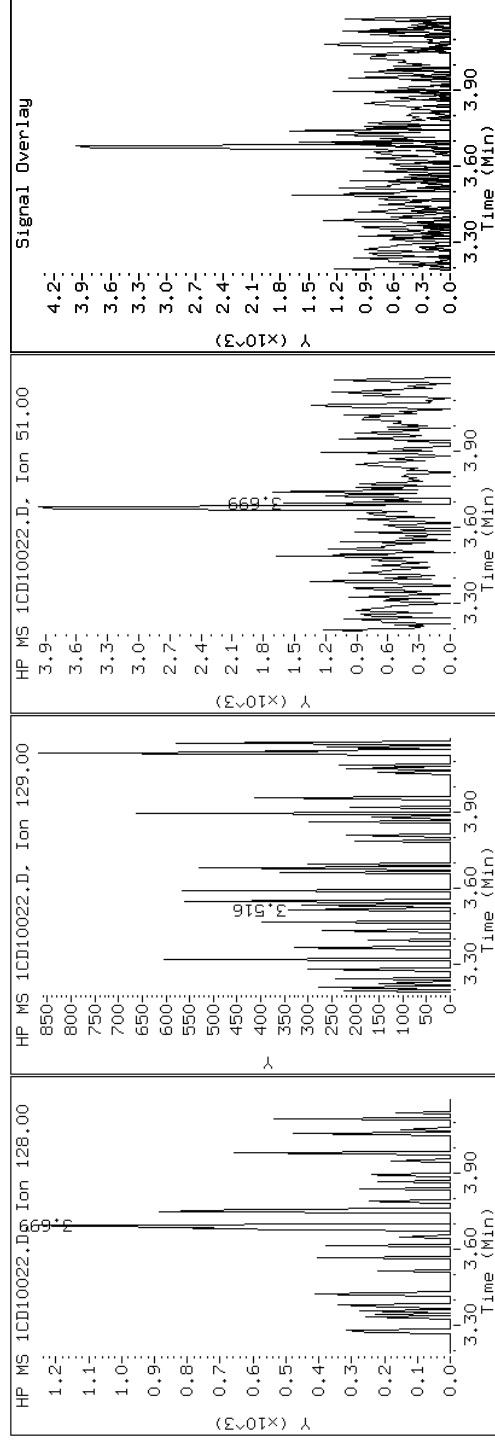
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

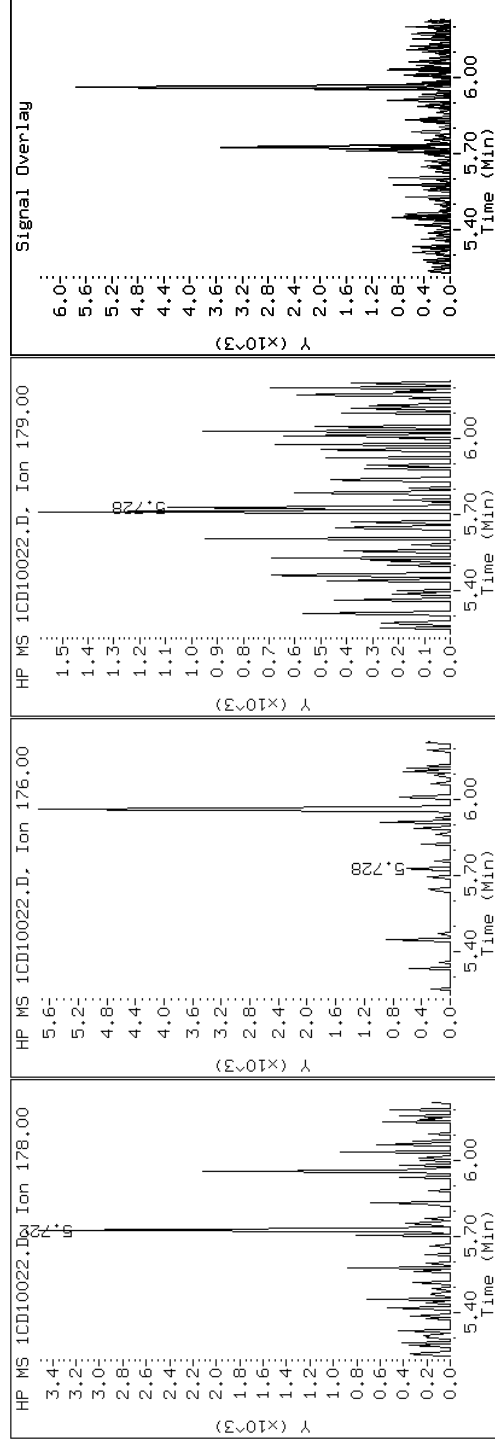
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

11 Phenanthrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10022.D

Date: 10-APR-2013 19:06

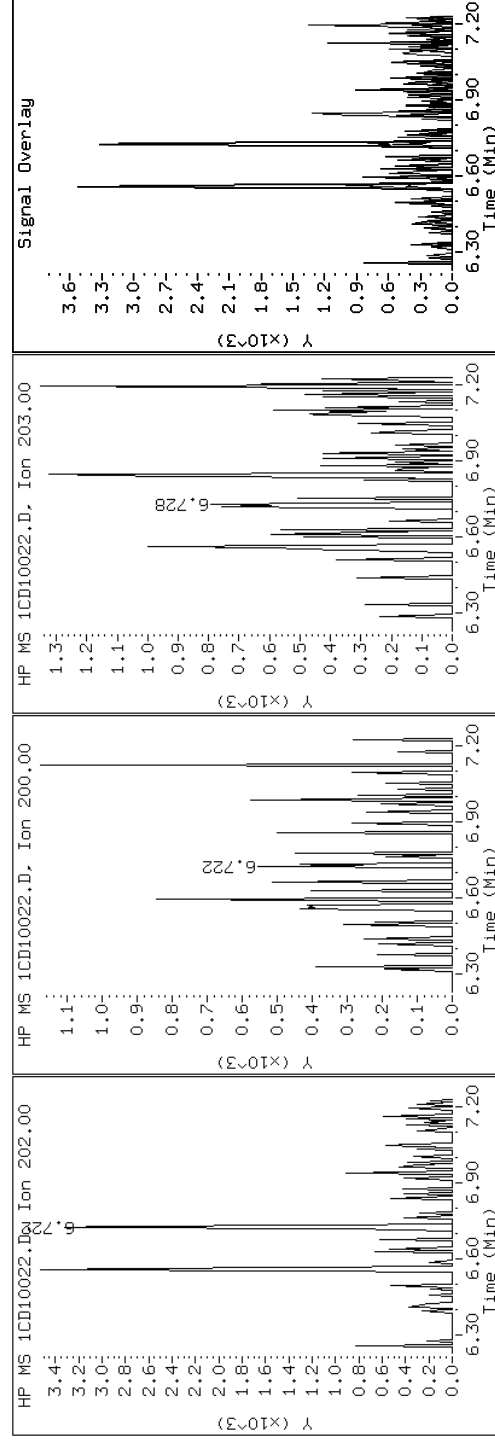
Client ID: CV0380B-CS

Sample Info: 680-88980-a-6-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

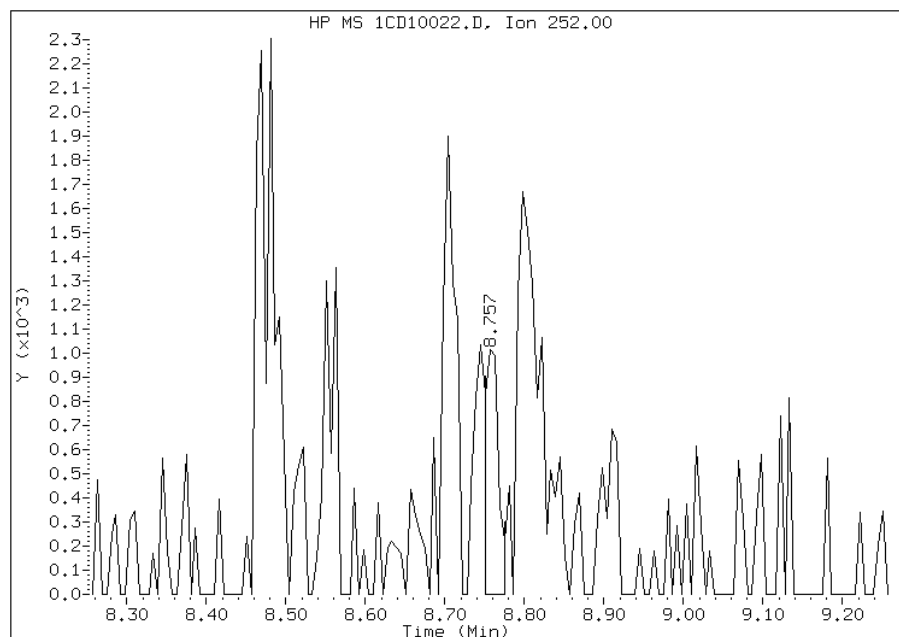


Manual Integration Report

Data File: 1CD10022.D
Inj. Date and Time: 10-APR-2013 19:06
Instrument ID: BSMC5973.i
Client ID: CV0380B-CS
Compound: 22 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 04/11/2013

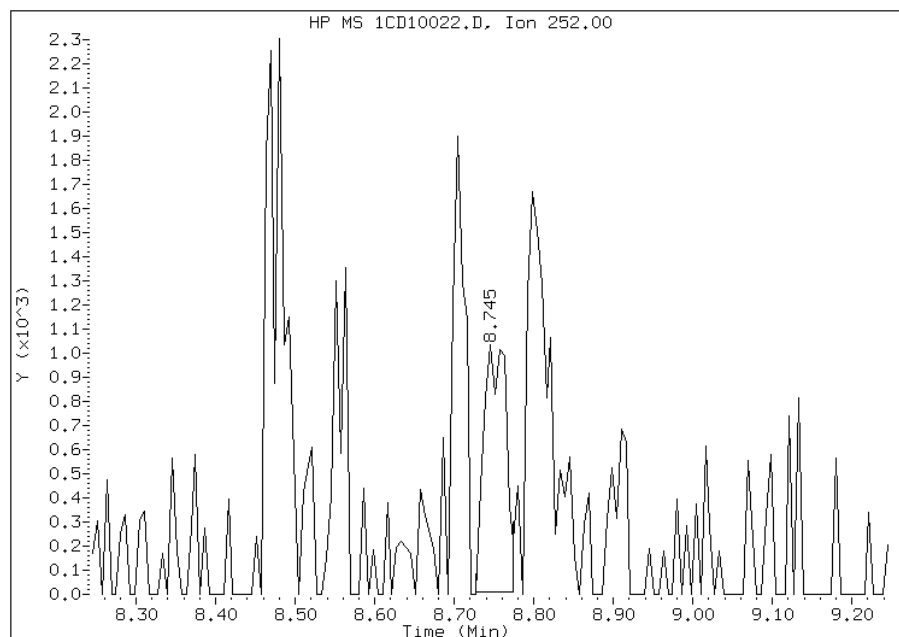
Processing Integration Results

RT: 8.76
Response: 1210
Amount: 0
Conc: 9



Manual Integration Results

RT: 8.75
Response: 1989
Amount: 0
Conc: 15



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:57
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0666A-CS</u>	Lab Sample ID: <u>680-88980-7</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10023.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.32(g)</u>	Date Analyzed: <u>04/10/2013 19:25</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>45.3</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	36
208-96-8	Acenaphthylene	72	U	72	9.0
120-12-7	Anthracene	15	U	15	7.5
56-55-3	Benzo[a]anthracene	14	U	14	7.0
50-32-8	Benzo[a]pyrene	15	J	19	9.3
205-99-2	Benzo[b]fluoranthene	30		22	11
191-24-2	Benzo[g,h,i]perylene	26	J	36	7.9
207-08-9	Benzo[k]fluoranthene	7.9	J	14	6.4
218-01-9	Chrysene	23		16	8.1
53-70-3	Dibenz(a,h)anthracene	36	U	36	7.3
206-44-0	Fluoranthene	33	J	36	7.2
86-73-7	Fluorene	36	U	36	7.3
193-39-5	Indeno[1,2,3-cd]pyrene	36	U	36	13
90-12-0	1-Methylnaphthalene	22	J	72	7.9
91-57-6	2-Methylnaphthalene	27	J	72	13
91-20-3	Naphthalene	24	J	72	7.9
85-01-8	Phenanthrene	35		14	7.0
129-00-0	Pyrene	37		36	6.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10023.D
Lab Smp Id: 680-88980-A-7-A Client Smp ID: CV0666A-CS
Inj Date : 10-APR-2013 19:25
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-7-a
Misc Info : 680-88980-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10023.D
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	45.342	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		396528	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		300860	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		548696	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		45351	5.78911	691.3477
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		608617	40.0000	
* 23 Perylene-d12	264		8.804	8.809	(1.000)		579727	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		2060	0.20226	24.1547(Q)
3 2-Methylnaphthalene	142		4.122	4.121	(1.120)		1559	0.22487	26.8543
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		1163	0.18643	22.2638
11 Phenanthrene	178		5.727	5.727	(1.003)		4632	0.28985	34.6146
15 Fluoranthene	202		6.557	6.557	(1.148)		4830	0.27368	32.6830
16 Pyrene	202		6.727	6.727	(0.880)		5253	0.31158	37.2096
19 Chrysene	228		7.662	7.668	(1.002)		3324	0.19166	22.8888
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.962)		4151	0.25327	30.2464(M)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.965)	1052	0.06637	7.9255(M)
22 Benzo(a)pyrene	252	8.751	8.756	(0.994)	1962	0.12715	15.1848(Q)
26 Benzo(g,h,i)perylene	276	10.251	10.280	(1.164)	3216	0.21500	25.6760(M)

QC Flag Legend

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

Data File: 1CD10023.D

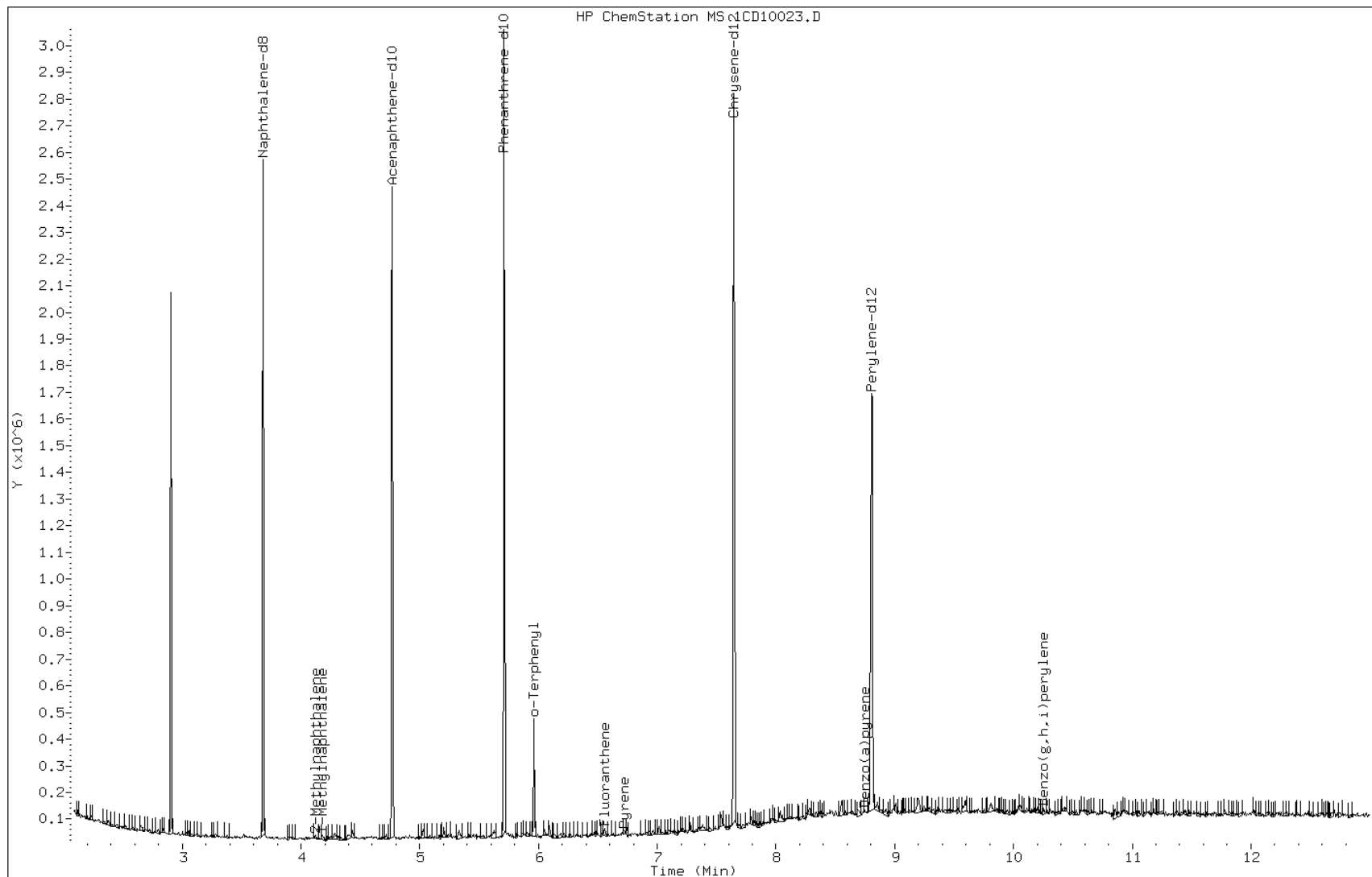
Date: 10-APR-2013 19:25

Client ID: CV0666A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-7-a

Operator: SCC



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

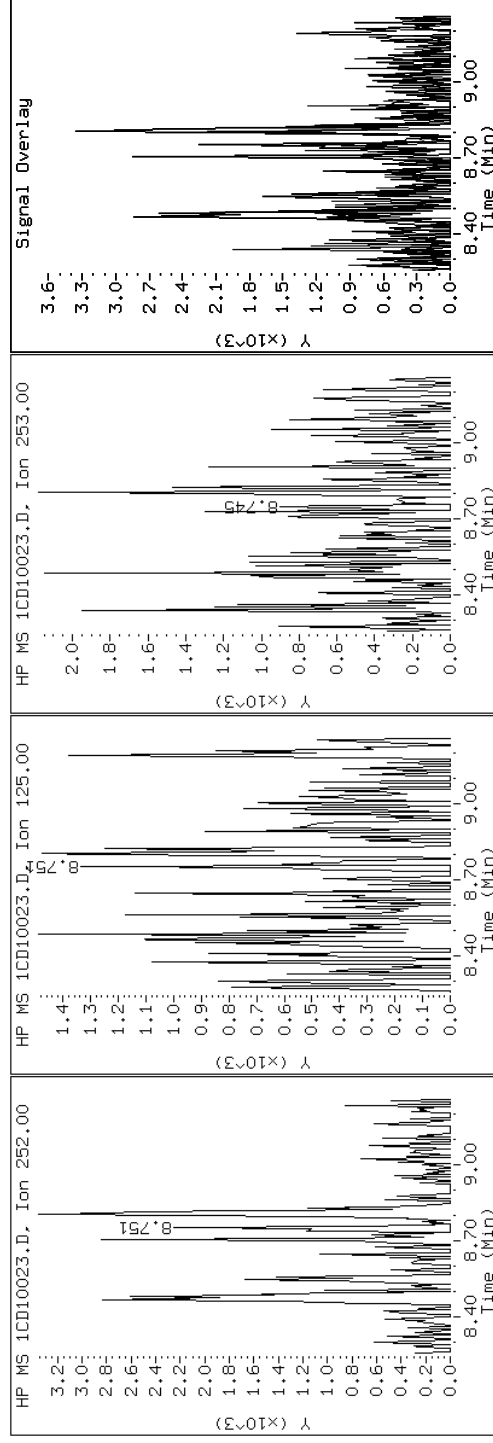
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

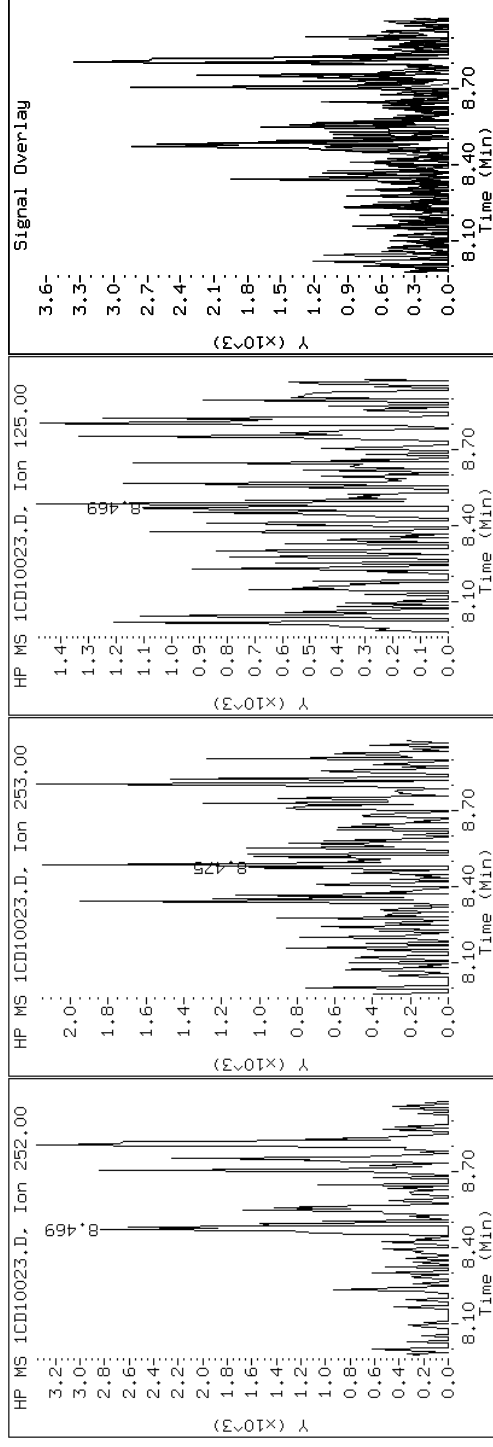
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

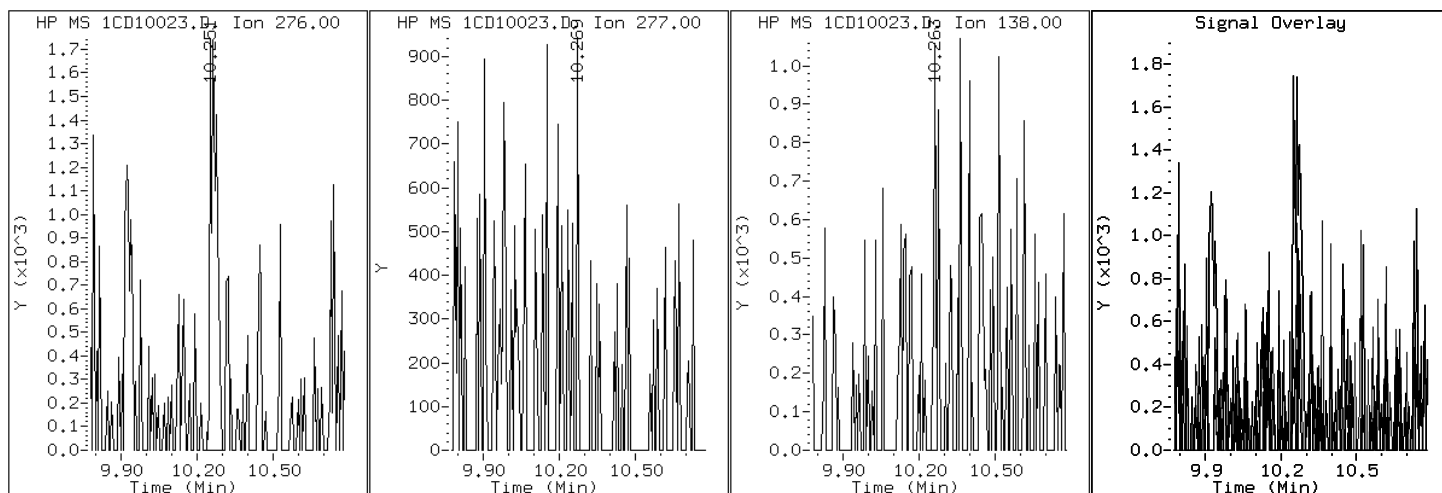
Client ID: CV0666A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

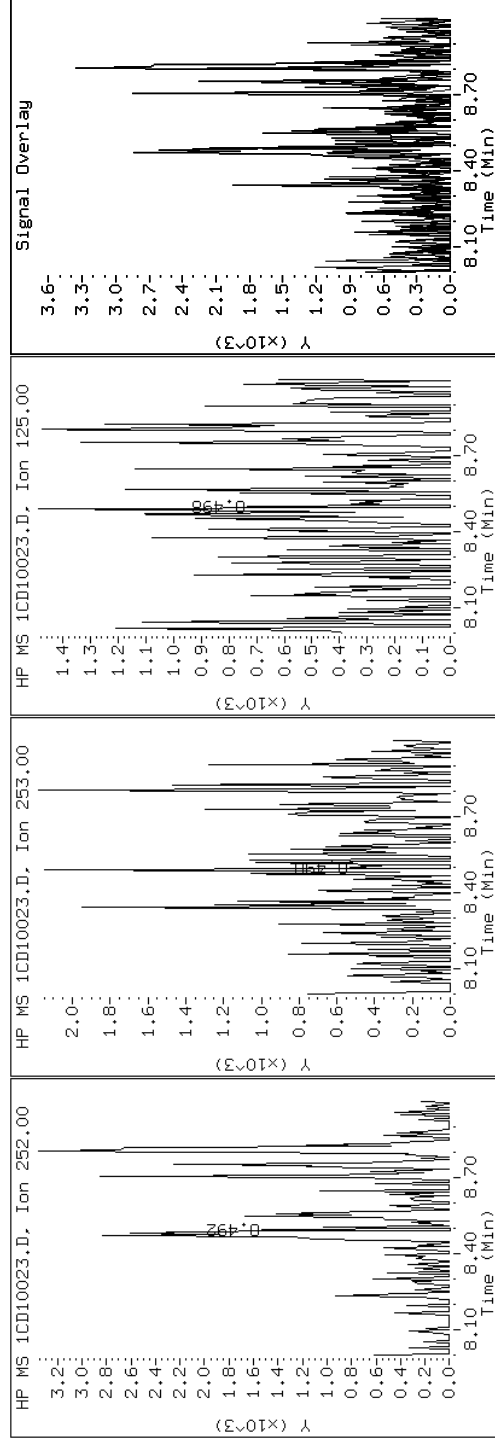
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

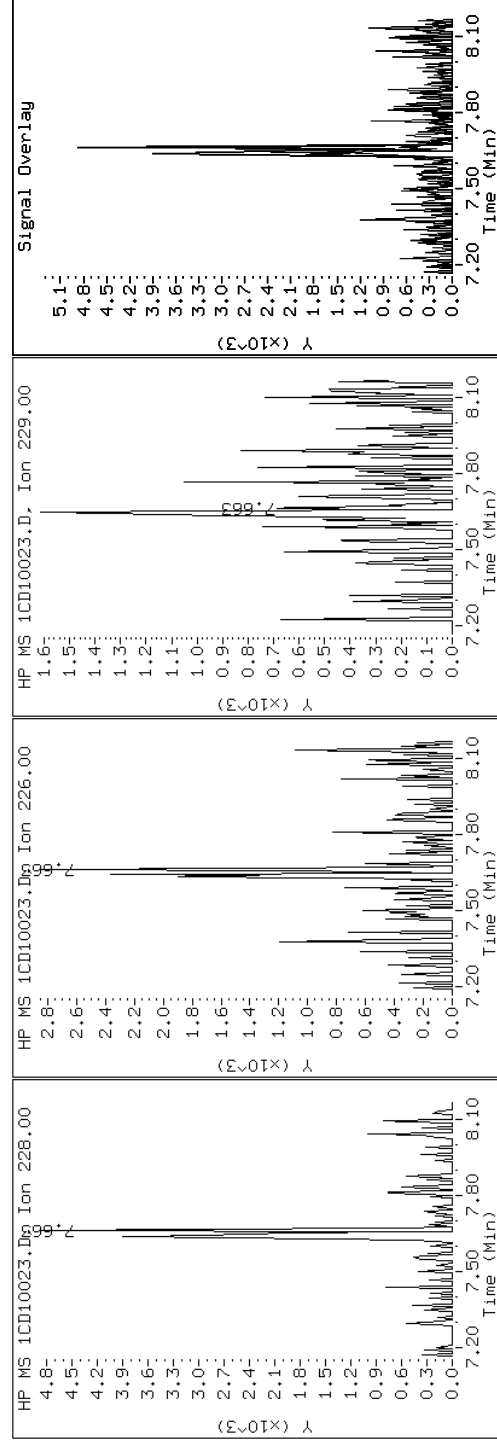
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

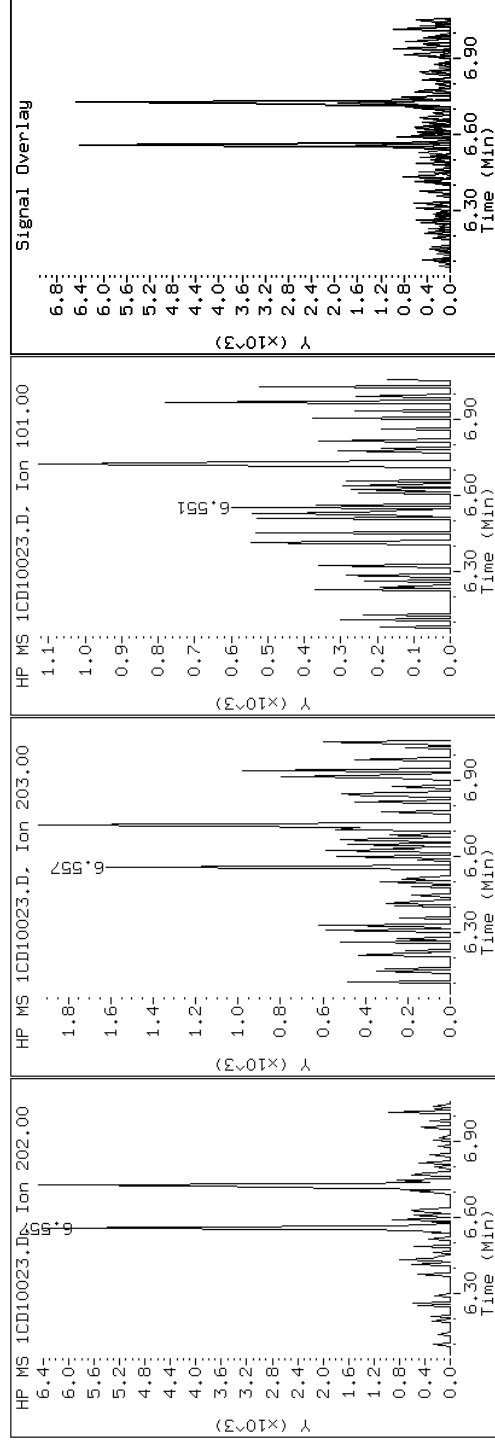
Client ID: CV0666A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

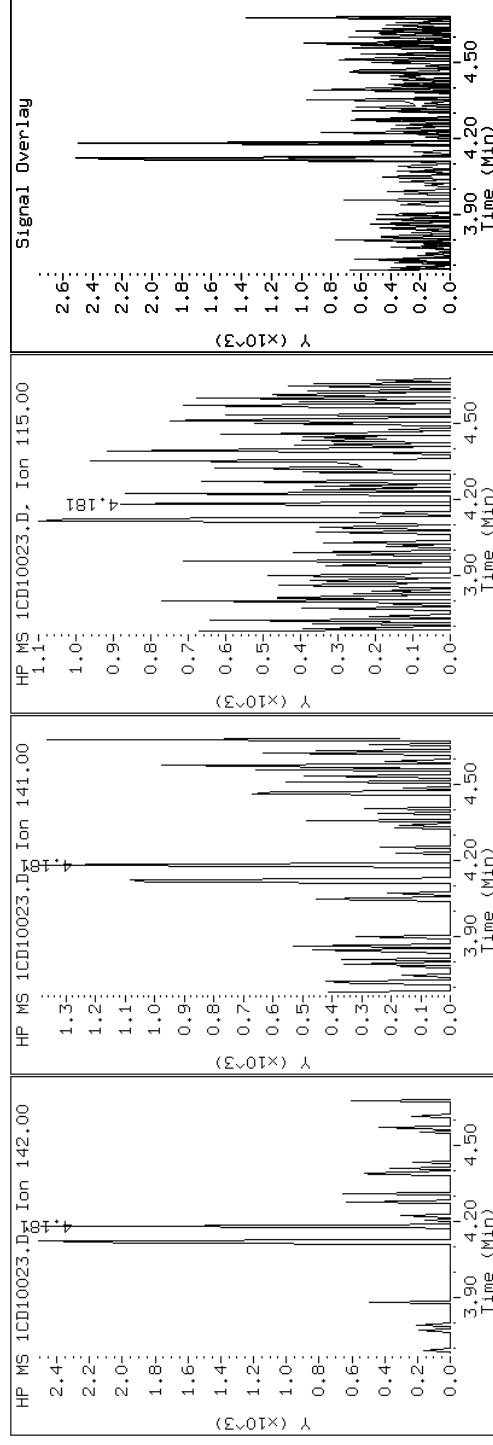
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

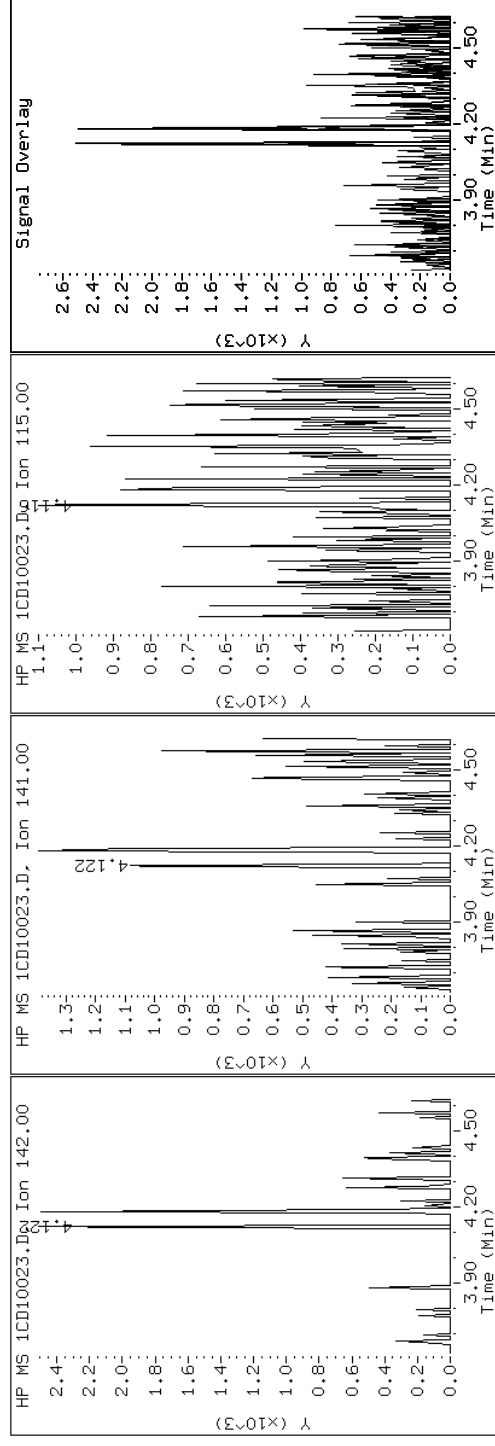
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

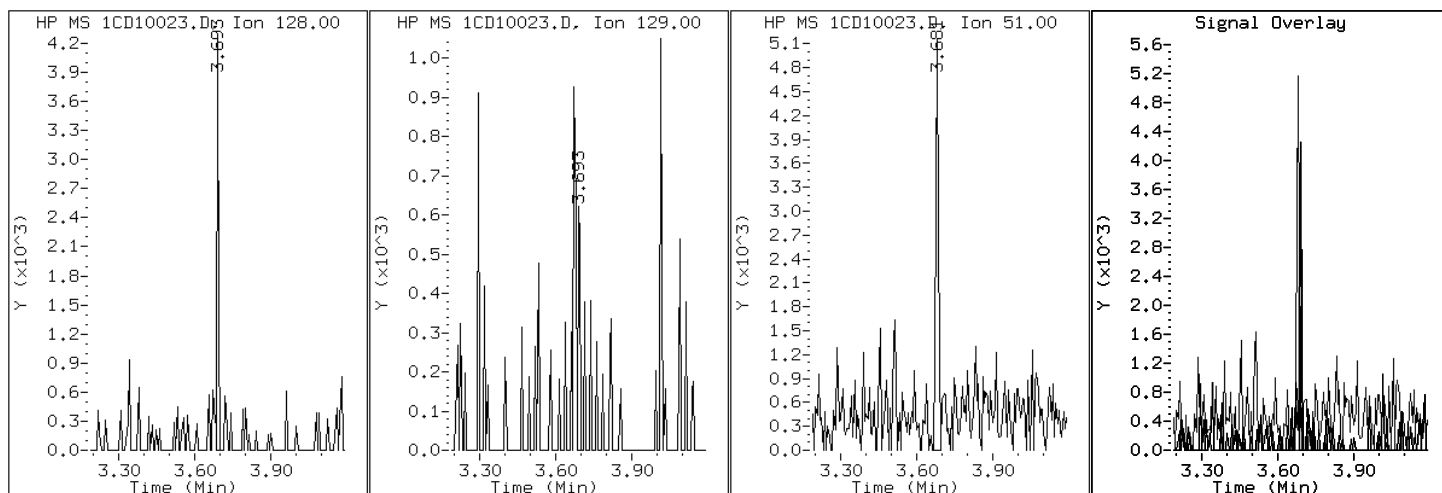
Client ID: CV0666A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

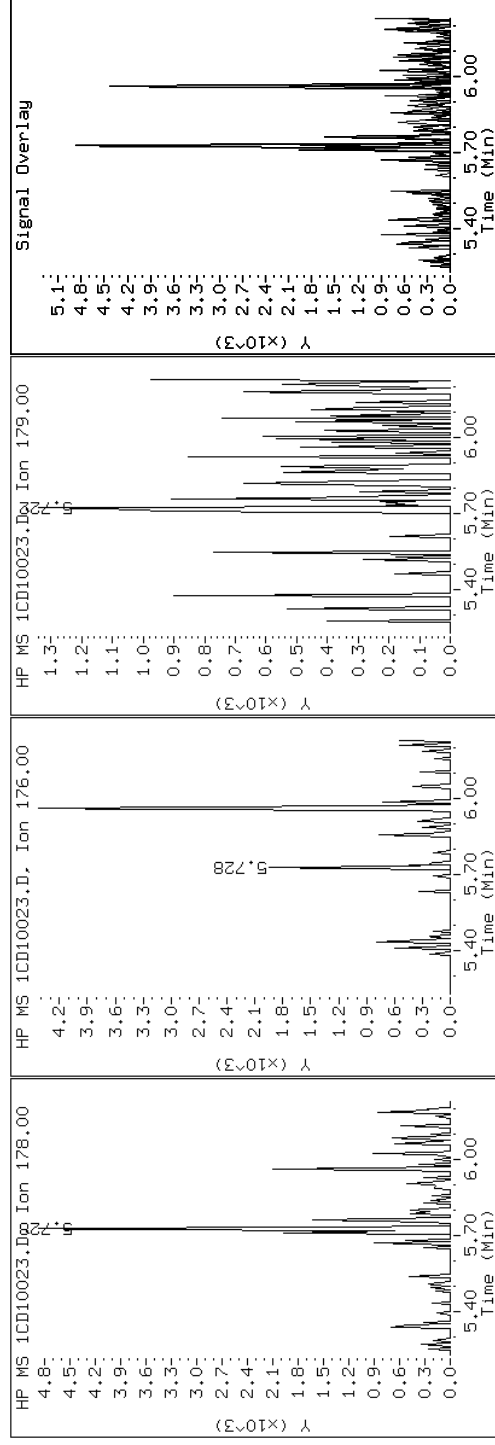
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

11 Phenanthrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10023.D

Date: 10-APR-2013 19:25

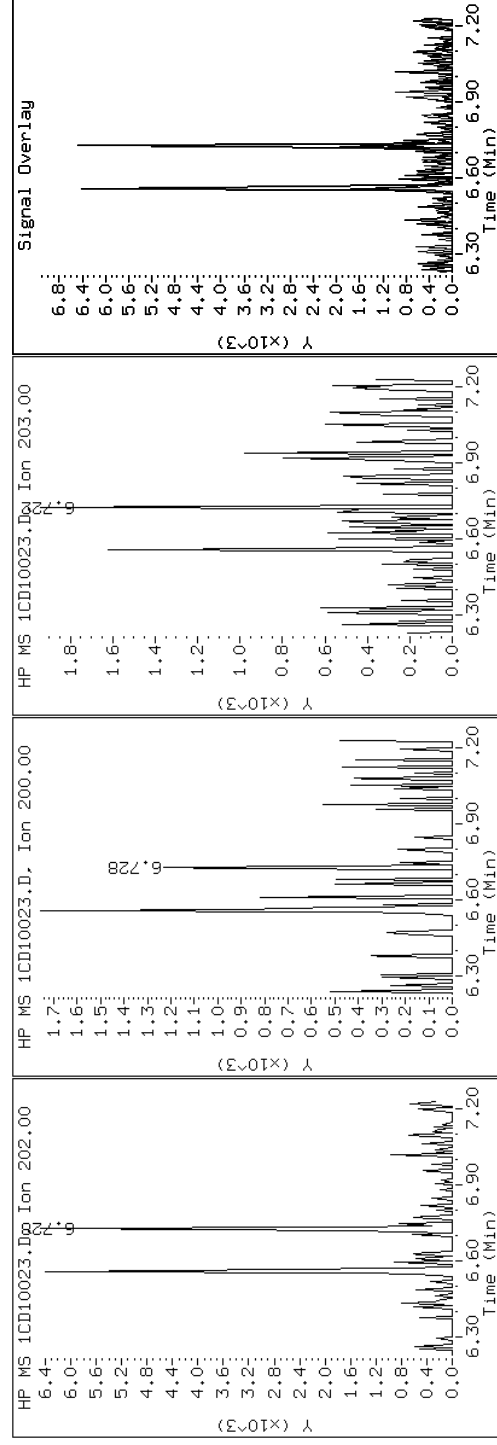
Client ID: CV0666A-CS

Sample Info: 680-88980-a-7-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

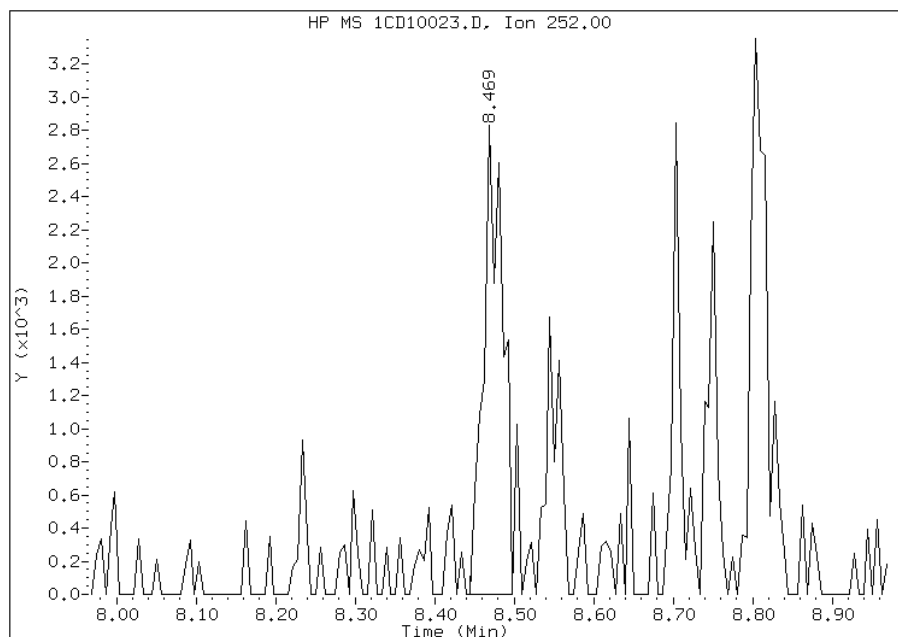


Manual Integration Report

Data File: 1CD10023.D
Inj. Date and Time: 10-APR-2013 19:25
Instrument ID: BSMC5973.i
Client ID: CV0666A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

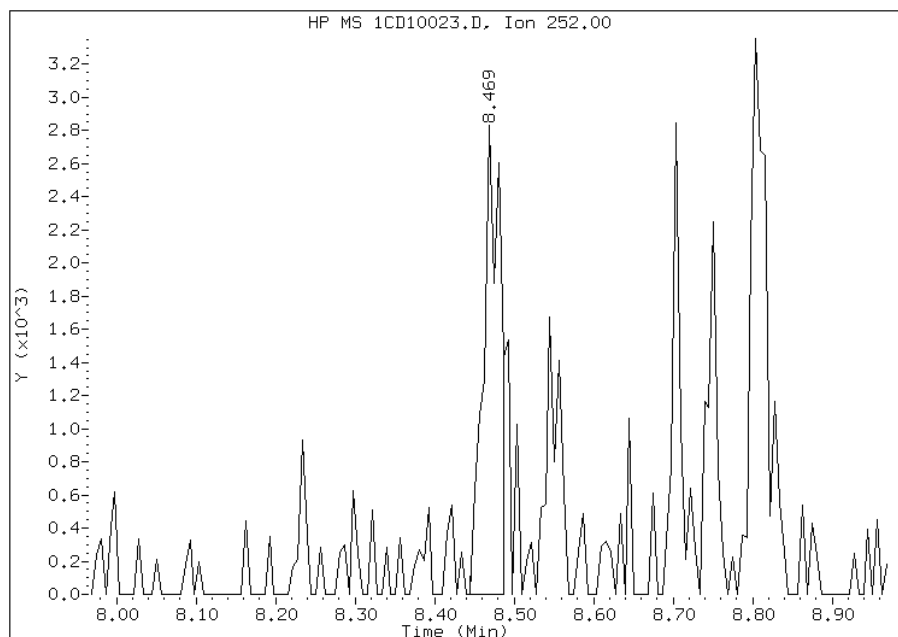
Processing Integration Results

RT: 8.47
Response: 4692
Amount: 0
Conc: 34



Manual Integration Results

RT: 8.47
Response: 4151
Amount: 0
Conc: 30



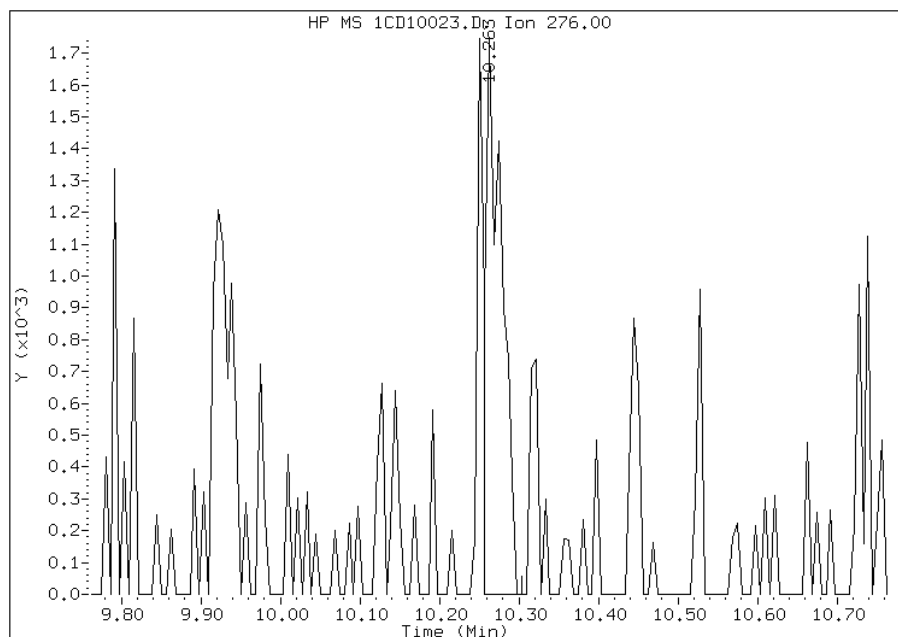
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10023.D
Inj. Date and Time: 10-APR-2013 19:25
Instrument ID: BSMC5973.i
Client ID: CV0666A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

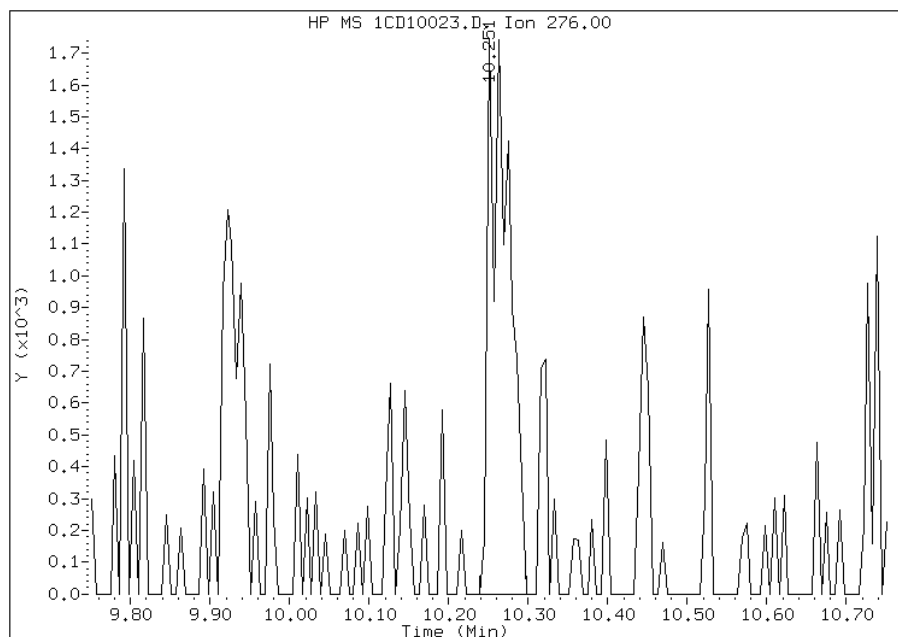
Processing Integration Results

RT: 10.26
Response: 2536
Amount: 0
Conc: 20



Manual Integration Results

RT: 10.25
Response: 3216
Amount: 0
Conc: 26



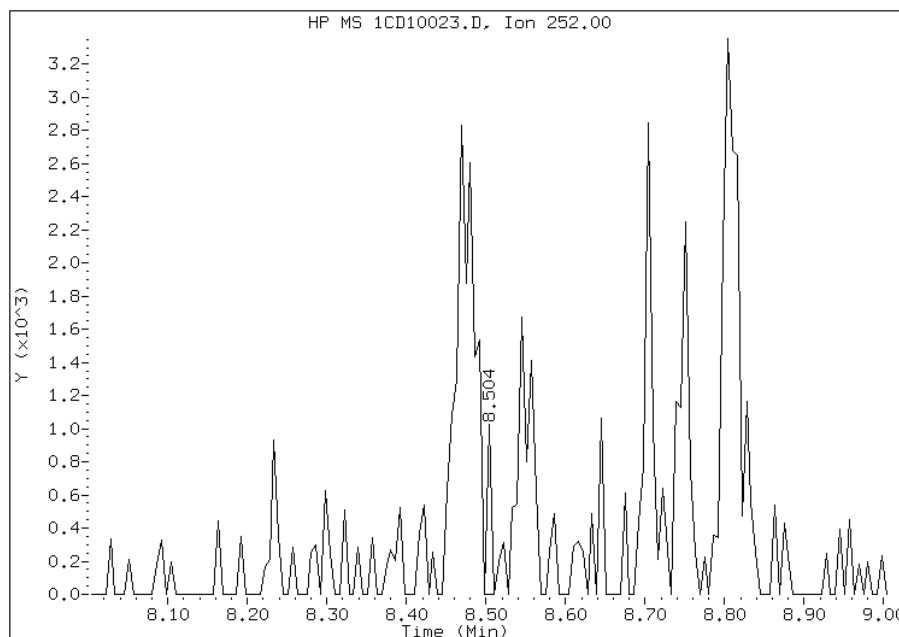
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10023.D
Inj. Date and Time: 10-APR-2013 19:25
Instrument ID: BSMC5973.i
Client ID: CV0666A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

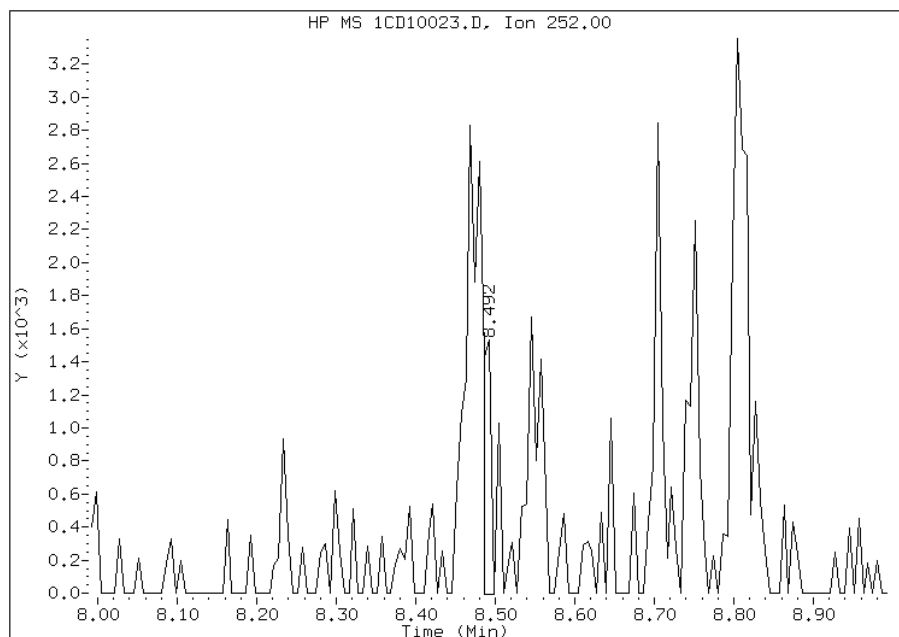
Processing Integration Results

RT: 8.50
Response: 362
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.49
Response: 1052
Amount: 0
Conc: 8



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:59
Manual Integration Reason: Analyte Misidentified by the Data System

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0666B-CS</u>	Lab Sample ID: <u>680-88980-8</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10024.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:17</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.07(g)</u>	Date Analyzed: <u>04/10/2013 19:43</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>46.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	190	U	190	37
208-96-8	Acenaphthylene	46	J	74	9.3
120-12-7	Anthracene	43		16	7.8
56-55-3	Benzo[a]anthracene	210		15	7.3
50-32-8	Benzo[a]pyrene	160		19	9.7
205-99-2	Benzo[b]fluoranthene	260		23	11
191-24-2	Benzo[g,h,i]perylene	110		37	8.2
207-08-9	Benzo[k]fluoranthene	160		15	6.7
218-01-9	Chrysene	160		17	8.4
53-70-3	Dibenz(a,h)anthracene	46		37	7.6
206-44-0	Fluoranthene	300	F	37	7.4
86-73-7	Fluorene	37	U	37	7.6
193-39-5	Indeno[1,2,3-cd]pyrene	89		37	13
90-12-0	1-Methylnaphthalene	21	J	74	8.2
91-57-6	2-Methylnaphthalene	19	J	74	13
91-20-3	Naphthalene	33	J	74	8.2
85-01-8	Phenanthrene	92		15	7.3
129-00-0	Pyrene	300		37	6.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10024.D
Lab Smp Id: 680-88980-A-8-A Client Smp ID: CV0666B-CS
Inj Date : 10-APR-2013 19:43
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-8-a
Misc Info : 680-88980-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	46.462	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)	
=====		====	====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	3.680	3.680	(1.000)	366967	40.0000		
*	6 Acenaphthene-d10	164	4.768	4.768	(1.000)	283594	40.0000		
*	10 Phenanthrene-d10	188	5.710	5.710	(1.000)	516014	40.0000		
\$	14 o-Terphenyl	230	5.962	5.963	(1.044)	48404	6.47231	802.2058	
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	604093	40.0000		
*	23 Perylene-d12	264	8.809	8.809	(1.000)	570606	40.0000		
	2 Naphthalene	128	3.692	3.692	(1.003)	2505	0.26577	32.9405(Q)	
	3 2-Methylnaphthalene	142	4.116	4.121	(1.118)	967	0.15072	18.6803(Q)	
	4 1-Methylnaphthalene	142	4.174	4.180	(1.134)	966	0.16732	20.7389(Q)	
	5 Acenaphthylene	152	4.680	4.680	(0.981)	4373	0.37257	46.1784	
	11 Phenanthrene	178	5.727	5.727	(1.003)	11137	0.74105	91.8486	
	12 Anthracene	178	5.763	5.763	(1.009)	5273	0.34612	42.8992	
	13 Carbazole	167	5.868	5.868	(1.028)	1777	0.13614	16.8743(Q)	
	15 Fluoranthene	202	6.557	6.557	(1.148)	39906	2.40436	298.0070	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Pyrene	202	6.727	6.727	(0.880)	40591	2.42568	300.6497
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	26589	1.65469	205.0896
19 Chrysene	228	7.662	7.668	(1.002)	22193	1.28924	159.7940
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.961)	33724	2.09057	259.1138
21 Benzo(k)fluoranthene	252	8.486	8.498	(0.963)	20349	1.30425	161.6542
22 Benzo(a)pyrene	252	8.751	8.756	(0.993)	19944	1.31319	162.7624
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.127)	10370	0.71888	89.1012(M)
25 Dibenzo(a,h)anthracene	278	9.933	9.950	(1.128)	4915	0.36884	45.7159(M)
26 Benzo(g,h,i)perylene	276	10.262	10.280	(1.165)	12519	0.85032	105.3927

QC Flag Legend

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

Data File: 1CD10024.D

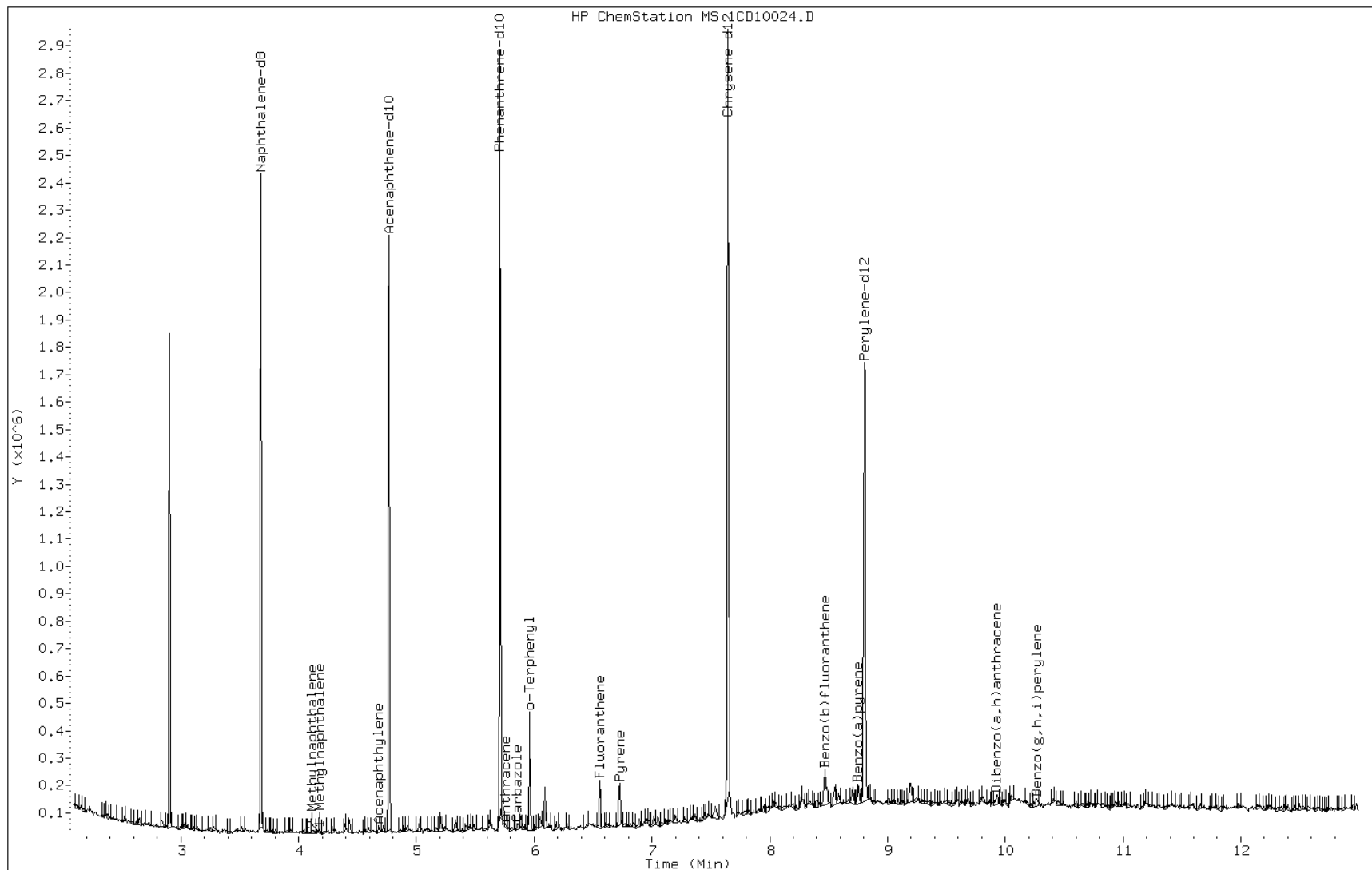
Date: 10-APR-2013 19:43

Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

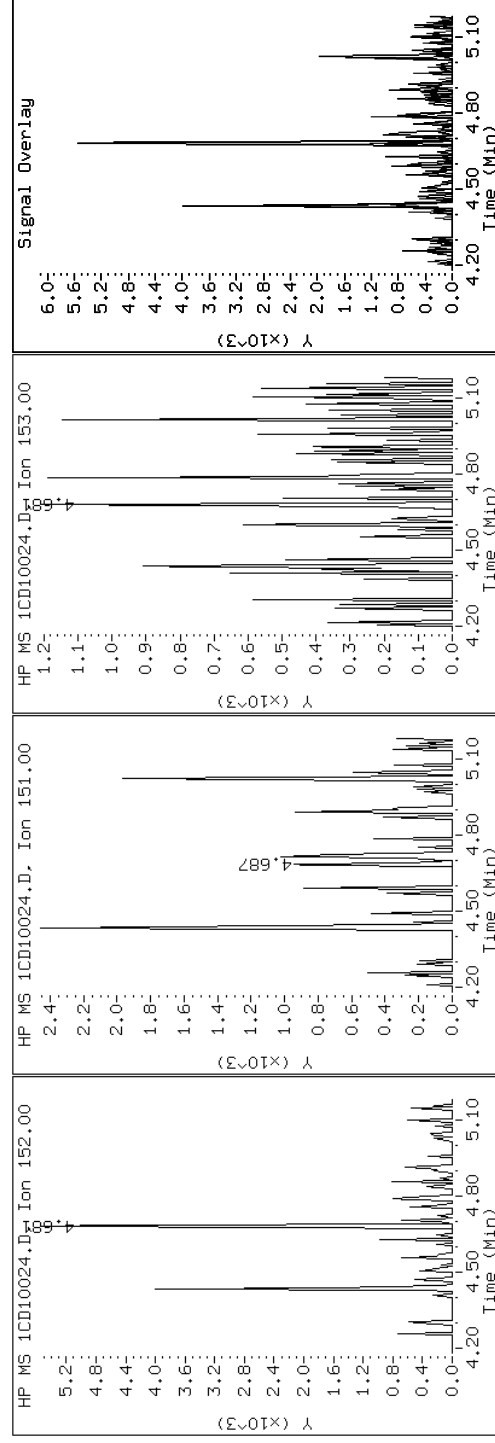
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

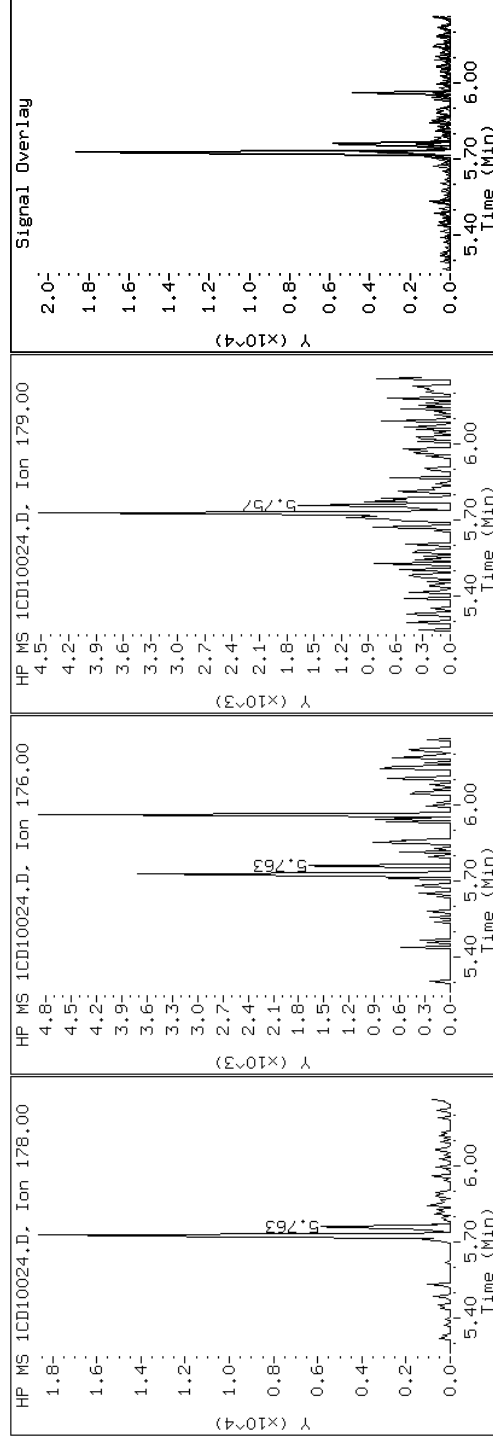
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

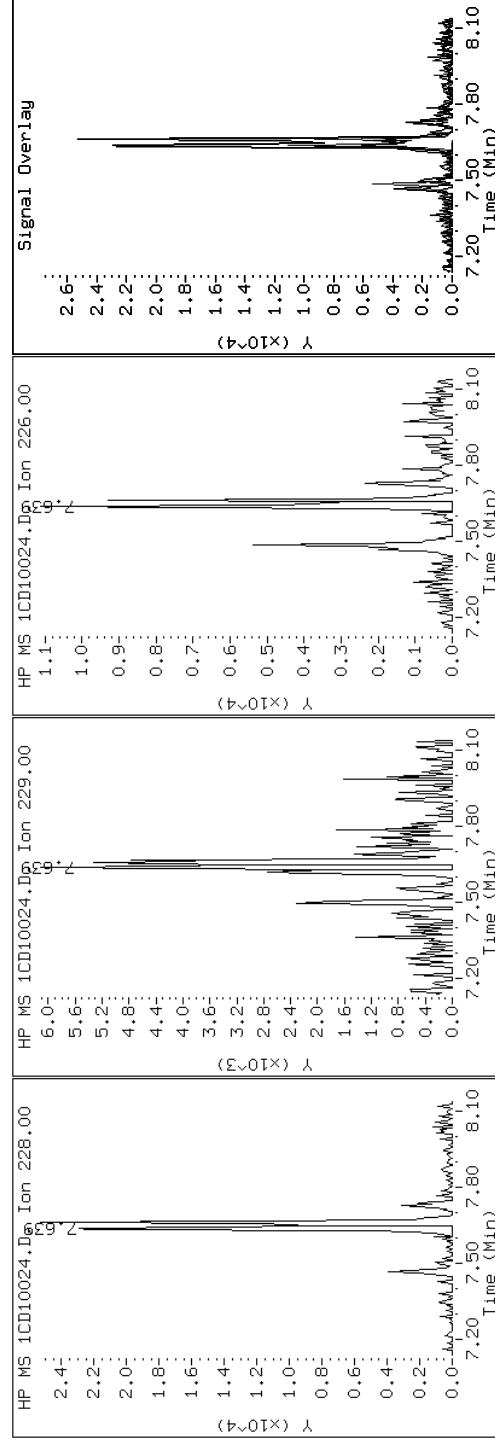
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

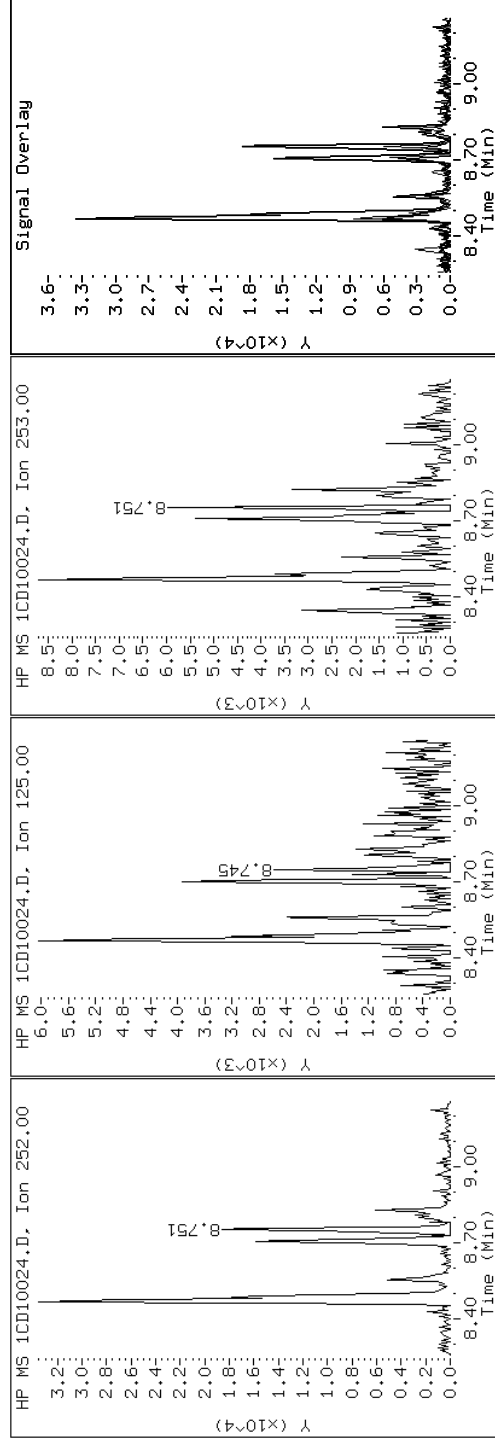
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

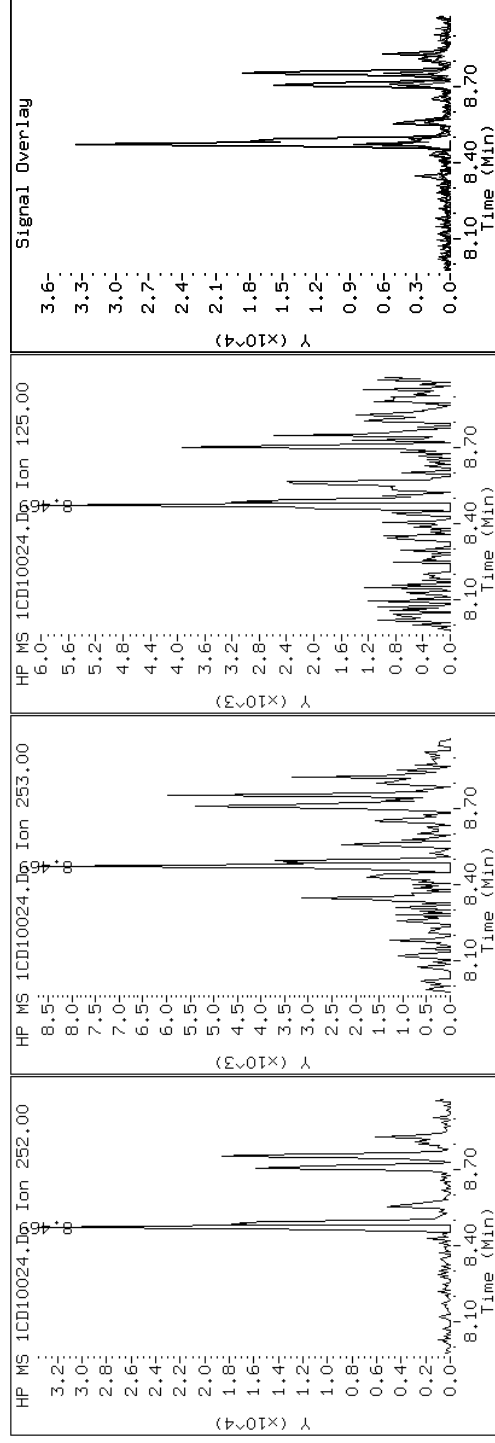
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

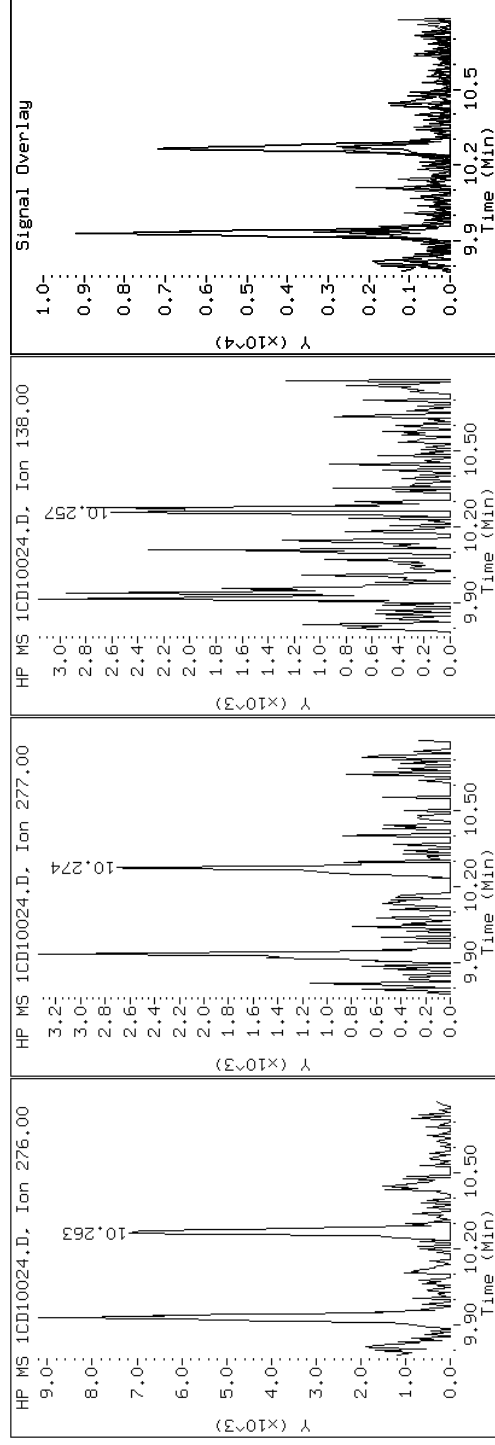
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

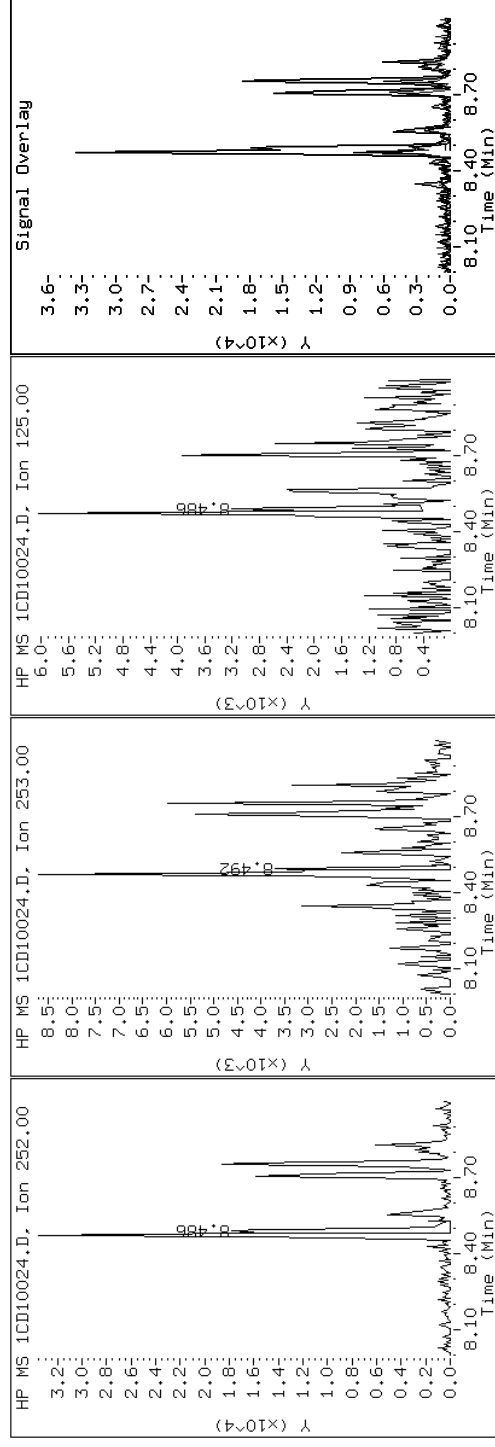
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

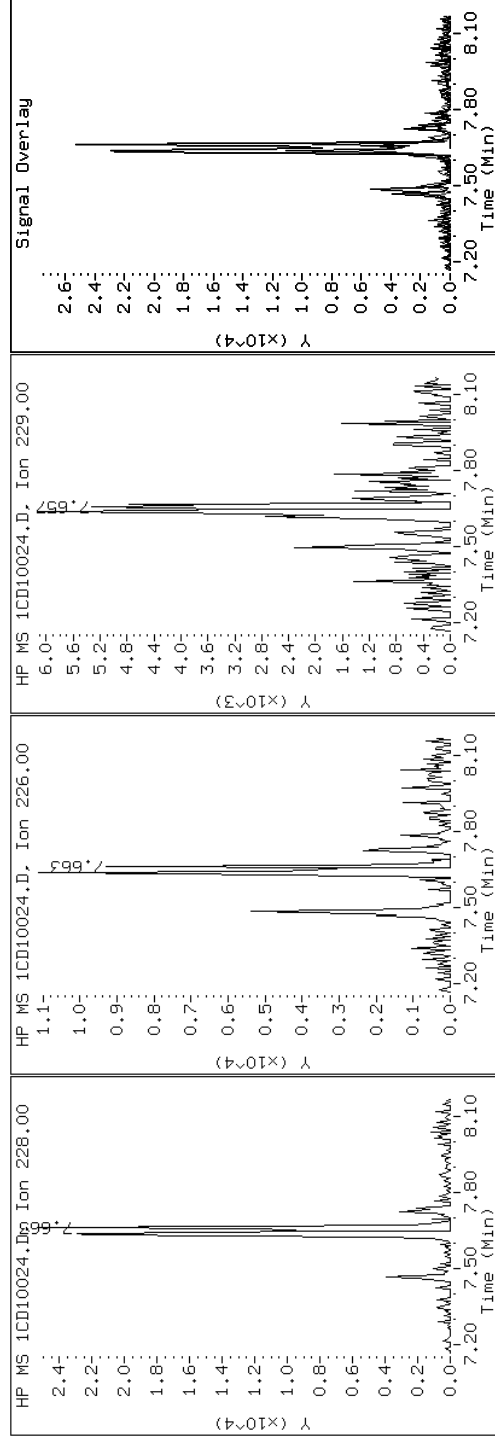
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

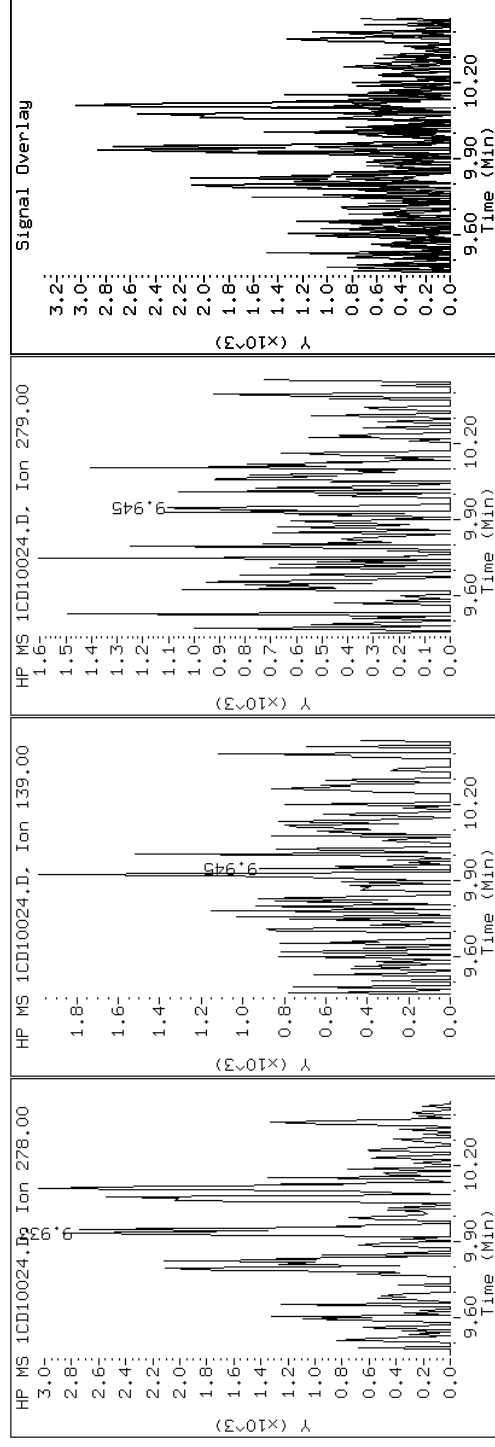
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

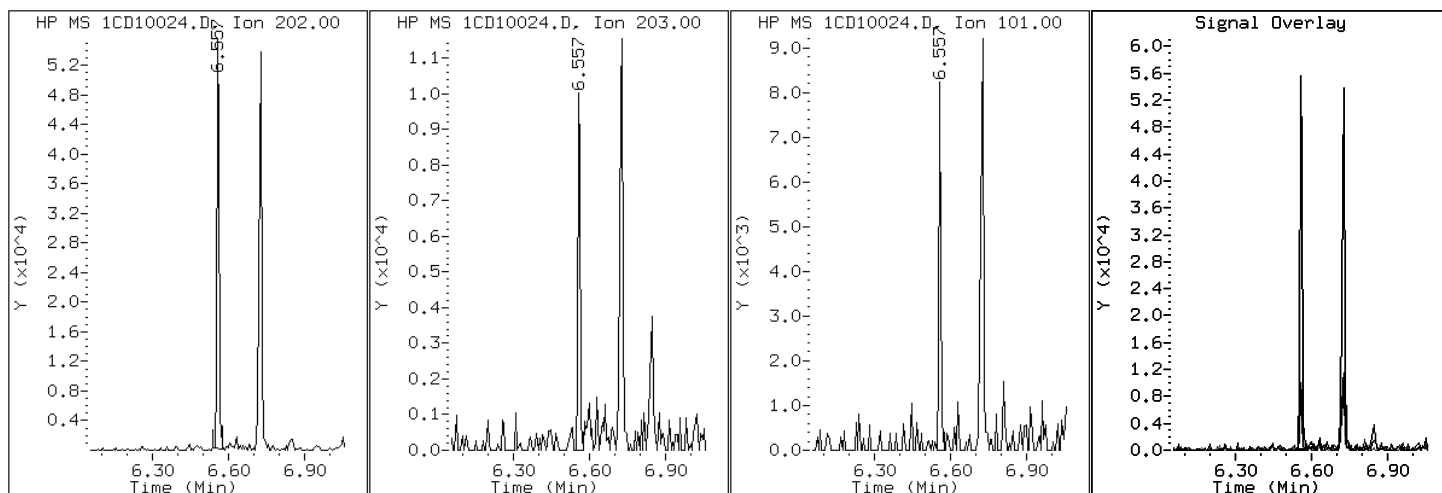
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

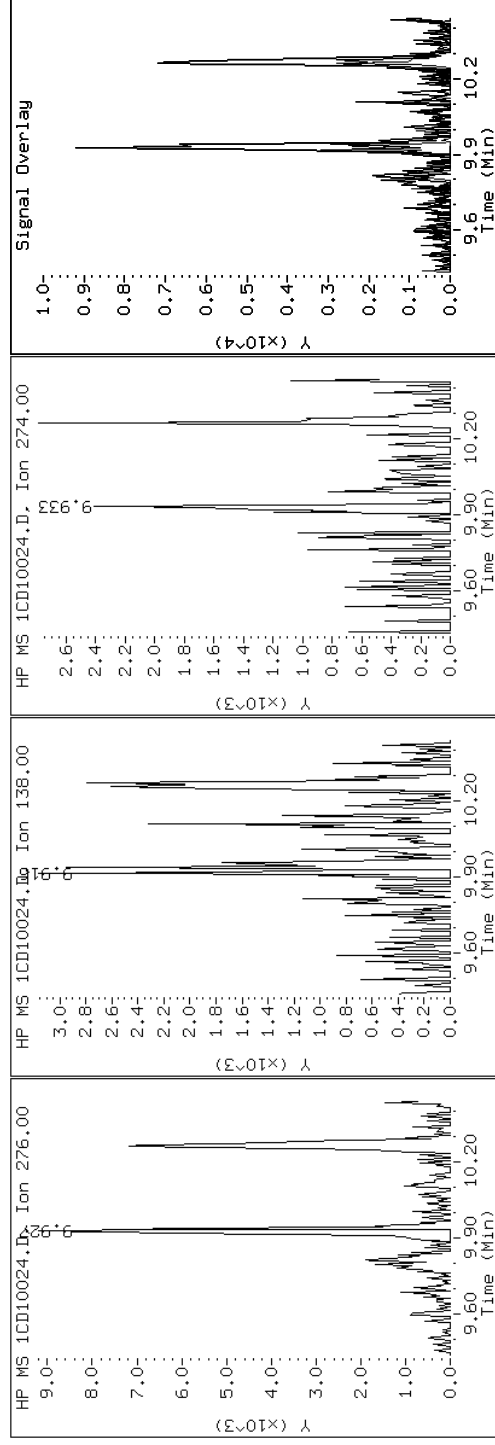
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

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



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

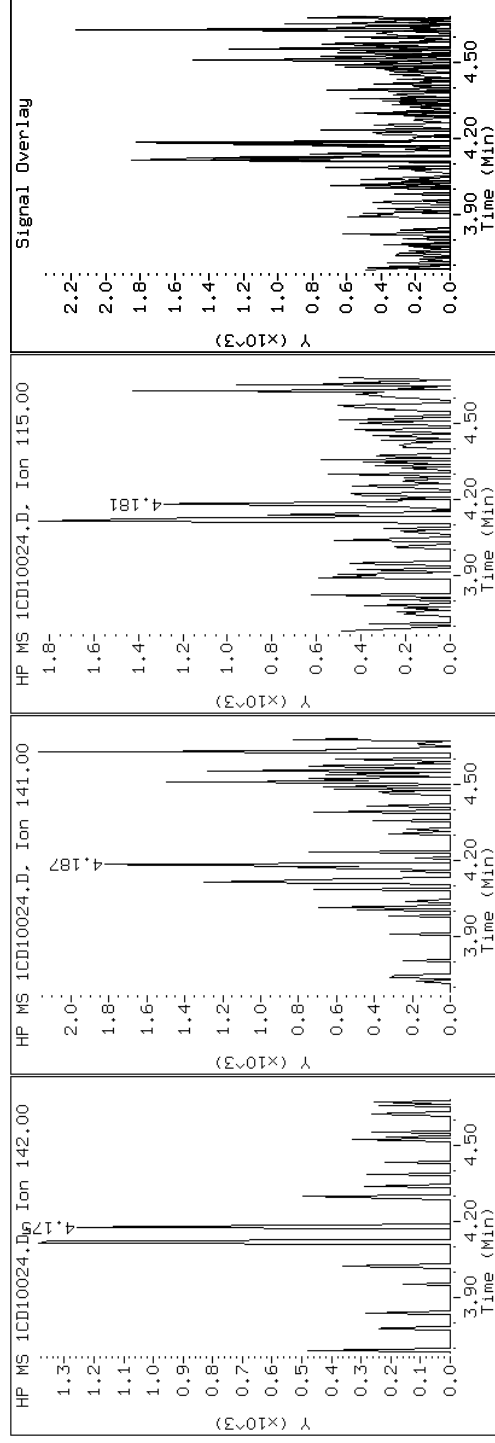
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

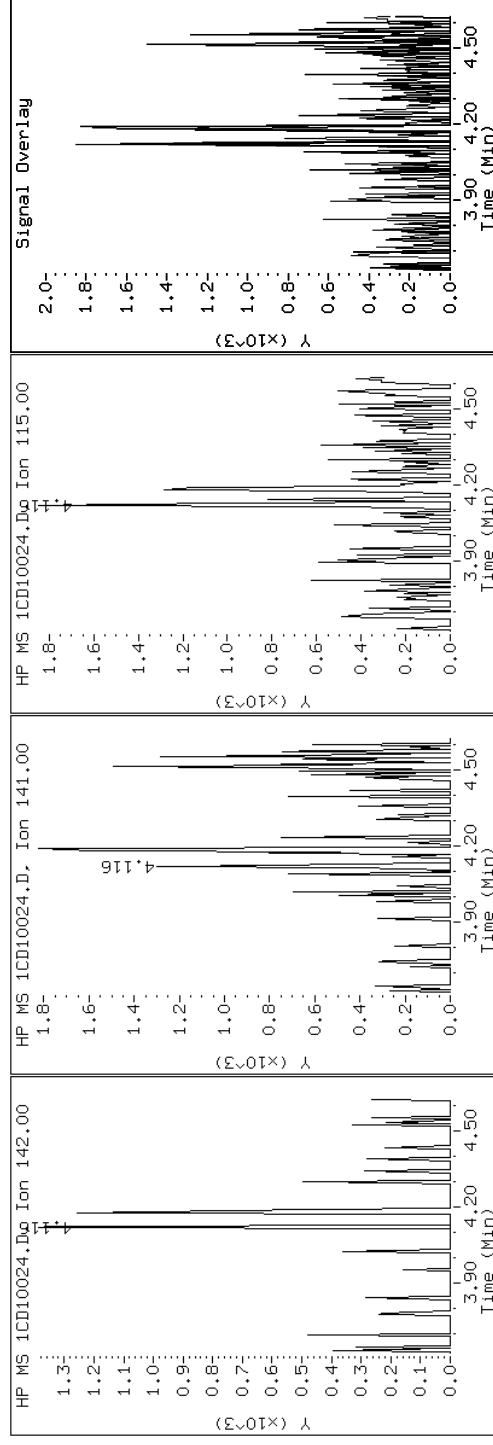
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

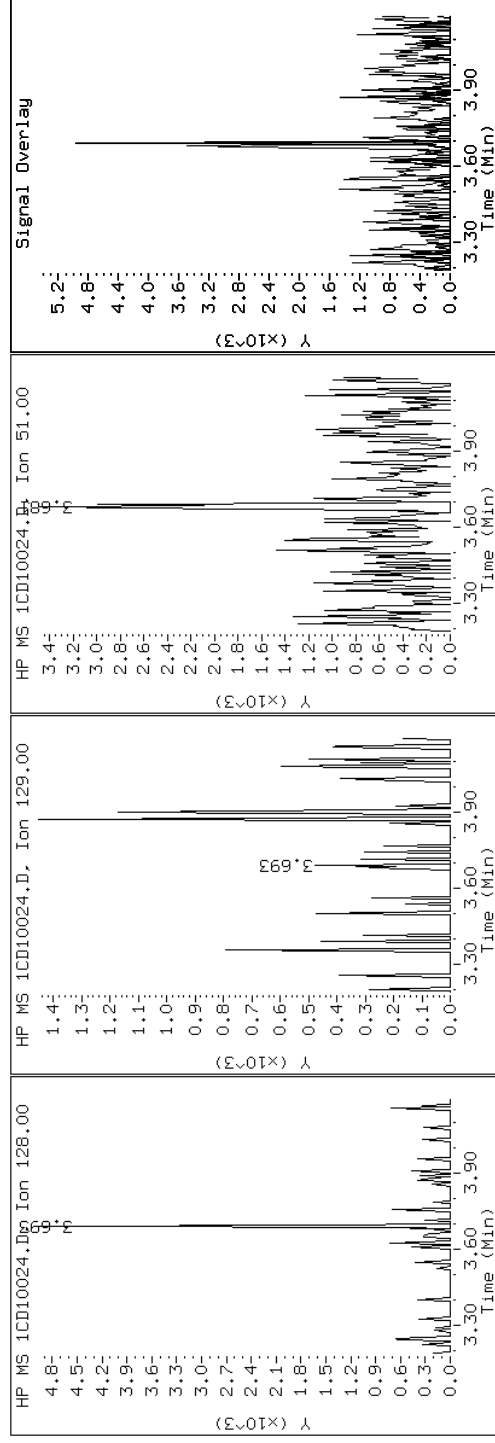
Client ID: CV0666B-CS

Sample Info: 680-88980-a-8-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

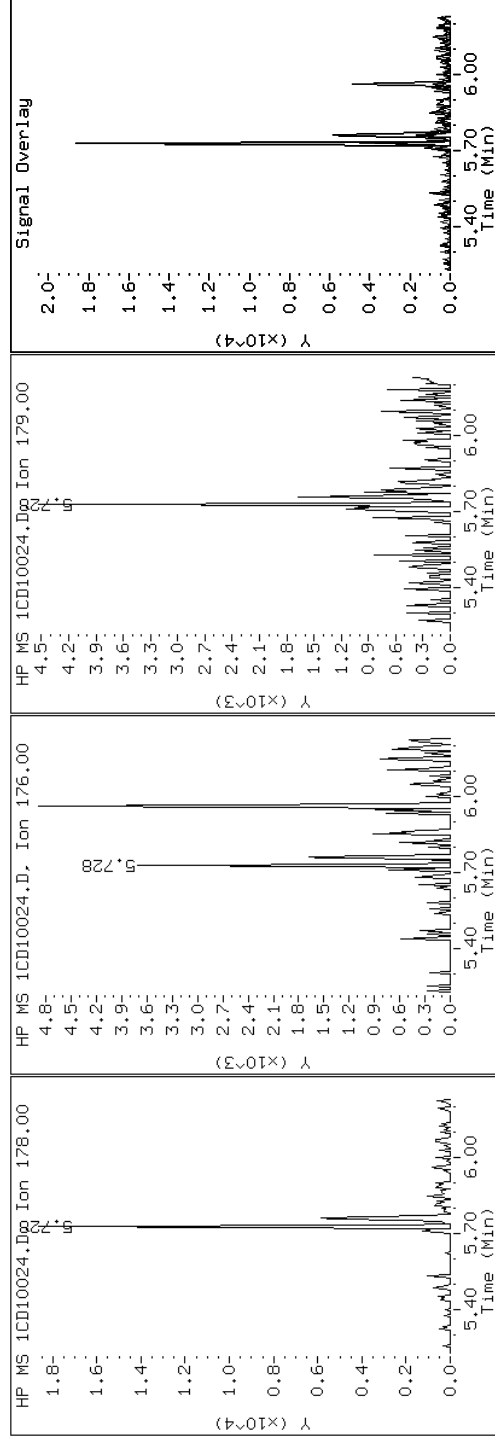
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10024.D

Date: 10-APR-2013 19:43

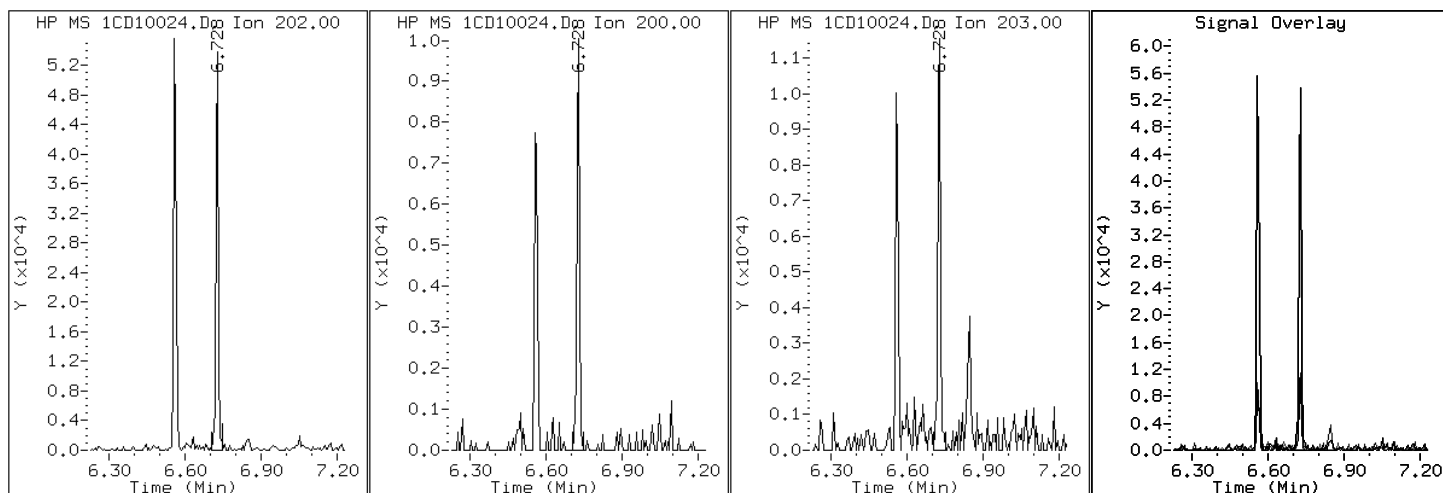
Client ID: CV0666B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-a

Operator: SCC

16 Pyrene

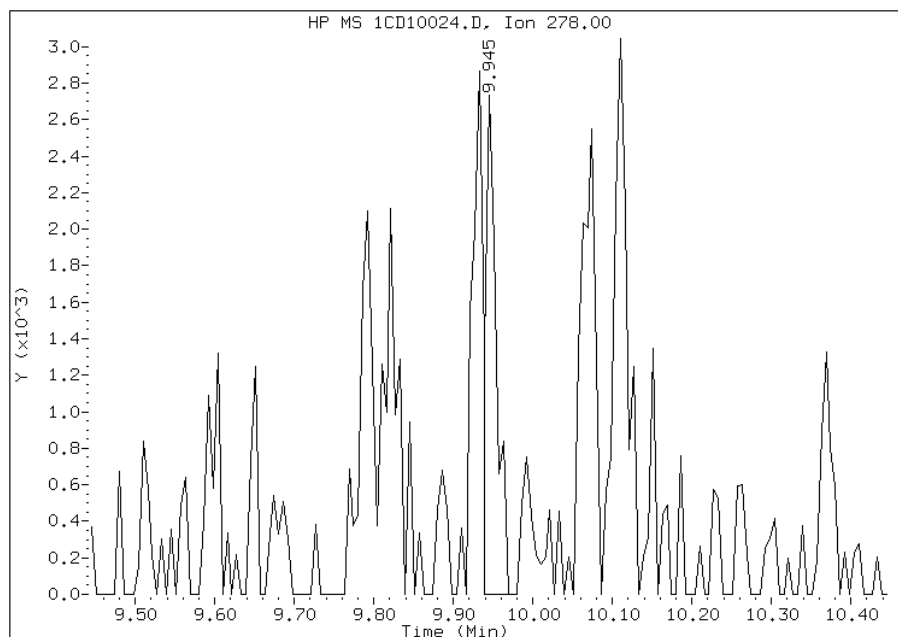


Manual Integration Report

Data File: 1CD10024.D
Inj. Date and Time: 10-APR-2013 19:43
Instrument ID: BSMC5973.i
Client ID: CV0666B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

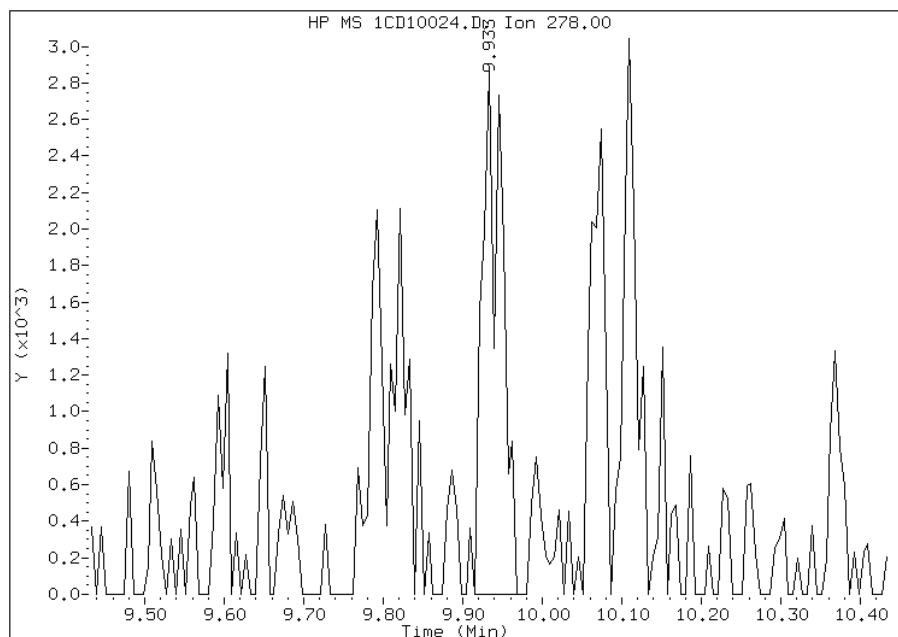
Processing Integration Results

RT: 9.95
Response: 2648
Amount: 0
Conc: 25



Manual Integration Results

RT: 9.93
Response: 4915
Amount: 0
Conc: 46



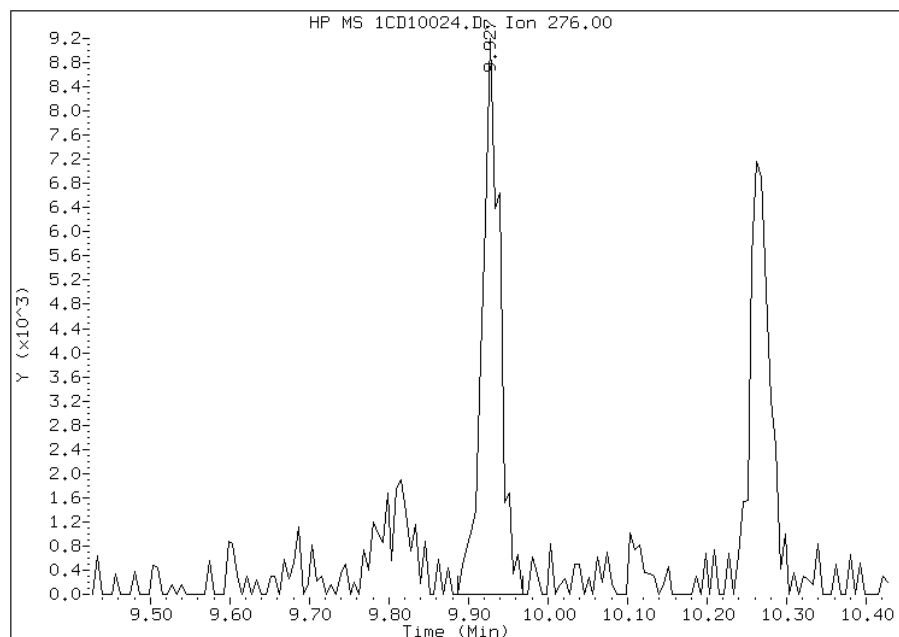
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10024.D
Inj. Date and Time: 10-APR-2013 19:43
Instrument ID: BSMC5973.i
Client ID: CV0666B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

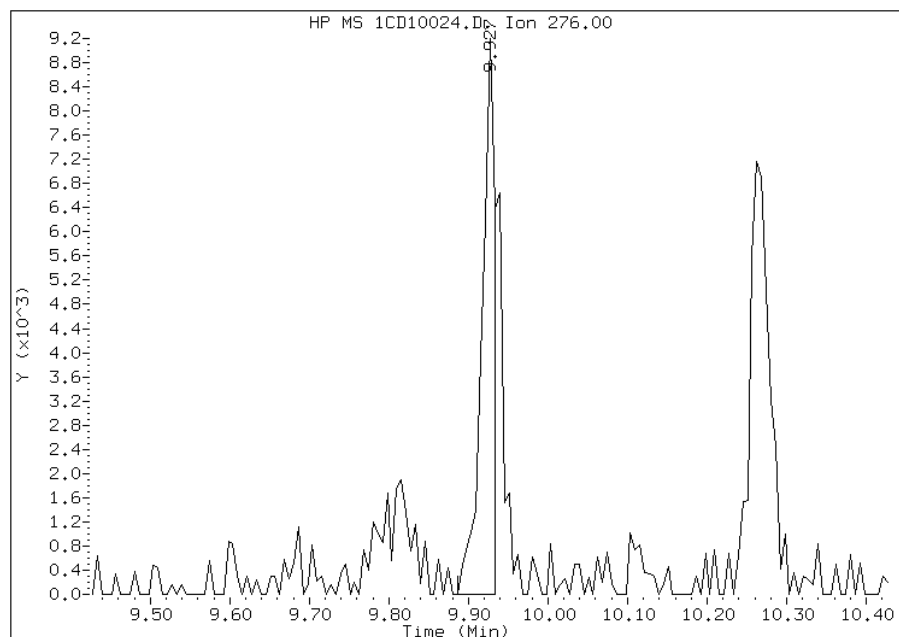
Processing Integration Results

RT: 9.93
Response: 14197
Amount: 1
Conc: 122



Manual Integration Results

RT: 9.93
Response: 10370
Amount: 1
Conc: 89



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0668A-CS</u>	Lab Sample ID: <u>680-88980-9</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 08:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.45(g)</u>	Date Analyzed: <u>04/10/2013 20:38</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>36.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	61	U	61	7.6
120-12-7	Anthracene	13	U	13	6.4
56-55-3	Benzo[a]anthracene	12	U	12	5.9
50-32-8	Benzo[a]pyrene	13	J	16	7.9
205-99-2	Benzo[b]fluoranthene	27		19	9.3
191-24-2	Benzo[g,h,i]perylene	11	J	30	6.7
207-08-9	Benzo[k]fluoranthene	7.2	J	12	5.5
218-01-9	Chrysene	21		14	6.8
53-70-3	Dibenz(a,h)anthracene	6.7	J	30	6.2
206-44-0	Fluoranthene	32		30	6.1
86-73-7	Fluorene	30	U	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	30	U	30	11
90-12-0	1-Methylnaphthalene	16	J	61	6.7
91-57-6	2-Methylnaphthalene	61	U	61	11
91-20-3	Naphthalene	15	J	61	6.7
85-01-8	Phenanthrene	21		12	5.9
129-00-0	Pyrene	20	J	30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10027.D
Lab Smp Id: 680-88980-A-9-A Client Smp ID: CV0668A-CS
Inj Date : 10-APR-2013 20:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-9-a
Misc Info : 680-88980-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10027.D
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.450	Weight Extracted
M	36.077	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		401035	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		291011	40.0000	
* 10 Phenanthrene-d10	188		5.709	5.710	(1.000)		558674	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		45409	5.70504	577.6611
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		615322	40.0000	
* 23 Perylene-d12	264		8.803	8.809	(1.000)		571657	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		1497	0.14533	14.7156(Q)
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		970	0.15374	15.5673(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		3444	0.21166	21.4318
15 Fluoranthene	202		6.556	6.557	(1.148)		5697	0.31704	32.1015
16 Pyrene	202		6.721	6.727	(0.879)		3444	0.20205	20.4589
19 Chrysene	228		7.662	7.668	(1.002)		3554	0.20269	20.5235
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.962)		4234	0.26199	26.5271(M)
21 Benzo(k)fluoranthene	252		8.492	8.498	(0.965)		1115	0.07133	7.2228(QM)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
22 Benzo(a)pyrene	252	8.750	8.756	(0.994)	1987	0.13059	13.2229
25 Dibenzo(a,h)anthracene	278	9.945	9.950	(1.130)	878	0.06577	6.6592
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	1583	0.10732	10.8670(Q)

QC Flag Legend

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

Data File: 1CD10027.D

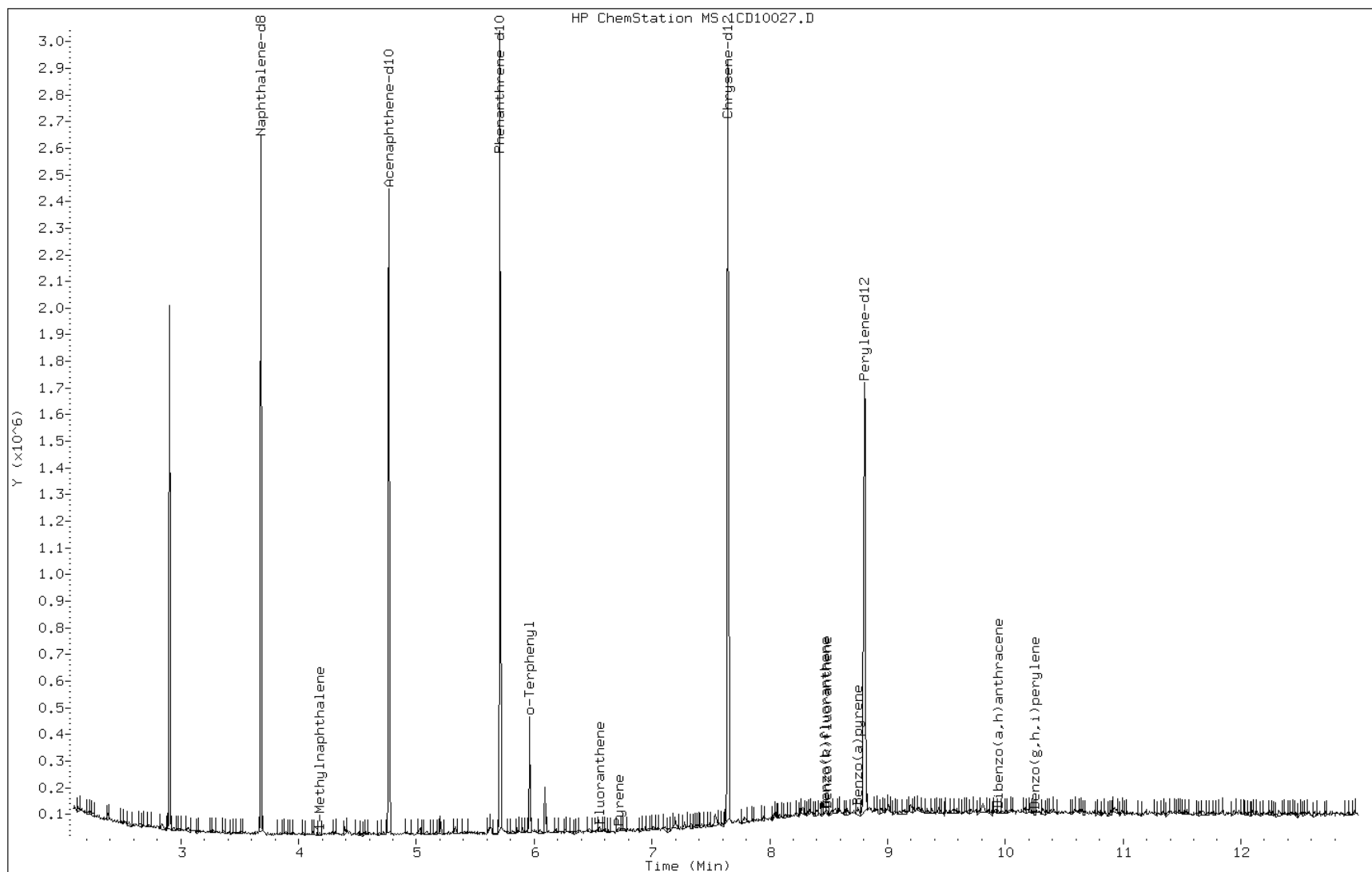
Date: 10-APR-2013 20:38

Client ID: CV0668A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-9-a

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

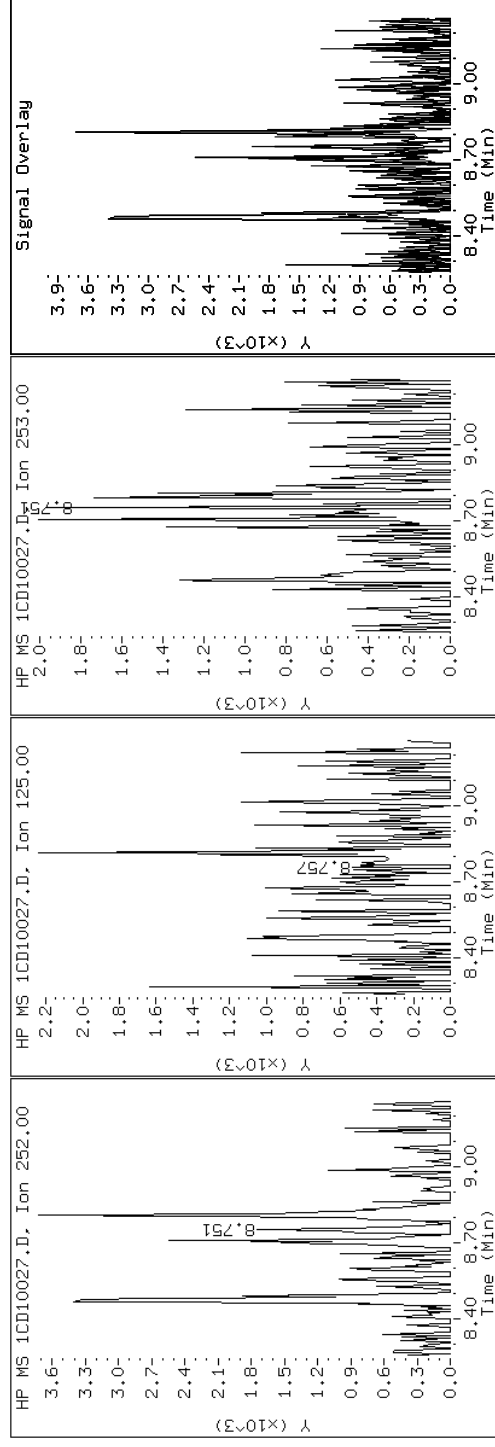
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

