

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, URS Group, Inc.
 Concurrence²: Martha Meyers-Lee, URS Group, Inc.

Project No: 15268508.20000
 Job ID.: 680-89459-1
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/16/2013
 Date: 05/10/2013
 Date: 05/13/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 041513-RB-Shovel (680-89421-10).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 041513-RB-Shovel (680-89421-10) was collected during the week of 4/15/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-89421-1.	
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?	✓			FM0337B-CSD (680-89459-8) is a field duplicate of FM0337B-CS (680-89459-7).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J/UJ
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: 04/11/2013 - ICV: 04/11/13 @ 14:25 - CCV: 04/22/13 @ 11:50 - Instrument ID: BSMD5973 - Initial Calibration: 04/44/2013 - ICV: 04/04/13 @ 16:27 - CCV: 04/23/13 @ 13:06 - CCV: 04/24/13 @ 12:46	
19. Were calibration results within laboratory/project specifications? - ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): - If %RSD > 15 (>50% for poor performers), or $r < 0.995$,		✓		ICV of 04/04/13 @ 16:27, instrument BSMD5973: Benzo[a]pyrene @ -23.7 %D (Lab: ≤ 35.0 , Project: ≤ 20), 76.5%R. A negative bias is indicated by the CCV percent difference and the analyte was detected in the associated samples ³ ; therefore, J-flag sample results.	J

³ Associated samples: 680-89459-10 through -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
- or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): ○ If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ○ If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136637: 680-89328-8 (Batch sample), MS/MSD. Lab sample 680-89328-8 is a project-specific sample (HP0202C-CS-SP) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89328-1. • Prep Batch 136660: 680-89328-25 (Batch sample), MS/MSD. Lab sample 680-89328-25 is a project specific sample (CV1350A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89328-2. • Prep Batch 136752: 680-89459-12 (CV1066B-CS-SP), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i>		✓		CV1066B-CS-SP (680-89459-12): • Benzo[a]anthracene @ 52 and 33 $\%R$ (40-130). Qualification of data not required⁴.	J

⁴ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
- If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. - If either MS or MSD recovery meets control limits, qualification of data is not warranted. - MS and MSD %R<10: J and R Flag positive and ND results, respectively - MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results - MS and MSD R% >UCL (or 140): J-Flag positive results				- Benzo[a]pyrene @ 3 and -4 %R (49-130), J-Flag sample result. - Benzo[b]fluoranthene @ -12 and -25 %R (37-130), J-Flag sample result. - Benzo[g,h,i]perylene @ 1 and -12 %R (32-130), J-Flag sample result. - Chrysene @ 36 and 30 %R (41-130), J-Flag sample result. - Indeno[1,2,3-cd]pyrene @ 3 and -6 %R (30-130), J-Flag sample result. - Pyrene @ 51 and 38 %R (44-130). Qualification of data not required⁴.	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> - If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. - If %RPD > UCL, J-flag positive result and UJ-flag non-detect result.	✓				
27. Were surrogate recoveries within lab/project specifications? - 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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
sensitivity is indicated, J-flag positive and R-flag non-detect results - If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. - The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
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: 680-89459-1
SDG: 68089459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89459-1	FM0013A-CS	Solid	04/16/13 10:40	04/18/13 08:30
680-89459-2	FM0013B-CS	Solid	04/16/13 10:50	04/18/13 08:30
680-89459-3	FM0015A-CS	Solid	04/16/13 10:00	04/18/13 08:30
680-89459-4	FM0015B-CS	Solid	04/16/13 10:10	04/18/13 08:30
680-89459-5	FM0015C-GS	Solid	04/16/13 10:20	04/18/13 08:30
680-89459-6	FM0337A-CS	Solid	04/16/13 08:45	04/18/13 08:30
680-89459-7	FM0337B-CS	Solid	04/16/13 09:00	04/18/13 08:30
680-89459-8	FM0337B-CSD	Solid	04/16/13 09:00	04/18/13 08:30
680-89459-9	FM0342A-CS	Solid	04/16/13 09:10	04/18/13 08:30
680-89459-10	FM0342B-CS	Solid	04/16/13 09:20	04/18/13 08:30
680-89459-11	CV1066A-CS-SP	Solid	04/16/13 11:15	04/18/13 08:30
680-89459-12	CV1066B-CS-SP	Solid	04/16/13 11:30	04/18/13 08:30
680-89459-13	CV1225A-CS-SP	Solid	04/16/13 10:45	04/18/13 08:30
680-89459-14	CV1282A-CS-SP	Solid	04/16/13 09:30	04/18/13 08:30
680-89459-15	CV1282B-CS-SP	Solid	04/16/13 09:40	04/18/13 08:30
680-89459-16	CV1282C-CS-SP	Solid	04/16/13 09:55	04/18/13 08:30
680-89459-17	CV1282D-CS-SP	Solid	04/16/13 10:05	04/18/13 08:30
680-89459-18	CV1217A-CS	Solid	04/16/13 14:15	04/18/13 08:30
680-89459-19	CV1217B-CS	Solid	04/16/13 14:25	04/18/13 08:30
680-89459-20	CV1219A-CS	Solid	04/16/13 13:50	04/18/13 08:30

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0337B-CS 680-89459-7		RL	FM0337B-CSD 680-89459-8			RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	9.7	J	49		U	52	µg/kg	252.5	NA		9.7	101	None, absolute difference ≤ 2x Avg RL
Anthracene	5.3	J	10		U	11	µg/kg	52.5	NA		5.3	21	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	44		9.8	61		10	µg/kg	49.5	NA		17	19.8	None, absolute difference ≤ 2x Avg RL
Benzo(a)pyrene	60		13	44		13	µg/kg	65	NA		16	26	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	79		15	90		16	µg/kg	77.5	13		NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	30		25	53		26	µg/kg	127.5	NA		23	51	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	41		9.8	33		10	µg/kg	49.5	NA		8	19.8	None, absolute difference ≤ 2x Avg RL
Chrysene	54		11	48		12	µg/kg	57.5	NA		6	23	None, absolute difference ≤ 2x Avg RL
Fluoranthene	93		25	73		26	µg/kg	127.5	NA		20	51	None, absolute difference ≤ 2x Avg RL
Fluorene	10	J	25	11	J	26	µg/kg	127.5	NA		1	51	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	91		25		U	26	µg/kg	127.5	NA		91	51	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	14	J	49		U	52	µg/kg	252.5	NA		14	101	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	36	J	49		U	52	µg/kg	252.5	NA		36	101	None, absolute difference ≤ 2x Avg RL
Naphthalene	10	J	49	9.4	J	52	µg/kg	252.5	NA		0.6	101	None, absolute difference ≤ 2x Avg RL
Phenanthrene	47		9.8	49		10	µg/kg	49.5	NA		2	19.8	None, absolute difference ≤ 2x Avg RL
Pyrene	57		25	76		26	µg/kg	127.5	NA		19	51	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Job ID: 680-89459-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89459-1

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 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0013A-CS (680-89459-1), FM0013B-CS (680-89459-2), FM0015A-CS (680-89459-3), FM0015B-CS (680-89459-4), FM0015C-GS (680-89459-5), FM0337A-CS (680-89459-6), FM0337B-CS (680-89459-7), FM0337B-CSD (680-89459-8), FM0342A-CS (680-89459-9), FM0342B-CS (680-89459-10), CV1066A-CS-SP (680-89459-11), CV1066B-CS-SP (680-89459-12), CV1225A-CS-SP (680-89459-13), CV1282A-CS-SP (680-89459-14), CV1282B-CS-SP (680-89459-15), CV1282C-CS-SP (680-89459-16), CV1282D-CS-SP (680-89459-17), CV1217A-CS (680-89459-18), CV1217B-CS (680-89459-19) and CV1219A-CS (680-89459-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013, 04/23/2013 and 04/24/2013.

Samples FM0015C-GS (680-89459-5)[4X], CV1066A-CS-SP (680-89459-11)[4X], CV1066B-CS-SP (680-89459-12)[4X], CV1225A-CS-SP (680-89459-13)[4X], CV1282A-CS-SP (680-89459-14)[4X], CV1282B-CS-SP (680-89459-15)[4X], CV1282C-CS-SP (680-89459-16)[4X], CV1282D-CS-SP (680-89459-17)[4X], CV1217A-CS (680-89459-18)[4X] and CV1217B-CS (680-89459-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89328-8 in batch 660-136698. Several also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1066B-CS-SP (680-89459-12) in batch 660-136826.

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: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0013A-CS

Lab Sample ID: 680-89459-1

Date Collected: 04/16/13 10:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Acenaphthylene	19	J	52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Anthracene	48		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[a]anthracene	220		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[a]pyrene	180		14	6.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[b]fluoranthene	260		16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[g,h,i]perylene	96		26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[k]fluoranthene	120		10	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Chrysene	220		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Dibenz(a,h)anthracene	76		26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Fluoranthene	420		26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Fluorene	5.9	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Indeno[1,2,3-cd]pyrene	140		26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
1-Methylnaphthalene	8.5	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
2-Methylnaphthalene	52	U	52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Naphthalene	24	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Phenanthrene	200		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Pyrene	340		26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/19/13 11:14	04/22/13 19:55	1

Client Sample ID: FM0013B-CS

Lab Sample ID: 680-89459-2

Date Collected: 04/16/13 10:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 71.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Acenaphthylene	8.7	J	56	7.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Anthracene	7.0	J	12	5.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[a]anthracene	71		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[a]pyrene	32		15	7.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[b]fluoranthene	92		17	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[g,h,i]perylene	43		28	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[k]fluoranthene	25		11	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Chrysene	43		13	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Dibenz(a,h)anthracene	28	U	28	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Fluoranthene	60		28	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Fluorene	28	U	28	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Indeno[1,2,3-cd]pyrene	110		28	10	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
1-Methylnaphthalene	12	J	56	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
2-Methylnaphthalene	47	J	56	10	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Naphthalene	25	J	56	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Phenanthrene	47		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Pyrene	71		28	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/19/13 11:14	04/22/13 20:13	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0015A-CS

Lab Sample ID: 680-89459-3

Date Collected: 04/16/13 10:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Acenaphthylene	22	J	53	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Anthracene	52		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[a]anthracene	290		11	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[a]pyrene	240		14	6.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[b]fluoranthene	330		16	8.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[g,h,i]perylene	200		27	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[k]fluoranthene	180		11	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Chrysene	290		12	6.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Dibenz(a,h)anthracene	100		27	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Fluoranthene	450		27	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Fluorene	19	J	27	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Indeno[1,2,3-cd]pyrene	200		27	9.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
1-Methylnaphthalene	190		53	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
2-Methylnaphthalene	430		53	9.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Naphthalene	540		53	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Phenanthrene	260		11	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Pyrene	370		27	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130				04/19/13 11:14	04/22/13 20:31	1

Client Sample ID: FM0015B-CS

Lab Sample ID: 680-89459-4

Date Collected: 04/16/13 10:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Acenaphthylene	10	J	51	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Anthracene	14		11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[a]anthracene	86		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[a]pyrene	84		13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[b]fluoranthene	160		16	7.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[g,h,i]perylene	78		26	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[k]fluoranthene	92		10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Chrysene	110		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Dibenz(a,h)anthracene	26	U	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Fluoranthene	150		26	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Fluorene	11	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Indeno[1,2,3-cd]pyrene	110		26	9.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
1-Methylnaphthalene	47	J	51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
2-Methylnaphthalene	97		51	9.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Naphthalene	67		51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Phenanthrene	77		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Pyrene	110		26	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		30 - 130				04/19/13 11:14	04/22/13 20:50	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0015C-GS

Lab Sample ID: 680-89459-5

Date Collected: 04/16/13 10:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Acenaphthylene	220	U	220	28	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Anthracene	46		46	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[a]anthracene	130		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[a]pyrene	140		58	29	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[b]fluoranthene	150		68	34	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[g,h,i]perylene	73 J		110	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[k]fluoranthene	29 J		44	20	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Chrysene	150		50	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Fluoranthene	110		110	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Fluorene	110	U	110	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Indeno[1,2,3-cd]pyrene	110	U	110	39	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
1-Methylnaphthalene	70 J		220	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
2-Methylnaphthalene	170 J		220	39	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Naphthalene	84 J		220	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Phenanthrene	170		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Pyrene	120		110	20	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		30 - 130	04/19/13 11:14	04/22/13 21:08	4

Client Sample ID: FM0337A-CS

Lab Sample ID: 680-89459-6

Date Collected: 04/16/13 08:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Acenaphthylene	16 J		50	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Anthracene	18		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[a]anthracene	85		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[a]pyrene	94		13	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[b]fluoranthene	120		15	7.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[g,h,i]perylene	70		25	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[k]fluoranthene	110		9.9	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Chrysene	110		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Fluoranthene	170		25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Indeno[1,2,3-cd]pyrene	110		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
1-Methylnaphthalene	17 J		50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
2-Methylnaphthalene	50		50	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Naphthalene	31 J		50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Phenanthrene	78		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Pyrene	150		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130	04/19/13 11:14	04/22/13 21:26	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0337B-CS

Lab Sample ID: 680-89459-7

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Acenaphthylene	9.7	J	49	6.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Anthracene	5.3	J	10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[a]anthracene	44		9.8	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[a]pyrene	60		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[b]fluoranthene	79		15	7.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[g,h,i]perylene	30		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[k]fluoranthene	41		9.8	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Chrysene	54		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Dibenz(a,h)anthracene	25	U	25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Fluoranthene	93		25	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Fluorene	10	J	25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Indeno[1,2,3-cd]pyrene	91	J	25	8.7	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
1-Methylnaphthalene	14	J	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
2-Methylnaphthalene	36	J	49	8.7	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Naphthalene	10	J	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Phenanthrene	47		9.8	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Pyrene	57		25	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	04/19/13 11:14	04/22/13 21:45	1

Client Sample ID: FM0337B-CSD

Lab Sample ID: 680-89459-8

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Anthracene	11	U	11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[a]anthracene	61		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[a]pyrene	44		13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[b]fluoranthene	90		16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[g,h,i]perylene	53		26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[k]fluoranthene	33		10	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Chrysene	48		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Dibenz(a,h)anthracene	26	U	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Fluoranthene	73		26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Fluorene	11	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Indeno[1,2,3-cd]pyrene	26	UJ	26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
1-Methylnaphthalene	52	U	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
2-Methylnaphthalene	52	U	52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Naphthalene	9.4	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Phenanthrene	49		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Pyrene	76		26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63		30 - 130	04/19/13 11:14	04/22/13 22:03	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0342A-CS

Lab Sample ID: 680-89459-9

Date Collected: 04/16/13 09:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Acenaphthylene	10	J	49	6.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Anthracene	9.8	J	10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[a]anthracene	40		9.7	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[a]pyrene	56		13	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[b]fluoranthene	88		15	7.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[g,h,i]perylene	49		24	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[k]fluoranthene	22		9.7	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Chrysene	52		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Dibenz(a,h)anthracene	24	U	24	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Fluoranthene	62		24	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Fluorene	11	J	24	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Indeno[1,2,3-cd]pyrene	100		24	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
1-Methylnaphthalene	14	J	49	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
2-Methylnaphthalene	42	J	49	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Naphthalene	6.3	J	49	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Phenanthrene	36		9.7	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Pyrene	56		24	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130	04/19/13 11:14	04/22/13 22:22	1

Client Sample ID: FM0342B-CS

Lab Sample ID: 680-89459-10

Date Collected: 04/16/13 09:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41	J	130	25	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Acenaphthylene	36	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Anthracene	4000		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[a]anthracene	430		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[a]pyrene	380	J	13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[b]fluoranthene	620		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[g,h,i]perylene	250		25	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[k]fluoranthene	200		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Chrysene	760		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Dibenz(a,h)anthracene	77		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Fluoranthene	780		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Fluorene	240		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Indeno[1,2,3-cd]pyrene	220		25	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
1-Methylnaphthalene	77		50	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
2-Methylnaphthalene	180		50	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Naphthalene	260		50	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Phenanthrene	800		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Pyrene	560		25	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130	04/19/13 15:35	04/23/13 17:29	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1066A-CS-SP

Lab Sample ID: 680-89459-11

Date Collected: 04/16/13 11:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Acenaphthylene	34	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Anthracene	68		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[a]anthracene	210		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[a]pyrene	190	J	52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[b]fluoranthene	350		61	31	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[g,h,i]perylene	160		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Chrysene	280		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Dibenz(a,h)anthracene	63	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Fluoranthene	260		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Indeno[1,2,3-cd]pyrene	120		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
1-Methylnaphthalene	170	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
2-Methylnaphthalene	200		200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Phenanthrene	250		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Pyrene	200		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	59		30 - 130				04/19/13 15:35	04/23/13 17:52	4

Client Sample ID: CV1066B-CS-SP

Lab Sample ID: 680-89459-12

Date Collected: 04/16/13 11:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Acenaphthylene	81	J	210	26	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Anthracene	84		43	22	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[a]anthracene	510	✗	41	20	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[a]pyrene	780	✗ J	53	27	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[b]fluoranthene	1200	✗ J	63	31	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[g,h,i]perylene	670	✗ J	100	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[k]fluoranthene	380		41	19	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Chrysene	660	✗ J	46	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Dibenz(a,h)anthracene	190		100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Fluoranthene	420		100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Fluorene	100	U	100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Indeno[1,2,3-cd]pyrene	580	✗ J	100	37	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
1-Methylnaphthalene	240		210	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
2-Methylnaphthalene	260		210	37	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Naphthalene	170	J	210	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Phenanthrene	260		41	20	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Pyrene	410	✗	100	19	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	39		30 - 130				04/23/13 14:49	04/24/13 17:40	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1225A-CS-SP

Lab Sample ID: 680-89459-13

Date Collected: 04/16/13 10:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Acenaphthylene	46	J	190	24	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Anthracene	62		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[a]anthracene	140		38	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[a]pyrene	120	J	50	25	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[b]fluoranthene	310		59	29	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[g,h,i]perylene	140		96	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[k]fluoranthene	93		38	17	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Chrysene	230		43	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Dibenz(a,h)anthracene	51	J	96	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Fluoranthene	150		96	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Fluorene	96	U	96	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Indeno[1,2,3-cd]pyrene	120		96	34	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
1-Methylnaphthalene	65	J	190	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Naphthalene	92	J	190	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Phenanthrene	120		38	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Pyrene	160		96	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/19/13 15:35	04/23/13 18:14	4

Client Sample ID: CV1282A-CS-SP

Lab Sample ID: 680-89459-14

Date Collected: 04/16/13 09:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Anthracene	41		41	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[a]anthracene	180		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[a]pyrene	160	J	51	25	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[b]fluoranthene	280		60	30	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[g,h,i]perylene	110		98	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[k]fluoranthene	89		39	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Chrysene	230		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Dibenz(a,h)anthracene	40	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Fluoranthene	290		98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Fluorene	98	U	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Indeno[1,2,3-cd]pyrene	95	J	98	35	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
1-Methylnaphthalene	68	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
2-Methylnaphthalene	72	J	200	35	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Naphthalene	56	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Phenanthrene	180		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Pyrene	210		98	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				04/19/13 15:35	04/23/13 18:37	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1282B-CS-SP

Lab Sample ID: 680-89459-15

Date Collected: 04/16/13 09:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Acenaphthylene	42	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Anthracene	120		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[a]anthracene	450		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[a]pyrene	390	J	52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[b]fluoranthene	720		61	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[g,h,i]perylene	260		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[k]fluoranthene	200		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Chrysene	530		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Dibenz(a,h)anthracene	97	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Fluoranthene	720		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Fluorene	36	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
1-Methylnaphthalene	120	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
2-Methylnaphthalene	150	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Naphthalene	120	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Phenanthrene	450		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Pyrene	510		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130				04/19/13 15:35	04/23/13 19:00	4

Client Sample ID: CV1282C-CS-SP

Lab Sample ID: 680-89459-16

Date Collected: 04/16/13 09:55

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Acenaphthylene	54	J	200	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Anthracene	110		43	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[a]anthracene	350		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[a]pyrene	320	J	53	27	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[b]fluoranthene	650		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[g,h,i]perylene	240		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[k]fluoranthene	200		41	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Chrysene	540		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Dibenz(a,h)anthracene	89	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Fluoranthene	590		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Fluorene	34	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Indeno[1,2,3-cd]pyrene	220		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
1-Methylnaphthalene	90	J	200	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
2-Methylnaphthalene	100	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Naphthalene	91	J	200	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Phenanthrene	400		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Pyrene	450		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	52		30 - 130				04/19/13 15:35	04/23/13 19:22	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1282D-CS-SP

Lab Sample ID: 680-89459-17

Date Collected: 04/16/13 10:05

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Acenaphthylene	72	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Anthracene	250		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[a]anthracene	760		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[a]pyrene	710	J	53	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[b]fluoranthene	1300		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[g,h,i]perylene	440		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[k]fluoranthene	420		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Chrysene	920		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Dibenz(a,h)anthracene	160		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Fluoranthene	1300		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Fluorene	76	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Indeno[1,2,3-cd]pyrene	410		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
1-Methylnaphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
2-Methylnaphthalene	160	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Naphthalene	220		200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Phenanthrene	880		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Pyrene	940		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	55		30 - 130				04/19/13 15:35	04/23/13 19:45	4

Client Sample ID: CV1217A-CS

Lab Sample ID: 680-89459-18

Date Collected: 04/16/13 14:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Acenaphthylene	46	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Anthracene	97		43	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[a]anthracene	700		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[a]pyrene	970	J	53	26	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[b]fluoranthene	1600		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[g,h,i]perylene	650		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[k]fluoranthene	530		41	18	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Chrysene	870		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Dibenz(a,h)anthracene	220		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Fluoranthene	760		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Indeno[1,2,3-cd]pyrene	620		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
2-Methylnaphthalene	100	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Naphthalene	87	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Phenanthrene	290		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Pyrene	590		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	49		30 - 130				04/19/13 15:35	04/23/13 20:07	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1217B-CS

Lab Sample ID: 680-89459-19

Date Collected: 04/16/13 14:25

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 64.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	610	U	610	120	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Acenaphthylene	250	U	250	31	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Anthracene	39	J	52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[a]anthracene	450		49	24	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[a]pyrene	620	J	64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[b]fluoranthene	1200		75	37	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[g,h,i]perylene	540		120	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[k]fluoranthene	430		49	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Chrysene	630		55	28	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Dibenz(a,h)anthracene	180		120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Fluoranthene	480		120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Fluorene	120	U	120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Indeno[1,2,3-cd]pyrene	480		120	44	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
1-Methylnaphthalene	53	J	250	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
2-Methylnaphthalene	68	J	250	44	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Naphthalene	93	J	250	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Phenanthrene	220		49	24	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Pyrene	420		120	23	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/19/13 15:35	04/23/13 20:30	4

Client Sample ID: CV1219A-CS

Lab Sample ID: 680-89459-20

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Acenaphthylene	7.6	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Anthracene	35		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[a]anthracene	550		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[a]pyrene	1200	J	13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[b]fluoranthene	1700		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[g,h,i]perylene	780		25	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[k]fluoranthene	570		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Chrysene	700		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Dibenz(a,h)anthracene	240		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Fluoranthene	420		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Fluorene	14	J	25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Indeno[1,2,3-cd]pyrene	670		25	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
1-Methylnaphthalene	38	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
2-Methylnaphthalene	48	J	50	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Naphthalene	41	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Phenanthrene	170		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Pyrene	370		25	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	46		30 - 130	04/19/13 15:35	04/23/13 20:52	1

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-89459-1

SDG Number: 68089459-1

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
4/29/2013 4:45 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/29/2013

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: 680-89459-1

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 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0013A-CS (680-89459-1), FM0013B-CS (680-89459-2), FM0015A-CS (680-89459-3), FM0015B-CS (680-89459-4), FM0015C-GS (680-89459-5), FM0337A-CS (680-89459-6), FM0337B-CS (680-89459-7), FM0337B-CSD (680-89459-8), FM0342A-CS (680-89459-9), FM0342B-CS (680-89459-10), CV1066A-CS-SP (680-89459-11), CV1066B-CS-SP (680-89459-12), CV1225A-CS-SP (680-89459-13), CV1282A-CS-SP (680-89459-14), CV1282B-CS-SP (680-89459-15), CV1282C-CS-SP (680-89459-16), CV1282D-CS-SP (680-89459-17), CV1217A-CS (680-89459-18), CV1217B-CS (680-89459-19) and CV1219A-CS (680-89459-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013, 04/23/2013 and 04/24/2013.

Samples FM0015C-GS (680-89459-5)[4X], CV1066A-CS-SP (680-89459-11)[4X], CV1066B-CS-SP (680-89459-12)[4X], CV1225A-CS-SP (680-89459-13)[4X], CV1282A-CS-SP (680-89459-14)[4X], CV1282B-CS-SP (680-89459-15)[4X], CV1282C-CS-SP (680-89459-16)[4X], CV1282D-CS-SP (680-89459-17)[4X], CV1217A-CS (680-89459-18)[4X] and CV1217B-CS (680-89459-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89328-8 in batch 660-136698. Several also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1066B-CS-SP (680-89459-12) in batch 660-136826.

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: 680-89459-1

Sdg Number: 68089459-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89459-1	FM0013A-CS	Solid	04/16/2013 1040	04/18/2013 0830
680-89459-2	FM0013B-CS	Solid	04/16/2013 1050	04/18/2013 0830
680-89459-3	FM0015A-CS	Solid	04/16/2013 1000	04/18/2013 0830
680-89459-4	FM0015B-CS	Solid	04/16/2013 1010	04/18/2013 0830
680-89459-5	FM0015C-GS	Solid	04/16/2013 1020	04/18/2013 0830
680-89459-6	FM0337A-CS	Solid	04/16/2013 0845	04/18/2013 0830
680-89459-7	FM0337B-CS	Solid	04/16/2013 0900	04/18/2013 0830
680-89459-8	FM0337B-CSD	Solid	04/16/2013 0900	04/18/2013 0830
680-89459-9	FM0342A-CS	Solid	04/16/2013 0910	04/18/2013 0830
680-89459-10	FM0342B-CS	Solid	04/16/2013 0920	04/18/2013 0830
680-89459-11	CV1066A-CS-SP	Solid	04/16/2013 1115	04/18/2013 0830
680-89459-12	CV1066B-CS-SP	Solid	04/16/2013 1130	04/18/2013 0830
680-89459-12MS	CV1066B-CS-SP	Solid	04/16/2013 1130	04/18/2013 0830
680-89459-12MSD	CV1066B-CS-SP	Solid	04/16/2013 1130	04/18/2013 0830
680-89459-13	CV1225A-CS-SP	Solid	04/16/2013 1045	04/18/2013 0830
680-89459-14	CV1282A-CS-SP	Solid	04/16/2013 0930	04/18/2013 0830
680-89459-15	CV1282B-CS-SP	Solid	04/16/2013 0940	04/18/2013 0830
680-89459-16	CV1282C-CS-SP	Solid	04/16/2013 0955	04/18/2013 0830
680-89459-17	CV1282D-CS-SP	Solid	04/16/2013 1005	04/18/2013 0830
680-89459-18	CV1217A-CS	Solid	04/16/2013 1415	04/18/2013 0830
680-89459-19	CV1217B-CS	Solid	04/16/2013 1425	04/18/2013 0830
680-89459-20	CV1219A-CS	Solid	04/16/2013 1350	04/18/2013 0830

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

Sdg Number: 68089459-1

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: 680-89459-1

Sdg Number: 68089459-1

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: 680-89459-1

Sdg Number: 68089459-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

Sdg Number: 68089459-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136637					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136637/1-A	Method Blank	T	Solid	3546	
680-89328-A-8-B MS	Matrix Spike	T	Solid	3546	
680-89328-A-8-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89459-1	FM0013A-CS	T	Solid	3546	
680-89459-2	FM0013B-CS	T	Solid	3546	
680-89459-3	FM0015A-CS	T	Solid	3546	
680-89459-4	FM0015B-CS	T	Solid	3546	
680-89459-5	FM0015C-GS	T	Solid	3546	
680-89459-6	FM0337A-CS	T	Solid	3546	
680-89459-7	FM0337B-CS	T	Solid	3546	
680-89459-8	FM0337B-CSD	T	Solid	3546	
680-89459-9	FM0342A-CS	T	Solid	3546	
Prep Batch: 660-136660					
LCS 660-136660/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136660/1-A	Method Blank	T	Solid	3546	
680-89328-A-25-B MS	Matrix Spike	T	Solid	3546	
680-89328-A-25-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89459-10	FM0342B-CS	T	Solid	3546	
680-89459-11	CV1066A-CS-SP	T	Solid	3546	
680-89459-13	CV1225A-CS-SP	T	Solid	3546	
680-89459-14	CV1282A-CS-SP	T	Solid	3546	
680-89459-15	CV1282B-CS-SP	T	Solid	3546	
680-89459-16	CV1282C-CS-SP	T	Solid	3546	
680-89459-17	CV1282D-CS-SP	T	Solid	3546	
680-89459-18	CV1217A-CS	T	Solid	3546	
680-89459-19	CV1217B-CS	T	Solid	3546	
680-89459-20	CV1219A-CS	T	Solid	3546	
Analysis Batch:660-136698					
LCS 660-136637/2-A	Lab Control Sample	T	Solid	8270C LL	660-136637
MB 660-136637/1-A	Method Blank	T	Solid	8270C LL	660-136637
680-89328-A-8-B MS	Matrix Spike	T	Solid	8270C LL	660-136637
680-89328-A-8-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136637
680-89459-1	FM0013A-CS	T	Solid	8270C LL	660-136637
680-89459-2	FM0013B-CS	T	Solid	8270C LL	660-136637
680-89459-3	FM0015A-CS	T	Solid	8270C LL	660-136637
680-89459-4	FM0015B-CS	T	Solid	8270C LL	660-136637
680-89459-5	FM0015C-GS	T	Solid	8270C LL	660-136637
680-89459-6	FM0337A-CS	T	Solid	8270C LL	660-136637
680-89459-7	FM0337B-CS	T	Solid	8270C LL	660-136637
680-89459-8	FM0337B-CSD	T	Solid	8270C LL	660-136637
680-89459-9	FM0342A-CS	T	Solid	8270C LL	660-136637

TestAmerica Savannah

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

Sdg Number: 68089459-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136752					
LCS 660-136752/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136752/1-A	Method Blank	T	Solid	3546	
680-89459-12	CV1066B-CS-SP	T	Solid	3546	
680-89459-12MS	Matrix Spike	T	Solid	3546	
680-89459-12MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136756					
LCS 660-136660/2-A	Lab Control Sample	T	Solid	8270C LL	660-136660
MB 660-136660/1-A	Method Blank	T	Solid	8270C LL	660-136660
680-89328-A-25-B MS	Matrix Spike	T	Solid	8270C LL	660-136660
680-89328-A-25-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136660
680-89459-10	FM0342B-CS	T	Solid	8270C LL	660-136660
680-89459-11	CV1066A-CS-SP	T	Solid	8270C LL	660-136660
680-89459-13	CV1225A-CS-SP	T	Solid	8270C LL	660-136660
680-89459-14	CV1282A-CS-SP	T	Solid	8270C LL	660-136660
680-89459-15	CV1282B-CS-SP	T	Solid	8270C LL	660-136660
680-89459-16	CV1282C-CS-SP	T	Solid	8270C LL	660-136660
680-89459-17	CV1282D-CS-SP	T	Solid	8270C LL	660-136660
680-89459-18	CV1217A-CS	T	Solid	8270C LL	660-136660
680-89459-19	CV1217B-CS	T	Solid	8270C LL	660-136660
680-89459-20	CV1219A-CS	T	Solid	8270C LL	660-136660
Analysis Batch:660-136826					
LCS 660-136752/2-A	Lab Control Sample	T	Solid	8270C LL	660-136752
MB 660-136752/1-A	Method Blank	T	Solid	8270C LL	660-136752
680-89459-12	CV1066B-CS-SP	T	Solid	8270C LL	660-136752
680-89459-12MS	Matrix Spike	T	Solid	8270C LL	660-136752
680-89459-12MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136752

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

Sdg Number: 68089459-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136617					
680-89459-1	FM0013A-CS	T	Solid	Moisture	
680-89459-2	FM0013B-CS	T	Solid	Moisture	
680-89459-3	FM0015A-CS	T	Solid	Moisture	
680-89459-4	FM0015B-CS	T	Solid	Moisture	
680-89459-5	FM0015C-GS	T	Solid	Moisture	
680-89459-6	FM0337A-CS	T	Solid	Moisture	
680-89459-7	FM0337B-CS	T	Solid	Moisture	
680-89459-8	FM0337B-CSD	T	Solid	Moisture	
680-89459-9	FM0342A-CS	T	Solid	Moisture	
680-89459-10	FM0342B-CS	T	Solid	Moisture	
680-89459-11	CV1066A-CS-SP	T	Solid	Moisture	
680-89459-12	CV1066B-CS-SP	T	Solid	Moisture	
680-89459-12MS	Matrix Spike	T	Solid	Moisture	
680-89459-12MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89459-13	CV1225A-CS-SP	T	Solid	Moisture	
680-89459-14	CV1282A-CS-SP	T	Solid	Moisture	
680-89459-15	CV1282B-CS-SP	T	Solid	Moisture	
680-89459-16	CV1282C-CS-SP	T	Solid	Moisture	
680-89459-17	CV1282D-CS-SP	T	Solid	Moisture	
680-89459-18	CV1217A-CS	T	Solid	Moisture	
680-89459-19	CV1217B-CS	T	Solid	Moisture	
680-89459-20	CV1219A-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: ICIS 660-136370/3 Client Sample ID: _____Date Analyzed: 04/11/13 11:56 Lab File ID: 1CD11003.D GC Column: DB-5MS ID: 250 (um)

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136370Lab Sample ID: IC 660-136370/8 Client Sample ID: _____Date Analyzed: 04/11/13 13:48 Lab File ID: 1CD11008.D GC Column: DB-5MS ID: 250 (um)

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136698Lab Sample ID: CCVIS 660-136698/3 Client Sample ID: _____Date Analyzed: 04/22/13 11:50 Lab File ID: 1CD22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/22/13 12:08

Lab Sample ID: LCS 660-136637/2-A Client Sample ID: _____Date Analyzed: 04/22/13 15:38 Lab File ID: 1CD22013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/13 16:14

Lab Sample ID: 680-89328-A-8-B MS Client Sample ID: _____Date Analyzed: 04/22/13 16:51 Lab File ID: 1CD22017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/23/13 16:20
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/23/13 16:20

Lab Sample ID: 680-89328-A-8-C MSD Client Sample ID: _____Date Analyzed: 04/22/13 17:10 Lab File ID: 1CD22018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/23/13 16:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136698Lab Sample ID: 680-89459-1 Client Sample ID: FM0013A-CSDate Analyzed: 04/22/13 19:55 Lab File ID: 1CD22027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/24/13 10:27
Dibenz(a,h)anthracene	9.88	Baseline Event	cantins	04/24/13 10:27
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:26

Lab Sample ID: 680-89459-2 Client Sample ID: FM0013B-CSDate Analyzed: 04/22/13 20:13 Lab File ID: 1CD22028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.89	Baseline Event	cantins	04/24/13 10:31
Benzo[g,h,i]perylene	10.21	Baseline Event	cantins	04/24/13 10:30

Lab Sample ID: 680-89459-3 Client Sample ID: FM0015A-CSDate Analyzed: 04/22/13 20:31 Lab File ID: 1CD22029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Split Peak	cantins	04/24/13 10:32
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:32

Lab Sample ID: 680-89459-4 Client Sample ID: FM0015B-CSDate Analyzed: 04/22/13 20:50 Lab File ID: 1CD22030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 10:34
Benzo[k]fluoranthene	8.44	Baseline Event	cantins	04/24/13 10:34
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136698Lab Sample ID: 680-89459-5 Client Sample ID: FM0015C-GSDate Analyzed: 04/22/13 21:08 Lab File ID: 1CD22031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.19	Baseline Event	cantins	04/24/13 10:42

Lab Sample ID: 680-89459-6 Client Sample ID: FM0337A-CSDate Analyzed: 04/22/13 21:26 Lab File ID: 1CD22032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/24/13 10:43
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 10:43

Lab Sample ID: 680-89459-7 Client Sample ID: FM0337B-CSDate Analyzed: 04/22/13 21:45 Lab File ID: 1CD22033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.20	Baseline Event	cantins	04/24/13 11:07

Lab Sample ID: 680-89459-8 Client Sample ID: FM0337B-CSDDate Analyzed: 04/22/13 22:03 Lab File ID: 1CD22034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.43	Split Peak	cantins	04/24/13 11:09
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/24/13 11:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973 Analysis Batch Number: 136698Lab Sample ID: 680-89459-9 Client Sample ID: FM0342A-CSDate Analyzed: 04/22/13 22:22 Lab File ID: 1CD22035.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.87	Baseline Event	cantins	04/24/13 11:11
Benzo[g,h,i]perylene	10.21	Baseline Event	cantins	04/24/13 11:10

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument 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.: 680-89459-1SDG No.: 68089459-1Instrument 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.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: CCVIS 660-136756/4 Client Sample ID: _____Date Analyzed: 04/23/13 13:06 Lab File ID: 1DD23004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/23/13 14:48

Lab Sample ID: LCS 660-136660/2-A Client Sample ID: _____Date Analyzed: 04/23/13 15:59 Lab File ID: 1DD23009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 12:58

Lab Sample ID: 680-89328-A-25-B MS Client Sample ID: _____Date Analyzed: 04/23/13 16:44 Lab File ID: 1DD23011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/24/13 12:59

Lab Sample ID: 680-89328-A-25-C MSD Client Sample ID: _____Date Analyzed: 04/23/13 17:07 Lab File ID: 1DD23012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:00

Lab Sample ID: 680-89459-10 Client Sample ID: FM0342B-CSDate Analyzed: 04/23/13 17:29 Lab File ID: 1DD23013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: 680-89459-11 Client Sample ID: CV1066A-CS-SPDate Analyzed: 04/23/13 17:52 Lab File ID: 1DD23014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:01
Benzo[g,h,i]perylene	15.14	Baseline Event	cantins	04/24/13 13:01

Lab Sample ID: 680-89459-13 Client Sample ID: CV1225A-CS-SPDate Analyzed: 04/23/13 18:14 Lab File ID: 1DD23015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:02

Lab Sample ID: 680-89459-14 Client Sample ID: CV1282A-CS-SPDate Analyzed: 04/23/13 18:37 Lab File ID: 1DD23016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:03

Lab Sample ID: 680-89459-15 Client Sample ID: CV1282B-CS-SPDate Analyzed: 04/23/13 19:00 Lab File ID: 1DD23017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:04

Lab Sample ID: 680-89459-16 Client Sample ID: CV1282C-CS-SPDate Analyzed: 04/23/13 19:22 Lab File ID: 1DD23018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:18
Benzo[g,h,i]perylene	15.14	Baseline Event	cantins	04/24/13 13:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973 Analysis Batch Number: 136756Lab Sample ID: 680-89459-17 Client Sample ID: CV1282D-CS-SPDate Analyzed: 04/23/13 19:45 Lab File ID: 1DD23019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:19

Lab Sample ID: 680-89459-18 Client Sample ID: CV1217A-CSDate Analyzed: 04/23/13 20:07 Lab File ID: 1DD23020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:20

Lab Sample ID: 680-89459-19 Client Sample ID: CV1217B-CSDate Analyzed: 04/23/13 20:30 Lab File ID: 1DD23021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/24/13 13:21

Lab Sample ID: 680-89459-20 Client Sample ID: CV1219A-CSDate Analyzed: 04/23/13 20:52 Lab File ID: 1DD23022.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	04/24/13 13:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973 Analysis Batch Number: 136826Lab Sample ID: CCVIS 660-136826/3 Client Sample ID: _____Date Analyzed: 04/24/13 12:46 Lab File ID: 1DD24003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.71	Split Peak	cantins	04/24/13 13:06

Lab Sample ID: MB 660-136752/1-A Client Sample ID: _____Date Analyzed: 04/24/13 16:55 Lab File ID: 1DD24014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	9.01	Baseline Event	cantins	04/25/13 13:09

Lab Sample ID: LCS 660-136752/2-A Client Sample ID: _____Date Analyzed: 04/24/13 17:18 Lab File ID: 1DD24015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/25/13 13:10

Lab Sample ID: 680-89459-12 Client Sample ID: CV1066B-CS-SPDate Analyzed: 04/24/13 17:40 Lab File ID: 1DD24016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.69	Split Peak	cantins	04/25/13 13:11

Lab Sample ID: 680-89459-12 MS Client Sample ID: CV1066B-CS-SP MSDate Analyzed: 04/24/13 18:03 Lab File ID: 1DD24017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/25/13 13:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973 Analysis Batch Number: 136826Lab Sample ID: 680-89459-12 MSD Client Sample ID: CV1066B-CS-SP MSDDate Analyzed: 04/24/13 18:25 Lab File ID: 1DD24018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.70	Split Peak	cantins	04/25/13 13:12

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.: 680-89459-1

SDG No.: 68089459-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
FM0013A-CS	680-89459-1	66
FM0013B-CS	680-89459-2	66
FM0015A-CS	680-89459-3	57
FM0015B-CS	680-89459-4	74
FM0015C-GS	680-89459-5	90
FM0337A-CS	680-89459-6	61
FM0337B-CS	680-89459-7	60
FM0337B-CSD	680-89459-8	63
FM0342A-CS	680-89459-9	64
FM0342B-CS	680-89459-10	57
CV1066A-CS-SP	680-89459-11	59
CV1066B-CS-SP	680-89459-12	39
CV1225A-CS-SP	680-89459-13	65
CV1282A-CS-SP	680-89459-14	57
CV1282B-CS-SP	680-89459-15	62
CV1282C-CS-SP	680-89459-16	52
CV1282D-CS-SP	680-89459-17	55
CV1217A-CS	680-89459-18	49
CV1217B-CS	680-89459-19	62
CV1219A-CS	680-89459-20	46
	MB 660-136637/1-A	67
	MB 660-136660/1-A	64
	MB 660-136752/1-A	62
	LCS 660-136637/2-A	74
	LCS 660-136660/2-A	64
	LCS 660-136752/2-A	75
	680-89328-A-8-B MS	80
	680-89328-A-25-B MS	49
CV1066B-CS-SP MS	680-89459-12 MS	52
	680-89328-A-8-C MSD	81

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Matrix: Solid Level: Low
GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
	680-89328-A-25-C MSD	58
CV1066B-CS-SP MSD	680-89459-12 MSD	52

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.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1CD22013.D
 Lab ID: LCS 660-136637/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	537	81	39-130	
Acenaphthylene	660	492	74	38-130	
Anthracene	660	528	80	37-130	
Benzo[a]anthracene	660	579	88	40-130	
Benzo[a]pyrene	660	446	68	49-130	
Benzo[b]fluoranthene	660	556	84	37-130	
Benzo[g,h,i]perylene	660	468	71	32-130	
Benzo[k]fluoranthene	660	589	89	32-130	
Chrysene	660	465	70	41-130	
Dibenz(a,h)anthracene	660	553	84	27-130	
Fluoranthene	660	538	81	40-130	
Fluorene	660	534	81	40-130	
Indeno[1,2,3-cd]pyrene	660	400	61	30-130	
1-Methylnaphthalene	660	423	64	31-130	
2-Methylnaphthalene	660	435	66	33-130	
Naphthalene	660	472	71	36-130	
Phenanthrene	660	534	81	42-130	
Pyrene	660	479	73	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD23009.D
 Lab ID: LCS 660-136660/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	327	50	39-130	
Acenaphthylene	653	342	52	38-130	
Anthracene	653	420	64	37-130	
Benzo[a]anthracene	653	459	70	40-130	
Benzo[a]pyrene	653	419	64	49-130	
Benzo[b]fluoranthene	653	469	72	37-130	
Benzo[g,h,i]perylene	653	529	81	32-130	
Benzo[k]fluoranthene	653	444	68	32-130	
Chrysene	653	445	68	41-130	
Dibenz(a,h)anthracene	653	528	81	27-130	
Fluoranthene	653	453	69	40-130	
Fluorene	653	382	59	40-130	
Indeno[1,2,3-cd]pyrene	653	514	79	30-130	
1-Methylnaphthalene	653	279	43	31-130	
2-Methylnaphthalene	653	272	42	33-130	
Naphthalene	653	245	38	36-130	
Phenanthrene	653	420	64	42-130	
Pyrene	653	445	68	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD24015.D
 Lab ID: LCS 660-136752/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	657	486	74	39-130	
Acenaphthylene	657	507	77	38-130	
Anthracene	657	496	75	37-130	
Benzo[a]anthracene	657	547	83	40-130	
Benzo[a]pyrene	657	494	75	49-130	
Benzo[b]fluoranthene	657	577	88	37-130	
Benzo[g,h,i]perylene	657	548	83	32-130	
Benzo[k]fluoranthene	657	542	83	32-130	
Chrysene	657	513	78	41-130	
Dibenz(a,h)anthracene	657	574	87	27-130	
Fluoranthene	657	534	81	40-130	
Fluorene	657	528	80	40-130	
Indeno[1,2,3-cd]pyrene	657	535	81	30-130	
1-Methylnaphthalene	657	503	77	31-130	
2-Methylnaphthalene	657	498	76	33-130	
Naphthalene	657	478	73	36-130	
Phenanthrene	657	485	74	42-130	
Pyrene	657	518	79	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.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1CD22017.D
 Lab ID: 680-89328-A-8-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	826	500 U	654	79	39-130	
Acenaphthylene	826	71 J	680	74	38-130	
Anthracene	826	46	501	55	37-130	
Benzo[a]anthracene	826	210	927	87	40-130	
Benzo[a]pyrene	826	260	690	52	49-130	
Benzo[b]fluoranthene	826	370	964	72	37-130	
Benzo[g,h,i]perylene	826	230	816	71	32-130	
Benzo[k]fluoranthene	826	110	744	77	32-130	
Chrysene	826	330	777	54	41-130	
Dibenz(a,h)anthracene	826	99 U	596	72	27-130	
Fluoranthene	826	300	980	82	40-130	
Fluorene	826	99 U	528	64	40-130	
Indeno[1,2,3-cd]pyrene	826	380	810	52	30-130	
1-Methylnaphthalene	826	190 J	556	45	31-130	
2-Methylnaphthalene	826	270	682	50	33-130	
Naphthalene	826	130 J	483	43	36-130	
Phenanthrene	826	200	833	76	42-130	
Pyrene	826	380	890	62	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.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD23011.D
 Lab ID: 680-89328-A-25-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	864	520 U	410 J	47	39-130	
Acenaphthylene	864	40 J	460	49	38-130	
Anthracene	864	52	459	47	37-130	
Benzo[a]anthracene	864	230	685	53	40-130	
Benzo[a]pyrene	864	210	586	44	49-130	F
Benzo[b]fluoranthene	864	340	715	43	37-130	
Benzo[g,h,i]perylene	864	200	703	58	32-130	
Benzo[k]fluoranthene	864	100	540	51	32-130	
Chrysene	864	340	710	43	41-130	
Dibenz(a,h)anthracene	864	54 J	573	60	27-130	
Fluoranthene	864	350	734	44	40-130	
Fluorene	864	26 J	454	50	40-130	
Indeno[1,2,3-cd]pyrene	864	150	638	56	30-130	
1-Methylnaphthalene	864	220	543	37	31-130	
2-Methylnaphthalene	864	220	568	41	33-130	
Naphthalene	864	130 J	454	37	36-130	
Phenanthrene	864	340	700	42	42-130	
Pyrene	864	300	695	45	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.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD24017.D
 Lab ID: 680-89459-12 MS Client ID: CV1066B-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	857	510 U	437 J	51	39-130	
Acenaphthylene	857	81 J	566	57	38-130	
Anthracene	857	84	558	55	37-130	
Benzo[a]anthracene	857	510	952	52	40-130	
Benzo[a]pyrene	857	780	803	3	49-130	F
Benzo[b]fluoranthene	857	1200	1130	-12	37-130	F
Benzo[g,h,i]perylene	857	670	679	1	32-130	F
Benzo[k]fluoranthene	857	380	702	38	32-130	
Chrysene	857	660	963	36	41-130	F
Dibenz(a,h)anthracene	857	190	544	41	27-130	
Fluoranthene	857	420	886	55	40-130	
Fluorene	857	100 U	477	56	40-130	
Indeno[1,2,3-cd]pyrene	857	580	614	3	30-130	F
1-Methylnaphthalene	857	240	988	87	31-130	
2-Methylnaphthalene	857	260	1010	88	33-130	
Naphthalene	857	170 J	791	73	36-130	
Phenanthrene	857	260	864	70	42-130	
Pyrene	857	410	842	51	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.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1CD22018.D
 Lab ID: 680-89328-A-8-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	826	551	67	17	40	39-130	
Acenaphthylene	826	580	62	16	40	38-130	
Anthracene	826	661	74	27	40	37-130	
Benzo[a]anthracene	826	1190	119	25	40	40-130	
Benzo[a]pyrene	826	1060	97	42	40	49-130	F
Benzo[b]fluoranthene	826	1300	112	30	40	37-130	
Benzo[g,h,i]perylene	826	868	77	6	40	32-130	
Benzo[k]fluoranthene	826	840	89	12	40	32-130	
Chrysene	826	1240	110	46	40	41-130	F
Dibenz(a,h)anthracene	826	611	74	2	40	27-130	
Fluoranthene	826	1860	188	62	40	40-130	F
Fluorene	826	601	73	13	40	40-130	
Indeno[1,2,3-cd]pyrene	826	1030	79	24	40	30-130	
1-Methylnaphthalene	826	439	30	23	40	31-130	F
2-Methylnaphthalene	826	528	32	25	40	33-130	F
Naphthalene	826	476	42	1	40	36-130	
Phenanthrene	826	1250	127	40	40	42-130	
Pyrene	826	1680	158	62	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD23012.D
 Lab ID: 680-89328-A-25-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	864	506 J	59	21	40	39-130	
Acenaphthylene	864	570	61	21	40	38-130	
Anthracene	864	567	60	21	40	37-130	
Benzo[a]anthracene	864	812	67	17	40	40-130	
Benzo[a]pyrene	864	724	60	21	40	49-130	
Benzo[b]fluoranthene	864	945	70	28	40	37-130	
Benzo[g,h,i]perylene	864	823	72	16	40	32-130	
Benzo[k]fluoranthene	864	636	62	16	40	32-130	
Chrysene	864	910	66	25	40	41-130	
Dibenz(a,h)anthracene	864	706	76	21	40	27-130	
Fluoranthene	864	930	67	23	40	40-130	
Fluorene	864	550	61	19	40	40-130	
Indeno[1,2,3-cd]pyrene	864	771	72	19	40	30-130	
1-Methylnaphthalene	864	651	50	18	40	31-130	
2-Methylnaphthalene	864	673	53	17	40	33-130	
Naphthalene	864	586	53	25	40	36-130	
Phenanthrene	864	865	61	21	40	42-130	
Pyrene	864	876	66	23	40	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Matrix: Solid Level: Low Lab File ID: 1DD24018.D
 Lab ID: 680-89459-12 MSD Client ID: CV1066B-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	857	427 J	50	2	40	39-130	
Acenaphthylene	857	518	51	9	40	38-130	
Anthracene	857	538	53	4	40	37-130	
Benzo[a]anthracene	857	794	33	18	40	40-130	F
Benzo[a]pyrene	857	743	-4	8	40	49-130	F
Benzo[b]fluoranthene	857	1020	-25	10	40	37-130	F
Benzo[g,h,i]perylene	857	561	-12	19	40	32-130	F
Benzo[k]fluoranthene	857	669	34	5	40	32-130	
Chrysene	857	915	30	5	40	41-130	F
Dibenz(a,h)anthracene	857	474	33	14	40	27-130	
Fluoranthene	857	832	49	6	40	40-130	
Fluorene	857	456	53	5	40	40-130	
Indeno[1,2,3-cd]pyrene	857	530	-6	15	40	30-130	F
1-Methylnaphthalene	857	745	59	28	40	31-130	
2-Methylnaphthalene	857	735	56	32	40	33-130	
Naphthalene	857	639	55	21	40	36-130	
Phenanthrene	857	739	55	16	40	42-130	
Pyrene	857	737	38	13	40	44-130	F

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1CD22012.D Lab Sample ID: MB 660-136637/1-A
Matrix: Solid Date Extracted: 04/19/2013 11:14
Instrument ID: BSMC5973 Date Analyzed: 04/22/2013 15:20
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136637/2-A	1CD22013.D	04/22/2013 15:38
	680-89328-A-8-B MS	1CD22017.D	04/22/2013 16:51
	680-89328-A-8-C MSD	1CD22018.D	04/22/2013 17:10
FM0013A-CS	680-89459-1	1CD22027.D	04/22/2013 19:55
FM0013B-CS	680-89459-2	1CD22028.D	04/22/2013 20:13
FM0015A-CS	680-89459-3	1CD22029.D	04/22/2013 20:31
FM0015B-CS	680-89459-4	1CD22030.D	04/22/2013 20:50
FM0015C-GS	680-89459-5	1CD22031.D	04/22/2013 21:08
FM0337A-CS	680-89459-6	1CD22032.D	04/22/2013 21:26
FM0337B-CS	680-89459-7	1CD22033.D	04/22/2013 21:45
FM0337B-CSD	680-89459-8	1CD22034.D	04/22/2013 22:03
FM0342A-CS	680-89459-9	1CD22035.D	04/22/2013 22:22

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1DD23008.D Lab Sample ID: MB 660-136660/1-A
Matrix: Solid Date Extracted: 04/19/2013 15:35
Instrument ID: BSMD5973 Date Analyzed: 04/23/2013 15:37
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136660/2-A	1DD23009.D	04/23/2013 15:59
	680-89328-A-25-B MS	1DD23011.D	04/23/2013 16:44
	680-89328-A-25-C MSD	1DD23012.D	04/23/2013 17:07
FM0342B-CS	680-89459-10	1DD23013.D	04/23/2013 17:29
CV1066A-CS-SP	680-89459-11	1DD23014.D	04/23/2013 17:52
CV1225A-CS-SP	680-89459-13	1DD23015.D	04/23/2013 18:14
CV1282A-CS-SP	680-89459-14	1DD23016.D	04/23/2013 18:37
CV1282B-CS-SP	680-89459-15	1DD23017.D	04/23/2013 19:00
CV1282C-CS-SP	680-89459-16	1DD23018.D	04/23/2013 19:22
CV1282D-CS-SP	680-89459-17	1DD23019.D	04/23/2013 19:45
CV1217A-CS	680-89459-18	1DD23020.D	04/23/2013 20:07
CV1217B-CS	680-89459-19	1DD23021.D	04/23/2013 20:30
CV1219A-CS	680-89459-20	1DD23022.D	04/23/2013 20:52

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1DD24014.D Lab Sample ID: MB 660-136752/1-A
Matrix: Solid Date Extracted: 04/23/2013 14:49
Instrument ID: BSMD5973 Date Analyzed: 04/24/2013 16:55
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136752/2-A	1DD24015.D	04/24/2013 17:18
CV1066B-CS-SP	680-89459-12	1DD24016.D	04/24/2013 17:40
CV1066B-CS-SP MS	680-89459-12 MS	1DD24017.D	04/24/2013 18:03
CV1066B-CS-SP MSD	680-89459-12 MSD	1DD24018.D	04/24/2013 18:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1CD11002.D DFTPP Injection Date: 04/11/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:38
Analysis Batch No.: 136370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	0.6 (1.3) 1
69	Mass 69 relative abundance	48.8
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	10.0 - 80.0 % of mass 198	45.9
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.8
275	10.0 - 60.0 % of mass 198	20.8
365	Greater than 1.0 % of mass 198	5.1
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	76.7
443	15.0 - 24.0 % of mass 442	16.1 (20.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136370/3	1CD11003.D	04/11/2013	11:56
	IC 660-136370/4	1CD11004.D	04/11/2013	12:35
	IC 660-136370/5	1CD11005.D	04/11/2013	12:53
	IC 660-136370/6	1CD11006.D	04/11/2013	13:11
	IC 660-136370/7	1CD11007.D	04/11/2013	13:30
	IC 660-136370/8	1CD11008.D	04/11/2013	13:48
	IC 660-136370/9	1CD11009.D	04/11/2013	14:06
	ICV 660-136370/10	1CD11010.D	04/11/2013	14:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1CD22002.D DFTPP Injection Date: 04/22/2013
Instrument ID: BSMC5973 DFTPP Injection Time: 11:33
Analysis Batch No.: 136698

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	59.9
68	Less than 2.0 % of mass 69	1.1 (1.9)1
69	Mass 69 relative abundance	60.9
70	Less than 2.0 % of mass 69	0.7 (1.1)1
127	10.0 - 80.0 % of mass 198	56.3
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.8
275	10.0 - 60.0 % of mass 198	28.5
365	Greater than 1.0 % of mass 198	6.9
441	Present but less than mass 443	11.8
442	Greater than 50.0 % of mass 198	72.8
443	15.0 - 24.0 % of mass 442	15.2 (20.8)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 660-136698/3	1CD22003.D	04/22/2013	11:50
	MB 660-136637/1-A	1CD22012.D	04/22/2013	15:20
	LCS 660-136637/2-A	1CD22013.D	04/22/2013	15:38
	680-89328-A-8-B MS	1CD22017.D	04/22/2013	16:51
	680-89328-A-8-C MSD	1CD22018.D	04/22/2013	17:10
FM0013A-CS	680-89459-1	1CD22027.D	04/22/2013	19:55
FM0013B-CS	680-89459-2	1CD22028.D	04/22/2013	20:13
FM0015A-CS	680-89459-3	1CD22029.D	04/22/2013	20:31
FM0015B-CS	680-89459-4	1CD22030.D	04/22/2013	20:50
FM0015C-GS	680-89459-5	1CD22031.D	04/22/2013	21:08
FM0337A-CS	680-89459-6	1CD22032.D	04/22/2013	21:26
FM0337B-CS	680-89459-7	1CD22033.D	04/22/2013	21:45
FM0337B-CSD	680-89459-8	1CD22034.D	04/22/2013	22:03
FM0342A-CS	680-89459-9	1CD22035.D	04/22/2013	22:22

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
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.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1DD23003.D DFTPP Injection Date: 04/23/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:50
Analysis Batch No.: 136756

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.6
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	41.5
70	Less than 2.0 % of mass 69	0.2 (0.5) 1
127	10.0 - 80.0 % of mass 198	50.5
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	30.3
365	Greater than 1.0 % of mass 198	4.1
441	Present but less than mass 443	7.5
442	Greater than 50.0 % of mass 198	94.6
443	15.0 - 24.0 % of mass 442	18.5 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136756/4	1DD23004.D	04/23/2013	13:06
	MB 660-136660/1-A	1DD23008.D	04/23/2013	15:37
	LCS 660-136660/2-A	1DD23009.D	04/23/2013	15:59
	680-89328-A-25-B MS	1DD23011.D	04/23/2013	16:44
	680-89328-A-25-C MSD	1DD23012.D	04/23/2013	17:07
FM0342B-CS	680-89459-10	1DD23013.D	04/23/2013	17:29
CV1066A-CS-SP	680-89459-11	1DD23014.D	04/23/2013	17:52
CV1225A-CS-SP	680-89459-13	1DD23015.D	04/23/2013	18:14
CV1282A-CS-SP	680-89459-14	1DD23016.D	04/23/2013	18:37
CV1282B-CS-SP	680-89459-15	1DD23017.D	04/23/2013	19:00
CV1282C-CS-SP	680-89459-16	1DD23018.D	04/23/2013	19:22
CV1282D-CS-SP	680-89459-17	1DD23019.D	04/23/2013	19:45
CV1217A-CS	680-89459-18	1DD23020.D	04/23/2013	20:07
CV1217B-CS	680-89459-19	1DD23021.D	04/23/2013	20:30
CV1219A-CS	680-89459-20	1DD23022.D	04/23/2013	20:52

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Lab File ID: 1DD24002.D DFTPP Injection Date: 04/24/2013
Instrument ID: BSMD5973 DFTPP Injection Time: 12:30
Analysis Batch No.: 136826

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.0
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	38.5
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	10.0 - 80.0 % of mass 198	46.6
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	31.3
365	Greater than 1.0 % of mass 198	3.8
441	Present but less than mass 443	14.0
442	Greater than 50.0 % of mass 198	90.4
443	15.0 - 24.0 % of mass 442	19.2 (21.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136826/3	1DD24003.D	04/24/2013	12:46
	MB 660-136752/1-A	1DD24014.D	04/24/2013	16:55
	LCS 660-136752/2-A	1DD24015.D	04/24/2013	17:18
CV1066B-CS-SP	680-89459-12	1DD24016.D	04/24/2013	17:40
CV1066B-CS-SP MS	680-89459-12 MS	1DD24017.D	04/24/2013	18:03
CV1066B-CS-SP MSD	680-89459-12 MSD	1DD24018.D	04/24/2013	18:25

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
SDG No.: 68089459-1
Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N
Calibration ID: 2882

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	245713	3.68	179699	4.76	320372	5.70
UPPER LIMIT	491426	4.18	359398	5.26	640744	6.20
LOWER LIMIT	122857	3.18	89850	4.26	160186	5.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136370/10		273342	3.67	204687	4.76	380421 5.70

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.: 680-89459-1
SDG No.: 68089459-1
Sample No.: ICIS 660-136370/3 Date Analyzed: 04/11/2013 11:56
Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
Lab File ID (Standard): 1CD11003.D Heated Purge: (Y/N) N
Calibration ID: 2882

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	410945	7.65	438804	8.80		
UPPER LIMIT	821890	8.15	877608	9.30		
LOWER LIMIT	205473	7.15	219402	8.30		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136370/10		501991	7.64	491170	8.80	

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.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	177233	3.65	115325	4.74	215585	5.68	
UPPER LIMIT	354466	4.15	230650	5.24	431170	6.18	
LOWER LIMIT	88617	3.15	57663	4.24	107793	5.18	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136637/1-A		198118	3.65	144074	4.74	250592	5.69
LCS 660-136637/2-A		194740	3.65	124944	4.74	229447	5.68
680-89328-A-8-B MS		207649	3.65	130313	4.74	251724	5.68
680-89328-A-8-C MSD		215035	3.65	137990	4.74	254165	5.68
680-89459-1	FM0013A-CS	229888	3.65	157010	4.74	298125	5.68
680-89459-2	FM0013B-CS	232303	3.65	173805	4.74	292304	5.68
680-89459-3	FM0015A-CS	222322	3.65	154606	4.74	275104	5.68
680-89459-4	FM0015B-CS	208275	3.65	151542	4.74	278525	5.68
680-89459-5	FM0015C-GS	240896	3.65	168419	4.74	299915	5.68
680-89459-6	FM0337A-CS	214709	3.65	155812	4.74	293410	5.68
680-89459-7	FM0337B-CS	215362	3.65	145882	4.74	280801	5.68
680-89459-8	FM0337B-CSD	228352	3.65	151210	4.74	271384	5.68
680-89459-9	FM0342A-CS	231914	3.65	157412	4.74	296355	5.68

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.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136698/3 Date Analyzed: 04/22/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CD22003.D Heated Purge: (Y/N) N
 Calibration ID: 2882

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	268224	7.62	275000	8.76		
UPPER LIMIT	536448	8.12	550000	9.26		
LOWER LIMIT	134112	7.12	137500	8.26		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136637/1-A		308173	7.62	325429	8.78	
LCS 660-136637/2-A		303066	7.62	303188	8.76	
680-89328-A-8-B MS		309063	7.61	299307	8.76	
680-89328-A-8-C MSD		301869	7.61	310059	8.76	
680-89459-1	FM0013A-CS	311265	7.62	283727	8.76	
680-89459-2	FM0013B-CS	315244	7.61	292026	8.76	
680-89459-3	FM0015A-CS	304969	7.62	285480	8.76	
680-89459-4	FM0015B-CS	311994	7.62	276013	8.76	
680-89459-5	FM0015C-GS	290159	7.61	280066	8.76	
680-89459-6	FM0337A-CS	305134	7.62	282959	8.76	
680-89459-7	FM0337B-CS	308964	7.62	267444	8.76	
680-89459-8	FM0337B-CSD	306952	7.62	286518	8.76	
680-89459-9	FM0342A-CS	320183	7.62	271617	8.76	

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.: 680-89459-1
SDG No.: 68089459-1
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.: 680-89459-1
SDG No.: 68089459-1
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.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136756/4 Date Analyzed: 04/23/2013 13:06
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD23004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1580617	6.05	898769	7.73	1440899	9.00	
UPPER LIMIT	3161234	6.55	1797538	8.23	2881798	9.50	
LOWER LIMIT	790309	5.55	449385	7.23	720450	8.50	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136660/1-A		1783244	6.05	1022871	7.74	1640756	8.99
LCS 660-136660/2-A		1811705	6.05	1032077	7.73	1634283	9.00
680-89328-A-25-B MS		1708276	6.06	976004	7.74	1600101	8.99
680-89328-A-25-C MSD		1786951	6.05	1009070	7.73	1671555	9.00
680-89459-10	FM0342B-CS	1653112	6.05	939870	7.73	1514769	9.00
680-89459-11	CV1066A-CS-SP	1723817	6.06	966187	7.74	1579778	8.99
680-89459-13	CV1225A-CS-SP	1767057	6.06	1017116	7.74	1624888	9.00
680-89459-14	CV1282A-CS-SP	1725061	6.05	1004045	7.73	1628441	9.00
680-89459-15	CV1282B-CS-SP	1727561	6.05	994982	7.73	1604161	9.00
680-89459-16	CV1282C-CS-SP	1842640	6.06	1060581	7.74	1789929	9.00
680-89459-17	CV1282D-CS-SP	1727738	6.05	987220	7.74	1633348	9.00
680-89459-18	CV1217A-CS	1743374	6.06	999221	7.74	1661055	8.99
680-89459-19	CV1217B-CS	1733516	6.06	990757	7.74	1632252	8.99
680-89459-20	CV1219A-CS	1715937	6.06	987335	7.74	1596132	9.00

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.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136756/4 Date Analyzed: 04/23/2013 13:06
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD23004.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	1347354	11.30	1365132	13.12		
UPPER LIMIT	2694708	11.80	2730264	13.62		
LOWER LIMIT	673677	10.80	682566	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136660/1-A		1577513	11.30	1653399	13.12	
LCS 660-136660/2-A		1548433	11.30	1605678	13.12	
680-89328-A-25-B MS		1513680	11.30	1772427	13.12	
680-89328-A-25-C MSD		1598940	11.30	1867332	13.13	
680-89459-10	FM0342B-CS	1686982	11.31	1947914	13.13	
680-89459-11	CV1066A-CS-SP	1734289	11.31	2033652	13.14	
680-89459-13	CV1225A-CS-SP	1760113	11.31	2041287	13.14	
680-89459-14	CV1282A-CS-SP	1754166	11.31	2077177	13.13	
680-89459-15	CV1282B-CS-SP	1776231	11.31	2046421	13.13	
680-89459-16	CV1282C-CS-SP	1884191	11.31	2081264	13.14	
680-89459-17	CV1282D-CS-SP	1851269	11.31	2062669	13.14	
680-89459-18	CV1217A-CS	1890922	11.31	2088747	13.13	
680-89459-19	CV1217B-CS	1755033	11.31	1990200	13.13	
680-89459-20	CV1219A-CS	1874157	11.31	2028839	13.14	

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.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136826/3 Date Analyzed: 04/24/2013 12:46
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD24003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2248073	6.05	1360336	7.73	2236773	8.99
UPPER LIMIT	4496146	6.55	2720672	8.23	4473546	9.49
LOWER LIMIT	1124037	5.55	680168	7.23	1118387	8.49
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136752/1-A		2776941	6.05	1716814	7.73	2751589 8.99
LCS 660-136752/2-A		2121388	6.05	1279631	7.73	2148959 8.99
680-89459-12	CV1066B-CS-SP	2509240	6.05	1568970	7.73	2599022 8.99
680-89459-12 MS	CV1066B-CS-SP MS	2400135	6.05	1499955	7.73	2473191 8.99
680-89459-12 MSD	CV1066B-CS-SP MSD	2135220	6.05	1306096	7.73	2167620 8.99

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 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Sample No.: CCVIS 660-136826/3 Date Analyzed: 04/24/2013 12:46
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DD24003.D Heated Purge: (Y/N) N
 Calibration ID: 2874

	CRY		PRY			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	2287204	11.30	2285243	13.12		
UPPER LIMIT	4574408	11.80	4570486	13.62		
LOWER LIMIT	1143602	10.80	1142622	12.62		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136752/1-A		2681161	11.30	2646796	13.12	
LCS 660-136752/2-A		2097144	11.30	2063943	13.11	
680-89459-12	CV1066B-CS-SP	2569248	11.30	2825104	13.12	
680-89459-12 MS	CV1066B-CS-SP MS	2504454	11.30	2755551	13.13	
680-89459-12 MSD	CV1066B-CS-SP MSD	2289978	11.30	2478345	13.13	

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>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0013A-CS</u>	Lab Sample ID: <u>680-89459-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22027.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.41(g)</u>	Date Analyzed: <u>04/22/2013 19:55</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>25.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</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	19	J	52	6.5
120-12-7	Anthracene	48		11	5.5
56-55-3	Benzo[a]anthracene	220		10	5.1
50-32-8	Benzo[a]pyrene	180		14	6.8
205-99-2	Benzo[b]fluoranthene	260		16	7.9
191-24-2	Benzo[g,h,i]perylene	96		26	5.7
207-08-9	Benzo[k]fluoranthene	120		10	4.7
218-01-9	Chrysene	220		12	5.8
53-70-3	Dibenz(a,h)anthracene	76		26	5.3
206-44-0	Fluoranthene	420		26	5.2
86-73-7	Fluorene	5.9	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	140		26	9.2
90-12-0	1-Methylnaphthalene	8.5	J	52	5.7
91-57-6	2-Methylnaphthalene	52	U	52	9.2
91-20-3	Naphthalene	24	J	52	5.7
85-01-8	Phenanthrene	200		10	5.1
129-00-0	Pyrene	340		26	4.8

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\1C042213.b\1CD22027.D
 Lab Smp Id: 680-89459-A-1-A Client Smp ID: FM0013A-CS
 Inj Date : 22-APR-2013 19:55
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-89459-a-1-a
 Misc Info : 680-89459-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1-a-bFASTPAHi-m.m
 Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	25.055	% 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		3.651	3.651	(1.000)		229888	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		157010	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		298125	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		29367	6.63822	574.7855
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		311265	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		283727	40.0000	
2 Naphthalene	128		3.669	3.663	(1.005)		1740	0.28000	24.2446(Q)
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		388	0.09775	8.4636(Q)
5 Acenaphthylene	152		4.651	4.651	(0.981)		1445	0.21719	18.8060
9 Fluorene	166		5.086	5.080	(1.073)		345	0.06762	5.8547(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		20358	2.33173	201.8982
12 Anthracene	178		5.727	5.733	(1.008)		4808	0.55552	48.1013
13 Carbazole	167		5.839	5.839	(1.028)		1426	0.17691	15.3179(Q)
15 Fluoranthene	202		6.527	6.527	(1.149)		46951	4.85470	420.3559

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Pyrene	202	6.692	6.692	(0.879)	34612	3.90868	338.4422
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	22328	2.53671	219.6466
19 Chrysene	228	7.633	7.633	(1.002)	22223	2.55222	220.9895
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	21817	3.04442	263.6084
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	10959	1.35147	117.0199(Q)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	15250	2.05869	178.2567
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	6769	1.55919	135.0065(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	3091	0.87247	75.5444(MH)
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	7702	1.10929	96.0503(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: 1CD22027.D

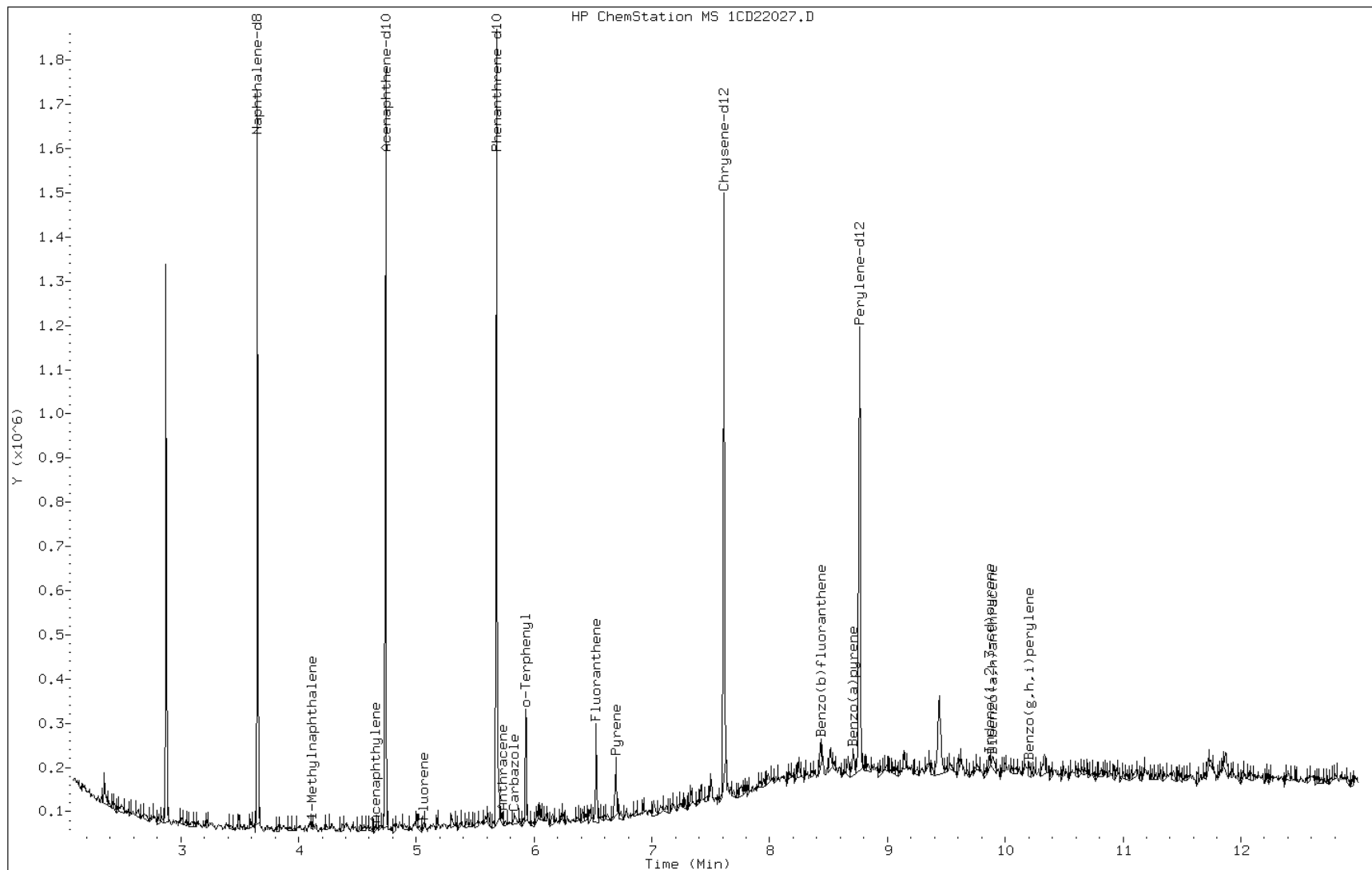
Date: 22-APR-2013 19:55

Client ID: FM0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-1-a

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

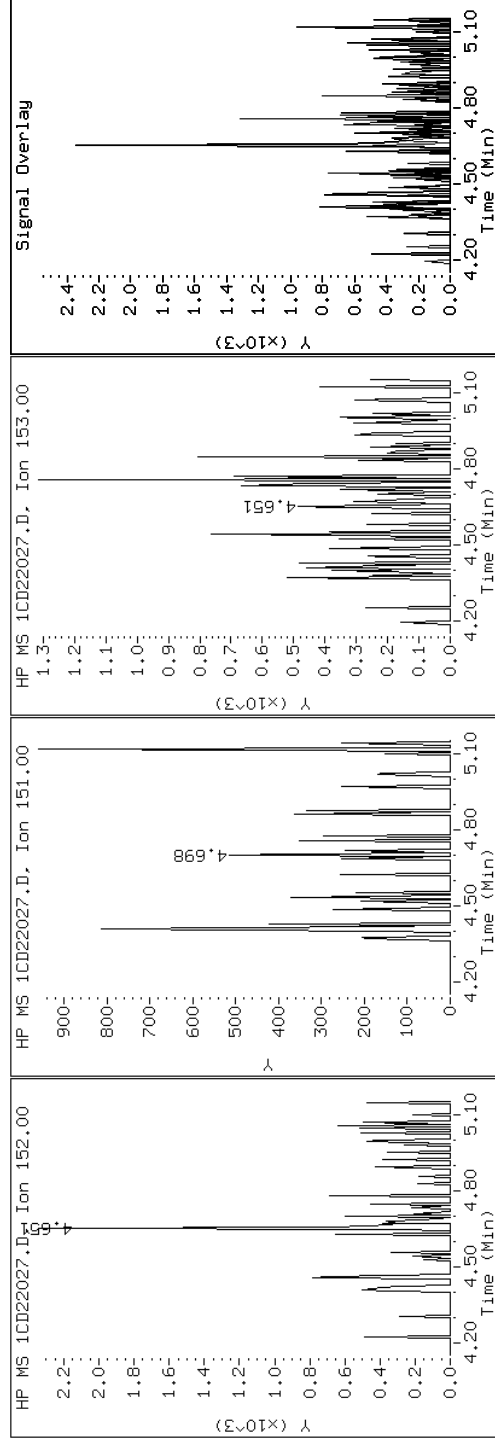
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

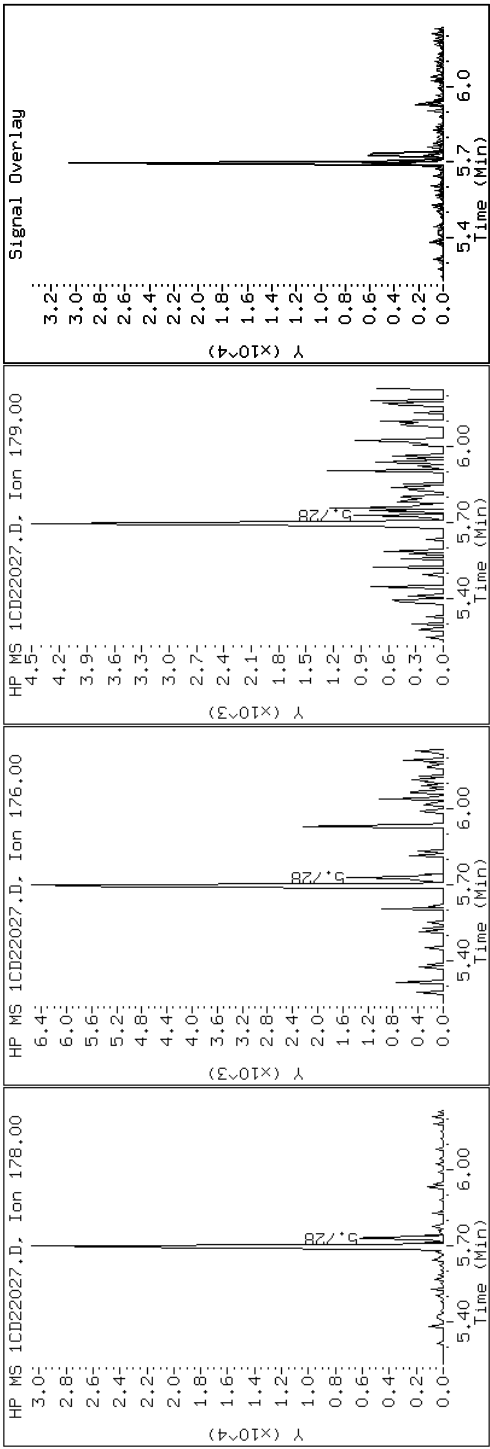
Client ID: FM0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-1-a

Operator: SCC

12 Anthracene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

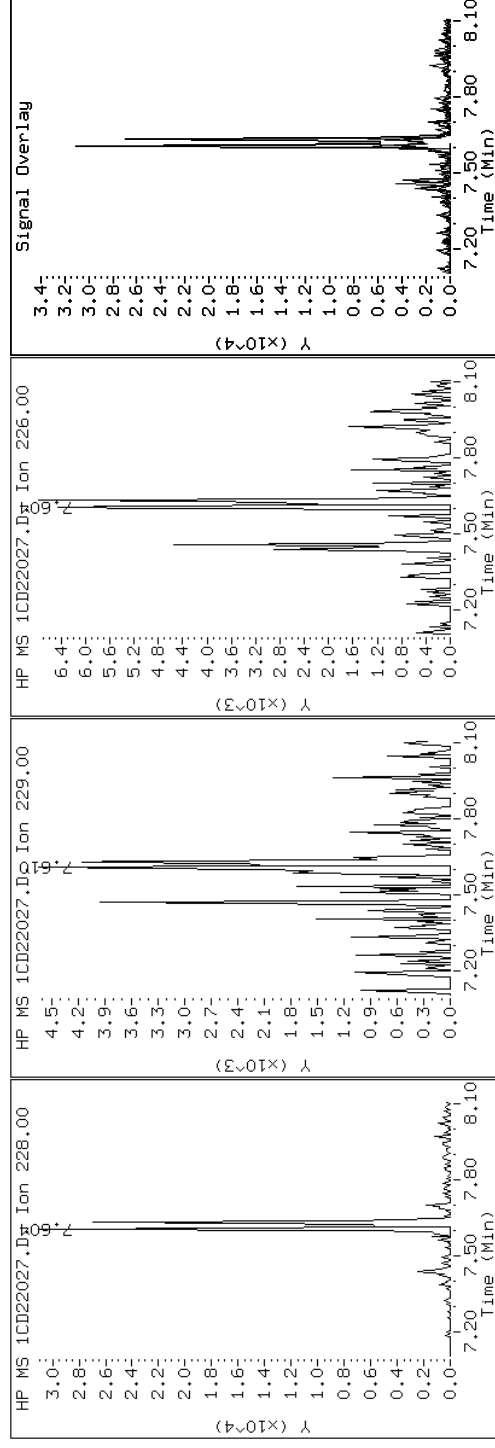
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

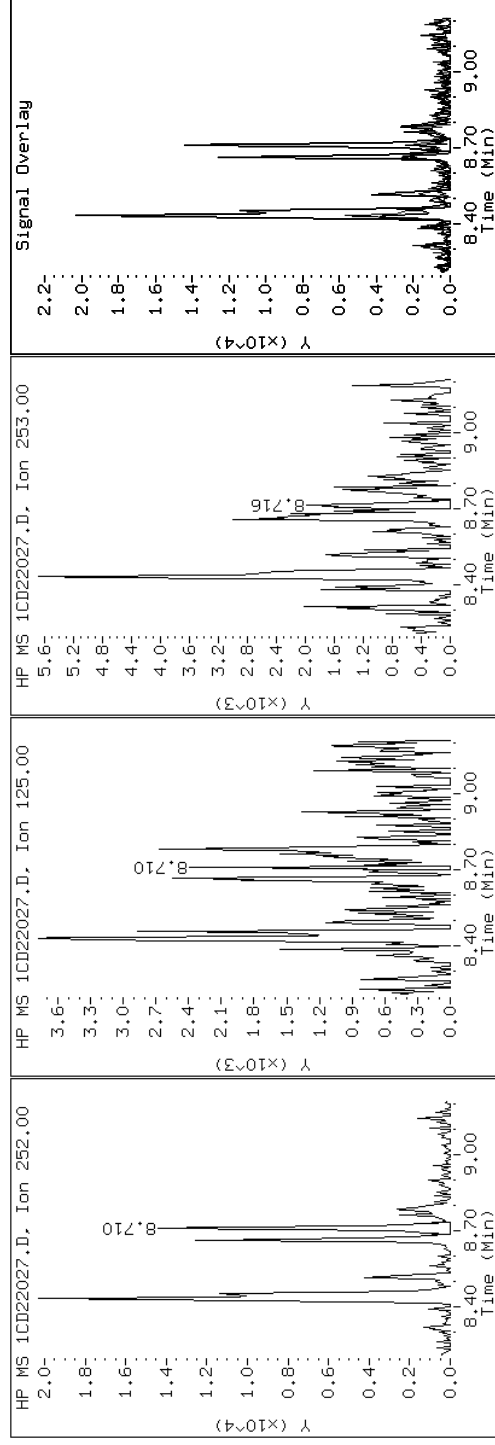
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

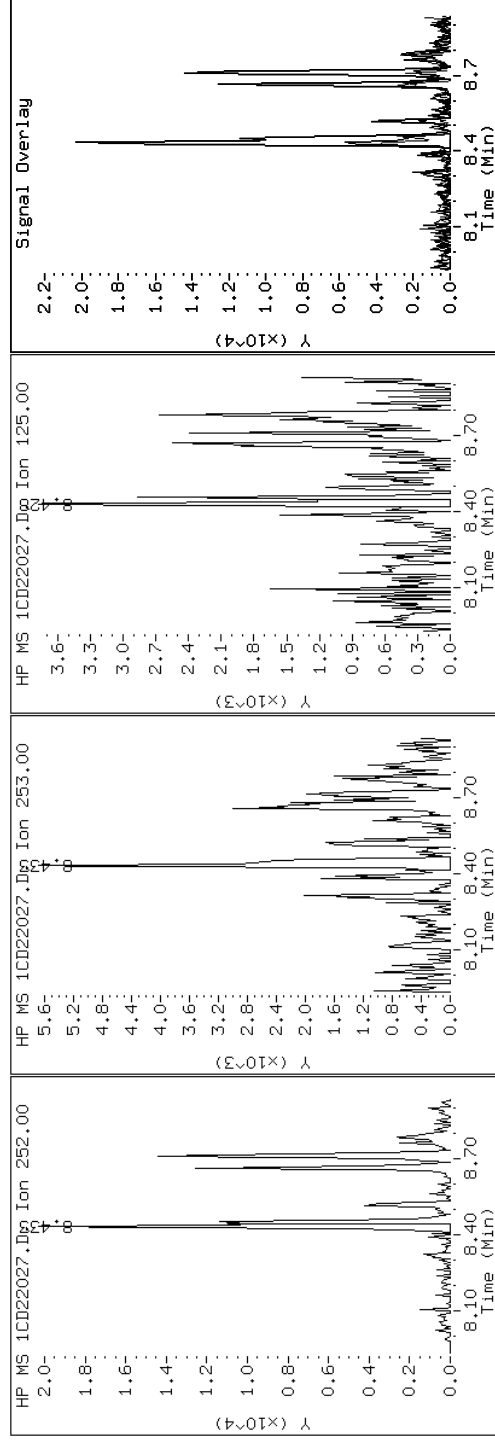
Client ID: FM0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-1-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

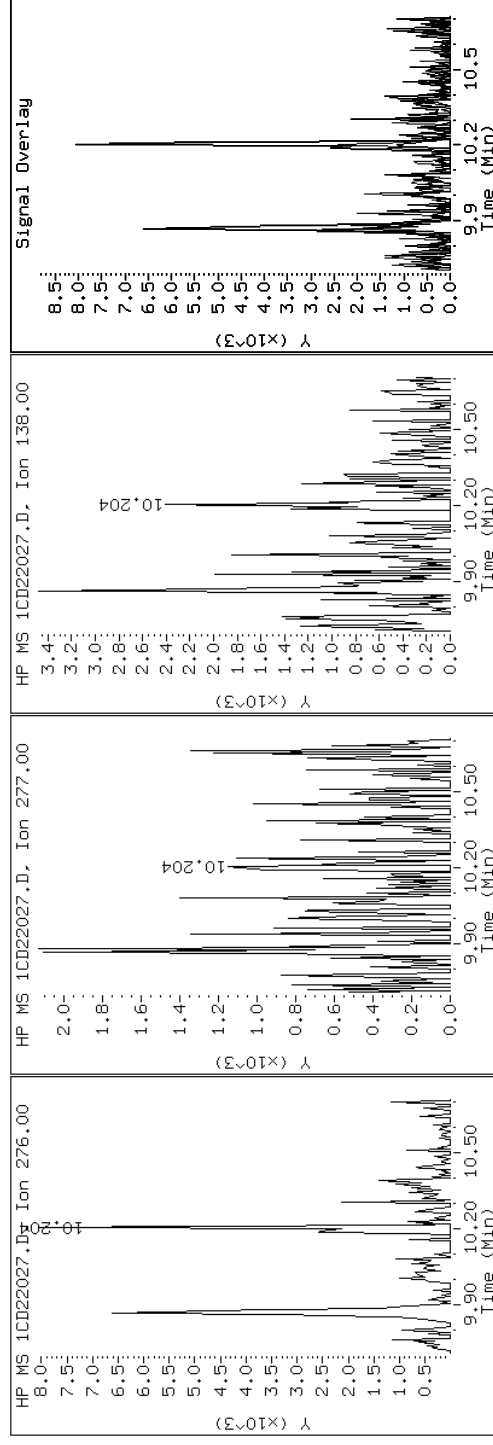
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

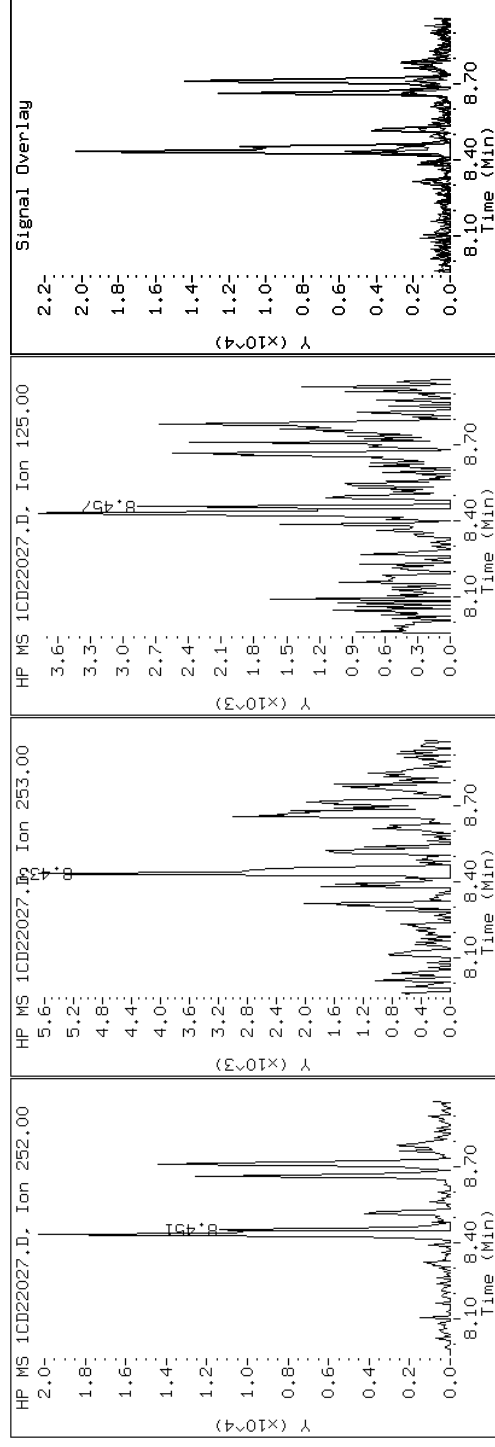
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

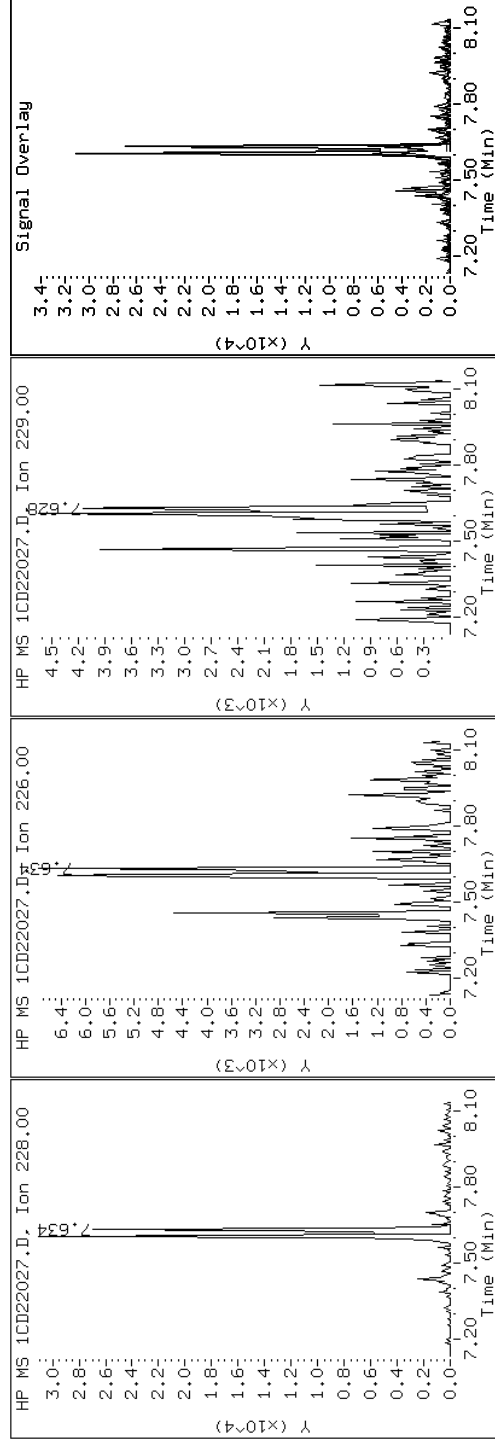
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

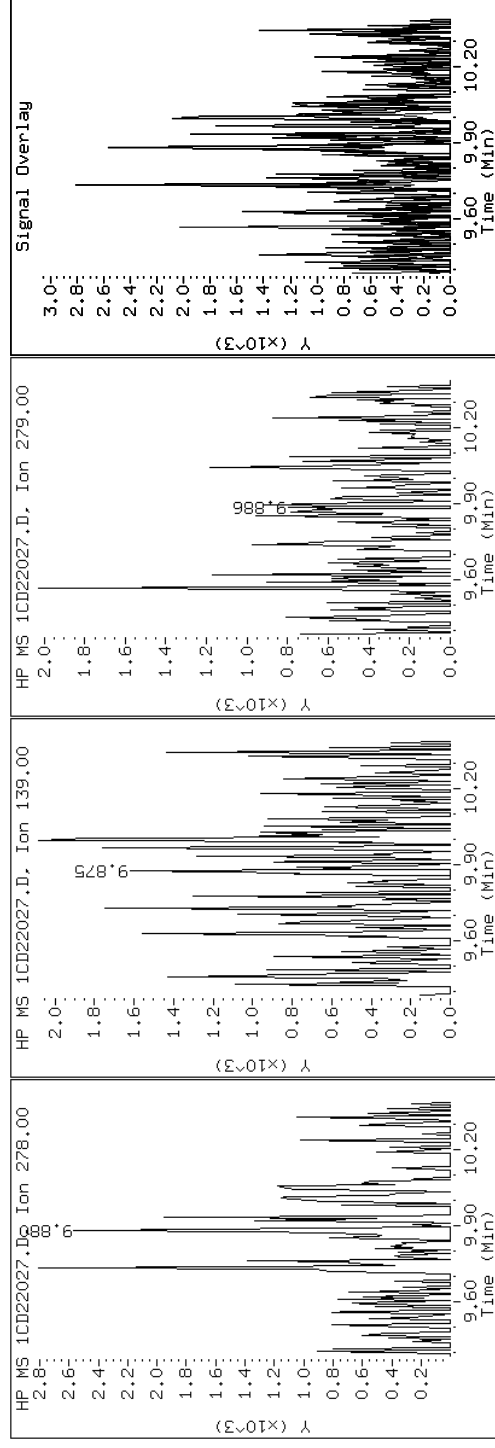
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

25 Dibenzo(a,h)anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

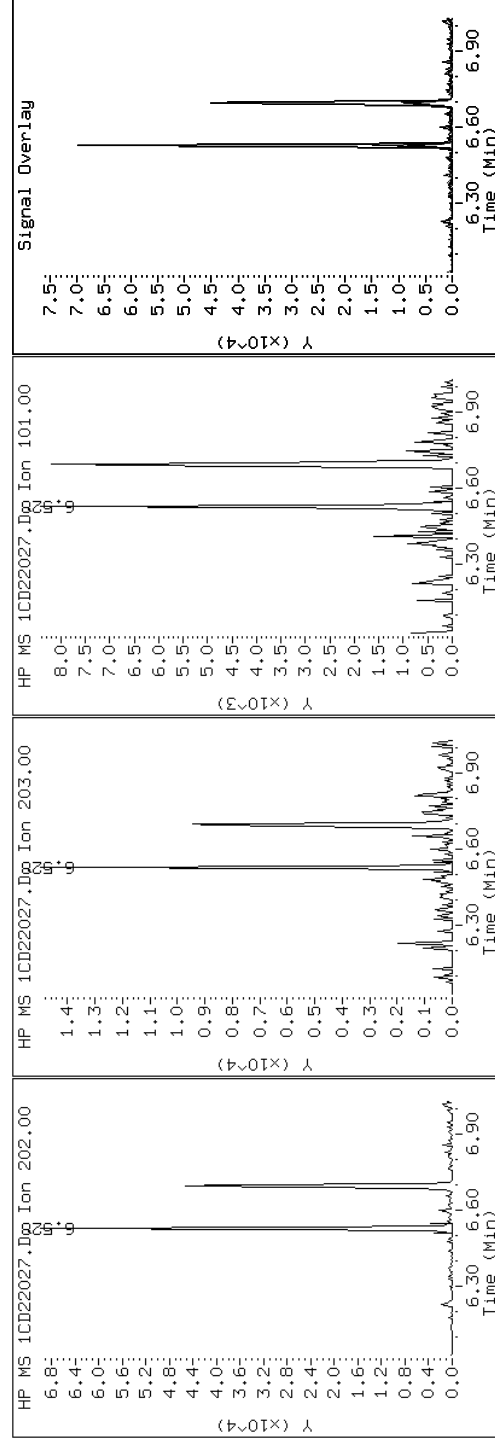
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

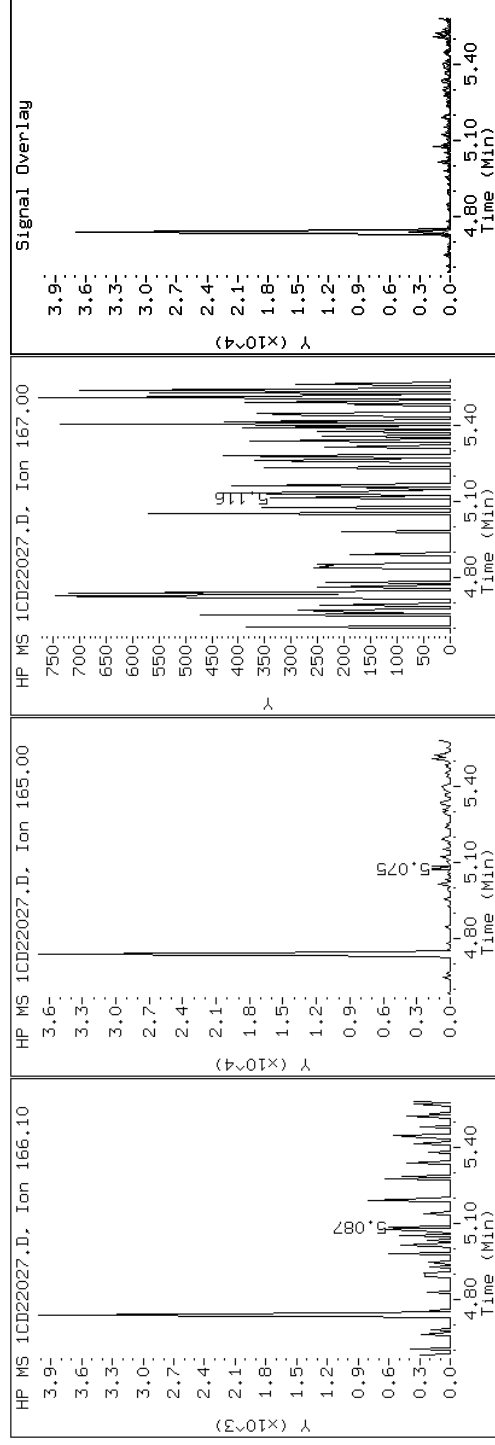
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

9 Fluorene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

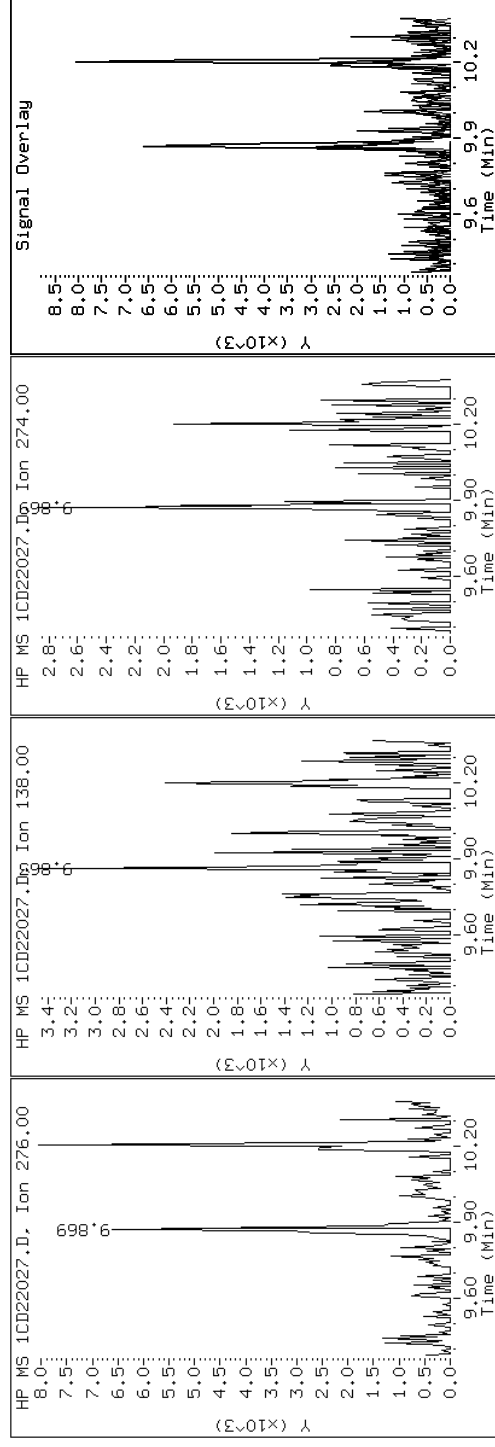
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

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



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

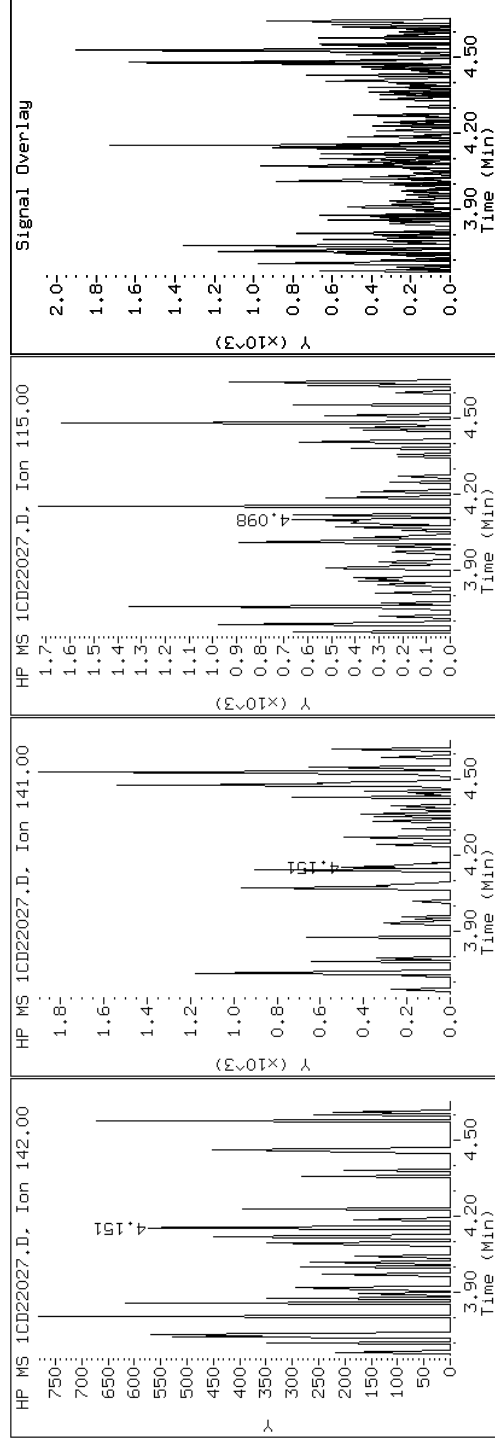
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

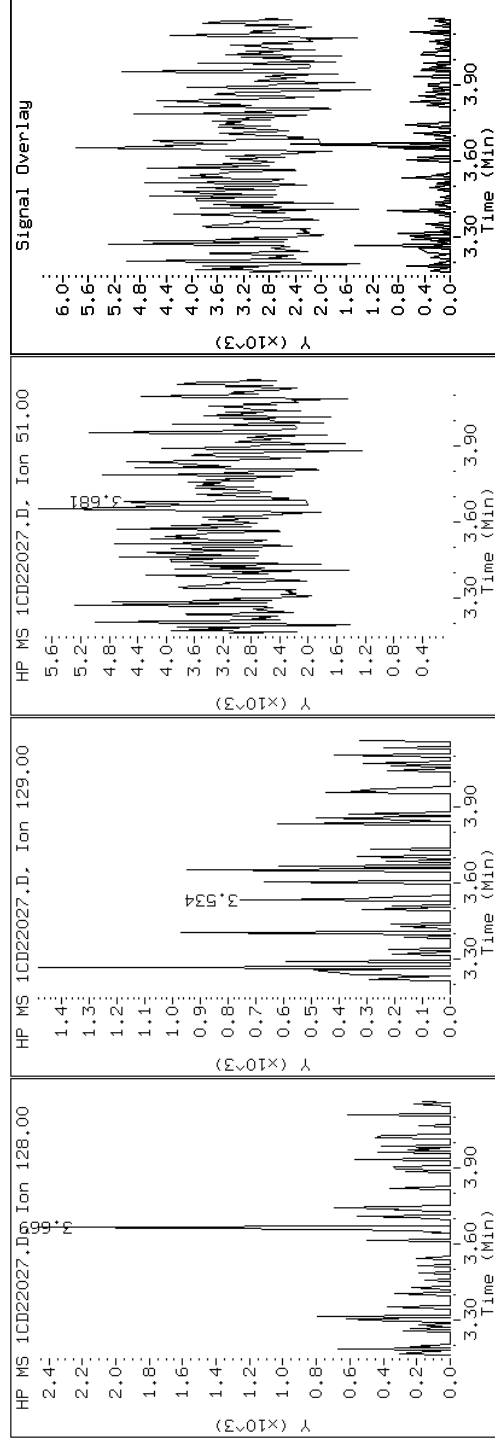
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

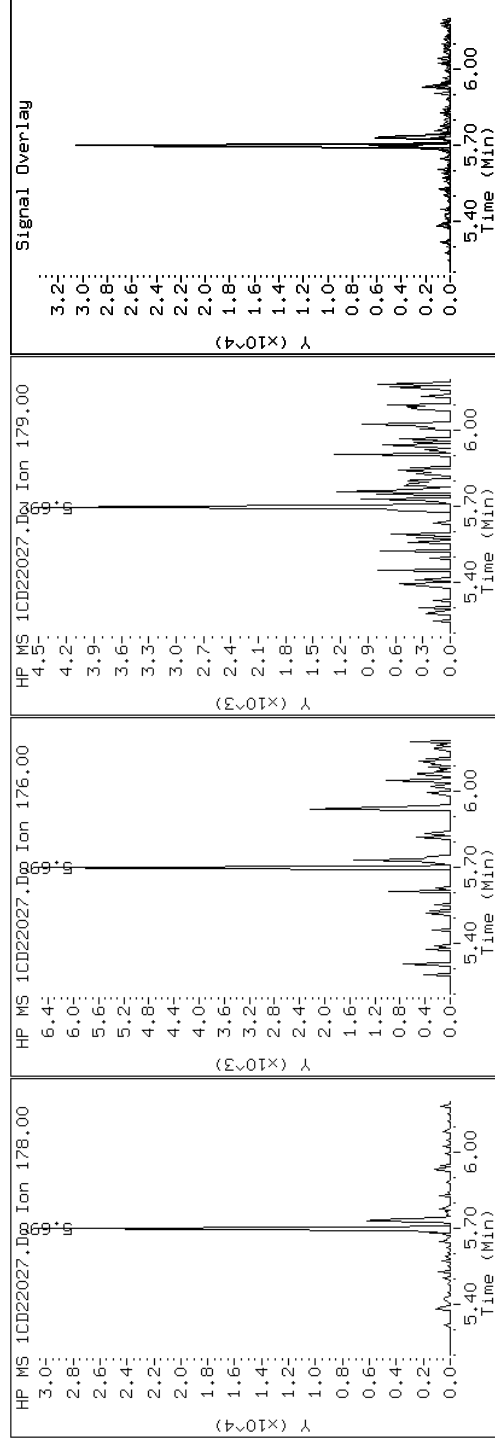
Client ID: FM0013A-CS

Sample Info: 680-89459-a-1-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22027.D

Date: 22-APR-2013 19:55

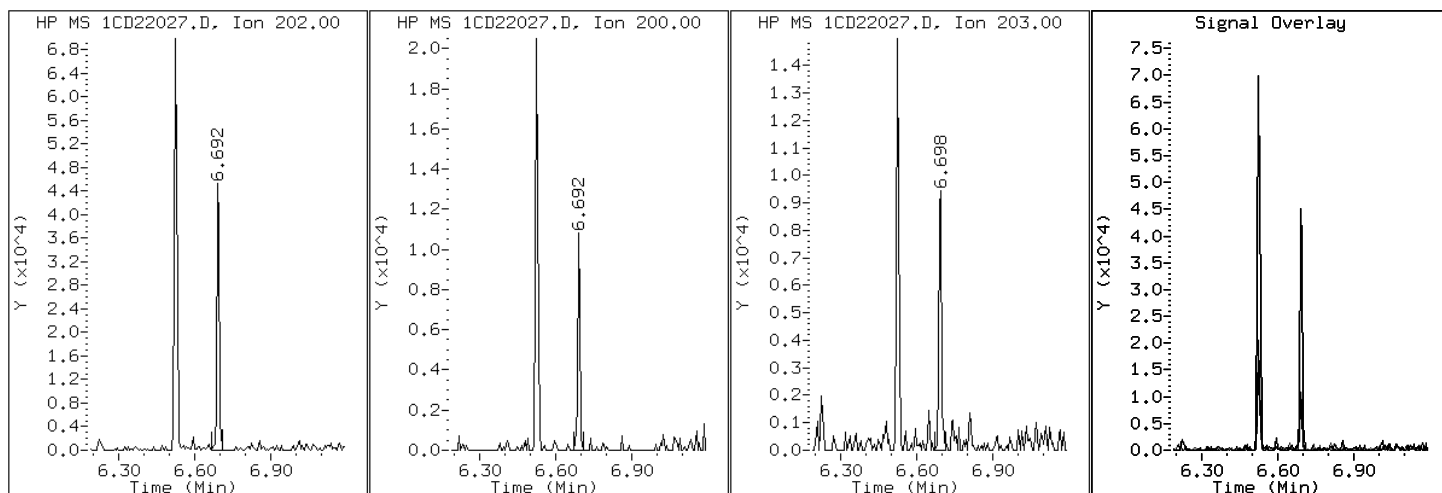
Client ID: FM0013A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-1-a

Operator: SCC

16 Pyrene

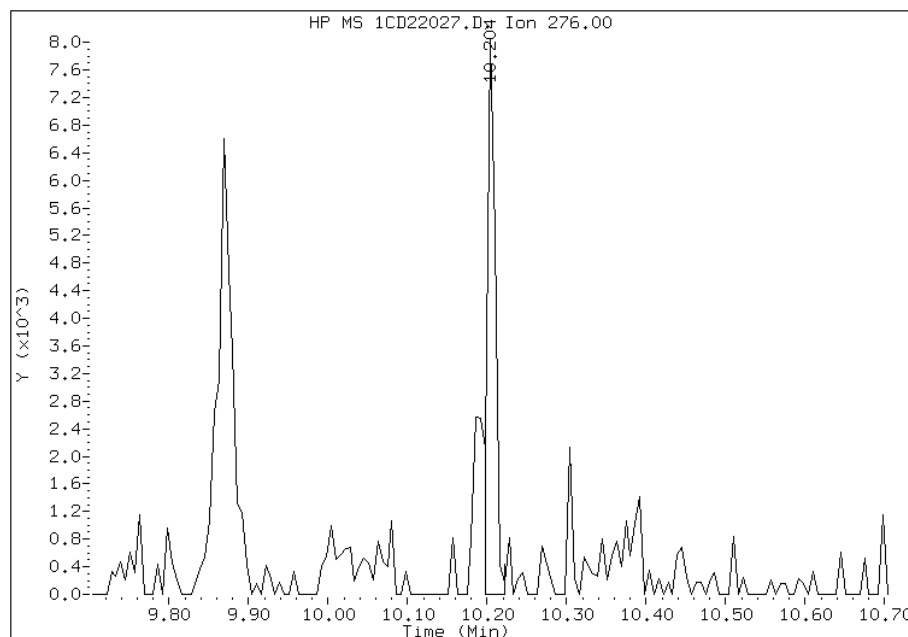


Manual Integration Report

Data File: 1CD22027.D
Inj. Date and Time: 22-APR-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0013A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

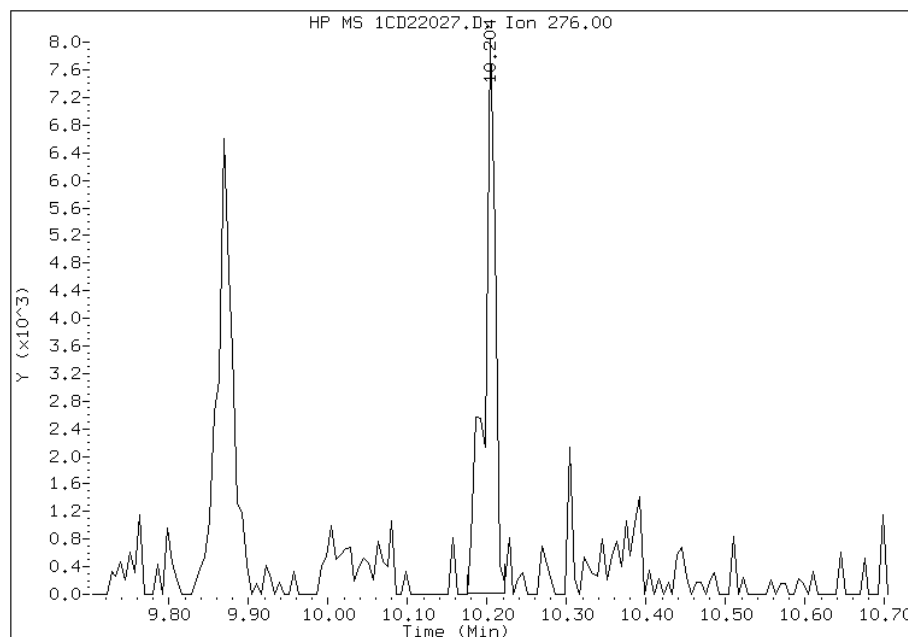
Processing Integration Results

RT: 10.20
Response: 5650
Amount: 1
Conc: 70



Manual Integration Results

RT: 10.20
Response: 7702
Amount: 1
Conc: 96



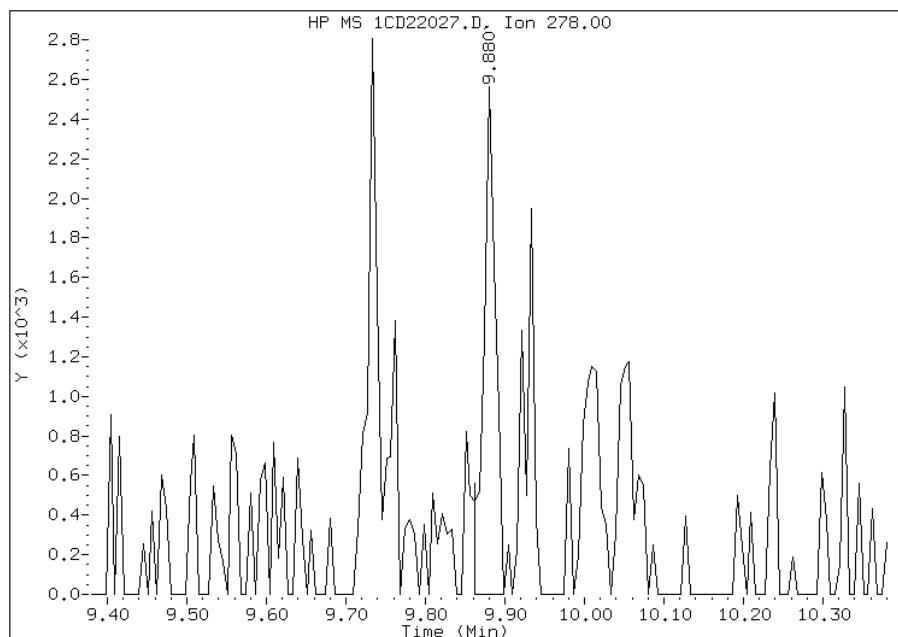
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22027.D
Inj. Date and Time: 22-APR-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0013A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

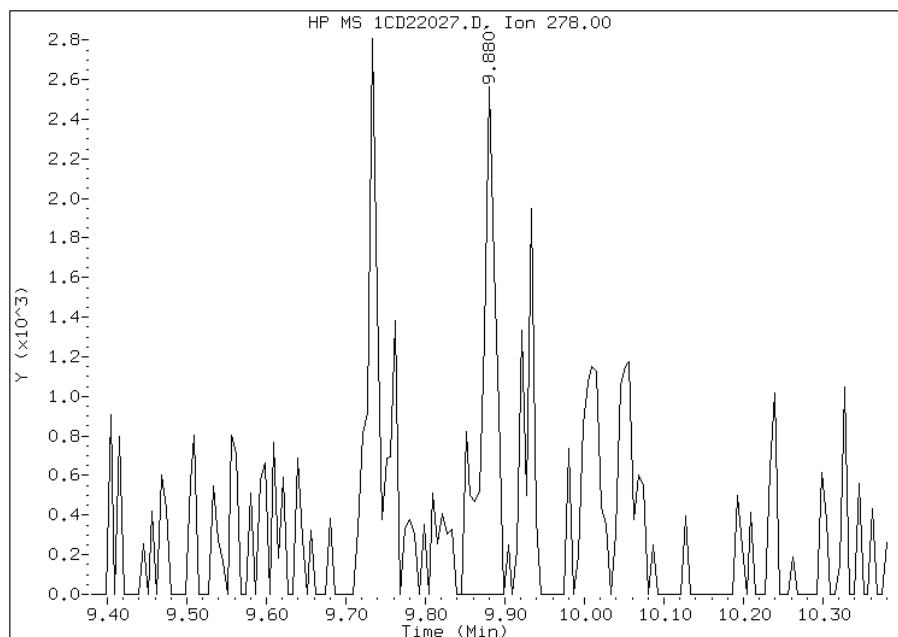
Processing Integration Results

RT: 9.88
Response: 2629
Amount: 1
Conc: 70



Manual Integration Results

RT: 9.88
Response: 3091
Amount: 1
Conc: 76



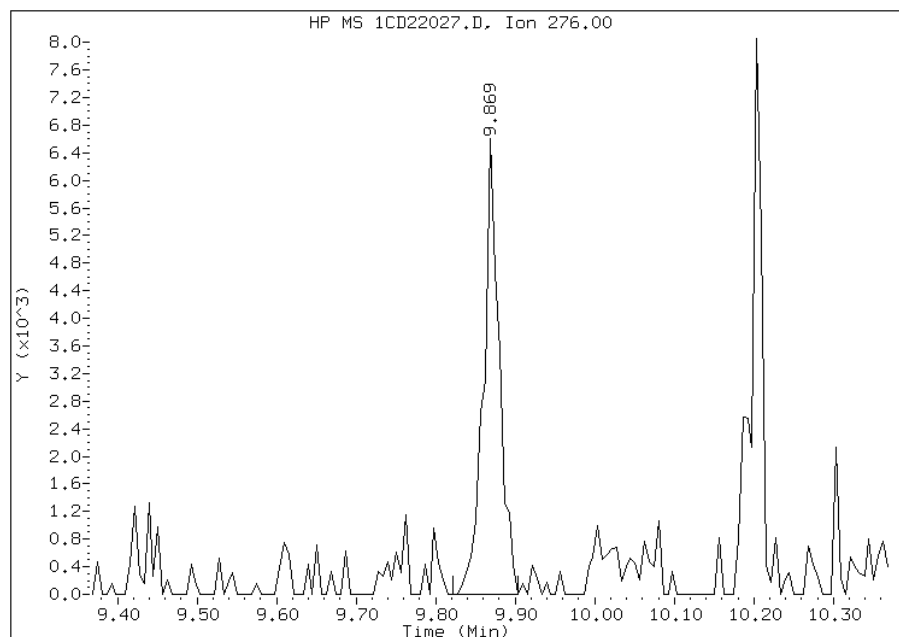
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22027.D
Inj. Date and Time: 22-APR-2013 19:55
Instrument ID: BSMC5973.i
Client ID: FM0013A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

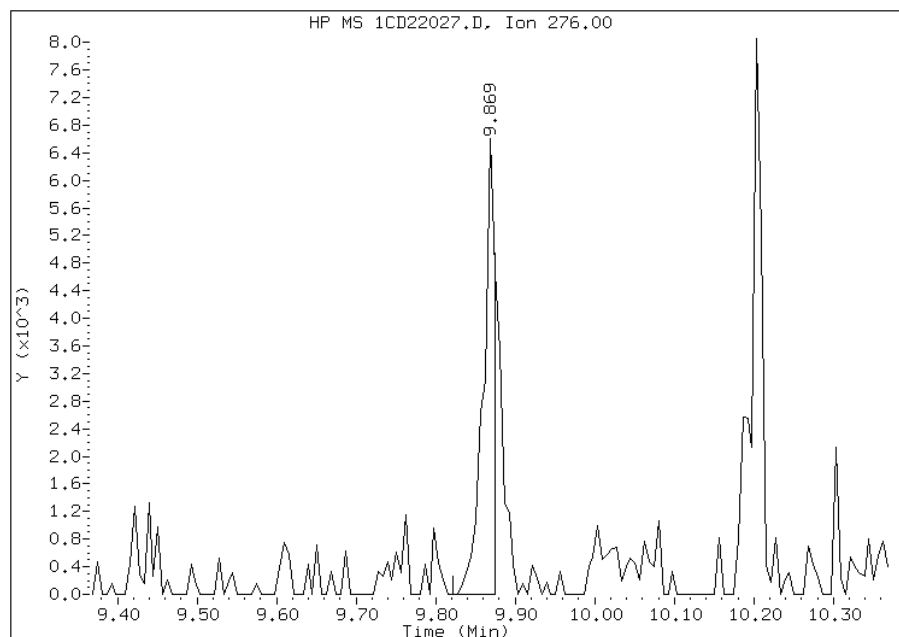
Processing Integration Results

RT: 9.87
Response: 9054
Amount: 2
Conc: 162



Manual Integration Results

RT: 9.87
Response: 6769
Amount: 2
Conc: 135



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0013B-CS</u>	Lab Sample ID: <u>680-89459-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22028.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.99(g)</u>	Date Analyzed: <u>04/22/2013 20:13</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>29.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</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	8.7	J	56	7.1
120-12-7	Anthracene	7.0	J	12	5.9
56-55-3	Benzo[a]anthracene	71		11	5.5
50-32-8	Benzo[a]pyrene	32		15	7.3
205-99-2	Benzo[b]fluoranthene	92		17	8.6
191-24-2	Benzo[g,h,i]perylene	43		28	6.2
207-08-9	Benzo[k]fluoranthene	25		11	5.1
218-01-9	Chrysene	43		13	6.3
53-70-3	Dibenz(a,h)anthracene	28	U	28	5.8
206-44-0	Fluoranthene	60		28	5.6
86-73-7	Fluorene	28	U	28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		28	10
90-12-0	1-Methylnaphthalene	12	J	56	6.2
91-57-6	2-Methylnaphthalene	47	J	56	10
91-20-3	Naphthalene	25	J	56	6.2
85-01-8	Phenanthrene	47		11	5.5
129-00-0	Pyrene	71		28	5.2

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\1C042213.b\1CD22028.D
Lab Smp Id: 680-89459-A-2-A Client Smp ID: FM0013B-CS
Inj Date : 22-APR-2013 20:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-2-a
Misc Info : 680-89459-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	29.048	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.651	3.651	(1.000)		232303	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		173805	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		292304	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		28465	6.57033	617.7582
* 18 Chrysene-d12	240		7.610	7.615	(1.000)		315244	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		292026	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		1698	0.27040	25.4239(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		937	0.49583	46.6188(Q)
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		518	0.12914	12.1421(Q)
5 Acenaphthylene	152		4.651	4.651	(0.981)		685	0.09301	8.7450(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		4222	0.49934	46.9492
12 Anthracene	178		5.721	5.733	(1.007)		630	0.07424	6.9802(QH)
15 Fluoranthene	202		6.527	6.527	(1.149)		6046	0.63760	59.9488
16 Pyrene	202		6.692	6.692	(0.879)		6814	0.75978	71.4365

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	6699	0.75147	70.6553
19 Chrysene	228	7.633	7.633	(1.003)	3998	0.45336	42.6257
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	7241	0.98172	92.3036
21 Benzo(k)fluoranthene	252	8.457	8.456	(0.965)	2182	0.26144	24.5810
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	2590	0.33970	31.9397
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.874	(1.128)	4017	1.16974	109.9816(M)
26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	3251	0.45492	42.7728(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: 1CD22028.D

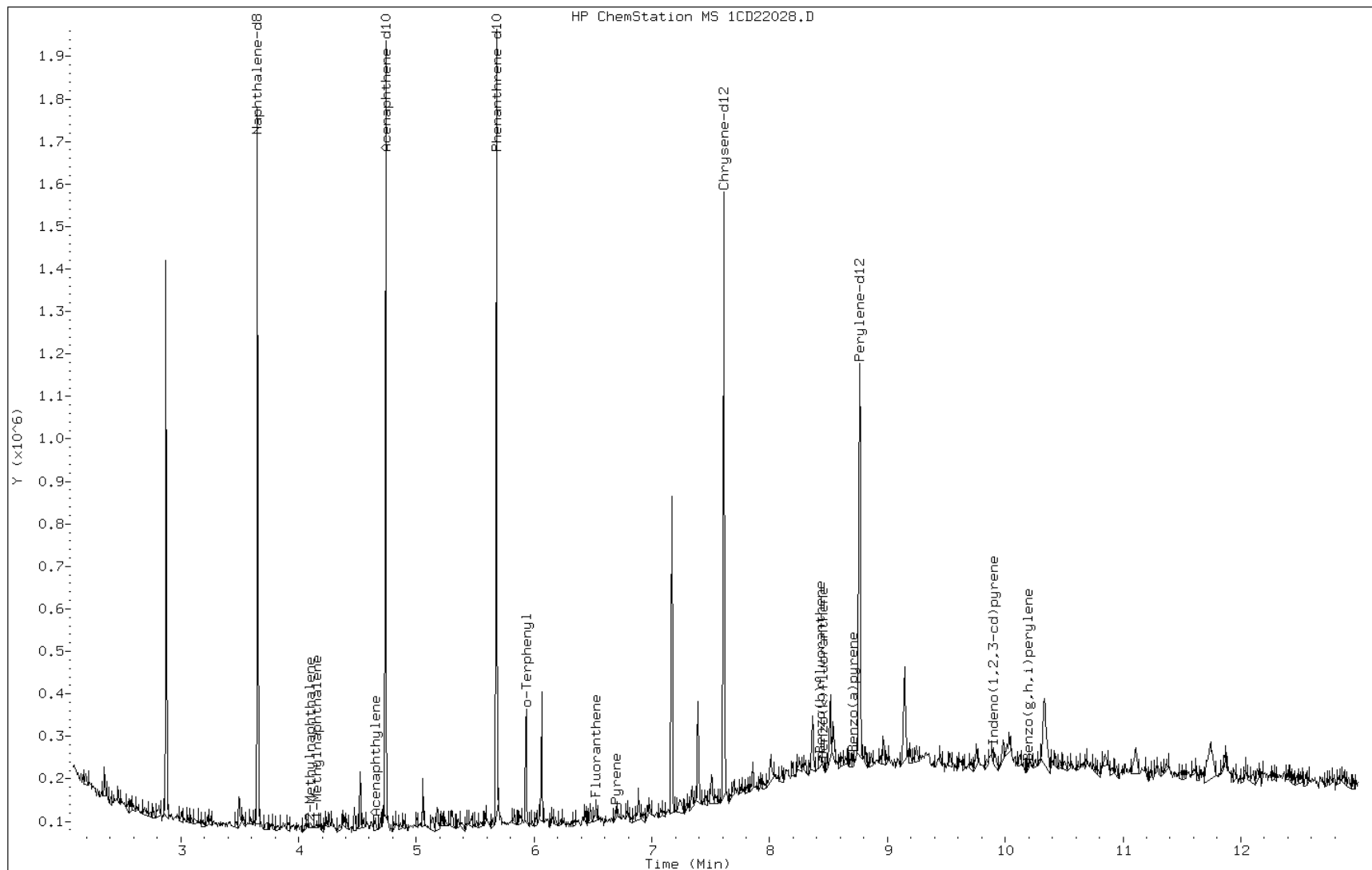
Date: 22-APR-2013 20:13

Client ID: FM0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-2-a

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

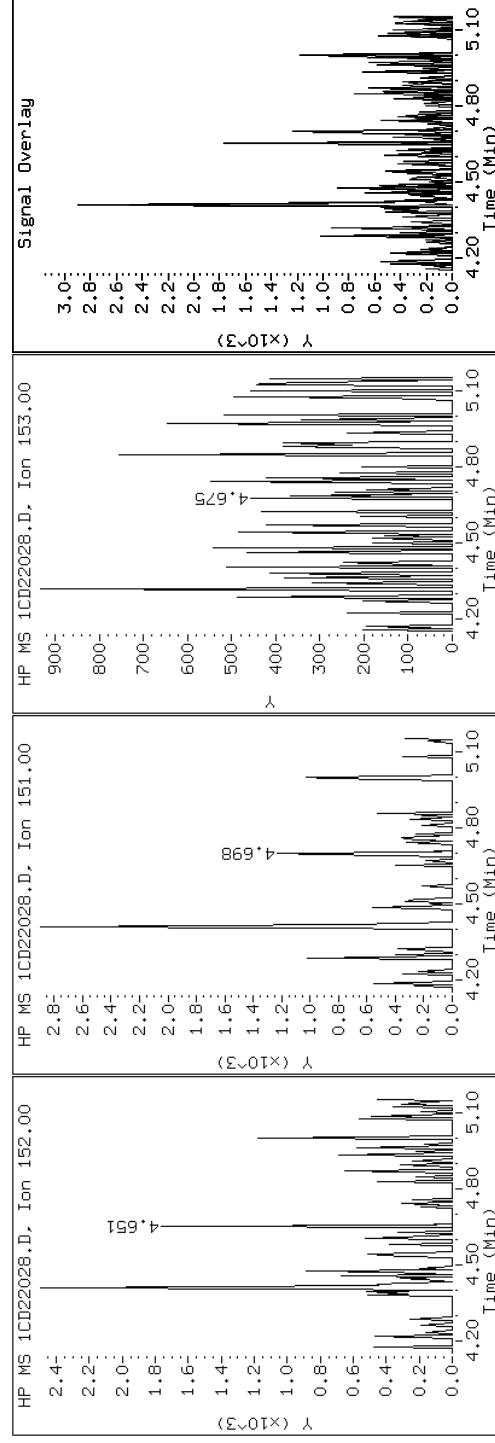
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

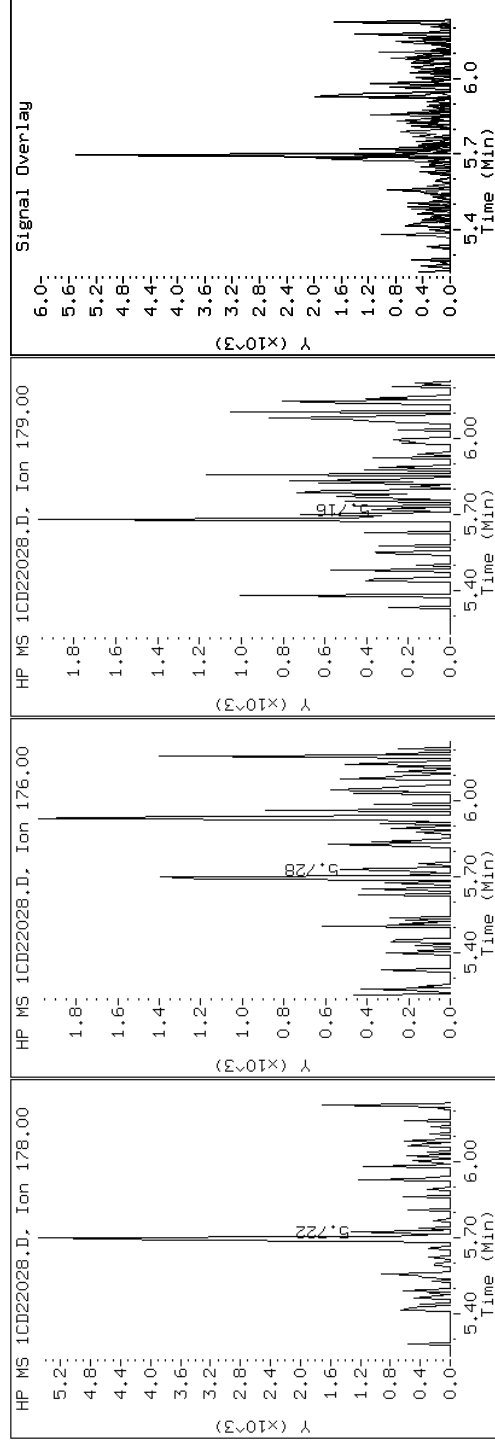
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

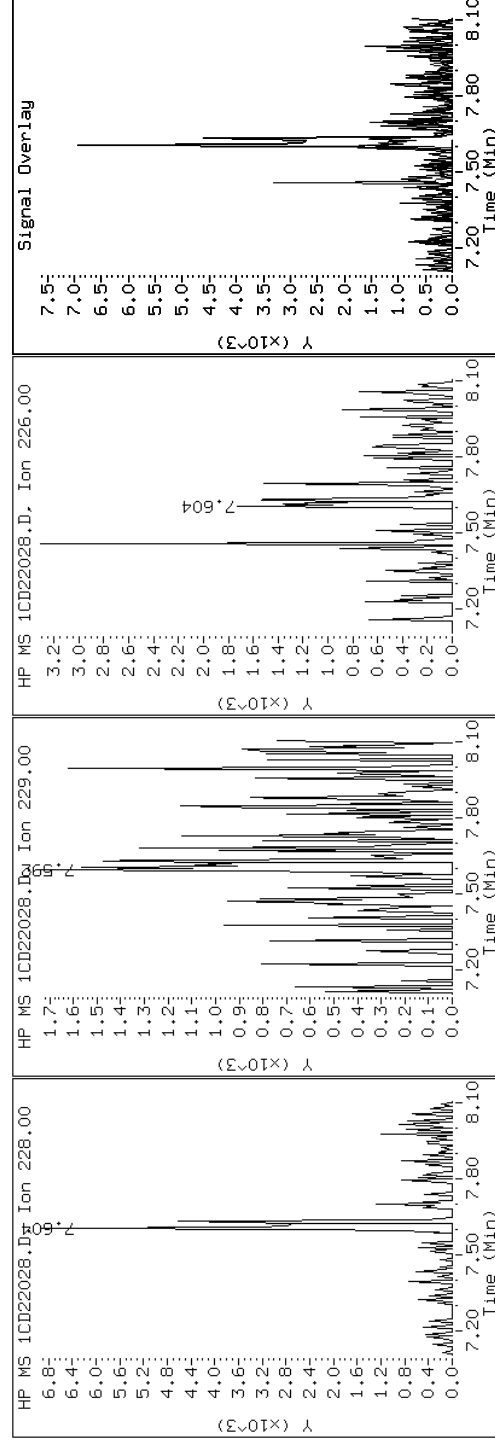
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

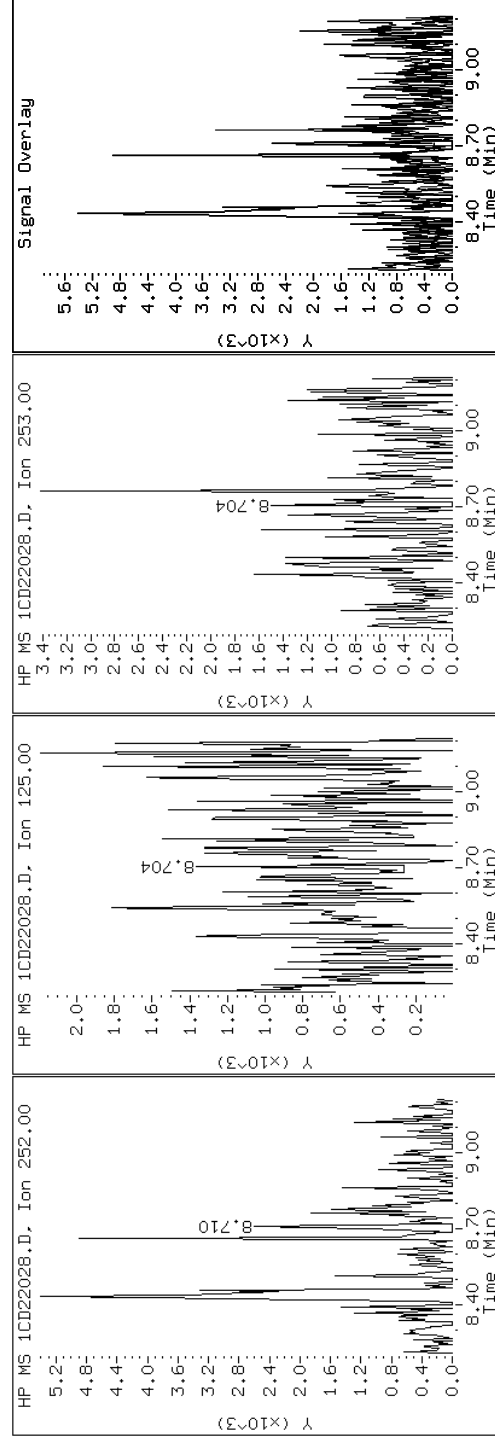
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

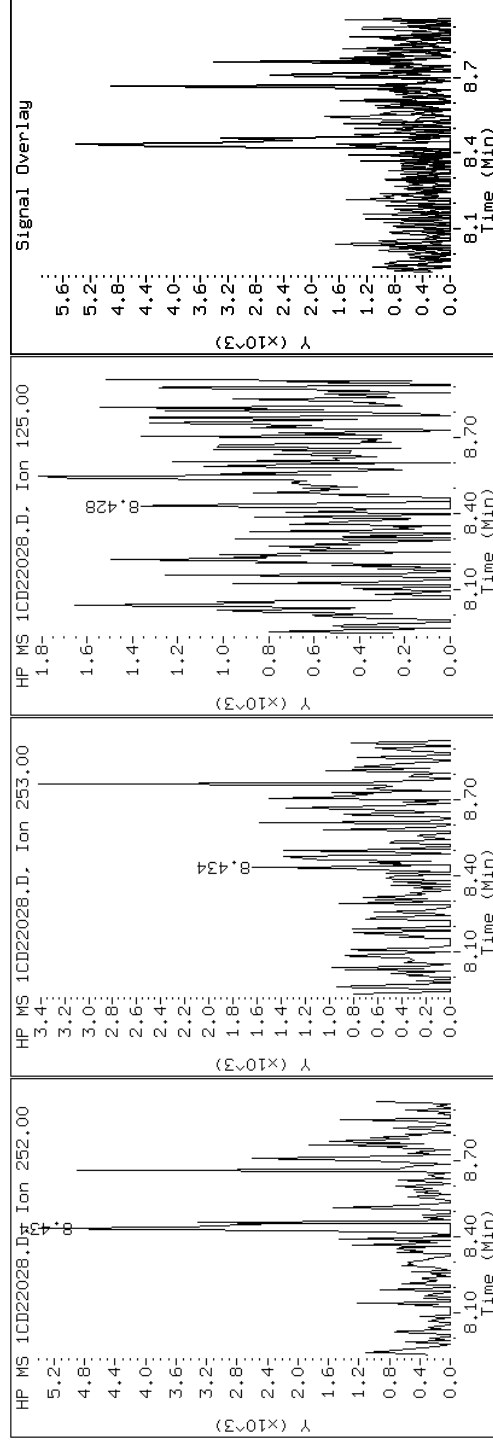
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

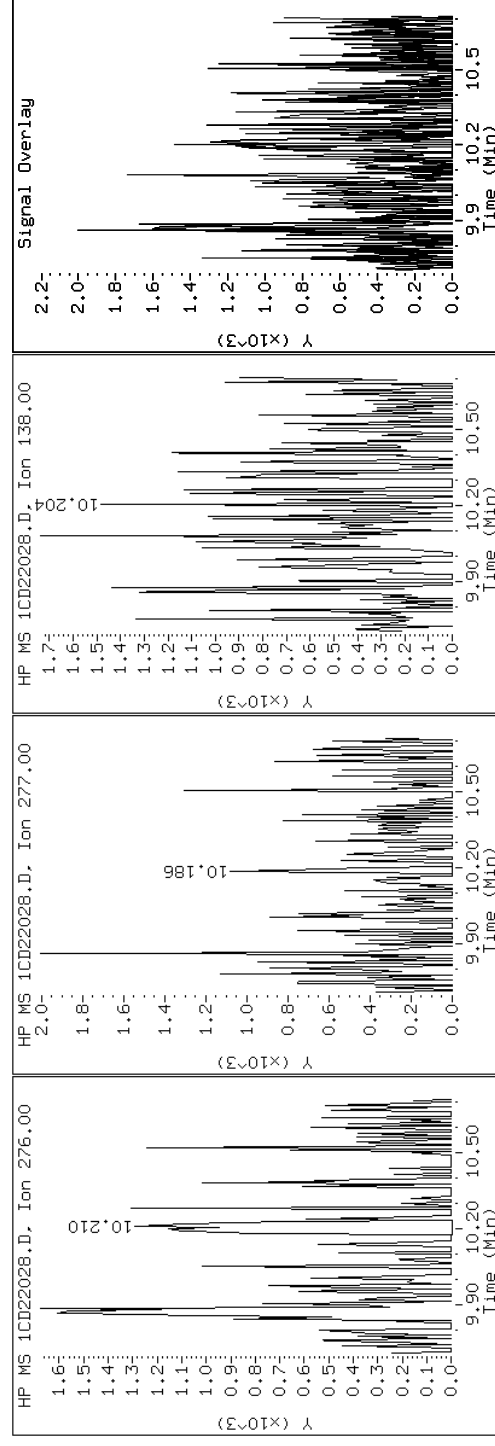
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

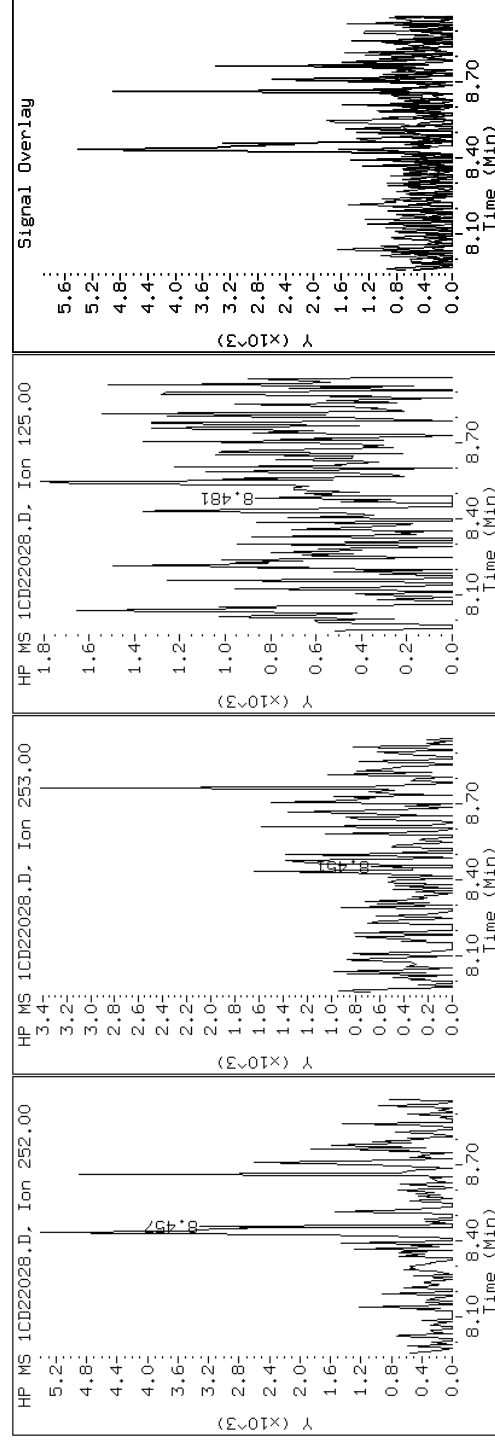
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

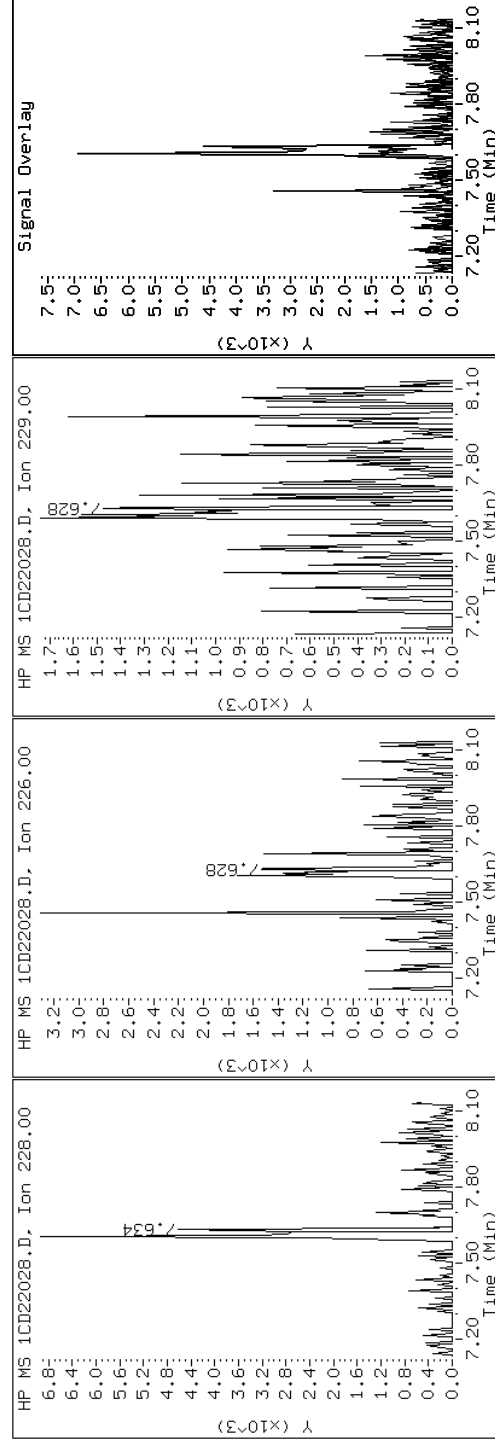
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

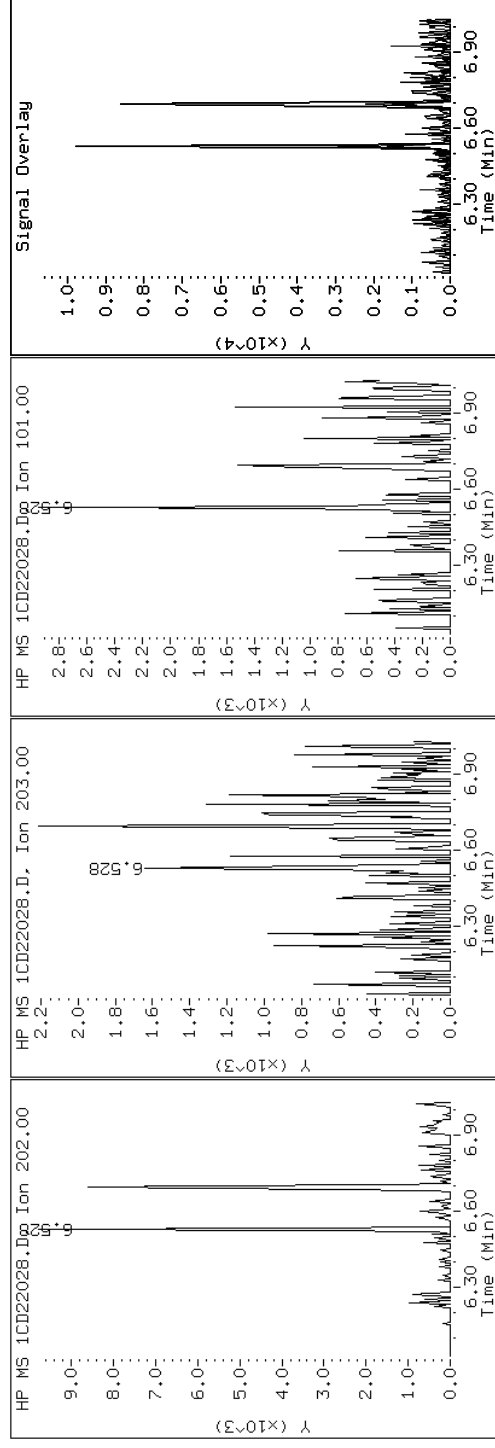
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

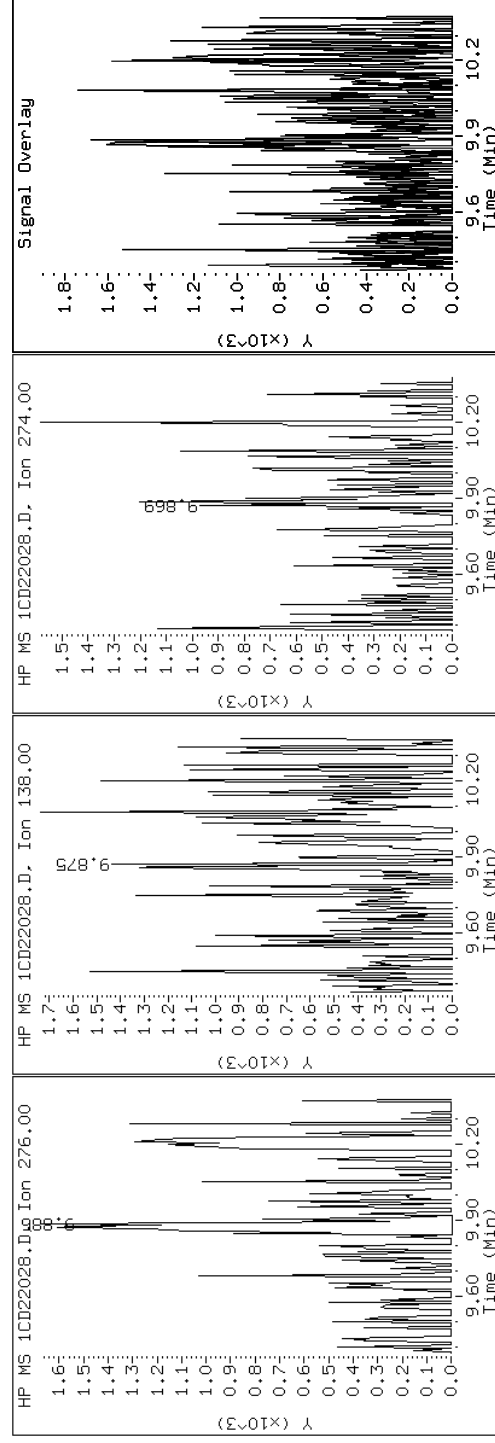
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

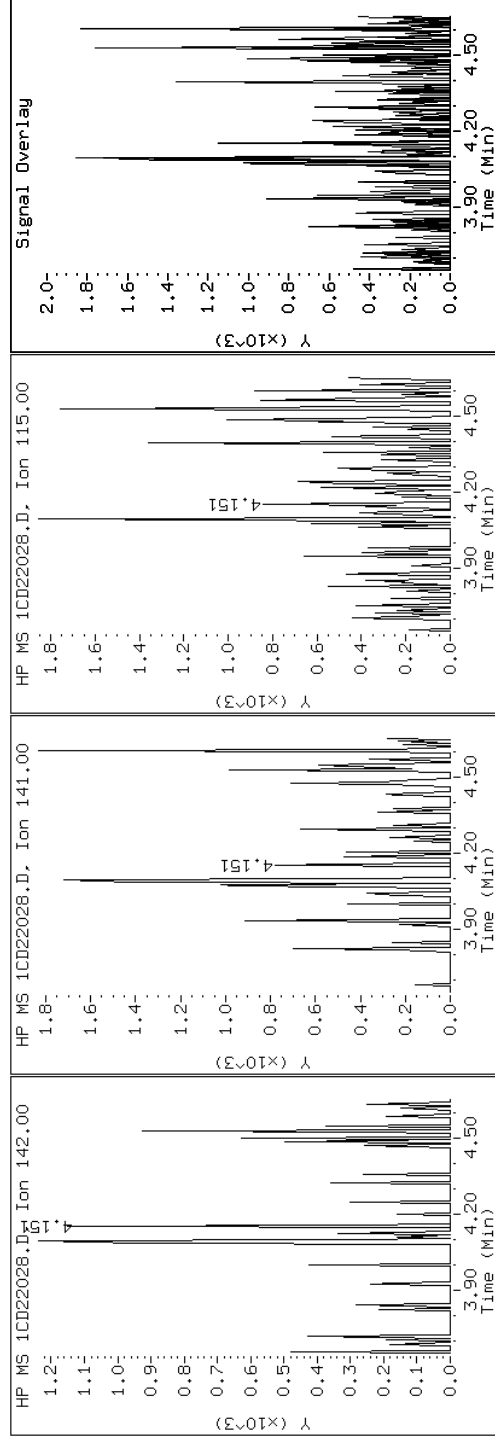
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

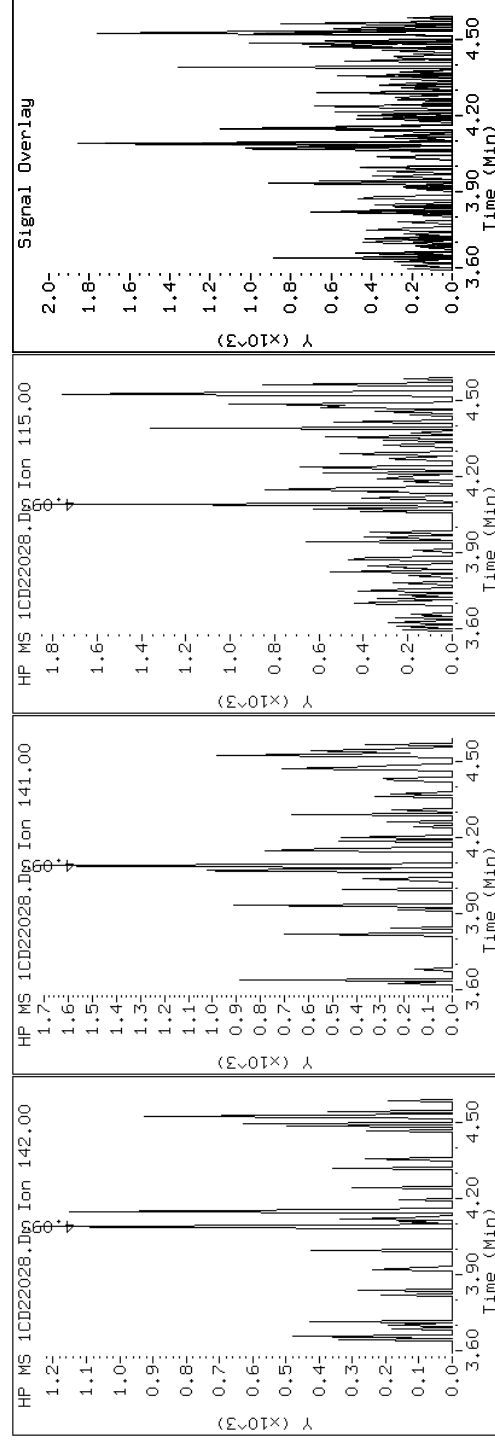
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

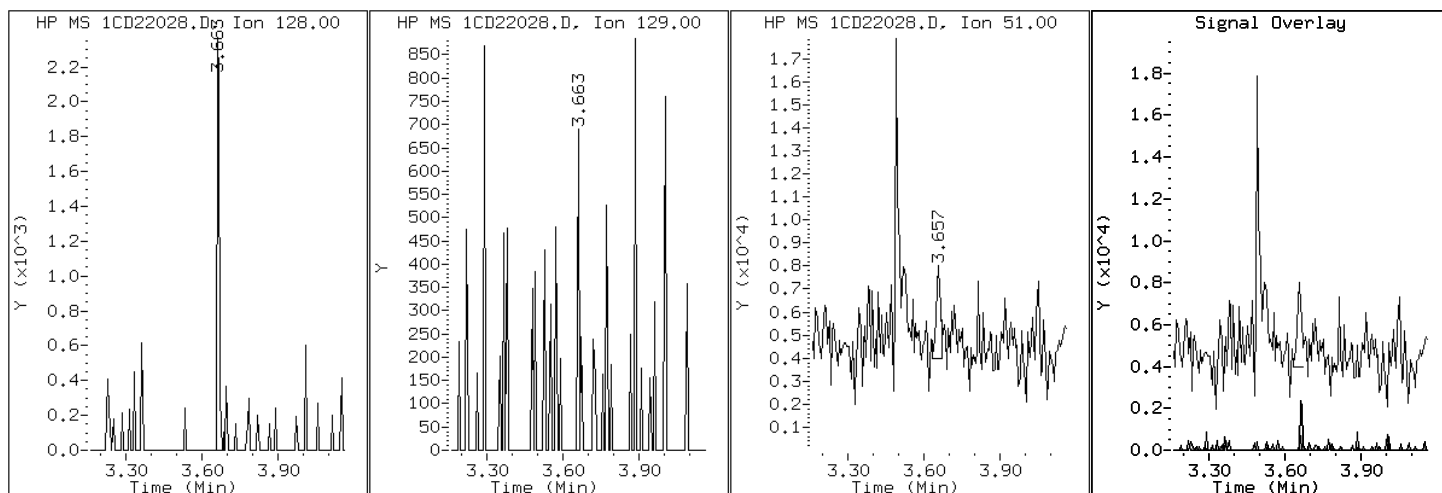
Client ID: FM0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

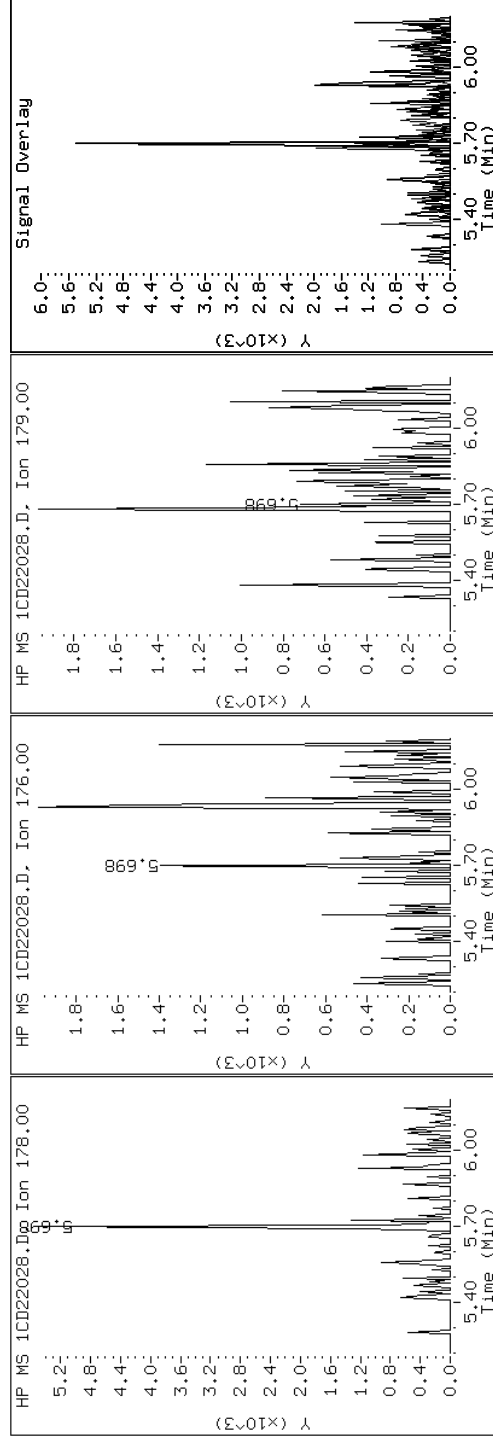
Client ID: FM0013B-CS

Sample Info: 680-89459-a-2-a

11 Phenanthrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22028.D

Date: 22-APR-2013 20:13

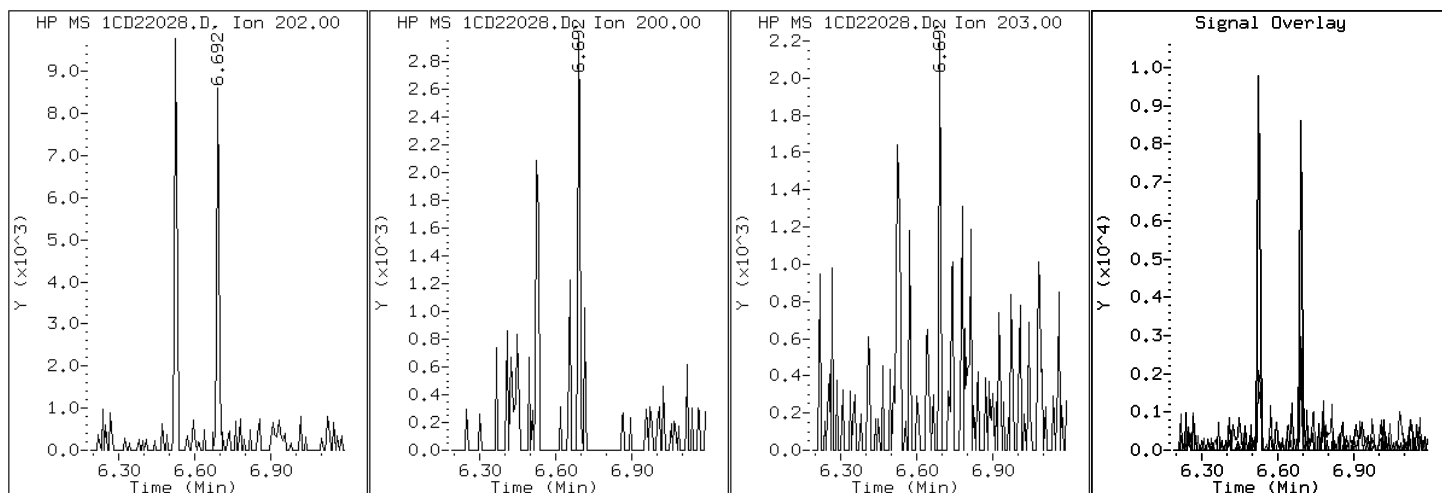
Client ID: FM0013B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-2-a

Operator: SCC

16 Pyrene

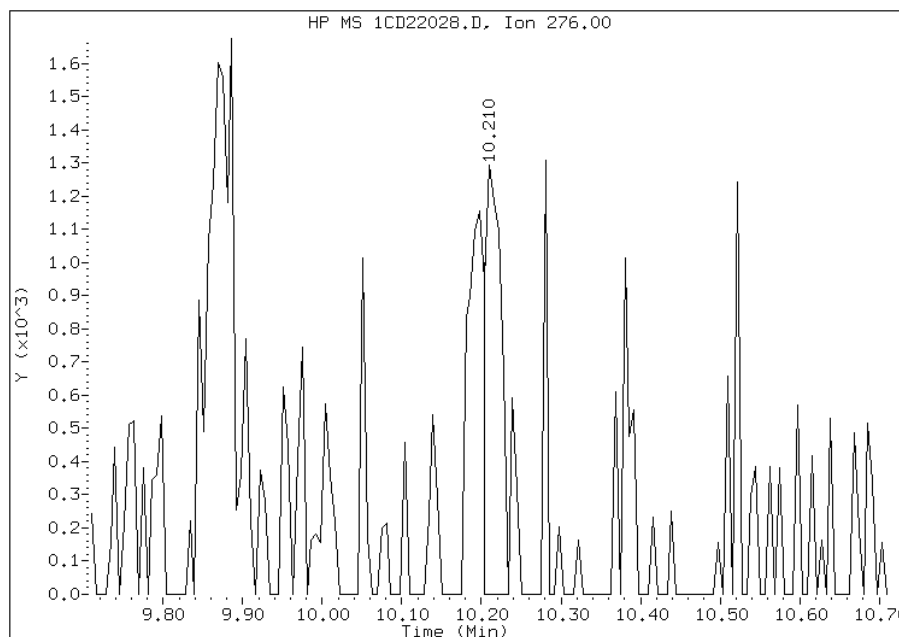


Manual Integration Report

Data File: 1CD22028.D
Inj. Date and Time: 22-APR-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0013B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

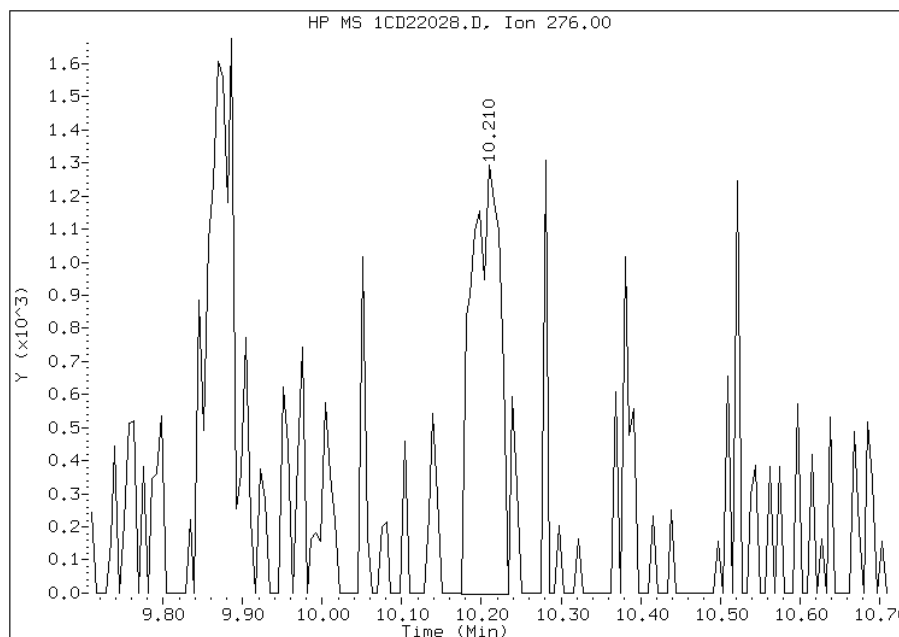
Processing Integration Results

RT: 10.21
Response: 1832
Amount: 0
Conc: 24



Manual Integration Results

RT: 10.21
Response: 3251
Amount: 0
Conc: 43



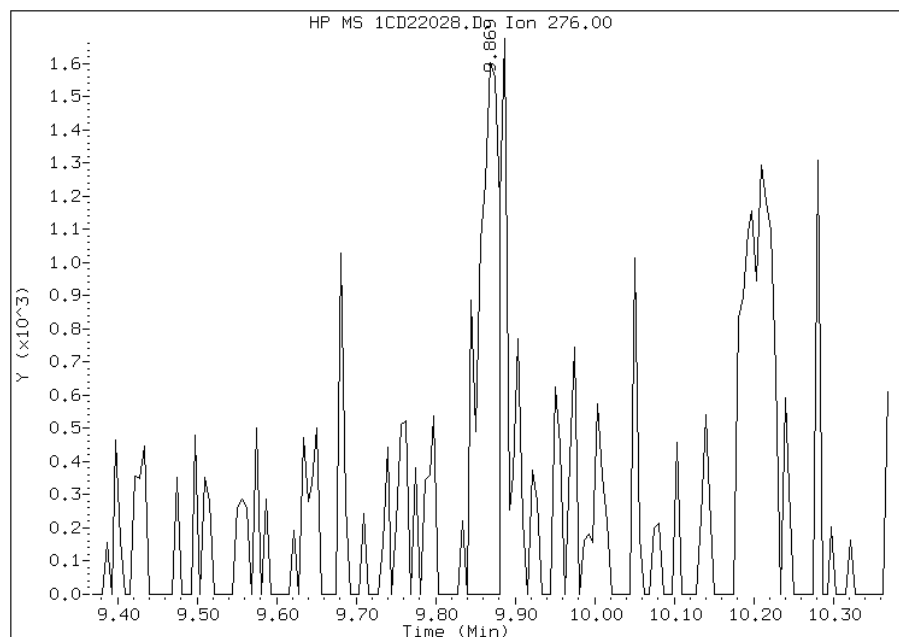
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22028.D
Inj. Date and Time: 22-APR-2013 20:13
Instrument ID: BSMC5973.i
Client ID: FM0013B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

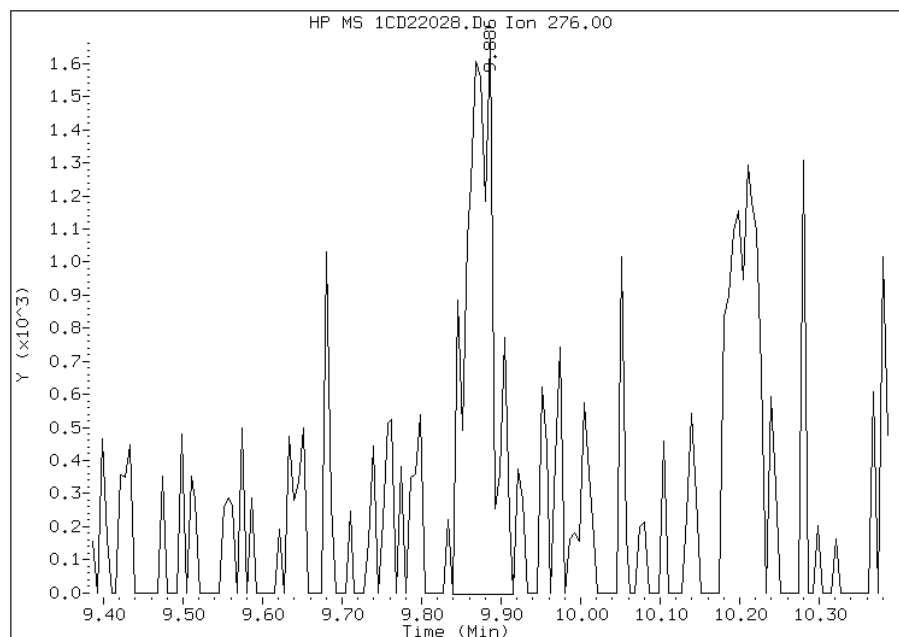
Processing Integration Results

RT: 9.87
Response: 2835
Amount: 1
Conc: 95



Manual Integration Results

RT: 9.89
Response: 4017
Amount: 1
Conc: 110



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:31
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0015A-CS</u>	Lab Sample ID: <u>680-89459-3</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22029.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/22/2013 20:31</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>24.7</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	22	J	53	6.6
120-12-7	Anthracene	52		11	5.6
56-55-3	Benzo[a]anthracene	290		11	5.2
50-32-8	Benzo[a]pyrene	240		14	6.9
205-99-2	Benzo[b]fluoranthene	330		16	8.1
191-24-2	Benzo[g,h,i]perylene	200		27	5.8
207-08-9	Benzo[k]fluoranthene	180		11	4.8
218-01-9	Chrysene	290		12	6.0
53-70-3	Dibenz(a,h)anthracene	100		27	5.4
206-44-0	Fluoranthene	450		27	5.3
86-73-7	Fluorene	19	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	200		27	9.4
90-12-0	1-Methylnaphthalene	190		53	5.8
91-57-6	2-Methylnaphthalene	430		53	9.4
91-20-3	Naphthalene	540		53	5.8
85-01-8	Phenanthrene	260		11	5.2
129-00-0	Pyrene	370		27	4.9

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\1C042213.b\1CD22029.D
Lab Smp Id: 680-89459-A-3-A Client Smp ID: FM0015A-CS
Inj Date : 22-APR-2013 20:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-3-a
Misc Info : 680-89459-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\A-BFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	24.670	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.651	3.651	(1.000)		222322	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		154606	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		275104	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		22769	5.68767	503.3534
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		304969	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		285480	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		36912	6.14206	543.5662
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		18394	4.84918	429.1473
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		8397	2.18742	193.5843
5 Acenaphthylene	152		4.651	4.651	(0.981)		1624	0.24789	21.9382
9 Fluorene	166		5.080	5.080	(1.072)		1091	0.21715	19.2175(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		24125	2.99278	264.8582
12 Anthracene	178		5.727	5.733	(1.008)		4683	0.58636	51.8922
13 Carbazole	167		5.839	5.839	(1.028)		5343	0.71831	63.5697

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.527	6.527	(1.149)	45047	5.04760	446.7080
16 Pyrene	202	6.692	6.692	(0.879)	35868	4.13414	365.8673
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	27917	3.23716	286.4852
19 Chrysene	228	7.633	7.633	(1.002)	28199	3.30539	292.5238
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	27012	3.74621	331.5355
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	16978	2.08087	184.1553
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	19809	2.65772	235.2056
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	12319	2.30306	203.8182(M)
25 Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	5242	1.16410	103.0213
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	15828	2.26565	200.5074(M)

QC Flag Legend

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

Data File: 1CD22029.D

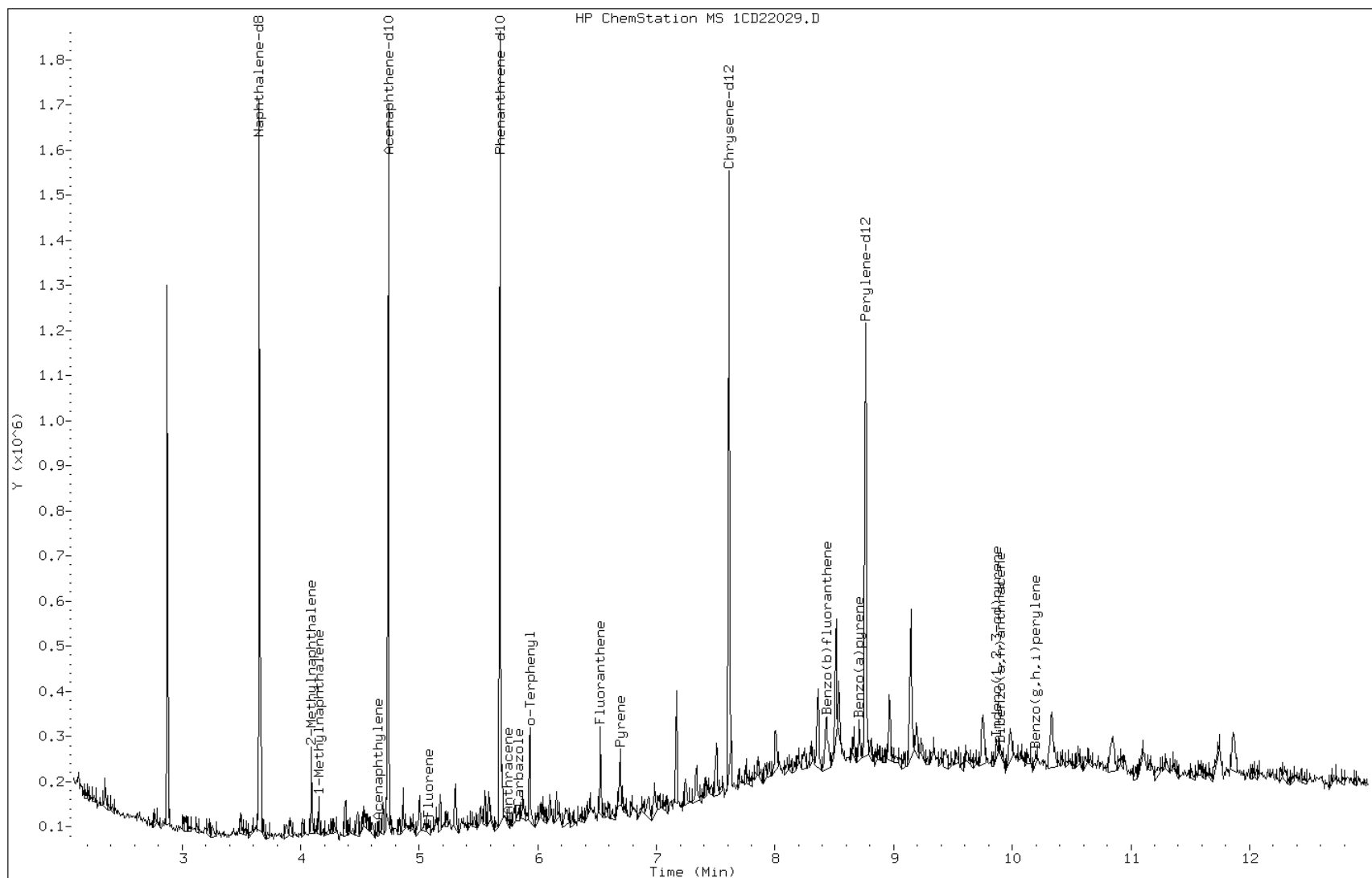
Date: 22-APR-2013 20:31

Client ID: FM0015A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-3-a

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

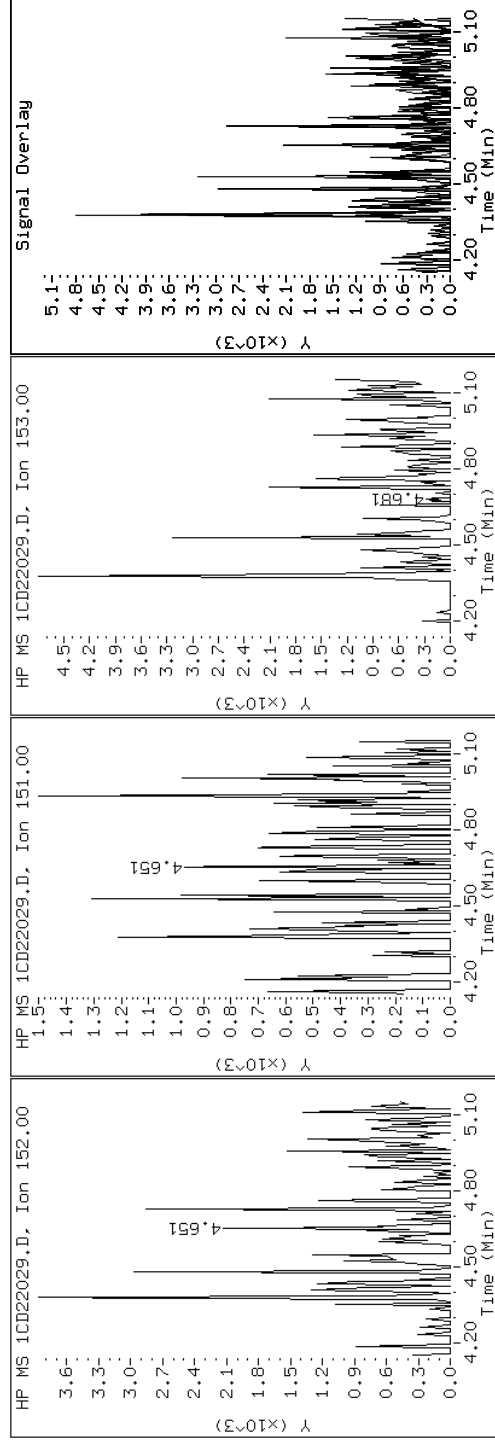
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

5 Acenaphthylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

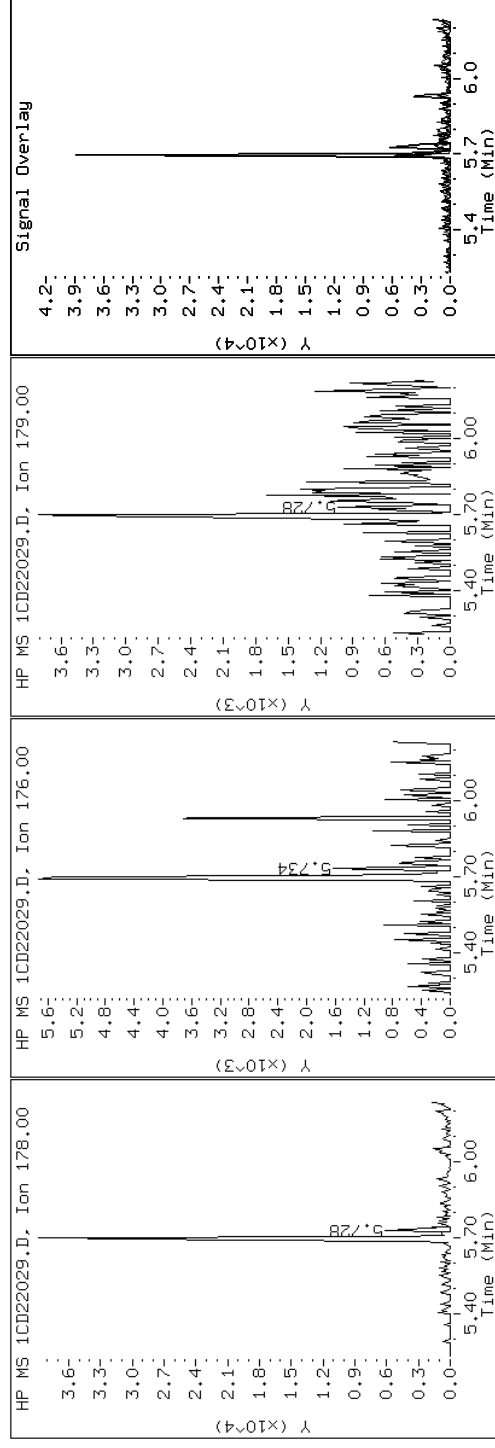
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

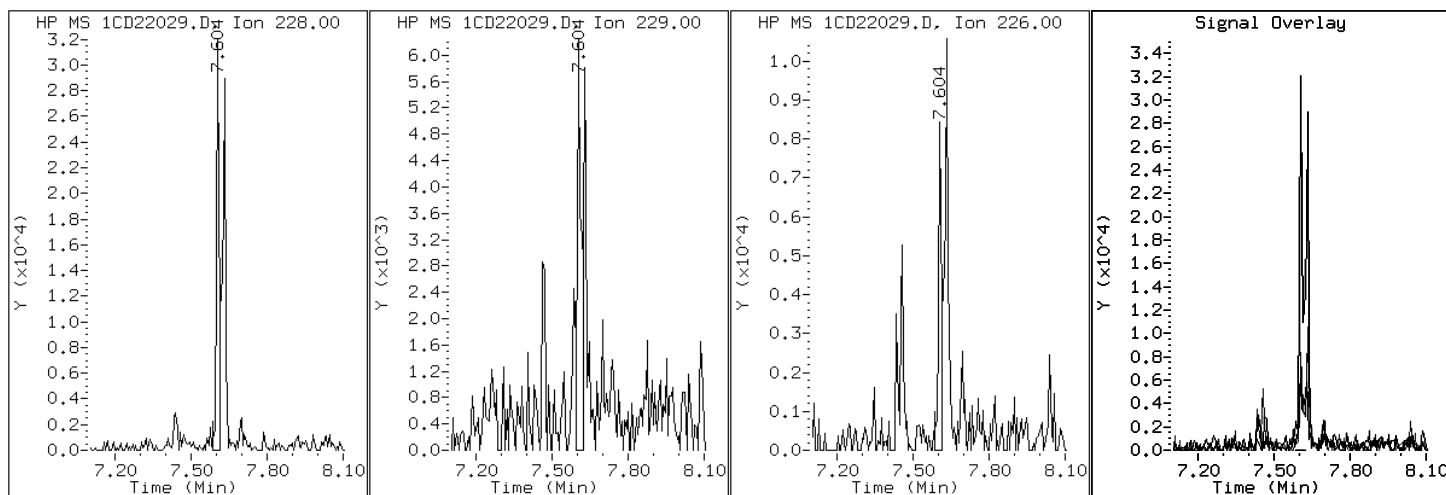
Client ID: FM0015A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

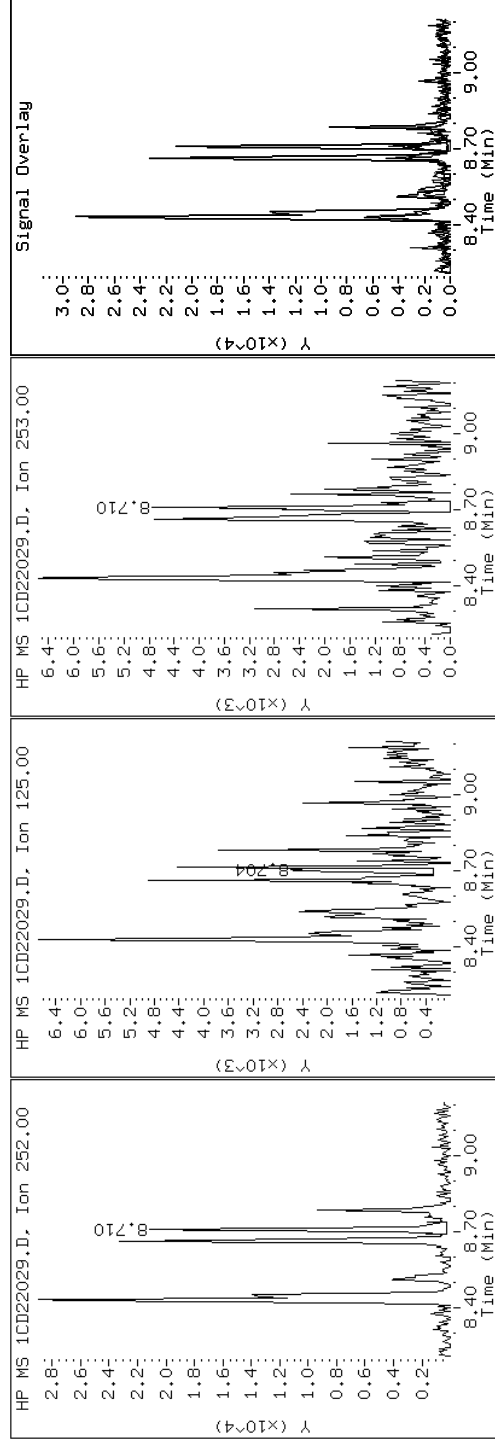
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

