REDACTED

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-89513-1
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	04/18/2013
Reviewer:	Karen Marie Trujillo, URS Group	Date:	05/09/2013
Concurrence[2]:	Nicole Lancaster, URS Group	Date:	05/16/2013

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?	✓			CV1176A-CSD (680-89513-4) is a field duplicate of CV1176ACS (680-89513-3).	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to **Attachment B** (Field Duplicate Evaluation)	
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: 04/24/2013 • ICV: 04/24/13 @ 16:06 • Instrument ID: BSMD5973 • Initial Calibration: 04/04/2013 • ICV: 04/04/13 @ 16:27 • CCV: 04/24/13 @ 12:46 • CCV: 04/25/13 @ 12:21	
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o 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, 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: 680-89513-1, -19, & -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 o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected 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 >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 136774: 680-89513-1 (CV0909A-GS), MS/MSD • Prep Batch 136731: 680-89421-1 (CV1001A-CS), MS/MSD. Lab sample 680-89421-1 is a project-specific sample (CV1001A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89421-1. • Prep Batch 136752: 680-89459-22 (CV1219B-CS), MS/MSD. Lab sample 680-89459-22 is a project-specific sample (CV1219B-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89459-2.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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					
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • 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 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	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	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 *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (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: 680-89513-1
SDG: 68089513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89513-1	CV0909A-GS	Solid	04/18/13 10:10	04/19/13 08:50
680-89513-2	CV0909B-GS	Solid	04/18/13 10:20	04/19/13 08:50
680-89513-3	CV1176A-CS	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-4	CV1176A-CSD	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-5	CV1176B-CS	Solid	04/18/13 09:40	04/19/13 08:50
680-89513-6	HP0063A-CS-SP	Solid	04/18/13 10:05	04/19/13 08:50
680-89513-7	HP0063B-CS-SP	Solid	04/18/13 10:20	04/19/13 08:50
680-89513-8	HP0064A-CS-SP	Solid	04/18/13 09:15	04/19/13 08:50
680-89513-9	HP0064B-CS-SP	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-10	CV0788A-CS	Solid	04/18/13 14:15	04/19/13 08:50
680-89513-11	CV0788B-CS	Solid	04/18/13 14:20	04/19/13 08:50
680-89513-12	CV1150A-CS	Solid	04/18/13 13:30	04/19/13 08:50
680-89513-13	CV1150B-CS	Solid	04/18/13 13:35	04/19/13 08:50
680-89513-14	CV1332A-CS	Solid	04/18/13 12:15	04/19/13 08:50
680-89513-15	CV1332B-CS	Solid	04/18/13 12:25	04/19/13 08:50
680-89513-16	CV1334A-CS	Solid	04/18/13 12:45	04/19/13 08:50
680-89513-17	CV1334B-CS	Solid	04/18/13 13:00	04/19/13 08:50
680-89513-18	CV0998A-CS	Solid	04/18/13 13:50	04/19/13 08:50
680-89513-19	CV1087A-CS	Solid	04/18/13 13:10	04/19/13 08:50
680-89513-20	CV1087B-CS	Solid	04/18/13 13:20	04/19/13 08:50

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1176A-CS 680-89513-3		RL	CV1176A-CSD 680-89513-4		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		U	120	26	J	120	µg/kg	600	NA	26	240	None, absolute difference ≤ 2x Avg RL
Anthracene	31		10	35		10	µg/kg	50	NA	4	20	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	88		9.7	67		9.9	µg/kg	49	**27**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	83		13	78		13	µg/kg	65	6	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	170		15	120		15	µg/kg	75	**34**	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	81		24	70		25	µg/kg	122.5	NA	11	49	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	76		9.7	66		9.9	µg/kg	49	14	NA	NA	None, RPD ≤ 50%
Chrysene	130		11	110		11	µg/kg	55	17	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	25		24	24	J	25	µg/kg	122.5	NA	1	49	None, absolute difference ≤ 2x Avg RL
Fluoranthene	130		24	98		25	µg/kg	122.5	NA	32	49	None, absolute difference ≤ 2x Avg RL
Fluorene	7.5	J	24		U	25	µg/kg	122.5	NA	7.5	49	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	110		24	78		25	µg/kg	122.5	NA	32	49	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	66		49	45	J	49	µg/kg	245	NA	21	98	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	120		49	71		49	µg/kg	245	NA	49	98	None, absolute difference ≤ 2x Avg RL
Naphthalene	72		49	31	J	49	µg/kg	245	NA	41	98	None, absolute difference ≤ 2x Avg RL
Phenanthrene	100		9.7	94		9.9	µg/kg	49	6	NA	NA	None, RPD ≤ 50%
Pyrene	120		24	77		25	µg/kg	122.5	NA	43	49	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram
U - Not detected
J - Estimated value
UJ - Not detected and the limit is estimated
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

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

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-89513-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89513-1

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 04/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0909A-GS (680-89513-1), CV0909B-GS (680-89513-2), CV1176A-CS (680-89513-3), CV1176A-CSD (680-89513-4), CV1176B-CS (680-89513-5), HP0063A-CS-SP (680-89513-6), HP0063B-CS-SP (680-89513-7), HP0064A-CS-SP (680-89513-8), HP0064B-CS-SP (680-89513-9), CV0788A-CS (680-89513-10), CV0788B-CS (680-89513-11), CV1150A-CS (680-89513-12), CV1150B-CS (680-89513-13), CV1332A-CS (680-89513-14), CV1332B-CS (680-89513-15), CV1334A-CS (680-89513-16), CV1334B-CS (680-89513-17), CV0998A-CS (680-89513-18), CV1087A-CS (680-89513-19) and CV1087B-CS (680-89513-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/23/2013 and 04/24/2013 and analyzed on 04/24/2013 and 04/25/2013.

Samples CV0909A-GS (680-89513-1)[4X], CV0909B-GS (680-89513-2)[4X], CV1087A-CS (680-89513-19)[4X] and CV1087B-CS (680-89513-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene and Phenanthrene recovered outside the recovery criteria for the MSD of sample 680-89421-1 in batch 660-136792.

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 ID: CV0909A-GS

Lab Sample ID: 680-89513-1

Date Collected: 04/18/13 10:10
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Anthracene	**59**		45	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[a]anthracene	**310**		43	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[a]pyrene	**250**	J	56	28	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[b]fluoranthene	**430**		65	33	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[g,h,i]perylene	**190**		110	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[k]fluoranthene	**130**		43	19	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Chrysene	**380**		48	24	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Dibenz(a,h)anthracene	**64**	J	110	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Fluoranthene	**550**		110	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Fluorene	110	U	110	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Indeno[1,2,3-cd]pyrene	**160**		110	38	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
1-Methylnaphthalene	**200**	J	210	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
2-Methylnaphthalene	**250**		210	38	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Naphthalene	**160**	J	210	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Phenanthrene	**360**		43	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Pyrene	**440**		110	20	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/24/13 09:50*	*04/25/13 15:48*	*4*

Client Sample ID: CV0909B-GS

Lab Sample ID: 680-89513-2

Date Collected: 04/18/13 10:20
Matrix: Solid
Date Received: 04/19/13 08:50
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	560	U	560	110	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Acenaphthylene	230	U	230	28	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Anthracene	**270**		47	24	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[a]anthracene	**900**		45	22	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[a]pyrene	**680**		59	29	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[b]fluoranthene	**920**		69	34	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[g,h,i]perylene	**490**		110	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[k]fluoranthene	**380**		45	20	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Chrysene	**840**		51	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Dibenz(a,h)anthracene	**76**	J	110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Fluoranthene	**1500**		110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Fluorene	**89**	J	110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Indeno[1,2,3-cd]pyrene	**600**		110	40	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
1-Methylnaphthalene	**280**		230	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
2-Methylnaphthalene	**580**		230	40	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Naphthalene	**370**		230	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Phenanthrene	**1400**		45	22	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Pyrene	**1300**		110	21	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/23/13 10:36*	*04/24/13 18:47*	*4*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1176A-CS

Lab Sample ID: 680-89513-3
Date Collected: 04/18/13 09:30
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Anthracene	**31**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[a]anthracene	**88**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[a]pyrene	**83**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[b]fluoranthene	**170**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[g,h,i]perylene	**81**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[k]fluoranthene	**76**		9.7	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Chrysene	**130**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Dibenz(a,h)anthracene	**25**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Fluoranthene	**130**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Fluorene	**7.5**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Indeno[1,2,3-cd]pyrene	**110**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
1-Methylnaphthalene	**66**		49	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
2-Methylnaphthalene	**120**		49	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Naphthalene	**72**		49	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Phenanthrene	**100**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Pyrene	**120**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:05*	*1*

Client Sample ID: CV1176A-CSD

Lab Sample ID: 680-89513-4
Date Collected: 04/18/13 09:30
Matrix: Solid
Date Received: 04/19/13 08:50
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	**26**	**J**	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Acenaphthylene	49	U	49	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Anthracene	**35**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[a]anthracene	**67**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[a]pyrene	**78**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[b]fluoranthene	**120**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[g,h,i]perylene	**70**		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[k]fluoranthene	**66**		9.9	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Chrysene	**110**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Dibenz(a,h)anthracene	**24**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Fluoranthene	**98**		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Indeno[1,2,3-cd]pyrene	**78**		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
1-Methylnaphthalene	**45**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
2-Methylnaphthalene	**71**		49	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Naphthalene	**31**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Phenanthrene	**94**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Pyrene	**77**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:24*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1176B-CS

Lab Sample ID: 680-89513-5
Date Collected: 04/18/13 09:40
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 72.1

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	☼	04/23/13 10:36	04/24/13 19:42	1
Acenaphthylene	56	U	56	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Anthracene	**57**		12	5.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[a]anthracene	**160**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[a]pyrene	**120**		14	7.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[b]fluoranthene	**190**		17	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[g,h,i]perylene	**160**		28	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[k]fluoranthene	**200**		11	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Chrysene	**210**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Dibenz(a,h)anthracene	**54**		28	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Fluoranthene	**160**		28	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Fluorene	**21**	**J**	28	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Indeno[1,2,3-cd]pyrene	**130**		28	9.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
1-Methylnaphthalene	**330**		56	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
2-Methylnaphthalene	**240**		56	9.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Naphthalene	**160**		56	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Phenanthrene	**430**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Pyrene	**200**		28	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:42*	*1*

Client Sample ID: HP0063A-CS-SP

Lab Sample ID: 680-89513-6
Date Collected: 04/18/13 10:05
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 87.1

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	23	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Acenaphthylene	46	U	46	5.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Anthracene	9.7	U	9.7	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[a]anthracene	**80**		9.2	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[a]pyrene	**80**		12	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[b]fluoranthene	**130**		14	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[g,h,i]perylene	**66**		23	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[k]fluoranthene	**46**		9.2	4.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Chrysene	**80**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Dibenz(a,h)anthracene	**26**		23	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Fluoranthene	**120**		23	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Fluorene	23	U	23	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Indeno[1,2,3-cd]pyrene	**96**		23	8.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
1-Methylnaphthalene	**50**		46	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
2-Methylnaphthalene	**85**		46	8.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Naphthalene	**40**	**J**	46	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Phenanthrene	**96**		9.2	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Pyrene	**96**		23	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:00*	*1*

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

Client Sample ID: HP0063B-CS-SP

Lab Sample ID: 680-89513-7

Date Collected: 04/18/13 10:20
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Anthracene	**49**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[a]anthracene	**18**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[a]pyrene	**61**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[b]fluoranthene	**62**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[g,h,i]perylene	**84**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[k]fluoranthene	**21**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Chrysene	**83**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Dibenz(a,h)anthracene	**9.1**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Fluoranthene	**72**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Fluorene	**11**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Indeno[1,2,3-cd]pyrene	**90**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
1-Methylnaphthalene	**59**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
2-Methylnaphthalene	**170**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Naphthalene	**73**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Phenanthrene	**240**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Pyrene	**51**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:19*	*1*

Client Sample ID: HP0064A-CS-SP

Lab Sample ID: 680-89513-8

Date Collected: 04/18/13 09:15
Matrix: Solid
Date Received: 04/19/13 08:50
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	130	U	130	25	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Acenaphthylene	50	U	50	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Anthracene	**47**		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[a]anthracene	**75**		10	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[a]pyrene	**83**		13	6.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[b]fluoranthene	**100**		15	7.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[g,h,i]perylene	**79**		25	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[k]fluoranthene	**49**		10	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Chrysene	**110**		11	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Dibenz(a,h)anthracene	**41**		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Fluoranthene	**90**		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Fluorene	**5.9**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
1-Methylnaphthalene	**49**	**J**	50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
2-Methylnaphthalene	**120**		50	8.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Naphthalene	**90**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Phenanthrene	**150**		10	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Pyrene	**100**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:37*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: HP0064B-CS-SP

Lab Sample ID: 680-89513-9

Date Collected: 04/18/13 09:30
Date Received: 04/19/13 08:50

Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Anthracene	**44**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[a]anthracene	**120**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[a]pyrene	**130**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[b]fluoranthene	**200**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[g,h,i]perylene	**99**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[k]fluoranthene	**81**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Chrysene	**120**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Dibenz(a,h)anthracene	**29**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Fluoranthene	**230**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Fluorene	**14**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
1-Methylnaphthalene	**60**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
2-Methylnaphthalene	**90**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Naphthalene	**52**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Phenanthrene	**190**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Pyrene	**190**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:55*	*1*

Client Sample ID: CV0788A-CS

Lab Sample ID: 680-89513-10

Date Collected: 04/18/13 14:15
Date Received: 04/19/13 08:50

Matrix: Solid
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Anthracene	**28**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[b]fluoranthene	**160**		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[g,h,i]perylene	**150**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[k]fluoranthene	**81**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Dibenz(a,h)anthracene	**29**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Fluoranthene	**140**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Fluorene	**27**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
1-Methylnaphthalene	**92**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
2-Methylnaphthalene	**140**		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Naphthalene	**79**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Phenanthrene	**150**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Pyrene	**170**		24	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:14*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV0788B-CS

Lab Sample ID: 680-89513-11

Date Collected: 04/18/13 14:20
Matrix: Solid
Date Received: 04/19/13 08:50
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	120	U	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Anthracene	**50**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[a]anthracene	**140**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[a]pyrene	**120**		13	6.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[b]fluoranthene	**220**		15	7.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[g,h,i]perylene	**99**		25	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[k]fluoranthene	**120**		9.9	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Chrysene	**180**		11	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Dibenz(a,h)anthracene	**18**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Fluoranthene	**190**		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Fluorene	**20**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Indeno[1,2,3-cd]pyrene	**120**		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
1-Methylnaphthalene	**78**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
2-Methylnaphthalene	**170**		50	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Naphthalene	**110**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Pyrene	**190**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:32*	*1*

Client Sample ID: CV1150A-CS

Lab Sample ID: 680-89513-12

Date Collected: 04/18/13 13:30
Matrix: Solid
Date Received: 04/19/13 08:50
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	130	U	130	25	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Acenaphthylene	51	U	51	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Anthracene	**41**		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[a]anthracene	**140**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[a]pyrene	**120**		13	6.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[b]fluoranthene	**190**		16	7.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[g,h,i]perylene	**110**		25	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[k]fluoranthene	**76**		10	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Chrysene	**150**		11	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Dibenz(a,h)anthracene	**36**		25	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Fluoranthene	**190**		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Fluorene	**16**	**J**	25	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Indeno[1,2,3-cd]pyrene	**140**		25	9.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
1-Methylnaphthalene	**36**	**J**	51	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
2-Methylnaphthalene	**100**		51	9.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Naphthalene	**52**		51	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Phenanthrene	**150**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Pyrene	**190**		25	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:51*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1150B-CS

Lab Sample ID: 680-89513-13
Date Collected: 04/18/13 13:35
Matrix: Solid
Date Received: 04/19/13 08:50
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	☼	04/23/13 10:36	04/24/13 22:09	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Anthracene	**35**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[a]pyrene	**120**		12	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[b]fluoranthene	**170**		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[g,h,i]perylene	**120**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[k]fluoranthene	**95**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Dibenz(a,h)anthracene	**26**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Fluoranthene	**190**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Fluorene	**8.4**	**J**	24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
1-Methylnaphthalene	**48**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
2-Methylnaphthalene	**110**		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Naphthalene	**69**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Phenanthrene	**140**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Pyrene	**160**		24	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:09*	*1*

Client Sample ID: CV1332A-CS

Lab Sample ID: 680-89513-14
Date Collected: 04/18/13 12:15
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Acenaphthylene	48	U	48	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Anthracene	**32**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[a]anthracene	**73**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[a]pyrene	**79**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[b]fluoranthene	**110**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[g,h,i]perylene	**61**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[k]fluoranthene	**49**		9.7	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Chrysene	**89**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Dibenz(a,h)anthracene	24	U	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Fluoranthene	**98**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Fluorene	**13**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Indeno[1,2,3-cd]pyrene	**68**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
2-Methylnaphthalene	**84**		48	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Naphthalene	**27**	**J**	48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Phenanthrene	**83**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Pyrene	**95**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:27*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1332B-CS

Lab Sample ID: 680-89513-15
Date Collected: 04/18/13 12:25
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 83.4

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	☼	04/23/13 10:36	04/24/13 22:46	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Anthracene	**37**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[a]anthracene	**130**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[a]pyrene	**130**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[b]fluoranthene	**210**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[g,h,i]perylene	**94**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[k]fluoranthene	**87**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Dibenz(a,h)anthracene	**40**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Fluoranthene	**210**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Indeno[1,2,3-cd]pyrene	**120**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
1-Methylnaphthalene	**50**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
2-Methylnaphthalene	**100**		48	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Naphthalene	**89**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Phenanthrene	**140**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Pyrene	**150**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:46*	*1*

Client Sample ID: CV1334A-CS

Lab Sample ID: 680-89513-16
Date Collected: 04/18/13 12:45
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.9

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	☼	04/23/13 10:36	04/24/13 23:41	1
Acenaphthylene	**76**		49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Anthracene	**51**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[a]anthracene	**170**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[a]pyrene	**200**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[b]fluoranthene	**310**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[g,h,i]perylene	**180**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Chrysene	**180**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Dibenz(a,h)anthracene	**39**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Fluoranthene	**250**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Fluorene	**11**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Indeno[1,2,3-cd]pyrene	**170**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
1-Methylnaphthalene	**34**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
2-Methylnaphthalene	**71**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Naphthalene	**31**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Phenanthrene	**170**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Pyrene	**250**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:41*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1334B-CS

Lab Sample ID: 680-89513-17

Date Collected: 04/18/13 13:00
Date Received: 04/19/13 08:50

Matrix: Solid
Percent Solids: 79.3

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	☼	04/23/13 10:36	04/24/13 23:04	1
Acenaphthylene	200		49	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Anthracene	73		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[a]anthracene	460		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[a]pyrene	440		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[b]fluoranthene	600		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[g,h,i]perylene	350		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[k]fluoranthene	360		9.9	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Chrysene	560		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Dibenz(a,h)anthracene	89		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Fluoranthene	750		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Fluorene	27		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Indeno[1,2,3-cd]pyrene	290		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
1-Methylnaphthalene	75		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
2-Methylnaphthalene	88		49	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Naphthalene	65		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Phenanthrene	260		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Pyrene	750		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:04*	*1*

Client Sample ID: CV0998A-CS

Lab Sample ID: 680-89513-18

Date Collected: 04/18/13 13:50
Date Received: 04/19/13 08:50

Matrix: Solid
Percent Solids: 82.2

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	☼	04/23/13 10:36	04/24/13 23:23	1
Acenaphthylene	71		48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Anthracene	130		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[a]anthracene	730		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[a]pyrene	780		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[b]fluoranthene	1300		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[g,h,i]perylene	650		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[k]fluoranthene	480		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Chrysene	630		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Dibenz(a,h)anthracene	240		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Fluoranthene	950		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Fluorene	41		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Indeno[1,2,3-cd]pyrene	440		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
1-Methylnaphthalene	93		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
2-Methylnaphthalene	150		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Naphthalene	110		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Phenanthrene	550		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Pyrene	860		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:23*	*1*

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

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1087A-CS

Lab Sample ID: 680-89513-19
Date Collected: 04/18/13 13:10
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Acenaphthylene	590		180	23	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Anthracene	580		39	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[a]anthracene	600		37	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[a]pyrene	660	J	48	24	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[b]fluoranthene	1200		56	28	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[g,h,i]perylene	390		92	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[k]fluoranthene	470		37	17	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Chrysene	840		42	21	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Dibenz(a,h)anthracene	140		92	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Fluoranthene	1400		92	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Fluorene	63	J	92	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Indeno[1,2,3-cd]pyrene	330		92	33	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
1-Methylnaphthalene	170	J	180	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
2-Methylnaphthalene	140	J	180	33	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Naphthalene	140	J	180	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Phenanthrene	1100		37	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Pyrene	1100		92	17	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*04/23/13 14:49*	*04/24/13 19:55*	*4*

Client Sample ID: CV1087B-CS

Lab Sample ID: 680-89513-20
Date Collected: 04/18/13 13:20
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Acenaphthylene	72	J	190	24	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Anthracene	80		40	20	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[a]anthracene	240		38	18	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[a]pyrene	210	J	49	24	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[b]fluoranthene	380		57	29	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[g,h,i]perylene	120		94	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[k]fluoranthene	140		38	17	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Chrysene	300		42	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Dibenz(a,h)anthracene	45	J	94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Fluoranthene	390		94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Fluorene	19	J	94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Indeno[1,2,3-cd]pyrene	110		94	33	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
1-Methylnaphthalene	74	J	190	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
2-Methylnaphthalene	71	J	190	33	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Naphthalene	53	J	190	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Phenanthrene	240		38	18	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Pyrene	320		94	17	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/23/13 14:49*	*04/24/13 20:18*	*4*

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

ANALYTICAL REPORT

Job Number: 680-89513-1

SDG Number: 68089513-1

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
4/30/2013 12:20 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
04/30/2013

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: 680-89513-1

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 04/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0909A-GS (680-89513-1), CV0909B-GS (680-89513-2), CV1176A-CS (680-89513-3), CV1176A-CSD (680-89513-4), CV1176B-CS (680-89513-5), HP0063A-CS-SP (680-89513-6), HP0063B-CS-SP (680-89513-7), HP0064A-CS-SP (680-89513-8), HP0064B-CS-SP (680-89513-9), CV0788A-CS (680-89513-10), CV0788B-CS (680-89513-11), CV1150A-CS (680-89513-12), CV1150B-CS (680-89513-13), CV1332A-CS (680-89513-14), CV1332B-CS (680-89513-15), CV1334A-CS (680-89513-16), CV1334B-CS (680-89513-17), CV0998A-CS (680-89513-18), CV1087A-CS (680-89513-19) and CV1087B-CS (680-89513-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/23/2013 and 04/24/2013 and analyzed on 04/24/2013 and 04/25/2013.

Samples CV0909A-GS (680-89513-1)[4X], CV0909B-GS (680-89513-2)[4X], CV1087A-CS (680-89513-19)[4X] and CV1087B-CS (680-89513-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene and Phenanthrene recovered outside the recovery criteria for the MSD of sample 680-89421-1 in batch 660-136792.

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: 680-89513-1
Sdg Number: 68089513-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89513-1	CV0909A-GS	Solid	04/18/2013 1010	04/19/2013 0850
680-89513-1MS	CV0909A-GS	Solid	04/18/2013 1010	04/19/2013 0850
680-89513-1MSD	CV0909A-GS	Solid	04/18/2013 1010	04/19/2013 0850
680-89513-2	CV0909B-GS	Solid	04/18/2013 1020	04/19/2013 0850
680-89513-3	CV1176A-CS	Solid	04/18/2013 0930	04/19/2013 0850
680-89513-4	CV1176A-CSD	Solid	04/18/2013 0930	04/19/2013 0850
680-89513-5	CV1176B-CS	Solid	04/18/2013 0940	04/19/2013 0850
680-89513-6	HP0063A-CS-SP	Solid	04/18/2013 1005	04/19/2013 0850
680-89513-7	HP0063B-CS-SP	Solid	04/18/2013 1020	04/19/2013 0850
680-89513-8	HP0064A-CS-SP	Solid	04/18/2013 0915	04/19/2013 0850
680-89513-9	HP0064B-CS-SP	Solid	04/18/2013 0930	04/19/2013 0850
680-89513-10	CV0788A-CS	Solid	04/18/2013 1415	04/19/2013 0850
680-89513-11	CV0788B-CS	Solid	04/18/2013 1420	04/19/2013 0850
680-89513-12	CV1150A-CS	Solid	04/18/2013 1330	04/19/2013 0850
680-89513-13	CV1150B-CS	Solid	04/18/2013 1335	04/19/2013 0850
680-89513-14	CV1332A-CS	Solid	04/18/2013 1215	04/19/2013 0850
680-89513-15	CV1332B-CS	Solid	04/18/2013 1225	04/19/2013 0850
680-89513-16	CV1334A-CS	Solid	04/18/2013 1245	04/19/2013 0850
680-89513-17	CV1334B-CS	Solid	04/18/2013 1300	04/19/2013 0850
680-89513-18	CV0998A-CS	Solid	04/18/2013 1350	04/19/2013 0850
680-89513-19	CV1087A-CS	Solid	04/18/2013 1310	04/19/2013 0850
680-89513-20	CV1087B-CS	Solid	04/18/2013 1320	04/19/2013 0850

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
Sdg Number: 68089513-1

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: 680-89513-1
Sdg Number: 68089513-1

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: 680-89513-1
Sdg Number: 68089513-1

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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
Sdg Number: 68089513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136731					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136731/1-A	Method Blank	T	Solid	3546	
680-89421-A-1-B MS	Matrix Spike	T	Solid	3546	
680-89421-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89513-2	CV0909B-GS	T	Solid	3546	
680-89513-3	CV1176A-CS	T	Solid	3546	
680-89513-4	CV1176A-CSD	T	Solid	3546	
680-89513-5	CV1176B-CS	T	Solid	3546	
680-89513-6	HP0063A-CS-SP	T	Solid	3546	
680-89513-7	HP0063B-CS-SP	T	Solid	3546	
680-89513-8	HP0064A-CS-SP	T	Solid	3546	
680-89513-9	HP0064B-CS-SP	T	Solid	3546	
680-89513-10	CV0788A-CS	T	Solid	3546	
680-89513-11	CV0788B-CS	T	Solid	3546	
680-89513-12	CV1150A-CS	T	Solid	3546	
680-89513-13	CV1150B-CS	T	Solid	3546	
680-89513-14	CV1332A-CS	T	Solid	3546	
680-89513-15	CV1332B-CS	T	Solid	3546	
680-89513-16	CV1334A-CS	T	Solid	3546	
680-89513-17	CV1334B-CS	T	Solid	3546	
680-89513-18	CV0998A-CS	T	Solid	3546	
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-A-22-B MS	Matrix Spike	T	Solid	3546	
680-89459-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89513-19	CV1087A-CS	T	Solid	3546	
680-89513-20	CV1087B-CS	T	Solid	3546	
Prep Batch: 660-136774					
LCS 660-136774/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136774/1-A	Method Blank	T	Solid	3546	
680-89513-1	CV0909A-GS	T	Solid	3546	
680-89513-1MS	Matrix Spike	T	Solid	3546	
680-89513-1MSD	Matrix Spike Duplicate	T	Solid	3546	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
Sdg Number: 68089513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-136792					
LCS 660-136731/2-A	Lab Control Sample	T	Solid	8270C LL	660-136731
MB 660-136731/1-A	Method Blank	T	Solid	8270C LL	660-136731
680-89421-A-1-B MS	Matrix Spike	T	Solid	8270C LL	660-136731
680-89421-A-1-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136731
680-89513-2	CV0909B-GS	T	Solid	8270C LL	660-136731
680-89513-3	CV1176A-CS	T	Solid	8270C LL	660-136731
680-89513-4	CV1176A-CSD	T	Solid	8270C LL	660-136731
680-89513-5	CV1176B-CS	T	Solid	8270C LL	660-136731
680-89513-6	HP0063A-CS-SP	T	Solid	8270C LL	660-136731
680-89513-7	HP0063B-CS-SP	T	Solid	8270C LL	660-136731
680-89513-8	HP0064A-CS-SP	T	Solid	8270C LL	660-136731
680-89513-9	HP0064B-CS-SP	T	Solid	8270C LL	660-136731
680-89513-10	CV0788A-CS	T	Solid	8270C LL	660-136731
680-89513-11	CV0788B-CS	T	Solid	8270C LL	660-136731
680-89513-12	CV1150A-CS	T	Solid	8270C LL	660-136731
680-89513-13	CV1150B-CS	T	Solid	8270C LL	660-136731
680-89513-14	CV1332A-CS	T	Solid	8270C LL	660-136731
680-89513-15	CV1332B-CS	T	Solid	8270C LL	660-136731
680-89513-16	CV1334A-CS	T	Solid	8270C LL	660-136731
680-89513-17	CV1334B-CS	T	Solid	8270C LL	660-136731
680-89513-18	CV0998A-CS	T	Solid	8270C LL	660-136731
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-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-136752
680-89459-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136752
680-89513-19	CV1087A-CS	T	Solid	8270C LL	660-136752
680-89513-20	CV1087B-CS	T	Solid	8270C LL	660-136752
Analysis Batch:660-136899					
LCS 660-136774/2-A	Lab Control Sample	T	Solid	8270C LL	660-136774
MB 660-136774/1-A	Method Blank	T	Solid	8270C LL	660-136774
680-89513-1	CV0909A-GS	T	Solid	8270C LL	660-136774
680-89513-1MS	Matrix Spike	T	Solid	8270C LL	660-136774
680-89513-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136774

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
Sdg Number: 68089513-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-136656					
680-89513-9	HP0064B-CS-SP	T	Solid	Moisture	
680-89513-10	CV0788A-CS	T	Solid	Moisture	
680-89513-11	CV0788B-CS	T	Solid	Moisture	
680-89513-12	CV1150A-CS	T	Solid	Moisture	
680-89513-13	CV1150B-CS	T	Solid	Moisture	
680-89513-14	CV1332A-CS	T	Solid	Moisture	
680-89513-15	CV1332B-CS	T	Solid	Moisture	
680-89513-16	CV1334A-CS	T	Solid	Moisture	
680-89513-17	CV1334B-CS	T	Solid	Moisture	
680-89513-18	CV0998A-CS	T	Solid	Moisture	
680-89513-19	CV1087A-CS	T	Solid	Moisture	
680-89513-20	CV1087B-CS	T	Solid	Moisture	
680-89513-A-23 MS	Matrix Spike	T	Solid	Moisture	
680-89513-A-23 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-136667					
680-89513-1	CV0909A-GS	T	Solid	Moisture	
680-89513-1MS	Matrix Spike	T	Solid	Moisture	
680-89513-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89513-2	CV0909B-GS	T	Solid	Moisture	
680-89513-3	CV1176A-CS	T	Solid	Moisture	
680-89513-4	CV1176A-CSD	T	Solid	Moisture	
680-89513-5	CV1176B-CS	T	Solid	Moisture	
680-89513-6	HP0063A-CS-SP	T	Solid	Moisture	
680-89513-7	HP0063B-CS-SP	T	Solid	Moisture	
680-89513-8	HP0064A-CS-SP	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: ICIS 660-136792/8 Client Sample ID:

Date Analyzed: 04/24/13 13:57 Lab File ID: 1CD24007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.84	Split Peak	cantins	04/24/13 16:00

Lab Sample ID: IC 660-136792/9 Client Sample ID:

Date Analyzed: 04/24/13 14:16 Lab File ID: 1CD24008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	5.82	Analyte not Identified by the Data System	cantins	04/24/13 16:05
Indeno[1,2,3-cd]pyrene	9.82	Baseline Event	cantins	04/24/13 16:07
Dibenz(a,h)anthracene	9.83	Baseline Event	cantins	04/24/13 16:07
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:07

Lab Sample ID: IC 660-136792/10 Client Sample ID:

Date Analyzed: 04/24/13 14:34 Lab File ID: 1CD24009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	5.06	Analyte not Identified by the Data System	cantins	04/24/13 16:14
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/24/13 16:14
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/24/13 16:14
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:14

Lab Sample ID: IC 660-136792/11 Client Sample ID:

Date Analyzed: 04/24/13 14:52 Lab File ID: 1CD24010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: IC 660-136792/12 Client Sample ID:

Date Analyzed: 04/24/13 15:11 Lab File ID: 1CD24011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/24/13 16:20

Lab Sample ID: IC 660-136792/13 Client Sample ID:

Date Analyzed: 04/24/13 15:29 Lab File ID: 1CD24012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:21

Lab Sample ID: IC 660-136792/14 Client Sample ID:

Date Analyzed: 04/24/13 15:47 Lab File ID: 1CD24013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/24/13 16:22

Lab Sample ID: ICV 660-136792/15 Client Sample ID:

Date Analyzed: 04/24/13 16:06 Lab File ID: 1CD24014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/24/13 16:35

Lab Sample ID: LCS 660-136731/2-A Client Sample ID:

Date Analyzed: 04/24/13 16:58 Lab File ID: 1CD24016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89421-A-1-B MS Client Sample ID:

Date Analyzed: 04/24/13 17:34 Lab File ID: 1CD24018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 11:33

Lab Sample ID: 680-89421-A-1-C MSD Client Sample ID:

Date Analyzed: 04/24/13 17:52 Lab File ID: 1CD24019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:34
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:33

Lab Sample ID: 680-89513-2 Client Sample ID: CV0909B-GS

Date Analyzed: 04/24/13 18:47 Lab File ID: 1CD24022.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	3.65	Baseline Event	cantins	04/25/13 11:42
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 11:43
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/25/13 11:44
Benzo[g,h,i]perylene	10.17	Baseline Event	cantins	04/25/13 11:43

Lab Sample ID: 680-89513-3 Client Sample ID: CV1176A-CS

Date Analyzed: 04/24/13 19:05 Lab File ID: 1CD24023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.40	Split Peak	cantins	04/25/13 11:46
Benzo[k]fluoranthene	8.42	Baseline Event	cantins	04/25/13 11:46
Indeno[1,2,3-cd]pyrene	9.82	Split Peak	cantins	04/25/13 11:47
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/25/13 11:47
Benzo[g,h,i]perylene	10.15	Baseline Event	cantins	04/25/13 11:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89513-4 Client Sample ID: CV1176A-CSD

Date Analyzed: 04/24/13 19:24 Lab File ID: 1CD24024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.40	Baseline Event	cantins	04/25/13 11:49
Benzo[k]fluoranthene	8.42	Baseline Event	cantins	04/25/13 11:49
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:49

Lab Sample ID: 680-89513-5 Client Sample ID: CV1176B-CS

Date Analyzed: 04/24/13 19:42 Lab File ID: 1CD24025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.40	Split Peak	cantins	04/25/13 11:51
Benzo[k]fluoranthene	8.41	Baseline Event	cantins	04/25/13 11:52
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 11:52
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/25/13 11:52
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 11:52

Lab Sample ID: 680-89513-6 Client Sample ID: HP0063A-CS-SP

Date Analyzed: 04/24/13 20:00 Lab File ID: 1CD24026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.41	Split Peak	cantins	04/25/13 11:54
Benzo[k]fluoranthene	8.43	Baseline Event	cantins	04/25/13 11:55
Indeno[1,2,3-cd]pyrene	9.82	Baseline Event	cantins	04/25/13 11:56

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89513-7 Client Sample ID: HP0063B-CS-SP

Date Analyzed: 04/24/13 20:19 Lab File ID: 1CD24027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.40	Baseline Event	cantins	04/25/13 12:22
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 12:24

Lab Sample ID: 680-89513-8 Client Sample ID: HP0064A-CS-SP

Date Analyzed: 04/24/13 20:37 Lab File ID: 1CD24028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.83	Baseline Event	cantins	04/25/13 12:26
Dibenz(a,h)anthracene	9.85	Baseline Event	cantins	04/25/13 12:26
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 12:26

Lab Sample ID: 680-89513-9 Client Sample ID: HP0064B-CS-SP

Date Analyzed: 04/24/13 20:55 Lab File ID: 1CD24029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.41	Split Peak	cantins	04/25/13 12:28
Benzo[k]fluoranthene	8.43	Baseline Event	cantins	04/25/13 12:28
Indeno[1,2,3-cd]pyrene	9.83	Split Peak	cantins	04/25/13 12:29
Benzo[g,h,i]perylene	10.16	Baseline Event	cantins	04/25/13 12:29

Lab Sample ID: 680-89513-10 Client Sample ID: CV0788A-CS

Date Analyzed: 04/24/13 21:14 Lab File ID: 1CD24030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.88	Split Peak	cantins	04/25/13 12:32
Dibenz(a,h)anthracene	9.90	Baseline Event	cantins	04/25/13 12:32
Benzo[g,h,i]perylene	10.22	Baseline Event	cantins	04/25/13 12:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89513-11 Client Sample ID: CV0788B-CS

Date Analyzed: 04/24/13 21:32 Lab File ID: 1CD24031.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	04/25/13 12:35
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/25/13 12:35
Indeno[1,2,3-cd]pyrene	9.89	Baseline Event	cantins	04/25/13 12:36

Lab Sample ID: 680-89513-12 Client Sample ID: CV1150A-CS

Date Analyzed: 04/24/13 21:51 Lab File ID: 1CD24032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.44	Split Peak	cantins	04/25/13 12:40
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/25/13 12:40
Indeno[1,2,3-cd]pyrene	9.89	Baseline Event	cantins	04/25/13 12:39
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/25/13 12:39
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/25/13 12:38

Lab Sample ID: 680-89513-13 Client Sample ID: CV1150B-CS

Date Analyzed: 04/24/13 22:09 Lab File ID: 1CD24033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	7.60	Analyte Misidentified by the Data System	cantins	04/25/13 12:47
Chrysene	7.63	Baseline Event	cantins	04/25/13 12:47
Indeno[1,2,3-cd]pyrene	9.89	Split Peak	cantins	04/25/13 12:48
Benzo[g,h,i]perylene	10.22	Baseline Event	cantins	04/25/13 12:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89513-14 Client Sample ID: CV1332A-CS

Date Analyzed: 04/24/13 22:27 Lab File ID: 1CD24034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.22	Baseline Event	cantins	04/25/13 12:52

Lab Sample ID: 680-89513-15 Client Sample ID: CV1332B-CS

Date Analyzed: 04/24/13 22:46 Lab File ID: 1CD24035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/25/13 12:54
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/25/13 12:53

Lab Sample ID: 680-89513-17 Client Sample ID: CV1334B-CS

Date Analyzed: 04/24/13 23:04 Lab File ID: 1CD24036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	7.60	Analyte Misidentified by the Data System	cantins	04/25/13 12:56
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/25/13 12:57
Benzo[k]fluoranthene	8.45	Baseline Event	cantins	04/25/13 12:57
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/25/13 12:58
Dibenz(a,h)anthracene	9.91	Baseline Event	cantins	04/25/13 12:58
Benzo[g,h,i]perylene	10.23	Baseline Event	cantins	04/25/13 12:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Analysis Batch Number: 136792

Lab Sample ID: 680-89513-18 Client Sample ID: CV0998A-CS

Date Analyzed: 04/24/13 23:23 Lab File ID: 1CD24037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	7.61	Analyte Misidentified by the Data System	cantins	04/25/13 13:00
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/25/13 13:00
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/25/13 13:01
Indeno[1,2,3-cd]pyrene	9.91	Split Peak	cantins	04/25/13 13:02
Dibenz(a,h)anthracene	9.92	Baseline Event	cantins	04/25/13 13:02
Benzo[g,h,i]perylene	10.25	Baseline Event	cantins	04/25/13 13:01

Lab Sample ID: 680-89513-16 Client Sample ID: CV1334A-CS

Date Analyzed: 04/24/13 23:41 Lab File ID: 1CD24038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	5.06	Baseline Event	cantins	04/25/13 13:04
Benzo[a]anthracene	7.60	Analyte Misidentified by the Data System	cantins	04/25/13 13:05
Benzo[b]fluoranthene	8.45	Split Peak	cantins	04/25/13 13:05
Benzo[k]fluoranthene	8.46	Baseline Event	cantins	04/25/13 13:05
Benzo[a]pyrene	8.73	Analyte Misidentified by the Data System	cantins	04/25/13 13:06
Indeno[1,2,3-cd]pyrene	9.90	Split Peak	cantins	04/25/13 13:06
Benzo[g,h,i]perylene	10.24	Baseline Event	cantins	04/25/13 13:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab 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.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Analysis Batch Number: 136164

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Analysis Batch Number: 136826

Lab 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-A-22-B MS Client Sample ID:

Date Analyzed: 04/24/13 19:10 Lab File ID: 1DD24020.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	04/25/13 13:14

Lab Sample ID: 680-89459-A-22-C MSD Client Sample ID:

Date Analyzed: 04/24/13 19:33 Lab File ID: 1DD24021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/25/13 13:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Analysis Batch Number: 136826

Lab Sample ID: 680-89513-19 Client Sample ID: CV1087A-CS

Date Analyzed: 04/24/13 19:55 Lab File ID: 1DD24022.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	04/25/13 13:15

Lab Sample ID: 680-89513-20 Client Sample ID: CV1087B-CS

Date Analyzed: 04/24/13 20:18 Lab File ID: 1DD24023.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 13:16
Dibenz(a,h)anthracene	14.73	Baseline Event	cantins	04/25/13 13:15

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Analysis Batch Number: 136899

Lab Sample ID: CCVIS 660-136899/3 Client Sample ID:

Date Analyzed: 04/25/13 12:21 Lab File ID: 1DD25003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.72	Split Peak	cantins	04/25/13 12:44

Lab Sample ID: LCS 660-136774/2-A Client Sample ID:

Date Analyzed: 04/25/13 15:26 Lab File ID: 1DD25006.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	04/26/13 15:47

Lab Sample ID: 680-89513-1 Client Sample ID: CV0909A-GS

Date Analyzed: 04/25/13 15:48 Lab File ID: 1DD25007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.68	Split Peak	cantins	04/26/13 15:48

Lab Sample ID: 680-89513-1 MS Client Sample ID: CV0909A-GS MS

Date Analyzed: 04/25/13 16:11 Lab File ID: 1DD25008.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	04/26/13 15:50

Lab Sample ID: 680-89513-1 MSD Client Sample ID: CV0909A-GS MSD

Date Analyzed: 04/25/13 16:33 Lab File ID: 1DD25009.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	04/26/13 15:51

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.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0909A-GS	680-89513-1	50
CV0909B-GS	680-89513-2	56
CV1176A-CS	680-89513-3	74
CV1176A-CSD	680-89513-4	55
CV1176B-CS	680-89513-5	52
HP0063A-CS-SP	680-89513-6	73
HP0063B-CS-SP	680-89513-7	40
HP0064A-CS-SP	680-89513-8	75
HP0064B-CS-SP	680-89513-9	66
CV0788A-CS	680-89513-10	49
CV0788B-CS	680-89513-11	60
CV1150A-CS	680-89513-12	68
CV1150B-CS	680-89513-13	82
CV1332A-CS	680-89513-14	57
CV1332B-CS	680-89513-15	72
CV1334A-CS	680-89513-16	55
CV1334B-CS	680-89513-17	74
CV0998A-CS	680-89513-18	58
CV1087A-CS	680-89513-19	40
CV1087B-CS	680-89513-20	69
	MB 660-136731/1-A	82
	MB 660-136752/1-A	62
	MB 660-136774/1-A	73
	LCS 660-136731/2-A	83
	LCS 660-136752/2-A	75
	LCS 660-136774/2-A	54
	680-89421-A-1-B MS	75
	680-89459-A-22-B MS	64
CV0909A-GS MS	680-89513-1 MS	59
	680-89421-A-1-C MSD	85

QC LIMITS
30-130

OTPH = o-Terphenyl

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.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
	680-89459-A-22-C MSD	76
CV0909A-GS MSD	680-89513-1 MSD	54

	QC LIMITS
OTPH = o-Terphenyl	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.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1CD24016.D

Lab ID: LCS 660-136731/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	523	78	39-130	
Acenaphthylene	668	506	76	38-130	
Anthracene	668	577	86	37-130	
Benzo[a]anthracene	668	787	118	40-130	
Benzo[a]pyrene	668	499	75	49-130	
Benzo[b]fluoranthene	668	562	84	37-130	
Benzo[g,h,i]perylene	668	542	81	32-130	
Benzo[k]fluoranthene	668	662	99	32-130	
Chrysene	668	567	85	41-130	
Dibenz(a,h)anthracene	668	631	94	27-130	
Fluoranthene	668	617	92	40-130	
Fluorene	668	597	89	40-130	
Indeno[1,2,3-cd]pyrene	668	574	86	30-130	
1-Methylnaphthalene	668	546	82	31-130	
2-Methylnaphthalene	668	521	78	33-130	
Naphthalene	668	612	91	36-130	
Phenanthrene	668	653	98	42-130	
Pyrene	668	571	85	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1DD25006.D

Lab ID: LCS 660-136774/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	338	51	39-130	
Acenaphthylene	664	354	53	38-130	
Anthracene	664	347	52	37-130	
Benzo[a]anthracene	664	371	56	40-130	
Benzo[a]pyrene	664	335	50	49-130	
Benzo[b]fluoranthene	664	389	59	37-130	
Benzo[g,h,i]perylene	664	374	56	32-130	
Benzo[k]fluoranthene	664	369	56	32-130	
Chrysene	664	343	52	41-130	
Dibenz(a,h)anthracene	664	390	59	27-130	
Fluoranthene	664	384	58	40-130	
Fluorene	664	377	57	40-130	
Indeno[1,2,3-cd]pyrene	664	376	57	30-130	
1-Methylnaphthalene	664	371	56	31-130	
2-Methylnaphthalene	664	363	55	33-130	
Naphthalene	664	343	52	36-130	
Phenanthrene	664	350	53	42-130	
Pyrene	664	329	50	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1CD24018.D

Lab ID: 680-89421-A-1-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	868	520 U	648	75	39-130	
Acenaphthylene	868	210 U	637	73	38-130	
Anthracene	868	160	637	54	37-130	
Benzo[a]anthracene	868	720	1260	62	40-130	
Benzo[a]pyrene	868	420	940	60	49-130	
Benzo[b]fluoranthene	868	700	1430	84	37-130	
Benzo[g,h,i]perylene	868	380	953	66	32-130	
Benzo[k]fluoranthene	868	130	972	97	32-130	
Chrysene	868	480	1430	110	41-130	
Dibenz(a,h)anthracene	868	73 J	778	81	27-130	
Fluoranthene	868	500	1430	107	40-130	
Fluorene	868	100 U	588	68	40-130	
Indeno[1,2,3-cd]pyrene	868	420	820	46	30-130	
1-Methylnaphthalene	868	230	1000	89	31-130	
2-Methylnaphthalene	868	470	1270	92	33-130	
Naphthalene	868	300	1010	82	36-130	
Phenanthrene	868	540	1490	110	42-130	
Pyrene	868	590	1170	66	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1DD24020.D

Lab ID: 680-89459-A-22-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	852	130 U	531	62	39-130	
Acenaphthylene	852	9.5 J	558	64	38-130	
Anthracene	852	27	578	65	37-130	
Benzo[a]anthracene	852	140	706	67	40-130	
Benzo[a]pyrene	852	200	697	58	49-130	
Benzo[b]fluoranthene	852	350	906	65	37-130	
Benzo[g,h,i]perylene	852	150	530	45	32-130	
Benzo[k]fluoranthene	852	110	721	71	32-130	
Chrysene	852	210	733	61	41-130	
Dibenz(a,h)anthracene	852	49	551	59	27-130	
Fluoranthene	852	170	751	69	40-130	
Fluorene	852	6.2 J	584	68	40-130	
Indeno[1,2,3-cd]pyrene	852	130	561	50	30-130	
1-Methylnaphthalene	852	52	605	65	31-130	
2-Methylnaphthalene	852	70	618	64	33-130	
Naphthalene	852	73	589	60	36-130	
Phenanthrene	852	100	650	64	42-130	
Pyrene	852	130	637	59	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1DD25008.D

Lab ID: 680-89513-1 MS Client ID: CV0909A-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	890	530 U	501 J	56	39-130	
Acenaphthylene	890	210 U	547	61	38-130	
Anthracene	890	59	619	63	37-130	
Benzo[a]anthracene	890	310	1070	85	40-130	
Benzo[a]pyrene	890	250	884	71	49-130	
Benzo[b]fluoranthene	890	430	1270	95	37-130	
Benzo[g,h,i]perylene	890	190	815	70	32-130	
Benzo[k]fluoranthene	890	130	746	69	32-130	
Chrysene	890	380	1060	77	41-130	
Dibenz(a,h)anthracene	890	64 J	651	66	27-130	
Fluoranthene	890	550	1520	109	40-130	
Fluorene	890	110 U	567	64	40-130	
Indeno[1,2,3-cd]pyrene	890	160	743	65	30-130	
1-Methylnaphthalene	890	200 J	874	75	31-130	
2-Methylnaphthalene	890	250	929	76	33-130	
Naphthalene	890	160 J	739	65	36-130	
Phenanthrene	890	360	1150	90	42-130	
Pyrene	890	440	1190	85	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1CD24019.D

Lab ID: 680-89421-A-1-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	866	543	63	18	40	39-130	
Acenaphthylene	866	662	76	4	40	38-130	
Anthracene	866	660	57	4	40	37-130	
Benzo[a]anthracene	866	1270	64	1	40	40-130	
Benzo[a]pyrene	866	1100	79	16	40	49-130	
Benzo[b]fluoranthene	866	1290	69	10	40	37-130	
Benzo[g,h,i]perylene	866	868	56	9	40	32-130	
Benzo[k]fluoranthene	866	1030	104	6	40	32-130	
Chrysene	866	1290	94	10	40	41-130	
Dibenz(a,h)anthracene	866	665	68	16	40	27-130	
Fluoranthene	866	1700	139	17	40	40-130	F
Fluorene	866	800	92	30	40	40-130	
Indeno[1,2,3-cd]pyrene	866	852	50	4	40	30-130	
1-Methylnaphthalene	866	1200	112	18	40	31-130	
2-Methylnaphthalene	866	1300	95	2	40	33-130	
Naphthalene	866	1020	83	1	40	36-130	
Phenanthrene	866	1750	139	16	40	42-130	F
Pyrene	866	1470	102	23	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1DD24021.D

Lab ID: 680-89459-A-22-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	852	624	73	16	40	39-130	
Acenaphthylene	852	666	77	18	40	38-130	
Anthracene	852	691	78	18	40	37-130	
Benzo[a]anthracene	852	855	84	19	40	40-130	
Benzo[a]pyrene	852	827	74	17	40	49-130	
Benzo[b]fluoranthene	852	1150	94	24	40	37-130	
Benzo[g,h,i]perylene	852	619	55	16	40	32-130	
Benzo[k]fluoranthene	852	835	85	15	40	32-130	
Chrysene	852	833	73	13	40	41-130	
Dibenz(a,h)anthracene	852	638	69	15	40	27-130	
Fluoranthene	852	883	84	16	40	40-130	
Fluorene	852	682	79	15	40	40-130	
Indeno[1,2,3-cd]pyrene	852	647	60	14	40	30-130	
1-Methylnaphthalene	852	708	77	16	40	31-130	
2-Methylnaphthalene	852	705	75	13	40	33-130	
Naphthalene	852	690	72	16	40	36-130	
Phenanthrene	852	759	77	15	40	42-130	
Pyrene	852	734	70	14	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Matrix: Solid Level: Low Lab File ID: 1DD25009.D

Lab ID: 680-89513-1 MSD Client ID: CV0909A-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	890	440 J	49	13	40	39-130	
Acenaphthylene	890	466	52	16	40	38-130	
Anthracene	890	528	53	16	40	37-130	
Benzo[a]anthracene	890	834	59	25	40	40-130	
Benzo[a]pyrene	890	707	52	22	40	49-130	
Benzo[b]fluoranthene	890	1010	65	23	40	37-130	
Benzo[g,h,i]perylene	890	700	58	15	40	32-130	
Benzo[k]fluoranthene	890	639	57	15	40	32-130	
Chrysene	890	829	51	25	40	41-130	
Dibenz(a,h)anthracene	890	569	57	13	40	27-130	
Fluoranthene	890	1090	61	33	40	40-130	
Fluorene	890	481	54	16	40	40-130	
Indeno[1,2,3-cd]pyrene	890	653	55	13	40	30-130	
1-Methylnaphthalene	890	720	58	19	40	31-130	
2-Methylnaphthalene	890	768	58	19	40	33-130	
Naphthalene	890	608	51	19	40	36-130	
Phenanthrene	890	879	59	27	40	42-130	
Pyrene	890	883	50	30	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab File ID: 1CD24015.D Lab Sample ID: MB 660-136731/1-A

Matrix: Solid Date Extracted: 04/23/2013 10:36

Instrument ID: BSMC5973 Date Analyzed: 04/24/2013 16:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136731/2-A	1CD24016.D	04/24/2013 16:58
	680-89421-A-1-B MS	1CD24018.D	04/24/2013 17:34
	680-89421-A-1-C MSD	1CD24019.D	04/24/2013 17:52
CV0909B-GS	680-89513-2	1CD24022.D	04/24/2013 18:47
CV1176A-CS	680-89513-3	1CD24023.D	04/24/2013 19:05
CV1176A-CSD	680-89513-4	1CD24024.D	04/24/2013 19:24
CV1176B-CS	680-89513-5	1CD24025.D	04/24/2013 19:42
HP0063A-CS-SP	680-89513-6	1CD24026.D	04/24/2013 20:00
HP0063B-CS-SP	680-89513-7	1CD24027.D	04/24/2013 20:19
HP0064A-CS-SP	680-89513-8	1CD24028.D	04/24/2013 20:37
HP0064B-CS-SP	680-89513-9	1CD24029.D	04/24/2013 20:55
CV0788A-CS	680-89513-10	1CD24030.D	04/24/2013 21:14
CV0788B-CS	680-89513-11	1CD24031.D	04/24/2013 21:32
CV1150A-CS	680-89513-12	1CD24032.D	04/24/2013 21:51
CV1150B-CS	680-89513-13	1CD24033.D	04/24/2013 22:09
CV1332A-CS	680-89513-14	1CD24034.D	04/24/2013 22:27
CV1332B-CS	680-89513-15	1CD24035.D	04/24/2013 22:46
CV1334B-CS	680-89513-17	1CD24036.D	04/24/2013 23:04
CV0998A-CS	680-89513-18	1CD24037.D	04/24/2013 23:23
CV1334A-CS	680-89513-16	1CD24038.D	04/24/2013 23:41

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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
	680-89459-A-22-B MS	1DD24020.D	04/24/2013 19:10
	680-89459-A-22-C MSD	1DD24021.D	04/24/2013 19:33
CV1087A-CS	680-89513-19	1DD24022.D	04/24/2013 19:55
CV1087B-CS	680-89513-20	1DD24023.D	04/24/2013 20:18

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab File ID: 1DD25005.D Lab Sample ID: MB 660-136774/1-A

Matrix: Solid Date Extracted: 04/24/2013 09:50

Instrument ID: BSMD5973 Date Analyzed: 04/25/2013 15:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136774/2-A	1DD25006.D	04/25/2013 15:26
CV0909A-GS	680-89513-1	1DD25007.D	04/25/2013 15:48
CV0909A-GS MS	680-89513-1 MS	1DD25008.D	04/25/2013 16:11
CV0909A-GS MSD	680-89513-1 MSD	1DD25009.D	04/25/2013 16:33

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab File ID: 1CD24006.D DFTPP Injection Date: 04/24/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:40

Analysis Batch No.: 136792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	71.7	
68	Less than 2.0 % of mass 69	1.1	(1.5)1
69	Mass 69 relative abundance	73.2	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	59.5	
197	Less than 2.0 % of mass 198	1.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	7.3	
441	Present but less than mass 443	10.3	
442	Greater than 50.0 % of mass 198	58.7	
443	15.0 - 24.0 % of mass 442	11.7	(19.9)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-136792/8	1CD24007.D	04/24/2013	13:57
	IC 660-136792/9	1CD24008.D	04/24/2013	14:16
	IC 660-136792/10	1CD24009.D	04/24/2013	14:34
	IC 660-136792/11	1CD24010.D	04/24/2013	14:52
	IC 660-136792/12	1CD24011.D	04/24/2013	15:11
	IC 660-136792/13	1CD24012.D	04/24/2013	15:29
	IC 660-136792/14	1CD24013.D	04/24/2013	15:47
	ICV 660-136792/15	1CD24014.D	04/24/2013	16:06
	MB 660-136731/1-A	1CD24015.D	04/24/2013	16:40
	LCS 660-136731/2-A	1CD24016.D	04/24/2013	16:58
	680-89421-A-1-B MS	1CD24018.D	04/24/2013	17:34
	680-89421-A-1-C MSD	1CD24019.D	04/24/2013	17:52
CV0909B-GS	680-89513-2	1CD24022.D	04/24/2013	18:47
CV1176A-CS	680-89513-3	1CD24023.D	04/24/2013	19:05
CV1176A-CSD	680-89513-4	1CD24024.D	04/24/2013	19:24
CV1176B-CS	680-89513-5	1CD24025.D	04/24/2013	19:42
HP0063A-CS-SP	680-89513-6	1CD24026.D	04/24/2013	20:00
HP0063B-CS-SP	680-89513-7	1CD24027.D	04/24/2013	20:19
HP0064A-CS-SP	680-89513-8	1CD24028.D	04/24/2013	20:37
HP0064B-CS-SP	680-89513-9	1CD24029.D	04/24/2013	20:55
CV0788A-CS	680-89513-10	1CD24030.D	04/24/2013	21:14
CV0788B-CS	680-89513-11	1CD24031.D	04/24/2013	21:32
CV1150A-CS	680-89513-12	1CD24032.D	04/24/2013	21:51

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab File ID: 1CD24006.D DFTPP Injection Date: 04/24/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:40

Analysis Batch No.: 136792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	71.7	
68	Less than 2.0 % of mass 69	1.1	(1.5)1
69	Mass 69 relative abundance	73.2	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	59.5	
197	Less than 2.0 % of mass 198	1.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	7.3	
441	Present but less than mass 443	10.3	
442	Greater than 50.0 % of mass 198	58.7	
443	15.0 - 24.0 % of mass 442	11.7	(19.9)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
CV1150B-CS	680-89513-13	1CD24033.D	04/24/2013	22:09
CV1332A-CS	680-89513-14	1CD24034.D	04/24/2013	22:27
CV1332B-CS	680-89513-15	1CD24035.D	04/24/2013	22:46
CV1334B-CS	680-89513-17	1CD24036.D	04/24/2013	23:04
CV0998A-CS	680-89513-18	1CD24037.D	04/24/2013	23:23
CV1334A-CS	680-89513-16	1CD24038.D	04/24/2013	23:41

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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.: 680-89513-1

SDG No.: 68089513-1

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
	680-89459-A-22-B MS	1DD24020.D	04/24/2013	19:10
	680-89459-A-22-C MSD	1DD24021.D	04/24/2013	19:33
CV1087A-CS	680-89513-19	1DD24022.D	04/24/2013	19:55
CV1087B-CS	680-89513-20	1DD24023.D	04/24/2013	20:18

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab File ID: 1DD25002.D DFTPP Injection Date: 04/25/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:00

Analysis Batch No.: 136899

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	47.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	47.5	
70	Less than 2.0 % of mass 69	0.6	(1.2)1
127	10.0 - 80.0 % of mass 198	52.3	
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	7.7	
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	12.6	
442	Greater than 50.0 % of mass 198	77.0	
443	15.0 - 24.0 % of mass 442	14.6	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136899/3	1DD25003.D	04/25/2013	12:21
	MB 660-136774/1-A	1DD25005.D	04/25/2013	15:03
	LCS 660-136774/2-A	1DD25006.D	04/25/2013	15:26
CV0909A-GS	680-89513-1	1DD25007.D	04/25/2013	15:48
CV0909A-GS MS	680-89513-1 MS	1DD25008.D	04/25/2013	16:11
CV0909A-GS MSD	680-89513-1 MSD	1DD25009.D	04/25/2013	16:33

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N

Calibration ID: 2916

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		127529	3.63	79707	4.72	157508	5.66
UPPER LIMIT		255058	4.13	159414	5.22	315016	6.16
LOWER LIMIT		63765	3.13	39854	4.22	78754	5.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136792/15		178260	3.63	107629	4.72	194163	5.66
MB 660-136731/1-A		148951	3.63	95079	4.72	165222	5.67
LCS 660-136731/2-A		127322	3.63	84433	4.72	159954	5.66
680-89421-A-1-B MS		132812	3.63	88305	4.72	182302	5.66
680-89421-A-1-C MSD		154110	3.63	101315	4.72	195570	5.66
680-89513-2	CV0909B-GS	161435	3.63	107111	4.72	205030	5.66
680-89513-3	CV1176A-CS	141908	3.63	101147	4.72	192922	5.66
680-89513-4	CV1176A-CSD	162553	3.63	111393	4.72	203751	5.66
680-89513-5	CV1176B-CS	142592	3.63	92185	4.72	197130	5.66
680-89513-6	HP0063A-CS-SP	173394	3.63	106100	4.72	198913	5.66
680-89513-7	HP0063B-CS-SP	162412	3.63	105059	4.72	191462	5.66
680-89513-8	HP0064A-CS-SP	162144	3.63	111689	4.72	209170	5.66
680-89513-9	HP0064B-CS-SP	142928	3.63	98371	4.72	200013	5.66
680-89513-10	CV0788A-CS	165217	3.63	114244	4.72	211815	5.67
680-89513-11	CV0788B-CS	160905	3.63	109337	4.72	198091	5.67
680-89513-12	CV1150A-CS	155481	3.63	105751	4.72	211089	5.67
680-89513-13	CV1150B-CS	156057	3.63	108055	4.72	202404	5.67
680-89513-14	CV1332A-CS	162685	3.63	111331	4.72	212363	5.67
680-89513-15	CV1332B-CS	149288	3.63	108706	4.72	193623	5.67
680-89513-17	CV1334B-CS	154038	3.63	97161	4.72	206340	5.67
680-89513-18	CV0998A-CS	160775	3.63	107069	4.72	206997	5.67
680-89513-16	CV1334A-CS	165032	3.63	116719	4.72	215155	5.67

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Sample No.: ICIS 660-136792/8 Date Analyzed: 04/24/2013 13:57

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1CD24007.D Heated Purge: (Y/N) N

Calibration ID: 2916

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		216809	7.59	224587	8.74		
UPPER LIMIT		433618	8.09	449174	9.24		
LOWER LIMIT		108405	7.09	112294	8.24		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136792/15		234167	7.59	247483	8.73		
MB 660-136731/1-A		187433	7.60	213613	8.75		
LCS 660-136731/2-A		198591	7.59	222308	8.74		
680-89421-A-1-B MS		228957	7.59	224834	8.74		
680-89421-A-1-C MSD		245677	7.59	249914	8.73		
680-89513-2	CV0909B-GS	244332	7.59	228228	8.74		
680-89513-3	CV1176A-CS	228207	7.59	217203	8.73		
680-89513-4	CV1176A-CSD	240444	7.59	209207	8.73		
680-89513-5	CV1176B-CS	238863	7.59	210530	8.73		
680-89513-6	HP0063A-CS-SP	228028	7.59	209409	8.74		
680-89513-7	HP0063B-CS-SP	349327	7.59	195332	8.74		
680-89513-8	HP0064A-CS-SP	230772	7.59	219069	8.73		
680-89513-9	HP0064B-CS-SP	224348	7.59	209945	8.74		
680-89513-10	CV0788A-CS	225004	7.61	205708	8.76		
680-89513-11	CV0788B-CS	205750	7.61	212128	8.77		
680-89513-12	CV1150A-CS	217863	7.61	199781	8.77		
680-89513-13	CV1150B-CS	213994	7.61	203138	8.77		
680-89513-14	CV1332A-CS	227851	7.61	207553	8.77		
680-89513-15	CV1332B-CS	226597	7.61	194274	8.77		
680-89513-17	CV1334B-CS	210032	7.62	196026	8.77		
680-89513-18	CV0998A-CS	223438	7.62	196567	8.78		
680-89513-16	CV1334A-CS	217780	7.62	200814	8.79		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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 = ± 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.: 680-89513-1

SDG No.: 68089513-1

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 = ± 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.: 680-89513-1

SDG No.: 68089513-1

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-A-22-B MS		2047873	6.05	1241886	7.73	2023214	8.99
680-89459-A-22-C MSD		2013105	6.05	1218867	7.73	1994412	8.99
680-89513-19	CV1087A-CS	2261970	6.05	1418036	7.73	2311101	9.00
680-89513-20	CV1087B-CS	2154774	6.05	1328954	7.74	2188665	8.99

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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-A-22-B MS		2174744	11.30	2244148	13.13		
680-89459-A-22-C MSD		2213259	11.31	2227627	13.14		
680-89513-19	CV1087A-CS	2616680	11.31	2376800	13.13		
680-89513-20	CV1087B-CS	2369692	11.31	2207276	13.13		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Sample No.: CCVIS 660-136899/3 Date Analyzed: 04/25/2013 12:21

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD25003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2587448	6.05	1623254	7.73	2764849	8.99
UPPER LIMIT		5174896	6.55	3246508	8.23	5529698	9.49
LOWER LIMIT		1293724	5.55	811627	7.23	1382425	8.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136774/1-A		2384477	6.05	1549890	7.73	2537023	8.99
LCS 660-136774/2-A		3082764	6.04	1983850	7.73	3364032	8.99
680-89513-1	CV0909A-GS	2862480	6.05	1867187	7.73	3242623	8.99
680-89513-1 MS	CV0909A-GS MS	2718972	6.05	1765880	7.73	2975972	8.99
680-89513-1 MSD	CV0909A-GS MSD	2402837	6.05	1569685	7.73	2665216	8.99

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Sample No.: CCVIS 660-136899/3 Date Analyzed: 04/25/2013 12:21

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1DD25003.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2901859	11.31	2857822	13.13		
UPPER LIMIT		5803718	11.81	5715644	13.63		
LOWER LIMIT		1450930	10.81	1428911	12.63		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136774/1-A		2547187	11.31	2556822	13.13		
LCS 660-136774/2-A		3686793	11.30	3571439	13.13		
680-89513-1	CV0909A-GS	3300453	11.30	3327972	13.13		
680-89513-1 MS	CV0909A-GS MS	3179404	11.30	3131893	13.13		
680-89513-1 MSD	CV0909A-GS MSD	2788818	11.30	2771966	13.13		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0909A-GS | Lab Sample ID: 680-89513-1

Matrix: Solid | Lab File ID: 1DD25007.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:10

Extract. Method: 3546 | Date Extracted: 04/24/2013 09:50

Sample wt/vol: 15.39(g) | Date Analyzed: 04/25/2013 15:48

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136899 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	27
120-12-7	Anthracene	59		45	22
56-55-3	Benzo[a]anthracene	310		43	21
50-32-8	Benzo[a]pyrene	250		56	28
205-99-2	Benzo[b]fluoranthene	430		65	33
191-24-2	Benzo[g,h,i]perylene	190		110	23
207-08-9	Benzo[k]fluoranthene	130		43	19
218-01-9	Chrysene	380		48	24
53-70-3	Dibenz(a,h)anthracene	64	J	110	22
206-44-0	Fluoranthene	550		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	160		110	38
90-12-0	1-Methylnaphthalene	200	J	210	23
91-57-6	2-Methylnaphthalene	250		210	38
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	360		43	21
129-00-0	Pyrene	440		110	20

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25007.D
Lab Smp Id: 680-89513-A-1-A Client Smp ID: CV0909A-GS
Inj Date : 25-APR-2013 15:48
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89513-A-1-A
Misc Info : 680-89513-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 7
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	26.981	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.046	6.049	(1.000)	2862480	40.0000	
* 6 Acenaphthene-d10	164	7.726	7.729	(1.000)	1867187	40.0000	
* 9 Phenanthrene-d10	188	8.990	8.992	(1.000)	3242623	40.0000	
$ 13 o-Terphenyl	230	9.295	9.298	(1.034)	60544	1.23919	440
* 17 Chrysene-d12	240	11.304	11.307	(1.000)	3300453	40.0000	
* 22 Perylene-d12	264	13.126	13.129	(1.000)	3327972	40.0000	
2 Naphthalene	128	6.069	6.072	(1.004)	31315	0.44014	160
3 2-Methylnaphthalene	142	6.774	6.777	(1.120)	32290	0.70305	250
4 1-Methylnaphthalene	142	6.868	6.871	(1.136)	24883	0.57370	200
5 Acenaphthylene	152	7.597	7.600	(0.983)	5329	0.06743	24
8 Fluorene	166	8.196	8.199	(1.061)	3011	0.05212	18
10 Phenanthrene	178	9.007	9.010	(1.002)	89620	1.00339	360
11 Anthracene	178	9.042	9.051	(1.006)	14734	0.16620	59
12 Carbazole	167	9.189	9.192	(1.022)	9329	0.11930	42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.988	9.997	(1.111)	142944	1.55523	550
15 Pyrene	202	10.176	10.185	(0.900)	121493	1.22581	440
16 Benzo(a)anthracene	228	11.281	11.284	(0.998)	83779	0.87798	310
18 Chrysene	228	11.322	11.331	(1.002)	95423	1.06651	380
19 Benzo(b)fluoranthene	252	12.568	12.582	(0.957)	100978	1.21465	430
20 Benzo(k)fluoranthene	252	12.597	12.623	(0.960)	32191	0.36755	130(H)
21 Benzo(a)pyrene	252	13.014	13.035	(0.991)	58177	0.69648	250
23 Indeno(1,2,3-cd)pyrene	276	14.683	14.715	(1.119)	40596	0.45579	160(M)
24 Dibenzo(a,h)anthracene	278	14.706	14.744	(1.120)	15152	0.18065	64(H)
25 Benzo(g,h,i)perylene	276	15.112	15.156	(1.151)	45431	0.52975	190(H)

QC Flag Legend

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

Data File: 1DD25007.D

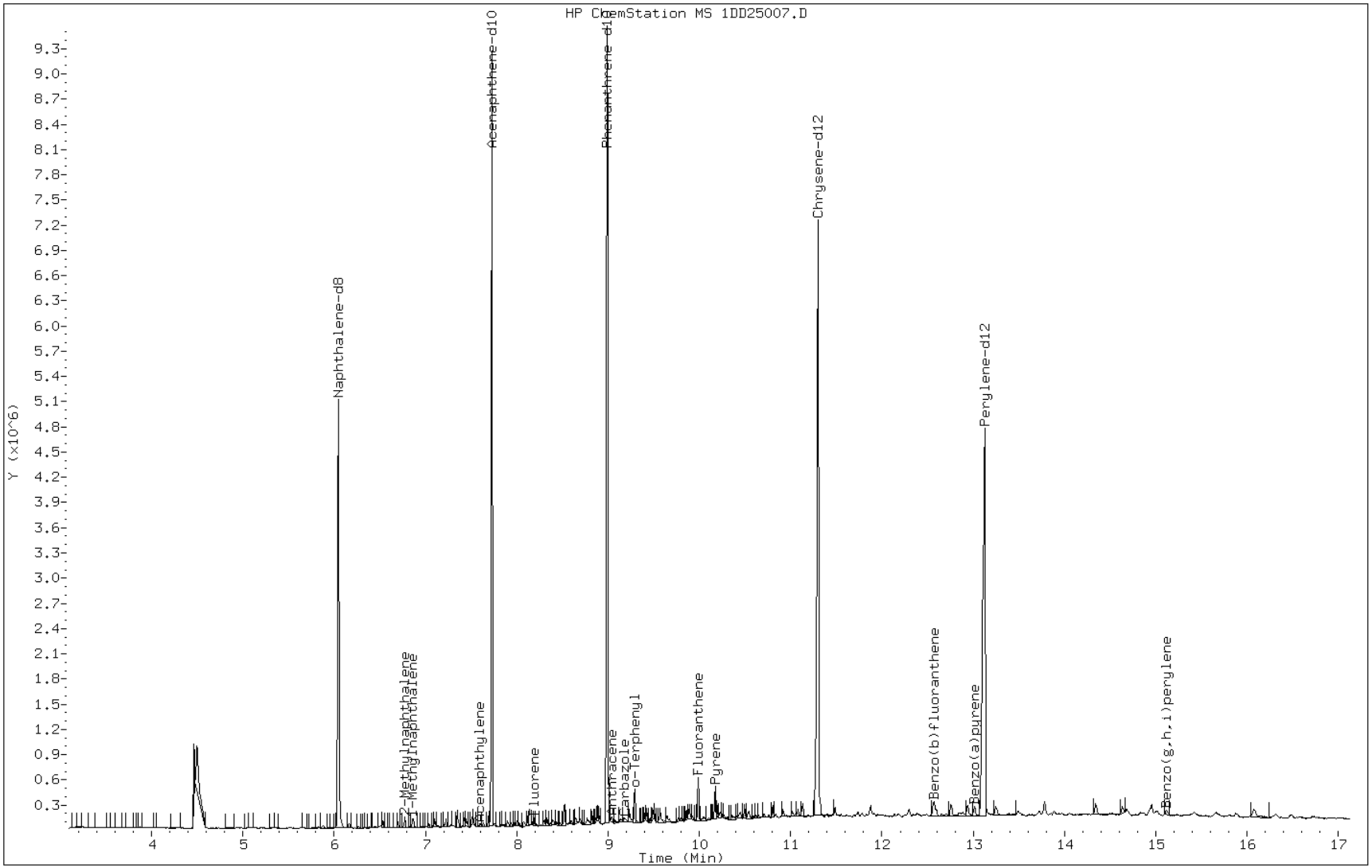
Date: 25-APR-2013 15:48

Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

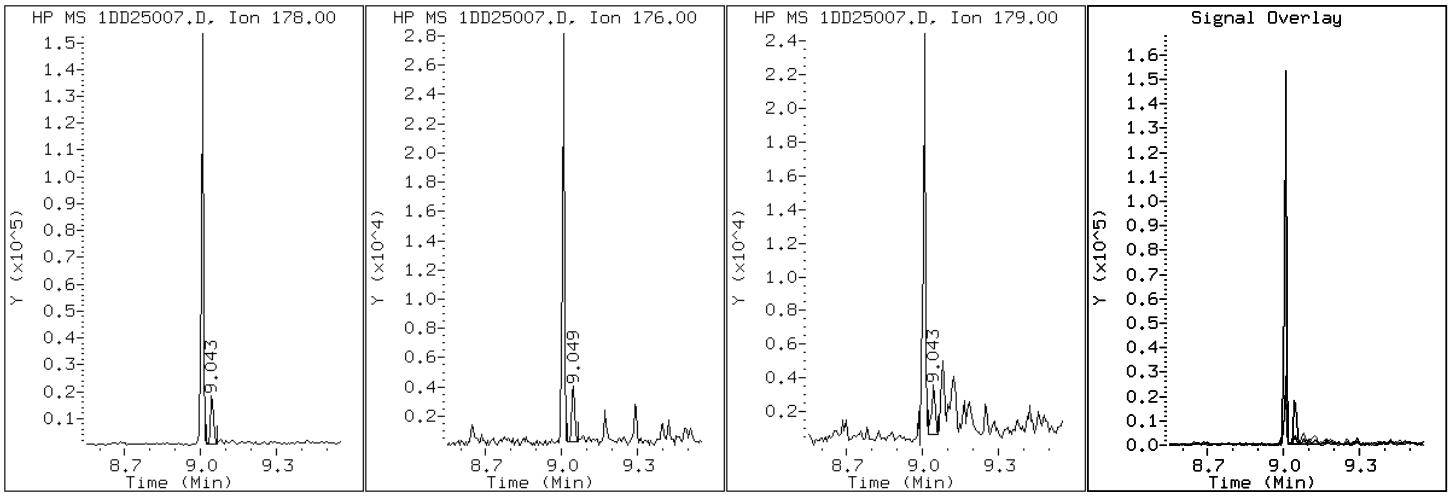
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

11 Anthracene



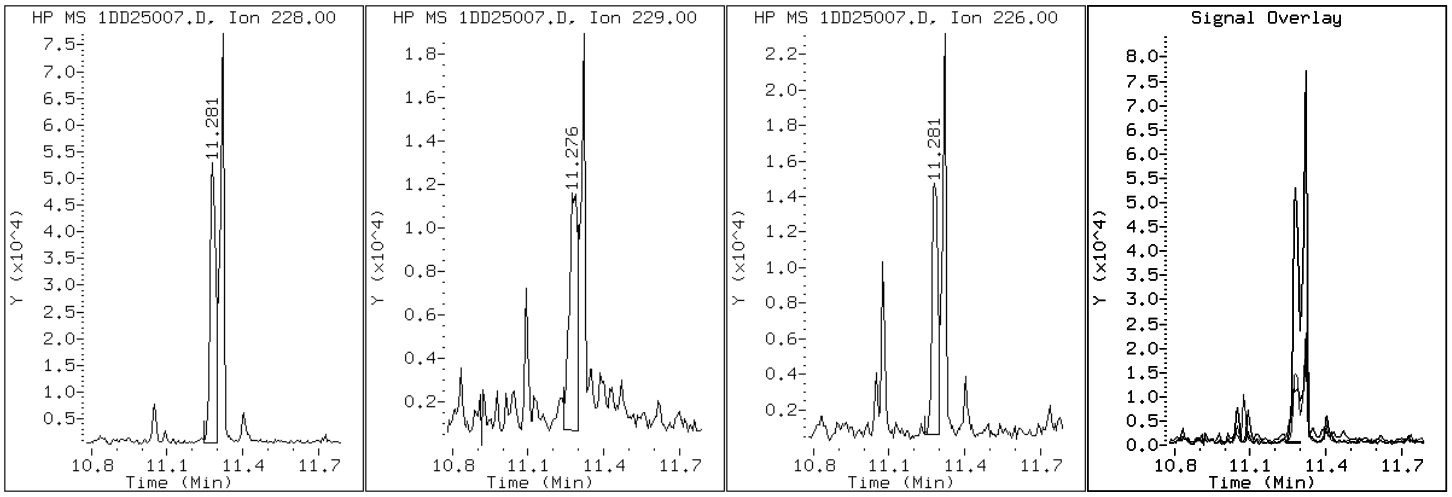
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS | Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A | Operator: SCC

16 Benzo(a)anthracene



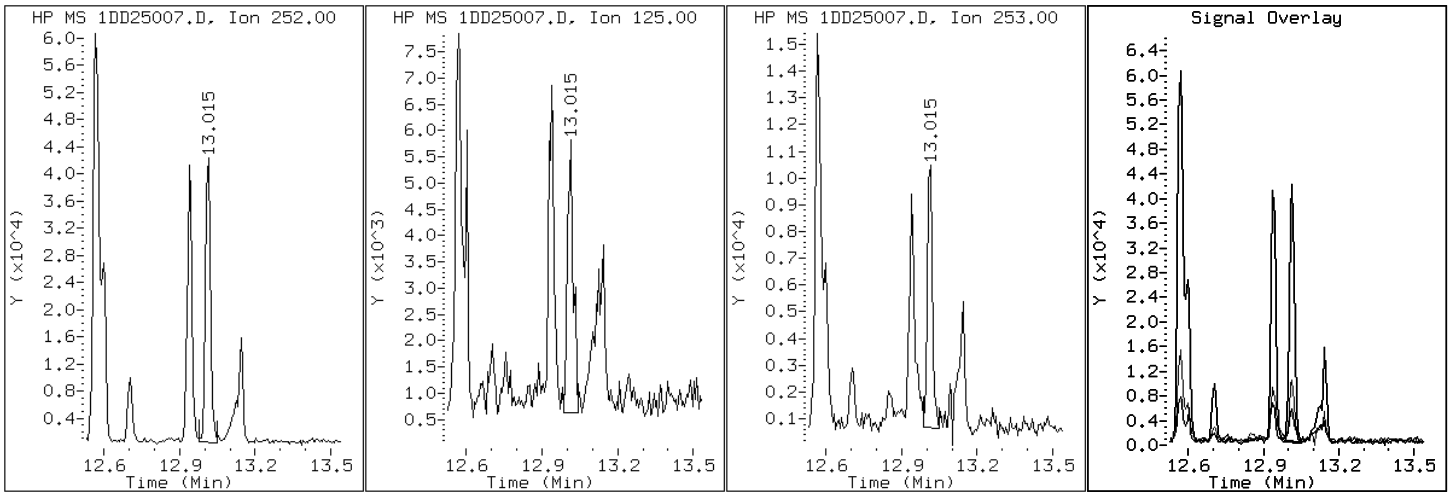
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS | Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A | Operator: SCC

21 Benzo(a)pyrene



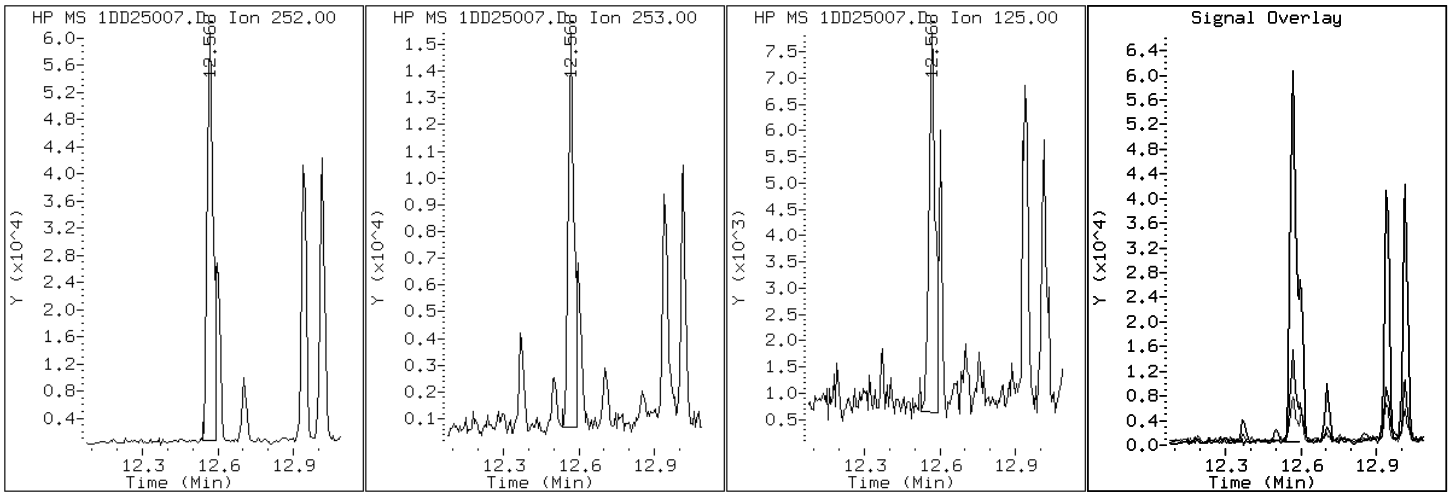
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A Operator: SCC

19 Benzo(b)fluoranthene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

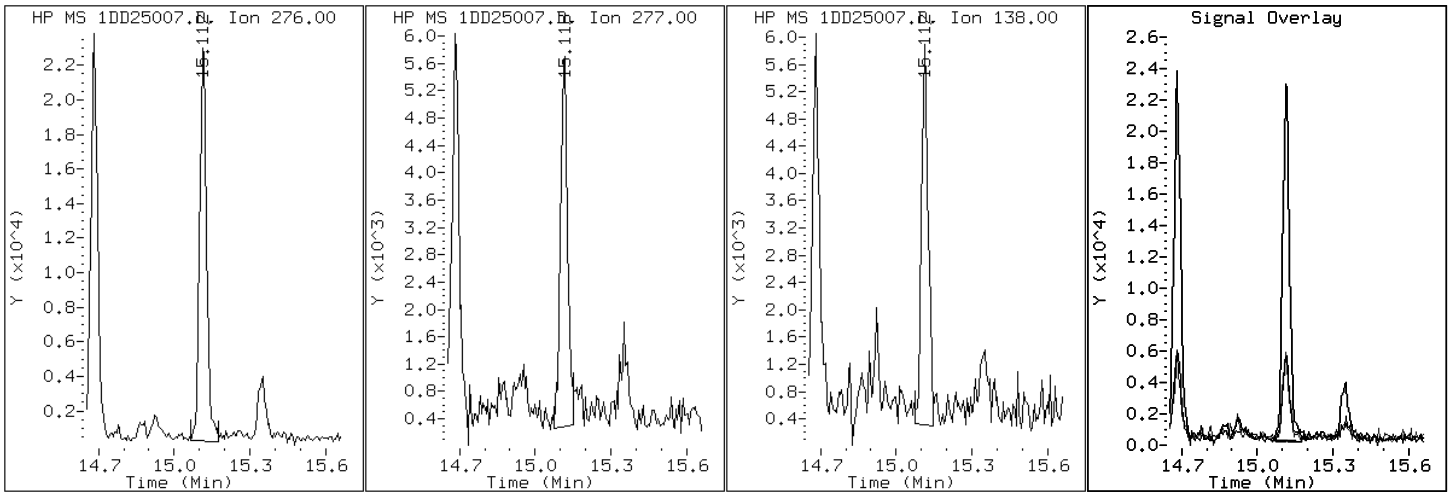
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

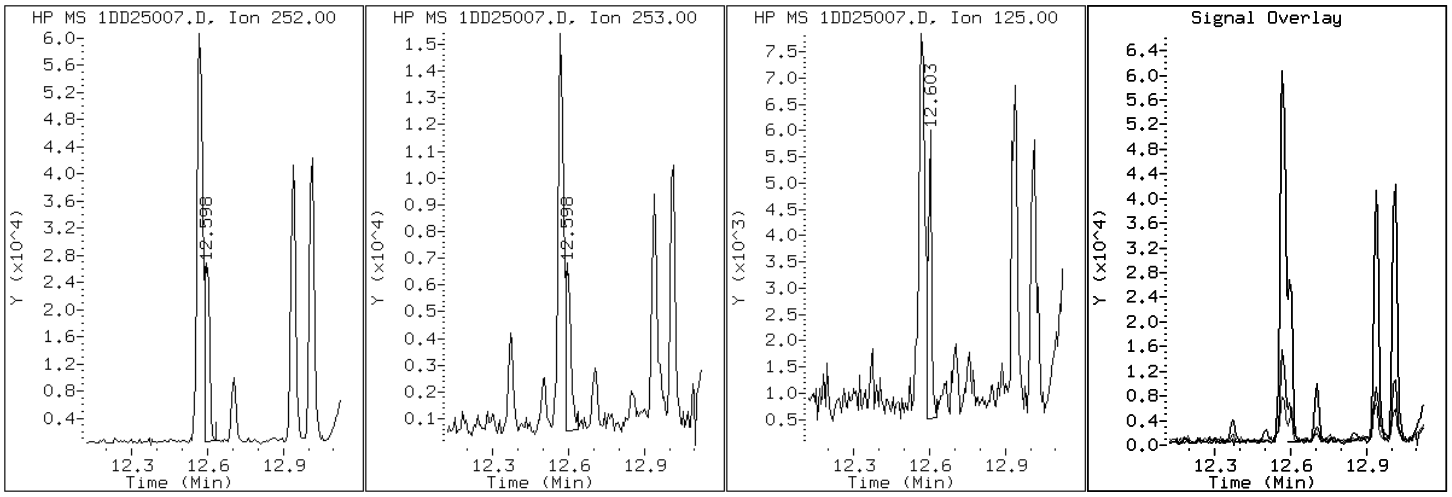
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

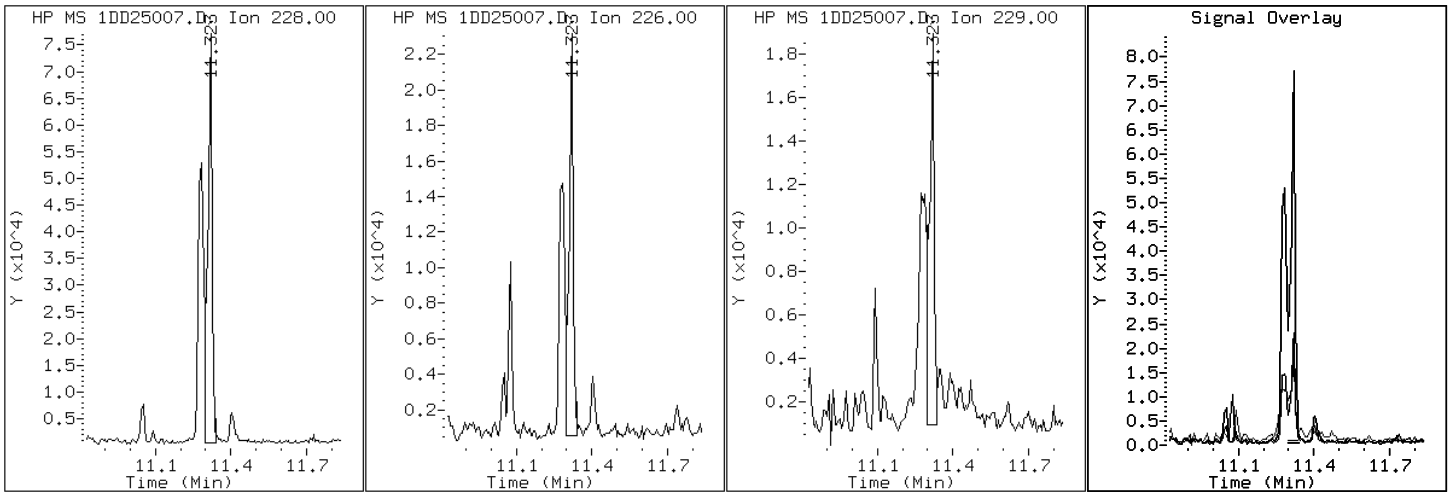
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

18 Chrysene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

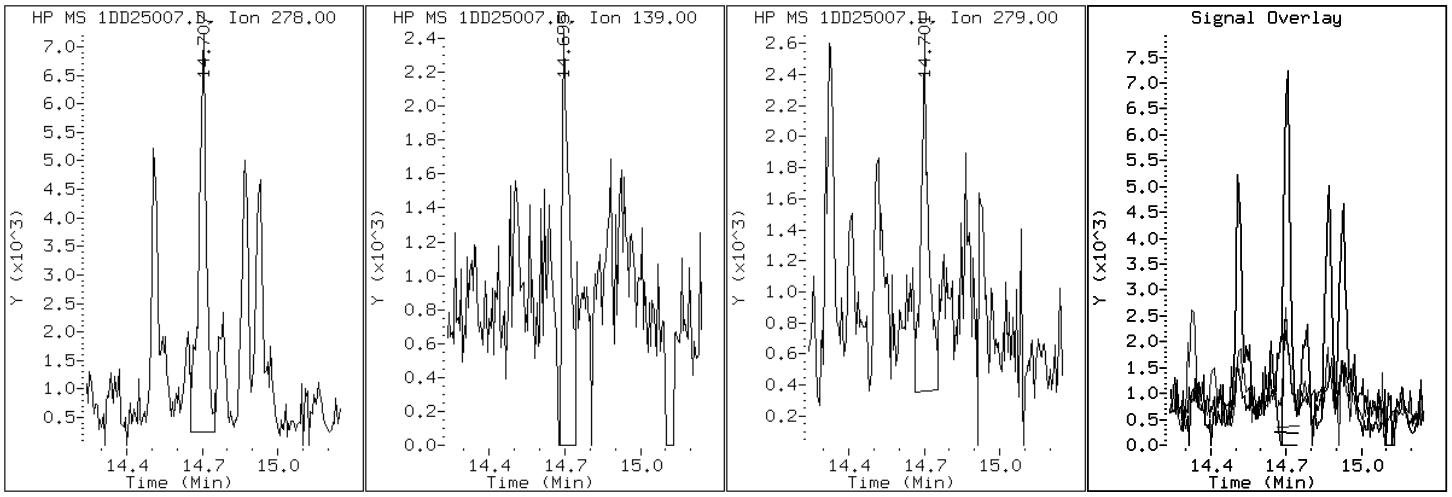
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

24 Dibenzo(a,h)anthracene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

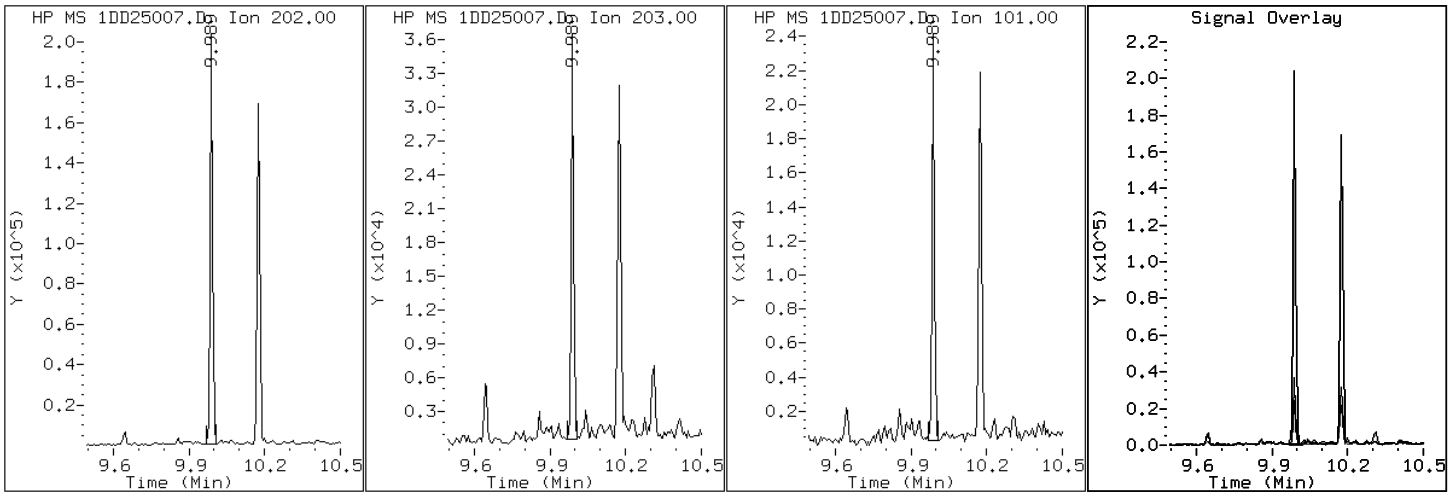
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

14 Fluoranthene



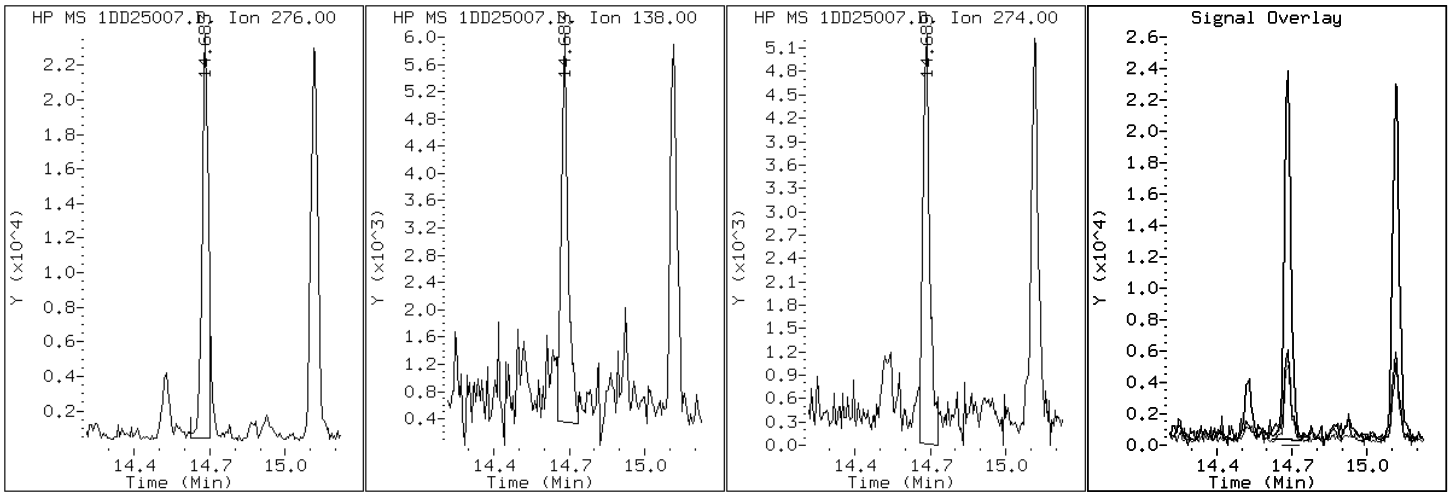
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS | Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A | Operator: SCC

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



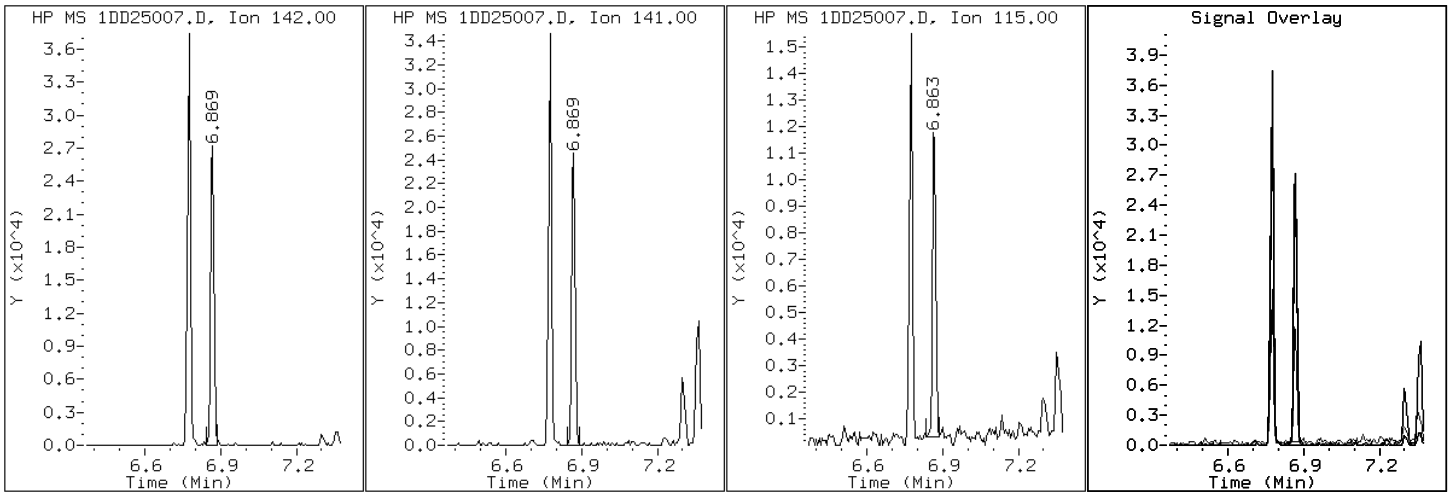
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A Operator: SCC

4 1-Methylnaphthalene



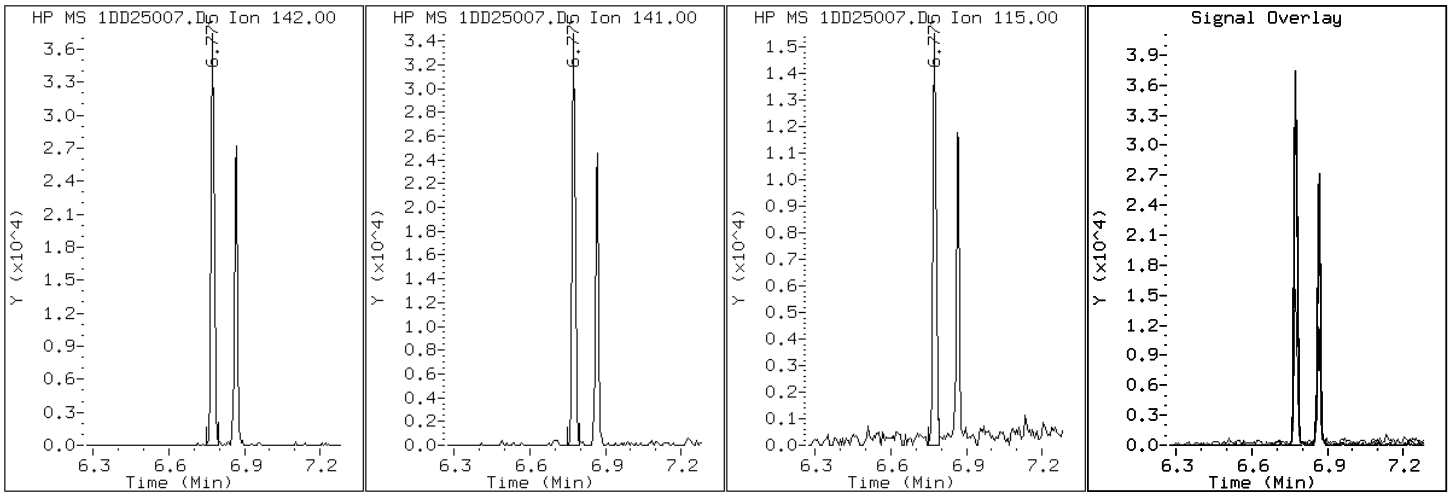
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A Operator: SCC

3 2-Methylnaphthalene



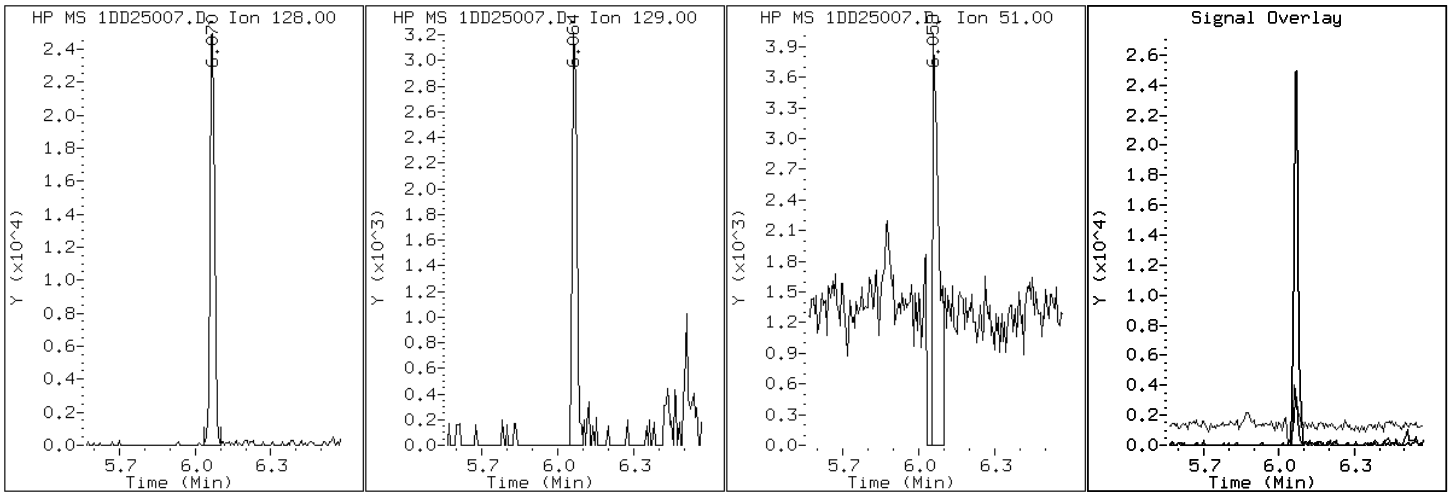
Data File: 1DD25007.D

Date: 25-APR-2013 15:48

Client ID: CV0909A-GS Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A Operator: SCC

2 Naphthalene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

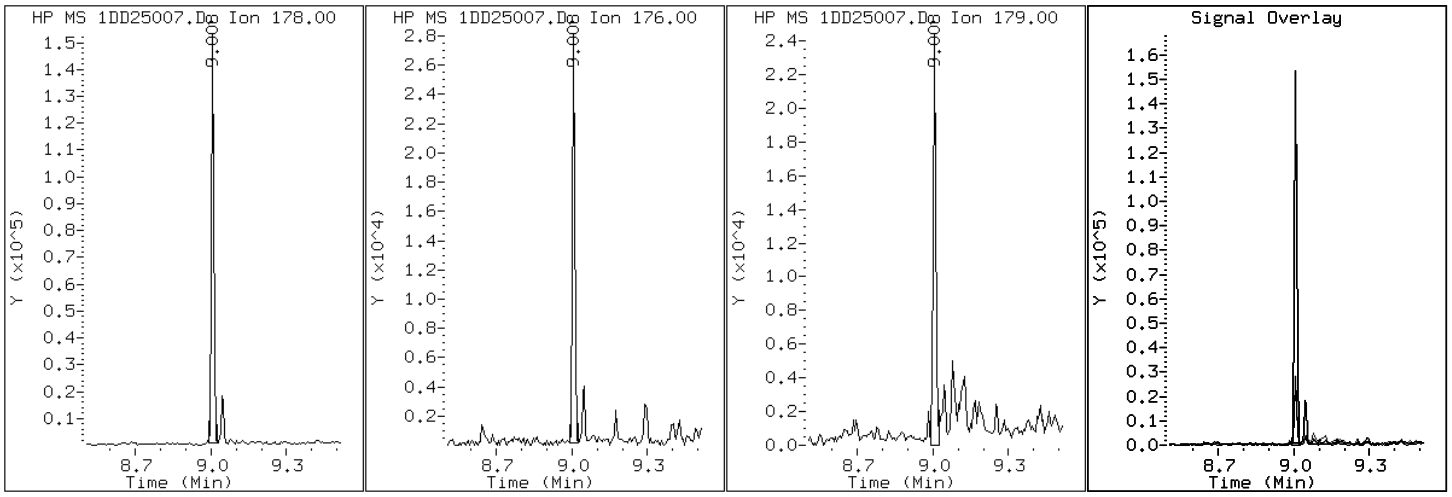
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

10 Phenanthrene



Data File: 1DD25007.D

Date: 25-APR-2013 15:48

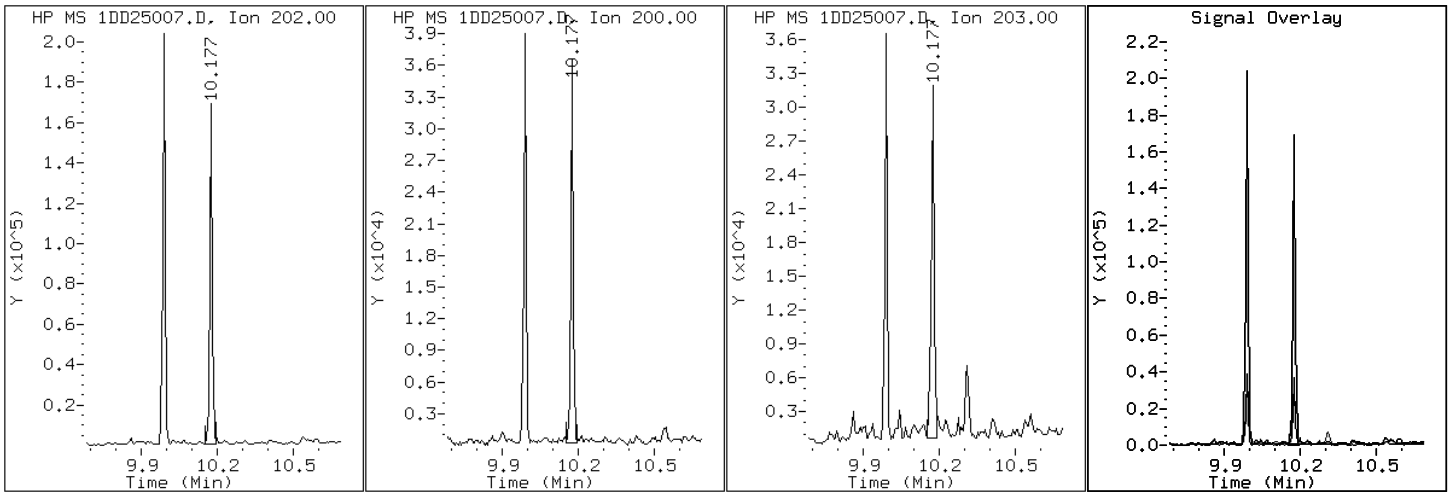
Client ID: CV0909A-GS

Instrument: BSMSD.i

Sample Info: 680-89513-A-1-A

Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD25007.D
Inj. Date and Time: 25-APR-2013 15:48
Instrument ID: BSMSD.i
Client ID: CV0909A-GS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

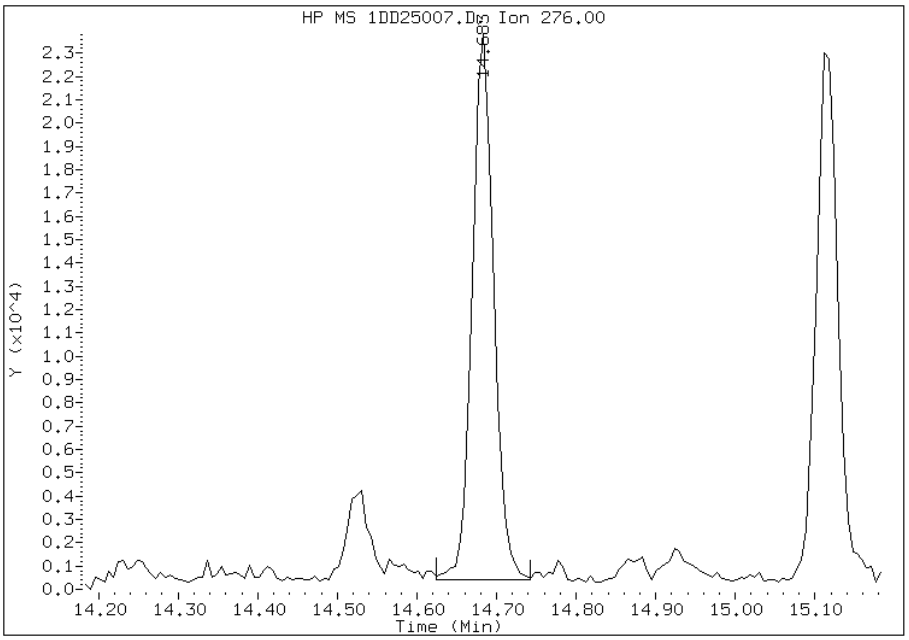
Processing Integration Results

RT: 14.68

Response: 43714

Amount: 0

Conc: 175



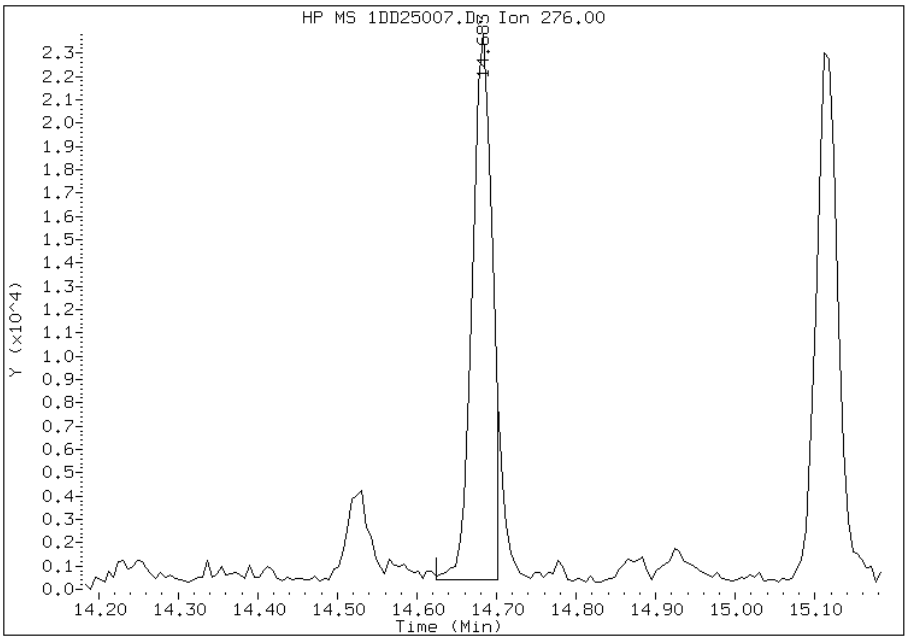
Manual Integration Results

RT: 14.68

Response: 40596

Amount: 0

Conc: 162



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 15:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0909B-GS | Lab Sample ID: 680-89513-2

Matrix: Solid | Lab File ID: 1CD24022.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:20

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.02(g) | Date Analyzed: 04/24/2013 18:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 29.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	230	U	230	28
120-12-7	Anthracene	270		47	24
56-55-3	Benzo[a]anthracene	900		45	22
50-32-8	Benzo[a]pyrene	680		59	29
205-99-2	Benzo[b]fluoranthene	920		69	34
191-24-2	Benzo[g,h,i]perylene	490		110	25
207-08-9	Benzo[k]fluoranthene	380		45	20
218-01-9	Chrysene	840		51	25
53-70-3	Dibenz(a,h)anthracene	76	J	110	23
206-44-0	Fluoranthene	1500		110	23
86-73-7	Fluorene	89	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	600		110	40
90-12-0	1-Methylnaphthalene	280		230	25
91-57-6	2-Methylnaphthalene	580		230	40
91-20-3	Naphthalene	370		230	25
85-01-8	Phenanthrene	1400		45	22
129-00-0	Pyrene	1300		110	21

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24022.D
Lab Smp Id: 680-89513-A-2-A Client Smp ID: CV0909B-GS
Inj Date : 24-APR-2013 18:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-2-a
Misc Info : 680-89513-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 18
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	29.040	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	161435	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	107111	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.663	(1.000)	205030	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	4170	1.40083	525.7261(Q)
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	244332	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	228228	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	4266	0.99413	373.0943(QM)
3 2-Methylnaphthalene	142	4.068	4.075	(1.120)	3053	1.55004	581.7257
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	1891	0.75677	284.0136
9 Fluorene	166	5.057	5.057	(1.071)	885	0.23810	89.3599
11 Phenanthrene	178	5.674	5.675	(1.002)	21448	3.82059	1433.8575
12 Anthracene	178	5.710	5.710	(1.008)	3630	0.73137	274.4828
13 Carbazole	167	5.821	5.822	(1.028)	2709	0.48009	180.1781
15 Fluoranthene	202	6.504	6.504	(1.149)	26892	3.94224	1479.5098

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.674	6.675	(0.879)	24608	3.41022	1279.8442
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	15606	2.40765	903.5835
19 Chrysene	228	7.609	7.610	(1.002)	15634	2.24078	840.9582
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	15554	2.46416	924.7932
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	6287	1.02366	384.1779(Q)
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	9969	1.81328	680.5204
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	6281	1.60809	603.5117(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	1121	0.20256	76.0195(QM)
26 Benzo(g,h,i)perylene	276	10.168	10.163	(1.164)	7579	1.31519	493.5852(M)

QC Flag Legend

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

Data File: 1CD24022.D

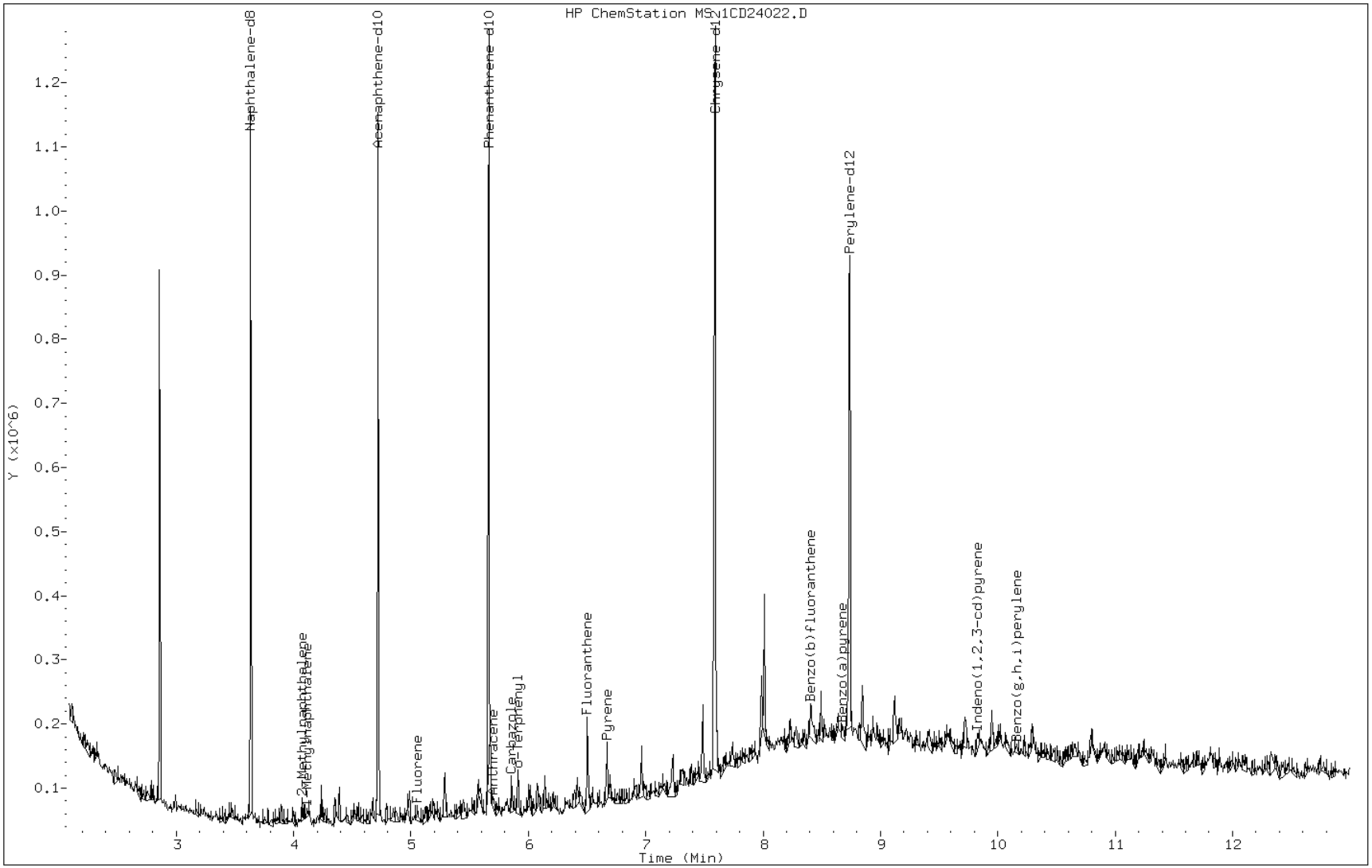
Date: 24-APR-2013 18:47

Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

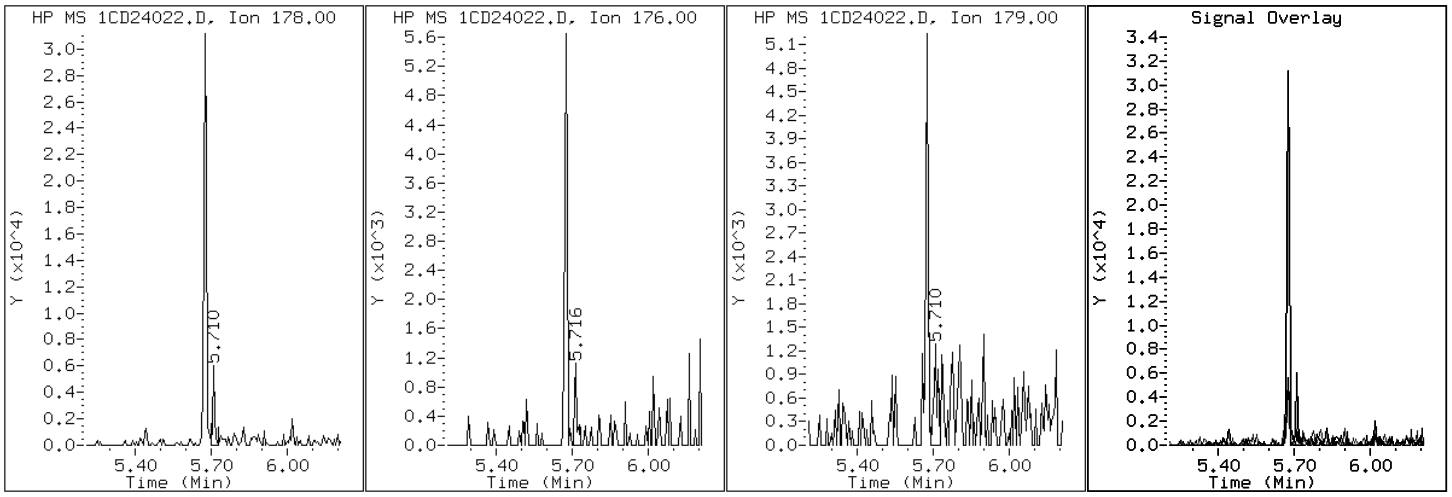
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

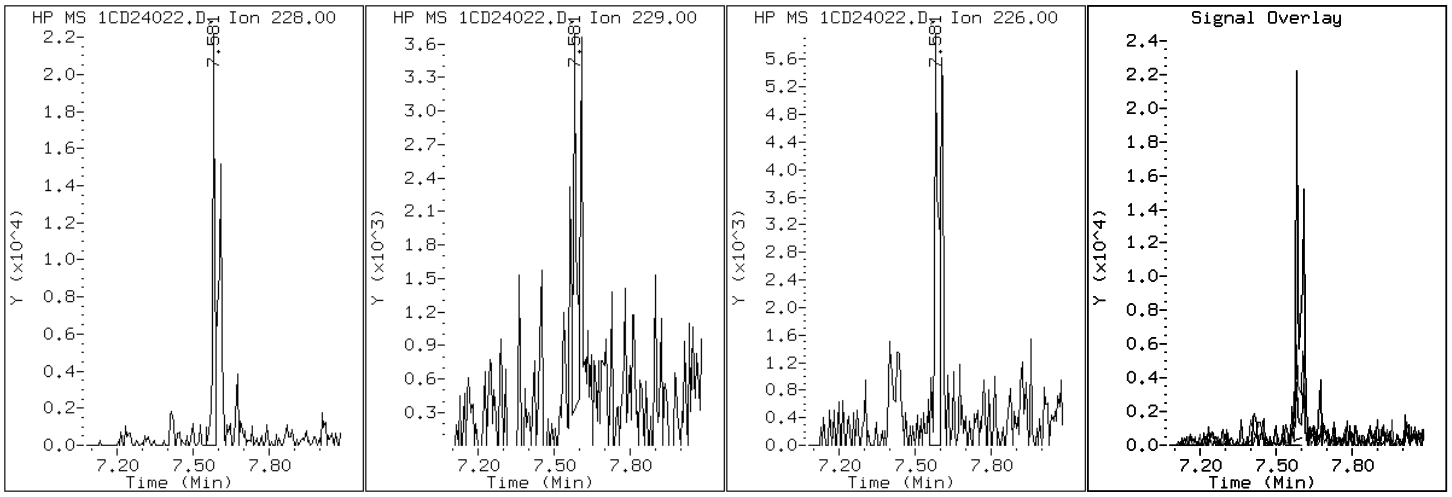
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

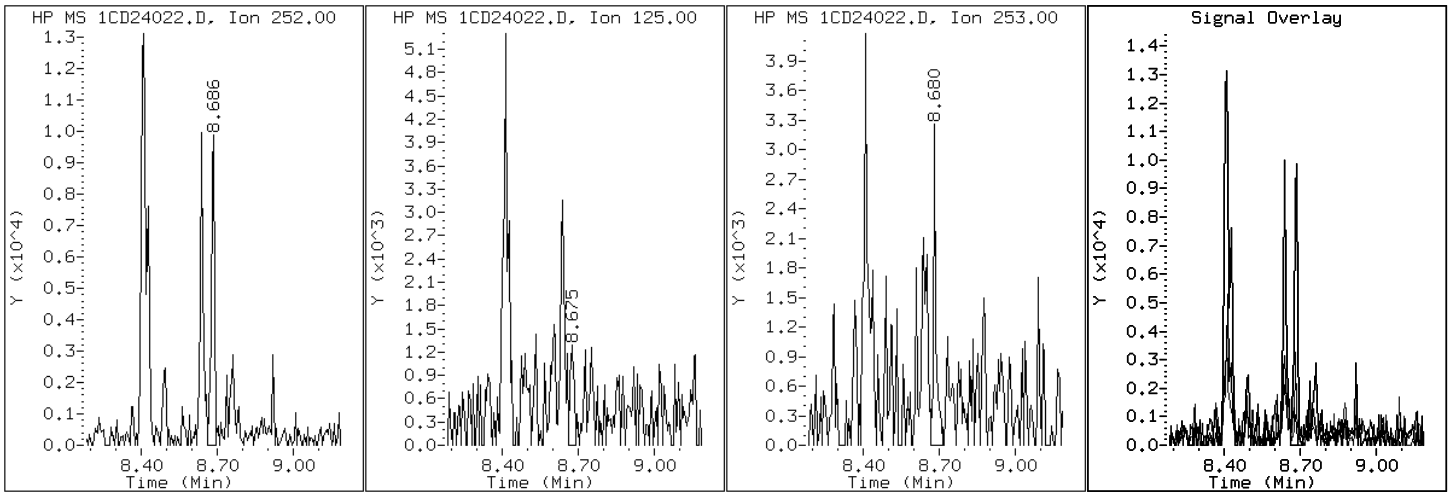
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

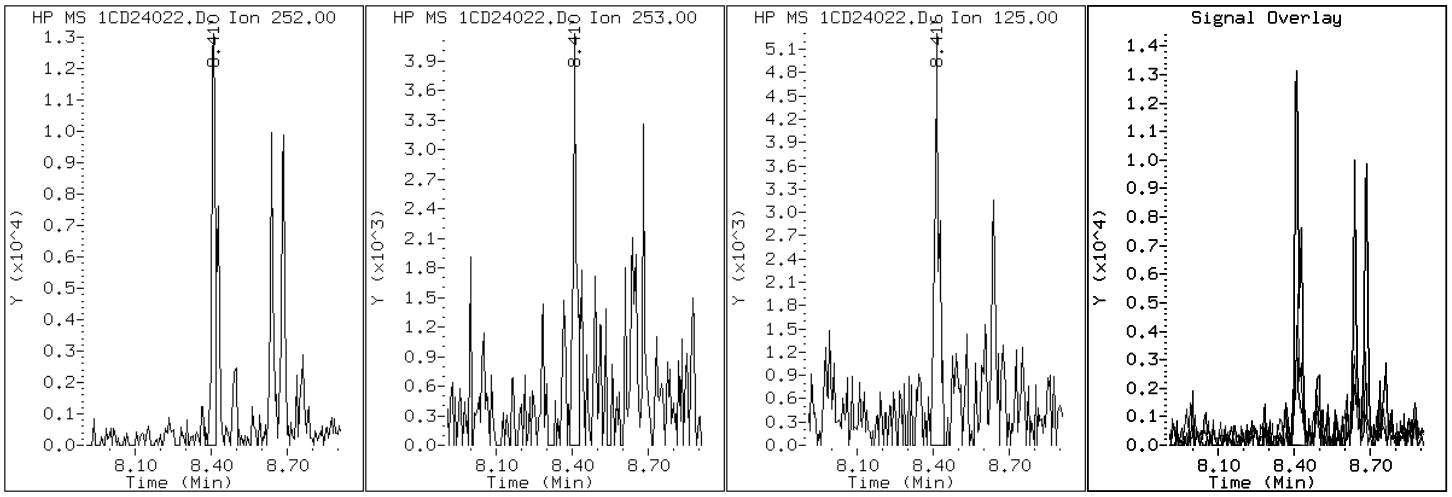
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

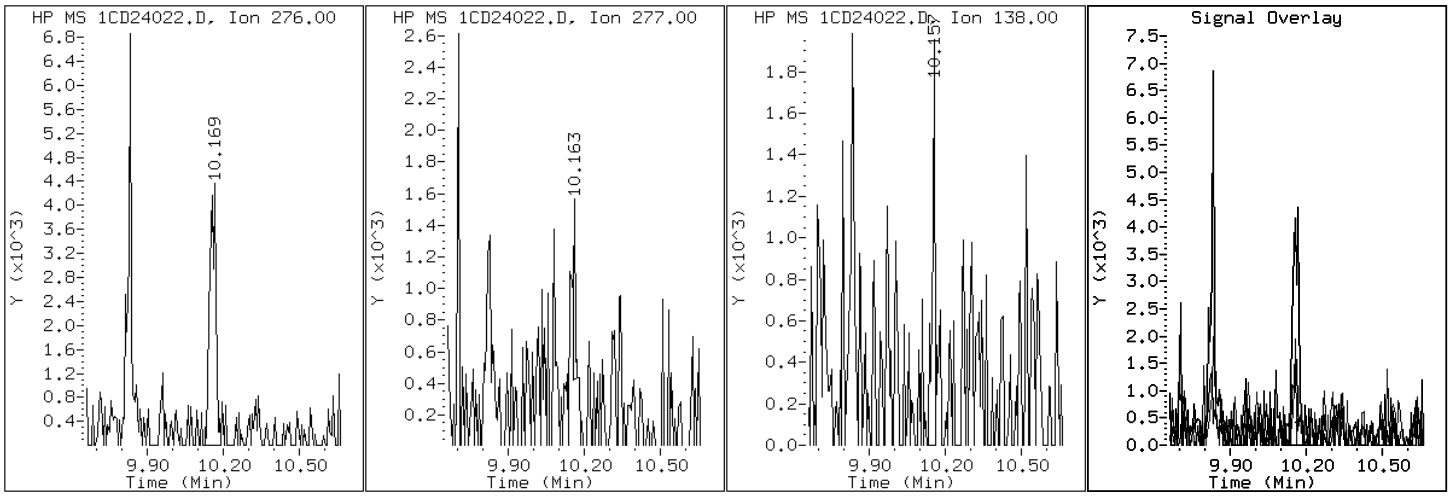
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

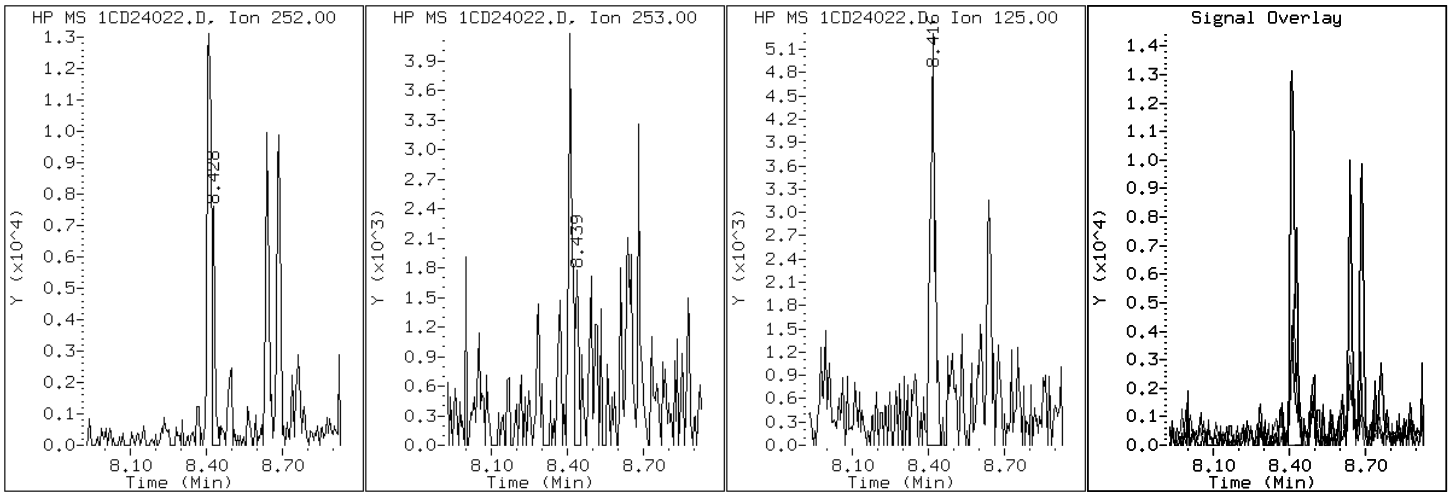
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

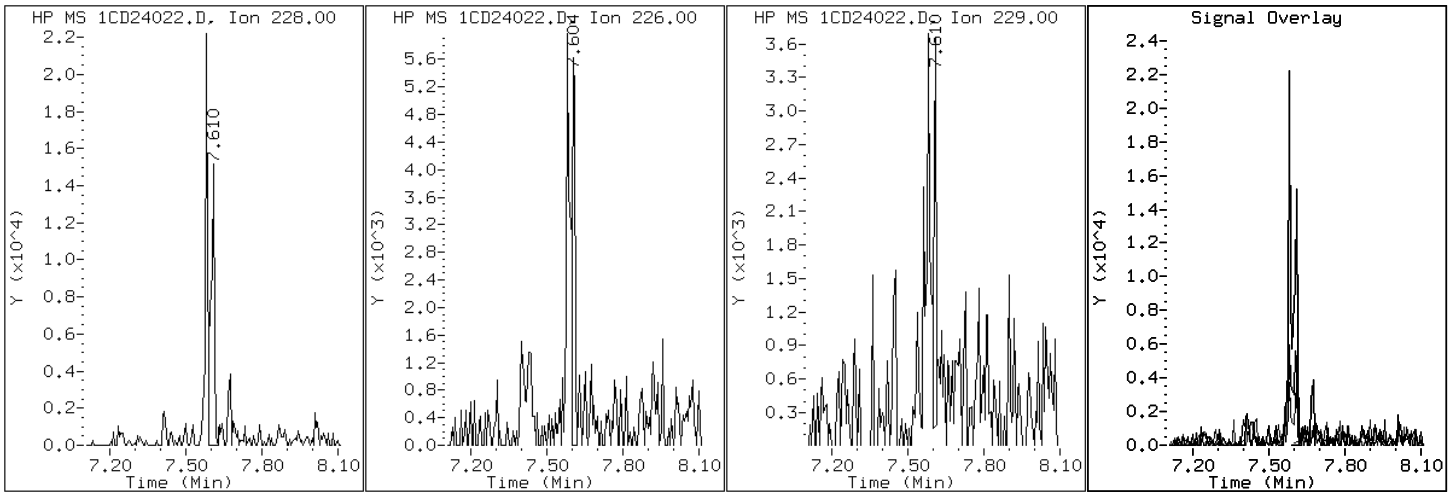
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

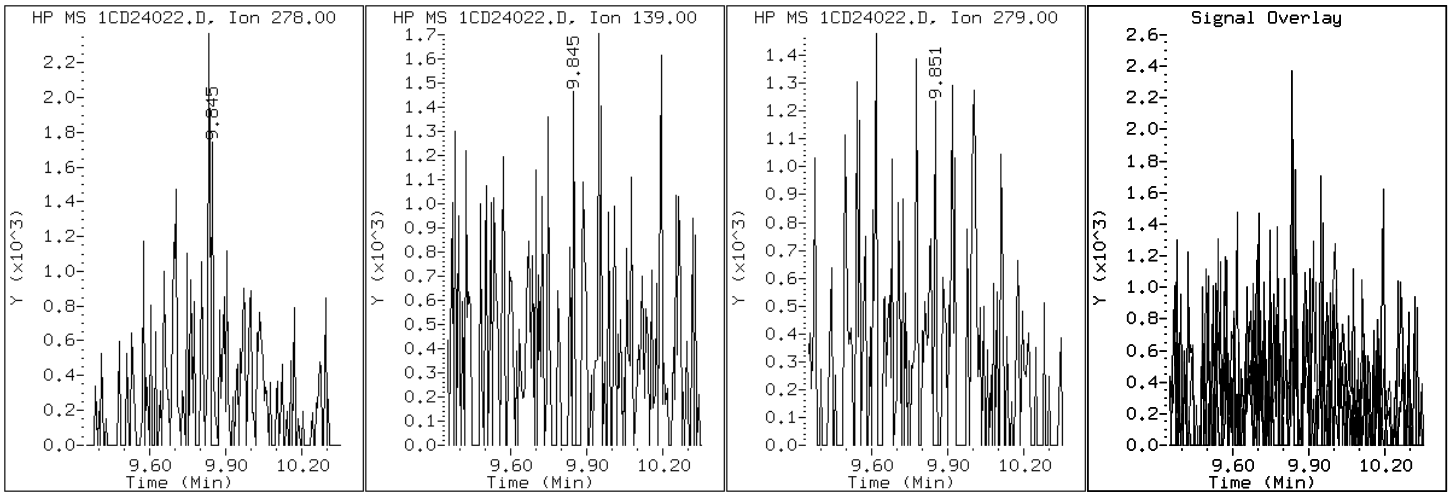
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

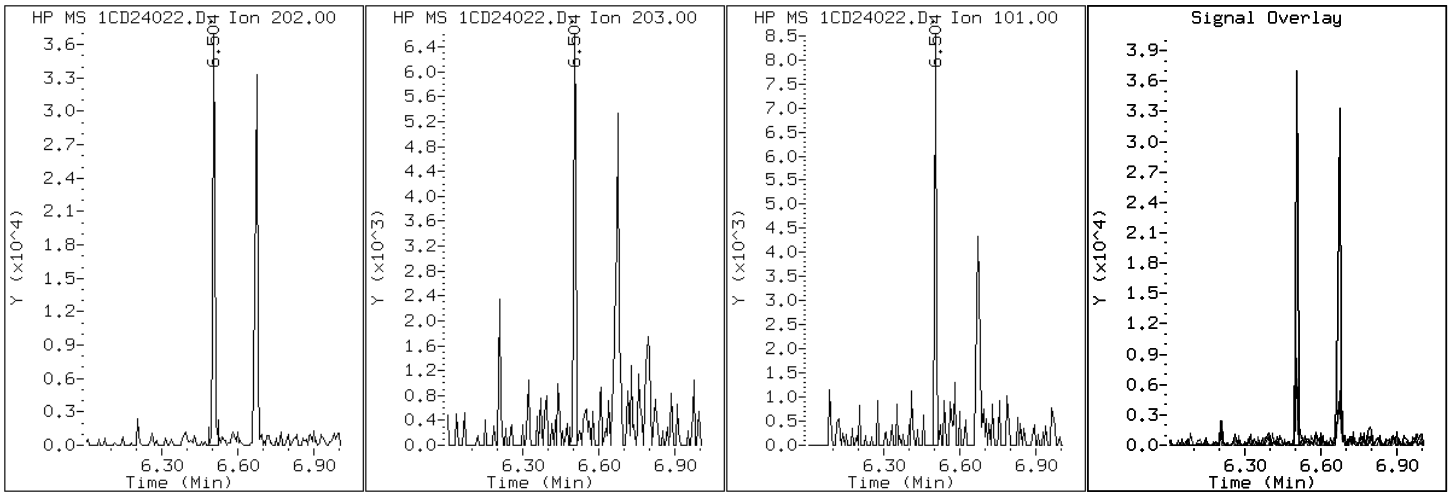
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

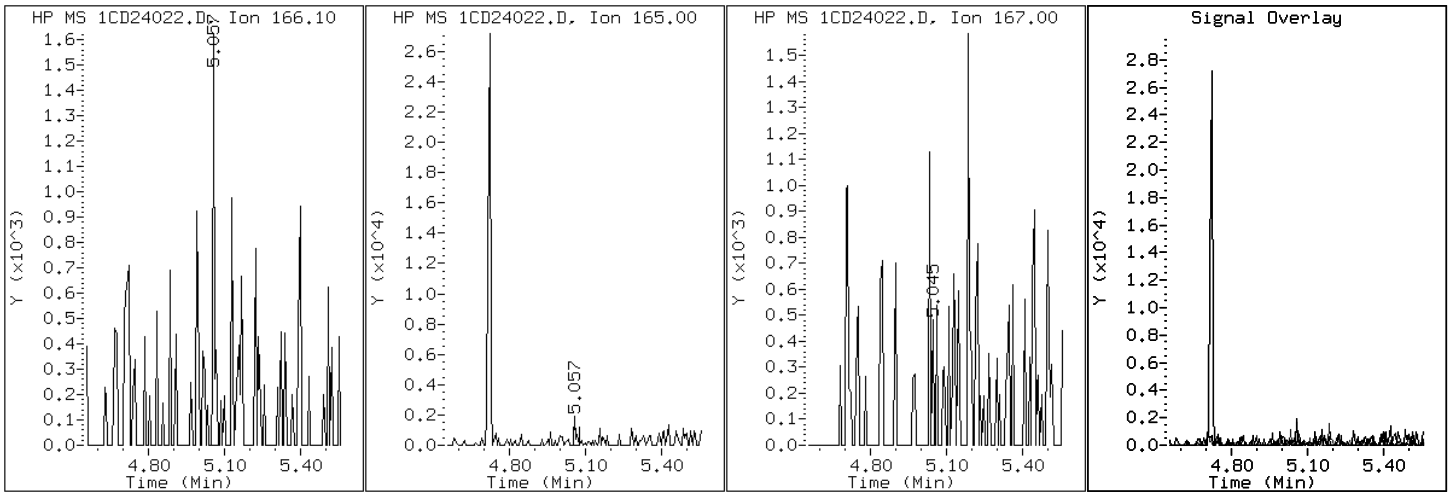
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

9 Fluorene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

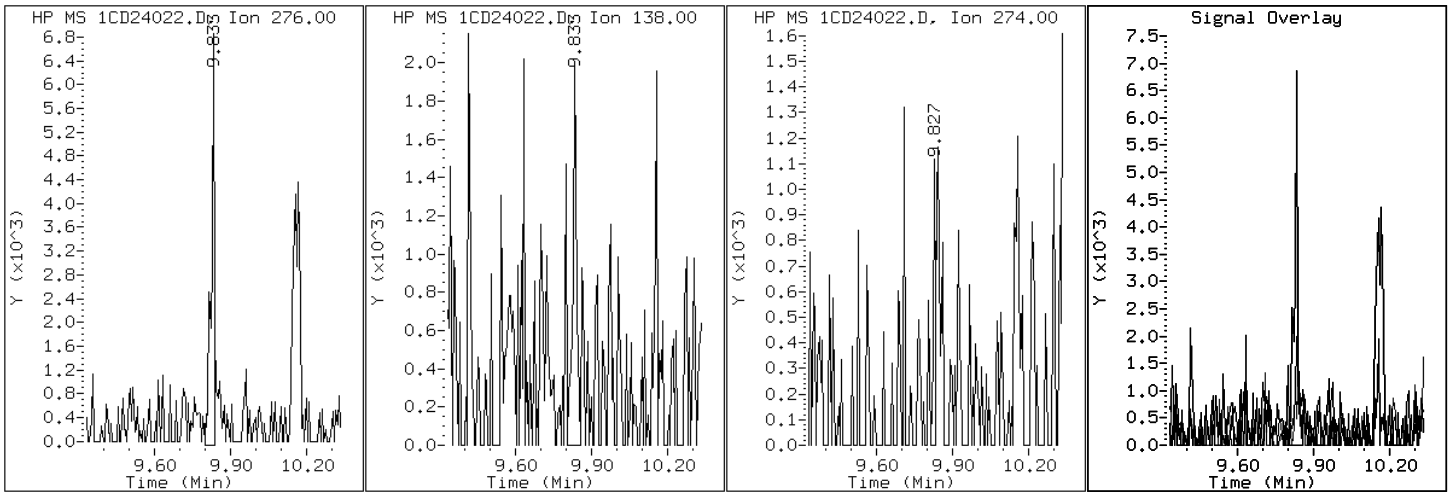
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

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



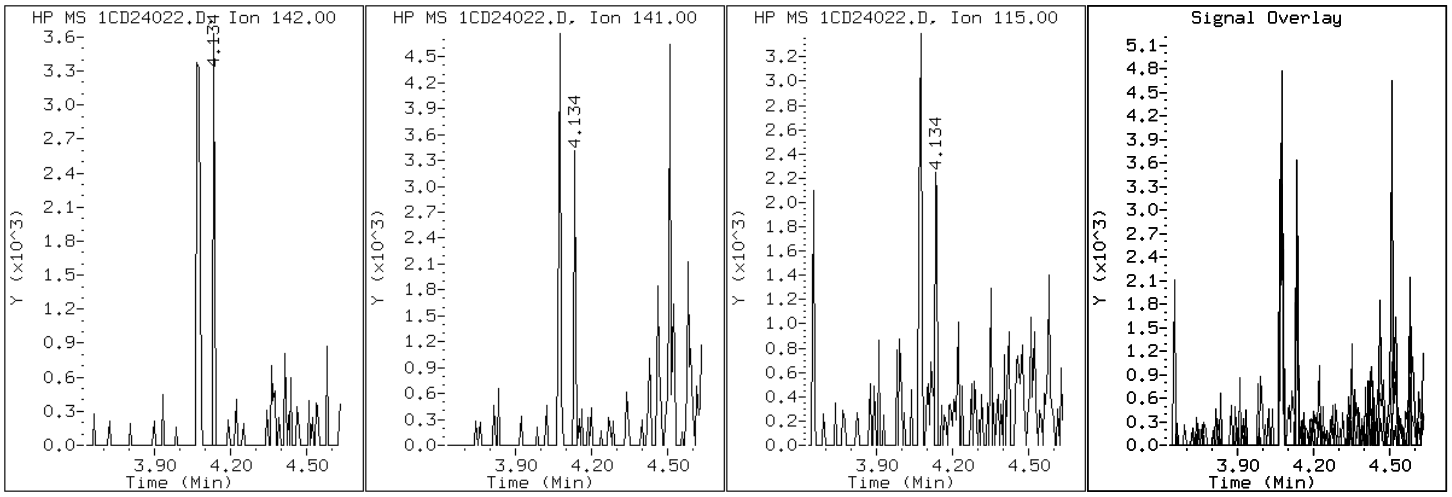
Data File: 1CD24022.D

Date: 24-APR-2013 18:47

Client ID: CV0909B-GS Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a Operator: SCC