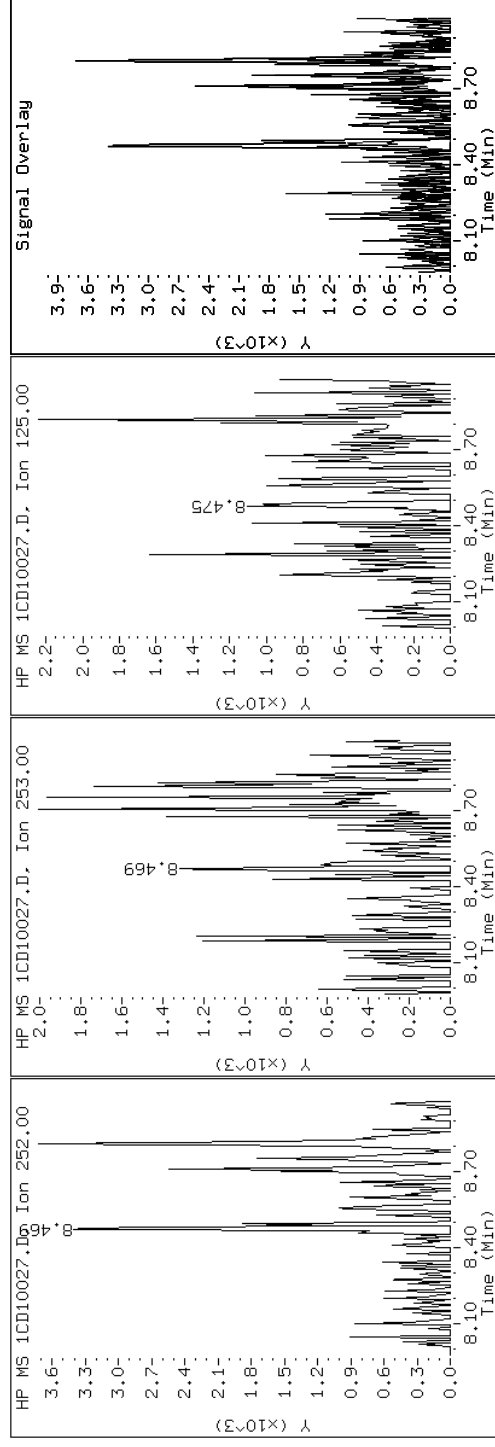
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

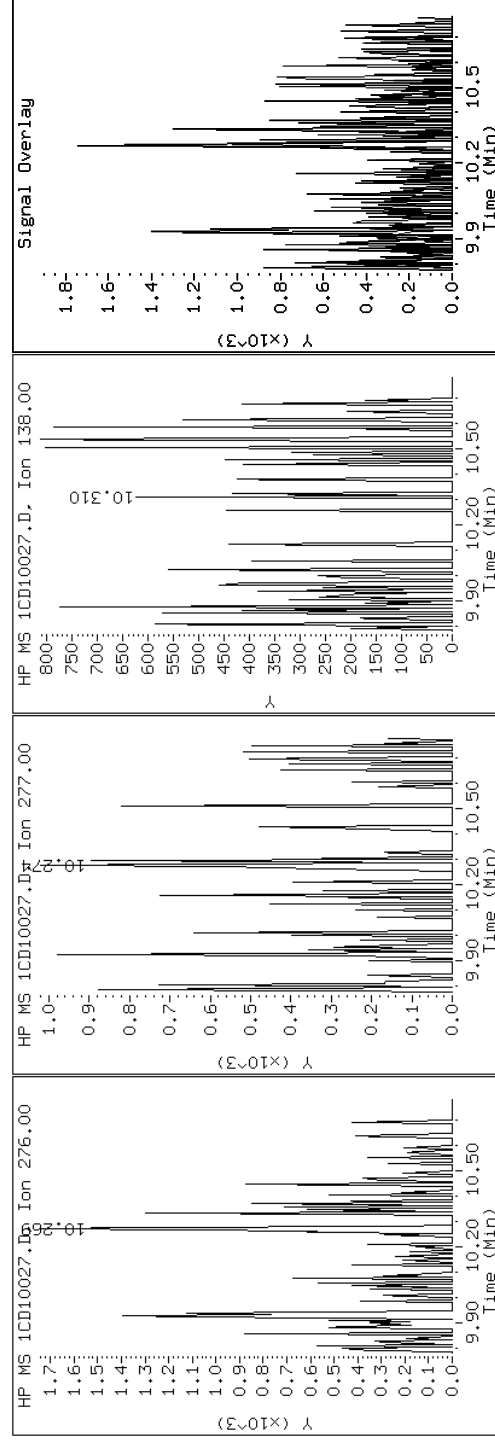
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

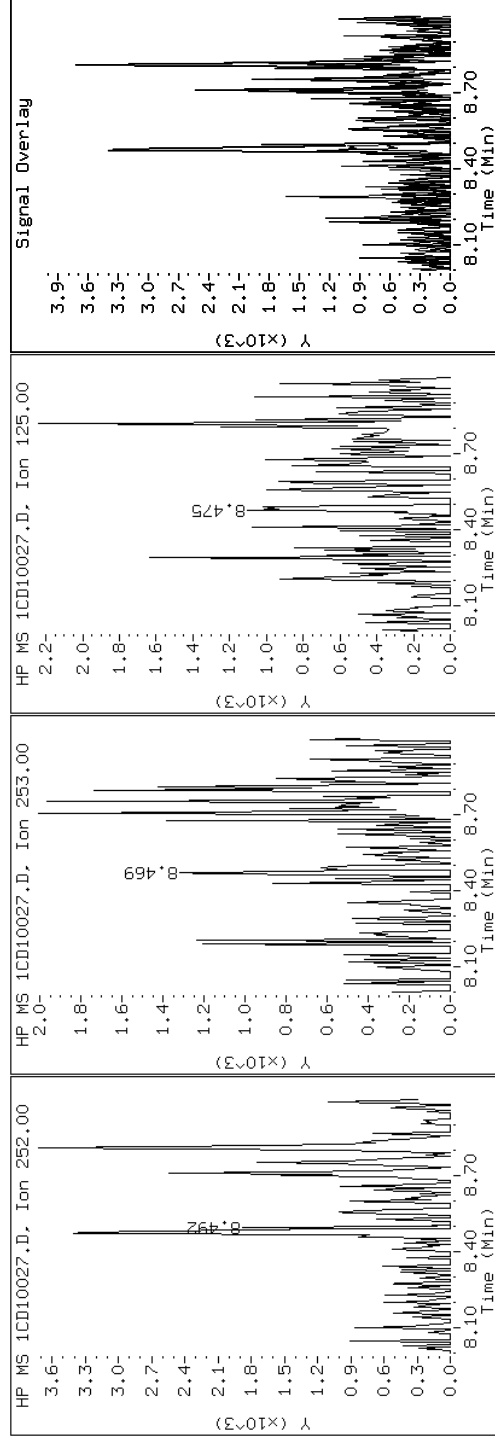
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

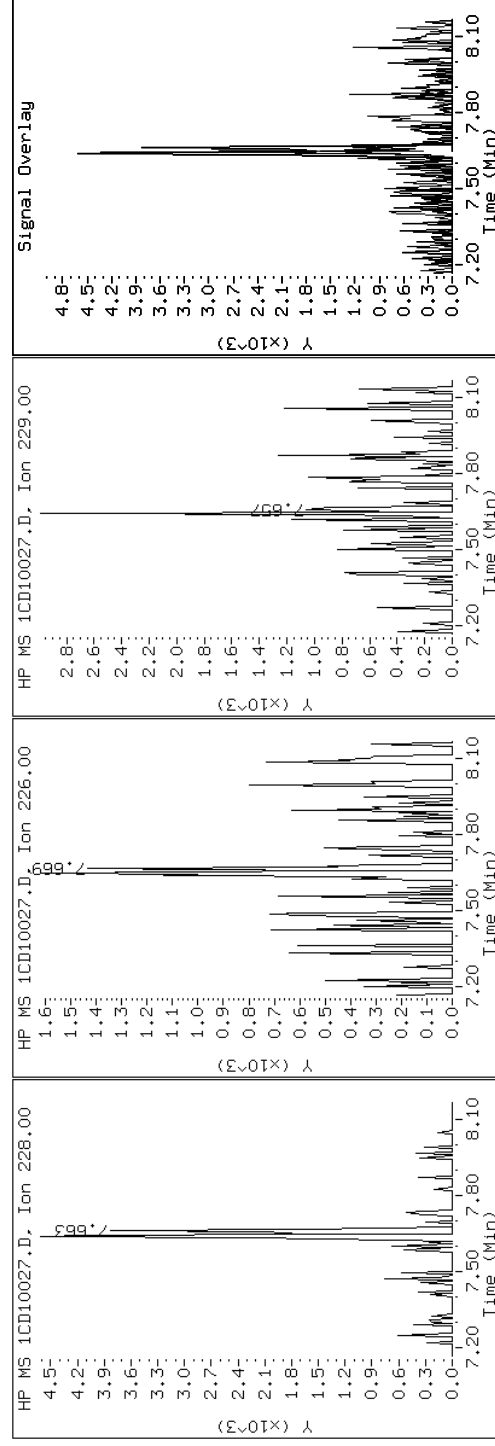
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

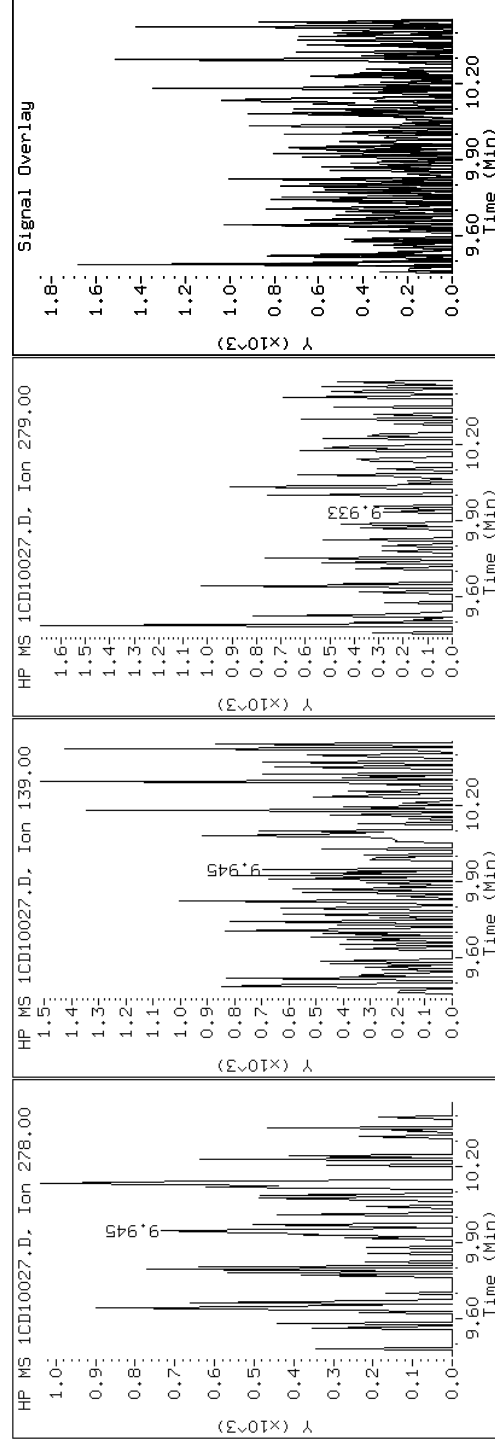
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

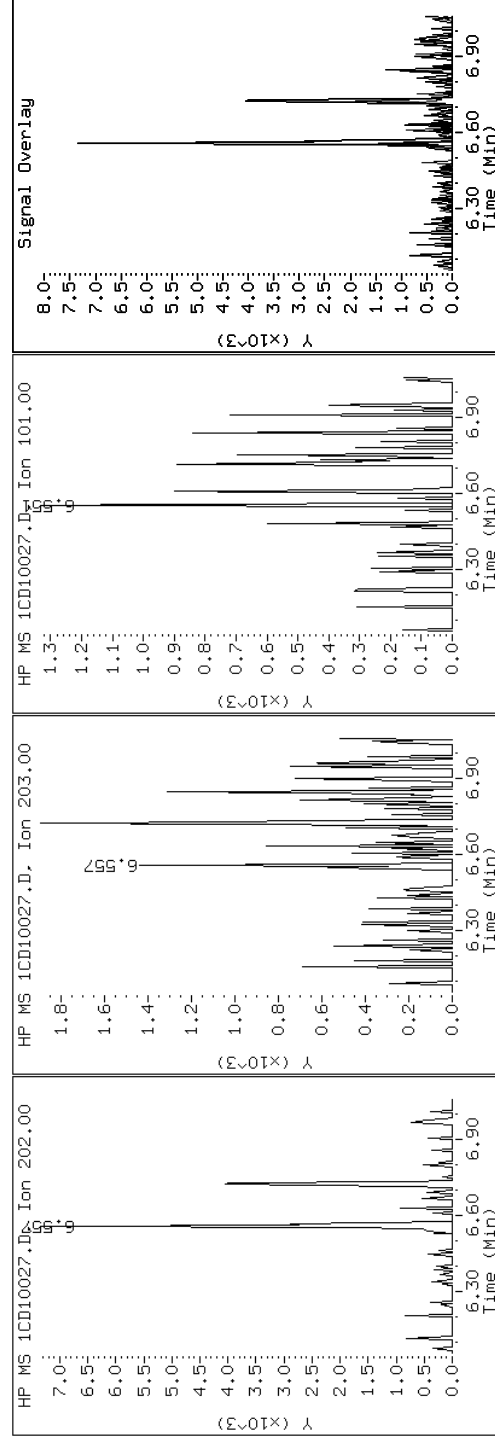
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

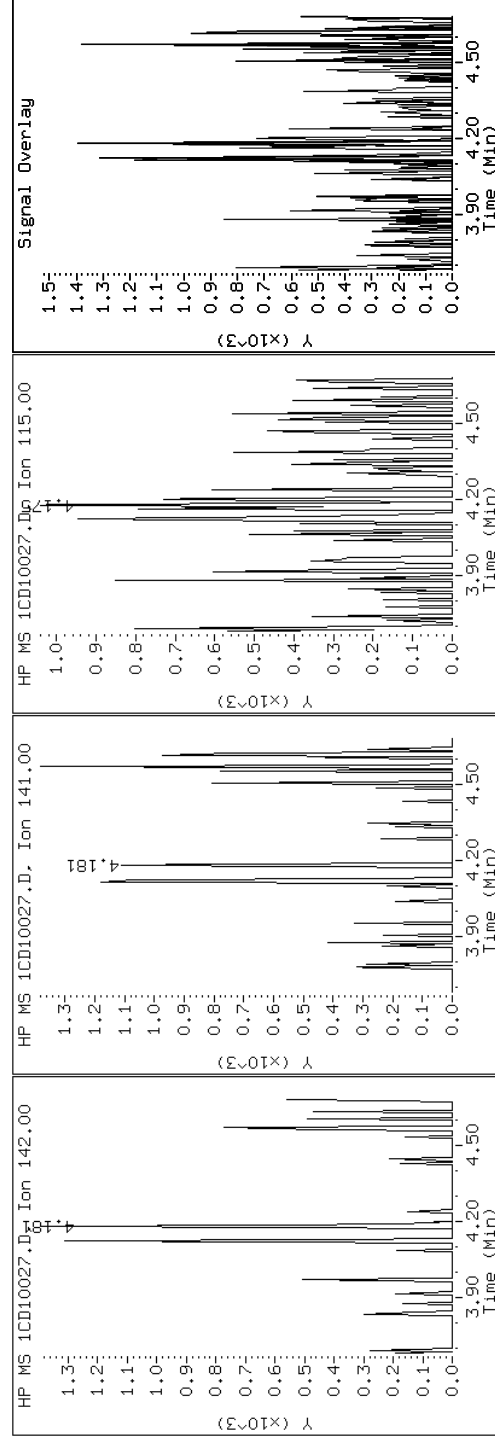
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

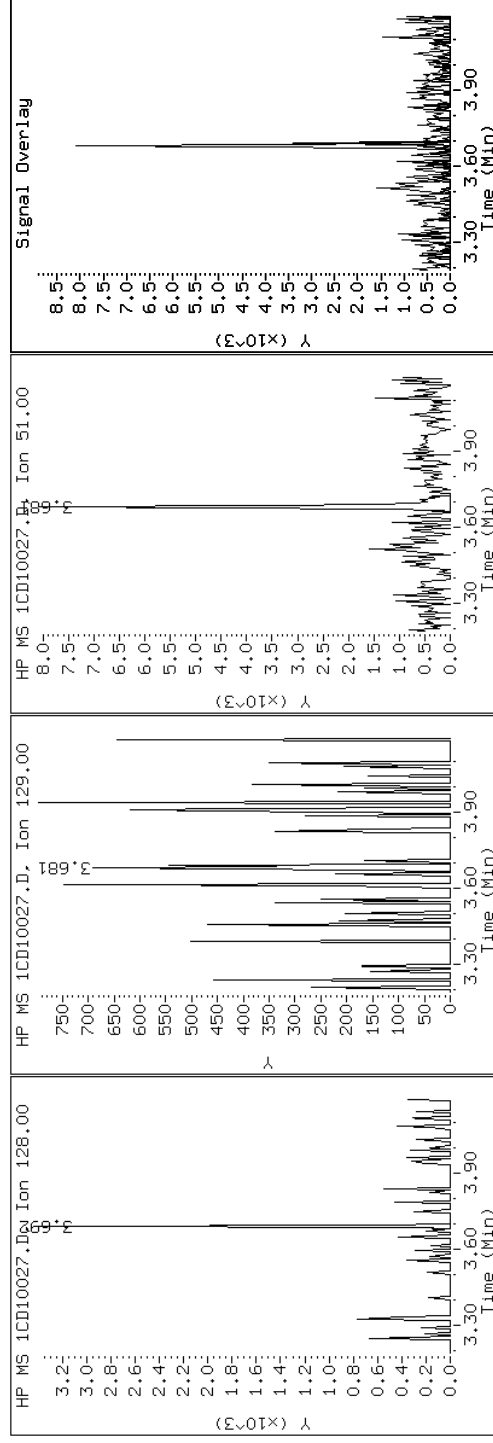
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

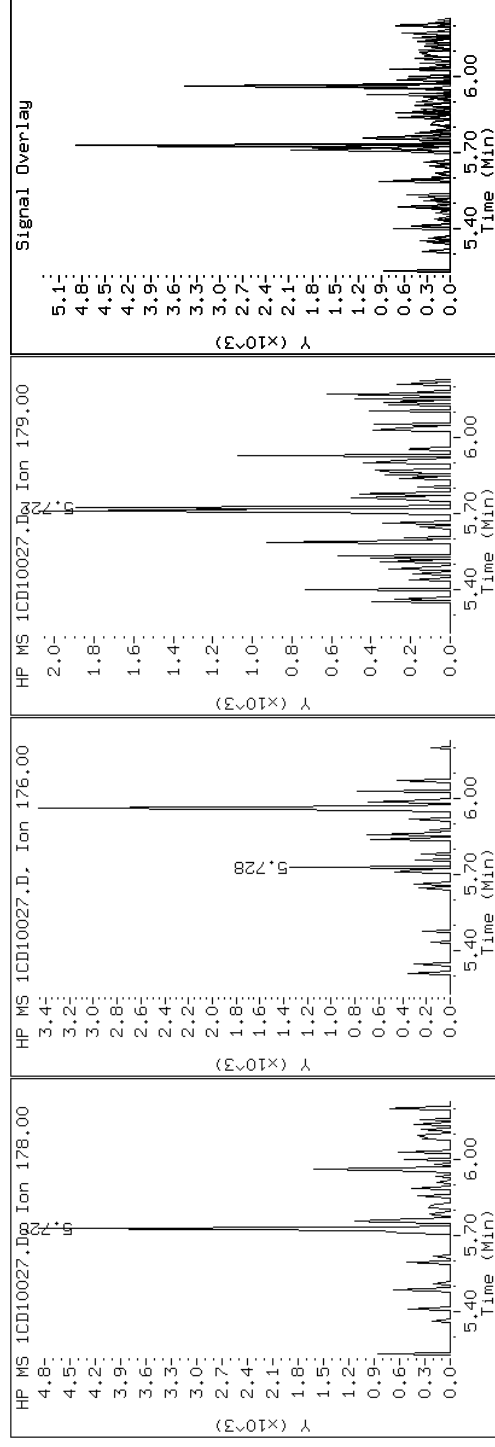
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

11 Phenanthrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10027.D

Date: 10-APR-2013 20:38

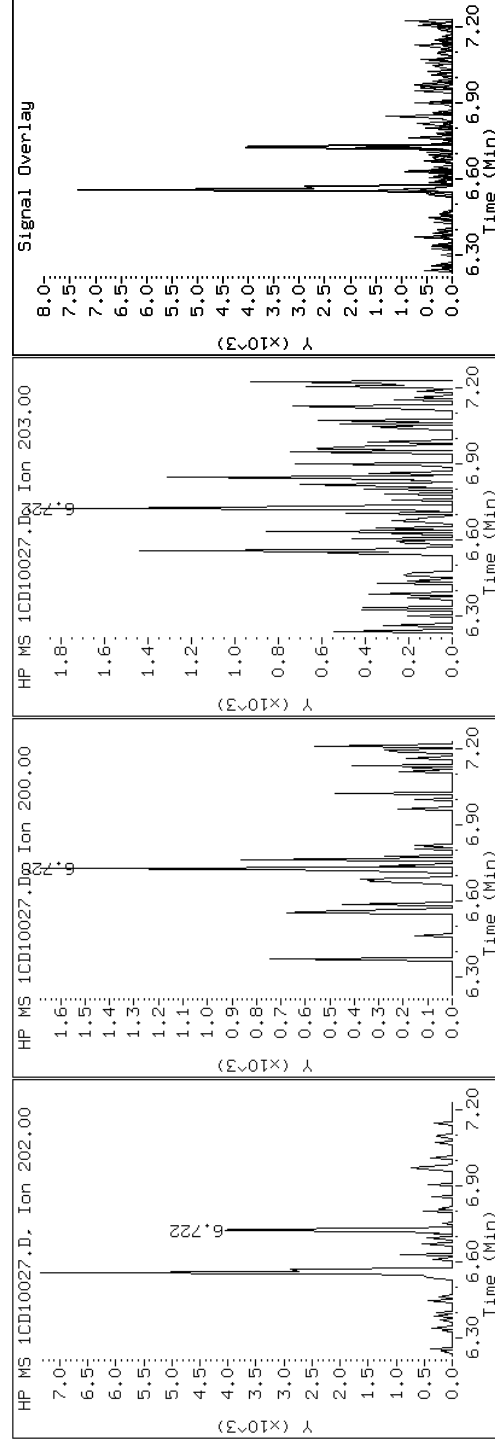
Client ID: CV0668A-CS

Sample Info: 680-88980-a-9-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

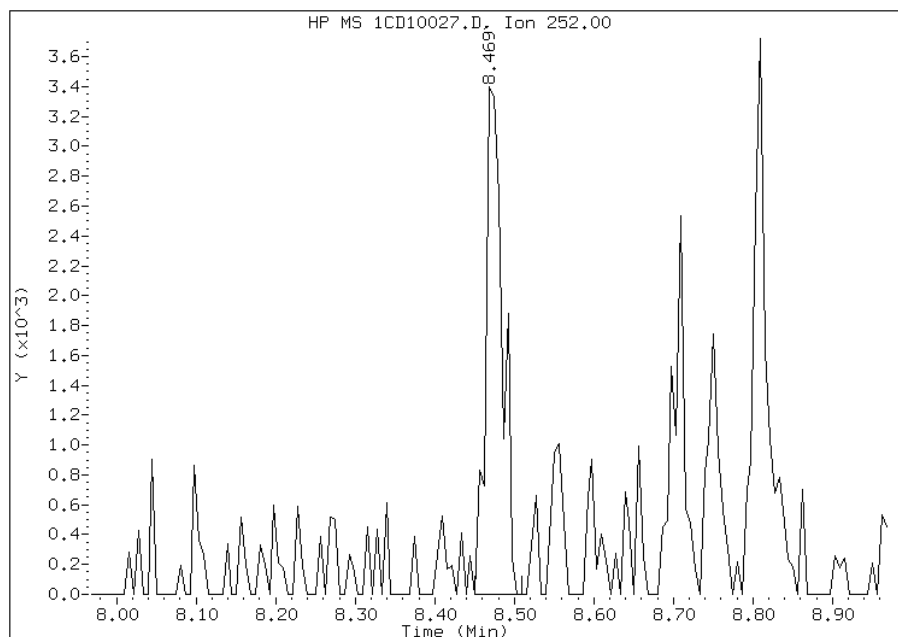


Manual Integration Report

Data File: 1CD10027.D
Inj. Date and Time: 10-APR-2013 20:38
Instrument ID: BSMC5973.i
Client ID: CV0668A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

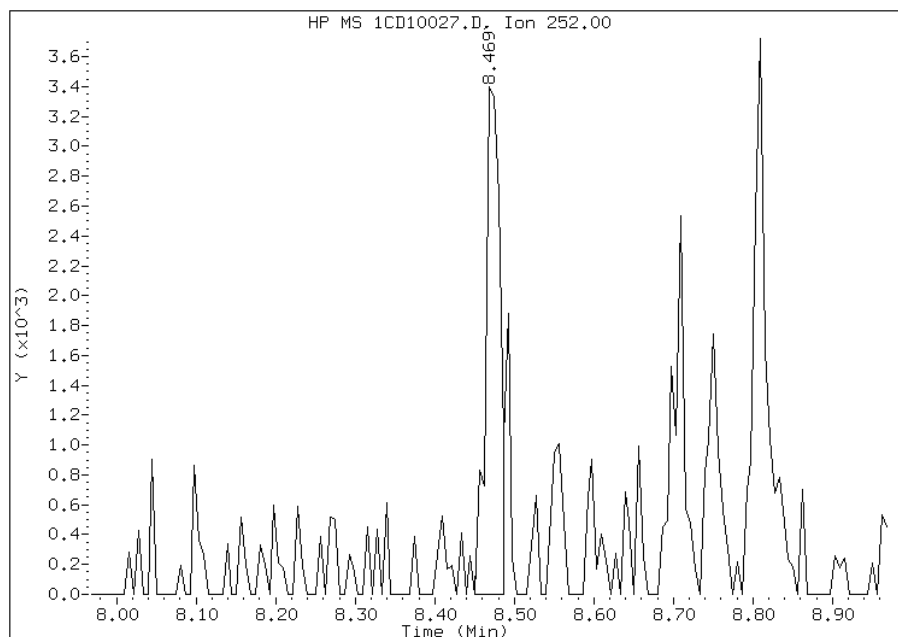
Processing Integration Results

RT: 8.47
Response: 4982
Amount: 0
Conc: 31



Manual Integration Results

RT: 8.47
Response: 4234
Amount: 0
Conc: 27



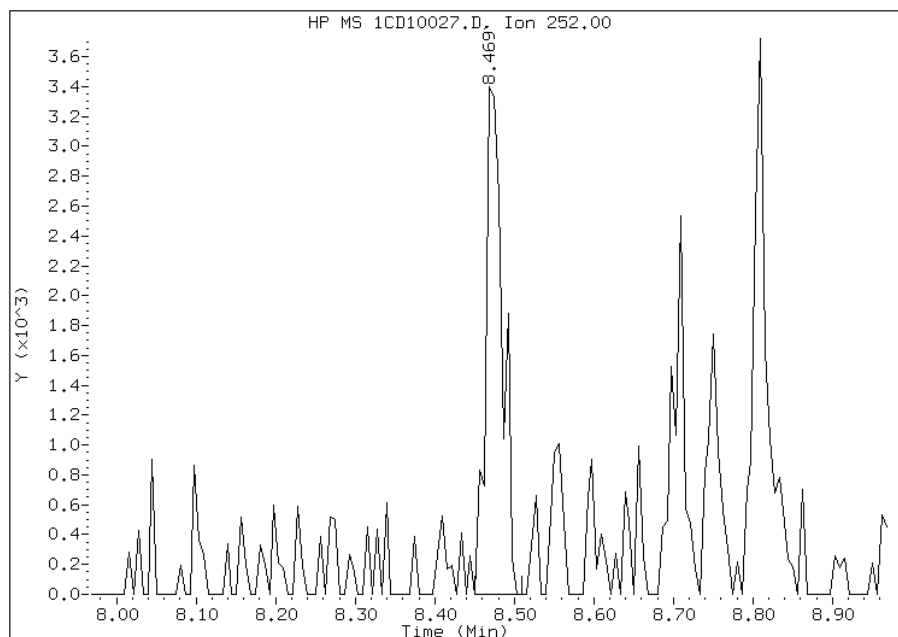
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10027.D
Inj. Date and Time: 10-APR-2013 20:38
Instrument ID: BSMC5973.i
Client ID: CV0668A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

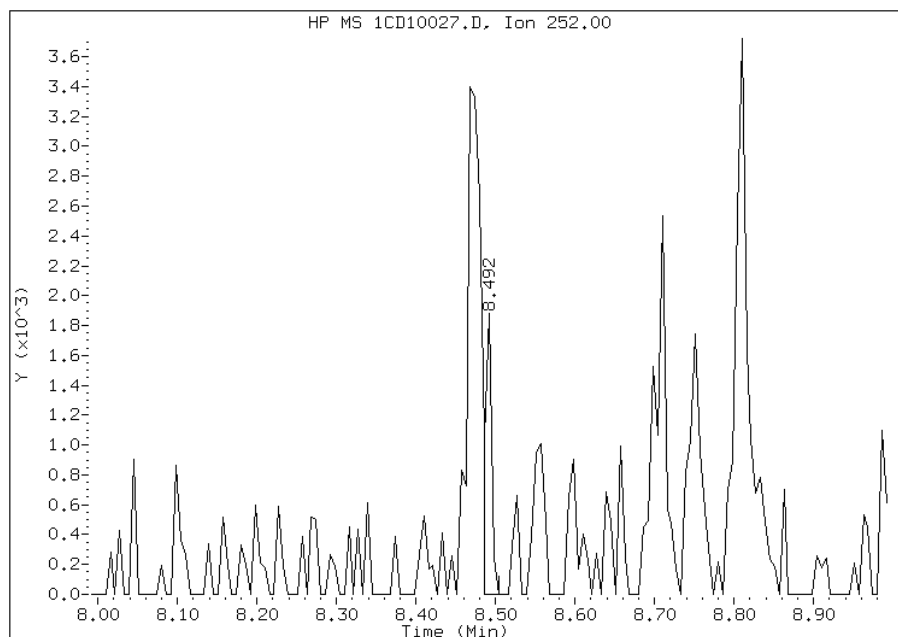
Processing Integration Results

RT: 8.47
Response: 4982
Amount: 0
Conc: 32



Manual Integration Results

RT: 8.49
Response: 1115
Amount: 0
Conc: 7



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:07
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0668A-CSD</u>	Lab Sample ID: <u>680-88980-10</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 08:42</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.07(g)</u>	Date Analyzed: <u>04/10/2013 20:57</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>23.2</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	52	U	52	6.5
120-12-7	Anthracene	19		11	5.4
56-55-3	Benzo[a]anthracene	72		10	5.1
50-32-8	Benzo[a]pyrene	56		13	6.7
205-99-2	Benzo[b]fluoranthene	85		16	7.9
191-24-2	Benzo[g,h,i]perylene	49		26	5.7
207-08-9	Benzo[k]fluoranthene	53		10	4.7
218-01-9	Chrysene	89		12	5.8
53-70-3	Dibenz(a,h)anthracene	17	J	26	5.3
206-44-0	Fluoranthene	120		26	5.2
86-73-7	Fluorene	7.5	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	49		26	9.2
90-12-0	1-Methylnaphthalene	50	J	52	5.7
91-57-6	2-Methylnaphthalene	40	J	52	9.2
91-20-3	Naphthalene	56		52	5.7
85-01-8	Phenanthrene	75		10	5.1
129-00-0	Pyrene	82		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10028.D
Lab Smp Id: 680-88980-A-10-A Client Smp ID: CV0668A-CSD
Inj Date : 10-APR-2013 20:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-10-a
Misc Info : 680-88980-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	23.171	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		384805	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		281490	40.0000	
* 10 Phenanthrene-d10	188		5.709	5.710	(1.000)		526040	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		38538	5.21373	450.3064
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		613975	40.0000	
* 23 Perylene-d12	264		8.803	8.809	(1.000)		579314	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		6388	0.64632	55.8223(Q)
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		3143	0.46716	40.3479
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		3478	0.57451	49.6202(Q)
9 Fluorene	166		5.104	5.104	(1.070)		835	0.08680	7.4972(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		13336	0.87045	75.1806
12 Anthracene	178		5.757	5.763	(1.008)		3363	0.21654	18.7023
13 Carbazole	167		5.868	5.868	(1.028)		1191	0.08951	7.7308
15 Fluoranthene	202		6.556	6.557	(1.148)		23121	1.36650	118.0241

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Pyrene	202	6.727	6.727	(0.880)	16207	0.95293	82.3038
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	12493	0.83788	72.3673
19 Chrysene	228	7.662	7.668	(1.002)	17958	1.02643	88.6521
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.962)	16077	0.98164	84.7836
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.965)	9687	0.61155	52.8188
22 Benzo(a)pyrene	252	8.756	8.756	(0.995)	10036	0.65088	56.2157
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.128)	8232	0.56209	48.5474(M)
25 Dibenzo(a,h)anthracene	278	9.944	9.950	(1.130)	2659	0.19654	16.9753(M)
26 Benzo(g,h,i)perylene	276	10.262	10.280	(1.166)	8431	0.56405	48.7164

QC Flag Legend

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

Data File: 1CD10028.D

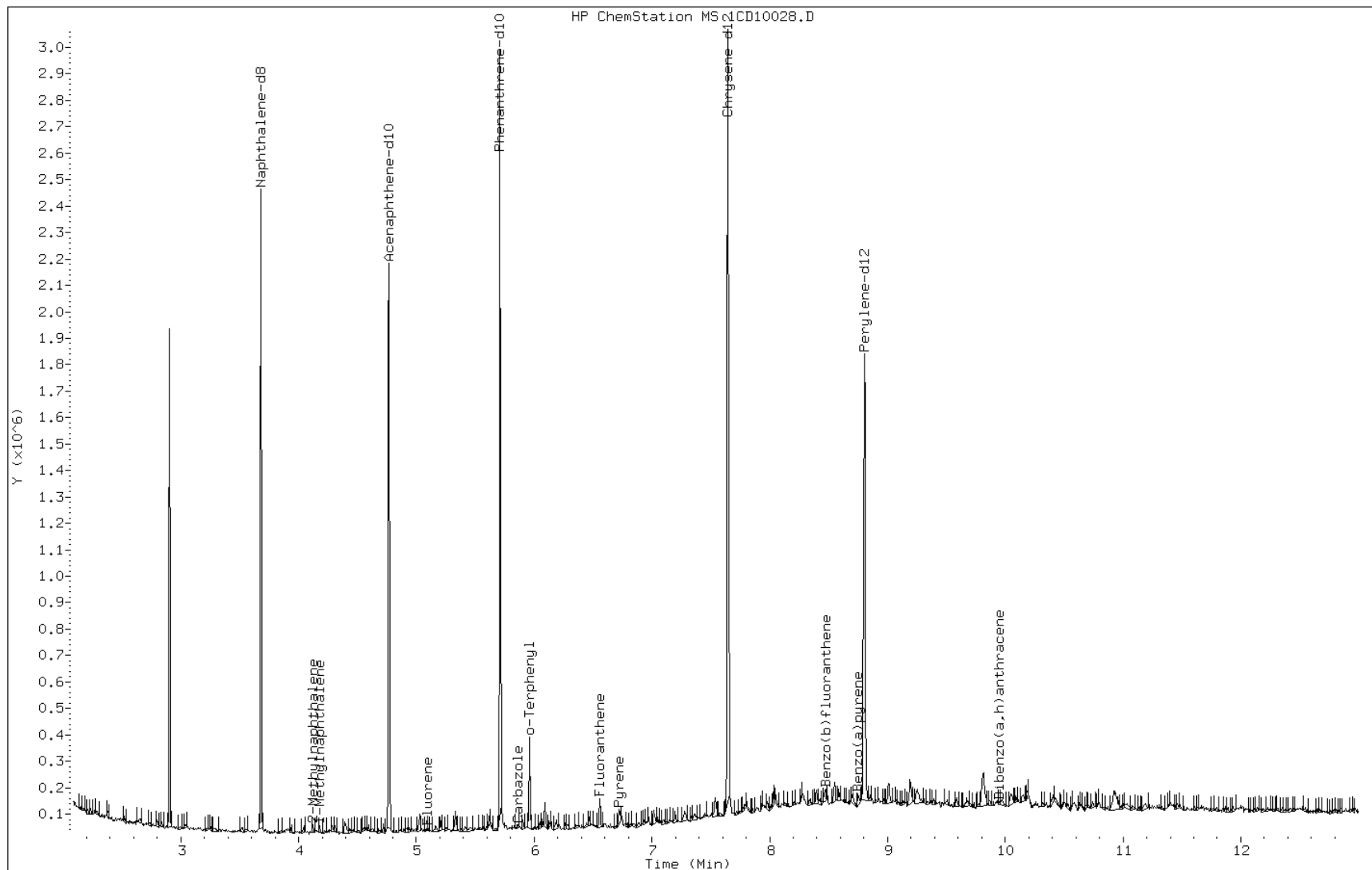
Date: 10-APR-2013 20:57

Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

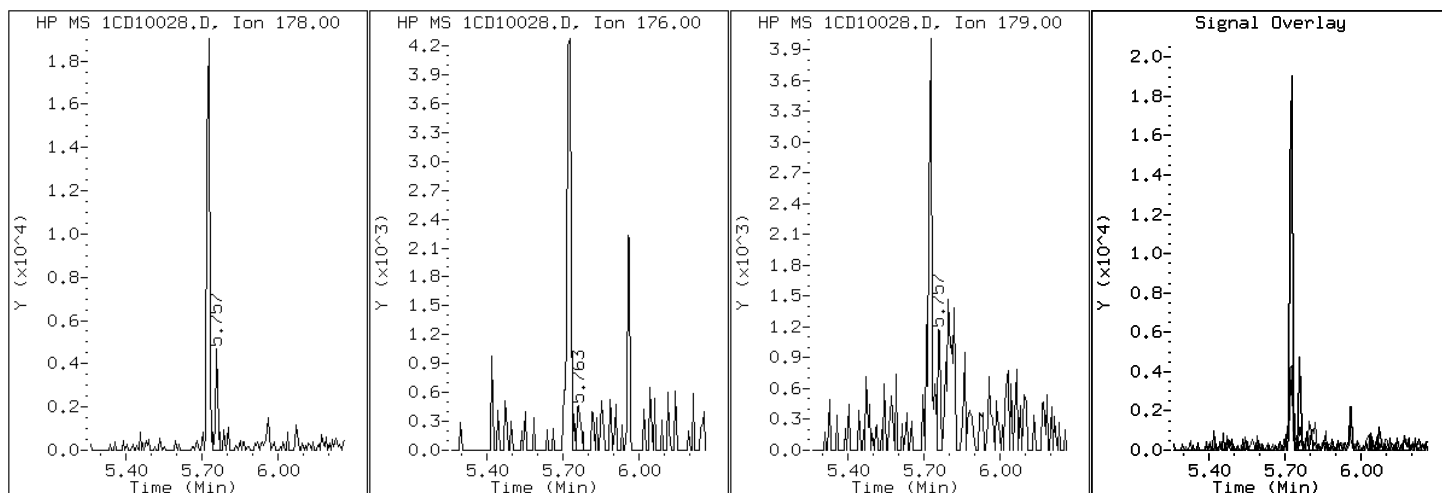
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

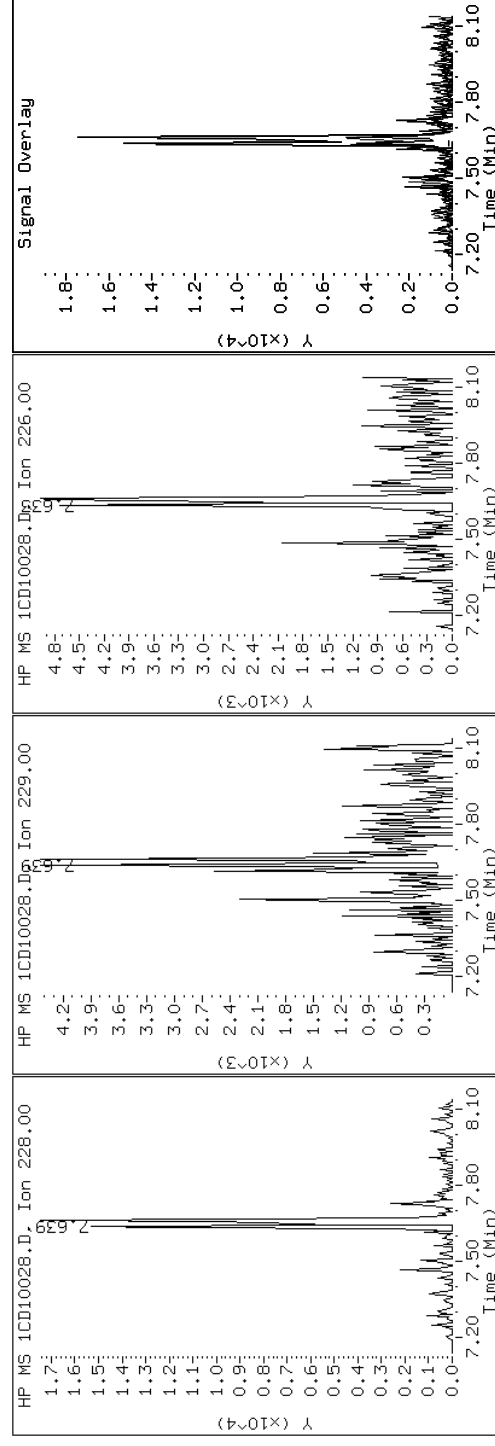
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

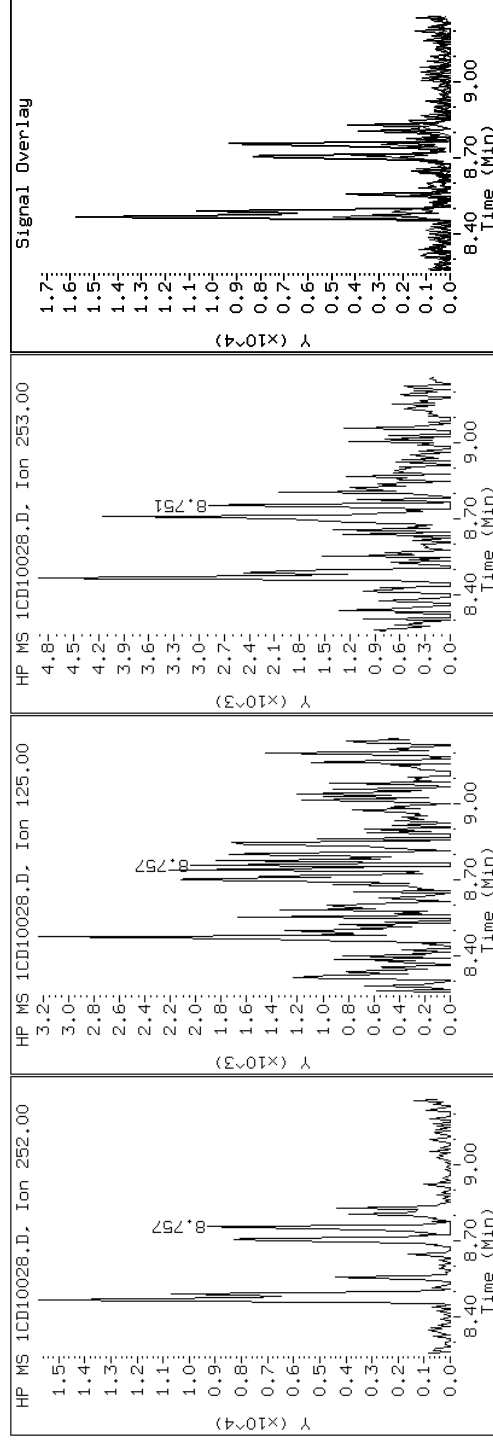
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

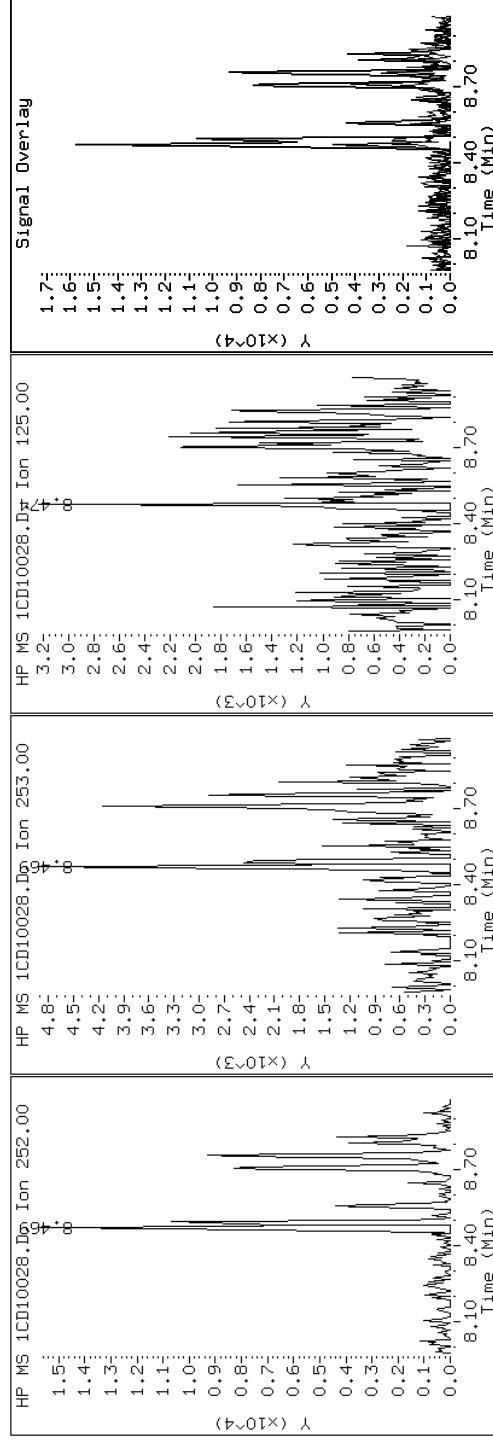
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

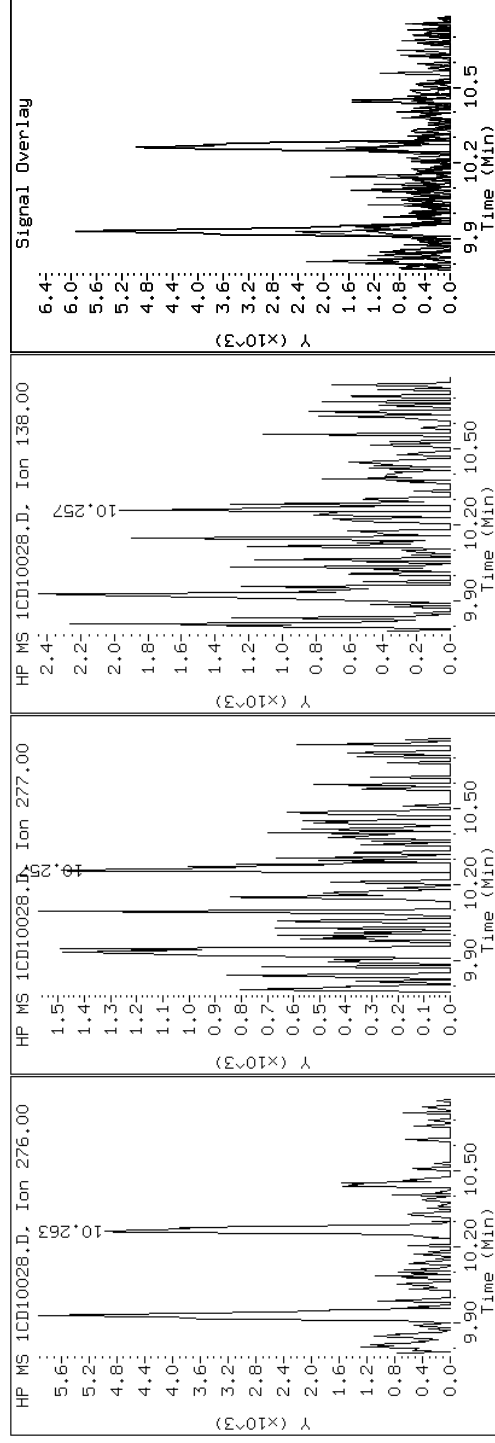
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

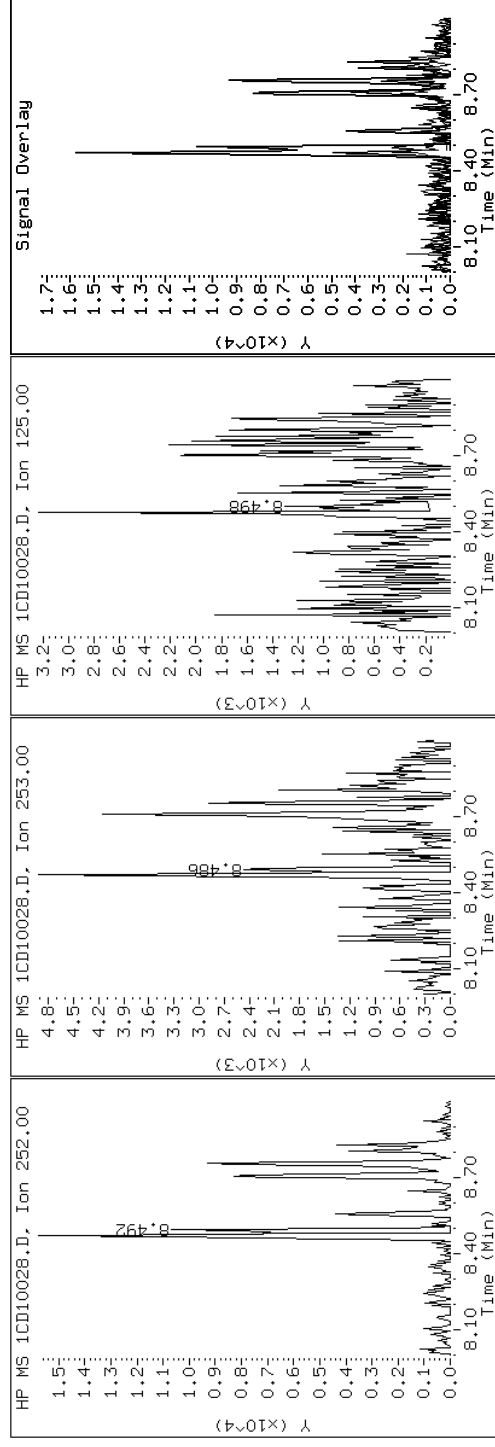
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

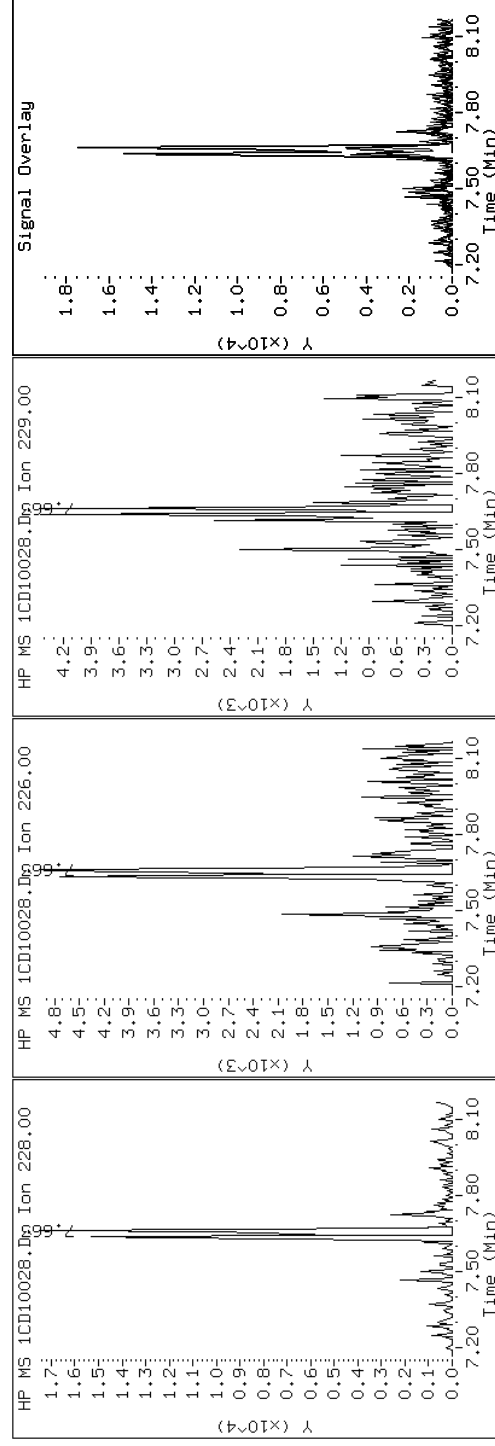
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

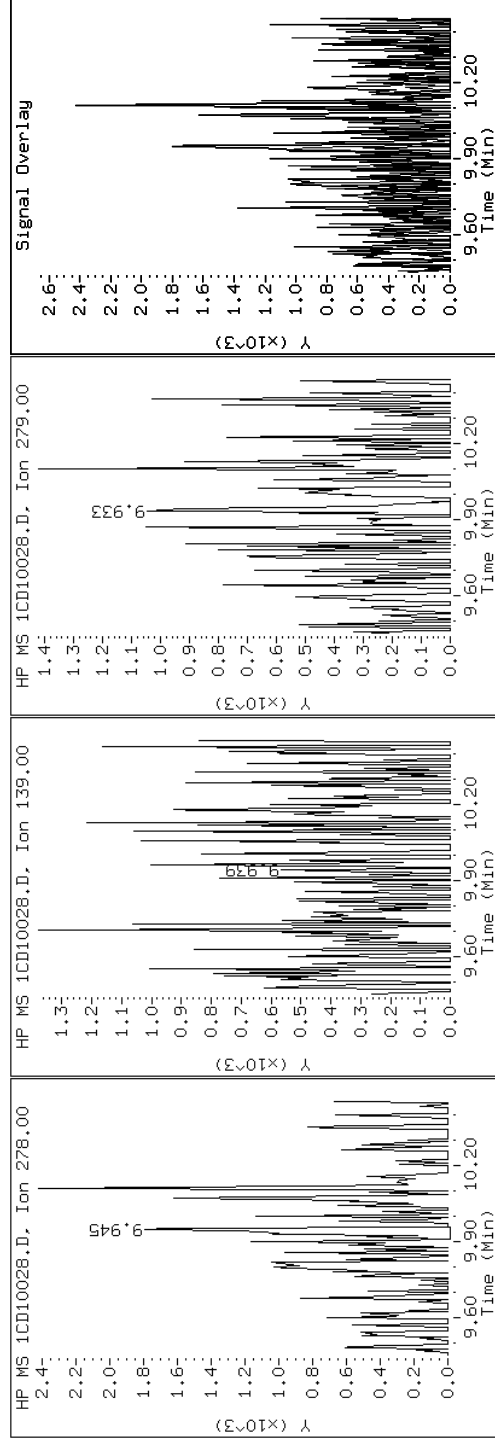
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

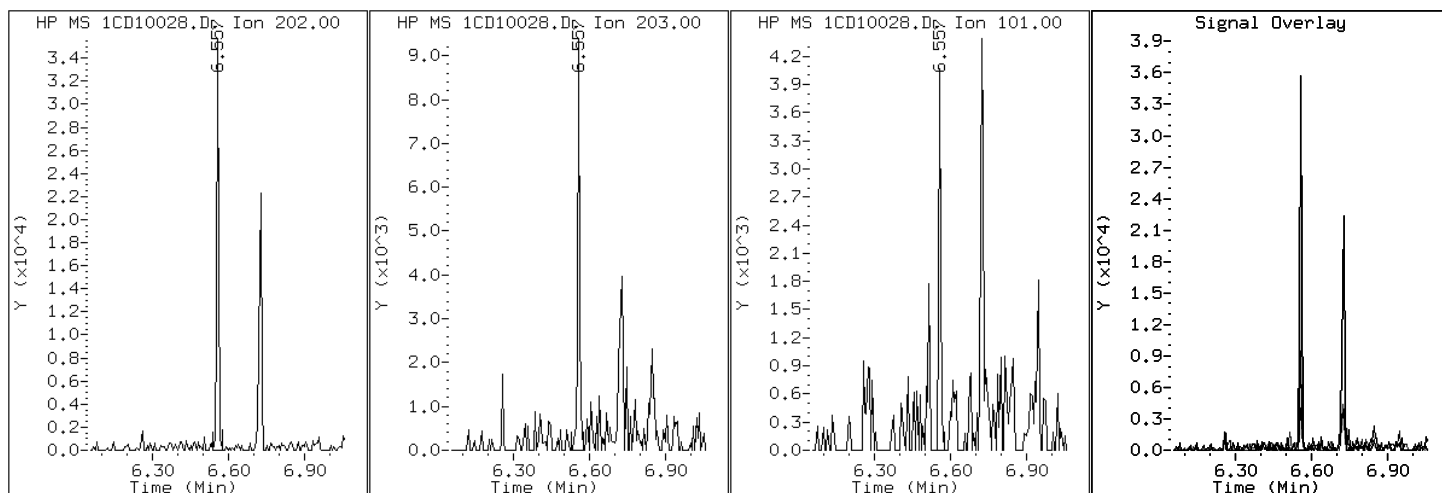
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

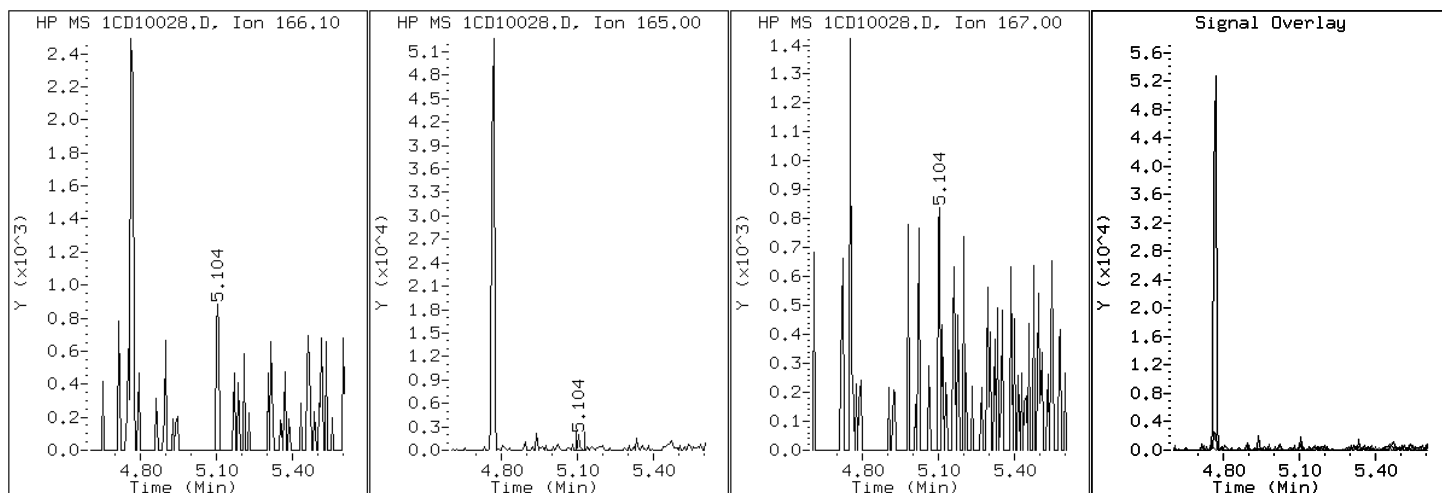
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

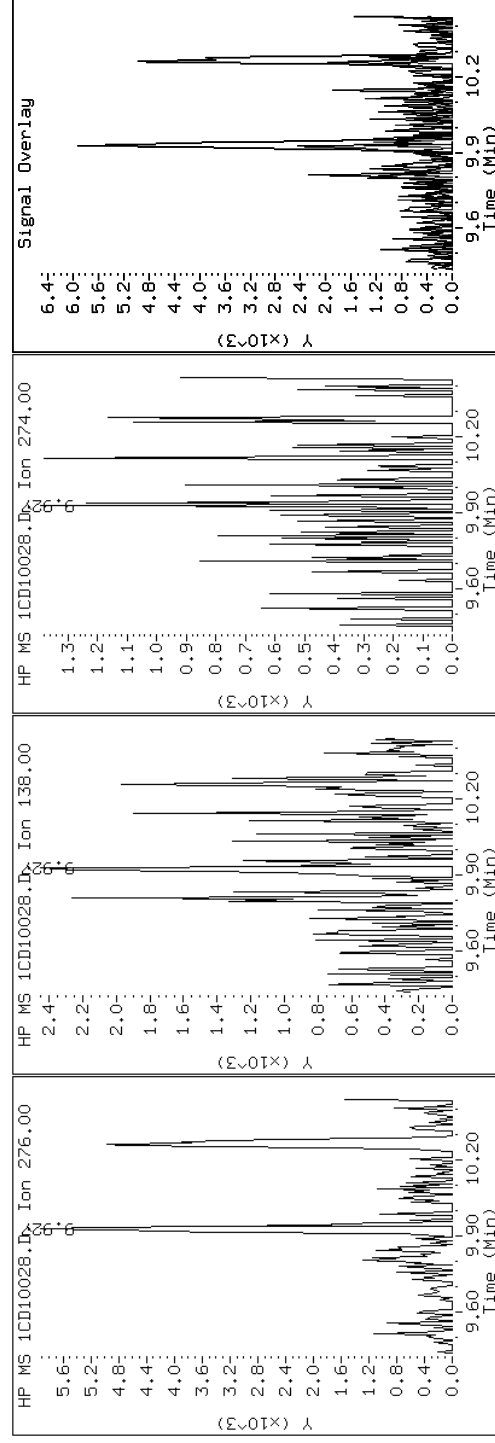
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

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



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

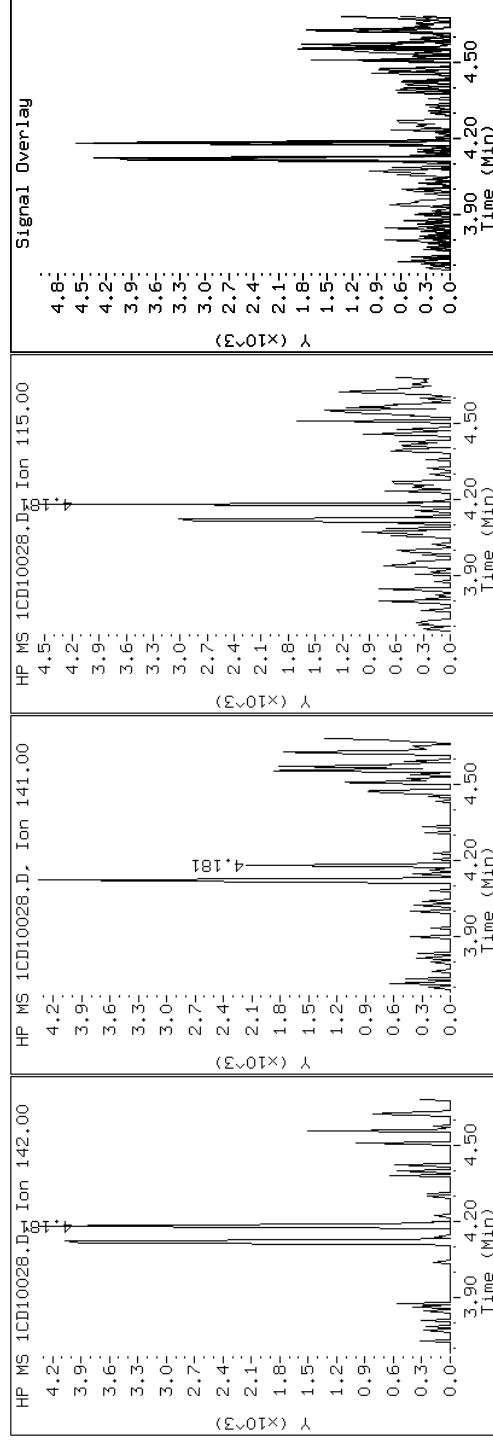
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

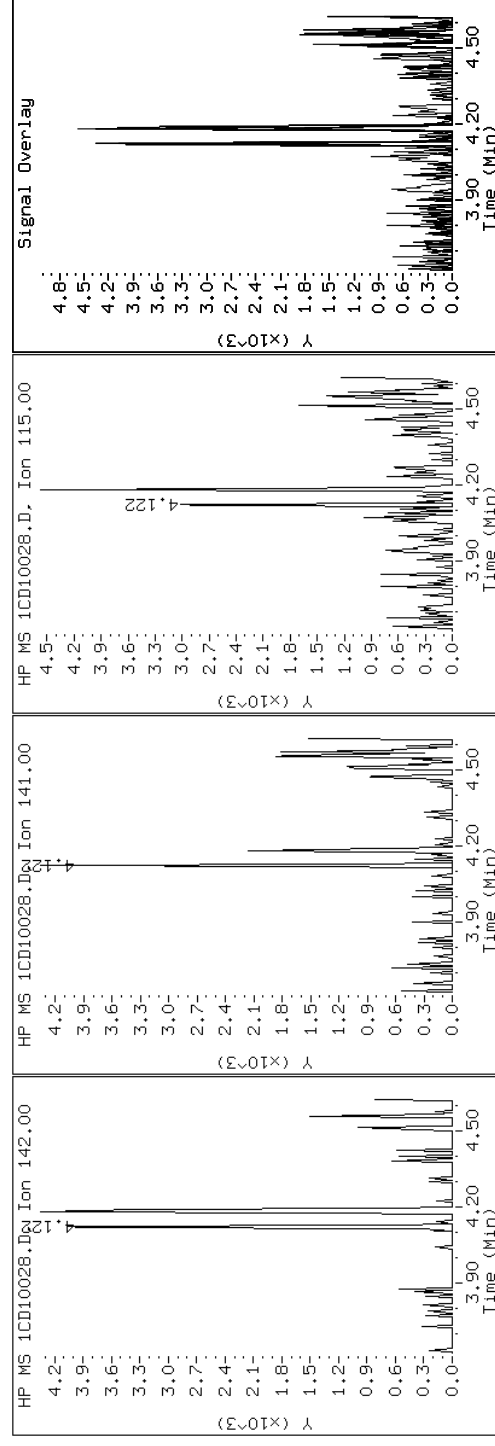
Client ID: CV0668A-CSD

Sample Info: 680-88980-a-10-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

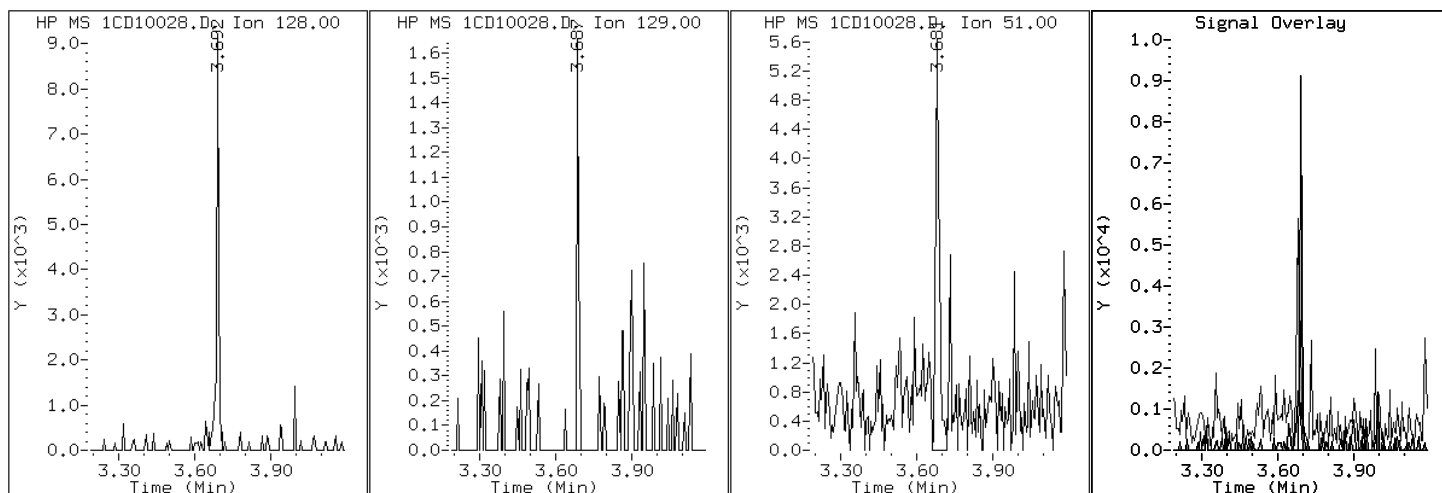
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

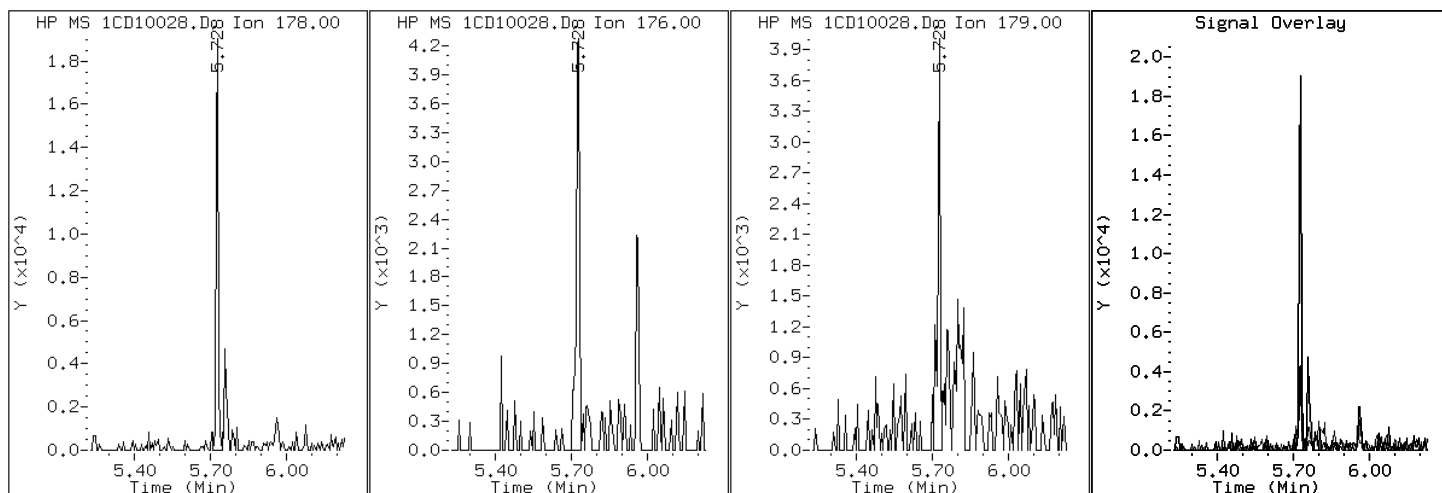
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10028.D

Date: 10-APR-2013 20:57

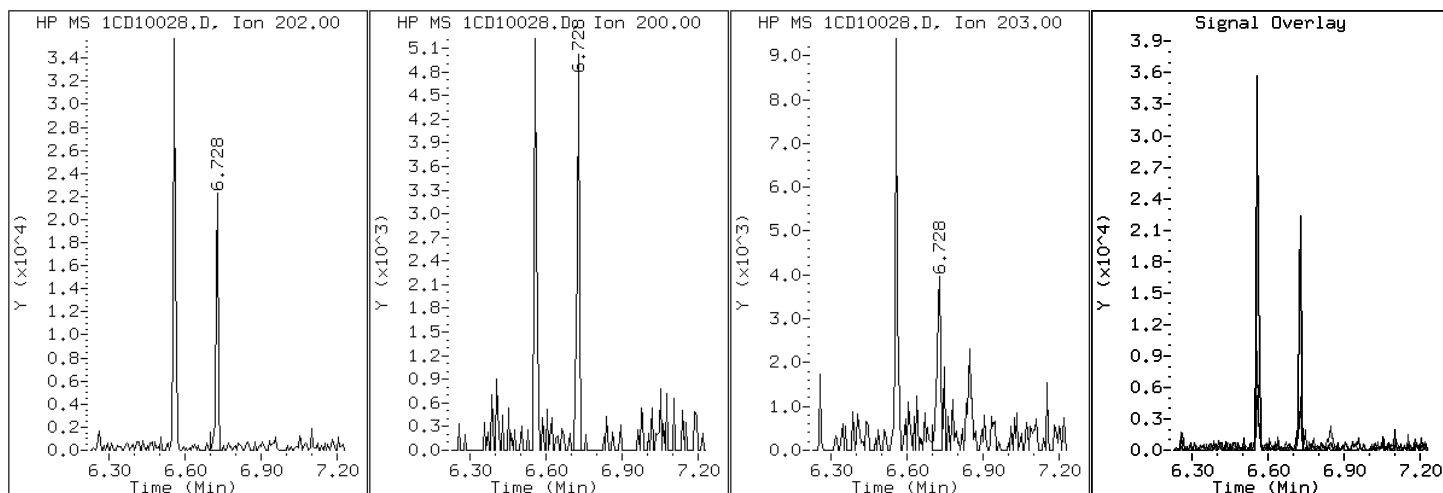
Client ID: CV0668A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88980-a-10-a

Operator: SCC

16 Pyrene

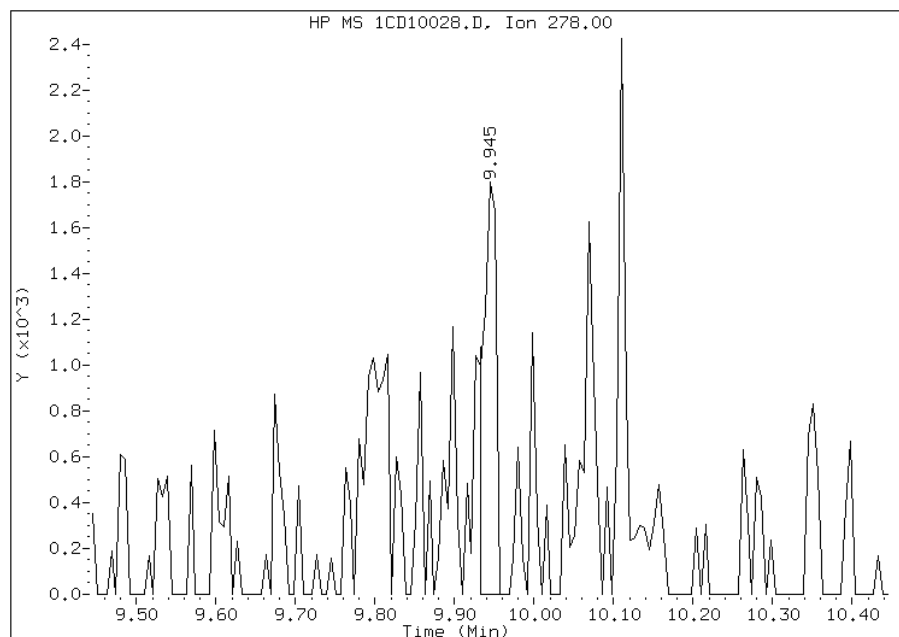


Manual Integration Report

Data File: 1CD10028.D
Inj. Date and Time: 10-APR-2013 20:57
Instrument ID: BSMC5973.i
Client ID: CV0668A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

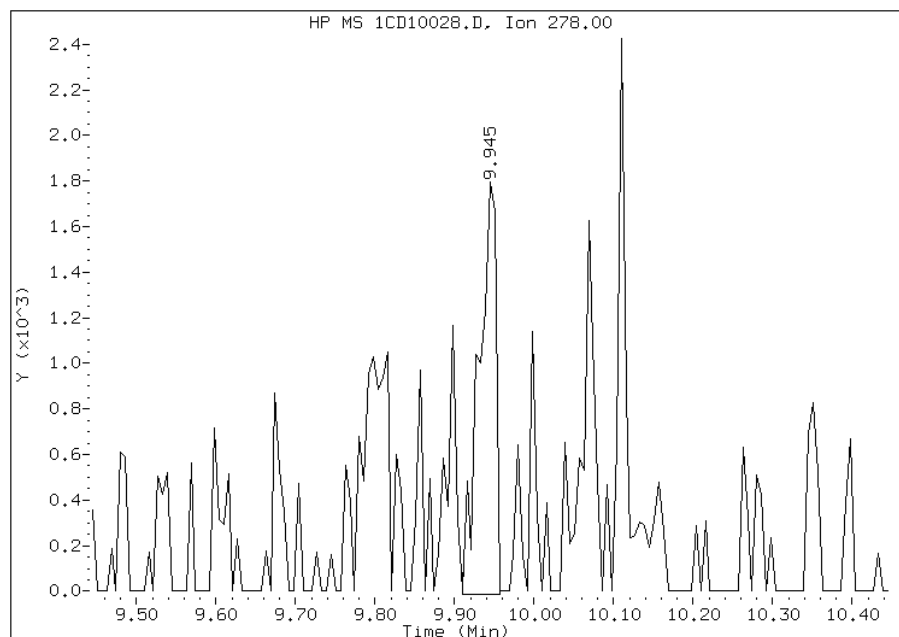
Processing Integration Results

RT: 9.94
Response: 2013
Amount: 0
Conc: 13



Manual Integration Results

RT: 9.94
Response: 2659
Amount: 0
Conc: 17



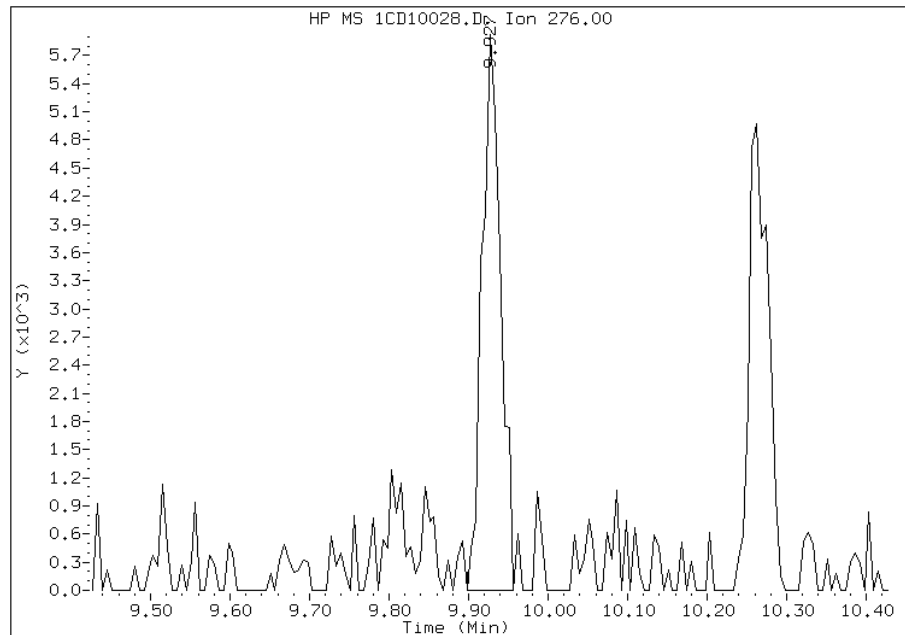
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10028.D
Inj. Date and Time: 10-APR-2013 20:57
Instrument ID: BSMC5973.i
Client ID: CV0668A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

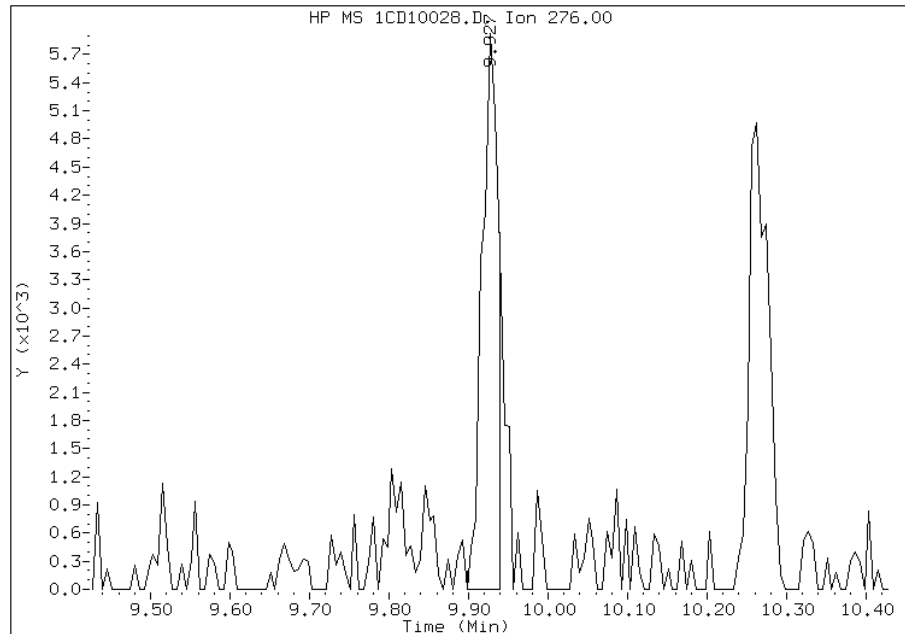
Processing Integration Results

RT: 9.93
Response: 9459
Amount: 1
Conc: 56



Manual Integration Results

RT: 9.93
Response: 8232
Amount: 1
Conc: 49



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0668B-CS</u>	Lab Sample ID: <u>680-88980-11</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 08:48</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.19(g)</u>	Date Analyzed: <u>04/10/2013 21:15</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>40.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	33
208-96-8	Acenaphthylene	9.5	J	66	8.3
120-12-7	Anthracene	14	U	14	7.0
56-55-3	Benzo[a]anthracene	13	U	13	6.5
50-32-8	Benzo[a]pyrene	18		17	8.6
205-99-2	Benzo[b]fluoranthene	34		20	10
191-24-2	Benzo[g,h,i]perylene	12	J	33	7.3
207-08-9	Benzo[k]fluoranthene	13		13	6.0
218-01-9	Chrysene	19		15	7.5
53-70-3	Dibenz(a,h)anthracene	11	J	33	6.8
206-44-0	Fluoranthene	27	J	33	6.6
86-73-7	Fluorene	33	U	33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	13	J	33	12
90-12-0	1-Methylnaphthalene	11	J	66	7.3
91-57-6	2-Methylnaphthalene	24	J	66	12
91-20-3	Naphthalene	26	J	66	7.3
85-01-8	Phenanthrene	24		13	6.5
129-00-0	Pyrene	17	J	33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10029.D
Lab Smp Id: 680-88980-A-11-A Client Smp ID: CV0668B-CS
Inj Date : 10-APR-2013 21:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-11-a
Misc Info : 680-88980-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	40.426	% 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

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	3.680	3.680	(1.000)	372482	40.0000		
*	6 Acenaphthene-d10	164	4.769	4.768	(1.000)	274224	40.0000		
*	10 Phenanthrene-d10	188	5.710	5.710	(1.000)	522790	40.0000		
\$	14 o-Terphenyl	230	5.963	5.963	(1.044)	46825	6.21278	686.5431	
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	605381	40.0000		
*	23 Perylene-d12	264	8.804	8.809	(1.000)	586219	40.0000		
	2 Naphthalene	128	3.692	3.692	(1.003)	2248	0.23497	25.9655(Q)	
	3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	1396	0.21436	23.6875	
	4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	595	0.10154	11.2202(Q)	
	5 Acenaphthylene	152	4.674	4.680	(0.980)	972	0.08564	9.4639	
	11 Phenanthrene	178	5.727	5.727	(1.003)	3372	0.22146	24.4726	
	15 Fluoranthene	202	6.557	6.557	(1.148)	4078	0.24252	26.7993	
	16 Pyrene	202	6.727	6.727	(0.880)	2538	0.15135	16.7244	
	19 Chrysene	228	7.651	7.668	(1.001)	2983	0.17292	19.1085(M)	

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.963)	5028	0.30339	33.5257(M)
21 Benzo(k)fluoranthene	252	8.480	8.498	(0.963)	1904	0.11878	13.1263(QM)
22 Benzo(a)pyrene	252	8.751	8.756	(0.994)	2567	0.16452	18.1802
24 Indeno(1,2,3-cd)pyrene	276	9.915	9.939	(1.126)	1801	0.12153	13.4292
25 Dibenzo(a,h)anthracene	278	9.951	9.950	(1.130)	1330	0.09715	10.7356(M)
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	1624	0.10737	11.8647

QC Flag Legend

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

Data File: 1CD10029.D

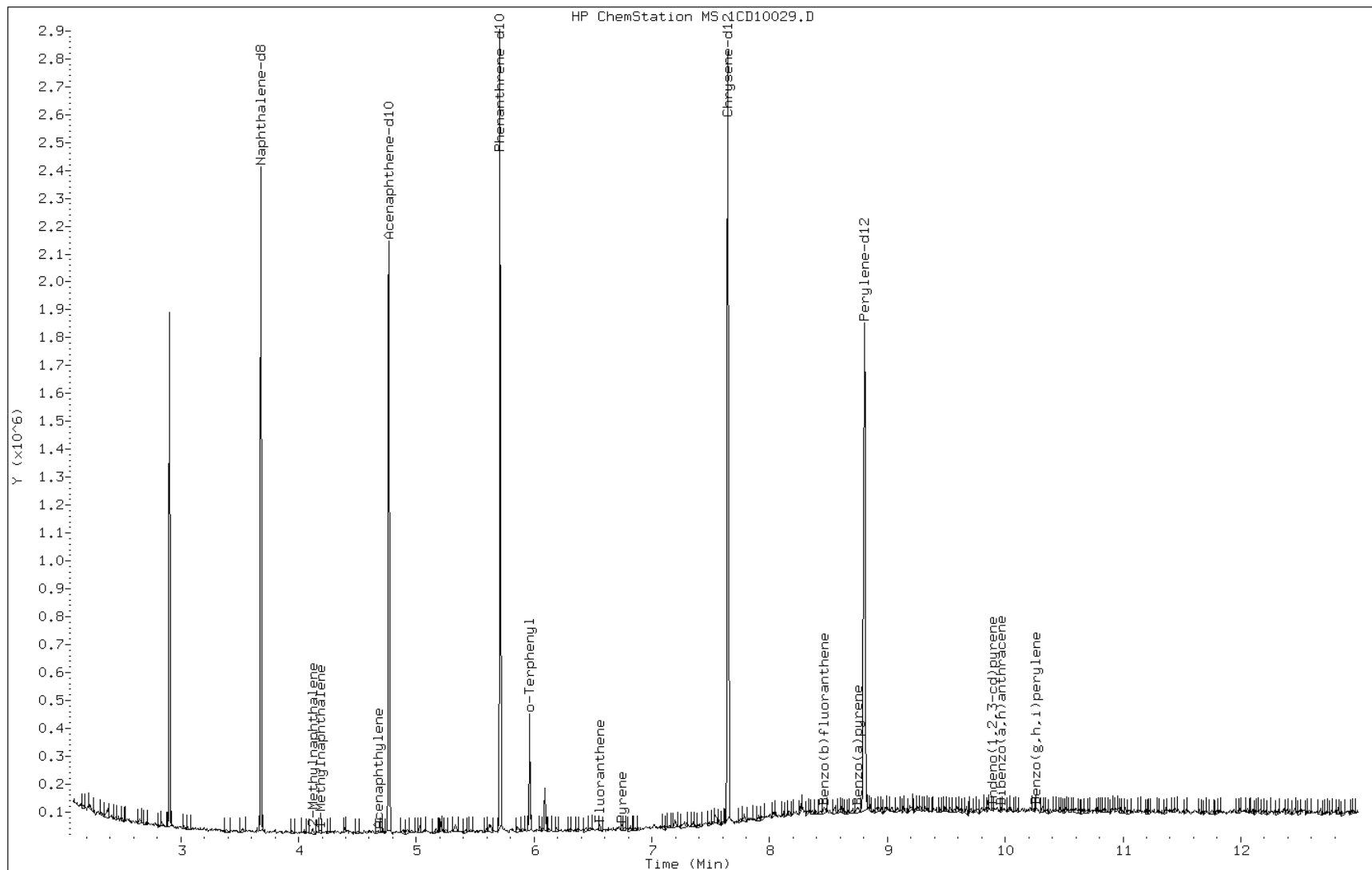
Date: 10-APR-2013 21:15

Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

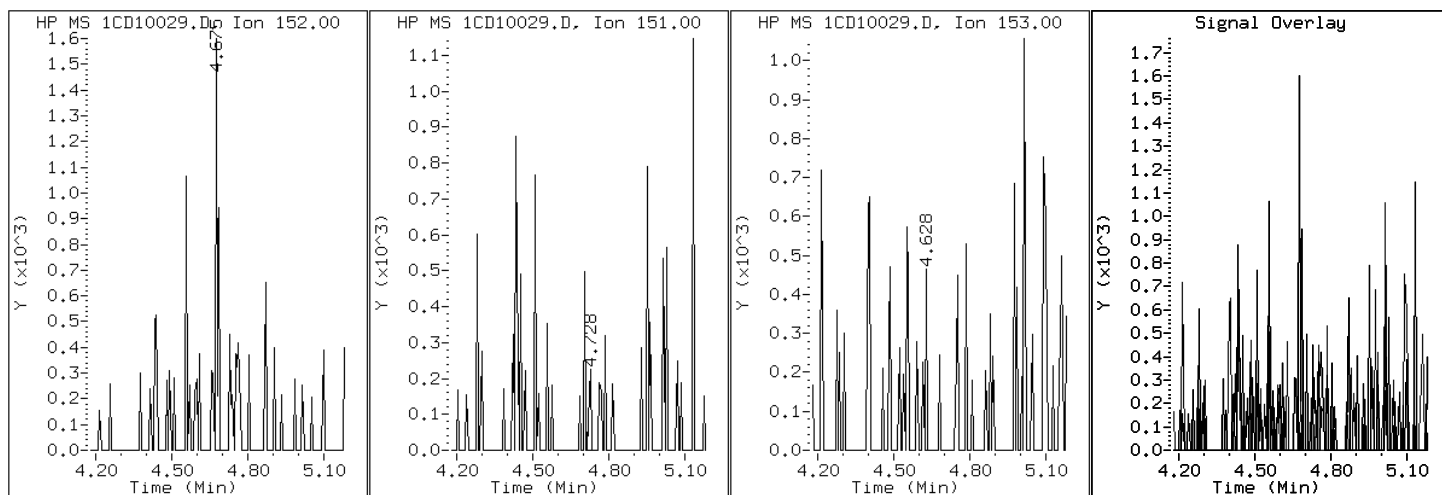
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

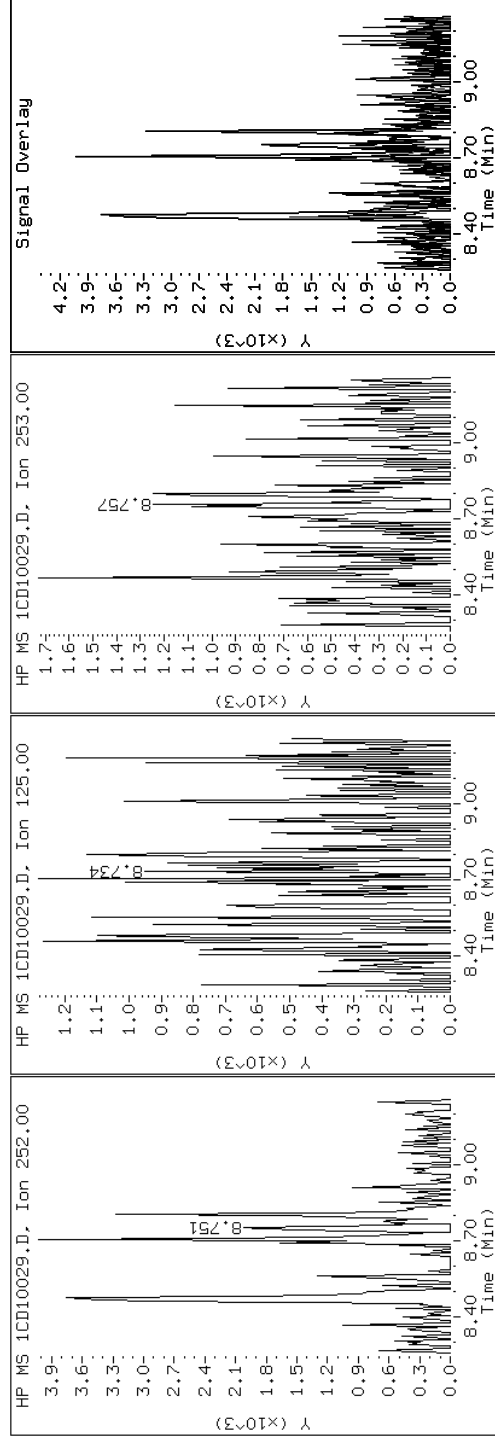
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

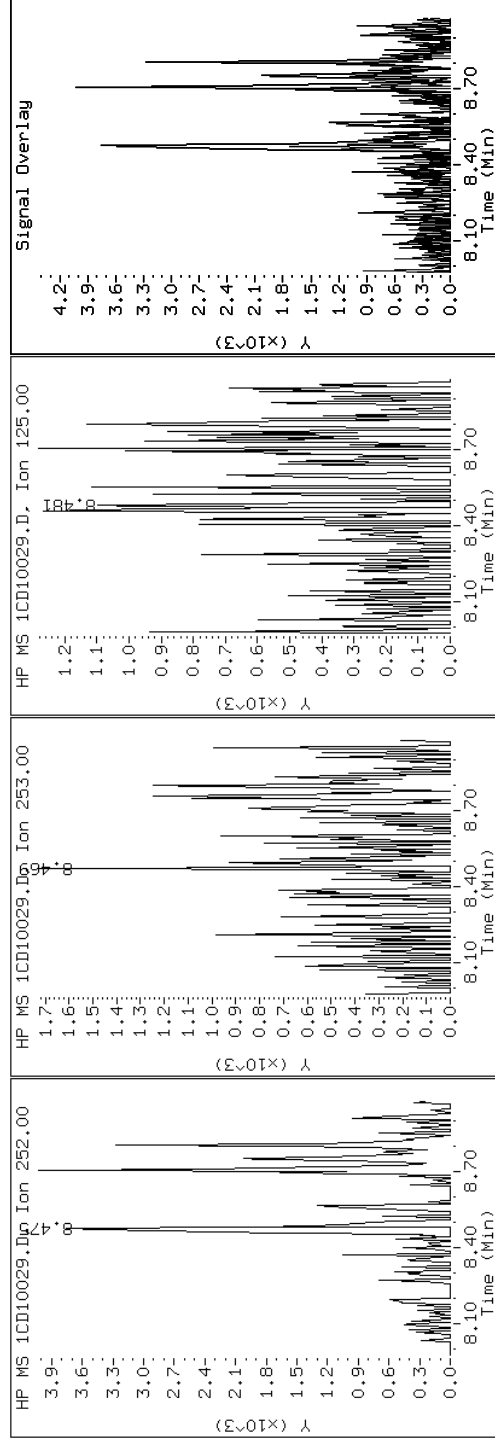
Client ID: CV0668B-CS

Sample Info: 680-88980-a-11-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

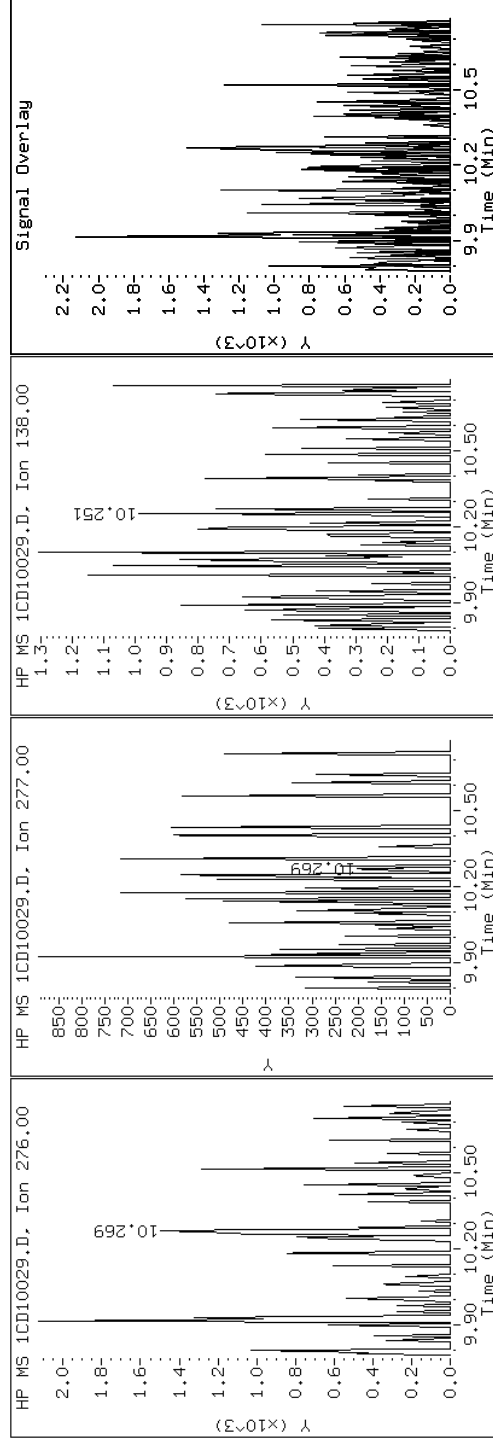
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

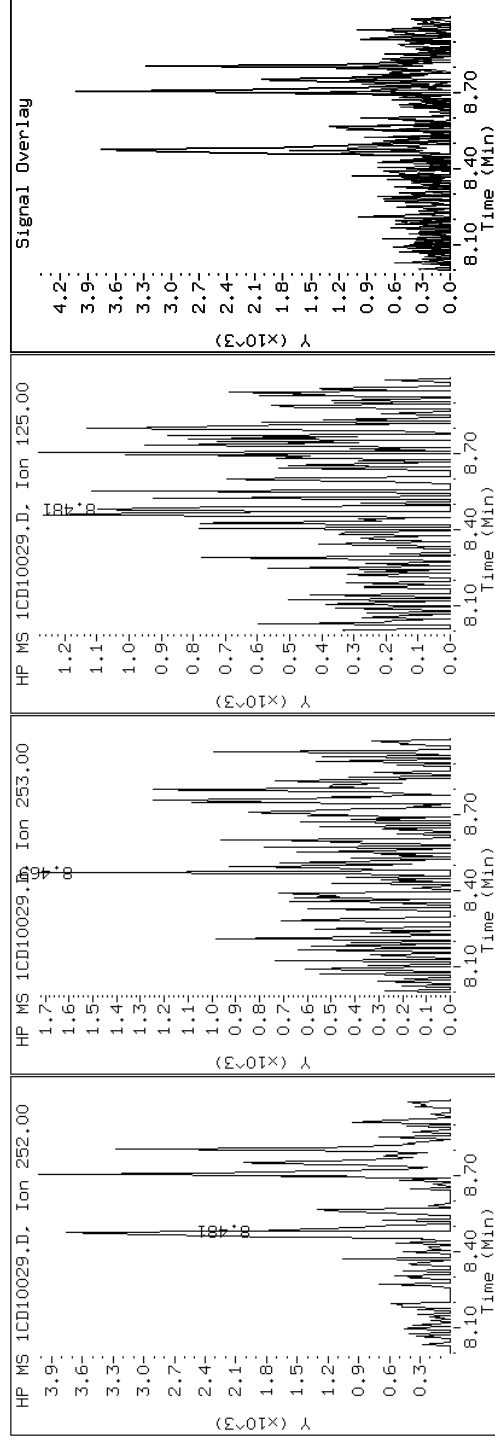
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

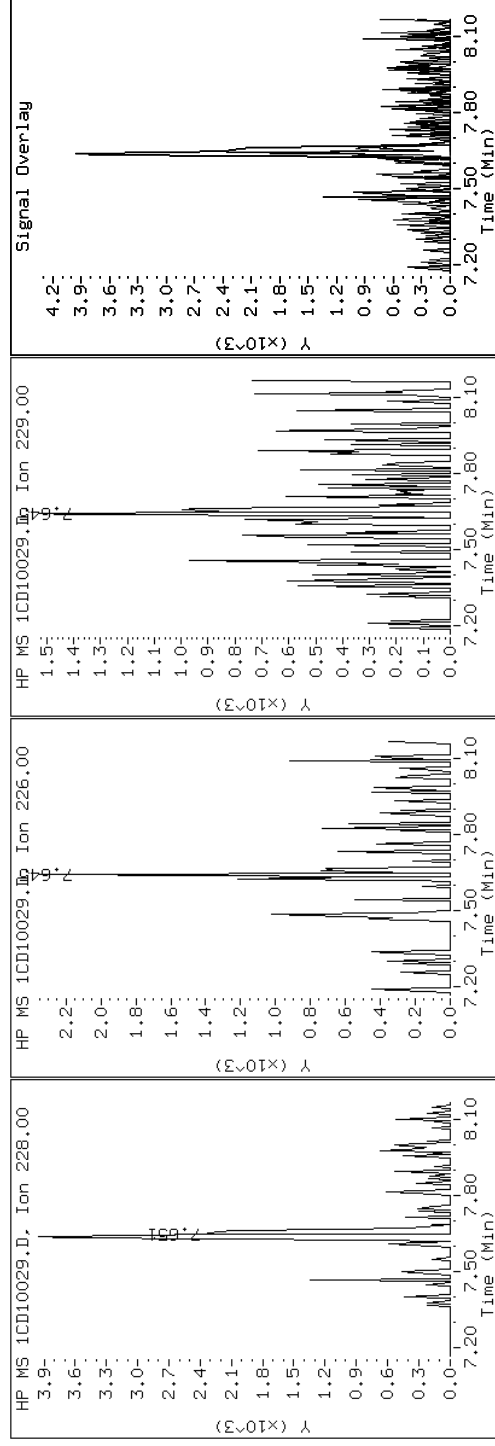
Client ID: CV0668B-CS

Sample Info: 680-88980-a-11-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

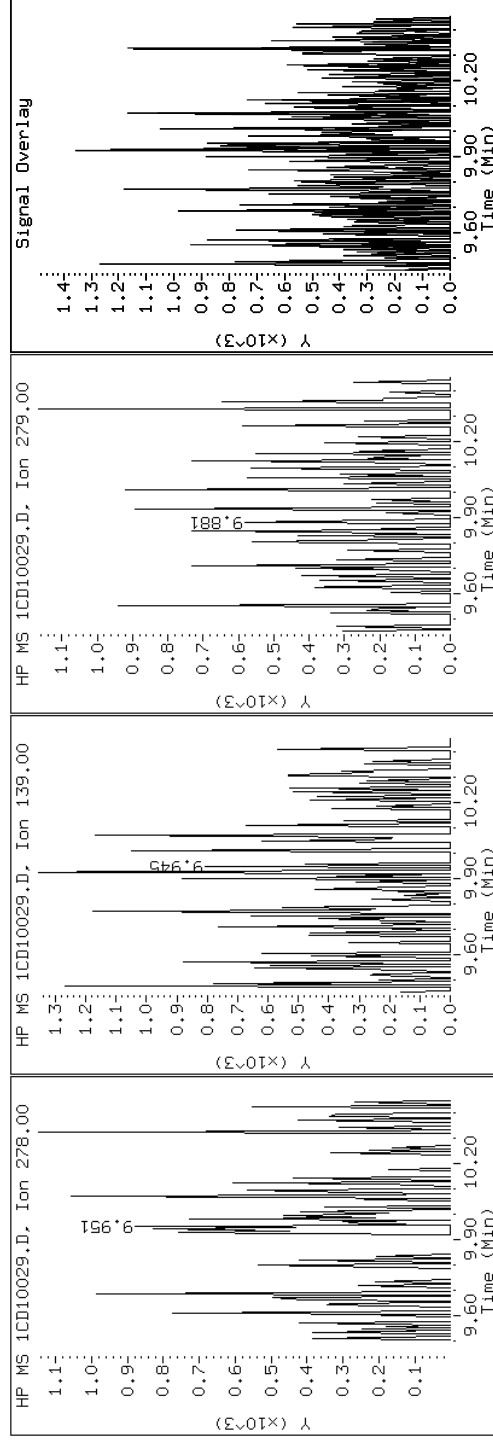
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

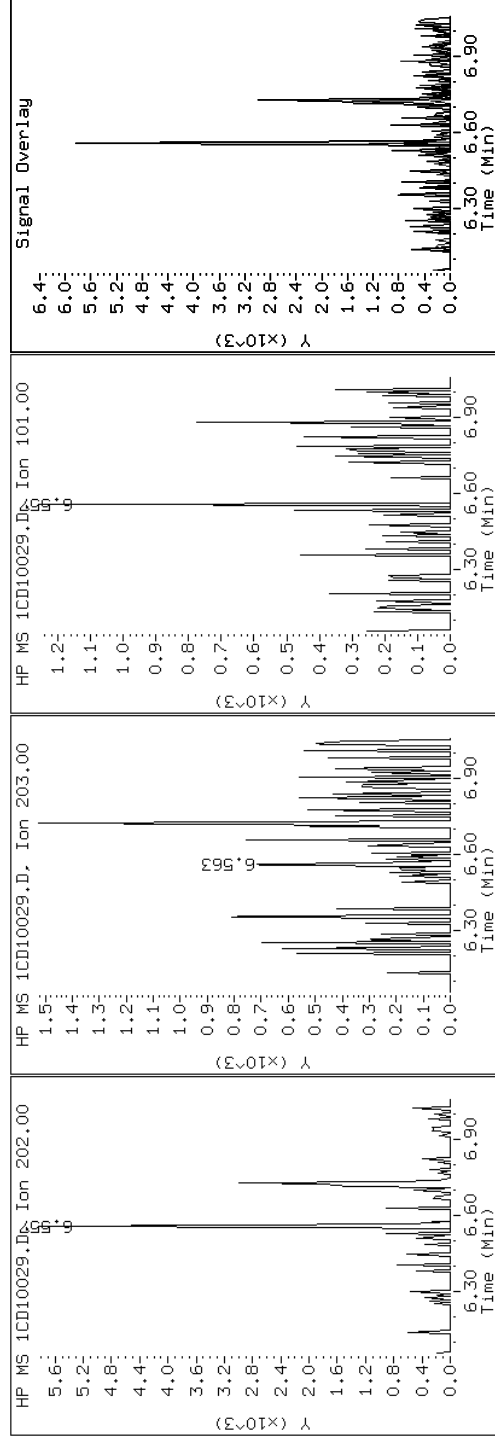
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

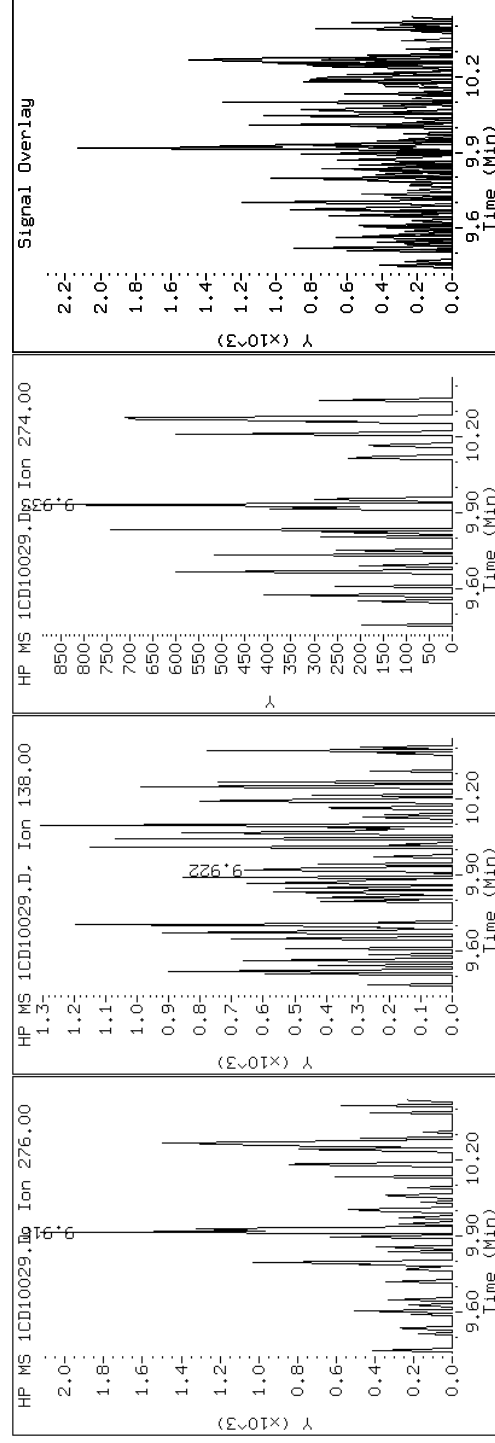
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

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



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

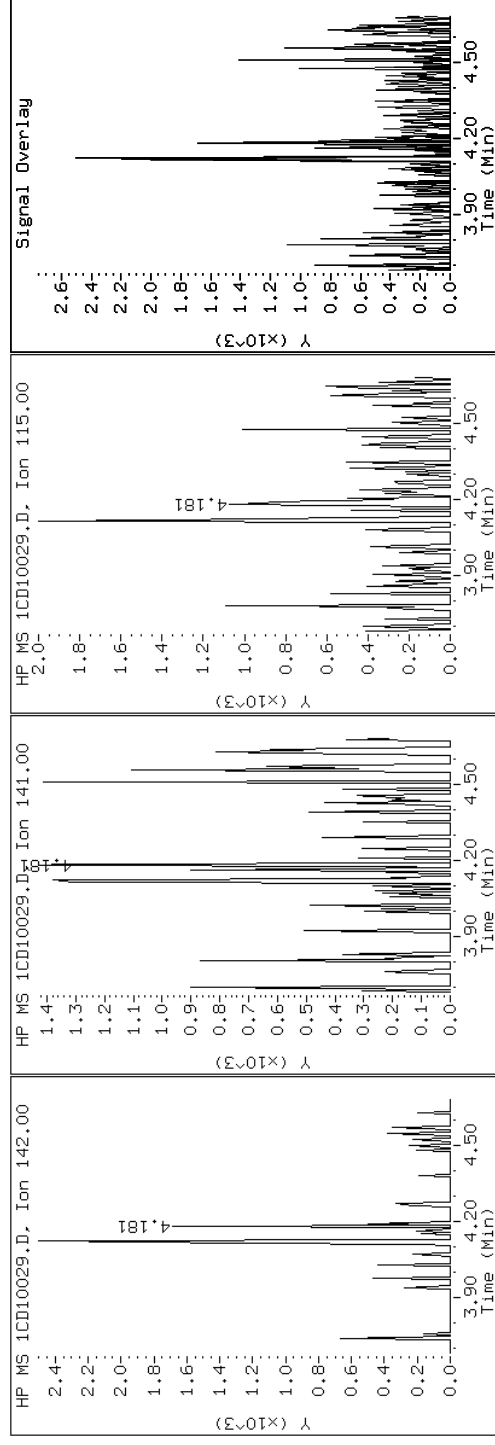
Client ID: CV0668B-CS

Sample Info: 680-88980-a-11-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

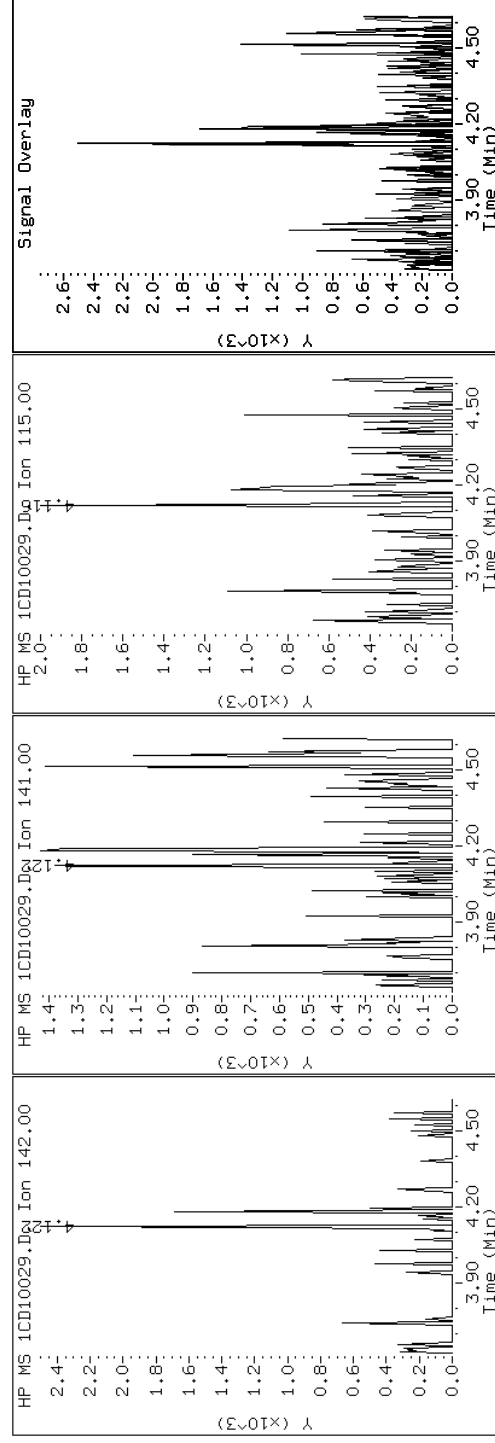
Client ID: CV0668B-CS

Sample Info: 680-88980-a-11-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

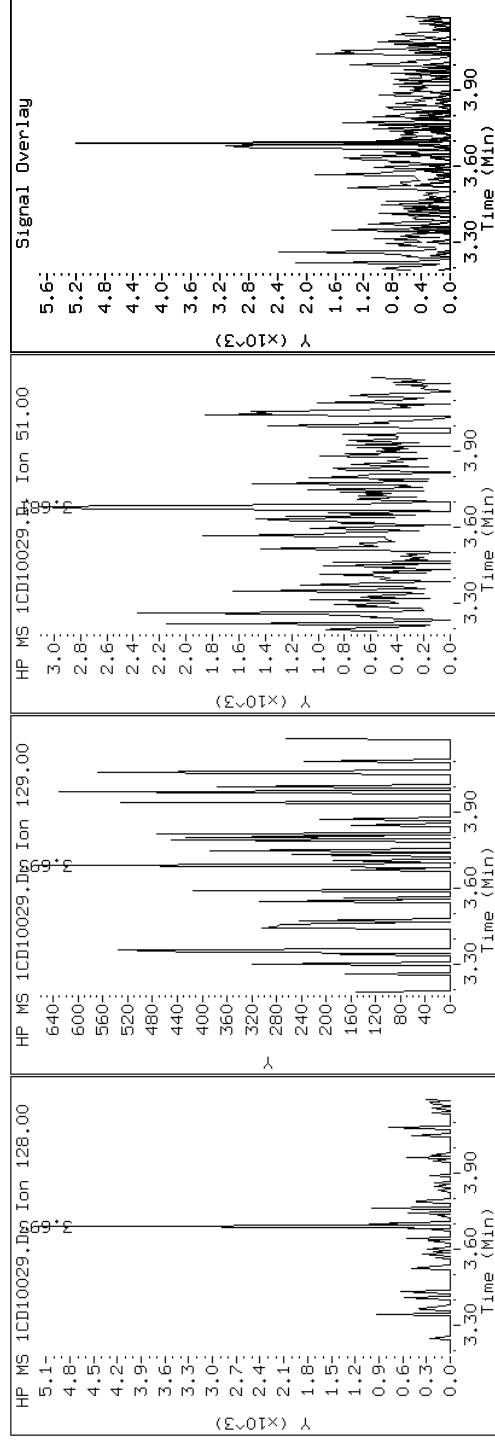
Client ID: CV0668B-CS

Sample Info: 680-88980-a-11-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