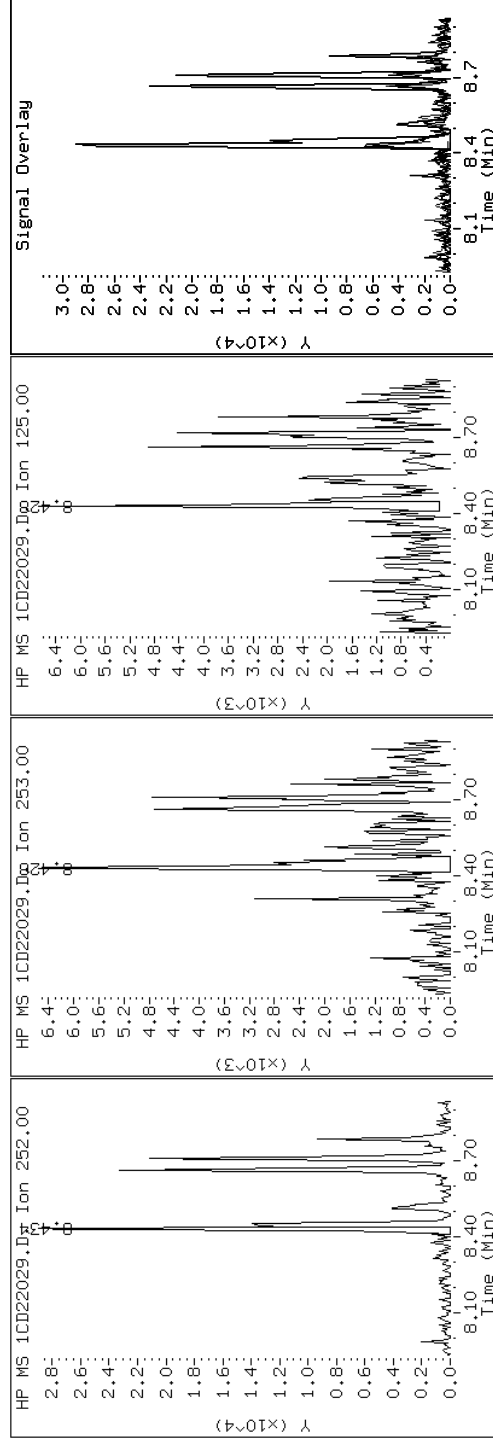
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

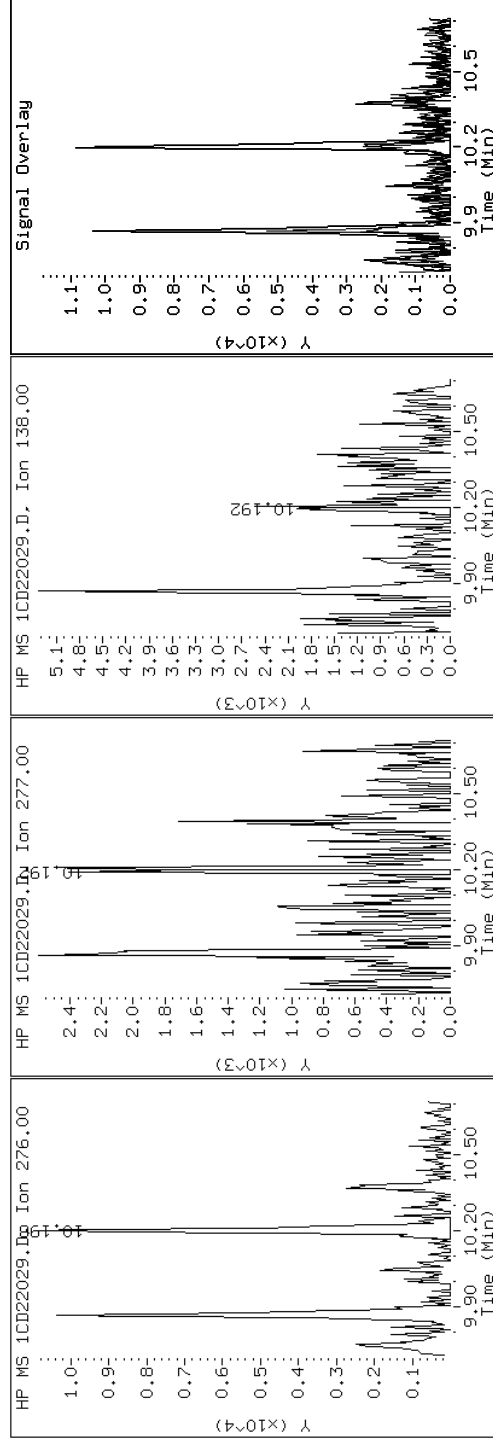
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

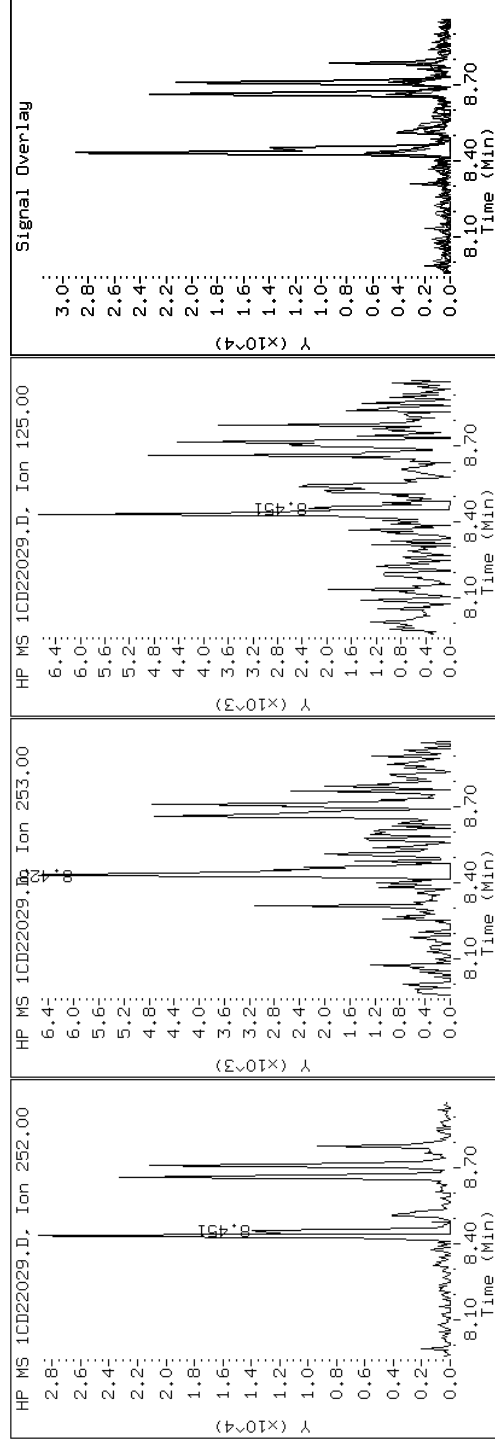
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

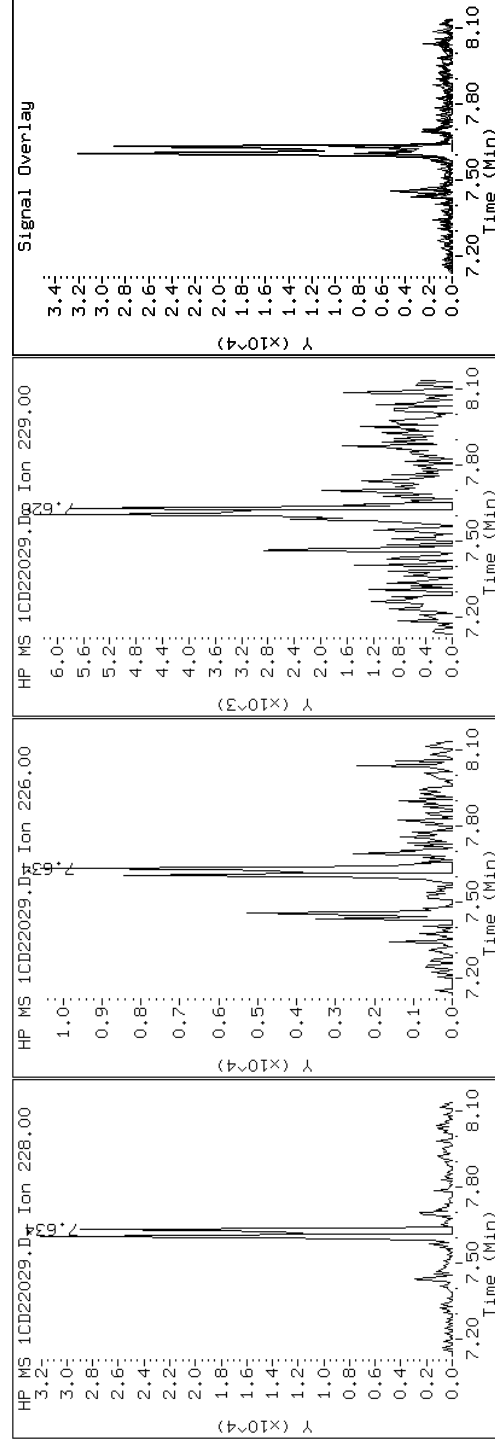
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

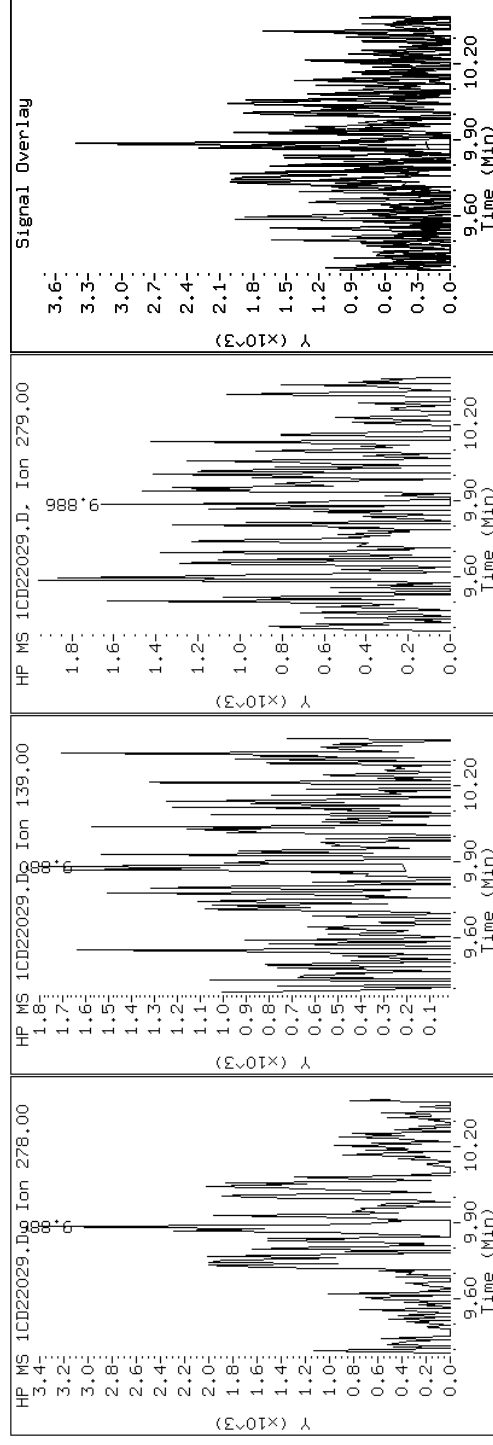
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

Instrument: BSMC5973.i

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

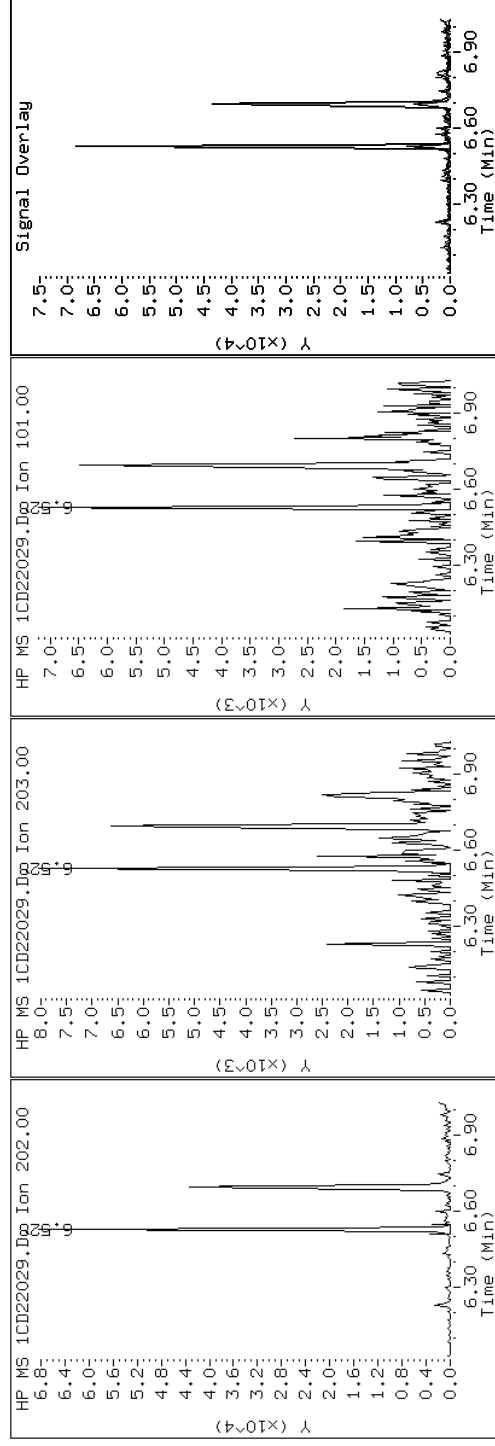
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

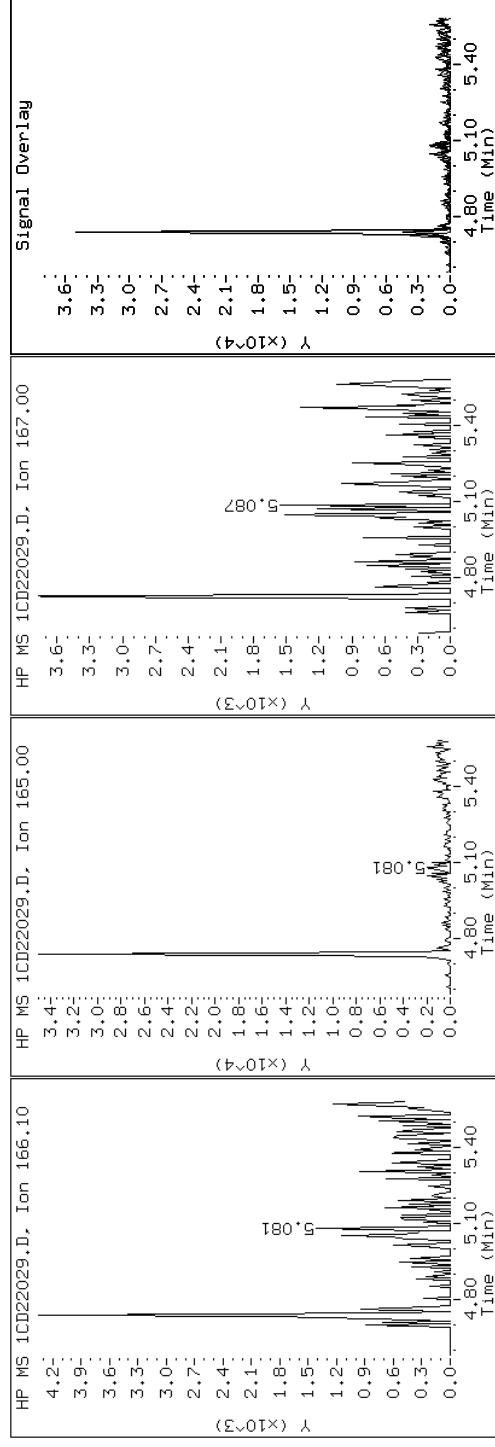
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

9 Fluorene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

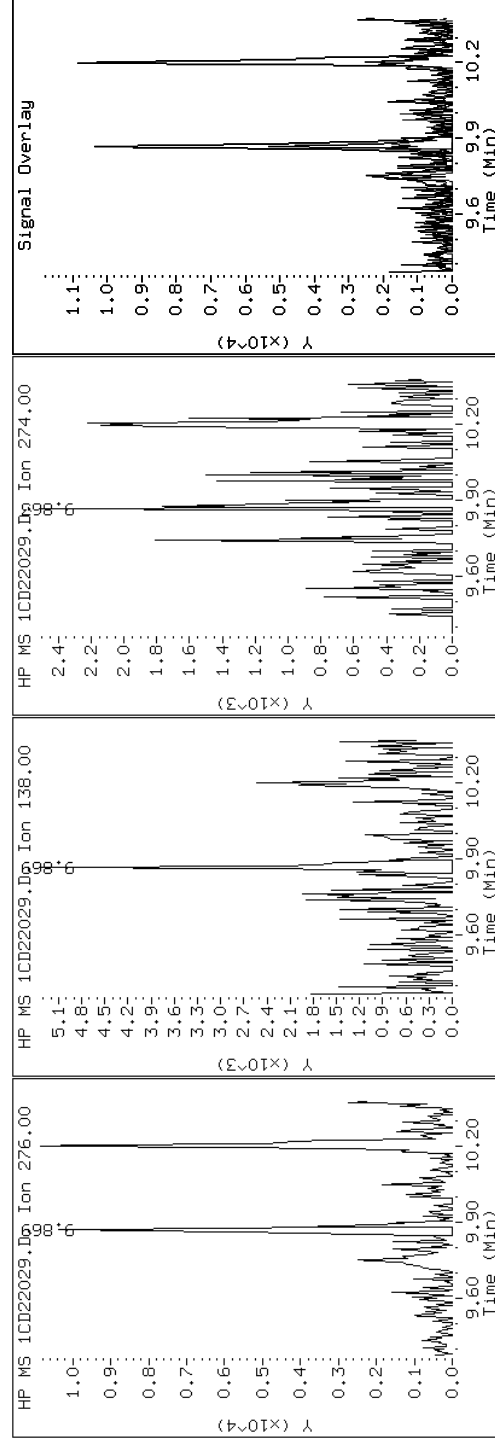
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

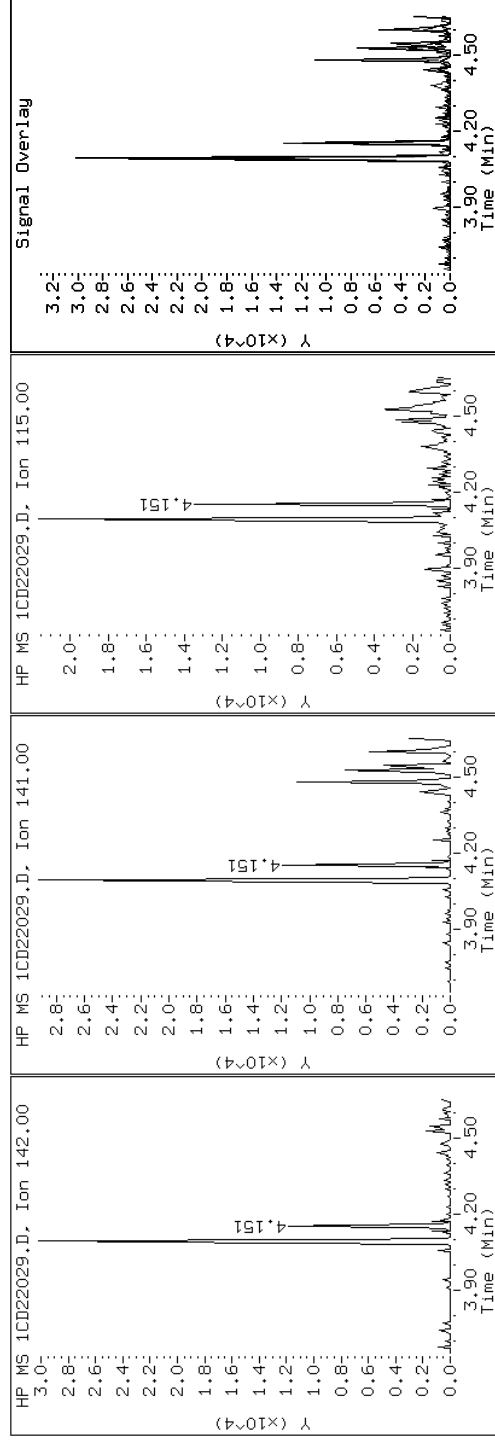
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

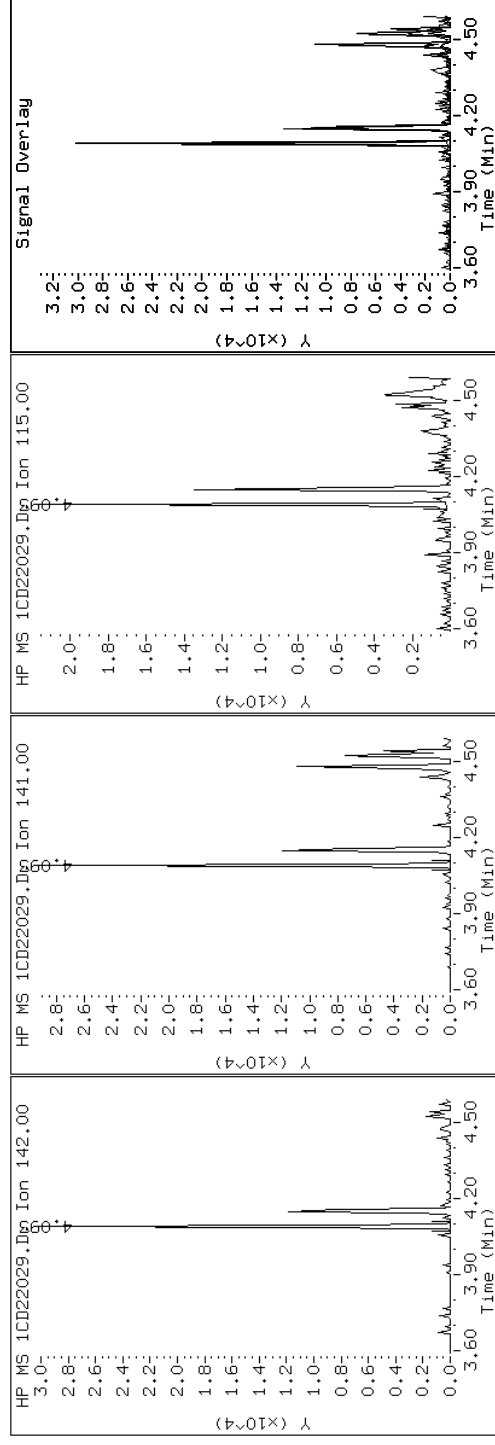
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

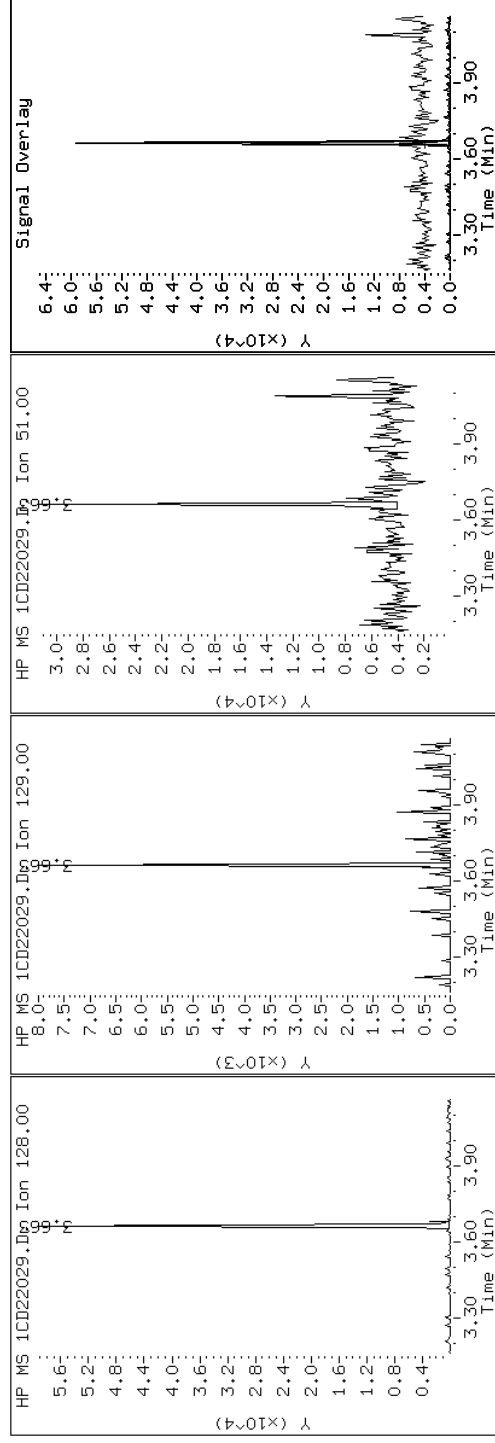
Client ID: FM0015A-CS

Sample Info: 680-89459-a-3-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

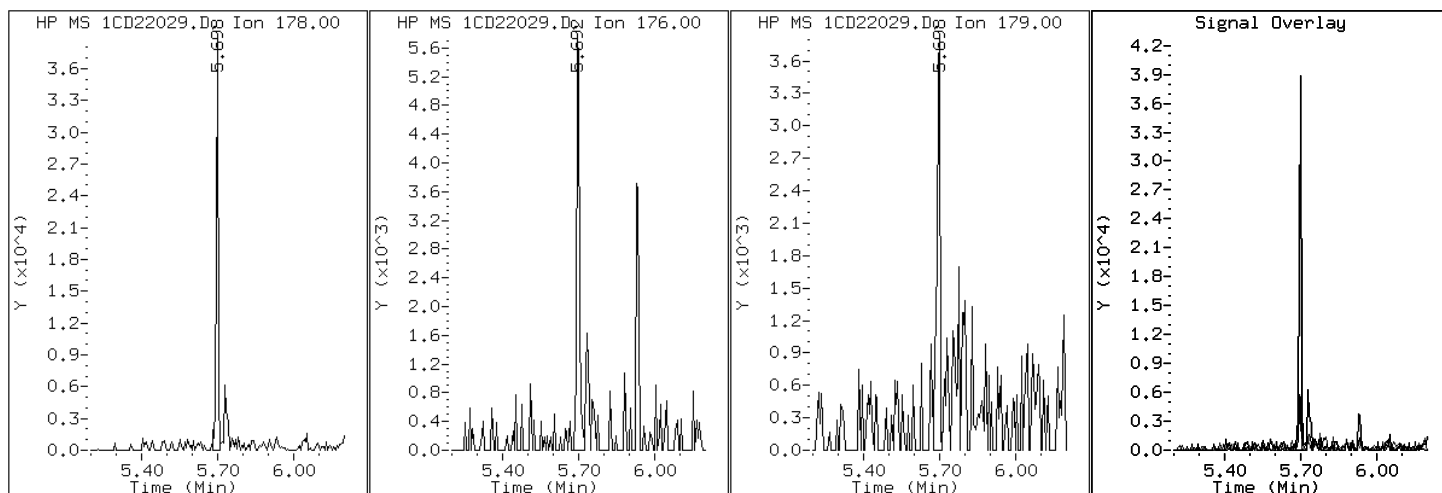
Client ID: FM0015A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1CD22029.D

Date: 22-APR-2013 20:31

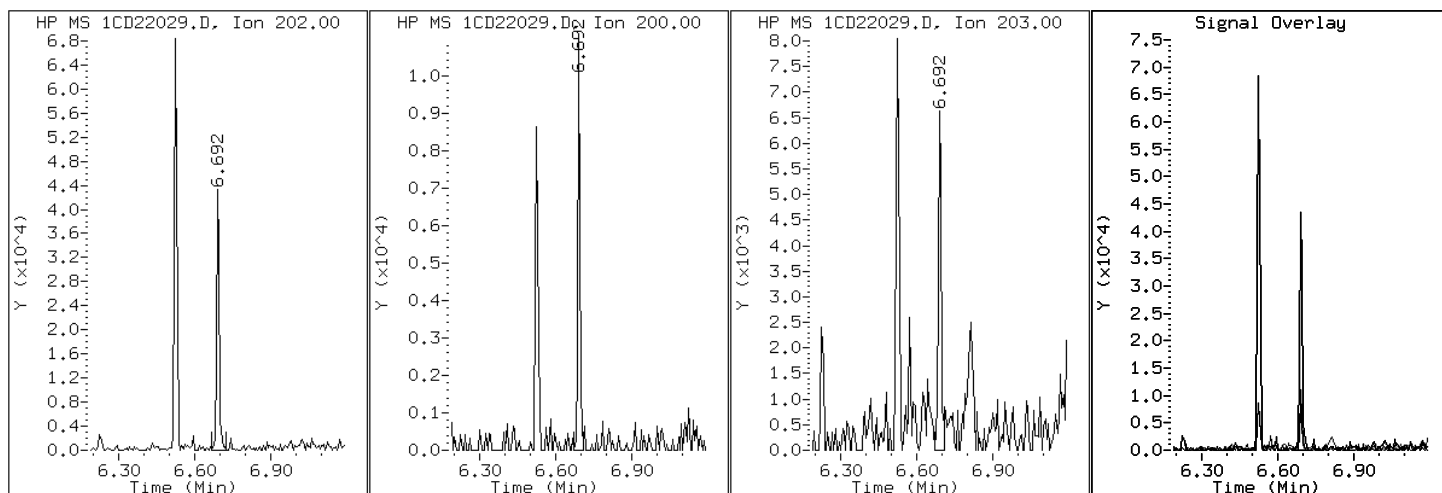
Client ID: FM0015A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-3-a

Operator: SCC

16 Pyrene

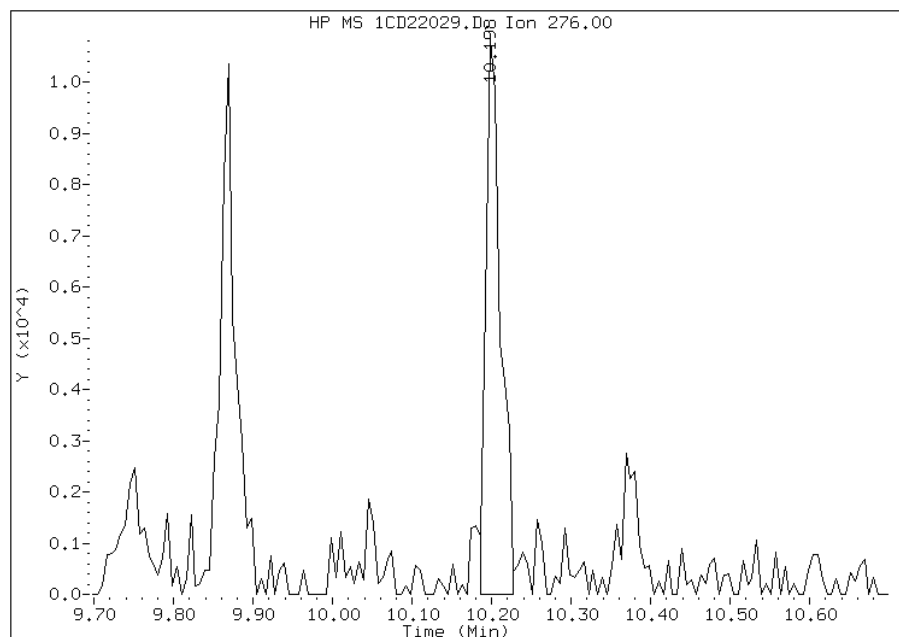


Manual Integration Report

Data File: 1CD22029.D
Inj. Date and Time: 22-APR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: FM0015A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

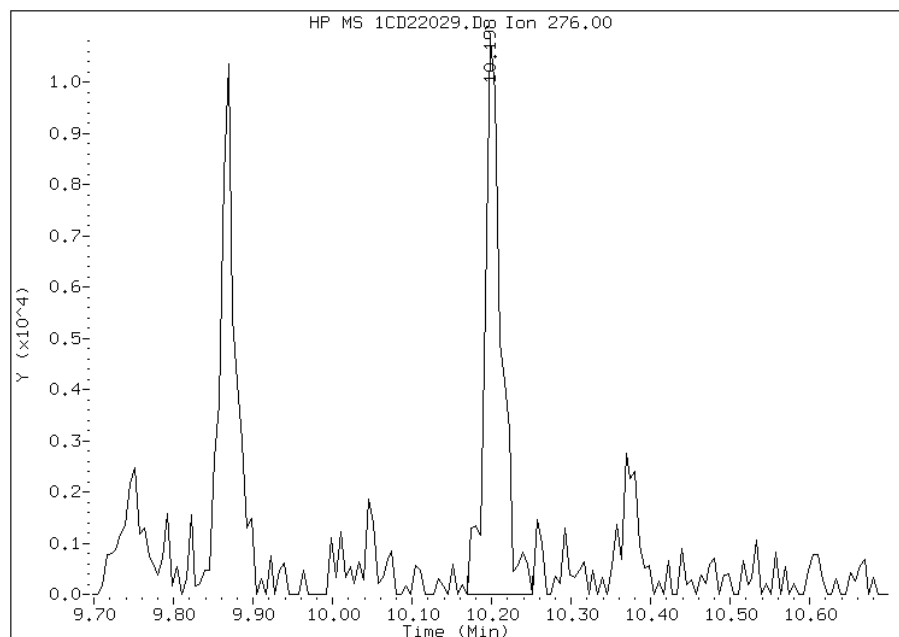
Processing Integration Results

RT: 10.20
Response: 14213
Amount: 2
Conc: 180



Manual Integration Results

RT: 10.20
Response: 15828
Amount: 2
Conc: 201



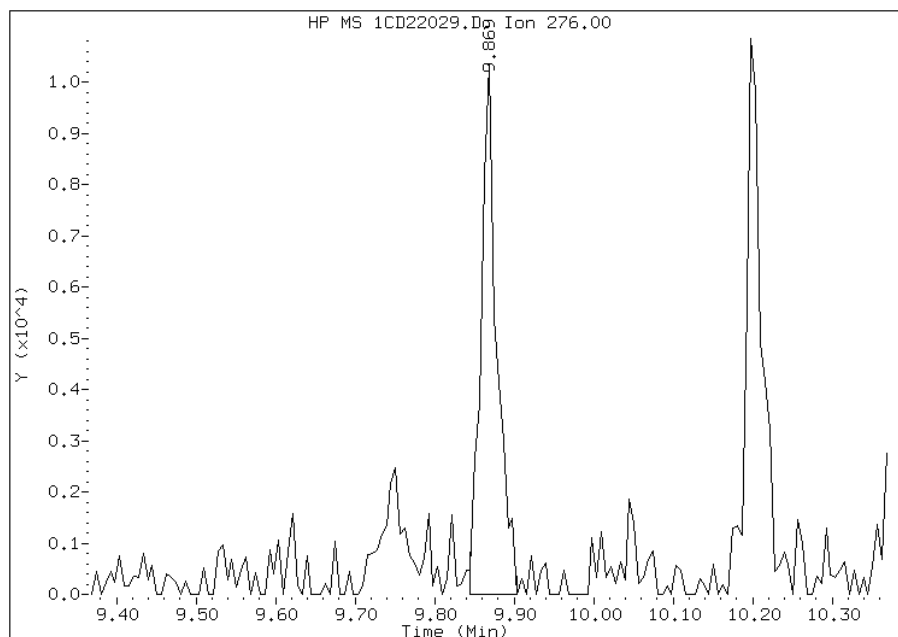
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22029.D
Inj. Date and Time: 22-APR-2013 20:31
Instrument ID: BSMC5973.i
Client ID: FM0015A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

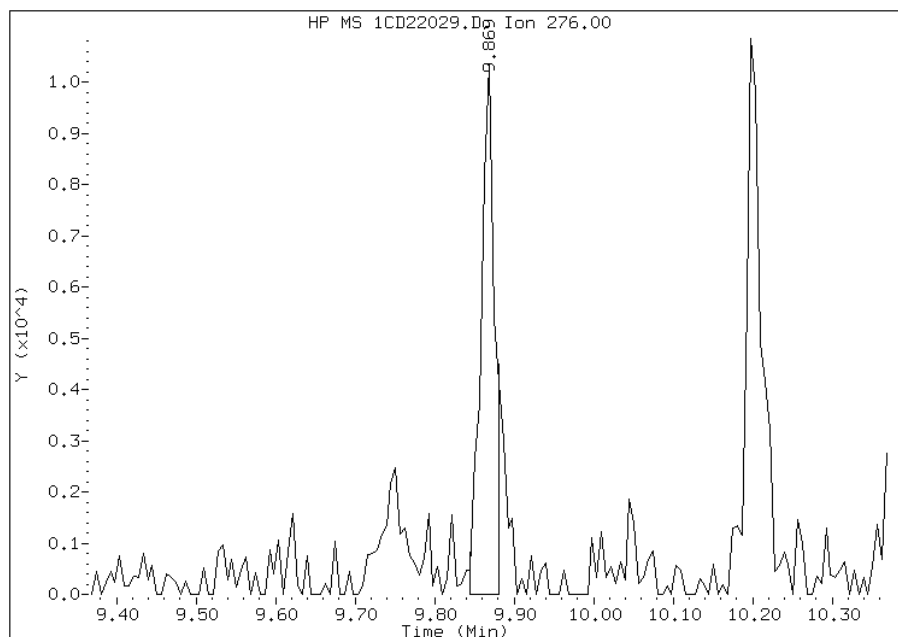
Processing Integration Results

RT: 9.87
Response: 14350
Amount: 3
Conc: 228



Manual Integration Results

RT: 9.87
Response: 12319
Amount: 2
Conc: 204



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0015B-CS</u>	Lab Sample ID: <u>680-89459-4</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22030.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.97(g)</u>	Date Analyzed: <u>04/22/2013 20:50</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>21.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</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	10	J	51	6.4
120-12-7	Anthracene	14		11	5.4
56-55-3	Benzo[a]anthracene	86		10	5.0
50-32-8	Benzo[a]pyrene	84		13	6.7
205-99-2	Benzo[b]fluoranthene	160		16	7.8
191-24-2	Benzo[g,h,i]perylene	78		26	5.6
207-08-9	Benzo[k]fluoranthene	92		10	4.6
218-01-9	Chrysene	110		12	5.8
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.3
206-44-0	Fluoranthene	150		26	5.1
86-73-7	Fluorene	11	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		26	9.1
90-12-0	1-Methylnaphthalene	47	J	51	5.6
91-57-6	2-Methylnaphthalene	97		51	9.1
91-20-3	Naphthalene	67		51	5.6
85-01-8	Phenanthrene	77		10	5.0
129-00-0	Pyrene	110		26	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22030.D
Lab Smp Id: 680-89459-A-4-A Client Smp ID: FM0015B-CS
Inj Date : 22-APR-2013 20:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-4-a
Misc Info : 680-89459-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.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	14.970	Weight Extracted
M	21.789	% 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		3.651	3.651	(1.000)		208275	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		151542	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		278525	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		30762	7.35928	628.5580
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		311994	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		276013	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		4415	0.78419	66.9780(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		3270	1.14117	97.4676
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		1992	0.55391	47.3099
5 Acenaphthylene	152		4.651	4.651	(0.981)		772	0.12022	10.2682
9 Fluorene	166		5.080	5.080	(1.072)		618	0.12549	10.7183(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		7318	0.90175	77.0184
12 Anthracene	178		5.733	5.733	(1.009)		1281	0.15842	13.5310(Q)
13 Carbazole	167		5.839	5.839	(1.028)		2413	0.32042	27.3670(Q)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.527	6.527	(1.149)	15642	1.73119	147.8613
16 Pyrene	202	6.692	6.692	(0.879)	11056	1.24562	106.3887
17 Benzo(a)anthracene	228	7.603	7.603	(0.998)	8832	1.00107	85.5015
19 Chrysene	228	7.633	7.633	(1.002)	10947	1.25428	107.1282
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	12893	1.84942	157.9593(M)
21 Benzo(k)fluoranthene	252	8.439	8.456	(0.963)	8541	1.08272	92.4750(QM)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	7076	0.98193	83.8669
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	4422	1.25708	107.3671(Q)
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	6157	0.91155	77.8559(M)

QC Flag Legend

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

Data File: 1CD22030.D

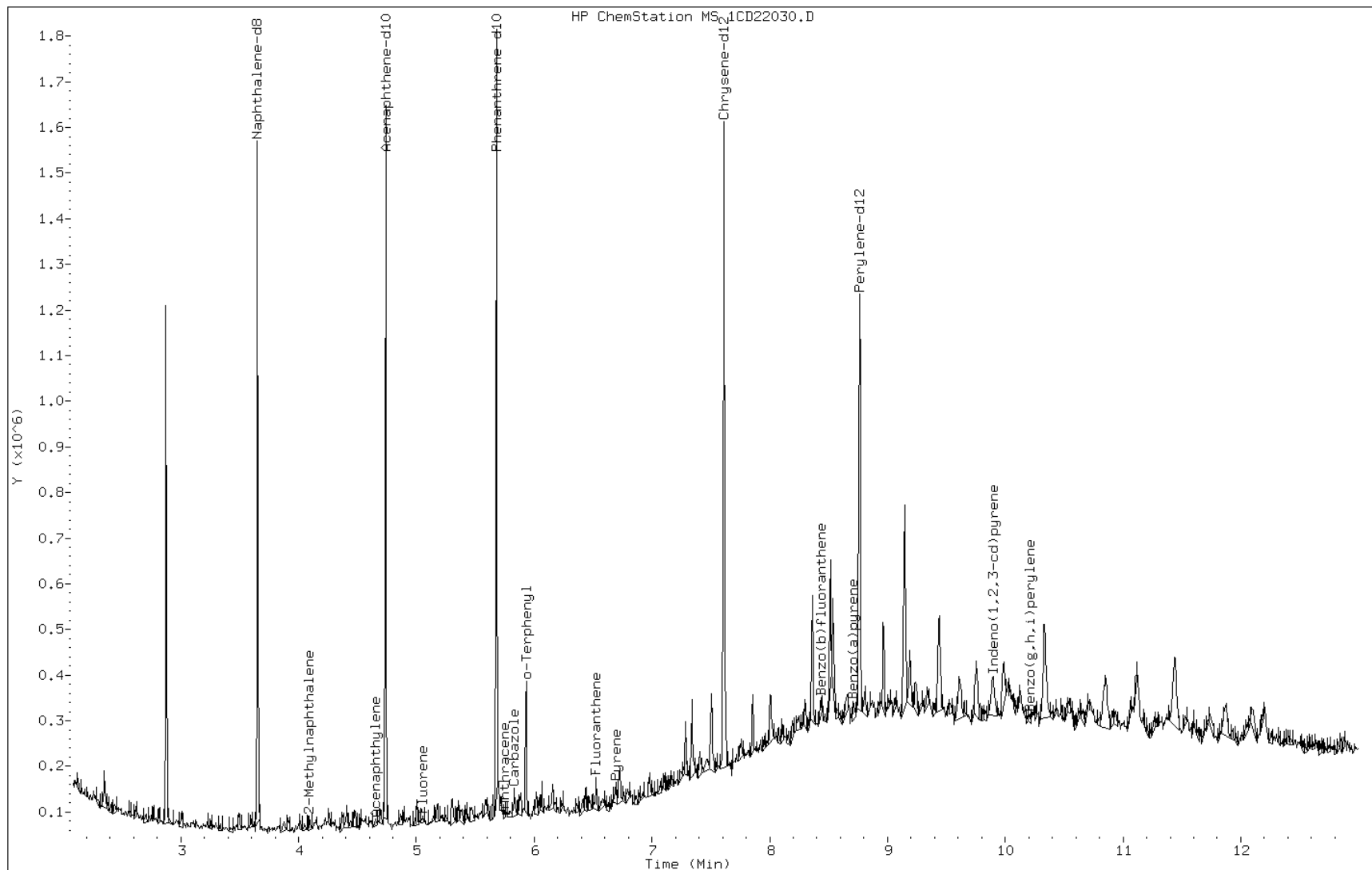
Date: 22-APR-2013 20:50

Client ID: FM0015B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-4-a

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

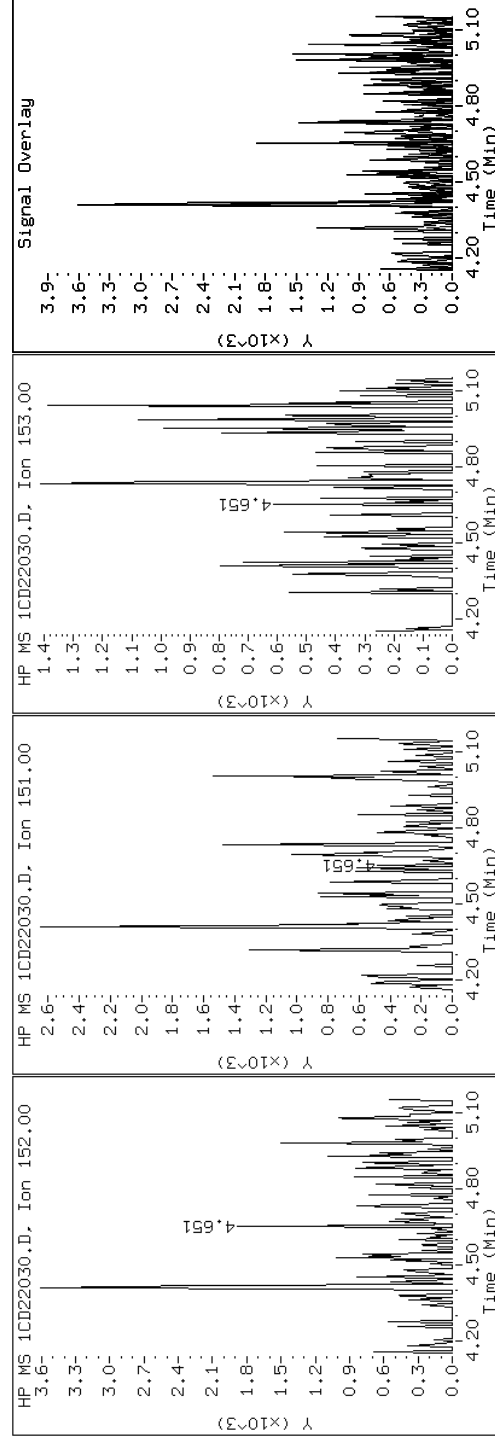
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

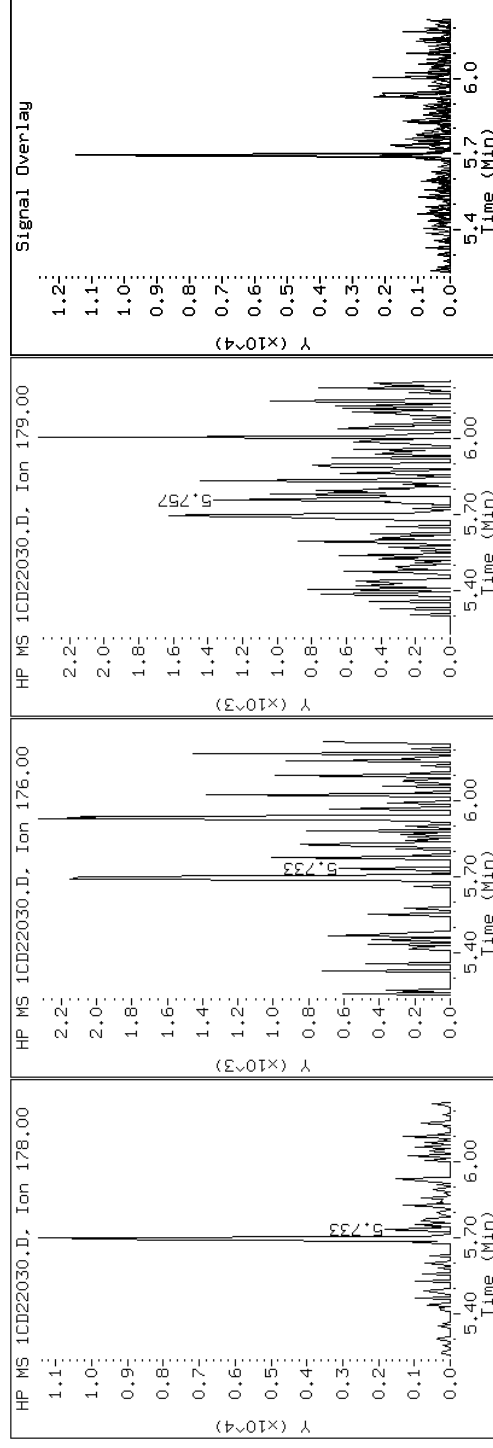
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

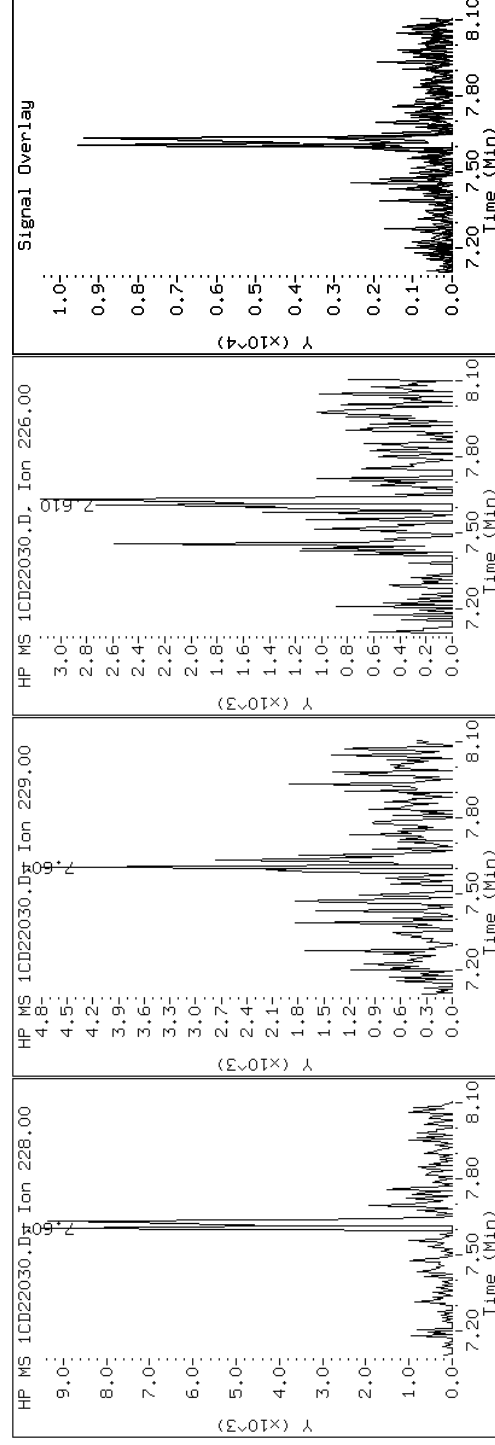
Client ID: FM0015B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

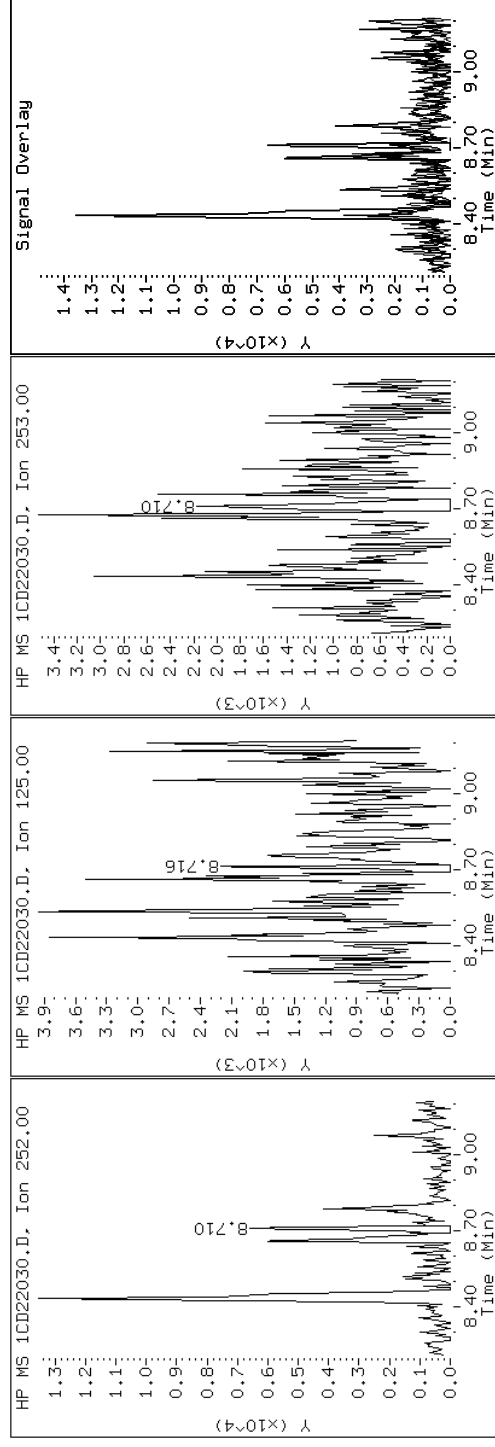
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

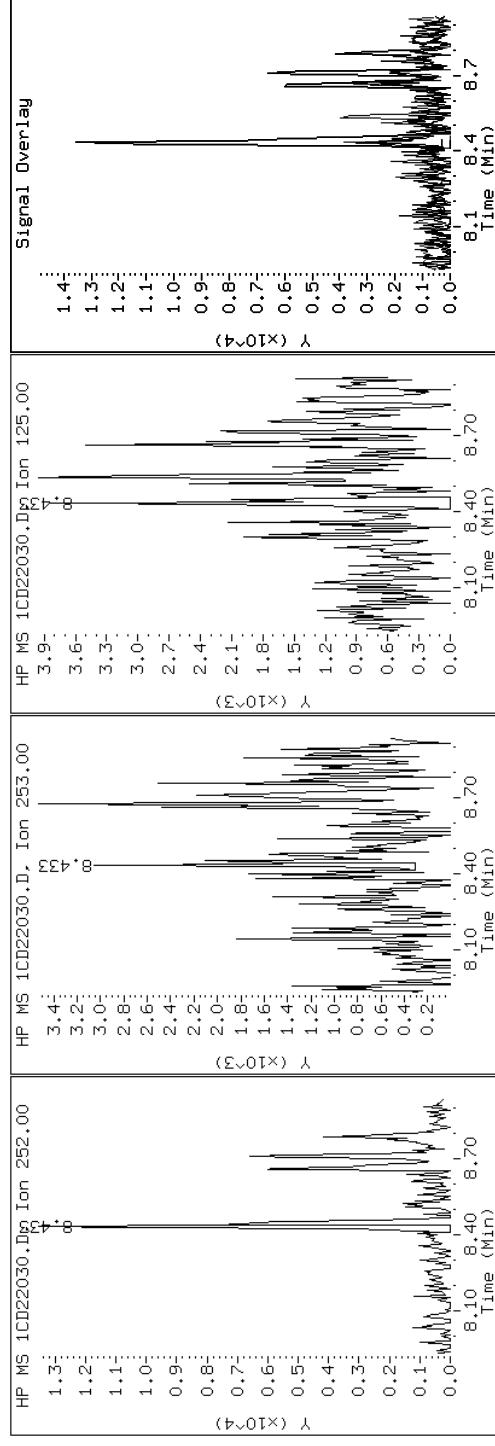
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

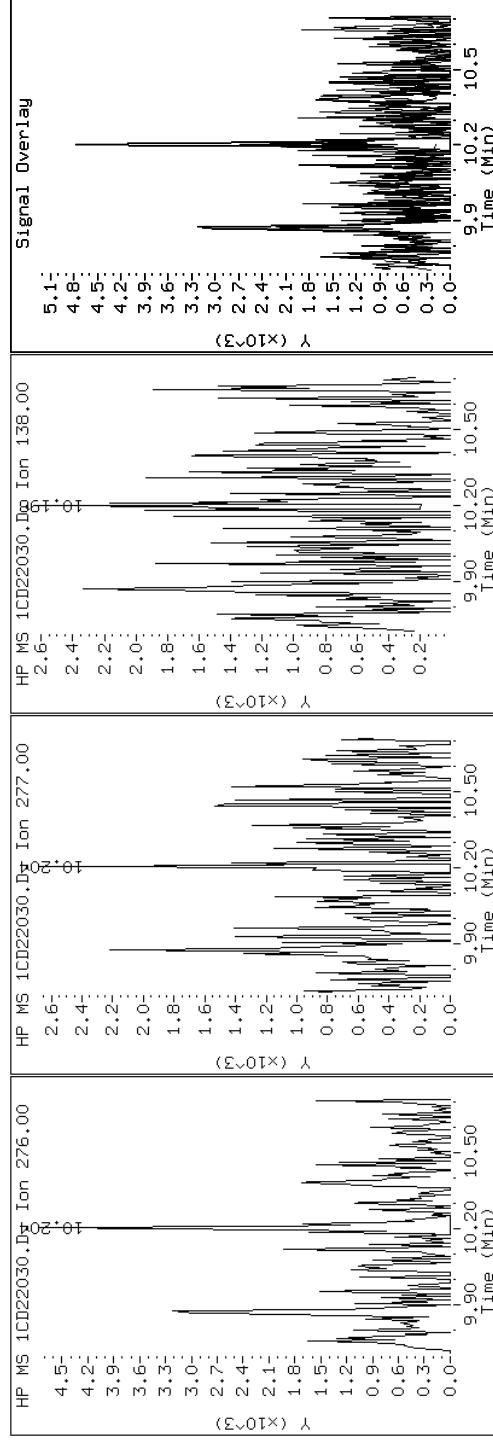
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

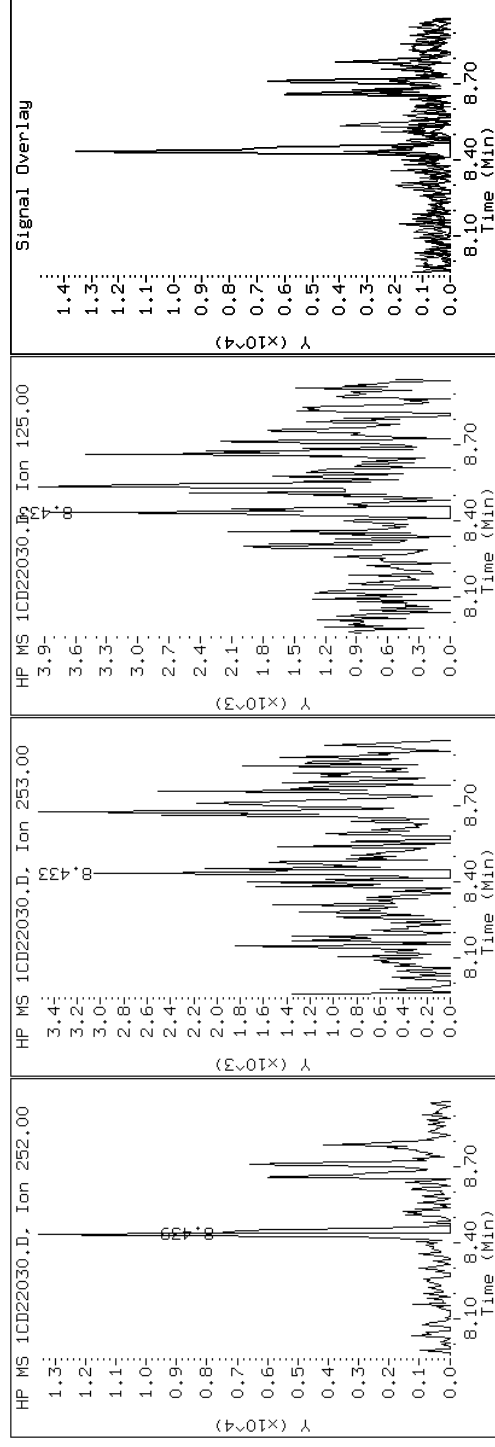
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

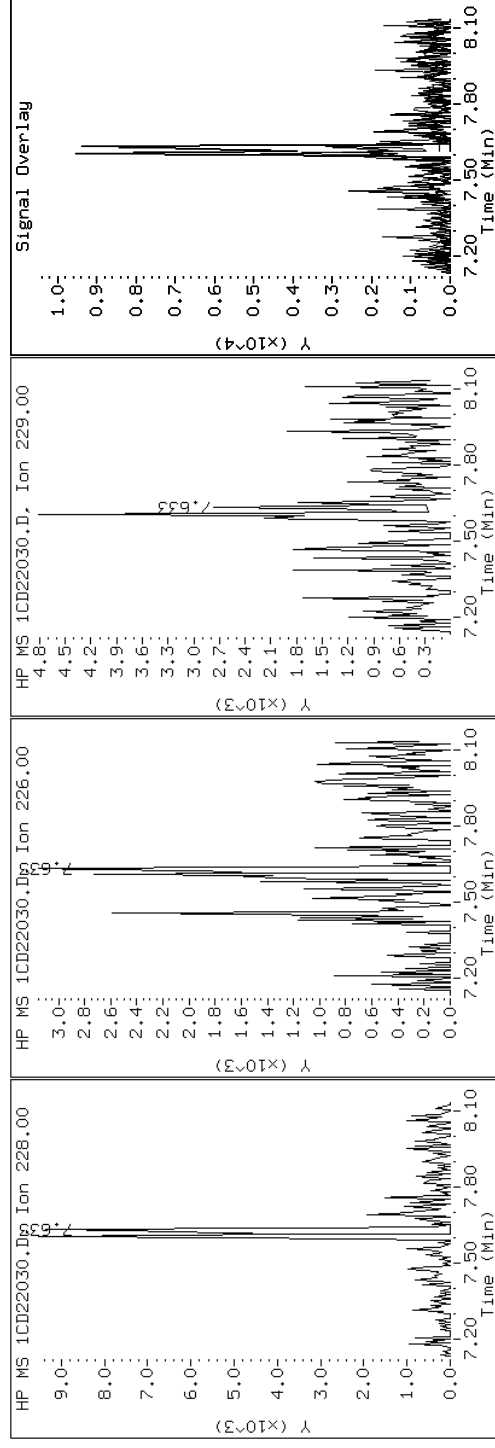
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

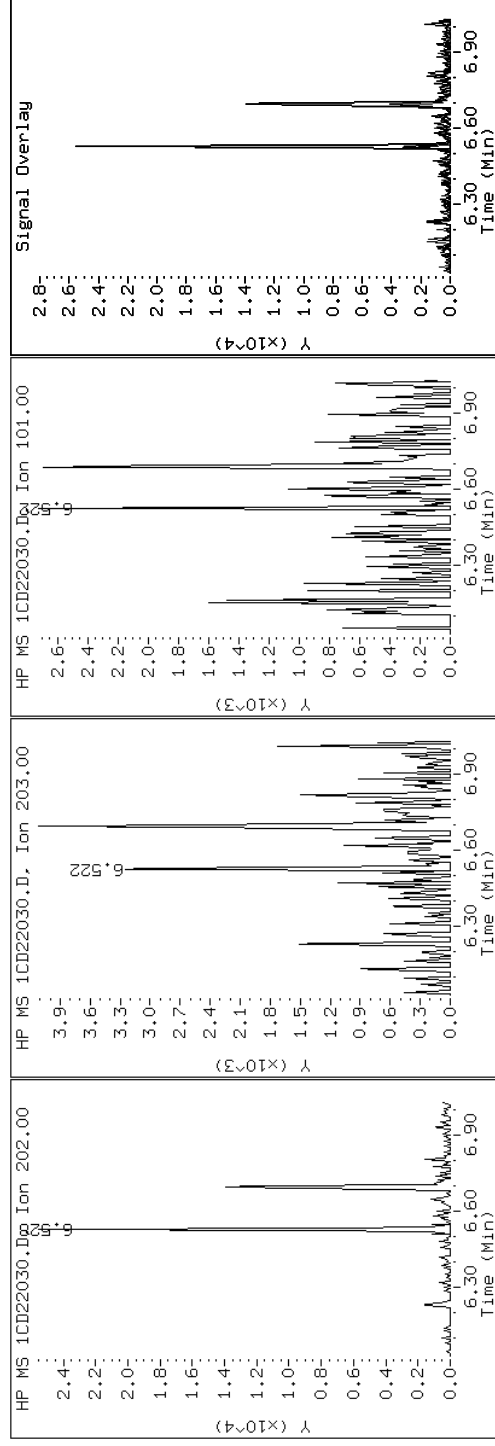
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

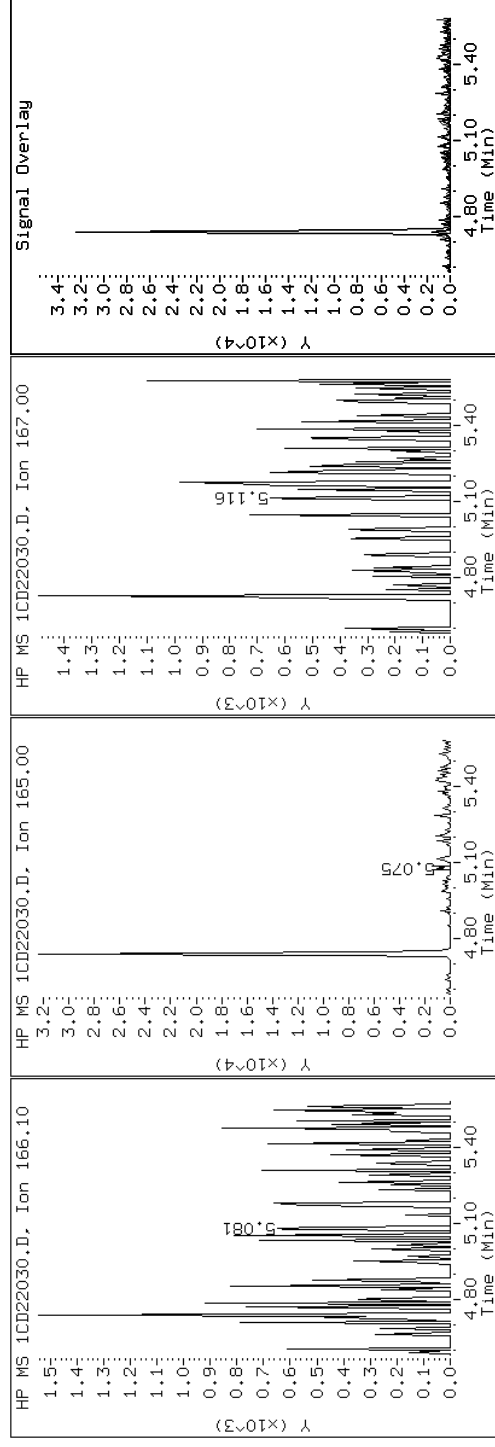
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

9 Fluorene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

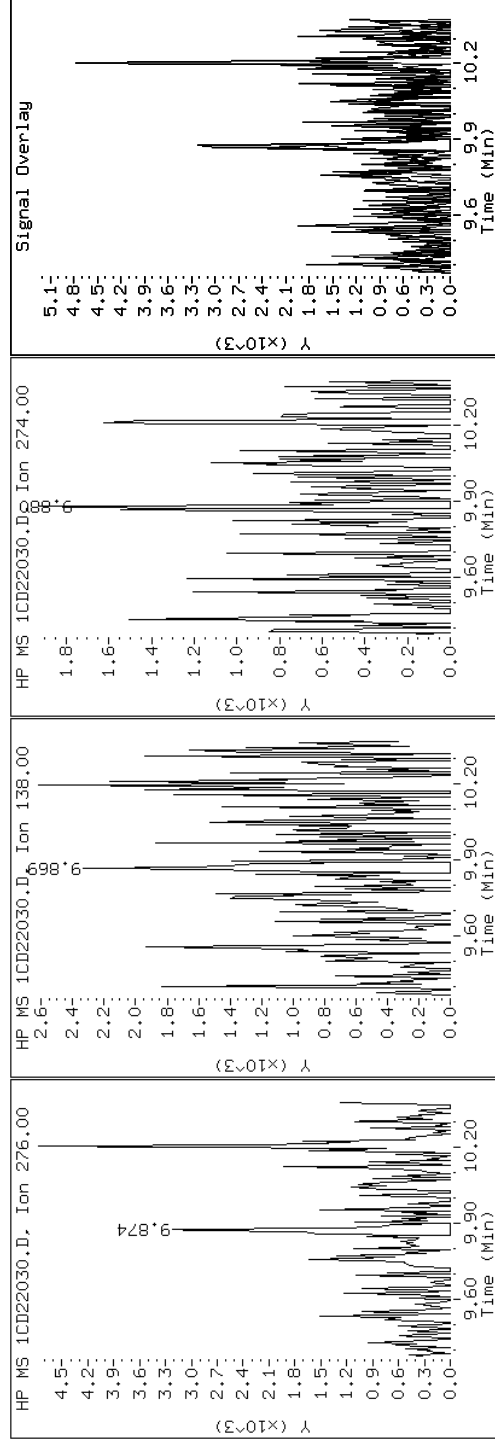
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

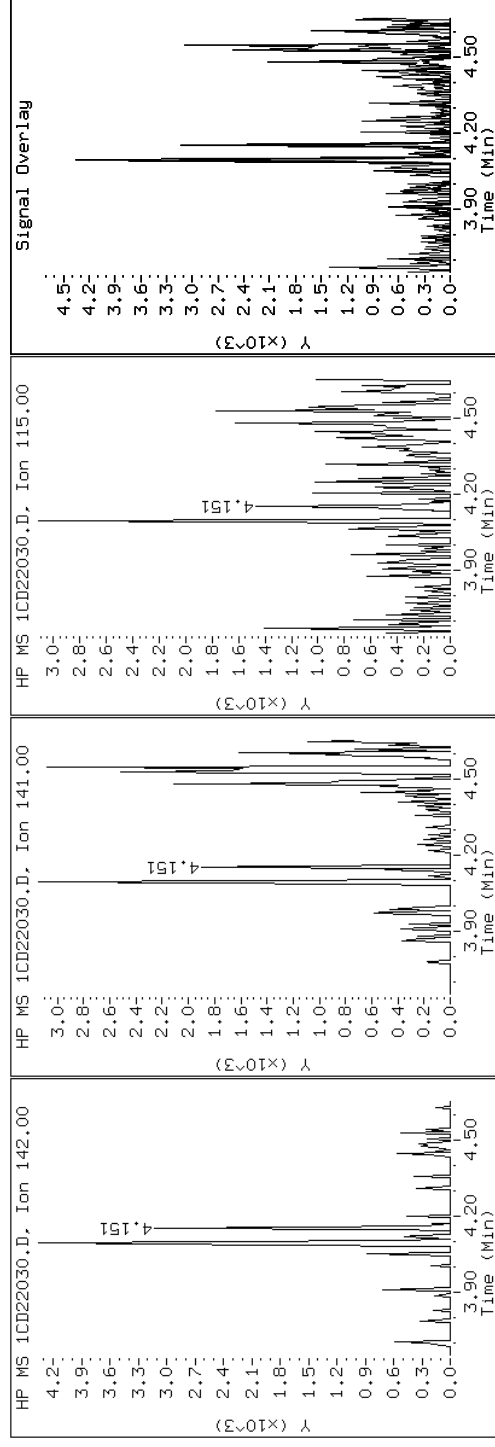
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

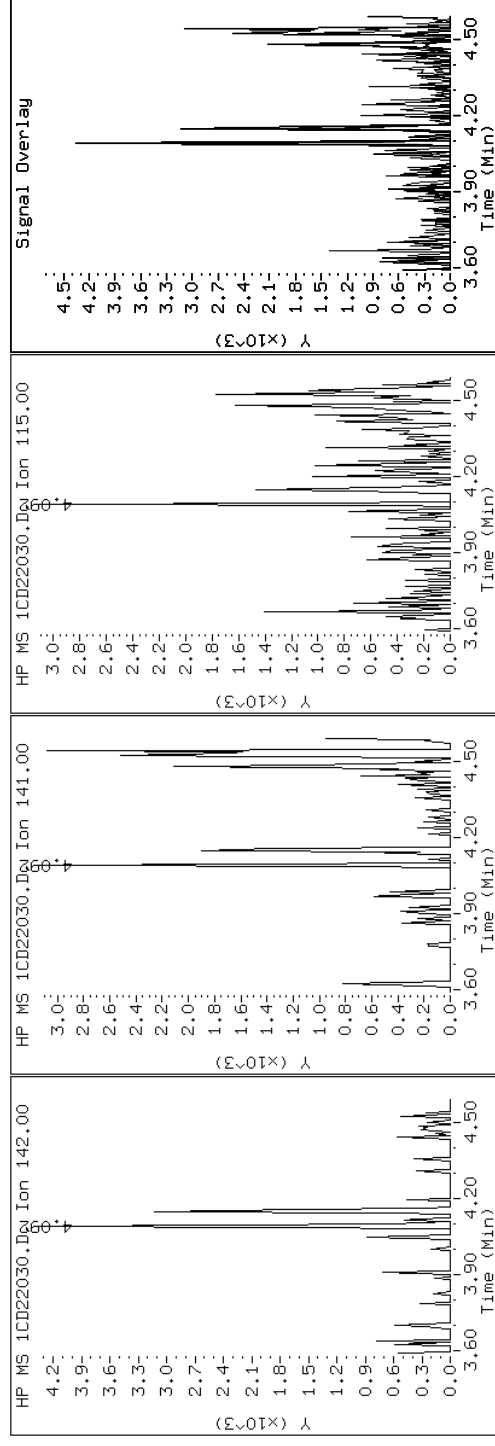
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

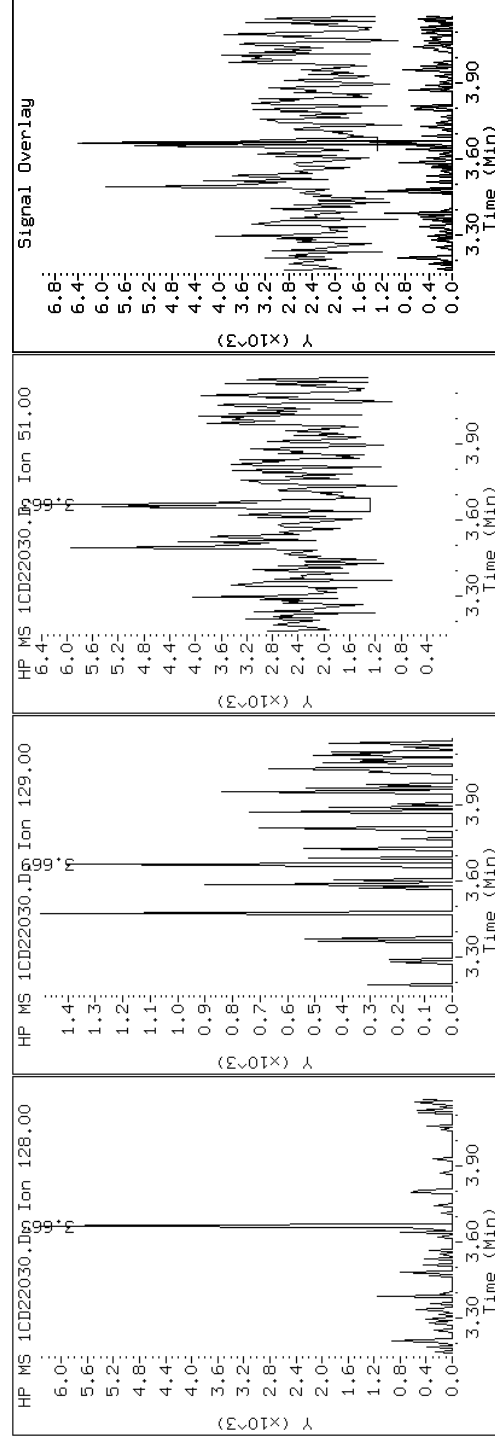
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

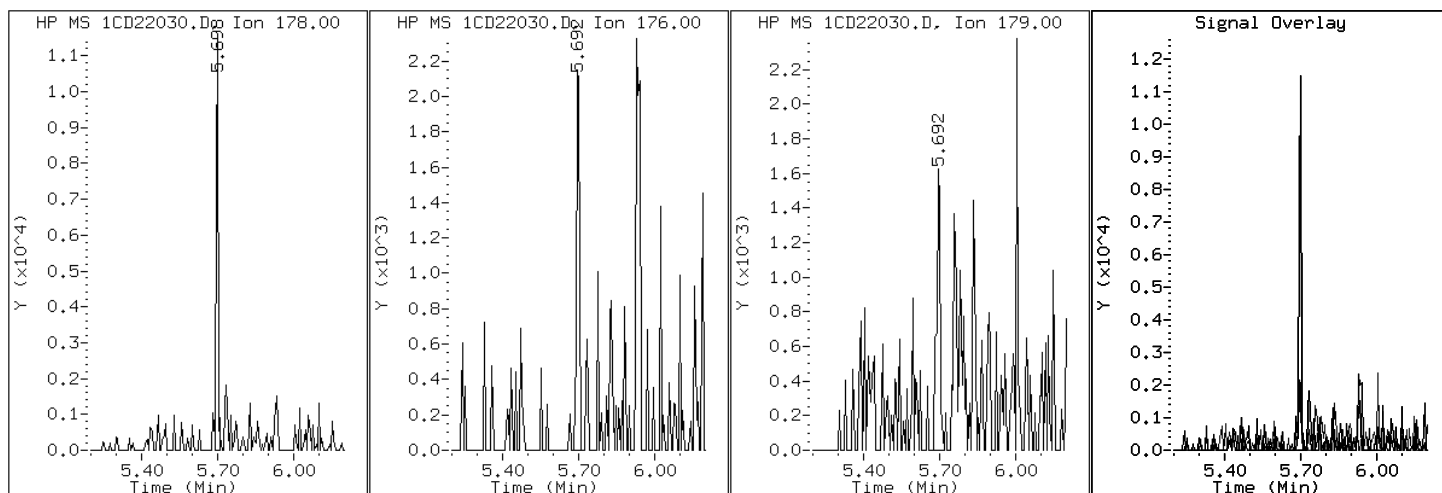
Client ID: FM0015B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1CD22030.D

Date: 22-APR-2013 20:50

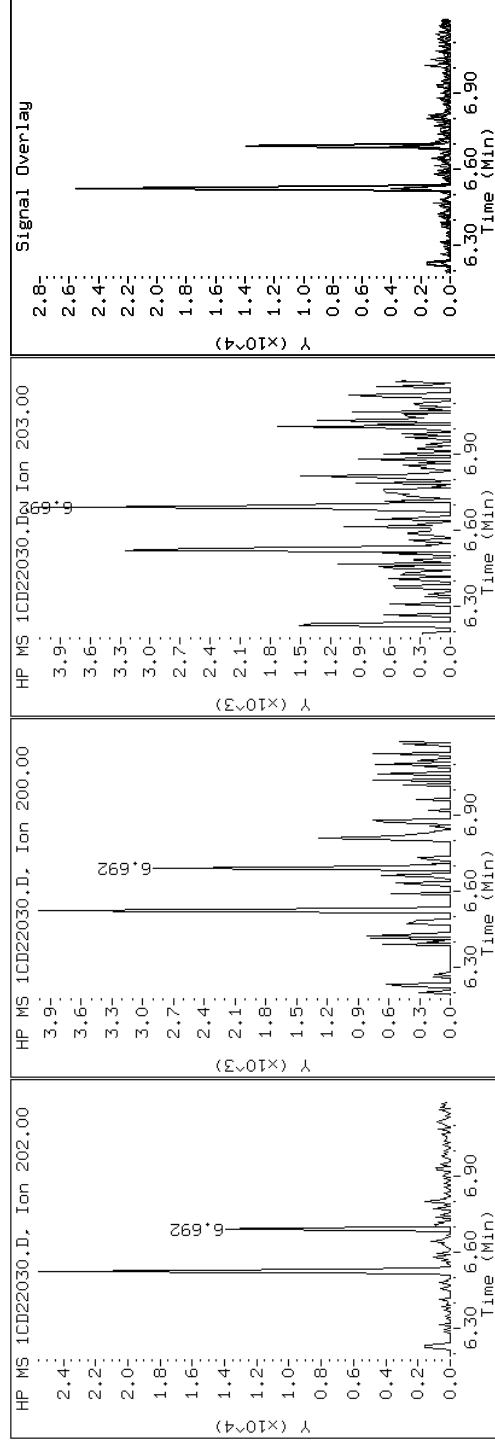
Client ID: FM0015B-CS

Sample Info: 680-89459-a-4-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

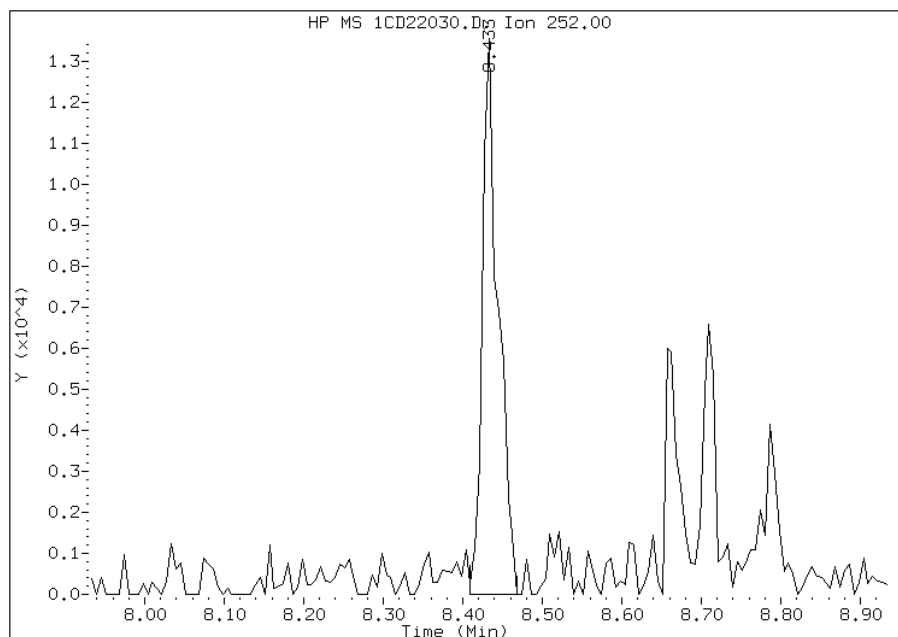


Manual Integration Report

Data File: 1CD22030.D
Inj. Date and Time: 22-APR-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM0015B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

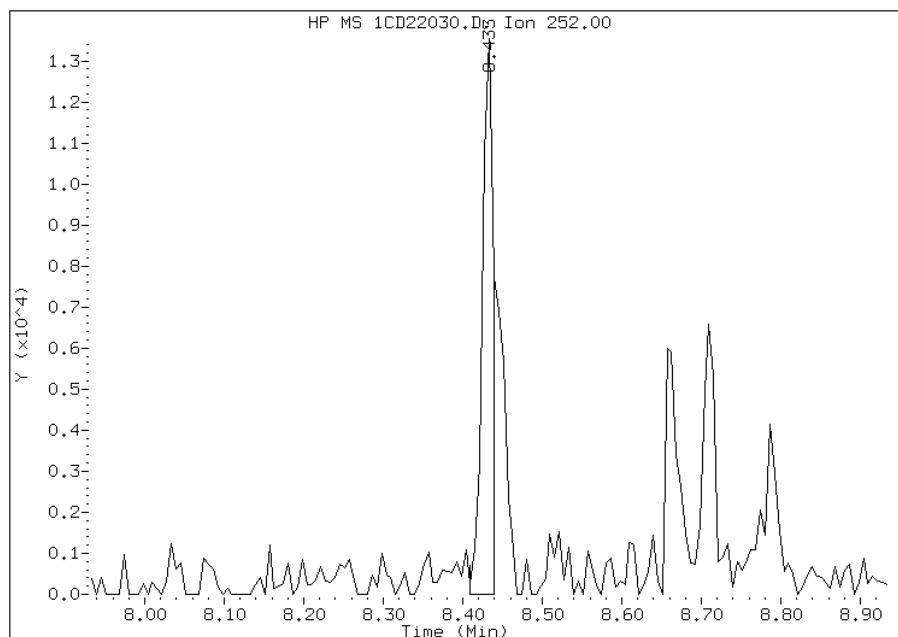
Processing Integration Results

RT: 8.43
Response: 18677
Amount: 3
Conc: 229



Manual Integration Results

RT: 8.43
Response: 12893
Amount: 2
Conc: 158



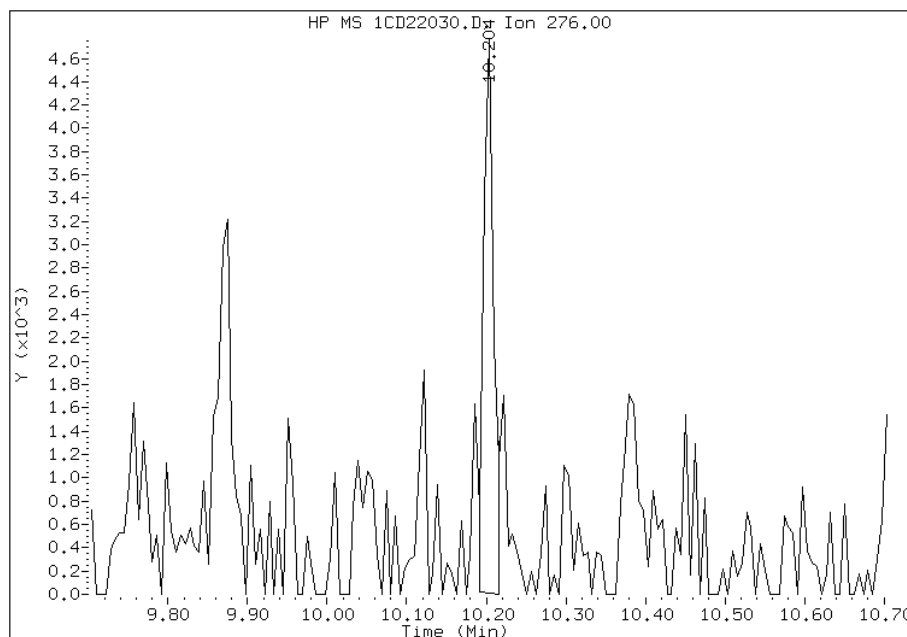
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22030.D
Inj. Date and Time: 22-APR-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM0015B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

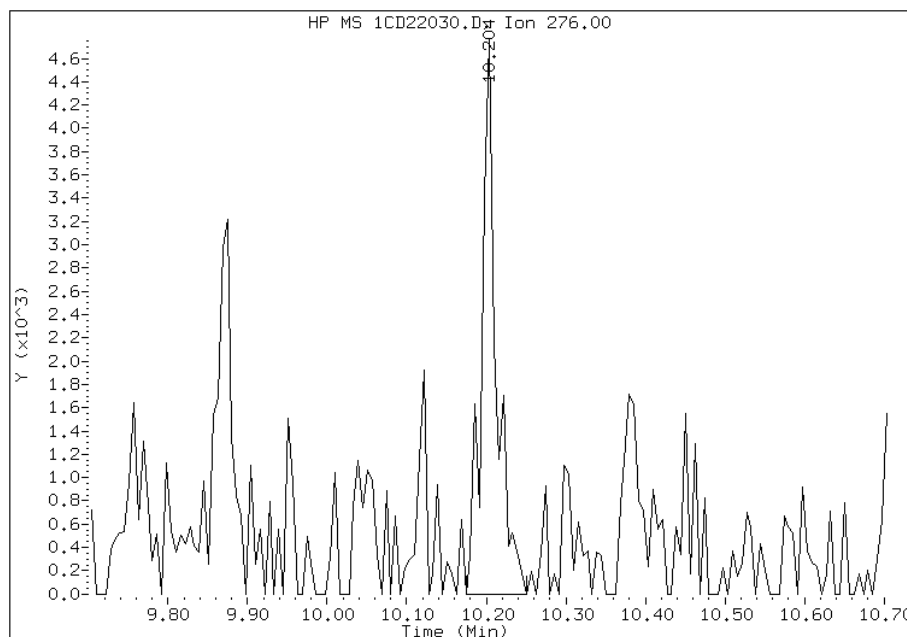
Processing Integration Results

RT: 10.20
Response: 4296
Amount: 1
Conc: 54



Manual Integration Results

RT: 10.20
Response: 6157
Amount: 1
Conc: 78



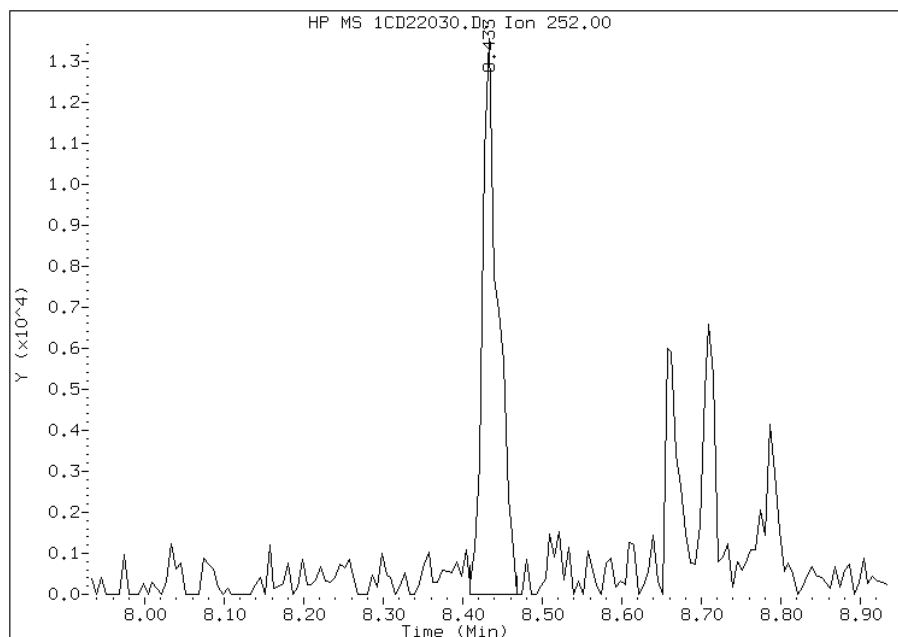
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22030.D
Inj. Date and Time: 22-APR-2013 20:50
Instrument ID: BSMC5973.i
Client ID: FM0015B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

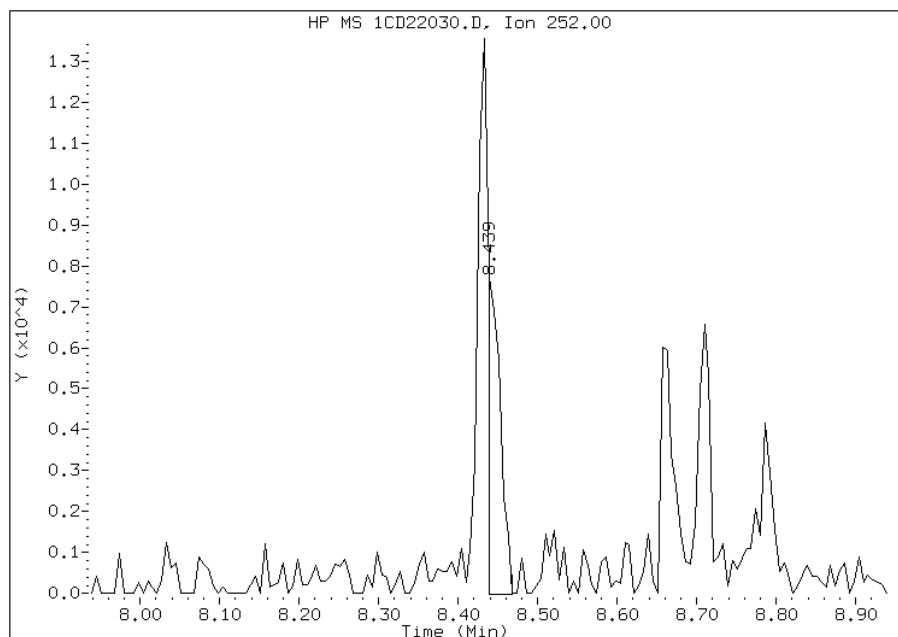
Processing Integration Results

RT: 8.43
Response: 18677
Amount: 2
Conc: 202



Manual Integration Results

RT: 8.44
Response: 8541
Amount: 1
Conc: 92



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:34
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0015C-GS</u>	Lab Sample ID: <u>680-89459-5</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22031.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.94(g)</u>	Date Analyzed: <u>04/22/2013 21:08</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>27.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	220	U	220	28
120-12-7	Anthracene	46		46	23
56-55-3	Benzo[a]anthracene	130		44	22
50-32-8	Benzo[a]pyrene	140		58	29
205-99-2	Benzo[b]fluoranthene	150		68	34
191-24-2	Benzo[g,h,i]perylene	73	J	110	24
207-08-9	Benzo[k]fluoranthene	29	J	44	20
218-01-9	Chrysene	150		50	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	23
206-44-0	Fluoranthene	110		110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	110	U	110	39
90-12-0	1-Methylnaphthalene	70	J	220	24
91-57-6	2-Methylnaphthalene	170	J	220	39
91-20-3	Naphthalene	84	J	220	24
85-01-8	Phenanthrene	170		44	22
129-00-0	Pyrene	120		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22031.D
Lab Smp Id: 680-89459-A-5-A Client Smp ID: FM0015C-CS
Inj Date : 22-APR-2013 21:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-5-a
Misc Info : 680-89459-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	27.451	% 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		3.651	3.651	(1.000)		240896	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		168419	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		299915	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		7691	2.23824	826.0091
* 18 Chrysene-d12	240		7.610	7.615	(1.000)		290159	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		280066	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		1481	0.22743	83.9328(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		871	0.47271	174.4519(Q)
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		789	0.18969	70.0027(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		4047	0.46703	172.3545
12 Anthracene	178		5.727	5.733	(1.008)		1089	0.12507	46.1577(Q)
15 Fluoranthene	202		6.527	6.527	(1.149)		2910	0.29910	110.3796
16 Pyrene	202		6.692	6.692	(0.879)		2768	0.33532	123.7489
17 Benzo(a)anthracene	228		7.604	7.603	(0.999)		2955	0.36014	132.9076

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
19 Chrysene	228	7.633	7.633	(1.003)	3230	0.39793	146.8551
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	2879	0.40700	150.1999
21 Benzo(k)fluoranthene	252	8.457	8.456	(0.965)	619	0.07733	28.5392(Q)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	2679	0.36638	135.2111
26 Benzo(g,h,i)perylene	276	10.186	10.209	(1.162)	1363	0.19887	73.3930(M)

QC Flag Legend

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

Data File: 1CD22031.D

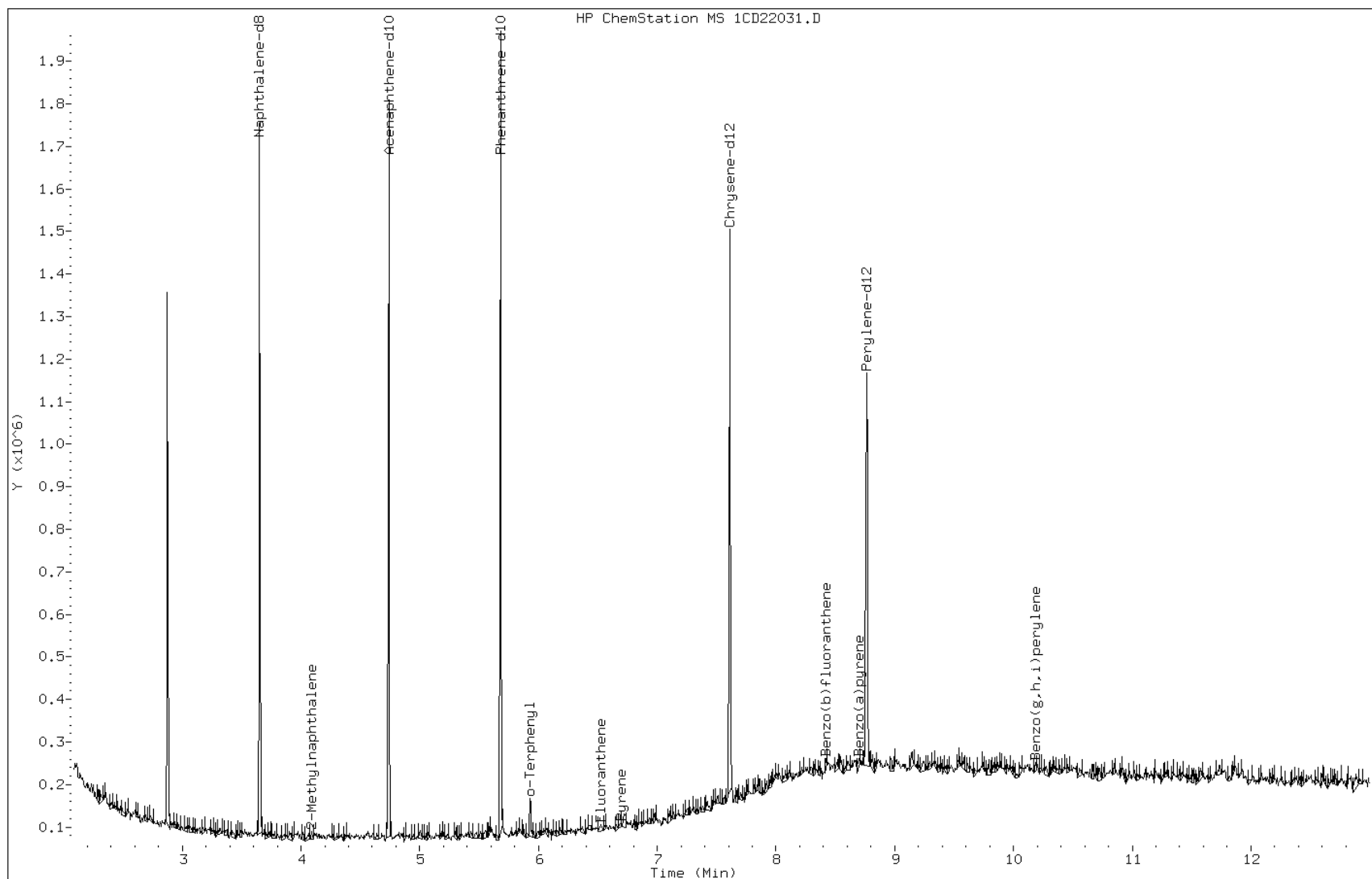
Date: 22-APR-2013 21:08

Client ID: FM0015C-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-5-a

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

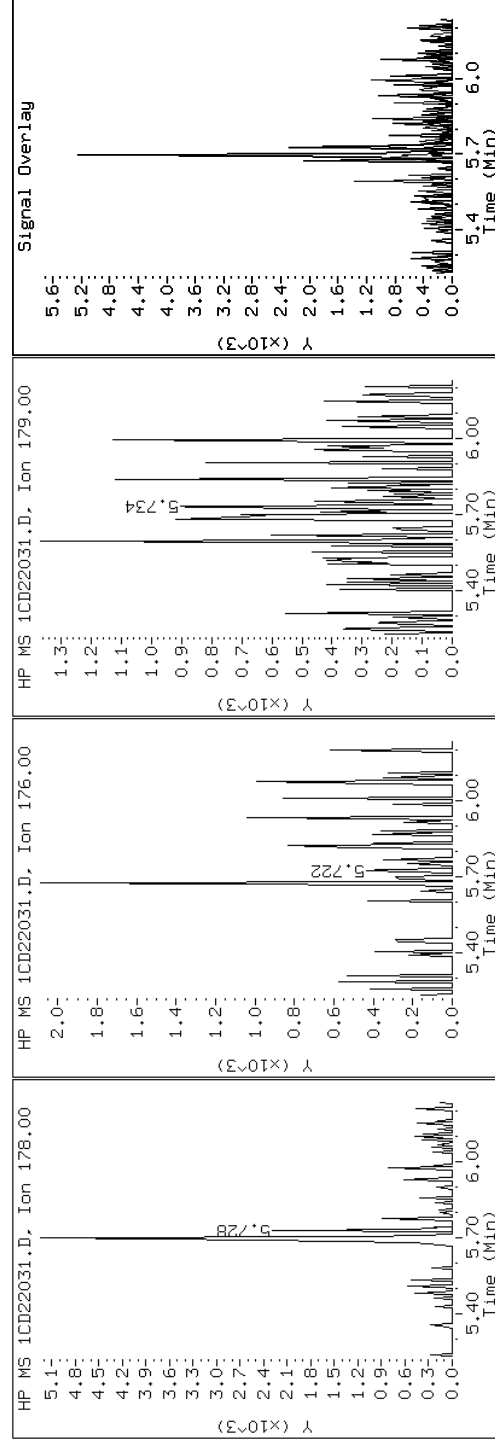
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

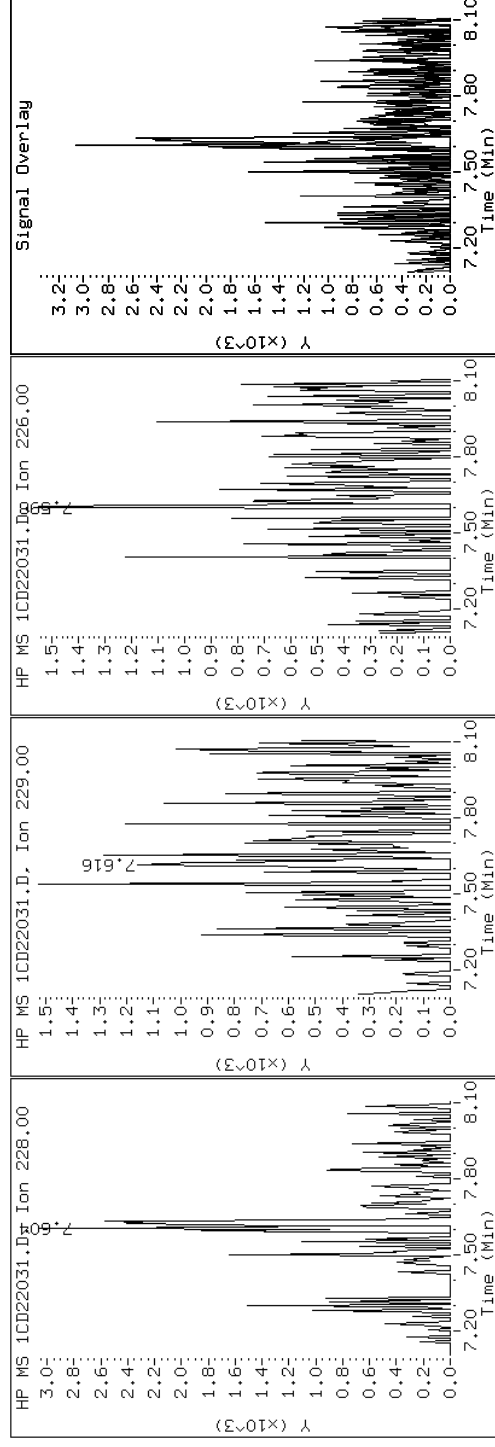
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

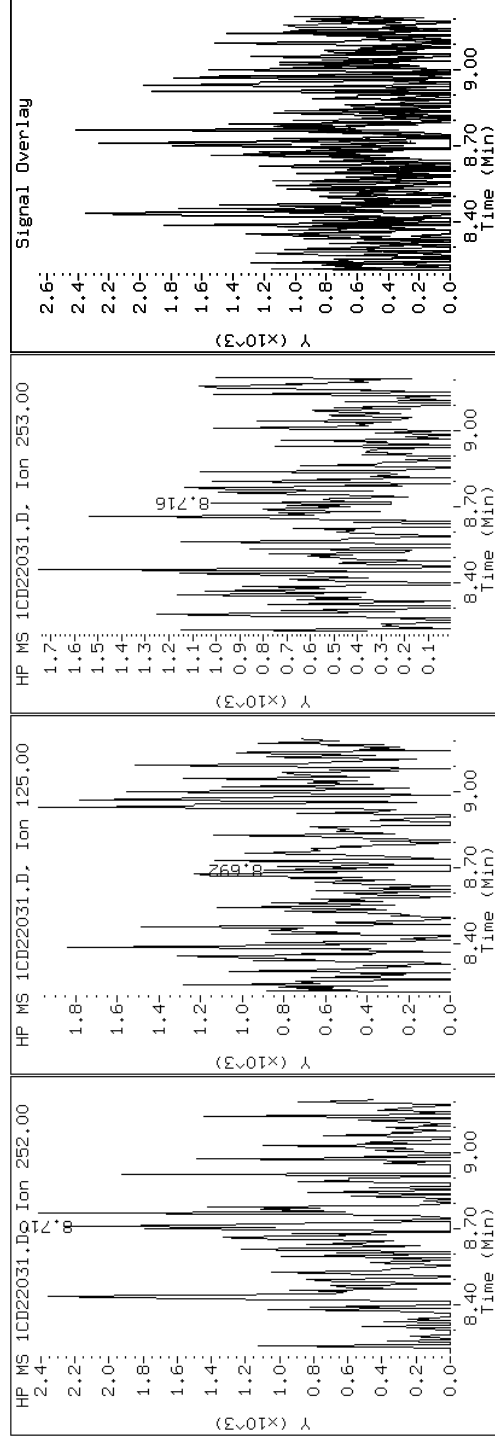
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

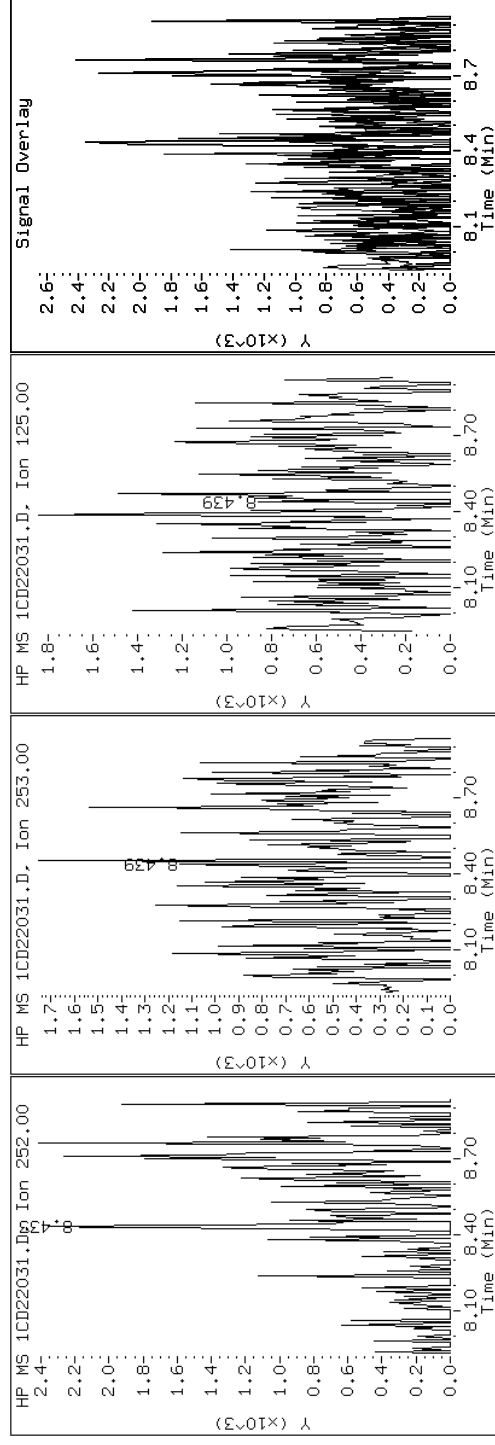
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

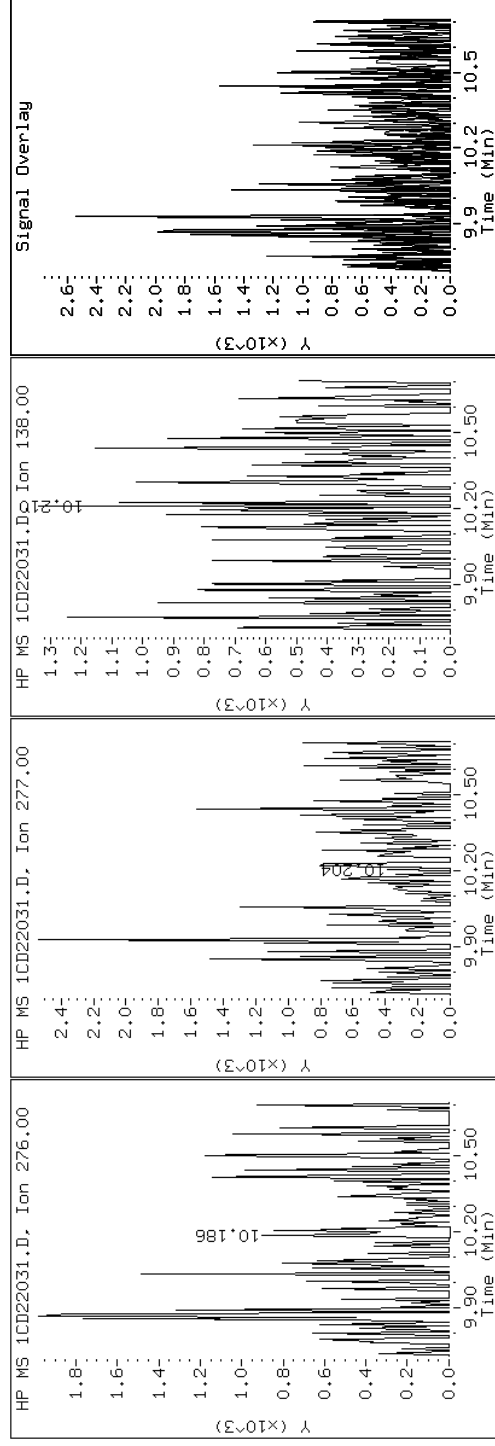
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

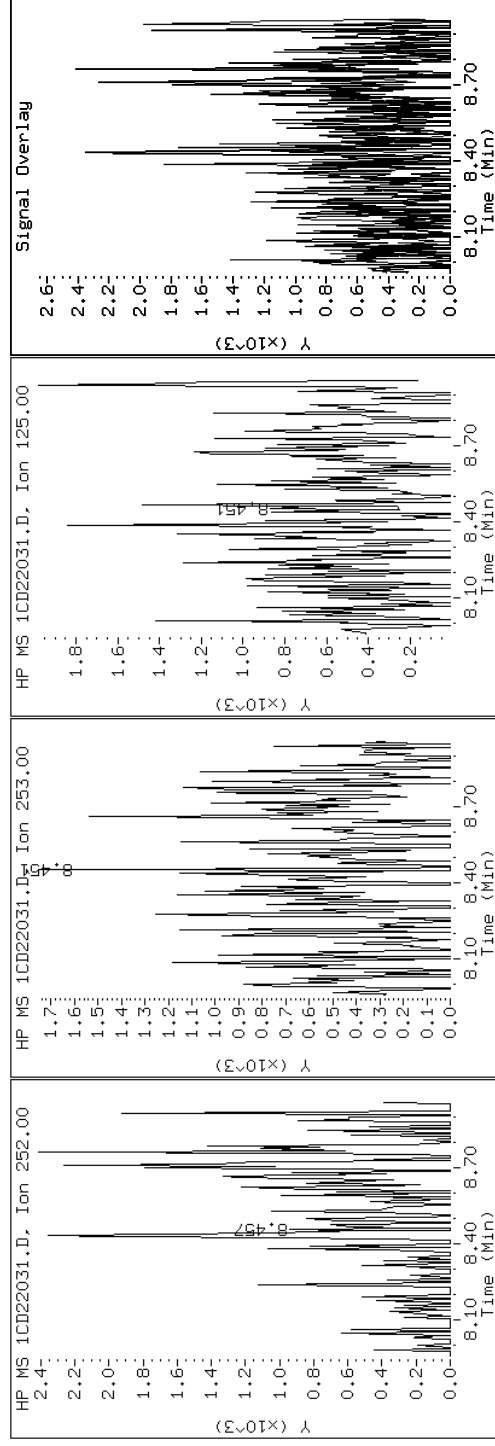
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

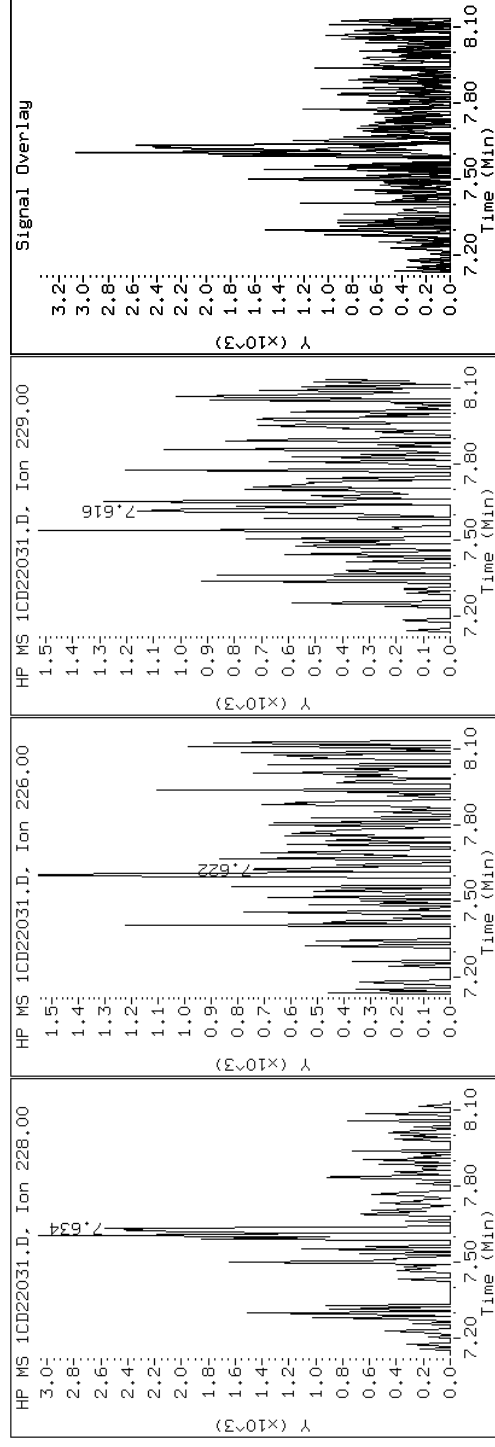
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

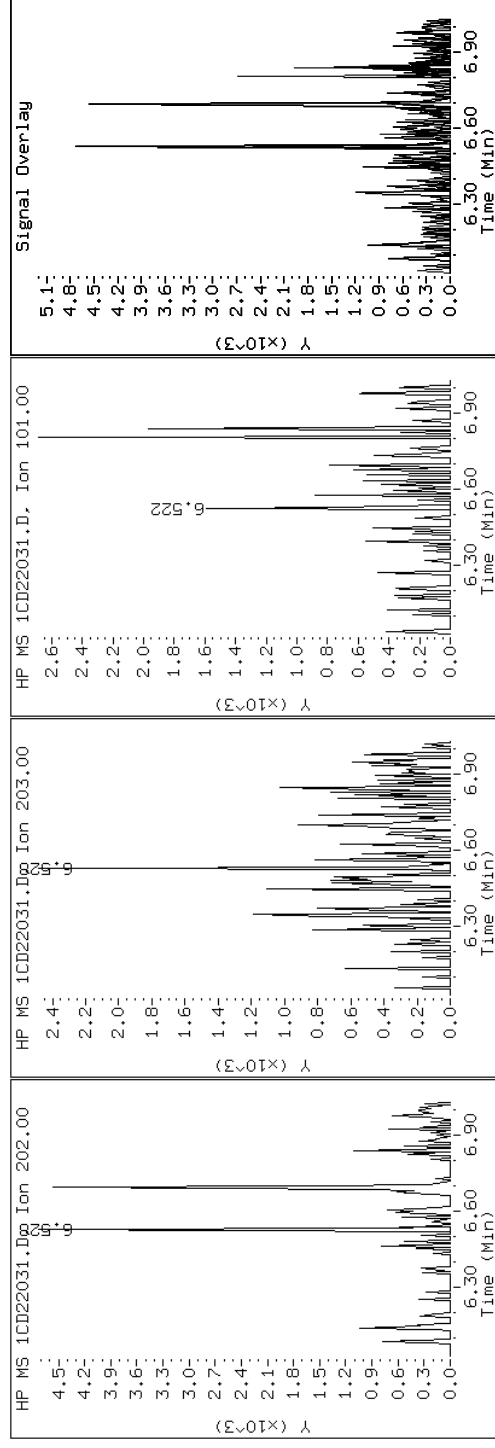
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

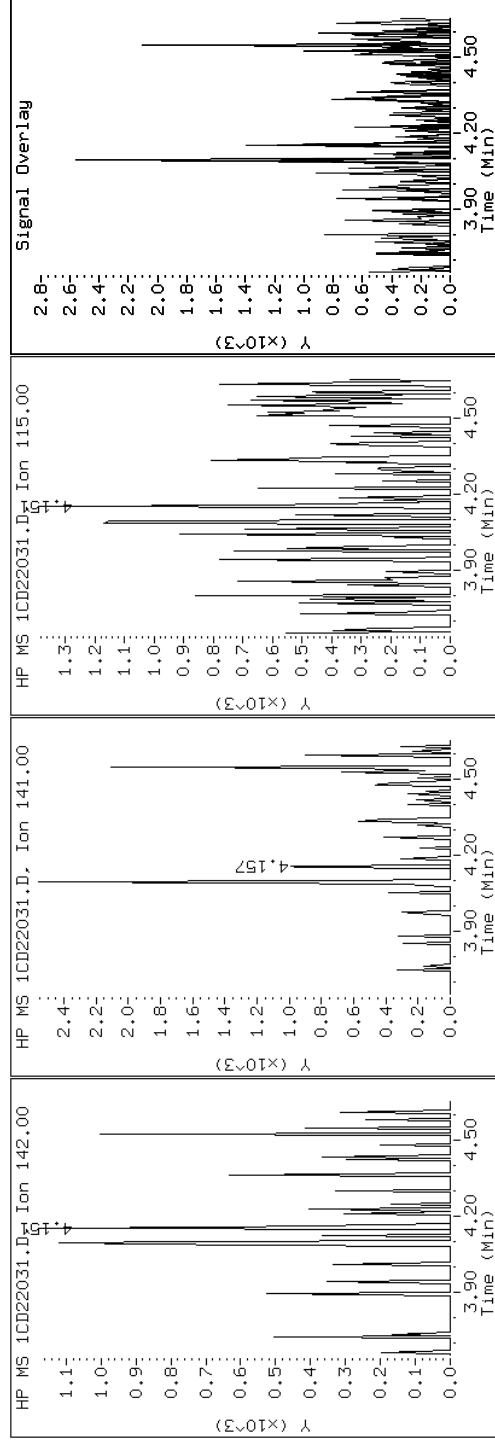
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

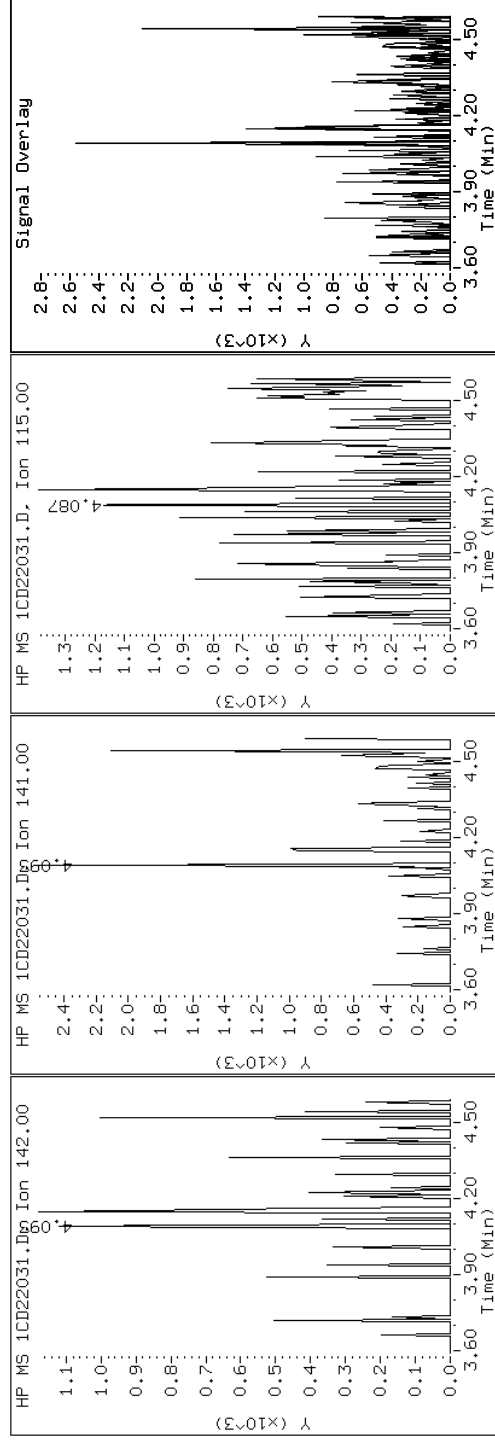
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

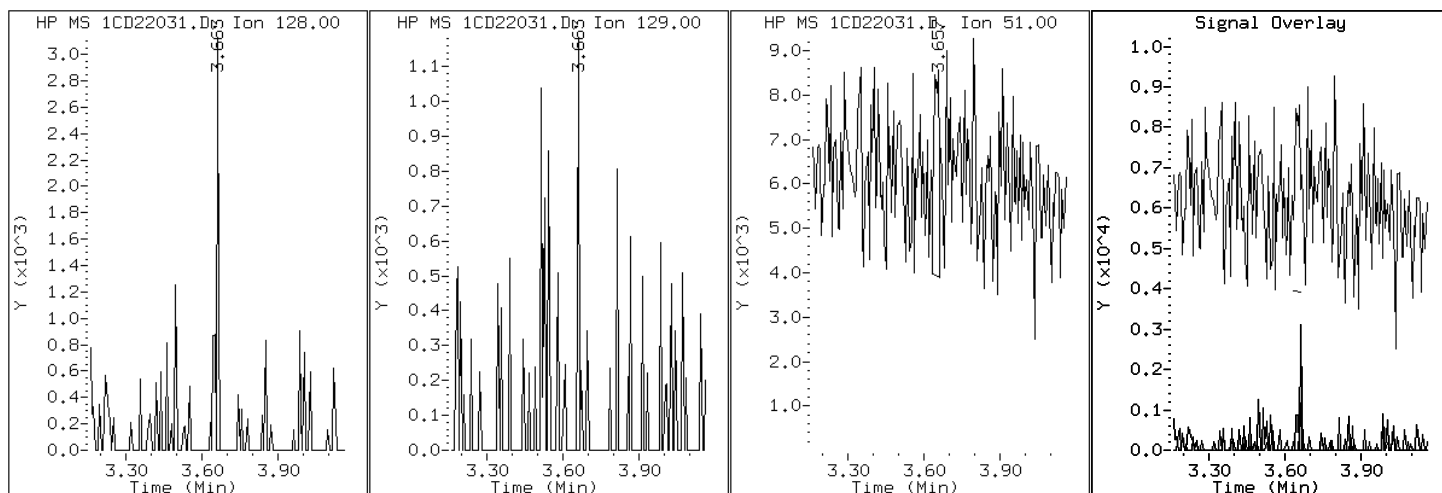
Client ID: FM0015C-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

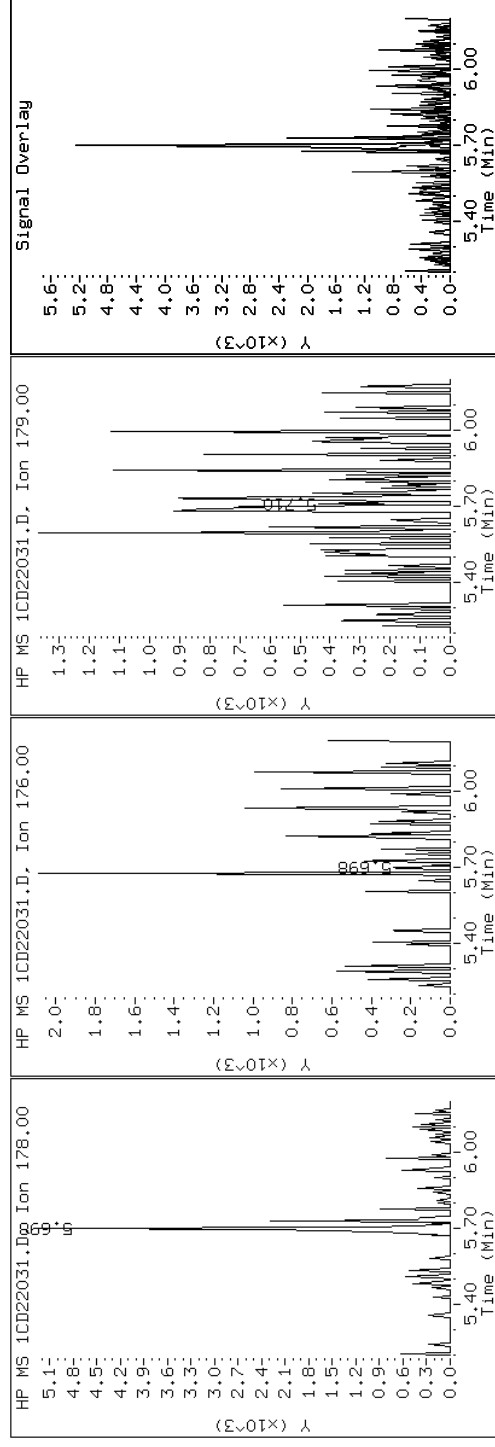
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22031.D

Date: 22-APR-2013 21:08

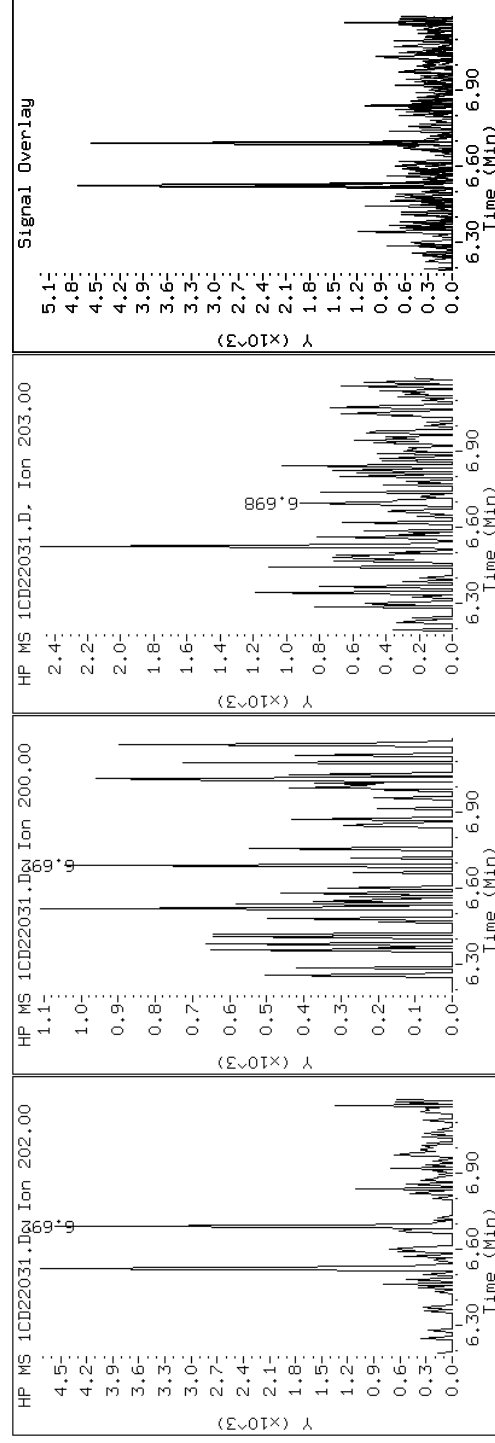
Client ID: FM0015C-CS

Sample Info: 680-89459-a-5-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

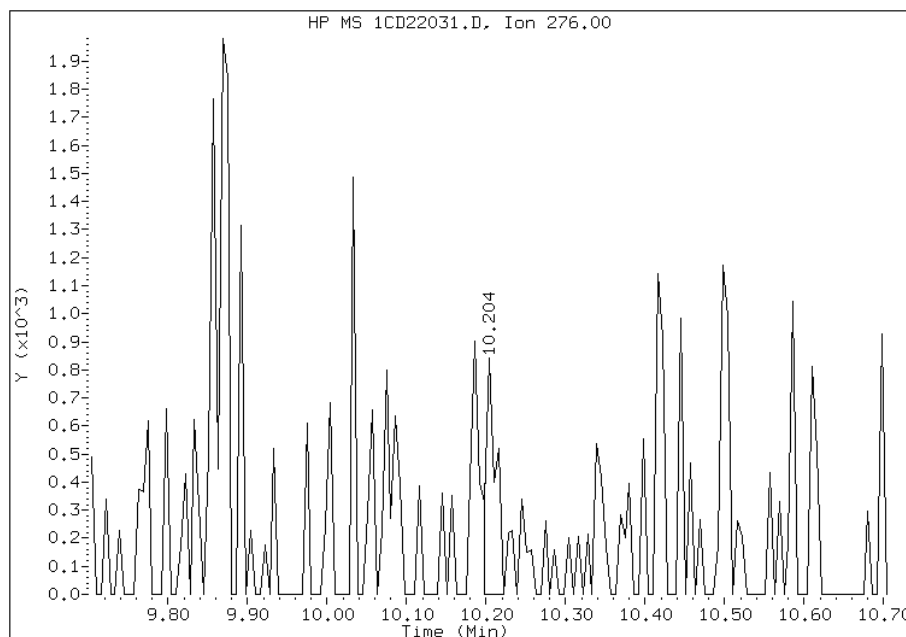


Manual Integration Report

Data File: 1CD22031.D
Inj. Date and Time: 22-APR-2013 21:08
Instrument ID: BSMC5973.i
Client ID: FM0015C-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

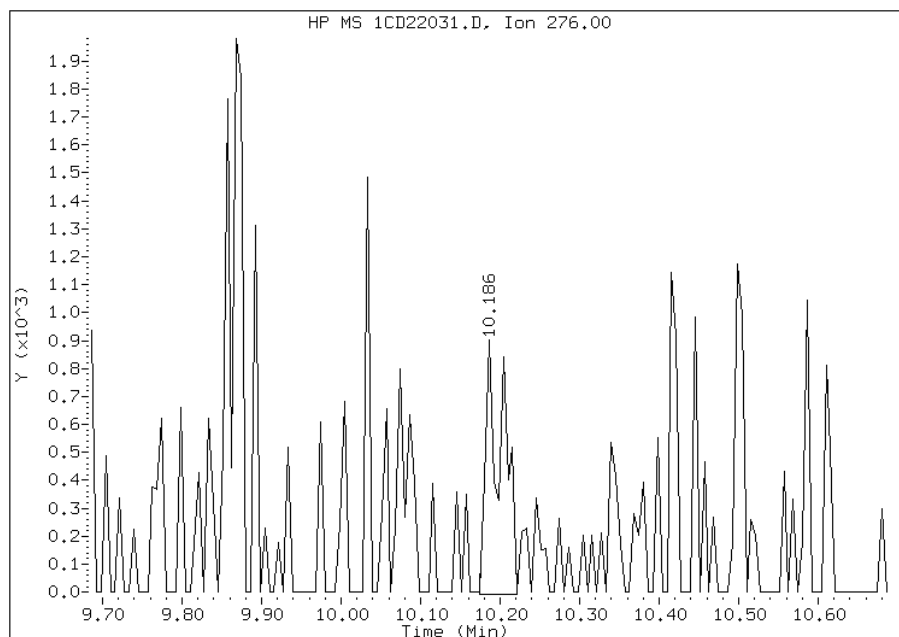
Processing Integration Results

RT: 10.20
Response: 738
Amount: 0
Conc: 40



Manual Integration Results

RT: 10.19
Response: 1363
Amount: 0
Conc: 73



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:42
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0337A-CS</u>	Lab Sample ID: <u>680-89459-6</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22032.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 08:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.26(g)</u>	Date Analyzed: <u>04/22/2013 21:26</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>20.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	16	J	50	6.2
120-12-7	Anthracene	18		10	5.2
56-55-3	Benzo[a]anthracene	85		9.9	4.8
50-32-8	Benzo[a]pyrene	94		13	6.5
205-99-2	Benzo[b]fluoranthene	120		15	7.6
191-24-2	Benzo[g,h,i]perylene	70		25	5.5
207-08-9	Benzo[k]fluoranthene	110		9.9	4.5
218-01-9	Chrysene	110		11	5.6
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.1
206-44-0	Fluoranthene	170		25	5.0
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	110		25	8.8
90-12-0	1-Methylnaphthalene	17	J	50	5.5
91-57-6	2-Methylnaphthalene	50		50	8.8
91-20-3	Naphthalene	31	J	50	5.5
85-01-8	Phenanthrene	78		9.9	4.8
129-00-0	Pyrene	150		25	4.6

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\1C042213.b\1CD22032.D
Lab Smp Id: 680-89459-A-6-A Client Smp ID: FM0337A-CS
Inj Date : 22-APR-2013 21:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-6-a
Misc Info : 680-89459-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	20.930	% 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		3.651	3.651	(1.000)		214709	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		155812	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		293410	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		26307	6.10402	505.8836
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		305134	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		282959	40.0000	
2 Naphthalene	128		3.669	3.663	(1.005)		2201	0.37923	31.4292
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		1305	0.60891	50.4651
4 1-Methylnaphthalene	142		4.157	4.151	(1.139)		782	0.21093	17.4816
5 Acenaphthylene	152		4.651	4.651	(0.981)		1265	0.19160	15.8791
11 Phenanthrene	178		5.698	5.698	(1.003)		8096	0.94661	78.4522
12 Anthracene	178		5.733	5.733	(1.009)		1872	0.21977	18.2138
13 Carbazole	167		5.839	5.839	(1.028)		1629	0.20534	17.0178(Q)
15 Fluoranthene	202		6.527	6.527	(1.149)		19445	2.04291	169.3106

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
16 Pyrene	202	6.692	6.692	(0.879)	15690	1.80745	149.7962
17 Benzo(a)anthracene	228	7.609	7.603	(0.999)	8836	1.02404	84.8693
19 Chrysene	228	7.633	7.633	(1.002)	11721	1.37315	113.8030
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	10198	1.42693	118.2597
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	10716	1.32509	109.8194
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	8405	1.13772	94.2912
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	5354	1.36890	113.4503(M)
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	5822	0.84080	69.6827(M)

QC Flag Legend

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

Data File: 1CD22032.D

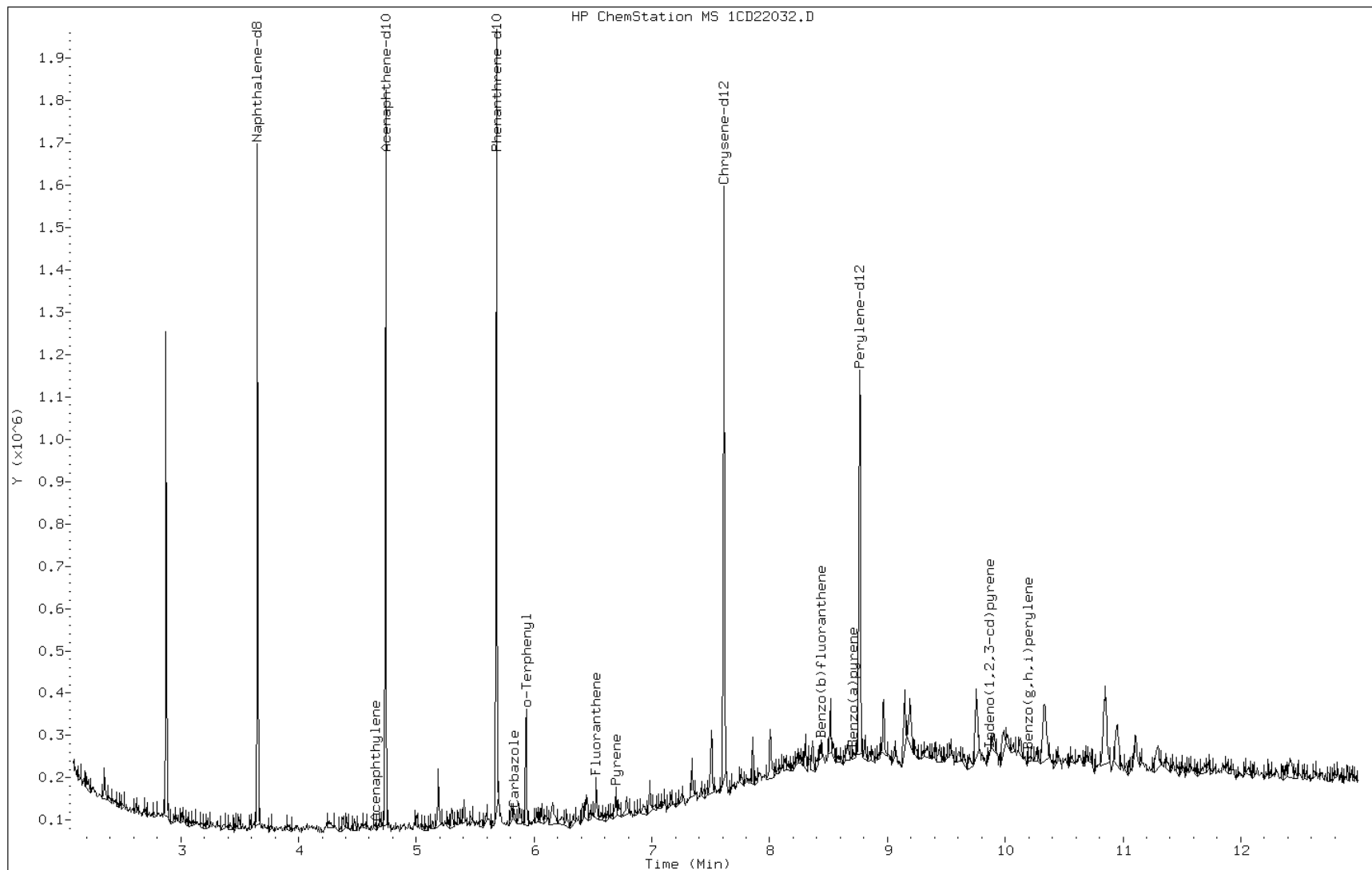
Date: 22-APR-2013 21:26

Client ID: FM0337A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-6-a

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

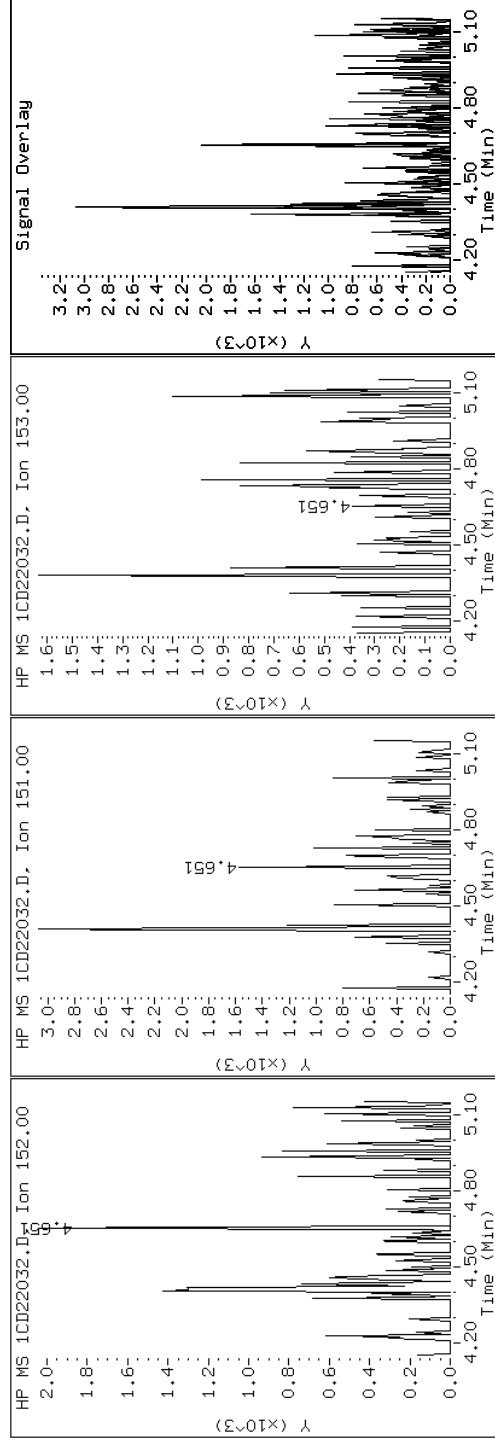
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

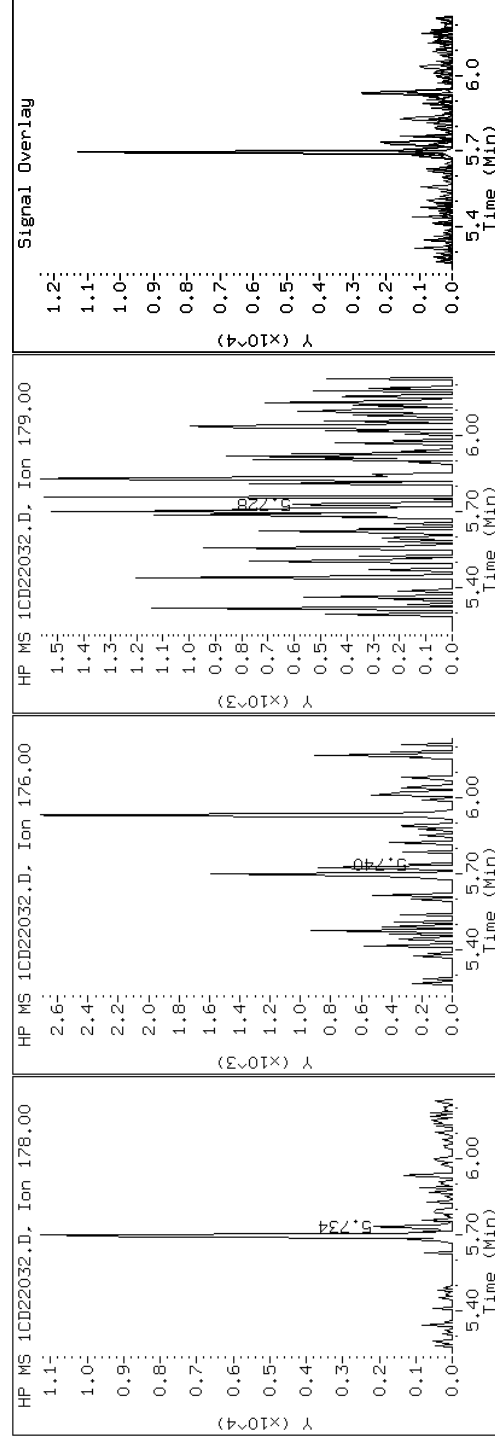
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

12 Anthracene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

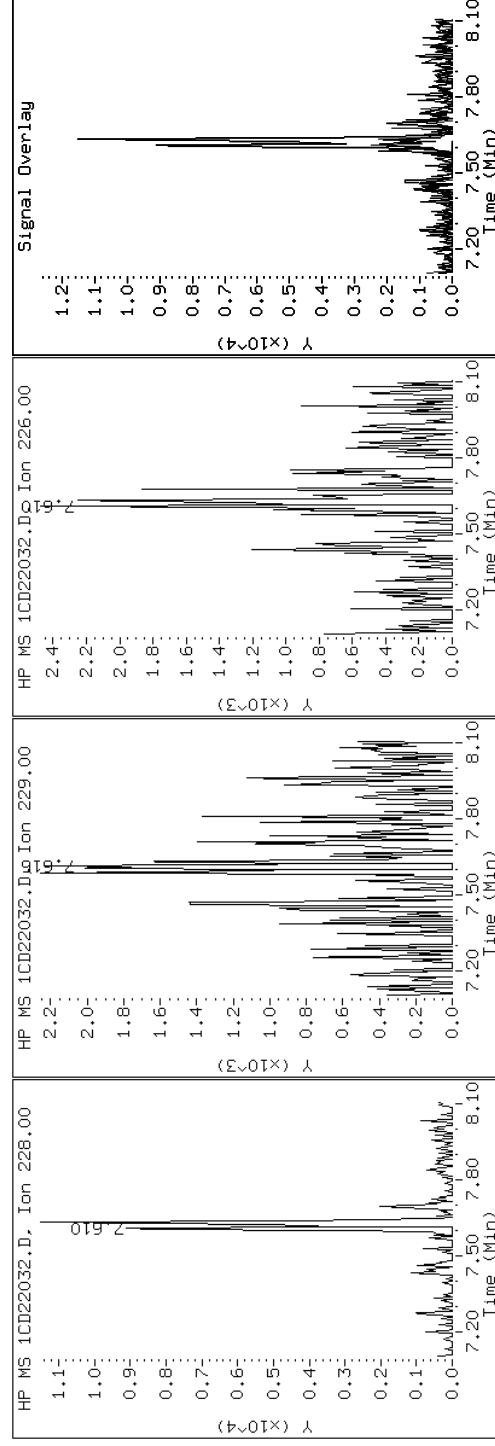
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

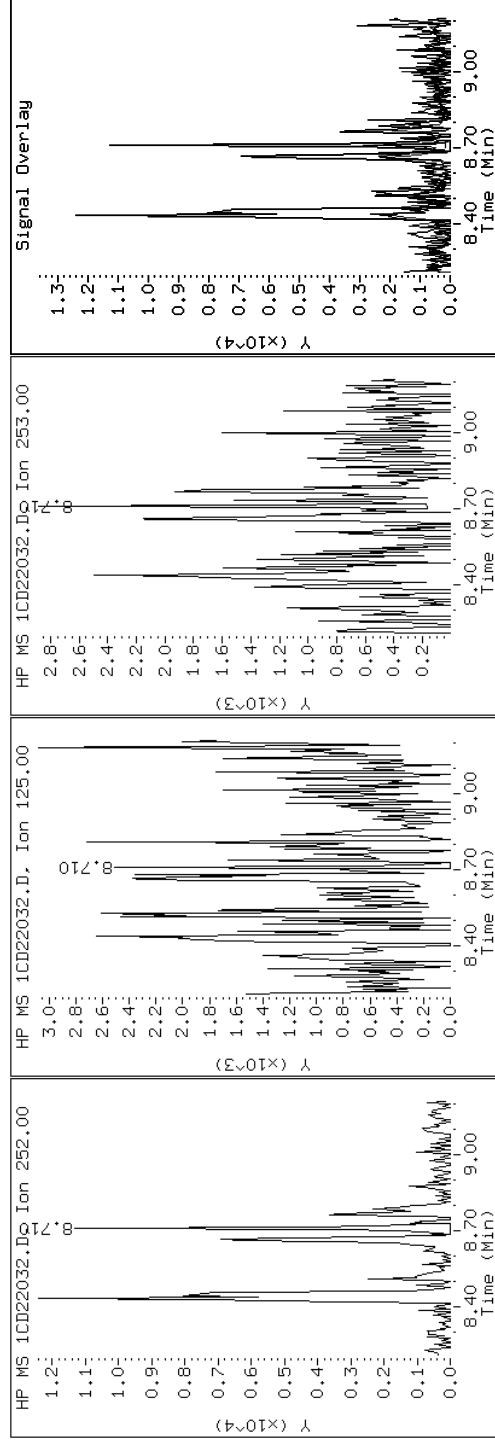
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

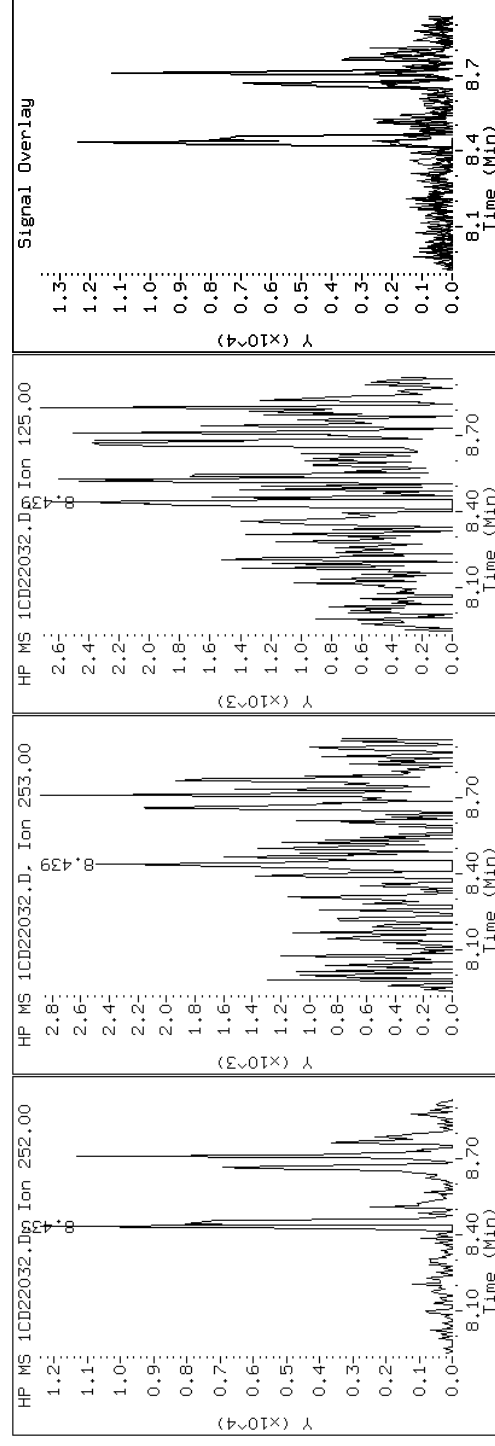
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

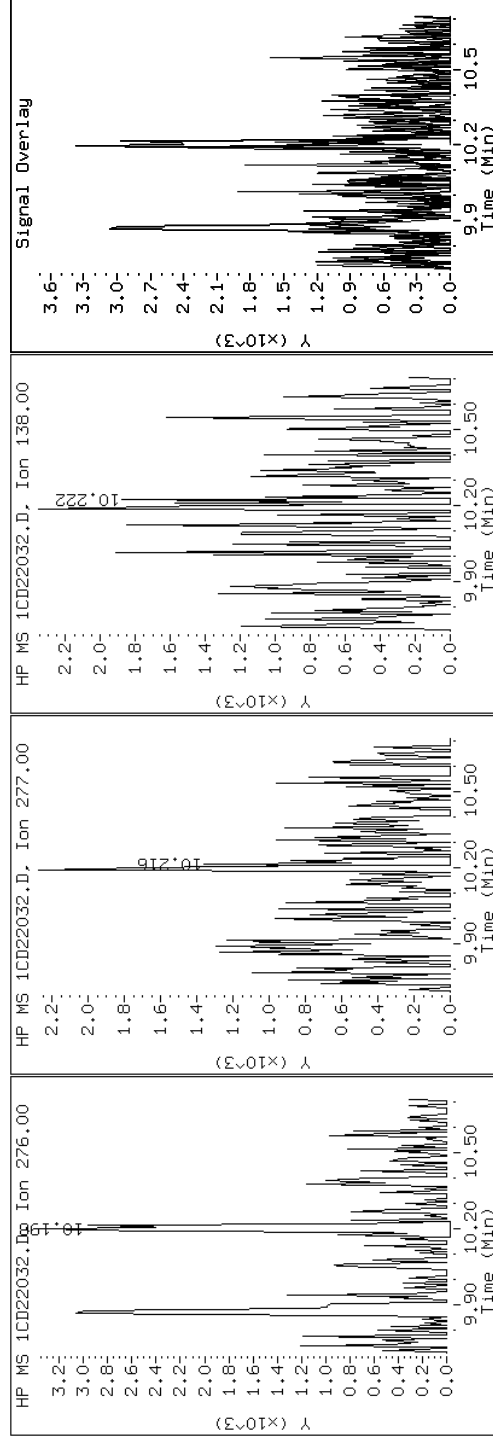
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

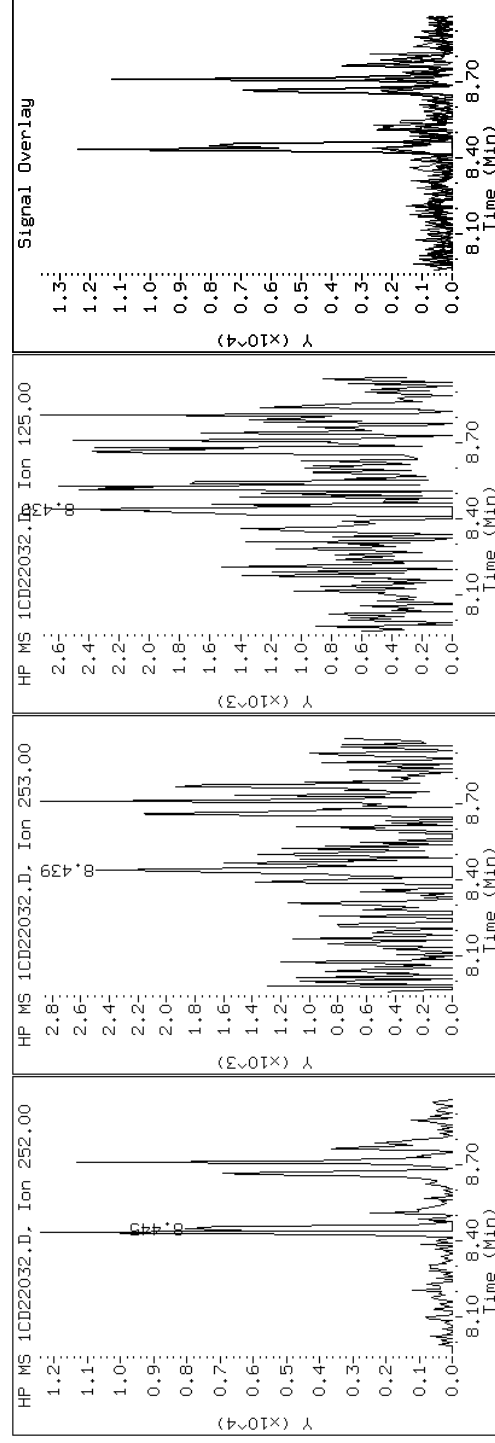
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

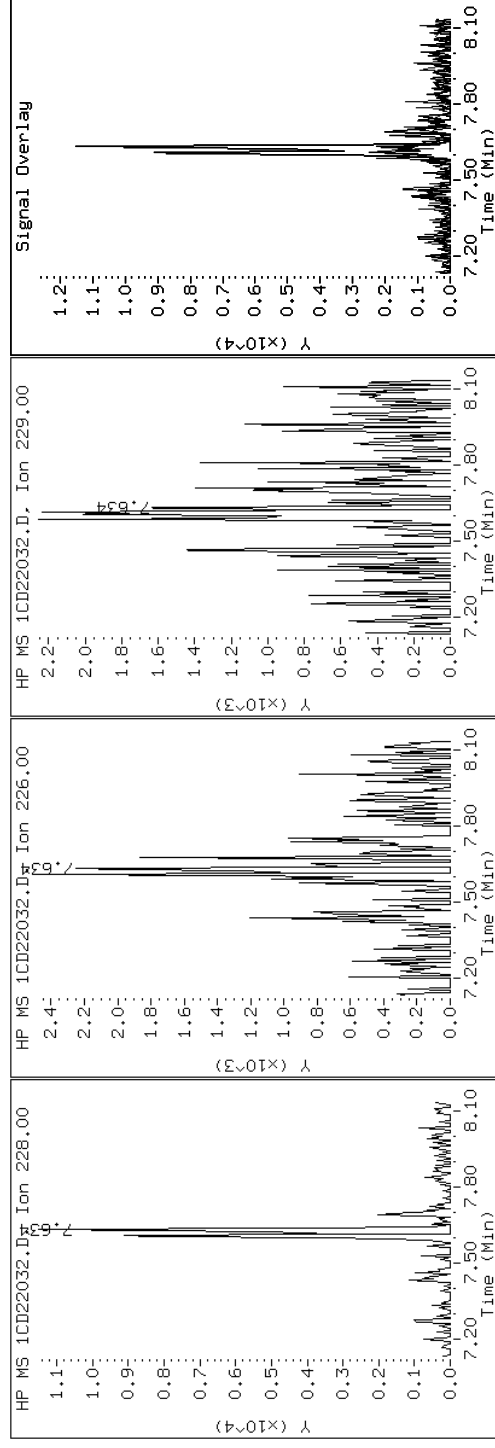
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

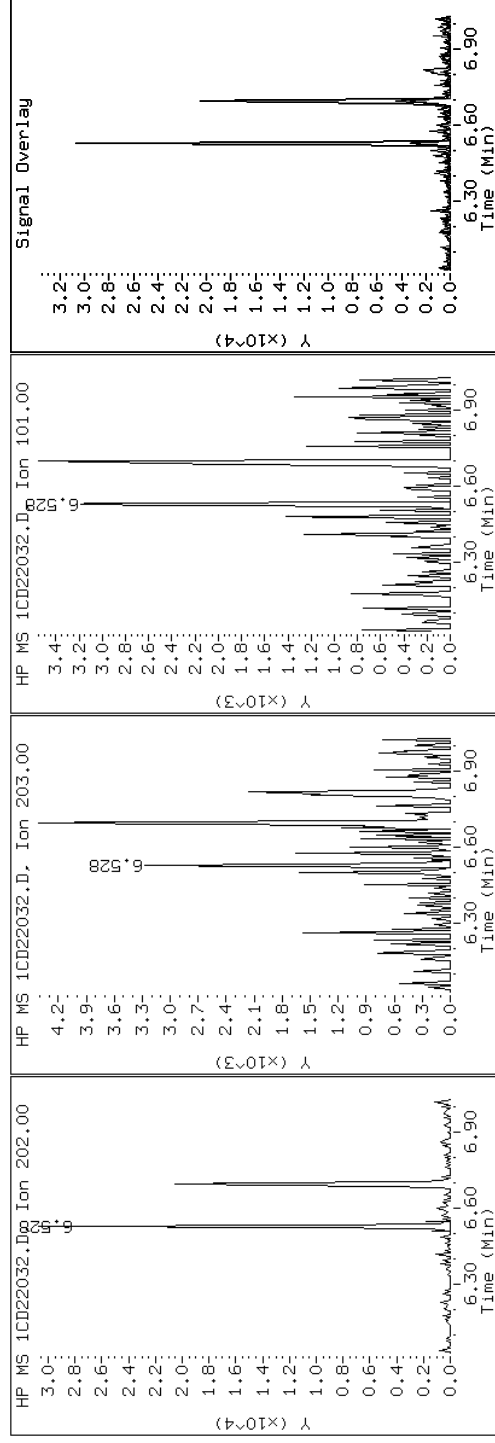
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

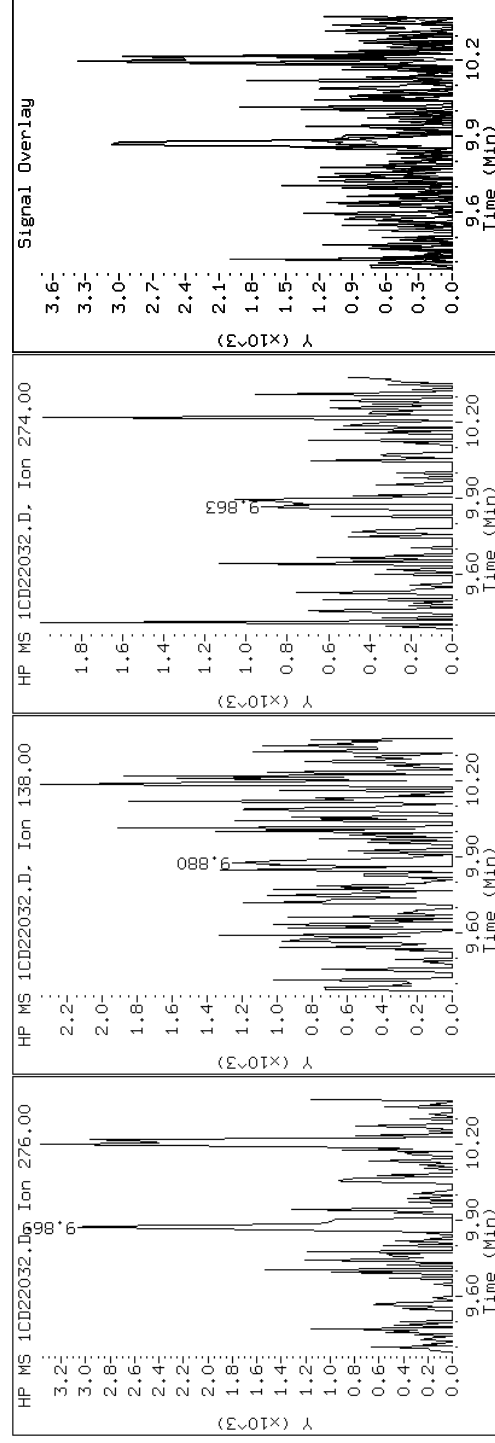
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

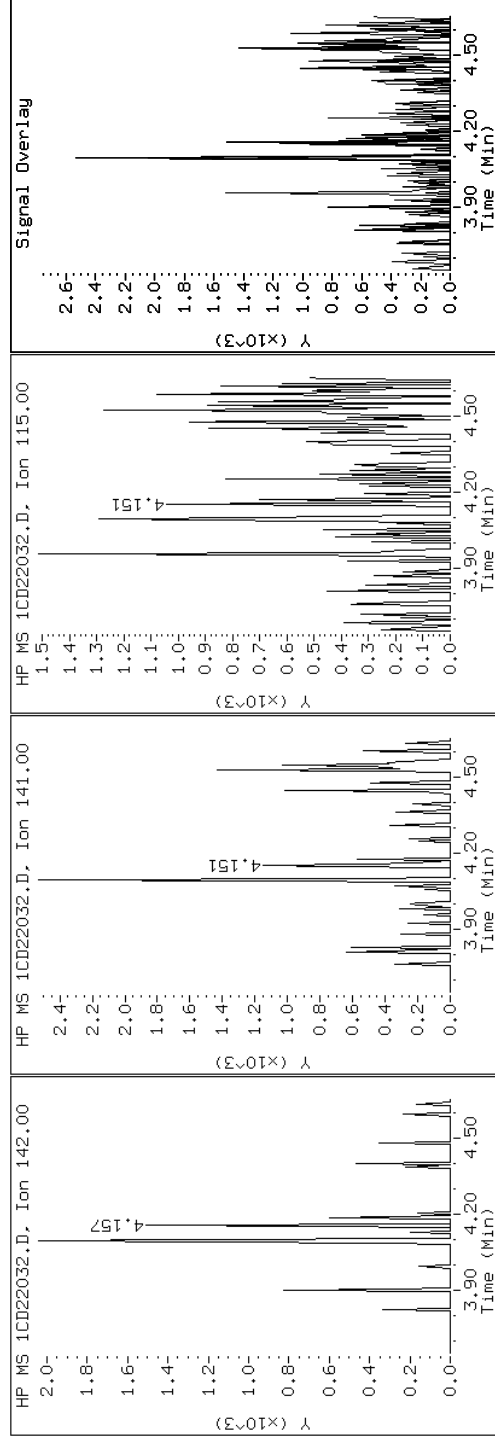
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

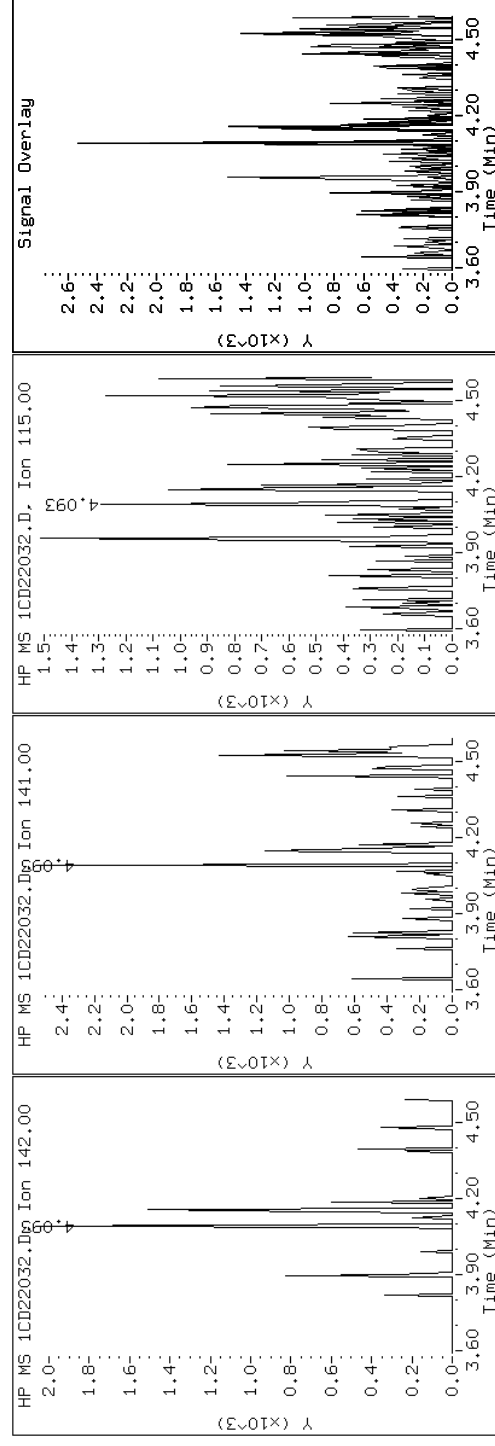
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

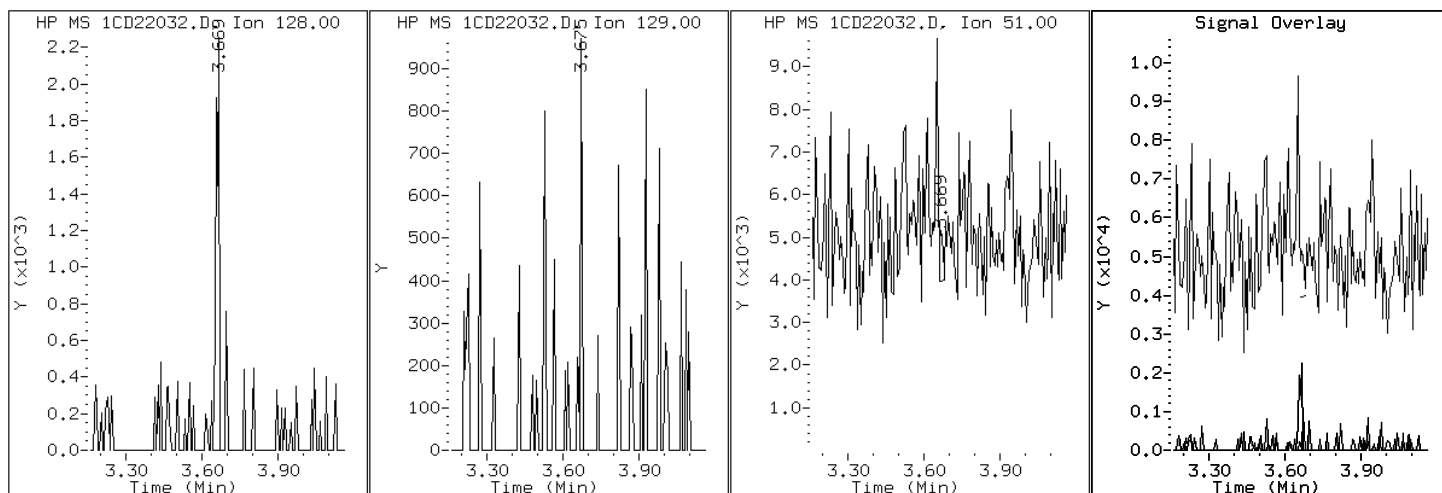
Client ID: FM0337A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

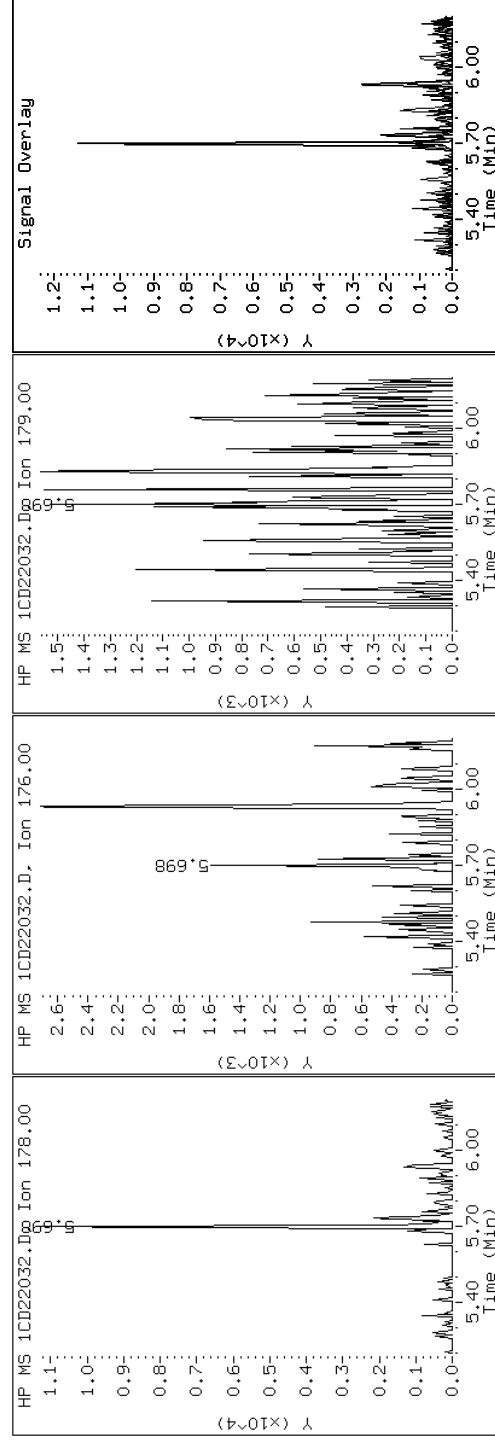
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22032.D

Date: 22-APR-2013 21:26

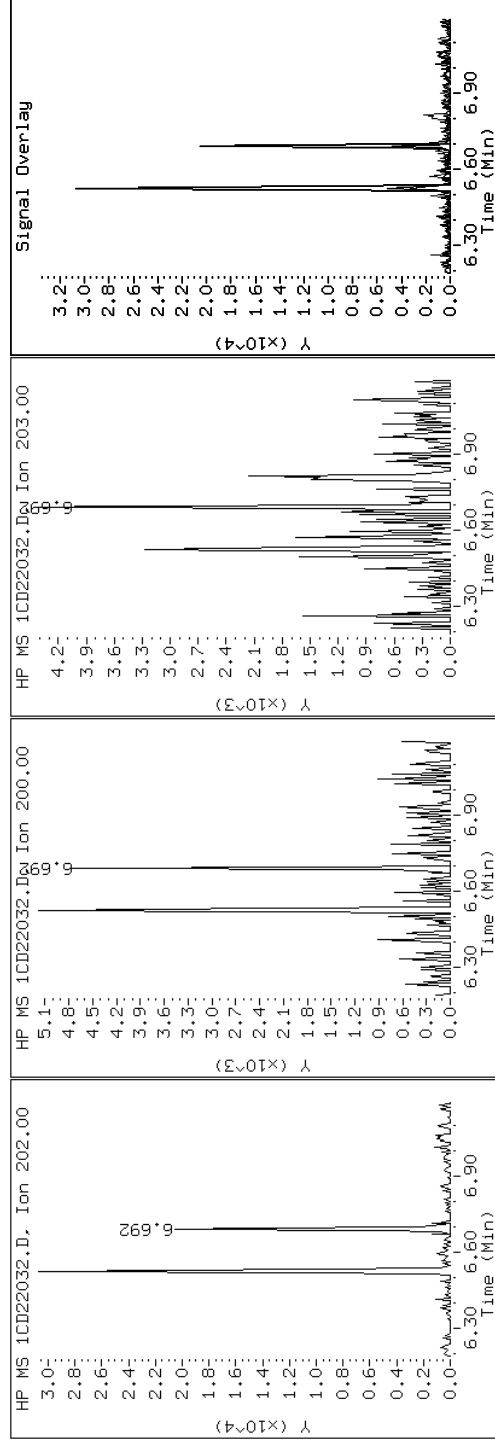
Client ID: FM0337A-CS

Sample Info: 680-89459-a-6-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

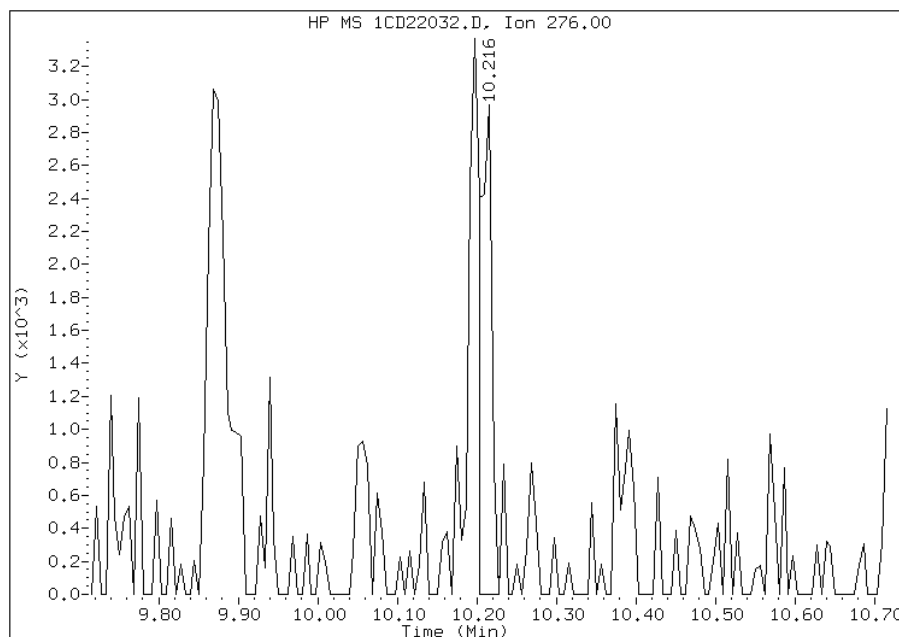


Manual Integration Report

Data File: 1CD22032.D
Inj. Date and Time: 22-APR-2013 21:26
Instrument ID: BSMC5973.i
Client ID: FM0337A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

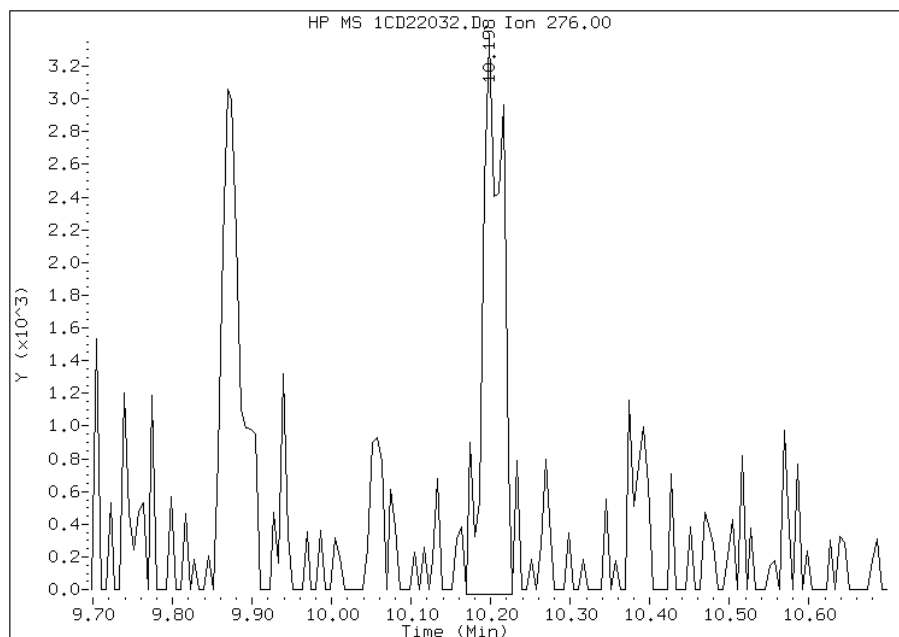
Processing Integration Results

RT: 10.22
Response: 3024
Amount: 0
Conc: 36



Manual Integration Results

RT: 10.20
Response: 5822
Amount: 1
Conc: 70



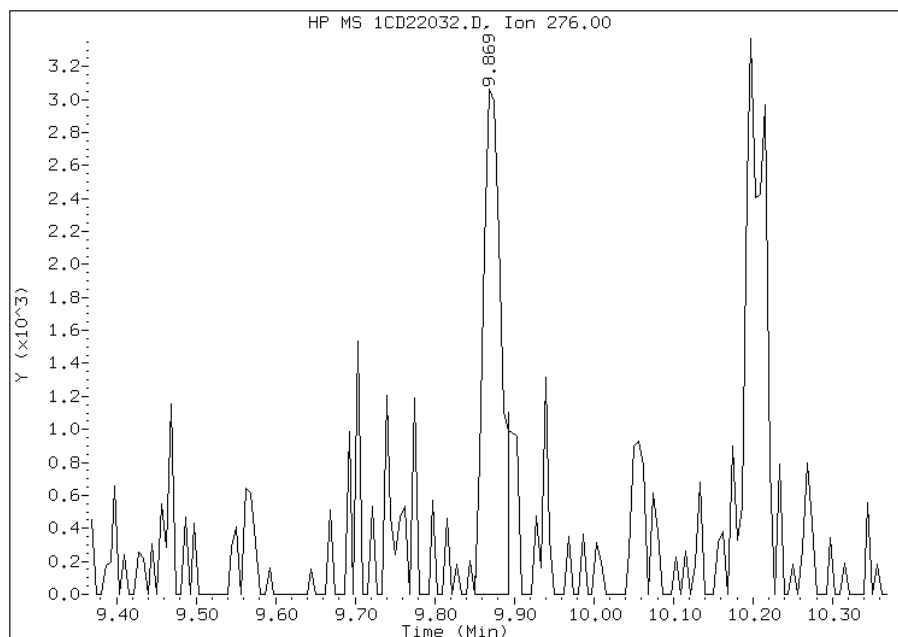
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22032.D
Inj. Date and Time: 22-APR-2013 21:26
Instrument ID: BSMC5973.i
Client ID: FM0337A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

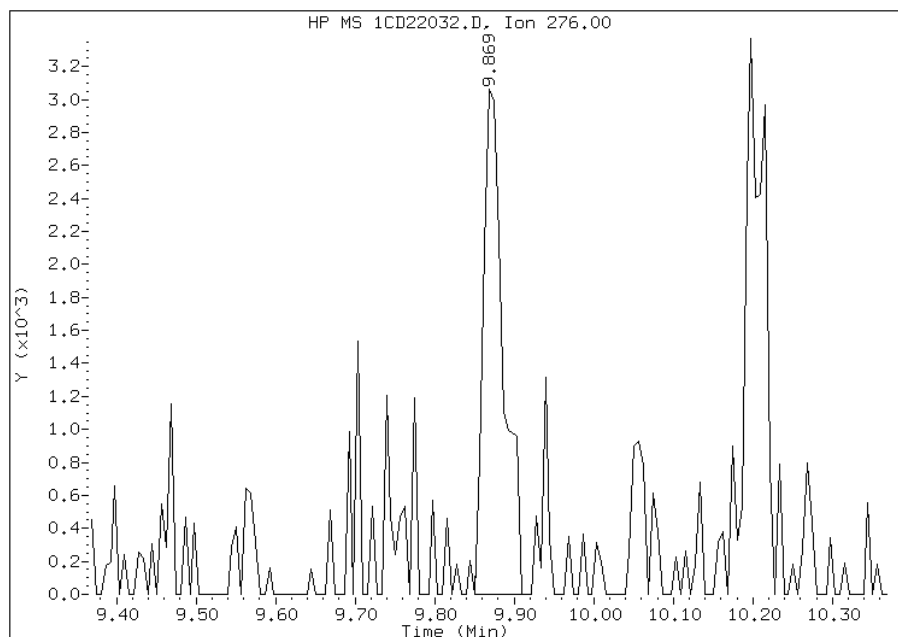
Processing Integration Results

RT: 9.87
Response: 4672
Amount: 1
Conc: 106



Manual Integration Results

RT: 9.87
Response: 5354
Amount: 1
Conc: 113



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 10:43
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0337B-CS</u>	Lab Sample ID: <u>680-89459-7</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22033.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.48(g)</u>	Date Analyzed: <u>04/22/2013 21:45</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>20.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	9.7	J	49	6.1
120-12-7	Anthracene	5.3	J	10	5.1
56-55-3	Benzo[a]anthracene	44		9.8	4.8
50-32-8	Benzo[a]pyrene	60		13	6.4
205-99-2	Benzo[b]fluoranthene	79		15	7.5
191-24-2	Benzo[g,h,i]perylene	30		25	5.4
207-08-9	Benzo[k]fluoranthene	41		9.8	4.4
218-01-9	Chrysene	54		11	5.5
53-70-3	Dibenz(a,h)anthracene	25	U	25	5.0
206-44-0	Fluoranthene	93		25	4.9
86-73-7	Fluorene	10	J	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	91		25	8.7
90-12-0	1-Methylnaphthalene	14	J	49	5.4
91-57-6	2-Methylnaphthalene	36	J	49	8.7
91-20-3	Naphthalene	10	J	49	5.4
85-01-8	Phenanthrene	47		9.8	4.8
129-00-0	Pyrene	57		25	4.5

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\1C042213.b\1CD22033.D
Lab Smp Id: 680-89459-A-7-A Client Smp ID: FM0337B-CS
Inj Date : 22-APR-2013 21:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-7-a
Misc Info : 680-89459-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.480	Weight Extracted
M	20.914	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.651	3.651	(1.000)		215362	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		145882	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		280801	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		24468	5.95165	486.1455
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		308964	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		267444	40.0000	
2 Naphthalene	128		3.668	3.663	(1.005)		725	0.12454	10.1724(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		648	0.43915	35.8708(Q)
4 1-Methylnaphthalene	142		4.157	4.151	(1.139)		633	0.17023	13.9044(Q)
5 Acenaphthylene	152		4.657	4.651	(0.983)		732	0.11842	9.6725
9 Fluorene	166		5.074	5.080	(1.071)		598	0.12614	10.3036(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		4729	0.58087	47.4471
12 Anthracene	178		5.739	5.733	(1.010)		525	0.06440	5.2604(Q)
13 Carbazole	167		5.839	5.839	(1.028)		694	0.09141	7.4664(Q)

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====		=====	=====
15 Fluoranthene	202	6.527	6.527	(1.149)	10348		1.13599	92.7903
16 Pyrene	202	6.692	6.692	(0.879)	6141		0.69866	57.0681
17 Benzo(a)anthracene	228	7.609	7.603	(0.999)	4720		0.54024	44.1279
19 Chrysene	228	7.633	7.633	(1.002)	5661		0.65498	53.5006
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	6505		0.96300	78.6599(Q)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	3827		0.50068	40.8968(Q)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	5115		0.73255	59.8361
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	3284		1.11282	90.8976
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	2419		0.36961	30.1907(QM)

QC Flag Legend

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

Data File: 1CD22033.D

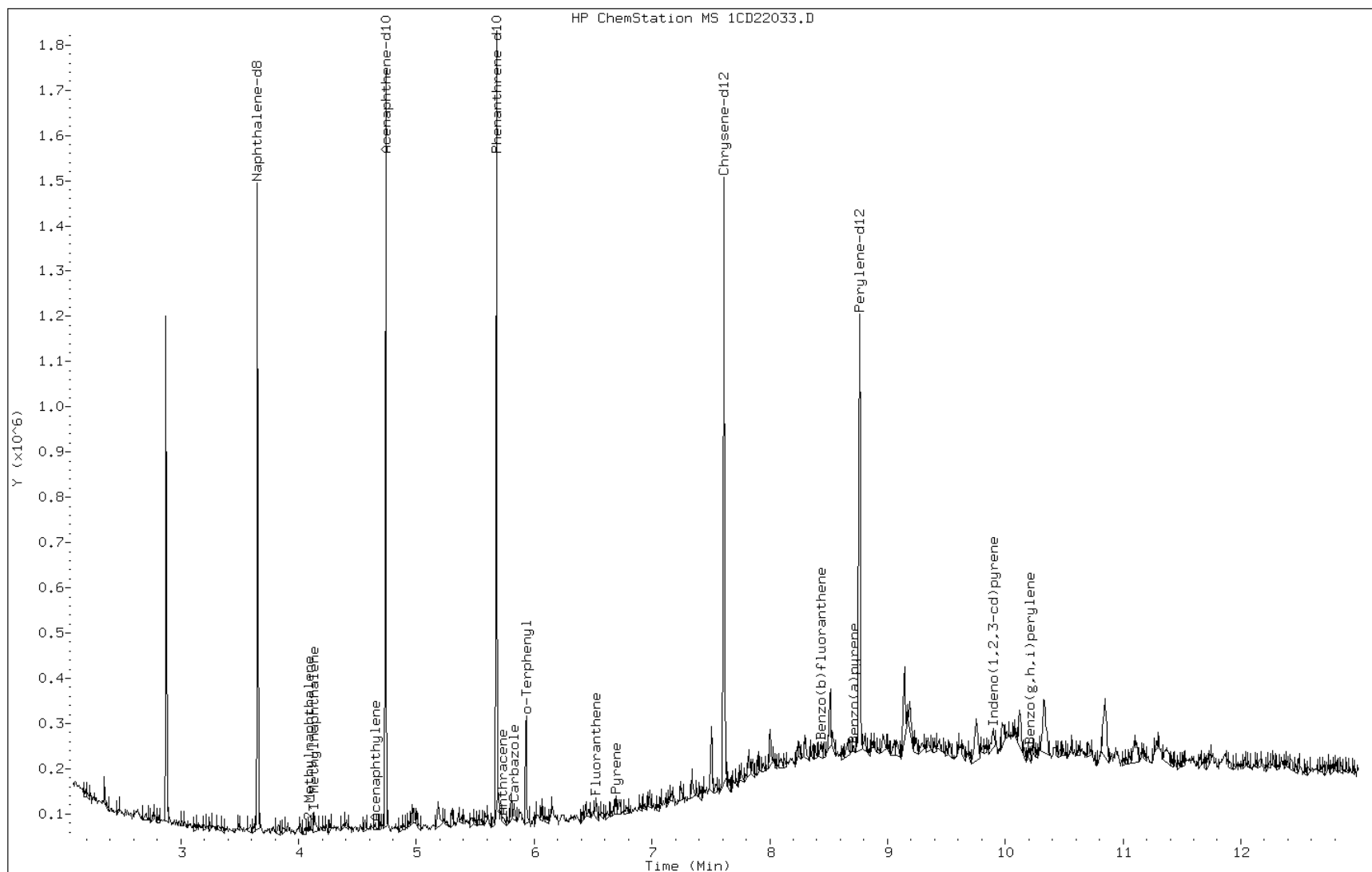
Date: 22-APR-2013 21:45

Client ID: FM0337B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-7-a

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

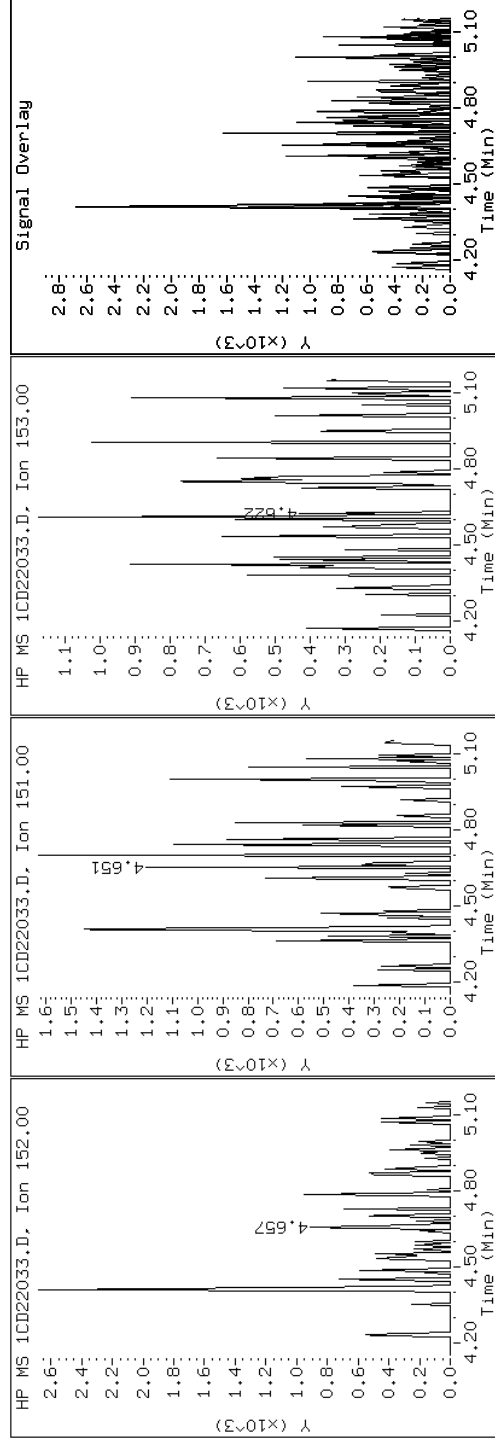
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