4 1-Methylnaphthalene



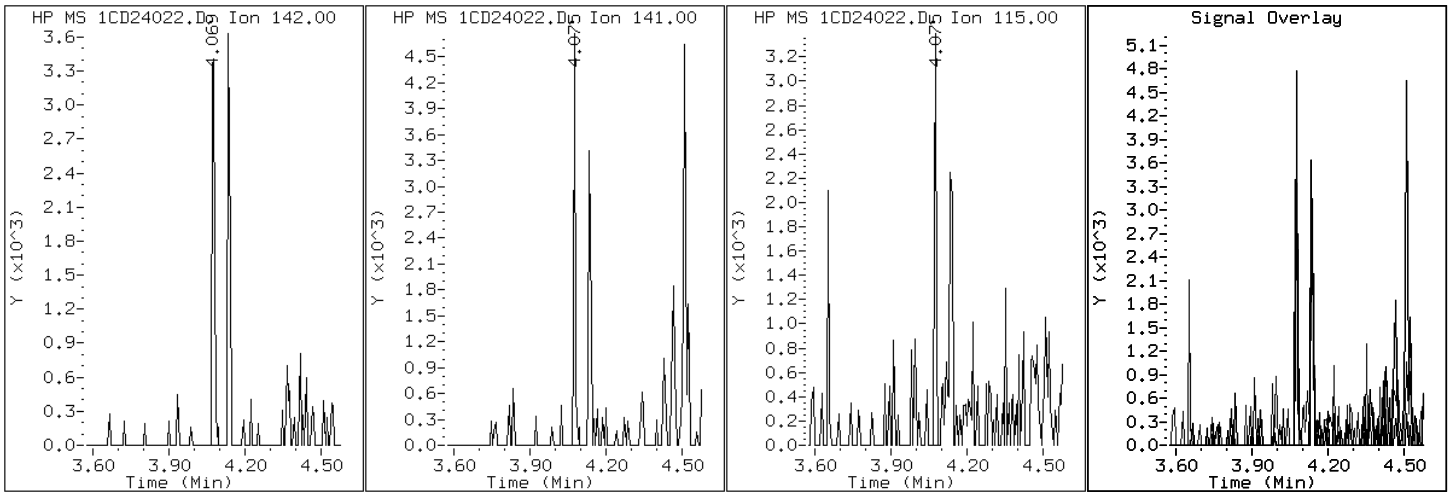
Data File: 1CD24022.D

Date: 24-APR-2013 18:47

Client ID: CV0909B-GS Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

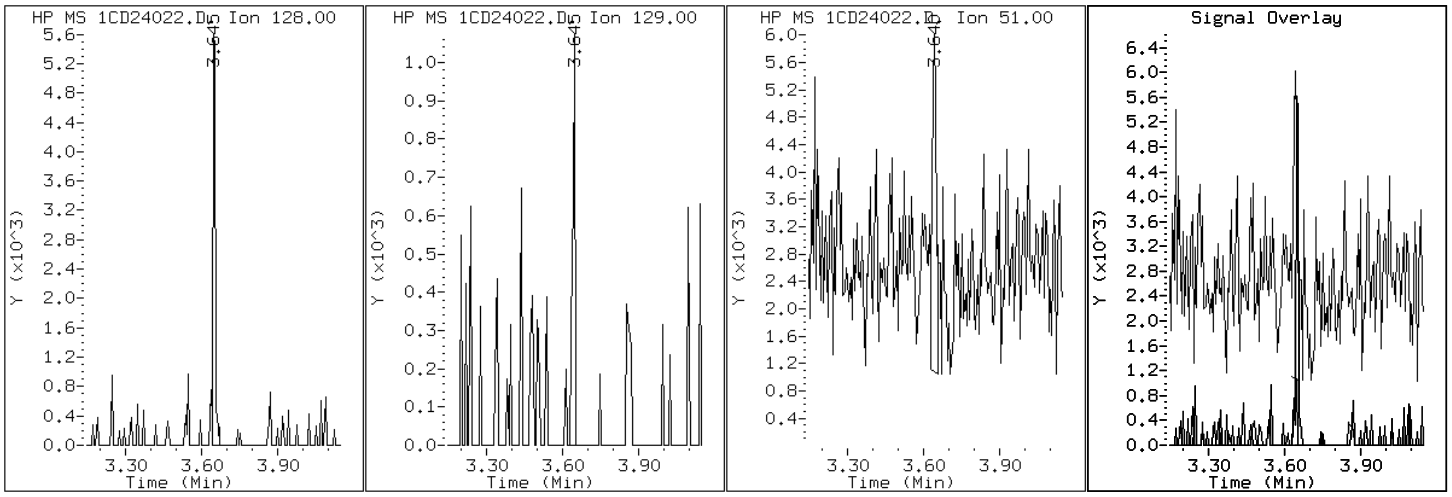
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

2 Naphthalene



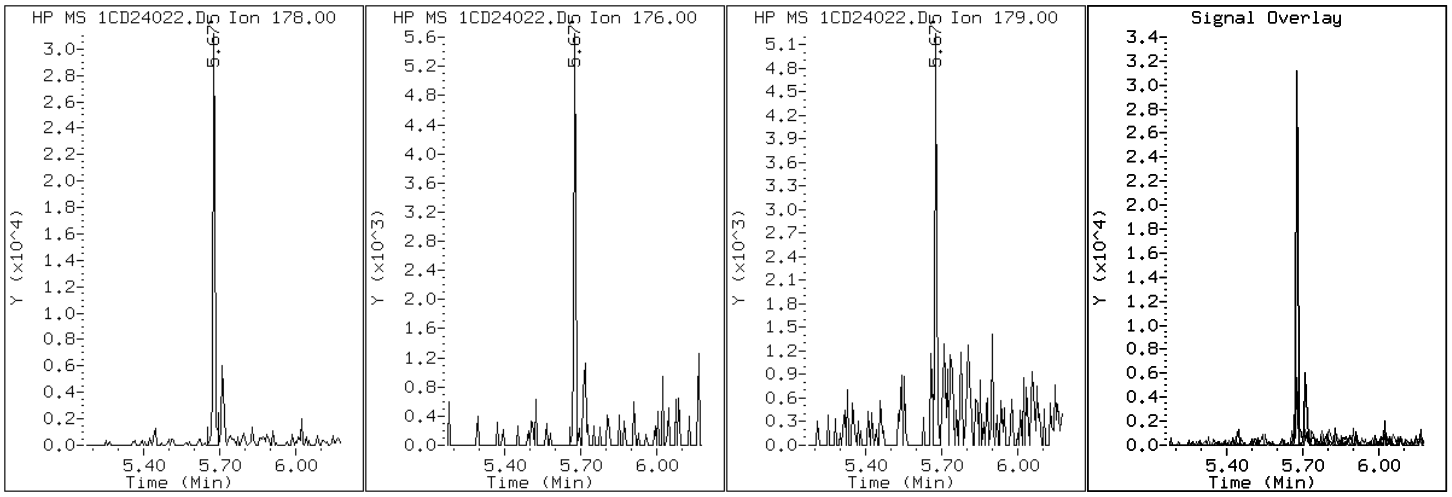
Data File: 1CD24022.D

Date: 24-APR-2013 18:47

Client ID: CV0909B-GS | Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a | Operator: SCC

11 Phenanthrene



Data File: 1CD24022.D

Date: 24-APR-2013 18:47

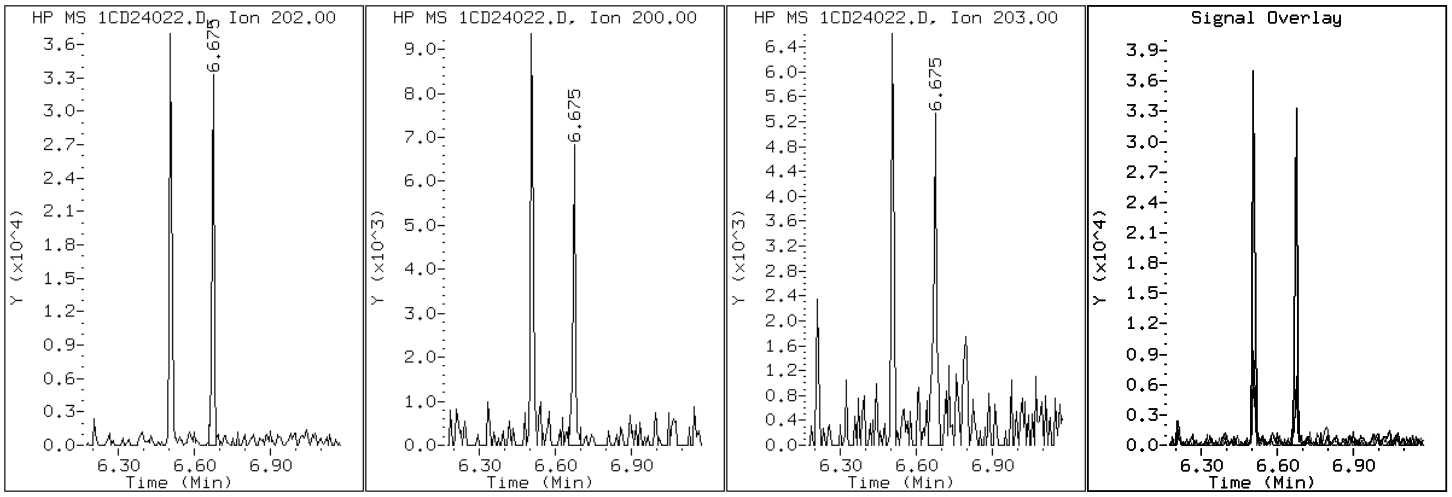
Client ID: CV0909B-GS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-2-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24022.D
Inj. Date and Time: 24-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0909B-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

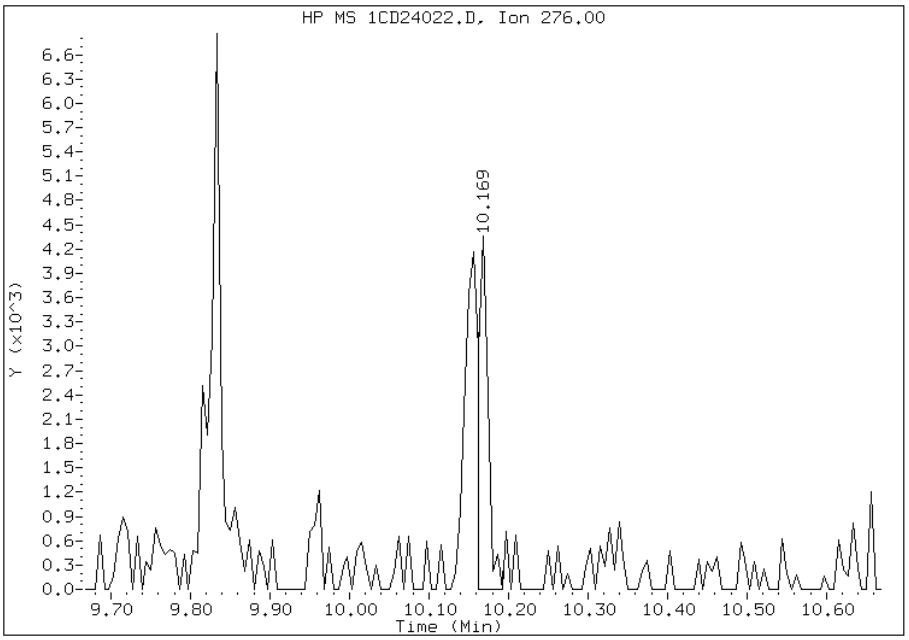
Processing Integration Results

RT: 10.17

Response: 3651

Amount: 1

Conc: 238



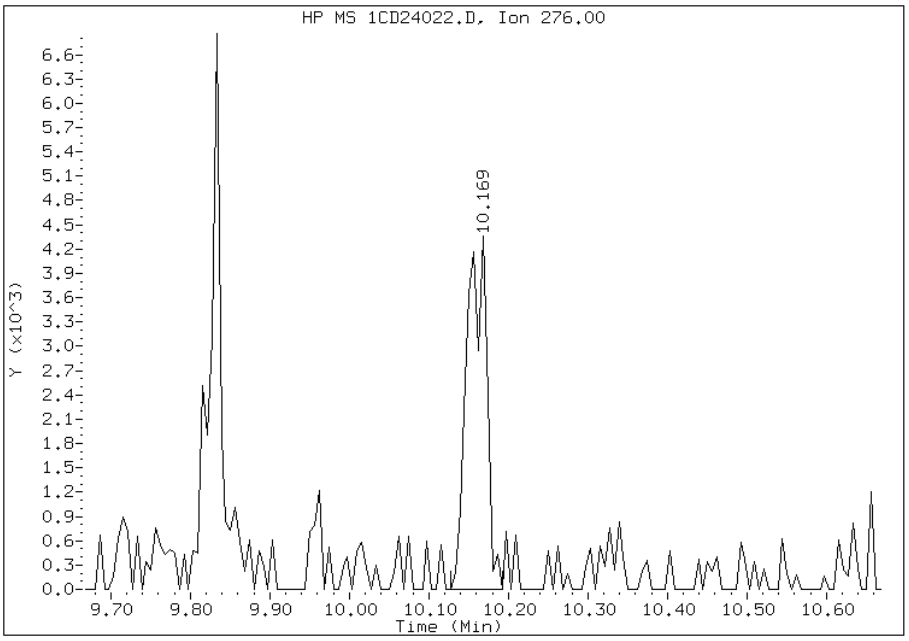
Manual Integration Results

RT: 10.17

Response: 7579

Amount: 1

Conc: 494



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24022.D
Inj. Date and Time: 24-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0909B-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

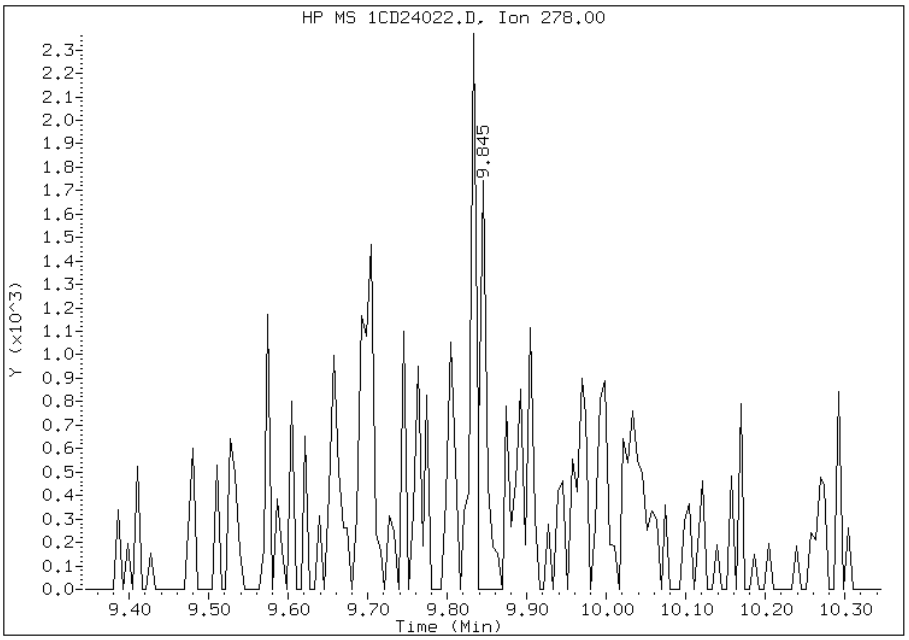
Processing Integration Results

RT: 9.85

Response: 1116

Amount: 0

Conc: 76



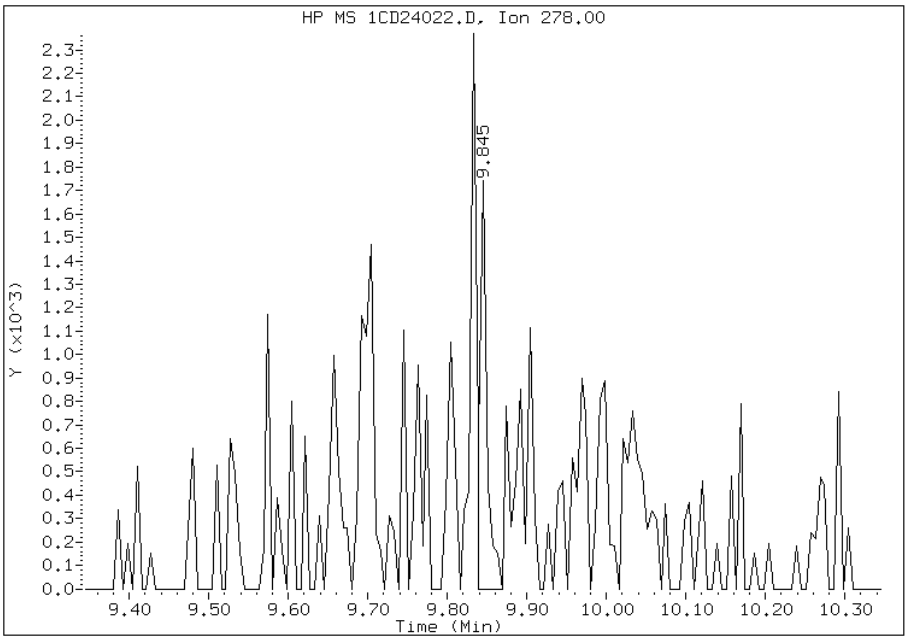
Manual Integration Results

RT: 9.85

Response: 1121

Amount: 0

Conc: 76



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24022.D
Inj. Date and Time: 24-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0909B-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

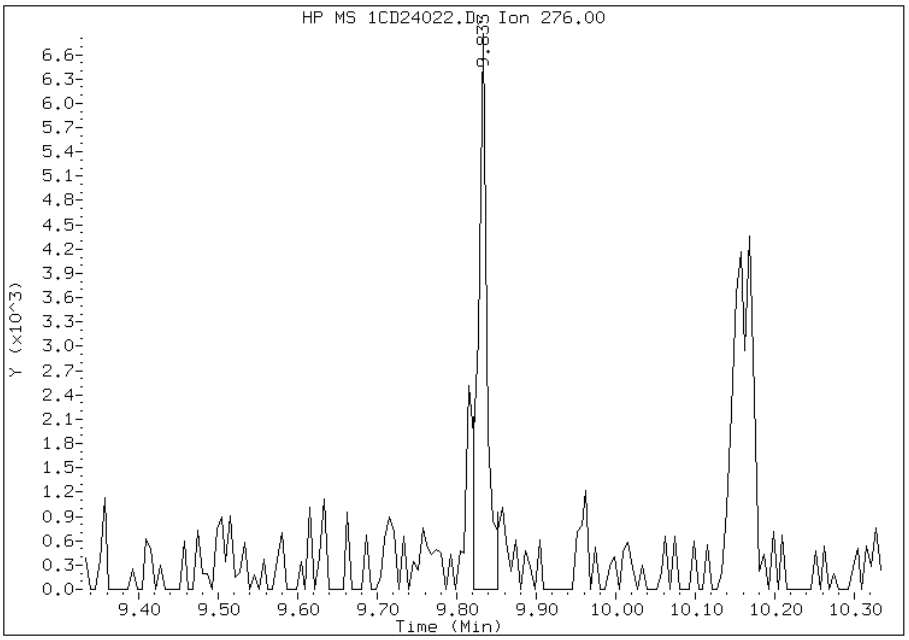
Processing Integration Results

RT: 9.83

Response: 5414

Amount: 1

Conc: 552



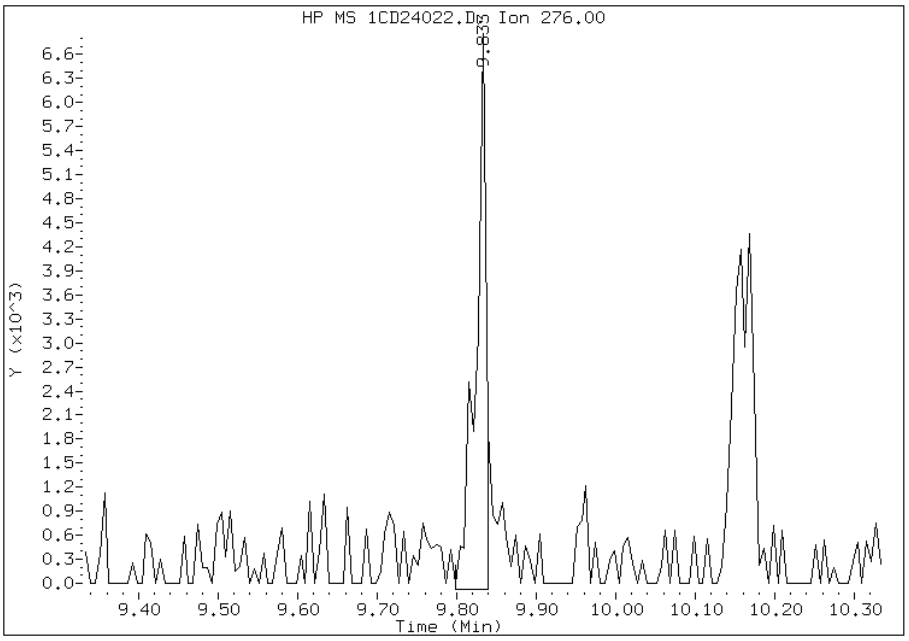
Manual Integration Results

RT: 9.83

Response: 6281

Amount: 2

Conc: 604



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24022.D
Inj. Date and Time: 24-APR-2013 18:47
Instrument ID: BSMC5973.i
Client ID: CV0909B-GS
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 04/25/2013

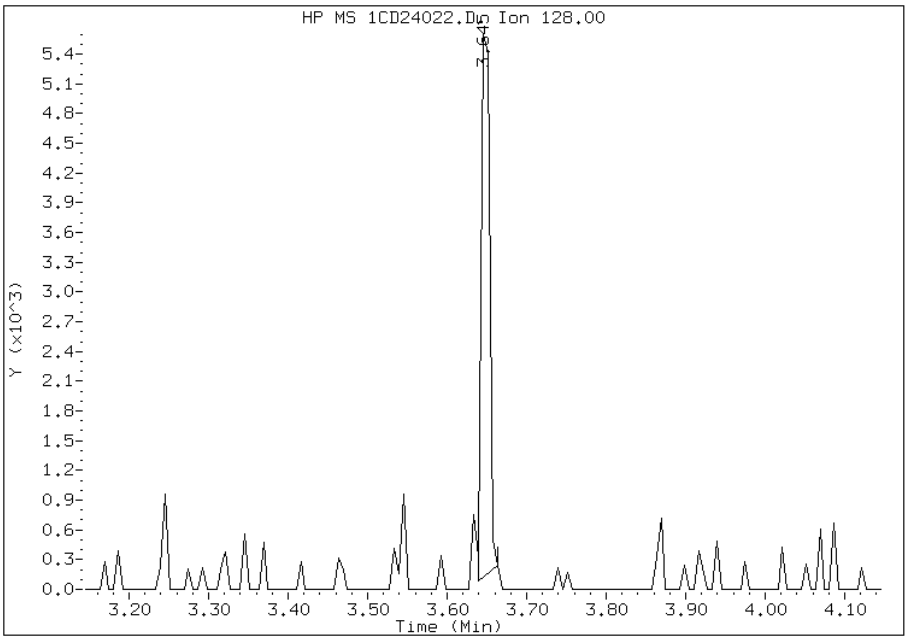
Processing Integration Results

RT: 3.65

Response: 3982

Amount: 1

Conc: 350



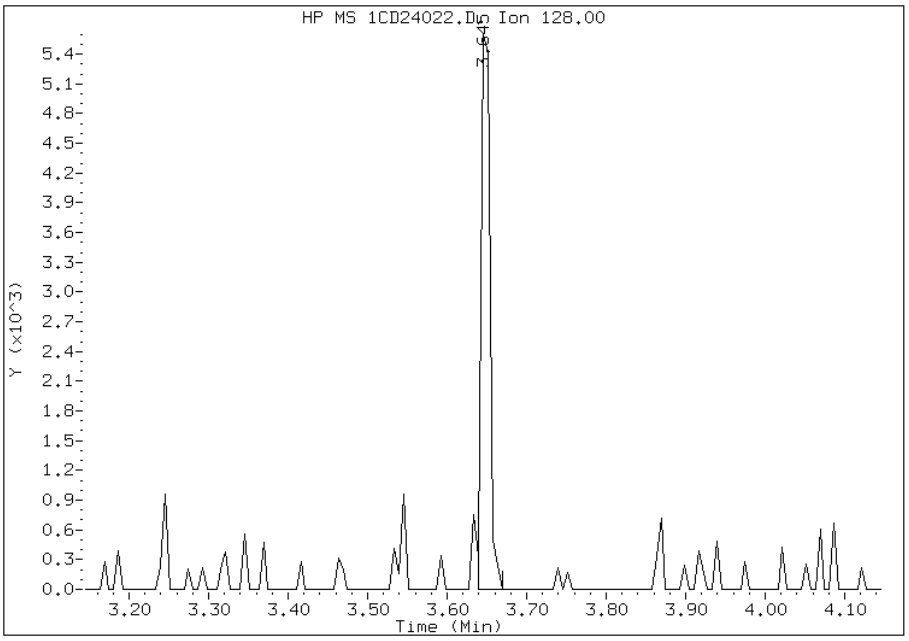
Manual Integration Results

RT: 3.65

Response: 4266

Amount: 1

Conc: 373



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:42
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1176A-CS | Lab Sample ID: 680-89513-3

Matrix: Solid | Lab File ID: 1CD24023.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.92(g) | Date Analyzed: 04/24/2013 19:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	31		10	5.1
56-55-3	Benzo[a]anthracene	88		9.7	4.7
50-32-8	Benzo[a]pyrene	83		13	6.3
205-99-2	Benzo[b]fluoranthene	170		15	7.4
191-24-2	Benzo[g,h,i]perylene	81		24	5.3
207-08-9	Benzo[k]fluoranthene	76		9.7	4.4
218-01-9	Chrysene	130		11	5.5
53-70-3	Dibenz(a,h)anthracene	25		24	5.0
206-44-0	Fluoranthene	130		24	4.9
86-73-7	Fluorene	7.5	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	110		24	8.6
90-12-0	1-Methylnaphthalene	66		49	5.3
91-57-6	2-Methylnaphthalene	120		49	8.6
91-20-3	Naphthalene	72		49	5.3
85-01-8	Phenanthrene	100		9.7	4.7
129-00-0	Pyrene	120		24	4.5

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\1C042413.b\1CD24023.D
Lab Smp Id: 680-89513-A-3-A Client Smp ID: CV1176A-CS
Inj Date : 24-APR-2013 19:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-3-a
Misc Info : 680-89513-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 19
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	17.226	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	141908	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	101147	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.663	(1.000)	192922	40.0000	
$ 14 o-Terphenyl	230	5.909	5.910	(1.044)	20591	7.35125	595.2485
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	228207	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	217203	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	3304	0.88323	71.5174
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	2613	1.52604	123.5671
4 1-Methylnaphthalene	142	4.139	4.134	(1.139)	1815	0.81345	65.8669
9 Fluorene	166	5.057	5.057	(1.071)	332	0.09314	7.5414(Q)
11 Phenanthrene	178	5.674	5.675	(1.002)	6636	1.25628	101.7238
12 Anthracene	178	5.709	5.710	(1.008)	1405	0.38367	31.0663
13 Carbazole	167	5.815	5.822	(1.027)	1161	0.21867	17.7060(Q)
15 Fluoranthene	202	6.504	6.504	(1.149)	10600	1.63646	132.5080

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.674	6.675	(0.879)	10199	1.51326	122.5325
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	6979	1.09166	88.3945
19 Chrysene	228	7.603	7.610	(1.002)	10658	1.63552	132.4320
20 Benzo(b)fluoranthene	252	8.403	8.410	(0.962)	12428	2.06886	167.5207(M)
21 Benzo(k)fluoranthene	252	8.415	8.428	(0.964)	5455	0.93328	75.5698(QM)
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	4756	1.01963	82.5621
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.125)	4353	1.33907	108.4275(M)
25 Dibenzo(a,h)anthracene	278	9.850	9.851	(1.128)	1609	0.30549	24.7366(QM)
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	5509	1.00450	81.3369(M)

QC Flag Legend

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

Data File: 1CD24023.D

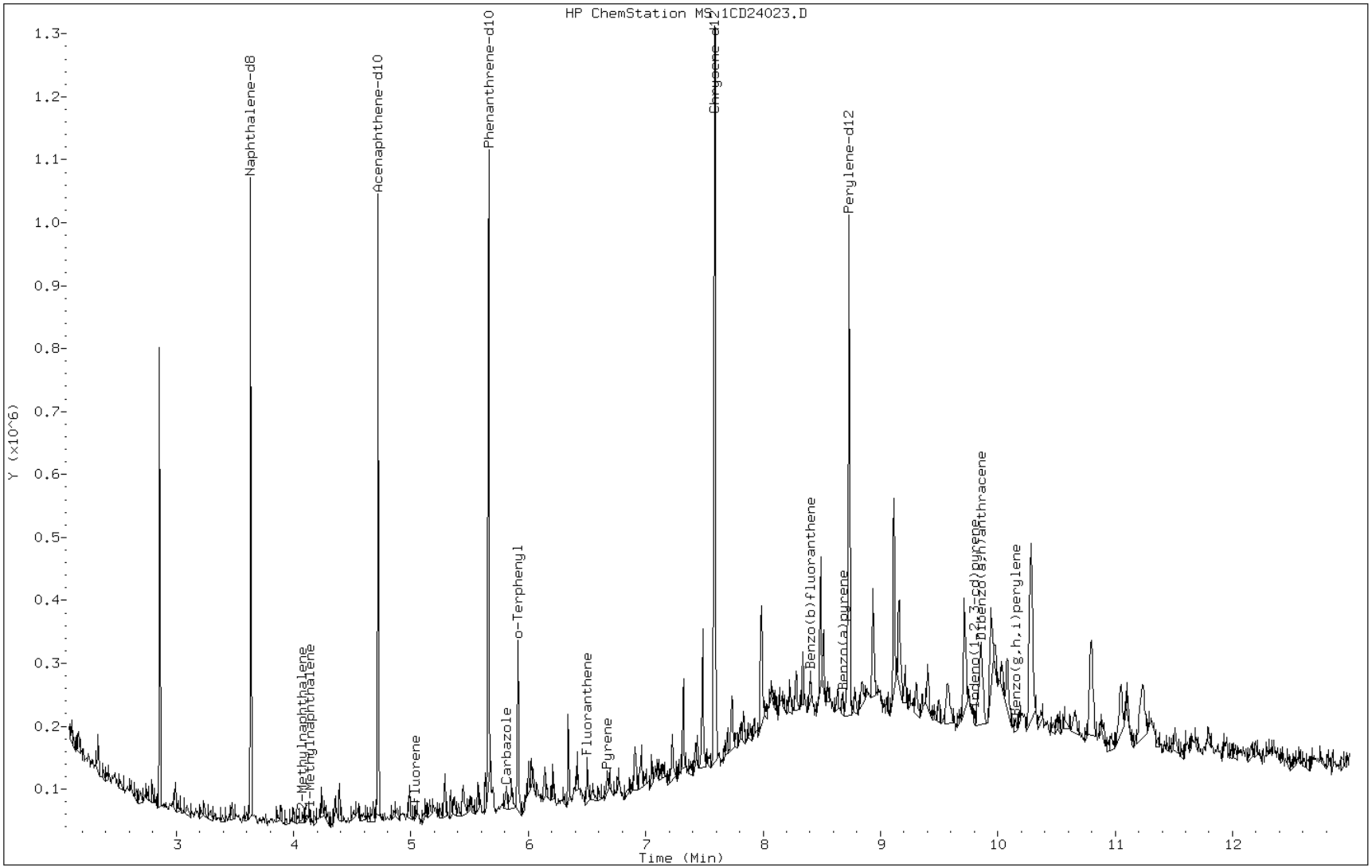
Date: 24-APR-2013 19:05

Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

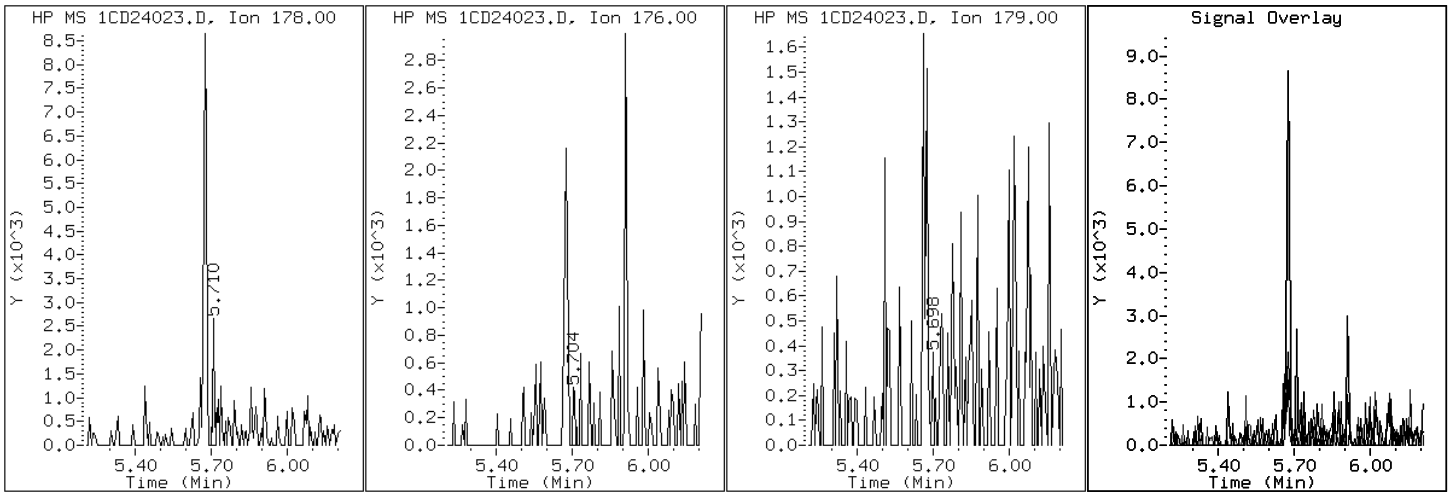
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

12 Anthracene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

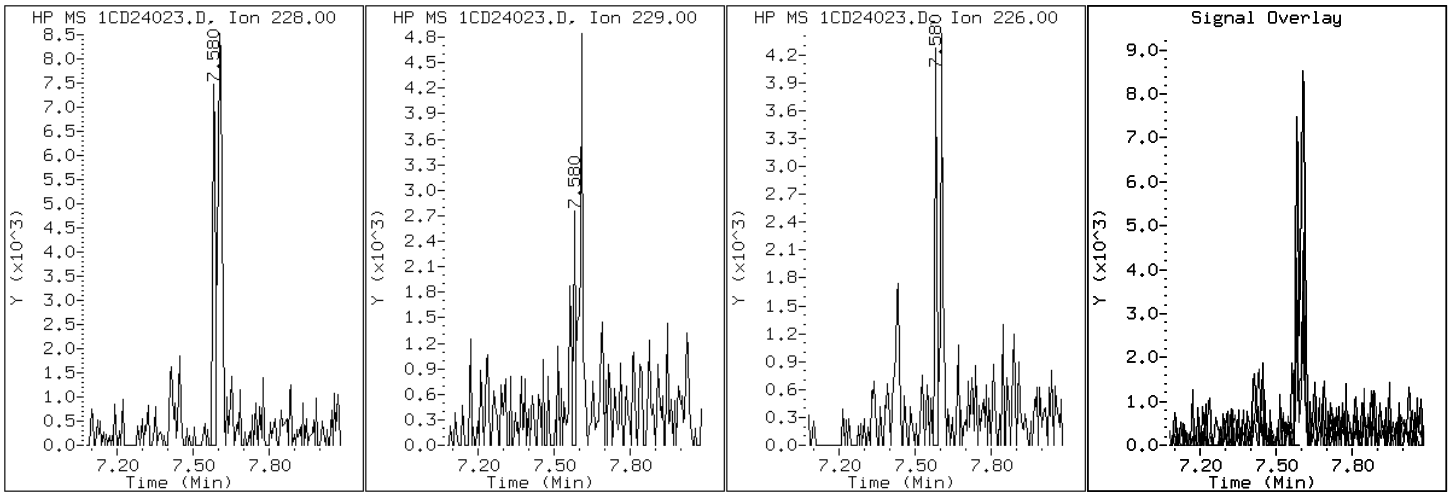
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

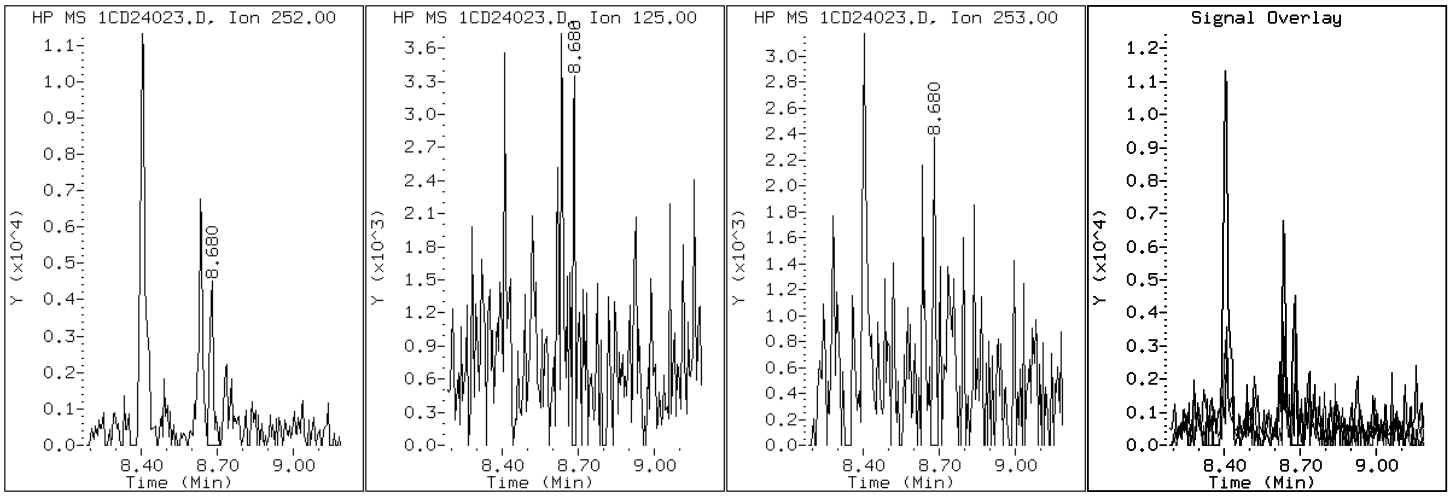
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

22 Benzo(a)pyrene



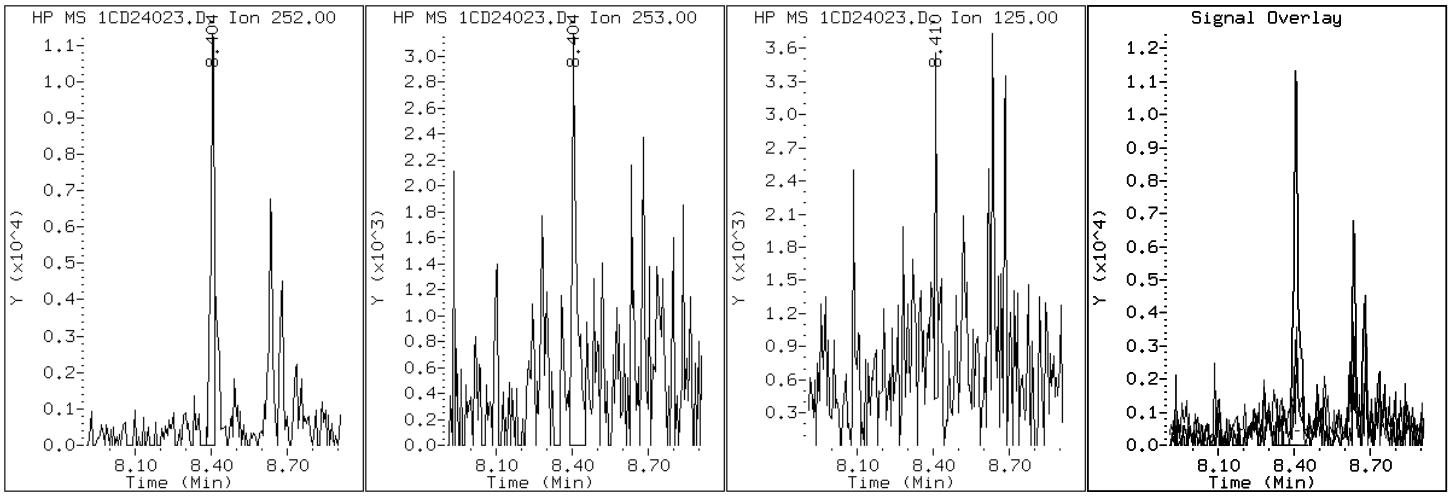
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

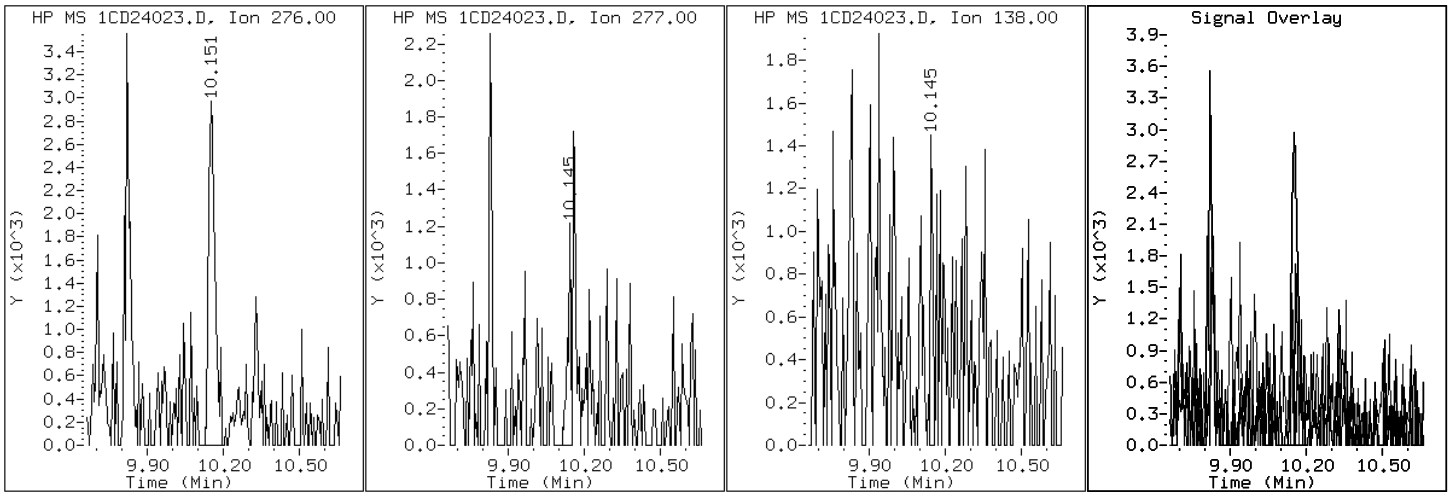
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



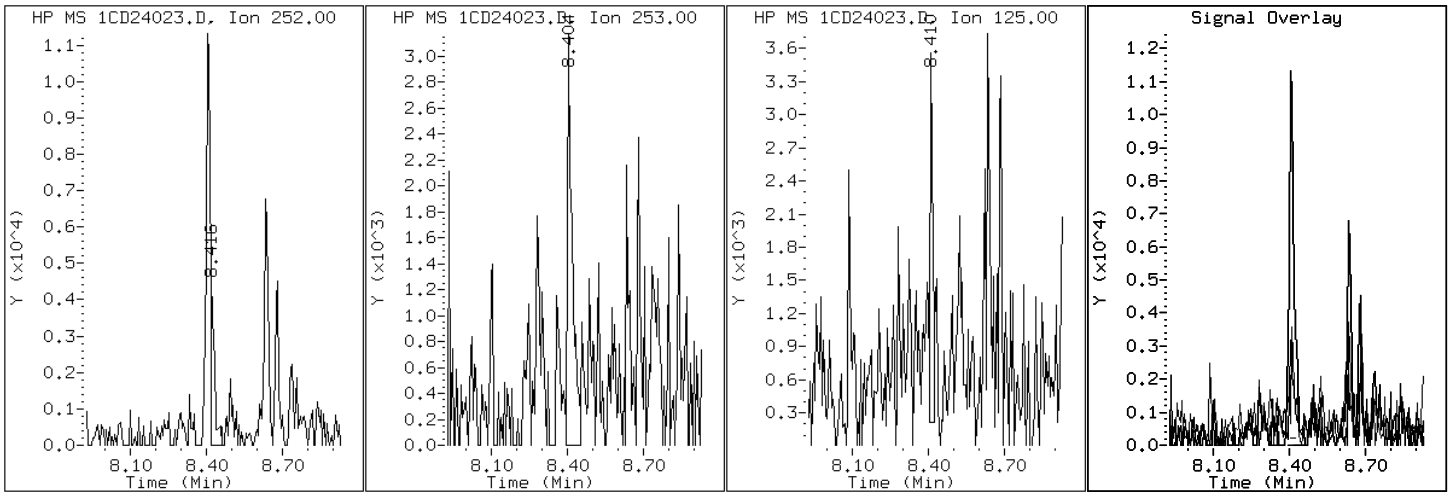
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



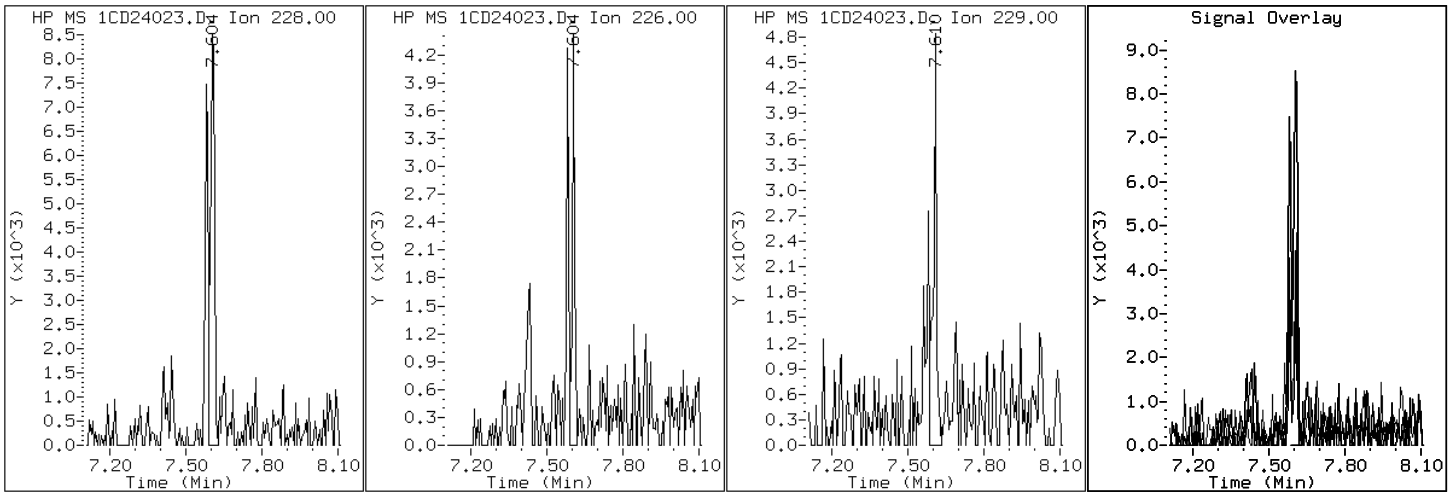
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

19 Chrysene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

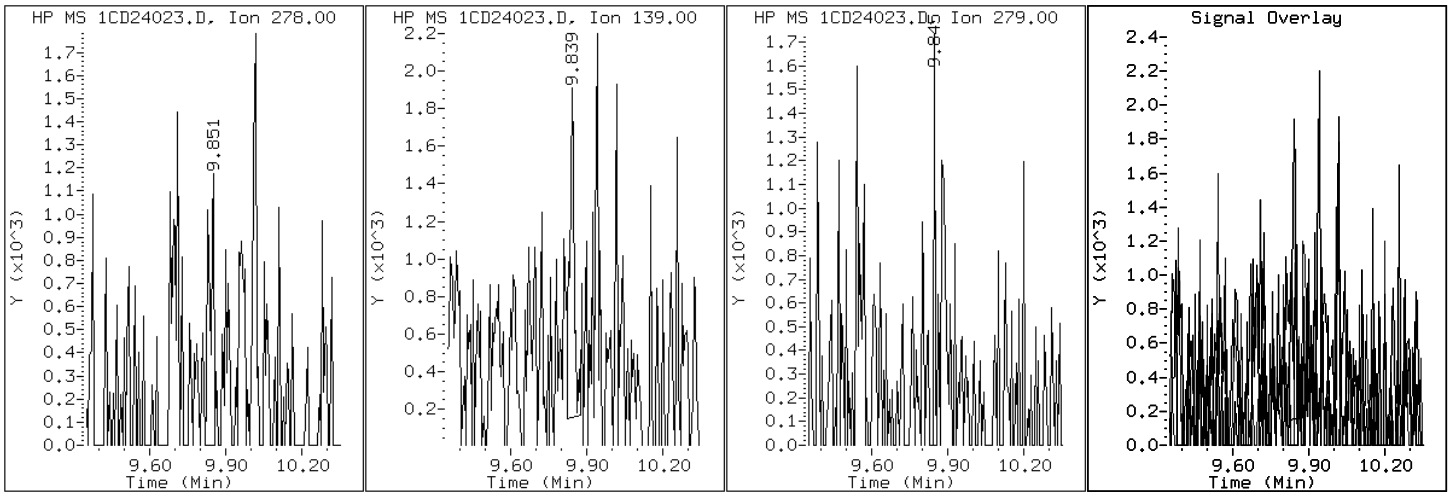
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

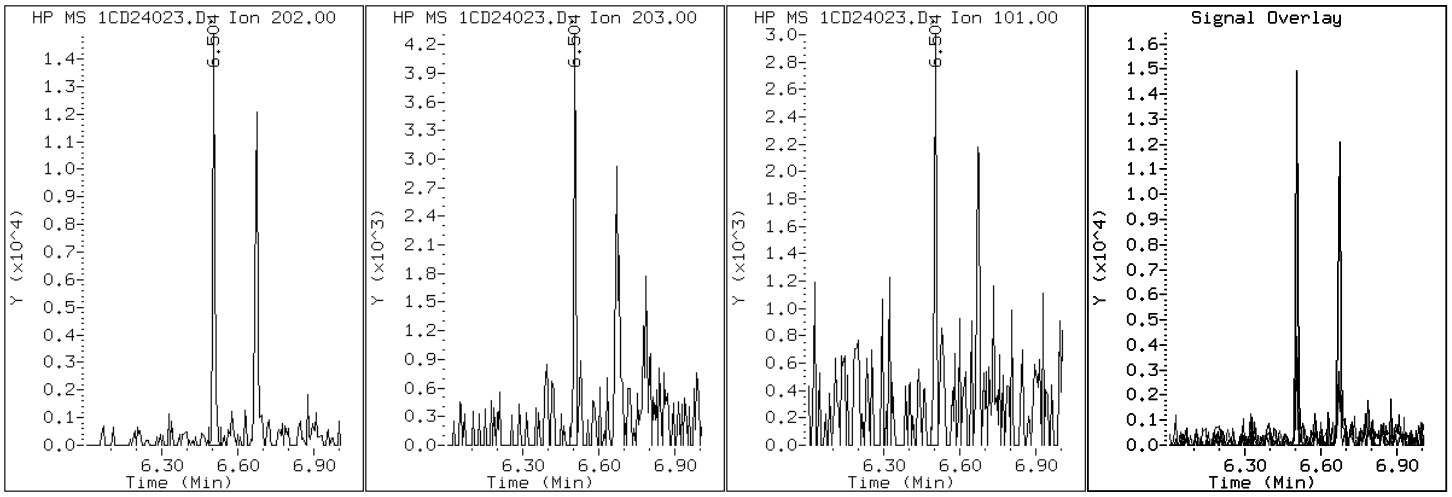
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

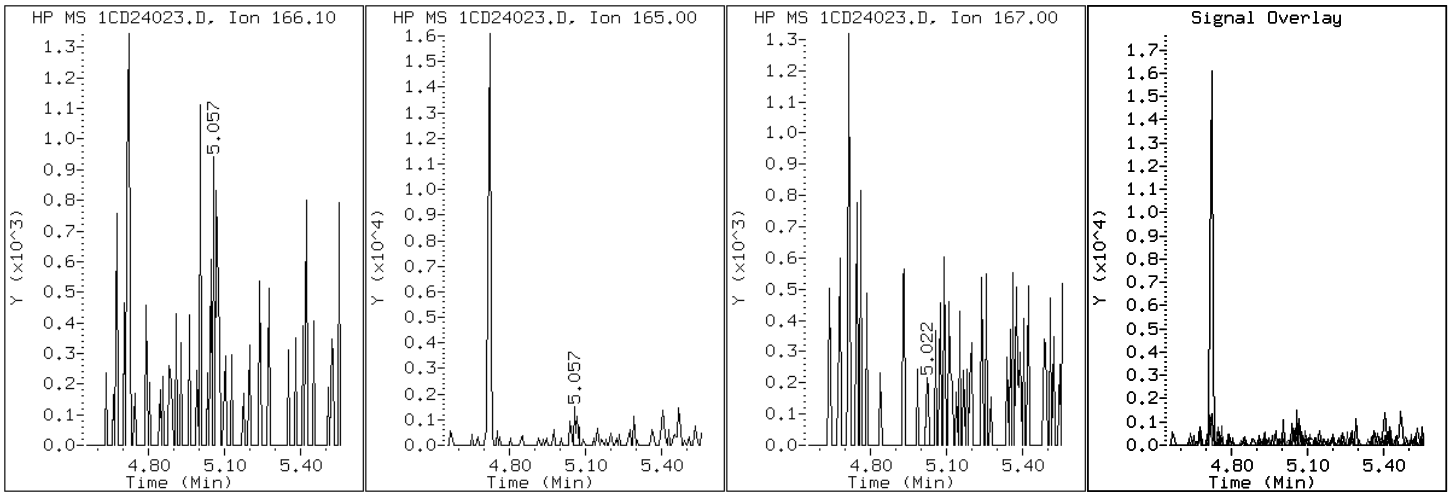
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

9 Fluorene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

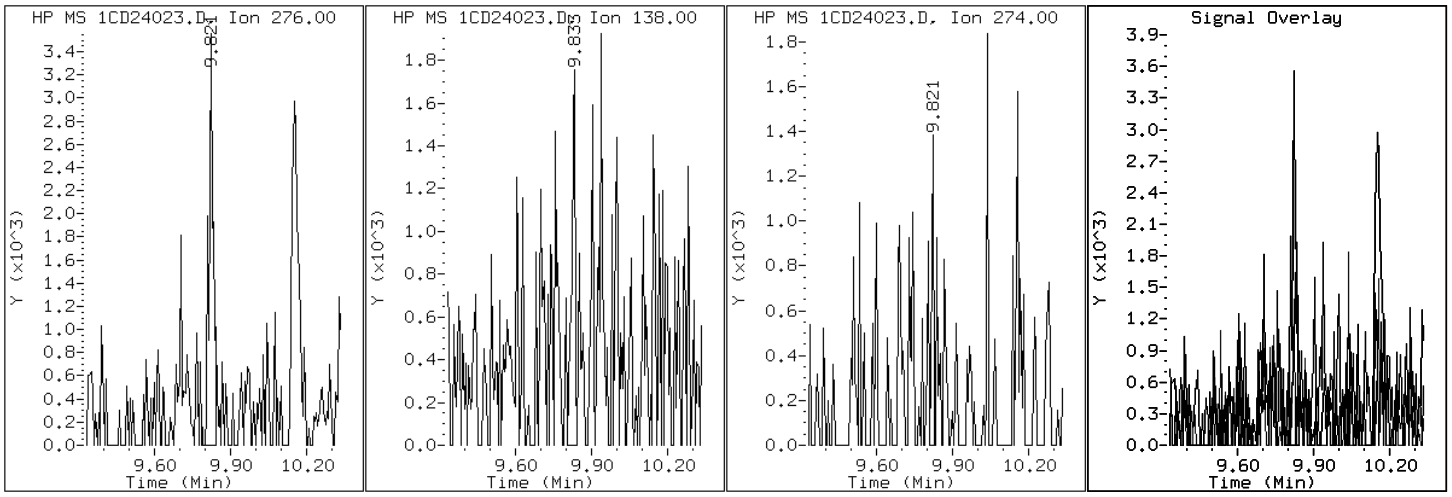
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

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



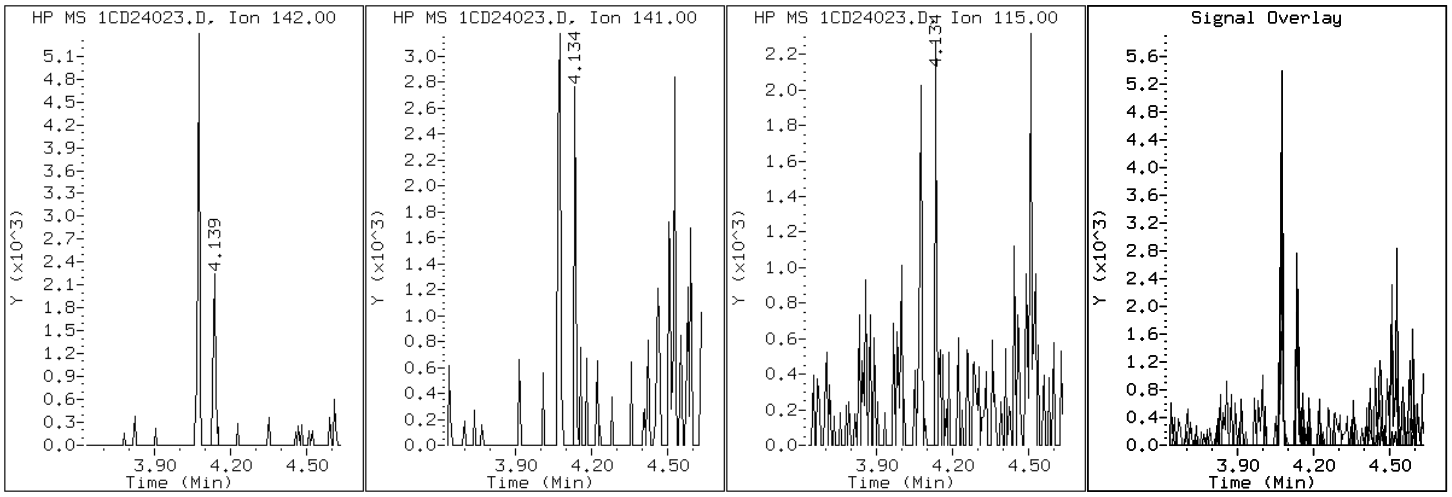
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24023.D

Date: 24-APR-2013 19:05

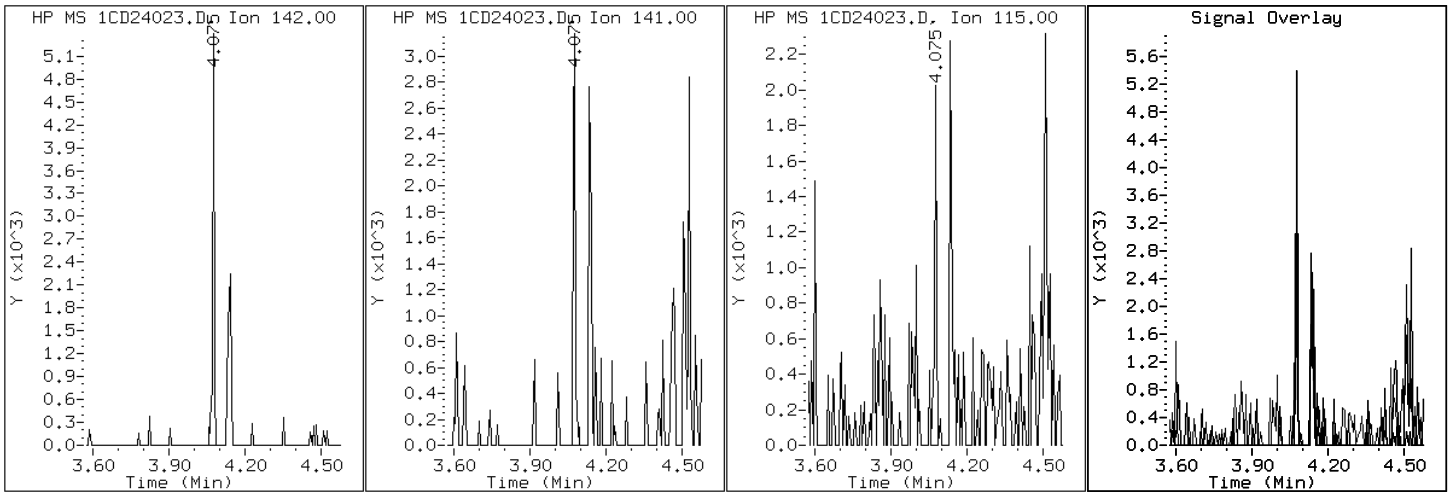
Client ID: CV1176A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a

Operator: SCC

3 2-Methylnaphthalene



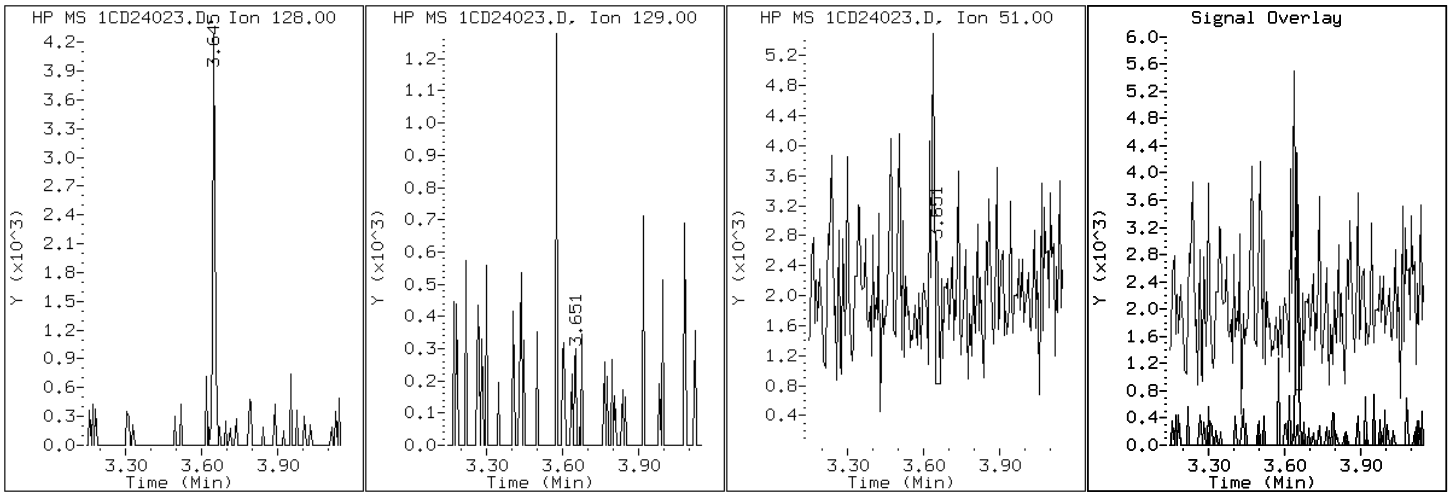
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

2 Naphthalene



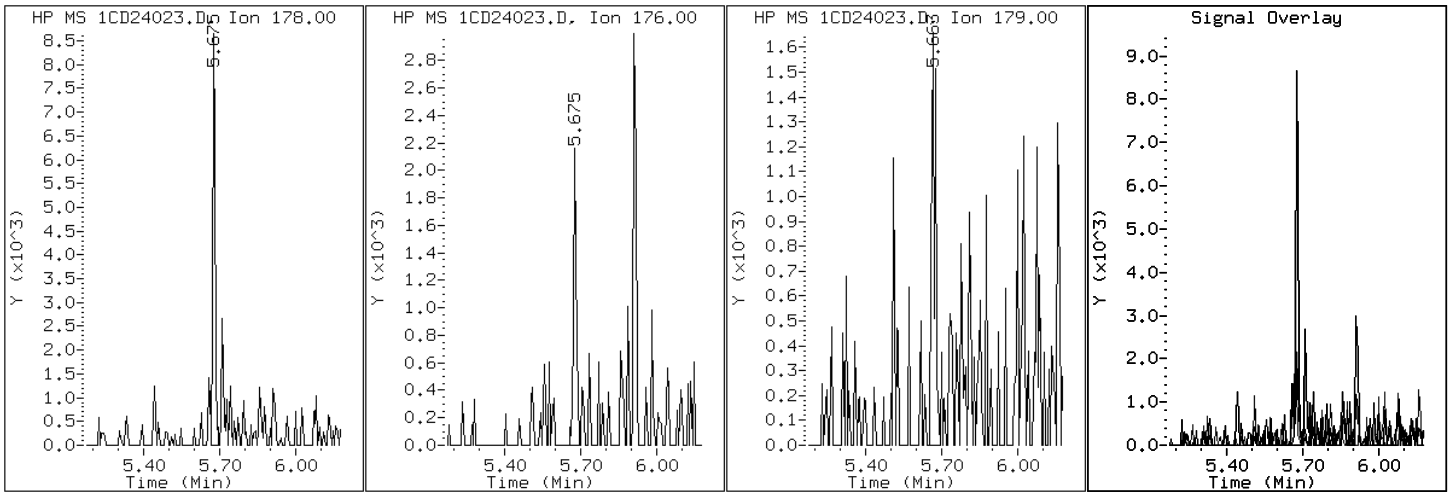
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

11 Phenanthrene



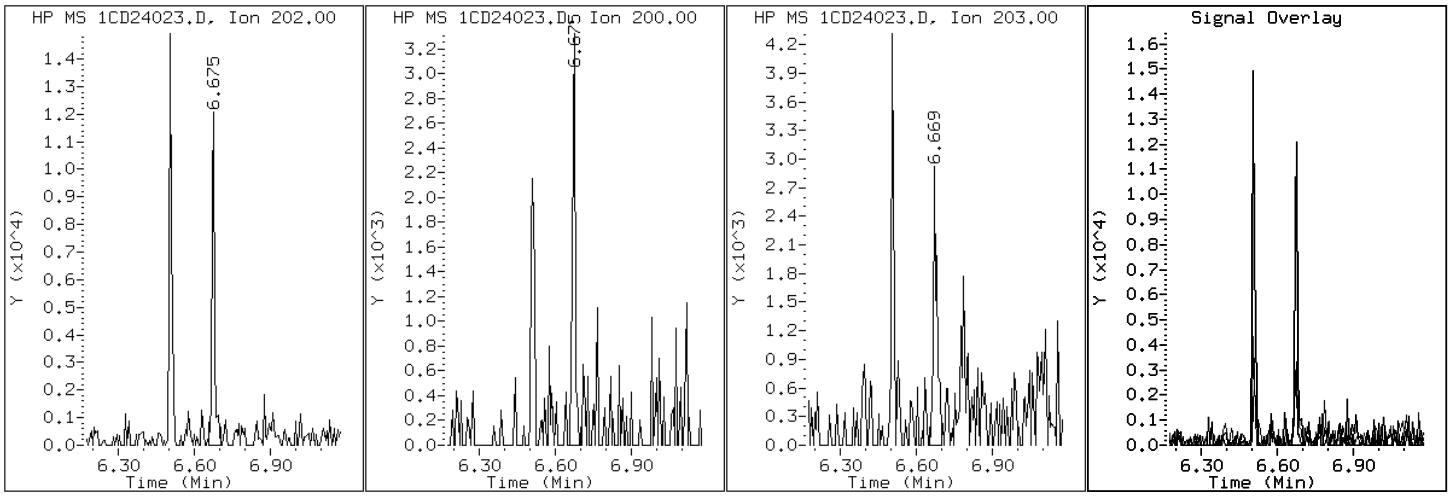
Data File: 1CD24023.D

Date: 24-APR-2013 19:05

Client ID: CV1176A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24023.D
Inj. Date and Time: 24-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV1176A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

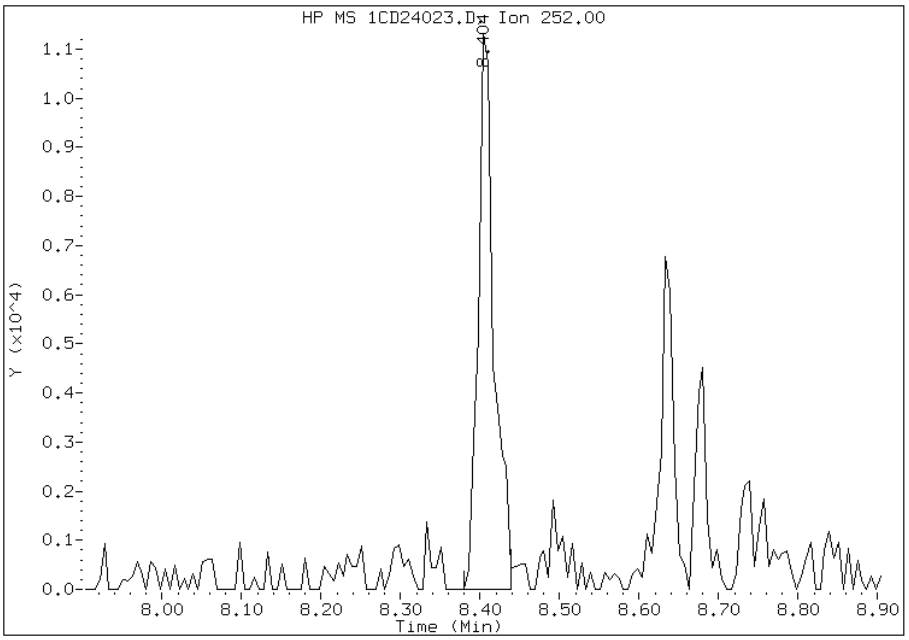
Processing Integration Results

RT: 8.40

Response: 15733

Amount: 3

Conc: 212



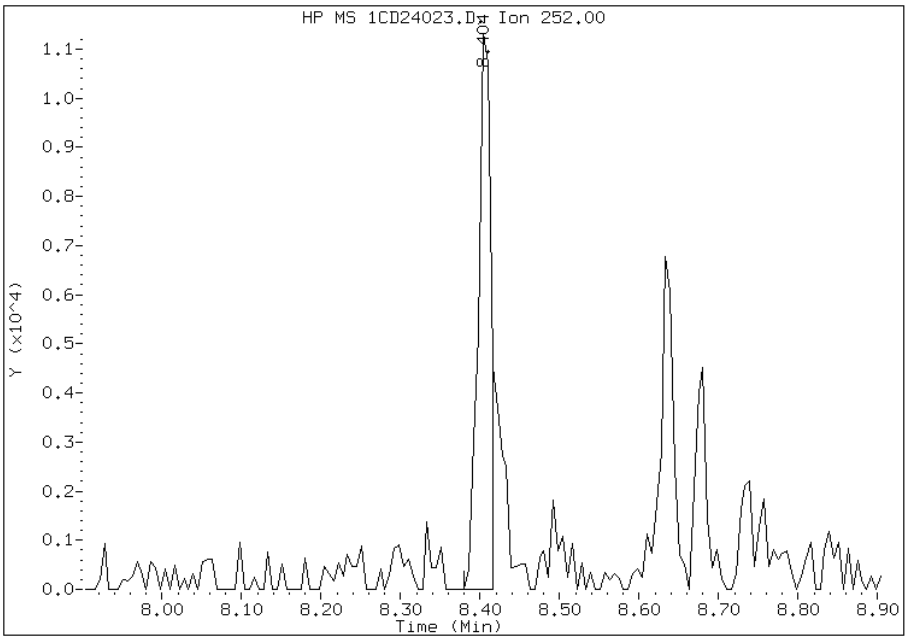
Manual Integration Results

RT: 8.40

Response: 12428

Amount: 2

Conc: 168



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24023.D
Inj. Date and Time: 24-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV1176A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

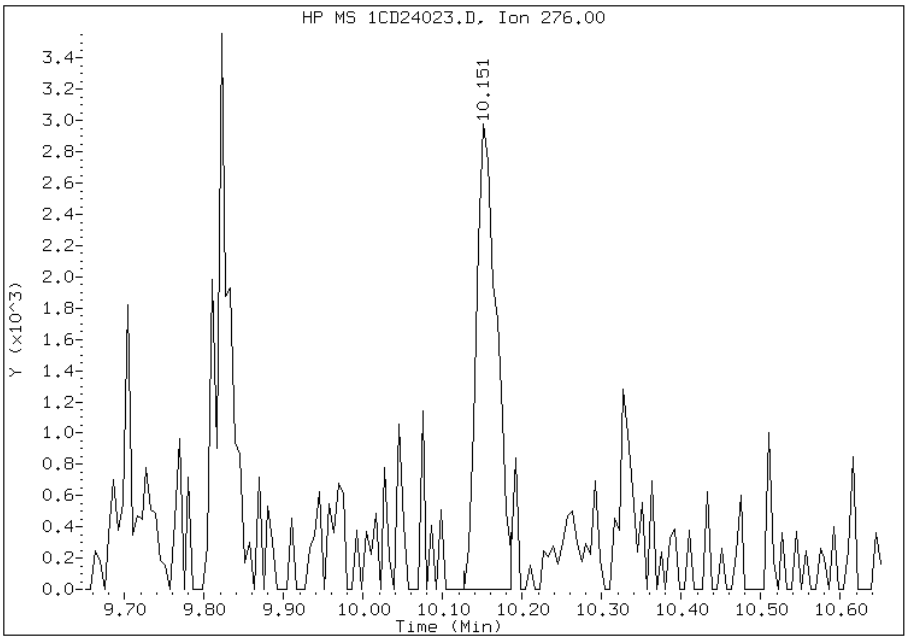
Processing Integration Results

RT: 10.15

Response: 5210

Amount: 1

Conc: 77



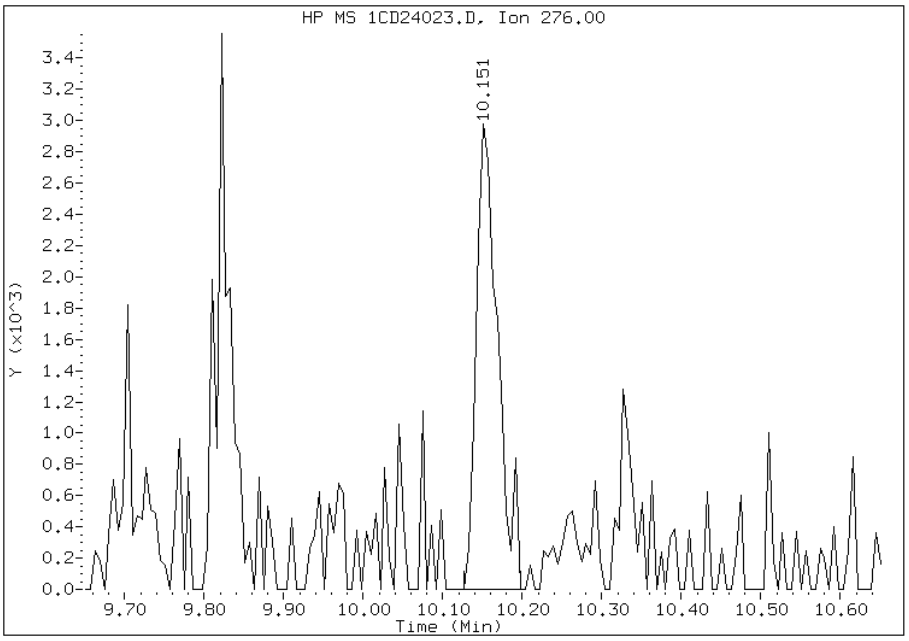
Manual Integration Results

RT: 10.15

Response: 5509

Amount: 1

Conc: 81



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24023.D
Inj. Date and Time: 24-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV1176A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

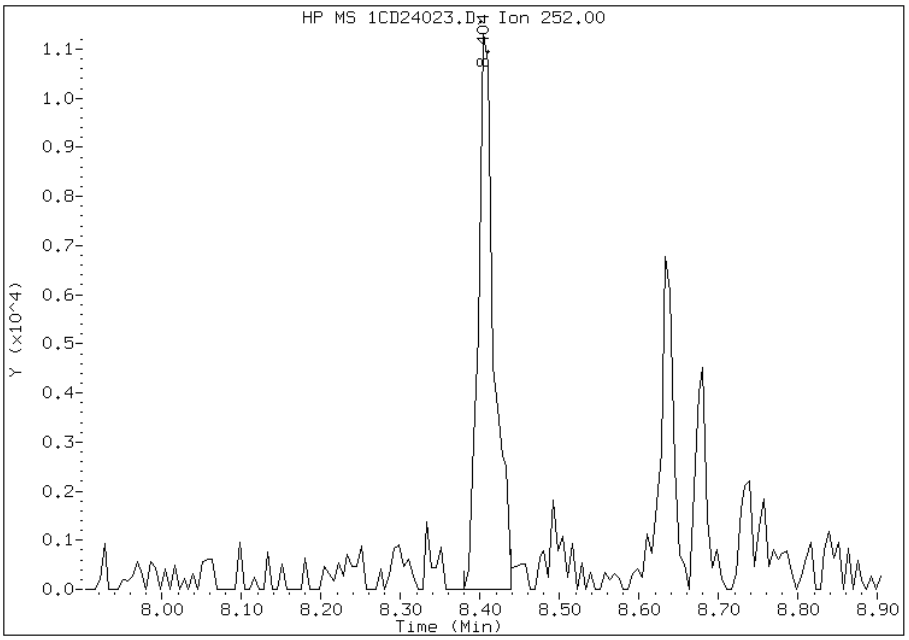
Processing Integration Results

RT: 8.40

Response: 15733

Amount: 3

Conc: 218



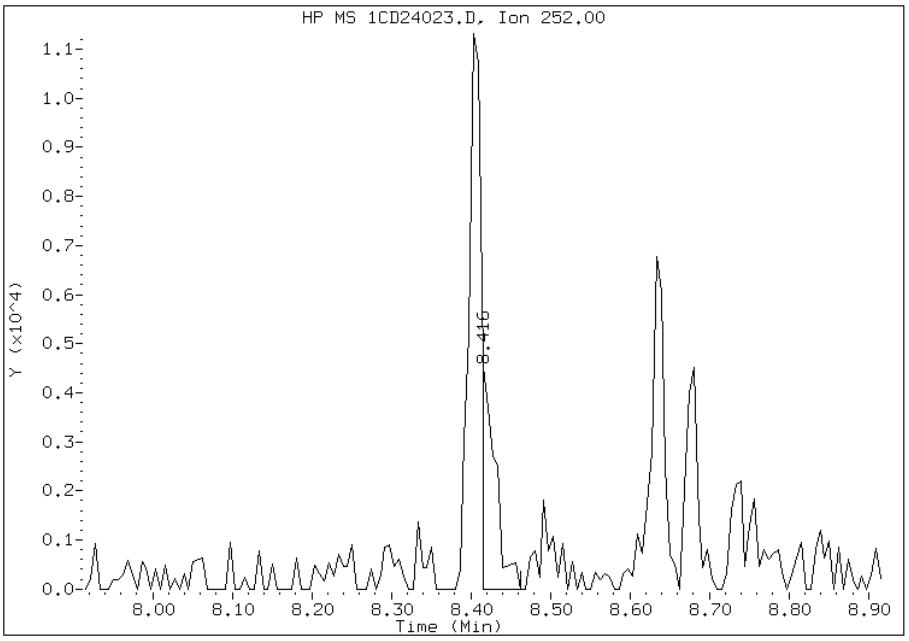
Manual Integration Results

RT: 8.42

Response: 5455

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24023.D
Inj. Date and Time: 24-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV1176A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

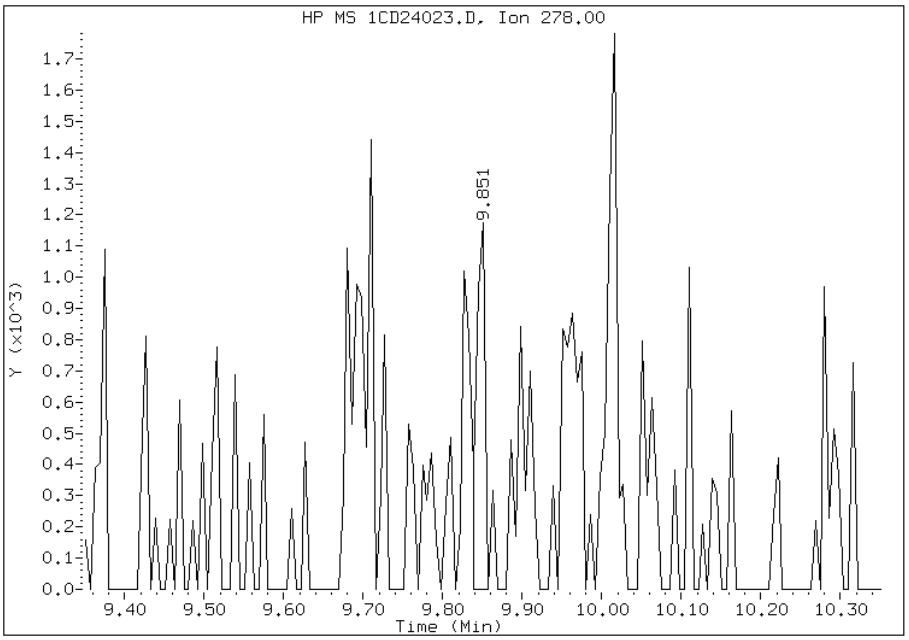
Processing Integration Results

RT: 9.85

Response: 891

Amount: 0

Conc: 14



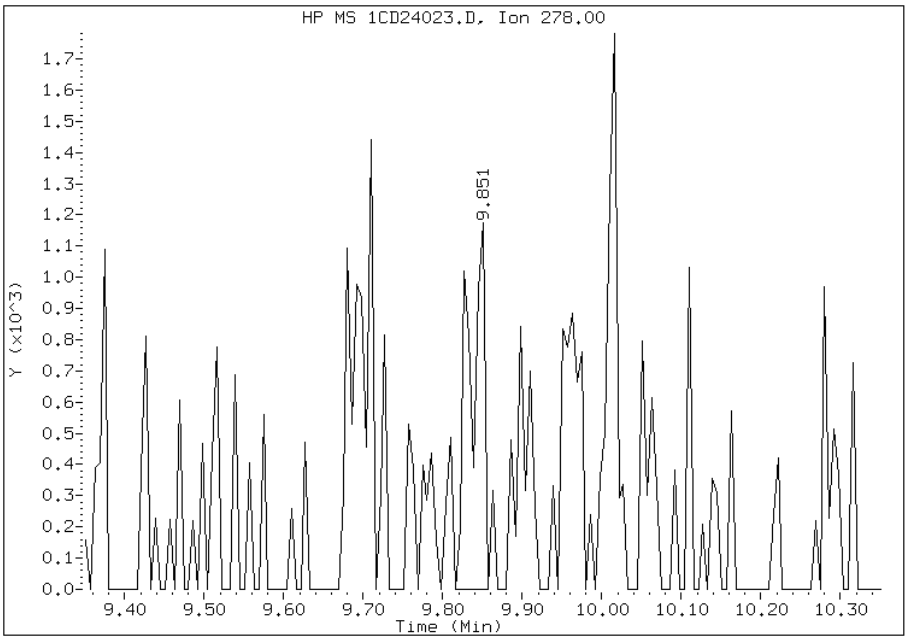
Manual Integration Results

RT: 9.85

Response: 1609

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24023.D
Inj. Date and Time: 24-APR-2013 19:05
Instrument ID: BSMC5973.i
Client ID: CV1176A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

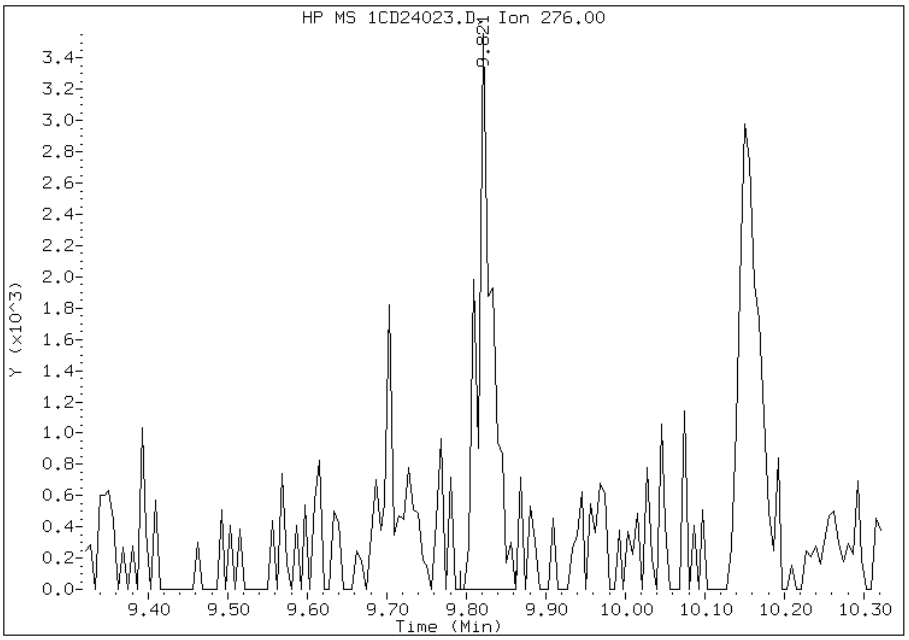
Processing Integration Results

RT: 9.82

Response: 4519

Amount: 1

Conc: 111



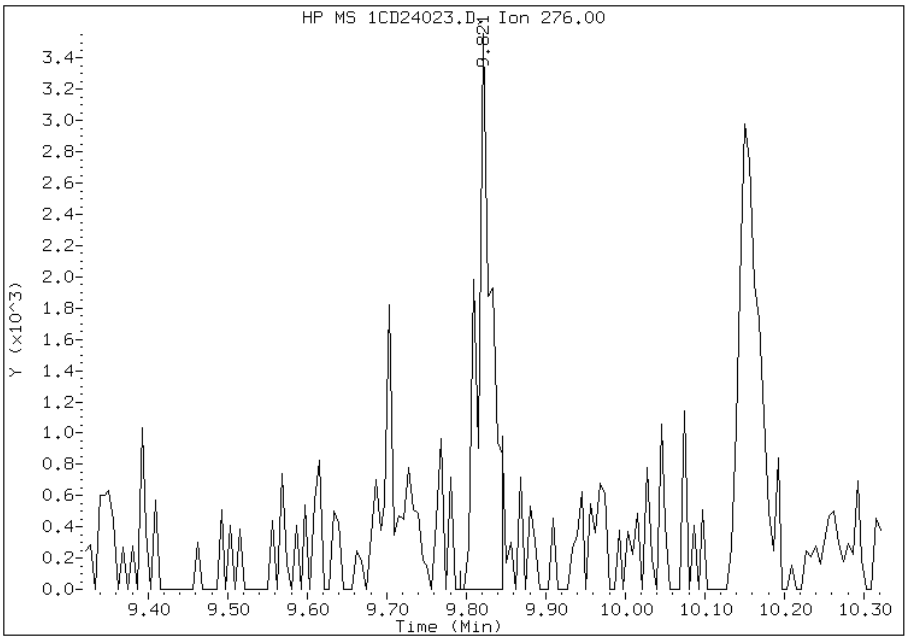
Manual Integration Results

RT: 9.82

Response: 4353

Amount: 1

Conc: 108



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1176A-CSD | Lab Sample ID: 680-89513-4

Matrix: Solid | Lab File ID: 1CD24024.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.92(g) | Date Analyzed: 04/24/2013 19:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26	J	120	25
208-96-8	Acenaphthylene	49	U	49	6.2
120-12-7	Anthracene	35		10	5.2
56-55-3	Benzo[a]anthracene	67		9.9	4.8
50-32-8	Benzo[a]pyrene	78		13	6.4
205-99-2	Benzo[b]fluoranthene	120		15	7.5
191-24-2	Benzo[g,h,i]perylene	70		25	5.4
207-08-9	Benzo[k]fluoranthene	66		9.9	4.4
218-01-9	Chrysene	110		11	5.5
53-70-3	Dibenz(a,h)anthracene	24	J	25	5.1
206-44-0	Fluoranthene	98		25	4.9
86-73-7	Fluorene	25	U	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	78		25	8.8
90-12-0	1-Methylnaphthalene	45	J	49	5.4
91-57-6	2-Methylnaphthalene	71		49	8.8
91-20-3	Naphthalene	31	J	49	5.4
85-01-8	Phenanthrene	94		9.9	4.8
129-00-0	Pyrene	77		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24024.D
Lab Smp Id: 680-89513-A-4-A Client Smp ID: CV1176A-CSD
Inj Date : 24-APR-2013 19:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-4-a
Misc Info : 680-89513-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 20
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	18.452	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	162553	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	111393	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	203751	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	16214	5.48095	450.4804
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	240444	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	209207	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	1444	0.37613	30.9145(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	763	0.86973	71.4835(Q)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	1258	0.54794	45.0355
7 Acenaphthene	154	4.745	4.740	(1.005)	898	0.31664	26.0245(Q)
11 Phenanthrene	178	5.674	5.675	(1.002)	6372	1.14219	93.8765
12 Anthracene	178	5.715	5.710	(1.009)	1728	0.42364	34.8191
13 Carbazole	167	5.821	5.822	(1.028)	1179	0.21026	17.2810(Q)
15 Fluoranthene	202	6.504	6.504	(1.149)	8226	1.19562	98.2686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.674	6.675	(0.879)	6620	0.93224	76.6213
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	5663	0.81233	66.7654(Q)
19 Chrysene	228	7.609	7.610	(1.002)	8823	1.28503	105.6164
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	8295	1.43363	117.8301(M)
21 Benzo(k)fluoranthene	252	8.415	8.428	(0.964)	4491	0.79772	65.5645(QM)
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	4170	0.94807	77.9221
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.125)	1916	0.94764	77.8868(H)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	1506	0.29687	24.3995(Q)
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	4477	0.84753	69.6585(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: 1CD24024.D

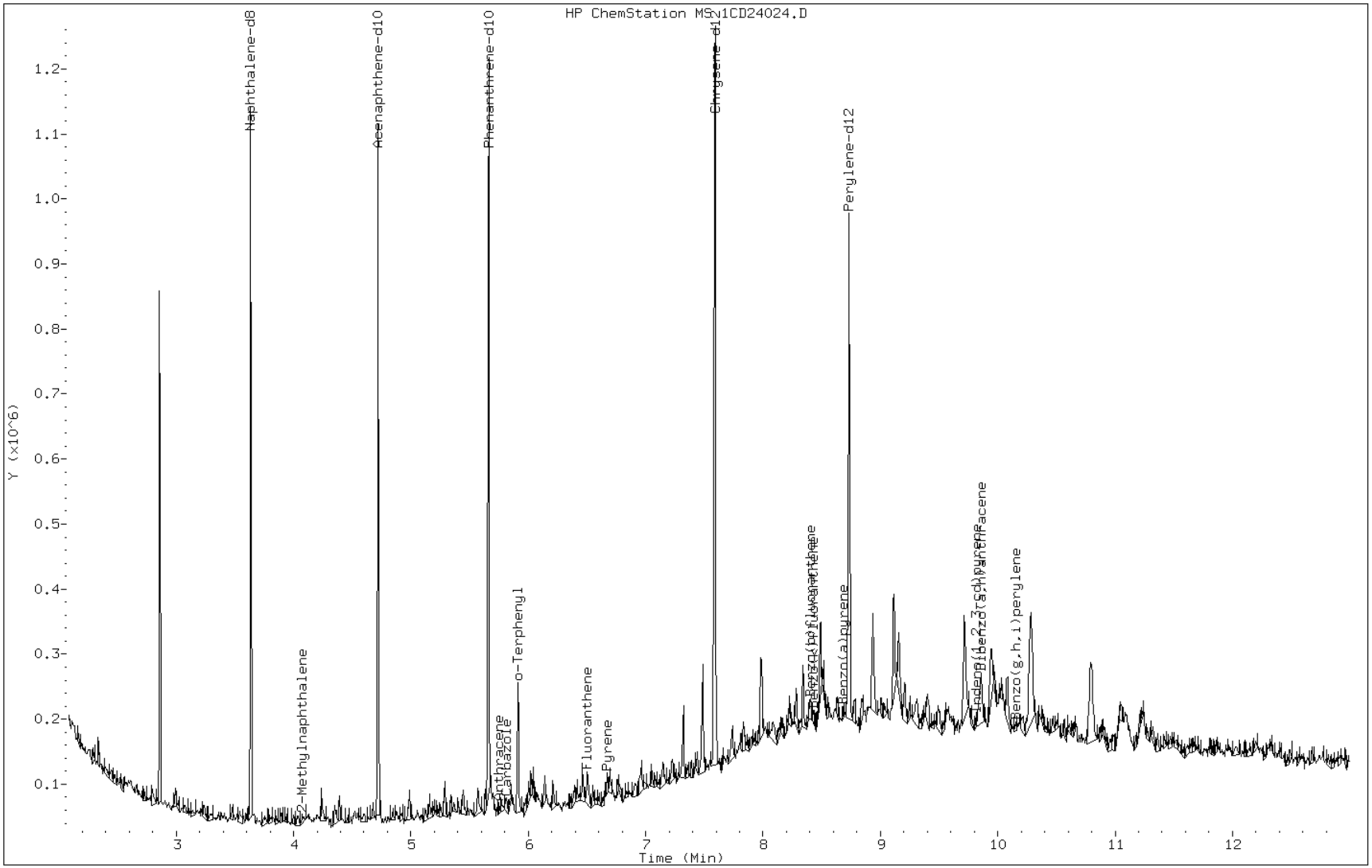
Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC



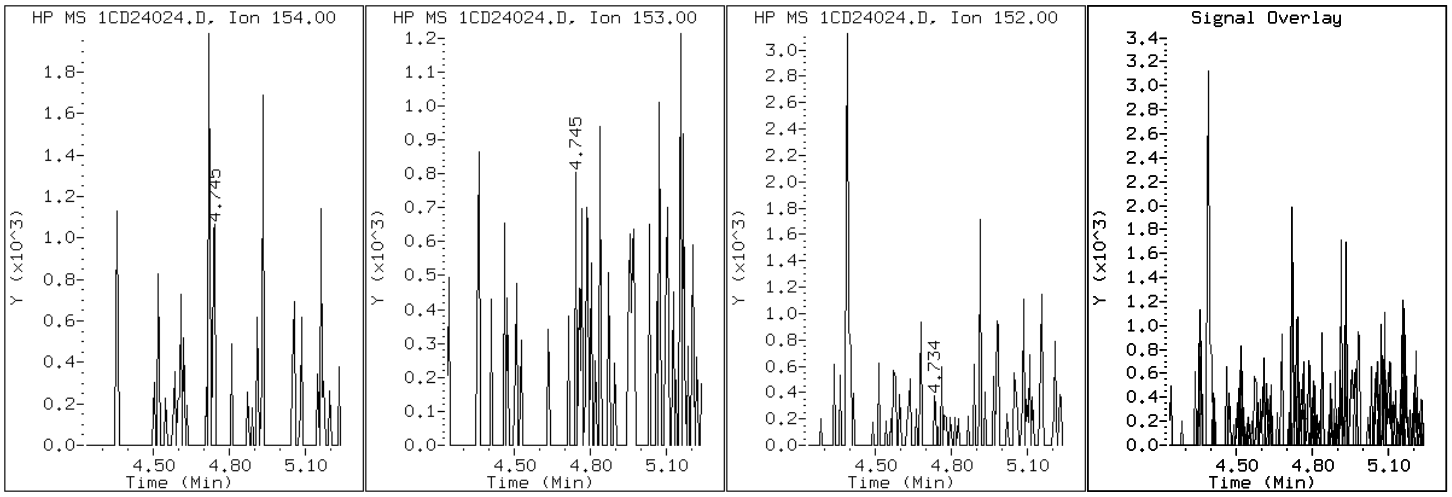
Data File: 1CD24024.D

Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a Operator: SCC

7 Acenaphthene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

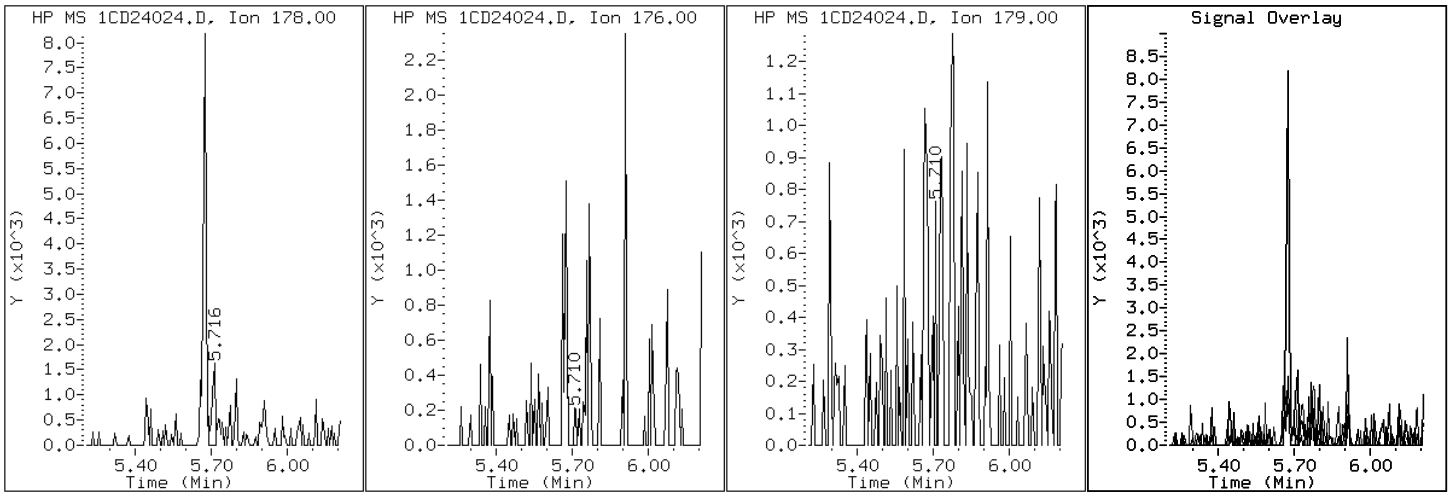
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

12 Anthracene



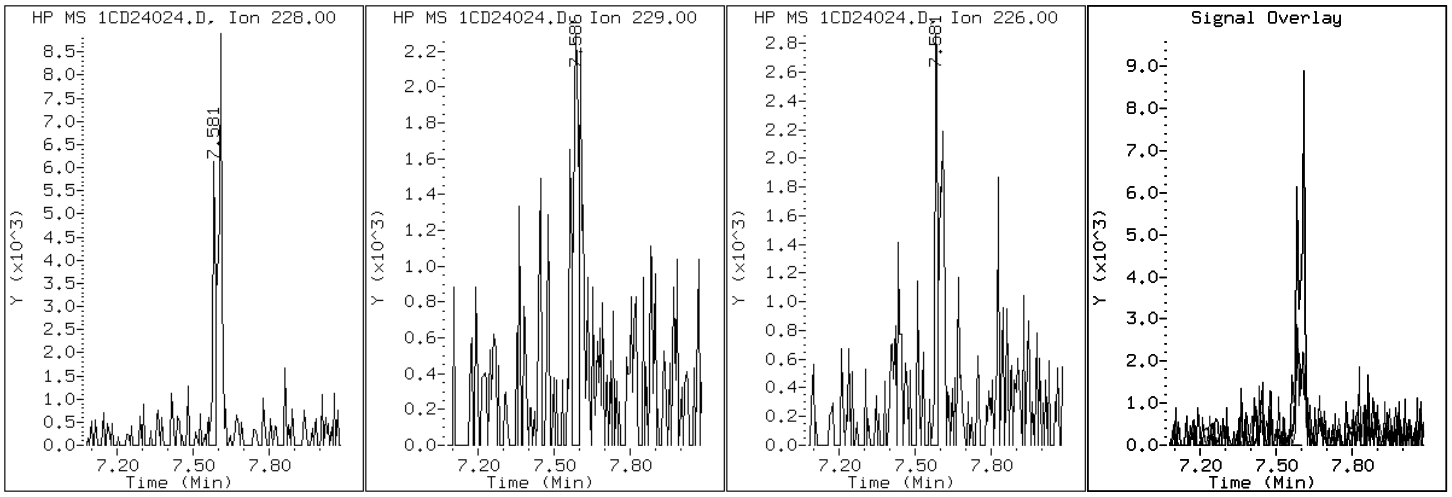
Data File: 1CD24024.D

Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

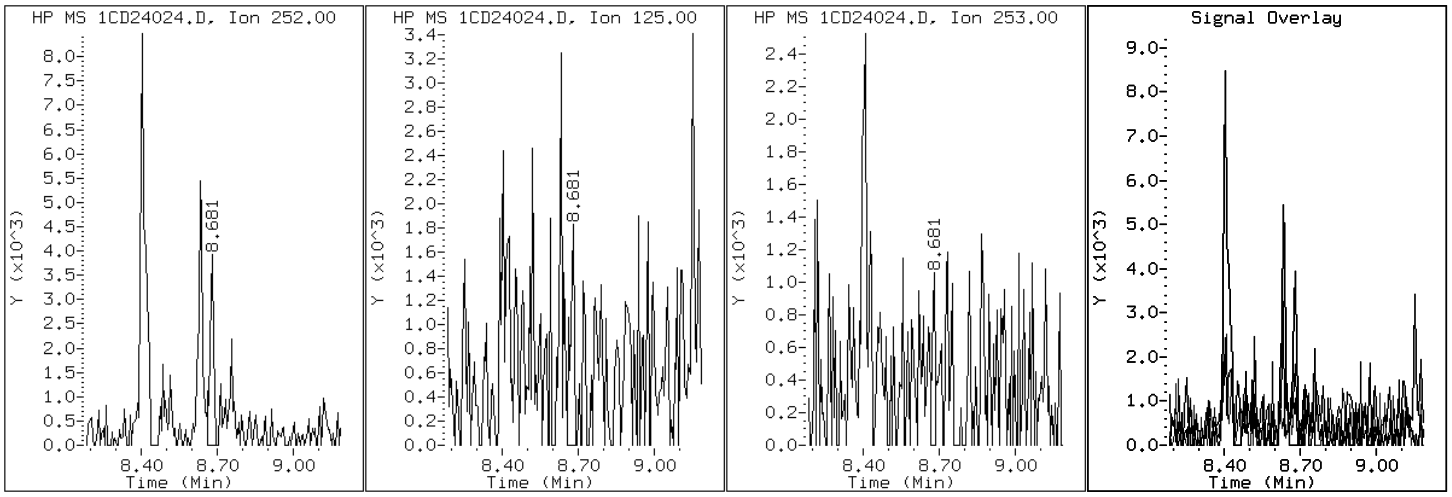
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

22 Benzo(a)pyrene



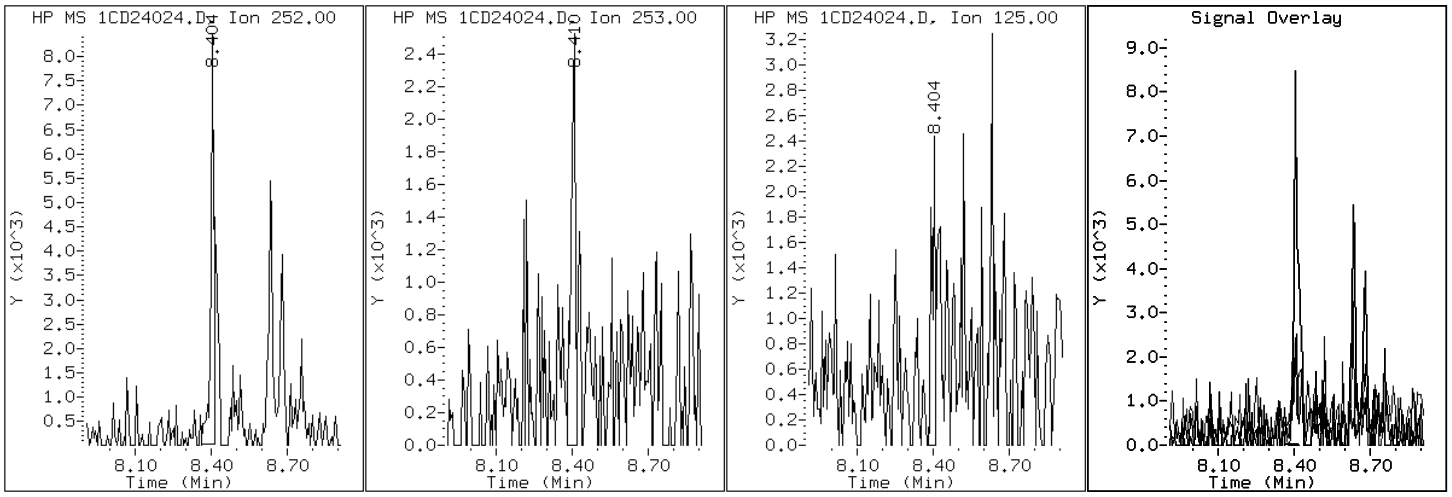
Data File: 1CD24024.D

Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

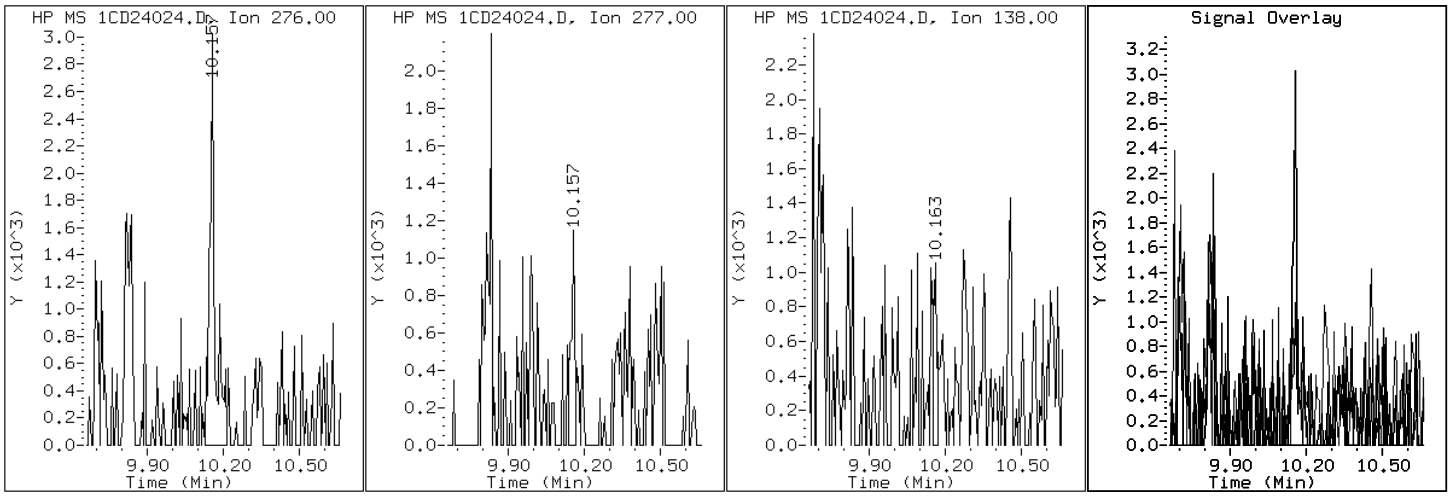
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



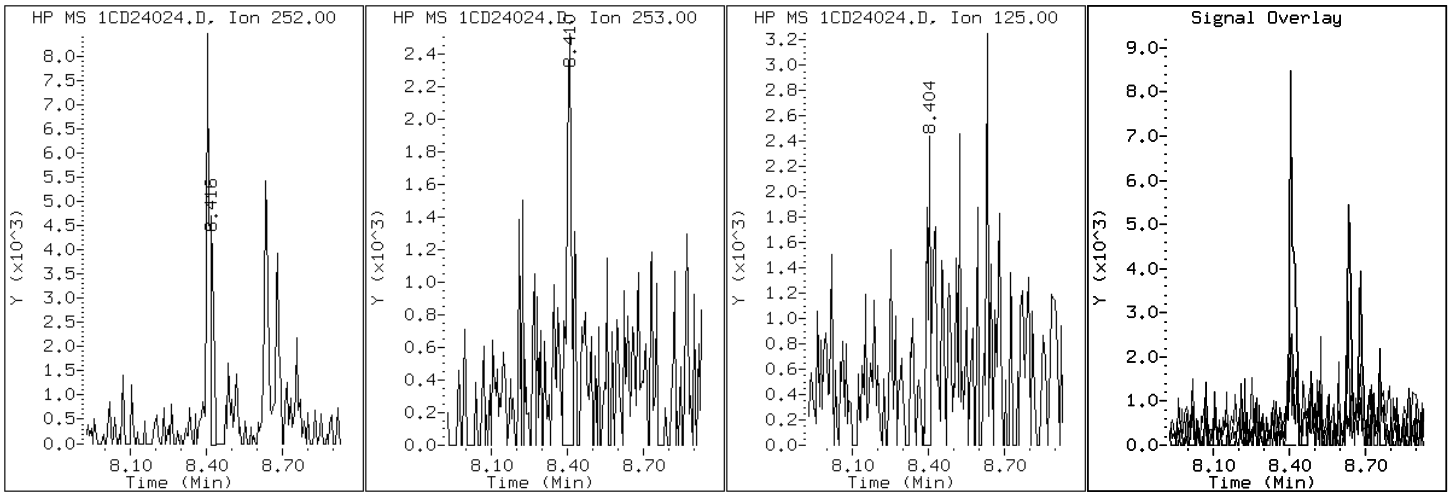
Data File: 1CD24024.D

Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

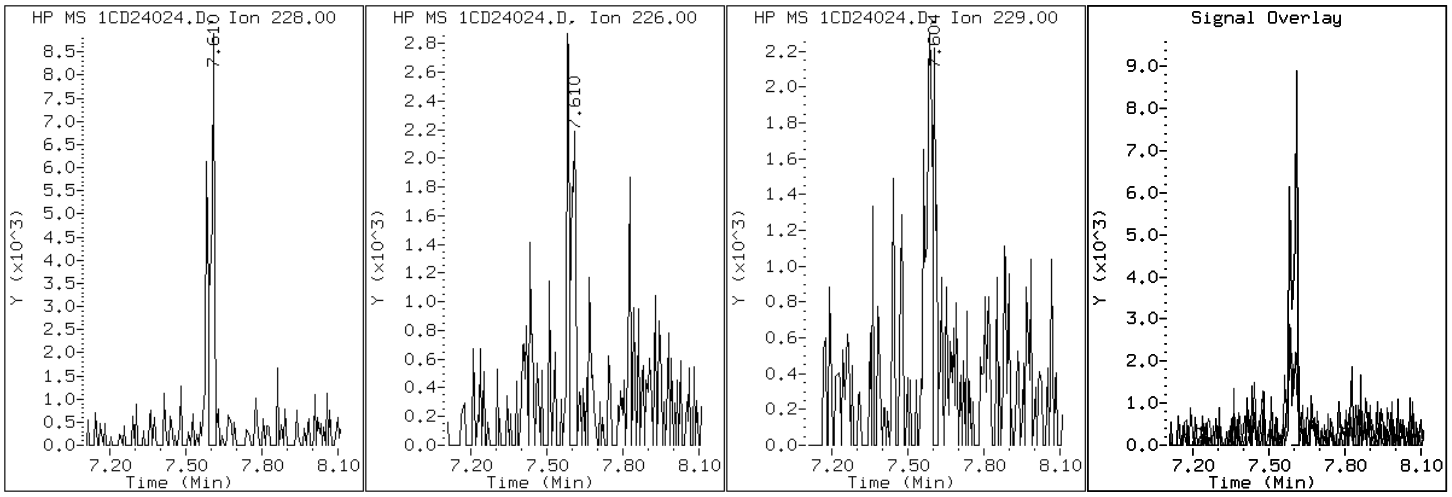
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

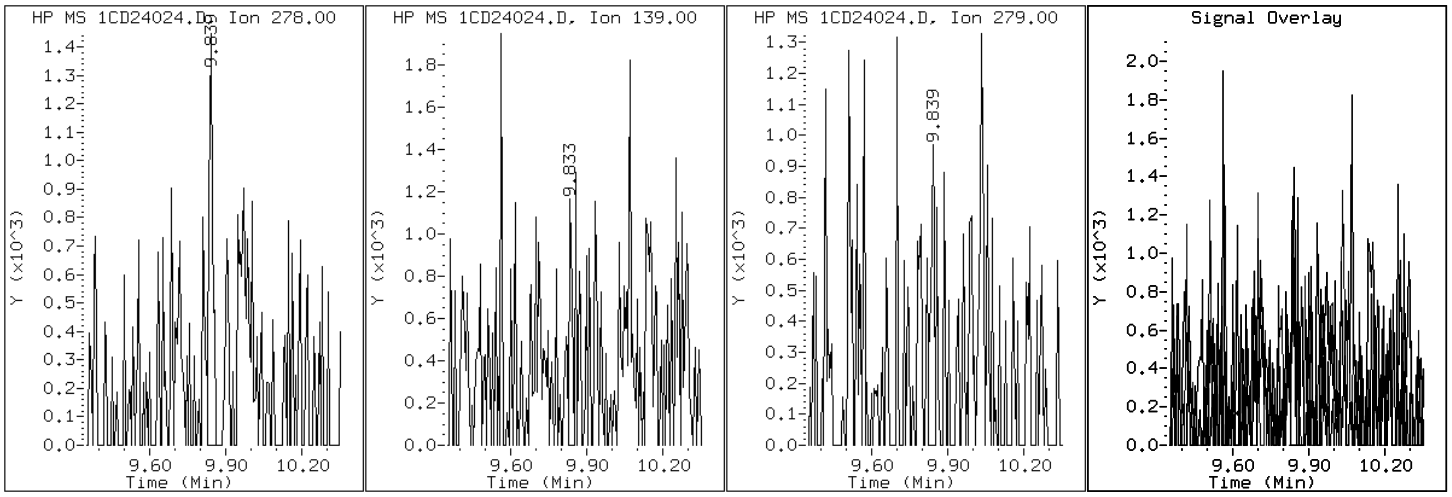
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

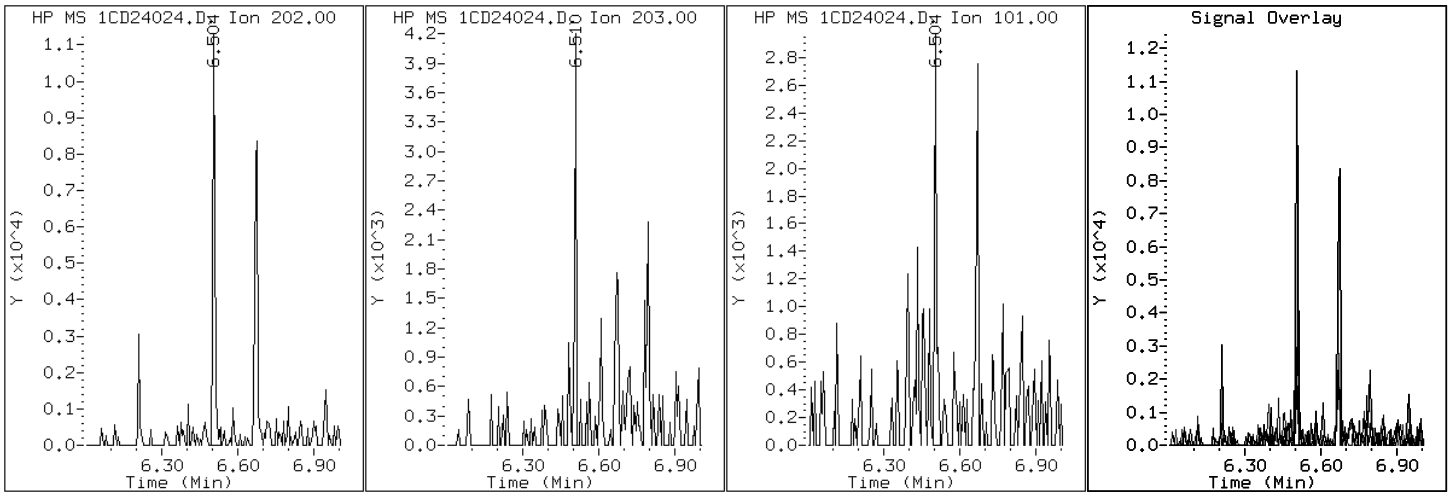
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

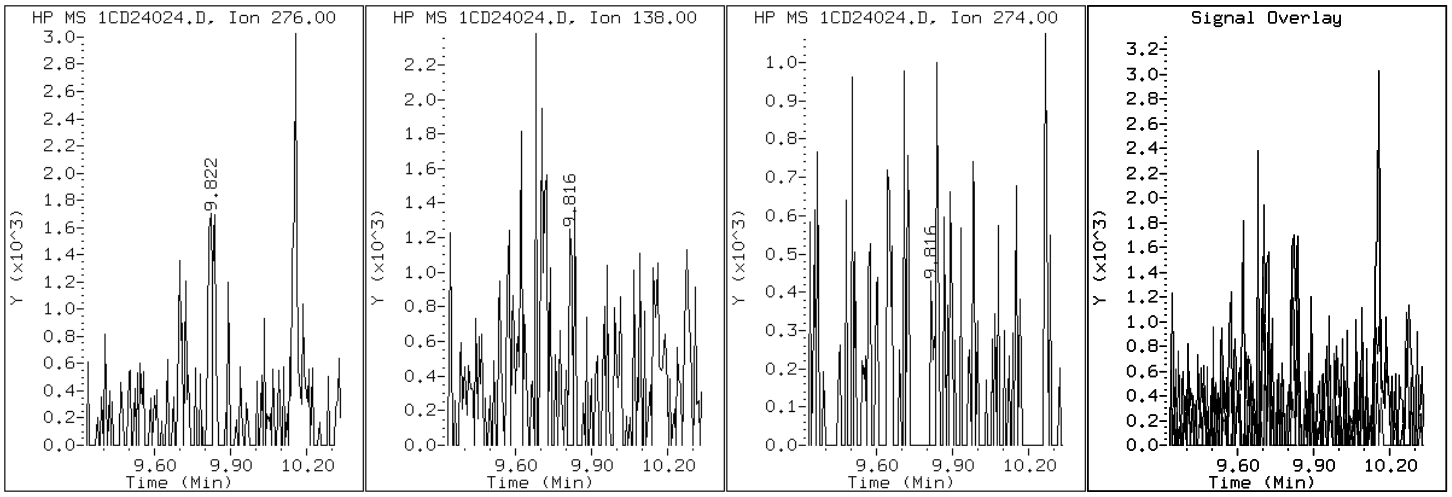
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

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



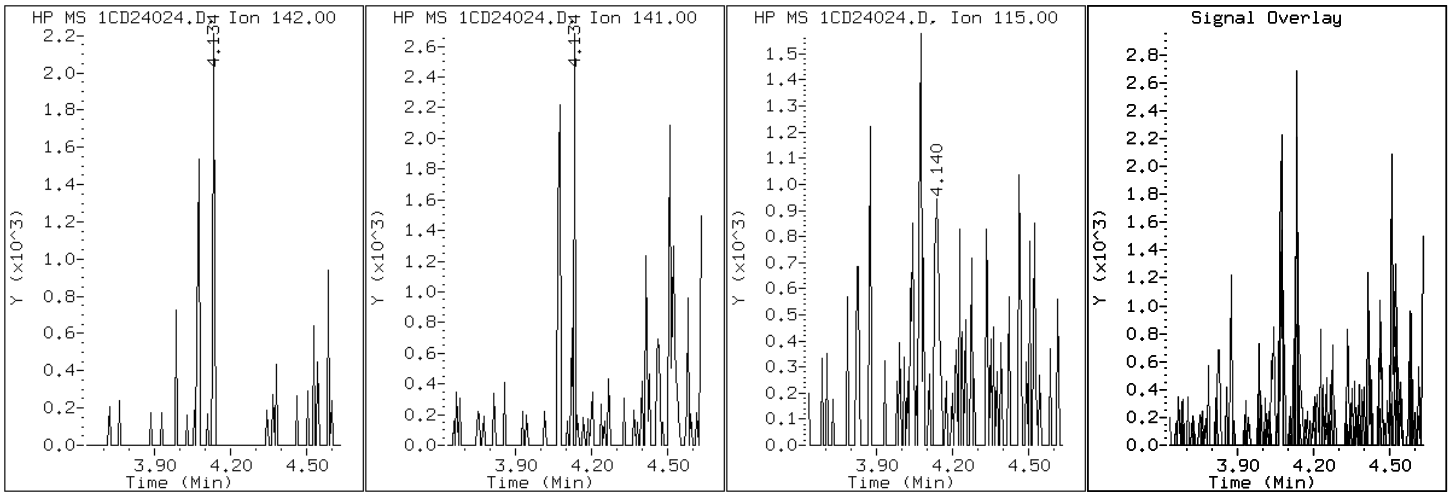
Data File: 1CD24024.D

Date: 24-APR-2013 19:24

Client ID: CV1176A-CSD Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

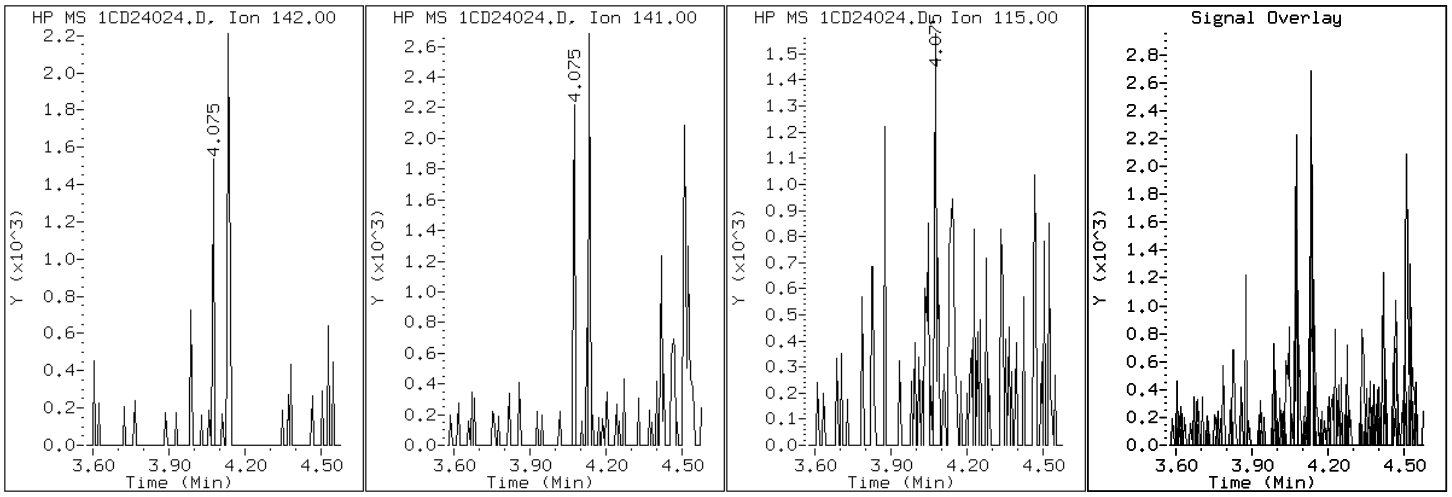
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

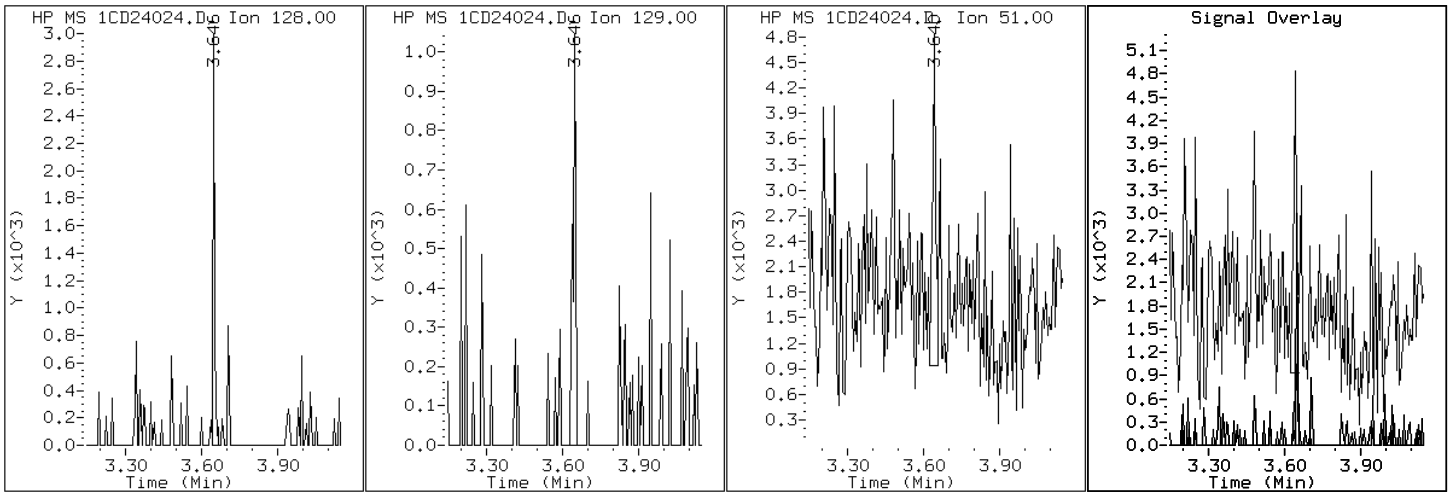
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

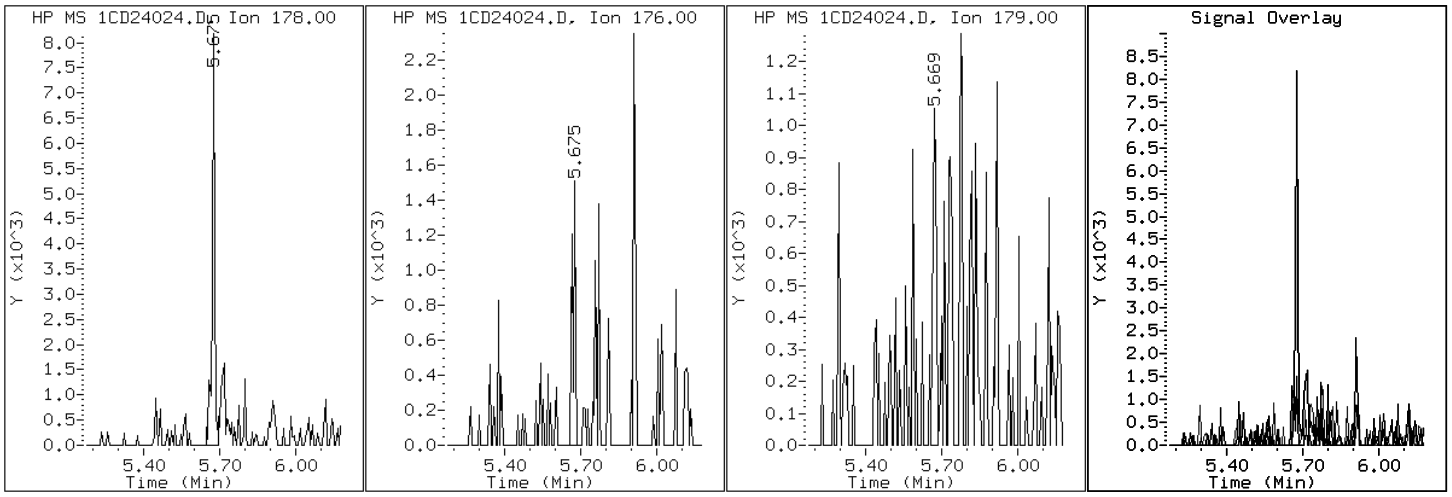
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24024.D

Date: 24-APR-2013 19:24

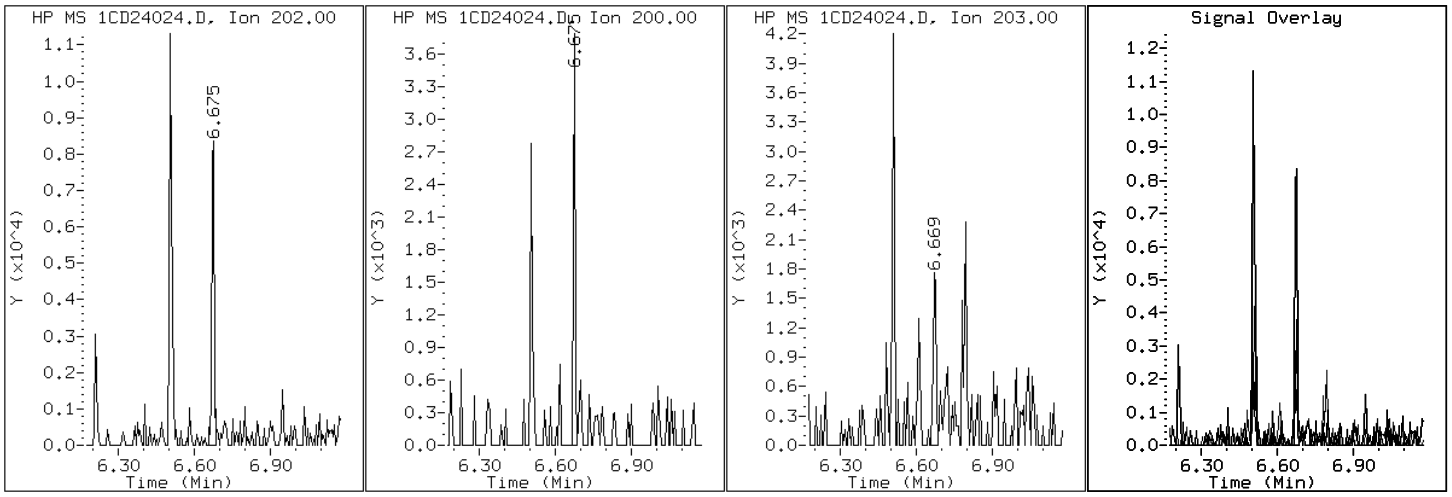
Client ID: CV1176A-CSD

Instrument: BSMC5973.i

Sample Info: 680-89513-a-4-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24024.D
Inj. Date and Time: 24-APR-2013 19:24
Instrument ID: BSMC5973.i
Client ID: CV1176A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

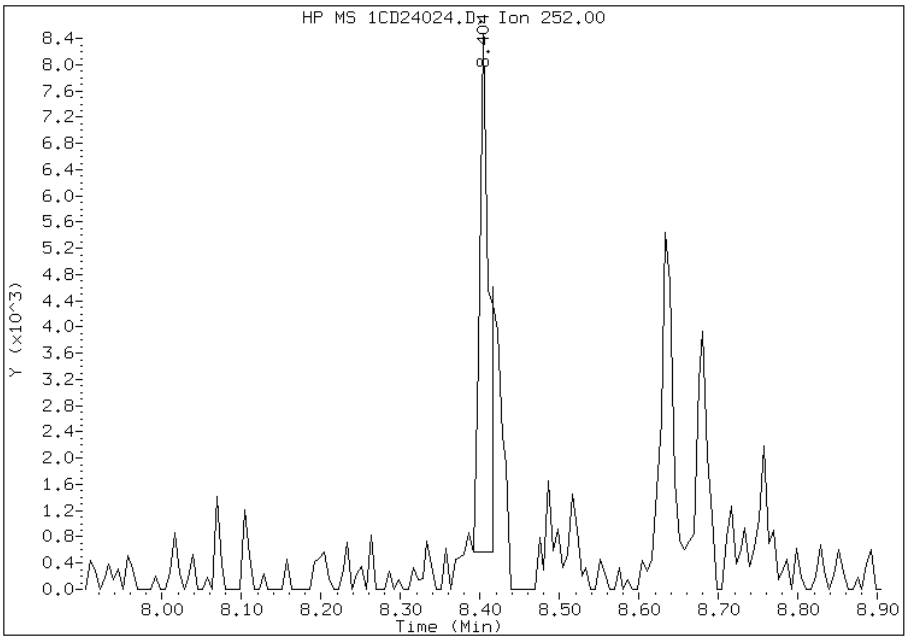
Processing Integration Results

RT: 8.40

Response: 6574

Amount: 1

Conc: 93



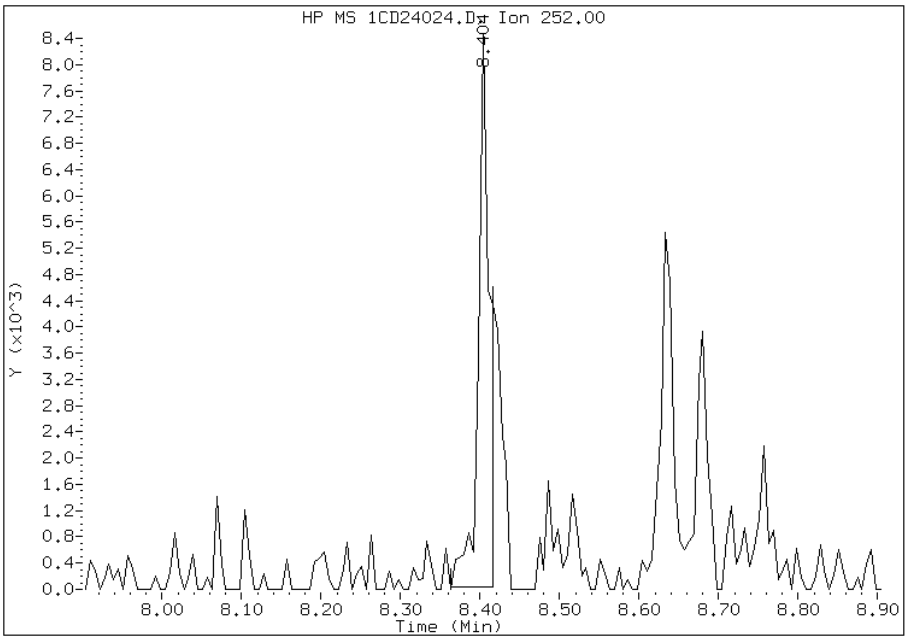
Manual Integration Results

RT: 8.40

Response: 8295

Amount: 1

Conc: 118



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24024.D
Inj. Date and Time: 24-APR-2013 19:24
Instrument ID: BSMC5973.i
Client ID: CV1176A-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

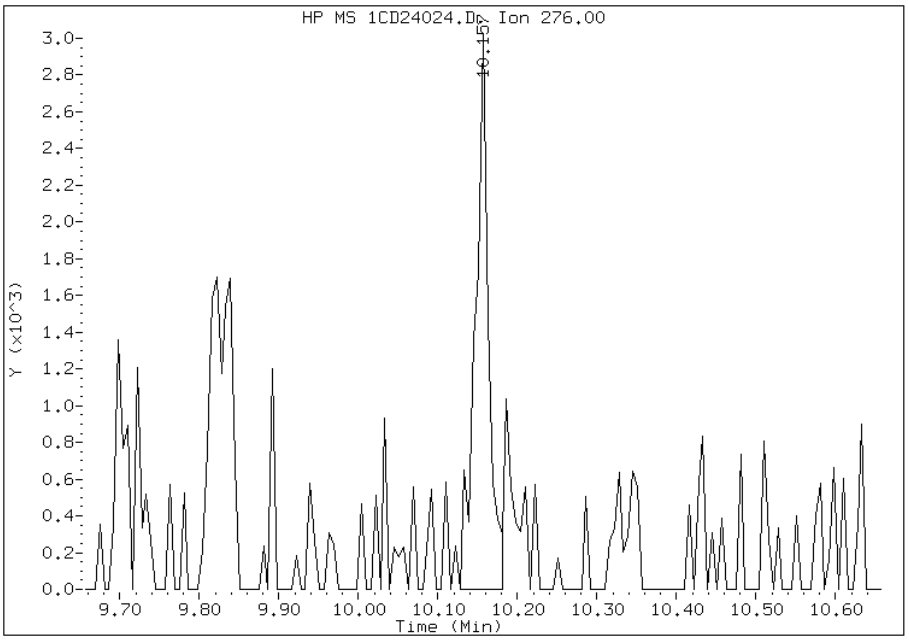
Processing Integration Results

RT: 10.16

Response: 3480

Amount: 1

Conc: 54



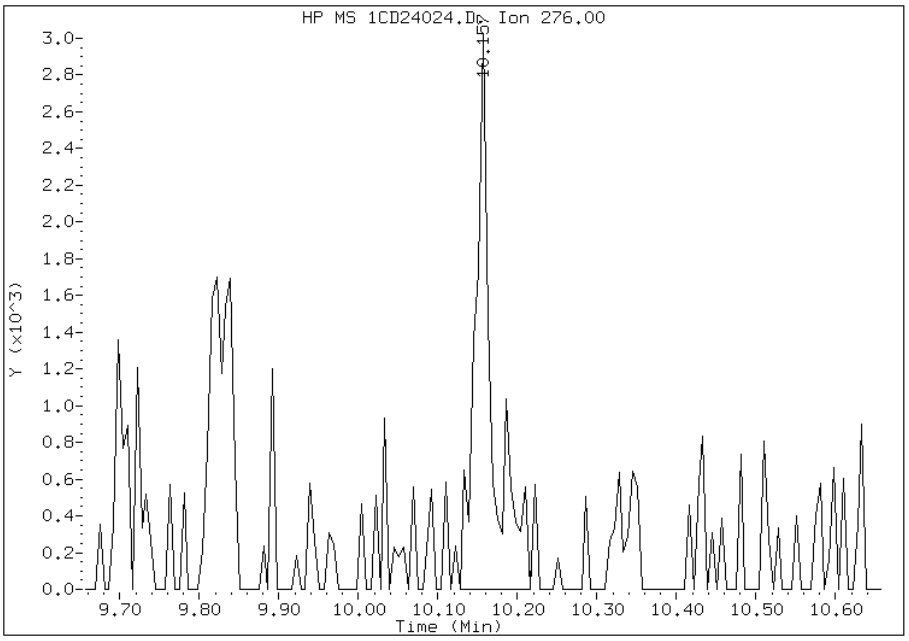
Manual Integration Results

RT: 10.16

Response: 4477

Amount: 1

Conc: 70



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24024.D
Inj. Date and Time: 24-APR-2013 19:24
Instrument ID: BSMC5973.i
Client ID: CV1176A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

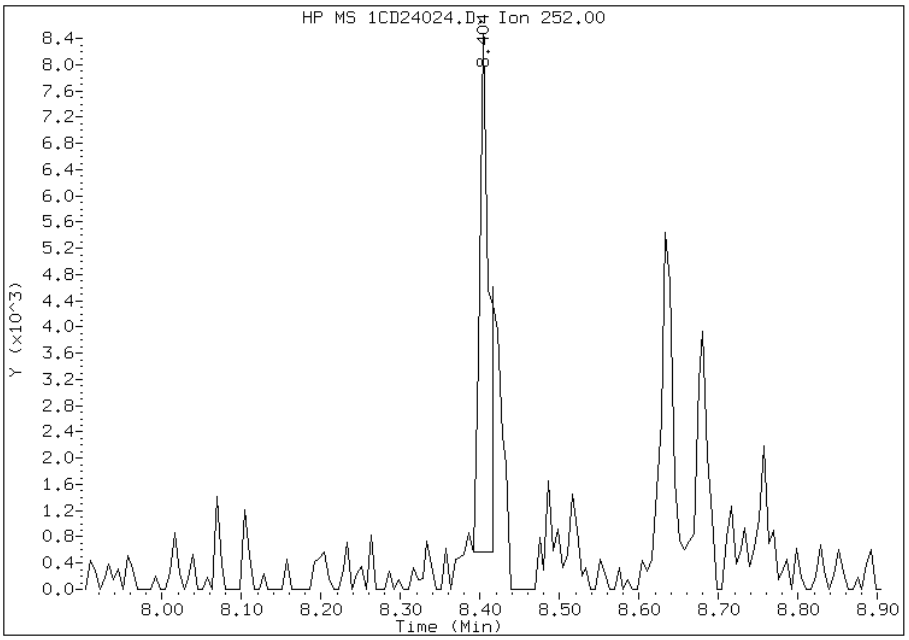
Processing Integration Results

RT: 8.40

Response: 6574

Amount: 1

Conc: 96



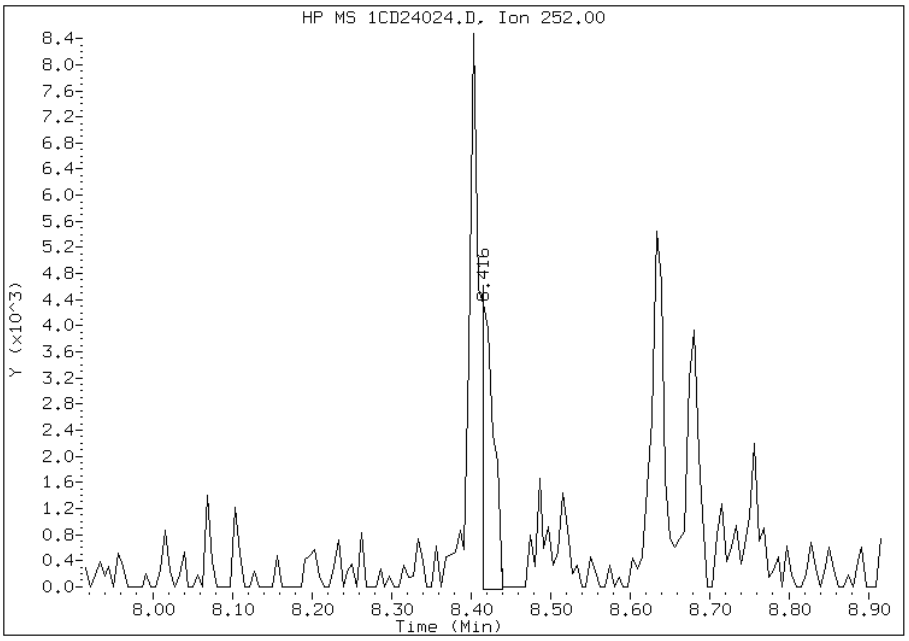
Manual Integration Results

RT: 8.42

Response: 4491

Amount: 1

Conc: 66



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:49
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1176B-CS | Lab Sample ID: 680-89513-5

Matrix: Solid | Lab File ID: 1CD24025.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 09:40

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.95(g) | Date Analyzed: 04/24/2013 19:42

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 27.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	56	U	56	7.0
120-12-7	Anthracene	57		12	5.8
56-55-3	Benzo[a]anthracene	160		11	5.4
50-32-8	Benzo[a]pyrene	120		14	7.2
205-99-2	Benzo[b]fluoranthene	190		17	8.5
191-24-2	Benzo[g,h,i]perylene	160		28	6.1
207-08-9	Benzo[k]fluoranthene	200		11	5.0
218-01-9	Chrysene	210		13	6.3
53-70-3	Dibenz(a,h)anthracene	54		28	5.7
206-44-0	Fluoranthene	160		28	5.6
86-73-7	Fluorene	21	J	28	5.7
193-39-5	Indeno[1,2,3-cd]pyrene	130		28	9.9
90-12-0	1-Methylnaphthalene	330		56	6.1
91-57-6	2-Methylnaphthalene	240		56	9.9
91-20-3	Naphthalene	160		56	6.1
85-01-8	Phenanthrene	430		11	5.4
129-00-0	Pyrene	200		28	5.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24025.D
Lab Smp Id: 680-89513-A-5-A Client Smp ID: CV1176B-CS
Inj Date : 24-APR-2013 19:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-5-a
Misc Info : 680-89513-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 21
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	27.872	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	142592	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	92185	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	197130	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	14960	5.22690	484.7318
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	238863	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	210530	40.0000	
2 Naphthalene	128	3.651	3.646	(1.005)	6521	1.67711	155.5312
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	5684	2.56944	238.2845
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	9047	3.54461	328.7197
9 Fluorene	166	5.057	5.057	(1.071)	722	0.22558	20.9194
11 Phenanthrene	178	5.674	5.675	(1.002)	24753	4.58603	425.2980
12 Anthracene	178	5.710	5.710	(1.008)	2796	0.61390	56.9315
13 Carbazole	167	5.821	5.822	(1.028)	1908	0.35169	32.6150(Q)
15 Fluoranthene	202	6.504	6.504	(1.149)	11578	1.75107	162.3902

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.668	6.675	(0.878)	14885	2.11002	195.6783
17 Benzo(a)anthracene	228	7.586	7.581	(0.999)	11353	1.76302	163.4987
19 Chrysene	228	7.609	7.610	(1.002)	15754	2.30968	214.1944
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	11645	1.99996	185.4721(M)
21 Benzo(k)fluoranthene	252	8.409	8.428	(0.963)	12357	2.18113	202.2733(M)
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	6335	1.31818	122.2448
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	4901	1.45554	134.9834(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	2979	0.58354	54.1161(QM)
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.164)	9055	1.70341	157.9702(M)