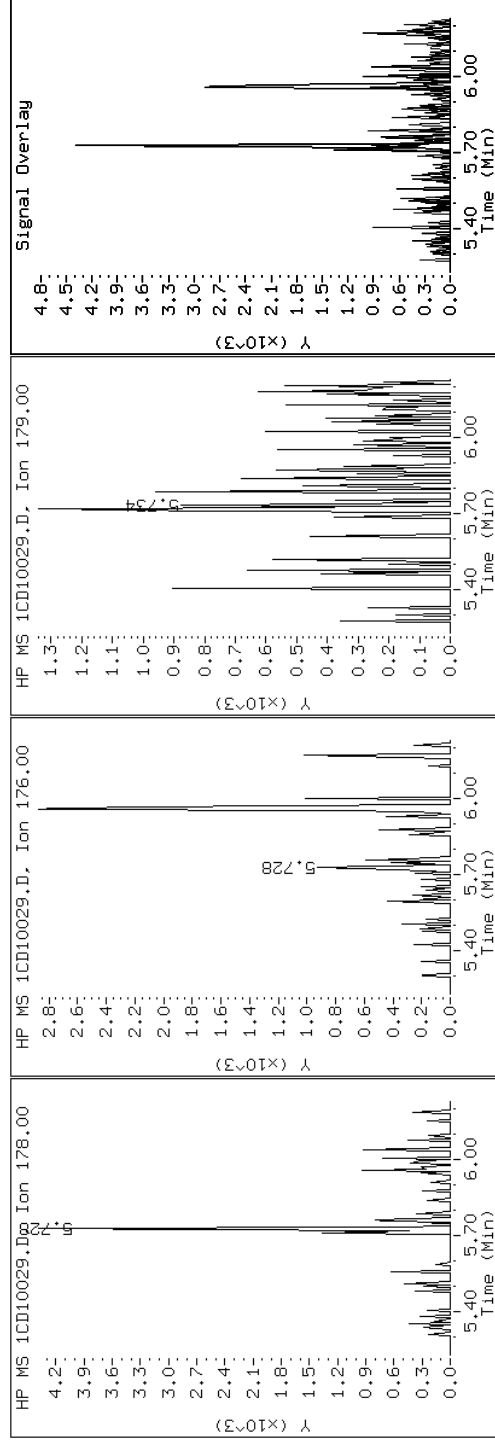
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10029.D

Date: 10-APR-2013 21:15

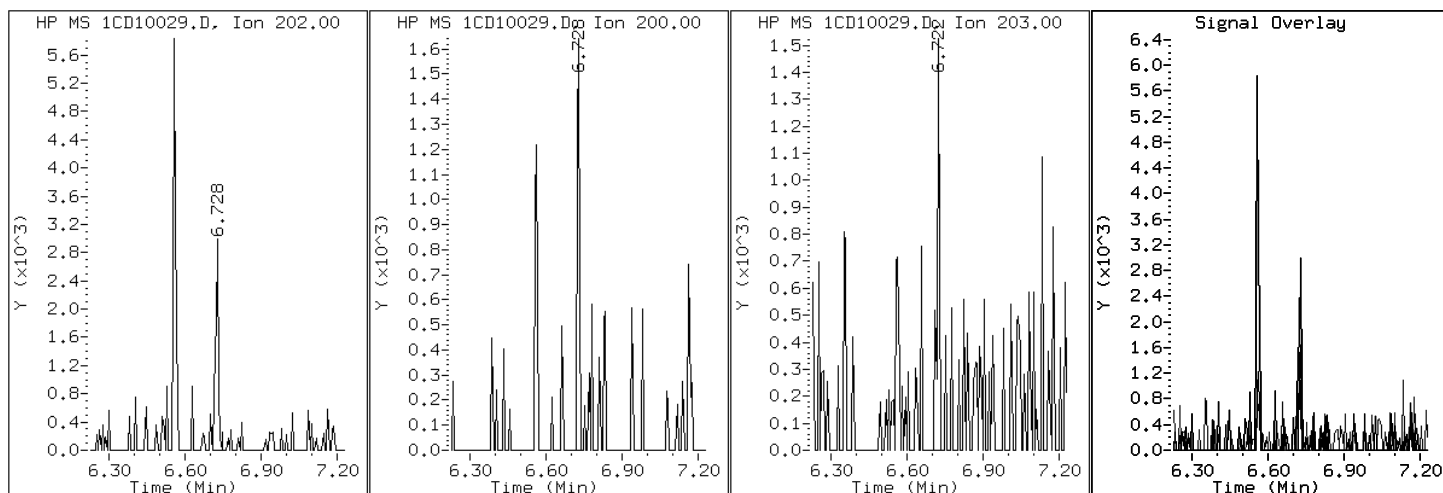
Client ID: CV0668B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-11-a

Operator: SCC

16 Pyrene

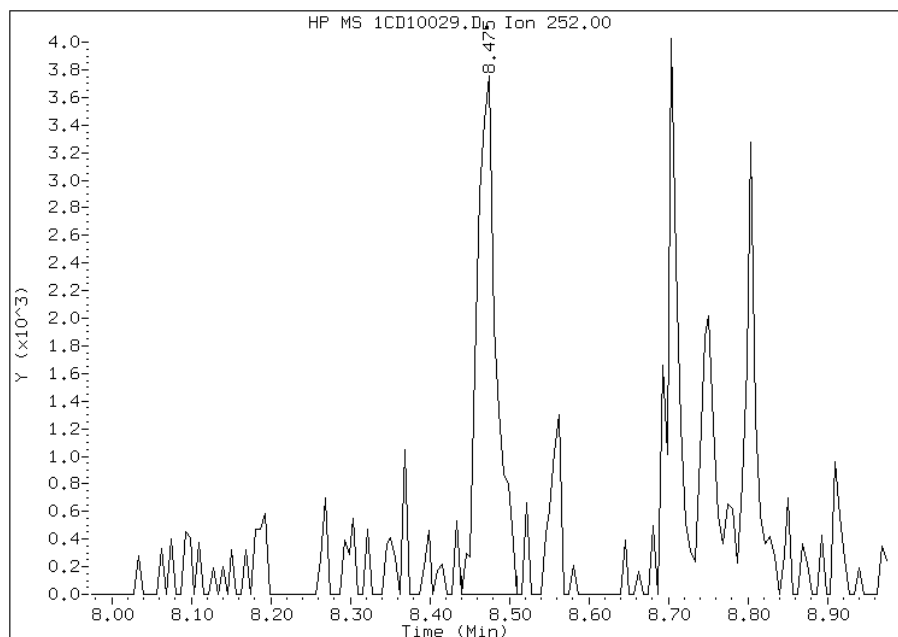


Manual Integration Report

Data File: 1CD10029.D
Inj. Date and Time: 10-APR-2013 21:15
Instrument ID: BSMC5973.i
Client ID: CV0668B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

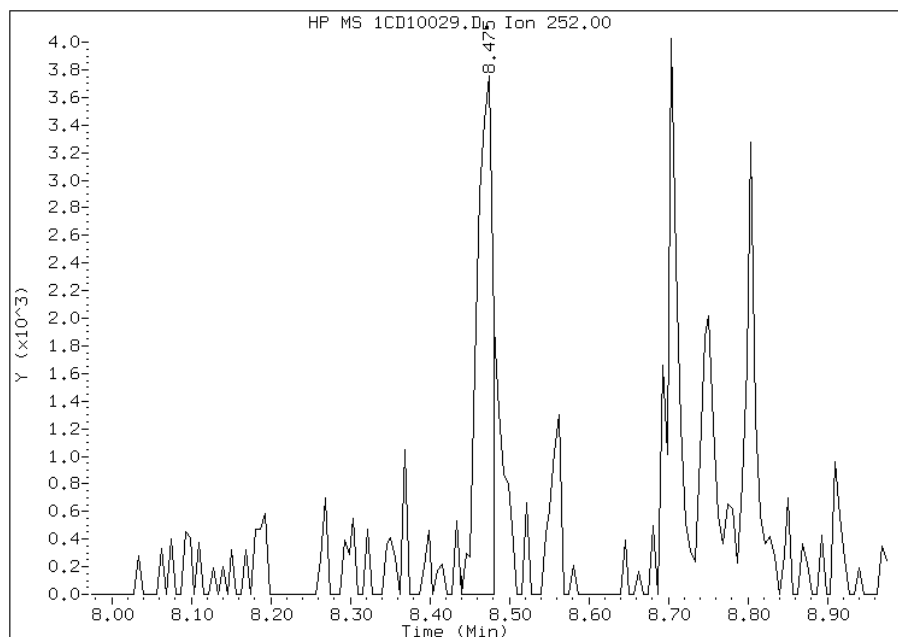
Processing Integration Results

RT: 8.47
Response: 6259
Amount: 0
Conc: 42



Manual Integration Results

RT: 8.47
Response: 5028
Amount: 0
Conc: 34



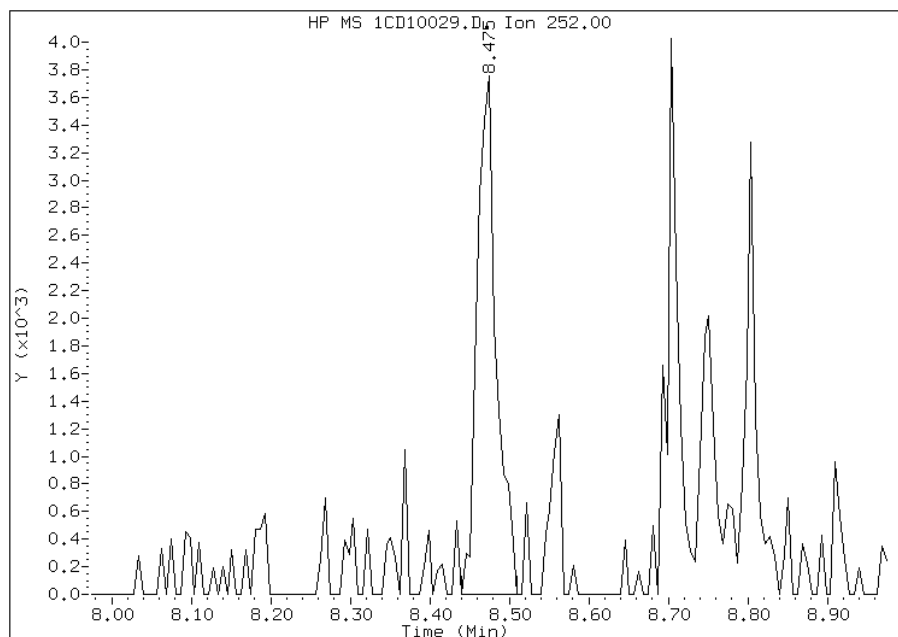
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10029.D
Inj. Date and Time: 10-APR-2013 21:15
Instrument ID: BSMC5973.i
Client ID: CV0668B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

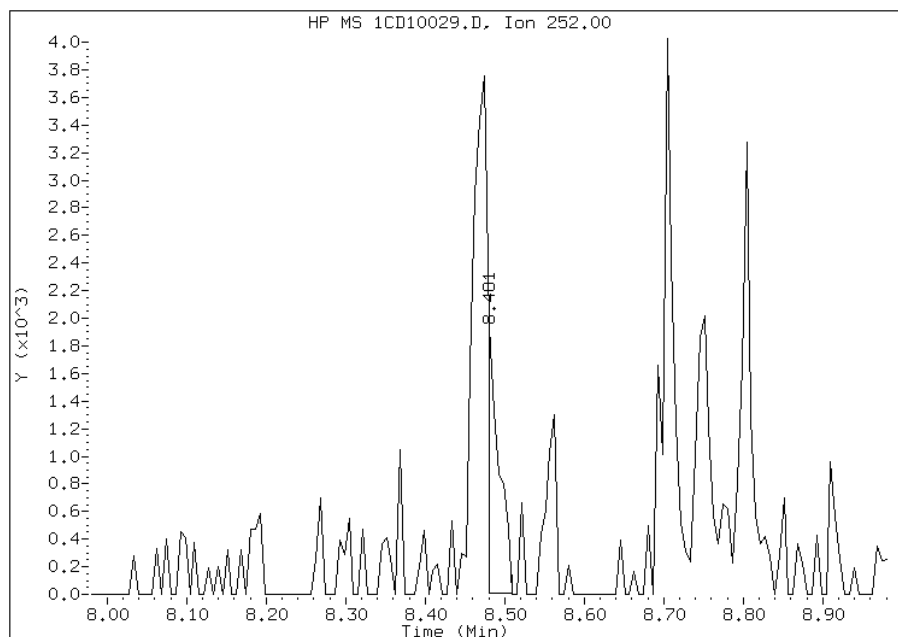
Processing Integration Results

RT: 8.47
Response: 6259
Amount: 0
Conc: 43



Manual Integration Results

RT: 8.48
Response: 1904
Amount: 0
Conc: 13



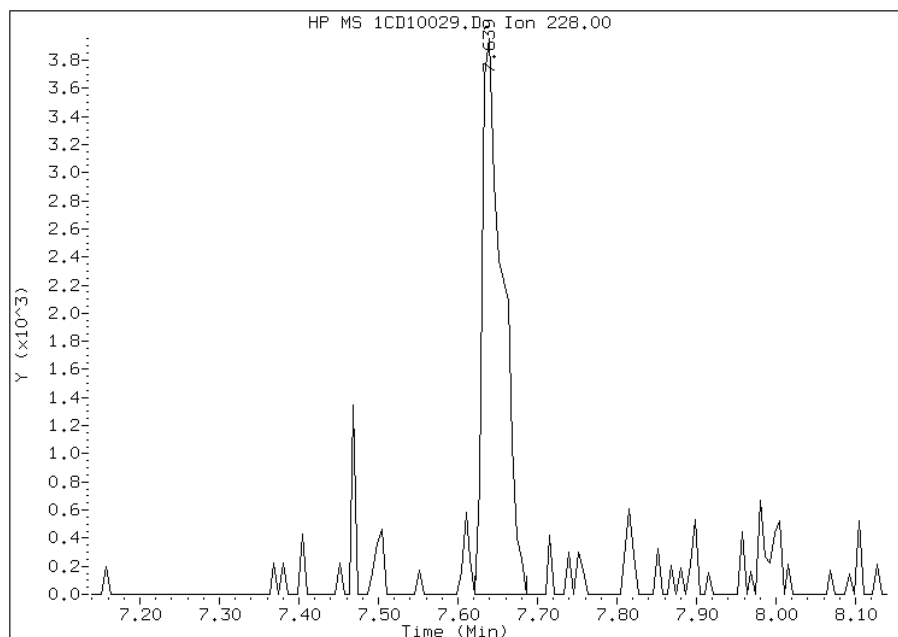
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10029.D
Inj. Date and Time: 10-APR-2013 21:15
Instrument ID: BSMC5973.i
Client ID: CV0668B-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/11/2013

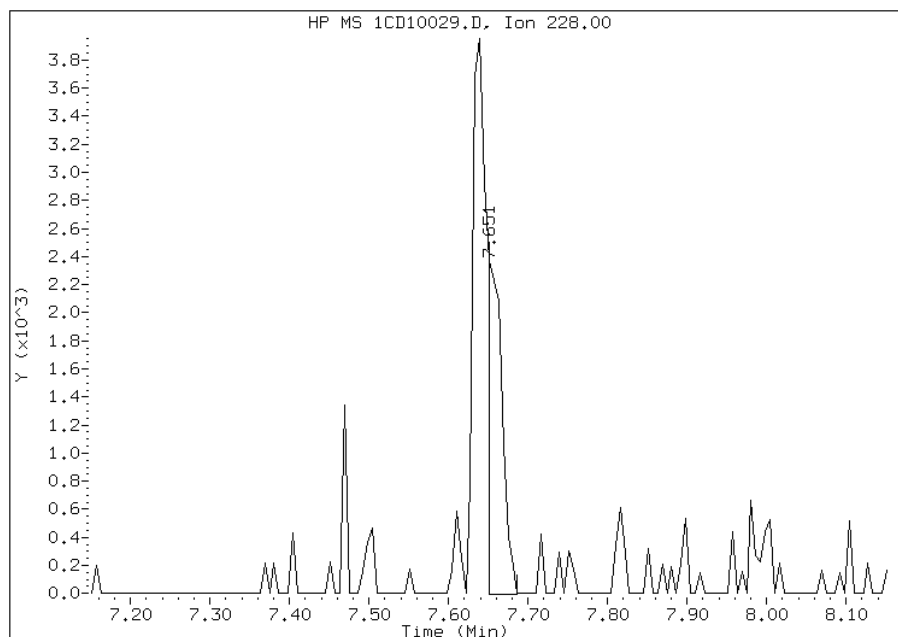
Processing Integration Results

RT: 7.64
Response: 6971
Amount: 0
Conc: 45



Manual Integration Results

RT: 7.65
Response: 2983
Amount: 0
Conc: 19



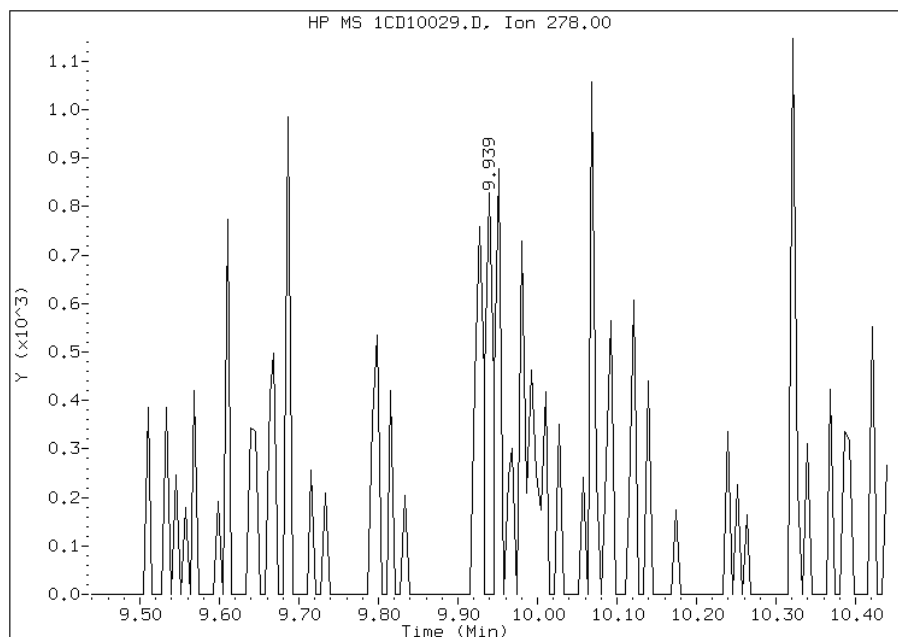
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10029.D
Inj. Date and Time: 10-APR-2013 21:15
Instrument ID: BSMC5973.i
Client ID: CV0668B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

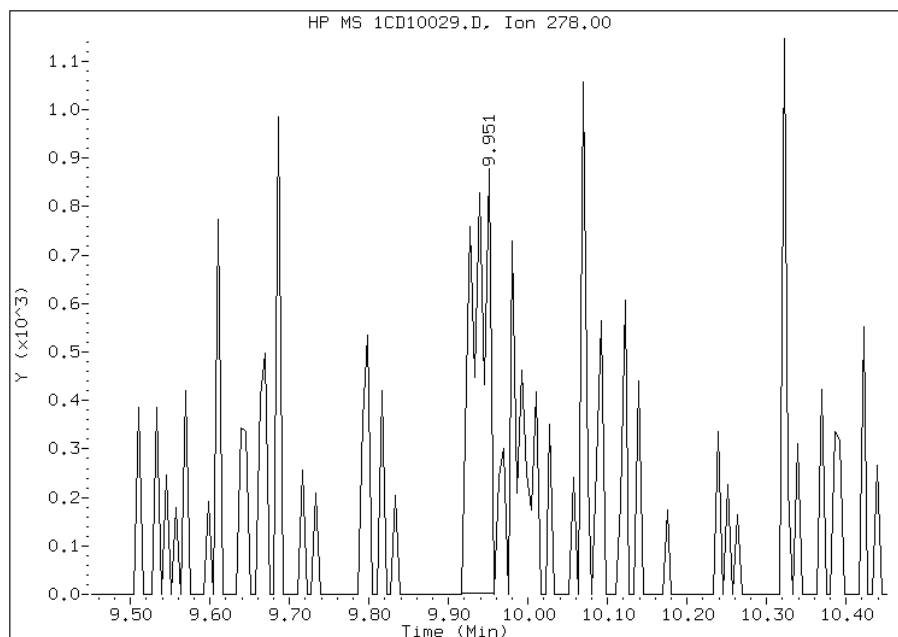
Processing Integration Results

RT: 9.94
Response: 602
Amount: 0
Conc: 5



Manual Integration Results

RT: 9.95
Response: 1330
Amount: 0
Conc: 11



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:11
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0717A-CS</u>	Lab Sample ID: <u>680-88980-12</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 10:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>14.90 (g)</u>	Date Analyzed: <u>04/10/2013 21:33</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>38.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	65	U	65	8.2
120-12-7	Anthracene	14	U	14	6.9
56-55-3	Benzo[a]anthracene	13	U	13	6.4
50-32-8	Benzo[a]pyrene	24		17	8.5
205-99-2	Benzo[b]fluoranthene	40		20	10
191-24-2	Benzo[g,h,i]perylene	21	J	33	7.2
207-08-9	Benzo[k]fluoranthene	18		13	5.9
218-01-9	Chrysene	28		15	7.4
53-70-3	Dibenz(a,h)anthracene	33	U	33	6.7
206-44-0	Fluoranthene	46		33	6.5
86-73-7	Fluorene	33	U	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	33	12
90-12-0	1-Methylnaphthalene	11	J	65	7.2
91-57-6	2-Methylnaphthalene	16	J	65	12
91-20-3	Naphthalene	34	J	65	7.2
85-01-8	Phenanthrene	31		13	6.4
129-00-0	Pyrene	37		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	72		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10030.D
Lab Smp Id: 680-88980-A-12-A Client Smp ID: CV0717A-CS
Inj Date : 10-APR-2013 21:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-12-a
Misc Info : 680-88980-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	38.496	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		412666	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		293237	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		529990	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		56133	7.21421	787.2202
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		598802	40.0000	(H)
* 23 Perylene-d12	264		8.804	8.809	(1.000)		568355	40.0000	
2 Naphthalene	128		3.698	3.692	(1.005)		3297	0.31106	33.9431
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		1050	0.14553	15.8802
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		655	0.10089	11.0092(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		4339	0.28110	30.6738
13 Carbazole	167		5.868	5.868	(1.028)		1176	0.08772	9.5724
15 Fluoranthene	202		6.557	6.557	(1.148)		7181	0.42125	45.9671
16 Pyrene	202		6.721	6.727	(0.879)		5553	0.33477	36.5308
19 Chrysene	228		7.662	7.668	(1.002)		4343	0.25452	27.7738

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL			ON-COLUMN	FINAL
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.962)	5825	0.36252	39.5589(M)
21 Benzo(k)fluoranthene	252	8.480	8.498	(0.963)	2536	0.16319	17.8070(QMH)
22 Benzo(a)pyrene	252	8.756	8.756	(0.995)	3271	0.21623	23.5949
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.128)	2837	0.19745	21.5457
26 Benzo(g,h,i)perylene	276	10.262	10.280	(1.166)	2878	0.19626	21.4155(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: 1CD10030.D

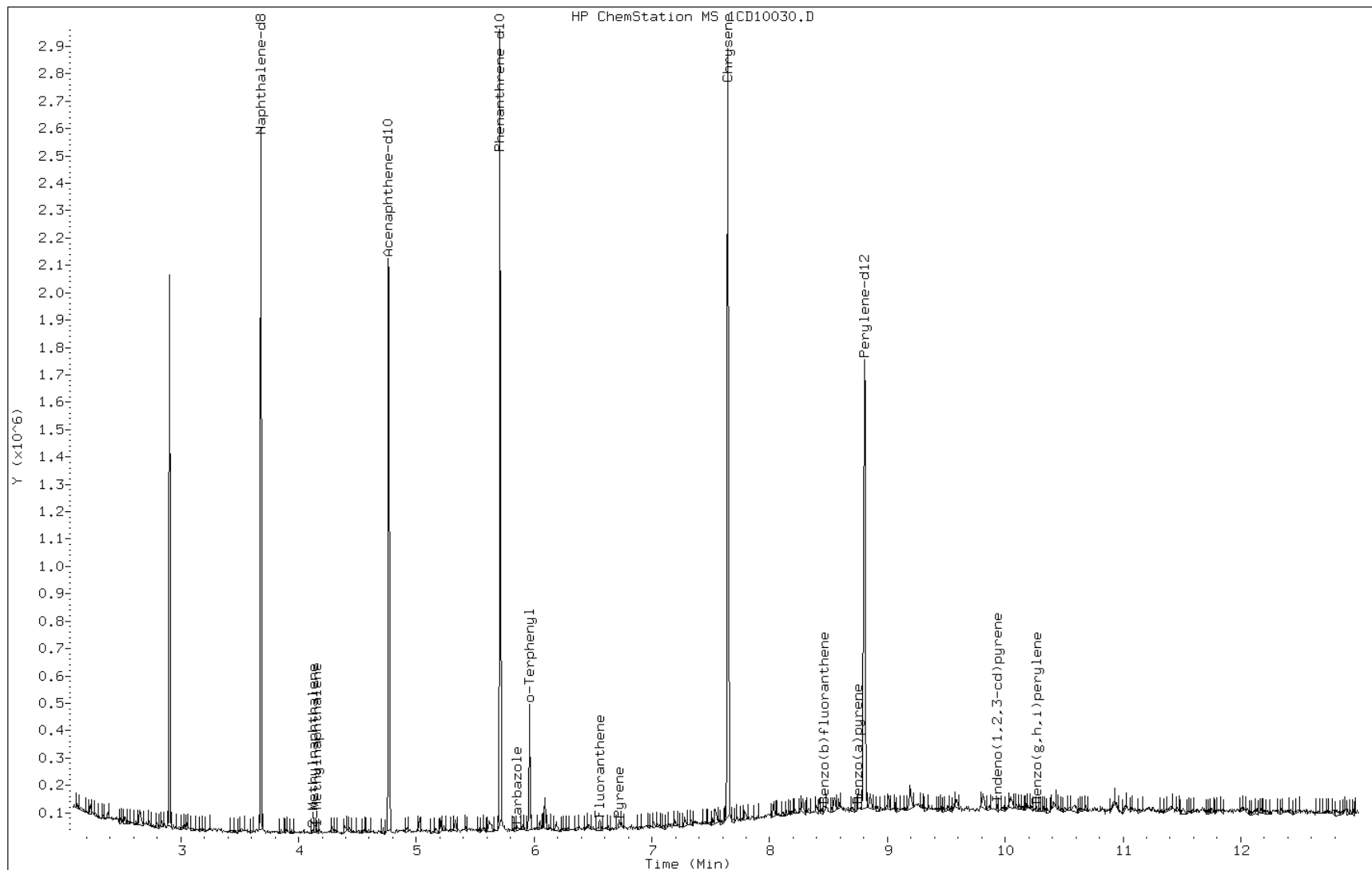
Date: 10-APR-2013 21:33

Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

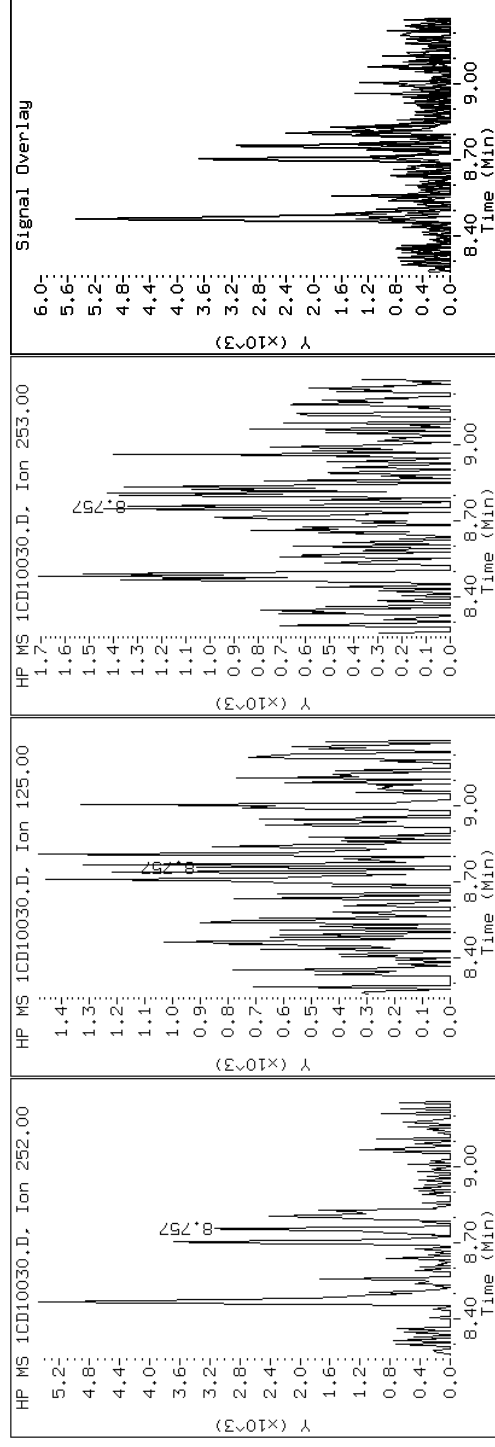
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

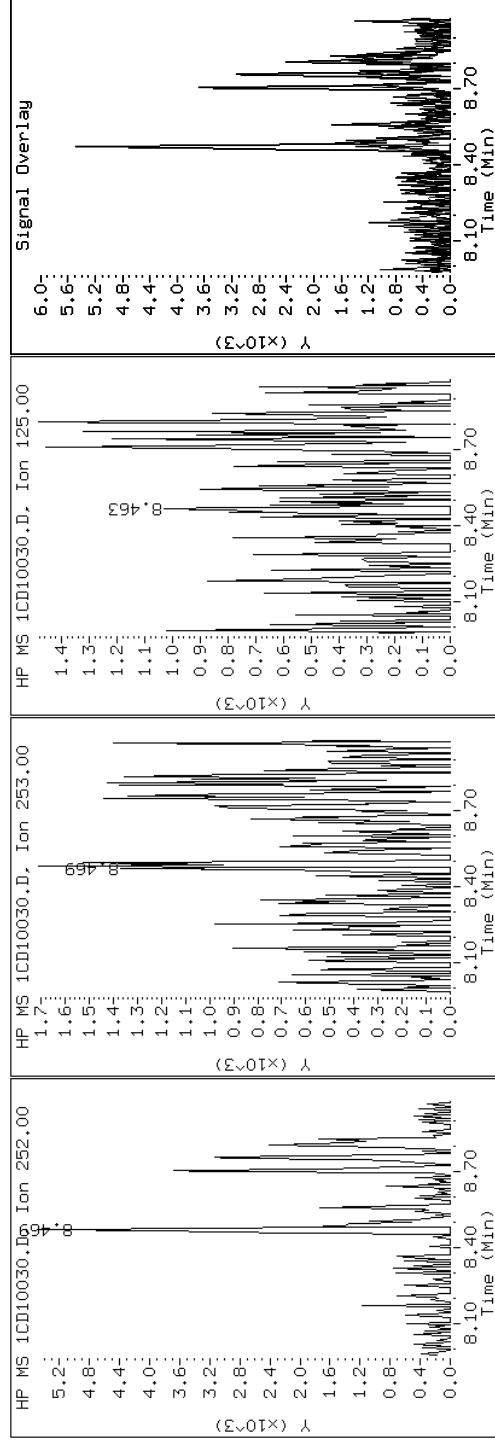
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

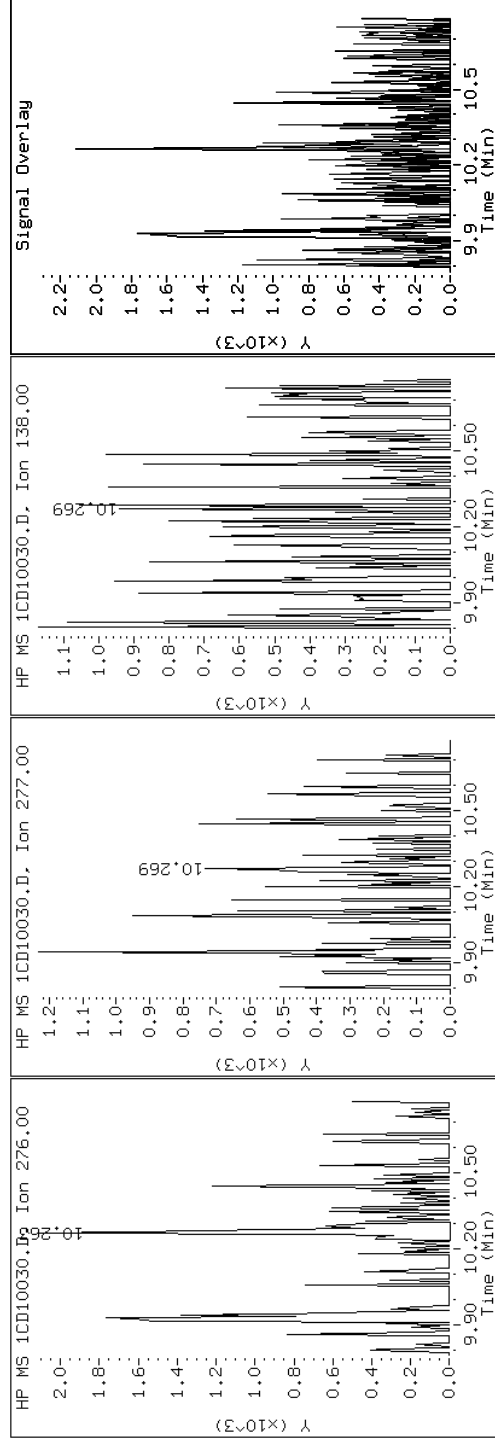
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

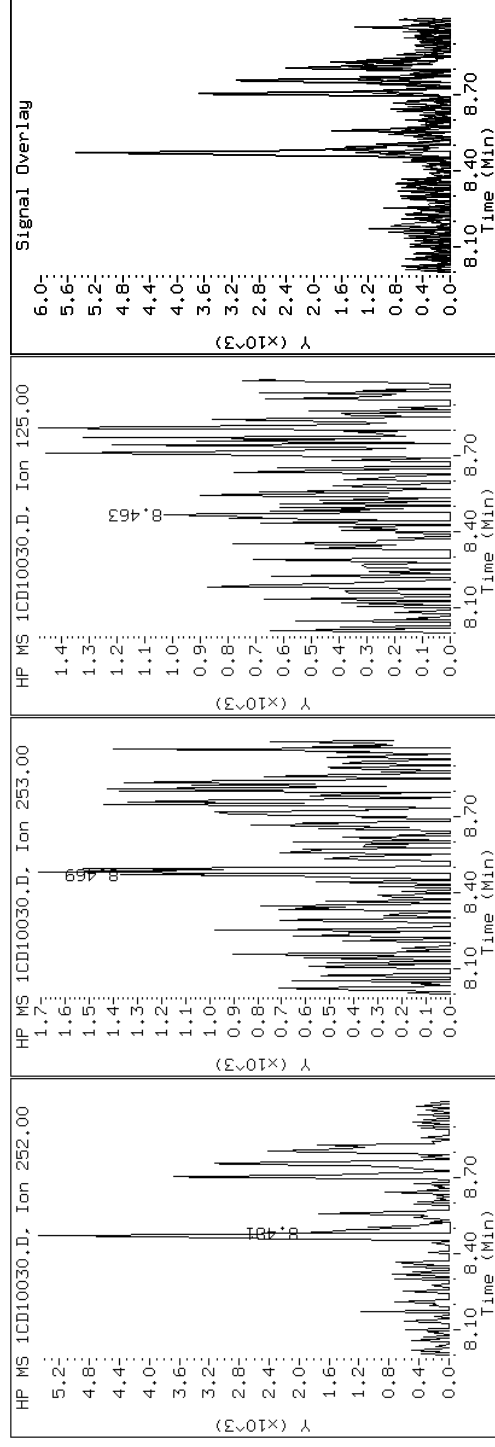
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

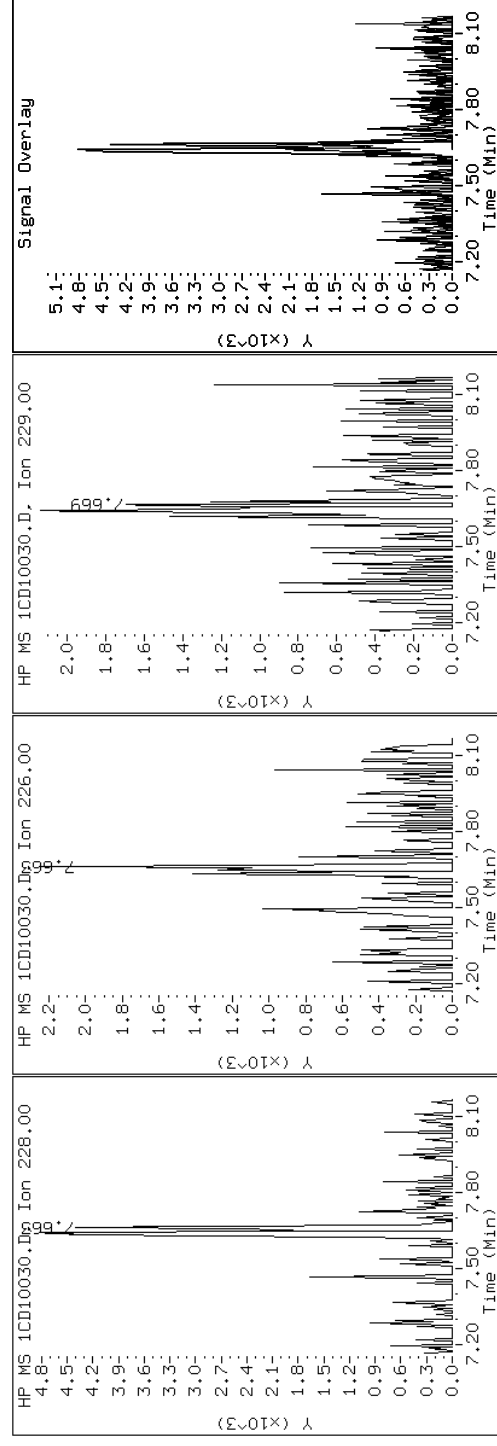
Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

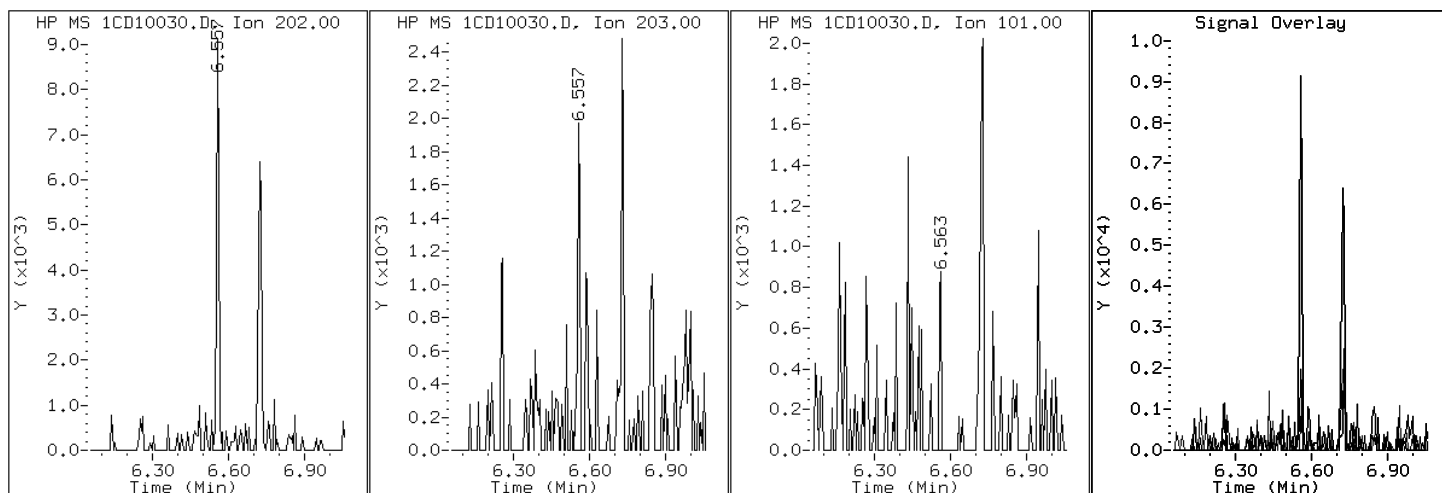
Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

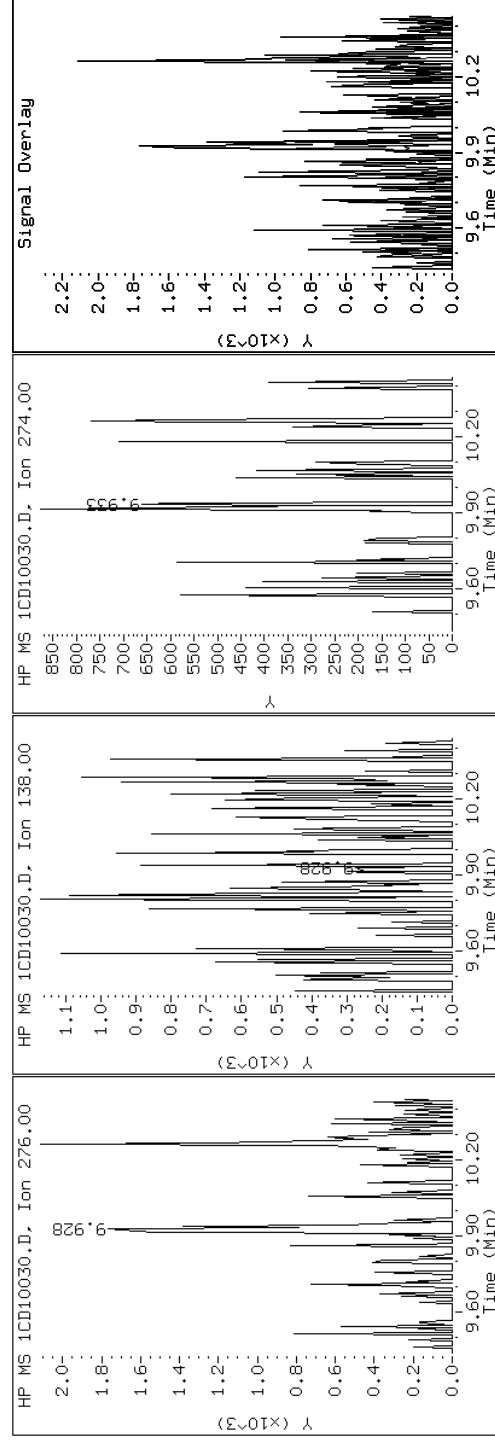
Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC

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



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

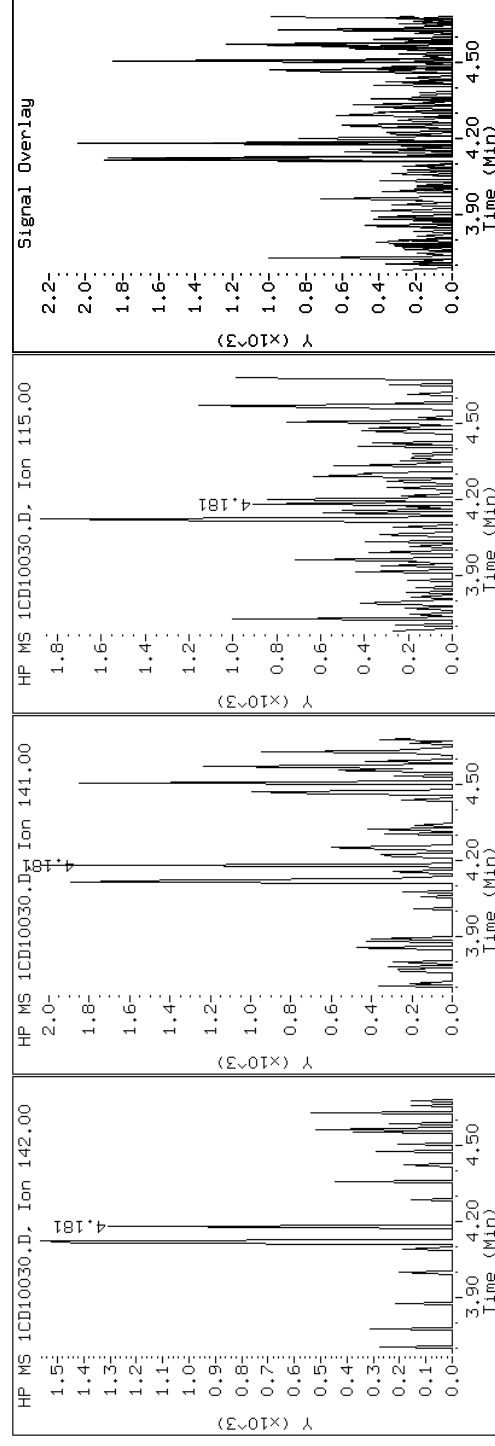
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

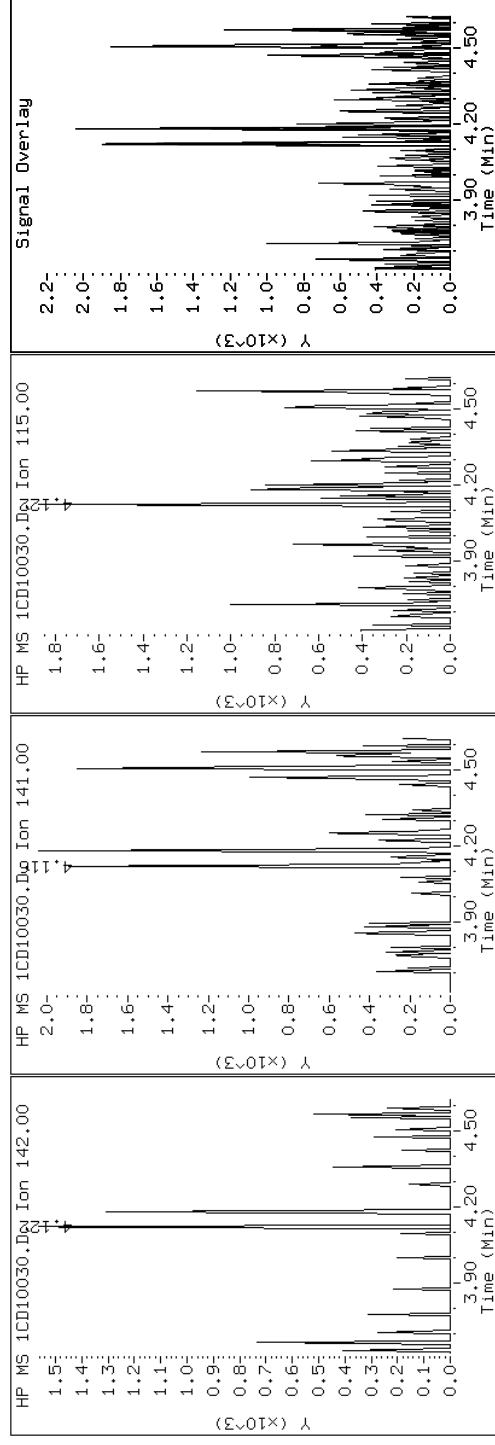
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

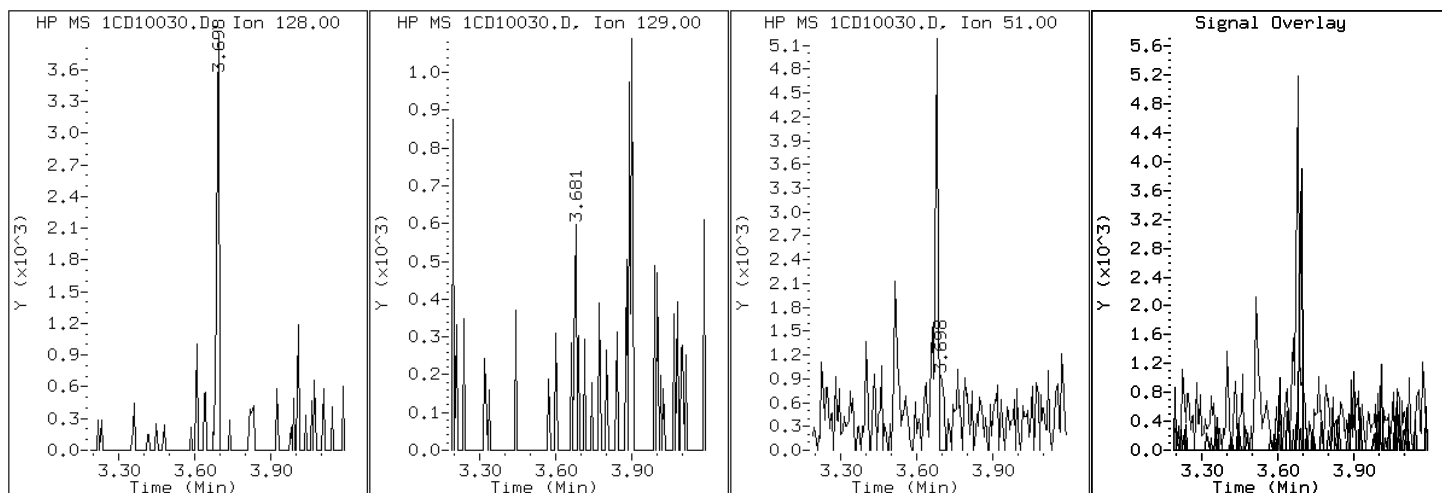
Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

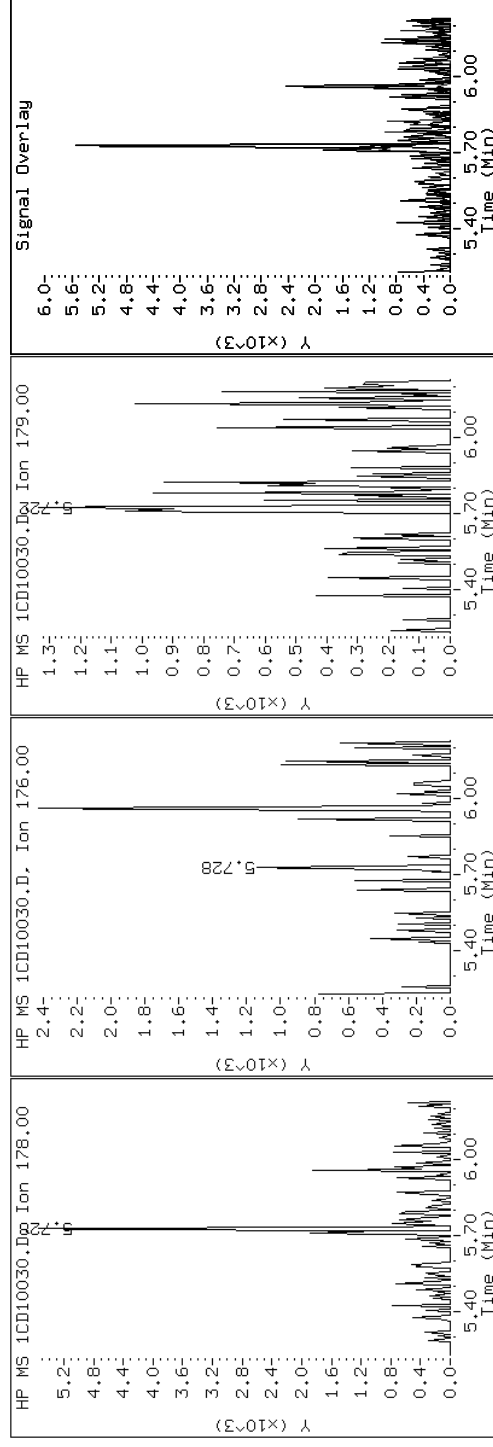
Client ID: CV0717A-CS

Sample Info: 680-88980-a-12-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10030.D

Date: 10-APR-2013 21:33

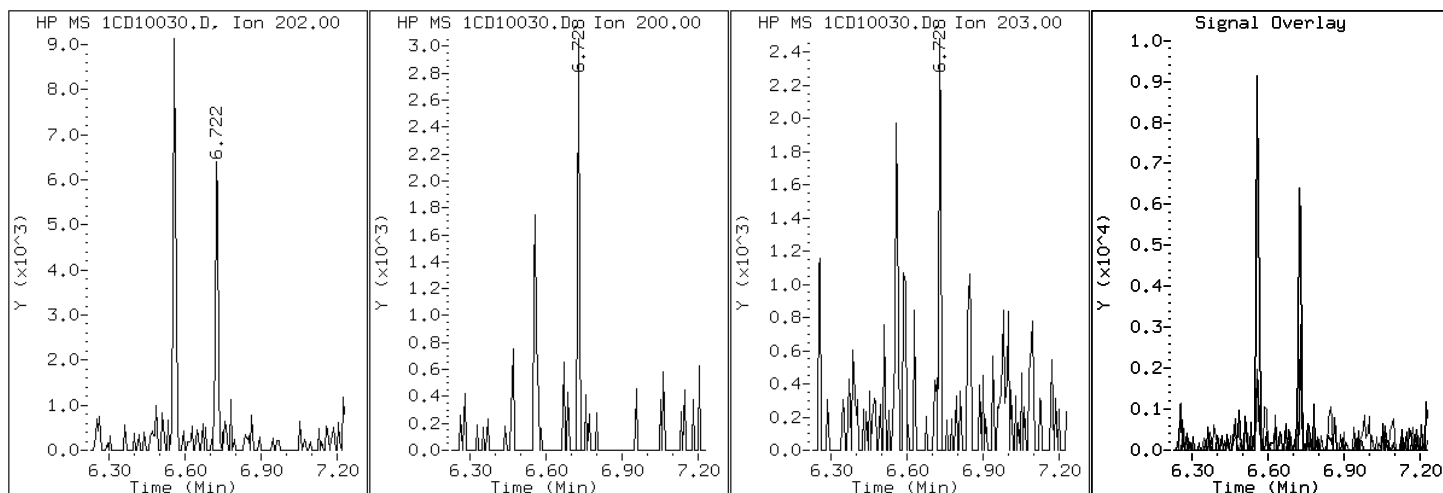
Client ID: CV0717A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-12-a

Operator: SCC

16 Pyrene

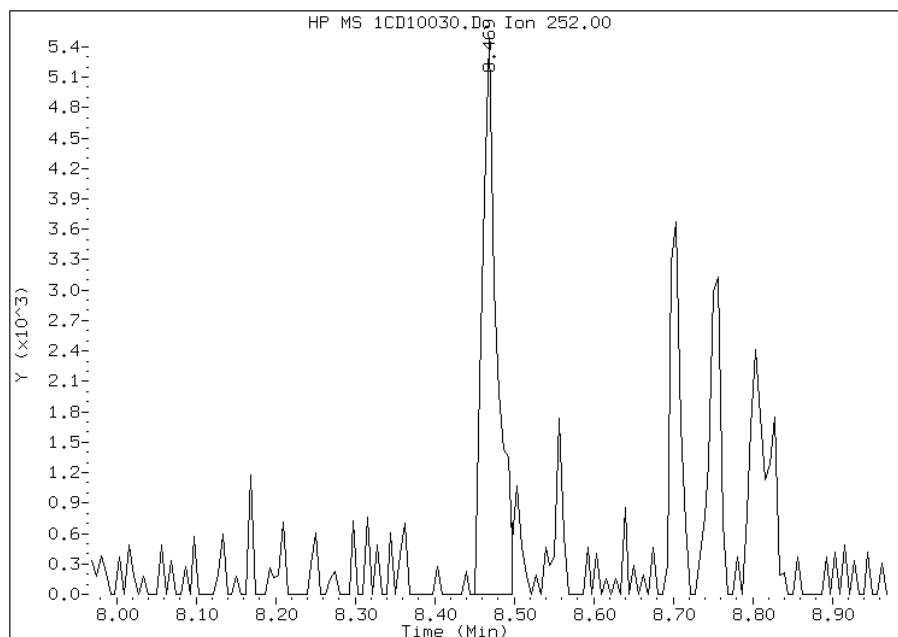


Manual Integration Report

Data File: 1CD10030.D
Inj. Date and Time: 10-APR-2013 21:33
Instrument ID: BSMC5973.i
Client ID: CV0717A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

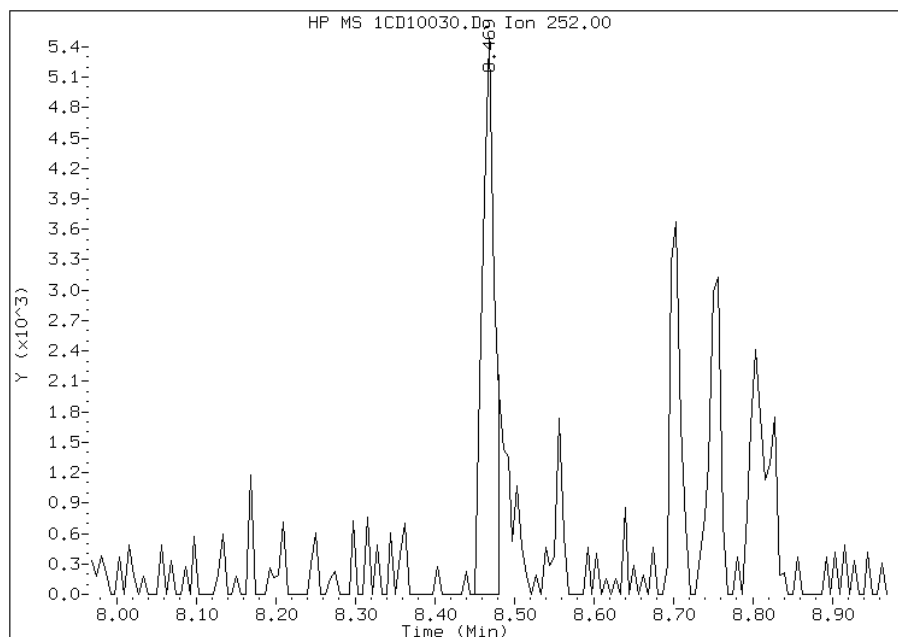
Processing Integration Results

RT: 8.47
Response: 6987
Amount: 0
Conc: 47



Manual Integration Results

RT: 8.47
Response: 5825
Amount: 0
Conc: 40



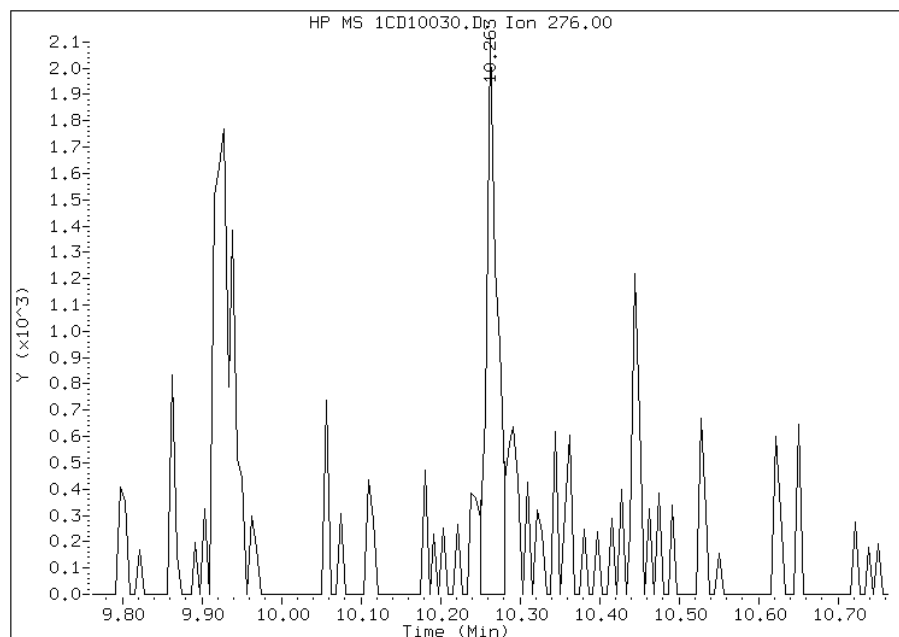
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10030.D
Inj. Date and Time: 10-APR-2013 21:33
Instrument ID: BSMC5973.i
Client ID: CV0717A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

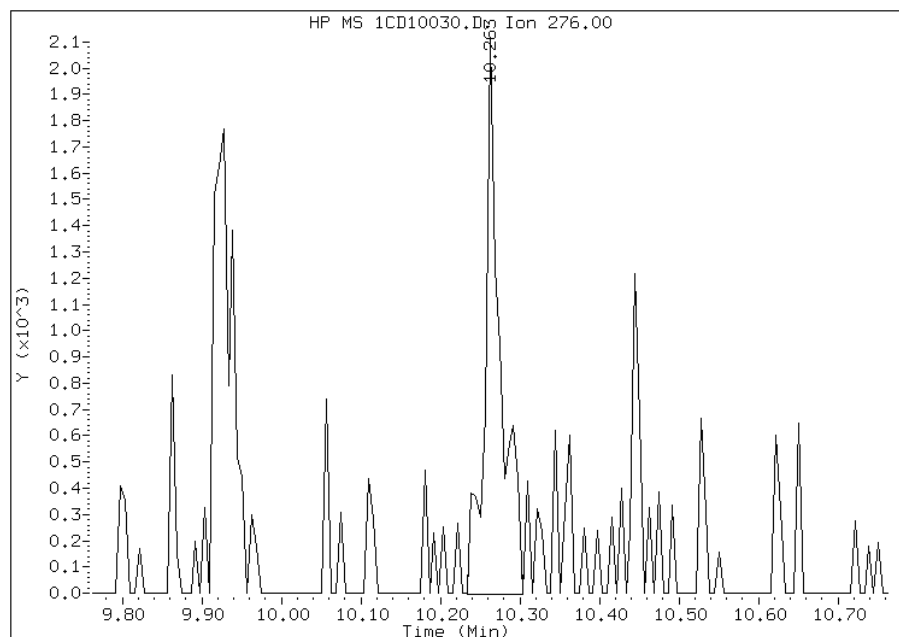
Processing Integration Results

RT: 10.26
Response: 2013
Amount: 0
Conc: 15



Manual Integration Results

RT: 10.26
Response: 2878
Amount: 0
Conc: 21



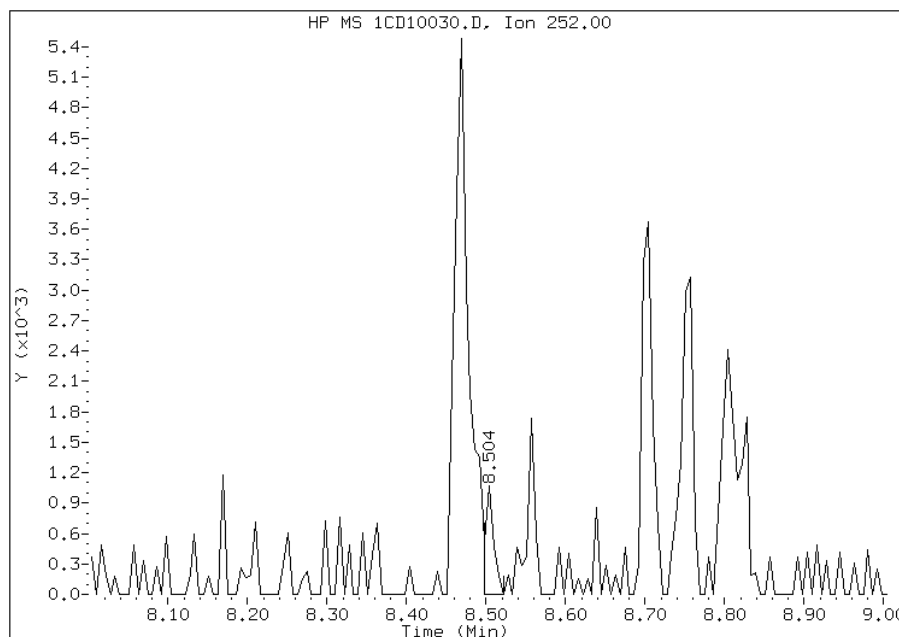
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10030.D
Inj. Date and Time: 10-APR-2013 21:33
Instrument ID: BSMC5973.i
Client ID: CV0717A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

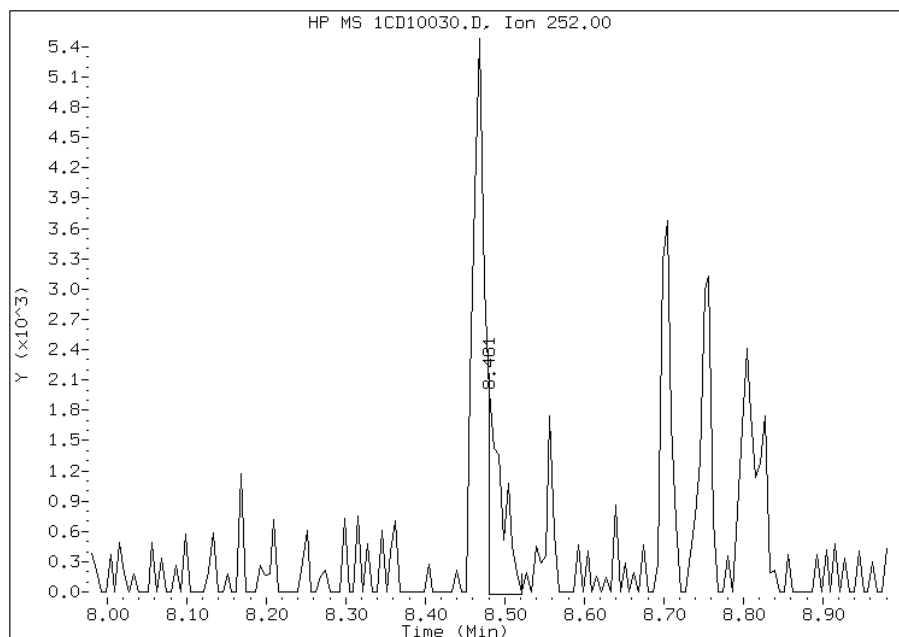
Processing Integration Results

RT: 8.50
Response: 791
Amount: 0
Conc: 6



Manual Integration Results

RT: 8.48
Response: 2536
Amount: 0
Conc: 18



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:14
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0717B-CS</u>	Lab Sample ID: <u>680-88980-13</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10031.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 10:26</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.11(g)</u>	Date Analyzed: <u>04/10/2013 21:52</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>34.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	14	J	60	7.5
120-12-7	Anthracene	21		13	6.3
56-55-3	Benzo[a]anthracene	86		12	5.9
50-32-8	Benzo[a]pyrene	70		16	7.8
205-99-2	Benzo[b]fluoranthene	100		18	9.2
191-24-2	Benzo[g,h,i]perylene	34		30	6.6
207-08-9	Benzo[k]fluoranthene	81		12	5.4
218-01-9	Chrysene	100		14	6.8
53-70-3	Dibenz(a,h)anthracene	25	J	30	6.2
206-44-0	Fluoranthene	63		30	6.0
86-73-7	Fluorene	30	U	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	29	J	30	11
90-12-0	1-Methylnaphthalene	14	J	60	6.6
91-57-6	2-Methylnaphthalene	14	J	60	11
91-20-3	Naphthalene	35	J	60	6.6
85-01-8	Phenanthrene	19		12	5.9
129-00-0	Pyrene	83		30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10031.D
Lab Smp Id: 680-88980-A-13-A Client Smp ID: CV0717B-CS
Inj Date : 10-APR-2013 21:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-13-a
Misc Info : 680-88980-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	34.014	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		395100	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		276149	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		536523	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		51993	6.66245	668.2136
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		614479	40.0000	
* 23 Perylene-d12	264		8.804	8.809	(1.000)		578219	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		3587	0.35347	35.4510(Q)
3 2-Methylnaphthalene	142		4.122	4.121	(1.120)		962	0.13926	13.9671(Q)
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		855	0.13755	13.7958(Q)
5 Acenaphthylene	152		4.674	4.680	(0.980)		1647	0.14411	14.4531
11 Phenanthrene	178		5.721	5.727	(1.002)		2903	0.18578	18.6328
12 Anthracene	178		5.757	5.763	(1.008)		3280	0.20707	20.7679
15 Fluoranthene	202		6.557	6.557	(1.148)		10922	0.63290	63.4772
16 Pyrene	202		6.727	6.727	(0.880)		14098	0.82824	83.0691

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	12848	0.85724	85.9776
19 Chrysene	228	7.663	7.668	(1.002)	17418	0.99475	99.7686
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.962)	16349	1.00014	100.3092(M)
21 Benzo(k)fluoranthene	252	8.474	8.498	(0.963)	12747	0.80625	80.8631(MH)
22 Benzo(a)pyrene	252	8.751	8.756	(0.994)	10757	0.69896	70.1021
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.939	(1.127)	4257	0.29122	29.2083
25 Dibenzo(a,h)anthracene	278	9.957	9.950	(1.131)	3342	0.24750	24.8226(M)
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	5075	0.34017	34.1173

QC Flag Legend

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

Data File: 1CD10031.D

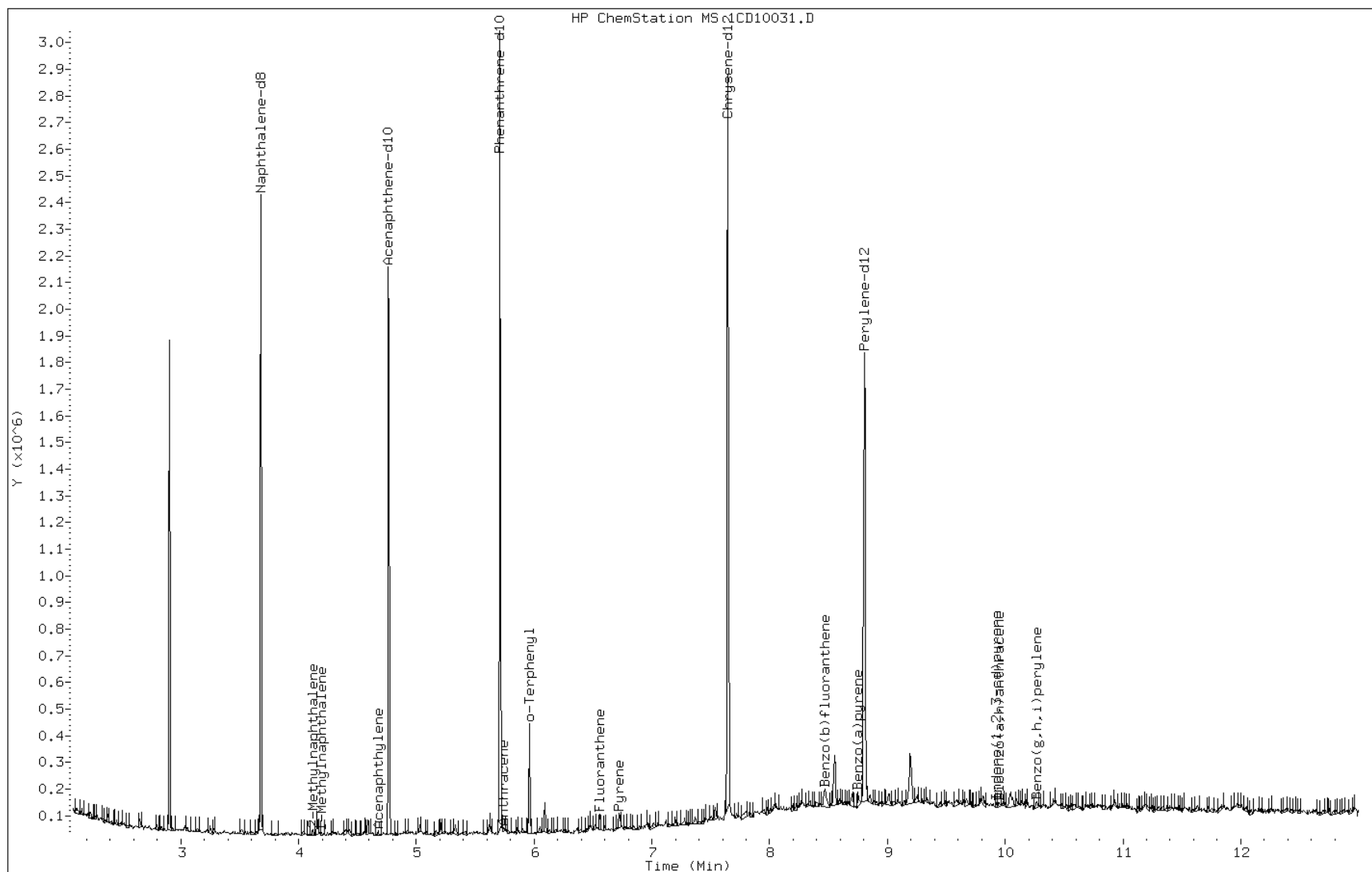
Date: 10-APR-2013 21:52

Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

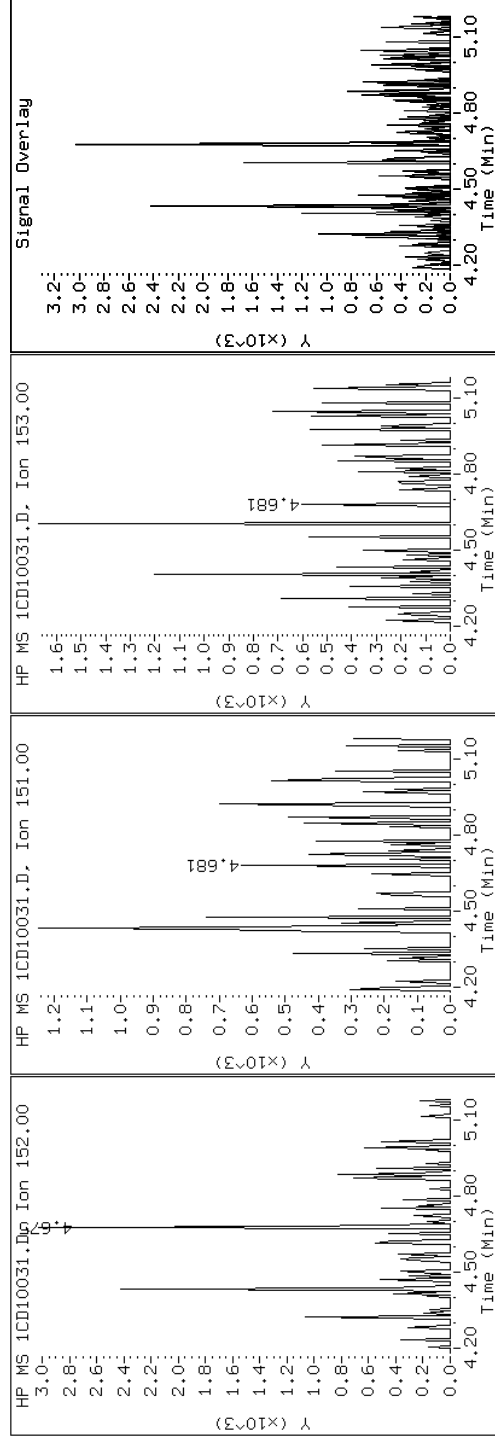
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

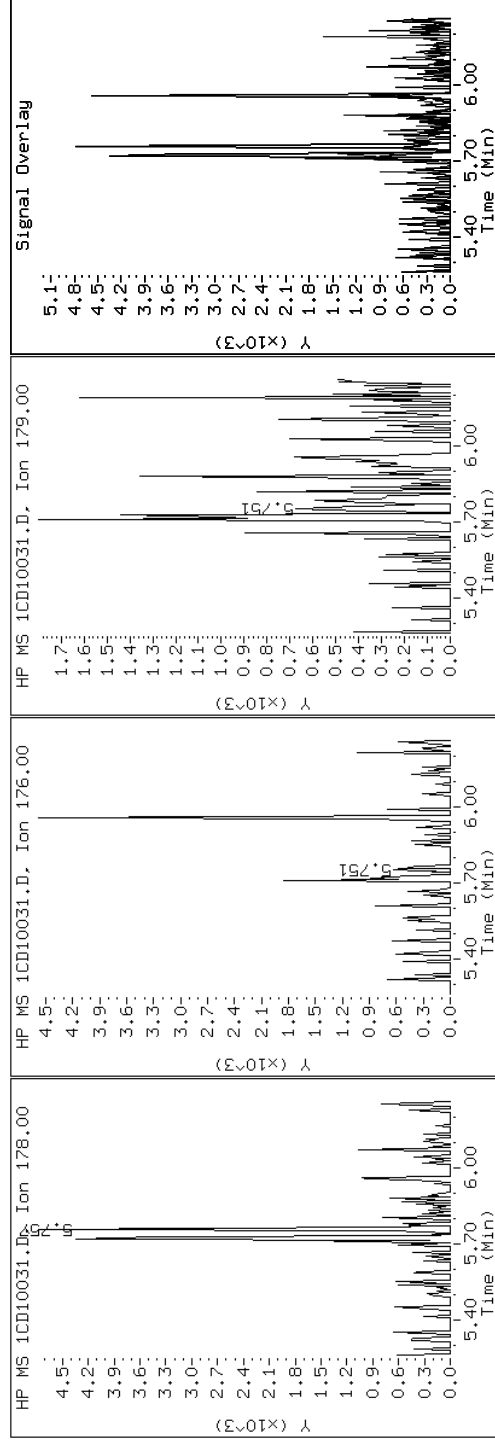
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

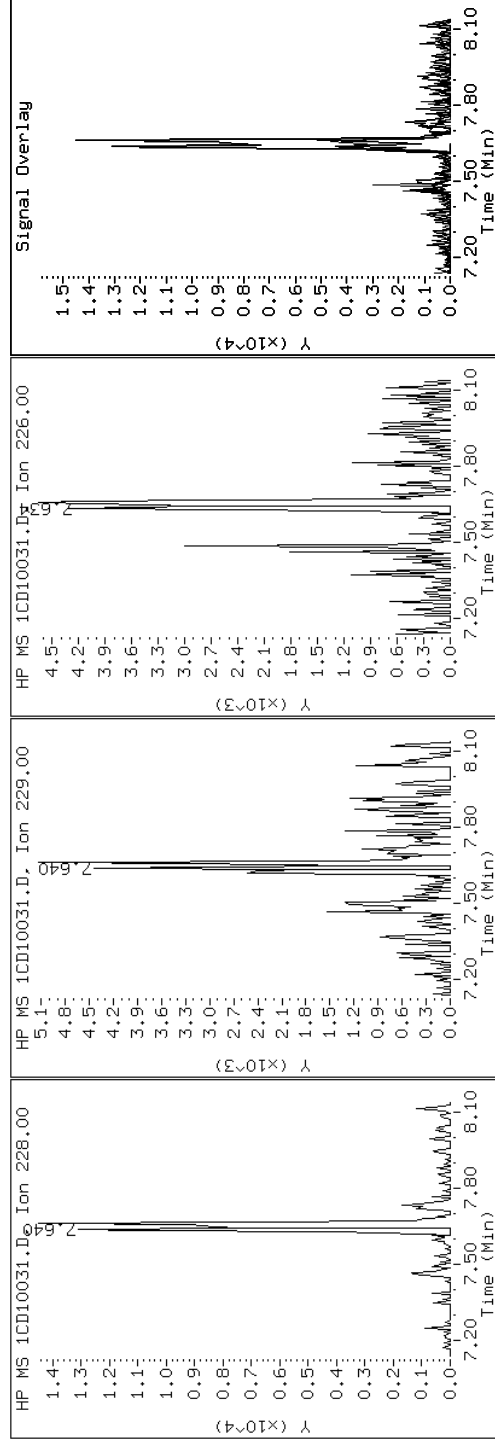
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

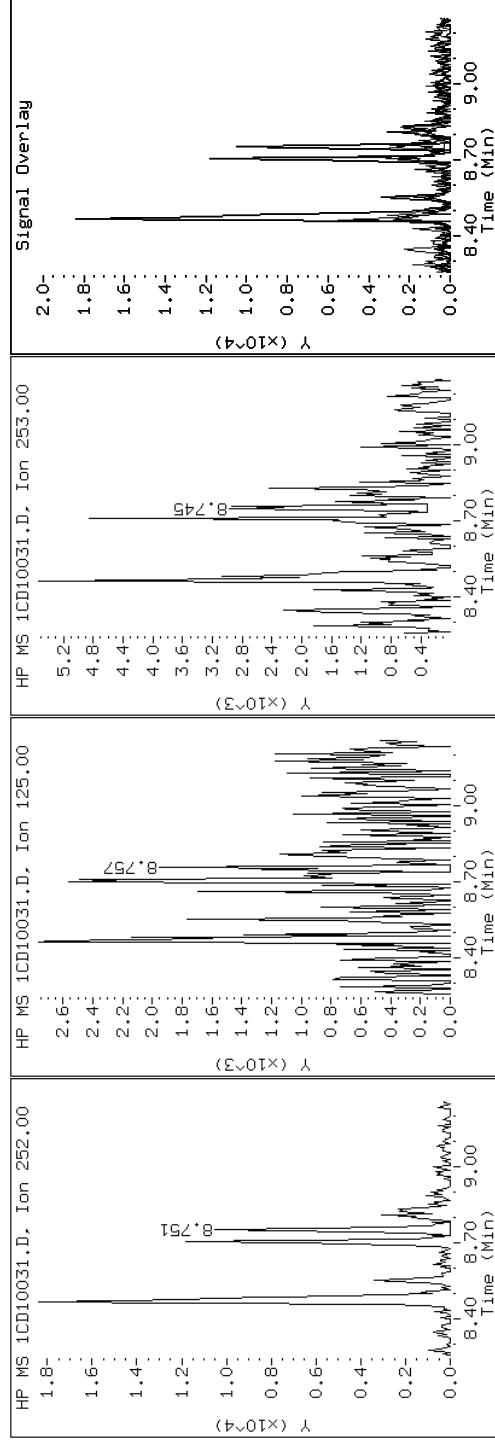
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

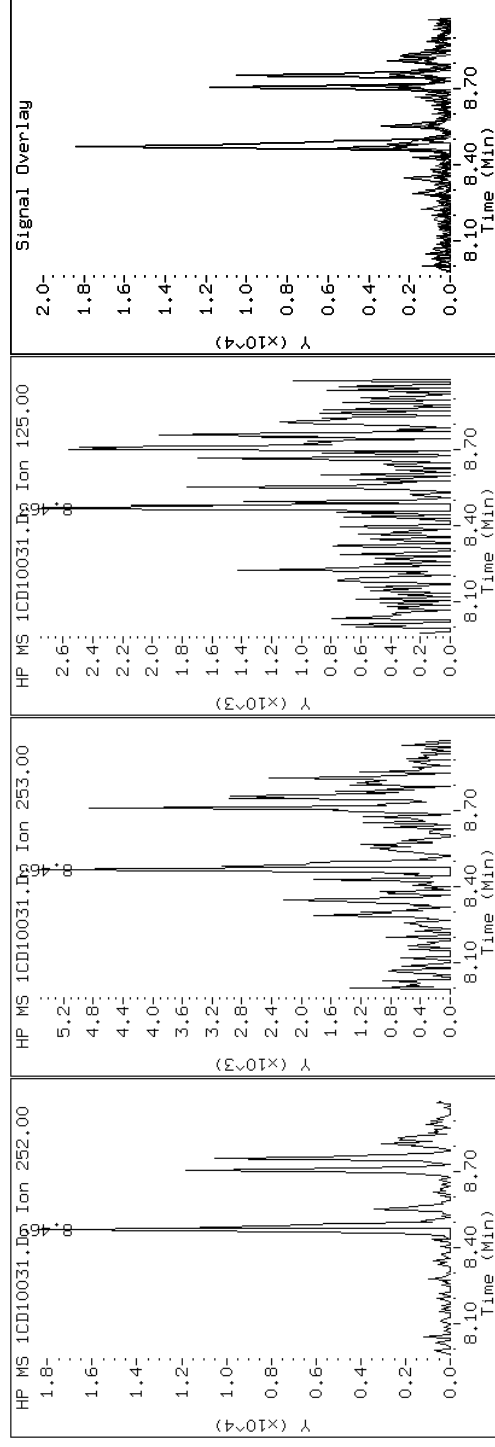
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

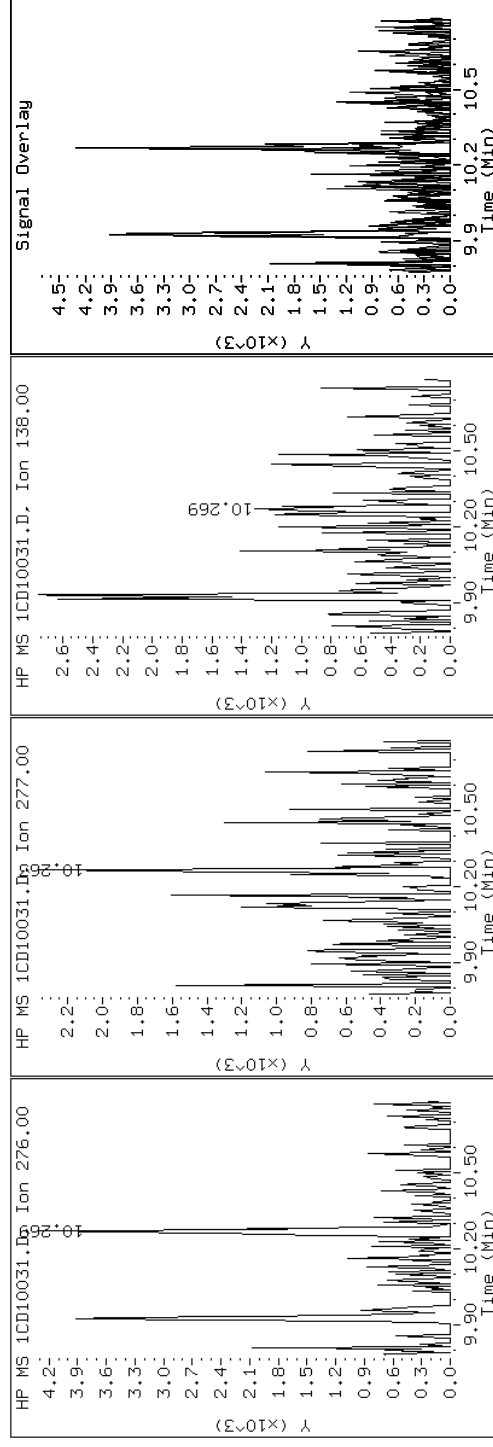
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

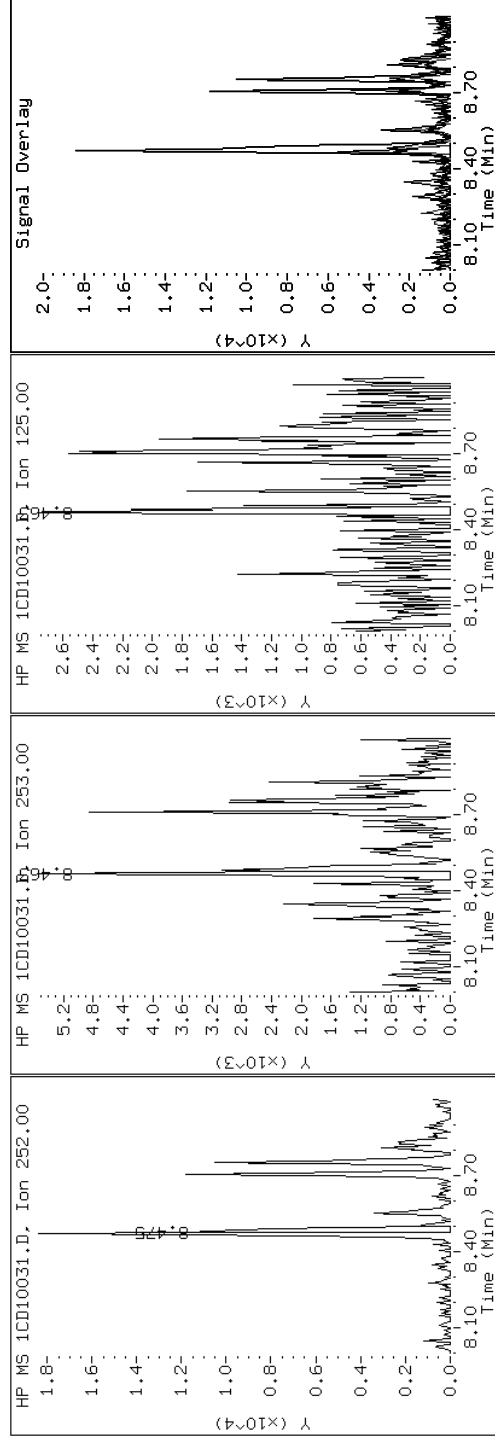
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

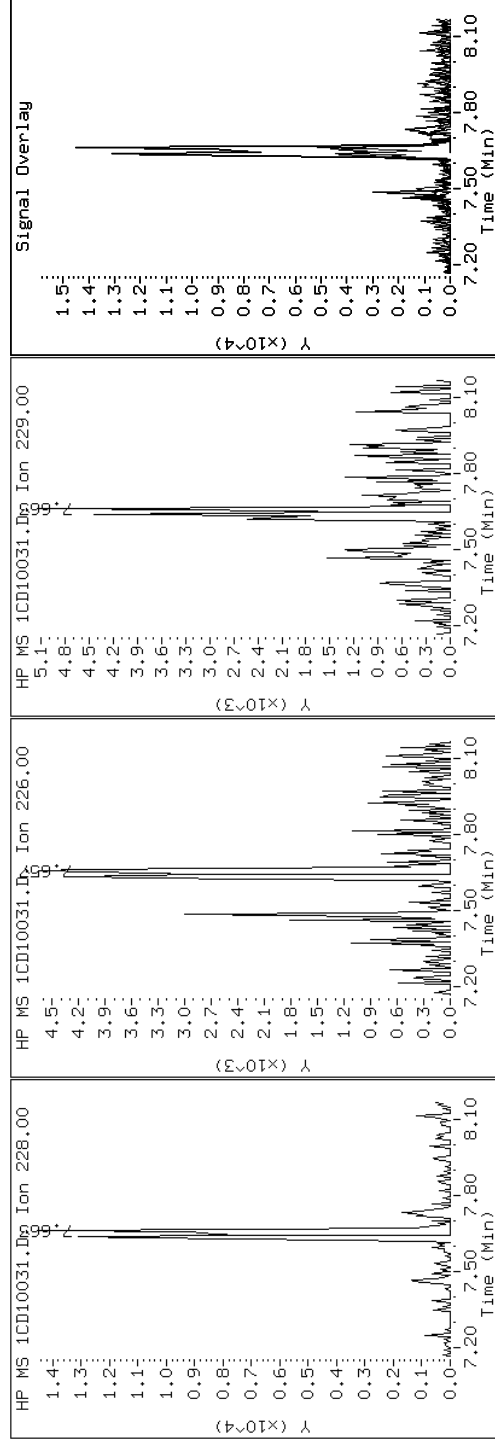
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

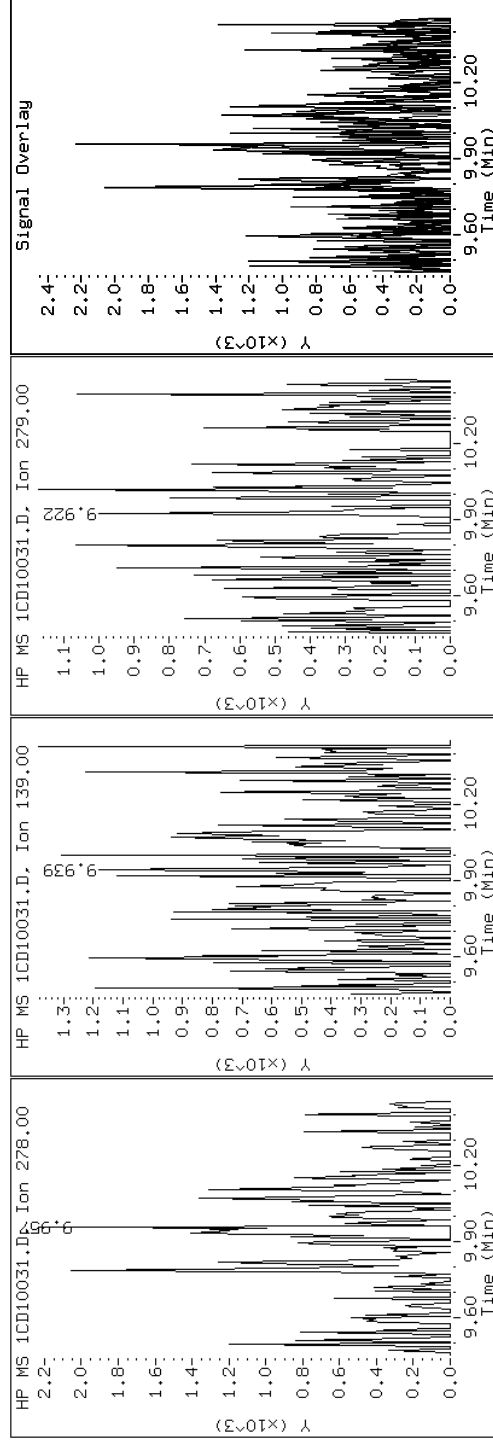
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

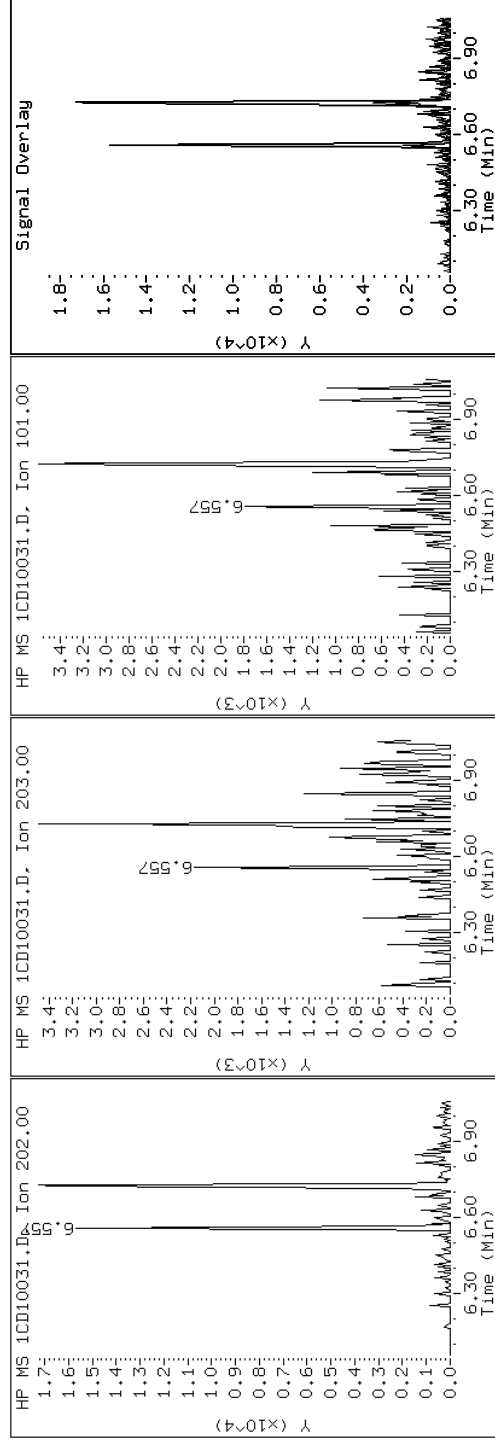
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

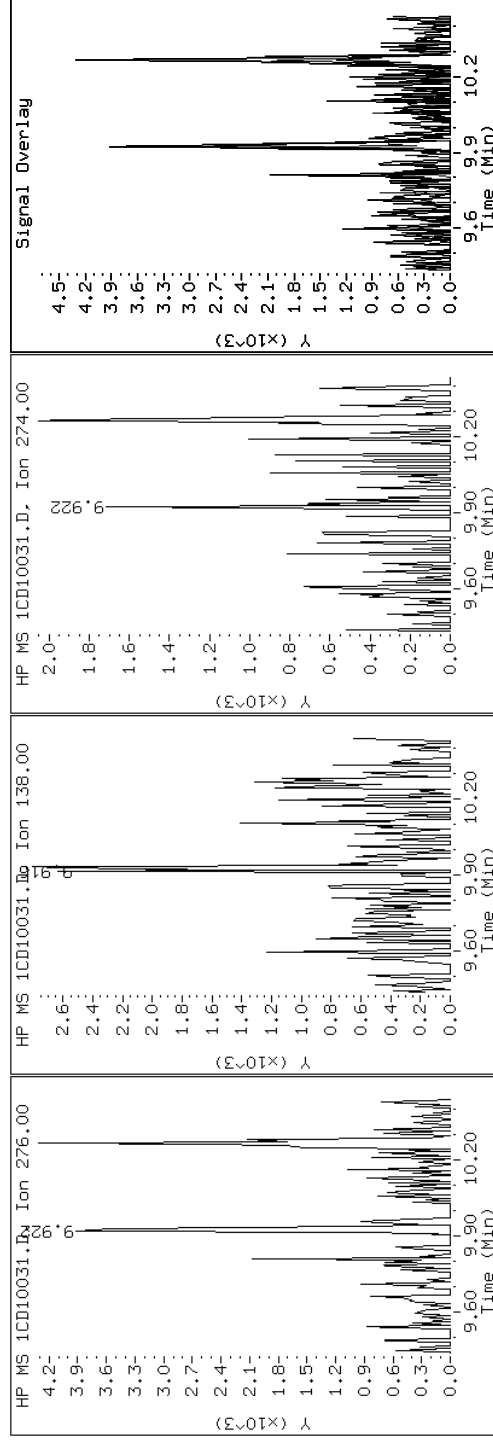
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

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



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

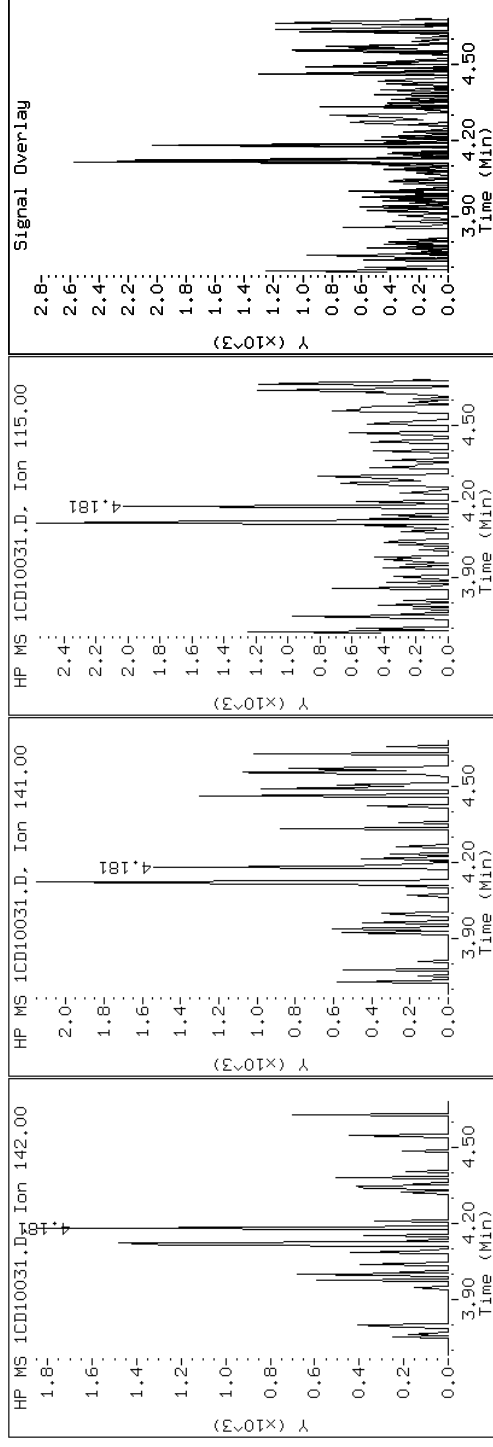
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

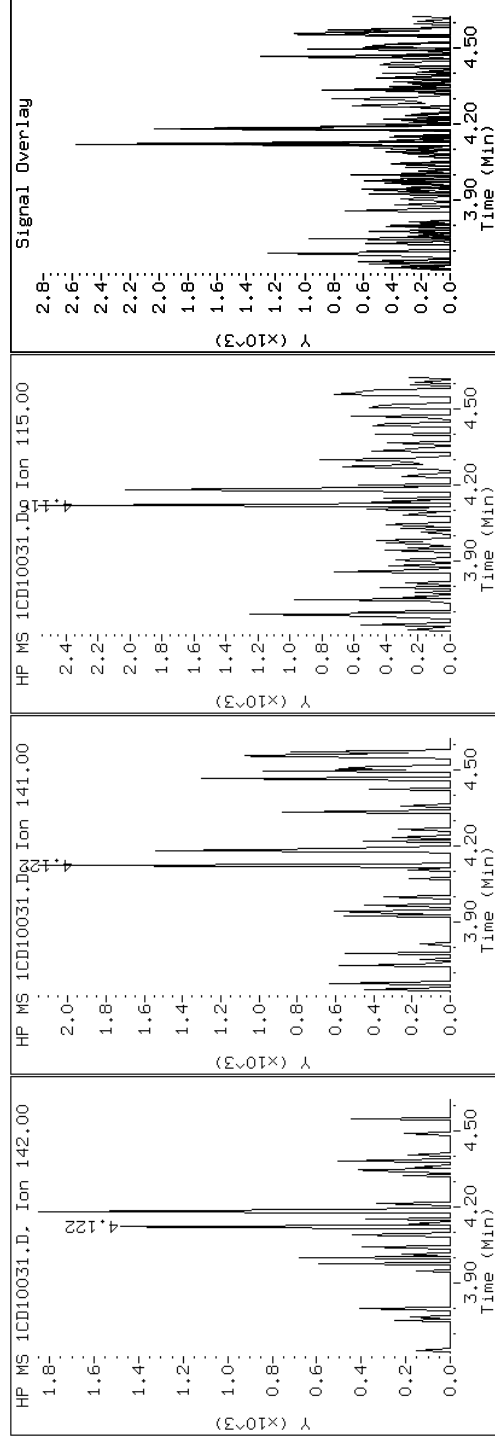
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

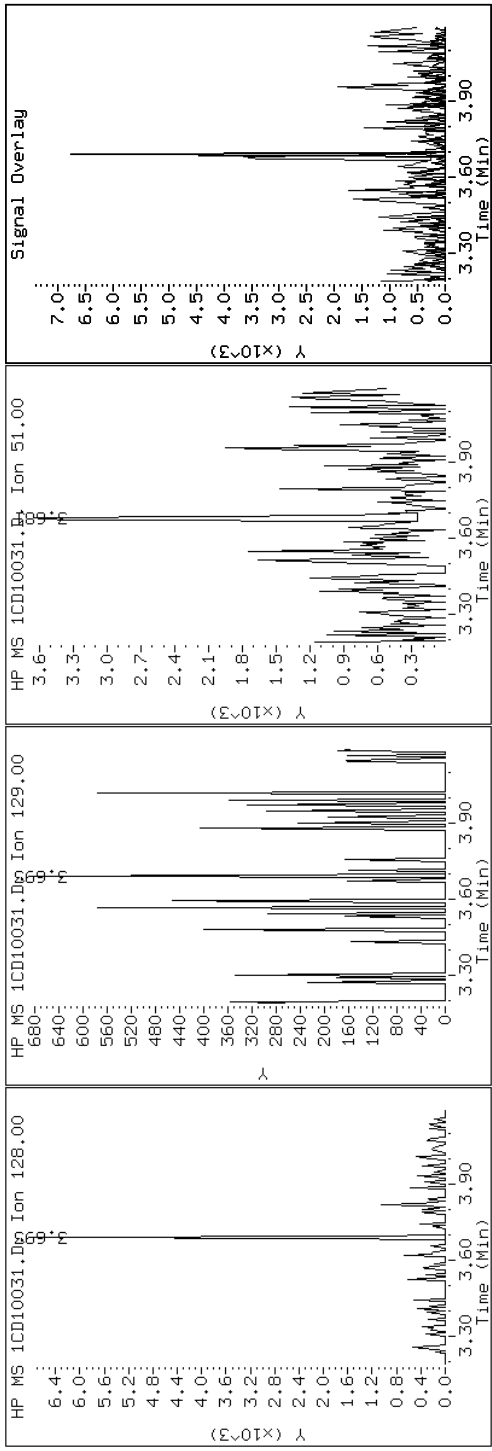
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

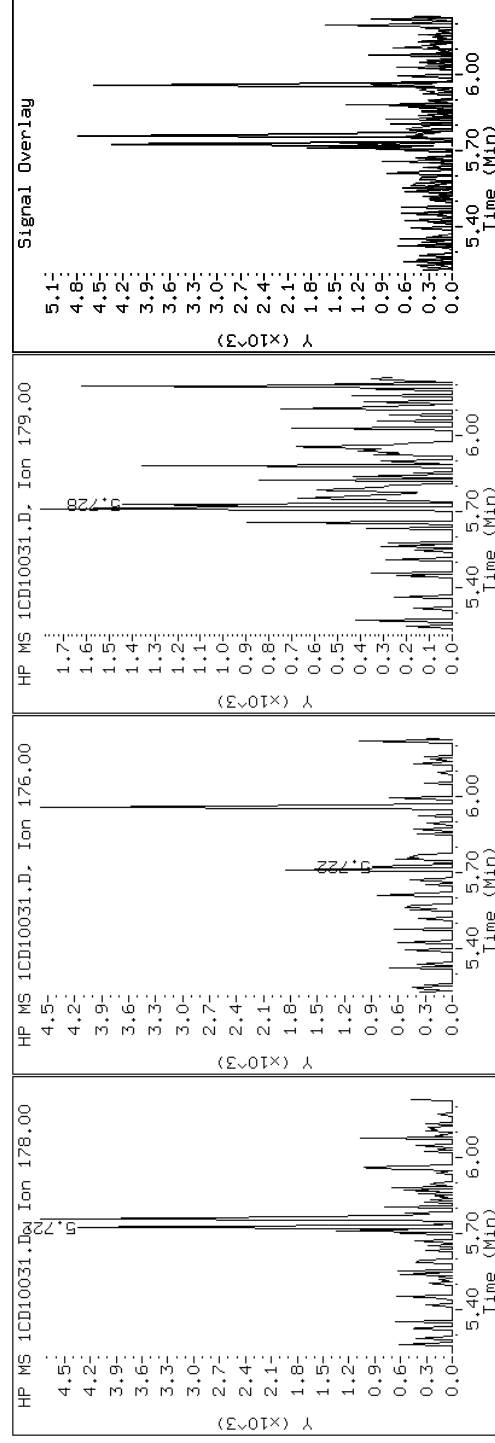
Client ID: CV0717B-CS

Sample Info: 680-88980-a-13-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10031.D

Date: 10-APR-2013 21:52

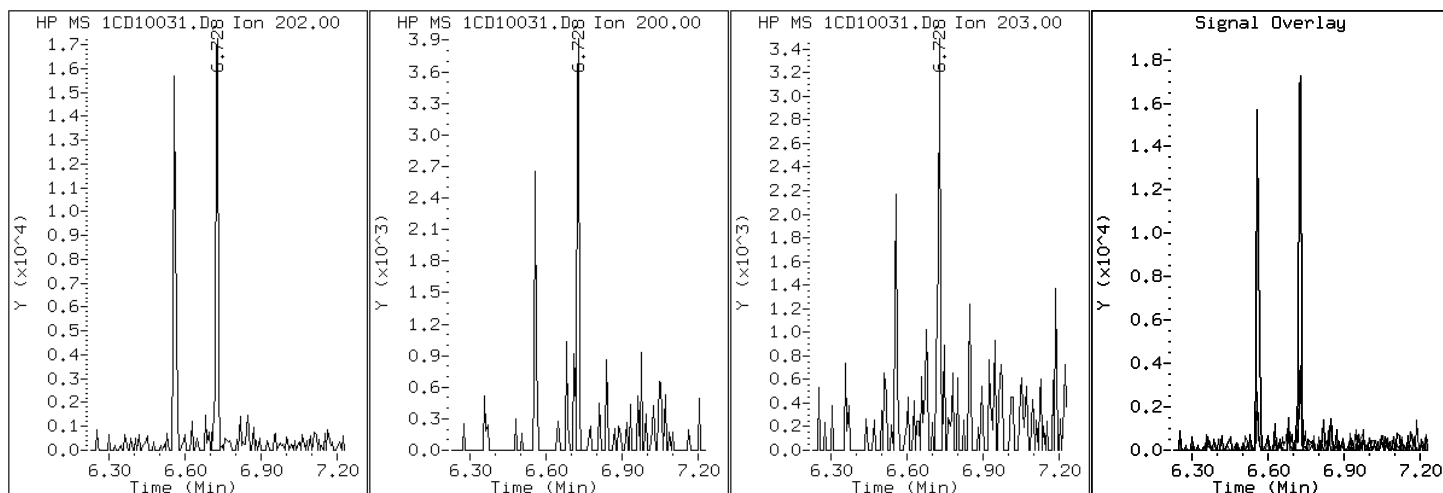
Client ID: CV0717B-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-13-a

Operator: SCC

16 Pyrene

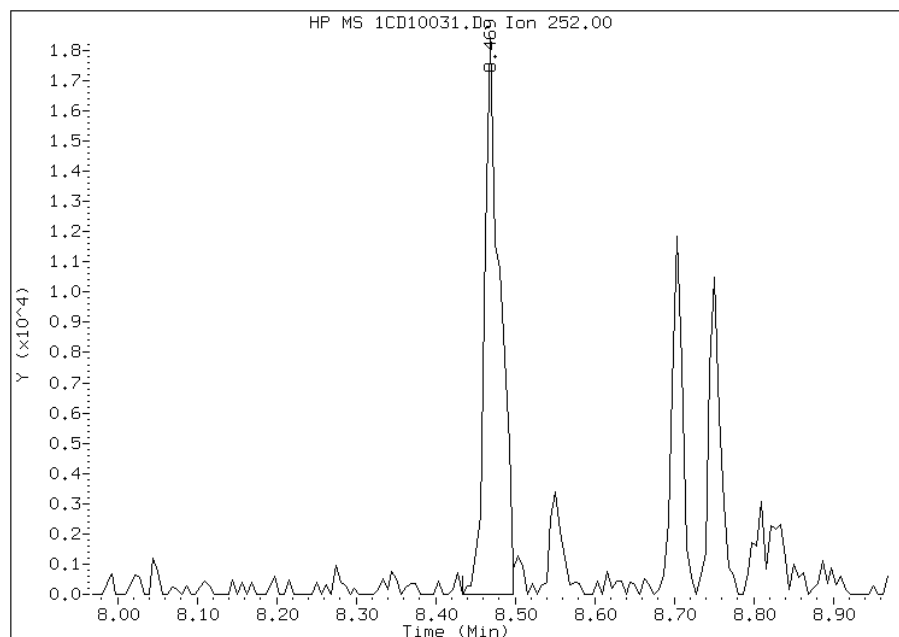


Manual Integration Report

Data File: 1CD10031.D
Inj. Date and Time: 10-APR-2013 21:52
Instrument ID: BSMC5973.i
Client ID: CV0717B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

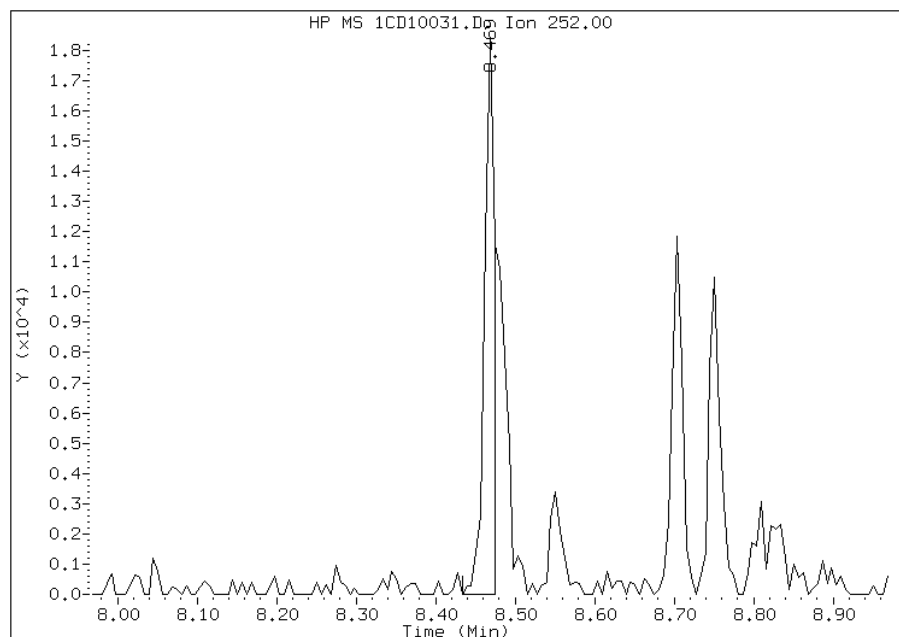
Processing Integration Results

RT: 8.47
Response: 24972
Amount: 2
Conc: 153



Manual Integration Results

RT: 8.47
Response: 16349
Amount: 1
Conc: 100



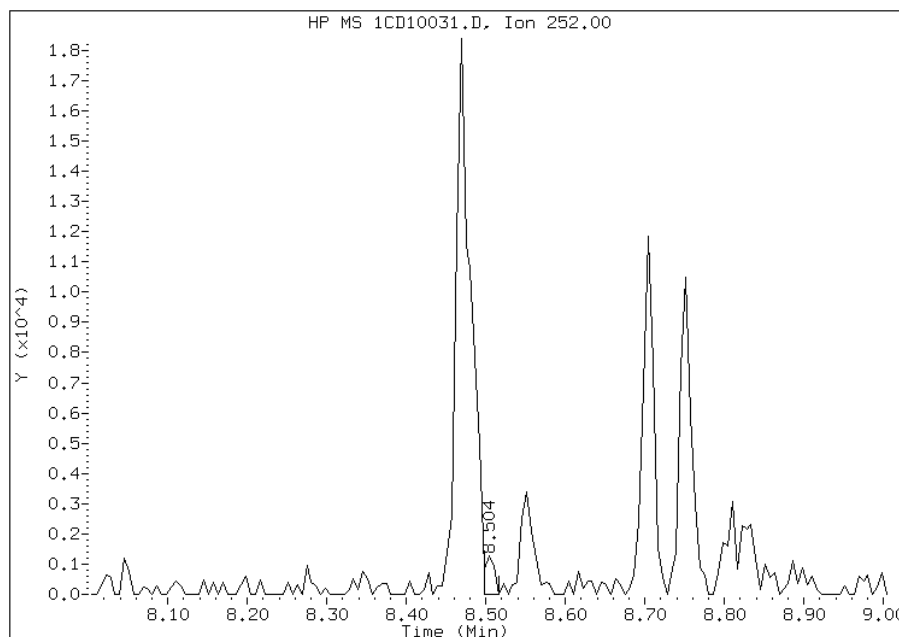
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10031.D
Inj. Date and Time: 10-APR-2013 21:52
Instrument ID: BSMC5973.i
Client ID: CV0717B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