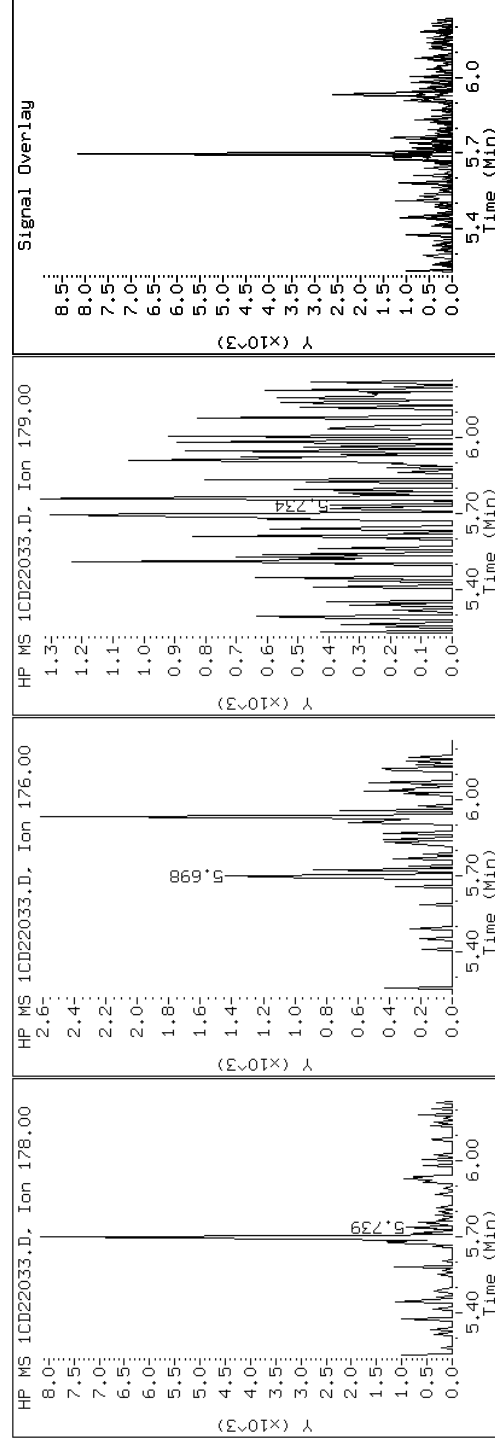
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

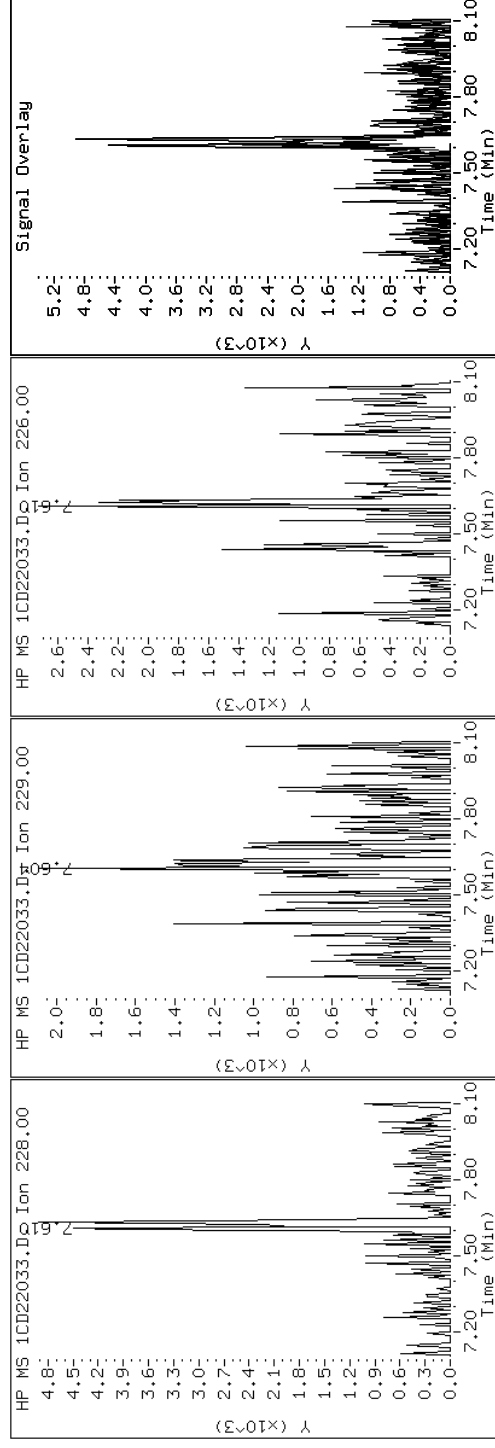
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

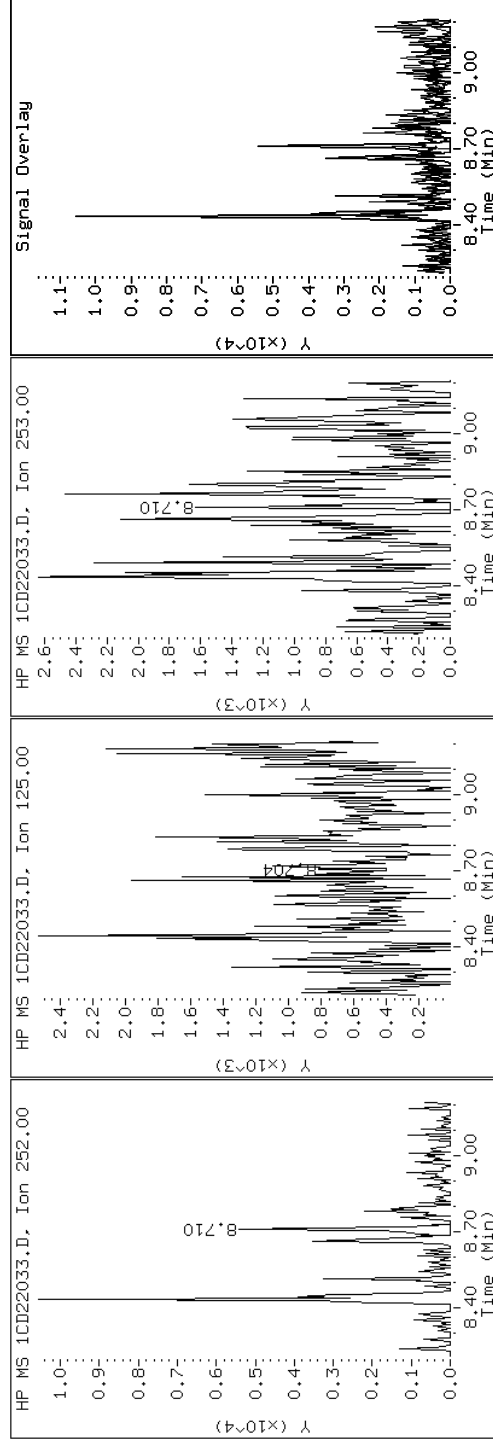
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

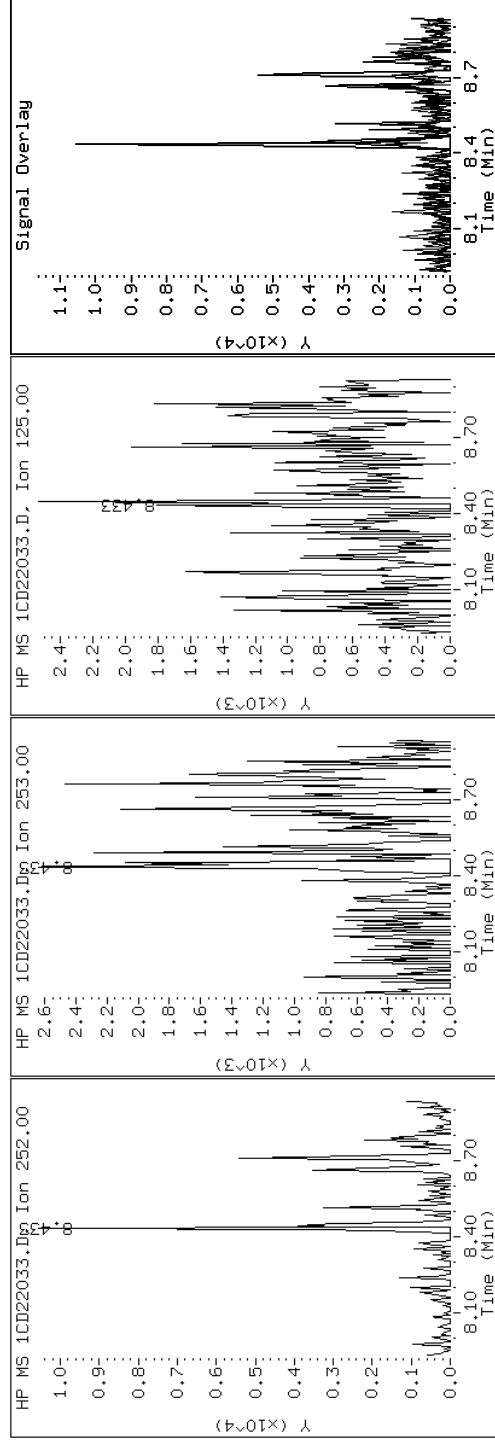
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

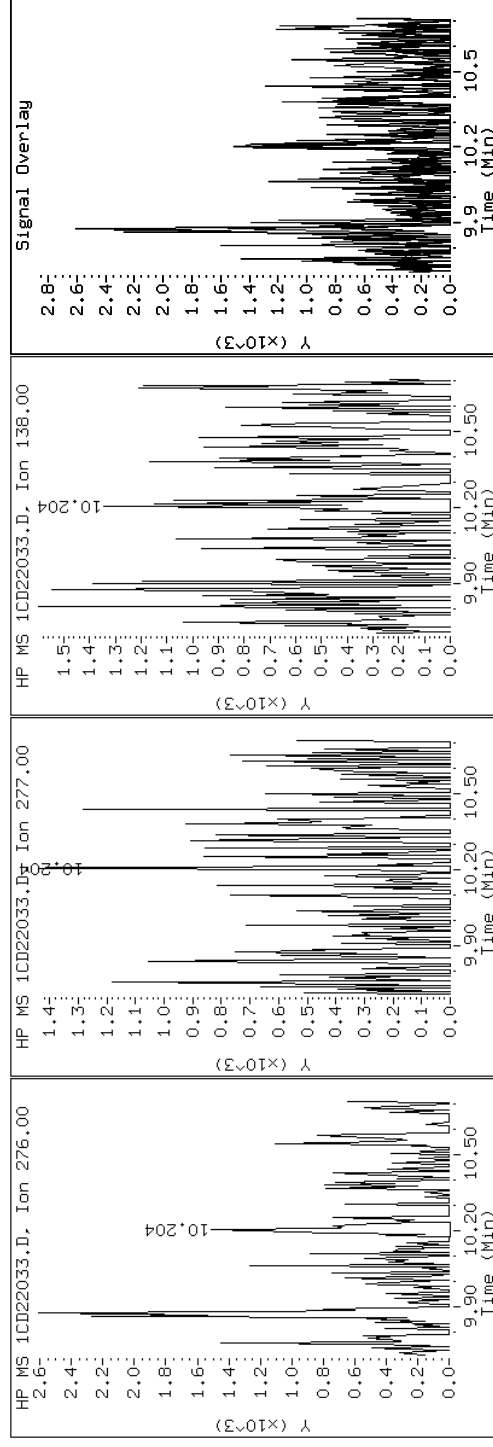
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

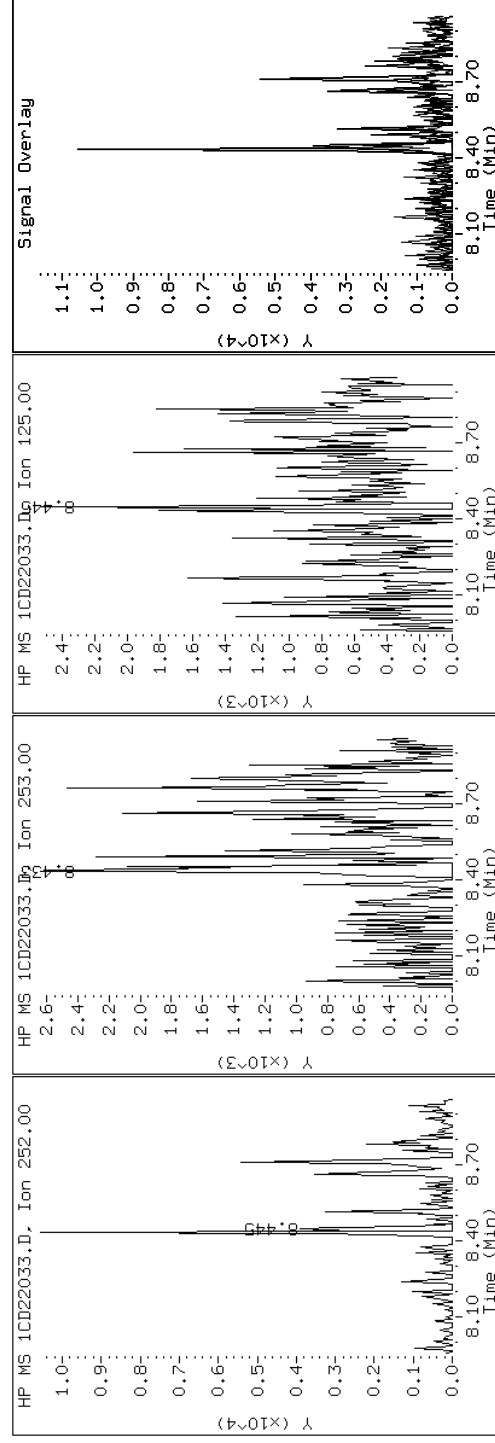
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

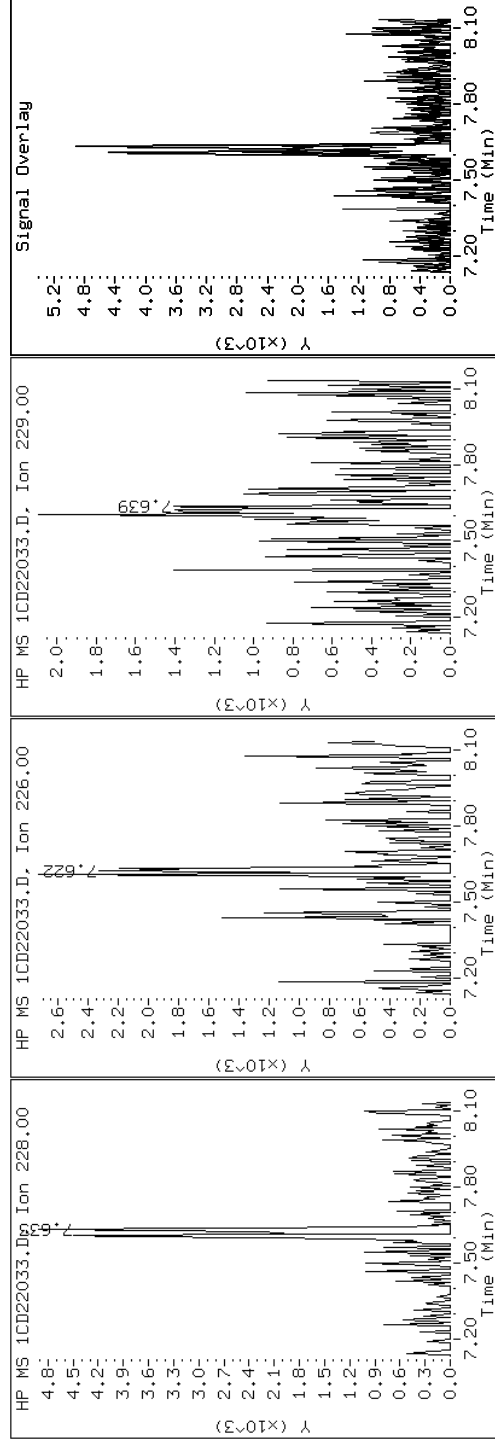
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

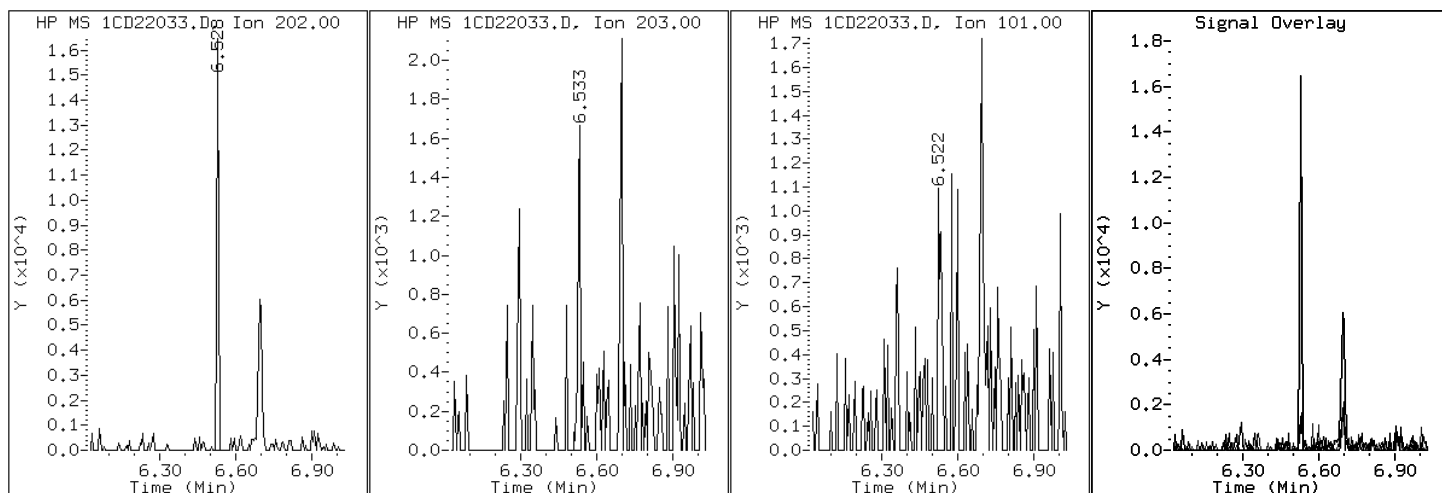
Client ID: FM0337B-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

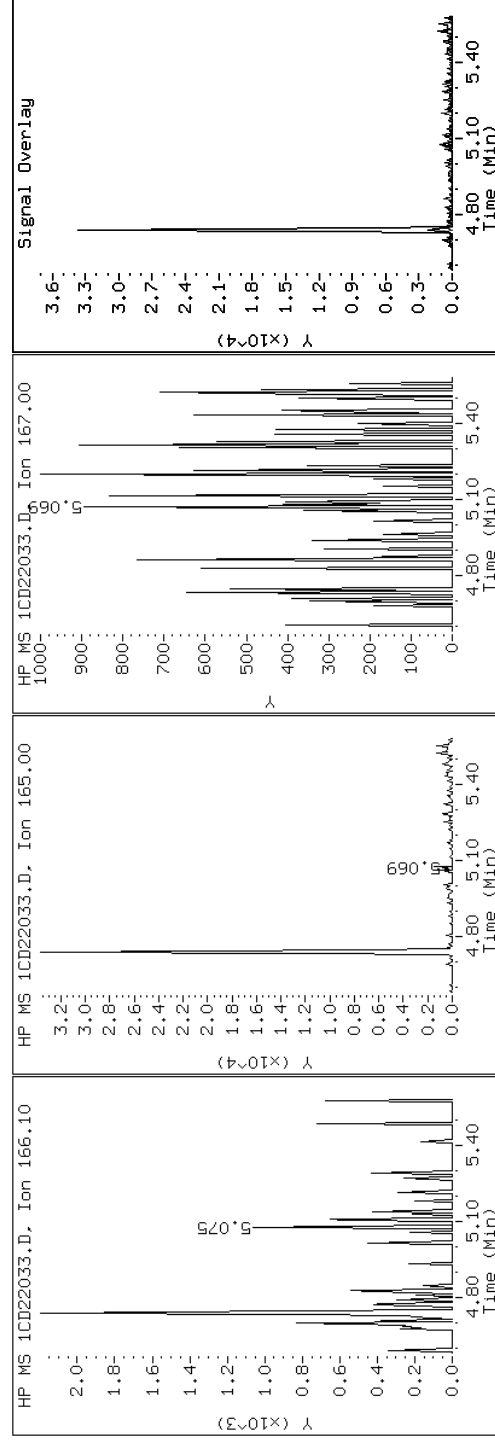
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

9 Fluorene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

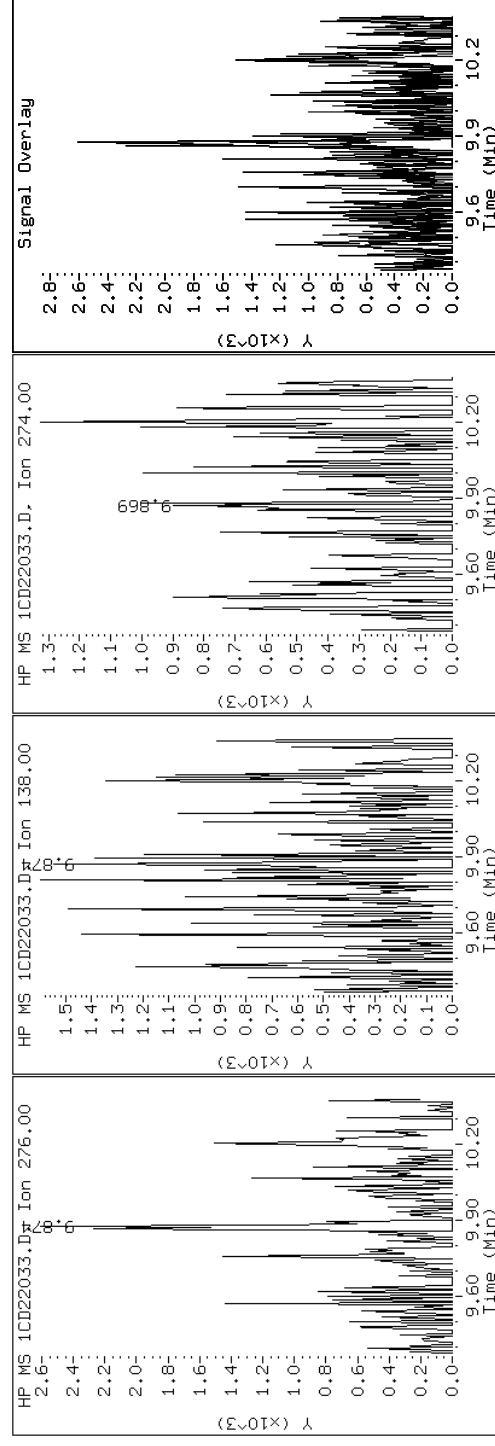
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

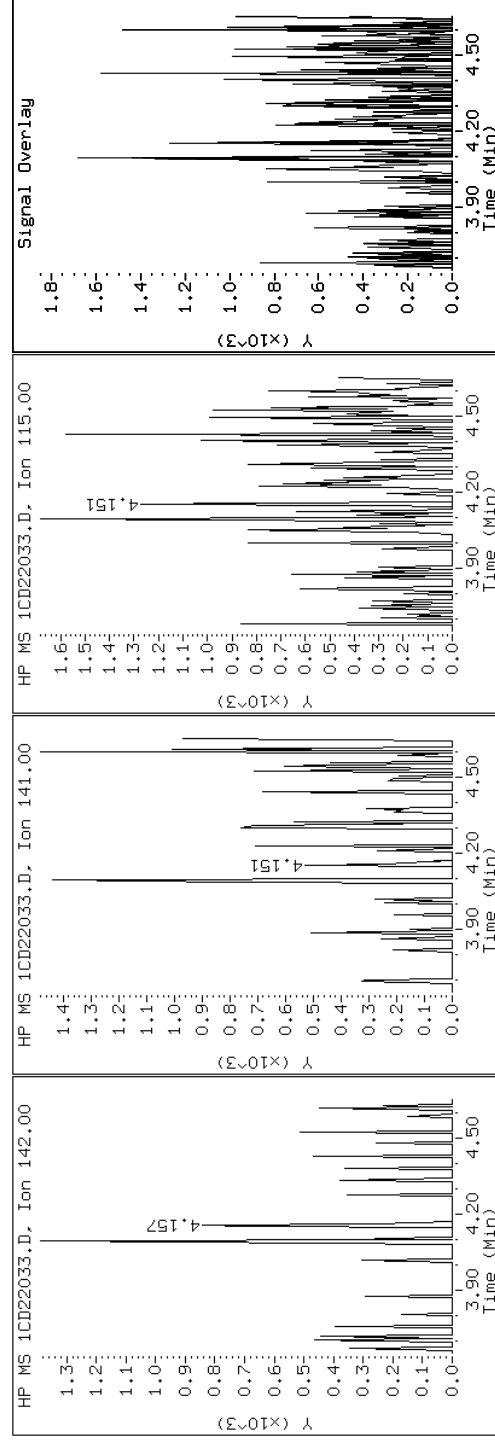
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

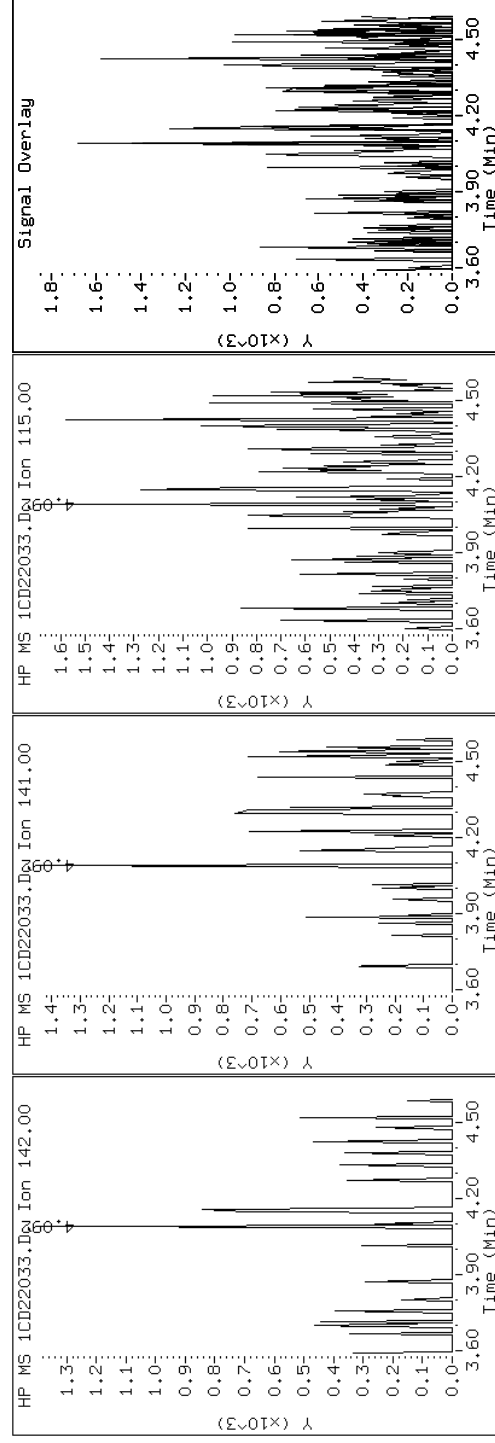
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

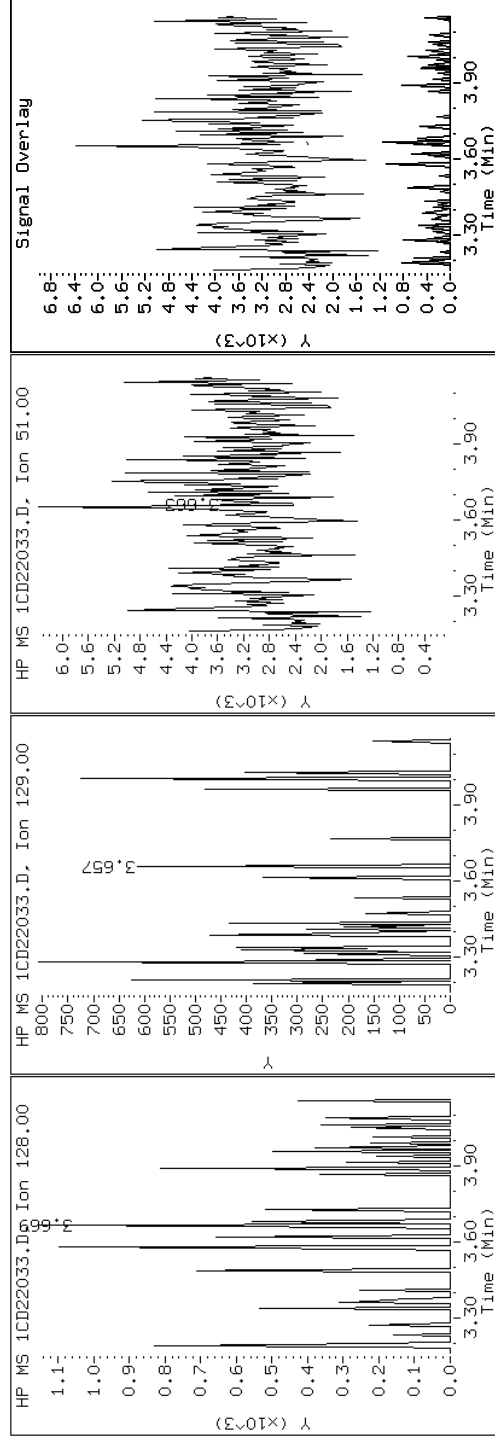
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

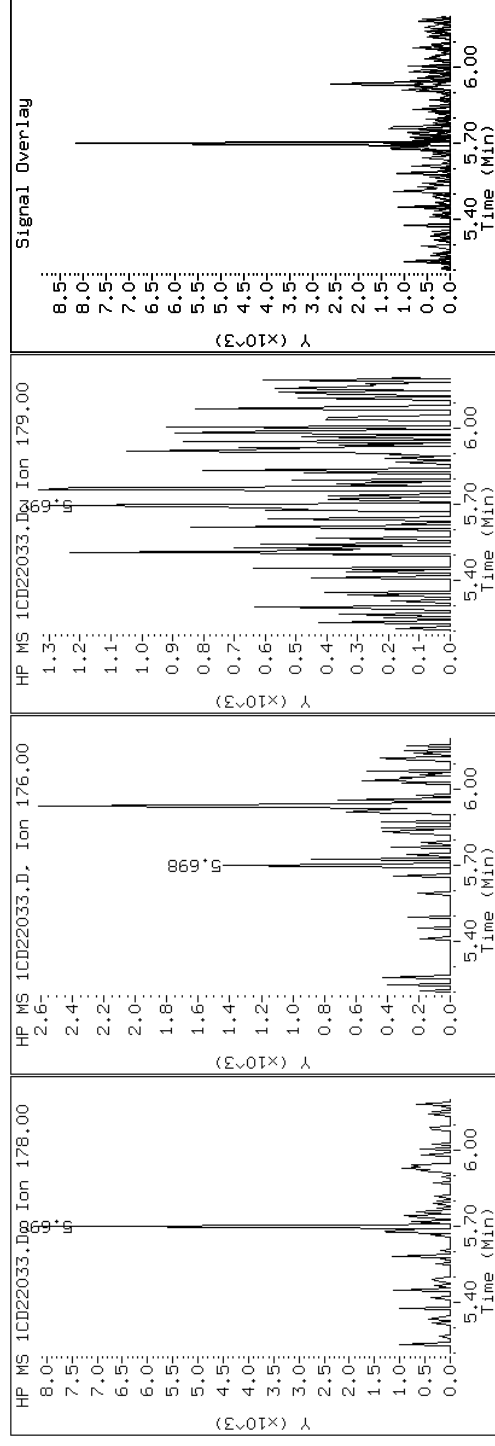
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22033.D

Date: 22-APR-2013 21:45

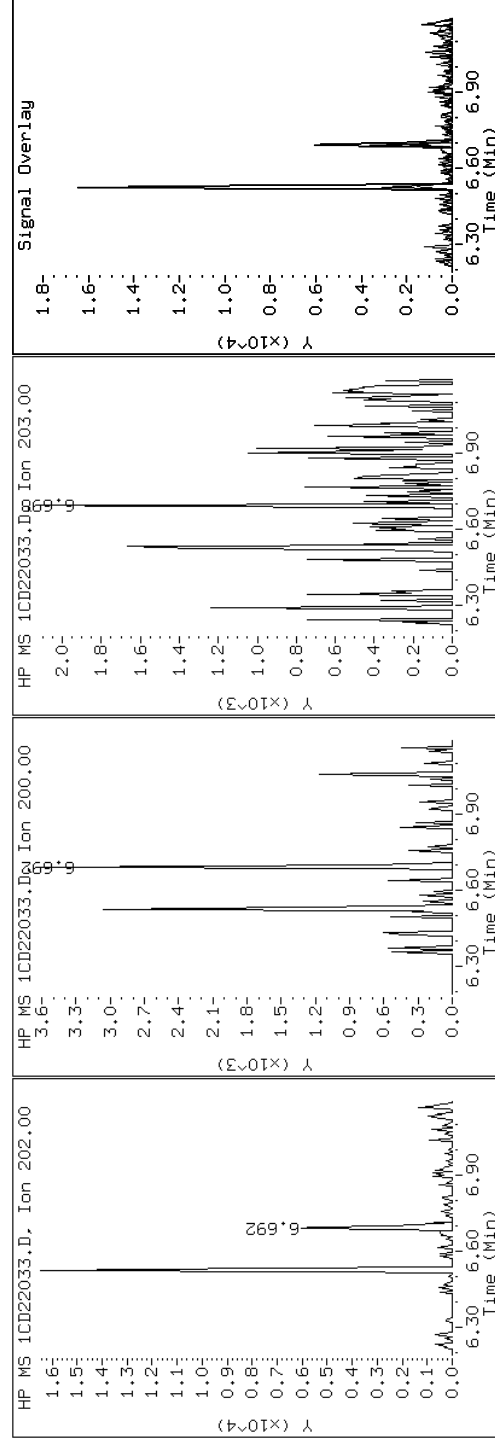
Client ID: FM0337B-CS

Sample Info: 680-89459-a-7-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

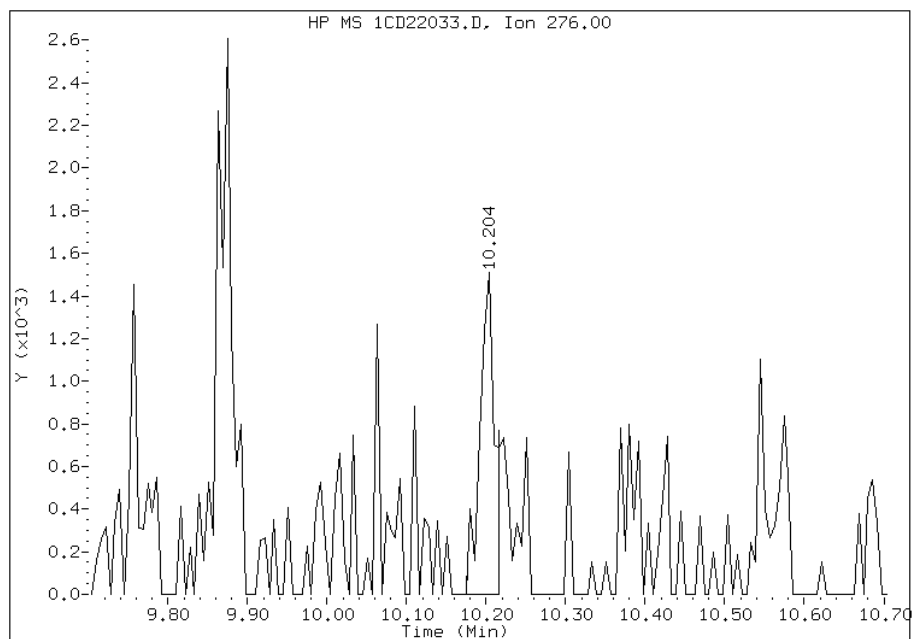


Manual Integration Report

Data File: 1CD22033.D
Inj. Date and Time: 22-APR-2013 21:45
Instrument ID: BSMC5973.i
Client ID: FM0337B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

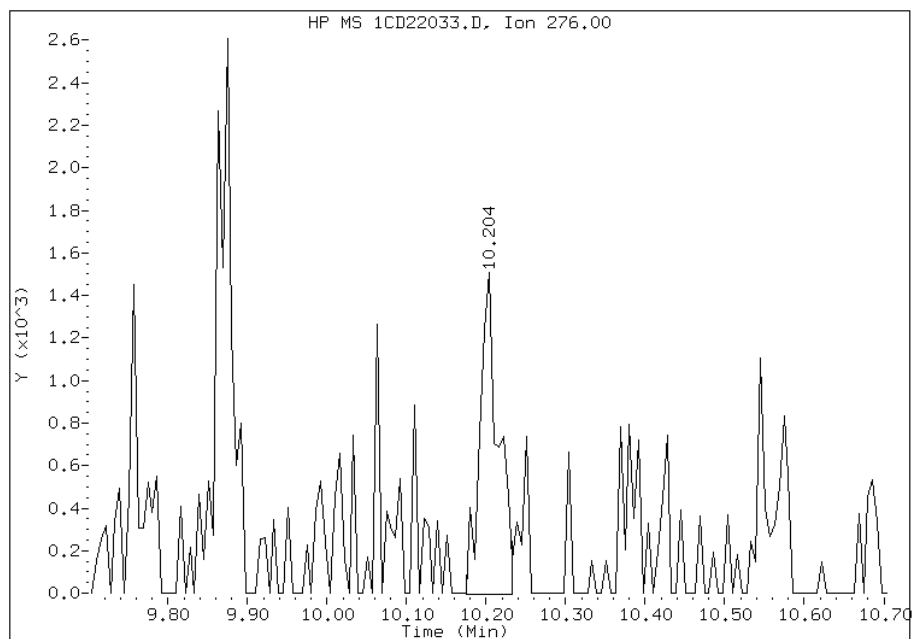
Processing Integration Results

RT: 10.20
Response: 1922
Amount: 0
Conc: 24



Manual Integration Results

RT: 10.20
Response: 2419
Amount: 0
Conc: 30



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 11:07
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0337B-CSD</u>	Lab Sample ID: <u>680-89459-8</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22034.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.94(g)</u>	Date Analyzed: <u>04/22/2013 22:03</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>22.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</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	11	U	11	5.4
56-55-3	Benzo[a]anthracene	61		10	5.1
50-32-8	Benzo[a]pyrene	44		13	6.7
205-99-2	Benzo[b]fluoranthene	90		16	7.9
191-24-2	Benzo[g,h,i]perylene	53		26	5.7
207-08-9	Benzo[k]fluoranthene	33		10	4.7
218-01-9	Chrysene	48		12	5.8
53-70-3	Dibenz(a,h)anthracene	26	U	26	5.3
206-44-0	Fluoranthene	73		26	5.2
86-73-7	Fluorene	11	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	26	U	26	9.2
90-12-0	1-Methylnaphthalene	52	U	52	5.7
91-57-6	2-Methylnaphthalene	52	U	52	9.2
91-20-3	Naphthalene	9.4	J	52	5.7
85-01-8	Phenanthrene	49		10	5.1
129-00-0	Pyrene	76		26	4.8

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\1C042213.b\1CD22034.D
Lab Smp Id: 680-89459-A-8-A Client Smp ID: FM0337B-CSD
Inj Date : 22-APR-2013 22:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-8-a
Misc Info : 680-89459-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22034.D
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	22.535	% 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		3.651	3.651	(1.000)		228352	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		151210	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		271384	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		25007	6.25418	540.4001
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		306952	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		286518	40.0000	
2 Naphthalene	128		3.669	3.663	(1.005)		668	0.10822	9.3507(Q)
9 Fluorene	166		5.074	5.080	(1.071)		624	0.12699	10.9726(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		4444	0.56503	48.8222
15 Fluoranthene	202		6.527	6.527	(1.149)		7453	0.84657	73.1489
16 Pyrene	202		6.692	6.692	(0.879)		7680	0.87948	75.9922
17 Benzo(a)anthracene	228		7.610	7.603	(0.999)		6150	0.70853	61.2210
19 Chrysene	228		7.633	7.633	(1.002)		4770	0.55551	47.9996
20 Benzo(b)fluoranthene	252		8.433	8.433	(0.962)		7549	1.04315	90.1349(M)

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/mL)	(ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	3121	0.38113	32.9322(QM)	
22 Benzo(a)pyrene	252	8.710	8.709	(0.994)	3851	0.51481	44.4824	
26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	4266	0.60843	52.5721	

QC Flag Legend

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

Data File: 1CD22034.D

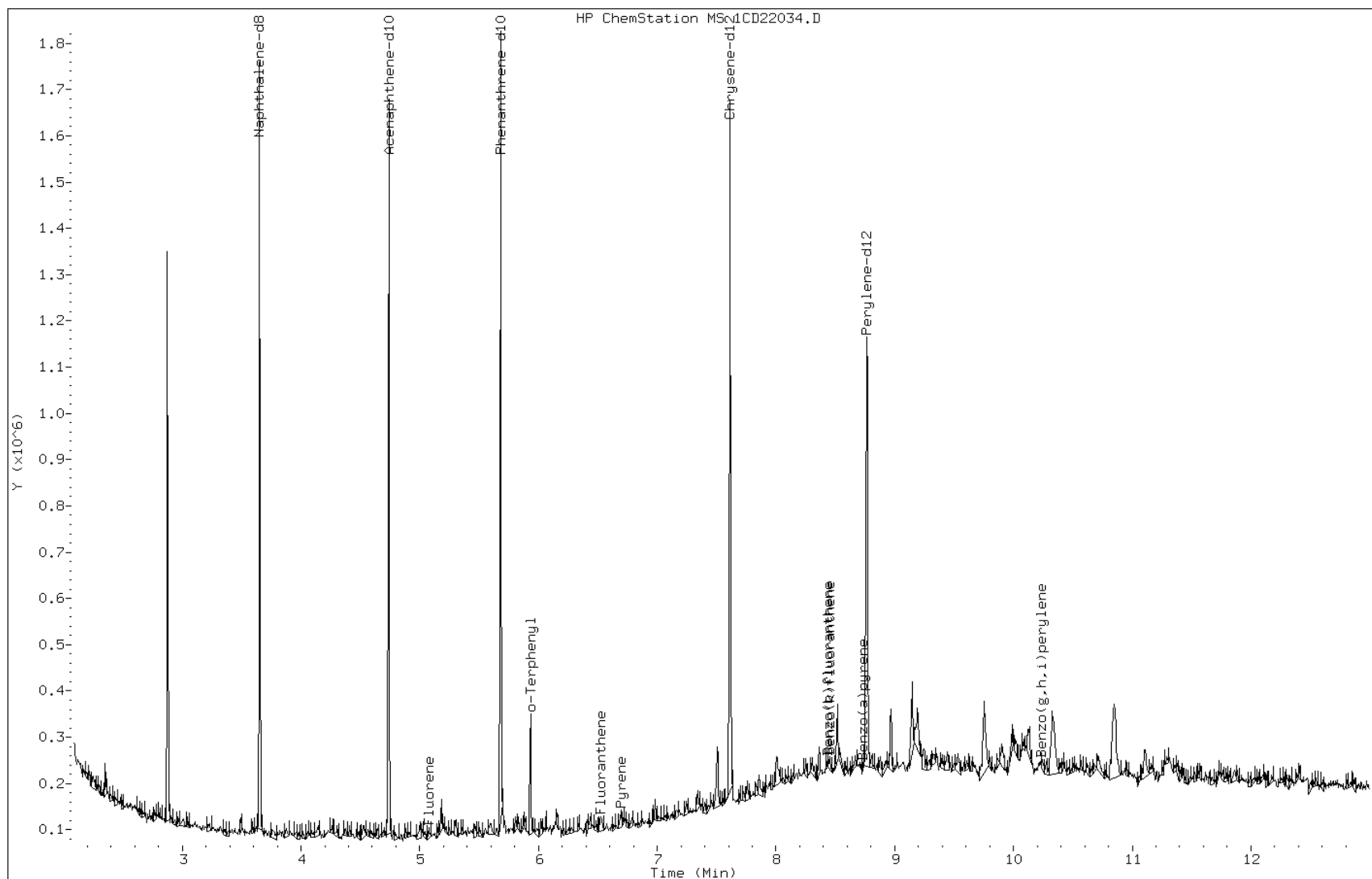
Date: 22-APR-2013 22:03

Client ID: FM0337B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89459-a-8-a

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

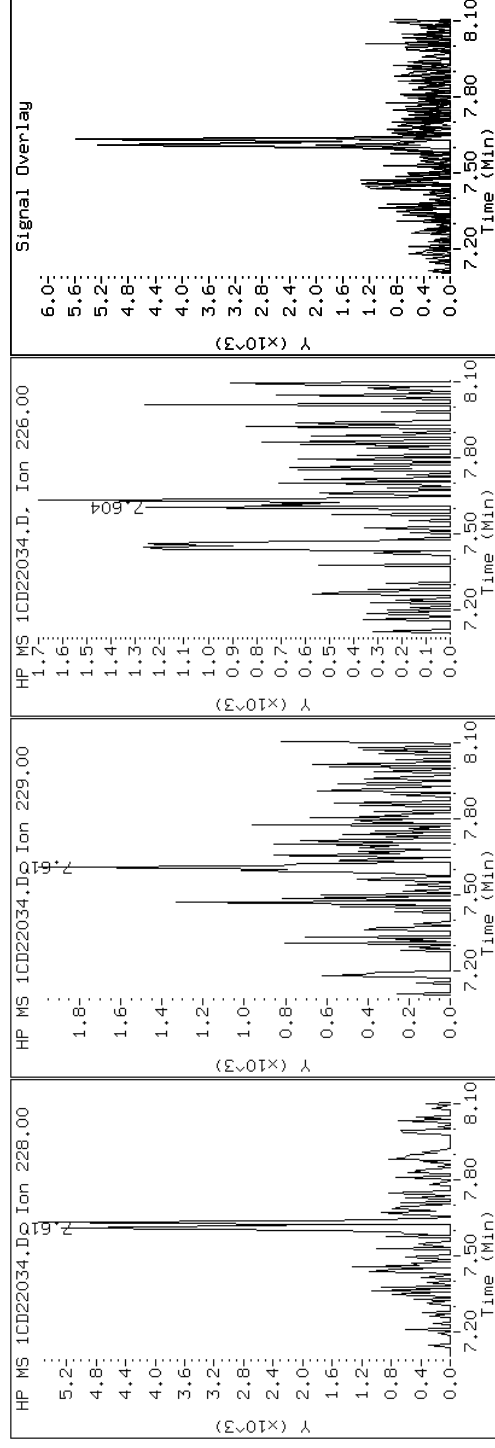
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

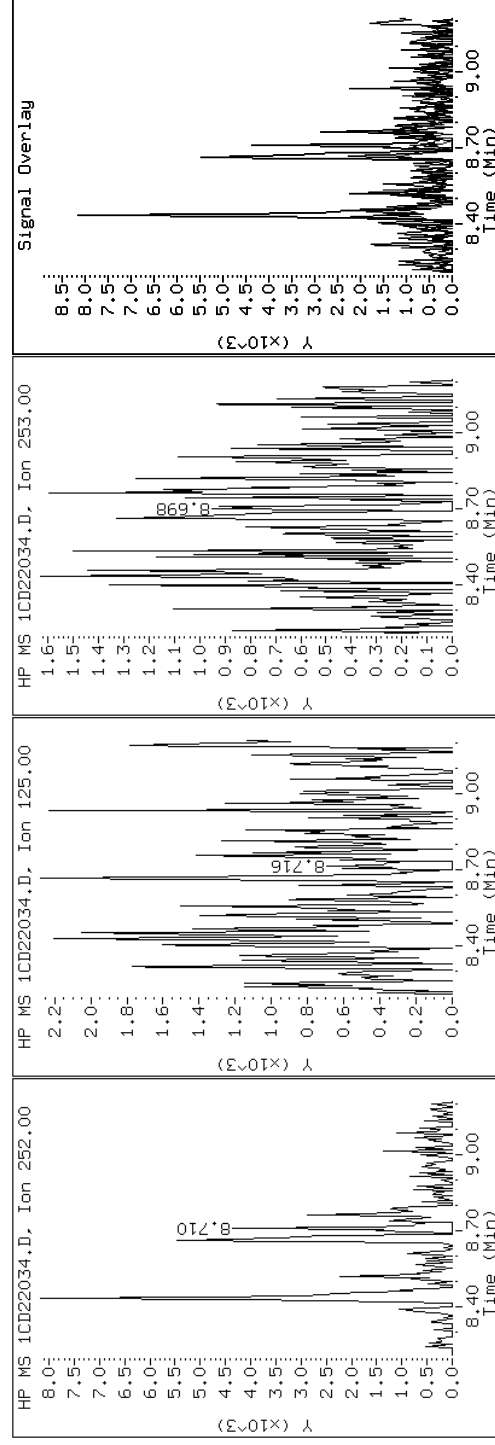
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

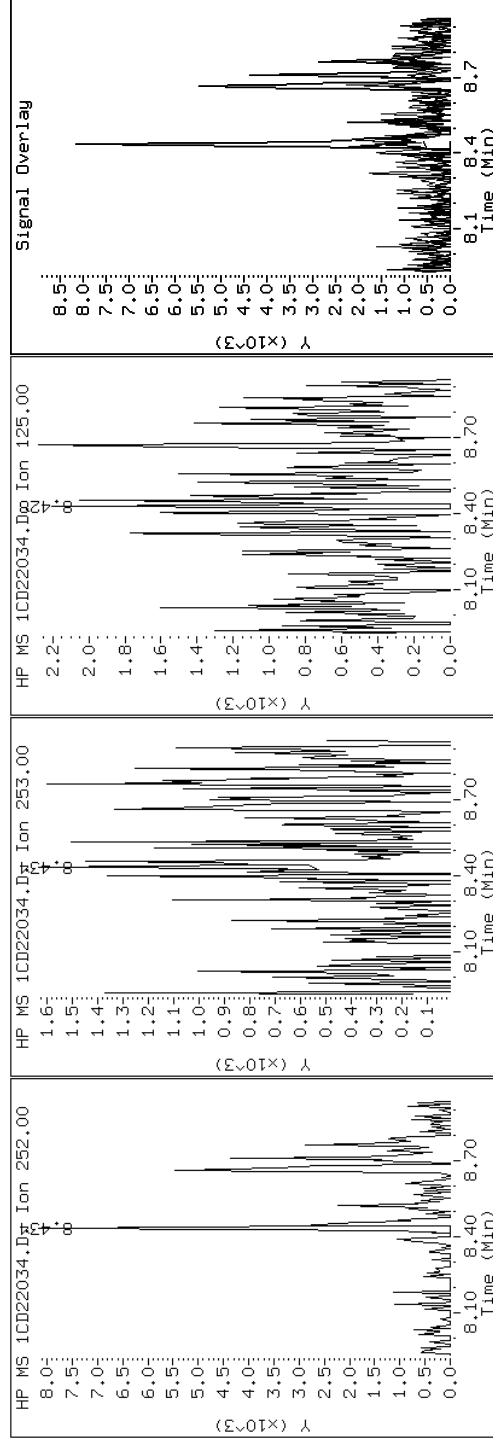
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

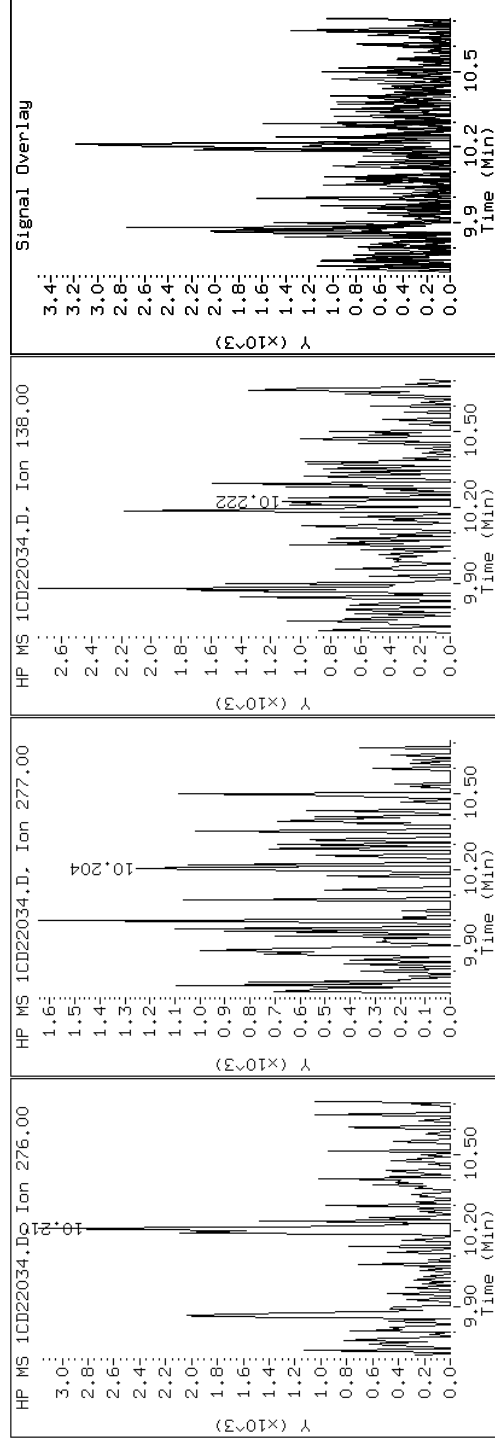
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

26 Benzo(g,h,i)perylene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

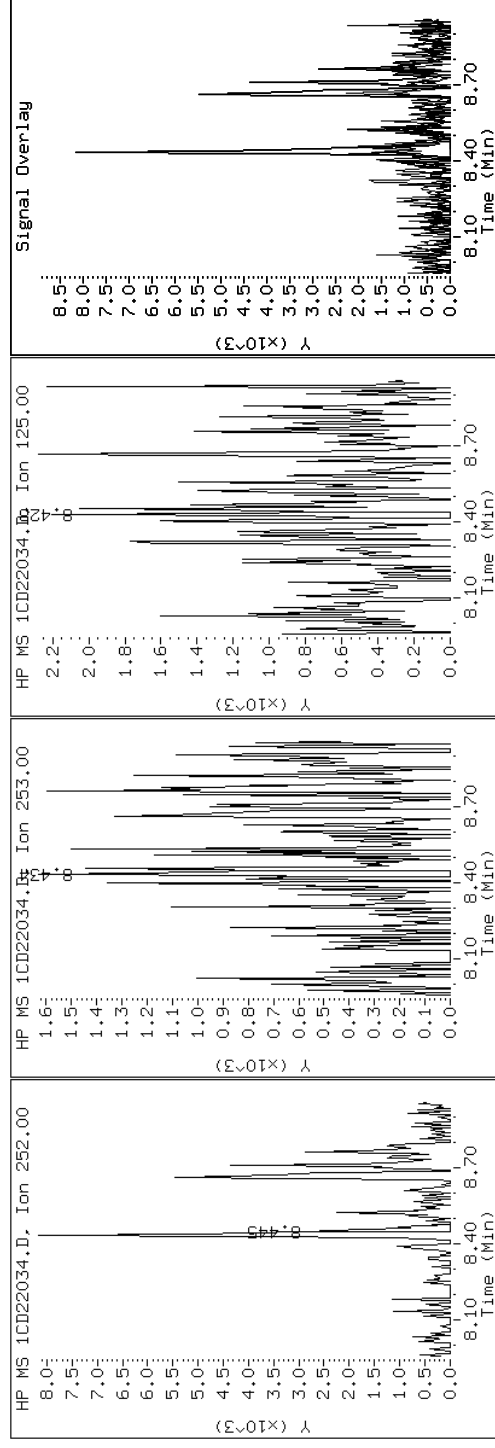
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

21 Benzo(k)fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

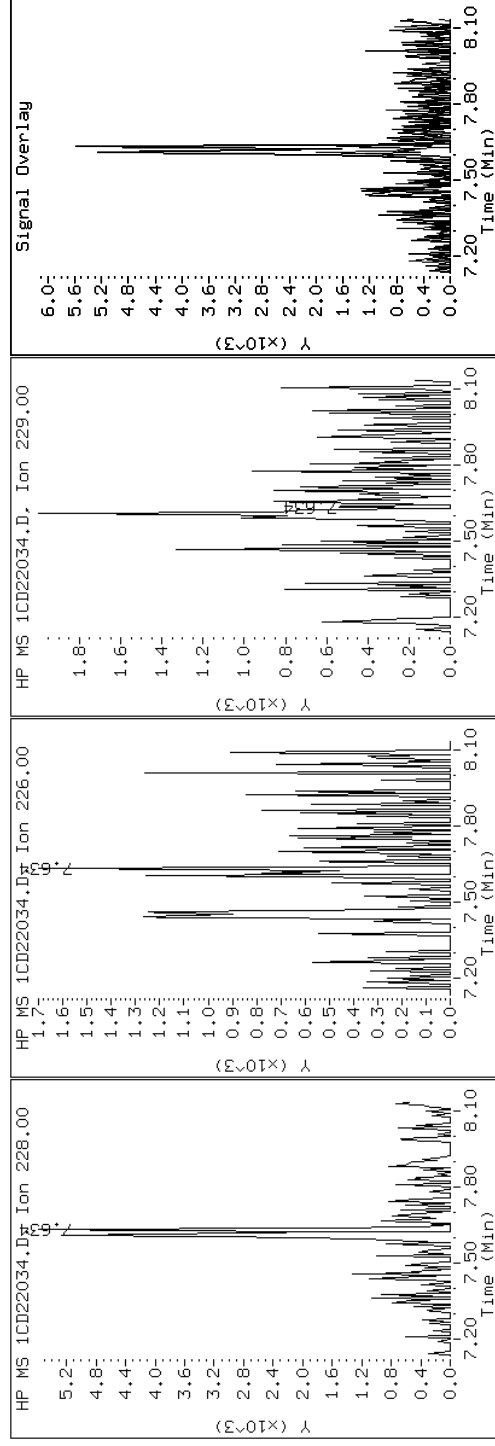
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

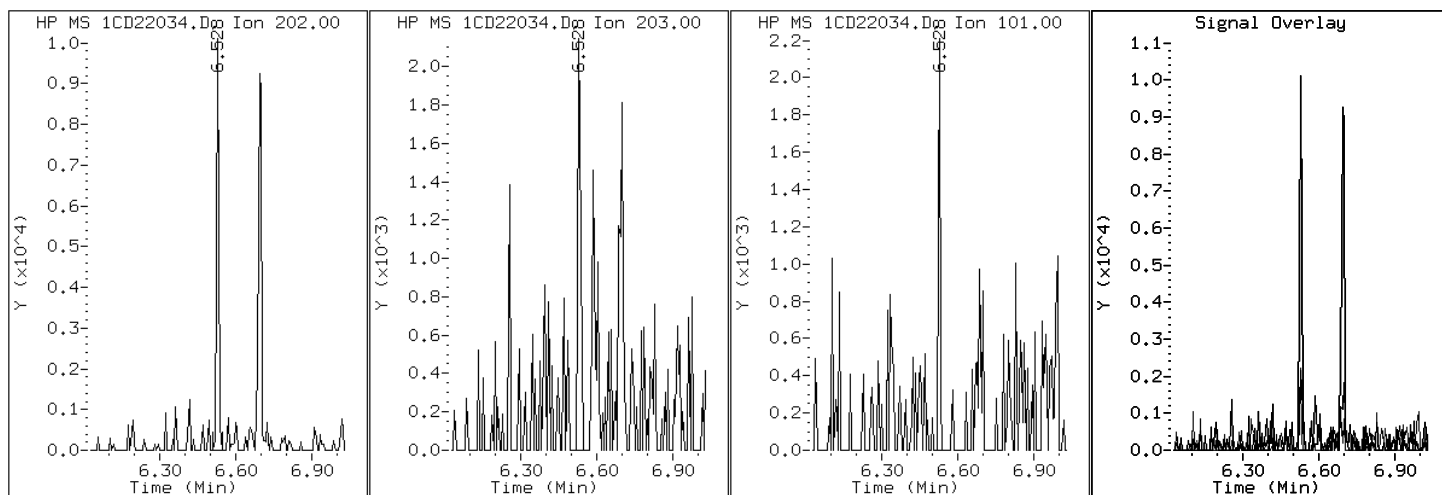
Client ID: FM0337B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89459-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

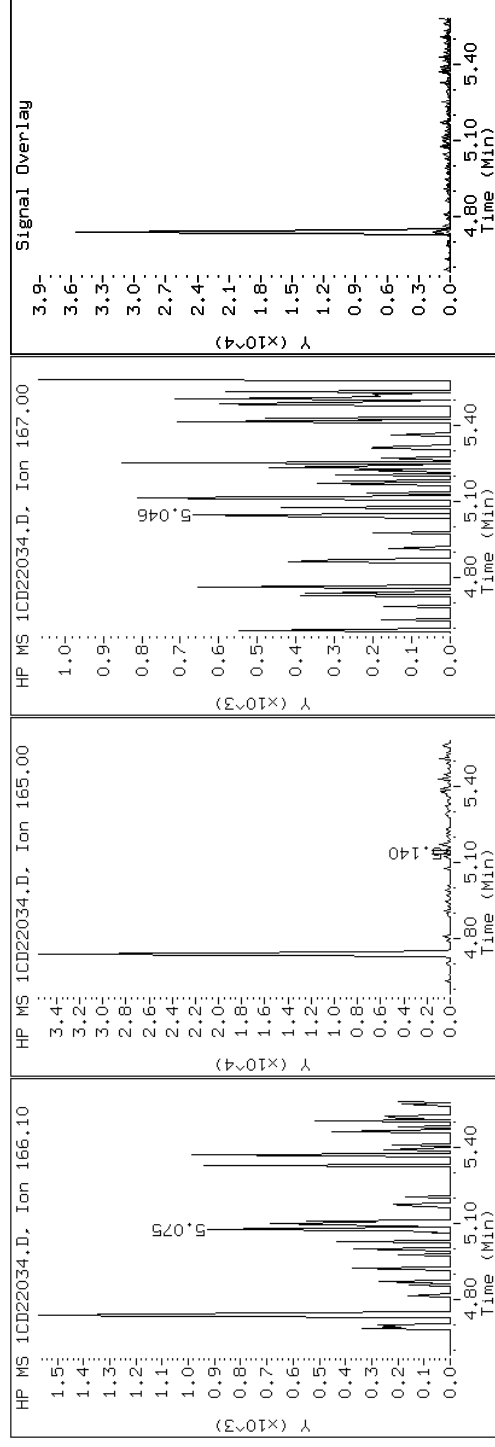
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

9 Fluorene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

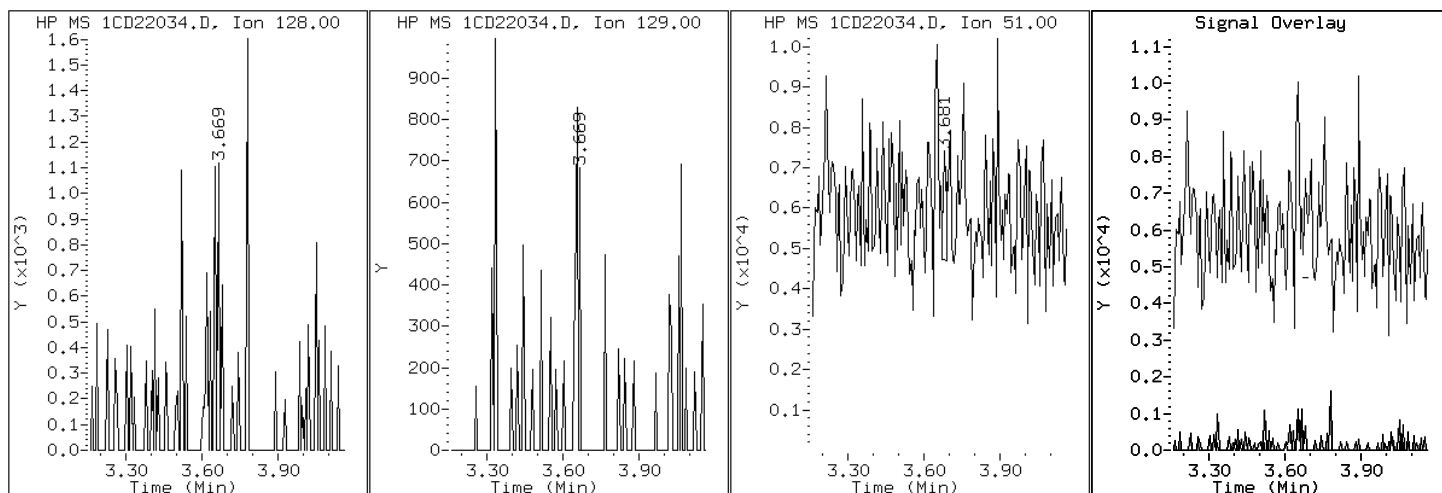
Client ID: FM0337B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89459-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

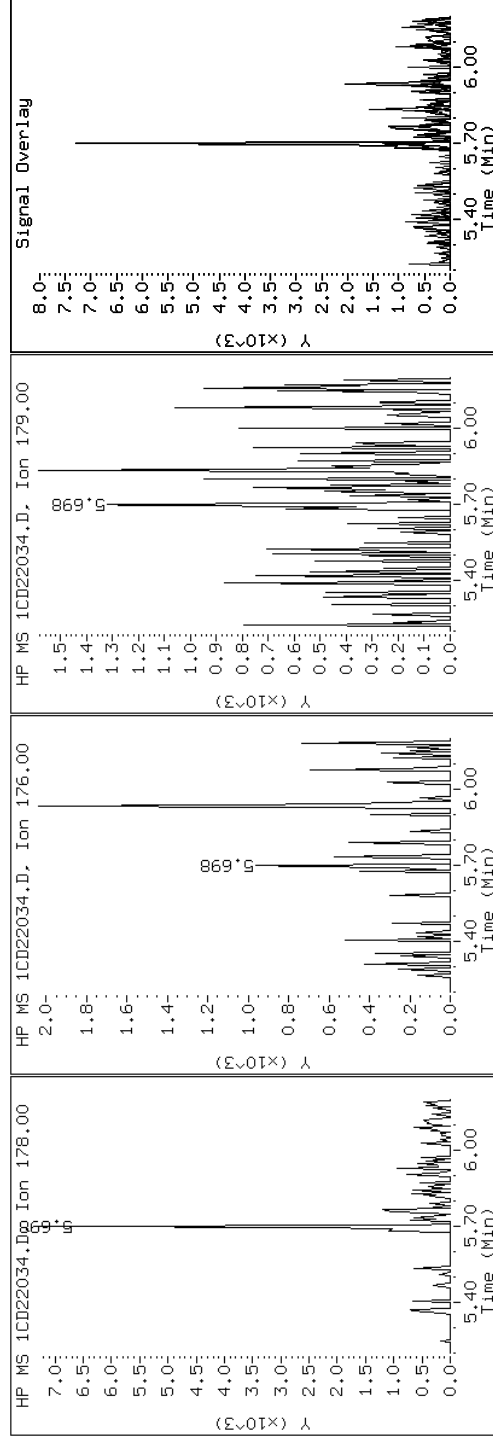
Client ID: FM0337B-CSD

Sample Info: 680-89459-a-8-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22034.D

Date: 22-APR-2013 22:03

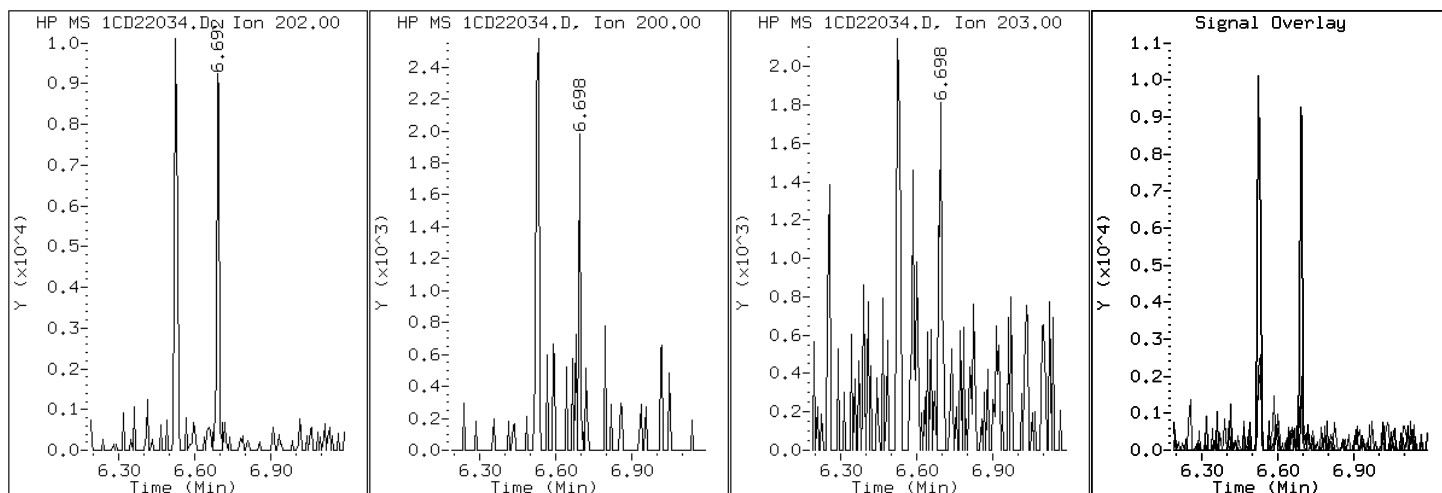
Client ID: FM0337B-CSD

Instrument: BSMC5973.i

Sample Info: 680-89459-a-8-a

Operator: SCC

16 Pyrene

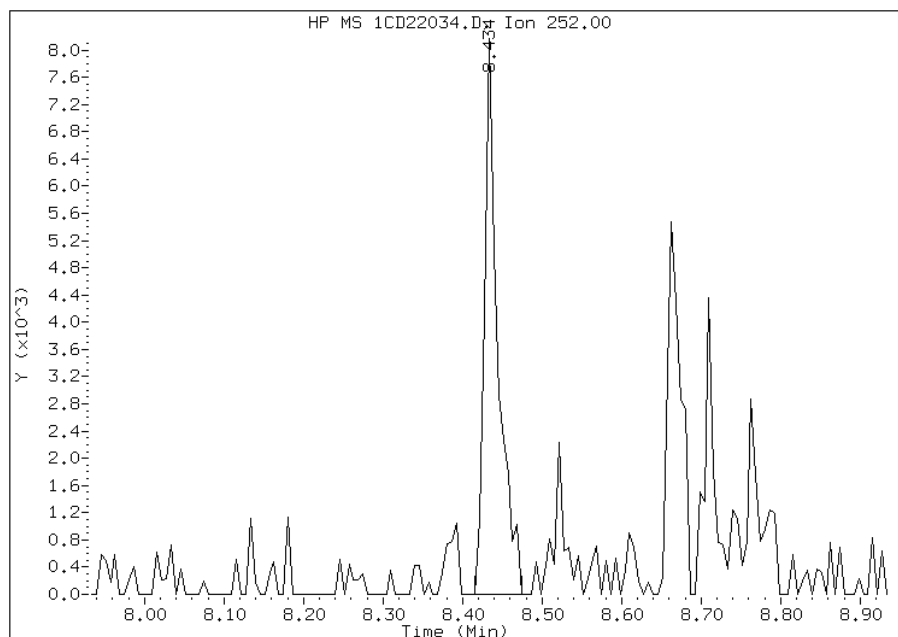


Manual Integration Report

Data File: 1CD22034.D
Inj. Date and Time: 22-APR-2013 22:03
Instrument ID: BSMC5973.i
Client ID: FM0337B-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/24/2013

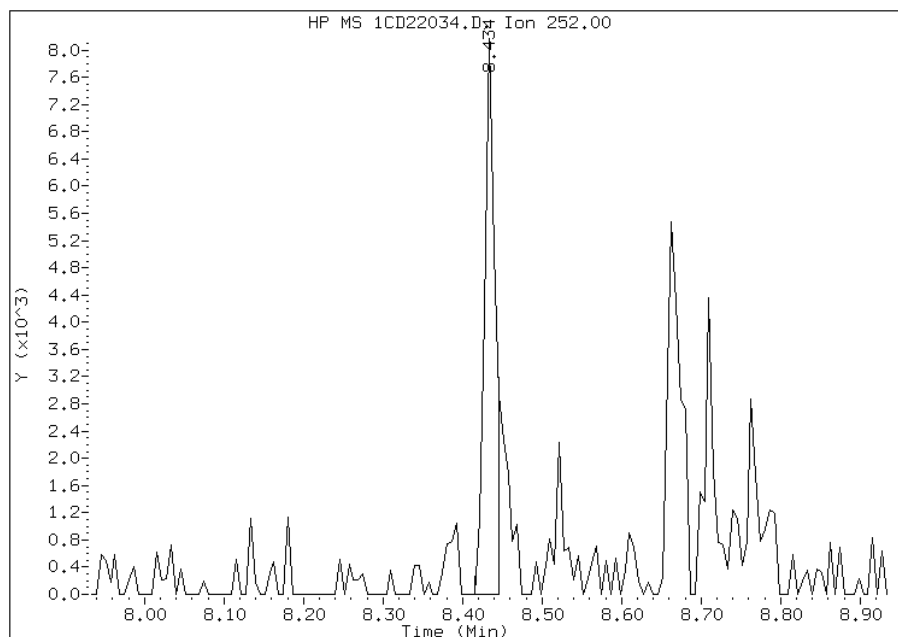
Processing Integration Results

RT: 8.43
Response: 9615
Amount: 1
Conc: 115



Manual Integration Results

RT: 8.43
Response: 7549
Amount: 1
Conc: 90



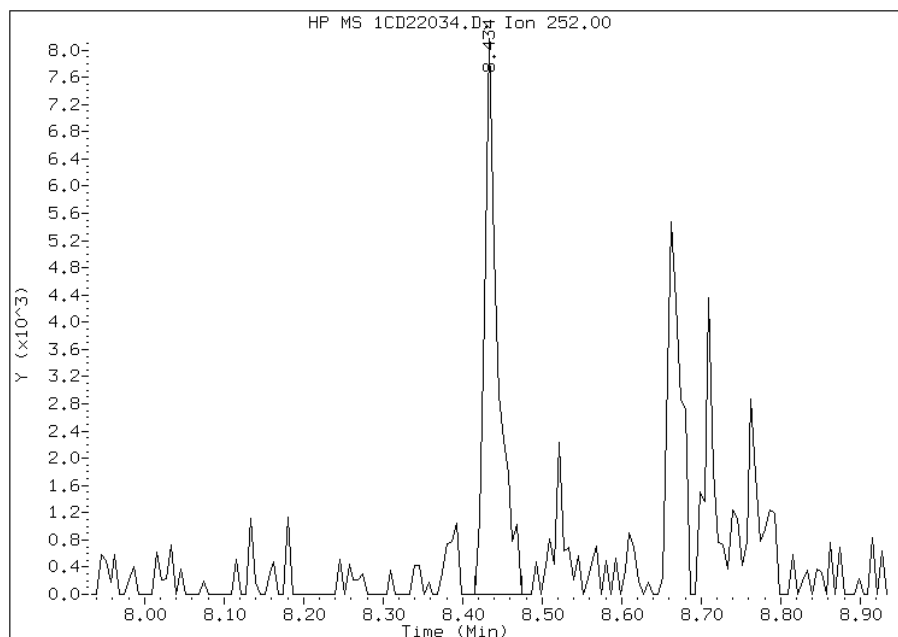
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 11:09
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD22034.D
Inj. Date and Time: 22-APR-2013 22:03
Instrument ID: BSMC5973.i
Client ID: FM0337B-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/24/2013

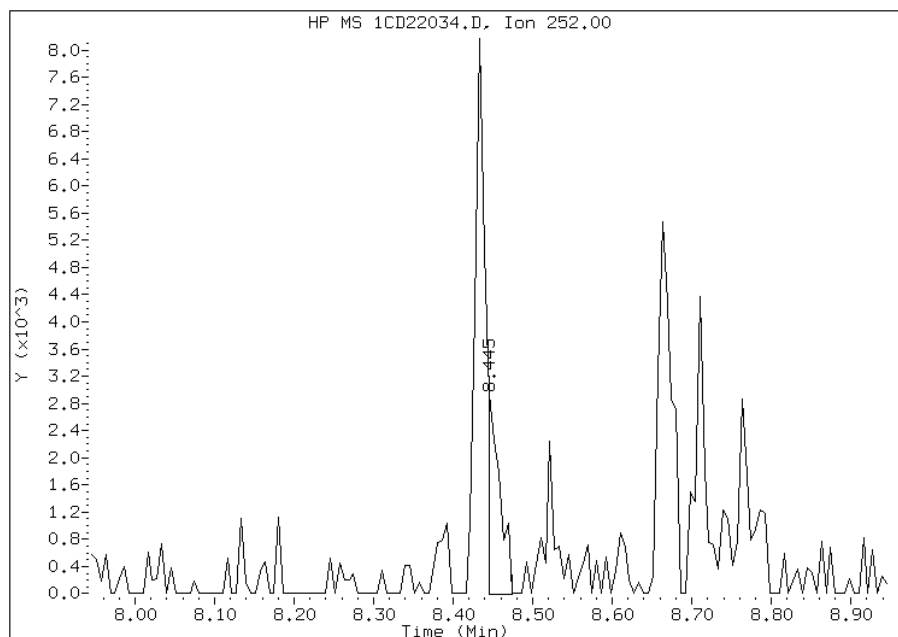
Processing Integration Results

RT: 8.43
Response: 9615
Amount: 1
Conc: 101



Manual Integration Results

RT: 8.45
Response: 3121
Amount: 0
Conc: 33



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 11:09
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0342A-CS</u>	Lab Sample ID: <u>680-89459-9</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22035.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.16(g)</u>	Date Analyzed: <u>04/22/2013 22:22</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>18.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	10	J	49	6.1
120-12-7	Anthracene	9.8	J	10	5.1
56-55-3	Benzo[a]anthracene	40		9.7	4.7
50-32-8	Benzo[a]pyrene	56		13	6.3
205-99-2	Benzo[b]fluoranthene	88		15	7.4
191-24-2	Benzo[g,h,i]perylene	49		24	5.3
207-08-9	Benzo[k]fluoranthene	22		9.7	4.4
218-01-9	Chrysene	52		11	5.5
53-70-3	Dibenz(a,h)anthracene	24	U	24	5.0
206-44-0	Fluoranthene	62		24	4.9
86-73-7	Fluorene	11	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	100		24	8.6
90-12-0	1-Methylnaphthalene	14	J	49	5.3
91-57-6	2-Methylnaphthalene	42	J	49	8.6
91-20-3	Naphthalene	6.3	J	49	5.3
85-01-8	Phenanthrene	36		9.7	4.7
129-00-0	Pyrene	56		24	4.5

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\1C042213.b\1CD22035.D
Lab Smp Id: 680-89459-A-9-A Client Smp ID: FM0342A-CS
Inj Date : 22-APR-2013 22:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89459-a-9-a
Misc Info : 680-89459-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\A-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	18.502	% 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		3.651	3.651	(1.000)		231914	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		157412	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		296355	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		27867	6.36809	515.4234
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		320183	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		271617	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		490	0.07816	6.3263(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		1026	0.51743	41.8798(Q)
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		686	0.17131	13.8657(Q)
5 Acenaphthylene	152		4.651	4.651	(0.981)		829	0.12429	10.0594(Q)
9 Fluorene	166		5.080	5.080	(1.072)		667	0.13039	10.5536(Q)
11 Phenanthrene	178		5.698	5.698	(1.003)		3759	0.43949	35.5718
12 Anthracene	178		5.733	5.733	(1.009)		1043	0.12123	9.8121(Q)
13 Carbazole	167		5.839	5.839	(1.028)		1046	0.13054	10.5656(Q)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Fluoranthene	202	6.527	6.527	(1.149)	7346	0.76411	61.8457
16 Pyrene	202	6.692	6.692	(0.879)	6260	0.68724	55.6243
17 Benzo(a)anthracene	228	7.610	7.603	(0.999)	4497	0.49668	40.2003(Q)
19 Chrysene	228	7.633	7.633	(1.002)	5777	0.64498	52.2040
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	7422	1.08187	87.5647
21 Benzo(k)fluoranthene	252	8.462	8.456	(0.966)	2097	0.27013	21.8640(Q)
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	4917	0.69337	56.1203
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874	(1.127)	4184	1.23329	99.8205(M)
26 Benzo(g,h,i)perylene	276	10.209	10.209	(1.165)	3996	0.60119	48.6592(M)

QC Flag Legend

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

Data File: 1CD22035.D

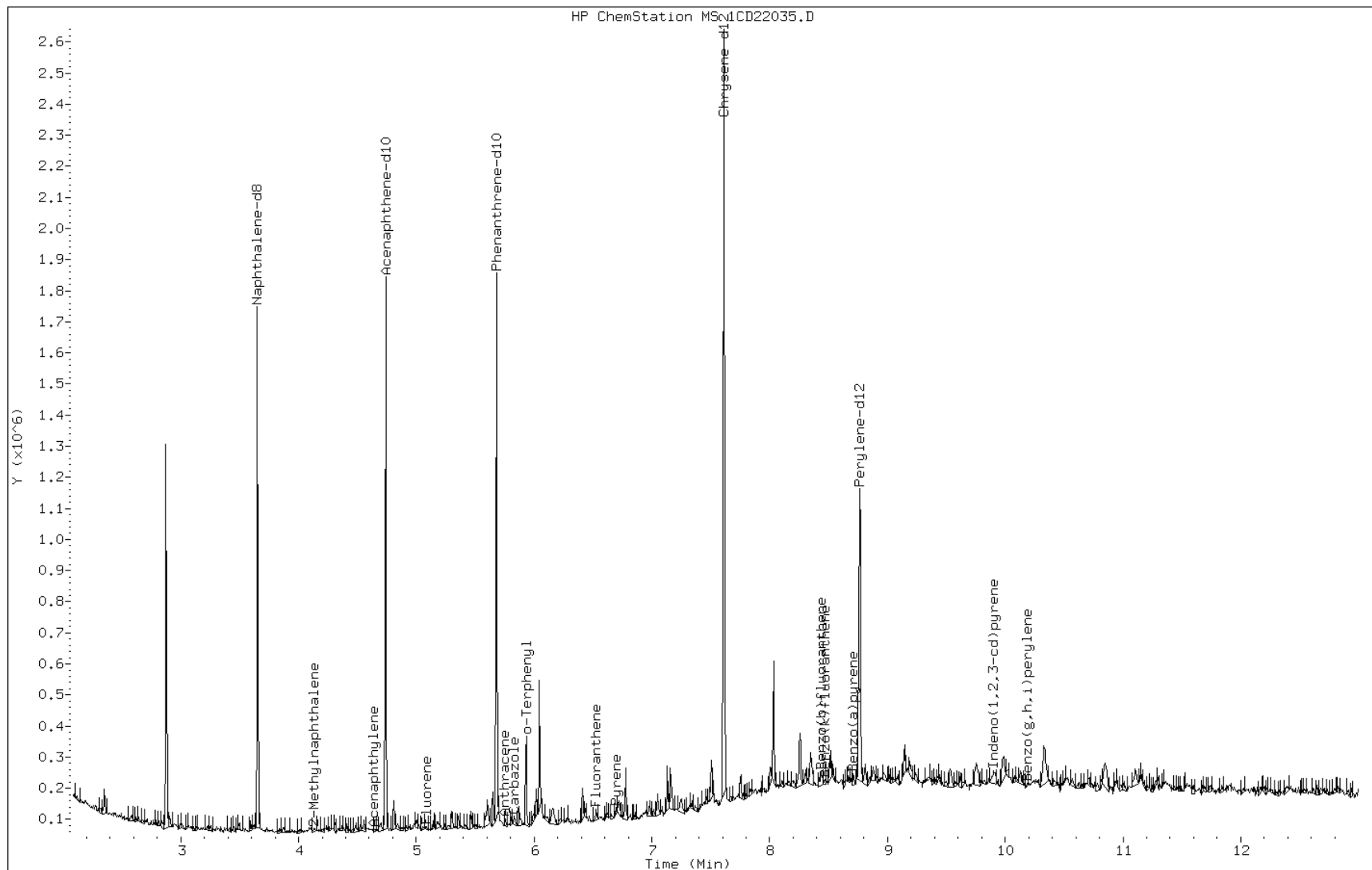
Date: 22-APR-2013 22:22

Client ID: FM0342A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-9-a

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

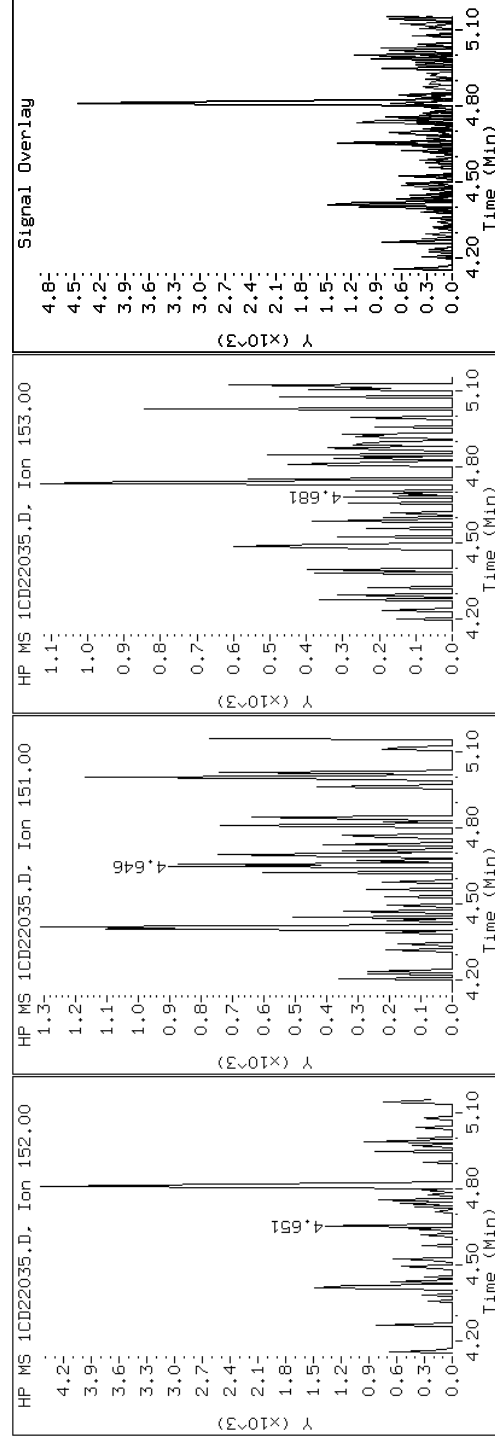
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

5 Acenaphthylene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

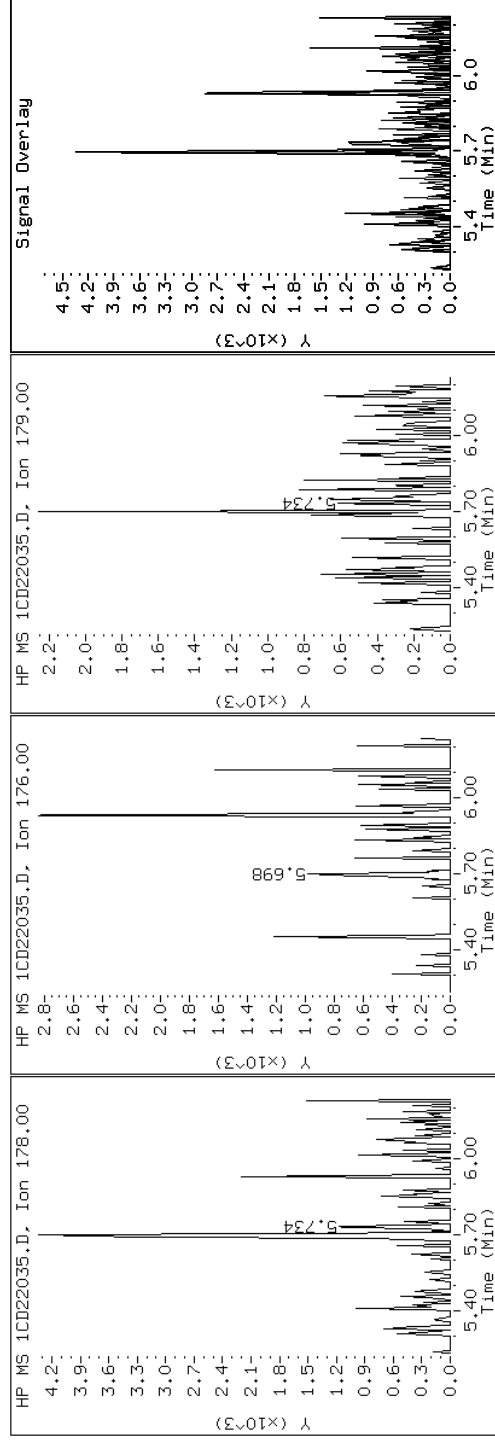
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

12 Anthracene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

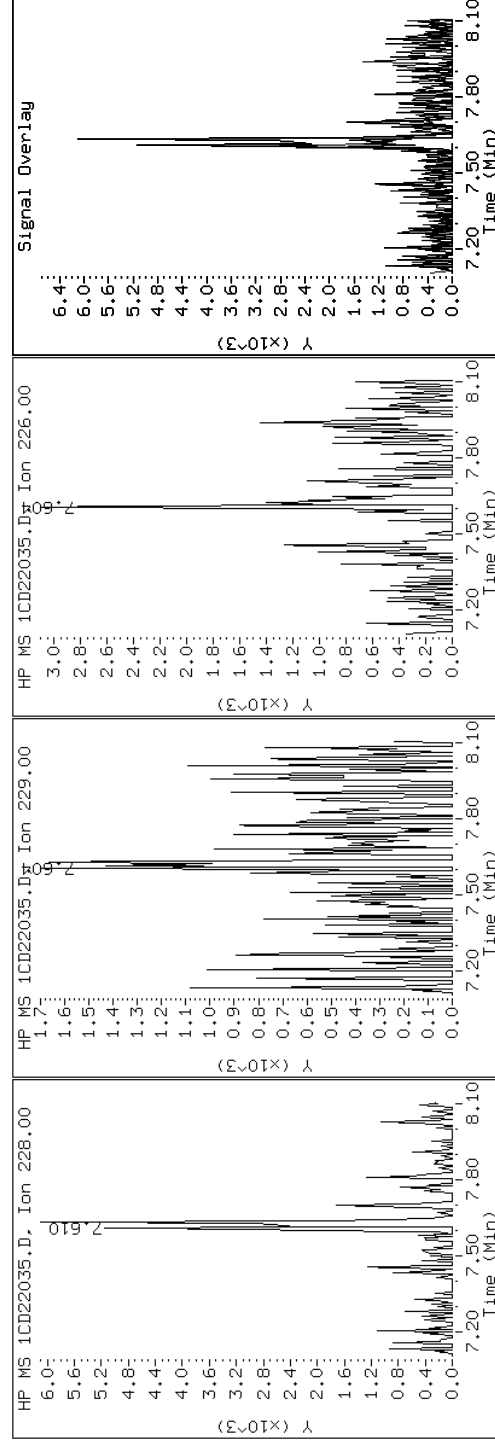
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

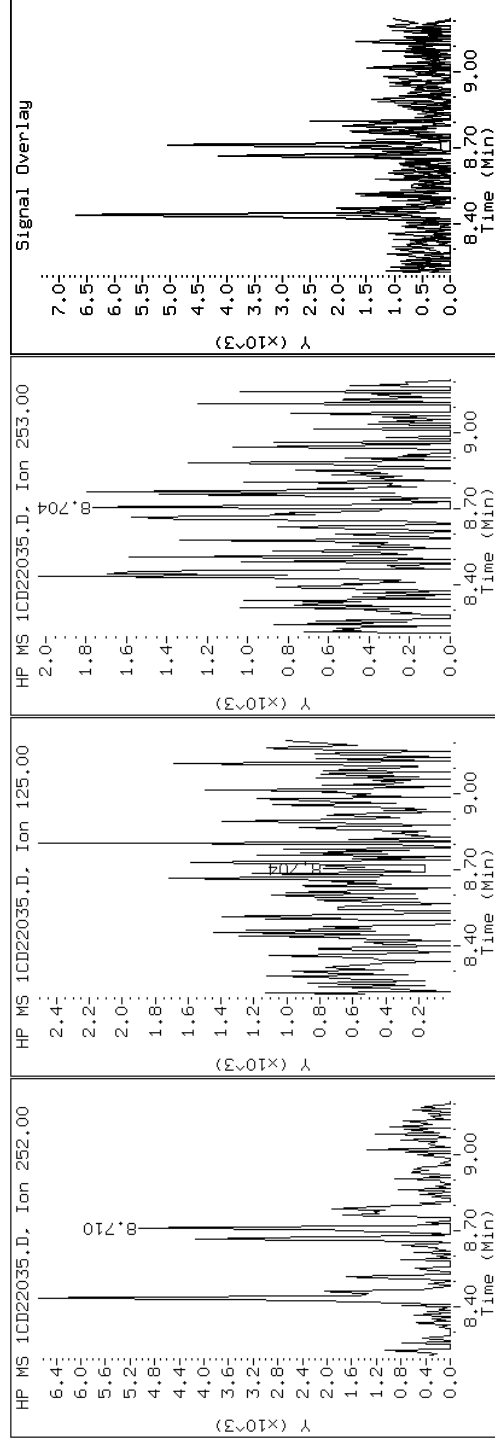
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

22 Benzo(a)pyrene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

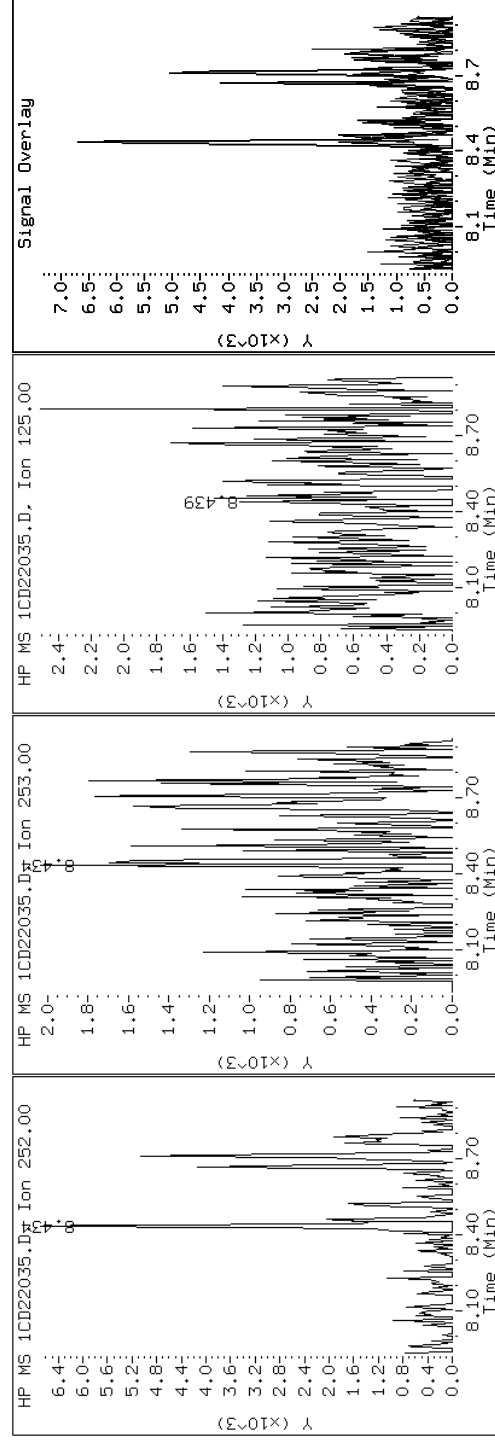
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

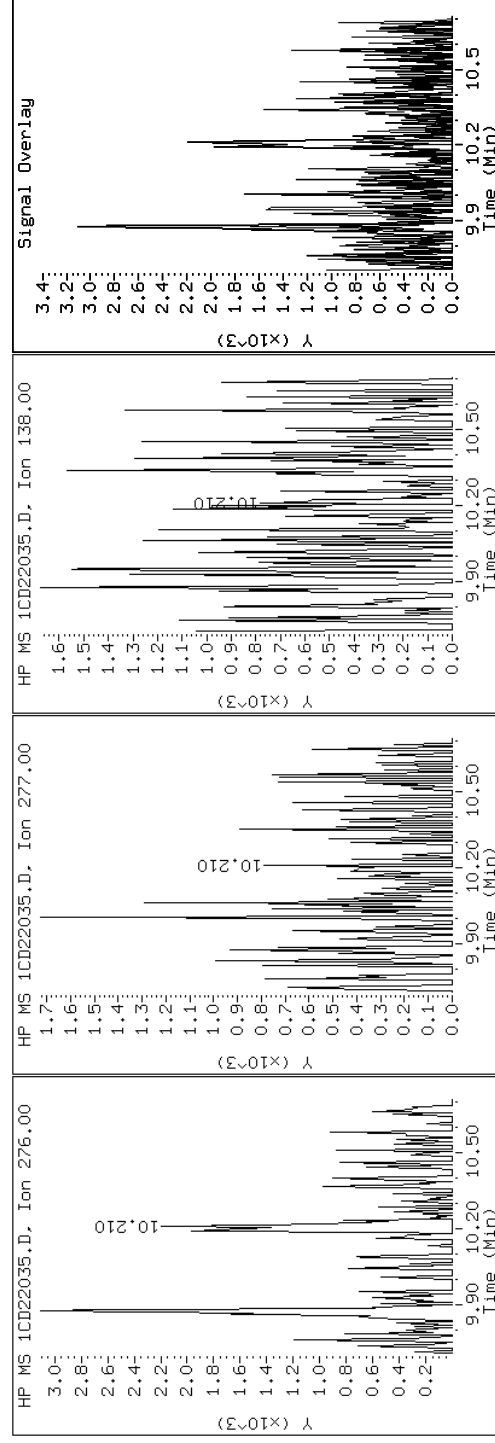
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

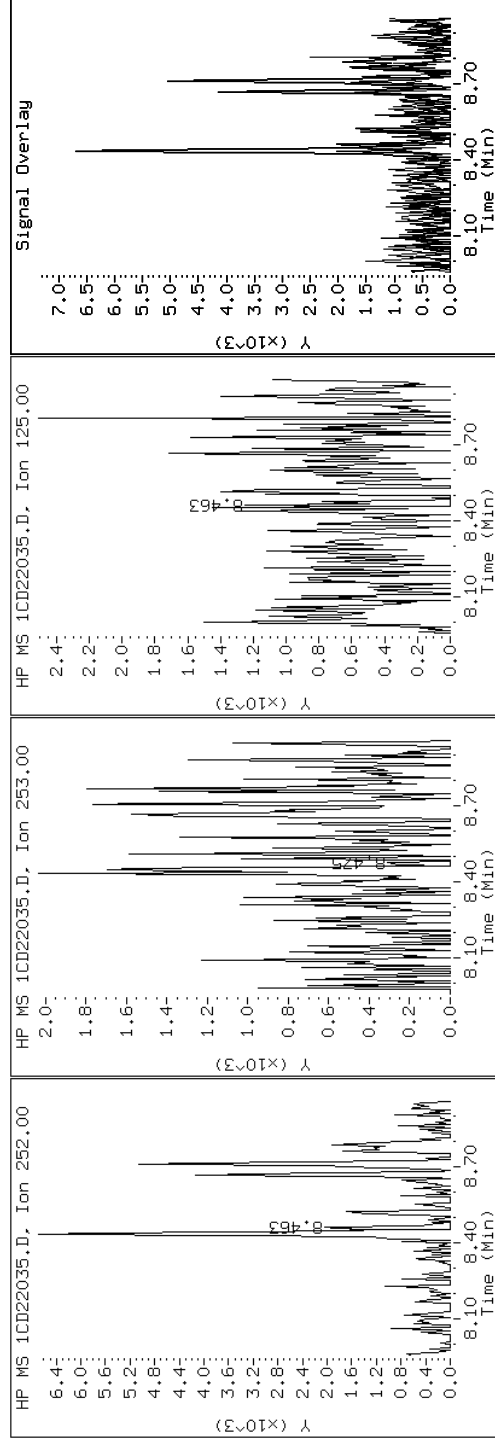
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

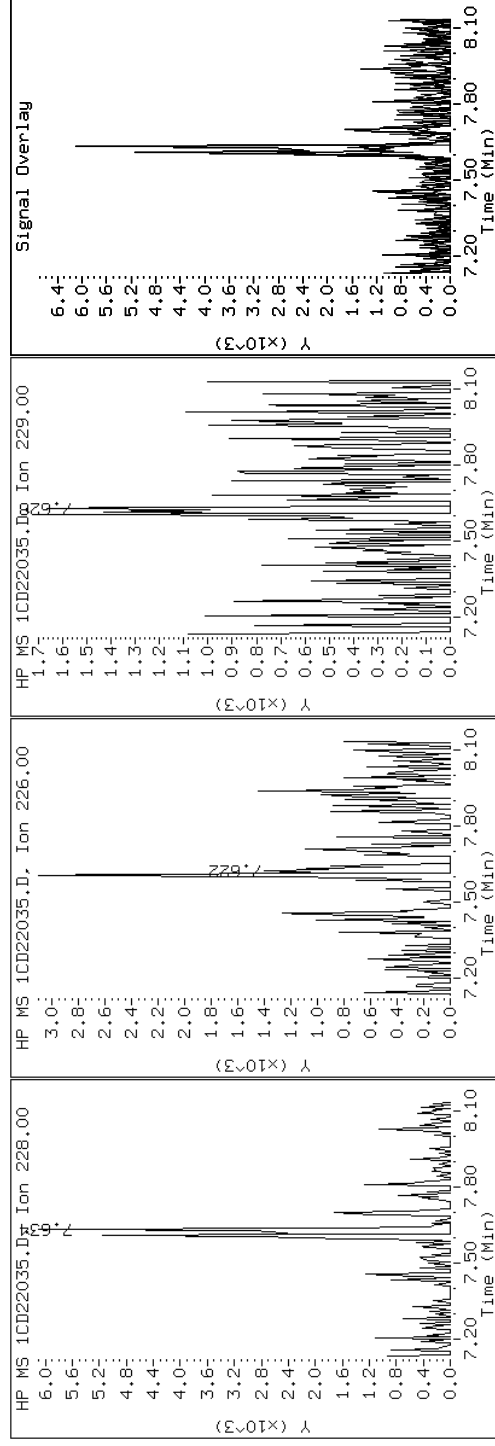
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

19 Chrysene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

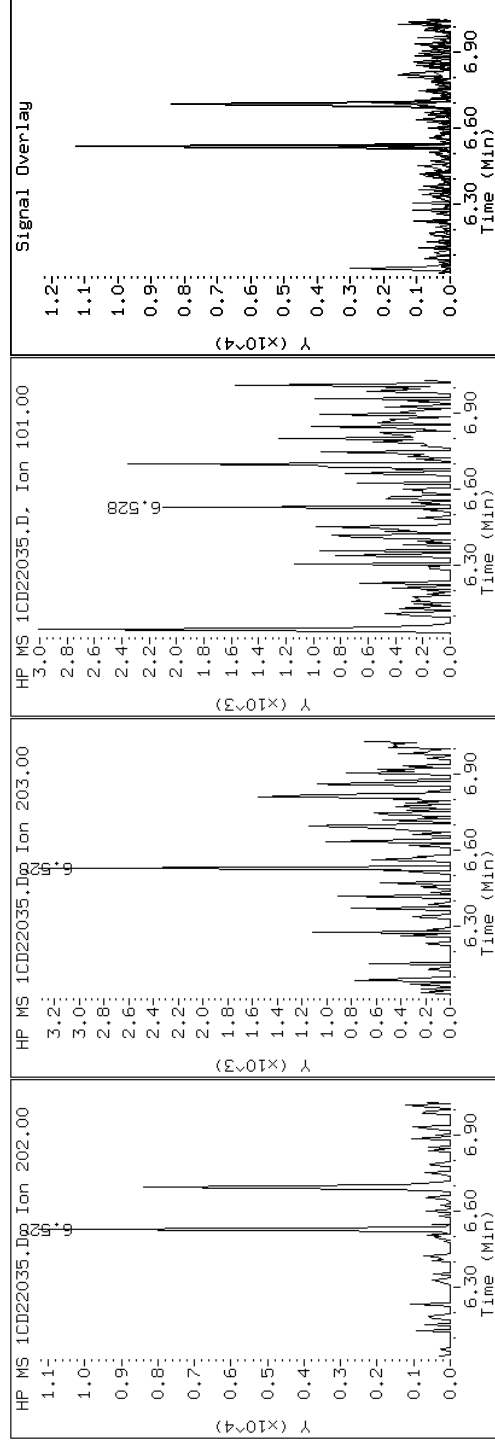
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

15 Fluoranthene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

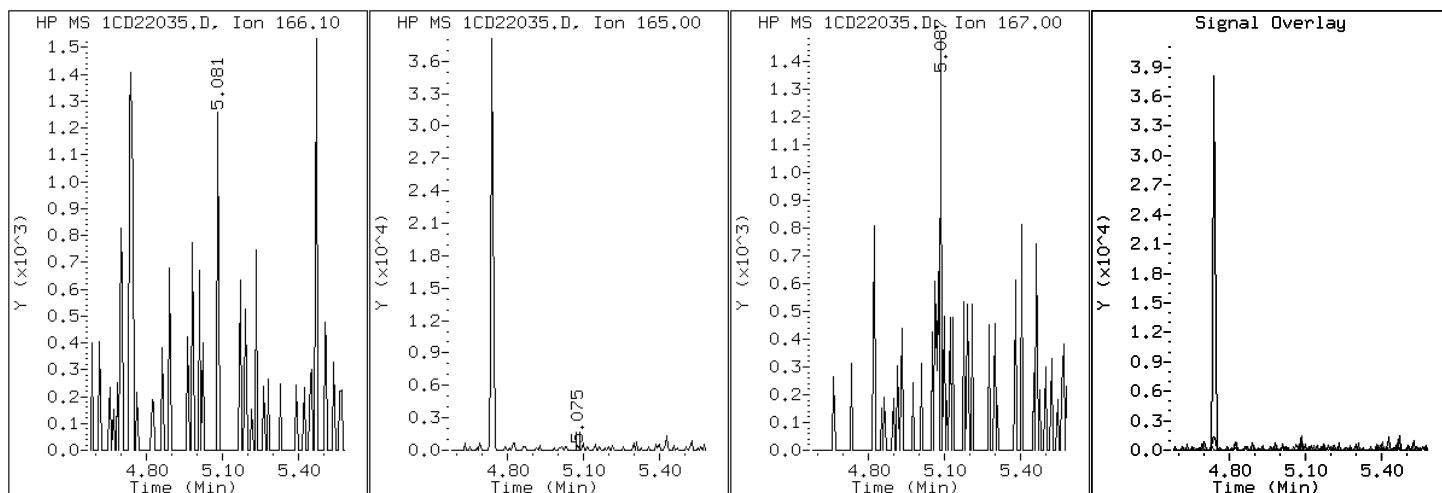
Client ID: FM0342A-CS

Instrument: BSMC5973.i

Sample Info: 680-89459-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

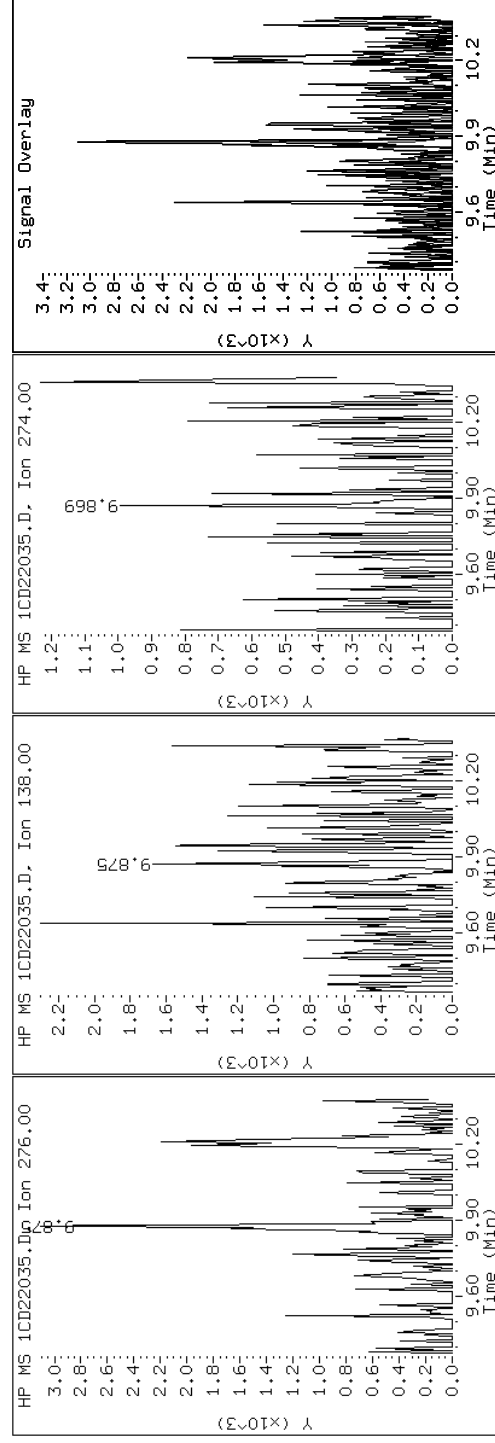
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

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

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

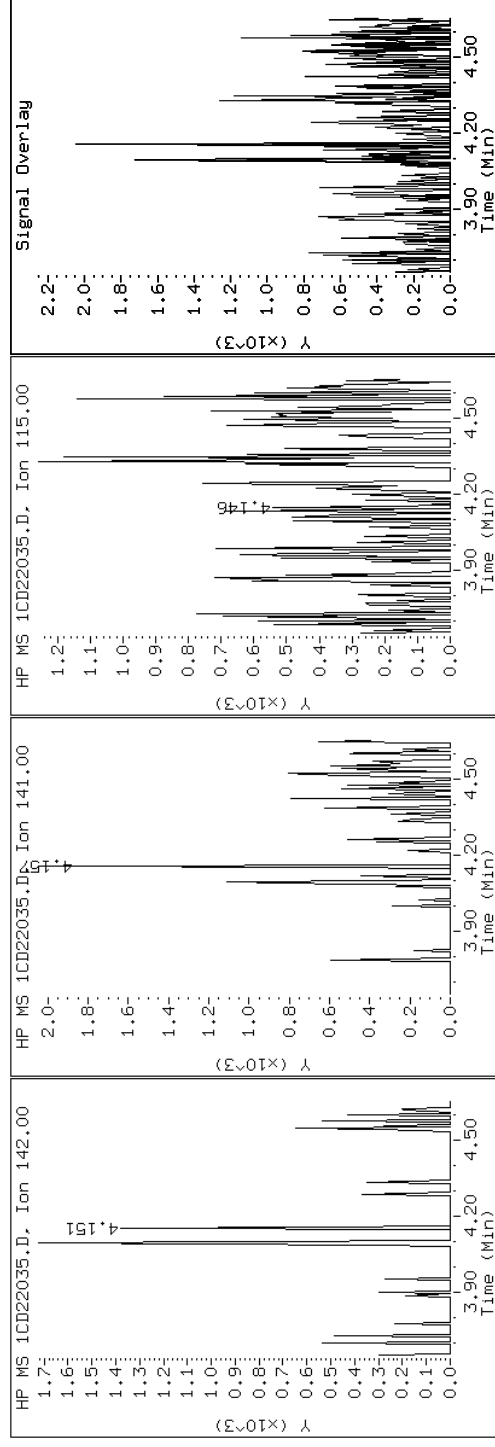
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

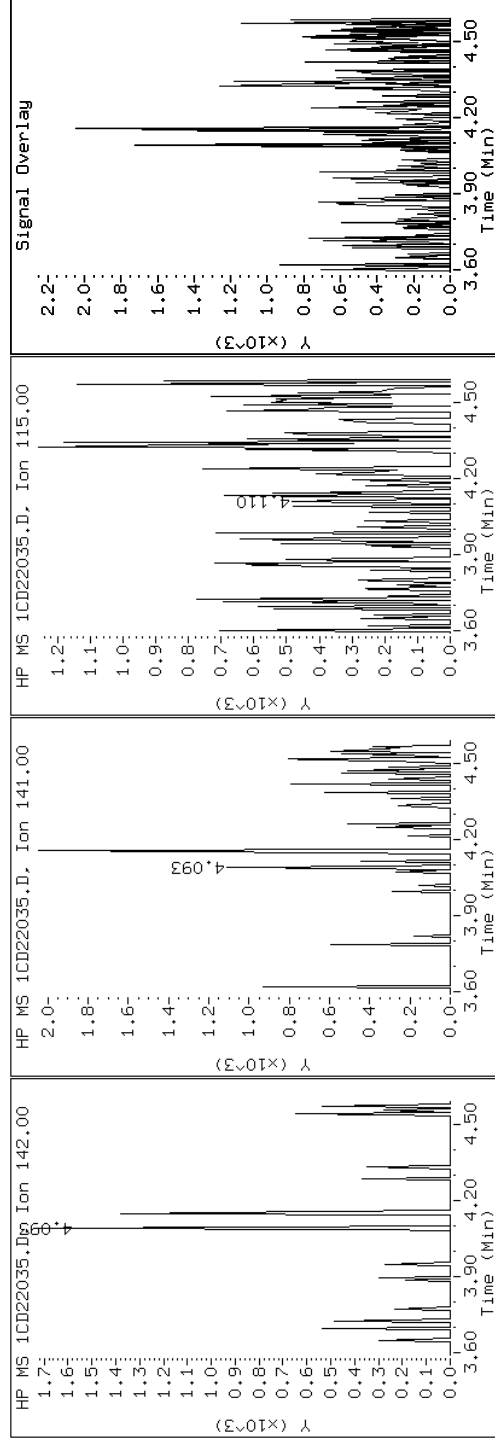
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

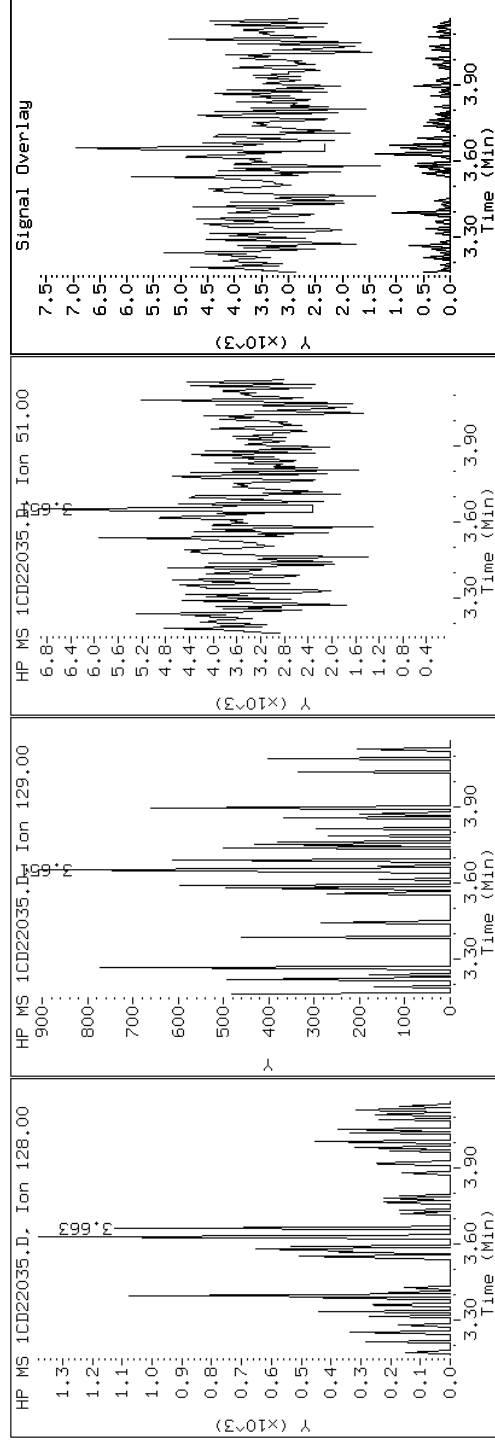
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

2 Naphthalene

Instrument: BSMC5973.i

Operator: SCC



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

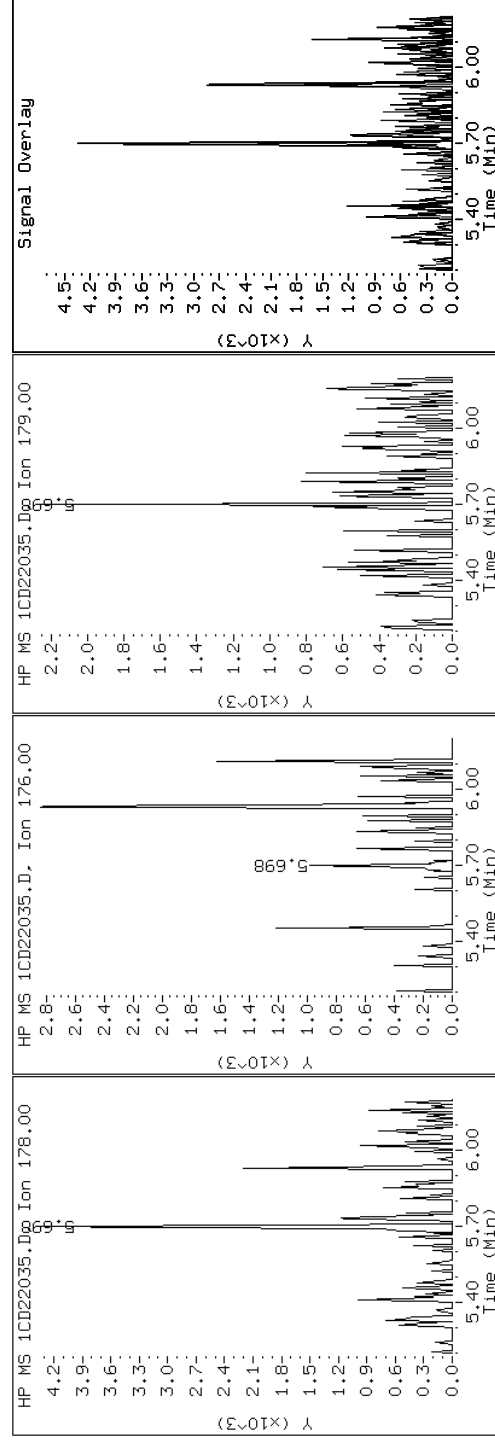
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

Instrument: BSMC5973.i

Operator: SCC

11 Phenanthrene



Data File: 1CD22035.D

Date: 22-APR-2013 22:22

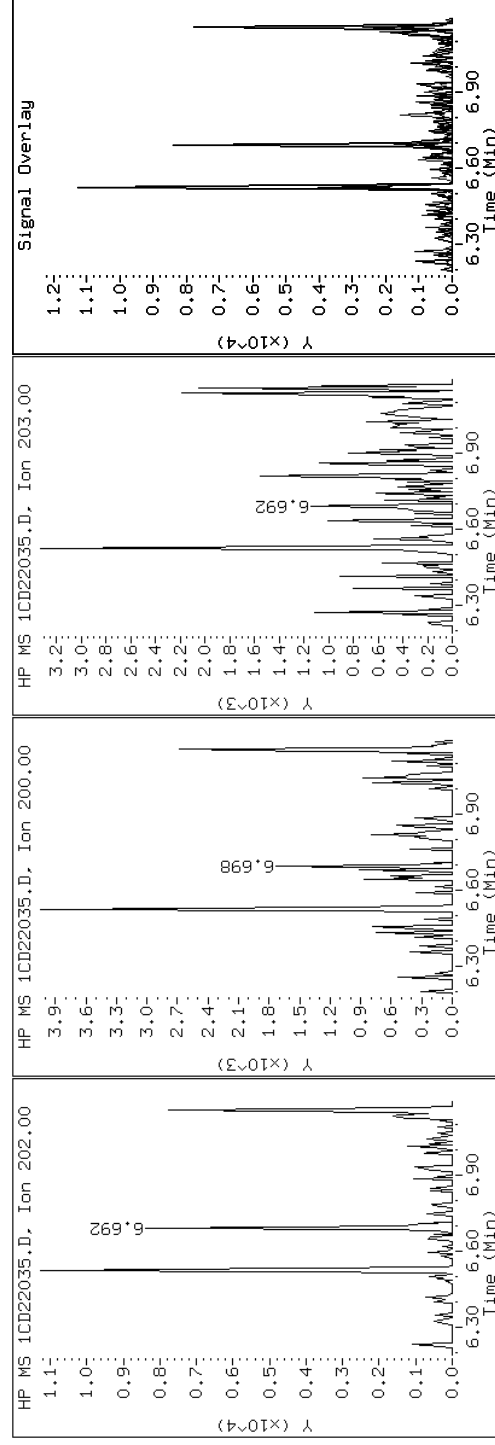
Client ID: FM0342A-CS

Sample Info: 680-89459-a-9-a

16 Pyrene

Instrument: BSMC5973.i

Operator: SCC

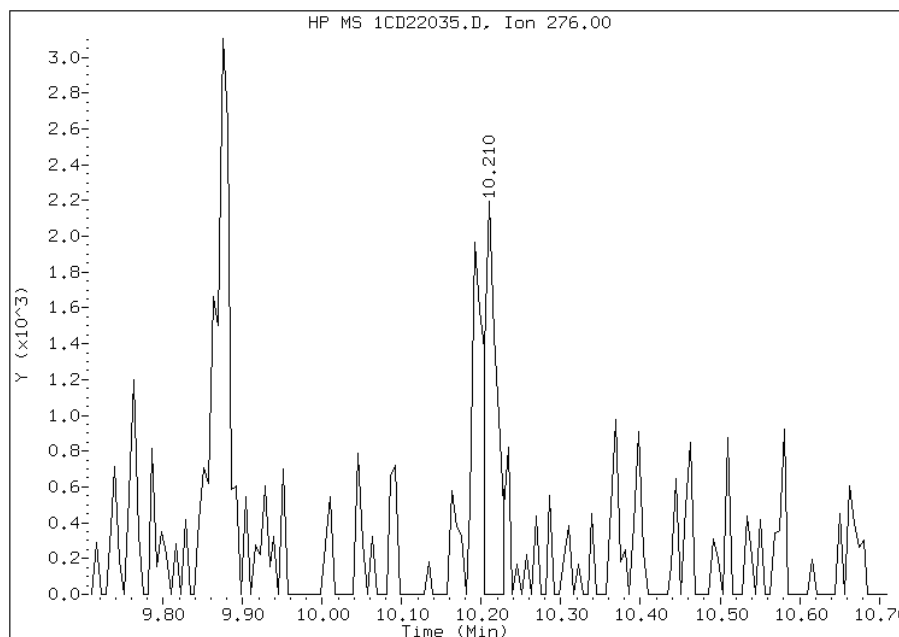


Manual Integration Report

Data File: 1CD22035.D
Inj. Date and Time: 22-APR-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0342A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

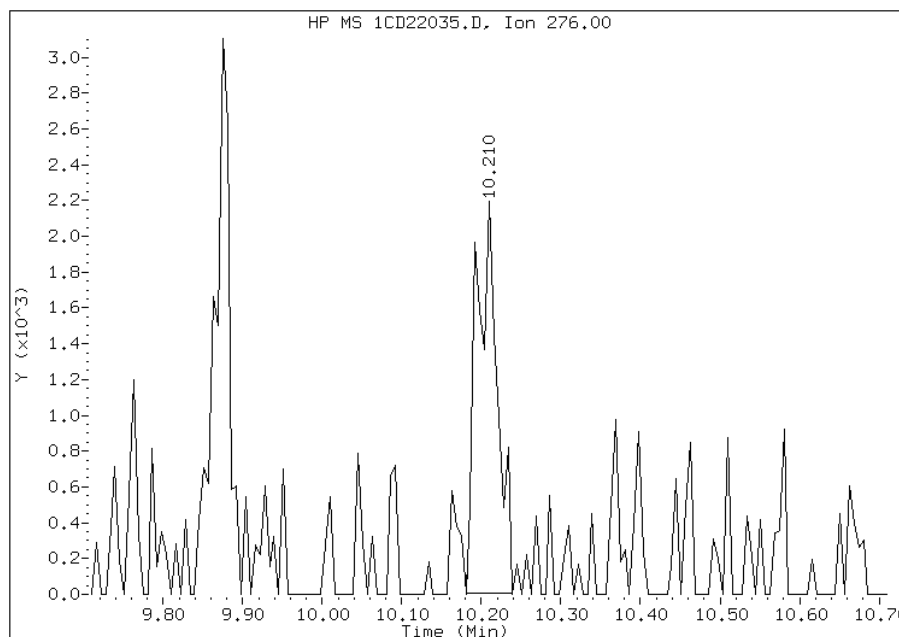
Processing Integration Results

RT: 10.21
Response: 2290
Amount: 0
Conc: 28



Manual Integration Results

RT: 10.21
Response: 3996
Amount: 1
Conc: 49



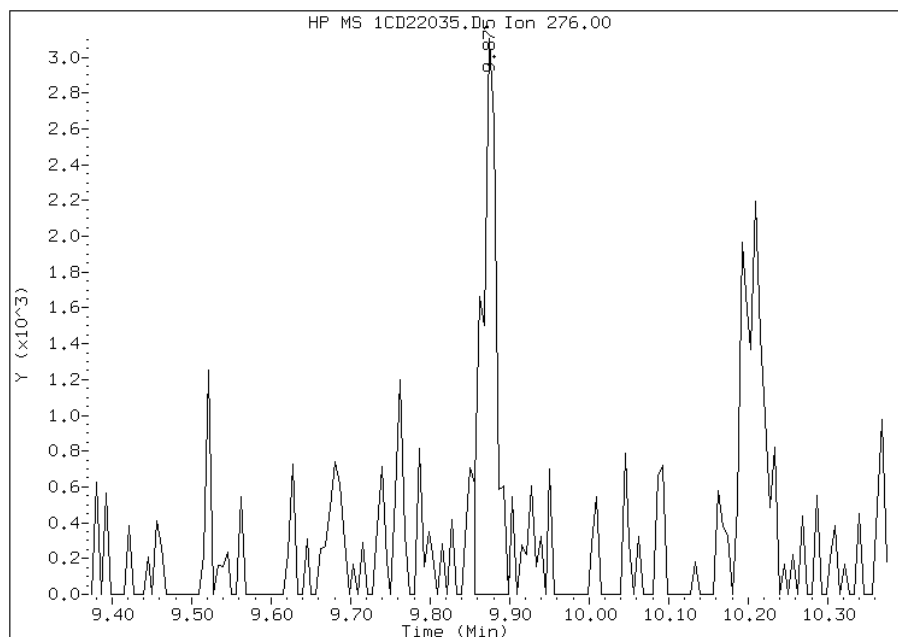
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 11:10
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22035.D
Inj. Date and Time: 22-APR-2013 22:22
Instrument ID: BSMC5973.i
Client ID: FM0342A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

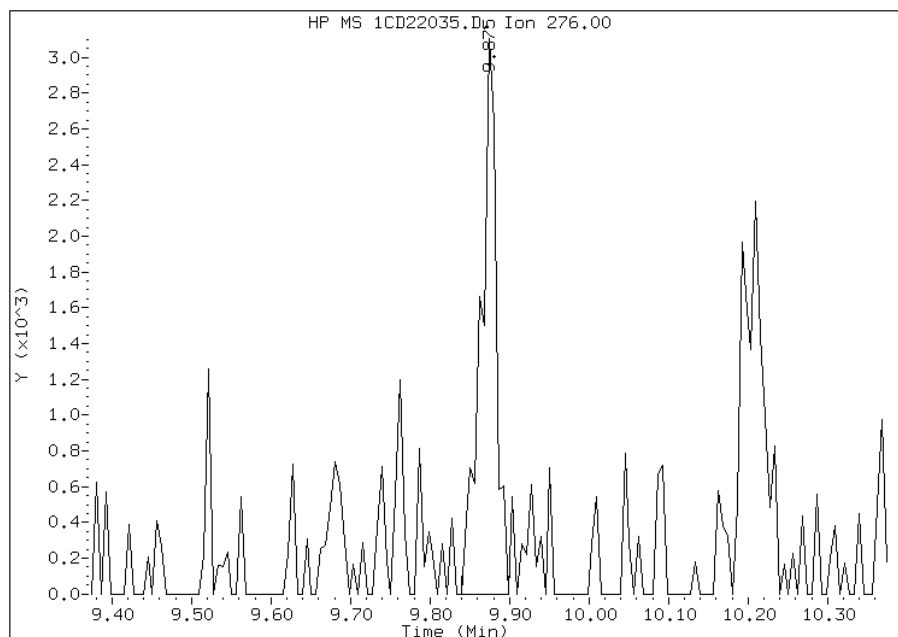
Processing Integration Results

RT: 9.87
Response: 3781
Amount: 1
Conc: 95



Manual Integration Results

RT: 9.87
Response: 4184
Amount: 1
Conc: 100



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 11:11
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>FM0342B-CS</u>	Lab Sample ID: <u>680-89459-10</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:20</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.92(g)</u>	Date Analyzed: <u>04/23/2013 17:29</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>20.4</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41	J	130	25
208-96-8	Acenaphthylene	36	J	50	6.3
120-12-7	Anthracene	4000		11	5.3
56-55-3	Benzo[a]anthracene	430		10	4.9
50-32-8	Benzo[a]pyrene	380		13	6.6
205-99-2	Benzo[b]fluoranthene	620		15	7.7
191-24-2	Benzo[g,h,i]perylene	250		25	5.6
207-08-9	Benzo[k]fluoranthene	200		10	4.5
218-01-9	Chrysene	760		11	5.7
53-70-3	Dibenz(a,h)anthracene	77		25	5.2
206-44-0	Fluoranthene	780		25	5.0
86-73-7	Fluorene	240		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	220		25	9.0
90-12-0	1-Methylnaphthalene	77		50	5.6
91-57-6	2-Methylnaphthalene	180		50	9.0
91-20-3	Naphthalene	260		50	5.6
85-01-8	Phenanthrene	800		10	4.9
129-00-0	Pyrene	560		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23013.D
 Lab Smp Id: 680-89459-A-10-A Client Smp ID: FM0342B-CS
 Inj Date : 23-APR-2013 17:29
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-10-A
 Misc Info : 680-89459-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 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	14.920	Weight Extracted
M	20.354	% 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		6.054	6.051	(1.000)		1653112	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)		939870	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1514769	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		130125	5.70134	480
* 17 Chrysene-d12	240		11.307	11.304	(1.000)		1686982	40.0000	
* 22 Perylene-d12	264		13.134	13.120	(1.000)		1947914	40.0000	
2 Naphthalene	128		6.072	6.075	(1.003)		128946	3.13822	260
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		55296	2.08474	180
4 1-Methylnaphthalene	142		6.871	6.874	(1.135)		22864	0.91280	77
5 Acenaphthylene	152		7.605	7.608	(0.983)		16955	0.42623	36
7 Acenaphthene	154		7.758	7.761	(1.003)		12034	0.49009	41
8 Fluorene	166		8.204	8.208	(1.061)		84346	2.90074	240
10 Phenanthrene	178		9.015	9.013	(1.002)		395854	9.48748	800
11 Anthracene	178		9.056	9.054	(1.007)		1974976	47.6908	4000

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.197	9.195	(1.022)	795075	21.7661	1800
14 Fluoranthene	202	9.996	10.000	(1.111)	399631	9.30763	780
15 Pyrene	202	10.184	10.188	(0.901)	334960	6.61193	560
16 Benzo(a)anthracene	228	11.289	11.287	(0.998)	247938	5.08340	430
18 Chrysene	228	11.330	11.328	(1.002)	412609	9.02219	760
19 Benzo(b)fluoranthene	252	12.587	12.585	(0.958)	360279	7.40411	620
20 Benzo(k)fluoranthene	252	12.617	12.620	(0.961)	124244	2.42367	200
21 Benzo(a)pyrene	252	13.034	13.032	(0.992)	221036	4.52097	380
23 Indeno(1,2,3-cd)pyrene	276	14.714	14.706	(1.120)	133630	2.56327	220(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.735	(1.122)	44756	0.91167	77
25 Benzo(g,h,i)perylene	276	15.155	15.141	(1.154)	150556	2.99933	250

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23013.D

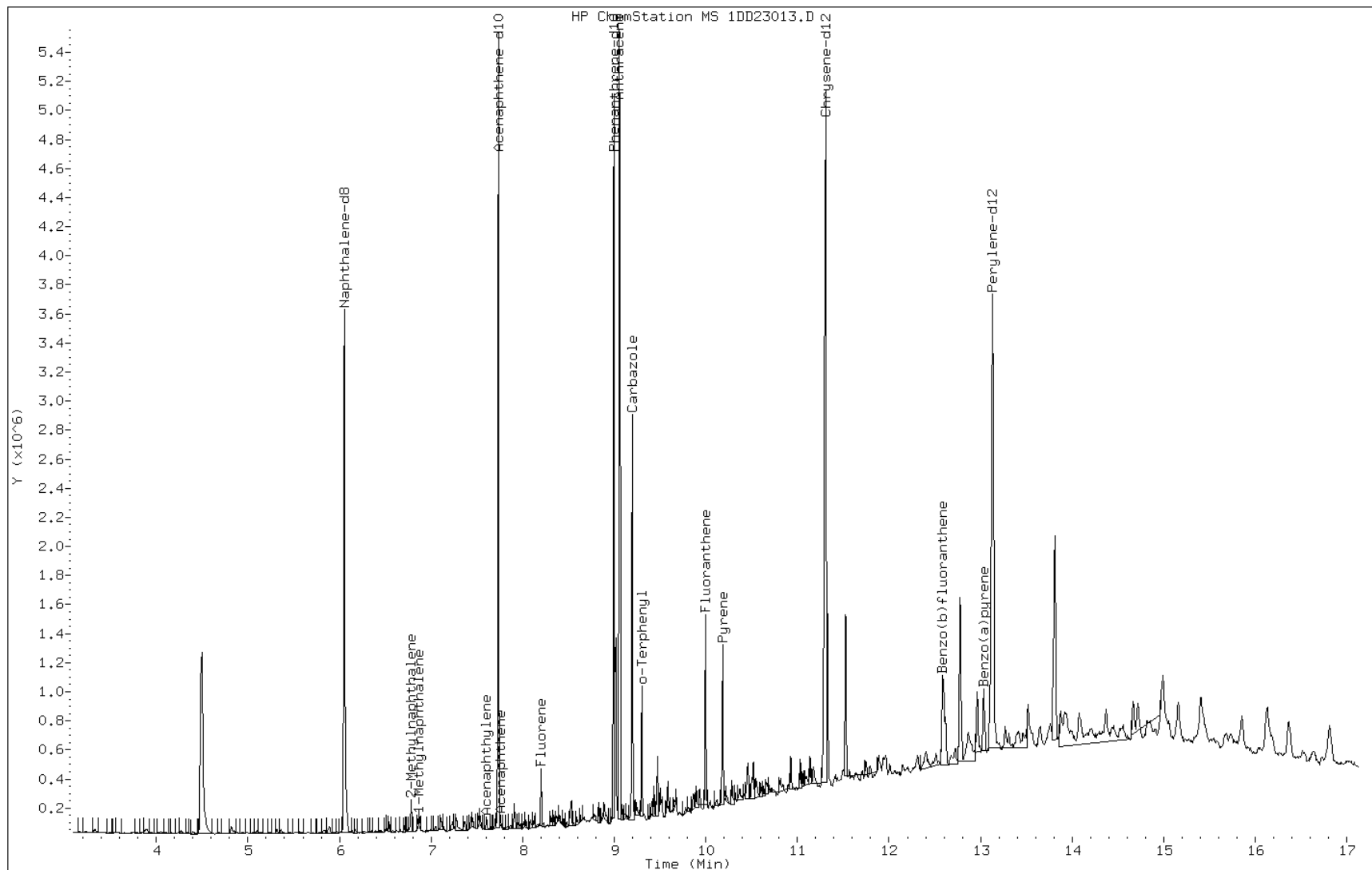
Date: 23-APR-2013 17:29

Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

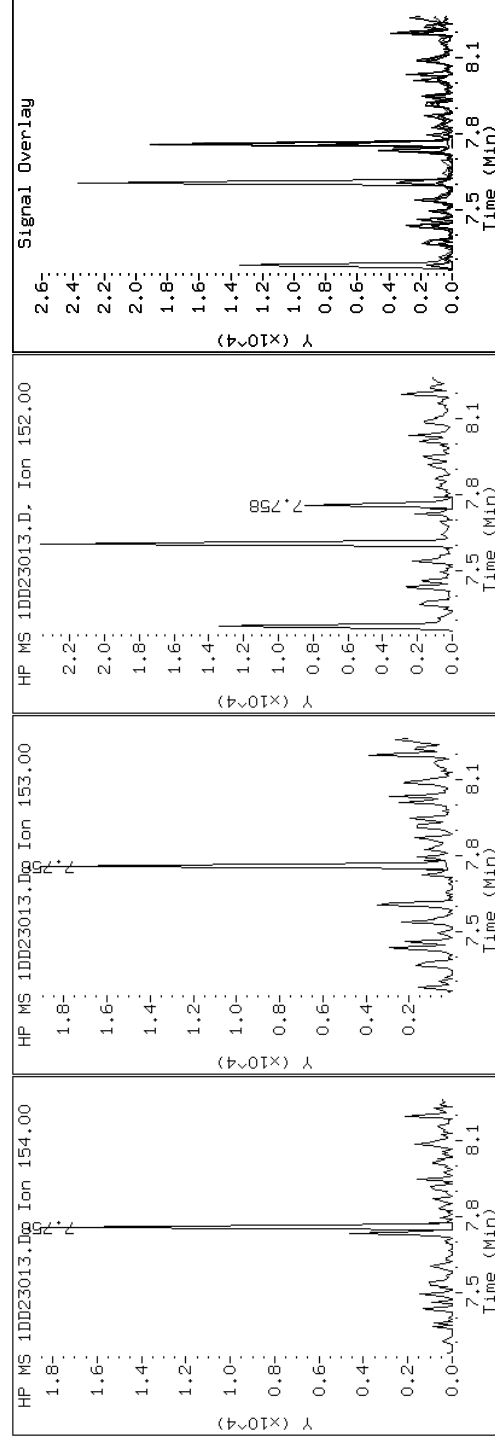
Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC

7 Acenaphthene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

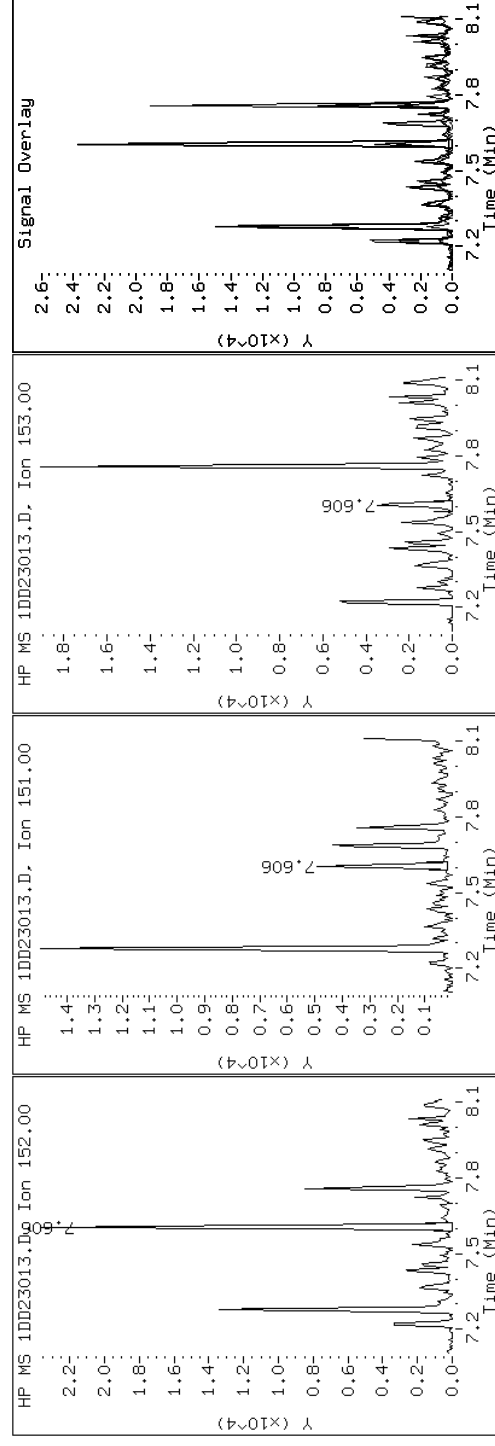
Client ID: FM0342B-CS

Sample Info: 680-89459-A-10-A

Instrument: BSMSD.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

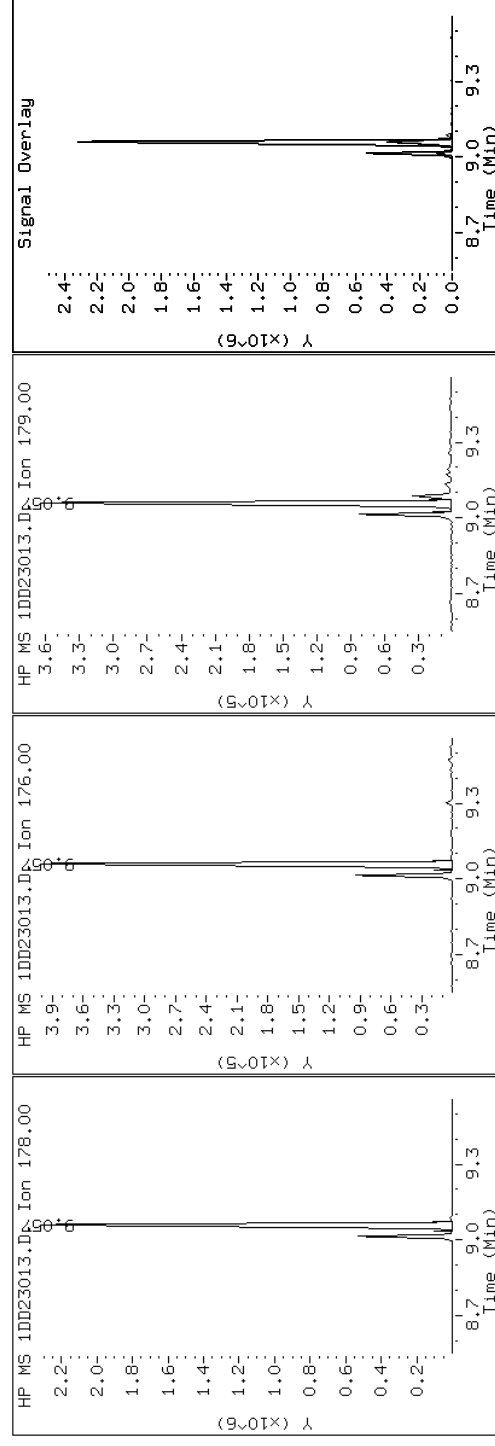
Client ID: FM0342B-CS

Sample Info: 680-89459-A-10-A

Instrument: BSMSD.i

Operator: SCC

11 Anthracene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

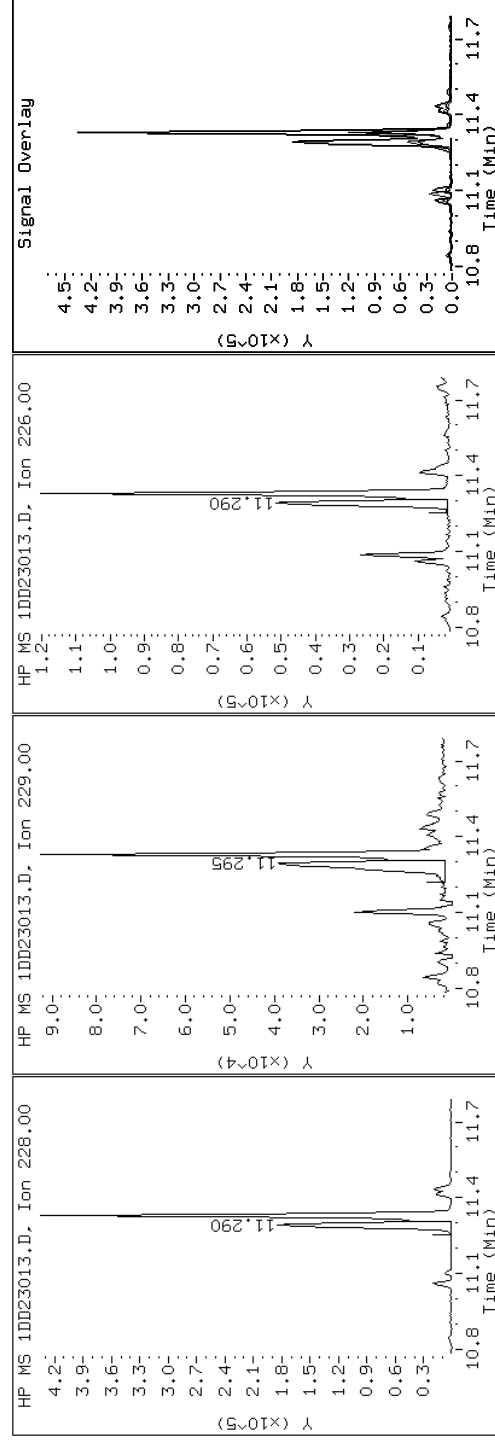
Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

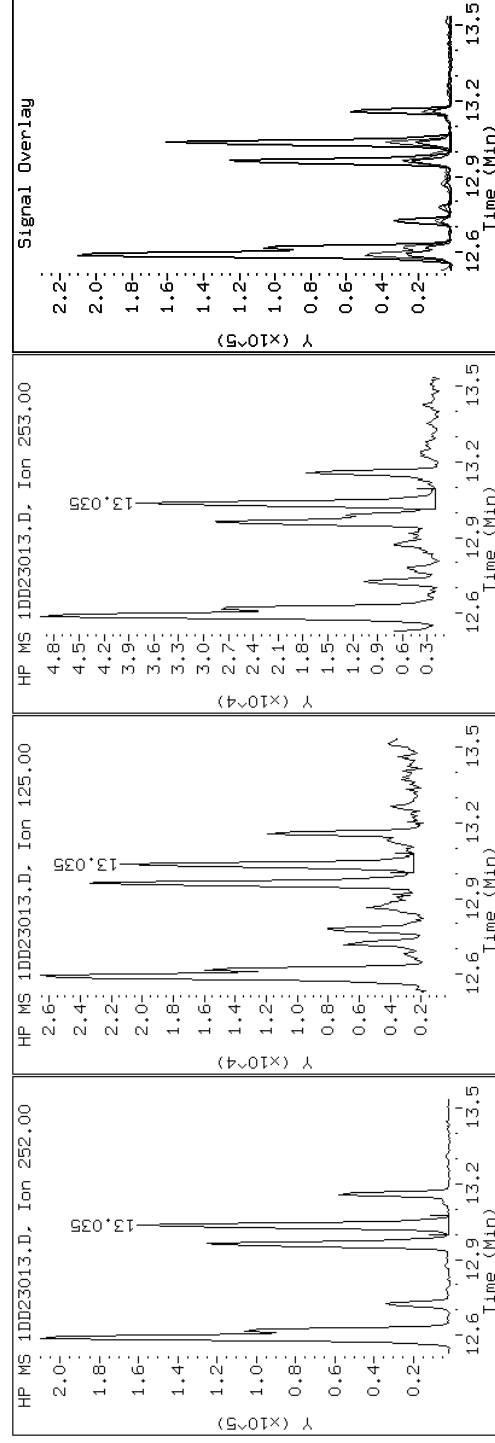
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

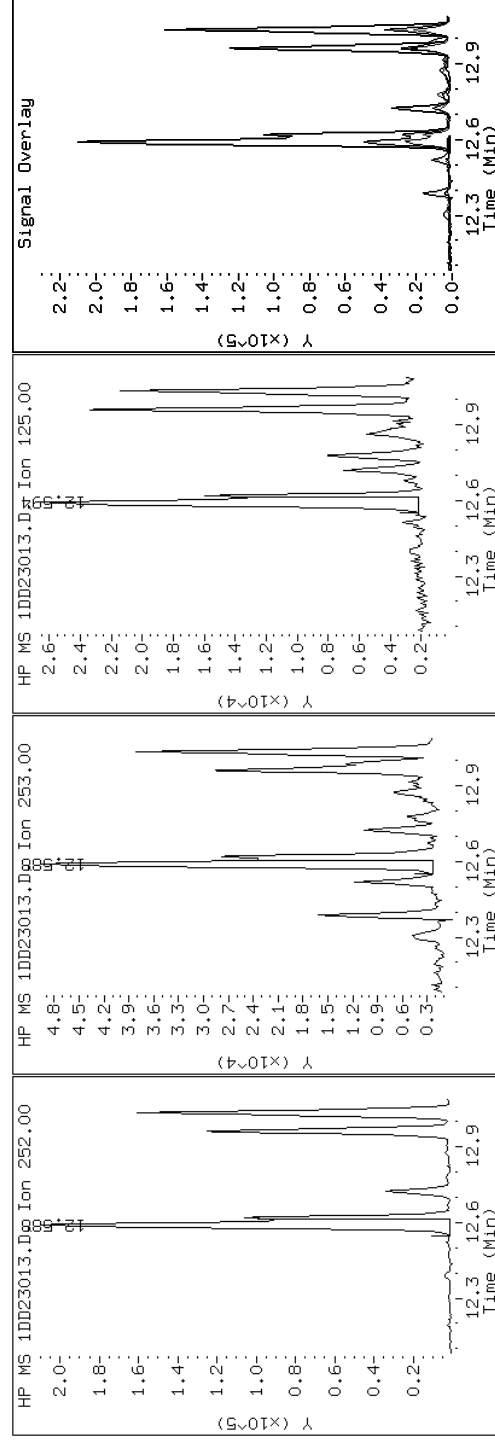
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

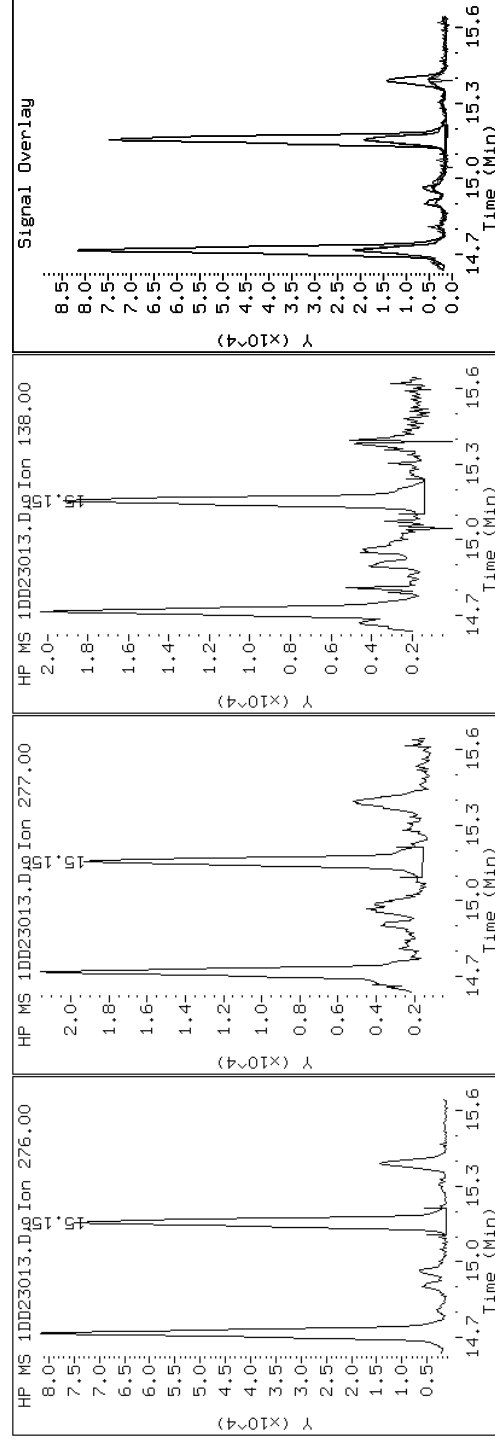
Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

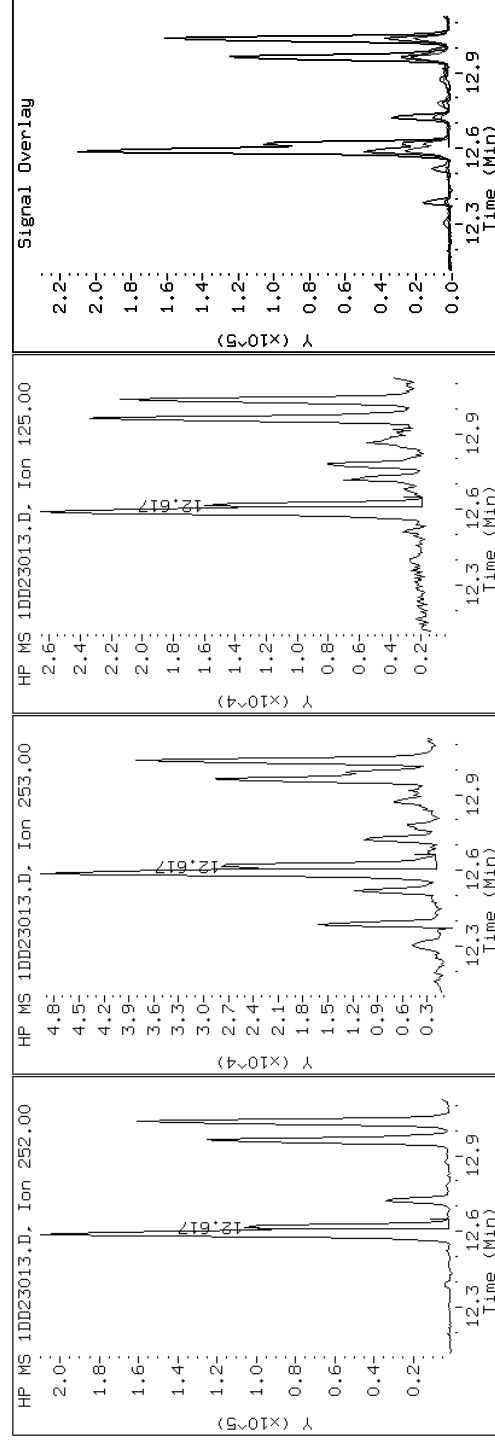
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

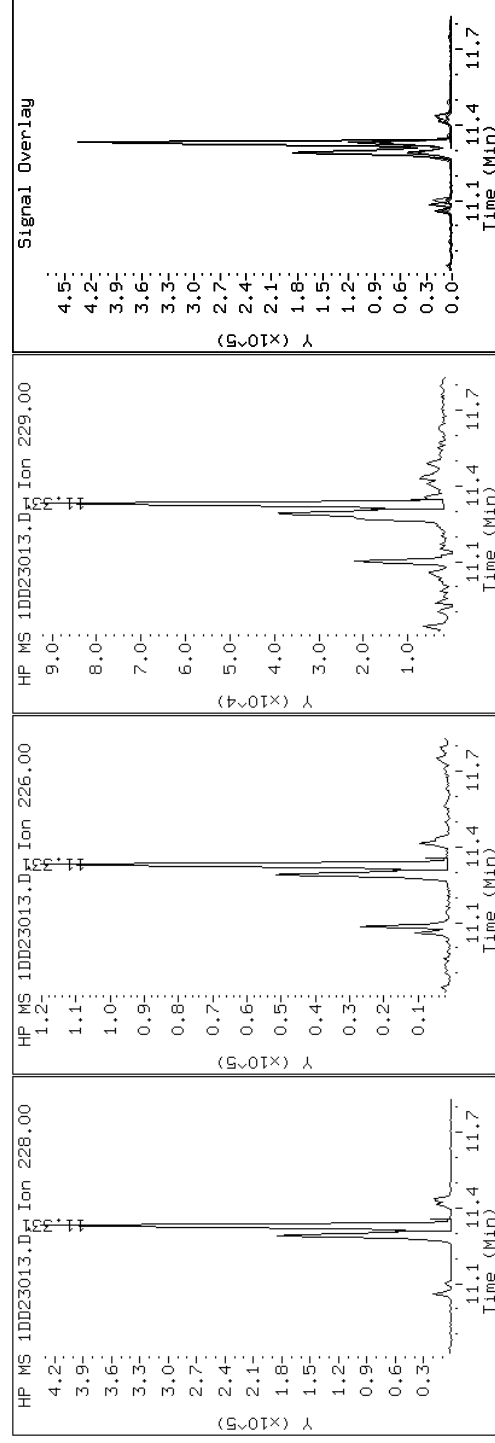
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

18 Chrysene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

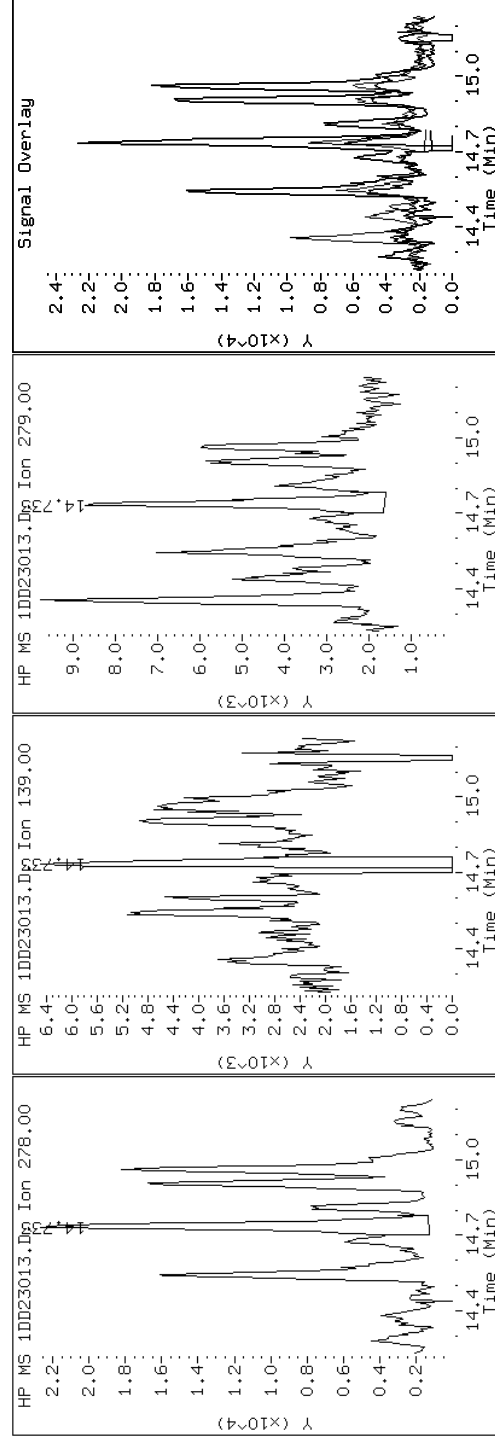
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

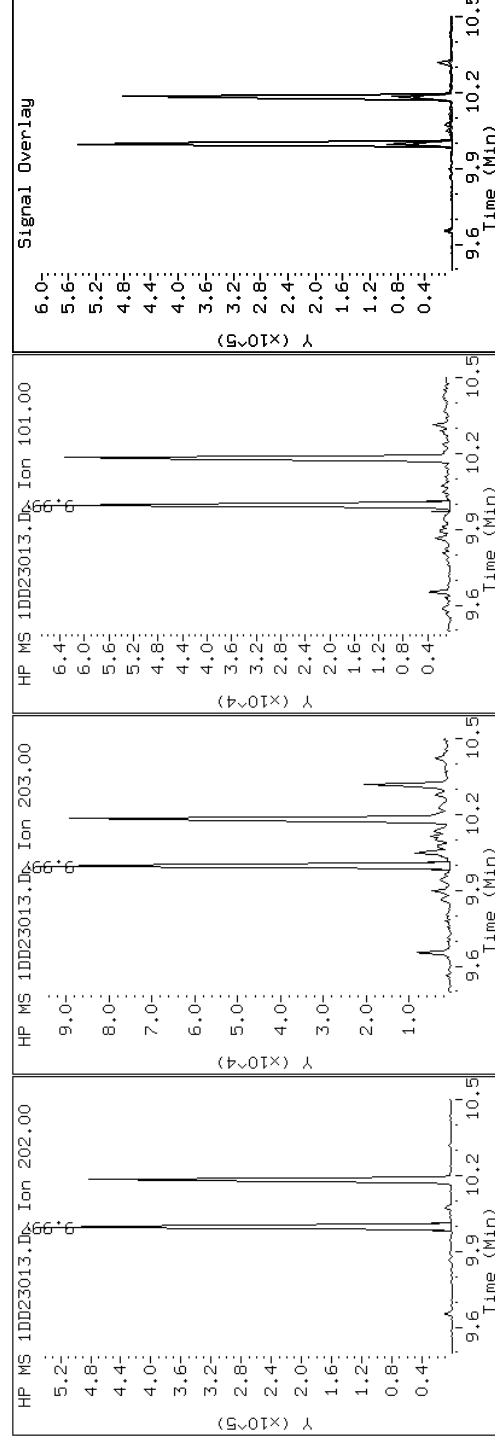
Client ID: FM0342B-CS

Sample Info: 680-89459-A-10-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

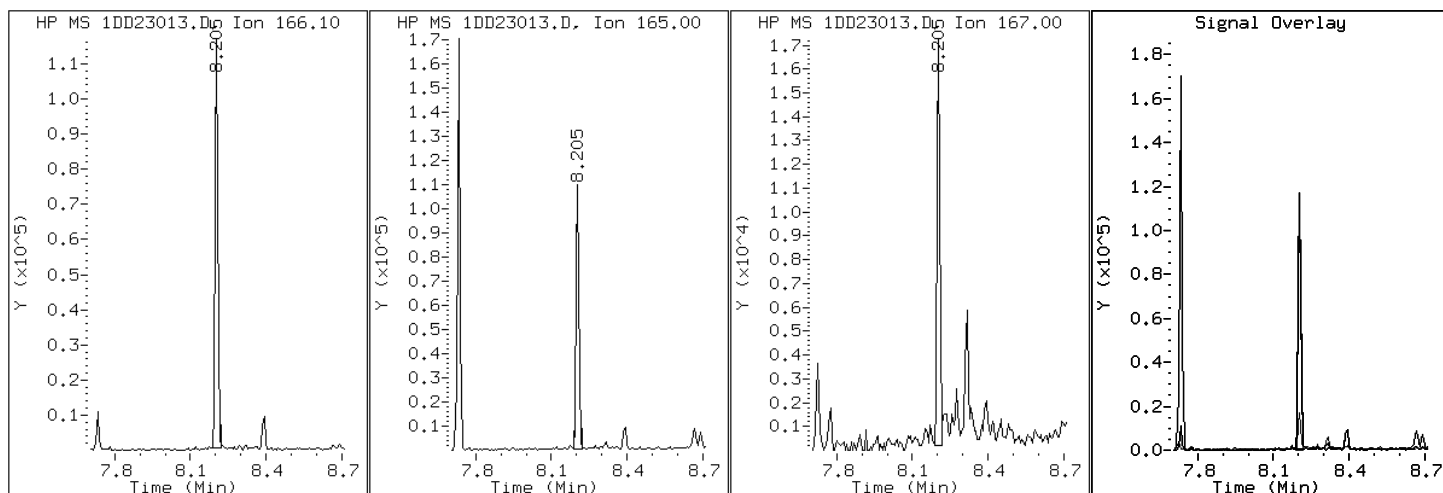
Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC

8 Fluorene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

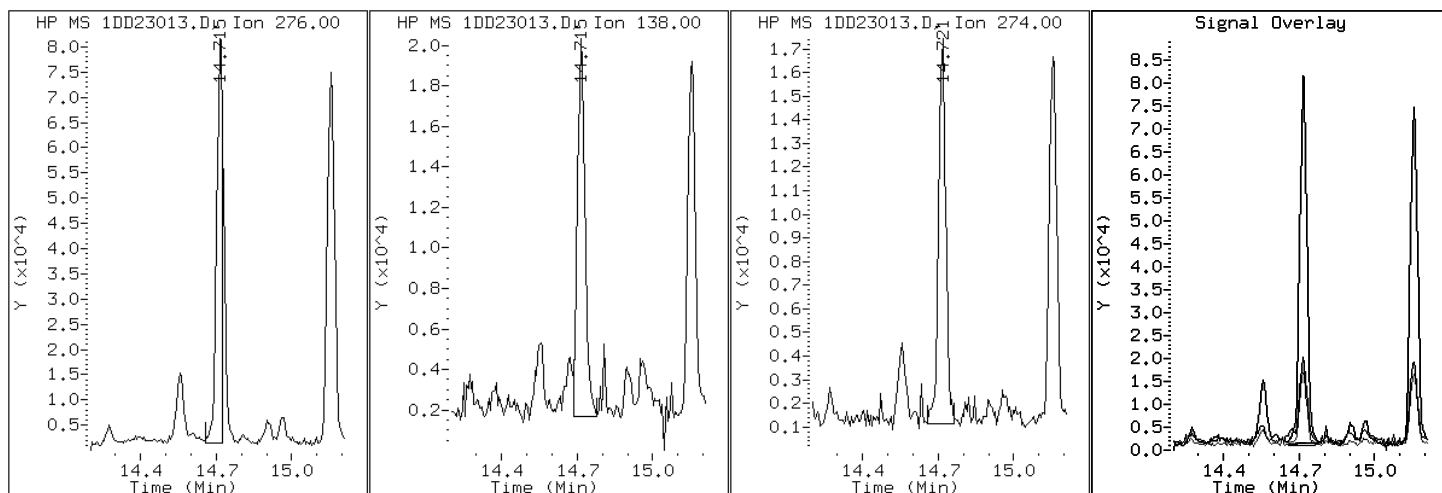
Client ID: FM0342B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-10-A

Operator: SCC

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



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

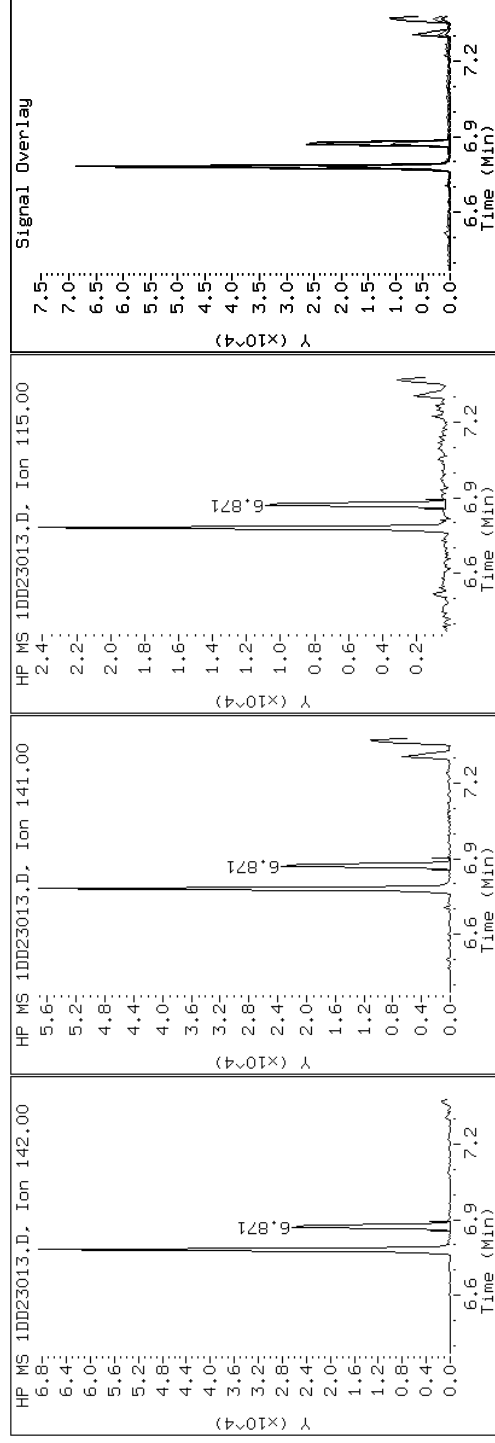
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

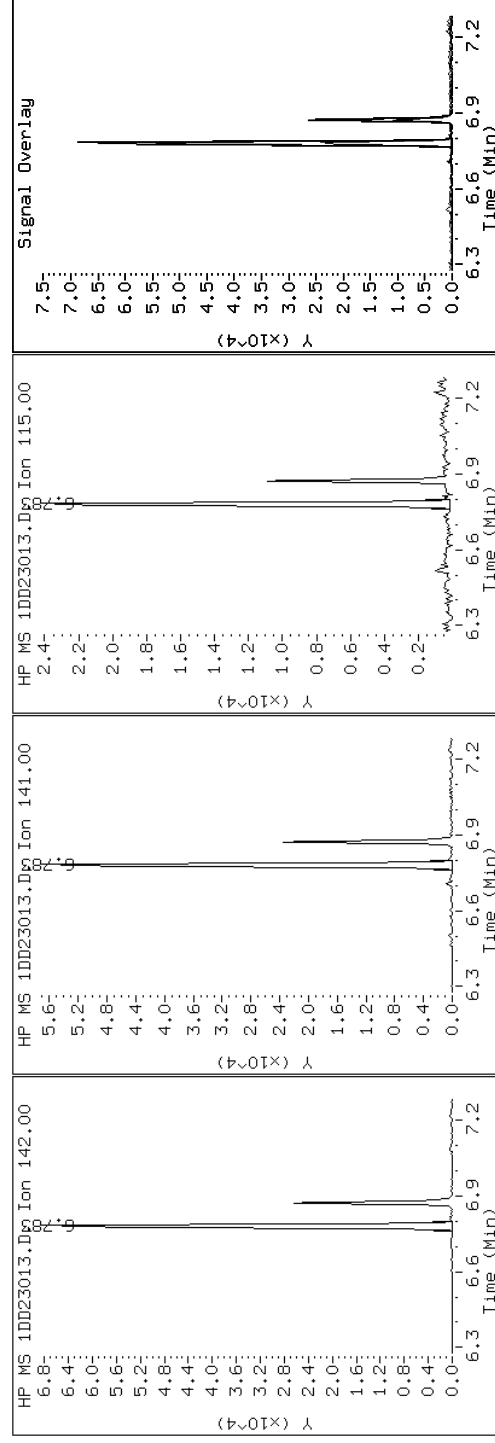
Client ID: FM0342B-CS

Sample Info: 680-89459-A-10-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

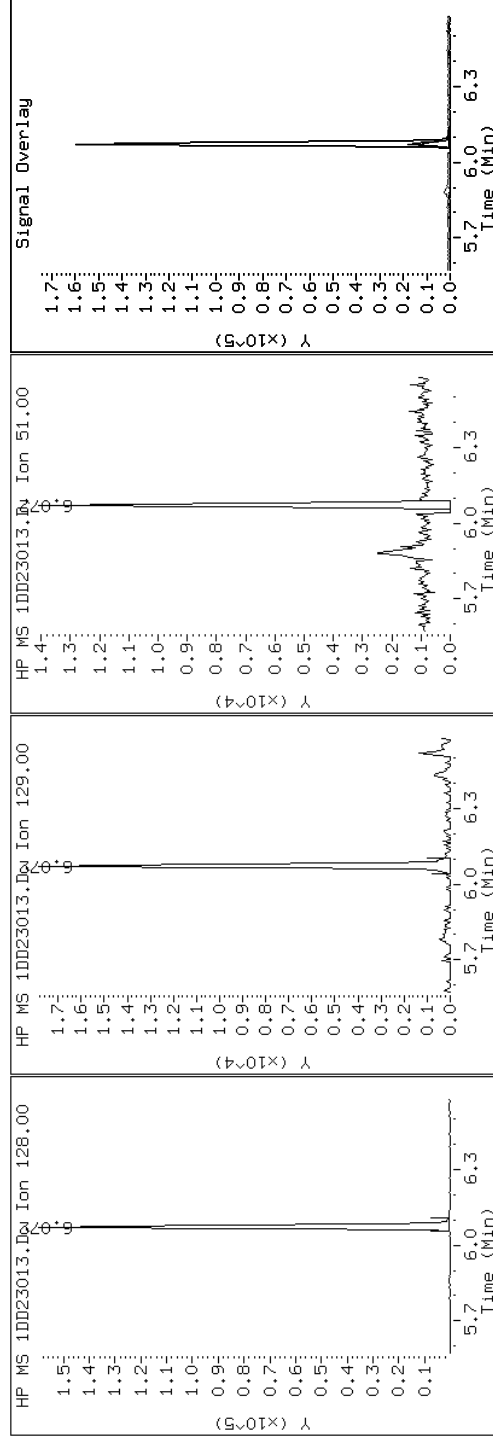
Client ID: FM0342B-CS

Sample Info: 680-89459-A-10-A

Instrument: BSMSD.i

Operator: SCC

2 Naphthalene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

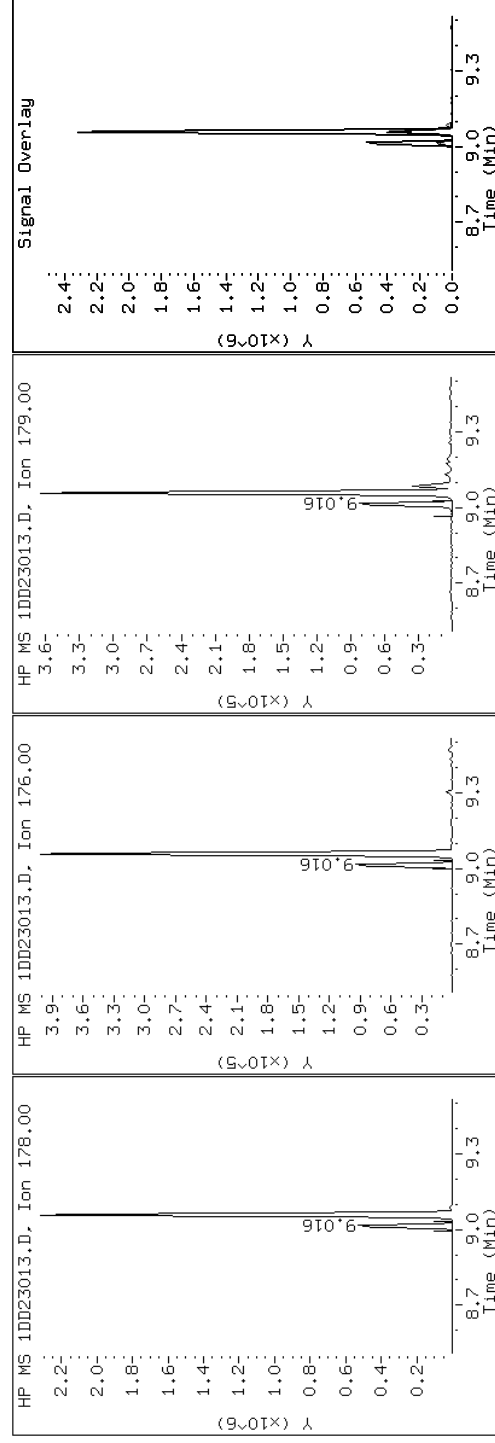
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23013.D

Date: 23-APR-2013 17:29

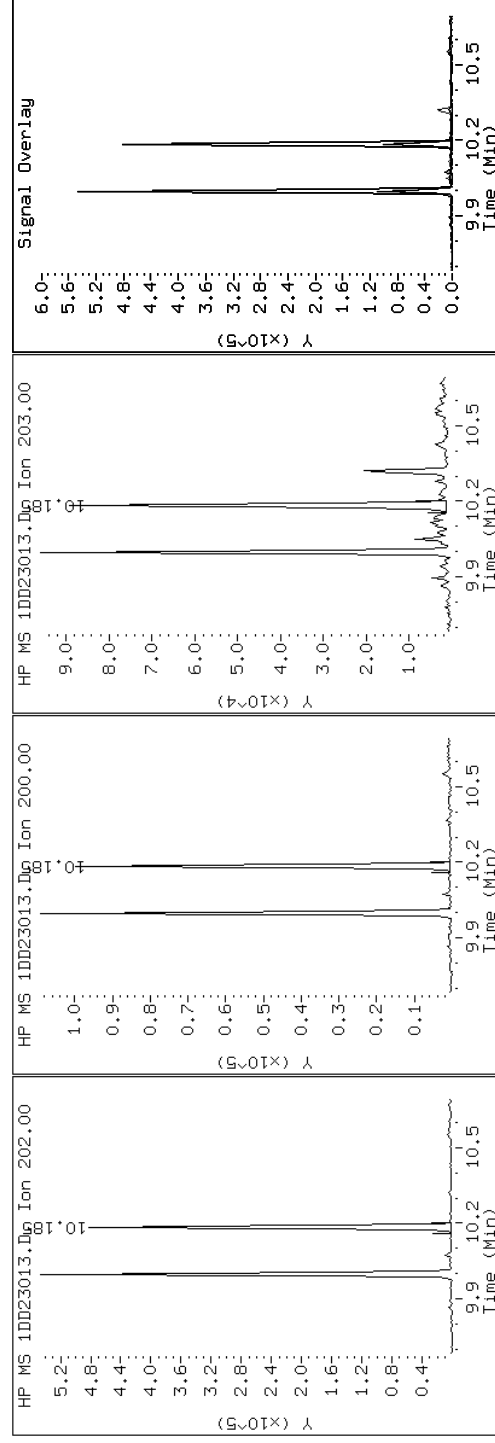
Client ID: FM0342B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-10-A

Operator: SCC

15 Pyrene

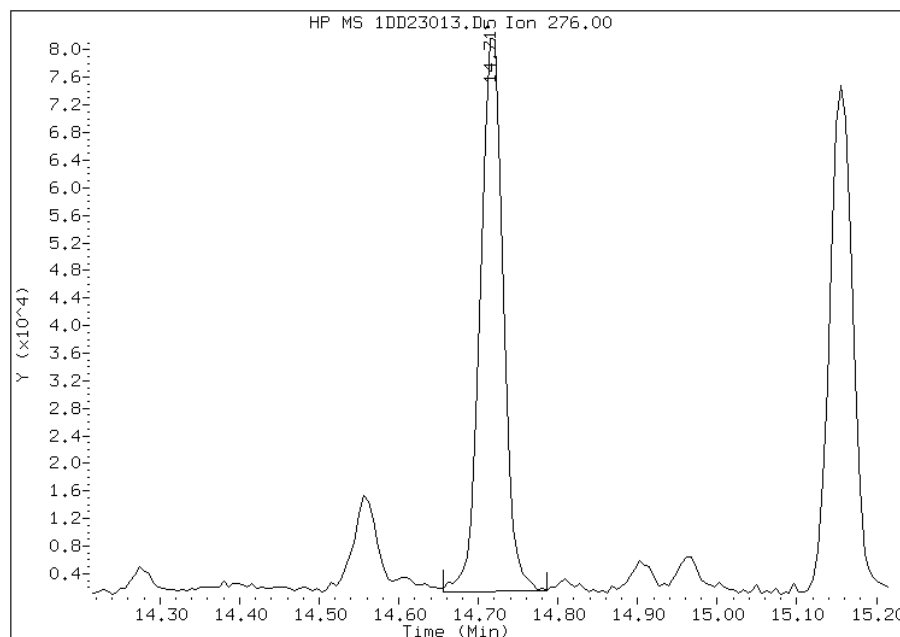


Manual Integration Report

Data File: 1DD23013.D
Inj. Date and Time: 23-APR-2013 17:29
Instrument ID: BSMSD.i
Client ID: FM0342B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

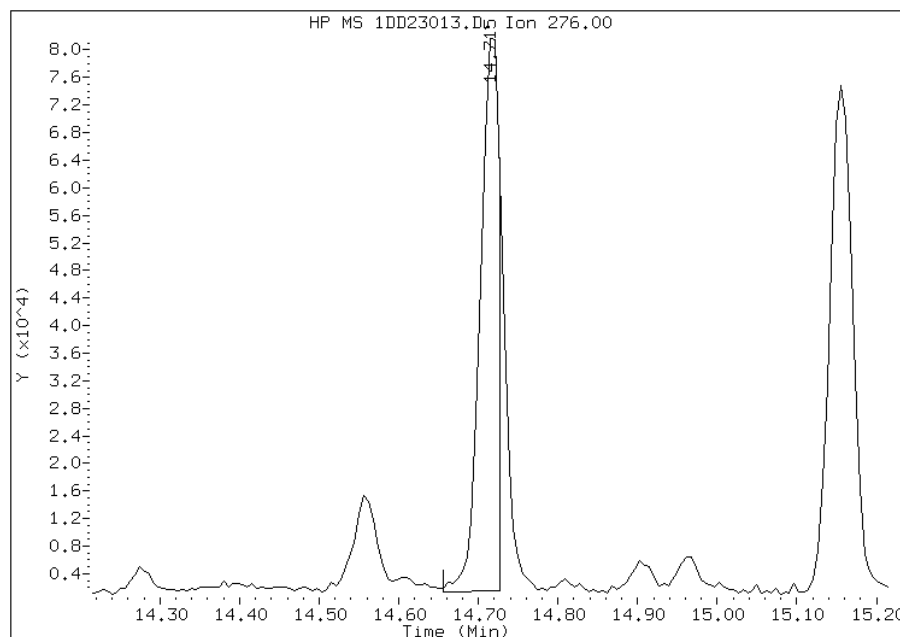
Processing Integration Results

RT: 14.71
Response: 160164
Amount: 3
Conc: 259



Manual Integration Results

RT: 14.71
Response: 133630
Amount: 3
Conc: 216



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1066A-CS-SP</u>	Lab Sample ID: <u>680-89459-11</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 11:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.95(g)</u>	Date Analyzed: <u>04/23/2013 17:52</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>19.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	34	J	200	25
120-12-7	Anthracene	68		42	21
56-55-3	Benzo[a]anthracene	210		40	20
50-32-8	Benzo[a]pyrene	190		52	26
205-99-2	Benzo[b]fluoranthene	350		61	31
191-24-2	Benzo[g,h,i]perylene	160		100	22
207-08-9	Benzo[k]fluoranthene	110		40	18
218-01-9	Chrysene	280		45	23
53-70-3	Dibenz(a,h)anthracene	63	J	100	21
206-44-0	Fluoranthene	260		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	120		100	36
90-12-0	1-Methylnaphthalene	170	J	200	22
91-57-6	2-Methylnaphthalene	200		200	36
91-20-3	Naphthalene	130	J	200	22
85-01-8	Phenanthrene	250		40	20
129-00-0	Pyrene	200		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23014.D
 Lab Smp Id: 680-89459-A-11-A Client Smp ID: CV1066A-CS-SP
 Inj Date : 23-APR-2013 17:52
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-11-A
 Misc Info : 680-89459-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 13
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	19.785	% 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		6.056	6.051	(1.000)		1723817	40.0000	
* 6 Acenaphthene-d10	164		7.736	7.732	(1.000)		966187	40.0000	
* 9 Phenanthrene-d10	188		8.994	8.995	(1.000)		1579778	40.0000	
\$ 13 o-Terphenyl	230		9.305	9.306	(1.035)		35044	1.47225	490
* 17 Chrysene-d12	240		11.309	11.304	(1.000)		1734289	40.0000	
* 22 Perylene-d12	264		13.136	13.120	(1.000)		2033652	40.0000	
2 Naphthalene	128		6.074	6.075	(1.003)		16091	0.37555	120
3 2-Methylnaphthalene	142		6.784	6.780	(1.120)		16699	0.60375	200
4 1-Methylnaphthalene	142		6.873	6.874	(1.135)		13578	0.51984	170
5 Acenaphthylene	152		7.607	7.608	(0.983)		4111	0.10053	34
8 Fluorene	166		8.206	8.208	(1.061)		973	0.03255	11(Q)
10 Phenanthrene	178		9.011	9.013	(1.002)		32712	0.75175	250
11 Anthracene	178		9.052	9.054	(1.007)		8844	0.20477	68(Q)
12 Carbazole	167		9.193	9.195	(1.022)		4176	0.10962	36

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.998	10.000	(1.112)	34402	0.76827	260
15 Pyrene	202	10.186	10.188	(0.901)	31953	0.61353	200
16 Benzo(a)anthracene	228	11.291	11.287	(0.998)	30930	0.61685	200
18 Chrysene	228	11.326	11.328	(1.002)	39478	0.83969	280
19 Benzo(b)fluoranthene	252	12.584	12.585	(0.958)	52969	1.04267	350
20 Benzo(k)fluoranthene	252	12.619	12.620	(0.961)	18069	0.33762	110
21 Benzo(a)pyrene	252	13.030	13.032	(0.992)	28909	0.56636	190
23 Indeno(1,2,3-cd)pyrene	276	14.705	14.706	(1.119)	19876	0.36518	120(M)
24 Dibenzo(a,h)anthracene	278	14.728	14.735	(1.121)	9619	0.18768	62(H)
25 Benzo(g,h,i)perylene	276	15.139	15.141	(1.153)	24615	0.46970	160(MH)