QC Flag Legend

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

Data File: 1CD24025.D

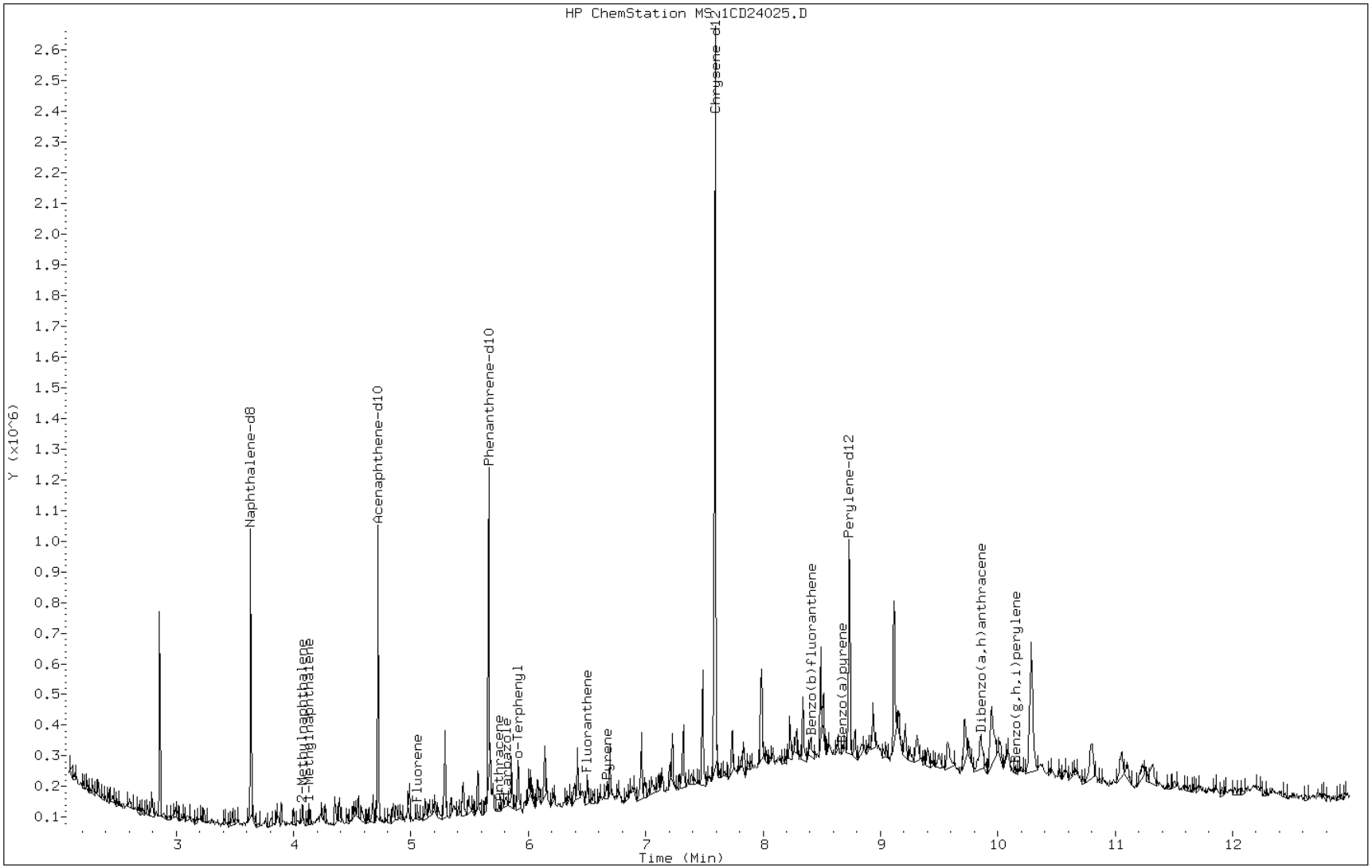
Date: 24-APR-2013 19:42

Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

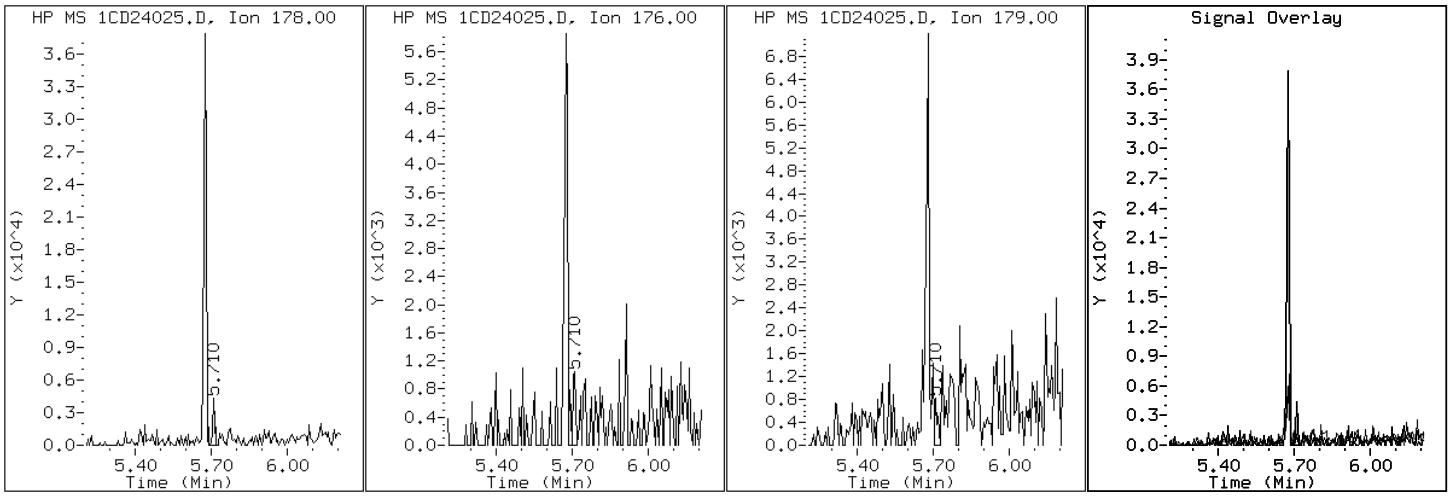
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

12 Anthracene



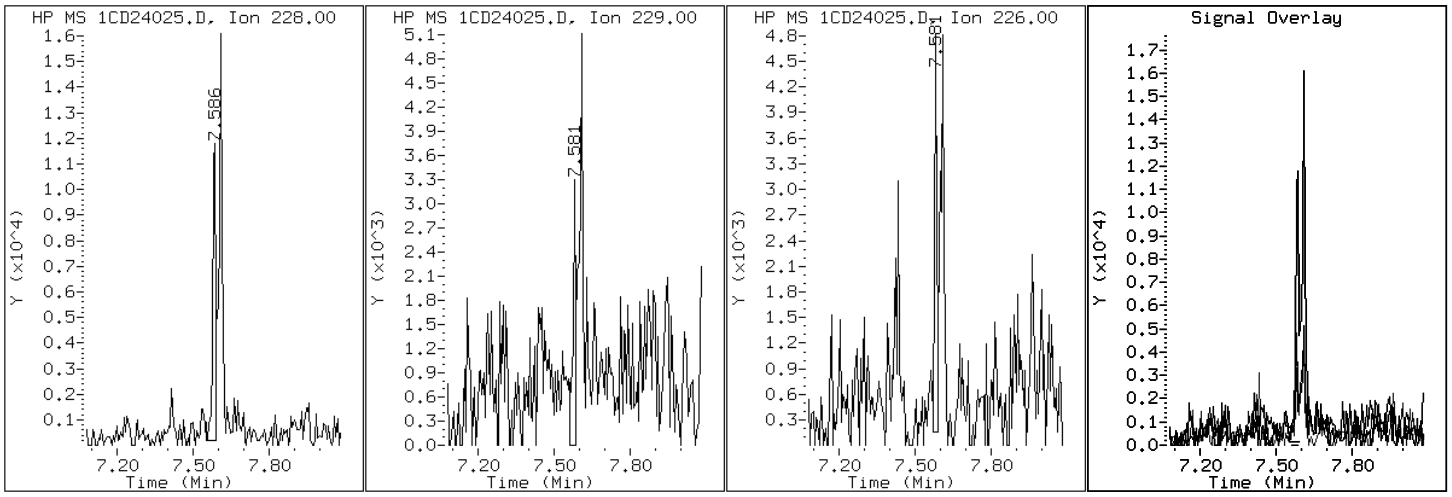
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

17 Benzo(a)anthracene



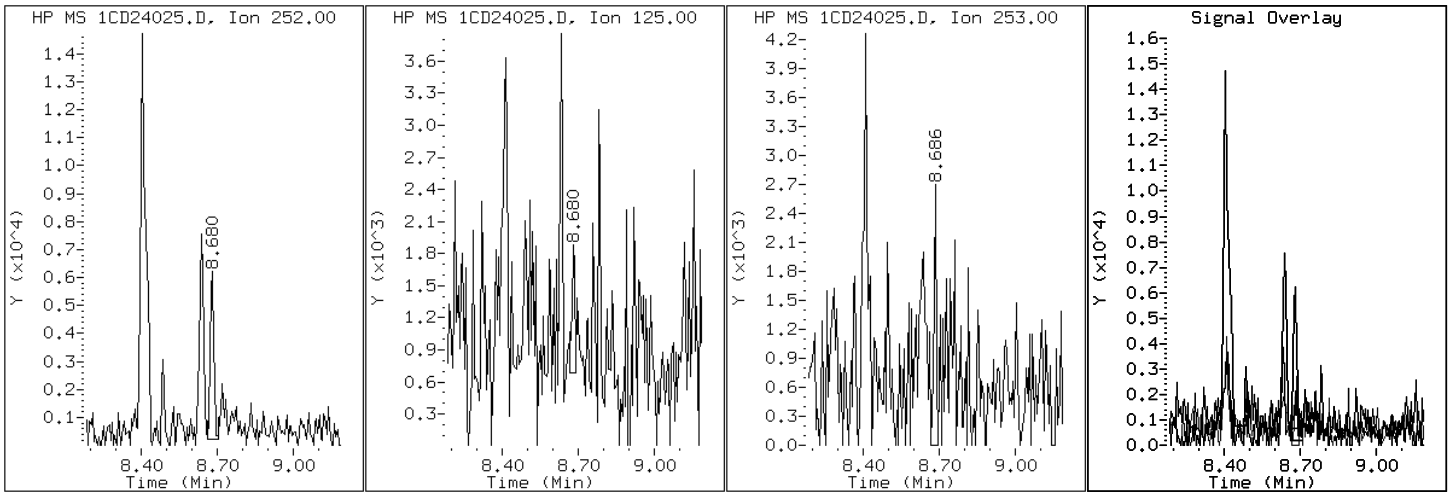
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

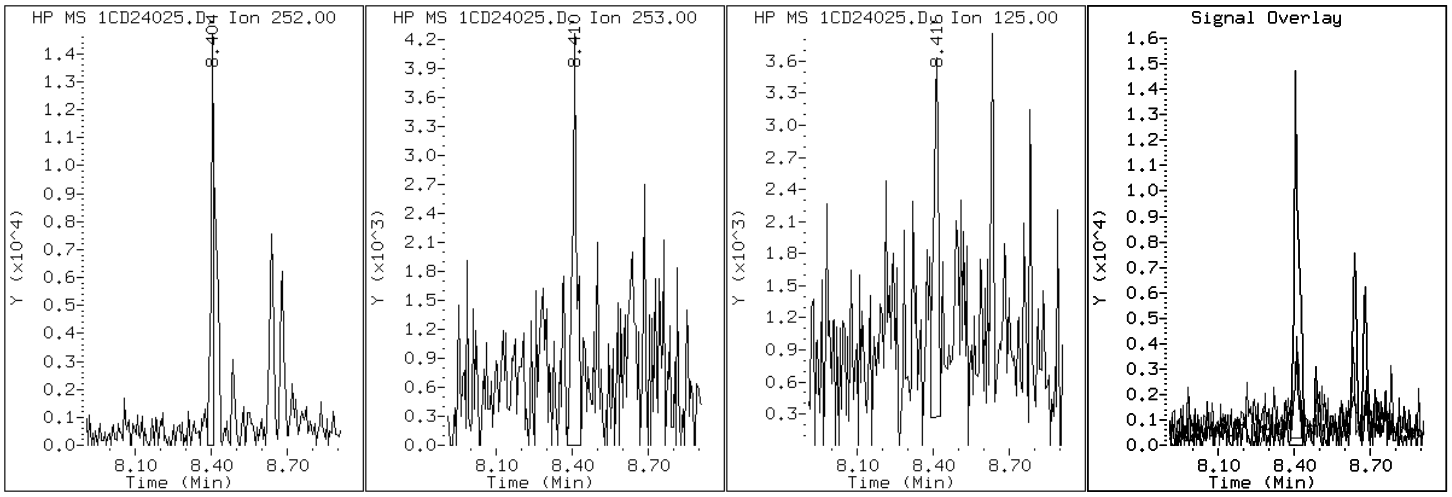
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

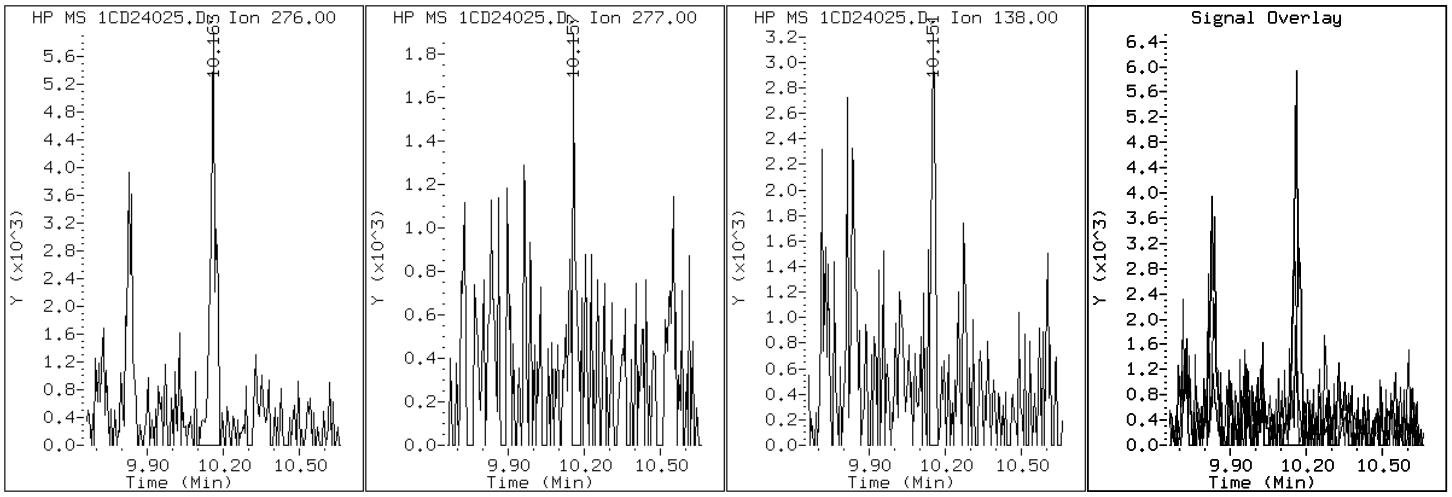
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



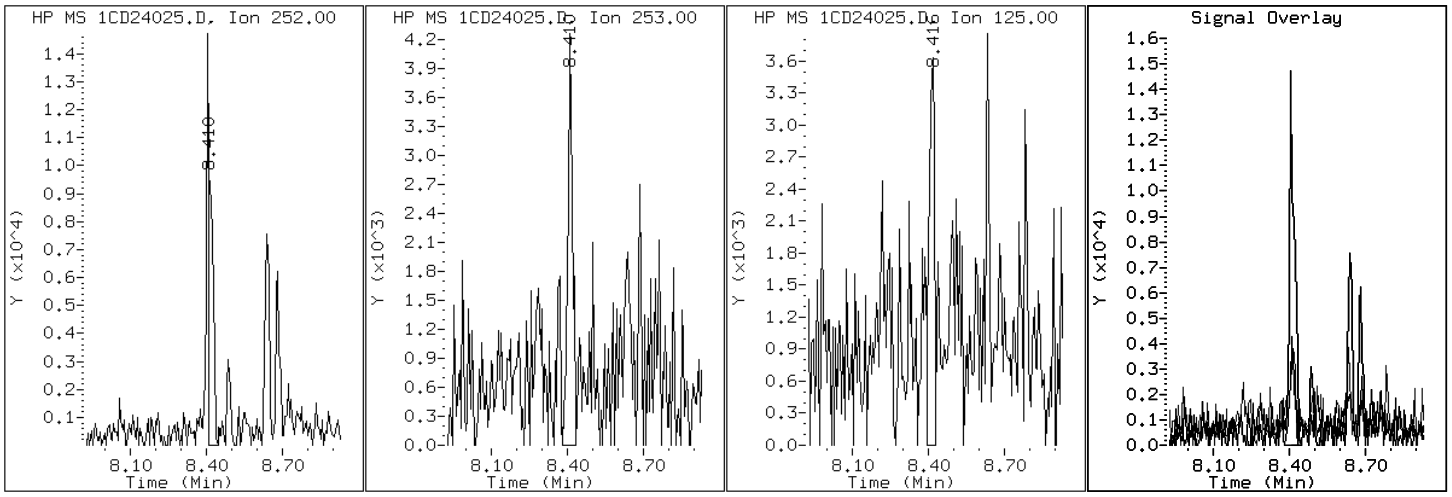
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



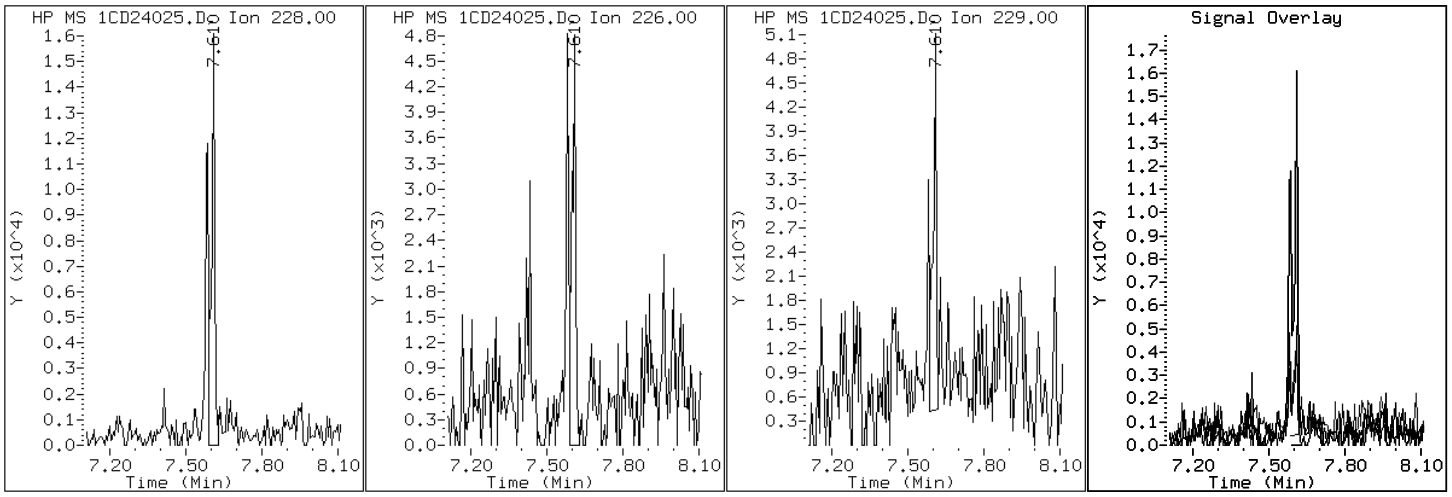
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

19 Chrysene



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

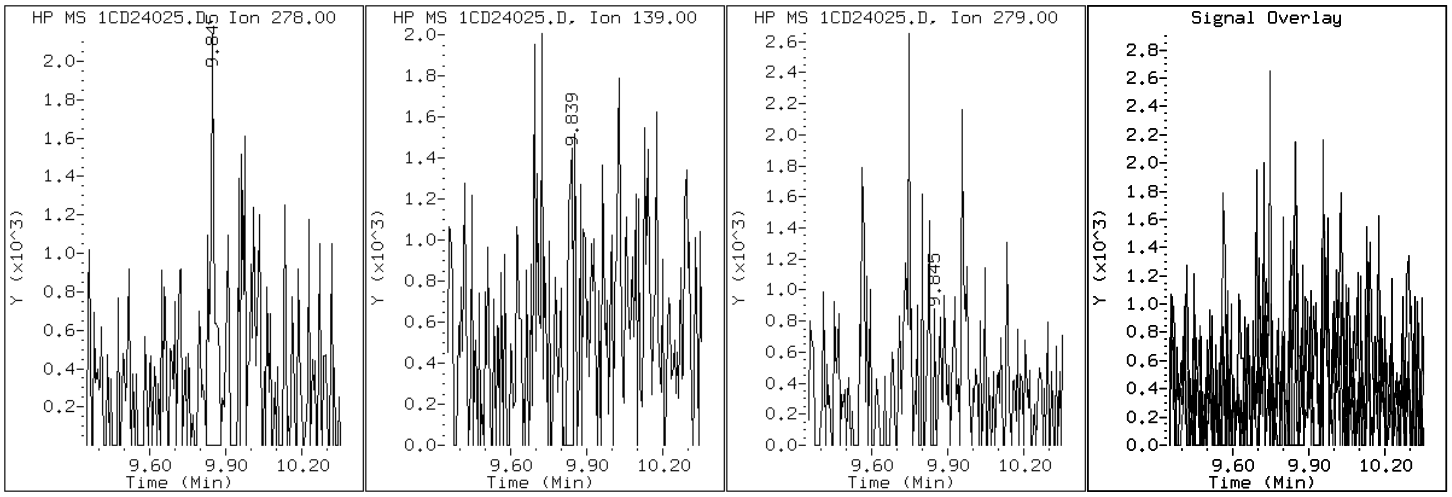
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

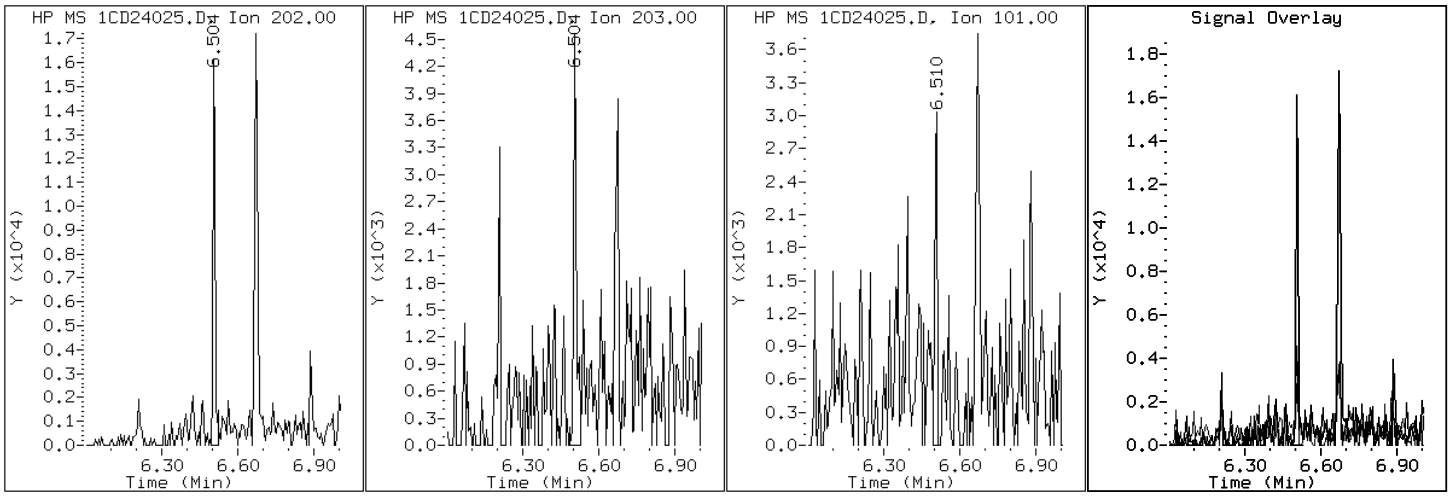
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

15 Fluoranthene



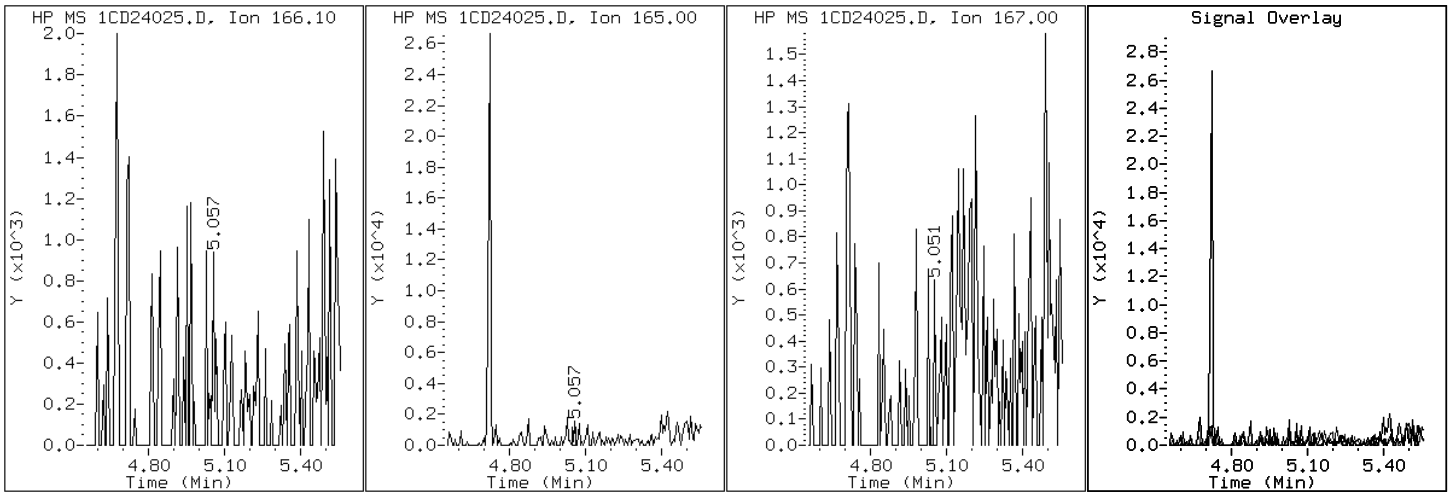
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

9 Fluorene



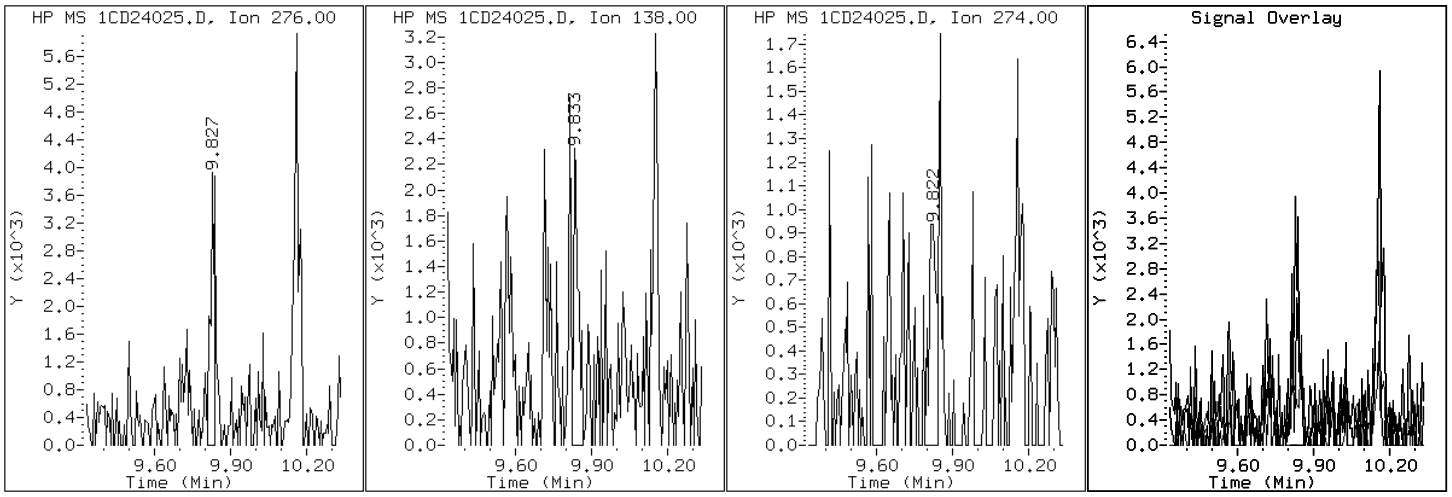
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

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



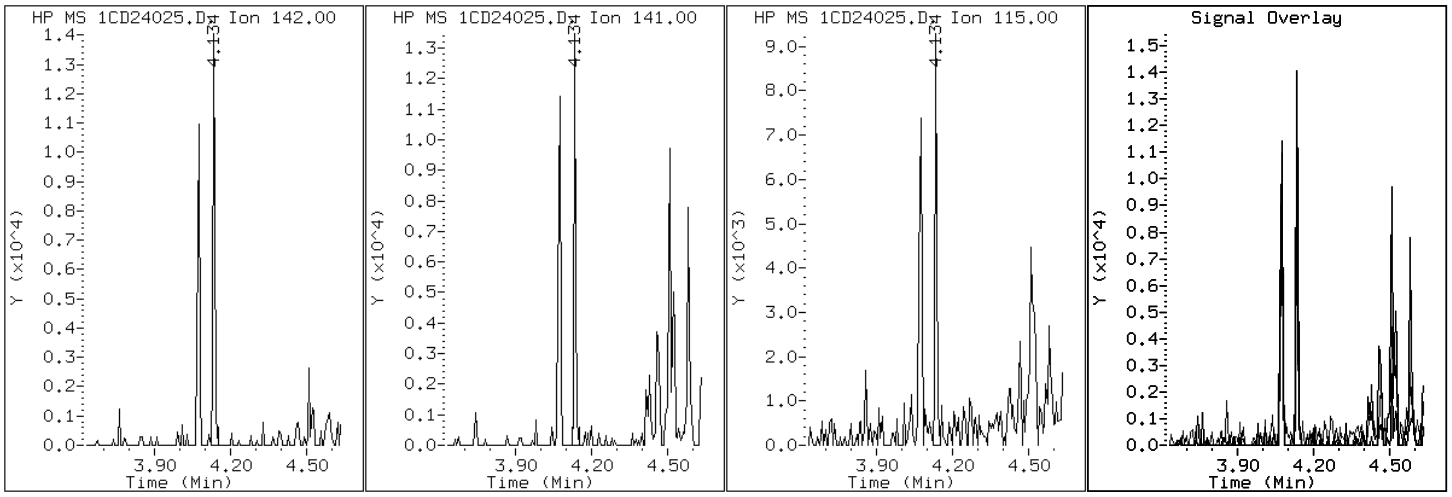
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

4 1-Methylnaphthalene



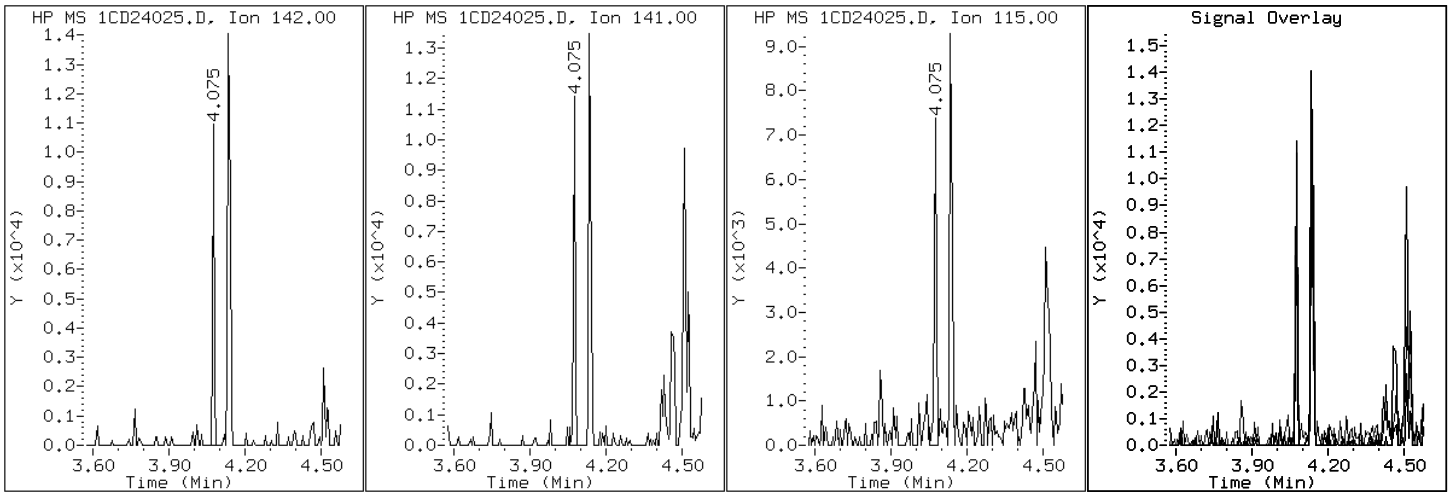
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

3 2-Methylnaphthalene



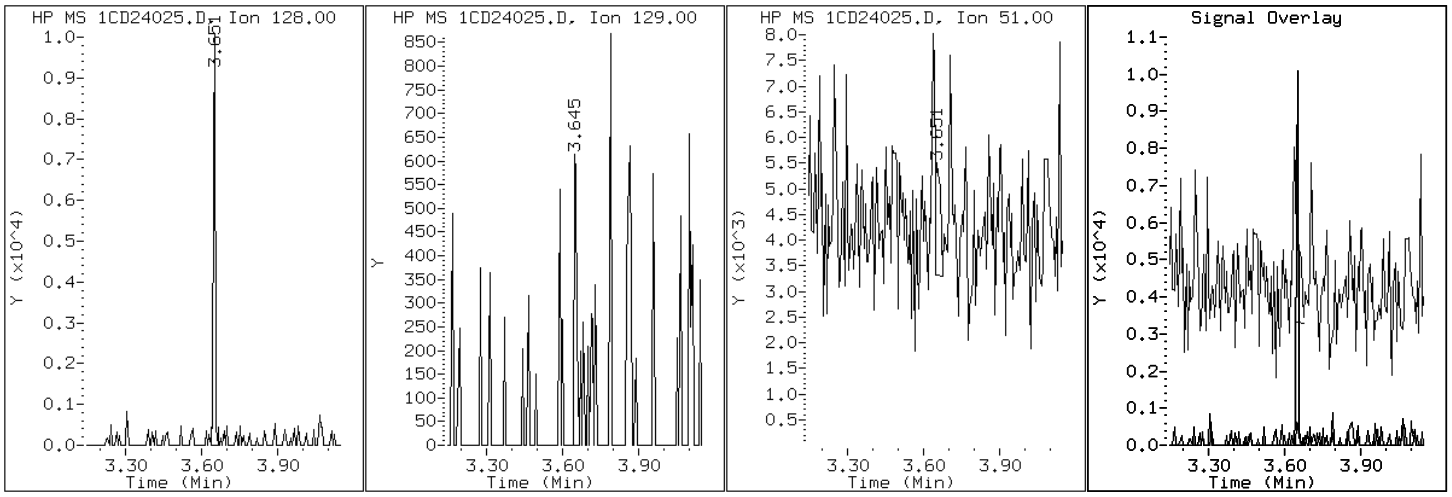
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

2 Naphthalene



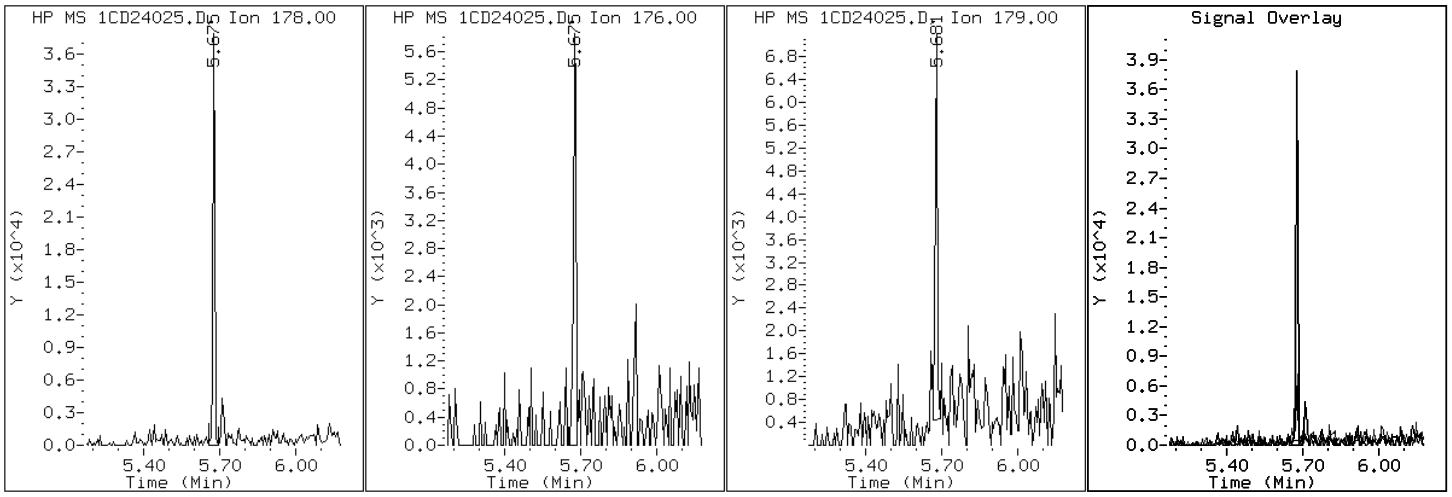
Data File: 1CD24025.D

Date: 24-APR-2013 19:42

Client ID: CV1176B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a Operator: SCC

11 Phenanthrene



Data File: 1CD24025.D

Date: 24-APR-2013 19:42

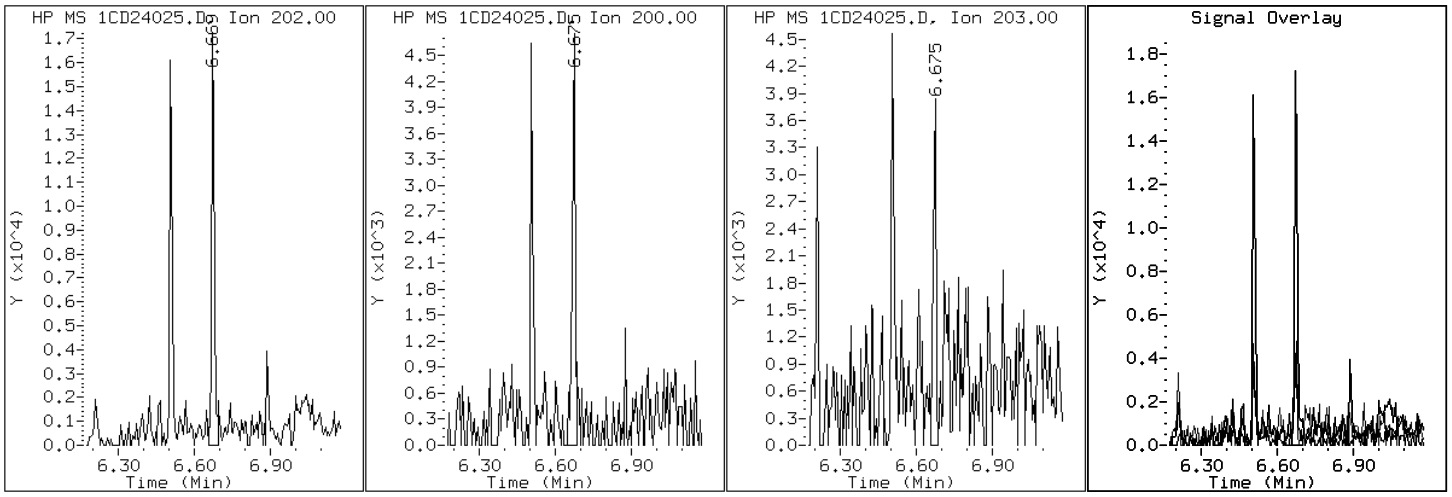
Client ID: CV1176B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-5-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24025.D
Inj. Date and Time: 24-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV1176B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

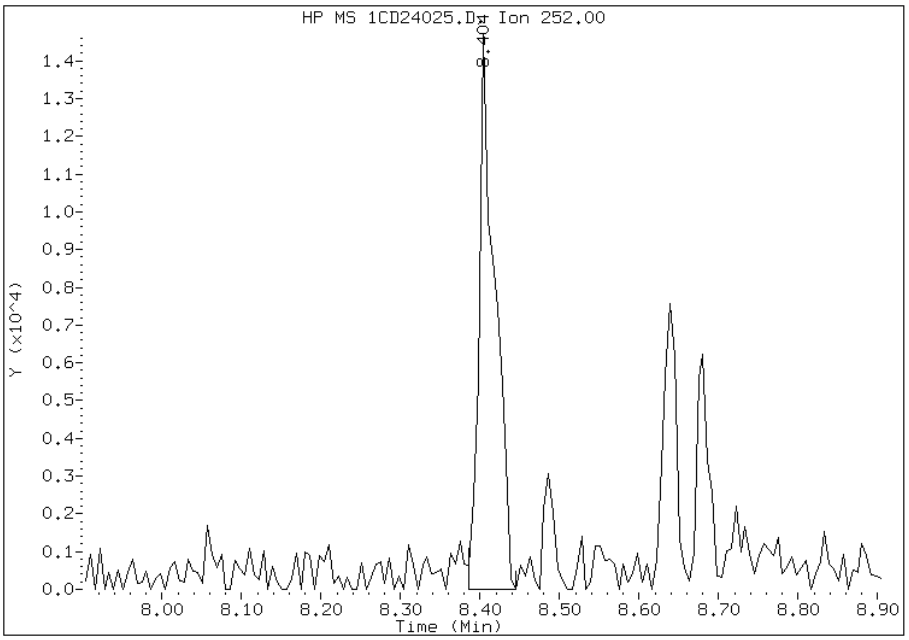
Processing Integration Results

RT: 8.40

Response: 20572

Amount: 4

Conc: 328



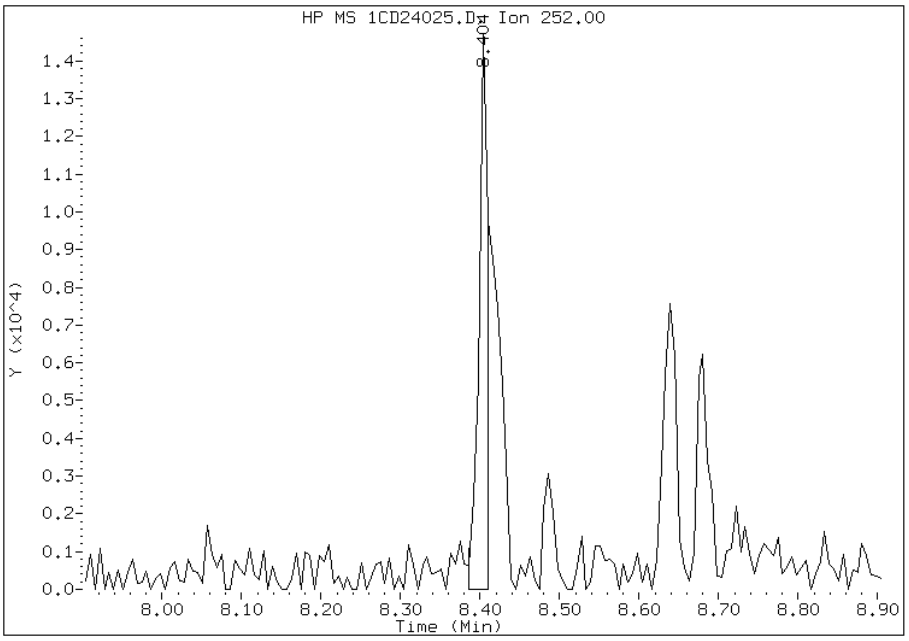
Manual Integration Results

RT: 8.40

Response: 11645

Amount: 2

Conc: 185



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24025.D
Inj. Date and Time: 24-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV1176B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

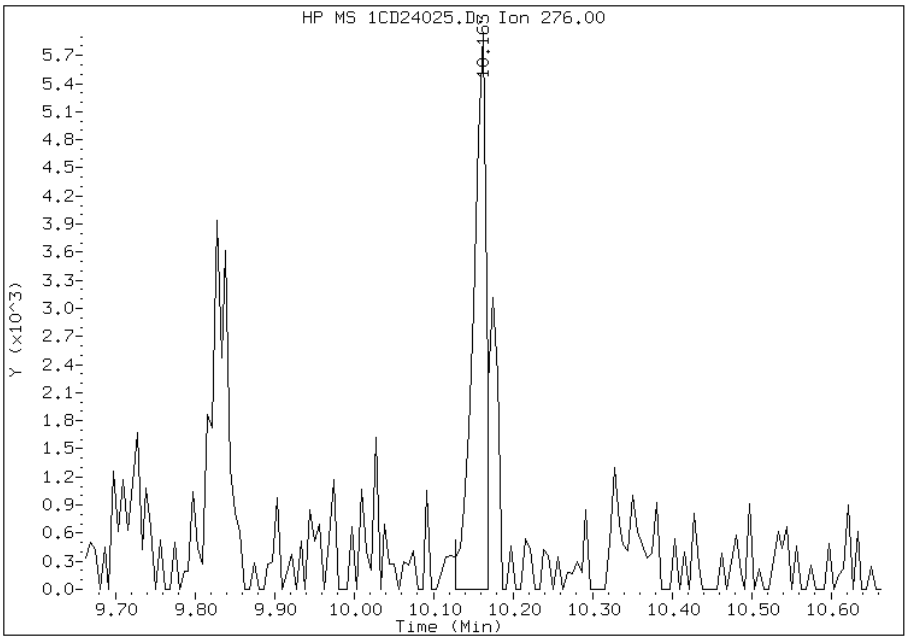
Processing Integration Results

RT: 10.16

Response: 6819

Amount: 1

Conc: 119



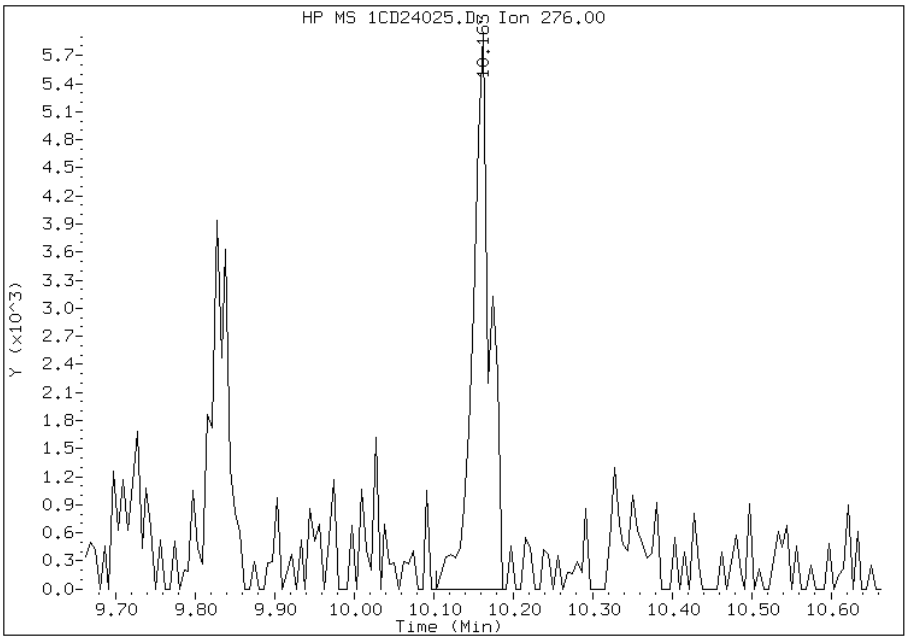
Manual Integration Results

RT: 10.16

Response: 9055

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24025.D
Inj. Date and Time: 24-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV1176B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

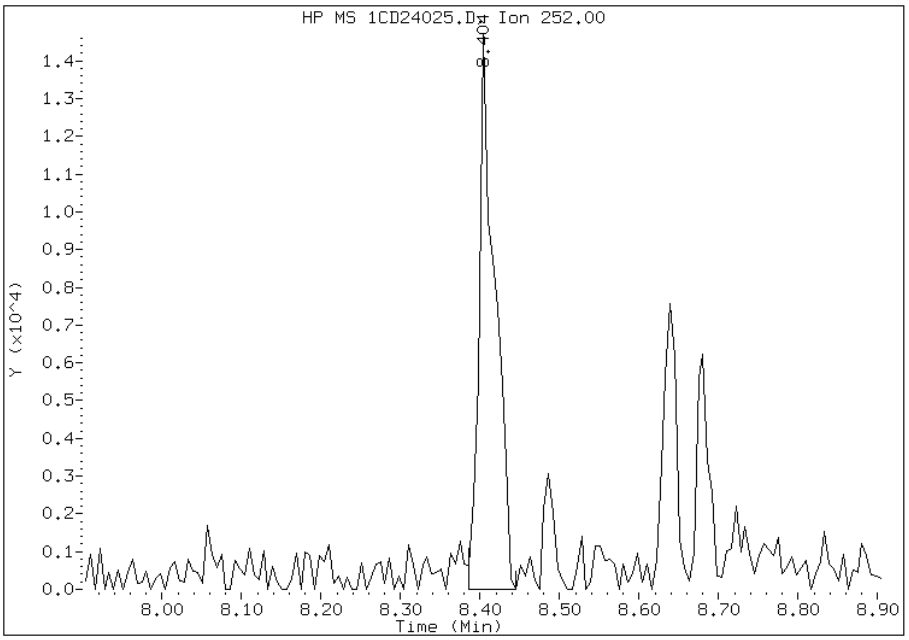
Processing Integration Results

RT: 8.40

Response: 20572

Amount: 4

Conc: 337



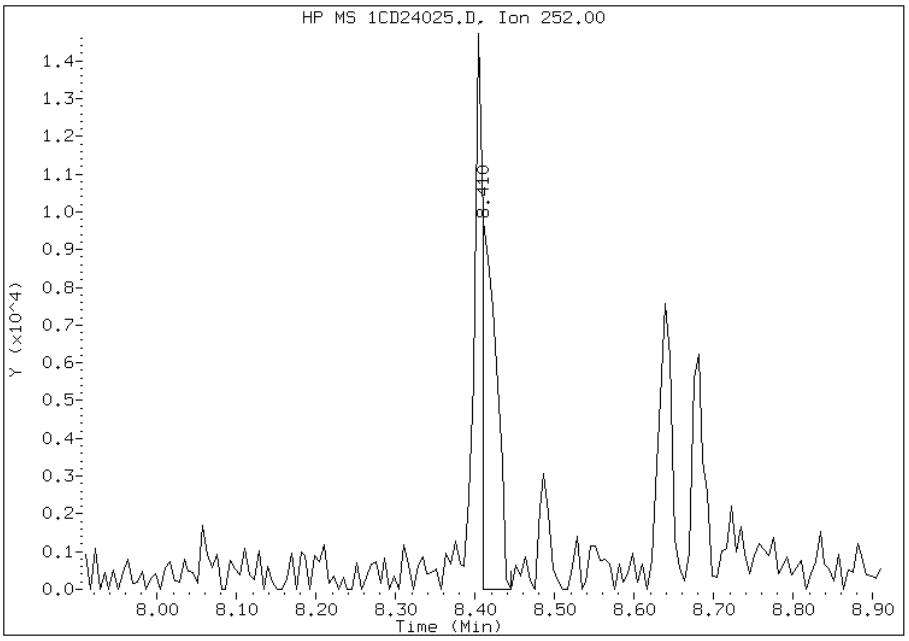
Manual Integration Results

RT: 8.41

Response: 12357

Amount: 2

Conc: 202



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24025.D
Inj. Date and Time: 24-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV1176B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

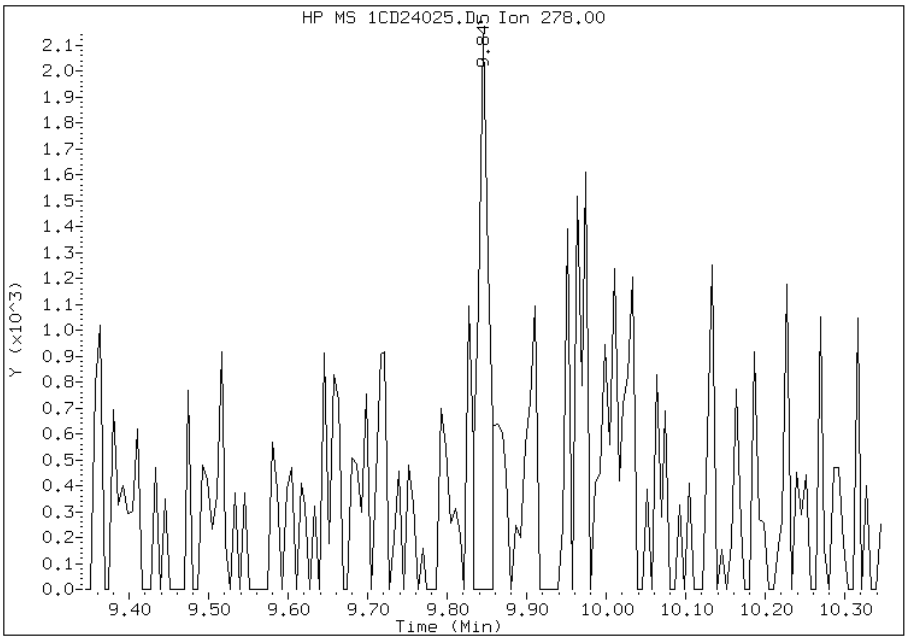
Processing Integration Results

RT: 9.85

Response: 2005

Amount: 0

Conc: 36



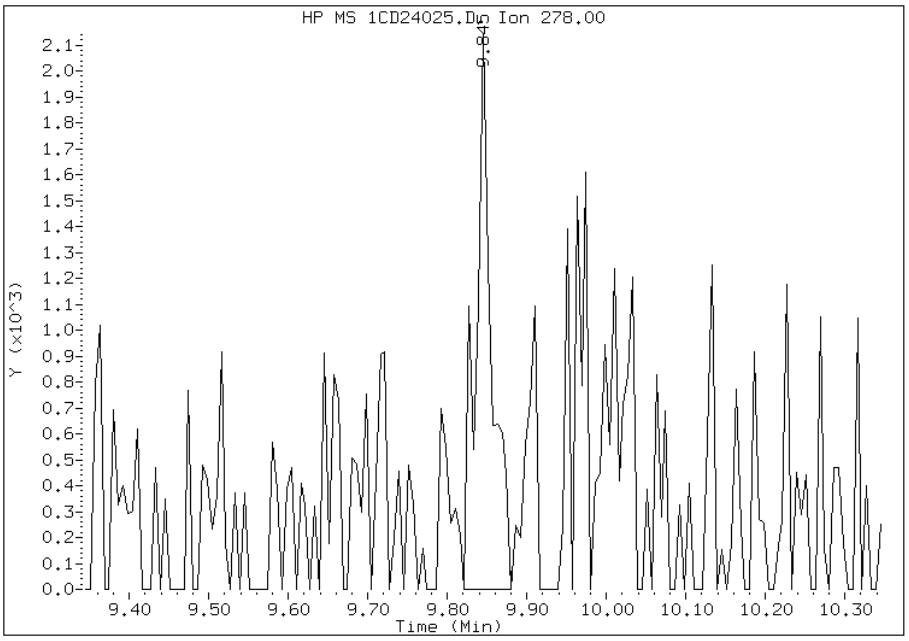
Manual Integration Results

RT: 9.85

Response: 2979

Amount: 1

Conc: 54



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24025.D
Inj. Date and Time: 24-APR-2013 19:42
Instrument ID: BSMC5973.i
Client ID: CV1176B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

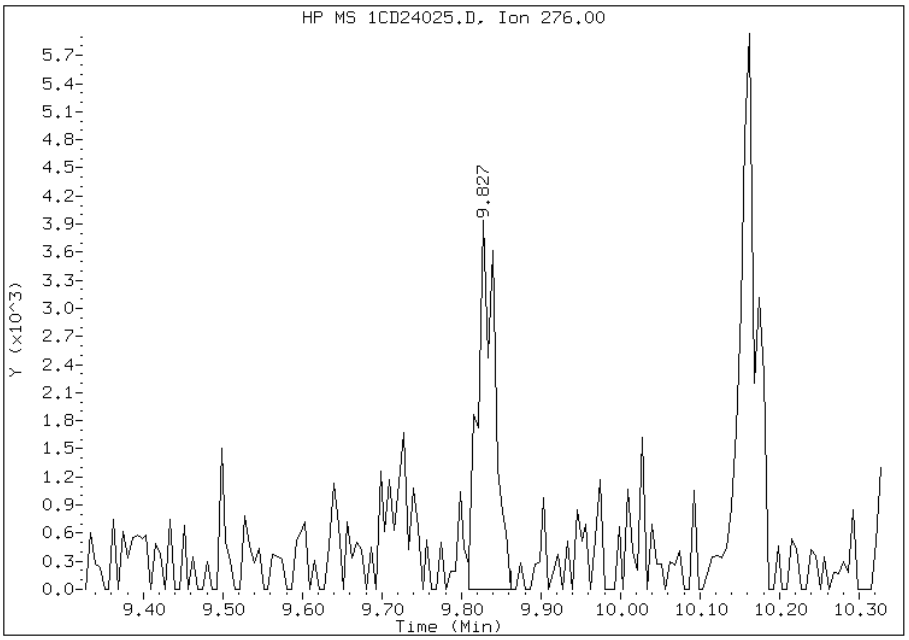
Processing Integration Results

RT: 9.83

Response: 5862

Amount: 2

Conc: 150



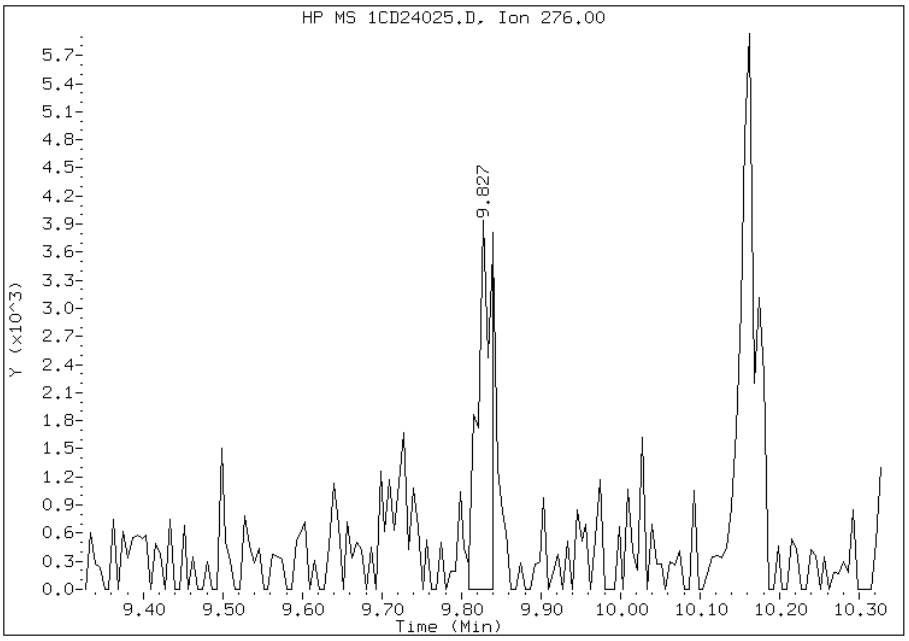
Manual Integration Results

RT: 9.83

Response: 4901

Amount: 1

Conc: 135



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: HP0063A-CS-SP | Lab Sample ID: 680-89513-6

Matrix: Solid | Lab File ID: 1CD24026.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:05

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.91(g) | Date Analyzed: 04/24/2013 20:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	46	U	46	5.8
120-12-7	Anthracene	9.7	U	9.7	4.9
56-55-3	Benzo[a]anthracene	80		9.2	4.5
50-32-8	Benzo[a]pyrene	80		12	6.0
205-99-2	Benzo[b]fluoranthene	130		14	7.0
191-24-2	Benzo[g,h,i]perylene	66		23	5.1
207-08-9	Benzo[k]fluoranthene	46		9.2	4.2
218-01-9	Chrysene	80		10	5.2
53-70-3	Dibenz(a,h)anthracene	26		23	4.7
206-44-0	Fluoranthene	120		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	96		23	8.2
90-12-0	1-Methylnaphthalene	50		46	5.1
91-57-6	2-Methylnaphthalene	85		46	8.2
91-20-3	Naphthalene	40	J	46	5.1
85-01-8	Phenanthrene	96		9.2	4.5
129-00-0	Pyrene	96		23	4.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24026.D
Lab Smp Id: 680-89513-A-6-A Client Smp ID: HP0063A-CS-SP
Inj Date : 24-APR-2013 20:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-6-a
Misc Info : 680-89513-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 22
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	12.910	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	173394	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	106100	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	198913	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	21078	7.29847	562.0660
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	228028	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	209409	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	2229	0.51584	39.7259(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	1655	1.10080	84.7741(Q)
4 1-Methylnaphthalene	142	4.139	4.134	(1.139)	1695	0.65484	50.4301(Q)
11 Phenanthrene	178	5.674	5.675	(1.002)	6780	1.24488	95.8701
13 Carbazole	167	5.816	5.822	(1.027)	1393	0.25446	19.5965
15 Fluoranthene	202	6.504	6.504	(1.149)	10527	1.57529	121.3156
16 Pyrene	202	6.674	6.675	(0.879)	8366	1.24227	95.6689
17 Benzo(a)anthracene	228	7.586	7.581	(0.999)	6697	1.04351	80.3622(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	7.610	7.610	(1.002)	6789	1.04262	80.2938
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	9623	1.66154	127.9578(M)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	3370	0.59802	46.0545(QM)
22 Benzo(a)pyrene	252	8.680	8.686	(0.993)	4671	1.03454	79.6712(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.124)	3640	1.24343	95.7586(MH)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	1721	0.33892	26.1008(H)
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.163)	4564	0.86317	66.4736

QC Flag Legend

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

Data File: 1CD24026.D

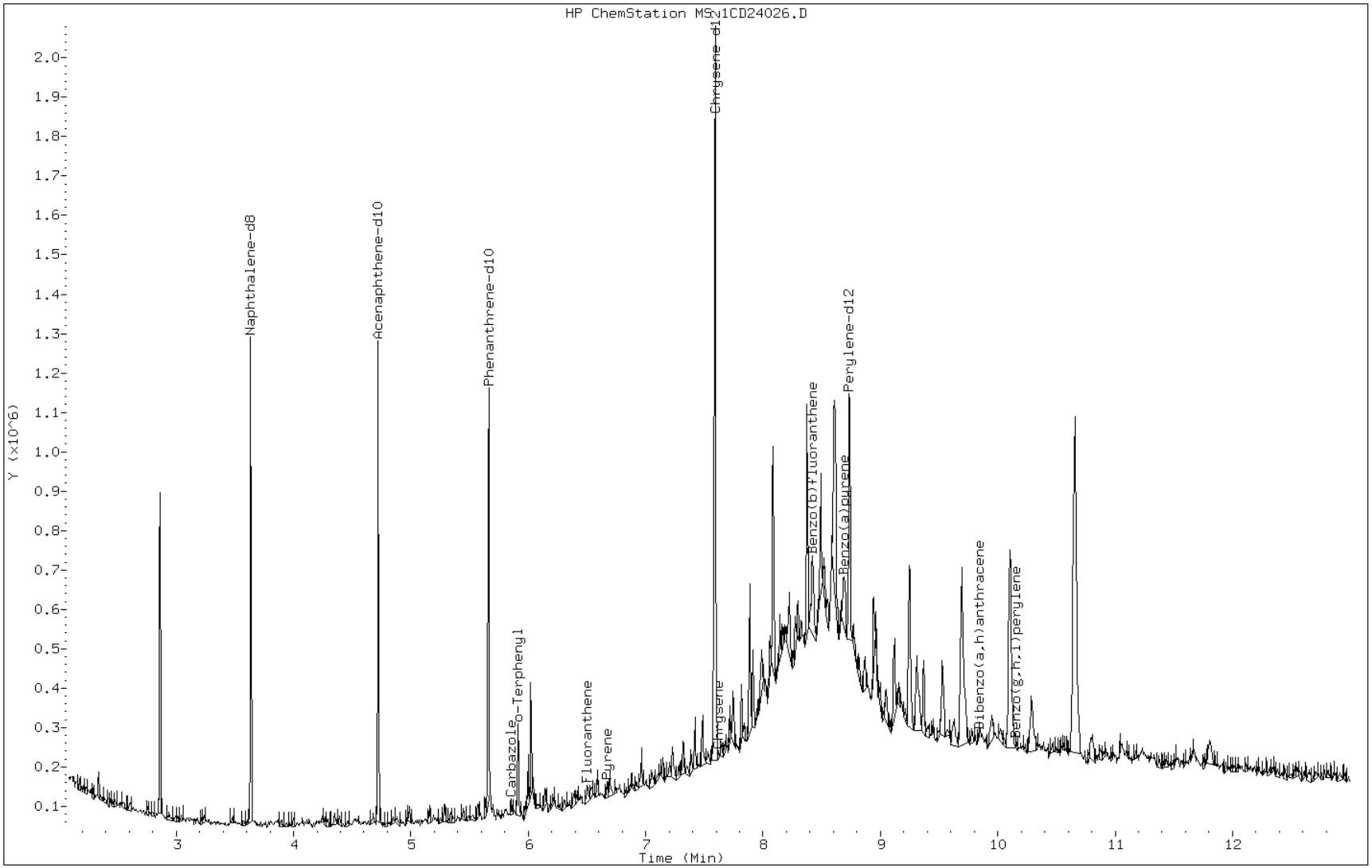
Date: 24-APR-2013 20:00

Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

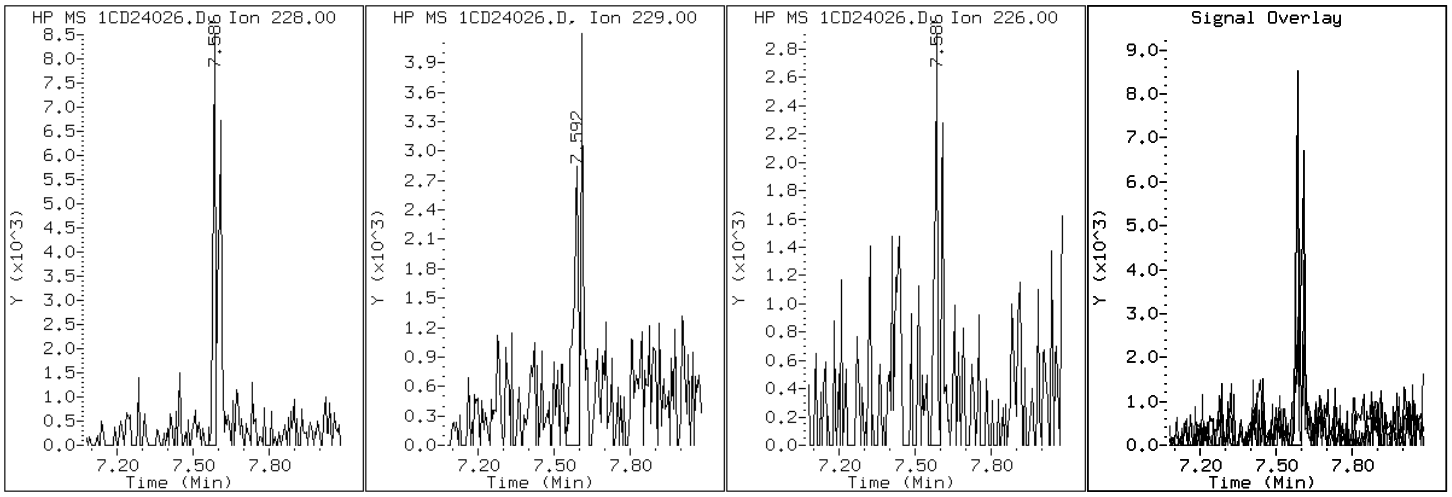
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

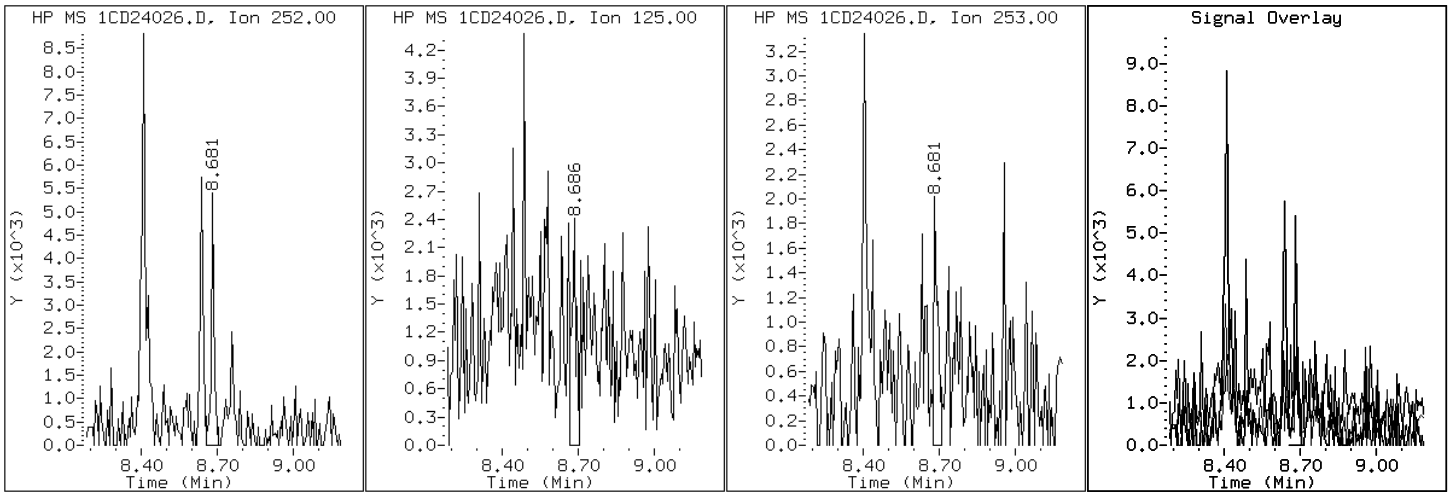
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

22 Benzo(a)pyrene



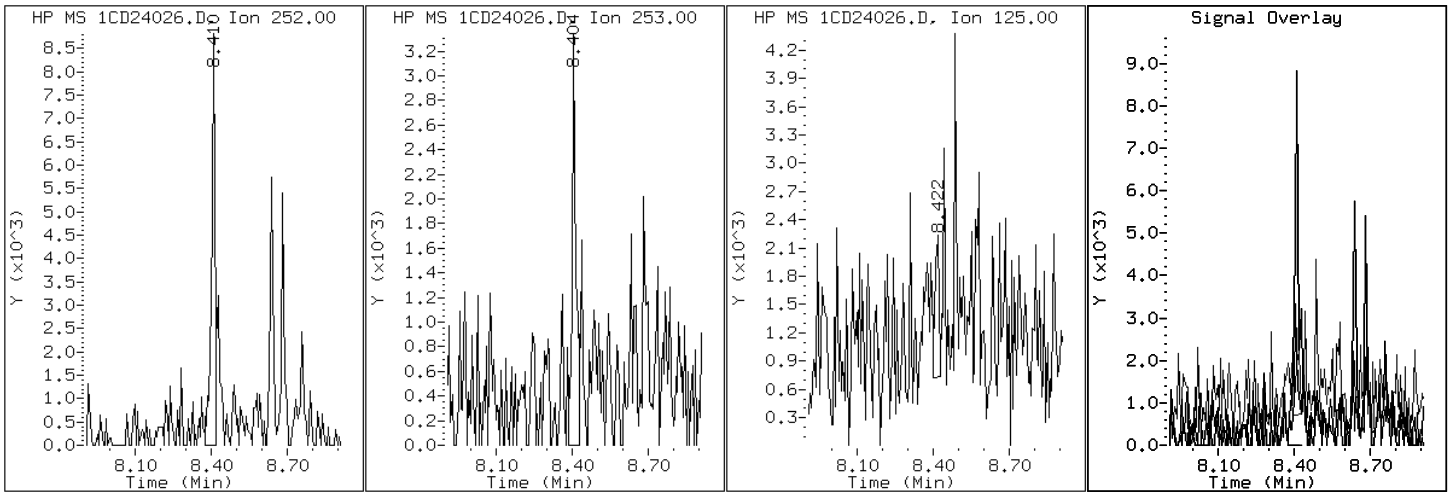
Data File: 1CD24026.D

Date: 24-APR-2013 20:00

Client ID: HP0063A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

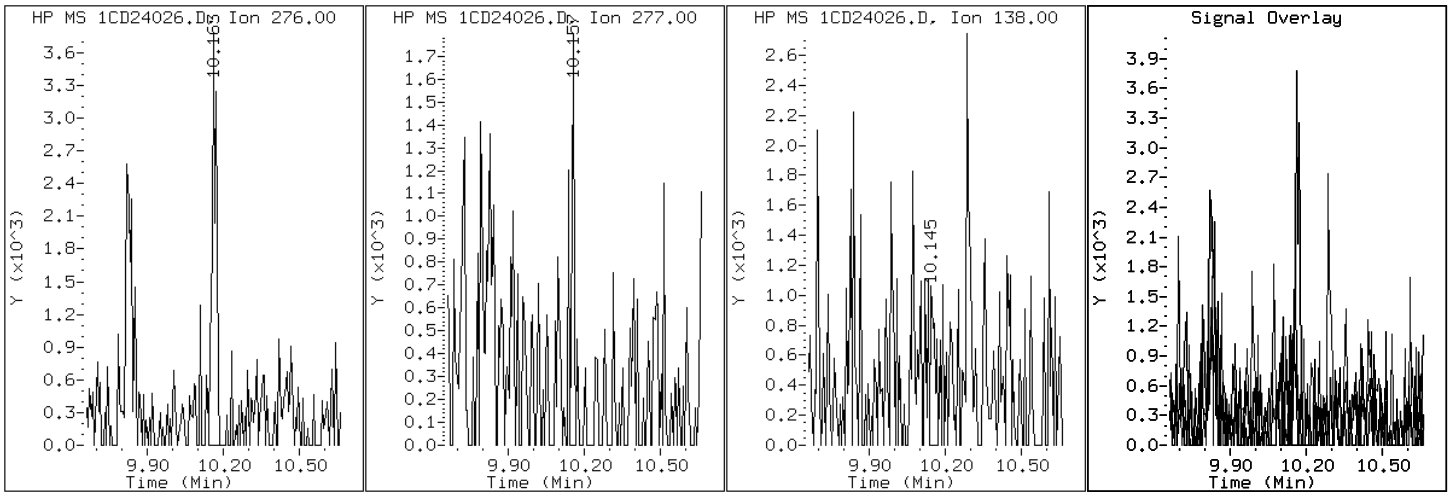
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

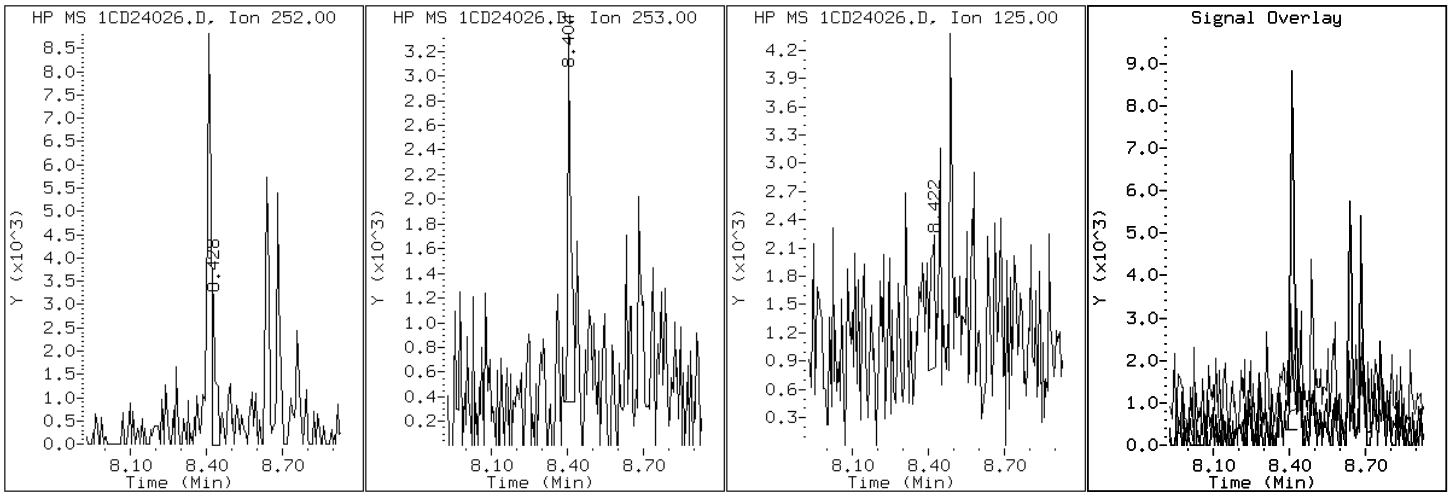
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

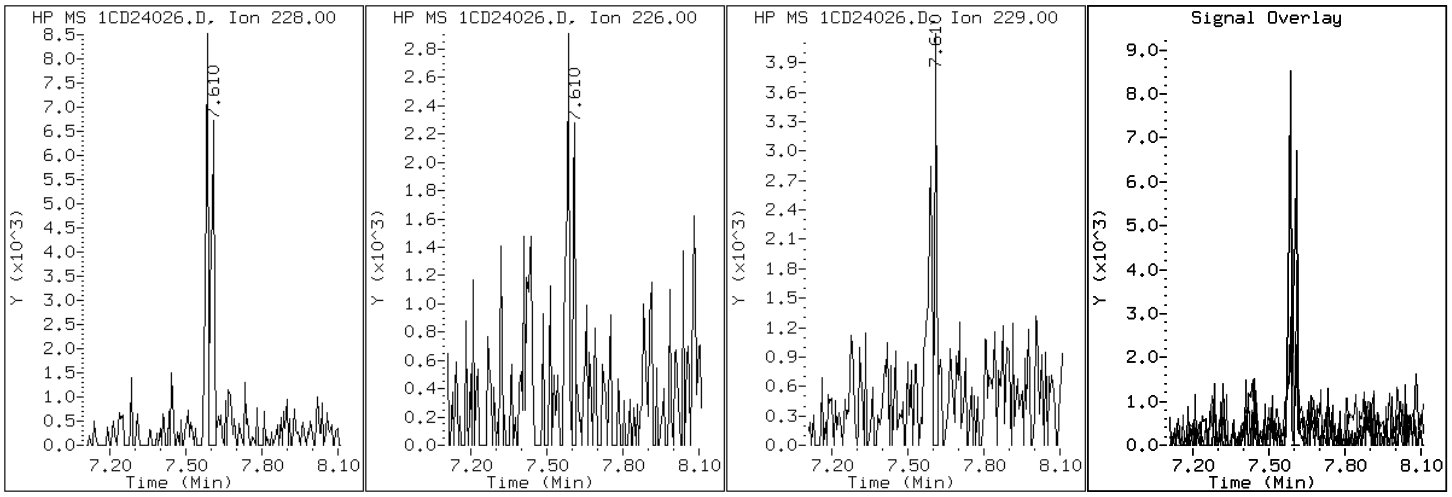
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

19 Chrysene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

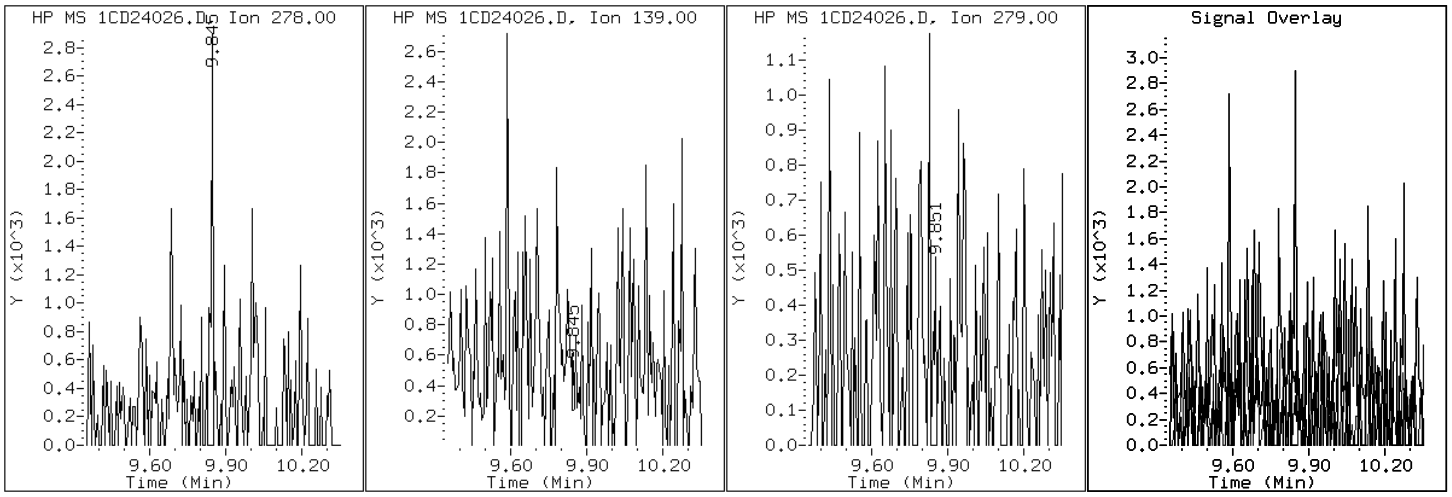
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

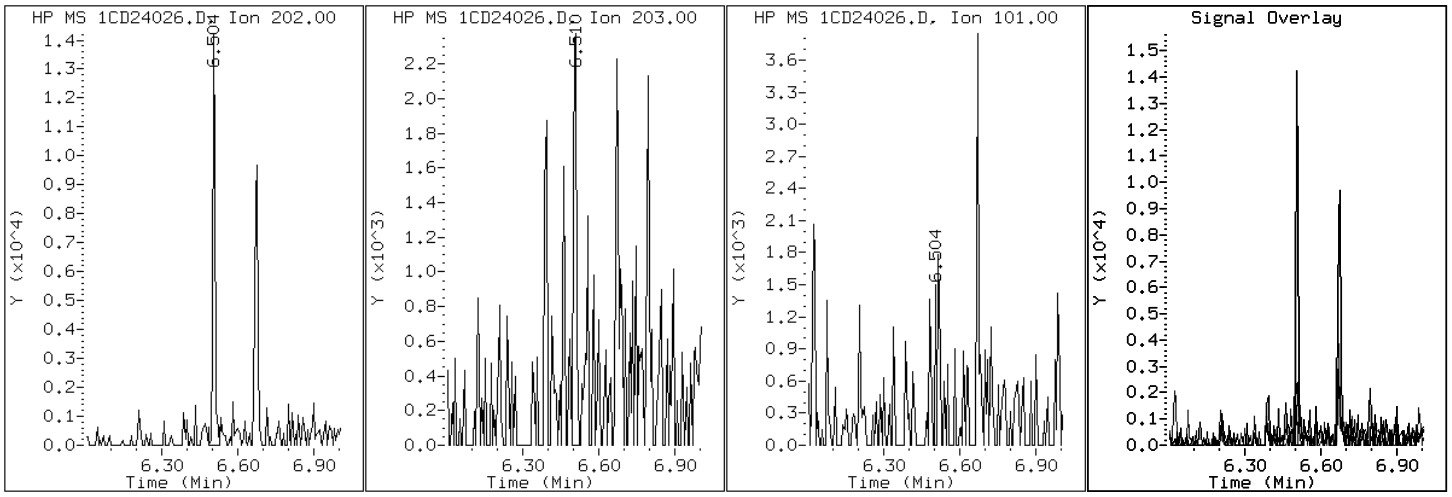
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

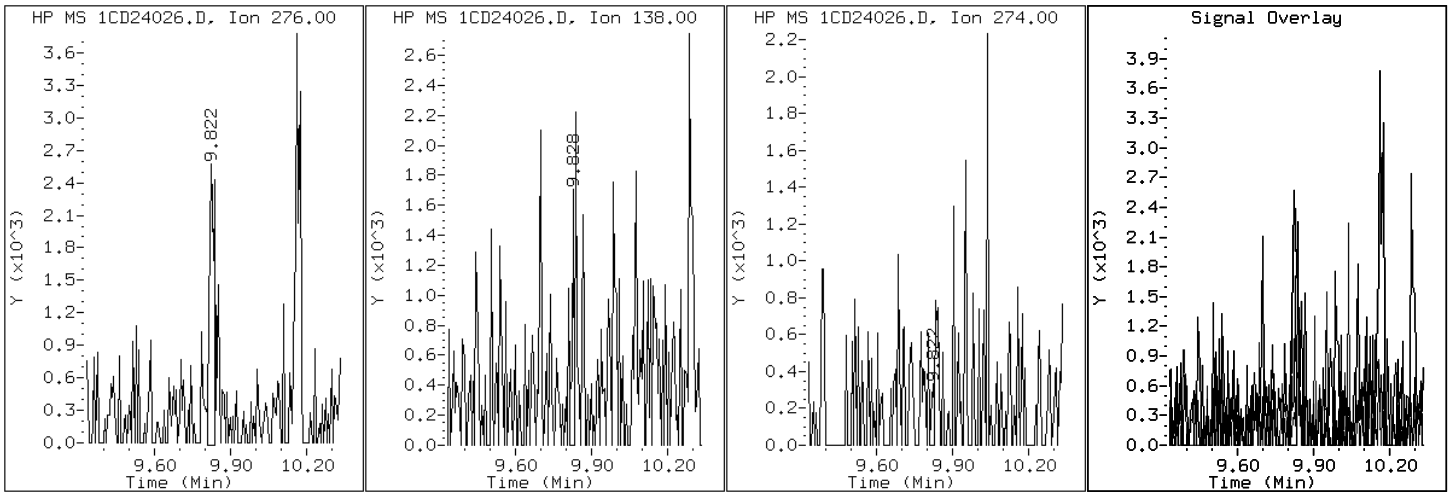
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

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



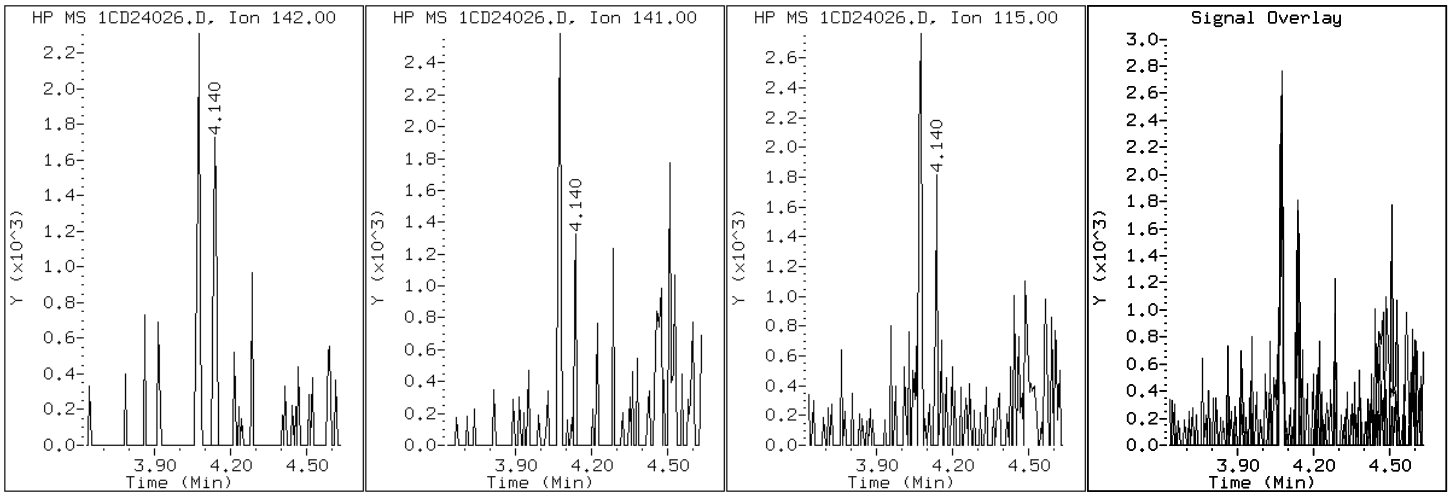
Data File: 1CD24026.D

Date: 24-APR-2013 20:00

Client ID: HP0063A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

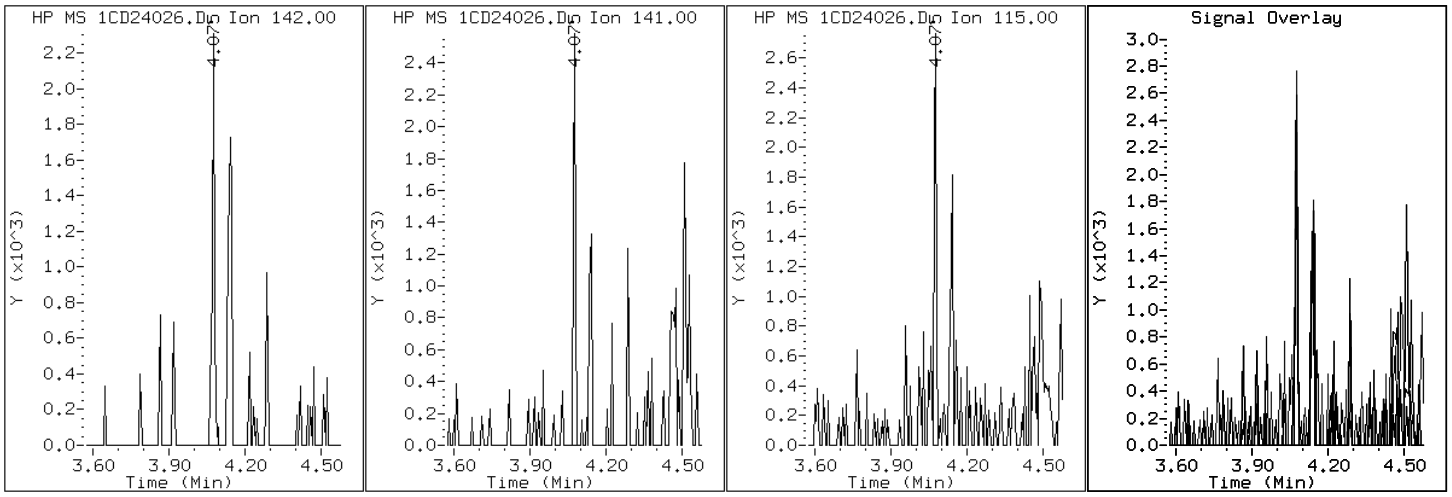
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

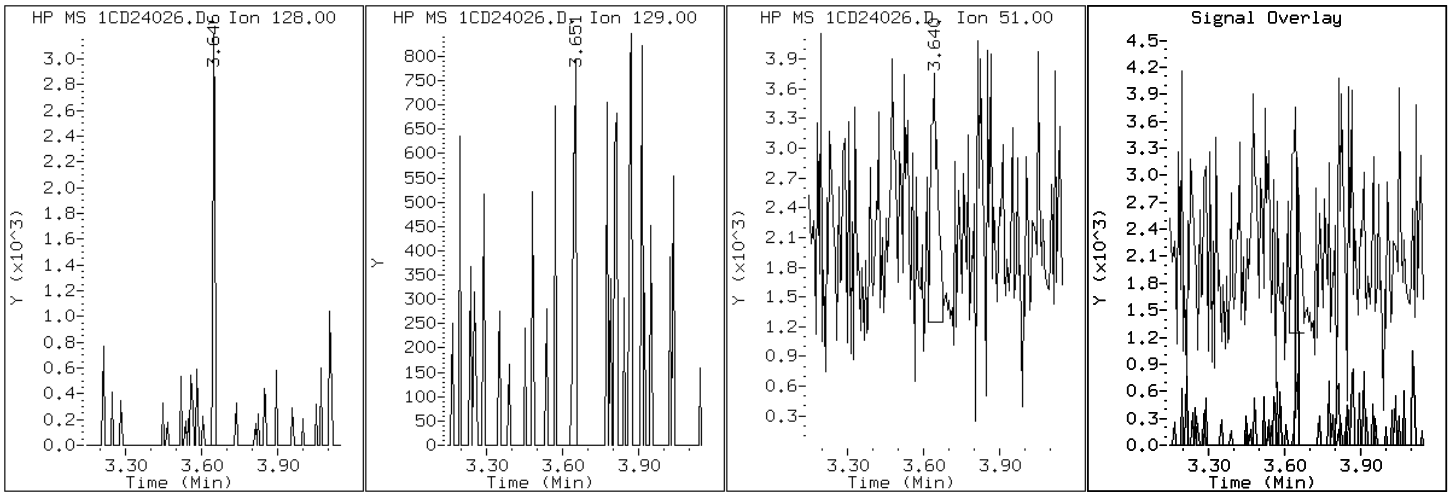
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

2 Naphthalene



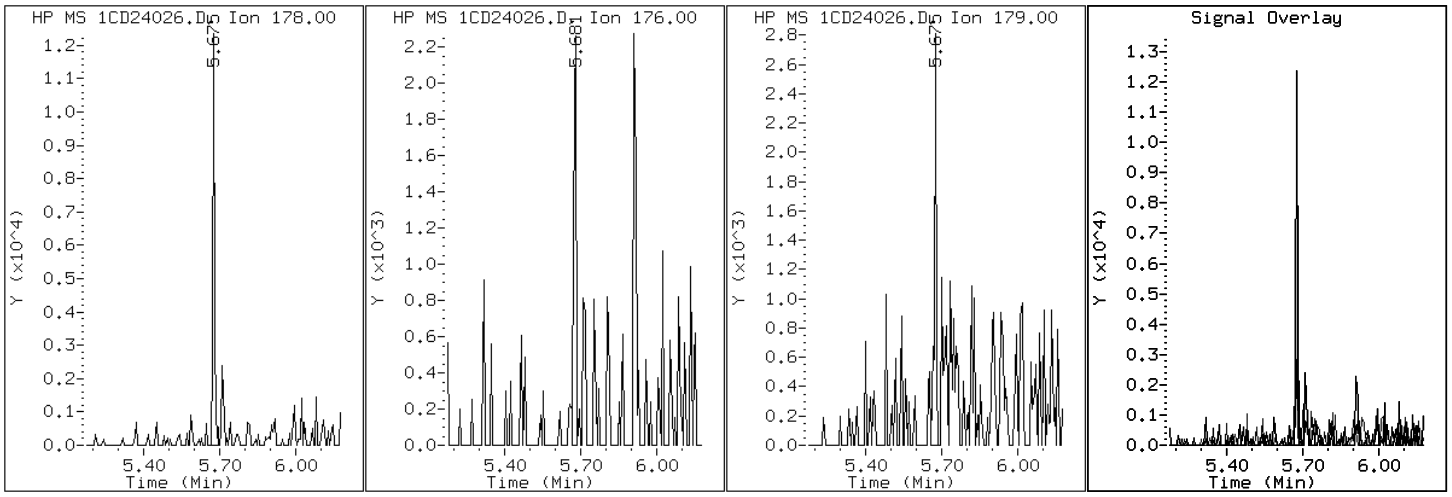
Data File: 1CD24026.D

Date: 24-APR-2013 20:00

Client ID: HP0063A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a Operator: SCC

11 Phenanthrene



Data File: 1CD24026.D

Date: 24-APR-2013 20:00

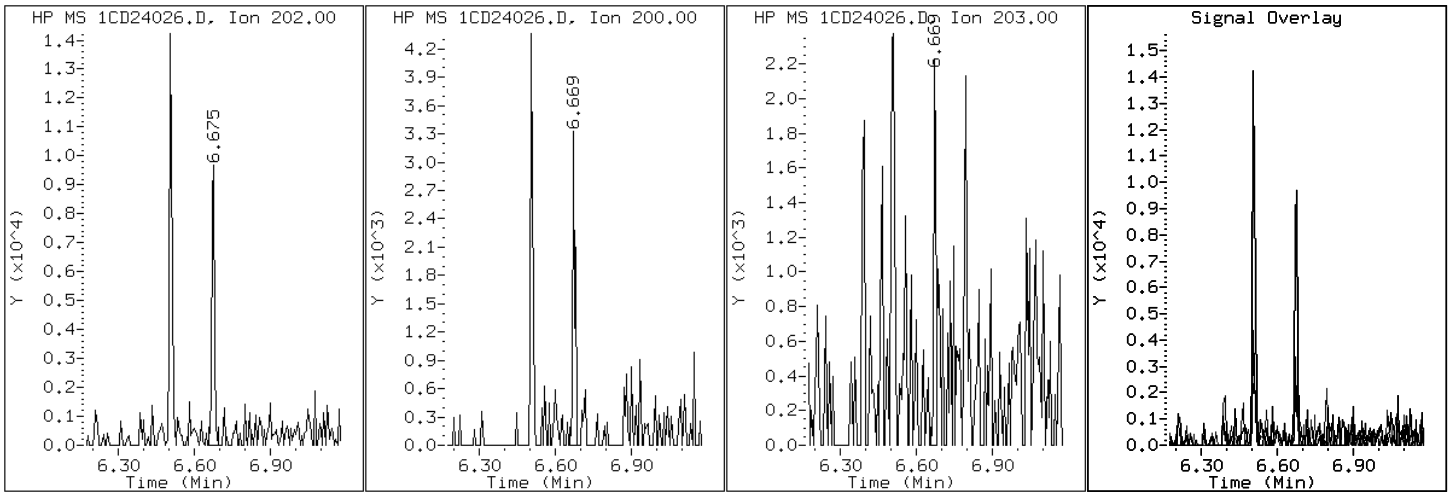
Client ID: HP0063A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-6-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24026.D
Inj. Date and Time: 24-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0063A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

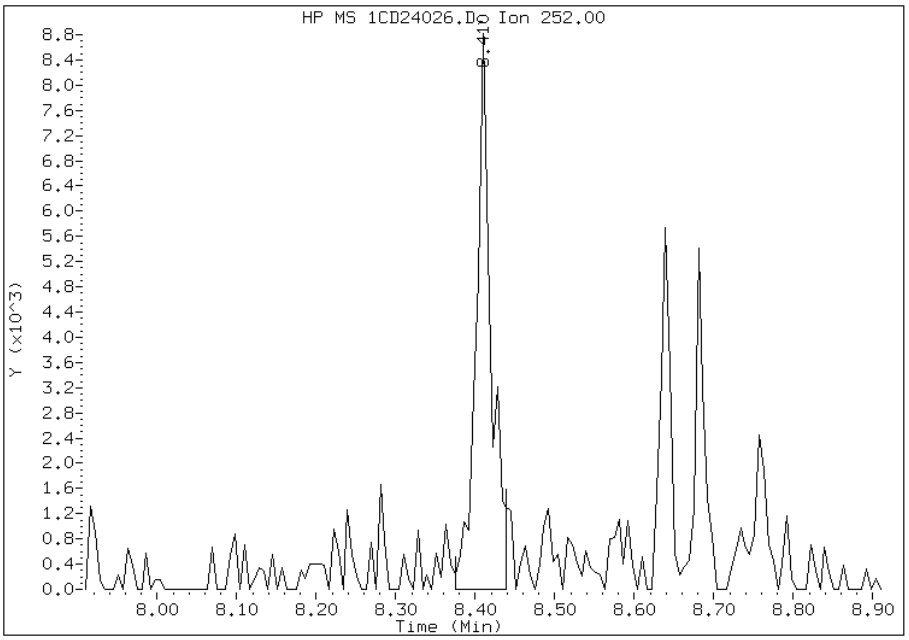
Processing Integration Results

RT: 8.41

Response: 11703

Amount: 2

Conc: 156



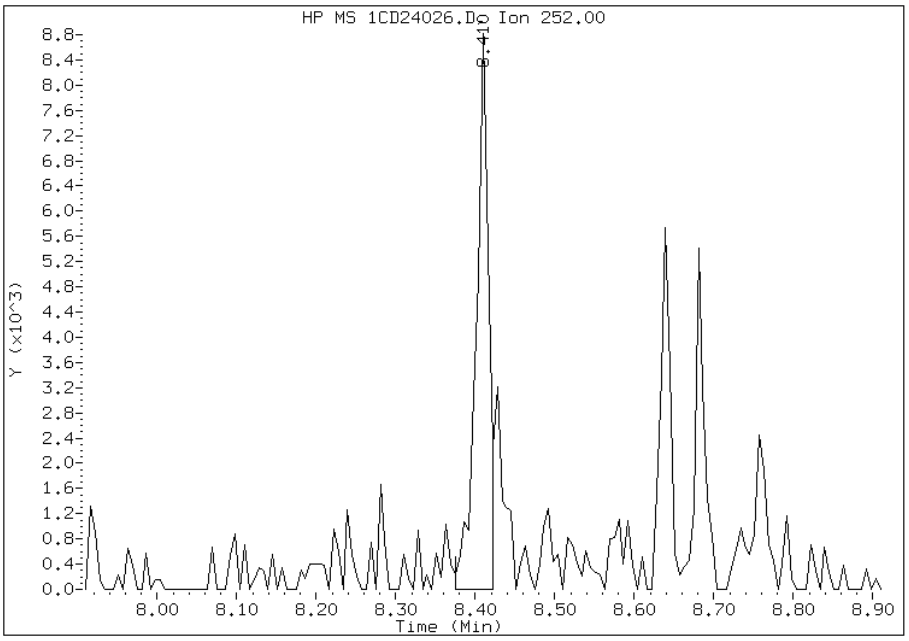
Manual Integration Results

RT: 8.41

Response: 9623

Amount: 2

Conc: 128



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24026.D
Inj. Date and Time: 24-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0063A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

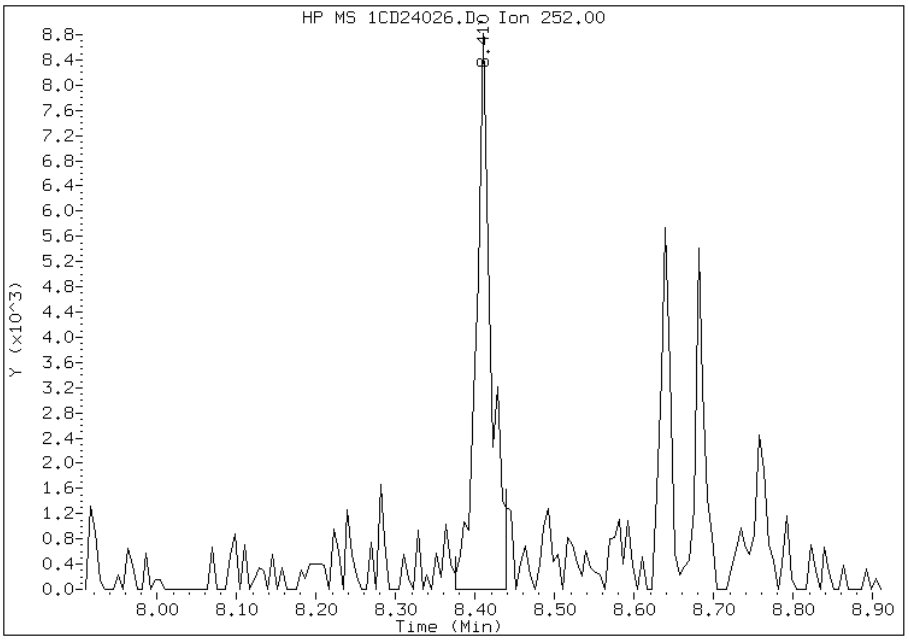
Processing Integration Results

RT: 8.41

Response: 11703

Amount: 2

Conc: 160



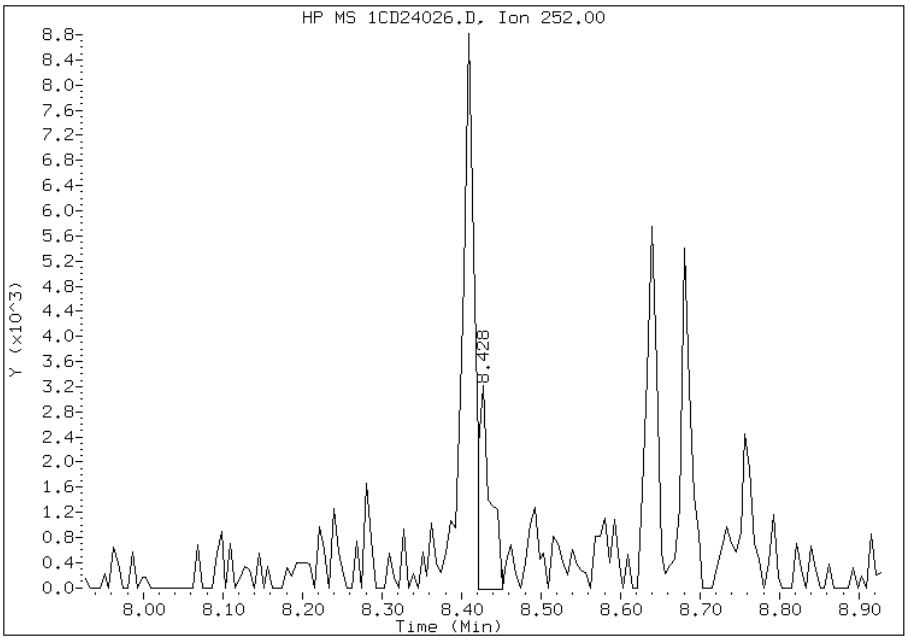
Manual Integration Results

RT: 8.43

Response: 3370

Amount: 1

Conc: 46



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24026.D
Inj. Date and Time: 24-APR-2013 20:00
Instrument ID: BSMC5973.i
Client ID: HP0063A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

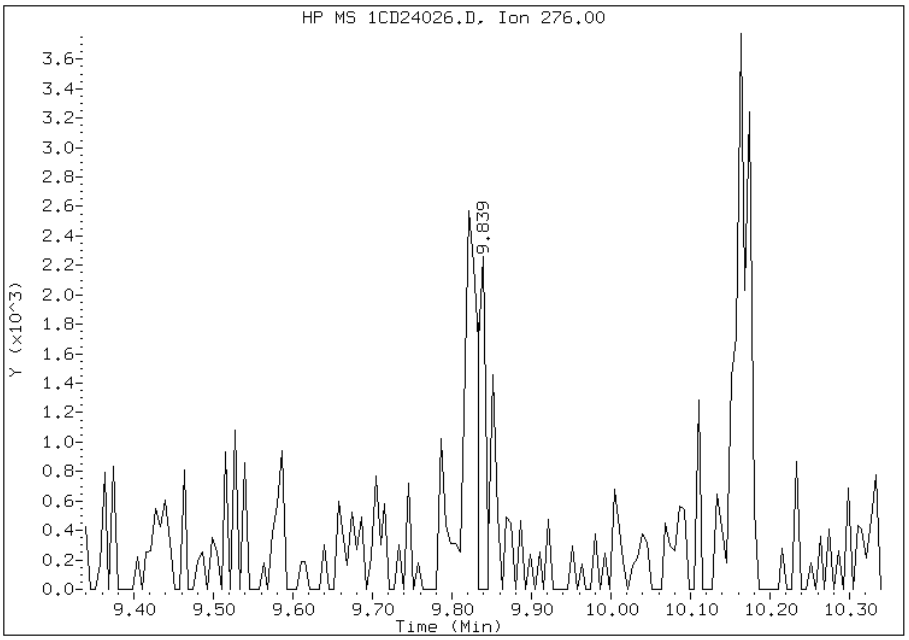
Processing Integration Results

RT: 9.84

Response: 1500

Amount: 1

Conc: 67



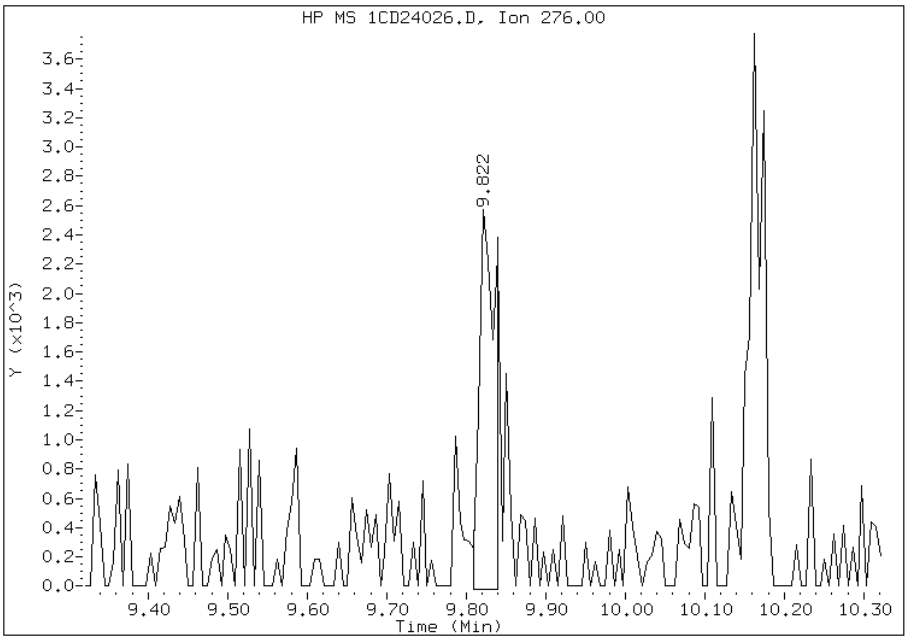
Manual Integration Results

RT: 9.82

Response: 3640

Amount: 1

Conc: 96



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:56
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: HP0063B-CS-SP | Lab Sample ID: 680-89513-7

Matrix: Solid | Lab File ID: 1CD24027.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:20

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.93(g) | Date Analyzed: 04/24/2013 20:19

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	49		10	5.1
56-55-3	Benzo[a]anthracene	18		9.8	4.8
50-32-8	Benzo[a]pyrene	61		13	6.4
205-99-2	Benzo[b]fluoranthene	62		15	7.5
191-24-2	Benzo[g,h,i]perylene	84		24	5.4
207-08-9	Benzo[k]fluoranthene	21		9.8	4.4
218-01-9	Chrysene	83		11	5.5
53-70-3	Dibenz(a,h)anthracene	9.1	J	24	5.0
206-44-0	Fluoranthene	72		24	4.9
86-73-7	Fluorene	11	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	90		24	8.7
90-12-0	1-Methylnaphthalene	59		49	5.4
91-57-6	2-Methylnaphthalene	170		49	8.7
91-20-3	Naphthalene	73		49	5.4
85-01-8	Phenanthrene	240		9.8	4.8
129-00-0	Pyrene	51		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24027.D
Lab Smp Id: 680-89513-A-7-A Client Smp ID: HP0063B-CS-SP
Inj Date : 24-APR-2013 20:19
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-7-a
Misc Info : 680-89513-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 23
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	17.934	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	162412	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	105059	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.663	(1.000)	191462	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	11054	3.97651	324.5472
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	349327	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	195332	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	3813	0.89010	72.6462(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	4817	2.07047	168.9835
4 1-Methylnaphthalene	142	4.139	4.134	(1.139)	1784	0.71840	58.6326
9 Fluorene	166	5.057	5.057	(1.071)	481	0.13086	10.6804(Q)
11 Phenanthrene	178	5.674	5.675	(1.002)	15111	2.88252	235.2596
12 Anthracene	178	5.715	5.710	(1.009)	2656	0.60351	49.2561(Q)
13 Carbazole	167	5.815	5.822	(1.027)	1525	0.28942	23.6209(Q)
15 Fluoranthene	202	6.504	6.504	(1.149)	5766	0.88532	72.2559

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.674	6.675	(0.879)	6492	0.62926	51.3579
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	2988	0.21465	17.5185
19 Chrysene	228	7.598	7.610	(1.001)	10087	1.01121	82.5305
20 Benzo(b)fluoranthene	252	8.403	8.410	(0.962)	4125	0.76357	62.3192(MH)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	1341	0.25512	20.8215(Q)
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	2808	0.74561	60.8540
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	2643	1.10491	90.1780(MH)
25 Dibenzo(a,h)anthracene	278	9.862	9.851	(1.129)	529	0.11169	9.1153(Q)
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.163)	5081	1.03020	84.0804

QC Flag Legend

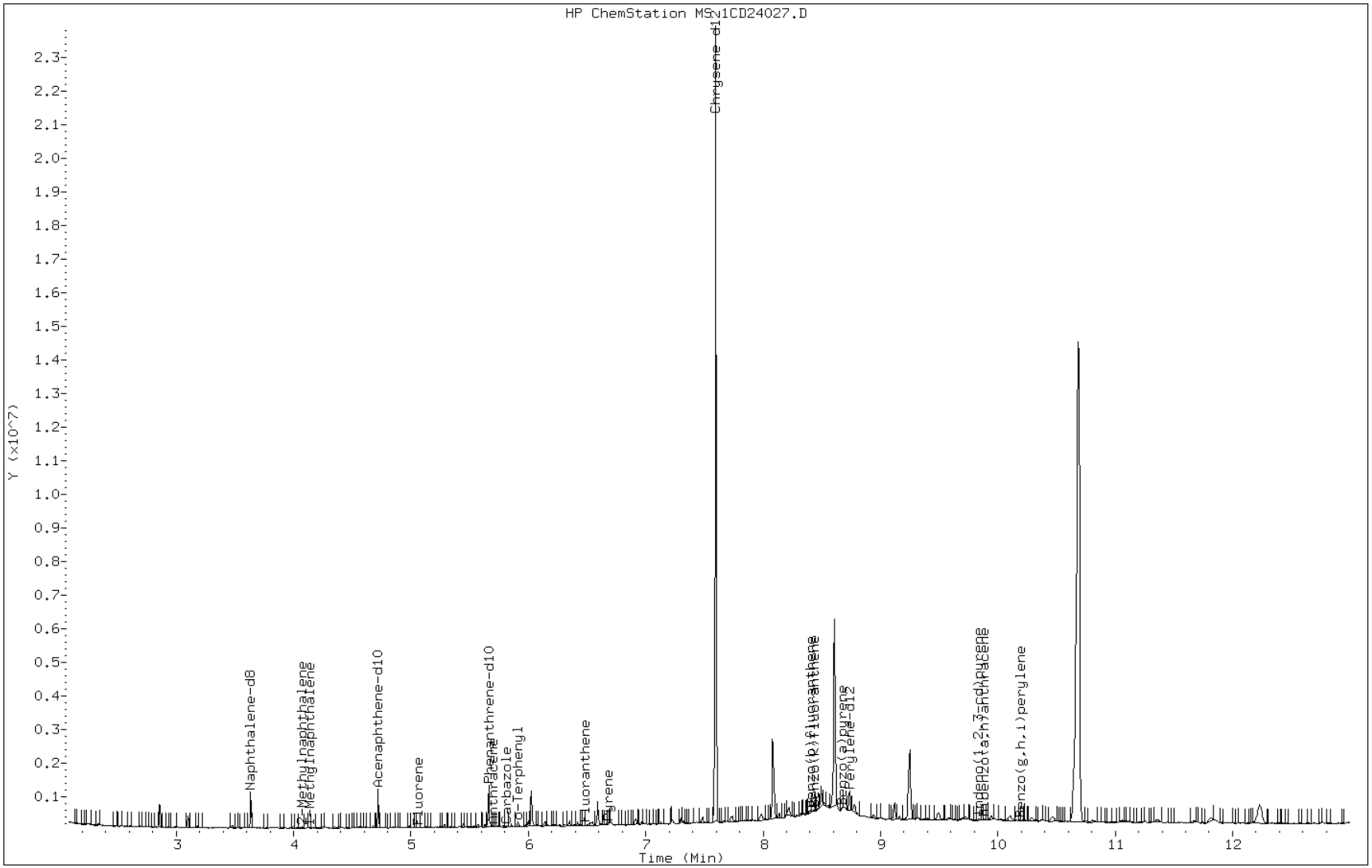
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

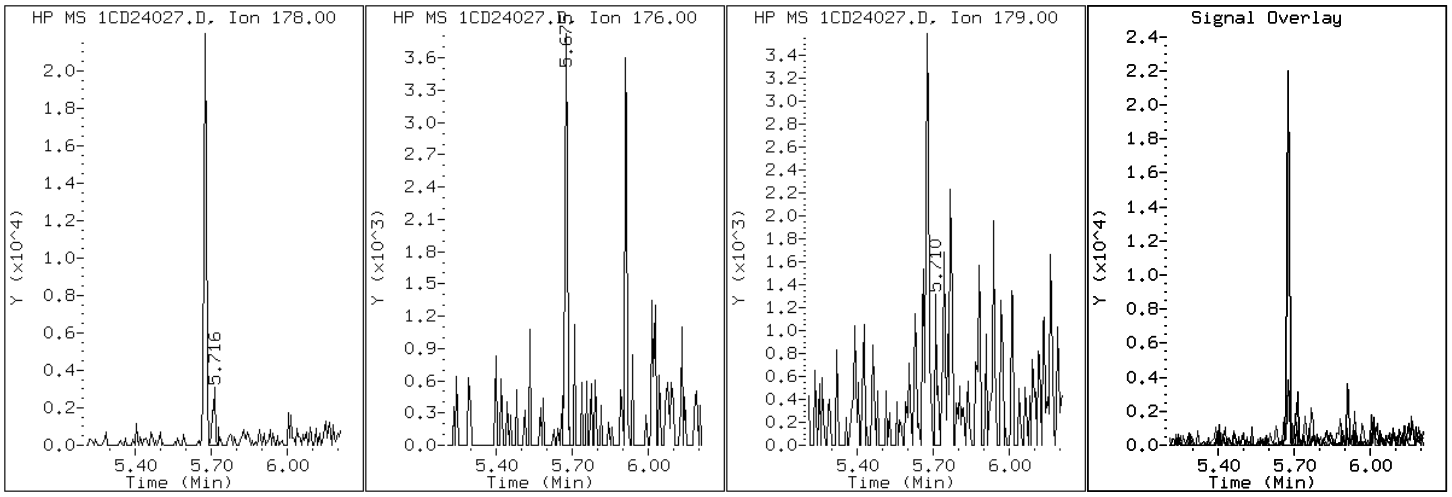
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

12 Anthracene



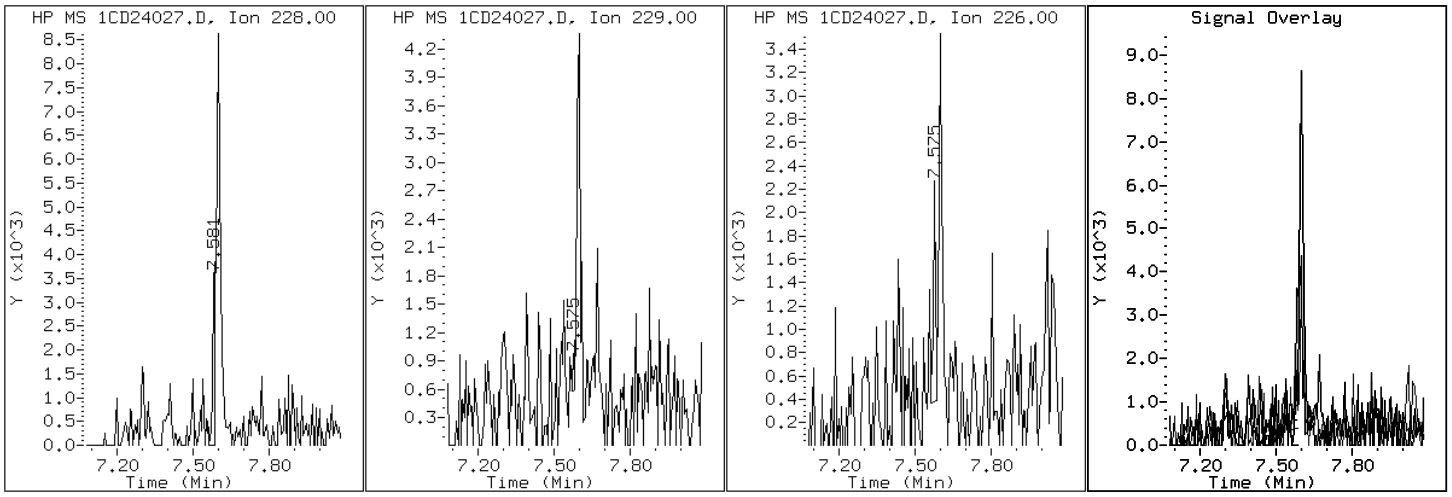
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

17 Benzo(a)anthracene



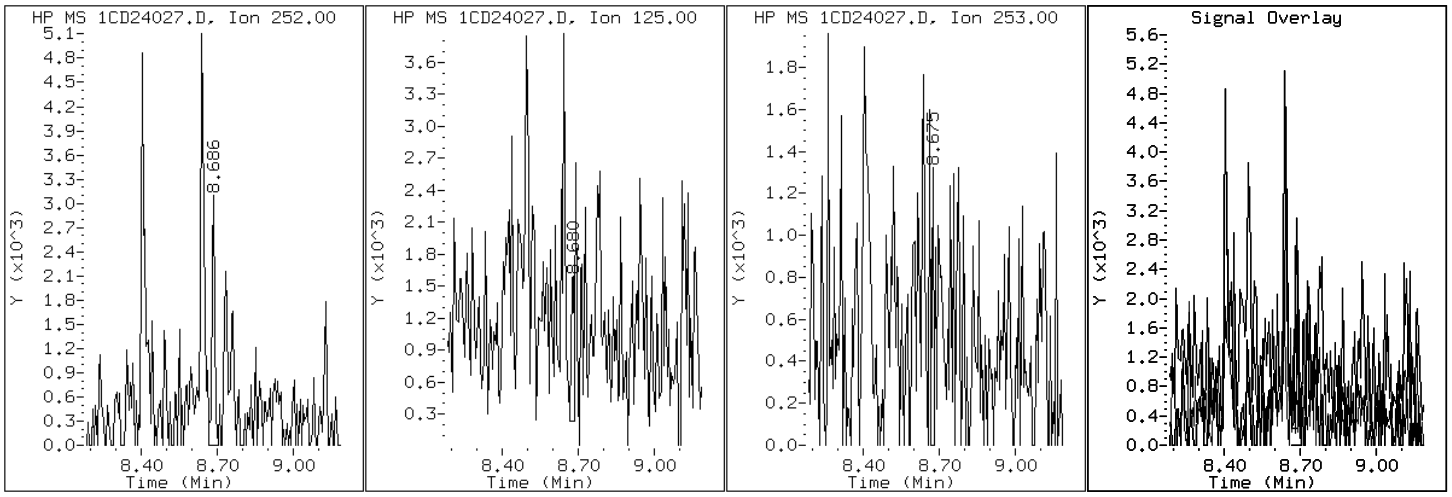
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

22 Benzo(a)pyrene



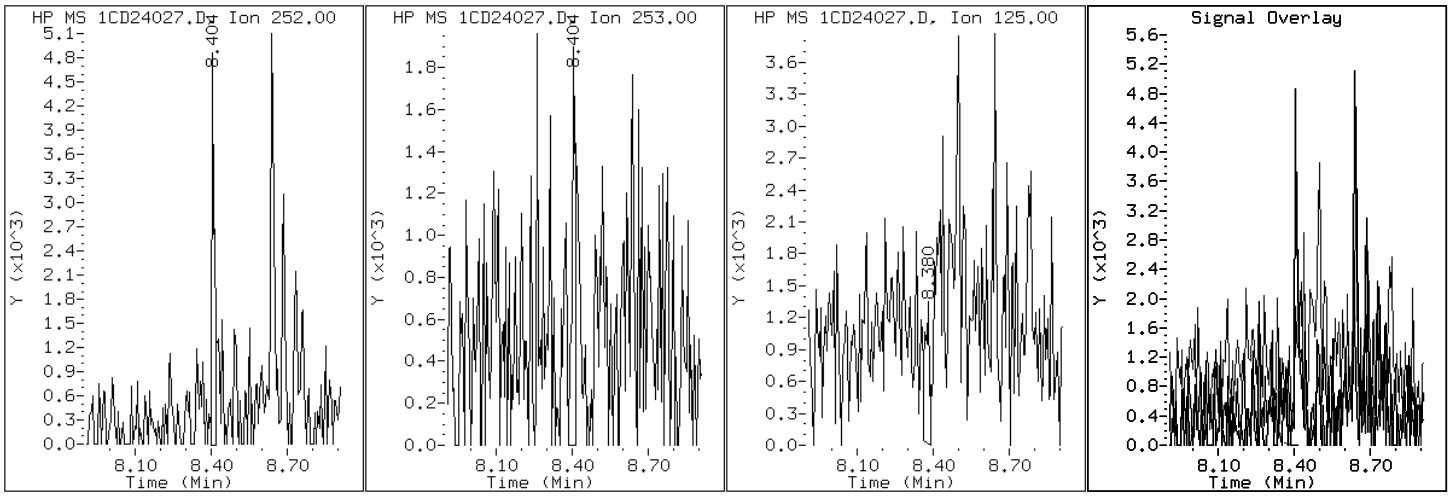
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

20 Benzo(b)fluoranthene



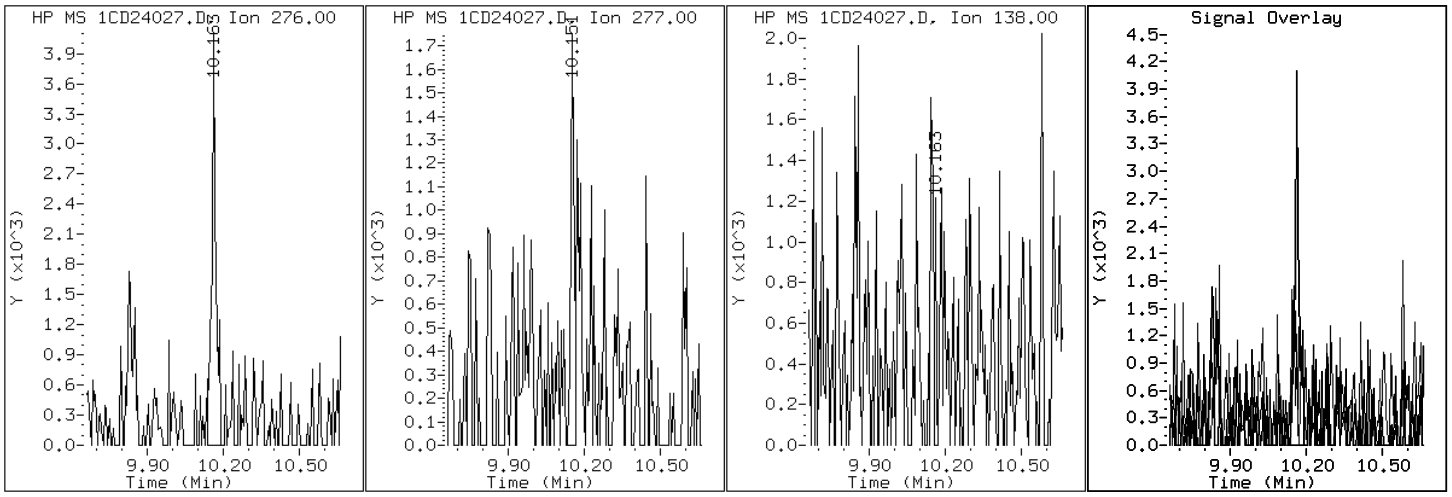
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

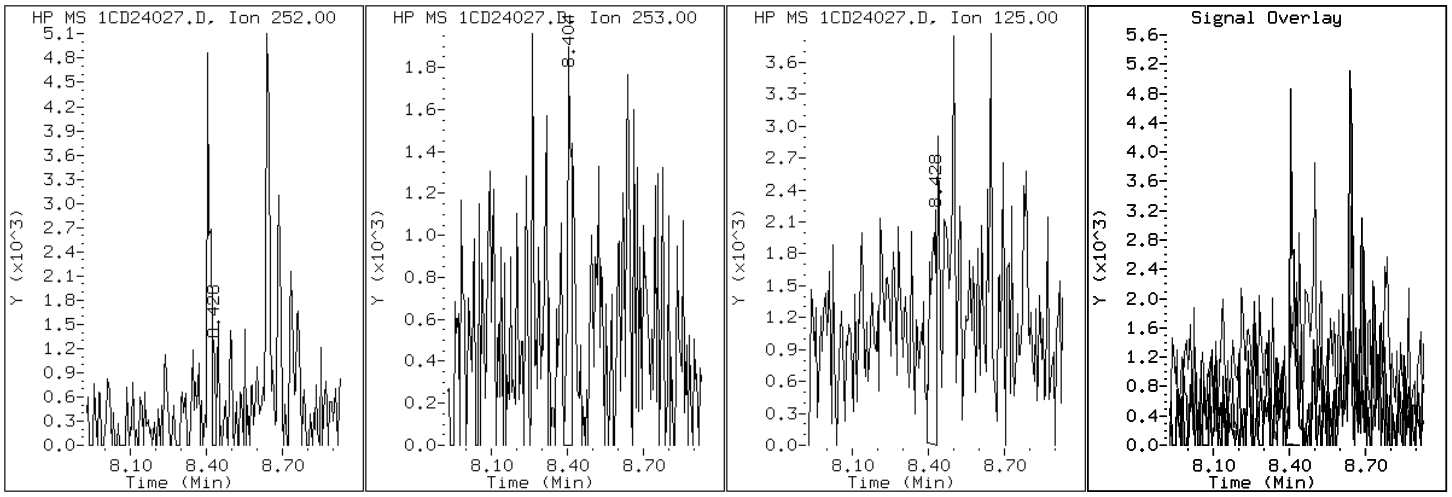
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

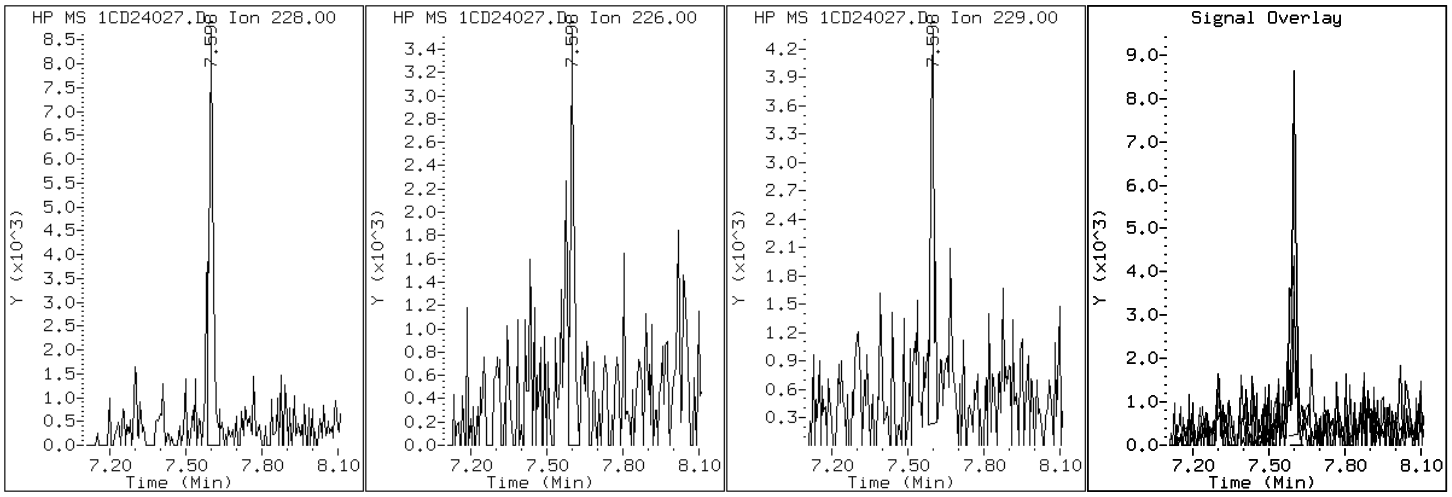
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

19 Chrysene



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

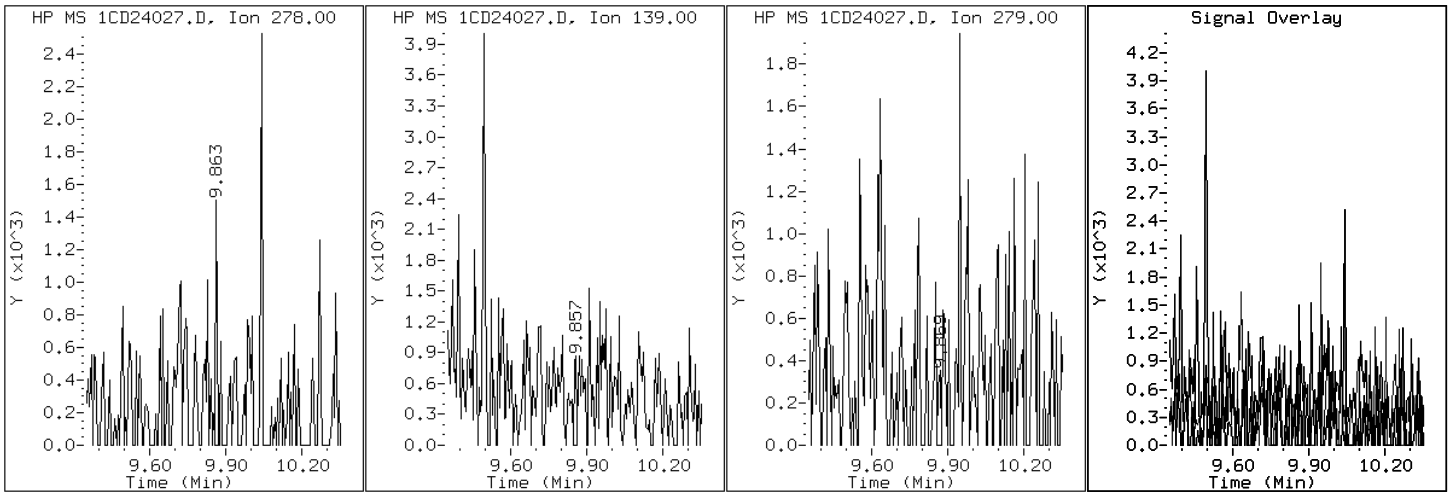
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

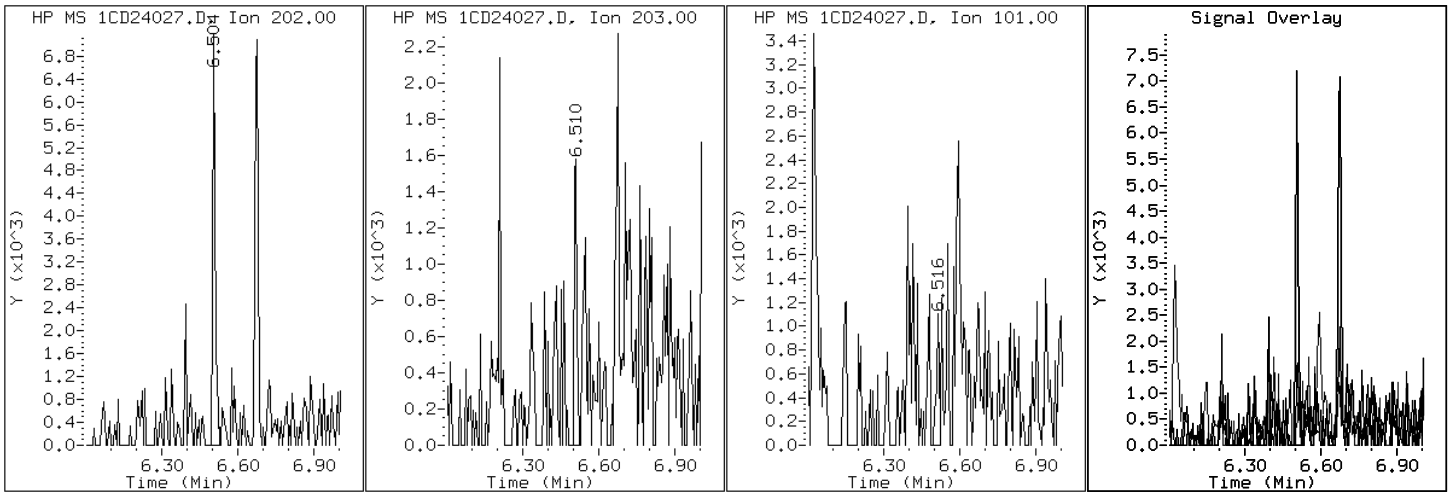
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

15 Fluoranthene



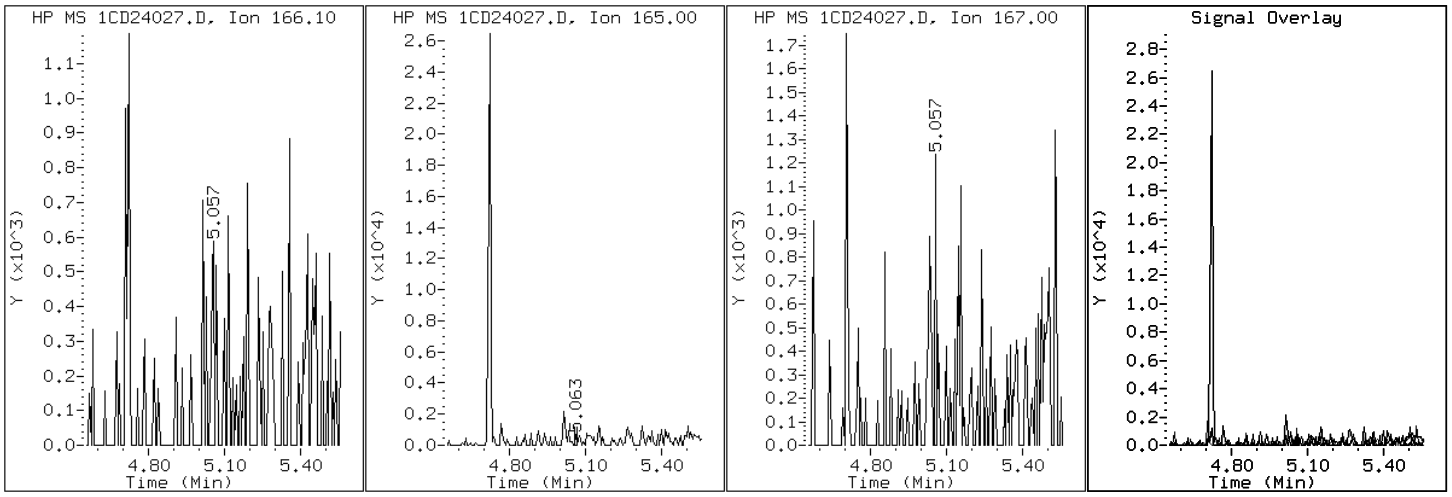
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

9 Fluorene



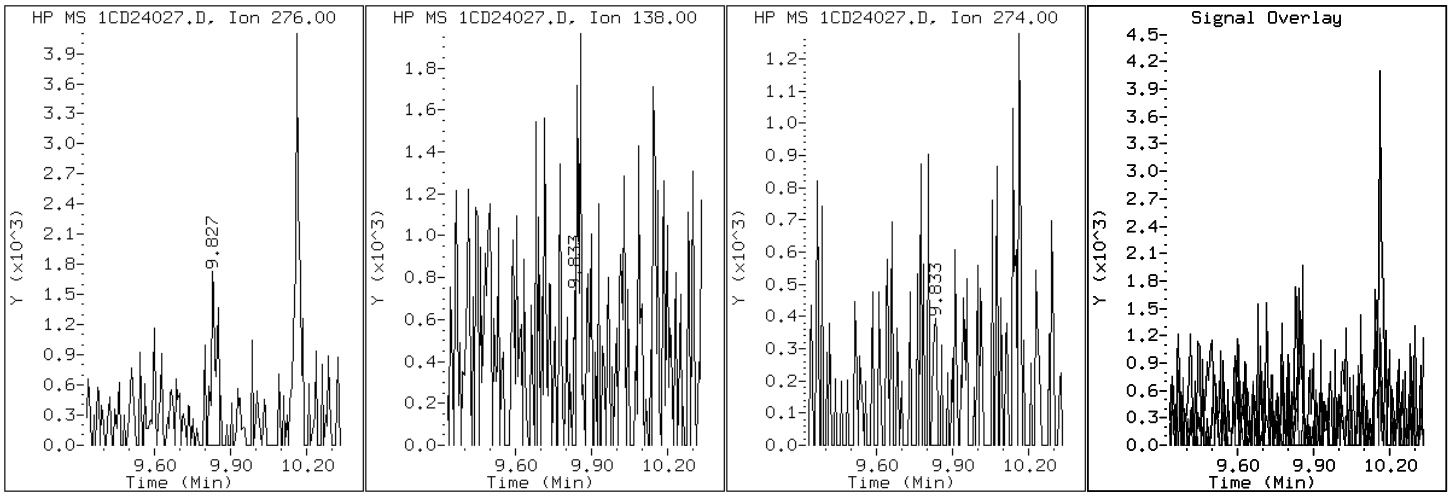
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

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



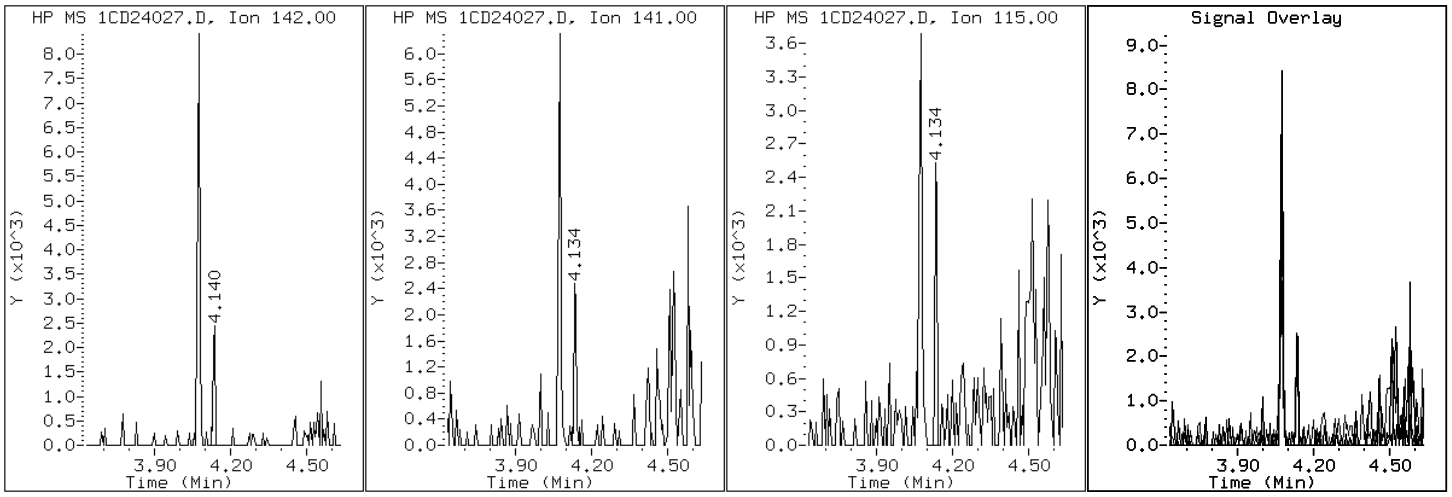
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

4 1-Methylnaphthalene



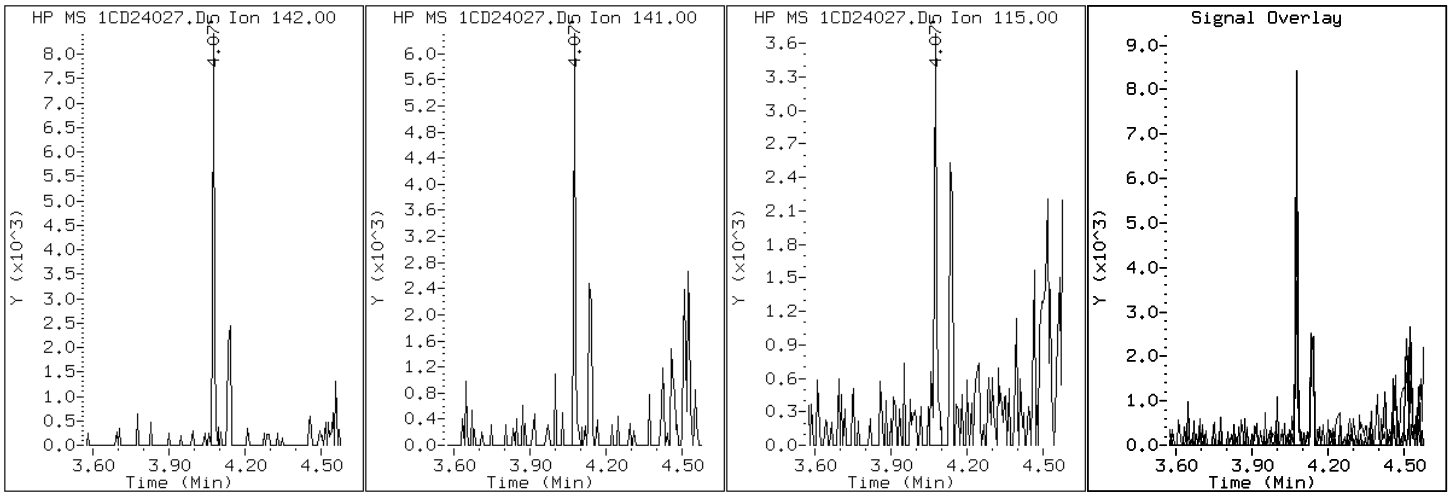
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24027.D