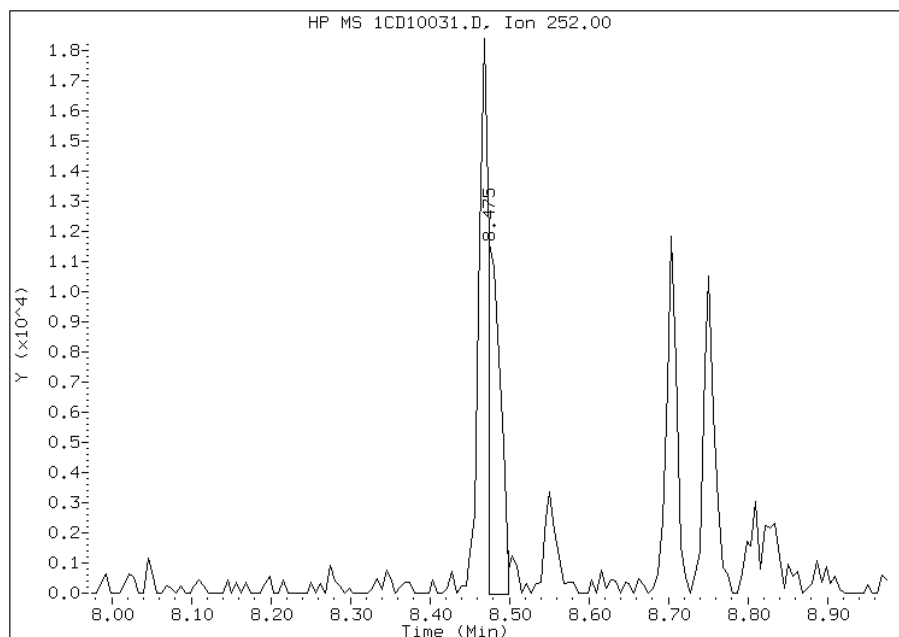
Processing Integration Results

RT: 8.50
Response: 1064
Amount: 0
Conc: 7



Manual Integration Results

RT: 8.47
Response: 12747
Amount: 1
Conc: 81



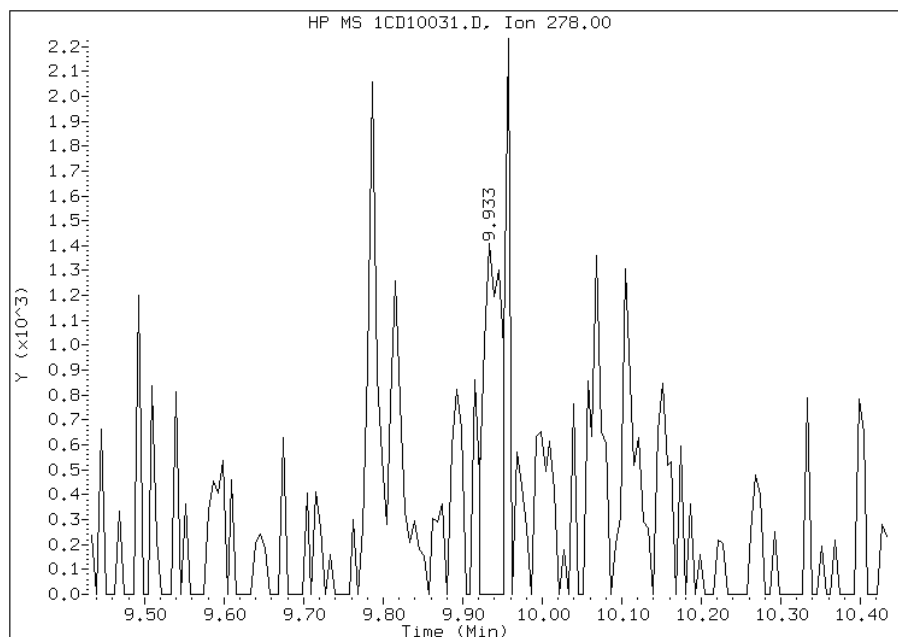
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10031.D
Inj. Date and Time: 10-APR-2013 21:52
Instrument ID: BSMC5973.i
Client ID: CV0717B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

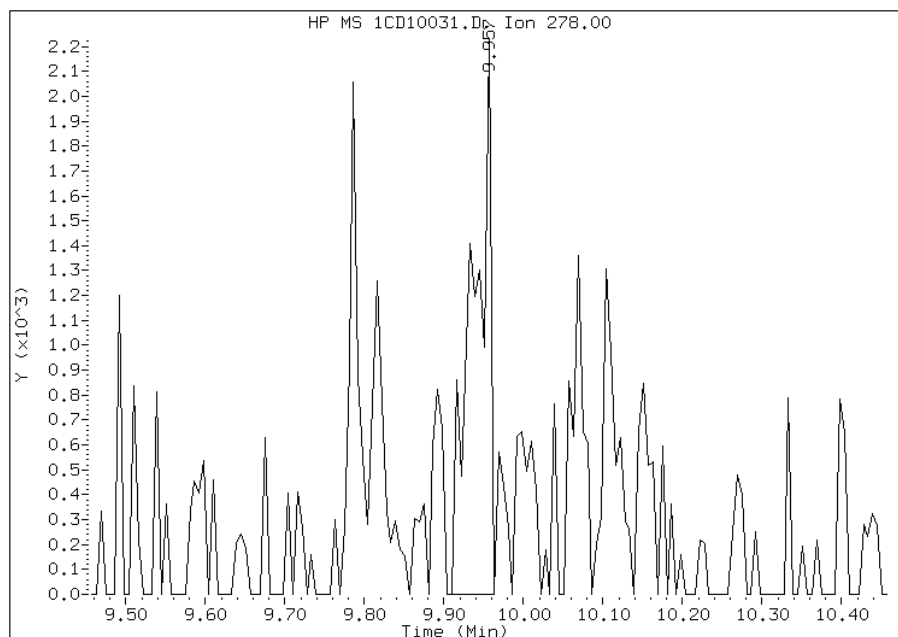
Processing Integration Results

RT: 9.93
Response: 2252
Amount: 0
Conc: 17



Manual Integration Results

RT: 9.96
Response: 3342
Amount: 0
Conc: 25



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:16
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0167A-CS-SP</u>	Lab Sample ID: <u>680-88980-14</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10032.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 12:35</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.15(g)</u>	Date Analyzed: <u>04/10/2013 22:10</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>34.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	60	U	60	7.6
120-12-7	Anthracene	13	U	13	6.3
56-55-3	Benzo[a]anthracene	12	U	12	5.9
50-32-8	Benzo[a]pyrene	16		16	7.9
205-99-2	Benzo[b]fluoranthene	21		18	9.2
191-24-2	Benzo[g,h,i]perylene	17	J	30	6.6
207-08-9	Benzo[k]fluoranthene	8.0	J	12	5.4
218-01-9	Chrysene	16		14	6.8
53-70-3	Dibenz(a,h)anthracene	30	U	30	6.2
206-44-0	Fluoranthene	17	J	30	6.0
86-73-7	Fluorene	30	U	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	30	U	30	11
90-12-0	1-Methylnaphthalene	7.6	J	60	6.6
91-57-6	2-Methylnaphthalene	14	J	60	11
91-20-3	Naphthalene	24	J	60	6.6
85-01-8	Phenanthrene	16		12	5.9
129-00-0	Pyrene	21	J	30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10032.D
Lab Smp Id: 680-88980-A-14-A Client Smp ID: HP0167A-CS-SP
Inj Date : 10-APR-2013 22:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-14-a
Misc Info : 680-88980-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	34.466	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		408612	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		306913	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		587875	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		57404	6.70775	675.6122
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		627896	40.0000	
* 23 Perylene-d12	264		8.803	8.809	(1.000)		587693	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		2539	0.24192	24.3666(Q)
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		996	0.13941	14.0419
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		487	0.07576	7.6304(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		2748	0.16050	16.1656
15 Fluoranthene	202		6.557	6.557	(1.148)		3151	0.16664	16.7844
16 Pyrene	202		6.727	6.727	(0.880)		3662	0.21054	21.2060
19 Chrysene	228		7.662	7.668	(1.002)		2849	0.15923	16.0378(Q)
20 Benzo(b)fluoranthene	252		8.474	8.474	(0.963)		3501	0.21072	21.2238(QM)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
21 Benzo(k)fluoranthene	252	8.486	8.498	(0.964)	1281	0.07972	8.0292(QM)
22 Benzo(a)pyrene	252	8.745	8.756	(0.993)	2553	0.16321	16.4388
26 Benzo(g,h,i)perylene	276	10.262	10.280	(1.166)	2505	0.16520	16.6390(M)

QC Flag Legend

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

Data File: 1CD10032.D

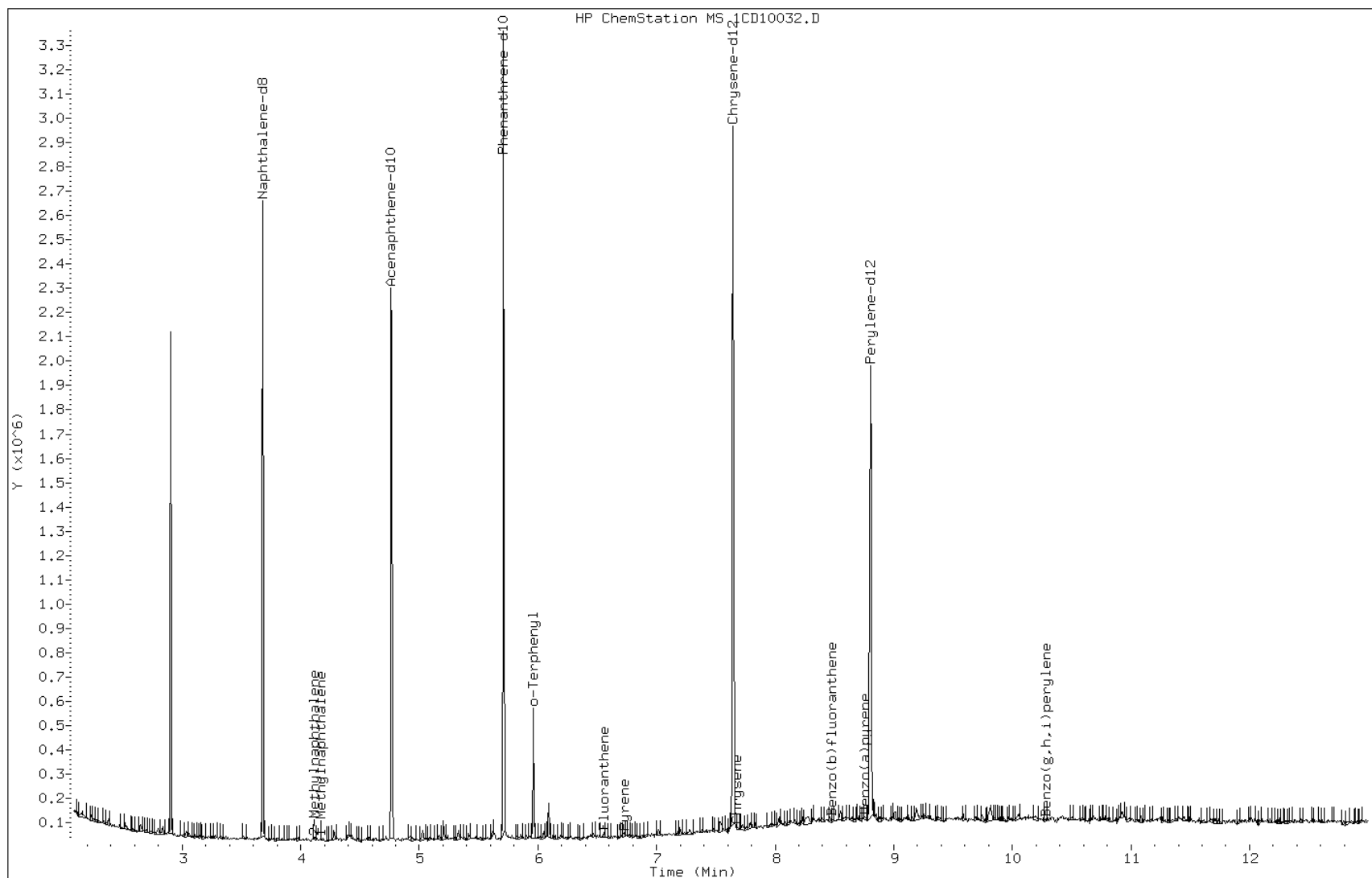
Date: 10-APR-2013 22:10

Client ID: HP0167A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-14-a

Operator: SCC



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

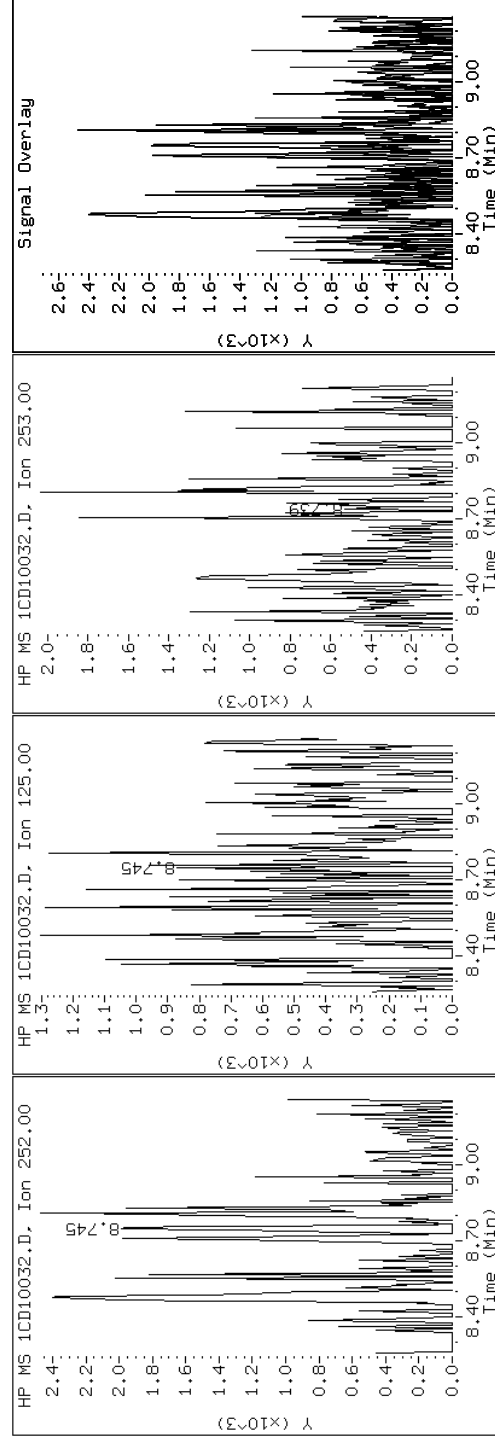
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

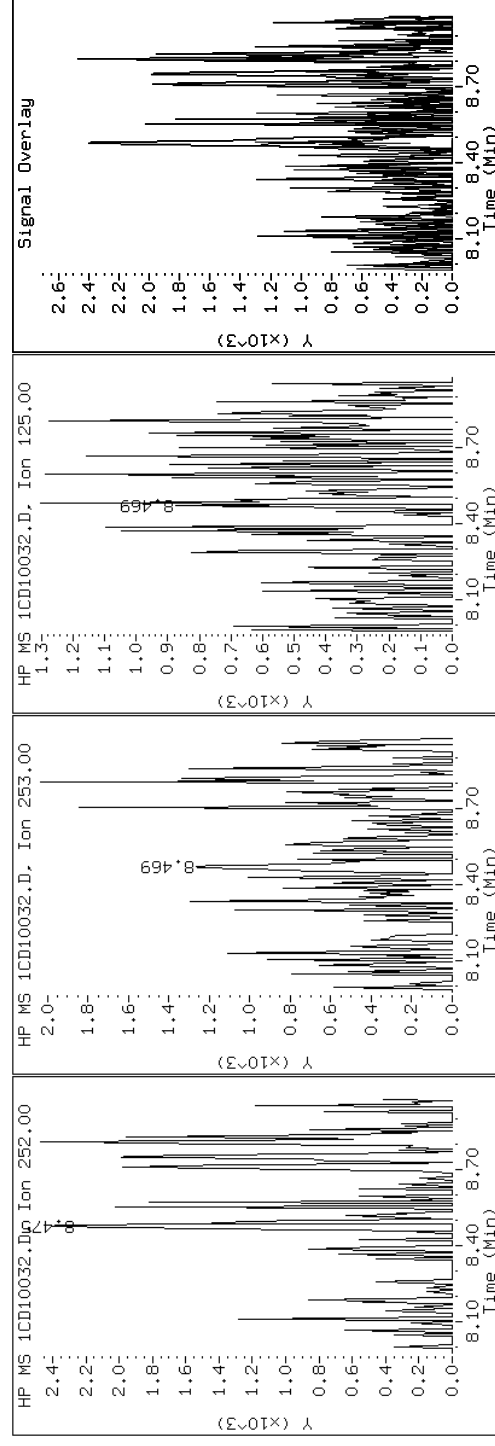
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

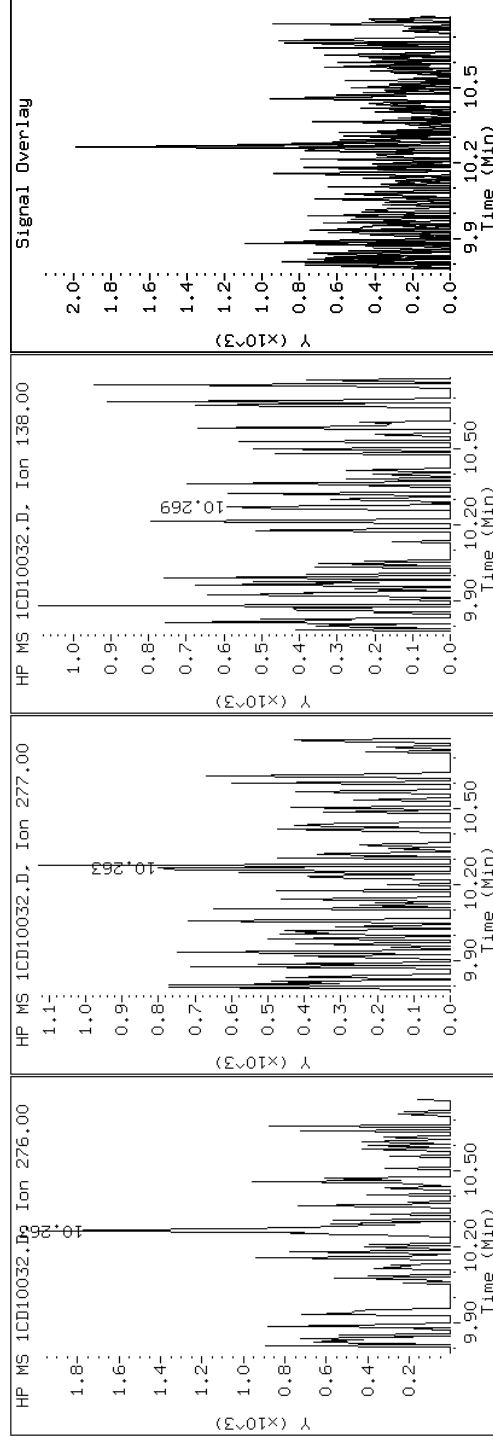
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

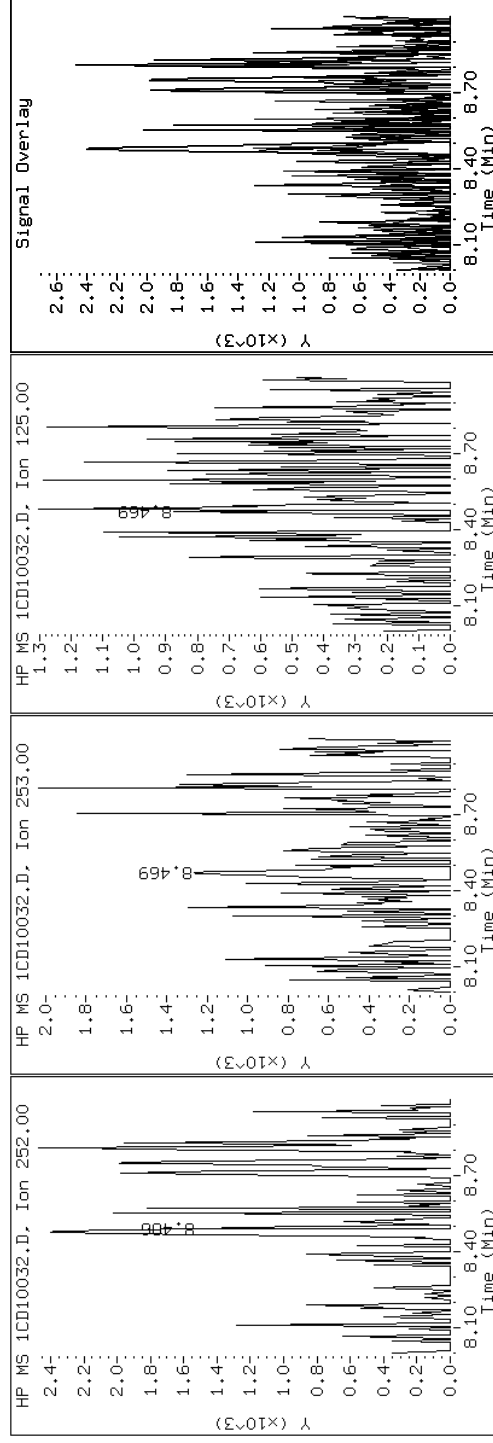
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

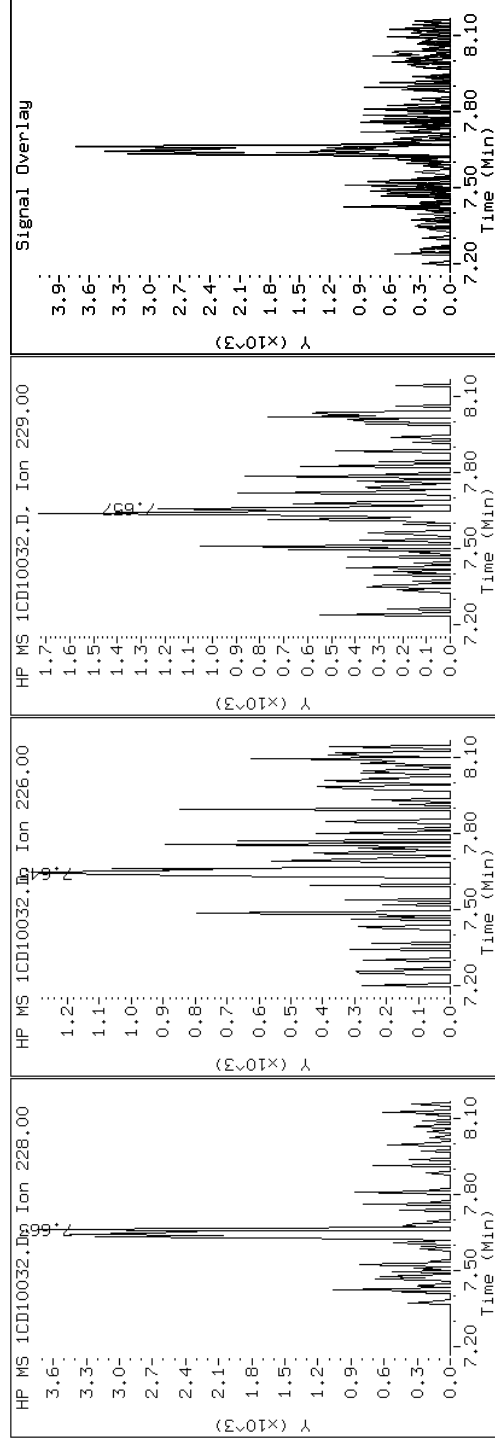
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

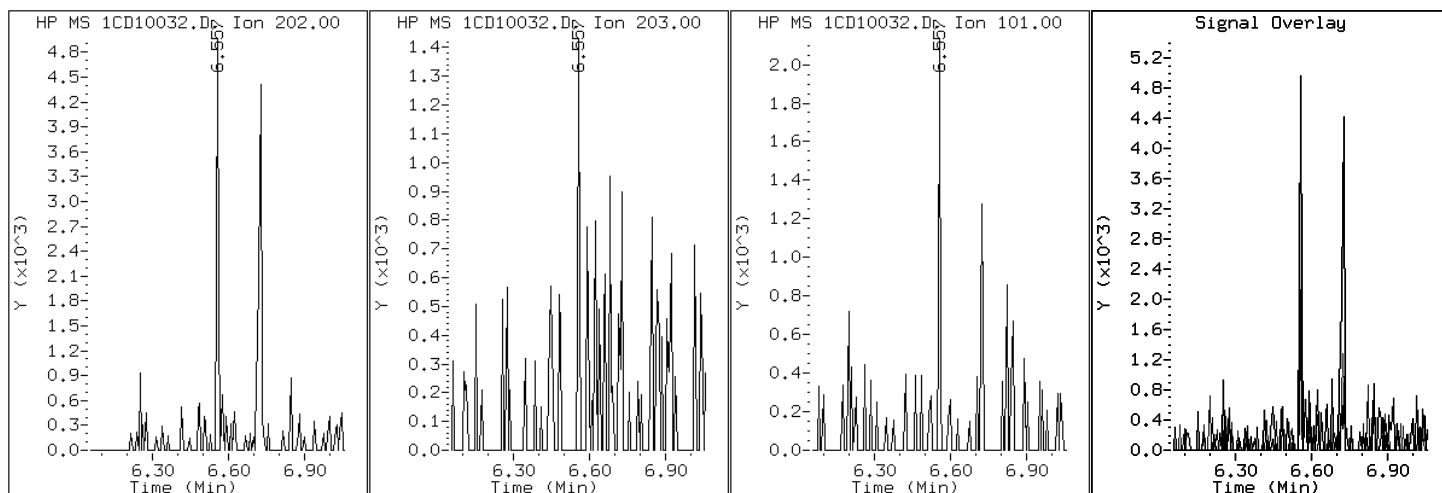
Client ID: HP0167A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

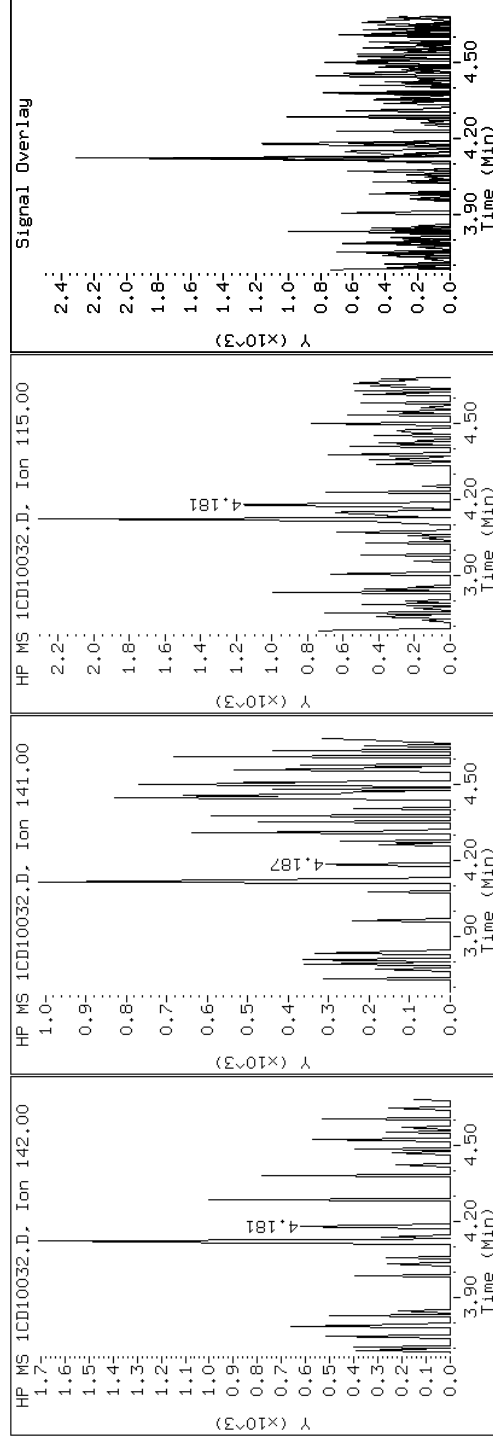
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

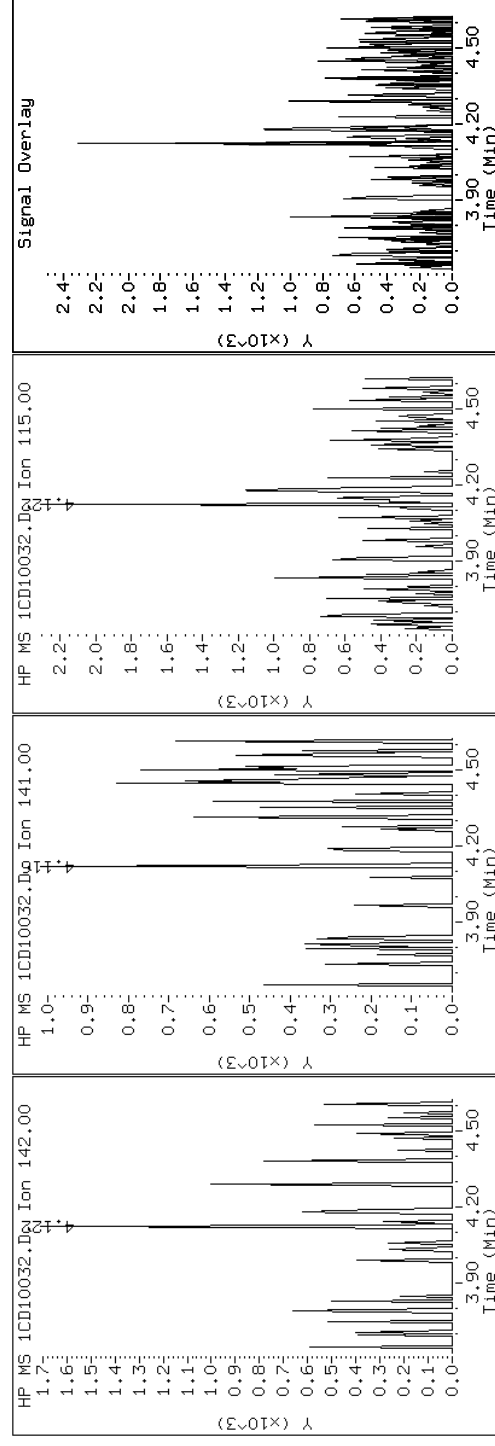
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

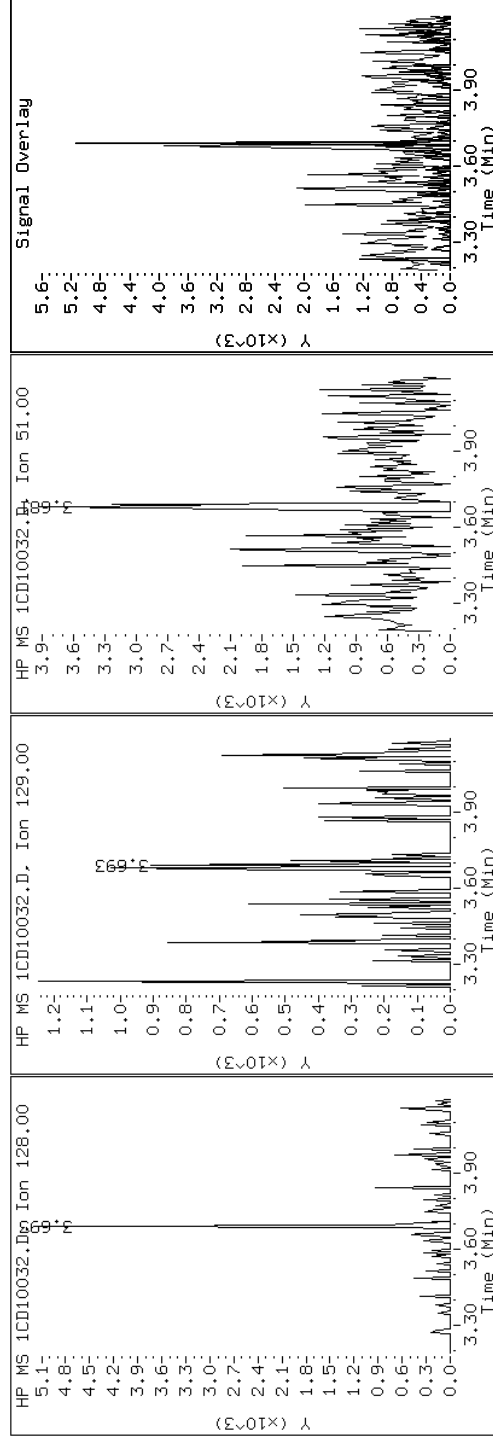
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

2 Naphthalene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

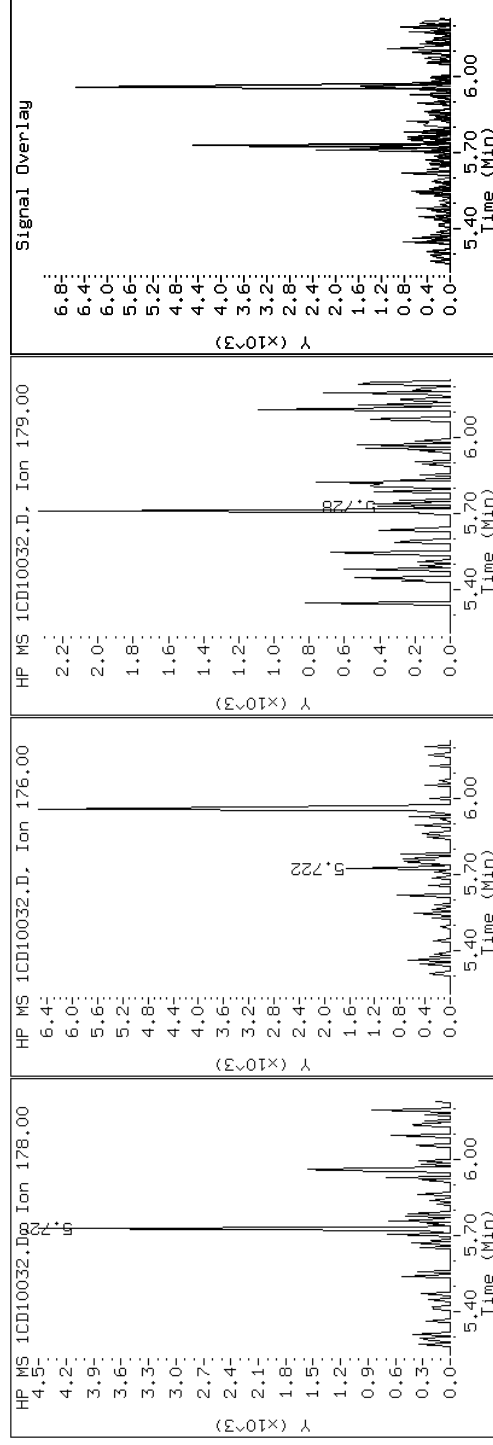
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10032.D

Date: 10-APR-2013 22:10

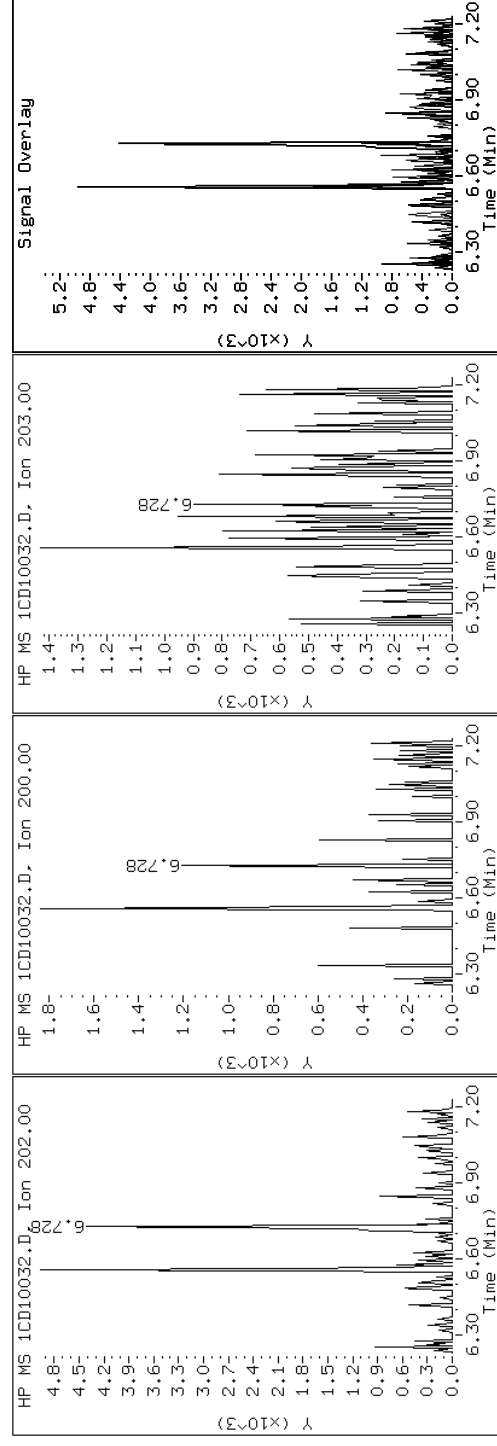
Client ID: HP0167A-CS-SP

Sample Info: 680-88980-a-14-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

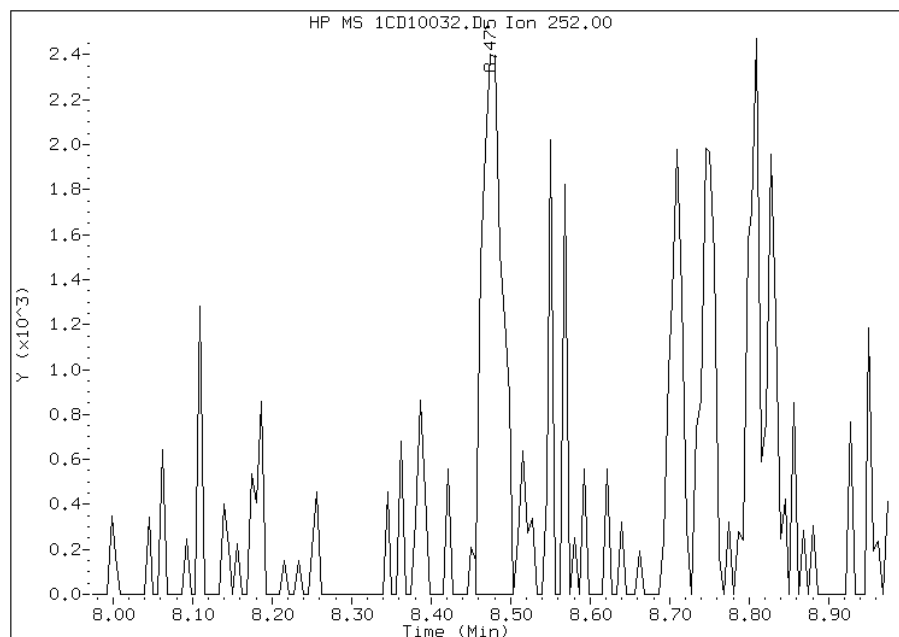


Manual Integration Report

Data File: 1CD10032.D
Inj. Date and Time: 10-APR-2013 22:10
Instrument ID: BSMC5973.i
Client ID: HP0167A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

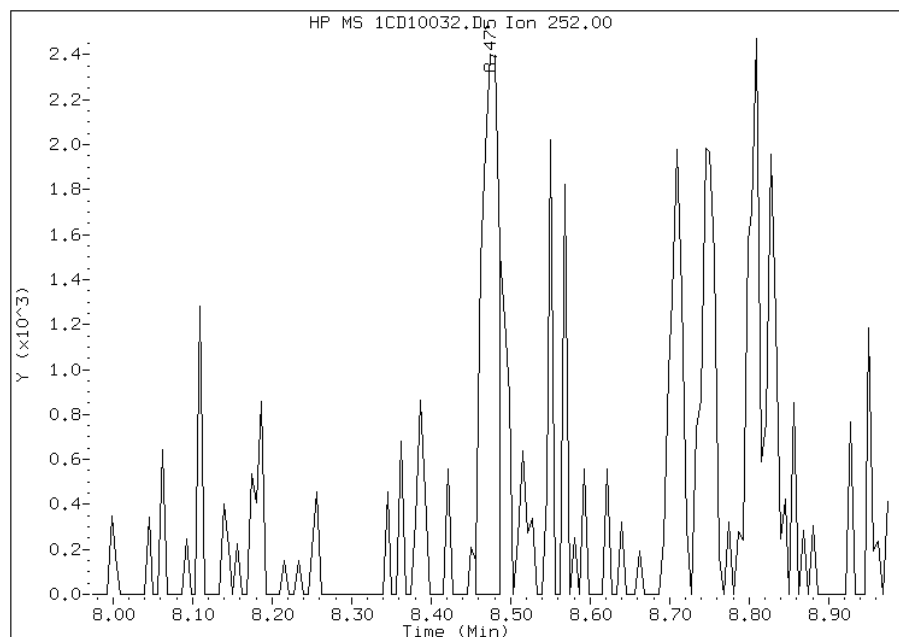
Processing Integration Results

RT: 8.47
Response: 4244
Amount: 0
Conc: 26



Manual Integration Results

RT: 8.47
Response: 3501
Amount: 0
Conc: 21



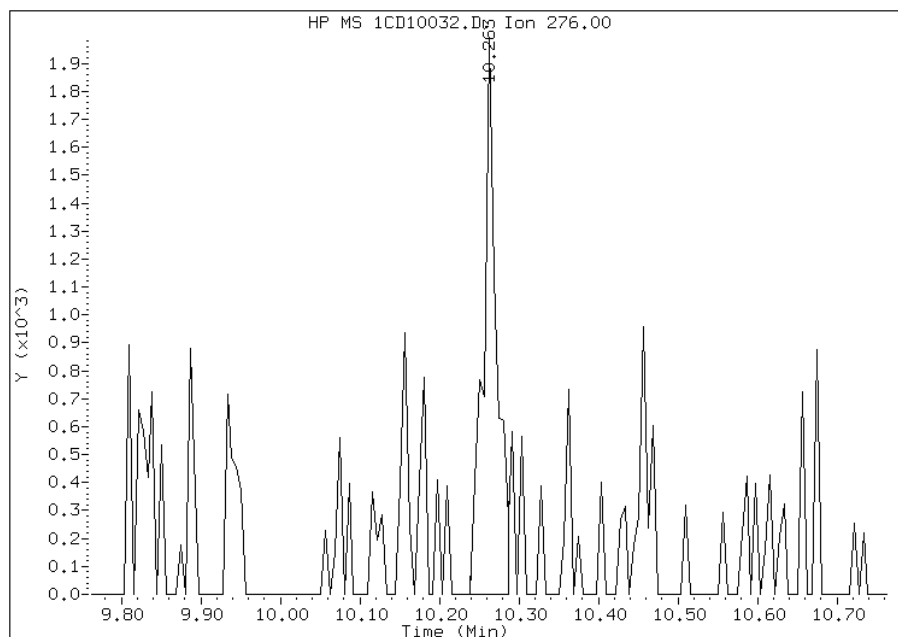
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10032.D
Inj. Date and Time: 10-APR-2013 22:10
Instrument ID: BSMC5973.i
Client ID: HP0167A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

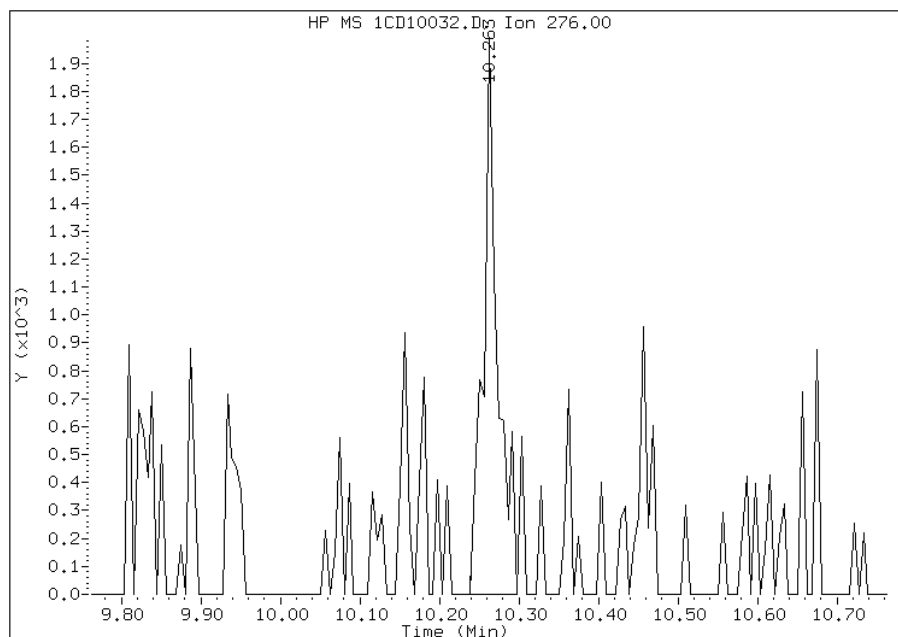
Processing Integration Results

RT: 10.26
Response: 2304
Amount: 0
Conc: 15



Manual Integration Results

RT: 10.26
Response: 2505
Amount: 0
Conc: 17



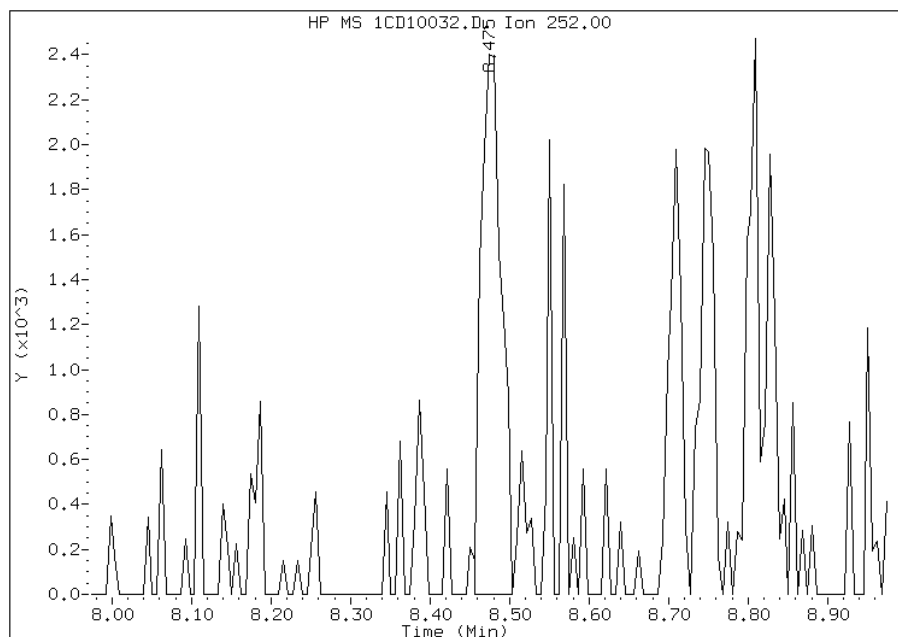
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10032.D
Inj. Date and Time: 10-APR-2013 22:10
Instrument ID: BSMC5973.i
Client ID: HP0167A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

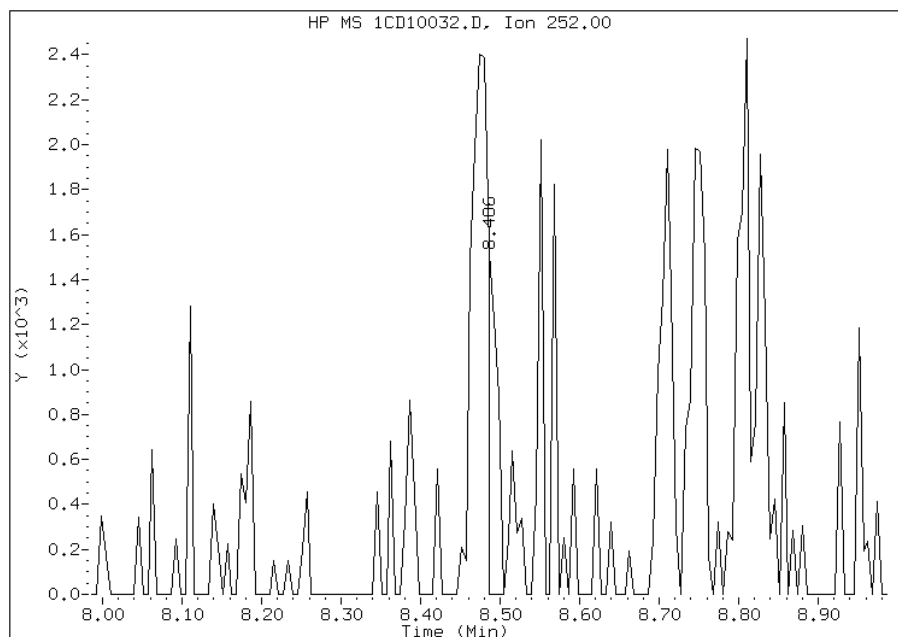
Processing Integration Results

RT: 8.47
Response: 4244
Amount: 0
Conc: 27



Manual Integration Results

RT: 8.49
Response: 1281
Amount: 0
Conc: 8



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:19
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>HP0167B-CS-SP</u>	Lab Sample ID: <u>680-88980-15</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10033.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 12:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.27(g)</u>	Date Analyzed: <u>04/10/2013 22:29</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>36.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	62	U	62	7.7
120-12-7	Anthracene	13	U	13	6.5
56-55-3	Benzo[a]anthracene	12	U	12	6.0
50-32-8	Benzo[a]pyrene	11	J	16	8.0
205-99-2	Benzo[b]fluoranthene	13	J	19	9.4
191-24-2	Benzo[g,h,i]perylene	31	U	31	6.8
207-08-9	Benzo[k]fluoranthene	9.6	J	12	5.6
218-01-9	Chrysene	14	U	14	7.0
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.3
206-44-0	Fluoranthene	13	J	31	6.2
86-73-7	Fluorene	31	U	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	31	U	31	11
90-12-0	1-Methylnaphthalene	62	U	62	6.8
91-57-6	2-Methylnaphthalene	29	J	62	11
91-20-3	Naphthalene	15	J	62	6.8
85-01-8	Phenanthrene	6.8	J	12	6.0
129-00-0	Pyrene	14	J	31	5.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10033.D
Lab Smp Id: 680-88980-A-15-A Client Smp ID: HP0167B-CS-SP
Inj Date : 10-APR-2013 22:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-15-a
Misc Info : 680-88980-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	36.518	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		391770	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		284049	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		518233	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		43826	5.90649	609.3124
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		603128	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		563091	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		1493	0.14837	15.3060(Q)
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		1925	0.28103	28.9913(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		995	0.06592	6.8006(Q)
15 Fluoranthene	202		6.557	6.557	(1.148)		2069	0.12412	12.8046
16 Pyrene	202		6.727	6.727	(0.880)		2283	0.13665	14.0966
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.961)		2062	0.12953	13.3623
21 Benzo(k)fluoranthene	252		8.492	8.498	(0.964)		1434	0.09314	9.6080(H)
22 Benzo(a)pyrene	252		8.750	8.756	(0.993)		1609	0.10736	11.0748(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: 1CD10033.D

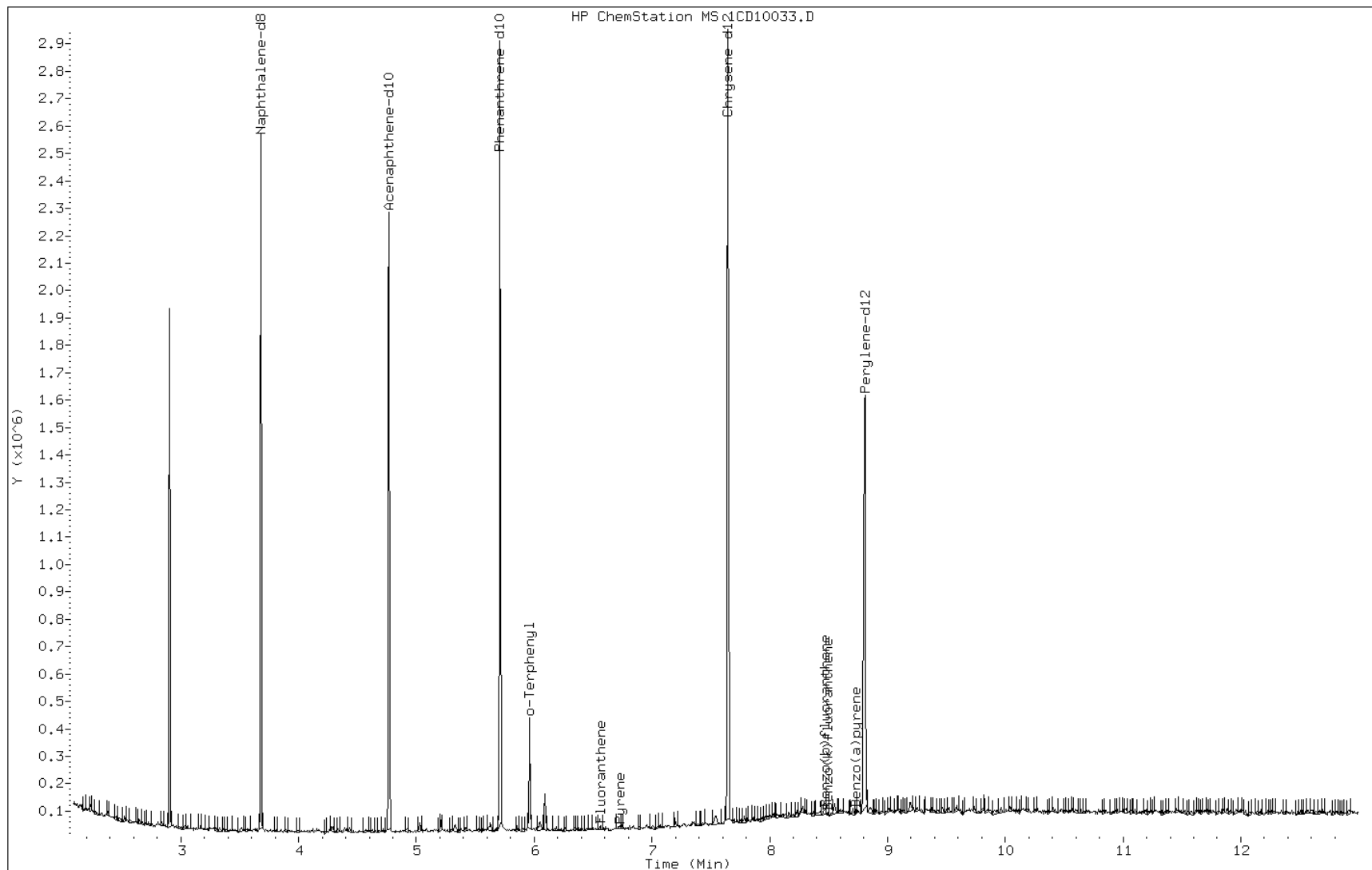
Date: 10-APR-2013 22:29

Client ID: HP0167B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-15-a

Operator: SCC



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

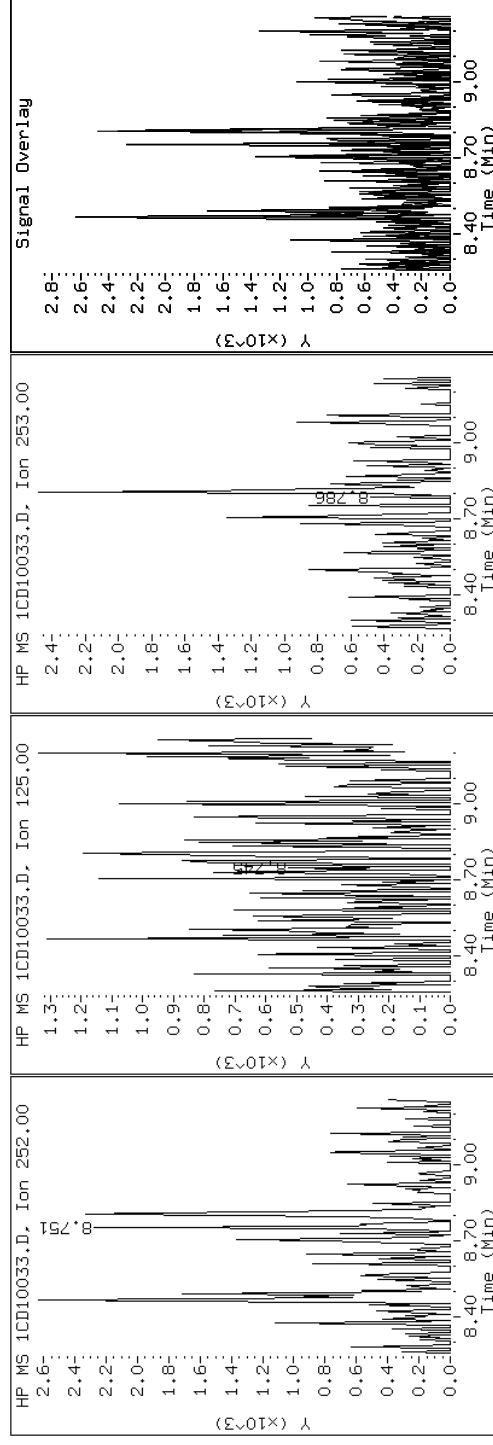
Client ID: HP0167B-CS-SP

Sample Info: 680-88980-a-15-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

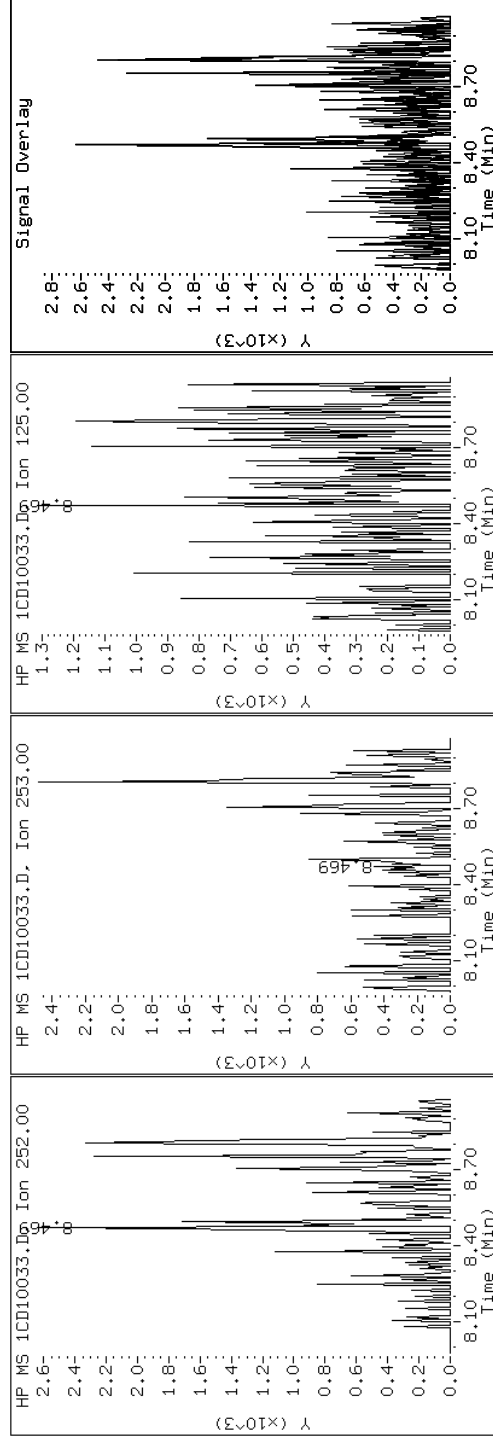
Client ID: HP0167B-CS-SP

Sample Info: 680-88980-a-15-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

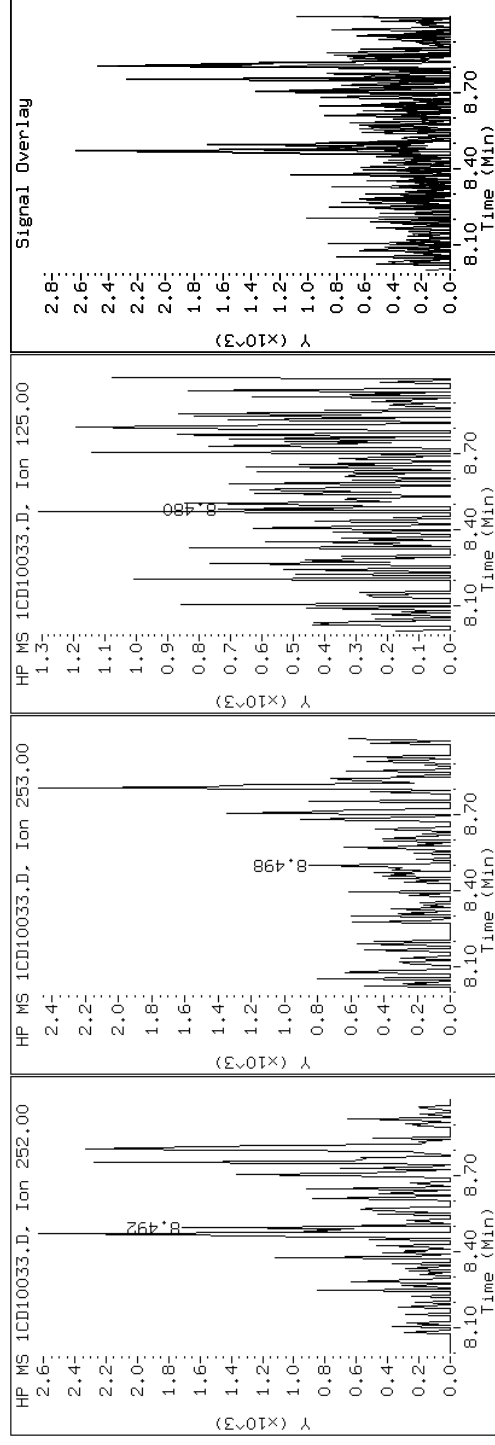
Client ID: HP0167B-CS-SP

Sample Info: 680-88980-a-15-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

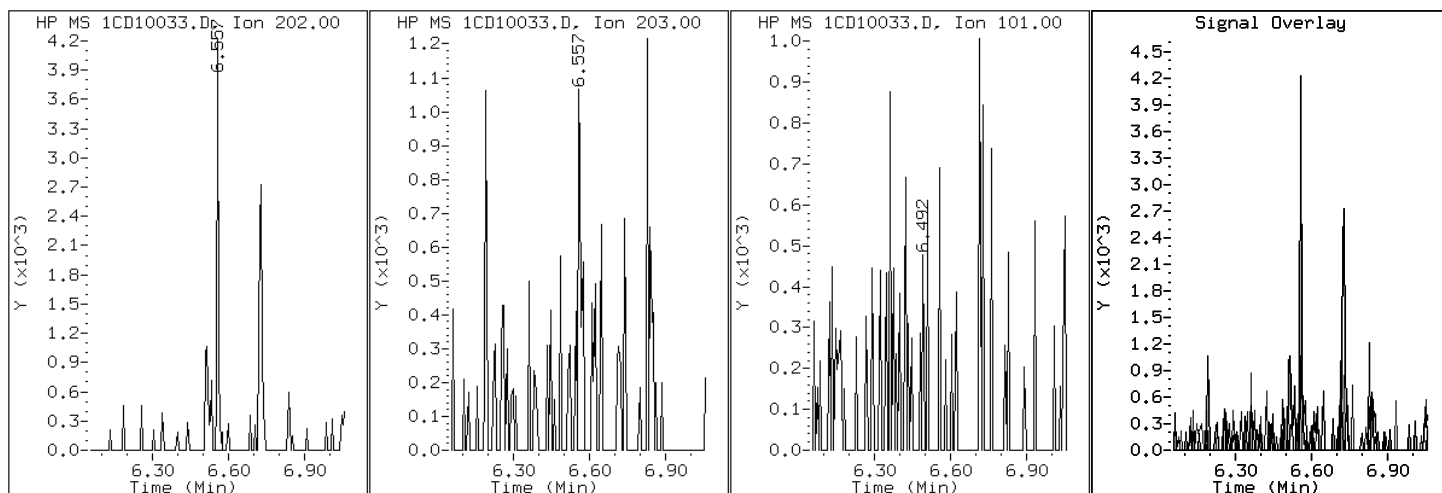
Client ID: HP0167B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

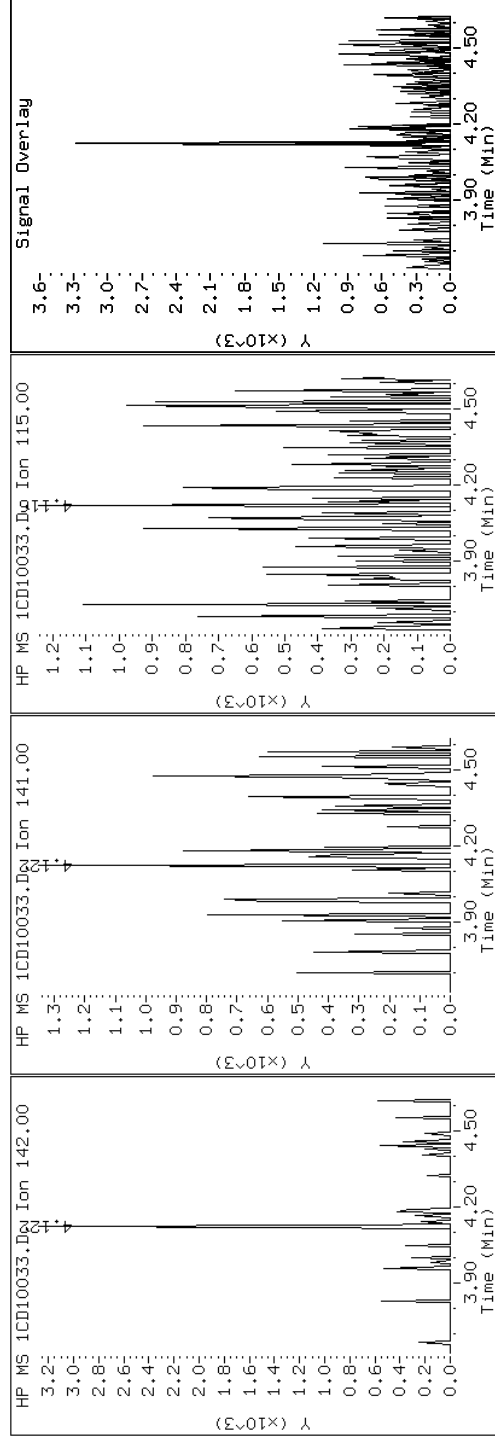
Client ID: HP0167B-CS-SP

Sample Info: 680-88980-a-15-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

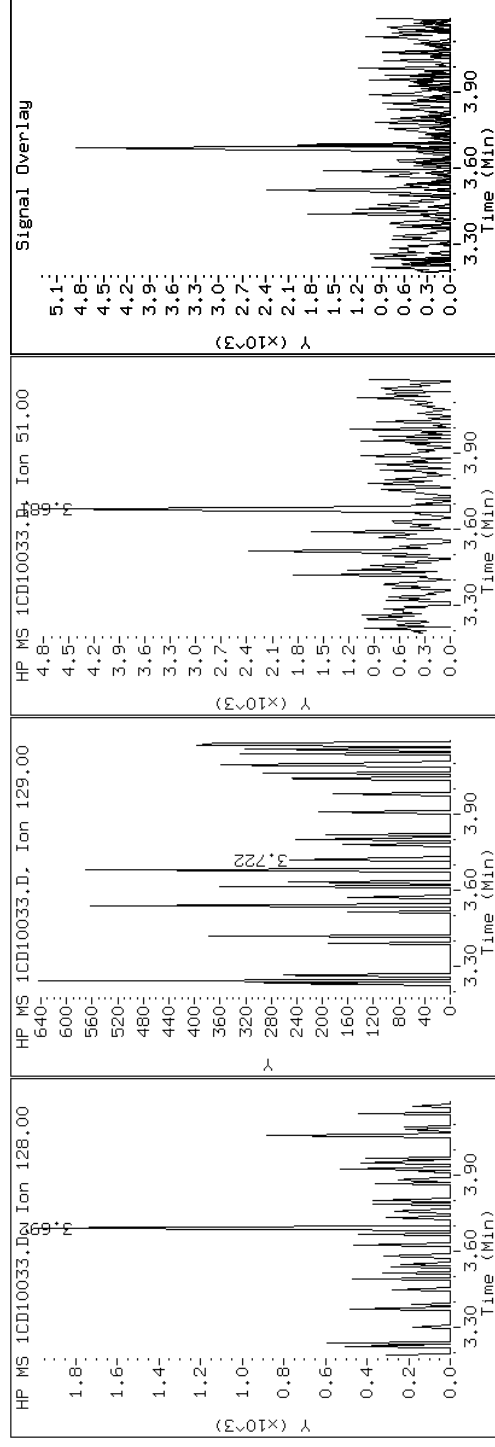
Client ID: HP0167B-CS-SP

Sample Info: 680-88980-a-15-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

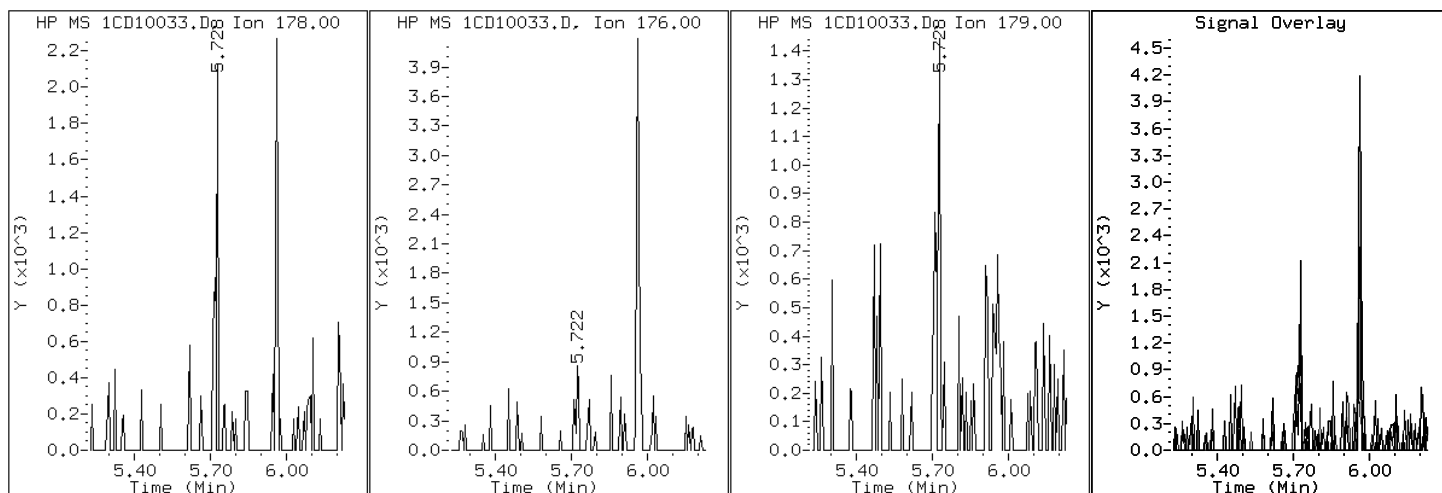
Client ID: HP0167B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10033.D

Date: 10-APR-2013 22:29

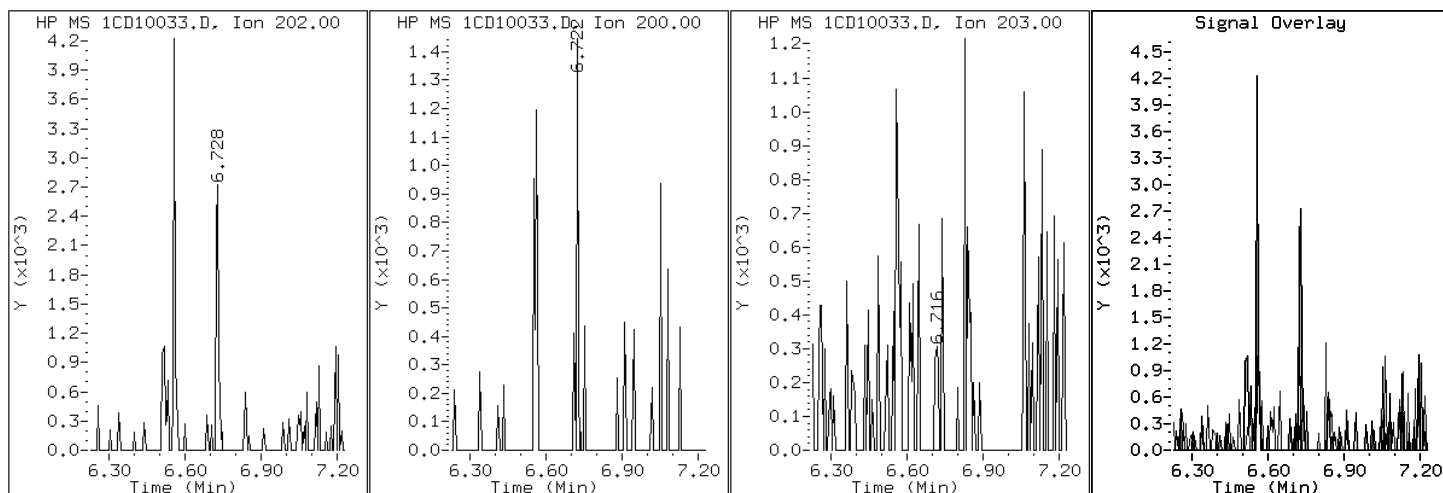
Client ID: HP0167B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-15-a

Operator: SCC

16 Pyrene

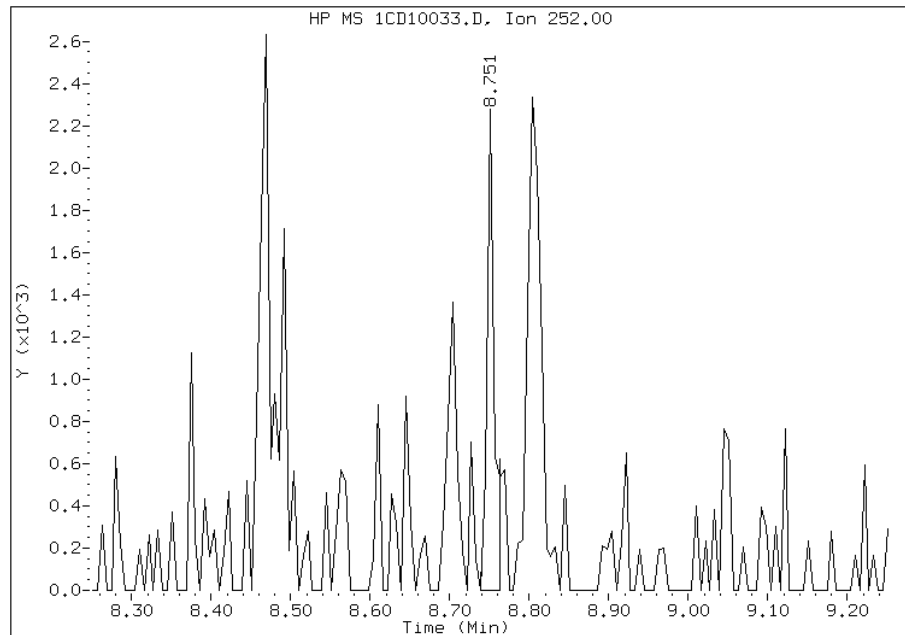


Manual Integration Report

Data File: 1CD10033.D
Inj. Date and Time: 10-APR-2013 22:29
Instrument ID: BSMC5973.i
Client ID: HP0167B-CS-SP
Compound: 22 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 04/11/2013

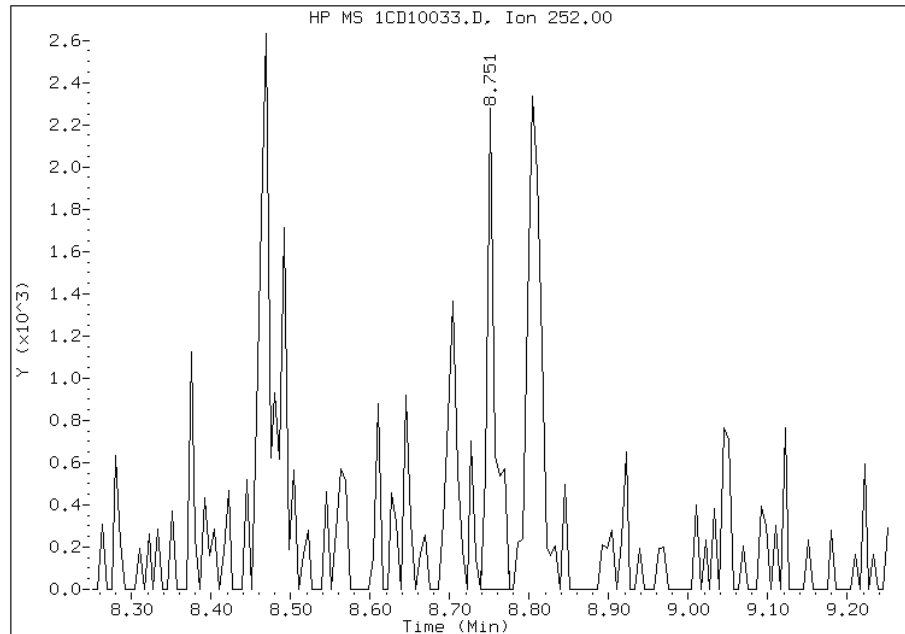
Processing Integration Results

RT: 8.75
Response: 1408
Amount: 0
Conc: 10



Manual Integration Results

RT: 8.75
Response: 1609
Amount: 0
Conc: 11



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:29
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0954A-CS-SP</u>	Lab Sample ID: <u>680-88980-16</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10034.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 13:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.14(g)</u>	Date Analyzed: <u>04/10/2013 22:47</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>39.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	66	U	66	8.2
120-12-7	Anthracene	14	U	14	6.9
56-55-3	Benzo[a]anthracene	13	U	13	6.4
50-32-8	Benzo[a]pyrene	24		17	8.5
205-99-2	Benzo[b]fluoranthene	38		20	10
191-24-2	Benzo[g,h,i]perylene	23	J	33	7.2
207-08-9	Benzo[k]fluoranthene	25		13	5.9
218-01-9	Chrysene	34		15	7.4
53-70-3	Dibenz(a,h)anthracene	33	U	33	6.7
206-44-0	Fluoranthene	27	J	33	6.6
86-73-7	Fluorene	33	U	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	14	J	33	12
90-12-0	1-Methylnaphthalene	10	J	66	7.2
91-57-6	2-Methylnaphthalene	14	J	66	12
91-20-3	Naphthalene	66	U	66	7.2
85-01-8	Phenanthrene	47		13	6.4
129-00-0	Pyrene	53		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10034.D
Lab Smp Id: 680-88980-A-16-A Client Smp ID: CV0954A-CS-SP
Inj Date : 10-APR-2013 22:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-16-a
Misc Info : 680-88980-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	39.530	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		405921	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		293160	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		544653	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		52397	6.61928	723.0094
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		590168	40.0000	
* 23 Perylene-d12	264		8.804	8.809	(1.000)		566075	40.0000	
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		899	0.12667	13.8359
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		583	0.09129	9.9717(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		6844	0.43145	47.1262
13 Carbazole	167		5.868	5.868	(1.028)		1199	0.08703	9.5062(Q)
15 Fluoranthene	202		6.557	6.557	(1.148)		4320	0.24660	26.9352
16 Pyrene	202		6.727	6.727	(0.880)		7905	0.48354	52.8162
19 Chrysene	228		7.662	7.668	(1.002)		5266	0.31313	34.2027
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.962)		5585	0.34899	38.1192(M)

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL			ON-COLUMN	FINAL
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
21 Benzo(k)fluoranthene	252	8.480	8.498	(0.963)	3494	0.22574	24.6567(M)
22 Benzo(a)pyrene	252	8.756	8.756	(0.995)	3360	0.22301	24.3584(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.128)	1834	0.12816	13.9982
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	3022	0.20691	22.5998(M)

QC Flag Legend

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

Data File: 1CD10034.D

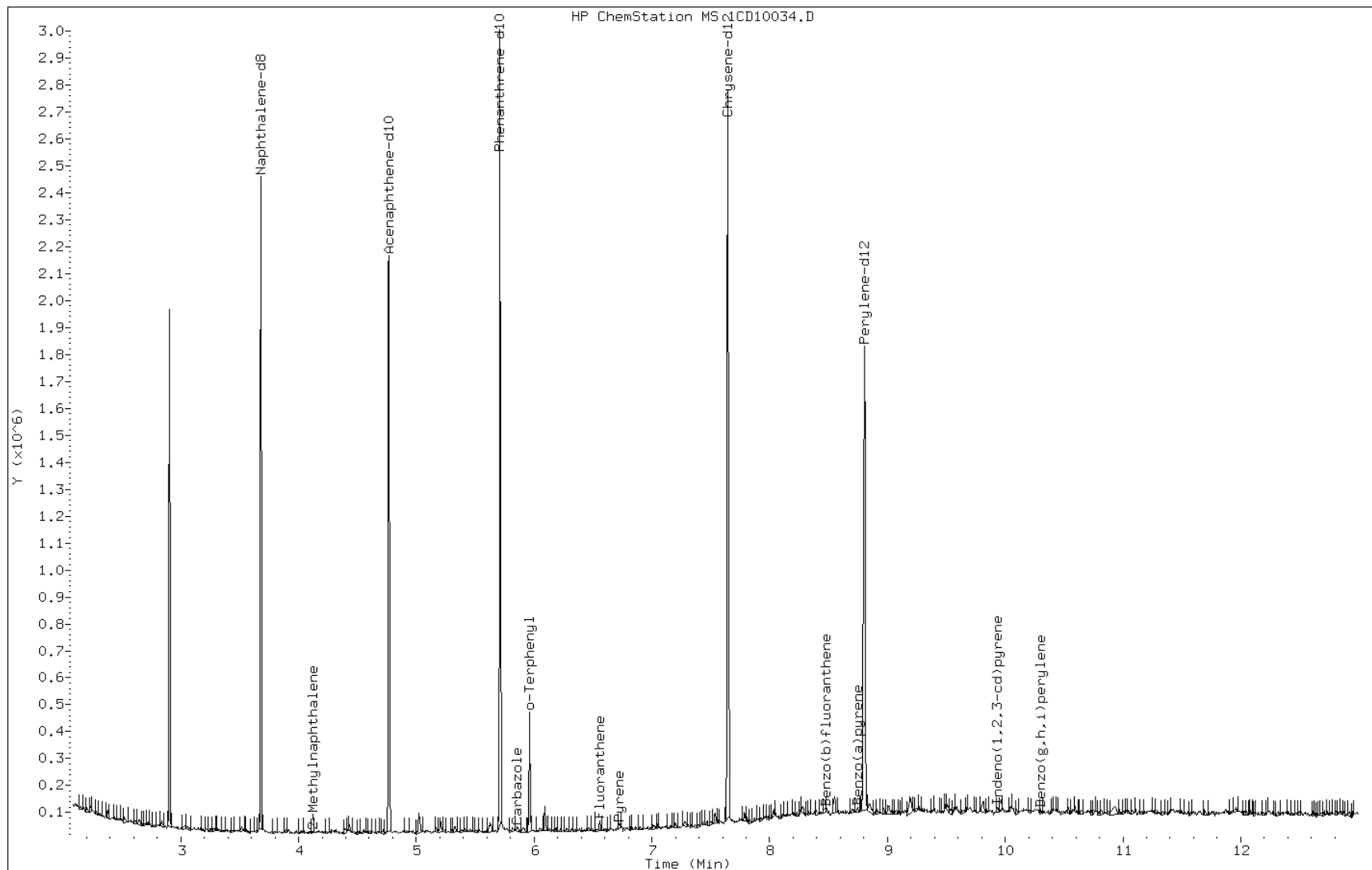
Date: 10-APR-2013 22:47

Client ID: CV0954A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-16-a

Operator: SCC



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

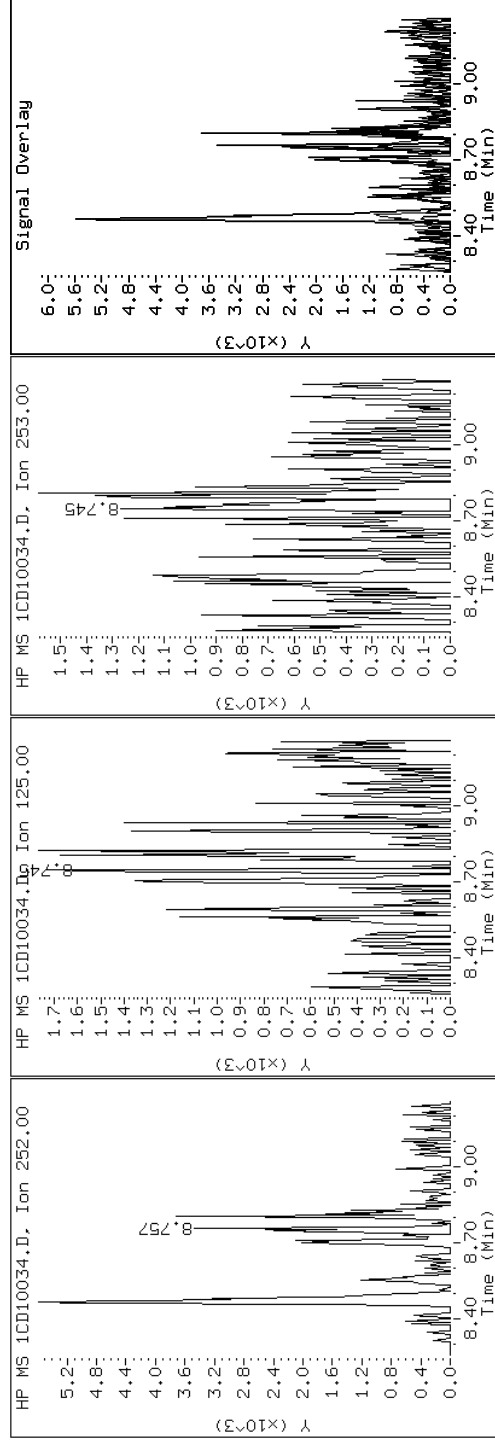
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

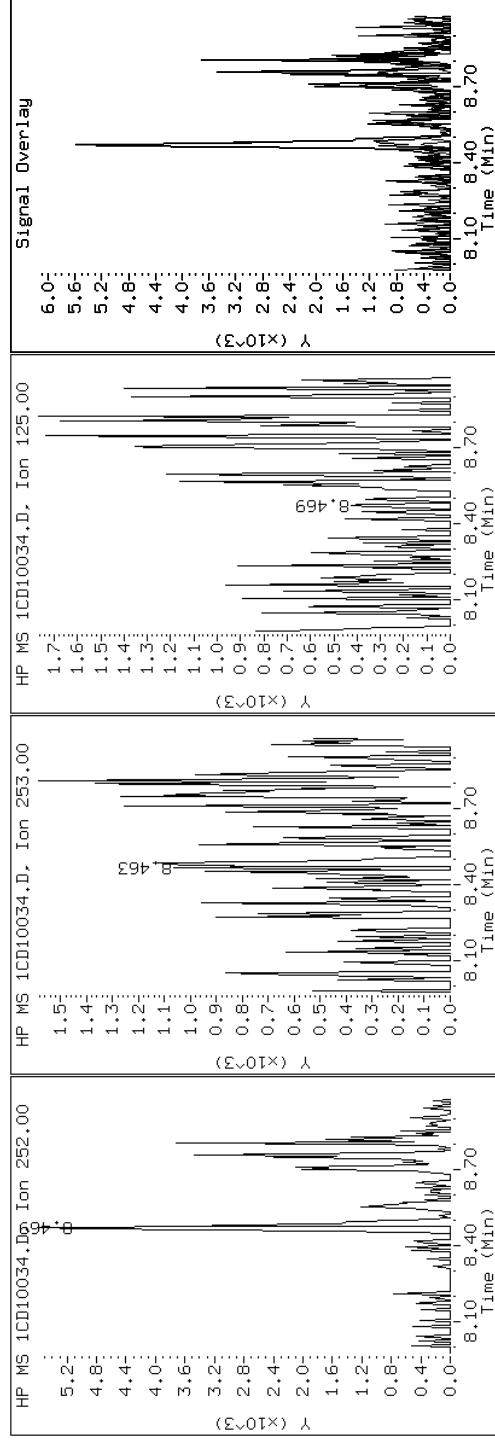
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

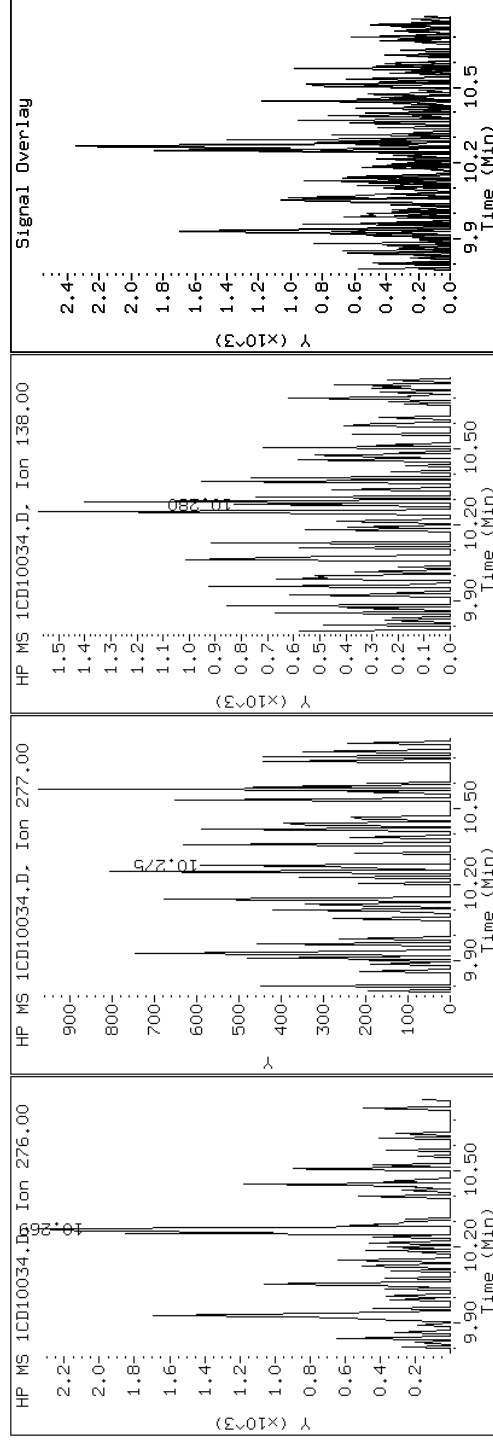
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

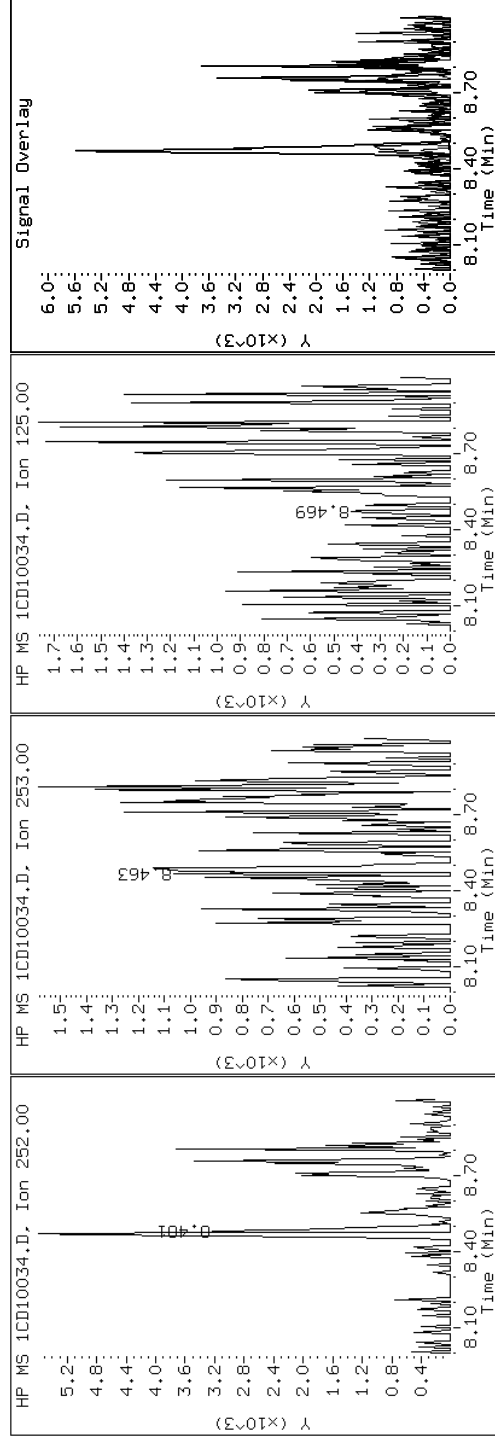
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

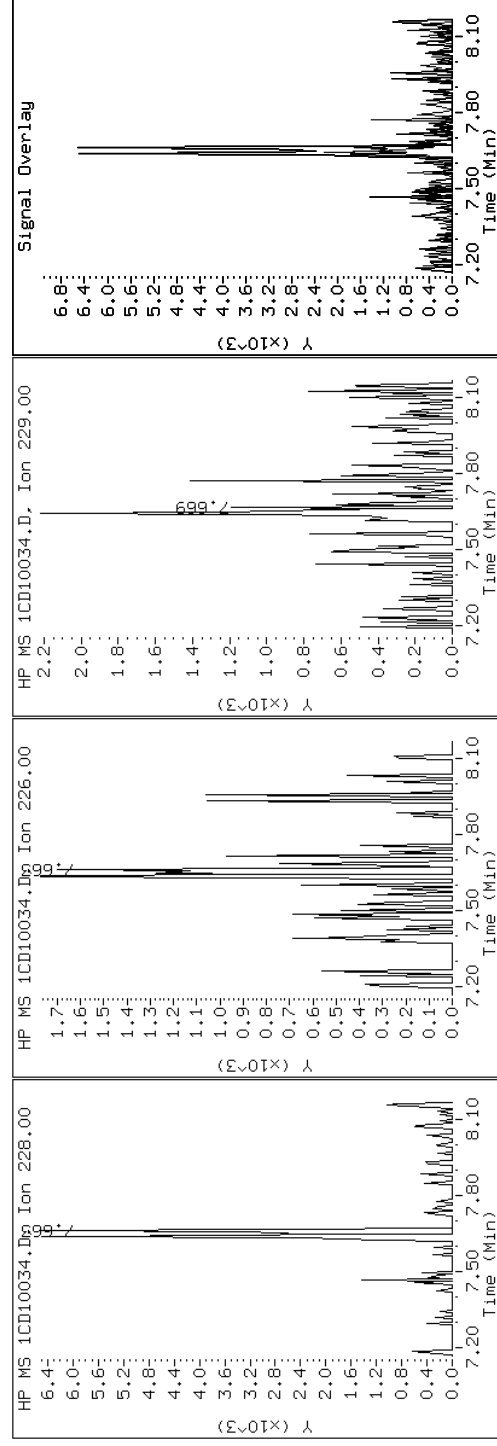
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

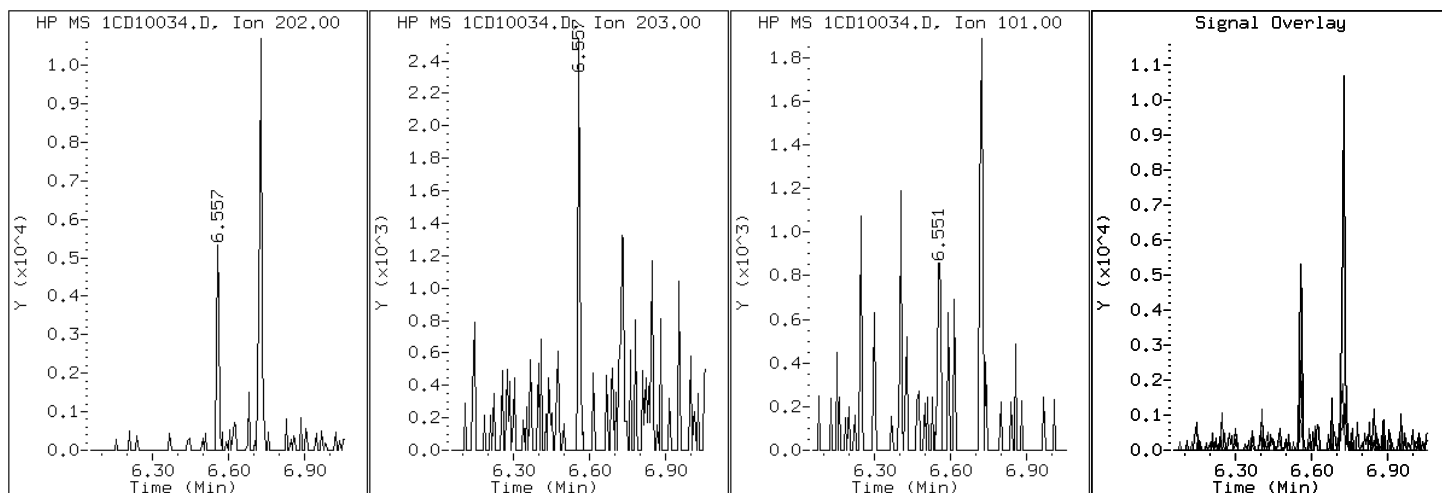
Client ID: CV0954A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

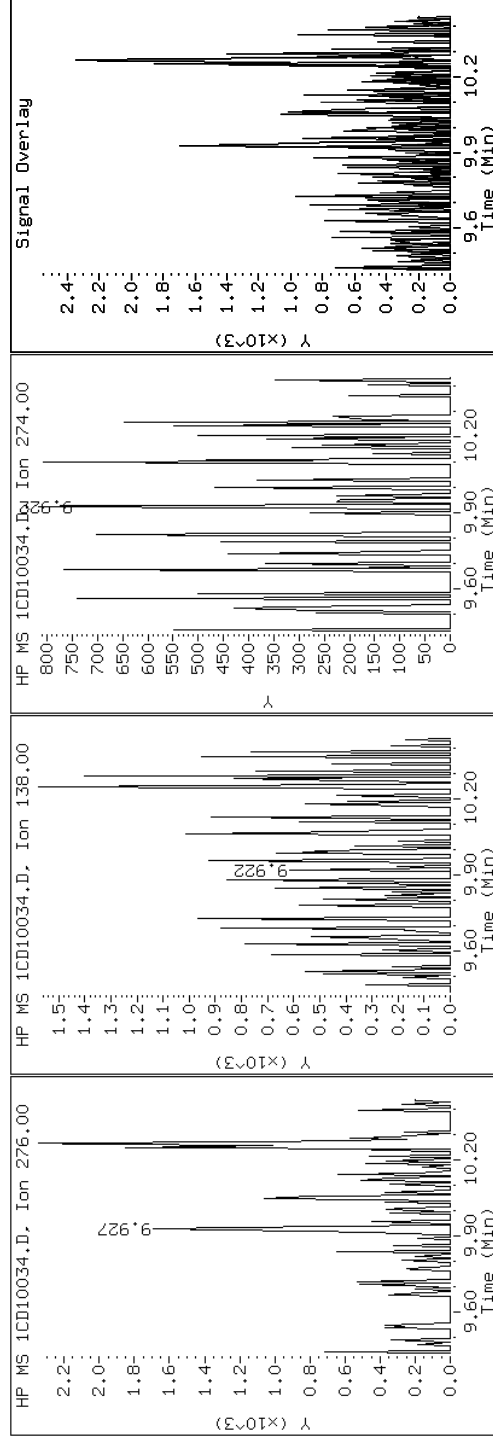
Client ID: CV0954A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-16-a

Operator: SCC

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



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

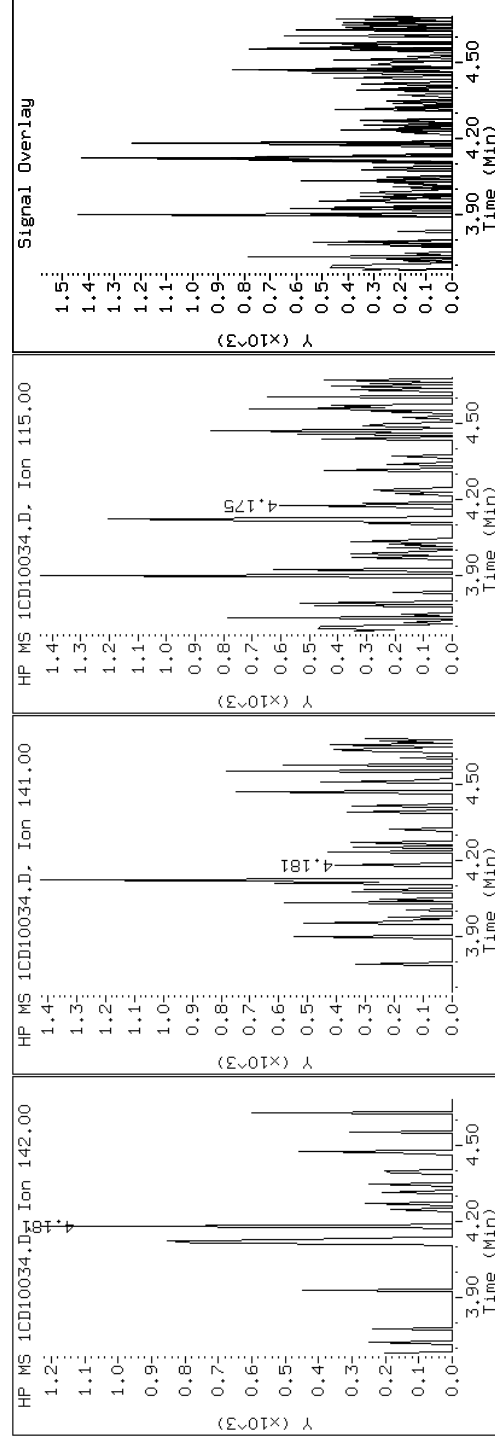
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

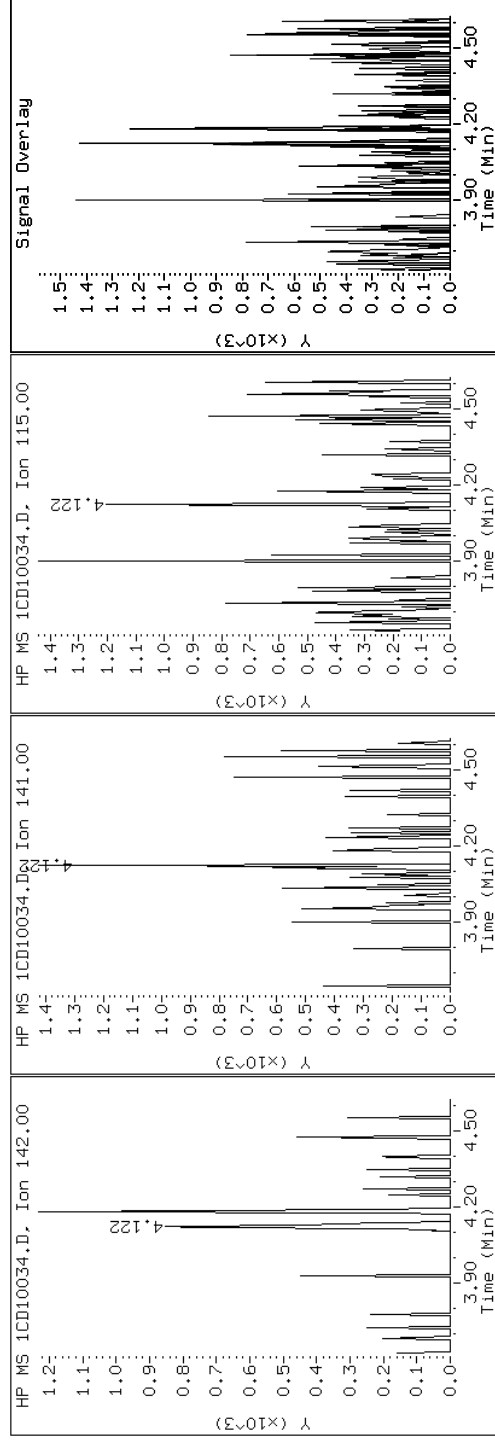
Client ID: CV0954A-CS-SP

Sample Info: 680-88980-a-16-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

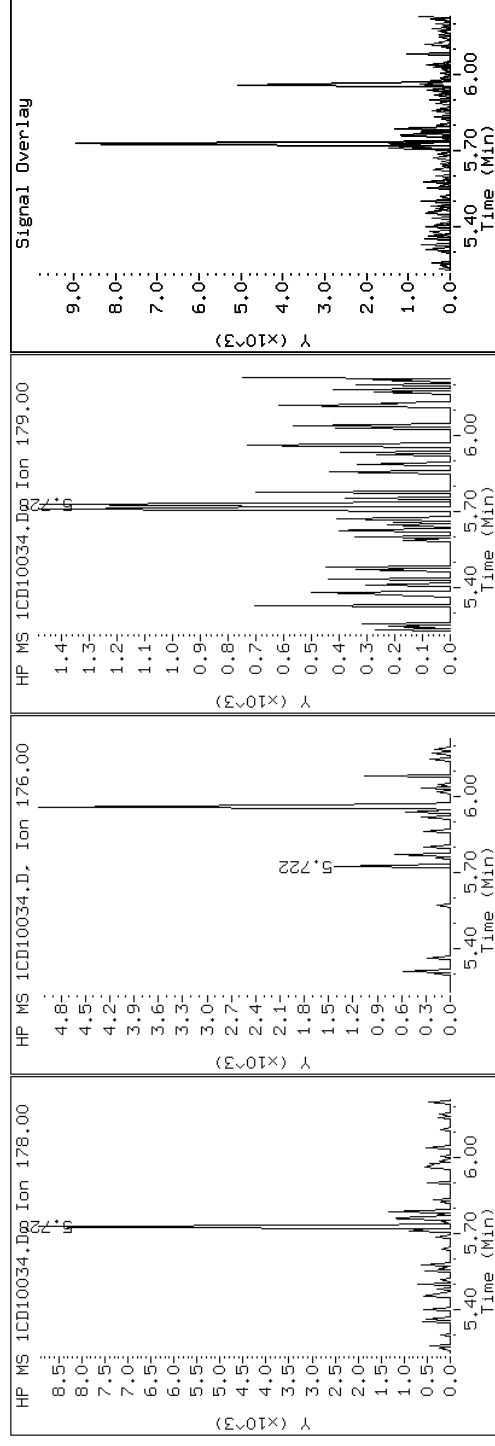
Client ID: CV0954A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10034.D

Date: 10-APR-2013 22:47

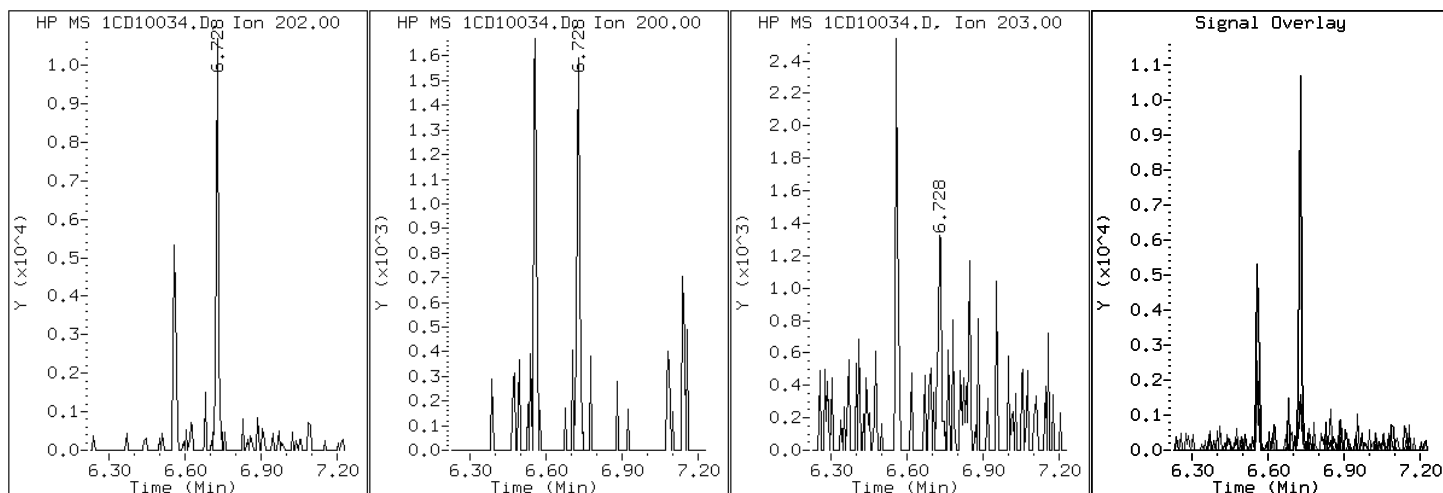
Client ID: CV0954A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-16-a

Operator: SCC

16 Pyrene

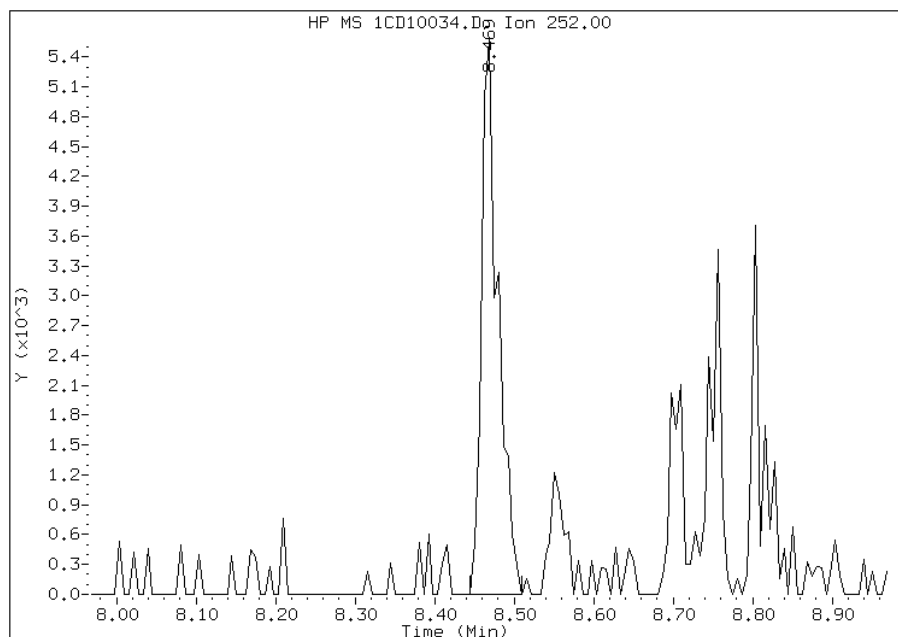


Manual Integration Report

Data File: 1CD10034.D
Inj. Date and Time: 10-APR-2013 22:47
Instrument ID: BSMC5973.i
Client ID: CV0954A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/11/2013

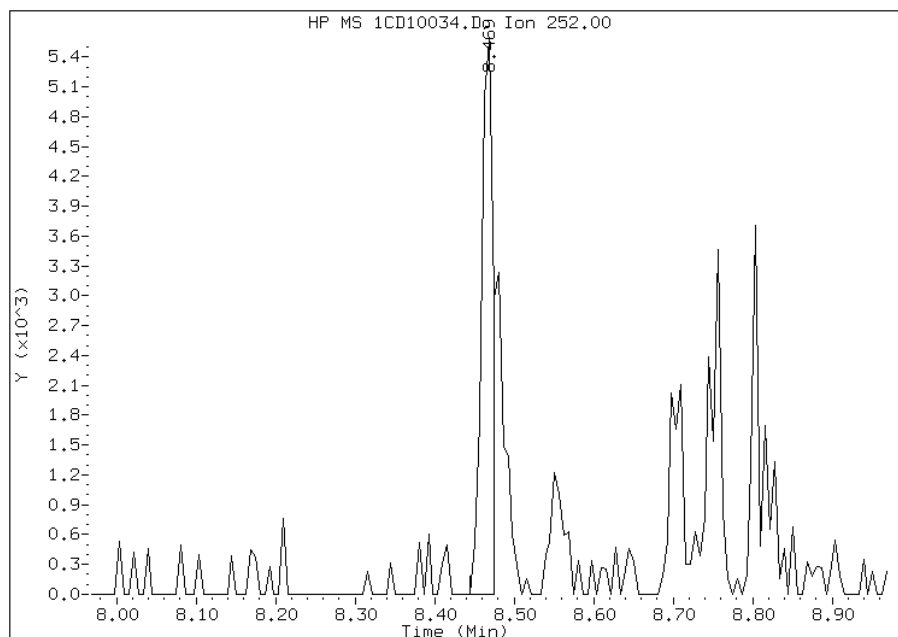
Processing Integration Results

RT: 8.47
Response: 8057
Amount: 1
Conc: 55



Manual Integration Results

RT: 8.47
Response: 5585
Amount: 0
Conc: 38



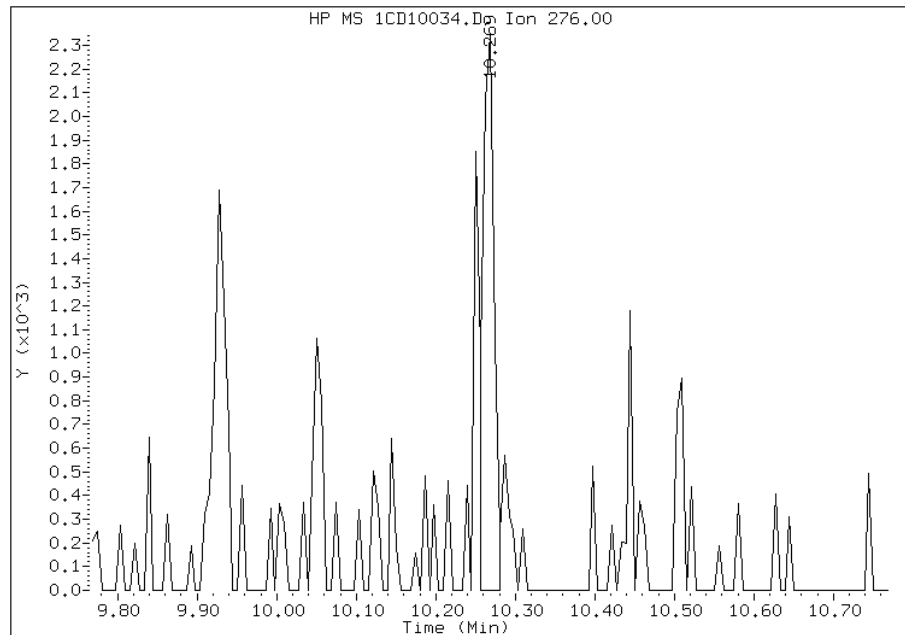
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD10034.D
Inj. Date and Time: 10-APR-2013 22:47
Instrument ID: BSMC5973.i
Client ID: CV0954A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