QC Flag Legend

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

Data File: 1DD23014.D

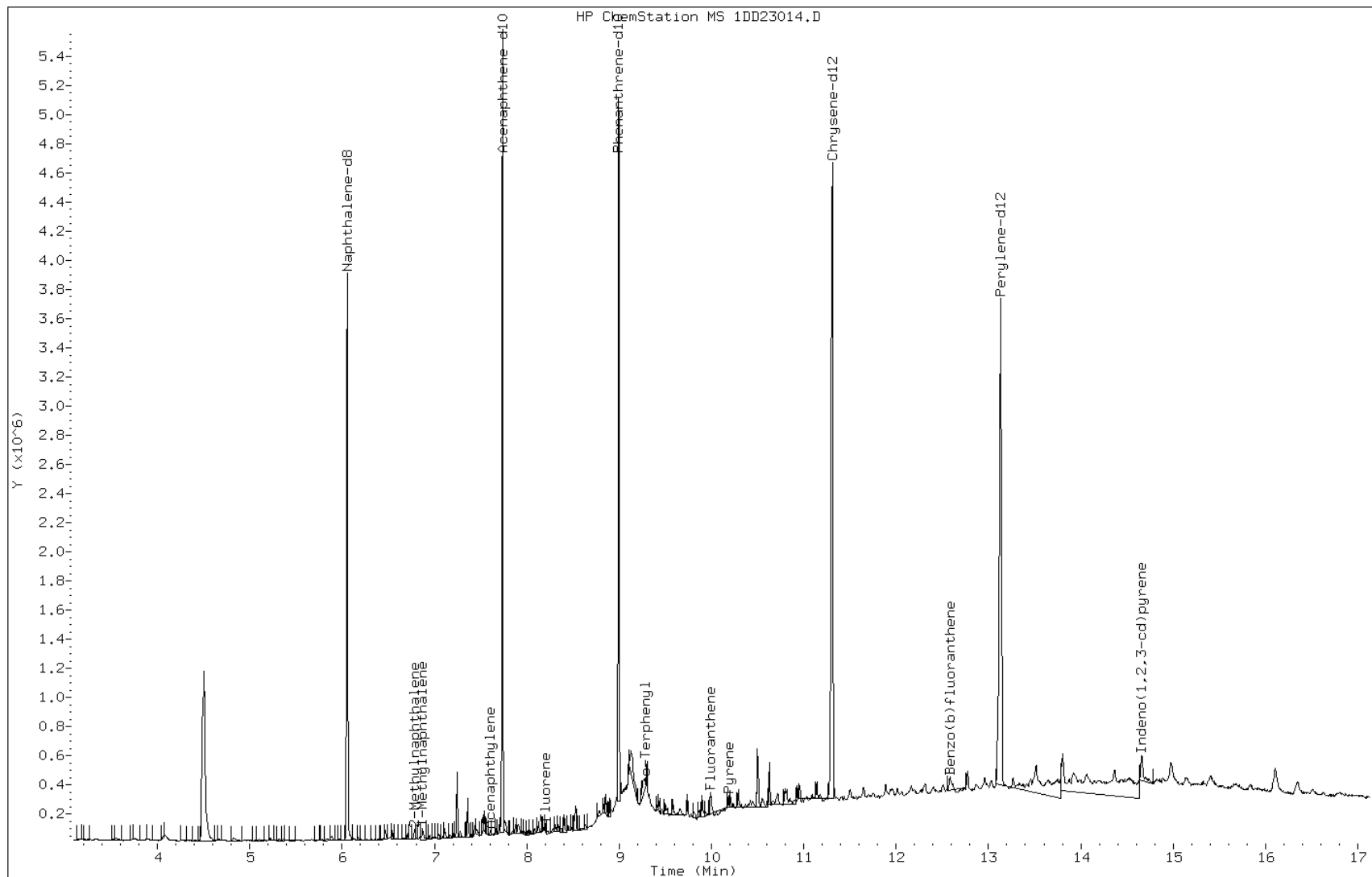
Date: 23-APR-2013 17:52

Client ID: CV1066A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-11-A

Operator: SCC



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

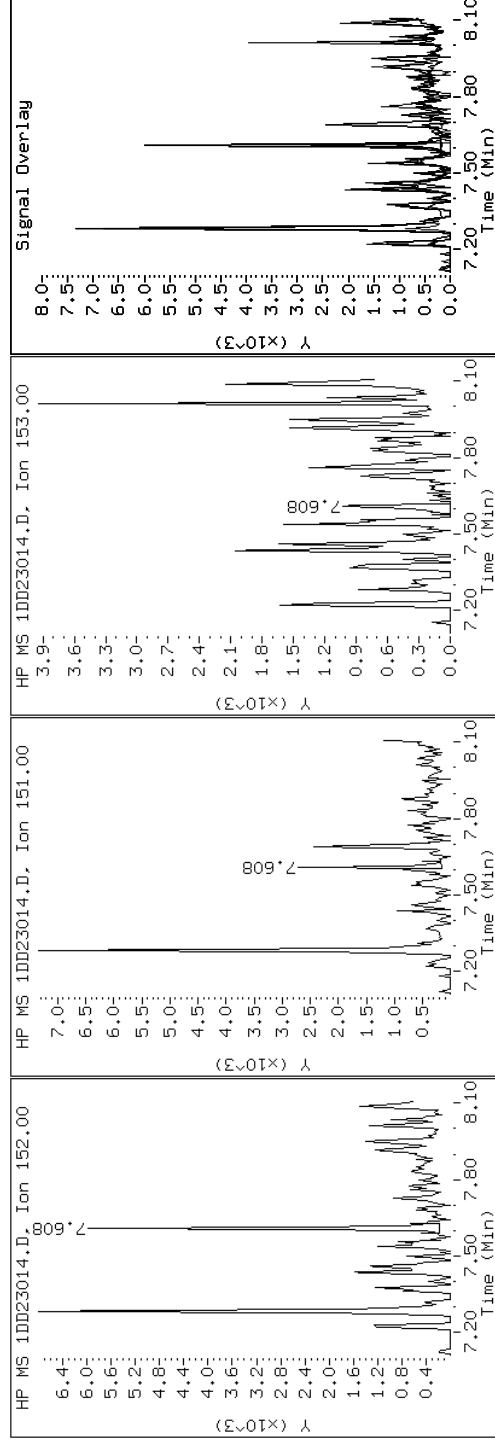
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

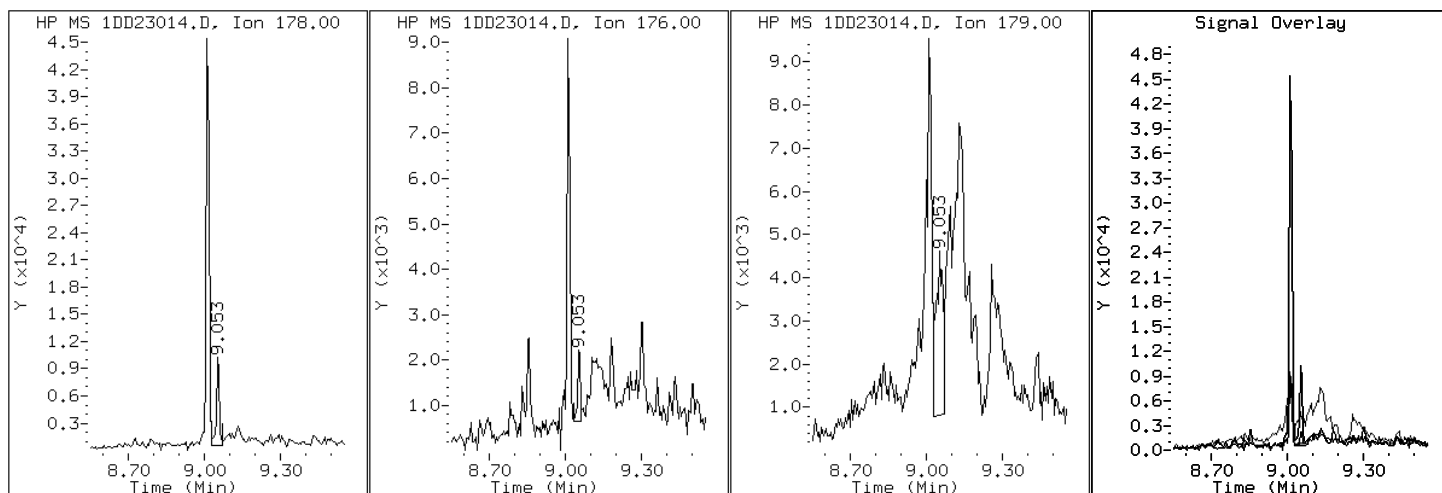
Client ID: CV1066A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-11-A

Operator: SCC

11 Anthracene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

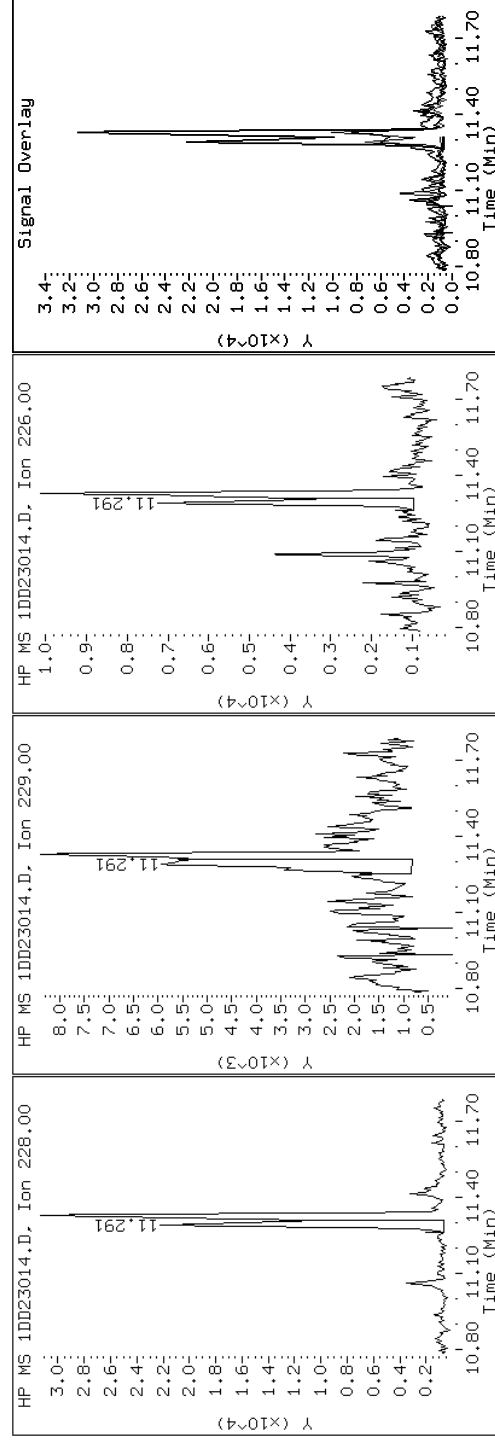
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMSD.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

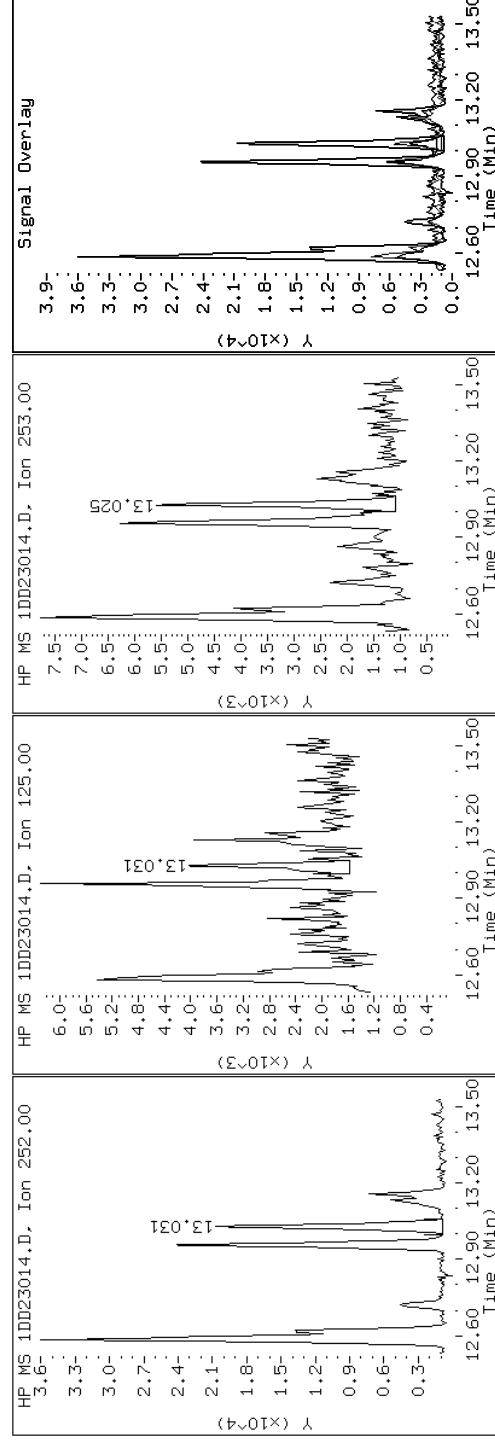
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

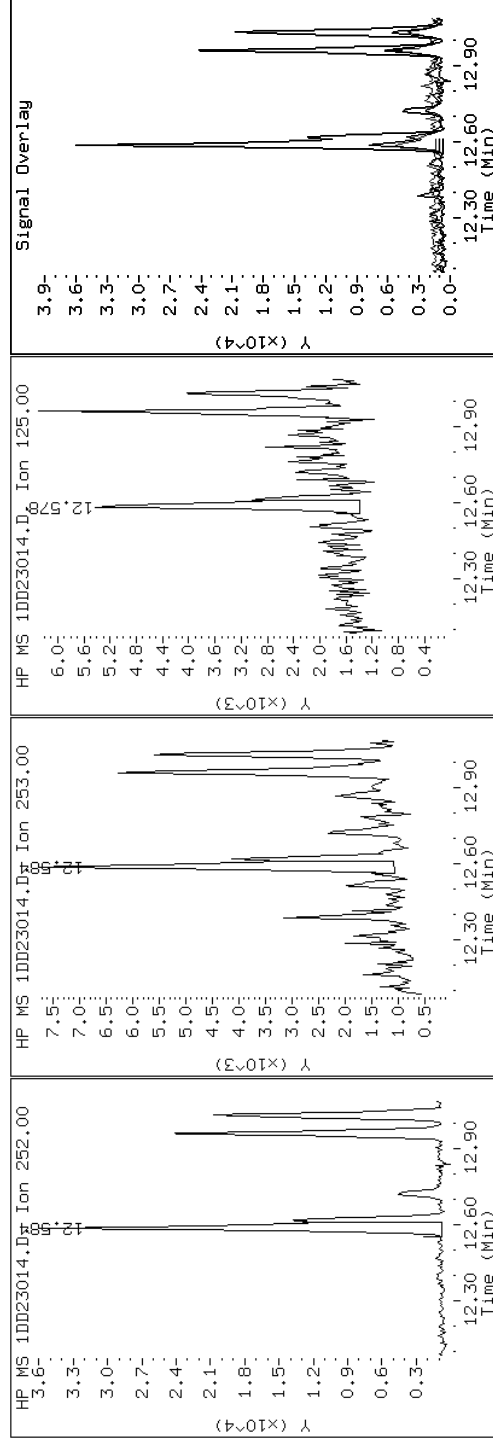
Client ID: CV1066A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-11-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

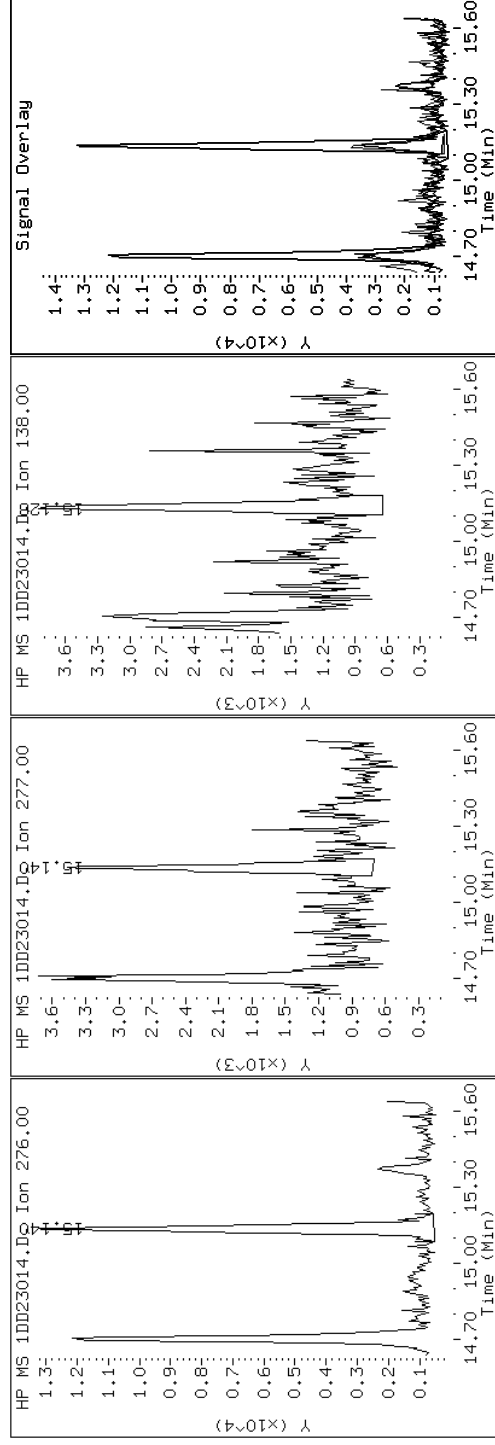
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

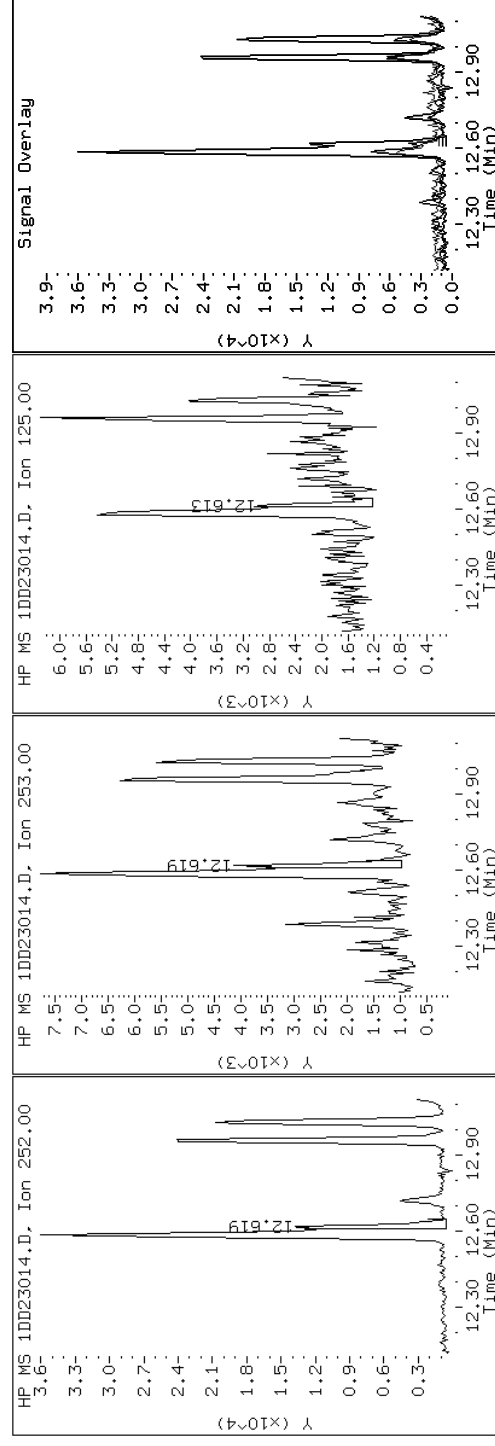
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMSD.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

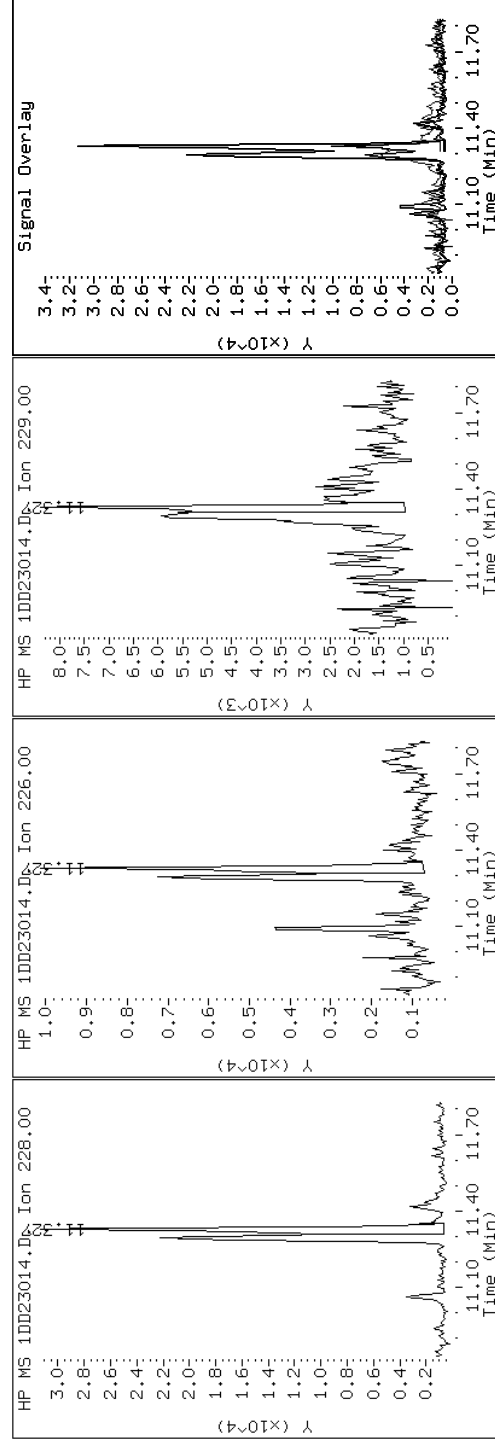
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

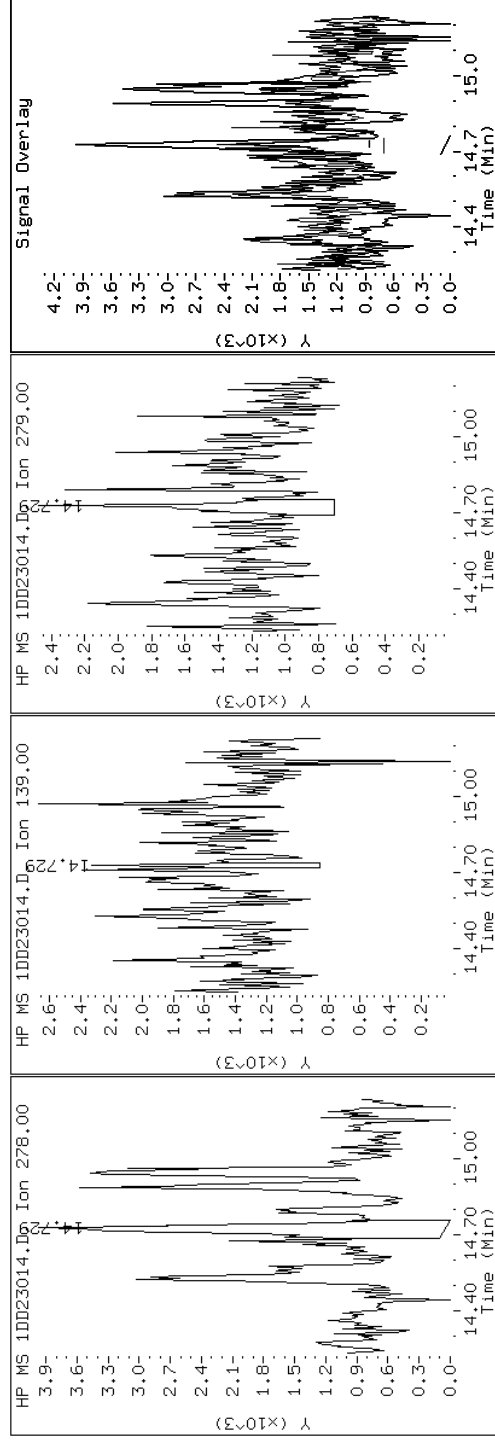
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

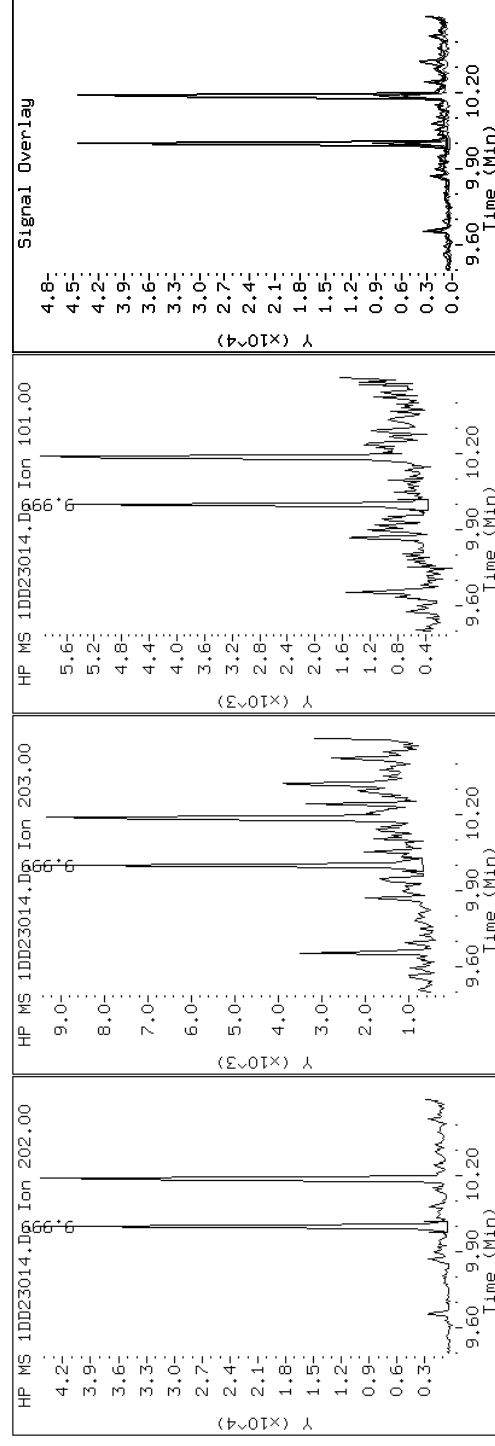
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

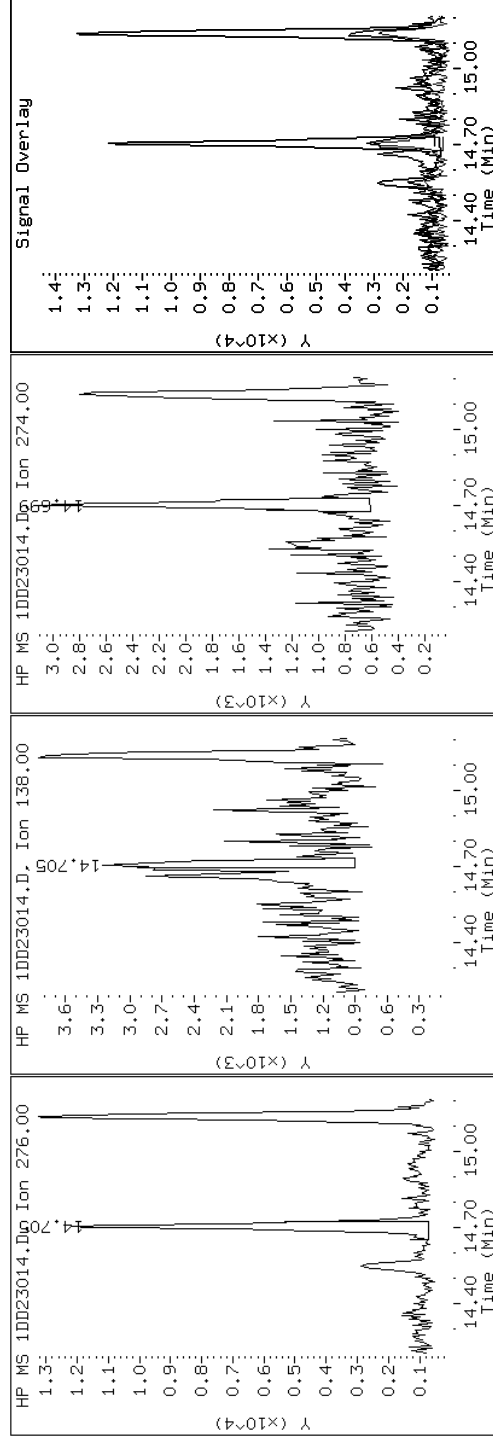
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

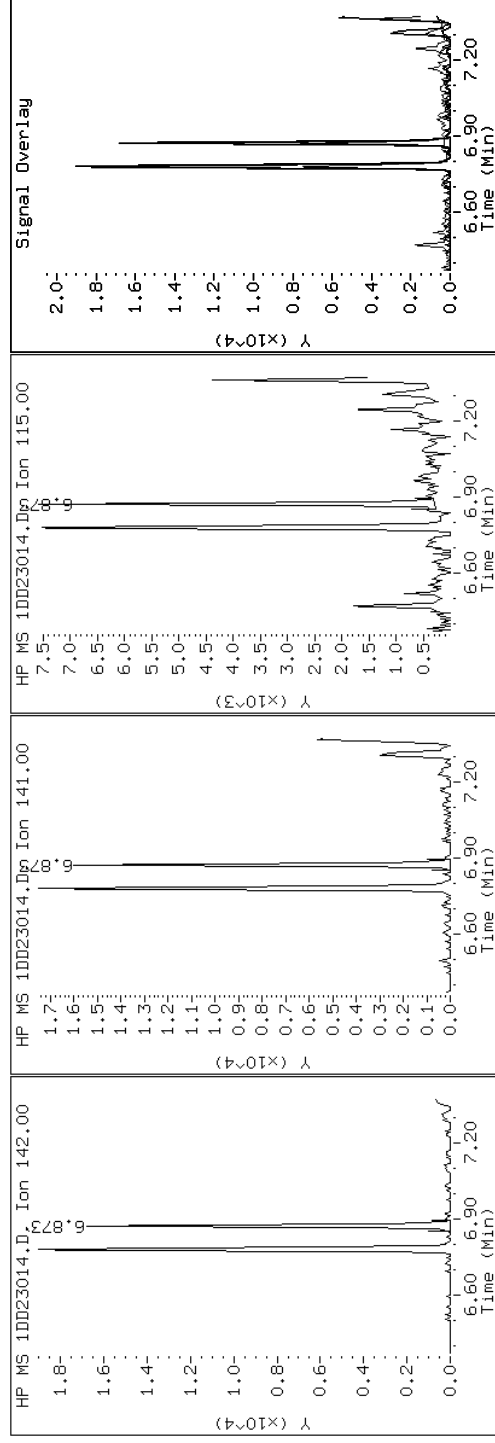
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

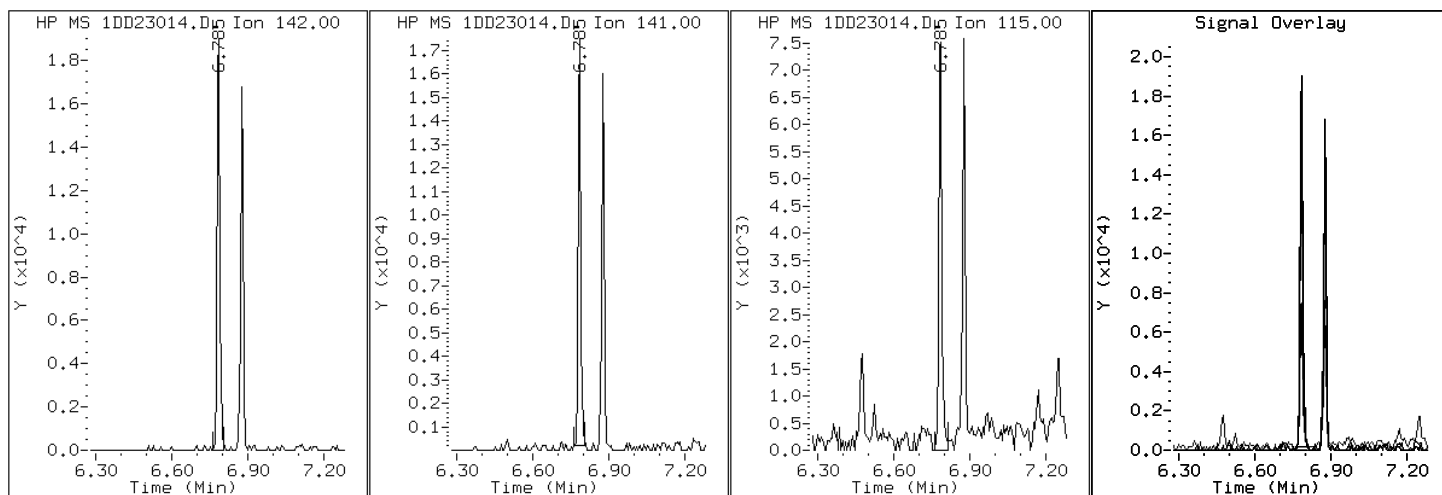
Client ID: CV1066A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-11-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

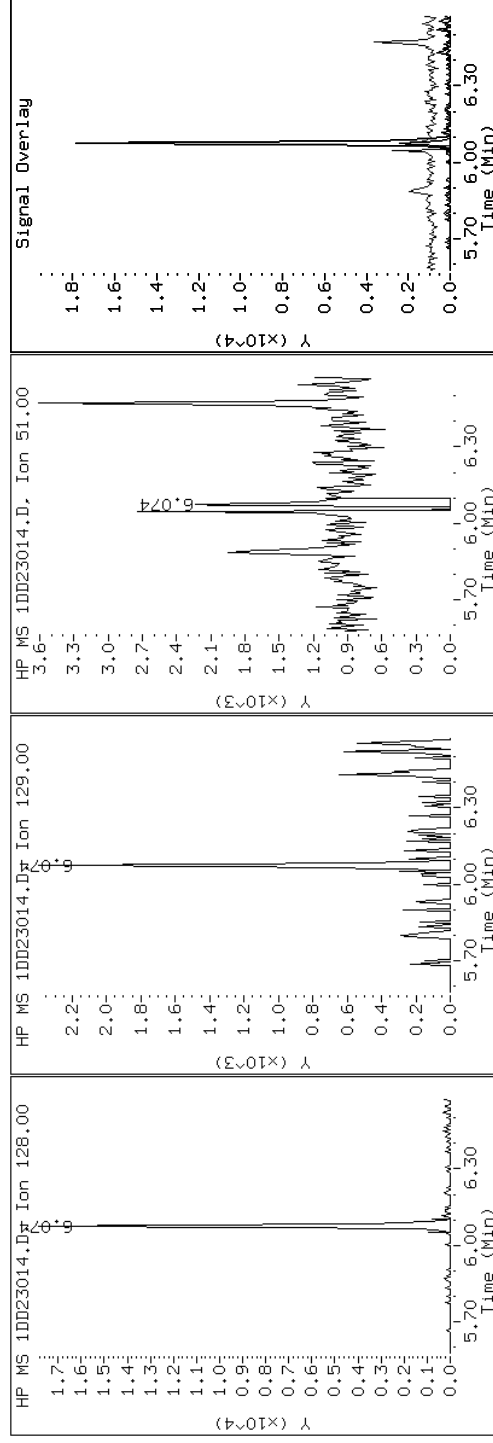
Client ID: CV1066A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-11-A

Operator: SCC

2 Naphthalene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

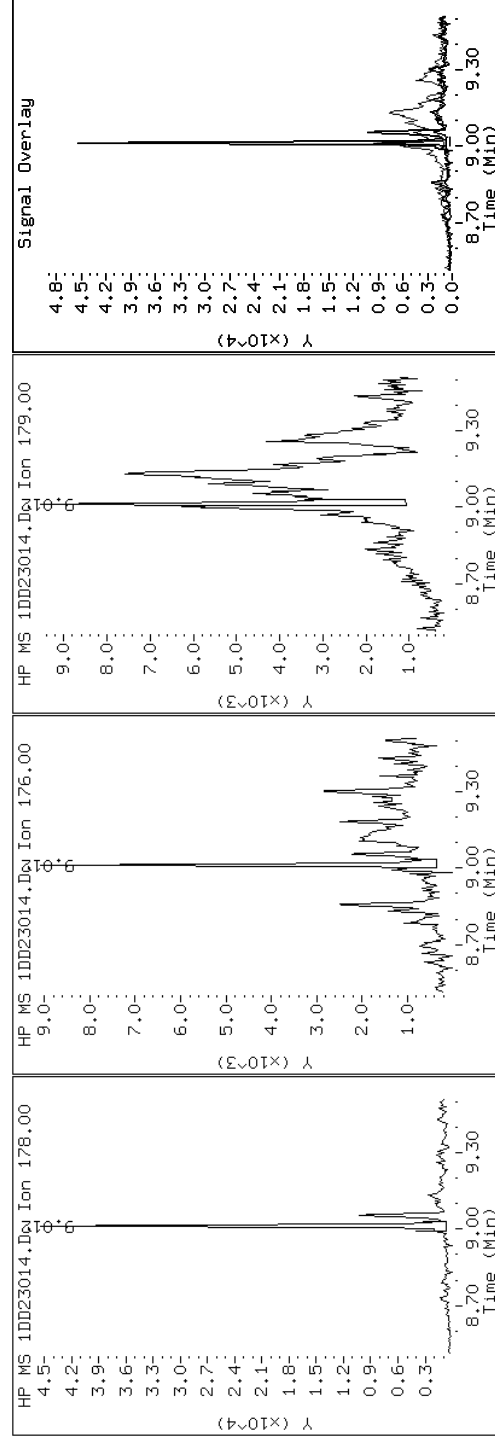
Client ID: CV1066A-CS-SP

Sample Info: 680-89459-A-11-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23014.D

Date: 23-APR-2013 17:52

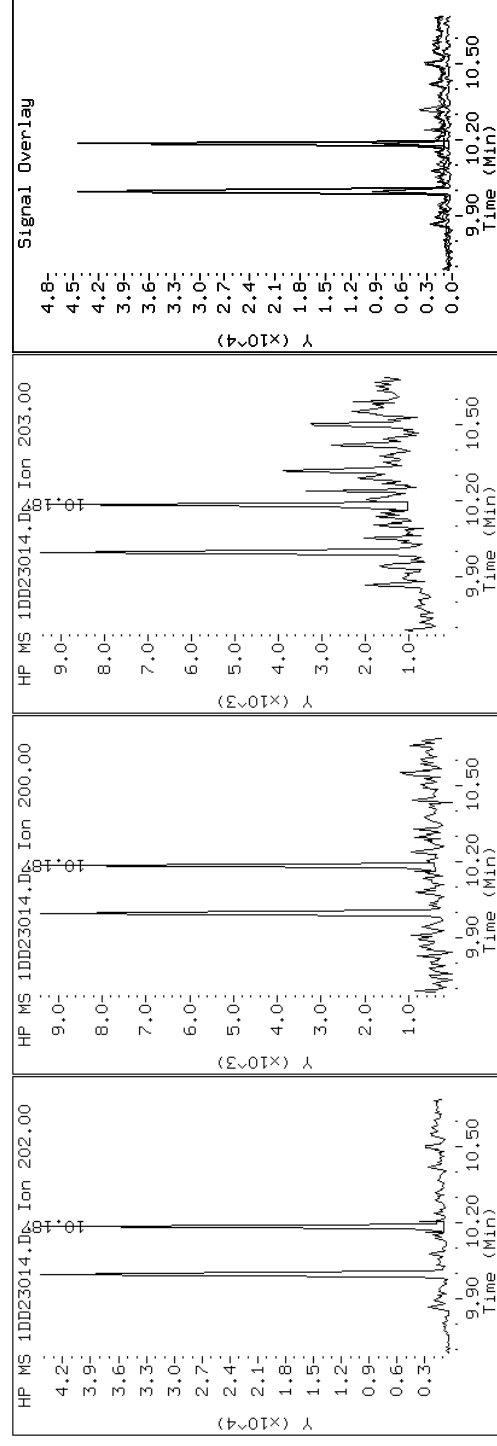
Client ID: CV1066A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-11-A

Operator: SCC

15 Pyrene

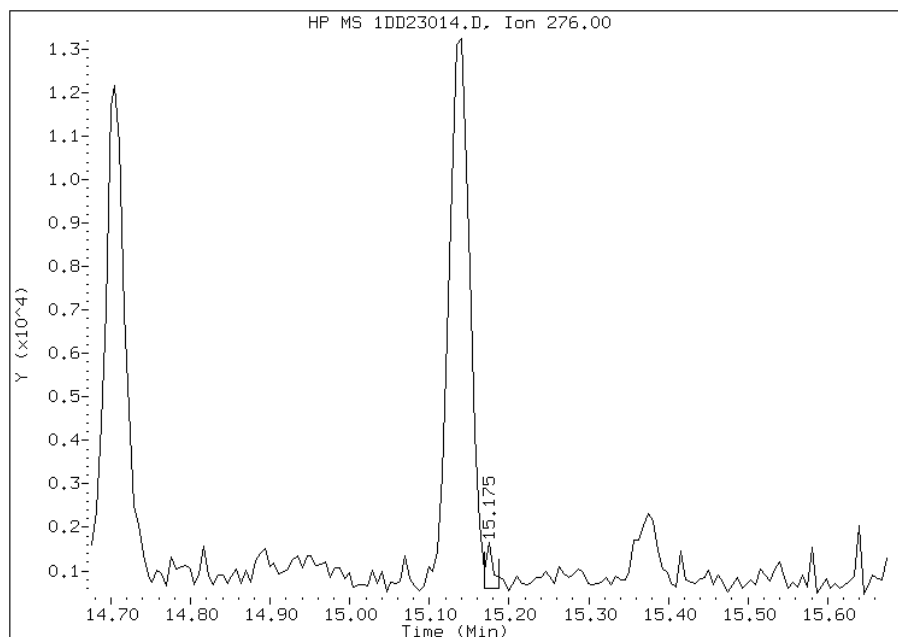


Manual Integration Report

Data File: 1DD23014.D
Inj. Date and Time: 23-APR-2013 17:52
Instrument ID: BSMSD.i
Client ID: CV1066A-CS-SP
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

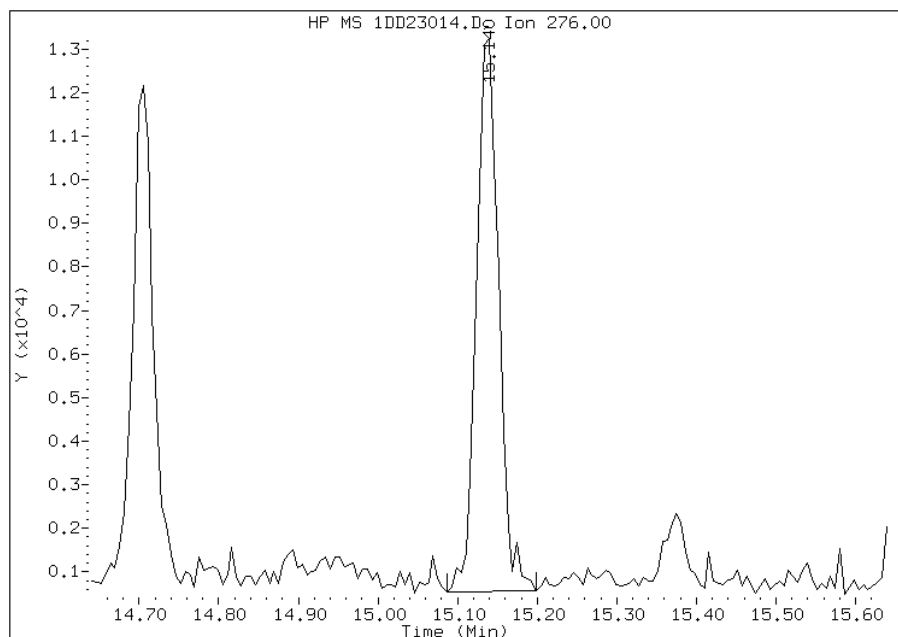
Processing Integration Results

RT: 15.18
Response: 702
Amount: 0
Conc: 4



Manual Integration Results

RT: 15.14
Response: 24615
Amount: 0
Conc: 157



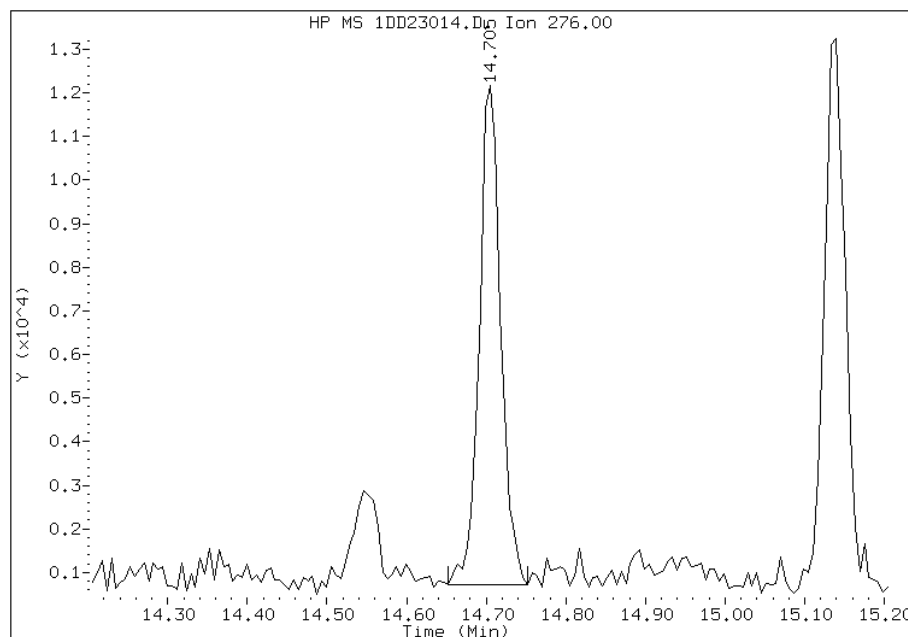
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD23014.D
Inj. Date and Time: 23-APR-2013 17:52
Instrument ID: BSMSD.i
Client ID: CV1066A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

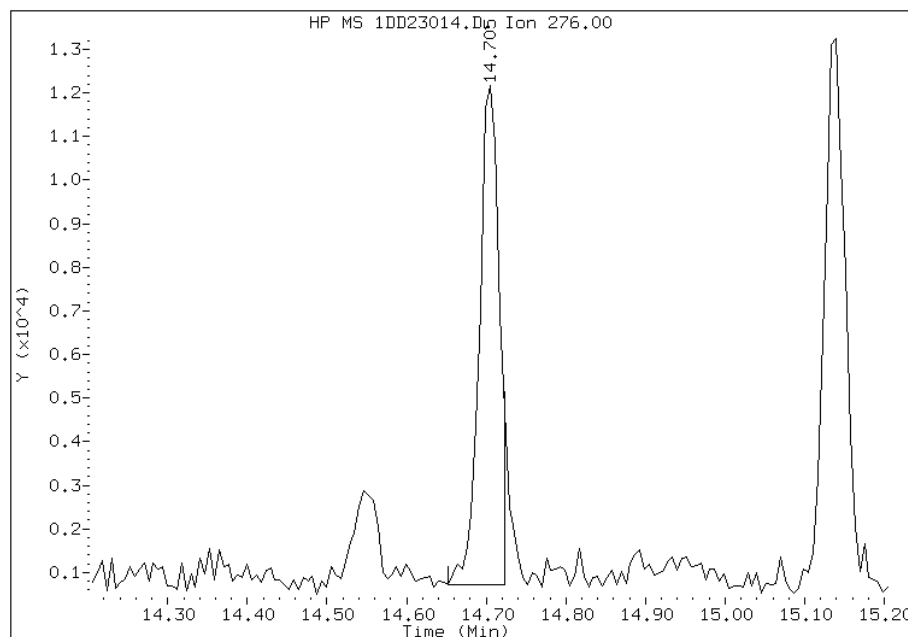
Processing Integration Results

RT: 14.71
Response: 21280
Amount: 0
Conc: 130



Manual Integration Results

RT: 14.71
Response: 19876
Amount: 0
Conc: 122



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1066B-CS-SP</u>	Lab Sample ID: <u>680-89459-12</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 11:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.08(g)</u>	Date Analyzed: <u>04/24/2013 17:40</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>22.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	81	J	210	26
120-12-7	Anthracene	84		43	22
56-55-3	Benzo[a]anthracene	510	F	41	20
50-32-8	Benzo[a]pyrene	780	F	53	27
205-99-2	Benzo[b]fluoranthene	1200	F	63	31
191-24-2	Benzo[g,h,i]perylene	670	F	100	23
207-08-9	Benzo[k]fluoranthene	380		41	19
218-01-9	Chrysene	660	F	46	23
53-70-3	Dibenz(a,h)anthracene	190		100	21
206-44-0	Fluoranthene	420		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	580	F	100	37
90-12-0	1-Methylnaphthalene	240		210	23
91-57-6	2-Methylnaphthalene	260		210	37
91-20-3	Naphthalene	170	J	210	23
85-01-8	Phenanthrene	260		41	20
129-00-0	Pyrene	410	F	100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24016.D
 Lab Smp Id: 680-89459-A-12-A Client Smp ID: CV1066B-CS-SP
 Inj Date : 24-APR-2013 17:40
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-12-A
 Misc Info : 680-89459-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 16
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	22.635	% 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		6.050	6.049	(1.000)		2509240	40.0000	
* 6 Acenaphthene-d10	164		7.730	7.730	(1.000)		1568970	40.0000	
* 9 Phenanthrene-d10	188		8.993	8.993	(1.000)		2599022	40.0000	
\$ 13 o-Terphenyl	230		9.293	9.298	(1.033)		37903	0.96789	330
* 17 Chrysene-d12	240		11.302	11.302	(1.000)		2569248	40.0000	
* 22 Perylene-d12	264		13.124	13.123	(1.000)		2825104	40.0000	
2 Naphthalene	128		6.067	6.073	(1.003)		30826	0.49426	170
3 2-Methylnaphthalene	142		6.772	6.778	(1.119)		30195	0.74999	260
4 1-Methylnaphthalene	142		6.866	6.872	(1.135)		26938	0.70852	240
5 Acenaphthylene	152		7.601	7.600	(0.983)		15688	0.23625	81
8 Fluorene	166		8.194	8.200	(1.060)		2545	0.05243	18
10 Phenanthrene	178		9.005	9.010	(1.001)		55117	0.76991	260
11 Anthracene	178		9.046	9.052	(1.006)		17455	0.24566	84
12 Carbazole	167		9.187	9.193	(1.022)		7742	0.12353	42

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.986	9.997	(1.110)	89360	1.21300	420
15 Pyrene	202	10.174	10.185	(0.900)	91971	1.19204	410
16 Benzo(a)anthracene	228	11.279	11.284	(0.998)	110093	1.48209	510
18 Chrysene	228	11.320	11.331	(1.002)	133716	1.91982	660
19 Benzo(b)fluoranthene	252	12.571	12.583	(0.958)	253592	3.59339	1200
20 Benzo(k)fluoranthene	252	12.601	12.618	(0.960)	81633	1.09799	380
21 Benzo(a)pyrene	252	13.018	13.029	(0.992)	160472	2.26310	780
23 Indeno(1,2,3-cd)pyrene	276	14.693	14.710	(1.120)	128846	1.70411	580(M)
24 Dibenzo(a,h)anthracene	278	14.710	14.733	(1.121)	40338	0.56655	190
25 Benzo(g,h,i)perylene	276	15.121	15.150	(1.152)	141746	1.94703	670(H)

QC Flag Legend

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

Data File: 1DD24016.D

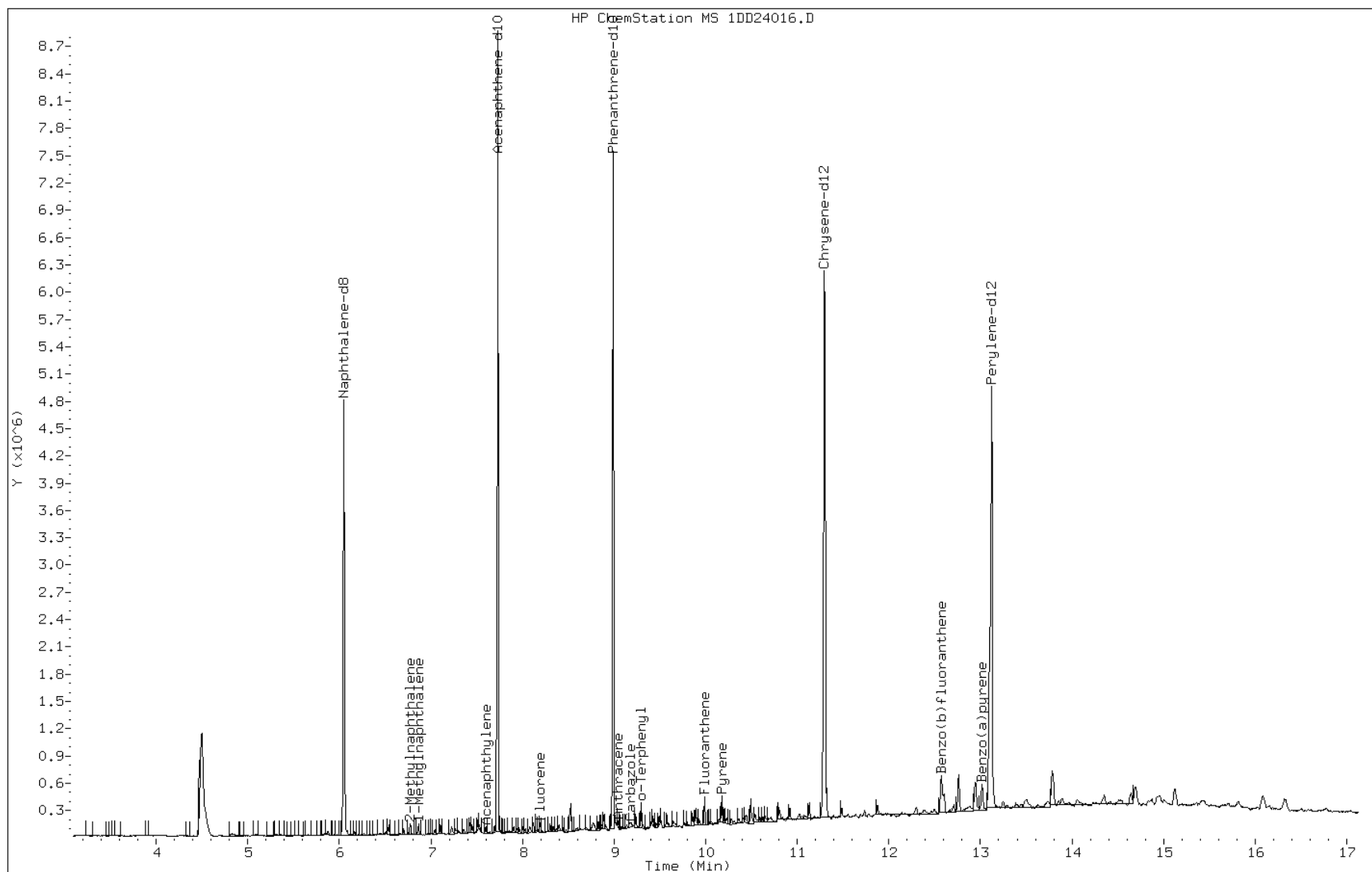
Date: 24-APR-2013 17:40

Client ID: CV1066B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-12-A

Operator: SCC



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

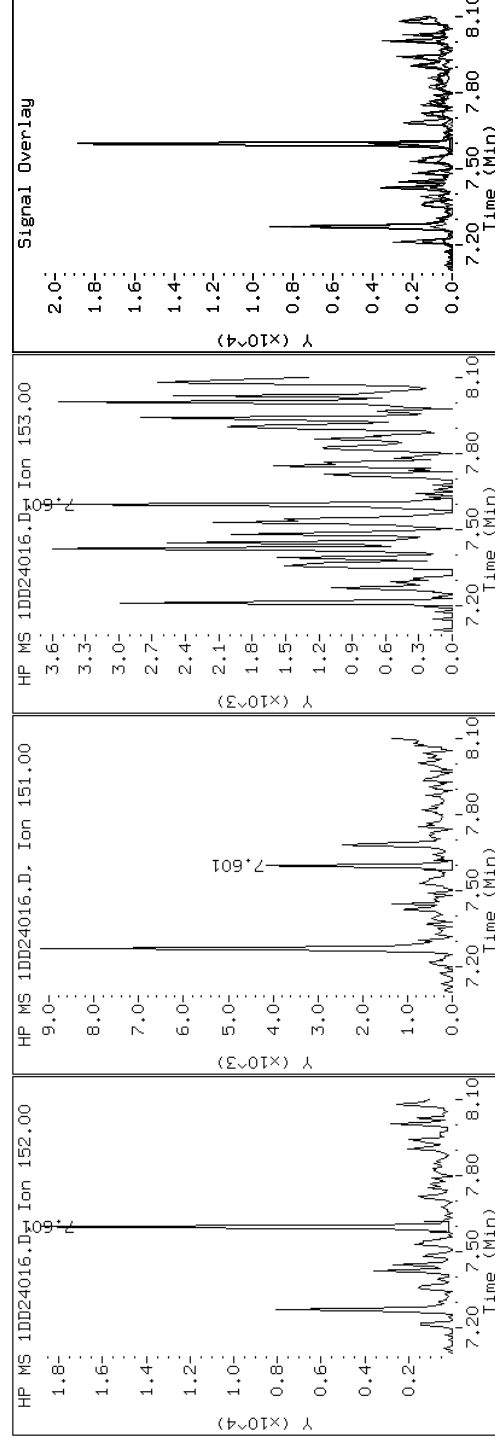
Client ID: CV1066B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-12-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

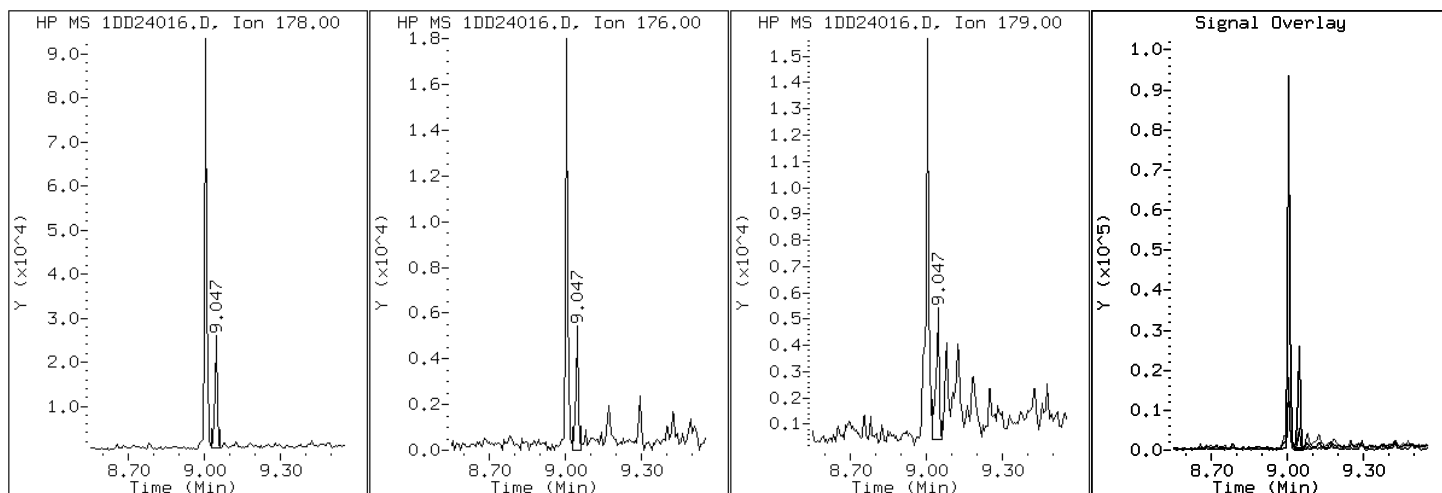
Client ID: CV1066B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-12-A

Operator: SCC

11 Anthracene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

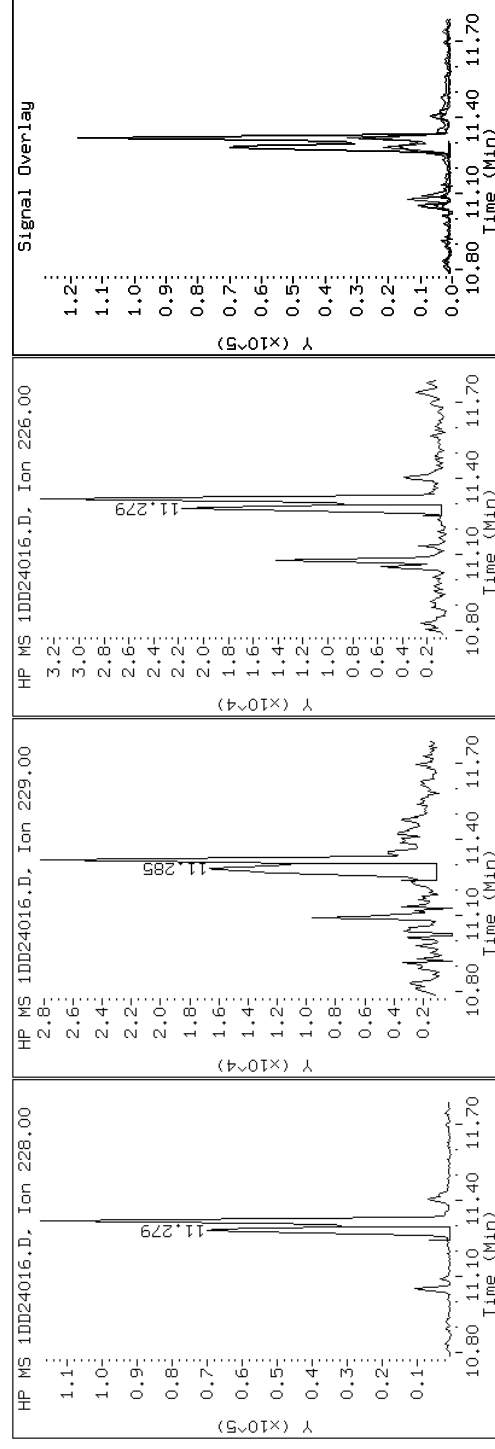
Client ID: CV1066B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-12-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

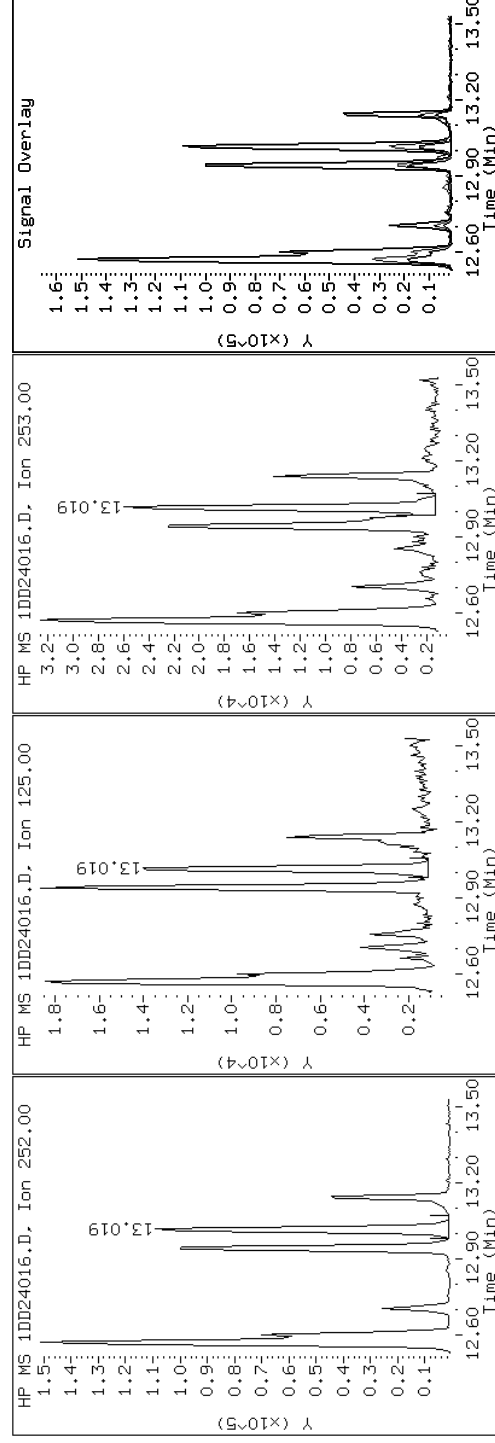
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

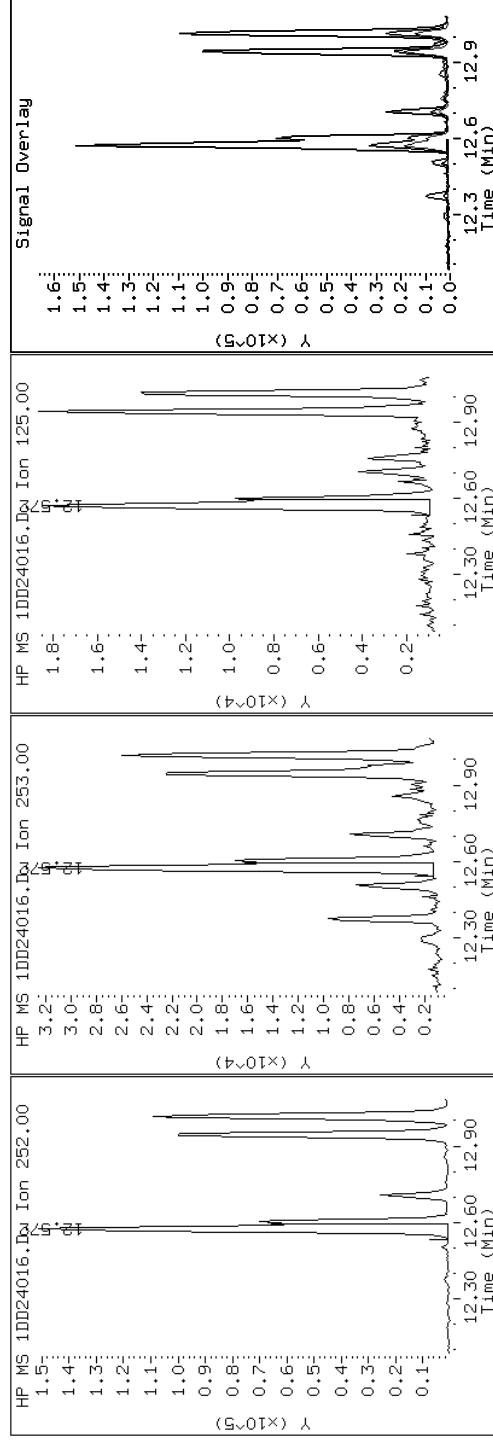
Client ID: CV1066B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-12-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

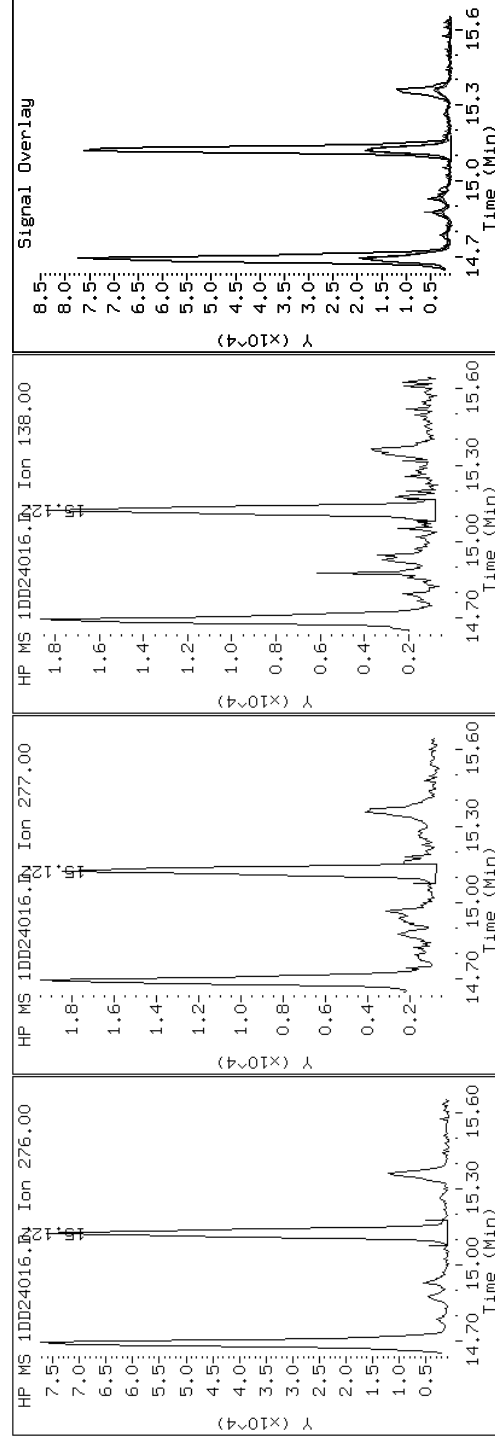
Client ID: CV1066B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-12-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

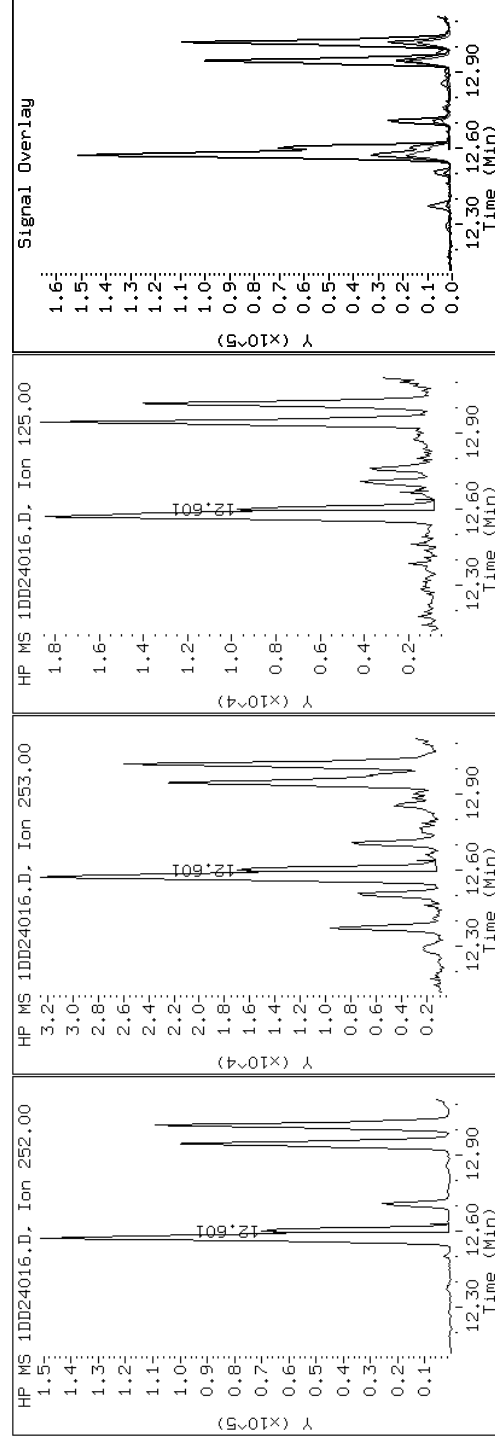
Client ID: CV1066B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-12-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

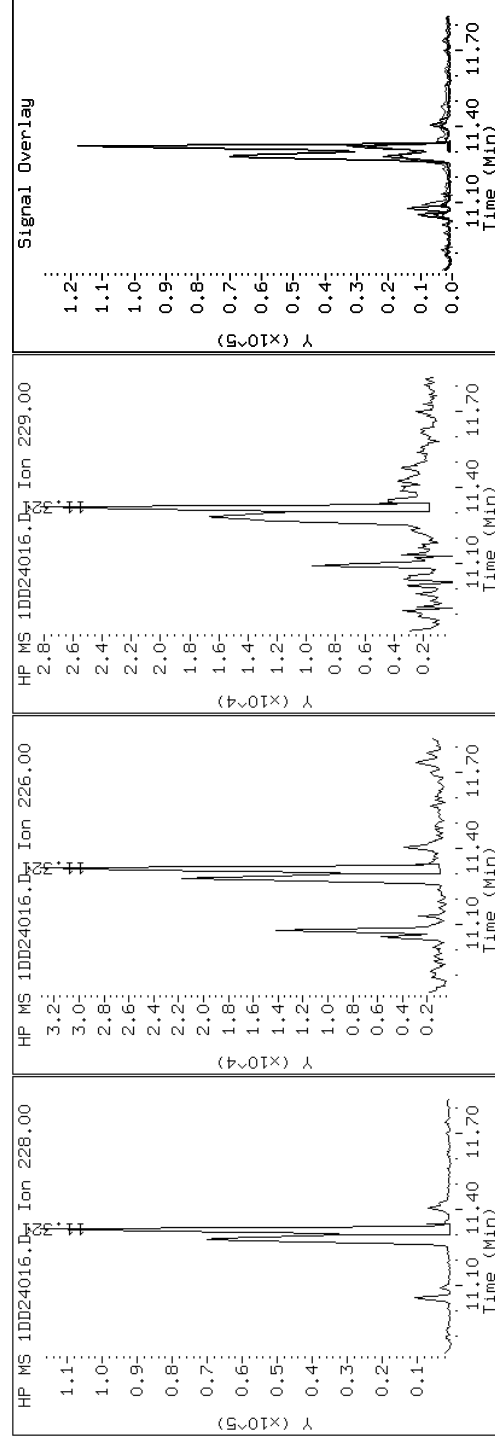
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMDS.i

Operator: SCC

18 Chrysene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

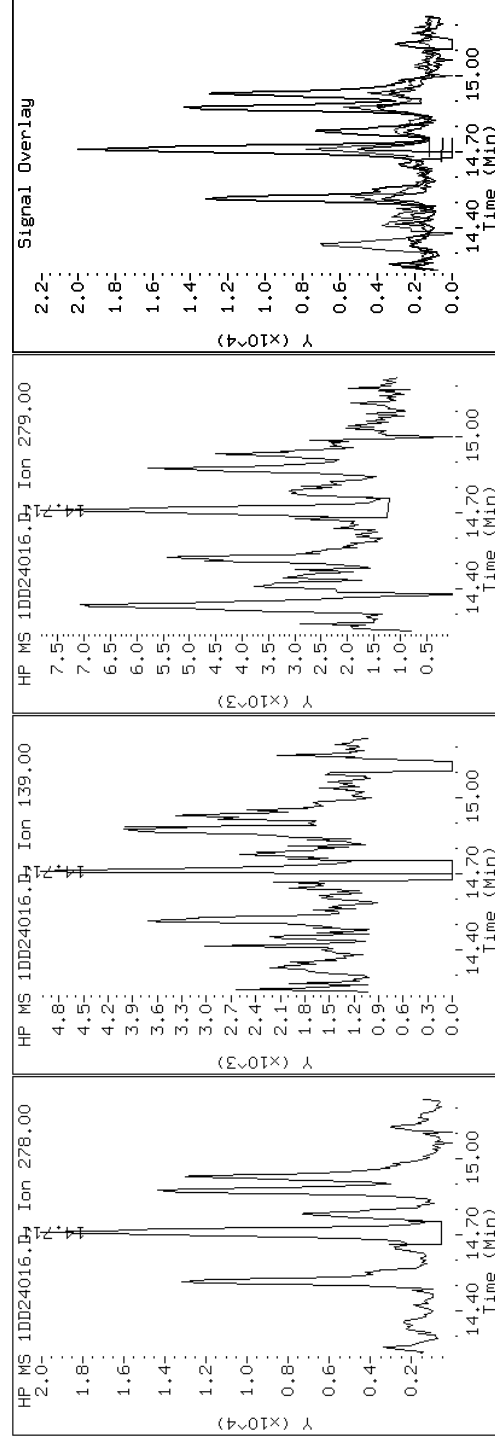
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

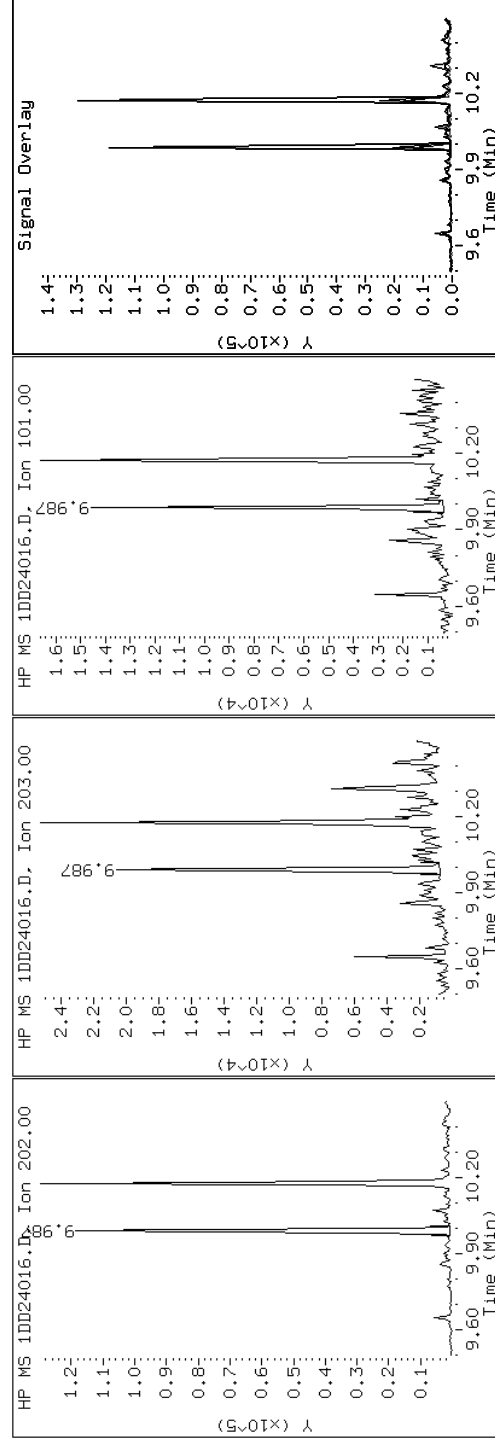
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

14 Fluoranthene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

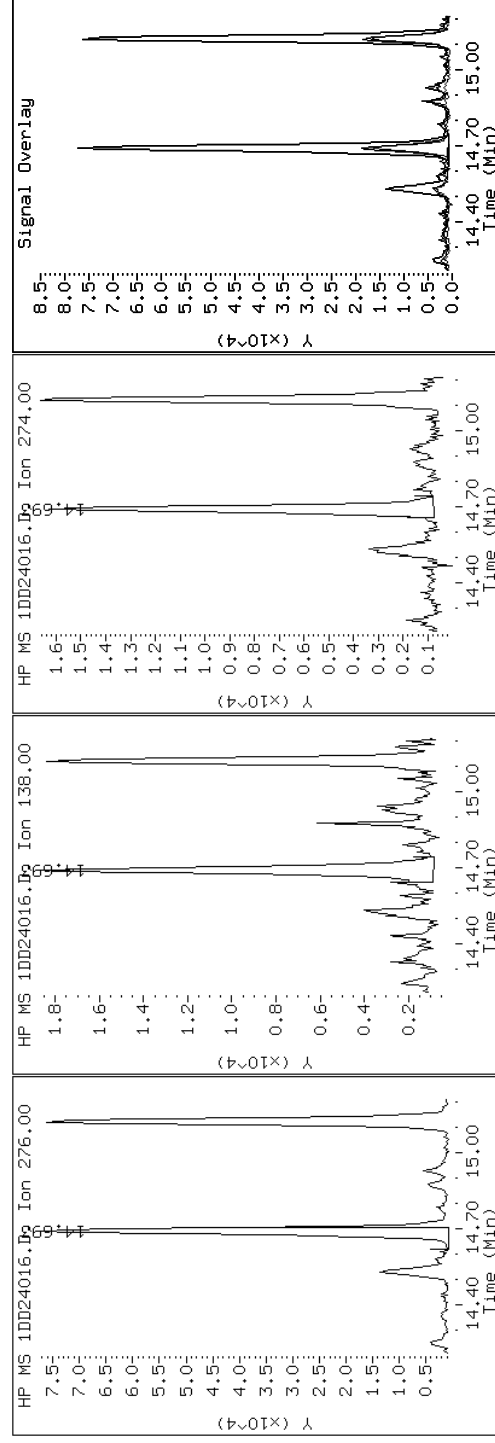
Client ID: CV1066B-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-12-A

Operator: SCC

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



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

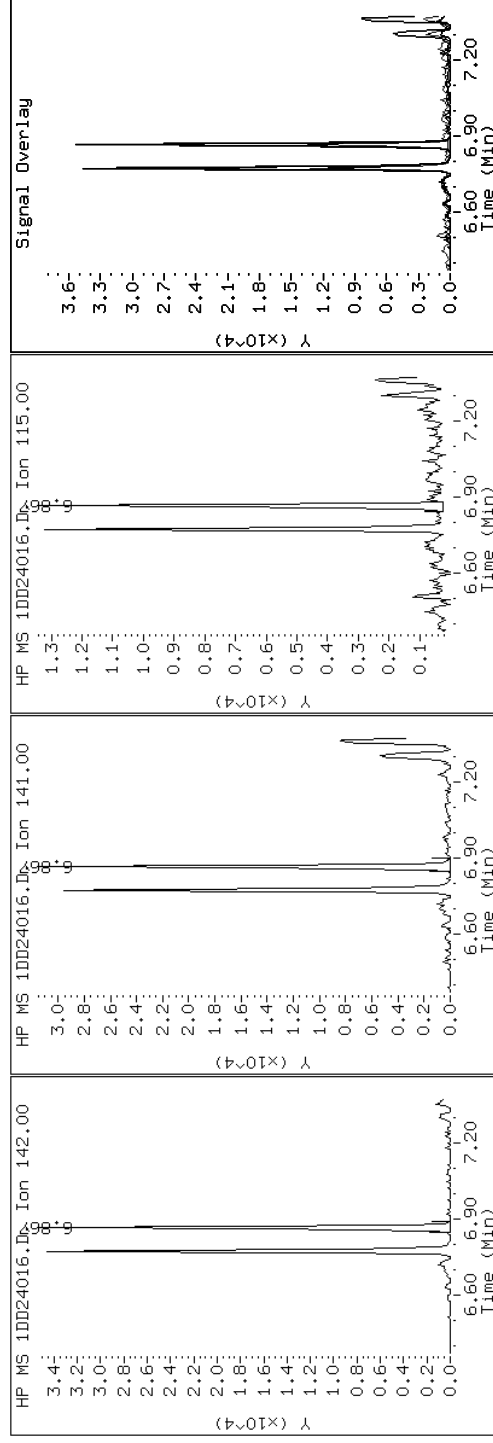
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

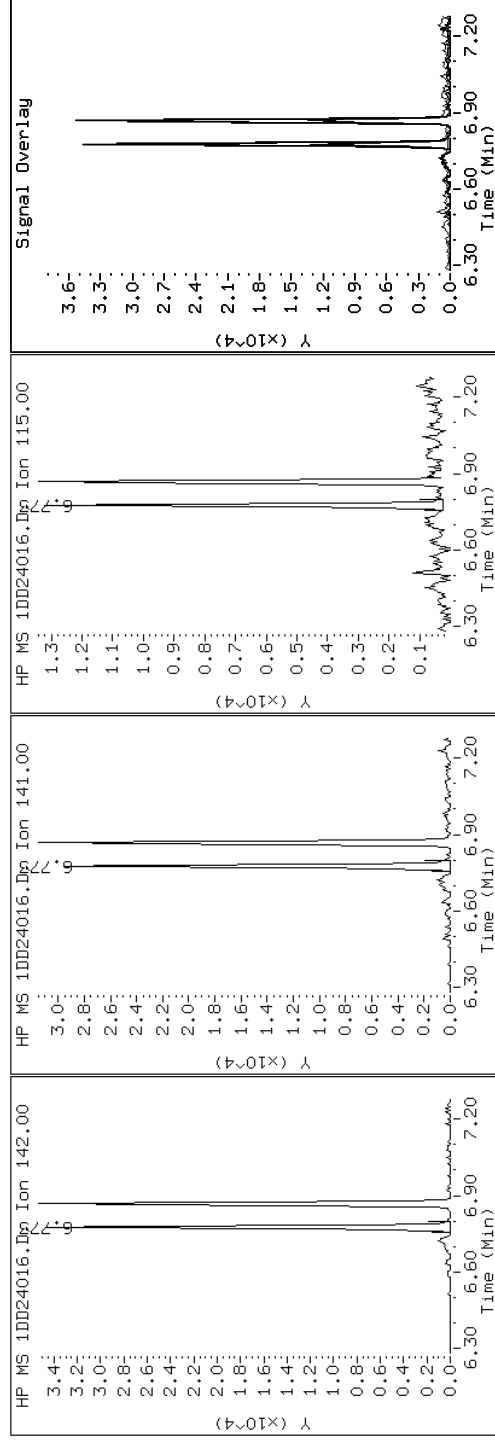
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

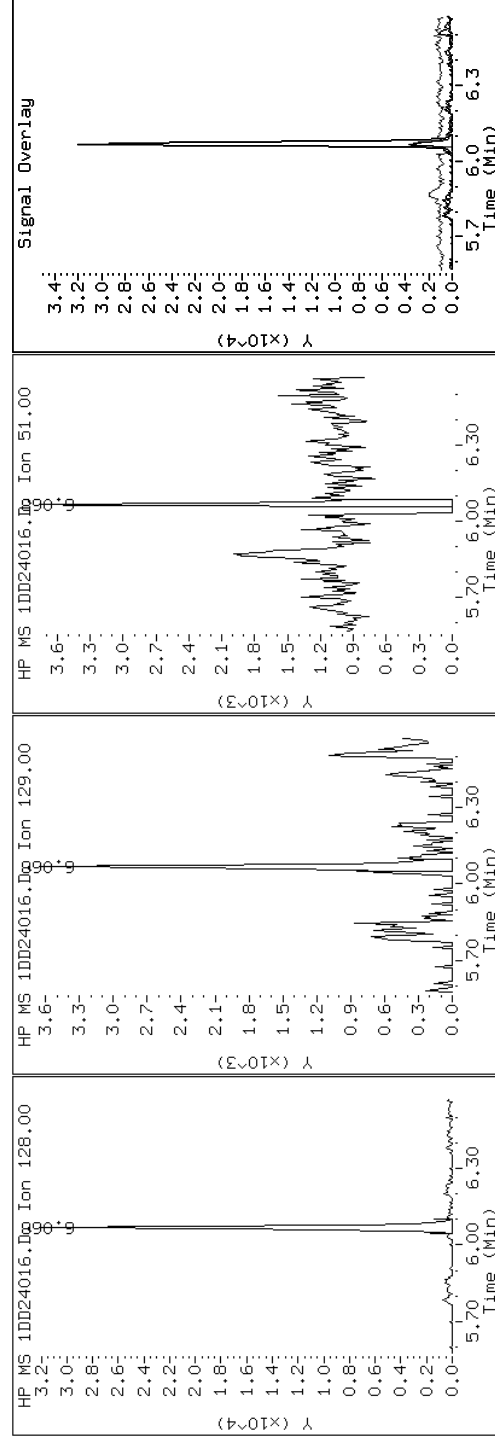
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMSD.i

Operator: SCC

2 Naphthalene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

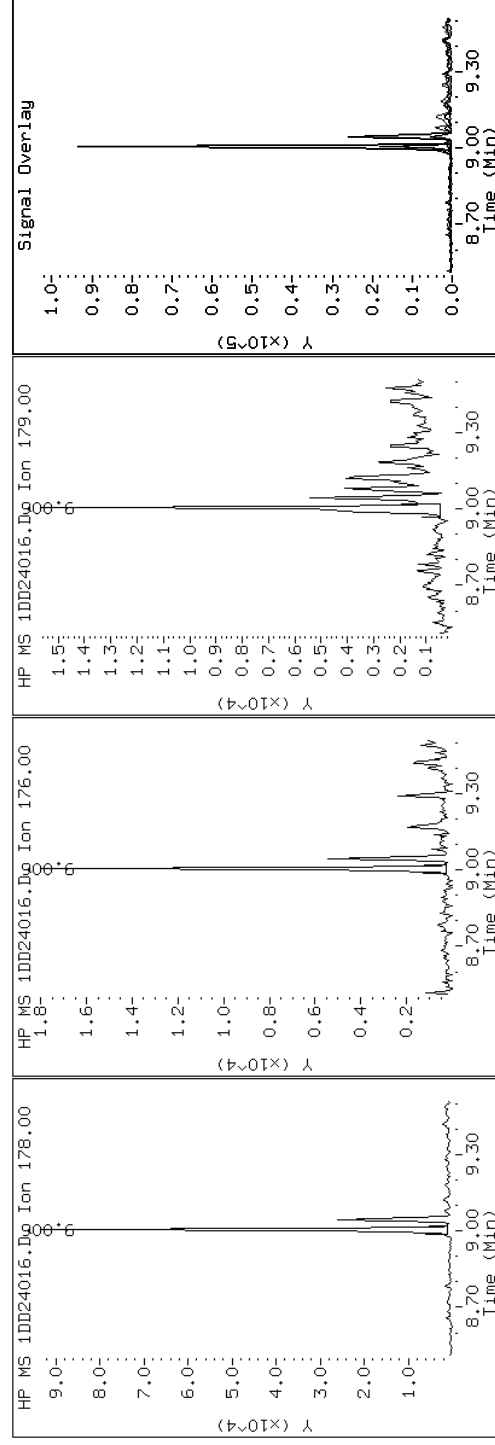
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD24016.D

Date: 24-APR-2013 17:40

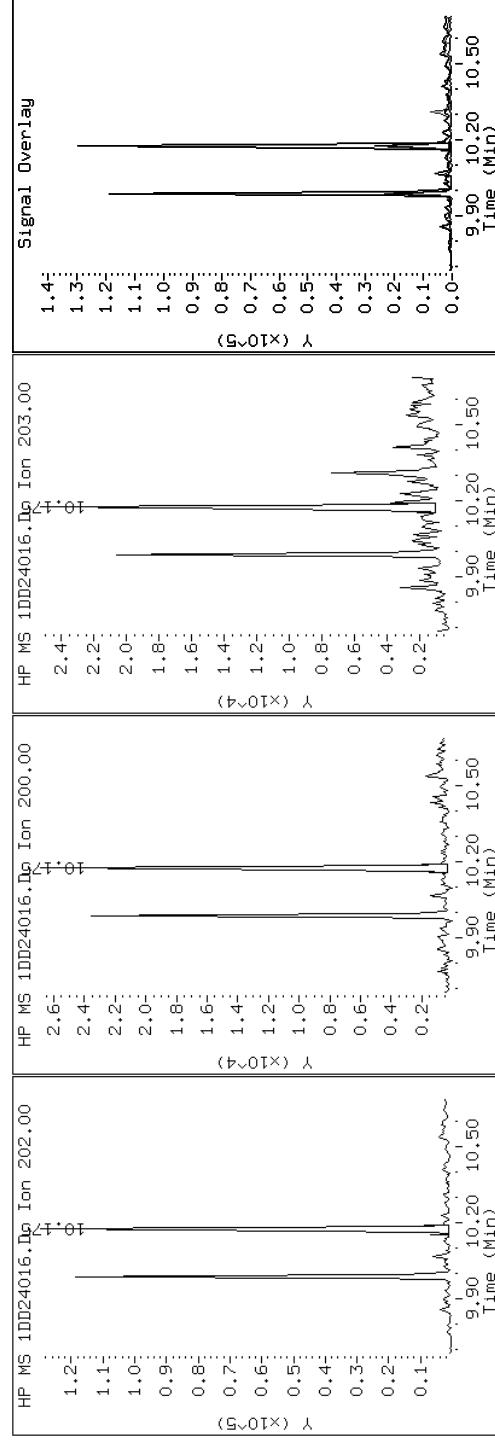
Client ID: CV1066B-CS-SP

Sample Info: 680-89459-A-12-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

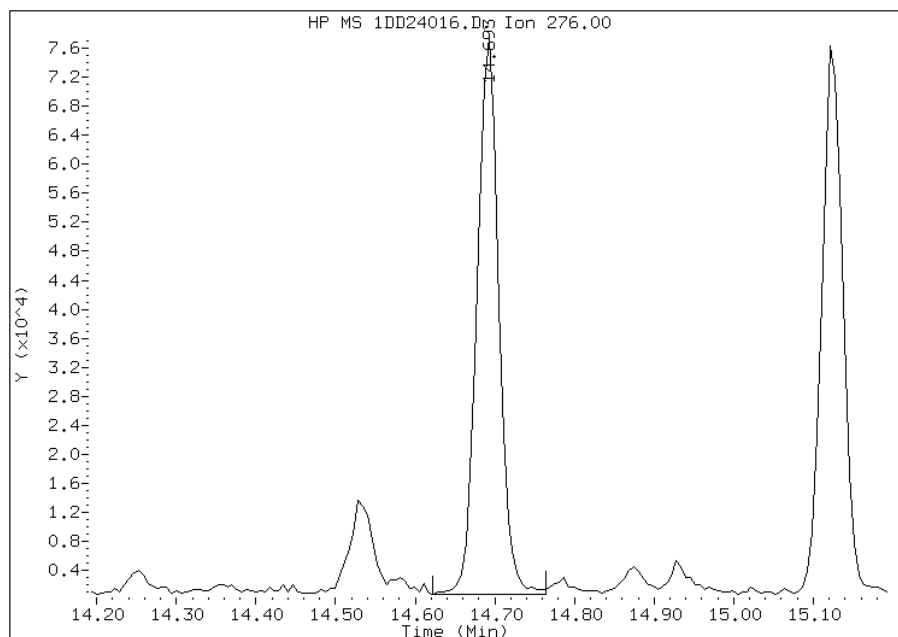


Manual Integration Report

Data File: 1DD24016.D
Inj. Date and Time: 24-APR-2013 17:40
Instrument ID: BSMSD.i
Client ID: CV1066B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

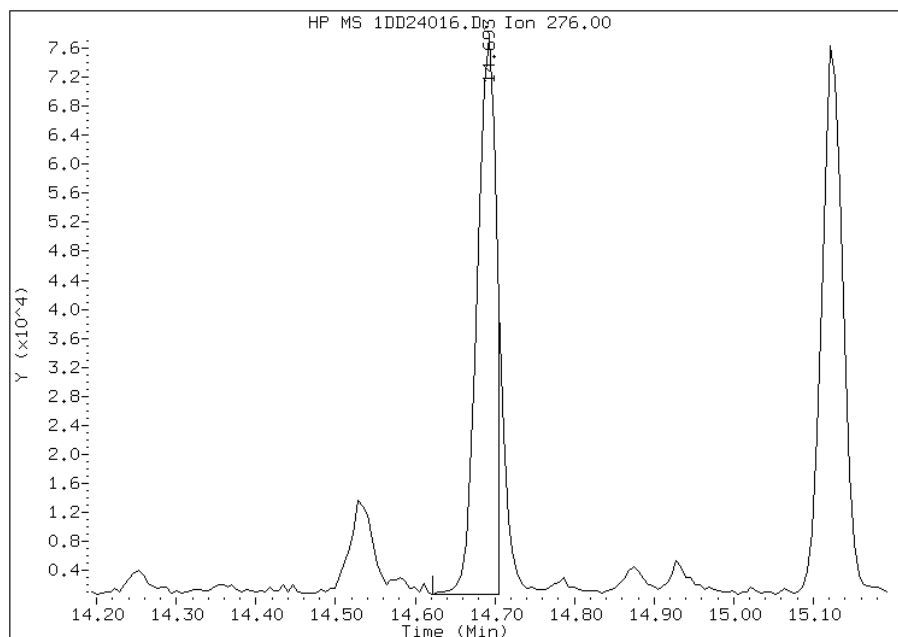
Processing Integration Results

RT: 14.69
Response: 145149
Amount: 2
Conc: 658



Manual Integration Results

RT: 14.69
Response: 128846
Amount: 2
Conc: 584



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1225A-CS-SP</u>	Lab Sample ID: <u>680-89459-13</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:45</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.04(g)</u>	Date Analyzed: <u>04/23/2013 18:14</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>17.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	46	J	190	24
120-12-7	Anthracene	62		40	20
56-55-3	Benzo[a]anthracene	140		38	19
50-32-8	Benzo[a]pyrene	120		50	25
205-99-2	Benzo[b]fluoranthene	310		59	29
191-24-2	Benzo[g,h,i]perylene	140		96	21
207-08-9	Benzo[k]fluoranthene	93		38	17
218-01-9	Chrysene	230		43	22
53-70-3	Dibenz(a,h)anthracene	51	J	96	20
206-44-0	Fluoranthene	150		96	19
86-73-7	Fluorene	96	U	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	120		96	34
90-12-0	1-Methylnaphthalene	65	J	190	21
91-57-6	2-Methylnaphthalene	120	J	190	34
91-20-3	Naphthalene	92	J	190	21
85-01-8	Phenanthrene	120		38	19
129-00-0	Pyrene	160		96	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23015.D
Lab Smp Id: 680-89459-A-13-A Client Smp ID: CV1225A-CS-SP
Inj Date : 23-APR-2013 18:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-13-A
Misc Info : 680-89459-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	17.035	% 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		6.055	6.051	(1.000)		1767057	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		1017116	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1624888	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.306	(1.034)		39700	1.62155	520
* 17 Chrysene-d12	240		11.307	11.304	(1.000)		1760113	40.0000	
* 22 Perylene-d12	264		13.135	13.120	(1.000)		2041287	40.0000	
2 Naphthalene	128		6.072	6.075	(1.003)		12627	0.28749	92
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		10847	0.38258	120
4 1-Methylnaphthalene	142		6.877	6.874	(1.136)		5434	0.20295	65
5 Acenaphthylene	152		7.606	7.608	(0.983)		6195	0.14391	46
8 Fluorene	166		8.205	8.208	(1.061)		1105	0.03512	11(Q)
10 Phenanthrene	178		9.010	9.013	(1.001)		16318	0.36459	120
11 Anthracene	178		9.057	9.054	(1.007)		8654	0.19481	62
12 Carbazole	167		9.198	9.195	(1.022)		4861	0.12406	40

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.997	10.000	(1.111)	21863	0.47469	150
15 Pyrene	202	10.185	10.188	(0.901)	25728	0.48676	160
16 Benzo(a)anthracene	228	11.295	11.287	(0.999)	21578	0.42403	140
18 Chrysene	228	11.331	11.328	(1.002)	34957	0.73262	230
19 Benzo(b)fluoranthene	252	12.582	12.585	(0.958)	49889	0.97837	310
20 Benzo(k)fluoranthene	252	12.617	12.620	(0.961)	15623	0.29082	93
21 Benzo(a)pyrene	252	13.029	13.032	(0.992)	18626	0.36354	120
23 Indeno(1,2,3-cd)pyrene	276	14.703	14.706	(1.119)	20507	0.37537	120(M)
24 Dibenzo(a,h)anthracene	278	14.721	14.735	(1.121)	8227	0.15992	51
25 Benzo(g,h,i)perylene	276	15.138	15.141	(1.153)	22674	0.43104	140

QC Flag Legend

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

Data File: 1DD23015.D

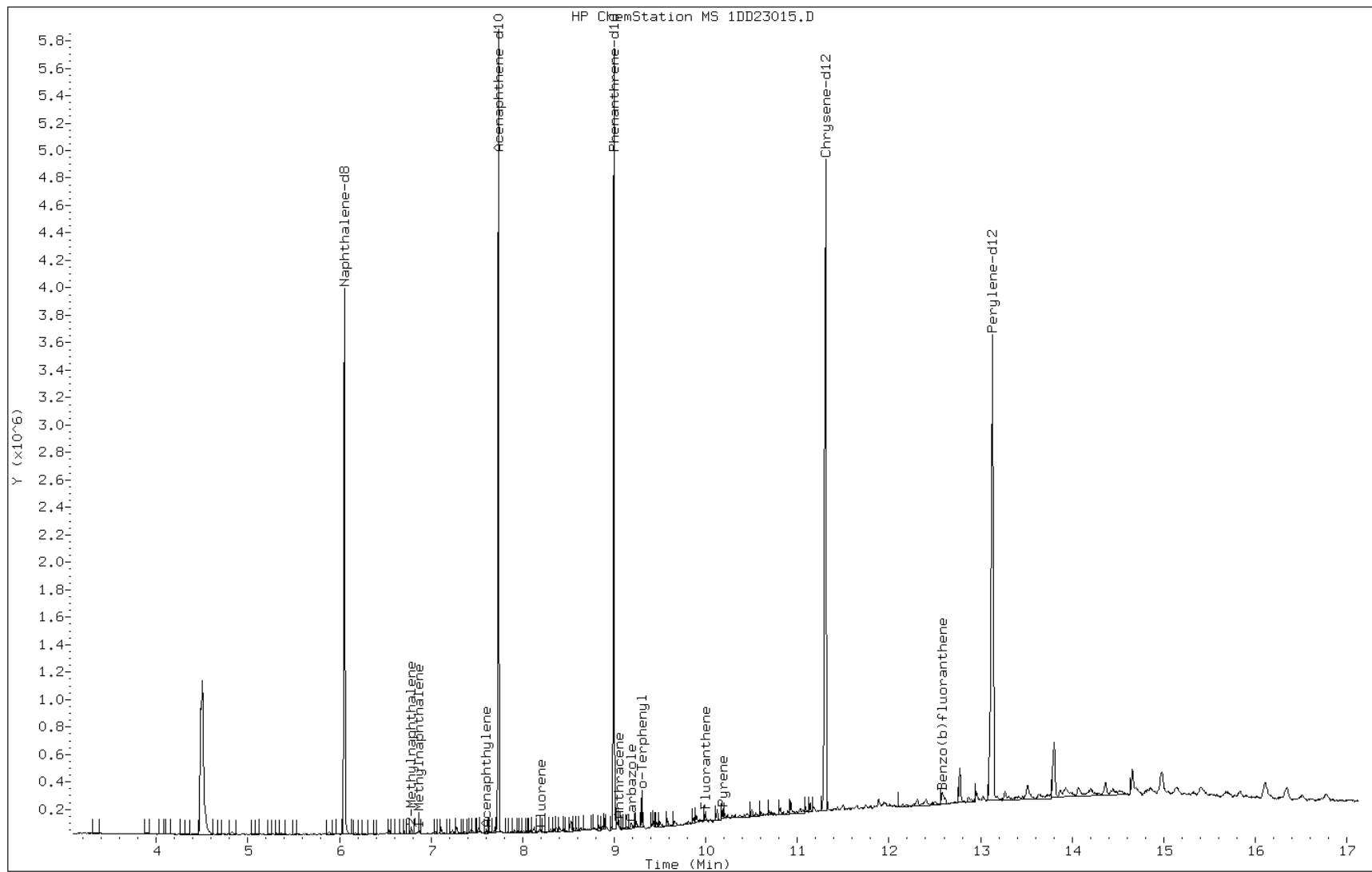
Date: 23-APR-2013 18:14

Client ID: CV1225A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-13-A

Operator: SCC



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

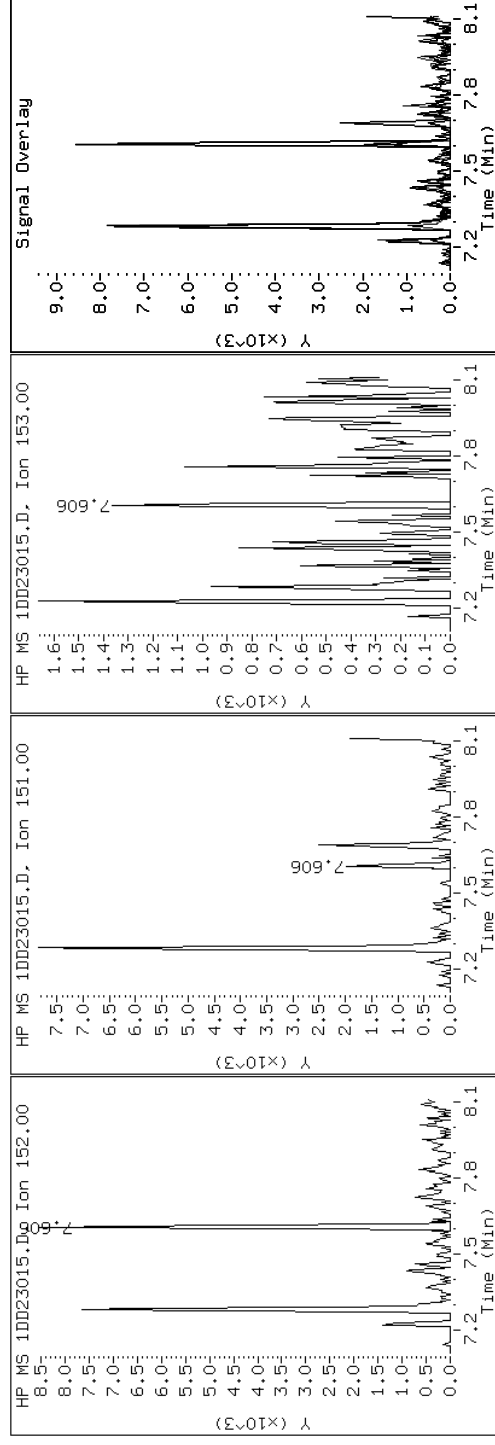
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

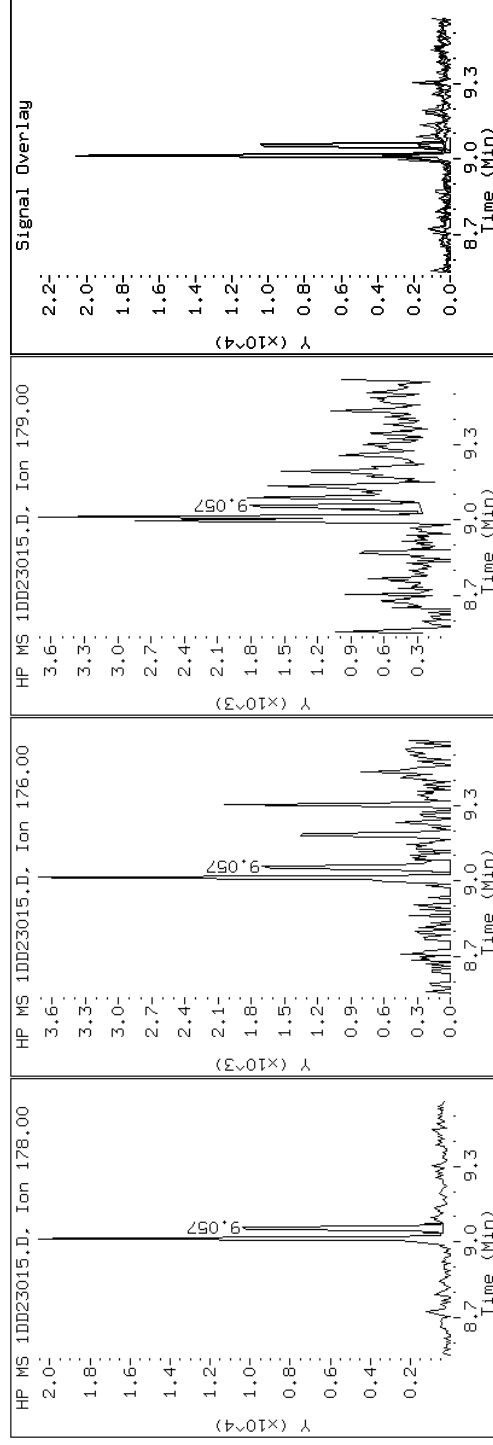
Client ID: CV1225A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-13-A

Operator: SCC

11 Anthracene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

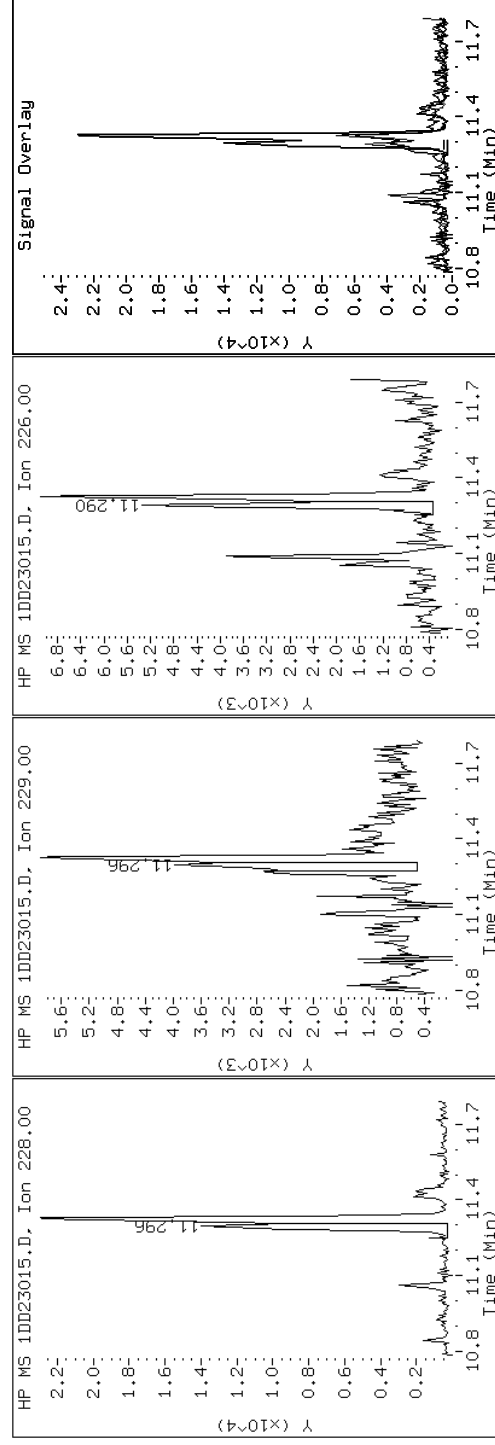
Client ID: CV1225A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-13-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

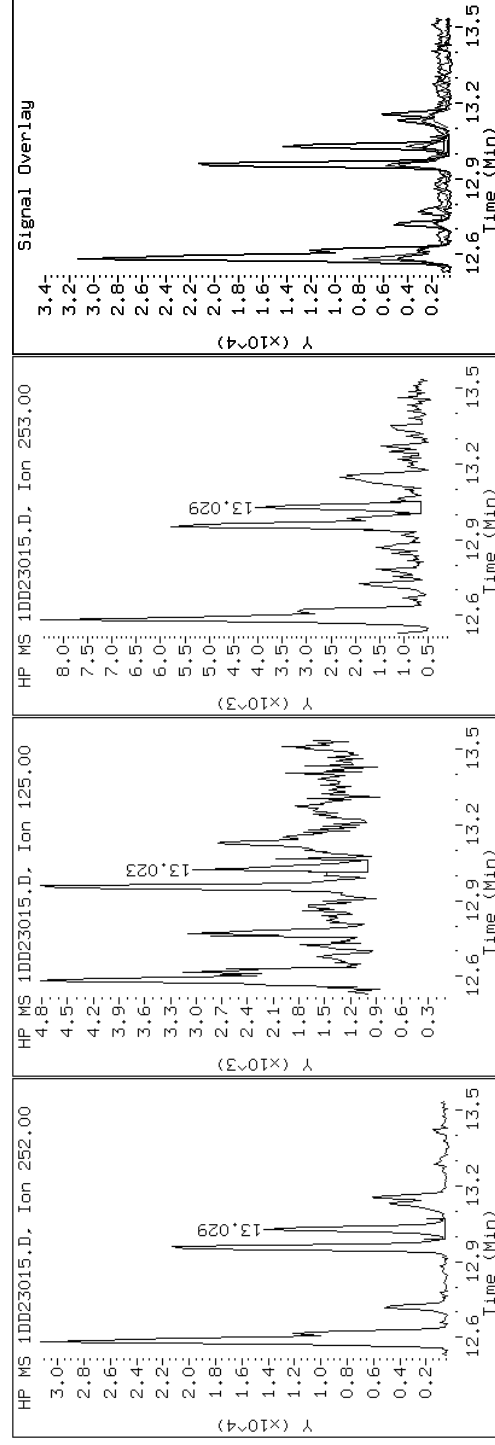
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

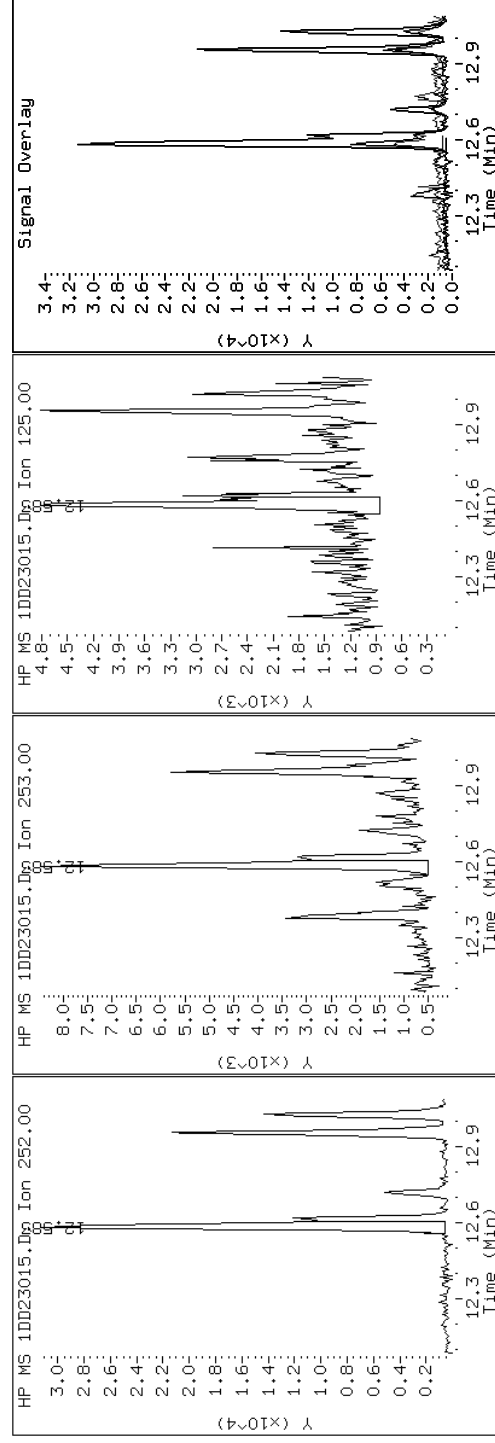
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

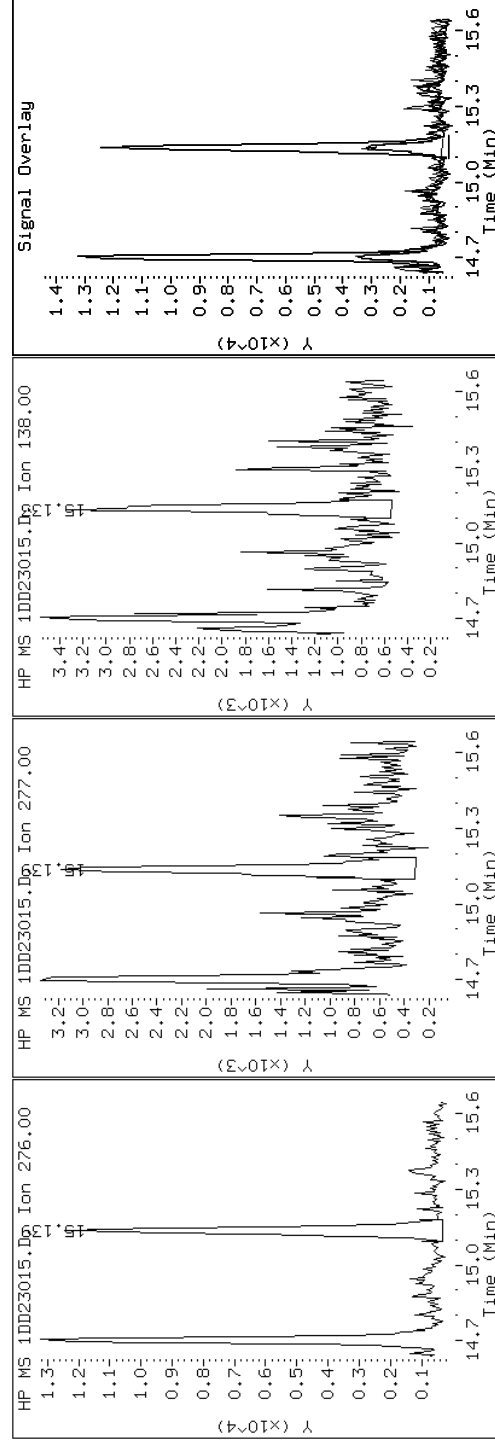
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

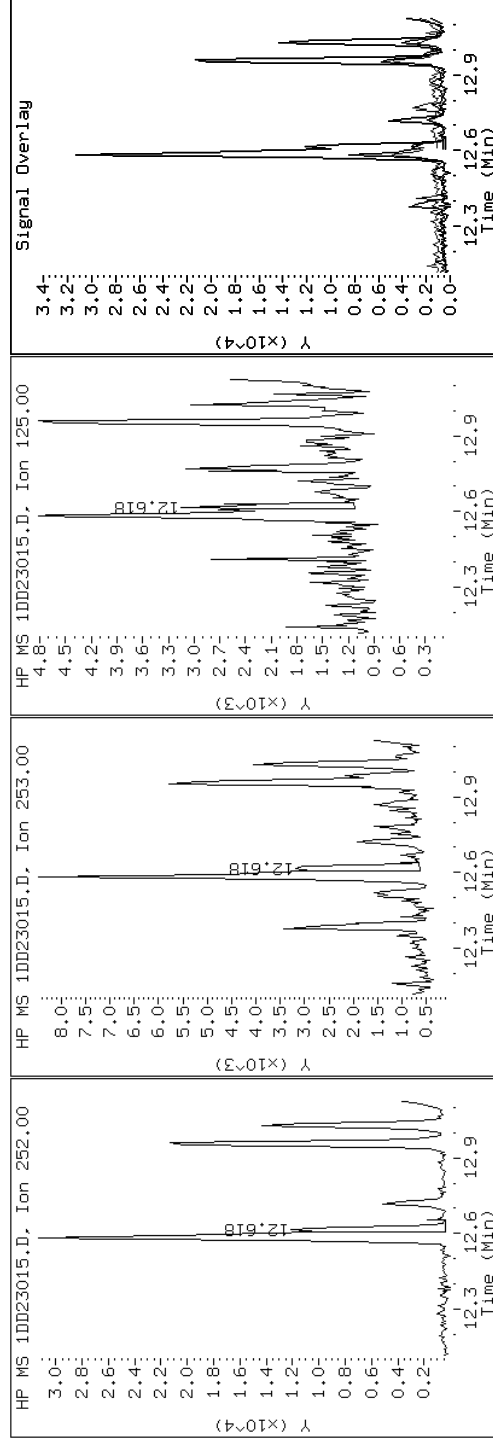
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

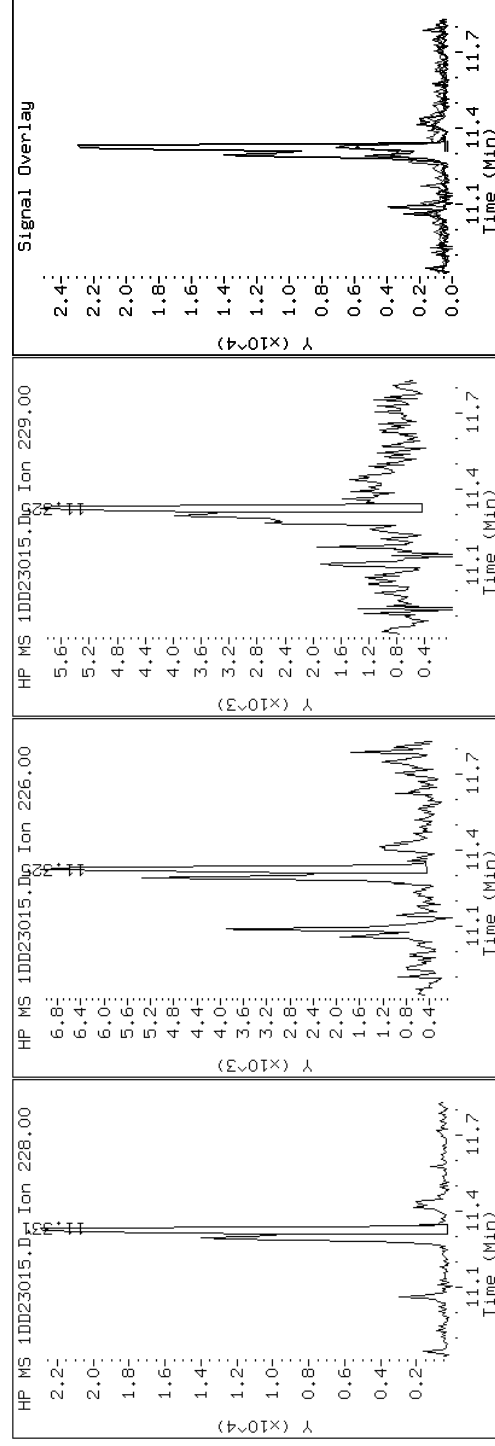
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

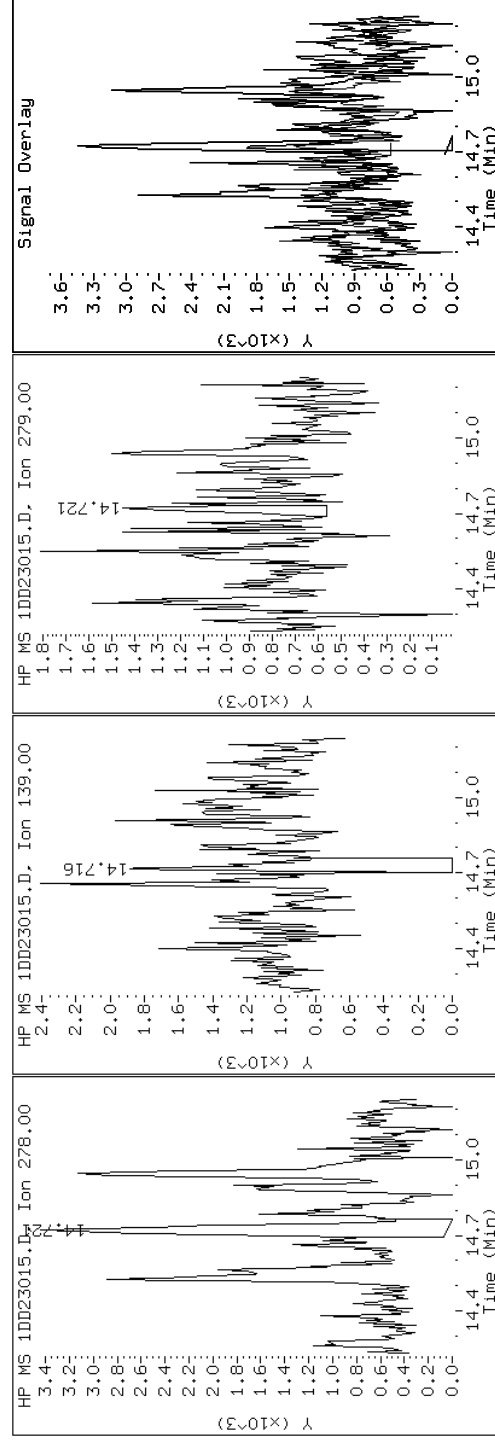
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

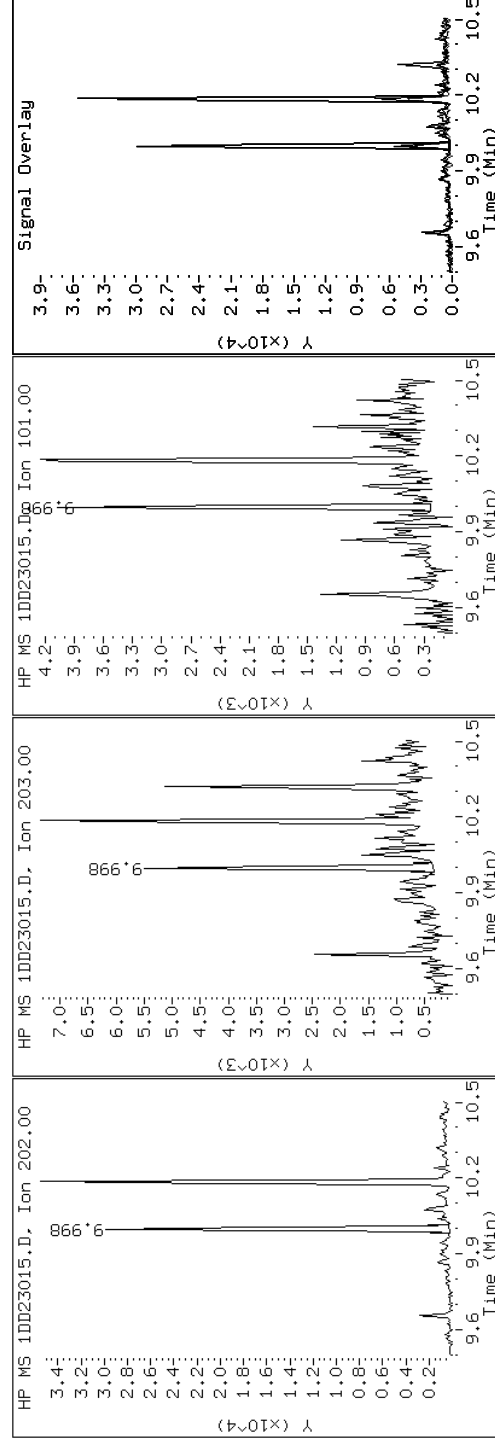
Client ID: CV1225A-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-13-A

Operator: SCC

14 Fluoranthene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

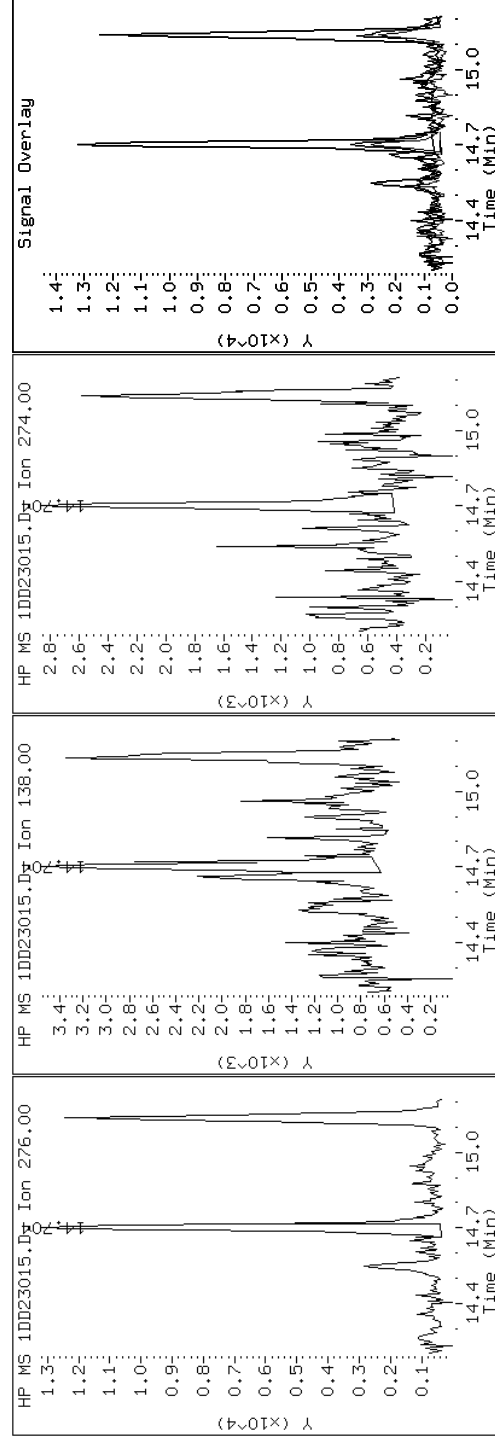
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

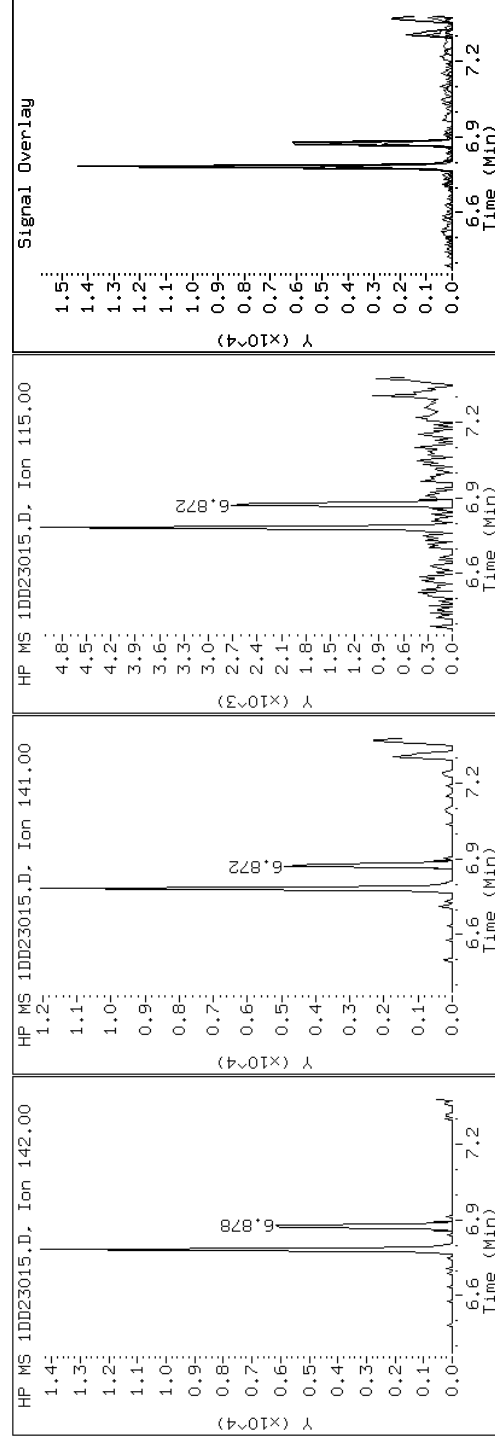
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

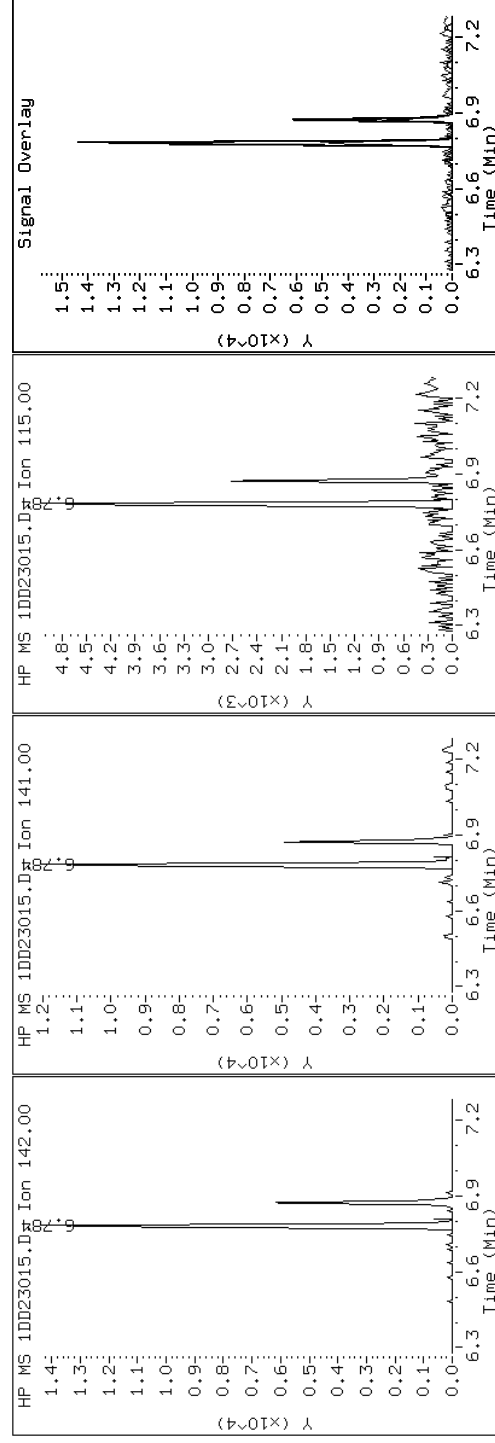
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

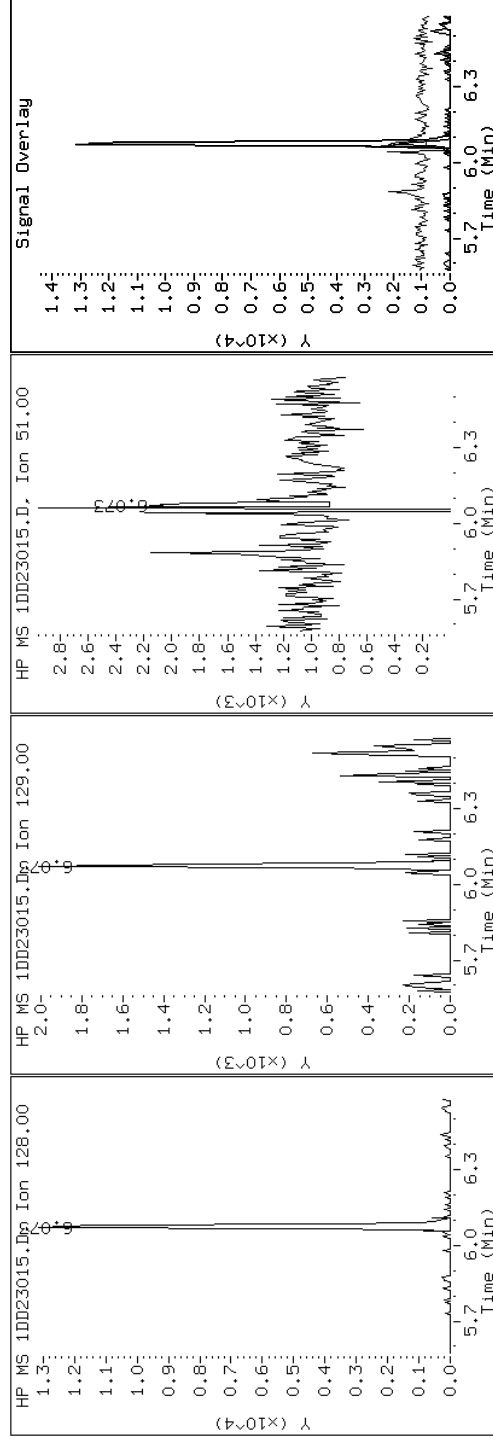
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

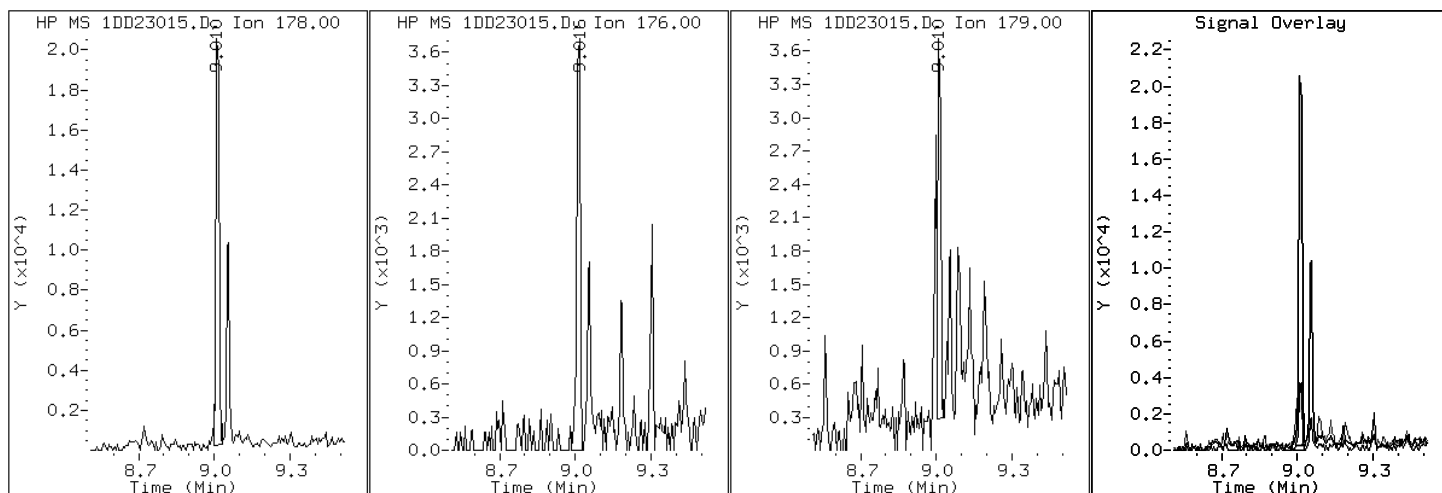
Client ID: CV1225A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-13-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23015.D

Date: 23-APR-2013 18:14

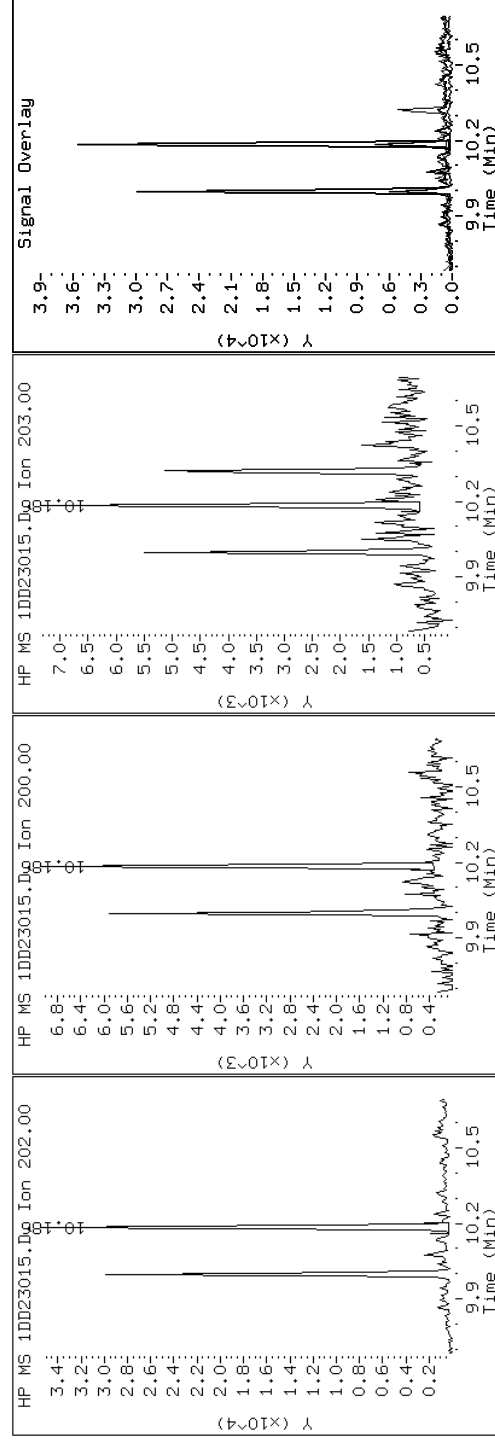
Client ID: CV1225A-CS-SP

Sample Info: 680-89459-A-13-A

Instrument: BSMDS.i

Operator: SCC

15 Pyrene

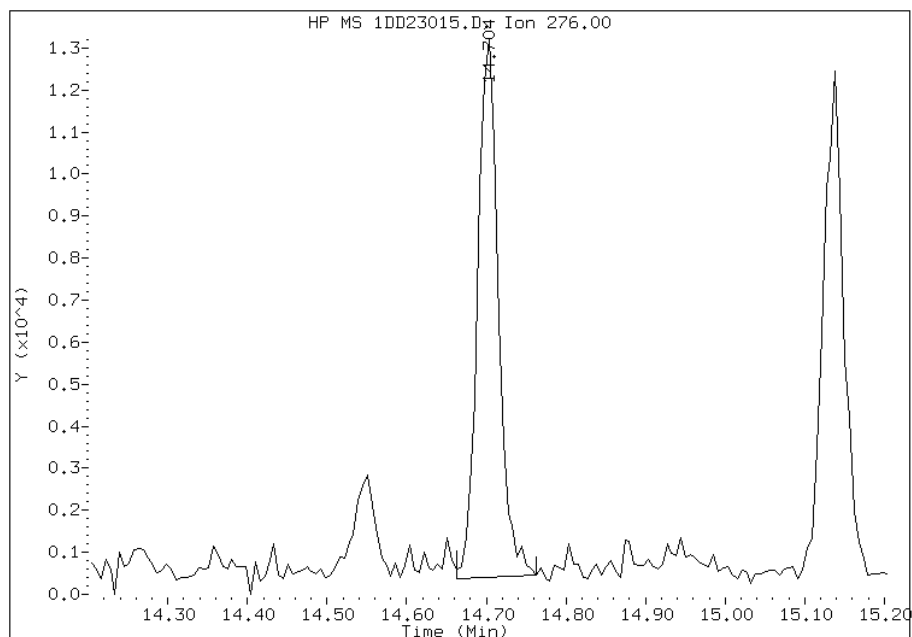


Manual Integration Report

Data File: 1DD23015.D
Inj. Date and Time: 23-APR-2013 18:14
Instrument ID: BSMSD.i
Client ID: CV1225A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

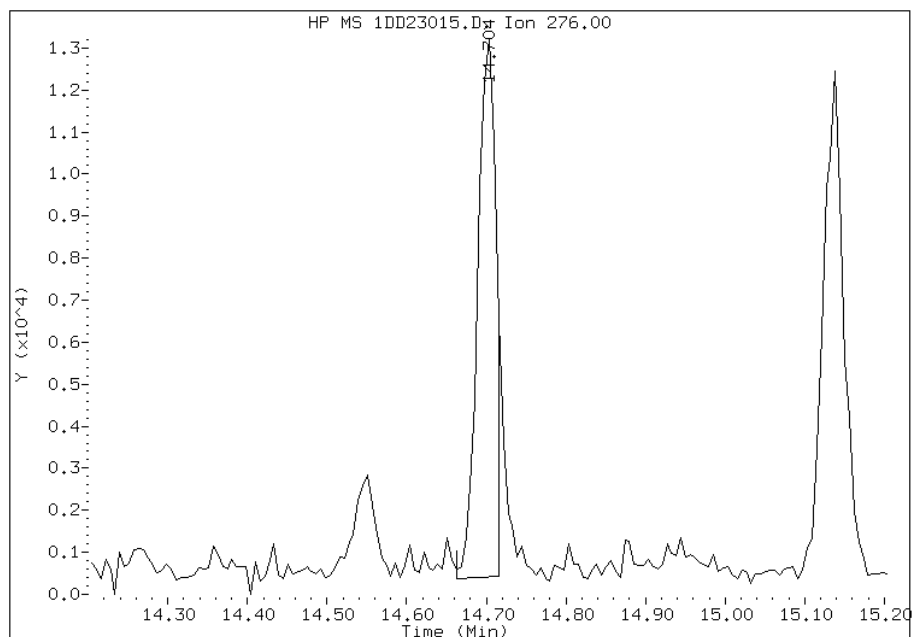
Processing Integration Results

RT: 14.70
Response: 23132
Amount: 0
Conc: 136



Manual Integration Results

RT: 14.70
Response: 20507
Amount: 0
Conc: 120



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1282A-CS-SP</u>	Lab Sample ID: <u>680-89459-14</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23016.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.16(g)</u>	Date Analyzed: <u>04/23/2013 18:37</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>19.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</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	200	U	200	24
120-12-7	Anthracene	41		41	21
56-55-3	Benzo[a]anthracene	180		39	19
50-32-8	Benzo[a]pyrene	160		51	25
205-99-2	Benzo[b]fluoranthene	280		60	30
191-24-2	Benzo[g,h,i]perylene	110		98	22
207-08-9	Benzo[k]fluoranthene	89		39	18
218-01-9	Chrysene	230		44	22
53-70-3	Dibenz(a,h)anthracene	40	J	98	20
206-44-0	Fluoranthene	290		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	95	J	98	35
90-12-0	1-Methylnaphthalene	68	J	200	22
91-57-6	2-Methylnaphthalene	72	J	200	35
91-20-3	Naphthalene	56	J	200	22
85-01-8	Phenanthrene	180		39	19
129-00-0	Pyrene	210		98	18

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23016.D
 Lab Smp Id: 680-89459-A-14-A Client Smp ID: CV1282A-CS-SP
 Inj Date : 23-APR-2013 18:37
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-14-A
 Misc Info : 680-89459-A-14-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 15
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	19.111	% 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		6.053	6.051	(1.000)		1725061	40.0000	
* 6 Acenaphthene-d10	164		7.734	7.732	(1.000)		1004045	40.0000	
* 9 Phenanthrene-d10	188		8.997	8.995	(1.000)		1628441	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		34928	1.42352	460
* 17 Chrysene-d12	240		11.306	11.304	(1.000)		1754166	40.0000	
* 22 Perylene-d12	264		13.133	13.120	(1.000)		2077177	40.0000	
2 Naphthalene	128		6.077	6.075	(1.004)		7368	0.17184	56
3 2-Methylnaphthalene	142		6.782	6.780	(1.120)		6138	0.22176	72
4 1-Methylnaphthalene	142		6.876	6.874	(1.136)		5435	0.20793	68
5 Acenaphthylene	152		7.605	7.608	(0.983)		3006	0.07074	23
8 Fluorene	166		8.204	8.208	(1.061)		1182	0.03805	12(Q)
10 Phenanthrene	178		9.015	9.013	(1.002)		25290	0.56382	180
11 Anthracene	178		9.056	9.054	(1.007)		5605	0.12590	41
12 Carbazole	167		9.197	9.195	(1.022)		3724	0.09483	31

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.996	10.000	(1.111)	40421	0.87571	280
15 Pyrene	202	10.184	10.188	(0.901)	34400	0.65303	210
16 Benzo(a)anthracene	228	11.289	11.287	(0.998)	27855	0.54923	180
18 Chrysene	228	11.330	11.328	(1.002)	34157	0.71828	230
19 Benzo(b)fluoranthene	252	12.581	12.585	(0.958)	43918	0.84639	280(H)
20 Benzo(k)fluoranthene	252	12.611	12.620	(0.960)	14941	0.27332	89(H)
21 Benzo(a)pyrene	252	13.028	13.032	(0.992)	24873	0.47708	160
23 Indeno(1,2,3-cd)pyrene	276	14.696	14.706	(1.119)	16215	0.29168	95(M)
24 Dibenzo(a,h)anthracene	278	14.720	14.735	(1.121)	6496	0.12409	40
25 Benzo(g,h,i)perylene	276	15.131	15.141	(1.152)	17885	0.33413	110

QC Flag Legend

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

Data File: 1DD23016.D

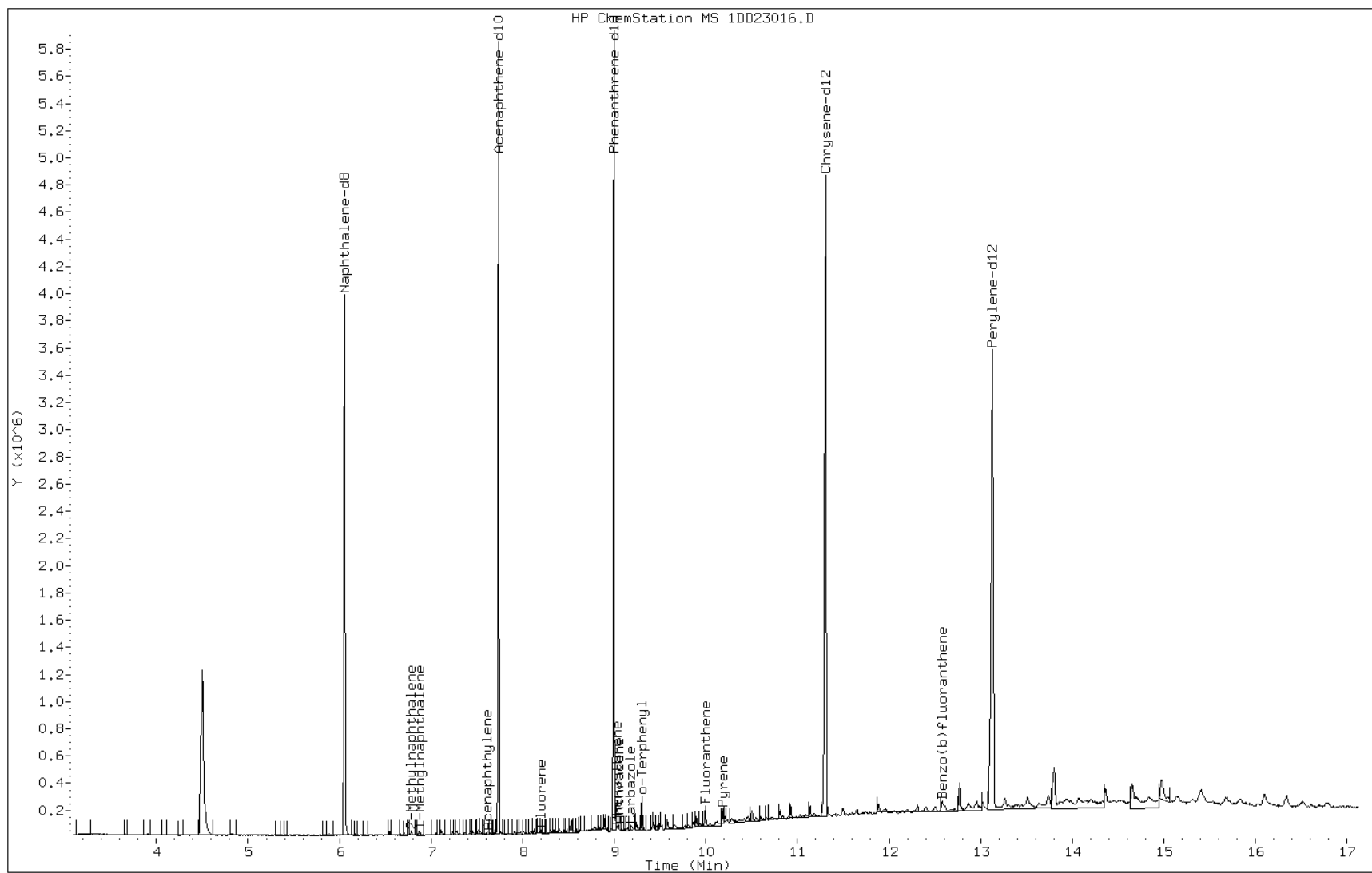
Date: 23-APR-2013 18:37

Client ID: CV1282A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-14-A

Operator: SCC



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

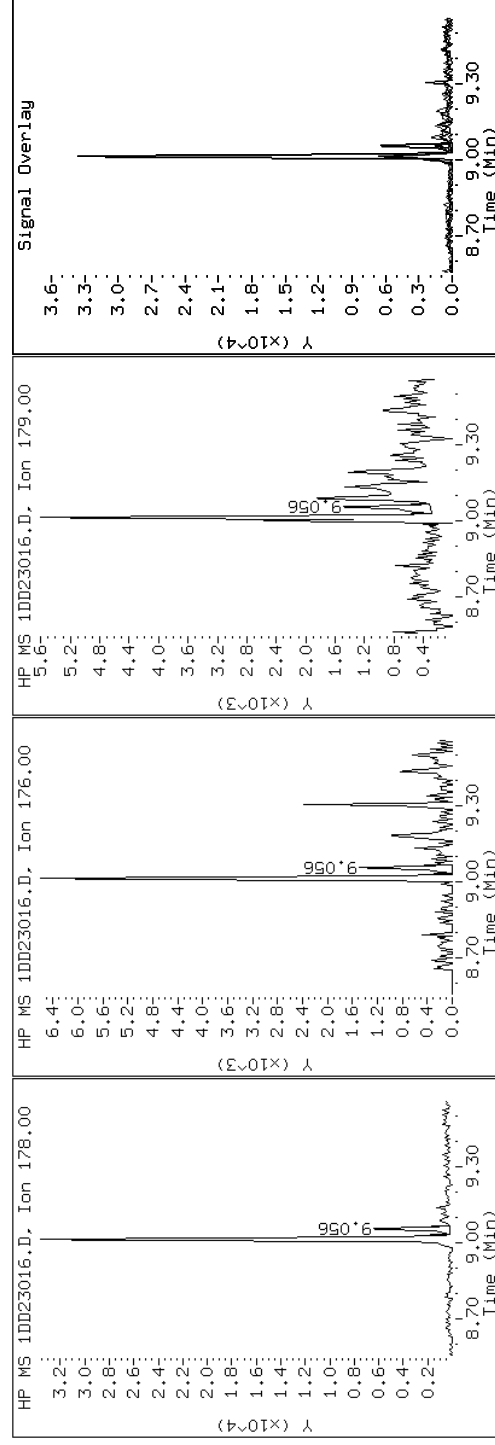
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

11 Anthracene

Instrument: BSMSD.i

Operator: SCC



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

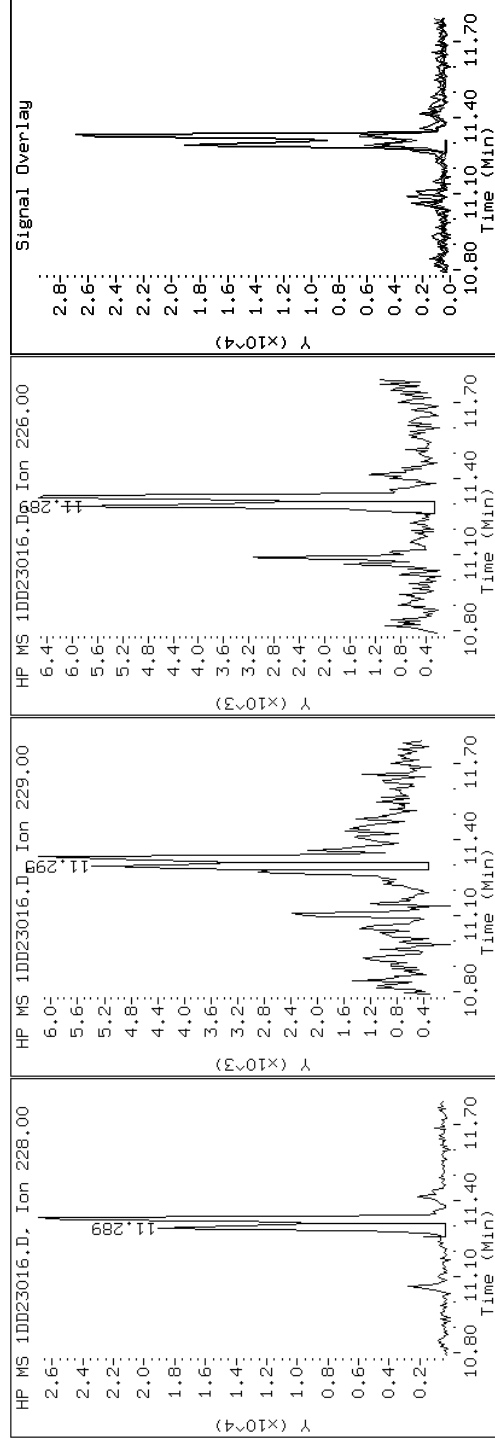
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMSD.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

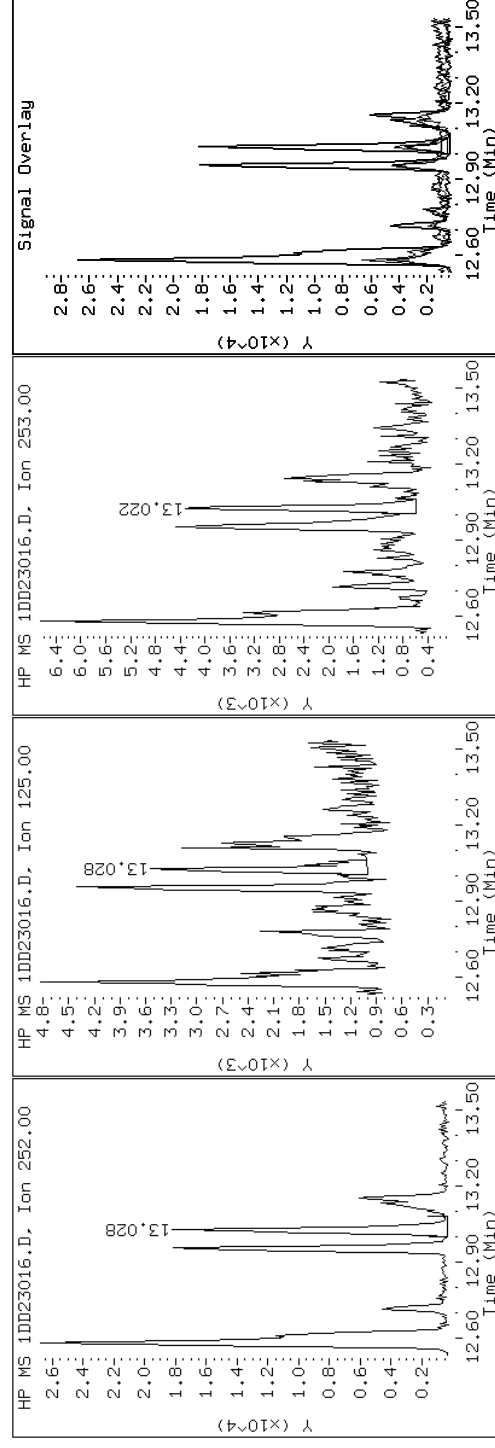
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

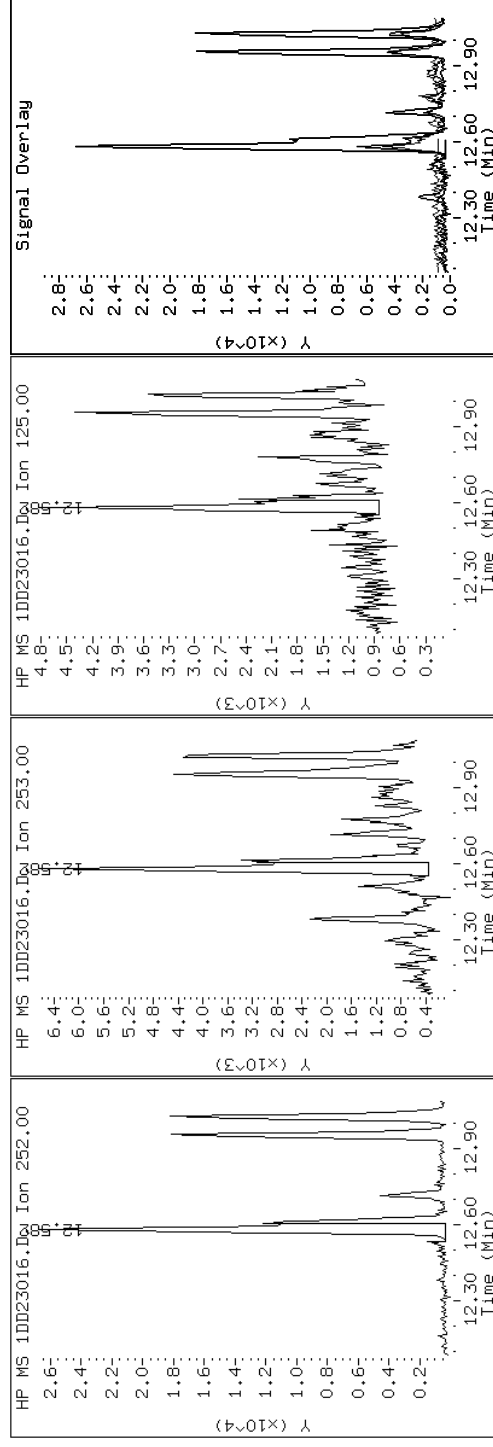
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

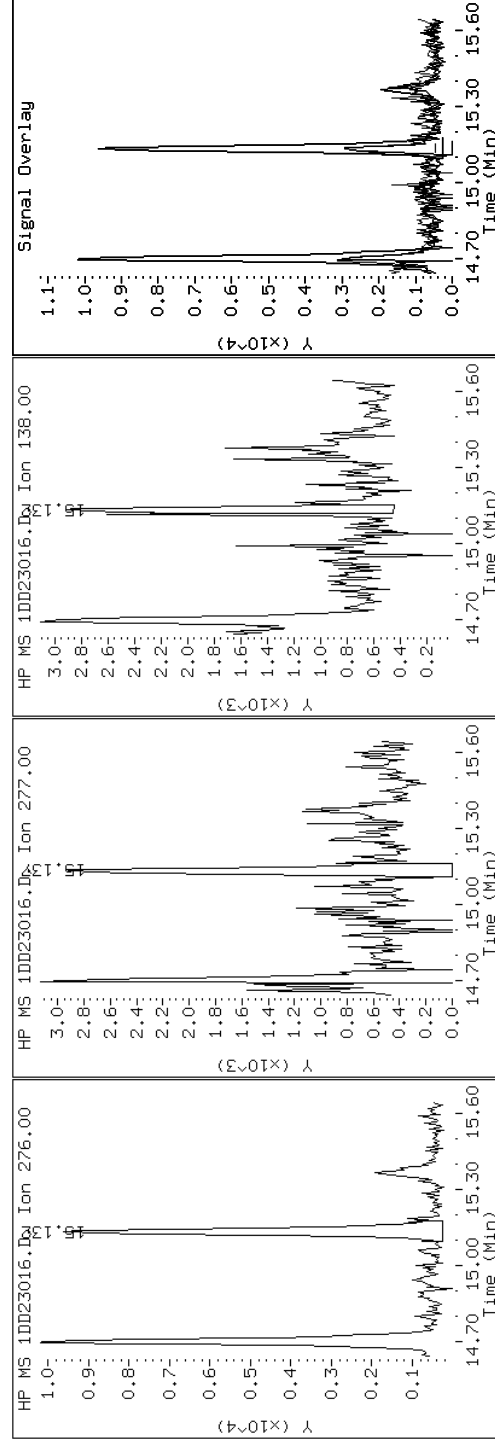
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

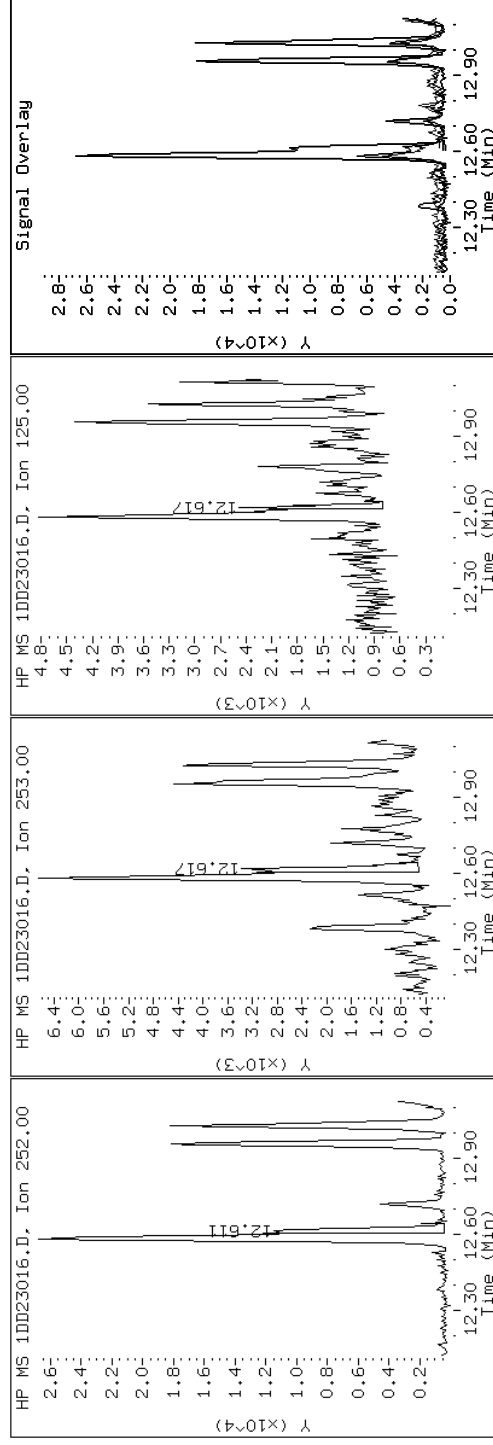
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMSD.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

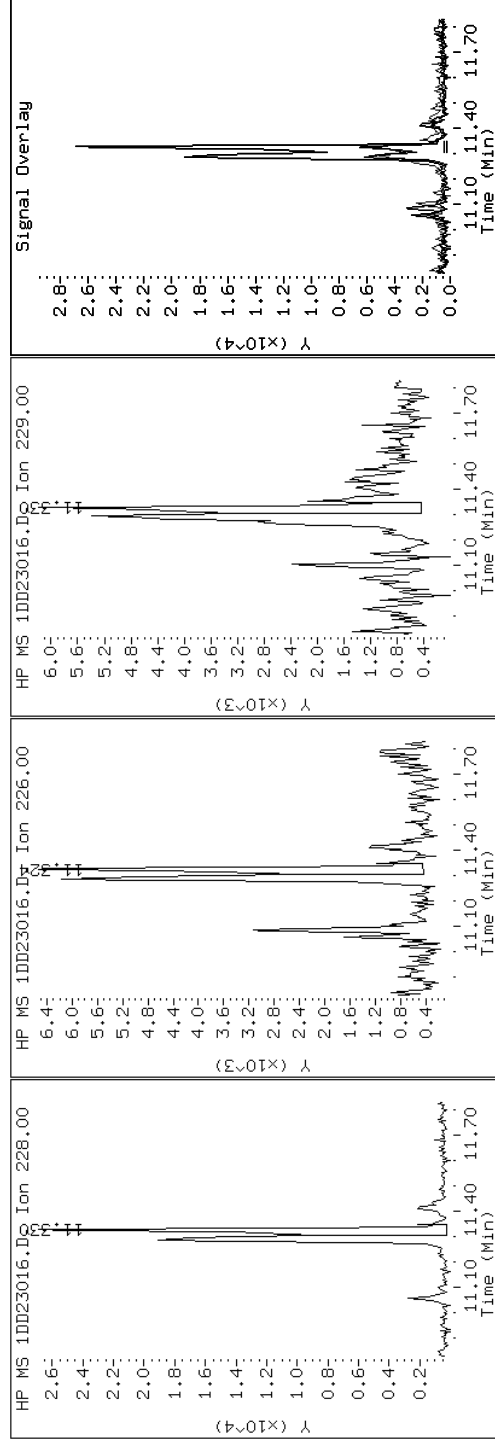
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

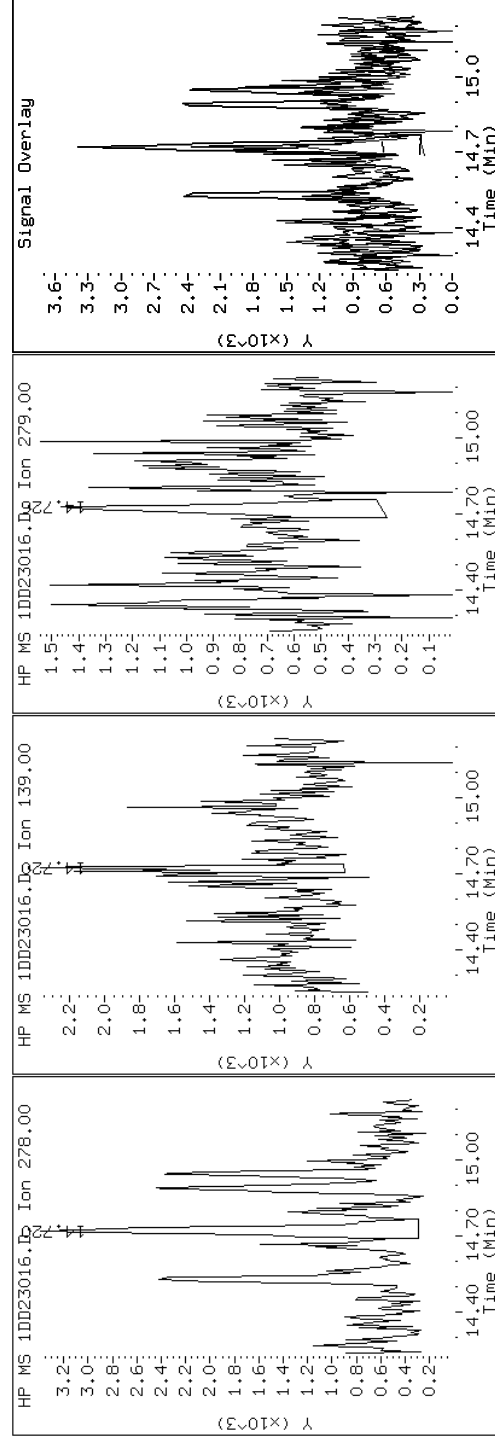
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

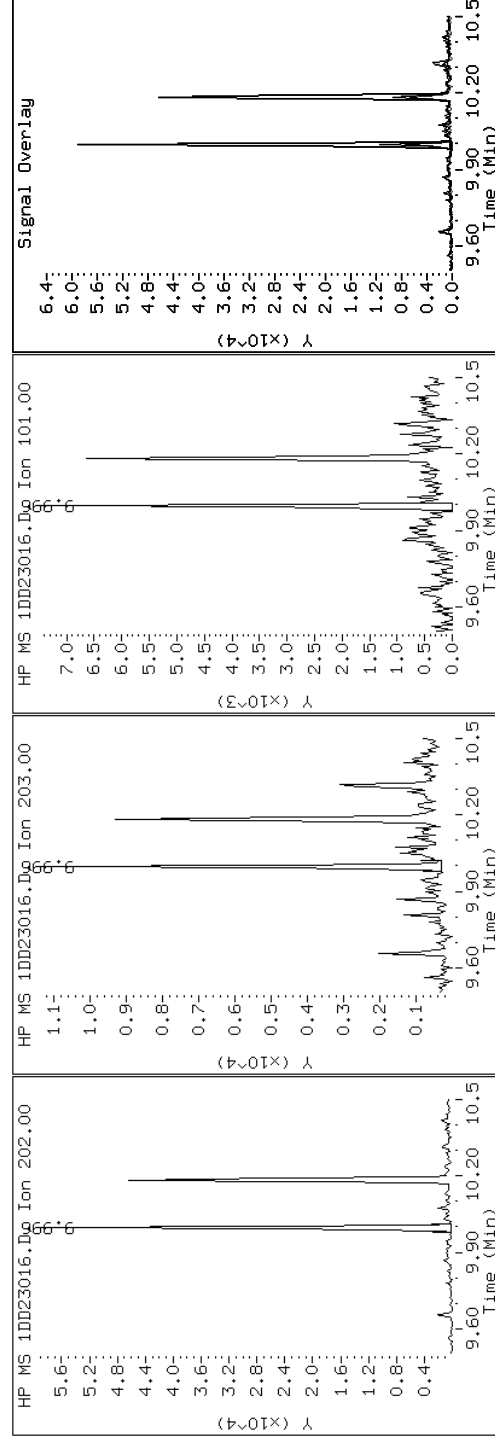
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

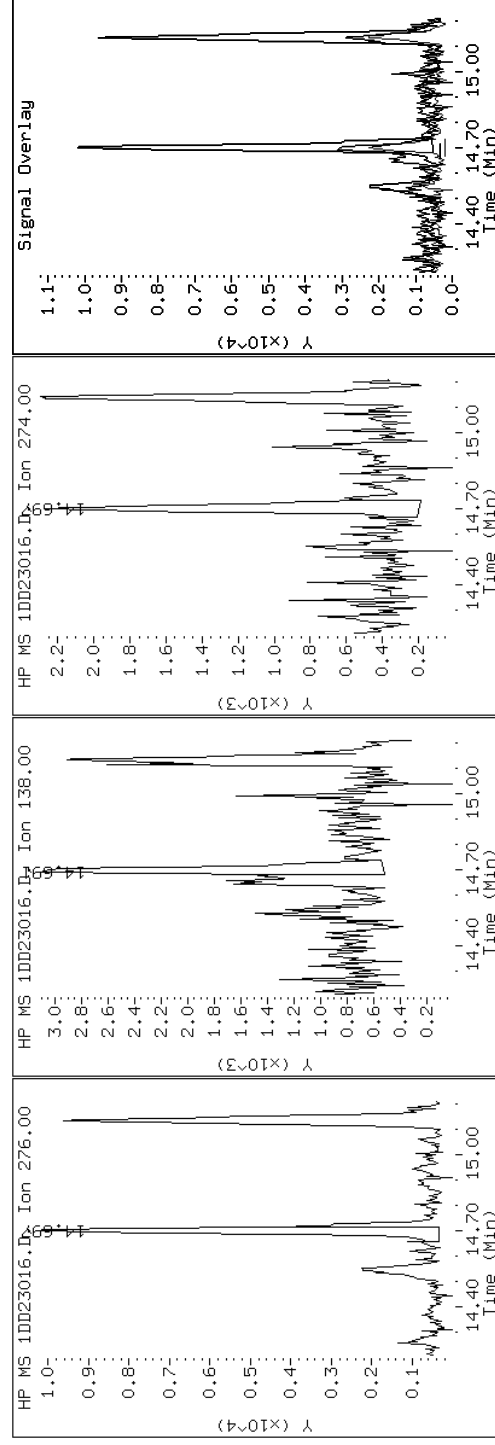
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

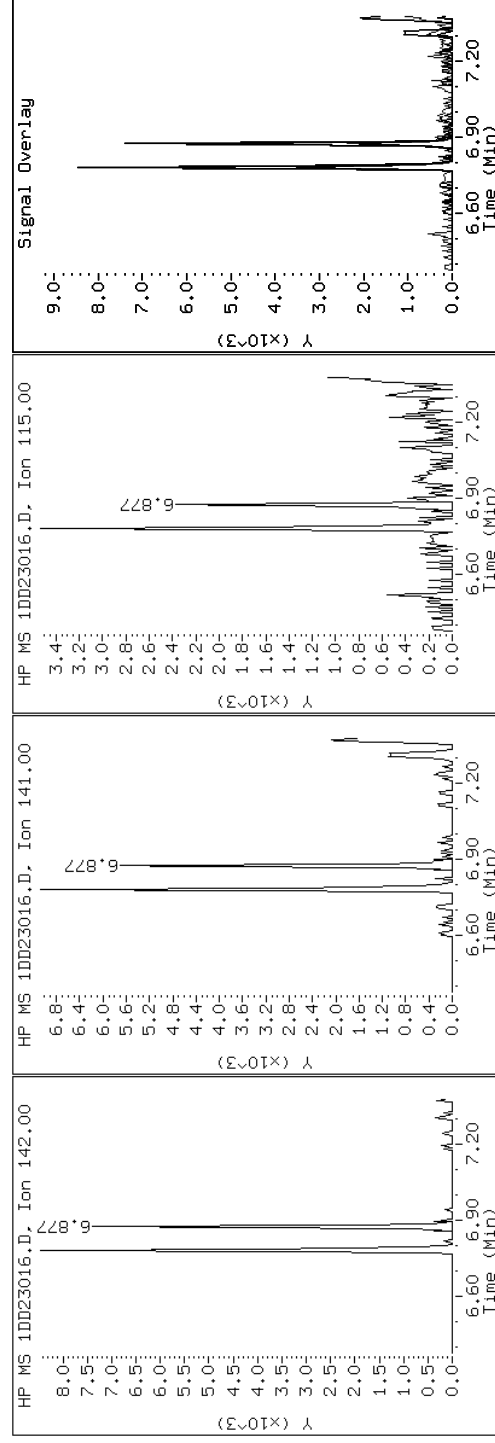
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

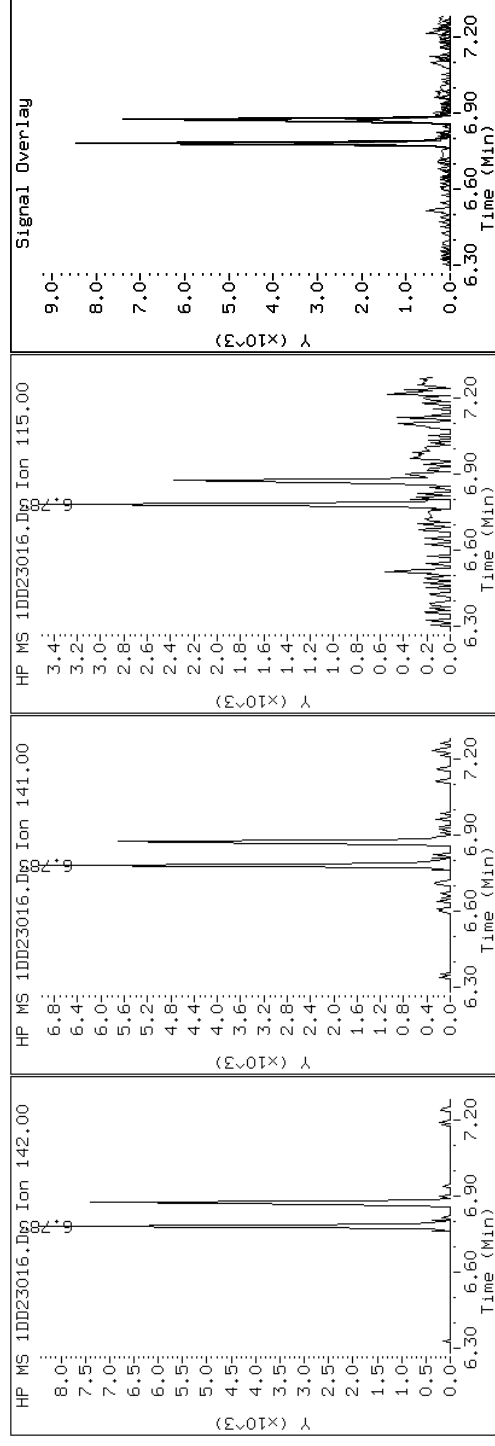
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

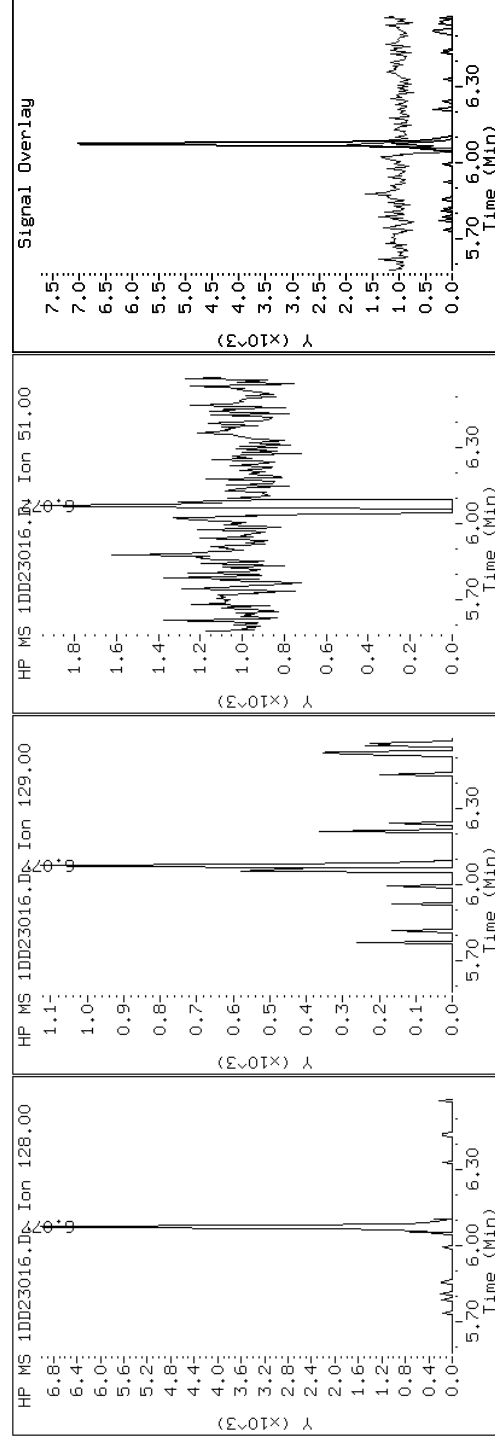
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

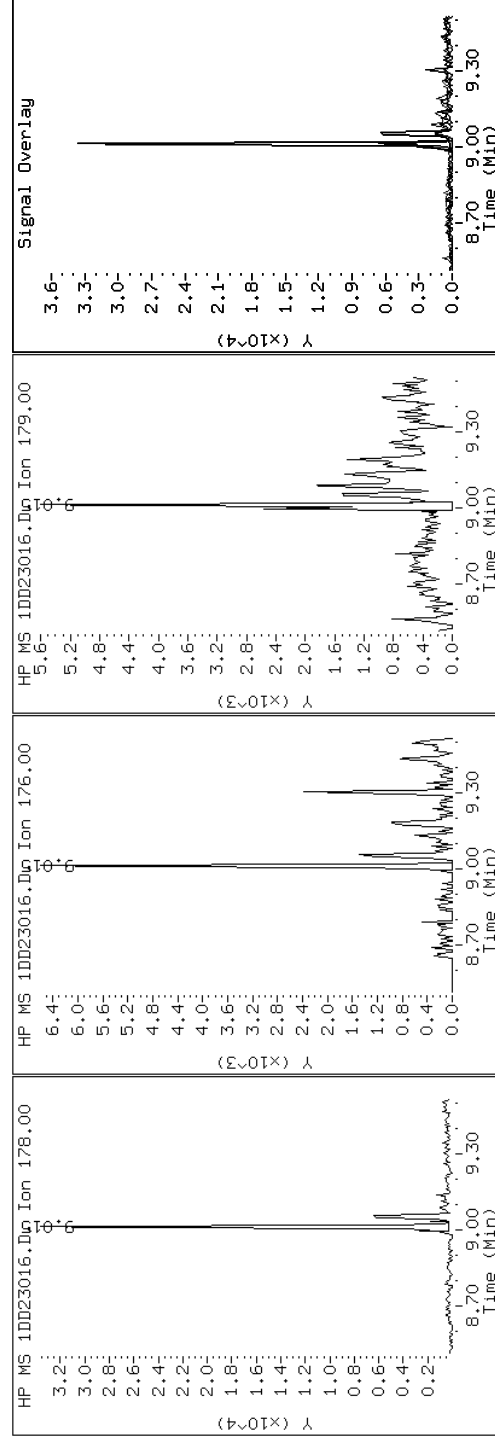
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

Instrument: BSMSD.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23016.D

Date: 23-APR-2013 18:37

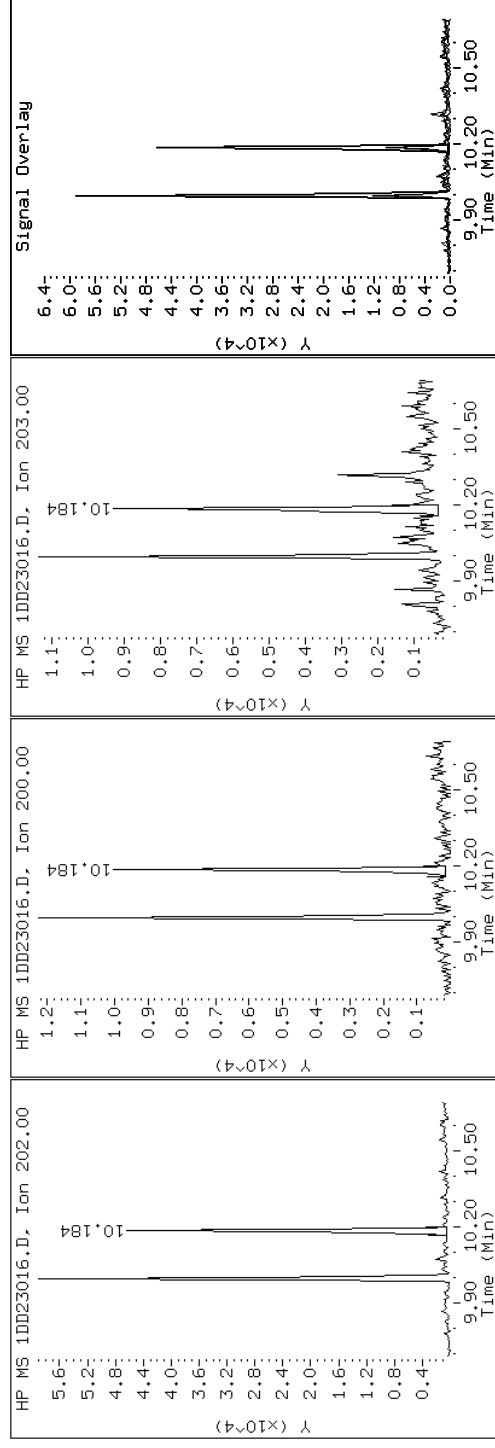
Client ID: CV1282A-CS-SP

Sample Info: 680-89459-A-14-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

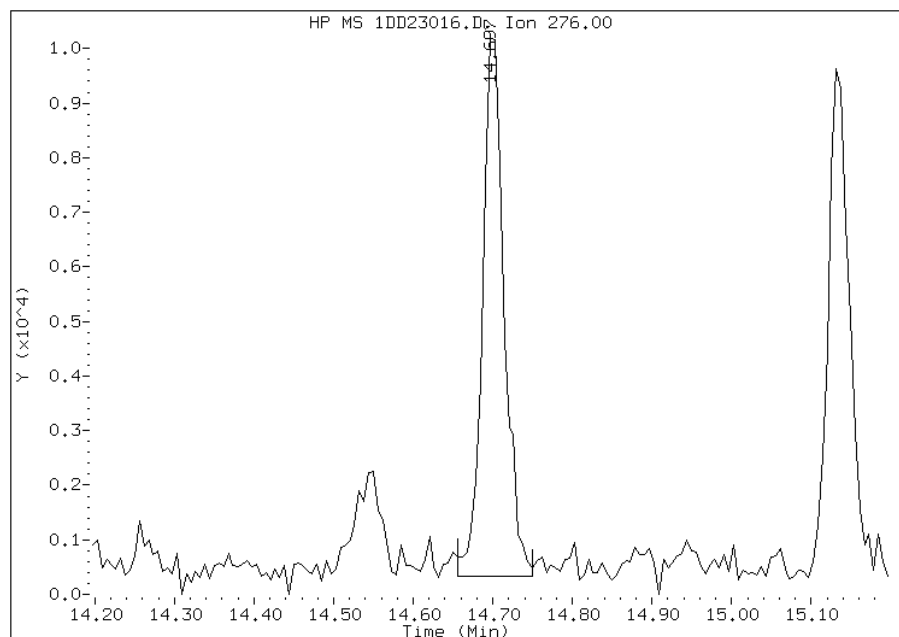


Manual Integration Report

Data File: 1DD23016.D
Inj. Date and Time: 23-APR-2013 18:37
Instrument ID: BSMSD.i
Client ID: CV1282A-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

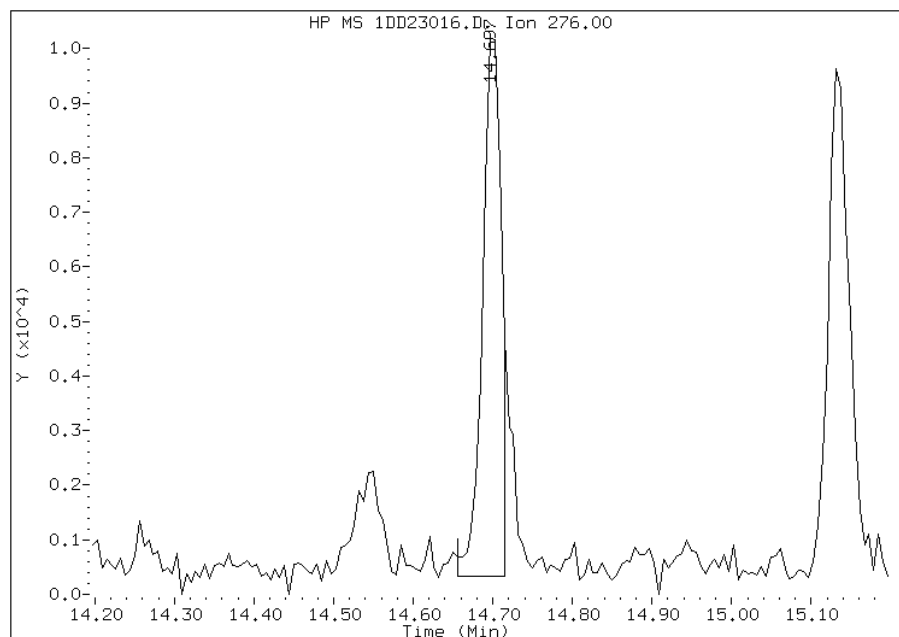
Processing Integration Results

RT: 14.70
Response: 18719
Amount: 0
Conc: 110



Manual Integration Results

RT: 14.70
Response: 16215
Amount: 0
Conc: 95



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1282B-CS-SP</u>	Lab Sample ID: <u>680-89459-15</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:40</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.09(g)</u>	Date Analyzed: <u>04/23/2013 19:00</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>20.5</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	42	J	200	25
120-12-7	Anthracene	120		42	21
56-55-3	Benzo[a]anthracene	450		40	20
50-32-8	Benzo[a]pyrene	390		52	26
205-99-2	Benzo[b]fluoranthene	720		61	31
191-24-2	Benzo[g,h,i]perylene	260		100	22
207-08-9	Benzo[k]fluoranthene	200		40	18
218-01-9	Chrysene	530		45	23
53-70-3	Dibenz(a,h)anthracene	97	J	100	21
206-44-0	Fluoranthene	720		100	20
86-73-7	Fluorene	36	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	240		100	36
90-12-0	1-Methylnaphthalene	120	J	200	22
91-57-6	2-Methylnaphthalene	150	J	200	36
91-20-3	Naphthalene	120	J	200	22
85-01-8	Phenanthrene	450		40	20
129-00-0	Pyrene	510		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23017.D
Lab Smp Id: 680-89459-A-15-A Client Smp ID: CV1282B-CS-SP
Inj Date : 23-APR-2013 19:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-15-A
Misc Info : 680-89459-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 16
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	20.496	% 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 (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.052	6.051	(1.000)		1727561	40.0000	
* 6 Acenaphthene-d10	164		7.732	7.732	(1.000)		994982	40.0000	
* 9 Phenanthrene-d10	188		8.996	8.995	(1.000)		1604161	40.0000	
\$ 13 o-Terphenyl	230		9.301	9.306	(1.034)		37190	1.53865	510
* 17 Chrysene-d12	240		11.305	11.304	(1.000)		1776231	40.0000	
* 22 Perylene-d12	264		13.132	13.120	(1.000)		2046421	40.0000	
2 Naphthalene	128		6.076	6.075	(1.004)		15459	0.36002	120
3 2-Methylnaphthalene	142		6.781	6.780	(1.120)		12164	0.43884	150
4 1-Methylnaphthalene	142		6.875	6.874	(1.136)		9220	0.35223	120
5 Acenaphthylene	152		7.609	7.608	(0.984)		5256	0.12481	42
8 Fluorene	166		8.202	8.208	(1.061)		3329	0.10815	36
10 Phenanthrene	178		9.013	9.013	(1.002)		59121	1.33800	450
11 Anthracene	178		9.054	9.054	(1.007)		15238	0.34746	120
12 Carbazole	167		9.195	9.195	(1.022)		8743	0.22601	75