Date: 24-APR-2013 20:19

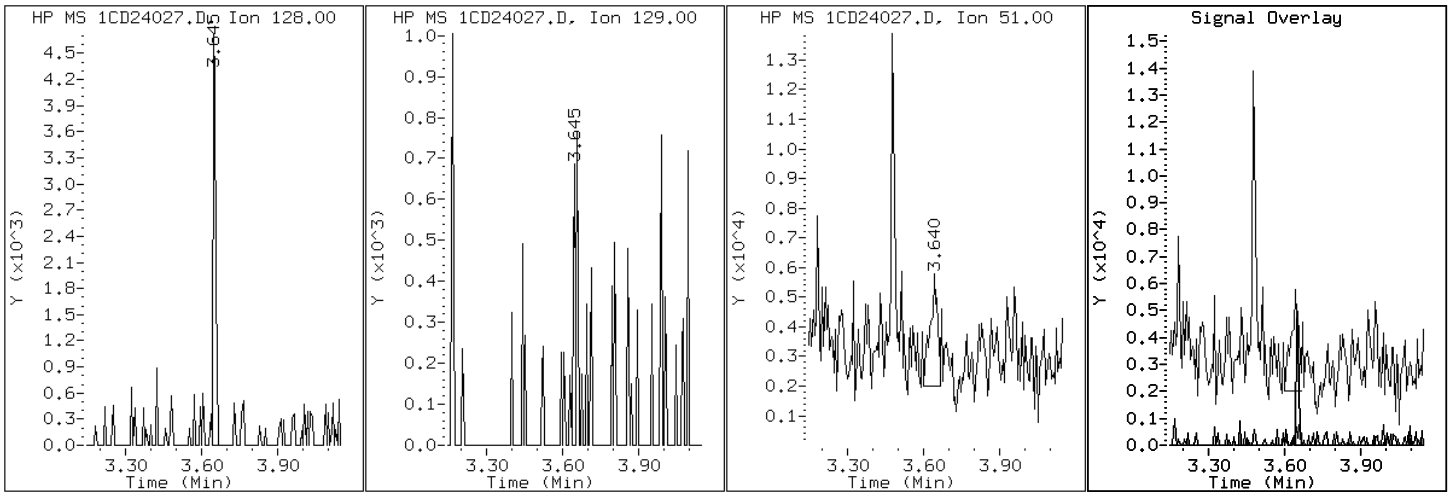
Client ID: HP0063B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a

Operator: SCC

2 Naphthalene



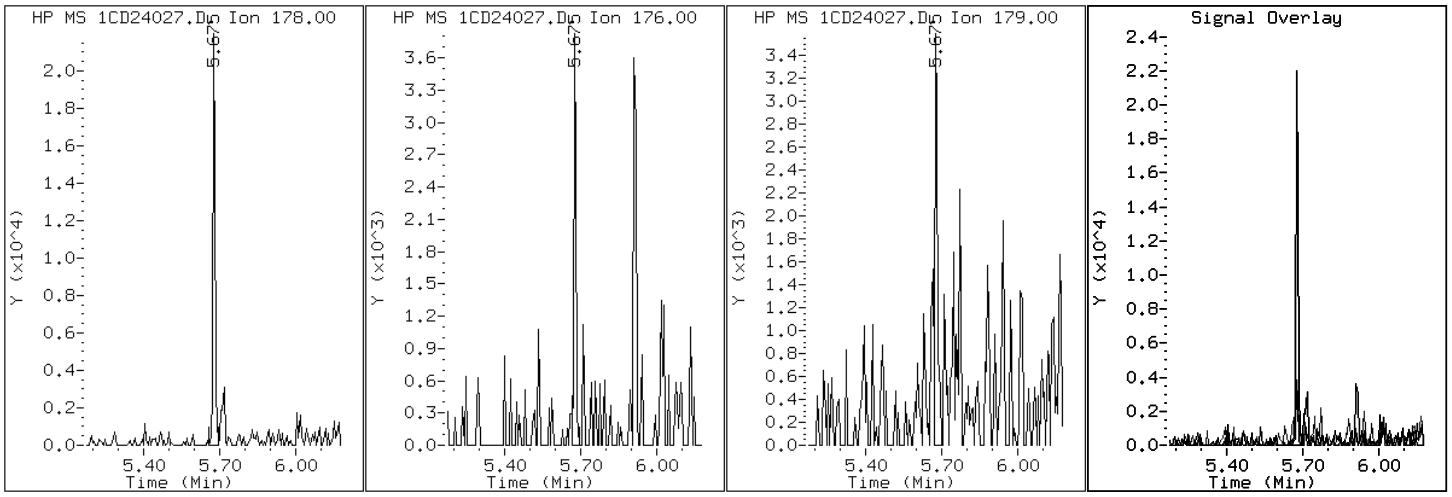
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

11 Phenanthrene



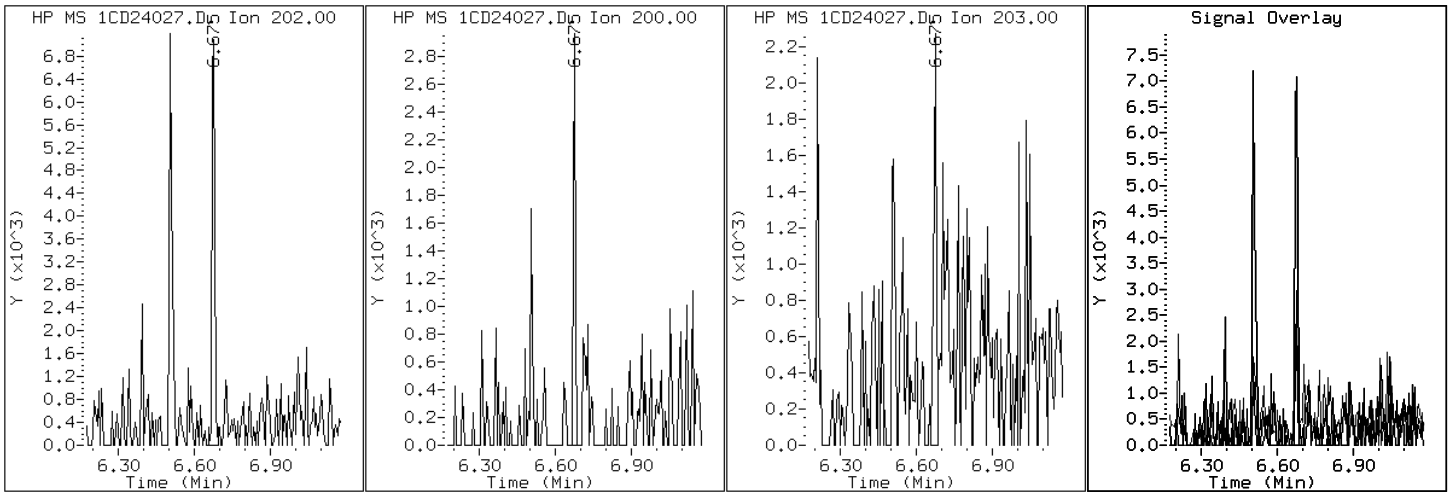
Data File: 1CD24027.D

Date: 24-APR-2013 20:19

Client ID: HP0063B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24027.D
Inj. Date and Time: 24-APR-2013 20:19
Instrument ID: BSMC5973.i
Client ID: HP0063B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

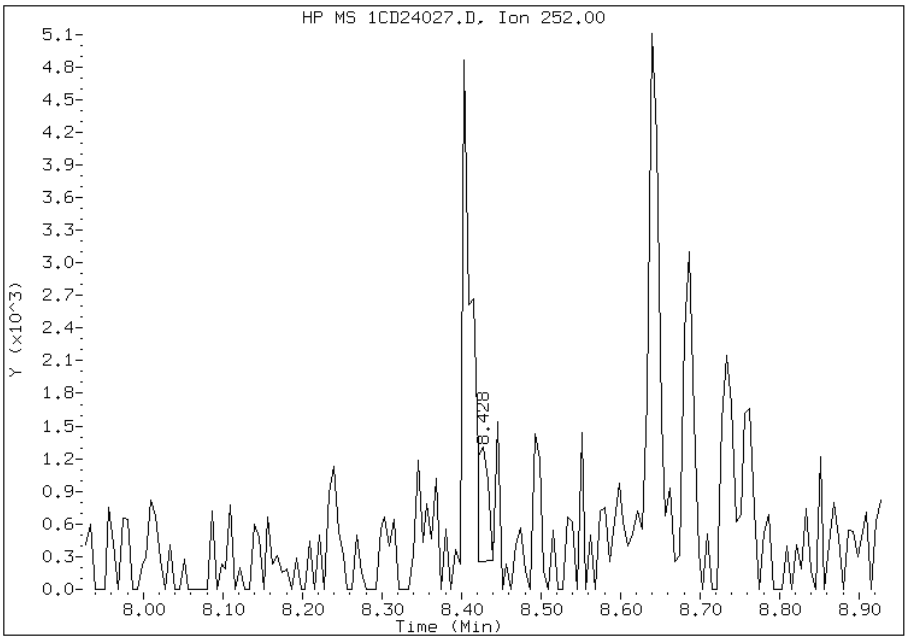
Processing Integration Results

RT: 8.43

Response: 978

Amount: 0

Conc: 15



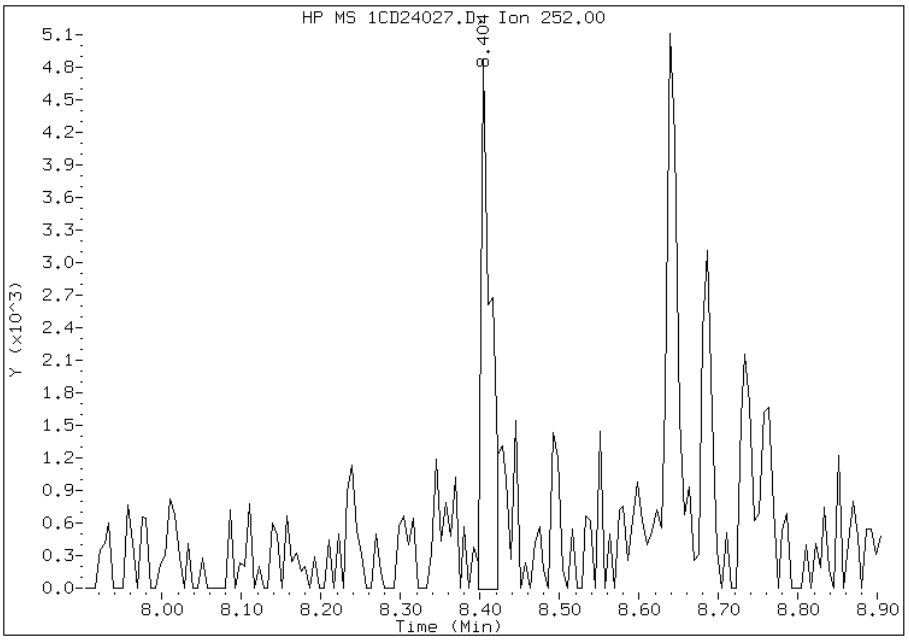
Manual Integration Results

RT: 8.40

Response: 4125

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24027.D
Inj. Date and Time: 24-APR-2013 20:19
Instrument ID: BSMC5973.i
Client ID: HP0063B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

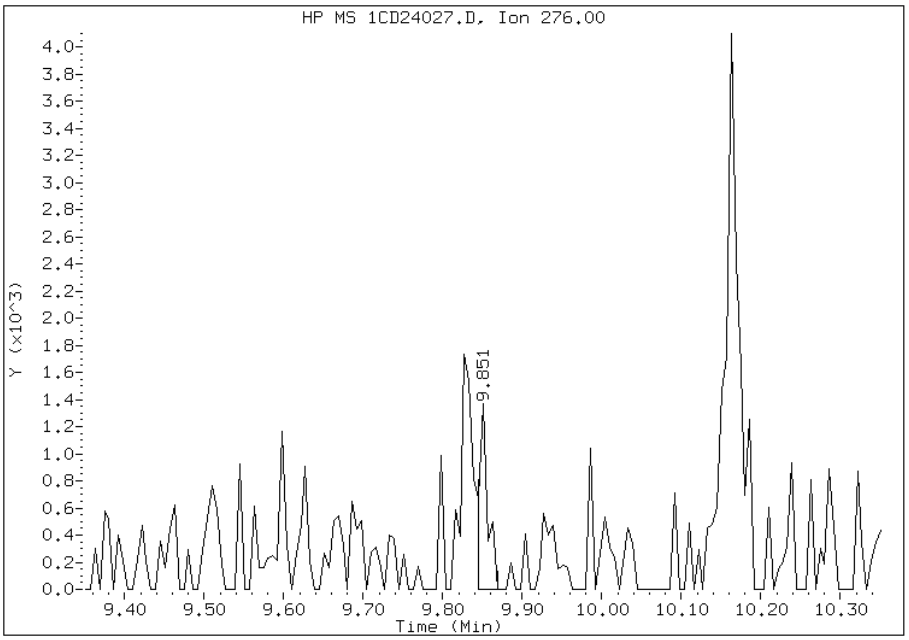
Processing Integration Results

RT: 9.85

Response: 1023

Amount: 1

Conc: 66



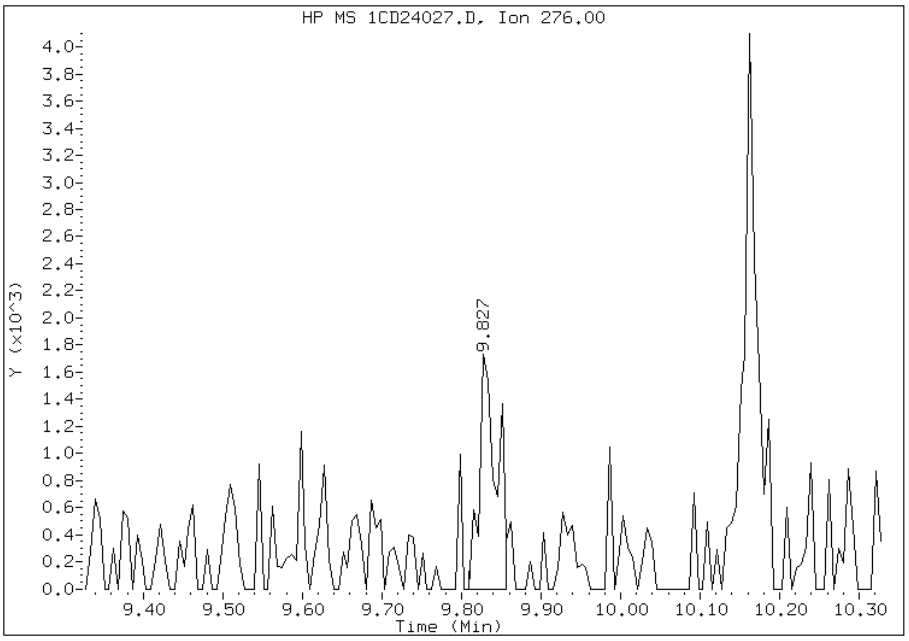
Manual Integration Results

RT: 9.83

Response: 2643

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:24
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: HP0064A-CS-SP | Lab Sample ID: 680-89513-8

Matrix: Solid | Lab File ID: 1CD24028.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 09:15

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.96(g) | Date Analyzed: 04/24/2013 20:37

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	50	U	50	6.3
120-12-7	Anthracene	47		11	5.3
56-55-3	Benzo[a]anthracene	75		10	4.9
50-32-8	Benzo[a]pyrene	83		13	6.5
205-99-2	Benzo[b]fluoranthene	100		15	7.6
191-24-2	Benzo[g,h,i]perylene	79		25	5.5
207-08-9	Benzo[k]fluoranthene	49		10	4.5
218-01-9	Chrysene	110		11	5.6
53-70-3	Dibenz(a,h)anthracene	41		25	5.1
206-44-0	Fluoranthene	90		25	5.0
86-73-7	Fluorene	5.9	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	110		25	8.9
90-12-0	1-Methylnaphthalene	49	J	50	5.5
91-57-6	2-Methylnaphthalene	120		50	8.9
91-20-3	Naphthalene	90		50	5.5
85-01-8	Phenanthrene	150		10	4.9
129-00-0	Pyrene	100		25	4.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24028.D
Lab Smp Id: 680-89513-A-8-A Client Smp ID: HP0064A-CS-SP
Inj Date : 24-APR-2013 20:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-8-a
Misc Info : 680-89513-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 24
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	19.794	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	162144	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	111689	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	209170	40.0000	
$ 14 o-Terphenyl	230	5.915	5.910	(1.045)	22699	7.47434	622.9218
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	230772	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	219069	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	4704	1.08543	90.4612
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	2677	1.43447	119.5508
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	1373	0.58617	48.8525
9 Fluorene	166	5.057	5.057	(1.071)	282	0.07109	5.9243(Q)
11 Phenanthrene	178	5.674	5.675	(1.002)	10457	1.82587	152.1701
12 Anthracene	178	5.710	5.710	(1.008)	2664	0.56560	47.1382
13 Carbazole	167	5.827	5.822	(1.029)	1487	0.25831	21.5281(Q)
15 Fluoranthene	202	6.510	6.504	(1.150)	7683	1.08545	90.4625

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.668	6.675	(0.878)	8305	1.21855	101.5553
17 Benzo(a)anthracene	228	7.580	7.581	(0.998)	5922	0.89620	74.6908
19 Chrysene	228	7.609	7.610	(1.002)	8895	1.34981	112.4948
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	7519	1.24101	103.4274
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	3436	0.58285	48.5752
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	4676	0.99953	83.3024
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.126)	4426	1.34491	112.0869(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	2596	0.48869	40.7284(QM)
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	5259	0.95075	79.2367(M)

QC Flag Legend

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

Data File: 1CD24028.D

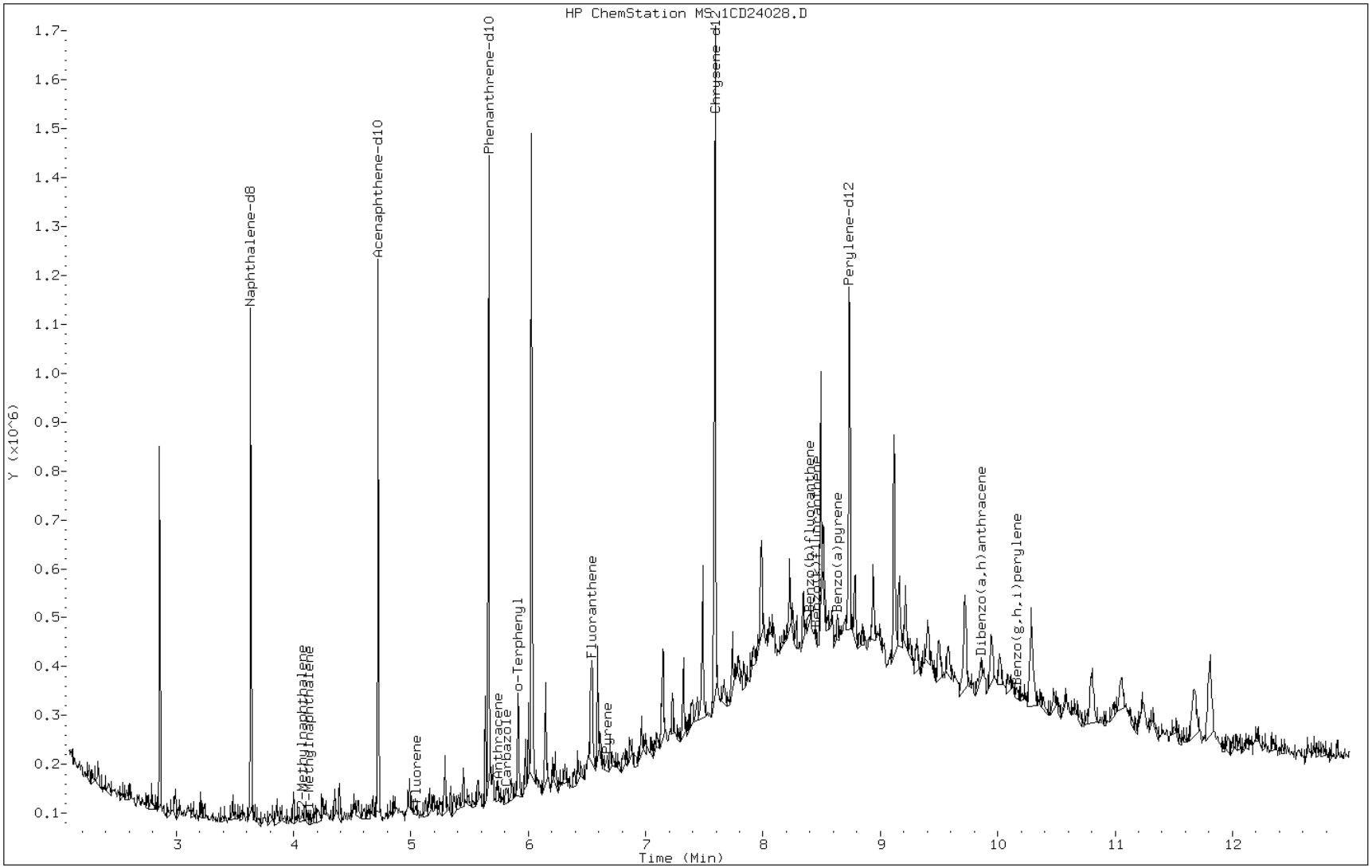
Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

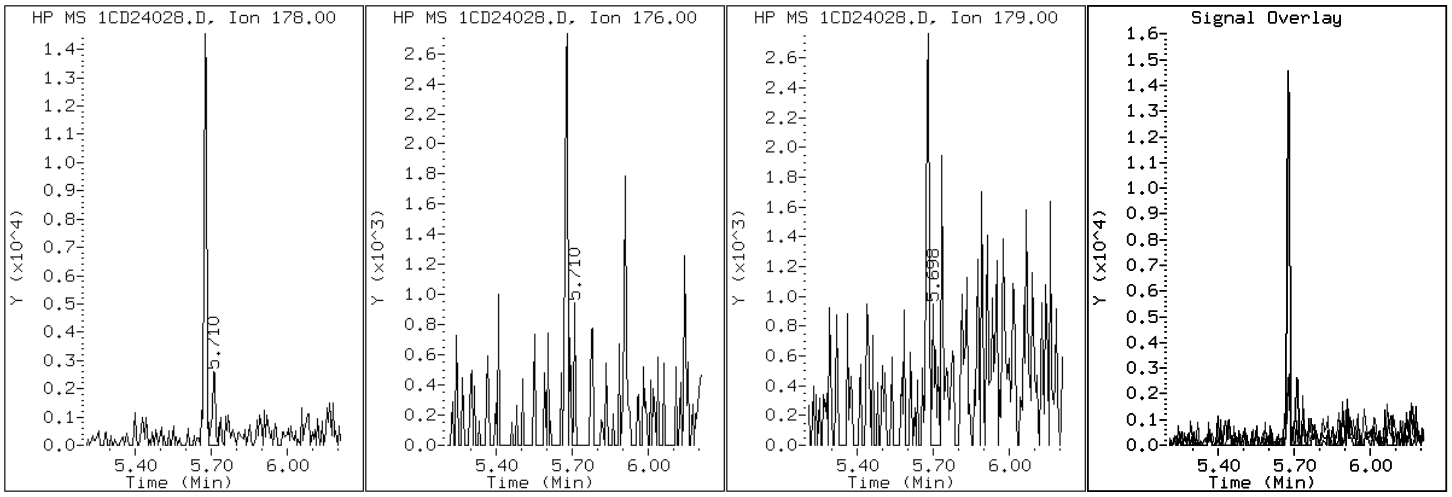
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

12 Anthracene



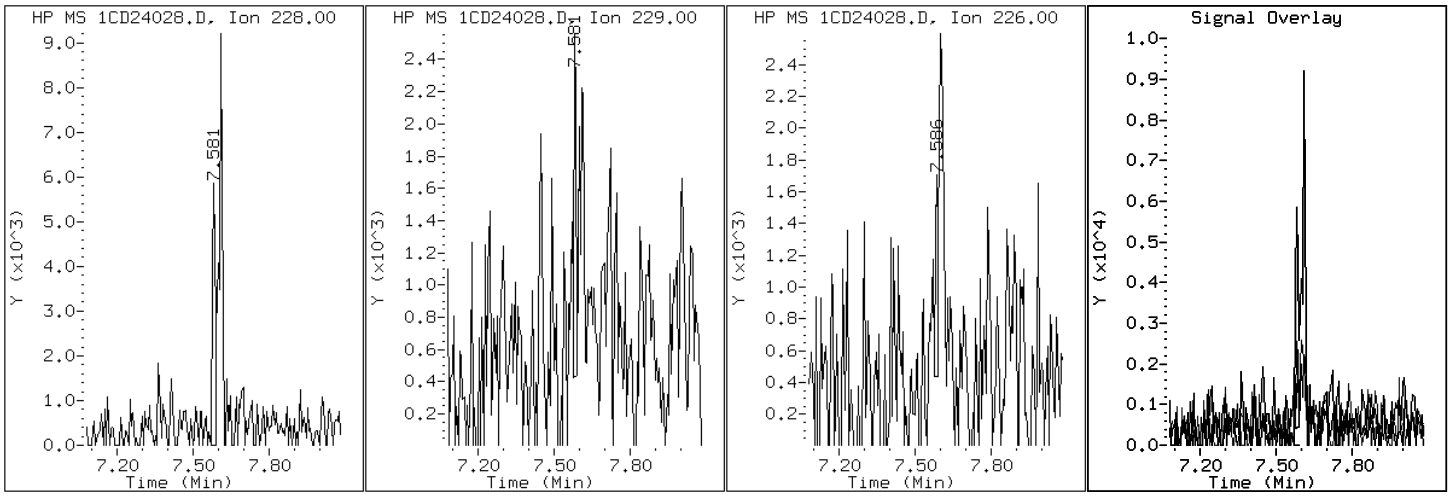
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

17 Benzo(a)anthracene



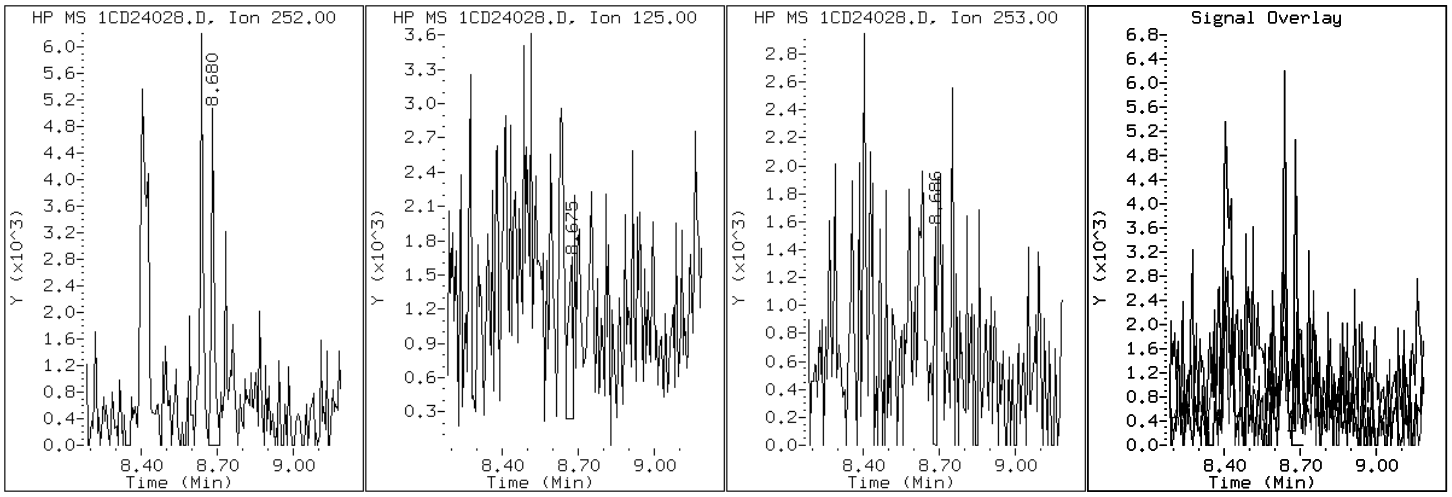
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

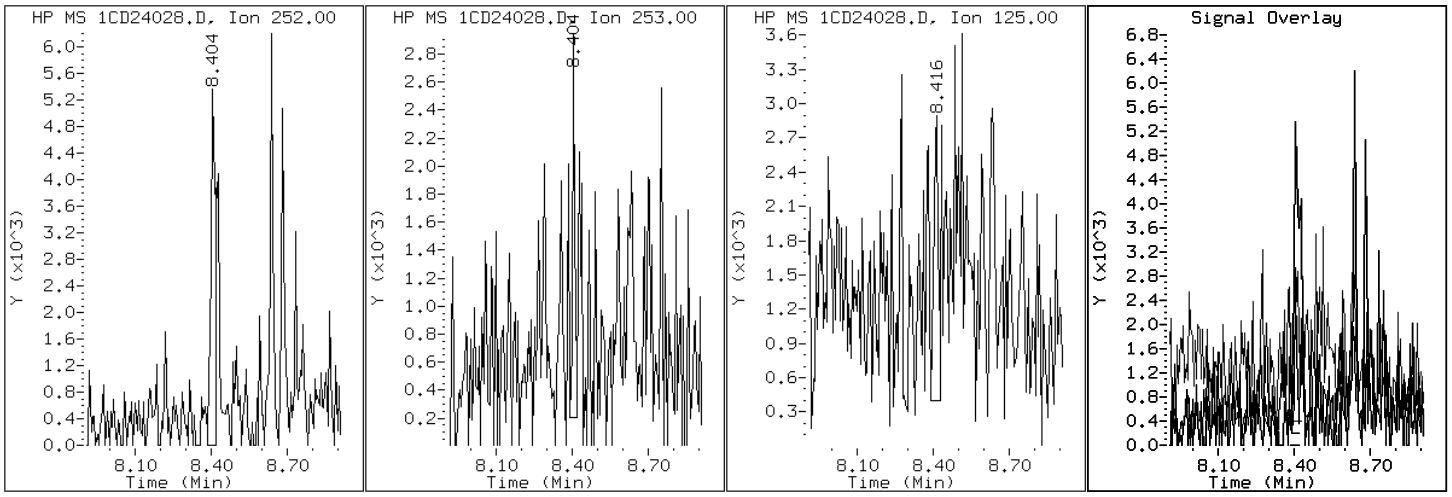
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

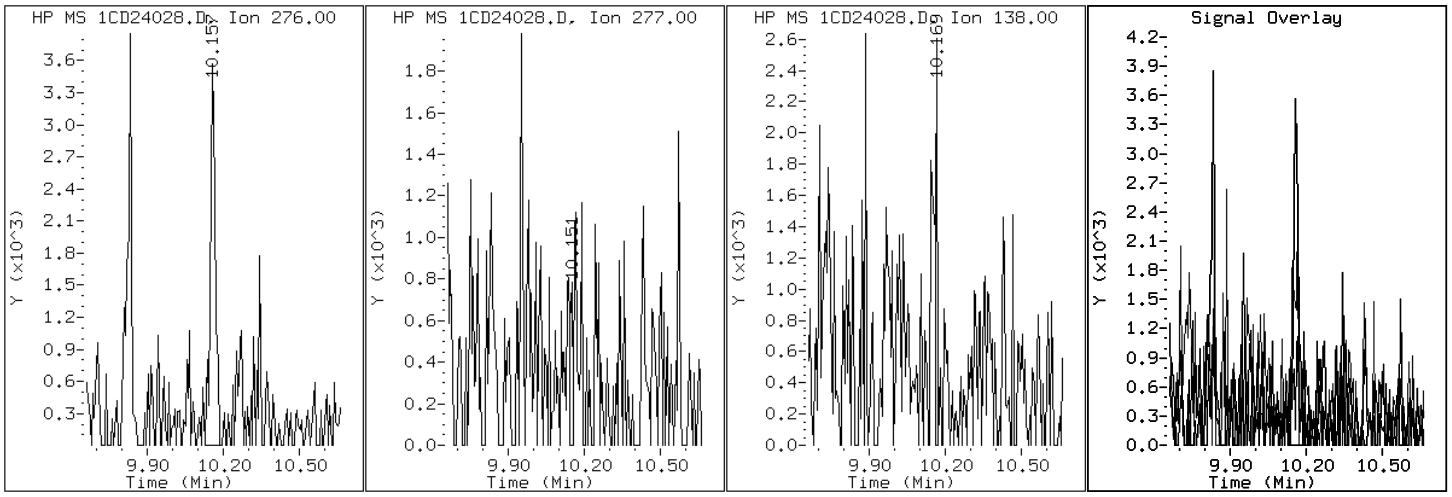
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



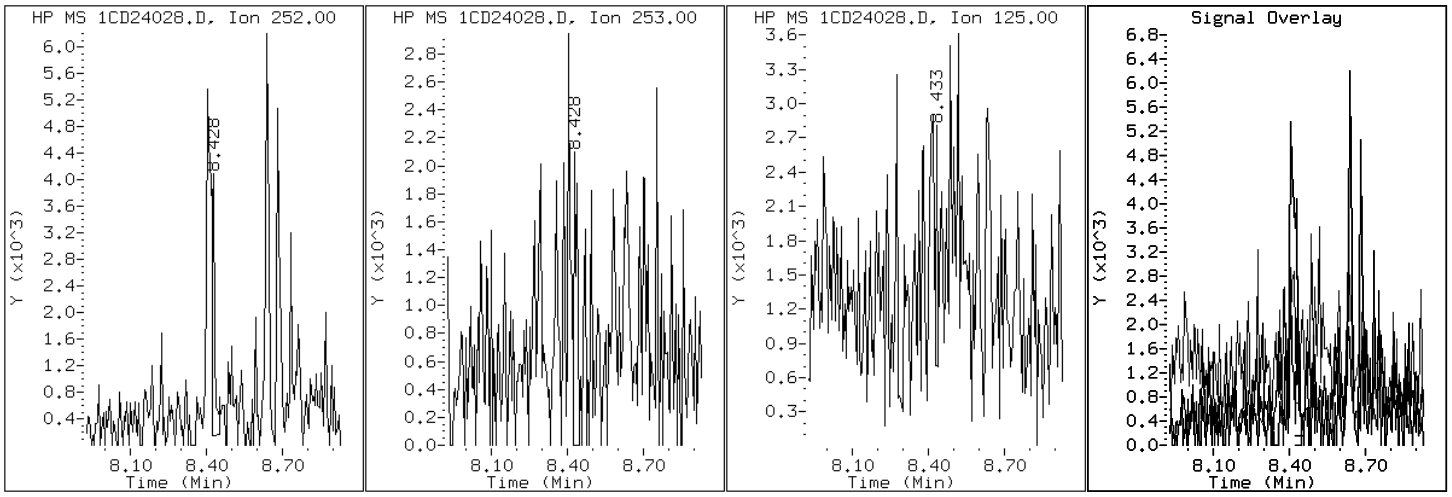
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

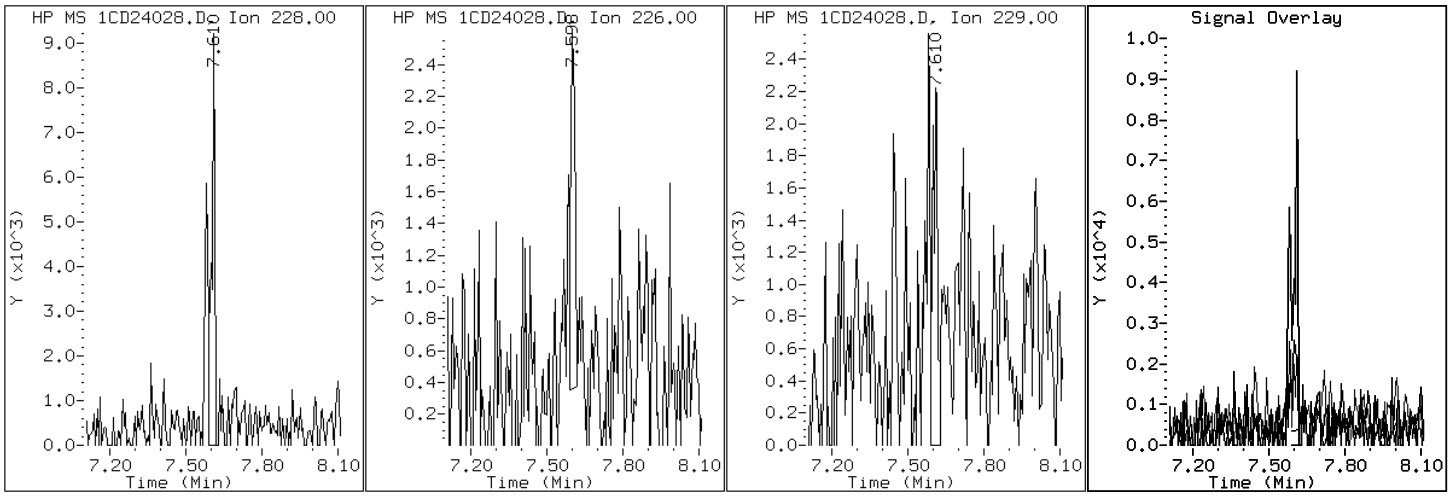
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

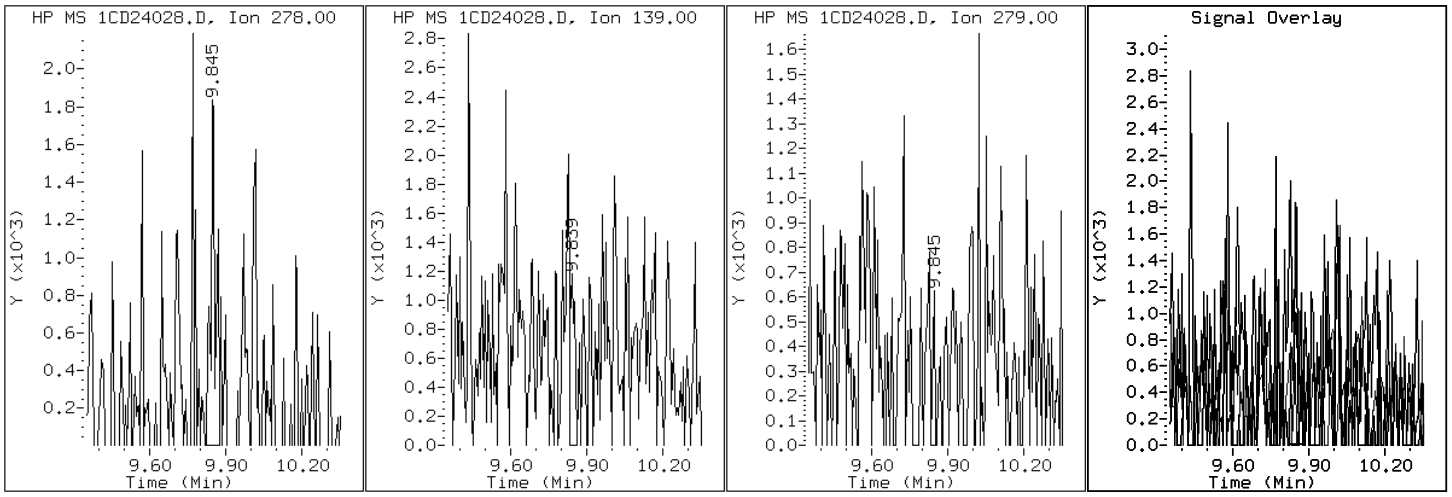
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

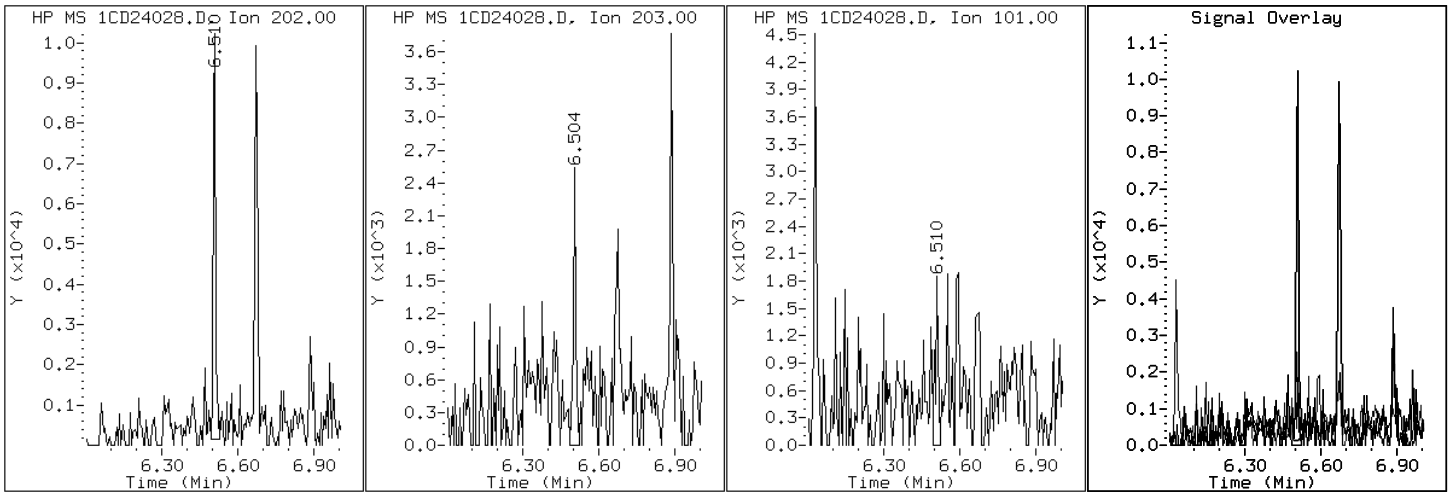
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

15 Fluoranthene



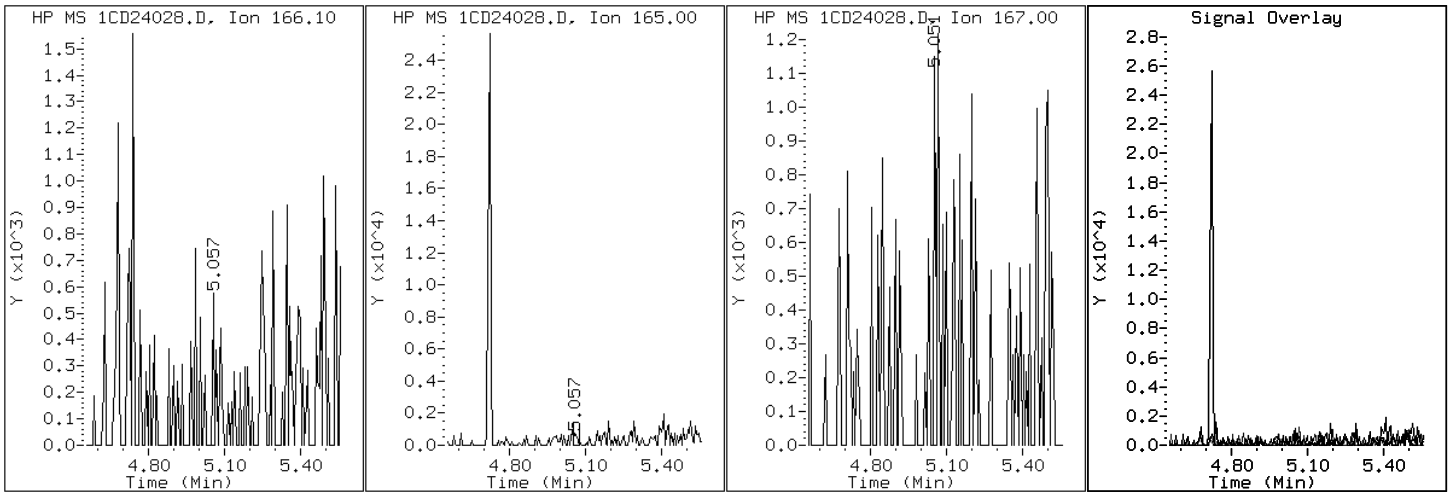
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

9 Fluorene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

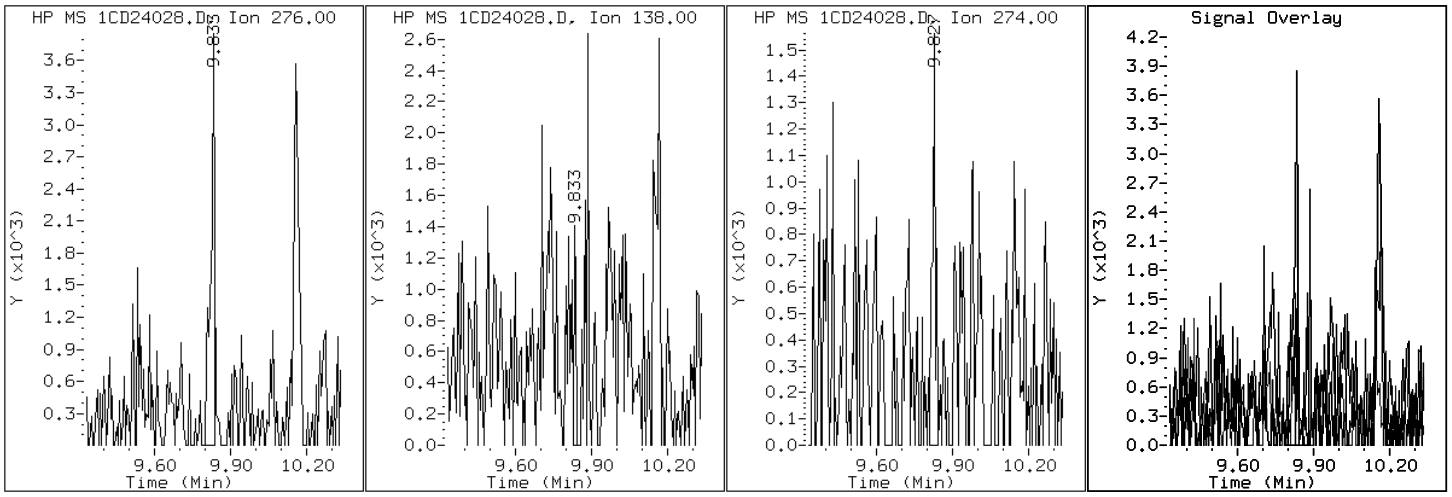
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

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



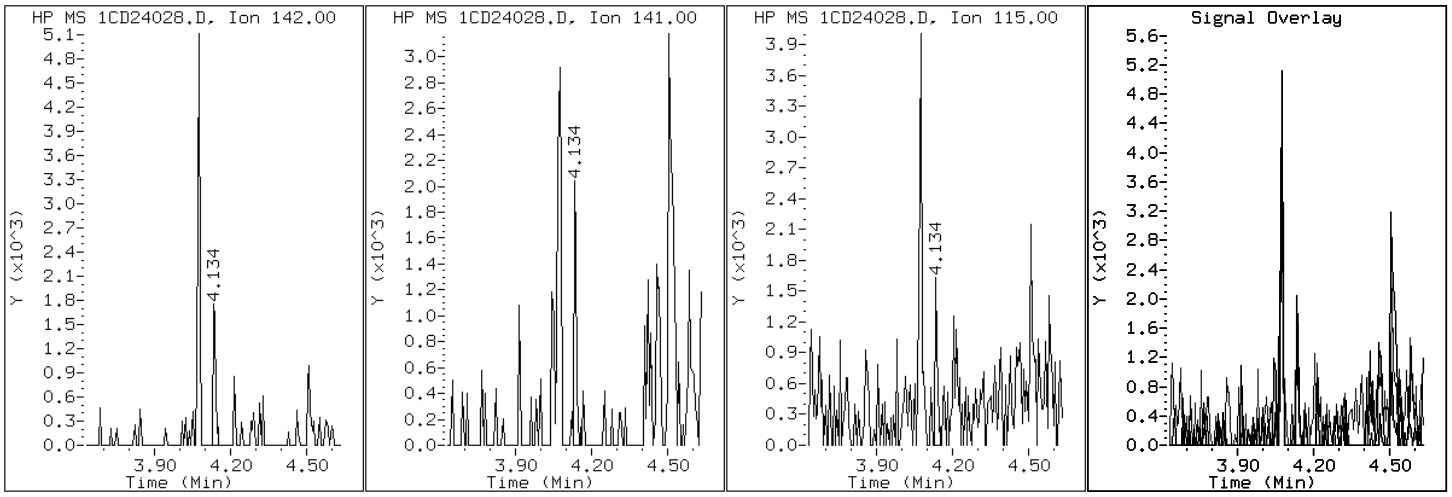
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

4 1-Methylnaphthalene



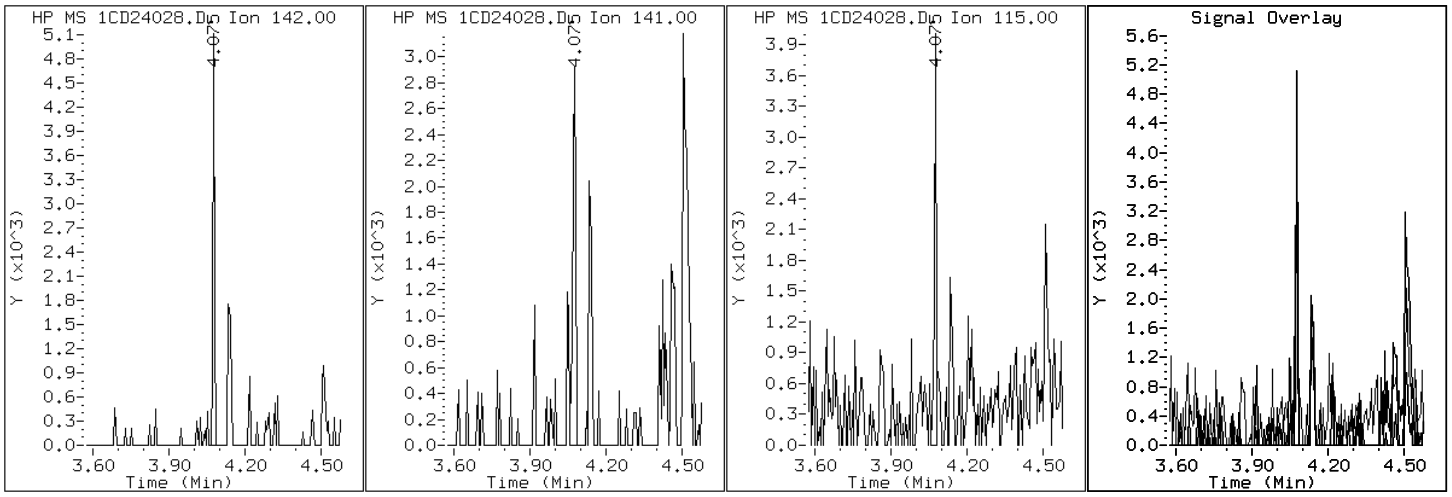
Data File: 1CD24028.D

Date: 24-APR-2013 20:37

Client ID: HP0064A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

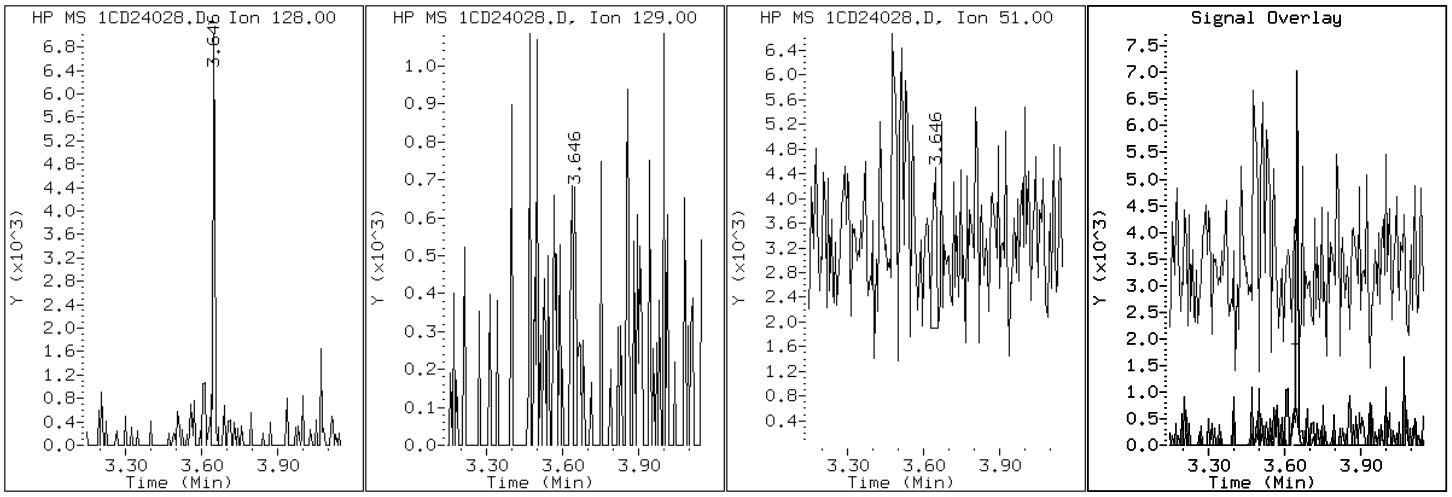
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

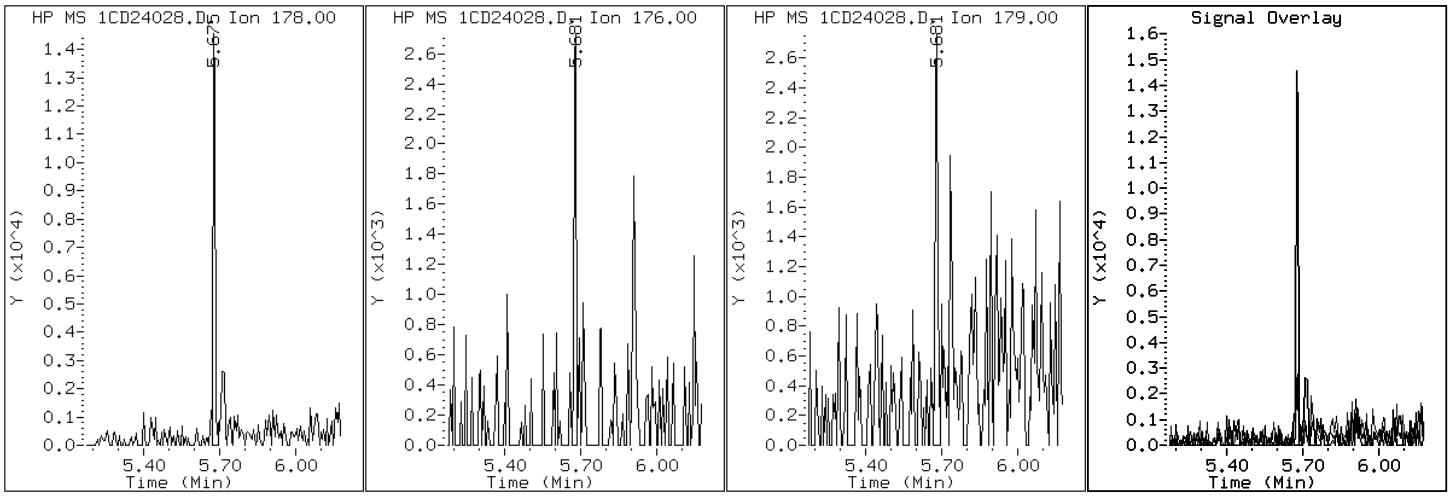
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24028.D

Date: 24-APR-2013 20:37

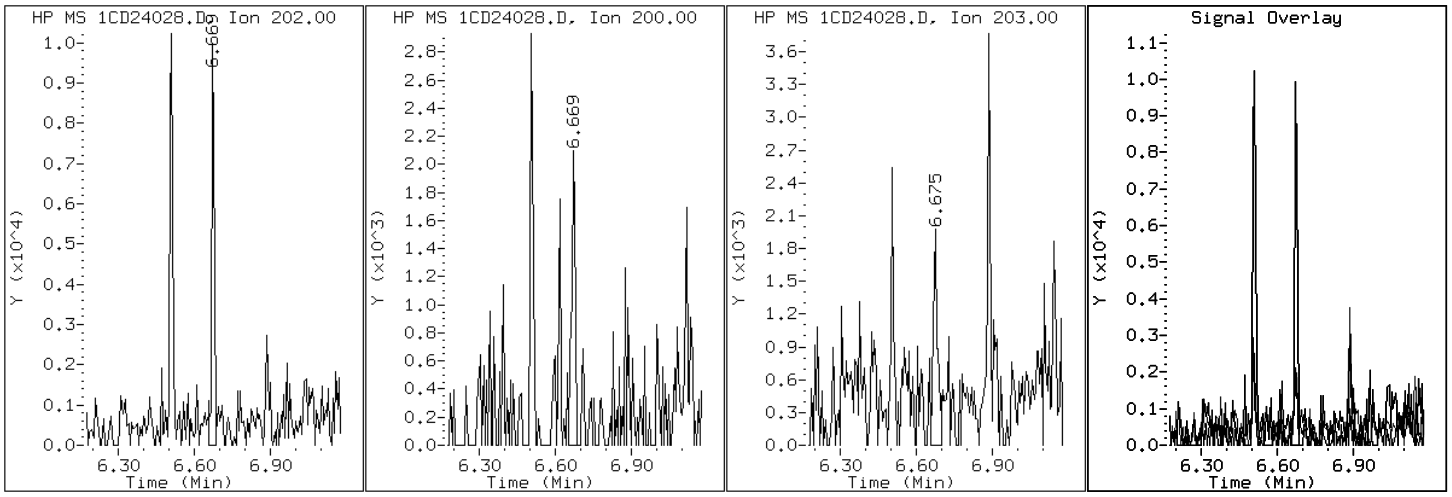
Client ID: HP0064A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-8-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24028.D
Inj. Date and Time: 24-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: HP0064A-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

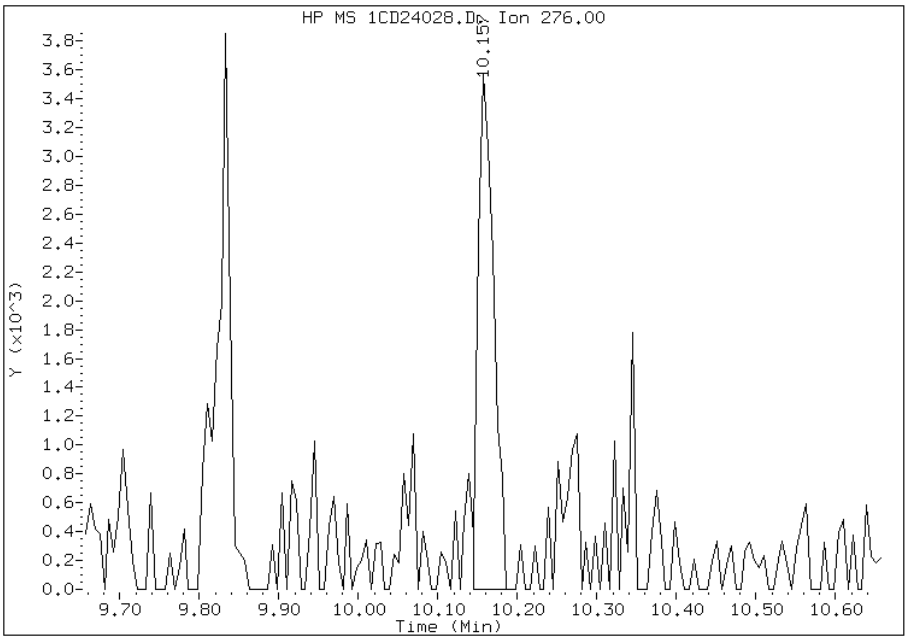
Processing Integration Results

RT: 10.16

Response: 4820

Amount: 1

Conc: 73



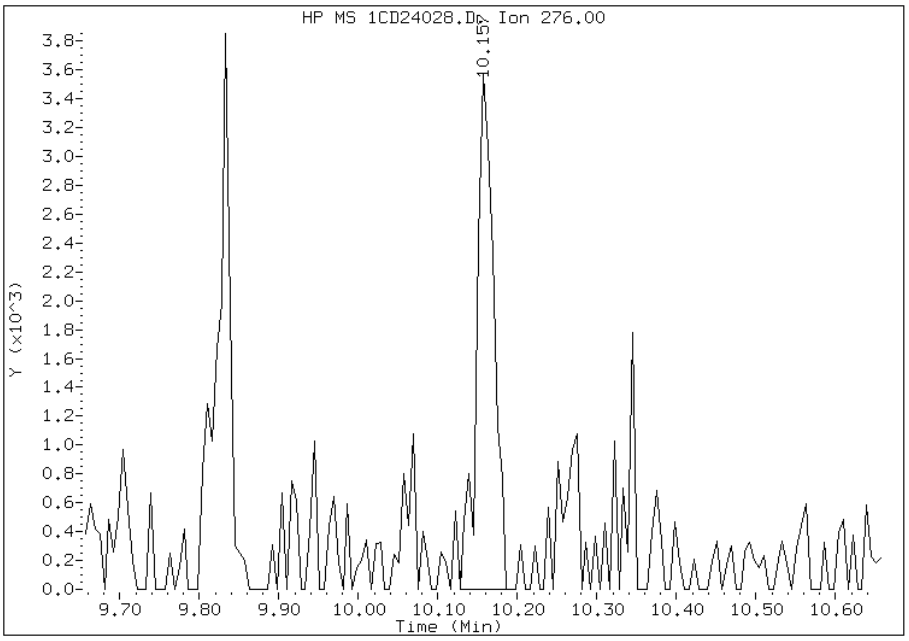
Manual Integration Results

RT: 10.16

Response: 5259

Amount: 1

Conc: 79



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24028.D
Inj. Date and Time: 24-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: HP0064A-CS-SP
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

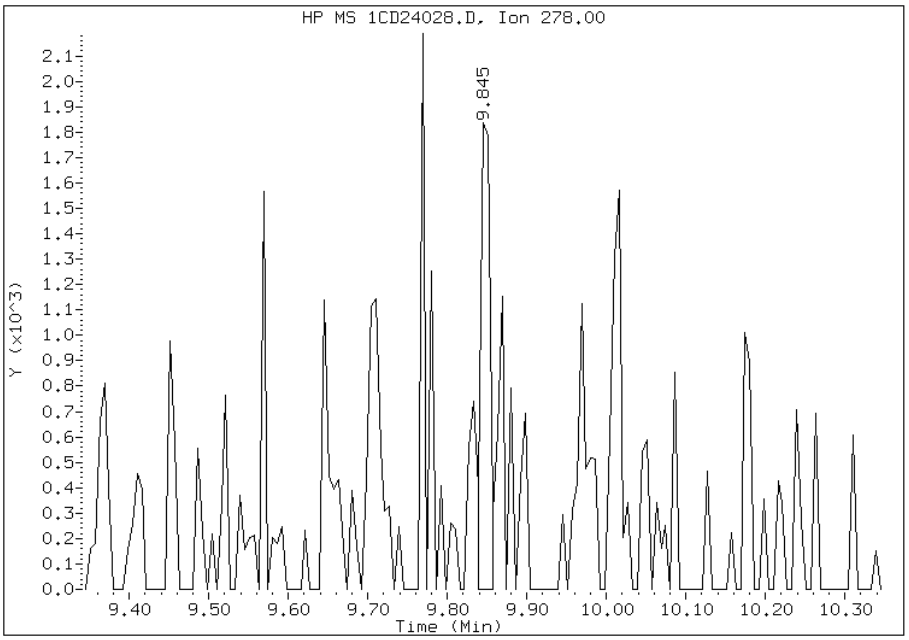
Processing Integration Results

RT: 9.85

Response: 1527

Amount: 0

Conc: 24



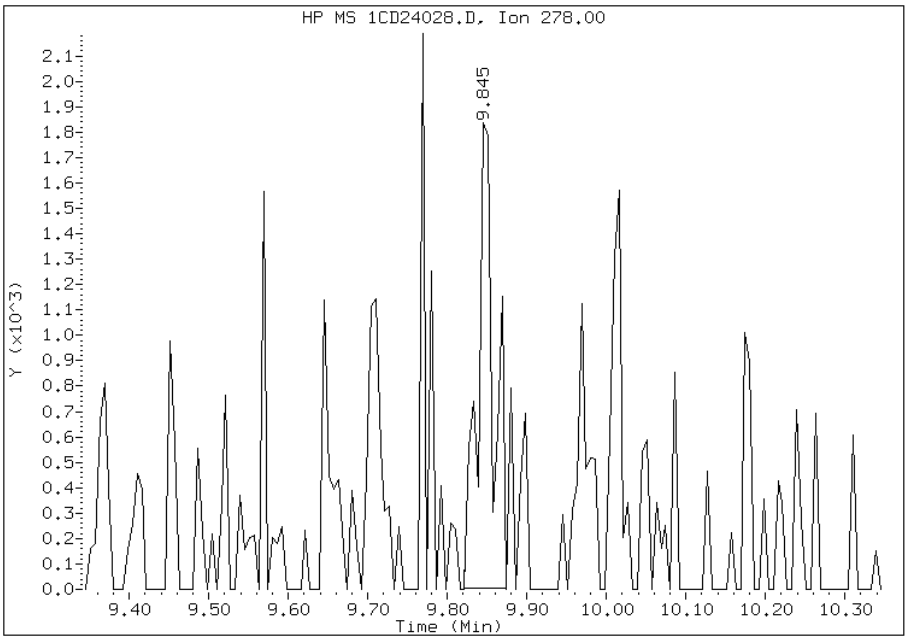
Manual Integration Results

RT: 9.85

Response: 2596

Amount: 0

Conc: 41



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24028.D
Inj. Date and Time: 24-APR-2013 20:37
Instrument ID: BSMC5973.i
Client ID: HP0064A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

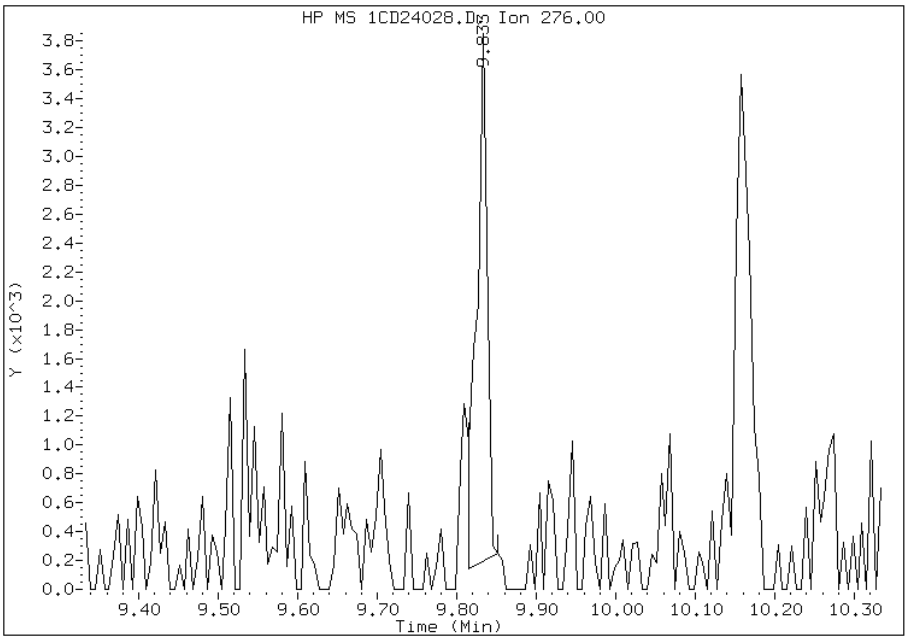
Processing Integration Results

RT: 9.83

Response: 3401

Amount: 1

Conc: 98



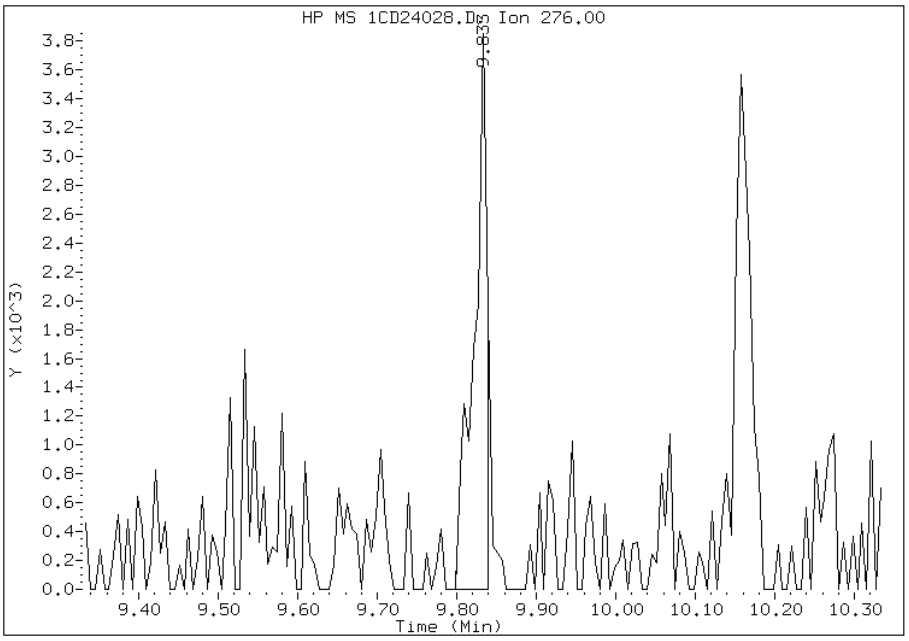
Manual Integration Results

RT: 9.83

Response: 4426

Amount: 1

Conc: 112



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:26
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: HP0064B-CS-SP | Lab Sample ID: 680-89513-9

Matrix: Solid | Lab File ID: 1CD24029.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 09:30

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.16(g) | Date Analyzed: 04/24/2013 20:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	44		10	5.1
56-55-3	Benzo[a]anthracene	120		9.8	4.8
50-32-8	Benzo[a]pyrene	130		13	6.4
205-99-2	Benzo[b]fluoranthene	200		15	7.5
191-24-2	Benzo[g,h,i]perylene	99		24	5.4
207-08-9	Benzo[k]fluoranthene	81		9.8	4.4
218-01-9	Chrysene	120		11	5.5
53-70-3	Dibenz(a,h)anthracene	29		24	5.0
206-44-0	Fluoranthene	230		24	4.9
86-73-7	Fluorene	14	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.7
90-12-0	1-Methylnaphthalene	60		49	5.4
91-57-6	2-Methylnaphthalene	90		49	8.7
91-20-3	Naphthalene	52		49	5.4
85-01-8	Phenanthrene	190		9.8	4.8
129-00-0	Pyrene	190		24	4.5

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\1C042413.b\1CD24029.D
Lab Smp Id: 680-89513-A-9-A Client Smp ID: HP0064B-CS-SP
Inj Date : 24-APR-2013 20:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-9-a
Misc Info : 680-89513-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 25
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	19.080	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	142928	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	98371	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	200013	40.0000	
$ 14 o-Terphenyl	230	5.916	5.910	(1.045)	19253	6.62988	540.4471
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	224348	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	209945	40.0000	
2 Naphthalene	128	3.651	3.646	(1.005)	2342	0.64014	52.1825(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	1378	1.10541	90.1091
4 1-Methylnaphthalene	142	4.139	4.134	(1.139)	1624	0.73828	60.1823
9 Fluorene	166	5.057	5.057	(1.071)	598	0.17455	14.2284(Q)
11 Phenanthrene	178	5.680	5.675	(1.003)	12972	2.36870	193.0889
12 Anthracene	178	5.710	5.710	(1.008)	2360	0.53435	43.5585
13 Carbazole	167	5.821	5.822	(1.028)	2993	0.54373	44.3231
15 Fluoranthene	202	6.504	6.504	(1.149)	18894	2.83203	230.8584

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.674	6.675	(0.879)	15112	2.28079	185.9229
17 Benzo(a)anthracene	228	7.586	7.581	(0.999)	8892	1.45065	118.2526
19 Chrysene	228	7.610	7.610	(1.002)	9677	1.51052	123.1332
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	13936	2.40010	195.6483(M)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	5618	0.99439	81.0599(QM)
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	7830	1.58067	128.8514
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	5456	1.55295	126.5918(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	1796	0.35279	28.7581(Q)
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.162)	6456	1.21787	99.2771(M)

QC Flag Legend

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

Data File: 1CD24029.D

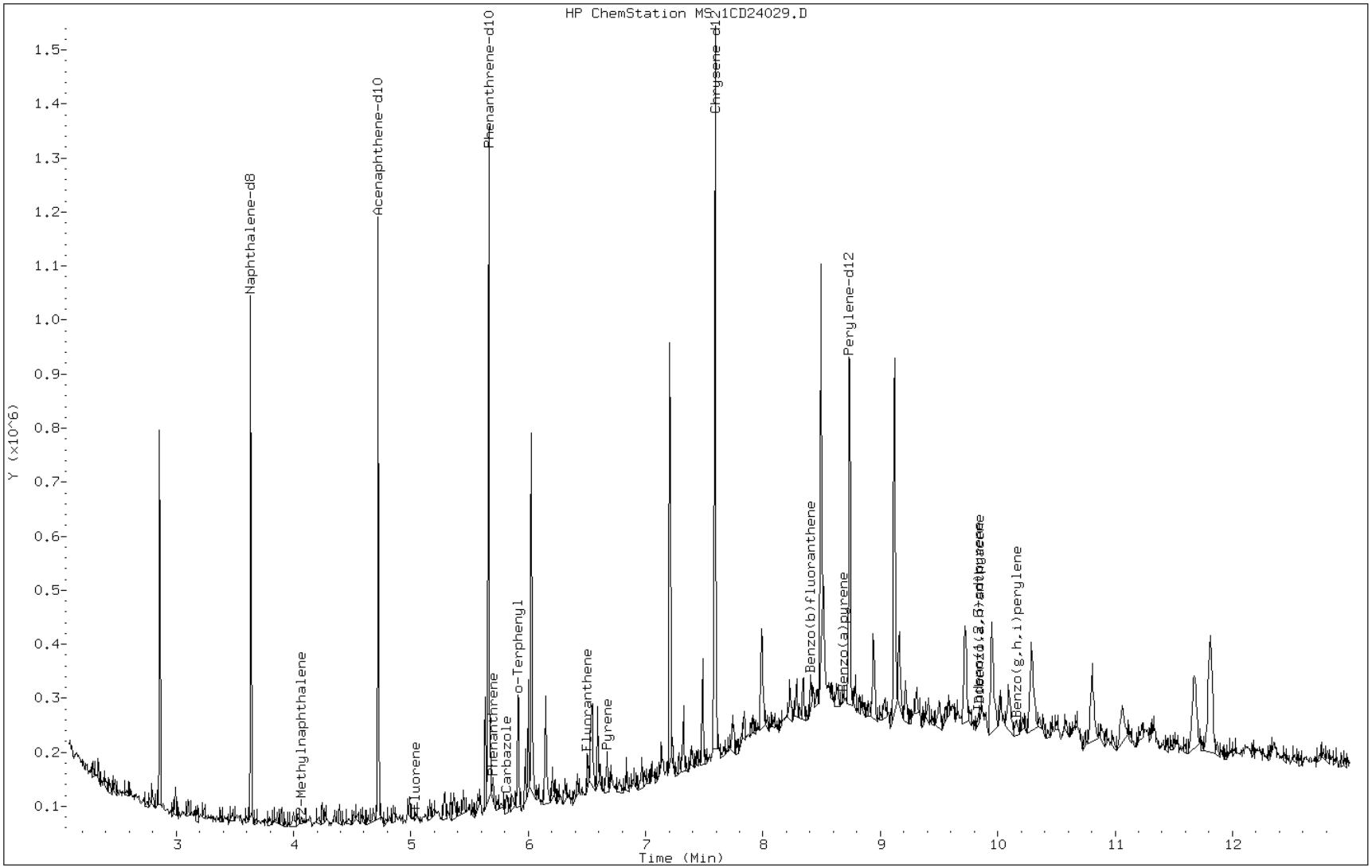
Date: 24-APR-2013 20:55

Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

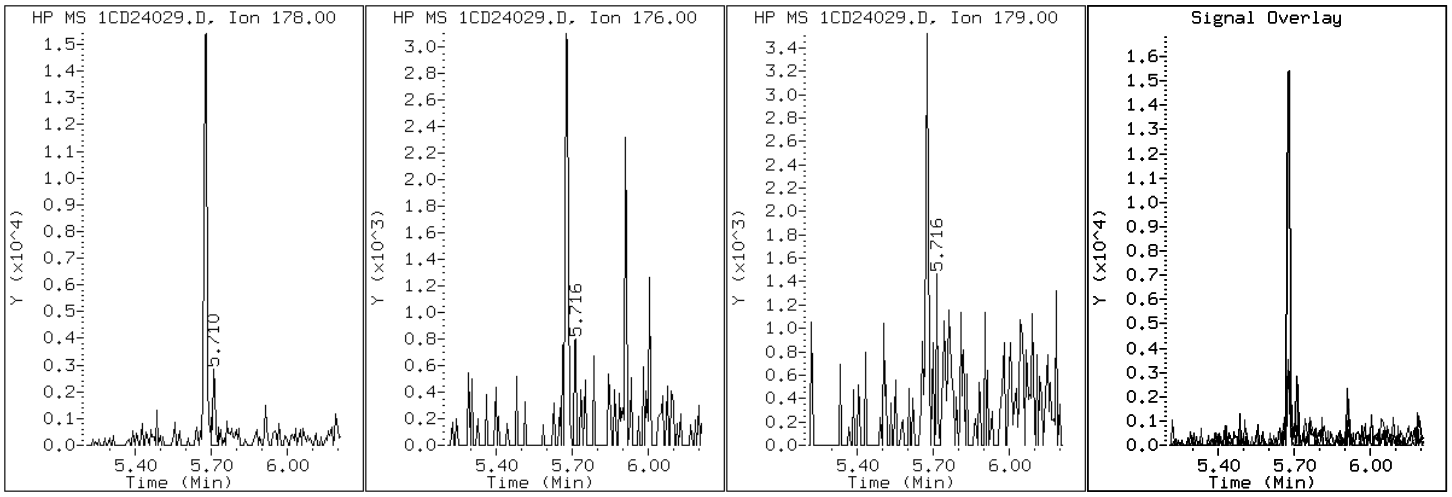
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

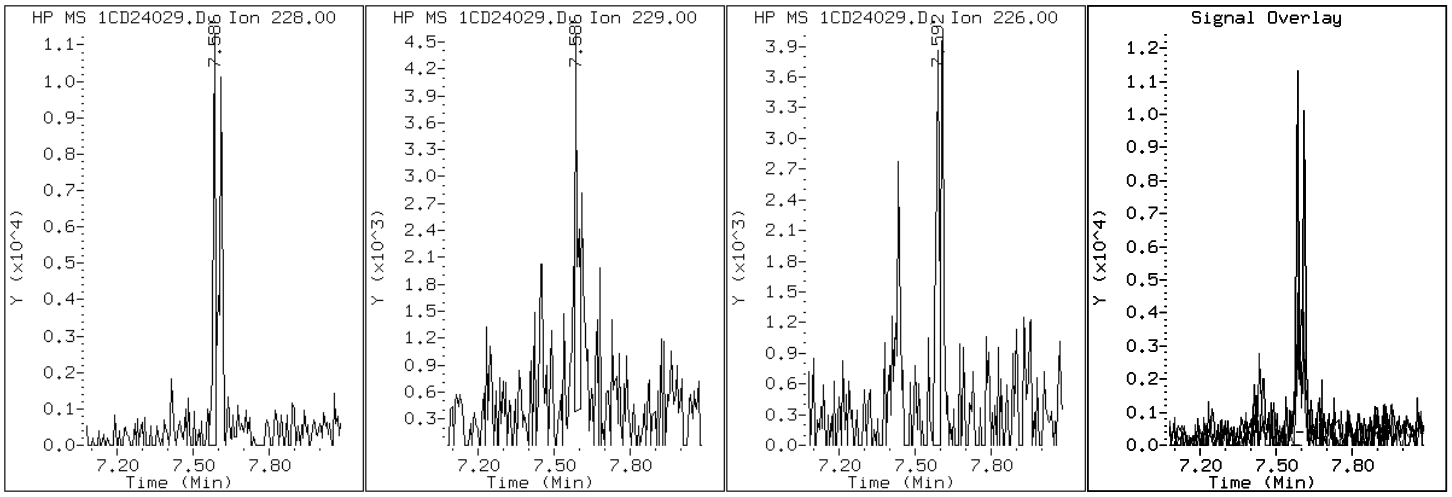
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

17 Benzo(a)anthracene



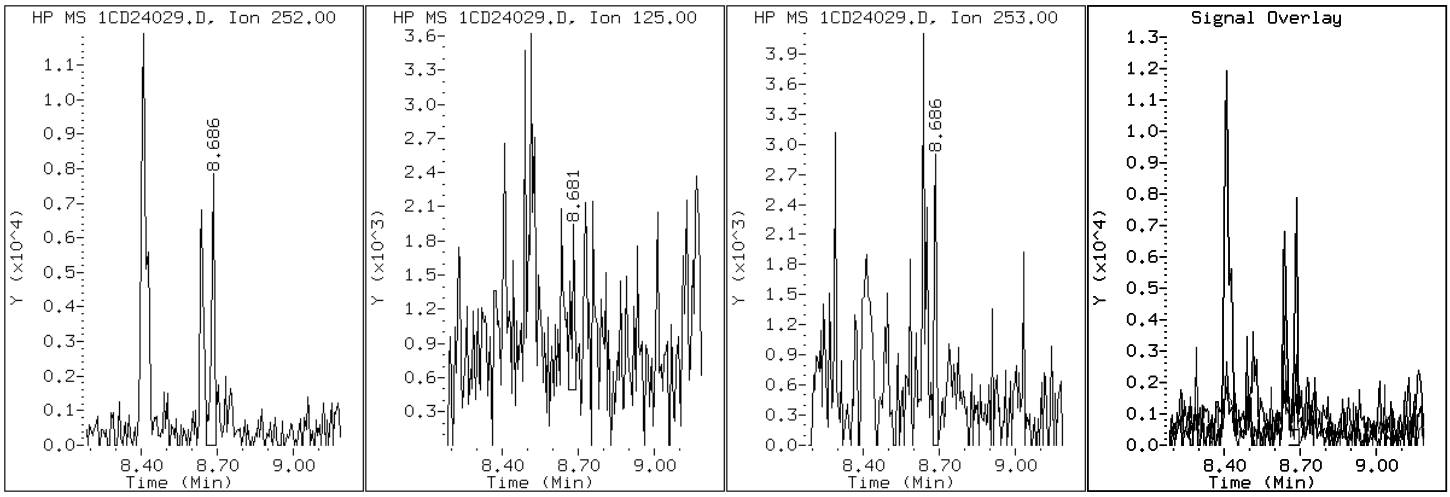
Data File: 1CD24029.D

Date: 24-APR-2013 20:55

Client ID: HP0064B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

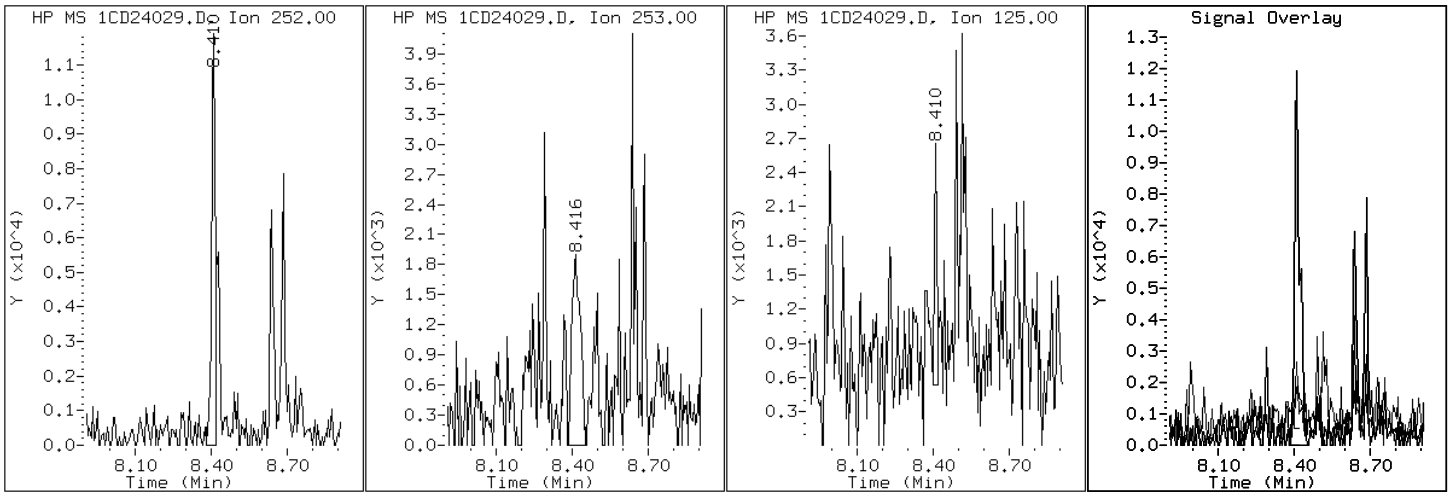
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

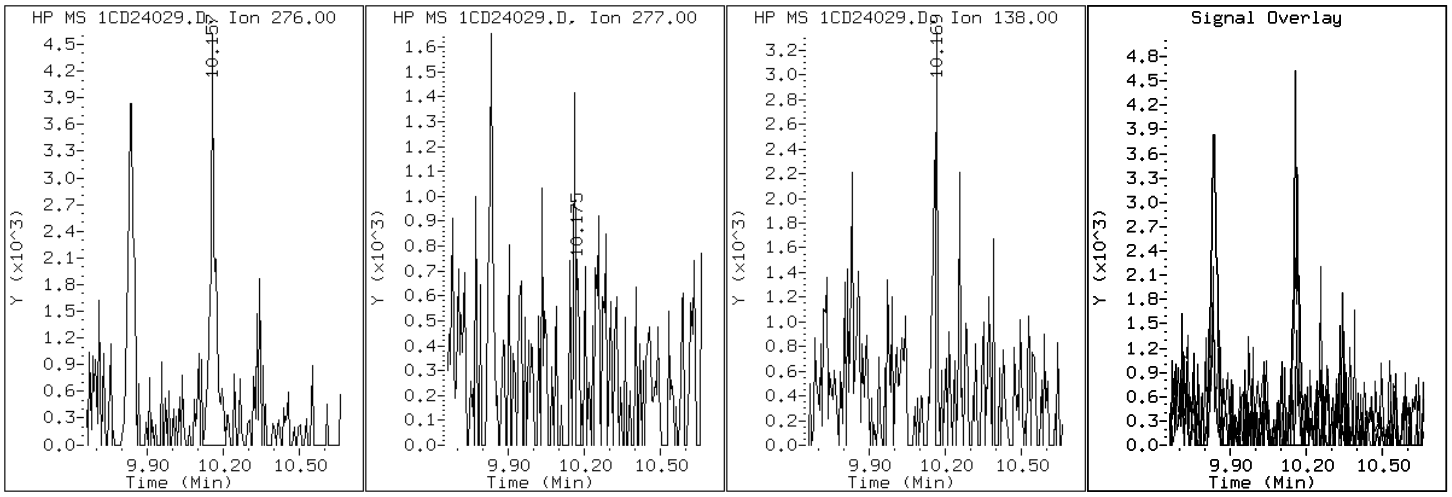
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



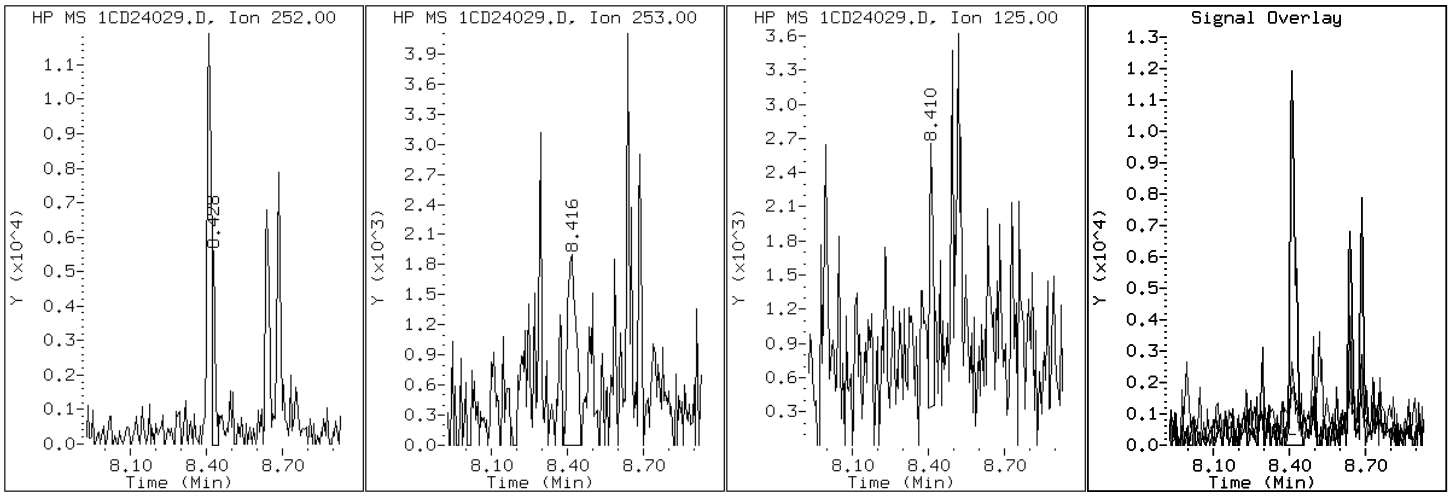
Data File: 1CD24029.D

Date: 24-APR-2013 20:55

Client ID: HP0064B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



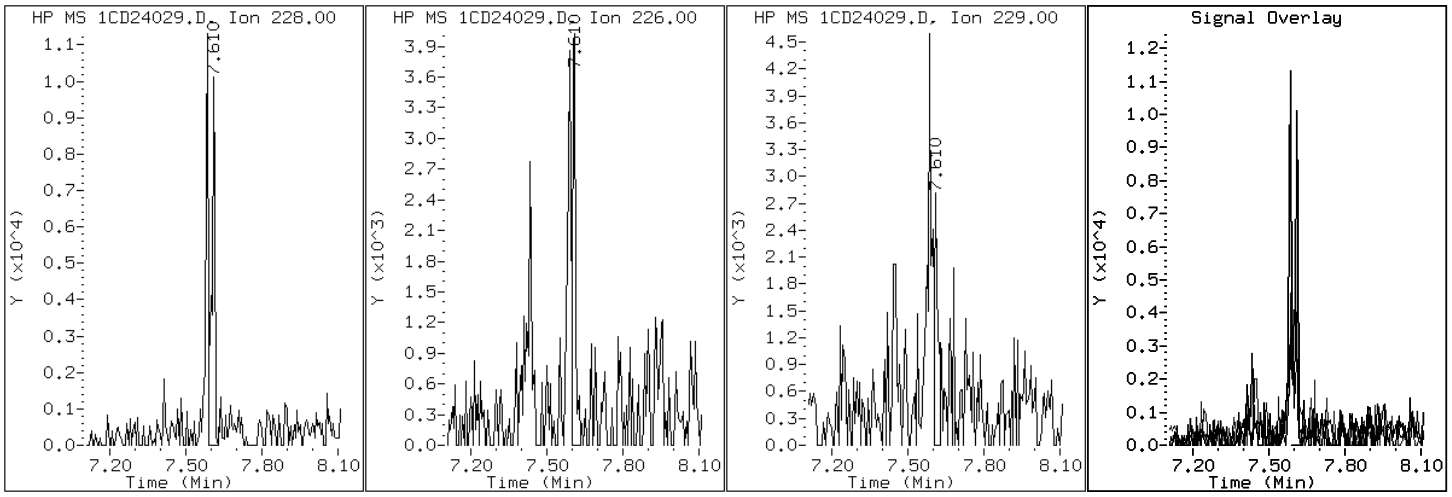
Data File: 1CD24029.D

Date: 24-APR-2013 20:55

Client ID: HP0064B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a Operator: SCC

19 Chrysene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

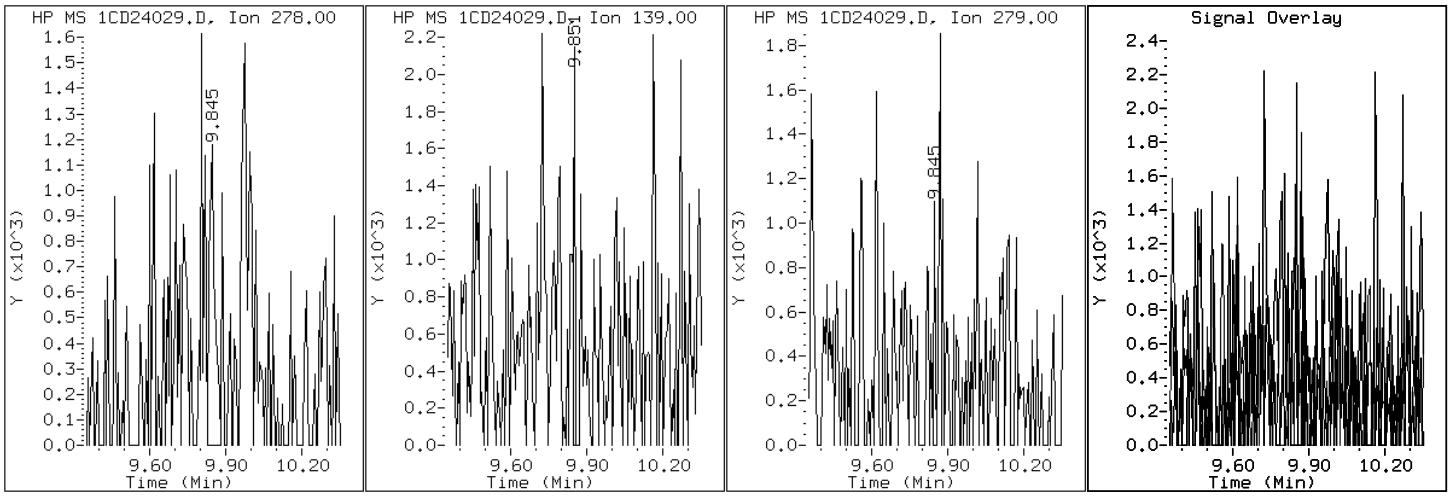
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

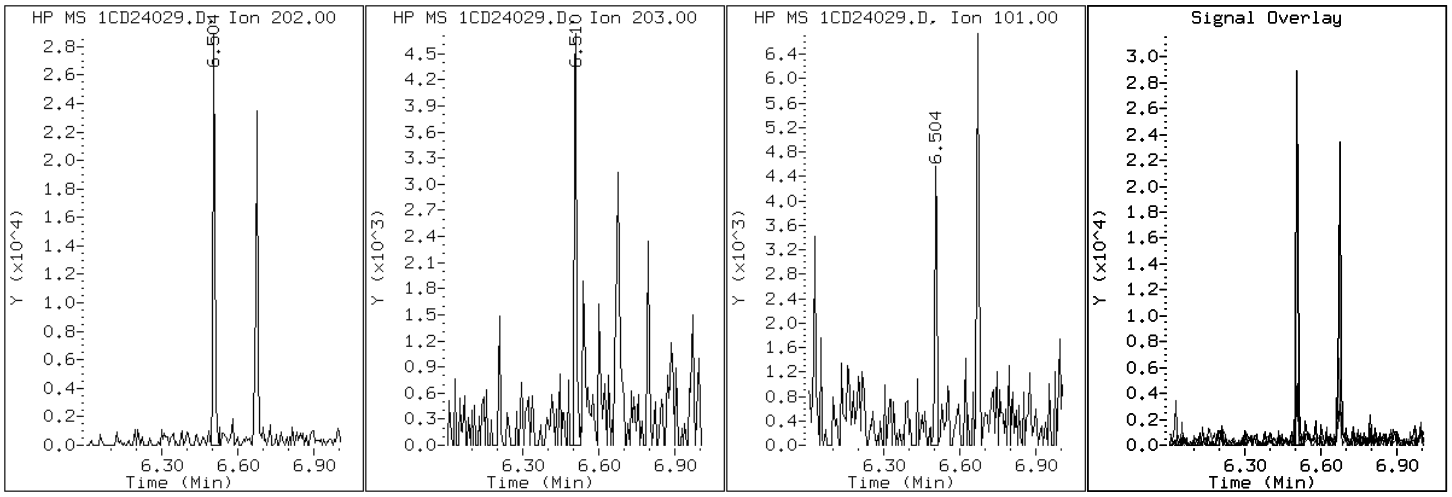
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

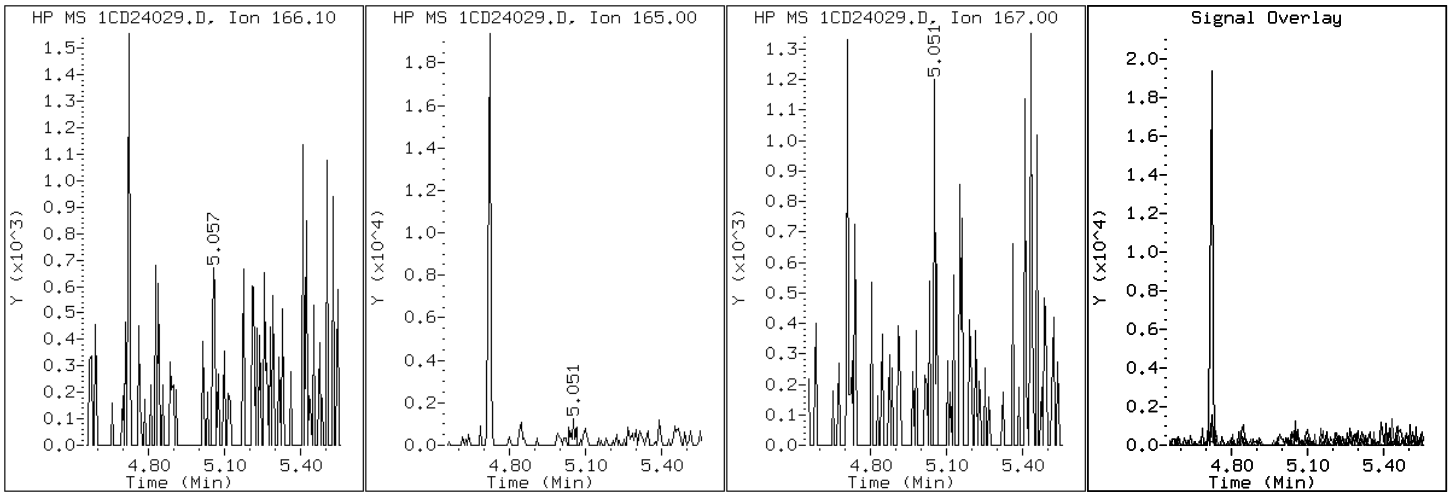
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

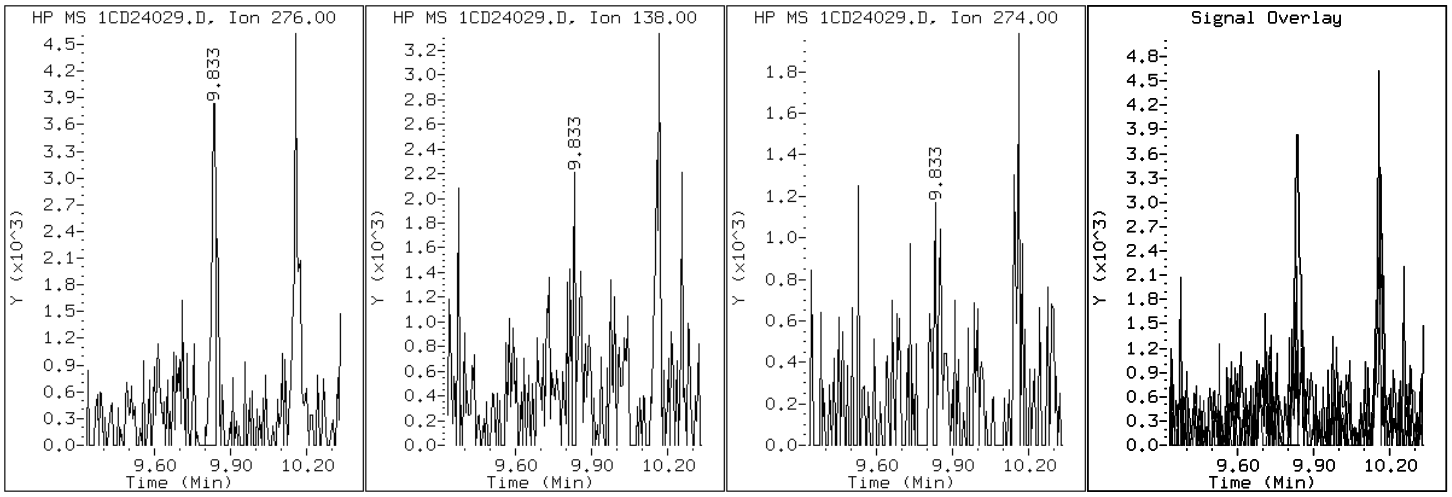
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

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



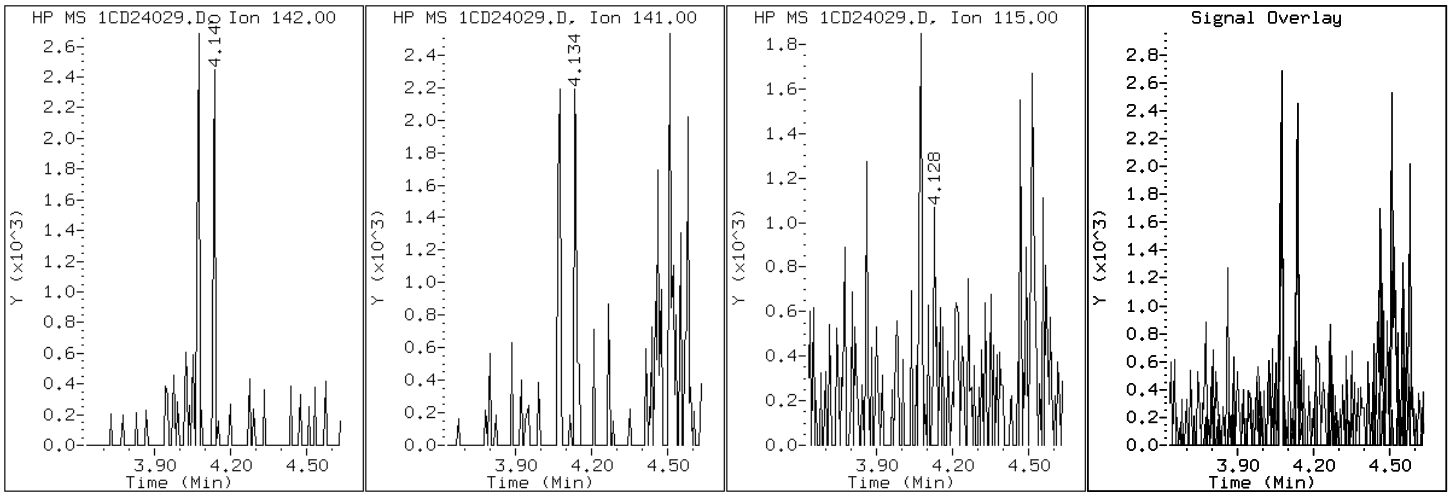
Data File: 1CD24029.D

Date: 24-APR-2013 20:55

Client ID: HP0064B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

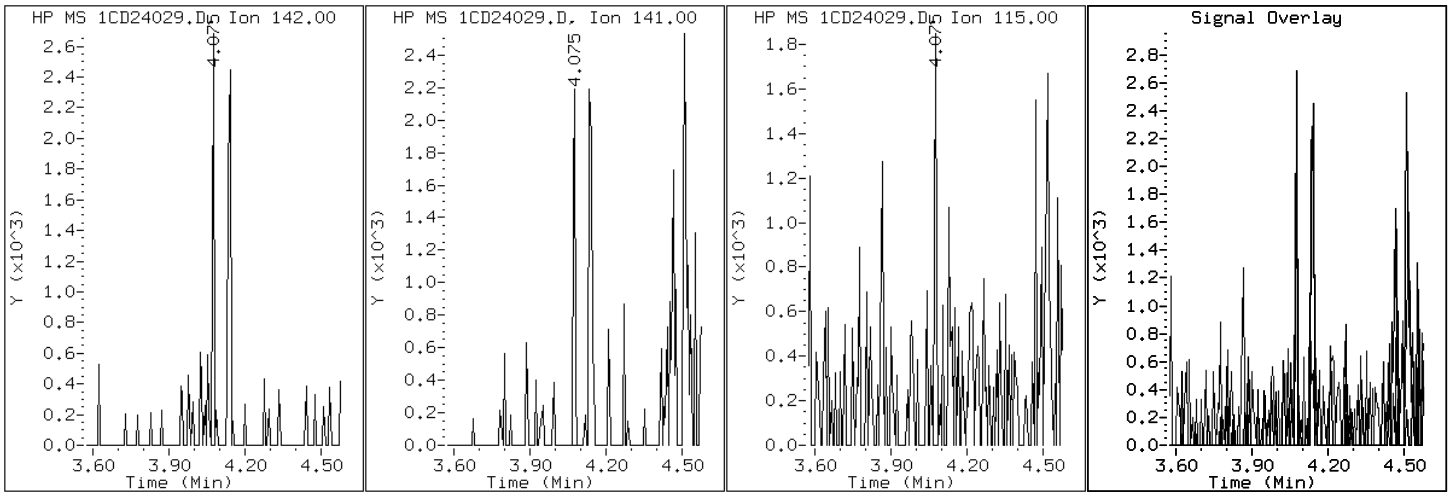
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

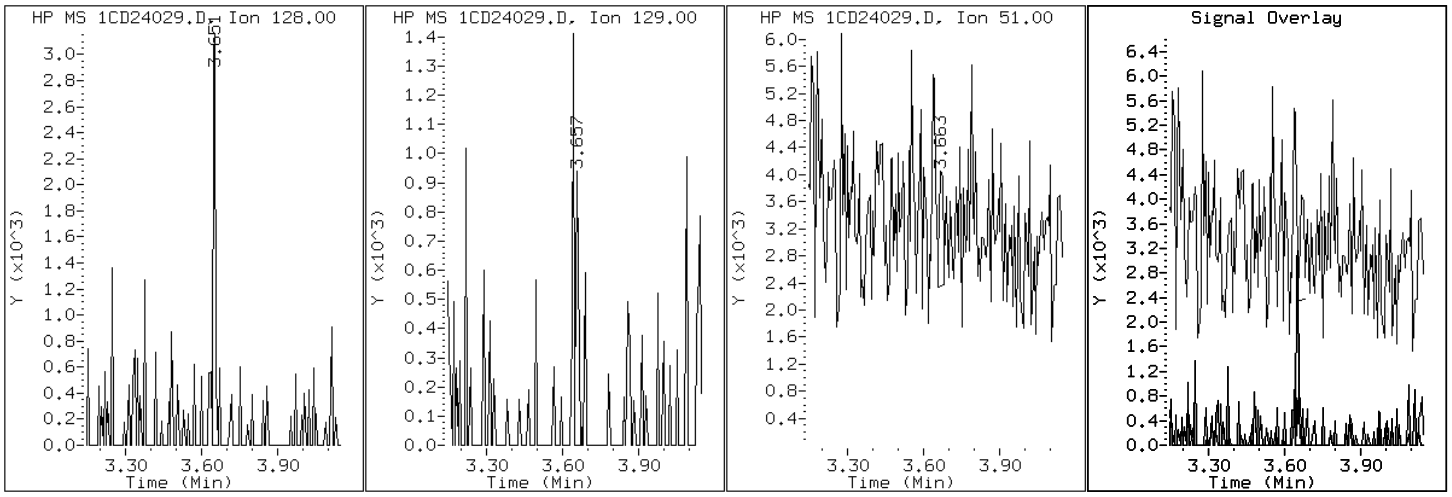
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

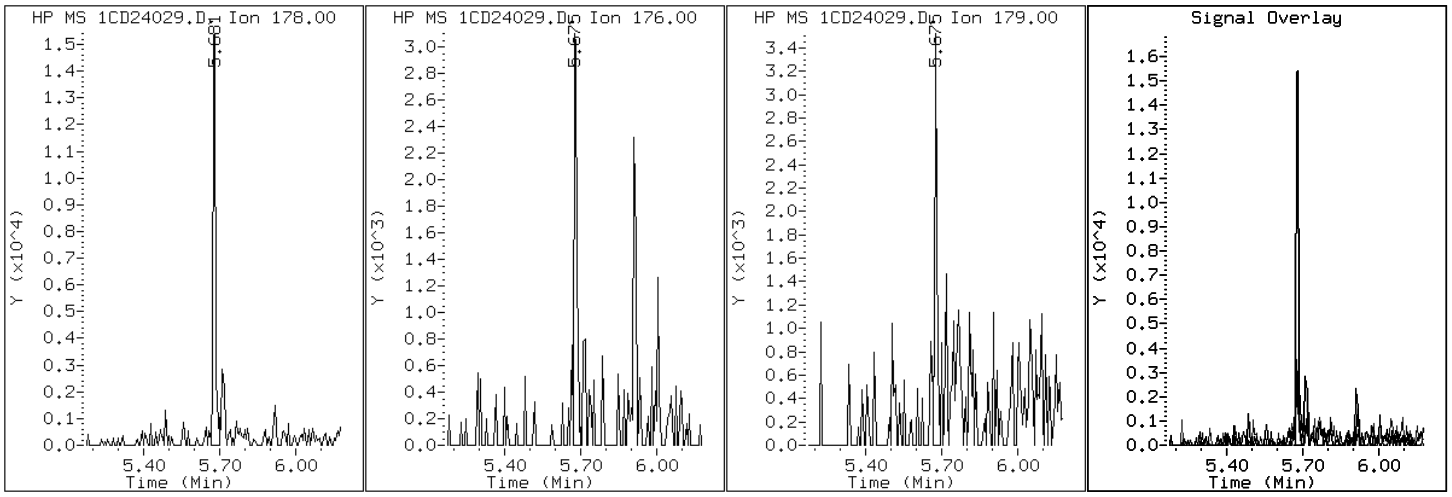
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24029.D

Date: 24-APR-2013 20:55

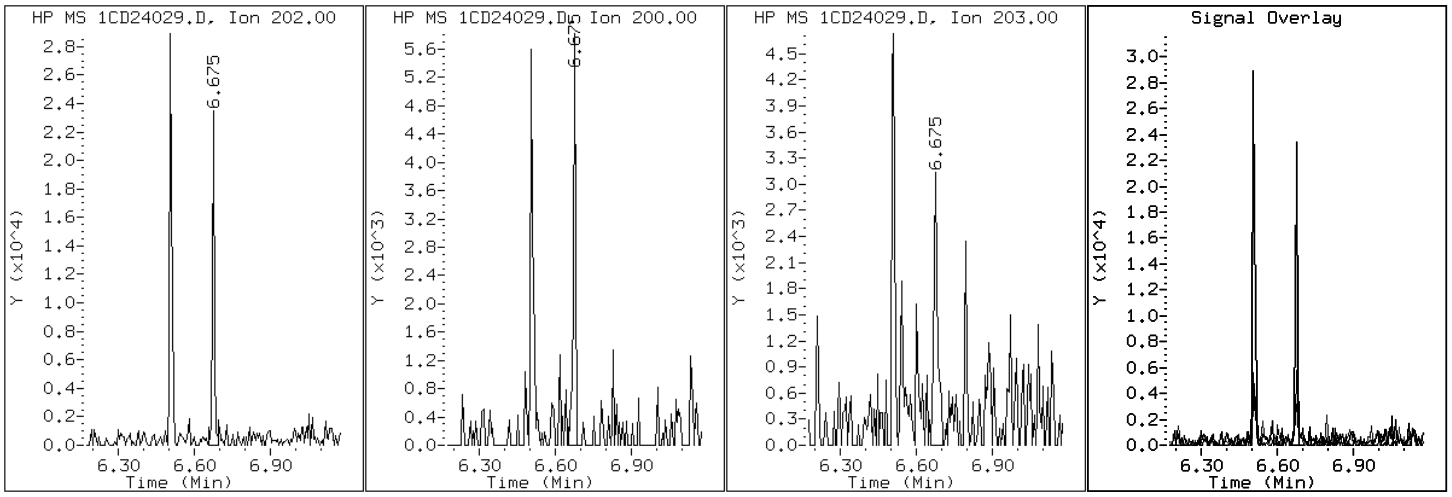
Client ID: HP0064B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-89513-a-9-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24029.D
Inj. Date and Time: 24-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: HP0064B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

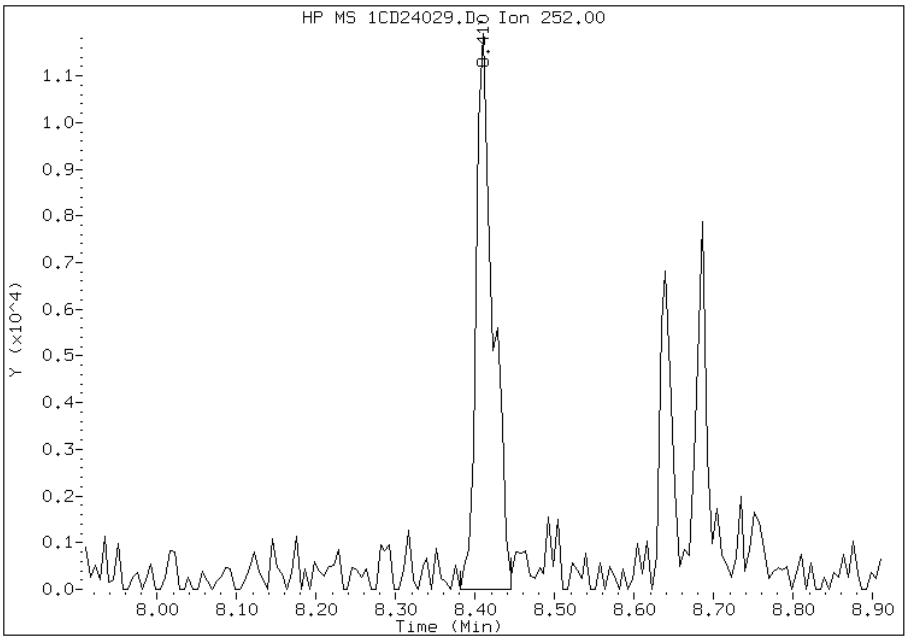
Processing Integration Results

RT: 8.41

Response: 17675

Amount: 3

Conc: 248



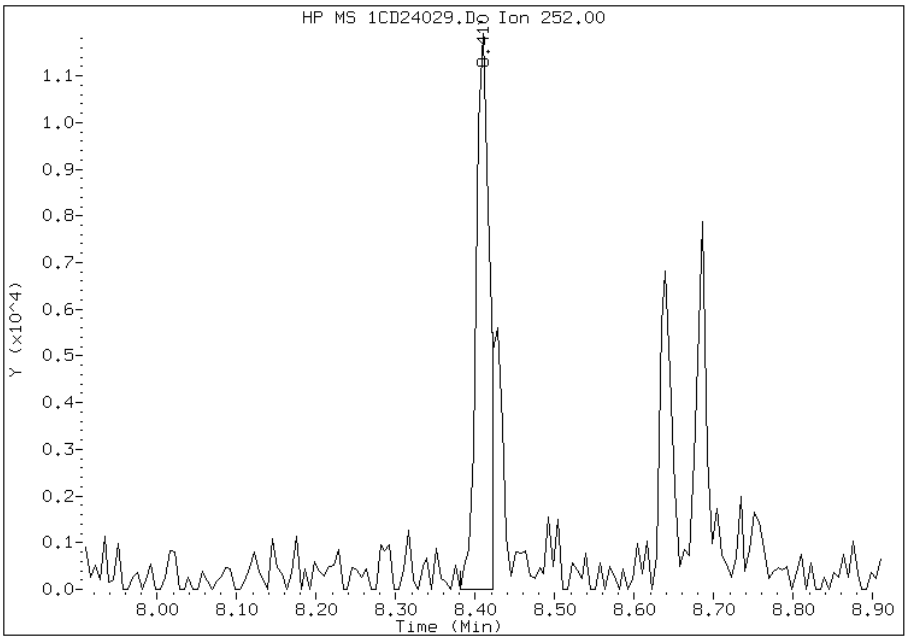
Manual Integration Results

RT: 8.41

Response: 13936

Amount: 2

Conc: 196



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24029.D
Inj. Date and Time: 24-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: HP0064B-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

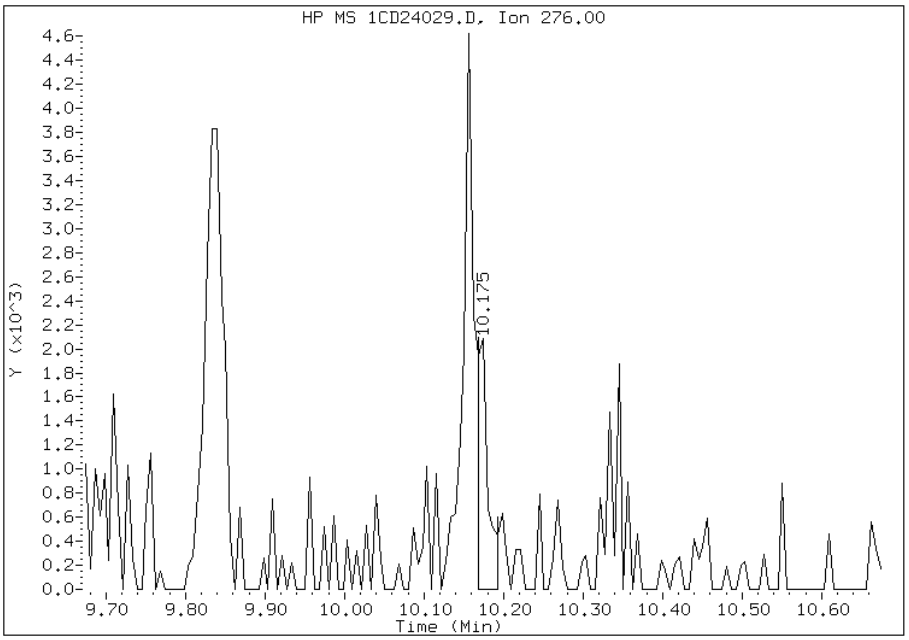
Processing Integration Results

RT: 10.17

Response: 1995

Amount: 0

Conc: 31



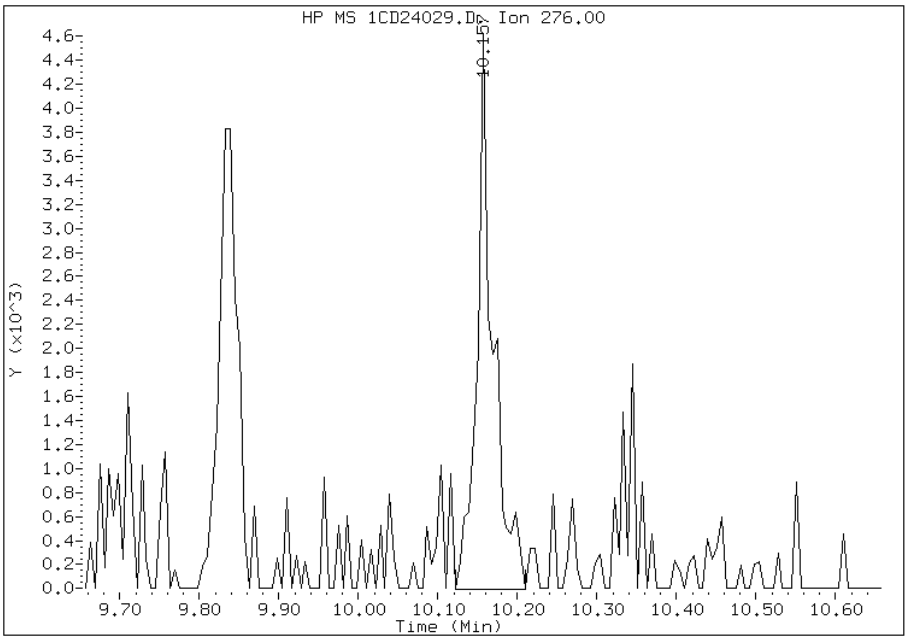
Manual Integration Results

RT: 10.16

Response: 6456

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24029.D
Inj. Date and Time: 24-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: HP0064B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

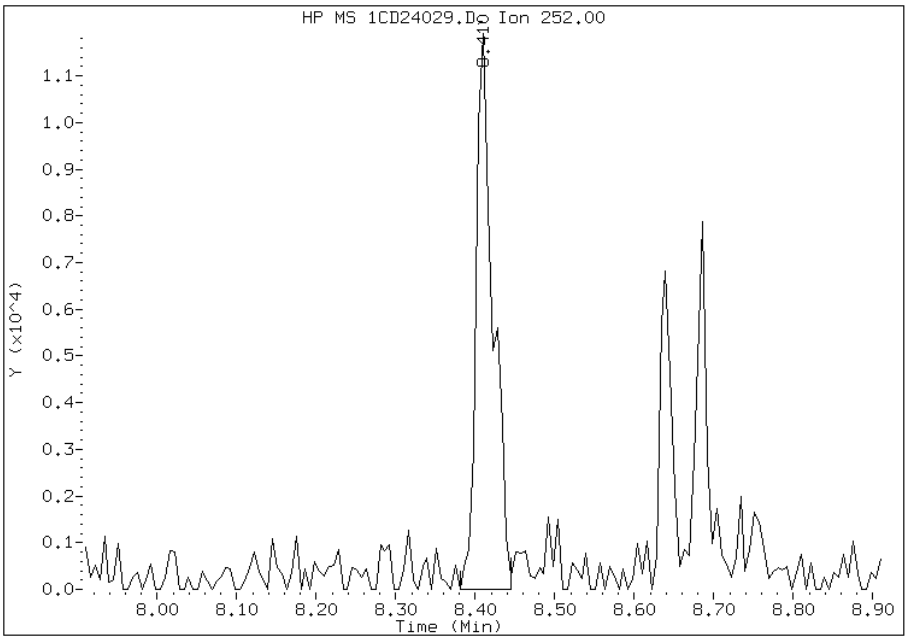
Processing Integration Results

RT: 8.41

Response: 17675

Amount: 3

Conc: 255



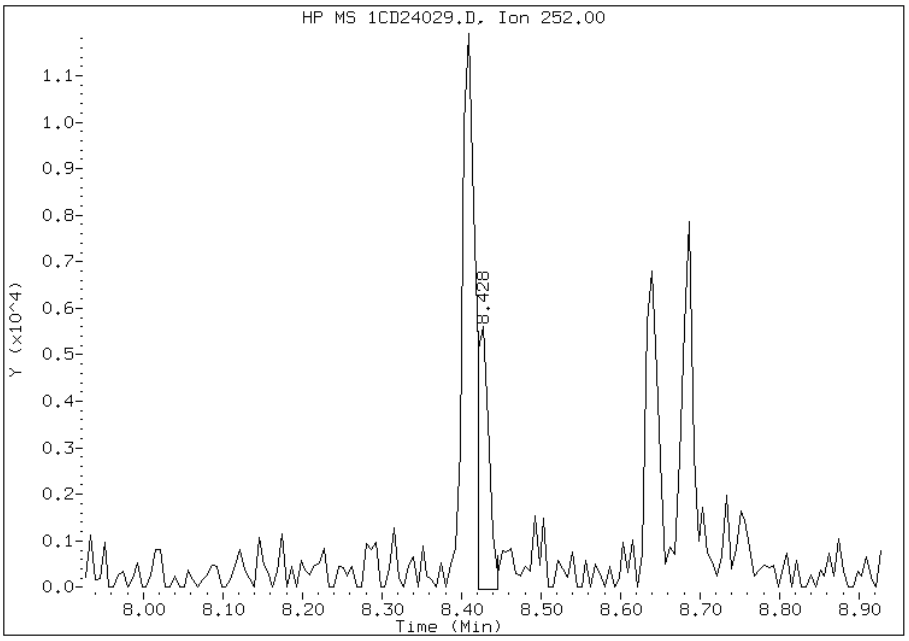
Manual Integration Results

RT: 8.43

Response: 5618

Amount: 1

Conc: 81



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24029.D
Inj. Date and Time: 24-APR-2013 20:55
Instrument ID: BSMC5973.i
Client ID: HP0064B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

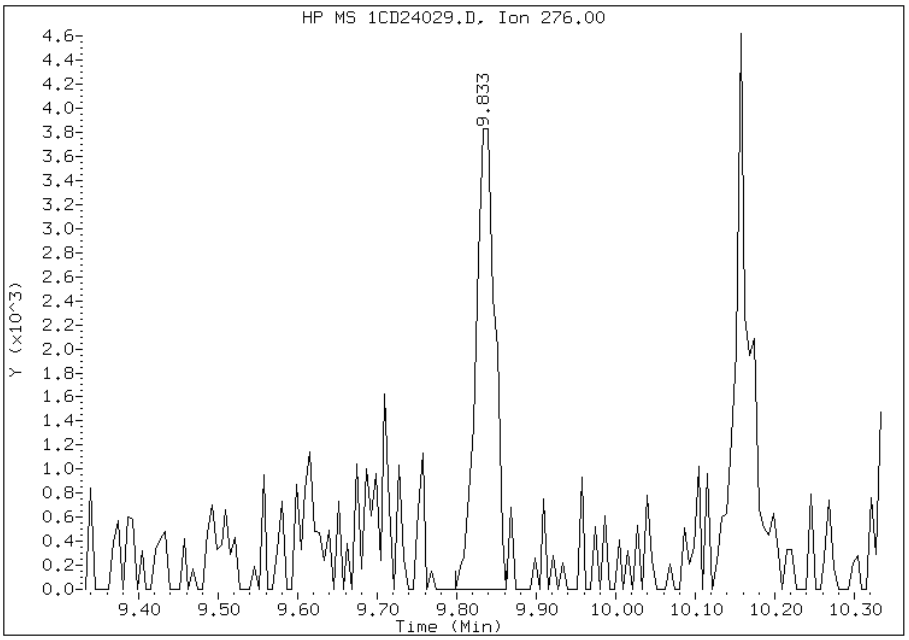
Processing Integration Results

RT: 9.83

Response: 6319

Amount: 2

Conc: 139



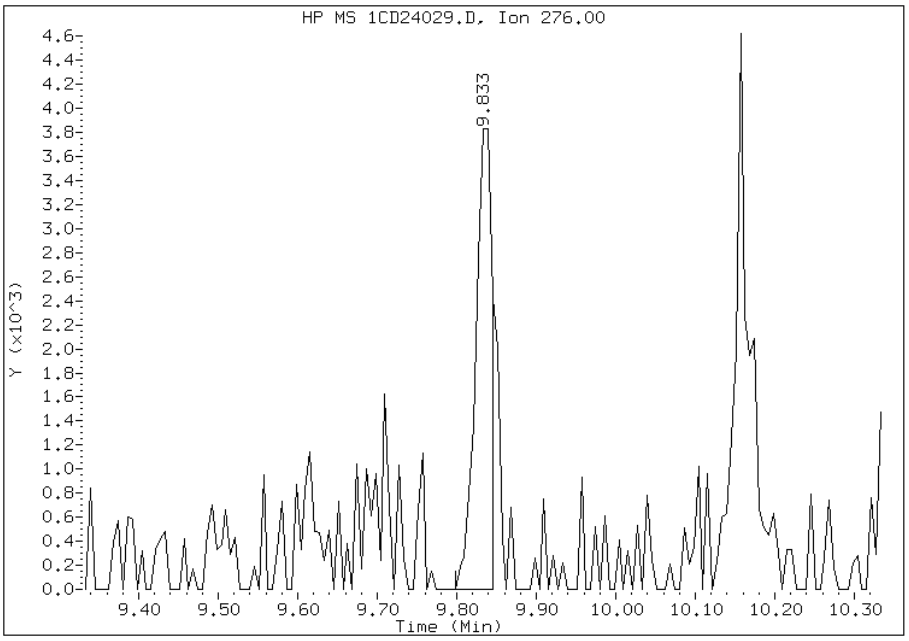
Manual Integration Results

RT: 9.83

Response: 5456

Amount: 2

Conc: 127



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0788A-CS | Lab Sample ID: 680-89513-10

Matrix: Solid | Lab File ID: 1CD24030.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 14:15

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.99(g) | Date Analyzed: 04/24/2013 21:14

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	28		10	5.0
56-55-3	Benzo[a]anthracene	110		9.6	4.7
50-32-8	Benzo[a]pyrene	130		12	6.2
205-99-2	Benzo[b]fluoranthene	160		15	7.3
191-24-2	Benzo[g,h,i]perylene	150		24	5.3
207-08-9	Benzo[k]fluoranthene	81		9.6	4.3
218-01-9	Chrysene	150		11	5.4
53-70-3	Dibenz(a,h)anthracene	29		24	4.9
206-44-0	Fluoranthene	140		24	4.8
86-73-7	Fluorene	27		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.5
90-12-0	1-Methylnaphthalene	92		48	5.3
91-57-6	2-Methylnaphthalene	140		48	8.5
91-20-3	Naphthalene	79		48	5.3
85-01-8	Phenanthrene	150		9.6	4.7
129-00-0	Pyrene	170		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24030.D
Lab Smp Id: 680-89513-A-10-A Client Smp ID: CV0788A-CS
Inj Date : 24-APR-2013 21:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-10-a
Misc Info : 680-89513-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 26
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	16.295	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	165217	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	114244	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	211815	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	15098	4.90940	391.2672
* 18 Chrysene-d12	240	7.610	7.592	(1.000)	225004	40.0000	
* 23 Perylene-d12	264	8.762	8.733	(1.000)	205708	40.0000	(H)
2 Naphthalene	128	3.651	3.646	(1.005)	4354	0.99158	79.0264
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	3753	1.73363	138.1662
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	3181	1.15501	92.0513
9 Fluorene	166	5.063	5.057	(1.072)	1349	0.34132	27.2020
11 Phenanthrene	178	5.680	5.675	(1.002)	10830	1.86738	148.8257
12 Anthracene	178	5.716	5.710	(1.008)	1351	0.35349	28.1721
13 Carbazole	167	5.827	5.822	(1.028)	2175	0.37311	29.7360(Q)
15 Fluoranthene	202	6.515	6.504	(1.149)	12852	1.80984	144.2400

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.686	6.675	(0.879)	14431	2.17166	173.0761
17 Benzo(a)anthracene	228	7.598	7.581	(0.998)	8635	1.40083	111.6425
19 Chrysene	228	7.621	7.610	(1.002)	11695	1.82020	145.0656
20 Benzo(b)fluoranthene	252	8.433	8.410	(0.962)	11486	2.01890	160.9010(H)
21 Benzo(k)fluoranthene	252	8.451	8.428	(0.964)	5649	1.02048	81.3295(QH)
22 Benzo(a)pyrene	252	8.715	8.686	(0.995)	8073	1.65170	131.6363(H)
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.833	(1.128)	5463	1.57343	125.3985(MH)
25 Dibenzo(a,h)anthracene	278	9.898	9.851	(1.130)	1786	0.35805	28.5357(MH)
26 Benzo(g,h,i)perylene	276	10.221	10.163	(1.166)	10065	1.93779	154.4370(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: 1CD24030.D

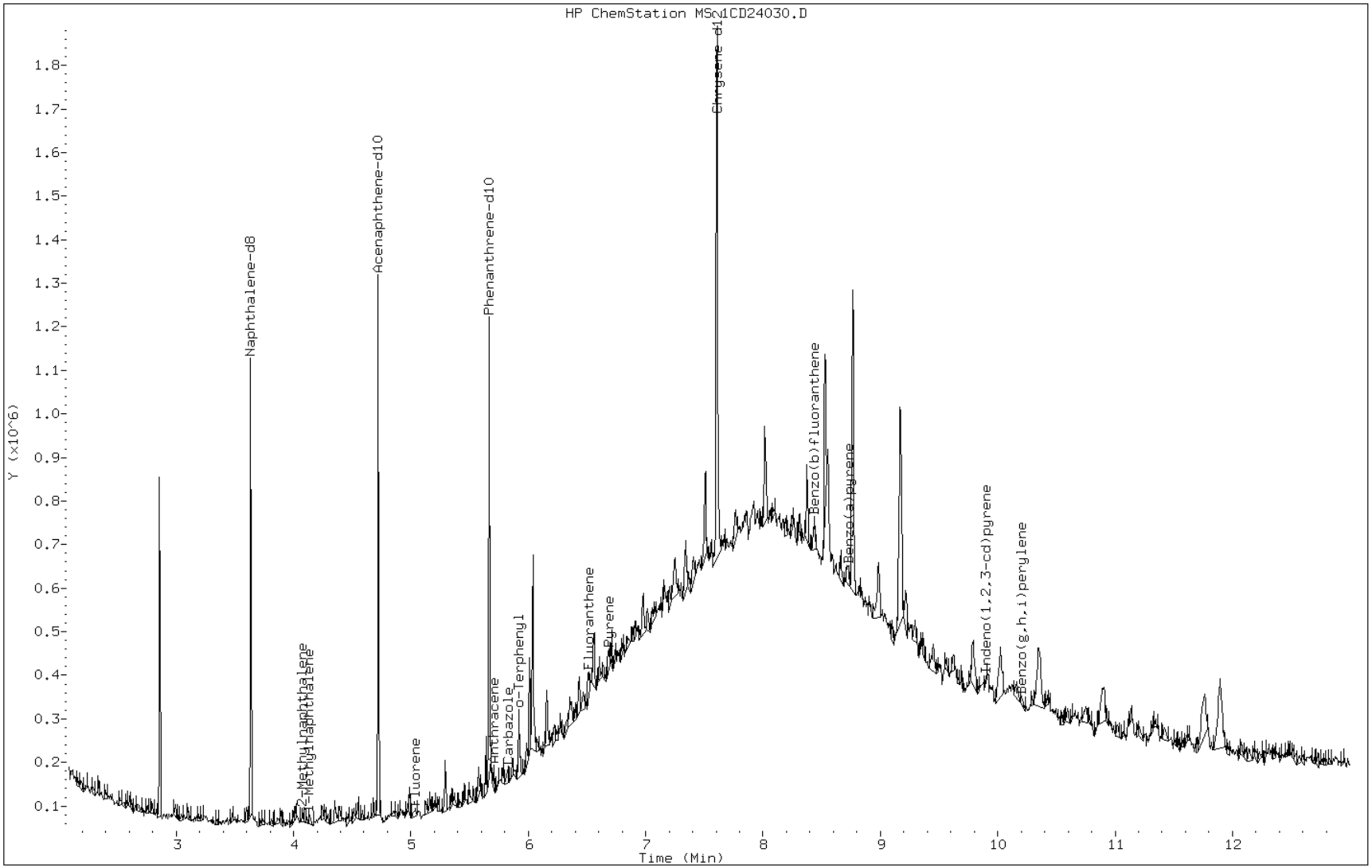
Date: 24-APR-2013 21:14

Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

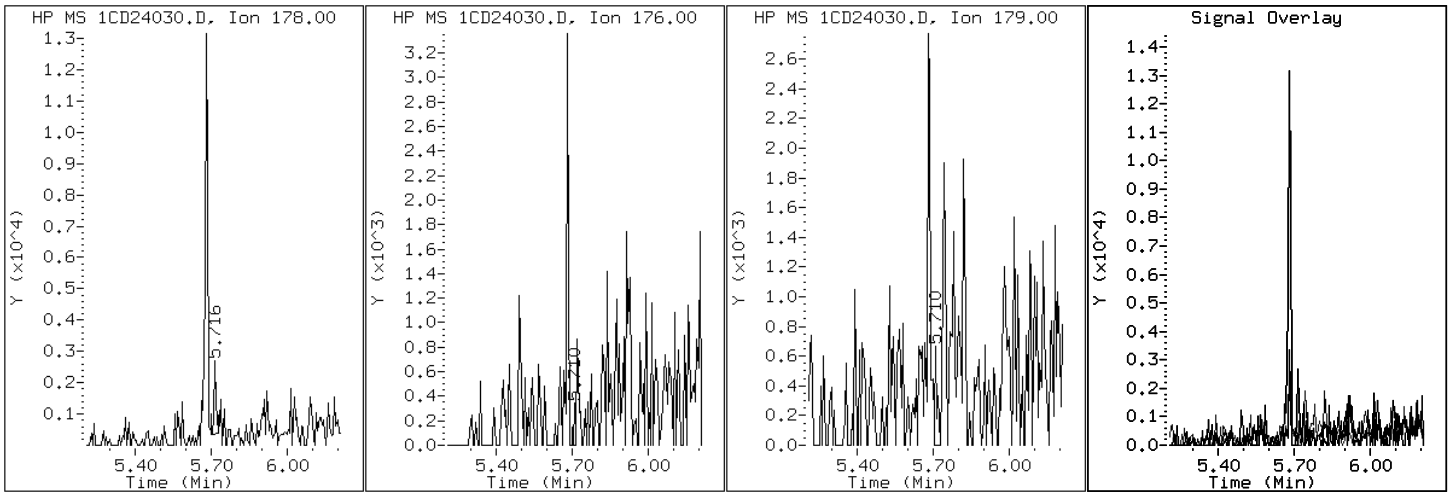
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

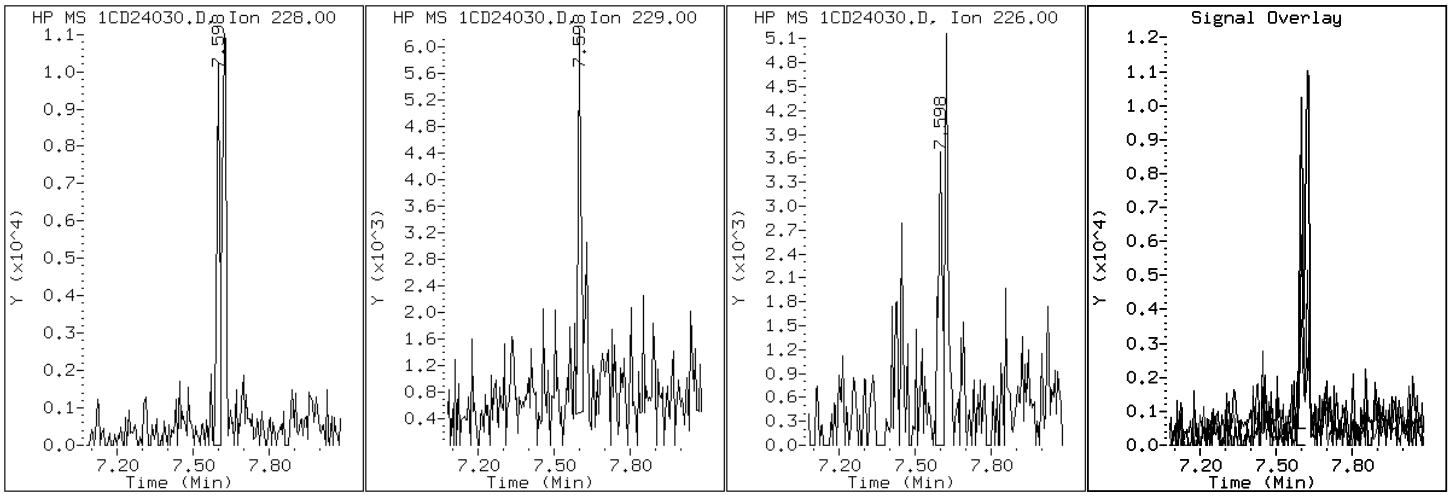
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

17 Benzo(a)anthracene



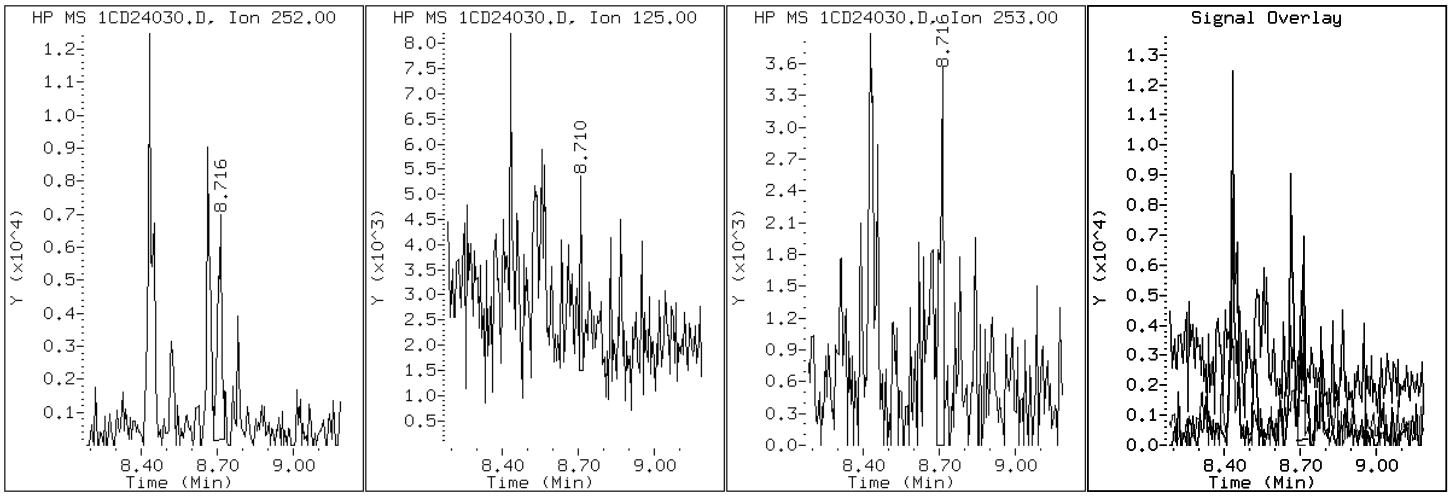
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

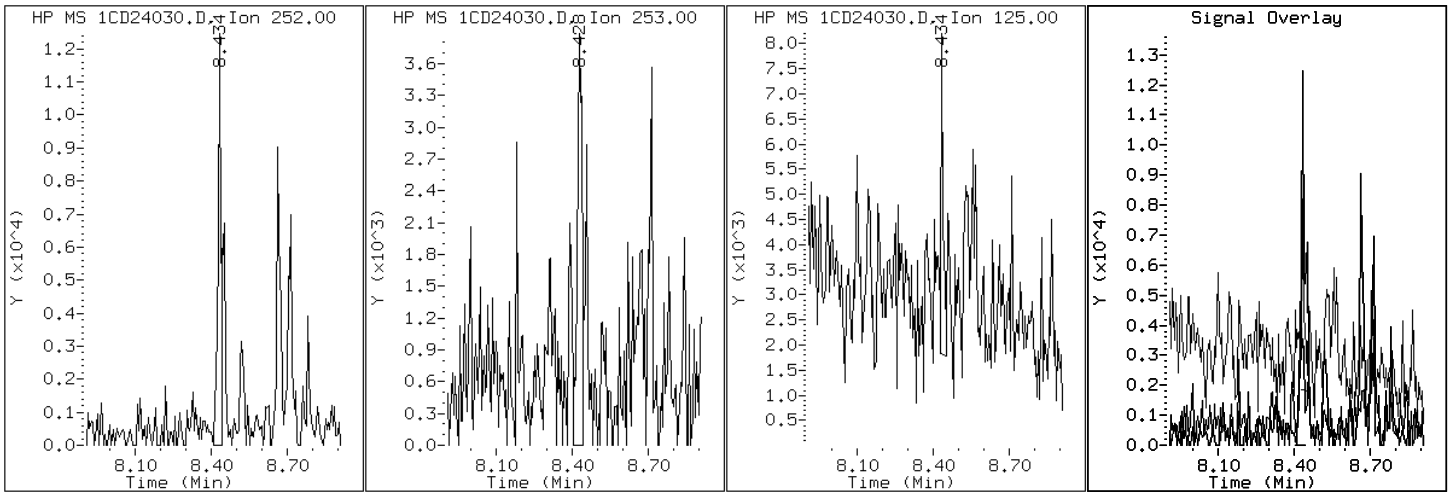
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