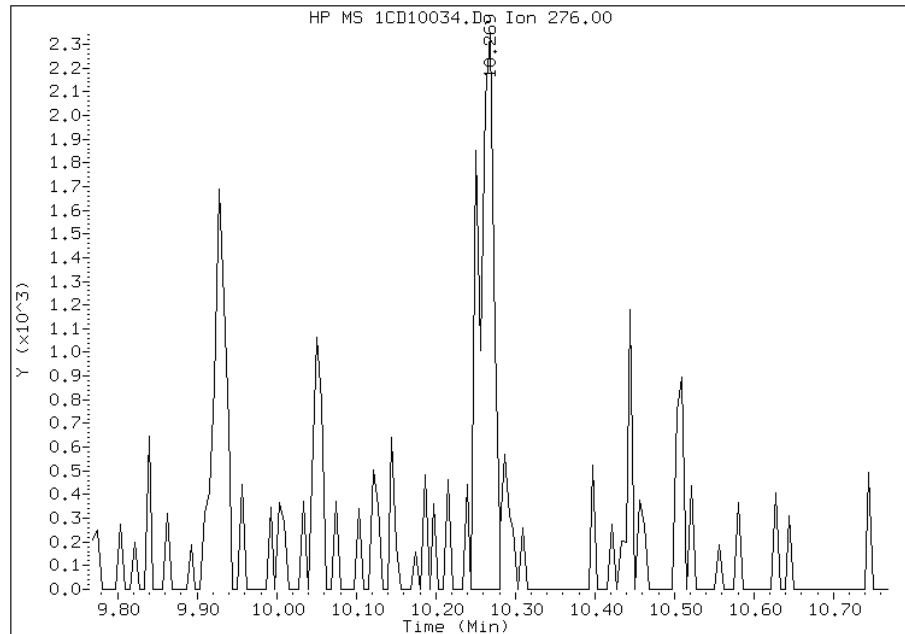
Processing Integration Results

RT: 10.27
Response: 2373
Amount: 0
Conc: 18



Manual Integration Results

RT: 10.27
Response: 3022
Amount: 0
Conc: 23



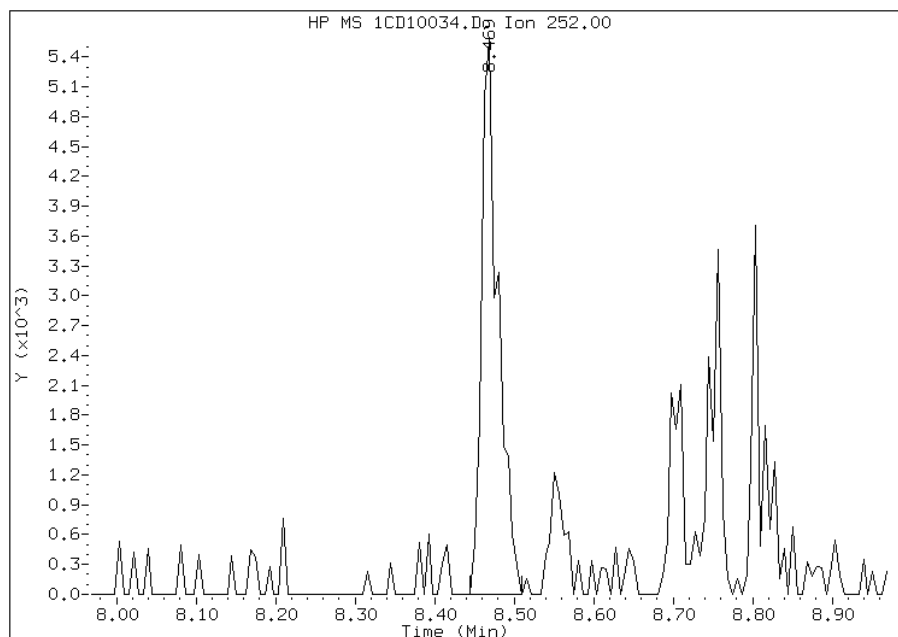
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10034.D
Inj. Date and Time: 10-APR-2013 22:47
Instrument ID: BSMC5973.i
Client ID: CV0954A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/11/2013

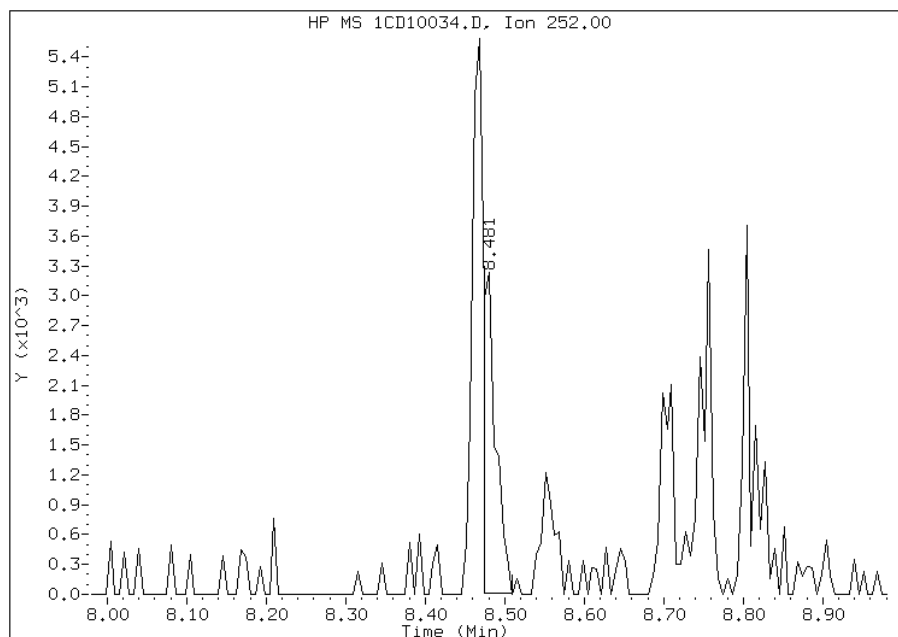
Processing Integration Results

RT: 8.47
Response: 8057
Amount: 1
Conc: 57



Manual Integration Results

RT: 8.48
Response: 3494
Amount: 0
Conc: 25



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:31
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0954B-CS-SP</u>	Lab Sample ID: <u>680-88980-17</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10035.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 13:55</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.06(g)</u>	Date Analyzed: <u>04/10/2013 23:05</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>37.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	64	U	64	8.0
120-12-7	Anthracene	13	U	13	6.7
56-55-3	Benzo[a]anthracene	13	U	13	6.2
50-32-8	Benzo[a]pyrene	12	J	17	8.3
205-99-2	Benzo[b]fluoranthene	19	J	20	9.8
191-24-2	Benzo[g,h,i]perylene	32	U	32	7.0
207-08-9	Benzo[k]fluoranthene	13	U	13	5.8
218-01-9	Chrysene	10	J	14	7.2
53-70-3	Dibenz(a,h)anthracene	32	U	32	6.6
206-44-0	Fluoranthene	23	J	32	6.4
86-73-7	Fluorene	32	U	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	32	U	32	11
90-12-0	1-Methylnaphthalene	64	U	64	7.0
91-57-6	2-Methylnaphthalene	64	U	64	11
91-20-3	Naphthalene	10	J	64	7.0
85-01-8	Phenanthrene	11	J	13	6.2
129-00-0	Pyrene	24	J	32	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10035.D
Lab Smp Id: 680-88980-A-17-A Client Smp ID: CV0954B-CS-SP
Inj Date : 10-APR-2013 23:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-17-a
Misc Info : 680-88980-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	37.736	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		389689	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		279746	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		519661	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		59532	7.74391	825.8426
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		574692	40.0000	(H)
* 23 Perylene-d12	264		8.803	8.809	(1.000)		555359	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		936	0.09352	9.9728(Q)
11 Phenanthrene	178		5.727	5.727	(1.003)		1618	0.10690	11.4007(Q)
15 Fluoranthene	202		6.562	6.557	(1.149)		3604	0.21562	22.9945
16 Pyrene	202		6.727	6.727	(0.880)		3620	0.22740	24.2503
19 Chrysene	228		7.662	7.668	(1.002)		1545	0.09434	10.0612
20 Benzo(b)fluoranthene	252		8.468	8.474	(0.962)		2791	0.17777	18.9576
22 Benzo(a)pyrene	252		8.751	8.756	(0.994)		1667	0.11278	12.0268

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 1CD10035.D

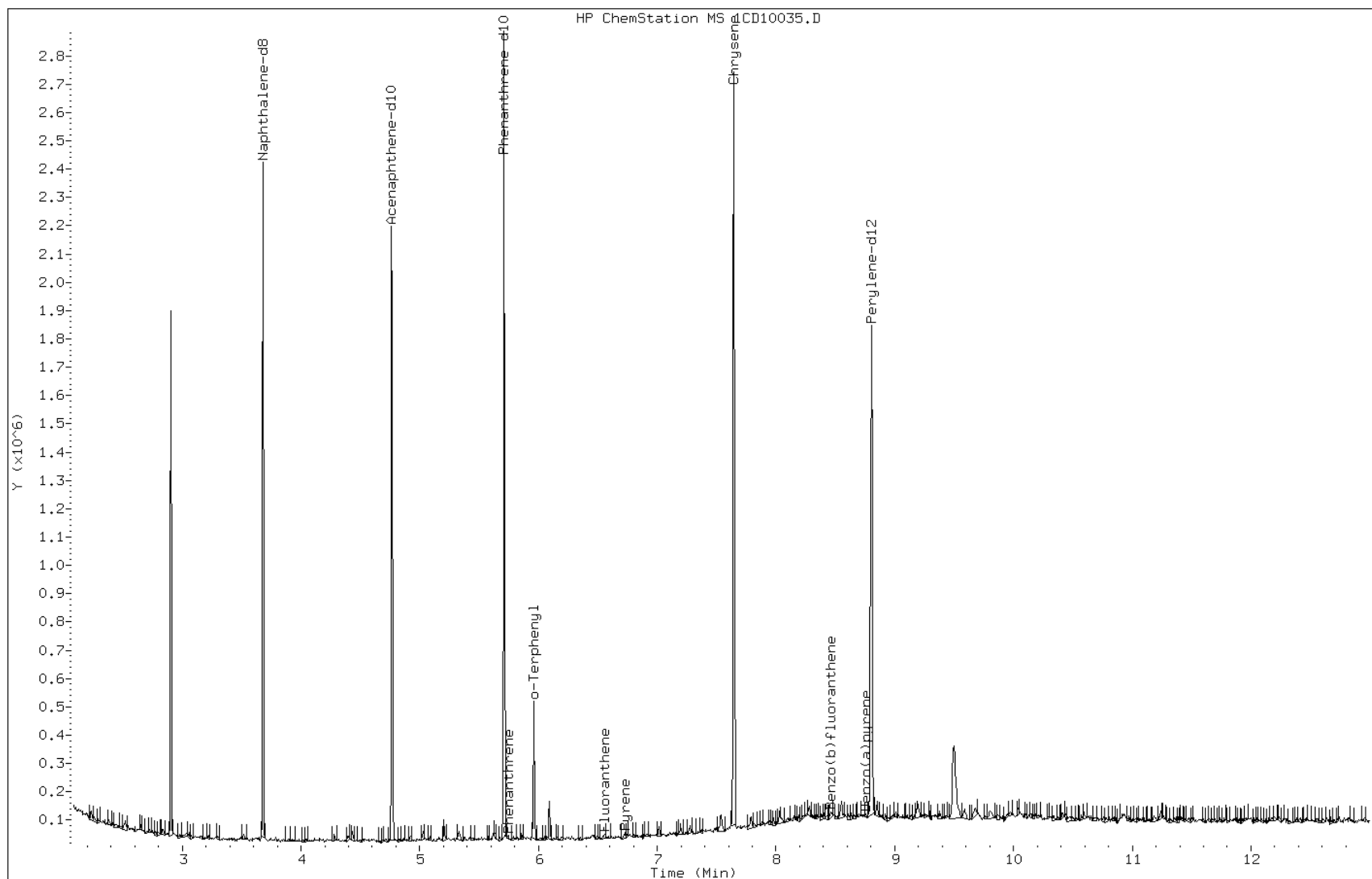
Date: 10-APR-2013 23:05

Client ID: CV0954B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-88980-a-17-a

Operator: SCC



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

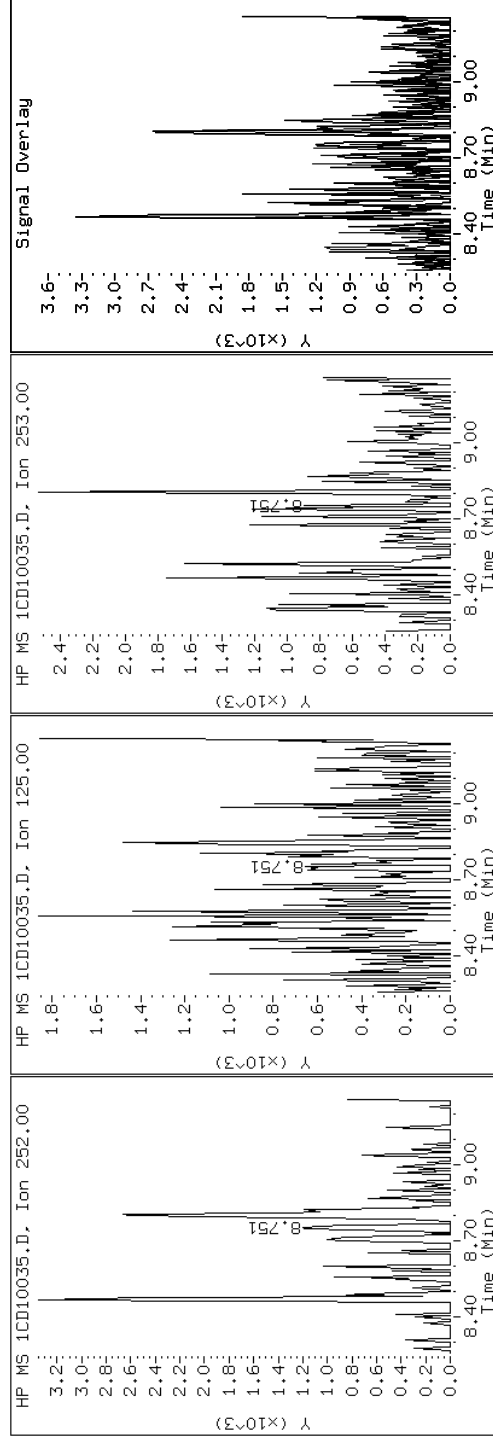
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

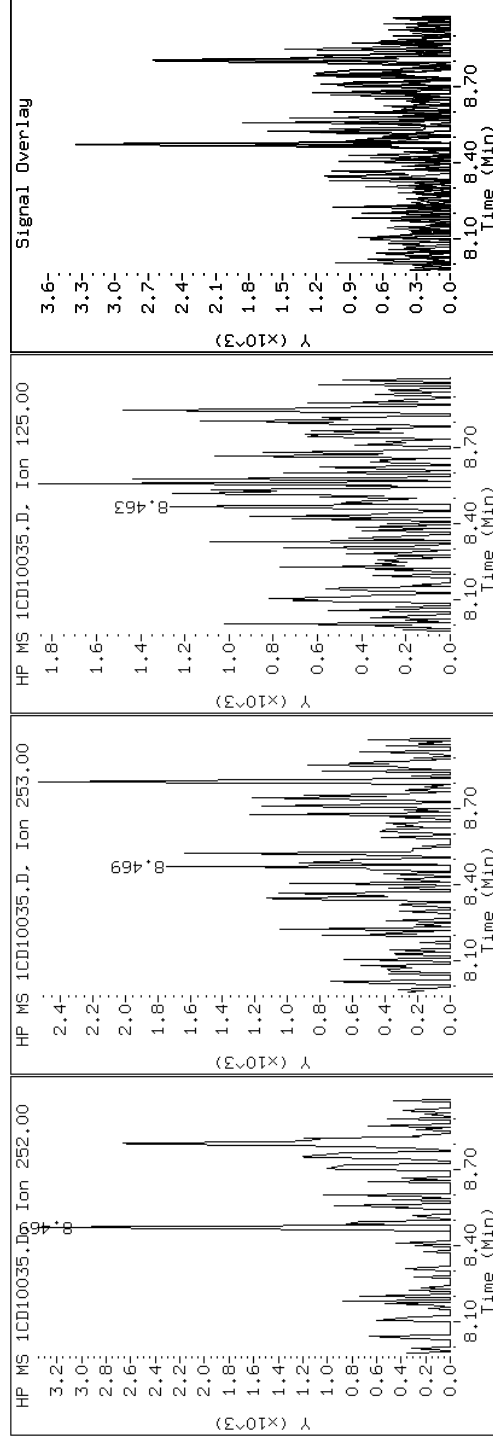
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

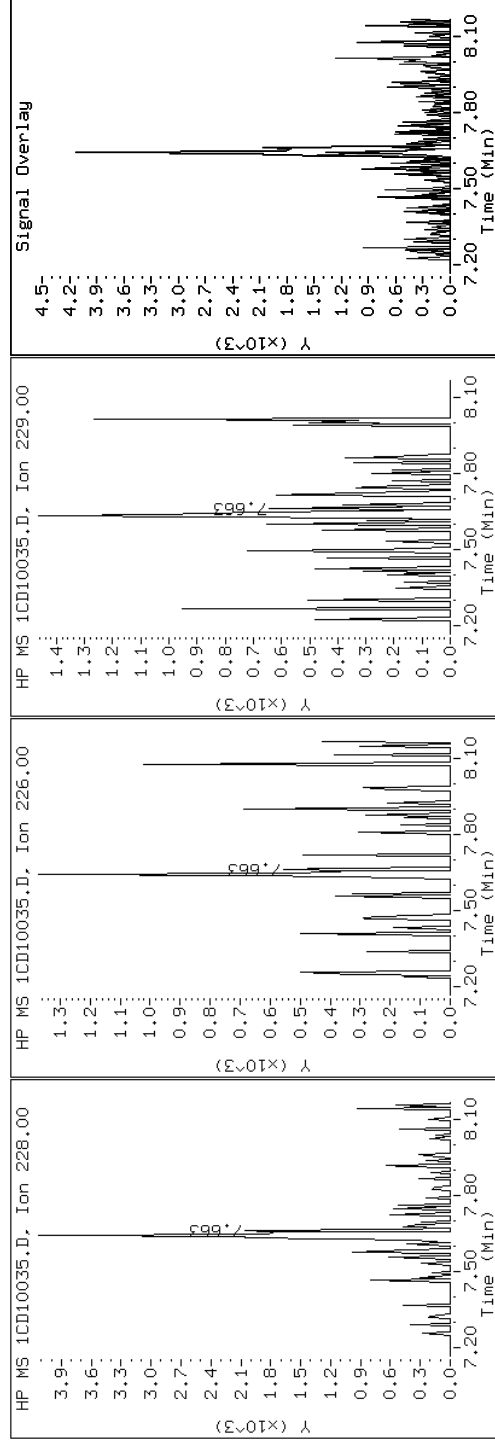
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

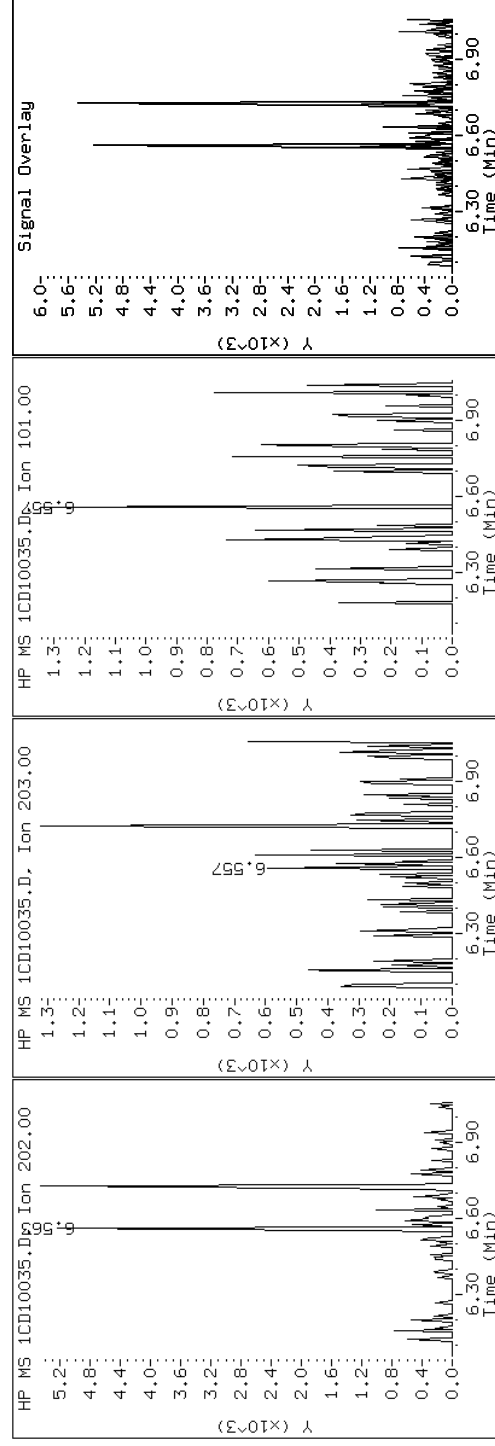
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

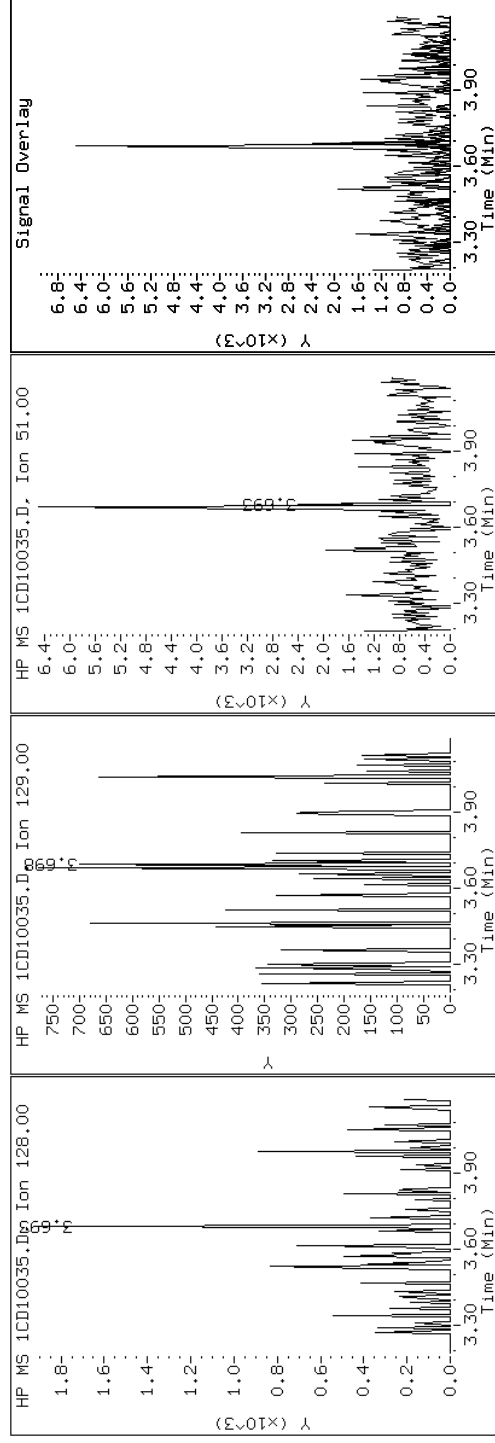
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

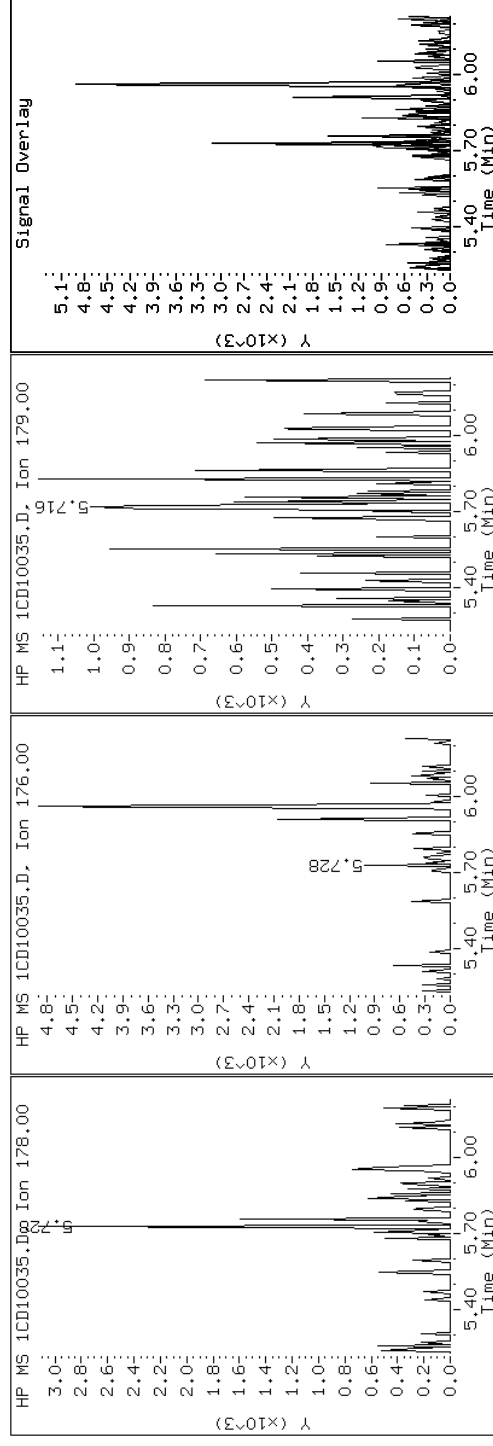
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD10035.D

Date: 10-APR-2013 23:05

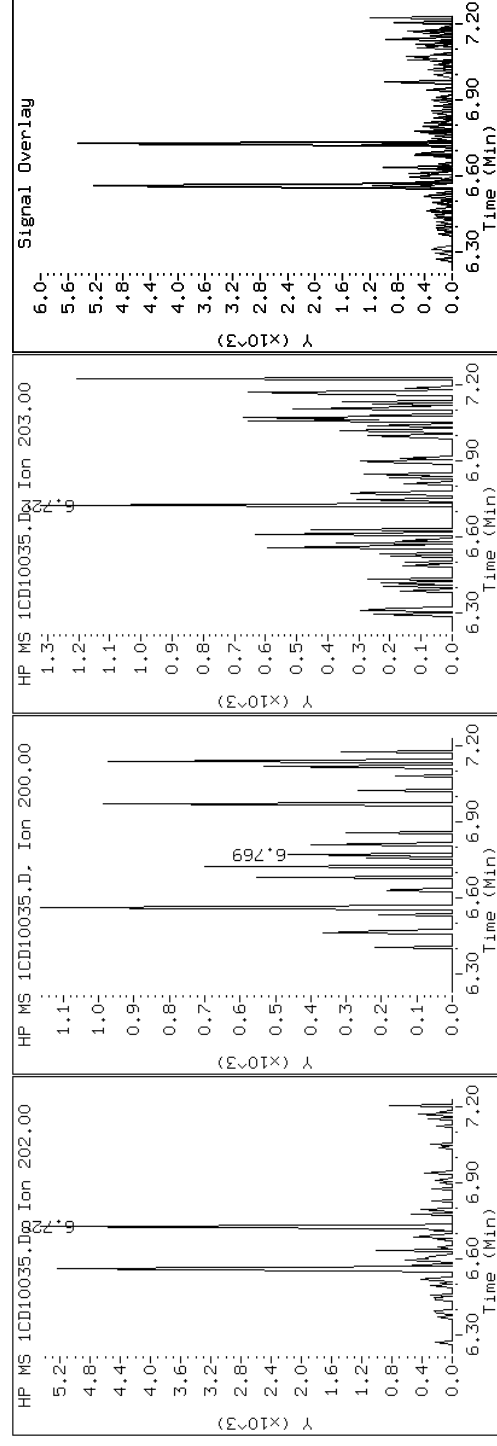
Client ID: CV0954B-CS-SP

Sample Info: 680-88980-a-17-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0098A-CS</u>	Lab Sample ID: <u>680-88980-18</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10036.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.17(g)</u>	Date Analyzed: <u>04/10/2013 23:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>4</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>19.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	67	J	200	25
120-12-7	Anthracene	130		41	21
56-55-3	Benzo[a]anthracene	570		39	19
50-32-8	Benzo[a]pyrene	310		51	26
205-99-2	Benzo[b]fluoranthene	910		60	30
191-24-2	Benzo[g,h,i]perylene	420		98	22
207-08-9	Benzo[k]fluoranthene	430		39	18
218-01-9	Chrysene	660		44	22
53-70-3	Dibenz(a,h)anthracene	120		98	20
206-44-0	Fluoranthene	710		98	20
86-73-7	Fluorene	29	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	220		98	35
90-12-0	1-Methylnaphthalene	37	J	200	22
91-57-6	2-Methylnaphthalene	84	J	200	35
91-20-3	Naphthalene	59	J	200	22
85-01-8	Phenanthrene	130		39	19
129-00-0	Pyrene	1500		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10036.D
Lab Smp Id: 680-88980-A-18-A Client Smp ID: CV0098A-CS
Inj Date : 10-APR-2013 23:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-18-a
Misc Info : 680-88980-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 36
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	19.469	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		407544	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		284156	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		539915	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		11348	2.01307	659.1274
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		607250	40.0000	
* 23 Perylene-d12	264		8.803	8.809	(1.000)		542098	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		1873	0.17893	58.5866(Q)
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		1825	0.25612	83.8605
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		722	0.11261	36.8709(Q)
5 Acenaphthylene	152		4.680	4.680	(0.981)		2424	0.20611	67.4865
9 Fluorene	166		5.092	5.104	(1.068)		873	0.08990	29.4366
11 Phenanthrene	178		5.727	5.727	(1.003)		6105	0.38824	127.1191
12 Anthracene	178		5.762	5.763	(1.009)		6494	0.40739	133.3906
13 Carbazole	167		5.868	5.868	(1.028)		1744	0.12770	41.8126

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.557	6.557	(1.148)	37598	2.16502	708.8819
16 Pyrene	202	6.727	6.727	(0.880)	76405	4.54216	1487.2154
17 Benzo(a)anthracene	228	7.633	7.639	(0.998)	28330	1.74574	571.5993
19 Chrysene	228	7.662	7.668	(1.002)	34969	2.02087	661.6813
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.962)	42715	2.78717	912.5890
21 Benzo(k)fluoranthene	252	8.486	8.498	(0.964)	19310	1.30274	426.5498(Q)
22 Benzo(a)pyrene	252	8.751	8.756	(0.994)	13802	0.95657	313.2039
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.939	(1.128)	9207	0.67182	219.9715(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.950	(1.129)	4492	0.35483	116.1788
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	18088	1.29319	423.4236

QC Flag Legend

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

Data File: 1CD10036.D

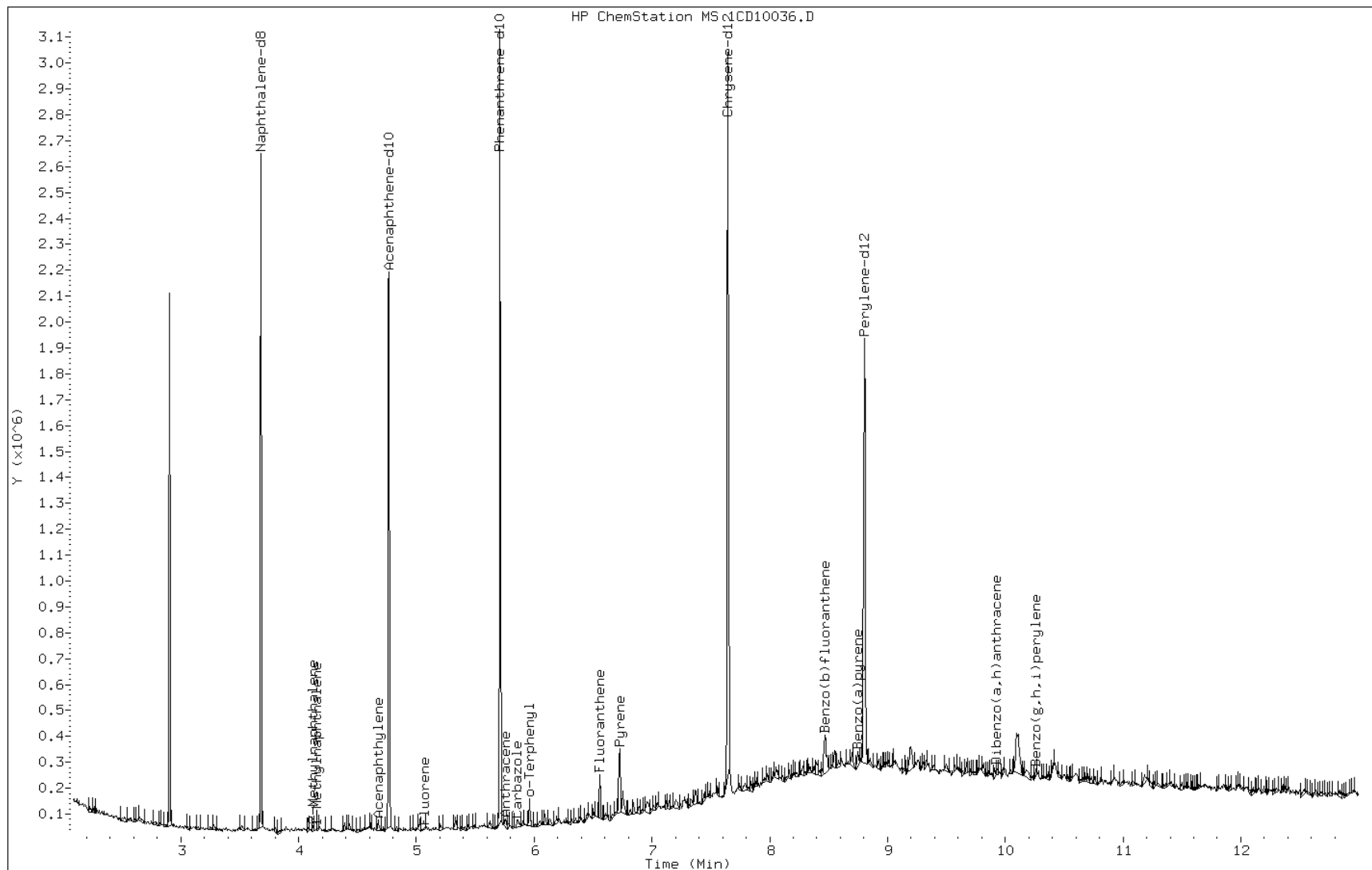
Date: 10-APR-2013 23:24

Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

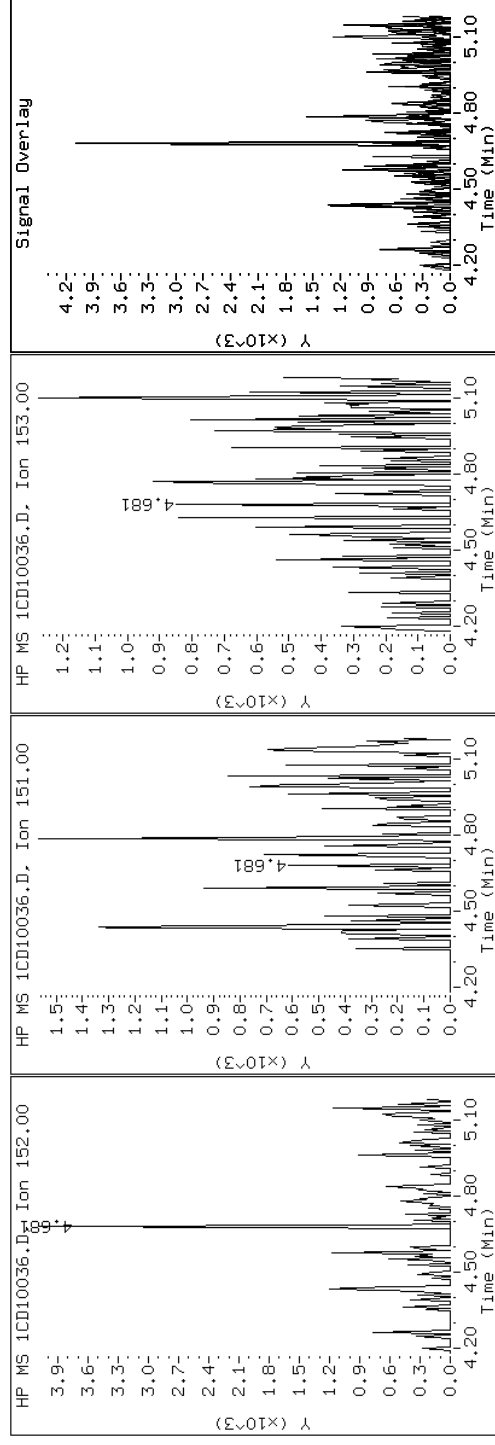
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

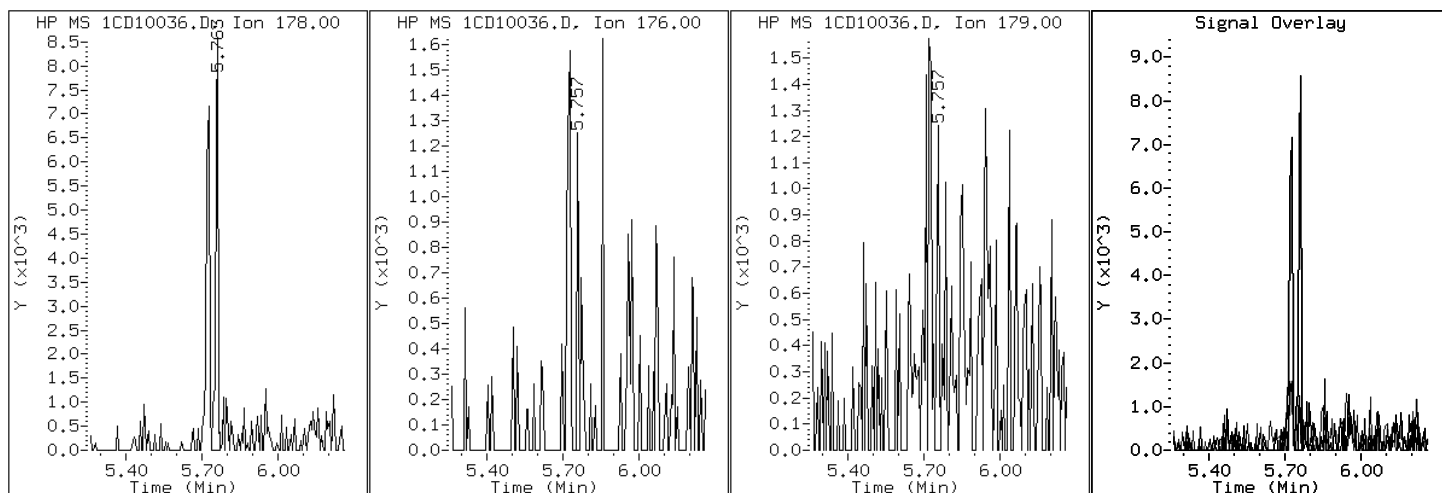
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

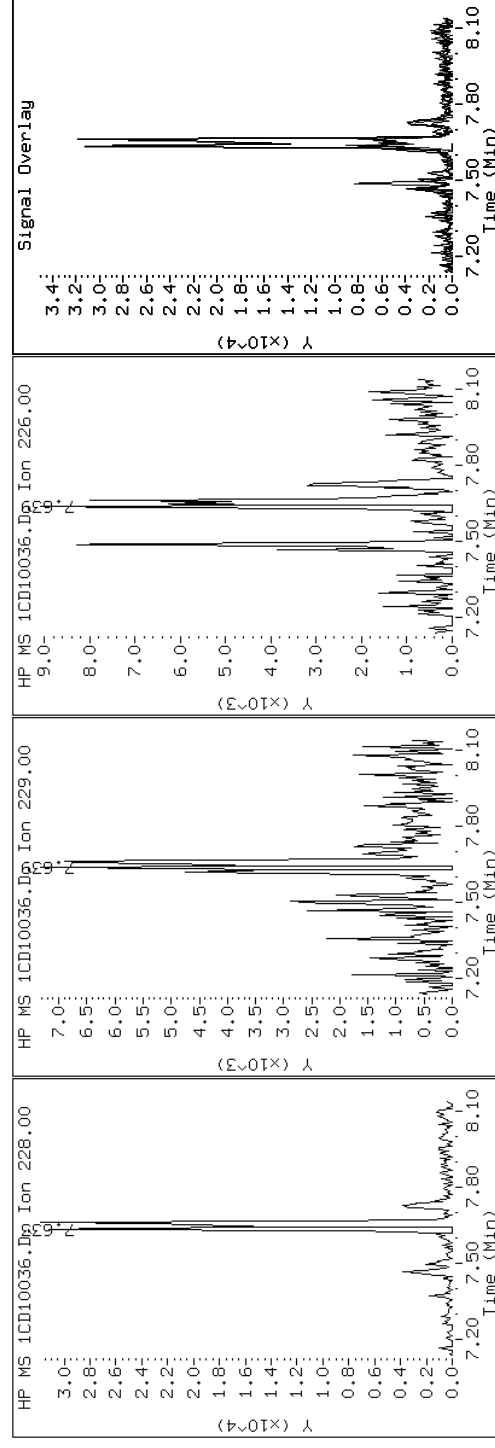
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

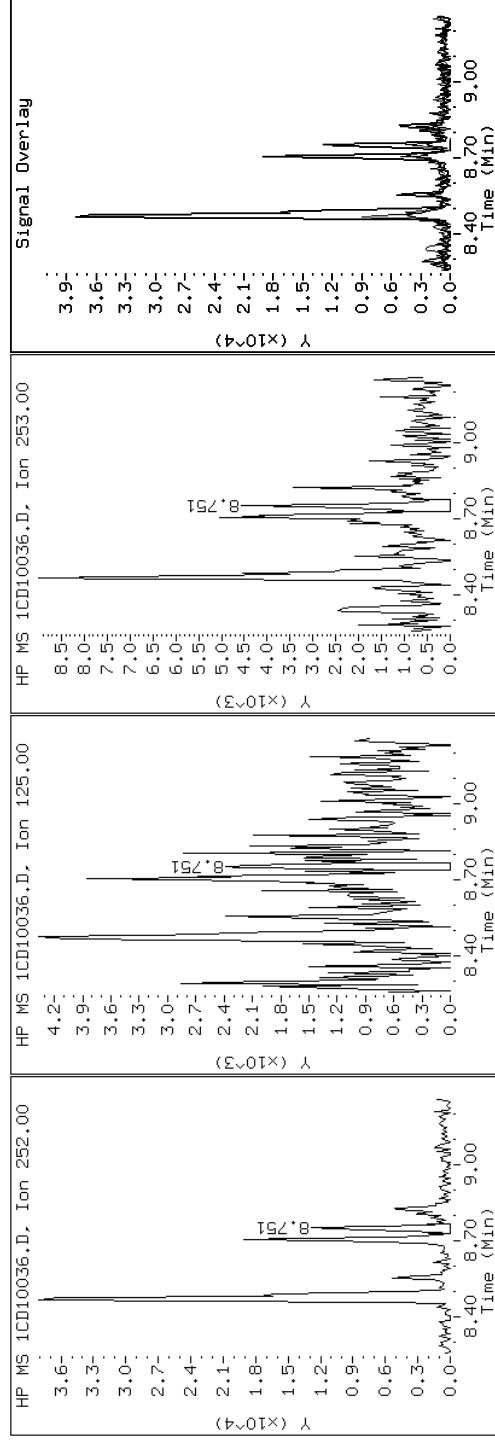
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

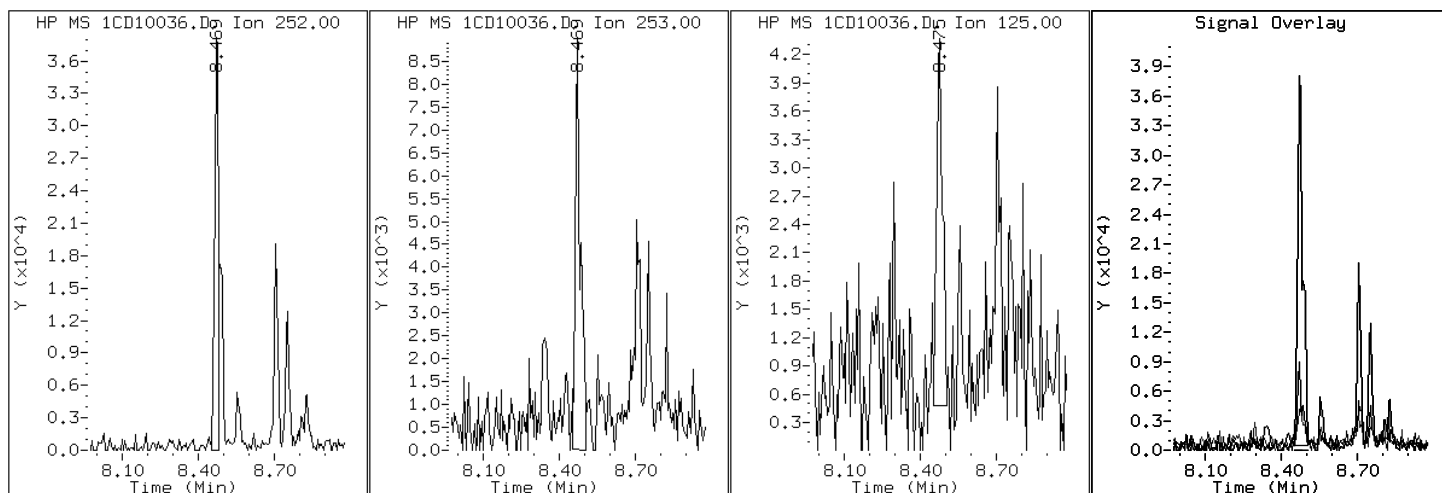
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

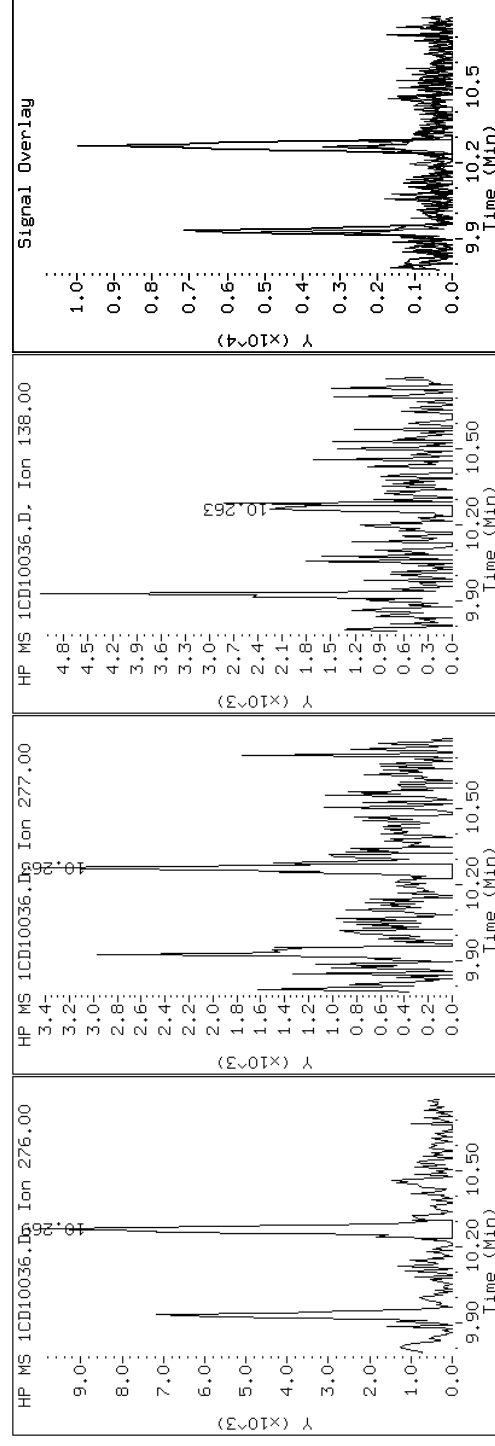
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

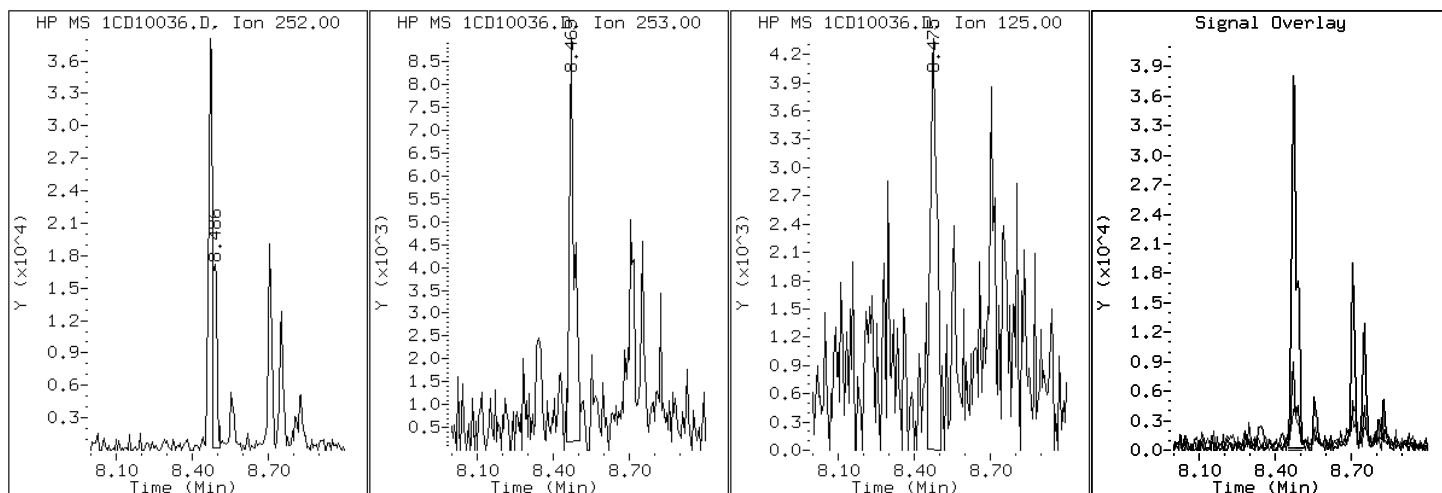
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

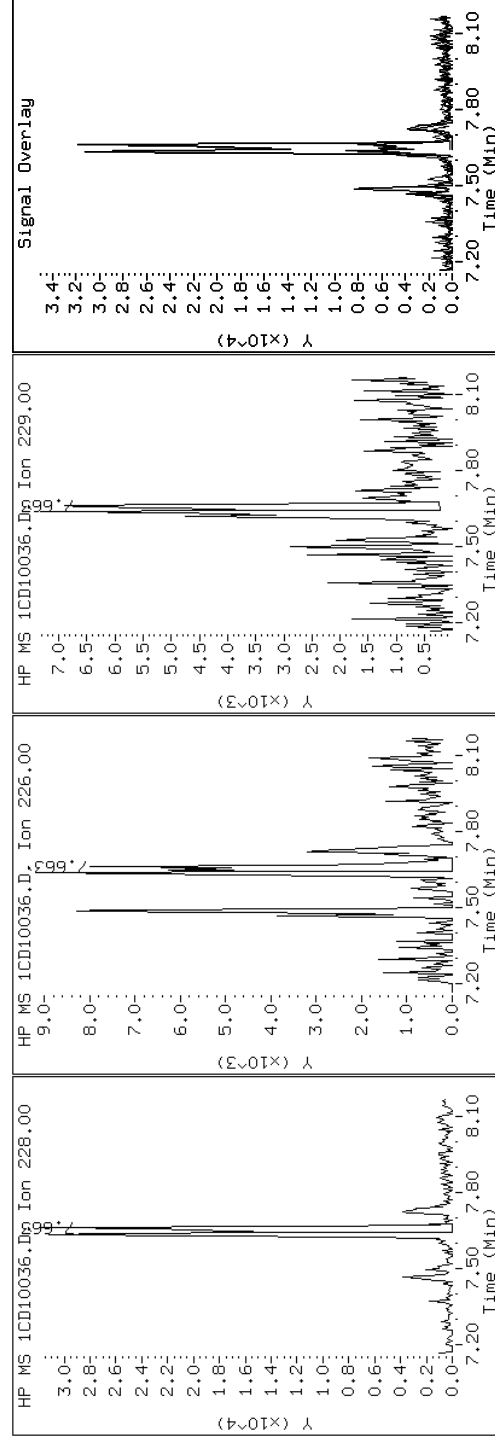
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

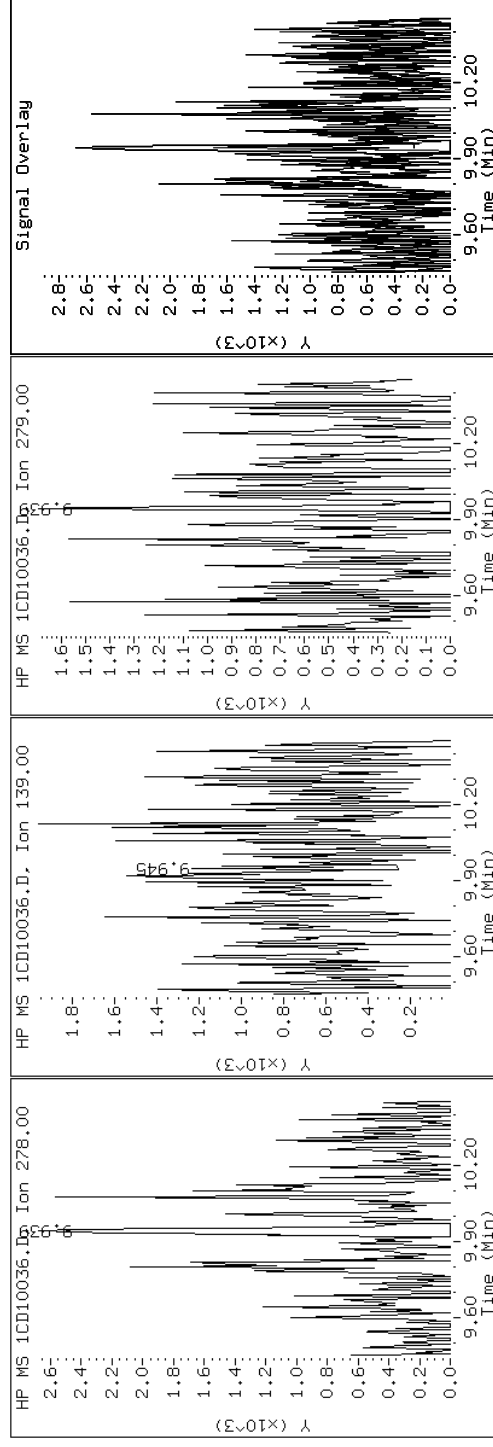
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

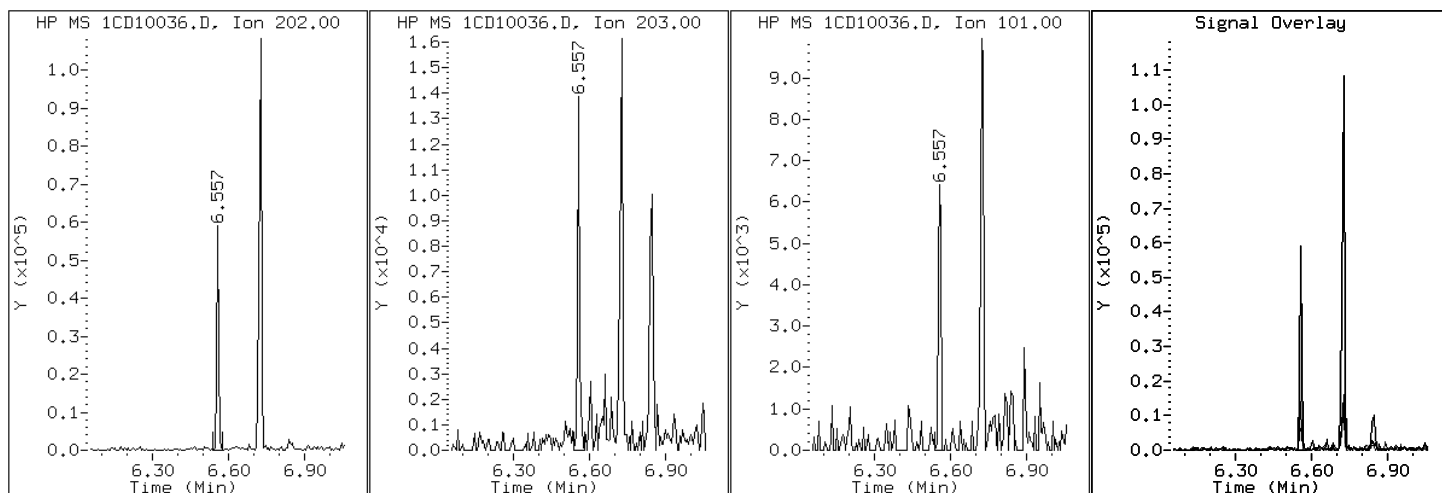
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

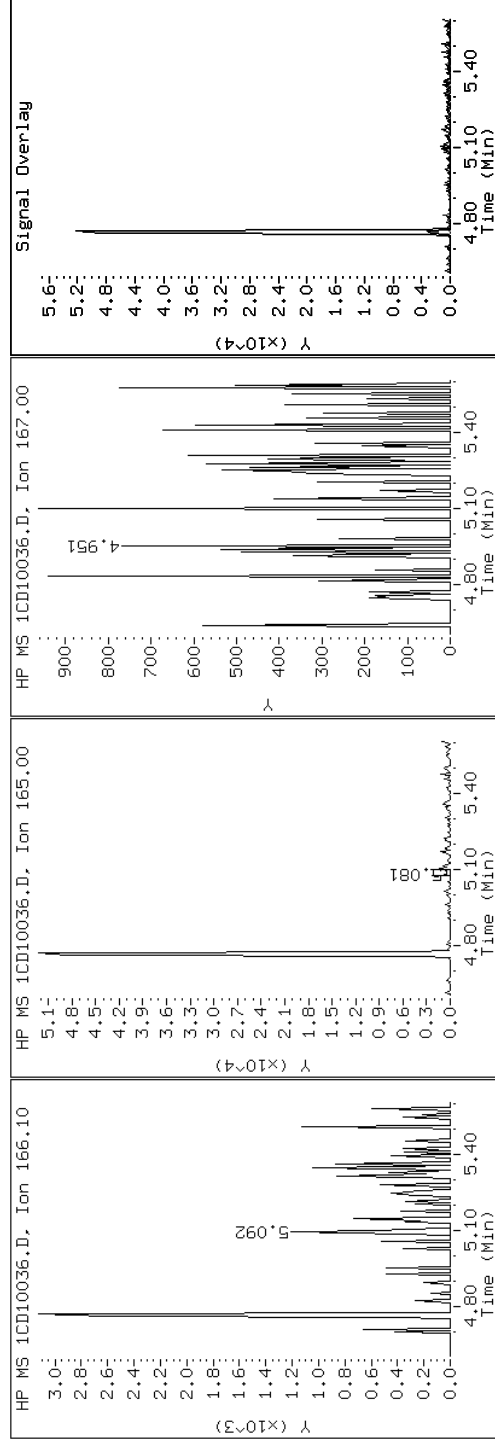
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

9 Fluorene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

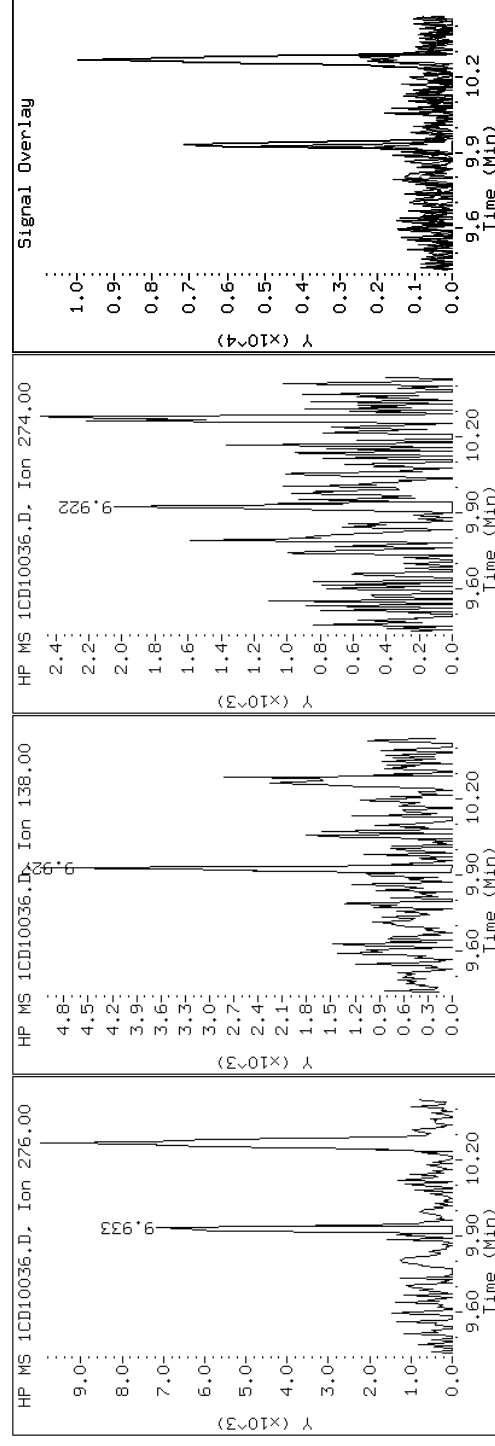
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

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



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

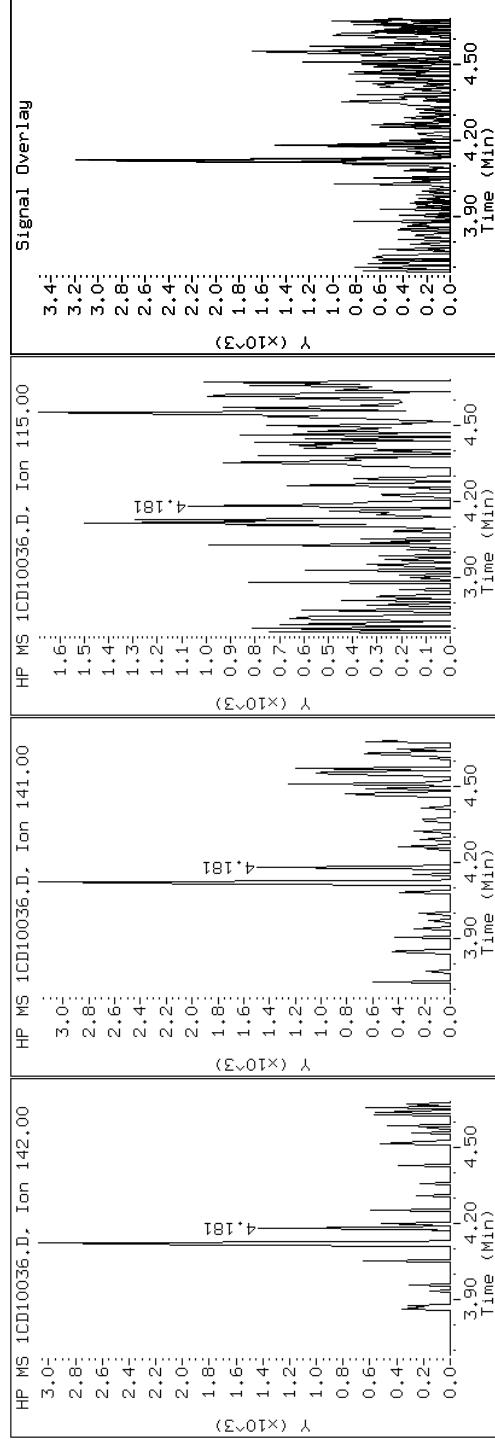
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

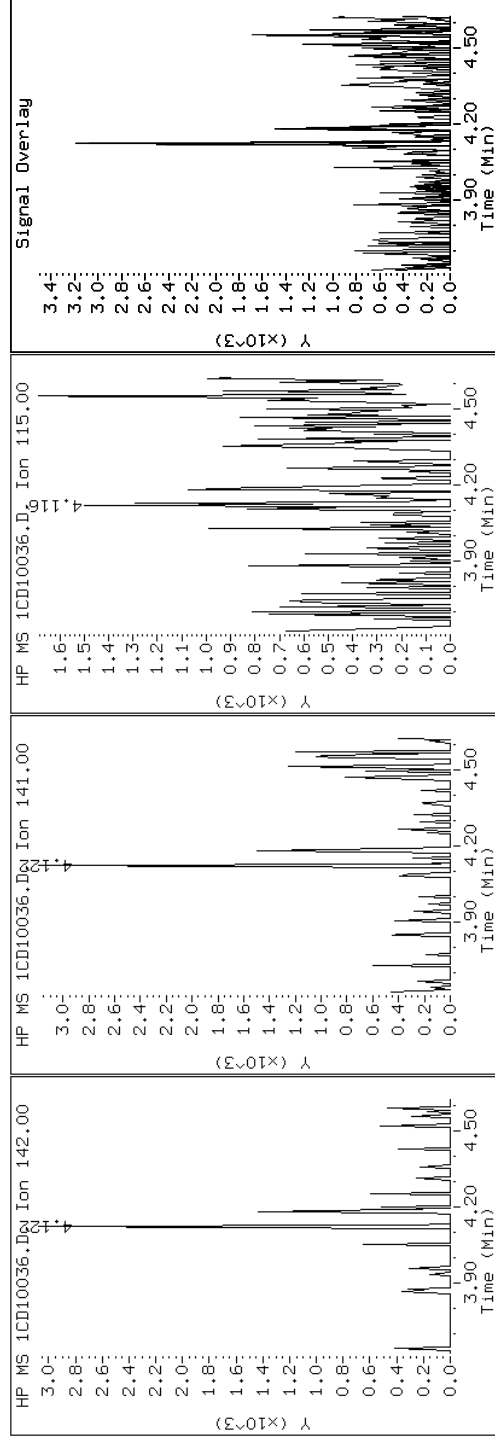
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

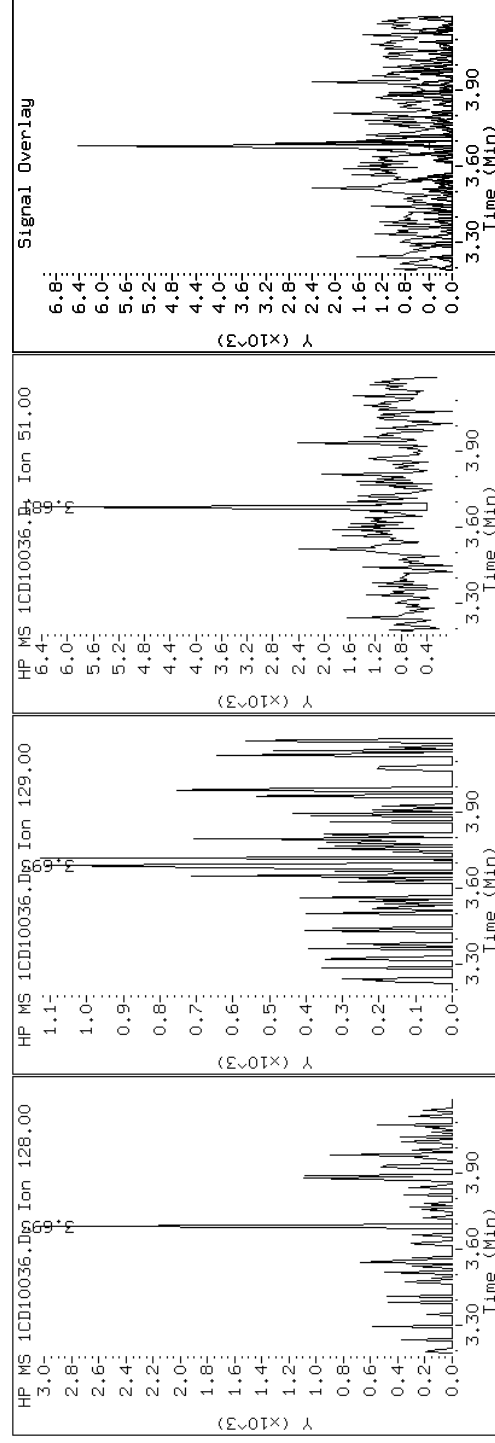
Client ID: CV0098A-CS

Sample Info: 680-88980-a-18-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

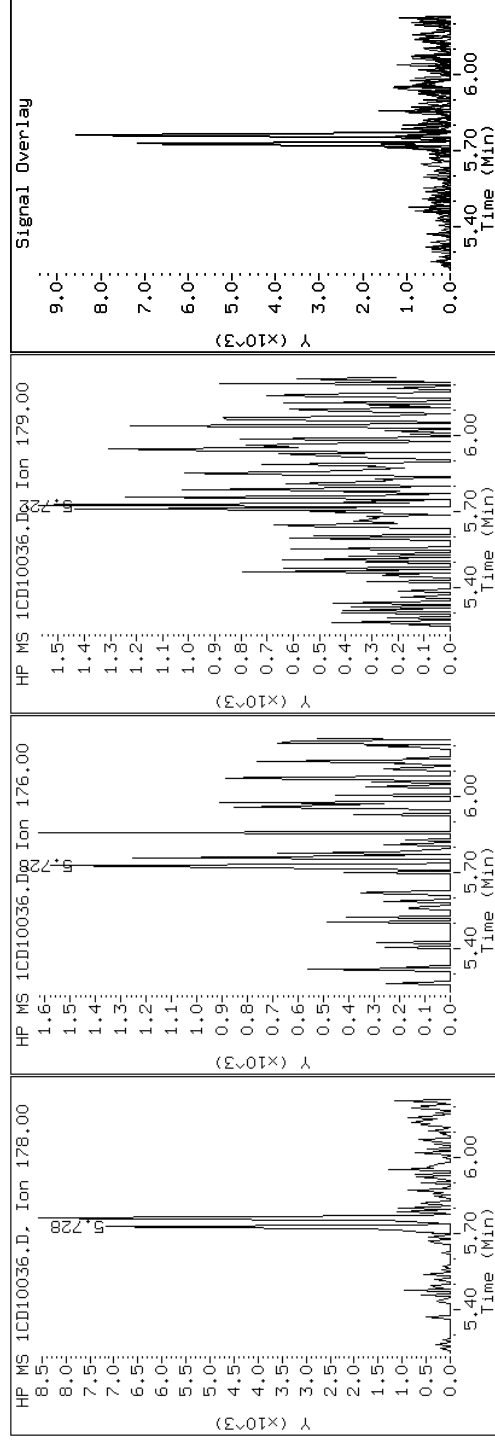
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10036.D

Date: 10-APR-2013 23:24

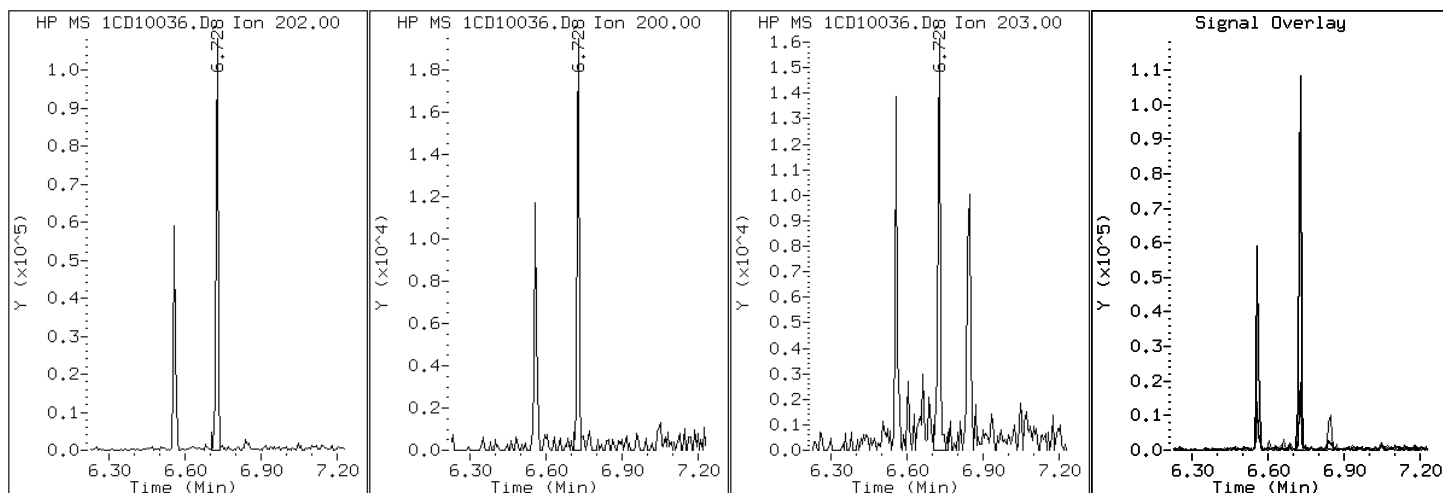
Client ID: CV0098A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-18-a

Operator: SCC

16 Pyrene

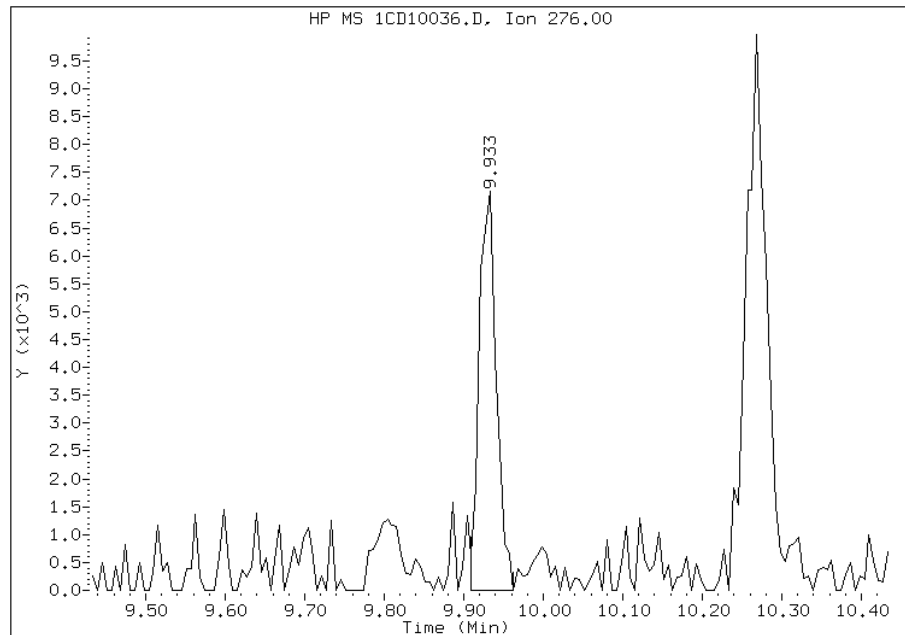


Manual Integration Report

Data File: 1CD10036.D
Inj. Date and Time: 10-APR-2013 23:24
Instrument ID: BSMC5973.i
Client ID: CV0098A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

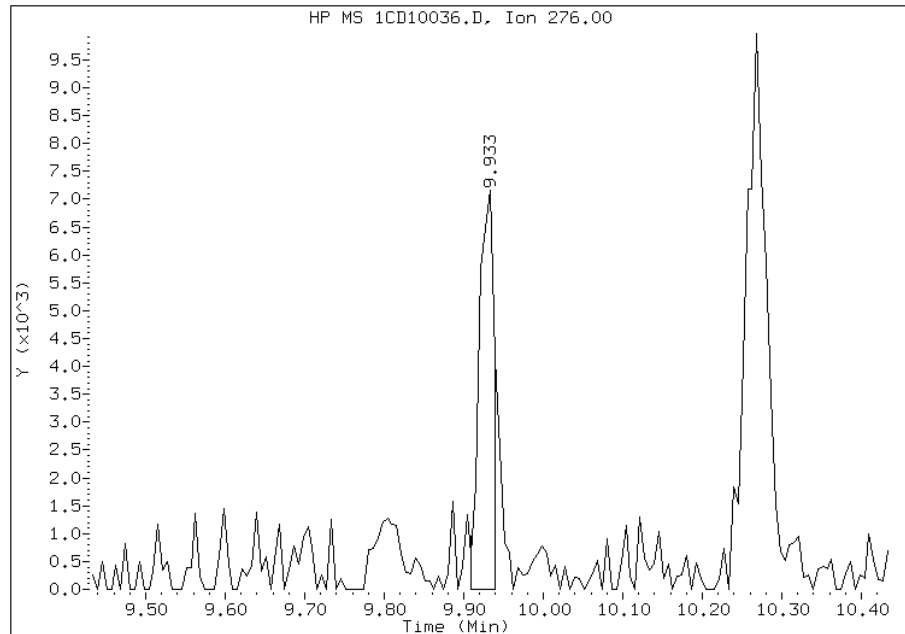
Processing Integration Results

RT: 9.93
Response: 10620
Amount: 1
Conc: 254



Manual Integration Results

RT: 9.93
Response: 9207
Amount: 1
Conc: 220



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0135A-CS</u>	Lab Sample ID: <u>680-88980-19</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10037.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 12:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.05(g)</u>	Date Analyzed: <u>04/10/2013 23:42</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>28.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	7.0	J	55	6.9
120-12-7	Anthracene	7.4	J	12	5.8
56-55-3	Benzo[a]anthracene	57		11	5.4
50-32-8	Benzo[a]pyrene	29		14	7.2
205-99-2	Benzo[b]fluoranthene	39		17	8.5
191-24-2	Benzo[g,h,i]perylene	24	J	28	6.1
207-08-9	Benzo[k]fluoranthene	11		11	5.0
218-01-9	Chrysene	35		12	6.2
53-70-3	Dibenz(a,h)anthracene	8.6	J	28	5.7
206-44-0	Fluoranthene	51		28	5.5
86-73-7	Fluorene	28	U	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	21	J	28	9.8
90-12-0	1-Methylnaphthalene	55	U	55	6.1
91-57-6	2-Methylnaphthalene	11	J	55	9.8
91-20-3	Naphthalene	12	J	55	6.1
85-01-8	Phenanthrene	33		11	5.4
129-00-0	Pyrene	53		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10037.D
Lab Smp Id: 680-88980-A-19-A Client Smp ID: CV0135A-CS
Inj Date : 10-APR-2013 23:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88980-a-19-a
Misc Info : 680-88980-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	28.103	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		439820	40.0000	
* 6 Acenaphthene-d10	164		4.769	4.768	(1.000)		303785	40.0000	
* 10 Phenanthrene-d10	188		5.710	5.710	(1.000)		603428	40.0000	
\$ 14 o-Terphenyl	230		5.963	5.963	(1.044)		37625	4.54541	420.0767
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		620393	40.0000	
* 23 Perylene-d12	264		8.804	8.809	(1.000)		590048	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		1526	0.13508	12.4841(Q)
3 2-Methylnaphthalene	142		4.122	4.121	(1.120)		949	0.12341	11.4052
5 Acenaphthylene	152		4.680	4.680	(0.981)		955	0.07596	7.0197
11 Phenanthrene	178		5.727	5.727	(1.003)		6298	0.35836	33.1186
12 Anthracene	178		5.757	5.763	(1.008)		1427	0.08010	7.4025
15 Fluoranthene	202		6.557	6.557	(1.148)		10772	0.55500	51.2919
16 Pyrene	202		6.727	6.727	(0.880)		9772	0.56862	52.5509
17 Benzo(a)anthracene	228		7.639	7.639	(0.999)		8576	0.61271	56.6255

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
19 Chrysene	228	7.662	7.668	(1.002)	6618		0.37435	34.5968
20 Benzo(b)fluoranthene	252	8.462	8.474	(0.961)	7085		0.42473	39.2526
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.965)	1924		0.11925	11.0211(Q)
22 Benzo(a)pyrene	252	8.751	8.756	(0.994)	4928		0.31379	28.9994(M)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.128)	3469		0.23256	21.4925(M)
25 Dibenzo(a,h)anthracene	278	9.945	9.950	(1.130)	1285		0.09325	8.6183(M)
26 Benzo(g,h,i)perylene	276	10.262	10.280	(1.166)	3916		0.25722	23.7717(M)

QC Flag Legend

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

Data File: 1CD10037.D

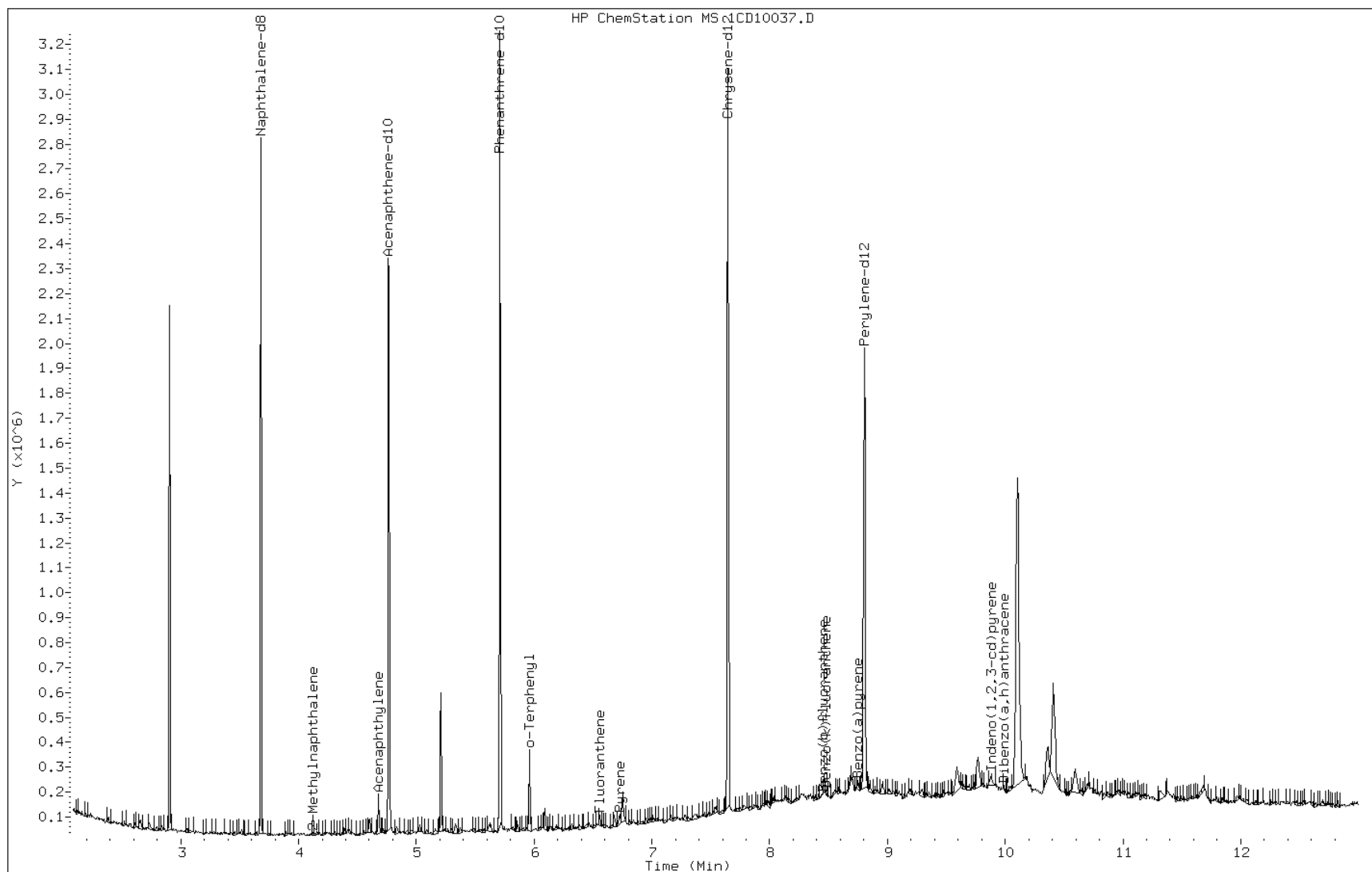
Date: 10-APR-2013 23:42

Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

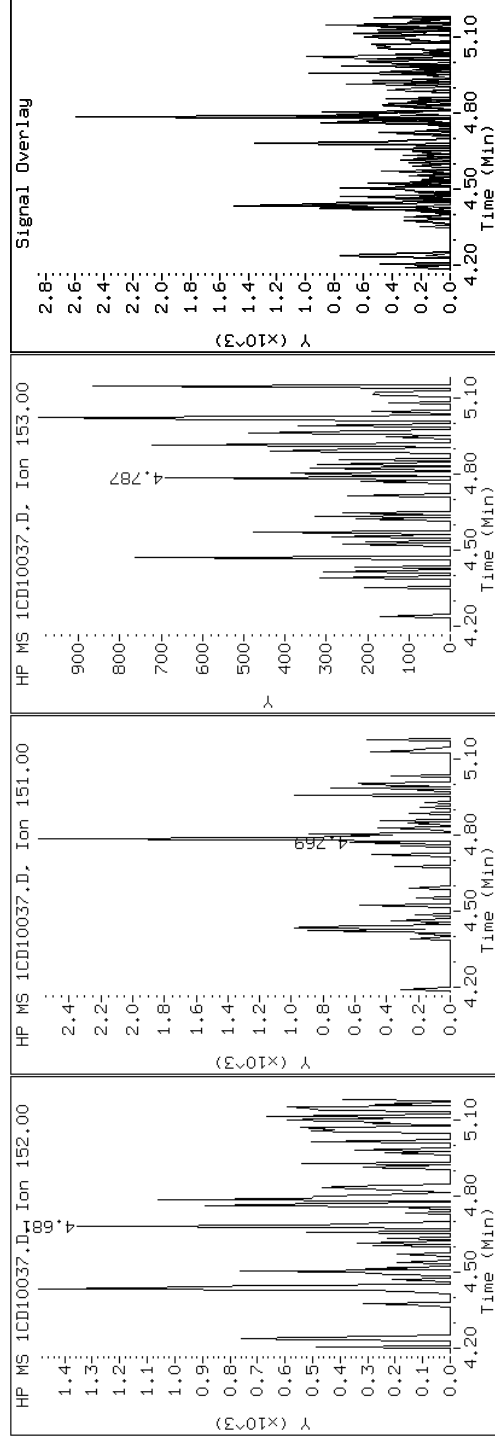
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

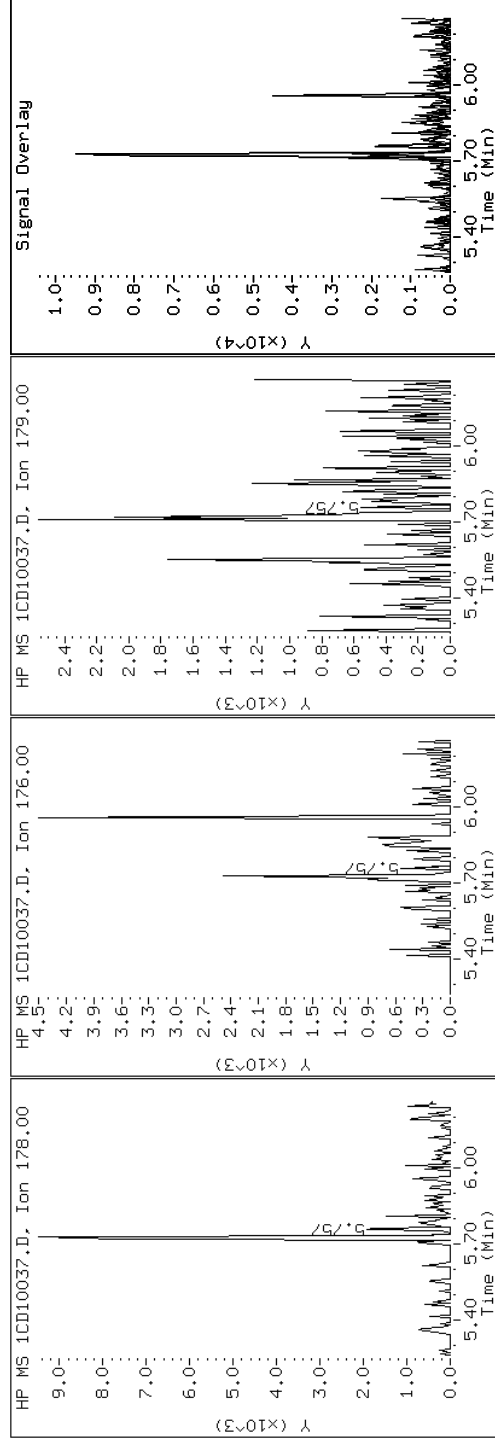
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

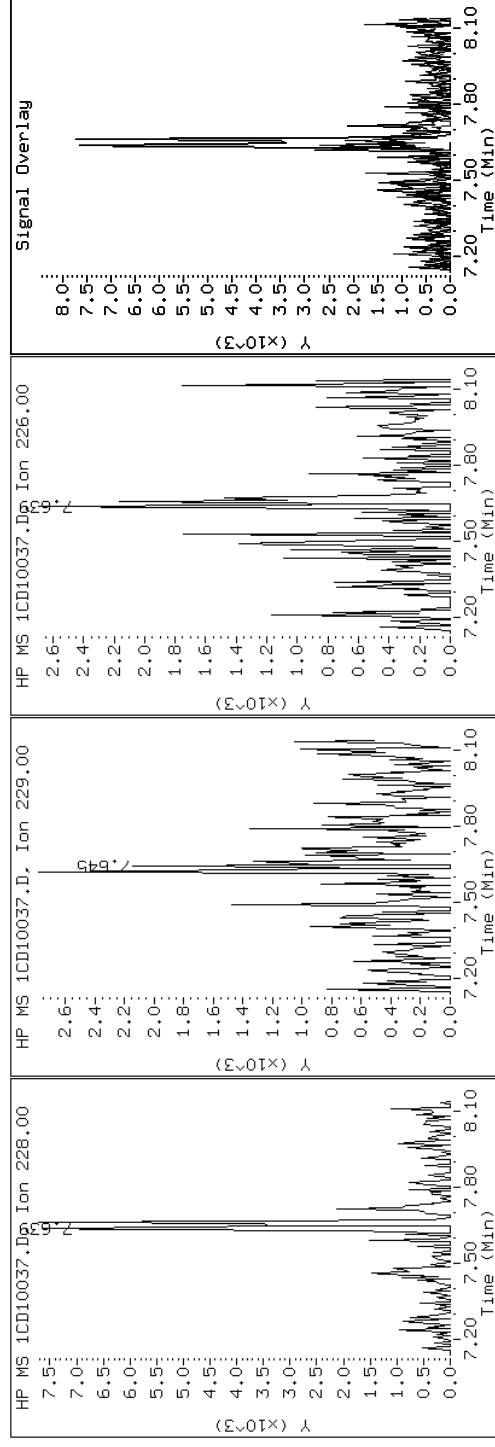
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

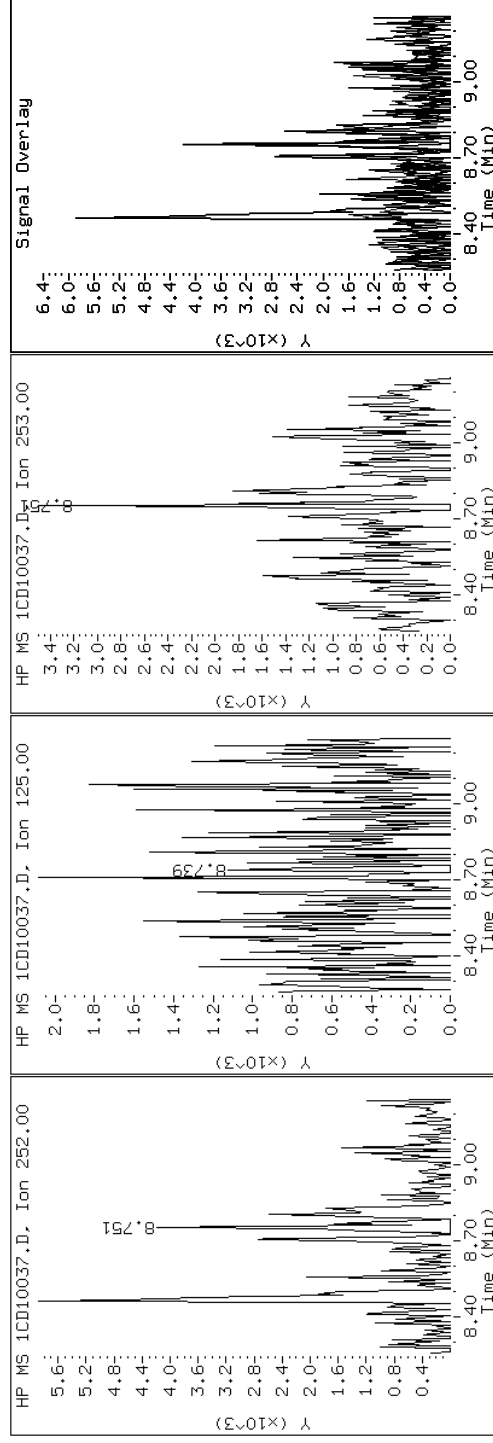
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

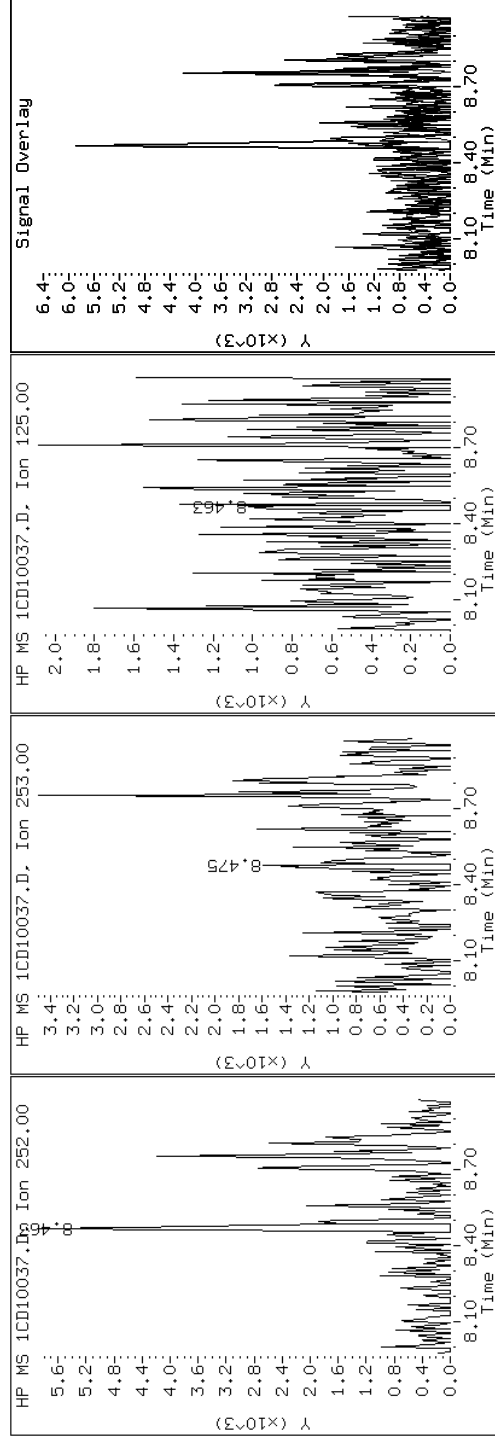
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

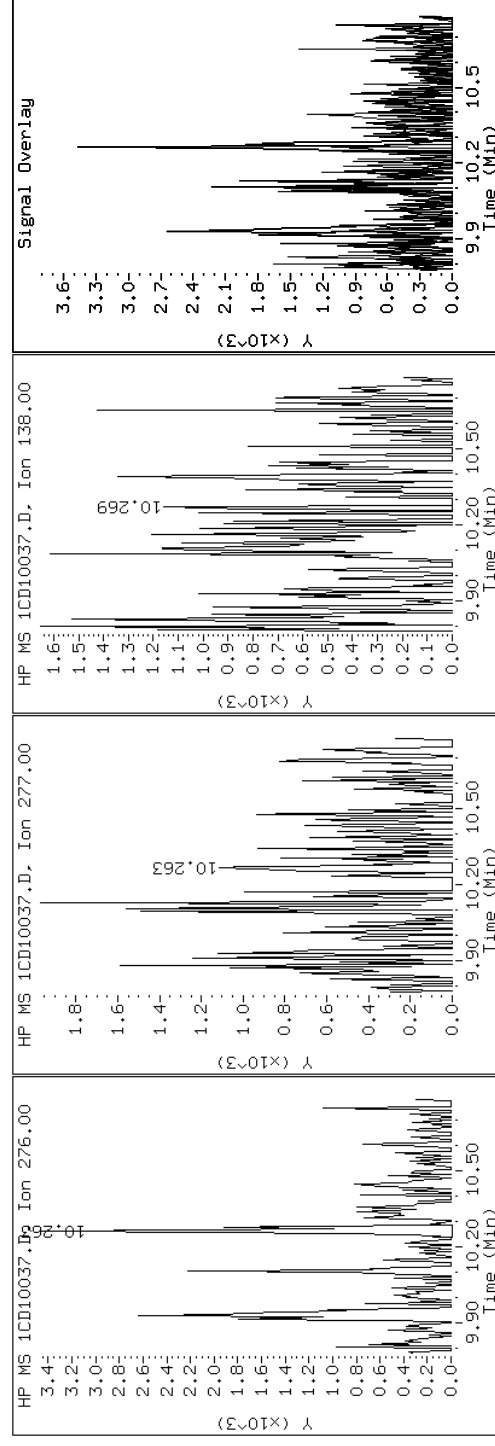
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

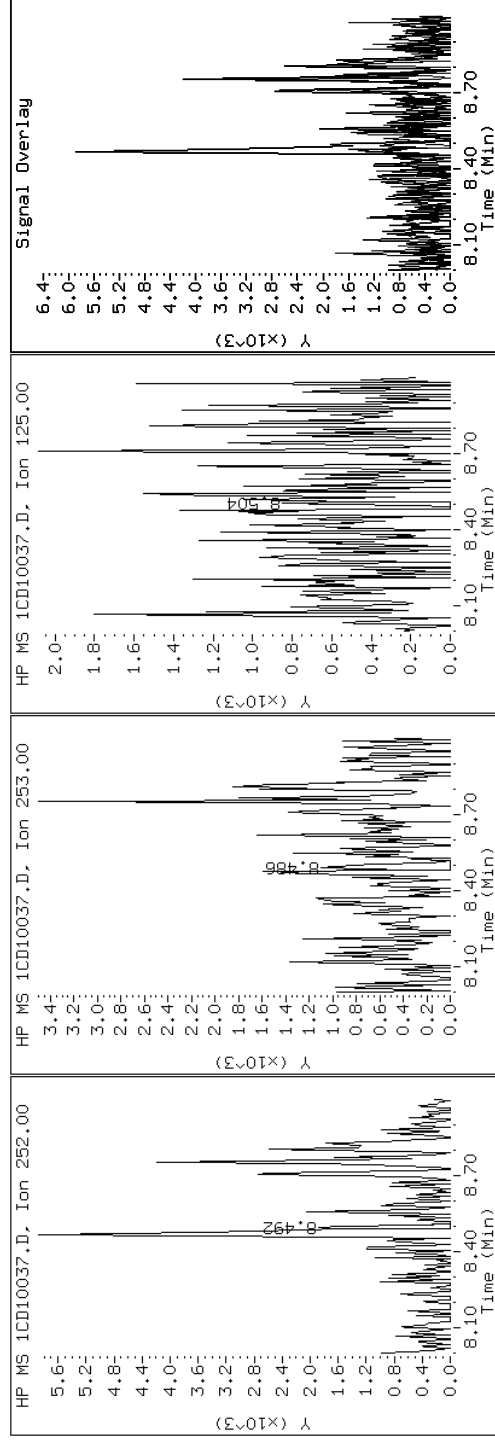
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

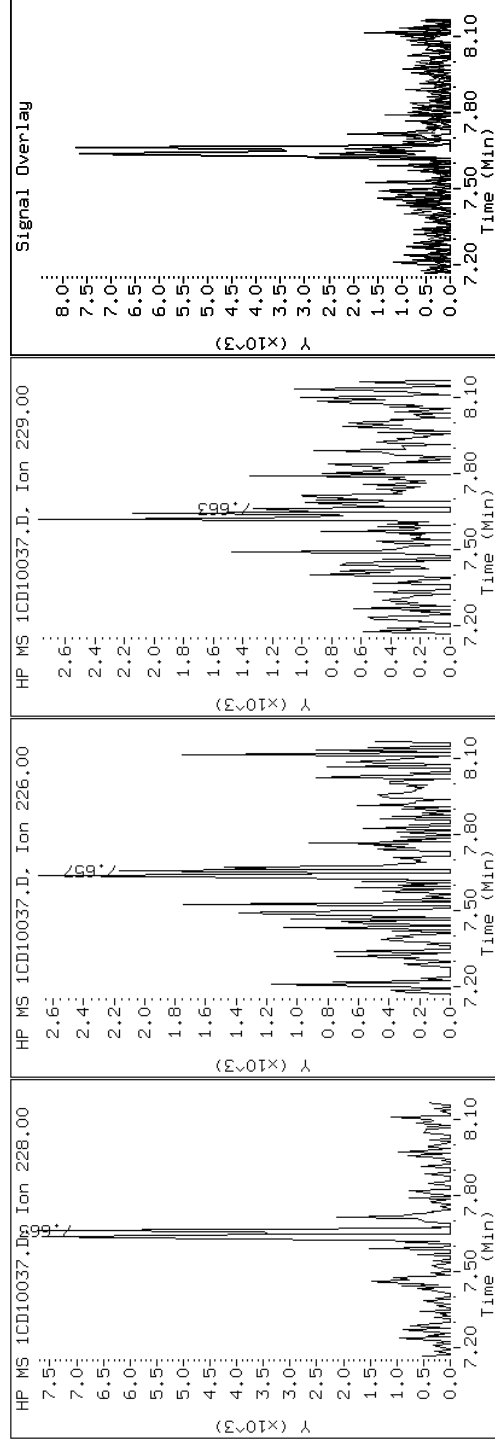
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

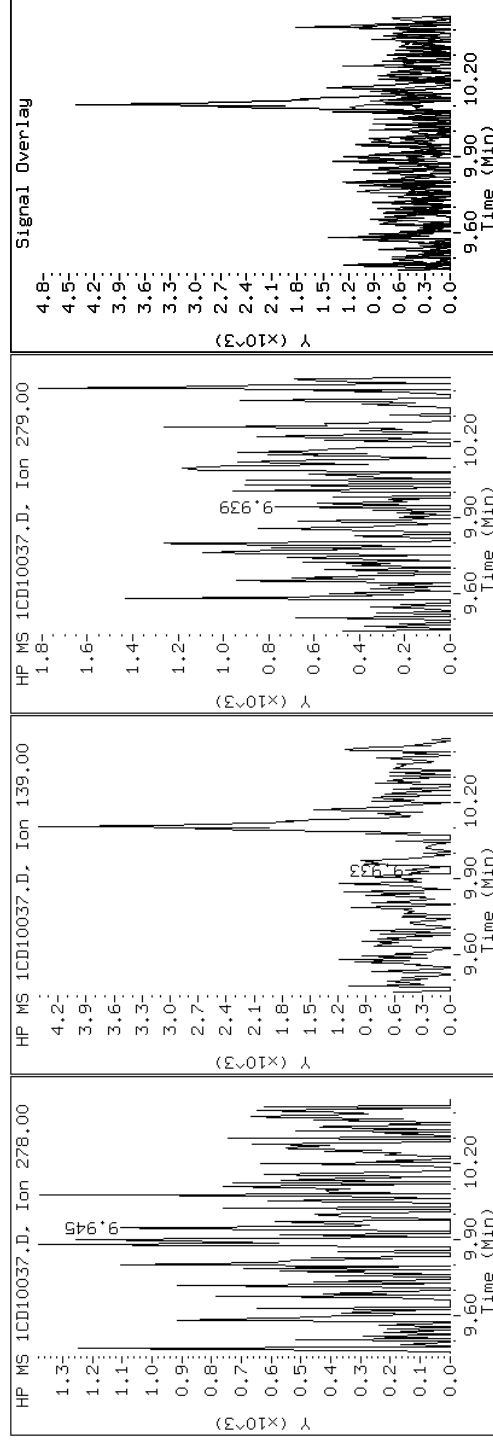
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

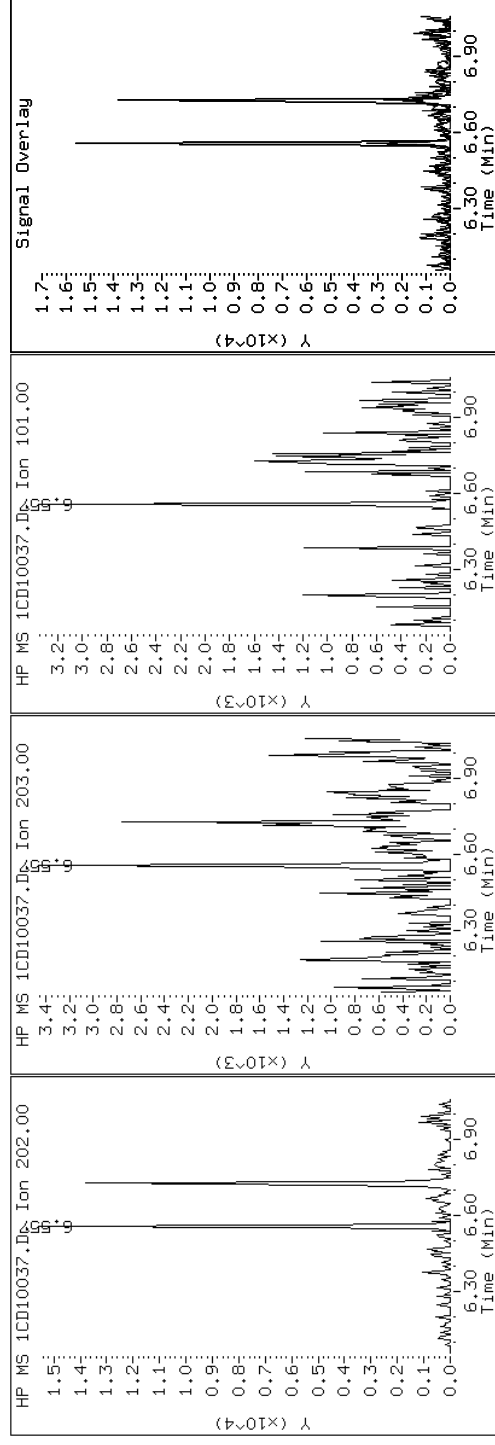
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

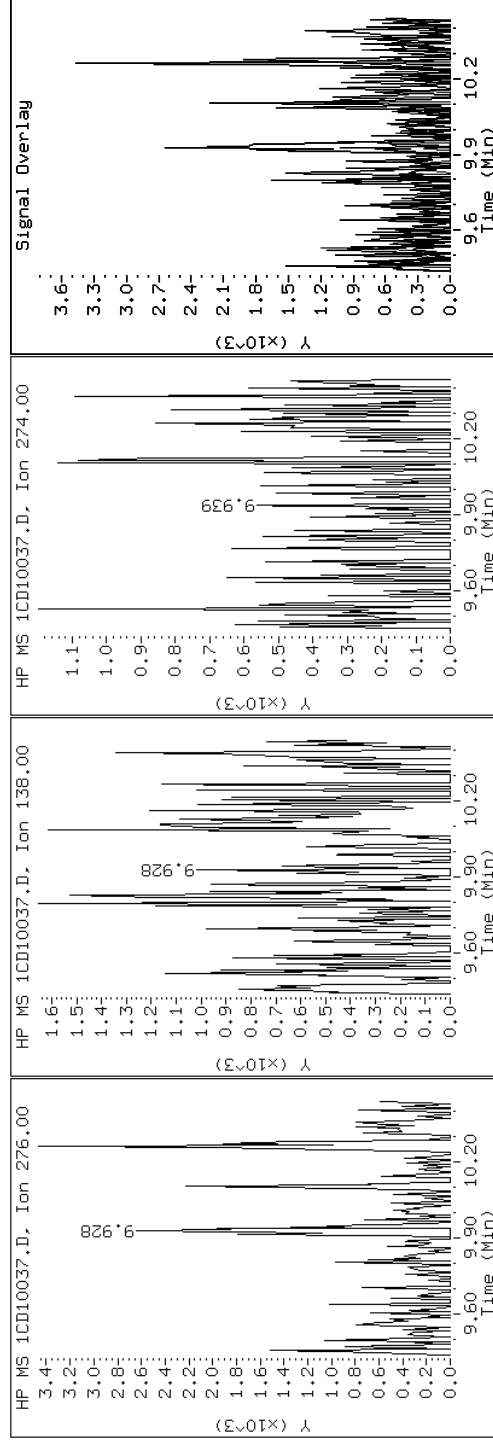
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

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



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

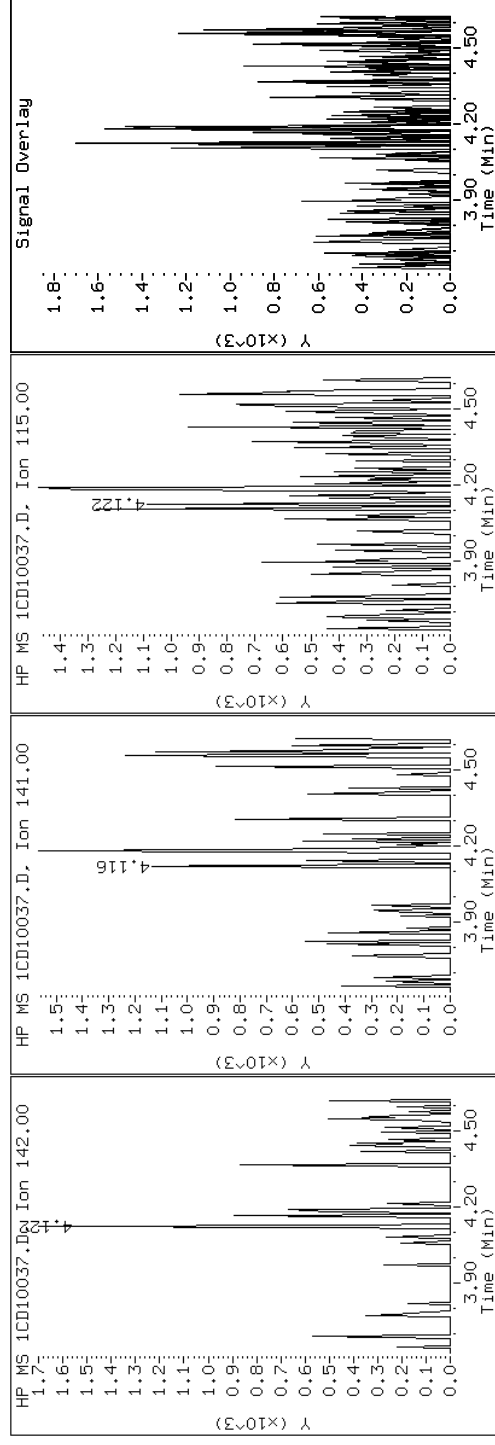
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

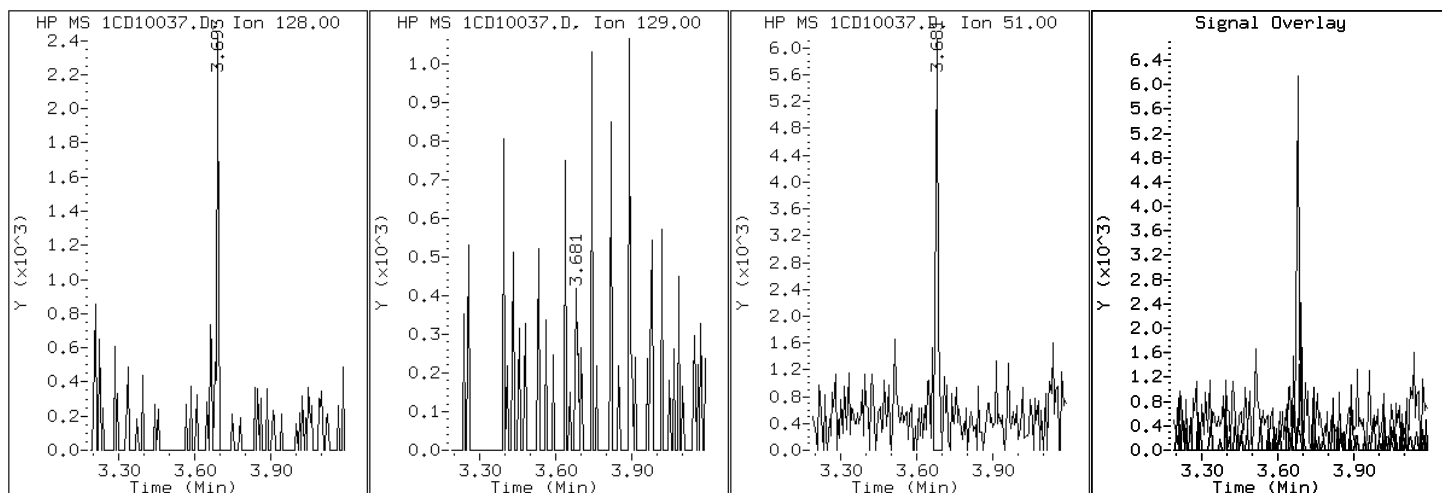
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

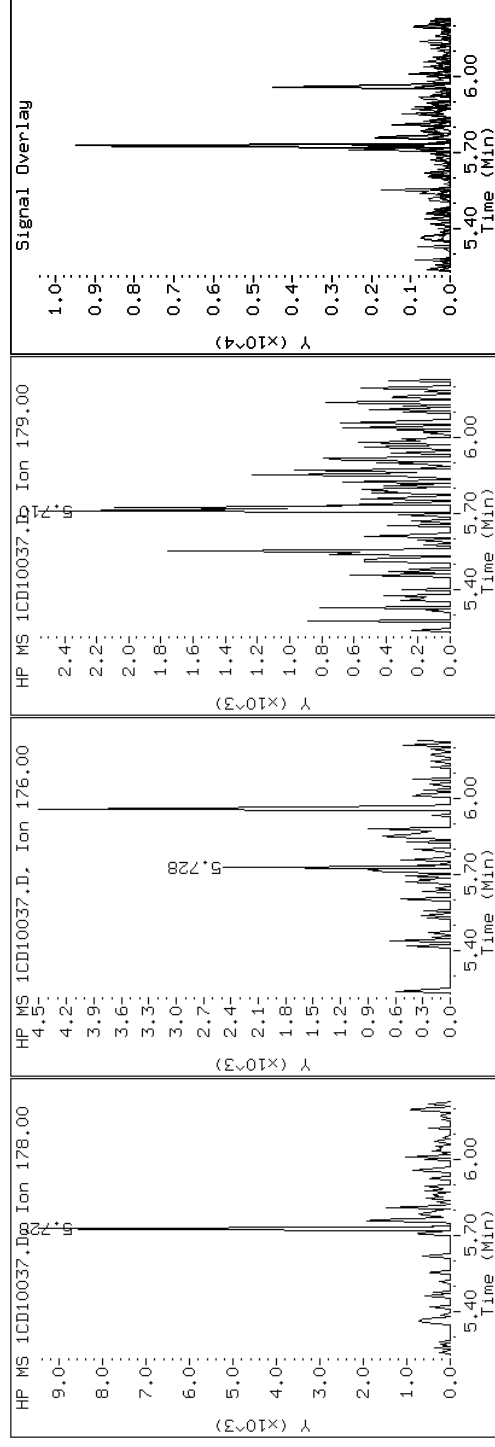
Client ID: CV0135A-CS

Instrument: BSMC5973.i

Sample Info: 680-88980-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CD10037.D