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.000	10.000	(1.112)	97661	2.14783	720
15 Pyrene	202	10.182	10.188	(0.901)	81000	1.51856	510
16 Benzo(a)anthracene	228	11.293	11.287	(0.999)	70040	1.36386	450
18 Chrysene	228	11.328	11.328	(1.002)	75931	1.57690	520
19 Benzo(b)fluoranthene	252	12.586	12.585	(0.958)	110230	2.15630	720
20 Benzo(k)fluoranthene	252	12.615	12.620	(0.961)	32712	0.60741	200
21 Benzo(a)pyrene	252	13.032	13.032	(0.992)	59937	1.16691	390
23 Indeno(1,2,3-cd)pyrene	276	14.707	14.706	(1.120)	38893	0.71013	240(M)
24 Dibenzo(a,h)anthracene	278	14.724	14.735	(1.121)	14980	0.29045	97
25 Benzo(g,h,i)perylene	276	15.141	15.141	(1.153)	40780	0.77330	260

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23017.D

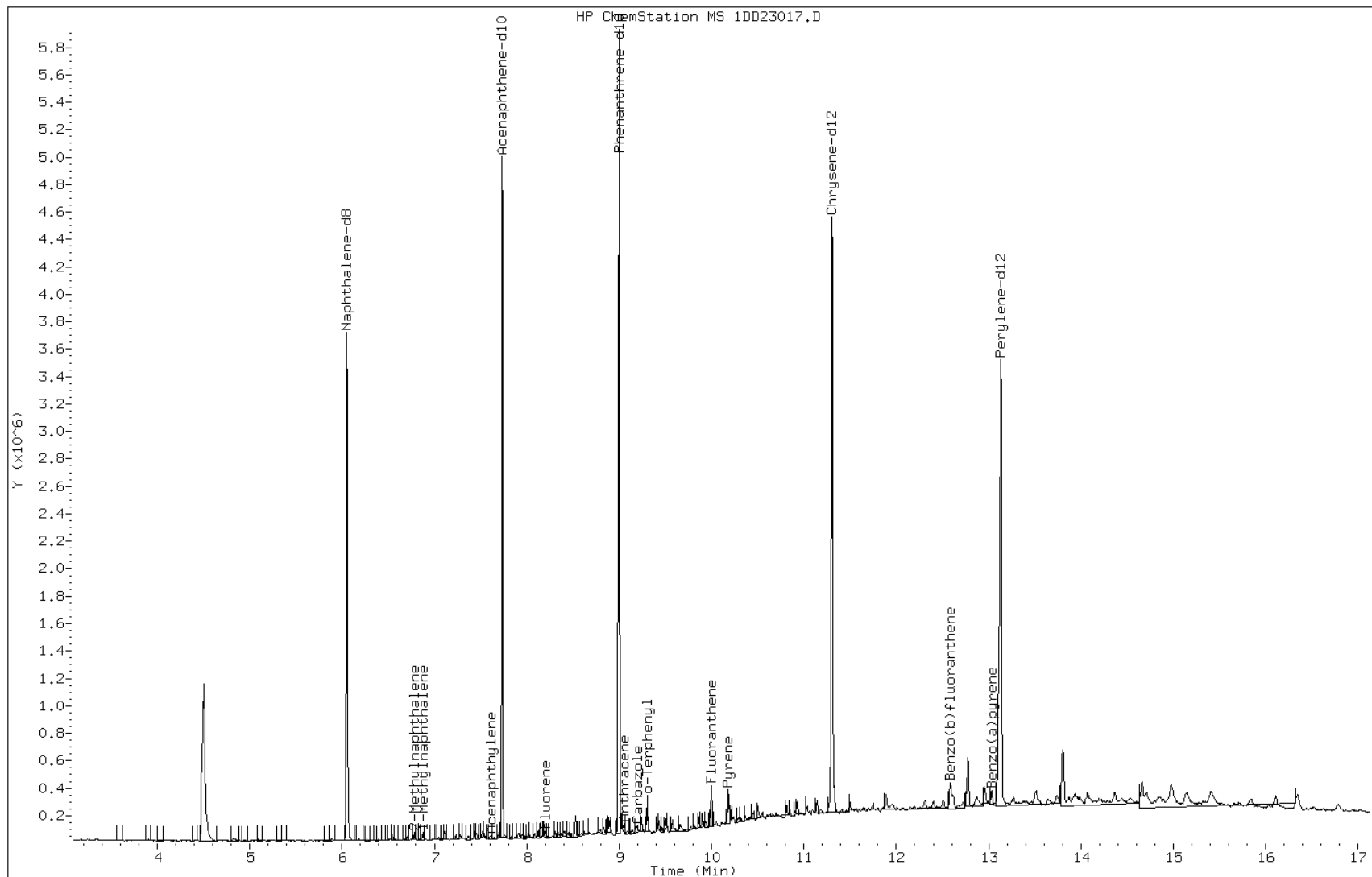
Date: 23-APR-2013 19:00

Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

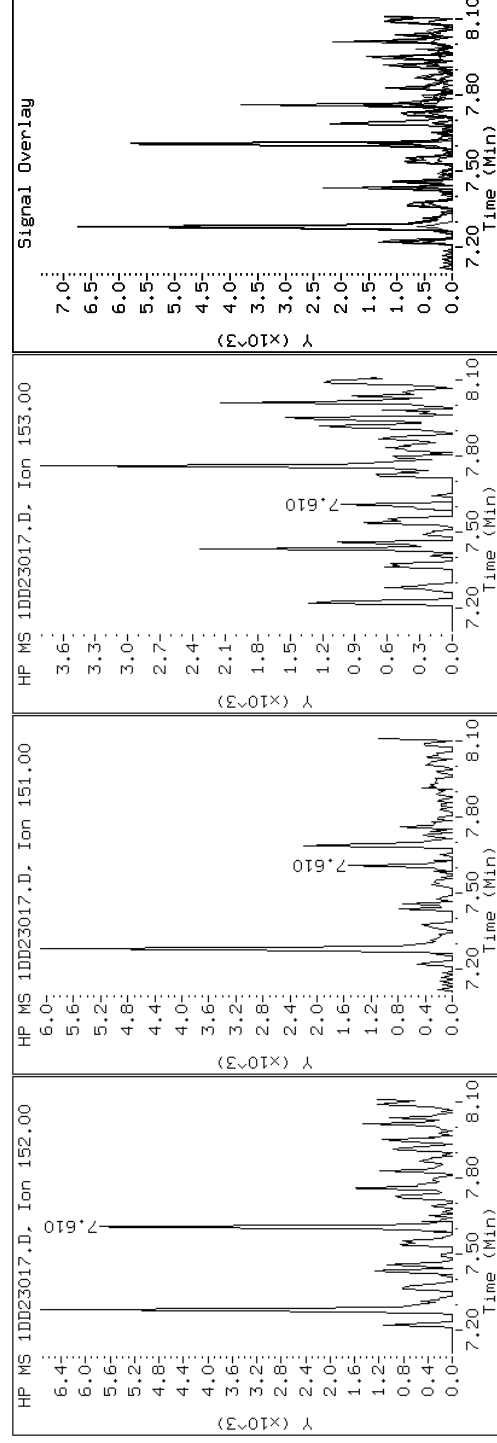
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

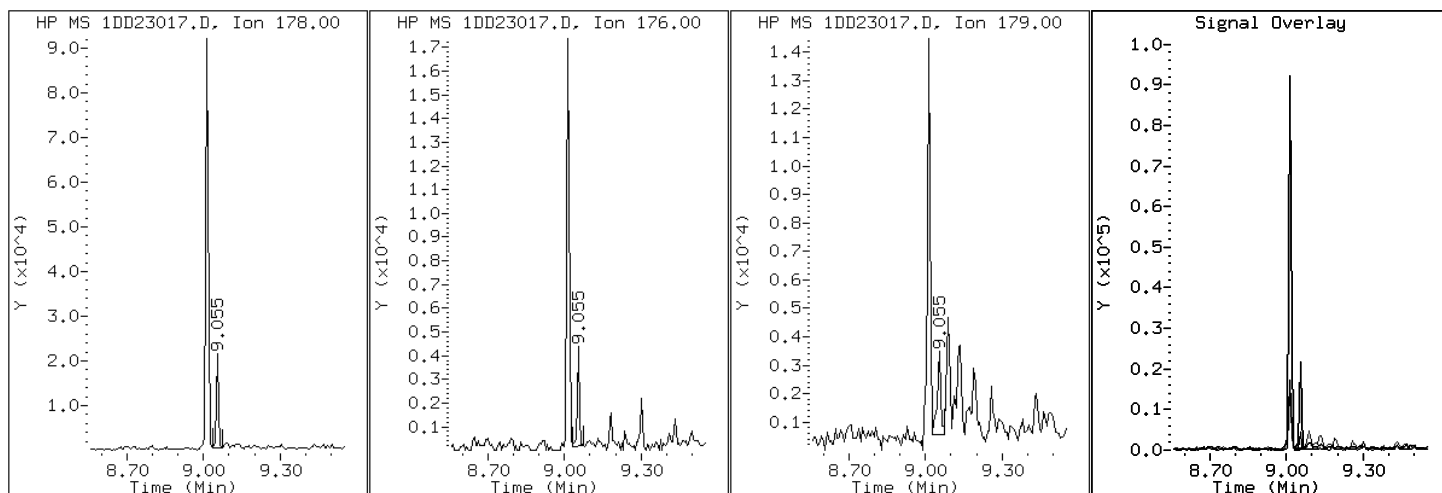
Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC

11 Anthracene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

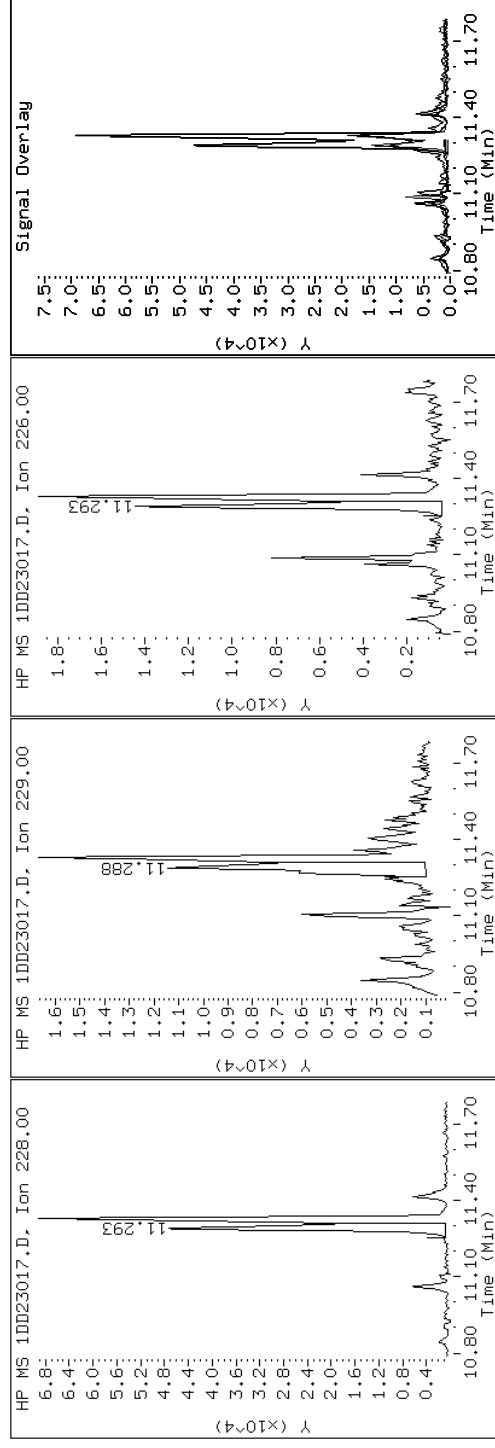
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

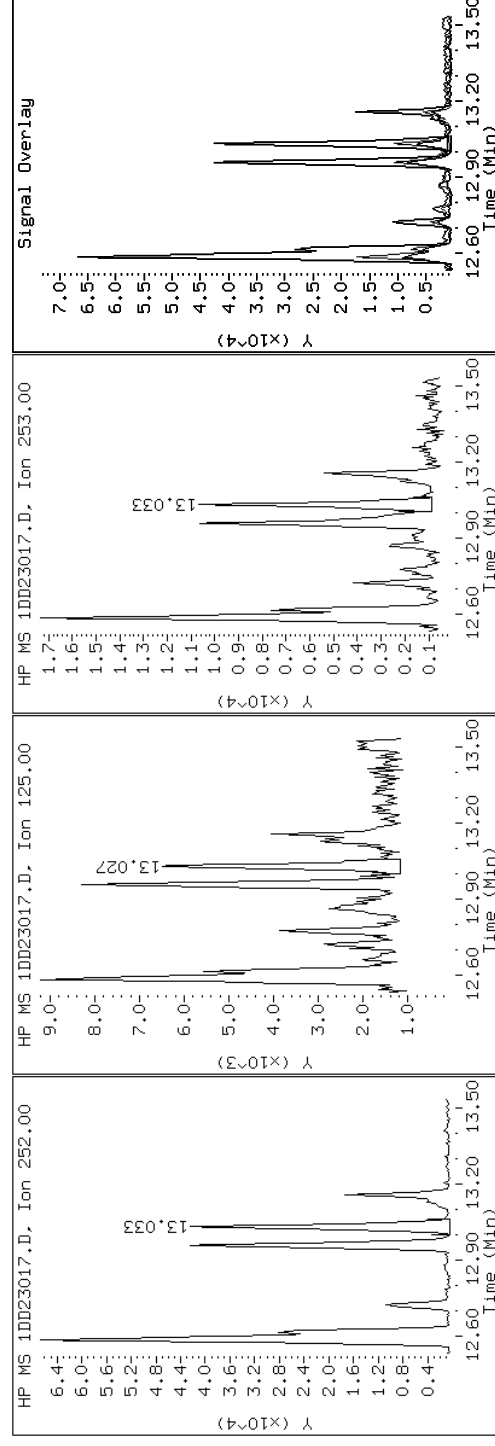
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

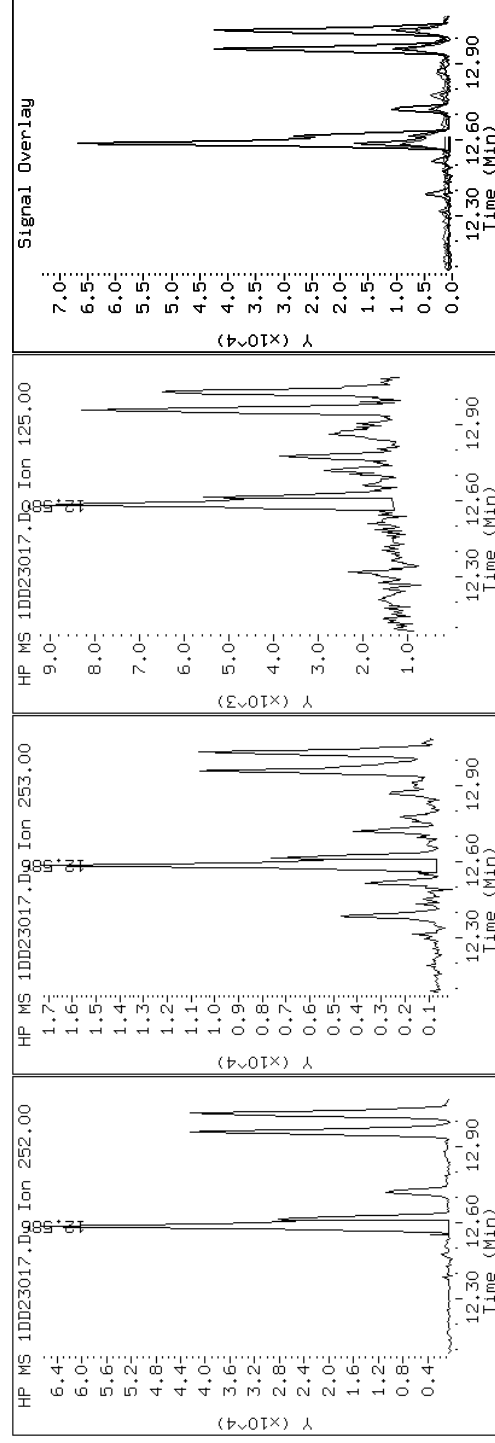
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

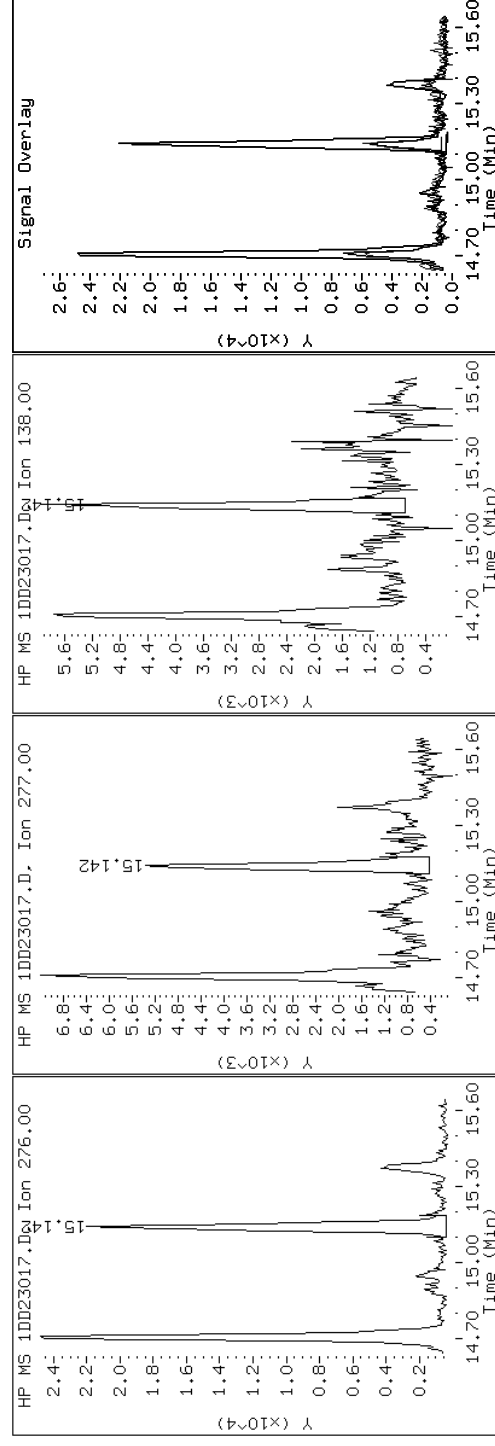
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

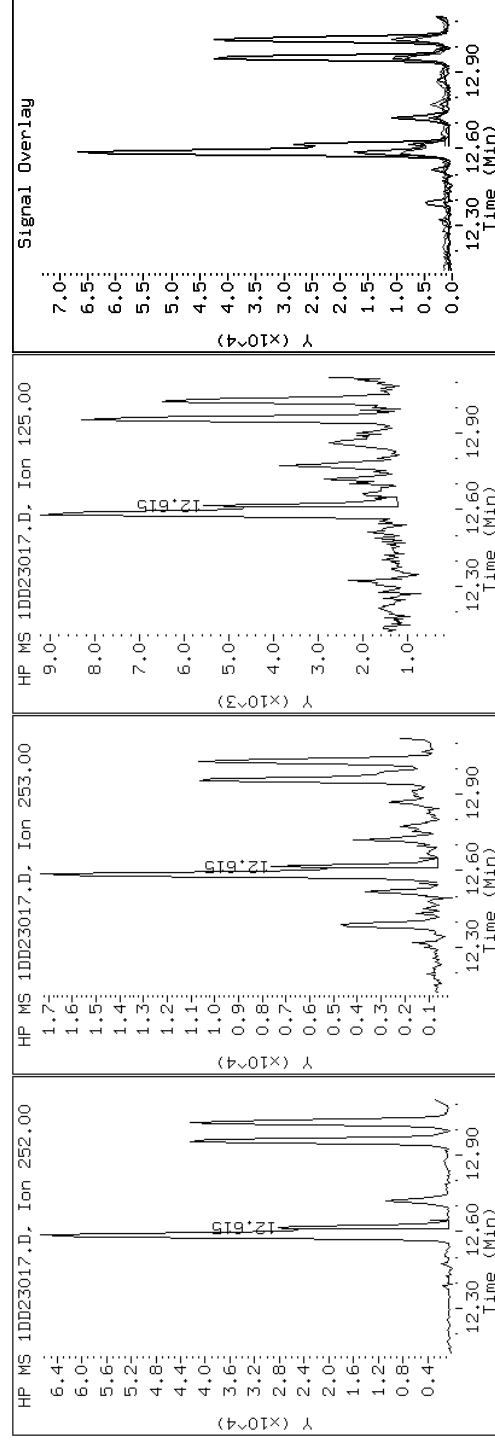
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

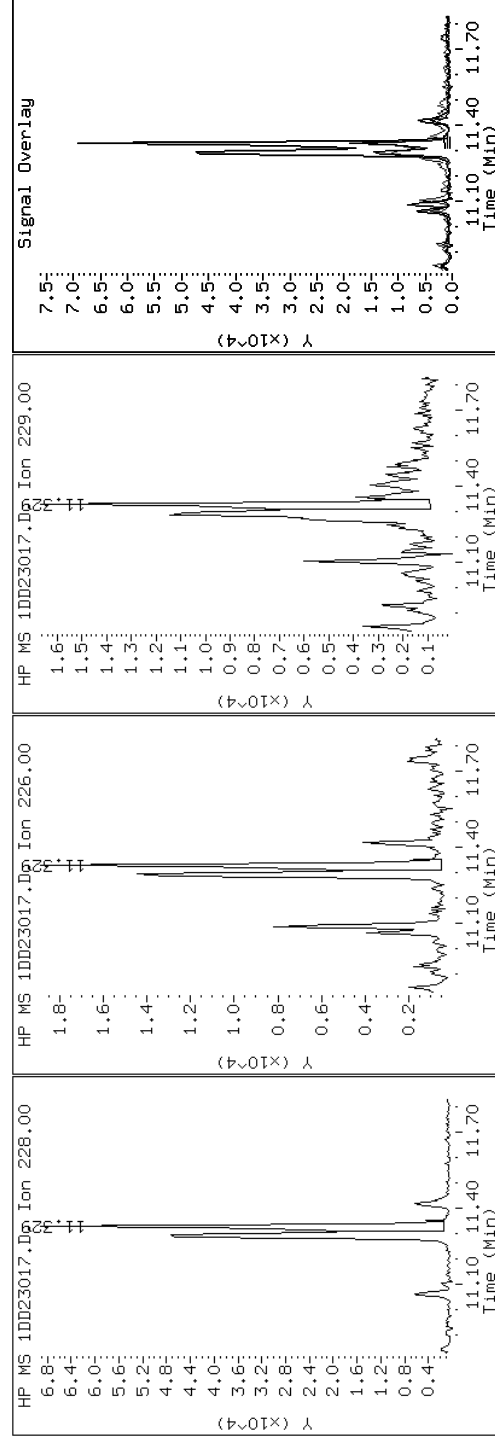
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

18 Chrysene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

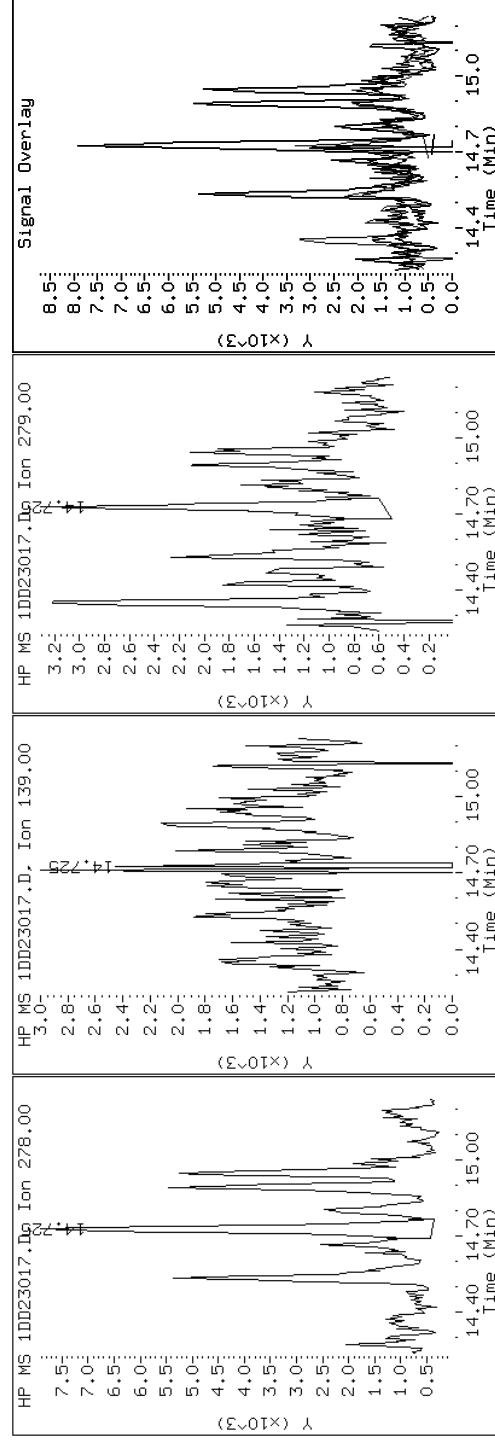
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

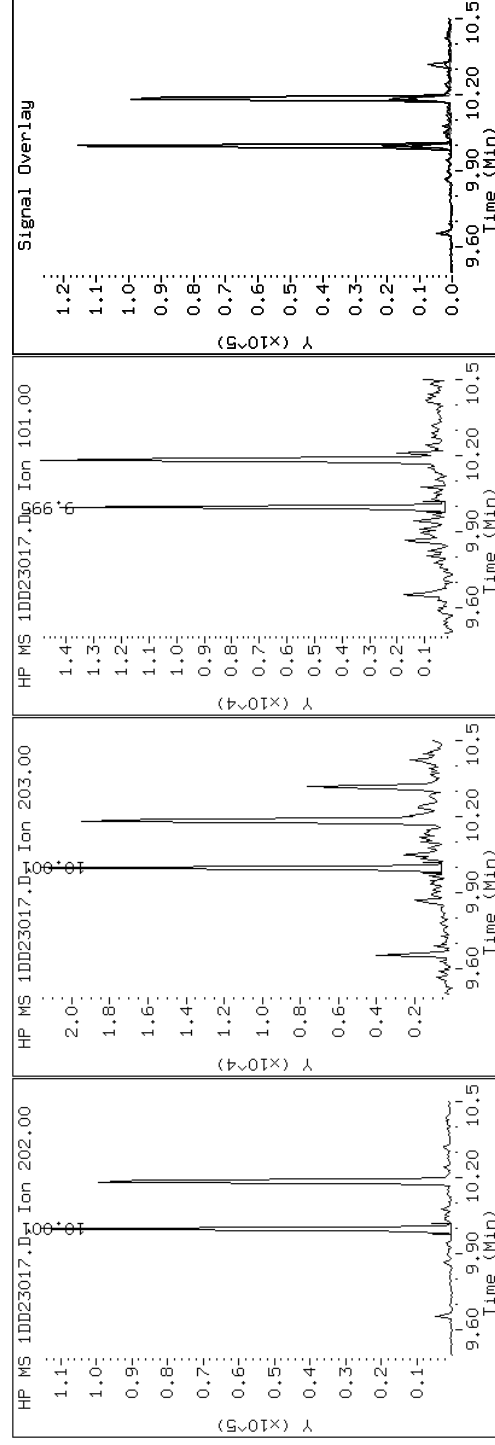
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

14 Fluoranthene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

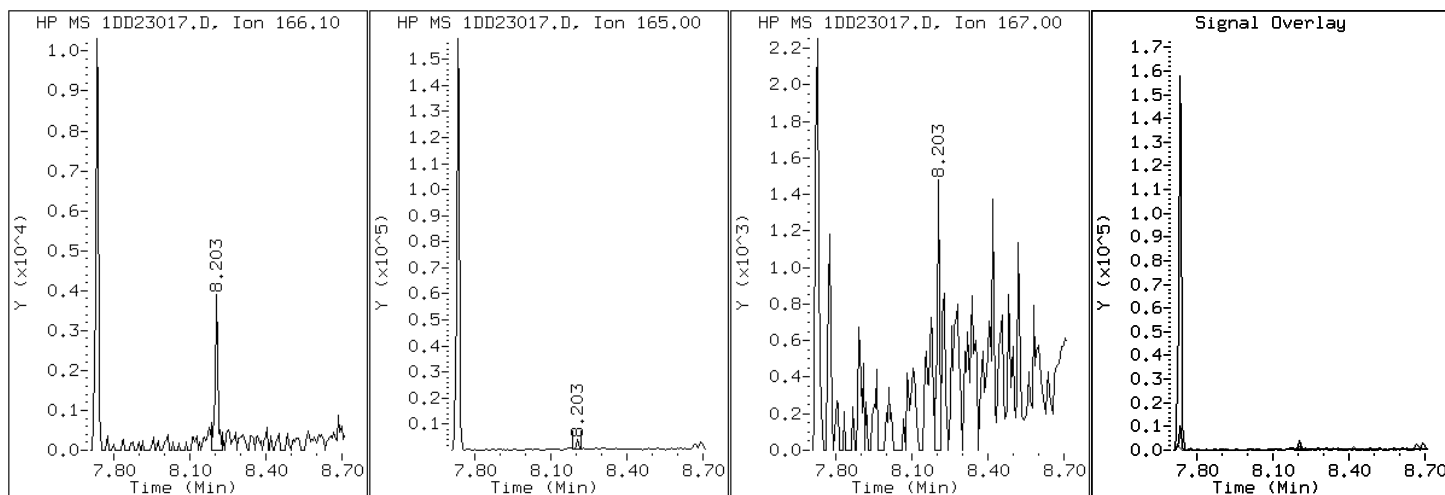
Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC

8 Fluorene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

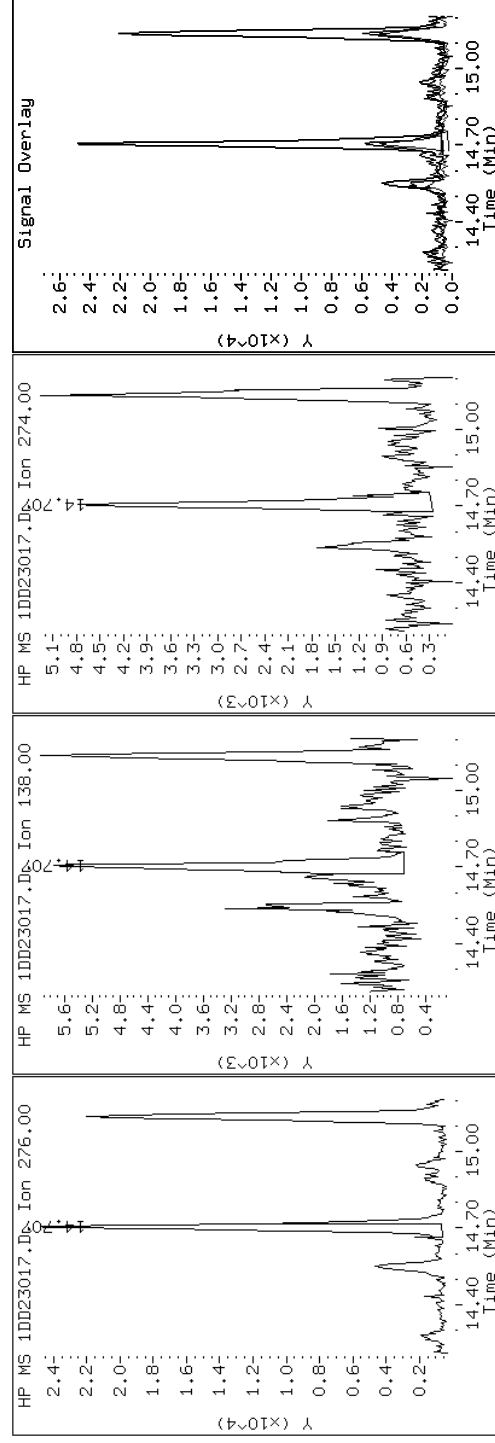
Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC

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



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

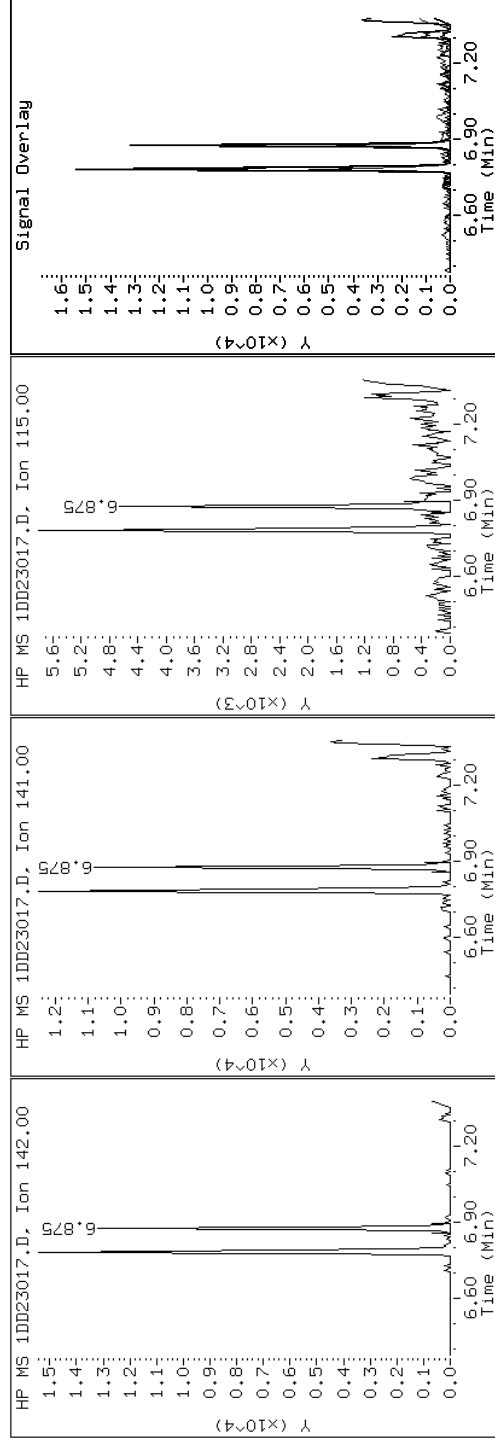
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

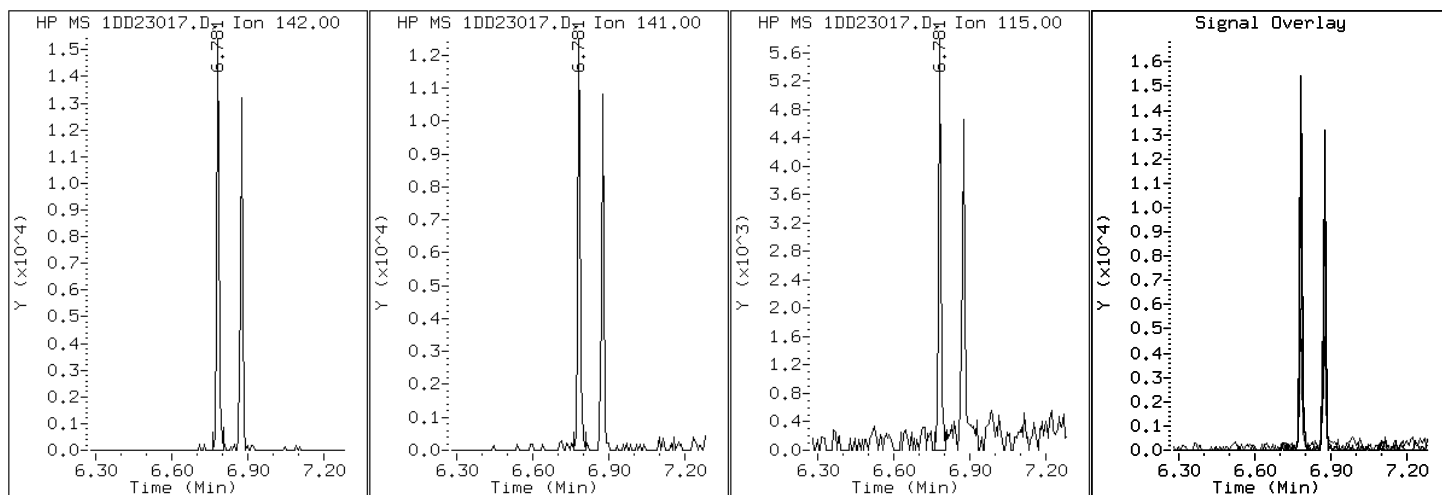
Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

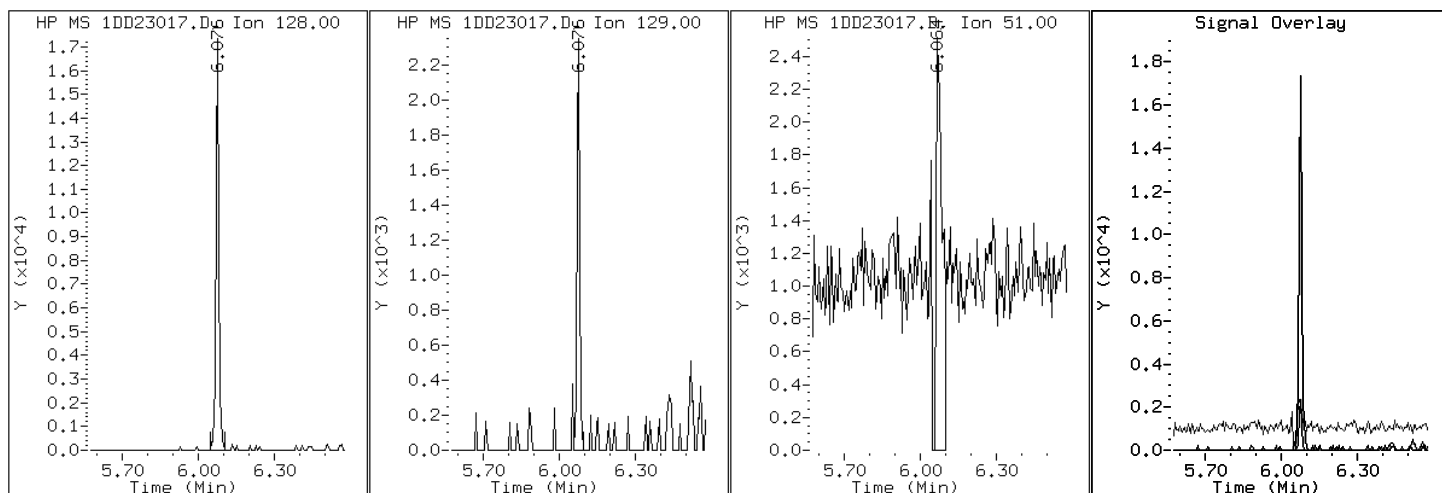
Client ID: CV1282B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-15-A

Operator: SCC

2 Naphthalene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

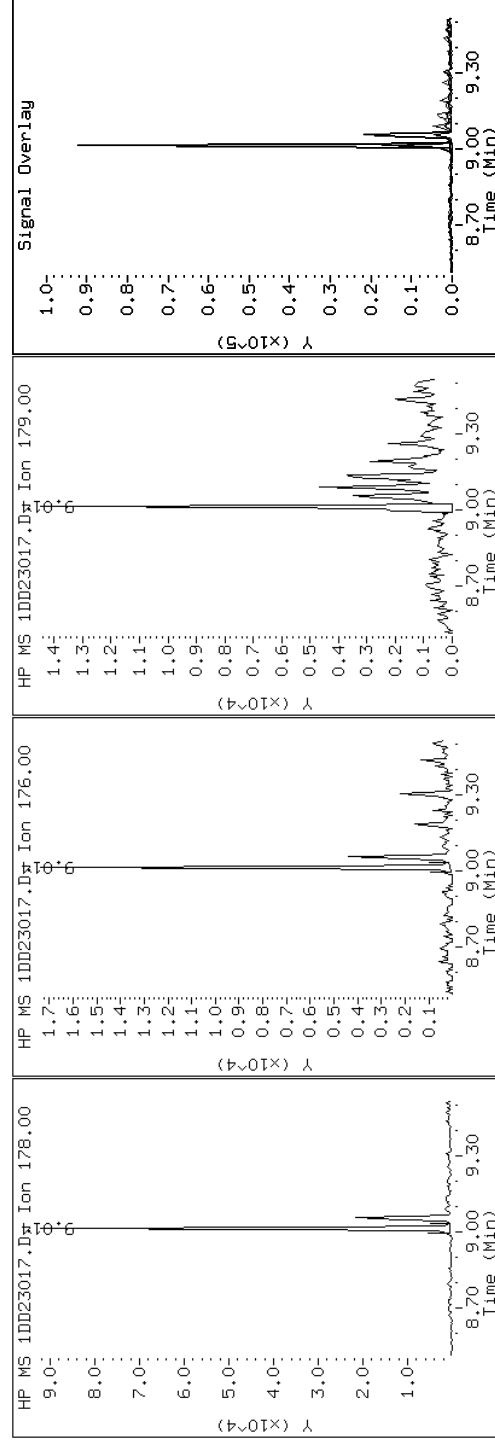
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23017.D

Date: 23-APR-2013 19:00

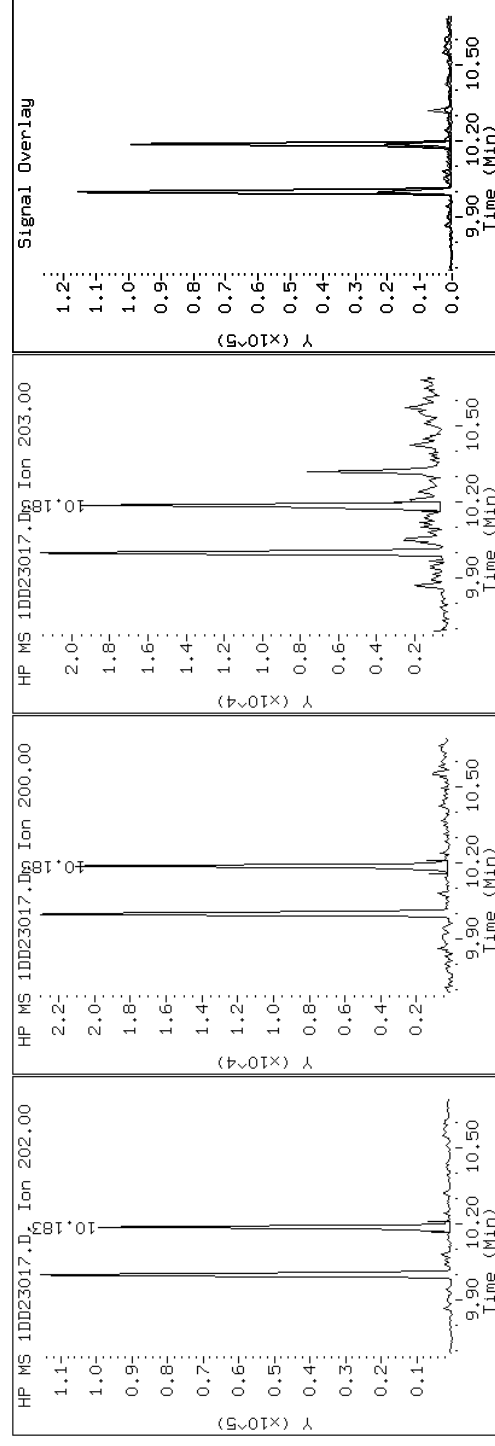
Client ID: CV1282B-CS-SP

Sample Info: 680-89459-A-15-A

Instrument: BSMDS.i

Operator: SCC

15 Pyrene

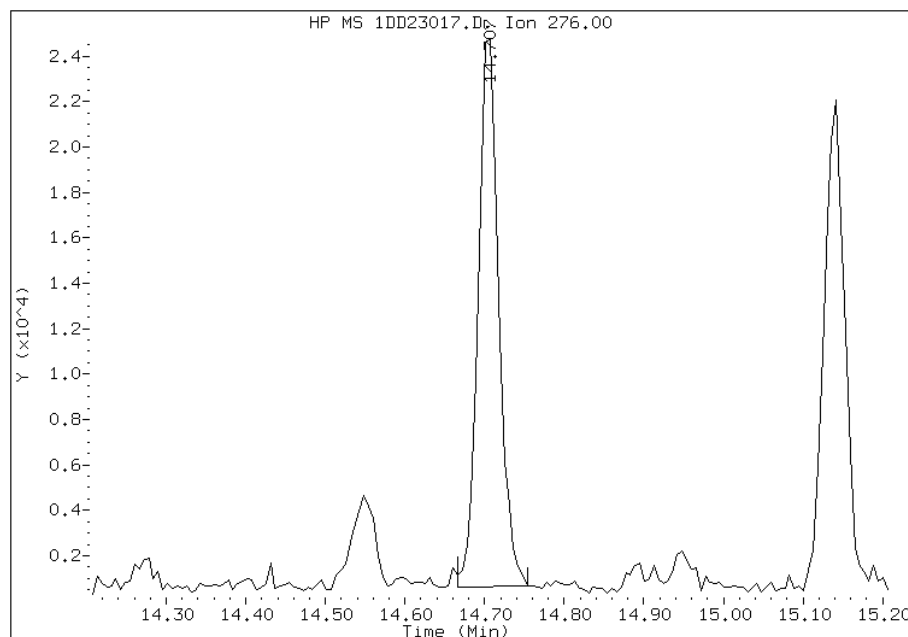


Manual Integration Report

Data File: 1DD23017.D
Inj. Date and Time: 23-APR-2013 19:00
Instrument ID: BSMSD.i
Client ID: CV1282B-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

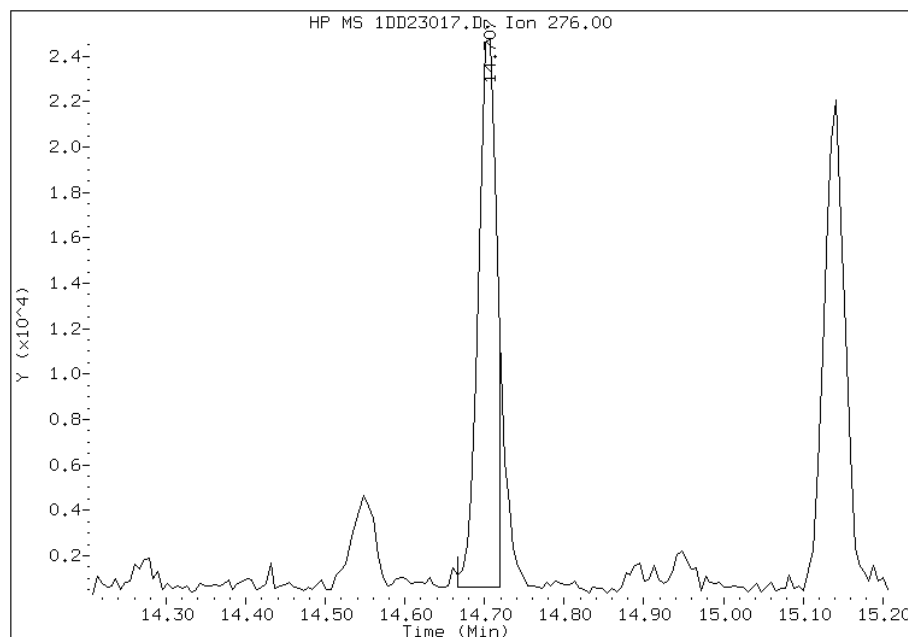
Processing Integration Results

RT: 14.71
Response: 43151
Amount: 1
Conc: 263



Manual Integration Results

RT: 14.71
Response: 38893
Amount: 1
Conc: 237



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1282C-CS-SP</u>	Lab Sample ID: <u>680-89459-16</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 09:55</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.22(g)</u>	Date Analyzed: <u>04/23/2013 19:22</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>22.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	54	J	200	26
120-12-7	Anthracene	110		43	21
56-55-3	Benzo[a]anthracene	350		41	20
50-32-8	Benzo[a]pyrene	320		53	27
205-99-2	Benzo[b]fluoranthene	650		62	31
191-24-2	Benzo[g,h,i]perylene	240		100	23
207-08-9	Benzo[k]fluoranthene	200		41	18
218-01-9	Chrysene	540		46	23
53-70-3	Dibenz(a,h)anthracene	89	J	100	21
206-44-0	Fluoranthene	590		100	20
86-73-7	Fluorene	34	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	220		100	36
90-12-0	1-Methylnaphthalene	90	J	200	23
91-57-6	2-Methylnaphthalene	100	J	200	36
91-20-3	Naphthalene	91	J	200	23
85-01-8	Phenanthrene	400		41	20
129-00-0	Pyrene	450		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23018.D
 Lab Smp Id: 680-89459-A-16-A Client Smp ID: CV1282C-CS-SP
 Inj Date : 23-APR-2013 19:22
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-16-A
 Misc Info : 680-89459-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 17
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	22.947	% 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		6.055	6.051	(1.000)		1842640	40.0000	
* 6 Acenaphthene-d10	164		7.736	7.732	(1.000)		1060581	40.0000	
* 9 Phenanthrene-d10	188		8.999	8.995	(1.000)		1789929	40.0000	
\$ 13 o-Terphenyl	230		9.305	9.306	(1.034)		34912	1.29450	440
* 17 Chrysene-d12	240		11.308	11.304	(1.000)		1884191	40.0000	
* 22 Perylene-d12	264		13.135	13.120	(1.000)		2081264	40.0000	
2 Naphthalene	128		6.073	6.075	(1.003)		12233	0.26710	91
3 2-Methylnaphthalene	142		6.784	6.780	(1.120)		8946	0.30259	100
4 1-Methylnaphthalene	142		6.872	6.874	(1.135)		7378	0.26426	90
5 Acenaphthylene	152		7.607	7.608	(0.983)		7123	0.15868	54
8 Fluorene	166		8.206	8.208	(1.061)		3276	0.09984	34
10 Phenanthrene	178		9.011	9.013	(1.001)		57713	1.17058	400
11 Anthracene	178		9.052	9.054	(1.006)		15953	0.32601	110
12 Carbazole	167		9.193	9.195	(1.022)		7229	0.16748	57

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.998	10.000	(1.111)	87188	1.71849	590
15 Pyrene	202	10.186	10.188	(0.901)	73971	1.30732	440
16 Benzo(a)anthracene	228	11.290	11.287	(0.998)	56208	1.03180	350
18 Chrysene	228	11.326	11.328	(1.002)	80665	1.57922	540
19 Benzo(b)fluoranthene	252	12.583	12.585	(0.958)	98750	1.89939	650(H)
20 Benzo(k)fluoranthene	252	12.612	12.620	(0.960)	31805	0.58068	200(H)
21 Benzo(a)pyrene	252	13.030	13.032	(0.992)	49616	0.94980	320
23 Indeno(1,2,3-cd)pyrene	276	14.704	14.706	(1.119)	35731	0.64147	220(M)
24 Dibenzo(a,h)anthracene	278	14.728	14.735	(1.121)	13654	0.26031	89
25 Benzo(g,h,i)perylene	276	15.139	15.141	(1.153)	38482	0.71751	240(M)

QC Flag Legend

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

Data File: 1DD23018.D

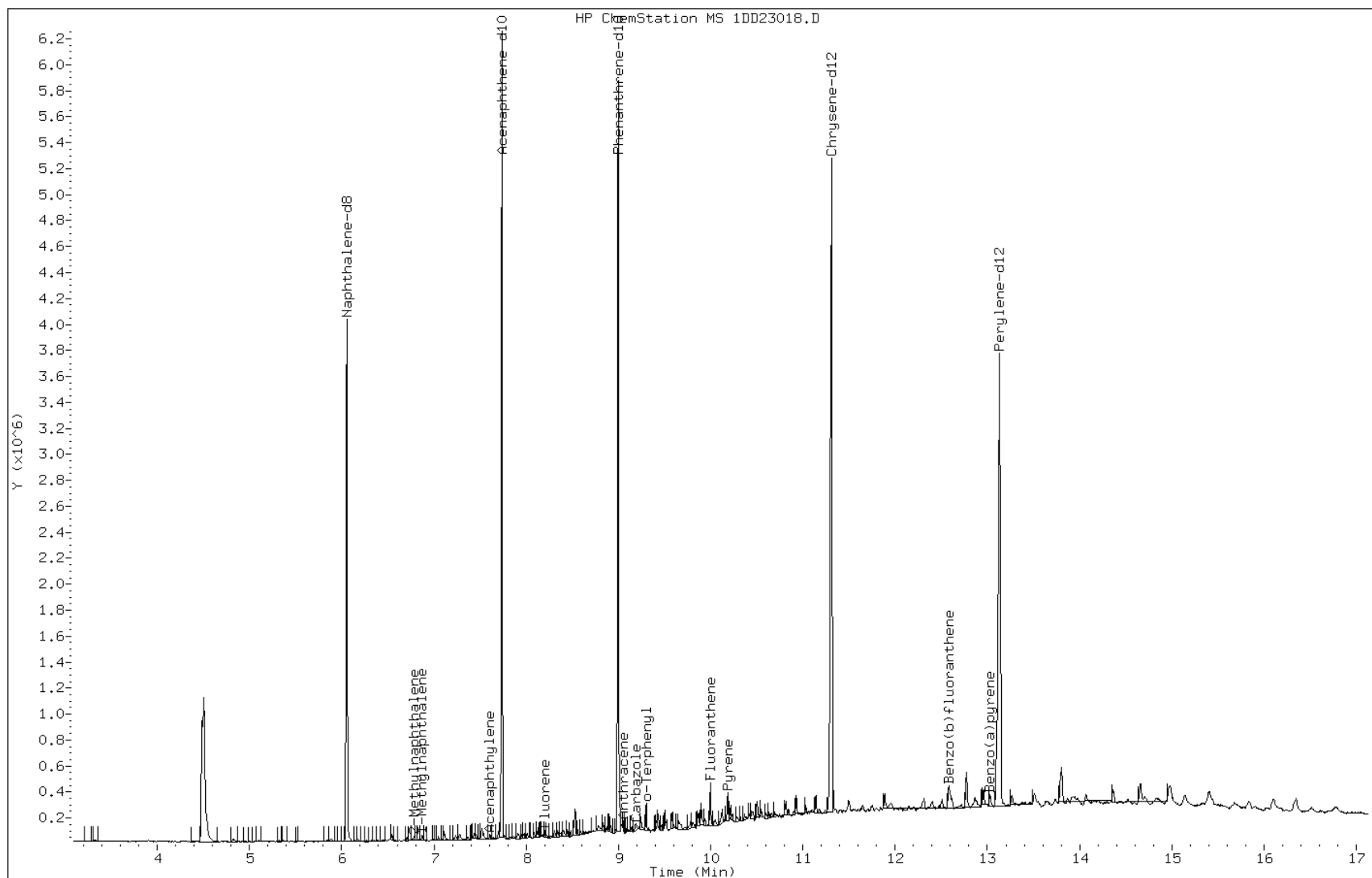
Date: 23-APR-2013 19:22

Client ID: CV1282C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-16-A

Operator: SCC



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

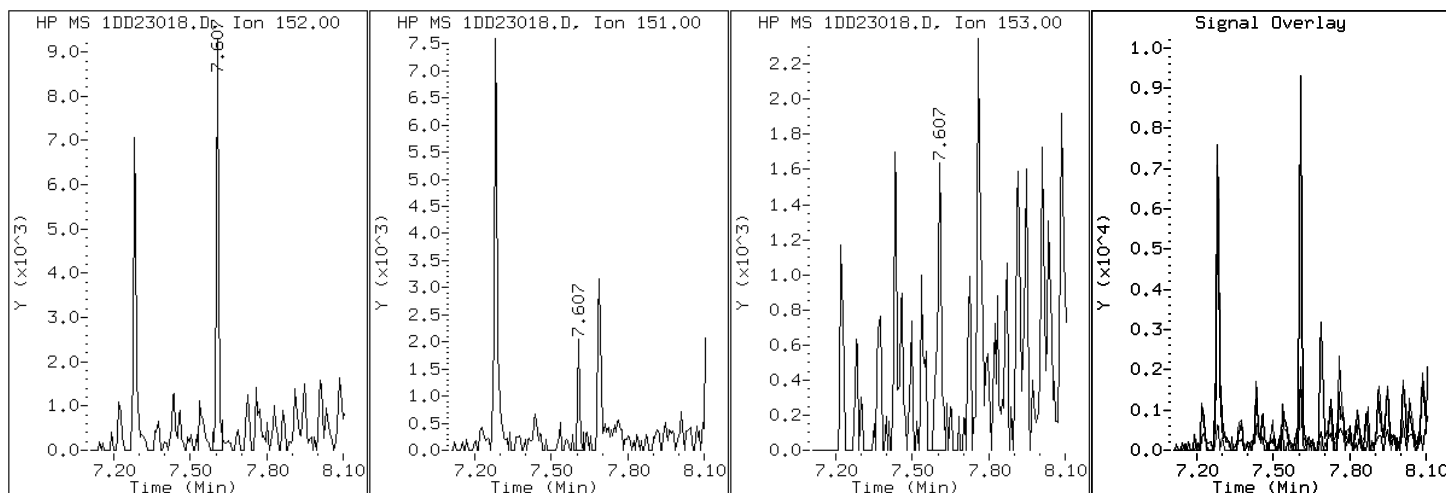
Client ID: CV1282C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-16-A

Operator: SCC

5 Acenaphthylene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

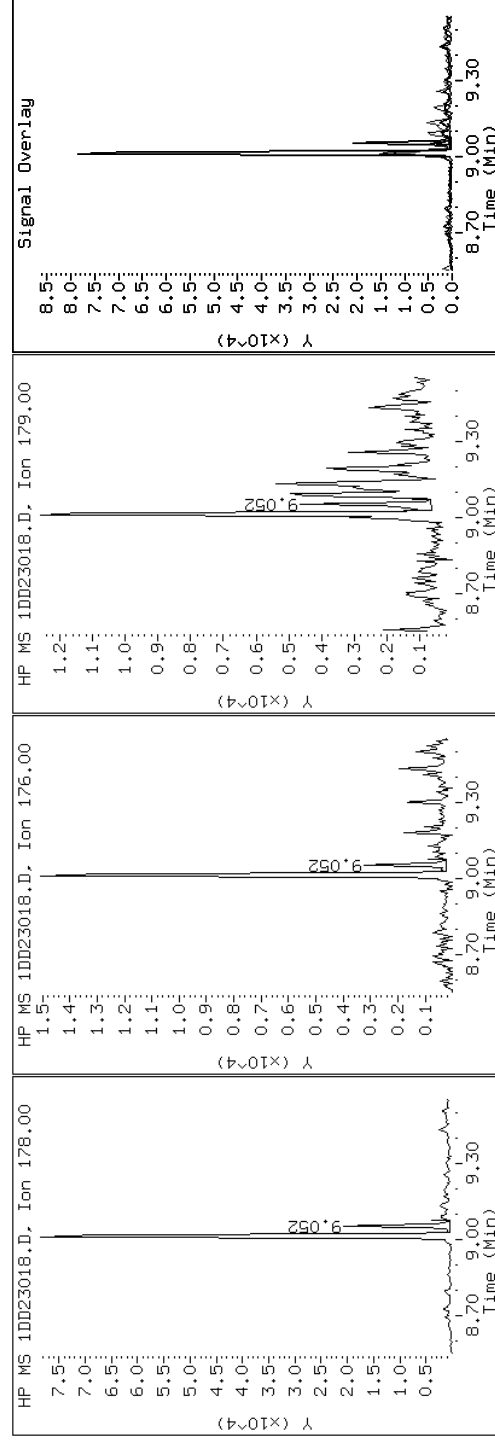
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

11 Anthracene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

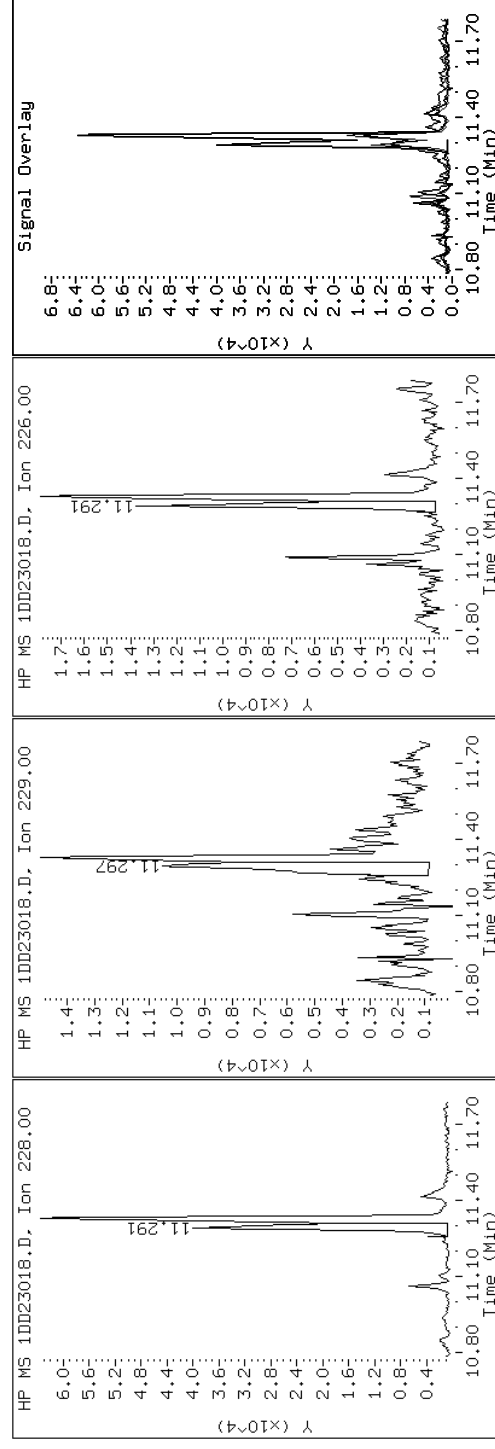
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

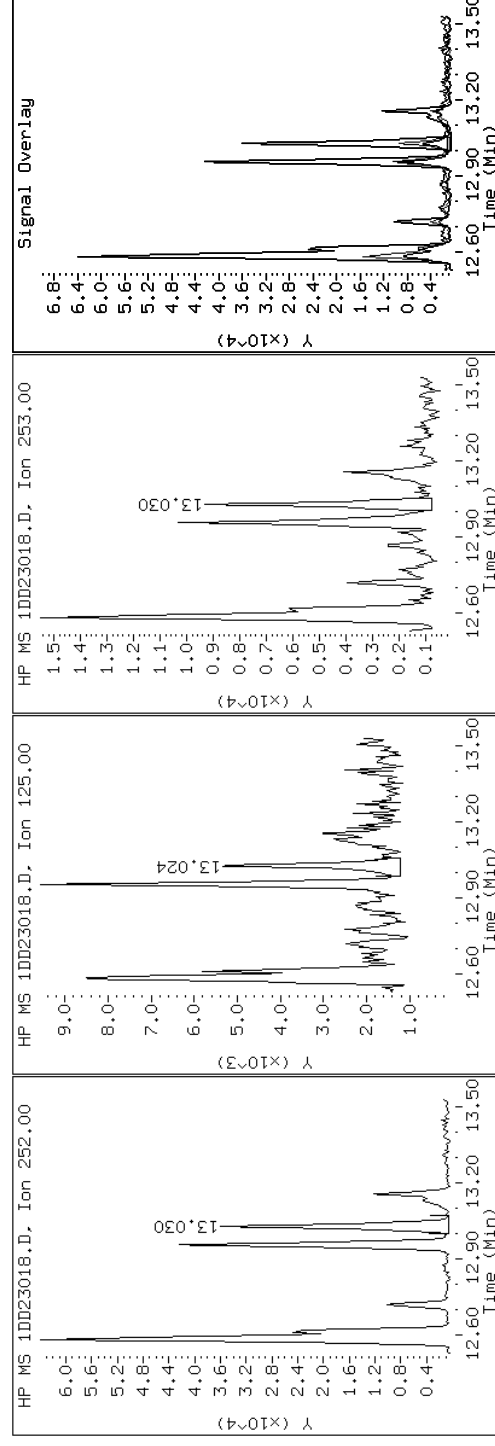
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

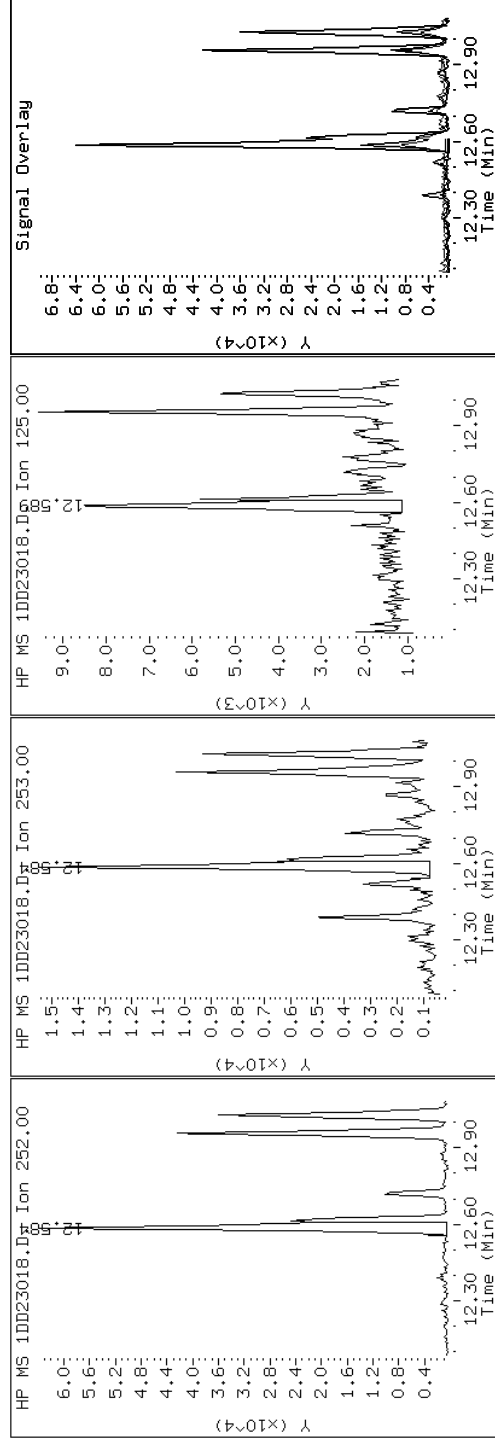
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

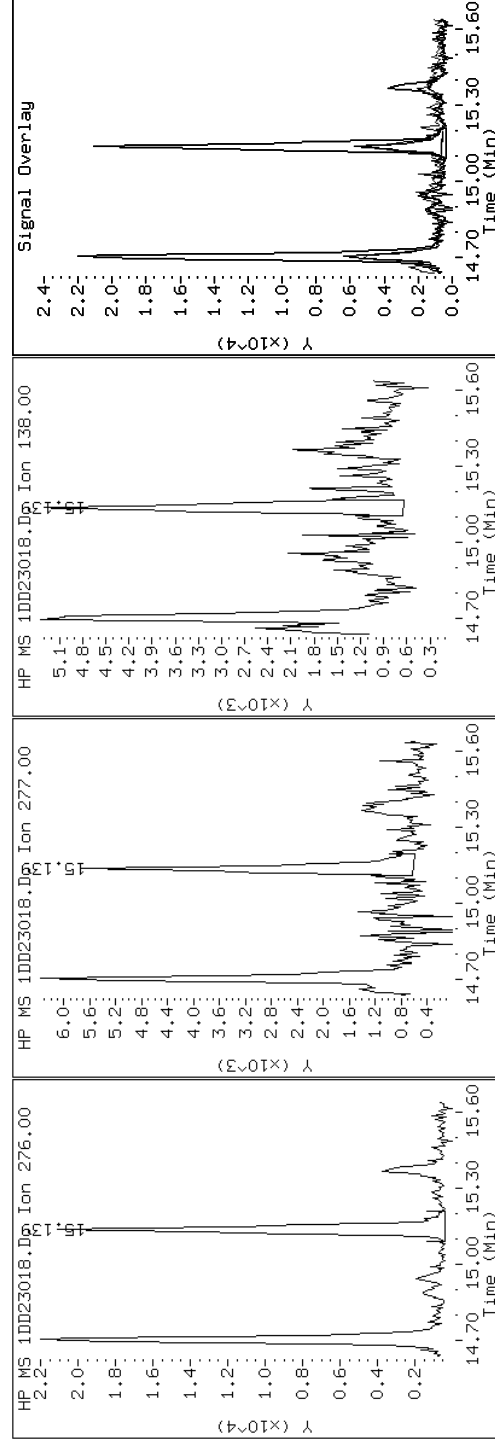
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

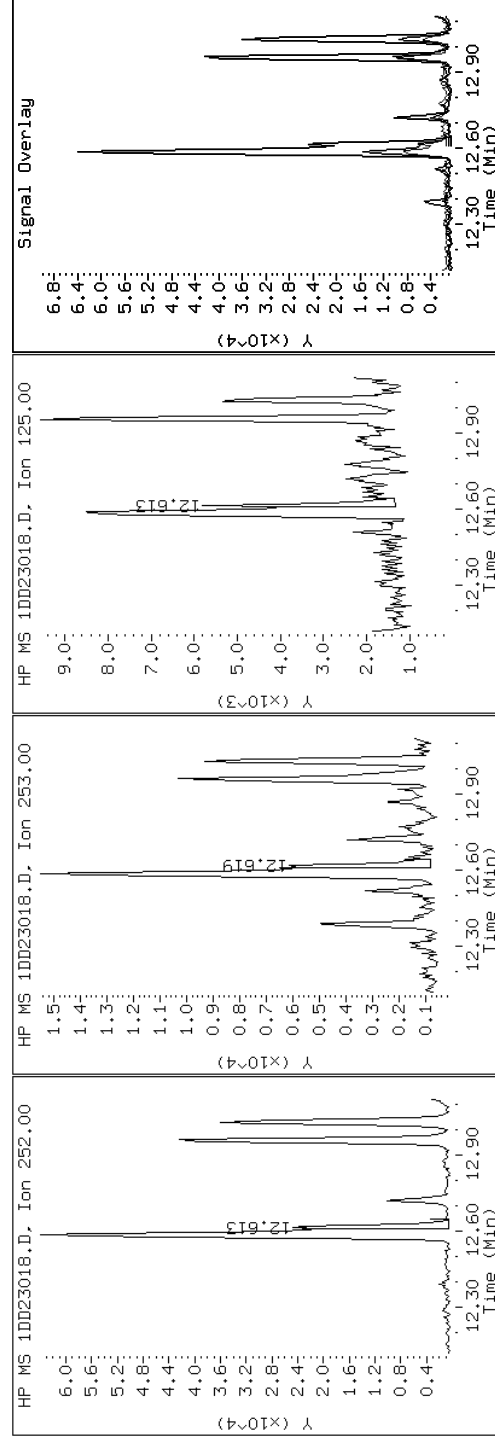
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

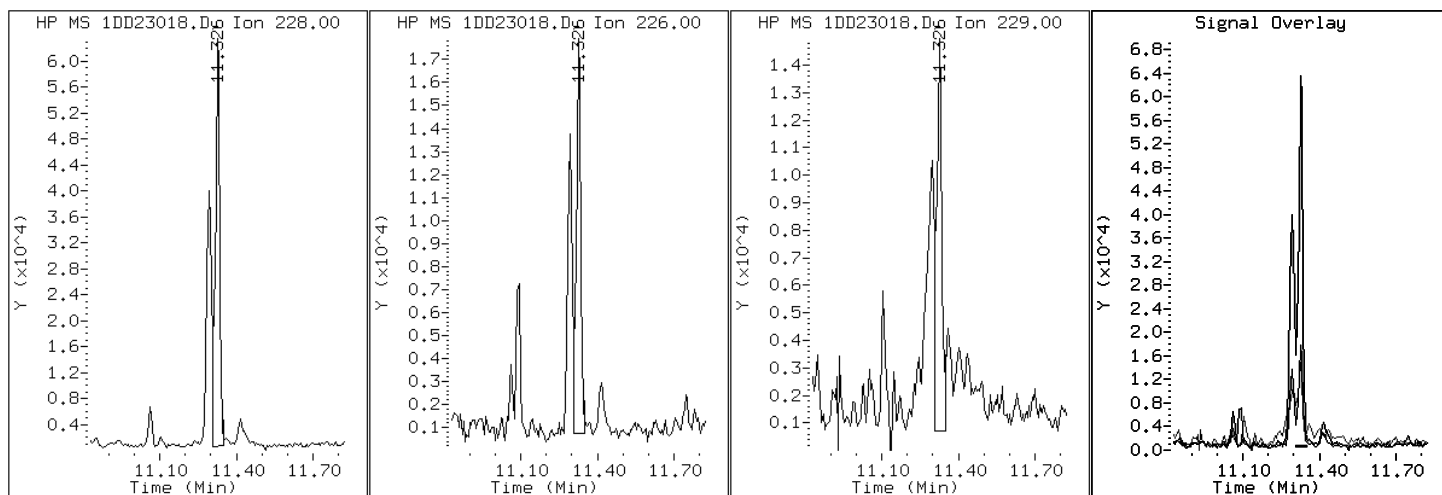
Client ID: CV1282C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-16-A

Operator: SCC

18 Chrysene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

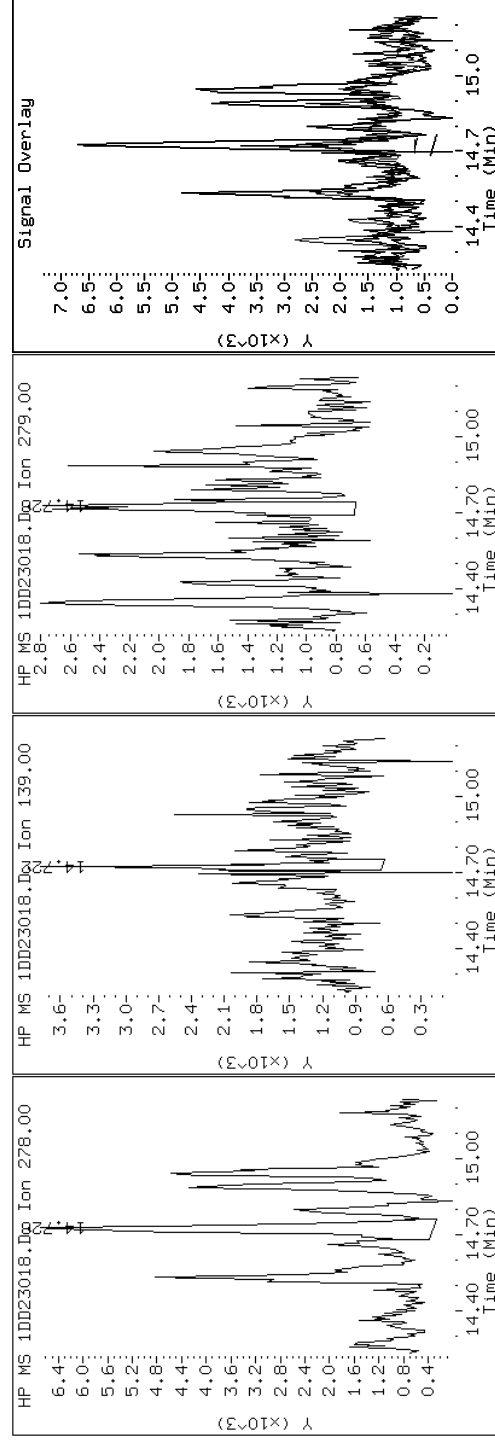
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

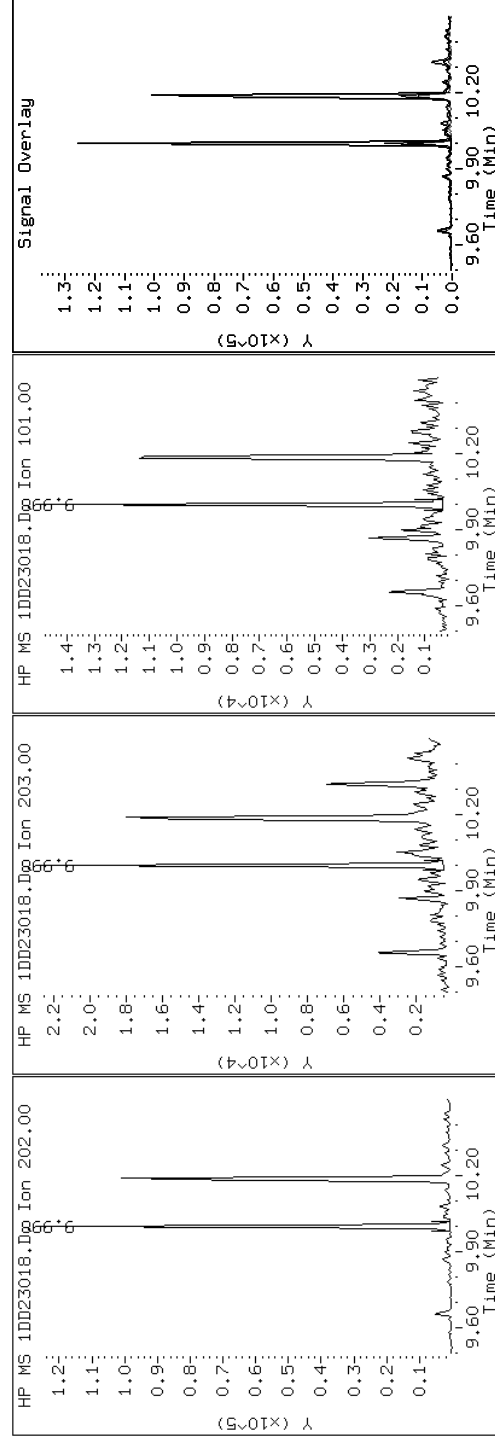
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

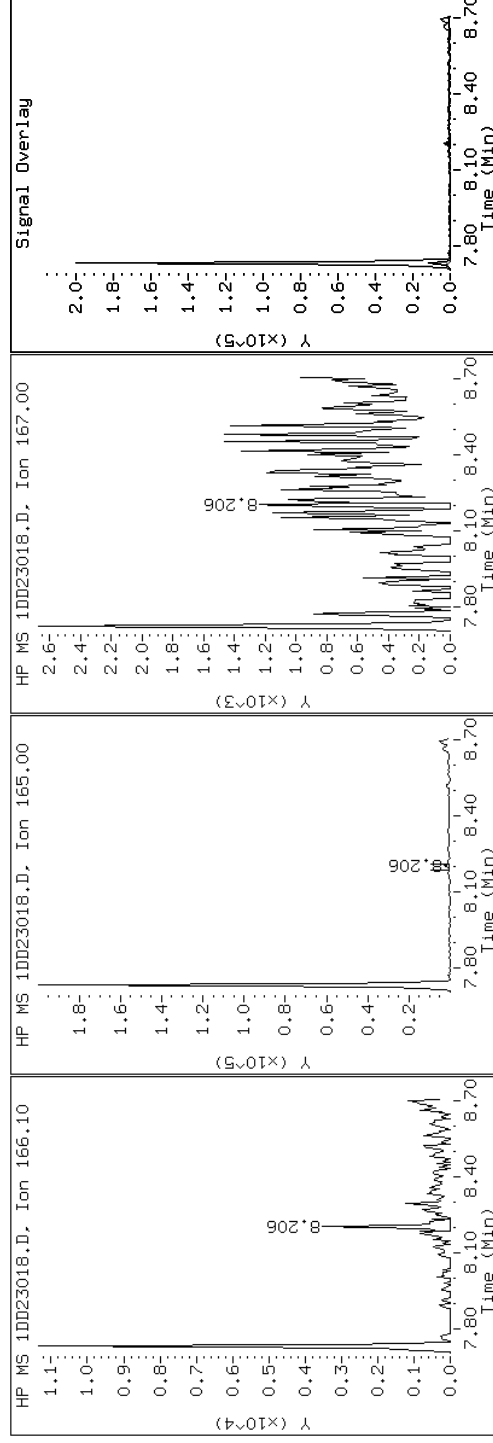
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

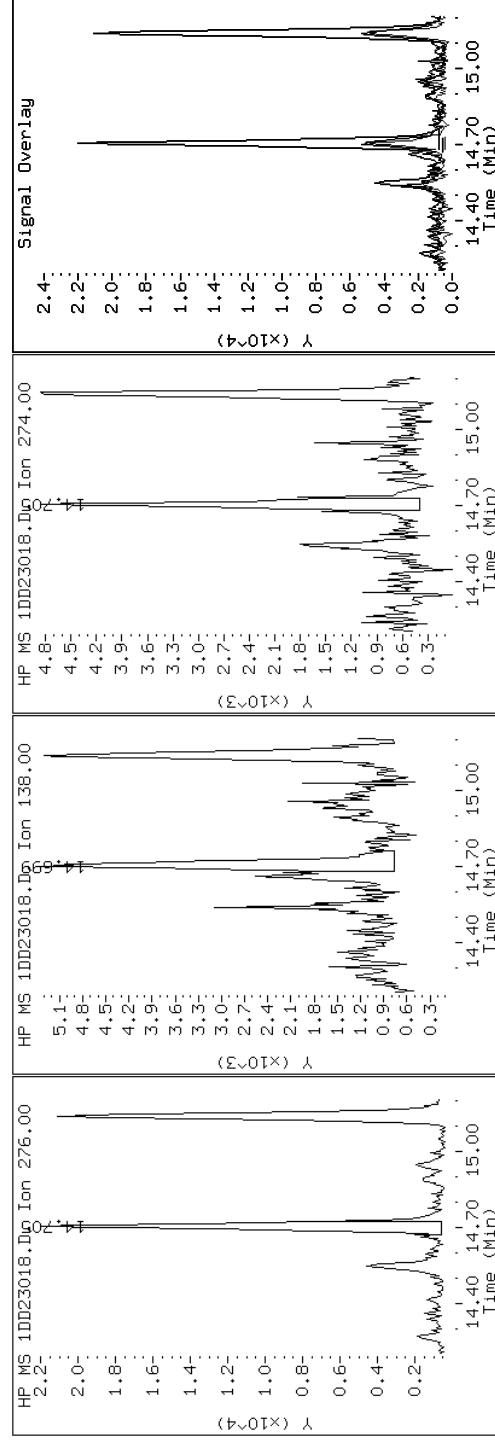
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

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



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

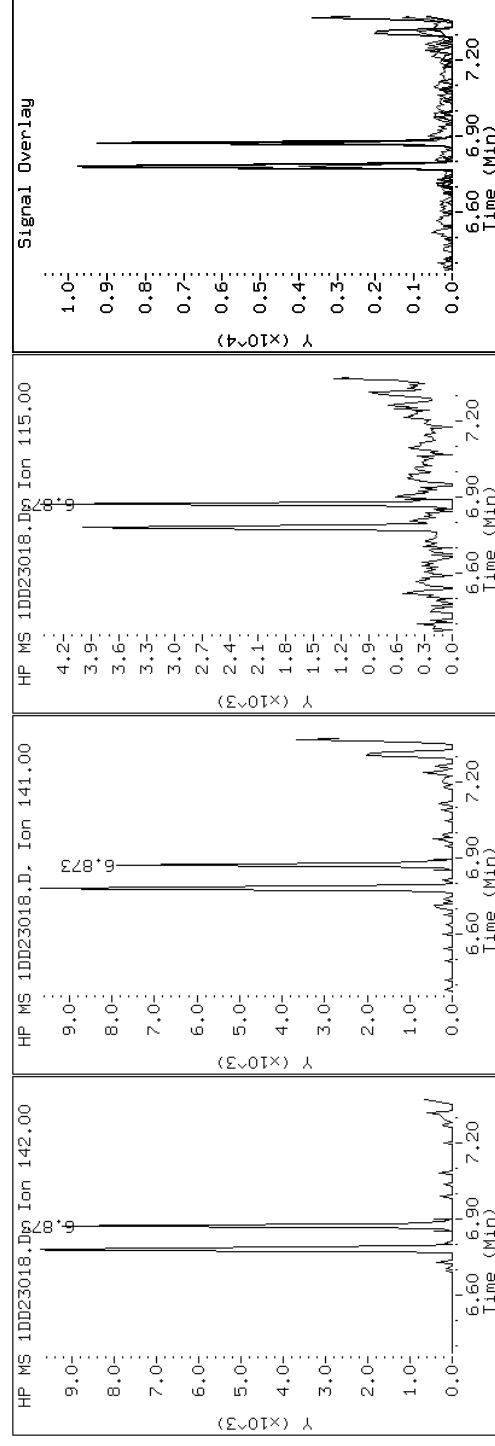
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

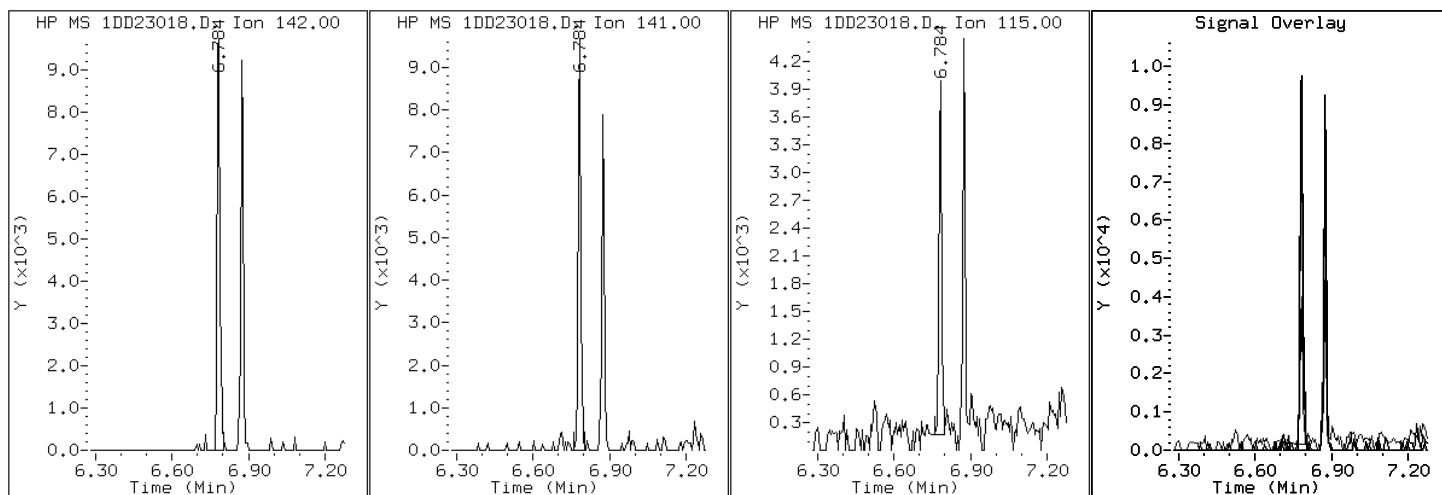
Client ID: CV1282C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-16-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

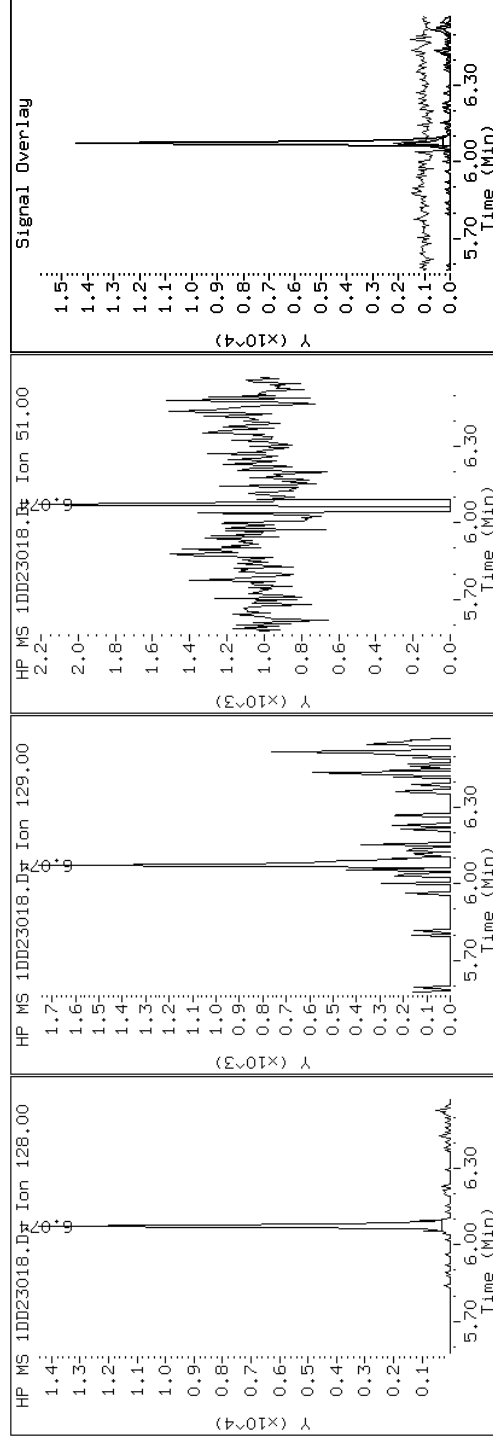
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

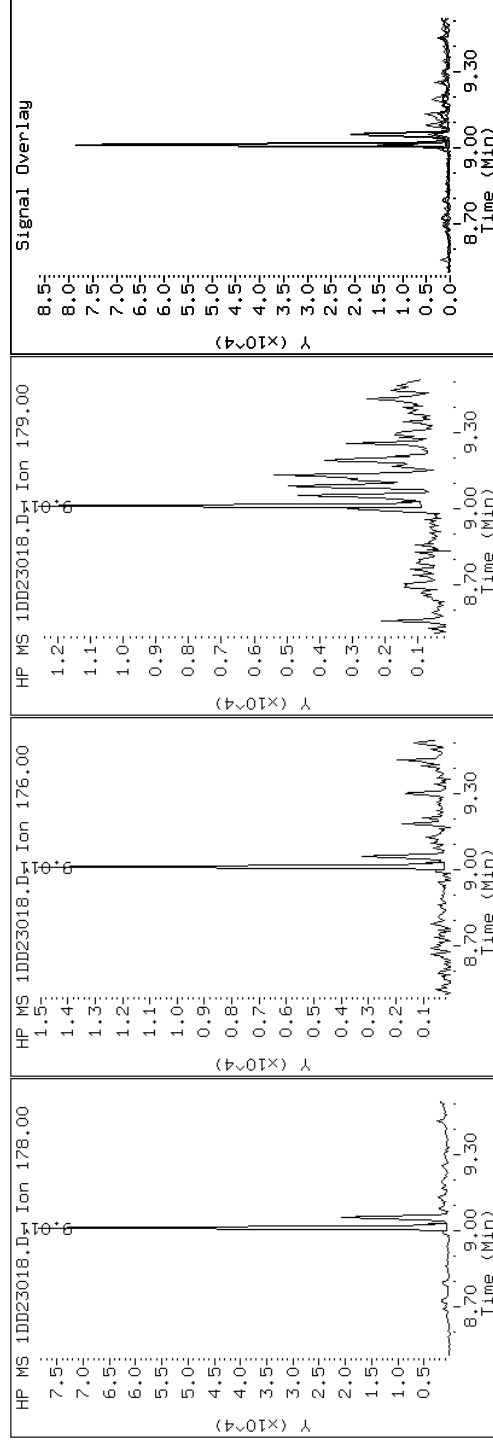
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23018.D

Date: 23-APR-2013 19:22

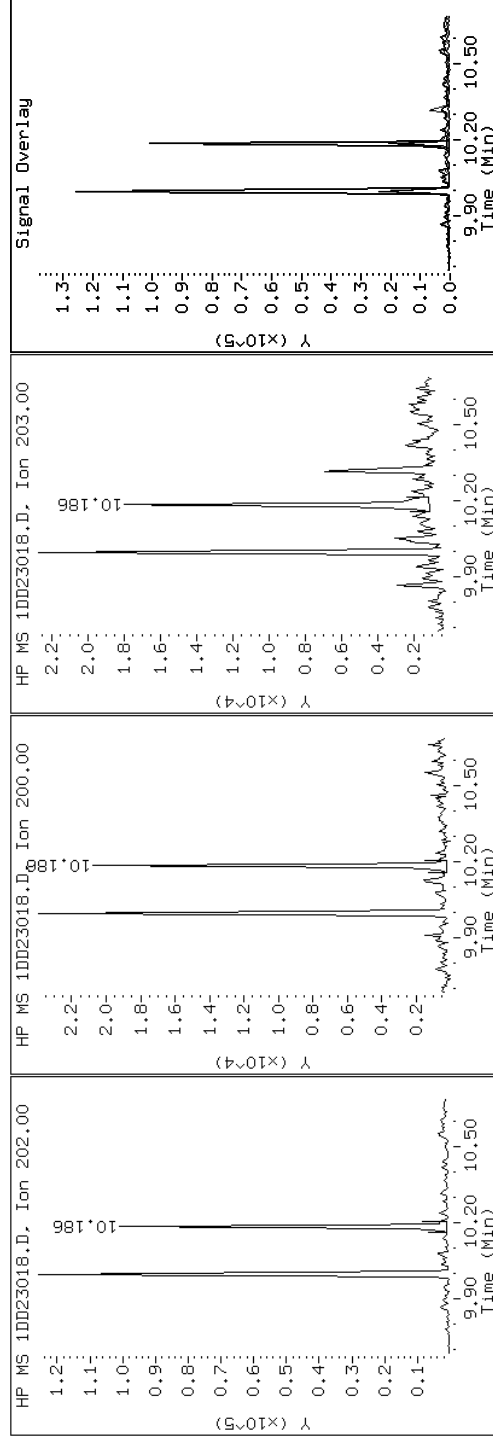
Client ID: CV1282C-CS-SP

Sample Info: 680-89459-A-16-A

Instrument: BSMSD.i

Operator: SCC

15 Pyrene

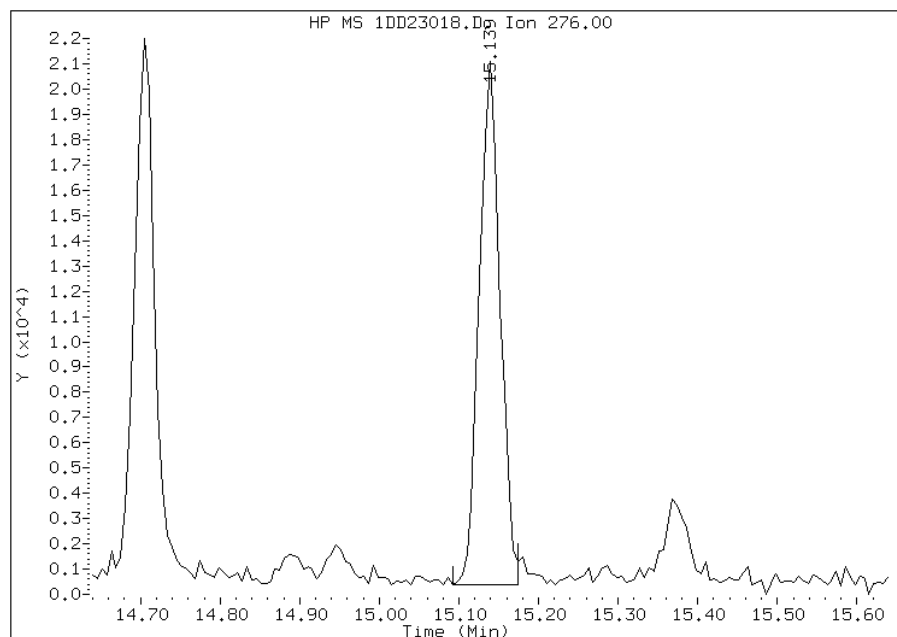


Manual Integration Report

Data File: 1DD23018.D
Inj. Date and Time: 23-APR-2013 19:22
Instrument ID: BSMSD.i
Client ID: CV1282C-CS-SP
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

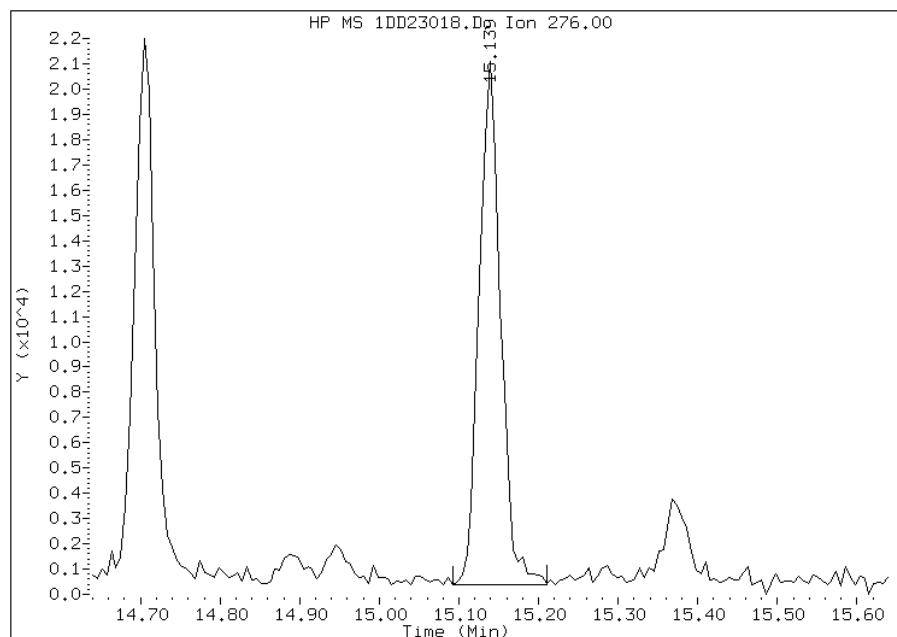
Processing Integration Results

RT: 15.14
Response: 37482
Amount: 1
Conc: 238



Manual Integration Results

RT: 15.14
Response: 38482
Amount: 1
Conc: 245



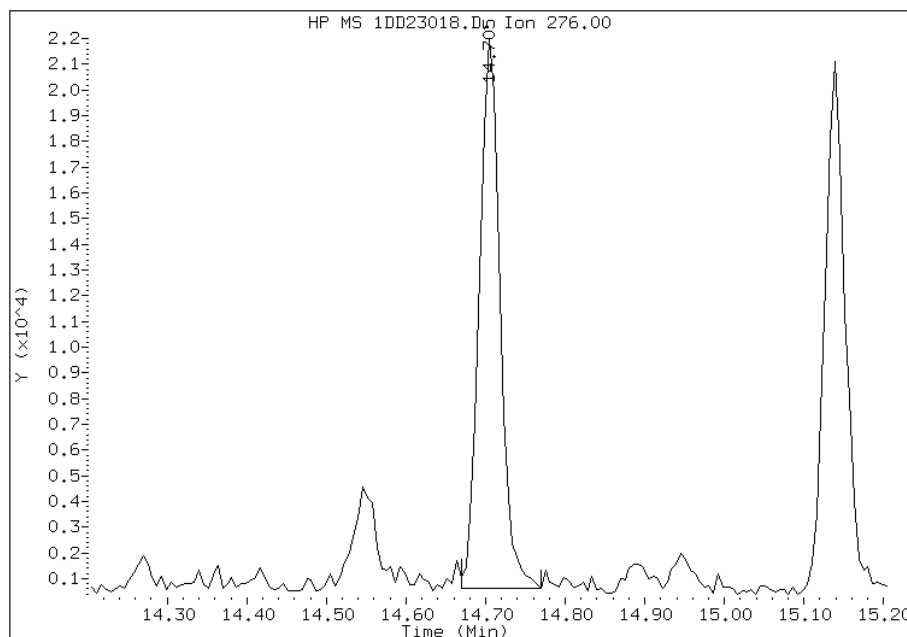
Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD23018.D
Inj. Date and Time: 23-APR-2013 19:22
Instrument ID: BSMSD.i
Client ID: CV1282C-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

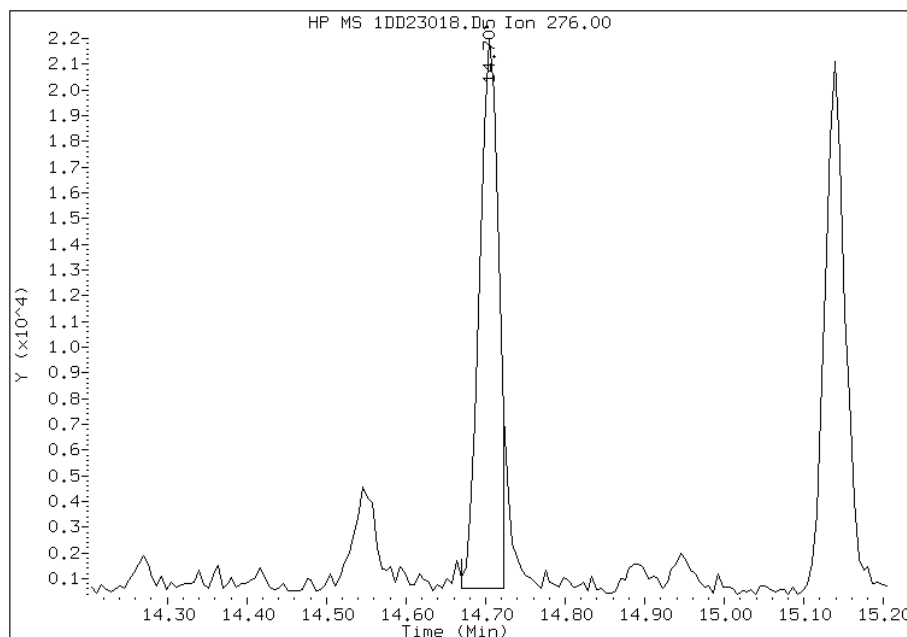
Processing Integration Results

RT: 14.70
Response: 38700
Amount: 1
Conc: 237



Manual Integration Results

RT: 14.70
Response: 35731
Amount: 1
Conc: 219



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1282D-CS-SP</u>	Lab Sample ID: <u>680-89459-17</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23019.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 10:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.04(g)</u>	Date Analyzed: <u>04/23/2013 19:45</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>21.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	J	510	100
208-96-8	Acenaphthylene	72	J	200	25
120-12-7	Anthracene	250		42	21
56-55-3	Benzo[a]anthracene	760		40	20
50-32-8	Benzo[a]pyrene	710		53	26
205-99-2	Benzo[b]fluoranthene	1300		62	31
191-24-2	Benzo[g,h,i]perylene	440		100	22
207-08-9	Benzo[k]fluoranthene	420		40	18
218-01-9	Chrysene	920		45	23
53-70-3	Dibenz(a,h)anthracene	160		100	21
206-44-0	Fluoranthene	1300		100	20
86-73-7	Fluorene	76	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	410		100	36
90-12-0	1-Methylnaphthalene	130	J	200	22
91-57-6	2-Methylnaphthalene	160	J	200	36
91-20-3	Naphthalene	220		200	22
85-01-8	Phenanthrene	880		40	20
129-00-0	Pyrene	940		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23019.D
 Lab Smp Id: 680-89459-A-17-A Client Smp ID: CV1282D-CS-SP
 Inj Date : 23-APR-2013 19:45
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-17-A
 Misc Info : 680-89459-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 18
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	21.032	% 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		6.054	6.051	(1.000)		1727738	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		987220	40.0000	
* 9 Phenanthrene-d10	188		8.998	8.995	(1.000)		1633348	40.0000	
\$ 13 o-Terphenyl	230		9.303	9.306	(1.034)		33772	1.37227	460
* 17 Chrysene-d12	240		11.307	11.304	(1.000)		1851269	40.0000	
* 22 Perylene-d12	264		13.140	13.120	(1.000)		2062669	40.0000	
2 Naphthalene	128		6.072	6.075	(1.003)		27943	0.65069	220
3 2-Methylnaphthalene	142		6.783	6.780	(1.120)		13381	0.48269	160
4 1-Methylnaphthalene	142		6.871	6.874	(1.135)		10443	0.39891	130
5 Acenaphthylene	152		7.605	7.608	(0.983)		8993	0.21523	72
7 Acenaphthene	154		7.758	7.761	(1.003)		10398	0.40316	140
8 Fluorene	166		8.205	8.208	(1.061)		6856	0.22448	76
10 Phenanthrene	178		9.015	9.013	(1.002)		117161	2.60415	880
11 Anthracene	178		9.057	9.054	(1.007)		33029	0.73967	250

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.198	9.195	(1.022)	18896	0.47975	160
14 Fluoranthene	202	9.997	10.000	(1.111)	185086	3.99780	1300
15 Pyrene	202	10.185	10.188	(0.901)	155272	2.79299	940
16 Benzo(a)anthracene	228	11.295	11.287	(0.999)	120131	2.24444	760
18 Chrysene	228	11.330	11.328	(1.002)	137302	2.73584	920
19 Benzo(b)fluoranthene	252	12.588	12.585	(0.958)	194010	3.76529	1300
20 Benzo(k)fluoranthene	252	12.623	12.620	(0.961)	68375	1.25961	420
21 Benzo(a)pyrene	252	13.034	13.032	(0.992)	108615	2.09797	710
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.706	(1.119)	66907	1.21200	410(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.735	(1.121)	25005	0.48101	160
25 Benzo(g,h,i)perylene	276	15.144	15.141	(1.152)	69073	1.29950	440

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23019.D

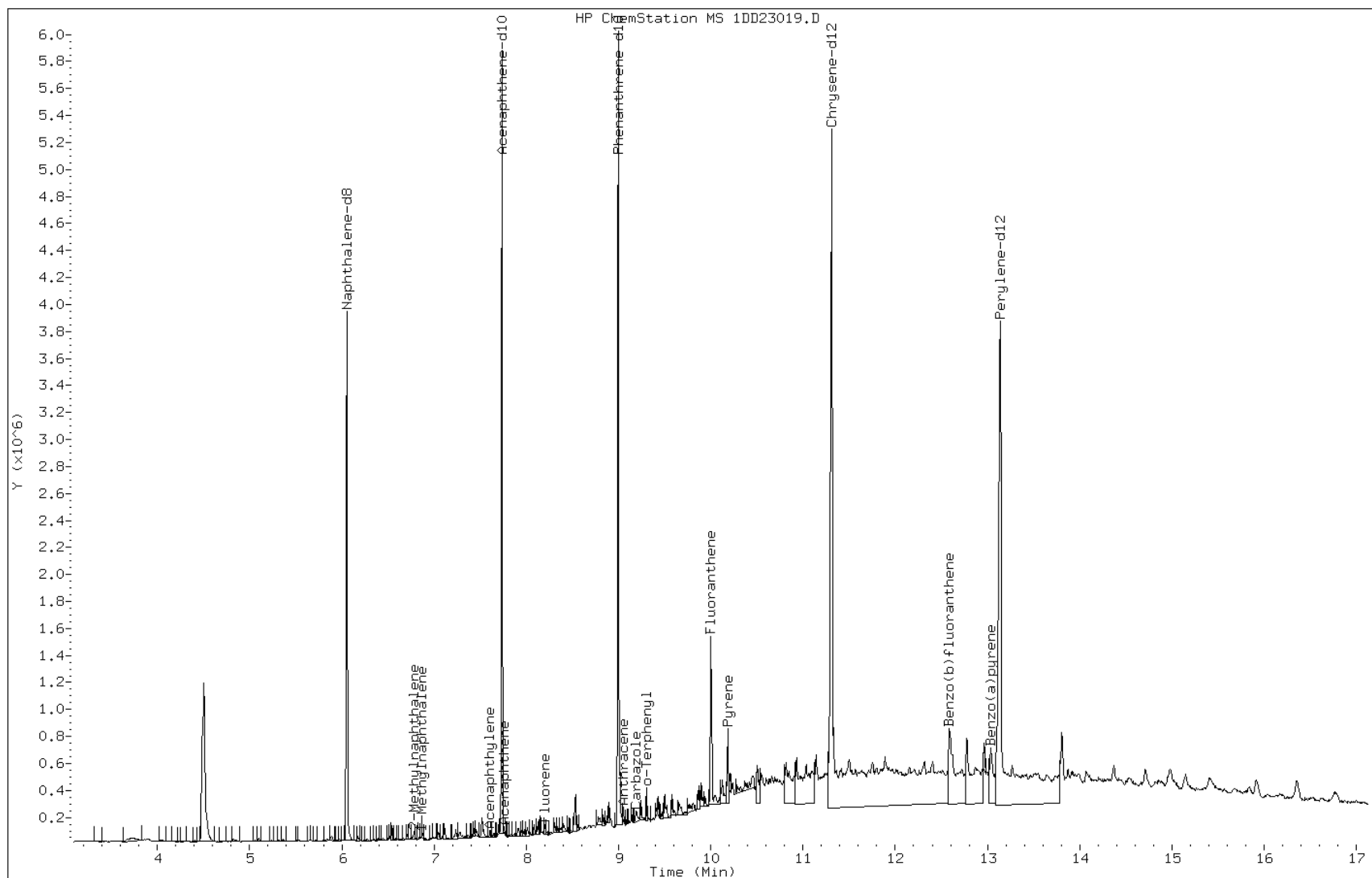
Date: 23-APR-2013 19:45

Client ID: CV1282D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-17-A

Operator: SCC



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

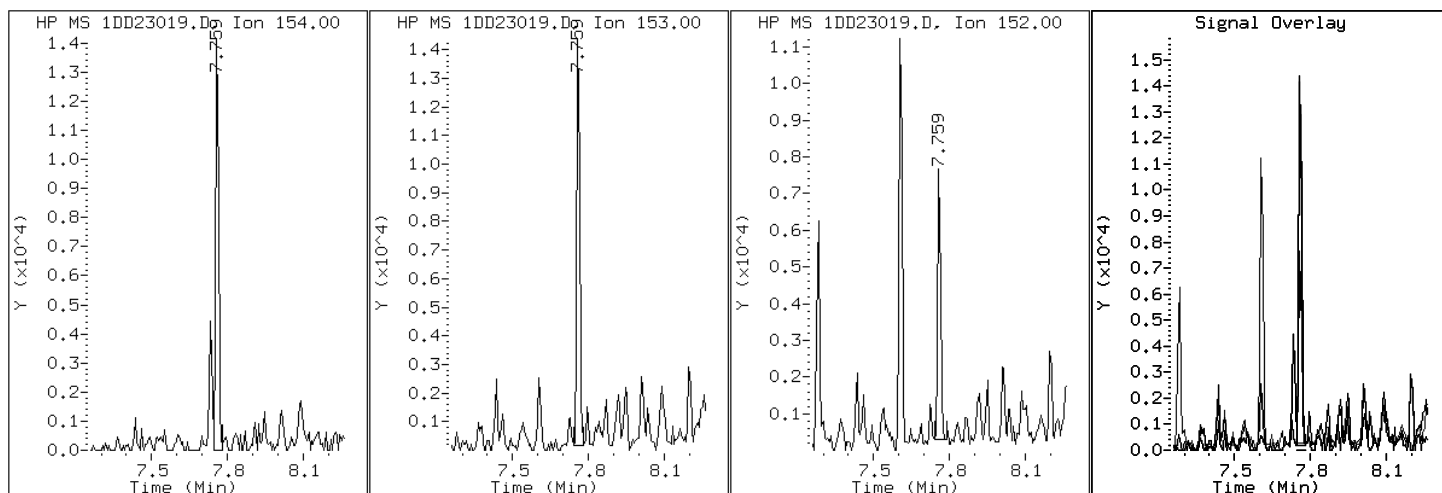
Client ID: CV1282D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-17-A

Operator: SCC

7 Acenaphthene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

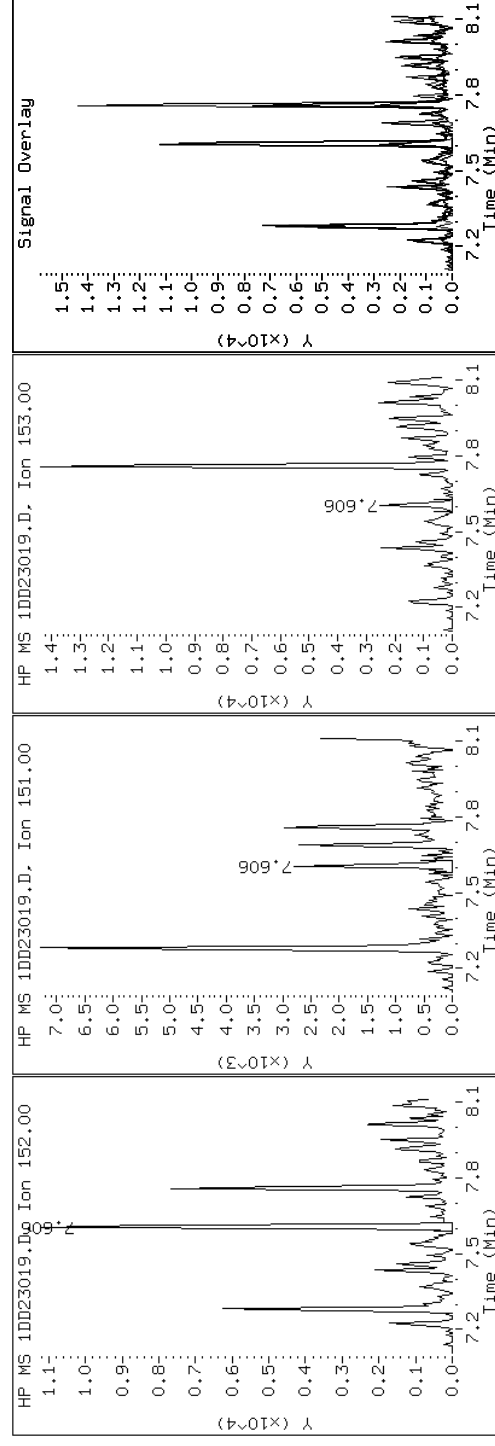
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

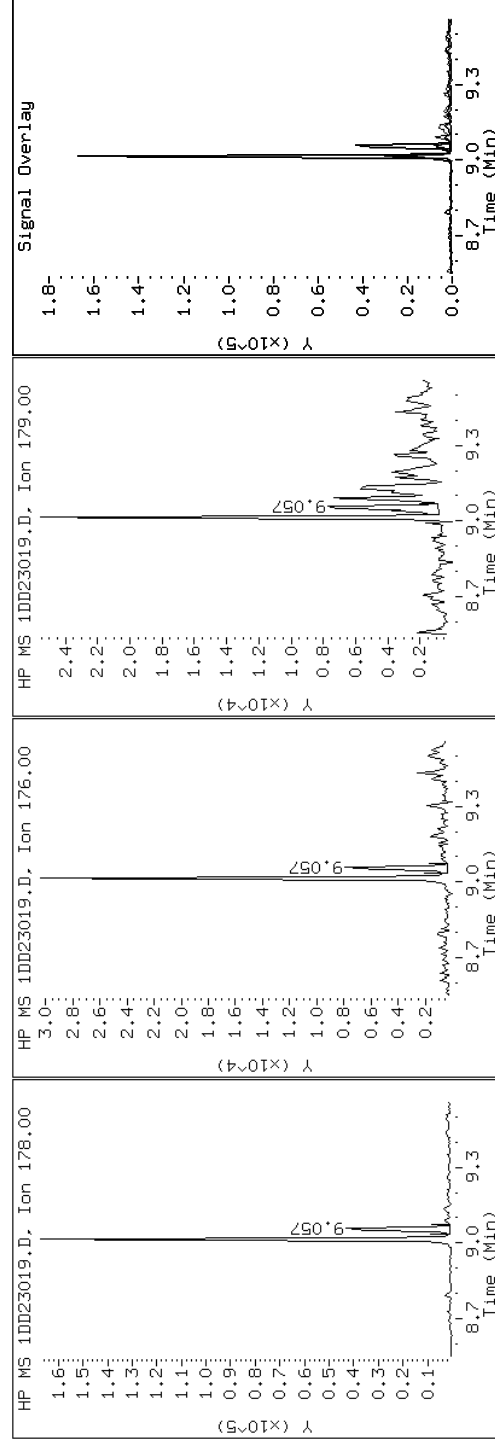
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

11 Anthracene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

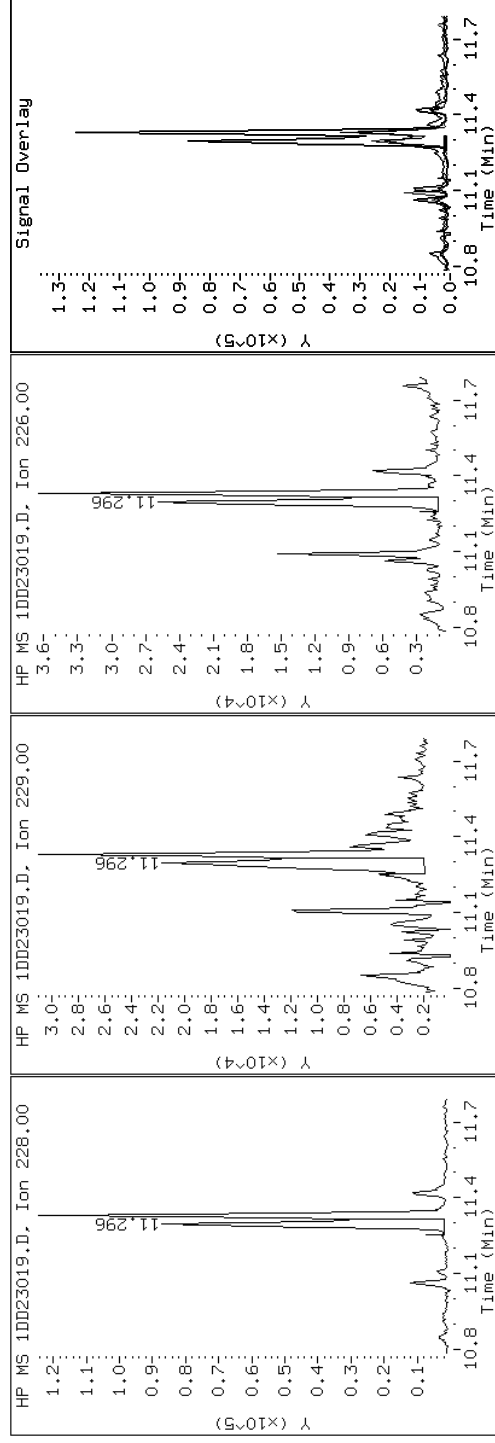
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMSD.i

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

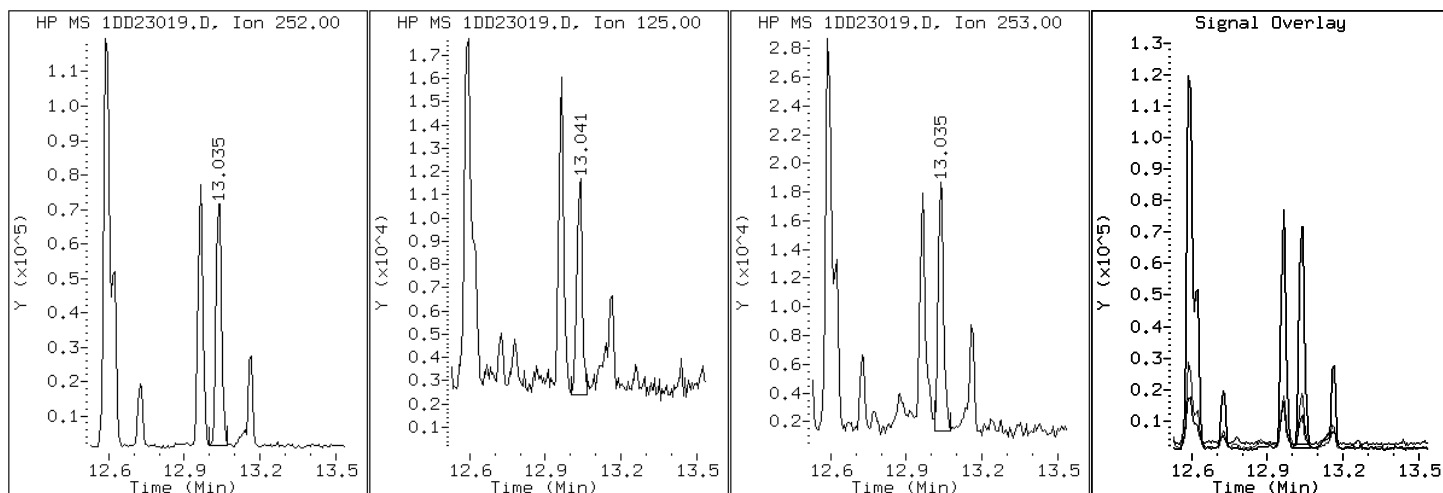
Client ID: CV1282D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-17-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

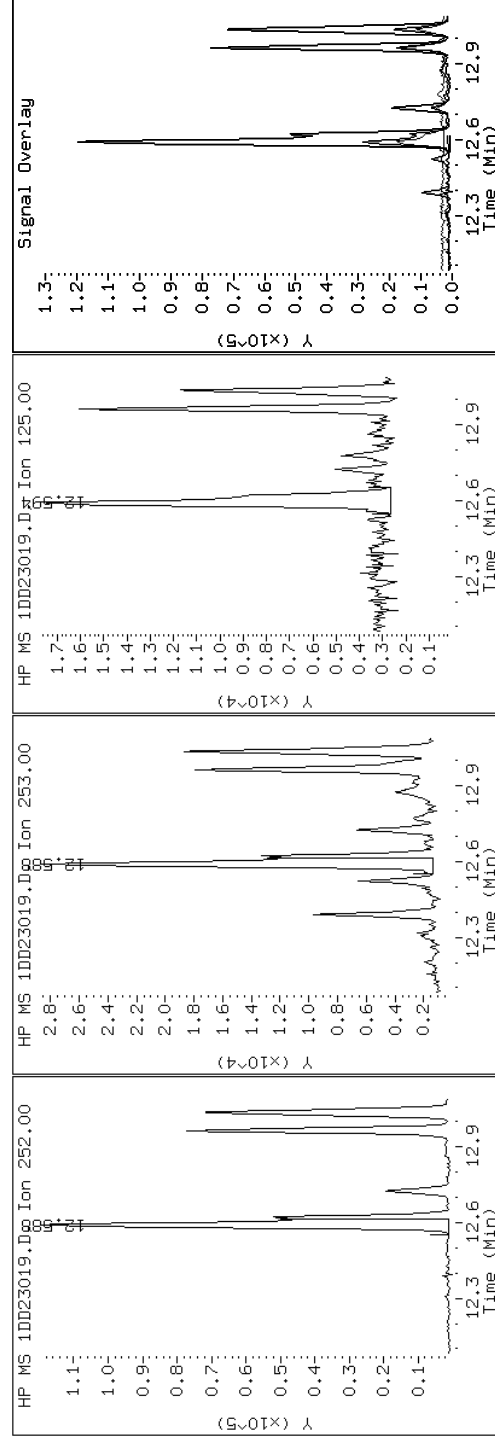
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

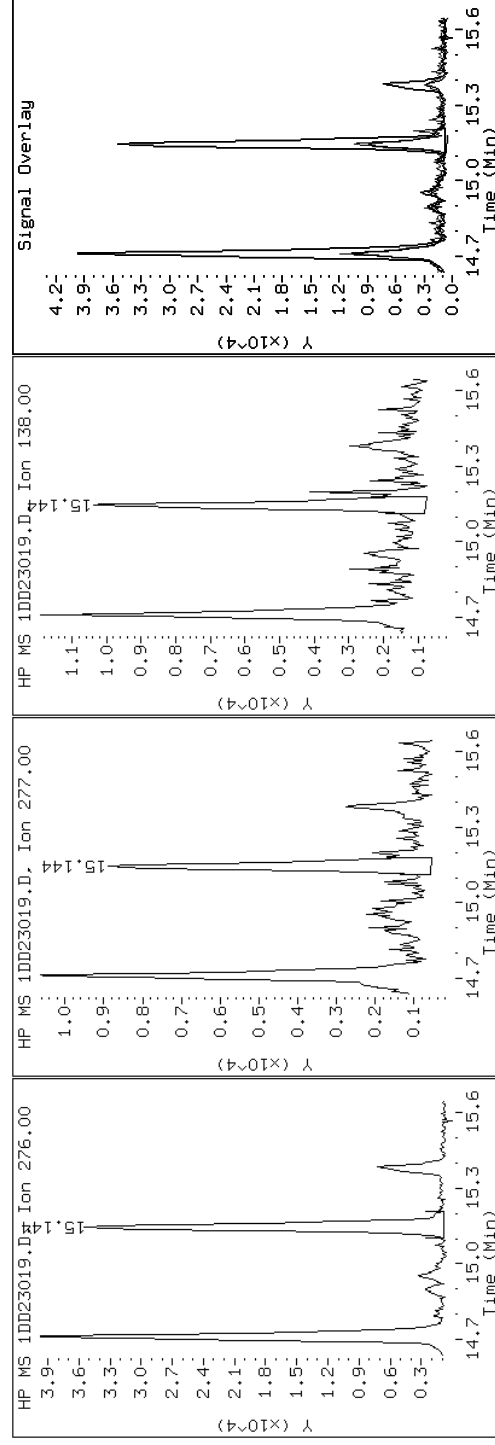
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMSD.i

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

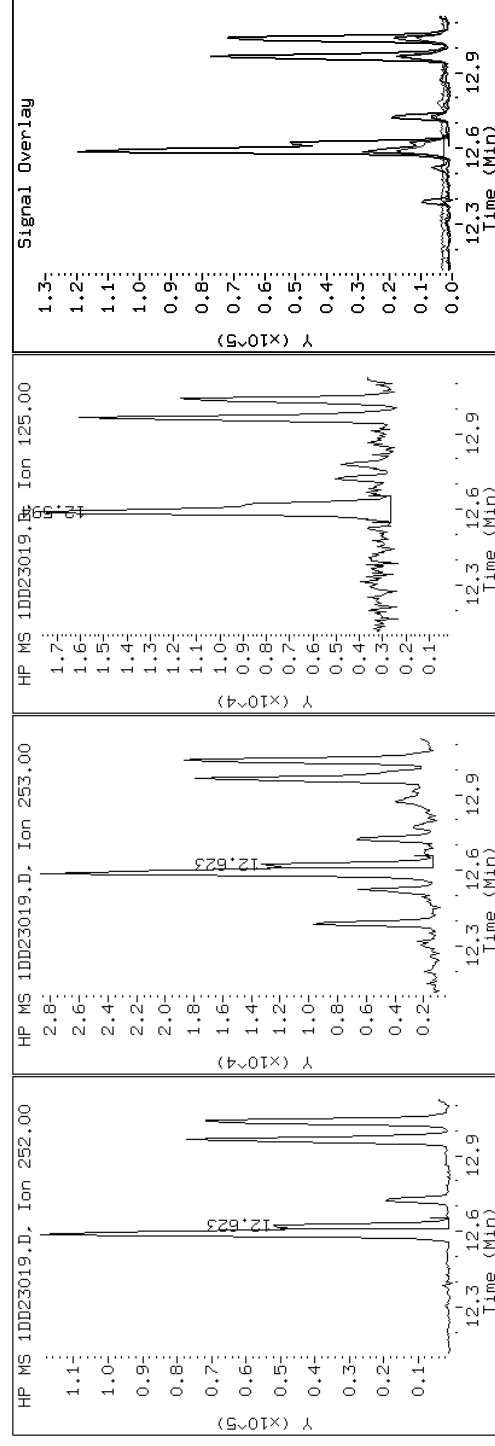
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

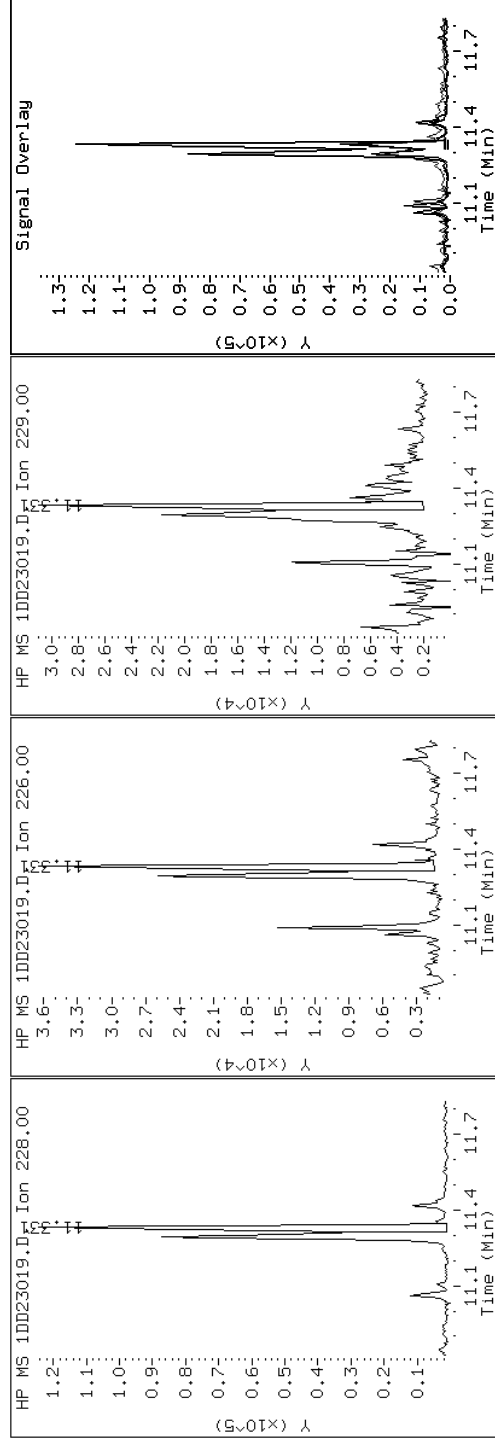
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

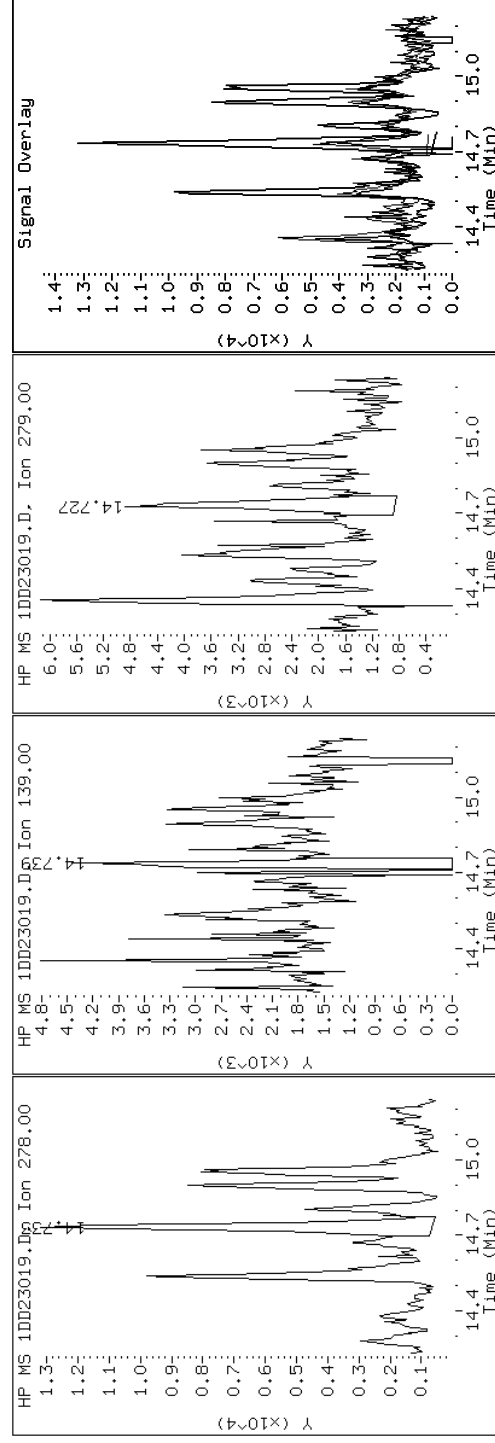
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

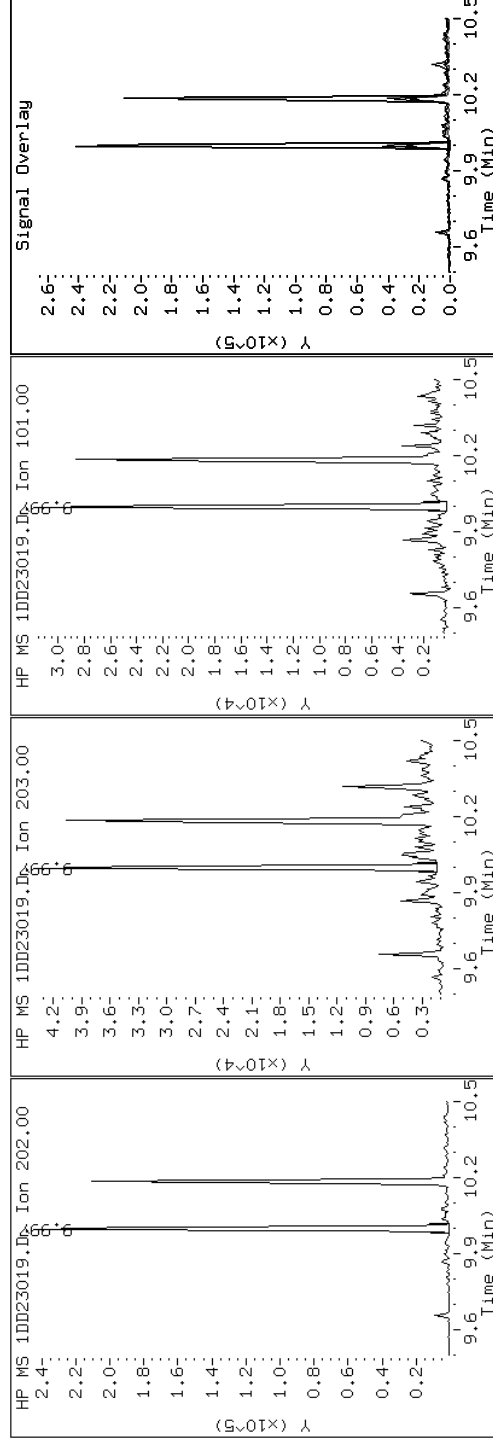
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

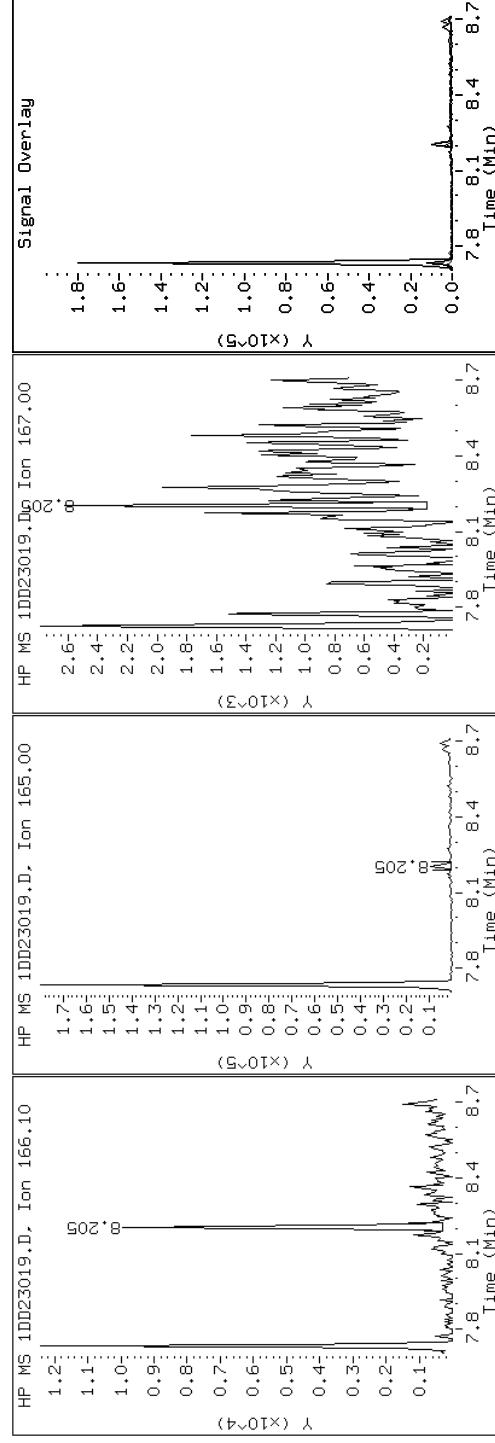
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

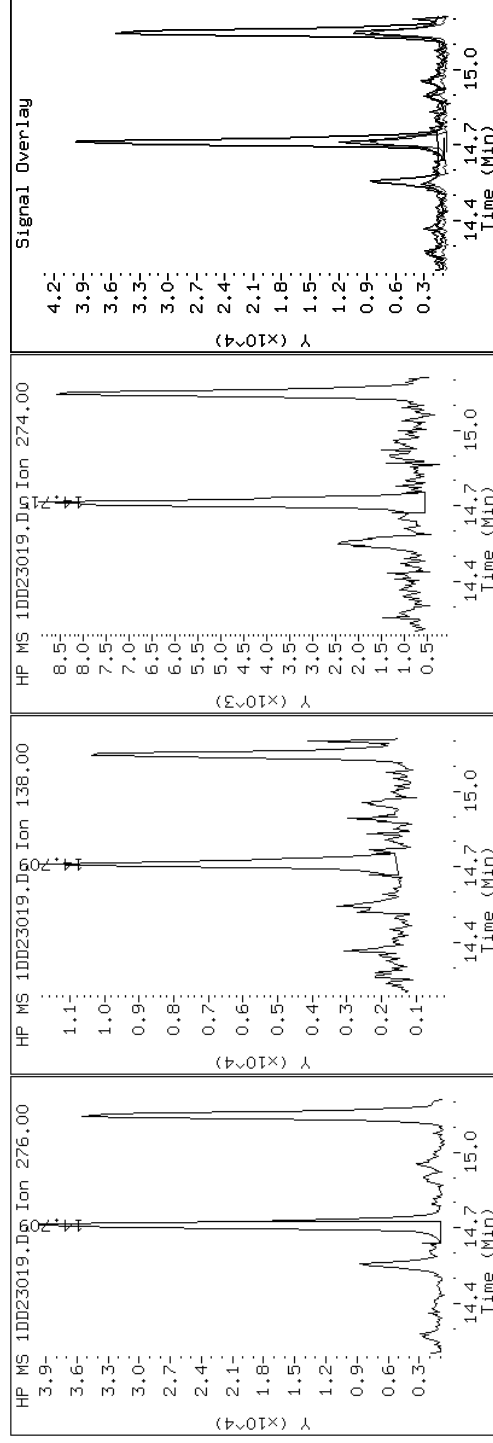
Client ID: CV1282D-CS-SP

Instrument: BSMDS.i

Sample Info: 680-89459-A-17-A

Operator: SCC

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



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

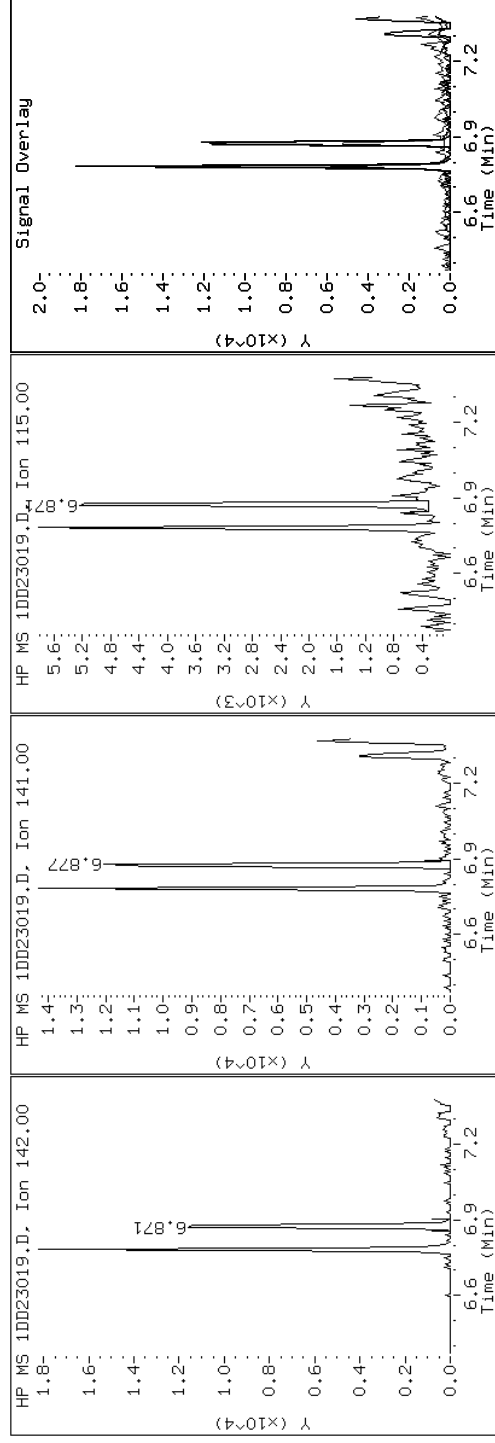
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

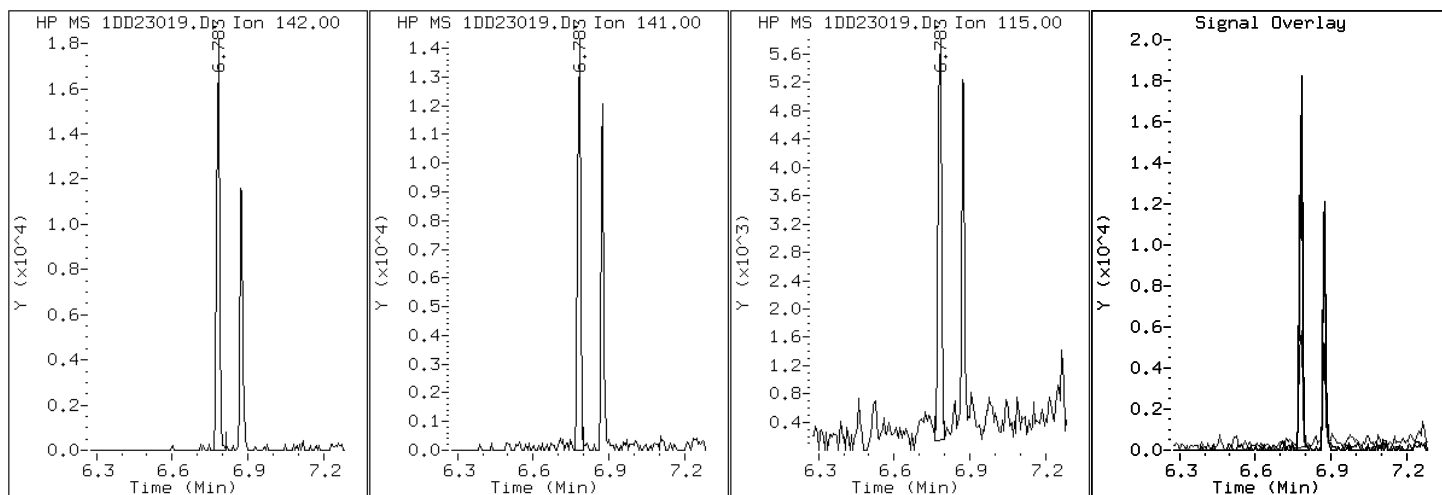
Client ID: CV1282D-CS-SP

Instrument: BSMSD.i

Sample Info: 680-89459-A-17-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

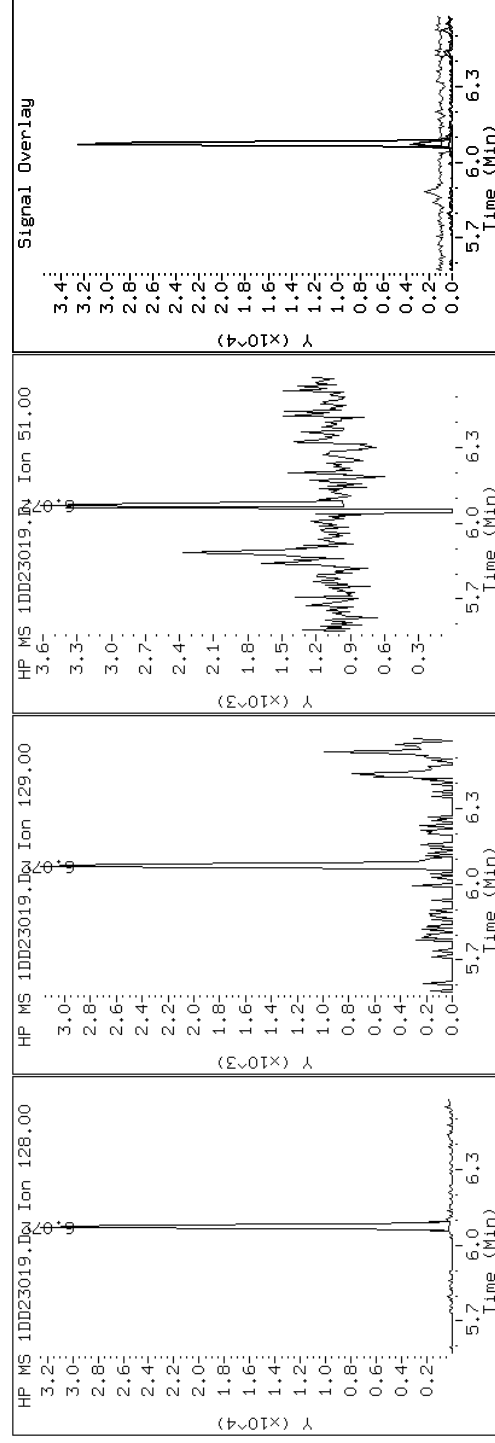
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

2 Naphthalene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

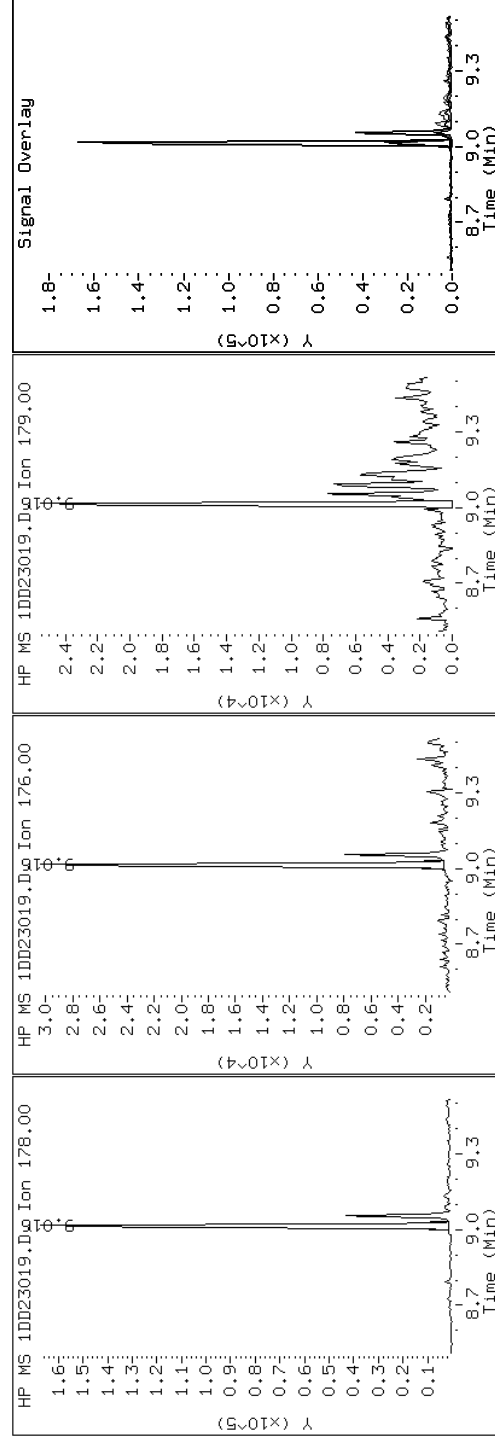
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

10 Phenanthrene



Data File: 1DD23019.D

Date: 23-APR-2013 19:45

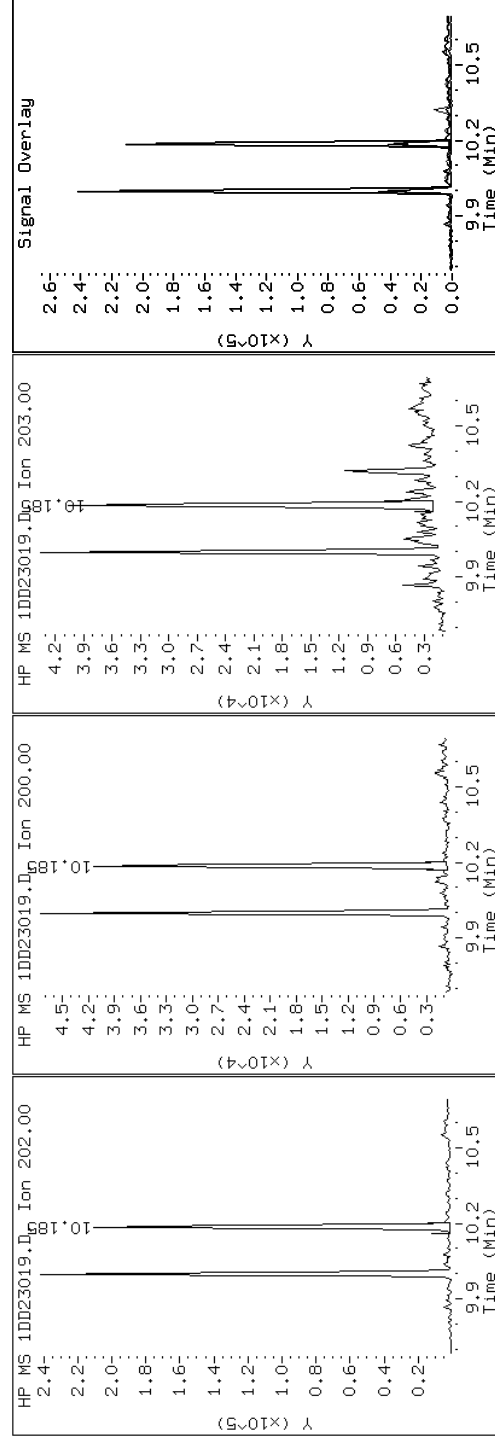
Client ID: CV1282D-CS-SP

Sample Info: 680-89459-A-17-A

Instrument: BSMDS.i

Operator: SCC

15 Pyrene

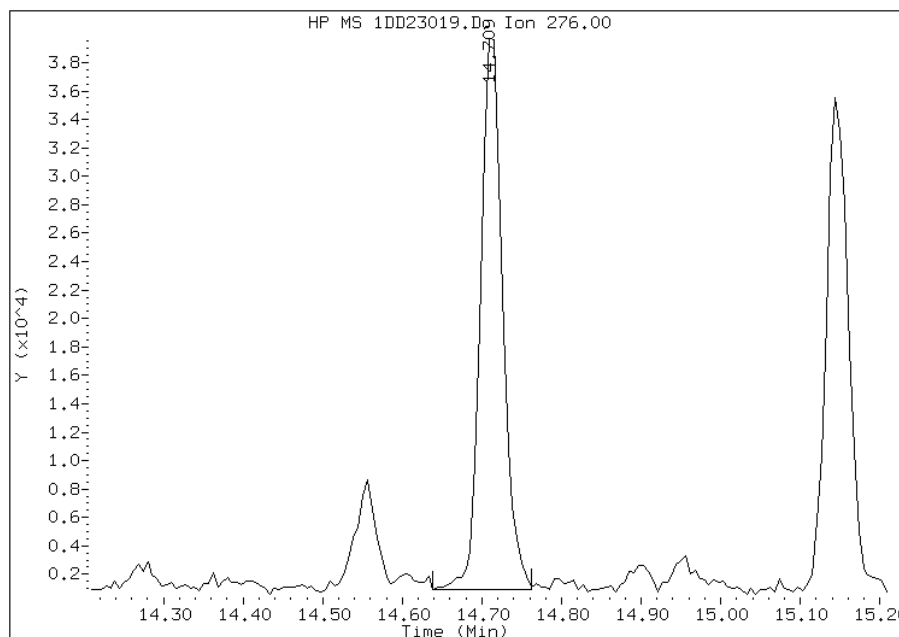


Manual Integration Report

Data File: 1DD23019.D
Inj. Date and Time: 23-APR-2013 19:45
Instrument ID: BSMSD.i
Client ID: CV1282D-CS-SP
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

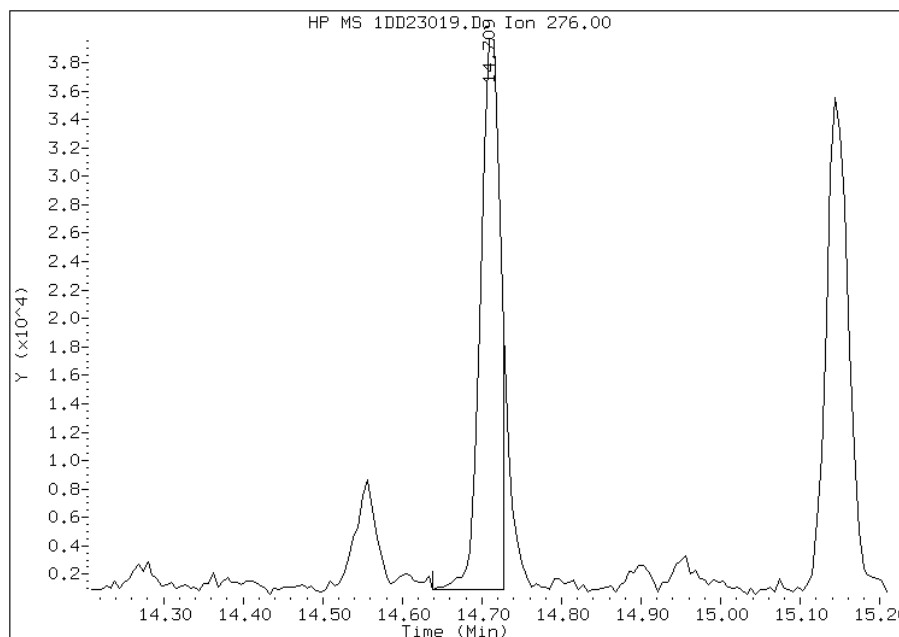
Processing Integration Results

RT: 14.71
Response: 74838
Amount: 1
Conc: 457



Manual Integration Results

RT: 14.71
Response: 66907
Amount: 1
Conc: 408



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1217A-CS</u>	Lab Sample ID: <u>680-89459-18</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23020.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:15</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.91(g)</u>	Date Analyzed: <u>04/23/2013 20:07</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>21.0</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	46	J	200	25
120-12-7	Anthracene	97		43	21
56-55-3	Benzo[a]anthracene	700		41	20
50-32-8	Benzo[a]pyrene	970		53	26
205-99-2	Benzo[b]fluoranthene	1600		62	31
191-24-2	Benzo[g,h,i]perylene	650		100	22
207-08-9	Benzo[k]fluoranthene	530		41	18
218-01-9	Chrysene	870		46	23
53-70-3	Dibenz(a,h)anthracene	220		100	21
206-44-0	Fluoranthene	760		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	620		100	36
90-12-0	1-Methylnaphthalene	92	J	200	22
91-57-6	2-Methylnaphthalene	100	J	200	36
91-20-3	Naphthalene	87	J	200	22
85-01-8	Phenanthrene	290		41	20
129-00-0	Pyrene	590		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23020.D
 Lab Smp Id: 680-89459-A-18-A Client Smp ID: CV1217A-CS
 Inj Date : 23-APR-2013 20:07
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-18-A
 Misc Info : 680-89459-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 19
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	20.952	% 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		6.056	6.051	(1.000)		1743374	40.0000	
* 6 Acenaphthene-d10	164		7.737	7.732	(1.000)		999221	40.0000	
* 9 Phenanthrene-d10	188		8.994	8.995	(1.000)		1661055	40.0000	
\$ 13 o-Terphenyl	230		9.305	9.306	(1.035)		30939	1.23619	420
* 17 Chrysene-d12	240		11.309	11.304	(1.000)		1890922	40.0000	
* 22 Perylene-d12	264		13.130	13.120	(1.000)		2088747	40.0000	
2 Naphthalene	128		6.074	6.075	(1.003)		11123	0.25669	87
3 2-Methylnaphthalene	142		6.785	6.780	(1.120)		8429	0.30133	100
4 1-Methylnaphthalene	142		6.873	6.874	(1.135)		7156	0.27090	92
5 Acenaphthylene	152		7.607	7.608	(0.983)		5783	0.13674	46
8 Fluorene	166		8.207	8.208	(1.061)		1379	0.04461	15(Q)
10 Phenanthrene	178		9.012	9.013	(1.002)		39181	0.85635	290
11 Anthracene	178		9.053	9.054	(1.007)		12986	0.28596	97
12 Carbazole	167		9.194	9.195	(1.022)		4788	0.11953	40

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	9.999	10.000	(1.112)	106043	2.25229	760
15 Pyrene	202	10.187	10.188	(0.901)	98693	1.73803	590
16 Benzo(a)anthracene	228	11.291	11.287	(0.998)	112921	2.06549	700
18 Chrysene	228	11.326	11.328	(1.002)	130771	2.55106	860
19 Benzo(b)fluoranthene	252	12.584	12.585	(0.958)	250074	4.79276	1600
20 Benzo(k)fluoranthene	252	12.613	12.620	(0.961)	85222	1.55036	530
21 Benzo(a)pyrene	252	13.030	13.032	(0.992)	149544	2.85247	970
23 Indeno(1,2,3-cd)pyrene	276	14.705	14.706	(1.120)	102117	1.82672	620(M)
24 Dibenzo(a,h)anthracene	278	14.728	14.735	(1.122)	34722	0.65959	220
25 Benzo(g,h,i)perylene	276	15.140	15.141	(1.153)	102439	1.90316	640

QC Flag Legend

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

Data File: 1DD23020.D

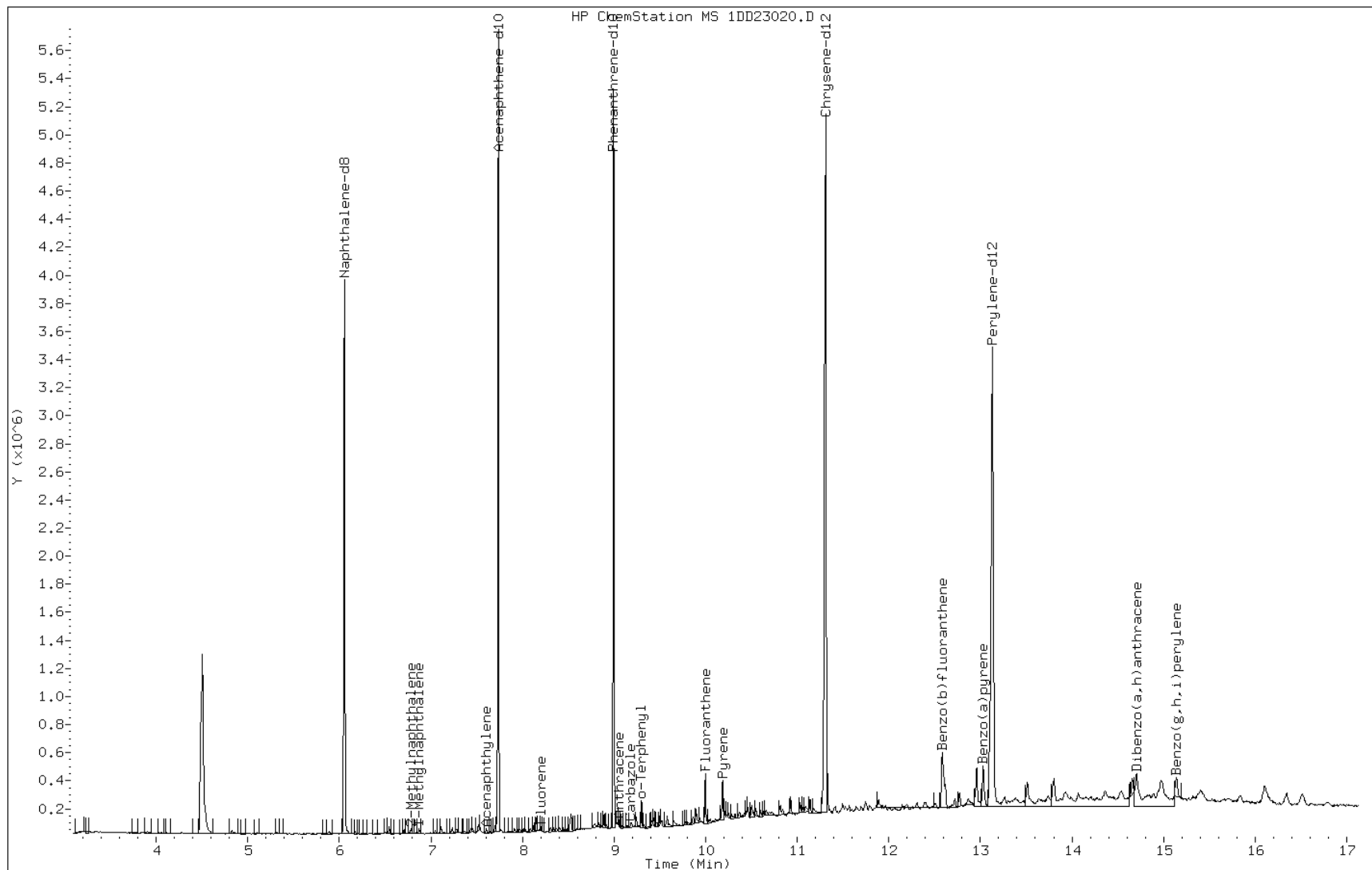
Date: 23-APR-2013 20:07

Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

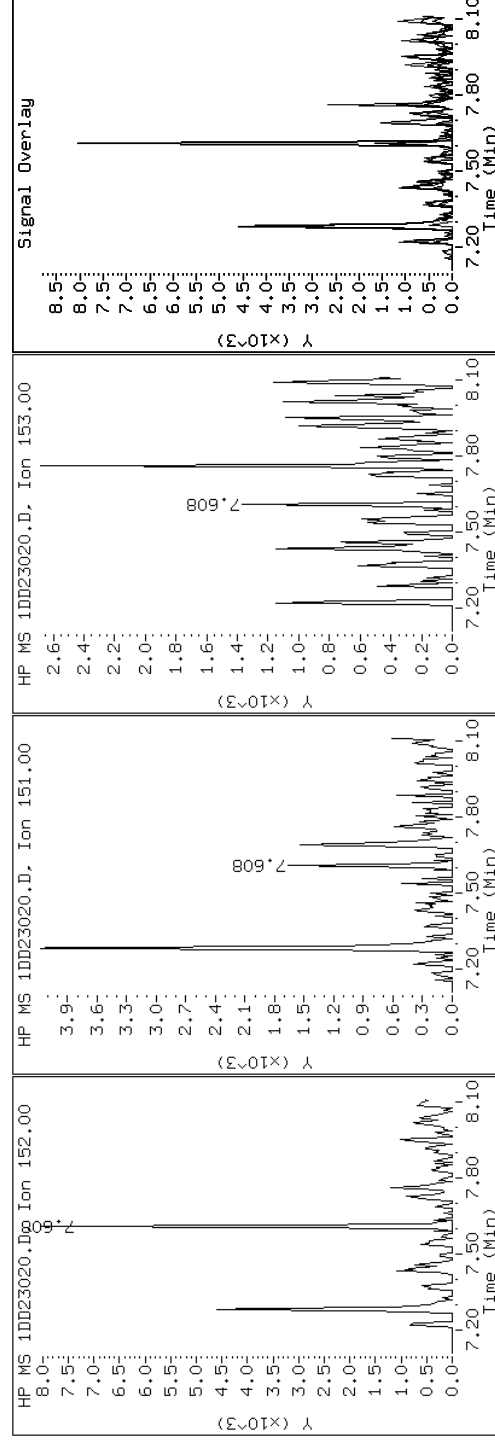
Client ID: CV1217A-CS

Sample Info: 680-89459-A-18-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

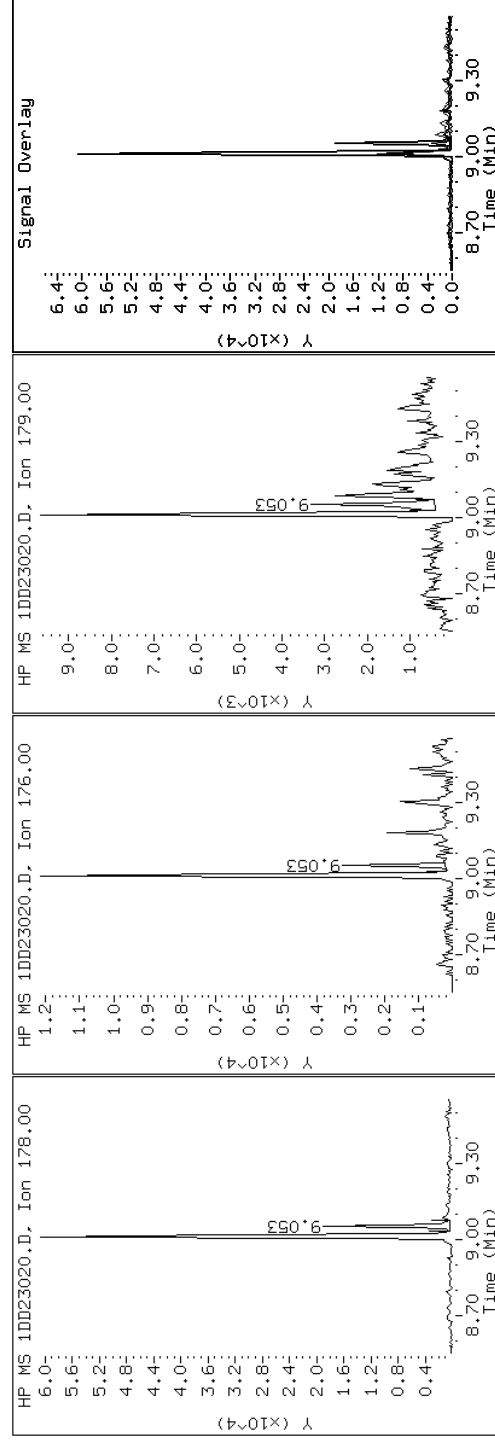
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

11 Anthracene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

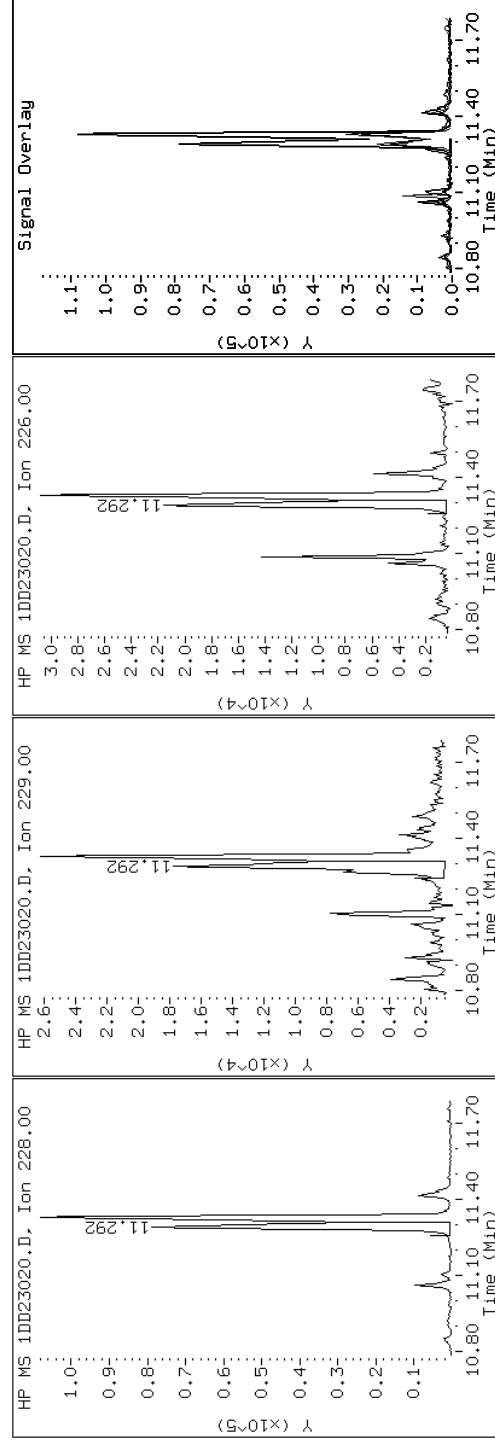
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

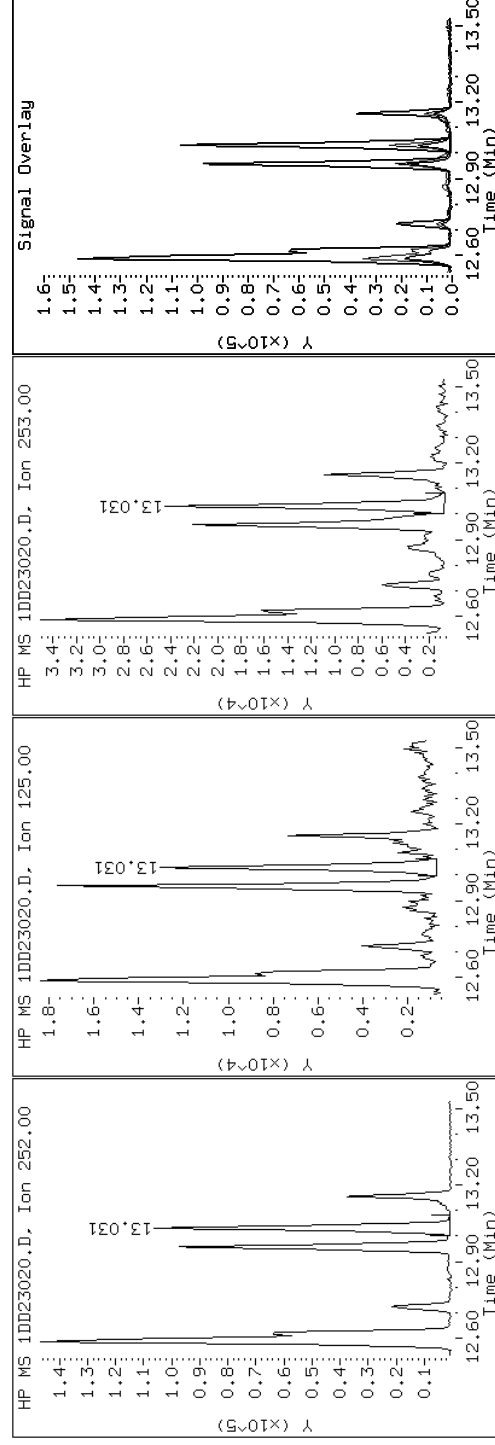
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

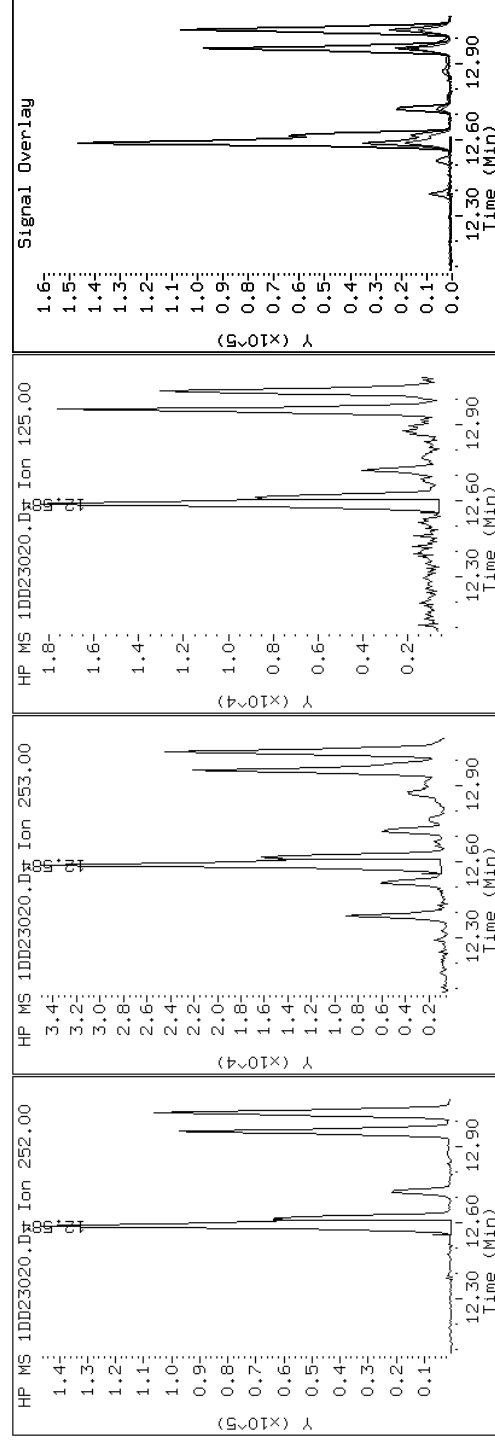
Client ID: CV1217A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-18-A

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

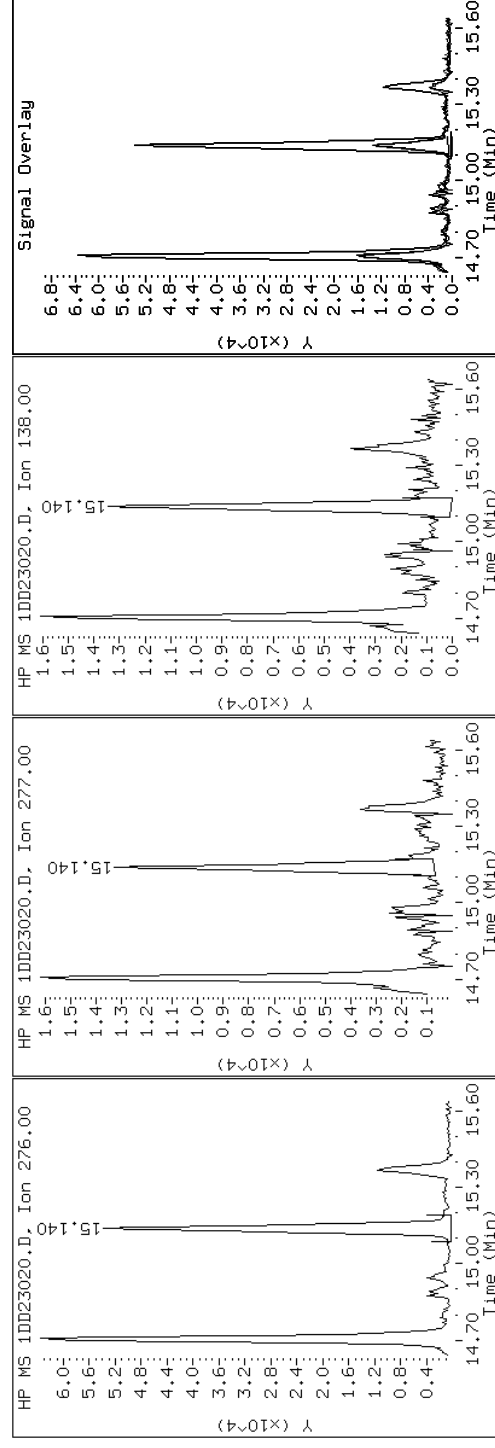
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

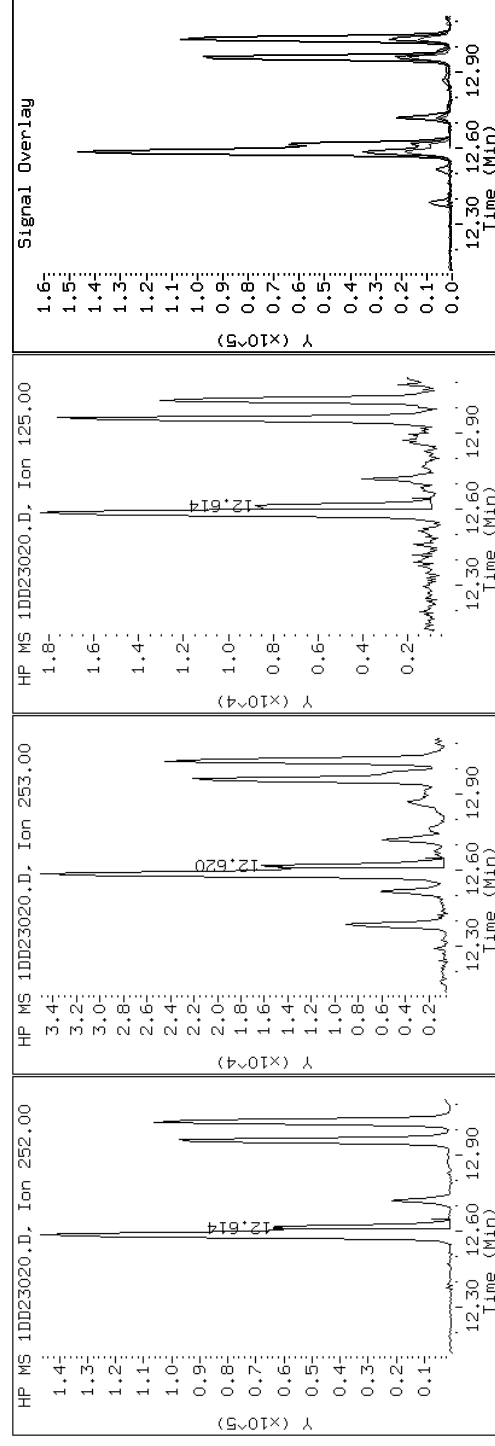
Client ID: CV1217A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-18-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

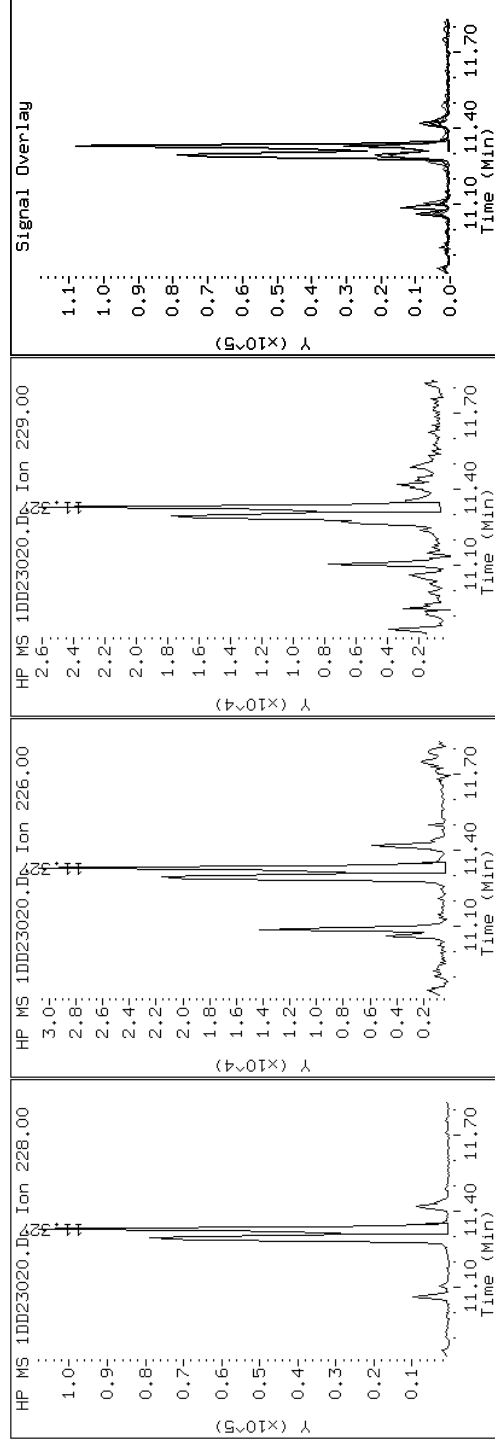
Client ID: CV1217A-CS

Sample Info: 680-89459-A-18-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

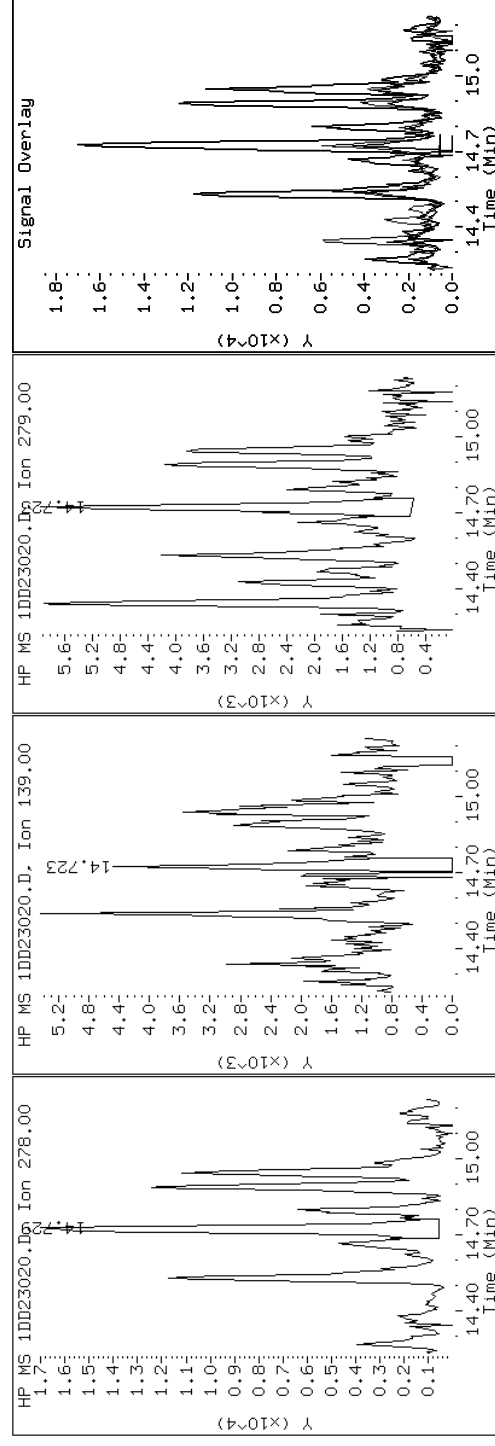
Client ID: CV1217A-CS

Sample Info: 680-89459-A-18-A

Instrument: BSMSD.i

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

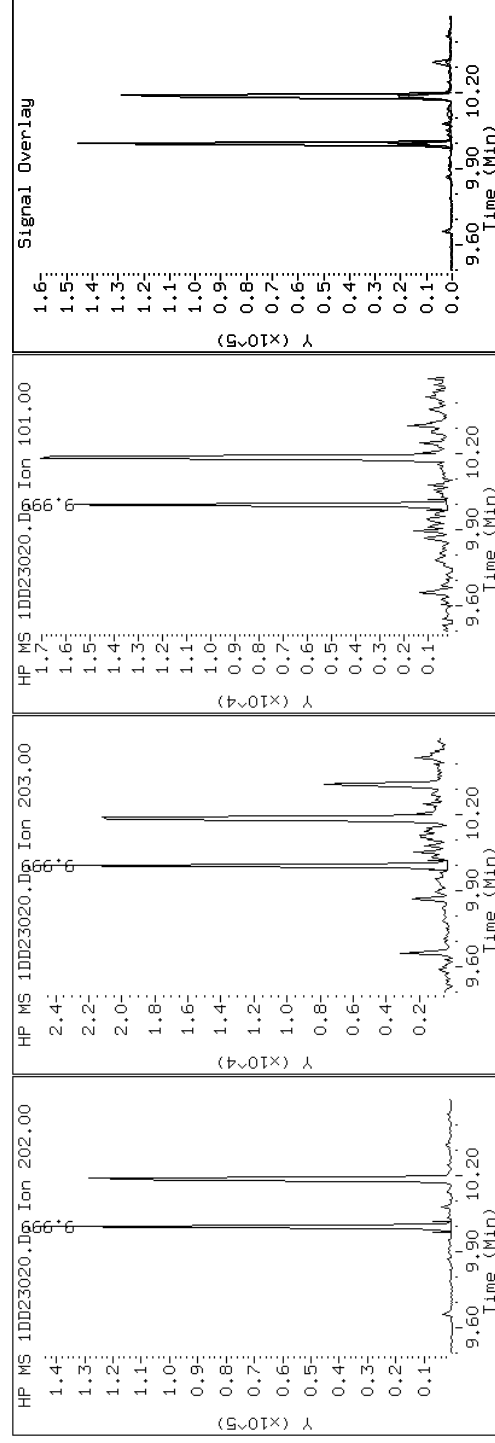
Client ID: CV1217A-CS

Sample Info: 680-89459-A-18-A

Instrument: BSMSD.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

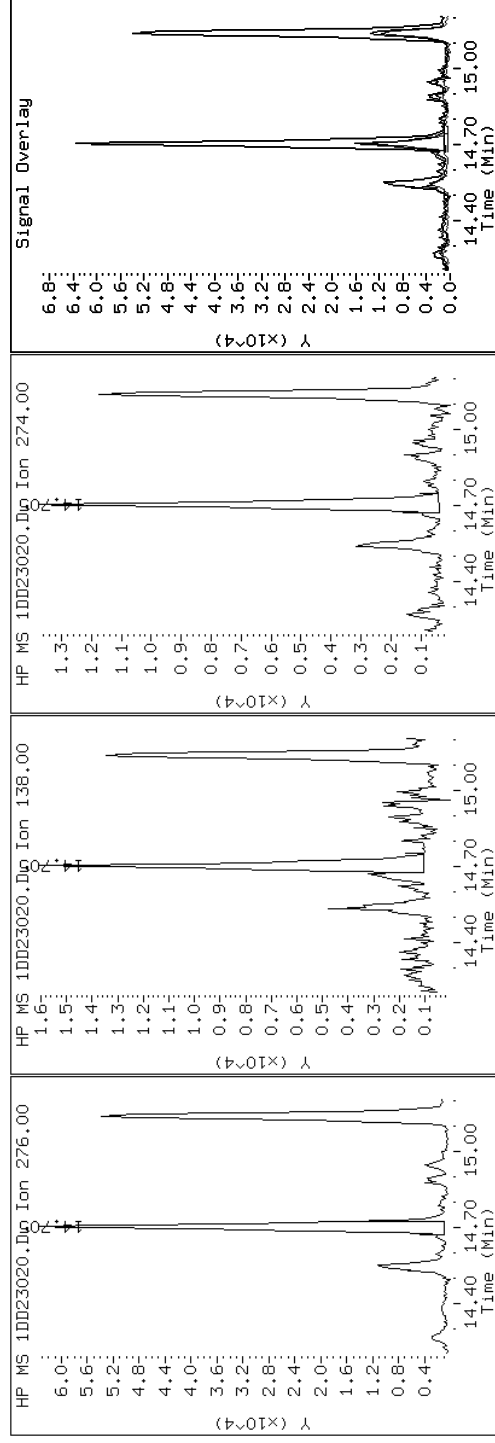
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