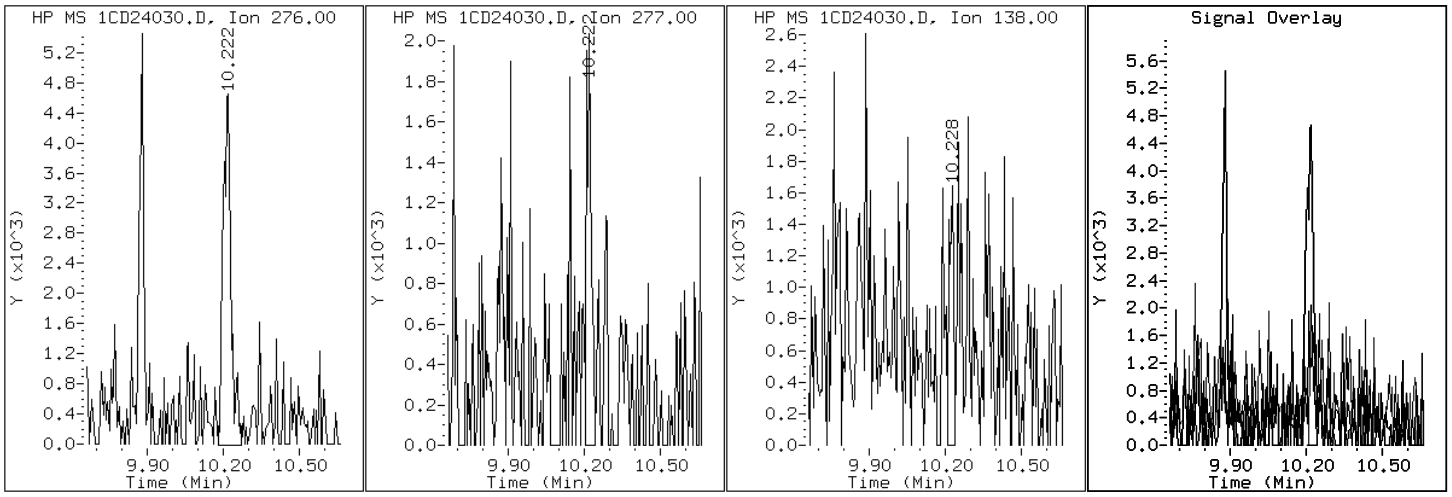
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



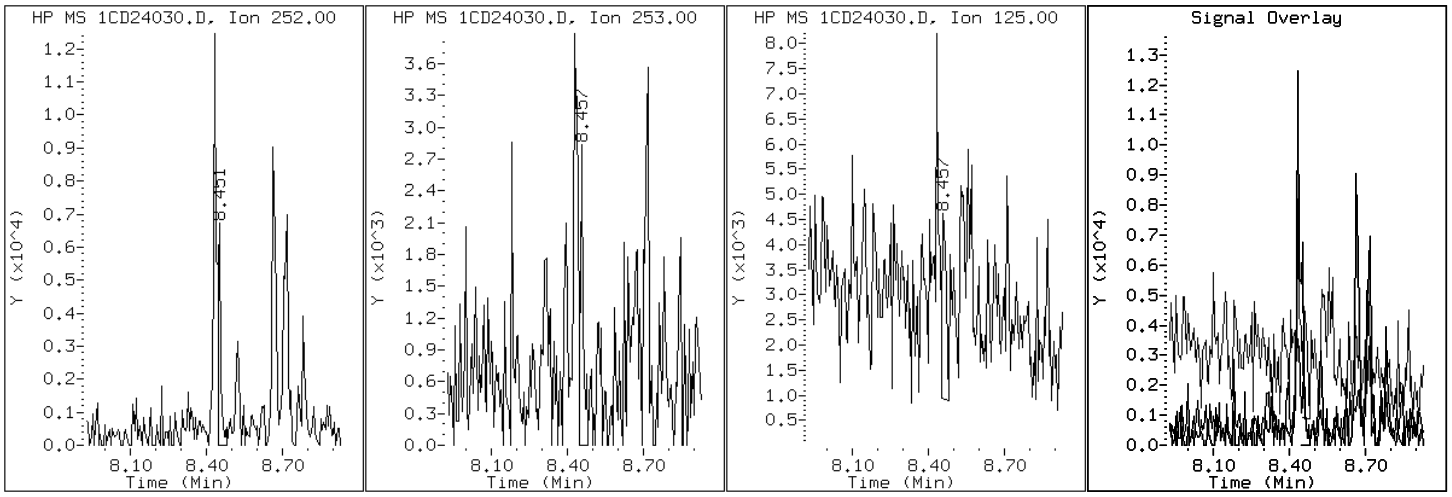
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

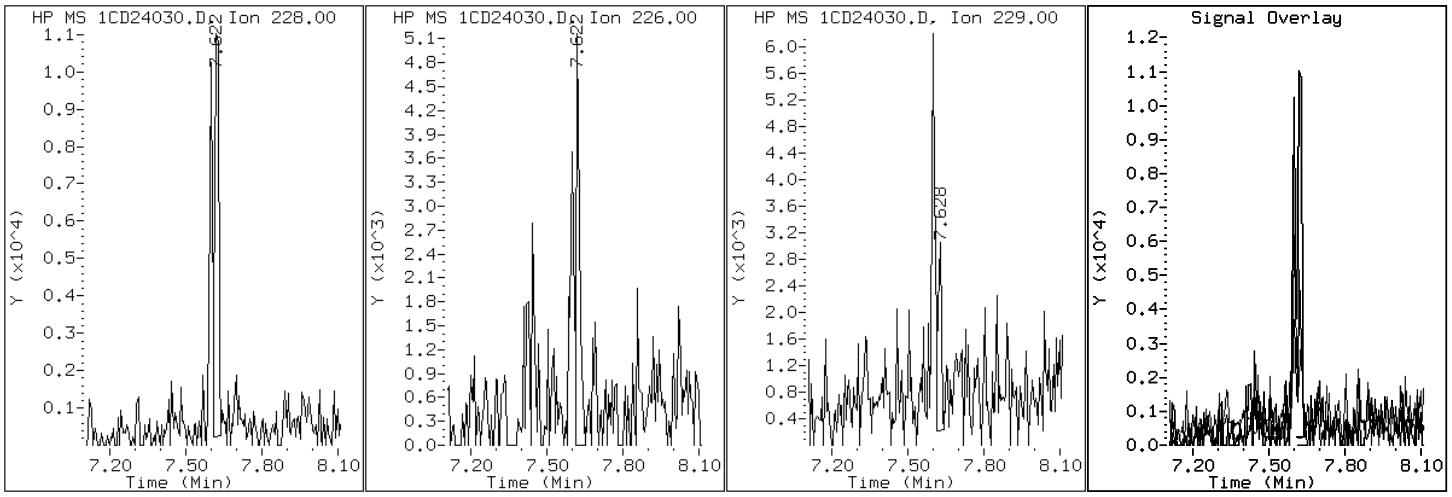
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

19 Chrysene



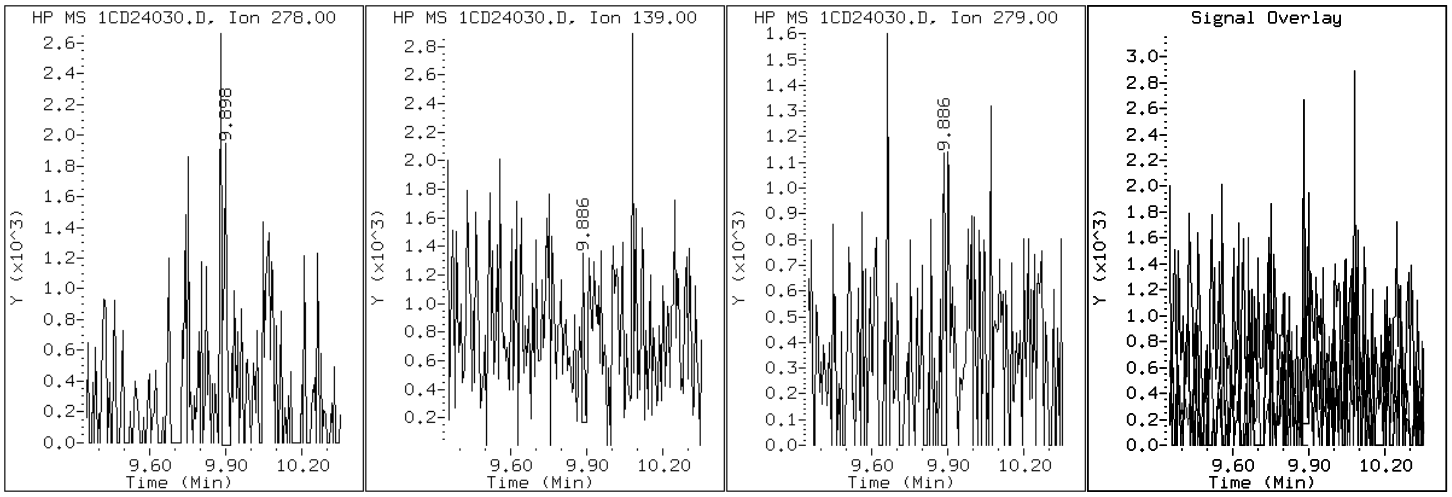
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



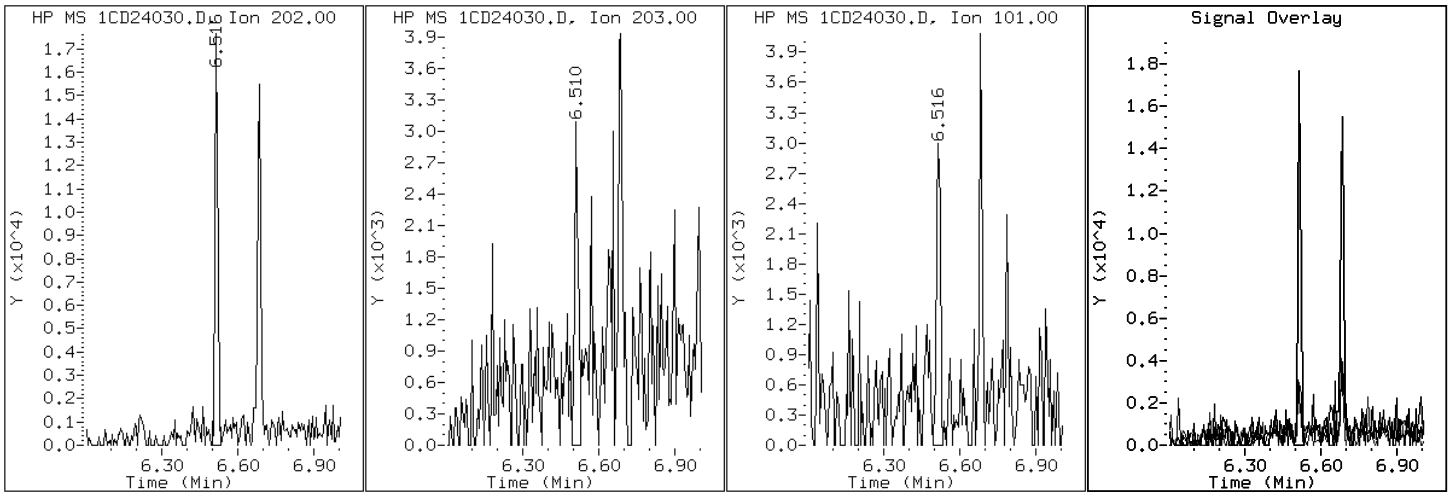
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

15 Fluoranthene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

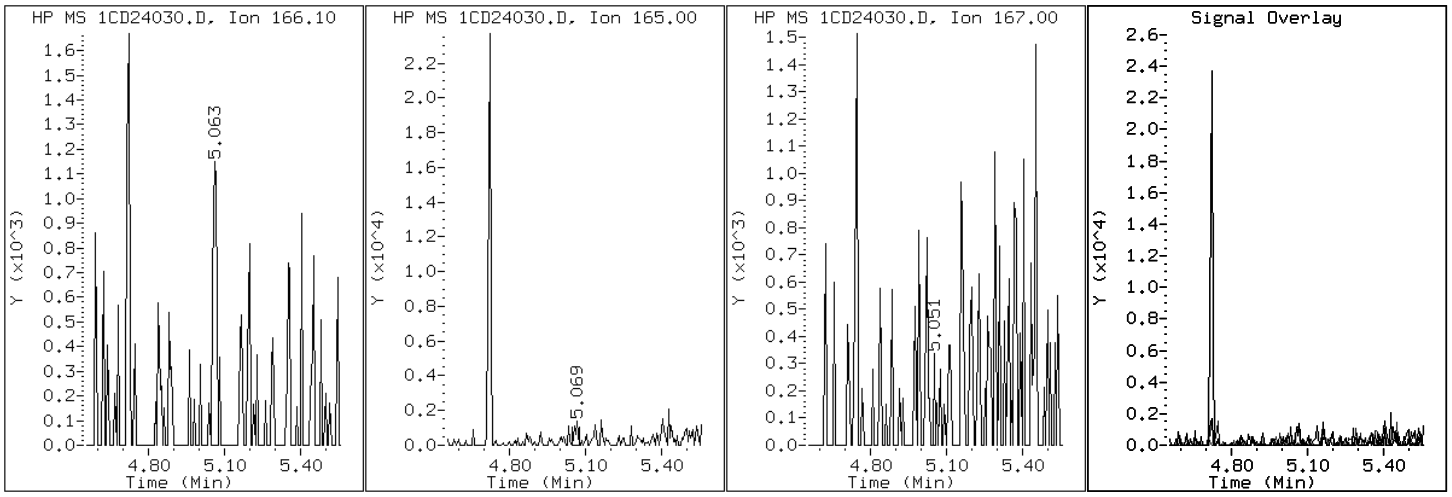
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CD24030.D

Date: 24-APR-2013 21:14

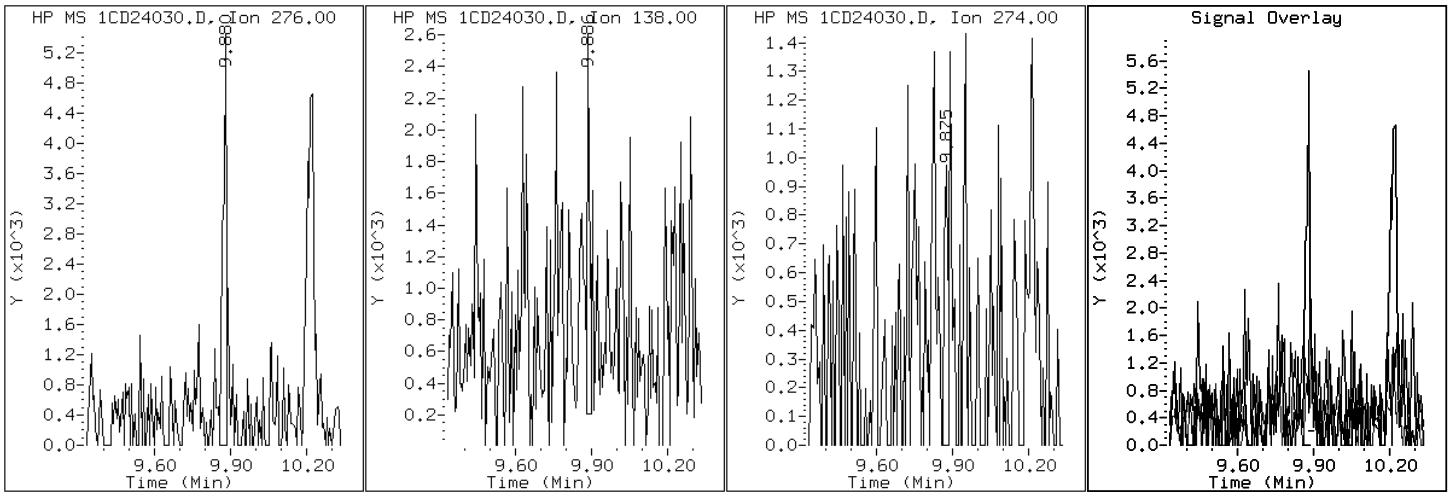
Client ID: CV0788A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a

Operator: SCC

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



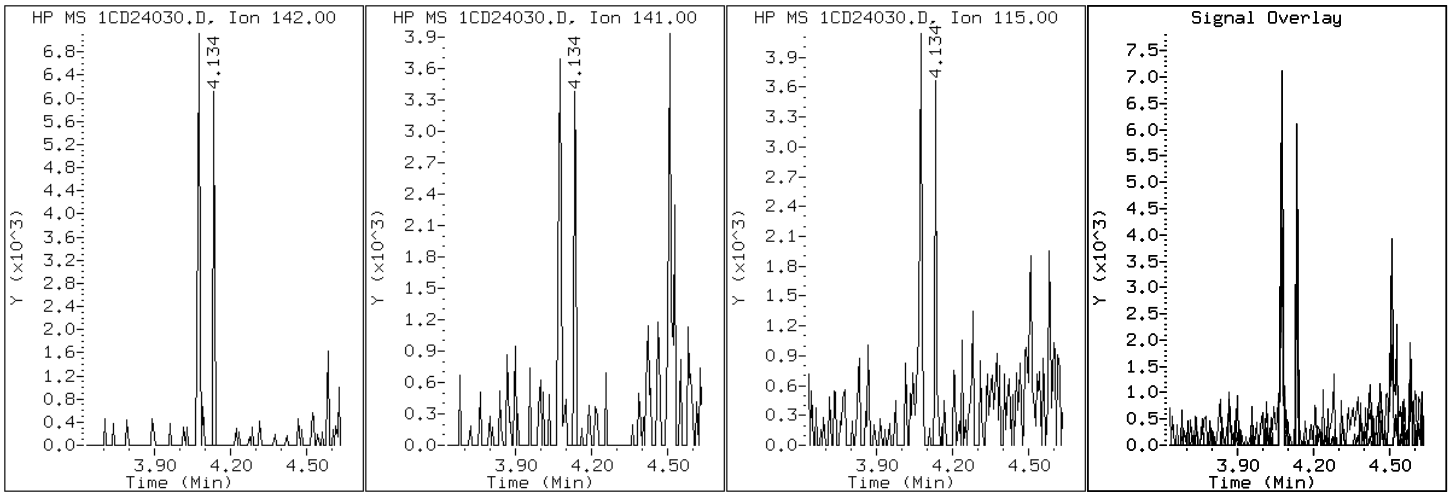
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

4 1-Methylnaphthalene



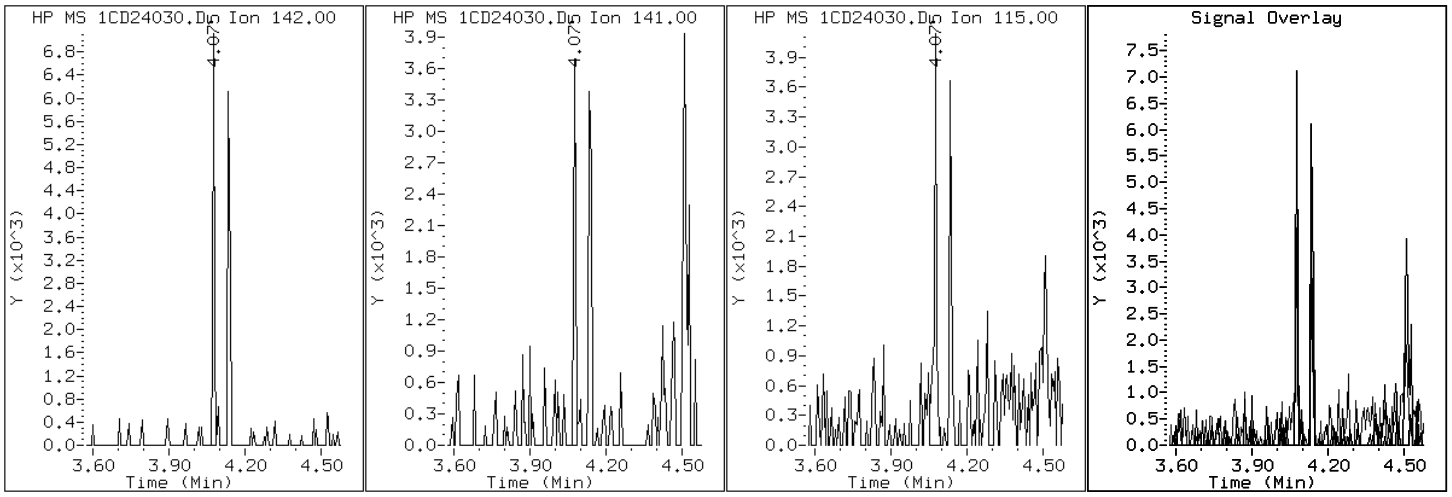
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

3 2-Methylnaphthalene



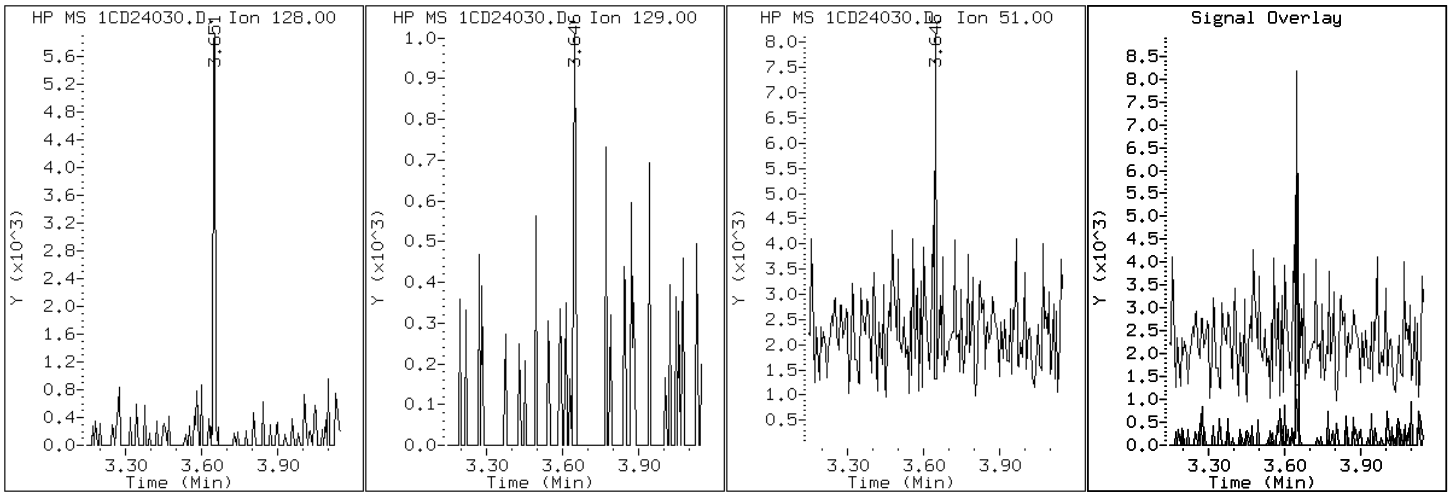
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

2 Naphthalene



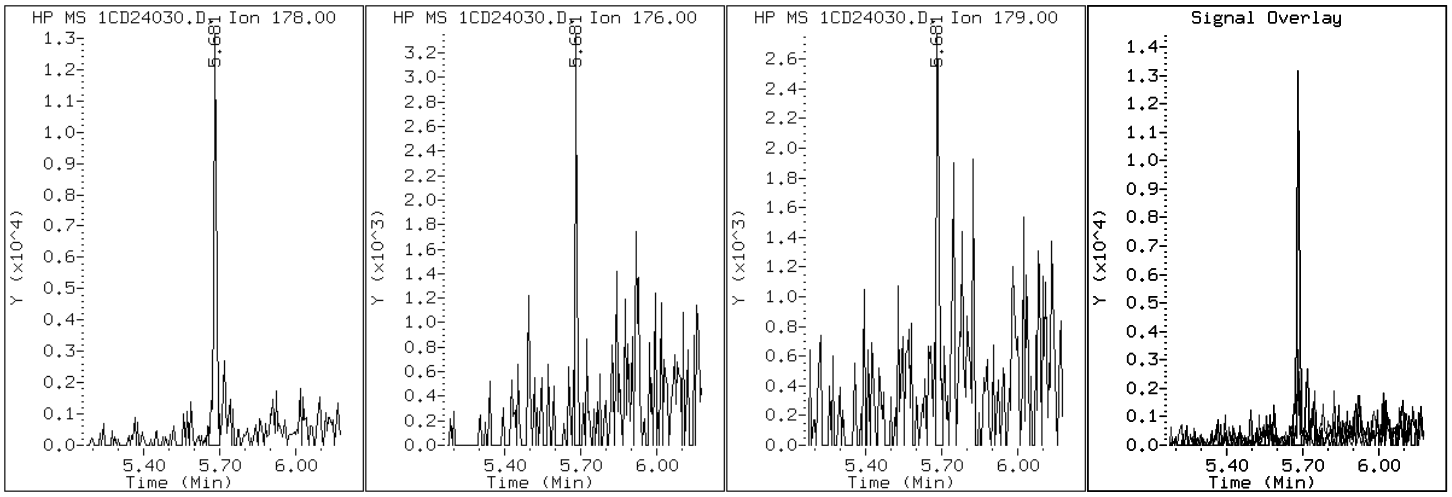
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

11 Phenanthrene



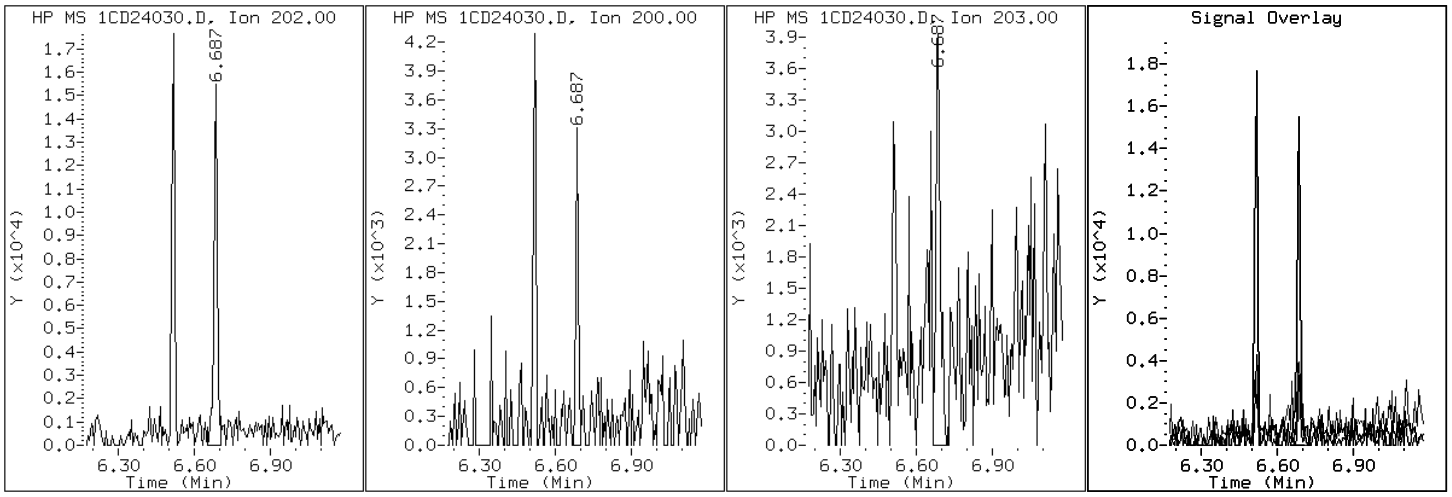
Data File: 1CD24030.D

Date: 24-APR-2013 21:14

Client ID: CV0788A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-10-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24030.D
Inj. Date and Time: 24-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID: CV0788A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

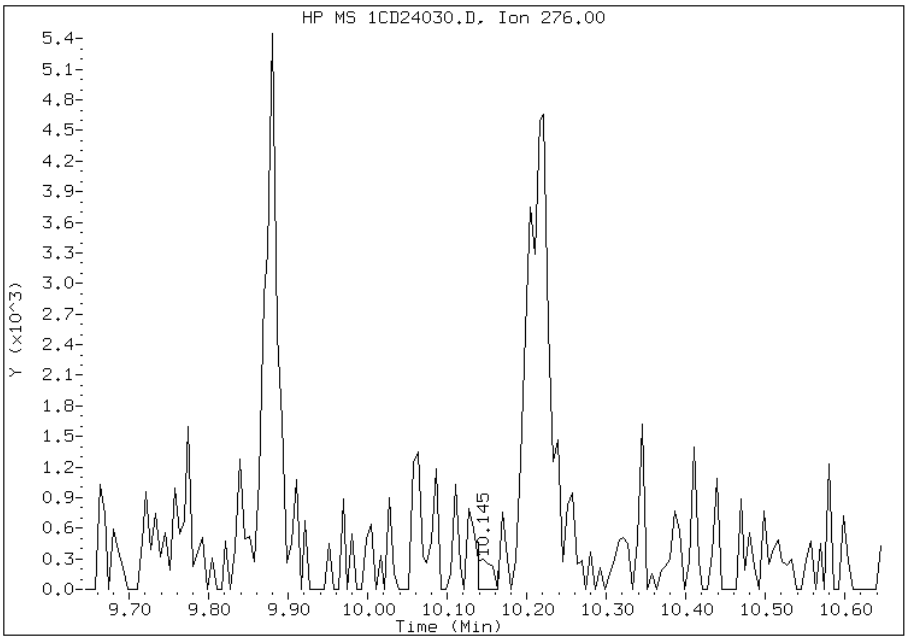
Processing Integration Results

RT: 10.15

Response: 371

Amount: 0

Conc: 6



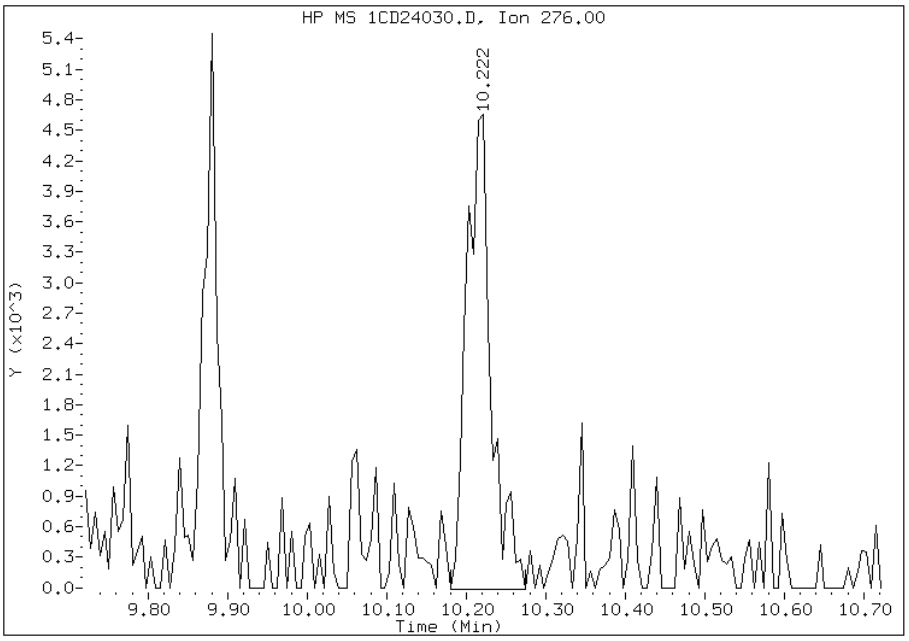
Manual Integration Results

RT: 10.22

Response: 10065

Amount: 2

Conc: 154



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24030.D
Inj. Date and Time: 24-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID: CV0788A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

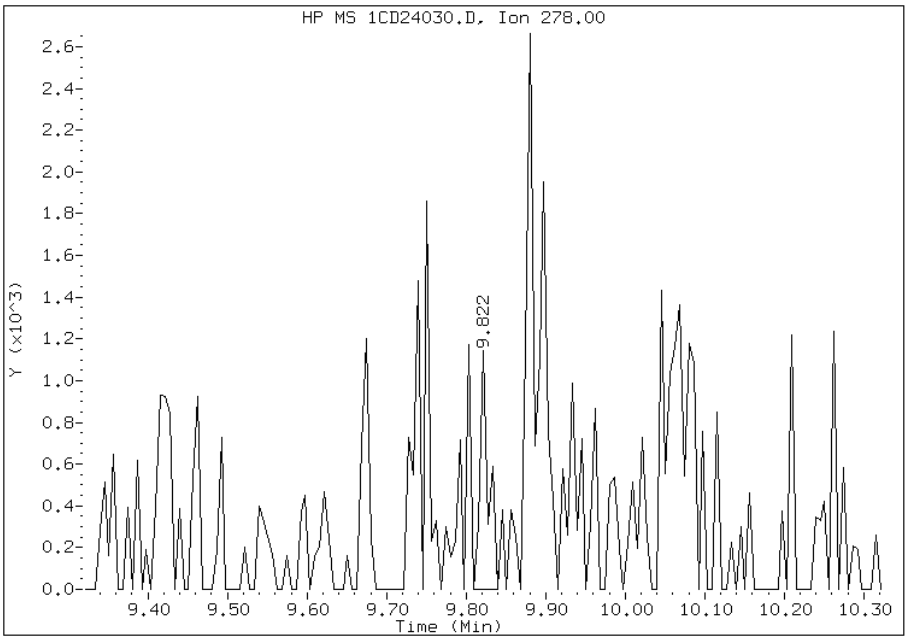
Processing Integration Results

RT: 9.82

Response: 834

Amount: 0

Conc: 13



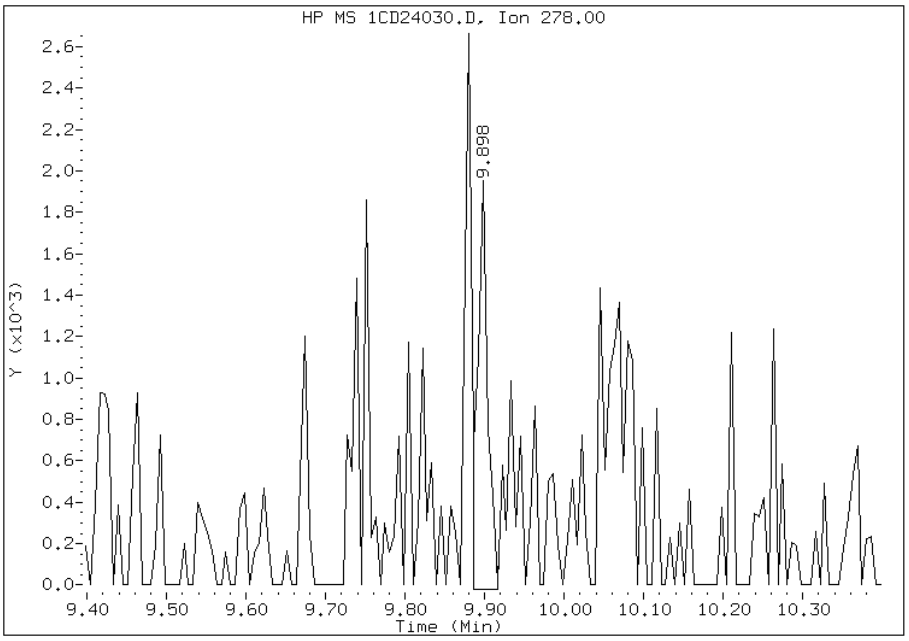
Manual Integration Results

RT: 9.90

Response: 1786

Amount: 0

Conc: 29



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24030.D
Inj. Date and Time: 24-APR-2013 21:14
Instrument ID: BSMC5973.i
Client ID: CV0788A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

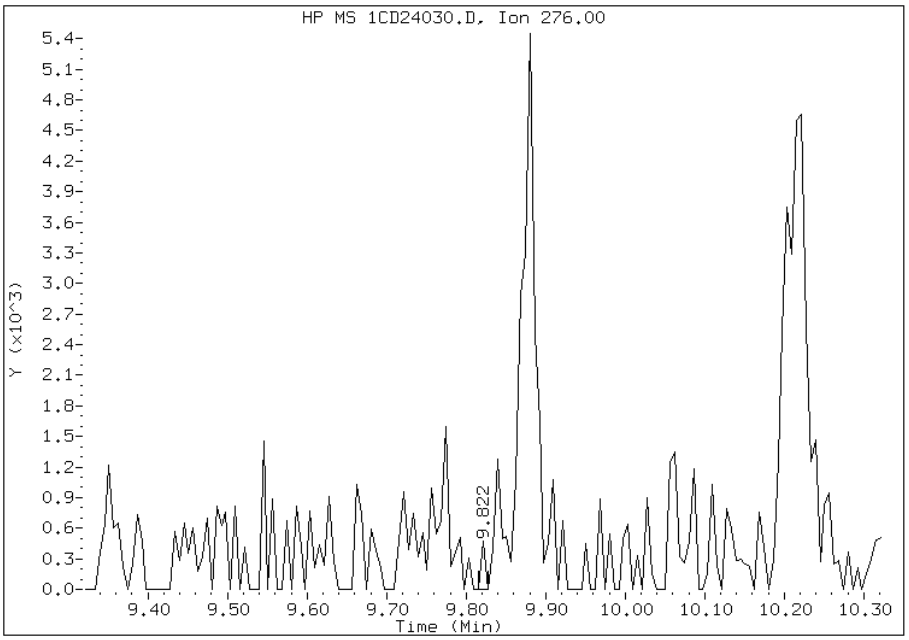
Processing Integration Results

RT: 9.82

Response: 165

Amount: 1

Conc: 52



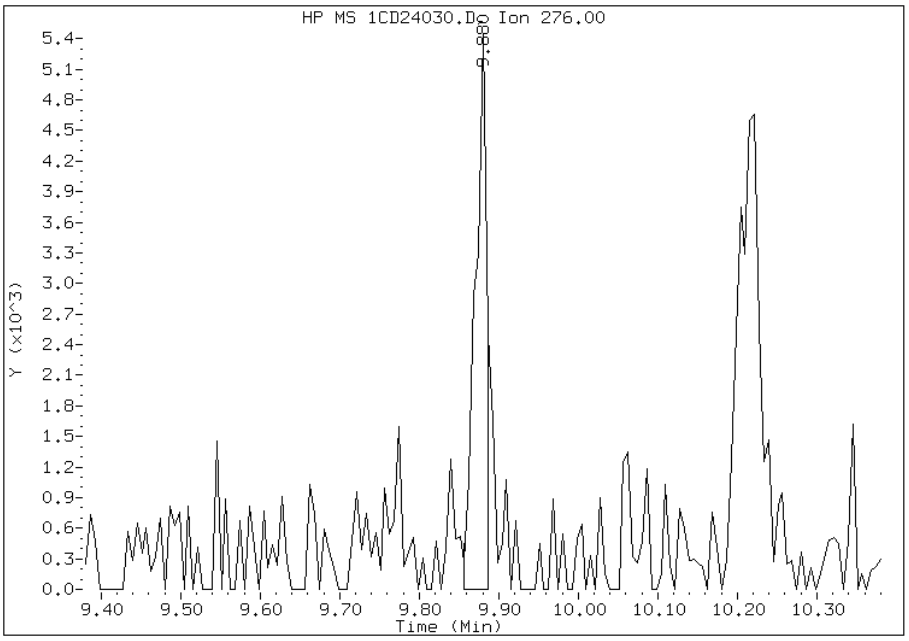
Manual Integration Results

RT: 9.88

Response: 5463

Amount: 2

Conc: 125



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0788B-CS | Lab Sample ID: 680-89513-11

Matrix: Solid | Lab File ID: 1CD24031.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 14:20

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.06(g) | Date Analyzed: 04/24/2013 21:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	50	U	50	6.2
120-12-7	Anthracene	50		10	5.2
56-55-3	Benzo[a]anthracene	140		9.9	4.8
50-32-8	Benzo[a]pyrene	120		13	6.5
205-99-2	Benzo[b]fluoranthene	220		15	7.6
191-24-2	Benzo[g,h,i]perylene	99		25	5.5
207-08-9	Benzo[k]fluoranthene	120		9.9	4.5
218-01-9	Chrysene	180		11	5.6
53-70-3	Dibenz(a,h)anthracene	18	J	25	5.1
206-44-0	Fluoranthene	190		25	5.0
86-73-7	Fluorene	20	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.8
90-12-0	1-Methylnaphthalene	78		50	5.5
91-57-6	2-Methylnaphthalene	170		50	8.8
91-20-3	Naphthalene	110		50	5.5
85-01-8	Phenanthrene	180		9.9	4.8
129-00-0	Pyrene	190		25	4.6

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\1C042413.b\1CD24031.D
Lab Smp Id: 680-89513-A-11-A Client Smp ID: CV0788B-CS
Inj Date : 24-APR-2013 21:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-11-a
Misc Info : 680-89513-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 27
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	19.762	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	160905	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	109337	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	198091	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	17318	6.02142	498.3024
* 18 Chrysene-d12	240	7.610	7.592	(1.000)	205750	40.0000	
* 23 Perylene-d12	264	8.768	8.733	(1.000)	212128	40.0000	(H)
2 Naphthalene	128	3.645	3.646	(1.003)	5668	1.30508	108.0017(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	4551	2.00357	165.8057
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	2439	0.93835	77.6533
9 Fluorene	166	5.068	5.057	(1.073)	934	0.24625	20.3787(Q)
11 Phenanthrene	178	5.680	5.675	(1.002)	12100	2.23091	184.6189
12 Anthracene	178	5.716	5.710	(1.008)	2781	0.60908	50.4040
13 Carbazole	167	5.827	5.822	(1.028)	2255	0.41363	34.2303(Q)
15 Fluoranthene	202	6.515	6.504	(1.149)	15129	2.28476	189.0756

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.686	6.675	(0.879)	13593	2.23698	185.1210
17 Benzo(a)anthracene	228	7.598	7.581	(0.998)	9412	1.69247	140.0602
19 Chrysene	228	7.627	7.610	(1.002)	12939	2.20227	182.2487
20 Benzo(b)fluoranthene	252	8.433	8.410	(0.962)	15548	2.65016	219.3143(MH)
21 Benzo(k)fluoranthene	252	8.451	8.428	(0.964)	8433	1.47729	122.2534(M)
22 Benzo(a)pyrene	252	8.715	8.686	(0.994)	7490	1.50829	124.8188(H)
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.833	(1.127)	4933	1.45466	120.3801(MH)
25 Dibenzo(a,h)anthracene	278	9.903	9.851	(1.129)	1124	0.21852	18.0832(QH)
26 Benzo(g,h,i)perylene	276	10.227	10.163	(1.166)	6414	1.19750	99.0990(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: 1CD24031.D

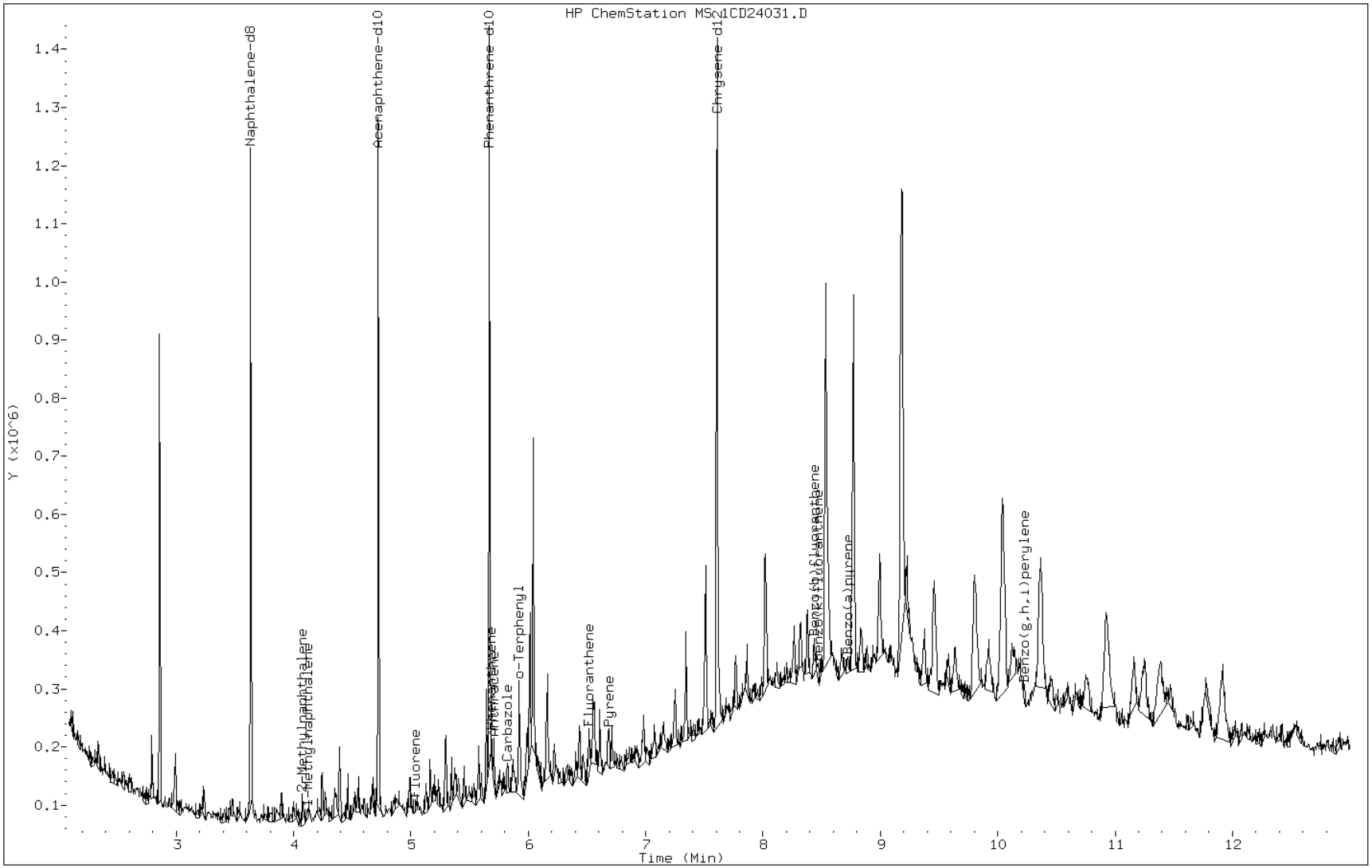
Date: 24-APR-2013 21:32

Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC



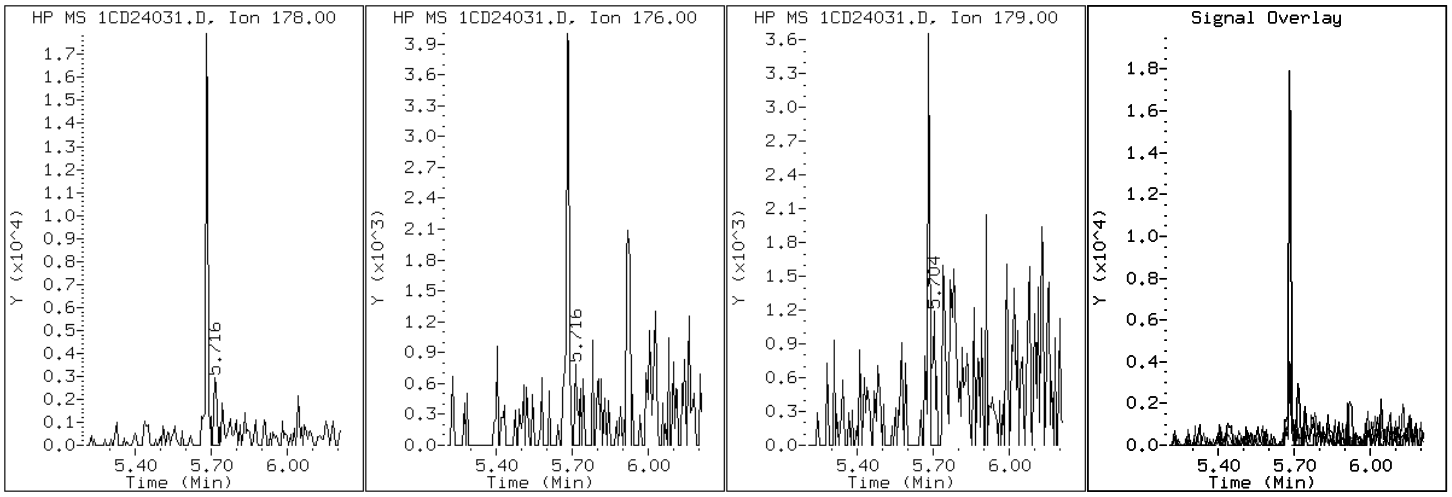
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

12 Anthracene



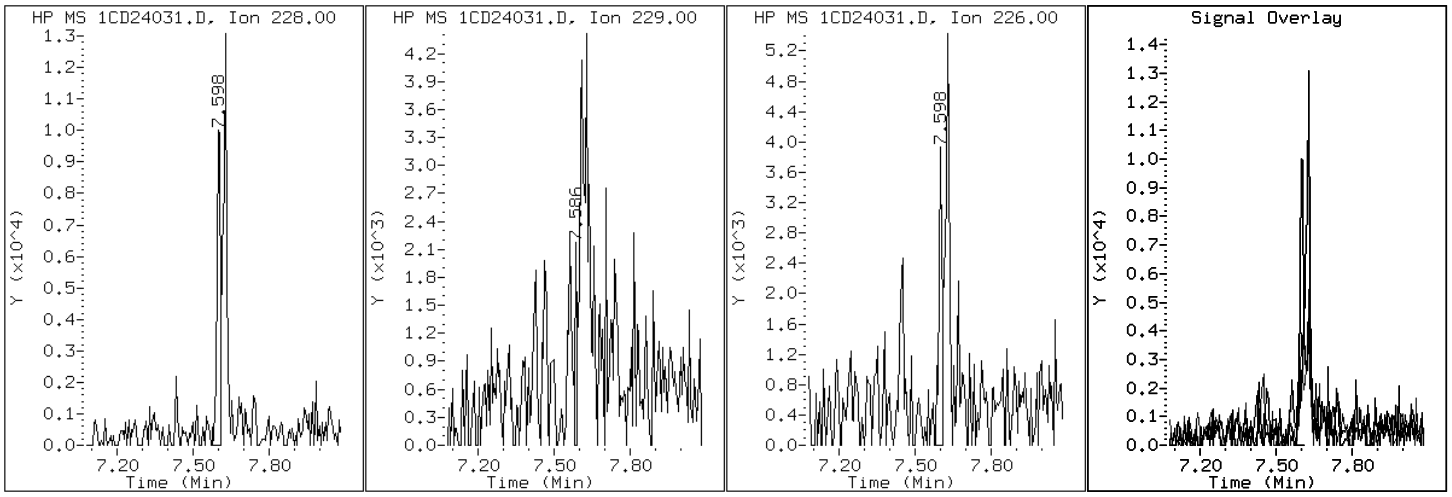
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

17 Benzo(a)anthracene



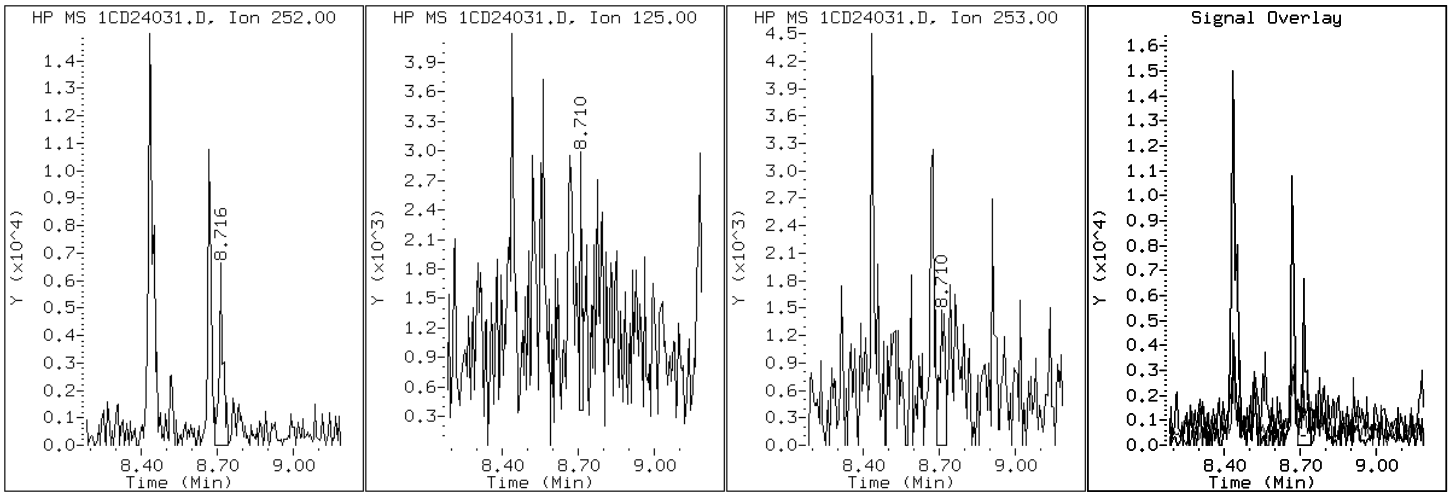
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

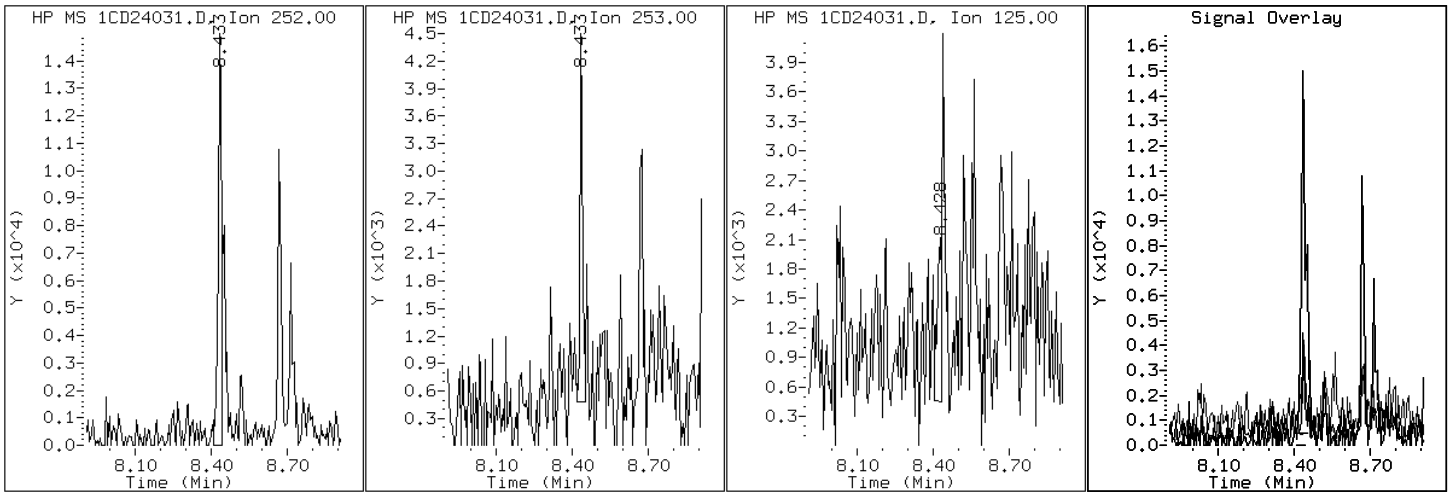
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

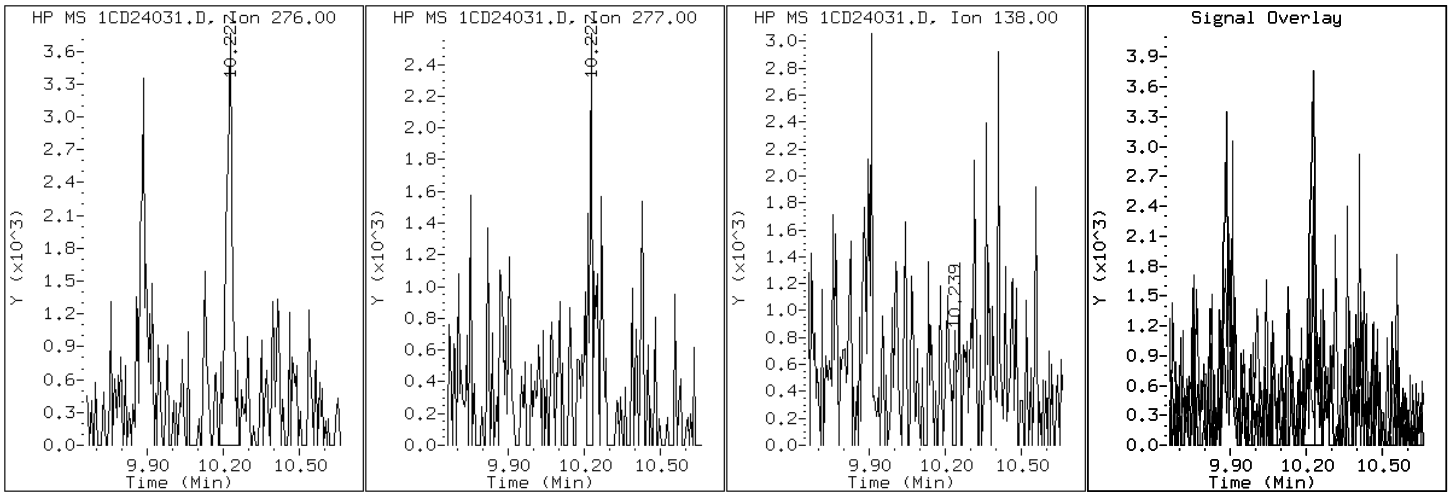
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



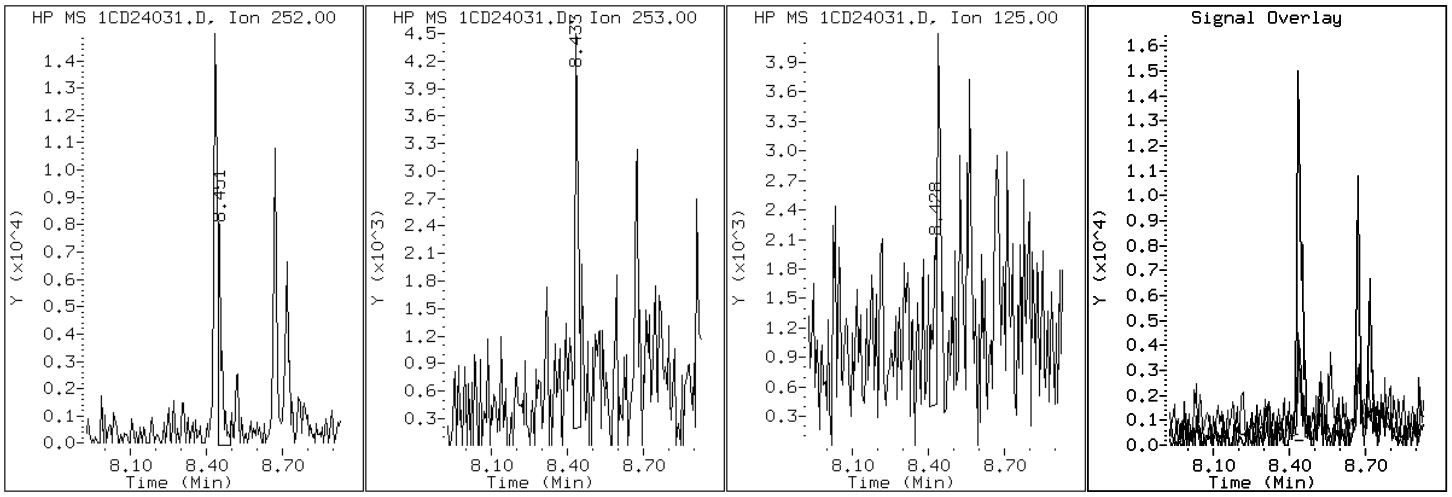
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

21 Benzo(k)fluoranthene



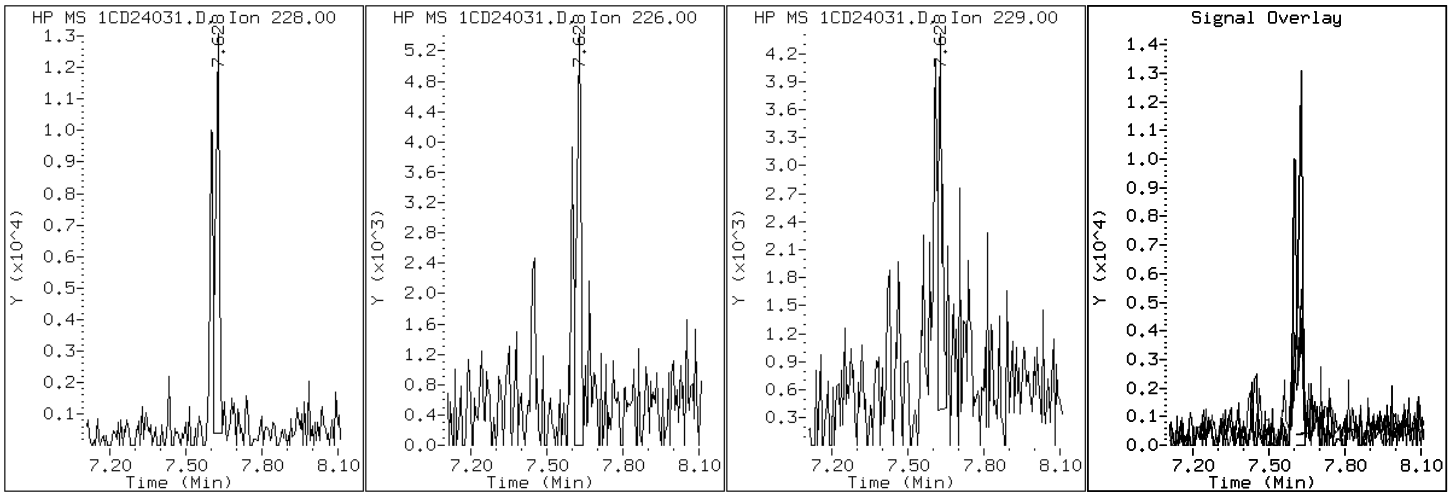
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

19 Chrysene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

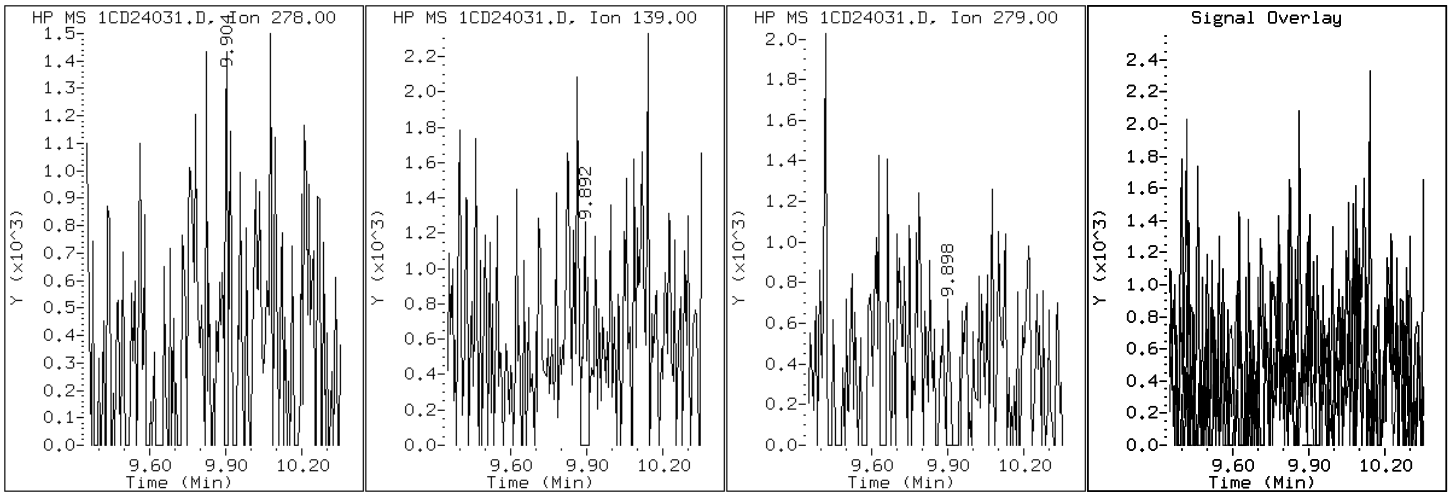
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

25 Dibenzo(a,h)anthracene



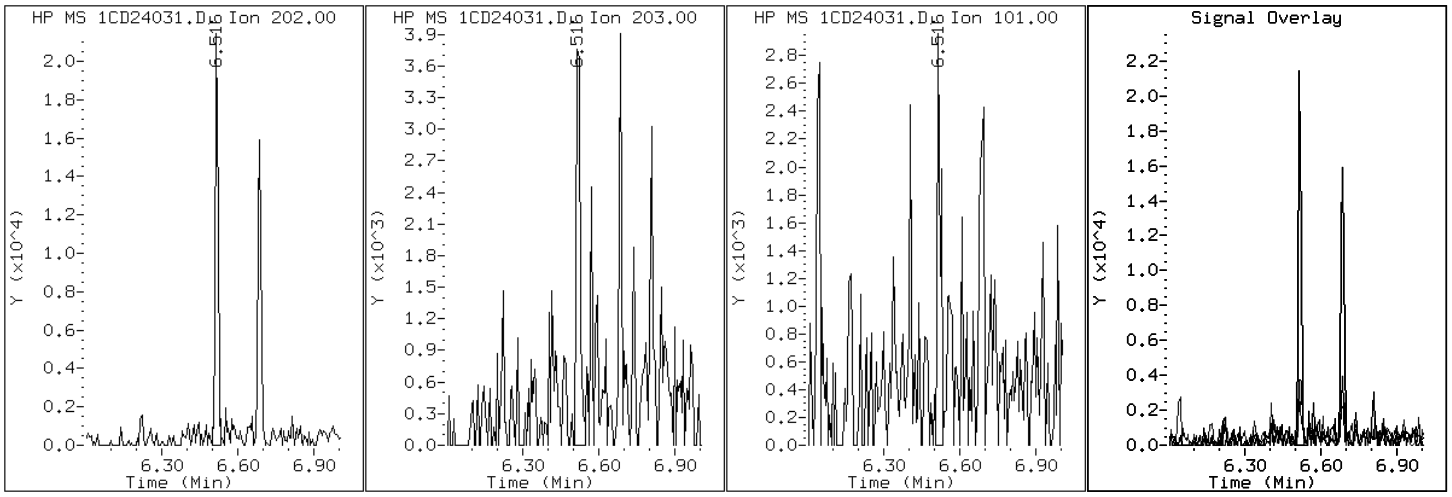
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

15 Fluoranthene



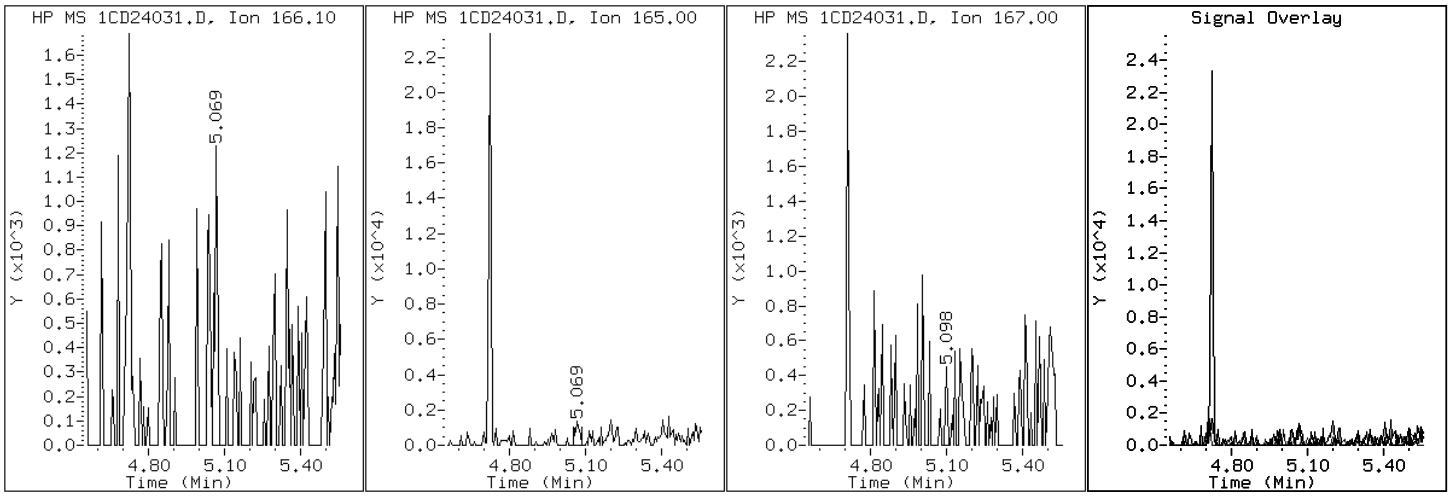
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

9 Fluorene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

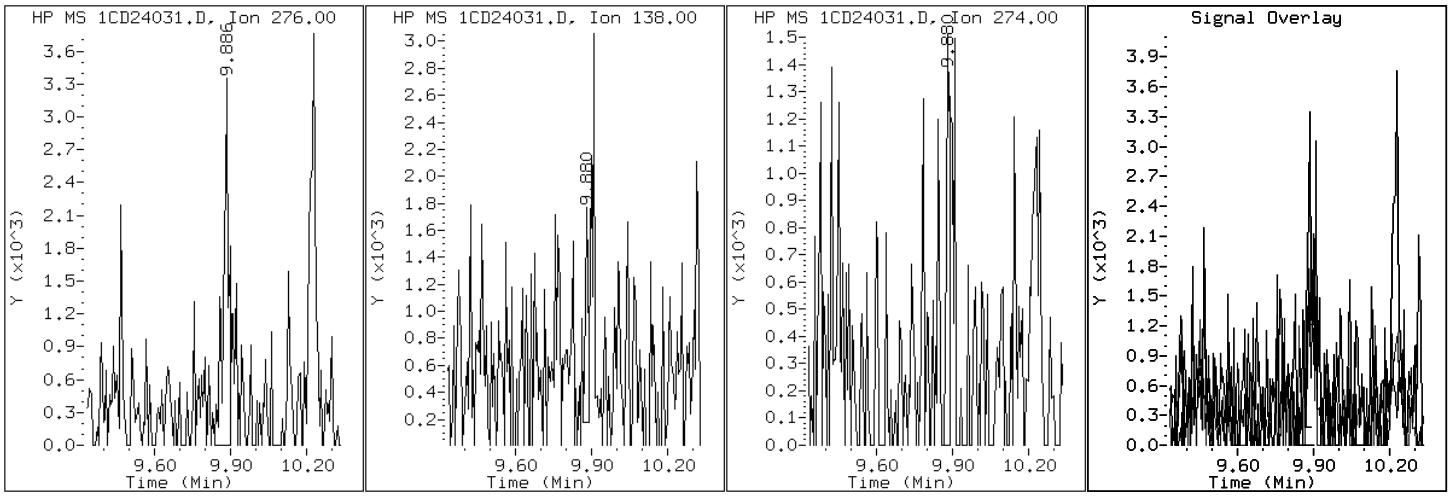
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

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



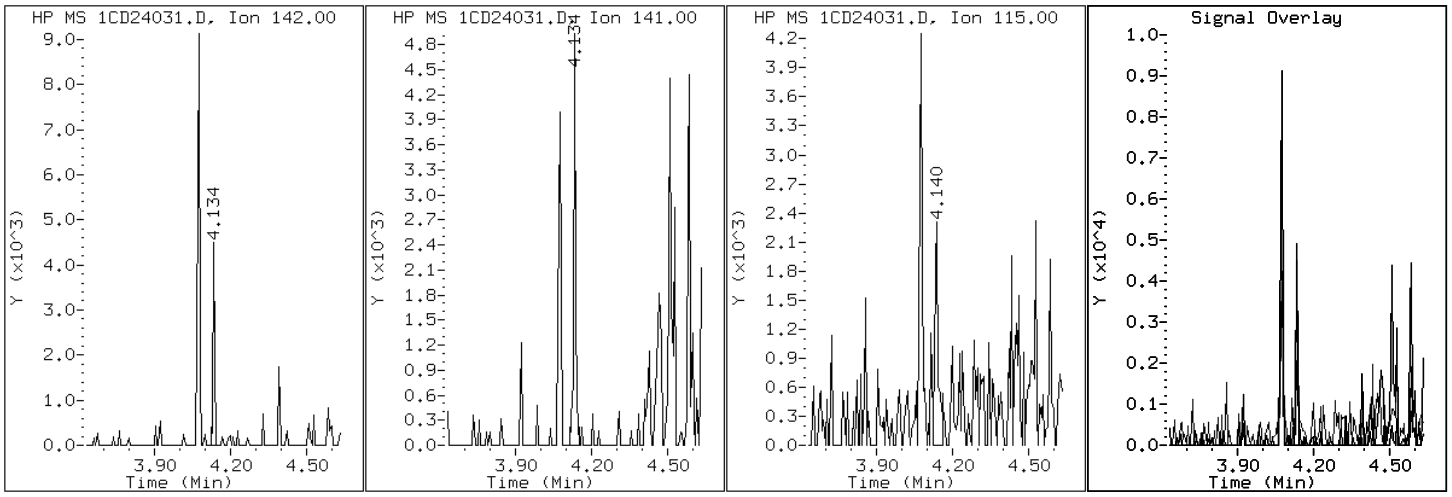
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

4 1-Methylnaphthalene



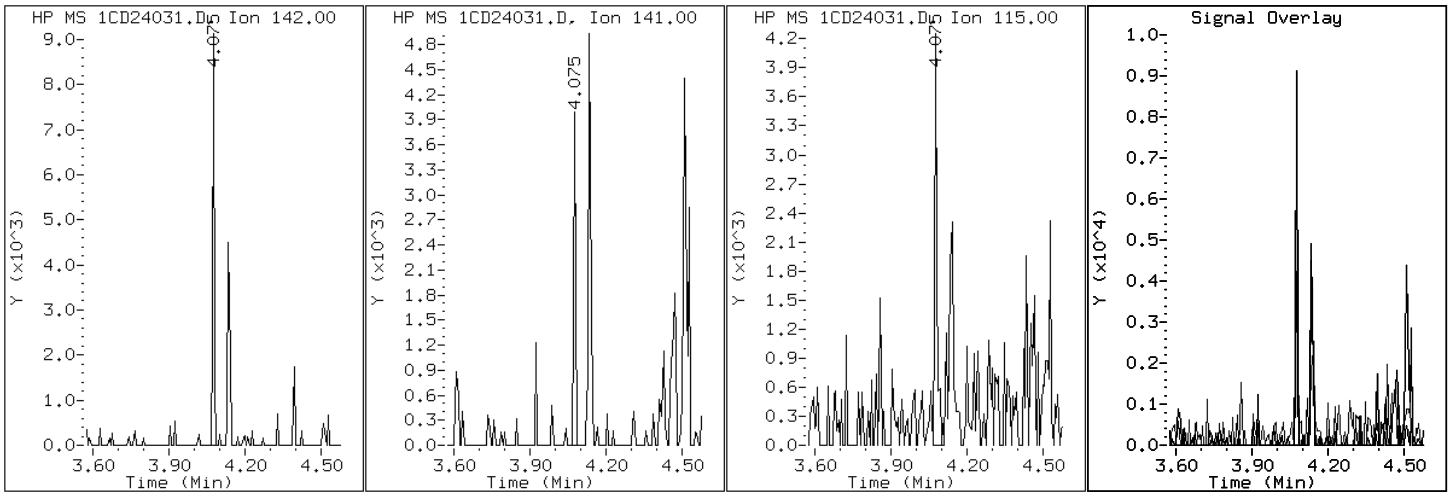
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

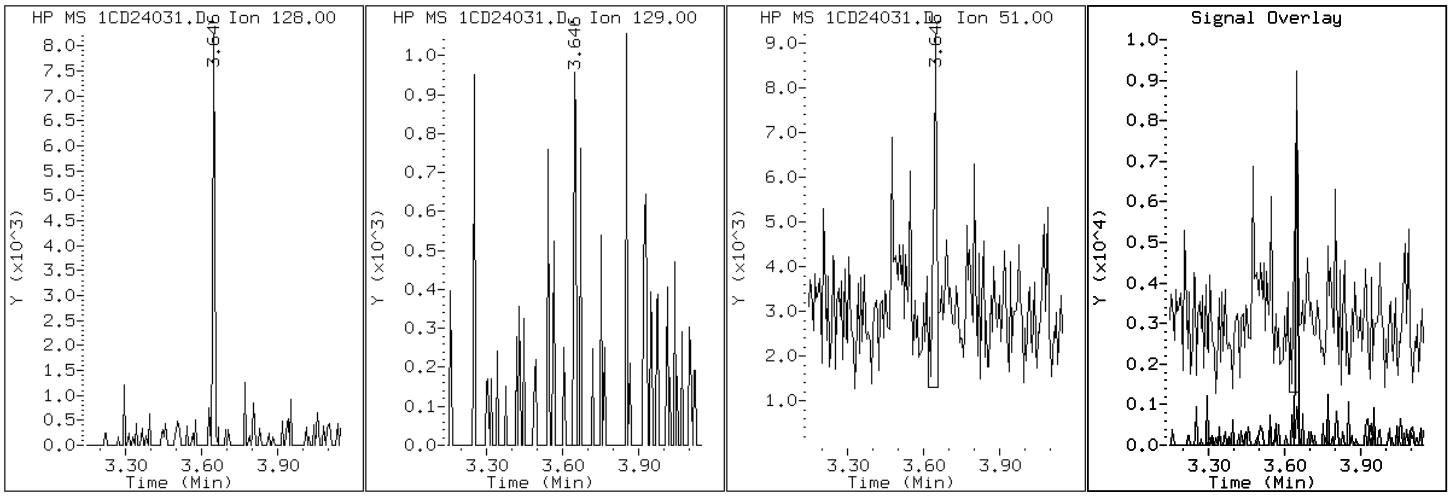
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CD24031.D

Date: 24-APR-2013 21:32

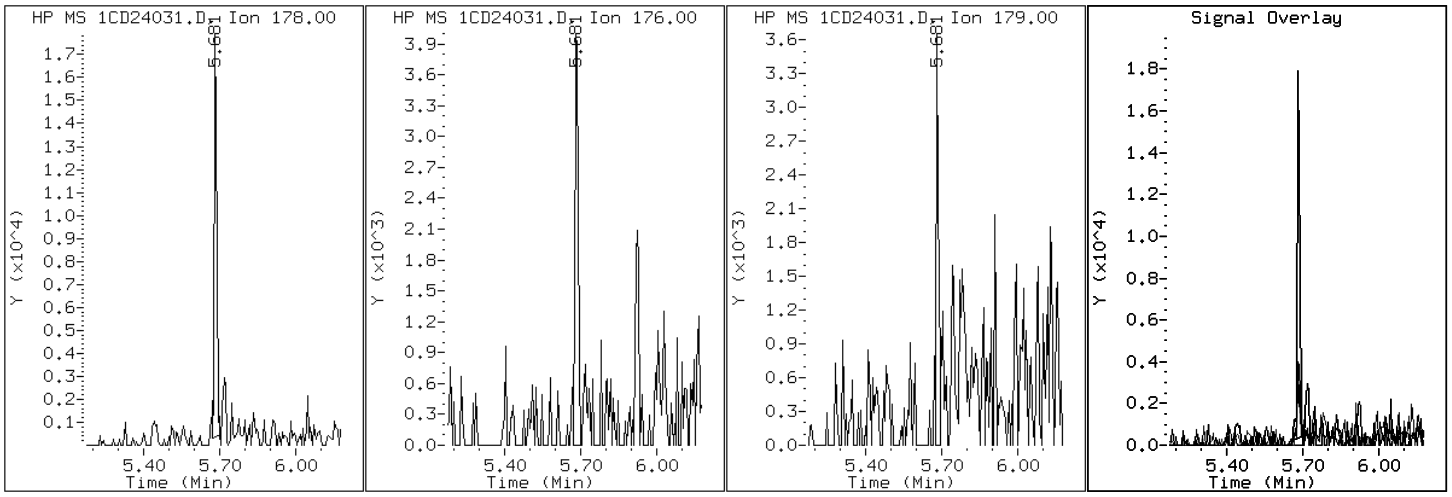
Client ID: CV0788B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a

Operator: SCC

11 Phenanthrene



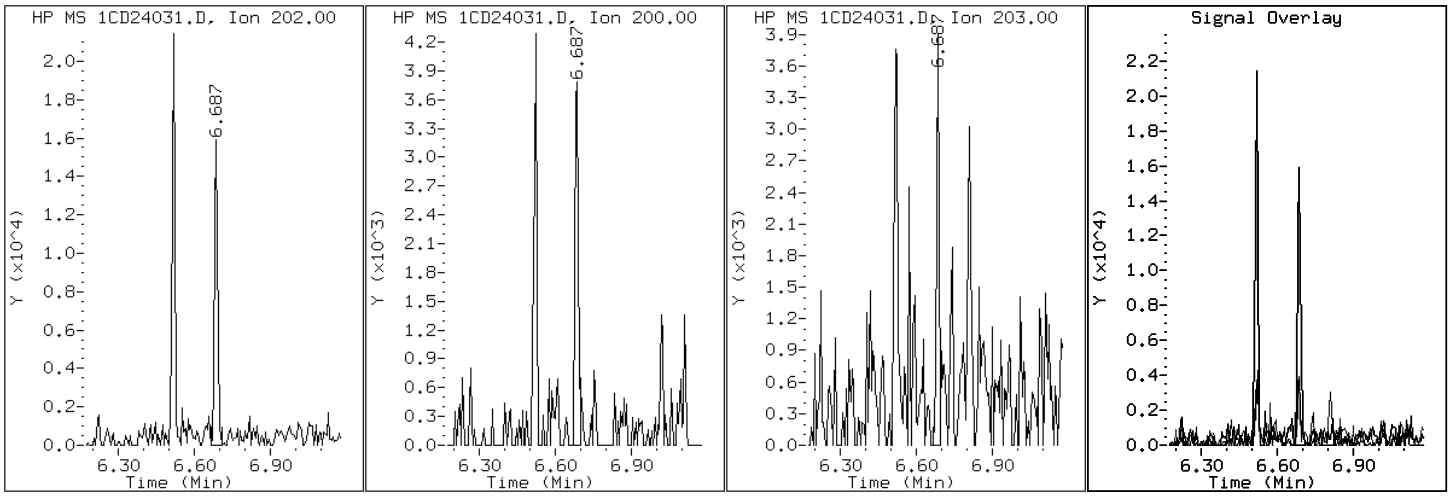
Data File: 1CD24031.D

Date: 24-APR-2013 21:32

Client ID: CV0788B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-11-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24031.D
Inj. Date and Time: 24-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0788B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

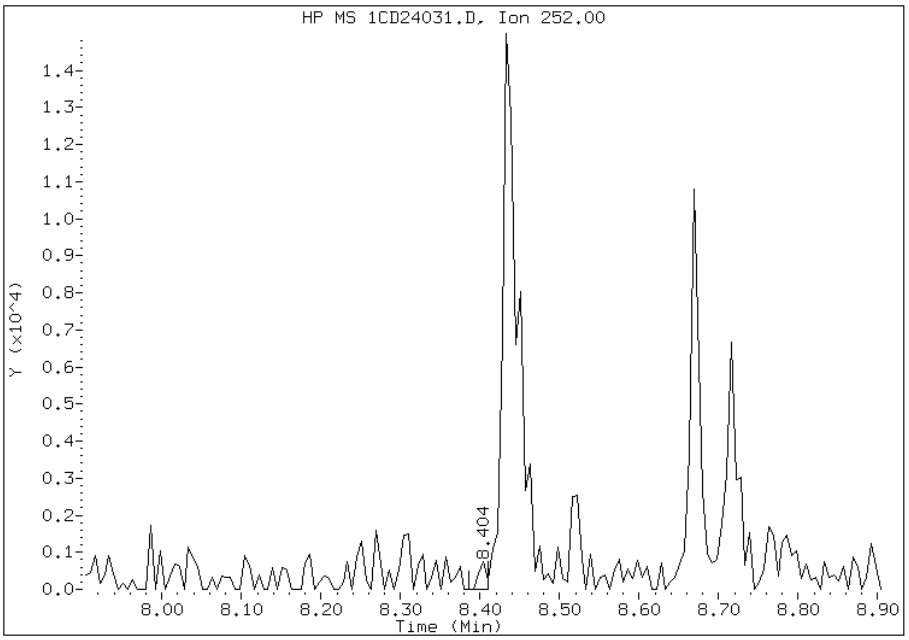
Processing Integration Results

RT: 8.40

Response: 497

Amount: 0

Conc: 7



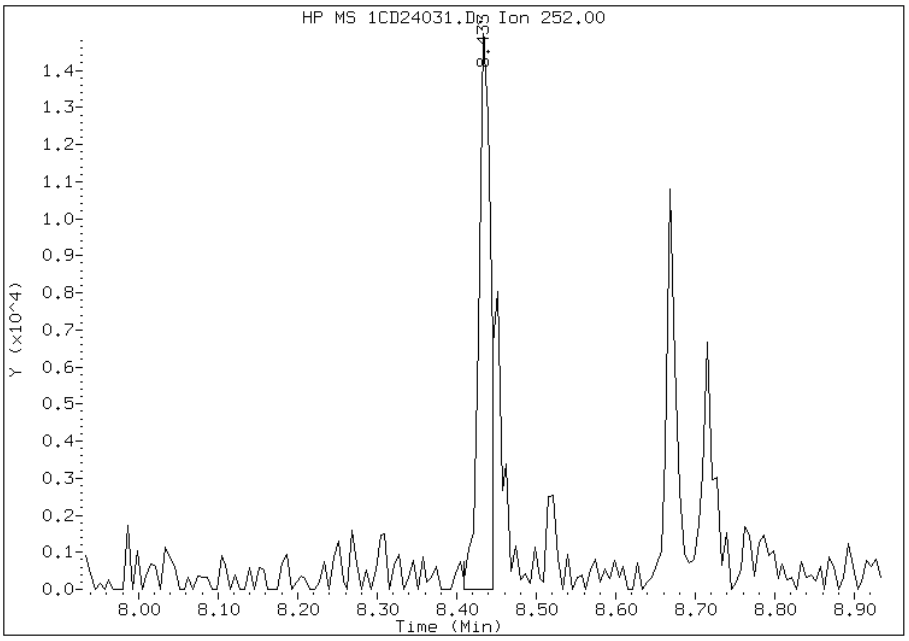
Manual Integration Results

RT: 8.43

Response: 15548

Amount: 3

Conc: 219



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24031.D
Inj. Date and Time: 24-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0788B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

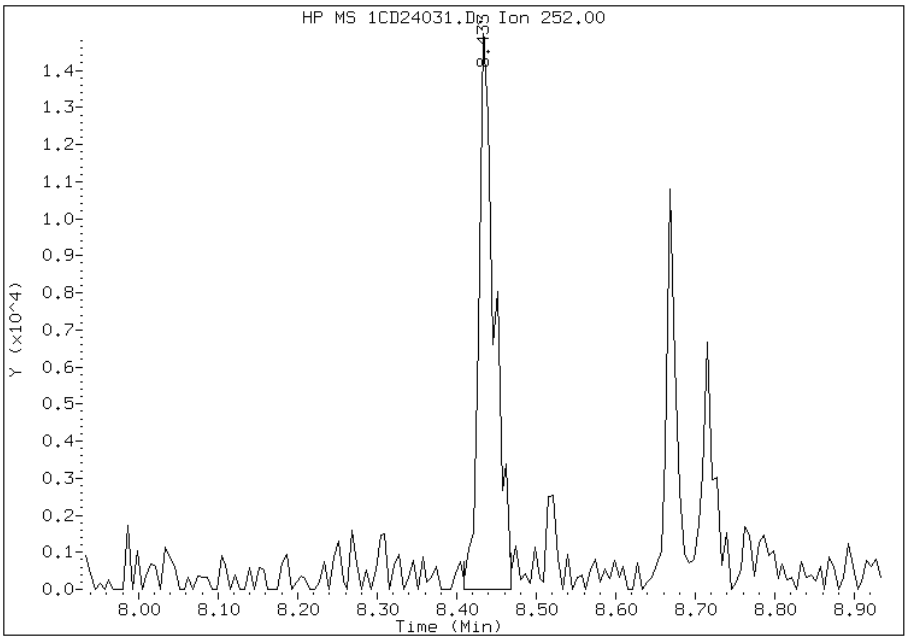
Processing Integration Results

RT: 8.43

Response: 20702

Amount: 4

Conc: 300



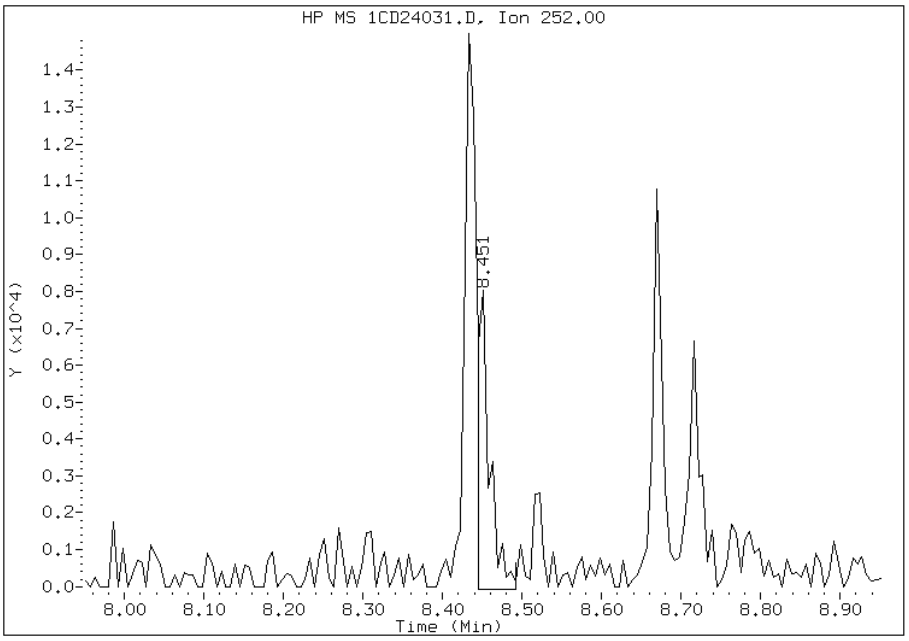
Manual Integration Results

RT: 8.45

Response: 8433

Amount: 1

Conc: 122



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24031.D
Inj. Date and Time: 24-APR-2013 21:32
Instrument ID: BSMC5973.i
Client ID: CV0788B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

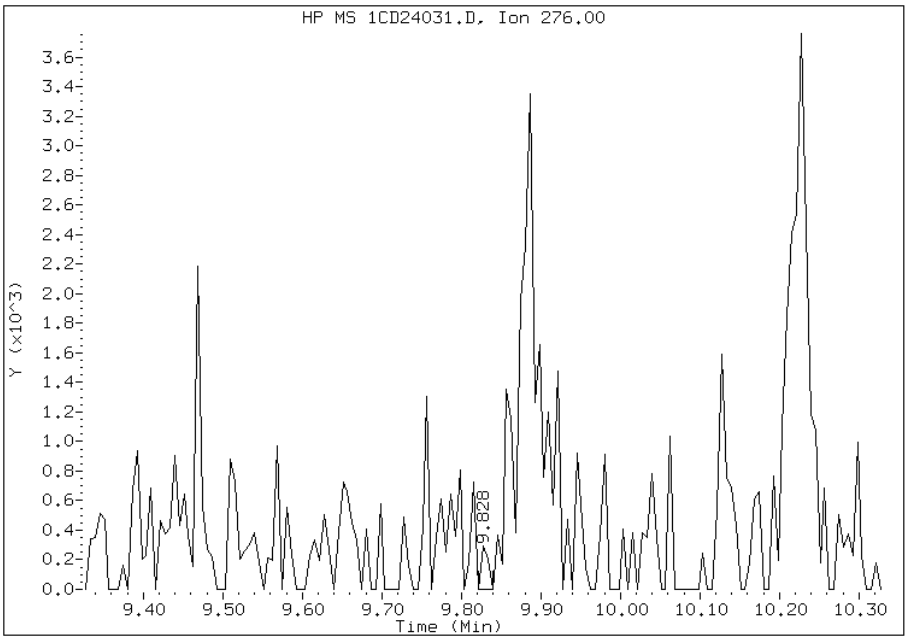
Processing Integration Results

RT: 9.83

Response: 177

Amount: 1

Conc: 54



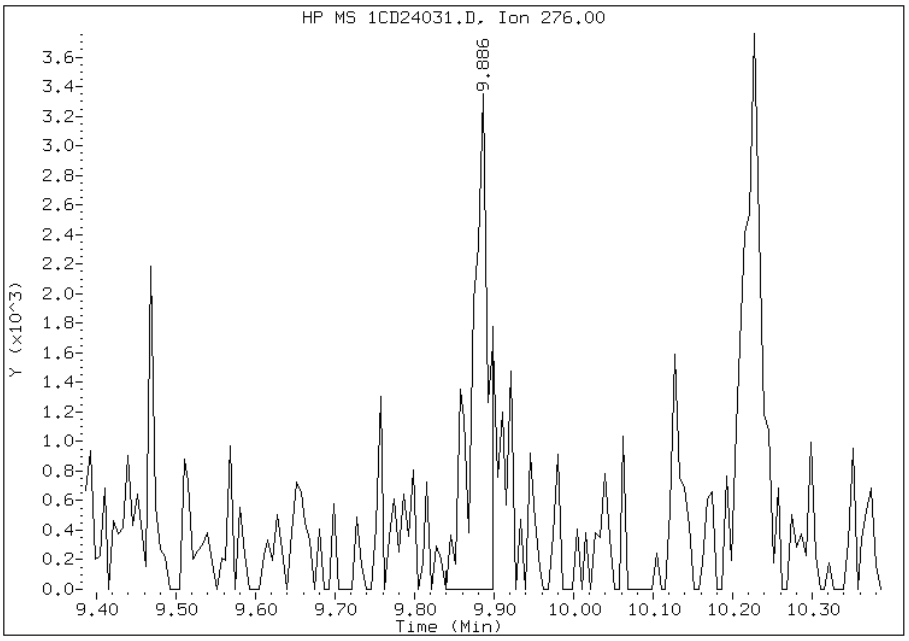
Manual Integration Results

RT: 9.89

Response: 4933

Amount: 1

Conc: 120



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:36
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1150A-CS | Lab Sample ID: 680-89513-12

Matrix: Solid | Lab File ID: 1CD24032.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:30

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.91(g) | Date Analyzed: 04/24/2013 21:51

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	51	U	51	6.4
120-12-7	Anthracene	41		11	5.3
56-55-3	Benzo[a]anthracene	140		10	5.0
50-32-8	Benzo[a]pyrene	120		13	6.6
205-99-2	Benzo[b]fluoranthene	190		16	7.8
191-24-2	Benzo[g,h,i]perylene	110		25	5.6
207-08-9	Benzo[k]fluoranthene	76		10	4.6
218-01-9	Chrysene	150		11	5.7
53-70-3	Dibenz(a,h)anthracene	36		25	5.2
206-44-0	Fluoranthene	190		25	5.1
86-73-7	Fluorene	16	J	25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	140		25	9.0
90-12-0	1-Methylnaphthalene	36	J	51	5.6
91-57-6	2-Methylnaphthalene	100		51	9.0
91-20-3	Naphthalene	52		51	5.6
85-01-8	Phenanthrene	150		10	5.0
129-00-0	Pyrene	190		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24032.D
Lab Smp Id: 680-89513-A-12-A Client Smp ID: CV1150A-CS
Inj Date : 24-APR-2013 21:51
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-12-a
Misc Info : 680-89513-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 28
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	20.890	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	155481	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	105751	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	211089	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	20869	6.80929	577.2863
* 18 Chrysene-d12	240	7.609	7.592	(1.000)	217863	40.0000	
* 23 Perylene-d12	264	8.774	8.733	(1.000)	199781	40.0000	(H)
2 Naphthalene	128	3.645	3.646	(1.003)	2424	0.61213	51.8958(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	1762	1.18623	100.5679
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	840	0.42555	36.0774(Q)
9 Fluorene	166	5.062	5.057	(1.072)	706	0.19193	16.2712(Q)
11 Phenanthrene	178	5.686	5.675	(1.003)	9891	1.71134	145.0860
12 Anthracene	178	5.715	5.710	(1.008)	2154	0.48114	40.7903
13 Carbazole	167	5.827	5.822	(1.028)	1272	0.21896	18.5629(Q)
15 Fluoranthene	202	6.515	6.504	(1.149)	15772	2.23464	189.4514

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.686	6.675	(0.879)	14700	2.28465	193.6909
17 Benzo(a)anthracene	228	7.603	7.581	(0.999)	9799	1.66213	140.9143
19 Chrysene	228	7.633	7.610	(1.003)	11123	1.78792	151.5784
20 Benzo(b)fluoranthene	252	8.439	8.410	(0.962)	12278	2.22213	188.3906(MH)
21 Benzo(k)fluoranthene	252	8.456	8.428	(0.964)	4797	0.89227	75.6463(QM)
22 Benzo(a)pyrene	252	8.715	8.686	(0.993)	6280	1.36713	115.9044(H)
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.833	(1.127)	5665	1.63813	138.8798(M)
25 Dibenzo(a,h)anthracene	278	9.915	9.851	(1.130)	2029	0.41883	35.5083(QMH)
26 Benzo(g,h,i)perylene	276	10.227	10.163	(1.166)	6580	1.30441	110.5872(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: 1CD24032.D

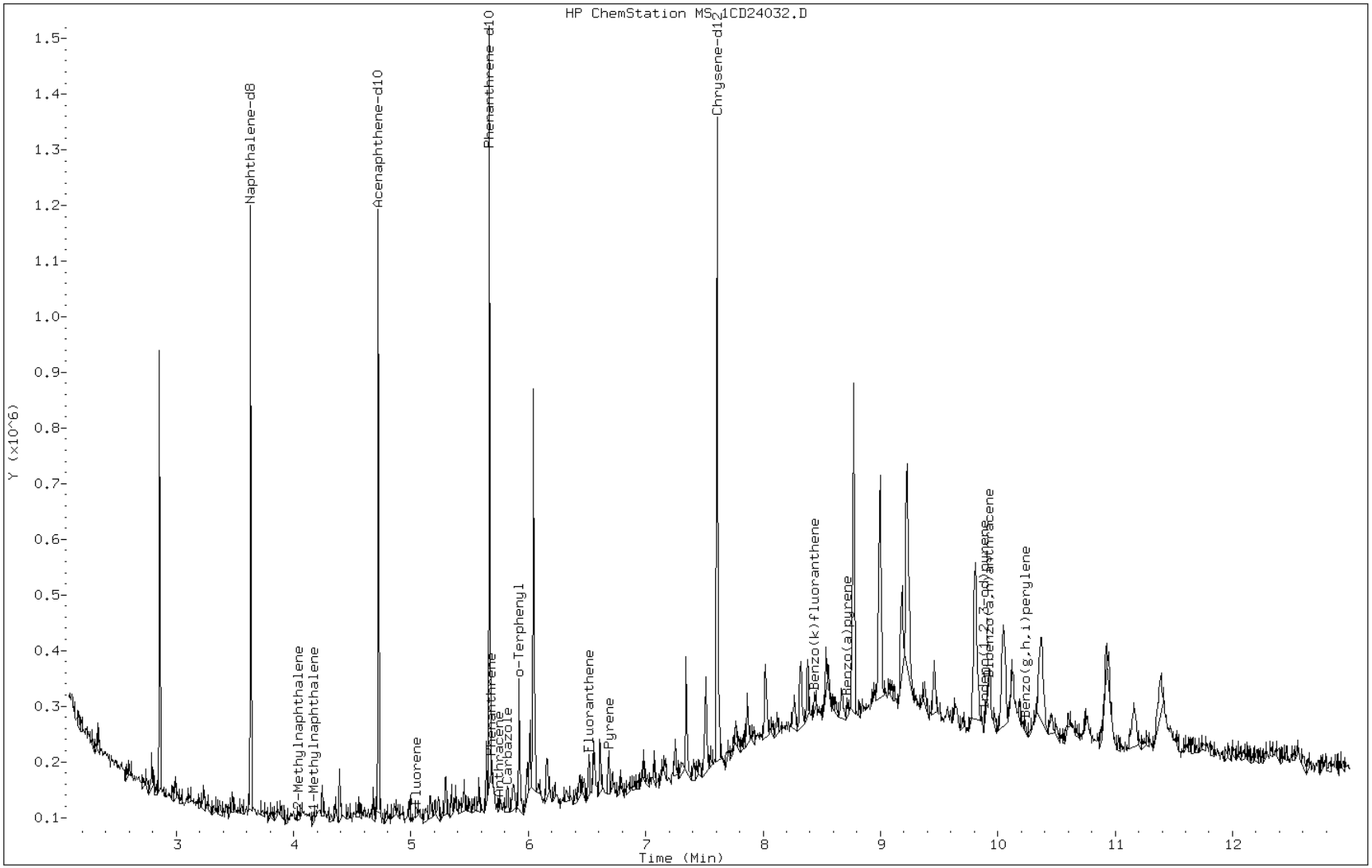
Date: 24-APR-2013 21:51

Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

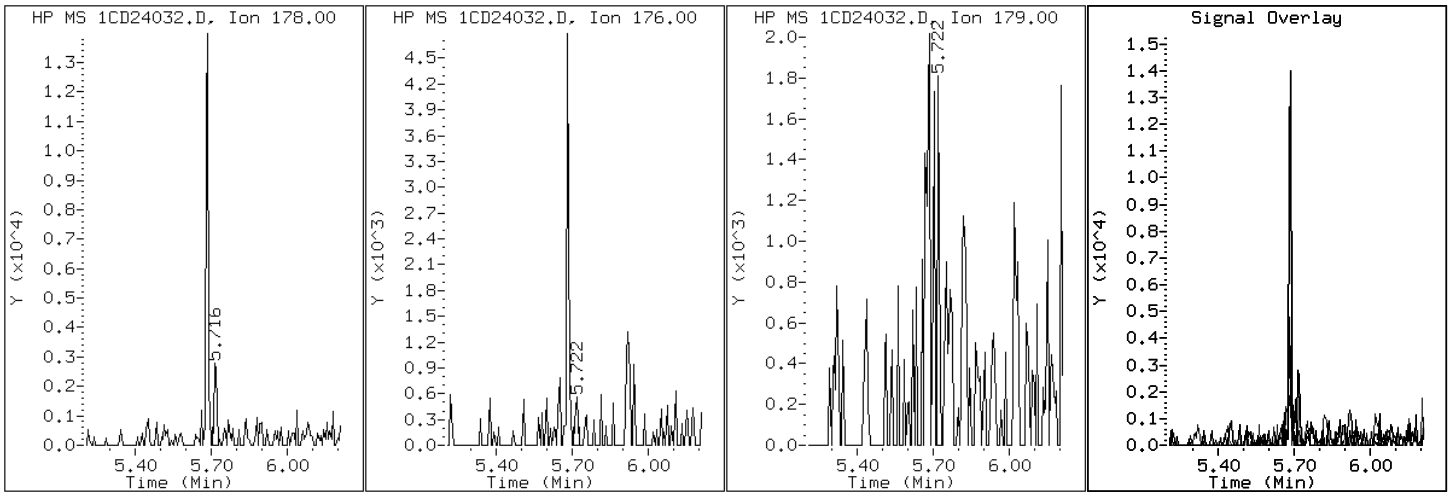
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

12 Anthracene



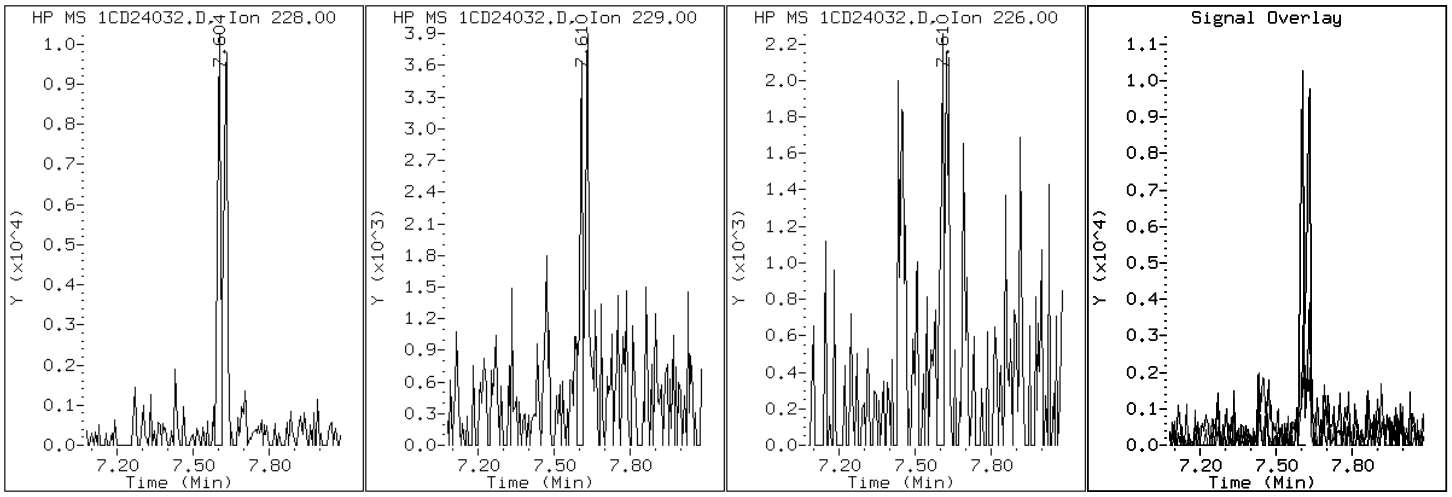
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

17 Benzo(a)anthracene



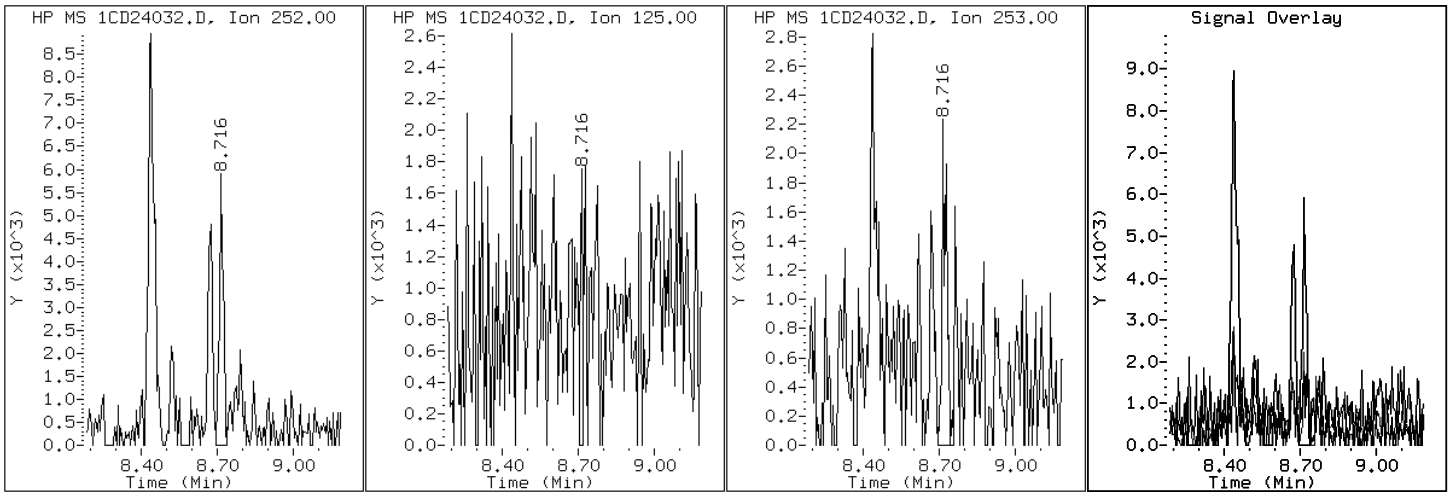
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

22 Benzo(a)pyrene



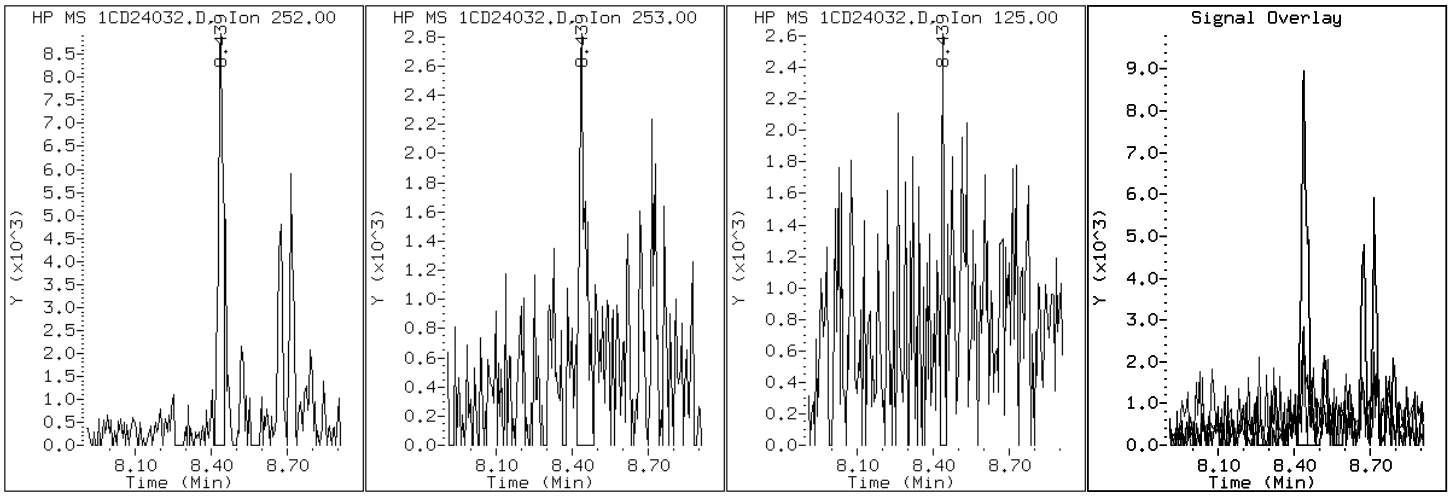
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



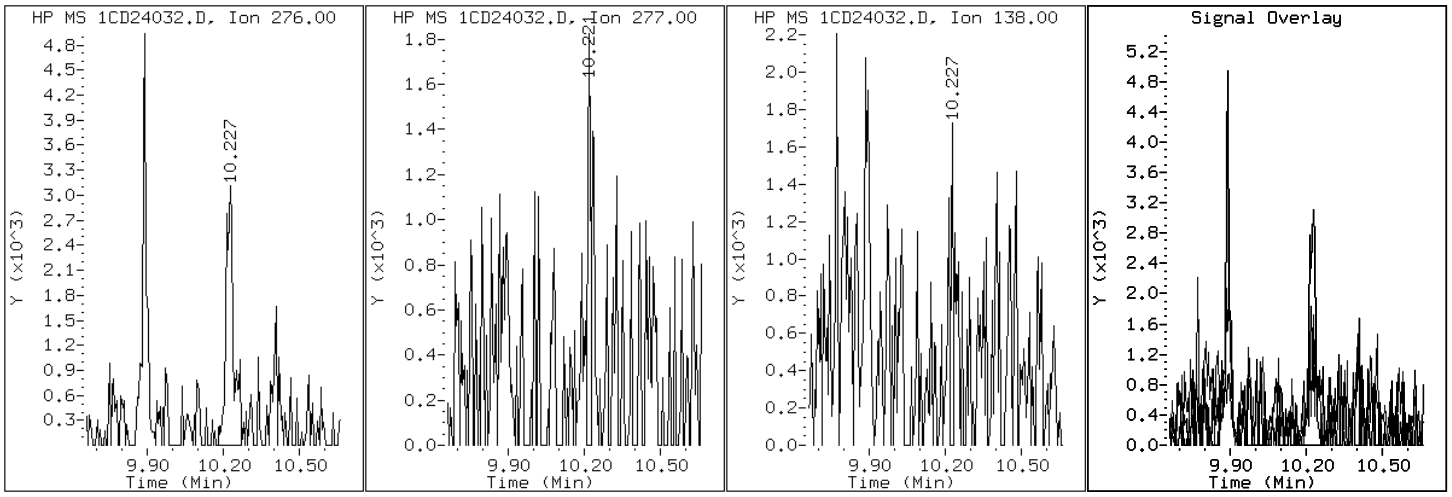
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



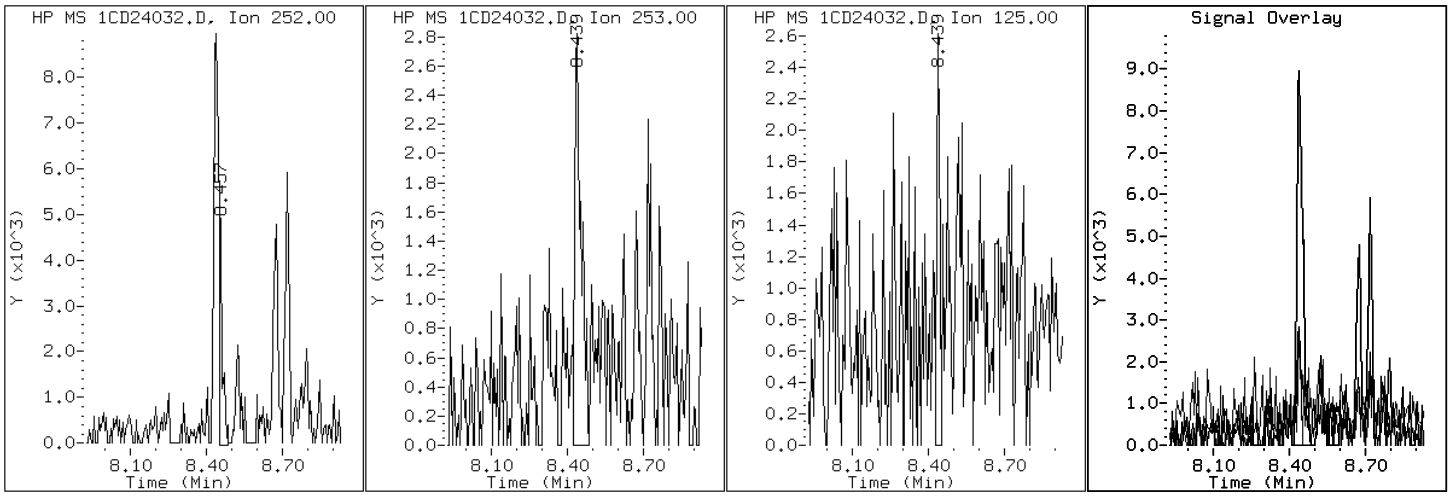
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

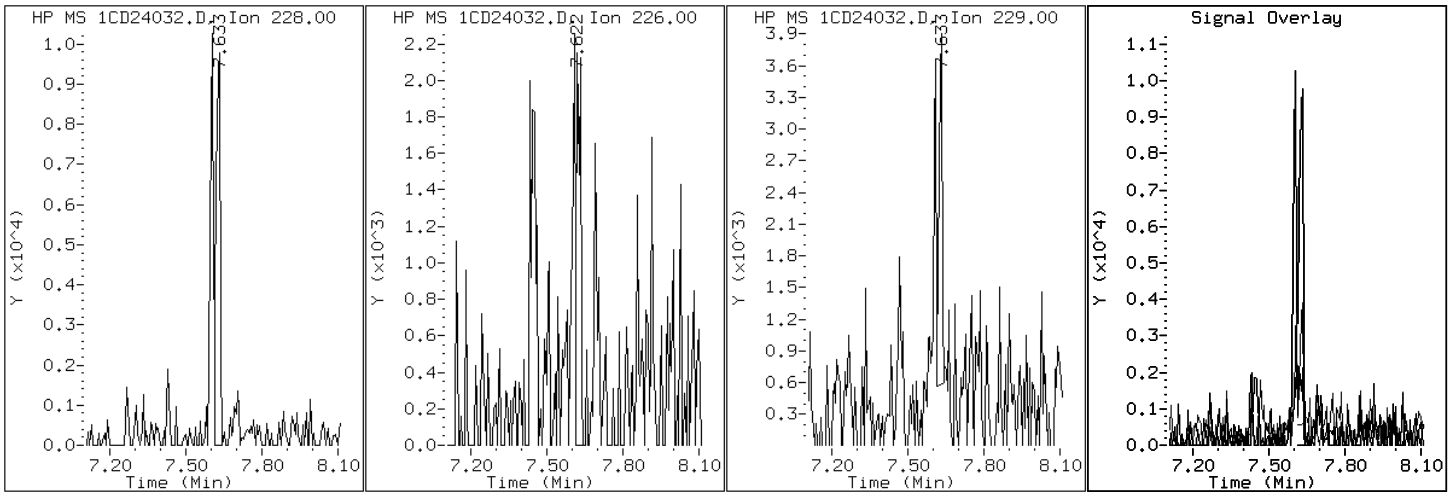
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

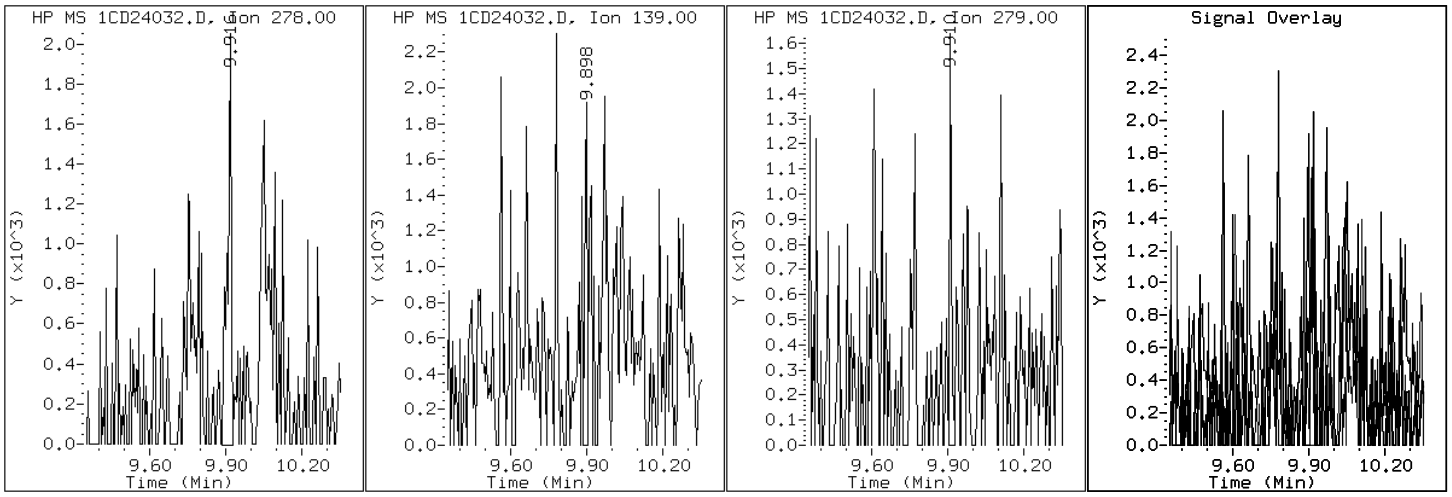
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

25 Dibenzo(a,h)anthracene



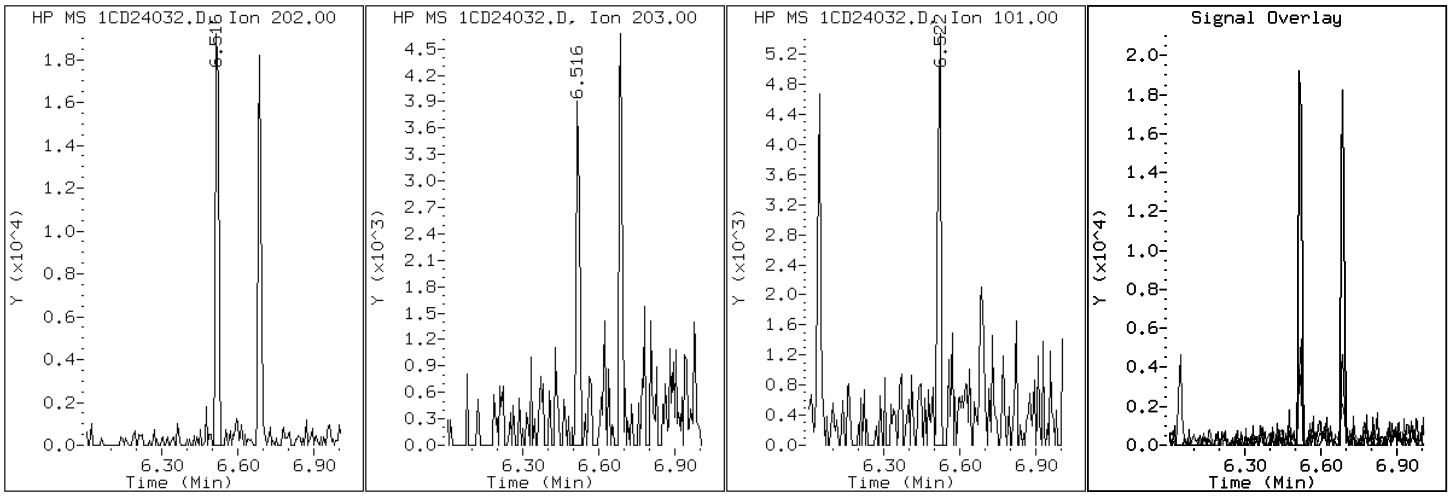
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

15 Fluoranthene



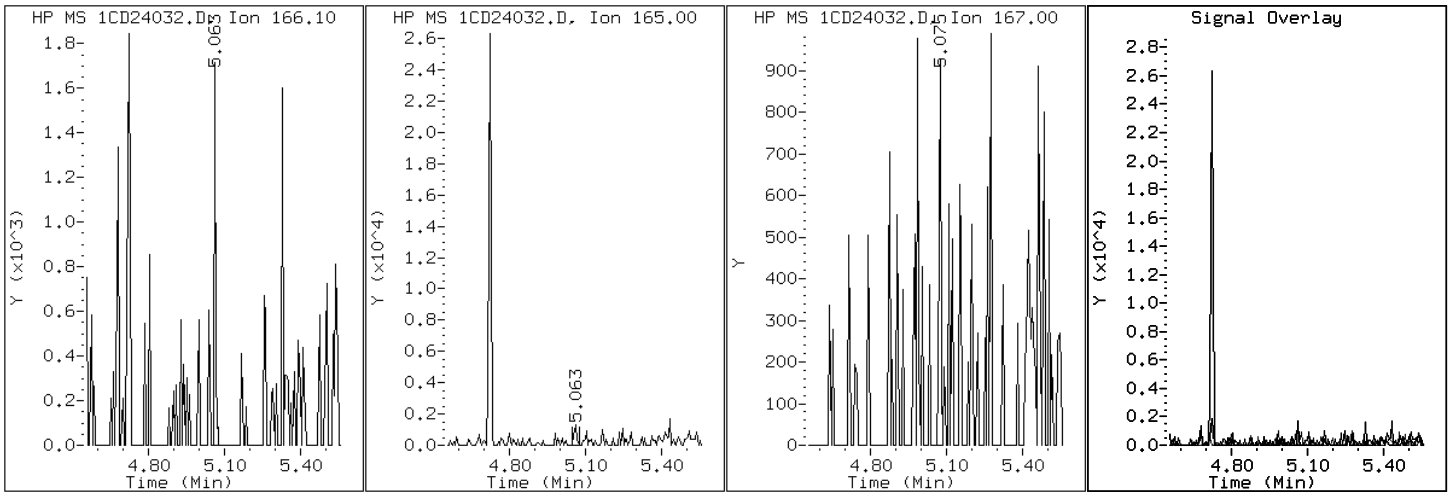
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

9 Fluorene



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

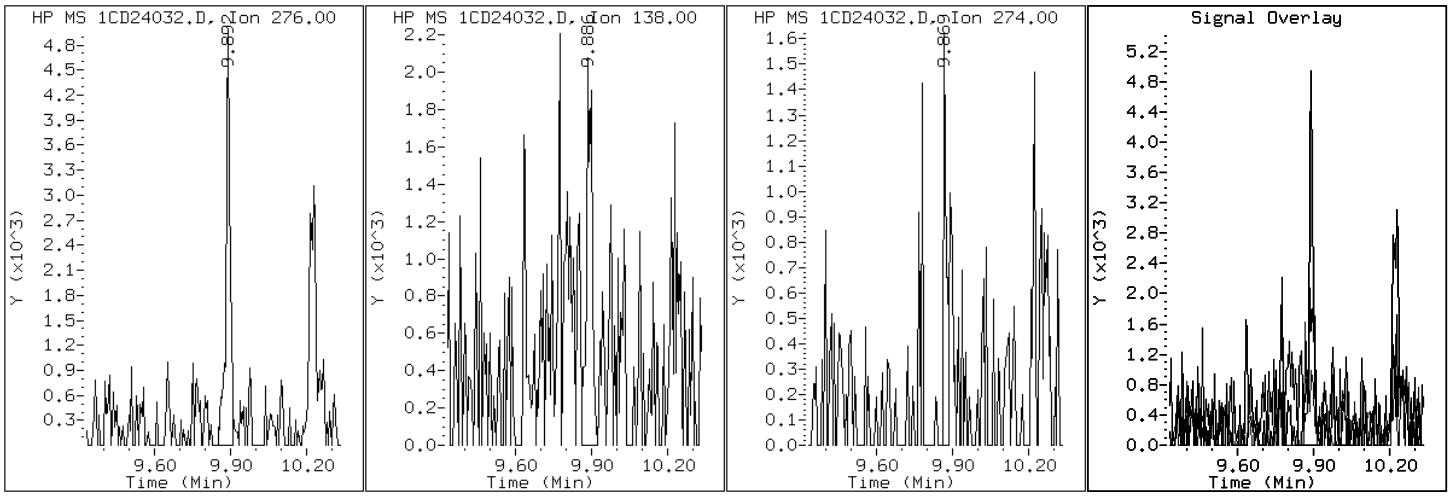
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

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



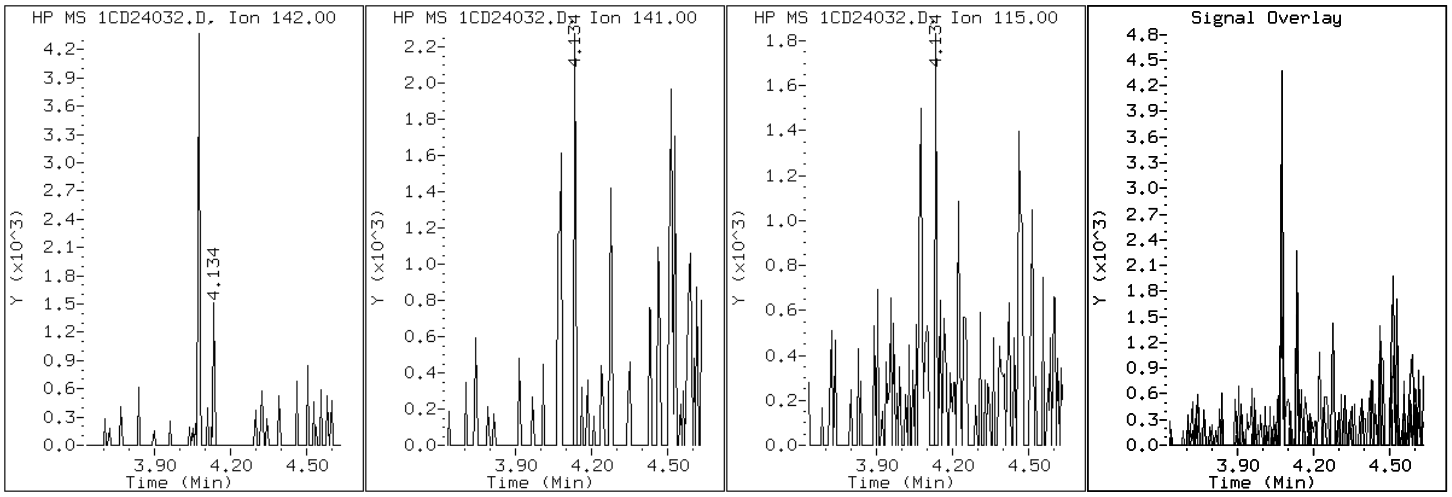
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

4 1-Methylnaphthalene



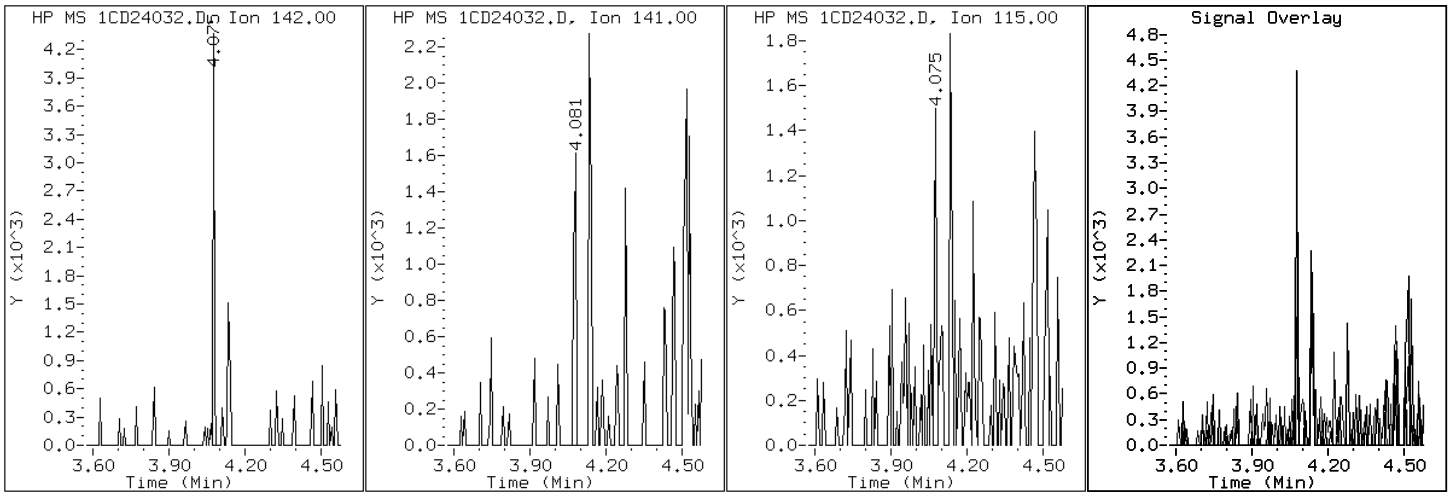
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

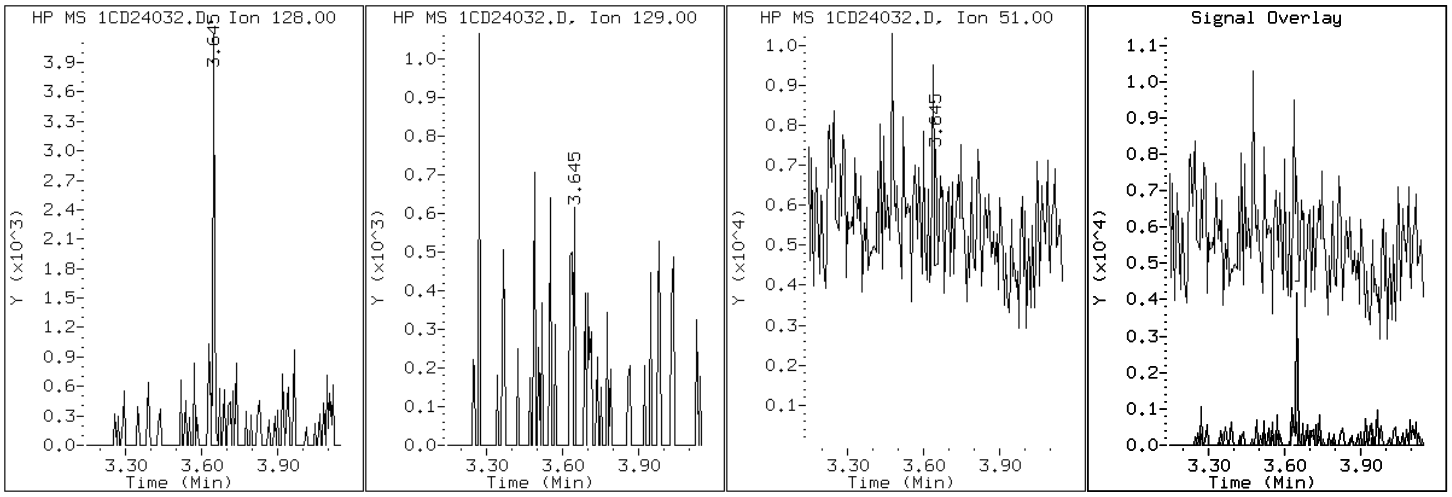
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CD24032.D

Date: 24-APR-2013 21:51

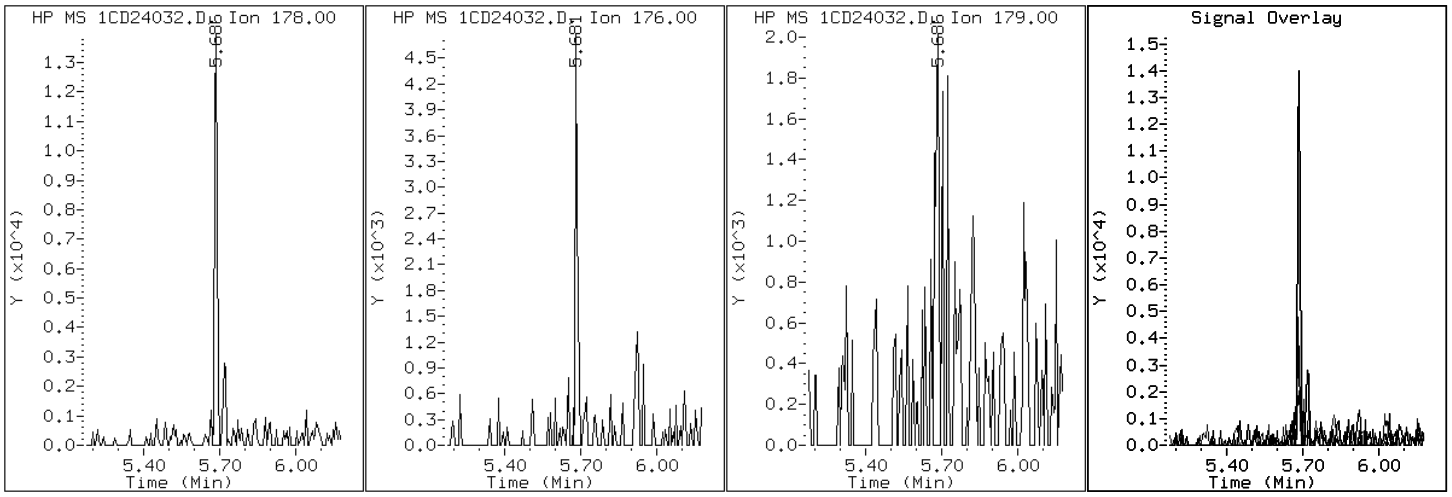
Client ID: CV1150A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a

Operator: SCC

11 Phenanthrene



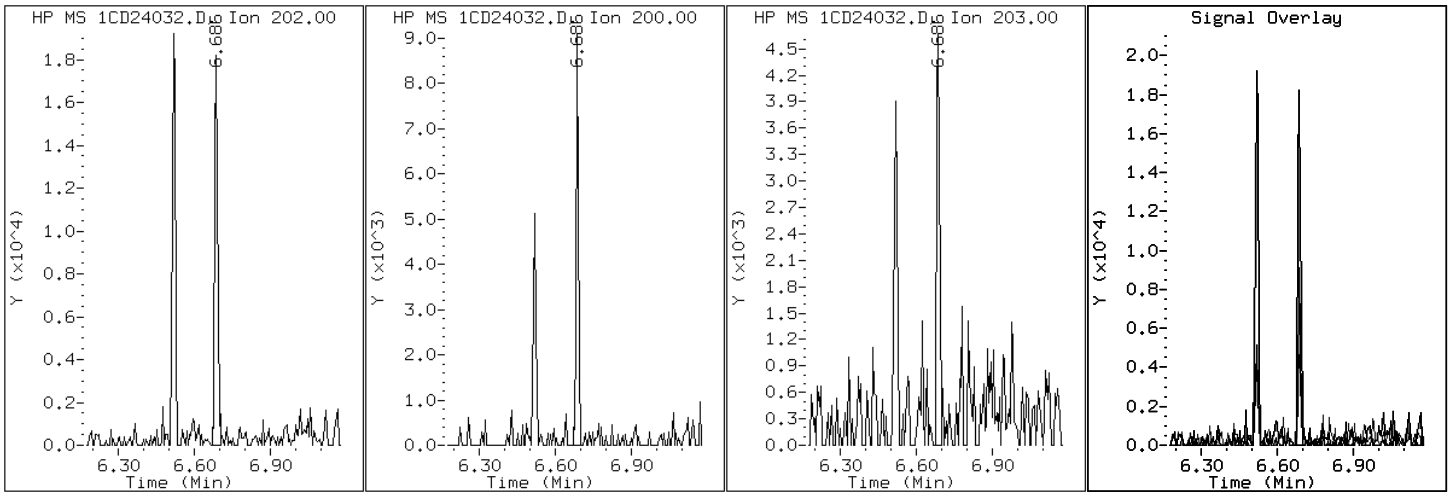
Data File: 1CD24032.D

Date: 24-APR-2013 21:51

Client ID: CV1150A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24032.D
Inj. Date and Time: 24-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV1150A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

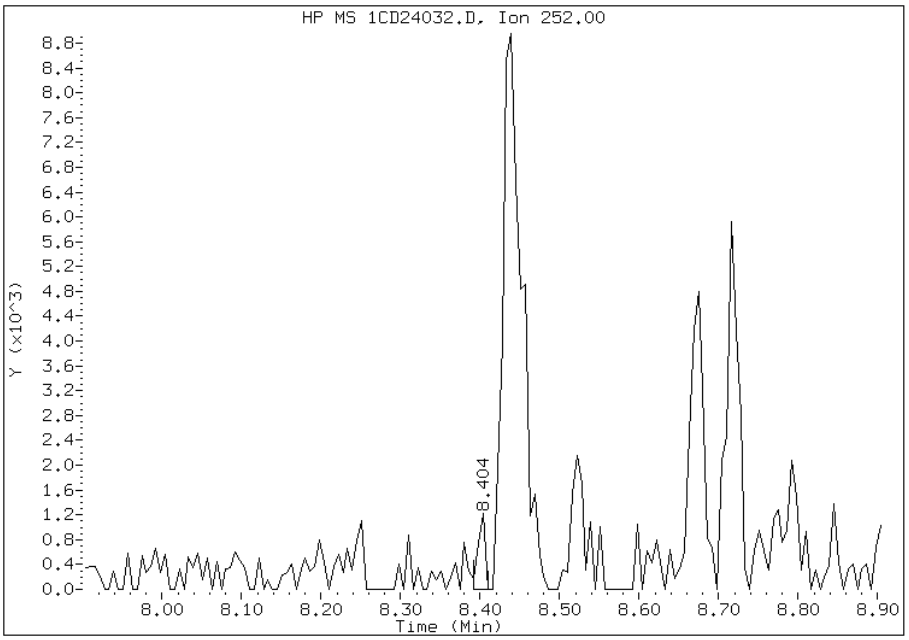
Processing Integration Results

RT: 8.40

Response: 747

Amount: 0

Conc: 11



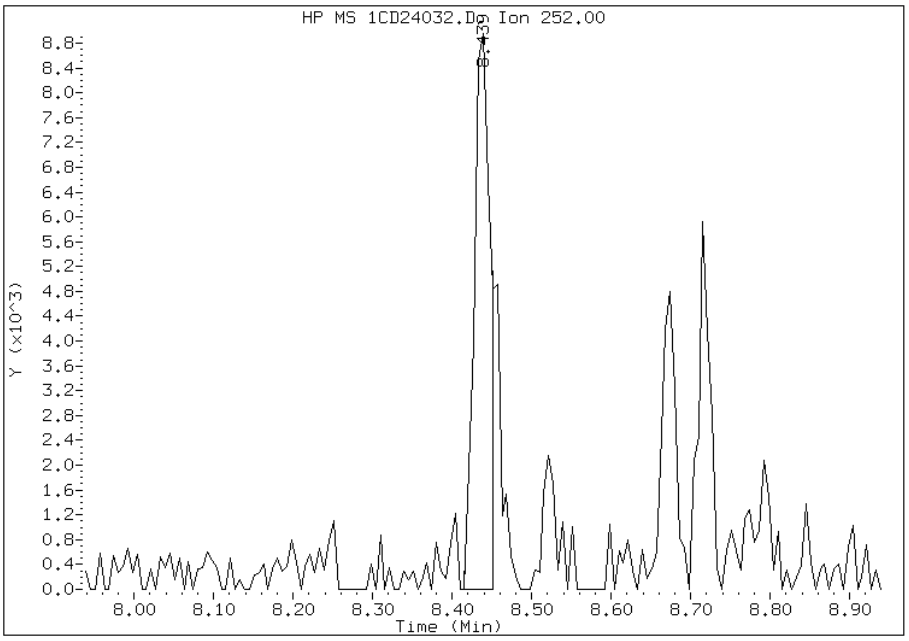
Manual Integration Results

RT: 8.44

Response: 12278

Amount: 2

Conc: 188



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24032.D
Inj. Date and Time: 24-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV1150A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

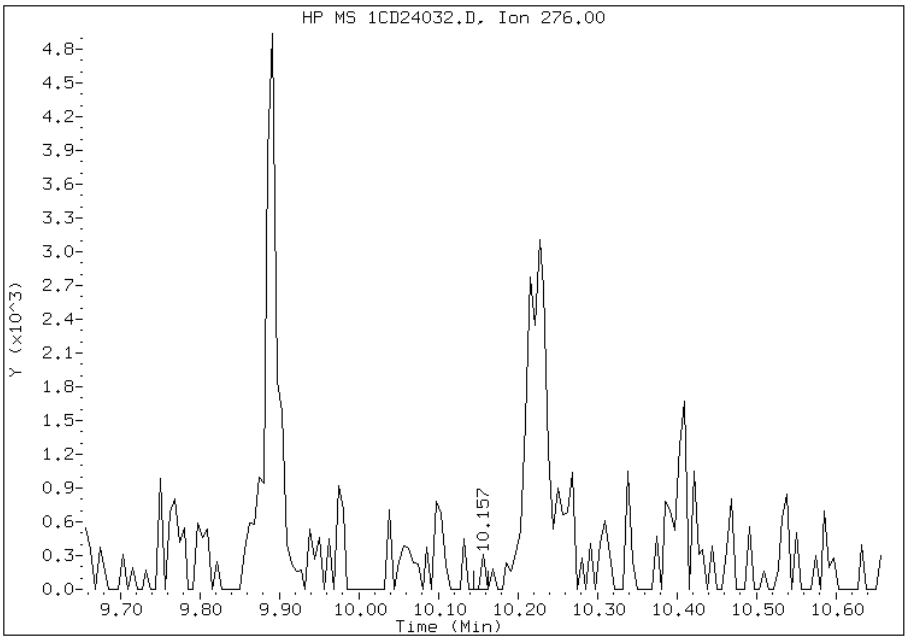
Processing Integration Results

RT: 10.16

Response: 108

Amount: 0

Conc: 2



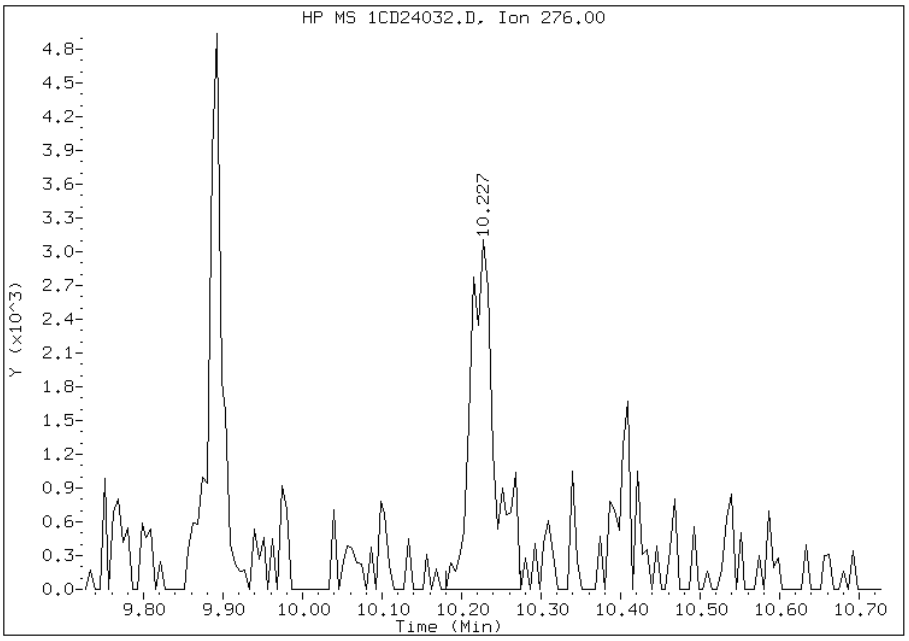
Manual Integration Results

RT: 10.23

Response: 6580

Amount: 1

Conc: 111



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24032.D
Inj. Date and Time: 24-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV1150A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