Date: 10-APR-2013 23:42

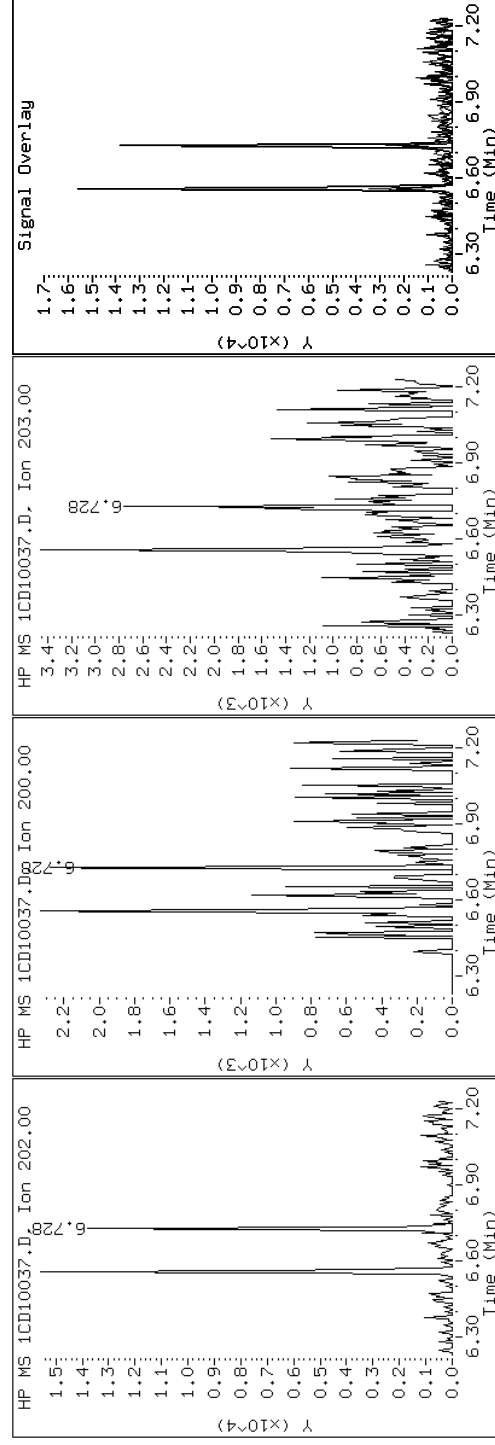
Client ID: CV0135A-CS

Sample Info: 680-88980-a-19-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

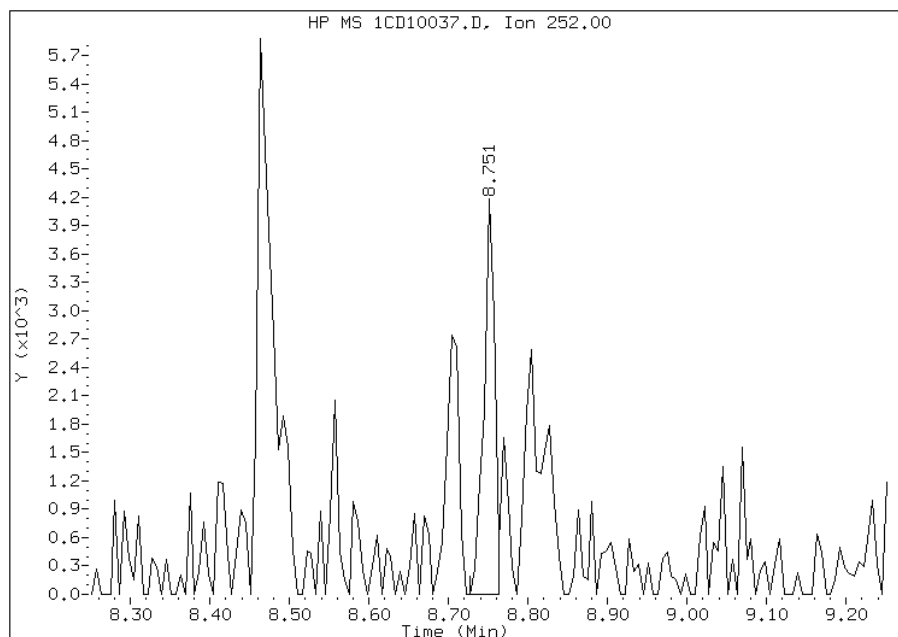


Manual Integration Report

Data File: 1CD10037.D
Inj. Date and Time: 10-APR-2013 23:42
Instrument ID: BSMC5973.i
Client ID: CV0135A-CS
Compound: 22 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 04/11/2013

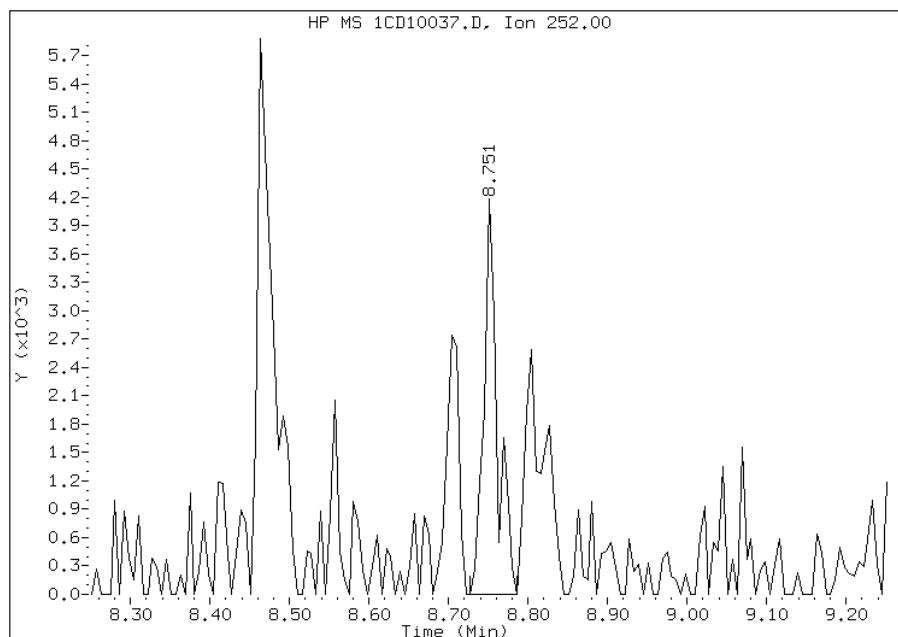
Processing Integration Results

RT: 8.75
Response: 3909
Amount: 0
Conc: 23



Manual Integration Results

RT: 8.75
Response: 4928
Amount: 0
Conc: 29



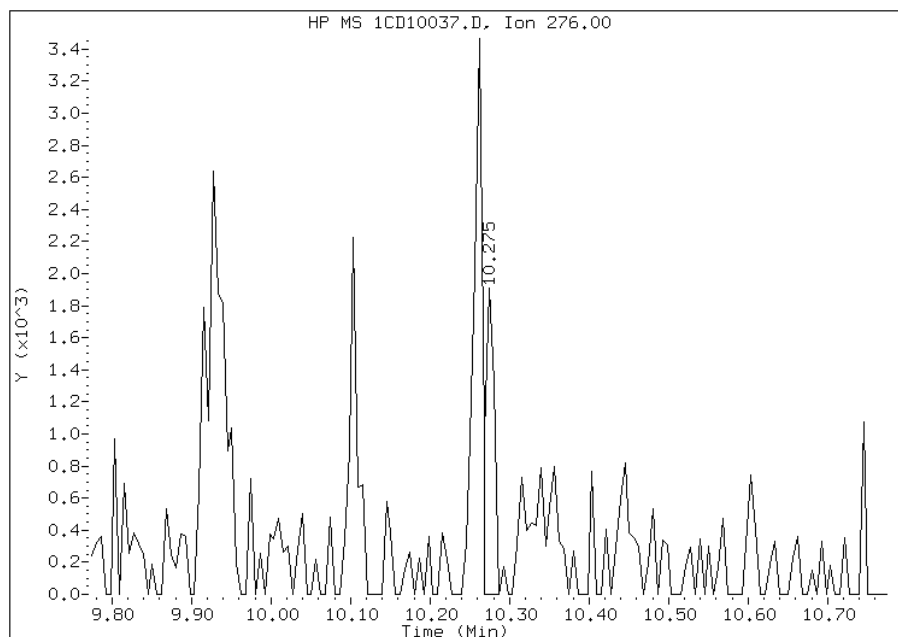
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10037.D
Inj. Date and Time: 10-APR-2013 23:42
Instrument ID: BSMC5973.i
Client ID: CV0135A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

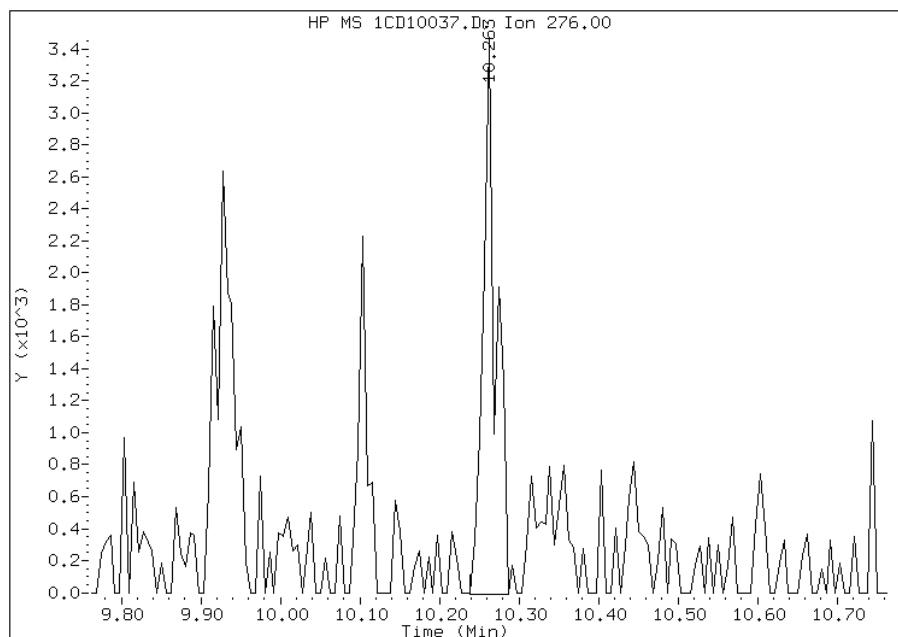
Processing Integration Results

RT: 10.27
Response: 1489
Amount: 0
Conc: 9



Manual Integration Results

RT: 10.26
Response: 3916
Amount: 0
Conc: 24



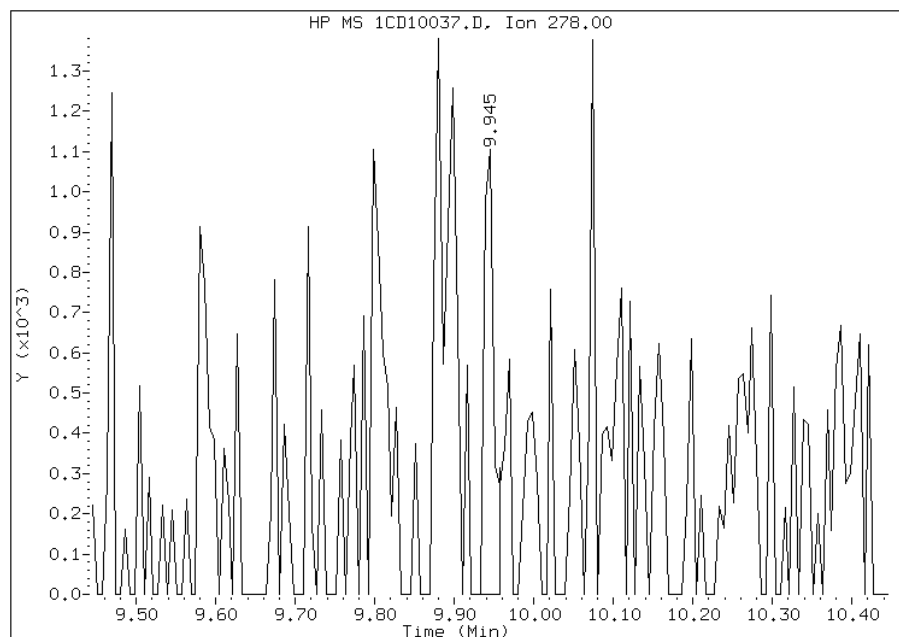
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10037.D
Inj. Date and Time: 10-APR-2013 23:42
Instrument ID: BSMC5973.i
Client ID: CV0135A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

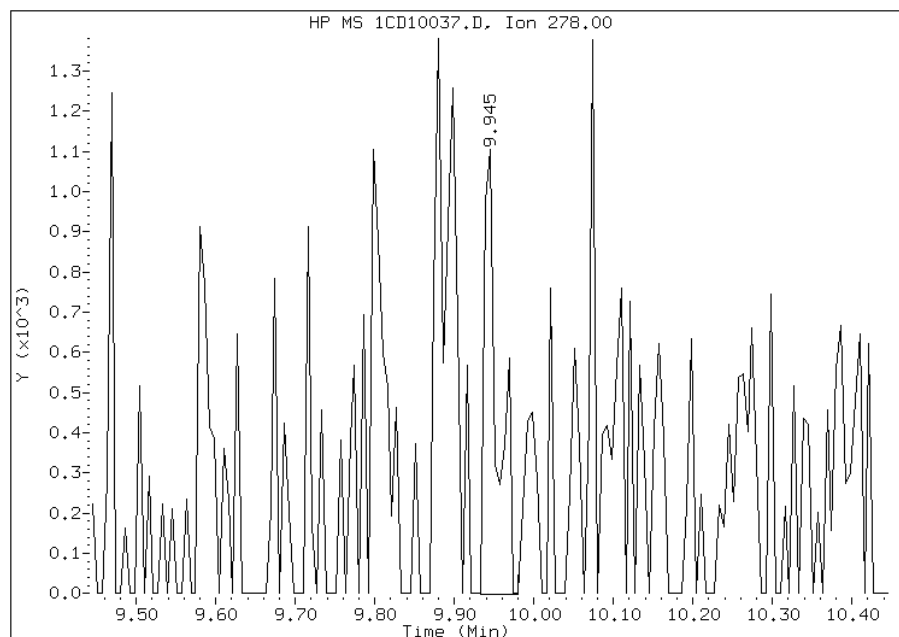
Processing Integration Results

RT: 9.95
Response: 943
Amount: 0
Conc: 6



Manual Integration Results

RT: 9.95
Response: 1285
Amount: 0
Conc: 9



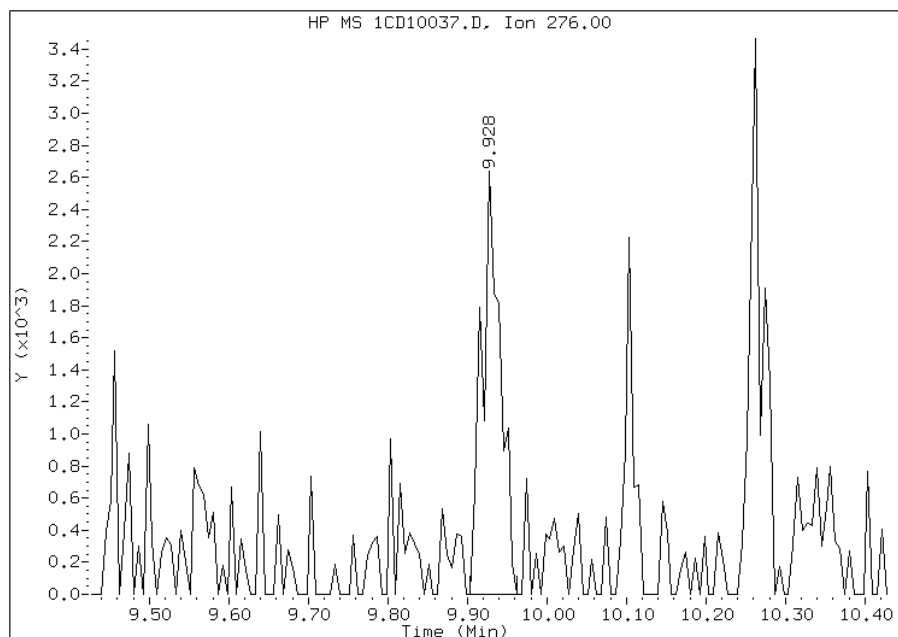
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD10037.D
Inj. Date and Time: 10-APR-2013 23:42
Instrument ID: BSMC5973.i
Client ID: CV0135A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

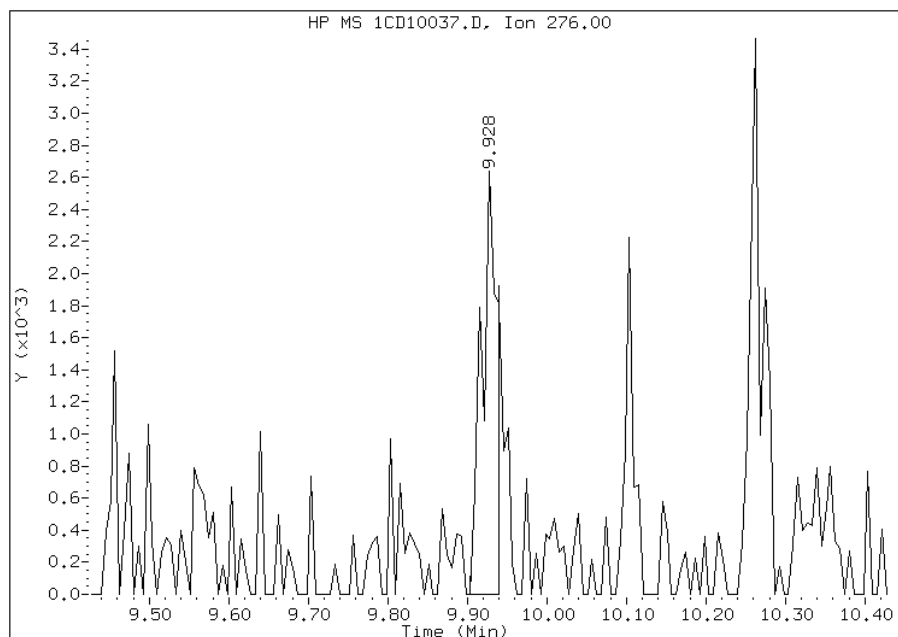
Processing Integration Results

RT: 9.93
Response: 4218
Amount: 0
Conc: 26



Manual Integration Results

RT: 9.93
Response: 3469
Amount: 0
Conc: 21



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0135B-CS</u>	Lab Sample ID: <u>680-88980-20</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD11013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 12:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.10(g)</u>	Date Analyzed: <u>04/11/2013 14:44</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>36.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136371</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	63	U	63	7.8
120-12-7	Anthracene	6.6	J	13	6.6
56-55-3	Benzo[a]anthracene	31		13	6.1
50-32-8	Benzo[a]pyrene	23		16	8.2
205-99-2	Benzo[b]fluoranthene	38		19	9.6
191-24-2	Benzo[g,h,i]perylene	20	J	31	6.9
207-08-9	Benzo[k]fluoranthene	15		13	5.6
218-01-9	Chrysene	22		14	7.1
53-70-3	Dibenz(a,h)anthracene	31	U	31	6.4
206-44-0	Fluoranthene	44		31	6.3
86-73-7	Fluorene	31	U	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	18	J	31	11
90-12-0	1-Methylnaphthalene	8.5	J	63	6.9
91-57-6	2-Methylnaphthalene	63	U	63	11
91-20-3	Naphthalene	11	J	63	6.9
85-01-8	Phenanthrene	26		13	6.1
129-00-0	Pyrene	35		31	5.8

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D041113.b\1DD11013.D
Lab Smp Id: 680-88980-A-20-A Client Smp ID: CV0135B-CS
Inj Date : 11-APR-2013 14:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-88980-A-20-A
Misc Info : 680-88980-A-20-A
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: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	36.653	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.072	6.078	(1.000)		2576799	40.0000	
* 6 Acenaphthene-d10	164		7.752	7.752	(1.000)		1592373	40.0000	
* 9 Phenanthrene-d10	188		9.010	9.016	(1.000)		2690338	40.0000	
\$ 13 o-Terphenyl	230		9.321	9.327	(1.035)		304753	7.51802	780
* 17 Chrysene-d12	240		11.324	11.331	(1.000)		2672523	40.0000	
* 22 Perylene-d12	264		13.152	13.158	(1.000)		2777167	40.0000	
2 Naphthalene	128		6.089	6.096	(1.003)		6894	0.10764	11
3 2-Methylnaphthalene	142		6.800	6.801	(1.120)		3888	0.09404	9.8
4 1-Methylnaphthalene	142		6.889	6.895	(1.134)		3175	0.08132	8.5
5 Acenaphthylene	152		7.623	7.623	(0.983)		2964	0.04398	4.6
10 Phenanthrene	178		9.027	9.033	(1.002)		18745	0.25295	26
11 Anthracene	178		9.068	9.074	(1.007)		4664	0.06341	6.6
12 Carbazole	167		9.209	9.215	(1.022)		2635	0.04062	4.2
14 Fluoranthene	202		10.008	10.014	(1.111)		32212	0.42241	44

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Pyrene	202	10.196	10.208 (0.900)		26965	0.33599	35
16 Benzo(a)anthracene	228	11.307	11.313 (0.998)		23026	0.29800	31
18 Chrysene	228	11.342	11.354 (1.002)		15308	0.21129	22
19 Benzo(b)fluoranthene	252	12.594	12.611 (0.958)		25155	0.36260	38
20 Benzo(k)fluoranthene	252	12.623	12.653 (0.960)		10489	0.14352	15(H)
21 Benzo(a)pyrene	252	13.040	13.064 (0.992)		15556	0.22317	23
23 Indeno(1,2,3-cd)pyrene	276	14.715	14.744 (1.119)		12672	0.17049	18(M)
24 Dibenzo(a,h)anthracene	278	14.744	14.779 (1.121)		4198	0.05998	6.3(MH)
25 Benzo(g,h,i)perylene	276	15.144	15.191 (1.151)		13994	0.19554	20(MH)

QC Flag Legend

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

Data File: 1DD11013.D

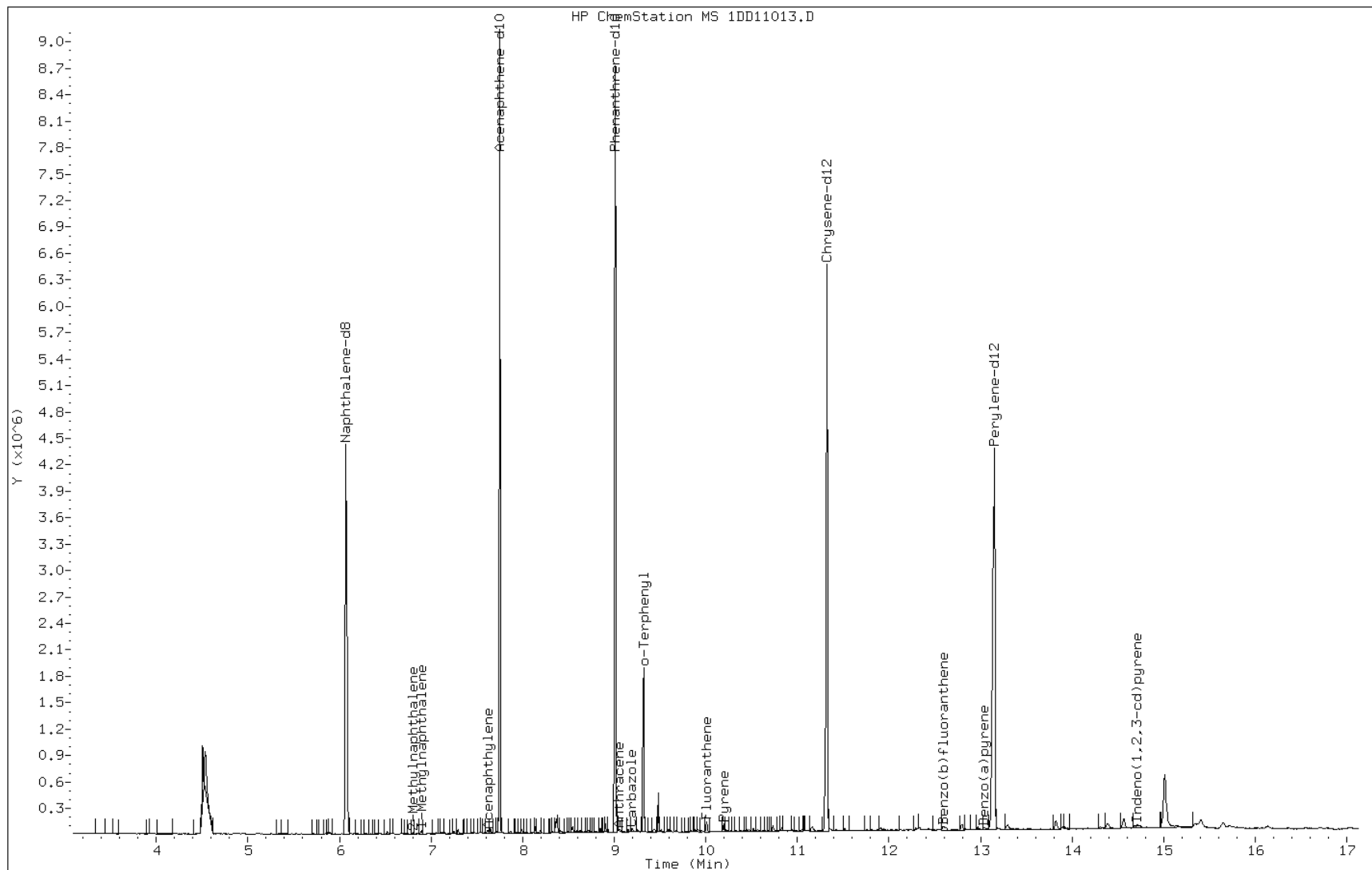
Date: 11-APR-2013 14:44

Client ID: CV0135B-CS

Instrument: BSMSD.i

Sample Info: 680-88980-A-20-A

Operator: SCC



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

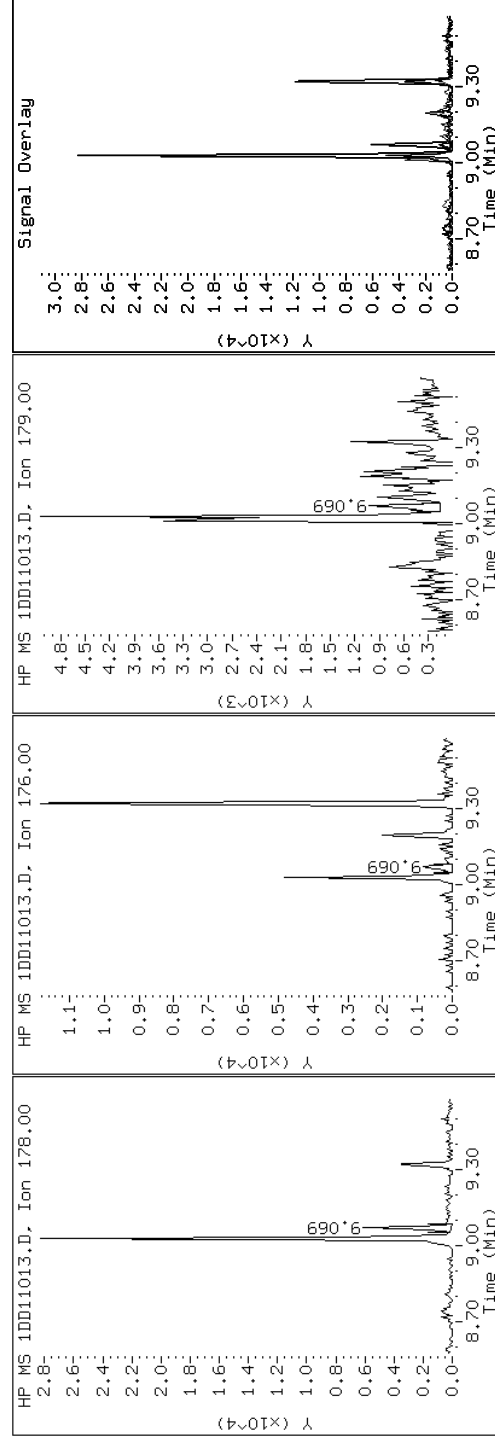
Client ID: CV0135B-CS

Instrument: BSMSD.i

Sample Info: 680-88980-A-20-A

Operator: SCC

11 Anthracene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

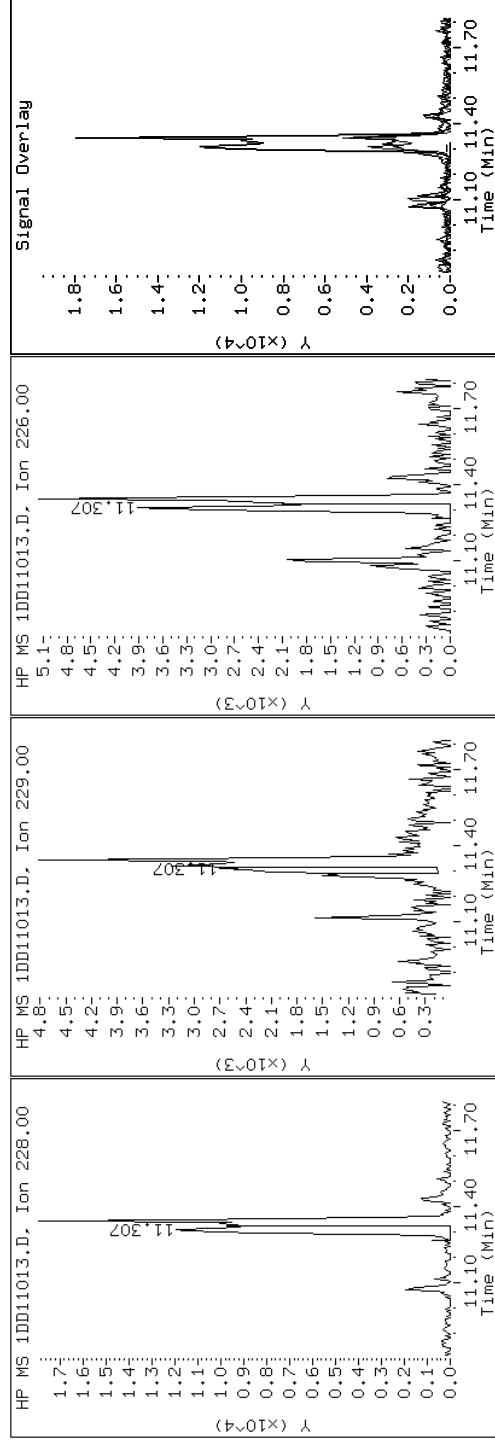
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

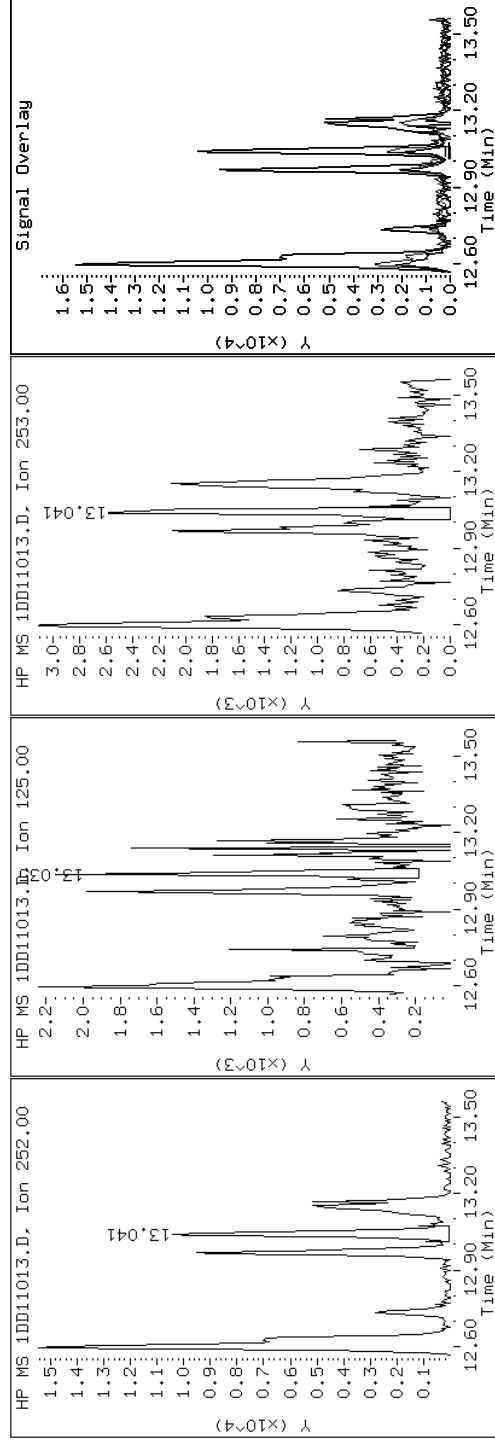
Client ID: CV0135B-CS

Instrument: BSMSD.i

Sample Info: 680-88980-A-20-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

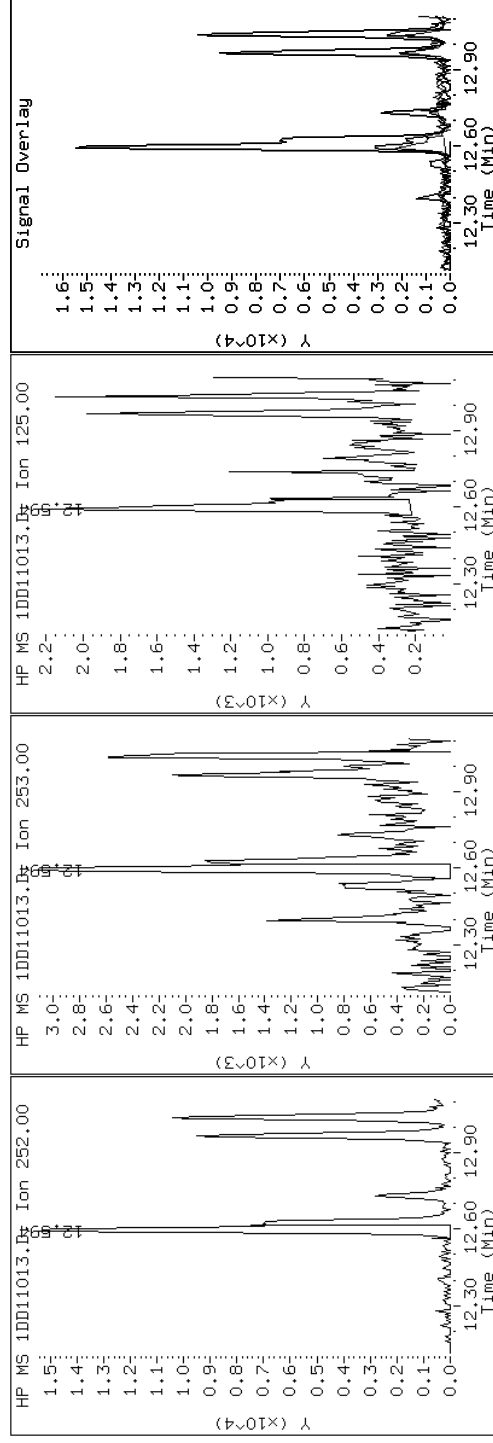
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

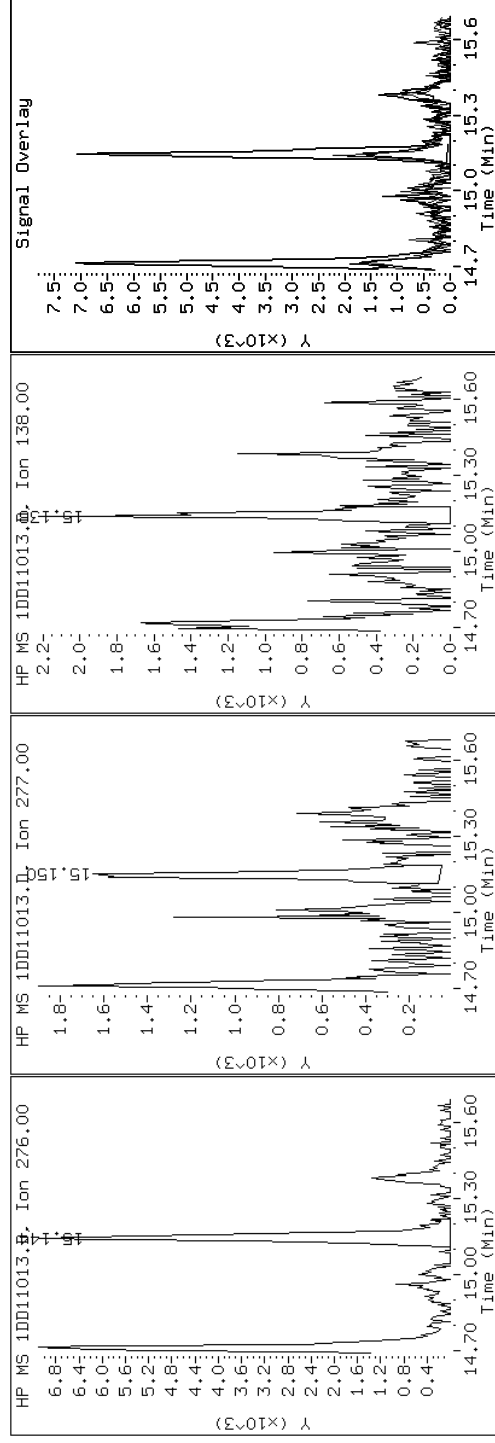
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

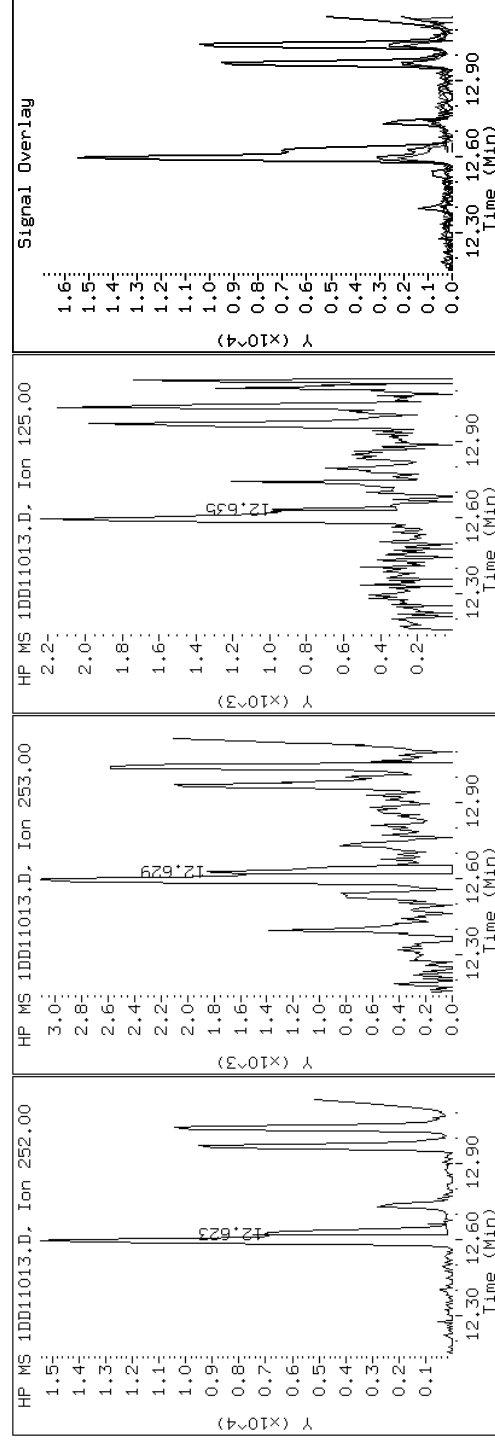
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

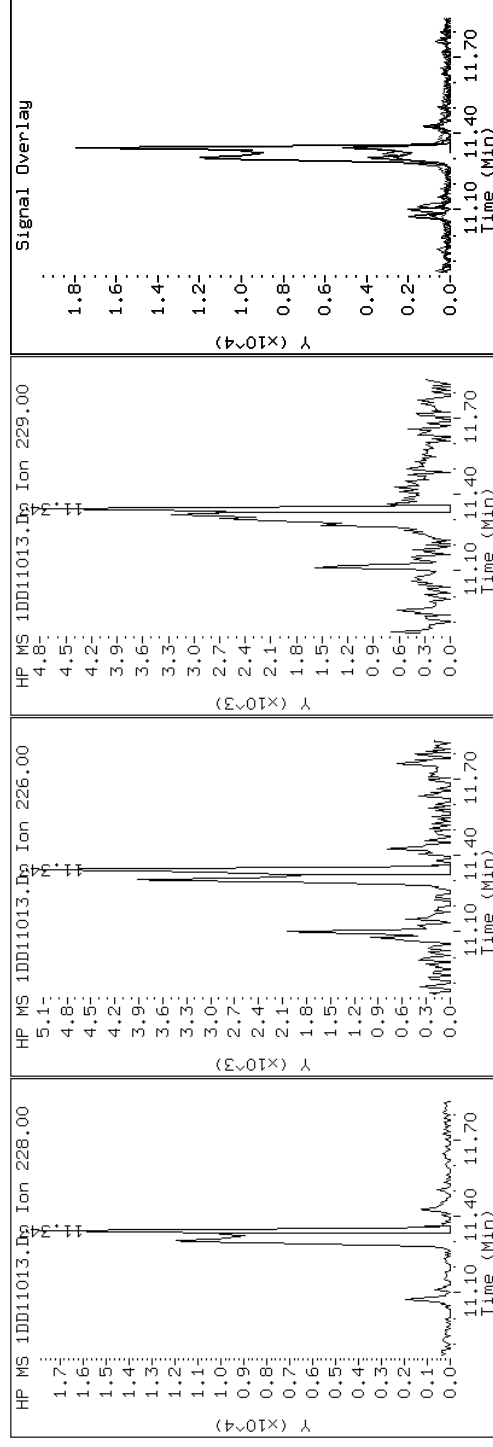
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

18 Chrysene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

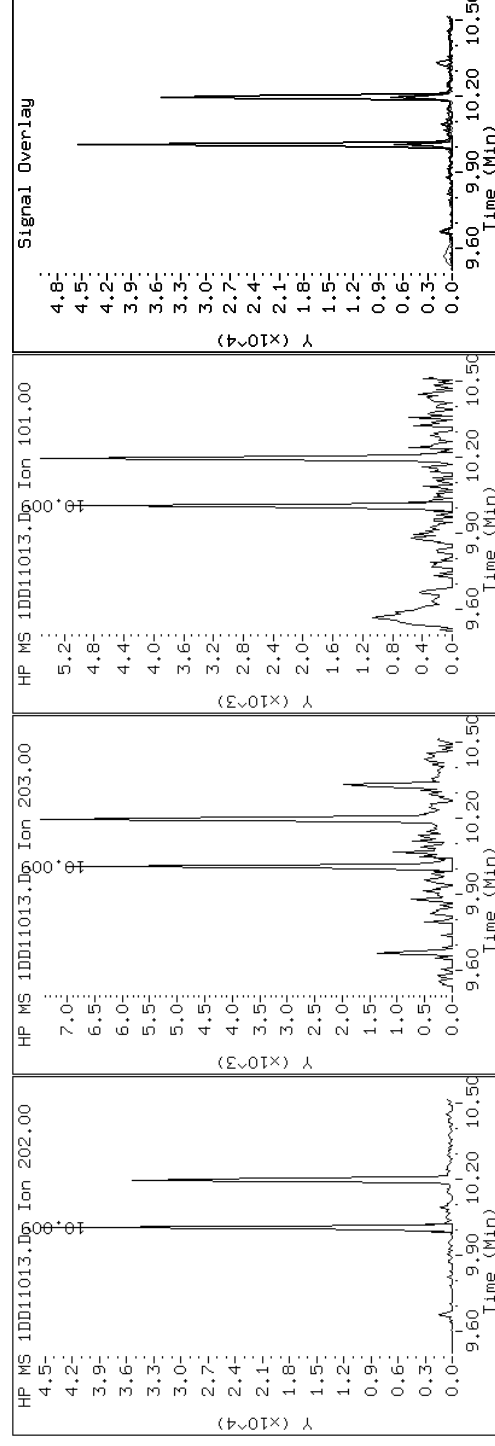
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

14 Fluoranthene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

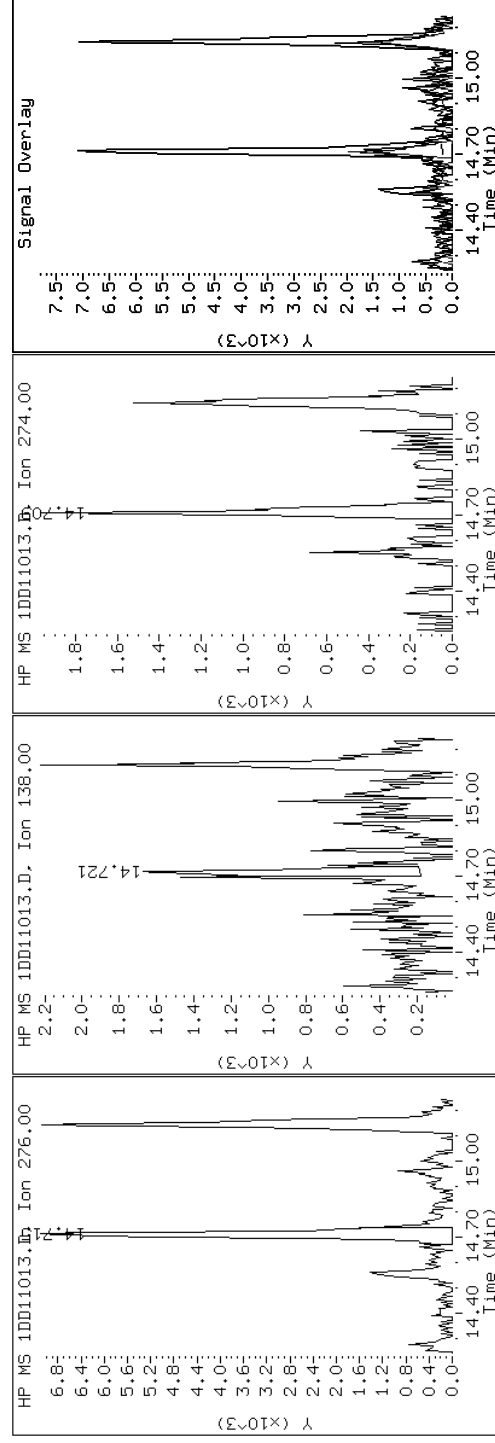
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

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



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

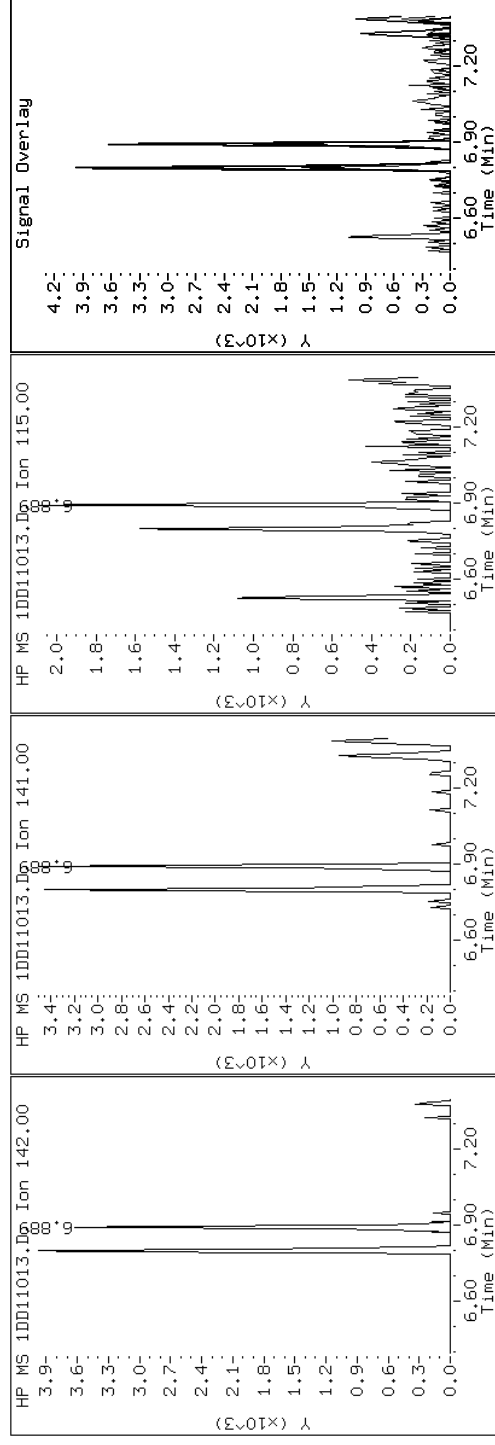
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

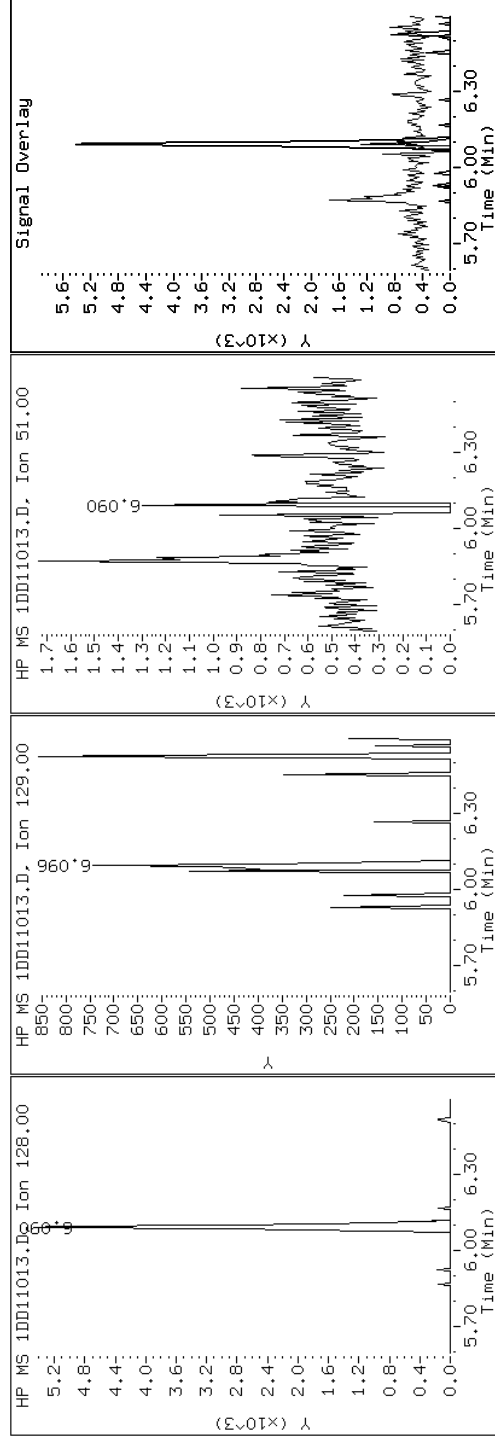
Client ID: CV0135B-CS

Sample Info: 680-88980-A-20-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

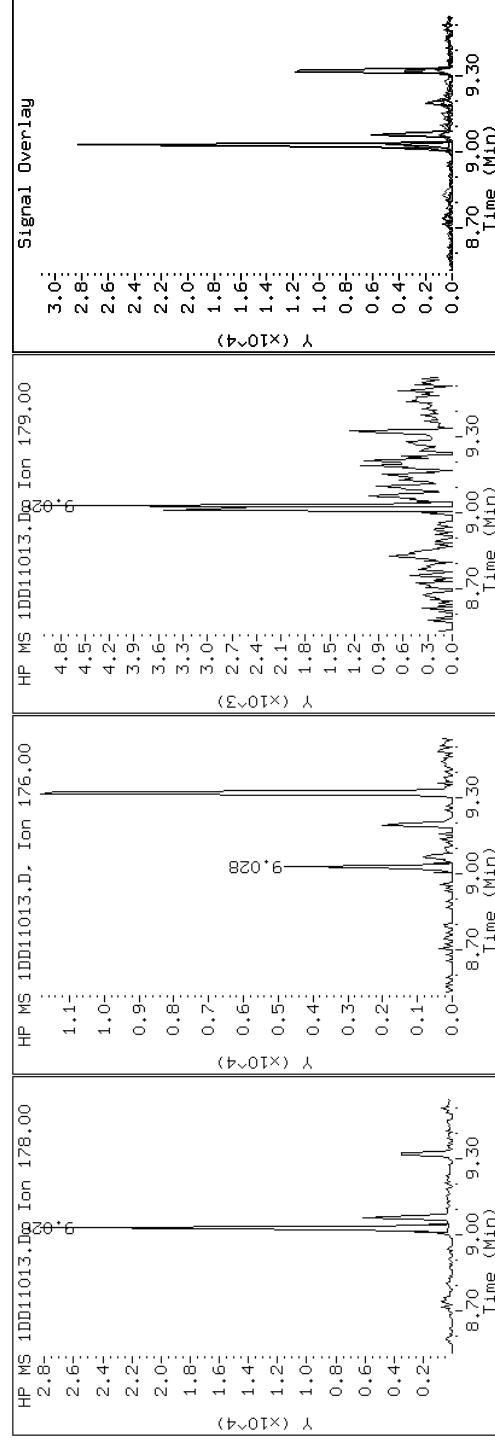
Client ID: CV0135B-CS

Instrument: BSMSD.i

Sample Info: 680-88980-A-20-A

Operator: SCC

10 Phenanthrene



Data File: 1DD11013.D

Date: 11-APR-2013 14:44

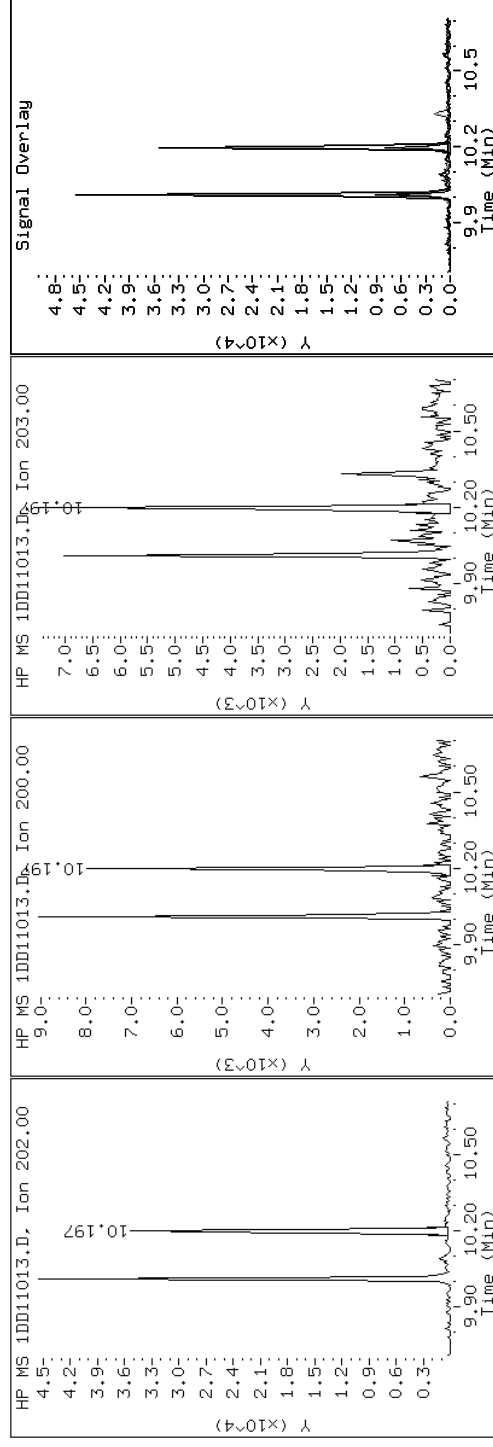
Client ID: CV0135B-CS

Instrument: BSMDS.i

Sample Info: 680-88980-A-20-A

Operator: SCC

15 Pyrene

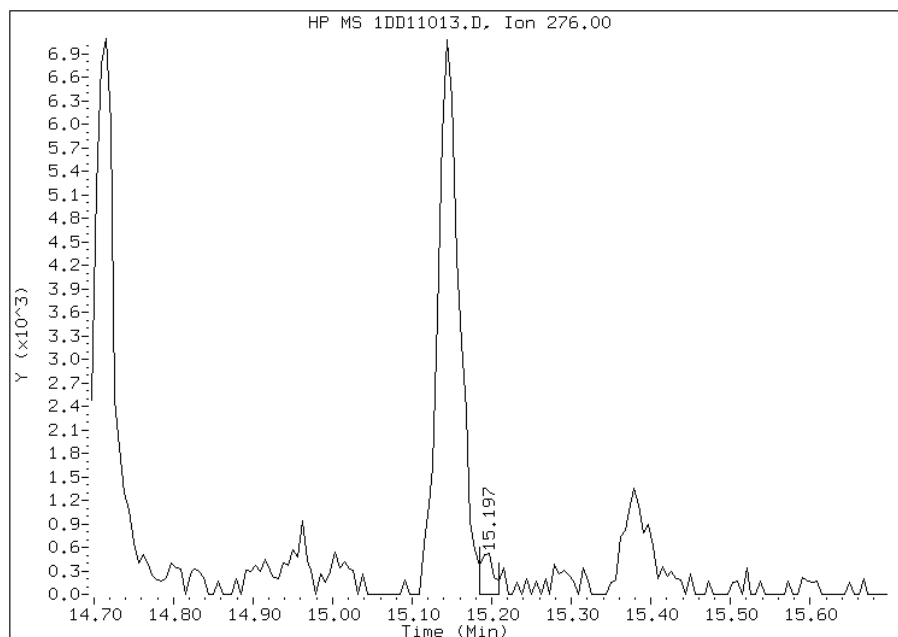


Manual Integration Report

Data File: 1DD11013.D
Inj. Date and Time: 11-APR-2013 14:44
Instrument ID: BSMSD.i
Client ID: CV0135B-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

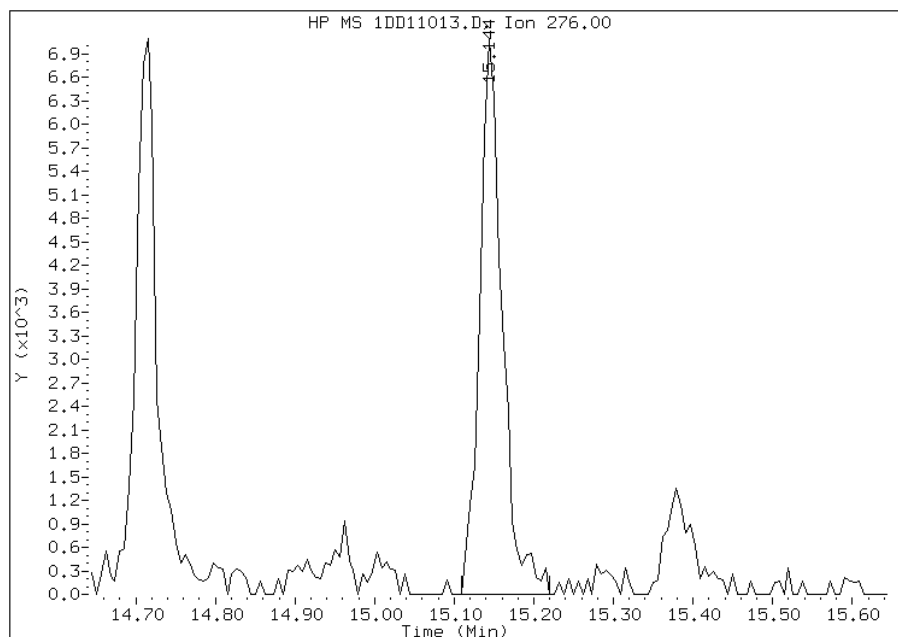
Processing Integration Results

RT: 15.20
Response: 628
Amount: 0
Conc: 1



Manual Integration Results

RT: 15.14
Response: 13994
Amount: 0
Conc: 20



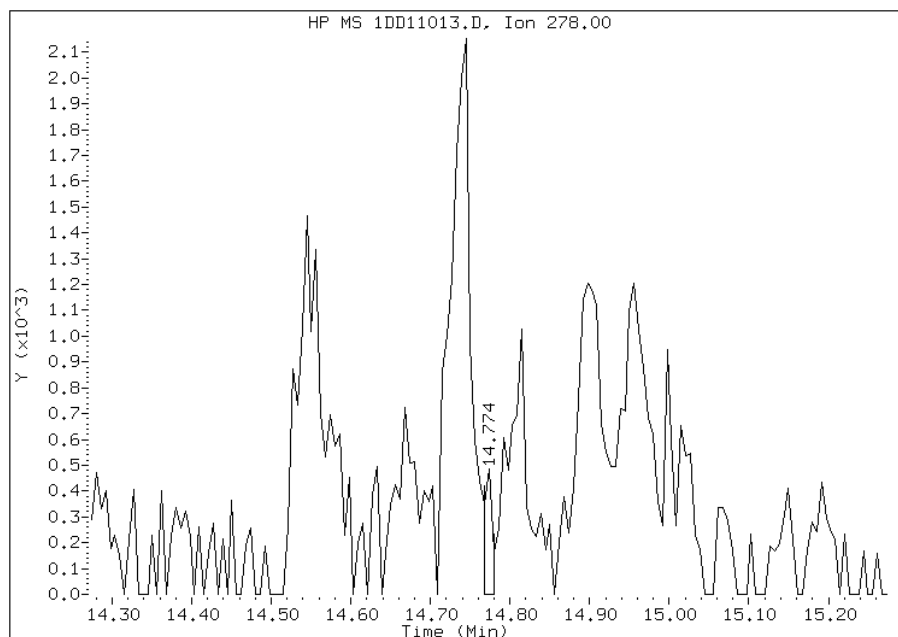
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD11013.D
Inj. Date and Time: 11-APR-2013 14:44
Instrument ID: BSMSD.i
Client ID: CV0135B-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

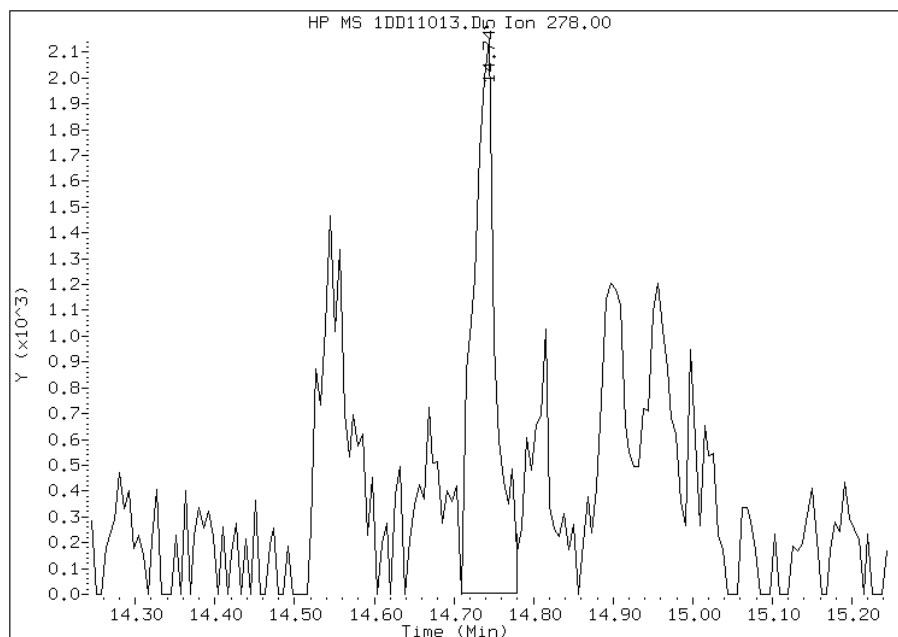
Processing Integration Results

RT: 14.77
Response: 352
Amount: 0
Conc: 1



Manual Integration Results

RT: 14.74
Response: 4198
Amount: 0
Conc: 6



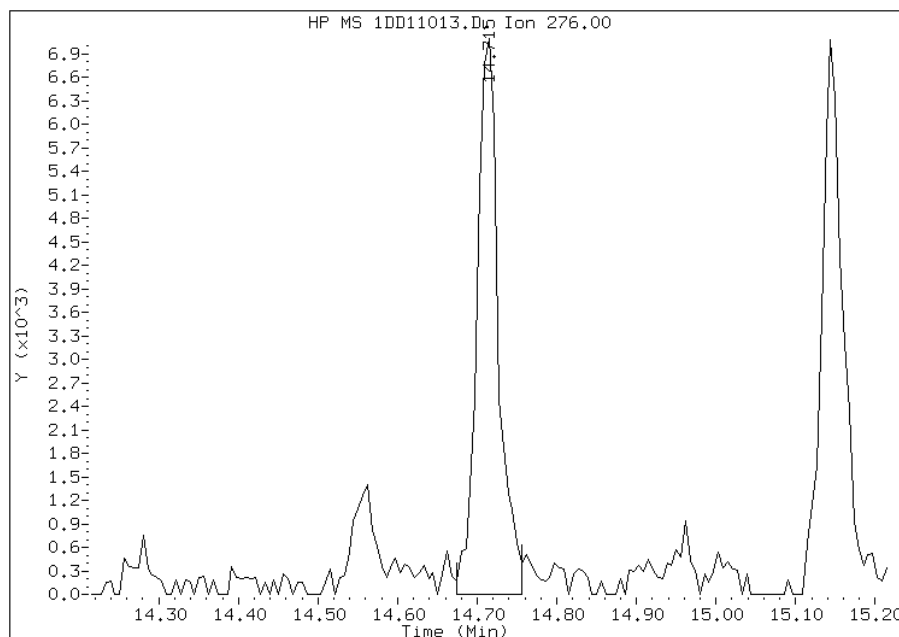
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD11013.D
Inj. Date and Time: 11-APR-2013 14:44
Instrument ID: BSMSD.i
Client ID: CV0135B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

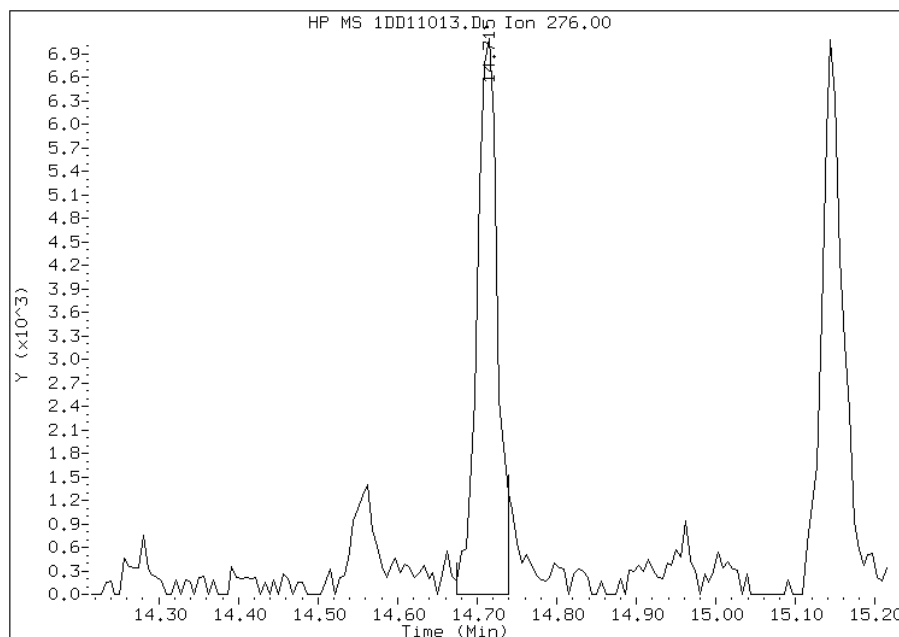
Processing Integration Results

RT: 14.72
Response: 13424
Amount: 0
Conc: 19



Manual Integration Results

RT: 14.72
Response: 12672
Amount: 0
Conc: 18



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 15:41
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88980-1 Analy Batch No.: 136048

SDG No.: 68088980-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9951 1.0462	0.9249 1.0491	1.1511	1.0146	1.0107	Ave		1.0274			0.0000	6.7		15.0			
2-Methylnaphthalene	0.7586 0.6820	0.6817 0.7025	0.6887	0.7485	0.6335	Ave		0.6994			0.0000	6.1		15.0			
1-Methylnaphthalene	0.7248 0.6605	0.4518 0.6576	0.6481	0.6089	0.6533	Ave		0.6293			0.0000	13.6		15.0			
Acenaphthylene	1.4345 1.7430	1.5801 1.7453	1.7015	1.6743	1.7098	Ave		1.6555			0.0000	6.8		15.0			
Acenaphthene	0.8041 1.0063	1.3709 1.0300	0.9518	0.9544	1.0574	Lin		1.0254			0.0000				0.9993		0.9900
Fluorene	1.2800 1.3623	1.5080 1.3691	1.4076	1.2955	1.3459	Ave		1.3669			0.0000	5.6		15.0			
Phenanthrene	1.2753 1.1465	1.1377 1.2101	1.1311	1.1382	1.1160	Ave		1.1650			0.0000	4.9		15.0			
Anthracene	1.2299 1.2077	1.1082 1.2343	1.1512	1.1740	1.1613	Ave		1.1810			0.0000	3.9		15.0			
Carbazole	0.9389 1.0577	0.8968 1.0652	1.0685	0.9845	1.0709	Ave		1.0118			0.0000	7.1		15.0			
Fluoranthene	1.0844 1.3160	1.1991 1.4023	1.3527	1.3181	1.3335	Ave		1.2866			0.0000	8.4		15.0			
Pyrene	1.0454 1.1504	1.0946 1.1474	1.1166	1.0638	1.1380	Ave		1.1080			0.0000	3.8		15.0			
Benzo[a]anthracene	1.9586 1.1436	1.3015 1.1642	1.1246	1.1267	1.1237	Lin	0.0034	1.1590			0.0000				0.9997		0.9900
Chrysene	1.0137 1.1434	1.2130 1.1619	1.2029	1.1145	1.1295	Ave		1.1398			0.0000	5.8		15.0			
Benzo[b]fluoranthene	1.4007 1.0698	0.9300 1.1884	1.1544	1.1244	1.0480	Ave		1.1308			0.0000	12.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88980-1 Analy Batch No.: 136048

SDG No.: 68088980-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9952 1.1459	1.0465 1.1495	1.1058	1.1151	1.0979	Ave		1.0937			0.0000	5.1		15.0			
Benzo[a]pyrene	1.2128 1.0446	0.9589 1.1556	1.0227	1.0341	1.0238	Ave		1.0647			0.0000	8.2		15.0			
Indeno[1,2,3-cd]pyrene	1.2338 1.0436	0.9049 1.0226	1.0384	0.9595	0.8756	Ave		1.0112			0.0000	11.7		15.0			
Dibenz(a,h)anthracene	0.9208 0.9567	0.9397 0.9834	0.8833	0.9304	0.9246	Ave		0.9341			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0683 1.0751	0.9692 1.0455	1.0646	1.0048	0.9970	Ave		1.0321			0.0000	4.0		15.0			
o-Terphenyl	0.8162 0.5958	0.5068 0.6604	0.5759	0.6060	0.6022	Lin	0.0181	0.6529			0.0000				0.9966		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-88980-1 Analy Batch No.: 136048

SDG No.: 68088980-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136048/5	1CD02005.D
Level 2	IC 660-136048/6	1CD02006.D
Level 3	IC 660-136048/7	1CD02007.D
Level 4	IC 660-136048/8	1CD02008.D
Level 5	ICIS 660-136048/9	1CD02009.D
Level 6	IC 660-136048/10	1CD02010.D
Level 7	IC 660-136048/11	1CD02011.D

ANALYTE	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	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	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.: 680-88980-1 Analy Batch No.: 136048

SDG No.: 68088980-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/02/2013 13:26 Calibration End Date: 04/02/2013 15:15 Calibration ID: 2859

ANALYTE	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
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
\$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(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: 1CD02005.D

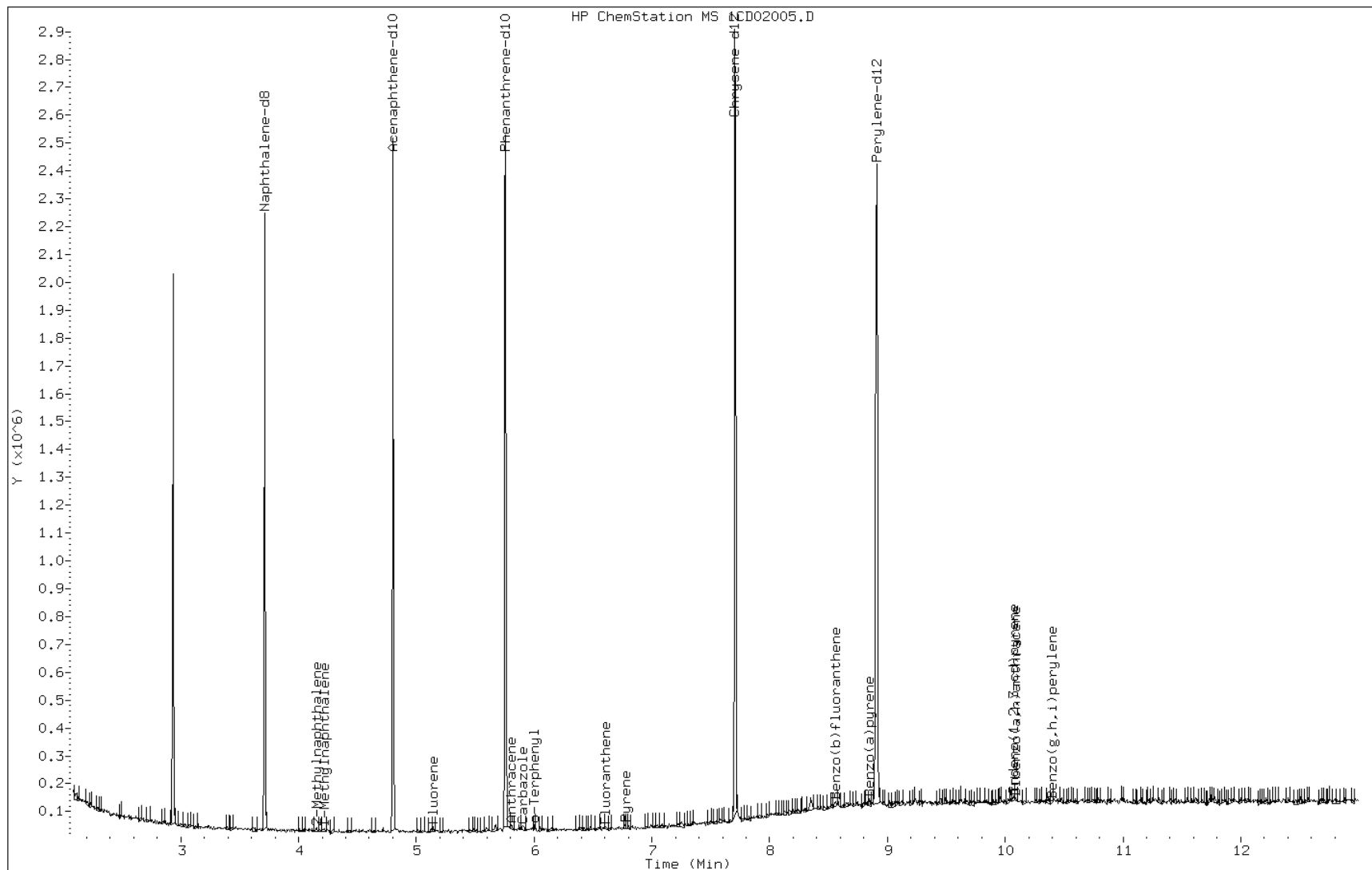
Date: 02-APR-2013 13:26

Client ID:

Instrument: BSMC5973.i

Sample Info: IC1

Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

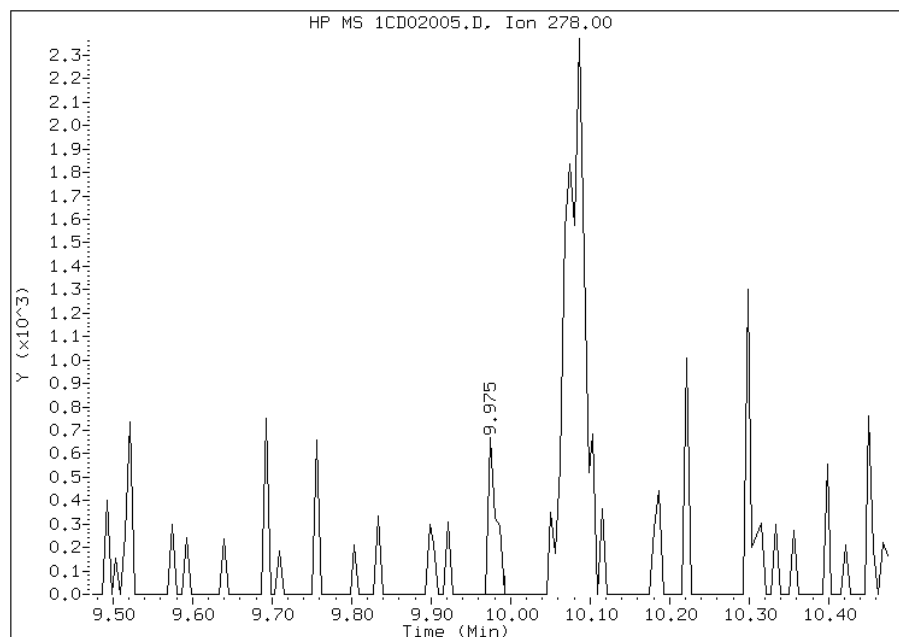
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



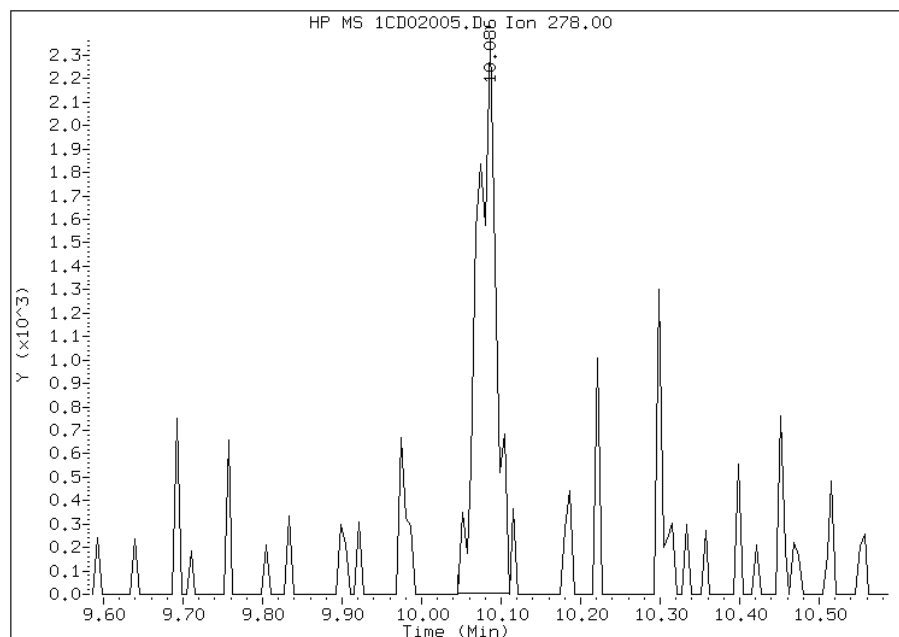
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

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

Data File: 1CD02006.D

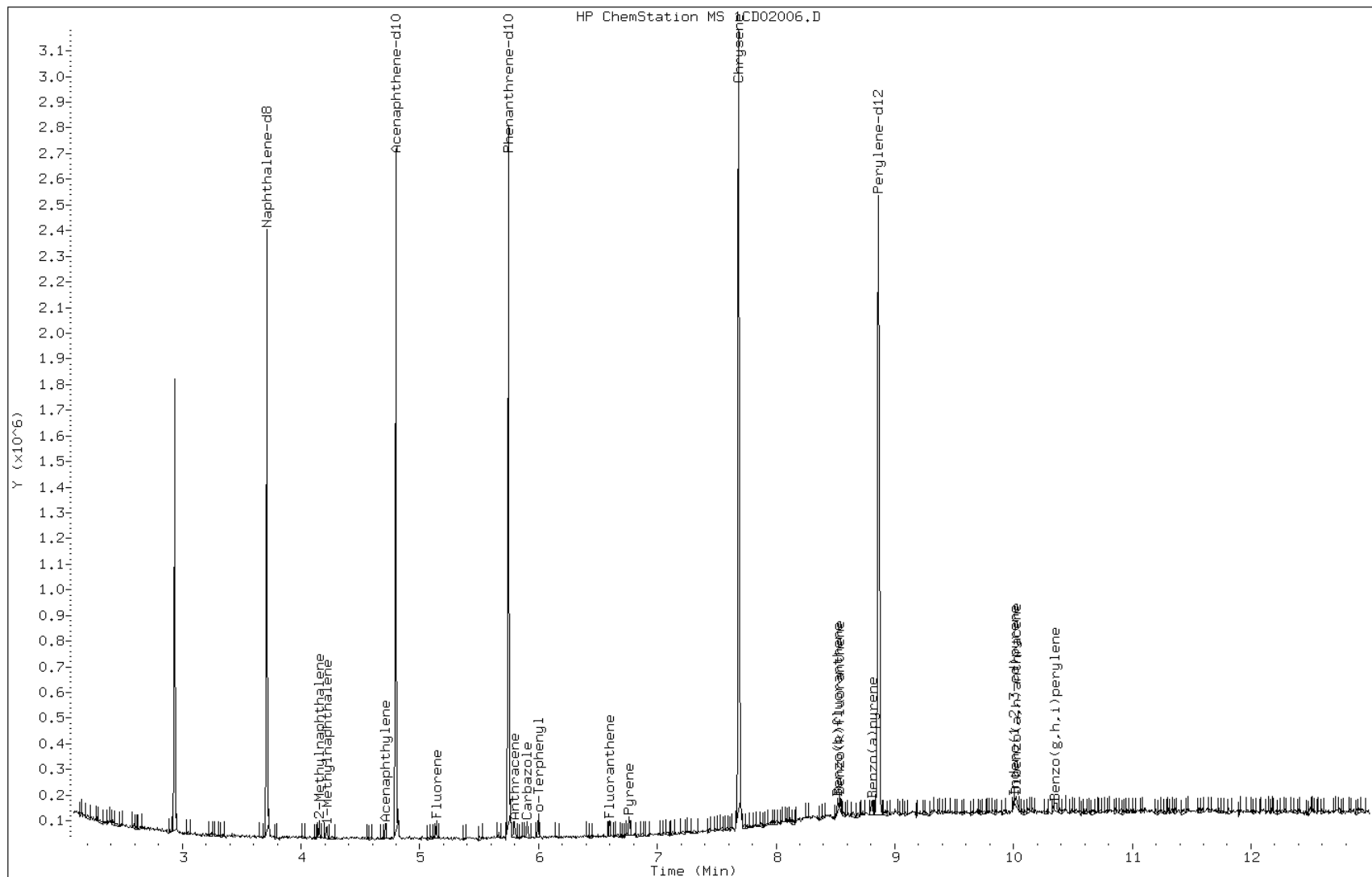
Date: 02-APR-2013 13:44

Client ID:

Instrument: BSMC5973.i

Sample Info: IC2

Operator: SCC

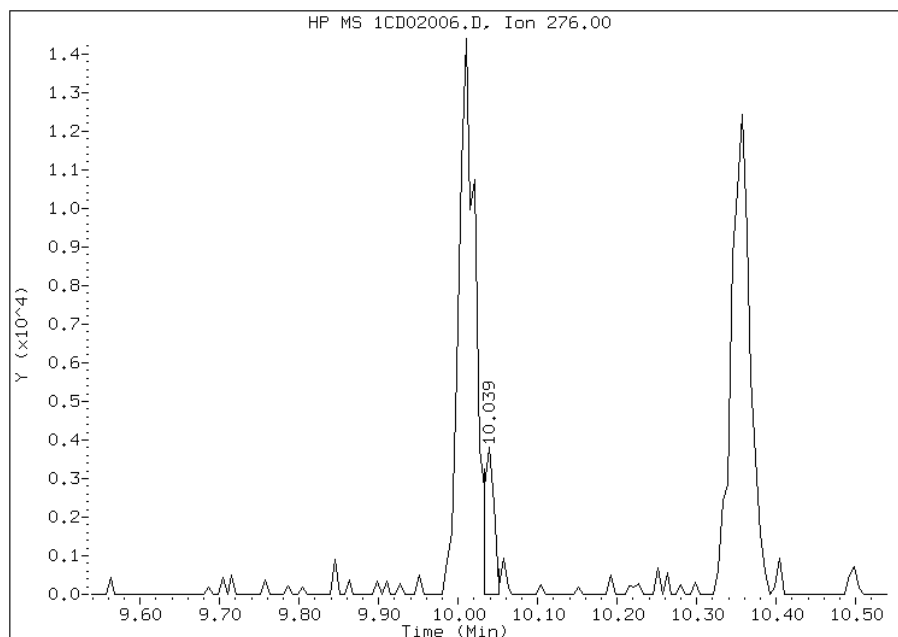


Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

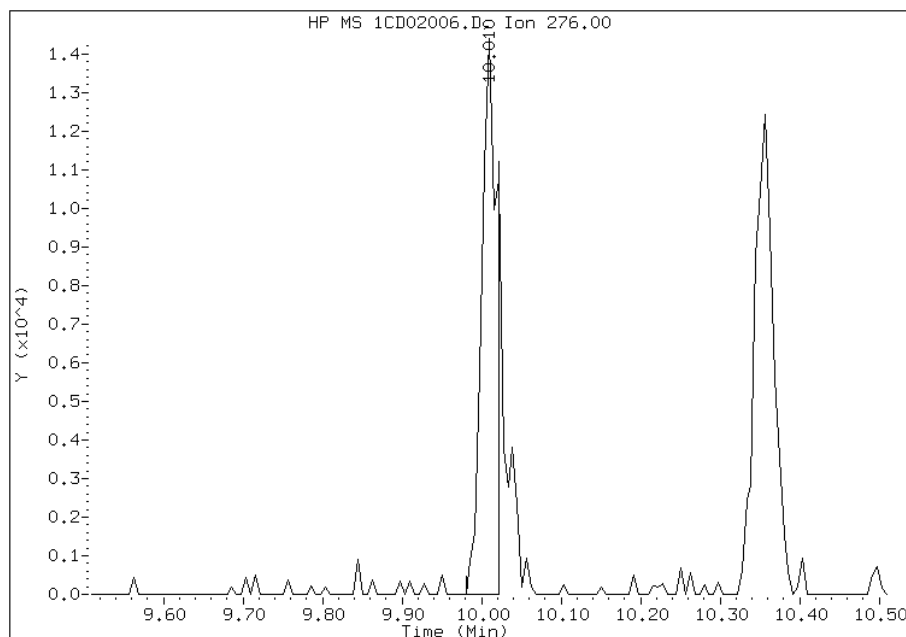
Processing Integration Results

RT: 10.04
Response: 3225
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 19198
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(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: 1CD02007.D

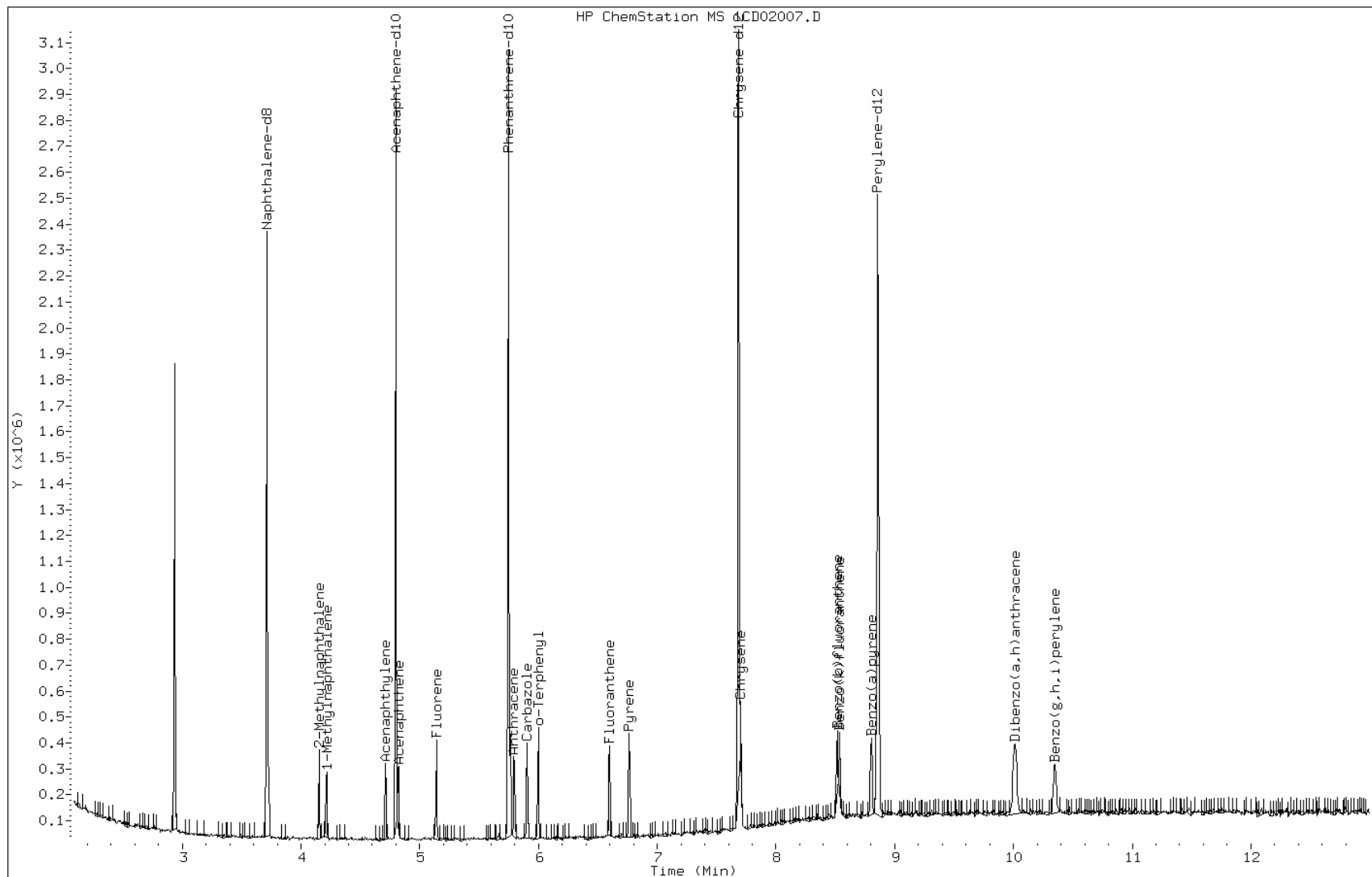
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC

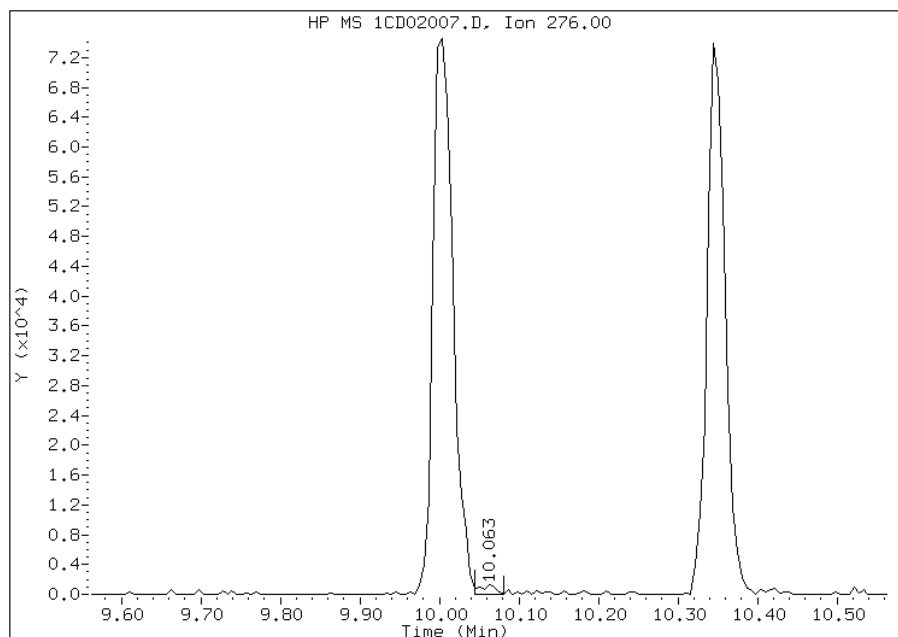


Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

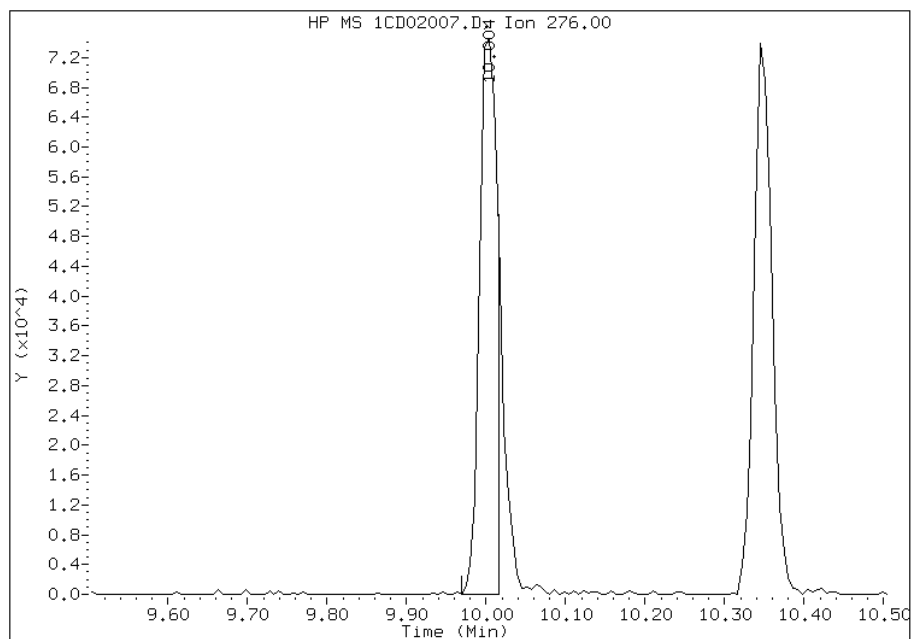
Processing Integration Results

RT: 10.06
Response: 1809
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.00
Response: 114519
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

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

Data File: 1CD02008.D

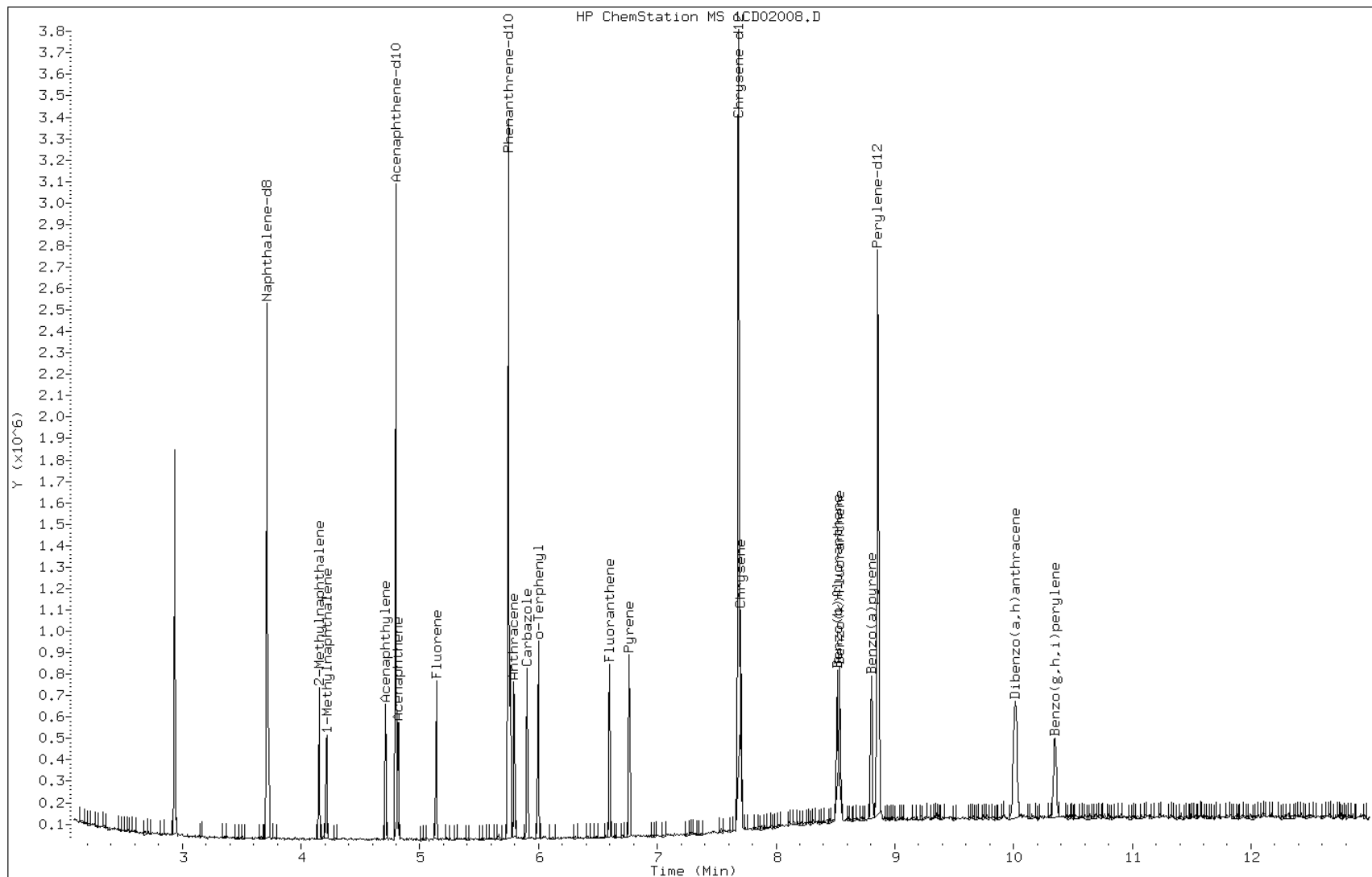
Date: 02-APR-2013 14:20

Client ID:

Instrument: BSMC5973.i

Sample Info: IC4

Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

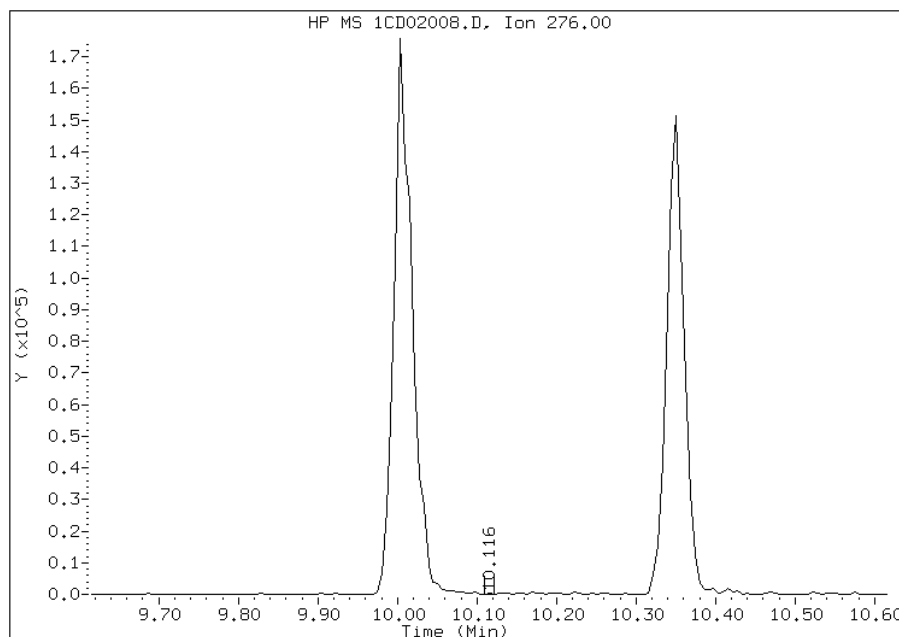
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



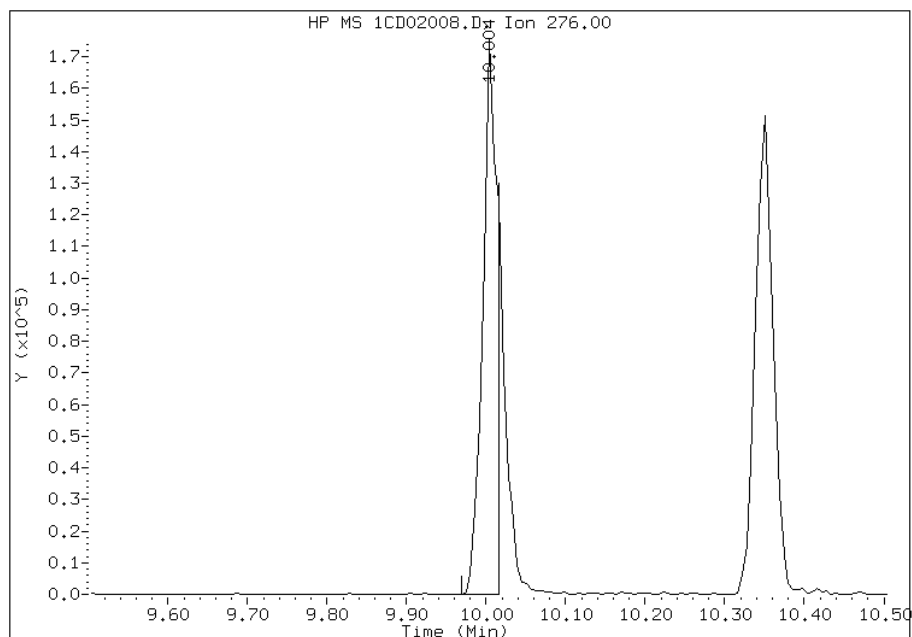
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02009.D

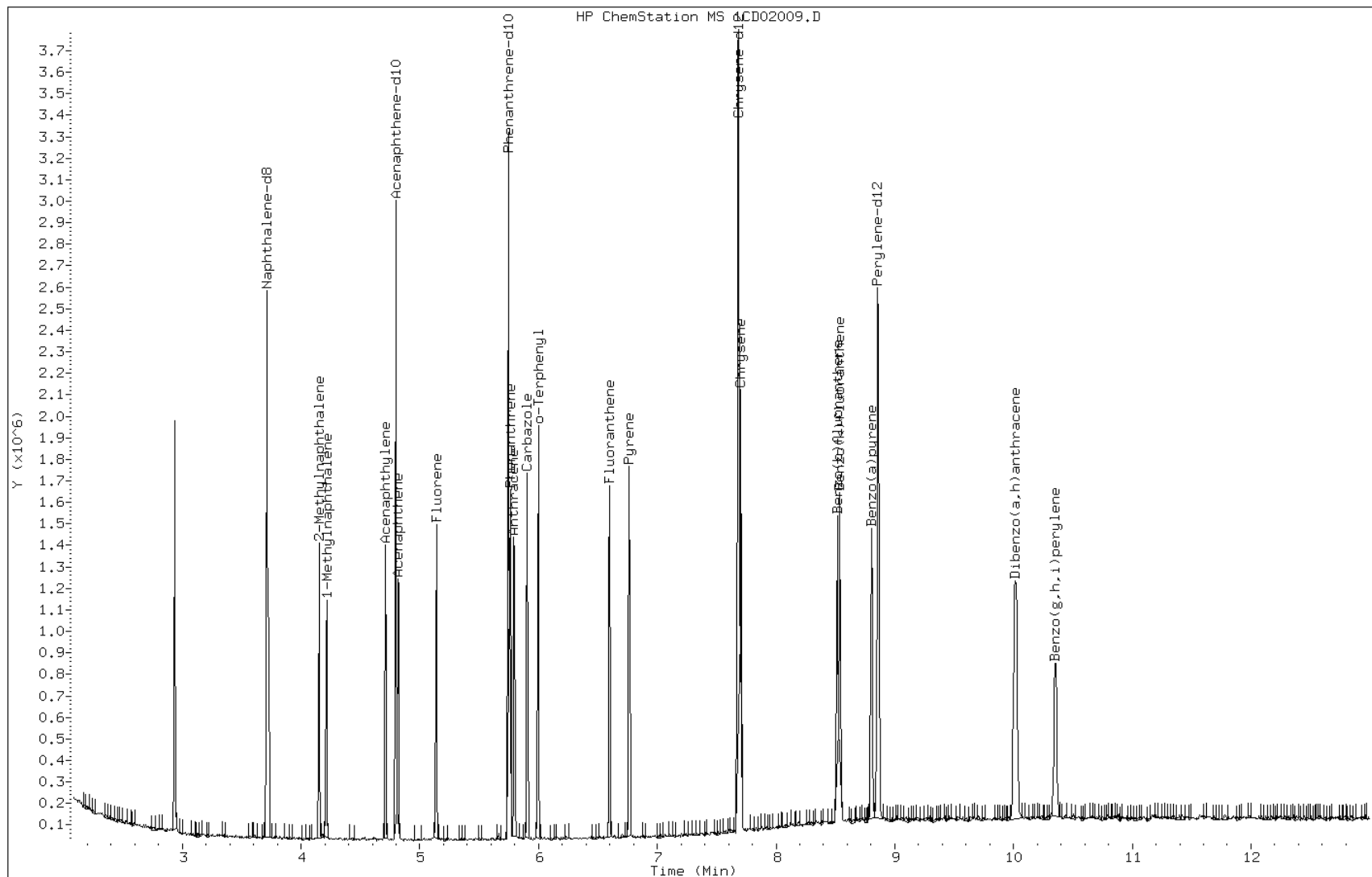
Date: 02-APR-2013 14:39

Client ID:

Instrument: BSMC5973.i

Sample Info: IC5

Operator: SCC

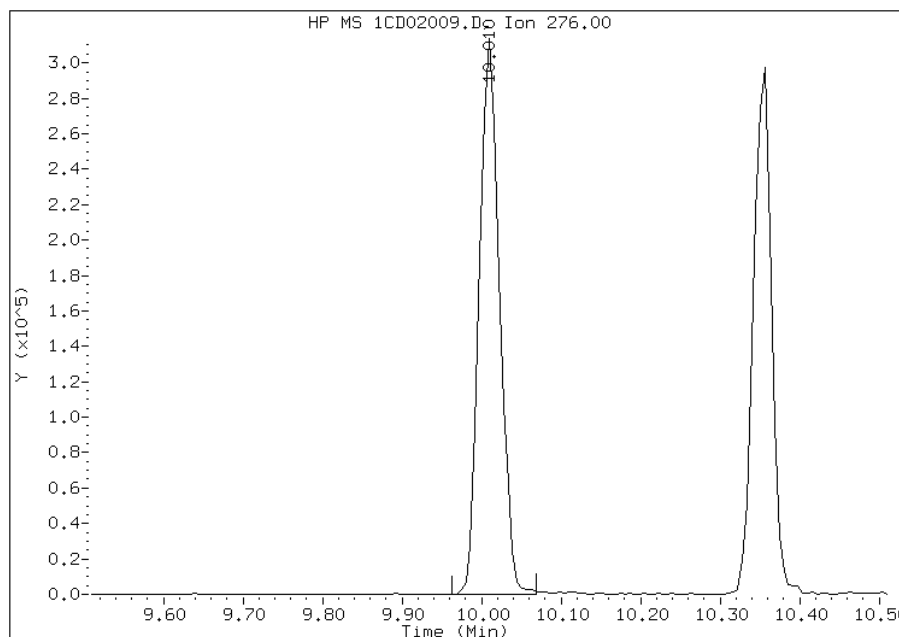


Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

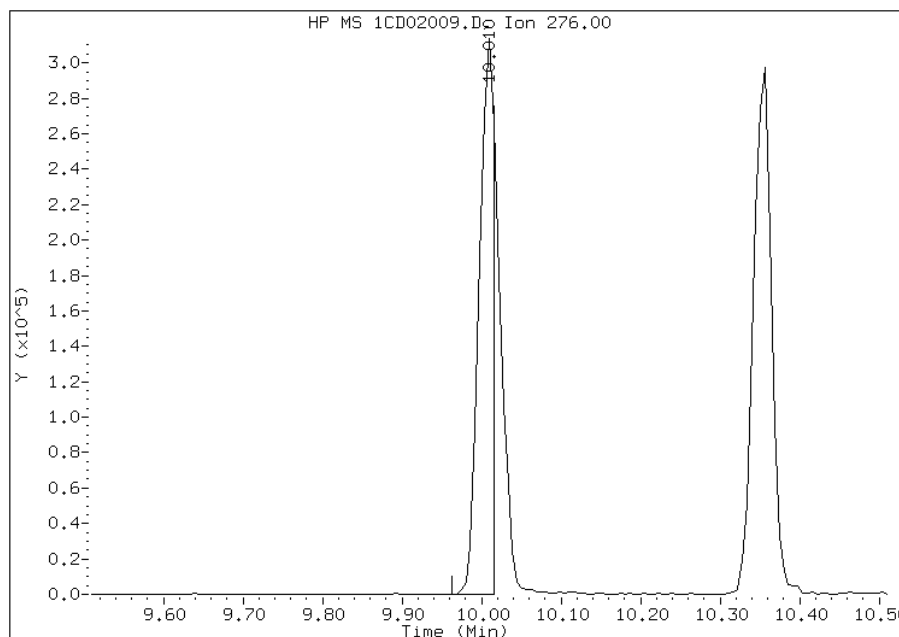
Processing Integration Results

RT: 10.01
Response: 550558
Amount: 32
Conc: 32



Manual Integration Results

RT: 10.01
Response: 412839
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
 Lab Smp Id: IC6
 Inj Date : 02-APR-2013 14:57
 Operator : SCC
 Smp Info : IC6
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
 Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
 Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
 Als bottle: 10 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMC5973.i
 Compound Sublist: pah.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

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

Data File: 1CD02010.D

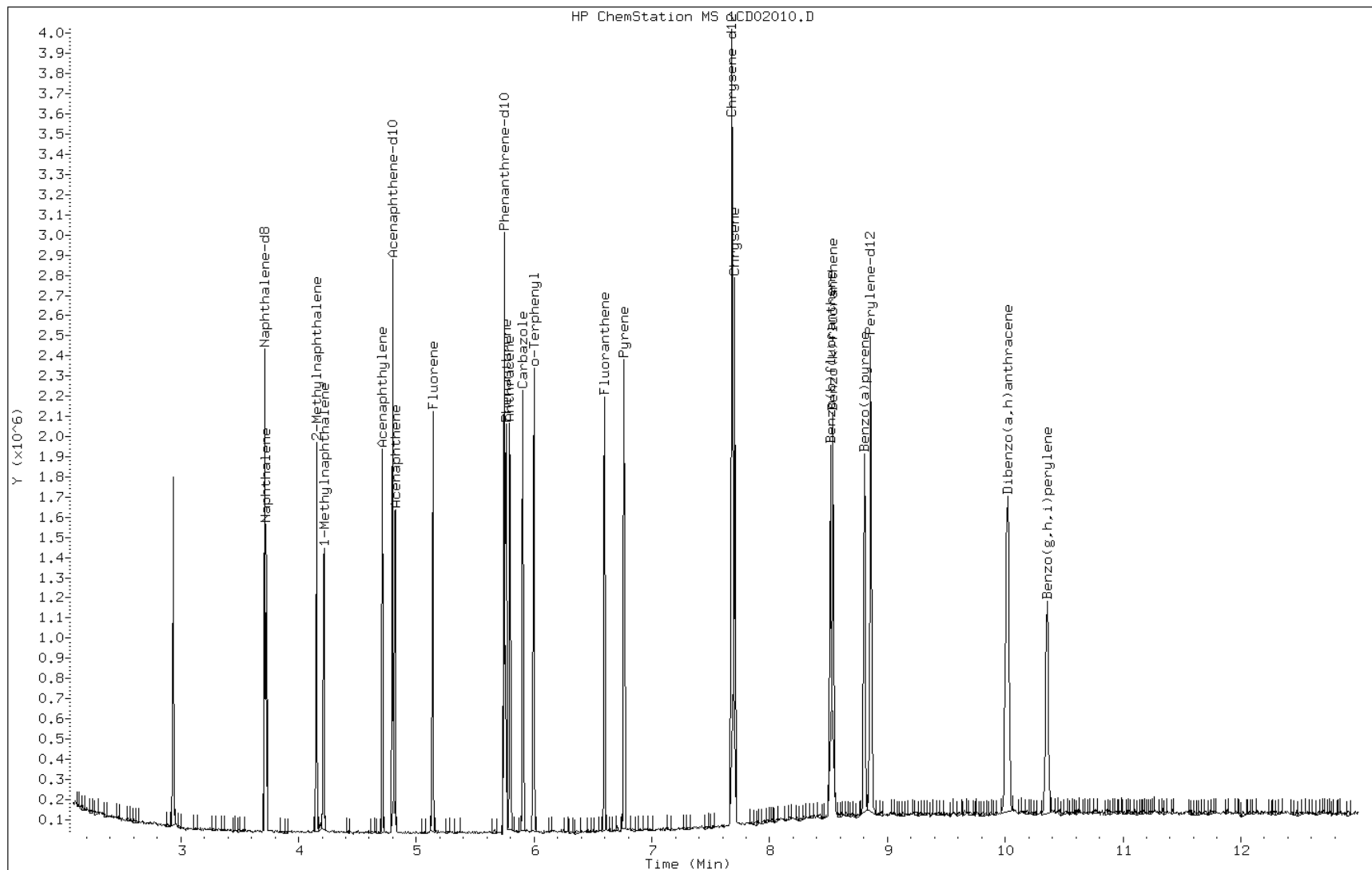
Date: 02-APR-2013 14:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC6

Operator: SCC

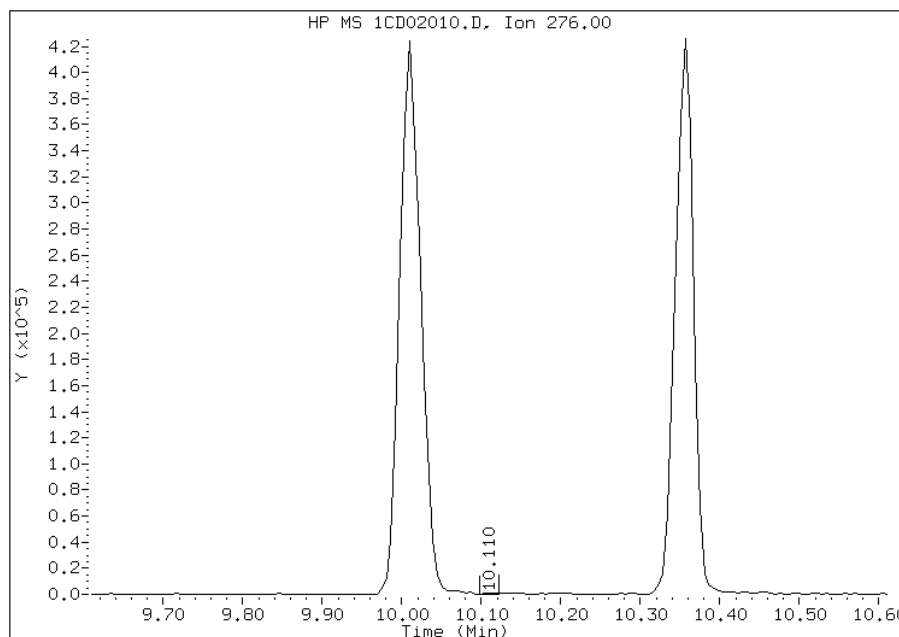


Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

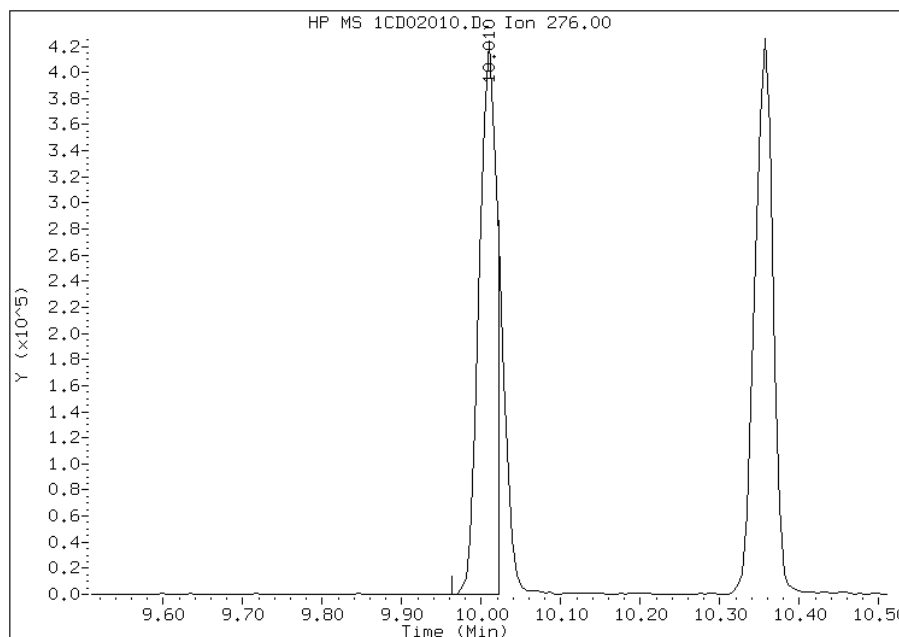
Processing Integration Results

RT: 10.11
Response: 1008
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.01
Response: 655344
Amount: 31
Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
\$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