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



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

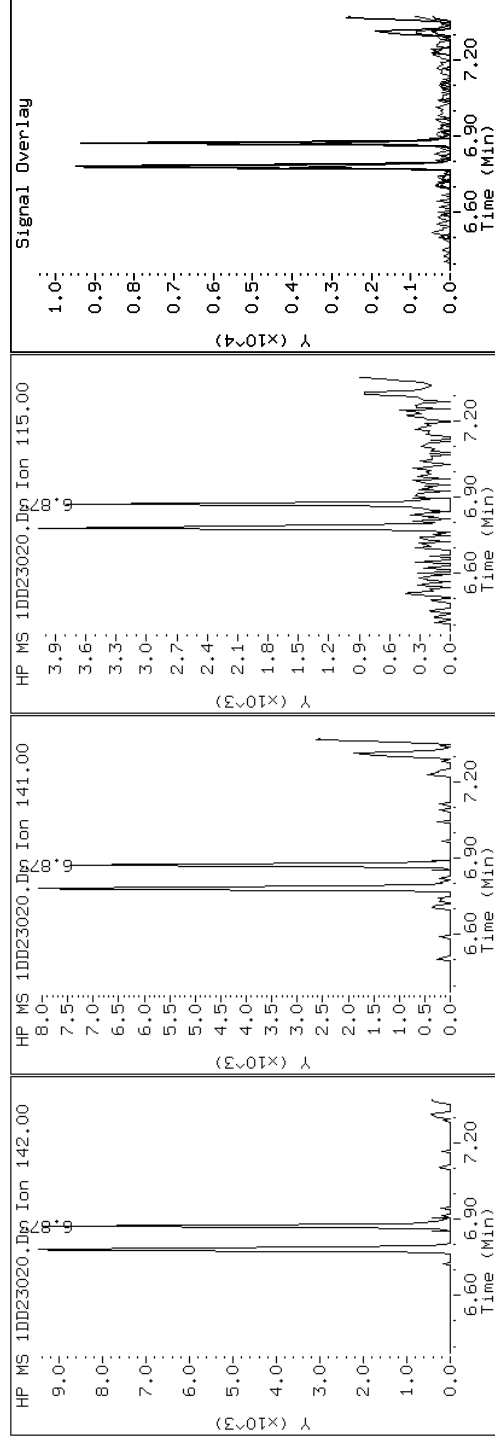
Client ID: CV1217A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-18-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

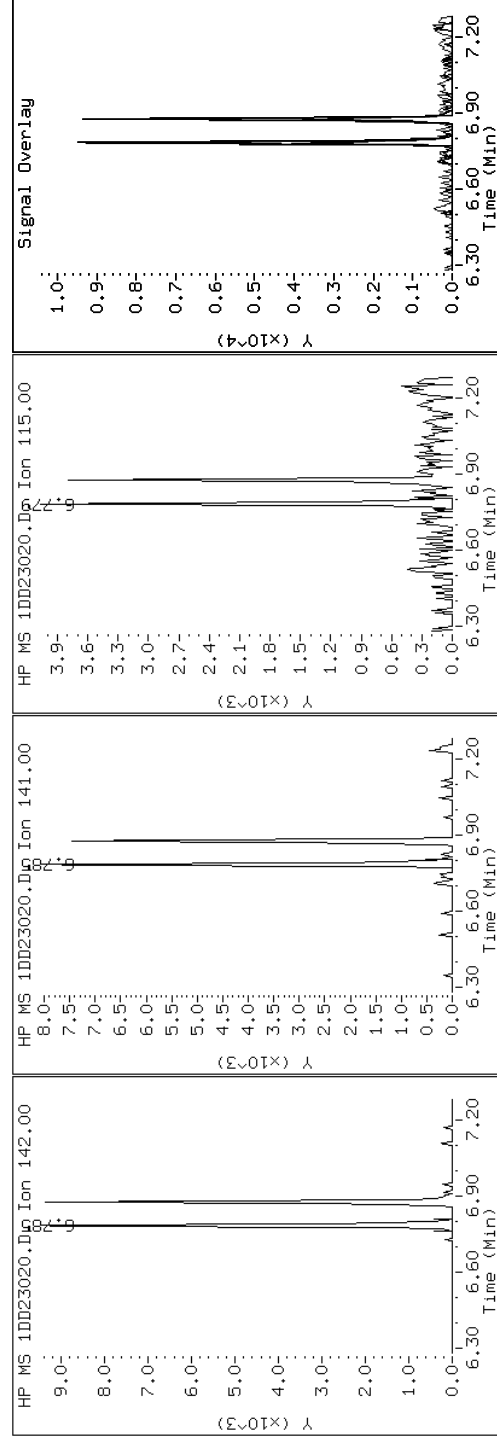
Client ID: CV1217A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-18-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

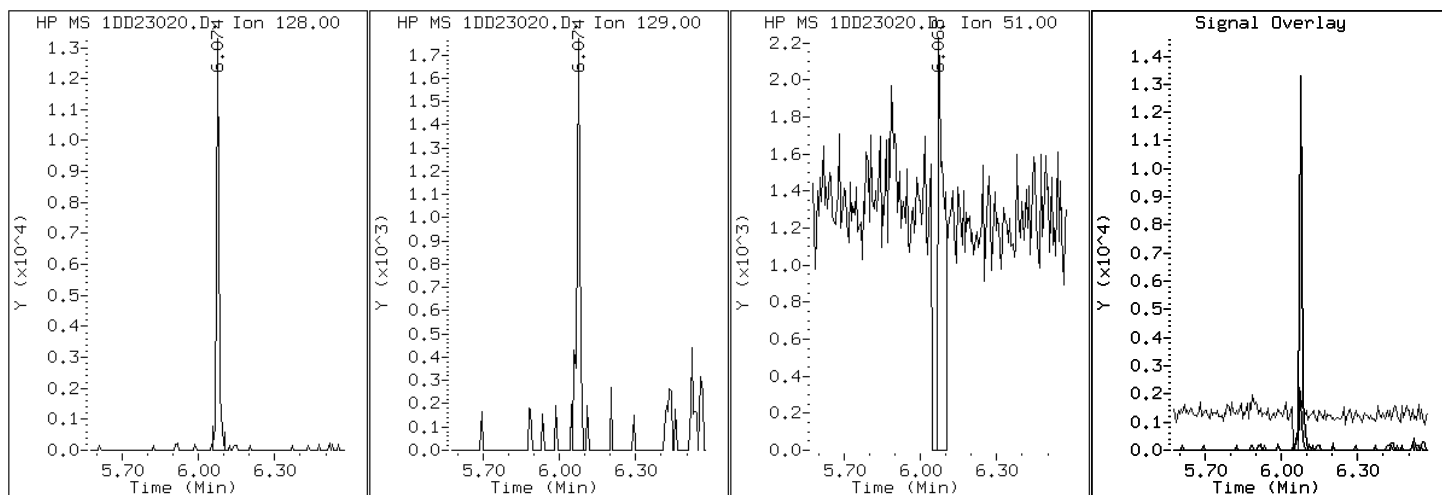
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

2 Naphthalene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

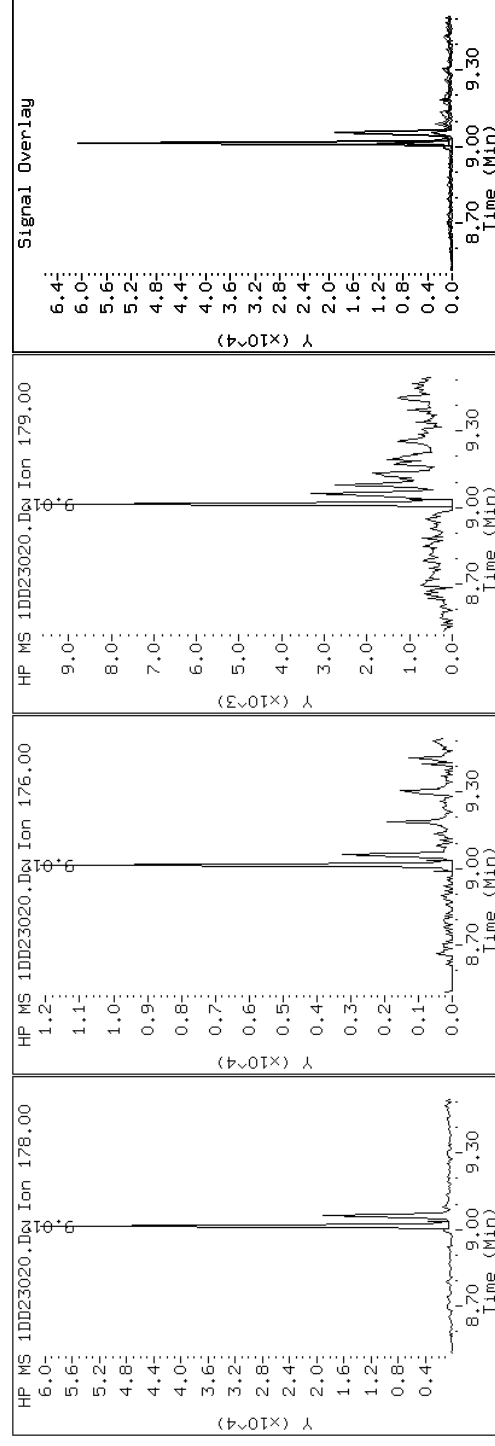
Client ID: CV1217A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-18-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23020.D

Date: 23-APR-2013 20:07

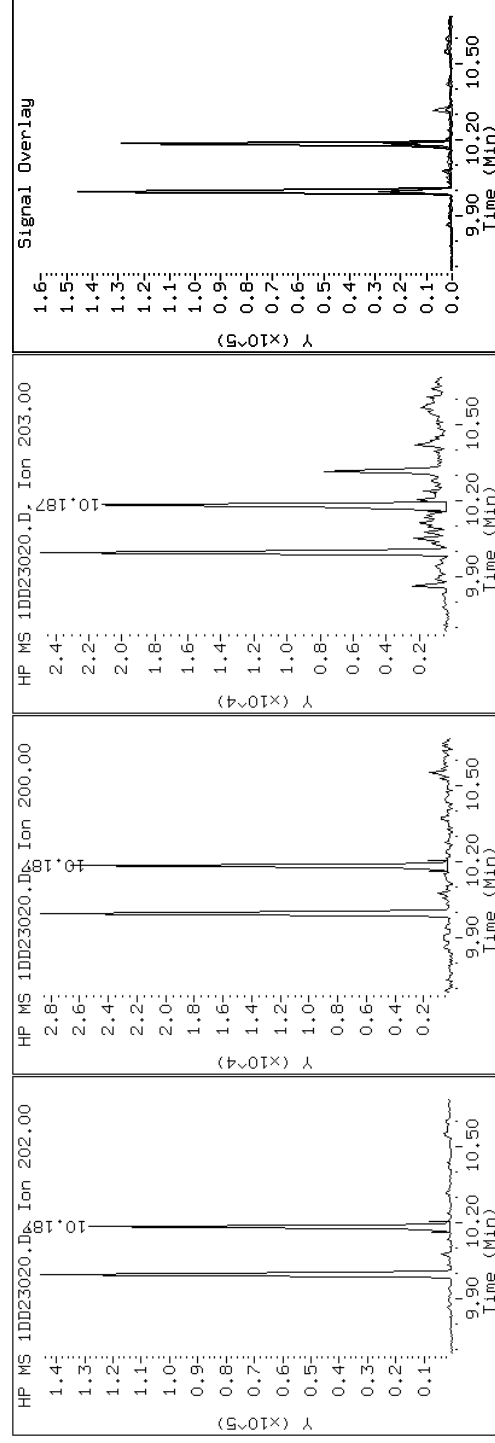
Client ID: CV1217A-CS

Sample Info: 680-89459-A-18-A

Instrument: BSMDS.i

Operator: SCC

15 Pyrene

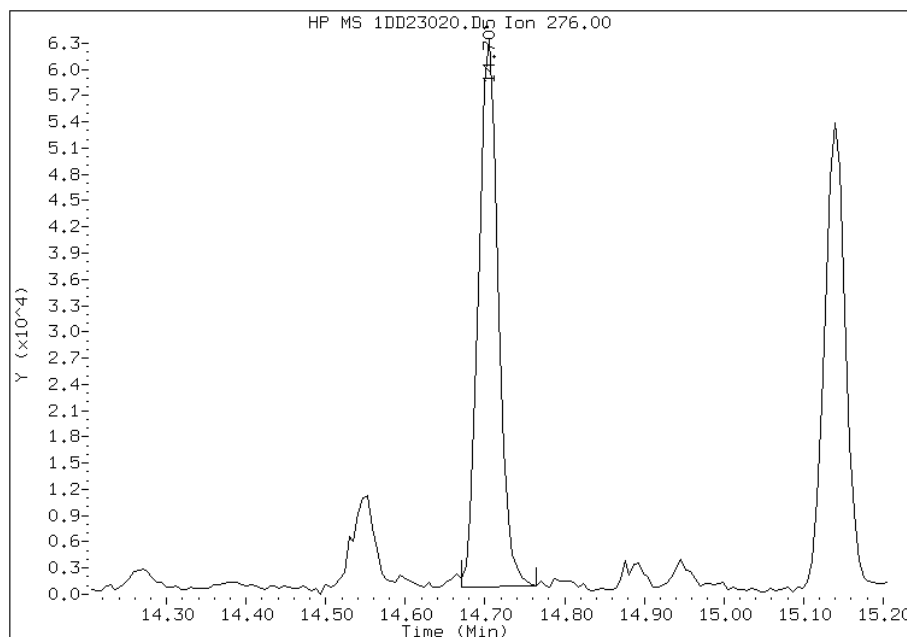


Manual Integration Report

Data File: 1DD23020.D
Inj. Date and Time: 23-APR-2013 20:07
Instrument ID: BSMSD.i
Client ID: CV1217A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

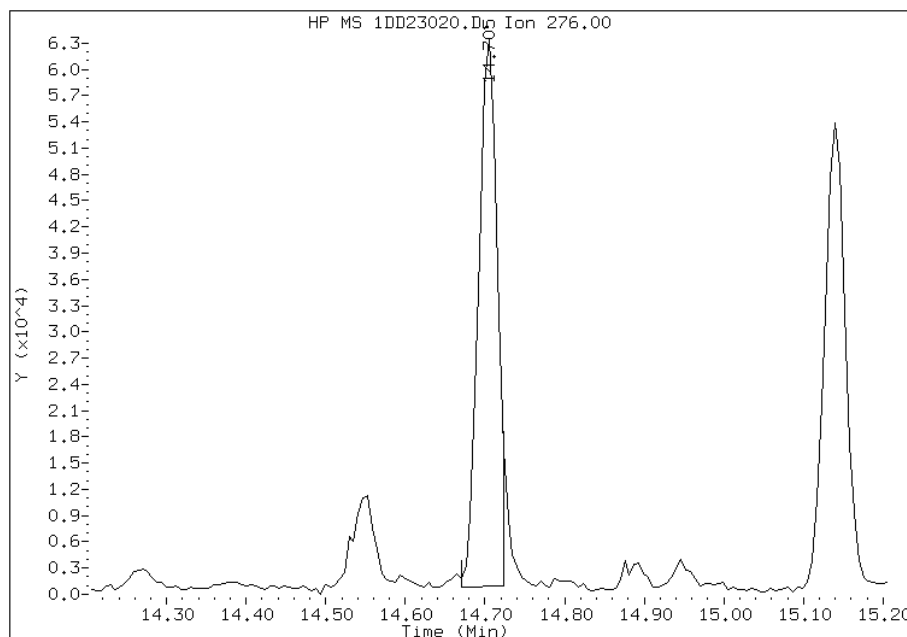
Processing Integration Results

RT: 14.71
Response: 107566
Amount: 2
Conc: 653



Manual Integration Results

RT: 14.71
Response: 102117
Amount: 2
Conc: 620



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1217B-CS</u>	Lab Sample ID: <u>680-89459-19</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23021.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 14:25</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.20(g)</u>	Date Analyzed: <u>04/23/2013 20:30</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>35.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	610	U	610	120
208-96-8	Acenaphthylene	250	U	250	31
120-12-7	Anthracene	39	J	52	26
56-55-3	Benzo[a]anthracene	450		49	24
50-32-8	Benzo[a]pyrene	620		64	32
205-99-2	Benzo[b]fluoranthene	1200		75	37
191-24-2	Benzo[g,h,i]perylene	540		120	27
207-08-9	Benzo[k]fluoranthene	430		49	22
218-01-9	Chrysene	630		55	28
53-70-3	Dibenz(a,h)anthracene	180		120	25
206-44-0	Fluoranthene	480		120	25
86-73-7	Fluorene	120	U	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	480		120	44
90-12-0	1-Methylnaphthalene	53	J	250	27
91-57-6	2-Methylnaphthalene	68	J	250	44
91-20-3	Naphthalene	93	J	250	27
85-01-8	Phenanthrene	220		49	24
129-00-0	Pyrene	420		120	23

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23021.D
 Lab Smp Id: 680-89459-A-19-A Client Smp ID: CV1217B-CS
 Inj Date : 23-APR-2013 20:30
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-19-A
 Misc Info : 680-89459-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 20
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	35.783	% 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/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.056	6.051	(1.000)	1733516	40.0000		
*	6 Acenaphthene-d10	164	7.737	7.732	(1.000)	990757	40.0000		
*	9 Phenanthrene-d10	188	8.994	8.995	(1.000)	1632252	40.0000		
\$	13 o-Terphenyl	230	9.300	9.306	(1.034)	37885	1.54043	630	
*	17 Chrysene-d12	240	11.309	11.304	(1.000)	1755033	40.0000		
*	22 Perylene-d12	264	13.130	13.120	(1.000)	1990200	40.0000		
	2 Naphthalene	128	6.074	6.075	(1.003)	9759	0.22649	93(Q)	
	3 2-Methylnaphthalene	142	6.779	6.780	(1.119)	4642	0.16689	68	
	4 1-Methylnaphthalene	142	6.873	6.874	(1.135)	3369	0.12826	52	
	8 Fluorene	166	8.201	8.208	(1.060)	1066	0.03478	14	
	10 Phenanthrene	178	9.012	9.013	(1.002)	24251	0.53939	220	
	11 Anthracene	178	9.053	9.054	(1.007)	4262	0.09551	39	
	12 Carbazole	167	9.194	9.195	(1.022)	3103	0.07883	32	
	14 Fluoranthene	202	9.999	10.000	(1.112)	54248	1.17253	480	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
15 Pyrene	202	10.181	10.188	(0.900)	53377	1.01278	420
16 Benzo(a)anthracene	228	11.291	11.287	(0.998)	56010	1.10383	450
18 Chrysene	228	11.327	11.328	(1.002)	72994	1.53421	630
19 Benzo(b)fluoranthene	252	12.584	12.585	(0.958)	145851	2.93370	1200
20 Benzo(k)fluoranthene	252	12.613	12.620	(0.961)	55412	1.05797	430
21 Benzo(a)pyrene	252	13.031	13.032	(0.992)	75384	1.50911	620
23 Indeno(1,2,3-cd)pyrene	276	14.699	14.706	(1.119)	62088	1.16566	480(M)
24 Dibenzo(a,h)anthracene	278	14.723	14.735	(1.121)	22512	0.44882	180
25 Benzo(g,h,i)perylene	276	15.140	15.141	(1.153)	67712	1.32028	540

QC Flag Legend

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

Data File: 1DD23021.D

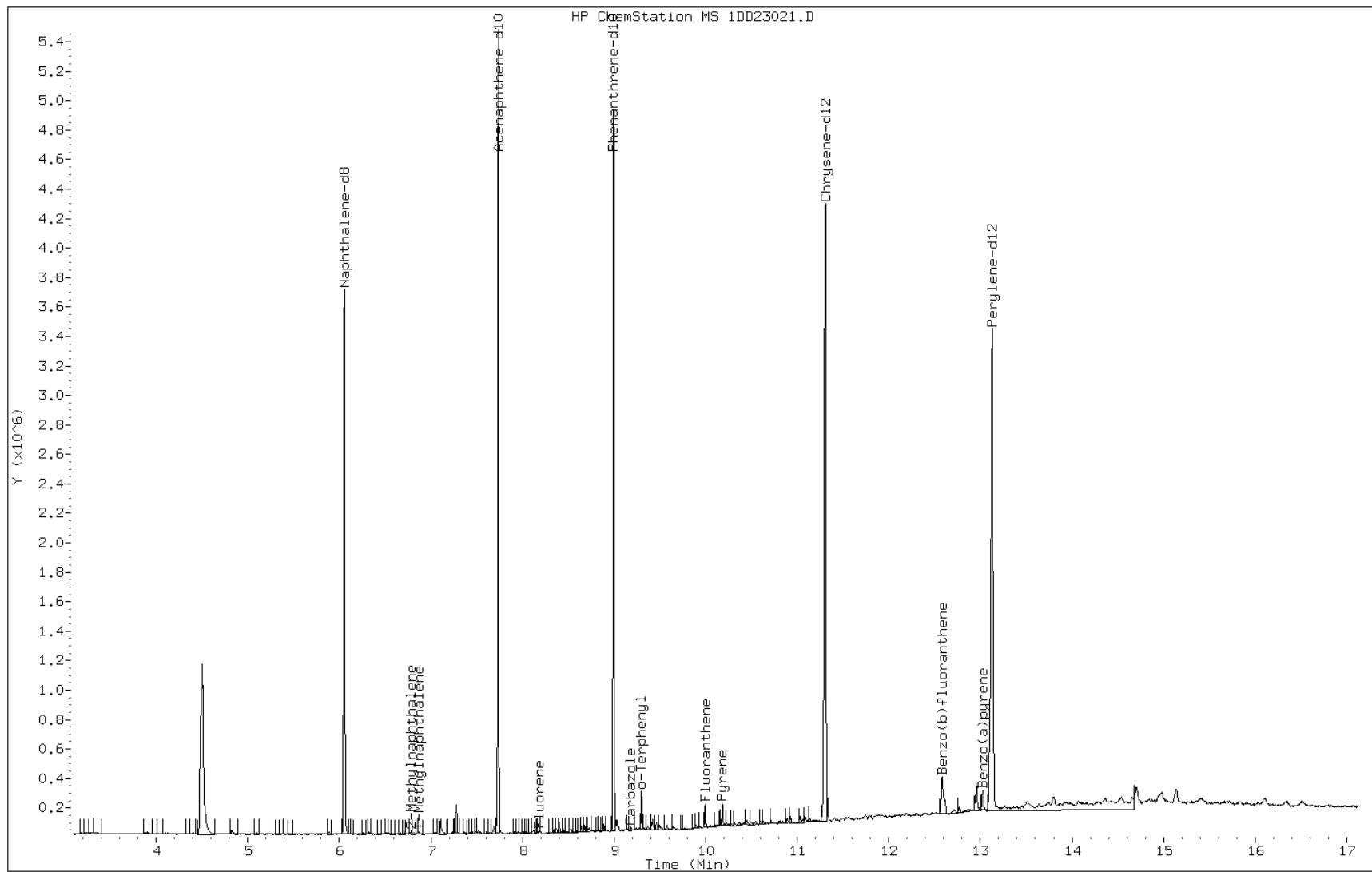
Date: 23-APR-2013 20:30

Client ID: CV1217B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-19-A

Operator: SCC



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

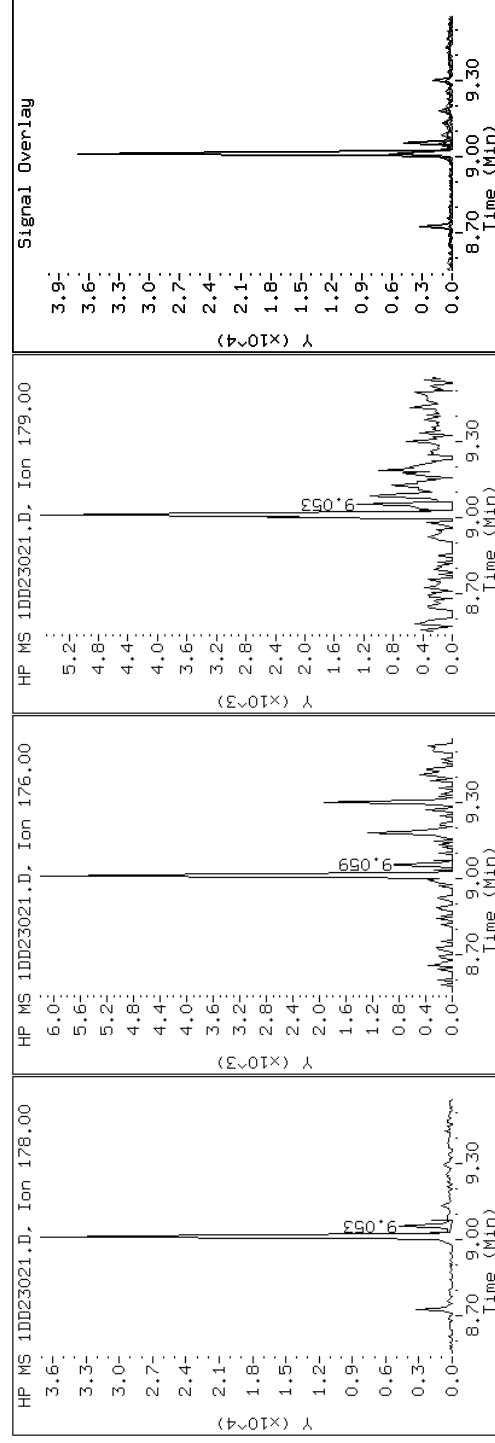
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

11 Anthracene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

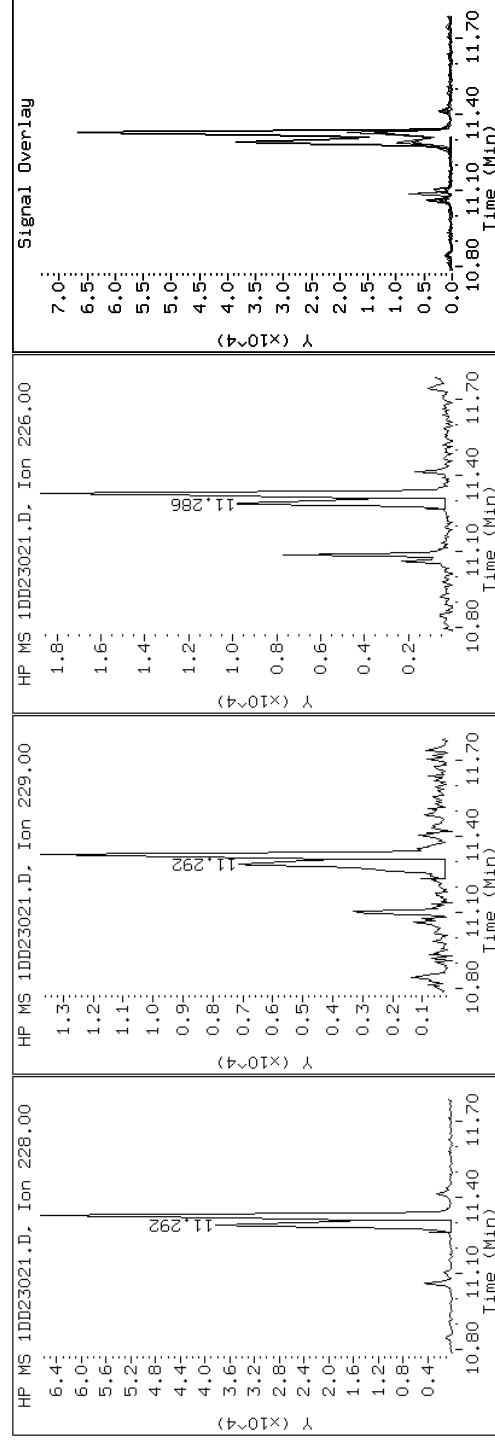
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

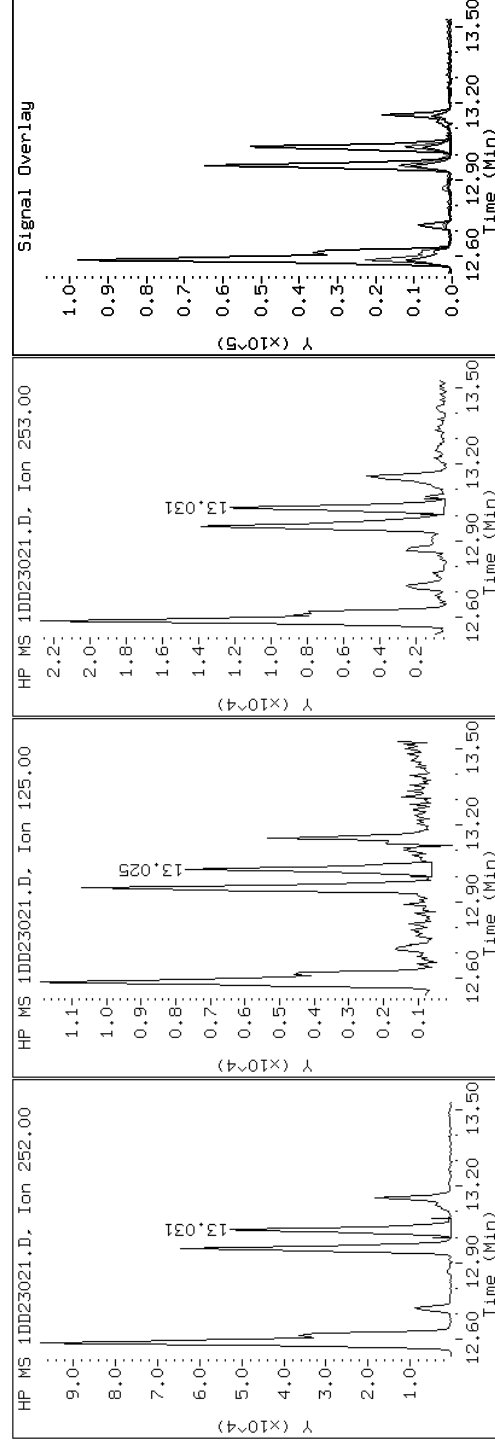
Client ID: CV1217B-CS

Sample Info: 680-89459-A-19-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

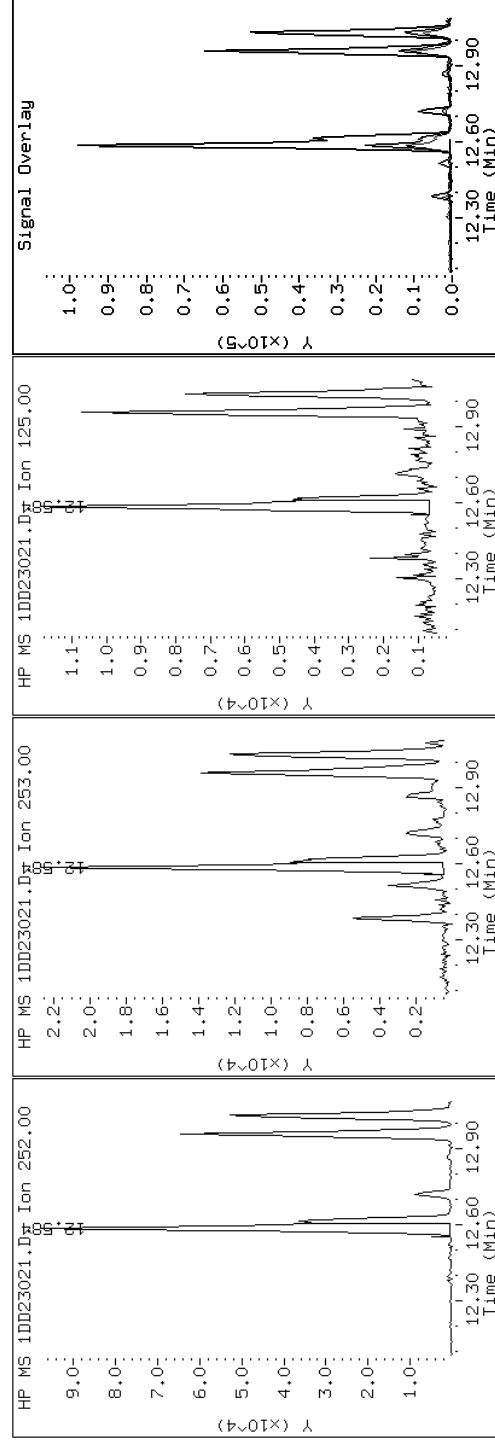
Client ID: CV1217B-CS

Sample Info: 680-89459-A-19-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

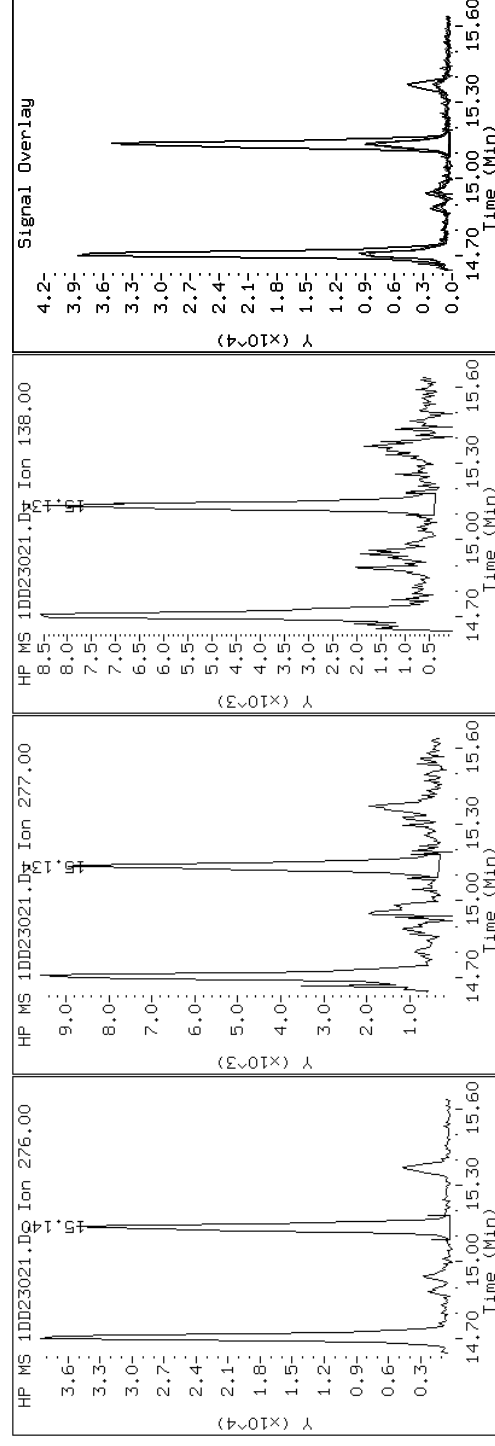
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

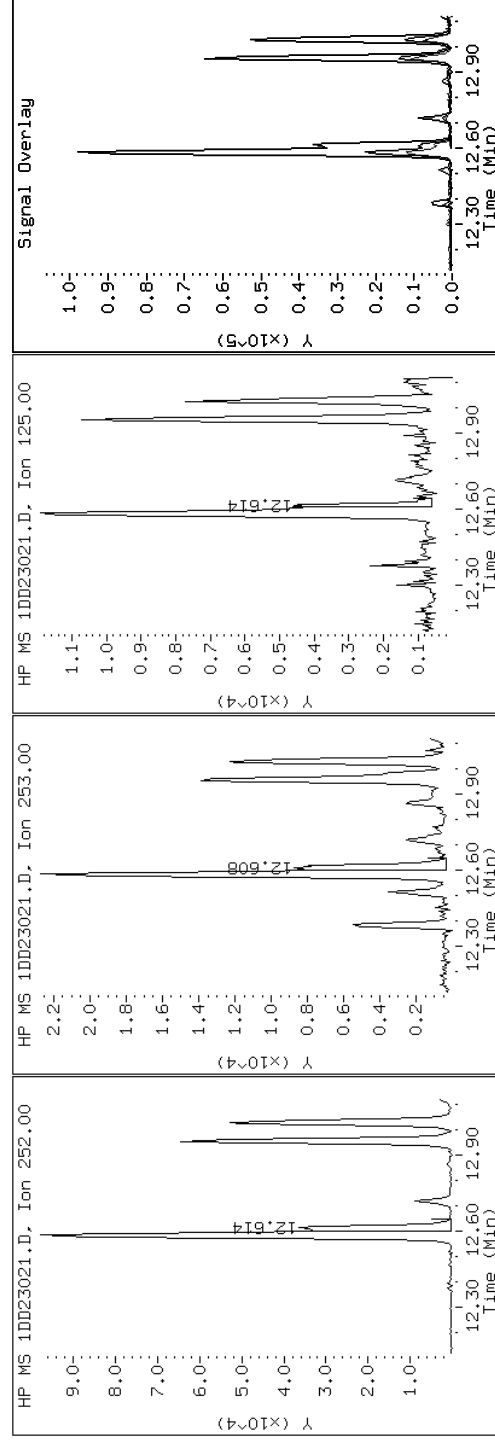
Client ID: CV1217B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-19-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

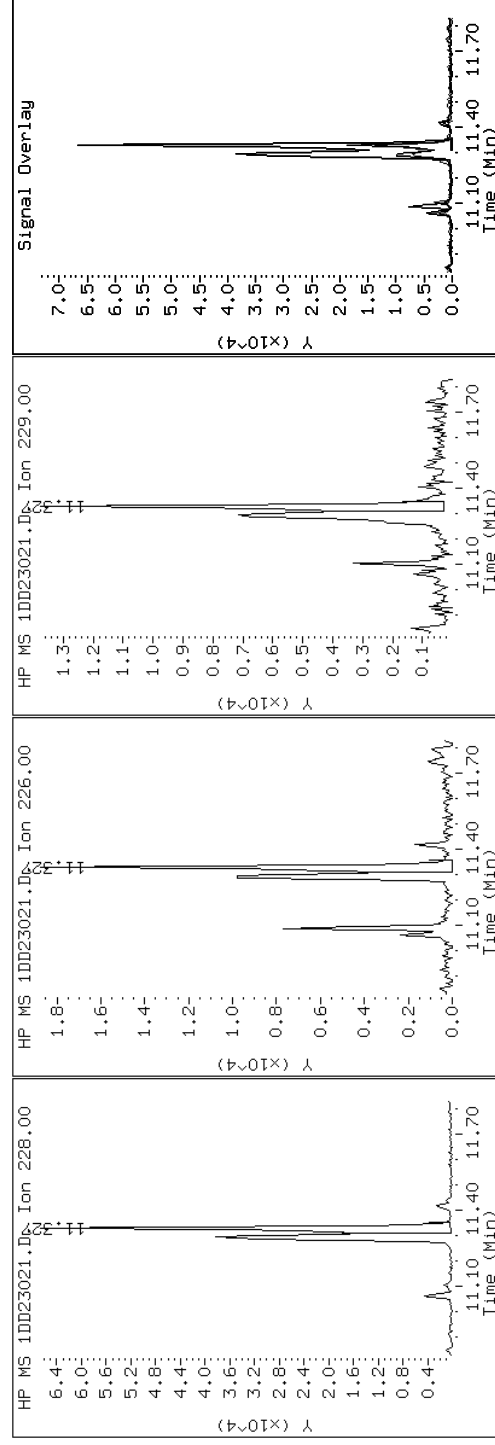
Client ID: CV1217B-CS

Sample Info: 680-89459-A-19-A

18 Chrysene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

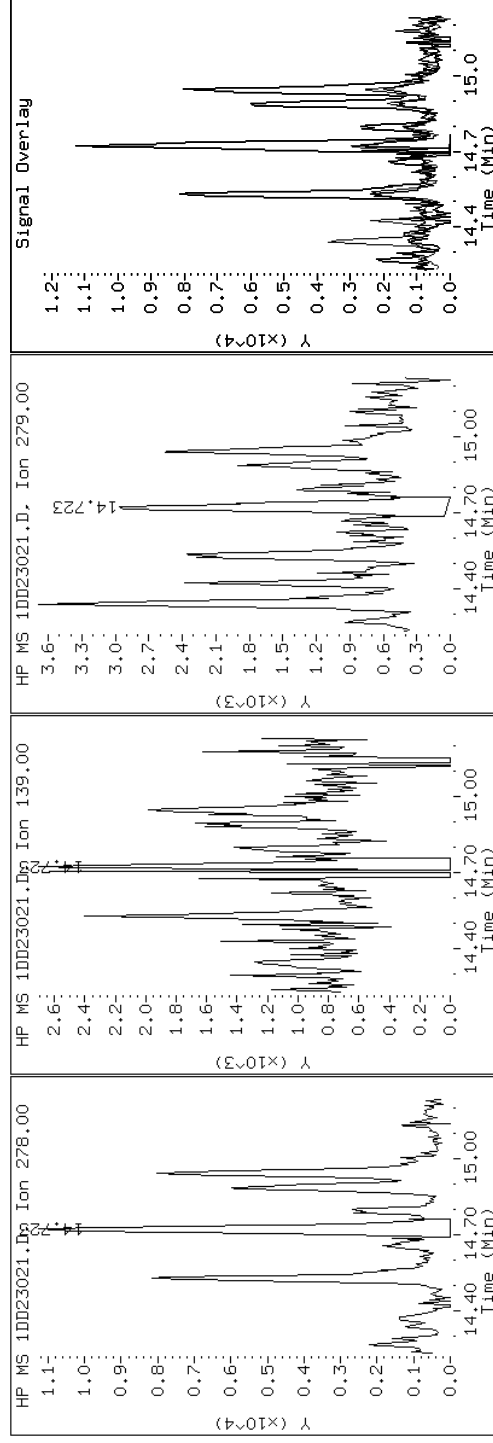
Client ID: CV1217B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-19-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

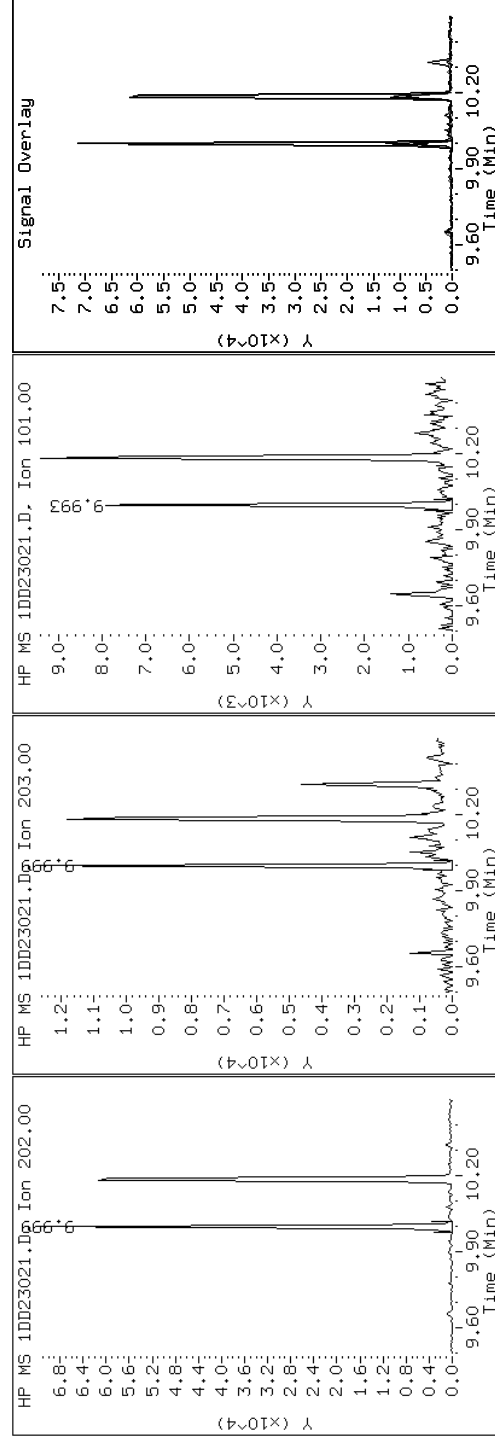
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

14 Fluoranthene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

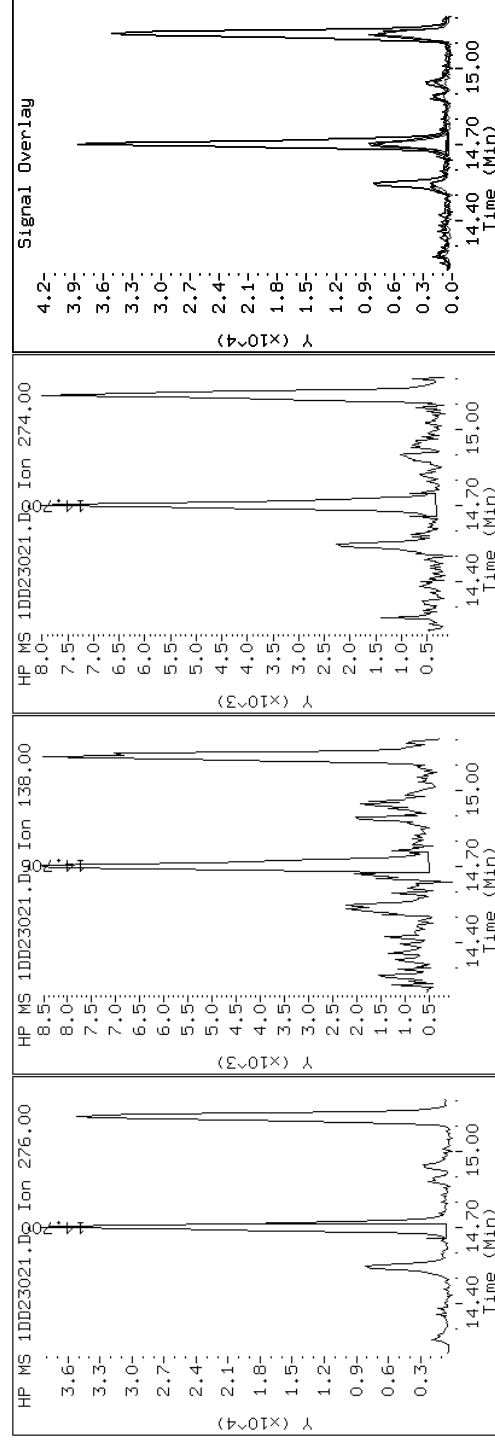
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

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



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

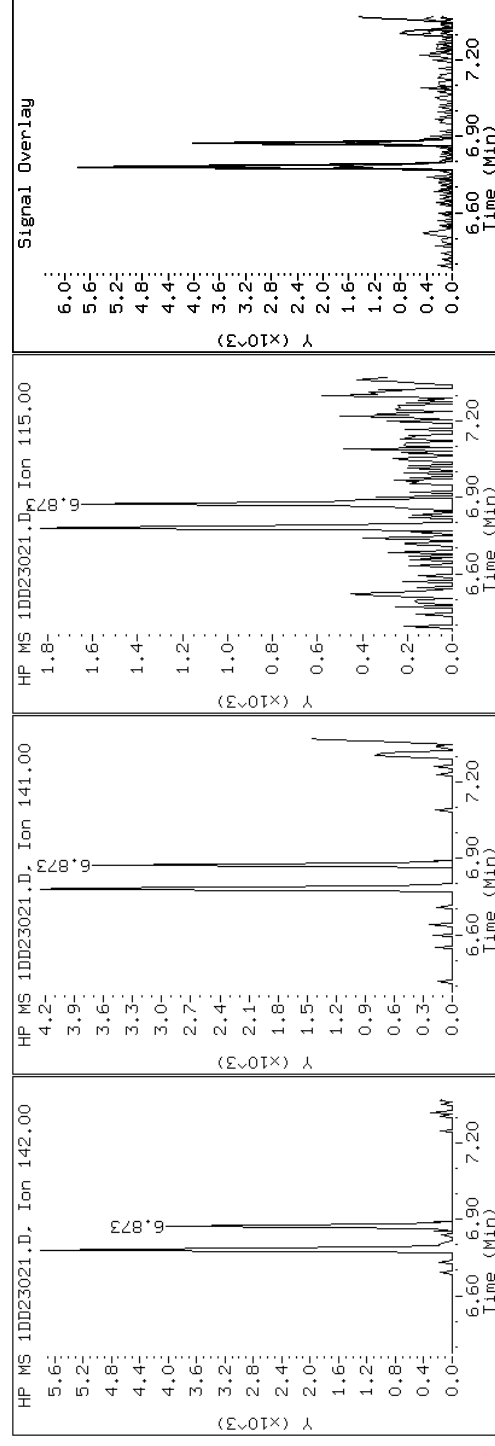
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

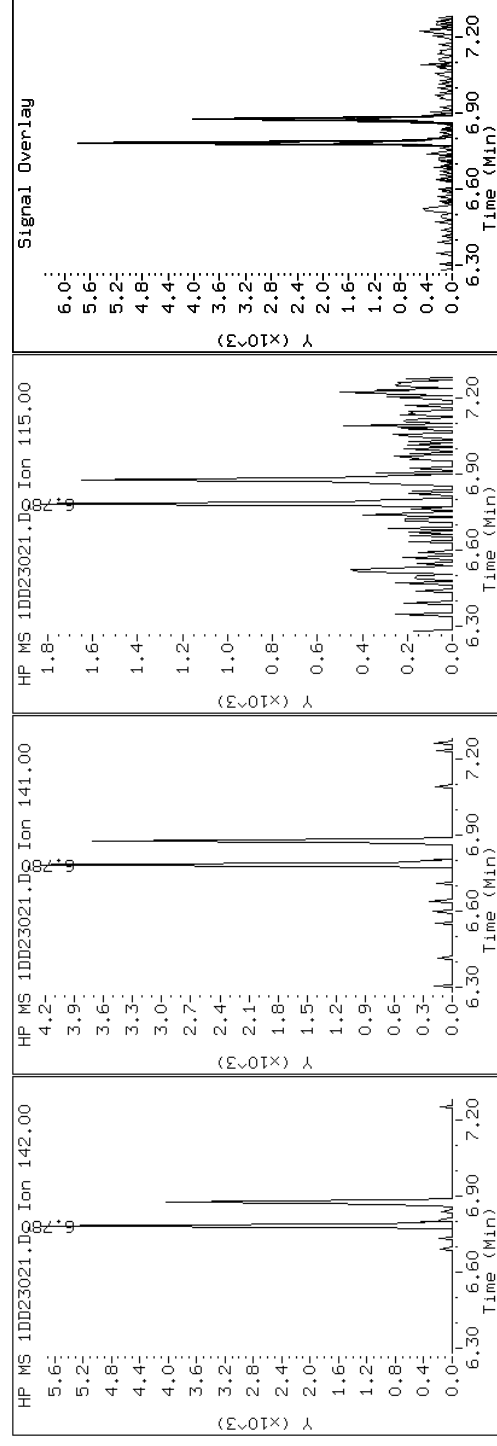
Client ID: CV1217B-CS

Sample Info: 680-89459-A-19-A

Instrument: BSMDS.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

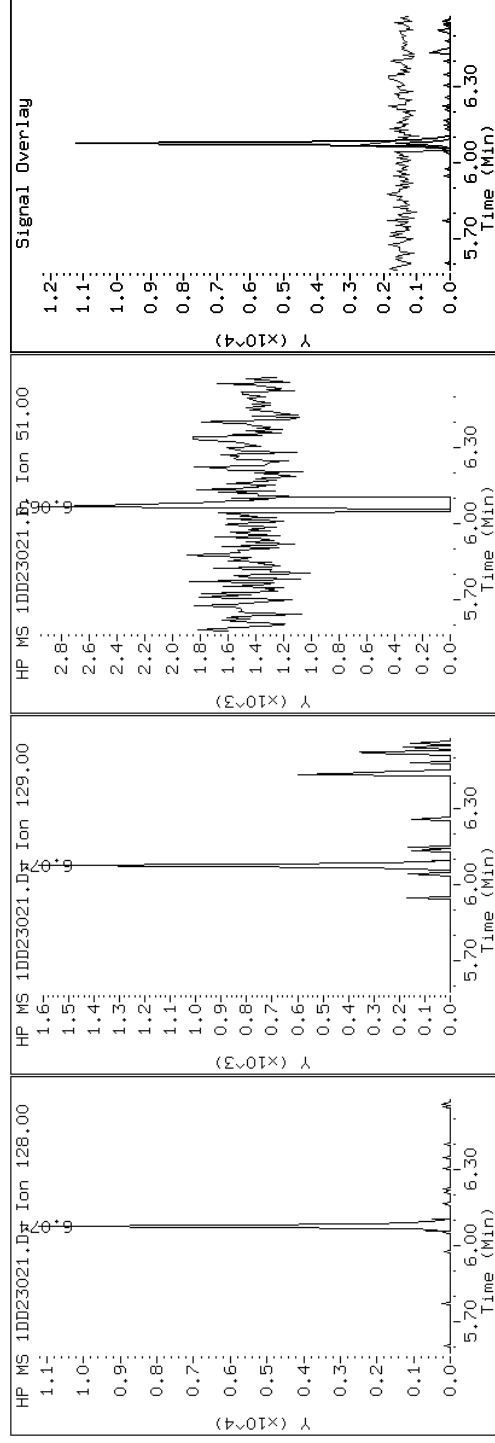
Client ID: CV1217B-CS

Sample Info: 680-89459-A-19-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

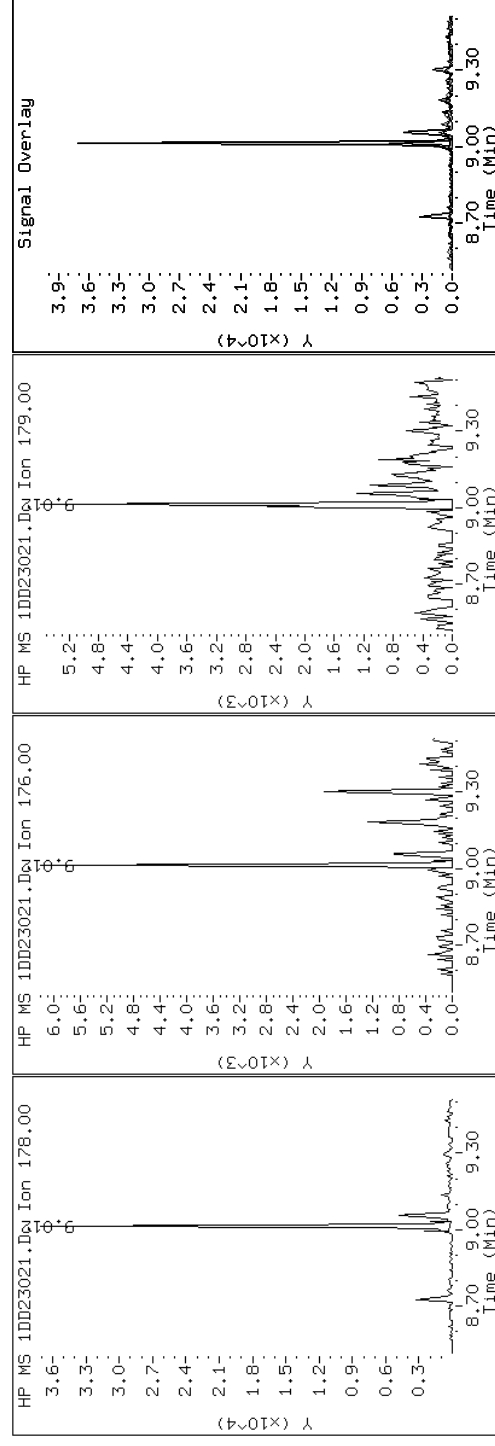
Client ID: CV1217B-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-19-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23021.D

Date: 23-APR-2013 20:30

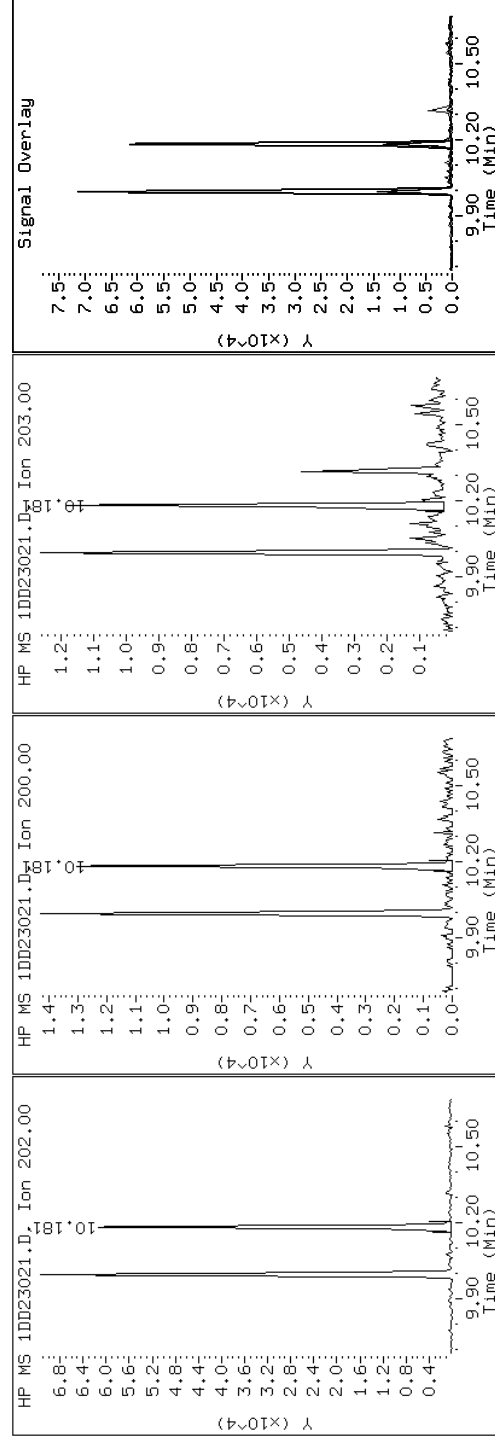
Client ID: CV1217B-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-19-A

Operator: SCC

15 Pyrene

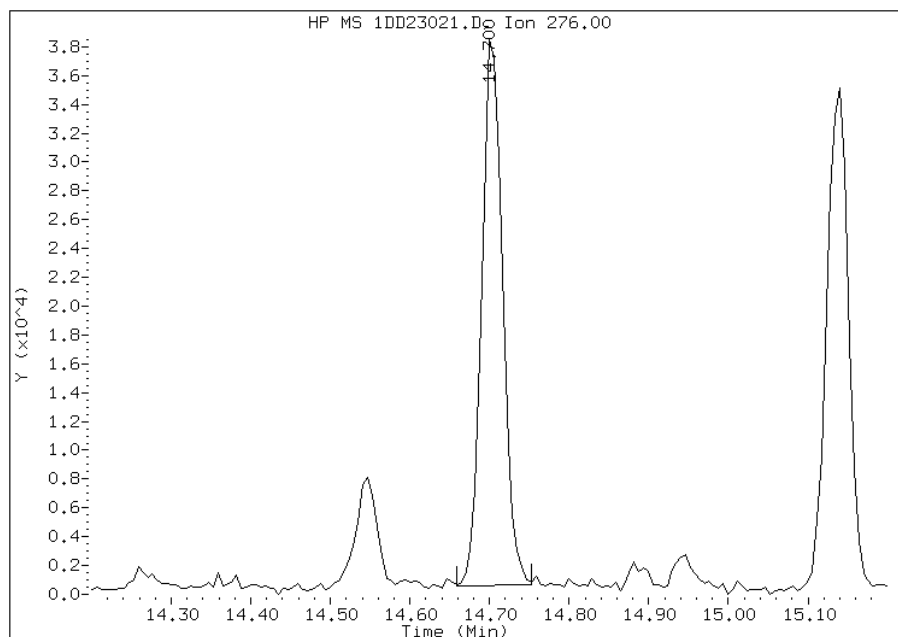


Manual Integration Report

Data File: 1DD23021.D
Inj. Date and Time: 23-APR-2013 20:30
Instrument ID: BSMSD.i
Client ID: CV1217B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

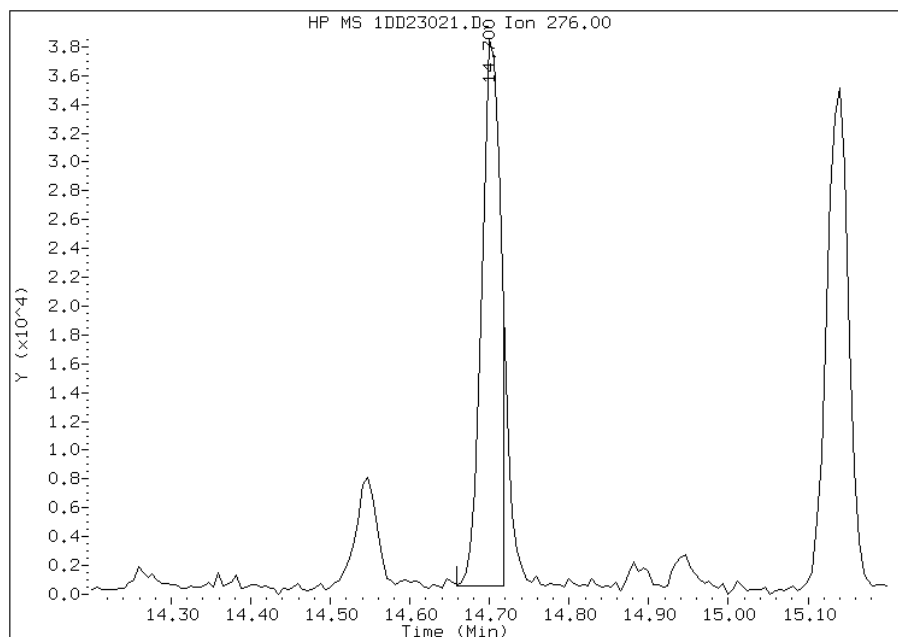
Processing Integration Results

RT: 14.70
Response: 68722
Amount: 1
Conc: 529



Manual Integration Results

RT: 14.70
Response: 62088
Amount: 1
Conc: 478



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1219A-CS</u>	Lab Sample ID: <u>680-89459-20</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23022.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 13:50</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.98(g)</u>	Date Analyzed: <u>04/23/2013 20:52</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>20.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	7.6	J	50	6.3
120-12-7	Anthracene	35		11	5.3
56-55-3	Benzo[a]anthracene	550		10	4.9
50-32-8	Benzo[a]pyrene	1200		13	6.6
205-99-2	Benzo[b]fluoranthene	1700		15	7.7
191-24-2	Benzo[g,h,i]perylene	780		25	5.5
207-08-9	Benzo[k]fluoranthene	570		10	4.5
218-01-9	Chrysene	700		11	5.7
53-70-3	Dibenz(a,h)anthracene	240		25	5.2
206-44-0	Fluoranthene	420		25	5.0
86-73-7	Fluorene	14	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	670		25	9.0
90-12-0	1-Methylnaphthalene	38	J	50	5.5
91-57-6	2-Methylnaphthalene	48	J	50	9.0
91-20-3	Naphthalene	41	J	50	5.5
85-01-8	Phenanthrene	170		10	4.9
129-00-0	Pyrene	370		25	4.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23022.D
 Lab Smp Id: 680-89459-A-20-A Client Smp ID: CV1219A-CS
 Inj Date : 23-APR-2013 20:52
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-20-A
 Misc Info : 680-89459-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	20.567	% 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/l)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.055	6.051	(1.000)	1715937	40.0000	
*	6 Acenaphthene-d10	164	7.735	7.732	(1.000)	987335	40.0000	
*	9 Phenanthrene-d10	188	8.998	8.995	(1.000)	1596132	40.0000	
\$	13 o-Terphenyl	230	9.304	9.306	(1.034)	110497	4.59456	390
*	17 Chrysene-d12	240	11.307	11.304	(1.000)	1874157	40.0000	
*	22 Perylene-d12	264	13.140	13.120	(1.000)	2028839	40.0000	
	2 Naphthalene	128	6.072	6.075	(1.003)	21033	0.49315	41
	3 2-Methylnaphthalene	142	6.783	6.780	(1.120)	15794	0.57365	48
	4 1-Methylnaphthalene	142	6.871	6.874	(1.135)	11896	0.45754	38
	5 Acenaphthylene	152	7.606	7.608	(0.983)	3755	0.08986	7.6
	7 Acenaphthene	154	7.758	7.761	(1.003)	6048	0.23447	20
	8 Fluorene	166	8.205	8.208	(1.061)	5012	0.16408	14
	10 Phenanthrene	178	9.016	9.013	(1.002)	86836	1.97512	160
	11 Anthracene	178	9.051	9.054	(1.006)	18150	0.41594	35

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.198	9.195	(1.022)	13515	0.35113	30
14 Fluoranthene	202	9.997	10.000	(1.111)	228095	5.04166	420
15 Pyrene	202	10.185	10.188	(0.901)	245720	4.36597	370
16 Benzo(a)anthracene	228	11.295	11.287	(0.999)	356517	6.57955	550
18 Chrysene	228	11.331	11.328	(1.002)	424259	8.35043	700
19 Benzo(b)fluoranthene	252	12.600	12.585	(0.959)	1044751	20.6143	1700
20 Benzo(k)fluoranthene	252	12.629	12.620	(0.961)	360016	6.74282	570
21 Benzo(a)pyrene	252	13.046	13.032	(0.993)	702252	13.7906	1200
23 Indeno(1,2,3-cd)pyrene	276	14.727	14.706	(1.121)	434019	7.99321	670(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.735	(1.122)	147062	2.87612	240
25 Benzo(g,h,i)perylene	276	15.162	15.141	(1.154)	482242	9.22389	780

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23022.D

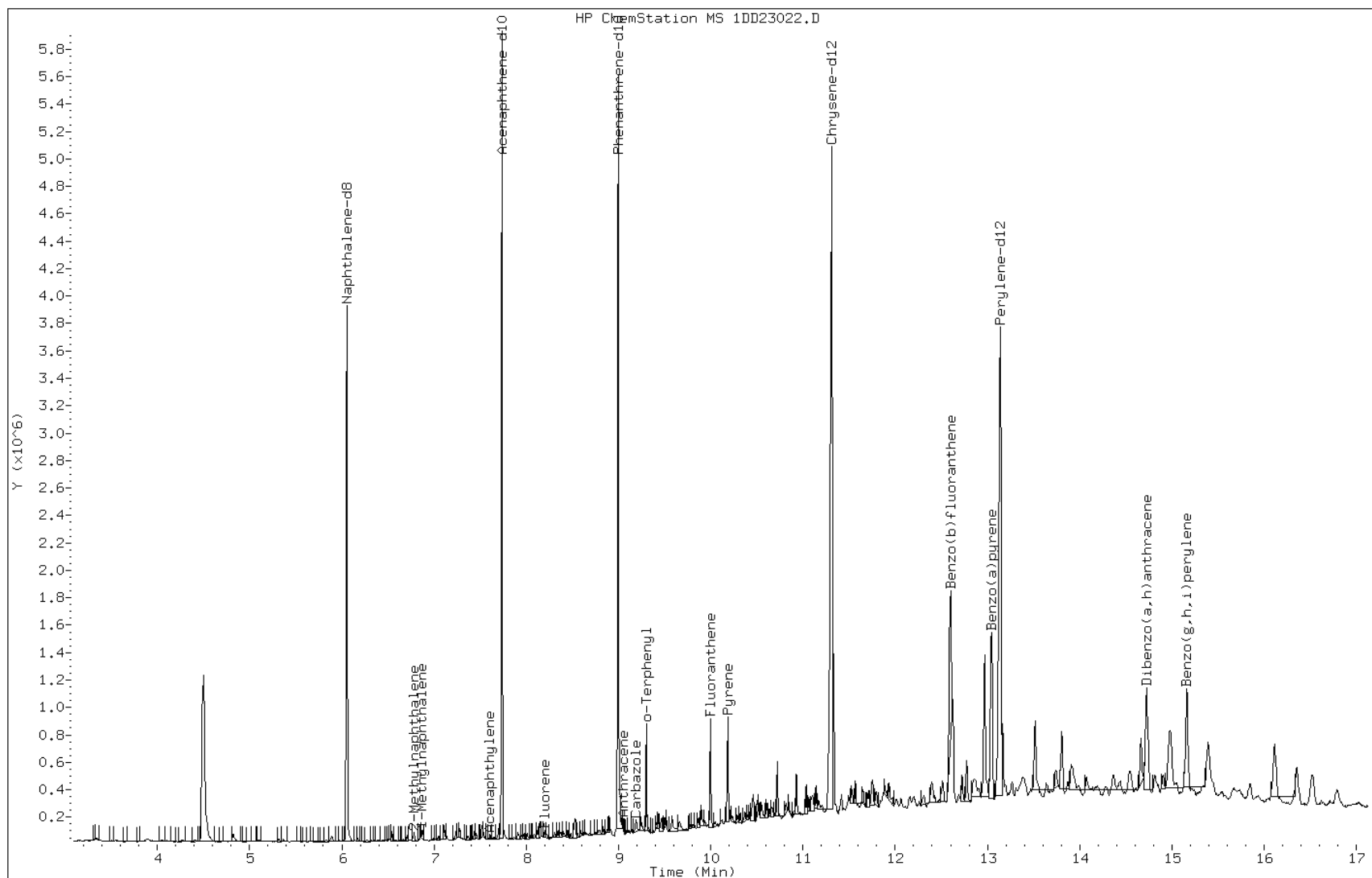
Date: 23-APR-2013 20:52

Client ID: CV1219A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-20-A

Operator: SCC



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

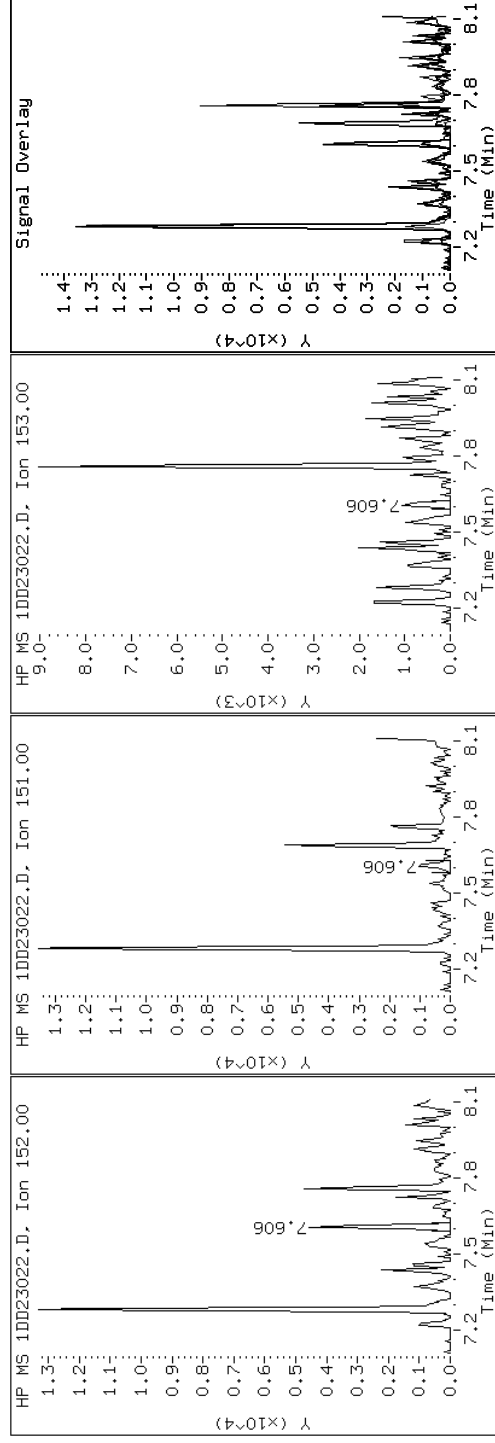
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMDS.i

Operator: SCC

5 Acenaphthylene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

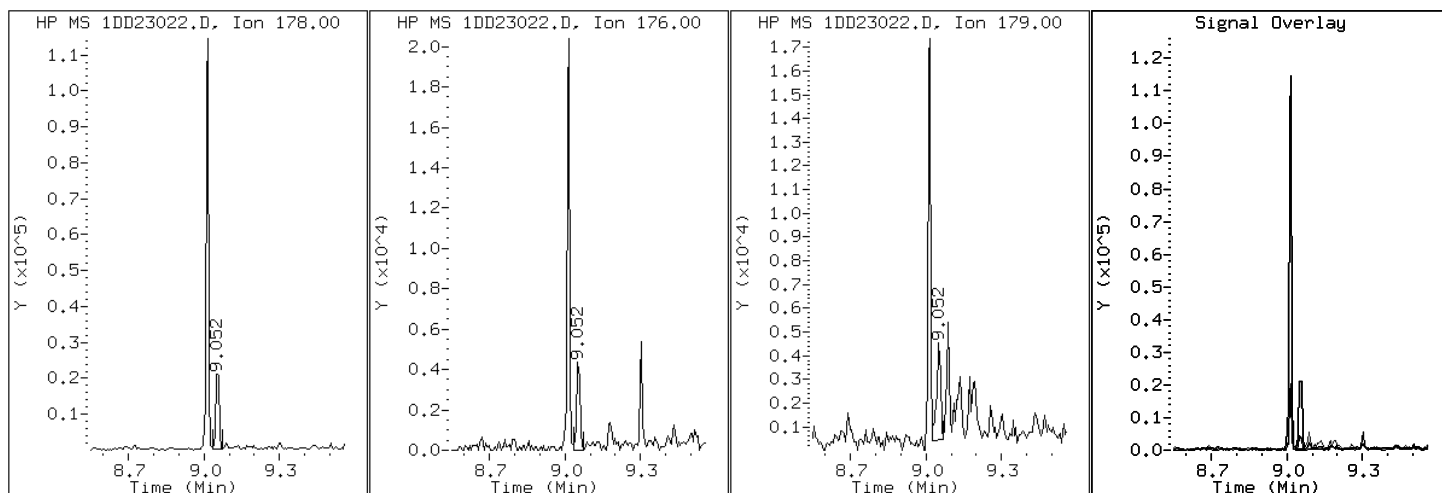
Client ID: CV1219A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-20-A

Operator: SCC

11 Anthracene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

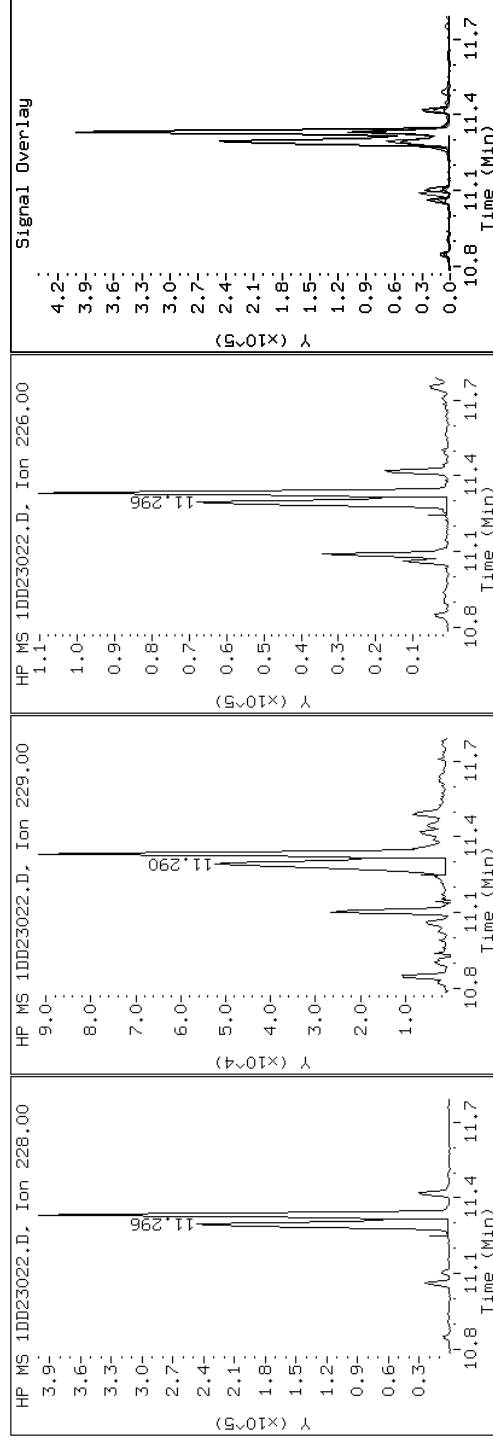
Client ID: CV1219A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-20-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

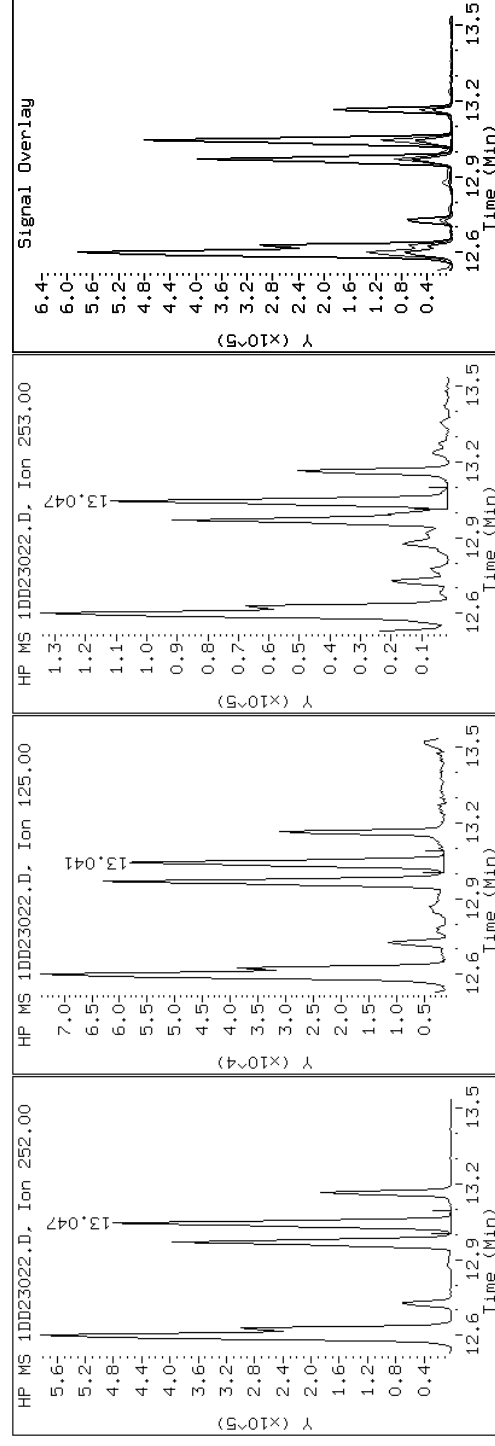
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMSD.i

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

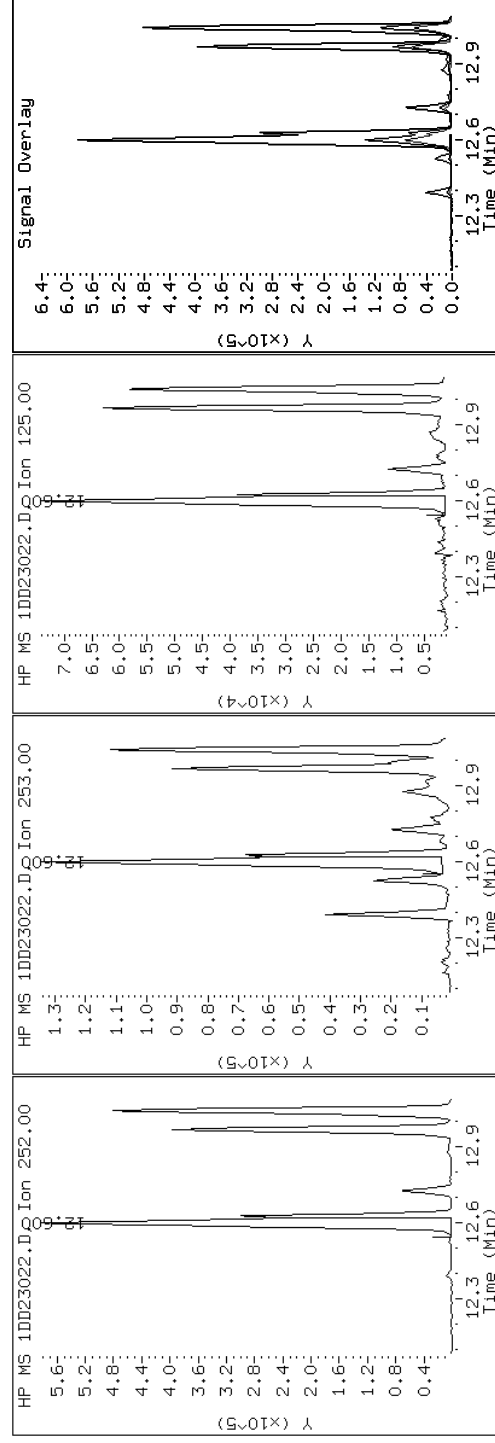
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMDS.i

Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

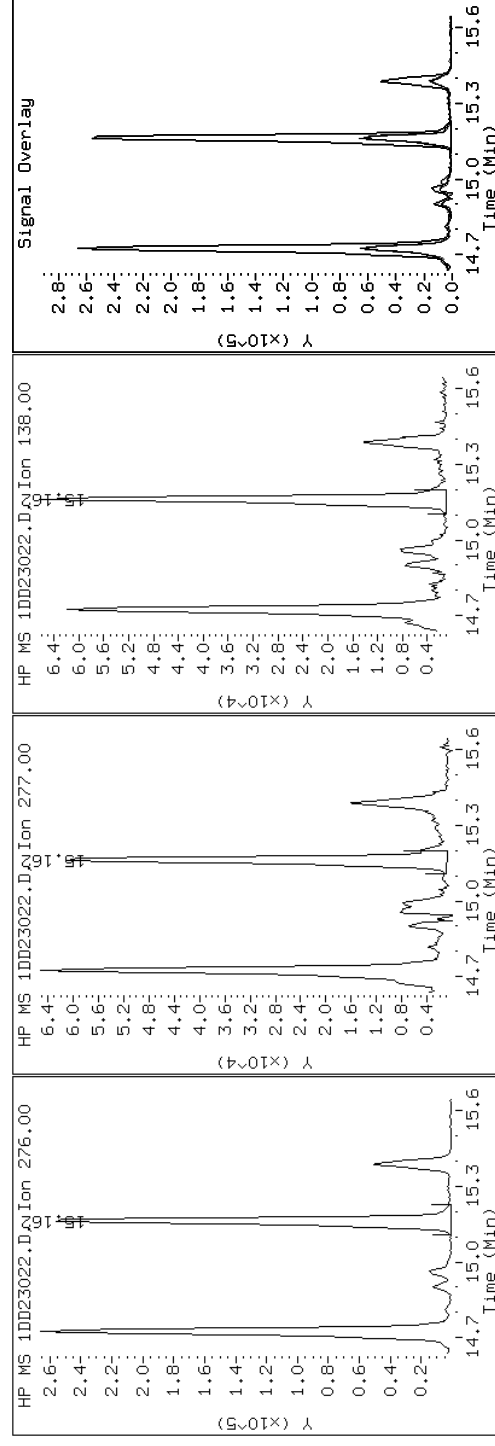
Client ID: CV1219A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-20-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

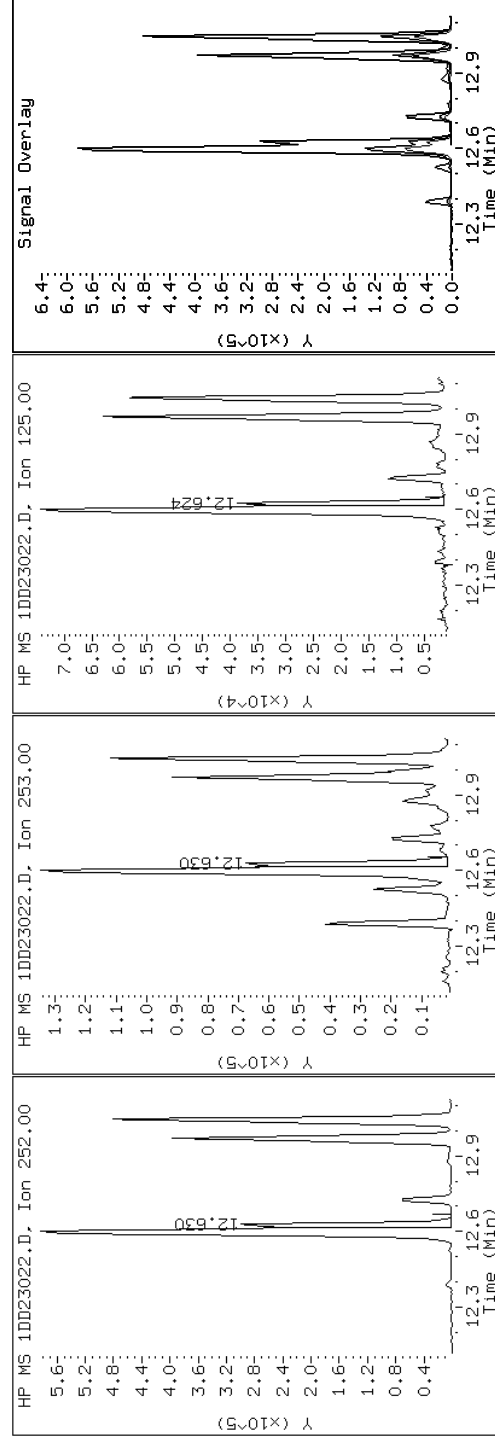
Client ID: CV1219A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-20-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

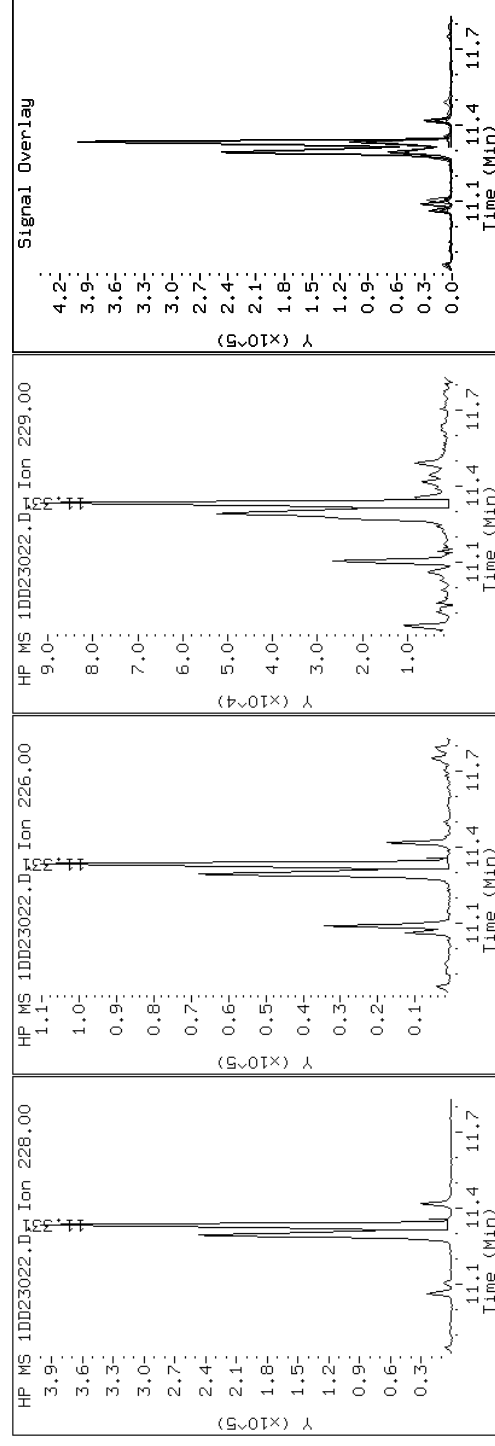
Client ID: CV1219A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-20-A

Operator: SCC

18 Chrysene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

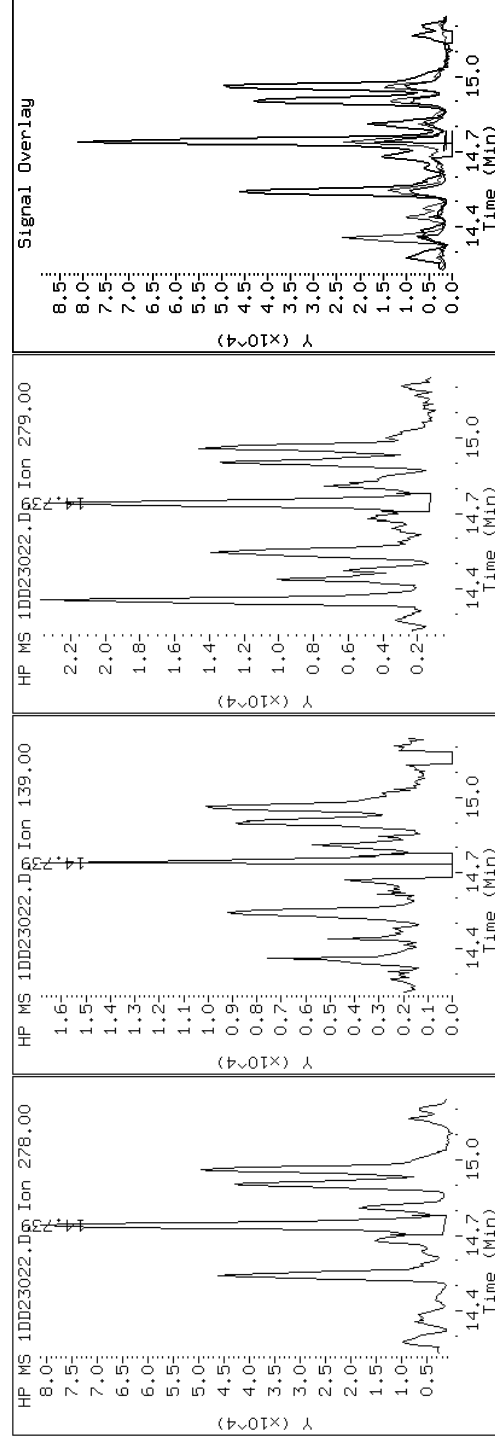
Client ID: CV1219A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-20-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

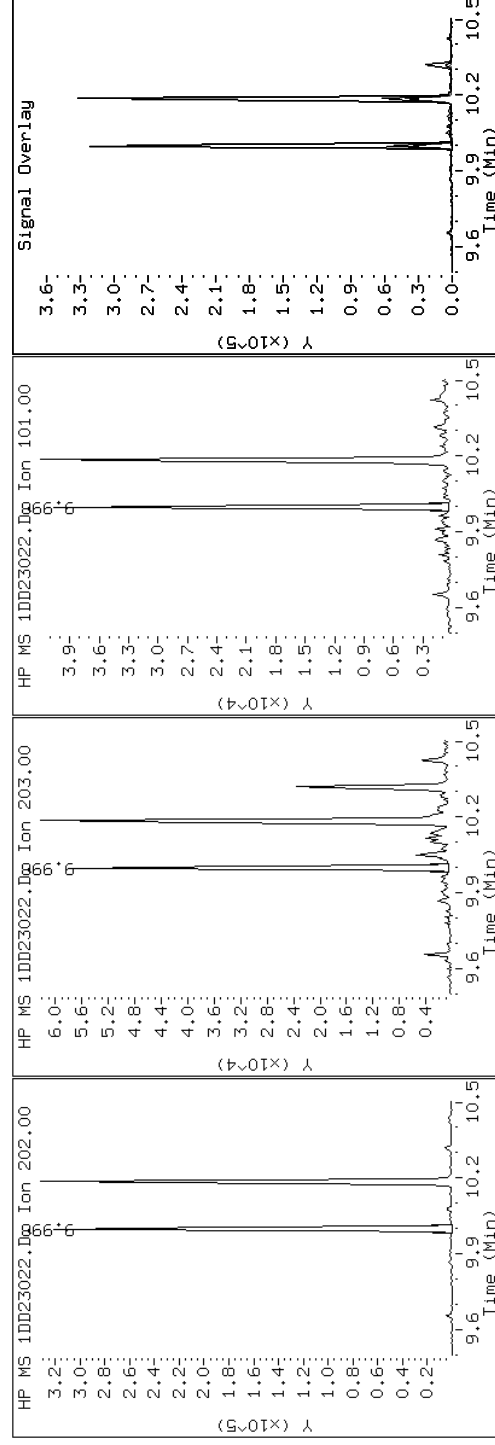
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMDS.i

Operator: SCC

14 Fluoranthene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

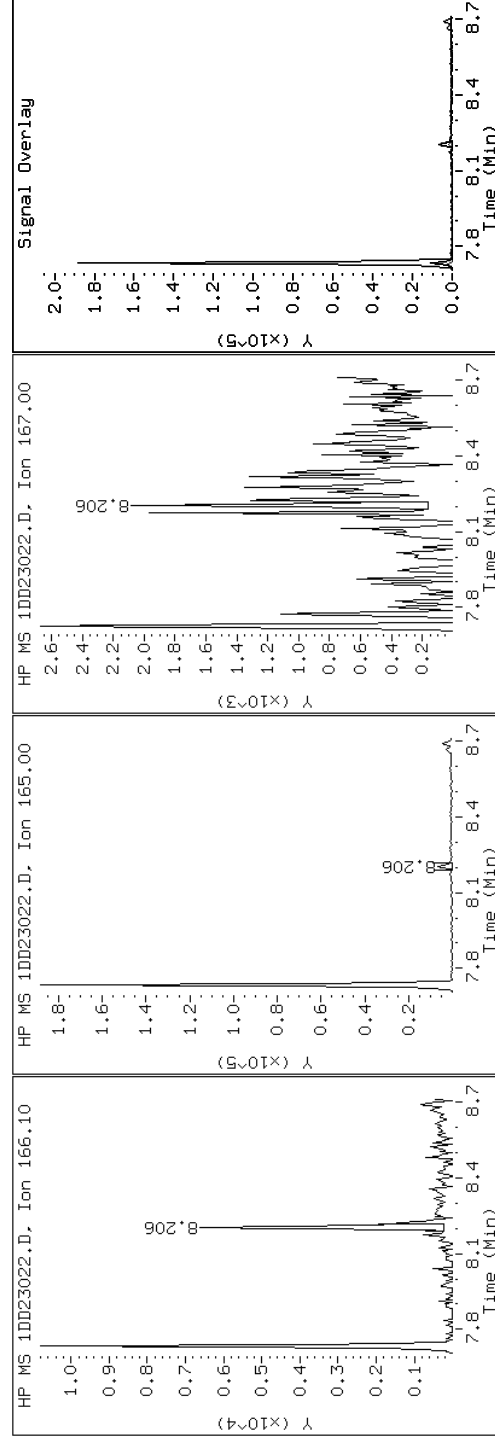
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMDS.i

Operator: SCC

8 Fluorene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

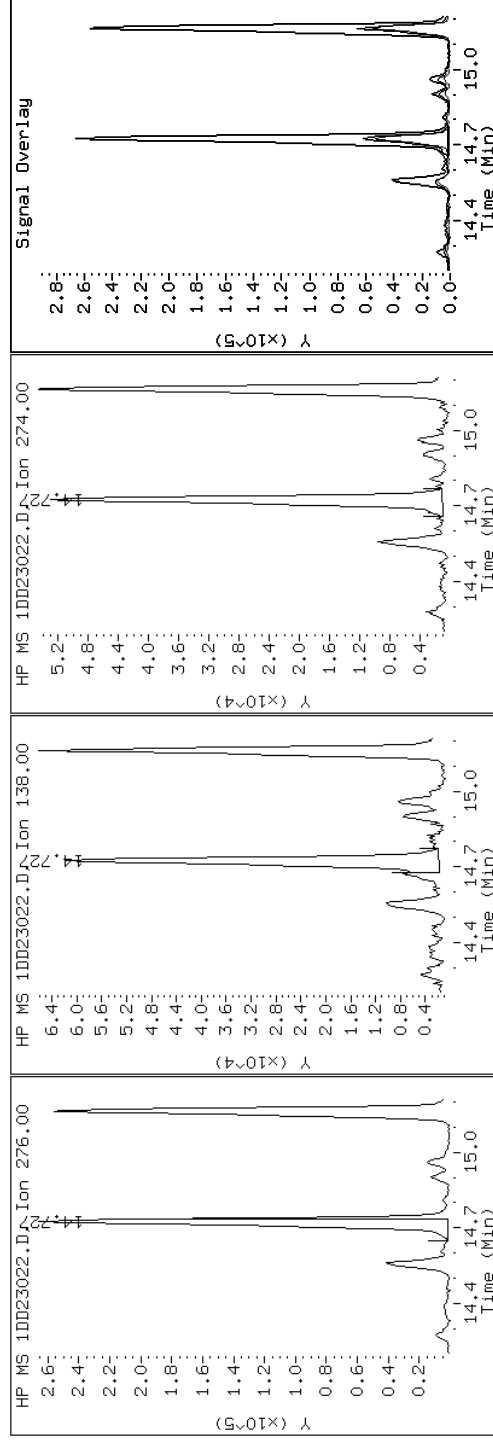
Client ID: CV1219A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-20-A

Operator: SCC

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



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

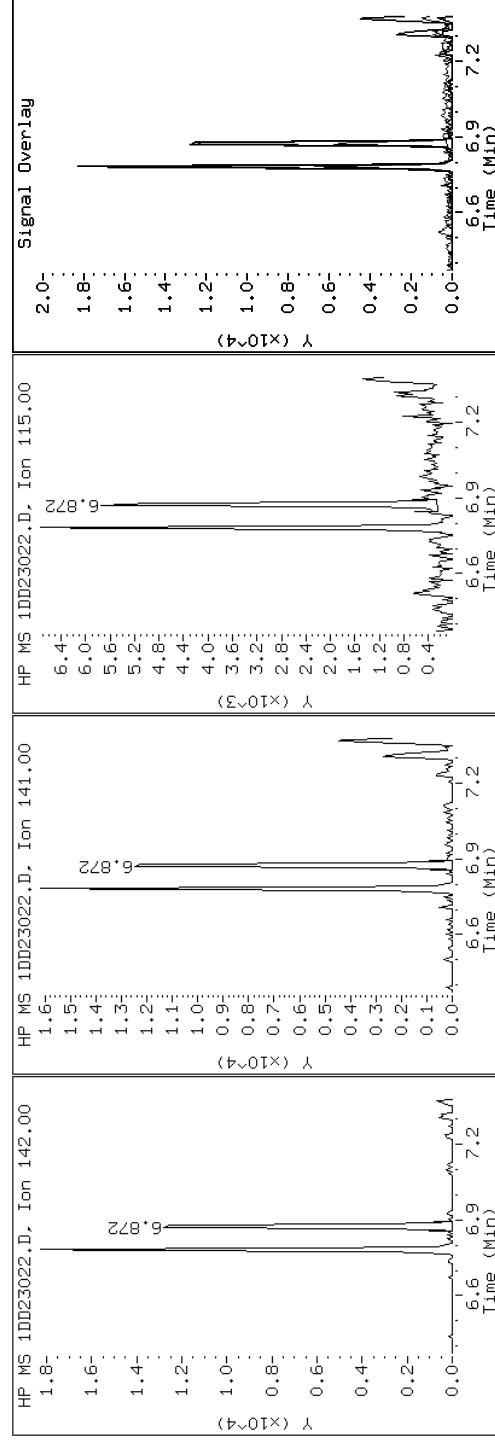
Client ID: CV1219A-CS

Instrument: BSMDS.i

Sample Info: 680-89459-A-20-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

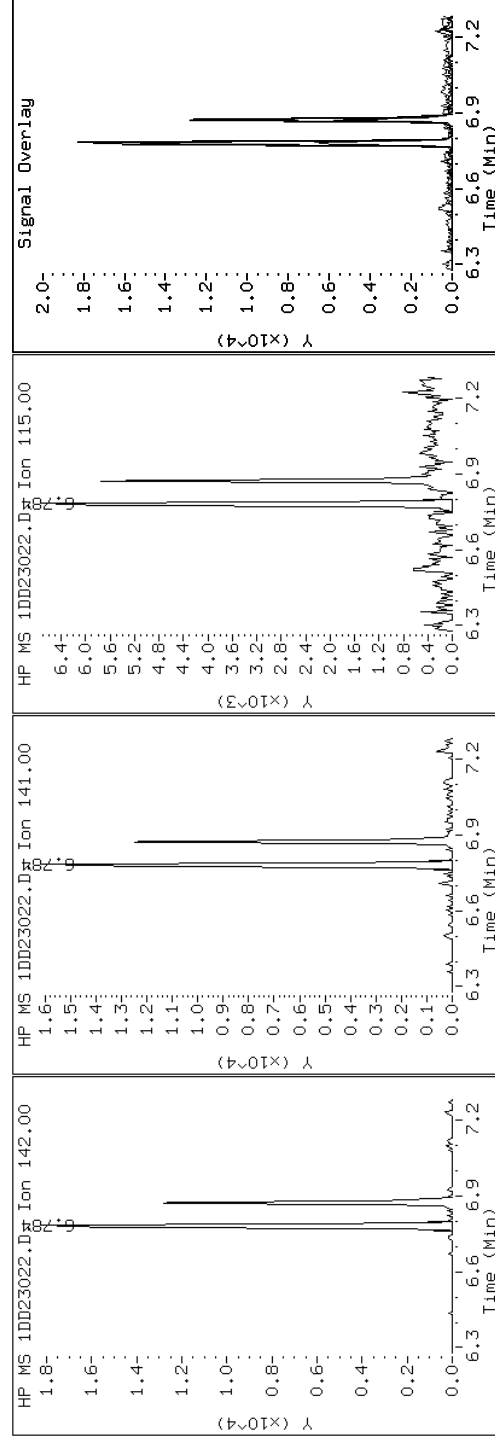
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

Instrument: BSMSD.i

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

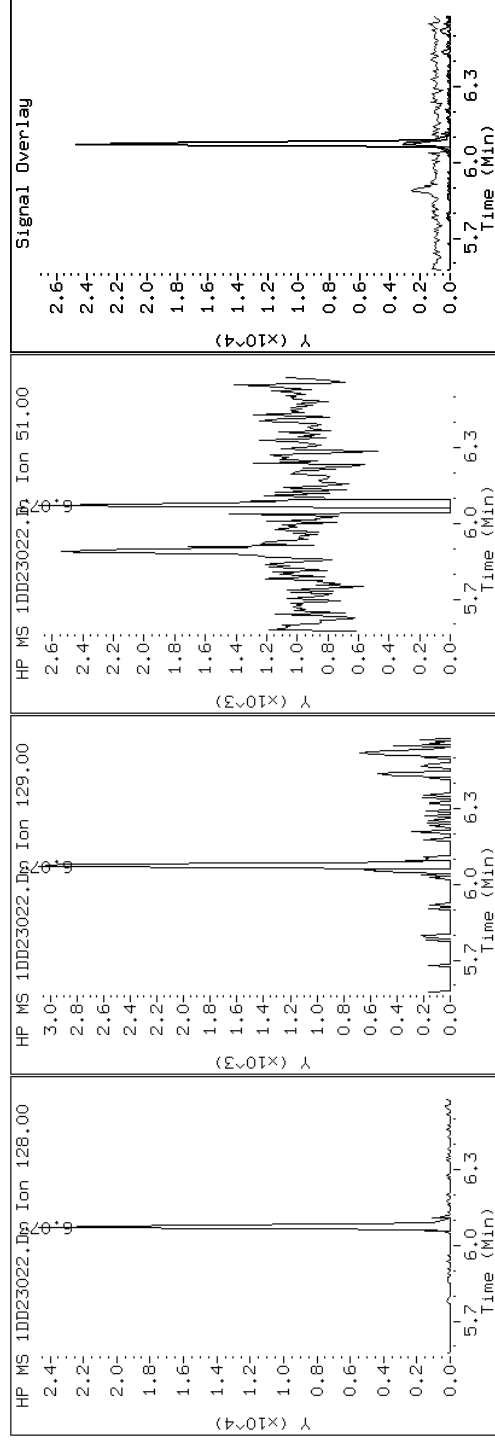
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

2 Naphthalene

Instrument: BSMDS.i

Operator: SCC



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

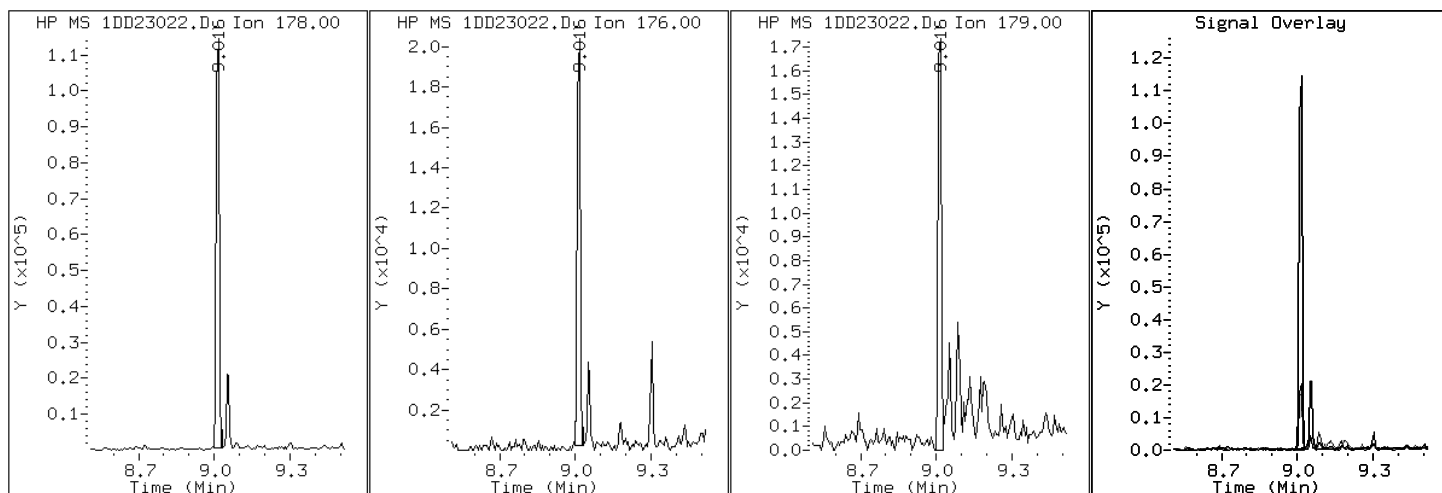
Client ID: CV1219A-CS

Instrument: BSMSD.i

Sample Info: 680-89459-A-20-A

Operator: SCC

10 Phenanthrene



Data File: 1DD23022.D

Date: 23-APR-2013 20:52

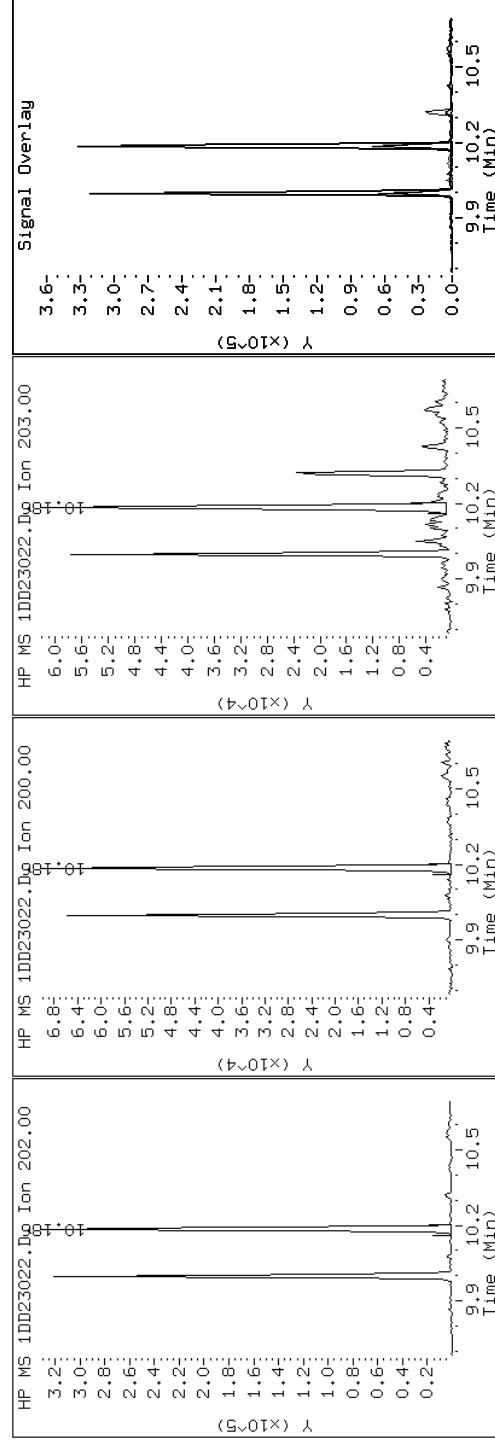
Client ID: CV1219A-CS

Sample Info: 680-89459-A-20-A

15 Pyrene

Instrument: BSMDS.i

Operator: SCC

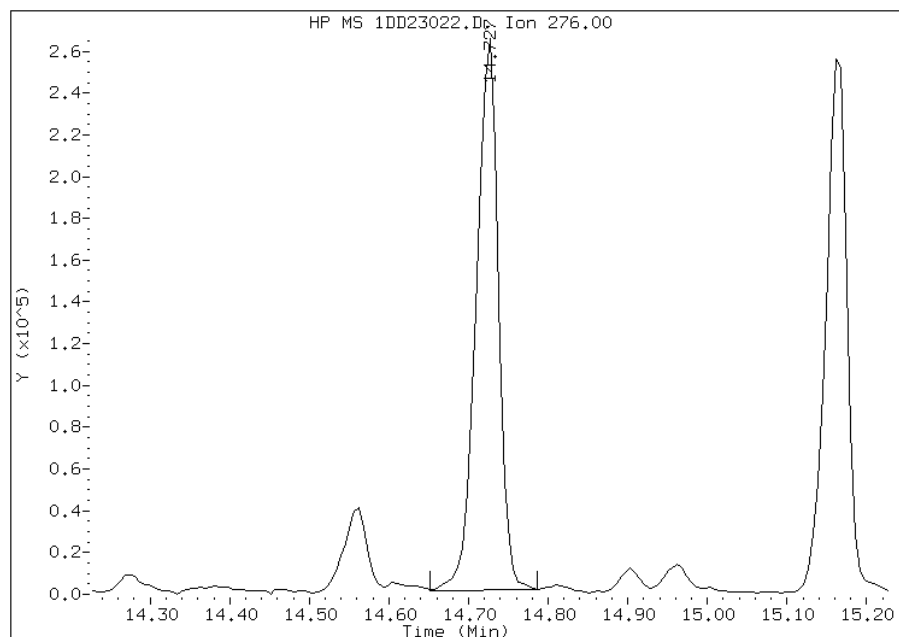


Manual Integration Report

Data File: 1DD23022.D
Inj. Date and Time: 23-APR-2013 20:52
Instrument ID: BSMSD.i
Client ID: CV1219A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

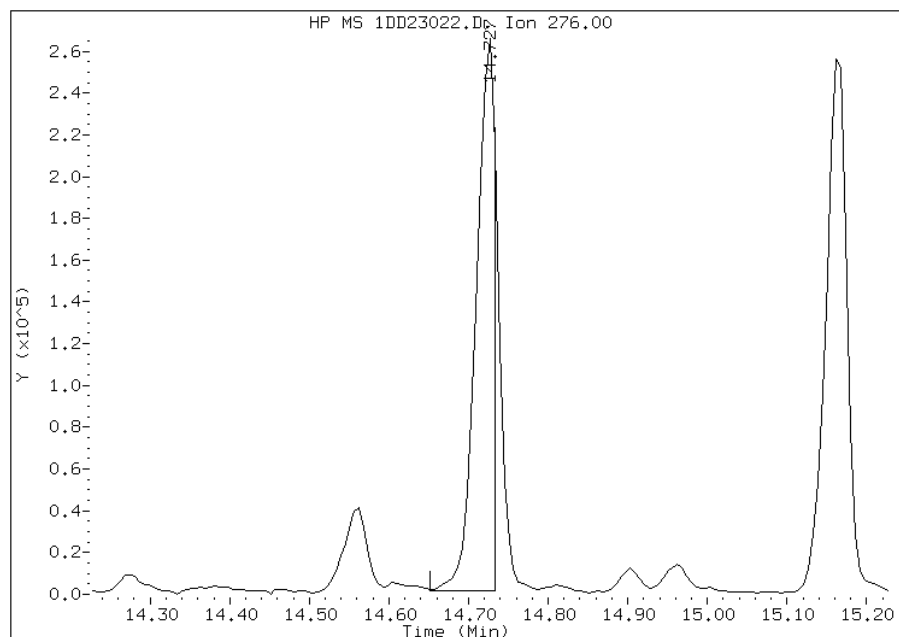
Processing Integration Results

RT: 14.73
Response: 508831
Amount: 9
Conc: 788



Manual Integration Results

RT: 14.73
Response: 434019
Amount: 8
Conc: 672



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:21
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1 Analy Batch No.: 136370

SDG No.: 68089459-1

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

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0403 1.0845	1.1154 1.0398	1.1255	1.0833	1.0799	Ave		1.0813			0.0000	3.1		15.0			
2-Methylnaphthalene	0.4518 0.7139	0.7915 0.7215	0.6274	0.6964	0.7086	Lin	0.0068	0.7231			0.0000				0.9998		0.9900
1-Methylnaphthalene	0.8501 0.6677	0.6263 0.6578	0.7166	0.6190	0.6973	Ave		0.6907			0.0000	11.4		15.0			
Acenaphthylene	1.6419 1.8703	1.3506 1.6568	1.8874	1.7159	1.7417	Ave		1.6949			0.0000	10.6		15.0			
Acenaphthene	0.9825 1.0658	0.8838 1.0336	1.0463	1.1258	1.0124	Ave		1.0214			0.0000	7.4		15.0			
Fluorene	1.4896 1.3834	0.9662 1.2871	1.3197	1.3886	1.2644	Ave		1.2999			0.0000	12.7		15.0			
Phenanthrene	2.1565 1.1836	1.0586 1.1536	1.1958	1.1594	1.1404	Qua	0.0002	0.8500	0.0102		0.0000				0.9997		0.9900
Anthracene	1.0455 1.1188	1.2005 1.2175	1.1643	1.1719	1.2102	Ave		1.1612			0.0000	5.3		15.0			
Carbazole	1.3254 1.0648	0.9055 1.0829	1.1357	1.0658	0.9905	Ave		1.0815			0.0000	12.1		15.0			
Fluoranthene	1.1179 1.2730	1.3921 1.3602	1.2694	1.3341	1.3364	Ave		1.2976			0.0000	7.0		15.0			
Pyrene	1.2897 1.1555	0.9972 1.1333	1.1447	1.1276	1.1177	Ave		1.1380			0.0000	7.5		15.0			
Benzo[a]anthracene	1.8552 1.1480	1.4389 1.1253	1.1508	1.0977	1.1349	LinF		1.1311			0.0000				0.9998		0.9900
Chrysene	1.1739 1.1646	0.9735 1.1563	1.1877	1.0757	1.1010	Ave		1.1190			0.0000	6.8		15.0			
Benzo[b]fluoranthene	0.7438 1.0730	0.9477 1.0842	1.1078	1.0038	1.1118	Ave		1.0103			0.0000	13.0		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1 Analy Batch No.: 136370

SDG No.: 68089459-1

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

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.0957 1.1960	1.0347 1.3382	1.1426	1.1475	1.0478	Ave		1.1432			0.0000	9.0		15.0			
Benzo[a]pyrene	1.0857 1.0737	0.9221 1.1530	1.0427	1.0583	0.9747	Ave		1.0443			0.0000	7.2		15.0			
Indeno[1,2,3-cd]pyrene	1.4093 0.9346	0.8576 1.0494	0.9853	0.8955	1.0192	Lin	0.0160	1.0375			0.0000				0.9958		0.9900
Dibenz(a,h)anthracene	1.3482 0.9834	0.8948 1.0265	0.9138	0.9357	0.9949	Lin	0.0112	1.0243			0.0000				0.9993		0.9900
Benzo[g,h,i]perylene	0.7587 0.9881	1.0764 1.0165	0.9898	1.0387	0.9838	Ave		0.9789			0.0000	10.5		15.0			
o-Terphenyl	0.2006 0.5933	0.7698 0.6744	0.6516	0.6045	0.6070	Lin	0.0172	0.6624			0.0000				0.9945		0.9900

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1 Analy Batch No.: 136370

SDG No.: 68089459-1

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

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136370/4	1CD11004.D
Level 2	IC 660-136370/5	1CD11005.D
Level 3	IC 660-136370/6	1CD11006.D
Level 4	IC 660-136370/7	1CD11007.D
Level 5	ICIS 660-136370/3	1CD11003.D
Level 6	IC 660-136370/8	1CD11008.D
Level 7	IC 660-136370/9	1CD11009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 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	1285 178326	6408 318955	33340	66803	132678	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Lin	558 117387	4547 221322	18585	42945	87061	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1050 109784	3598 201768	21228	38170	85663	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	1337 212811	5176 370532	39114	69442	156488	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	800 121274	3387 231163	21682	45560	90964	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	1213 157410	3703 287857	27348	56195	113606	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	3451 259782	7274 472306	47149	85752	182675	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	1673 245548	8249 498469	45907	86681	193854	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2121 233698	6222 443362	44777	78836	158666	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	1789 279401	9565 556889	50052	98679	214080	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	2372 307735	8697 619923	55349	104590	229647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	3412 305726	12549 615507	55643	101817	233188	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	2159 310162	8490 632502	57430	99776	226221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1499 299492	9159 576085	56470	93677	243941	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	2208 333825	10000 711099	58242	107089	229890	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1 Analy Batch No.: 136370

SDG No.: 68089459-1

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

Calibration Start Date: 04/11/2013 11:56 Calibration End Date: 04/11/2013 14:06 Calibration ID: 2882

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 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	2188 299708	8912 612644	53152	98767	213852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	2840 260884	8288 557635	50225	83577	223617	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Lin	2717 274497	8648 545458	46577	87325	218275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	1529 275805	10403 540151	50451	96936	215845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	321 130217	5289 276100	25692	44711	97236	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
LinF = Linear ISTD forced zero
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 11-APR-2013 11:56
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
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	ON-COL
								(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.675	3.675	(1.000)		245713	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)		179699	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)		320372	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)		97236	20.0000	19.0180
* 18 Chrysene-d12	240		7.645	7.645	(1.000)		410945	40.0000	
* 23 Perylene-d12	264		8.804	8.804	(1.000)		438804	40.0000	
2 Naphthalene	128		3.686	3.686	(1.003)		132678	20.0000	19.9755
3 2-Methylnaphthalene	142		4.116	4.116	(1.120)		87061	20.0000	21.0586
4 1-Methylnaphthalene	142		4.175	4.175	(1.136)		85663	20.0000	20.1908
5 Acenaphthylene	152		4.674	4.674	(0.981)		156488	20.0000	20.5512
7 Acenaphthene	154		4.780	4.780	(1.004)		90964	20.0000	19.3885
9 Fluorene	166		5.104	5.104	(1.072)		113606	20.0000	19.4543
11 Phenanthrene	178		5.721	5.721	(1.003)		182675	20.0000	17.6453
12 Anthracene	178		5.757	5.757	(1.009)		193854	20.0000	20.8428
13 Carbazole	167		5.863	5.863	(1.028)		158666	20.0000	18.3169
15 Fluoranthene	202		6.557	6.557	(1.150)		214080	20.0000	20.5986
16 Pyrene	202		6.721	6.721	(0.879)		229647	20.0000	19.6431
17 Benzo(a)anthracene	228		7.633	7.633	(0.998)		233188	20.0000	20.0156
19 Chrysene	228		7.663	7.663	(1.002)		226221	20.0000	19.6785
20 Benzo(b)fluoranthene	252		8.468	8.468	(0.962)		243941	20.0000	22.0102
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.964)		229890	20.0000	18.3309
22 Benzo(a)pyrene	252		8.751	8.751	(0.994)		213852	20.0000	18.6665
24 Indeno(1,2,3-cd)pyrene	276		9.927	9.927	(1.128)		223617	20.0000	19.9538(M)
25 Dibenzo(a,h)anthracene	278		9.945	9.945	(1.130)		218275	20.0000	19.6244
26 Benzo(g,h,i)perylene	276		10.262	10.262	(1.166)		215845	20.0000	20.1007

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11003.D

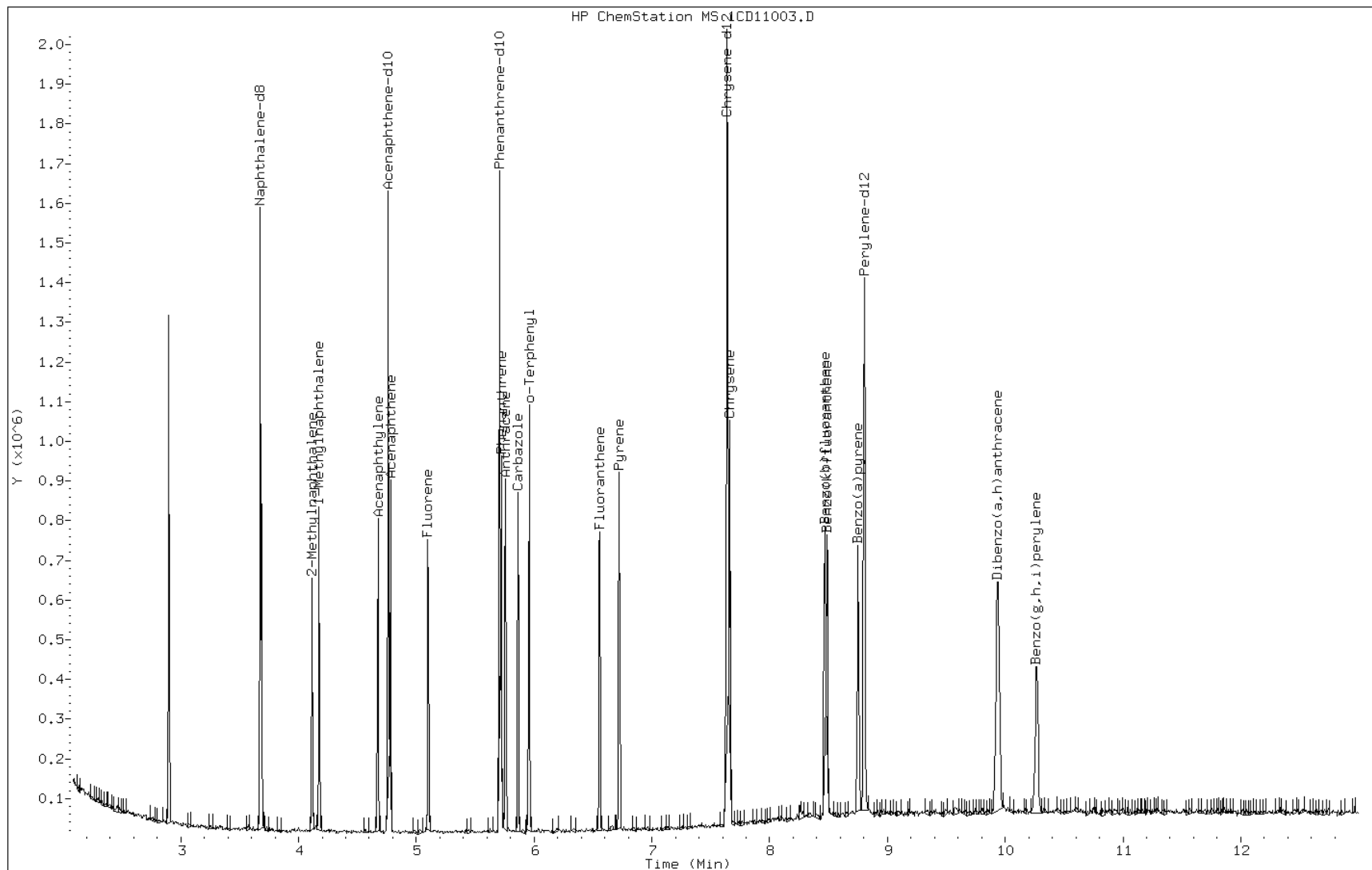
Date: 11-APR-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1531401

Operator: SCC

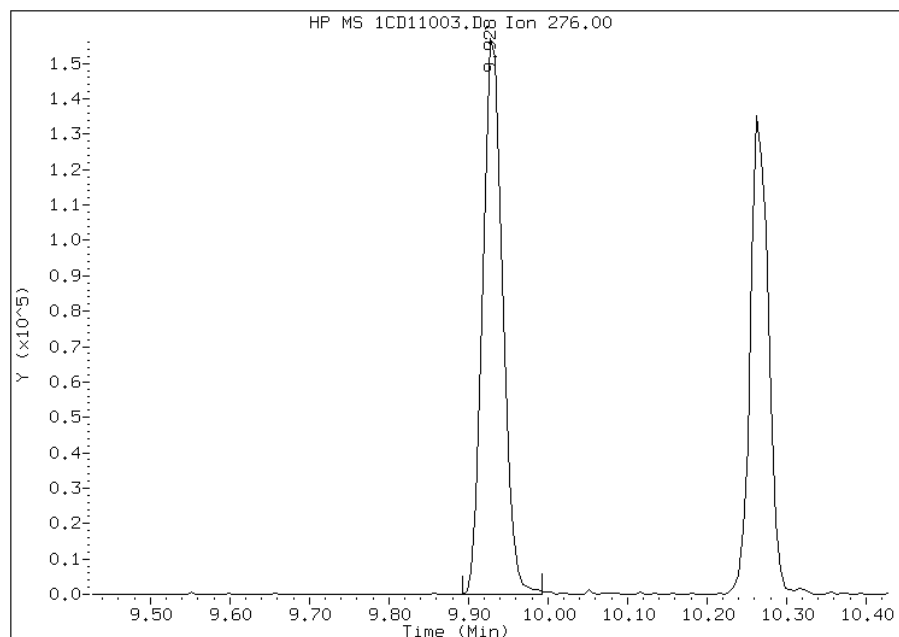


Manual Integration Report

Data File: 1CD11003.D
Inj. Date and Time: 11-APR-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

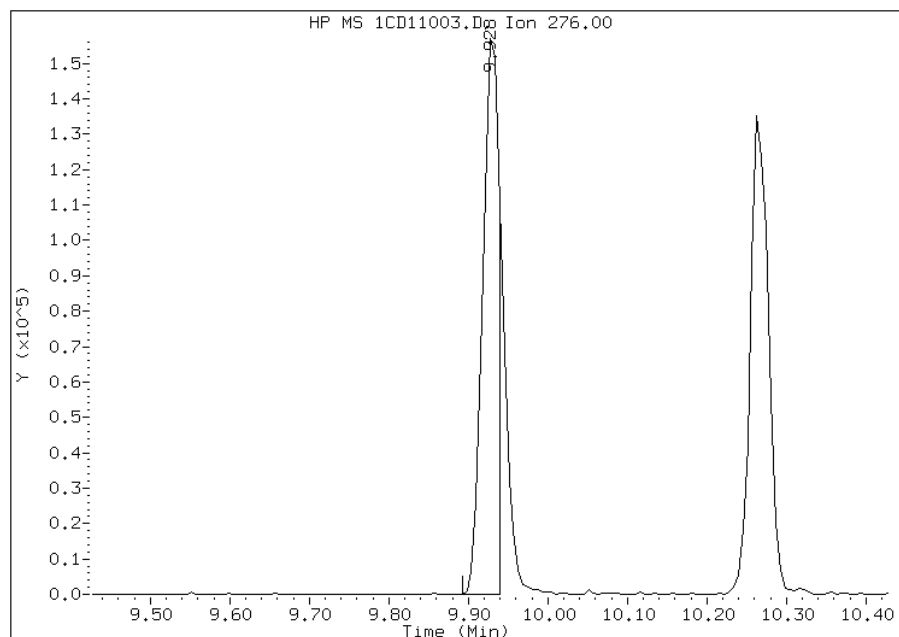
Processing Integration Results

RT: 9.93
Response: 271031
Amount: 23
Conc: 23



Manual Integration Results

RT: 9.93
Response: 223617
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 12:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11004.D
Lab Smp Id: IC-1531396
Inj Date : 11-APR-2013 12:35
Operator : SCC
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 11:56 Cal File: 1CD11003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
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	3.674	3.674	(1.000)	247033	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	162858	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	320053	40.0000	(H)
\$ 14 o-Terphenyl	230	5.980	5.980	(1.045)	321	0.20000	0.7502(Q)
* 18 Chrysene-d12	240	7.656	7.656	(1.000)	367836	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	403046	40.0000	
2 Naphthalene	128	3.686	3.686	(1.003)	1285	0.20000	0.1924(Q)
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	558	0.20000	0.1342(Q)
4 1-Methylnaphthalene	142	4.180	4.180	(1.138)	1050	0.20000	0.2461(Q)
5 Acenaphthylene	152	4.680	4.680	(0.983)	1337	0.20000	0.1937
7 Acenaphthene	154	4.786	4.786	(1.005)	800	0.20000	0.0720
9 Fluorene	166	5.110	5.110	(1.073)	1213	0.20000	0.2291
11 Phenanthrene	178	5.733	5.733	(1.002)	3451	0.20000	0.3336
12 Anthracene	178	5.768	5.768	(1.008)	1673	0.20000	0.1800(H)
13 Carbazole	167	5.880	5.880	(1.028)	2121	0.20000	0.2450
15 Fluoranthene	202	6.562	6.562	(1.147)	1789	0.20000	0.1723
16 Pyrene	202	6.733	6.733	(0.879)	2372	0.20000	0.2266
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	3412	0.20000	0.2031
19 Chrysene	228	7.674	7.674	(1.002)	2159	0.20000	0.2098
20 Benzo(b)fluoranthene	252	8.498	8.498	(0.963)	1499	0.20000	0.1472
21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	2208	0.20000	0.1916
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	2188	0.20000	0.2079
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.956	(1.128)	2840	0.20000	0.2759
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	2717	0.20000	0.2659
26 Benzo(g,h,i)perylene	276	10.286	10.286	(1.165)	1529	0.20000	0.1550(M)

QC Flag Legend

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

Data File: 1CD11004.D

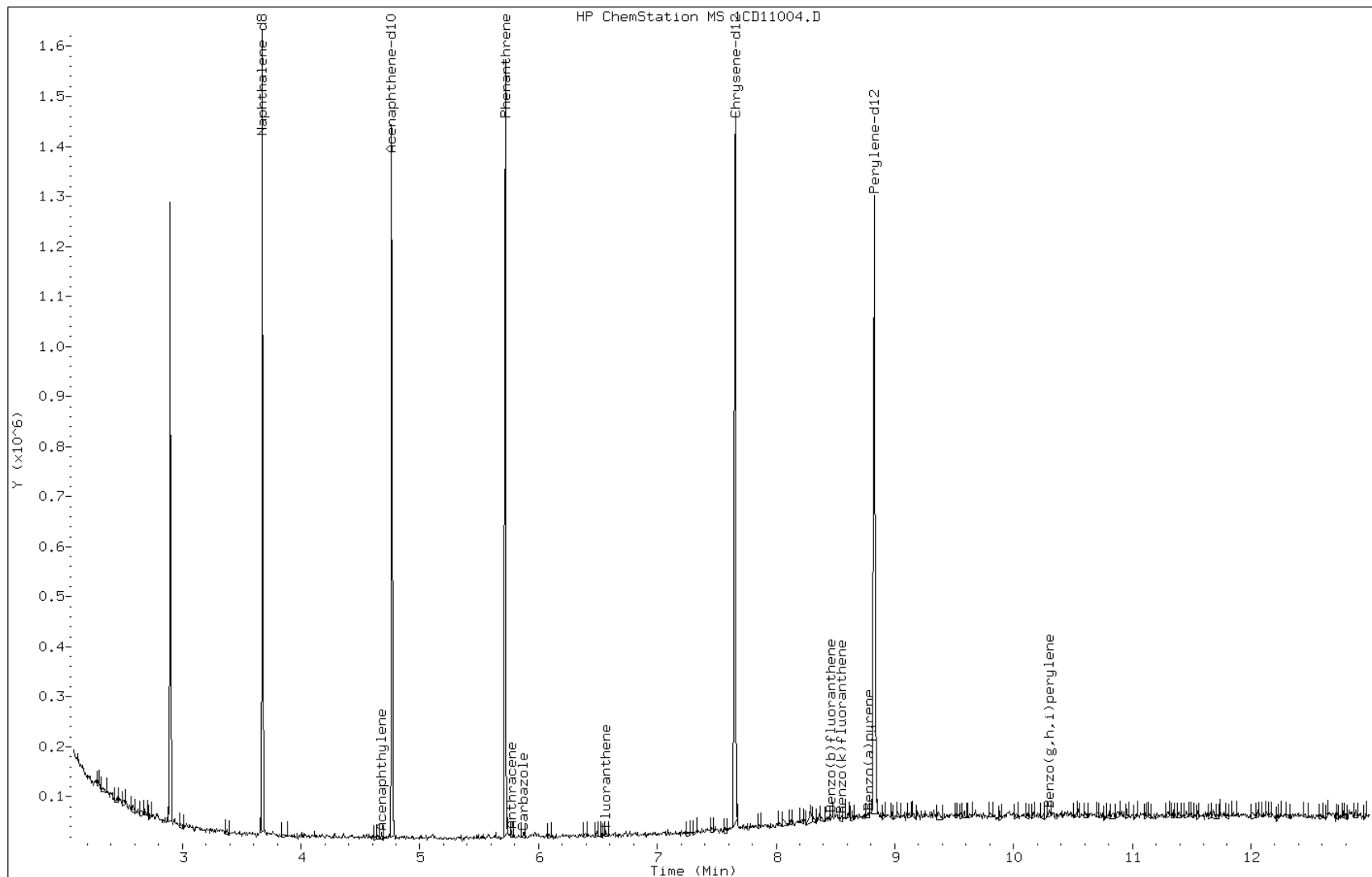
Date: 11-APR-2013 12:35

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC



Manual Integration Report

Data File: 1CD11004.D
Inj. Date and Time: 11-APR-2013 12:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/11/2013

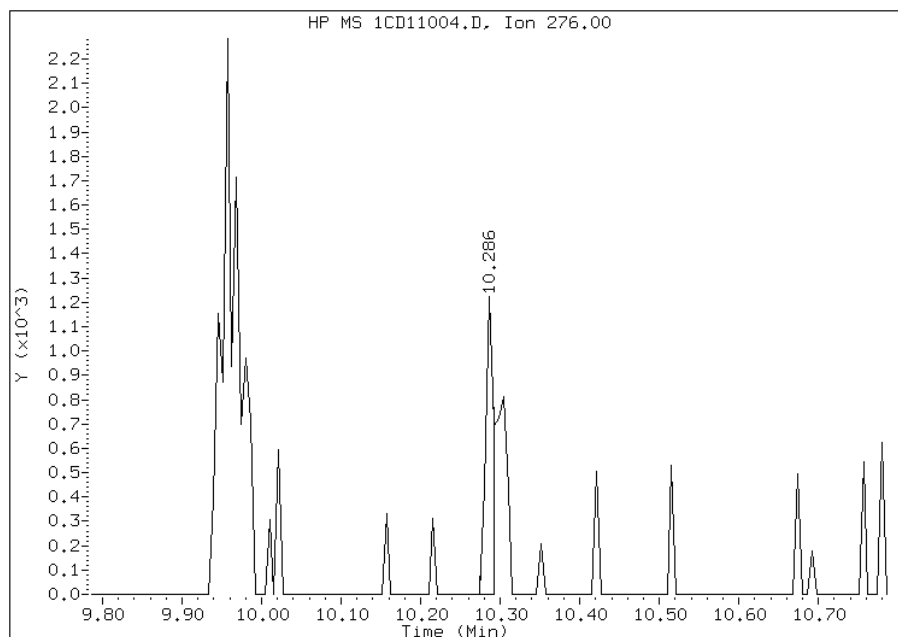
Processing Integration Results

RT: 10.29

Response: 832

Amount: 0

Conc: 0



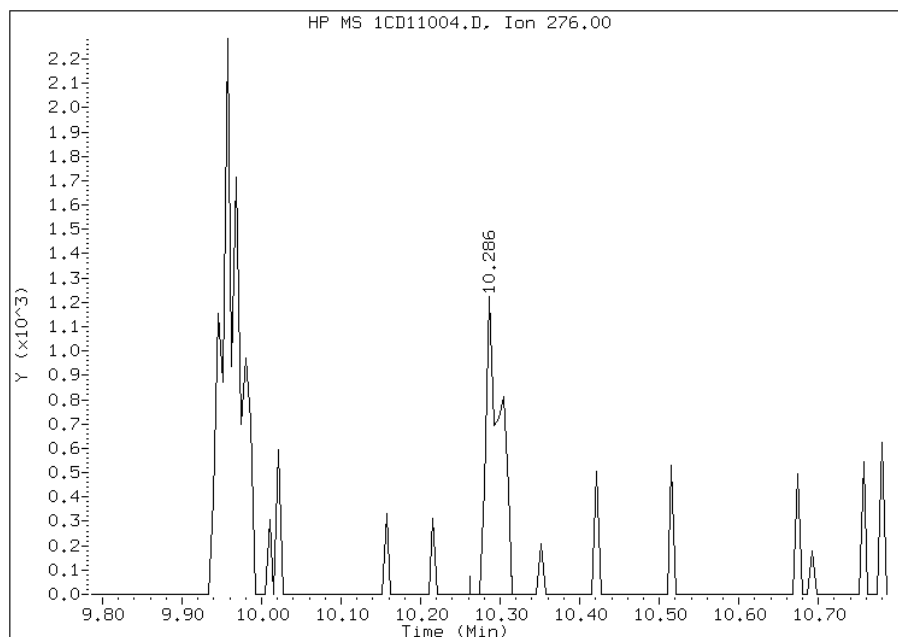
Manual Integration Results

RT: 10.29

Response: 1529

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11005.D
Lab Smp Id: IC-1531398
Inj Date : 11-APR-2013 12:53
Operator : SCC
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:35 Cal File: 1CD11004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.674	3.674	(1.000)	229800	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	153294	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	274841	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	5289	1.00000	1.8517(Q)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	348851	40.0000	
* 23 Perylene-d12	264	8.803	8.803	(1.000)	386589	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	6408	1.00000	1.0315(Q)
3 2-Methylnaphthalene	142	4.110	4.110	(1.118)	4547	1.00000	1.1760(Q)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	3598	1.00000	0.9067
5 Acenaphthylene	152	4.674	4.674	(0.981)	5176	1.00000	0.7968
7 Acenaphthene	154	4.780	4.780	(1.004)	3387	1.00000	0.7341
9 Fluorene	166	5.104	5.104	(1.072)	3703	1.00000	0.7433(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	7274	1.00000	0.8190(H)
12 Anthracene	178	5.757	5.757	(1.009)	8249	1.00000	1.0338
13 Carbazole	167	5.862	5.862	(1.028)	6222	1.00000	0.8372
15 Fluoranthene	202	6.556	6.556	(1.150)	9565	1.00000	1.0728
16 Pyrene	202	6.721	6.721	(0.880)	8697	1.00000	0.8763
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	12549	1.00000	1.1507
19 Chrysene	228	7.656	7.656	(1.002)	8490	1.00000	0.8699
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.962)	9159	1.00000	0.9380(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.964)	10000	1.00000	0.9050(H)
22 Benzo(a)pyrene	252	8.750	8.750	(0.994)	8912	1.00000	0.8829(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.127)	8288	1.00000	0.8394(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.129)	8648	1.00000	0.8825(MH)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	10403	1.00000	1.0996

QC Flag Legend

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

Data File: 1CD11005.D

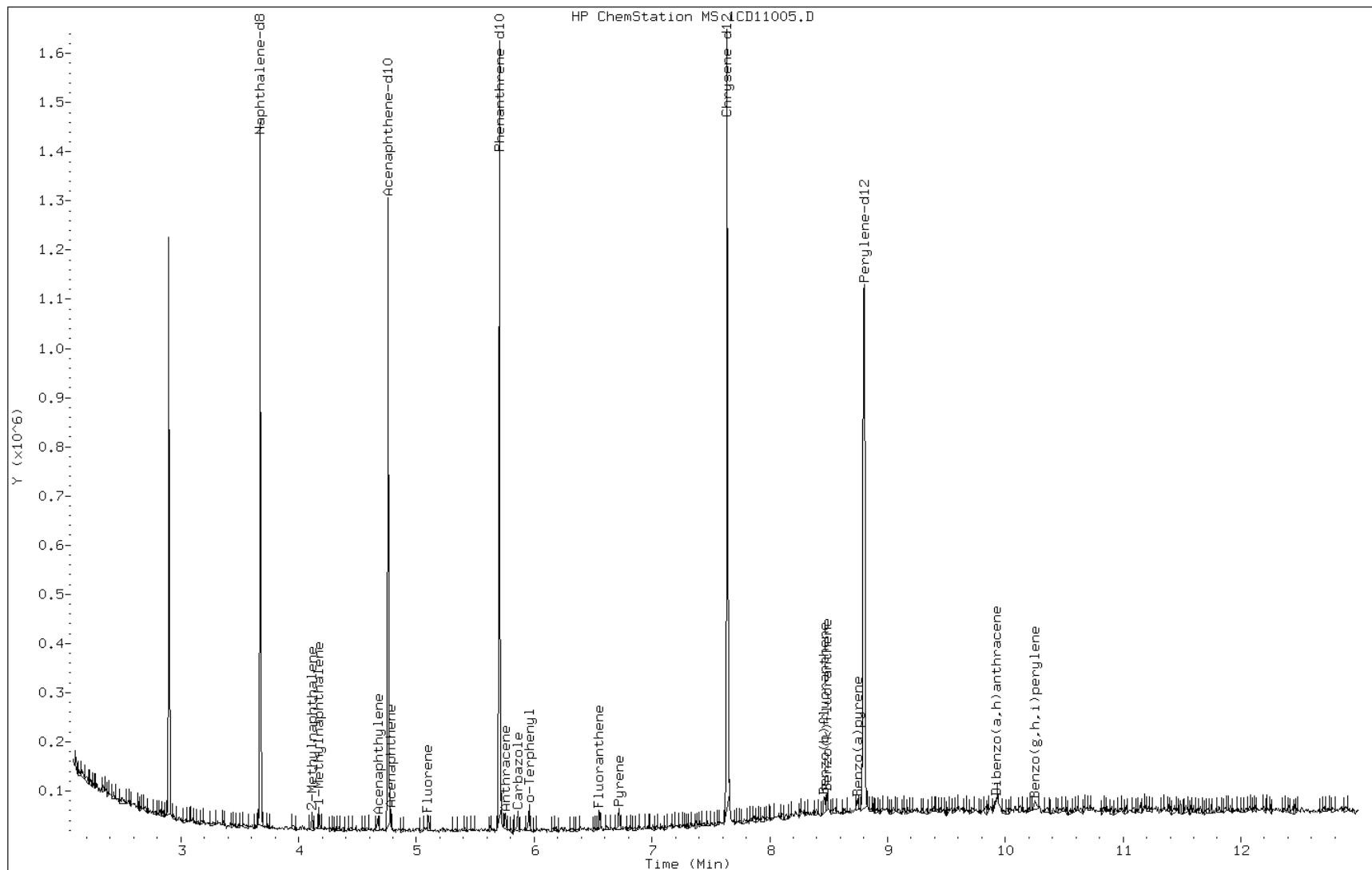
Date: 11-APR-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC

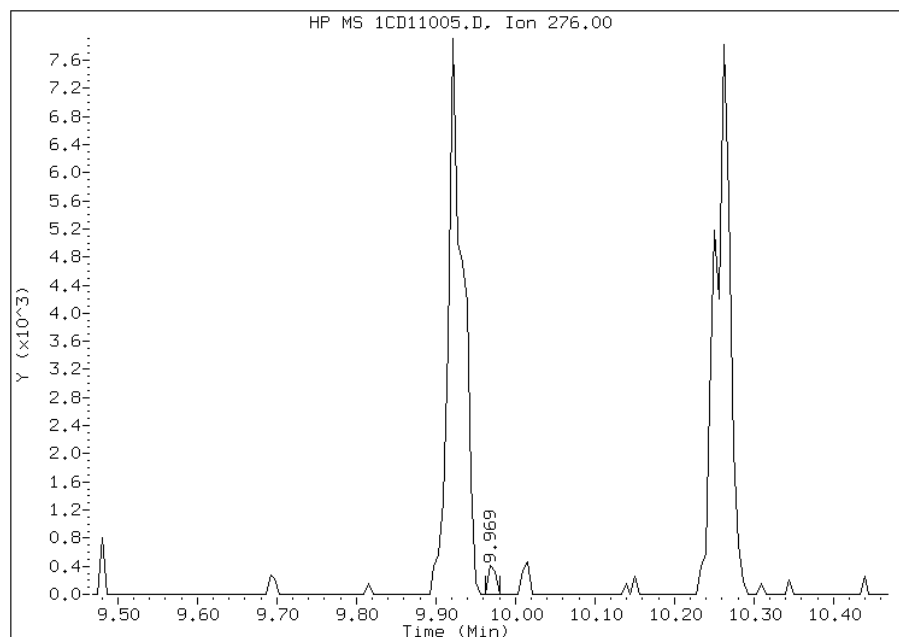


Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

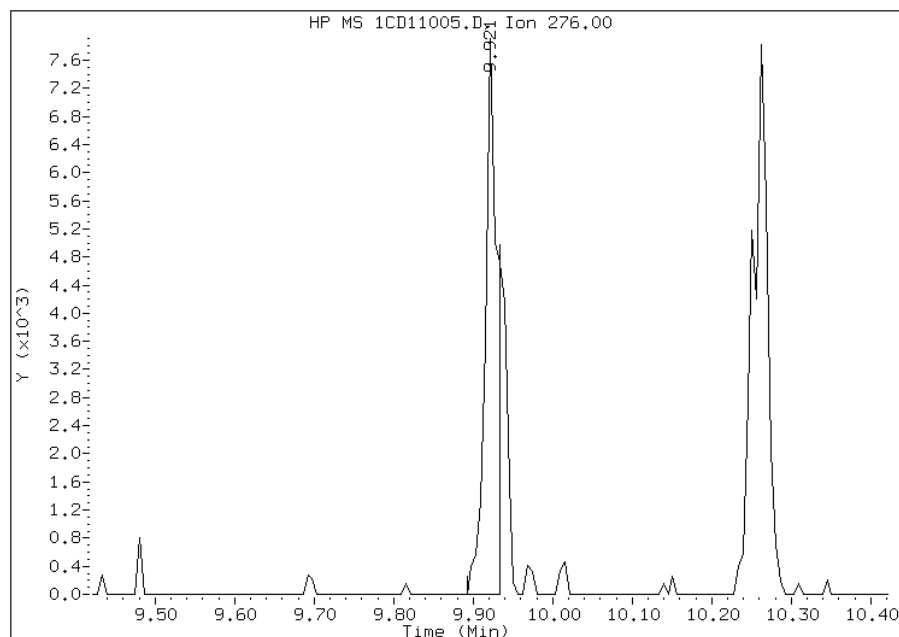
Processing Integration Results

RT: 9.97
Response: 260
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.92
Response: 8288
Amount: 1
Conc: 1



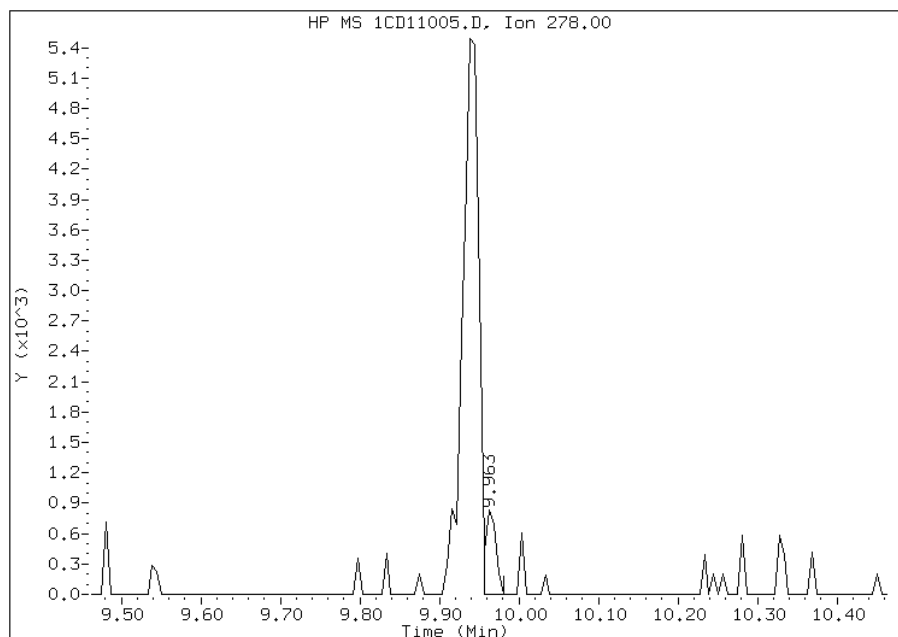
Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:34
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD11005.D
Inj. Date and Time: 11-APR-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/11/2013

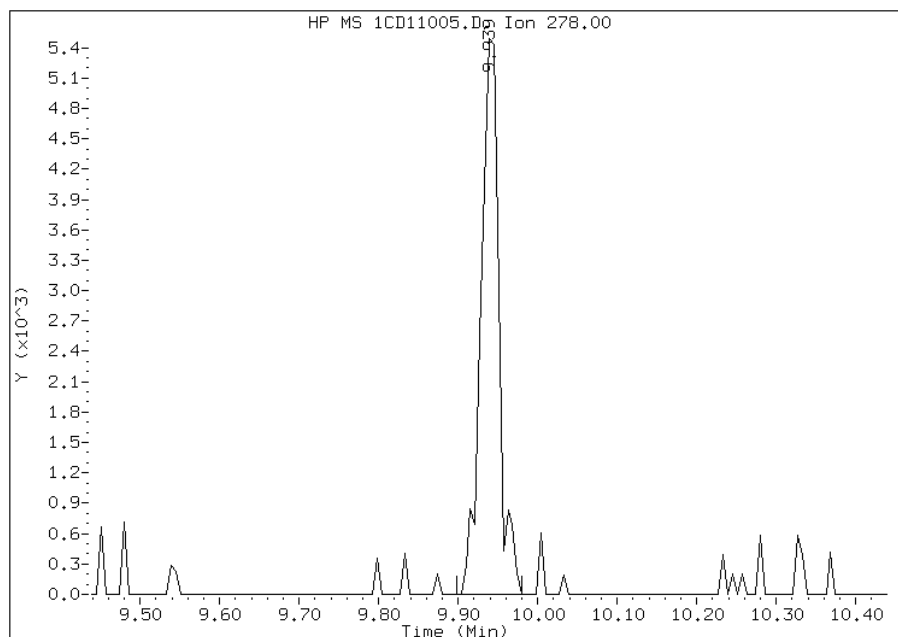
Processing Integration Results

RT: 9.96
Response: 764
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.94
Response: 8648
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:33
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11006.D
Lab Smp Id: IC-1531399
Inj Date : 11-APR-2013 13:11
Operator : SCC
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 12:53 Cal File: 1CD11005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
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	3.675	3.675	(1.000)	236973	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	165788	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	315427	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	25692	5.00000	5.6083
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	386829	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	407786	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	33340	5.00000	5.2046
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	18585	5.00000	4.6612
4 1-Methylnaphthalene	142	4.175	4.175	(1.136)	21228	5.00000	5.1880
5 Acenaphthylene	152	4.674	4.674	(0.981)	39114	5.00000	5.5677
7 Acenaphthene	154	4.780	4.780	(1.004)	21682	5.00000	4.9222
9 Fluorene	166	5.098	5.098	(1.070)	27348	5.00000	5.0761(Q)
11 Phenanthrene	178	5.721	5.721	(1.003)	47149	5.00000	4.6257(H)
12 Anthracene	178	5.757	5.757	(1.009)	45907	5.00000	5.0132
13 Carbazole	167	5.863	5.863	(1.028)	44777	5.00000	5.2502
15 Fluoranthene	202	6.551	6.551	(1.148)	50052	5.00000	4.8914
16 Pyrene	202	6.721	6.721	(0.880)	55349	5.00000	5.0294
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	55643	5.00000	4.9797
19 Chrysene	228	7.657	7.657	(1.002)	57430	5.00000	5.3071
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	56470	5.00000	5.4827(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	58242	5.00000	4.9973(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	53152	5.00000	4.9924(H)
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.921	(1.128)	50225	5.00000	4.8225(MH)
25 Dibenzo(a,h)anthracene	278	9.927	9.927	(1.128)	46577	5.00000	4.5061(H)
26 Benzo(g,h,i)perylene	276	10.251	10.251	(1.165)	50451	5.00000	5.0556(H)

QC Flag Legend

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

Data File: 1CD11006.D

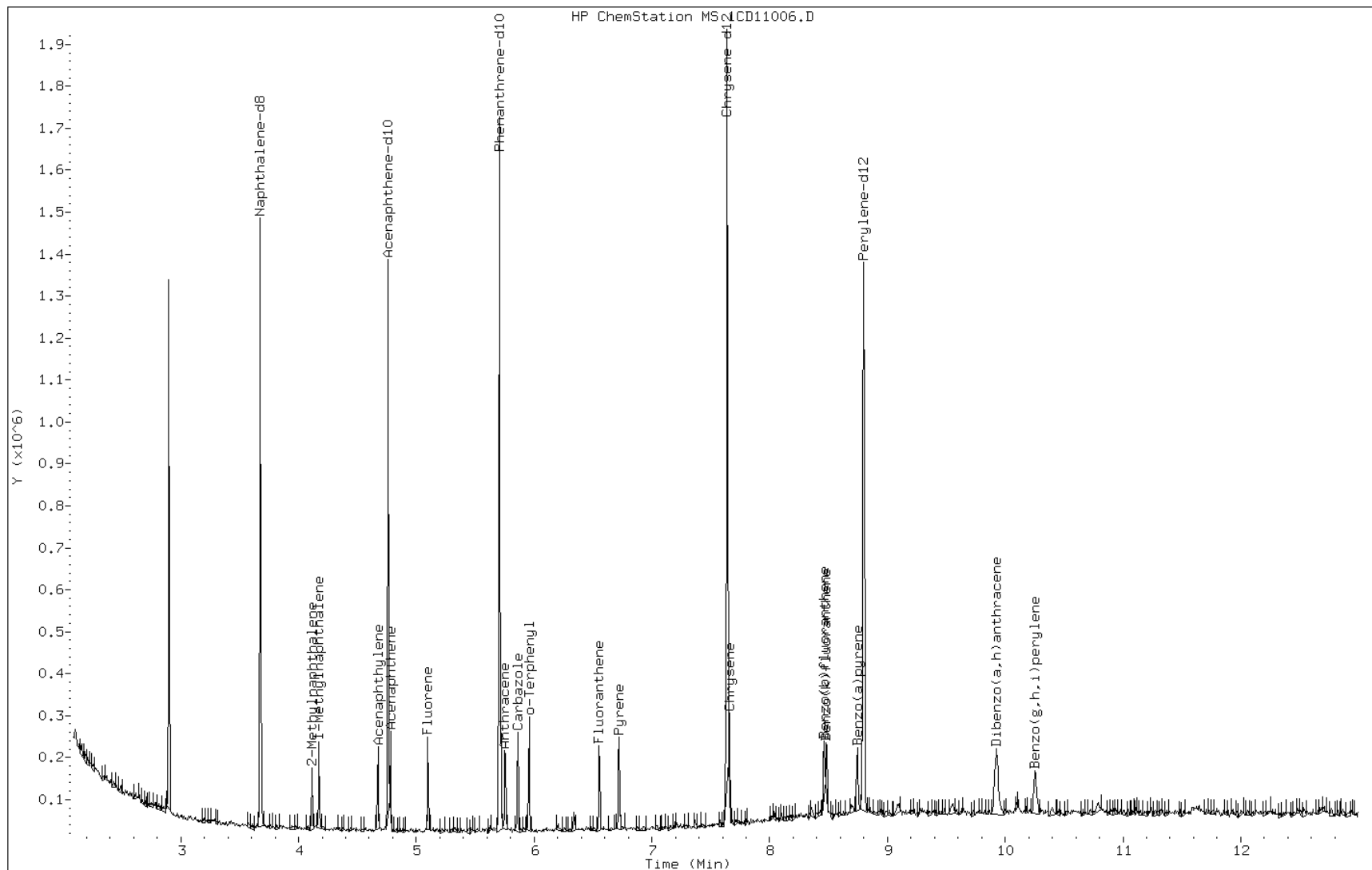
Date: 11-APR-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531399

Operator: SCC

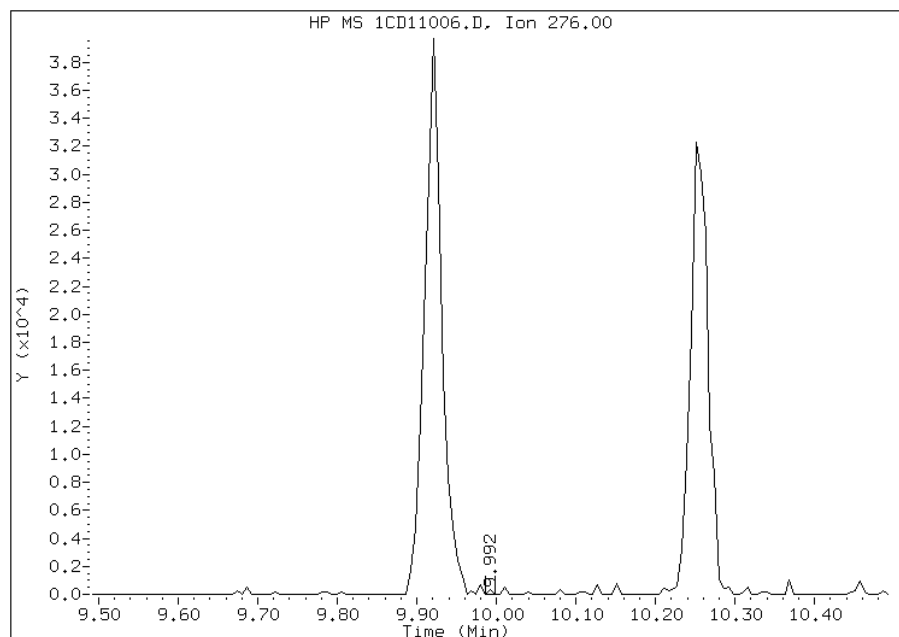


Manual Integration Report

Data File: 1CD11006.D
Inj. Date and Time: 11-APR-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

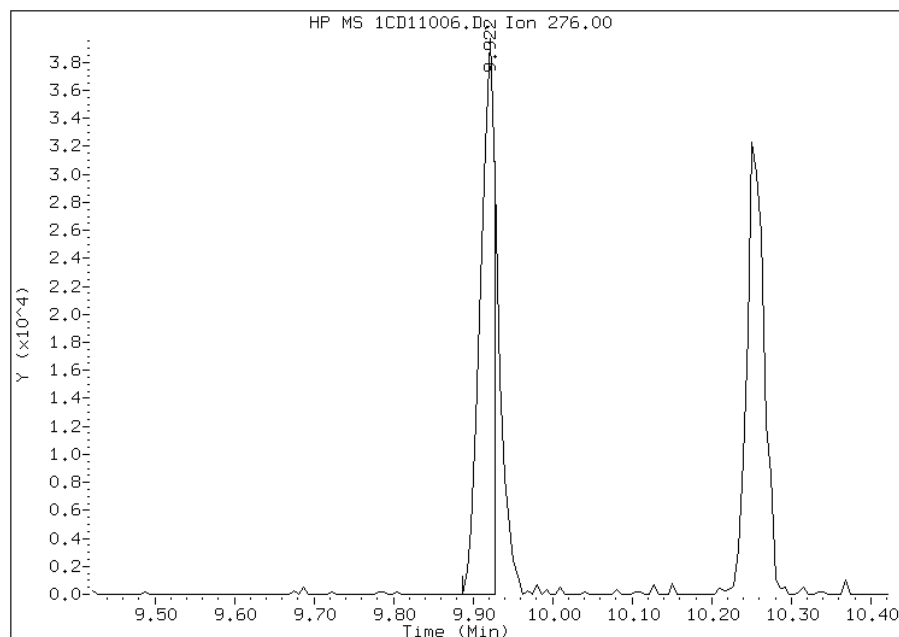
Processing Integration Results

RT: 9.99
Response: 108
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.92
Response: 50225
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:35
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11007.D
Lab Smp Id: IC-1531400
Inj Date : 11-APR-2013 13:30
Operator : SCC
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:11 Cal File: 1CD11006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
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	ON-COL
								(ug/ml)	(ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.674	3.674	(1.000)		246668	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)		161880	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)		295862	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)		44711	10.0000	9.8155
* 18 Chrysene-d12	240		7.639	7.639	(1.000)		371008	40.0000	
* 23 Perylene-d12	264		8.798	8.798	(1.000)		373300	40.0000	(H)
2 Naphthalene	128		3.686	3.686	(1.003)		66803	10.0000	10.0187
3 2-Methylnaphthalene	142		4.116	4.116	(1.120)		42945	10.0000	10.3474
4 1-Methylnaphthalene	142		4.174	4.174	(1.136)		38170	10.0000	8.9618
5 Acenaphthylene	152		4.674	4.674	(0.981)		69442	10.0000	10.1235
7 Acenaphthene	154		4.780	4.780	(1.004)		45560	10.0000	10.7277
9 Fluorene	166		5.098	5.098	(1.070)		56195	10.0000	10.6823
11 Phenanthrene	178		5.721	5.721	(1.003)		85752	10.0000	8.9693(H)
12 Anthracene	178		5.757	5.757	(1.009)		86681	10.0000	10.0918
13 Carbazole	167		5.863	5.863	(1.028)		78836	10.0000	9.8550
15 Fluoranthene	202		6.551	6.551	(1.148)		98679	10.0000	10.2813
16 Pyrene	202		6.721	6.721	(0.880)		104590	10.0000	9.9092
17 Benzo(a)anthracene	228		7.633	7.633	(0.999)		101817	10.0000	9.6151
19 Chrysene	228		7.657	7.657	(1.002)		99776	10.0000	9.6136
20 Benzo(b)fluoranthene	252		8.462	8.462	(0.962)		93677	10.0000	9.9354(H)
21 Benzo(k)fluoranthene	252		8.486	8.486	(0.965)		107089	10.0000	10.0374(H)
22 Benzo(a)pyrene	252		8.745	8.745	(0.994)		98767	10.0000	10.1338(H)
24 Indeno(1,2,3-cd)pyrene	276		9.927	9.927	(1.128)		83577	10.0000	8.7663(MH)
25 Dibenzo(a,h)anthracene	278		9.939	9.939	(1.130)		87325	10.0000	9.2288(H)
26 Benzo(g,h,i)perylene	276		10.256	10.256	(1.166)		96936	10.0000	10.6113(H)

QC Flag Legend

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

Data File: 1CD11007.D

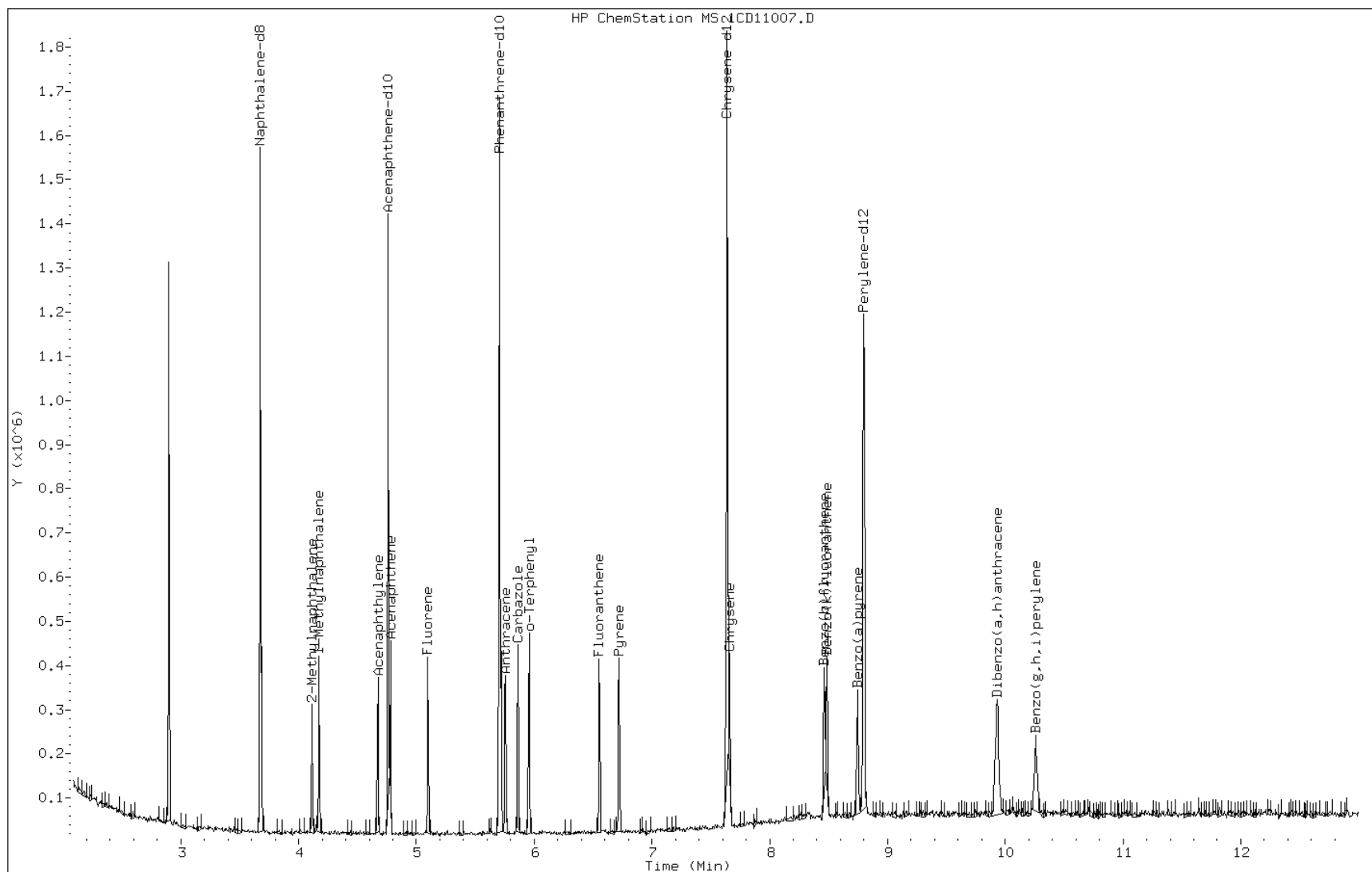
Date: 11-APR-2013 13:30

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC

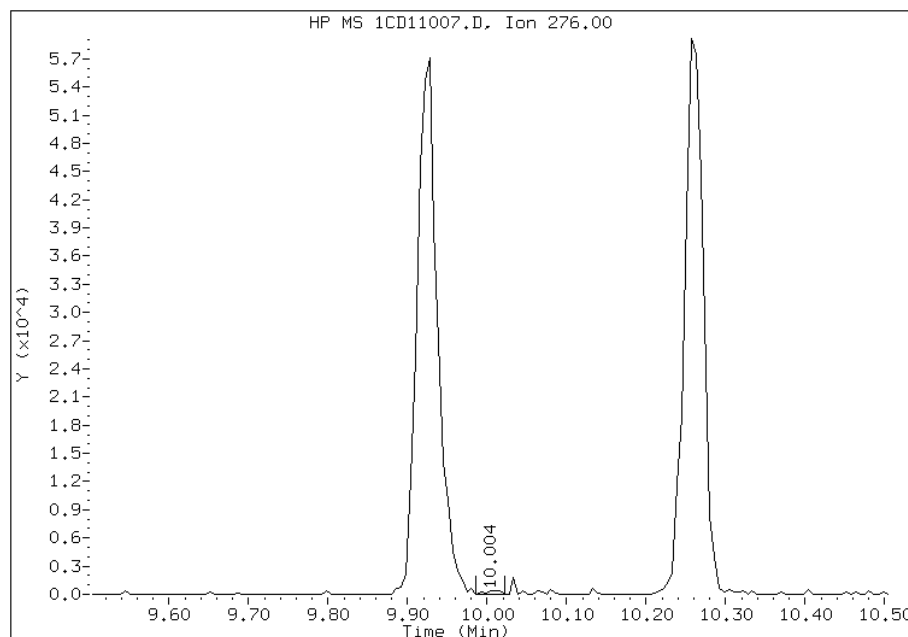


Manual Integration Report

Data File: 1CD11007.D
Inj. Date and Time: 11-APR-2013 13:30
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

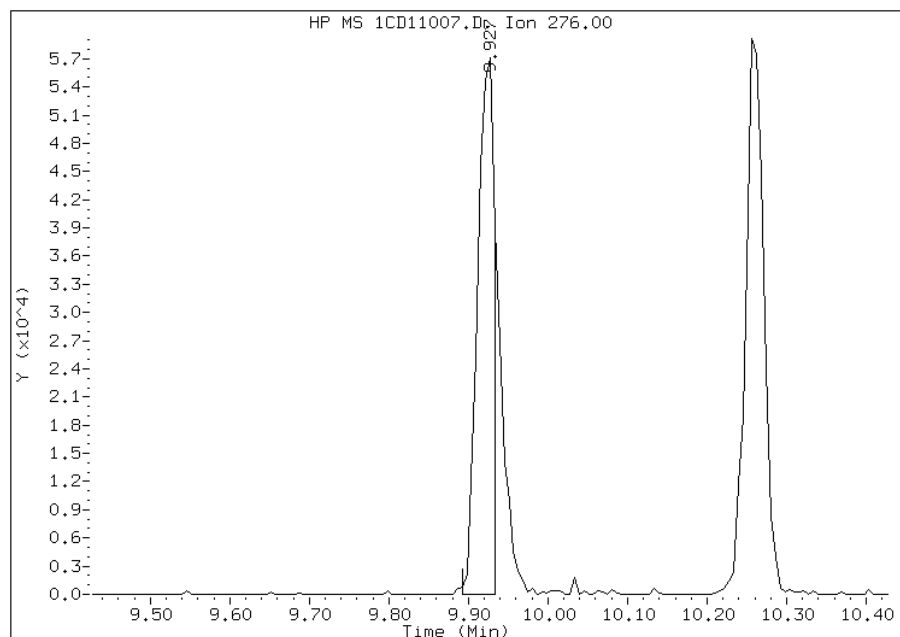
Processing Integration Results

RT: 10.00
Response: 600
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 83577
Amount: 9
Conc: 9



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11008.D
 Lab Smp Id: IC-1531402
 Inj Date : 11-APR-2013 13:48
 Operator : SCC
 Smp Info : IC-1531402
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
 Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
 Cal Date : 11-APR-2013 13:30 Cal File: 1CD11007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 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	3.674	3.674	(1.000)	219235	40.0000	
* 6 Acenaphthene-d10	164	4.762	4.762	(1.000)	151711	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	292639	40.0000	
\$ 14 o-Terphenyl	230	5.956	5.956	(1.044)	130217	30.0000	27.5608
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	355096	40.0000	
* 23 Perylene-d12	264	8.797	8.797	(1.000)	372168	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	178326	30.0000	30.0907
3 2-Methylnaphthalene	142	4.115	4.115	(1.120)	117387	30.0000	31.8232
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	109784	30.0000	29.0014
5 Acenaphthylene	152	4.674	4.674	(0.981)	212811	30.0000	33.1039
7 Acenaphthene	154	4.780	4.780	(1.004)	121274	30.0000	30.6855
9 Fluorene	166	5.098	5.098	(1.070)	157410	30.0000	31.9283
11 Phenanthrene	178	5.721	5.721	(1.003)	259782	30.0000	27.4715(H)
12 Anthracene	178	5.756	5.756	(1.009)	245548	30.0000	28.9028
13 Carbazole	167	5.862	5.862	(1.028)	233698	30.0000	29.5356
15 Fluoranthene	202	6.556	6.556	(1.150)	279401	30.0000	29.4314
16 Pyrene	202	6.721	6.721	(0.880)	307735	30.0000	30.4624
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	305726	30.0000	30.4344
19 Chrysene	228	7.662	7.662	(1.003)	310162	30.0000	31.2239
20 Benzo(b)fluoranthene	252	8.462	8.462	(0.962)	299492	30.0000	31.8608(H)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	333825	30.0000	31.3844(H)
22 Benzo(a)pyrene	252	8.745	8.745	(0.994)	299708	30.0000	30.8447(H)
24 Indeno(1,2,3-cd)pyrene	276	9.927	9.927	(1.128)	260884	30.0000	27.4473(MH)
25 Dibenzo(a,h)anthracene	278	9.939	9.939	(1.130)	274497	30.0000	29.0980(H)
26 Benzo(g,h,i)perylene	276	10.262	10.262	(1.166)	275805	30.0000	30.2834(H)

QC Flag Legend

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

Data File: 1CD11008.D

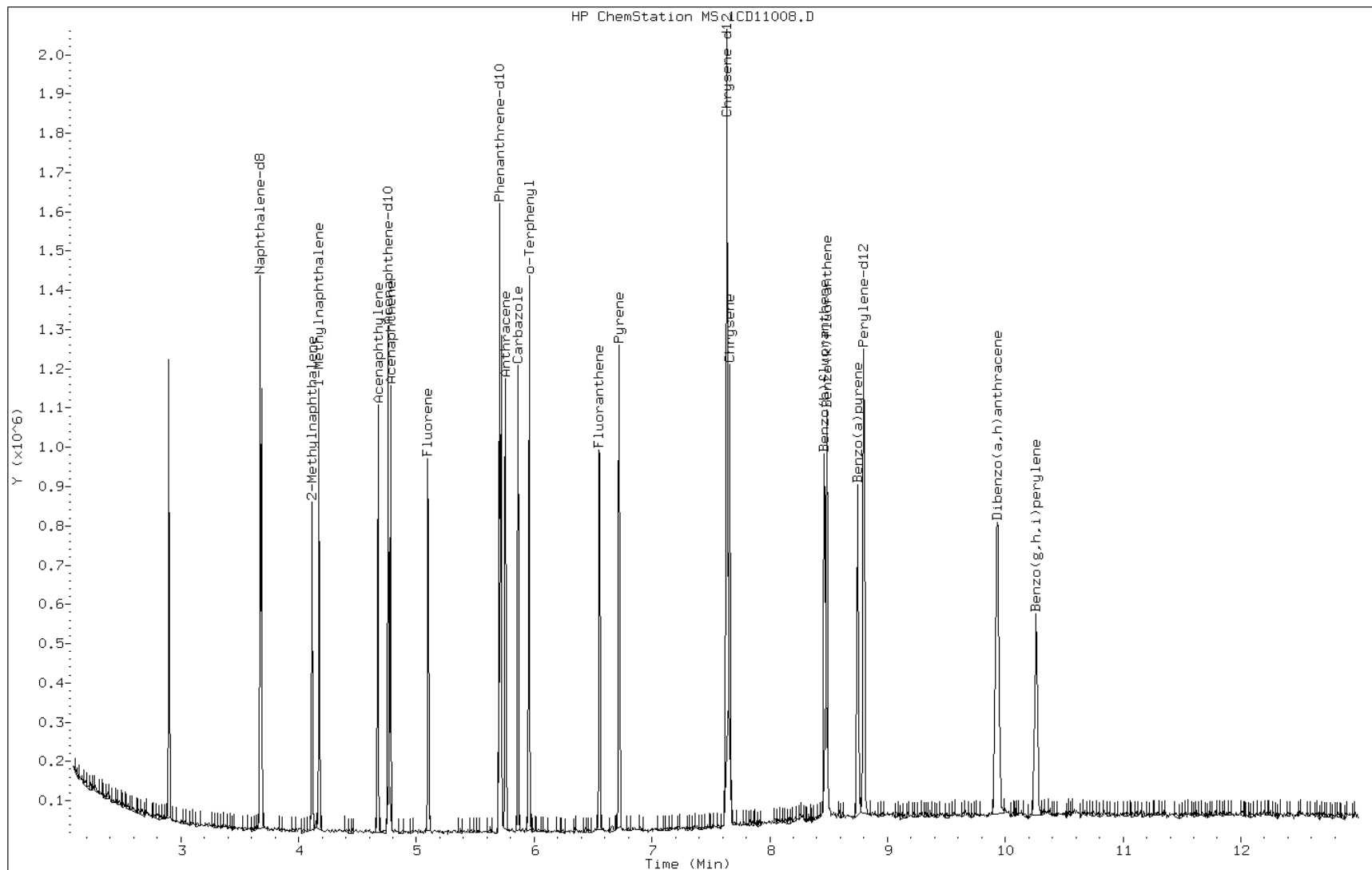
Date: 11-APR-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC

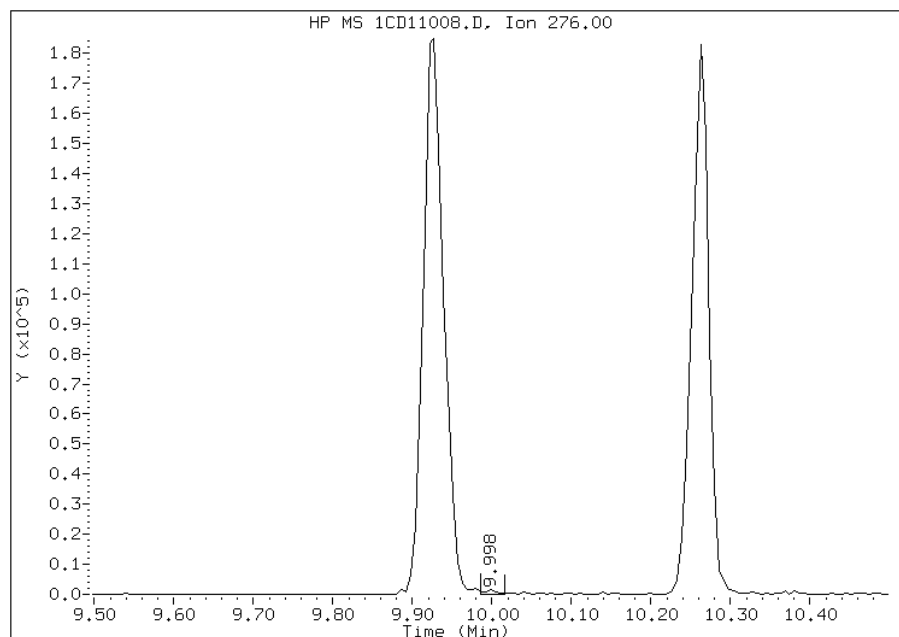


Manual Integration Report

Data File: 1CD11008.D
Inj. Date and Time: 11-APR-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

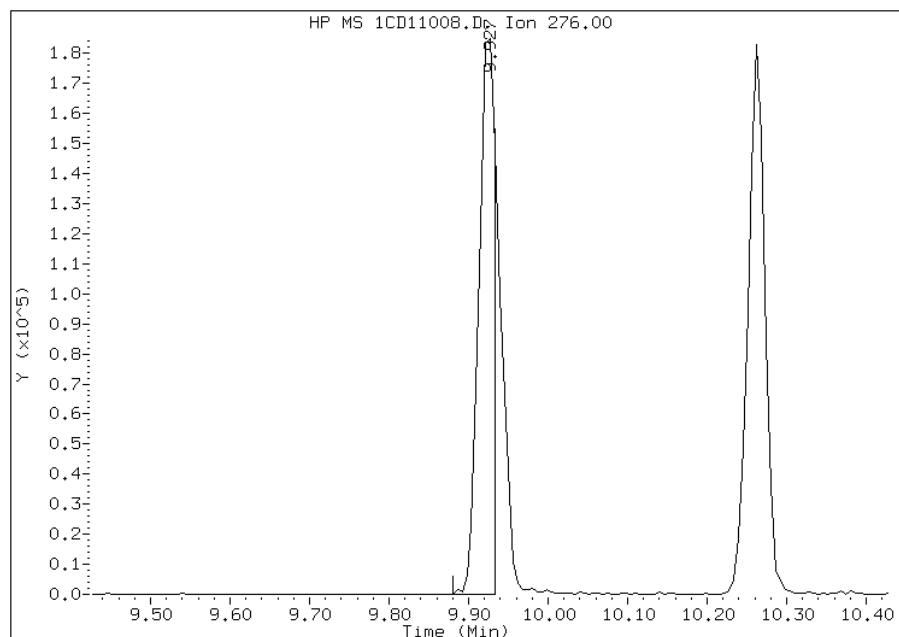
Processing Integration Results

RT: 10.00
Response: 1705
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 260884
Amount: 27
Conc: 27



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:36
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11009.D
Lab Smp Id: IC-1531403
Inj Date : 11-APR-2013 14:06
Operator : SCC
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:38 BSMC5973.i Quant Type: ISTD
Cal Date : 11-APR-2013 13:48 Cal File: 1CD11008.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
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	3.674	3.674	(1.000)	245399	40.0000	
* 6 Acenaphthene-d10	164	4.763	4.763	(1.000)	178913	40.0000	
* 10 Phenanthrene-d10	188	5.704	5.704	(1.000)	327530	40.0000	
\$ 14 o-Terphenyl	230	5.957	5.957	(1.044)	276100	50.0000	51.5953(A)
* 18 Chrysene-d12	240	7.639	7.639	(1.000)	437594	40.0000	
* 23 Perylene-d12	264	8.798	8.798	(1.000)	425092	40.0000	(H)
2 Naphthalene	128	3.686	3.686	(1.003)	318955	50.0000	48.0823
3 2-Methylnaphthalene	142	4.116	4.116	(1.120)	221322	50.0000	53.6026(A)
4 1-Methylnaphthalene	142	4.174	4.174	(1.136)	201768	50.0000	47.6178
5 Acenaphthylene	152	4.674	4.674	(0.981)	370532	50.0000	48.8750
7 Acenaphthene	154	4.780	4.780	(1.004)	231163	50.0000	49.6697
9 Fluorene	166	5.104	5.104	(1.072)	287857	50.0000	49.5103
11 Phenanthrene	178	5.721	5.721	(1.003)	472306	50.0000	44.6250(H)
12 Anthracene	178	5.757	5.757	(1.009)	498469	50.0000	52.4232(A)
13 Carbazole	167	5.863	5.863	(1.028)	443362	50.0000	50.0646(A)
15 Fluoranthene	202	6.557	6.557	(1.150)	556889	50.0000	52.4123(A)
16 Pyrene	202	6.721	6.721	(0.880)	619923	50.0000	49.7966
17 Benzo(a)anthracene	228	7.633	7.633	(0.999)	615507	50.0000	49.8010
19 Chrysene	228	7.662	7.662	(1.003)	632502	50.0000	51.6696(A)
20 Benzo(b)fluoranthene	252	8.468	8.468	(0.963)	576085	50.0000	53.6554(AH)
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	711099	50.0000	58.5305(AH)
22 Benzo(a)pyrene	252	8.751	8.751	(0.995)	612644	50.0000	55.2010(AH)
24 Indeno(1,2,3-cd)pyrene	276	9.933	9.933	(1.129)	557635	50.0000	51.3640(AMH)
25 Dibenzo(a,h)anthracene	278	9.945	9.945	(1.130)	545458	50.0000	50.6224(AH)
26 Benzo(g,h,i)perylene	276	10.268	10.268	(1.167)	540151	50.0000	51.9247(AH)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD11009.D

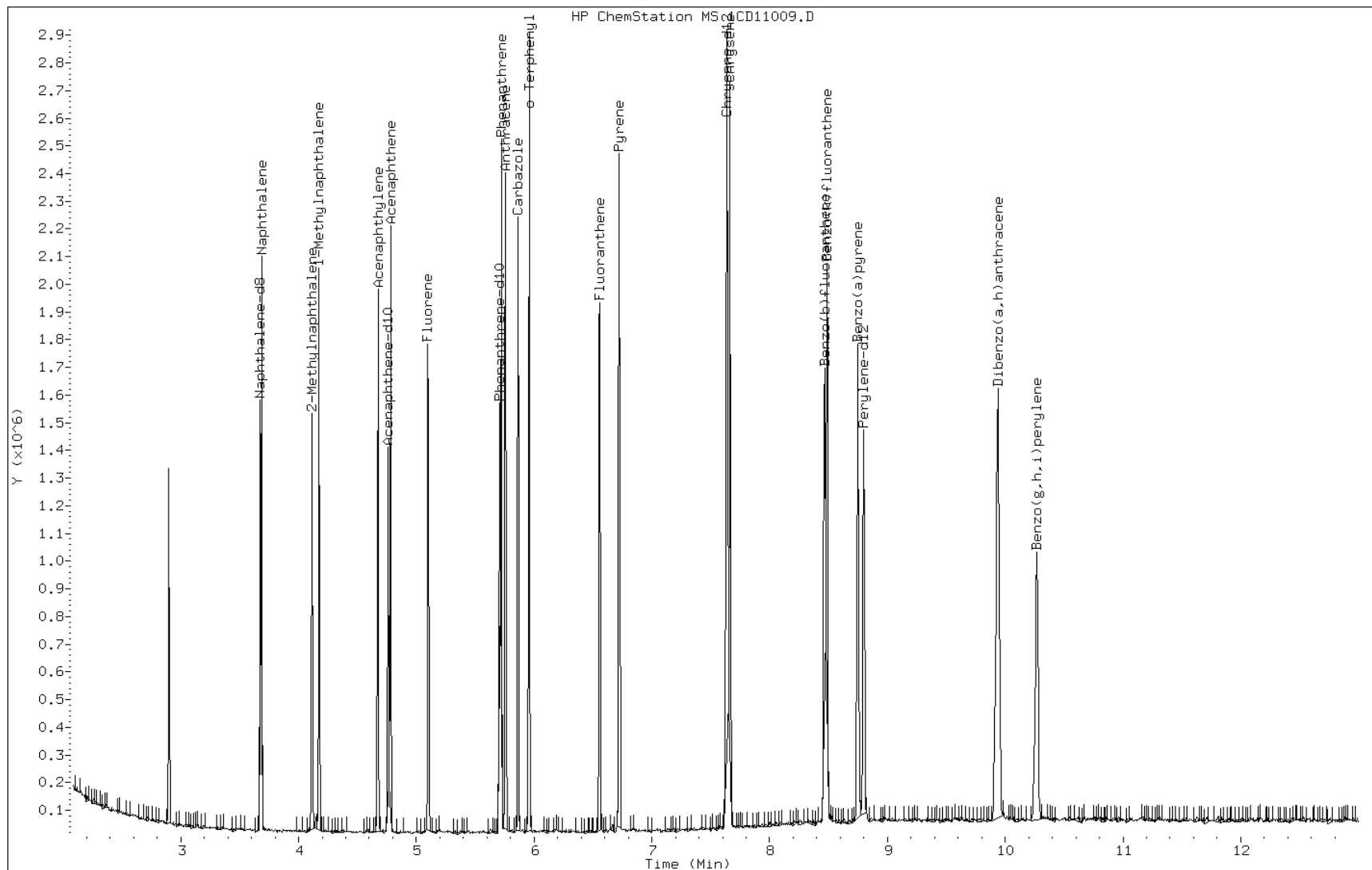
Date: 11-APR-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC