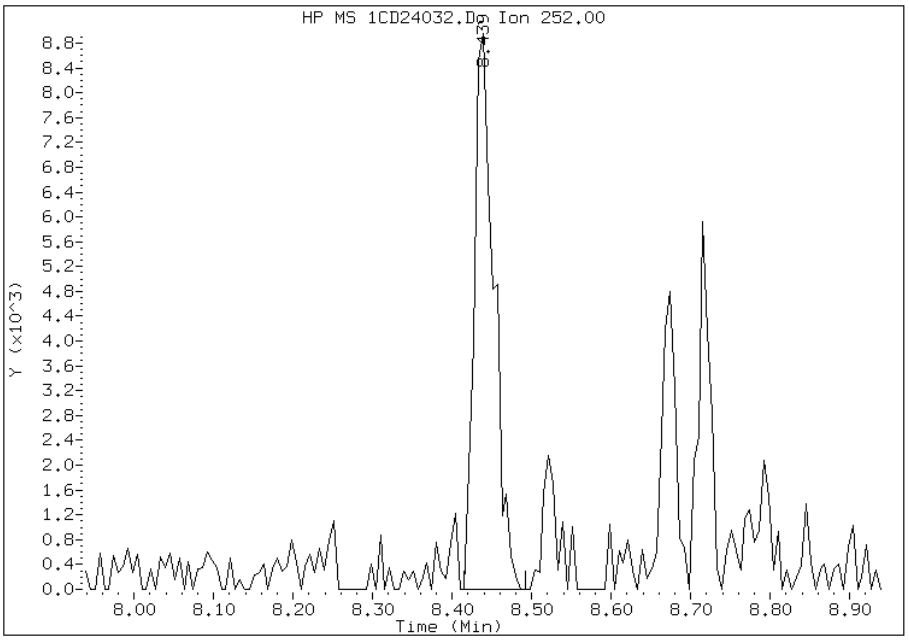
Processing Integration Results

RT: 8.44

Response: 15241

Amount: 3

Conc: 240



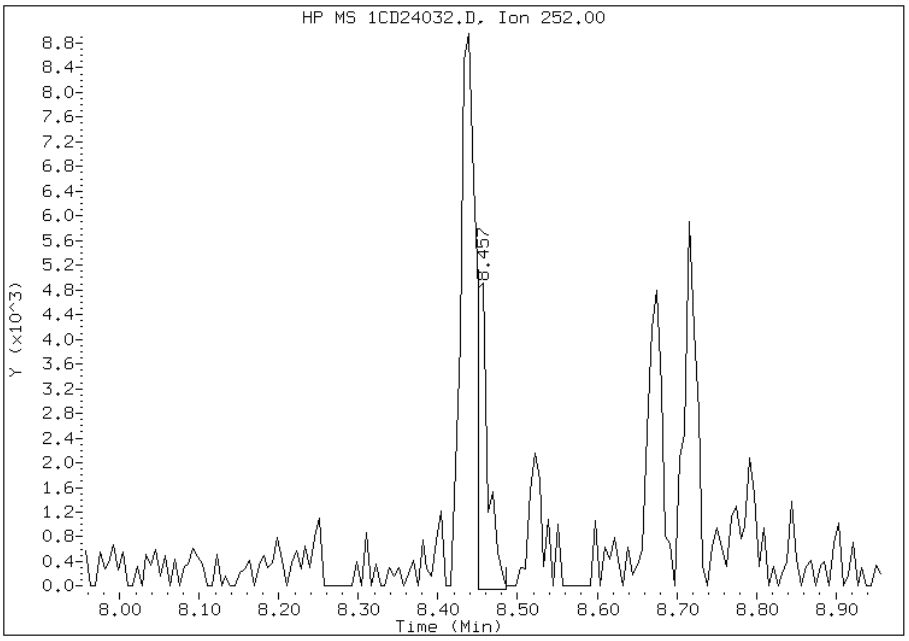
Manual Integration Results

RT: 8.46

Response: 4797

Amount: 1

Conc: 76



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24032.D
Inj. Date and Time: 24-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV1150A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

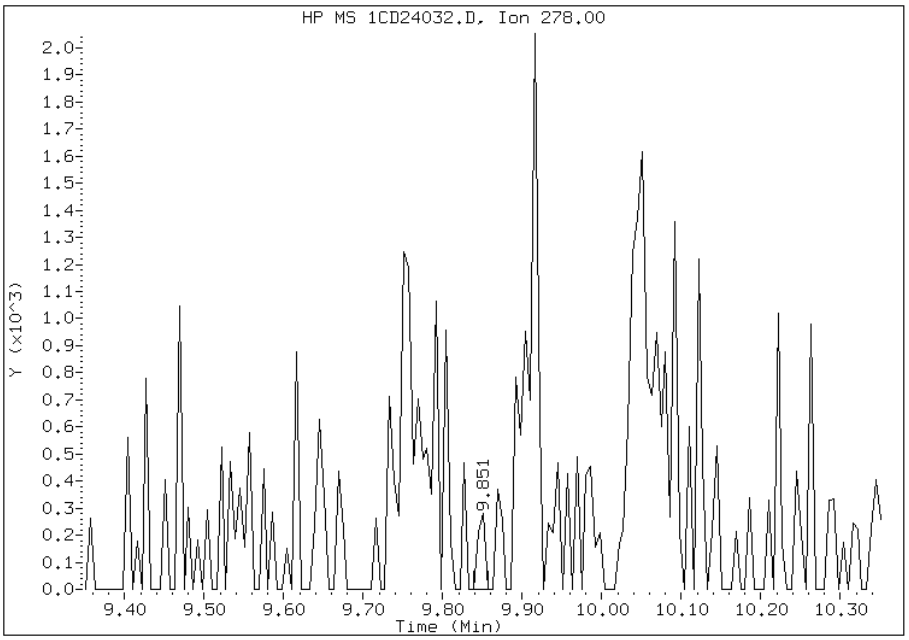
Processing Integration Results

RT: 9.85

Response: 173

Amount: 0

Conc: 3



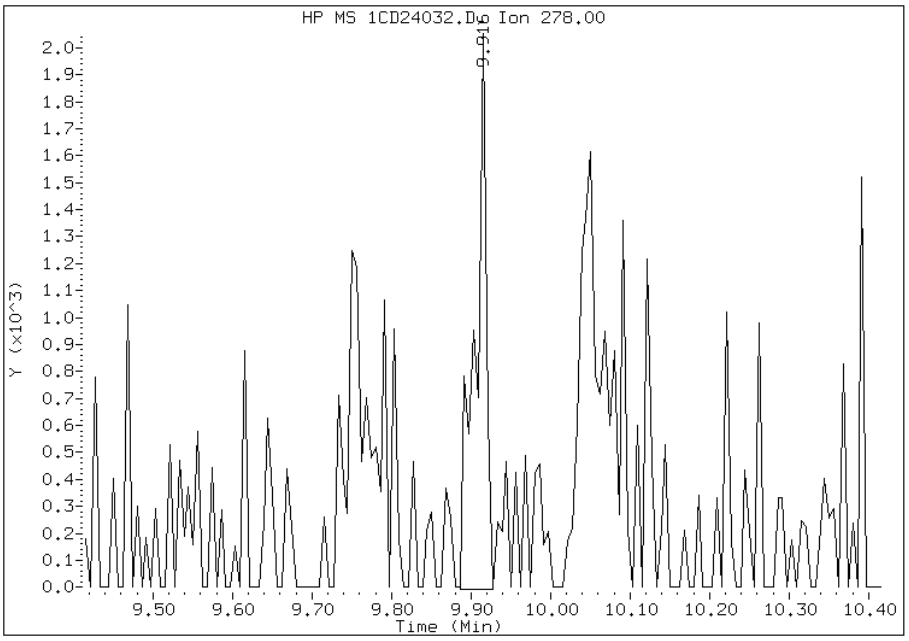
Manual Integration Results

RT: 9.92

Response: 2029

Amount: 0

Conc: 36



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24032.D
Inj. Date and Time: 24-APR-2013 21:51
Instrument ID: BSMC5973.i
Client ID: CV1150A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

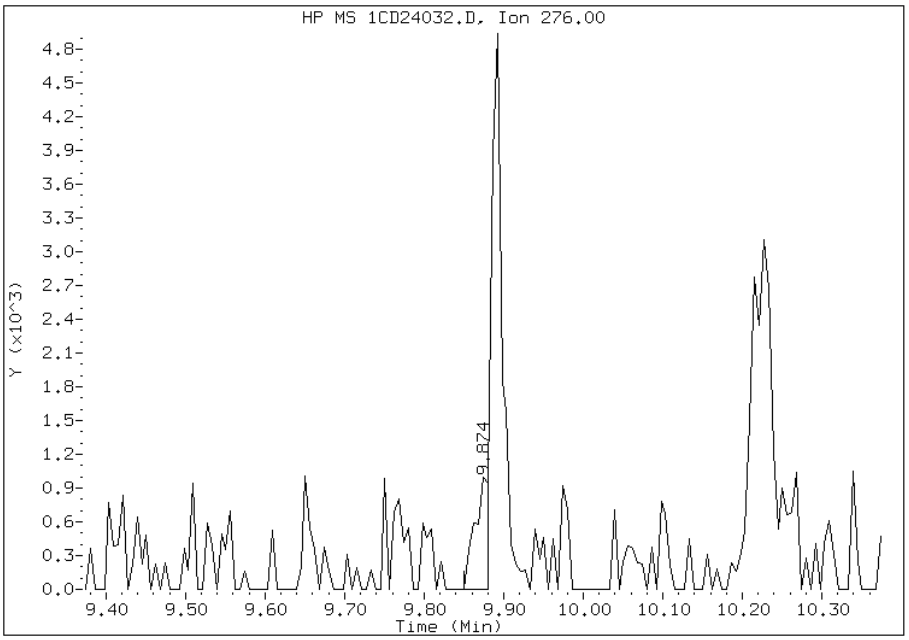
Processing Integration Results

RT: 9.87

Response: 1217

Amount: 1

Conc: 71



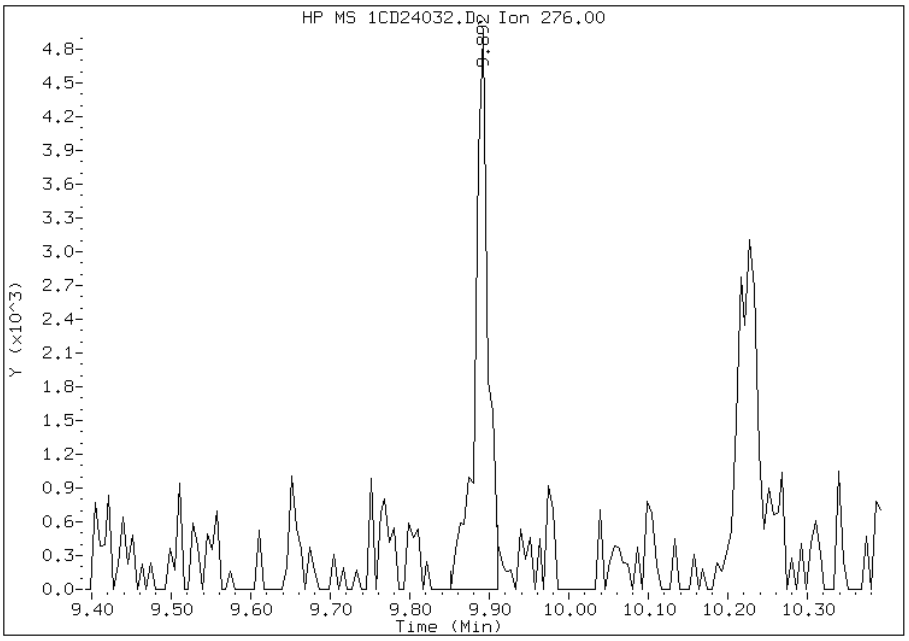
Manual Integration Results

RT: 9.89

Response: 5665

Amount: 2

Conc: 139



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:39
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1150B-CS | Lab Sample ID: 680-89513-13

Matrix: Solid | Lab File ID: 1CD24033.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:35

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.31(g) | Date Analyzed: 04/24/2013 22:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	35		10	5.0
56-55-3	Benzo[a]anthracene	110		9.6	4.7
50-32-8	Benzo[a]pyrene	120		12	6.2
205-99-2	Benzo[b]fluoranthene	170		15	7.3
191-24-2	Benzo[g,h,i]perylene	120		24	5.3
207-08-9	Benzo[k]fluoranthene	95		9.6	4.3
218-01-9	Chrysene	150		11	5.4
53-70-3	Dibenz(a,h)anthracene	26		24	4.9
206-44-0	Fluoranthene	190		24	4.8
86-73-7	Fluorene	8.4	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	130		24	8.5
90-12-0	1-Methylnaphthalene	48		48	5.3
91-57-6	2-Methylnaphthalene	110		48	8.5
91-20-3	Naphthalene	69		48	5.3
85-01-8	Phenanthrene	140		9.6	4.7
129-00-0	Pyrene	160		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24033.D
Lab Smp Id: 680-89513-A-13-A Client Smp ID: CV1150B-CS
Inj Date : 24-APR-2013 22:09
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-13-a
Misc Info : 680-89513-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 29
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	18.480	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	156057	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	108055	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	202404	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	24079	8.19379	656.5204
* 18 Chrysene-d12	240	7.609	7.592	(1.000)	213994	40.0000	(H)
* 23 Perylene-d12	264	8.774	8.733	(1.000)	203138	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	3545	0.86325	69.1668(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	2437	1.39152	111.4946
4 1-Methylnaphthalene	142	4.139	4.134	(1.139)	1370	0.60250	48.2748(Q)
9 Fluorene	166	5.057	5.057	(1.071)	397	0.10454	8.3760(Q)
11 Phenanthrene	178	5.686	5.675	(1.003)	9662	1.74345	139.6923
12 Anthracene	178	5.715	5.710	(1.008)	1820	0.44069	35.3098(Q)
13 Carbazole	167	5.827	5.822	(1.028)	1473	0.26443	21.1876(Q)
15 Fluoranthene	202	6.515	6.504	(1.149)	16124	2.38425	191.0358

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.686	6.675	(0.879)	12896	2.04051	163.4942(H)
17 Benzo(a)anthracene	228	7.604	7.581	(0.999)	8049	1.37056	109.8147(MH)
19 Chrysene	228	7.633	7.610	(1.003)	11211	1.83465	146.9993(MH)
20 Benzo(b)fluoranthene	252	8.439	8.410	(0.962)	11980	2.13237	170.8539(H)
21 Benzo(k)fluoranthene	252	8.456	8.428	(0.964)	6500	1.18906	95.2726
22 Benzo(a)pyrene	252	8.721	8.686	(0.994)	7327	1.53599	123.0698
24 Indeno(1,2,3-cd)pyrene	276	9.892	9.833	(1.127)	5611	1.61172	129.1375(M)
25 Dibenzo(a,h)anthracene	278	9.909	9.851	(1.129)	1583	0.32137	25.7493(QH)
26 Benzo(g,h,i)perylene	276	10.221	10.163	(1.165)	7623	1.48620	119.0808(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: 1CD24033.D

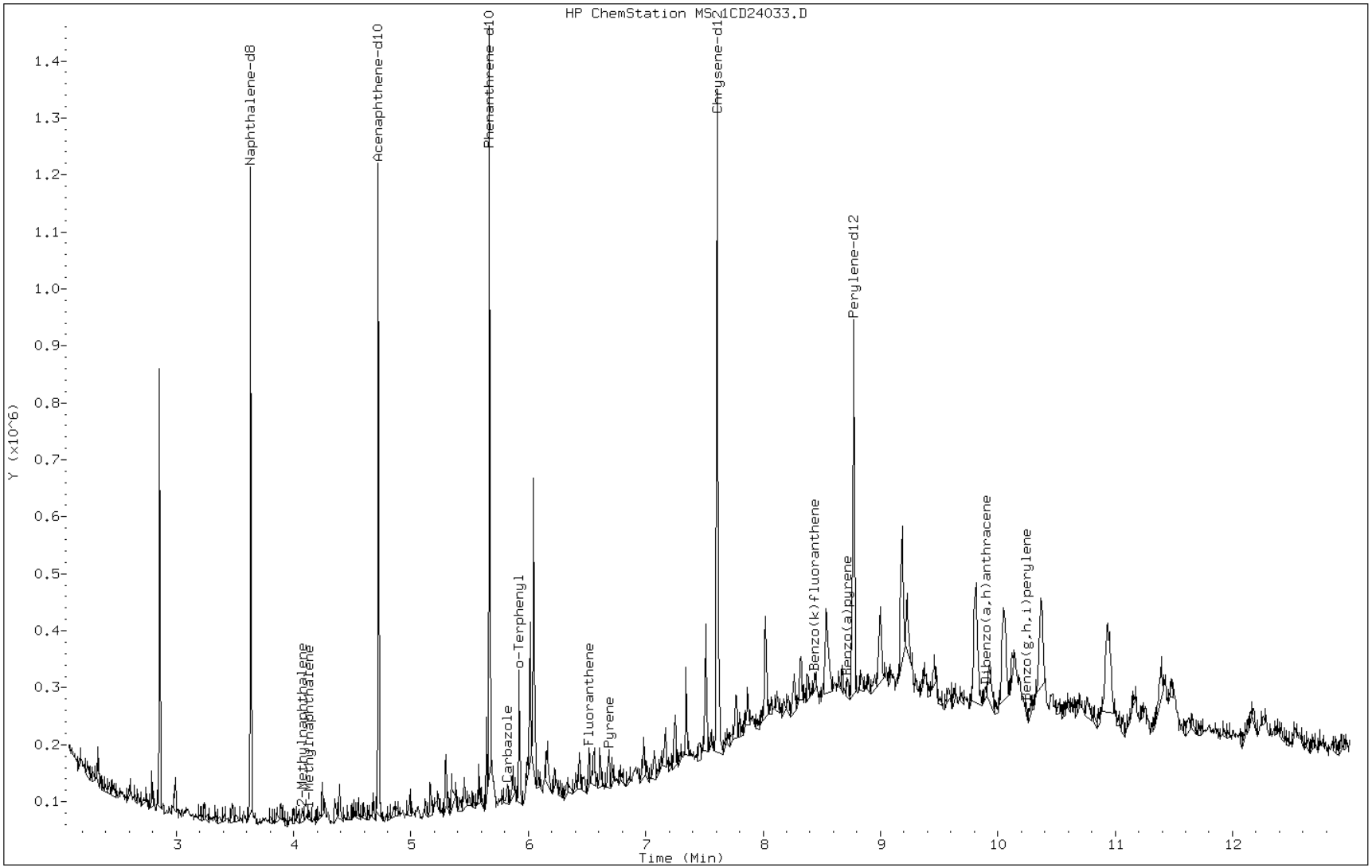
Date: 24-APR-2013 22:09

Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

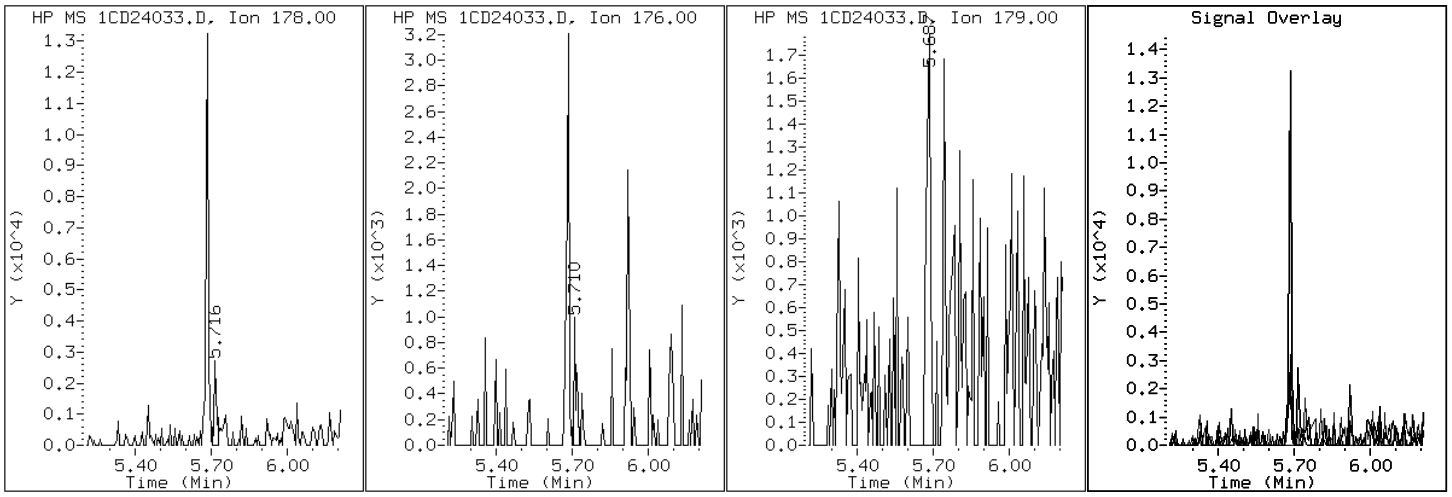
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

12 Anthracene



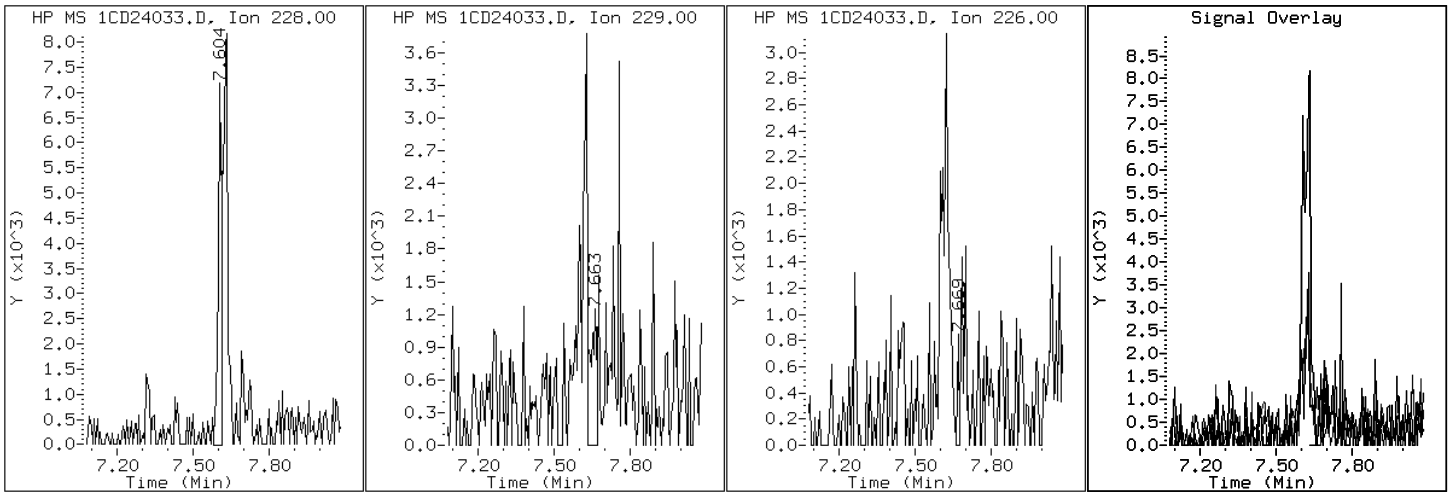
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

17 Benzo(a)anthracene



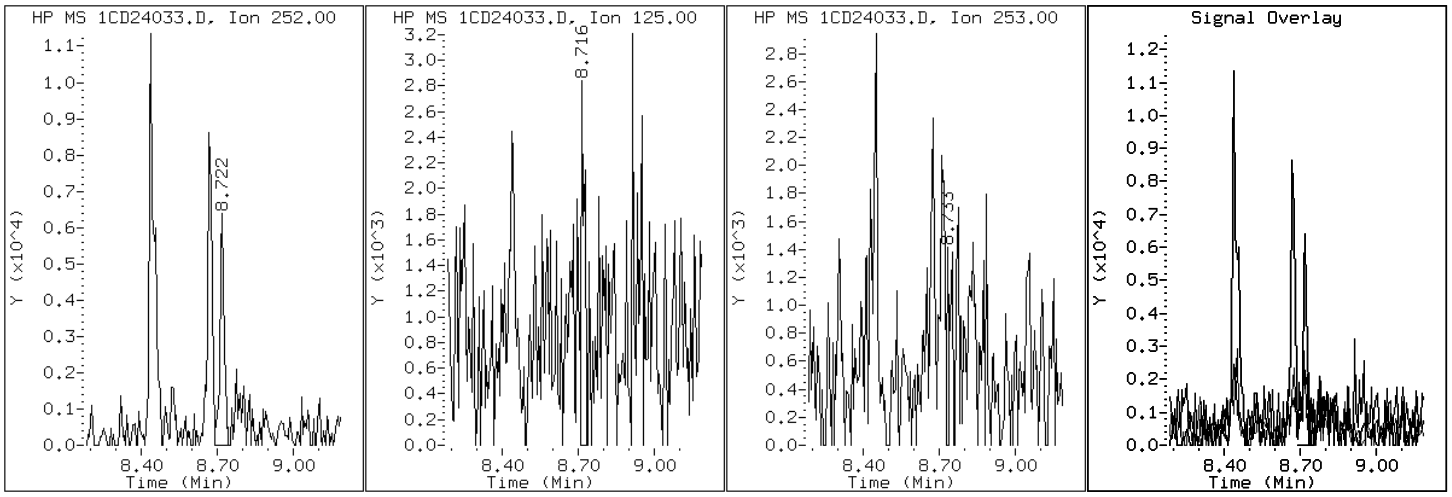
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

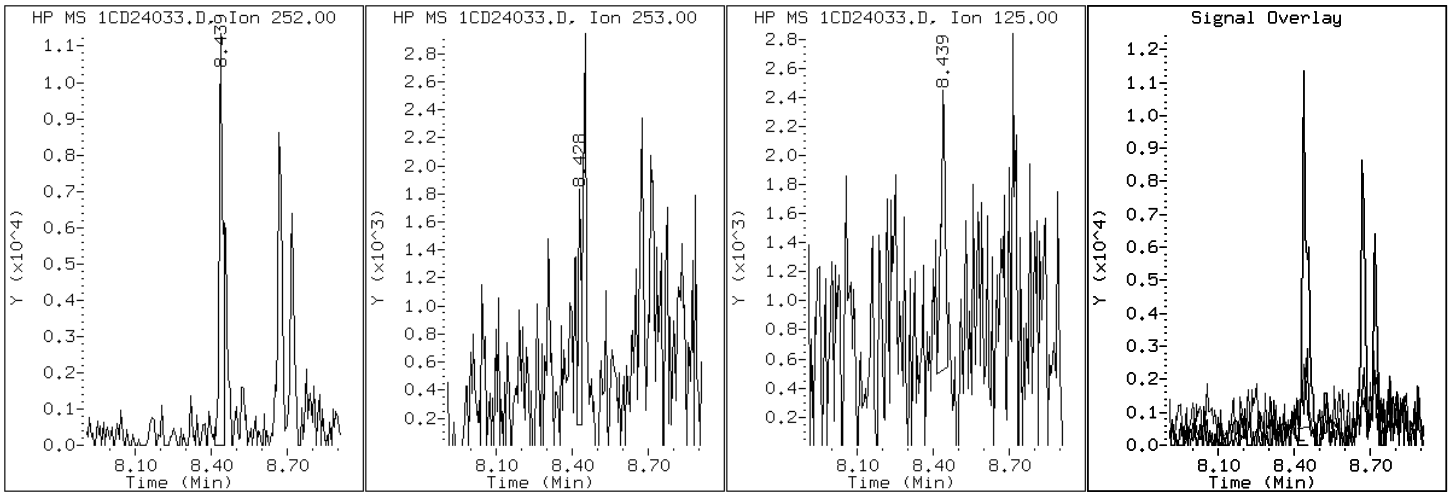
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

20 Benzo(b)fluoranthene



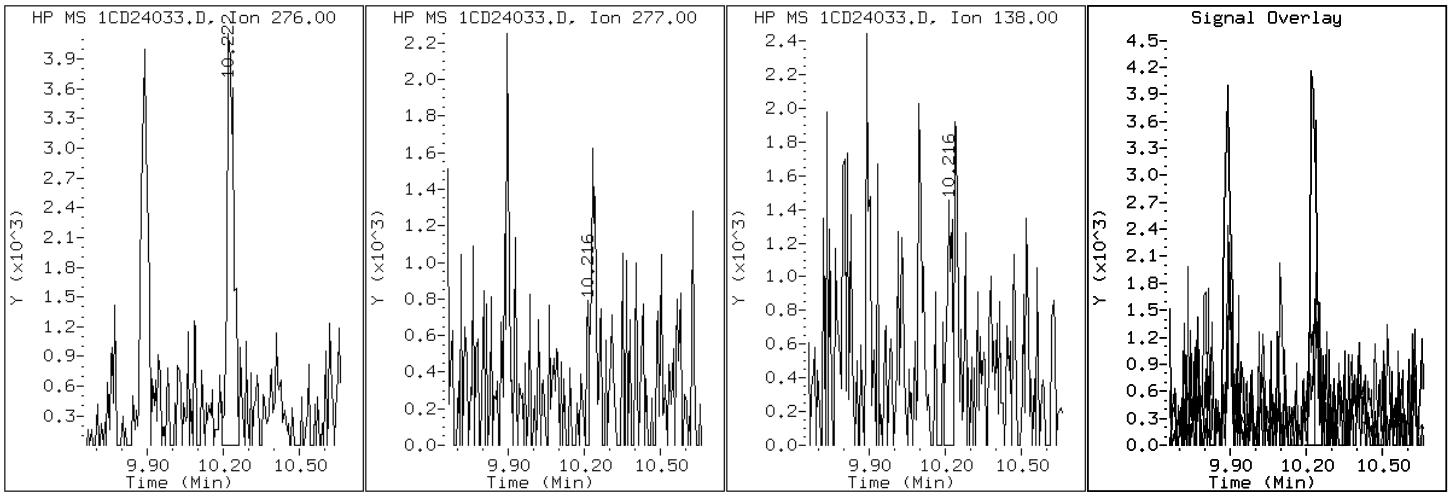
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



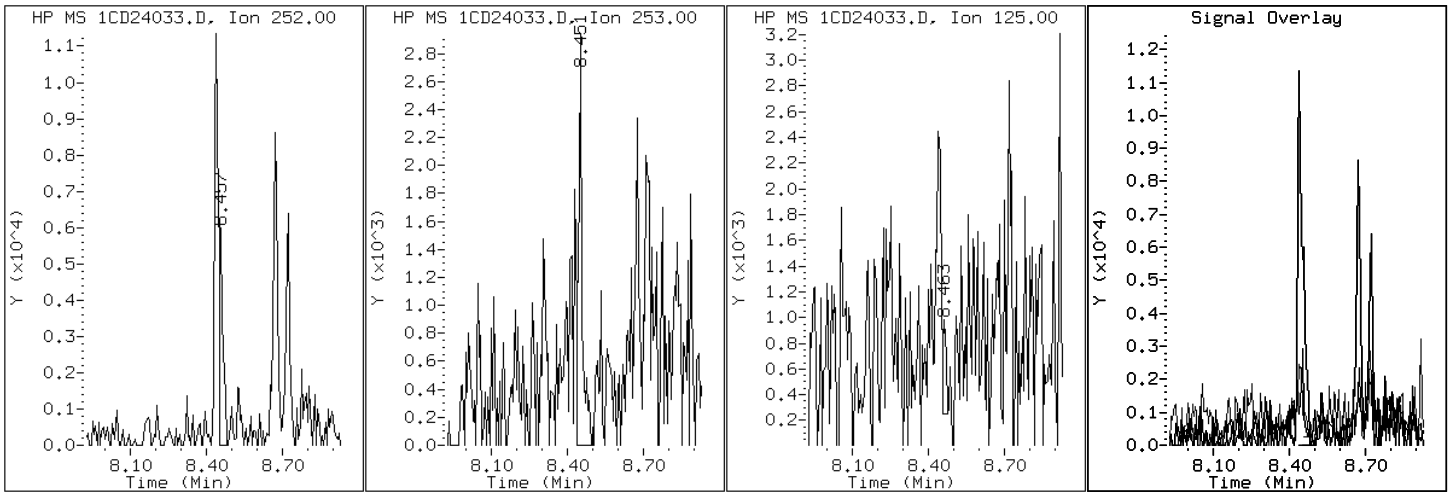
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



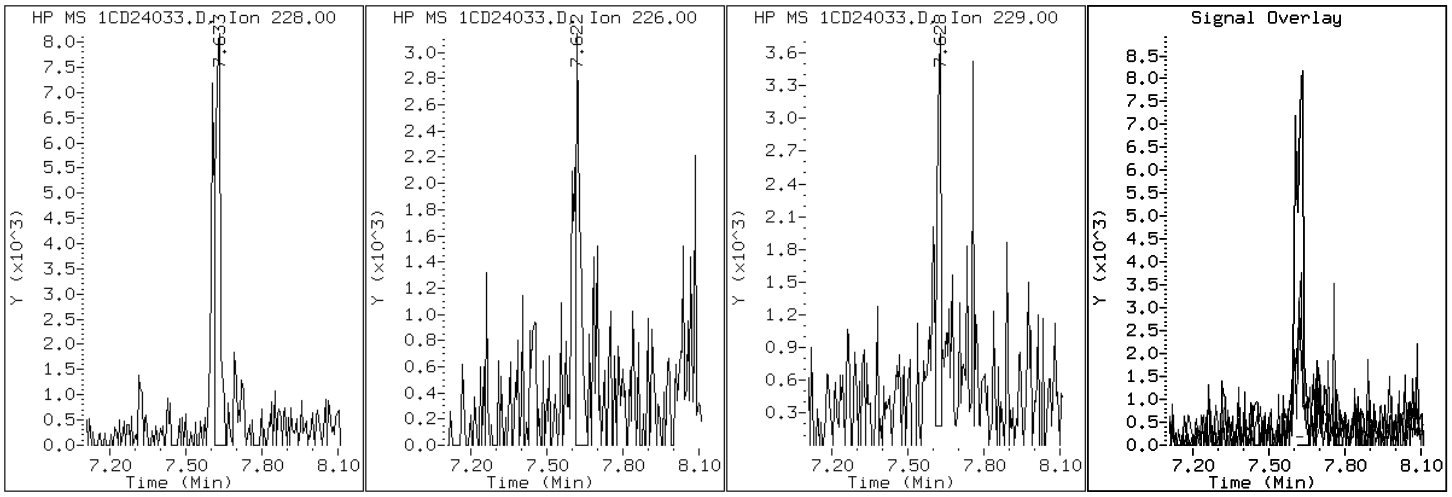
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

19 Chrysene



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

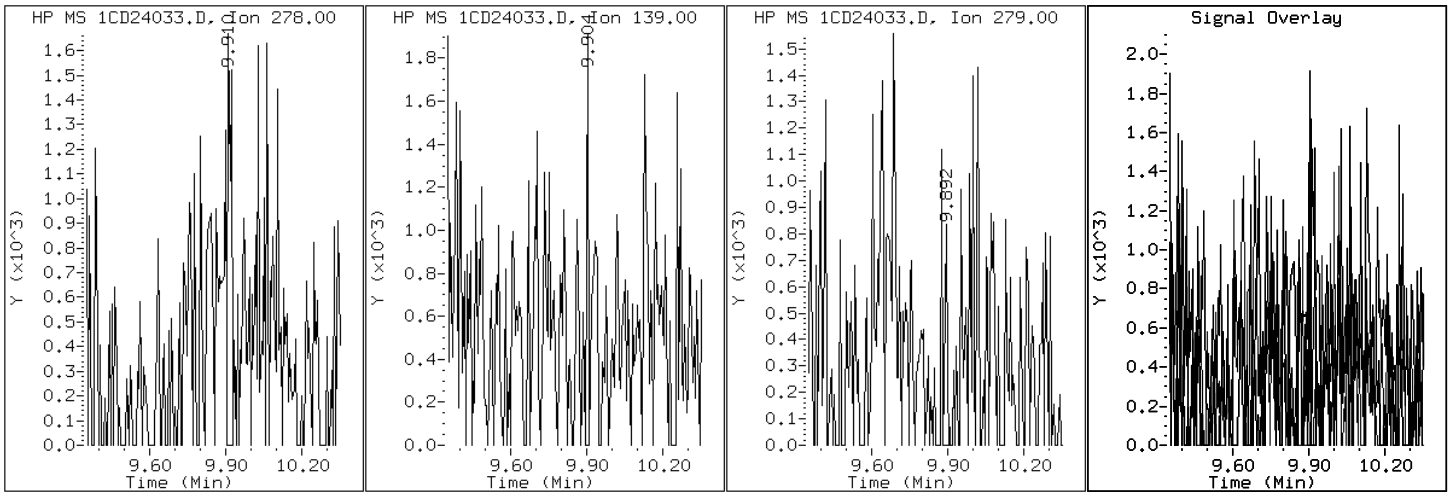
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

25 Dibenzo(a,h)anthracene



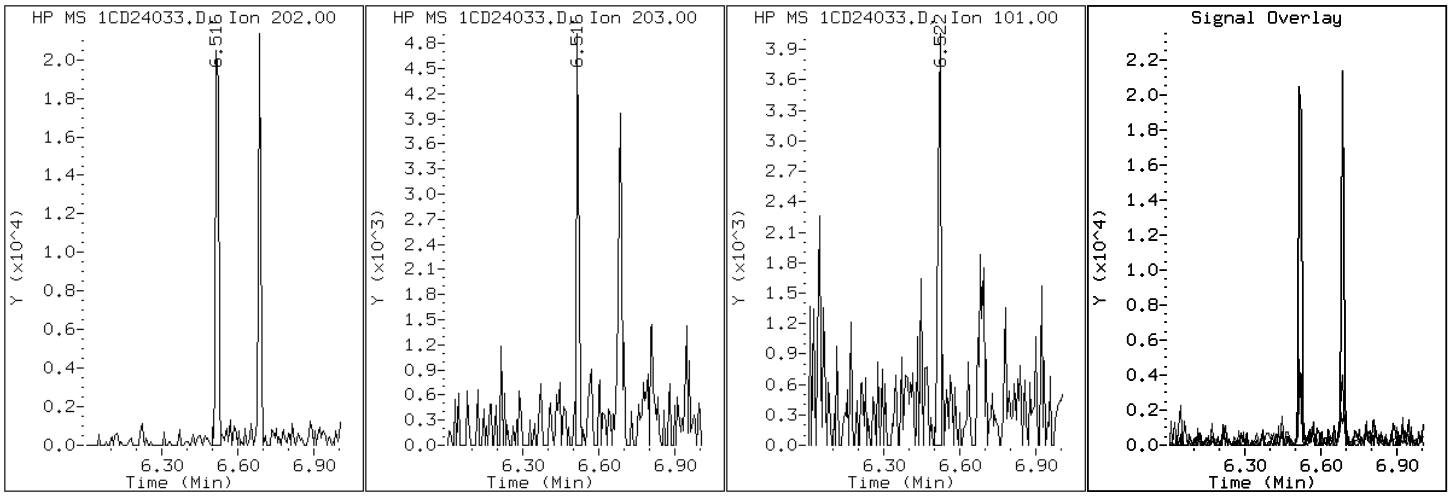
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

15 Fluoranthene



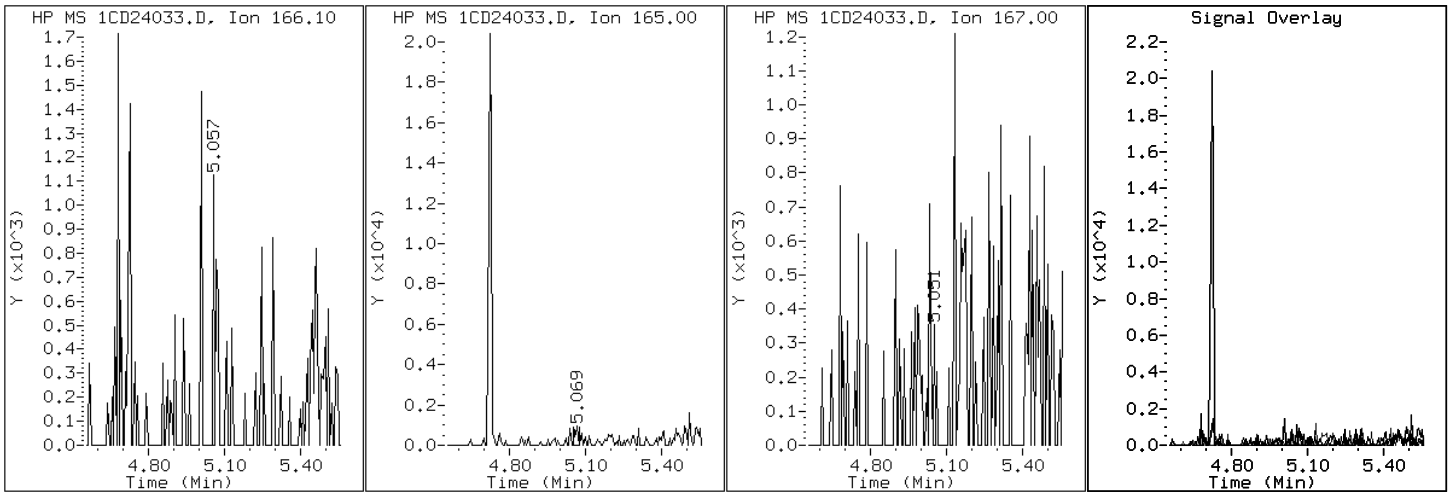
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

9 Fluorene



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

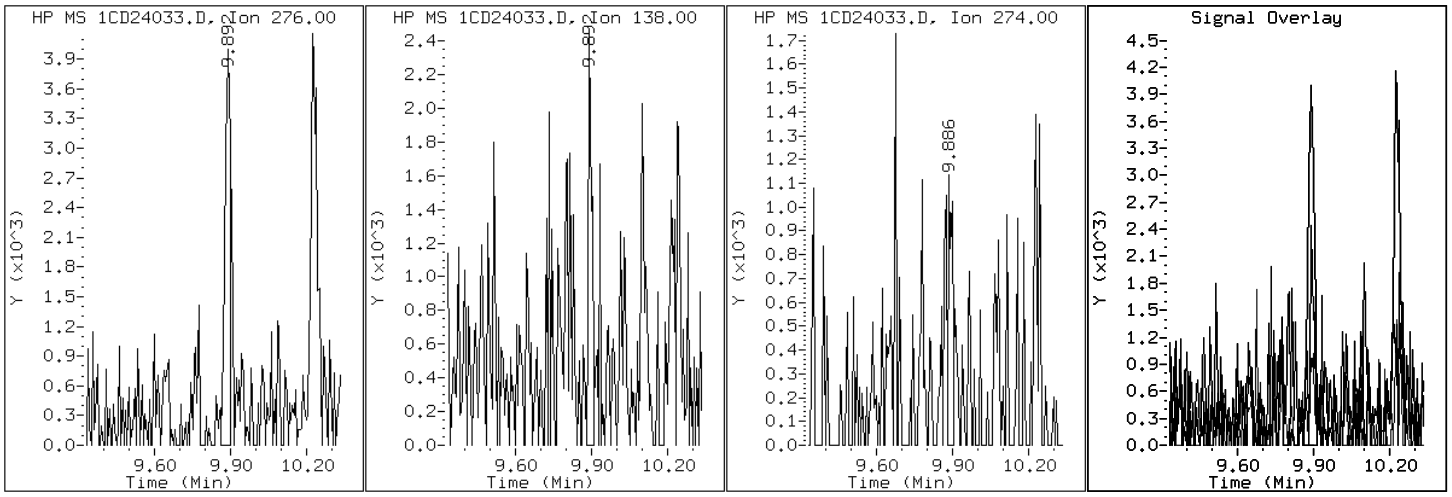
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

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



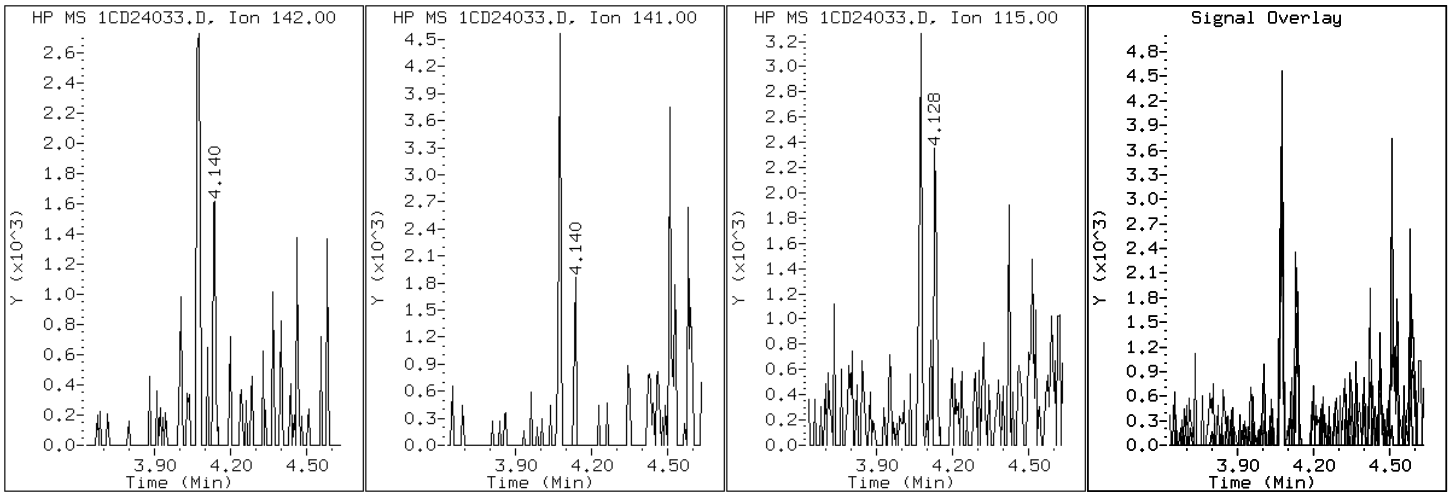
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

4 1-Methylnaphthalene



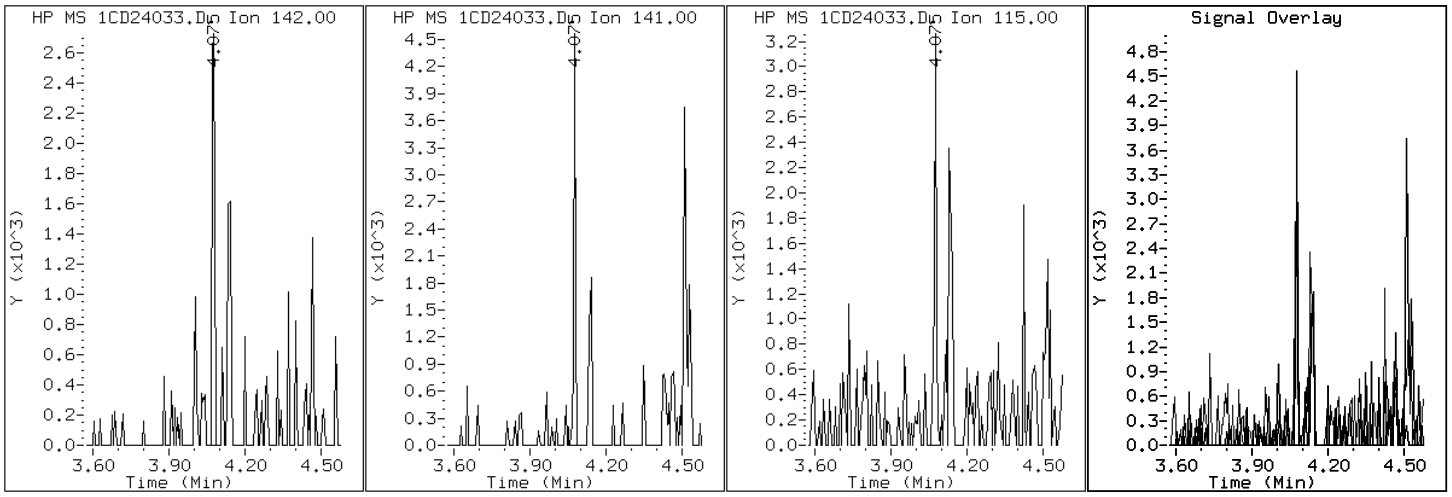
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

3 2-Methylnaphthalene



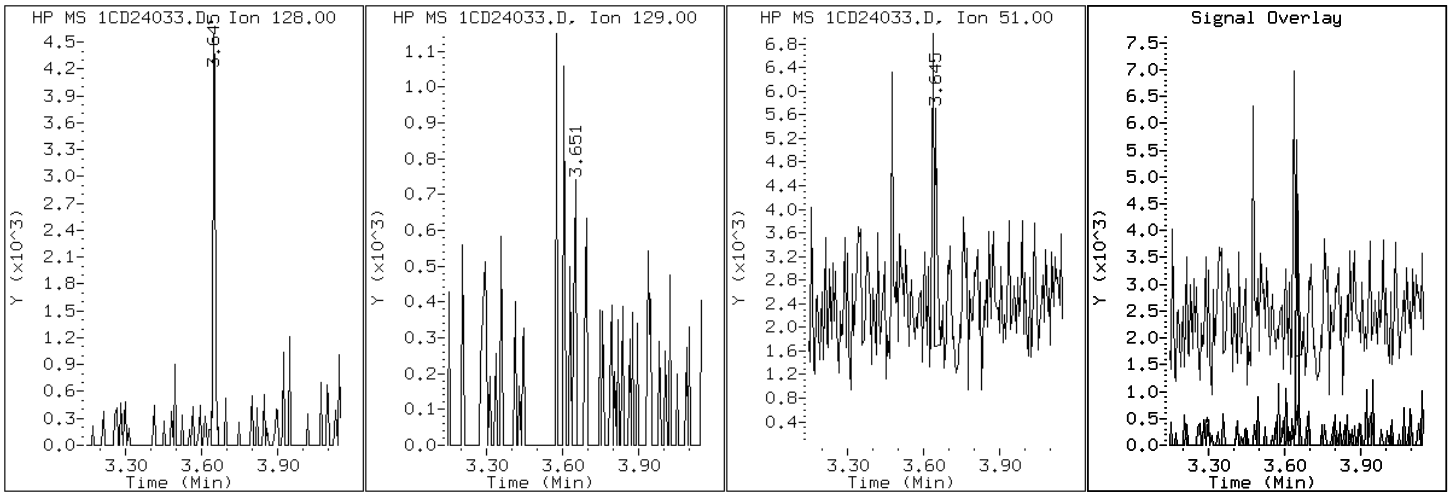
Data File: 1CD24033.D

Date: 24-APR-2013 22:09

Client ID: CV1150B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a Operator: SCC

2 Naphthalene



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

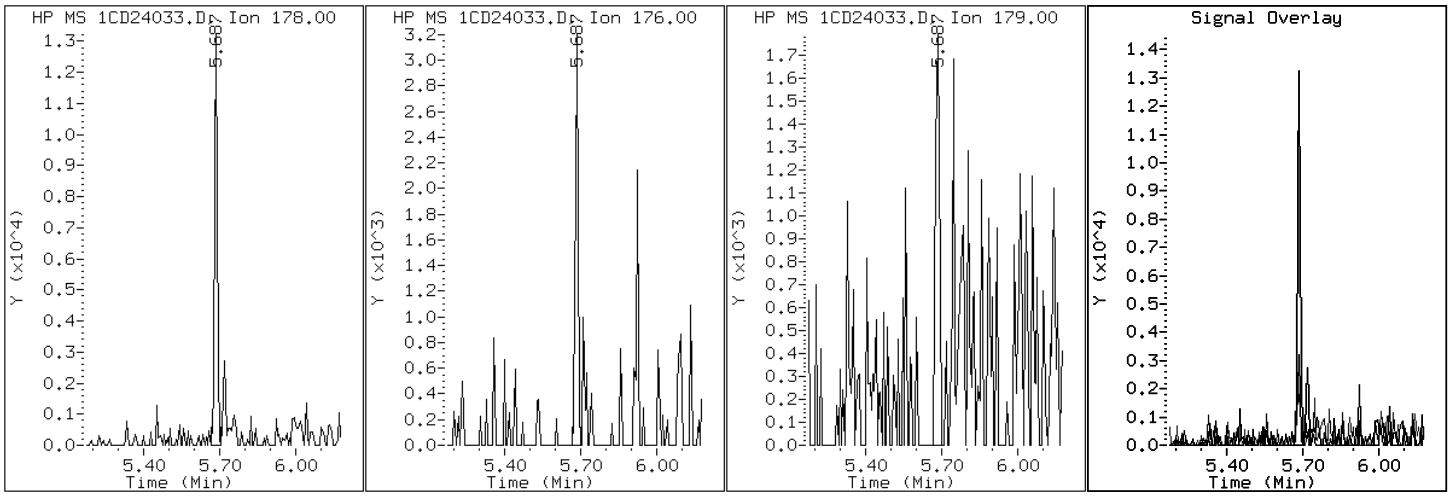
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24033.D

Date: 24-APR-2013 22:09

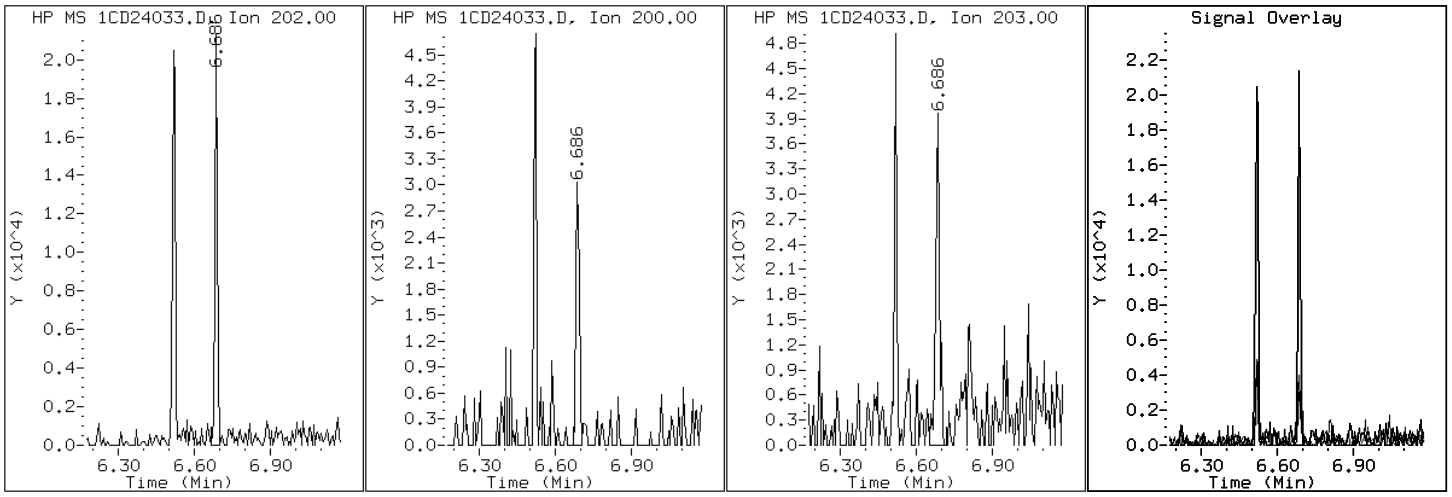
Client ID: CV1150B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-13-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24033.D
Inj. Date and Time: 24-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV1150B-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 04/25/2013

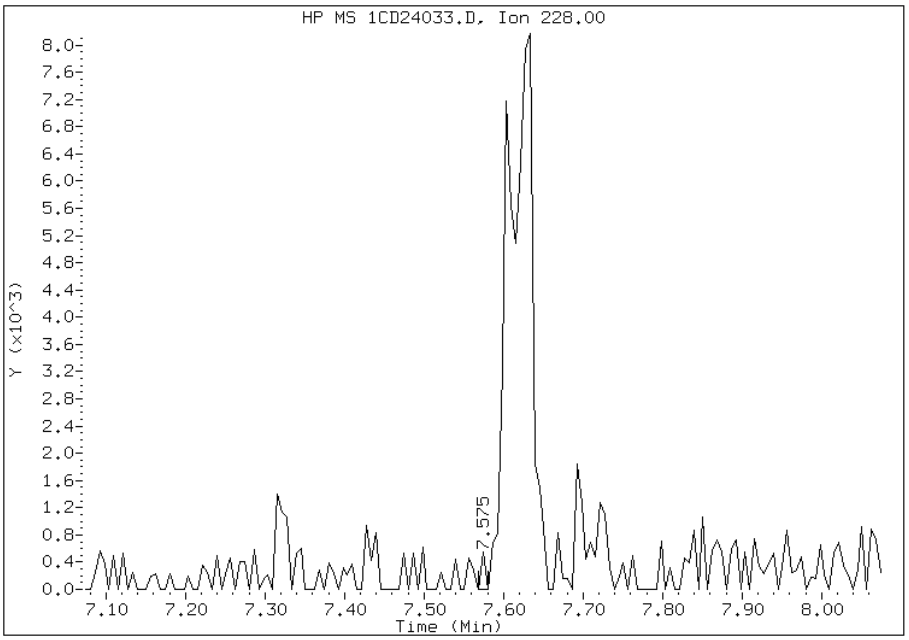
Processing Integration Results

RT: 7.57

Response: 191

Amount: 0

Conc: 0



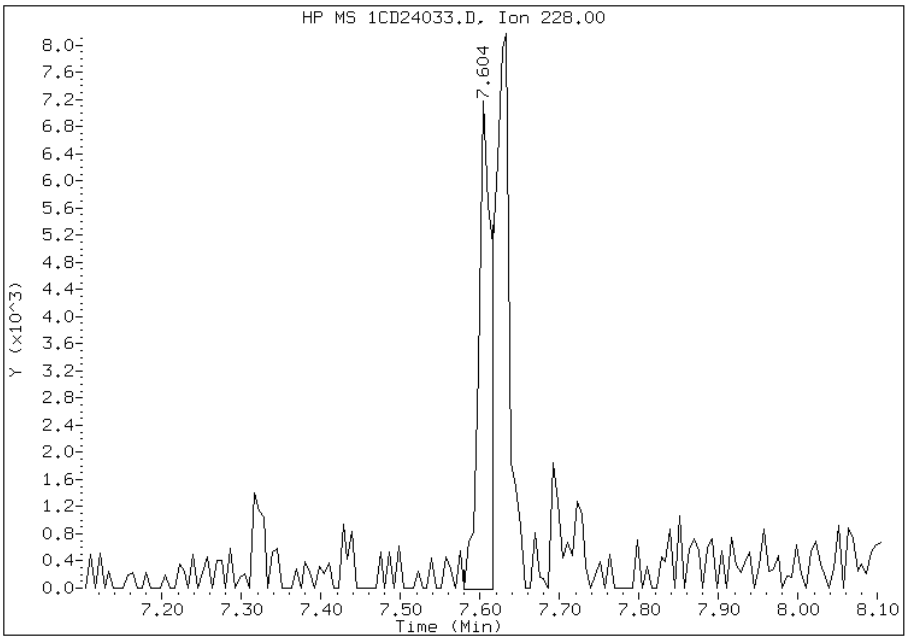
Manual Integration Results

RT: 7.60

Response: 8049

Amount: 1

Conc: 110



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:47
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD24033.D
Inj. Date and Time: 24-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV1150B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

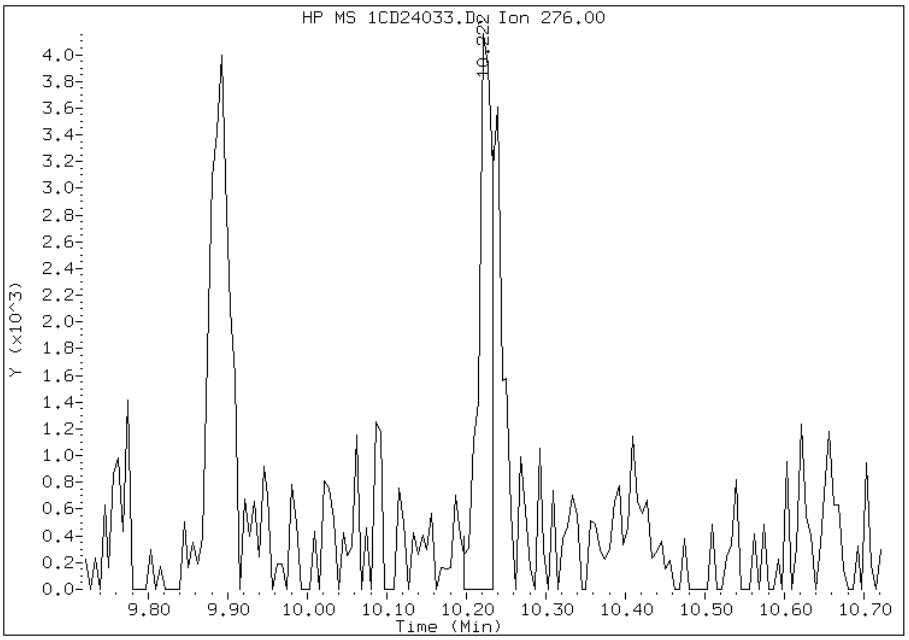
Processing Integration Results

RT: 10.22

Response: 5047

Amount: 1

Conc: 79



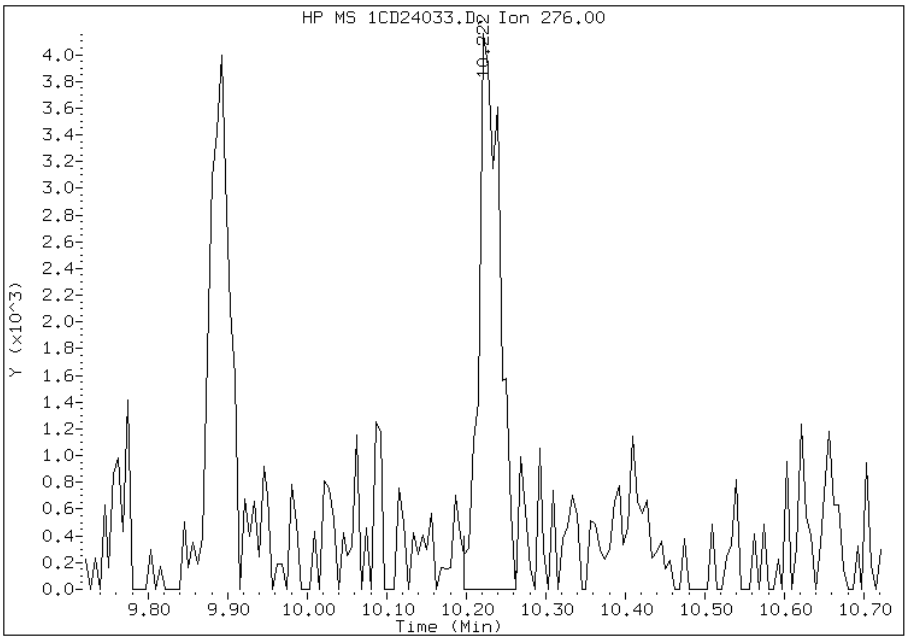
Manual Integration Results

RT: 10.22

Response: 7623

Amount: 1

Conc: 119



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24033.D
Inj. Date and Time: 24-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV1150B-CS
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/25/2013

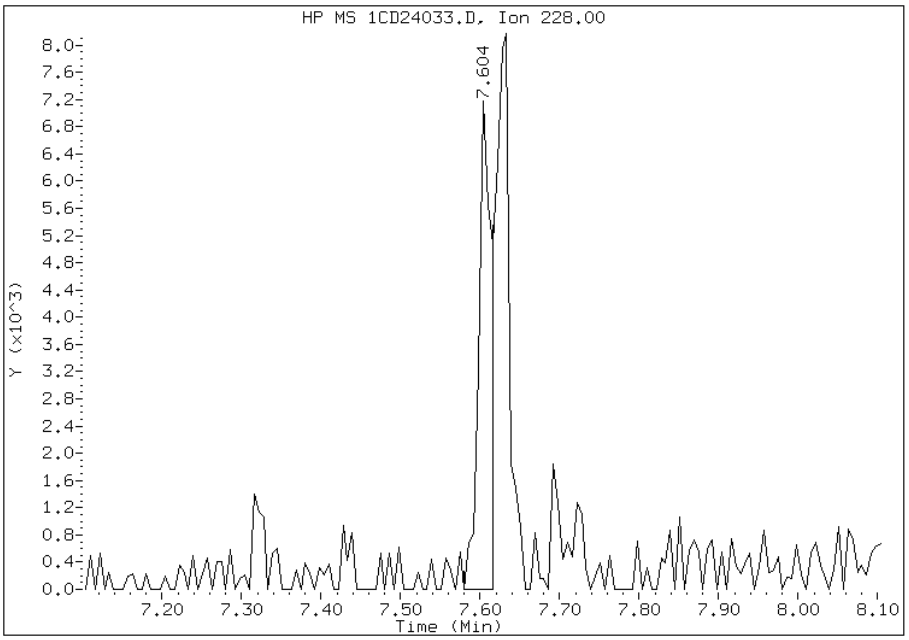
Processing Integration Results

RT: 7.60

Response: 8005

Amount: 1

Conc: 105



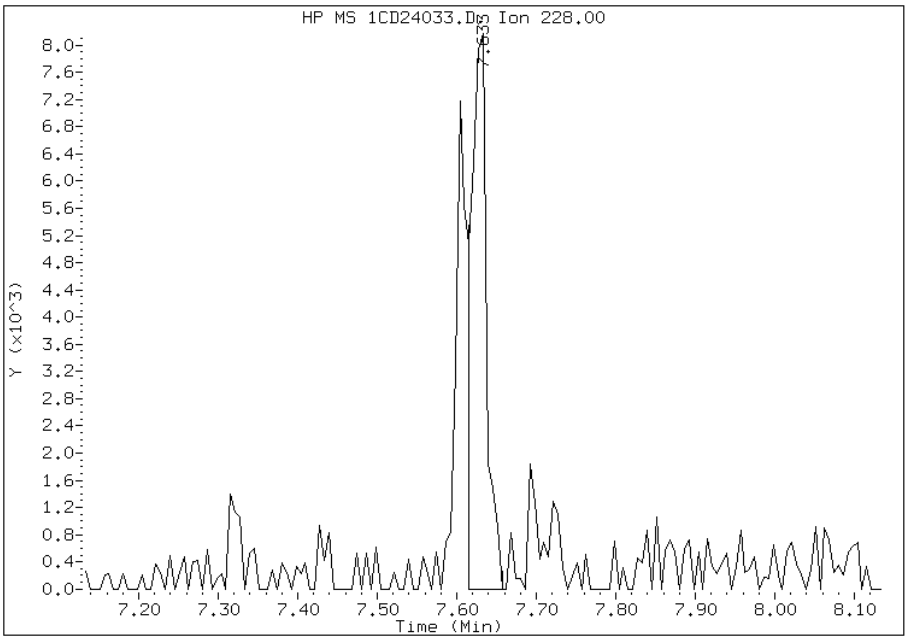
Manual Integration Results

RT: 7.63

Response: 11211

Amount: 2

Conc: 147



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24033.D
Inj. Date and Time: 24-APR-2013 22:09
Instrument ID: BSMC5973.i
Client ID: CV1150B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

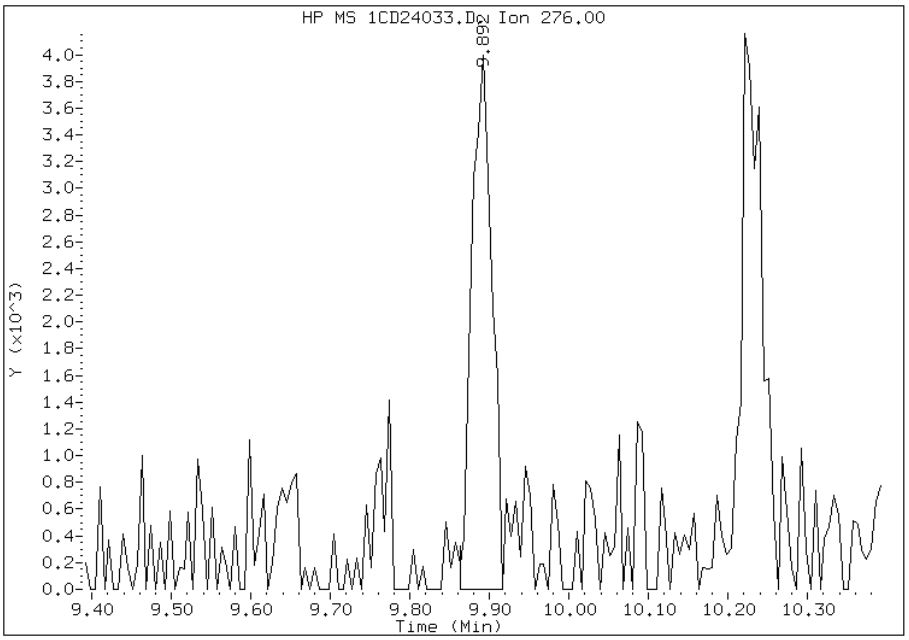
Processing Integration Results

RT: 9.89

Response: 6916

Amount: 2

Conc: 148



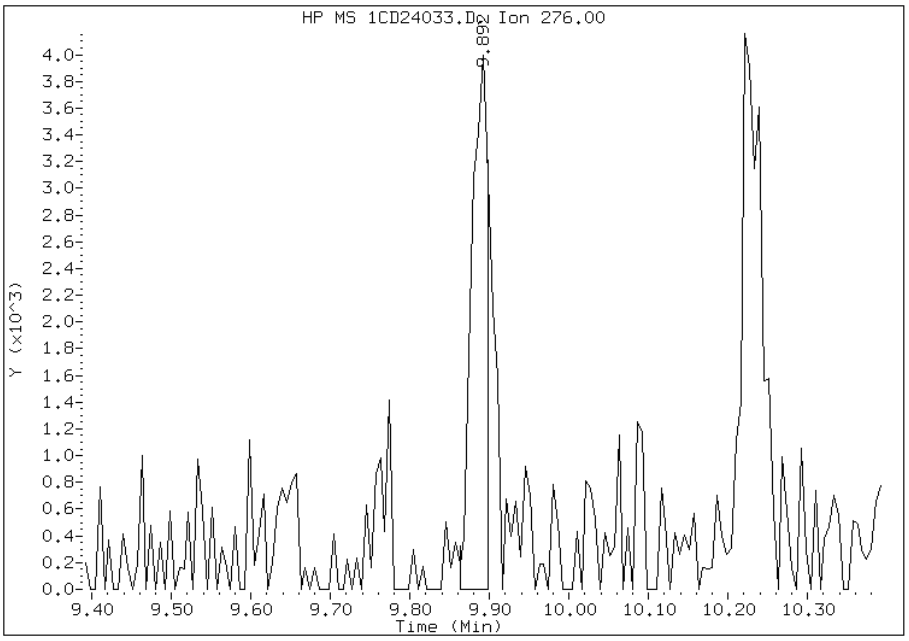
Manual Integration Results

RT: 9.89

Response: 5611

Amount: 2

Conc: 129



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1332A-CS | Lab Sample ID: 680-89513-14

Matrix: Solid | Lab File ID: 1CD24034.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 12:15

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.08(g) | Date Analyzed: 04/24/2013 22:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.1
120-12-7	Anthracene	32		10	5.1
56-55-3	Benzo[a]anthracene	73		9.7	4.7
50-32-8	Benzo[a]pyrene	79		13	6.3
205-99-2	Benzo[b]fluoranthene	110		15	7.4
191-24-2	Benzo[g,h,i]perylene	61		24	5.3
207-08-9	Benzo[k]fluoranthene	49		9.7	4.4
218-01-9	Chrysene	89		11	5.5
53-70-3	Dibenz(a,h)anthracene	24	U	24	5.0
206-44-0	Fluoranthene	98		24	4.8
86-73-7	Fluorene	13	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	68		24	8.6
90-12-0	1-Methylnaphthalene	48	U	48	5.3
91-57-6	2-Methylnaphthalene	84		48	8.6
91-20-3	Naphthalene	27	J	48	5.3
85-01-8	Phenanthrene	83		9.7	4.7
129-00-0	Pyrene	95		24	4.5

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\1C042413.b\1CD24034.D
Lab Smp Id: 680-89513-A-14-A Client Smp ID: CV1332A-CS
Inj Date : 24-APR-2013 22:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-14-a
Misc Info : 680-89513-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 30
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	17.871	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	162685	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	111331	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	212363	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	17523	5.68323	458.8809
* 18 Chrysene-d12	240	7.610	7.592	(1.000)	227851	40.0000	
* 23 Perylene-d12	264	8.774	8.733	(1.000)	207553	40.0000	
2 Naphthalene	128	3.651	3.646	(1.005)	1242	0.33223	26.8253(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	1342	1.03898	83.8899
9 Fluorene	166	5.051	5.057	(1.070)	632	0.16284	13.1478(Q)
11 Phenanthrene	178	5.686	5.675	(1.003)	5993	1.03069	83.2207
12 Anthracene	178	5.716	5.710	(1.008)	1615	0.39441	31.8461
13 Carbazole	167	5.833	5.822	(1.029)	1139	0.19489	15.7356(Q)
15 Fluoranthene	202	6.521	6.504	(1.150)	8738	1.21903	98.4282
16 Pyrene	202	6.686	6.675	(0.879)	7889	1.17235	94.6589

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.604	7.581	(0.999)	5867	0.89969	72.6432
19 Chrysene	228	7.633	7.610	(1.003)	7165	1.10122	88.9158
20 Benzo(b)fluoranthene	252	8.439	8.410	(0.962)	7511	1.30847	105.6500(H)
21 Benzo(k)fluoranthene	252	8.457	8.428	(0.964)	3396	0.60802	49.0937
22 Benzo(a)pyrene	252	8.721	8.686	(0.994)	4317	0.97966	79.1008
24 Indeno(1,2,3-cd)pyrene	276	9.880	9.833	(1.126)	1314	0.84594	68.3040(Q)
26 Benzo(g,h,i)perylene	276	10.221	10.163	(1.165)	3930	0.74991	60.5497(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: 1CD24034.D

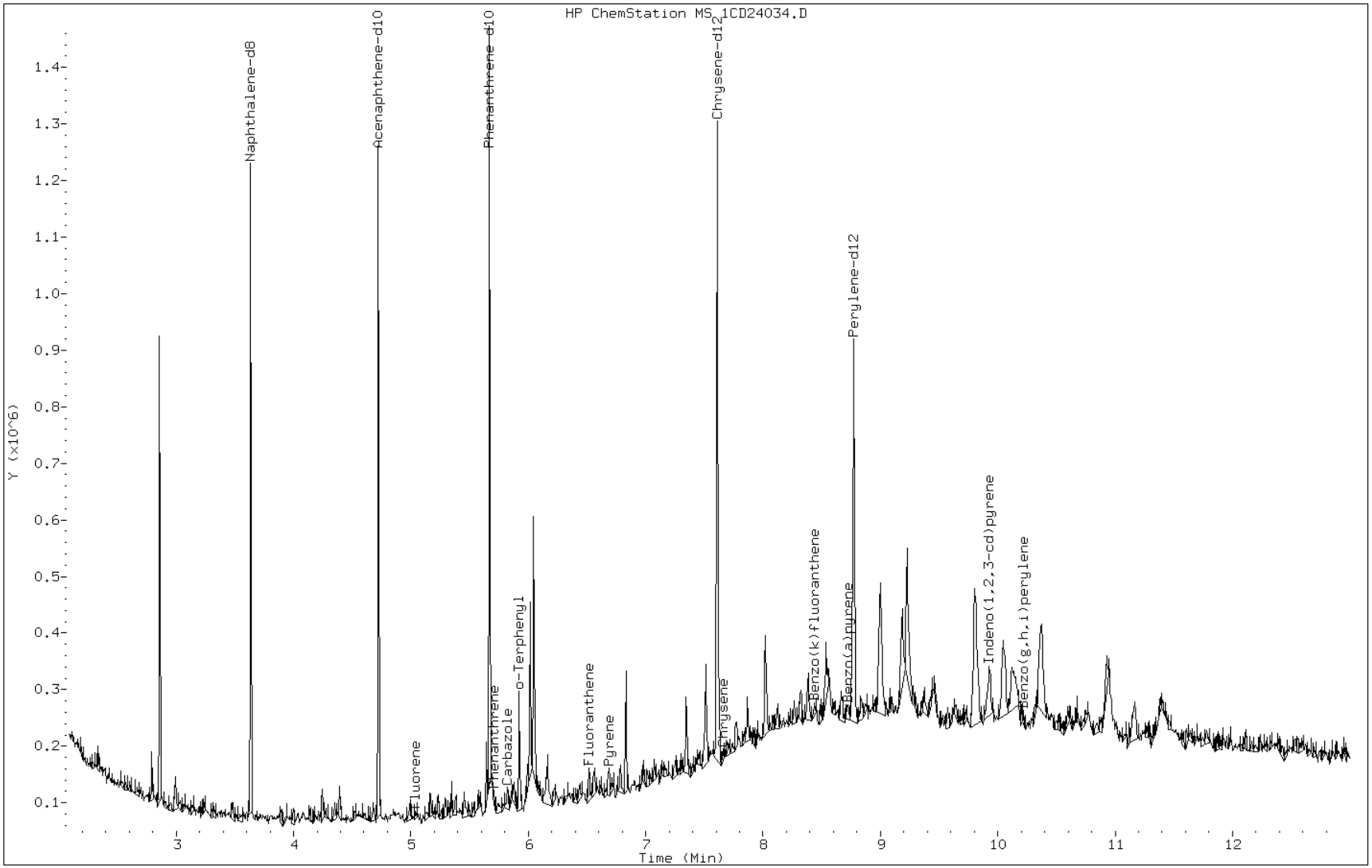
Date: 24-APR-2013 22:27

Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

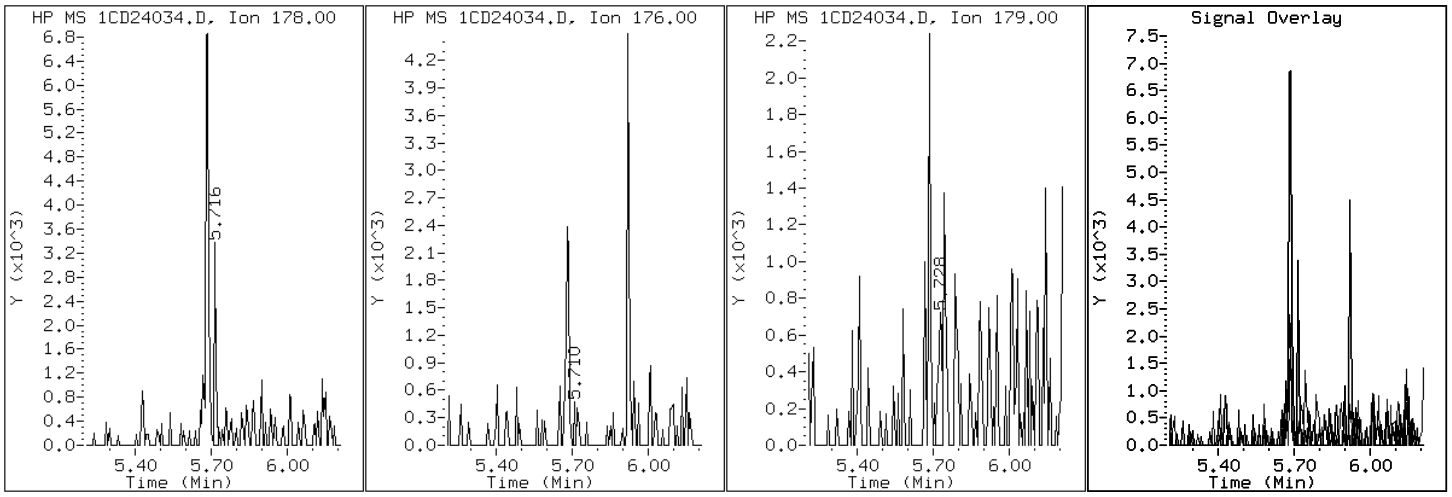
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

12 Anthracene



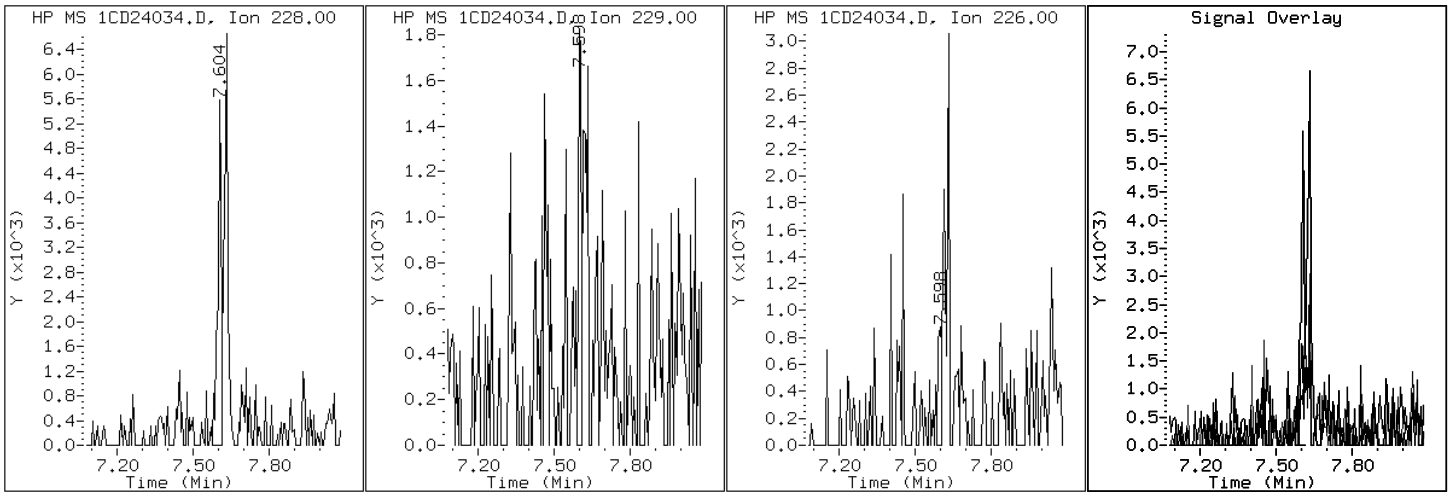
Data File: 1CD24034.D

Date: 24-APR-2013 22:27

Client ID: CV1332A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

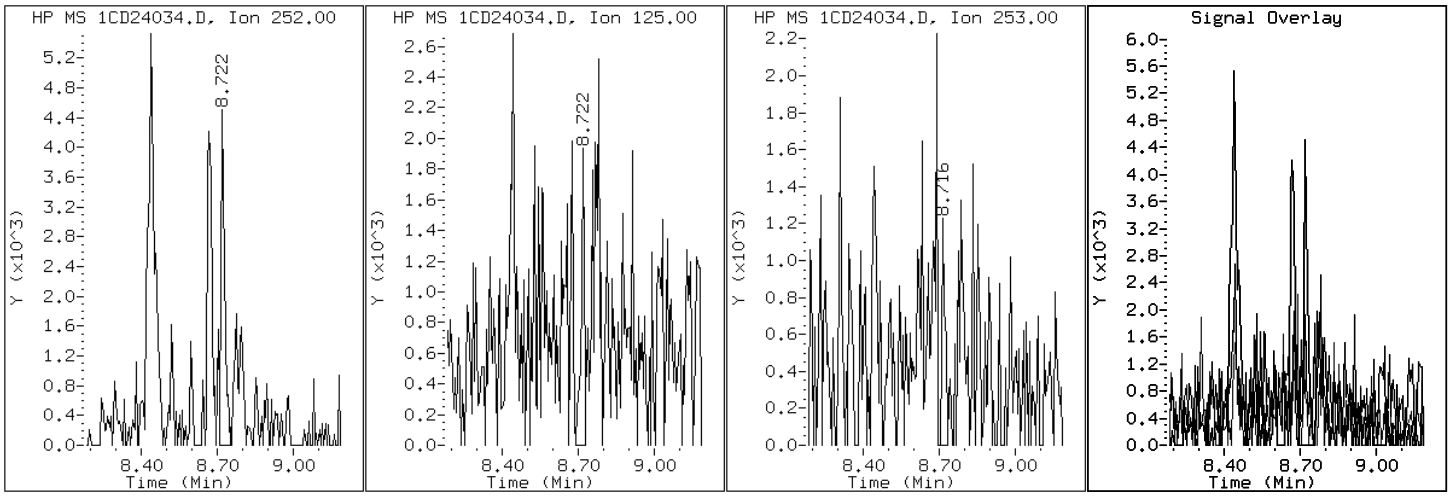
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

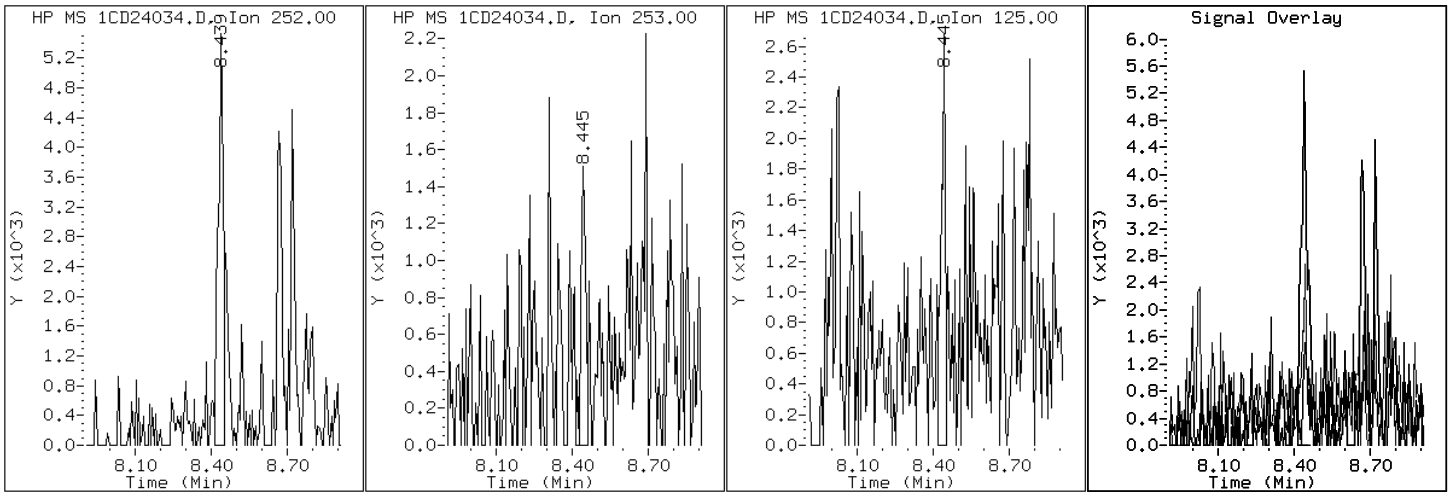
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

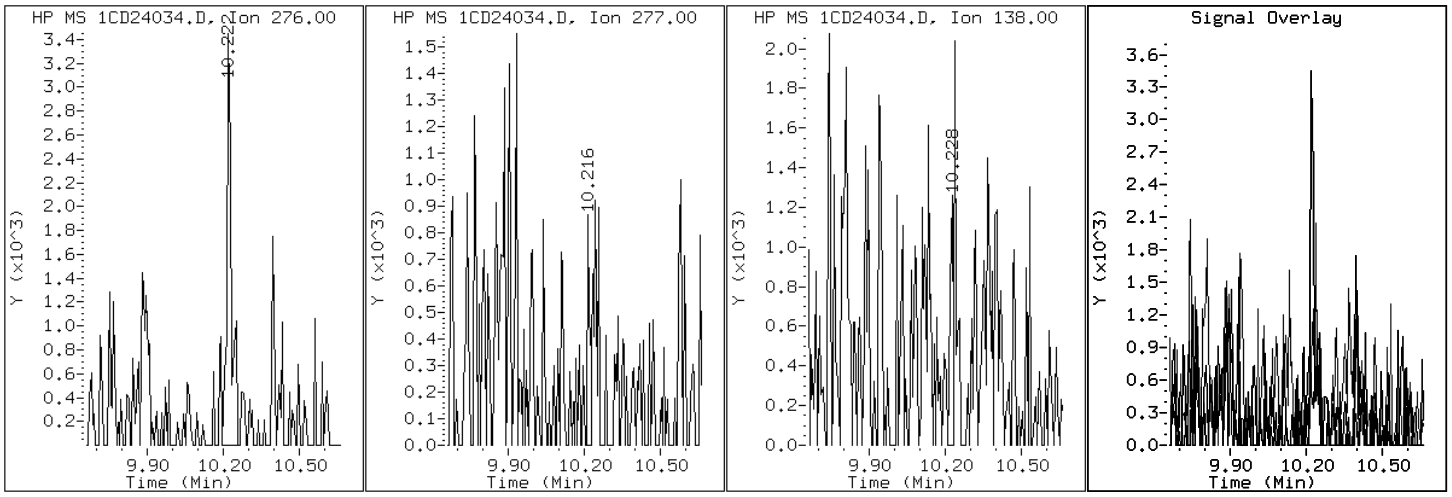
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

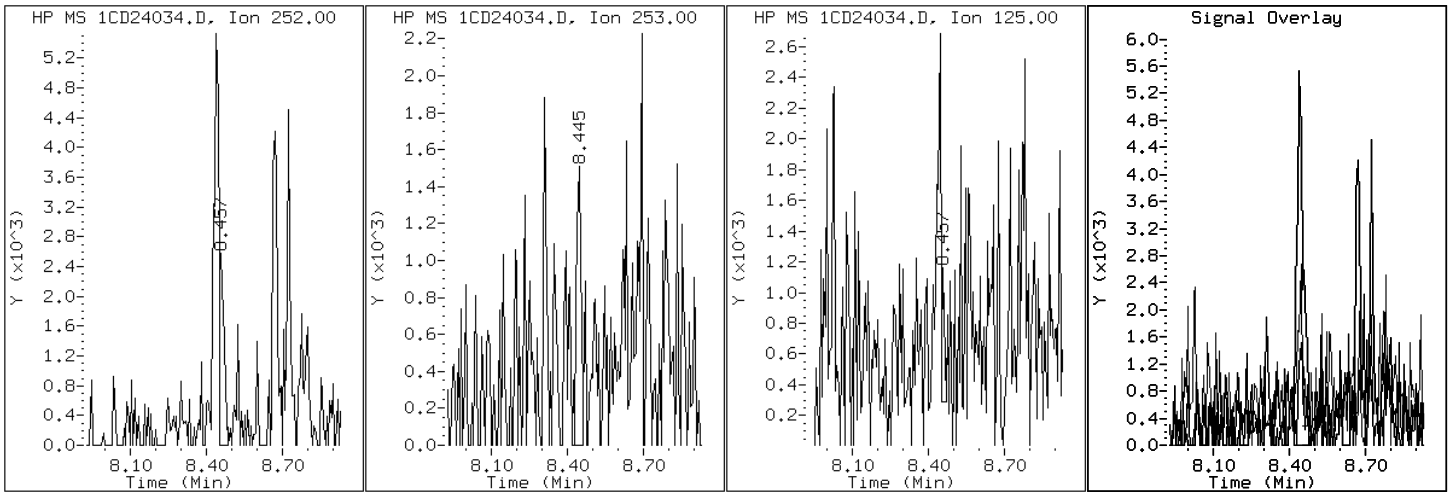
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



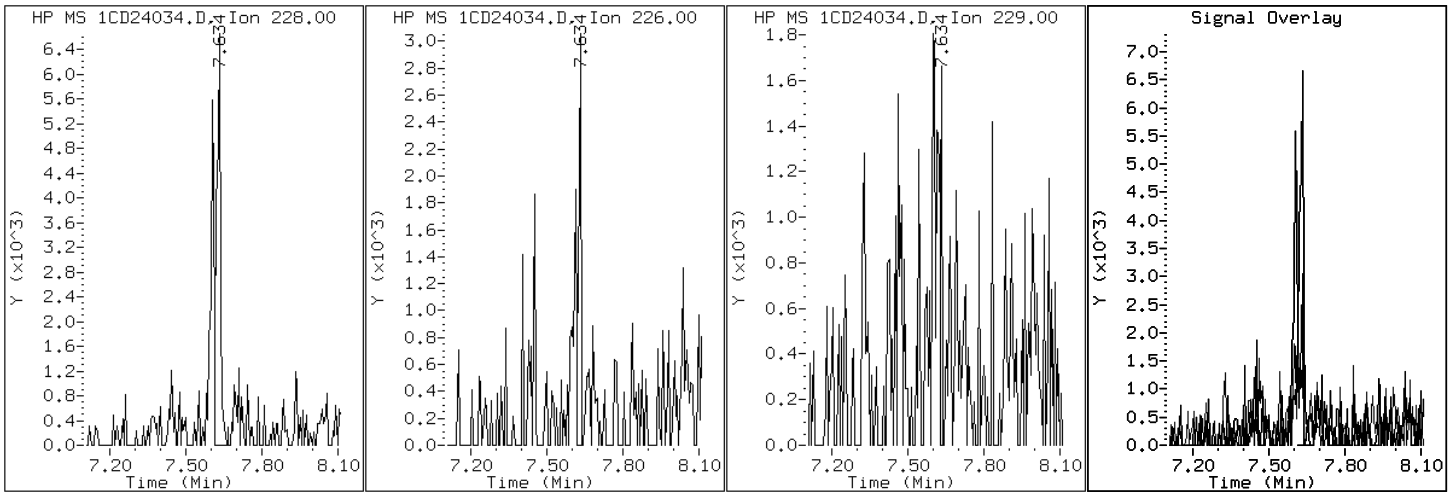
Data File: 1CD24034.D

Date: 24-APR-2013 22:27

Client ID: CV1332A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a Operator: SCC

19 Chrysene



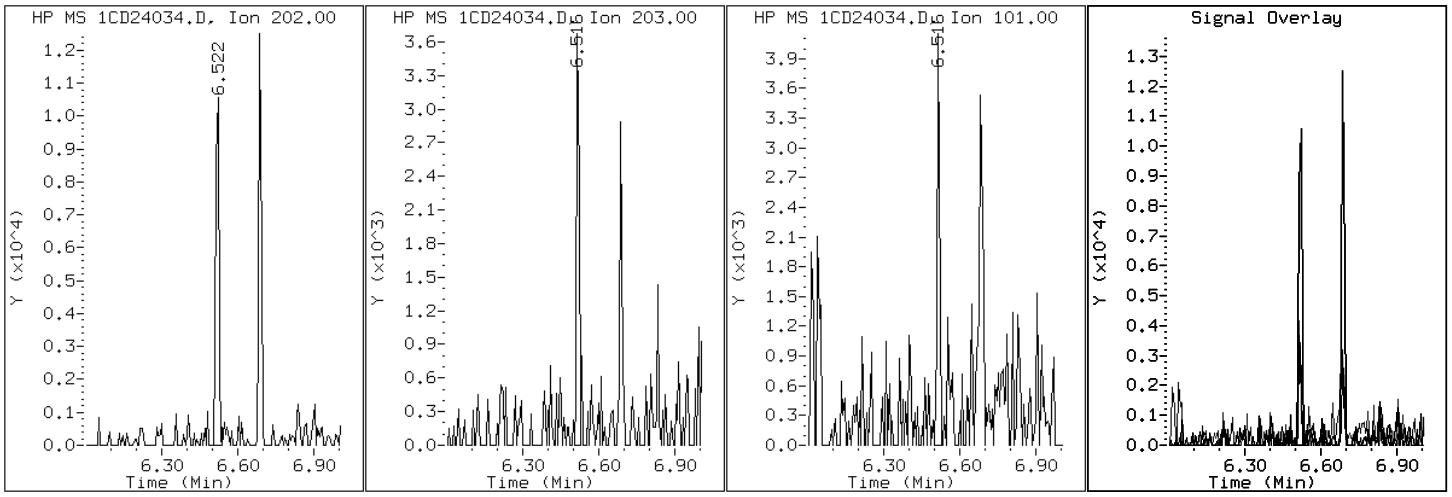
Data File: 1CD24034.D

Date: 24-APR-2013 22:27

Client ID: CV1332A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a Operator: SCC

15 Fluoranthene



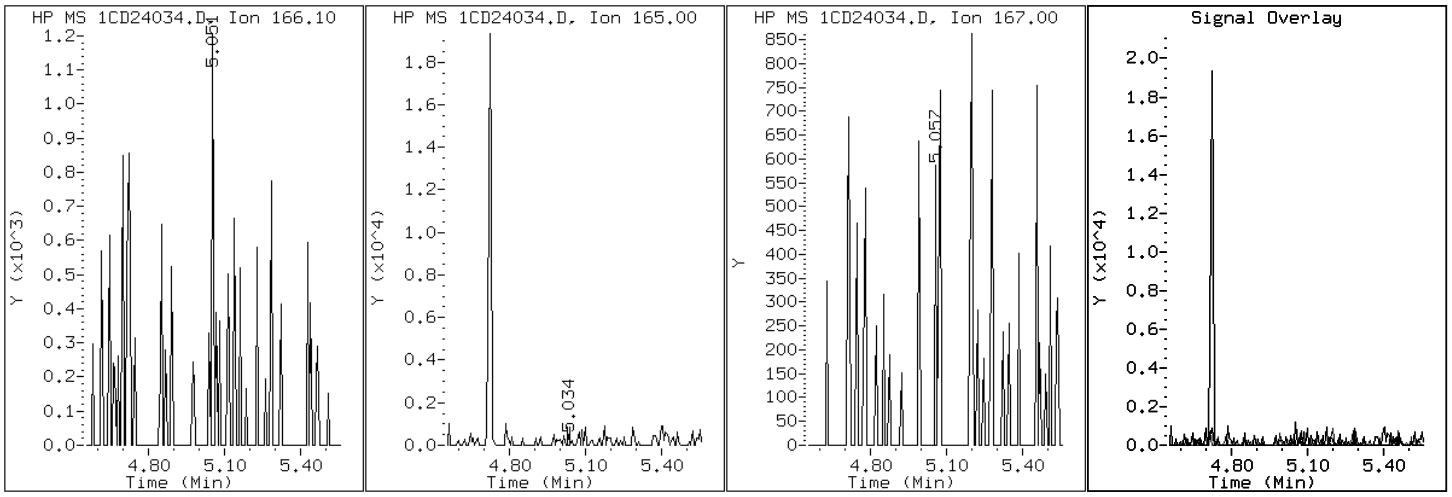
Data File: 1CD24034.D

Date: 24-APR-2013 22:27

Client ID: CV1332A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a Operator: SCC

9 Fluorene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

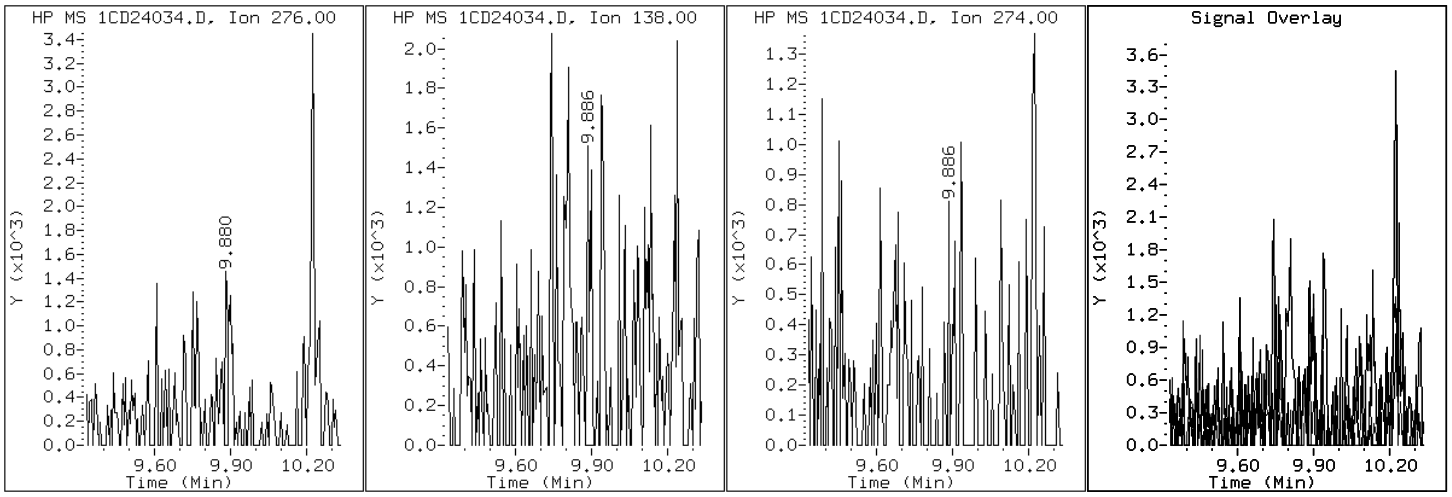
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

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



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

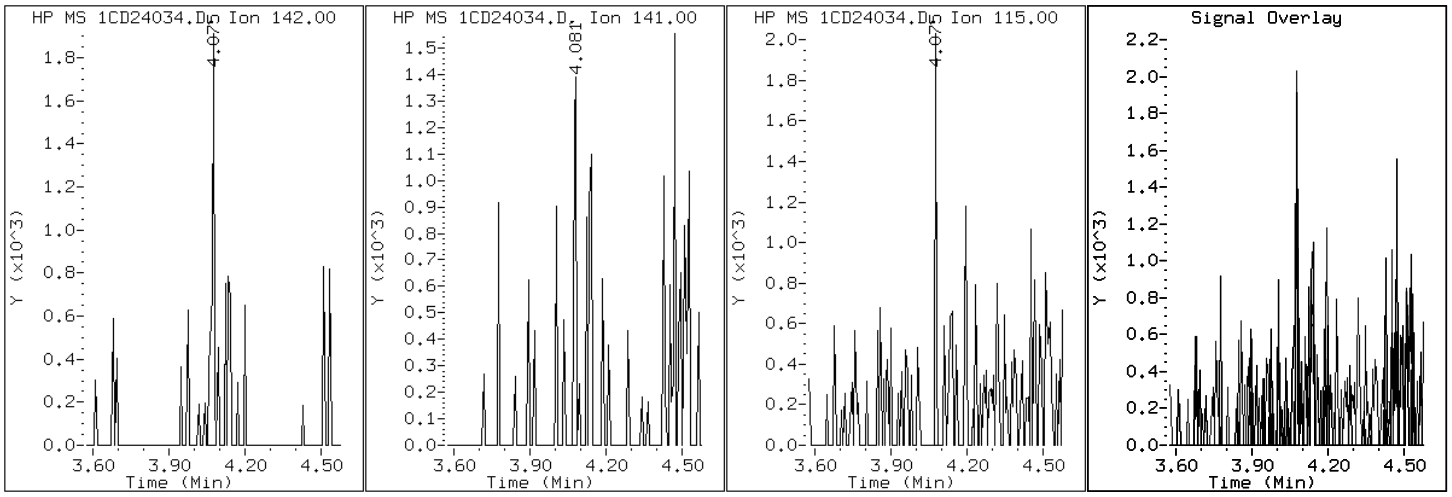
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

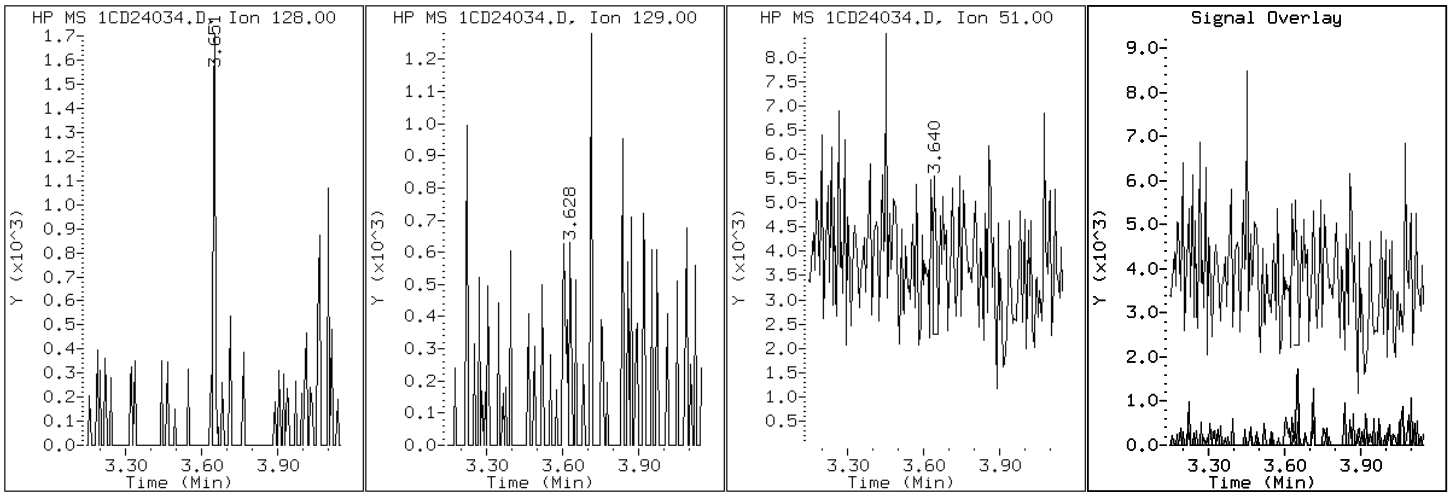
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

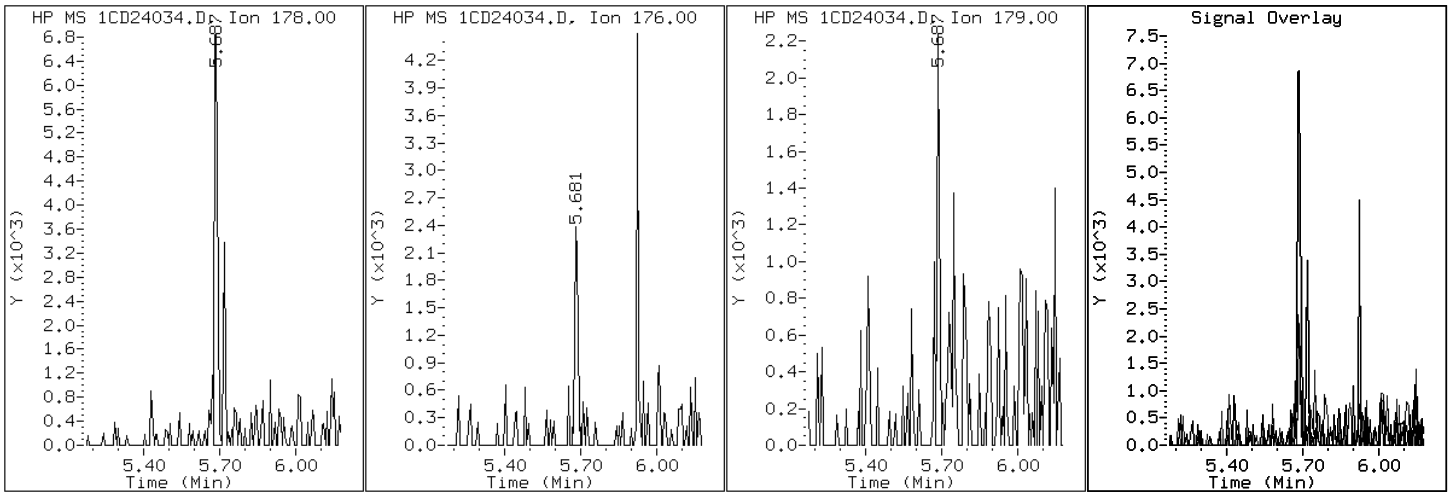
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24034.D

Date: 24-APR-2013 22:27

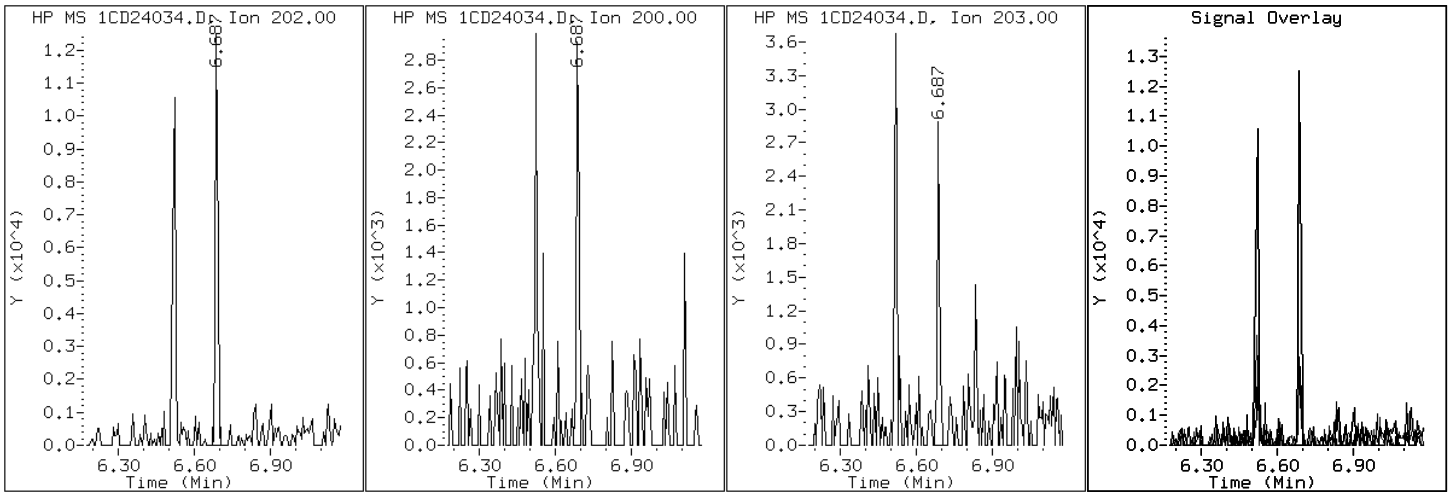
Client ID: CV1332A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-14-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24034.D
Inj. Date and Time: 24-APR-2013 22:27
Instrument ID: BSMC5973.i
Client ID: CV1332A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

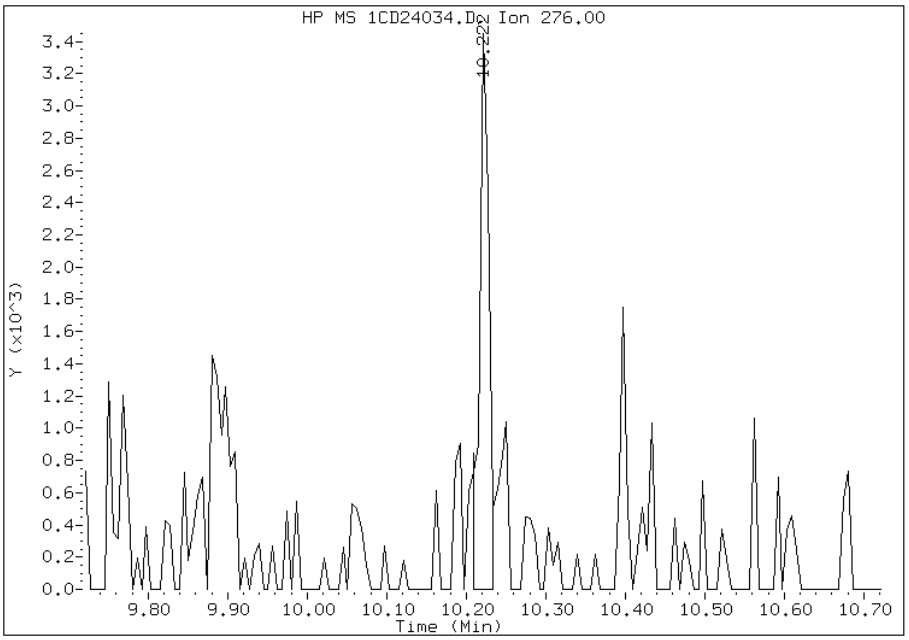
Processing Integration Results

RT: 10.22

Response: 2839

Amount: 1

Conc: 44



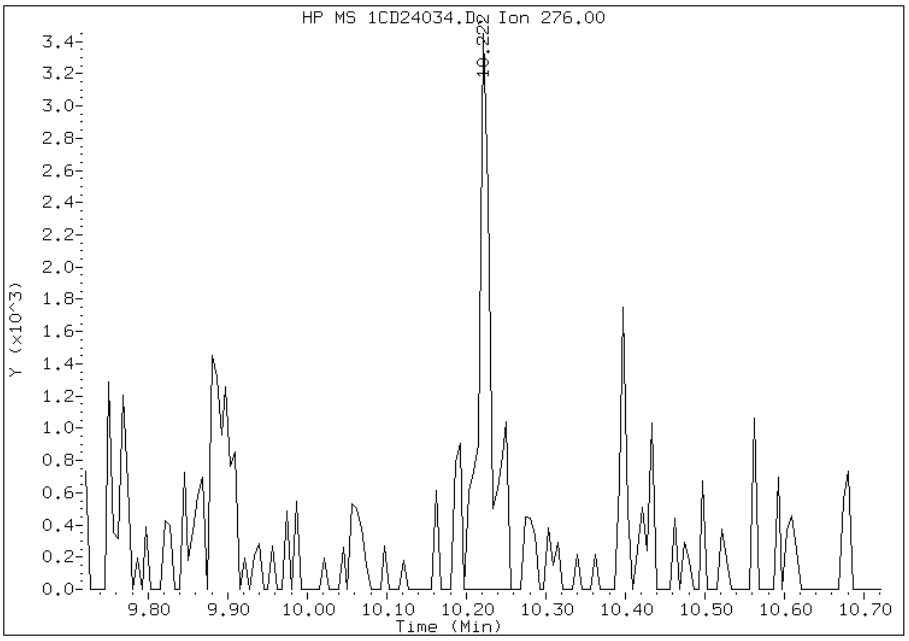
Manual Integration Results

RT: 10.22

Response: 3930

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:52
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1332B-CS | Lab Sample ID: 680-89513-15

Matrix: Solid | Lab File ID: 1CD24035.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 12:25

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.92(g) | Date Analyzed: 04/24/2013 22:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	6.0
120-12-7	Anthracene	37		10	5.1
56-55-3	Benzo[a]anthracene	130		9.6	4.7
50-32-8	Benzo[a]pyrene	130		13	6.3
205-99-2	Benzo[b]fluoranthene	210		15	7.4
191-24-2	Benzo[g,h,i]perylene	94		24	5.3
207-08-9	Benzo[k]fluoranthene	87		9.6	4.3
218-01-9	Chrysene	150		11	5.4
53-70-3	Dibenz(a,h)anthracene	40		24	4.9
206-44-0	Fluoranthene	210		24	4.8
86-73-7	Fluorene	13	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.6
90-12-0	1-Methylnaphthalene	50		48	5.3
91-57-6	2-Methylnaphthalene	100		48	8.6
91-20-3	Naphthalene	89		48	5.3
85-01-8	Phenanthrene	140		9.6	4.7
129-00-0	Pyrene	150		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24035.D
Lab Smp Id: 680-89513-A-15-A Client Smp ID: CV1332B-CS
Inj Date : 24-APR-2013 22:46
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-15-a
Misc Info : 680-89513-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 31
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/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	16.564	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	149288	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	108706	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	193623	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	20146	7.16634	575.6751
* 18 Chrysene-d12	240	7.610	7.592	(1.000)	226597	40.0000	
* 23 Perylene-d12	264	8.774	8.733	(1.000)	194274	40.0000	(H)
2 Naphthalene	128	3.645	3.646	(1.003)	4432	1.10932	89.1121(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	2044	1.29919	104.3643
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	1361	0.62023	49.8236(Q)
9 Fluorene	166	5.069	5.057	(1.073)	605	0.15960	12.8204(Q)
11 Phenanthrene	178	5.686	5.675	(1.003)	9493	1.79064	143.8426
12 Anthracene	178	5.716	5.710	(1.008)	1829	0.45585	36.6182
13 Carbazole	167	5.827	5.822	(1.028)	1906	0.35769	28.7330(Q)
15 Fluoranthene	202	6.515	6.504	(1.149)	16569	2.56308	205.8928

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.686	6.675	(0.879)	12296	1.83737	147.5962
17 Benzo(a)anthracene	228	7.604	7.581	(0.999)	10251	1.67246	134.3493
19 Chrysene	228	7.633	7.610	(1.003)	11835	1.82904	146.9275
20 Benzo(b)fluoranthene	252	8.433	8.410	(0.961)	14288	2.65921	213.6155(H)
21 Benzo(k)fluoranthene	252	8.457	8.428	(0.964)	5652	1.08111	86.8460(H)
22 Benzo(a)pyrene	252	8.721	8.686	(0.994)	7121	1.55732	125.0998(QH)
24 Indeno(1,2,3-cd)pyrene	276	9.886	9.833	(1.127)	4655	1.48006	118.8934(H)
25 Dibenzo(a,h)anthracene	278	9.915	9.851	(1.130)	2349	0.49863	40.0554(QMH)
26 Benzo(g,h,i)perylene	276	10.239	10.163	(1.167)	5743	1.17076	94.0476(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: 1CD24035.D

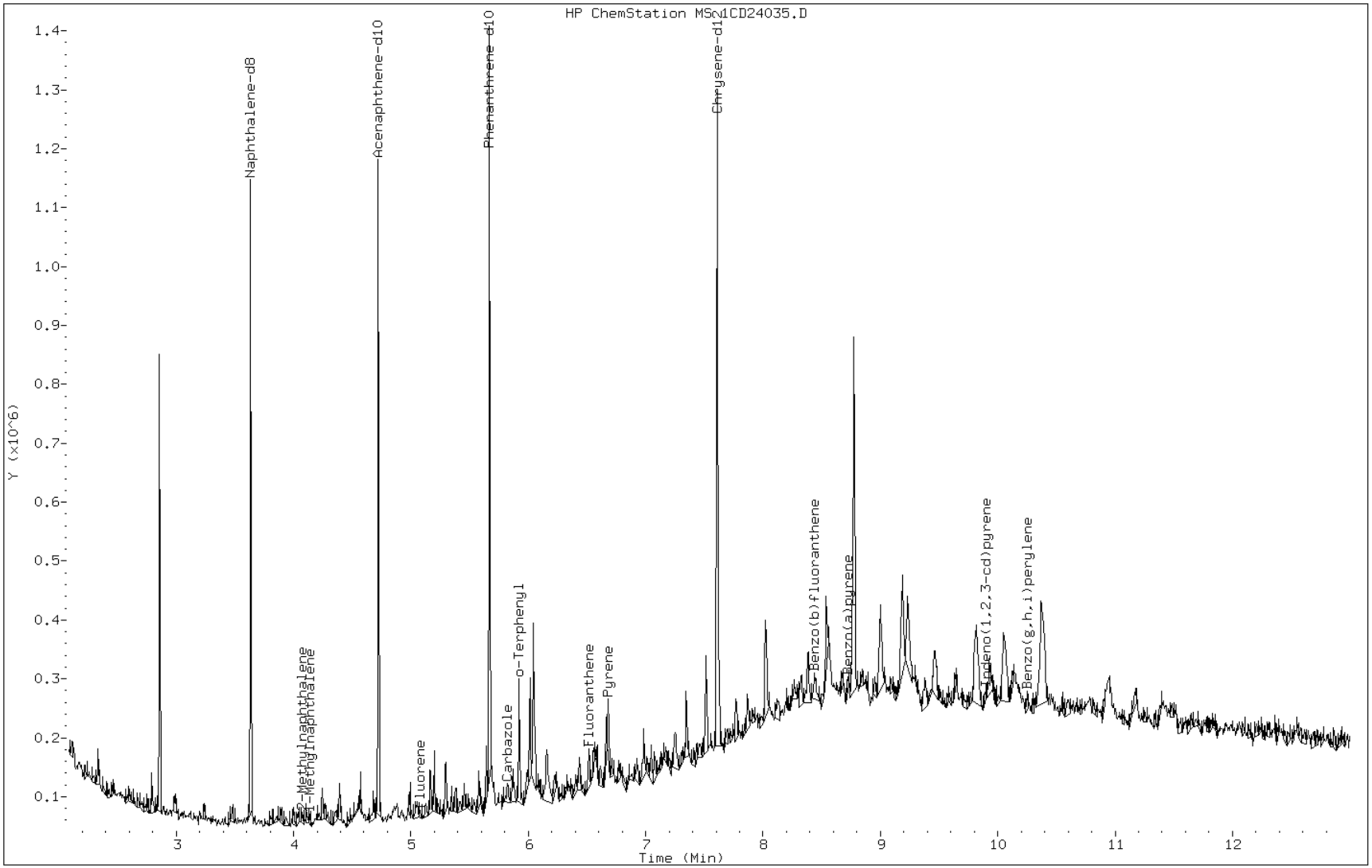
Date: 24-APR-2013 22:46

Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

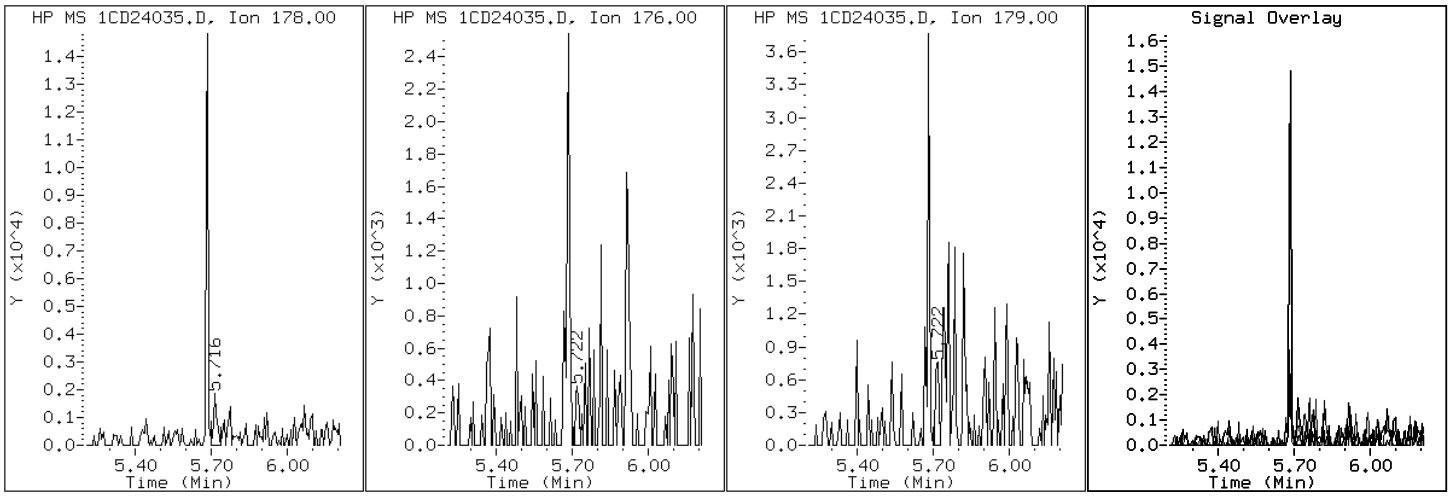
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

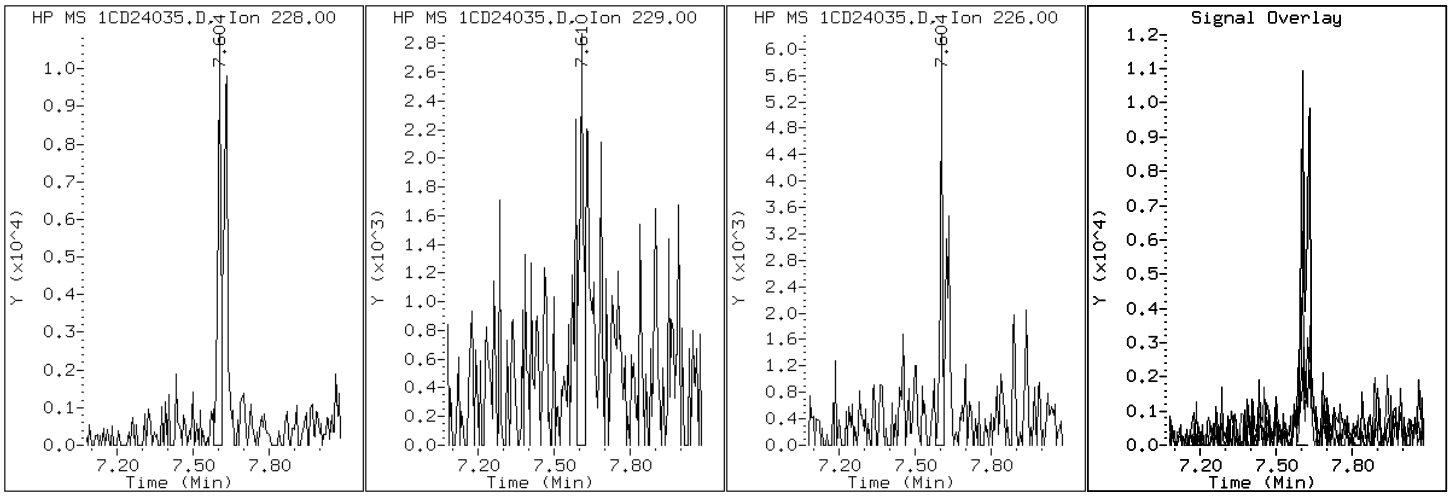
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

17 Benzo(a)anthracene



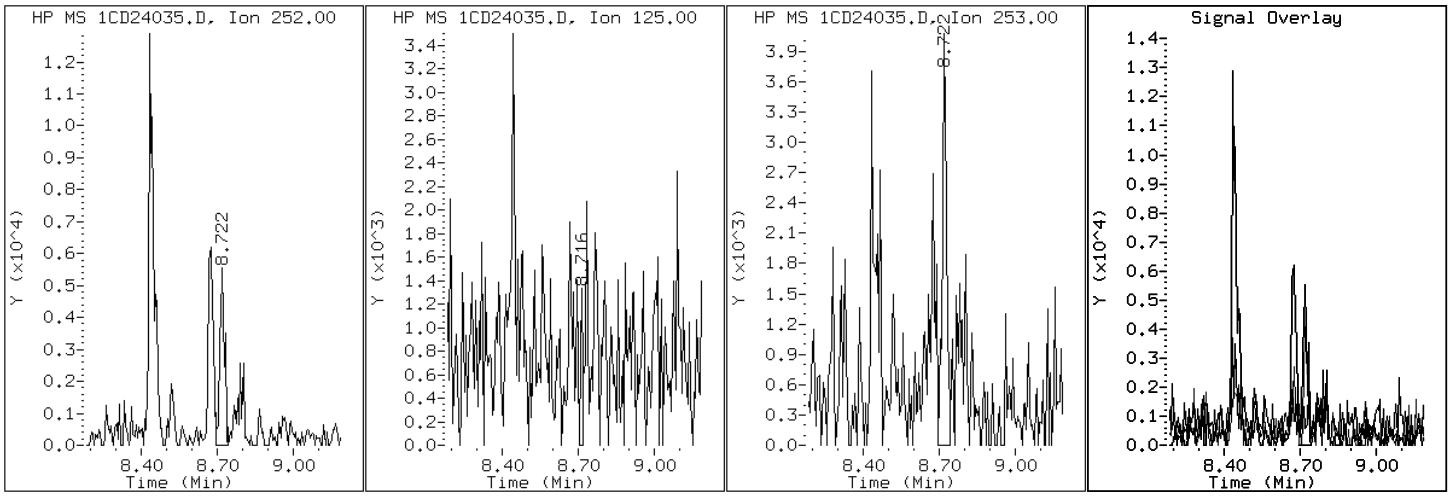
Data File: 1CD24035.D

Date: 24-APR-2013 22:46

Client ID: CV1332B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

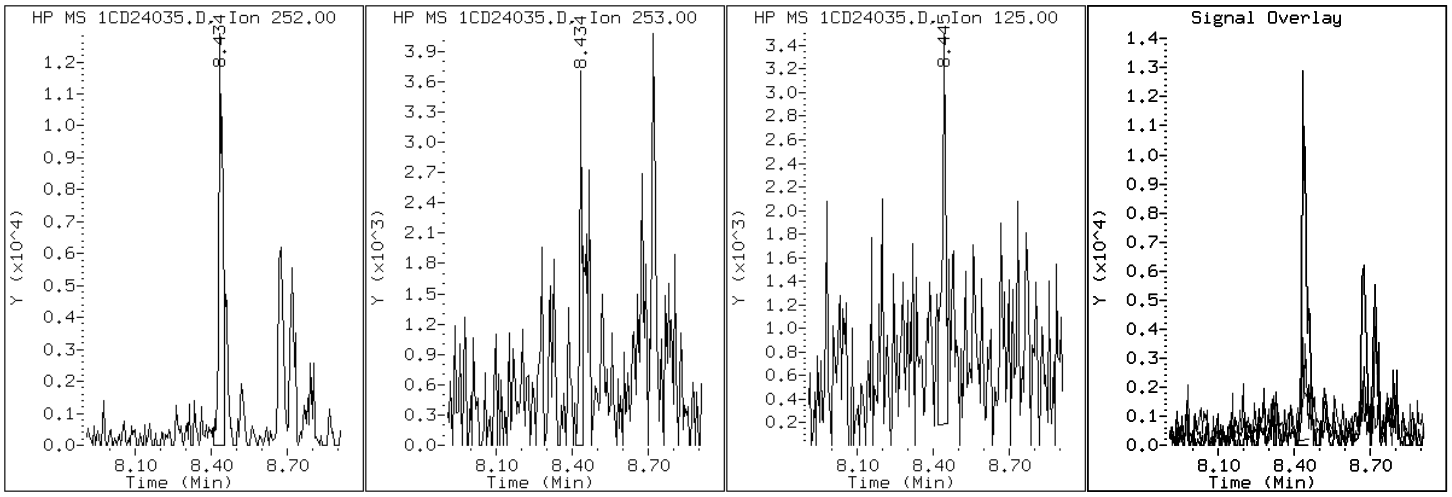
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

20 Benzo(b)fluoranthene



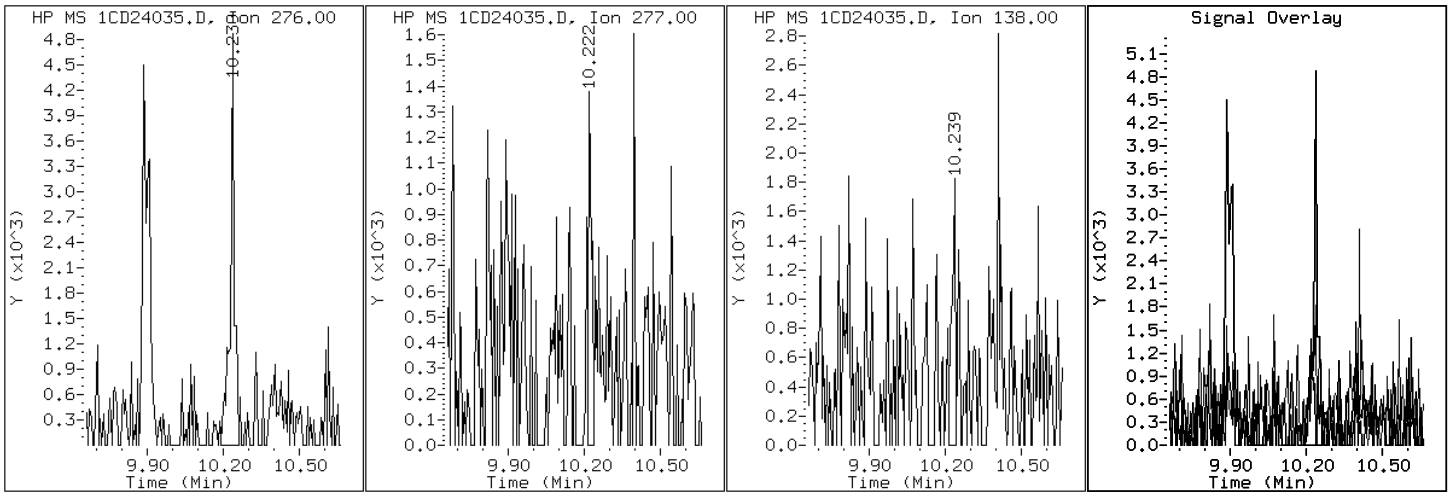
Data File: 1CD24035.D

Date: 24-APR-2013 22:46

Client ID: CV1332B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

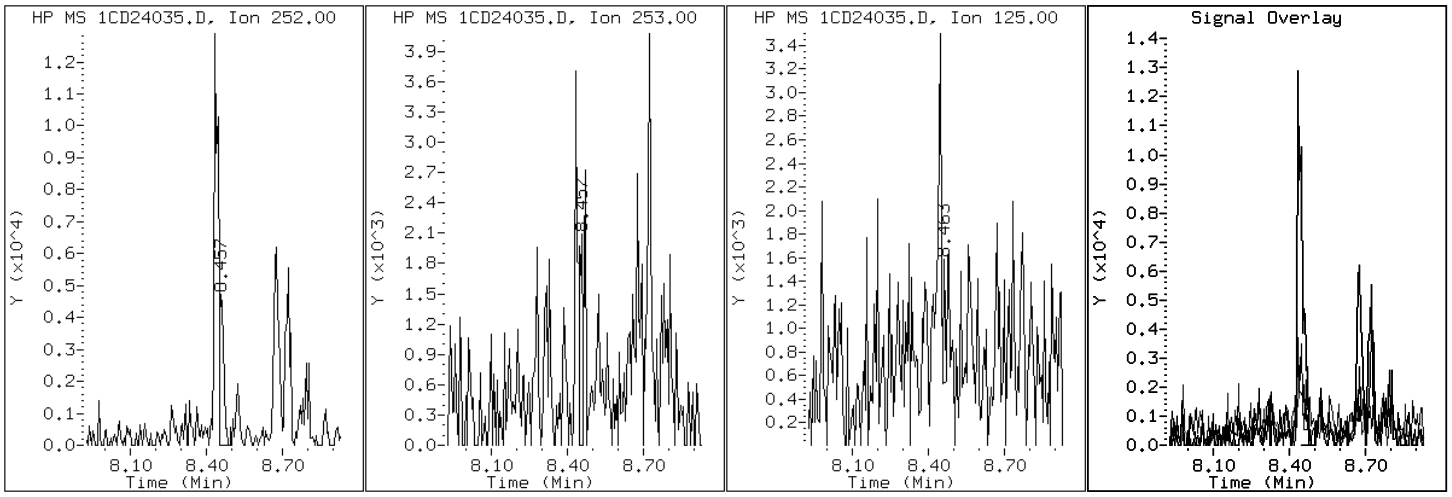
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



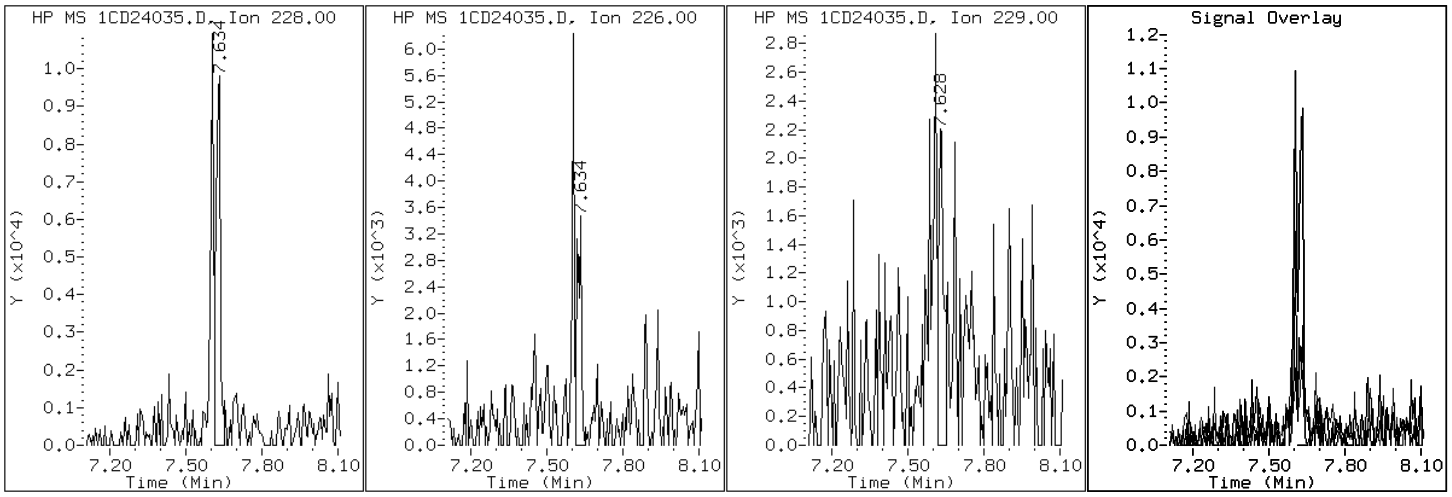
Data File: 1CD24035.D

Date: 24-APR-2013 22:46

Client ID: CV1332B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a Operator: SCC

19 Chrysene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

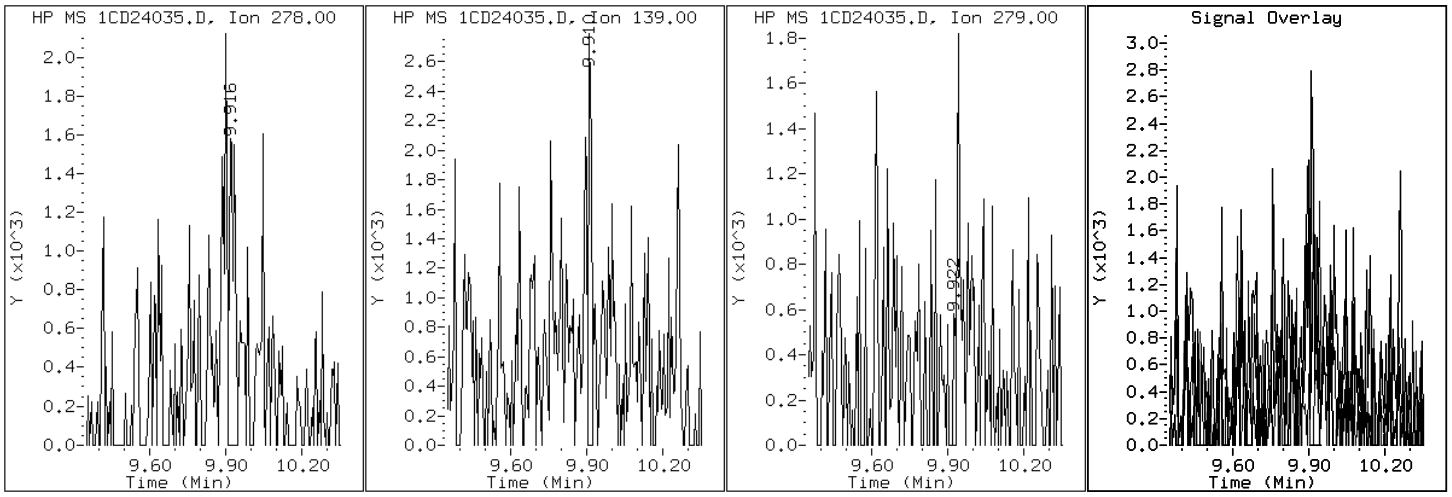
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

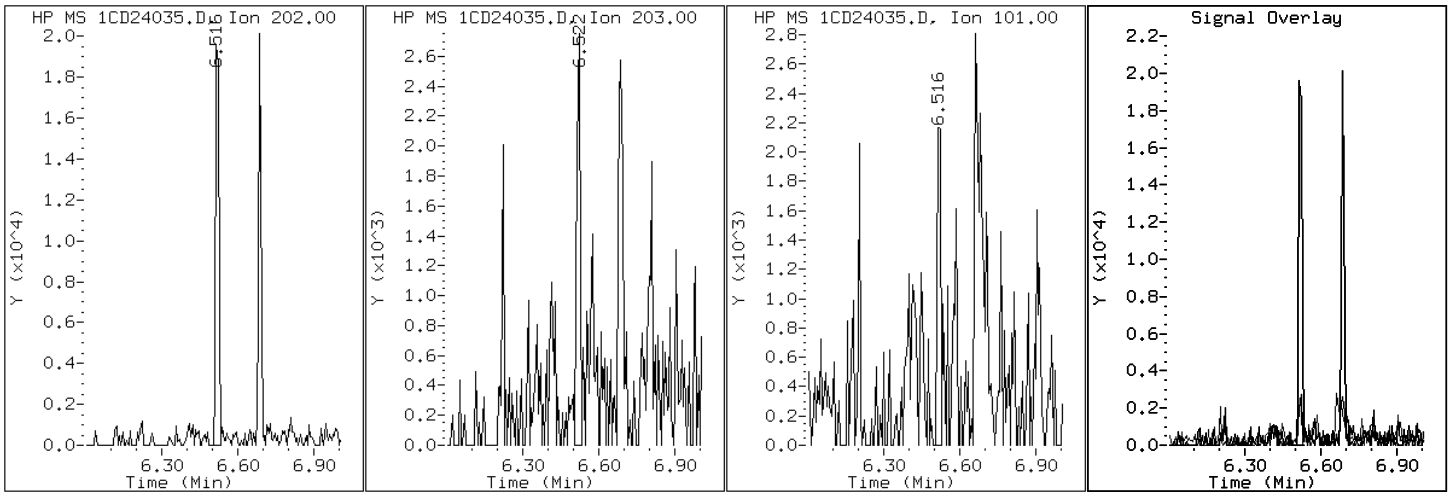
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

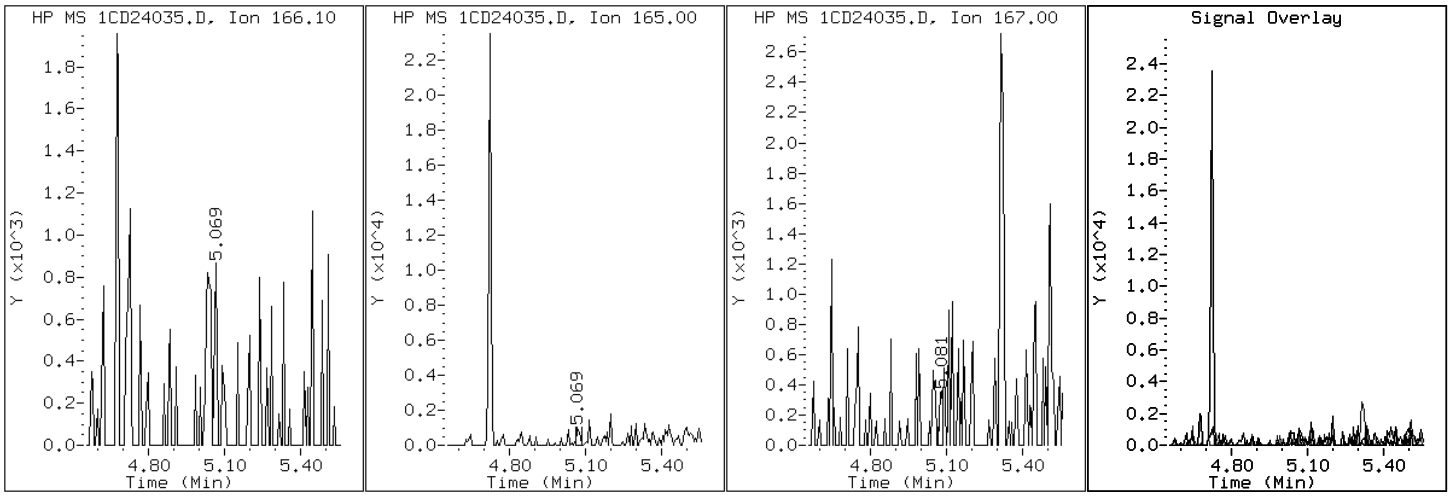
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

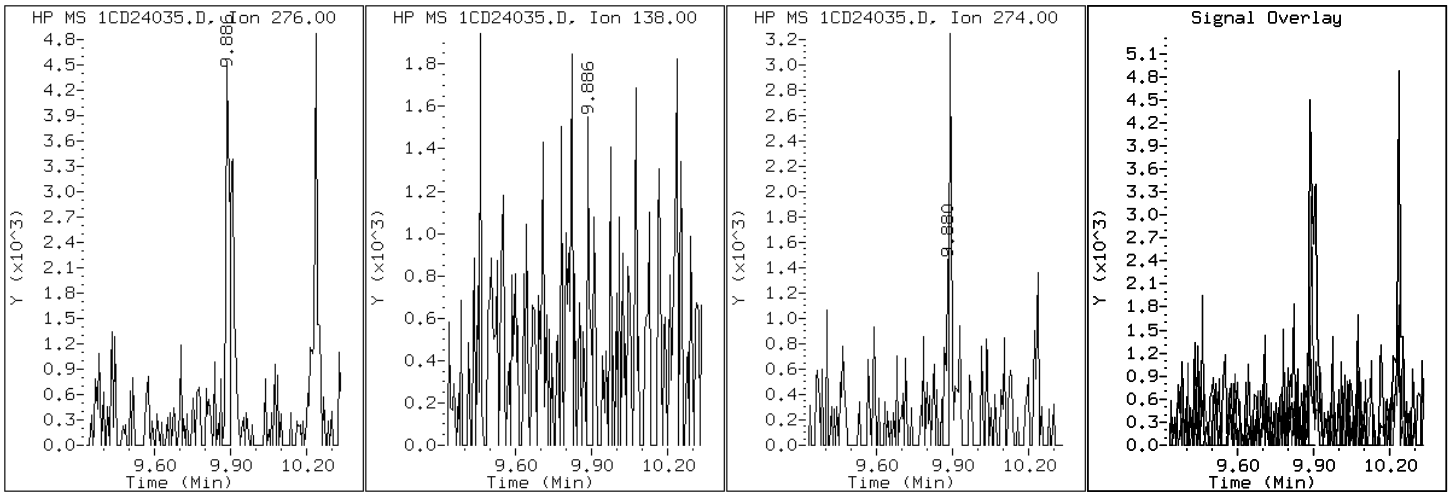
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