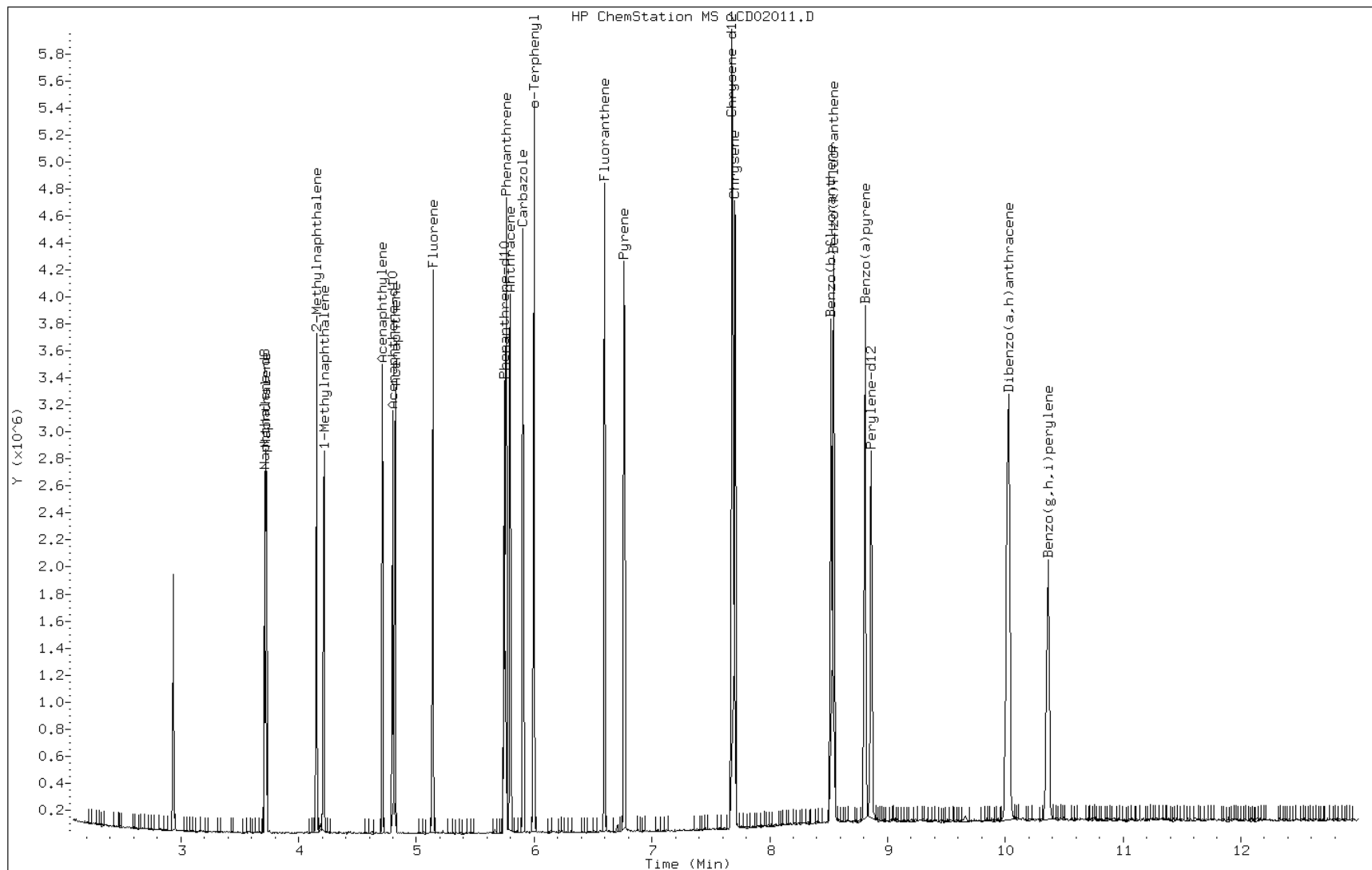
Date: 02-APR-2013 15:15

Client ID:

Instrument: BSMC5973.i

Sample Info: IC7

Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

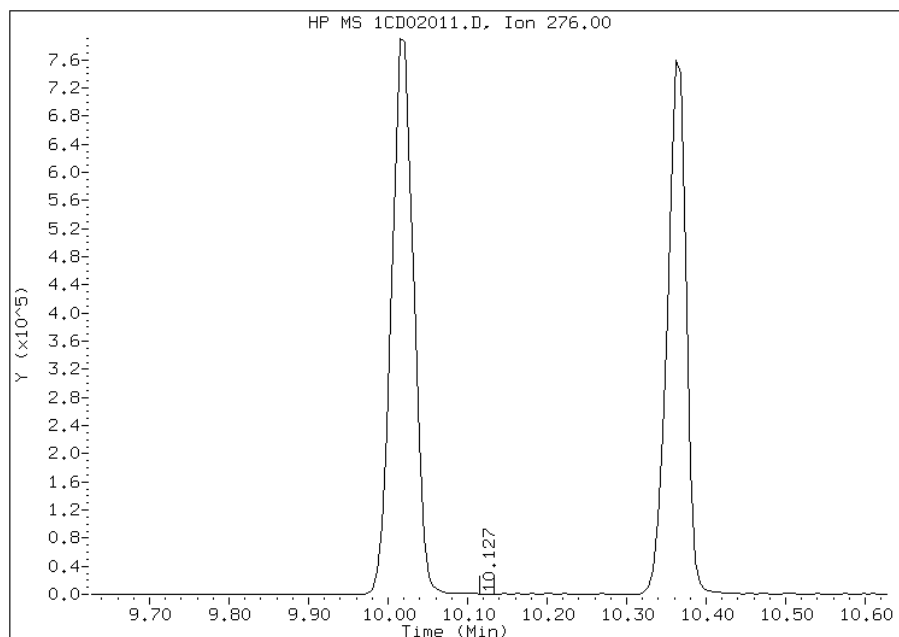
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



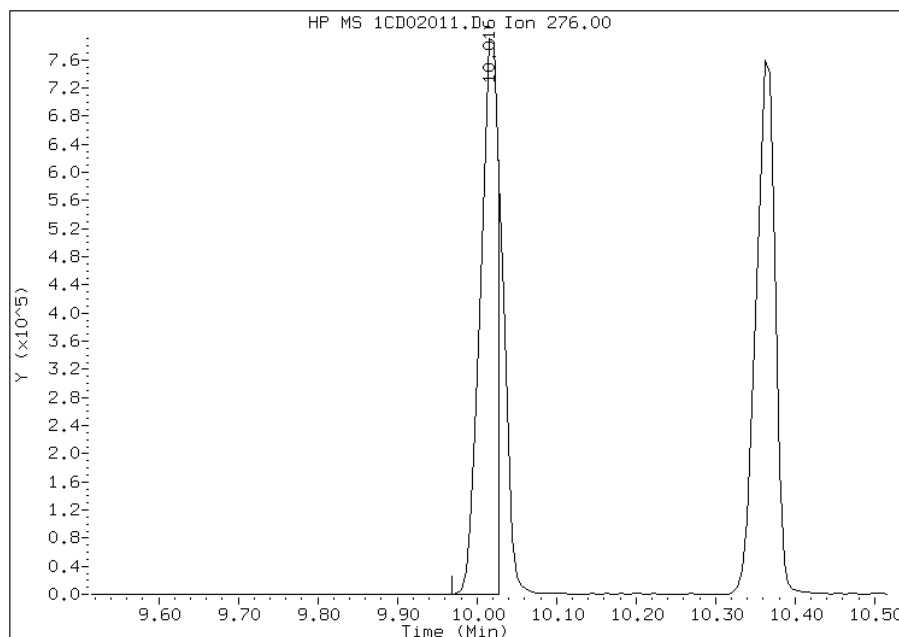
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-88980-1 Analy Batch No.: 136164

SDG No.: 68088980-1

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 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
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.: 680-88980-1 Analy Batch No.: 136164

SDG No.: 68088980-1

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 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
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.: 680-88980-1 Analy Batch No.: 136164

SDG No.: 68088980-1

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.: 680-88980-1 Analy Batch No.: 136164

SDG No.: 68088980-1

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 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
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
 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

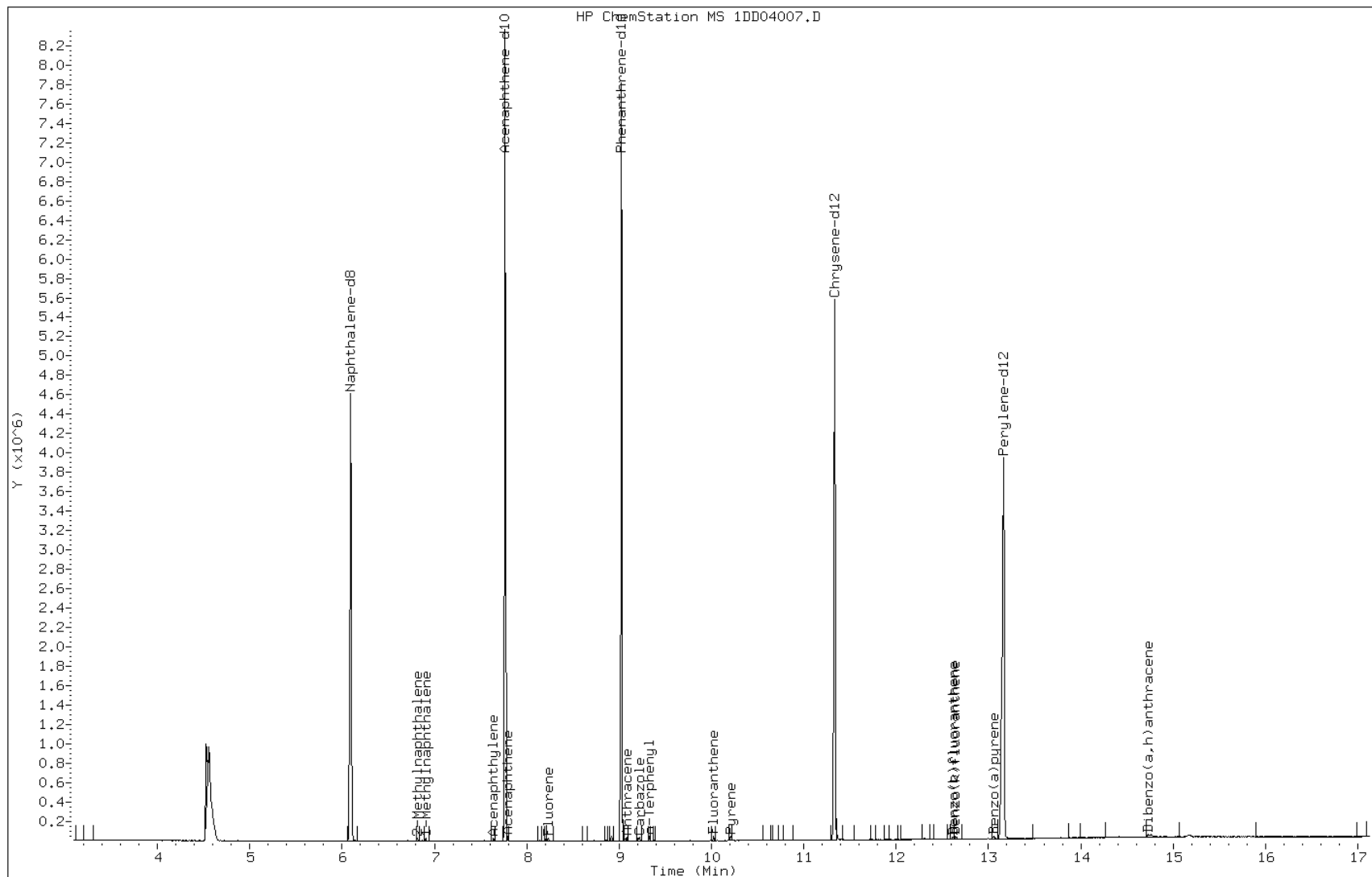
Date: 04-APR-2013 13:49

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

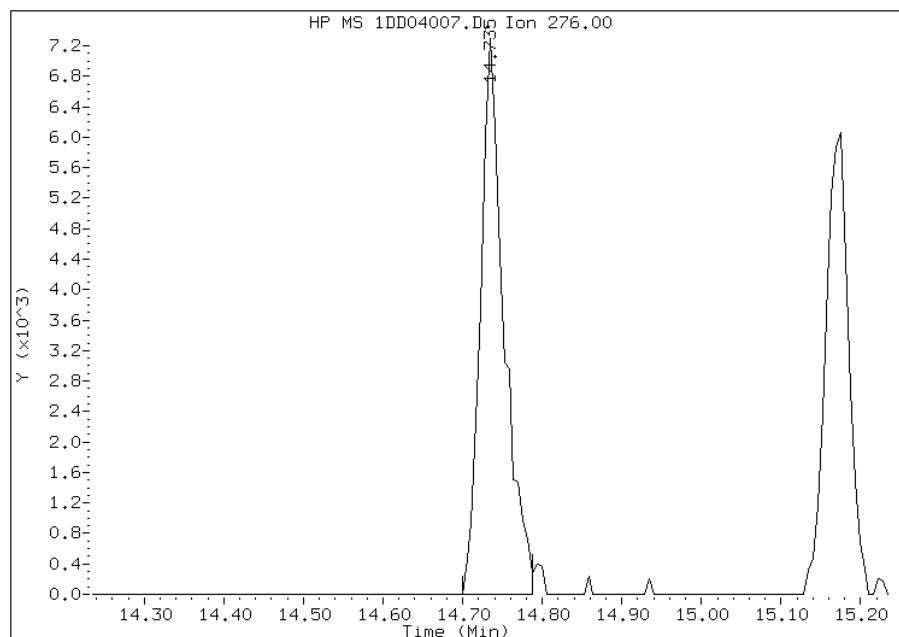
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



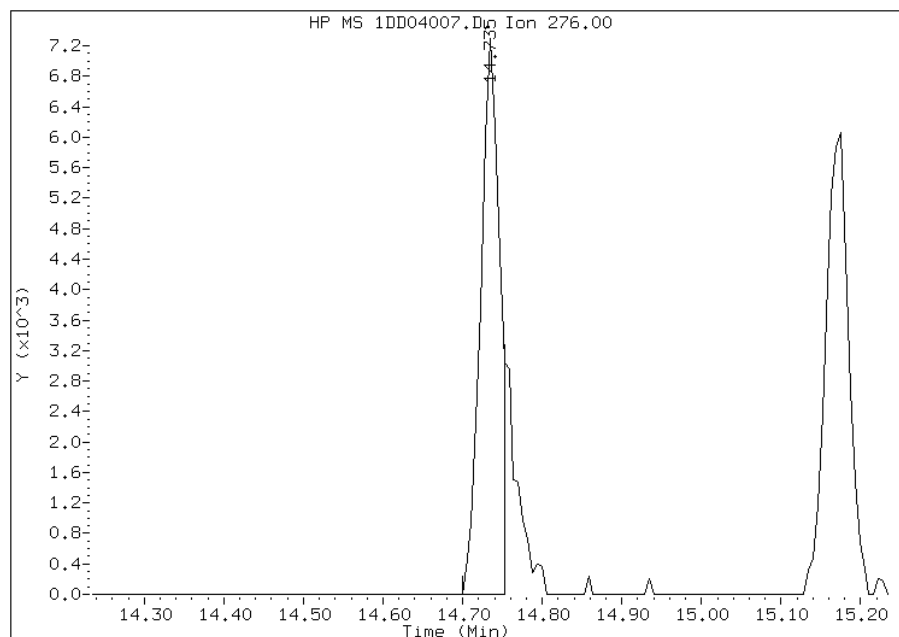
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



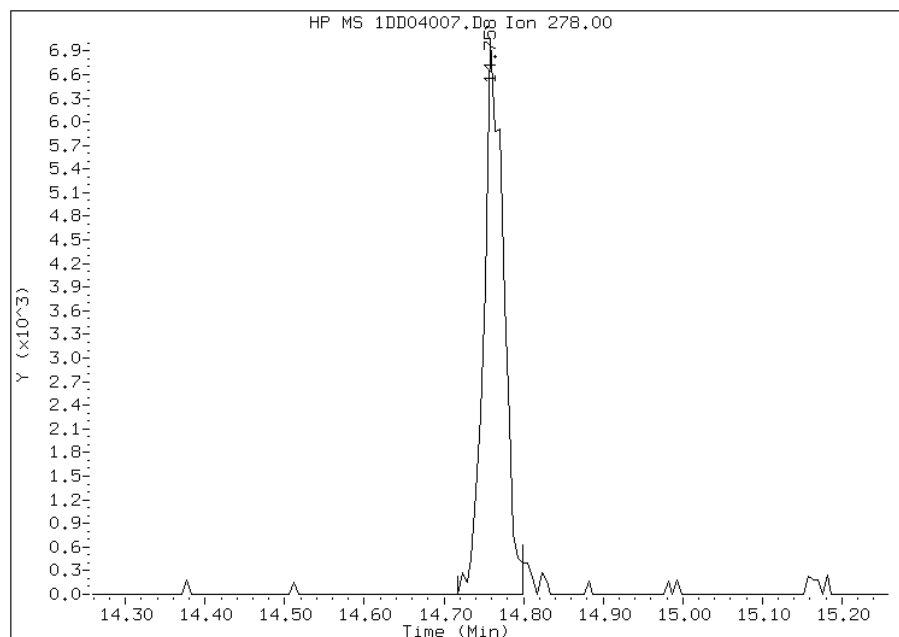
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

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

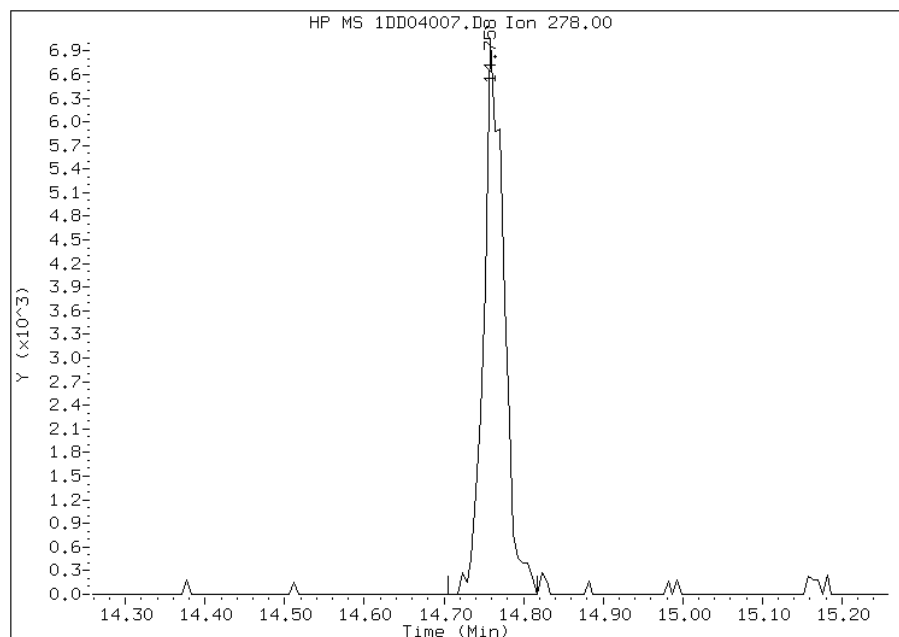
Processing Integration Results

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
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
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMSD.i
Compound Sublist: pah.sub

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

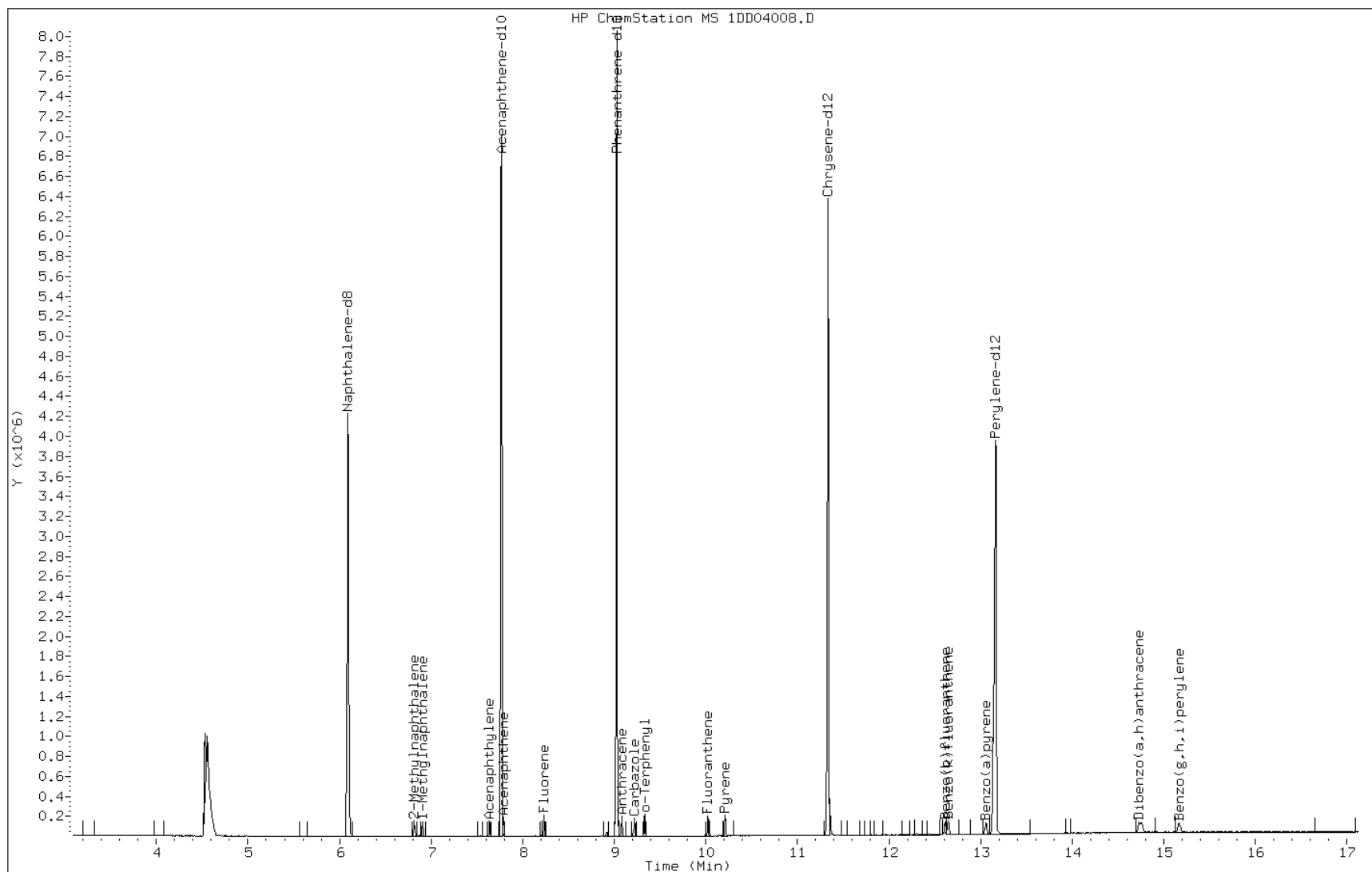
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

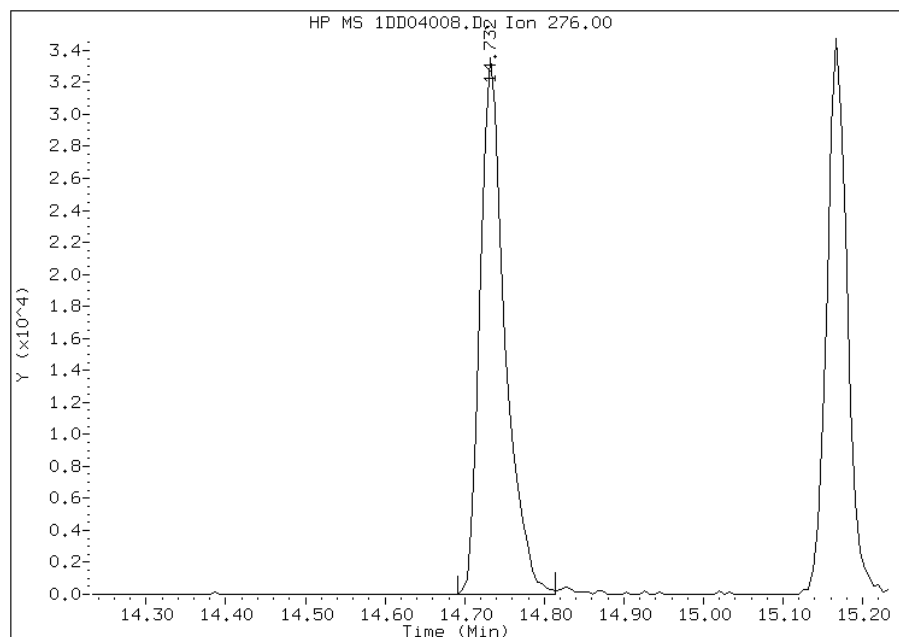


Manual Integration Report

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

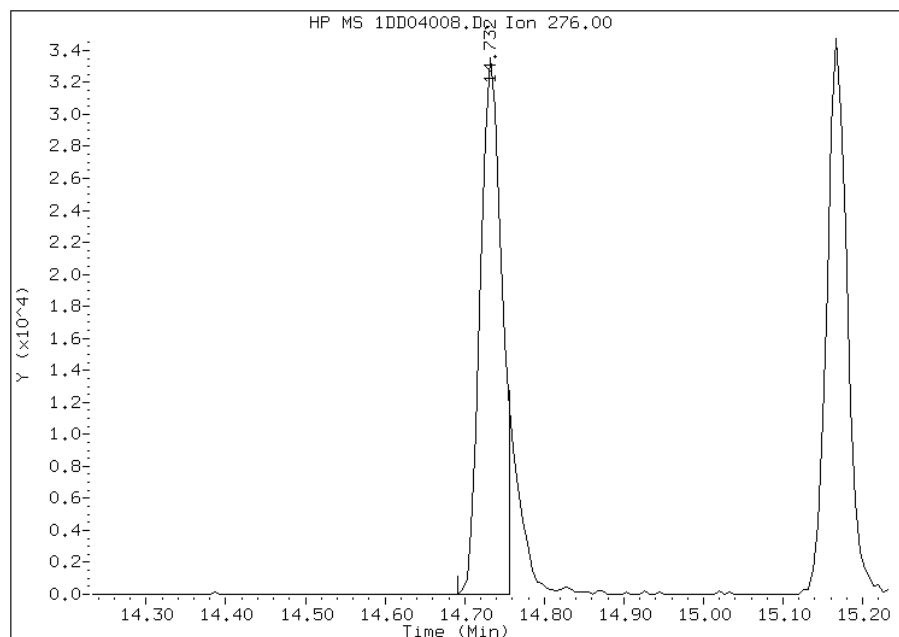
Processing Integration Results

RT: 14.73
Response: 72512
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.73
Response: 62840
Amount: 1
Conc: 1



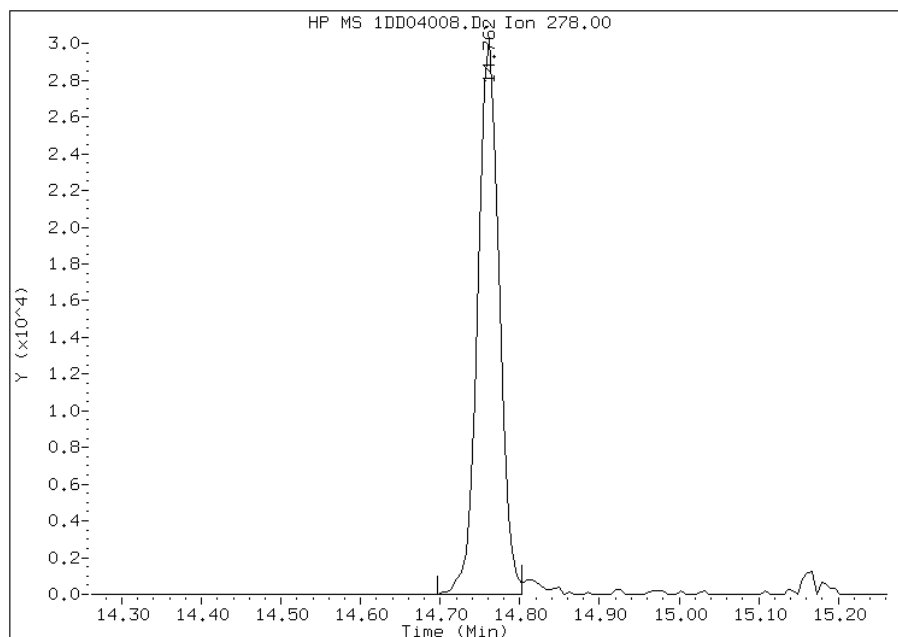
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

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

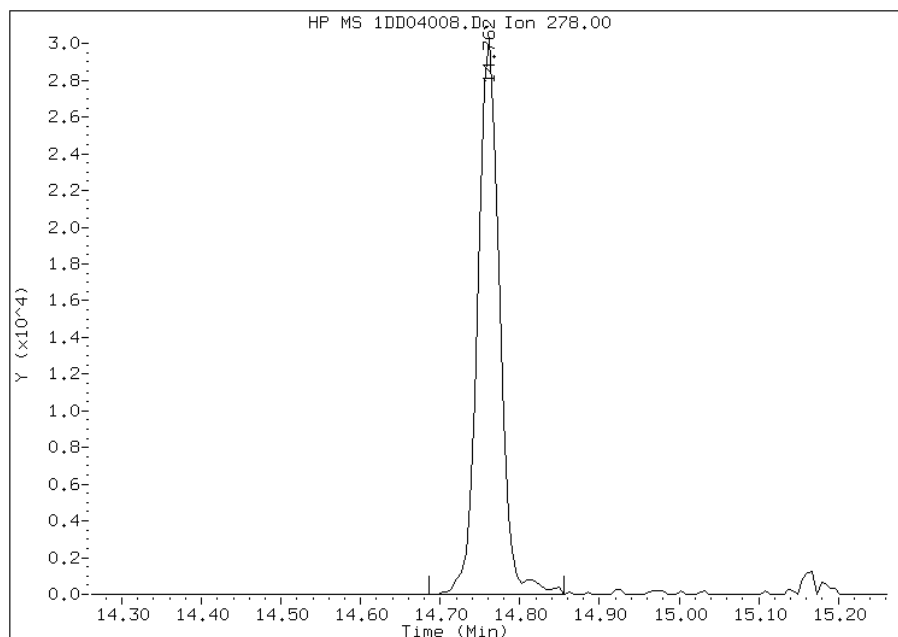
Processing Integration Results

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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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

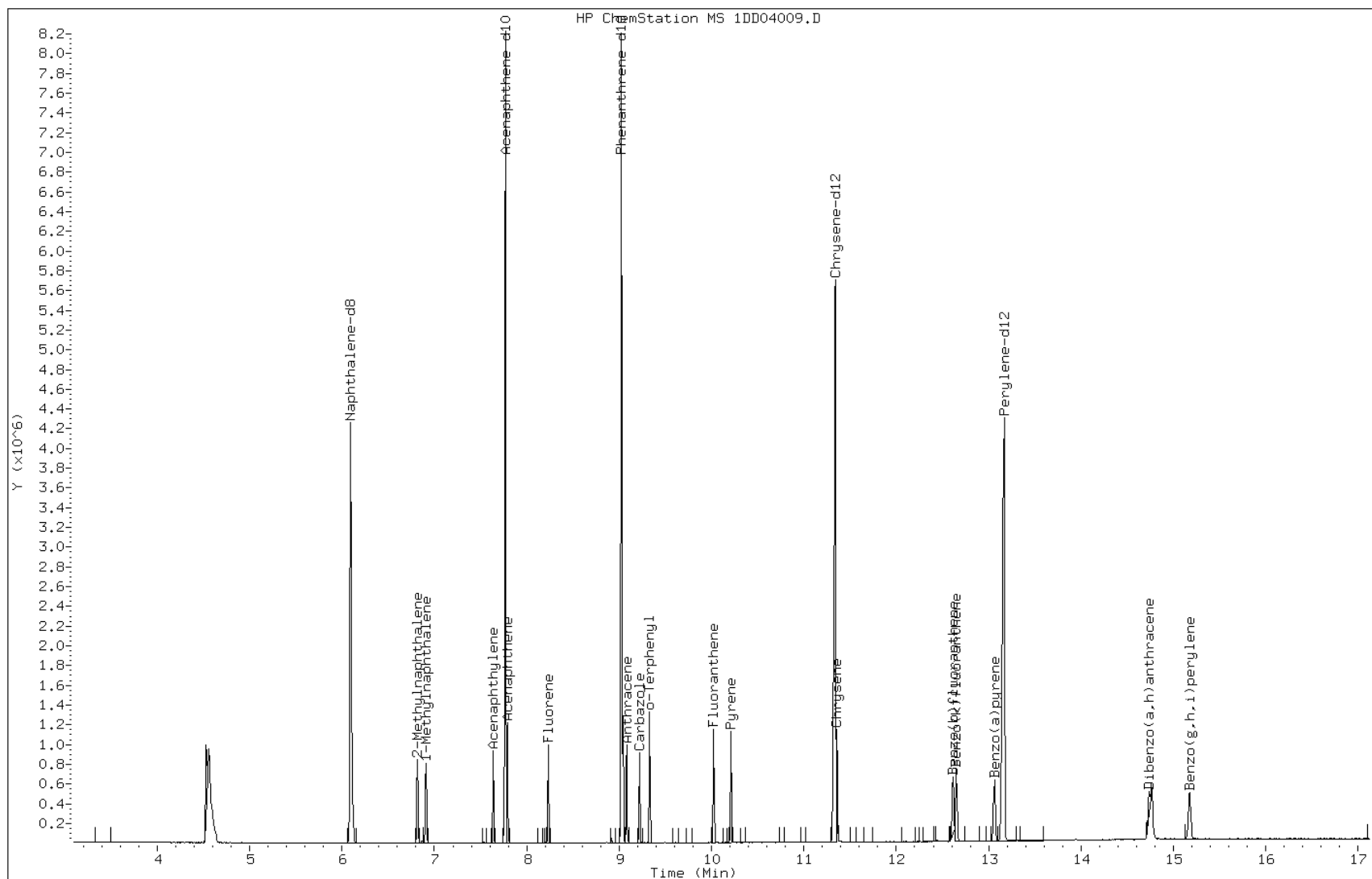
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

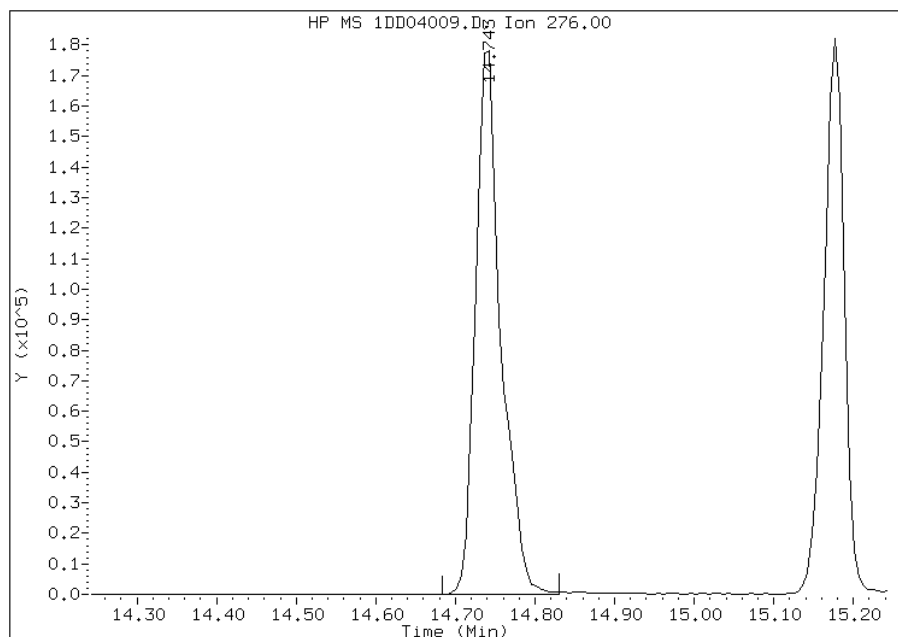


Manual Integration Report

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

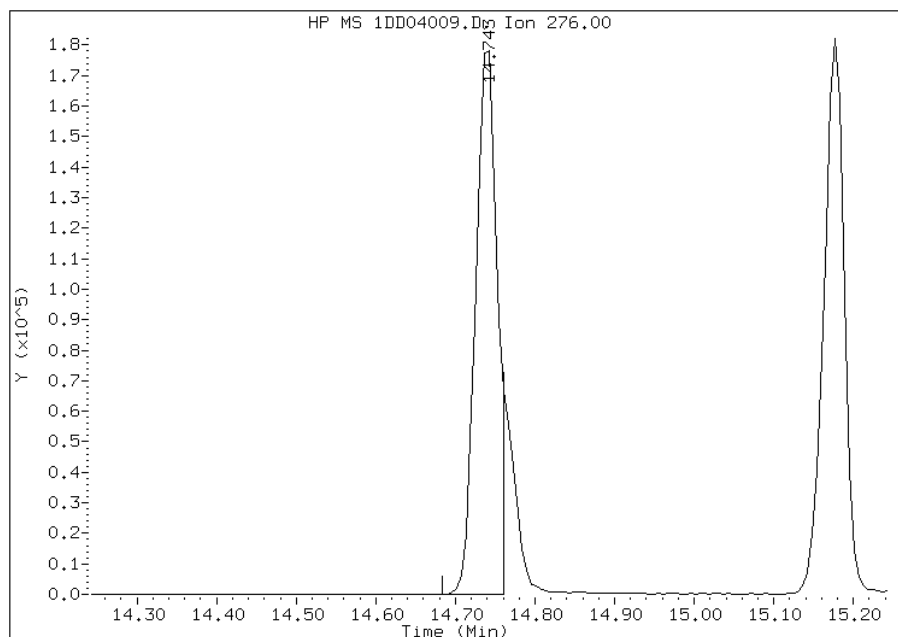
Processing Integration Results

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
 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

							AMOUNTS	
QUANT SIG							CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(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

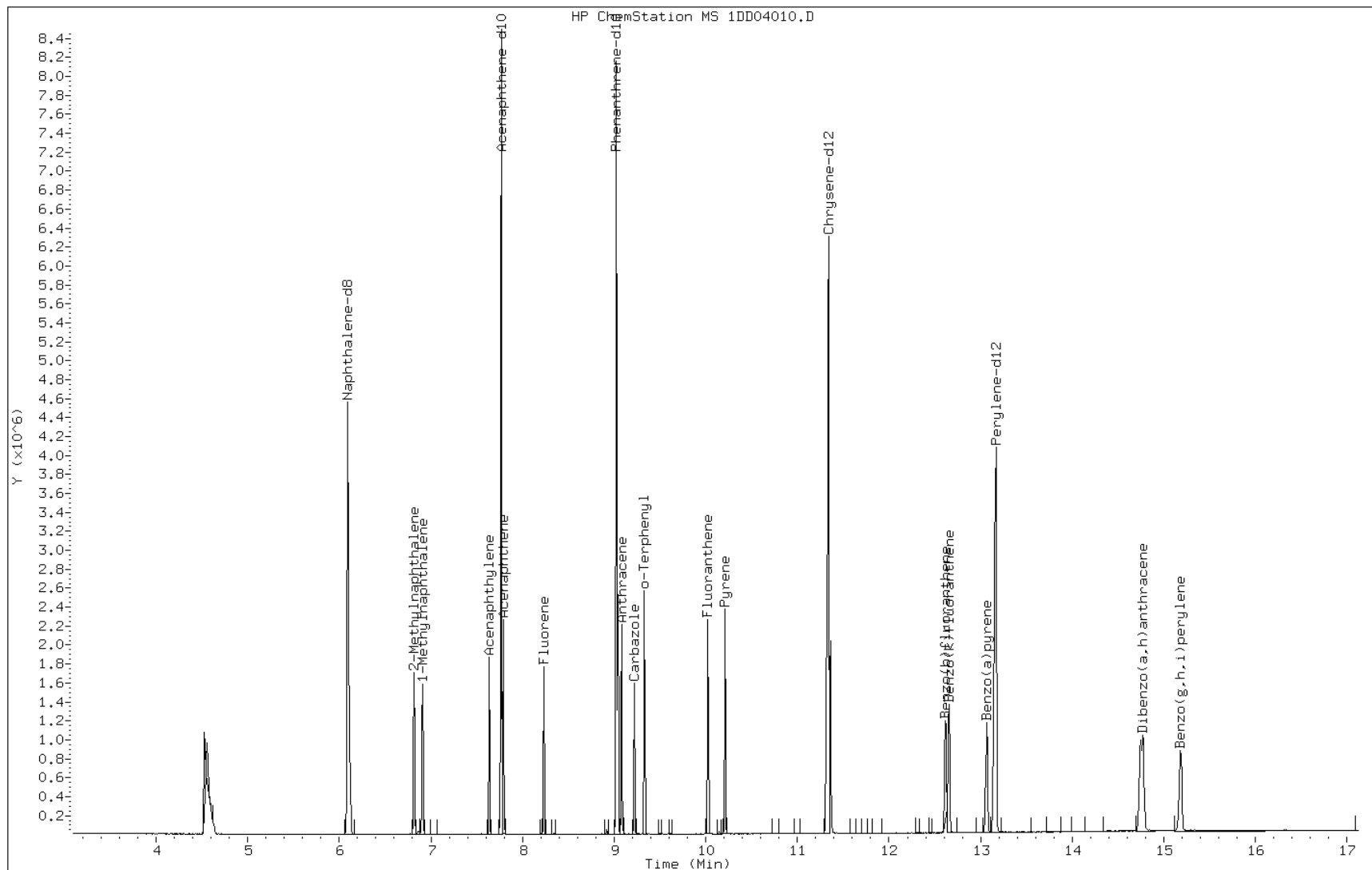
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

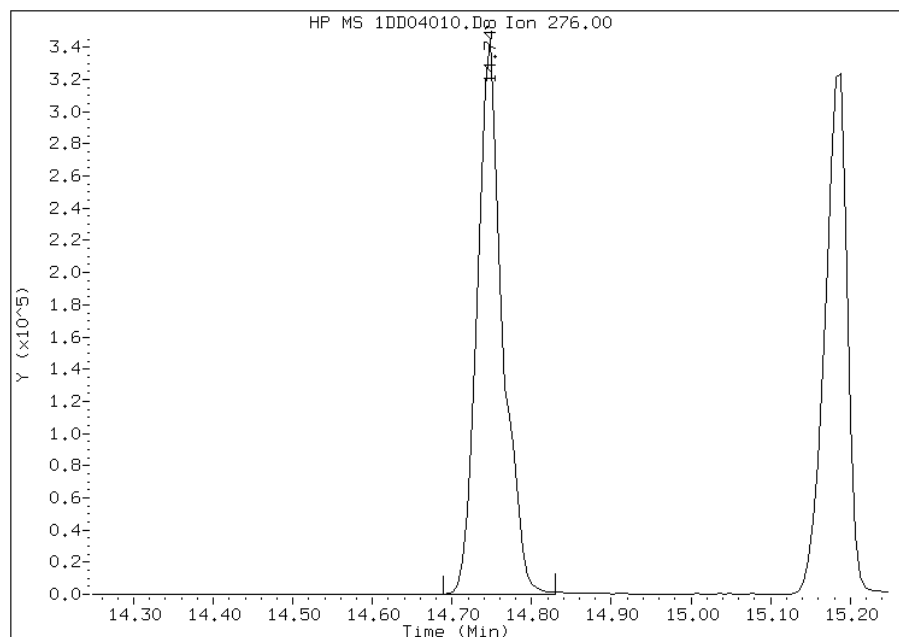


Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

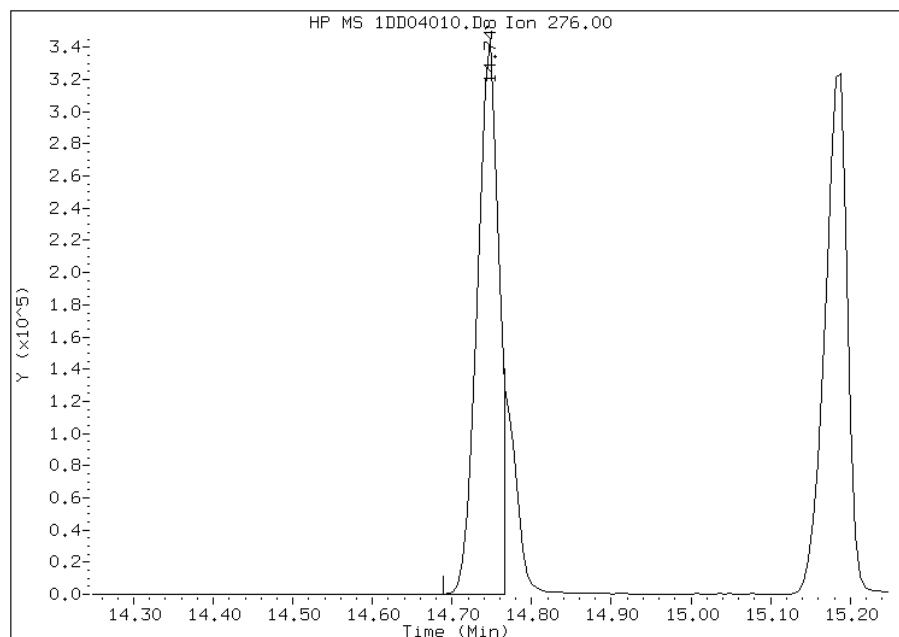
Processing Integration Results

RT: 14.75
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-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
 Lab Smp Id: ICIS-1531401
 Inj Date : 04-APR-2013 15:19
 Operator : SCC
 Smp Info : ICIS-1531401
 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 14:57 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	
			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)	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

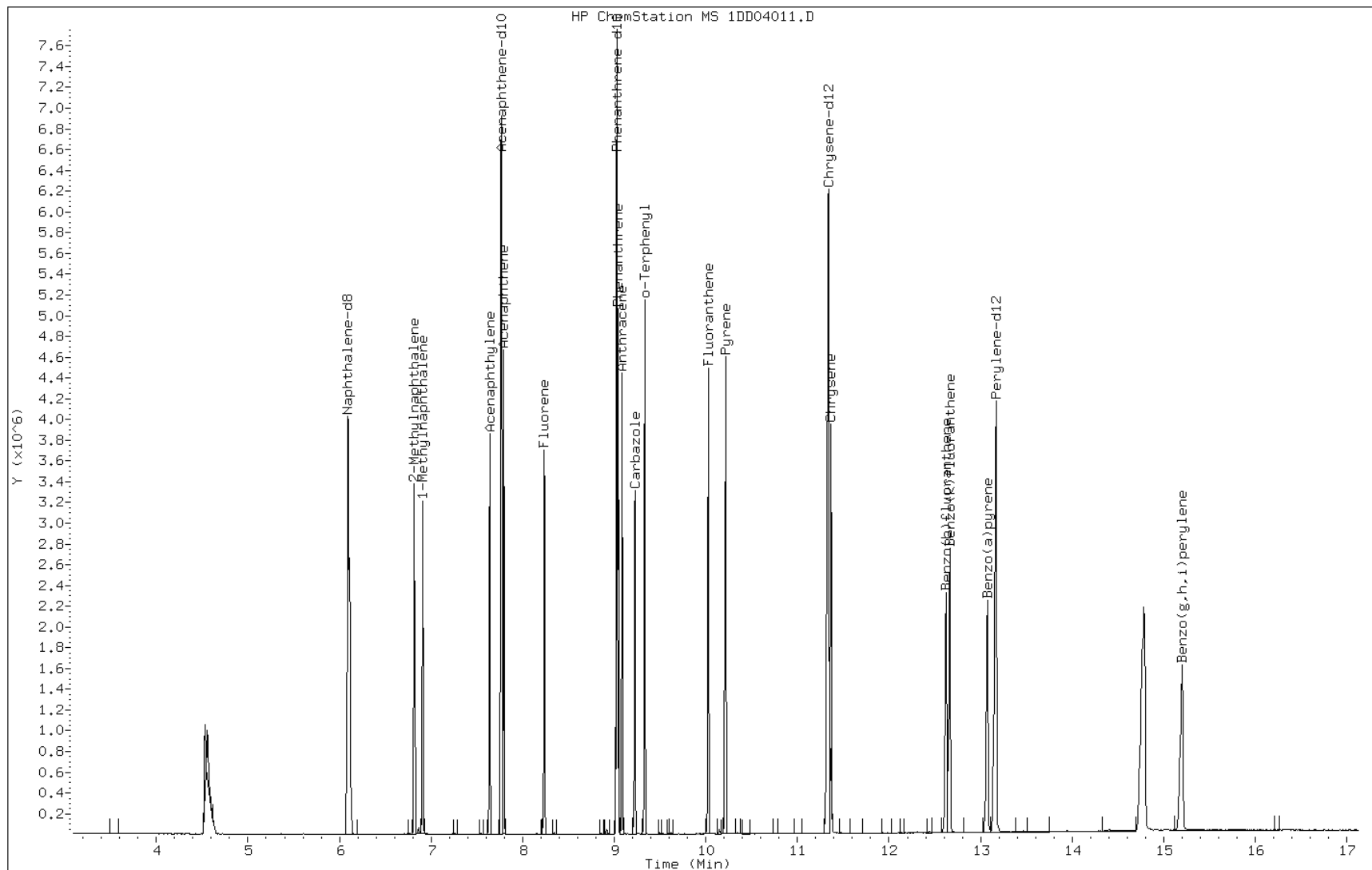
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

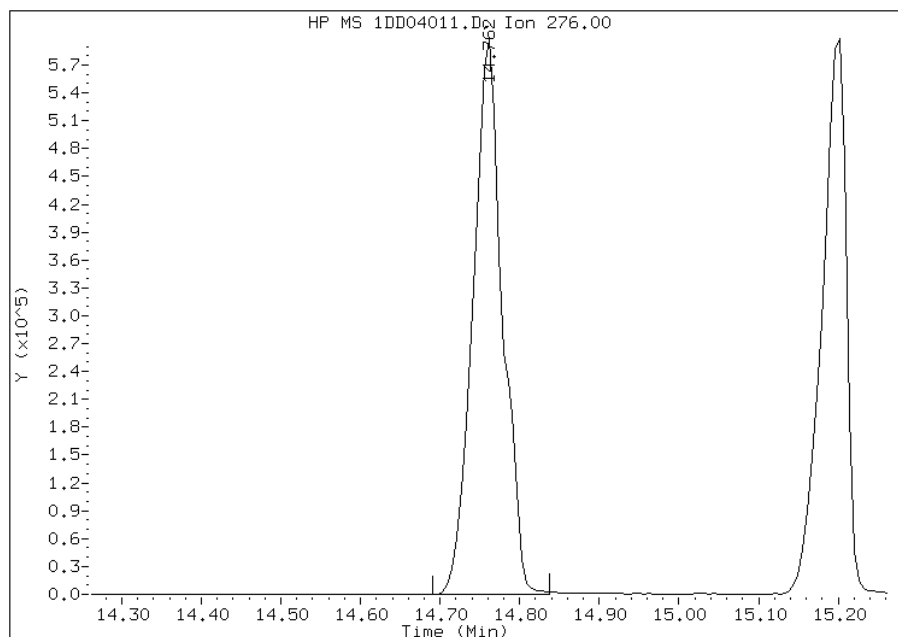


Manual Integration Report

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

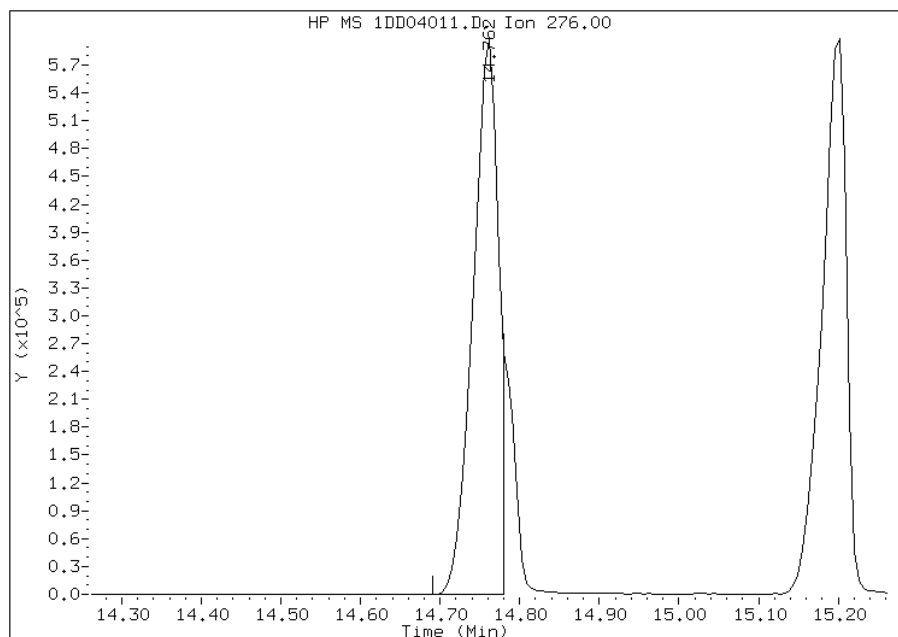
Processing Integration Results

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

Semivolatiles 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
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
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
Target Version: 4.14
Processing Host: TAM1000

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(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

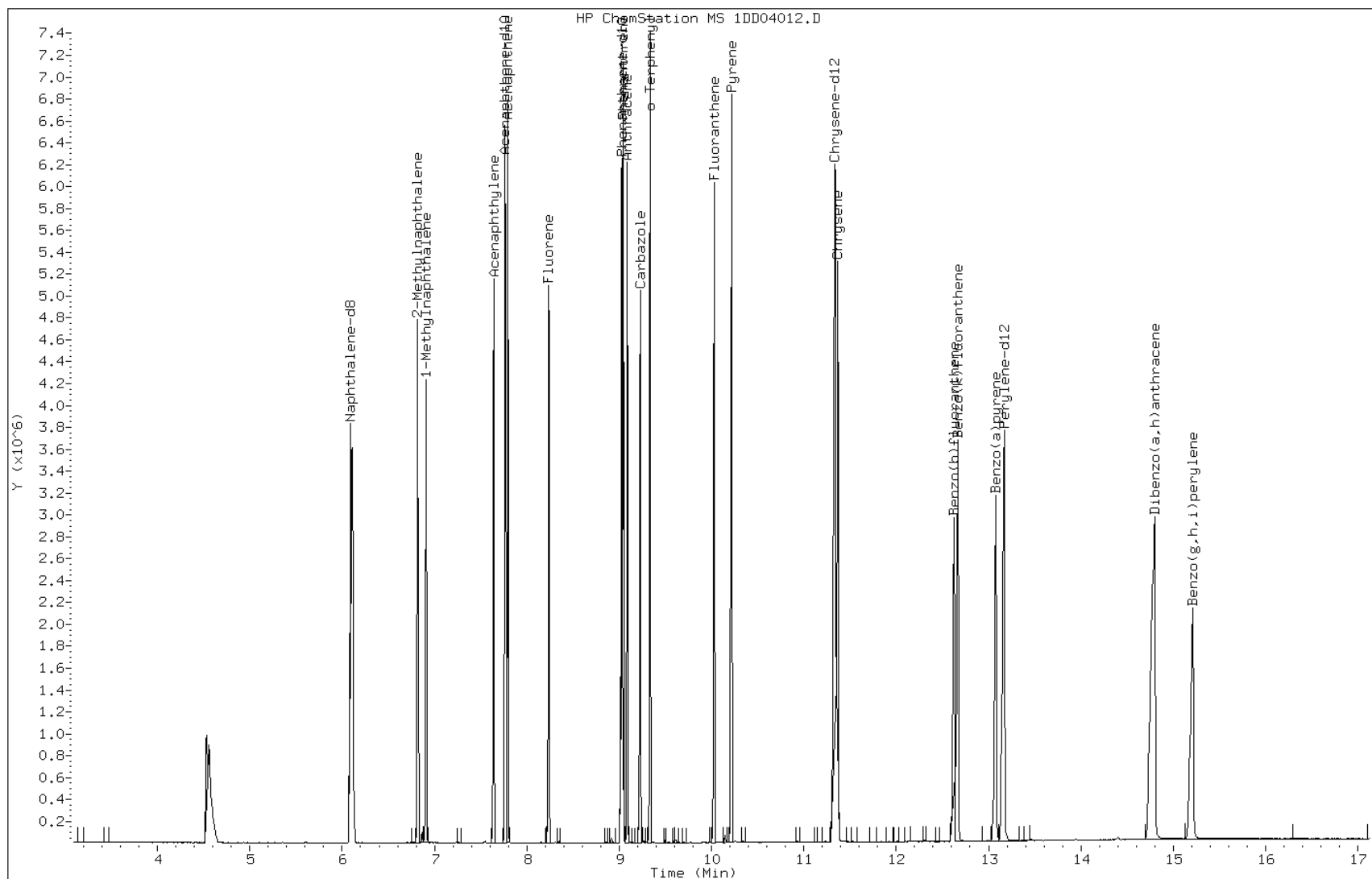
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

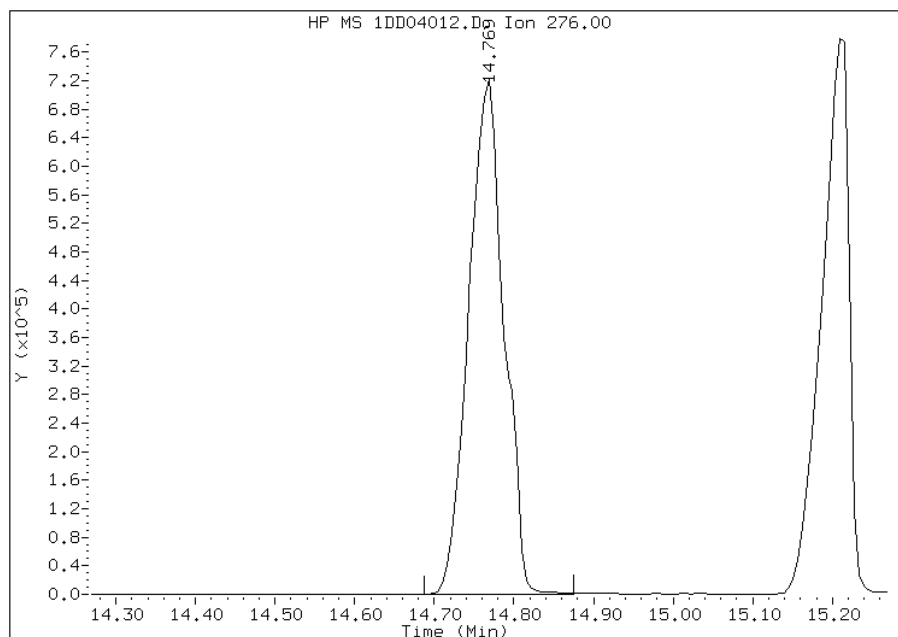


Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

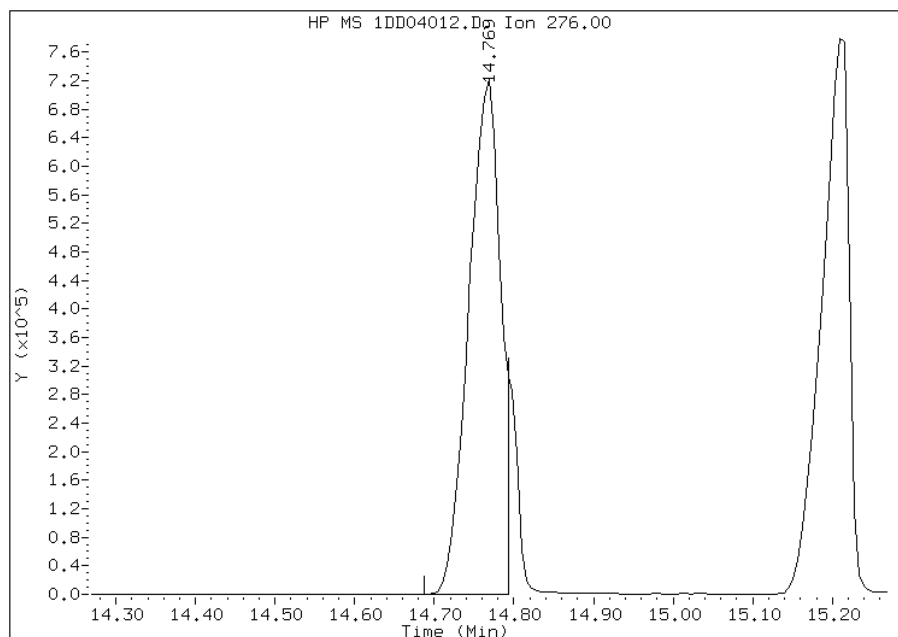
Processing Integration Results

RT: 14.77
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
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
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						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

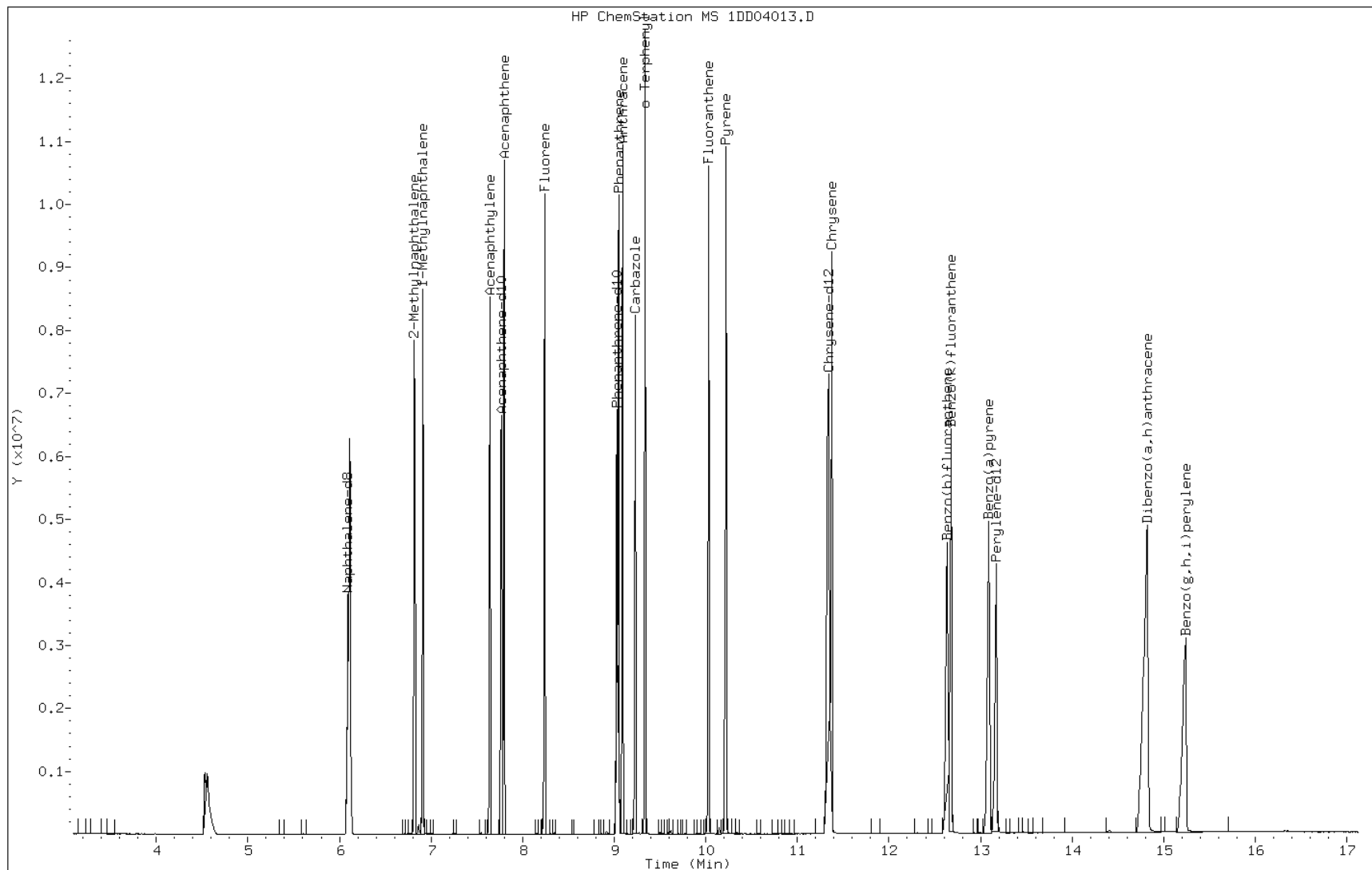
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

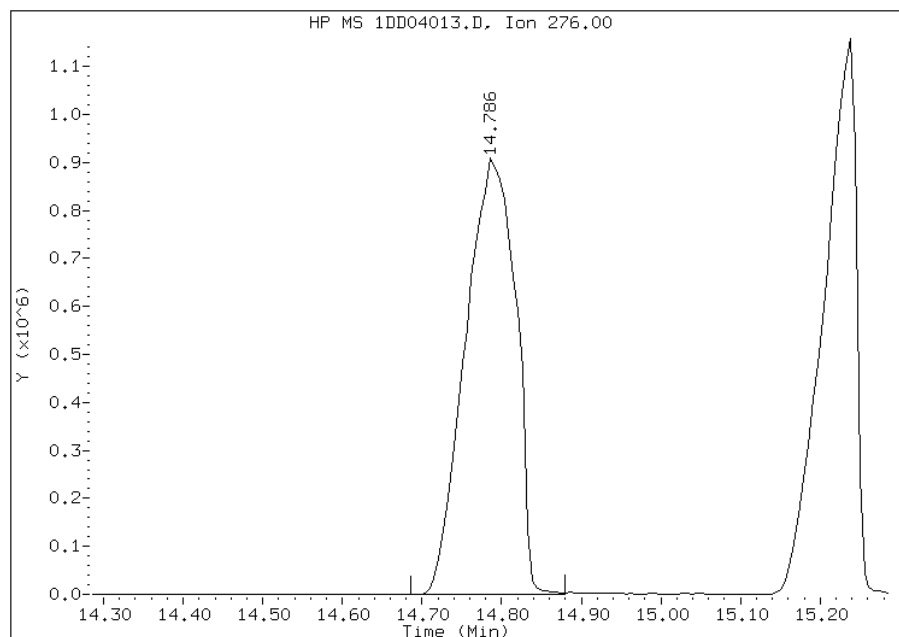


Manual Integration Report

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

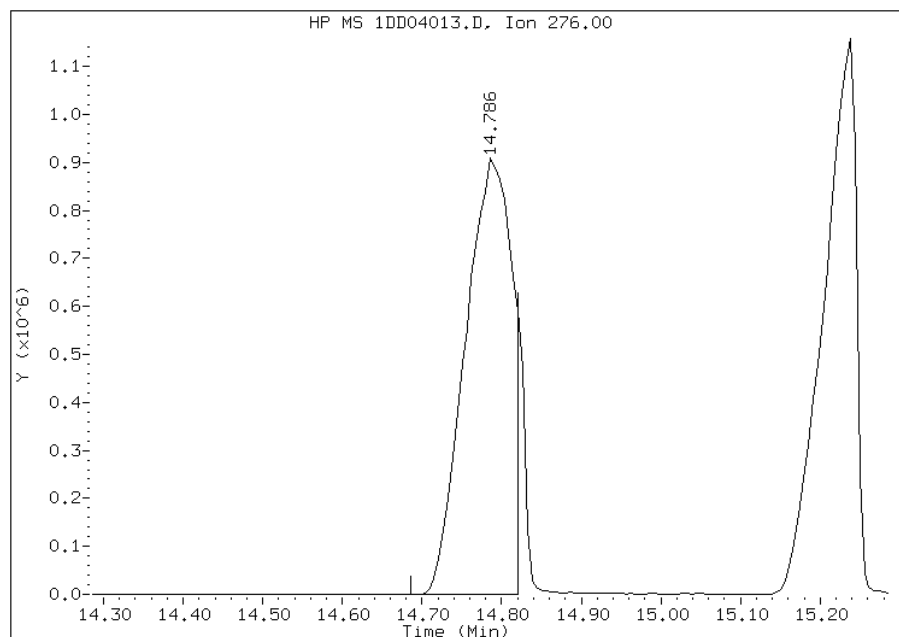
Processing Integration Results

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.: 680-88980-1
 SDG No.: 68088980-1
 Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/l)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000	
*	6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
*	10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
\$	14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
*	18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
*	23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
	2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
	3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
	4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
	5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
	7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
	9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
	11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
	12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
	13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
	15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
	16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
	17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====		=====	=====
19 Chrysene	228	7.704	7.710	(1.002)	544600		15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649		15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474		16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495		15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166		17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427		18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199		16.6490	16.6490

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD02012.D

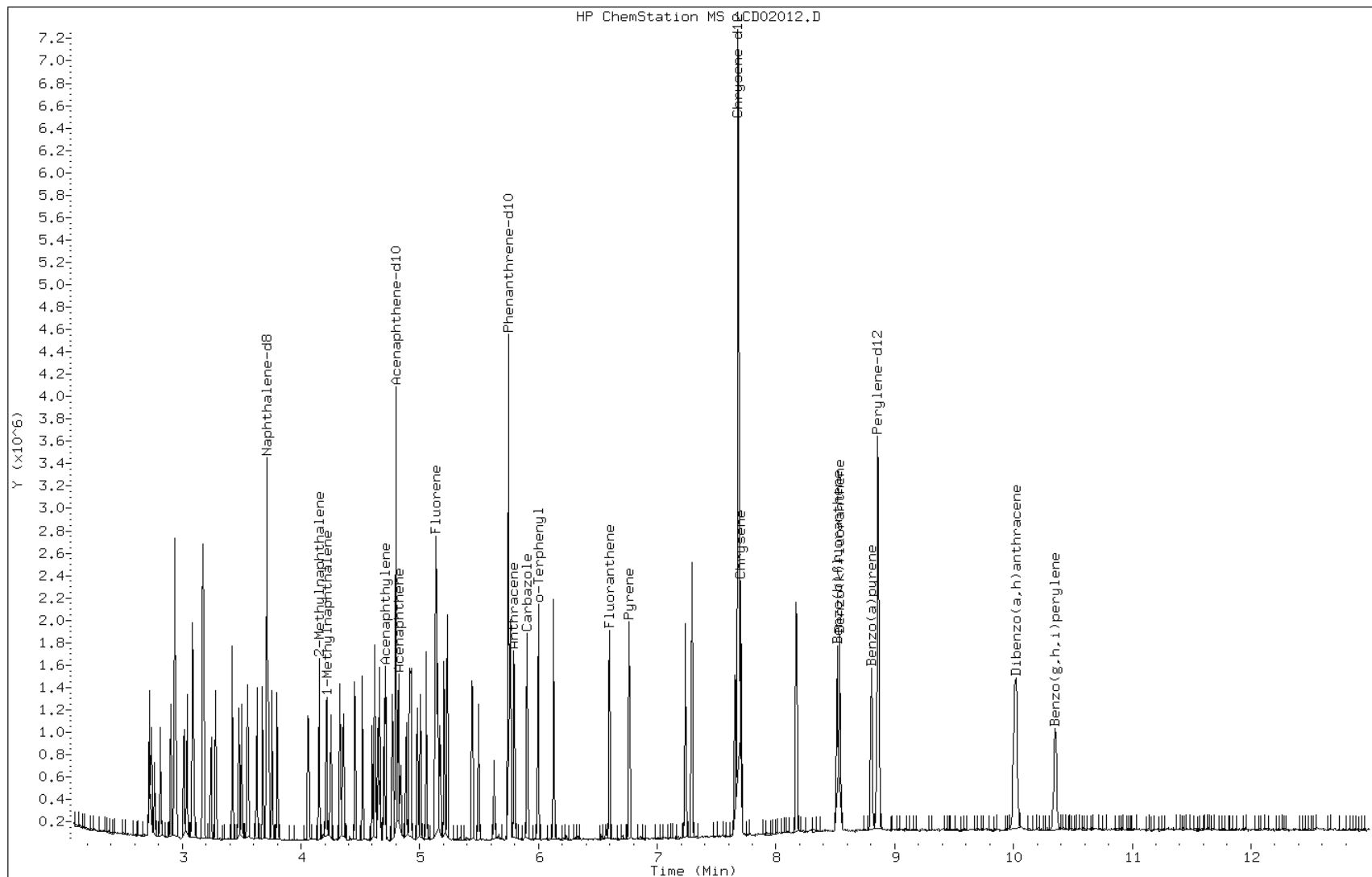
Date: 02-APR-2013 15:34

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

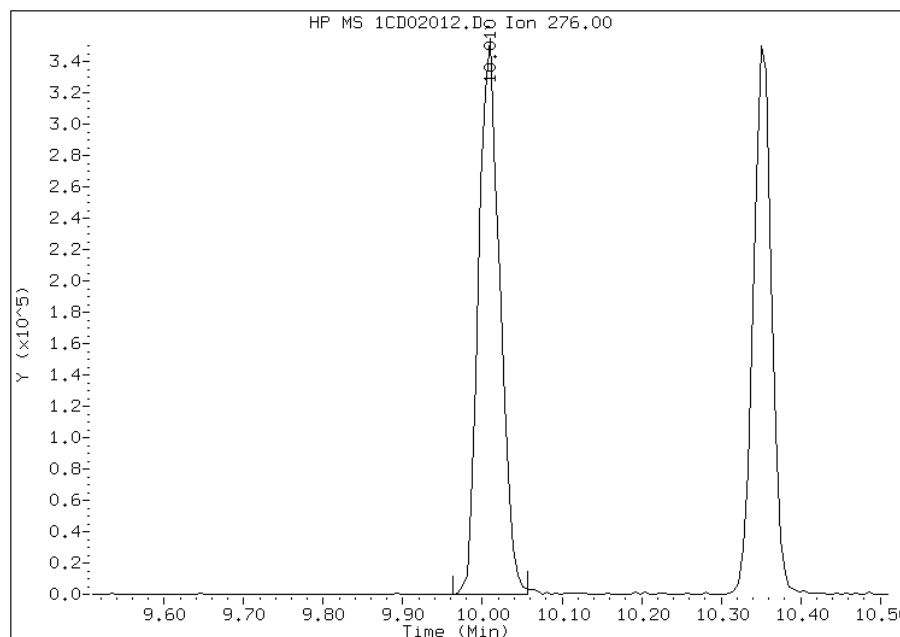


Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

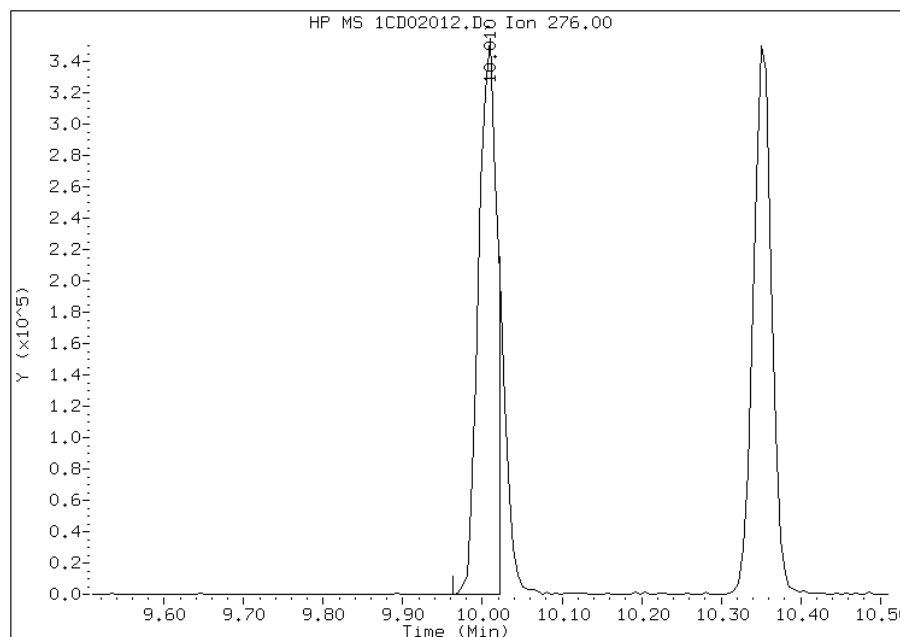
Processing Integration Results

RT: 10.01
Response: 653584
Amount: 20
Conc: 20



Manual Integration Results

RT: 10.01
Response: 571166
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
 SDG No.: 68088980-1
 Lab Sample ID: CCVIS 660-136309/3 Calibration Date: 04/10/2013 12:10
 Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/02/2013 15:15
 Lab File ID: 1CD10003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.996	0.0000	19400	20000	-3.1	20.0
2-Methylnaphthalene	Ave	0.6994	0.6277	0.0000	18000	20000	-10.2	20.0
1-Methylnaphthalene	Ave	0.6293	0.6353	0.0000	20200	20000	1.0	20.0
Acenaphthylene	Ave	1.656	1.700	0.0000	20500	20000	2.7	20.0
Acenaphthene	Lin	1.025	1.110	0.0000	21700	20000	8.3	20.0
Fluorene	Ave	1.367	1.302	0.0000	19100	20000	-4.7	20.0
Phenanthrene	Ave	1.165	1.213	0.0000	20800	20000	4.2	20.0
Anthracene	Ave	1.181	1.261	0.0000	21300	20000	6.7	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.335	0.0000	20800	20000	3.8	20.0
Pyrene	Ave	1.108	1.109	0.0000	20000	20000	0.0	20.0
Benzo[a]anthracene	Lin	1.278	1.088	0.0000	18900	20000	-5.4	20.0
Chrysene	Ave	1.140	1.090	0.0000	19100	20000	-4.4	20.0
Benzo[b]fluoranthene	Ave	1.131	1.154	0.0000	20400	20000	2.0	20.0
Benzo[k]fluoranthene	Ave	1.094	1.129	0.0000	20600	20000	3.2	20.0
Benzo[a]pyrene	Ave	1.065	1.093	0.0000	20500	20000	2.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8567	0.0000	16900	20000	-15.3	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9587	0.0000	20500	20000	2.6	20.0
Benzo[g,h,i]perylene	Ave	1.032	1.029	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Lin	0.6233	0.6564	0.0000	20800	20000	4.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 10-APR-2013 12:10
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10003.D
 Meth Date : 10-Apr-2013 12:25 cantins
 Cal Date : 02-APR-2013 15:15
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000

Inst ID: BSMC5973.i

Quant Type: ISTD

Cal File: 1CD02011.D

Continuing Calibration Sample

Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.680	3.680	(1.000)	324897	40.0000	
* 6 Acenaphthene-d10	164	4.768	4.768	(1.000)	222702	40.0000	
* 10 Phenanthrene-d10	188	5.710	5.710	(1.000)	427547	40.0000	
\$ 14 o-Terphenyl	230	5.963	5.963	(1.044)	140327	20.0000	20.8335
* 18 Chrysene-d12	240	7.645	7.645	(1.000)	562910	40.0000	(H)
* 23 Perylene-d12	264	8.809	8.809	(1.000)	541225	40.0000	(H)
2 Naphthalene	128	3.692	3.692	(1.003)	161745	20.0000	19.3824
3 2-Methylnaphthalene	142	4.121	4.121	(1.120)	101969	20.0000	17.9506
4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	103201	20.0000	20.1905
5 Acenaphthylene	152	4.680	4.680	(0.981)	189256	20.0000	20.5331
7 Acenaphthene	154	4.786	4.786	(1.004)	123651	20.0000	21.6598
9 Fluorene	166	5.104	5.104	(1.070)	145008	20.0000	19.0540
11 Phenanthrene	178	5.727	5.727	(1.003)	259408	20.0000	20.8323
12 Anthracene	178	5.763	5.763	(1.009)	269479	20.0000	21.3485
13 Carbazole	167	5.868	5.868	(1.028)	220592	20.0000	20.3977
15 Fluoranthene	202	6.557	6.557	(1.148)	285476	20.0000	20.7591
16 Pyrene	202	6.727	6.727	(0.880)	311994	20.0000	20.0085(H)
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	306247	20.0000	18.9119(H)
19 Chrysene	228	7.668	7.668	(1.003)	306644	20.0000	19.1168(H)
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	312222	20.0000	20.4054(H)
21 Benzo(k)fluoranthene	252	8.498	8.498	(0.965)	305560	20.0000	20.6477(H)
22 Benzo(a)pyrene	252	8.756	8.756	(0.994)	295893	20.0000	20.5403(H)
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	231826	20.0000	16.9433(MH)
25 Dibenzo(a,h)anthracene	278	9.950	9.950	(1.130)	259424	20.0000	20.5251(H)
26 Benzo(g,h,i)perylene	276	10.280	10.280	(1.167)	278380	20.0000	19.9347(H)

QC Flag Legend

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

Data File: 1CD10003.D

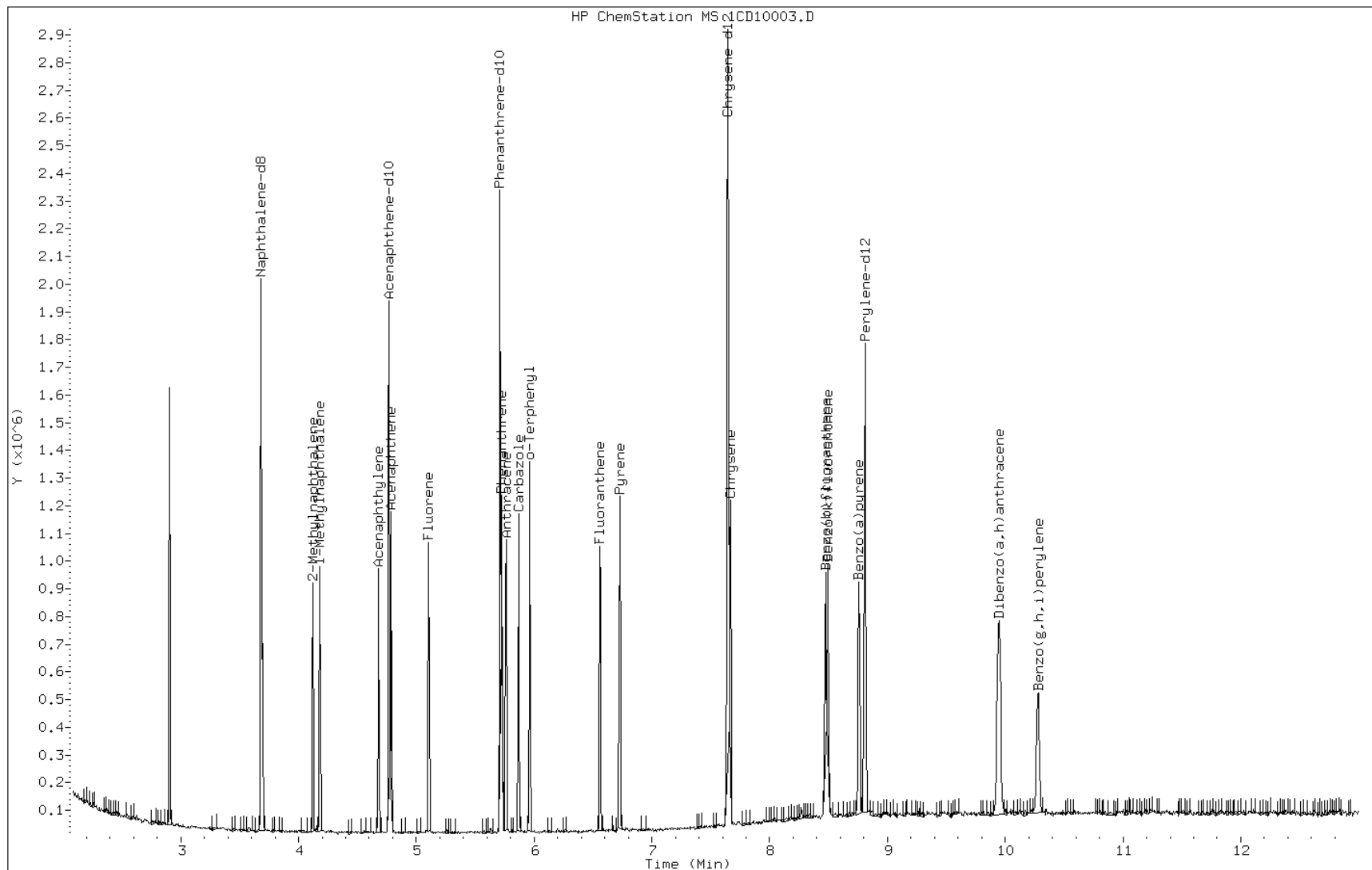
Date: 10-APR-2013 12:10

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC



Manual Integration Report

Data File: 1CD10003.D
Inj. Date and Time: 10-APR-2013 12:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/10/2013

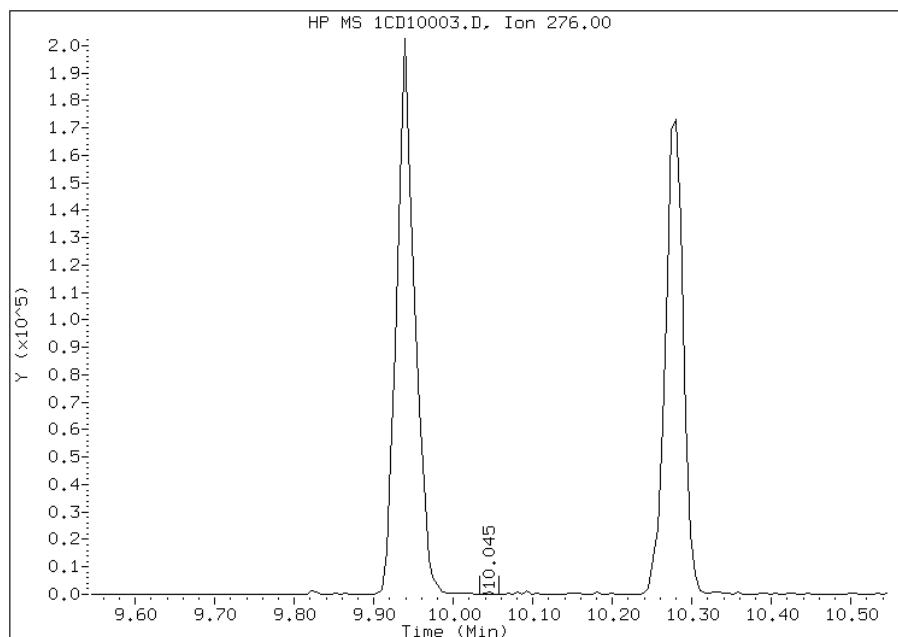
Processing Integration Results

RT: 10.05

Response: 517

Amount: 0

Conc: 0



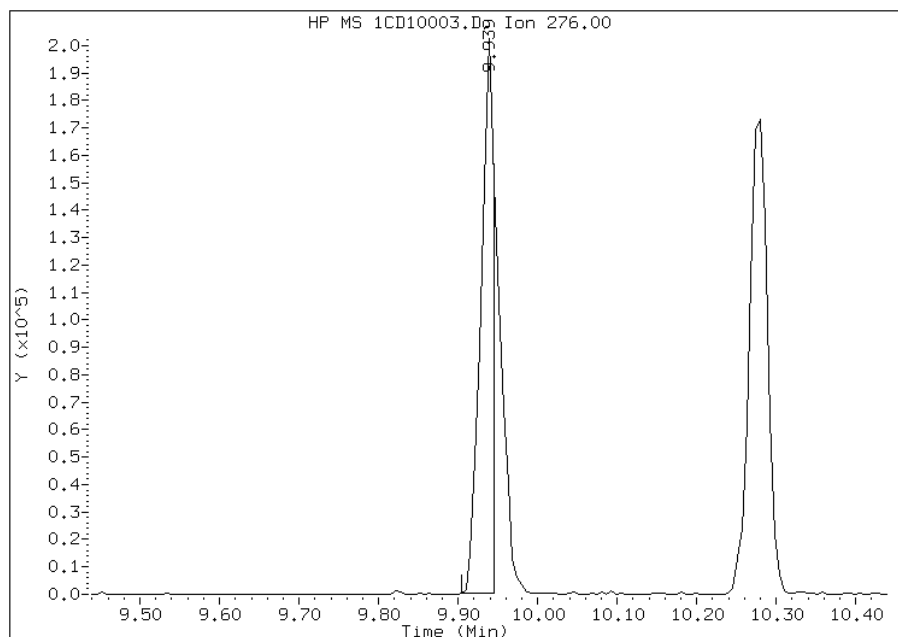
Manual Integration Results

RT: 9.94

Response: 231826

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 10-Apr-2013 12:26
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
 SDG No.: 68088980-1
 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(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					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	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

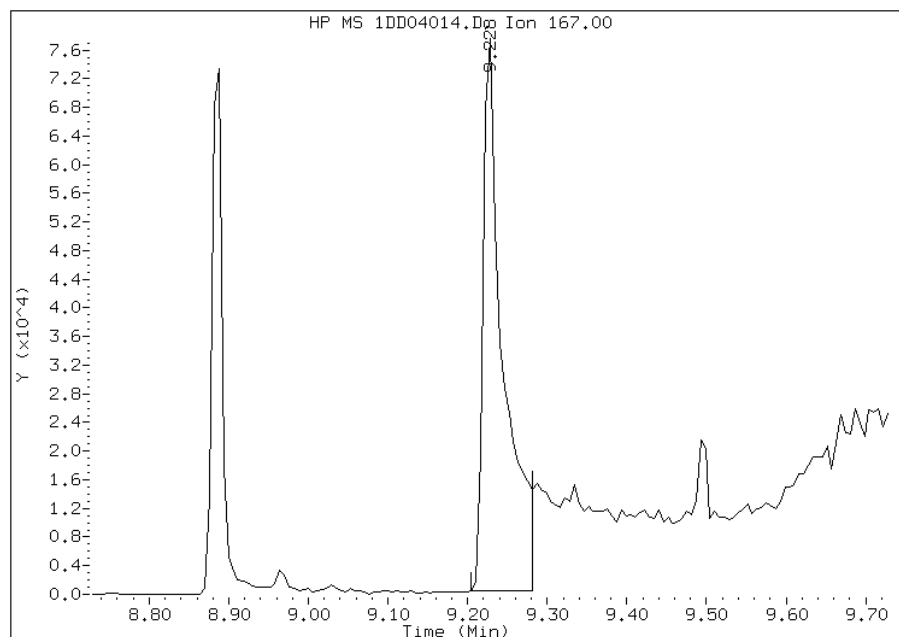
M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

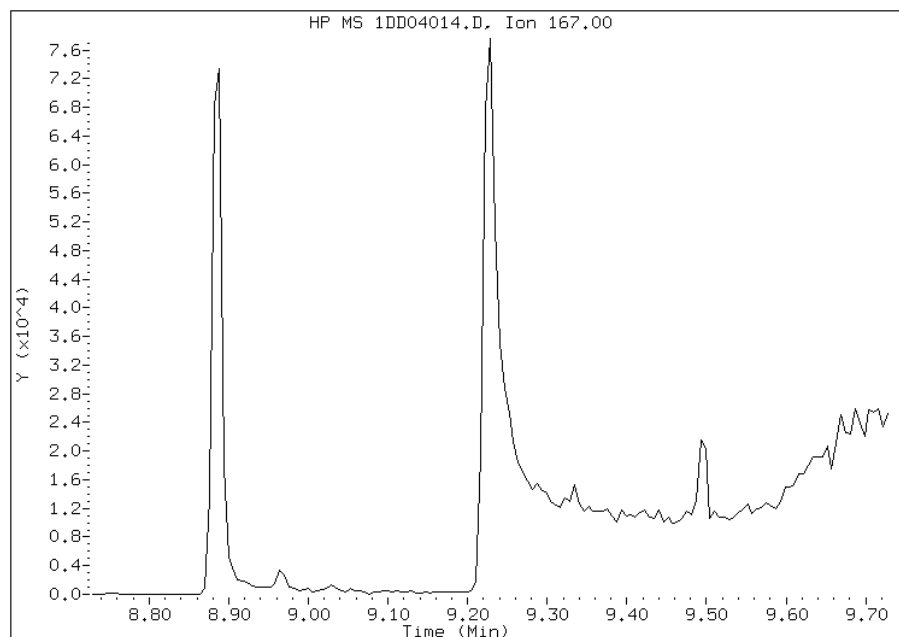
Processing Integration Results

RT: 9.23
Response: 136620
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.23
Response: 1319041
Amount: 14
Conc: 14



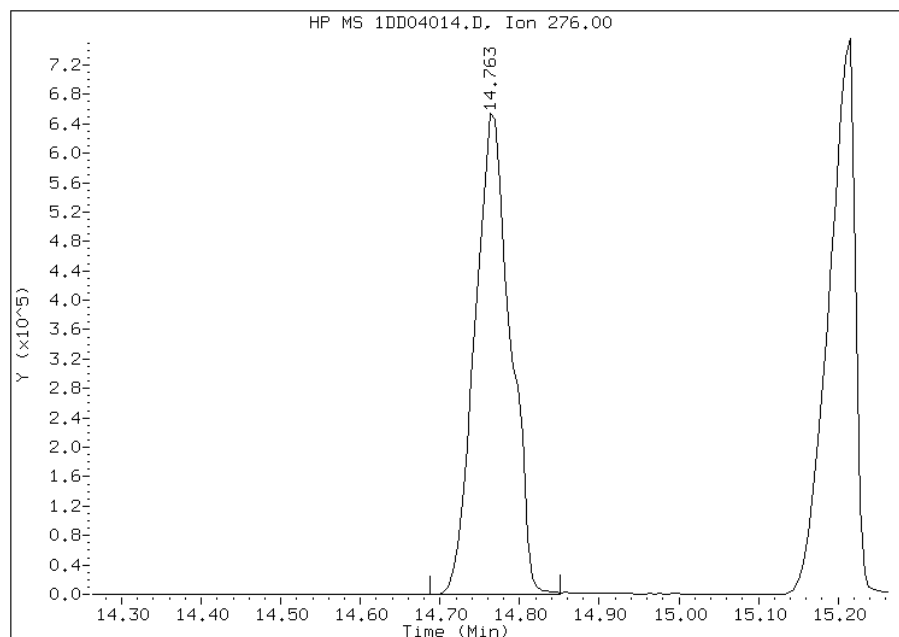
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

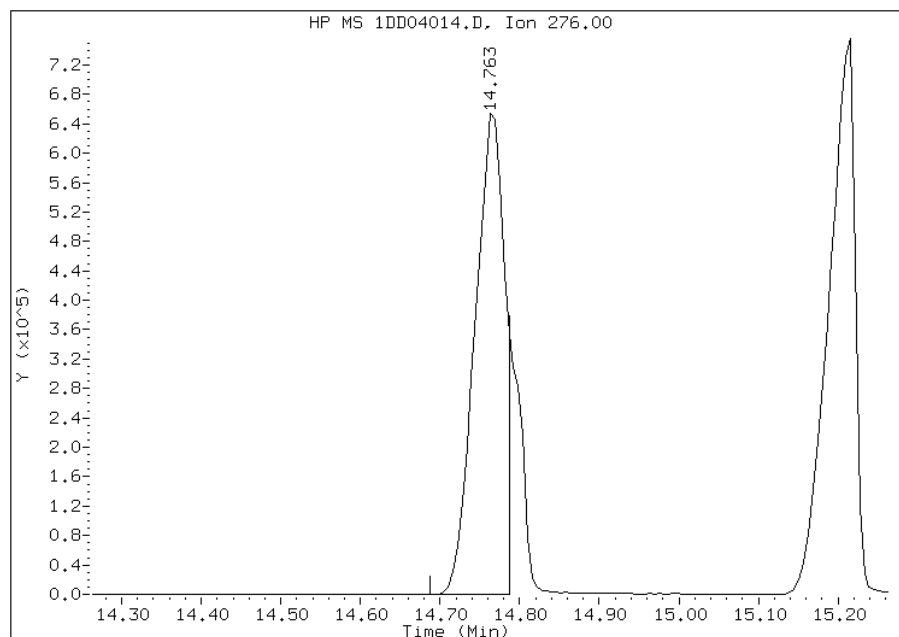
Processing Integration Results

RT: 14.76
Response: 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.: 680-88980-1
 SDG No.: 68088980-1
 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
 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					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(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

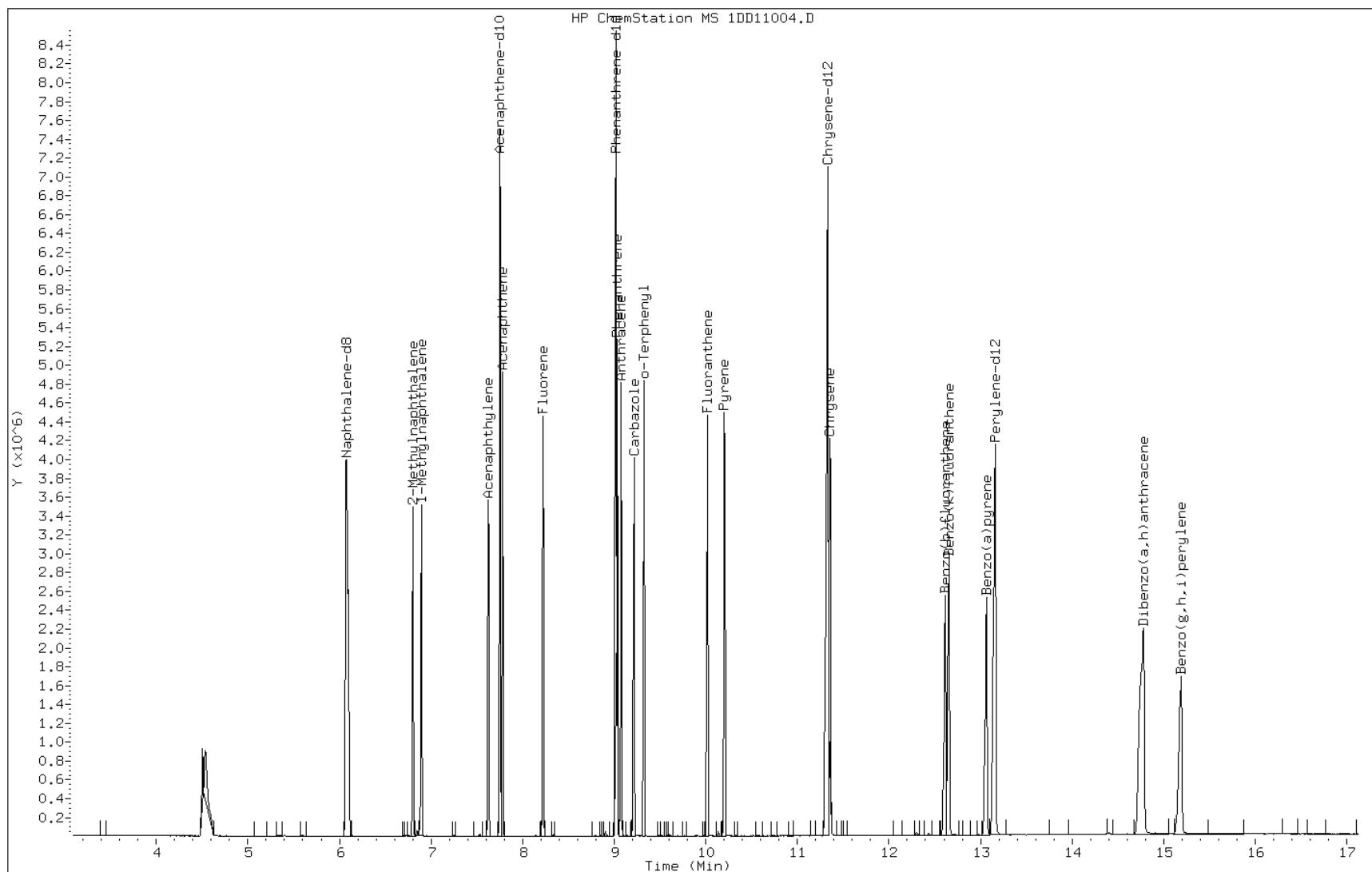
Date: 11-APR-2013 11:20

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1531401

Operator: SCC

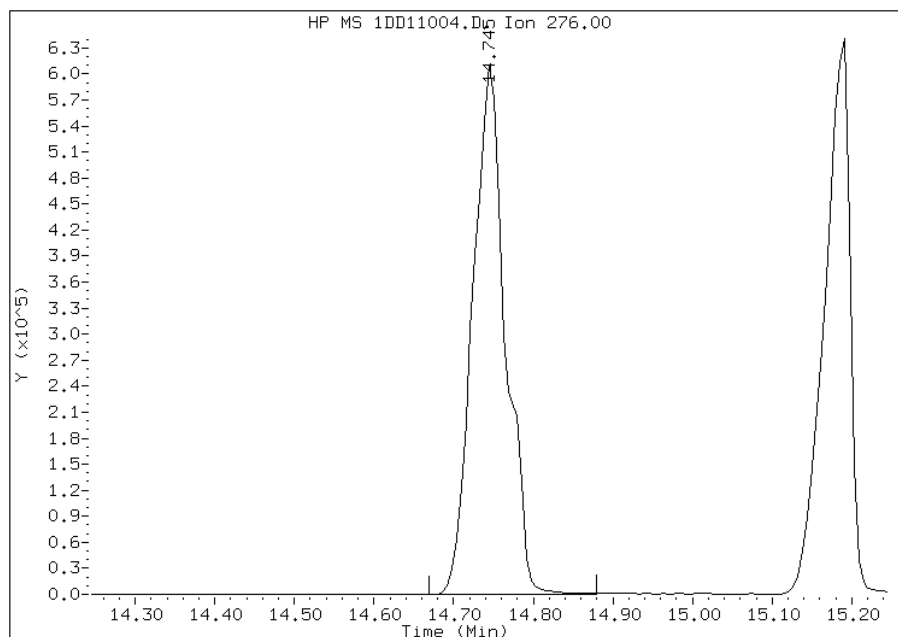


Manual Integration Report

Data File: 1DD11004.D
Inj. Date and Time: 11-APR-2013 11:20
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

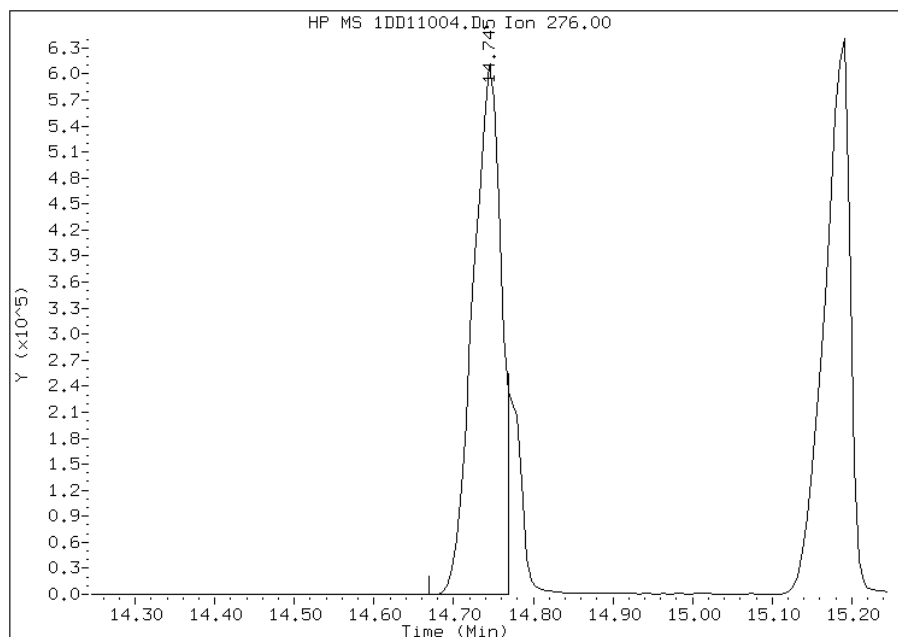
Processing Integration Results

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\1C040213.b\1CD02002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 02-APR-2013 11:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

					CONCENTRATIONS					
					ON-COL	FINAL				
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO	
=====	=====	=====	=====	=====	=====	=====	=====		=====	
1 dftpp					CAS #: 5074-71-5					
7.310	7.469	-0.159	198	70432			50.00-	0.00	100.00	
7.310	7.469	-0.159	51	24576			10.00-	80.00	34.89	
7.310	7.469	-0.159	68	571			0.00-	2.00	1.62	
7.310	7.469	-0.159	69	35176			0.00-	0.00	49.94	
7.310	7.469	-0.159	70	308			0.00-	2.00	0.88	
7.310	7.469	-0.159	127	29688			10.00-	80.00	42.15	
7.310	7.469	-0.159	197	310			0.00-	2.00	0.44	
7.310	7.469	-0.159	442	39944			50.00-	0.00	56.71	
7.310	7.469	-0.159	199	5383			5.00-	9.00	7.64	
7.310	7.469	-0.159	275	15117			10.00-	60.00	21.46	
7.310	7.469	-0.159	365	2390			1.00-	0.00	3.39	
7.310	7.469	-0.159	441	7169			0.01-	99.99	92.67	
7.310	7.469	-0.159	443	7736			15.00-	24.00	19.37	

Data File: 1CD02002.D

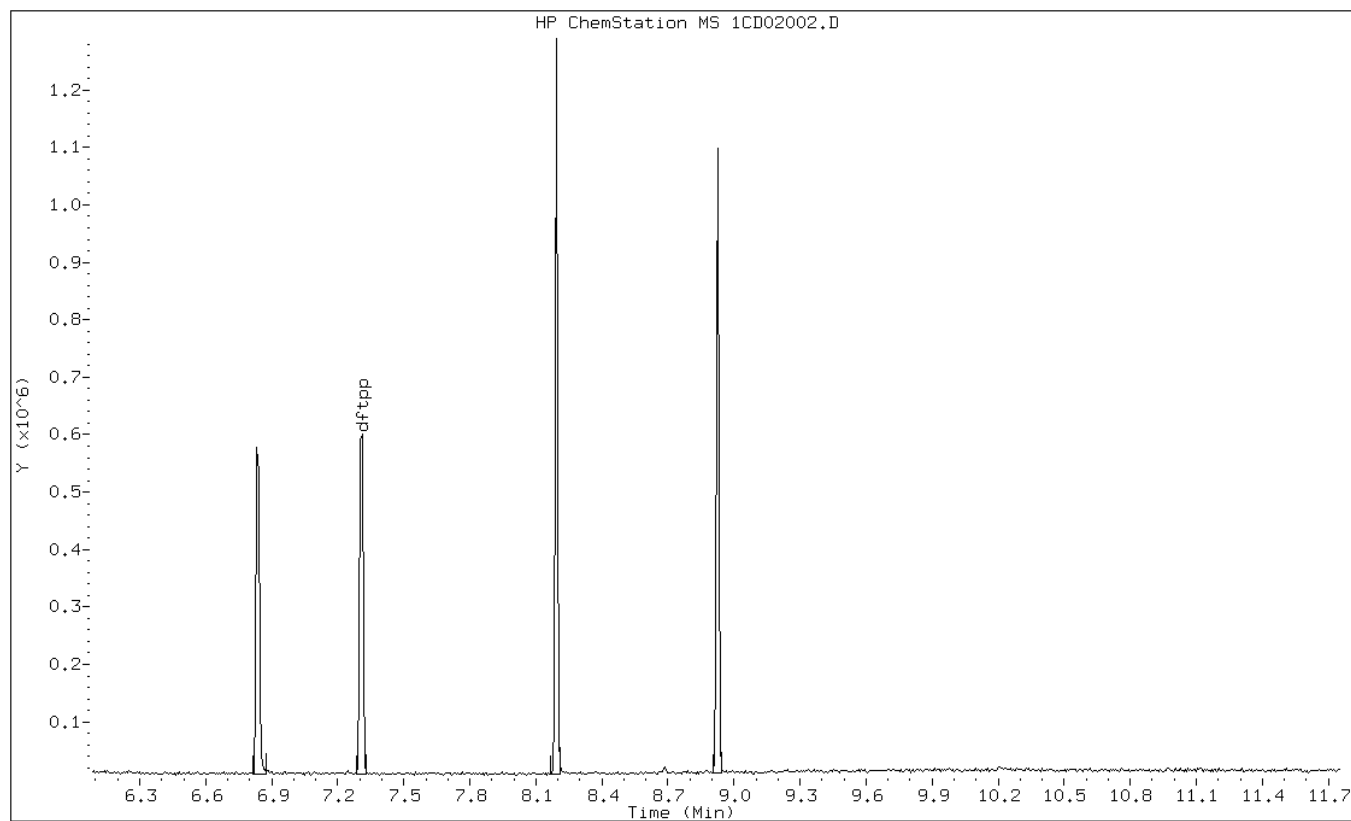
Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD02002.D

Date: 02-APR-2013 11:31

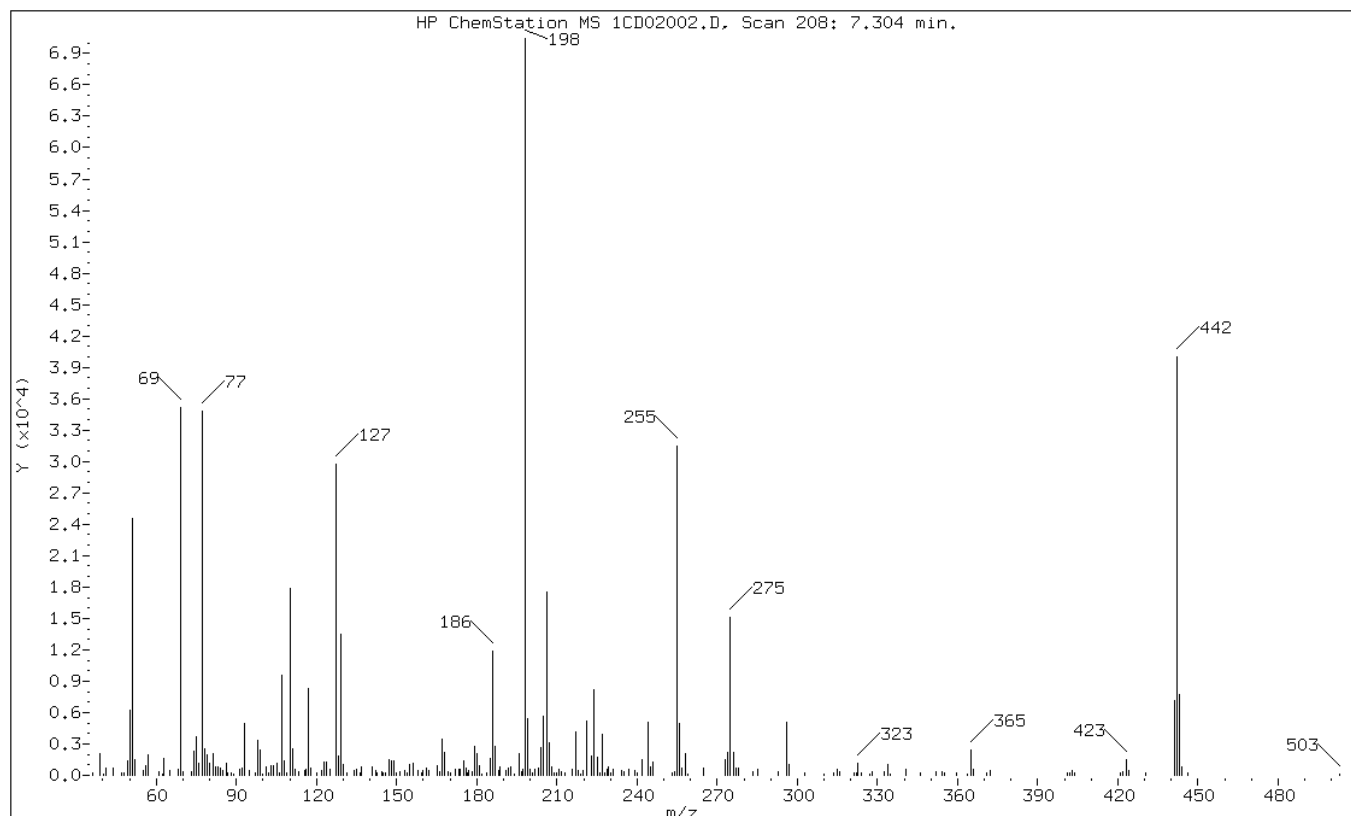
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 10-APR-2013 11:53
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.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				
7.274	7.469	-0.195	198	74016			50.00-	0.00	100.00
7.274	7.469	-0.195	51	29368			10.00-	80.00	39.68
7.274	7.469	-0.195	68	320			0.00-	2.00	0.87
7.274	7.469	-0.195	69	36584			0.00-	0.00	49.43
7.274	7.469	-0.195	70	0	0.0	0.0	0.00-	2.00	0.00
7.274	7.469	-0.195	127	34560			10.00-	80.00	46.69
7.274	7.469	-0.195	197	775			0.00-	2.00	1.05
7.274	7.469	-0.195	442	50880			50.00-	0.00	68.74
7.274	7.469	-0.195	199	5085			5.00-	9.00	6.87
7.274	7.469	-0.195	275	14724			10.00-	60.00	19.89
7.274	7.469	-0.195	365	3333			1.00-	0.00	4.50
7.274	7.469	-0.195	441	9455			0.01-	99.99	98.91
7.274	7.469	-0.195	443	9559			15.00-	24.00	18.79