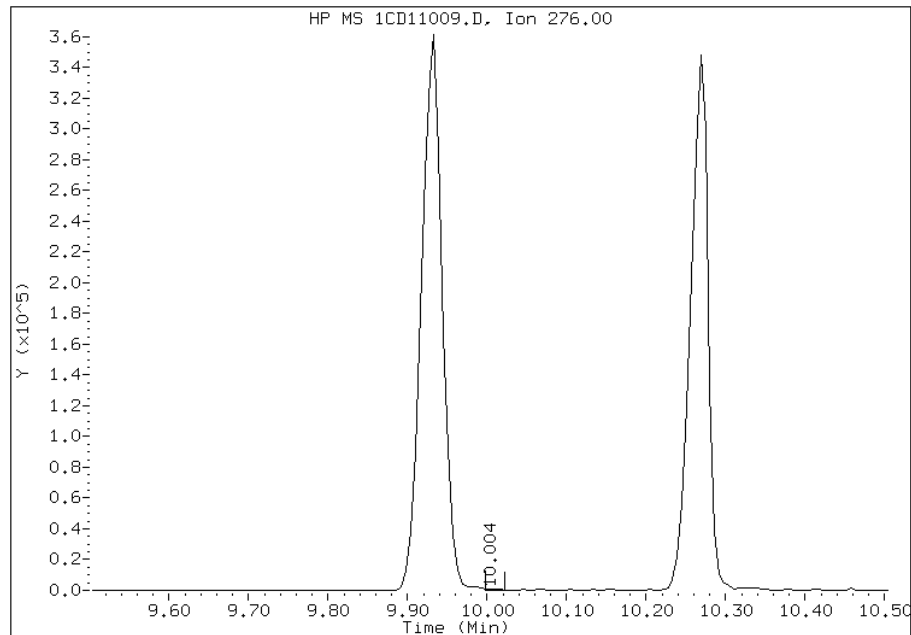


Manual Integration Report

Data File: 1CD11009.D
Inj. Date and Time: 11-APR-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

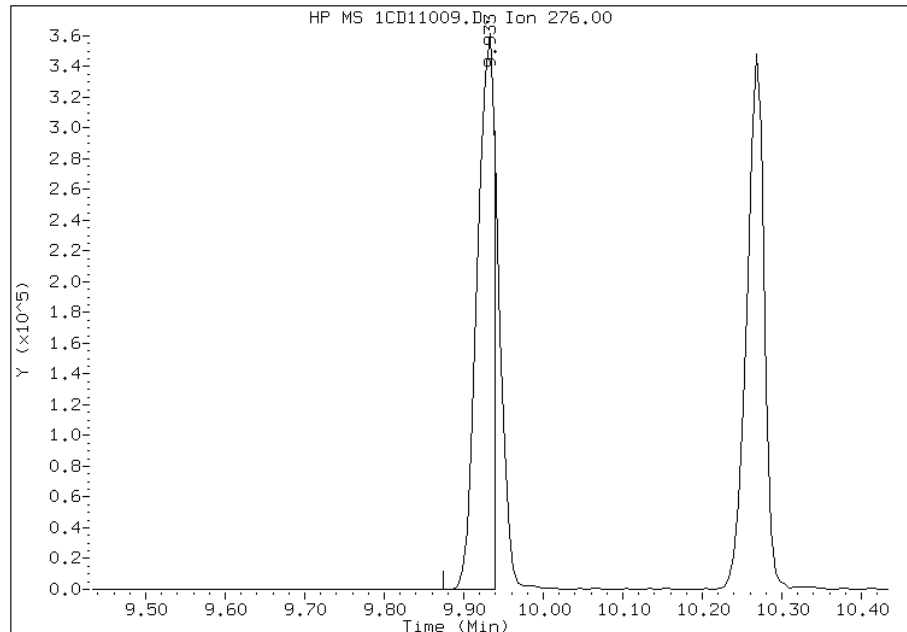
Processing Integration Results

RT: 10.00
Response: 955
Amount: 0
Conc: 0



Manual Integration Results

RT: 9.93
Response: 557635
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:37
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89459-1 Analy Batch No.: 136164

SDG No.: 68089459-1

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.: 680-89459-1 Analy Batch No.: 136164

SDG No.: 68089459-1

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.: 680-89459-1 Analy Batch No.: 136164

SDG No.: 68089459-1

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.: 680-89459-1 Analy Batch No.: 136164

SDG No.: 68089459-1

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 Inst ID: BSMSD.i
 Smp Info : IC-1531396
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 5 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(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

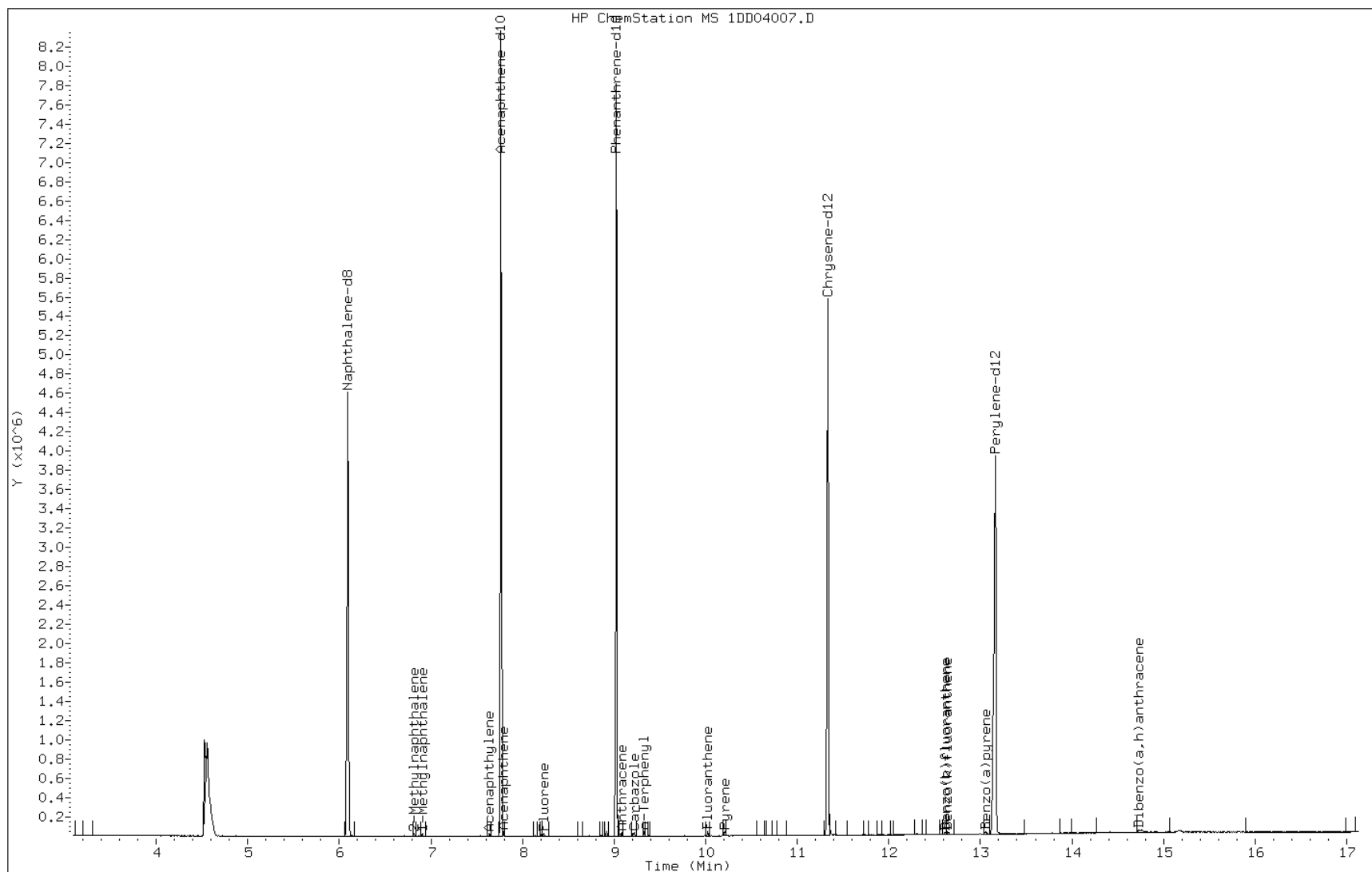
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC

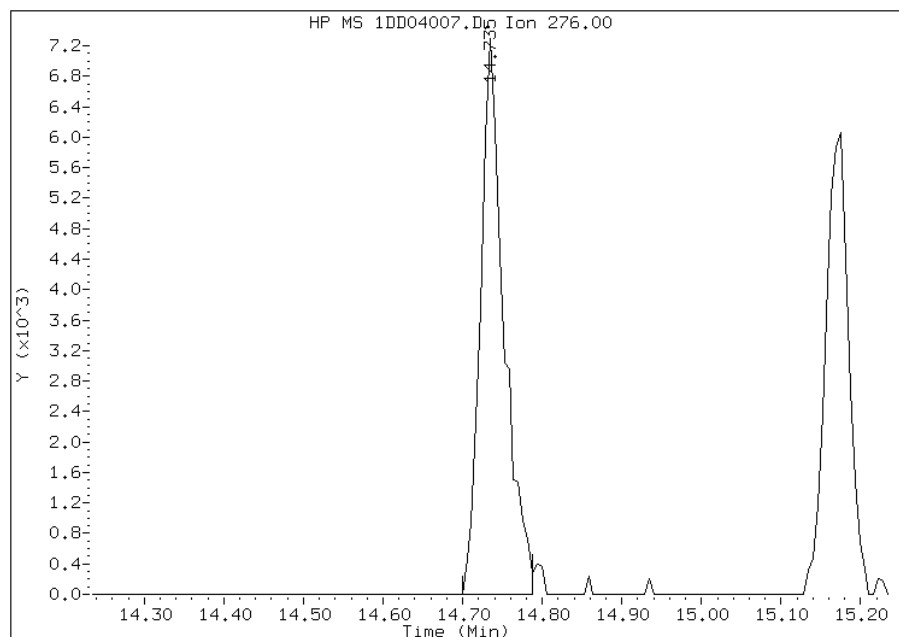


Manual Integration Report

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

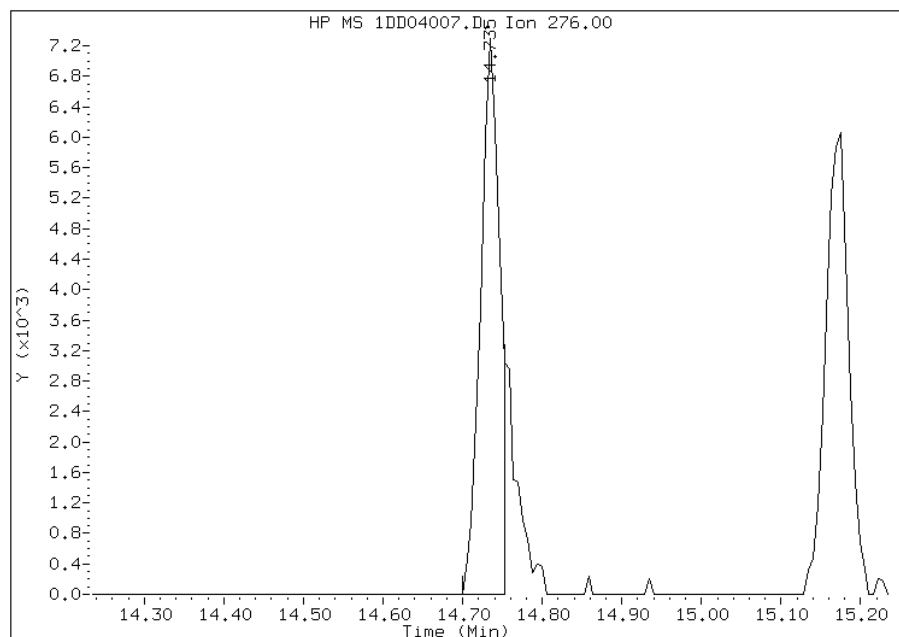
Processing Integration Results

RT: 14.73
Response: 14910
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.73
Response: 12106
Amount: 0
Conc: 0



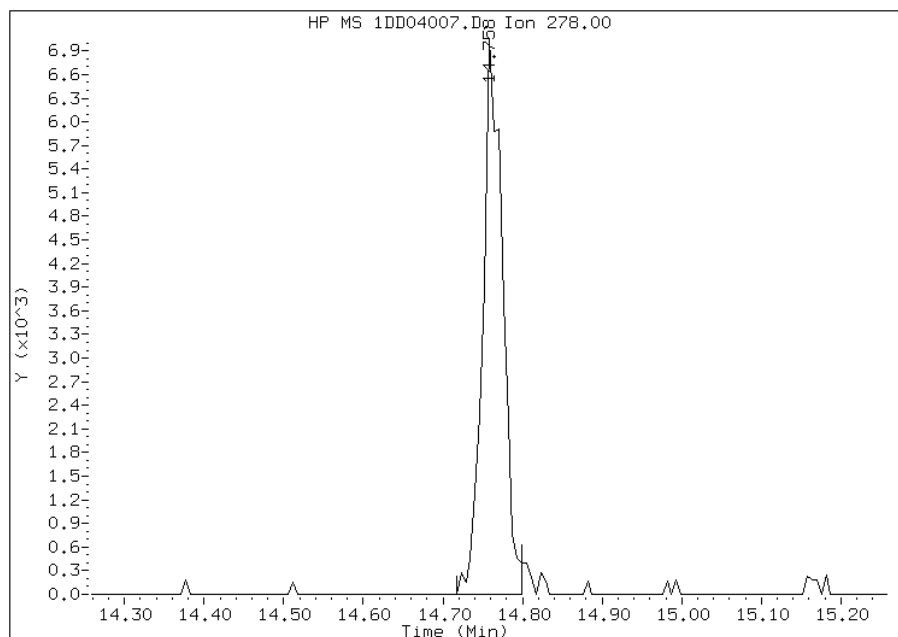
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

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

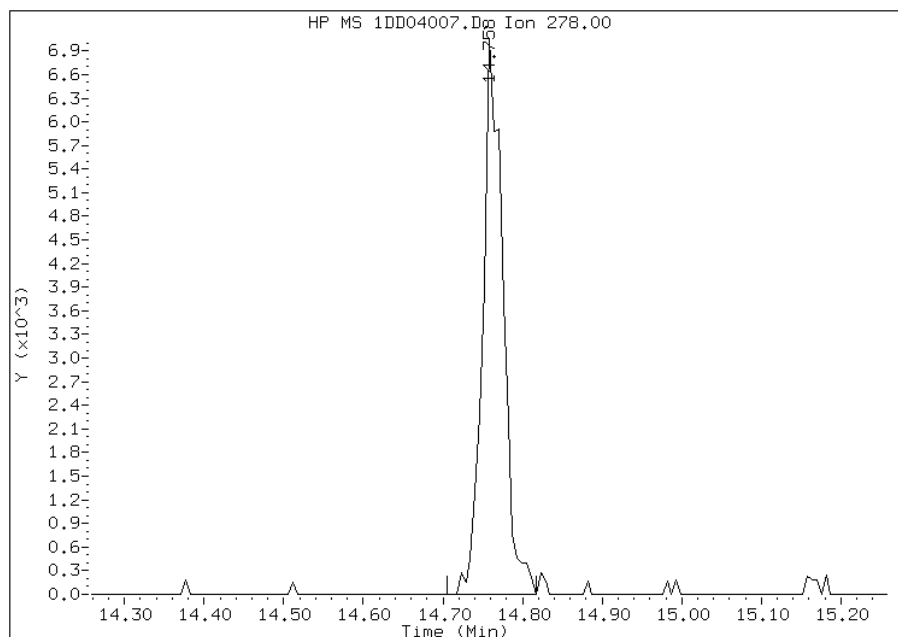
Processing Integration Results

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

Semivolatiles 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\1DD04008.D
 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
 Compound Sublist: pah.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
\$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

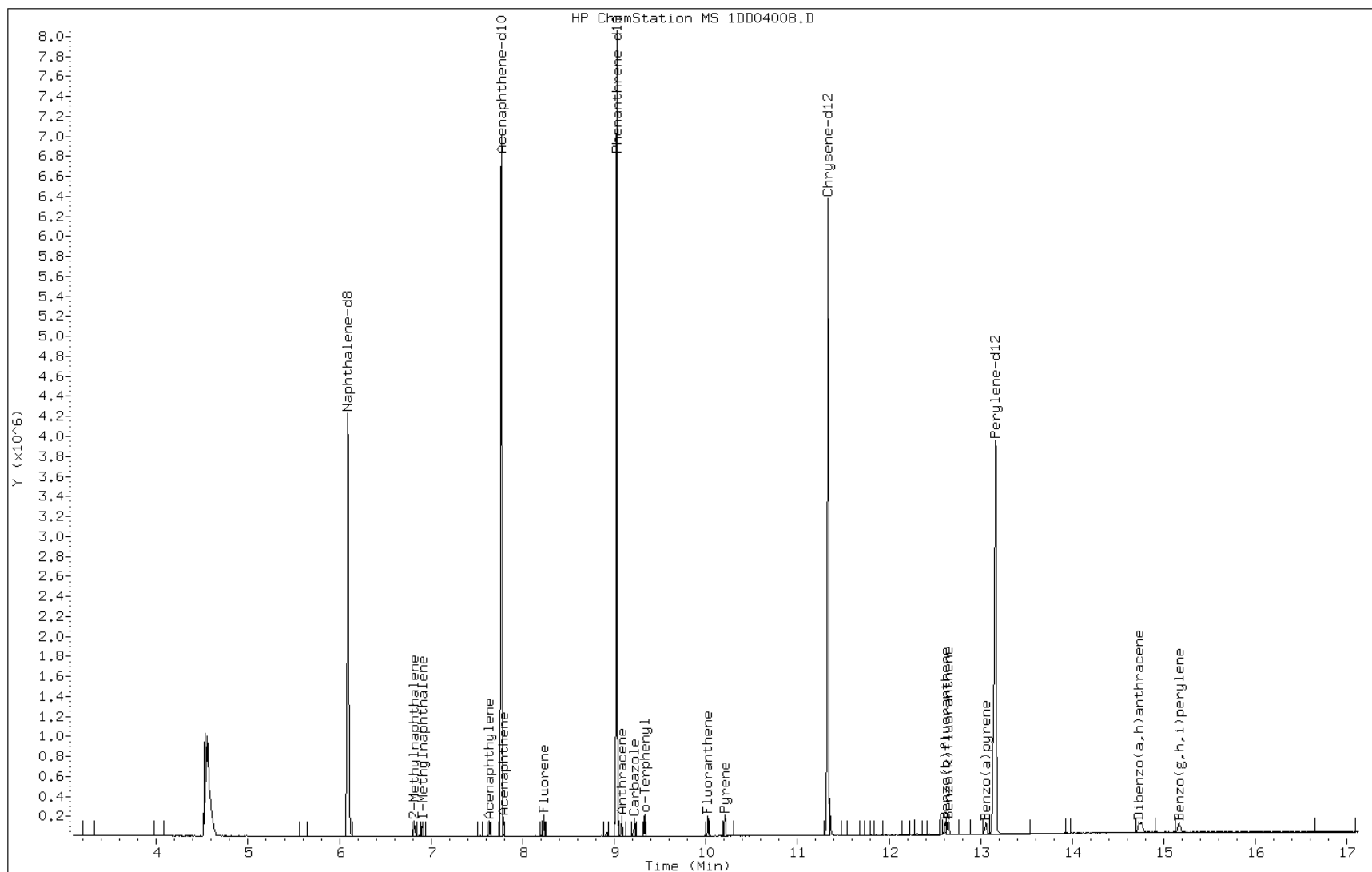
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC

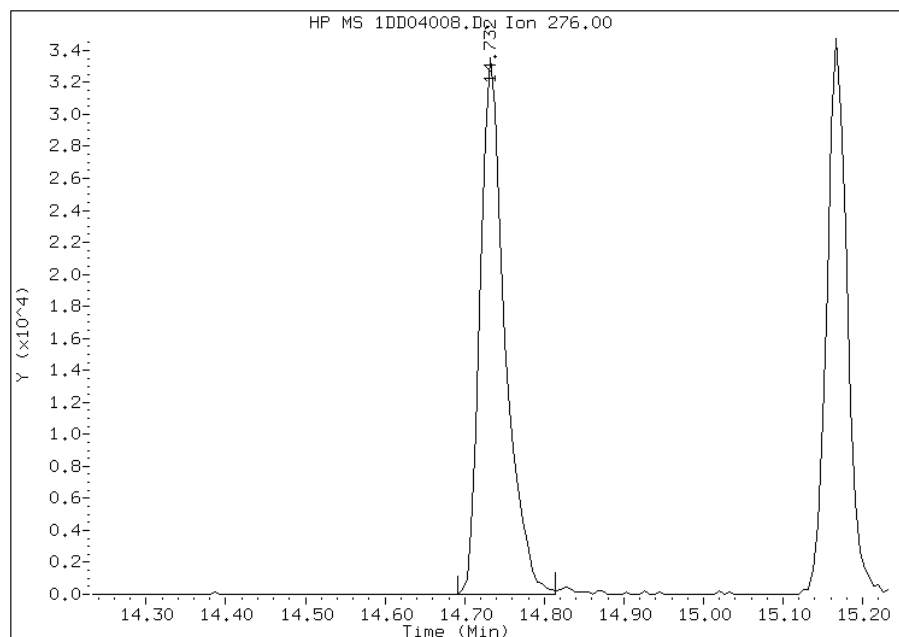


Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

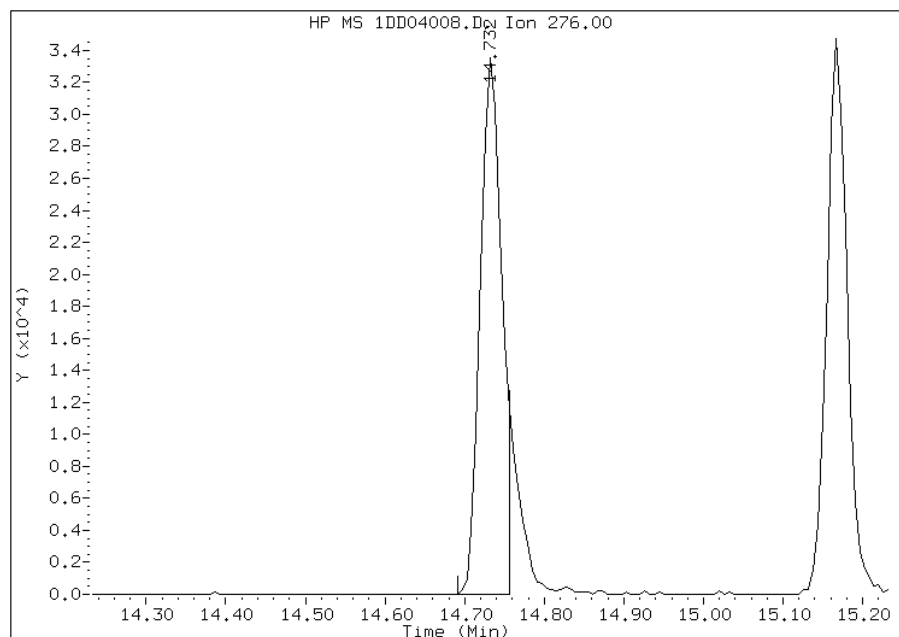
Processing Integration Results

RT: 14.73
Response: 72512
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.73
Response: 62840
Amount: 1
Conc: 1



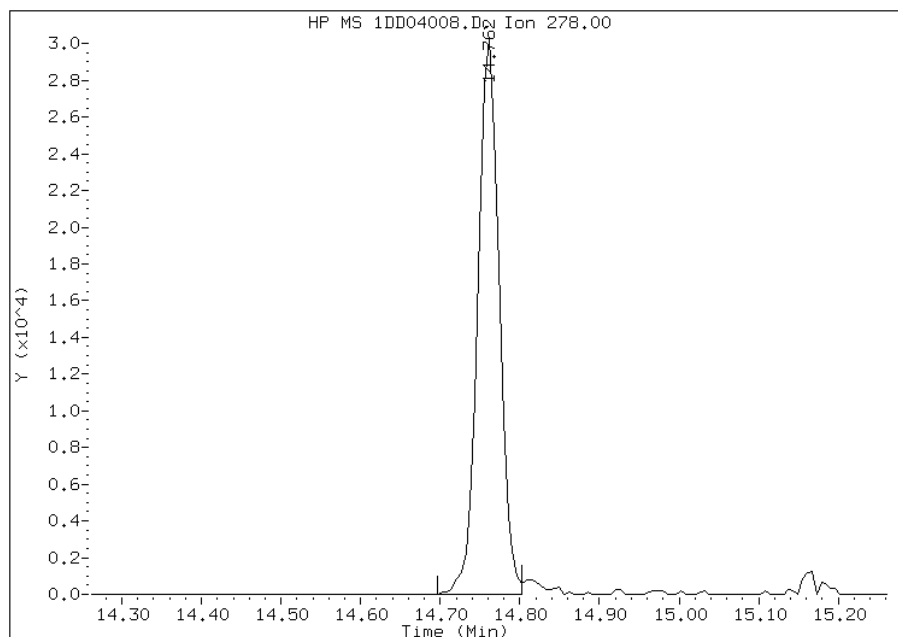
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

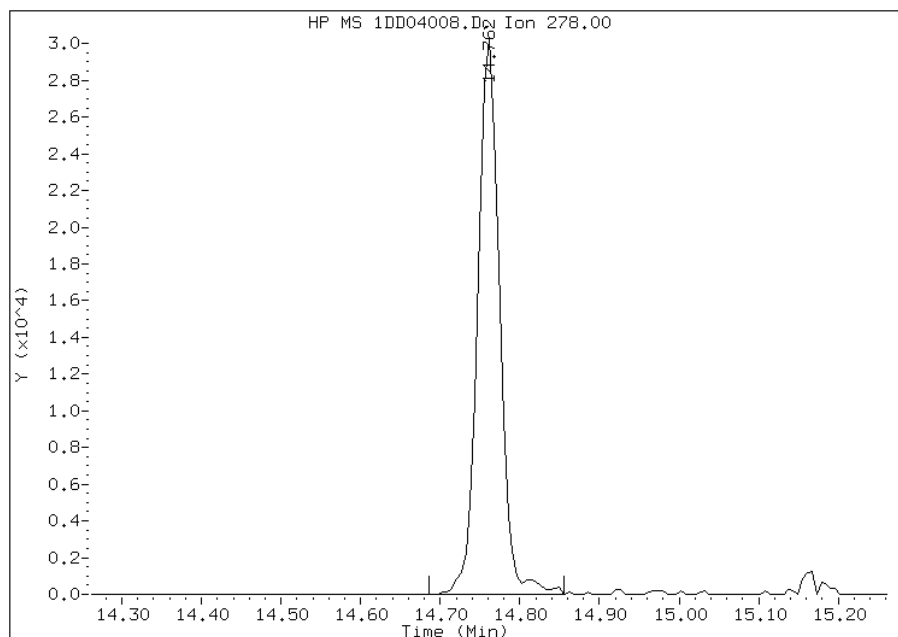
Processing Integration Results

RT: 14.76
Response: 56125
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.76
Response: 57541
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
 Lab Smp Id: IC-1531399
 Inj Date : 04-APR-2013 14:34
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1531399
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
 Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
 Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.093	6.093	(1.000)	2459101	40.0000		
* 6 Acenaphthene-d10	164		7.768	7.768	(1.000)	1451469	40.0000		
* 9 Phenanthrene-d10	188		9.025	9.025	(1.000)	2413975	40.0000		
\$ 13 o-Terphenyl	230		9.331	9.331	(1.034)	185249	5.00000		5.1
* 17 Chrysene-d12	240		11.340	11.340	(1.000)	2435324	40.0000		
* 22 Perylene-d12	264		13.167	13.167	(1.000)	2525708	40.0000		
2 Naphthalene	128		6.111	6.111	(1.003)	316194	5.00000		5.2
3 2-Methylnaphthalene	142		6.816	6.816	(1.119)	200332	5.00000		5.1
4 1-Methylnaphthalene	142		6.910	6.910	(1.134)	190230	5.00000		5.1
5 Acenaphthylene	152		7.639	7.639	(0.983)	314191	5.00000		5.1
7 Acenaphthene	154		7.791	7.791	(1.003)	193205	5.00000		5.1
8 Fluorene	166		8.232	8.232	(1.060)	223769	5.00000		5.0
10 Phenanthrene	178		9.043	9.043	(1.002)	338739	5.00000		5.1
11 Anthracene	178		9.084	9.084	(1.007)	335430	5.00000		5.1
12 Carbazole	167		9.219	9.219	(1.021)	295345	5.00000		5.1
14 Fluoranthene	202		10.024	10.024	(1.111)	348578	5.00000		5.1
15 Pyrene	202		10.212	10.212	(0.901)	374480	5.00000		5.1
16 Benzo(a)anthracene	228		11.323	11.323	(0.998)	339292	5.00000		5.1
18 Chrysene	228		11.358	11.358	(1.002)	329706	5.00000		5.0
19 Benzo(b)fluoranthene	252		12.615	12.615	(0.958)	323060	5.00000		5.1
20 Benzo(k)fluoranthene	252		12.650	12.650	(0.961)	328752	5.00000		4.9
21 Benzo(a)pyrene	252		13.062	13.062	(0.992)	318431	5.00000		5.0
23 Indeno(1,2,3-cd)pyrene	276		14.742	14.742	(1.120)	336963	5.00000		5.0(M)
24 Dibenzo(a,h)anthracene	278		14.766	14.766	(1.121)	316396	5.00000		5.0
25 Benzo(g,h,i)perylene	276		15.177	15.177	(1.153)	331324	5.00000		5.1

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04009.D

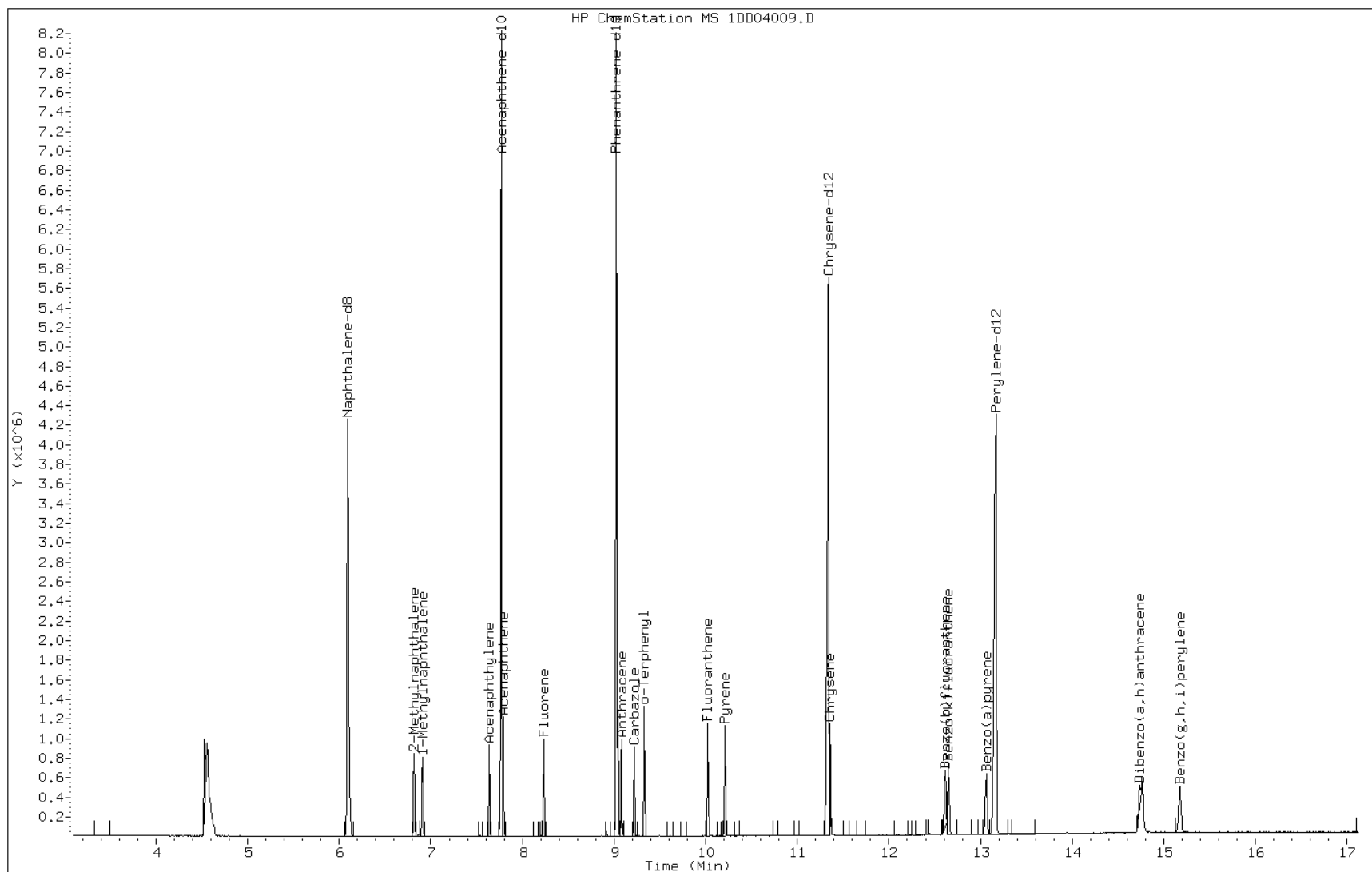
Date: 04-APR-2013 14:34

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531399

Operator: SCC

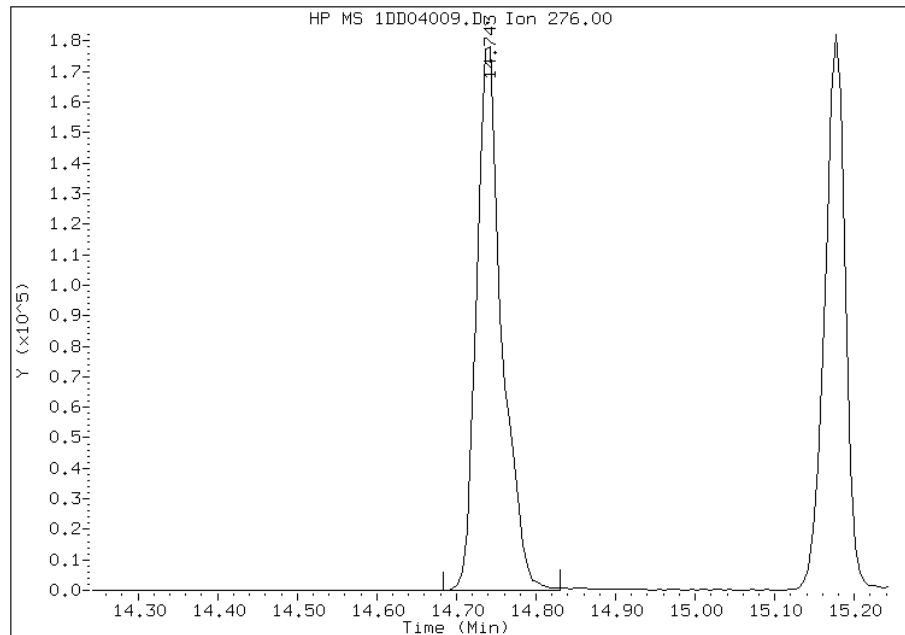


Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

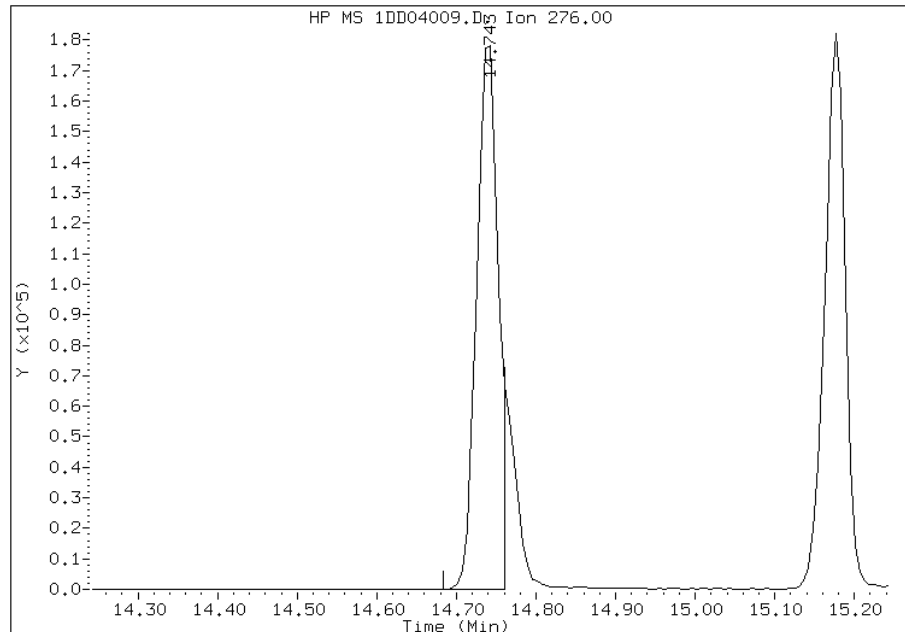
Processing Integration Results

RT: 14.74
Response: 395308
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.74
Response: 336963
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

							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

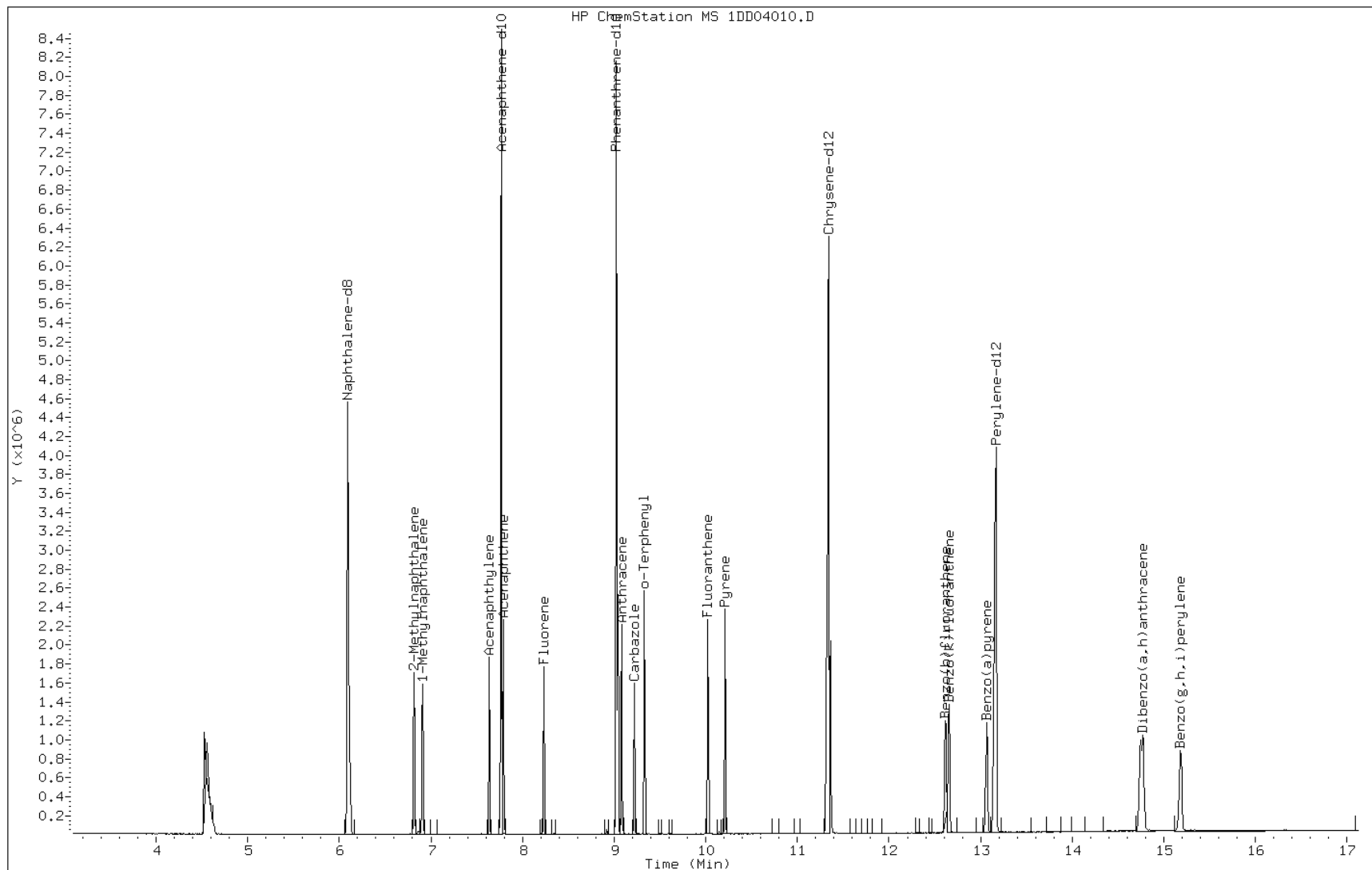
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC

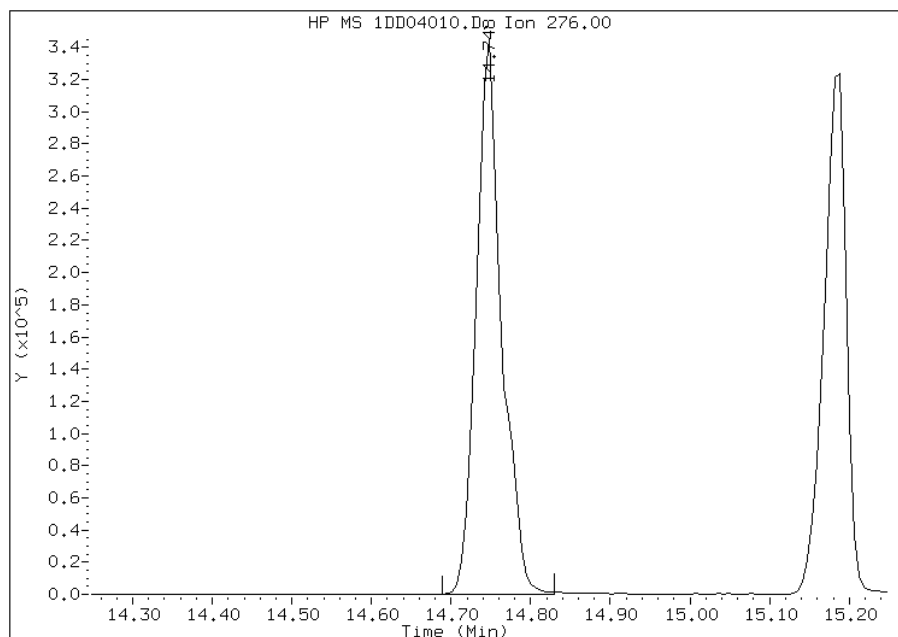


Manual Integration Report

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

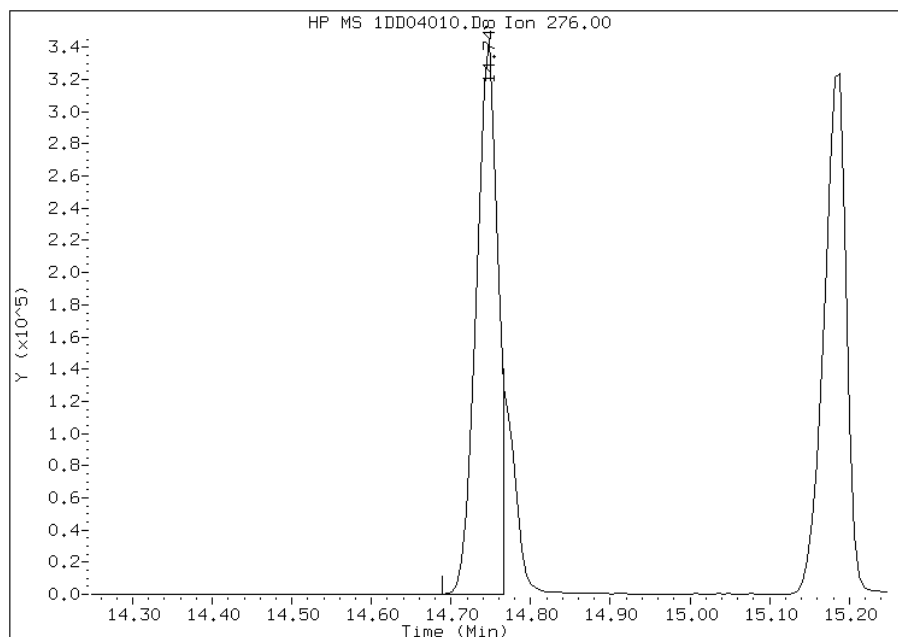
Processing Integration Results

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
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)	2475113	40.0000		
* 6 Acenaphthene-d10	164		7.769	7.769	(1.000)	1466924	40.0000		
* 9 Phenanthrene-d10	188		9.027	9.027	(1.000)	2428512	40.0000		
\$ 13 o-Terphenyl	230		9.332	9.332	(1.034)	754512	20.0000		21
* 17 Chrysene-d12	240		11.342	11.342	(1.000)	2464730	40.0000		
* 22 Perylene-d12	264		13.169	13.169	(1.000)	2515643	40.0000		
2 Naphthalene	128		6.113	6.113	(1.004)	1235557	20.0000		20
3 2-Methylnaphthalene	142		6.818	6.818	(1.120)	806286	20.0000		20
4 1-Methylnaphthalene	142		6.912	6.912	(1.135)	757317	20.0000		20
5 Acenaphthylene	152		7.640	7.640	(0.983)	1275622	20.0000		20
7 Acenaphthene	154		7.793	7.793	(1.003)	757590	20.0000		20
8 Fluorene	166		8.234	8.234	(1.060)	918747	20.0000		20
10 Phenanthrene	178		9.044	9.044	(1.002)	1331875	20.0000		20
11 Anthracene	178		9.086	9.086	(1.007)	1360668	20.0000		20
12 Carbazole	167		9.227	9.227	(1.022)	1202897	20.0000		20
14 Fluoranthene	202		10.026	10.026	(1.111)	1392506	20.0000		20
15 Pyrene	202		10.214	10.214	(0.901)	1496990	20.0000		20
16 Benzo(a)anthracene	228		11.324	11.324	(0.998)	1332372	20.0000		20
18 Chrysene	228		11.365	11.365	(1.002)	1305118	20.0000		20
19 Benzo(b)fluoranthene	252		12.623	12.623	(0.959)	1270704	20.0000		20
20 Benzo(k)fluoranthene	252		12.664	12.664	(0.962)	1319239	20.0000		20
21 Benzo(a)pyrene	252		13.075	13.075	(0.993)	1276688	20.0000		20
23 Indeno(1,2,3-cd)pyrene	276		14.761	14.761	(1.121)	1333044	20.0000		20(M)
24 Dibenzo(a,h)anthracene	278		14.785	14.785	(1.123)	1273836	20.0000		20
25 Benzo(g,h,i)perylene	276		15.202	15.202	(1.154)	1285637	20.0000		20

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04011.D

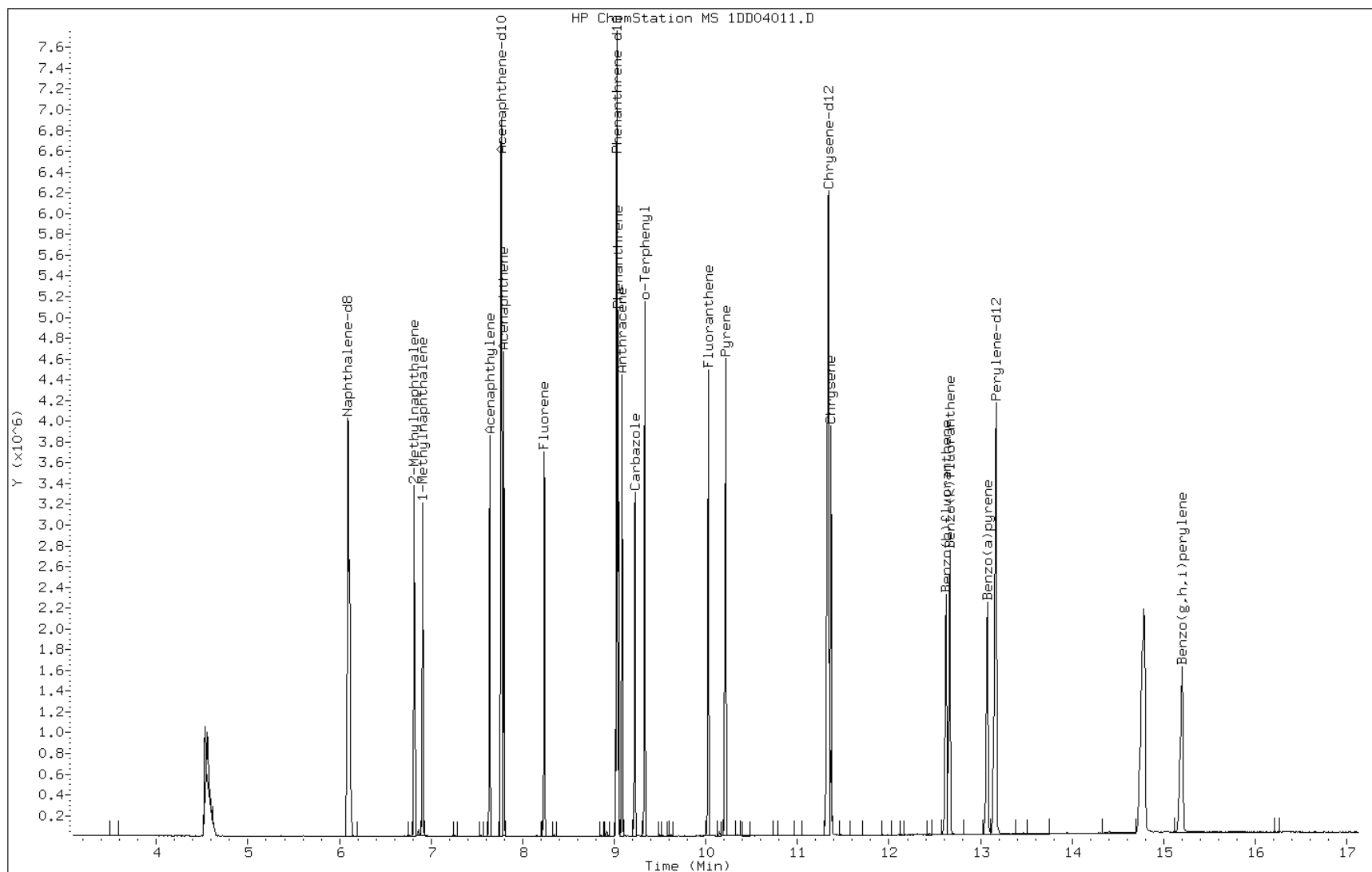
Date: 04-APR-2013 15:19

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1531401

Operator: SCC

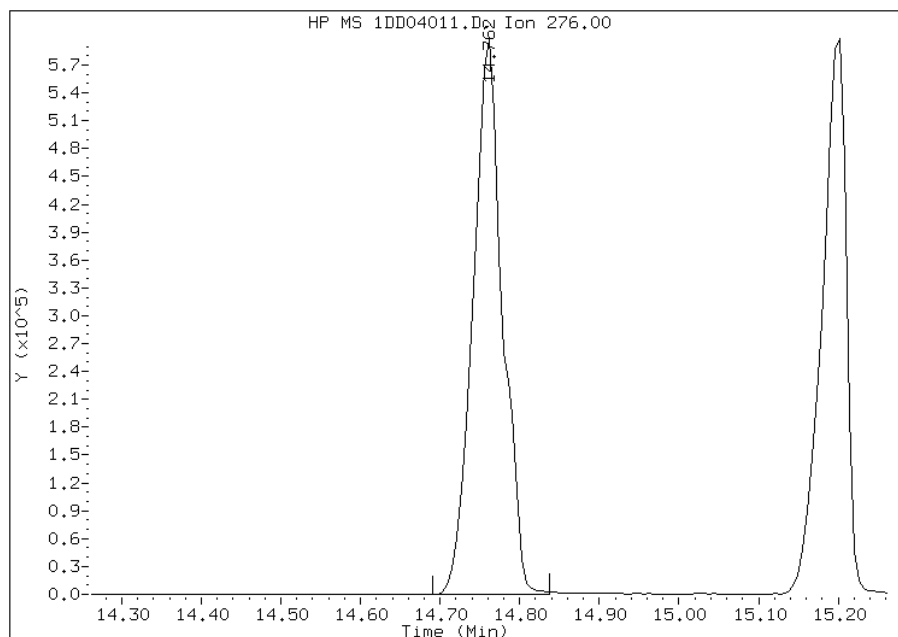


Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

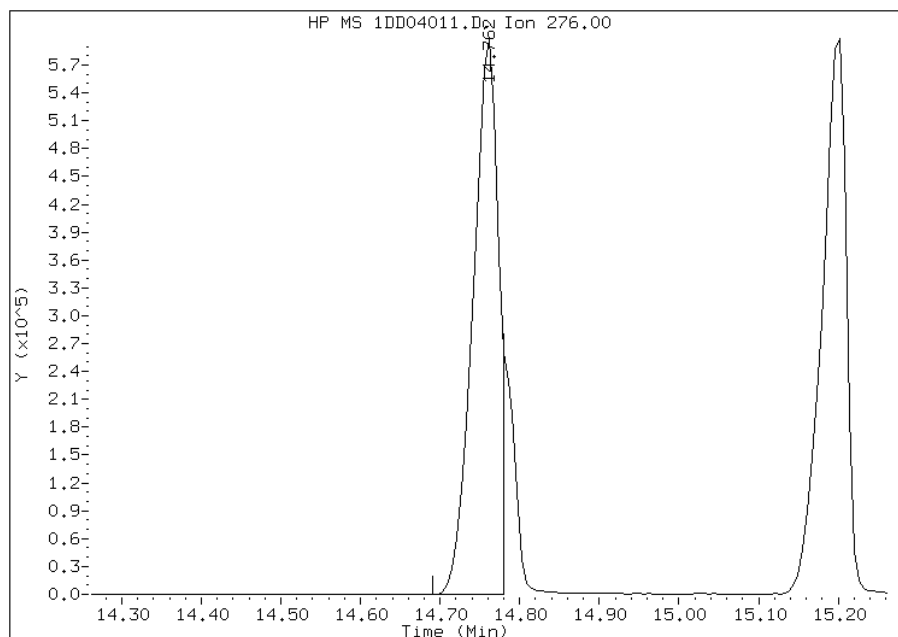
Processing Integration Results

RT: 14.76
Response: 1546230
Amount: 22
Conc: 22



Manual Integration Results

RT: 14.76
Response: 1333044
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG 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)	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

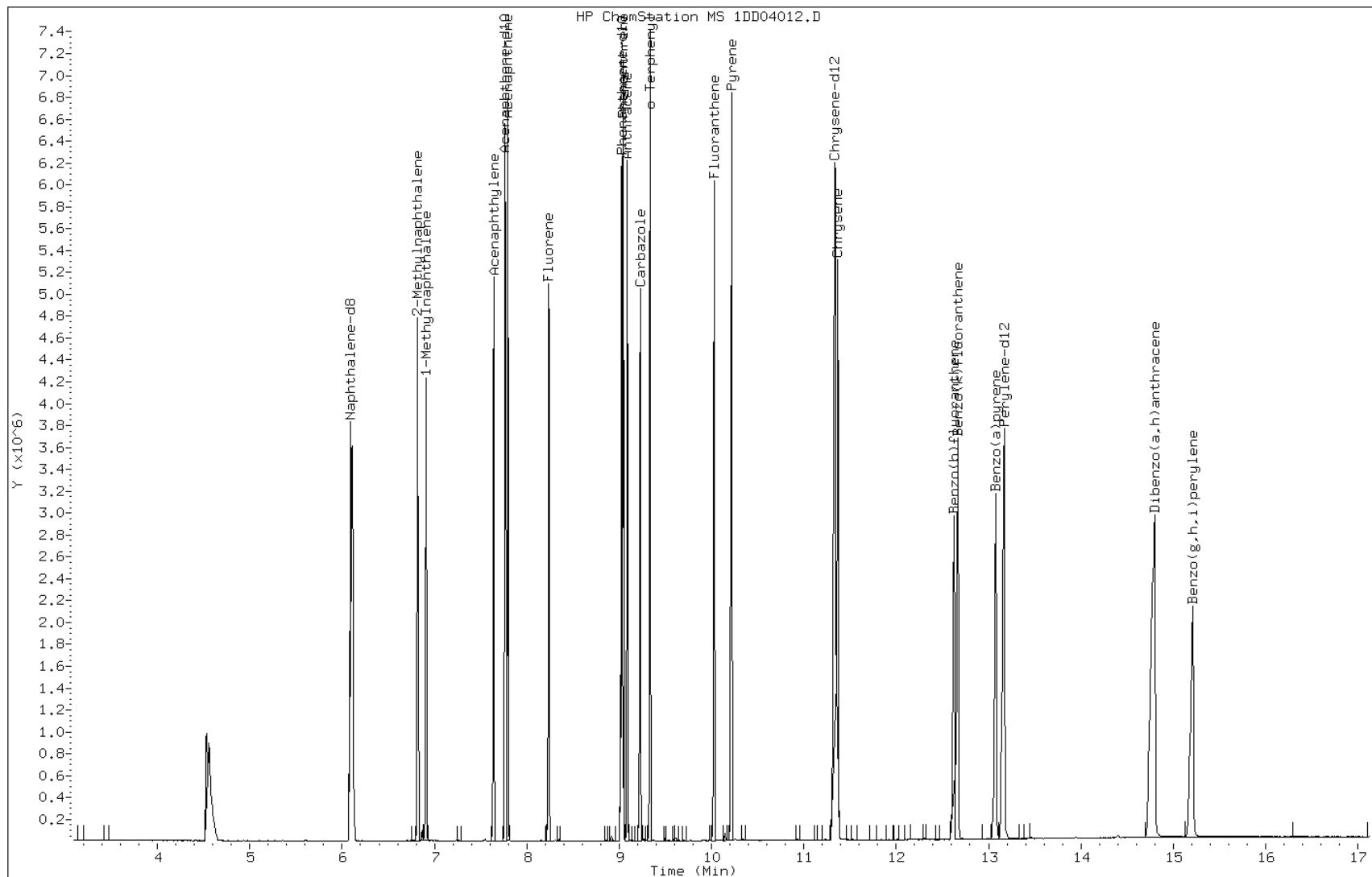
Date: 04-APR-2013 15:42

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531402

Operator: SCC

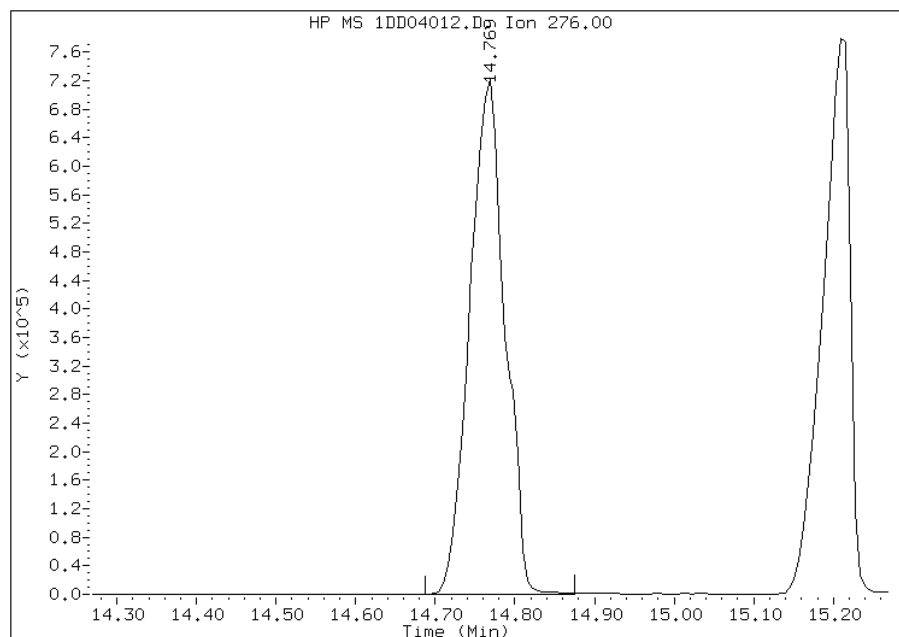


Manual Integration Report

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

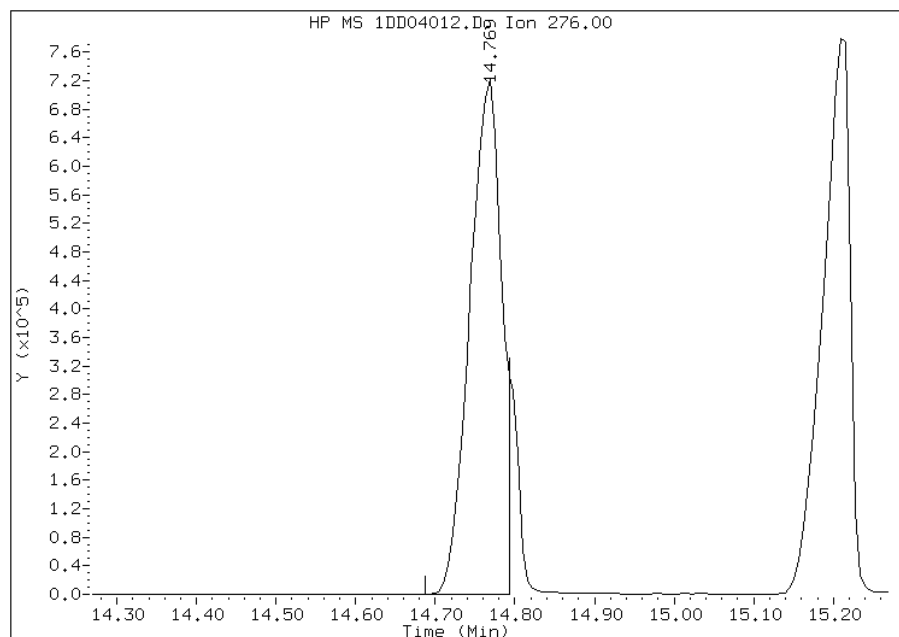
Processing Integration Results

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

Semivolatiles 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\1DD04013.D
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					AMOUNTS	
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.090	6.090	(1.000)	2444753	40.0000	
* 6 Acenaphthene-d10	164		7.770	7.770	(1.000)	1439391	40.0000	
* 9 Phenanthrene-d10	188		9.027	9.027	(1.000)	2373597	40.0000	
\$ 13 o-Terphenyl	230		9.339	9.339	(1.034)	2031596	50.0000	57(A)
* 17 Chrysene-d12	240		11.348	11.348	(1.000)	2479223	40.0000	
* 22 Perylene-d12	264		13.175	13.175	(1.000)	2461140	40.0000	
2 Naphthalene	128		6.113	6.113	(1.004)	3211548	50.0000	53(A)
3 2-Methylnaphthalene	142		6.818	6.818	(1.120)	2134320	50.0000	54(A)
4 1-Methylnaphthalene	142		6.912	6.912	(1.135)	1999874	50.0000	54(A)
5 Acenaphthylene	152		7.641	7.641	(0.983)	3396591	50.0000	56(A)
7 Acenaphthene	154		7.799	7.799	(1.004)	2018481	50.0000	54(A)
8 Fluorene	166		8.240	8.240	(1.060)	2393163	50.0000	54(A)
10 Phenanthrene	178		9.051	9.051	(1.003)	3534794	50.0000	54(A)
11 Anthracene	178		9.092	9.092	(1.007)	3590722	50.0000	55(A)
12 Carbazole	167		9.233	9.233	(1.023)	3137679	50.0000	55(A)
14 Fluoranthene	202		10.032	10.032	(1.111)	3681257	50.0000	55(A)
15 Pyrene	202		10.220	10.220	(0.901)	3965627	50.0000	53(A)
16 Benzo(a)anthracene	228		11.325	11.325	(0.998)	3388838	50.0000	50(A)
18 Chrysene	228		11.377	11.377	(1.003)	3512644	50.0000	52(A)
19 Benzo(b)fluoranthene	252		12.635	12.635	(0.959)	3290902	50.0000	54(A)
20 Benzo(k)fluoranthene	252		12.682	12.682	(0.963)	3421834	50.0000	53(A)
21 Benzo(a)pyrene	252		13.093	13.093	(0.994)	3327888	50.0000	54(A)
23 Indeno(1,2,3-cd)pyrene	276		14.785	14.785	(1.122)	3754268	50.0000	57(AM)
24 Dibenzo(a,h)anthracene	278		14.826	14.826	(1.125)	3350541	50.0000	54(A)
25 Benzo(g,h,i)perylene	276		15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

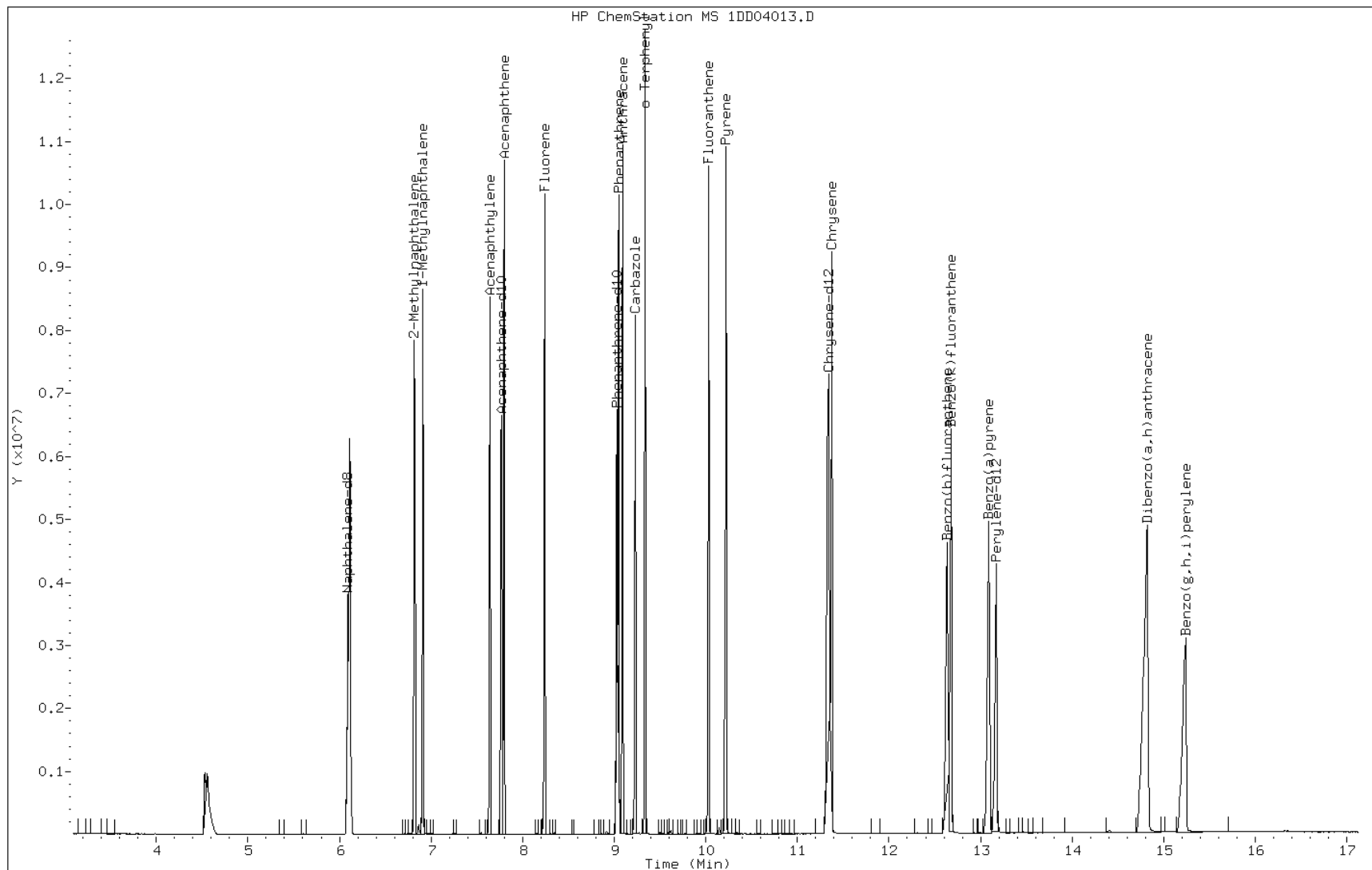
Date: 04-APR-2013 16:04

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531403

Operator: SCC

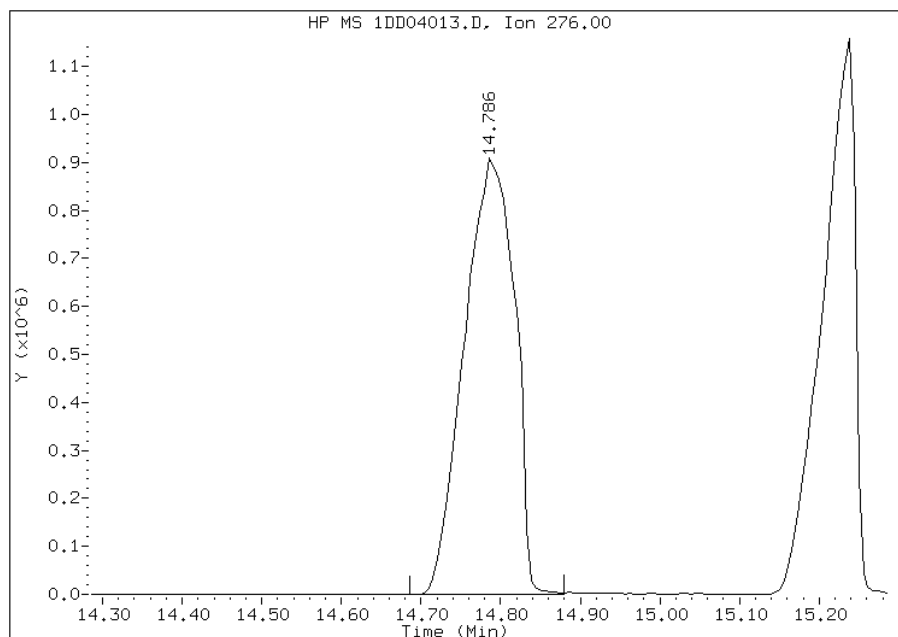


Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

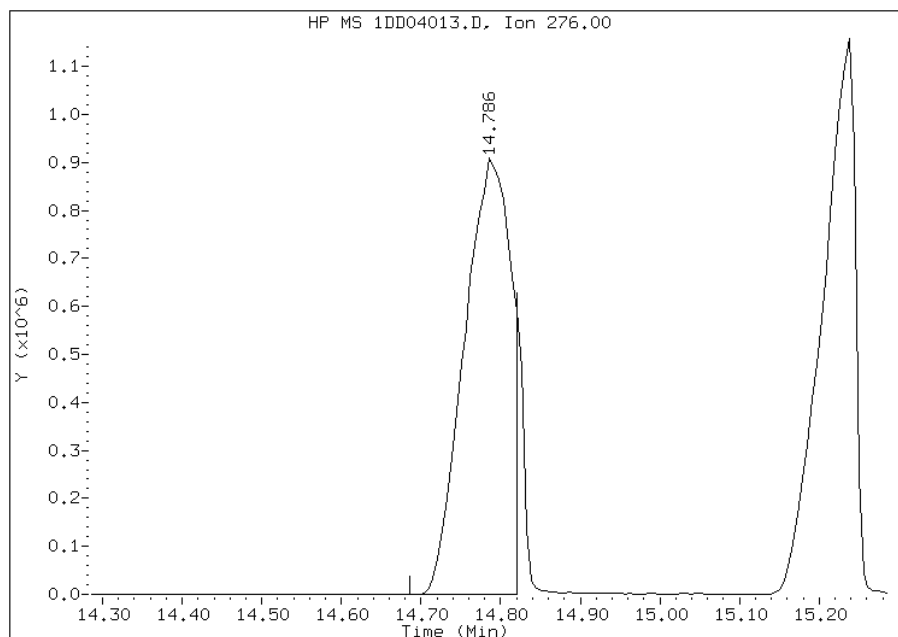
Processing Integration Results

RT: 14.79
Response: 3993028
Amount: 54
Conc: 54



Manual Integration Results

RT: 14.79
Response: 3754268
Amount: 57
Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Lab Sample ID: ICV 660-136370/10 Calibration Date: 04/11/2013 14:25
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06
 Lab File ID: 1CD11010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	0.9667	0.0000	17900	20000	-10.6	35.0
2-Methylnaphthalene	Lin	0.6730	0.7057	0.0000	19800	20000	-1.1	35.0
1-Methylnaphthalene	Ave	0.6907	0.6750	0.0000	19500	20000	-2.3	35.0
Acenaphthylene	Ave	1.695	1.600	0.0000	18900	20000	-5.6	35.0
Acenaphthene	Ave	1.021	0.9034	0.0000	17700	20000	-11.6	35.0
Fluorene	Ave	1.300	1.293	0.0000	19900	20000	-0.6	35.0
Phenanthrene	Qua	1.293	1.058	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.161	1.108	0.0000	19100	20000	-4.6	35.0
Carbazole	Ave	1.082	1.002	0.0000	18500	20000	-7.3	35.0
Fluoranthene	Ave	1.298	1.281	0.0000	19700	20000	-1.3	35.0
Pyrene	Ave	1.138	0.9796	0.0000	17200	20000	-13.9	35.0
Benzo[a]anthracene	LinF	1.279	1.089	0.0000	19300	20000	-3.7	35.0
Chrysene	Ave	1.119	0.9569	0.0000	17100	20000	-14.5	35.0
Benzo[b]fluoranthene	Ave	1.010	0.9917	0.0000	19600	20000	-1.8	35.0
Benzo[k]fluoranthene	Ave	1.143	1.000	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.044	0.8988	0.0000	17200	20000	-13.9	35.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.8637	0.0000	17300	20000	-13.6	35.0
Dibenz(a,h)anthracene	Lin	1.014	0.9353	0.0000	18700	20000	-6.5	35.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9212	0.0000	18800	20000	-5.9	35.0
o-Terphenyl	Lin	0.5859	0.5690	0.0000	17900	20000	-10.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11010.D
Lab Smp Id: ICV-1448440
Inj Date : 11-APR-2013 14:25
Operator : SCC
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1a-bFASTPAHi-m.m
Meth Date : 11-Apr-2013 14:45 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
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

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/mL)	(ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		3.674	3.675	(1.000)		273342	40.0000	
* 6 Acenaphthene-d10	164		4.763	4.763	(1.000)		204687	40.0000	
* 10 Phenanthrene-d10	188		5.704	5.704	(1.000)		380421	40.0000	
\$ 14 o-Terphenyl	230		5.957	5.957	(1.044)		108232	17.8704	17.8703
* 18 Chrysene-d12	240		7.639	7.639	(1.000)		501991	40.0000	
* 23 Perylene-d12	264		8.798	8.798	(1.000)		491170	40.0000	
2 Naphthalene	128		3.686	3.687	(1.003)		132124	17.8815	17.8815
3 2-Methylnaphthalene	142		4.116	4.115	(1.120)		96442	19.7889	19.7889
4 1-Methylnaphthalene	142		4.174	4.175	(1.136)		92254	19.5465	19.5464
5 Acenaphthylene	152		4.674	4.675	(0.981)		163781	18.8832	18.8832
7 Acenaphthene	154		4.780	4.781	(1.004)		92455	17.6882	17.6882
9 Fluorene	166		5.098	5.104	(1.070)		132282	19.8871	19.8871
11 Phenanthrene	178		5.721	5.722	(1.003)		201336	18.1160	18.1159
12 Anthracene	178		5.757	5.757	(1.009)		210753	19.0830	19.0829
13 Carbazole	167		5.863	5.863	(1.028)		190681	18.5382	18.5381
15 Fluoranthene	202		6.551	6.557	(1.148)		243606	19.7397	19.7396
16 Pyrene	202		6.721	6.722	(0.880)		245865	17.2161	17.2160

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228	7.633	7.634	(0.999)	273405	19.2602	19.2602
19 Chrysene	228	7.662	7.663	(1.003)	240185	17.1039	17.1038
20 Benzo(b)fluoranthene	252	8.462	8.468	(0.962)	243541	19.6314	19.6313
21 Benzo(k)fluoranthene	252	8.486	8.486	(0.965)	245569	17.4935	17.4935
22 Benzo(a)pyrene	252	8.745	8.751	(0.994)	220738	17.2134	17.2134
24 Indeno(1,2,3-cd)pyrene	276	9.921	9.933	(1.128)	212104	17.2880	17.2879(M)
25 Dibenzo(a,h)anthracene	278	9.939	9.945	(1.130)	229693	18.7094	18.7094
26 Benzo(g,h,i)perylene	276	10.256	10.269	(1.166)	226235	18.8222	18.8221

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD11010.D

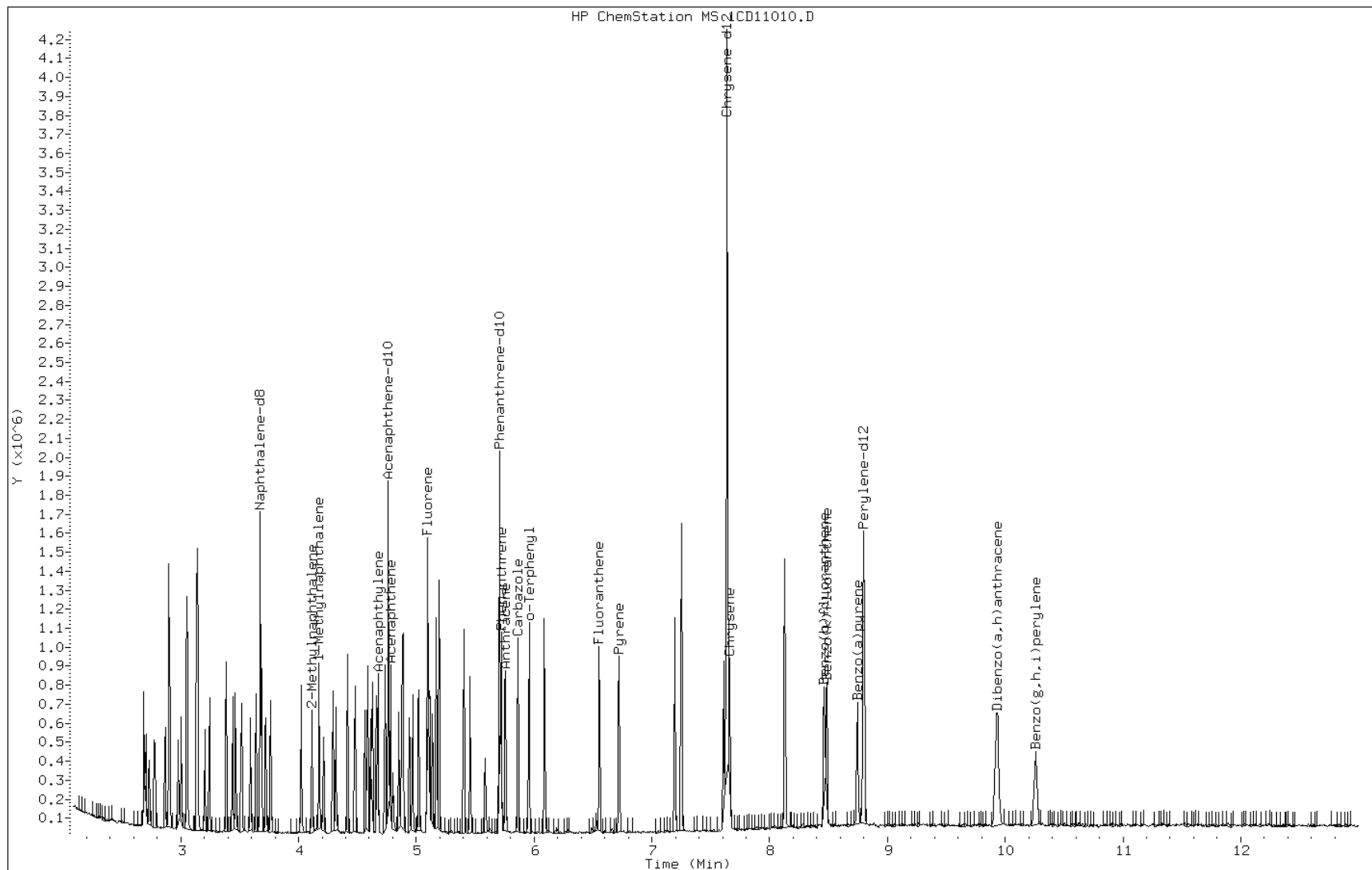
Date: 11-APR-2013 14:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

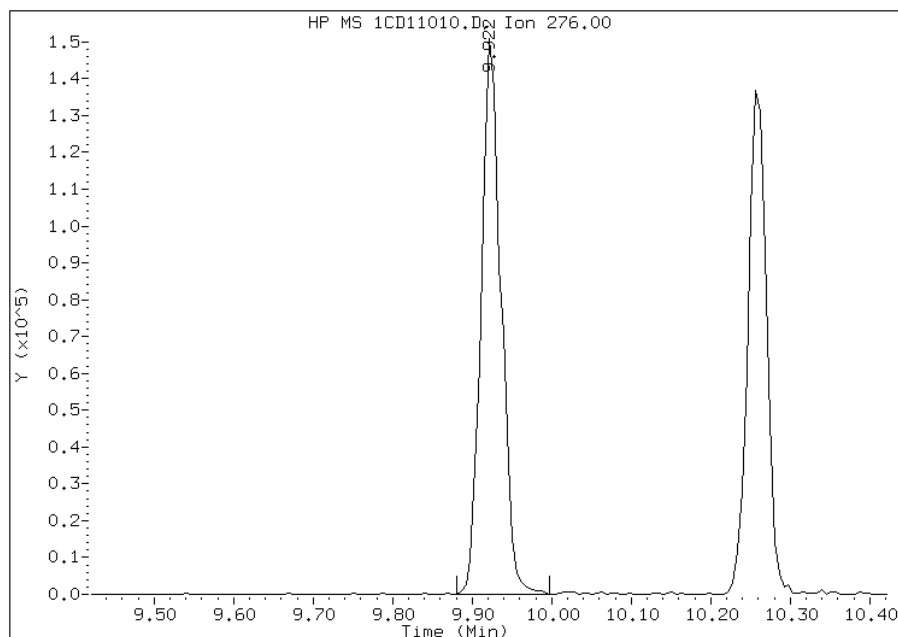


Manual Integration Report

Data File: 1CD11010.D
Inj. Date and Time: 11-APR-2013 14:25
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/11/2013

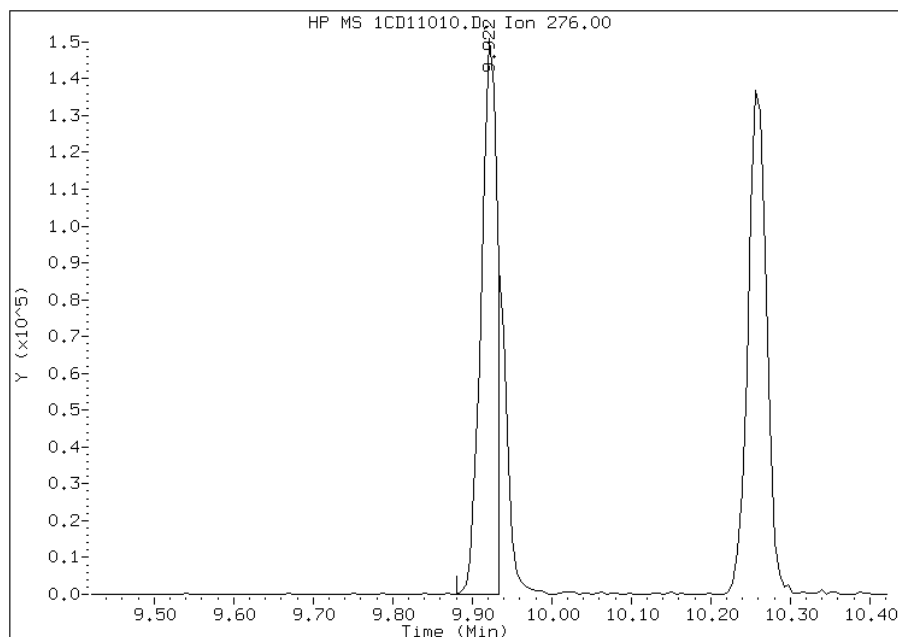
Processing Integration Results

RT: 9.92
Response: 260276
Amount: 21
Conc: 21



Manual Integration Results

RT: 9.92
Response: 212104
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 11-Apr-2013 14:46
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Lab Sample ID: CCVIS 660-136698/3 Calibration Date: 04/22/2013 11:50
 Instrument ID: BSMC5973 Calib Start Date: 04/11/2013 11:56
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/11/2013 14:06
 Lab File ID: 1CD22003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.081	1.007	0.0000	18600	20000	-6.9	20.0
2-Methylnaphthalene	Lin	0.6730	0.6342	0.0000	17800	20000	-10.9	20.0
1-Methylnaphthalene	Ave	0.6907	0.6422	0.0000	18600	20000	-7.0	20.0
Acenaphthylene	Ave	1.695	1.674	0.0000	19800	20000	-1.2	20.0
Acenaphthene	Ave	1.021	1.163	0.0000	22800	20000	13.9	20.0
Fluorene	Ave	1.300	1.393	0.0000	21400	20000	7.2	20.0
Phenanthrene	Qua	1.293	1.146	0.0000	19600	20000	-1.9	20.0
Anthracene	Ave	1.161	1.220	0.0000	21000	20000	5.1	20.0
Carbazole	Ave	1.082	1.078	0.0000	19900	20000	-0.3	20.0
Fluoranthene	Ave	1.298	1.216	0.0000	18700	20000	-6.3	20.0
Pyrene	Ave	1.138	1.108	0.0000	19500	20000	-2.6	20.0
Benzo[a]anthracene	LinF	1.279	1.135	0.0000	20100	20000	0.4	20.0
Chrysene	Ave	1.119	1.052	0.0000	18800	20000	-6.0	20.0
Benzo[b]fluoranthene	Ave	1.010	1.133	0.0000	22400	20000	12.1	20.0
Benzo[k]fluoranthene	Ave	1.143	1.026	0.0000	17900	20000	-10.3	20.0
Benzo[a]pyrene	Ave	1.044	1.083	0.0000	20700	20000	3.7	20.0
Indeno[1,2,3-cd]pyrene	Lin	1.022	0.9053	0.0000	18100	20000	-9.6	20.0
Dibenz(a,h)anthracene	Lin	1.014	0.9399	0.0000	18800	20000	-6.0	20.0
Benzo[g,h,i]perylene	Ave	0.9789	0.9293	0.0000	19000	20000	-5.1	20.0
o-Terphenyl	Lin	0.5859	0.5783	0.0000	18200	20000	-9.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 22-APR-2013 11:50
Operator : SCC
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136	3.651	3.651 (1.000)		177233	40.0000	(H)
* 6 Acenaphthene-d10	164	4.739	4.739 (1.000)		115325	40.0000	
* 10 Phenanthrene-d10	188	5.680	5.680 (1.000)		215585	40.0000	(H)
\$ 14 o-Terphenyl	230	5.933	5.933 (1.045)		62335	20.0000	18.1504
* 18 Chrysene-d12	240	7.615	7.615 (1.000)		268224	40.0000	(H)
* 23 Perylene-d12	264	8.762	8.762 (1.000)		275000	40.0000	(H)
2 Naphthalene	128	3.663	3.663 (1.003)		89200	20.0000	18.6186
3 2-Methylnaphthalene	142	4.092	4.092 (1.121)		56201	20.0000	17.8129(H)
4 1-Methylnaphthalene	142	4.151	4.151 (1.137)		56906	20.0000	18.5953(H)
5 Acenaphthylene	152	4.651	4.651 (0.981)		96546	20.0000	19.7566
7 Acenaphthene	154	4.757	4.757 (1.004)		67059	20.0000	22.7707
9 Fluorene	166	5.080	5.080 (1.072)		80335	20.0000	21.4359
11 Phenanthrene	178	5.698	5.698 (1.003)		123552	20.0000	19.6267(H)
12 Anthracene	178	5.733	5.733 (1.009)		131526	20.0000	21.0150(H)
13 Carbazole	167	5.839	5.839 (1.028)		116223	20.0000	19.9387(H)
15 Fluoranthene	202	6.527	6.527 (1.149)		131029	20.0000	18.7354(H)
16 Pyrene	202	6.692	6.692 (0.879)		148578	20.0000	19.4711(H)
17 Benzo(a)anthracene	228	7.603	7.603 (0.998)		152236	20.0000	20.0710(H)
19 Chrysene	228	7.633	7.633 (1.002)		141105	20.0000	18.8057
20 Benzo(b)fluoranthene	252	8.433	8.433 (0.962)		155786	20.0000	22.4288(H)
21 Benzo(k)fluoranthene	252	8.456	8.456 (0.965)		141020	20.0000	17.9425(H)
22 Benzo(a)pyrene	252	8.709	8.709 (0.994)		148881	20.0000	20.7361(H)
24 Indeno(1,2,3-cd)pyrene	276	9.874	9.874 (1.127)		124473	20.0000	18.0896(MH)
25 Dibenzo(a,h)anthracene	278	9.886	9.886 (1.128)		129235	20.0000	18.7992(H)
26 Benzo(g,h,i)perylene	276	10.209	10.209 (1.165)		127780	20.0000	18.9876(H)

QC Flag Legend

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

Data File: 1CD22003.D

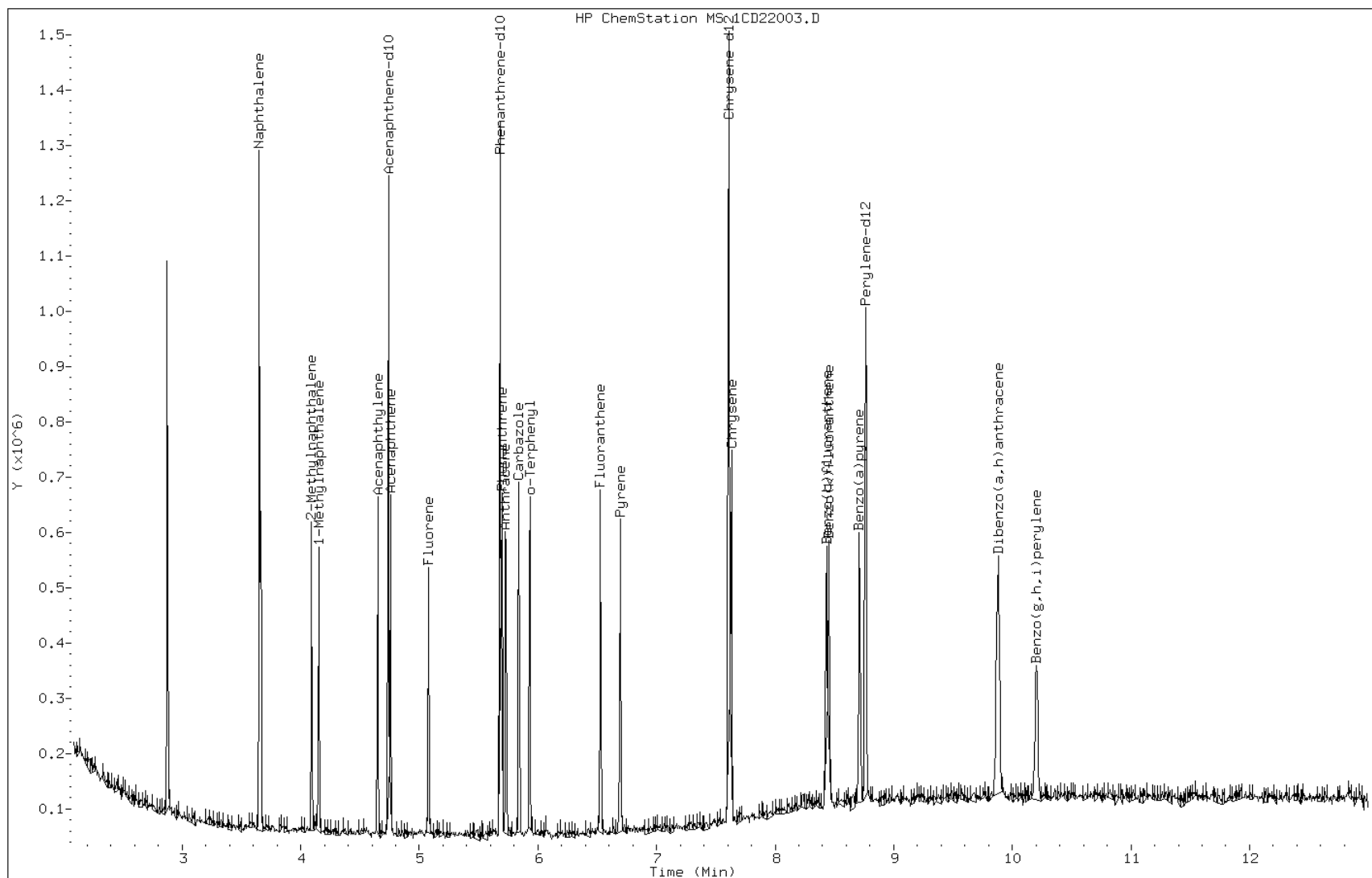
Date: 22-APR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1531401

Operator: SCC

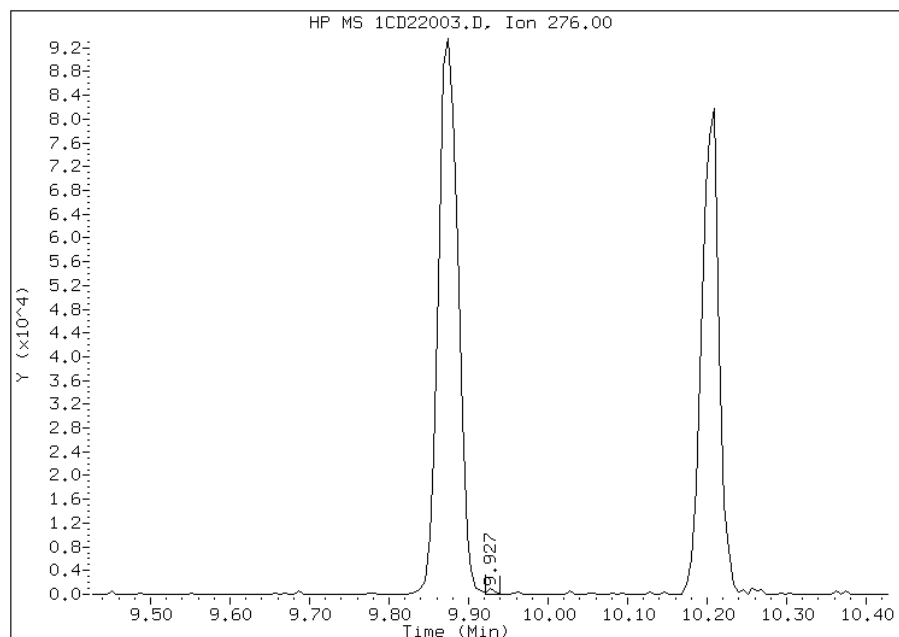


Manual Integration Report

Data File: 1CD22003.D
Inj. Date and Time: 22-APR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/22/2013

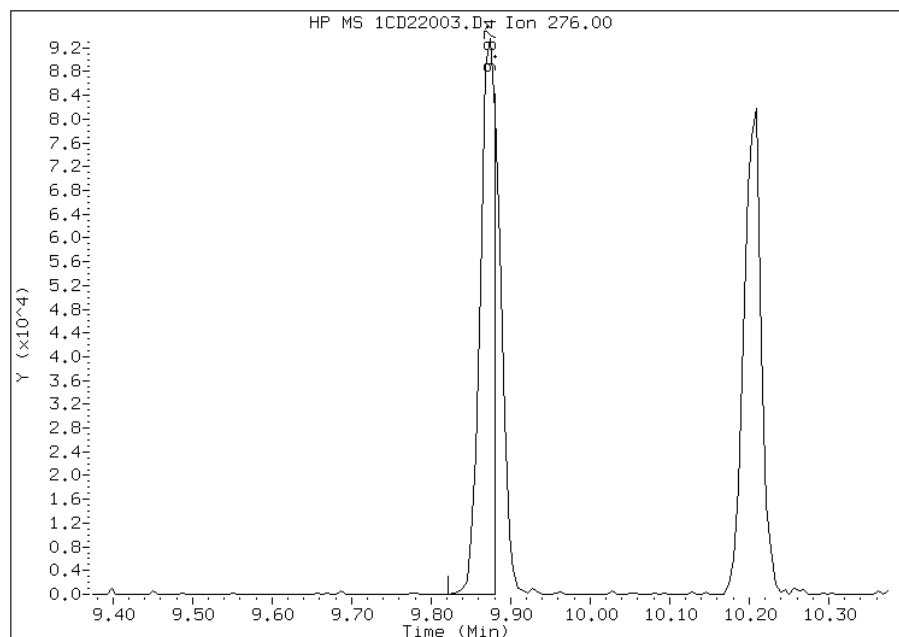
Processing Integration Results

RT: 9.93
Response: 617
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.87
Response: 124473
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Apr-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 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

Semivolatile 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

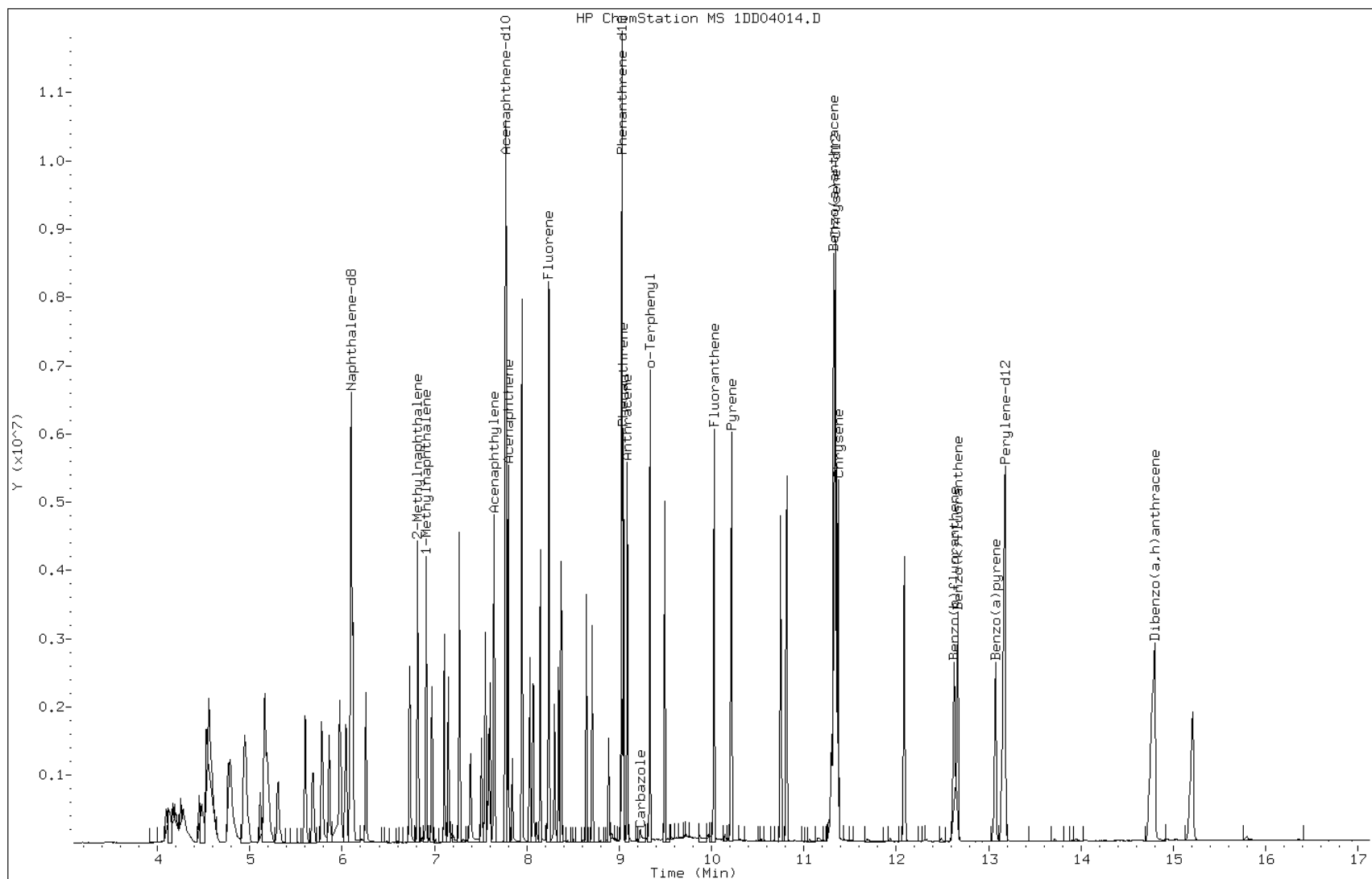
Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/l)	(ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.096	6.090	(1.000)		3619899	40.0000	
* 6 Acenaphthene-d10	164		7.771	7.770	(1.000)		2333423	40.0000	
* 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					
		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.

Operator: SCC

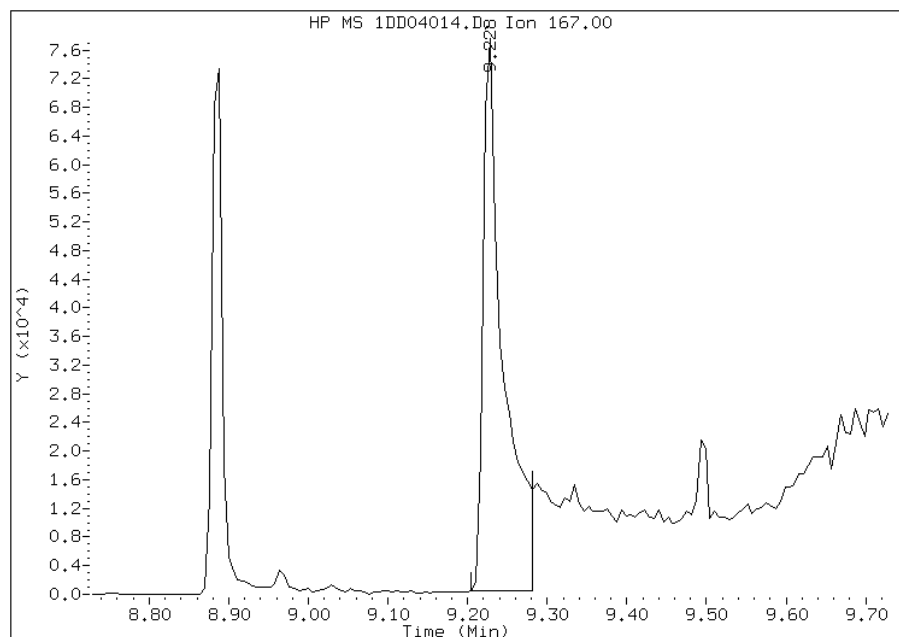


Manual Integration Report

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

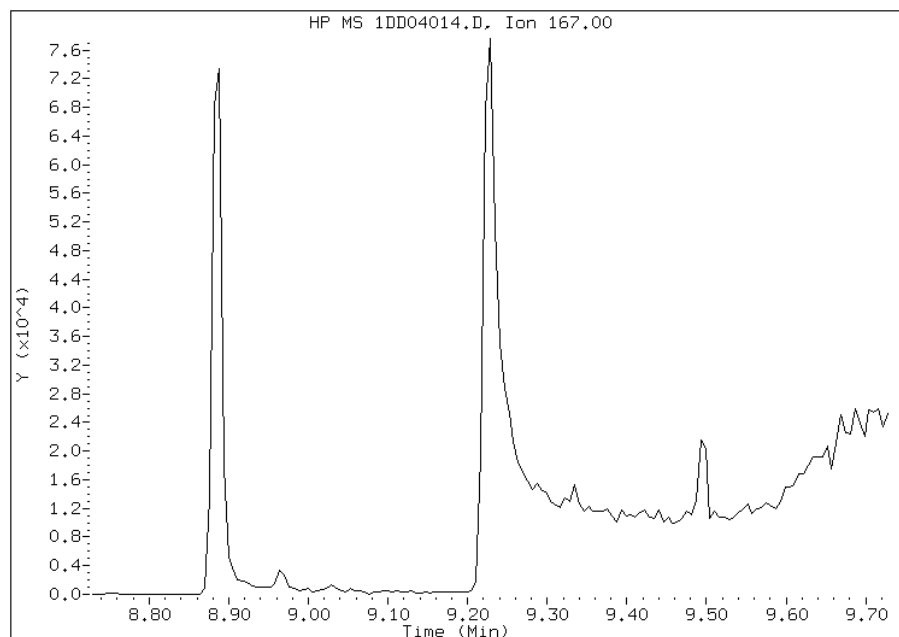
Processing Integration Results

RT: 9.23
Response: 136620
Amount: 1
Conc: 1



Manual Integration Results

RT: 9.23
Response: 1319041
Amount: 14
Conc: 14



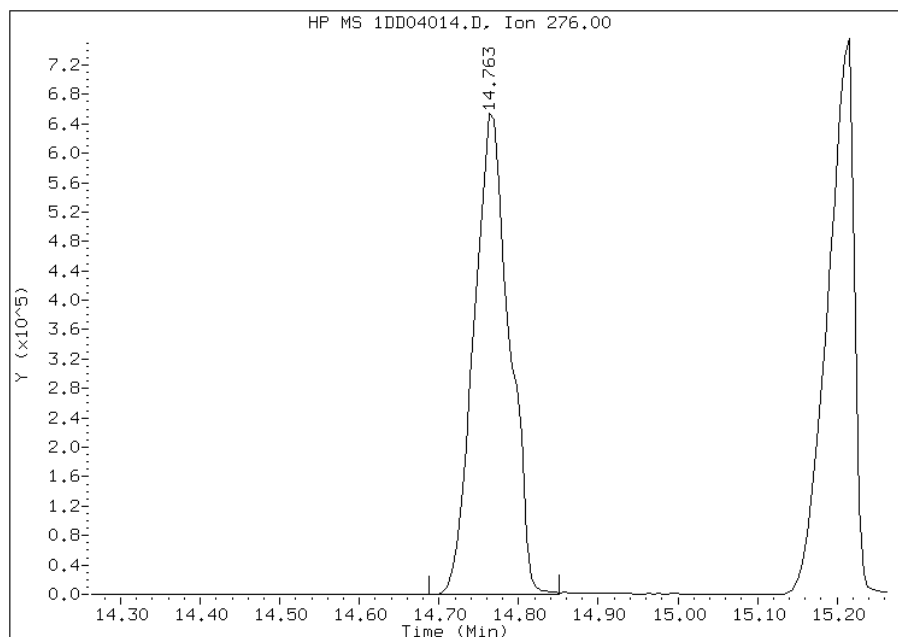
Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

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

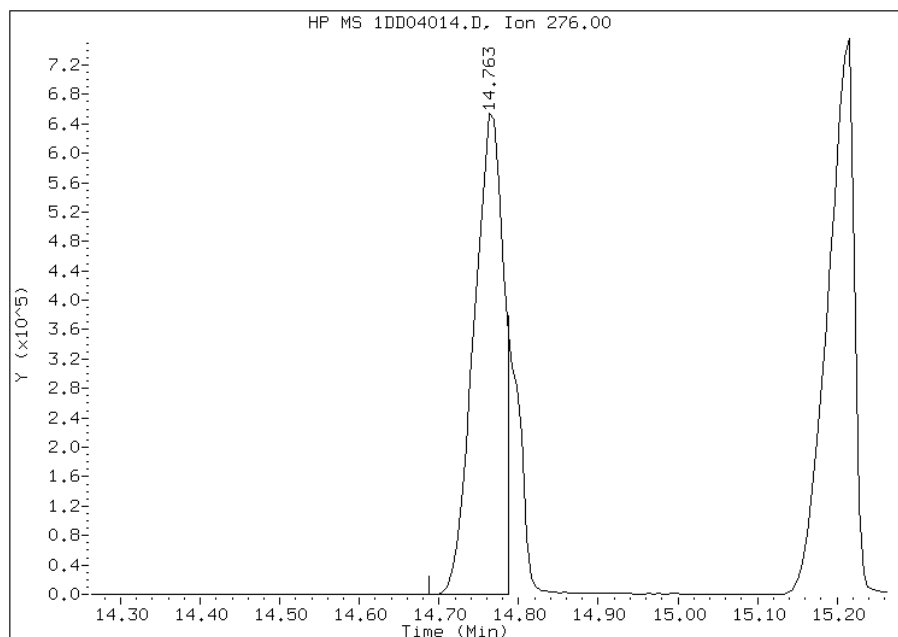
Processing Integration Results

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.: 680-89459-1
 SDG No.: 68089459-1
 Lab Sample ID: CCVIS 660-136756/4 Calibration Date: 04/23/2013 13:06
 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: 1DD23004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9852	0.0000	19800	20000	-0.9	20.0
2-Methylnaphthalene	Ave	0.6418	0.6398	0.0000	19900	20000	-0.3	20.0
1-Methylnaphthalene	Ave	0.6061	0.5888	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.693	1.721	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	1.045	1.023	0.0000	19600	20000	-2.1	20.0
Fluorene	Ave	1.238	1.213	0.0000	19600	20000	-2.0	20.0
Phenanthrene	Ave	1.102	1.077	0.0000	19600	20000	-2.2	20.0
Anthracene	Ave	1.094	1.096	0.0000	20000	20000	0.2	20.0
Carbazole	Ave	0.9646	0.9490	0.0000	19700	20000	-1.6	20.0
Fluoranthene	Ave	1.134	1.100	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.201	1.259	0.0000	21000	20000	4.8	20.0
Benzo[a]anthracene	Ave	1.156	1.064	0.0000	18400	20000	-8.0	20.0
Chrysene	Ave	1.084	1.075	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	0.999	1.045	0.0000	20900	20000	4.6	20.0
Benzo[k]fluoranthene	Ave	1.053	1.028	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.004	1.021	0.0000	20300	20000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.125	0.0000	21000	20000	5.1	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.019	0.0000	20200	20000	1.1	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.053	0.0000	20400	20000	2.2	20.0
o-Terphenyl	Ave	0.6027	0.5900	0.0000	19600	20000	-2.1	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23004.D
Lab Smp Id: CCV-1531401
Inj Date : 23-APR-2013 13:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.051	6.051	(1.000)	1580617	40.0000		(H)
* 6 Acenaphthene-d10	164		7.732	7.732	(1.000)	898769	40.0000		
* 9 Phenanthrene-d10	188		8.995	8.995	(1.000)	1440899	40.0000		(H)
\$ 13 o-Terphenyl	230		9.306	9.306	(1.035)	425079	20.0000	20	
* 17 Chrysene-d12	240		11.304	11.304	(1.000)	1347354	40.0000		(H)
* 22 Perylene-d12	264		13.120	13.120	(1.000)	1365132	40.0000		(H)
2 Naphthalene	128		6.075	6.075	(1.004)	778635	20.0000	20(H)	
3 2-Methylnaphthalene	142		6.780	6.780	(1.120)	505626	20.0000	20(H)	
4 1-Methylnaphthalene	142		6.874	6.874	(1.136)	465341	20.0000	19(H)	
5 Acenaphthylene	152		7.608	7.608	(0.984)	773280	20.0000	20	
7 Acenaphthene	154		7.761	7.761	(1.004)	459843	20.0000	20	
8 Fluorene	166		8.208	8.208	(1.062)	545091	20.0000	20	
10 Phenanthrene	178		9.013	9.013	(1.002)	776039	20.0000	20(H)	
11 Anthracene	178		9.054	9.054	(1.007)	789282	20.0000	20(H)	
12 Carbazole	167		9.195	9.195	(1.022)	683717	20.0000	20(H)	
14 Fluoranthene	202		10.000	10.000	(1.112)	792537	20.0000	19(H)	
15 Pyrene	202		10.188	10.188	(0.901)	848028	20.0000	21(H)	
16 Benzo(a)anthracene	228		11.287	11.287	(0.998)	716524	20.0000	18(H)	
18 Chrysene	228		11.328	11.328	(1.002)	724359	20.0000	20(H)	
19 Benzo(b)fluoranthene	252		12.585	12.585	(0.959)	713274	20.0000	21(H)	
20 Benzo(k)fluoranthene	252		12.620	12.620	(0.962)	701401	20.0000	20(H)	
21 Benzo(a)pyrene	252		13.032	13.032	(0.993)	696714	20.0000	20(H)	
23 Indeno(1,2,3-cd)pyrene	276		14.706	14.706	(1.121)	768192	20.0000	21(MH)	
24 Dibenzo(a,h)anthracene	278		14.735	14.735	(1.123)	695736	20.0000	20(H)	
25 Benzo(g,h,i)perylene	276		15.141	15.141	(1.154)	718929	20.0000	20(H)	

QC Flag Legend

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

Data File: 1DD23004.D

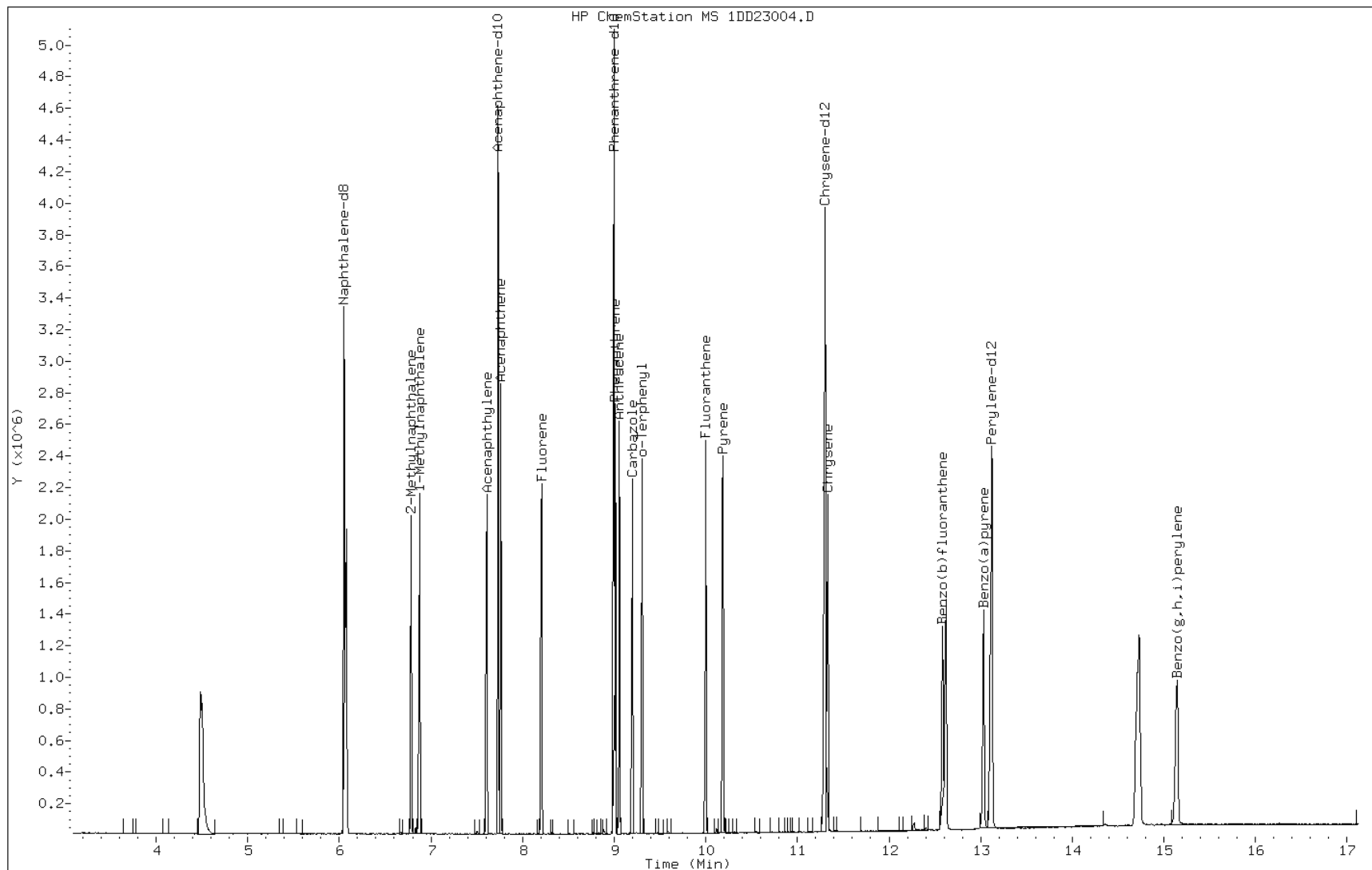
Date: 23-APR-2013 13:06

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC

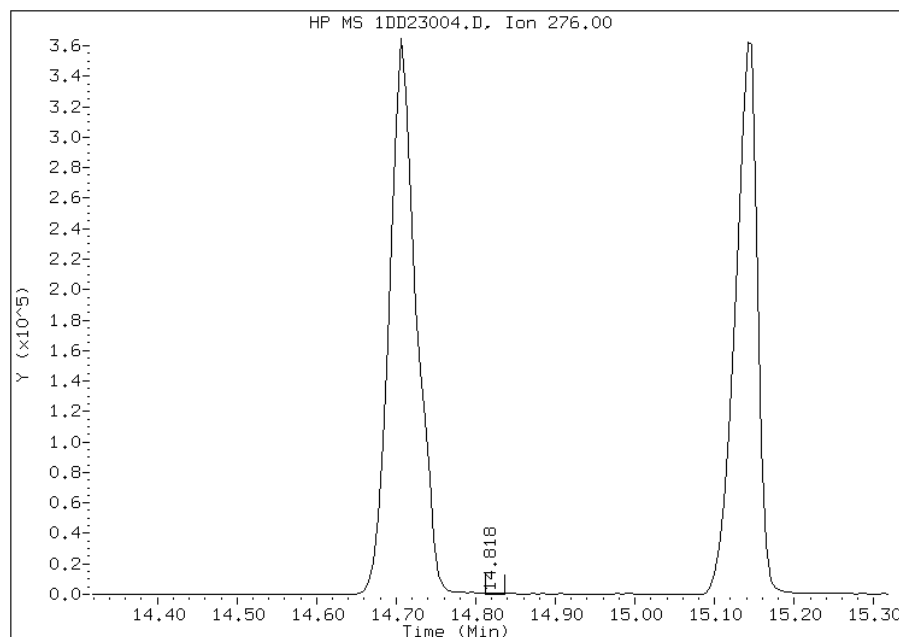


Manual Integration Report

Data File: 1DD23004.D
Inj. Date and Time: 23-APR-2013 13:06
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

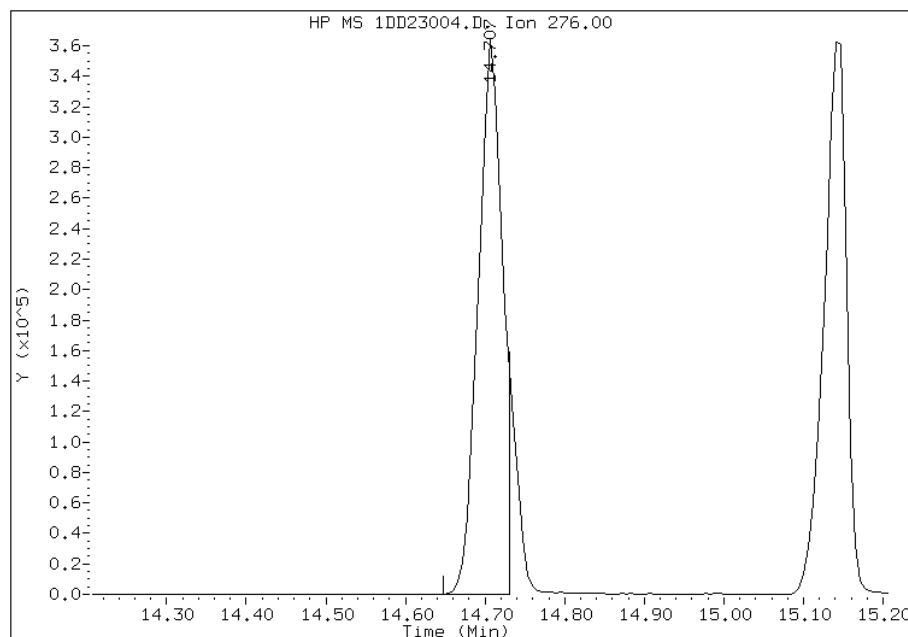
Processing Integration Results

RT: 14.82
Response: 582
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.71
Response: 768192
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 14:48
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89459-1
 SDG No.: 68089459-1
 Lab Sample ID: CCVIS 660-136826/3 Calibration Date: 04/24/2013 12:46
 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: 1DD24003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9843	0.0000	19800	20000	-1.0	20.0
2-Methylnaphthalene	Ave	0.6418	0.6520	0.0000	20300	20000	1.6	20.0
1-Methylnaphthalene	Ave	0.6061	0.6079	0.0000	20100	20000	0.3	20.0
Acenaphthylene	Ave	1.693	1.701	0.0000	20100	20000	0.5	20.0
Acenaphthene	Ave	1.045	1.013	0.0000	19400	20000	-3.0	20.0
Fluorene	Ave	1.238	1.211	0.0000	19600	20000	-2.1	20.0
Phenanthrene	Ave	1.102	1.090	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.094	1.104	0.0000	20200	20000	0.9	20.0
Carbazole	Ave	0.9646	0.9520	0.0000	19700	20000	-1.3	20.0
Fluoranthene	Ave	1.134	1.150	0.0000	20300	20000	1.4	20.0
Pyrene	Ave	1.201	1.188	0.0000	19800	20000	-1.1	20.0
Benzo[a]anthracene	Ave	1.156	1.048	0.0000	18100	20000	-9.4	20.0
Chrysene	Ave	1.084	1.041	0.0000	19200	20000	-4.0	20.0
Benzo[b]fluoranthene	Ave	0.999	1.025	0.0000	20500	20000	2.5	20.0
Benzo[k]fluoranthene	Ave	1.053	1.002	0.0000	19000	20000	-4.8	20.0
Benzo[a]pyrene	Ave	1.004	0.996	0.0000	19800	20000	-0.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.052	0.0000	19700	20000	-1.7	20.0
Dibenz(a,h)anthracene	Ave	1.008	0.9940	0.0000	19700	20000	-1.4	20.0
Benzo[g,h,i]perylene	Ave	1.031	1.007	0.0000	19500	20000	-2.3	20.0
o-Terphenyl	Ave	0.6027	0.6143	0.0000	20400	20000	1.9	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24003.D
Lab Smp Id: CCV-1531401
Inj Date : 24-APR-2013 12:46
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.049	6.049	(1.000)	2248073	40.0000		(H)
* 6 Acenaphthene-d10	164		7.730	7.730	(1.000)	1360336	40.0000		
* 9 Phenanthrene-d10	188		8.993	8.993	(1.000)	2236773	40.0000		
\$ 13 o-Terphenyl	230		9.298	9.298	(1.034)	686999	20.0000	20	
* 17 Chrysene-d12	240		11.302	11.302	(1.000)	2287204	40.0000		(H)
* 22 Perylene-d12	264		13.123	13.123	(1.000)	2285243	40.0000		(H)
2 Naphthalene	128		6.073	6.073	(1.004)	1106362	20.0000	20(H)	
3 2-Methylnaphthalene	142		6.778	6.778	(1.120)	732819	20.0000	20(H)	
4 1-Methylnaphthalene	142		6.872	6.872	(1.136)	683316	20.0000	20(H)	
5 Acenaphthylene	152		7.600	7.600	(0.983)	1156826	20.0000	20	
7 Acenaphthene	154		7.759	7.759	(1.004)	689345	20.0000	19	
8 Fluorene	166		8.200	8.200	(1.061)	823682	20.0000	20	
10 Phenanthrene	178		9.010	9.010	(1.002)	1218790	20.0000	20	
11 Anthracene	178		9.052	9.052	(1.007)	1234412	20.0000	20	
12 Carbazole	167		9.193	9.193	(1.022)	1064684	20.0000	20	
14 Fluoranthene	202		9.997	9.997	(1.112)	1285768	20.0000	20	
15 Pyrene	202		10.185	10.185	(0.901)	1358518	20.0000	20(H)	
16 Benzo(a)anthracene	228		11.284	11.284	(0.998)	1198684	20.0000	18(H)	
18 Chrysene	228		11.331	11.331	(1.003)	1189923	20.0000	19(H)	
19 Benzo(b)fluoranthene	252		12.583	12.583	(0.959)	1170718	20.0000	20(H)	
20 Benzo(k)fluoranthene	252		12.618	12.618	(0.961)	1145013	20.0000	19(H)	
21 Benzo(a)pyrene	252		13.029	13.029	(0.993)	1138342	20.0000	20(H)	
23 Indeno(1,2,3-cd)pyrene	276		14.710	14.710	(1.121)	1202370	20.0000	20(MH)	
24 Dibenzo(a,h)anthracene	278		14.733	14.733	(1.123)	1135731	20.0000	20(H)	
25 Benzo(g,h,i)perylene	276		15.150	15.150	(1.154)	1150367	20.0000	20(H)	

QC Flag Legend

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

Data File: 1DD24003.D

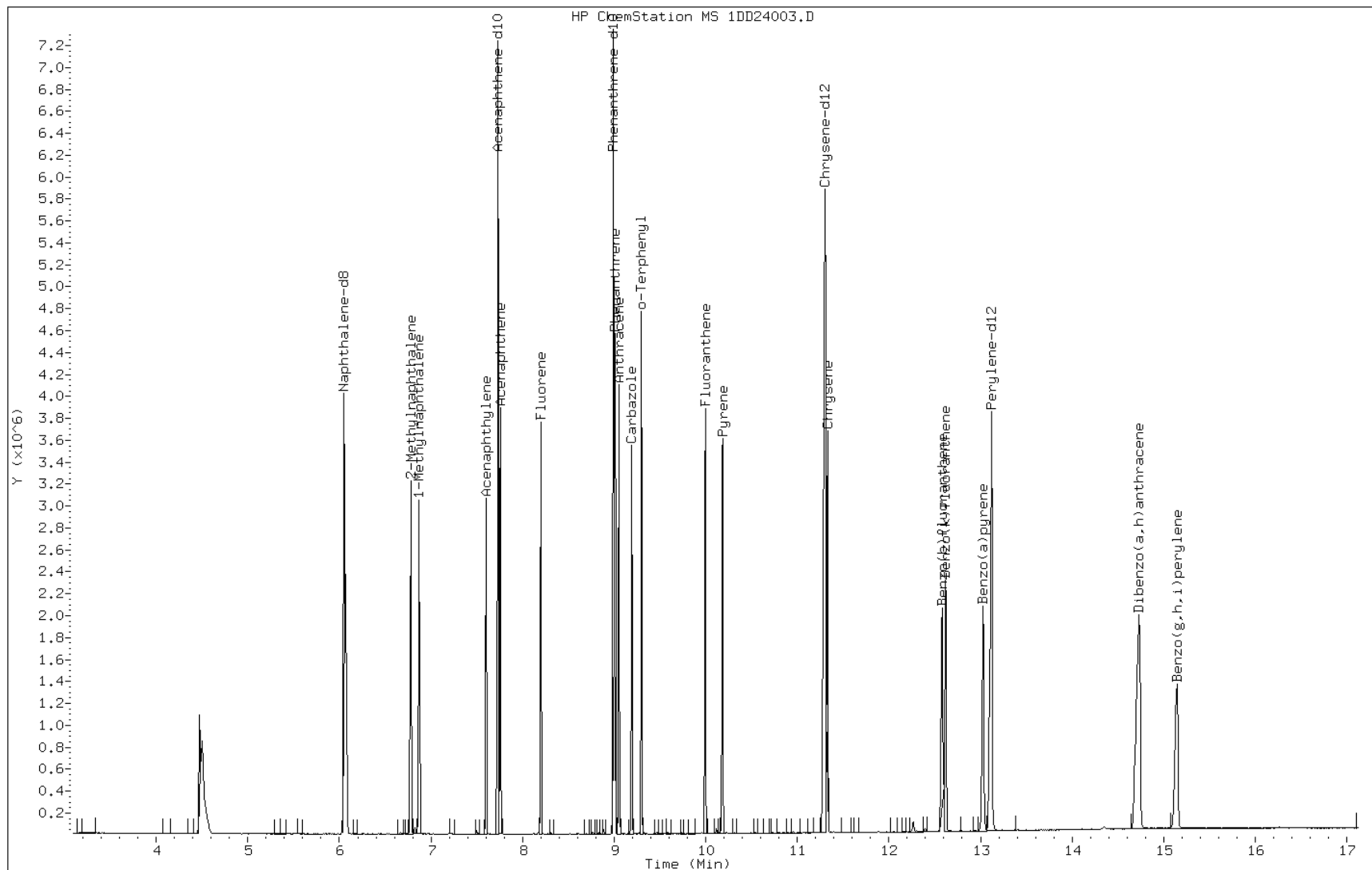
Date: 24-APR-2013 12:46

Client ID:

Instrument: BSMSD.i

Sample Info: CCV-1531401

Operator: SCC



Manual Integration Report

Data File: 1DD24003.D
Inj. Date and Time: 24-APR-2013 12:46
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

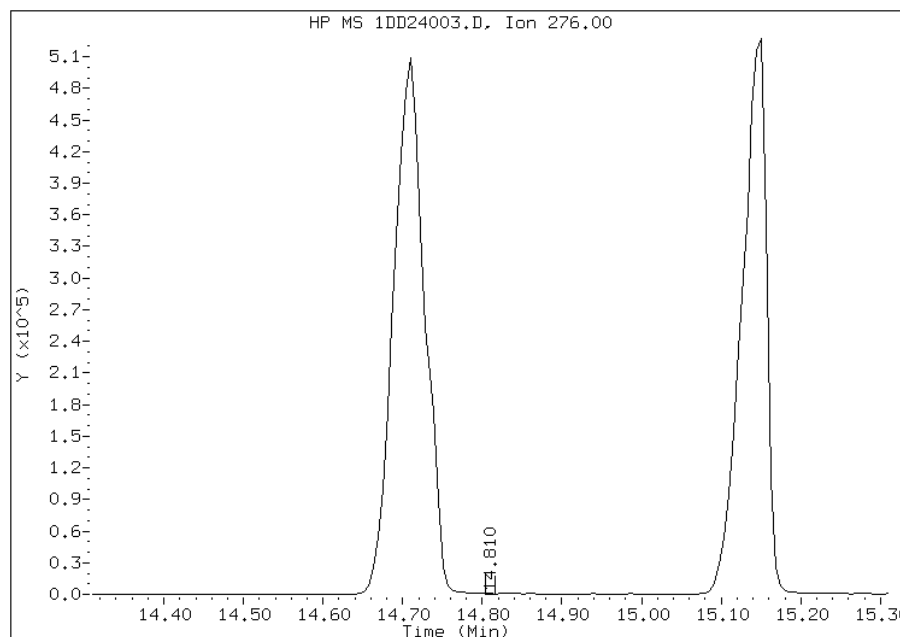
Processing Integration Results

RT: 14.81

Response: 268

Amount: 0

Conc: 0



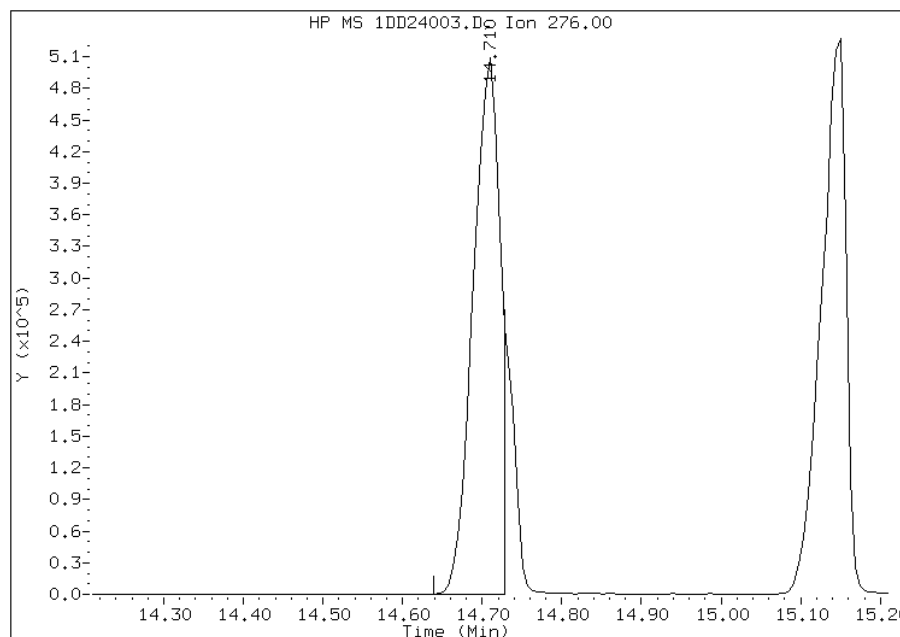
Manual Integration Results

RT: 14.71

Response: 1202370

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:06
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 11-APR-2013 11:38
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS								
				ON-COL	FINAL			
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
=====	=====	=====	=====	=====	=====	=====	=====	=====
1 dftpp				CAS #: 5074-71-5				
7.269	7.469	-0.200	198	54472			50.00- 0.00	100.00
7.269	7.469	-0.200	51	21074			10.00- 80.00	38.69
7.269	7.469	-0.200	68	353			0.00- 2.00	1.33
7.269	7.469	-0.200	69	26600			0.00- 0.00	48.83
7.269	7.469	-0.200	70	132			0.00- 2.00	0.50
7.269	7.469	-0.200	127	25024			10.00- 80.00	45.94
7.269	7.469	-0.200	197	448			0.00- 2.00	0.82
7.269	7.469	-0.200	442	41796			50.00- 0.00	76.73
7.269	7.469	-0.200	199	3165			5.00- 9.00	5.81
7.269	7.469	-0.200	275	11356			10.00- 60.00	20.85
7.269	7.469	-0.200	365	2771			1.00- 0.00	5.09
7.269	7.469	-0.200	441	5680			0.01- 99.99	64.97
7.269	7.469	-0.200	443	8743			15.00- 24.00	20.92

Data File: 1CD11002.D

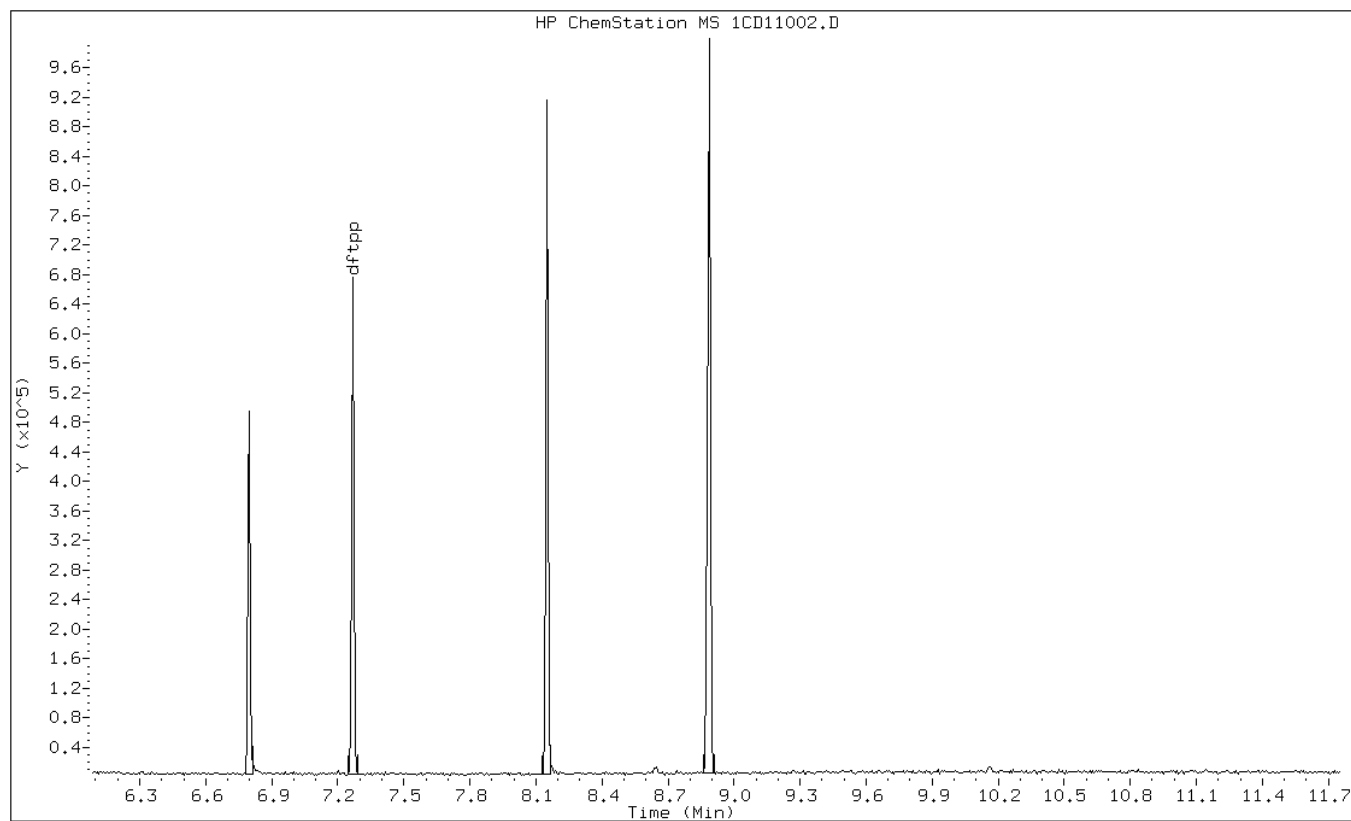
Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD11002.D

Date: 11-APR-2013 11:38

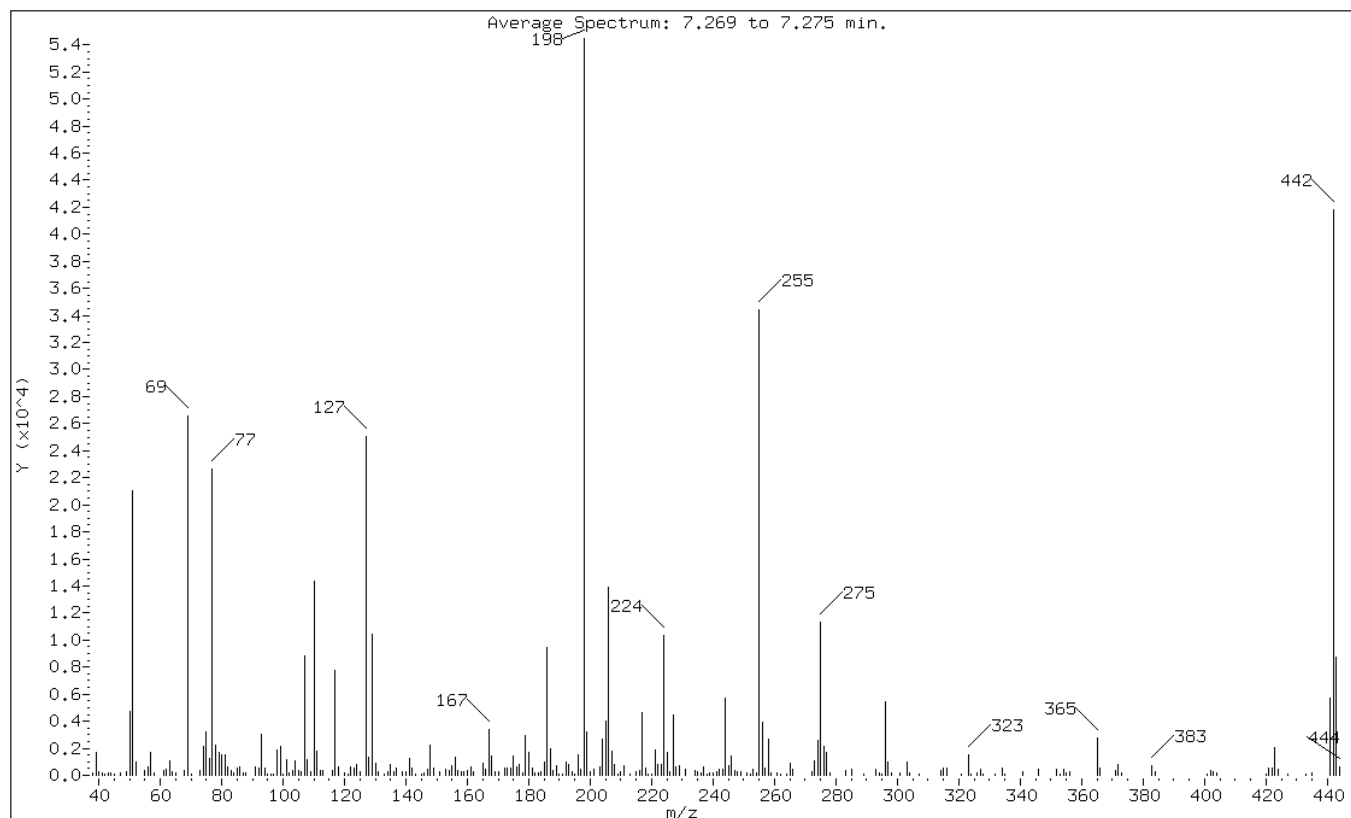
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	38.69
68	Less than 2.00% of mass 69	0.65 (1.33)
69	Mass 69 relative abundance	48.83
70	Less than 2.00% of mass 69	0.24 (0.50)
127	10.00 - 80.00% of mass 198	45.94
197	Less than 2.00% of mass 198	0.82
442	Greater than 50.00% of mass 198	76.73
199	5.00 - 9.00% of mass 198	5.81
275	10.00 - 60.00% of mass 198	20.85
365	Greater than 1.00% of mass 198	5.09
441	Present, but less than mass 443	10.43
443	15.00 - 24.00% of mass 442	16.05 (20.92)

Data File: 1CD11002.D

Date: 11-APR-2013 11:38

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C041113.b\1CD11002.D
Spectrum: Average Spectrum: 7.269 to 7.275 min.
Location of Maximum: 198.00
Number of points: 258

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	141	117.00	7792	192.00	941	266.00	463
39.00	1700	118.00	633	193.00	768	272.00	261
40.00	309	120.00	172	194.00	248	273.00	1086
41.00	212	121.00	81	195.00	118	274.00	2545
42.00	101	122.00	618	196.00	1486	275.00	11356
43.00	189	123.00	527	197.00	448	276.00	2162
44.00	218	124.00	760	198.00	54472	277.00	1668
45.00	75	125.00	297	199.00	3165	278.00	173
47.00	138	127.00	25024	200.00	261	283.00	397
49.00	296	128.00	1379	201.00	429	285.00	405
50.00	4728	129.00	10387	203.00	647	289.00	86
51.00	21072	130.00	905	204.00	2694	293.00	463
52.00	978	131.00	241	205.00	4012	294.00	163
55.00	372	133.00	76	206.00	13898	295.00	117
56.00	660	134.00	248	207.00	1801	296.00	5458
57.00	1715	135.00	839	208.00	802	297.00	985
58.00	143	136.00	263	209.00	108	298.00	186
61.00	354	137.00	547	210.00	311	301.00	140
62.00	440	139.00	248	211.00	692	303.00	973
63.00	1027	140.00	294	213.00	120	304.00	144
64.00	238	141.00	1264	215.00	302	307.00	75
65.00	219	142.00	522	216.00	382	314.00	371
68.00	353	143.00	119	217.00	4620	315.00	576
69.00	26600	145.00	86	218.00	501	316.00	571
70.00	132	146.00	154	219.00	78	321.00	122
73.00	387	147.00	484	220.00	83	323.00	1548
74.00	2154	148.00	2234	221.00	1909	324.00	106
75.00	3222	149.00	536	222.00	834	326.00	171
76.00	1231	151.00	277	223.00	833	327.00	475
77.00	22680	153.00	451	224.00	10305	328.00	129
78.00	2251	154.00	375	225.00	1699	332.00	90
79.00	1660	155.00	715	226.00	238	334.00	515
80.00	1523	156.00	1323	227.00	4427	335.00	88
81.00	1506	157.00	341	228.00	659	341.00	287
82.00	620	158.00	298	229.00	722	346.00	477
83.00	331	159.00	250	231.00	478	352.00	473
84.00	218	160.00	328	234.00	330	353.00	129
85.00	517	161.00	632	235.00	268	354.00	476
86.00	662	162.00	296	236.00	196	355.00	177
87.00	149	165.00	863	237.00	643	356.00	231

88.00	168	166.00	456	238.00	130	365.00	2771
91.00	638	167.00	3403	239.00	186	366.00	577
92.00	550	168.00	1471	240.00	203	371.00	326
93.00	3050	169.00	283	241.00	259	372.00	767
94.00	543	170.00	226	242.00	421	373.00	136
+-----+-----+-----+-----+-----+-----+-----+-----+							
95.00	78	172.00	552	243.00	420	383.00	710
96.00	80	173.00	512	244.00	5690	384.00	290
97.00	97	174.00	492	245.00	728	401.00	123
98.00	1840	175.00	1453	246.00	1454	402.00	322
99.00	2133	176.00	612	247.00	328	403.00	283
+-----+-----+-----+-----+-----+-----+-----+-----+							
100.00	97	177.00	818	248.00	255	404.00	187
101.00	1184	178.00	192	249.00	296	420.00	101
102.00	161	179.00	2908	251.00	152	421.00	556
103.00	325	180.00	1670	252.00	78	422.00	509
104.00	1088	181.00	547	253.00	422	423.00	2034
+-----+-----+-----+-----+-----+-----+-----+-----+							
105.00	339	182.00	219	254.00	220	424.00	428
106.00	305	183.00	208	255.00	34392	427.00	77
107.00	8863	184.00	269	256.00	3905	433.00	77
108.00	1145	185.00	954	257.00	538	435.00	142
109.00	309	186.00	9451	258.00	2671	441.00	5680
+-----+-----+-----+-----+-----+-----+-----+-----+							
110.00	14323	187.00	1971	259.00	192	442.00	41792
111.00	1814	188.00	326	261.00	196	443.00	8743
112.00	372	189.00	673	262.00	109	444.00	645
113.00	319	190.00	129	264.00	98		
116.00	324	191.00	101	265.00	936		
+-----+-----+-----+-----+-----+-----+-----+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-APR-2013 11:33
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.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				
7.245	7.469	-0.224	198	33172			50.00-	0.00	100.00
7.245	7.469	-0.224	51	19866			10.00-	80.00	59.89
7.245	7.469	-0.224	68	380			0.00-	2.00	1.88
7.245	7.469	-0.224	69	20205			0.00-	0.00	60.91
7.245	7.469	-0.224	70	229			0.00-	2.00	1.13
7.245	7.469	-0.224	127	18677			10.00-	80.00	56.30
7.245	7.469	-0.224	197	232			0.00-	2.00	0.70
7.245	7.469	-0.224	442	24156			50.00-	0.00	72.82
7.245	7.469	-0.224	199	2591			5.00-	9.00	7.81
7.245	7.469	-0.224	275	9466			10.00-	60.00	28.54
7.245	7.469	-0.224	365	2299			1.00-	0.00	6.93
7.245	7.469	-0.224	441	3919			0.01-	99.99	77.97
7.245	7.469	-0.224	443	5026			15.00-	24.00	20.81

Data File: 1CD22002.D

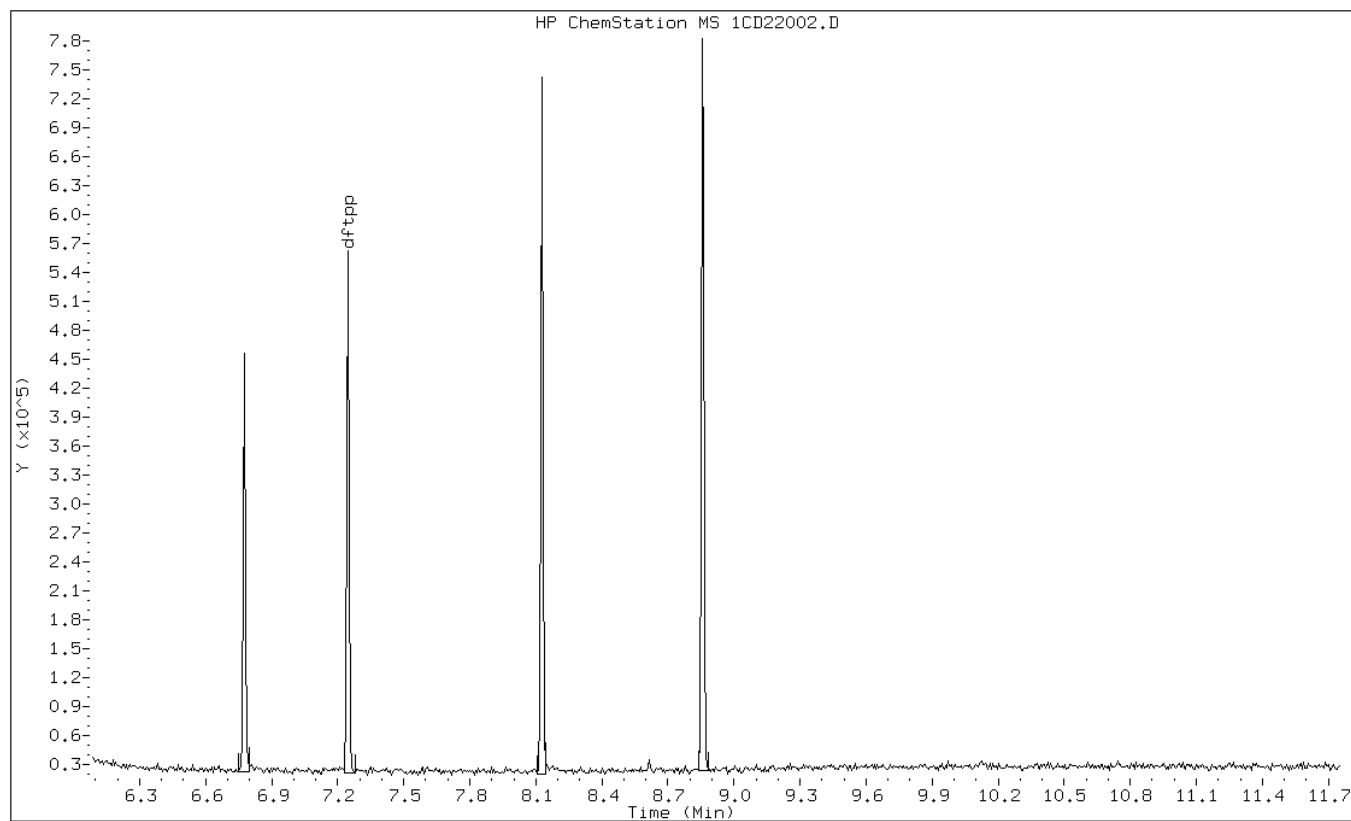
Date: 22-APR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1CD22002.D

Date: 22-APR-2013 11:33

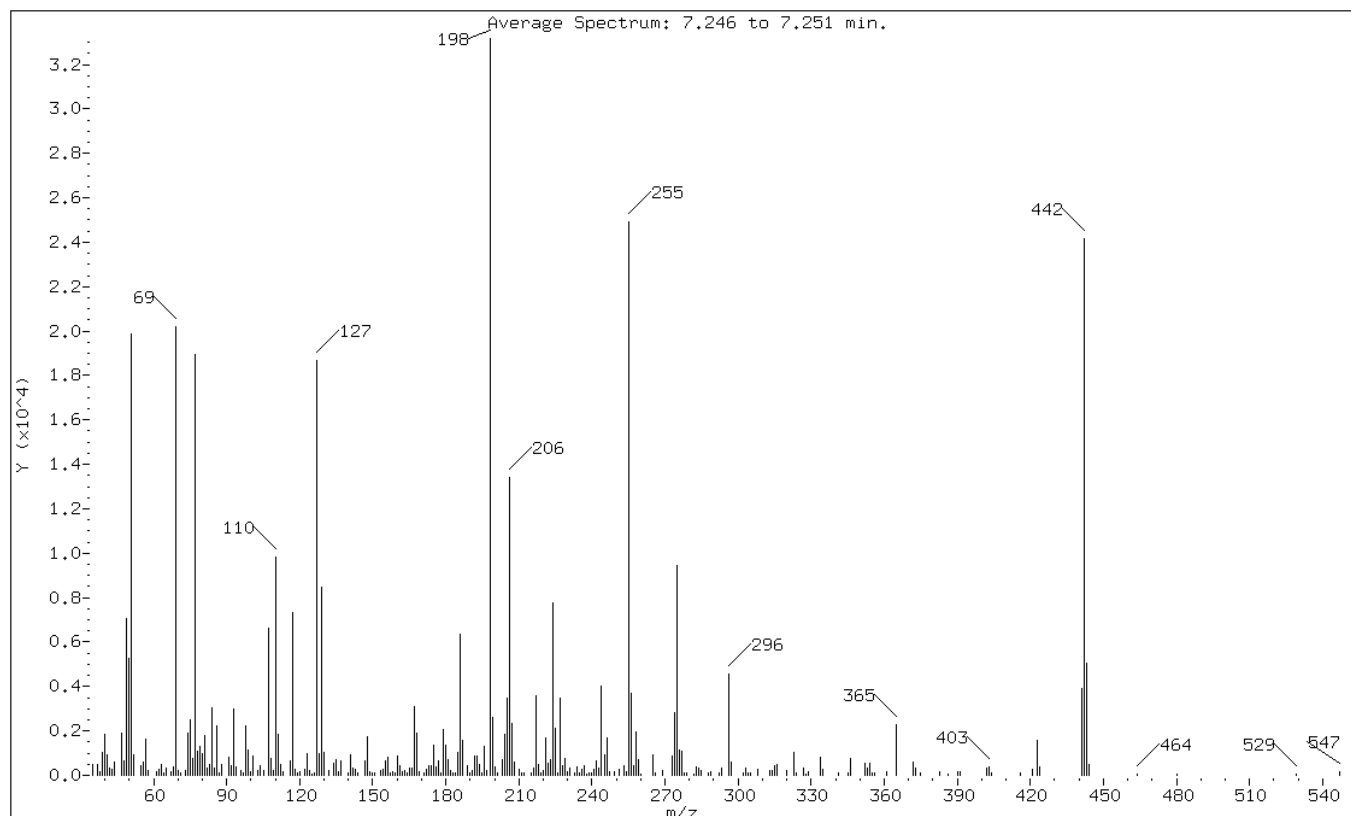
Client ID: DFTPP

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	59.89
68	Less than 2.00% of mass 69	1.15 (1.88)
69	Mass 69 relative abundance	60.91
70	Less than 2.00% of mass 69	0.69 (1.13)
127	10.00 - 80.00% of mass 198	56.30
197	Less than 2.00% of mass 198	0.70
442	Greater than 50.00% of mass 198	72.82
199	5.00 - 9.00% of mass 198	7.81
275	10.00 - 60.00% of mass 198	28.54
365	Greater than 1.00% of mass 198	6.93
441	Present, but less than mass 443	11.81
443	15.00 - 24.00% of mass 442	15.15 (20.81)

Data File: 1CD22002.D

Date: 22-APR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22002.D
Spectrum: Average Spectrum: 7.246 to 7.251 min.
Location of Maximum: 198.00
Number of points: 261

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	469	117.00	7316	193.00	851	276.00	1162
37.00	479	118.00	245	194.00	470	277.00	1088
38.00	188	119.00	89	195.00	85	278.00	105
39.00	1036	120.00	185	196.00	1312	279.00	130
40.00	1832	122.00	288	197.00	232	282.00	81
41.00	936	123.00	966	198.00	33168	283.00	374
42.00	316	124.00	227	199.00	2591	284.00	311
43.00	255	125.00	78	200.00	394	285.00	236
44.00	618	126.00	98	201.00	85	288.00	87
47.00	1901	127.00	18672	203.00	727	289.00	150
48.00	625	128.00	974	204.00	1864	292.00	100
49.00	7041	129.00	8478	205.00	3481	293.00	347
50.00	5261	130.00	1029	206.00	13415	296.00	4587
51.00	19864	132.00	234	207.00	2317	297.00	620
52.00	897	134.00	529	208.00	619	302.00	102
55.00	441	135.00	693	210.00	285	303.00	337
56.00	597	136.00	173	211.00	121	304.00	100
57.00	1643	137.00	636	212.00	115	305.00	97
58.00	203	140.00	100	215.00	128	308.00	295
61.00	146	141.00	899	216.00	335	313.00	206
62.00	255	142.00	347	217.00	3591	314.00	232
63.00	464	143.00	274	218.00	504	315.00	446
64.00	119	144.00	97	219.00	107	316.00	477
65.00	351	147.00	632	220.00	195	320.00	203
67.00	178	148.00	1726	221.00	1701	323.00	1018
68.00	380	149.00	148	222.00	521	324.00	96
69.00	20200	150.00	121	223.00	702	327.00	311
70.00	229	151.00	104	224.00	7764	328.00	81
71.00	100	153.00	201	225.00	2090	329.00	152
73.00	203	154.00	251	226.00	118	334.00	809
74.00	1880	155.00	636	227.00	3490	335.00	277
75.00	2480	156.00	811	228.00	432	341.00	123
76.00	736	157.00	91	229.00	739	345.00	113
77.00	18968	158.00	186	230.00	168	346.00	747
78.00	1112	159.00	115	231.00	352	352.00	567
79.00	1312	160.00	856	233.00	128	353.00	314
80.00	996	161.00	419	234.00	374	354.00	560
81.00	1794	162.00	184	235.00	130	355.00	131
82.00	341	163.00	234	236.00	276	356.00	84
83.00	502	164.00	89	237.00	448	361.00	154

84.00	3064	165.00	326	238.00	81	365.00	2299
85.00	318	166.00	318	239.00	114	372.00	592
86.00	2231	167.00	3095	240.00	104	373.00	328
87.00	99	168.00	1907	241.00	263	375.00	95
88.00	467	169.00	167	242.00	649	383.00	189
91.00	831	171.00	106	243.00	351	386.00	79
92.00	450	172.00	266	244.00	4039	390.00	156
93.00	2990	173.00	434	245.00	912	391.00	155
94.00	357	174.00	424	246.00	1698	402.00	335
96.00	204	175.00	1361	247.00	140	403.00	353
97.00	107	176.00	371	249.00	155	404.00	103
98.00	2227	177.00	671	251.00	266	416.00	131
99.00	1162	178.00	90	253.00	412	421.00	256
100.00	153	179.00	2062	254.00	173	423.00	1565
101.00	853	180.00	1344	255.00	24904	424.00	366
103.00	232	181.00	687	256.00	3709	441.00	3919
104.00	418	182.00	243	257.00	425	442.00	24152
105.00	203	183.00	94	258.00	1932	443.00	5026
107.00	6626	184.00	98	259.00	702	444.00	508
108.00	767	185.00	1008	260.00	75	464.00	80
109.00	226	186.00	6340	265.00	927	480.00	76
110.00	9851	187.00	1588	266.00	125	529.00	79
111.00	1842	189.00	426	269.00	191	547.00	169
112.00	462	190.00	88	273.00	869		
113.00	139	191.00	233	274.00	2838		
116.00	657	192.00	885	275.00	9466		

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

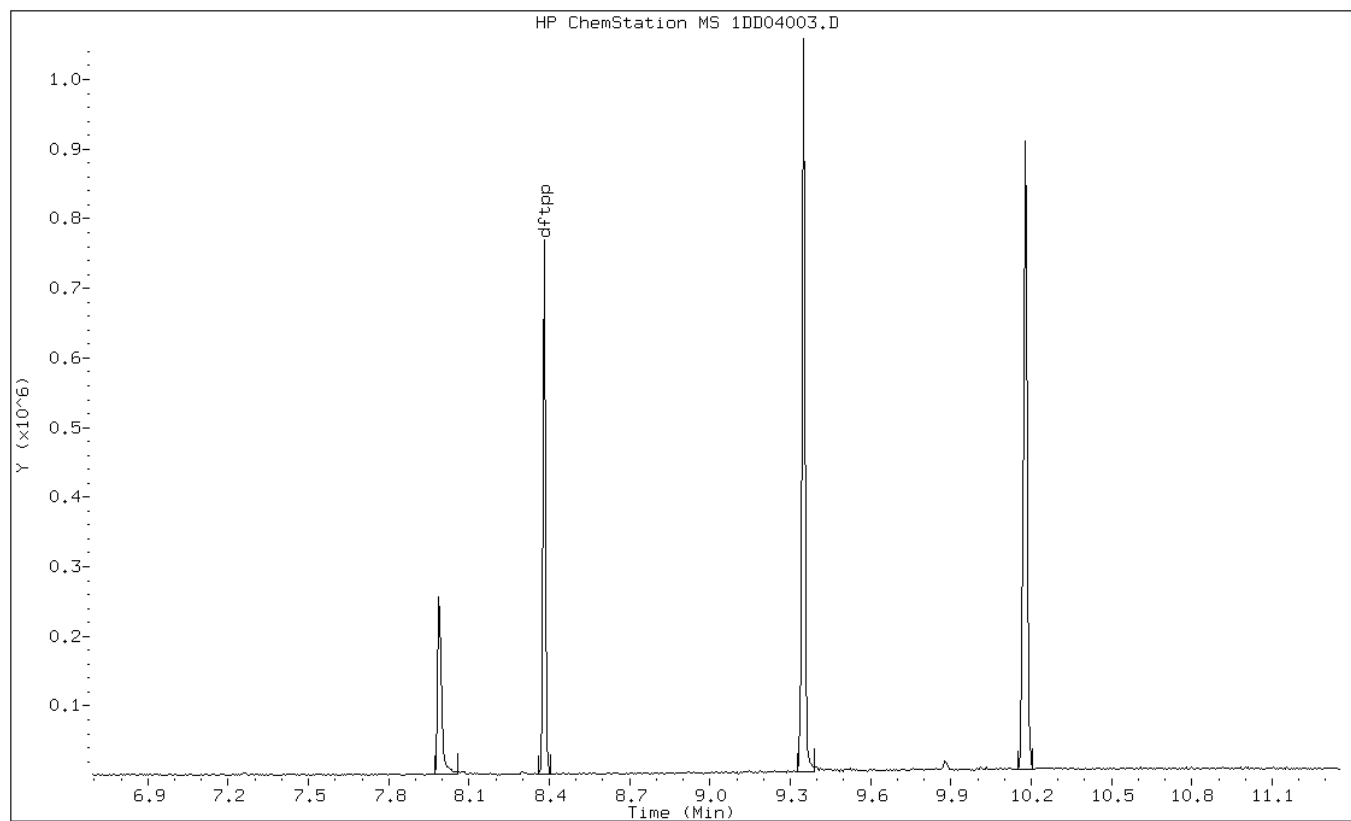
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD04003.D

Date: 04-APR-2013 12:15

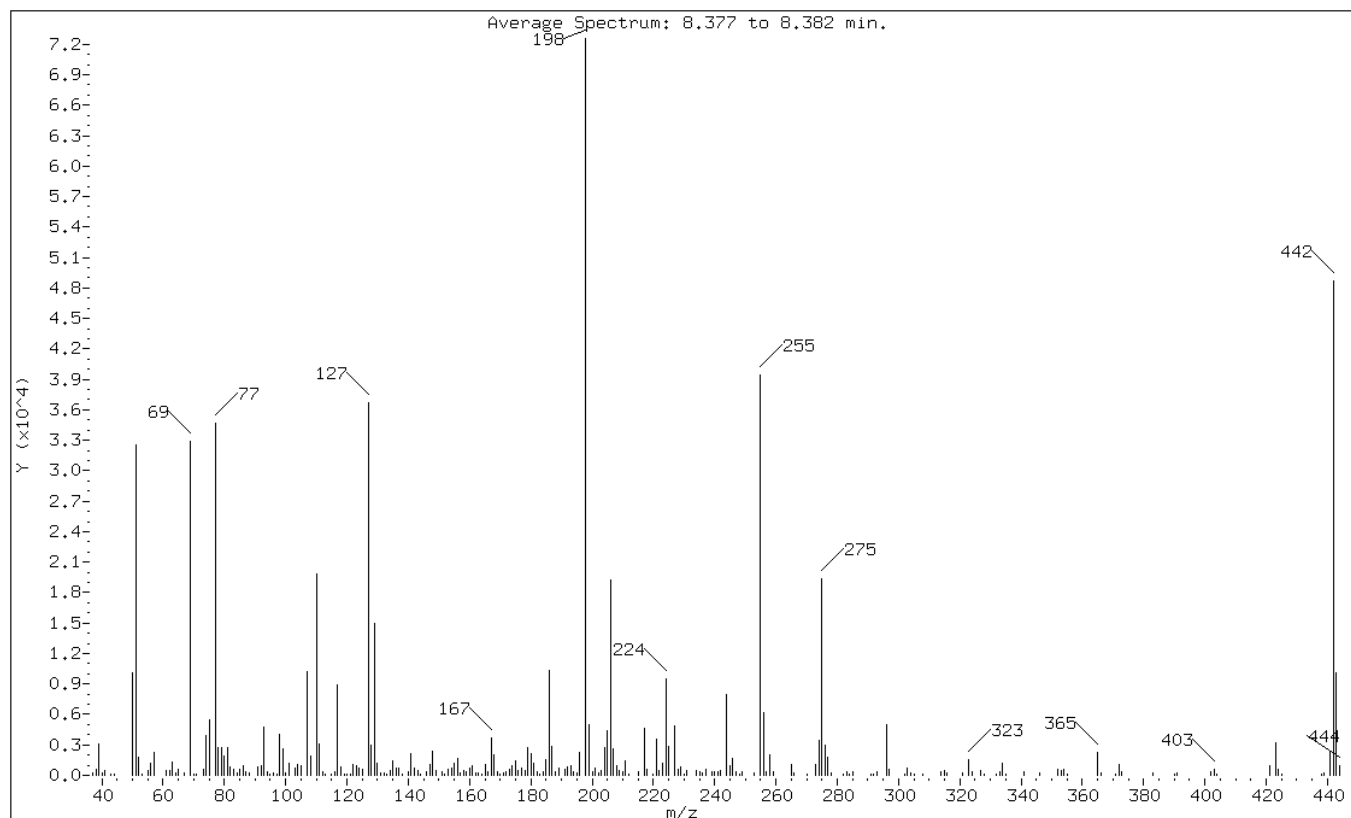
Client ID: DFTPP

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\1D042313.b\1DD23003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 23-APR-2013 12:50
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.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				
8.349	8.532	-0.183	198	62708			50.00-	0.00	100.00
8.349	8.532	-0.183	51	26699			10.00-	80.00	42.58
8.349	8.532	-0.183	68	0	0.0	0.0	0.00-	2.00	0.00
8.349	8.532	-0.183	69	26024			0.00-	0.00	41.50
8.349	8.532	-0.183	70	130			0.00-	2.00	0.50
8.349	8.532	-0.183	127	31676			10.00-	80.00	50.51
8.349	8.532	-0.183	197	421			0.00-	2.00	0.67
8.349	8.532	-0.183	442	59344			50.00-	0.00	94.64
8.349	8.532	-0.183	199	4475			5.00-	9.00	7.14
8.349	8.532	-0.183	275	18977			10.00-	60.00	30.26
8.349	8.532	-0.183	365	2543			1.00-	0.00	4.06
8.349	8.532	-0.183	441	4731			0.01-	99.99	40.74
8.349	8.532	-0.183	443	11614			15.00-	24.00	19.57

Data File: 1DD23003.D

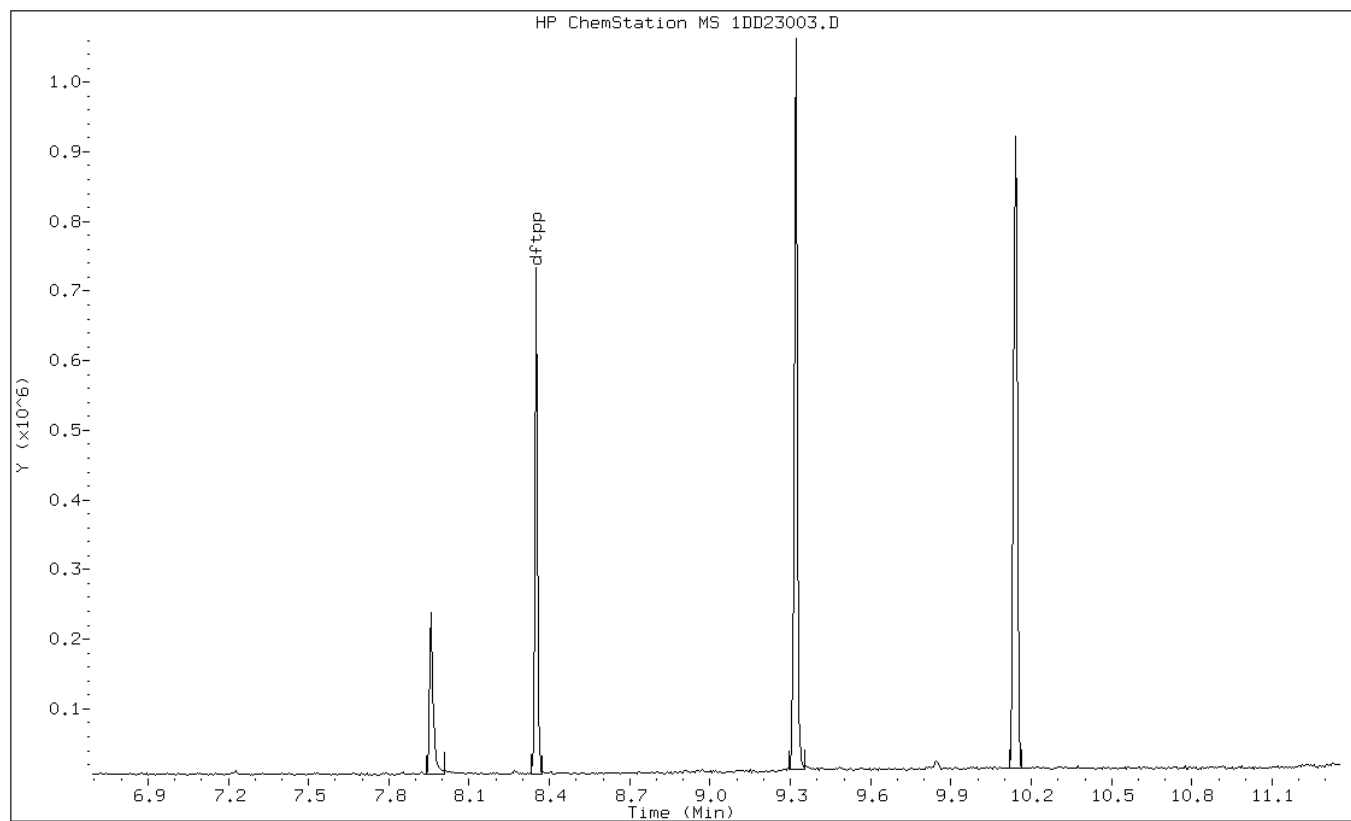
Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD23003.D

Date: 23-APR-2013 12:50

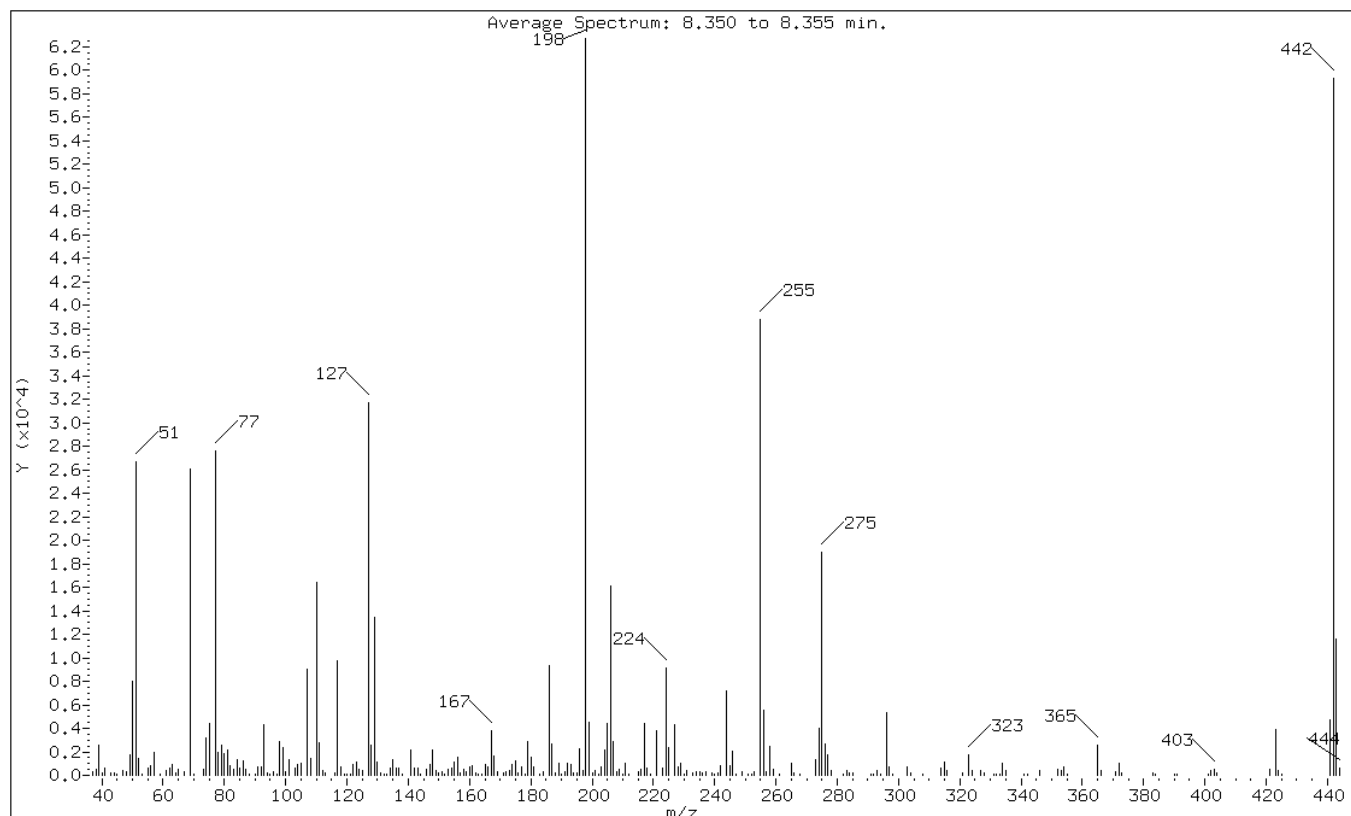
Client ID: DFTPP

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	42.58
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.50
70	Less than 2.00% of mass 69	0.21 (0.50)
127	10.00 - 80.00% of mass 198	50.51
197	Less than 2.00% of mass 198	0.67
442	Greater than 50.00% of mass 198	94.64
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 60.00% of mass 198	30.26
365	Greater than 1.00% of mass 198	4.06
441	Present, but less than mass 443	7.54
443	15.00 - 24.00% of mass 442	18.52 (19.57)

Data File: 1DD23003.D

Date: 23-APR-2013 12:50

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23003.D
Spectrum: Average Spectrum: 8.350 to 8.355 min.
Location of Maximum: 198.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	257	117.00	9760	188.00	191	268.00	75
38.00	552	118.00	756	189.00	1034	273.00	1309
39.00	2568	119.00	149	190.00	132	274.00	3966
40.00	169	120.00	104	191.00	344	275.00	18976
41.00	645	121.00	83	192.00	978	276.00	2621
43.00	231	122.00	944	193.00	946	277.00	1750
44.00	240	123.00	1176	194.00	249	278.00	364
45.00	102	124.00	469	195.00	173	282.00	84
47.00	367	125.00	373	196.00	2266	283.00	394
48.00	275	127.00	31672	197.00	421	284.00	177
49.00	1726	128.00	2594	198.00	62704	285.00	193
50.00	8047	129.00	13446	199.00	4475	291.00	96
51.00	26696	130.00	1080	200.00	191	292.00	85
52.00	1399	131.00	181	201.00	436	293.00	441
53.00	82	132.00	76	202.00	123	294.00	136
55.00	608	133.00	89	203.00	685	296.00	5382
56.00	872	134.00	581	204.00	2173	297.00	741
57.00	1951	135.00	1335	205.00	4445	298.00	84
59.00	107	136.00	567	206.00	16157	303.00	671
61.00	377	137.00	591	207.00	2829	304.00	255
62.00	614	138.00	95	208.00	313	308.00	83
63.00	912	141.00	2105	209.00	556	314.00	600
64.00	241	142.00	615	210.00	124	315.00	1180
65.00	548	143.00	624	211.00	1011	316.00	360
67.00	305	144.00	84	212.00	103	321.00	214
69.00	26024	146.00	464	215.00	353	323.00	1717
70.00	130	147.00	950	216.00	504	324.00	437
73.00	467	148.00	2205	217.00	4408	327.00	426
74.00	3147	149.00	445	218.00	582	328.00	167
75.00	4443	150.00	245	219.00	86	331.00	92
77.00	27584	151.00	264	221.00	3749	332.00	131
78.00	1920	152.00	114	223.00	640	333.00	144
79.00	2523	153.00	511	224.00	9147	334.00	1049
80.00	1825	154.00	632	225.00	2392	335.00	387
81.00	2155	155.00	1167	227.00	4280	341.00	116
82.00	804	156.00	1522	228.00	743	342.00	89
83.00	507	157.00	169	229.00	998	346.00	393
84.00	1321	158.00	484	230.00	87	352.00	564
85.00	617	159.00	349	231.00	433	353.00	423
86.00	1252	160.00	760	233.00	190	354.00	760

87.00	477	161.00	842	234.00	258	355.00	83
88.00	124	162.00	226	235.00	352	365.00	2543
90.00	81	163.00	94	236.00	158	366.00	410
91.00	717	164.00	89	237.00	345	371.00	290
92.00	671	165.00	899	239.00	197	372.00	975
93.00	4319	166.00	728	240.00	99	373.00	188
94.00	207	167.00	3816	241.00	221	383.00	168
95.00	127	168.00	1626	242.00	841	384.00	81
96.00	299	169.00	278	244.00	7218	390.00	149
97.00	106	171.00	244	245.00	864	391.00	81
98.00	2884	172.00	326	246.00	2070	401.00	85
99.00	2385	173.00	391	247.00	127	402.00	429
100.00	322	174.00	886	249.00	278	403.00	558
101.00	1371	175.00	1228	251.00	89	404.00	249
103.00	594	176.00	178	252.00	89	421.00	481
104.00	952	177.00	727	253.00	349	423.00	3883
105.00	984	178.00	75	255.00	38752	424.00	458
107.00	9051	179.00	2835	256.00	5568	425.00	83
108.00	1386	180.00	1570	257.00	270	441.00	4731
110.00	16384	181.00	722	258.00	2427	442.00	59344
111.00	2756	183.00	81	259.00	479	443.00	11614
112.00	445	184.00	309	261.00	76	444.00	590
113.00	163	186.00	9379	265.00	1003		
116.00	192	187.00	2701	266.00	221		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 24-APR-2013 12:30
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.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					
8.344	8.532	-0.188	198	78584			50.00-	0.00	100.00
8.344	8.532	-0.188	51	30672			10.00-	80.00	39.03
8.344	8.532	-0.188	68	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	69	30256			0.00-	0.00	38.50
8.344	8.532	-0.188	70	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	127	36600			10.00-	80.00	46.57
8.344	8.532	-0.188	197	0	0.0	0.0	0.00-	2.00	0.00
8.344	8.532	-0.188	442	71056			50.00-	0.00	90.42
8.344	8.532	-0.188	199	5585			5.00-	9.00	7.11
8.344	8.532	-0.188	275	24632			10.00-	60.00	31.34
8.344	8.532	-0.188	365	3002			1.00-	0.00	3.82
8.344	8.532	-0.188	441	10979			0.01-	99.99	72.76
8.344	8.532	-0.188	443	15089			15.00-	24.00	21.24

Data File: 1DD24002.D

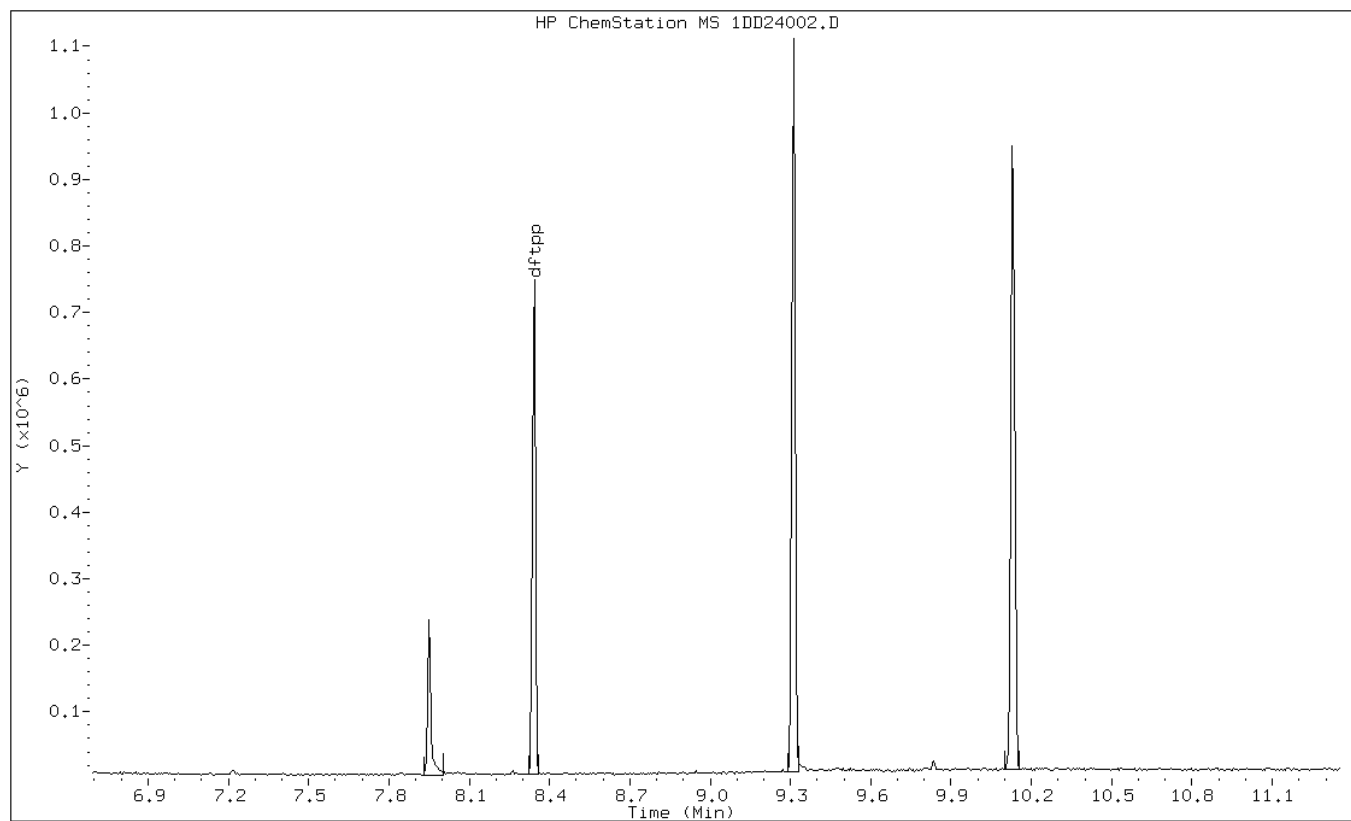
Date: 24-APR-2013 12:30

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DD24002.D

Date: 24-APR-2013 12:30

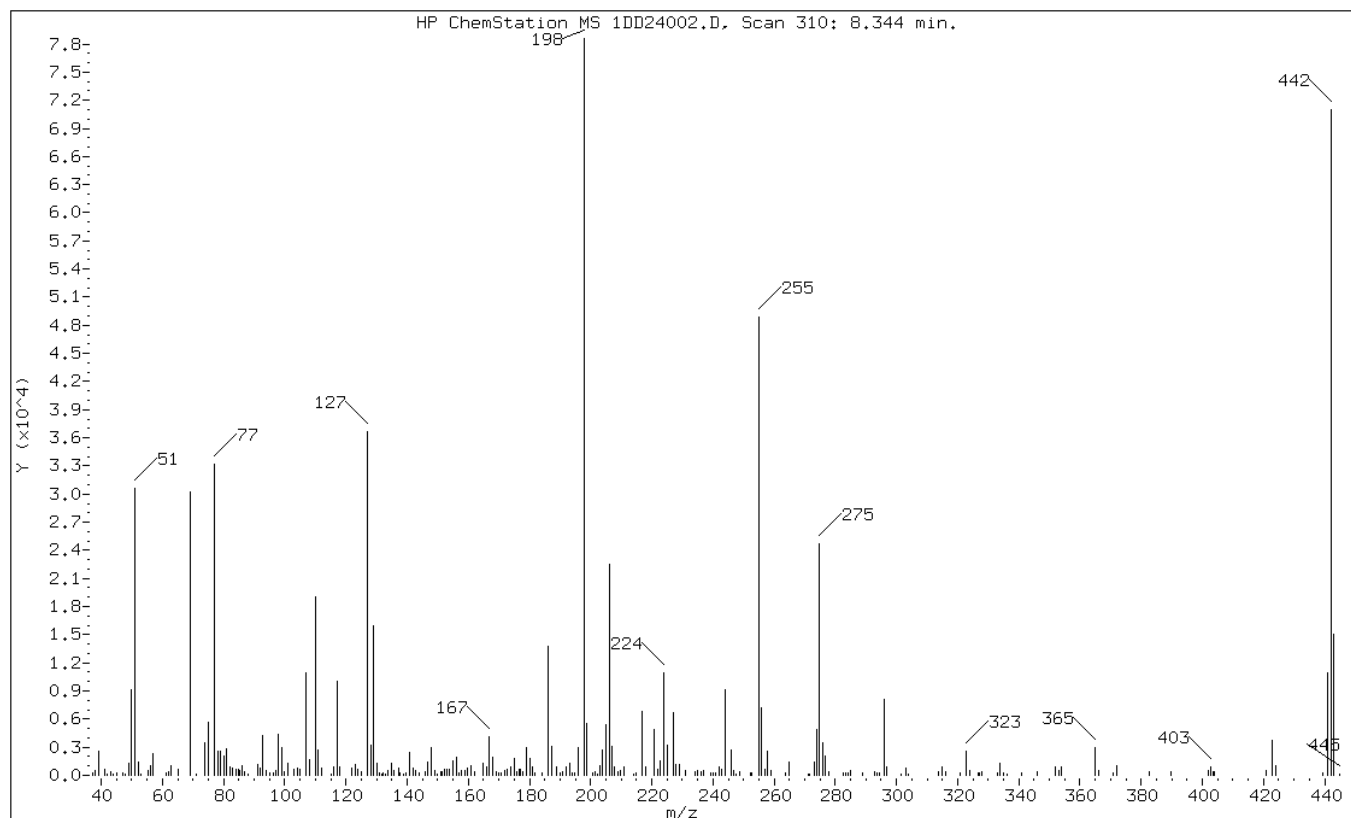
Client ID: DFTPP

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	39.03
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	38.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	46.57
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	90.42
199	5.00 - 9.00% of mass 198	7.11
275	10.00 - 60.00% of mass 198	31.34
365	Greater than 1.00% of mass 198	3.82
441	Present, but less than mass 443	13.97
443	15.00 - 24.00% of mass 442	19.20 (21.24)

Data File: 1DD24002.D

Date: 24-APR-2013 12:30

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24002.D
Spectrum: HP ChemStation MS 1DD24002.D, Scan 310: 8.344 min.
Location of Maximum: 197.90
Number of points: 242