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



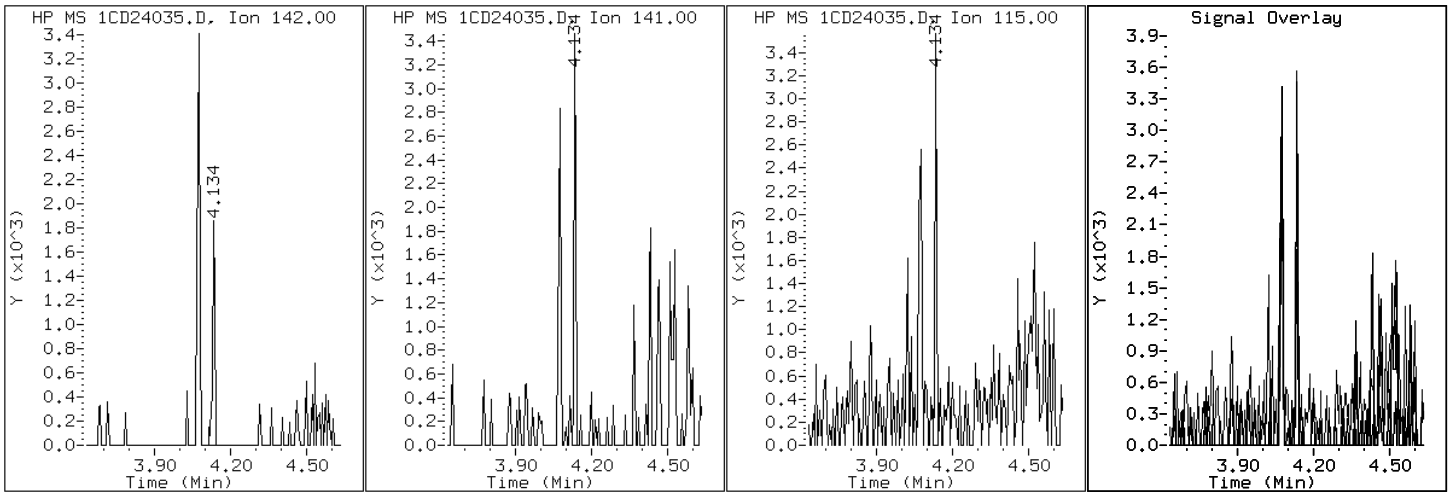
Data File: 1CD24035.D

Date: 24-APR-2013 22:46

Client ID: CV1332B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

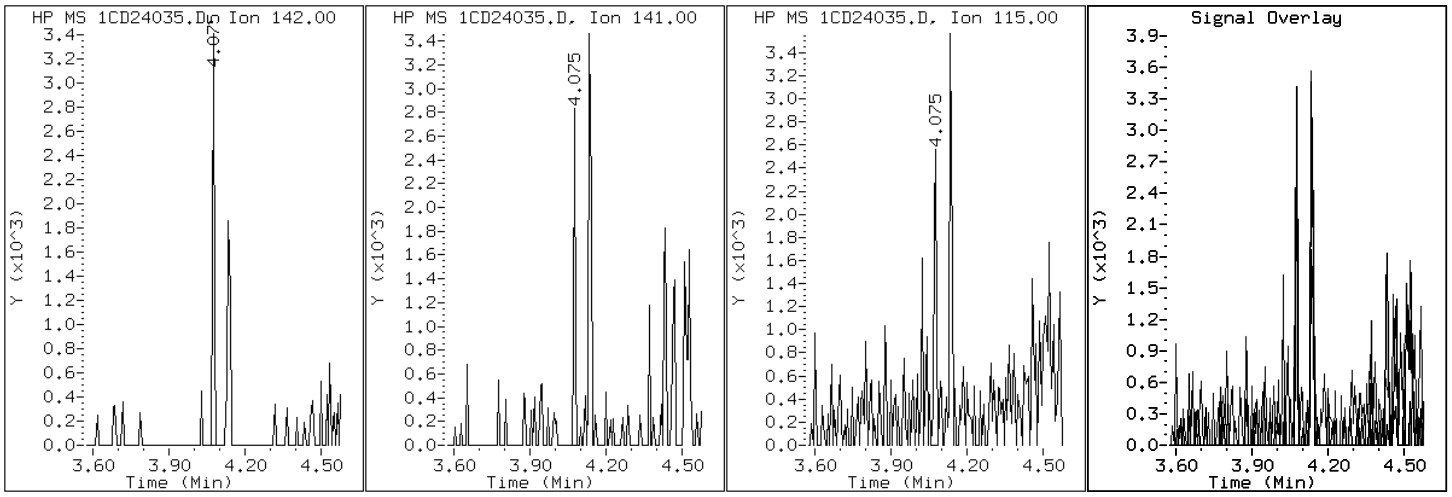
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

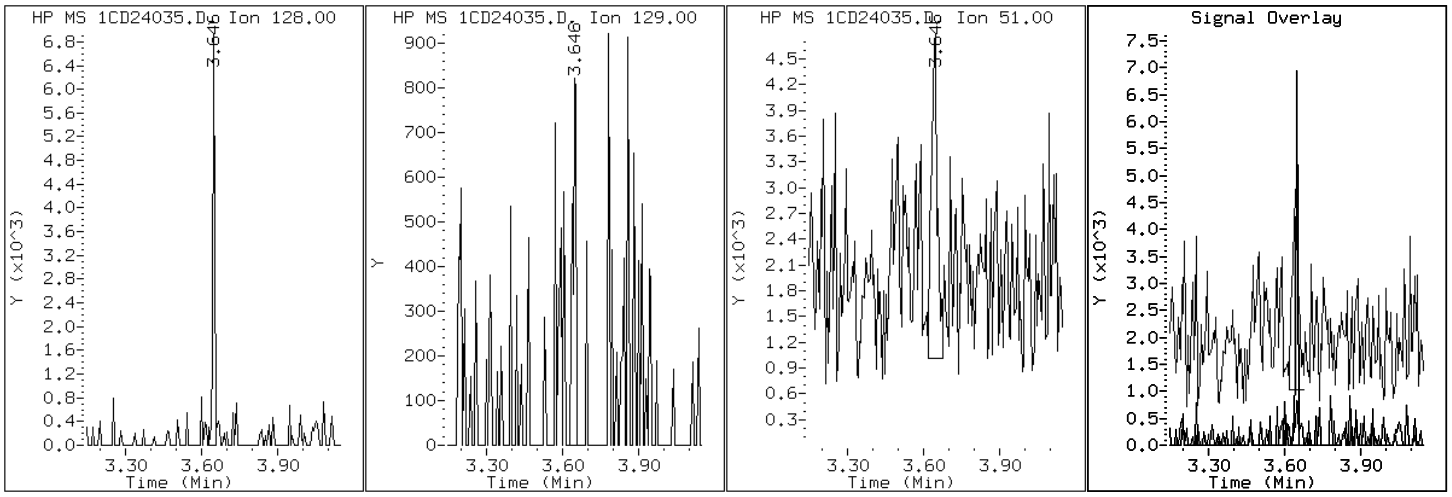
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

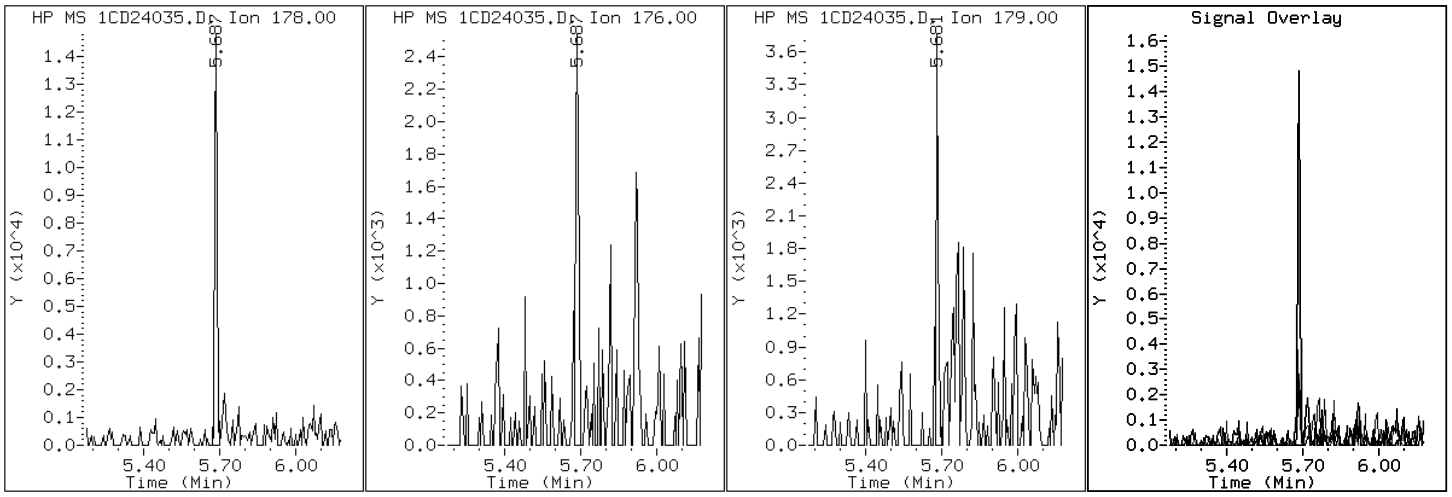
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24035.D

Date: 24-APR-2013 22:46

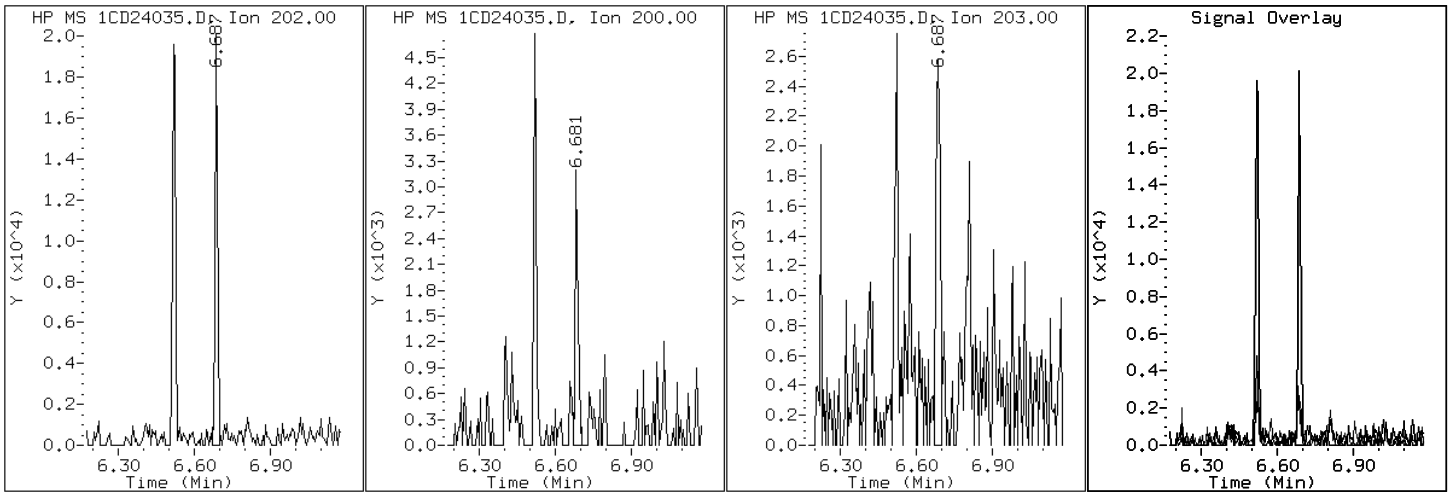
Client ID: CV1332B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-15-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24035.D
Inj. Date and Time: 24-APR-2013 22:46
Instrument ID: BSMC5973.i
Client ID: CV1332B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

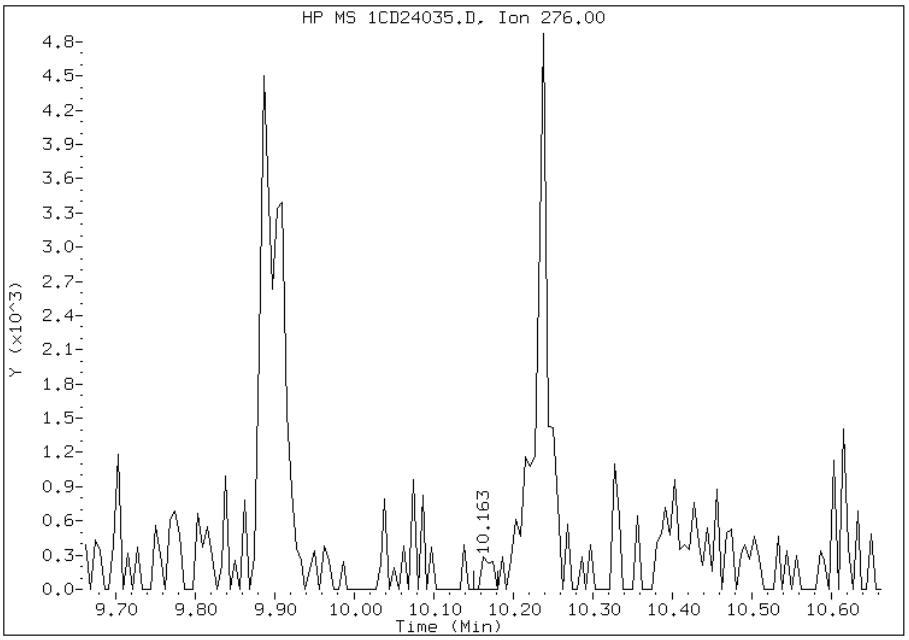
Processing Integration Results

RT: 10.16

Response: 269

Amount: 0

Conc: 4



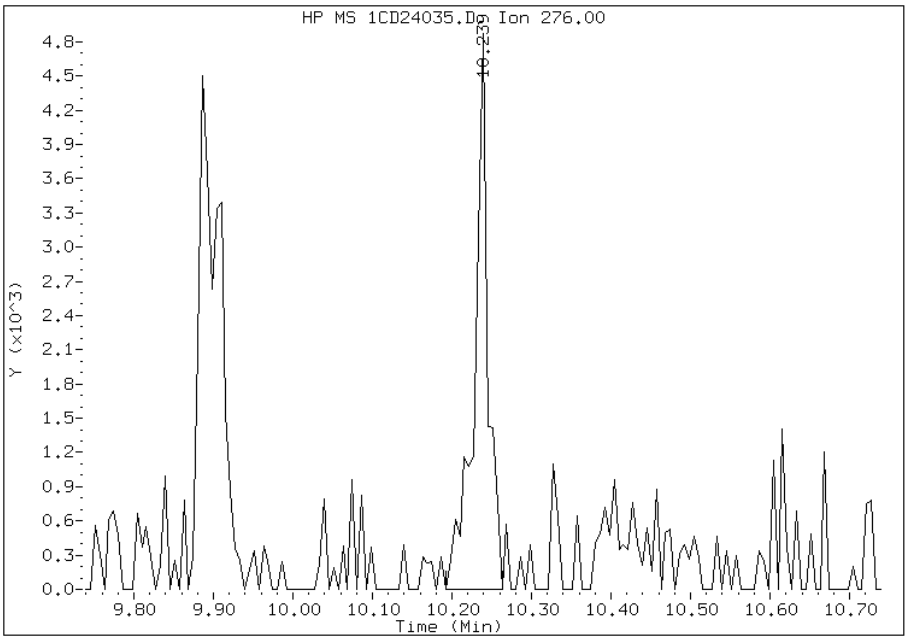
Manual Integration Results

RT: 10.24

Response: 5743

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24035.D
Inj. Date and Time: 24-APR-2013 22:46
Instrument ID: BSMC5973.i
Client ID: CV1332B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

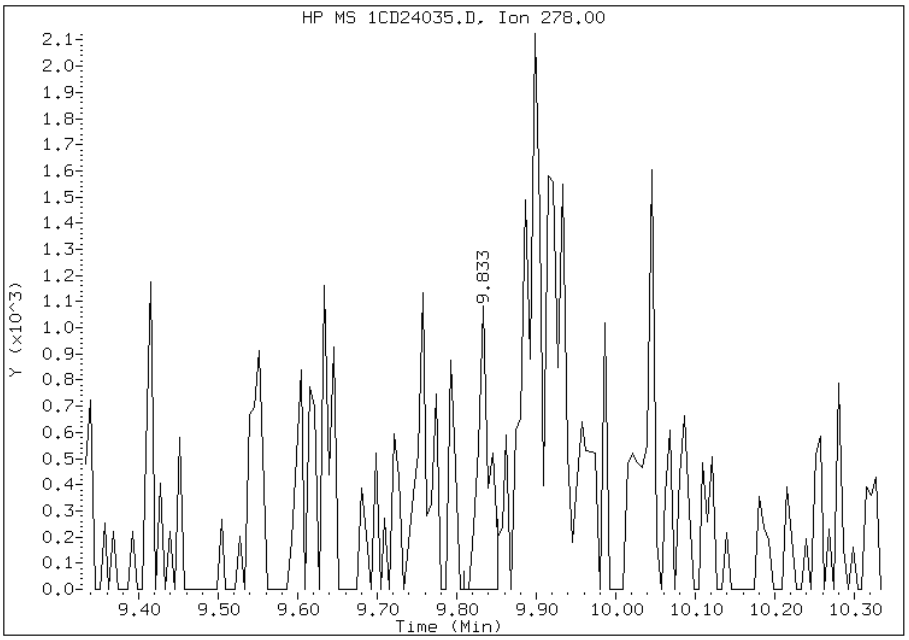
Processing Integration Results

RT: 9.83

Response: 1046

Amount: 0

Conc: 18



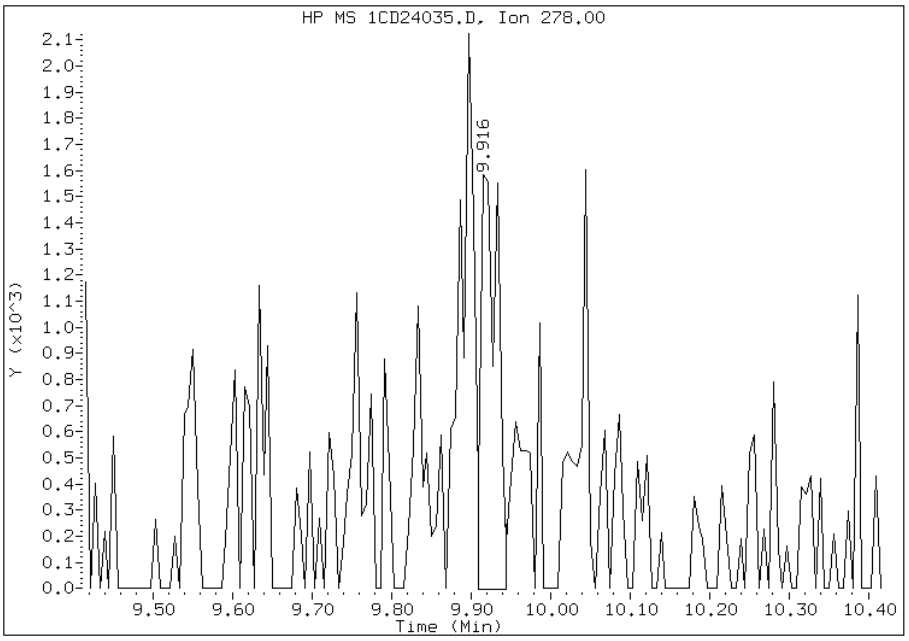
Manual Integration Results

RT: 9.92

Response: 2349

Amount: 0

Conc: 40



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:54
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1334A-CS | Lab Sample ID: 680-89513-16

Matrix: Solid | Lab File ID: 1CD24038.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 12:45

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.81(g) | Date Analyzed: 04/24/2013 23:41

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	76		49	6.1
120-12-7	Anthracene	51		10	5.1
56-55-3	Benzo[a]anthracene	170		9.8	4.8
50-32-8	Benzo[a]pyrene	200		13	6.4
205-99-2	Benzo[b]fluoranthene	310		15	7.5
191-24-2	Benzo[g,h,i]perylene	180		24	5.4
207-08-9	Benzo[k]fluoranthene	120		9.8	4.4
218-01-9	Chrysene	180		11	5.5
53-70-3	Dibenz(a,h)anthracene	39		24	5.0
206-44-0	Fluoranthene	250		24	4.9
86-73-7	Fluorene	11	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	170		24	8.7
90-12-0	1-Methylnaphthalene	34	J	49	5.4
91-57-6	2-Methylnaphthalene	71		49	8.7
91-20-3	Naphthalene	31	J	49	5.4
85-01-8	Phenanthrene	170		9.8	4.8
129-00-0	Pyrene	250		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24038.D
Lab Smp Id: 680-89513-A-16-A Client Smp ID: CV1334A-CS
Inj Date : 24-APR-2013 23:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-16-a
Misc Info : 680-89513-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 34
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.810	Weight Extracted
M	17.094	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	165032	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	116719	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	215155	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	17294	5.53617	450.8881
* 18 Chrysene-d12	240	7.615	7.592	(1.000)	217780	40.0000	(H)
* 23 Perylene-d12	264	8.786	8.733	(1.000)	200814	40.0000	(H)
2 Naphthalene	128	3.645	3.646	(1.003)	1496	0.38252	31.1540(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	764	0.86667	70.5851(Q)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	859	0.41521	33.8163(Q)
5 Acenaphthylene	152	4.639	4.634	(0.983)	3238	0.93487	76.1392
9 Fluorene	166	5.063	5.057	(1.072)	550	0.13476	10.9751(QM)
11 Phenanthrene	178	5.686	5.675	(1.003)	12186	2.06857	168.4729
12 Anthracene	178	5.727	5.710	(1.010)	3158	0.63039	51.3412
13 Carbazole	167	5.833	5.822	(1.029)	2628	0.44382	36.1466

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.521	6.504	(1.150)	22253	3.10322	252.7384
16 Pyrene	202	6.686	6.675	(0.878)	19665	3.05747	249.0123(H)
17 Benzo(a)anthracene	228	7.604	7.581	(0.998)	12447	2.14299	174.5335(M)
19 Chrysene	228	7.633	7.610	(1.002)	13736	2.20878	179.8915(H)
20 Benzo(b)fluoranthene	252	8.445	8.410	(0.961)	21467	3.86521	314.7984(MH)
21 Benzo(k)fluoranthene	252	8.456	8.428	(0.963)	7800	1.44339	117.5553(QMH)
22 Benzo(a)pyrene	252	8.727	8.686	(0.993)	12537	2.49645	203.3207(MH)
24 Indeno(1,2,3-cd)pyrene	276	9.903	9.833	(1.127)	8268	2.09911	170.9598(MH)
25 Dibenzo(a,h)anthracene	278	9.927	9.851	(1.130)	2337	0.47993	39.0874(QH)
26 Benzo(g,h,i)perylene	276	10.239	10.163	(1.165)	11375	2.24337	182.7092(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: 1CD24038.D

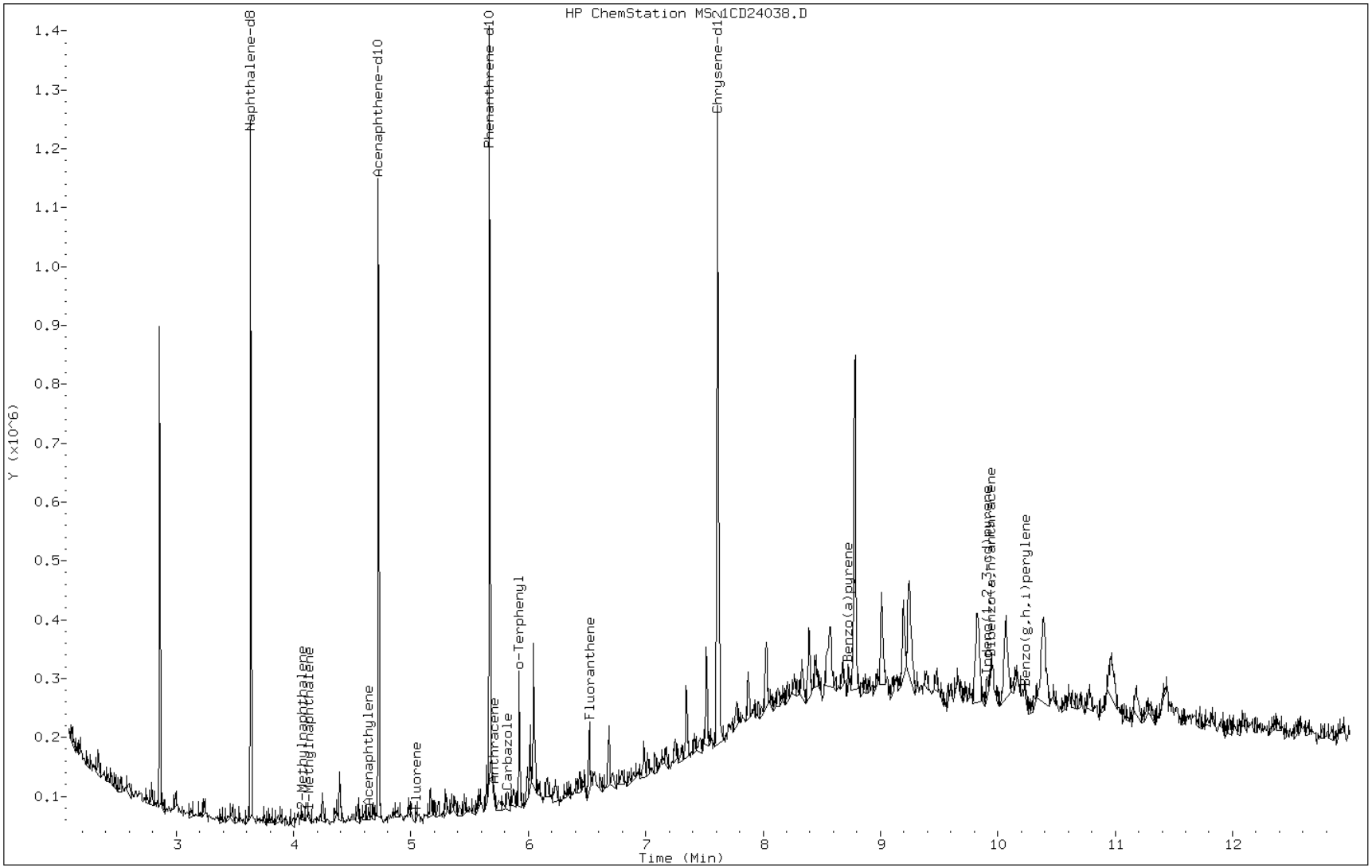
Date: 24-APR-2013 23:41

Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC



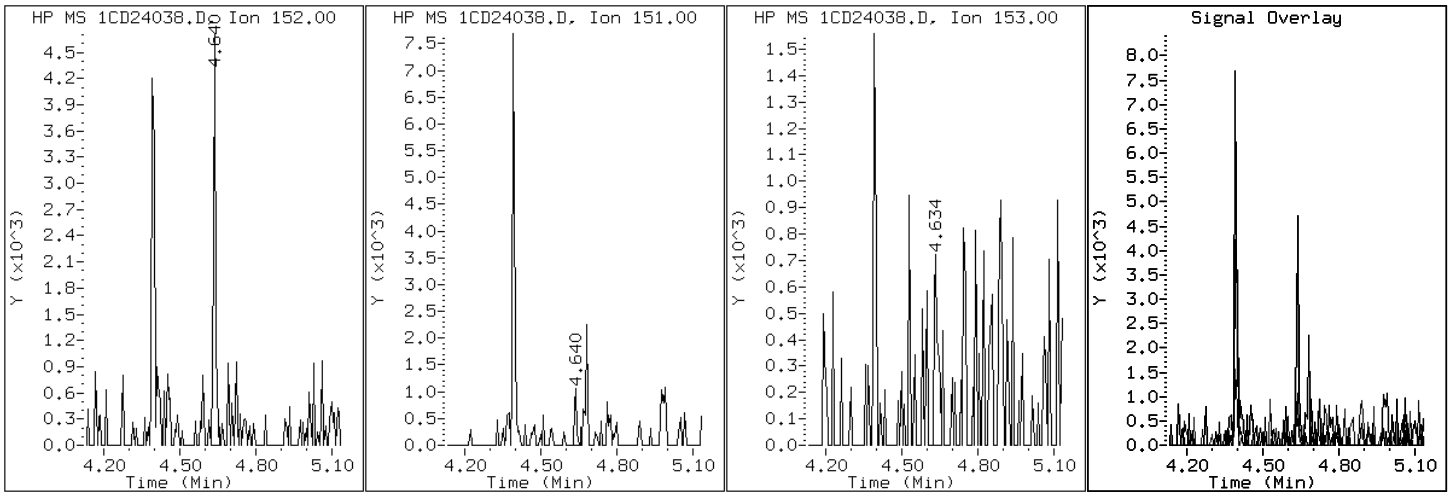
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

5 Acenaphthylene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

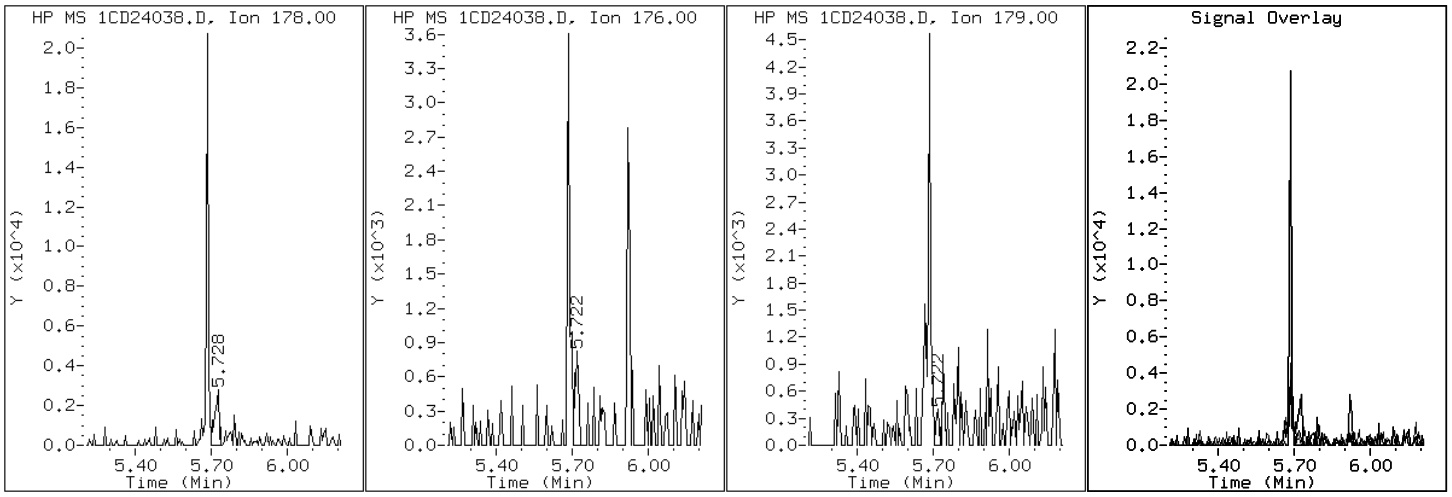
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

12 Anthracene



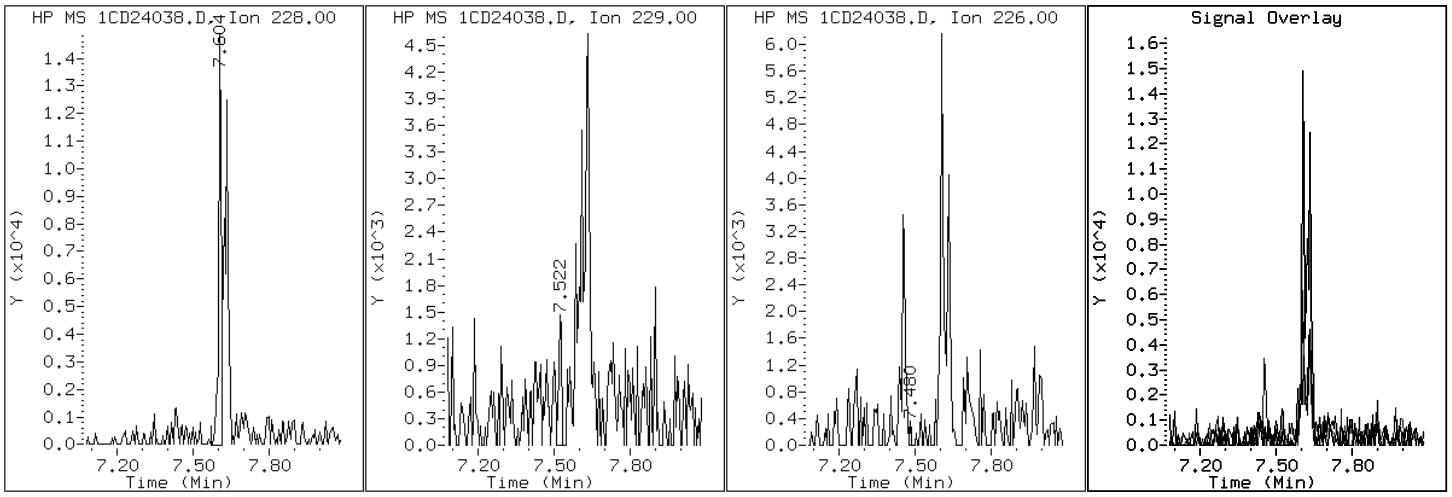
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

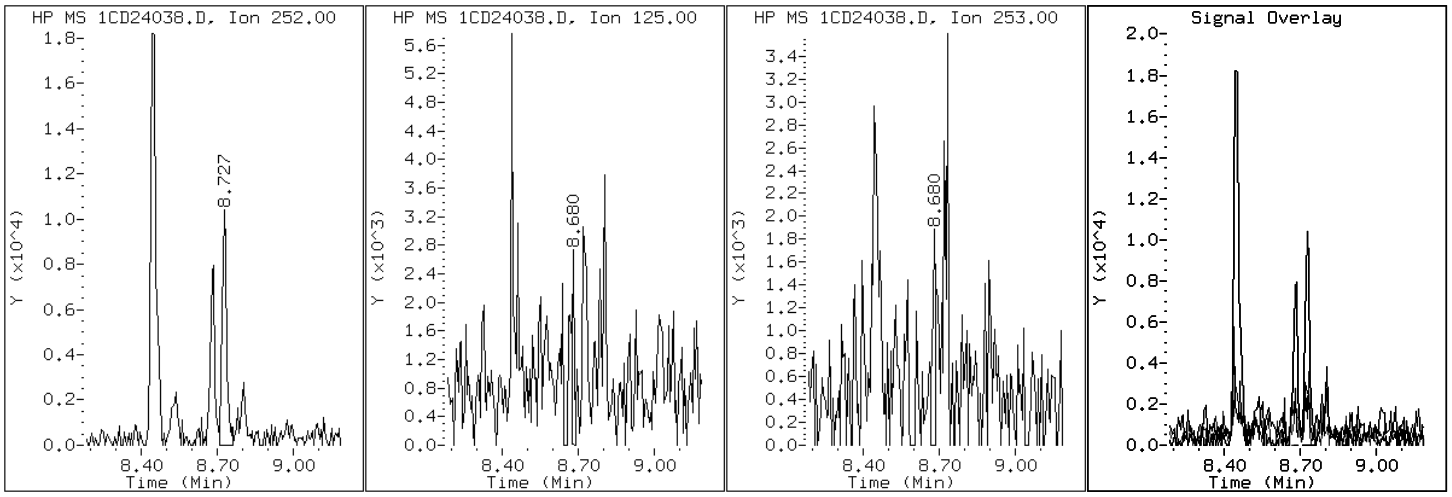
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

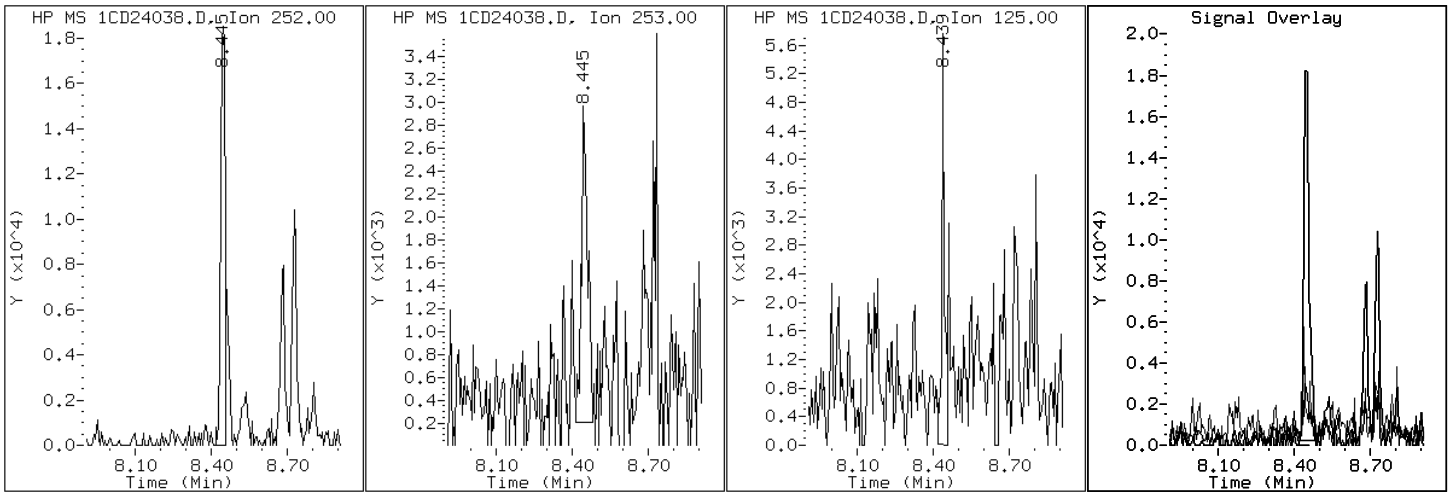
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

20 Benzo(b)fluoranthene



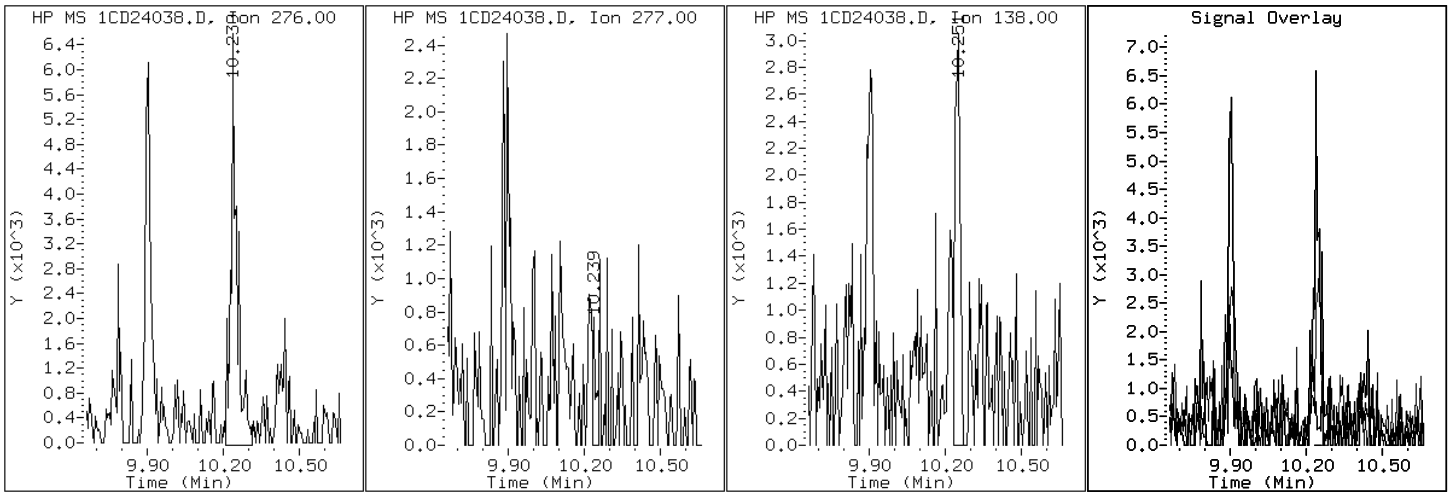
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

26 Benzo(g,h,i)perylene



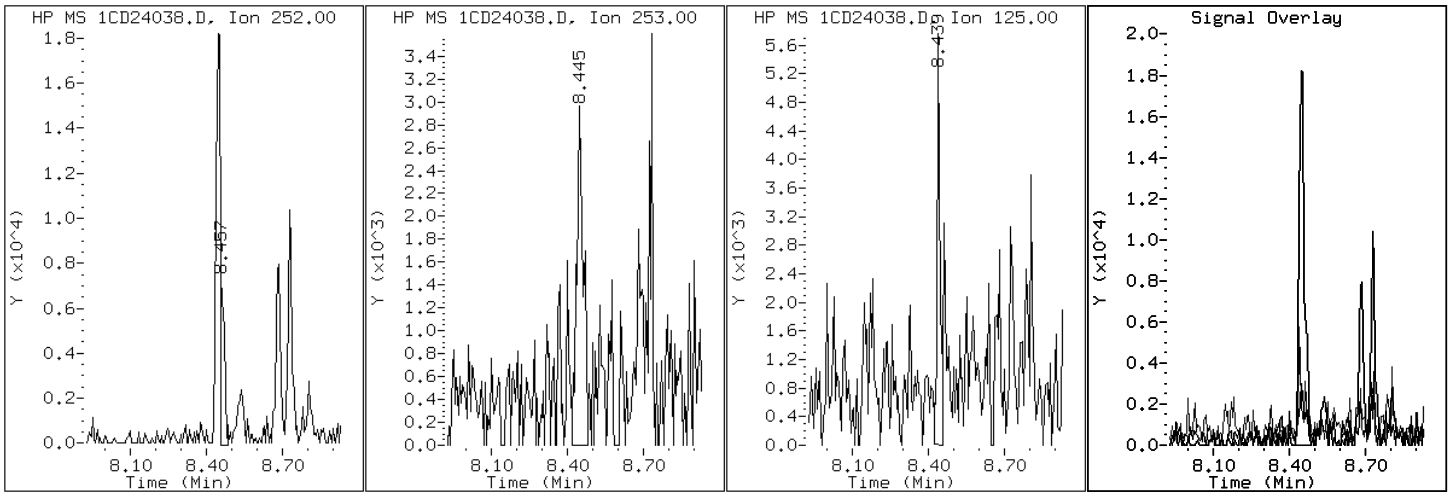
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

21 Benzo(k)fluoranthene



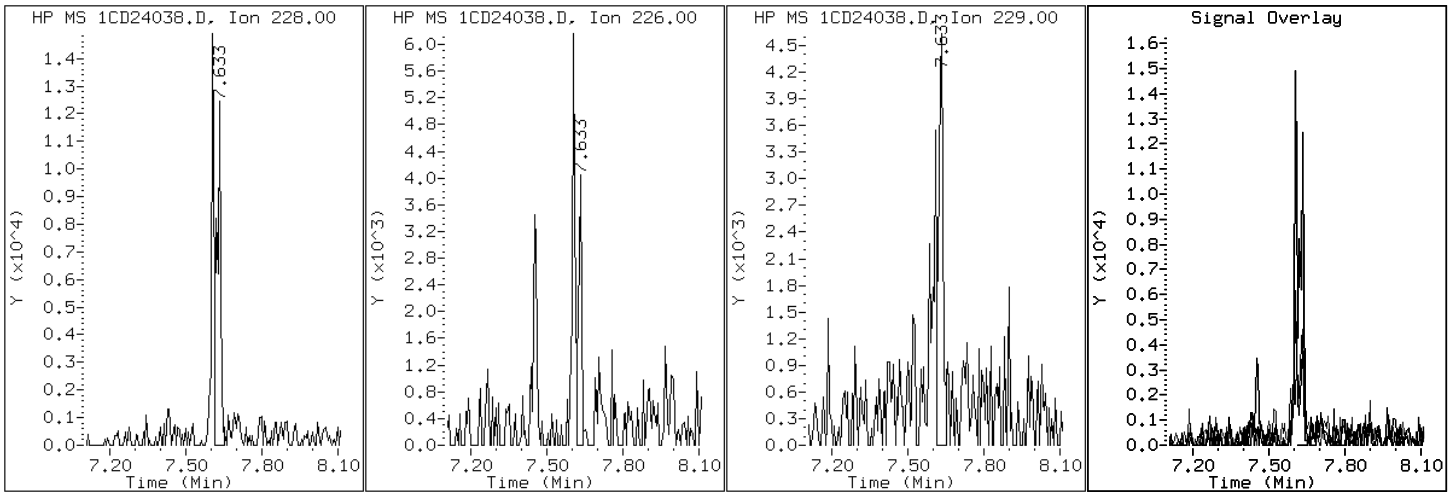
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

19 Chrysene



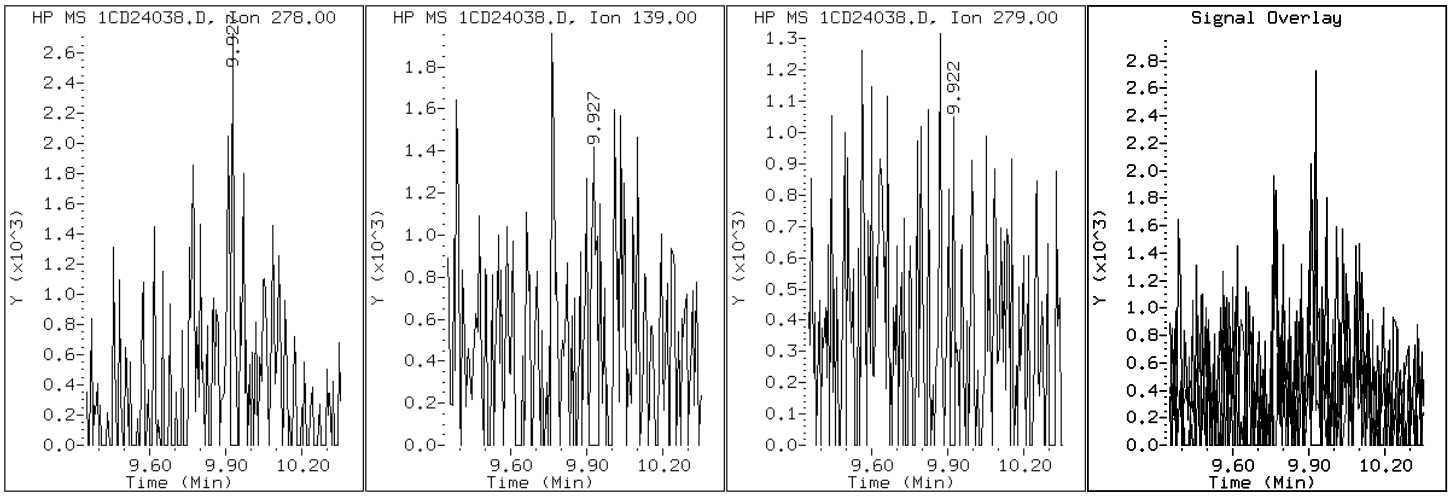
Data File: 1CD24038.D

Date: 24-APR-2013 23:41

Client ID: CV1334A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

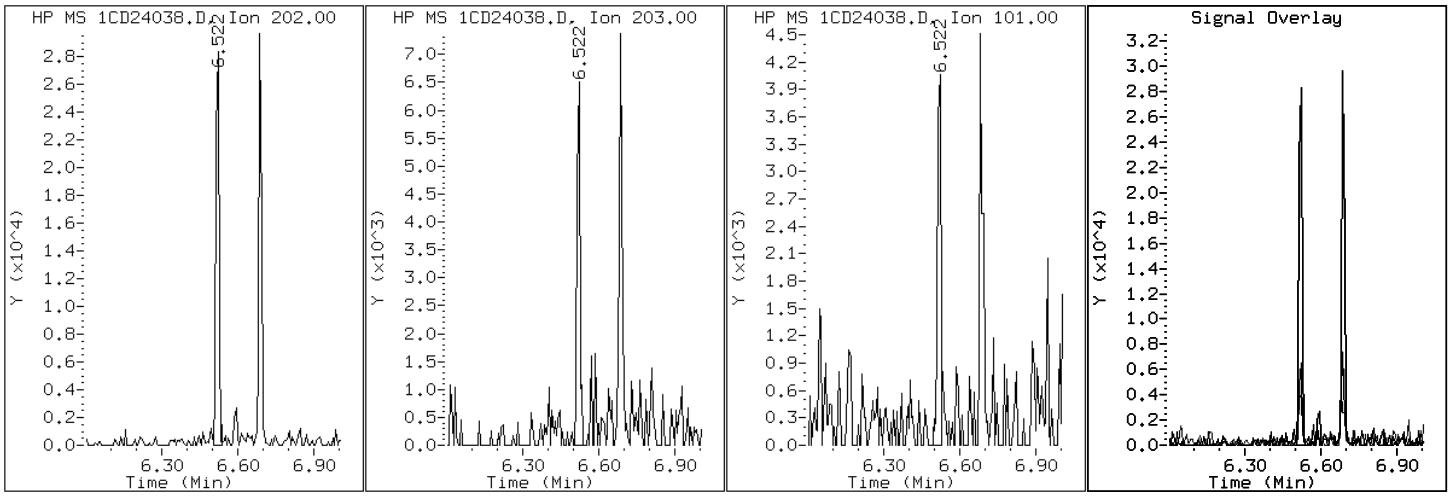
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

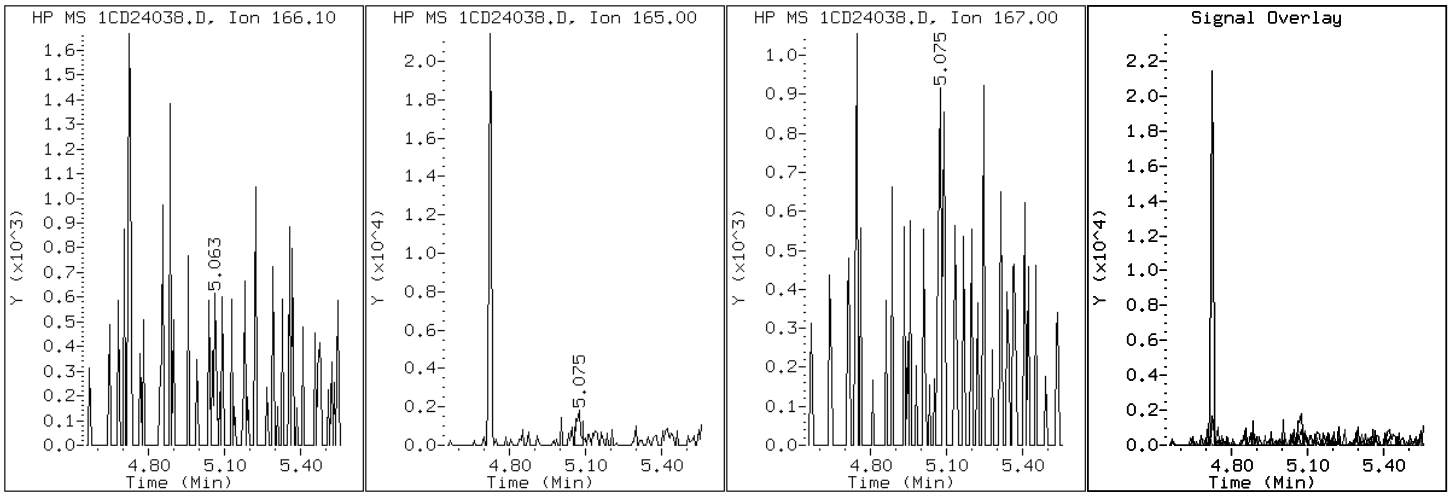
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

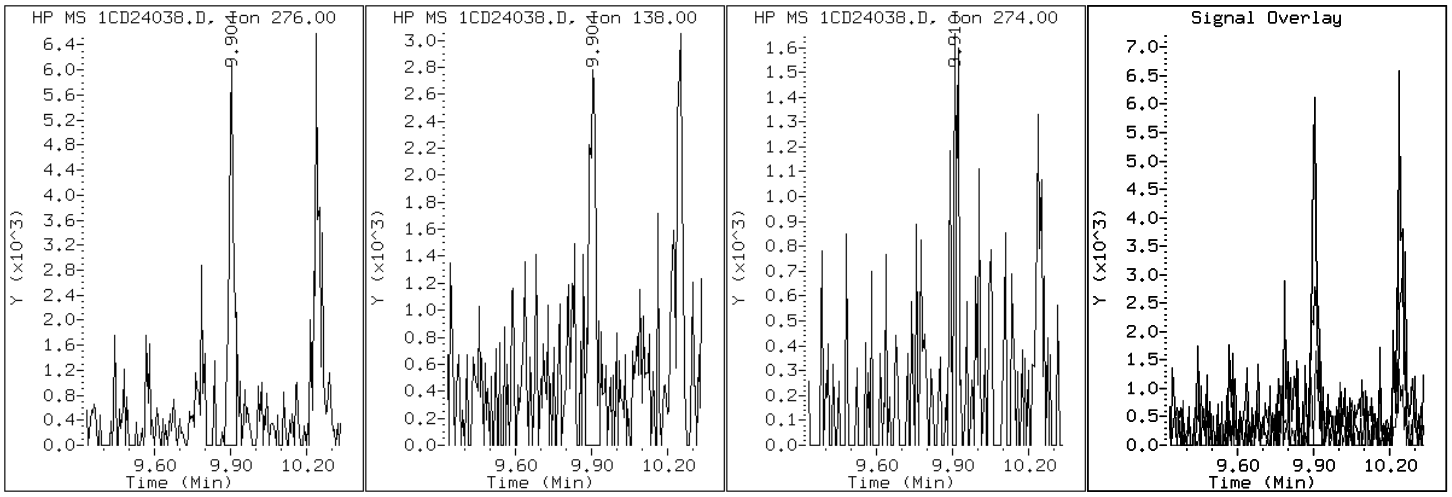
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

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



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

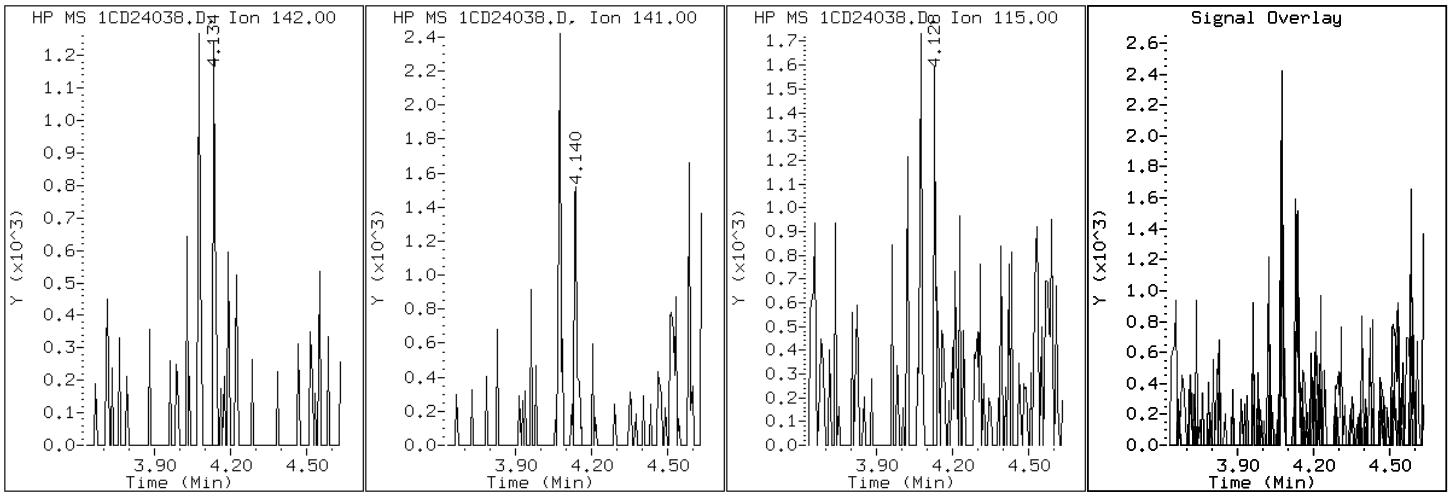
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

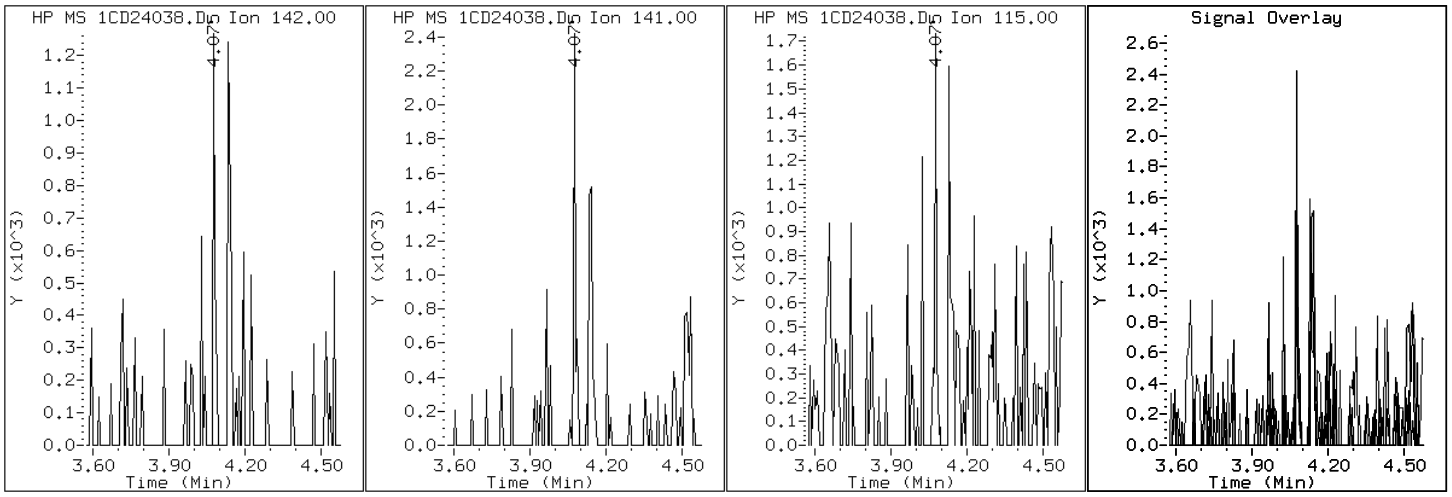
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

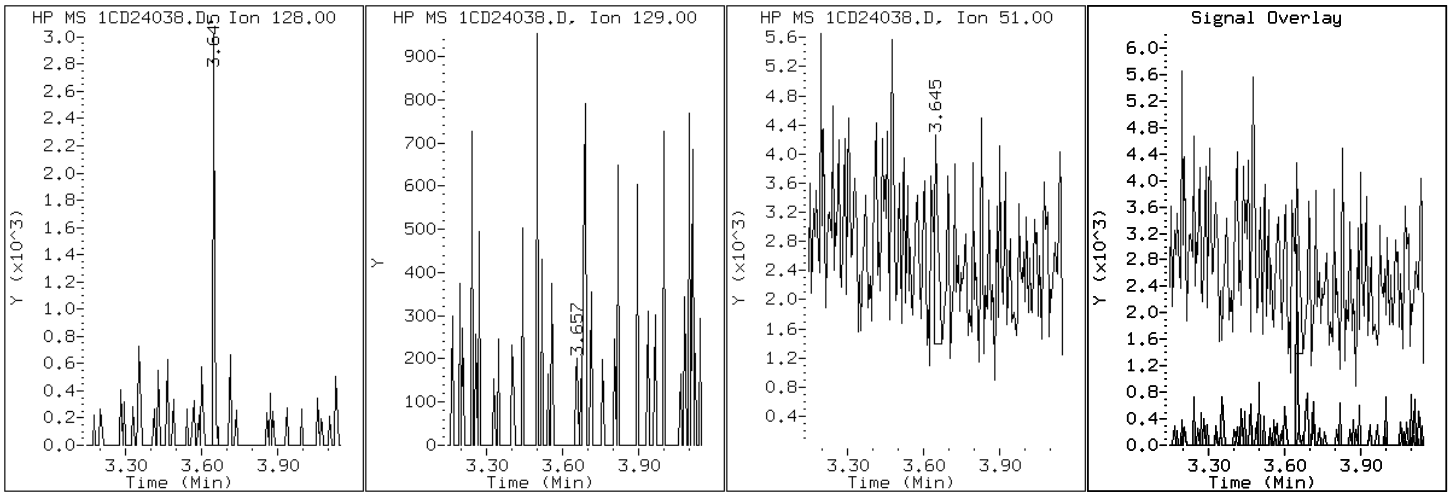
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

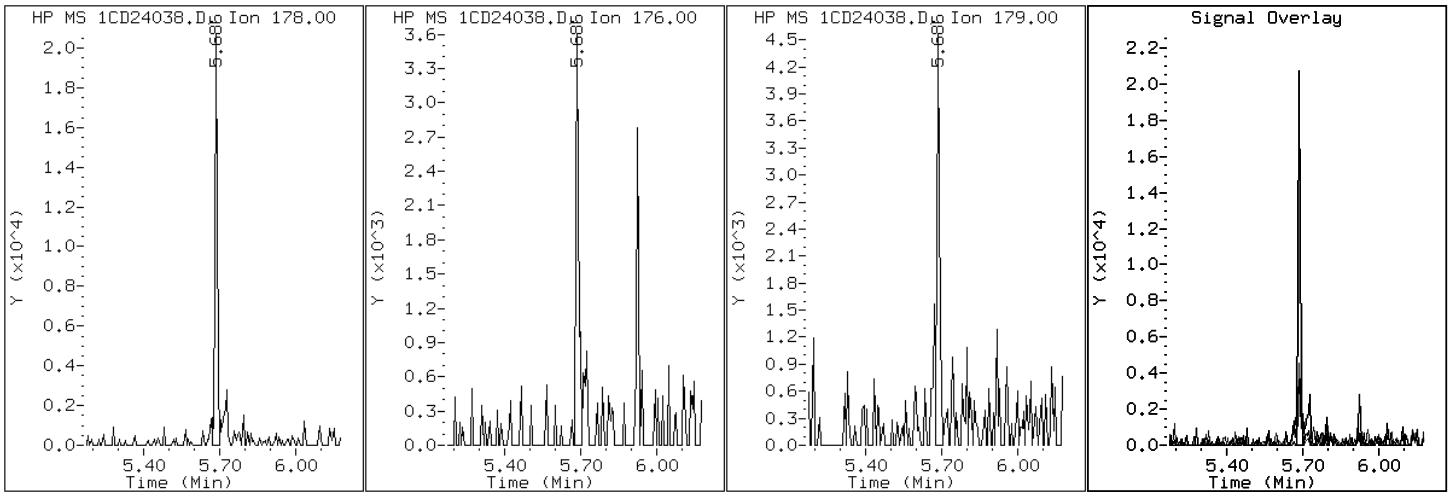
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24038.D

Date: 24-APR-2013 23:41

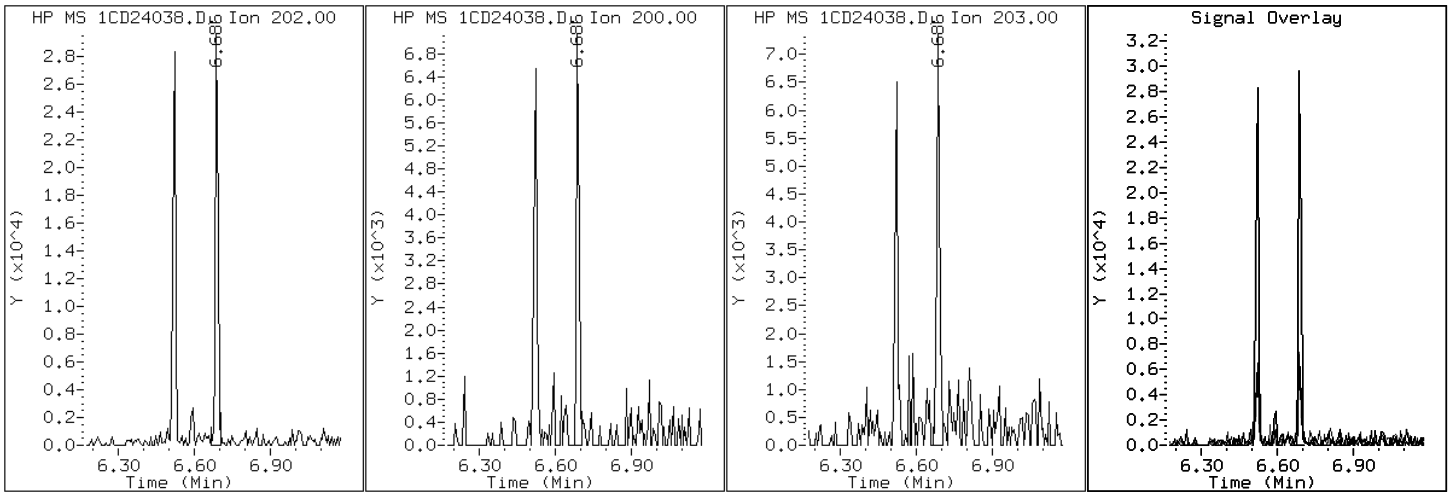
Client ID: CV1334A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-16-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 04/25/2013

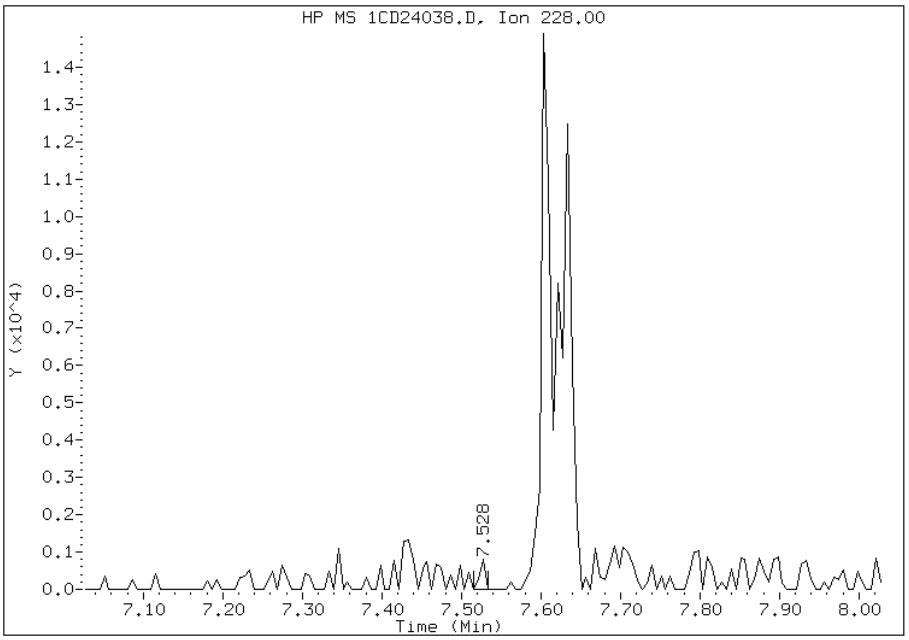
Processing Integration Results

RT: 7.53

Response: 374

Amount: 0

Conc: 0



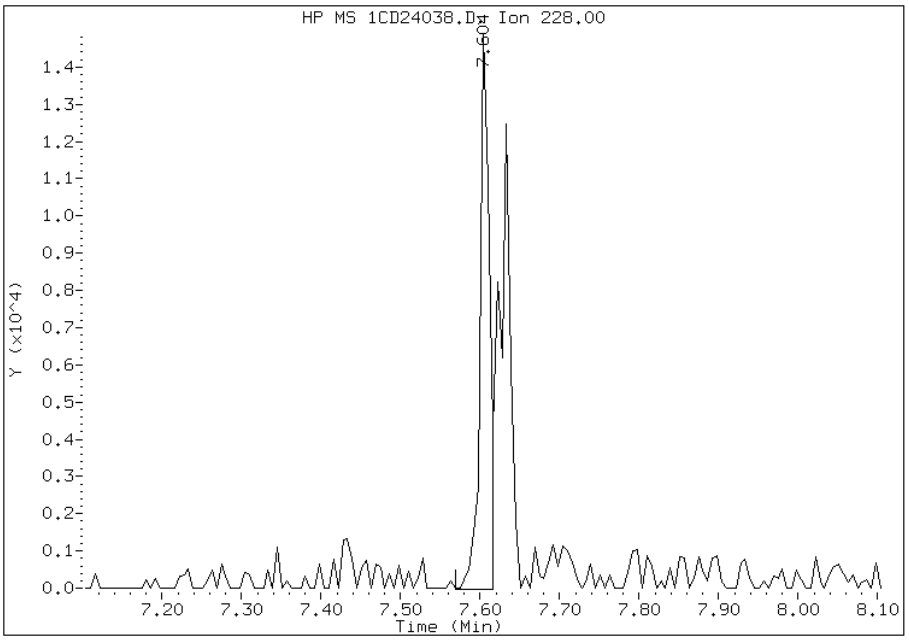
Manual Integration Results

RT: 7.60

Response: 12447

Amount: 2

Conc: 175



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:05
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 22 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 04/25/2013

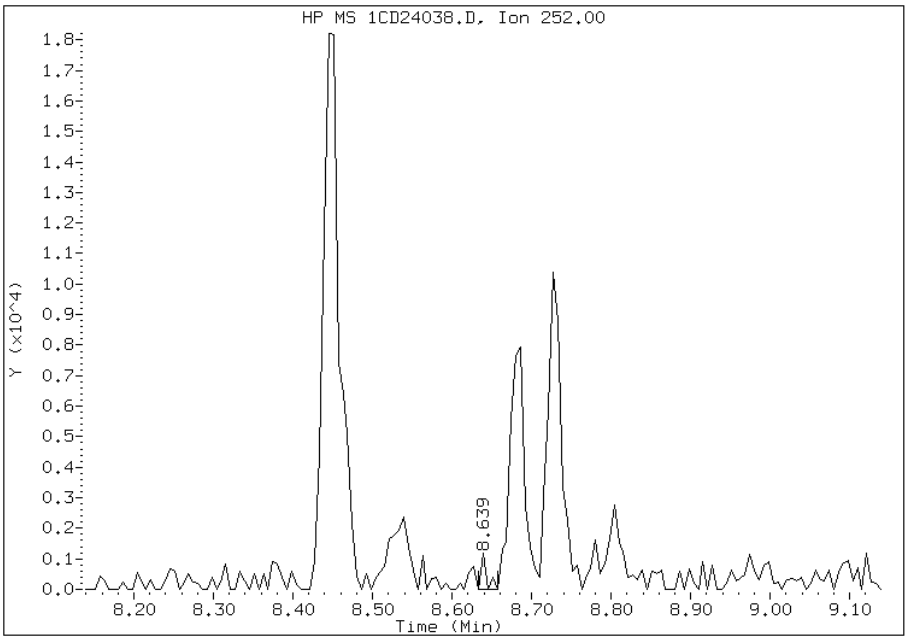
Processing Integration Results

RT: 8.64

Response: 558

Amount: 0

Conc: 26



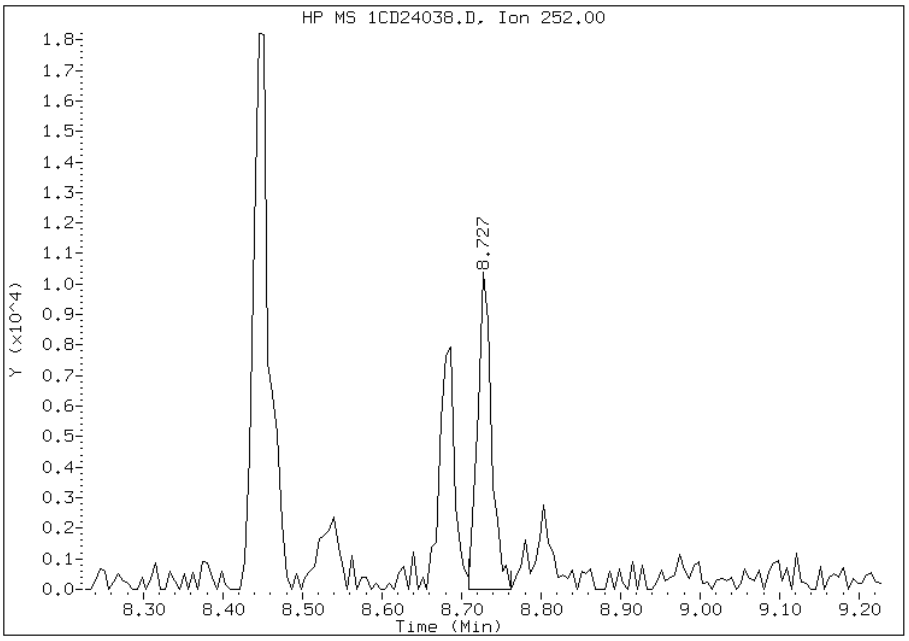
Manual Integration Results

RT: 8.73

Response: 12537

Amount: 2

Conc: 203



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:06
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

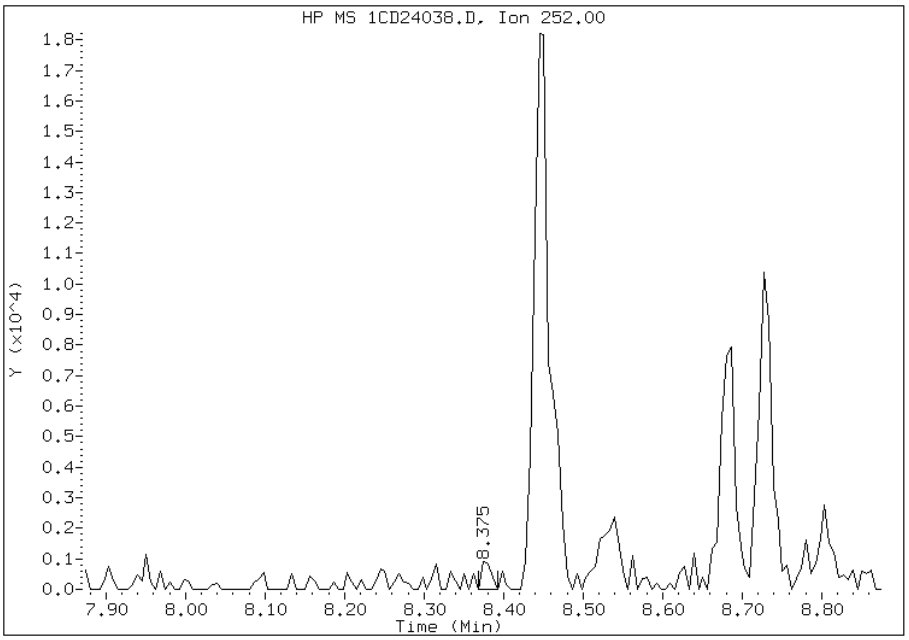
Processing Integration Results

RT: 8.37

Response: 761

Amount: 0

Conc: 11



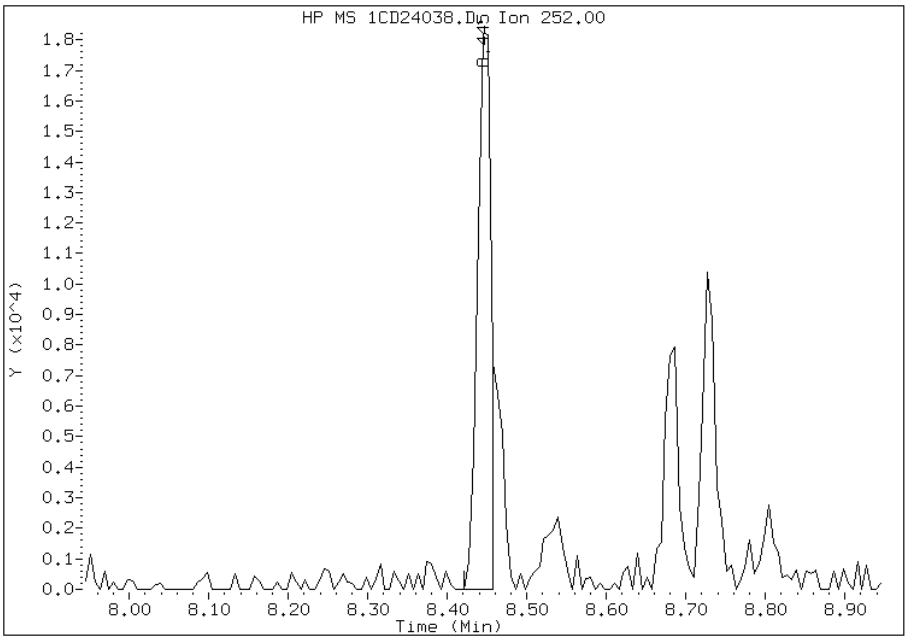
Manual Integration Results

RT: 8.45

Response: 21467

Amount: 4

Conc: 315



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

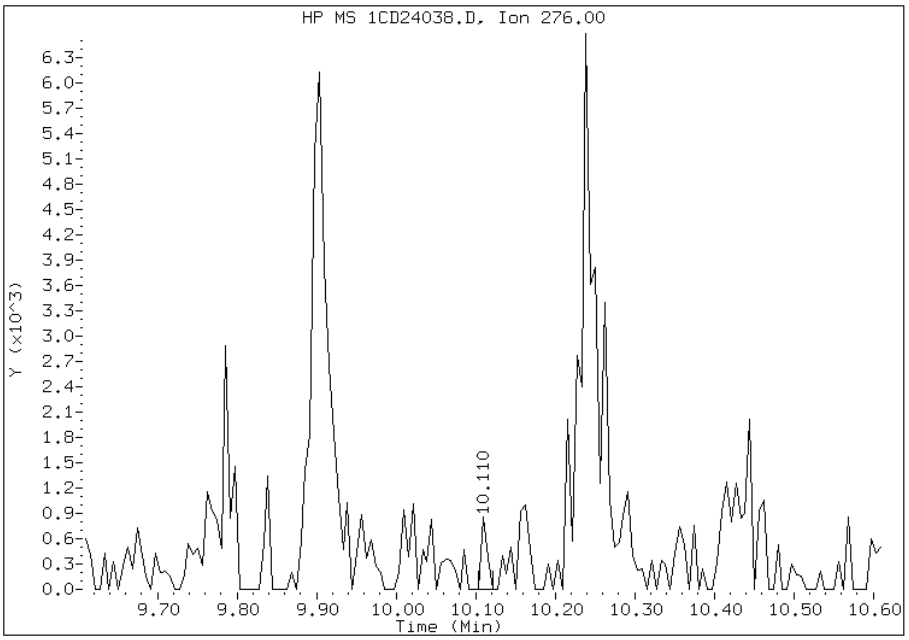
Processing Integration Results

RT: 10.11

Response: 429

Amount: 0

Conc: 7



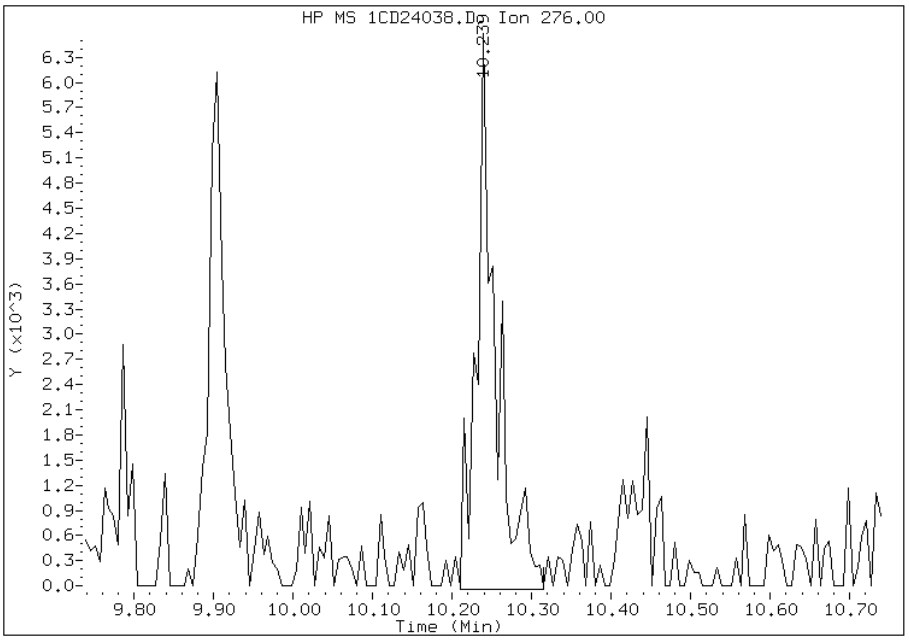
Manual Integration Results

RT: 10.24

Response: 11375

Amount: 2

Conc: 183



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

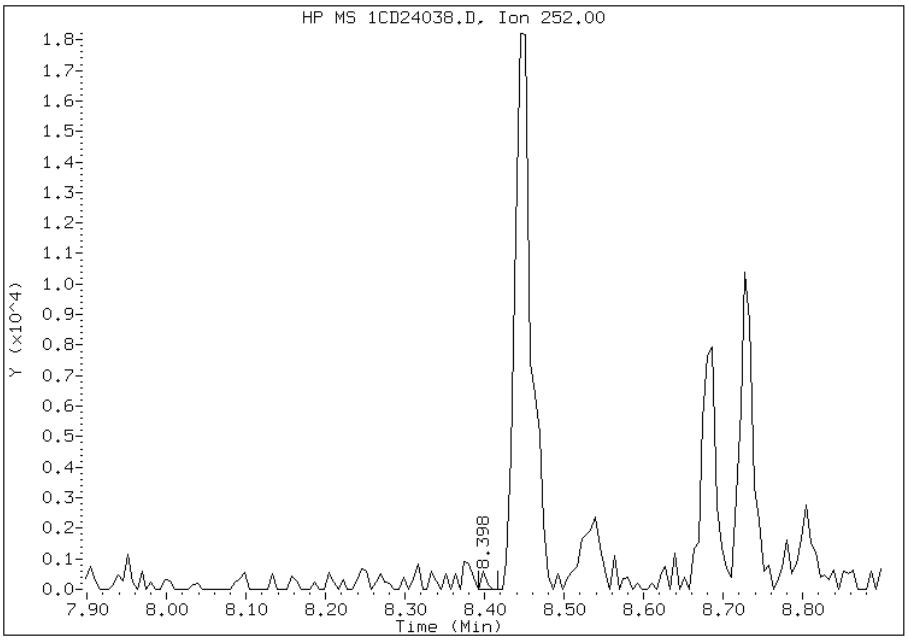
Processing Integration Results

RT: 8.40

Response: 267

Amount: 0

Conc: 4



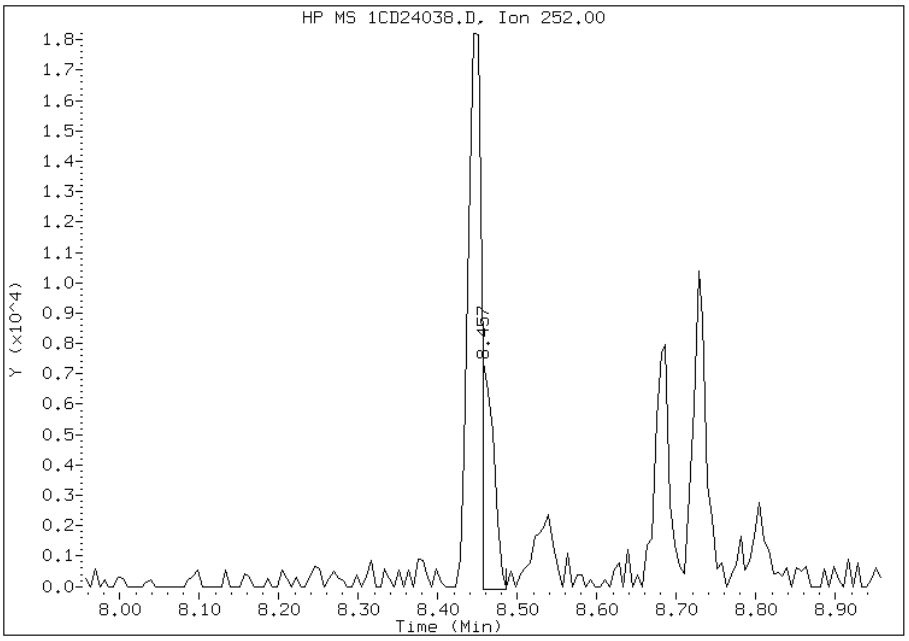
Manual Integration Results

RT: 8.46

Response: 7800

Amount: 1

Conc: 118



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 9 Fluorene
CAS #: 86-73-7
Report Date: 04/25/2013

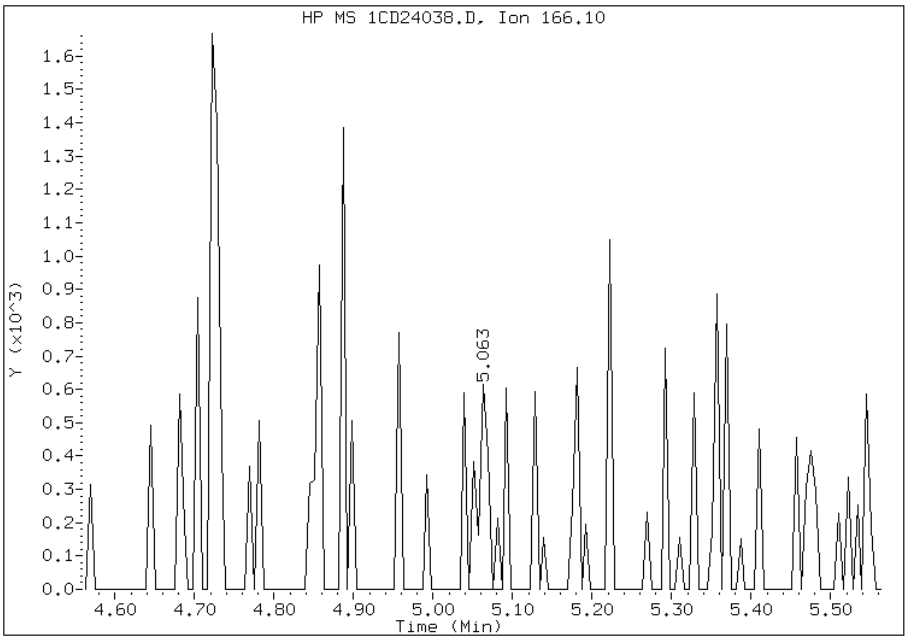
Processing Integration Results

RT: 5.06

Response: 625

Amount: 0

Conc: 12



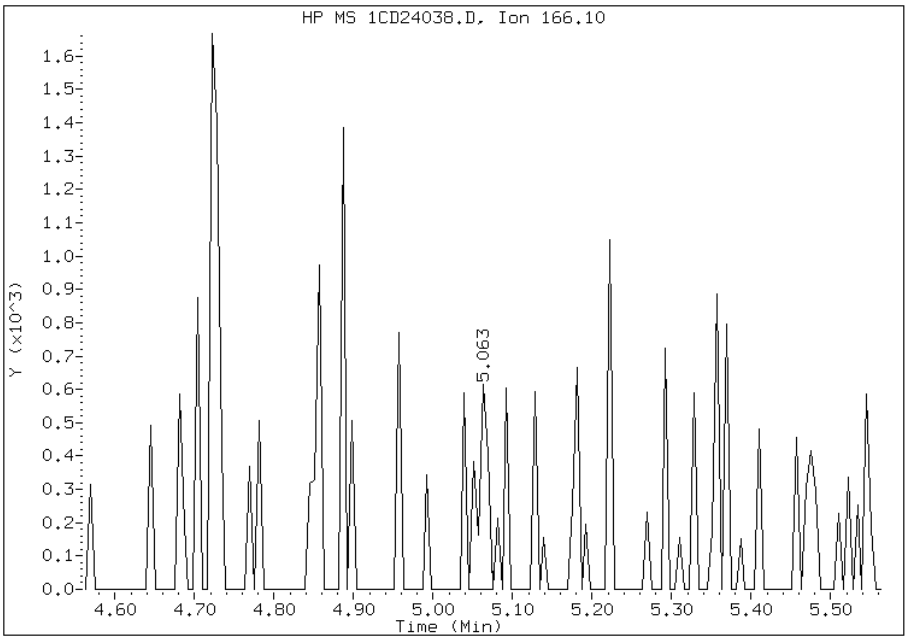
Manual Integration Results

RT: 5.06

Response: 550

Amount: 0

Conc: 11



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24038.D
Inj. Date and Time: 24-APR-2013 23:41
Instrument ID: BSMC5973.i
Client ID: CV1334A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

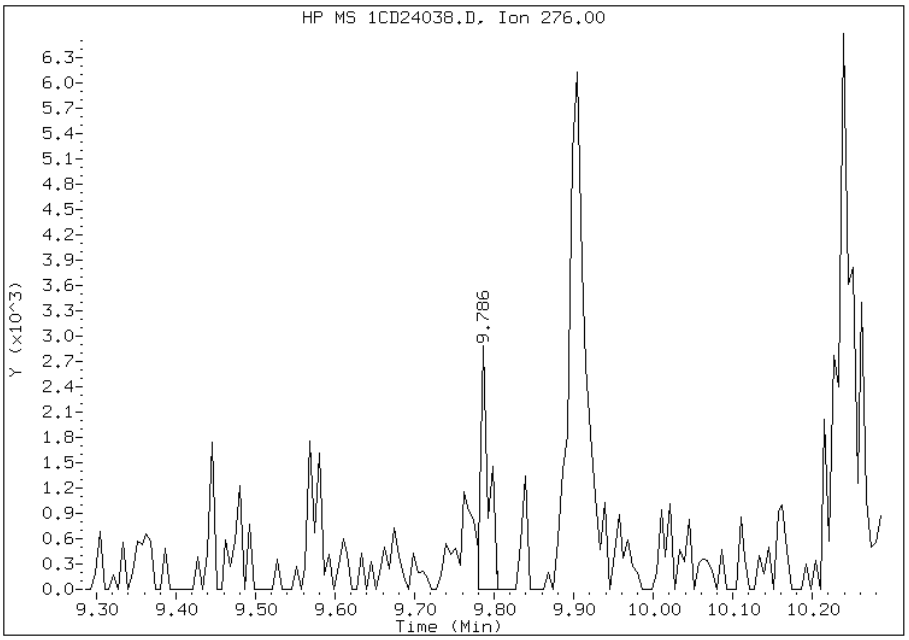
Processing Integration Results

RT: 9.79

Response: 1999

Amount: 1

Conc: 80



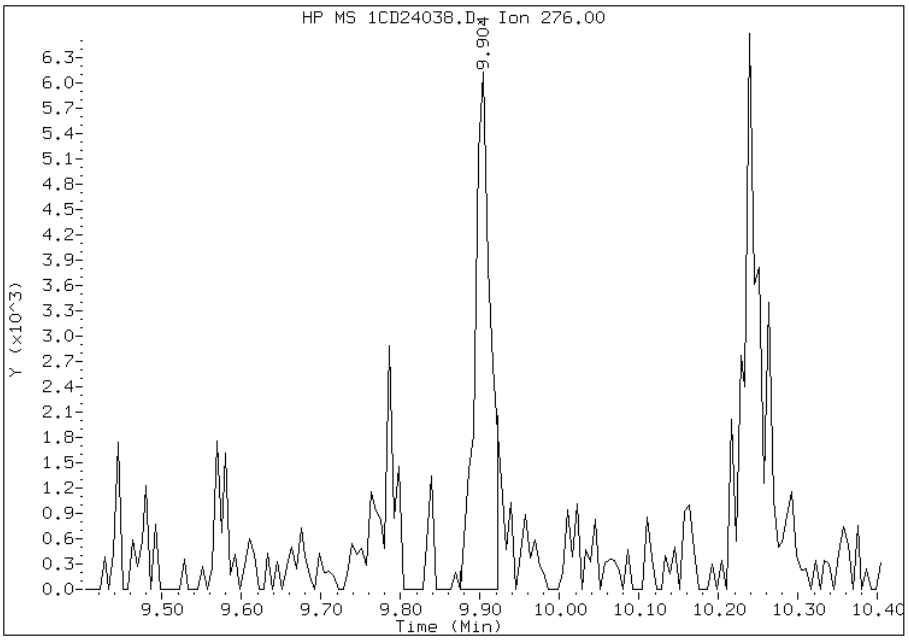
Manual Integration Results

RT: 9.90

Response: 8268

Amount: 2

Conc: 171



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1334B-CS | Lab Sample ID: 680-89513-17

Matrix: Solid | Lab File ID: 1CD24036.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:00

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.33(g) | Date Analyzed: 04/24/2013 23:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	200		49	6.2
120-12-7	Anthracene	73		10	5.2
56-55-3	Benzo[a]anthracene	460		9.9	4.8
50-32-8	Benzo[a]pyrene	440		13	6.4
205-99-2	Benzo[b]fluoranthene	600		15	7.5
191-24-2	Benzo[g,h,i]perylene	350		25	5.4
207-08-9	Benzo[k]fluoranthene	360		9.9	4.4
218-01-9	Chrysene	560		11	5.5
53-70-3	Dibenz(a,h)anthracene	89		25	5.1
206-44-0	Fluoranthene	750		25	4.9
86-73-7	Fluorene	27		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	290		25	8.8
90-12-0	1-Methylnaphthalene	75		49	5.4
91-57-6	2-Methylnaphthalene	88		49	8.8
91-20-3	Naphthalene	65		49	5.4
85-01-8	Phenanthrene	260		9.9	4.8
129-00-0	Pyrene	750		25	4.6

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\1C042413.b\1CD24036.D
Lab Smp Id: 680-89513-A-17-A Client Smp ID: CV1334B-CS
Inj Date : 24-APR-2013 23:04
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-17-a
Misc Info : 680-89513-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 32
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	20.659	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	154038	40.0000	
* 6 Acenaphthene-d10	164	4.722	4.722	(1.000)	97161	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	206340	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	22094	7.37491	606.3433
* 18 Chrysene-d12	240	7.615	7.592	(1.000)	210032	40.0000	(H)
* 23 Perylene-d12	264	8.774	8.733	(1.000)	196026	40.0000	(H)
2 Naphthalene	128	3.645	3.646	(1.003)	3184	0.79111	65.0425(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	1364	1.06788	87.7976
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	2244	0.90720	74.5871(Q)
5 Acenaphthylene	152	4.633	4.634	(0.981)	10918	2.44283	200.8421
9 Fluorene	166	5.063	5.057	(1.072)	1097	0.32625	26.8233(Q)
11 Phenanthrene	178	5.686	5.675	(1.003)	17548	3.10603	255.3686
12 Anthracene	178	5.721	5.710	(1.009)	4596	0.88382	72.6648
13 Carbazole	167	5.827	5.822	(1.028)	3621	0.63765	52.4254

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.516	6.504	(1.149)	62450	9.13043	750.6776
16 Pyrene	202	6.686	6.675	(0.878)	56346	9.08371	746.8364(H)
17 Benzo(a)anthracene	228	7.604	7.581	(0.998)	30848	5.63943	463.6577(MH)
19 Chrysene	228	7.633	7.610	(1.002)	40771	6.79791	558.9041(H)
20 Benzo(b)fluoranthene	252	8.445	8.410	(0.962)	39358	7.25965	596.8670(M)
21 Benzo(k)fluoranthene	252	8.451	8.428	(0.963)	23170	4.39233	361.1245(QM)
22 Benzo(a)pyrene	252	8.721	8.686	(0.994)	27830	5.39439	443.5107(H)
24 Indeno(1,2,3-cd)pyrene	276	9.898	9.833	(1.128)	15769	3.51159	288.7128(MH)
25 Dibenzo(a,h)anthracene	278	9.909	9.851	(1.129)	5135	1.08029	88.8182(MH)
26 Benzo(g,h,i)perylene	276	10.233	10.163	(1.166)	20938	4.23024	347.7983(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: 1CD24036.D

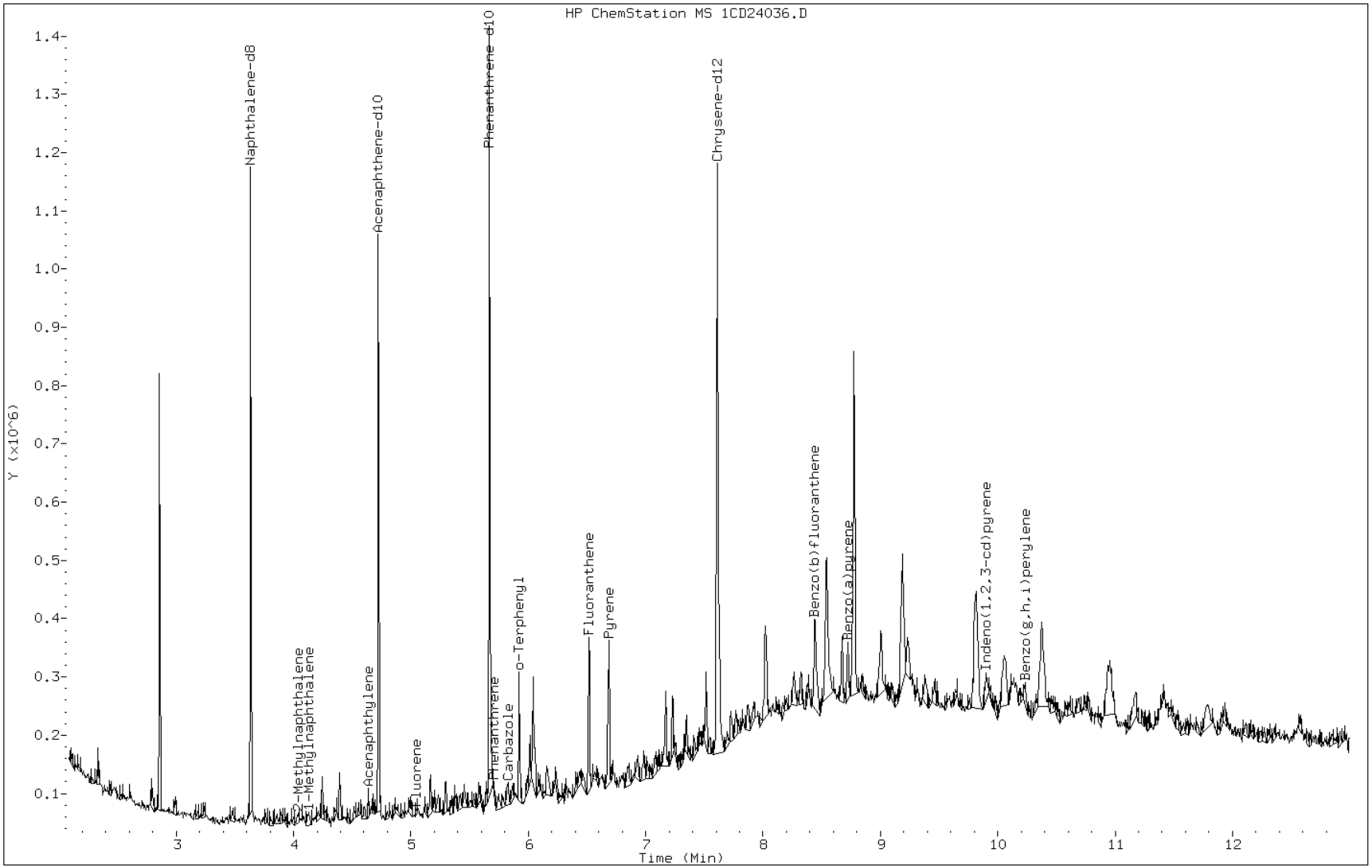
Date: 24-APR-2013 23:04

Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC



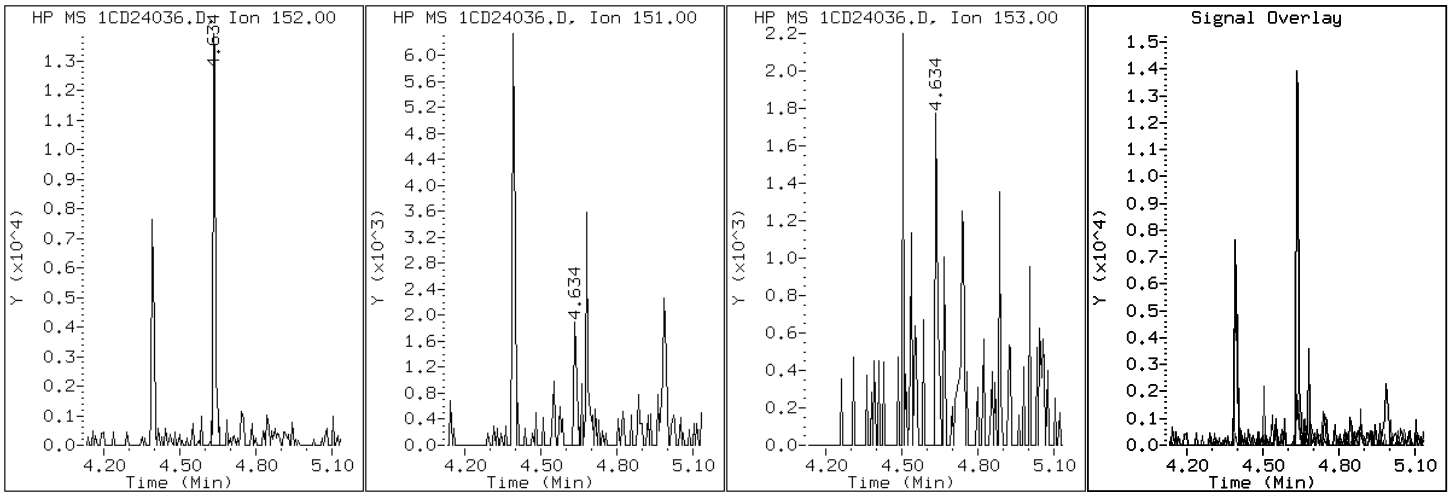
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

5 Acenaphthylene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

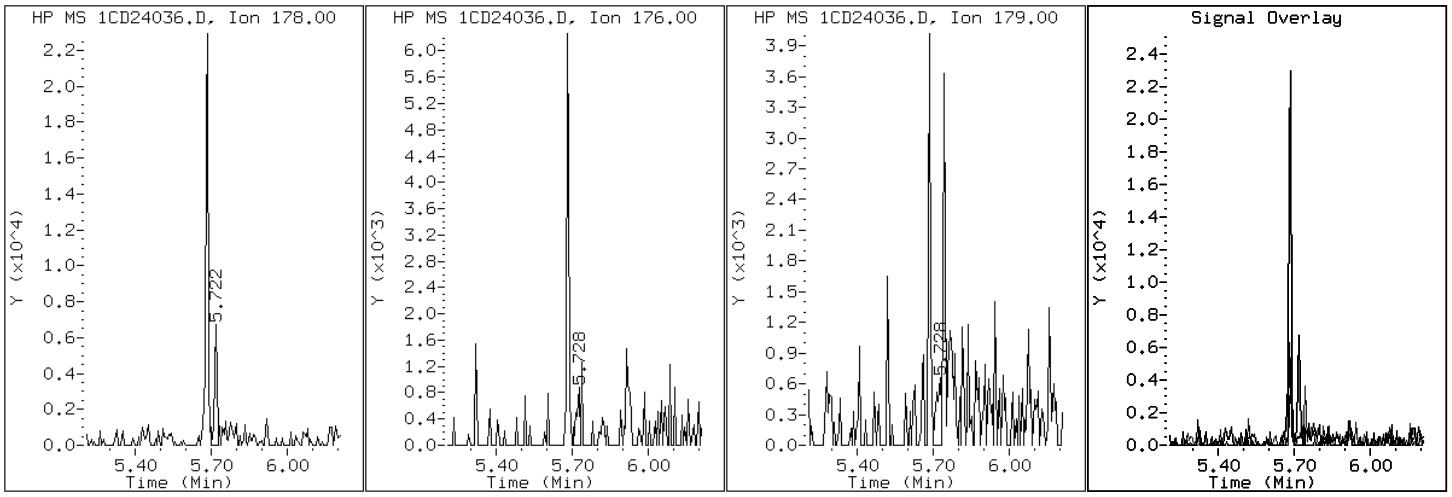
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

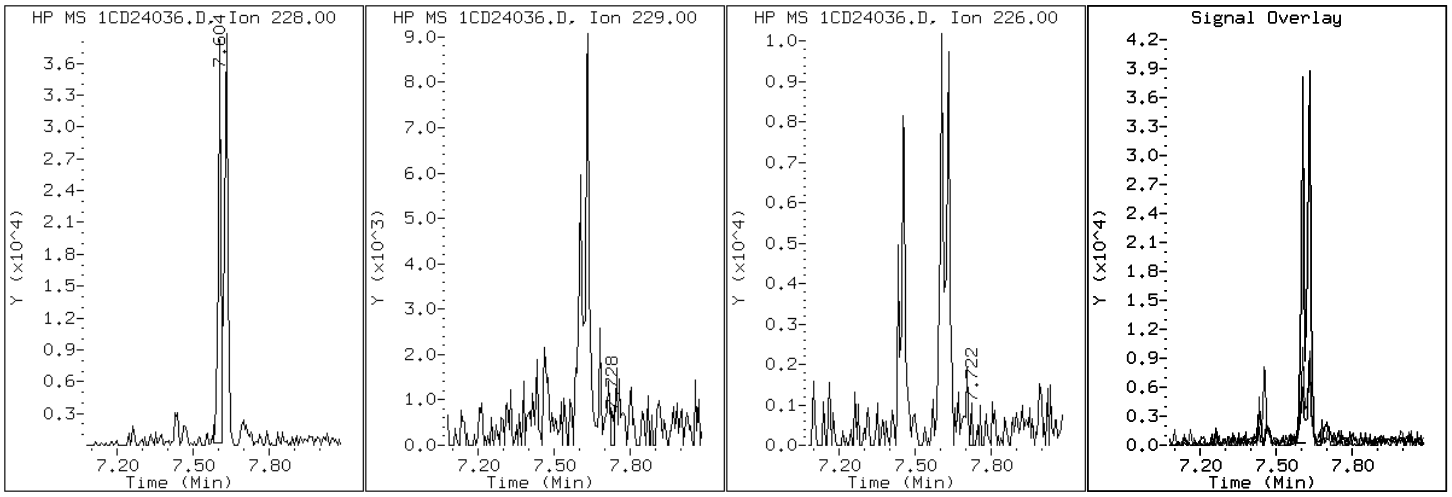
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

17 Benzo(a)anthracene



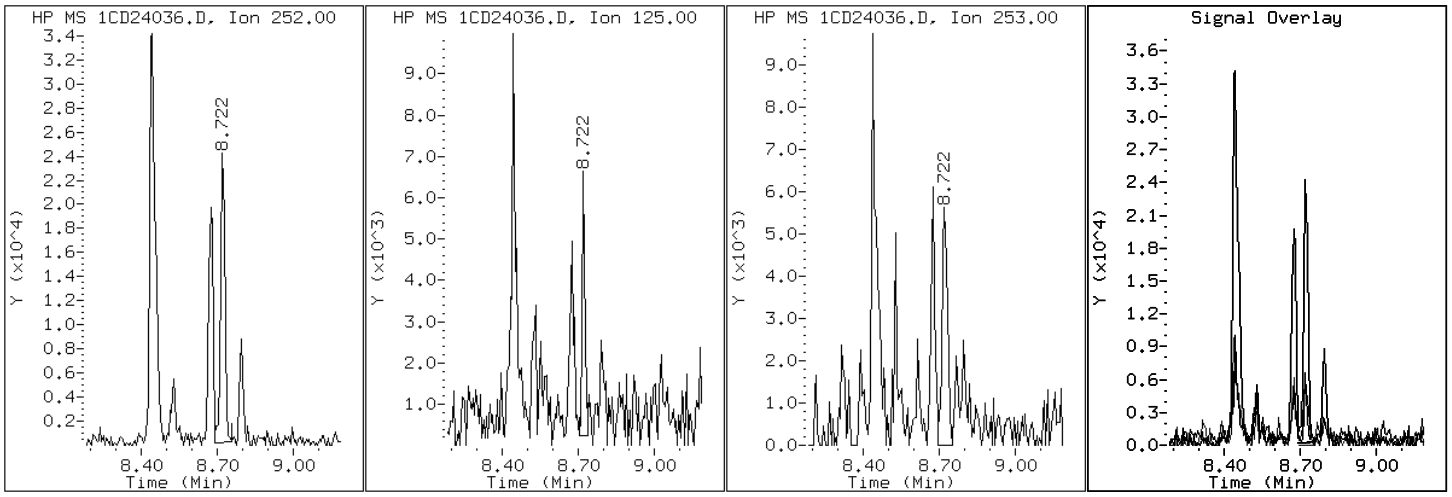
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

22 Benzo(a)pyrene



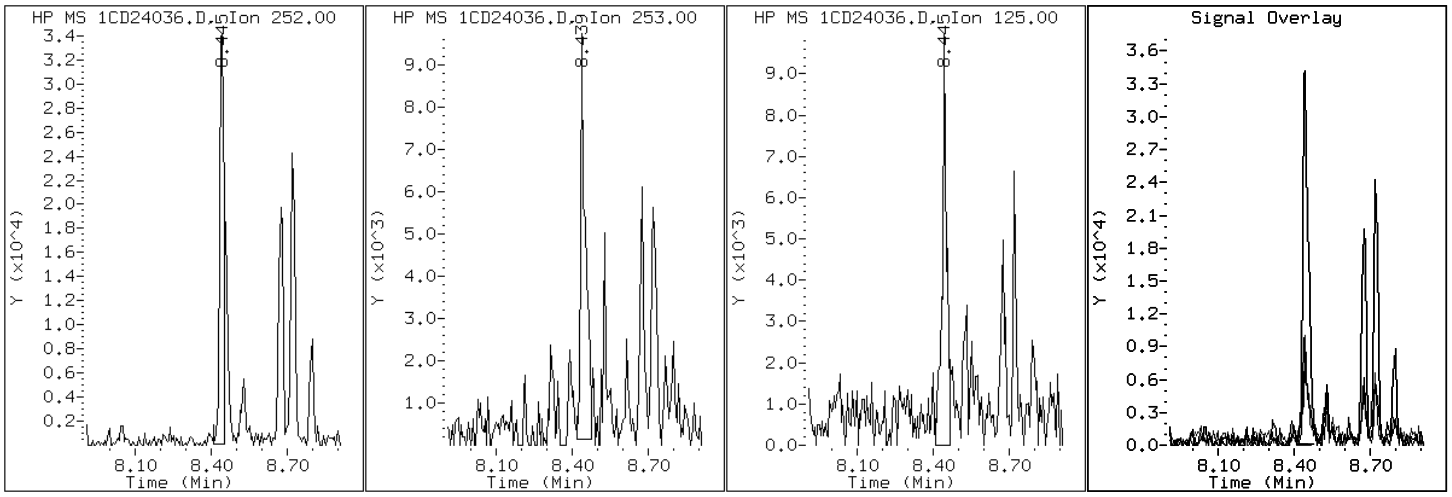
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

20 Benzo(b)fluoranthene



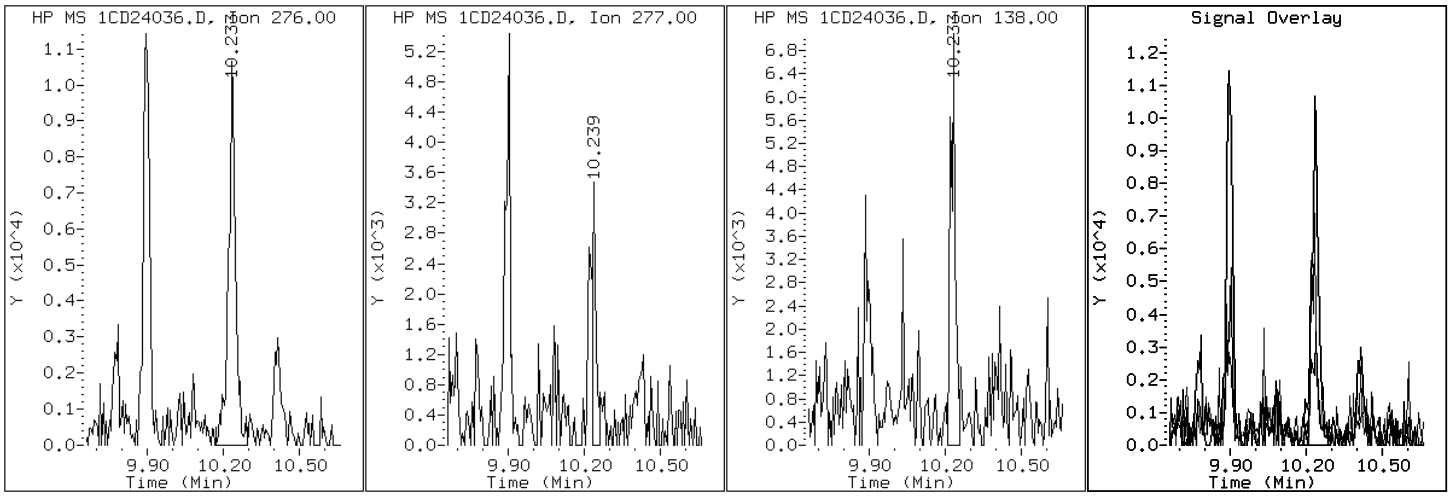
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

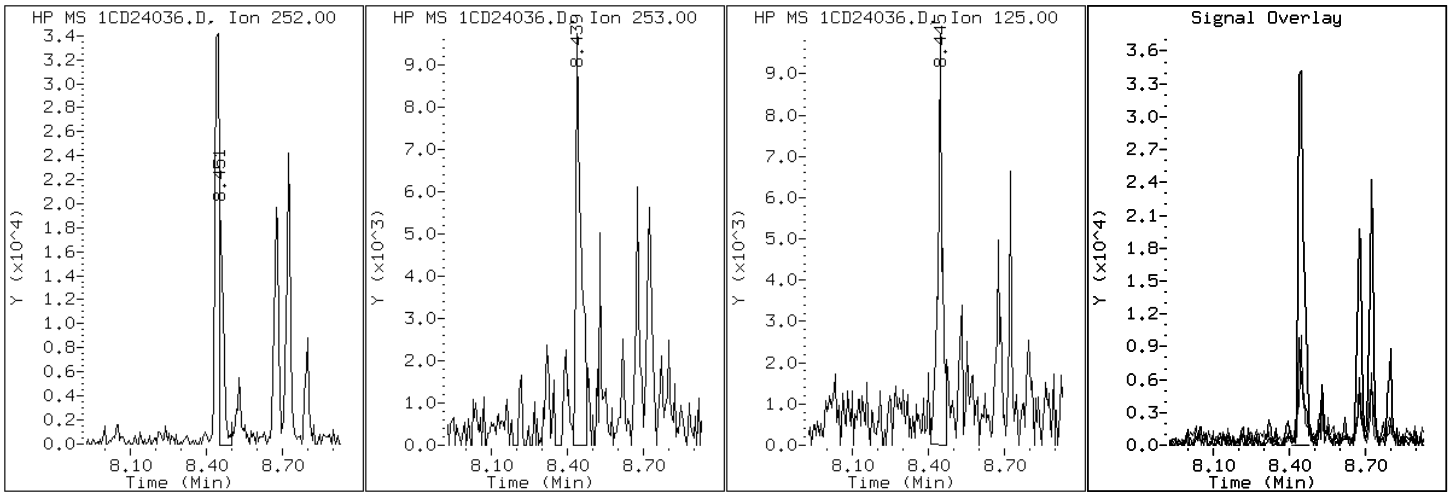
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



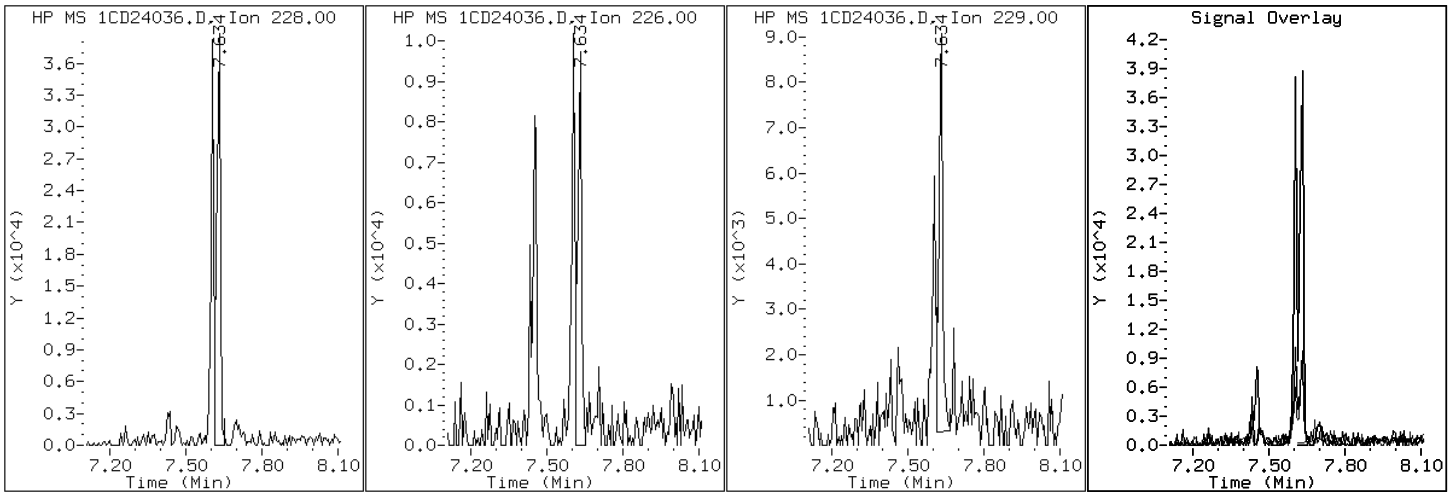
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

19 Chrysene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

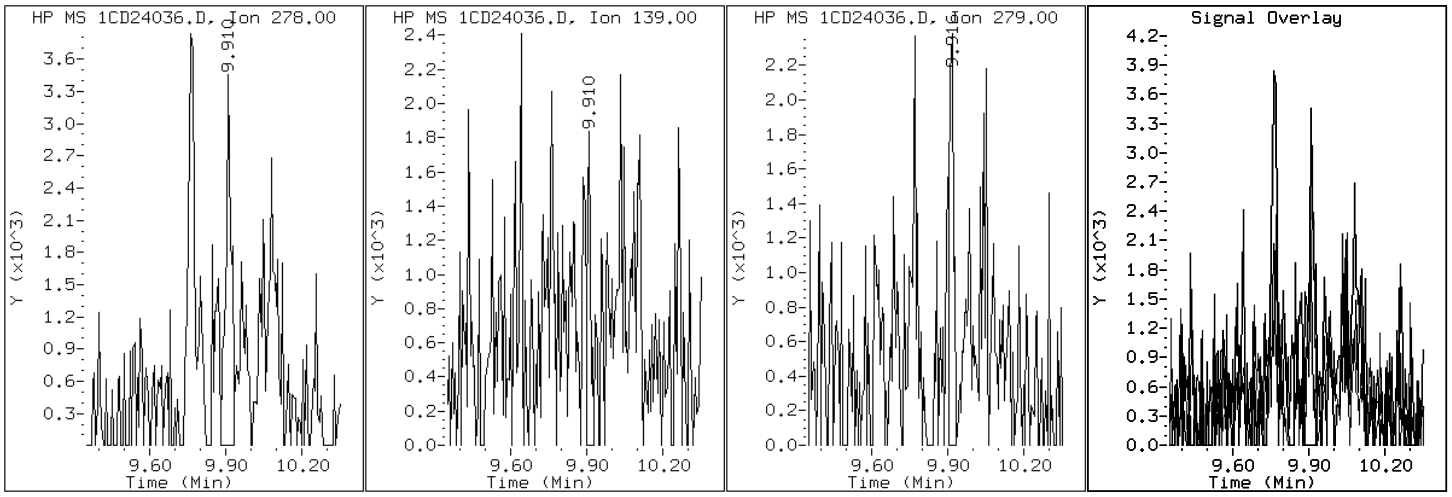
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

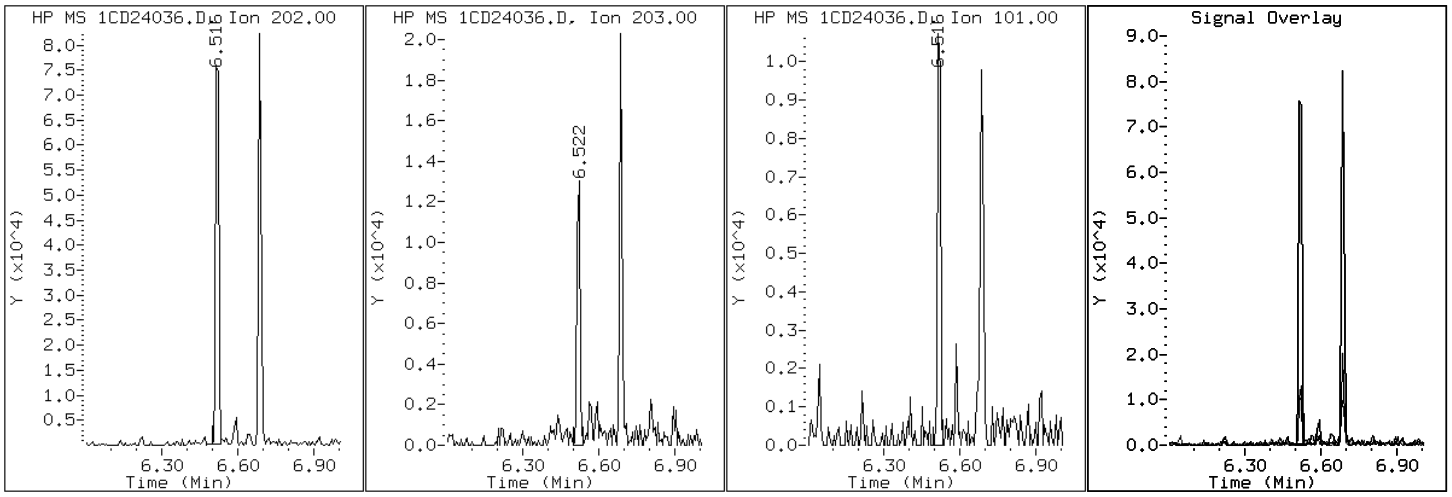
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

15 Fluoranthene



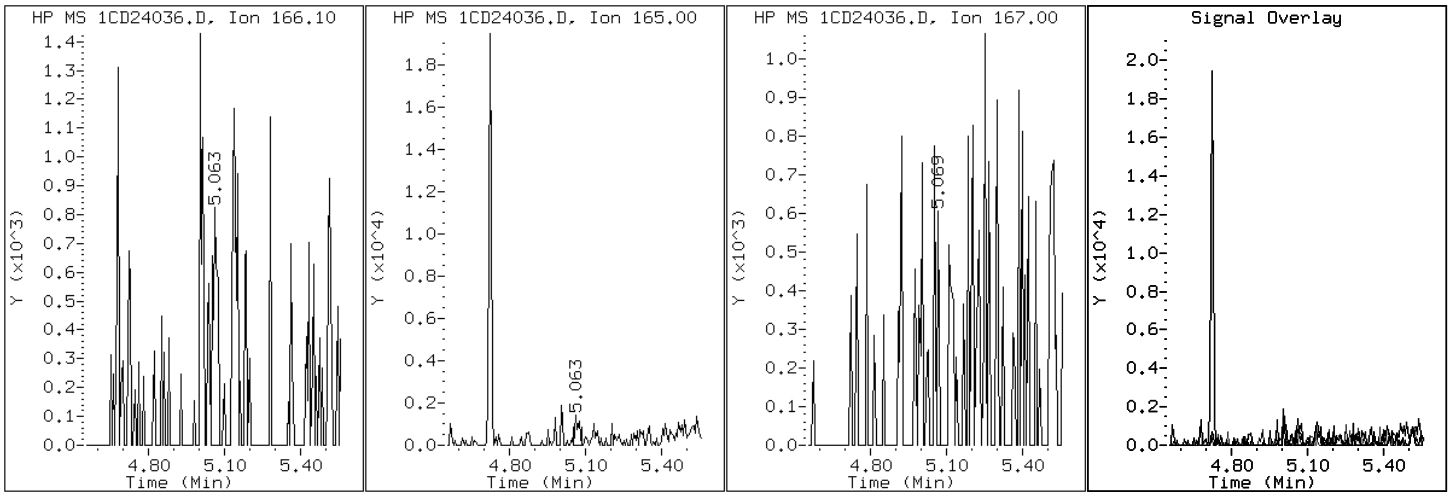
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

9 Fluorene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

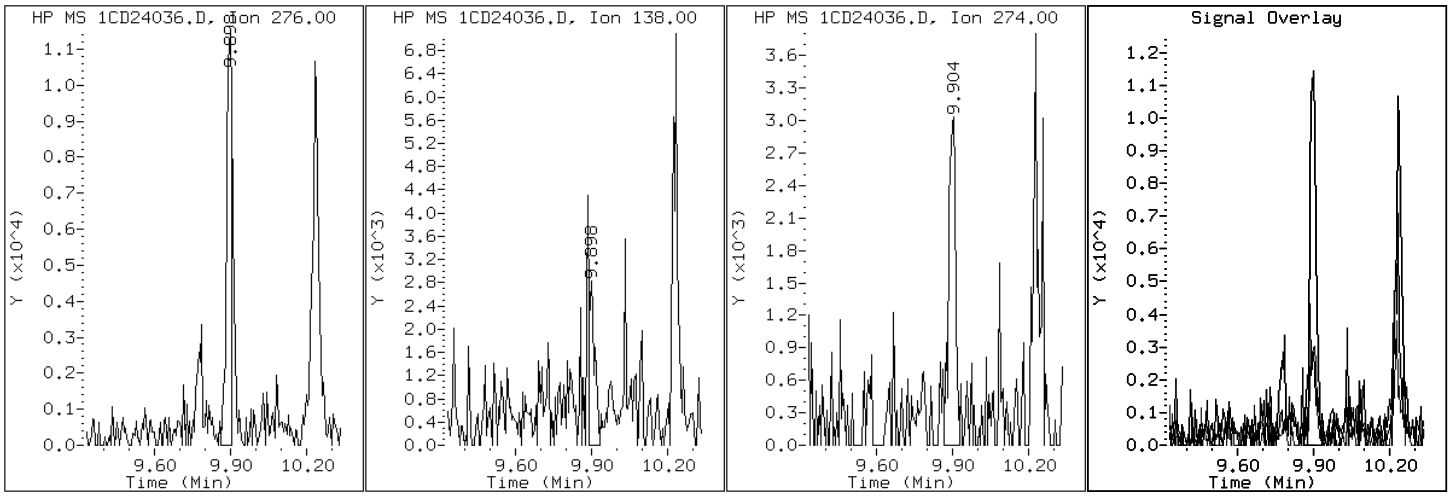
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

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



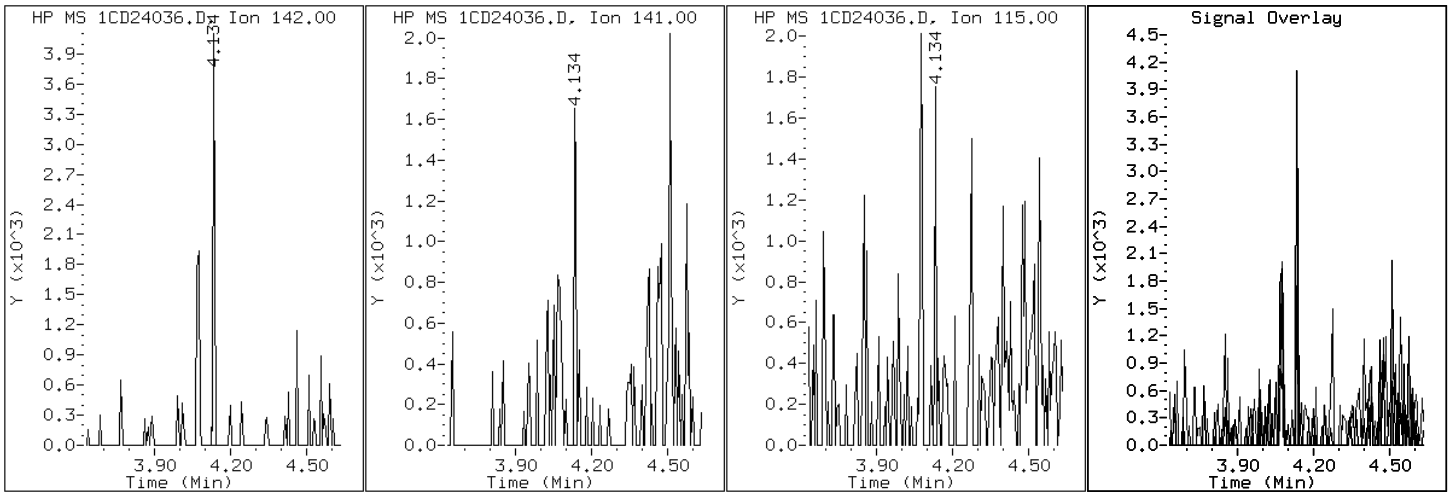
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

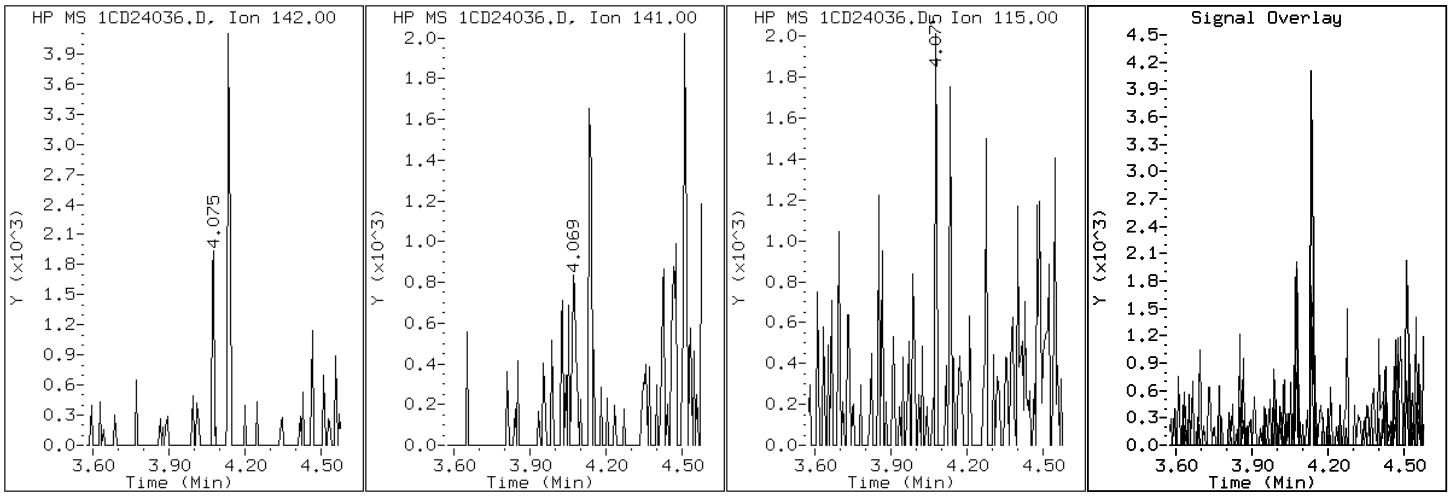
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

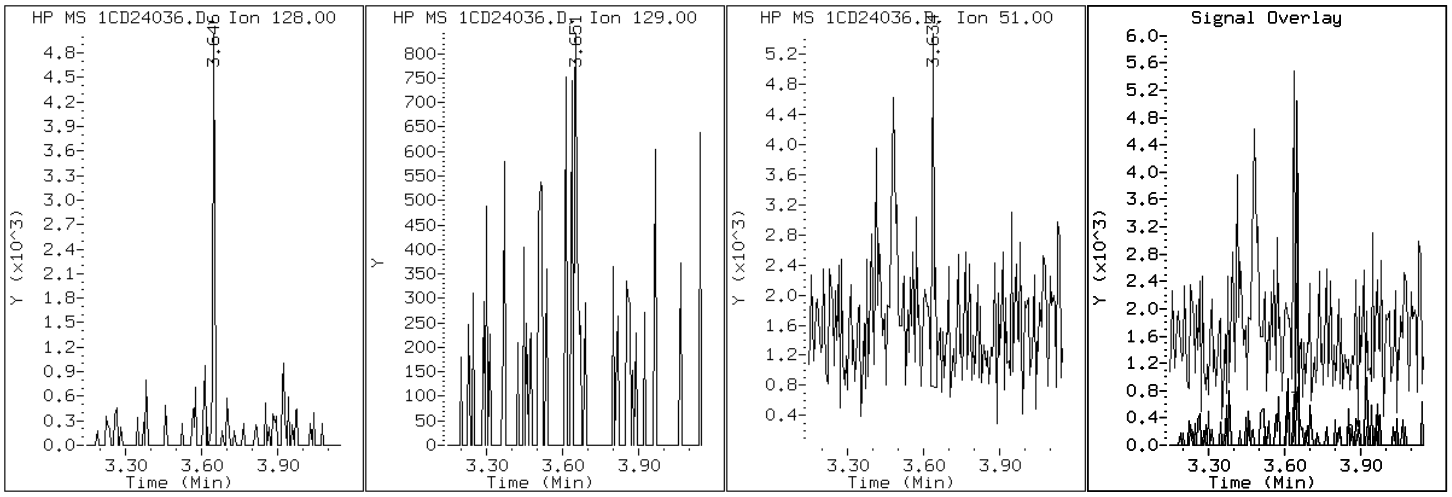
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CD24036.D

Date: 24-APR-2013 23:04

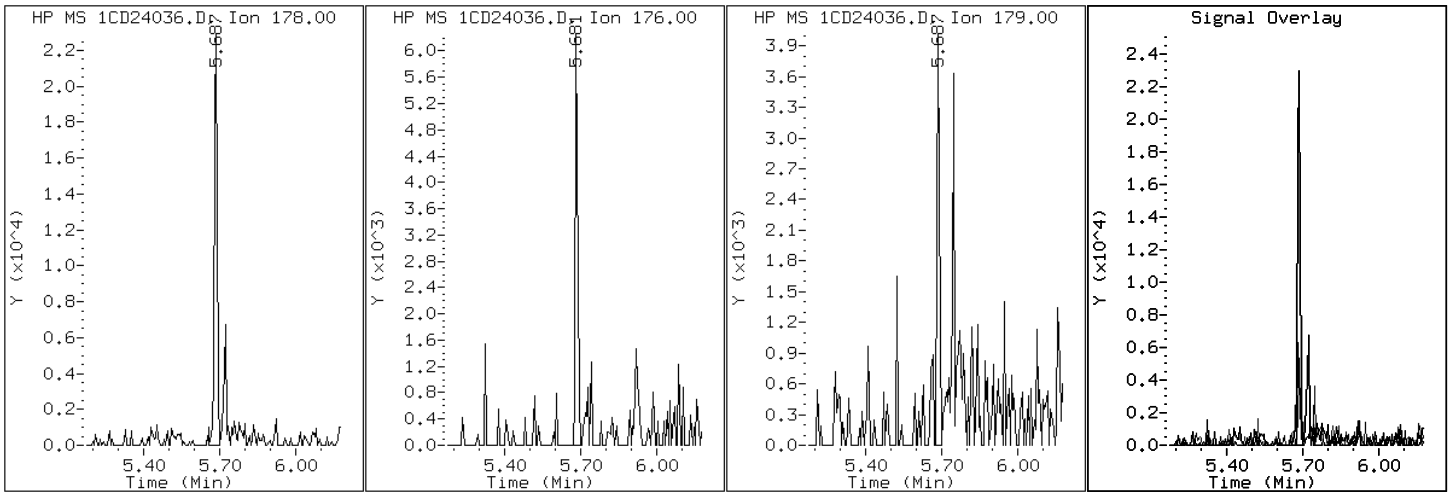
Client ID: CV1334B-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a

Operator: SCC

11 Phenanthrene



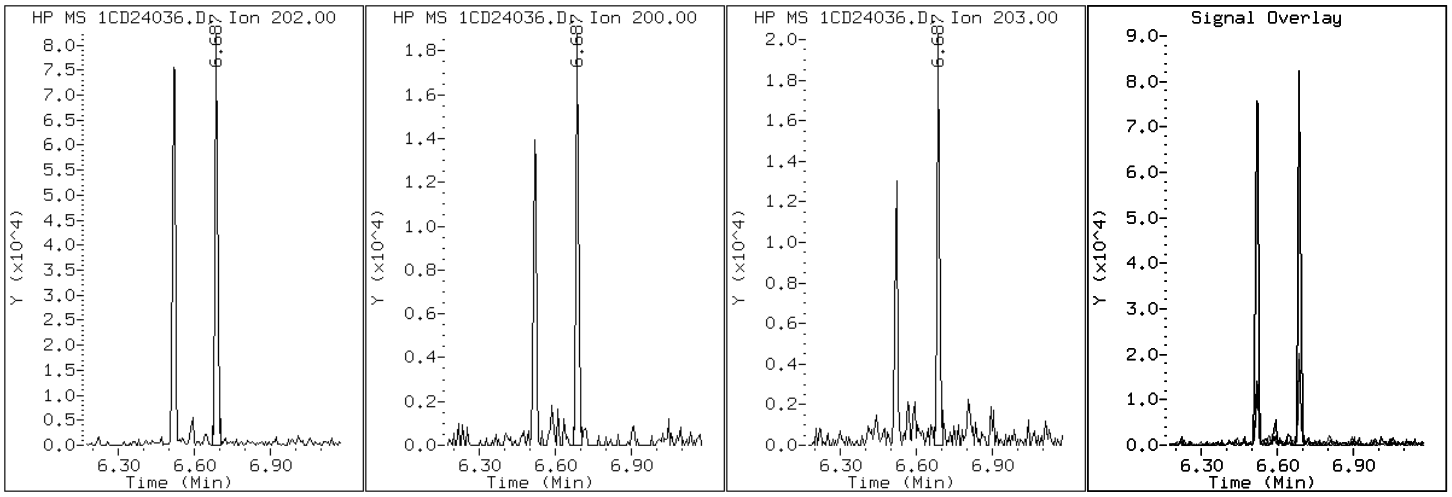
Data File: 1CD24036.D

Date: 24-APR-2013 23:04

Client ID: CV1334B-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-17-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 04/25/2013

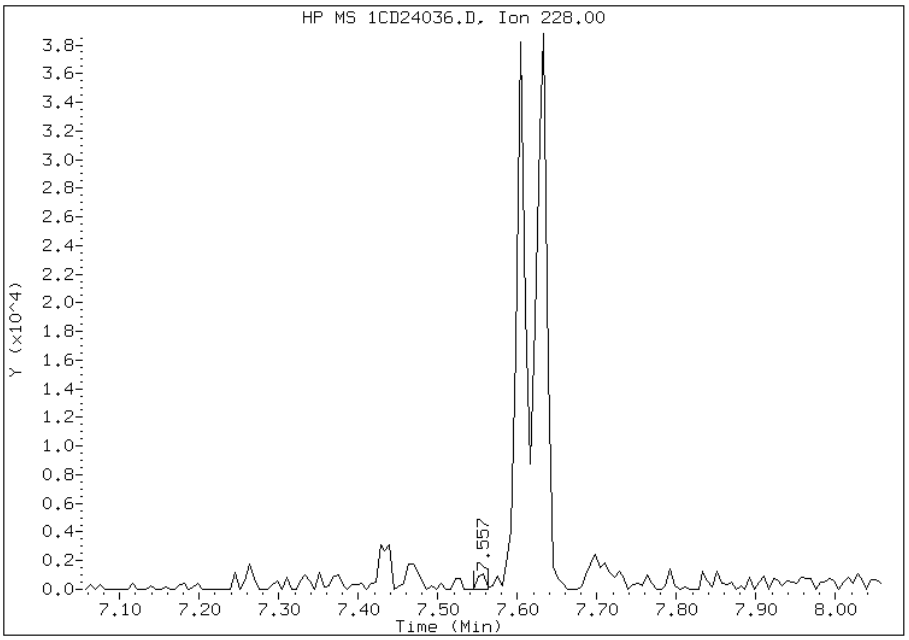
Processing Integration Results

RT: 7.56

Response: 755

Amount: 0

Conc: 1



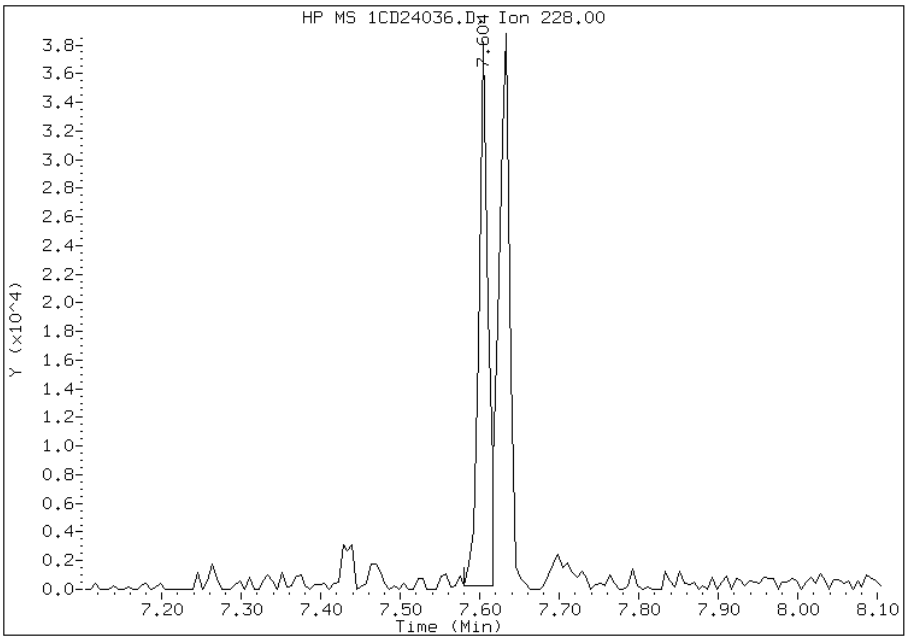
Manual Integration Results

RT: 7.60

Response: 30848

Amount: 6

Conc: 464



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:56
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