Data File: 1CD10002.D

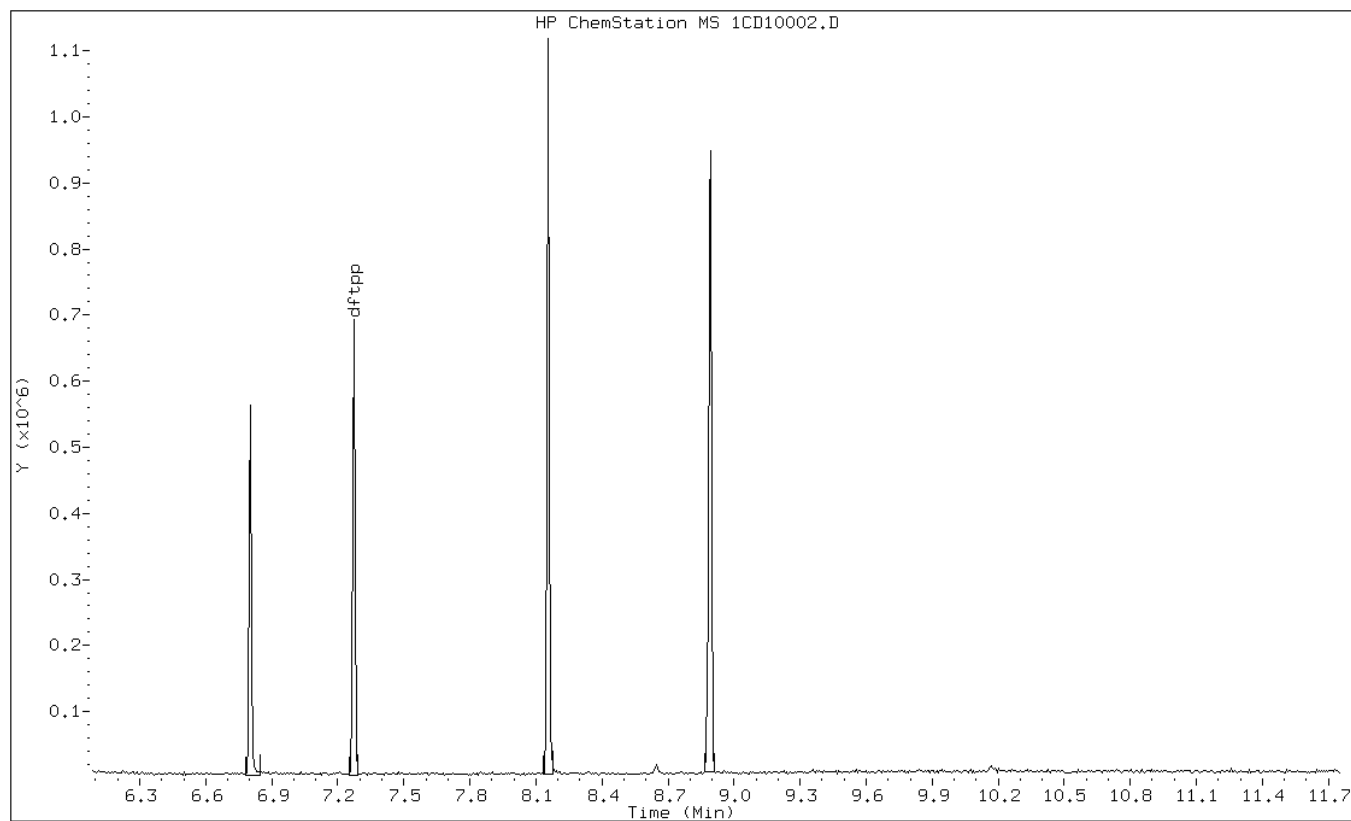
Date: 10-APR-2013 11:53

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD10002.D

Date: 10-APR-2013 11:53

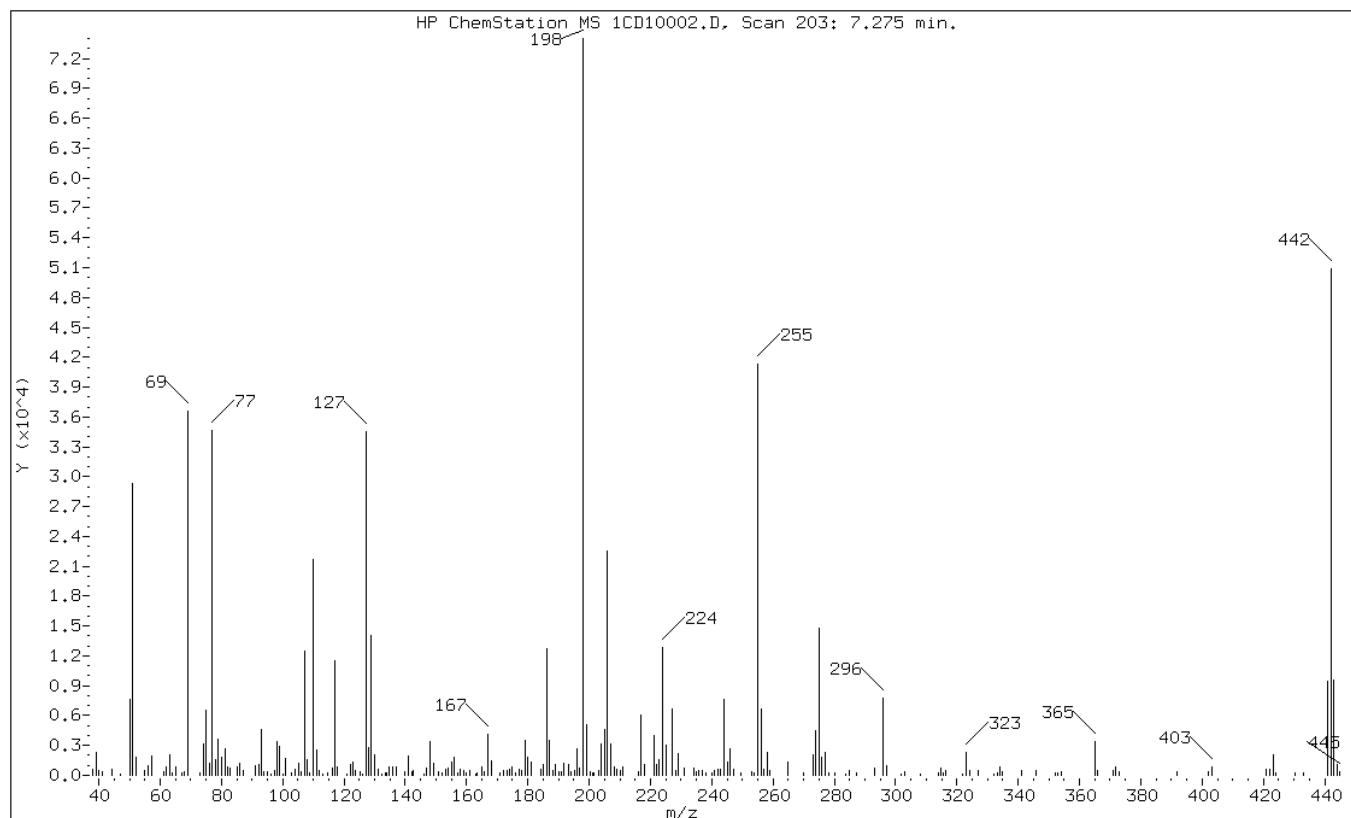
Client ID: DFTPP

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	39.68
68	Less than 2.00% of mass 69	0.43 (0.87)
69	Mass 69 relative abundance	49.43
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.69
197	Less than 2.00% of mass 198	1.05
442	Greater than 50.00% of mass 198	68.74
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 60.00% of mass 198	19.89
365	Greater than 1.00% of mass 198	4.50
441	Present, but less than mass 443	12.77
443	15.00 - 24.00% of mass 442	12.91 (18.79)

Data File: 1CD10002.D

Date: 10-APR-2013 11:53

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10002.D
Spectrum: HP ChemStation MS 1CD10002.D, Scan 203: 7.275 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	588	117.00	11552	187.10	3456	265.00	1361
39.10	2283	118.00	865	188.10	451	269.90	182
40.00	436	121.00	158	189.10	1045	273.10	2109
41.00	367	122.10	1037	190.30	359	274.00	4514
44.10	612	123.10	1390	191.10	324	275.00	14724
47.10	165	123.90	544	191.90	1179	276.00	1786
50.10	7573	125.20	377	193.10	1042	277.00	2360
51.10	29368	126.00	174	193.90	344	278.10	229
52.20	1822	127.10	34560	195.30	427	280.30	183
55.10	485	128.00	2734	196.00	2710	283.70	172
56.00	1009	129.00	14094	197.00	775	285.00	506
57.10	1969	130.00	2008	198.00	74016	287.10	197
61.00	357	131.10	561	199.00	5085	293.10	696
61.90	839	132.20	181	200.20	364	296.00	7743
63.00	2029	133.70	236	201.00	199	297.00	920
63.90	206	134.10	210	201.60	228	301.80	155
65.10	799	134.90	795	203.10	494	302.90	410
67.10	292	135.90	796	204.10	3201	307.90	170
67.80	320	136.90	795	205.00	4579	313.80	207
69.10	36584	140.00	324	206.00	22512	314.80	673
73.00	272	141.00	1920	207.00	3181	315.70	295
74.10	3103	142.10	375	208.10	906	316.20	468
75.10	6509	142.70	541	209.00	626	321.90	170
76.00	1244	146.20	174	210.30	521	323.10	2294
77.10	34696	147.00	681	211.10	788	324.20	438
78.10	1525	148.00	3382	215.90	358	327.00	429
79.00	3606	149.10	1170	217.00	6035	332.00	155
80.00	1792	150.90	304	218.00	1106	333.10	228
81.10	2669	152.20	185	221.10	3994	334.00	824
82.00	851	153.00	550	221.90	1066	335.00	373
83.00	683	154.10	768	222.90	1605	341.00	487
85.10	833	155.20	1295	224.00	12896	345.90	518
86.10	1248	156.00	1788	225.00	3054	352.00	236
87.00	540	157.00	297	227.00	6635	352.90	263
91.10	965	158.00	572	228.10	471	354.00	312
92.10	1037	158.90	495	229.00	2185	365.10	3333
93.00	4551	159.90	292	230.90	751	365.80	474
93.90	344	161.00	440	234.10	720	370.90	468
95.20	334	162.90	179	235.00	337	371.90	880
96.10	157	163.40	245	235.90	433	373.10	322

97.20	470	164.90	837	236.80	442	391.90	344
98.00	3406	165.90	333	238.10	184	402.00	409
99.10	2905	167.00	4175	240.10	196	403.10	813
100.00	181	168.10	1414	241.00	507	420.90	613
101.00	1665	170.70	257	242.00	605	422.00	591
+-----+-----+-----+-----+-----+-----+-----+-----+							
103.00	241	172.00	474	242.90	562	423.10	2023
104.10	624	173.10	512	244.00	7599	424.10	286
105.10	1243	174.00	595	245.00	1393	430.30	264
106.20	404	175.00	881	246.00	2690	433.30	184
107.10	12444	176.10	291	247.10	611	441.10	9455
+-----+-----+-----+-----+-----+-----+-----+-----+							
108.10	1618	177.00	591	249.70	190	442.00	50880
108.90	279	178.10	490	253.20	383	443.00	9559
110.00	21720	179.00	3472	253.90	265	444.00	1143
111.00	2561	180.00	1837	255.00	41368	444.90	333
111.90	536	181.10	1372	256.10	6633		
+-----+-----+-----+-----+-----+-----+-----+-----+							
112.90	159	184.20	644	257.00	613		
114.70	215	184.90	1094	258.00	2242		
116.10	683	186.10	12736	259.00	509		
+-----+-----+-----+-----+-----+-----+-----+-----+							

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

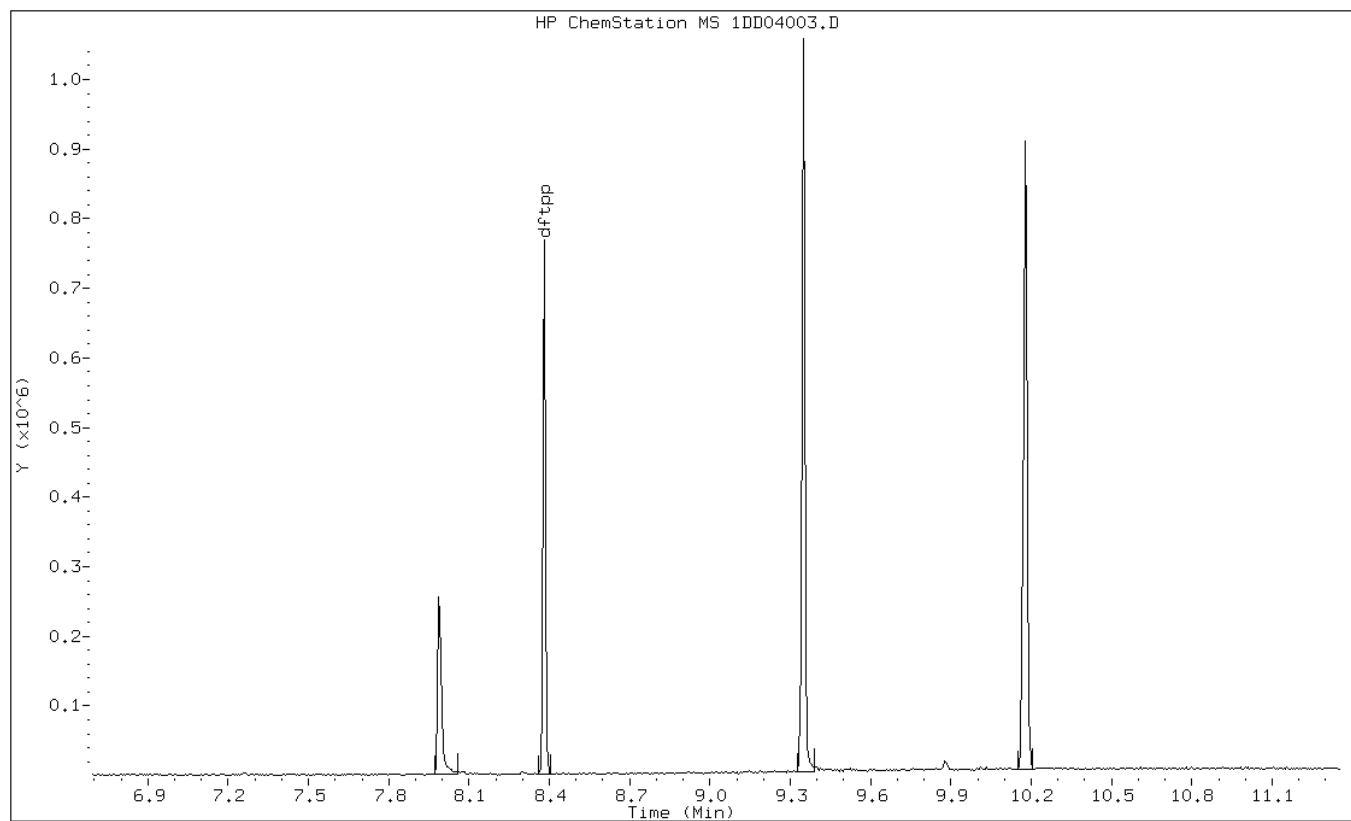
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

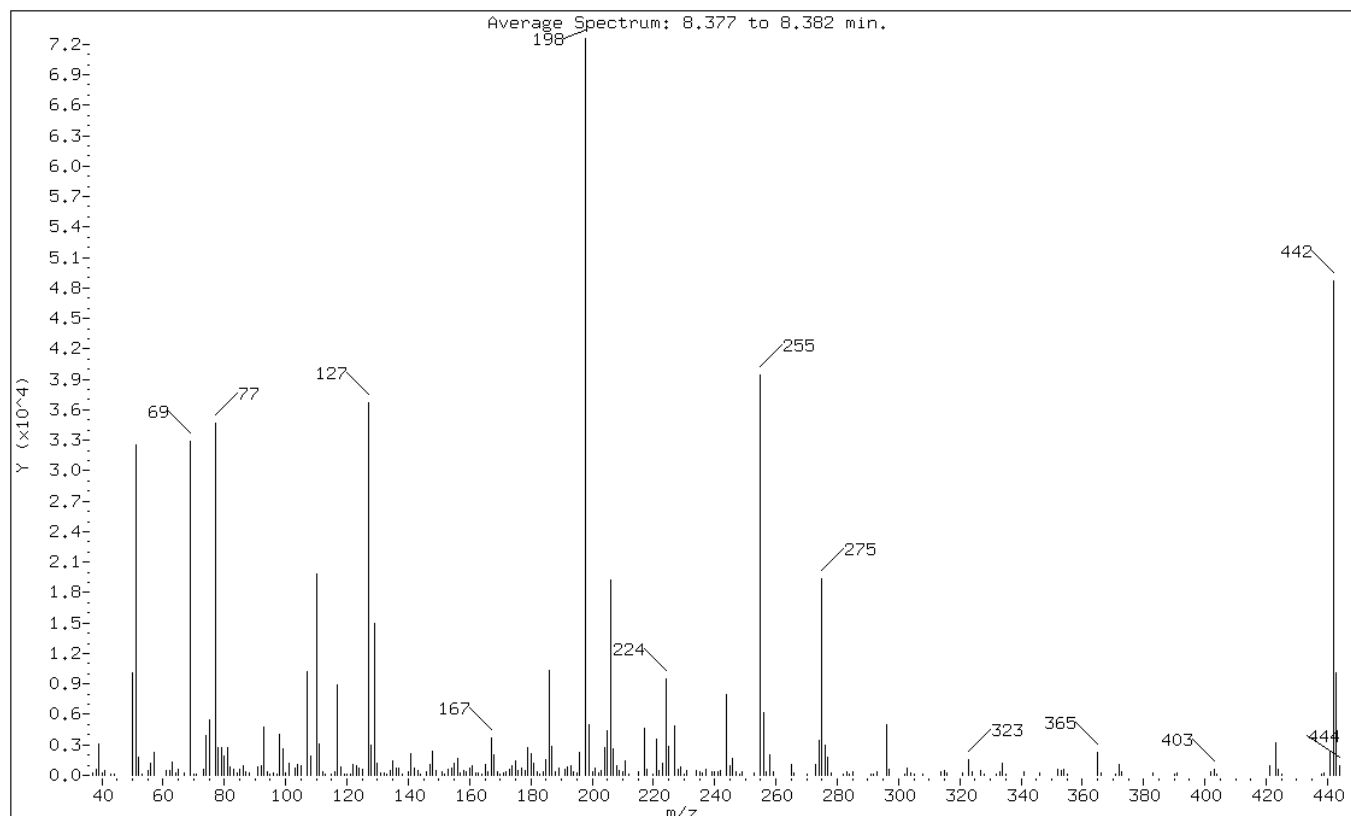
Client ID: DFTPP

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	0.0	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	0.0	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	0.0	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

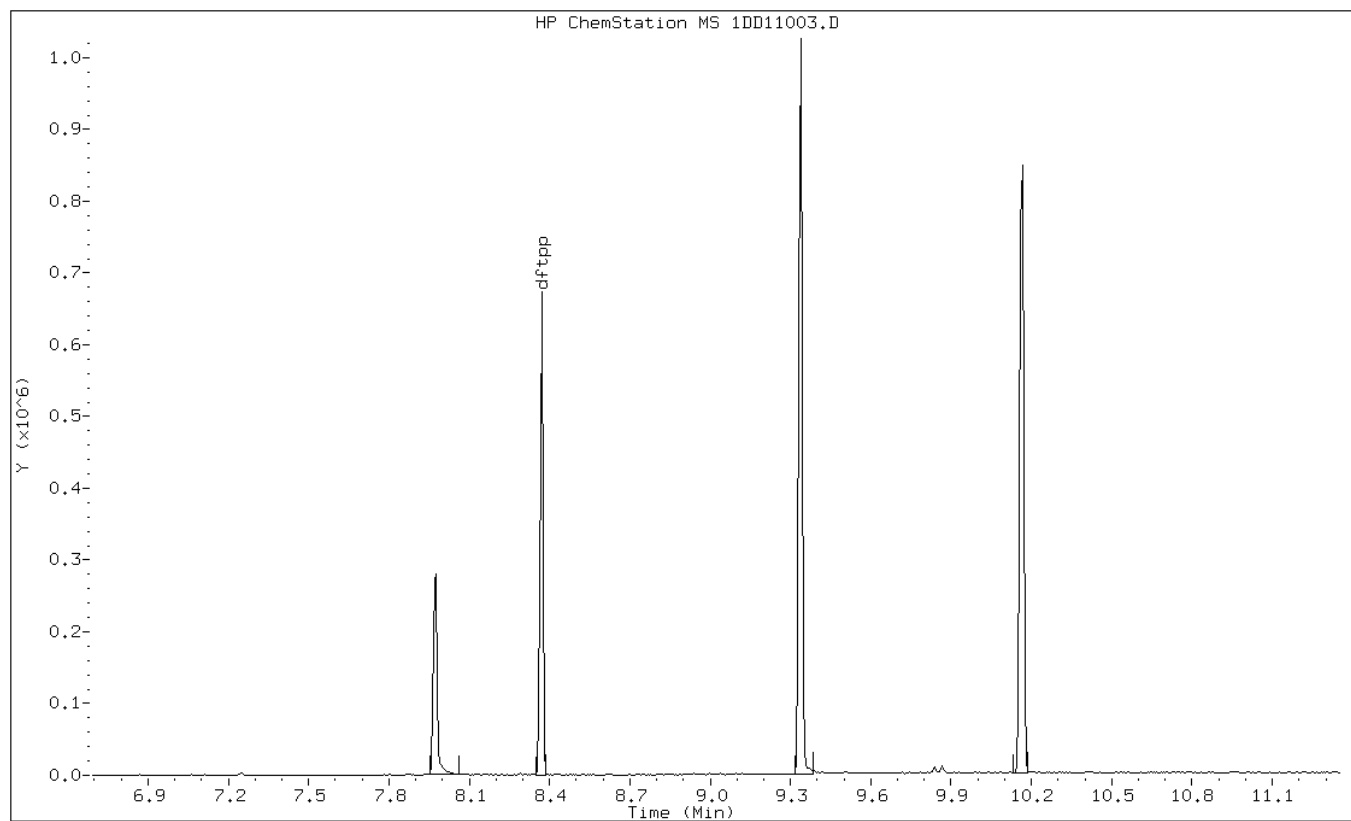
Date: 11-APR-2013 11:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD11003.D

Date: 11-APR-2013 11:00

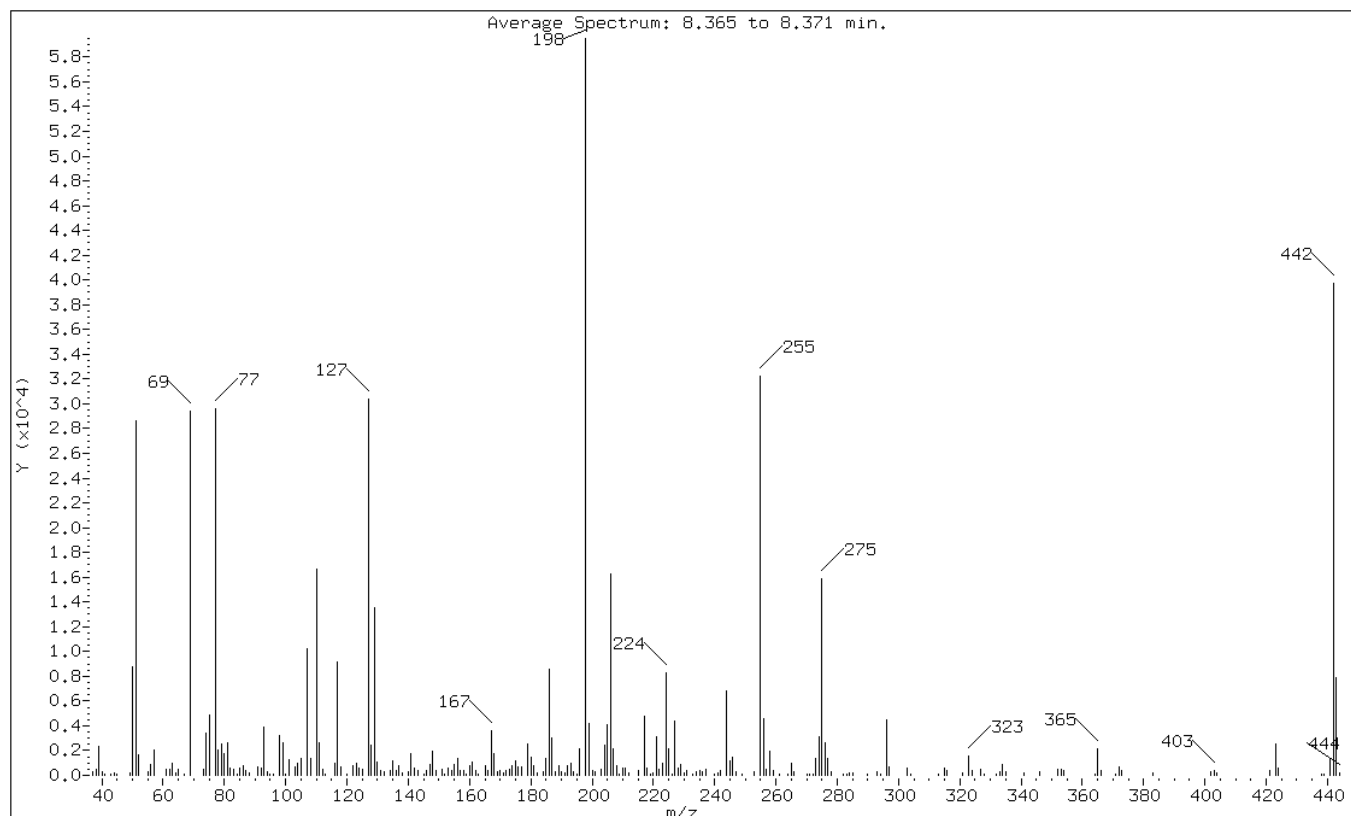
Client ID: DFTPP

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-chemsvr\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: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136250/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>04/10/2013 16:58</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10015.D
 Lab Smp Id: mb 660-136250/1-a
 Inj Date : 10-APR-2013 16:58
 Operator : SCC
 Smp Info : mb 660-136250/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1-a-bFASTPAHi-m.m
 Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
 Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
 Als bottle: 15 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMC5973.i
 Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
* 1	Naphthalene-d8	136	3.680	3.680	(1.000)	387272	40.0000	
* 6	Acenaphthene-d10	164	4.769	4.768	(1.000)	287489	40.0000	
* 10	Phenanthrene-d10	188	5.721	5.710	(1.000)	537552	40.0000	
\$ 14	o-Terphenyl	230	5.968	5.963	(1.043)	49426	6.35852	421.3733
* 18	Chrysene-d12	240	7.657	7.645	(1.000)	640558	40.0000	
* 23	Perylene-d12	264	8.827	8.809	(1.000)	619768	40.0000	

Data File: 1CD10015.D

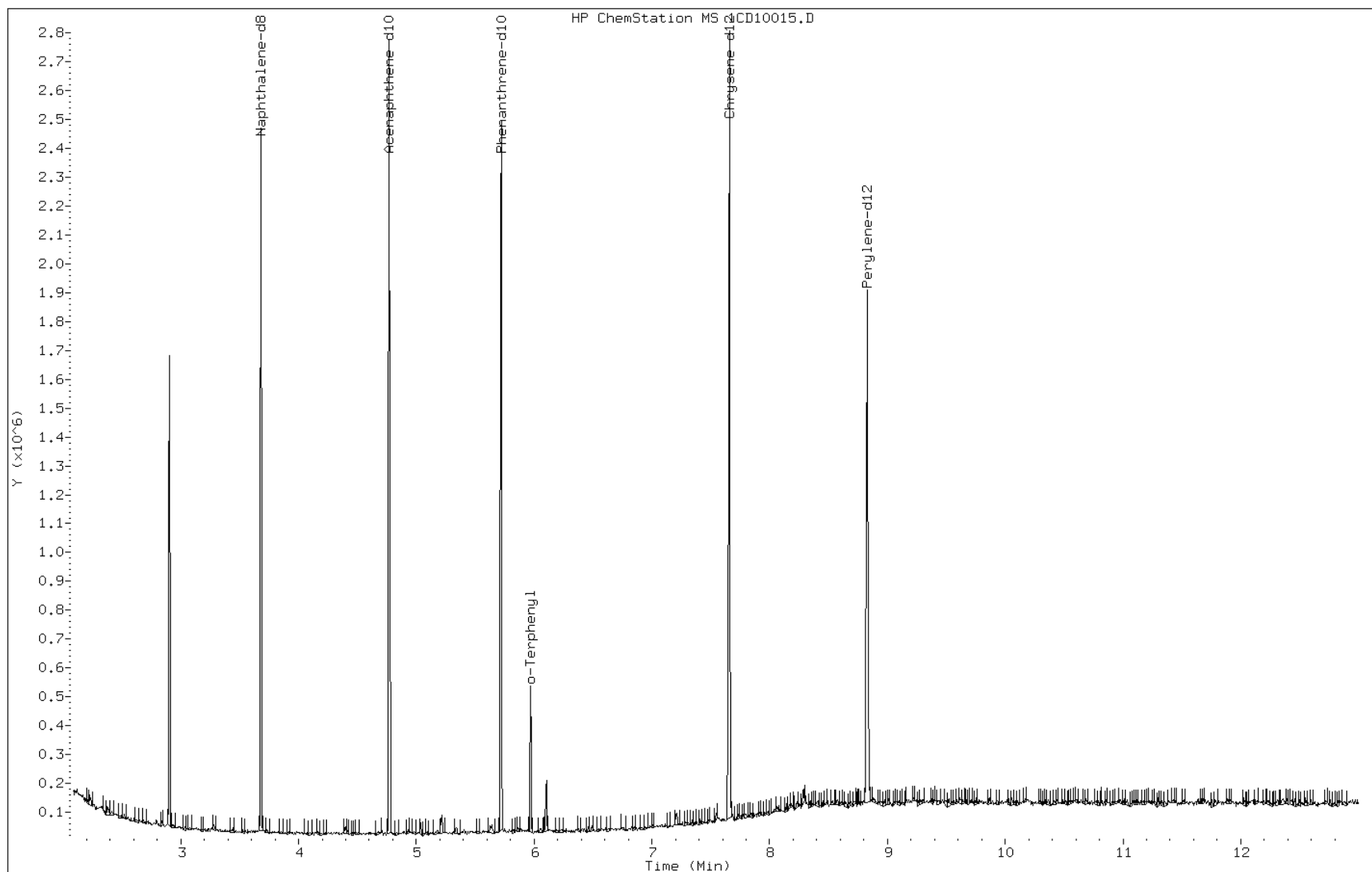
Date: 10-APR-2013 16:58

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-136250/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136250/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.26(g)</u>	Date Analyzed: <u>04/10/2013 17:16</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410		98	20
208-96-8	Acenaphthylene	421		39	4.9
120-12-7	Anthracene	416		8.3	4.1
56-55-3	Benzo[a]anthracene	442		7.9	3.8
50-32-8	Benzo[a]pyrene	387		10	5.1
205-99-2	Benzo[b]fluoranthene	369		12	6.0
191-24-2	Benzo[g,h,i]perylene	365		20	4.3
207-08-9	Benzo[k]fluoranthene	480		7.9	3.5
218-01-9	Chrysene	408		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	448		20	4.0
206-44-0	Fluoranthene	448		20	3.9
86-73-7	Fluorene	400		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	347		20	7.0
90-12-0	1-Methylnaphthalene	448		39	4.3
91-57-6	2-Methylnaphthalene	408		39	7.0
91-20-3	Naphthalene	396		39	4.3
85-01-8	Phenanthrene	418		7.9	3.8
129-00-0	Pyrene	448		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10016.D
Lab Smp Id: lcs 660-136250/2-a
Inj Date : 10-APR-2013 17:16
Operator : SCC
Smp Info : lcs 660-136250/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10016.D
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	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

							CONCENTRATIONS	
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.680	3.680	(1.000)	357806	40.0000	
*	6 Acenaphthene-d10	164	4.769	4.768	(1.000)	279078	40.0000	
*	10 Phenanthrene-d10	188	5.710	5.710	(1.000)	538835	40.0000	
\$	14 o-Terphenyl	230	5.963	5.963	(1.044)	49411	6.34341	415.6884
*	18 Chrysene-d12	240	7.645	7.645	(1.000)	660161	40.0000	
*	23 Perylene-d12	264	8.810	8.809	(1.000)	608181	40.0000	
	2 Naphthalene	128	3.692	3.692	(1.003)	55517	6.04091	395.8656
	3 2-Methylnaphthalene	142	4.122	4.121	(1.120)	38978	6.23060	408.2962
	4 1-Methylnaphthalene	142	4.180	4.180	(1.136)	38467	6.83361	447.8120
	5 Acenaphthylene	152	4.680	4.680	(0.982)	74159	6.42049	420.7401
	7 Acenaphthene	154	4.786	4.786	(1.004)	44709	6.24958	409.5397
	9 Fluorene	166	5.104	5.104	(1.070)	58161	6.09853	399.6415
	11 Phenanthrene	178	5.727	5.727	(1.003)	100052	6.37543	417.7868
	12 Anthracene	178	5.763	5.763	(1.009)	100978	6.34743	415.9523

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.869	5.868	(1.028)	93342	6.84852	448.7890
15 Fluoranthene	202	6.557	6.557	(1.148)	118434	6.83351	447.8052
16 Pyrene	202	6.727	6.727	(0.880)	124892	6.82956	447.5467
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	126468	6.74726	442.1532
19 Chrysene	228	7.668	7.668	(1.003)	117033	6.22129	407.6858
20 Benzo(b)fluoranthene	252	8.474	8.474	(0.962)	96894	5.63541	369.2926
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	121810	7.32494	480.0089
22 Benzo(a)pyrene	252	8.757	8.756	(0.994)	95713	5.91275	387.4673
24 Indeno(1,2,3-cd)pyrene	276	9.939	9.939	(1.128)	81476	5.29921	347.2617(M)
25 Dibenzo(a,h)anthracene	278	9.951	9.950	(1.130)	97074	6.83477	447.8876
26 Benzo(g,h,i)perylene	276	10.274	10.280	(1.166)	87418	5.57082	365.0600

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD10016.D

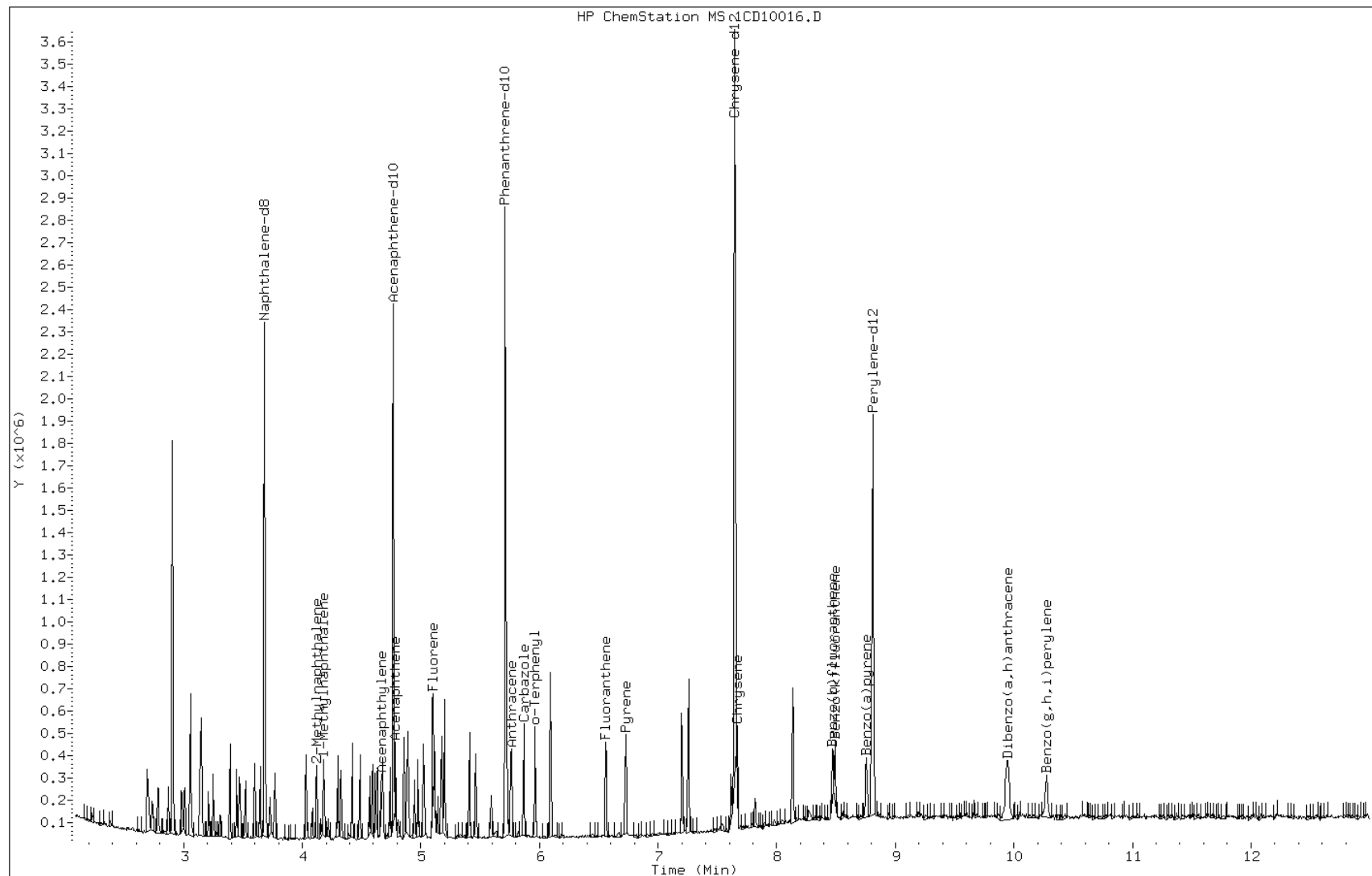
Date: 10-APR-2013 17:16

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136250/2-a

Operator: SCC

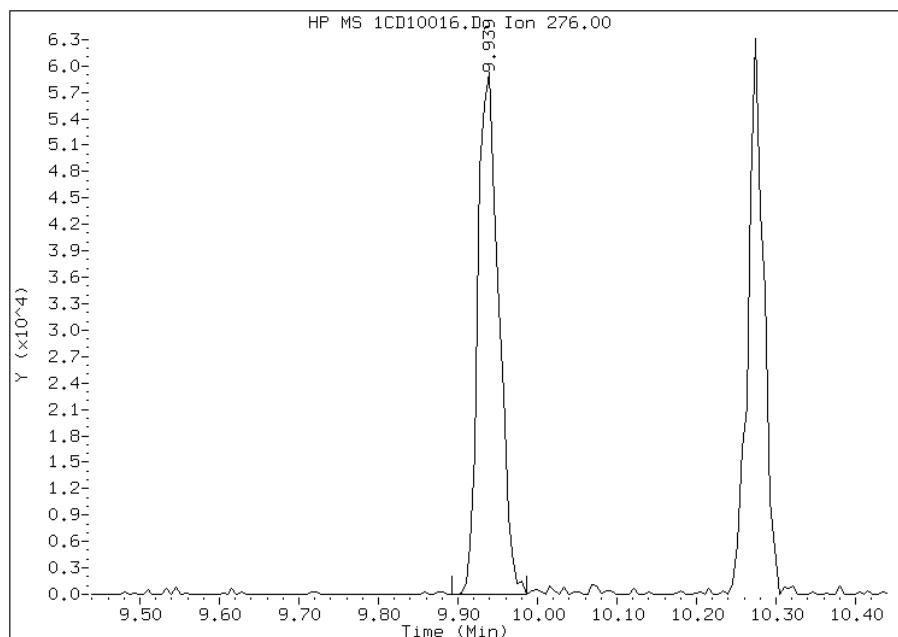


Manual Integration Report

Data File: 1CD10016.D
Inj. Date and Time: 10-APR-2013 17:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

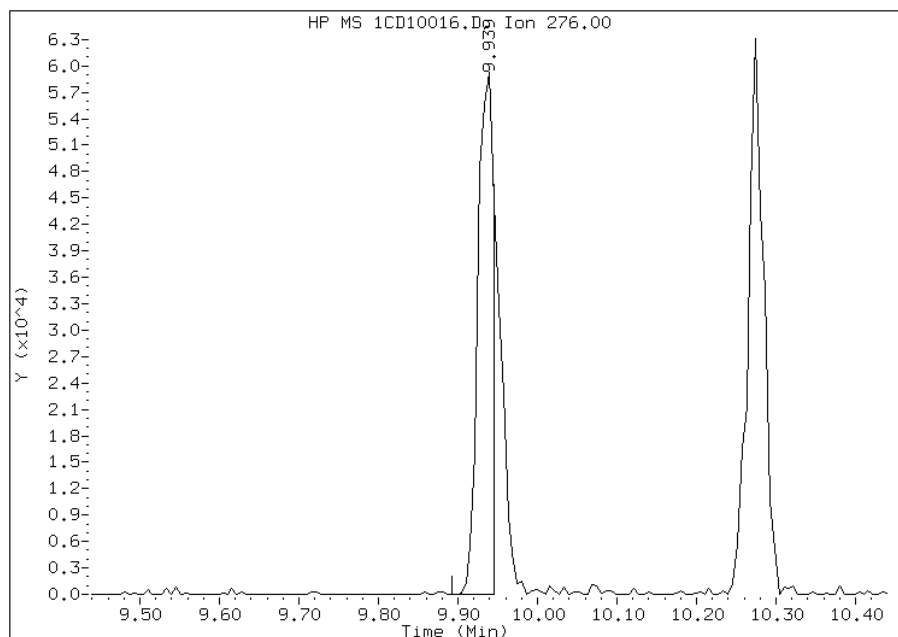
Processing Integration Results

RT: 9.94
Response: 106877
Amount: 7
Conc: 456



Manual Integration Results

RT: 9.94
Response: 81476
Amount: 5
Conc: 347



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 13:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0666B-CS MS</u>	Lab Sample ID: <u>680-88980-8 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10025.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:17</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.10(g)</u>	Date Analyzed: <u>04/10/2013 20:02</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>46.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	801		190	37
208-96-8	Acenaphthylene	860		74	9.3
120-12-7	Anthracene	864		16	7.8
56-55-3	Benzo[a]anthracene	972		15	7.2
50-32-8	Benzo[a]pyrene	912		19	9.6
205-99-2	Benzo[b]fluoranthene	1090		23	11
191-24-2	Benzo[g,h,i]perylene	841		37	8.2
207-08-9	Benzo[k]fluoranthene	1010		15	6.7
218-01-9	Chrysene	922		17	8.3
53-70-3	Dibenz(a,h)anthracene	868		37	7.6
206-44-0	Fluoranthene	1040		37	7.4
86-73-7	Fluorene	811		37	7.6
193-39-5	Indeno[1,2,3-cd]pyrene	865		37	13
90-12-0	1-Methylnaphthalene	775		74	8.2
91-57-6	2-Methylnaphthalene	677		74	13
91-20-3	Naphthalene	753		74	8.2
85-01-8	Phenanthrene	891		15	7.2
129-00-0	Pyrene	1150		37	6.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10025.D
Lab Smp Id: 680-88980-a-8-b ms
Inj Date : 10-APR-2013 20:02
Operator : SCC
Smp Info : 680-88980-a-8-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1a-bFASTPAHi-m.m
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		382063	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		272561	40.0000	
* 10 Phenanthrene-d10	188		5.709	5.710	(1.000)		520052	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		47611	6.33426	419.4876
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		615839	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		551005	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		59698	6.08343	402.8764
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		36577	5.47559	362.6220
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		37640	6.26216	414.7126
5 Acenaphthylene	152		4.680	4.680	(0.981)		78411	6.95094	460.3271
7 Acenaphthene	154		4.786	4.786	(1.004)		45250	6.47644	428.9030
9 Fluorene	166		5.104	5.104	(1.070)		61063	6.55592	434.1666
11 Phenanthrene	178		5.727	5.727	(1.003)		109063	7.20062	476.8623
12 Anthracene	178		5.762	5.763	(1.009)		107212	6.98271	462.4308

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.868	5.868	(1.028)	95437	7.25513	480.4724
15 Fluoranthene	202	6.556	6.557	(1.148)	140417	8.39452	555.9286
16 Pyrene	202	6.727	6.727	(0.880)	158766	9.30676	616.3416
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	137737	7.85463	520.1742
19 Chrysene	228	7.662	7.668	(1.002)	130826	7.45502	493.7097
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.961)	137052	8.79814	582.6584
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	122833	8.15292	539.9286
22 Benzo(a)pyrene	252	8.750	8.756	(0.993)	108178	7.37624	488.4926
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.939	(1.128)	97363	6.98961	462.8882(M)
25 Dibenzo(a,h)anthracene	278	9.944	9.950	(1.129)	90268	7.01507	464.5739
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	96703	6.80198	450.4621

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD10025.D

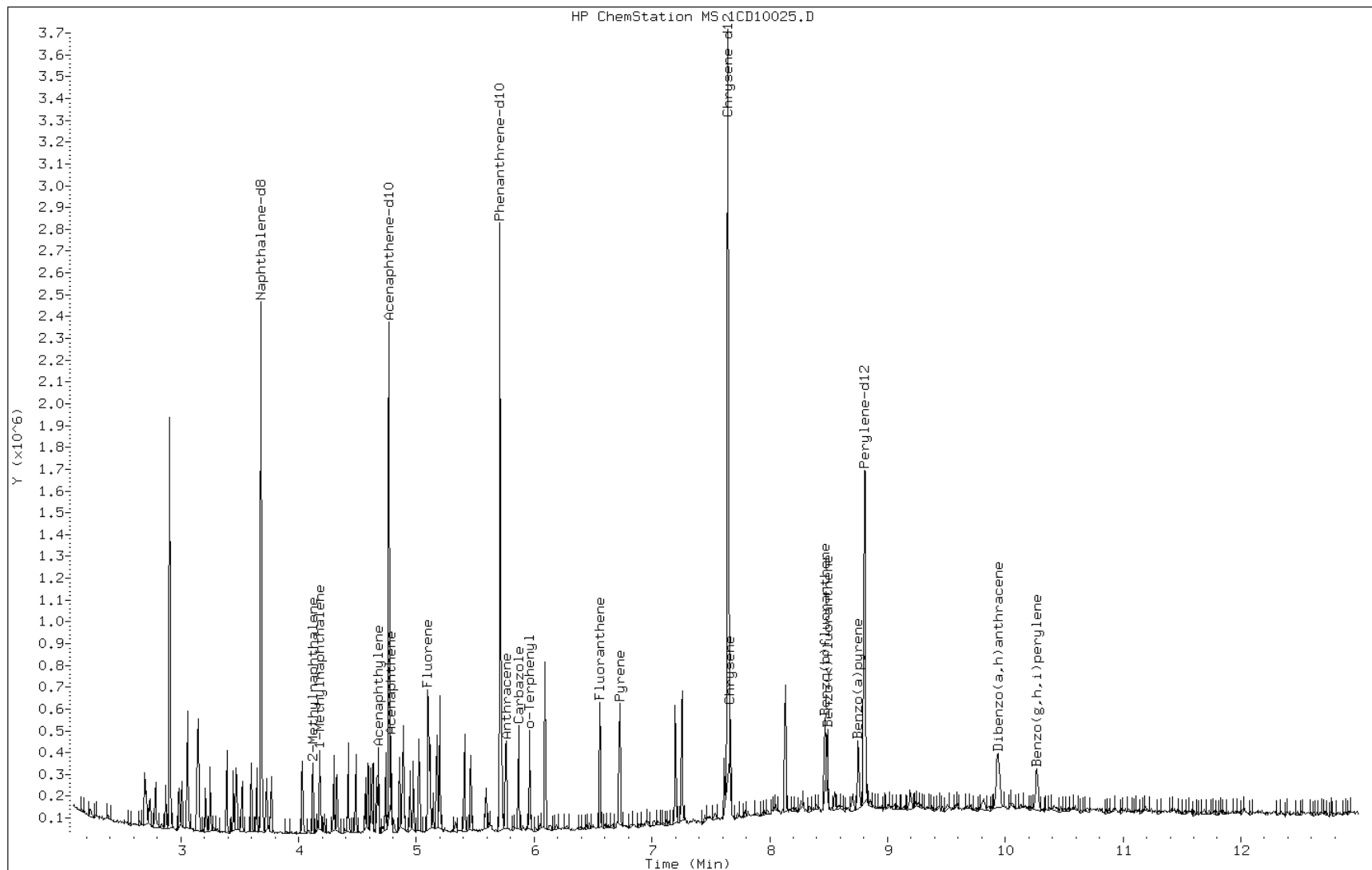
Date: 10-APR-2013 20:02

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-b ms

Operator: SCC

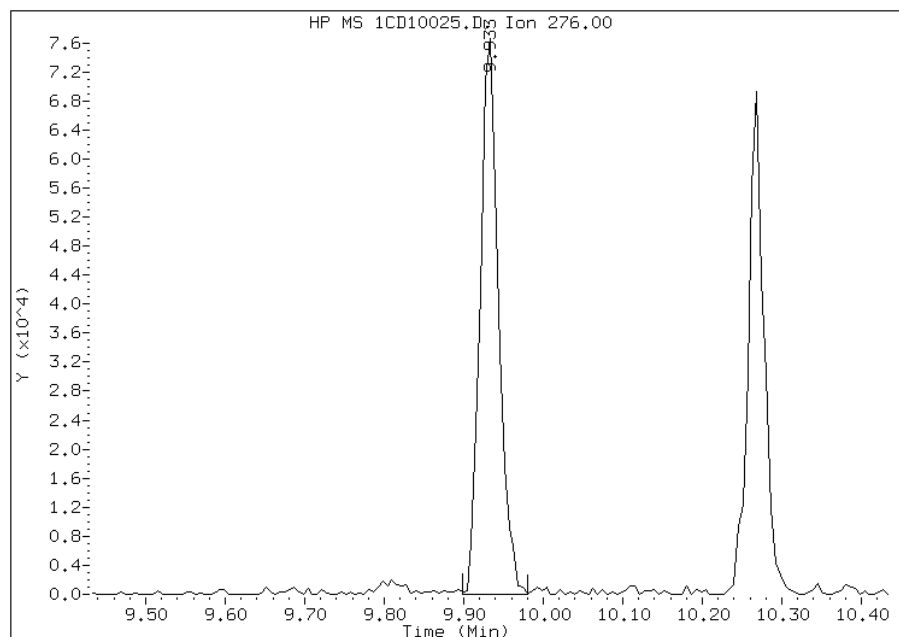


Manual Integration Report

Data File: 1CD10025.D
Inj. Date and Time: 10-APR-2013 20:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

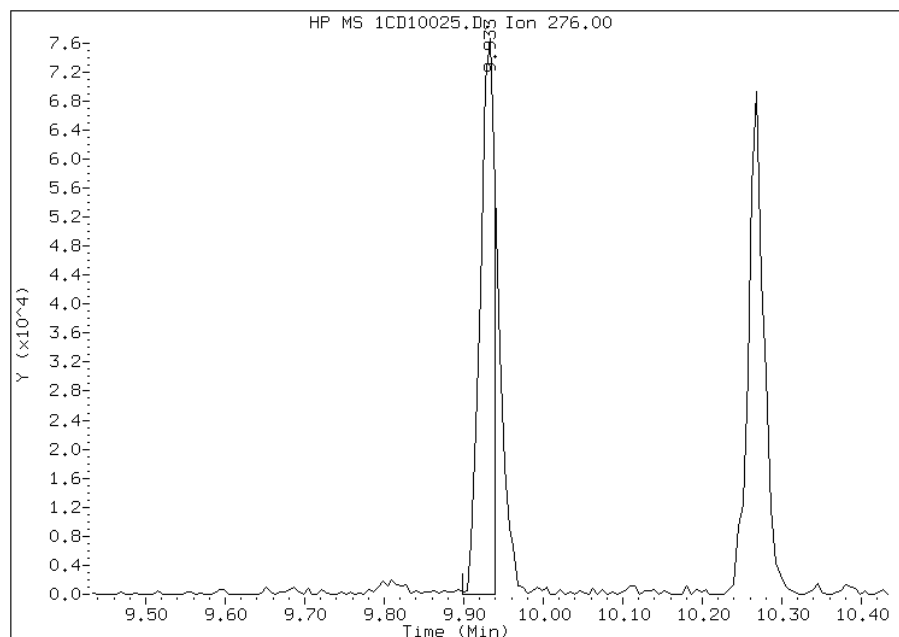
Processing Integration Results

RT: 9.93
Response: 121899
Amount: 9
Conc: 580



Manual Integration Results

RT: 9.93
Response: 97363
Amount: 7
Conc: 463



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-88980-1</u>
SDG No.: <u>68088980-1</u>	
Client Sample ID: <u>CV0666B-CS MSD</u>	Lab Sample ID: <u>680-88980-8 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD10026.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/02/2013 09:17</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/09/2013 09:40</u>
Sample wt/vol: <u>15.24(g)</u>	Date Analyzed: <u>04/10/2013 20:20</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>46.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136309</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	583		180	37
208-96-8	Acenaphthylene	746		74	9.2
120-12-7	Anthracene	756		15	7.7
56-55-3	Benzo[a]anthracene	1210		15	7.2
50-32-8	Benzo[a]pyrene	803		19	9.6
205-99-2	Benzo[b]fluoranthene	1150		22	11
191-24-2	Benzo[g,h,i]perylene	696		37	8.1
207-08-9	Benzo[k]fluoranthene	900		15	6.6
218-01-9	Chrysene	951		17	8.3
53-70-3	Dibenz(a,h)anthracene	762		37	7.5
206-44-0	Fluoranthene	1670		37	7.4
86-73-7	Fluorene	690		37	7.5
193-39-5	Indeno[1,2,3-cd]pyrene	686		37	13
90-12-0	1-Methylnaphthalene	698		74	8.1
91-57-6	2-Methylnaphthalene	708		74	13
91-20-3	Naphthalene	754		74	8.1
85-01-8	Phenanthrene	720		15	7.2
129-00-0	Pyrene	1540		37	6.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10026.D
Lab Smp Id: 680-88980-a-8-c msd
Inj Date : 10-APR-2013 20:20
Operator : SCC
Smp Info : 680-88980-a-8-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041013.b\1CD10026.D
Meth Date : 10-Apr-2013 12:25 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

$$\text{Amt} * \text{DF} * \frac{1}{V_i} * \frac{V_t}{W_s} * \frac{100}{(100 - M)} * A * B * C * D * \text{GPC} * \text{CpndVariable}$$

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	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	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.680	3.680	(1.000)		406678	40.0000	
* 6 Acenaphthene-d10	164		4.768	4.768	(1.000)		290687	40.0000	
* 10 Phenanthrene-d10	188		5.709	5.710	(1.000)		545257	40.0000	
\$ 14 o-Terphenyl	230		5.962	5.963	(1.044)		48030	6.12207	401.7104
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		639196	40.0000	
* 23 Perylene-d12	264		8.809	8.809	(1.000)		605963	40.0000	
2 Naphthalene	128		3.692	3.692	(1.003)		64251	6.15111	403.6159
3 2-Methylnaphthalene	142		4.121	4.121	(1.120)		41056	5.77410	378.8776
4 1-Methylnaphthalene	142		4.180	4.180	(1.136)		36444	5.69620	373.7661
5 Acenaphthylene	152		4.680	4.680	(0.981)		73232	6.08703	399.4114
7 Acenaphthene	154		4.786	4.786	(1.004)		35465	4.75944	312.2990
9 Fluorene	166		5.104	5.104	(1.070)		55905	5.62787	369.2827
11 Phenanthrene	178		5.727	5.727	(1.003)		93342	5.87781	385.6827
12 Anthracene	178		5.762	5.763	(1.009)		99345	6.17123	404.9364

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.868	5.868	(1.028)	83144	6.02844	395.5670
15 Fluoranthene	202	6.556	6.557	(1.148)	239282	13.6437	895.2552(R)
16 Pyrene	202	6.727	6.727	(0.880)	223145	12.6026	826.9443
17 Benzo(a)anthracene	228	7.639	7.639	(0.999)	181026	9.90991	650.2563
19 Chrysene	228	7.662	7.668	(1.002)	141285	7.75682	508.9777
20 Benzo(b)fluoranthene	252	8.468	8.474	(0.961)	160080	9.34442	613.1506
21 Benzo(k)fluoranthene	252	8.492	8.498	(0.964)	121664	7.34294	481.8199
22 Benzo(a)pyrene	252	8.750	8.756	(0.993)	105672	6.55187	429.9128
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.939	(1.127)	85747	5.59741	367.2844(M)
25 Dibenzo(a,h)anthracene	278	9.945	9.950	(1.129)	87970	6.21644	407.9031
26 Benzo(g,h,i)perylene	276	10.268	10.280	(1.166)	88762	5.67717	372.5176

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1CD10026.D

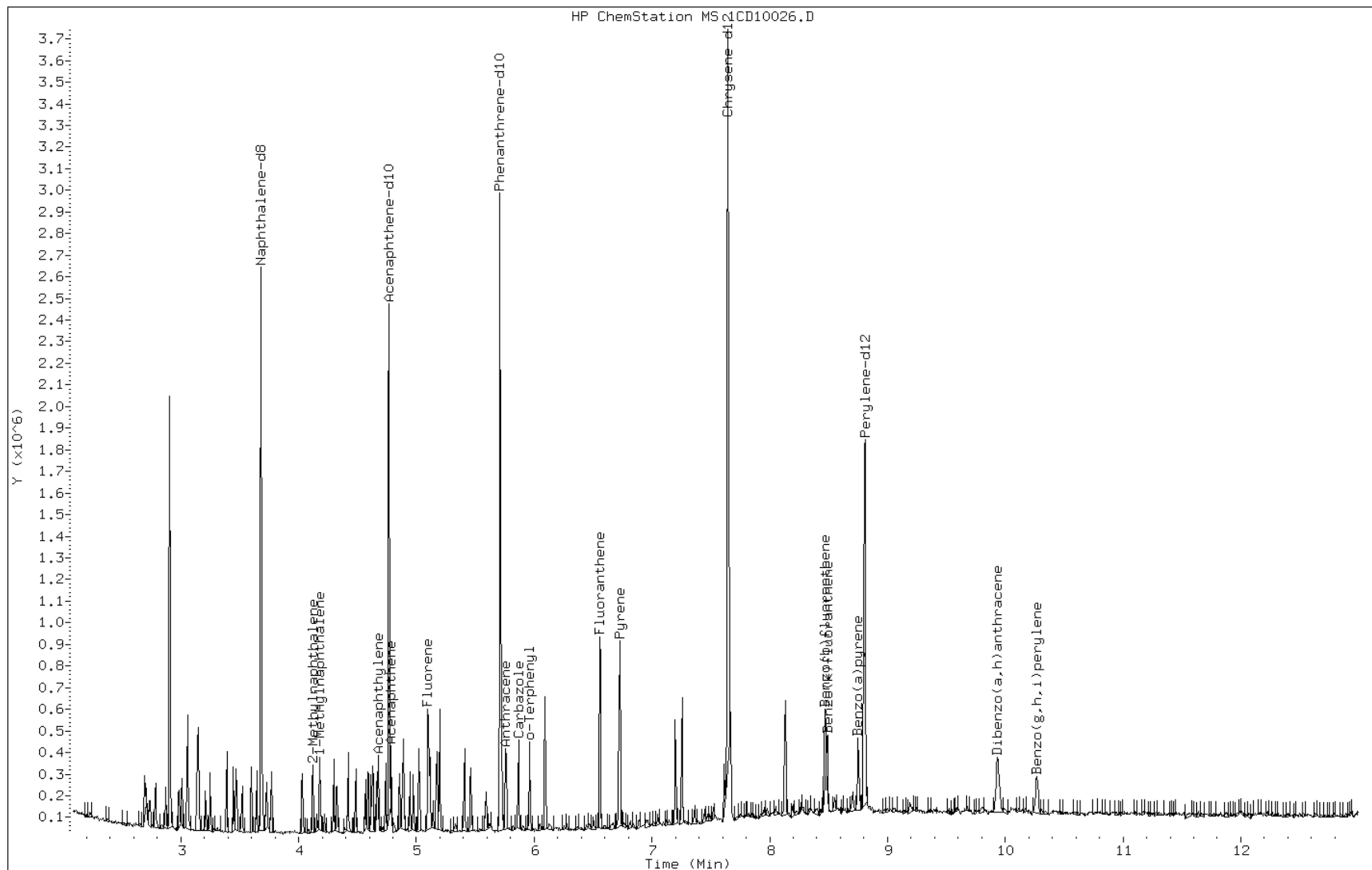
Date: 10-APR-2013 20:20

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88980-a-8-c msd

Operator: SCC

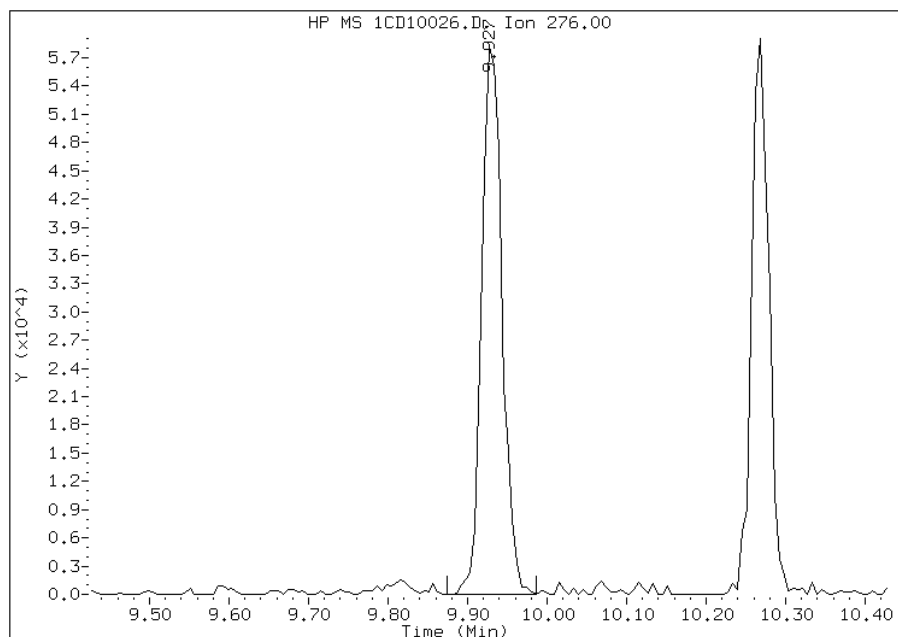


Manual Integration Report

Data File: 1CD10026.D
Inj. Date and Time: 10-APR-2013 20:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

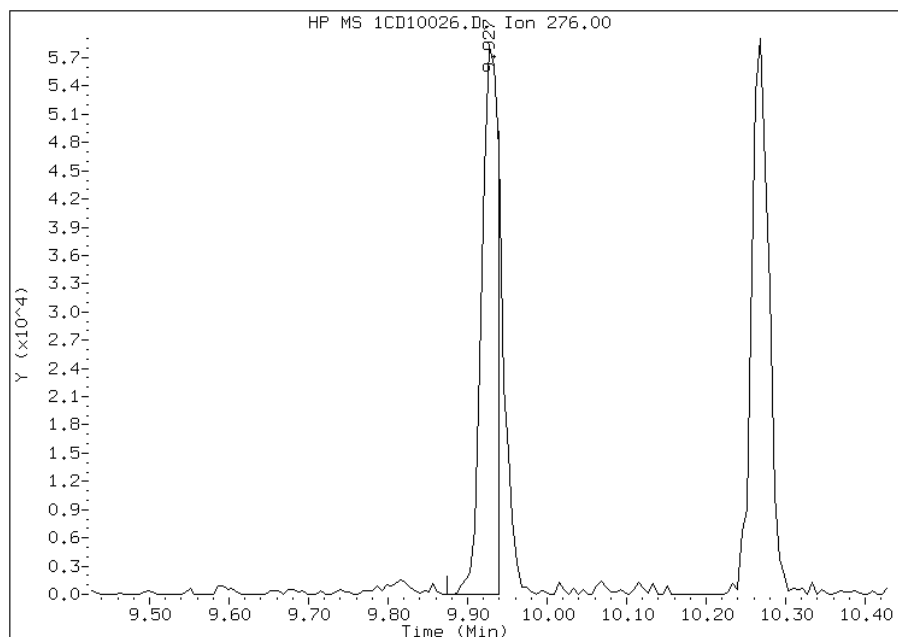
Processing Integration Results

RT: 9.93
Response: 103460
Amount: 7
Conc: 443



Manual Integration Results

RT: 9.93
Response: 85747
Amount: 6
Conc: 367



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:02
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88980-1
SDG No.: 68088980-1
Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54
Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250 (um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250 (um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250 (um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250 (um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250 (um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250 (um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250 (um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250 (um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250 (um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250 (um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250 (um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMC5973Start Date: 04/10/2013 11:17Analysis Batch Number: 136309End Date: 04/11/2013 00:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/10/2013 11:17	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 11:35	1		DB-5MS 250 (um)
DFTTP 660-136309/2		04/10/2013 11:53	1	1CD10002.D	DB-5MS 250 (um)
CCVIS 660-136309/3		04/10/2013 12:10	1	1CD10003.D	DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:28	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 12:47	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:05	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:24	1		DB-5MS 250 (um)
ZZZZZ		04/10/2013 13:42	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:00	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:19	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:37	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 14:55	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 15:42	4		DB-5MS 250 (um)
ZZZZZ		04/10/2013 16:05	1		DB-5MS 250 (um)
MB 660-136250/1-A		04/10/2013 16:58	1	1CD10015.D	DB-5MS 250 (um)
LCS 660-136250/2-A		04/10/2013 17:16	1	1CD10016.D	DB-5MS 250 (um)
680-88980-1	HP0176A-CS-SP	04/10/2013 17:35	1	1CD10017.D	DB-5MS 250 (um)
680-88980-2	HP0176B-CS-SP	04/10/2013 17:53	4	1CD10018.D	DB-5MS 250 (um)
680-88980-3	HP0257A-CS-SP	04/10/2013 18:11	1	1CD10019.D	DB-5MS 250 (um)
680-88980-4	HP0257B-CS-SP	04/10/2013 18:30	1	1CD10020.D	DB-5MS 250 (um)
680-88980-5	CV0380A-CS	04/10/2013 18:48	1	1CD10021.D	DB-5MS 250 (um)
680-88980-6	CV0380B-CS	04/10/2013 19:06	1	1CD10022.D	DB-5MS 250 (um)
680-88980-7	CV0666A-CS	04/10/2013 19:25	1	1CD10023.D	DB-5MS 250 (um)
680-88980-8	CV0666B-CS	04/10/2013 19:43	1	1CD10024.D	DB-5MS 250 (um)
680-88980-8 MS	CV0666B-CS MS	04/10/2013 20:02	1	1CD10025.D	DB-5MS 250 (um)
680-88980-8 MSD	CV0666B-CS MSD	04/10/2013 20:20	1	1CD10026.D	DB-5MS 250 (um)
680-88980-9	CV0668A-CS	04/10/2013 20:38	1	1CD10027.D	DB-5MS 250 (um)
680-88980-10	CV0668A-CSD	04/10/2013 20:57	1	1CD10028.D	DB-5MS 250 (um)
680-88980-11	CV0668B-CS	04/10/2013 21:15	1	1CD10029.D	DB-5MS 250 (um)
680-88980-12	CV0717A-CS	04/10/2013 21:33	1	1CD10030.D	DB-5MS 250 (um)
680-88980-13	CV0717B-CS	04/10/2013 21:52	1	1CD10031.D	DB-5MS 250 (um)
680-88980-14	HP0167A-CS-SP	04/10/2013 22:10	1	1CD10032.D	DB-5MS 250 (um)
680-88980-15	HP0167B-CS-SP	04/10/2013 22:29	1	1CD10033.D	DB-5MS 250 (um)
680-88980-16	CV0954A-CS-SP	04/10/2013 22:47	1	1CD10034.D	DB-5MS 250 (um)
680-88980-17	CV0954B-CS-SP	04/10/2013 23:05	1	1CD10035.D	DB-5MS 250 (um)
680-88980-18	CV0098A-CS	04/10/2013 23:24	4	1CD10036.D	DB-5MS 250 (um)
680-88980-19	CV0135A-CS	04/10/2013 23:42	1	1CD10037.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 00:00	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMD5973Start Date: 04/04/2013 11:04Analysis Batch Number: 136164End 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 TampaJob No.: 680-88980-1SDG No.: 68088980-1Instrument ID: BSMD5973Start Date: 04/11/2013 09:50Analysis Batch Number: 136371End 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)
DFTTP 660-136371/2		04/11/2013 10:37	1		DB-5MS 250 (um)
DFTTP 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)
680-88980-20	CV0135B-CS	04/11/2013 14:44	1	1DD11013.D	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)
ZZZZZ		04/11/2013 19:23	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:46	1		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 TampaJob No.: 680-88980-1SDG No.: 68088980-1Batch Number: 136250Batch Start Date: 04/09/13 09:40Batch Analyst: Cerome, SaurelBatch Method: 3546Batch End Date: 04/10/13 07:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136250/1		3546, 8270C LL		15.09 g	1 mL		1 mL		
LCS 660-136250/2		3546, 8270C LL		15.26 g	1 mL	1 mL	1 mL		
680-88980-A-1	HP0176A-CS-SP	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88980-A-2	HP0176B-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-88980-A-3	HP0257A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-88980-A-4	HP0257B-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-88980-A-5	CV0380A-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-88980-A-6	CV0380B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-88980-A-7	CV0666A-CS	3546, 8270C LL	T	15.32 g	1 mL		1 mL		
680-88980-A-8	CV0666B-CS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88980-A-8 MS	CV0666B-CS	3546, 8270C LL	T	15.10 g	1 mL	1 mL	1 mL		
680-88980-A-8 MSD	CV0666B-CS	3546, 8270C LL	T	15.24 g	1 mL	1 mL	1 mL		
680-88980-A-9	CV0668A-CS	3546, 8270C LL	T	15.45 g	1 mL		1 mL		
680-88980-A-10	CV0668A-CSD	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-88980-A-11	CV0668B-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-88980-A-12	CV0717A-CS	3546, 8270C LL	T	14.90 g	1 mL		1 mL		
680-88980-A-13	CV0717B-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-88980-A-14	HP0167A-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88980-A-15	HP0167B-CS-SP	3546, 8270C LL	T	15.27 g	1 mL		1 mL		
680-88980-A-16	CV0954A-CS-SP	3546, 8270C LL	T	15.14 g	1 mL		1 mL		
680-88980-A-17	CV0954B-CS-SP	3546, 8270C LL	T	15.06 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Batch Number: 136250 Batch Start Date: 04/09/13 09:40 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/10/13 07:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
680-88980-A-18	CV0098A-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88980-A-19	CV0135A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88980-A-20	CV0135B-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		

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 67
Microwave Start Time	12:20 4/9/13
Microwave Stop Time	12:55 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.

8270C LL

Page 2 of 2

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-1
SDG No.: 68088980-1
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
HP0176A-CS-SP	680-88980-1
HP0176B-CS-SP	680-88980-2
HP0257A-CS-SP	680-88980-3
HP0257B-CS-SP	680-88980-4
CV0380A-CS	680-88980-5
CV0380B-CS	680-88980-6
CV0666A-CS	680-88980-7
CV0666B-CS	680-88980-8
CV0668A-CS	680-88980-9
CV0668A-CSD	680-88980-10
CV0668B-CS	680-88980-11
CV0717A-CS	680-88980-12
CV0717B-CS	680-88980-13
HP0167A-CS-SP	680-88980-14
HP0167B-CS-SP	680-88980-15
CV0954A-CS-SP	680-88980-16
CV0954B-CS-SP	680-88980-17
CV0098A-CS	680-88980-18
CV0135A-CS	680-88980-19
CV0135B-CS	680-88980-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-1
SDG Number: 68088980-1
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88980-1
SDG Number: 68088980-1
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1

SDG No.: 68088980-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/08/2013 13:01 End Date: 04/08/2013 13:01

[illegible]

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88980-1

SDG No.: 68088980-1

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															
ZZZZZZ			13:01																
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88980-1SDG No.: 68088980-1Batch Number: 136226 Batch Start Date: 04/08/13 13:01 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88980-A-1	HP0176A-CS-SP	Moisture	T	1	0 g	5.76 g	2.97 g		
680-88980-A-2	HP0176B-CS-SP	Moisture	T	2	0 g	5.91 g	3.59 g		
680-88980-A-3	HP0257A-CS-SP	Moisture	T	3	0 g	5.04 g	2.96 g		
680-88980-A-4	HP0257B-CS-SP	Moisture	T	4	0 g	4.43 g	2.76 g		
680-88980-A-5	CV0380A-CS	Moisture	T	5	0 g	4.57 g	2.76 g		
680-88980-A-6	CV0380B-CS	Moisture	T	6	0 g	4.68 g	2.67 g		
680-88980-A-7	CV0666A-CS	Moisture	T	7	0 g	4.83 g	2.64 g		
680-88980-A-8	CV0666B-CS	Moisture	T	8	0 g	4.24 g	2.27 g		
680-88980-A-8 MS	CV0666B-CS	Moisture	T	8	0 g	4.24 g	2.27 g		
680-88980-A-8 MSD	CV0666B-CS	Moisture	T	8	0 g	4.24 g	2.27 g		
680-88980-A-9	CV0668A-CS	Moisture	T	9	0 g	5.71 g	3.65 g		
680-88980-A-10	CV0668A-CSD	Moisture	T	10	0 g	4.92 g	3.78 g		
680-88980-A-11	CV0668B-CS	Moisture	T	11	0 g	5.64 g	3.36 g		
680-88980-A-12	CV0717A-CS	Moisture	T	12	0 g	4.52 g	2.78 g		
680-88980-A-13	CV0717B-CS	Moisture	T	13	0 g	4.41 g	2.91 g		
680-88980-A-14	HP0167A-CS-SP	Moisture	T	14	0 g	4.12 g	2.70 g		
680-88980-A-15	HP0167B-CS-SP	Moisture	T	15	0 g	4.71 g	2.99 g		
680-88980-A-16	CV0954A-CS-SP	Moisture	T	16	0 g	4.68 g	2.83 g		
680-88980-A-17	CV0954B-CS-SP	Moisture	T	17	0 g	6.36 g	3.96 g		
680-88980-A-18	CV0098A-CS	Moisture	T	18	0 g	4.52 g	3.64 g		
680-88980-A-19	CV0135A-CS	Moisture	T	19	0 g	5.80 g	4.17 g		
680-88980-A-20	CV0135B-CS	Moisture	T	20	0 g	4.72 g	2.99 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

Page 1 of 1

Shipping and Receiving Documents

Serial Number 63545

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	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 PHA4	Zn & 8 Metals								STANDARD REPORT DELIVERY ☐	DATE DUE _____
																		EXPEDITED REPORT DELIVERY (SURCHARGE) ☐	DATE DUE _____
CLIENT ADDRESS 1220 Kennestone Circle Marietta, Ga								PRESERVATIVE								NUMBER OF COOLERS SUBMITTED PER SHIPMENT:			
COMPANY CONTRACTING THIS WORK (if applicable)																			
SAMPLE		SAMPLE IDENTIFICATION				NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME																		
4-2-13	1000	HP0176A-CS-SP				C	X			X									
	1010	HP0176B-CS-SP				C	X			X									
	0920	HP0257A-CS-SP				C	X			X									
	0930	HP0257B-CS-SP				C	X			X									
	0940	CV0380A-CS				C	X			X									
	0948	CV0380B-CS				C	X			X									
	0910	CV0666A-CS				C	X			X									
	0917	CV0666B-CS				C	X			X	X								
	0840	CV0668A-CS				C	X			X									
	0842	CV0668A-CSD				C	X			X									
	0848	CV0668B-CS				C	X			X									
	1020	CV0717A-CS				C	X			X									
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME				
[Signature]		4-3-13	11:00																
RECEIVED 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)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88980	LABORATORY REMARKS 2-8												
[Signature]		04/04/13	0952																

Serial Number 63546

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	REQUIRED ANALYSIS										PAGE 2 OF 3				
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLP44									STANDARD REPORT DELIVERY ☐	DATE DUE _____
																		EXPEDITED REPORT DELIVERY (SURCHARGE) ☐	DATE DUE _____
COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE										NUMBER OF COOLERS SUBMITTED PER SHIPMENT:					
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED										REMARKS					
DATE	TIME																		
4-2-13	1026	CV6717B-CS		C	X														
	1235	HP0167A-CS-SP		C	X				X										
	1245	HP0167B-CS-SP		C	X				X										
	1345	CV0954A-CS-SP		C	X				X										
	1355	CV0954B-CS-SP		C	X				X										
	1350	CV0098A-CS		C	X				X										
	1215	CV0135A-CS		C	X				X										
	1220	CV0135B-CS		C	X				X										
	1320	CV0151A-CS		C	X				X										
	1325	CV0151A-CSD		C	X				X										
	1333	CV0151B-CS		C	X				X										
	1455	CV1236A-CS		C	X				X										
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME				
		4-3-13	11:00																
RECEIVED 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)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88980	LABORATORY REMARKS 2-8c												
		04/04/13	0952																

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

List Source: TestAmerica Savannah

List Number: 1

Creator: Barnett, Eddie T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

List Source: TestAmerica Tampa

List Number: 1

List Creation: 04/08/13 12:35 PM

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

List Source: TestAmerica Tampa

List Number: 3

List Creation: 04/12/13 08:13 AM

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88980-1

TestAmerica Sample Delivery Group: 68088980-1

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:

4/12/2013 3:34:01 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

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.

Case Narrative

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Job ID: 680-88980-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88980-1

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 04/04/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C. The samples were repackaged and shipped to the TestAmerica Tampa facility where the cooler was received cooler in Tampa on 4/8/13 at 11.5 C. FEDEX did not deliver on Friday 04/05/2013 as requested. The cooler was delivered on the next standard delivery day. Client was notified.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples HP0176A-CS-SP (680-88980-1), HP0176B-CS-SP (680-88980-2), HP0257A-CS-SP (680-88980-3), HP0257B-CS-SP (680-88980-4), CV0380A-CS (680-88980-5), CV0380B-CS (680-88980-6), CV0666A-CS (680-88980-7), CV0666B-CS (680-88980-8), CV0668A-CS (680-88980-9), CV0668A-CSD (680-88980-10), CV0668B-CS (680-88980-11), CV0717A-CS (680-88980-12), CV0717B-CS (680-88980-13), HP0167A-CS-SP (680-88980-14), HP0167B-CS-SP (680-88980-15), CV0954A-CS-SP (680-88980-16), CV0954B-CS-SP (680-88980-17), CV0098A-CS (680-88980-18), CV0135A-CS (680-88980-19) and CV0135B-CS (680-88980-20) 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 04/10/2013 and 04/11/2013.

Samples HP0176B-CS-SP (680-88980-2)[4X] and CV0098A-CS (680-88980-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene exceeded the rpd limit for the MSD of sample CV0666B-CS (680-88980-8) in batch 660-136309.

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: 680-88980-1
SDG: 68088980-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88980-1	HP0176A-CS-SP	Solid	04/02/13 10:00	04/04/13 09:52
680-88980-2	HP0176B-CS-SP	Solid	04/02/13 10:10	04/04/13 09:52
680-88980-3	HP0257A-CS-SP	Solid	04/02/13 09:20	04/04/13 09:52
680-88980-4	HP0257B-CS-SP	Solid	04/02/13 09:30	04/04/13 09:52
680-88980-5	CV0380A-CS	Solid	04/02/13 09:40	04/04/13 09:52
680-88980-6	CV0380B-CS	Solid	04/02/13 09:48	04/04/13 09:52
680-88980-7	CV0666A-CS	Solid	04/02/13 09:10	04/04/13 09:52
680-88980-8	CV0666B-CS	Solid	04/02/13 09:17	04/04/13 09:52
680-88980-9	CV0668A-CS	Solid	04/02/13 08:40	04/04/13 09:52
680-88980-10	CV0668A-CSD	Solid	04/02/13 08:42	04/04/13 09:52
680-88980-11	CV0668B-CS	Solid	04/02/13 08:48	04/04/13 09:52
680-88980-12	CV0717A-CS	Solid	04/02/13 10:20	04/04/13 09:52
680-88980-13	CV0717B-CS	Solid	04/02/13 10:26	04/04/13 09:52
680-88980-14	HP0167A-CS-SP	Solid	04/02/13 12:35	04/04/13 09:52
680-88980-15	HP0167B-CS-SP	Solid	04/02/13 12:45	04/04/13 09:52
680-88980-16	CV0954A-CS-SP	Solid	04/02/13 13:45	04/04/13 09:52
680-88980-17	CV0954B-CS-SP	Solid	04/02/13 13:55	04/04/13 09:52
680-88980-18	CV0098A-CS	Solid	04/02/13 13:50	04/04/13 09:52
680-88980-19	CV0135A-CS	Solid	04/02/13 12:15	04/04/13 09:52
680-88980-20	CV0135B-CS	Solid	04/02/13 12:20	04/04/13 09:52

Method Summary

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

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: 680-88980-1
SDG: 68088980-1

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0176A-CS-SP

Lab Sample ID: 680-88980-1

Date Collected: 04/02/13 10:00

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 51.6

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 09:40	04/10/13 17:35	1
Acenaphthylene	77	U	77	9.6	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Anthracene	16	U	16	8.1	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Benzo[a]anthracene	15	U	15	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Benzo[a]pyrene	25		20	10	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Benzo[b]fluoranthene	28		23	12	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Benzo[g,h,i]perylene	18	J	38	8.4	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Benzo[k]fluoranthene	16		15	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Chrysene	20		17	8.6	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Dibenz(a,h)anthracene	38	U	38	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Fluoranthene	26	J	38	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Fluorene	38	U	38	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Indeno[1,2,3-cd]pyrene	38	U	38	14	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
1-Methylnaphthalene	10	J	77	8.4	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
2-Methylnaphthalene	23	J	77	14	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Naphthalene	26	J	77	8.4	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Phenanthrene	20		15	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Pyrene	26	J	38	7.1	ug/Kg	☼	04/09/13 09:40	04/10/13 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/09/13 09:40	04/10/13 17:35	1

Client Sample ID: HP0176B-CS-SP

Lab Sample ID: 680-88980-2

Date Collected: 04/02/13 10:10

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	650	U	650	130	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Acenaphthylene	260	U	260	33	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Anthracene	55	U	55	27	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Benzo[a]anthracene	52	U	52	25	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Benzo[a]pyrene	100		68	34	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Benzo[b]fluoranthene	95		80	40	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Benzo[g,h,i]perylene	57	J	130	29	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Benzo[k]fluoranthene	55		52	24	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Chrysene	80		59	29	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Dibenz(a,h)anthracene	37	J	130	27	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Fluoranthene	140		130	26	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Fluorene	130	U	130	27	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Indeno[1,2,3-cd]pyrene	130	U	130	46	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
1-Methylnaphthalene	260	U	260	29	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
2-Methylnaphthalene	260	U	260	46	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Naphthalene	35	J	260	29	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Phenanthrene	120		52	25	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Pyrene	130		130	24	ug/Kg	☼	04/09/13 09:40	04/10/13 17:53	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	115		30 - 130				04/09/13 09:40	04/10/13 17:53	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0257A-CS-SP

Lab Sample ID: 680-88980-3

Date Collected: 04/02/13 09:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 58.7

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 09:40	04/10/13 18:11	1
Acenaphthylene	68	U	68	8.5	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Anthracene	14	U	14	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Benzo[a]anthracene	14	U	14	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Benzo[a]pyrene	18	U	18	8.9	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Benzo[b]fluoranthene	12	J	21	10	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Benzo[g,h,i]perylene	34	U	34	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Benzo[k]fluoranthene	14	U	14	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Chrysene	15	U	15	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Dibenz(a,h)anthracene	34	U	34	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Fluoranthene	34	U	34	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Fluorene	34	U	34	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Indeno[1,2,3-cd]pyrene	34	U	34	12	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
1-Methylnaphthalene	68	U	68	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
2-Methylnaphthalene	68	U	68	12	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Naphthalene	11	J	68	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Phenanthrene	14	U	14	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Pyrene	34	U	34	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130				04/09/13 09:40	04/10/13 18:11	1

Client Sample ID: HP0257B-CS-SP

Lab Sample ID: 680-88980-4

Date Collected: 04/02/13 09:30

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 62.3

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	32	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Acenaphthylene	65	U	65	8.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Anthracene	14	U	14	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Benzo[a]anthracene	13	U	13	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Benzo[a]pyrene	12	J	17	8.4	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Benzo[b]fluoranthene	15	J	20	9.8	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Benzo[g,h,i]perylene	32	U	32	7.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Benzo[k]fluoranthene	13	U	13	5.8	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Chrysene	7.5	J	15	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Fluoranthene	6.9	J	32	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Fluorene	32	U	32	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
1-Methylnaphthalene	12	J	65	7.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
2-Methylnaphthalene	14	J	65	11	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Naphthalene	12	J	65	7.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Phenanthrene	8.5	J	13	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Pyrene	32	U	32	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/09/13 09:40	04/10/13 18:30	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0380A-CS

Lab Sample ID: 680-88980-5

Date Collected: 04/02/13 09:40

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.4

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 09:40	04/10/13 18:48	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Benzo[a]pyrene	25		17	8.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Benzo[b]fluoranthene	34		20	10	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Benzo[g,h,i]perylene	15 J		33	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Benzo[k]fluoranthene	20		13	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Chrysene	38		15	7.4	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Dibenz(a,h)anthracene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Fluoranthene	55		33	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Indeno[1,2,3-cd]pyrene	19 J		33	12	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
1-Methylnaphthalene	29 J		66	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
2-Methylnaphthalene	35 J		66	12	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Naphthalene	43 J		66	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Phenanthrene	46		13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Pyrene	44		33	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				04/09/13 09:40	04/10/13 18:48	1

Client Sample ID: CV0380B-CS

Lab Sample ID: 680-88980-6

Date Collected: 04/02/13 09:48

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 57.1

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 09:40	04/10/13 19:06	1
Acenaphthylene	70	U	70	8.8	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Anthracene	15	U	15	7.4	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Benzo[a]anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Benzo[a]pyrene	15 J		18	9.1	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Benzo[b]fluoranthene	13 J		21	11	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Benzo[g,h,i]perylene	35	U	35	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Benzo[k]fluoranthene	16		14	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Chrysene	23		16	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Dibenz(a,h)anthracene	35	U	35	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Fluoranthene	19 J		35	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Fluorene	35	U	35	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Indeno[1,2,3-cd]pyrene	35	U	35	12	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
1-Methylnaphthalene	14 J		70	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
2-Methylnaphthalene	70	U	70	12	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Naphthalene	17 J		70	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Phenanthrene	19		14	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Pyrene	20 J		35	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		30 - 130				04/09/13 09:40	04/10/13 19:06	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0666A-CS

Lab Sample ID: 680-88980-7

Date Collected: 04/02/13 09:10

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 54.7

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	36	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Acenaphthylene	72	U	72	9.0	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Anthracene	15	U	15	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Benzo[a]anthracene	14	U	14	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Benzo[a]pyrene	15	J	19	9.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Benzo[b]fluoranthene	30		22	11	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Benzo[g,h,i]perylene	26	J	36	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Benzo[k]fluoranthene	7.9	J	14	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Chrysene	23		16	8.1	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Dibenz(a,h)anthracene	36	U	36	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Fluoranthene	33	J	36	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Fluorene	36	U	36	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Indeno[1,2,3-cd]pyrene	36	U	36	13	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
1-Methylnaphthalene	22	J	72	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
2-Methylnaphthalene	27	J	72	13	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Naphthalene	24	J	72	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Phenanthrene	35		14	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Pyrene	37		36	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				04/09/13 09:40	04/10/13 19:25	1

Client Sample ID: CV0666B-CS

Lab Sample ID: 680-88980-8

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

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	37	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Acenaphthylene	46	J	74	9.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Anthracene	43		16	7.8	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Benzo[a]anthracene	210		15	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Benzo[a]pyrene	160		19	9.7	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Benzo[b]fluoranthene	260		23	11	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Benzo[g,h,i]perylene	110		37	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Benzo[k]fluoranthene	160		15	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Chrysene	160		17	8.4	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Dibenz(a,h)anthracene	46		37	7.6	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Fluoranthene	300	F	37	7.4	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Fluorene	37	U	37	7.6	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Indeno[1,2,3-cd]pyrene	89		37	13	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
1-Methylnaphthalene	21	J	74	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
2-Methylnaphthalene	19	J	74	13	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Naphthalene	33	J	74	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Phenanthrene	92		15	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Pyrene	300		37	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/09/13 09:40	04/10/13 19:43	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0668A-CS

Lab Sample ID: 680-88980-9

Date Collected: 04/02/13 08:40

Matrix: Solid

Date Received: 04/04/13 09:52

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	150	U	150	30	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Acenaphthylene	61	U	61	7.6	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Anthracene	13	U	13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Benzo[a]anthracene	12	U	12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Benzo[a]pyrene	13	J	16	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Benzo[b]fluoranthene	27		19	9.3	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Benzo[g,h,i]perylene	11	J	30	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Benzo[k]fluoranthene	7.2	J	12	5.5	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Chrysene	21		14	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Dibenz(a,h)anthracene	6.7	J	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Fluoranthene	32		30	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Fluorene	30	U	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Indeno[1,2,3-cd]pyrene	30	U	30	11	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
1-Methylnaphthalene	16	J	61	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
2-Methylnaphthalene	61	U	61	11	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Naphthalene	15	J	61	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Phenanthrene	21		12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Pyrene	20	J	30	5.6	ug/Kg	☼	04/09/13 09:40	04/10/13 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				04/09/13 09:40	04/10/13 20:38	1

Client Sample ID: CV0668A-CSD

Lab Sample ID: 680-88980-10

Date Collected: 04/02/13 08:42

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Anthracene	19		11	5.4	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Benzo[a]anthracene	72		10	5.1	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Benzo[a]pyrene	56		13	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Benzo[b]fluoranthene	85		16	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Benzo[g,h,i]perylene	49		26	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Benzo[k]fluoranthene	53		10	4.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Chrysene	89		12	5.8	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Dibenz(a,h)anthracene	17	J	26	5.3	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Fluoranthene	120		26	5.2	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Fluorene	7.5	J	26	5.3	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Indeno[1,2,3-cd]pyrene	49		26	9.2	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
1-Methylnaphthalene	50	J	52	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
2-Methylnaphthalene	40	J	52	9.2	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Naphthalene	56		52	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Phenanthrene	75		10	5.1	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Pyrene	82		26	4.8	ug/Kg	☼	04/09/13 09:40	04/10/13 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		30 - 130				04/09/13 09:40	04/10/13 20:57	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0668B-CS

Lab Sample ID: 680-88980-11

Date Collected: 04/02/13 08:48

Matrix: Solid

Date Received: 04/04/13 09:52

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	33	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Acenaphthylene	9.5	J	66	8.3	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Anthracene	14	U	14	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Benzo[a]anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Benzo[a]pyrene	18		17	8.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Benzo[b]fluoranthene	34		20	10	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Benzo[g,h,i]perylene	12	J	33	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Benzo[k]fluoranthene	13		13	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Chrysene	19		15	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Dibenz(a,h)anthracene	11	J	33	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Fluoranthene	27	J	33	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Fluorene	33	U	33	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Indeno[1,2,3-cd]pyrene	13	J	33	12	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
1-Methylnaphthalene	11	J	66	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
2-Methylnaphthalene	24	J	66	12	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Naphthalene	26	J	66	7.3	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Phenanthrene	24		13	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Pyrene	17	J	33	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				04/09/13 09:40	04/10/13 21:15	1

Client Sample ID: CV0717A-CS

Lab Sample ID: 680-88980-12

Date Collected: 04/02/13 10:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 61.5

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 09:40	04/10/13 21:33	1
Acenaphthylene	65	U	65	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Benzo[a]pyrene	24		17	8.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Benzo[b]fluoranthene	40		20	10	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Benzo[g,h,i]perylene	21	J	33	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Benzo[k]fluoranthene	18		13	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Chrysene	28		15	7.4	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Dibenz(a,h)anthracene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Fluoranthene	46		33	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Indeno[1,2,3-cd]pyrene	22	J	33	12	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
1-Methylnaphthalene	11	J	65	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
2-Methylnaphthalene	16	J	65	12	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Naphthalene	34	J	65	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Phenanthrene	31		13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Pyrene	37		33	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				04/09/13 09:40	04/10/13 21:33	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0717B-CS

Lab Sample ID: 680-88980-13

Date Collected: 04/02/13 10:26

Matrix: Solid

Date Received: 04/04/13 09:52

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	150	U	150	30	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Acenaphthylene	14	J	60	7.5	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Anthracene	21		13	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Benzo[a]anthracene	86		12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Benzo[a]pyrene	70		16	7.8	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Benzo[b]fluoranthene	100		18	9.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Benzo[g,h,i]perylene	34		30	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Benzo[k]fluoranthene	81		12	5.4	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Chrysene	100		14	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Dibenz(a,h)anthracene	25	J	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Fluoranthene	63		30	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Fluorene	30	U	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Indeno[1,2,3-cd]pyrene	29	J	30	11	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
1-Methylnaphthalene	14	J	60	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
2-Methylnaphthalene	14	J	60	11	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Naphthalene	35	J	60	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Phenanthrene	19		12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1
Pyrene	83		30	5.6	ug/Kg	☼	04/09/13 09:40	04/10/13 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130	04/09/13 09:40	04/10/13 21:52	1

Client Sample ID: HP0167A-CS-SP

Lab Sample ID: 680-88980-14

Date Collected: 04/02/13 12:35

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 65.5

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 09:40	04/10/13 22:10	1
Acenaphthylene	60	U	60	7.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Anthracene	13	U	13	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Benzo[a]anthracene	12	U	12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Benzo[a]pyrene	16		16	7.9	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Benzo[b]fluoranthene	21		18	9.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Benzo[g,h,i]perylene	17	J	30	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Benzo[k]fluoranthene	8.0	J	12	5.4	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Chrysene	16		14	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Dibenz(a,h)anthracene	30	U	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Fluoranthene	17	J	30	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Fluorene	30	U	30	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Indeno[1,2,3-cd]pyrene	30	U	30	11	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
1-Methylnaphthalene	7.6	J	60	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
2-Methylnaphthalene	14	J	60	11	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Naphthalene	24	J	60	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Phenanthrene	16		12	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1
Pyrene	21	J	30	5.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130	04/09/13 09:40	04/10/13 22:10	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0167B-CS-SP

Lab Sample ID: 680-88980-15

Date Collected: 04/02/13 12:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.5

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 09:40	04/10/13 22:29	1
Acenaphthylene	62	U	62	7.7	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Anthracene	13	U	13	6.5	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Benzo[a]anthracene	12	U	12	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Benzo[a]pyrene	11	J	16	8.0	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Benzo[b]fluoranthene	13	J	19	9.4	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Benzo[g,h,i]perylene	31	U	31	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Benzo[k]fluoranthene	9.6	J	12	5.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Chrysene	14	U	14	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Dibenz(a,h)anthracene	31	U	31	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Fluoranthene	13	J	31	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Fluorene	31	U	31	6.3	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Indeno[1,2,3-cd]pyrene	31	U	31	11	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
1-Methylnaphthalene	62	U	62	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
2-Methylnaphthalene	29	J	62	11	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Naphthalene	15	J	62	6.8	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Phenanthrene	6.8	J	12	6.0	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1
Pyrene	14	J	31	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130	04/09/13 09:40	04/10/13 22:29	1

Client Sample ID: CV0954A-CS-SP

Lab Sample ID: 680-88980-16

Date Collected: 04/02/13 13:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.5

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 09:40	04/10/13 22:47	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Anthracene	14	U	14	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Benzo[a]anthracene	13	U	13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Benzo[a]pyrene	24		17	8.5	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Benzo[b]fluoranthene	38		20	10	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Benzo[g,h,i]perylene	23	J	33	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Benzo[k]fluoranthene	25		13	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Chrysene	34		15	7.4	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Dibenz(a,h)anthracene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Fluoranthene	27	J	33	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Fluorene	33	U	33	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Indeno[1,2,3-cd]pyrene	14	J	33	12	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
1-Methylnaphthalene	10	J	66	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
2-Methylnaphthalene	14	J	66	12	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Naphthalene	66	U	66	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Phenanthrene	47		13	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1
Pyrene	53		33	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130	04/09/13 09:40	04/10/13 22:47	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0954B-CS-SP

Lab Sample ID: 680-88980-17

Date Collected: 04/02/13 13:55

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 62.3

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	32	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Acenaphthylene	64	U	64	8.0	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Anthracene	13	U	13	6.7	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Benzo[a]anthracene	13	U	13	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Benzo[a]pyrene	12	J	17	8.3	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Benzo[b]fluoranthene	19	J	20	9.8	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Benzo[g,h,i]perylene	32	U	32	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Benzo[k]fluoranthene	13	U	13	5.8	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Chrysene	10	J	14	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Dibenz(a,h)anthracene	32	U	32	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Fluoranthene	23	J	32	6.4	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Fluorene	32	U	32	6.6	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Indeno[1,2,3-cd]pyrene	32	U	32	11	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
1-Methylnaphthalene	64	U	64	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
2-Methylnaphthalene	64	U	64	11	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Naphthalene	10	J	64	7.0	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Phenanthrene	11	J	13	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Pyrene	24	J	32	5.9	ug/Kg	☼	04/09/13 09:40	04/10/13 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	77		30 - 130				04/09/13 09:40	04/10/13 23:05	1

Client Sample ID: CV0098A-CS

Lab Sample ID: 680-88980-18

Date Collected: 04/02/13 13:50

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 80.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Acenaphthylene	67	J	200	25	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Anthracene	130		41	21	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Benzo[a]anthracene	570		39	19	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Benzo[a]pyrene	310		51	26	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Benzo[b]fluoranthene	910		60	30	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Benzo[g,h,i]perylene	420		98	22	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Benzo[k]fluoranthene	430		39	18	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Chrysene	660		44	22	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Dibenz(a,h)anthracene	120		98	20	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Fluoranthene	710		98	20	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Fluorene	29	J	98	20	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Indeno[1,2,3-cd]pyrene	220		98	35	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
1-Methylnaphthalene	37	J	200	22	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
2-Methylnaphthalene	84	J	200	35	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Naphthalene	59	J	200	22	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Phenanthrene	130		39	19	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Pyrene	1500		98	18	ug/Kg	☼	04/09/13 09:40	04/10/13 23:24	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	81		30 - 130				04/09/13 09:40	04/10/13 23:24	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0135A-CS

Lab Sample ID: 680-88980-19

Date Collected: 04/02/13 12:15

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 71.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Acenaphthylene	7.0	J	55	6.9	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Anthracene	7.4	J	12	5.8	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Benzo[a]anthracene	57		11	5.4	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Benzo[a]pyrene	29		14	7.2	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Benzo[b]fluoranthene	39		17	8.5	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Benzo[g,h,i]perylene	24	J	28	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Benzo[k]fluoranthene	11		11	5.0	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Chrysene	35		12	6.2	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Dibenz(a,h)anthracene	8.6	J	28	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Fluoranthene	51		28	5.5	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Fluorene	28	U	28	5.7	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Indeno[1,2,3-cd]pyrene	21	J	28	9.8	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
1-Methylnaphthalene	55	U	55	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
2-Methylnaphthalene	11	J	55	9.8	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Naphthalene	12	J	55	6.1	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Phenanthrene	33		11	5.4	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Pyrene	53		28	5.1	ug/Kg	☼	04/09/13 09:40	04/10/13 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	45		30 - 130				04/09/13 09:40	04/10/13 23:42	1

Client Sample ID: CV0135B-CS

Lab Sample ID: 680-88980-20

Date Collected: 04/02/13 12:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Acenaphthylene	63	U	63	7.8	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Anthracene	6.6	J	13	6.6	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Benzo[a]anthracene	31		13	6.1	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Benzo[a]pyrene	23		16	8.2	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Benzo[b]fluoranthene	38		19	9.6	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Benzo[g,h,i]perylene	20	J	31	6.9	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Benzo[k]fluoranthene	15		13	5.6	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Chrysene	22		14	7.1	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Dibenz(a,h)anthracene	31	U	31	6.4	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Fluoranthene	44		31	6.3	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Fluorene	31	U	31	6.4	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Indeno[1,2,3-cd]pyrene	18	J	31	11	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
1-Methylnaphthalene	8.5	J	63	6.9	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
2-Methylnaphthalene	63	U	63	11	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Naphthalene	11	J	63	6.9	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Phenanthrene	26		13	6.1	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Pyrene	35		31	5.8	ug/Kg	☼	04/09/13 09:40	04/11/13 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				04/09/13 09:40	04/11/13 14:44	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

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

Lab Sample ID: MB 660-136250/1-A

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Fluorene	20	U	20	4.1	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Naphthalene	40	U	40	4.4	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/09/13 09:40	04/10/13 16:58	1
Pyrene	20	U	20	3.7	ug/Kg		04/09/13 09:40	04/10/13 16:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130	04/09/13 09:40	04/10/13 16:58	1

Lab Sample ID: LCS 660-136250/2-A

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	655	410		ug/Kg		62	39 - 130
Acenaphthylene	655	421		ug/Kg		64	38 - 130
Anthracene	655	416		ug/Kg		63	37 - 130
Benzo[a]anthracene	655	442		ug/Kg		67	40 - 130
Benzo[a]pyrene	655	387		ug/Kg		59	49 - 130
Benzo[b]fluoranthene	655	369		ug/Kg		56	37 - 130
Benzo[g,h,i]perylene	655	365		ug/Kg		56	32 - 130
Benzo[k]fluoranthene	655	480		ug/Kg		73	32 - 130
Chrysene	655	408		ug/Kg		62	41 - 130
Dibenz(a,h)anthracene	655	448		ug/Kg		68	27 - 130
Fluoranthene	655	448		ug/Kg		68	40 - 130
Fluorene	655	400		ug/Kg		61	40 - 130
Indeno[1,2,3-cd]pyrene	655	347		ug/Kg		53	30 - 130
1-Methylnaphthalene	655	448		ug/Kg		68	31 - 130
2-Methylnaphthalene	655	408		ug/Kg		62	33 - 130
Naphthalene	655	396		ug/Kg		60	36 - 130
Phenanthrene	655	418		ug/Kg		64	42 - 130
Pyrene	655	448		ug/Kg		68	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

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

Lab Sample ID: LCS 660-136250/2-A

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136250

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	63		30 - 130

Lab Sample ID: 680-88980-8 MS

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: CV0666B-CS

Prep Type: Total/NA

Prep Batch: 136250

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acenaphthene	190	U	1240	801		ug/Kg	☼	65	39 - 130		
Acenaphthylene	46	J	1240	860		ug/Kg	☼	66	38 - 130		
Anthracene	43		1240	864		ug/Kg	☼	66	37 - 130		
Benzo[a]anthracene	210		1240	972		ug/Kg	☼	62	40 - 130		
Benzo[a]pyrene	160		1240	912		ug/Kg	☼	61	49 - 130		
Benzo[b]fluoranthene	260		1240	1090		ug/Kg	☼	67	37 - 130		
Benzo[g,h,i]perylene	110		1240	841		ug/Kg	☼	59	32 - 130		
Benzo[k]fluoranthene	160		1240	1010		ug/Kg	☼	68	32 - 130		
Chrysene	160		1240	922		ug/Kg	☼	62	41 - 130		
Dibenz(a,h)anthracene	46		1240	868		ug/Kg	☼	66	27 - 130		
Fluoranthene	300	F	1240	1040		ug/Kg	☼	60	40 - 130		
Fluorene	37	U	1240	811		ug/Kg	☼	66	40 - 130		
Indeno[1,2,3-cd]pyrene	89		1240	865		ug/Kg	☼	63	30 - 130		
1-Methylnaphthalene	21	J	1240	775		ug/Kg	☼	61	31 - 130		
2-Methylnaphthalene	19	J	1240	677		ug/Kg	☼	53	33 - 130		
Naphthalene	33	J	1240	753		ug/Kg	☼	58	36 - 130		
Phenanthrene	92		1240	891		ug/Kg	☼	65	42 - 130		
Pyrene	300		1240	1150		ug/Kg	☼	69	44 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
o-Terphenyl	63		30 - 130								

Lab Sample ID: 680-88980-8 MSD

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: CV0666B-CS

Prep Type: Total/NA

Prep Batch: 136250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	190	U	1230	583		ug/Kg	☼	48	39 - 130	31	40
Acenaphthylene	46	J	1230	746		ug/Kg	☼	57	38 - 130	14	40
Anthracene	43		1230	756		ug/Kg	☼	58	37 - 130	13	40
Benzo[a]anthracene	210		1230	1210		ug/Kg	☼	82	40 - 130	22	40
Benzo[a]pyrene	160		1230	803		ug/Kg	☼	52	49 - 130	13	40
Benzo[b]fluoranthene	260		1230	1150		ug/Kg	☼	72	37 - 130	5	40
Benzo[g,h,i]perylene	110		1230	696		ug/Kg	☼	48	32 - 130	19	40
Benzo[k]fluoranthene	160		1230	900		ug/Kg	☼	60	32 - 130	11	40
Chrysene	160		1230	951		ug/Kg	☼	65	41 - 130	3	40
Dibenz(a,h)anthracene	46		1230	762		ug/Kg	☼	58	27 - 130	13	40
Fluoranthene	300	F	1230	1670	F	ug/Kg	☼	112	40 - 130	47	40
Fluorene	37	U	1230	690		ug/Kg	☼	56	40 - 130	16	40
Indeno[1,2,3-cd]pyrene	89		1230	686		ug/Kg	☼	49	30 - 130	23	40
1-Methylnaphthalene	21	J	1230	698		ug/Kg	☼	55	31 - 130	10	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

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

Lab Sample ID: 680-88980-8 MSD

Matrix: Solid

Analysis Batch: 136309

Client Sample ID: CV0666B-CS

Prep Type: Total/NA

Prep Batch: 136250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	19	J	1230	708		ug/Kg	✱	56	33 - 130	4	40
Naphthalene	33	J	1230	754		ug/Kg	✱	59	36 - 130	0	40
Phenanthrene	92		1230	720		ug/Kg	✱	51	42 - 130	21	40
Pyrene	300		1230	1540		ug/Kg	✱	101	44 - 130	29	40
Surrogate	%Recovery	MSD Qualifier	Limits								
<i>o</i> -Terphenyl	61		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

GC/MS Semi VOA

Prep Batch: 136250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-1	HP0176A-CS-SP	Total/NA	Solid	3546	
680-88980-2	HP0176B-CS-SP	Total/NA	Solid	3546	
680-88980-3	HP0257A-CS-SP	Total/NA	Solid	3546	
680-88980-4	HP0257B-CS-SP	Total/NA	Solid	3546	
680-88980-5	CV0380A-CS	Total/NA	Solid	3546	
680-88980-6	CV0380B-CS	Total/NA	Solid	3546	
680-88980-7	CV0666A-CS	Total/NA	Solid	3546	
680-88980-8	CV0666B-CS	Total/NA	Solid	3546	
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	3546	
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	3546	
680-88980-9	CV0668A-CS	Total/NA	Solid	3546	
680-88980-10	CV0668A-CSD	Total/NA	Solid	3546	
680-88980-11	CV0668B-CS	Total/NA	Solid	3546	
680-88980-12	CV0717A-CS	Total/NA	Solid	3546	
680-88980-13	CV0717B-CS	Total/NA	Solid	3546	
680-88980-14	HP0167A-CS-SP	Total/NA	Solid	3546	
680-88980-15	HP0167B-CS-SP	Total/NA	Solid	3546	
680-88980-16	CV0954A-CS-SP	Total/NA	Solid	3546	
680-88980-17	CV0954B-CS-SP	Total/NA	Solid	3546	
680-88980-18	CV0098A-CS	Total/NA	Solid	3546	
680-88980-19	CV0135A-CS	Total/NA	Solid	3546	
680-88980-20	CV0135B-CS	Total/NA	Solid	3546	
LCS 660-136250/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136250/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-1	HP0176A-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-2	HP0176B-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-3	HP0257A-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-4	HP0257B-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-5	CV0380A-CS	Total/NA	Solid	8270C LL	136250
680-88980-6	CV0380B-CS	Total/NA	Solid	8270C LL	136250
680-88980-7	CV0666A-CS	Total/NA	Solid	8270C LL	136250
680-88980-8	CV0666B-CS	Total/NA	Solid	8270C LL	136250
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	8270C LL	136250
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	8270C LL	136250
680-88980-9	CV0668A-CS	Total/NA	Solid	8270C LL	136250
680-88980-10	CV0668A-CSD	Total/NA	Solid	8270C LL	136250
680-88980-11	CV0668B-CS	Total/NA	Solid	8270C LL	136250
680-88980-12	CV0717A-CS	Total/NA	Solid	8270C LL	136250
680-88980-13	CV0717B-CS	Total/NA	Solid	8270C LL	136250
680-88980-14	HP0167A-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-15	HP0167B-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-16	CV0954A-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-17	CV0954B-CS-SP	Total/NA	Solid	8270C LL	136250
680-88980-18	CV0098A-CS	Total/NA	Solid	8270C LL	136250
680-88980-19	CV0135A-CS	Total/NA	Solid	8270C LL	136250
LCS 660-136250/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136250
MB 660-136250/1-A	Method Blank	Total/NA	Solid	8270C LL	136250

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

GC/MS Semi VOA (Continued)

Analysis Batch: 136371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-20	CV0135B-CS	Total/NA	Solid	8270C LL	136250

General Chemistry

Analysis Batch: 136226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88980-1	HP0176A-CS-SP	Total/NA	Solid	Moisture	
680-88980-2	HP0176B-CS-SP	Total/NA	Solid	Moisture	
680-88980-3	HP0257A-CS-SP	Total/NA	Solid	Moisture	
680-88980-4	HP0257B-CS-SP	Total/NA	Solid	Moisture	
680-88980-5	CV0380A-CS	Total/NA	Solid	Moisture	
680-88980-6	CV0380B-CS	Total/NA	Solid	Moisture	
680-88980-7	CV0666A-CS	Total/NA	Solid	Moisture	
680-88980-8	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-8 MS	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-8 MSD	CV0666B-CS	Total/NA	Solid	Moisture	
680-88980-9	CV0668A-CS	Total/NA	Solid	Moisture	
680-88980-10	CV0668A-CSD	Total/NA	Solid	Moisture	
680-88980-11	CV0668B-CS	Total/NA	Solid	Moisture	
680-88980-12	CV0717A-CS	Total/NA	Solid	Moisture	
680-88980-13	CV0717B-CS	Total/NA	Solid	Moisture	
680-88980-14	HP0167A-CS-SP	Total/NA	Solid	Moisture	
680-88980-15	HP0167B-CS-SP	Total/NA	Solid	Moisture	
680-88980-16	CV0954A-CS-SP	Total/NA	Solid	Moisture	
680-88980-17	CV0954B-CS-SP	Total/NA	Solid	Moisture	
680-88980-18	CV0098A-CS	Total/NA	Solid	Moisture	
680-88980-19	CV0135A-CS	Total/NA	Solid	Moisture	
680-88980-20	CV0135B-CS	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

Client Sample ID: HP0176A-CS-SP

Date Collected: 04/02/13 10:00

Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-1

Matrix: Solid

Percent Solids: 51.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 17:35	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: HP0176B-CS-SP

Date Collected: 04/02/13 10:10

Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-2

Matrix: Solid

Percent Solids: 60.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136309	04/10/13 17:53	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: HP0257A-CS-SP

Date Collected: 04/02/13 09:20

Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-3

Matrix: Solid

Percent Solids: 58.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 18:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: HP0257B-CS-SP

Date Collected: 04/02/13 09:30

Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-4

Matrix: Solid

Percent Solids: 62.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 18:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0380A-CS

Date Collected: 04/02/13 09:40

Date Received: 04/04/13 09:52

Lab Sample ID: 680-88980-5

Matrix: Solid

Percent Solids: 60.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 18:48	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: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0380B-CS

Lab Sample ID: 680-88980-6

Date Collected: 04/02/13 09:48

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 57.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 19:06	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0666A-CS

Lab Sample ID: 680-88980-7

Date Collected: 04/02/13 09:10

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 54.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 19:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0666B-CS

Lab Sample ID: 680-88980-8

Date Collected: 04/02/13 09:17

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 53.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 19:43	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0668A-CS

Lab Sample ID: 680-88980-9

Date Collected: 04/02/13 08:40

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 20:38	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0668A-CSD

Lab Sample ID: 680-88980-10

Date Collected: 04/02/13 08:42

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 20:57	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: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0668B-CS

Lab Sample ID: 680-88980-11

Date Collected: 04/02/13 08:48

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 59.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 21:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0717A-CS

Lab Sample ID: 680-88980-12

Date Collected: 04/02/13 10:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 21:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0717B-CS

Lab Sample ID: 680-88980-13

Date Collected: 04/02/13 10:26

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 66.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 21:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: HP0167A-CS-SP

Lab Sample ID: 680-88980-14

Date Collected: 04/02/13 12:35

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 22:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: HP0167B-CS-SP

Lab Sample ID: 680-88980-15

Date Collected: 04/02/13 12:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 22:29	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: 680-88980-1
SDG: 68088980-1

Client Sample ID: CV0954A-CS-SP

Lab Sample ID: 680-88980-16

Date Collected: 04/02/13 13:45

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 60.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 22:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0954B-CS-SP

Lab Sample ID: 680-88980-17

Date Collected: 04/02/13 13:55

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 62.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 23:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0098A-CS

Lab Sample ID: 680-88980-18

Date Collected: 04/02/13 13:50

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136309	04/10/13 23:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0135A-CS

Lab Sample ID: 680-88980-19

Date Collected: 04/02/13 12:15

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 71.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136309	04/10/13 23:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136226	04/08/13 13:01	AG	TAL TAM

Client Sample ID: CV0135B-CS

Lab Sample ID: 680-88980-20

Date Collected: 04/02/13 12:20

Matrix: Solid

Date Received: 04/04/13 09:52

Percent Solids: 63.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136250	04/09/13 09:40	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136371	04/11/13 14:44	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

Serial Number 63545

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Savannah, GA 31404

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☐ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35 th Ave Removal		PROJECT NO. 2005148-1356	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 P&H	Recl & Metals											STANDARD REPORT DELIVERY ☐
																					DATE DUE _____
CLIENT ADDRESS 1220 Kennestone Circle Marietta, Ga														EXPEDITED REPORT DELIVERY (SURCHARGE) ☐							
COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE										DATE DUE _____							
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED										REMARKS							
DATE	TIME																				
4-2-13	1000	HP0176A-CS-SP		C	X				X												
	1010	HP0176B-CS-SP		C	X				X												
	0920	HP0257A-CS-SP		C	X				X												
	0930	HP0257B-CS-SP		C	X				X												
	0940	CV0380A-CS		C	X				X												
	0948	CV0380B-CS		C	X				X												
	0910	CV0666A-CS		C	X				X												
	0917	CV0666B-CS		C	X				X	X											
	0840	CV0668A-CS		C	X				X												
	0842	CV0668A-CSD		C	X				X												
	0848	CV0668B-CS		C	X				X												
	1020	CV0717A-CS		C	X				X												
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME						
[Signature]		4-3-13	11:00																		
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME						
[Signature]																					
LABORATORY USE ONLY																					
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐		CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 88980	LABORATORY REMARKS 2-8													
[Signature]		04/04/13	0952																		

Serial Number 63546

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) ALMATRIX
TYPE

REQUIRED ANALYSIS

PAGE 2 3 OF

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LLPAH

STANDARD REPORT
DELIVERY☐

DATE DUE

EXPEDITED REPORT
DELIVERY
(SURCHARGE)☐

DATE DUE

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED
PER SHIPMENT:

SAMPLE

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS SUBMITTED

REMARKS

DATE TIME

4-2-13

1026

CV6 717B-CS

C

X

X

1235

HP0167A-CS-SP

C

X

X

1245

HP0167B-CS-SP

C

X

X

1345

CV0954A-CS-SP

C

X

X

1355

CV0954B-CS-SP

C

X

X

1350

CV0098A-CS

C

X

X

1215

CV0135A-CS

C

X

X

1220

CV0135B-CS

C

X

X

1320

CV0151A-CS

C

X

X

1325

CV0151A-CSD

C

X

X

1333

CV0151B-CS

C

X

X

1455

CV1236A-CS

C

X

X

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

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)

DATE

TIME

CUSTODY INTACT

YES ☐
NO ☐CUSTODY
SEAL NO.SAVANNAH
LOG NO. 680-
88980

LABORATORY REMARKS

2-8c

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88980-1

SDG Number: 68088980-1

Login Number: 88980

List Number: 3

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 04/12/13 08:13 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-88980-1
SDG: 68088980-1

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: 680-88980-1
SDG: 68088980-1

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