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	290	117.90	851	184.00	320	263.80	209
38.00	561	122.00	798	186.00	13821	264.90	1466
39.10	2537	123.10	1178	187.10	3028	271.00	154
41.00	590	124.00	628	189.00	881	271.70	188
42.10	176	125.10	448	190.20	275	273.10	1387
43.00	331	126.90	36600	190.80	386	273.90	4868
43.90	177	128.00	3264	191.00	392	274.90	24632
44.90	200	128.90	15953	191.90	903	276.00	3528
47.00	267	130.00	1230	193.00	1315	276.80	2072
48.00	187	131.00	225	194.00	273	278.00	336
49.10	1281	131.80	160	194.90	219	282.80	239
50.00	9106	132.30	228	196.00	2967	283.20	205
51.00	30672	133.10	176	197.90	78584	284.00	256
52.10	1470	133.90	504	198.80	5585	284.80	466
53.00	173	135.00	1306	200.50	257	288.80	234
55.20	469	135.80	557	201.30	410	292.80	429
56.00	1078	137.10	797	202.10	158	293.70	275
57.00	2297	137.80	247	203.00	980	294.50	243
61.30	246	138.80	186	204.00	2712	295.90	8047
62.00	379	139.80	246	205.00	5428	296.90	886
63.00	1044	140.90	2492	206.00	22536	301.60	169
65.00	678	141.90	736	207.00	3085	303.10	760
69.00	30256	142.90	491	207.90	867	304.00	162
71.00	191	143.90	218	208.90	419	313.70	366
74.00	3515	145.80	446	209.90	537	315.00	938
75.00	5681	146.90	1381	210.80	952	316.10	447
77.00	33136	147.90	2979	213.90	162	320.90	307
78.00	2580	149.00	544	215.00	241	322.90	2627
78.90	2550	150.00	158	217.00	6870	323.90	469
80.00	2078	151.10	413	217.90	862	326.70	278
81.00	2867	151.40	432	220.90	4832	327.10	251
82.00	901	152.30	596	222.10	583	328.00	404
83.00	810	152.90	699	222.90	1526	333.10	297
84.00	636	153.90	696	224.00	10988	333.90	1260
84.90	699	155.10	1550	224.90	3154	335.00	299
85.20	542	156.00	1897	226.90	6639	336.00	189
86.10	1051	157.10	309	228.00	1124	340.90	288
86.80	351	157.80	463	229.00	1208	346.10	418
88.10	172	158.80	495	230.90	526	352.00	866
91.00	1101	159.90	710	234.00	439	353.00	569

91.90	734	161.00	983	234.90	473	353.90	870
92.90	4181	162.10	326	236.10	406	364.90	3002
93.90	483	164.90	1295	236.80	528	366.00	503
95.00	243	166.00	892	239.10	243	370.80	293
96.10	240	166.90	4151	240.10	300	371.90	993
+-----+							
97.10	498	168.00	1886	240.80	311	382.70	383
98.00	4341	169.20	398	241.00	320	389.90	389
99.00	2902	170.10	297	242.00	912	402.00	506
99.90	358	170.80	289	242.90	670	402.80	879
100.90	1238	171.90	459	244.00	9087	403.50	356
+-----+							
103.00	636	172.90	705	245.90	2719	403.80	362
104.00	826	173.90	925	246.80	518	421.00	558
104.90	705	174.90	1809	247.40	173	423.00	3784
107.00	10950	176.00	429	248.90	408	423.90	1045
108.00	1678	176.50	592	252.20	253	439.40	229
+-----+							
110.00	18984	177.00	643	252.80	306	441.00	10979
111.00	2644	178.00	356	254.90	48872	442.00	71056
112.00	793	178.90	2947	255.90	7171	443.00	15089
115.20	181	180.00	1842	257.00	591	444.90	165
115.90	862	180.80	849	257.80	2635		
+-----+							
117.00	10093	181.90	201	259.00	553		
+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136637/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.41(g)</u>	Date Analyzed: <u>04/22/2013 15:20</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: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22012.D
Lab Smp Id: MB 660-136637/1-A
Inj Date : 22-APR-2013 15:20
Operator : SCC
Smp Info : MB 660-136637/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22012.D
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 12 QC Sample: BLANK
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	15.410	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		3.651	3.651	(1.000)		198118	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		144074	40.0000	
* 10 Phenanthrene-d10	188		5.692	5.680	(1.000)		250592	40.0000	
\$ 14 o-Terphenyl	230		5.939	5.933	(1.043)		24759	6.65611	431.9347
* 18 Chrysene-d12	240		7.621	7.615	(1.000)		308173	40.0000	
* 23 Perylene-d12	264		8.780	8.762	(1.000)		325429	40.0000	

Data File: 1CD22012.D

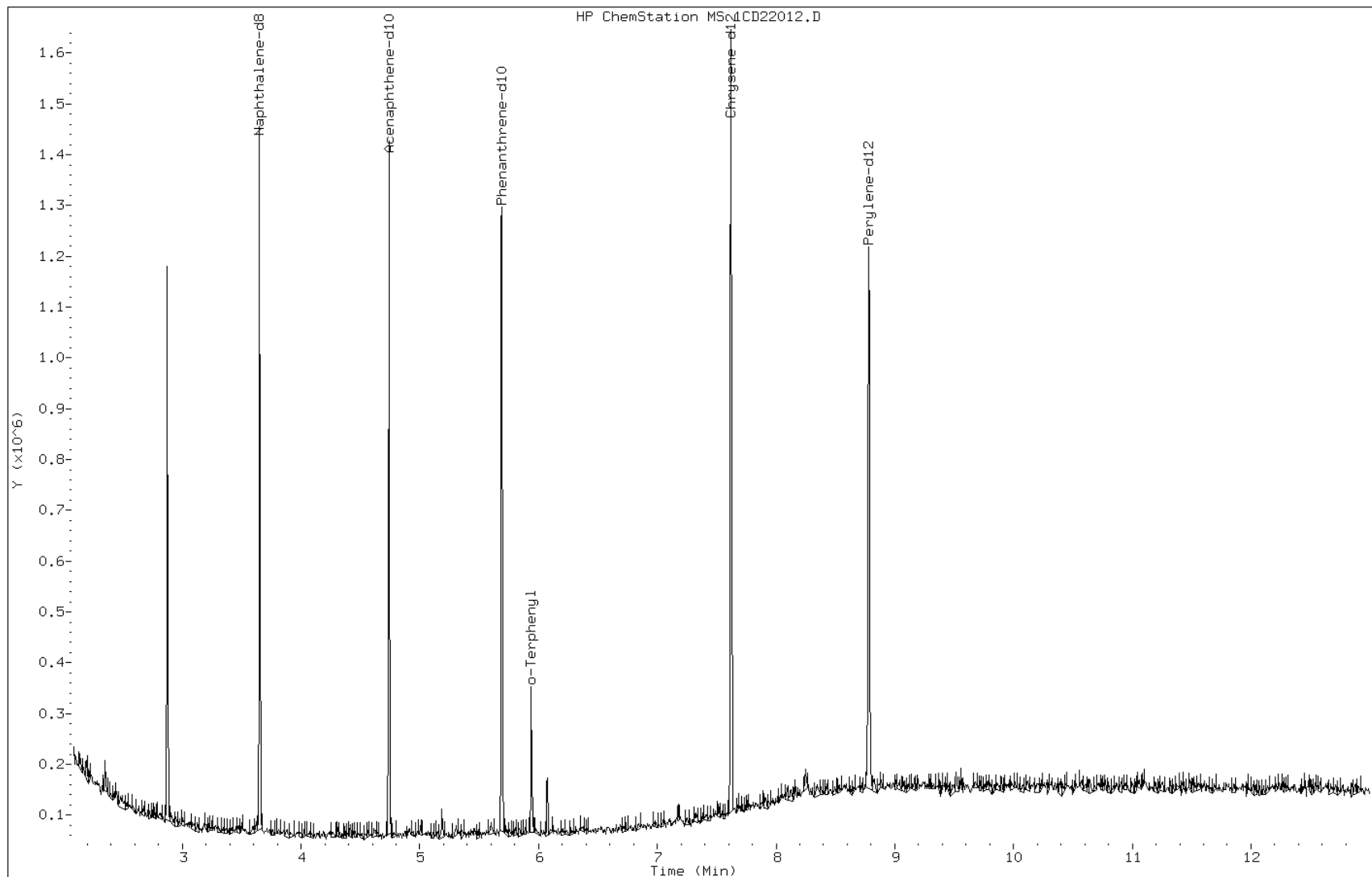
Date: 22-APR-2013 15:20

Client ID:

Instrument: BSMC5973.i

Sample Info: MB 660-136637/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136660/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23008.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>14.92(g)</u>	Date Analyzed: <u>04/23/2013 15:37</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>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23008.D
 Lab Smp Id: MB 660-136660/1-A
 Inj Date : 23-APR-2013 15:37
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136660/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 7 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	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 (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.050	6.051	(1.000)		1783244	40.0000	
* 6 Acenaphthene-d10	164		7.736	7.732	(1.000)		1022871	40.0000	
* 9 Phenanthrene-d10	188		8.993	8.995	(1.000)		1640756	40.0000	
\$ 13 o-Terphenyl	230		9.305	9.306	(1.035)		158671	6.41824	430
* 17 Chrysene-d12	240		11.302	11.304	(1.000)		1577513	40.0000	
* 22 Perylene-d12	264		13.124	13.120	(1.000)		1653399	40.0000	

Data File: 1DD23008.D

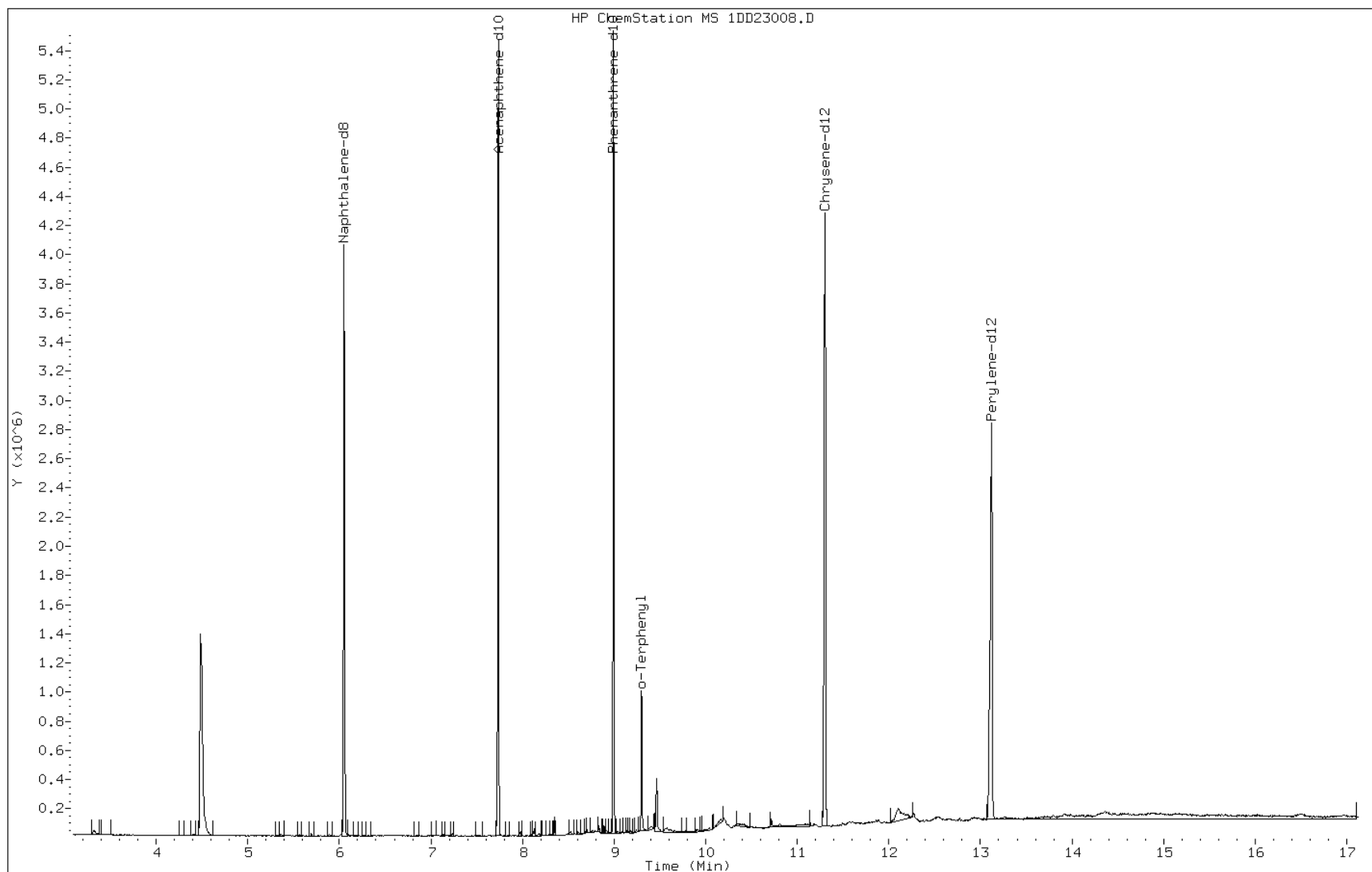
Date: 23-APR-2013 15:37

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136660/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>MB 660-136752/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24014.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.31(g)</u>	Date Analyzed: <u>04/24/2013 16:55</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>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24014.D
 Lab Smp Id: MB 660-136752/1-A
 Inj Date : 24-APR-2013 16:55
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : MB 660-136752/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 14 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	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/l)	(ug/Kg)
=====		=====	=====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	6.045	6.049	(1.000)	2776941	40.0000	
*	6 Acenaphthene-d10	164	7.731	7.730	(1.000)	1716814	40.0000	
*	9 Phenanthrene-d10	188	8.989	8.993	(1.000)	2751589	40.0000	
\$	13 o-Terphenyl	230	9.294	9.298	(1.034)	255008	6.15082	400
*	17 Chrysene-d12	240	11.298	11.302	(1.000)	2681161	40.0000	
*	22 Perylene-d12	264	13.119	13.123	(1.000)	2646796	40.0000	
	10 Phenanthrene	178	9.006	9.010	(1.002)	2818	0.03718	2.4(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24014.D

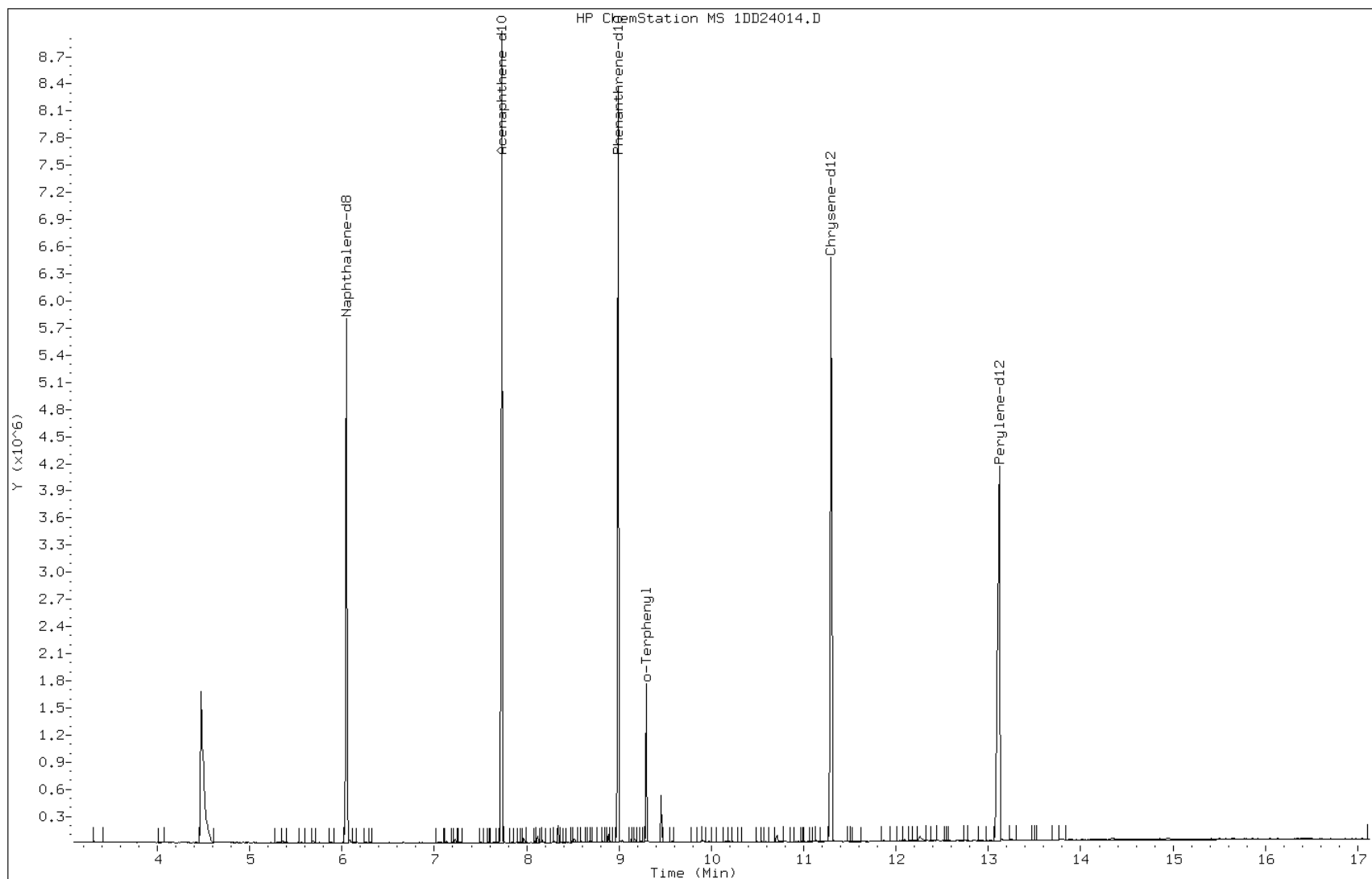
Date: 24-APR-2013 16:55

Client ID:

Instrument: BSMSD.i

Sample Info: MB 660-136752/1-A

Operator: SCC

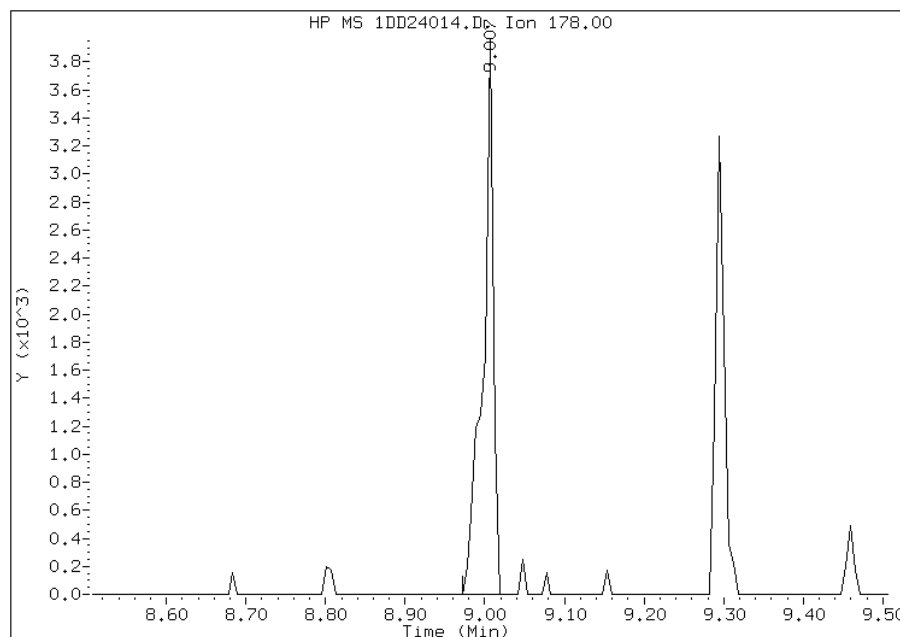


Manual Integration Report

Data File: 1DD24014.D
Inj. Date and Time: 24-APR-2013 16:55
Instrument ID: BSMSD.i
Client ID:
Compound: 10 Phenanthrene
CAS #: 85-01-8
Report Date: 04/25/2013

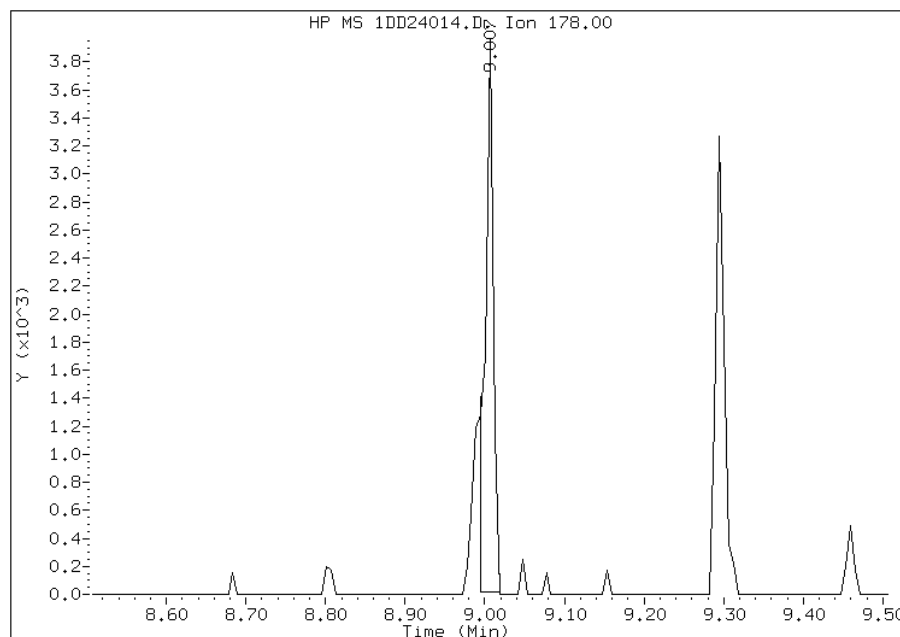
Processing Integration Results

RT: 9.01
Response: 3539
Amount: 0
Conc: 3



Manual Integration Results

RT: 9.01
Response: 2818
Amount: 0
Conc: 2



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:09
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136637/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22013.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>15.15(g)</u>	Date Analyzed: <u>04/22/2013 15:38</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: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	537		99	20
208-96-8	Acenaphthylene	492		40	5.0
120-12-7	Anthracene	528		8.3	4.2
56-55-3	Benzo[a]anthracene	579		7.9	3.9
50-32-8	Benzo[a]pyrene	446		10	5.1
205-99-2	Benzo[b]fluoranthene	556		12	6.0
191-24-2	Benzo[g,h,i]perylene	468		20	4.4
207-08-9	Benzo[k]fluoranthene	589		7.9	3.6
218-01-9	Chrysene	465		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	553		20	4.1
206-44-0	Fluoranthene	538		20	4.0
86-73-7	Fluorene	534		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	400		20	7.0
90-12-0	1-Methylnaphthalene	423		40	4.4
91-57-6	2-Methylnaphthalene	435		40	7.0
91-20-3	Naphthalene	472		40	4.4
85-01-8	Phenanthrene	534		7.9	3.9
129-00-0	Pyrene	479		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22013.D
Lab Smp Id: lcs 660-136637/2-a
Inj Date : 22-APR-2013 15:38
Operator : SCC
Smp Info : lcs 660-136637/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 13 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	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.651	3.651	(1.000)		194740	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		124944	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		229447	40.0000	
\$ 14 o-Terphenyl	230		5.933	5.933	(1.045)		25400	7.37467	486.7765
* 18 Chrysene-d12	240		7.615	7.615	(1.000)		303066	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		303188	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		37627	7.14782	471.8029
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		22222	6.58467	434.6317
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		21545	6.40739	422.9301
5 Acenaphthylene	152		4.651	4.651	(0.981)		39427	7.44701	491.5516
7 Acenaphthene	154		4.757	4.757	(1.004)		25974	8.14080	537.3465
9 Fluorene	166		5.074	5.080	(1.071)		32833	8.08642	533.7569
11 Phenanthrene	178		5.698	5.698	(1.003)		54408	8.09306	534.1951
12 Anthracene	178		5.727	5.733	(1.008)		53288	7.99988	528.0452

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.839	5.839	(1.028)	54248	8.74430	577.1817
15 Fluoranthene	202	6.527	6.527	(1.149)	60632	8.14584	537.6791
16 Pyrene	202	6.692	6.692	(0.879)	62591	7.25953	479.1767
17 Benzo(a)anthracene	228	7.604	7.603	(0.998)	75189	8.77340	579.1021
19 Chrysene	228	7.633	7.633	(1.002)	59731	7.04543	465.0448
20 Benzo(b)fluoranthene	252	8.433	8.433	(0.962)	64478	8.41996	555.7730
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	77359	8.92758	589.2795
22 Benzo(a)pyrene	252	8.715	8.709	(0.995)	53452	6.75265	445.7195
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	42679	6.06644	400.4251(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	61593	8.38045	553.1649
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	52584	7.08734	467.8113

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD22013.D

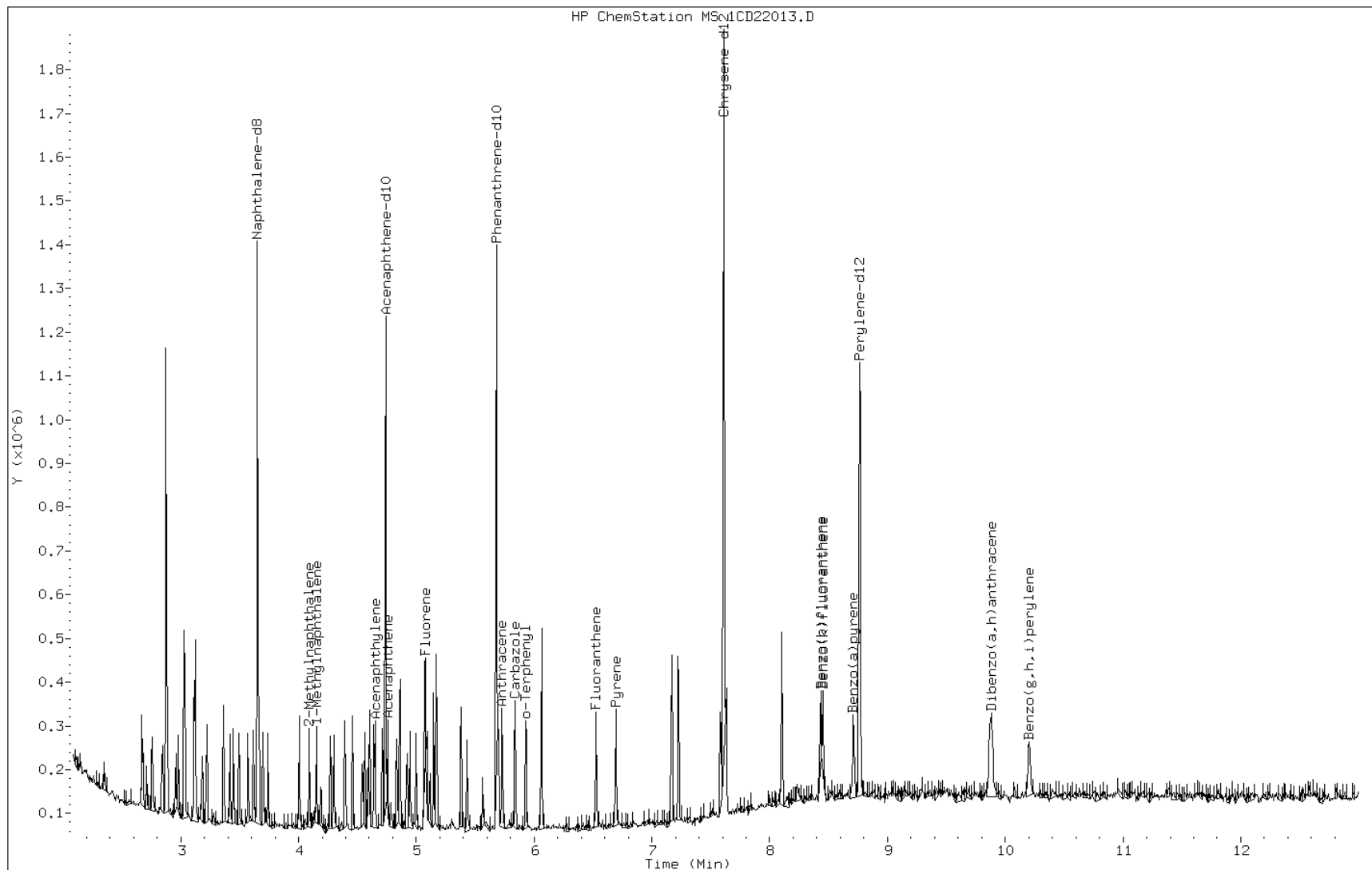
Date: 22-APR-2013 15:38

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136637/2-a

Operator: SCC

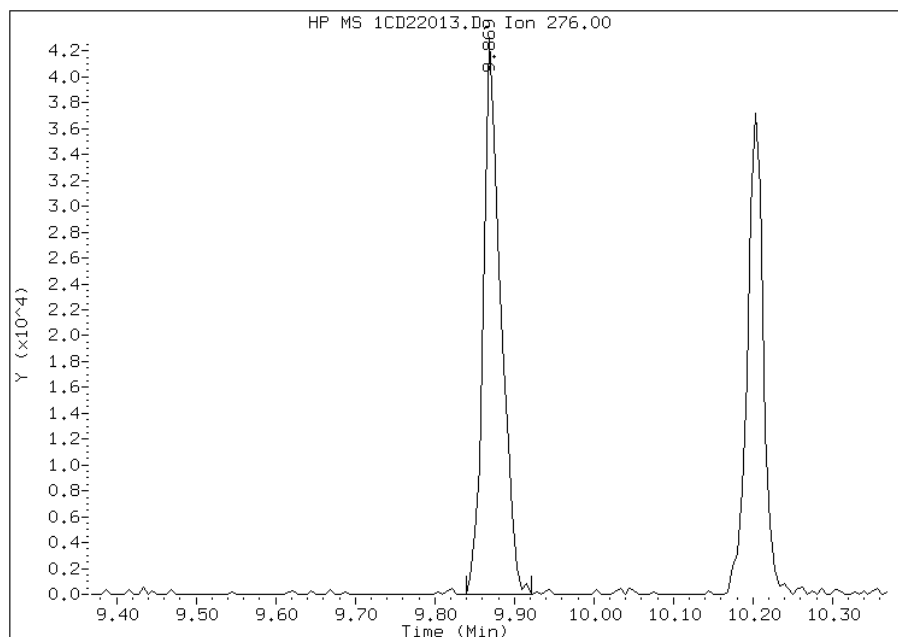


Manual Integration Report

Data File: 1CD22013.D
Inj. Date and Time: 22-APR-2013 15:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

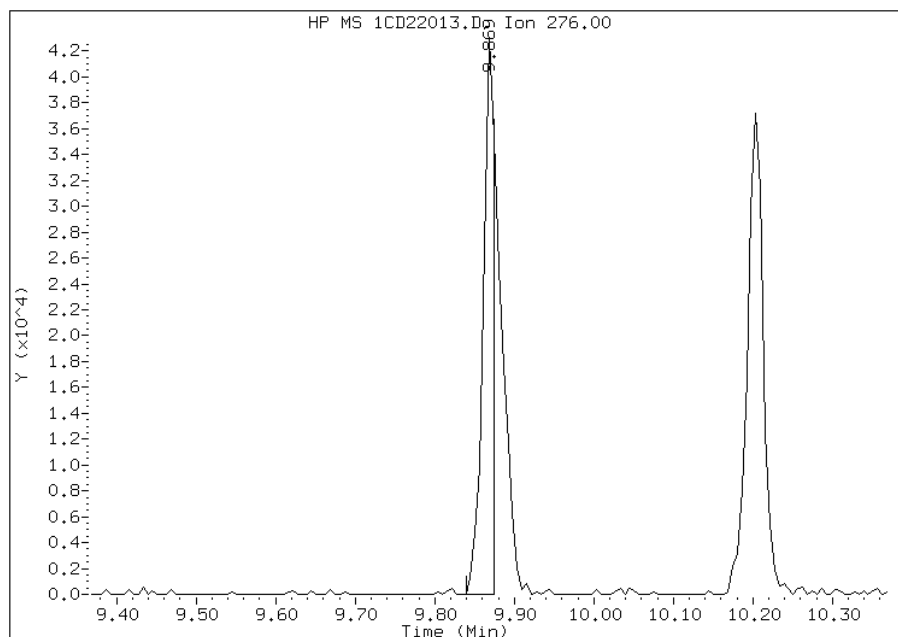
Processing Integration Results

RT: 9.87
Response: 65345
Amount: 9
Conc: 591



Manual Integration Results

RT: 9.87
Response: 42679
Amount: 6
Conc: 400



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136660/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23009.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.32(g)</u>	Date Analyzed: <u>04/23/2013 15:59</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>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	327		98	20
208-96-8	Acenaphthylene	342		39	4.9
120-12-7	Anthracene	420		8.2	4.1
56-55-3	Benzo[a]anthracene	459		7.8	3.8
50-32-8	Benzo[a]pyrene	419		10	5.1
205-99-2	Benzo[b]fluoranthene	469		12	6.0
191-24-2	Benzo[g,h,i]perylene	529		20	4.3
207-08-9	Benzo[k]fluoranthene	444		7.8	3.5
218-01-9	Chrysene	445		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	528		20	4.0
206-44-0	Fluoranthene	453		20	3.9
86-73-7	Fluorene	382		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	514		20	7.0
90-12-0	1-Methylnaphthalene	279		39	4.3
91-57-6	2-Methylnaphthalene	272		39	7.0
91-20-3	Naphthalene	245		39	4.3
85-01-8	Phenanthrene	420		7.8	3.8
129-00-0	Pyrene	445		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23009.D
 Lab Smp Id: LCS 660-136660/2-A
 Inj Date : 23-APR-2013 15:59
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : LCS 660-136660/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.052	6.051	(1.000)	1811705	40.0000		
*	6 Acenaphthene-d10	164	7.732	7.732	(1.000)	1032077	40.0000		
*	9 Phenanthrene-d10	188	8.995	8.995	(1.000)	1634283	40.0000		
\$	13 o-Terphenyl	230	9.301	9.306	(1.034)	157918	6.41308	420	
*	17 Chrysene-d12	240	11.304	11.304	(1.000)	1548433	40.0000		
*	22 Perylene-d12	264	13.120	13.120	(1.000)	1605678	40.0000		
	2 Naphthalene	128	6.069	6.075	(1.003)	169218	3.75782	240	
	3 2-Methylnaphthalene	142	6.780	6.780	(1.120)	121220	4.17010	270	
	4 1-Methylnaphthalene	142	6.874	6.874	(1.136)	117218	4.27007	280	
	5 Acenaphthylene	152	7.603	7.608	(0.983)	229060	5.24381	340	
	7 Acenaphthene	154	7.761	7.761	(1.004)	135091	5.01016	330	
	8 Fluorene	166	8.202	8.208	(1.061)	187058	5.85835	380	
	10 Phenanthrene	178	9.013	9.013	(1.002)	289597	6.43323	420	
	11 Anthracene	178	9.054	9.054	(1.007)	287713	6.43949	420	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.195	9.195	(1.022)	257466	6.53299	430
14 Fluoranthene	202	9.994	10.000	(1.111)	321768	6.94612	450
15 Pyrene	202	10.182	10.188	(0.901)	316950	6.81623	440
16 Benzo(a)anthracene	228	11.287	11.287	(0.998)	315103	7.03853	460
18 Chrysene	228	11.328	11.328	(1.002)	286226	6.81868	440
19 Benzo(b)fluoranthene	252	12.579	12.585	(0.959)	288487	7.19236	470
20 Benzo(k)fluoranthene	252	12.615	12.620	(0.961)	287697	6.80839	440
21 Benzo(a)pyrene	252	13.026	13.032	(0.993)	258926	6.42474	420
23 Indeno(1,2,3-cd)pyrene	276	14.700	14.706	(1.120)	338243	7.87101	510(M)
24 Dibenzo(a,h)anthracene	278	14.724	14.735	(1.122)	327618	8.09588	530
25 Benzo(g,h,i)perylene	276	15.129	15.141	(1.153)	335280	8.10300	530

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23009.D

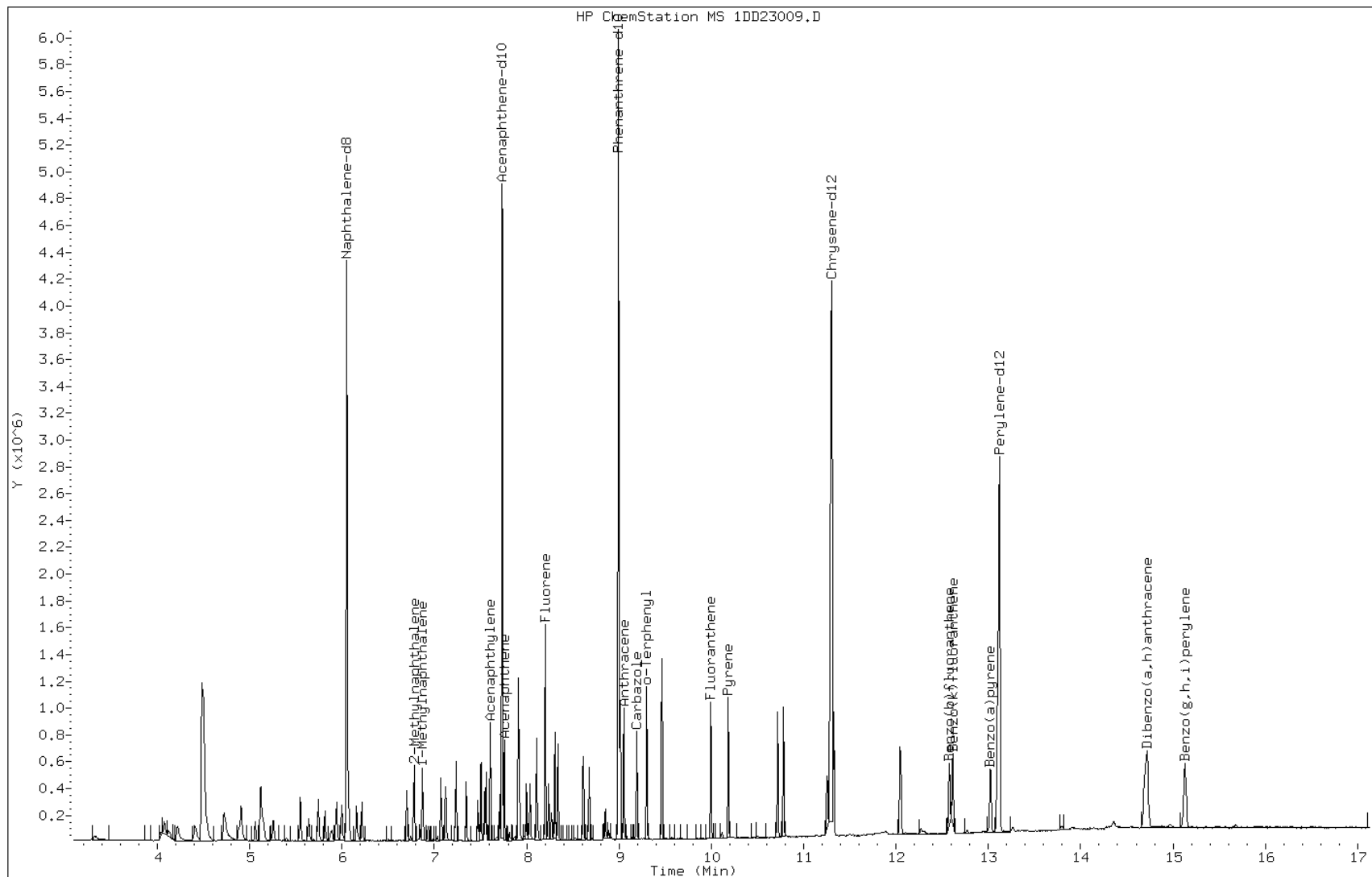
Date: 23-APR-2013 15:59

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136660/2-A

Operator: SCC

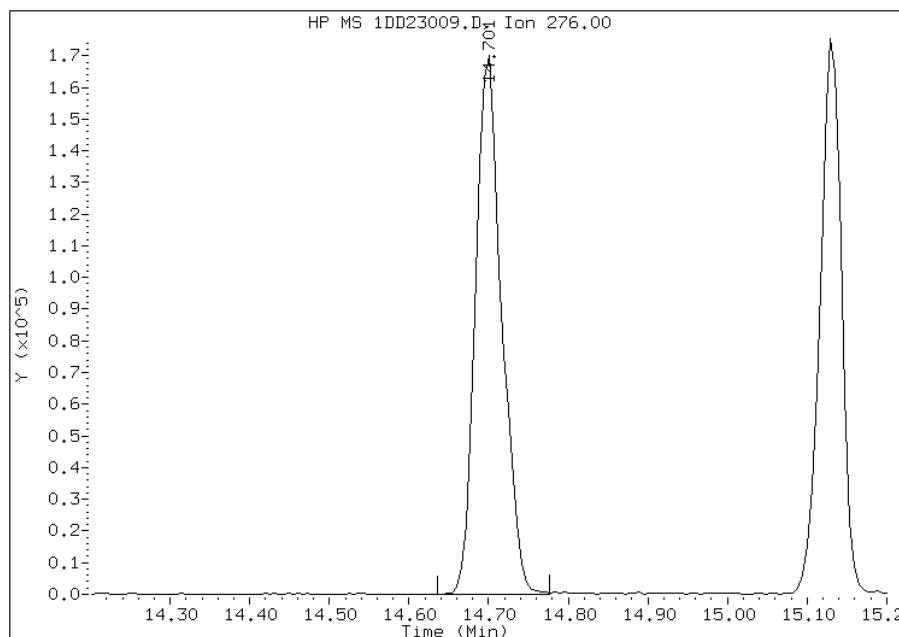


Manual Integration Report

Data File: 1DD23009.D
Inj. Date and Time: 23-APR-2013 15:59
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

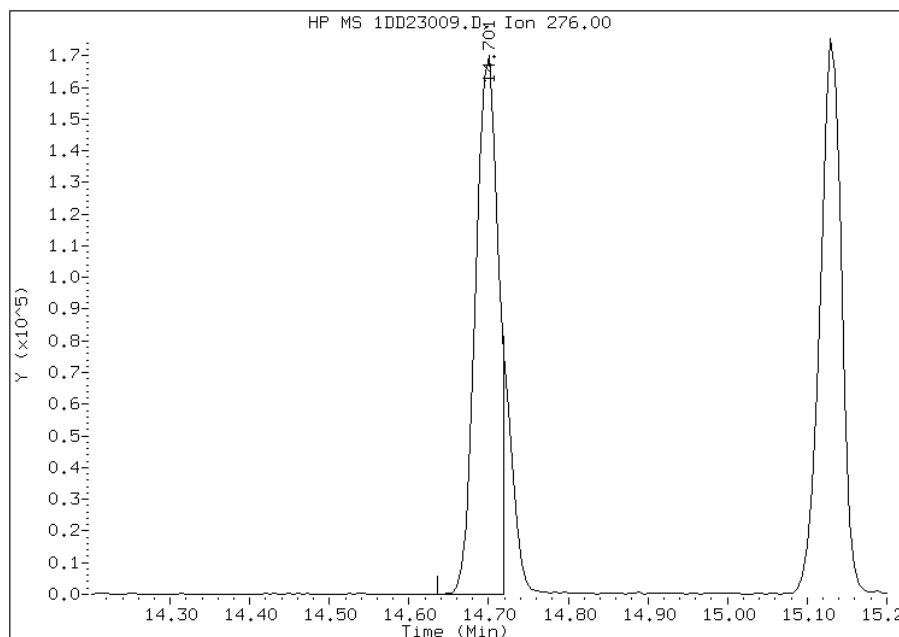
Processing Integration Results

RT: 14.70
Response: 387969
Amount: 9
Conc: 589



Manual Integration Results

RT: 14.70
Response: 338243
Amount: 8
Conc: 514



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 12:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>LCS 660-136752/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24015.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.23(g)</u>	Date Analyzed: <u>04/24/2013 17:18</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>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		98	20
208-96-8	Acenaphthylene	507		39	4.9
120-12-7	Anthracene	496		8.3	4.1
56-55-3	Benzo[a]anthracene	547		7.9	3.8
50-32-8	Benzo[a]pyrene	494		10	5.1
205-99-2	Benzo[b]fluoranthene	577		12	6.0
191-24-2	Benzo[g,h,i]perylene	548		20	4.3
207-08-9	Benzo[k]fluoranthene	542		7.9	3.5
218-01-9	Chrysene	513		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	574		20	4.0
206-44-0	Fluoranthene	534		20	3.9
86-73-7	Fluorene	528		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	535		20	7.0
90-12-0	1-Methylnaphthalene	503		39	4.3
91-57-6	2-Methylnaphthalene	498		39	7.0
91-20-3	Naphthalene	478		39	4.3
85-01-8	Phenanthrene	485		7.9	3.8
129-00-0	Pyrene	518		20	3.6

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\1D042413.b\1DD24015.D
Lab Smp Id: LCS 660-136752/2-A
Inj Date : 24-APR-2013 17:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136752/2-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	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 (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.048	6.049	(1.000)		2121388	40.0000	
* 6 Acenaphthene-d10	164		7.729	7.730	(1.000)		1279631	40.0000	
* 9 Phenanthrene-d10	188		8.992	8.993	(1.000)		2148959	40.0000	
\$ 13 o-Terphenyl	230		9.298	9.298	(1.034)		243209	7.51128	490
* 17 Chrysene-d12	240		11.295	11.302	(1.000)		2097144	40.0000	
* 22 Perylene-d12	264		13.111	13.123	(1.000)		2063943	40.0000	
2 Naphthalene	128		6.066	6.073	(1.003)		383783	7.27852	480
3 2-Methylnaphthalene	142		6.777	6.778	(1.120)		257995	7.57968	500
4 1-Methylnaphthalene	142		6.865	6.872	(1.135)		246456	7.66738	500
5 Acenaphthylene	152		7.600	7.600	(0.983)		417875	7.71564	510
7 Acenaphthene	154		7.752	7.759	(1.003)		247219	7.39493	480
8 Fluorene	166		8.199	8.200	(1.061)		318423	8.04324	530
10 Phenanthrene	178		9.004	9.010	(1.001)		436880	7.38068	480
11 Anthracene	178		9.045	9.052	(1.006)		443462	7.54827	500

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.186	9.193	(1.022)	329035	6.34941	420
14 Fluoranthene	202	9.991	9.997	(1.111)	495241	8.13046	530
15 Pyrene	202	10.179	10.185	(0.901)	496510	7.88398	520
16 Benzo(a)anthracene	228	11.278	11.284	(0.998)	505525	8.33751	550
18 Chrysene	228	11.319	11.331	(1.002)	444027	7.81024	510
19 Benzo(b)fluoranthene	252	12.570	12.583	(0.959)	452954	8.78537	580
20 Benzo(k)fluoranthene	252	12.605	12.618	(0.961)	448347	8.25437	540
21 Benzo(a)pyrene	252	13.011	13.029	(0.992)	390036	7.52913	490
23 Indeno(1,2,3-cd)pyrene	276	14.685	14.710	(1.120)	449770	8.14241	530(M)
24 Dibenzo(a,h)anthracene	278	14.709	14.733	(1.122)	454600	8.73949	570
25 Benzo(g,h,i)perylene	276	15.120	15.150	(1.153)	443843	8.34503	550

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24015.D

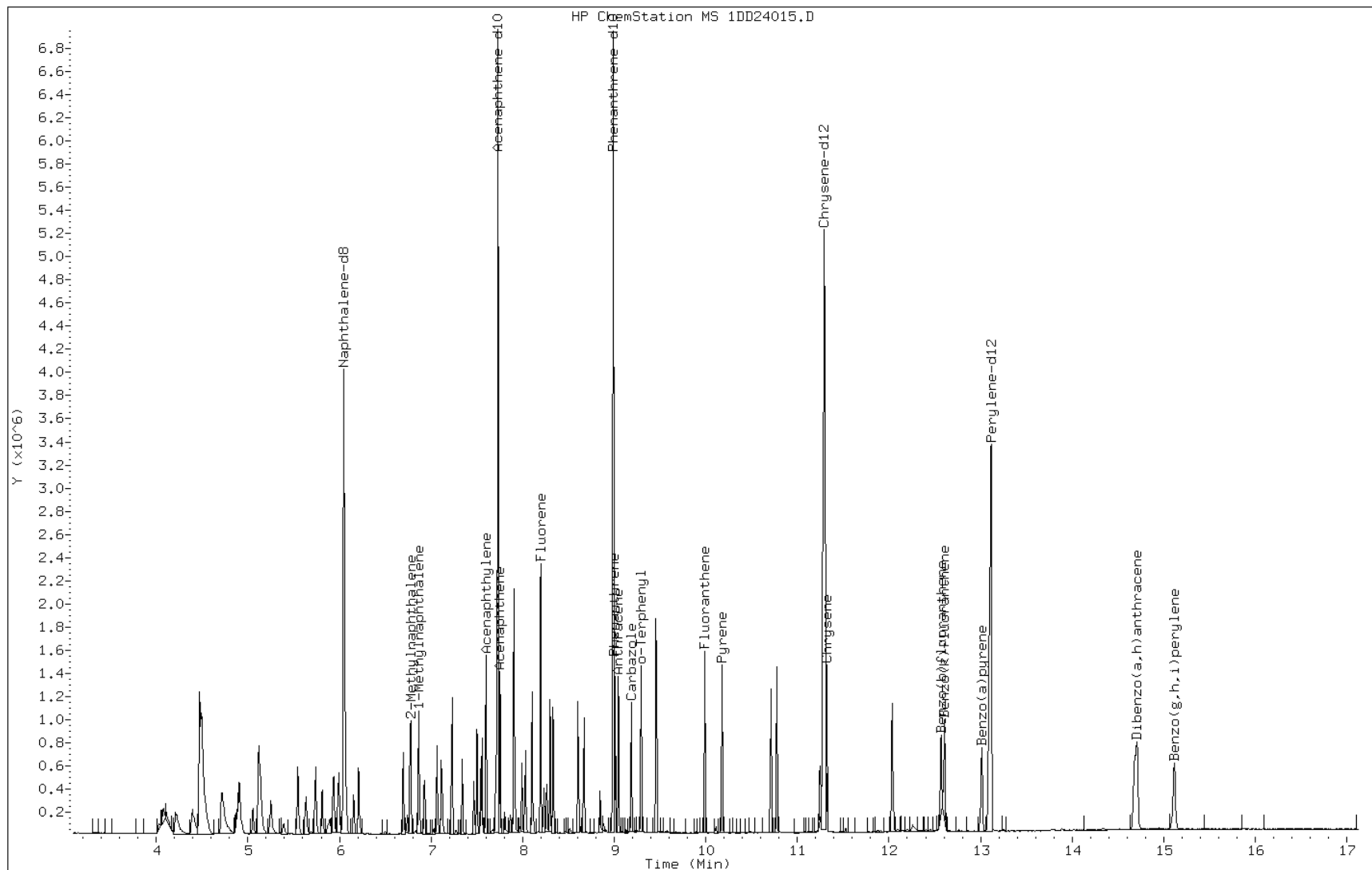
Date: 24-APR-2013 17:18

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136752/2-A

Operator: SCC

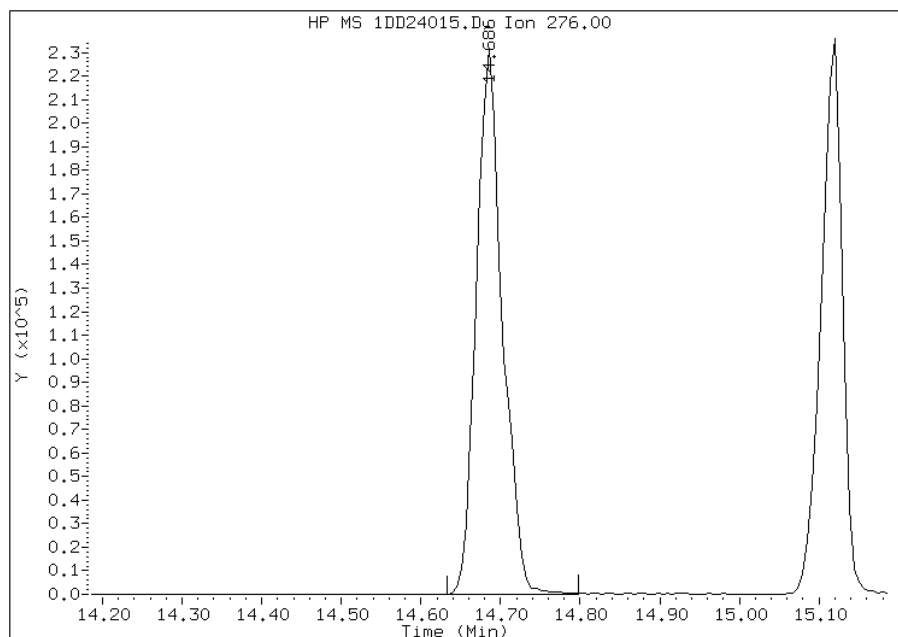


Manual Integration Report

Data File: 1DD24015.D
Inj. Date and Time: 24-APR-2013 17:18
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

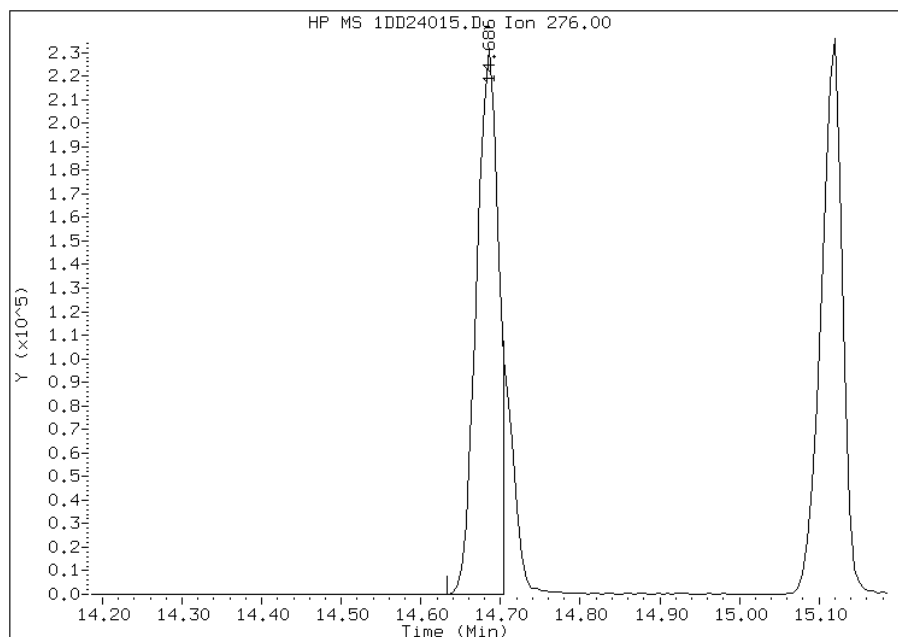
Processing Integration Results

RT: 14.69
Response: 526924
Amount: 10
Conc: 626



Manual Integration Results

RT: 14.69
Response: 449770
Amount: 8
Conc: 535



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-8-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/22/2013 16:51</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>19.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	654		500	99
208-96-8	Acenaphthylene	680		200	25
120-12-7	Anthracene	501		42	21
56-55-3	Benzo[a]anthracene	927		40	19
50-32-8	Benzo[a]pyrene	690		52	26
205-99-2	Benzo[b]fluoranthene	964		60	30
191-24-2	Benzo[g,h,i]perylene	816		99	22
207-08-9	Benzo[k]fluoranthene	744		40	18
218-01-9	Chrysene	777		45	22
53-70-3	Dibenz(a,h)anthracene	596		99	20
206-44-0	Fluoranthene	980		99	20
86-73-7	Fluorene	528		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	810		99	35
90-12-0	1-Methylnaphthalene	556		200	22
91-57-6	2-Methylnaphthalene	682		200	35
91-20-3	Naphthalene	483		200	22
85-01-8	Phenanthrene	833		40	19
129-00-0	Pyrene	890		99	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1CD22017.D
Lab Smp Id: 680-89328-a-8-b ms
Inj Date : 22-APR-2013 16:51
Operator : SCC
Smp Info : 680-89328-a-8-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 17 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: TAM1000
Inst ID: BSMC5973.i
Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.651	3.651	(1.000)		207649	40.0000	
* 6 Acenaphthene-d10	164		4.739	4.739	(1.000)		130313	40.0000	
* 10 Phenanthrene-d10	188		5.680	5.680	(1.000)		251724	40.0000	
\$ 14 o-Terphenyl	230		5.927	5.933	(1.043)		5498	2.00861	537.0624
* 18 Chrysene-d12	240		7.609	7.615	(1.000)		309063	40.0000	
* 23 Perylene-d12	264		8.762	8.762	(1.000)		299307	40.0000	
2 Naphthalene	128		3.663	3.663	(1.003)		8195	1.45998	390.3699(Q)
3 2-Methylnaphthalene	142		4.092	4.092	(1.121)		6721	2.06307	551.6241
4 1-Methylnaphthalene	142		4.151	4.151	(1.137)		6029	1.68153	449.6077
5 Acenaphthylene	152		4.651	4.651	(0.981)		11366	2.05837	550.3661
7 Acenaphthene	154		4.757	4.757	(1.004)		6584	1.97854	529.0224
9 Fluorene	166		5.074	5.080	(1.071)		6762	1.59679	426.9498
11 Phenanthrene	178		5.692	5.698	(1.002)		18593	2.52162	674.2307
12 Anthracene	178		5.727	5.733	(1.008)		11078	1.51591	405.3235

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.839	5.839	(1.028)	11749	1.72624	461.5604
15 Fluoranthene	202	6.527	6.527	(1.149)	24218	2.96572	792.9729
16 Pyrene	202	6.692	6.692	(0.879)	23685	2.69377	720.2586
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	24515	2.80502	750.0047
19 Chrysene	228	7.627	7.633	(1.002)	20314	2.34960	628.2343
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	22050	2.91677	779.8851
21 Benzo(k)fluoranthene	252	8.451	8.456	(0.964)	19251	2.25046	601.7276
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	16325	2.08910	558.5821
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	14062	2.45071	655.2710(M)
25 Dibenzo(a,h)anthracene	278	9.880	9.886	(1.128)	10405	1.80461	482.5153
26 Benzo(g,h,i)perylene	276	10.198	10.209	(1.164)	18085	2.46913	660.1943(M)

QC Flag Legend

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

Data File: 1CD22017.D

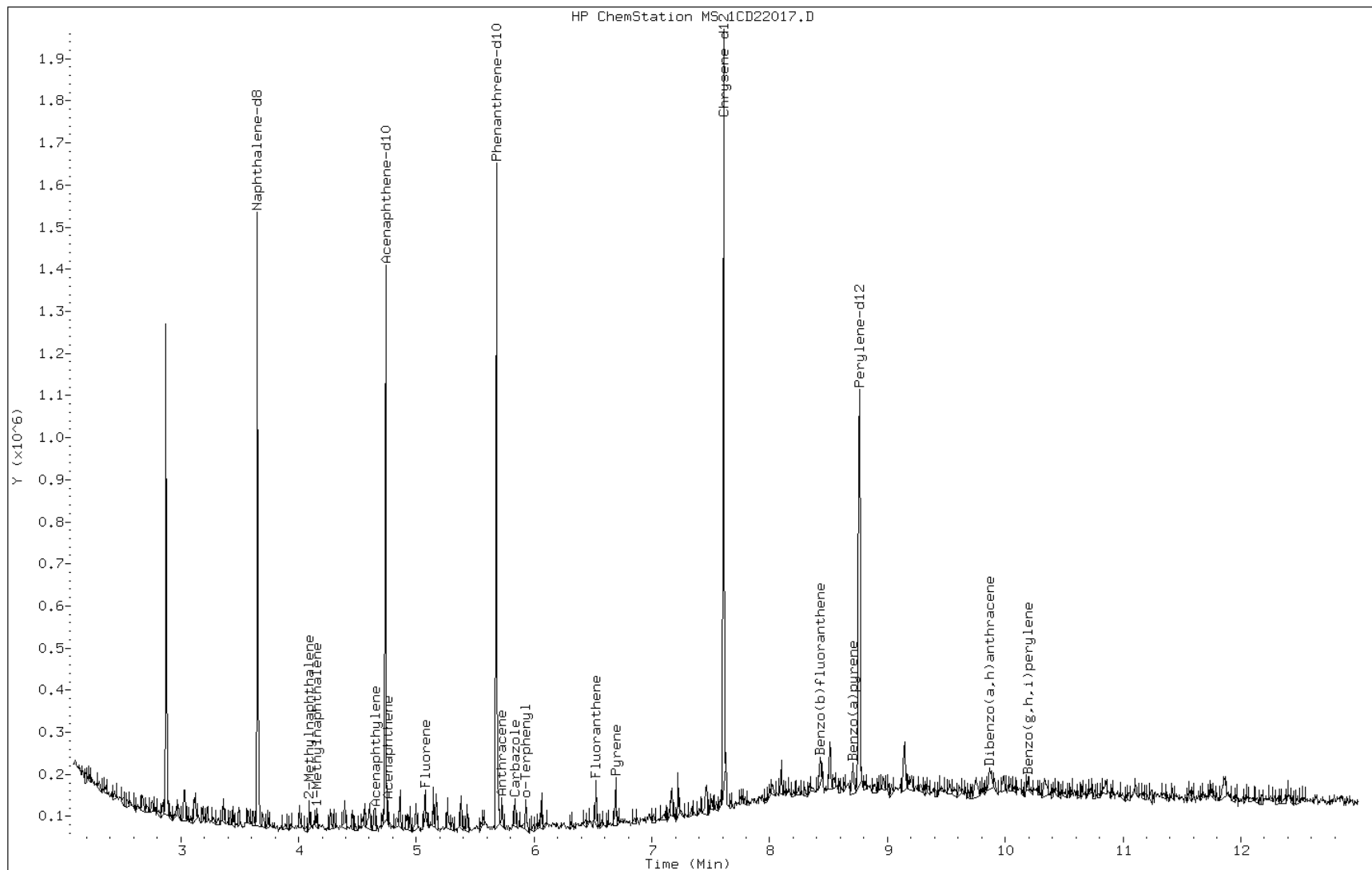
Date: 22-APR-2013 16:51

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-b ms

Operator: SCC

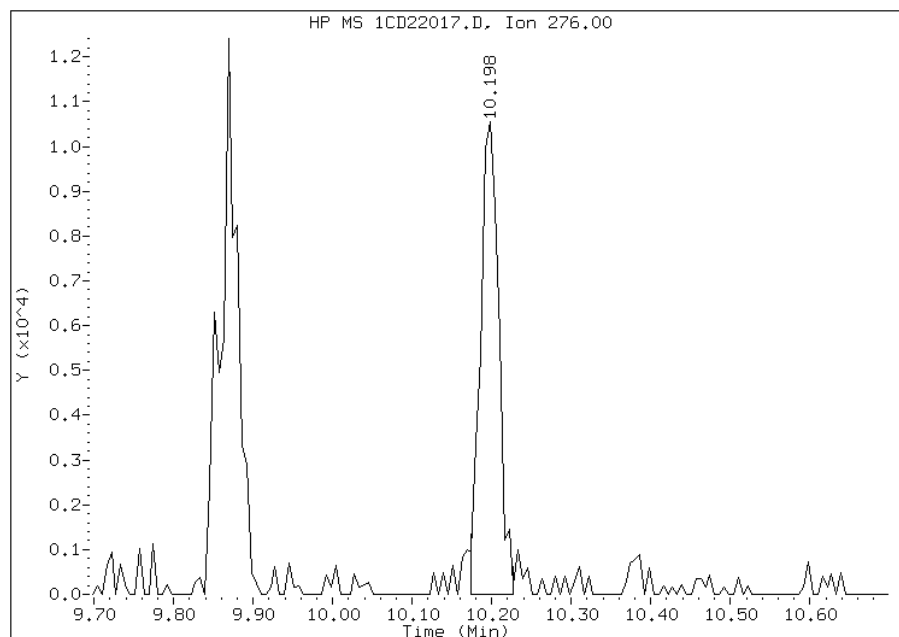


Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/23/2013

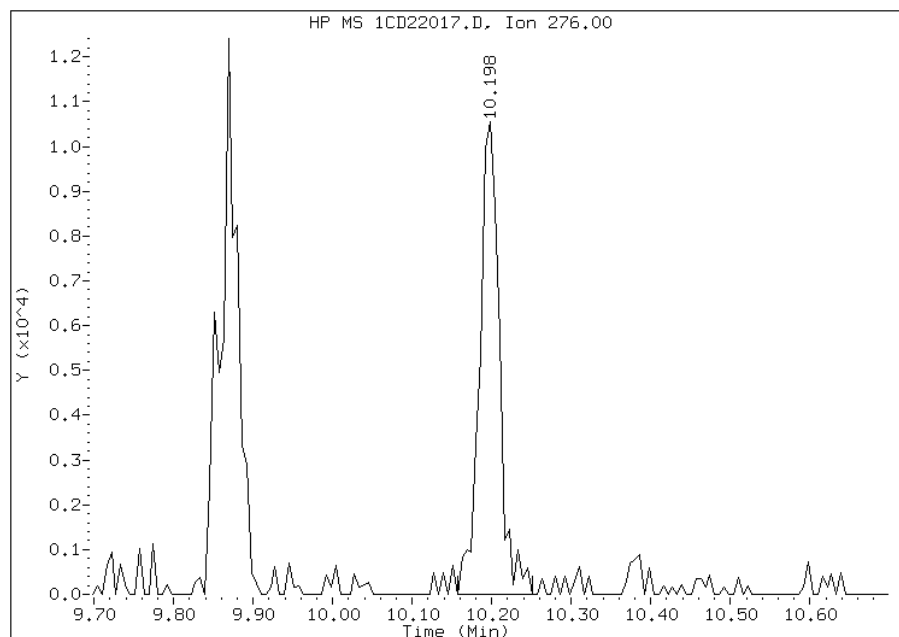
Processing Integration Results

RT: 10.20
Response: 16753
Amount: 2
Conc: 612



Manual Integration Results

RT: 10.20
Response: 18085
Amount: 2
Conc: 660



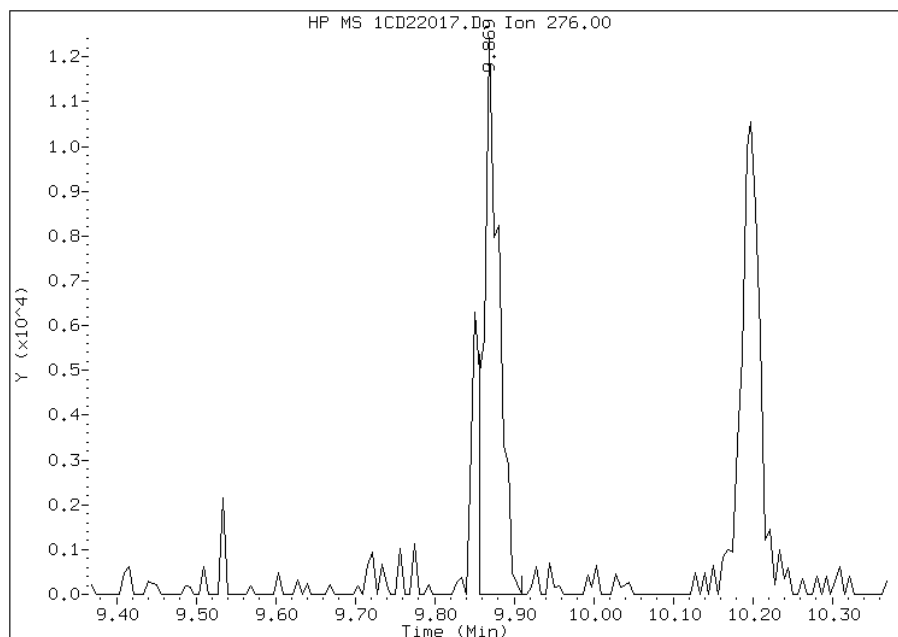
Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD22017.D
Inj. Date and Time: 22-APR-2013 16:51
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

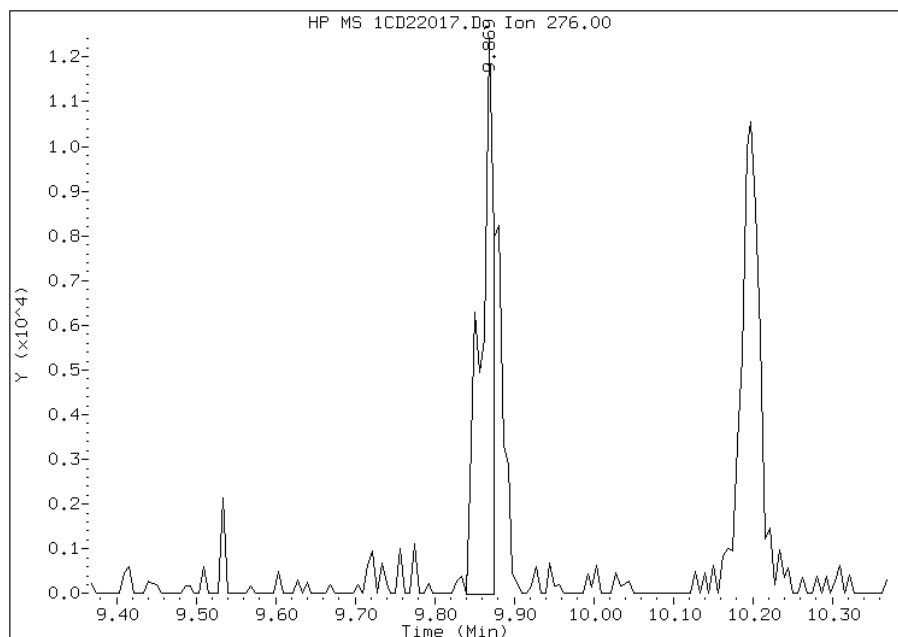
Processing Integration Results

RT: 9.87
Response: 16294
Amount: 3
Conc: 732



Manual Integration Results

RT: 9.87
Response: 14062
Amount: 2
Conc: 655



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:20
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-25-B MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23011.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/23/2013 16:44</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>22.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	J	520	100
208-96-8	Acenaphthylene	460		210	26
120-12-7	Anthracene	459		44	22
56-55-3	Benzo[a]anthracene	685		41	20
50-32-8	Benzo[a]pyrene	586		54	27
205-99-2	Benzo[b]fluoranthene	715		63	32
191-24-2	Benzo[g,h,i]perylene	703		100	23
207-08-9	Benzo[k]fluoranthene	540		41	19
218-01-9	Chrysene	710		47	23
53-70-3	Dibenz(a,h)anthracene	573		100	21
206-44-0	Fluoranthene	734		100	21
86-73-7	Fluorene	454		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	638		100	37
90-12-0	1-Methylnaphthalene	543		210	23
91-57-6	2-Methylnaphthalene	568		210	37
91-20-3	Naphthalene	454		210	23
85-01-8	Phenanthrene	700		41	20
129-00-0	Pyrene	695		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23011.D
 Lab Smp Id: 680-89328-A-25-B MS
 Inj Date : 23-APR-2013 16:44
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89328-A-25-B MS
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
 Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 10 QC Sample: MS
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.055	6.051	(1.000)		1708276	40.0000	
* 6 Acenaphthene-d10	164		7.735	7.732	(1.000)		976004	40.0000	
* 9 Phenanthrene-d10	188		8.993	8.995	(1.000)		1600101	40.0000	
\$ 13 o-Terphenyl	230		9.304	9.306	(1.035)		29797	1.23591	330
* 17 Chrysene-d12	240		11.302	11.304	(1.000)		1513680	40.0000	
* 22 Perylene-d12	264		13.123	13.120	(1.000)		1772427	40.0000	
2 Naphthalene	128		6.073	6.075	(1.003)		55801	1.31420	350
3 2-Methylnaphthalene	142		6.778	6.780	(1.119)		45033	1.64298	440
4 1-Methylnaphthalene	142		6.872	6.874	(1.135)		40660	1.57086	420
5 Acenaphthylene	152		7.606	7.608	(0.983)		55044	1.33250	360
7 Acenaphthene	154		7.759	7.761	(1.003)		30240	1.18595	320
8 Fluorene	166		8.205	8.208	(1.061)		39640	1.31278	350
10 Phenanthrene	178		9.010	9.013	(1.002)		89309	2.02633	540
11 Anthracene	178		9.051	9.054	(1.007)		58153	1.32936	350

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.192	9.195	(1.022)	52249	1.35410	360
14 Fluoranthene	202	9.997	10.000	(1.112)	96403	2.12554	570
15 Pyrene	202	10.180	10.188	(0.901)	91462	2.01211	540
16 Benzo(a)anthracene	228	11.284	11.287	(0.998)	86822	1.98389	530
18 Chrysene	228	11.325	11.328	(1.002)	84316	2.05475	550
19 Benzo(b)fluoranthene	252	12.577	12.585	(0.958)	91647	2.06992	550
20 Benzo(k)fluoranthene	252	12.612	12.620	(0.961)	72892	1.56271	420
21 Benzo(a)pyrene	252	13.023	13.032	(0.992)	75426	1.69547	450
23 Indeno(1,2,3-cd)pyrene	276	14.692	14.706	(1.120)	87580	1.84628	490(M)
24 Dibenzo(a,h)anthracene	278	14.721	14.735	(1.122)	74029	1.65725	440
25 Benzo(g,h,i)perylene	276	15.133	15.141	(1.153)	92895	2.03386	540

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23011.D

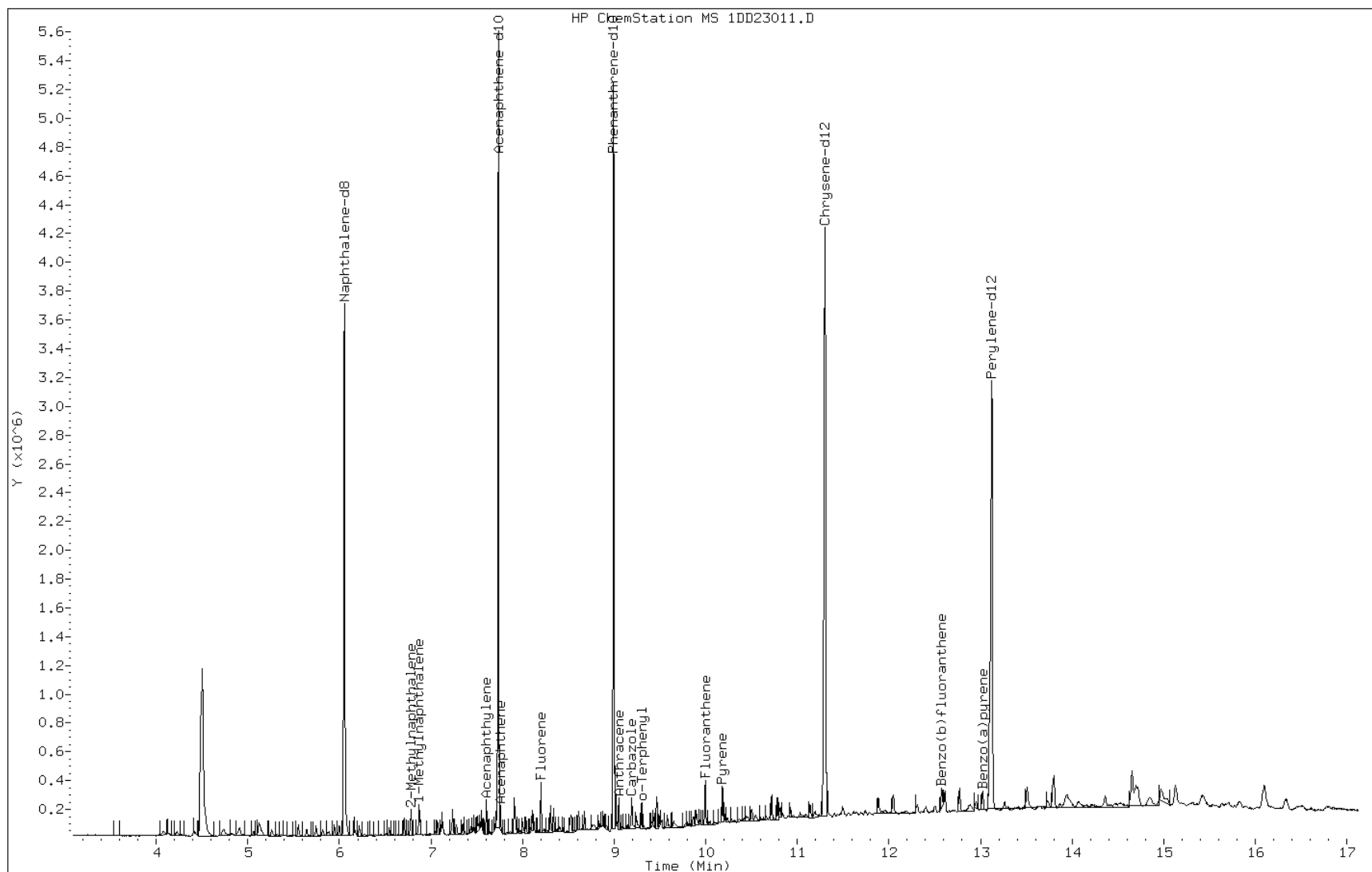
Date: 23-APR-2013 16:44

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-B MS

Operator: SCC

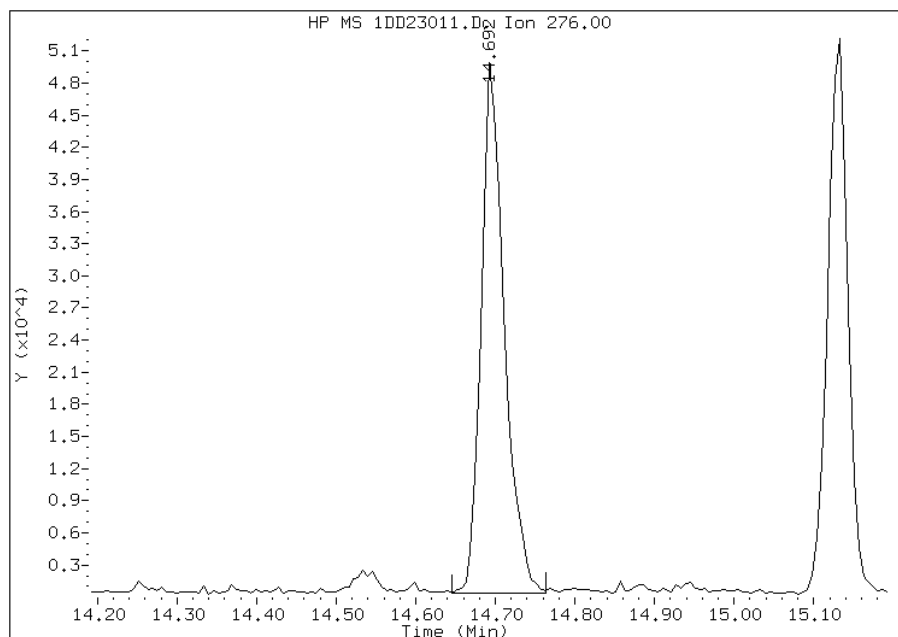


Manual Integration Report

Data File: 1DD23011.D
Inj. Date and Time: 23-APR-2013 16:44
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

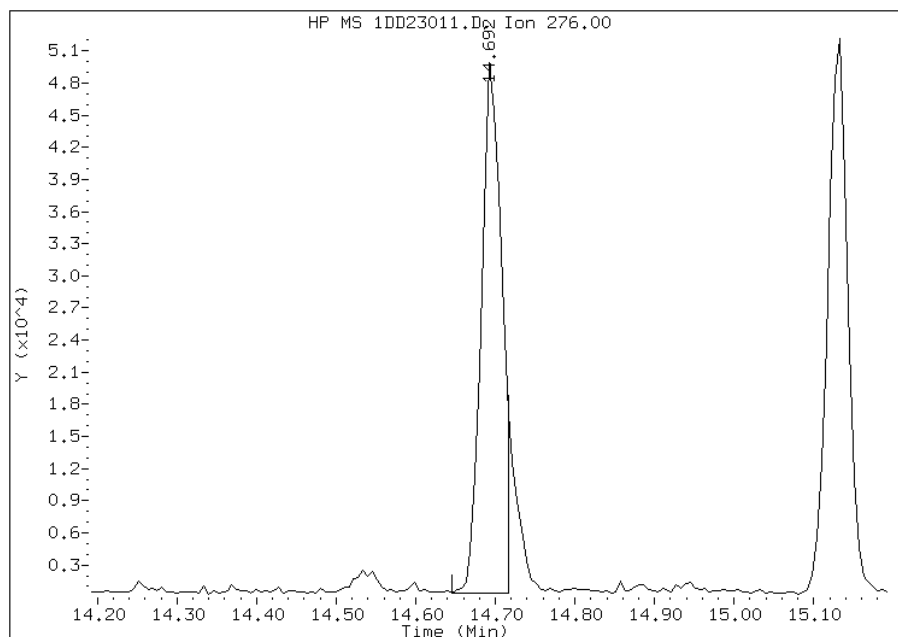
Processing Integration Results

RT: 14.69
Response: 99082
Amount: 2
Conc: 557



Manual Integration Results

RT: 14.69
Response: 87580
Amount: 2
Conc: 492



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 12:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1066B-CS-SP MS</u>	Lab Sample ID: <u>680-89459-12 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24017.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 11:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.08(g)</u>	Date Analyzed: <u>04/24/2013 18:03</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>22.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	437	J	510	100
208-96-8	Acenaphthylene	566		210	26
120-12-7	Anthracene	558		43	22
56-55-3	Benzo[a]anthracene	952		41	20
50-32-8	Benzo[a]pyrene	803		53	27
205-99-2	Benzo[b]fluoranthene	1130		63	31
191-24-2	Benzo[g,h,i]perylene	679		100	23
207-08-9	Benzo[k]fluoranthene	702		41	19
218-01-9	Chrysene	963		46	23
53-70-3	Dibenz(a,h)anthracene	544		100	21
206-44-0	Fluoranthene	886		100	21
86-73-7	Fluorene	477		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	614		100	37
90-12-0	1-Methylnaphthalene	988		210	23
91-57-6	2-Methylnaphthalene	1010		210	37
91-20-3	Naphthalene	791		210	23
85-01-8	Phenanthrene	864		41	20
129-00-0	Pyrene	842		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24017.D
 Lab Smp Id: 680-89459-A-12-B MS
 Inj Date : 24-APR-2013 18:03
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-89459-A-12-B MS
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
 Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
 Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
 Als bottle: 17 QC Sample: MS
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	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 (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 1 Naphthalene-d8	136		6.048	6.049	(1.000)		2400135	40.0000	
* 6 Acenaphthene-d10	164		7.729	7.730	(1.000)		1499955	40.0000	
* 9 Phenanthrene-d10	188		8.992	8.993	(1.000)		2473191	40.0000	
\$ 13 o-Terphenyl	230		9.298	9.298	(1.034)		48117	1.29123	340
* 17 Chrysene-d12	240		11.301	11.302	(1.000)		2504454	40.0000	
* 22 Perylene-d12	264		13.128	13.123	(1.000)		2755551	40.0000	
2 Naphthalene	128		6.066	6.073	(1.003)		137708	2.30835	610
3 2-Methylnaphthalene	142		6.777	6.778	(1.120)		113847	2.95628	780
4 1-Methylnaphthalene	142		6.871	6.872	(1.136)		104753	2.88044	760
5 Acenaphthylene	152		7.600	7.600	(0.983)		104883	1.65210	440
7 Acenaphthene	154		7.752	7.759	(1.003)		49960	1.27491	340
8 Fluorene	166		8.199	8.200	(1.061)		64546	1.39092	370
10 Phenanthrene	178		9.010	9.010	(1.002)		171704	2.52049	670
11 Anthracene	178		9.045	9.052	(1.006)		109975	1.62651	430

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.186	9.193	(1.022)	83624	1.40215	370
14 Fluoranthene	202	9.991	9.997	(1.111)	181218	2.58506	680
15 Pyrene	202	10.179	10.185	(0.901)	184800	2.45717	650
16 Benzo(a)anthracene	228	11.283	11.284	(0.998)	200985	2.77570	740
18 Chrysene	228	11.325	11.331	(1.002)	190719	2.80908	740
19 Benzo(b)fluoranthene	252	12.576	12.583	(0.958)	227010	3.29792	870(R)
20 Benzo(k)fluoranthene	252	12.605	12.618	(0.960)	148544	2.04840	540
21 Benzo(a)pyrene	252	13.023	13.029	(0.992)	162070	2.34332	620
23 Indeno(1,2,3-cd)pyrene	276	14.697	14.710	(1.119)	131996	1.78983	470(M)
24 Dibenzo(a,h)anthracene	278	14.721	14.733	(1.121)	110260	1.58768	420
25 Benzo(g,h,i)perylene	276	15.132	15.150	(1.153)	140703	1.98149	520

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1DD24017.D

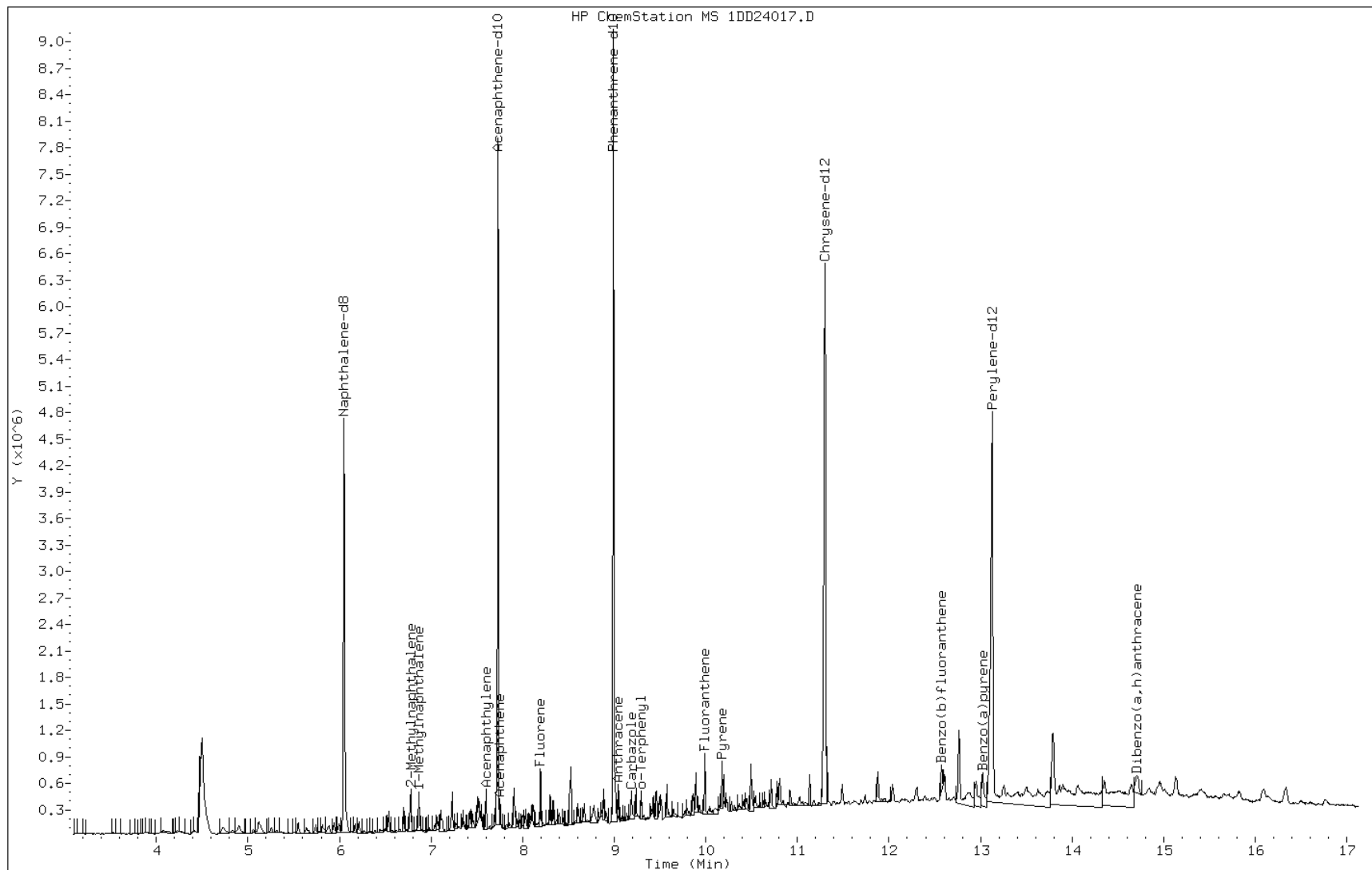
Date: 24-APR-2013 18:03

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89459-A-12-B MS

Operator: SCC

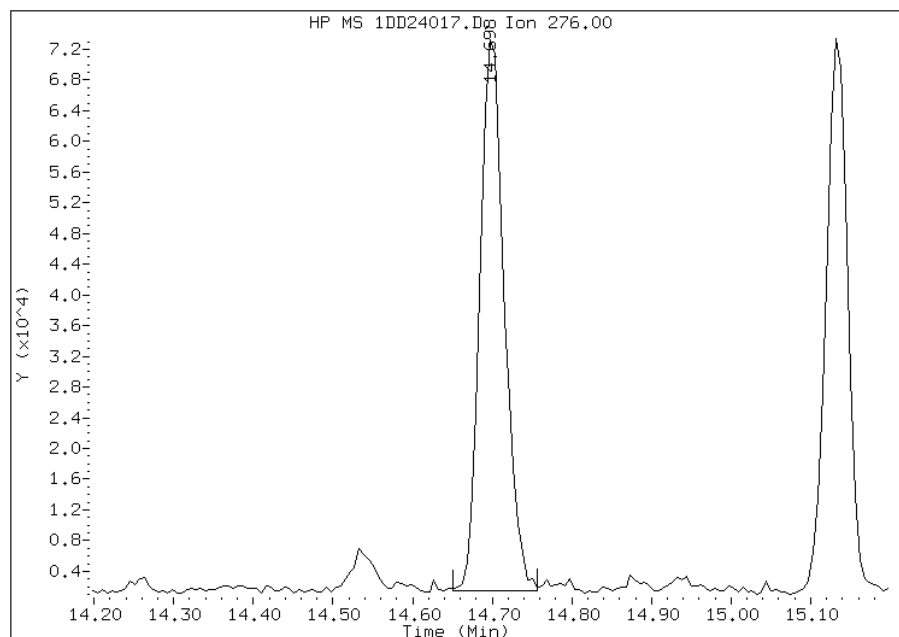


Manual Integration Report

Data File: 1DD24017.D
Inj. Date and Time: 24-APR-2013 18:03
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

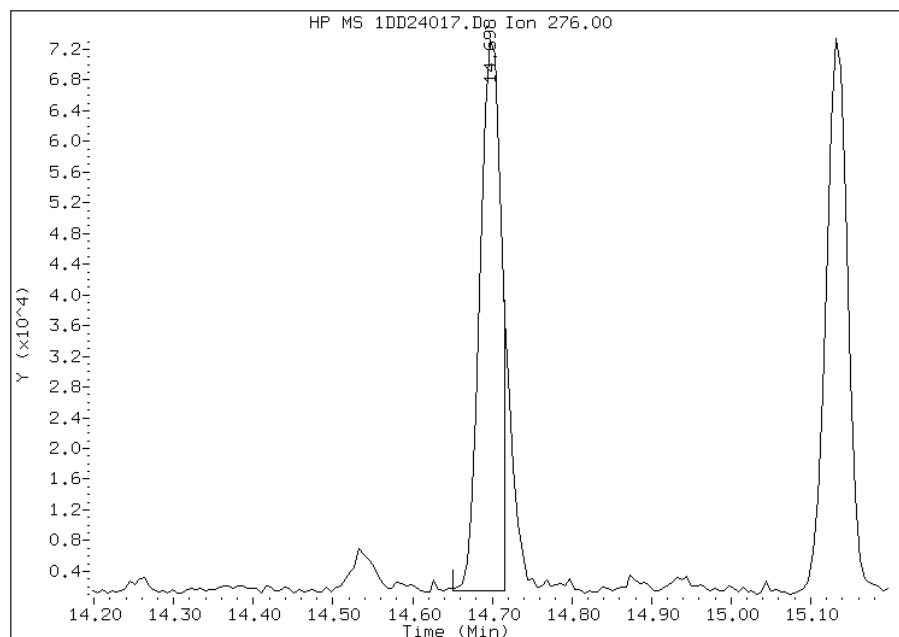
Processing Integration Results

RT: 14.70
Response: 152430
Amount: 2
Conc: 548



Manual Integration Results

RT: 14.70
Response: 131996
Amount: 2
Conc: 475



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-8-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1CD22018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 11:14</u>
Sample wt/vol: <u>14.96(g)</u>	Date Analyzed: <u>04/22/2013 17:10</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>19.1</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136698</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	551		500	99
208-96-8	Acenaphthylene	580		200	25
120-12-7	Anthracene	661		42	21
56-55-3	Benzo[a]anthracene	1190		40	19
50-32-8	Benzo[a]pyrene	1060		52	26
205-99-2	Benzo[b]fluoranthene	1300		60	30
191-24-2	Benzo[g,h,i]perylene	868		99	22
207-08-9	Benzo[k]fluoranthene	840		40	18
218-01-9	Chrysene	1240		45	22
53-70-3	Dibenz(a,h)anthracene	611		99	20
206-44-0	Fluoranthene	1860		99	20
86-73-7	Fluorene	601		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	1030		99	35
90-12-0	1-Methylnaphthalene	439		200	22
91-57-6	2-Methylnaphthalene	528		200	35
91-20-3	Naphthalene	476		200	22
85-01-8	Phenanthrene	1250		40	19
129-00-0	Pyrene	1680		99	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\1C042213.b\1CD22018.D
Lab Smp Id: 680-89328-a-8-c msd
Inj Date : 22-APR-2013 17:10
Operator : SCC
Smp Info : 680-89328-a-8-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042213.b\1a-bFASTPAHi-m.m
Meth Date : 22-Apr-2013 12:06 cantins Quant Type: ISTD
Cal Date : 11-APR-2013 14:06 Cal File: 1CD11009.D
Als bottle: 18 QC Sample: MSD
Dil Factor: 4.00000
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	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
		QUANT	SIG			ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
=====		====	====	=====	=====	=====	=====	=====
*	1 Naphthalene-d8	136	3.651	3.651	(1.000)	215035	40.0000	
*	6 Acenaphthene-d10	164	4.739	4.739	(1.000)	137990	40.0000	
*	10 Phenanthrene-d10	188	5.680	5.680	(1.000)	254165	40.0000	
\$	14 o-Terphenyl	230	5.927	5.933	(1.043)	5608	2.02208	540.6635
*	18 Chrysene-d12	240	7.609	7.615	(1.000)	301869	40.0000	
*	23 Perylene-d12	264	8.762	8.762	(1.000)	310059	40.0000	
	2 Naphthalene	128	3.663	3.663	(1.003)	8368	1.43960	384.9194
	3 2-Methylnaphthalene	142	4.092	4.092	(1.121)	5153	1.59824	427.3363
	4 1-Methylnaphthalene	142	4.151	4.151	(1.137)	4933	1.32859	355.2387
	5 Acenaphthylene	152	4.651	4.651	(0.981)	10268	1.75607	469.5372
	7 Acenaphthene	154	4.757	4.757	(1.004)	5874	1.66698	445.7161
	9 Fluorene	166	5.074	5.080	(1.071)	8150	1.81749	485.9587
	11 Phenanthrene	178	5.698	5.698	(1.003)	28232	3.78967	1013.2819(R)
	12 Anthracene	178	5.727	5.733	(1.008)	14751	1.99914	534.5284

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
13 Carbazole	167	5.839	5.839	(1.028)	13379	1.94685	520.5472
15 Fluoranthene	202	6.527	6.527	(1.149)	46309	5.61650	1501.7386(R)
16 Pyrene	202	6.692	6.692	(0.879)	43747	5.09405	1362.0463(R)
17 Benzo(a)anthracene	228	7.604	7.603	(0.999)	30718	3.59853	962.1738(R)
19 Chrysene	228	7.633	7.633	(1.003)	31586	3.74043	1000.1137(R)
20 Benzo(b)fluoranthene	252	8.427	8.433	(0.962)	30772	3.92936	1050.6312(R)
21 Benzo(k)fluoranthene	252	8.445	8.456	(0.964)	22532	2.54267	679.8591
22 Benzo(a)pyrene	252	8.709	8.709	(0.994)	25963	3.20725	857.5536
24 Indeno(1,2,3-cd)pyrene	276	9.868	9.874	(1.126)	19971	3.12264	834.9292(M)
25 Dibenzo(a,h)anthracene	278	9.886	9.886	(1.128)	11139	1.84998	494.6463
26 Benzo(g,h,i)perylene	276	10.203	10.209	(1.164)	19927	2.62627	702.2111

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: 1CD22018.D

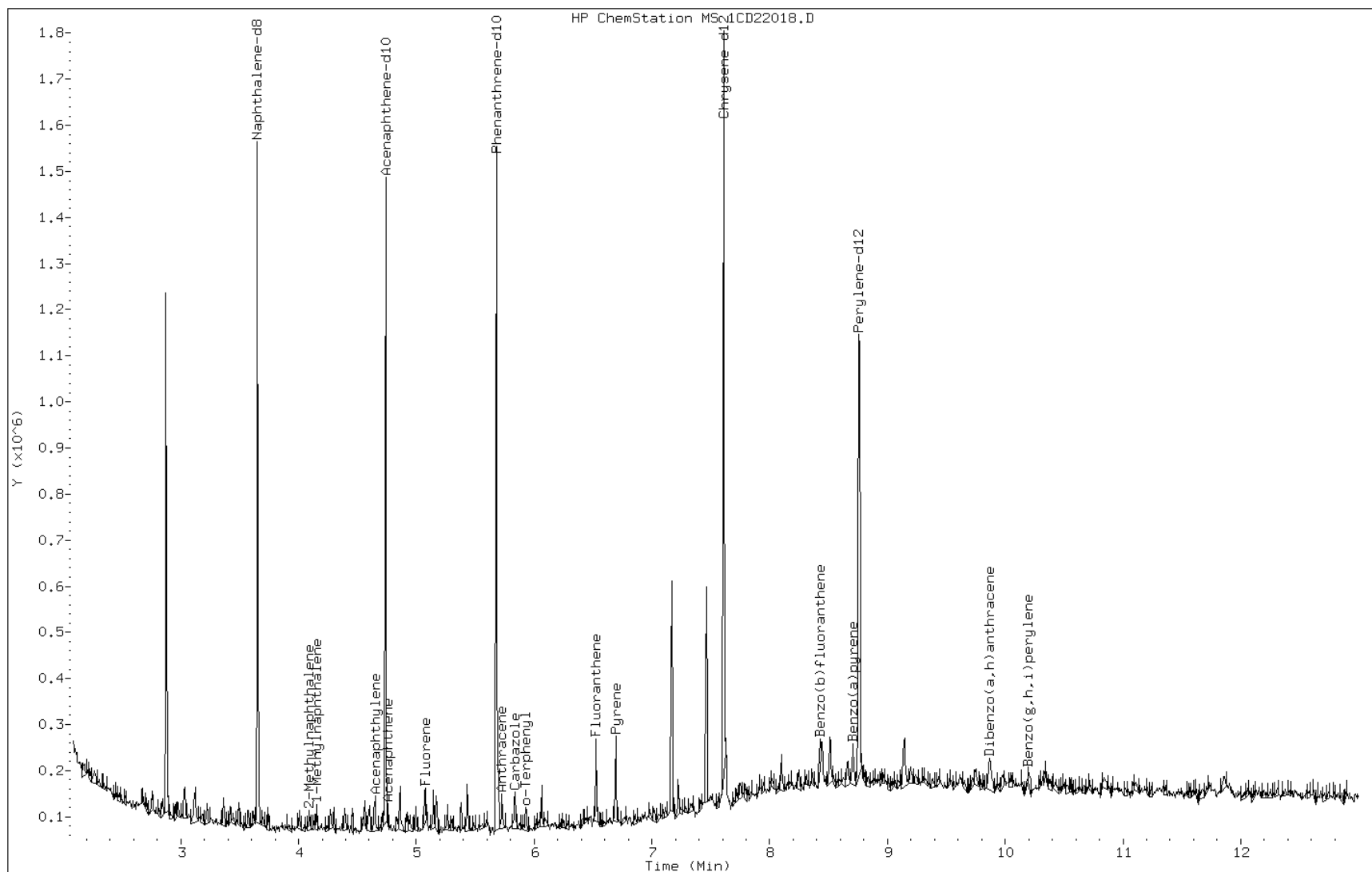
Date: 22-APR-2013 17:10

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89328-a-8-c msd

Operator: SCC

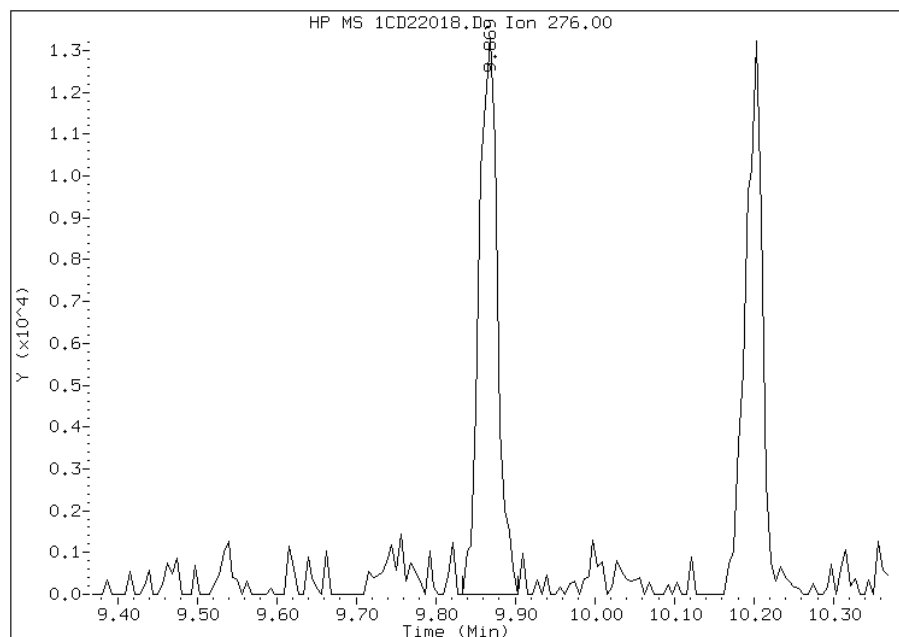


Manual Integration Report

Data File: 1CD22018.D
Inj. Date and Time: 22-APR-2013 17:10
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/23/2013

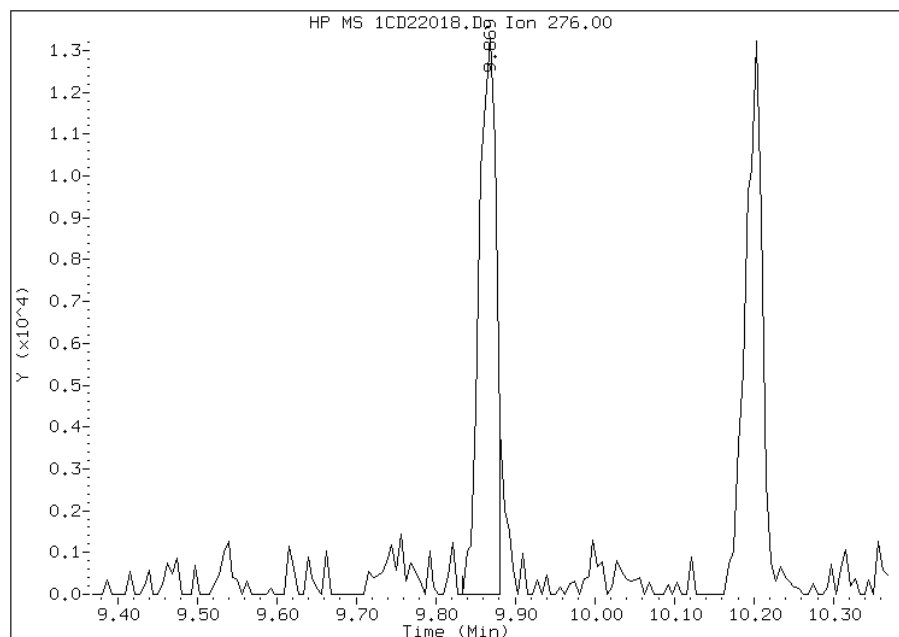
Processing Integration Results

RT: 9.87
Response: 21422
Amount: 3
Conc: 883



Manual Integration Results

RT: 9.87
Response: 19971
Amount: 3
Conc: 835



Manually Integrated By: cantins
Modification Date: 23-Apr-2013 16:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: _____	Lab Sample ID: <u>680-89328-A-25-C MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD23012.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/19/2013 15:35</u>
Sample wt/vol: <u>15.00(g)</u>	Date Analyzed: <u>04/23/2013 17:07</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>22.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136756</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	506	J	520	100
208-96-8	Acenaphthylene	570		210	26
120-12-7	Anthracene	567		44	22
56-55-3	Benzo[a]anthracene	812		41	20
50-32-8	Benzo[a]pyrene	724		54	27
205-99-2	Benzo[b]fluoranthene	945		63	32
191-24-2	Benzo[g,h,i]perylene	823		100	23
207-08-9	Benzo[k]fluoranthene	636		41	19
218-01-9	Chrysene	910		47	23
53-70-3	Dibenz(a,h)anthracene	706		100	21
206-44-0	Fluoranthene	930		100	21
86-73-7	Fluorene	550		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	771		100	37
90-12-0	1-Methylnaphthalene	651		210	23
91-57-6	2-Methylnaphthalene	673		210	37
91-20-3	Naphthalene	586		210	23
85-01-8	Phenanthrene	865		41	20
129-00-0	Pyrene	876		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\1DD23012.D
Lab Smp Id: 680-89328-A-25-C MS
Inj Date : 23-APR-2013 17:07
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89328-A-25-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042313.b\dFASTPAHi.m
Meth Date : 23-Apr-2013 14:46 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS			
		QUANT	SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.053	6.051	(1.000)	1786951	40.0000		
*	6 Acenaphthene-d10	164	7.734	7.732	(1.000)	1009070	40.0000		
*	9 Phenanthrene-d10	188	8.997	8.995	(1.000)	1671555	40.0000		
\$	13 o-Terphenyl	230	9.303	9.306	(1.034)	36546	1.45105	390	
*	17 Chrysene-d12	240	11.300	11.304	(1.000)	1598940	40.0000		
*	22 Perylene-d12	264	13.128	13.120	(1.000)	1867332	40.0000		
	2 Naphthalene	128	6.071	6.075	(1.003)	75347	1.69641	450	
	3 2-Methylnaphthalene	142	6.782	6.780	(1.120)	55882	1.94903	520	
	4 1-Methylnaphthalene	142	6.870	6.874	(1.135)	50994	1.88336	500	
	5 Acenaphthylene	152	7.605	7.608	(0.983)	70440	1.64933	440	
	7 Acenaphthene	154	7.757	7.761	(1.003)	38646	1.46595	390	
	8 Fluorene	166	8.204	8.208	(1.061)	49670	1.59105	420	
	10 Phenanthrene	178	9.009	9.013	(1.001)	115282	2.50382	670	
	11 Anthracene	178	9.050	9.054	(1.006)	75060	1.64251	440	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.191	9.195	(1.022)	63235	1.56876	420
14 Fluoranthene	202	9.996	10.000	(1.111)	127494	2.69089	720
15 Pyrene	202	10.184	10.188	(0.901)	121748	2.53557	680
16 Benzo(a)anthracene	228	11.289	11.287	(0.999)	108693	2.35121	630
18 Chrysene	228	11.324	11.328	(1.002)	114153	2.63353	700
19 Benzo(b)fluoranthene	252	12.581	12.585	(0.958)	127650	2.73655	730
20 Benzo(k)fluoranthene	252	12.610	12.620	(0.961)	90490	1.84139	490
21 Benzo(a)pyrene	252	13.028	13.032	(0.992)	98224	2.09572	560
23 Indeno(1,2,3-cd)pyrene	276	14.696	14.706	(1.119)	111547	2.23201	600(M)
24 Dibenzo(a,h)anthracene	278	14.726	14.735	(1.122)	96200	2.04413	540
25 Benzo(g,h,i)perylene	276	15.131	15.141	(1.153)	114596	2.38147	640

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD23012.D

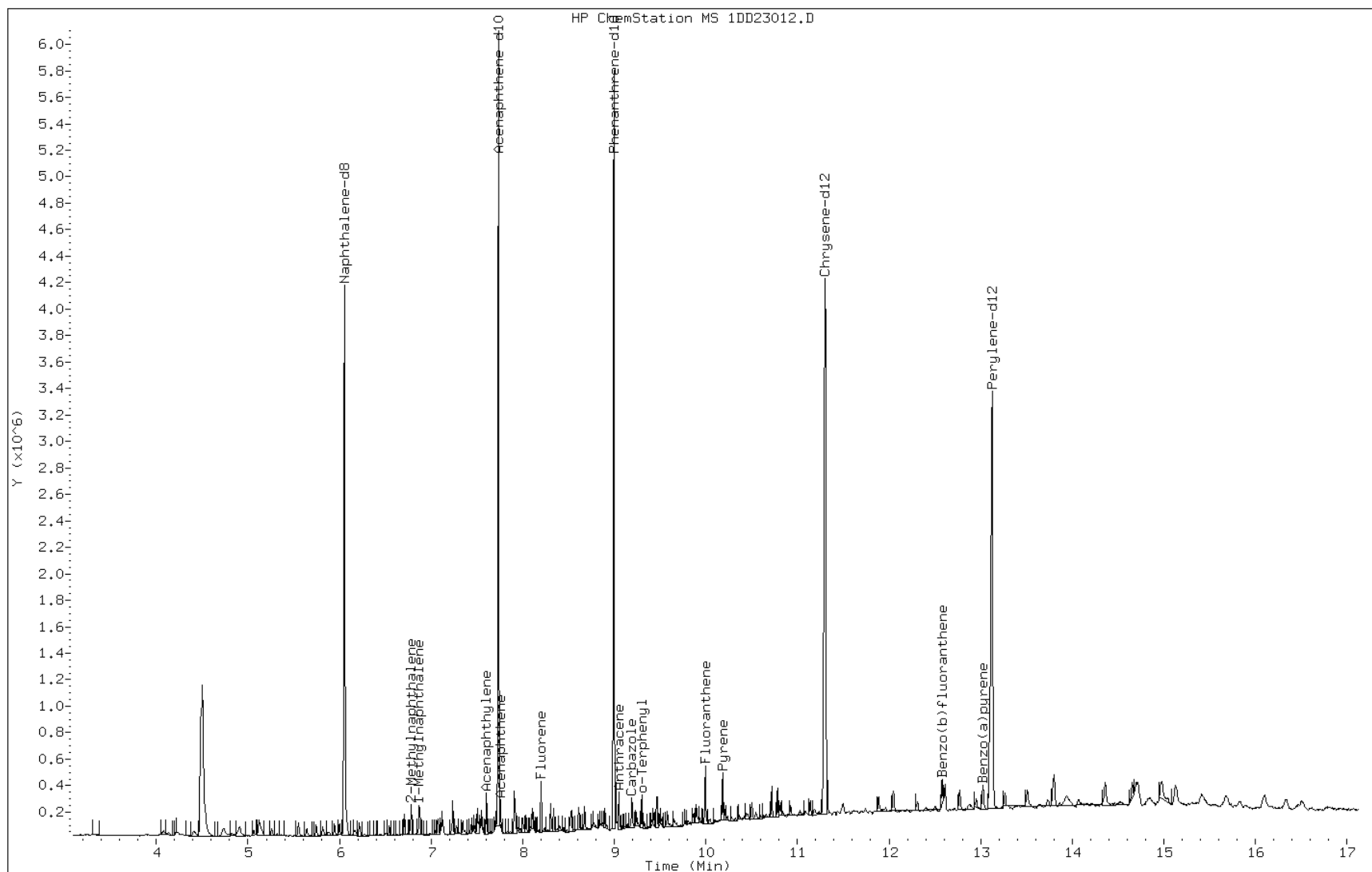
Date: 23-APR-2013 17:07

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89328-A-25-C MSD

Operator: SCC

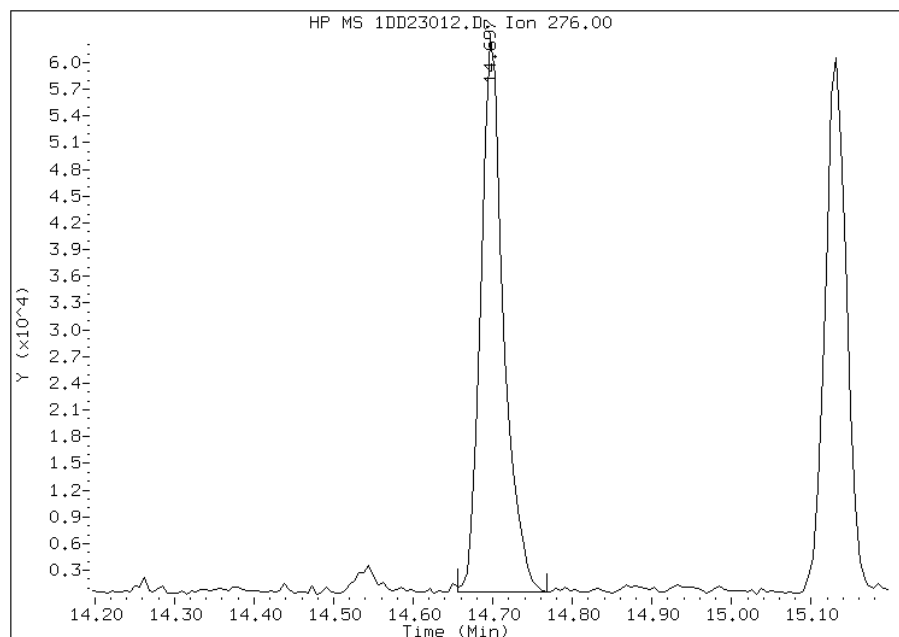


Manual Integration Report

Data File: 1DD23012.D
Inj. Date and Time: 23-APR-2013 17:07
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

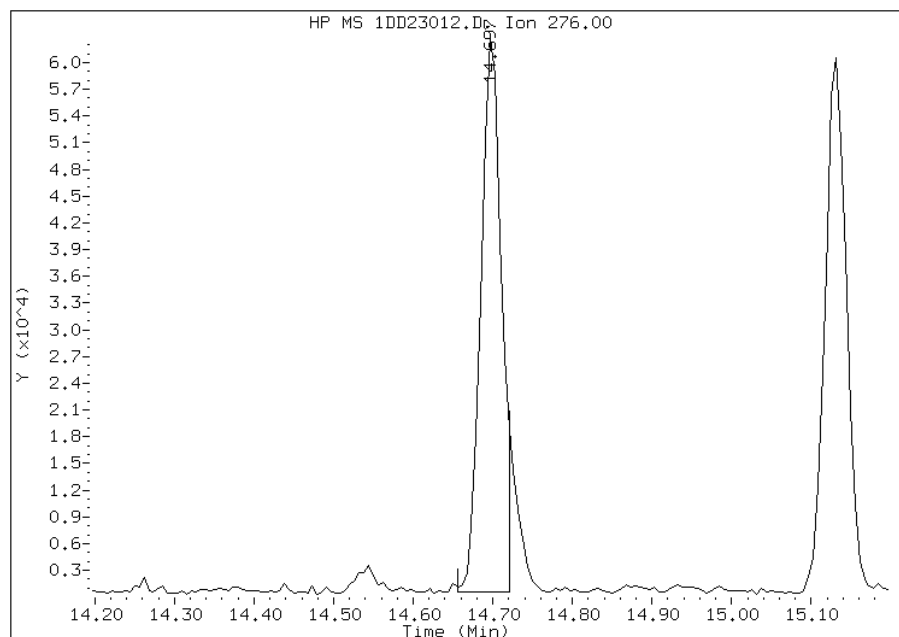
Processing Integration Results

RT: 14.70
Response: 123391
Amount: 2
Conc: 658



Manual Integration Results

RT: 14.70
Response: 111547
Amount: 2
Conc: 595



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 13:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Tampa</u>	Job No.: <u>680-89459-1</u>
SDG No.: <u>68089459-1</u>	
Client Sample ID: <u>CV1066B-CS-SP MSD</u>	Lab Sample ID: <u>680-89459-12 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>1DD24018.D</u>
Analysis Method: <u>8270C LL</u>	Date Collected: <u>04/16/2013 11:30</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/23/2013 14:49</u>
Sample wt/vol: <u>15.08(g)</u>	Date Analyzed: <u>04/24/2013 18:25</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>22.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>136826</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	427	J	510	100
208-96-8	Acenaphthylene	518		210	26
120-12-7	Anthracene	538		43	22
56-55-3	Benzo[a]anthracene	794		41	20
50-32-8	Benzo[a]pyrene	743		53	27
205-99-2	Benzo[b]fluoranthene	1020		63	31
191-24-2	Benzo[g,h,i]perylene	561		100	23
207-08-9	Benzo[k]fluoranthene	669		41	19
218-01-9	Chrysene	915		46	23
53-70-3	Dibenz(a,h)anthracene	474		100	21
206-44-0	Fluoranthene	832		100	21
86-73-7	Fluorene	456		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	530		100	37
90-12-0	1-Methylnaphthalene	745		210	23
91-57-6	2-Methylnaphthalene	735		210	37
91-20-3	Naphthalene	639		210	23
85-01-8	Phenanthrene	739		41	20
129-00-0	Pyrene	737		100	19

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24018.D
Lab Smp Id: 680-89459-A-12-C MS
Inj Date : 24-APR-2013 18:25
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-12-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\dFASTPAHi.m
Meth Date : 24-Apr-2013 13:05 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 18 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	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/l)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	=====	=====	
*	1 Naphthalene-d8	136	6.048	6.049	(1.000)	2135220	40.0000		
*	6 Acenaphthene-d10	164	7.729	7.730	(1.000)	1306096	40.0000		
*	9 Phenanthrene-d10	188	8.992	8.993	(1.000)	2167620	40.0000		
\$	13 o-Terphenyl	230	9.297	9.298	(1.034)	42057	1.28771	340	
*	17 Chrysene-d12	240	11.301	11.302	(1.000)	2289978	40.0000		
*	22 Perylene-d12	264	13.128	13.123	(1.000)	2478345	40.0000		
	2 Naphthalene	128	6.072	6.073	(1.004)	98982	1.86505	490	
	3 2-Methylnaphthalene	142	6.777	6.778	(1.120)	73407	2.14267	570	
	4 1-Methylnaphthalene	142	6.871	6.872	(1.136)	70318	2.17346	580	
	5 Acenaphthylene	152	7.599	7.600	(0.983)	83553	1.51146	400	
	7 Acenaphthene	154	7.752	7.759	(1.003)	42466	1.24452	330	
	8 Fluorene	166	8.199	8.200	(1.061)	53718	1.32940	350	
	10 Phenanthrene	178	9.010	9.010	(1.002)	128652	2.15474	570	
	11 Anthracene	178	9.045	9.052	(1.006)	93015	1.56960	420	

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
12 Carbazole	167	9.186	9.193	(1.022)	68823	1.31665	350
14 Fluoranthene	202	9.991	9.997	(1.111)	149081	2.42642	640
15 Pyrene	202	10.179	10.185	(0.901)	147814	2.14946	570
16 Benzo(a)anthracene	228	11.289	11.284	(0.999)	153325	2.31581	610
18 Chrysene	228	11.319	11.331	(1.002)	165717	2.66943	710
19 Benzo(b)fluoranthene	252	12.576	12.583	(0.958)	184188	2.97511	790
20 Benzo(k)fluoranthene	252	12.605	12.618	(0.960)	127253	1.95107	520
21 Benzo(a)pyrene	252	13.023	13.029	(0.992)	134767	2.16651	570
23 Indeno(1,2,3-cd)pyrene	276	14.697	14.710	(1.119)	102439	1.54441	410(M)
24 Dibenzo(a,h)anthracene	278	14.721	14.733	(1.121)	86443	1.38396	370
25 Benzo(g,h,i)perylene	276	15.132	15.150	(1.153)	104541	1.63690	430

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24018.D

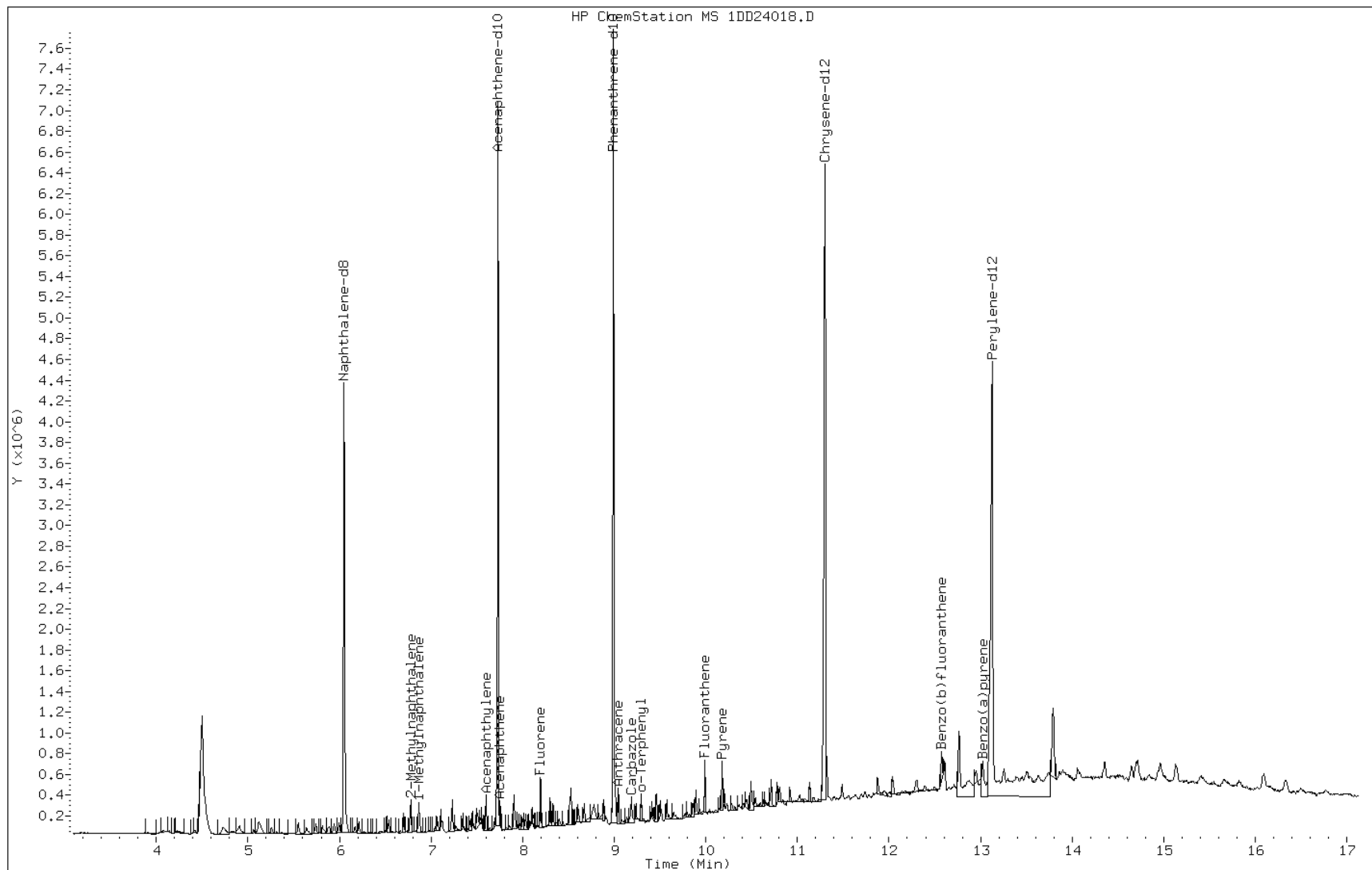
Date: 24-APR-2013 18:25

Client ID:

Instrument: BSMSD.i

Sample Info: 680-89459-A-12-C MSD

Operator: SCC

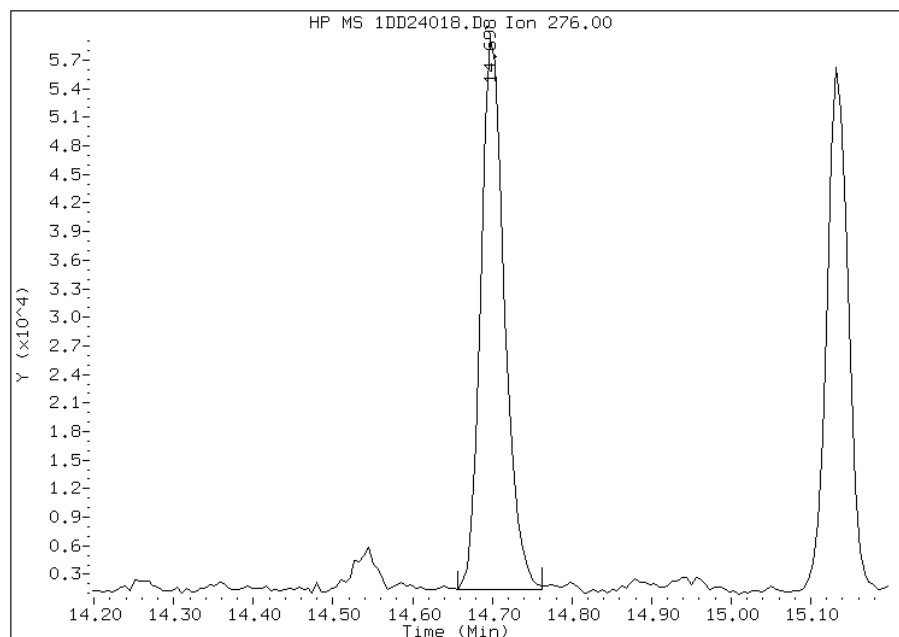


Manual Integration Report

Data File: 1DD24018.D
Inj. Date and Time: 24-APR-2013 18:25
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

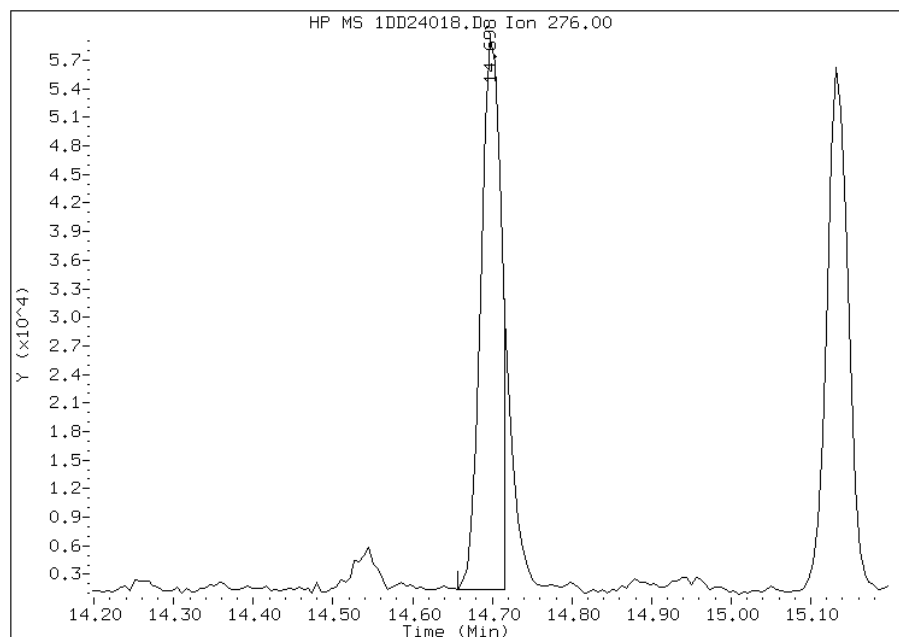
Processing Integration Results

RT: 14.70
Response: 119360
Amount: 2
Conc: 477



Manual Integration Results

RT: 14.70
Response: 102439
Amount: 2
Conc: 410



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:12
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973Start Date: 04/11/2013 11:01Analysis Batch Number: 136370End Date: 04/11/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/11/2013 11:01	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 11:20	1		DB-5MS 250 (um)
DFTTP 660-136370/2		04/11/2013 11:38	1	1CD11002.D	DB-5MS 250 (um)
ICIS 660-136370/3		04/11/2013 11:56	1	1CD11003.D	DB-5MS 250 (um)
IC 660-136370/4		04/11/2013 12:35	1	1CD11004.D	DB-5MS 250 (um)
IC 660-136370/5		04/11/2013 12:53	1	1CD11005.D	DB-5MS 250 (um)
IC 660-136370/6		04/11/2013 13:11	1	1CD11006.D	DB-5MS 250 (um)
IC 660-136370/7		04/11/2013 13:30	1	1CD11007.D	DB-5MS 250 (um)
IC 660-136370/8		04/11/2013 13:48	1	1CD11008.D	DB-5MS 250 (um)
IC 660-136370/9		04/11/2013 14:06	1	1CD11009.D	DB-5MS 250 (um)
ICV 660-136370/10		04/11/2013 14:25	1	1CD11010.D	DB-5MS 250 (um)
ZZZZZ		04/11/2013 14:51	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:10	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:28	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 15:46	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:05	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:23	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 16:41	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:00	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:18	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:36	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 17:54	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:13	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:31	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:08	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:26	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 19:44	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:03	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:21	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:39	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 20:58	4		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:16	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:34	1		DB-5MS 250 (um)
ZZZZZ		04/11/2013 21:53	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMC5973Start Date: 04/22/2013 10:57Analysis Batch Number: 136698End Date: 04/22/2013 22:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/22/2013 10:57	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 11:15	1		DB-5MS 250 (um)
DFTTP 660-136698/2		04/22/2013 11:33	1	1CD22002.D	DB-5MS 250 (um)
CCVIS 660-136698/3		04/22/2013 11:50	1	1CD22003.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 12:12	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 12:30	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 12:48	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 13:07	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 13:26	10		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:05	10		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:33	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 14:51	25		DB-5MS 250 (um)
MB 660-136637/1-A		04/22/2013 15:20	1	1CD22012.D	DB-5MS 250 (um)
LCS 660-136637/2-A		04/22/2013 15:38	1	1CD22013.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 16:15	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 16:33	4		DB-5MS 250 (um)
680-89328-A-8-B MS		04/22/2013 16:51	4	1CD22017.D	DB-5MS 250 (um)
680-89328-A-8-C MSD		04/22/2013 17:10	4	1CD22018.D	DB-5MS 250 (um)
ZZZZZ		04/22/2013 17:28	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 17:46	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 18:05	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 18:23	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 18:41	4		DB-5MS 250 (um)
ZZZZZ		04/22/2013 19:00	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 19:18	1		DB-5MS 250 (um)
ZZZZZ		04/22/2013 19:36	1		DB-5MS 250 (um)
680-89459-1	FM0013A-CS	04/22/2013 19:55	1	1CD22027.D	DB-5MS 250 (um)
680-89459-2	FM0013B-CS	04/22/2013 20:13	1	1CD22028.D	DB-5MS 250 (um)
680-89459-3	FM0015A-CS	04/22/2013 20:31	1	1CD22029.D	DB-5MS 250 (um)
680-89459-4	FM0015B-CS	04/22/2013 20:50	1	1CD22030.D	DB-5MS 250 (um)
680-89459-5	FM0015C-GS	04/22/2013 21:08	4	1CD22031.D	DB-5MS 250 (um)
680-89459-6	FM0337A-CS	04/22/2013 21:26	1	1CD22032.D	DB-5MS 250 (um)
680-89459-7	FM0337B-CS	04/22/2013 21:45	1	1CD22033.D	DB-5MS 250 (um)
680-89459-8	FM0337B-CSD	04/22/2013 22:03	1	1CD22034.D	DB-5MS 250 (um)
680-89459-9	FM0342A-CS	04/22/2013 22:22	1	1CD22035.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-1SDG No.: 68089459-1Instrument 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)
DFTTP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250 (um)
DFTTP 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.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973Start Date: 04/23/2013 11:41Analysis Batch Number: 136756End Date: 04/24/2013 00:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/23/2013 11:41	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 12:03	1		DB-5MS 250 (um)
DFTTP 660-136756/2		04/23/2013 12:28	1		DB-5MS 250 (um)
DFTTP 660-136756/3		04/23/2013 12:50	1	1DD23003.D	DB-5MS 250 (um)
CCVIS 660-136756/4		04/23/2013 13:06	1	1DD23004.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 13:29	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 14:52	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 15:14	4		DB-5MS 250 (um)
MB 660-136660/1-A		04/23/2013 15:37	1	1DD23008.D	DB-5MS 250 (um)
LCS 660-136660/2-A		04/23/2013 15:59	1	1DD23009.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 16:22	4		DB-5MS 250 (um)
680-89328-A-25-B MS		04/23/2013 16:44	4	1DD23011.D	DB-5MS 250 (um)
680-89328-A-25-C MSD		04/23/2013 17:07	4	1DD23012.D	DB-5MS 250 (um)
680-89459-10	FM0342B-CS	04/23/2013 17:29	1	1DD23013.D	DB-5MS 250 (um)
680-89459-11	CV1066A-CS-SP	04/23/2013 17:52	4	1DD23014.D	DB-5MS 250 (um)
680-89459-13	CV1225A-CS-SP	04/23/2013 18:14	4	1DD23015.D	DB-5MS 250 (um)
680-89459-14	CV1282A-CS-SP	04/23/2013 18:37	4	1DD23016.D	DB-5MS 250 (um)
680-89459-15	CV1282B-CS-SP	04/23/2013 19:00	4	1DD23017.D	DB-5MS 250 (um)
680-89459-16	CV1282C-CS-SP	04/23/2013 19:22	4	1DD23018.D	DB-5MS 250 (um)
680-89459-17	CV1282D-CS-SP	04/23/2013 19:45	4	1DD23019.D	DB-5MS 250 (um)
680-89459-18	CV1217A-CS	04/23/2013 20:07	4	1DD23020.D	DB-5MS 250 (um)
680-89459-19	CV1217B-CS	04/23/2013 20:30	4	1DD23021.D	DB-5MS 250 (um)
680-89459-20	CV1219A-CS	04/23/2013 20:52	1	1DD23022.D	DB-5MS 250 (um)
ZZZZZ		04/23/2013 21:15	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 21:38	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:00	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:23	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 22:45	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:08	1		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:30	4		DB-5MS 250 (um)
ZZZZZ		04/23/2013 23:53	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 00:16	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89459-1SDG No.: 68089459-1Instrument ID: BSMD5973Start Date: 04/24/2013 12:06Analysis Batch Number: 136826End Date: 04/25/2013 00:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 12:06	1		DB-5MS 250 (um)
DFTTP 660-136826/2		04/24/2013 12:30	1	1DD24002.D	DB-5MS 250 (um)
CCVIS 660-136826/3		04/24/2013 12:46	1	1DD24003.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:10	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 13:55	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 14:18	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 14:40	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:03	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:25	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 15:48	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 16:10	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 16:33	1		DB-5MS 250 (um)
MB 660-136752/1-A		04/24/2013 16:55	1	1DD24014.D	DB-5MS 250 (um)
LCS 660-136752/2-A		04/24/2013 17:18	1	1DD24015.D	DB-5MS 250 (um)
680-89459-12	CV1066B-CS-SP	04/24/2013 17:40	4	1DD24016.D	DB-5MS 250 (um)
680-89459-12 MS	CV1066B-CS-SP MS	04/24/2013 18:03	4	1DD24017.D	DB-5MS 250 (um)
680-89459-12 MSD	CV1066B-CS-SP MSD	04/24/2013 18:25	4	1DD24018.D	DB-5MS 250 (um)
ZZZZZ		04/24/2013 18:48	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:10	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:33	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 19:55	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:18	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 20:40	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:03	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:26	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 21:48	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:11	4		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:33	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 22:56	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:18	1		DB-5MS 250 (um)
ZZZZZ		04/24/2013 23:41	1		DB-5MS 250 (um)
ZZZZZ		04/25/2013 00:03	4		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136637 Batch Start Date: 04/19/13 11:14 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/19/13 16:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136637/1		3546, 8270C LL		15.41 g	1 mL		1 mL		
LCS 660-136637/2		3546, 8270C LL		15.15 g	1 mL	1 mL	1 mL		
680-89328-A-8 MS		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89328-A-8 MSD		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89459-A-1	FM0013A-CS	3546, 8270C LL	T	15.41 g	1 mL		1 mL		
680-89459-A-2	FM0013B-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-89459-A-3	FM0015A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-89459-A-4	FM0015B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-89459-A-5	FM0015C-GS	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89459-A-6	FM0337A-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-89459-A-7	FM0337B-CS	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-89459-A-8	FM0337B-CSD	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-89459-A-9	FM0342A-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136637 Batch Start Date: 04/19/13 11:14 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/19/13 16:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 70
Microwave Start Time	13:00 4/19/13
Microwave Stop Time	13:35 4/19/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT_179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136660 Batch Start Date: 04/19/13 15:35 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/22/13 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136660/1		3546, 8270C LL		14.92 g	1 mL		1 mL		
LCS 660-136660/2		3546, 8270C LL		15.32 g	1 mL	1 mL	1 mL		
680-89328-A-25 MS		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89328-A-25 MSD		3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-89459-A-10	FM0342B-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89459-A-11	CV1066A-CS-SP	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89459-A-13	CV1225A-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89459-A-14	CV1282A-CS-SP	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-89459-A-15	CV1282B-CS-SP	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-89459-A-16	CV1282C-CS-SP	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-89459-A-17	CV1282D-CS-SP	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-89459-A-18	CV1217A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89459-A-19	CV1217B-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-89459-A-20	CV1219A-CS	3546, 8270C LL	T	14.98 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.: 680-89459-1SDG No.: 68089459-1Batch Number: 136660 Batch Start Date: 04/19/13 15:35 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/22/13 11:30

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
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 71
Microwave Start Time	16:40 4/19/13
Microwave Stop Time	17:15 4/19/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/24/13 14:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136752/1		3546, 8270C LL		15.31 g	1 mL		1 mL		
LCS 660-136752/2		3546, 8270C LL		15.23 g	1 mL	1 mL	1 mL		
680-89459-A-12	CV1066B-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-89459-A-12 MS	CV1066B-CS-SP	3546, 8270C LL	T	15.08 g	1 mL	1 mL	1 mL		
680-89459-A-12 MSD	CV1066B-CS-SP	3546, 8270C LL	T	15.08 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 72
Microwave Start Time	16:30 4/23/13
Microwave Stop Time	17:05 4/23/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/24/13 14:10

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: 680-89459-1
SDG No.: 68089459-1
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
FM0013A-CS	680-89459-1
FM0013B-CS	680-89459-2
FM0015A-CS	680-89459-3
FM0015B-CS	680-89459-4
FM0015C-GS	680-89459-5
FM0337A-CS	680-89459-6
FM0337B-CS	680-89459-7
FM0337B-CSD	680-89459-8
FM0342A-CS	680-89459-9
FM0342B-CS	680-89459-10
CV1066A-CS-SP	680-89459-11
CV1066B-CS-SP	680-89459-12
CV1225A-CS-SP	680-89459-13
CV1282A-CS-SP	680-89459-14
CV1282B-CS-SP	680-89459-15
CV1282C-CS-SP	680-89459-16
CV1282D-CS-SP	680-89459-17
CV1217A-CS	680-89459-18
CV1217B-CS	680-89459-19
CV1219A-CS	680-89459-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89459-1
SDG Number: 68089459-1
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: 680-89459-1
SDG Number: 68089459-1
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.: 680-89459-1

SDG No.: 68089459-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/19/2013 06:58 End Date: 04/19/2013 06:58

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
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ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-10	1	T	06:58	X															
ZZZZZZ			06:58																
680-89459-15	1	T	06:58	X															
680-89459-3	1	T	06:58	X															
680-89459-16	1	T	06:58	X															
ZZZZZZ			06:58																
680-89459-18	1	T	06:58	X															
680-89459-11	1	T	06:58	X															
ZZZZZZ			06:58																
680-89459-9	1	T	06:58	X															
680-89459-2	1	T	06:58	X															
680-89459-4	1	T	06:58	X															
680-89459-1	1	T	06:58	X															
680-89459-5	1	T	06:58	X															
680-89459-6	1	T	06:58	X															
680-89459-7	1	T	06:58	X															
680-89459-8	1	T	06:58	X															
680-89459-19	1	T	06:58	X															
680-89459-17	1	T	06:58	X															
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
ZZZZZZ			06:58																
680-89459-13	1	T	06:58	X															
ZZZZZZ			06:58																
680-89459-20	1	T	06:58	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89459-1

SDG No.: 68089459-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/19/2013 06:58 End Date: 04/19/2013 06:58

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M o i s t																	
680-89459-14	1	T	06:58	X																	
ZZZZZZ			06:58																		
680-89459-12	1	T	06:58	X																	
680-89459-12 MS	1	T	06:58	X																	
680-89459-12 MSD	1	T	06:58	X																	
ZZZZZZ			06:58																		
ZZZZZZ			06:58																		
ZZZZZZ			06:58																		

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89459-1SDG No.: 68089459-1Batch Number: 136617 Batch Start Date: 04/19/13 06:58 Batch Analyst: Galio, AndrewBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89459-A-10	FM0342B-CS	Moisture	T	15	0 g	4.52 g	3.60 g		
680-89459-A-15	CV1282B-CS-SP	Moisture	T	17	0 g	4.44 g	3.53 g		
680-89459-A-3	FM0015A-CS	Moisture	T	18	0 g	4.54 g	3.42 g		
680-89459-A-16	CV1282C-CS-SP	Moisture	T	19	0 g	4.75 g	3.66 g		
680-89459-A-18	CV1217A-CS	Moisture	T	21	0 g	4.20 g	3.32 g		
680-89459-A-11	CV1066A-CS-SP	Moisture	T	22	0 g	4.65 g	3.73 g		
680-89459-A-9	FM0342A-CS	Moisture	T	24	0 g	4.54 g	3.70 g		
680-89459-A-2	FM0013B-CS	Moisture	T	25	0 g	4.20 g	2.98 g		
680-89459-A-4	FM0015B-CS	Moisture	T	26	0 g	4.36 g	3.41 g		
680-89459-A-1	FM0013A-CS	Moisture	T	27	0 g	4.55 g	3.41 g		
680-89459-A-5	FM0015C-GS	Moisture	T	28	0 g	4.59 g	3.33 g		
680-89459-A-6	FM0337A-CS	Moisture	T	29	0 g	5.16 g	4.08 g		
680-89459-A-7	FM0337B-CS	Moisture	T	30	0 g	5.69 g	4.50 g		
680-89459-A-8	FM0337B-CSD	Moisture	T	31	0 g	4.26 g	3.30 g		
680-89459-A-19	CV1217B-CS	Moisture	T	32	0 g	5.17 g	3.32 g		
680-89459-A-17	CV1282D-CS-SP	Moisture	T	33	0 g	5.23 g	4.13 g		
680-89459-A-13	CV1225A-CS-SP	Moisture	T	40	0 g	4.52 g	3.75 g		
680-89459-A-20	CV1219A-CS	Moisture	T	42	0 g	4.23 g	3.36 g		
680-89459-A-14	CV1282A-CS-SP	Moisture	T	43	0 g	4.50 g	3.64 g		
680-89459-A-12	CV1066B-CS-SP	Moisture	T	45	0 g	5.39 g	4.17 g		
680-89459-A-12 MS	CV1066B-CS-SP	Moisture	T	45	0 g	5.39 g	4.17 g		
680-89459-A-12 MSD	CV1066B-CS-SP	Moisture	T	45	0 g	5.39 g	4.17 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.19.13

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 59210

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testam
Phone: (912) 354-785
Fax: (912) 352-0165

Loc: 680
89459

☒ Alternate Laboratory Name/Location
Test Am Tampa

Phone:
Fax:

LC

PROJECT REFERENCE <i>35m Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>3</i>

(b) (6)

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)
10 calendar day TAT
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME																	
4-16-13	1040	FM0013A-CS	C	X			X											
	1050	FM0013B-CS	C	X			X											
	1000	FM0015A-CS	C	X			X											
	1010	FM0015B-CS	C	X			X											
	1020	FM0015C-GS	G	X			X											
	0845	FM0337A-CS	C	X			X											
	0900	FM0337B-CS	C	X			X											
	0900	FM0337B-CSD	C	X			X											
	0910	FM0342A-CS	C	X			X											
	0920	FM0342B-CS	C	X			X											
	1115	CV1066A-CS-SP	C	X			X											
	1130	CV1066B-CS-SP	C	X			X	X										

680-89459 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-17-13</i>	TIME <i>1000</i>	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4/18/13</i>	TIME <i>1712</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-18-13</i>	TIME <i>0830</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/19/13</i>	TIME <i>0745</i>	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO: <i>680-89459</i>	LABORATORY REMARKS <i>1.8 cu-07 1.9°C</i>

Serial Number 64607

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☒ Alternate Laboratory Name/Location

Test Am. Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave. Removal		PROJECT NO. 2005198-1356	PROJECT LOCATION (STATE) FL	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, ...)	LL PRAH	RCRA 8 metals	STANDARD REPORT DELIVERY ☐									
											DATE DUE _____									
COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) ☐															
					DATE DUE _____															
				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:																
SAMPLE		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS SUBMITTED										REMARKS						
DATE	TIME																			
4-16-13	1045	CV1225A-CS-SP		C	A				X											
	0930	CV1282A-CS-SP		C	X				X											
	0940	CV1282B-CS-SP		C	X				X											
	0955	CV1282C-CS-SP		C	X				X	X										
	1005	CV1282D-CS-SP		C	X				X											
	1415	CV1217A-CS		C	X				X											
	1425	CV1217B-CS		C	X				X											
	1350	CV1219A-CS		C	X				X											
	1350	CV1219A-CSD		C	X				X											
	1400	CV1219B-CS		C	X				X											
	1310	CV1344A-CS		C	X				X											
	1310	CV1344A-CSD		C	X				X											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME					
<i>[Signature]</i>		4-17-13	1000	<i>[Signature]</i>		4-18-13	1710													
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME					
<i>[Signature]</i>		4-18-13	0830																	
LABORATORY USE ONLY																				
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES ☐ NO ☐	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS 18 CV-07													

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

SDG Number: 68089459-1

Login Number: 89459

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

SDG Number: 68089459-1

Login Number: 89459

List Source: TestAmerica Tampa

List Number: 1

List Creation: 04/18/13 04:57 PM

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-89459-1

TestAmerica Sample Delivery Group: 68089459-1

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:

4/29/2013 4:39:23 PM

Bernard Kirkland

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Project Manager II

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Case Narrative

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Job ID: 680-89459-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89459-1

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 04/18/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0013A-CS (680-89459-1), FM0013B-CS (680-89459-2), FM0015A-CS (680-89459-3), FM0015B-CS (680-89459-4), FM0015C-GS (680-89459-5), FM0337A-CS (680-89459-6), FM0337B-CS (680-89459-7), FM0337B-CSD (680-89459-8), FM0342A-CS (680-89459-9), FM0342B-CS (680-89459-10), CV1066A-CS-SP (680-89459-11), CV1066B-CS-SP (680-89459-12), CV1225A-CS-SP (680-89459-13), CV1282A-CS-SP (680-89459-14), CV1282B-CS-SP (680-89459-15), CV1282C-CS-SP (680-89459-16), CV1282D-CS-SP (680-89459-17), CV1217A-CS (680-89459-18), CV1217B-CS (680-89459-19) and CV1219A-CS (680-89459-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/19/2013 and 04/23/2013 and analyzed on 04/22/2013, 04/23/2013 and 04/24/2013.

Samples FM0015C-GS (680-89459-5)[4X], CV1066A-CS-SP (680-89459-11)[4X], CV1066B-CS-SP (680-89459-12)[4X], CV1225A-CS-SP (680-89459-13)[4X], CV1282A-CS-SP (680-89459-14)[4X], CV1282B-CS-SP (680-89459-15)[4X], CV1282C-CS-SP (680-89459-16)[4X], CV1282D-CS-SP (680-89459-17)[4X], CV1217A-CS (680-89459-18)[4X] and CV1217B-CS (680-89459-19)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]pyrene recovered outside the recovery criteria for the MS of sample 680-89328-25 in batch 660-136756.

Several analytes recovered outside the recovery criteria for the MSD of sample 680-89328-8 in batch 660-136698. Several also exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1066B-CS-SP (680-89459-12) in batch 660-136826.

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: 680-89459-1
SDG: 68089459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89459-1	FM0013A-CS	Solid	04/16/13 10:40	04/18/13 08:30
680-89459-2	FM0013B-CS	Solid	04/16/13 10:50	04/18/13 08:30
680-89459-3	FM0015A-CS	Solid	04/16/13 10:00	04/18/13 08:30
680-89459-4	FM0015B-CS	Solid	04/16/13 10:10	04/18/13 08:30
680-89459-5	FM0015C-GS	Solid	04/16/13 10:20	04/18/13 08:30
680-89459-6	FM0337A-CS	Solid	04/16/13 08:45	04/18/13 08:30
680-89459-7	FM0337B-CS	Solid	04/16/13 09:00	04/18/13 08:30
680-89459-8	FM0337B-CSD	Solid	04/16/13 09:00	04/18/13 08:30
680-89459-9	FM0342A-CS	Solid	04/16/13 09:10	04/18/13 08:30
680-89459-10	FM0342B-CS	Solid	04/16/13 09:20	04/18/13 08:30
680-89459-11	CV1066A-CS-SP	Solid	04/16/13 11:15	04/18/13 08:30
680-89459-12	CV1066B-CS-SP	Solid	04/16/13 11:30	04/18/13 08:30
680-89459-13	CV1225A-CS-SP	Solid	04/16/13 10:45	04/18/13 08:30
680-89459-14	CV1282A-CS-SP	Solid	04/16/13 09:30	04/18/13 08:30
680-89459-15	CV1282B-CS-SP	Solid	04/16/13 09:40	04/18/13 08:30
680-89459-16	CV1282C-CS-SP	Solid	04/16/13 09:55	04/18/13 08:30
680-89459-17	CV1282D-CS-SP	Solid	04/16/13 10:05	04/18/13 08:30
680-89459-18	CV1217A-CS	Solid	04/16/13 14:15	04/18/13 08:30
680-89459-19	CV1217B-CS	Solid	04/16/13 14:25	04/18/13 08:30
680-89459-20	CV1219A-CS	Solid	04/16/13 13:50	04/18/13 08:30

Method Summary

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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: 680-89459-1
SDG: 68089459-1

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	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0013A-CS

Lab Sample ID: 680-89459-1

Date Collected: 04/16/13 10:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 74.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Acenaphthylene	19	J	52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Anthracene	48		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[a]anthracene	220		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[a]pyrene	180		14	6.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[b]fluoranthene	260		16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[g,h,i]perylene	96		26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Benzo[k]fluoranthene	120		10	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Chrysene	220		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Dibenz(a,h)anthracene	76		26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Fluoranthene	420		26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Fluorene	5.9	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Indeno[1,2,3-cd]pyrene	140		26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
1-Methylnaphthalene	8.5	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
2-Methylnaphthalene	52	U	52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Naphthalene	24	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Phenanthrene	200		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Pyrene	340		26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/19/13 11:14	04/22/13 19:55	1

Client Sample ID: FM0013B-CS

Lab Sample ID: 680-89459-2

Date Collected: 04/16/13 10:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 71.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Acenaphthylene	8.7	J	56	7.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Anthracene	7.0	J	12	5.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[a]anthracene	71		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[a]pyrene	32		15	7.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[b]fluoranthene	92		17	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[g,h,i]perylene	43		28	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Benzo[k]fluoranthene	25		11	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Chrysene	43		13	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Dibenz(a,h)anthracene	28	U	28	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Fluoranthene	60		28	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Fluorene	28	U	28	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Indeno[1,2,3-cd]pyrene	110		28	10	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
1-Methylnaphthalene	12	J	56	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
2-Methylnaphthalene	47	J	56	10	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Naphthalene	25	J	56	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Phenanthrene	47		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Pyrene	71		28	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				04/19/13 11:14	04/22/13 20:13	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0015A-CS

Lab Sample ID: 680-89459-3

Date Collected: 04/16/13 10:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Acenaphthylene	22	J	53	6.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Anthracene	52		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[a]anthracene	290		11	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[a]pyrene	240		14	6.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[b]fluoranthene	330		16	8.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[g,h,i]perylene	200		27	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Benzo[k]fluoranthene	180		11	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Chrysene	290		12	6.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Dibenz(a,h)anthracene	100		27	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Fluoranthene	450		27	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Fluorene	19	J	27	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Indeno[1,2,3-cd]pyrene	200		27	9.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
1-Methylnaphthalene	190		53	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
2-Methylnaphthalene	430		53	9.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Naphthalene	540		53	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Phenanthrene	260		11	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1
Pyrene	370		27	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130	04/19/13 11:14	04/22/13 20:31	1

Client Sample ID: FM0015B-CS

Lab Sample ID: 680-89459-4

Date Collected: 04/16/13 10:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Acenaphthylene	10	J	51	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Anthracene	14		11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[a]anthracene	86		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[a]pyrene	84		13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[b]fluoranthene	160		16	7.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[g,h,i]perylene	78		26	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Benzo[k]fluoranthene	92		10	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Chrysene	110		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Dibenz(a,h)anthracene	26	U	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Fluoranthene	150		26	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Fluorene	11	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Indeno[1,2,3-cd]pyrene	110		26	9.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
1-Methylnaphthalene	47	J	51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
2-Methylnaphthalene	97		51	9.1	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Naphthalene	67		51	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Phenanthrene	77		10	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1
Pyrene	110		26	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		30 - 130	04/19/13 11:14	04/22/13 20:50	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0015C-GS

Lab Sample ID: 680-89459-5

Date Collected: 04/16/13 10:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 72.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Acenaphthylene	220	U	220	28	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Anthracene	46		46	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[a]anthracene	130		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[a]pyrene	140		58	29	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[b]fluoranthene	150		68	34	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[g,h,i]perylene	73 J		110	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Benzo[k]fluoranthene	29 J		44	20	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Chrysene	150		50	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Dibenz(a,h)anthracene	110	U	110	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Fluoranthene	110		110	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Fluorene	110	U	110	23	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Indeno[1,2,3-cd]pyrene	110	U	110	39	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
1-Methylnaphthalene	70 J		220	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
2-Methylnaphthalene	170 J		220	39	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Naphthalene	84 J		220	24	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Phenanthrene	170		44	22	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Pyrene	120		110	20	ug/Kg	☼	04/19/13 11:14	04/22/13 21:08	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		30 - 130				04/19/13 11:14	04/22/13 21:08	4

Client Sample ID: FM0337A-CS

Lab Sample ID: 680-89459-6

Date Collected: 04/16/13 08:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Acenaphthylene	16 J		50	6.2	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Anthracene	18		10	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[a]anthracene	85		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[a]pyrene	94		13	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[b]fluoranthene	120		15	7.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[g,h,i]perylene	70		25	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Benzo[k]fluoranthene	110		9.9	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Chrysene	110		11	5.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Dibenz(a,h)anthracene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Fluoranthene	170		25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Indeno[1,2,3-cd]pyrene	110		25	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
1-Methylnaphthalene	17 J		50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
2-Methylnaphthalene	50		50	8.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Naphthalene	31 J		50	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Phenanthrene	78		9.9	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Pyrene	150		25	4.6	ug/Kg	☼	04/19/13 11:14	04/22/13 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130				04/19/13 11:14	04/22/13 21:26	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0337B-CS

Lab Sample ID: 680-89459-7

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Acenaphthylene	9.7	J	49	6.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Anthracene	5.3	J	10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[a]anthracene	44		9.8	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[a]pyrene	60		13	6.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[b]fluoranthene	79		15	7.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[g,h,i]perylene	30		25	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Benzo[k]fluoranthene	41		9.8	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Chrysene	54		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Dibenz(a,h)anthracene	25	U	25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Fluoranthene	93		25	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Fluorene	10	J	25	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Indeno[1,2,3-cd]pyrene	91		25	8.7	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
1-Methylnaphthalene	14	J	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
2-Methylnaphthalene	36	J	49	8.7	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Naphthalene	10	J	49	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Phenanthrene	47		9.8	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1
Pyrene	57		25	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130	04/19/13 11:14	04/22/13 21:45	1

Client Sample ID: FM0337B-CSD

Lab Sample ID: 680-89459-8

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Acenaphthylene	52	U	52	6.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Anthracene	11	U	11	5.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[a]anthracene	61		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[a]pyrene	44		13	6.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[b]fluoranthene	90		16	7.9	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[g,h,i]perylene	53		26	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Benzo[k]fluoranthene	33		10	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Chrysene	48		12	5.8	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Dibenz(a,h)anthracene	26	U	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Fluoranthene	73		26	5.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Fluorene	11	J	26	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Indeno[1,2,3-cd]pyrene	26	U	26	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
1-Methylnaphthalene	52	U	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
2-Methylnaphthalene	52	U	52	9.2	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Naphthalene	9.4	J	52	5.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Phenanthrene	49		10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1
Pyrene	76		26	4.8	ug/Kg	☼	04/19/13 11:14	04/22/13 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63		30 - 130	04/19/13 11:14	04/22/13 22:03	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0342A-CS

Lab Sample ID: 680-89459-9

Date Collected: 04/16/13 09:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Acenaphthylene	10	J	49	6.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Anthracene	9.8	J	10	5.1	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[a]anthracene	40		9.7	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[a]pyrene	56		13	6.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[b]fluoranthene	88		15	7.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[g,h,i]perylene	49		24	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Benzo[k]fluoranthene	22		9.7	4.4	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Chrysene	52		11	5.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Dibenz(a,h)anthracene	24	U	24	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Fluoranthene	62		24	4.9	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Fluorene	11	J	24	5.0	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Indeno[1,2,3-cd]pyrene	100		24	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
1-Methylnaphthalene	14	J	49	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
2-Methylnaphthalene	42	J	49	8.6	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Naphthalene	6.3	J	49	5.3	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Phenanthrene	36		9.7	4.7	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Pyrene	56		24	4.5	ug/Kg	☼	04/19/13 11:14	04/22/13 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130				04/19/13 11:14	04/22/13 22:22	1

Client Sample ID: FM0342B-CS

Lab Sample ID: 680-89459-10

Date Collected: 04/16/13 09:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41	J	130	25	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Acenaphthylene	36	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Anthracene	4000		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[a]anthracene	430		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[a]pyrene	380		13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[b]fluoranthene	620		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[g,h,i]perylene	250		25	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Benzo[k]fluoranthene	200		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Chrysene	760		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Dibenz(a,h)anthracene	77		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Fluoranthene	780		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Fluorene	240		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Indeno[1,2,3-cd]pyrene	220		25	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
1-Methylnaphthalene	77		50	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
2-Methylnaphthalene	180		50	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Naphthalene	260		50	5.6	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Phenanthrene	800		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Pyrene	560		25	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	57		30 - 130				04/19/13 15:35	04/23/13 17:29	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1066A-CS-SP

Lab Sample ID: 680-89459-11

Date Collected: 04/16/13 11:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Acenaphthylene	34	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Anthracene	68		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[a]anthracene	210		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[a]pyrene	190		52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[b]fluoranthene	350		61	31	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[g,h,i]perylene	160		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Benzo[k]fluoranthene	110		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Chrysene	280		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Dibenz(a,h)anthracene	63	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Fluoranthene	260		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Indeno[1,2,3-cd]pyrene	120		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
1-Methylnaphthalene	170	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
2-Methylnaphthalene	200		200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Naphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Phenanthrene	250		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Pyrene	200		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 17:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	59		30 - 130				04/19/13 15:35	04/23/13 17:52	4

Client Sample ID: CV1066B-CS-SP

Lab Sample ID: 680-89459-12

Date Collected: 04/16/13 11:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Acenaphthylene	81	J	210	26	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Anthracene	84		43	22	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[a]anthracene	510	F	41	20	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[a]pyrene	780	F	53	27	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[b]fluoranthene	1200	F	63	31	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[g,h,i]perylene	670	F	100	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Benzo[k]fluoranthene	380		41	19	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Chrysene	660	F	46	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Dibenz(a,h)anthracene	190		100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Fluoranthene	420		100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Fluorene	100	U	100	21	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Indeno[1,2,3-cd]pyrene	580	F	100	37	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
1-Methylnaphthalene	240		210	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
2-Methylnaphthalene	260		210	37	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Naphthalene	170	J	210	23	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Phenanthrene	260		41	20	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Pyrene	410	F	100	19	ug/Kg	☼	04/23/13 14:49	04/24/13 17:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	39		30 - 130				04/23/13 14:49	04/24/13 17:40	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1225A-CS-SP

Lab Sample ID: 680-89459-13

Date Collected: 04/16/13 10:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Acenaphthylene	46	J	190	24	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Anthracene	62		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[a]anthracene	140		38	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[a]pyrene	120		50	25	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[b]fluoranthene	310		59	29	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[g,h,i]perylene	140		96	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Benzo[k]fluoranthene	93		38	17	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Chrysene	230		43	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Dibenz(a,h)anthracene	51	J	96	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Fluoranthene	150		96	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Fluorene	96	U	96	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Indeno[1,2,3-cd]pyrene	120		96	34	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
1-Methylnaphthalene	65	J	190	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Naphthalene	92	J	190	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Phenanthrene	120		38	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Pyrene	160		96	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:14	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				04/19/13 15:35	04/23/13 18:14	4

Client Sample ID: CV1282A-CS-SP

Lab Sample ID: 680-89459-14

Date Collected: 04/16/13 09:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Acenaphthylene	200	U	200	24	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Anthracene	41		41	21	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[a]anthracene	180		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[a]pyrene	160		51	25	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[b]fluoranthene	280		60	30	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[g,h,i]perylene	110		98	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Benzo[k]fluoranthene	89		39	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Chrysene	230		44	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Dibenz(a,h)anthracene	40	J	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Fluoranthene	290		98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Fluorene	98	U	98	20	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Indeno[1,2,3-cd]pyrene	95	J	98	35	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
1-Methylnaphthalene	68	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
2-Methylnaphthalene	72	J	200	35	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Naphthalene	56	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Phenanthrene	180		39	19	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Pyrene	210		98	18	ug/Kg	☼	04/19/13 15:35	04/23/13 18:37	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				04/19/13 15:35	04/23/13 18:37	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1282B-CS-SP

Lab Sample ID: 680-89459-15

Date Collected: 04/16/13 09:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Acenaphthylene	42	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Anthracene	120		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[a]anthracene	450		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[a]pyrene	390		52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[b]fluoranthene	720		61	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[g,h,i]perylene	260		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Benzo[k]fluoranthene	200		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Chrysene	530		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Dibenz(a,h)anthracene	97	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Fluoranthene	720		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Fluorene	36	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Indeno[1,2,3-cd]pyrene	240		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
1-Methylnaphthalene	120	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
2-Methylnaphthalene	150	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Naphthalene	120	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Phenanthrene	450		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Pyrene	510		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				04/19/13 15:35	04/23/13 19:00	4

Client Sample ID: CV1282C-CS-SP

Lab Sample ID: 680-89459-16

Date Collected: 04/16/13 09:55

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Acenaphthylene	54	J	200	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Anthracene	110		43	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[a]anthracene	350		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[a]pyrene	320		53	27	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[b]fluoranthene	650		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[g,h,i]perylene	240		100	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Benzo[k]fluoranthene	200		41	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Chrysene	540		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Dibenz(a,h)anthracene	89	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Fluoranthene	590		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Fluorene	34	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Indeno[1,2,3-cd]pyrene	220		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
1-Methylnaphthalene	90	J	200	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
2-Methylnaphthalene	100	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Naphthalene	91	J	200	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Phenanthrene	400		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Pyrene	450		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:22	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		30 - 130				04/19/13 15:35	04/23/13 19:22	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1282D-CS-SP

Lab Sample ID: 680-89459-17

Date Collected: 04/16/13 10:05

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	J	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Acenaphthylene	72	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Anthracene	250		42	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[a]anthracene	760		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[a]pyrene	710		53	26	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[b]fluoranthene	1300		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[g,h,i]perylene	440		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Benzo[k]fluoranthene	420		40	18	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Chrysene	920		45	23	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Dibenz(a,h)anthracene	160		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Fluoranthene	1300		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Fluorene	76	J	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Indeno[1,2,3-cd]pyrene	410		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
1-Methylnaphthalene	130	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
2-Methylnaphthalene	160	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Naphthalene	220		200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Phenanthrene	880		40	20	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Pyrene	940		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 19:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				04/19/13 15:35	04/23/13 19:45	4

Client Sample ID: CV1217A-CS

Lab Sample ID: 680-89459-18

Date Collected: 04/16/13 14:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Acenaphthylene	46	J	200	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Anthracene	97		43	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[a]anthracene	700		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[a]pyrene	970		53	26	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[b]fluoranthene	1600		62	31	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[g,h,i]perylene	650		100	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Benzo[k]fluoranthene	530		41	18	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Chrysene	870		46	23	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Dibenz(a,h)anthracene	220		100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Fluoranthene	760		100	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Fluorene	100	U	100	21	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Indeno[1,2,3-cd]pyrene	620		100	36	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
2-Methylnaphthalene	100	J	200	36	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Naphthalene	87	J	200	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Phenanthrene	290		41	20	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Pyrene	590		100	19	ug/Kg	☼	04/19/13 15:35	04/23/13 20:07	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	49		30 - 130				04/19/13 15:35	04/23/13 20:07	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1217B-CS

Lab Sample ID: 680-89459-19

Date Collected: 04/16/13 14:25

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 64.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	610	U	610	120	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Acenaphthylene	250	U	250	31	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Anthracene	39	J	52	26	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[a]anthracene	450		49	24	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[a]pyrene	620		64	32	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[b]fluoranthene	1200		75	37	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[g,h,i]perylene	540		120	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Benzo[k]fluoranthene	430		49	22	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Chrysene	630		55	28	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Dibenz(a,h)anthracene	180		120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Fluoranthene	480		120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Fluorene	120	U	120	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Indeno[1,2,3-cd]pyrene	480		120	44	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
1-Methylnaphthalene	53	J	250	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
2-Methylnaphthalene	68	J	250	44	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Naphthalene	93	J	250	27	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Phenanthrene	220		49	24	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Pyrene	420		120	23	ug/Kg	☼	04/19/13 15:35	04/23/13 20:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				04/19/13 15:35	04/23/13 20:30	4

Client Sample ID: CV1219A-CS

Lab Sample ID: 680-89459-20

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Acenaphthylene	7.6	J	50	6.3	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Anthracene	35		11	5.3	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[a]anthracene	550		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[a]pyrene	1200		13	6.6	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[b]fluoranthene	1700		15	7.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[g,h,i]perylene	780		25	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Benzo[k]fluoranthene	570		10	4.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Chrysene	700		11	5.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Dibenz(a,h)anthracene	240		25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Fluoranthene	420		25	5.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Fluorene	14	J	25	5.2	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Indeno[1,2,3-cd]pyrene	670		25	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
1-Methylnaphthalene	38	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
2-Methylnaphthalene	48	J	50	9.0	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Naphthalene	41	J	50	5.5	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Phenanthrene	170		10	4.9	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Pyrene	370		25	4.7	ug/Kg	☼	04/19/13 15:35	04/23/13 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130				04/19/13 15:35	04/23/13 20:52	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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

Lab Sample ID: MB 660-136637/1-A

Matrix: Solid

Analysis Batch: 136698

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluoranthene	19	U	19	3.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Fluorene	19	U	19	4.0	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Naphthalene	39	U	39	4.3	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/19/13 11:14	04/22/13 15:20	1
Pyrene	19	U	19	3.6	ug/Kg		04/19/13 11:14	04/22/13 15:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130	04/19/13 11:14	04/22/13 15:20	1

Lab Sample ID: LCS 660-136637/2-A

Matrix: Solid

Analysis Batch: 136698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	660	537		ug/Kg		81	39 - 130
Acenaphthylene	660	492		ug/Kg		74	38 - 130
Anthracene	660	528		ug/Kg		80	37 - 130
Benzo[a]anthracene	660	579		ug/Kg		88	40 - 130
Benzo[a]pyrene	660	446		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	660	556		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	660	468		ug/Kg		71	32 - 130
Benzo[k]fluoranthene	660	589		ug/Kg		89	32 - 130
Chrysene	660	465		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	660	553		ug/Kg		84	27 - 130
Fluoranthene	660	538		ug/Kg		81	40 - 130
Fluorene	660	534		ug/Kg		81	40 - 130
Indeno[1,2,3-cd]pyrene	660	400		ug/Kg		61	30 - 130
1-Methylnaphthalene	660	423		ug/Kg		64	31 - 130
2-Methylnaphthalene	660	435		ug/Kg		66	33 - 130
Naphthalene	660	472		ug/Kg		71	36 - 130
Phenanthrene	660	534		ug/Kg		81	42 - 130
Pyrene	660	479		ug/Kg		73	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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

Lab Sample ID: LCS 660-136637/2-A

Matrix: Solid

Analysis Batch: 136698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136637

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	74		30 - 130

Lab Sample ID: MB 660-136660/1-A

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Fluorene	20	U	20	4.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Naphthalene	40	U	40	4.4	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/19/13 15:35	04/23/13 15:37	1
Pyrene	20	U	20	3.7	ug/Kg		04/19/13 15:35	04/23/13 15:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130	04/19/13 15:35	04/23/13 15:37	1

Lab Sample ID: LCS 660-136660/2-A

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	653	327		ug/Kg		50	39 - 130
Acenaphthylene	653	342		ug/Kg		52	38 - 130
Anthracene	653	420		ug/Kg		64	37 - 130
Benzo[a]anthracene	653	459		ug/Kg		70	40 - 130
Benzo[a]pyrene	653	419		ug/Kg		64	49 - 130
Benzo[b]fluoranthene	653	469		ug/Kg		72	37 - 130
Benzo[g,h,i]perylene	653	529		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	653	444		ug/Kg		68	32 - 130
Chrysene	653	445		ug/Kg		68	41 - 130
Dibenz(a,h)anthracene	653	528		ug/Kg		81	27 - 130
Fluoranthene	653	453		ug/Kg		69	40 - 130
Fluorene	653	382		ug/Kg		59	40 - 130
Indeno[1,2,3-cd]pyrene	653	514		ug/Kg		79	30 - 130
1-Methylnaphthalene	653	279		ug/Kg		43	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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

Lab Sample ID: LCS 660-136660/2-A

Matrix: Solid

Analysis Batch: 136756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	653	272		ug/Kg		42	33 - 130
Naphthalene	653	245		ug/Kg		38	36 - 130
Phenanthrene	653	420		ug/Kg		64	42 - 130
Pyrene	653	445		ug/Kg		68	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	64		30 - 130

Lab Sample ID: MB 660-136752/1-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Dibenz[a,h]anthracene	20	U	20	4.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Fluorene	20	U	20	4.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Naphthalene	39	U	39	4.3	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		04/23/13 14:49	04/24/13 16:55	1
Pyrene	20	U	20	3.6	ug/Kg		04/23/13 14:49	04/24/13 16:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		30 - 130	04/23/13 14:49	04/24/13 16:55	1

Lab Sample ID: LCS 660-136752/2-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	657	486		ug/Kg		74	39 - 130
Acenaphthylene	657	507		ug/Kg		77	38 - 130
Anthracene	657	496		ug/Kg		75	37 - 130
Benzo[a]anthracene	657	547		ug/Kg		83	40 - 130
Benzo[a]pyrene	657	494		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	657	577		ug/Kg		88	37 - 130
Benzo[g,h,i]perylene	657	548		ug/Kg		83	32 - 130
Benzo[k]fluoranthene	657	542		ug/Kg		83	32 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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

Lab Sample ID: LCS 660-136752/2-A

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	657	513		ug/Kg		78	41 - 130
Dibenz(a,h)anthracene	657	574		ug/Kg		87	27 - 130
Fluoranthene	657	534		ug/Kg		81	40 - 130
Fluorene	657	528		ug/Kg		80	40 - 130
Indeno[1,2,3-cd]pyrene	657	535		ug/Kg		81	30 - 130
1-Methylnaphthalene	657	503		ug/Kg		77	31 - 130
2-Methylnaphthalene	657	498		ug/Kg		76	33 - 130
Naphthalene	657	478		ug/Kg		73	36 - 130
Phenanthrene	657	485		ug/Kg		74	42 - 130
Pyrene	657	518		ug/Kg		79	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

Lab Sample ID: 680-89459-12 MS

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1066B-CS-SP

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	510	U	857	437	J	ug/Kg	☼	51	39 - 130
Acenaphthylene	81	J	857	566		ug/Kg	☼	57	38 - 130
Anthracene	84		857	558		ug/Kg	☼	55	37 - 130
Benzo[a]anthracene	510	F	857	952		ug/Kg	☼	52	40 - 130
Benzo[a]pyrene	780	F	857	803	F	ug/Kg	☼	3	49 - 130
Benzo[b]fluoranthene	1200	F	857	1130	F	ug/Kg	☼	-12	37 - 130
Benzo[g,h,i]perylene	670	F	857	679	F	ug/Kg	☼	1	32 - 130
Benzo[k]fluoranthene	380		857	702		ug/Kg	☼	38	32 - 130
Chrysene	660	F	857	963	F	ug/Kg	☼	36	41 - 130
Dibenz(a,h)anthracene	190		857	544		ug/Kg	☼	41	27 - 130
Fluoranthene	420		857	886		ug/Kg	☼	55	40 - 130
Fluorene	100	U	857	477		ug/Kg	☼	56	40 - 130
Indeno[1,2,3-cd]pyrene	580	F	857	614	F	ug/Kg	☼	3	30 - 130
1-Methylnaphthalene	240		857	988		ug/Kg	☼	87	31 - 130
2-Methylnaphthalene	260		857	1010		ug/Kg	☼	88	33 - 130
Naphthalene	170	J	857	791		ug/Kg	☼	73	36 - 130
Phenanthrene	260		857	864		ug/Kg	☼	70	42 - 130
Pyrene	410	F	857	842		ug/Kg	☼	51	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	52		30 - 130

Lab Sample ID: 680-89459-12 MSD

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1066B-CS-SP

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	510	U	857	427	J	ug/Kg	☼	50	39 - 130	2	40
Acenaphthylene	81	J	857	518		ug/Kg	☼	51	38 - 130	9	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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

Lab Sample ID: 680-89459-12 MSD

Matrix: Solid

Analysis Batch: 136826

Client Sample ID: CV1066B-CS-SP

Prep Type: Total/NA

Prep Batch: 136752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	84		857	538		ug/Kg	✱	53	37 - 130	4	40
Benzo[a]anthracene	510	F	857	794	F	ug/Kg	✱	33	40 - 130	18	40
Benzo[a]pyrene	780	F	857	743	F	ug/Kg	✱	-4	49 - 130	8	40
Benzo[b]fluoranthene	1200	F	857	1020	F	ug/Kg	✱	-25	37 - 130	10	40
Benzo[g,h,i]perylene	670	F	857	561	F	ug/Kg	✱	-12	32 - 130	19	40
Benzo[k]fluoranthene	380		857	669		ug/Kg	✱	34	32 - 130	5	40
Chrysene	660	F	857	915	F	ug/Kg	✱	30	41 - 130	5	40
Dibenz(a,h)anthracene	190		857	474		ug/Kg	✱	33	27 - 130	14	40
Fluoranthene	420		857	832		ug/Kg	✱	49	40 - 130	6	40
Fluorene	100	U	857	456		ug/Kg	✱	53	40 - 130	5	40
Indeno[1,2,3-cd]pyrene	580	F	857	530	F	ug/Kg	✱	-6	30 - 130	15	40
1-Methylnaphthalene	240		857	745		ug/Kg	✱	59	31 - 130	28	40
2-Methylnaphthalene	260		857	735		ug/Kg	✱	56	33 - 130	32	40
Naphthalene	170	J	857	639		ug/Kg	✱	55	36 - 130	21	40
Phenanthrene	260		857	739		ug/Kg	✱	55	42 - 130	16	40
Pyrene	410	F	857	737	F	ug/Kg	✱	38	44 - 130	13	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	52		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

GC/MS Semi VOA

Prep Batch: 136637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-1	FM0013A-CS	Total/NA	Solid	3546	
680-89459-2	FM0013B-CS	Total/NA	Solid	3546	
680-89459-3	FM0015A-CS	Total/NA	Solid	3546	
680-89459-4	FM0015B-CS	Total/NA	Solid	3546	
680-89459-5	FM0015C-GS	Total/NA	Solid	3546	
680-89459-6	FM0337A-CS	Total/NA	Solid	3546	
680-89459-7	FM0337B-CS	Total/NA	Solid	3546	
680-89459-8	FM0337B-CSD	Total/NA	Solid	3546	
680-89459-9	FM0342A-CS	Total/NA	Solid	3546	
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136637/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-10	FM0342B-CS	Total/NA	Solid	3546	
680-89459-11	CV1066A-CS-SP	Total/NA	Solid	3546	
680-89459-13	CV1225A-CS-SP	Total/NA	Solid	3546	
680-89459-14	CV1282A-CS-SP	Total/NA	Solid	3546	
680-89459-15	CV1282B-CS-SP	Total/NA	Solid	3546	
680-89459-16	CV1282C-CS-SP	Total/NA	Solid	3546	
680-89459-17	CV1282D-CS-SP	Total/NA	Solid	3546	
680-89459-18	CV1217A-CS	Total/NA	Solid	3546	
680-89459-19	CV1217B-CS	Total/NA	Solid	3546	
680-89459-20	CV1219A-CS	Total/NA	Solid	3546	
LCS 660-136660/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136660/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-1	FM0013A-CS	Total/NA	Solid	8270C LL	136637
680-89459-2	FM0013B-CS	Total/NA	Solid	8270C LL	136637
680-89459-3	FM0015A-CS	Total/NA	Solid	8270C LL	136637
680-89459-4	FM0015B-CS	Total/NA	Solid	8270C LL	136637
680-89459-5	FM0015C-GS	Total/NA	Solid	8270C LL	136637
680-89459-6	FM0337A-CS	Total/NA	Solid	8270C LL	136637
680-89459-7	FM0337B-CS	Total/NA	Solid	8270C LL	136637
680-89459-8	FM0337B-CSD	Total/NA	Solid	8270C LL	136637
680-89459-9	FM0342A-CS	Total/NA	Solid	8270C LL	136637
LCS 660-136637/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136637
MB 660-136637/1-A	Method Blank	Total/NA	Solid	8270C LL	136637

Prep Batch: 136752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-12	CV1066B-CS-SP	Total/NA	Solid	3546	
680-89459-12 MS	CV1066B-CS-SP	Total/NA	Solid	3546	
680-89459-12 MSD	CV1066B-CS-SP	Total/NA	Solid	3546	
LCS 660-136752/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136752/1-A	Method Blank	Total/NA	Solid	3546	

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

GC/MS Semi VOA (Continued)

Analysis Batch: 136756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-10	FM0342B-CS	Total/NA	Solid	8270C LL	136660
680-89459-11	CV1066A-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-13	CV1225A-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-14	CV1282A-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-15	CV1282B-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-16	CV1282C-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-17	CV1282D-CS-SP	Total/NA	Solid	8270C LL	136660
680-89459-18	CV1217A-CS	Total/NA	Solid	8270C LL	136660
680-89459-19	CV1217B-CS	Total/NA	Solid	8270C LL	136660
680-89459-20	CV1219A-CS	Total/NA	Solid	8270C LL	136660
LCS 660-136660/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136660
MB 660-136660/1-A	Method Blank	Total/NA	Solid	8270C LL	136660

Analysis Batch: 136826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-12	CV1066B-CS-SP	Total/NA	Solid	8270C LL	136752
680-89459-12 MS	CV1066B-CS-SP	Total/NA	Solid	8270C LL	136752
680-89459-12 MSD	CV1066B-CS-SP	Total/NA	Solid	8270C LL	136752
LCS 660-136752/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136752
MB 660-136752/1-A	Method Blank	Total/NA	Solid	8270C LL	136752

General Chemistry

Analysis Batch: 136617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89459-1	FM0013A-CS	Total/NA	Solid	Moisture	
680-89459-2	FM0013B-CS	Total/NA	Solid	Moisture	
680-89459-3	FM0015A-CS	Total/NA	Solid	Moisture	
680-89459-4	FM0015B-CS	Total/NA	Solid	Moisture	
680-89459-5	FM0015C-GS	Total/NA	Solid	Moisture	
680-89459-6	FM0337A-CS	Total/NA	Solid	Moisture	
680-89459-7	FM0337B-CS	Total/NA	Solid	Moisture	
680-89459-8	FM0337B-CSD	Total/NA	Solid	Moisture	
680-89459-9	FM0342A-CS	Total/NA	Solid	Moisture	
680-89459-10	FM0342B-CS	Total/NA	Solid	Moisture	
680-89459-11	CV1066A-CS-SP	Total/NA	Solid	Moisture	
680-89459-12	CV1066B-CS-SP	Total/NA	Solid	Moisture	
680-89459-12 MS	CV1066B-CS-SP	Total/NA	Solid	Moisture	
680-89459-12 MSD	CV1066B-CS-SP	Total/NA	Solid	Moisture	
680-89459-13	CV1225A-CS-SP	Total/NA	Solid	Moisture	
680-89459-14	CV1282A-CS-SP	Total/NA	Solid	Moisture	
680-89459-15	CV1282B-CS-SP	Total/NA	Solid	Moisture	
680-89459-16	CV1282C-CS-SP	Total/NA	Solid	Moisture	
680-89459-17	CV1282D-CS-SP	Total/NA	Solid	Moisture	
680-89459-18	CV1217A-CS	Total/NA	Solid	Moisture	
680-89459-19	CV1217B-CS	Total/NA	Solid	Moisture	
680-89459-20	CV1219A-CS	Total/NA	Solid	Moisture	

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0013A-CS

Date Collected: 04/16/13 10:40

Date Received: 04/18/13 08:30

Lab Sample ID: 680-89459-1

Matrix: Solid

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 19:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0013B-CS

Date Collected: 04/16/13 10:50

Date Received: 04/18/13 08:30

Lab Sample ID: 680-89459-2

Matrix: Solid

Percent Solids: 71.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 20:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0015A-CS

Date Collected: 04/16/13 10:00

Date Received: 04/18/13 08:30

Lab Sample ID: 680-89459-3

Matrix: Solid

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 20:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0015B-CS

Date Collected: 04/16/13 10:10

Date Received: 04/18/13 08:30

Lab Sample ID: 680-89459-4

Matrix: Solid

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 20:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0015C-GS

Date Collected: 04/16/13 10:20

Date Received: 04/18/13 08:30

Lab Sample ID: 680-89459-5

Matrix: Solid

Percent Solids: 72.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136698	04/22/13 21:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: FM0337A-CS

Lab Sample ID: 680-89459-6

Date Collected: 04/16/13 08:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 21:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0337B-CS

Lab Sample ID: 680-89459-7

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 21:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0337B-CSD

Lab Sample ID: 680-89459-8

Date Collected: 04/16/13 09:00

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 22:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0342A-CS

Lab Sample ID: 680-89459-9

Date Collected: 04/16/13 09:10

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136637	04/19/13 11:14	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136698	04/22/13 22:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: FM0342B-CS

Lab Sample ID: 680-89459-10

Date Collected: 04/16/13 09:20

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/23/13 17:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1066A-CS-SP

Lab Sample ID: 680-89459-11

Date Collected: 04/16/13 11:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 17:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1066B-CS-SP

Lab Sample ID: 680-89459-12

Date Collected: 04/16/13 11:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136752	04/23/13 14:49	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136826	04/24/13 17:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1225A-CS-SP

Lab Sample ID: 680-89459-13

Date Collected: 04/16/13 10:45

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 18:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1282A-CS-SP

Lab Sample ID: 680-89459-14

Date Collected: 04/16/13 09:30

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 18:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1282B-CS-SP

Lab Sample ID: 680-89459-15

Date Collected: 04/16/13 09:40

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 19:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

Client Sample ID: CV1282C-CS-SP

Lab Sample ID: 680-89459-16

Date Collected: 04/16/13 09:55

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 19:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1282D-CS-SP

Lab Sample ID: 680-89459-17

Date Collected: 04/16/13 10:05

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 19:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1217A-CS

Lab Sample ID: 680-89459-18

Date Collected: 04/16/13 14:15

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 20:07	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1217B-CS

Lab Sample ID: 680-89459-19

Date Collected: 04/16/13 14:25

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136756	04/23/13 20:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	AG	TAL TAM

Client Sample ID: CV1219A-CS

Lab Sample ID: 680-89459-20

Date Collected: 04/16/13 13:50

Matrix: Solid

Date Received: 04/18/13 08:30

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136660	04/19/13 15:35	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	136756	04/23/13 20:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136617	04/19/13 06:58	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 59210

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testam
Phone: (912) 354-785
Fax: (912) 352-0165

Loc: 680
89459

☒ Alternate Laboratory Name/Location
Test Am Tampa

Phone:
Fax:

LC

PROJECT REFERENCE <i>35m Ave Removal</i>		PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE <i>1</i> OF <i>3</i>			
(b) (6)				COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY ☐ DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ <i>10 calendar day TAT</i> DATE DUE _____ NUMBER OF COOLERS SUBMITTED PER SHIPMENT:									
COMPANY CONTRACTING THIS WORK (if applicable)				PRESERVATIVE														
SAMPLE		SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME																	
<i>4-16-13</i>	<i>1040</i>	<i>FM0013A-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1050</i>	<i>FM0013B-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1000</i>	<i>FM0015A-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1010</i>	<i>FM0015B-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1020</i>	<i>FM0015C-GS</i>			<i>G</i>	<i>X</i>			<i>X</i>									
	<i>0845</i>	<i>FM0337A-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>0900</i>	<i>FM0337B-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>0900</i>	<i>FM0337B-CSD</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>0910</i>	<i>FM0342A-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>0920</i>	<i>FM0342B-CS</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1115</i>	<i>CV1066A-CS-SP</i>			<i>C</i>	<i>X</i>			<i>X</i>									
	<i>1130</i>	<i>CV1066B-CS-SP</i>			<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>								
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME							
<i>[Signature]</i>		<i>4-17-13</i>	<i>1000</i>	<i>[Signature]</i>		<i>4/18/13</i>	<i>1717</i>											
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME							
<i>[Signature]</i>		<i>4-18-13</i>	<i>0830</i>															
LABORATORY USE ONLY																		
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS											
<i>[Signature]</i>		<i>04/19/13</i>	<i>0745</i>	YES ☐ NO ☐		<i>680-89459</i>	<i>1.8 CV-07 1.9C</i>											

680-89459 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise



Serial Number 64607

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

☐ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

☒ Alternate Laboratory Name/Location
Test Am. Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave. Removal		PROJECT NO. 2005198-1356		PROJECT LOCATION (STATE) FL		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, ...)		STANDARD REPORT DELIVERY ☐ DATE DUE _____ EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ DATE DUE _____									
COMPANY CONTRACTING THIS WORK (if applicable)						NUMBER OF CONTAINERS SUBMITTED										REMARKS									
SAMPLE		SAMPLE IDENTIFICATION																							
DATE	TIME																								
4-16-13	1045	CV1225A-CS-SP				C	X					X													
	0930	CV1282A-CS-SP				C	X					X													
	0940	CV1282B-CS-SP				C	X					X													
	0955	CV1282C-CS-SP				C	X					X	X												
	1005	CV1282D-CS-SP				C	X					X													
	1415	CV1217A-CS				C	X					X													
	1425	CV1217B-CS				C	X					X													
	1350	CV1219A-CS				C	X					X													
	1350	CV1219A-CSD				C	X					X													
	1400	CV1219B-CS				C	X					X													
	1310	CV1344A-CS				C	X					X													
	1310	CV1344A-CSD				C	X					X													
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME										
<i>[Signature]</i>		4-17-13	1000	<i>[Signature]</i>		4-18-13	1710	<i>[Signature]</i>				<i>[Signature]</i>													
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME										
<i>[Signature]</i>		4-18-13	0830	<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>													
LABORATORY USE ONLY																									
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT		CUSTODY SEAL NO.		SAVANNAH LOG NO.		LABORATORY REMARKS															
				YES ☐ NO ☐						18 CV-07															

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

SDG Number: 68089459-1

Login Number: 89459

List Number: 1

Creator: Daughtry, Beth

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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89459-1

SDG Number: 68089459-1

Login Number: 89459

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/18/13 04:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-89459-1
SDG: 68089459-1

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
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
Georgia	State Program	4	905	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: 680-89459-1
SDG: 68089459-1

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
USDA	Federal		P330-11-00177	04-20-14