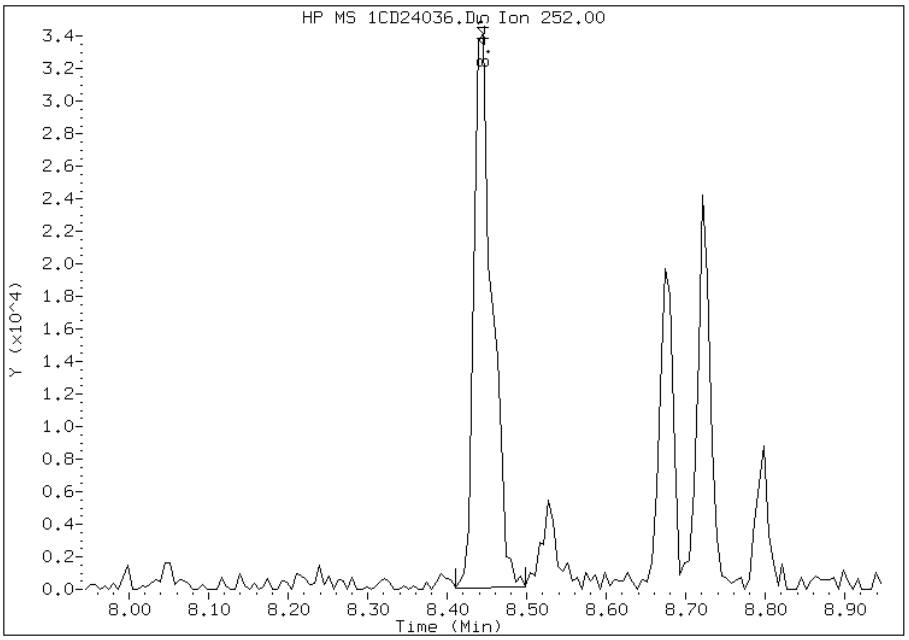
Processing Integration Results

RT: 8.45

Response: 54577

Amount: 10

Conc: 828



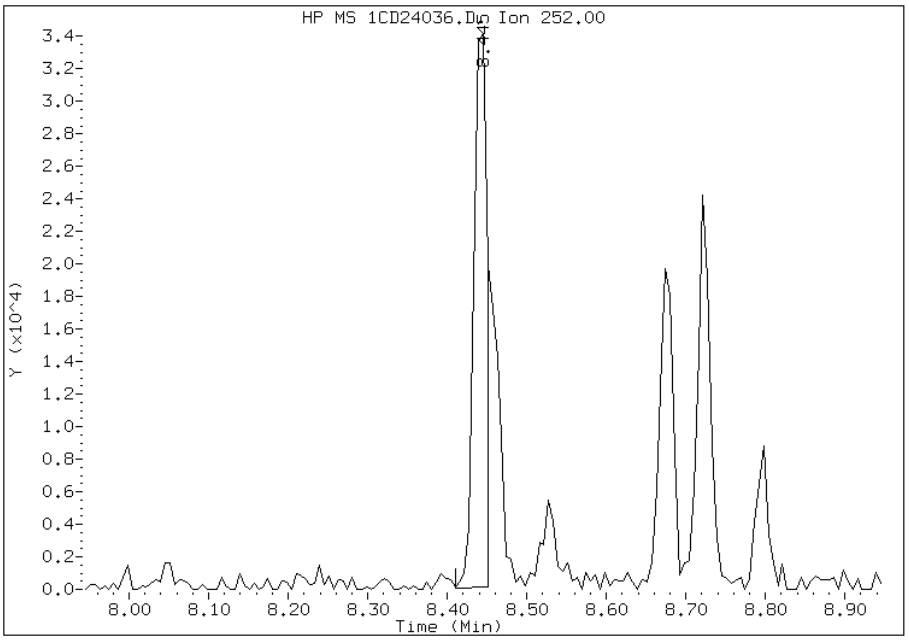
Manual Integration Results

RT: 8.45

Response: 39358

Amount: 7

Conc: 597



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

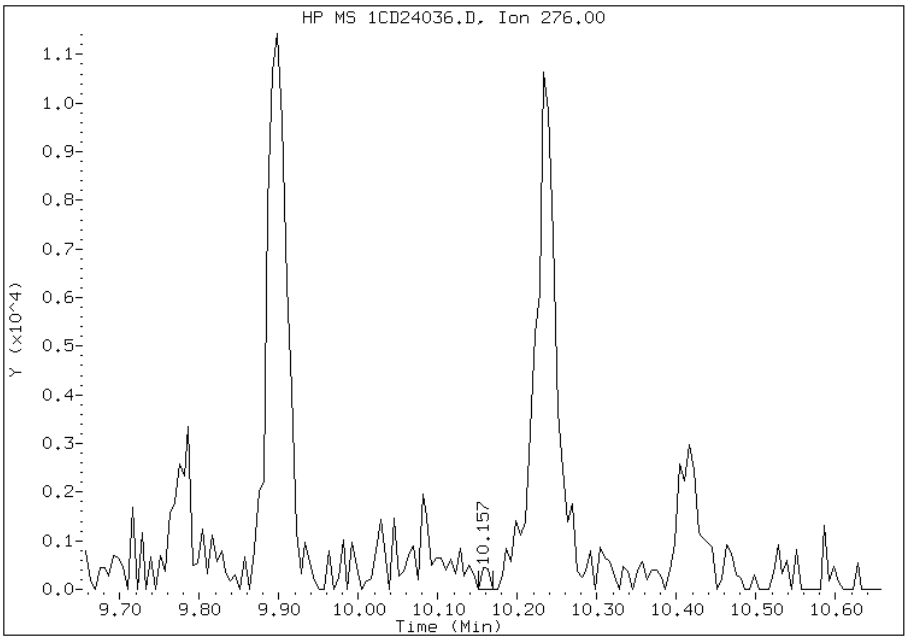
Processing Integration Results

RT: 10.16

Response: 302

Amount: 0

Conc: 5



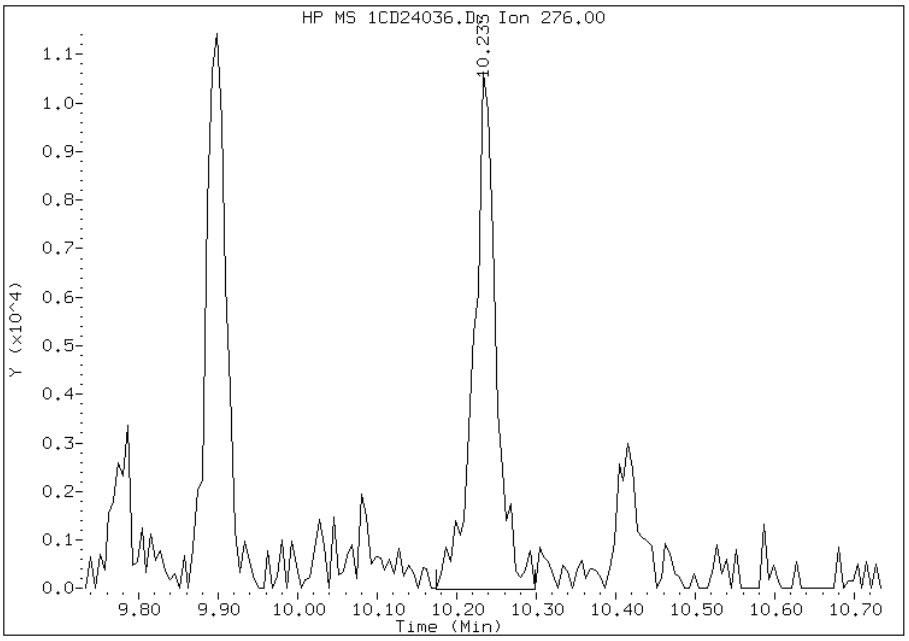
Manual Integration Results

RT: 10.23

Response: 20938

Amount: 4

Conc: 348



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

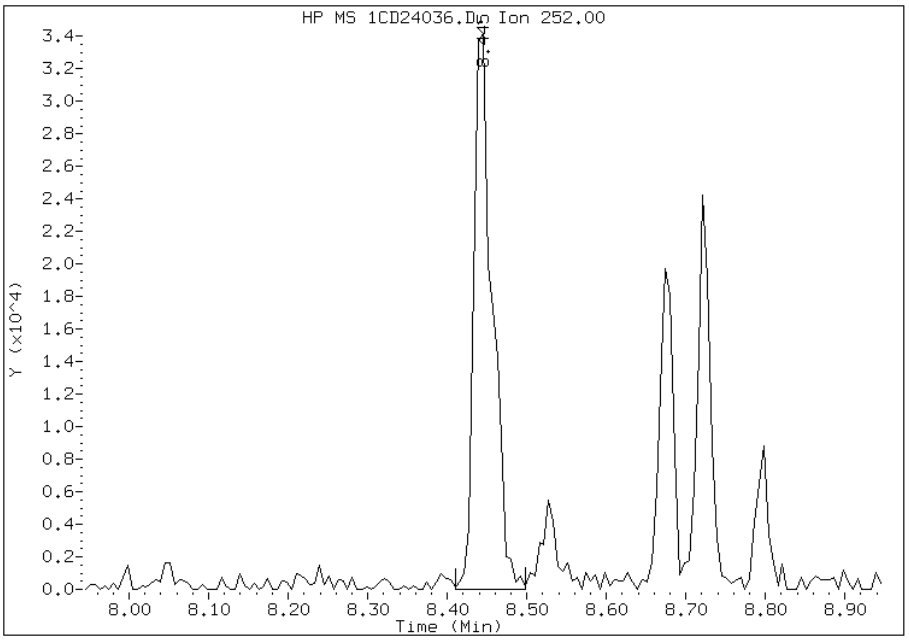
Processing Integration Results

RT: 8.45

Response: 55317

Amount: 10

Conc: 862



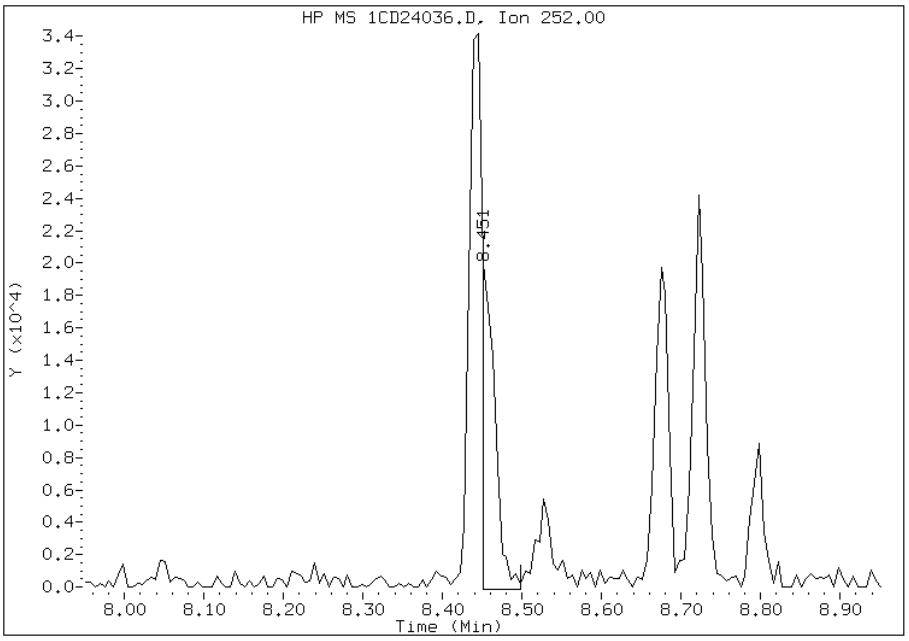
Manual Integration Results

RT: 8.45

Response: 23170

Amount: 4

Conc: 361



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

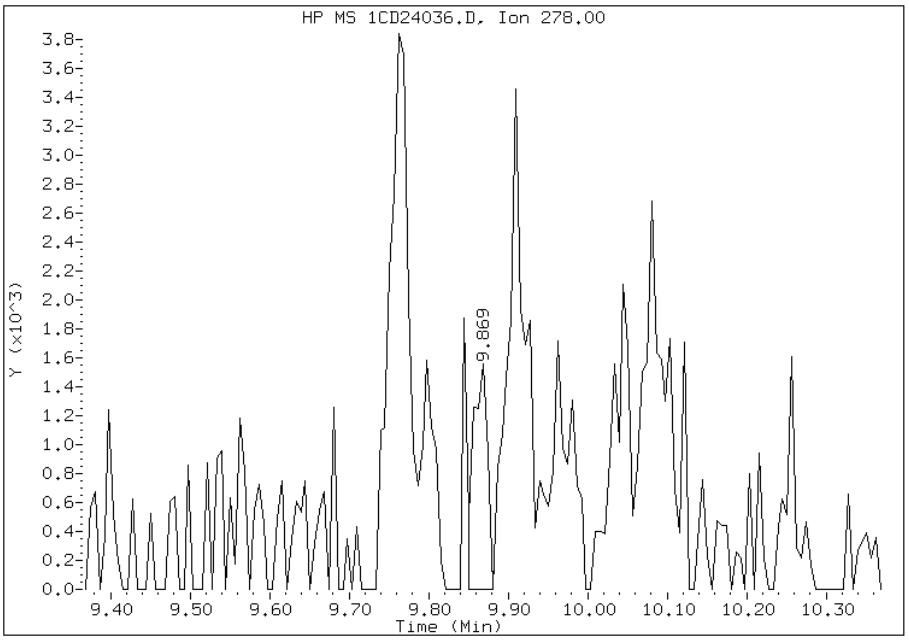
Processing Integration Results

RT: 9.87

Response: 1940

Amount: 0

Conc: 34



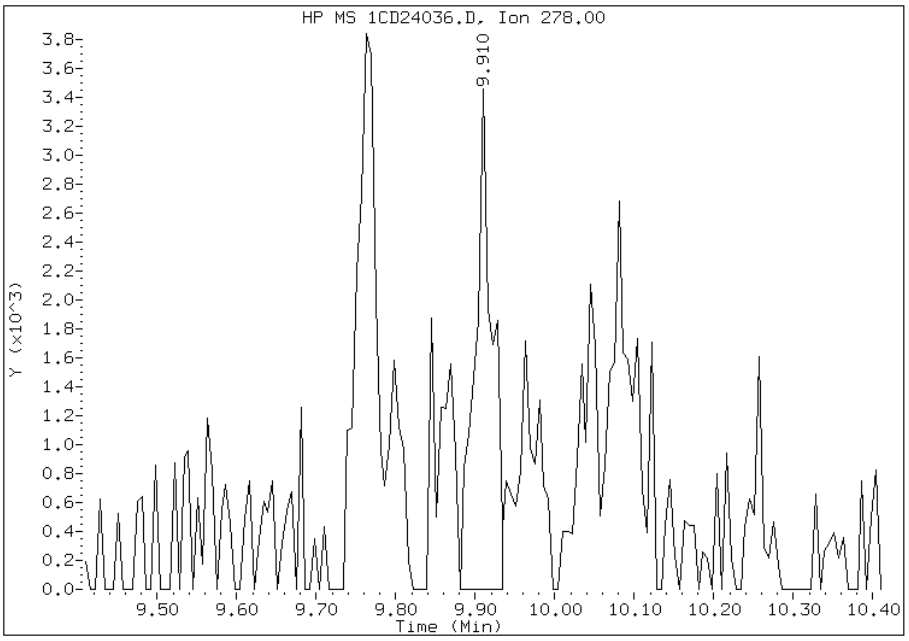
Manual Integration Results

RT: 9.91

Response: 5135

Amount: 1

Conc: 89



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24036.D
Inj. Date and Time: 24-APR-2013 23:04
Instrument ID: BSMC5973.i
Client ID: CV1334B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

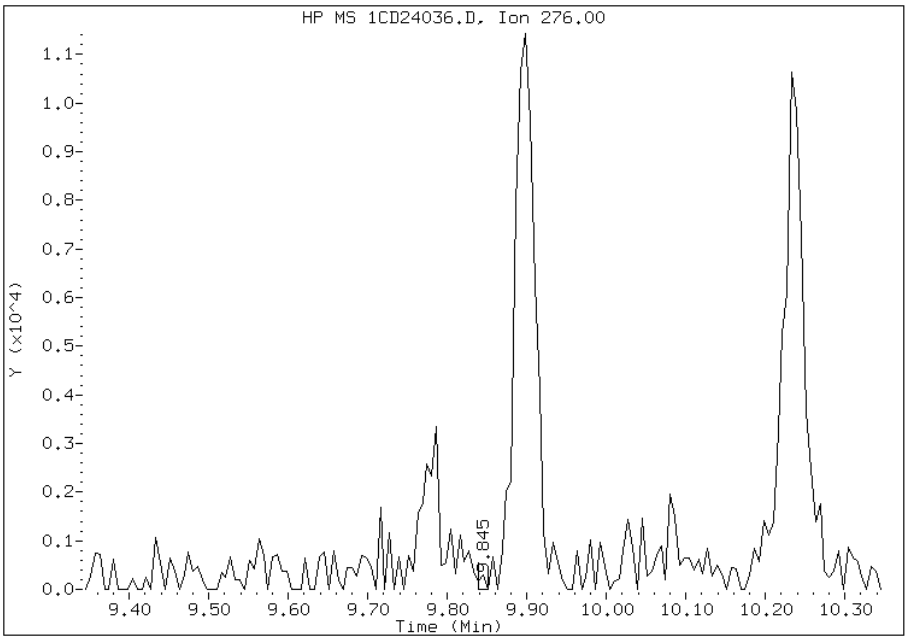
Processing Integration Results

RT: 9.85

Response: 168

Amount: 1

Conc: 53



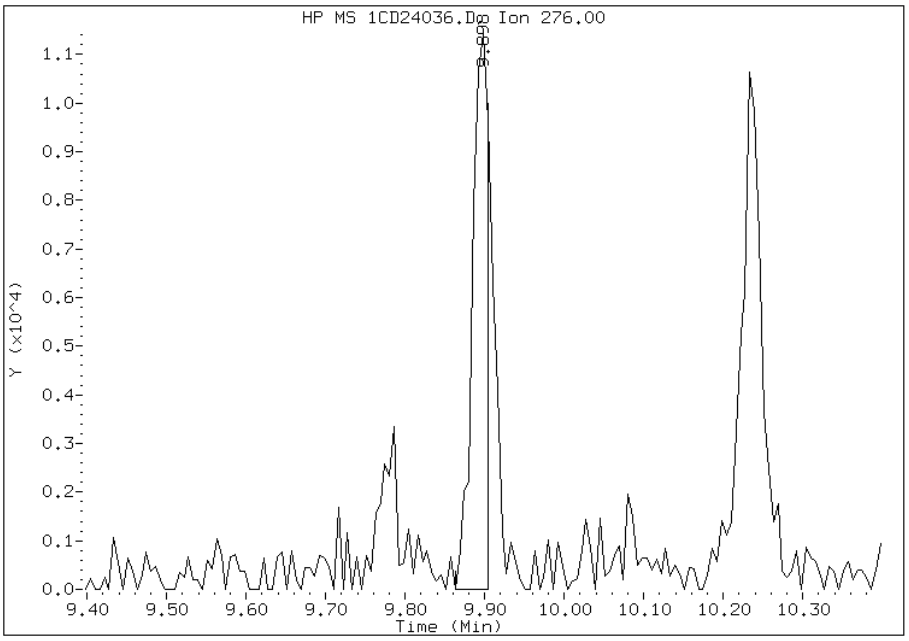
Manual Integration Results

RT: 9.90

Response: 15769

Amount: 4

Conc: 289



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0998A-CS | Lab Sample ID: 680-89513-18

Matrix: Solid | Lab File ID: 1CD24037.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:50

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 15.17(g) | Date Analyzed: 04/24/2013 23:23

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	71		48	6.0
120-12-7	Anthracene	130		10	5.1
56-55-3	Benzo[a]anthracene	730		9.6	4.7
50-32-8	Benzo[a]pyrene	780		13	6.3
205-99-2	Benzo[b]fluoranthene	1300		15	7.3
191-24-2	Benzo[g,h,i]perylene	650		24	5.3
207-08-9	Benzo[k]fluoranthene	480		9.6	4.3
218-01-9	Chrysene	630		11	5.4
53-70-3	Dibenz(a,h)anthracene	240		24	4.9
206-44-0	Fluoranthene	950		24	4.8
86-73-7	Fluorene	41		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	440		24	8.5
90-12-0	1-Methylnaphthalene	93		48	5.3
91-57-6	2-Methylnaphthalene	150		48	8.5
91-20-3	Naphthalene	110		48	5.3
85-01-8	Phenanthrene	550		9.6	4.7
129-00-0	Pyrene	860		24	4.5

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24037.D
Lab Smp Id: 680-89513-A-18-A Client Smp ID: CV0998A-CS
Inj Date : 24-APR-2013 23:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89513-a-18-a
Misc Info : 680-89513-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 33
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	17.833	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	160775	40.0000	
* 6 Acenaphthene-d10	164	4.722	4.722	(1.000)	107069	40.0000	
* 10 Phenanthrene-d10	188	5.669	5.663	(1.000)	206997	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	17359	5.77599	463.3862
* 18 Chrysene-d12	240	7.615	7.592	(1.000)	223438	40.0000	(H)
* 23 Perylene-d12	264	8.780	8.733	(1.000)	196567	40.0000	(H)
2 Naphthalene	128	3.651	3.646	(1.005)	5794	1.33381	107.0063(Q)
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	4141	1.88088	150.8957
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	3090	1.15320	92.5172
5 Acenaphthylene	152	4.639	4.634	(0.983)	2700	0.89034	71.4284
9 Fluorene	166	5.063	5.057	(1.072)	1881	0.50899	40.8342
11 Phenanthrene	178	5.686	5.675	(1.003)	38684	6.82541	547.5773
12 Anthracene	178	5.721	5.710	(1.009)	8840	1.56549	125.5934
13 Carbazole	167	5.833	5.822	(1.029)	6025	1.05762	84.8486

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.521	6.504	(1.150)	81353	11.8641	951.8103
16 Pyrene	202	6.686	6.675	(0.878)	70983	10.7568	862.9784(H)
17 Benzo(a)anthracene	228	7.610	7.581	(0.999)	53459	9.15382	734.3768(M)
19 Chrysene	228	7.633	7.610	(1.002)	50146	7.85939	630.5294(H)
20 Benzo(b)fluoranthene	252	8.445	8.410	(0.962)	91171	16.7704	1345.4237(MH)
21 Benzo(k)fluoranthene	252	8.462	8.428	(0.964)	31619	5.97751	479.5533(QMH)
22 Benzo(a)pyrene	252	8.727	8.686	(0.994)	51533	9.77350	784.0920(H)
24 Indeno(1,2,3-cd)pyrene	276	9.909	9.833	(1.129)	26481	5.46370	438.3322(MH)
25 Dibenzo(a,h)anthracene	278	9.921	9.851	(1.130)	14342	3.00893	241.3955(MH)
26 Benzo(g,h,i)perylene	276	10.251	10.163	(1.167)	40421	8.14405	653.3669(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: 1CD24037.D

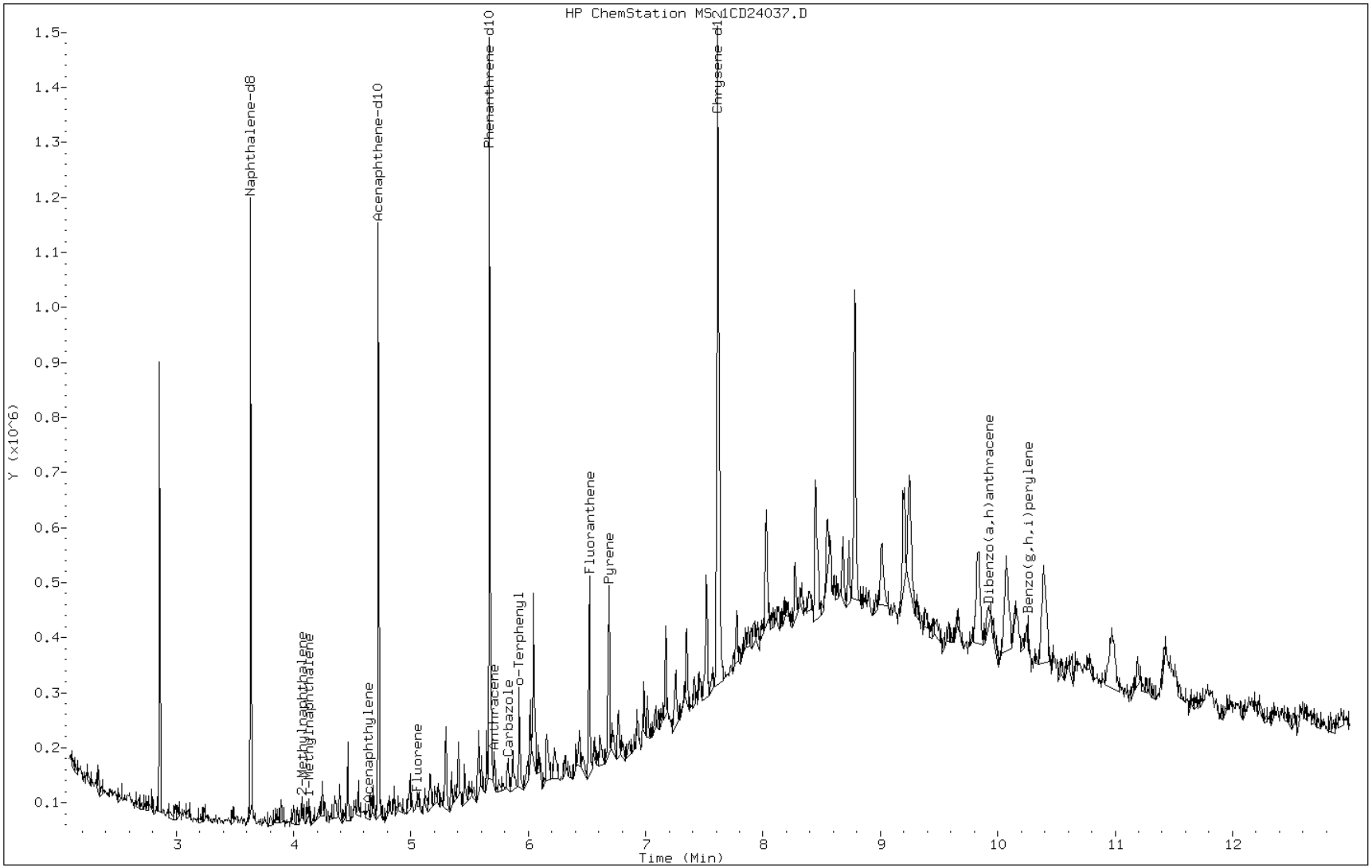
Date: 24-APR-2013 23:23

Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

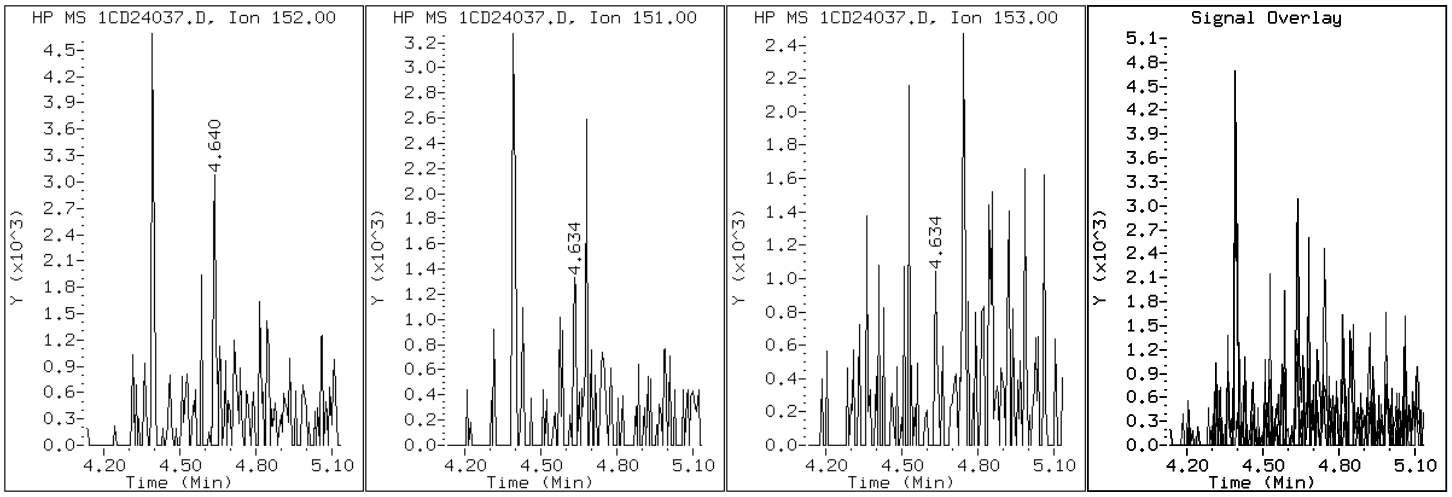
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

5 Acenaphthylene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

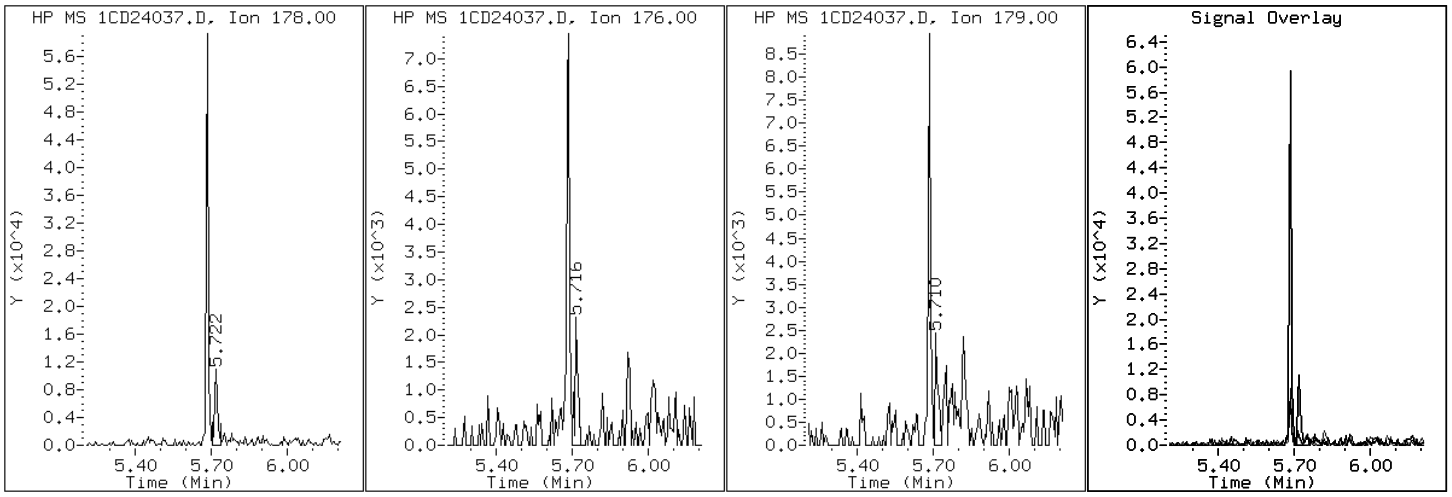
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

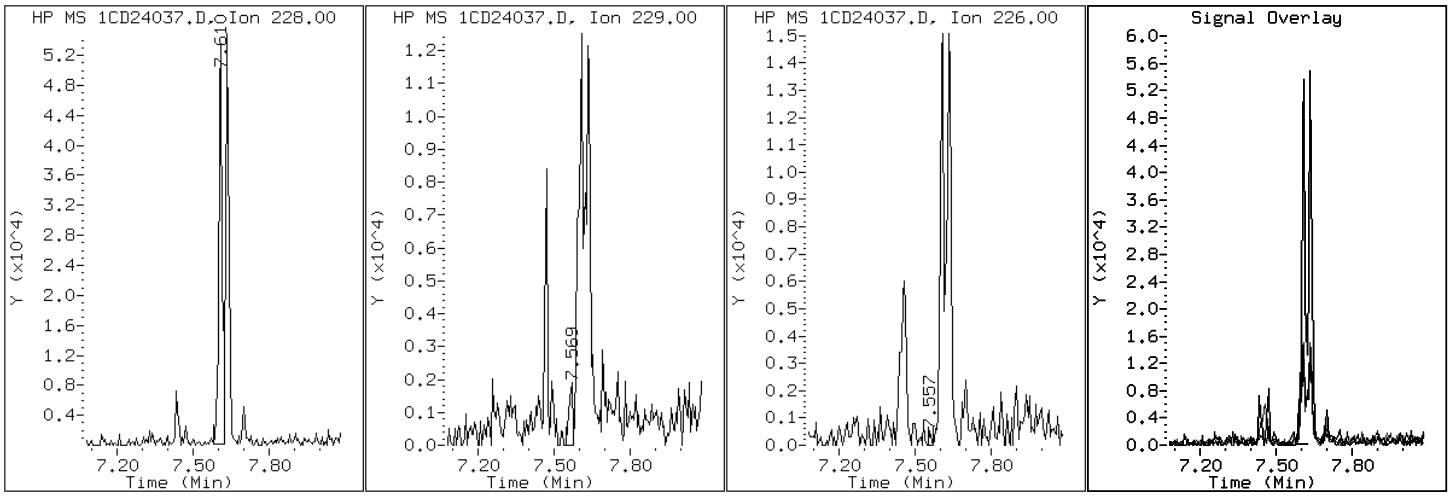
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

17 Benzo(a)anthracene



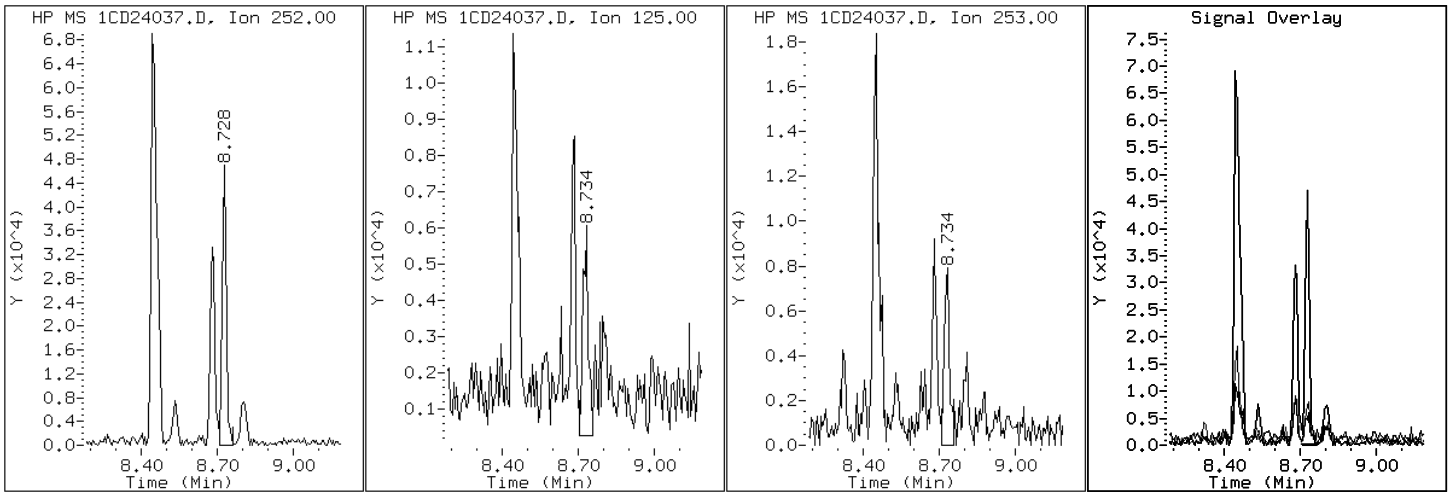
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

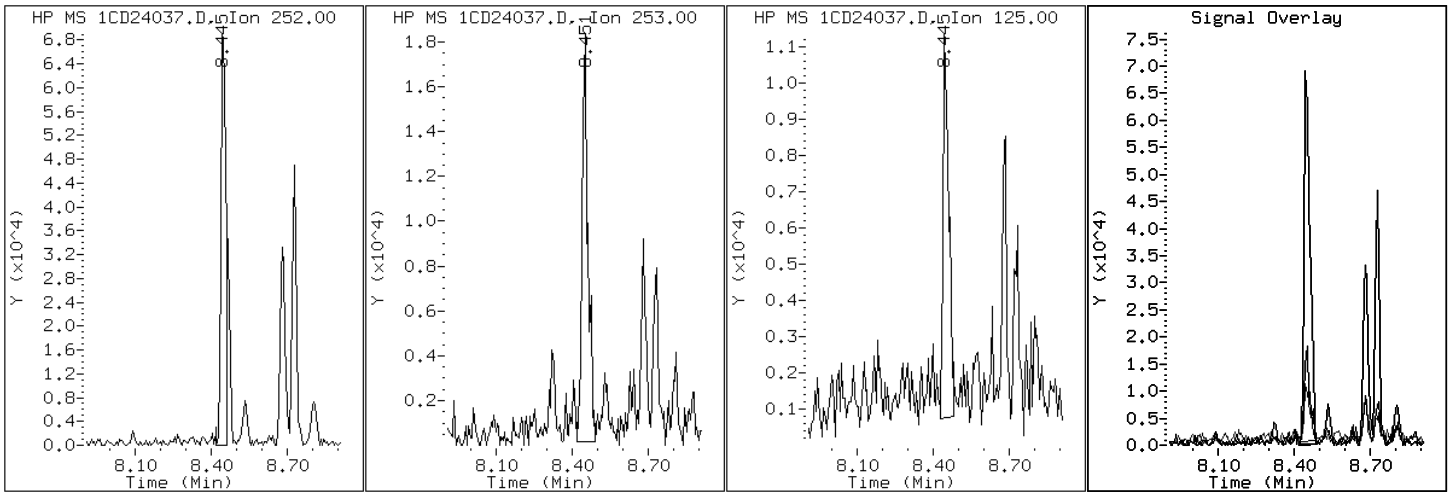
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

20 Benzo(b)fluoranthene



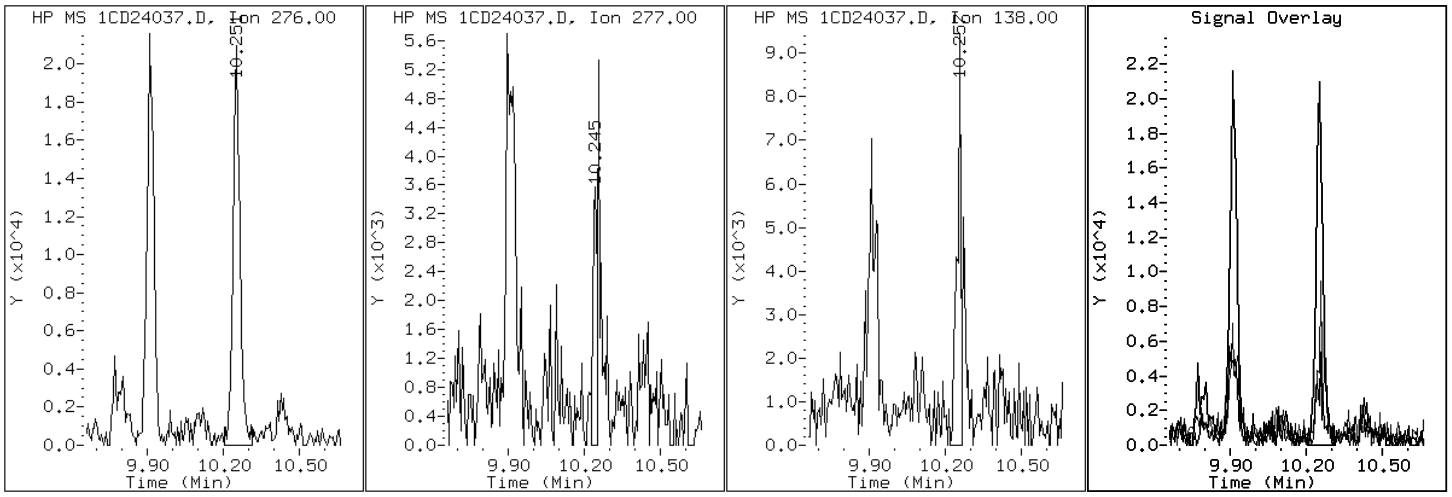
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

26 Benzo(g,h,i)perylene



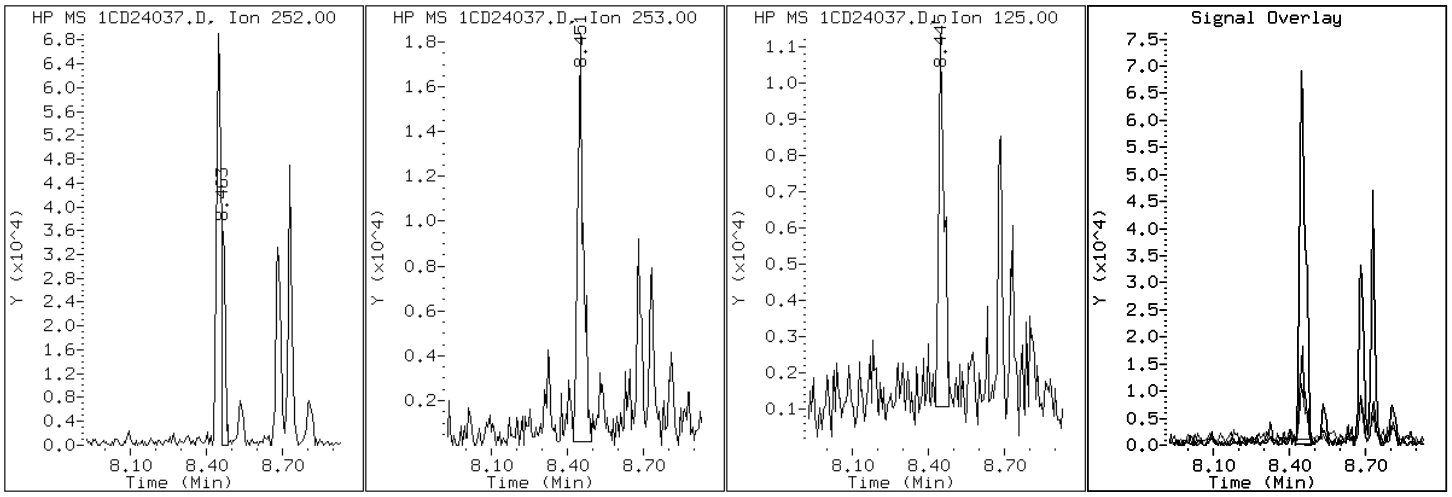
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

21 Benzo(k)fluoranthene



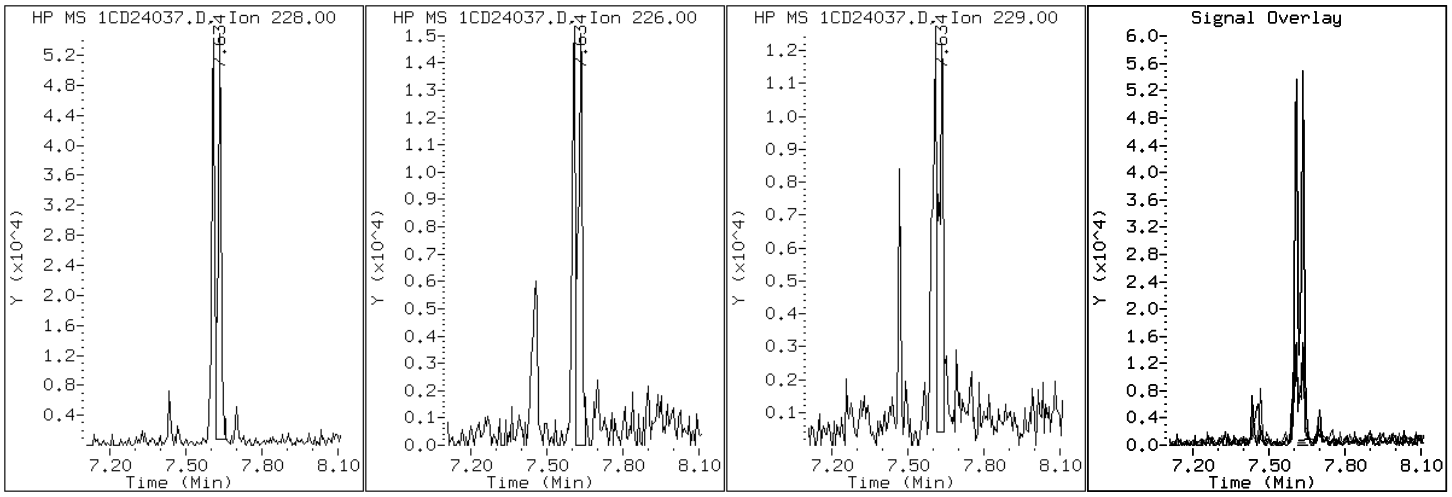
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

19 Chrysene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

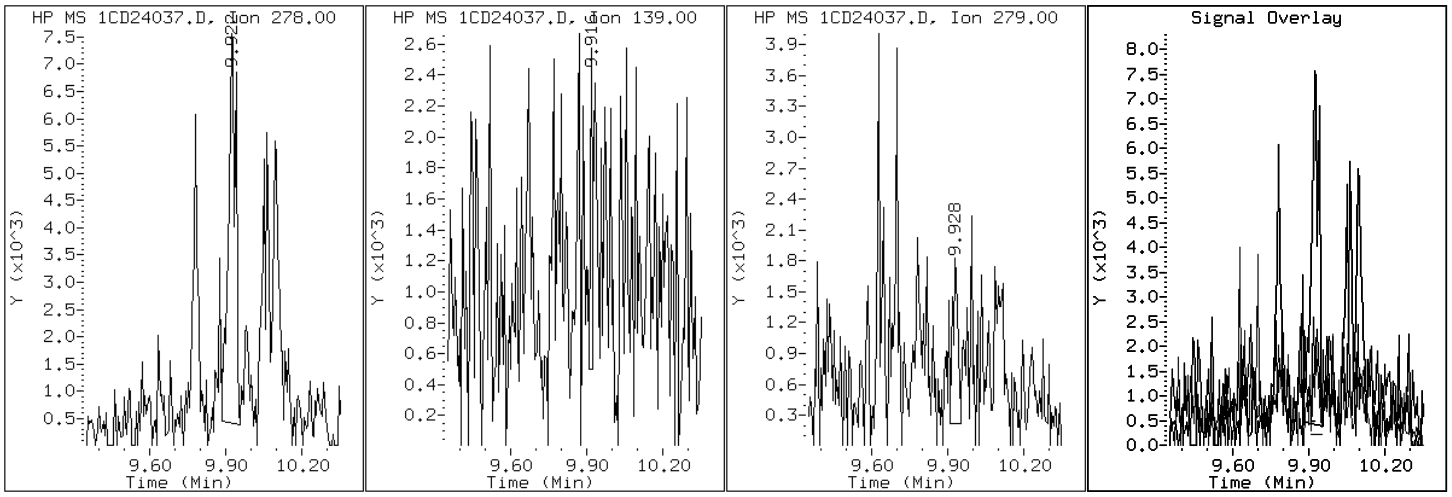
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

25 Dibenzo(a,h)anthracene



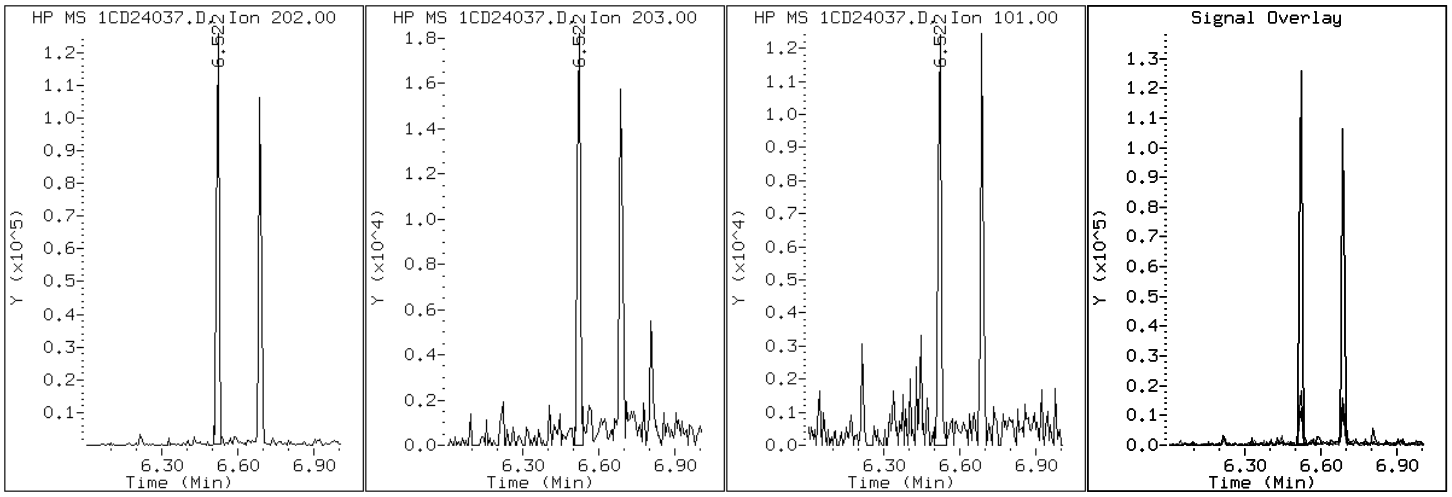
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

15 Fluoranthene



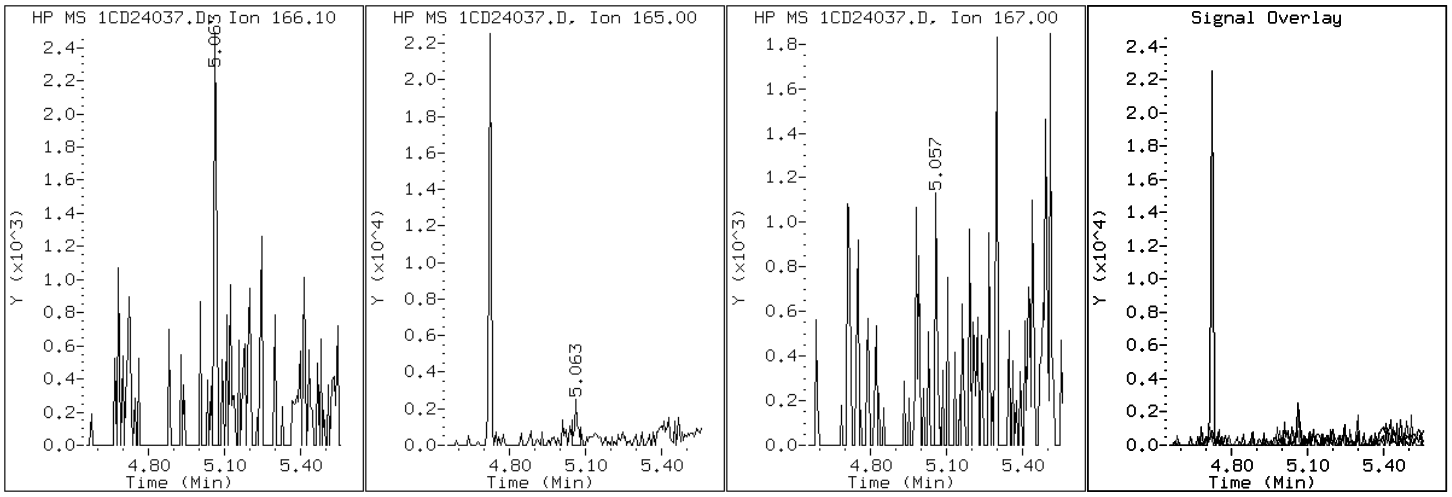
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

9 Fluorene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

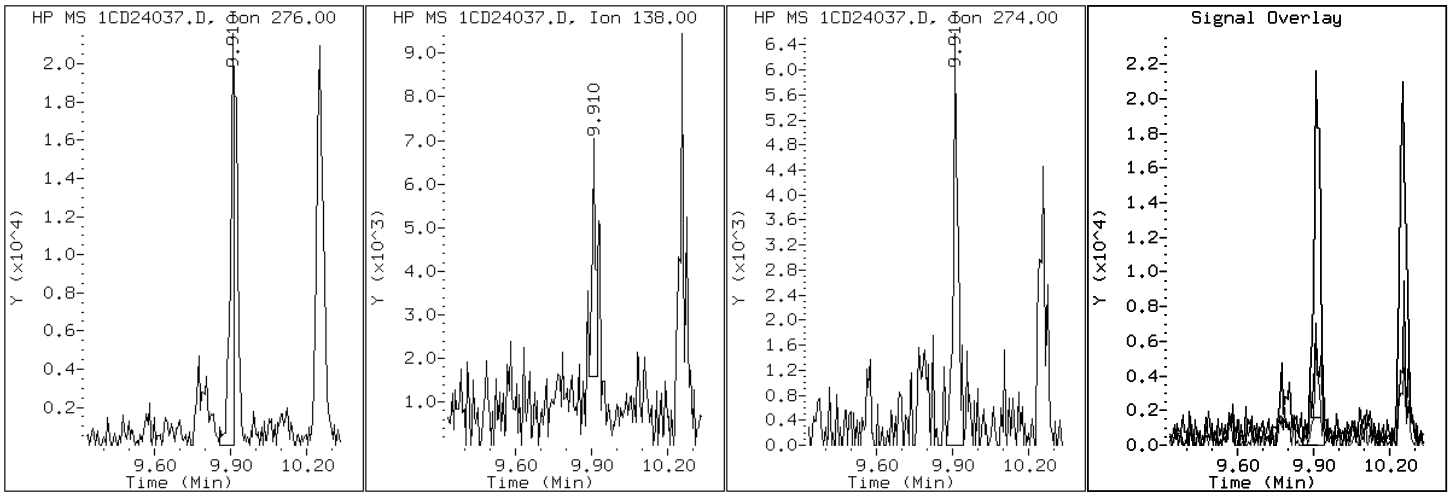
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

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



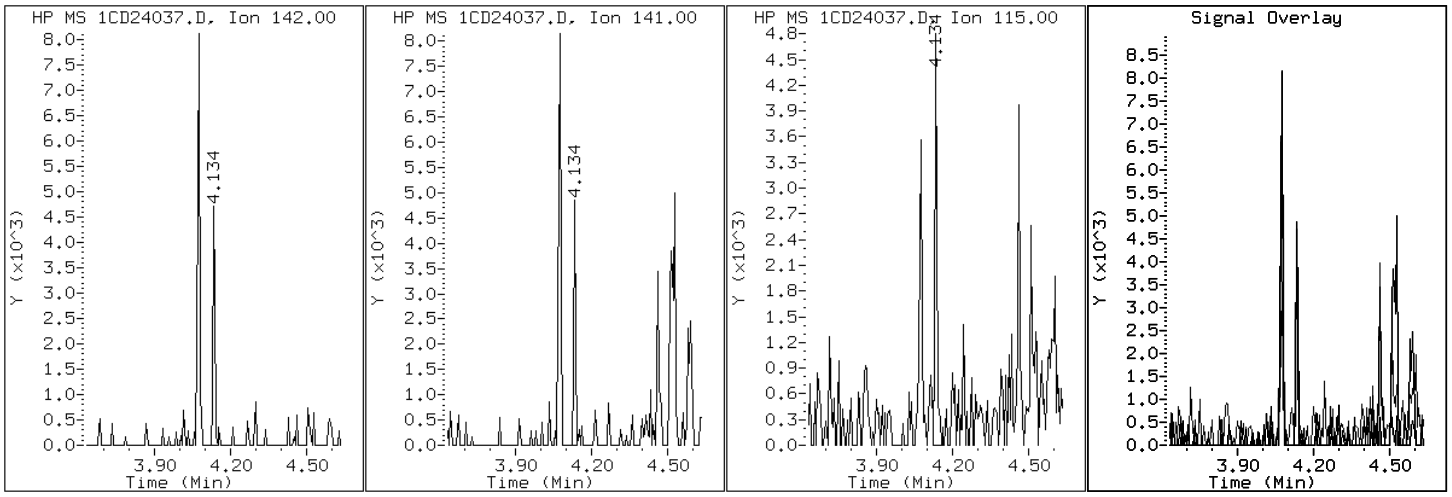
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

4 1-Methylnaphthalene



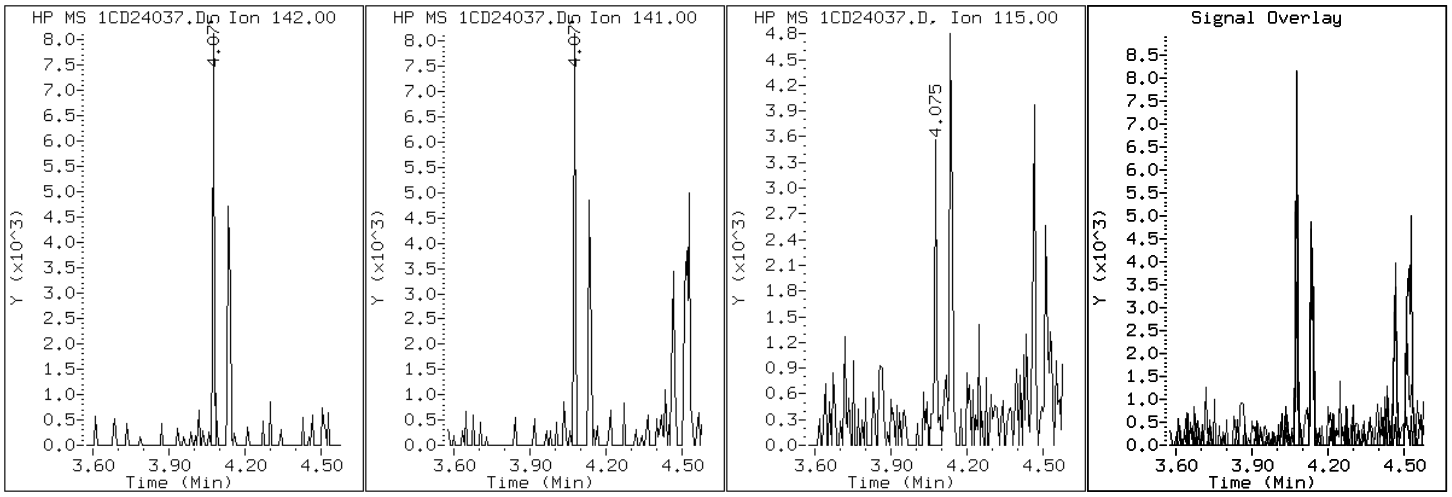
Data File: 1CD24037.D

Date: 24-APR-2013 23:23

Client ID: CV0998A-CS Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

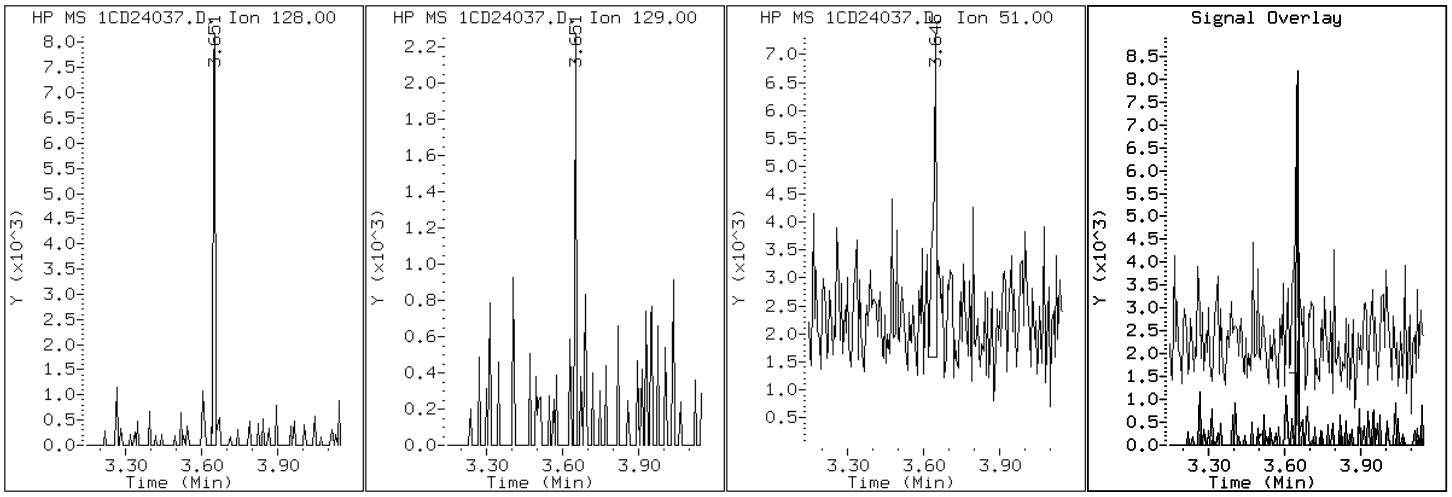
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

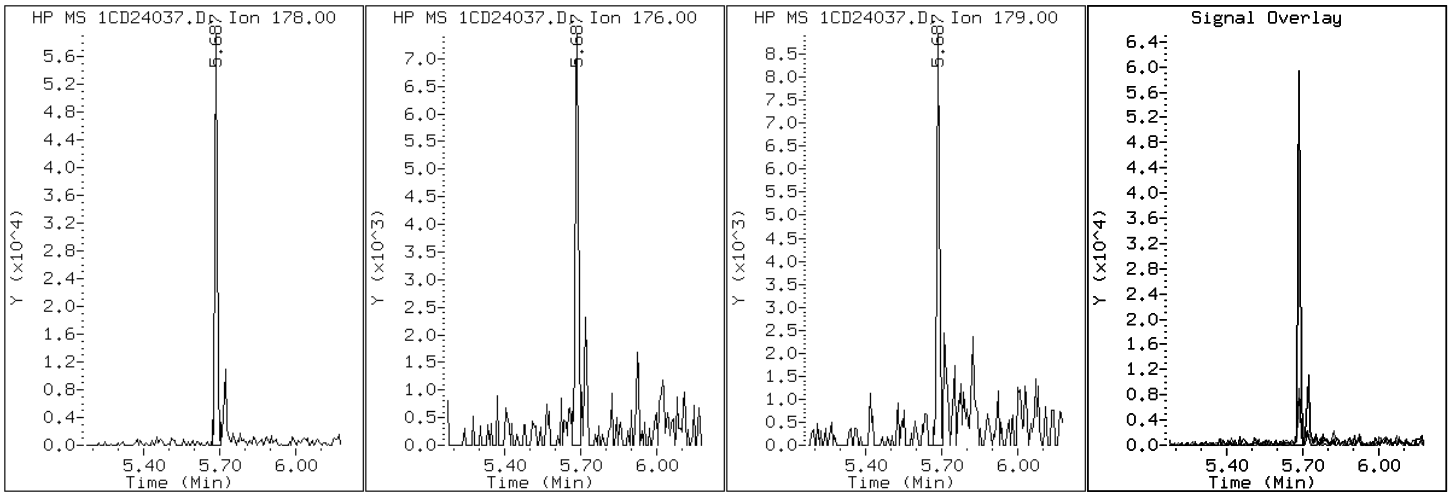
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CD24037.D

Date: 24-APR-2013 23:23

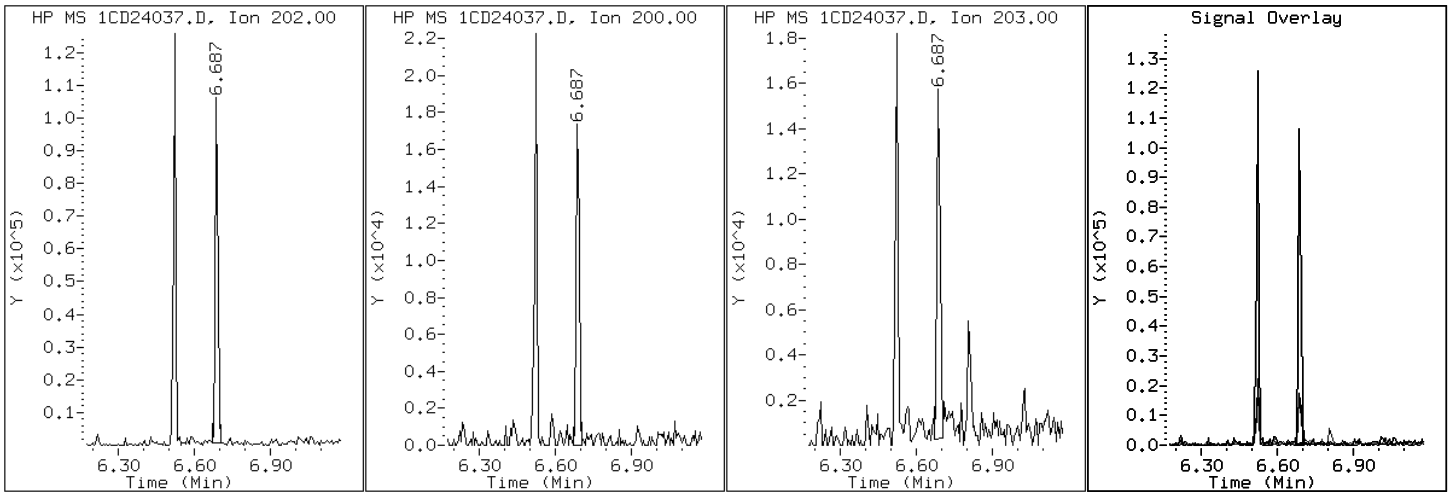
Client ID: CV0998A-CS

Instrument: BSMC5973.i

Sample Info: 680-89513-a-18-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 17 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 04/25/2013

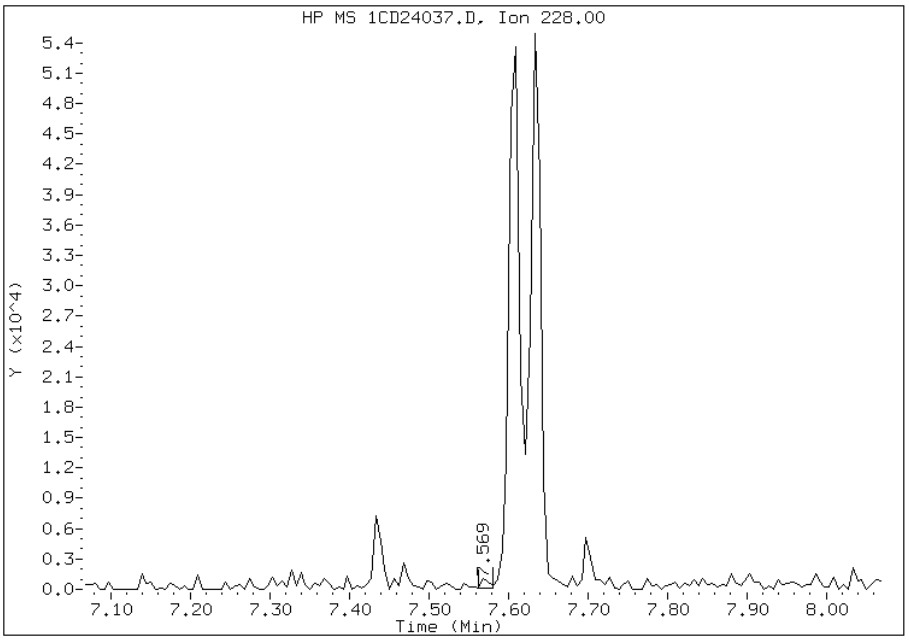
Processing Integration Results

RT: 7.57

Response: 568

Amount: 0

Conc: 0



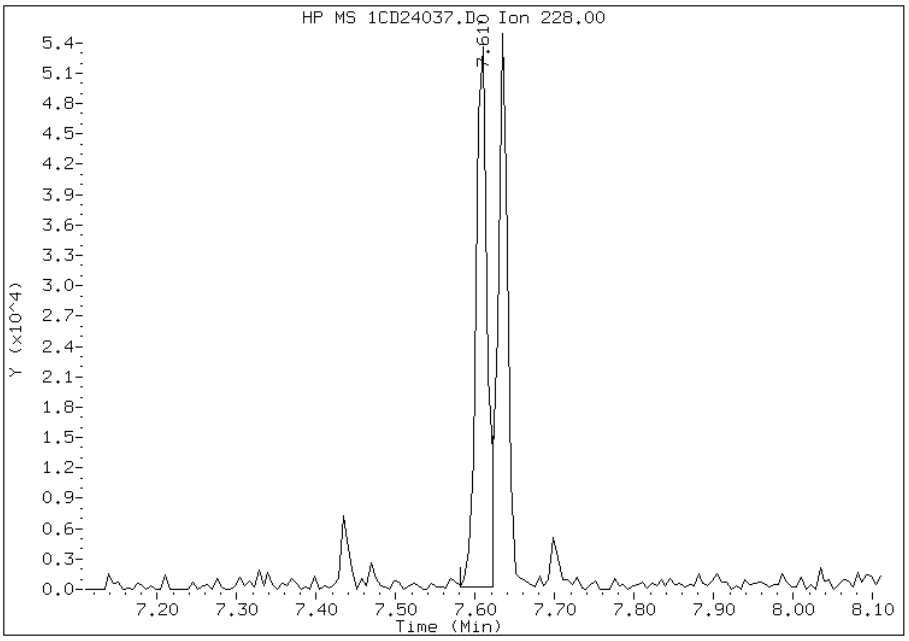
Manual Integration Results

RT: 7.61

Response: 53459

Amount: 9

Conc: 734



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:00
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/25/2013

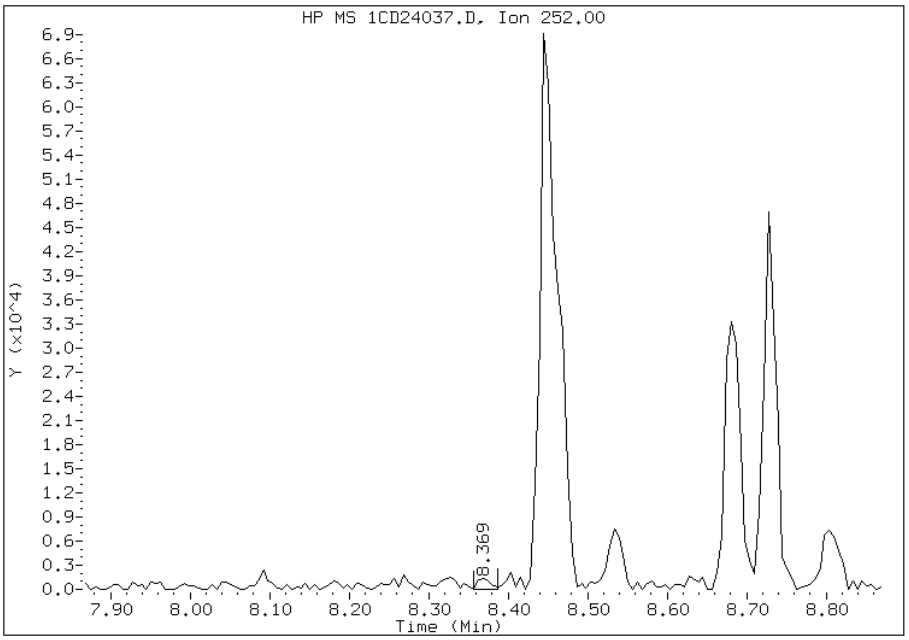
Processing Integration Results

RT: 8.37

Response: 1520

Amount: 0

Conc: 22



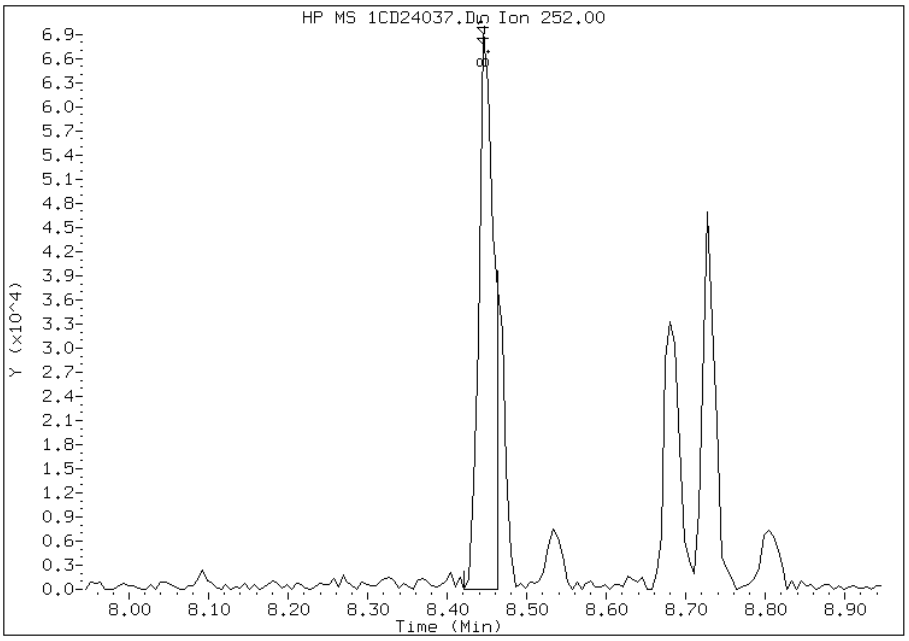
Manual Integration Results

RT: 8.45

Response: 91171

Amount: 17

Conc: 1345



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

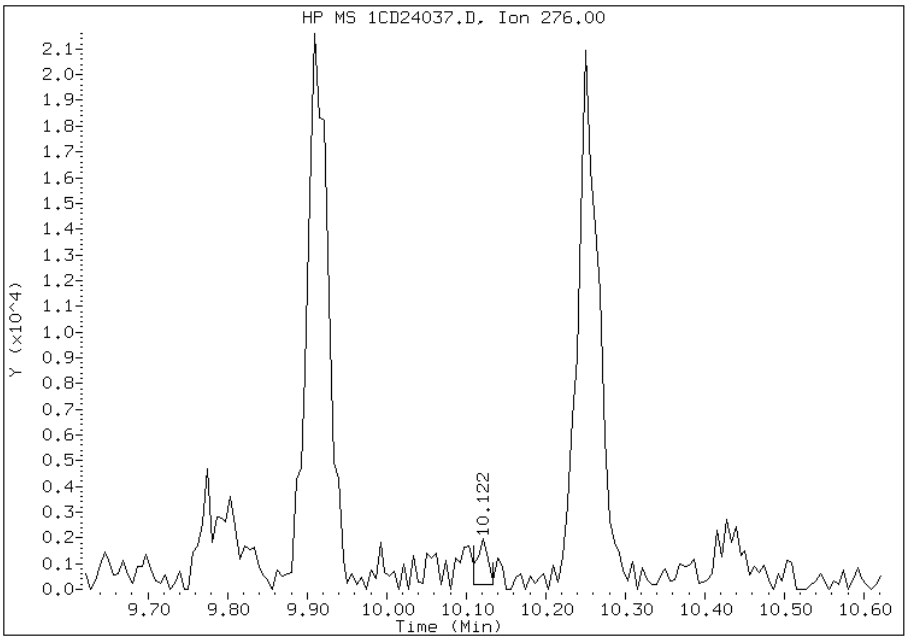
Processing Integration Results

RT: 10.12

Response: 1690

Amount: 0

Conc: 27



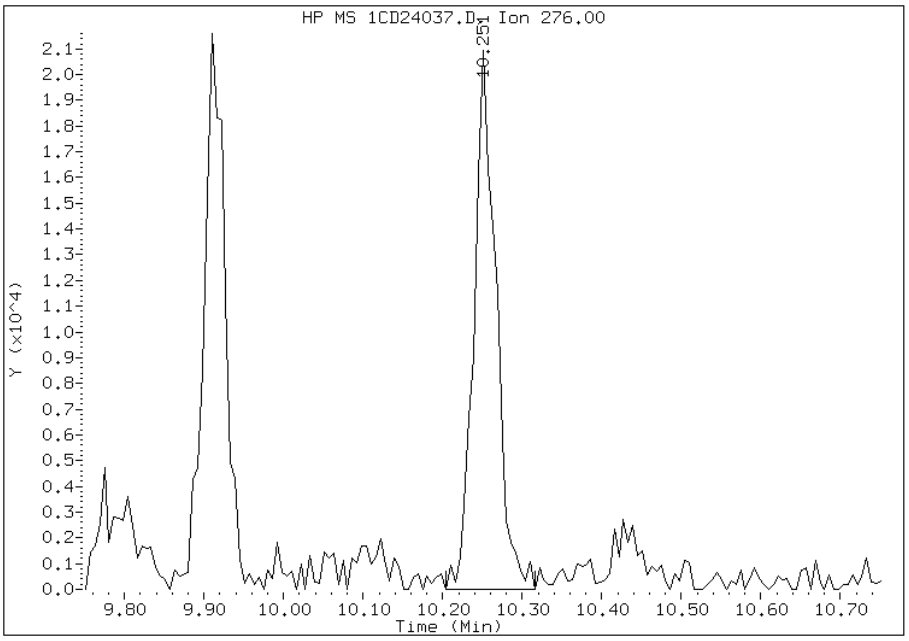
Manual Integration Results

RT: 10.25

Response: 40421

Amount: 8

Conc: 653



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/25/2013

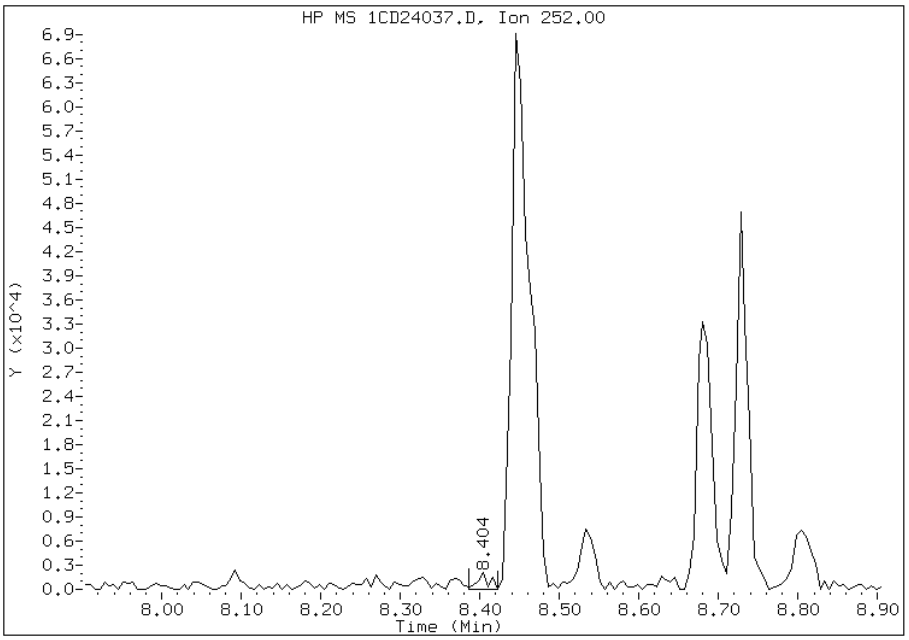
Processing Integration Results

RT: 8.40

Response: 2023

Amount: 0

Conc: 31



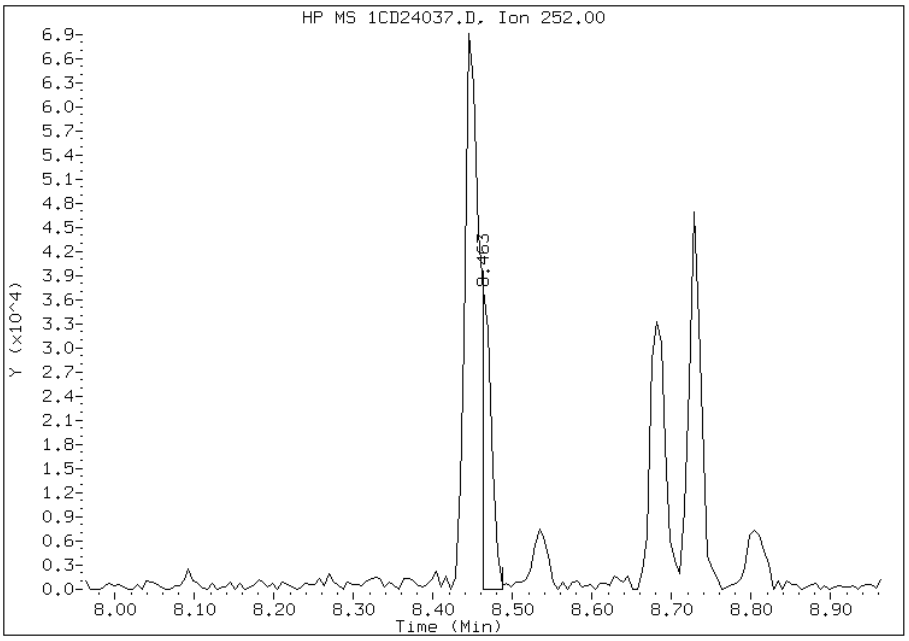
Manual Integration Results

RT: 8.46

Response: 31619

Amount: 6

Conc: 480



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

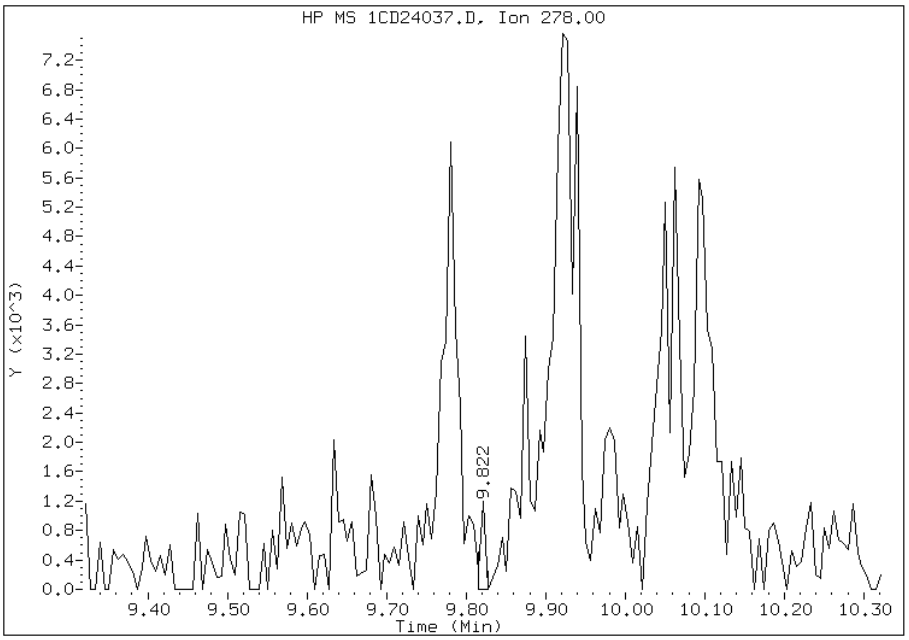
Processing Integration Results

RT: 9.82

Response: 519

Amount: 0

Conc: 9



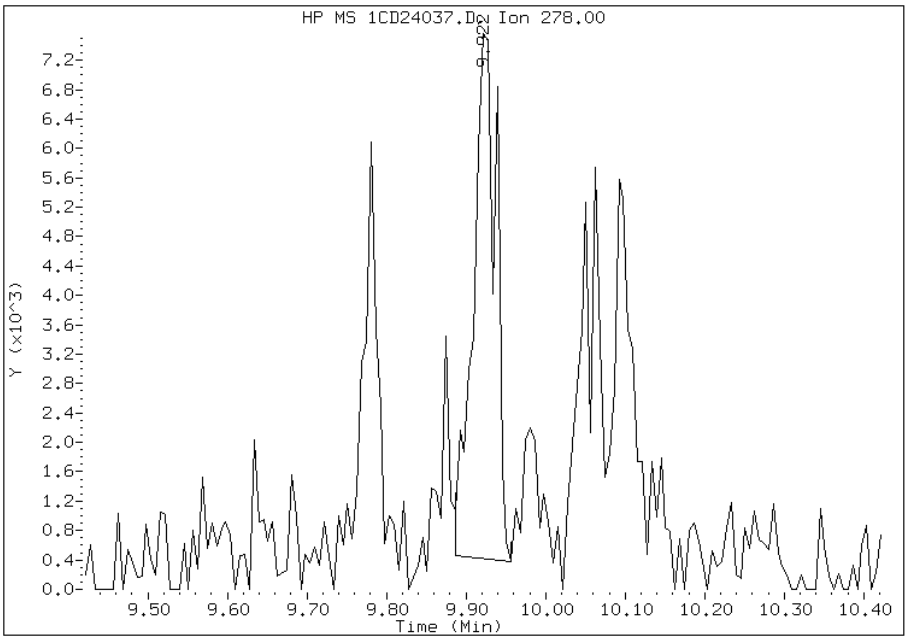
Manual Integration Results

RT: 9.92

Response: 14342

Amount: 3

Conc: 241



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24037.D
Inj. Date and Time: 24-APR-2013 23:23
Instrument ID: BSMC5973.i
Client ID: CV0998A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

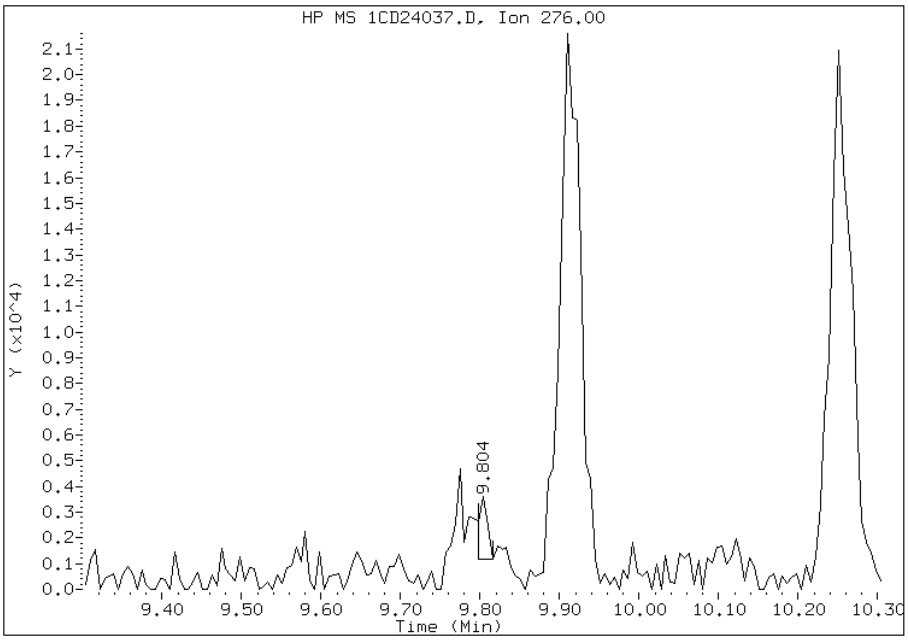
Processing Integration Results

RT: 9.80

Response: 1833

Amount: 1

Conc: 77



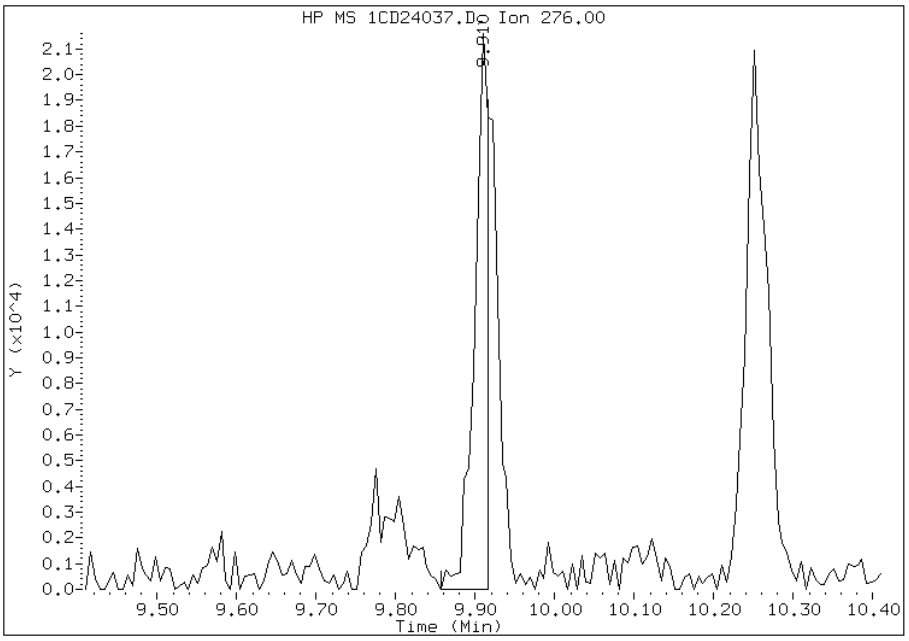
Manual Integration Results

RT: 9.91

Response: 26481

Amount: 5

Conc: 438



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1087A-CS | Lab Sample ID: 680-89513-19

Matrix: Solid | Lab File ID: 1DD24022.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:10

Extract. Method: 3546 | Date Extracted: 04/23/2013 14:49

Sample wt/vol: 15.19(g) | Date Analyzed: 04/24/2013 19:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136826 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	460	U	460	92
208-96-8	Acenaphthylene	590		180	23
120-12-7	Anthracene	580		39	19
56-55-3	Benzo[a]anthracene	600		37	18
50-32-8	Benzo[a]pyrene	660		48	24
205-99-2	Benzo[b]fluoranthene	1200		56	28
191-24-2	Benzo[g,h,i]perylene	390		92	20
207-08-9	Benzo[k]fluoranthene	470		37	17
218-01-9	Chrysene	840		42	21
53-70-3	Dibenz(a,h)anthracene	140		92	19
206-44-0	Fluoranthene	1400		92	18
86-73-7	Fluorene	63	J	92	19
193-39-5	Indeno[1,2,3-cd]pyrene	330		92	33
90-12-0	1-Methylnaphthalene	170	J	180	20
91-57-6	2-Methylnaphthalene	140	J	180	33
91-20-3	Naphthalene	140	J	180	20
85-01-8	Phenanthrene	1100		37	18
129-00-0	Pyrene	1100		92	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24022.D
Lab Smp Id: 680-89513-A-19-A Client Smp ID: CV1087A-CS
Inj Date : 24-APR-2013 19:55
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89513-A-19-A
Misc Info : 680-89513-A-19-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: 22
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	14.561	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.054	6.049	(1.000)	2261970	40.0000	
* 6 Acenaphthene-d10	164	7.734	7.730	(1.000)	1418036	40.0000	
* 9 Phenanthrene-d10	188	8.997	8.993	(1.000)	2311101	40.0000	
$ 13 o-Terphenyl	230	9.297	9.298	(1.033)	35013	1.00548	310
* 17 Chrysene-d12	240	11.306	11.302	(1.000)	2616680	40.0000	
* 22 Perylene-d12	264	13.133	13.123	(1.000)	2376800	40.0000	
2 Naphthalene	128	6.071	6.073	(1.003)	25066	0.44584	140
3 2-Methylnaphthalene	142	6.776	6.778	(1.119)	16842	0.46405	140
4 1-Methylnaphthalene	142	6.870	6.872	(1.135)	19167	0.55924	170
5 Acenaphthylene	152	7.605	7.600	(0.983)	115791	1.92929	590
8 Fluorene	166	8.198	8.200	(1.060)	8967	0.20440	63
10 Phenanthrene	178	9.009	9.010	(1.001)	226835	3.56331	1100
11 Anthracene	178	9.050	9.052	(1.006)	118843	1.88094	580
12 Carbazole	167	9.191	9.193	(1.022)	37579	0.67429	210

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.996	9.997	(1.111)	289013	4.41189	1400
15 Pyrene	202	10.184	10.185	(0.901)	271312	3.45274	1100
16 Benzo(a)anthracene	228	11.294	11.284	(0.999)	146914	1.94193	600
18 Chrysene	228	11.330	11.331	(1.002)	193371	2.72599	840
19 Benzo(b)fluoranthene	252	12.587	12.583	(0.958)	224076	3.77404	1200
20 Benzo(k)fluoranthene	252	12.616	12.618	(0.961)	96382	1.54089	470
21 Benzo(a)pyrene	252	13.034	13.029	(0.992)	128705	2.15745	660
23 Indeno(1,2,3-cd)pyrene	276	14.708	14.710	(1.120)	67785	1.06562	330(M)
24 Dibenzo(a,h)anthracene	278	14.726	14.733	(1.121)	26250	0.43822	140
25 Benzo(g,h,i)perylene	276	15.143	15.150	(1.153)	77426	1.26413	390

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD24022.D

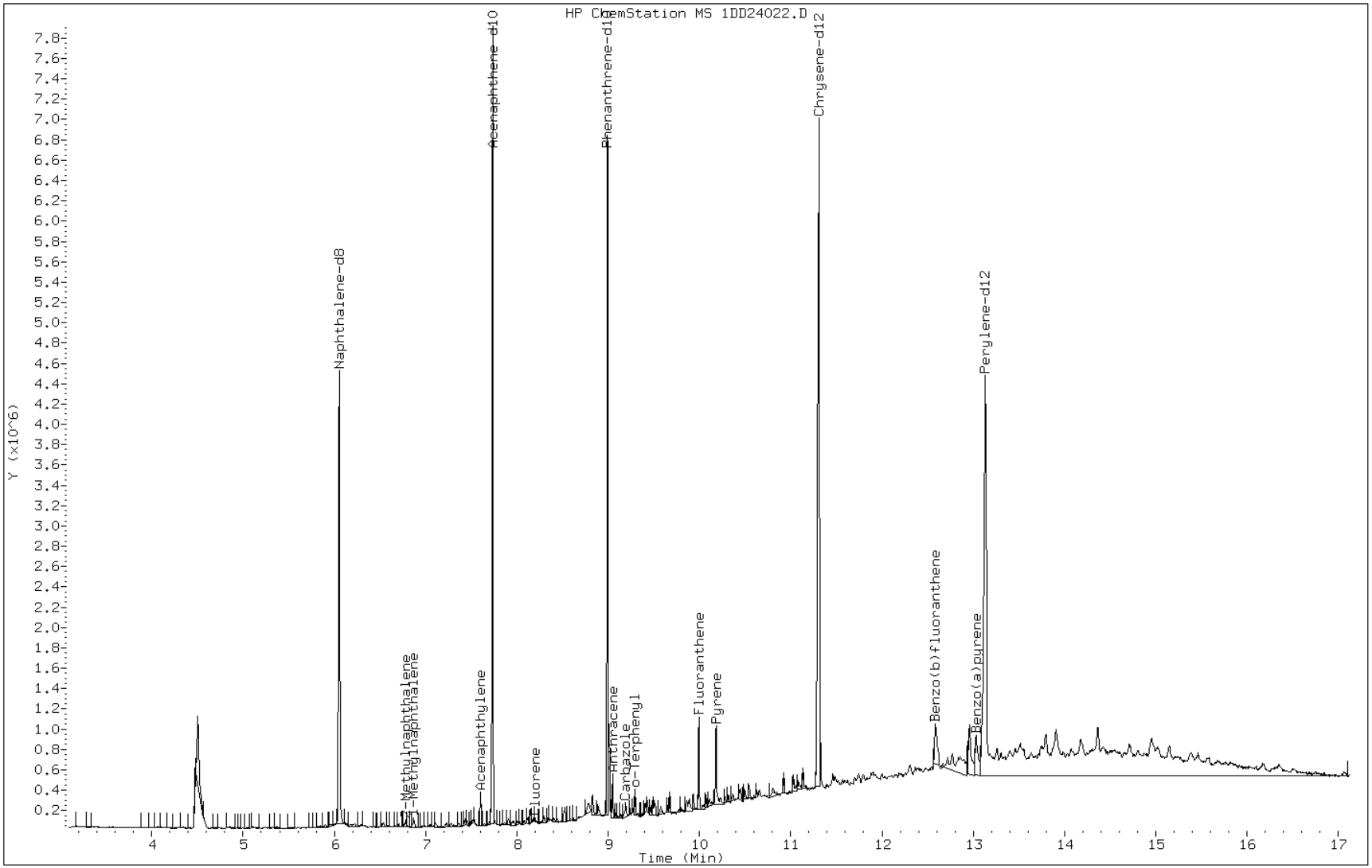
Date: 24-APR-2013 19:55

Client ID: CV1087A-CS

Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A

Operator: SCC



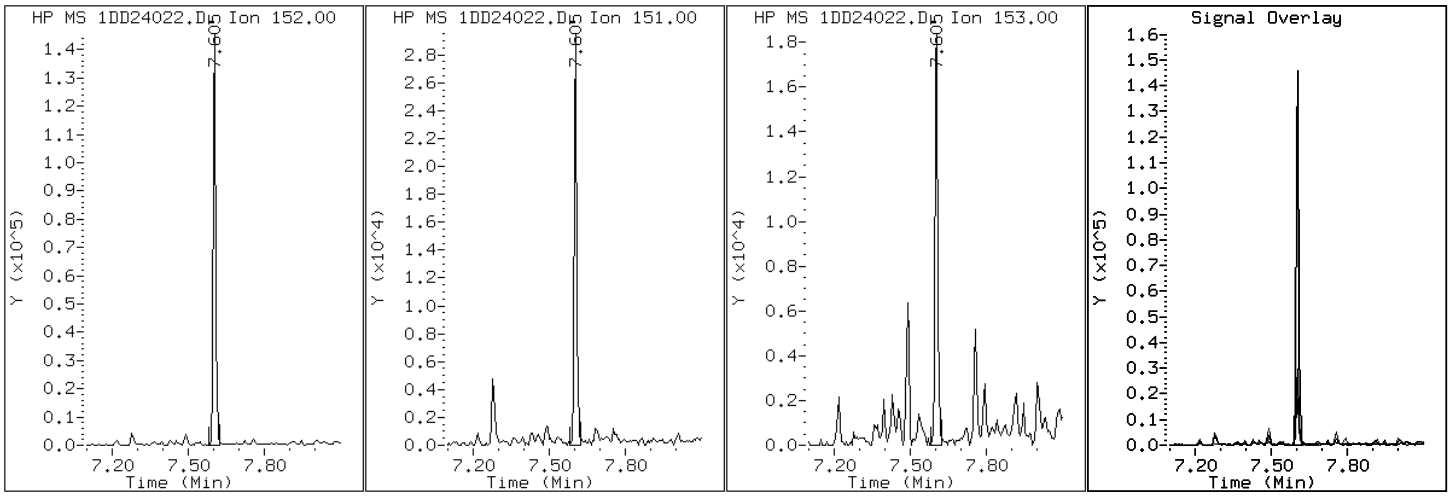
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

5 Acenaphthylene



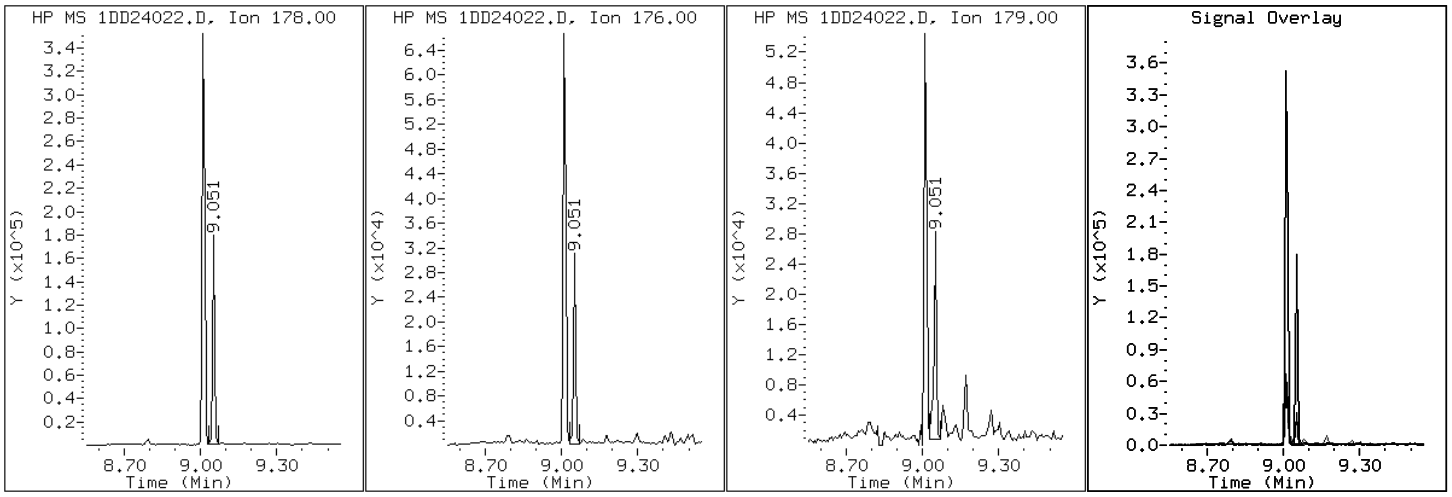
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

11 Anthracene



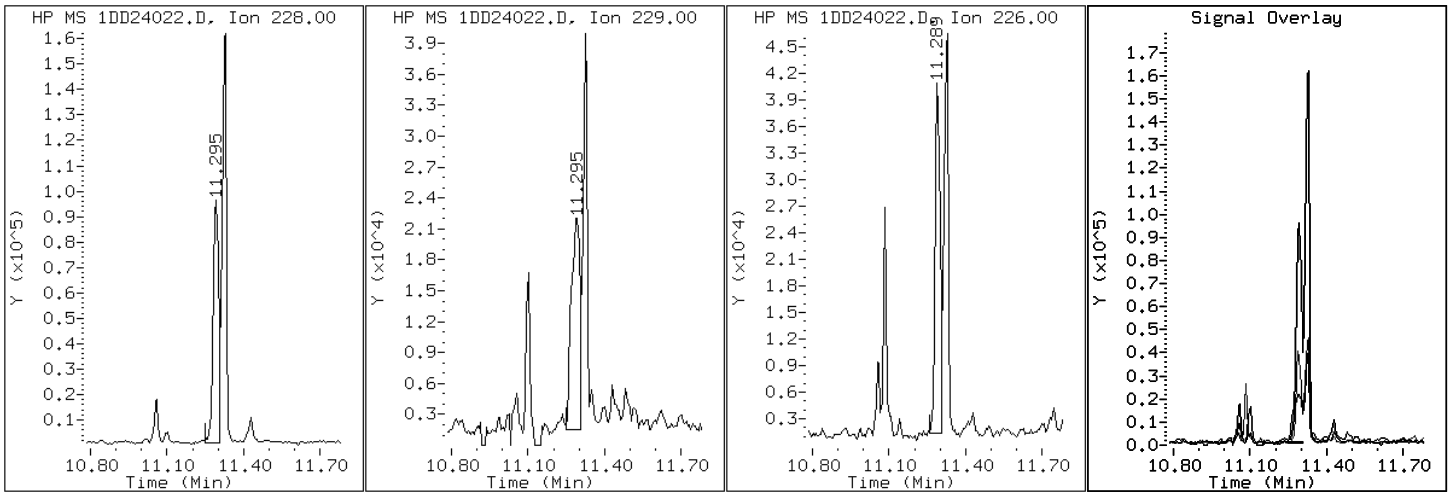
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

16 Benzo(a)anthracene



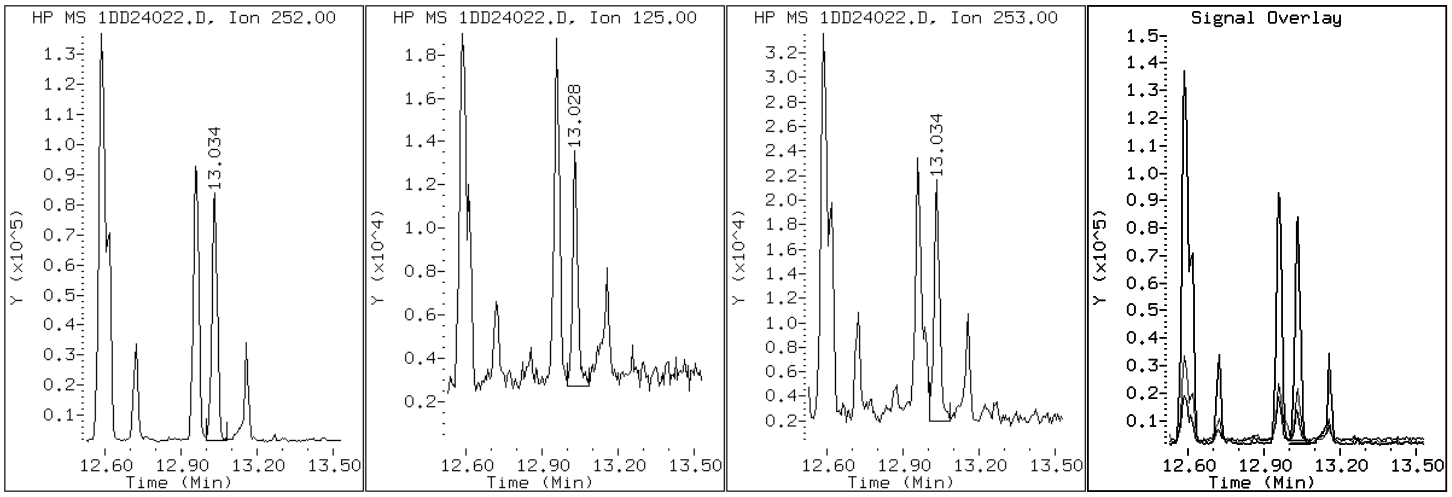
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

21 Benzo(a)pyrene



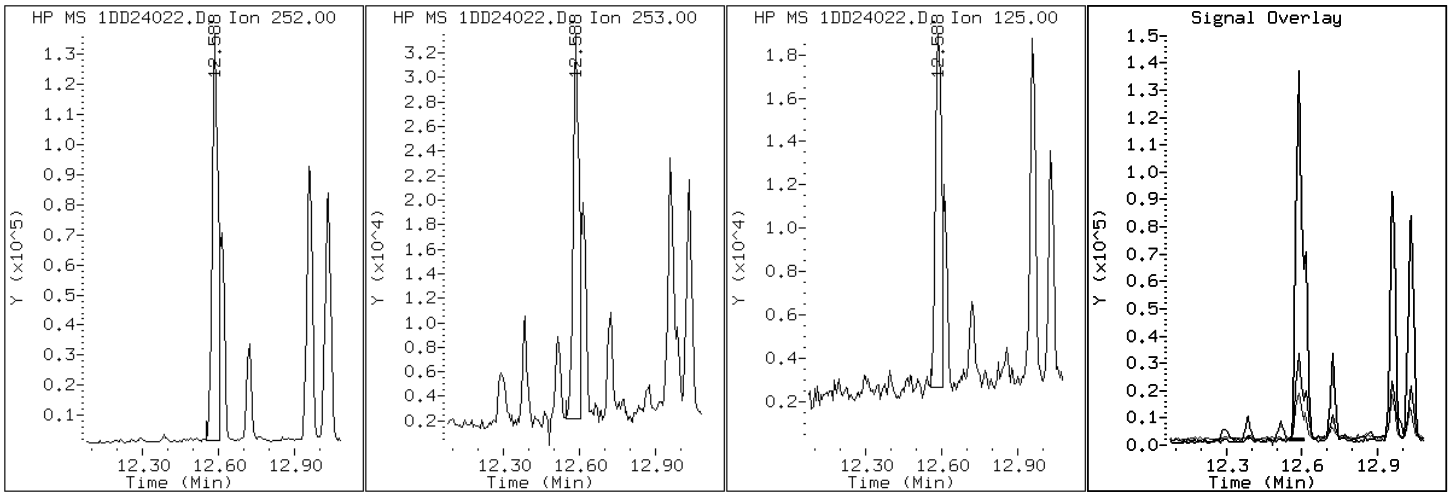
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

19 Benzo(b)fluoranthene



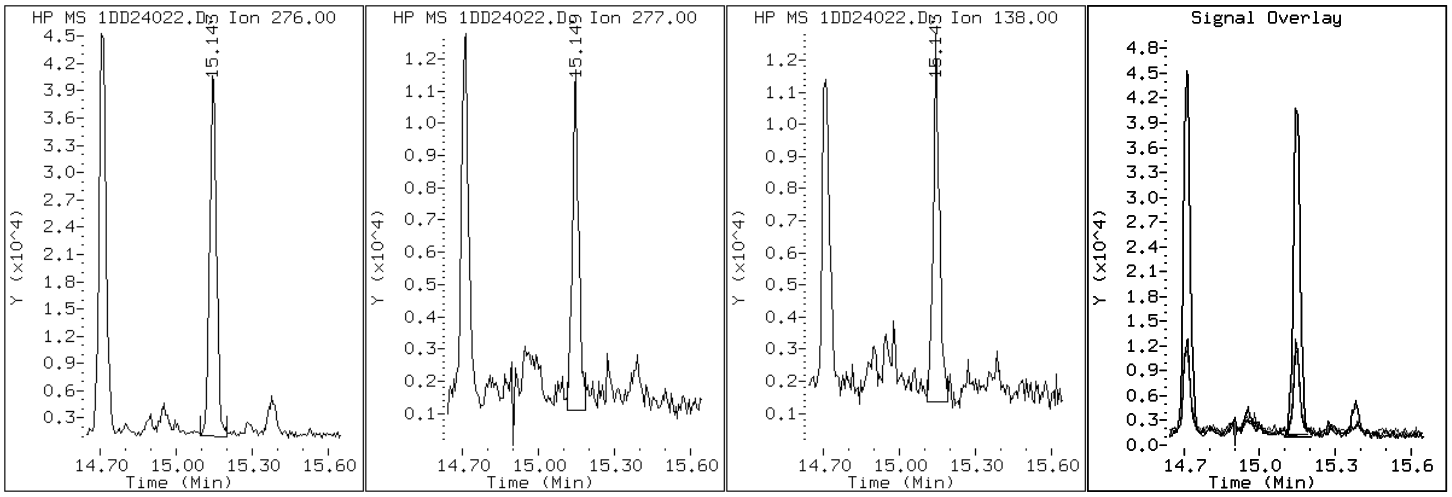
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

25 Benzo(g,h,i)perylene



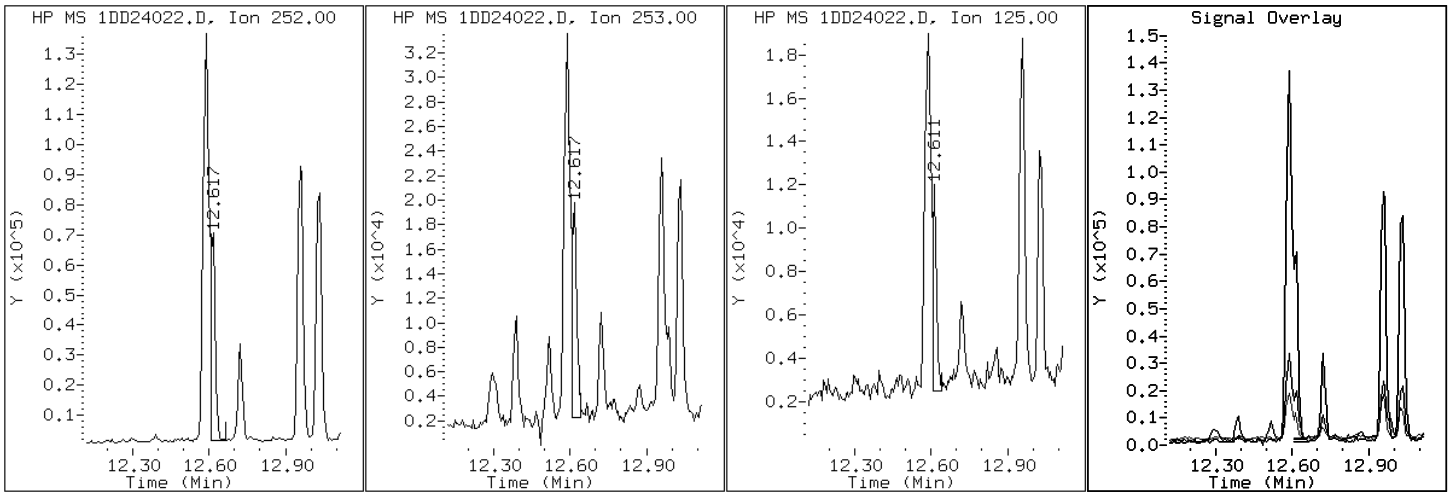
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

20 Benzo(k)fluoranthene



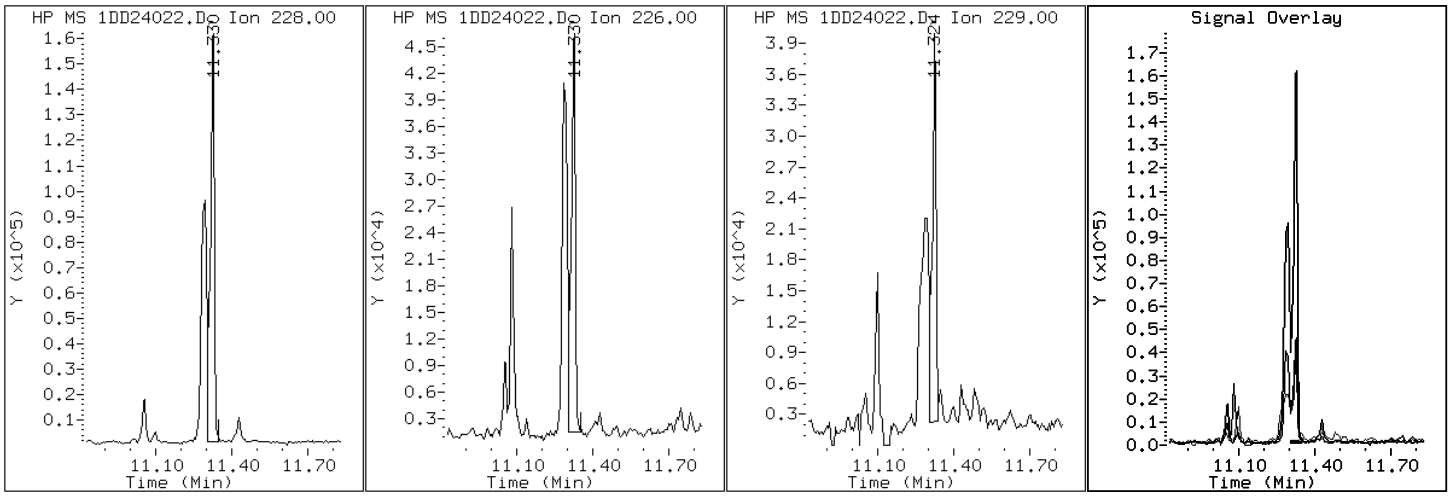
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

18 Chrysene



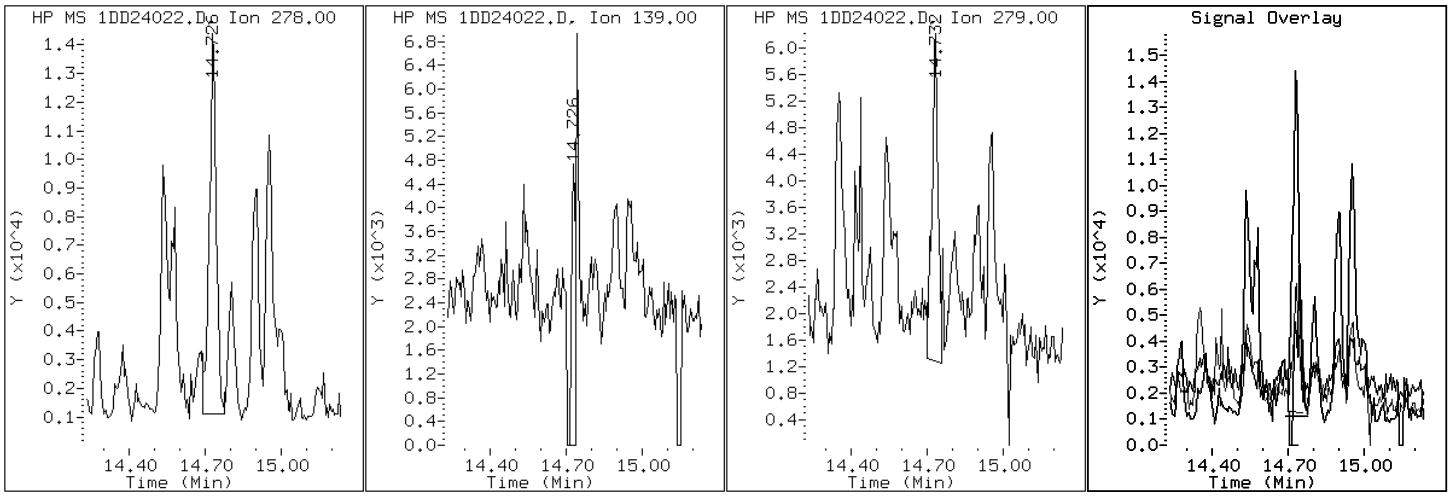
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

24 Dibenzo(a,h)anthracene



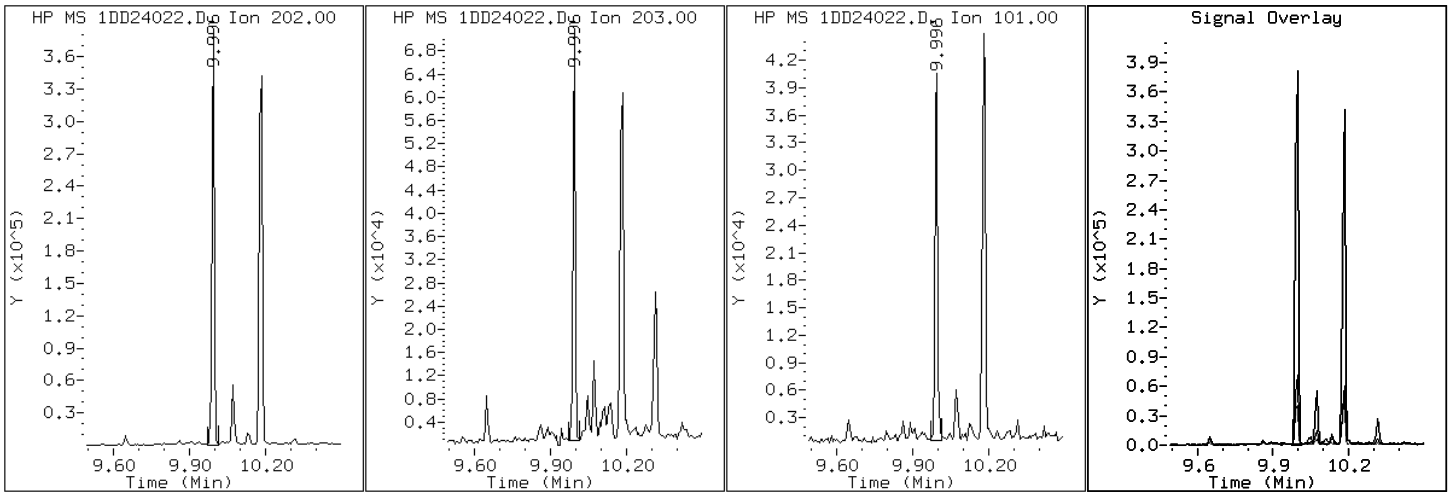
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

14 Fluoranthene



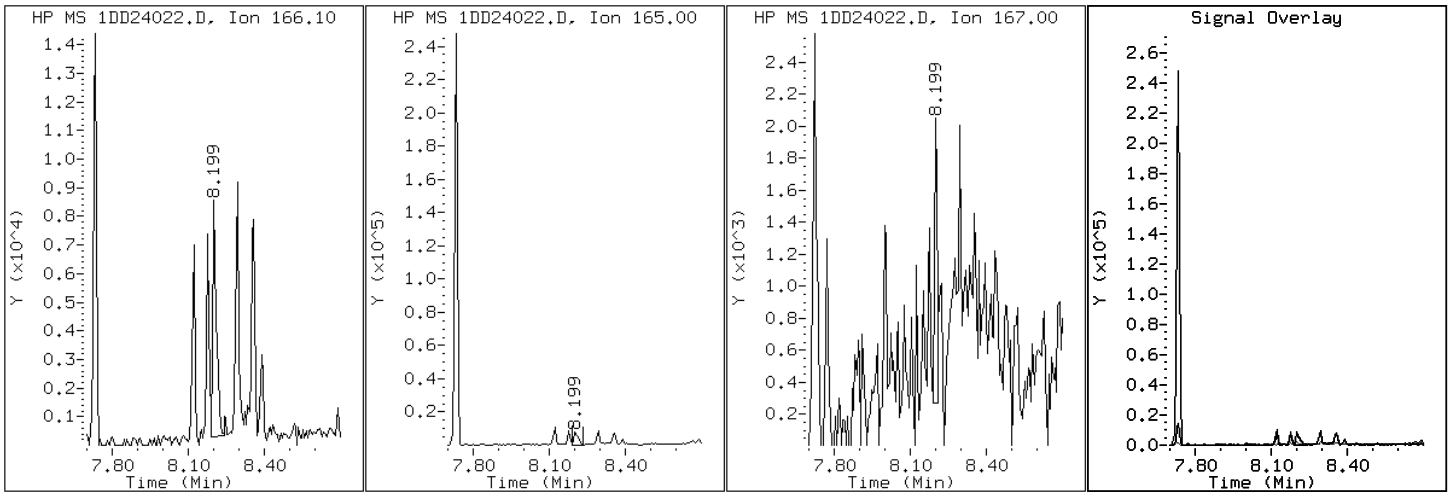
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

8 Fluorene



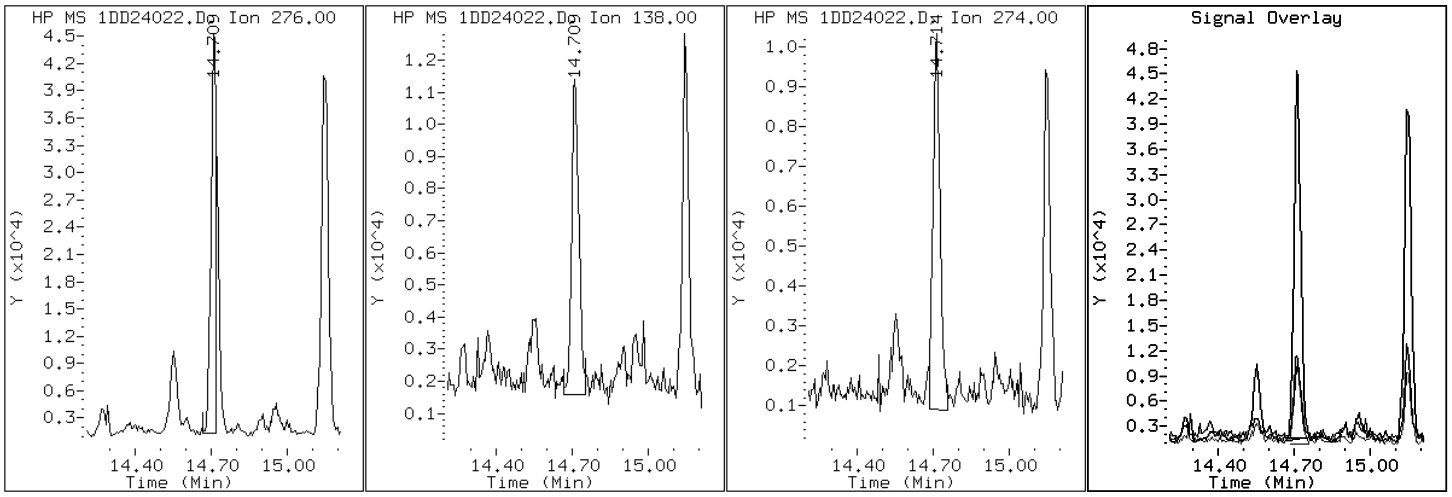
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS | Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A | Operator: SCC

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



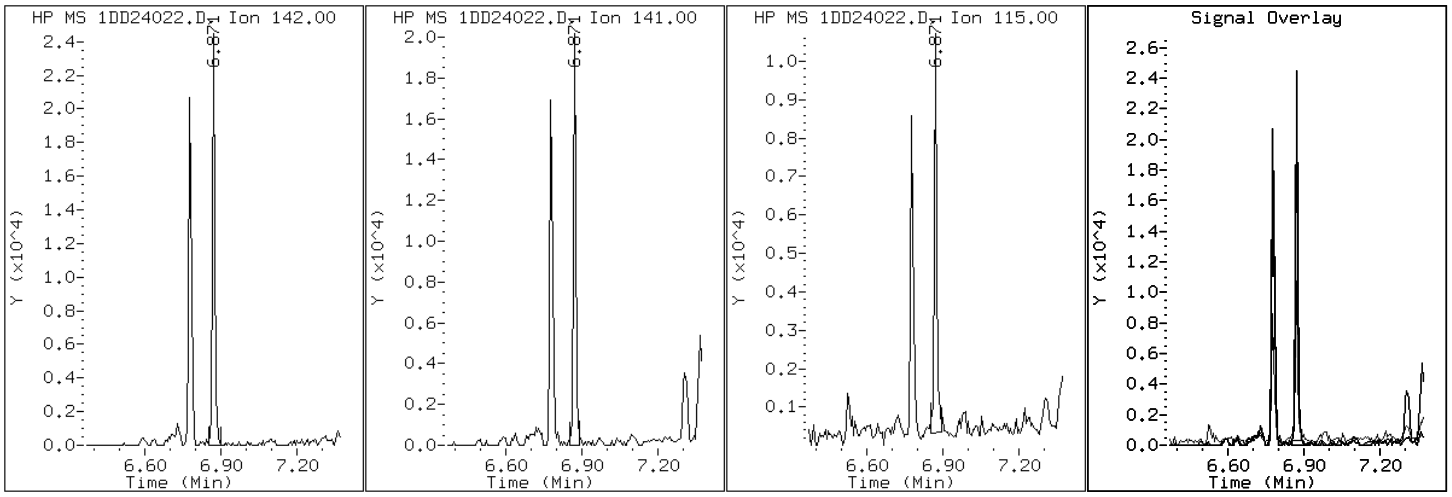
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

4 1-Methylnaphthalene



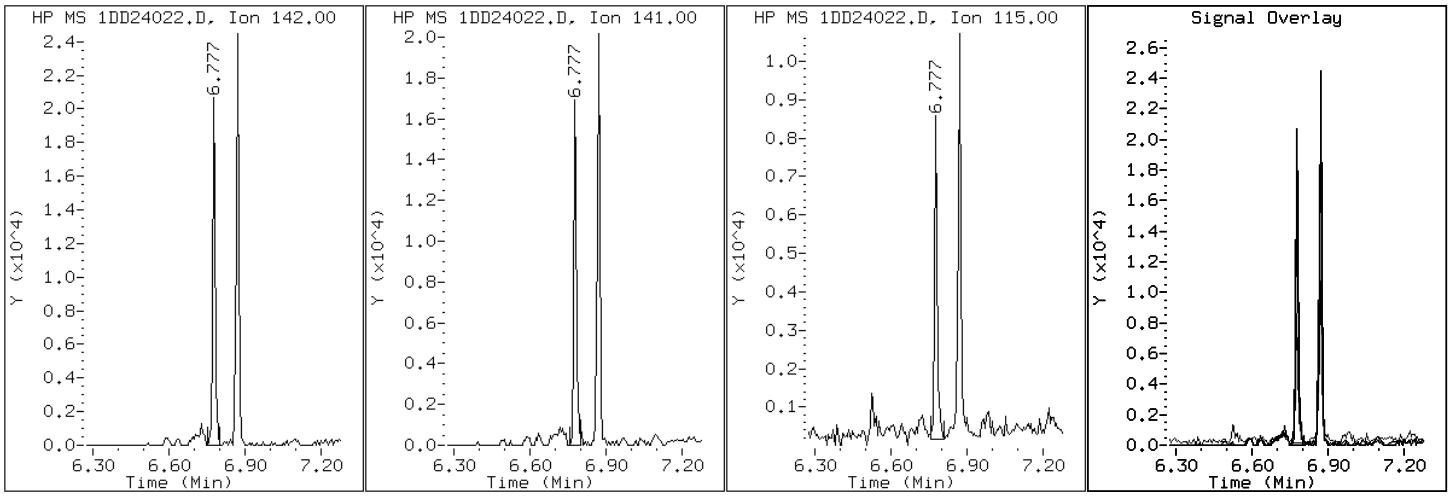
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

3 2-Methylnaphthalene



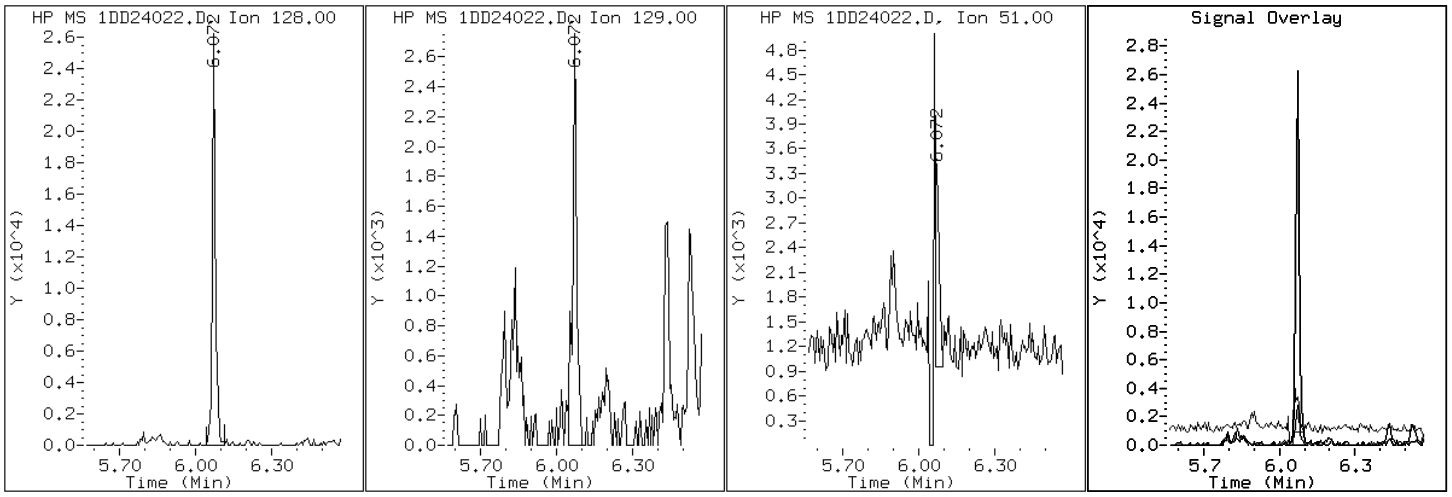
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

2 Naphthalene



Data File: 1DD24022.D

Date: 24-APR-2013 19:55

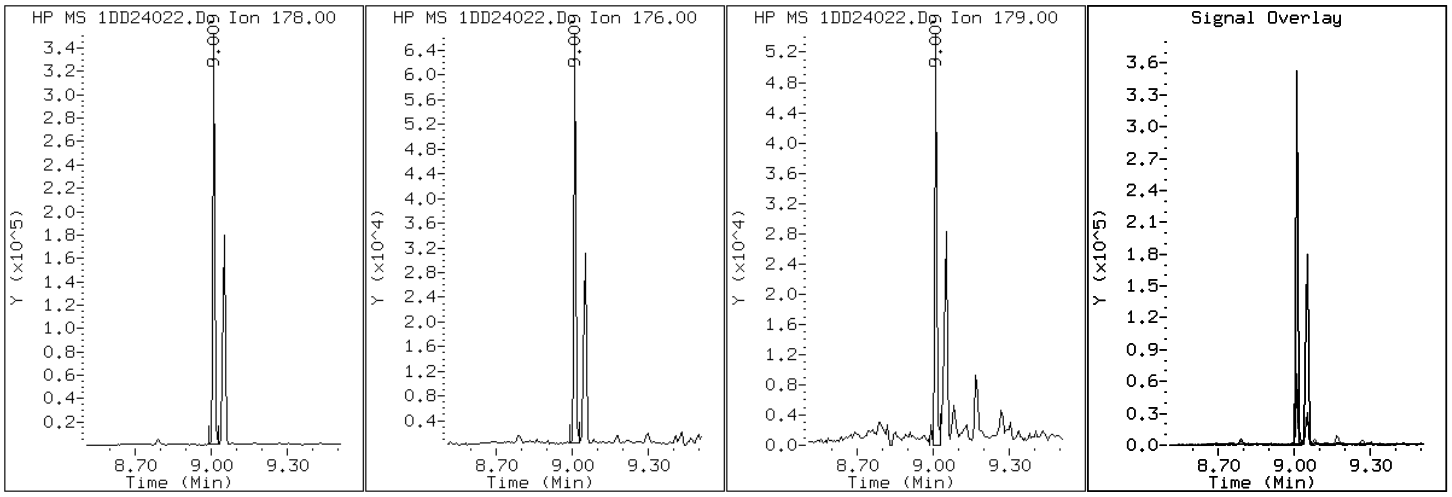
Client ID: CV1087A-CS

Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A

Operator: SCC

10 Phenanthrene



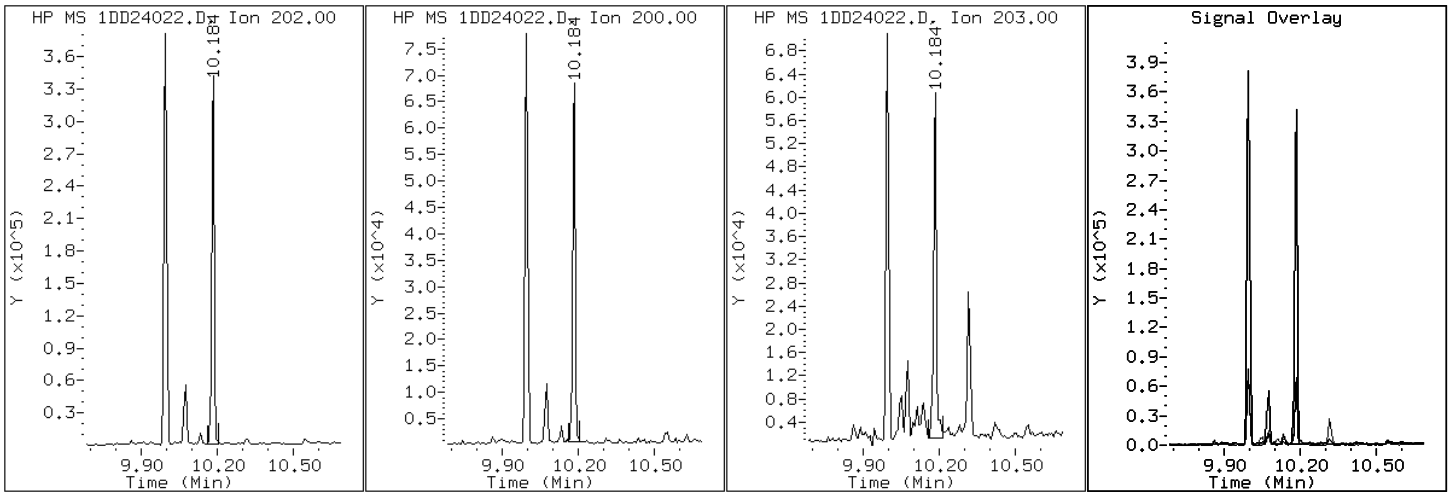
Data File: 1DD24022.D

Date: 24-APR-2013 19:55

Client ID: CV1087A-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-19-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD24022.D
Inj. Date and Time: 24-APR-2013 19:55
Instrument ID: BSMSD.i
Client ID: CV1087A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

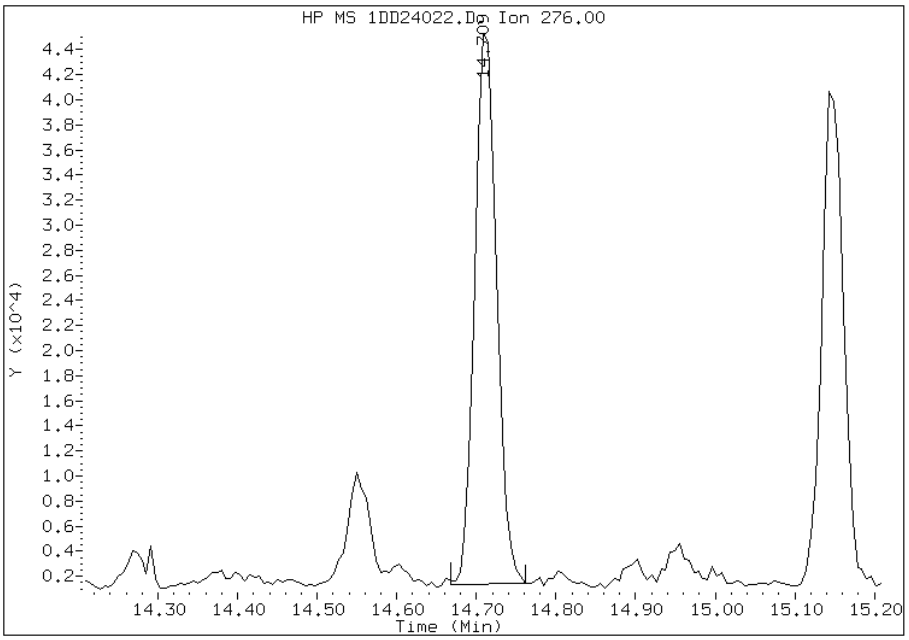
Processing Integration Results

RT: 14.71

Response: 83662

Amount: 1

Conc: 405



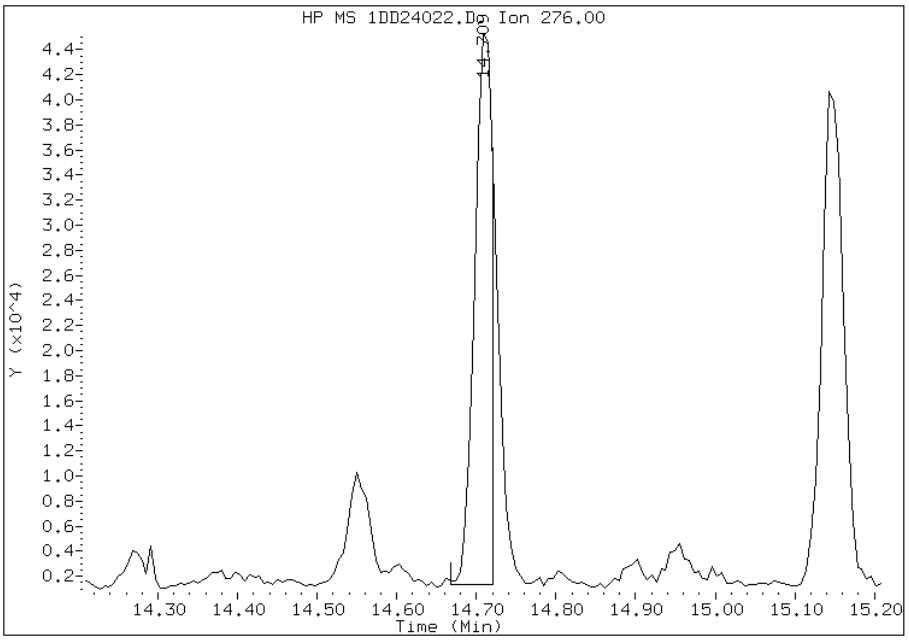
Manual Integration Results

RT: 14.71

Response: 67785

Amount: 1

Conc: 328



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV1087B-CS | Lab Sample ID: 680-89513-20

Matrix: Solid | Lab File ID: 1DD24023.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 13:20

Extract. Method: 3546 | Date Extracted: 04/23/2013 14:49

Sample wt/vol: 15.19(g) | Date Analyzed: 04/24/2013 20:18

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136826 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	72	J	190	24
120-12-7	Anthracene	80		40	20
56-55-3	Benzo[a]anthracene	240		38	18
50-32-8	Benzo[a]pyrene	210		49	24
205-99-2	Benzo[b]fluoranthene	380		57	29
191-24-2	Benzo[g,h,i]perylene	120		94	21
207-08-9	Benzo[k]fluoranthene	140		38	17
218-01-9	Chrysene	300		42	21
53-70-3	Dibenz(a,h)anthracene	45	J	94	19
206-44-0	Fluoranthene	390		94	19
86-73-7	Fluorene	19	J	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	110		94	33
90-12-0	1-Methylnaphthalene	74	J	190	21
91-57-6	2-Methylnaphthalene	71	J	190	33
91-20-3	Naphthalene	53	J	190	21
85-01-8	Phenanthrene	240		38	18
129-00-0	Pyrene	320		94	17

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24023.D
Lab Smp Id: 680-89513-A-20-A Client Smp ID: CV1087B-CS
Inj Date : 24-APR-2013 20:18
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89513-A-20-A
Misc Info : 680-89513-A-20-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: 23
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.190	Weight Extracted
M	16.009	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.054	6.049	(1.000)	2154774	40.0000	
* 6 Acenaphthene-d10	164	7.735	7.730	(1.000)	1328954	40.0000	
* 9 Phenanthrene-d10	188	8.992	8.993	(1.000)	2188665	40.0000	
$ 13 o-Terphenyl	230	9.298	9.298	(1.034)	56675	1.71860	540
* 17 Chrysene-d12	240	11.307	11.302	(1.000)	2369692	40.0000	
* 22 Perylene-d12	264	13.128	13.123	(1.000)	2207276	40.0000	
2 Naphthalene	128	6.072	6.073	(1.003)	9046	0.16890	53(Q)
3 2-Methylnaphthalene	142	6.777	6.778	(1.119)	7844	0.22688	71
4 1-Methylnaphthalene	142	6.871	6.872	(1.135)	7751	0.23740	74
5 Acenaphthylene	152	7.605	7.600	(0.983)	13004	0.23119	72
8 Fluorene	166	8.199	8.200	(1.060)	2443	0.05942	19
10 Phenanthrene	178	9.010	9.010	(1.002)	46728	0.77510	240
11 Anthracene	178	9.051	9.052	(1.007)	15196	0.25396	80
12 Carbazole	167	9.192	9.193	(1.022)	6146	0.11645	36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	9.997	9.997	(1.112)	77740	1.25312	390
15 Pyrene	202	10.185	10.185	(0.901)	71791	1.00884	320
16 Benzo(a)anthracene	228	11.289	11.284	(0.998)	52112	0.76062	240
18 Chrysene	228	11.325	11.331	(1.002)	61503	0.95739	300
19 Benzo(b)fluoranthene	252	12.582	12.583	(0.958)	66478	1.20566	380
20 Benzo(k)fluoranthene	252	12.611	12.618	(0.961)	25785	0.44389	140
21 Benzo(a)pyrene	252	13.028	13.029	(0.992)	36376	0.65659	200
23 Indeno(1,2,3-cd)pyrene	276	14.703	14.710	(1.120)	20594	0.34861	110(M)
24 Dibenzo(a,h)anthracene	278	14.726	14.733	(1.122)	7920	0.14237	45(MH)
25 Benzo(g,h,i)perylene	276	15.138	15.150	(1.153)	20923	0.36784	120

QC Flag Legend

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

Data File: 1DD24023.D

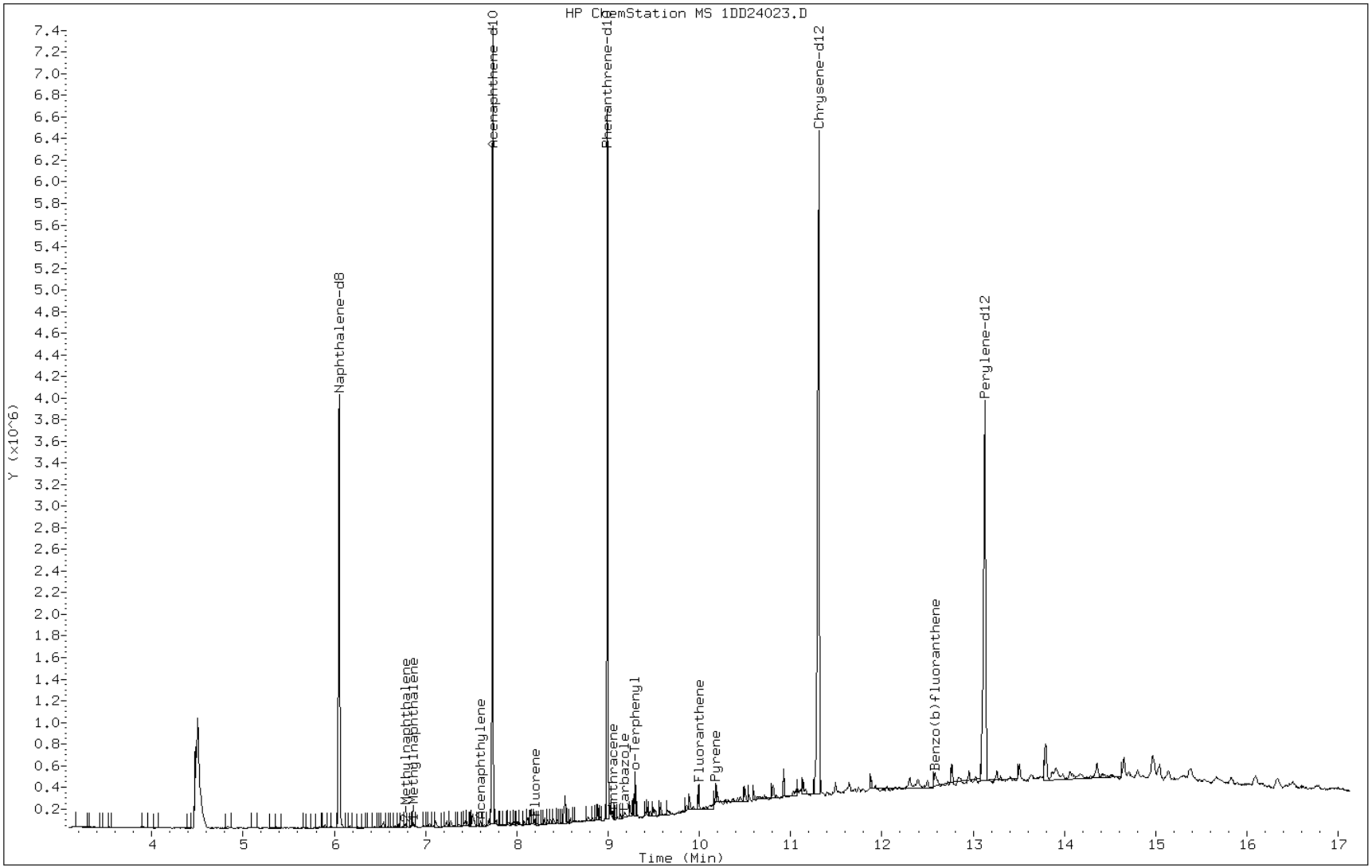
Date: 24-APR-2013 20:18

Client ID: CV1087B-CS

Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A

Operator: SCC



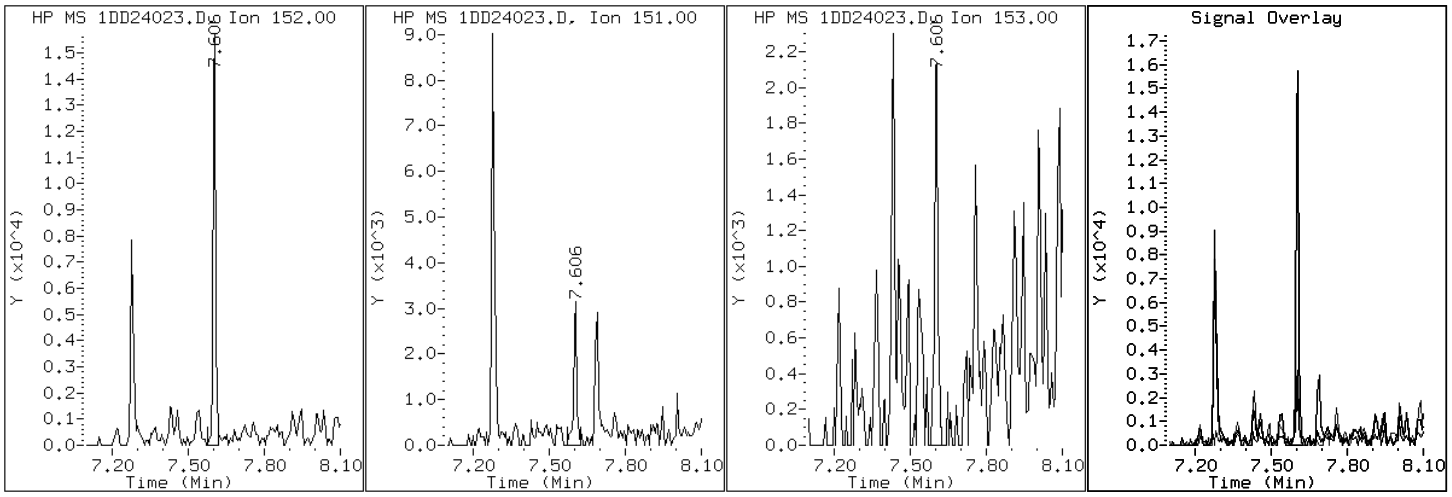
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

5 Acenaphthylene



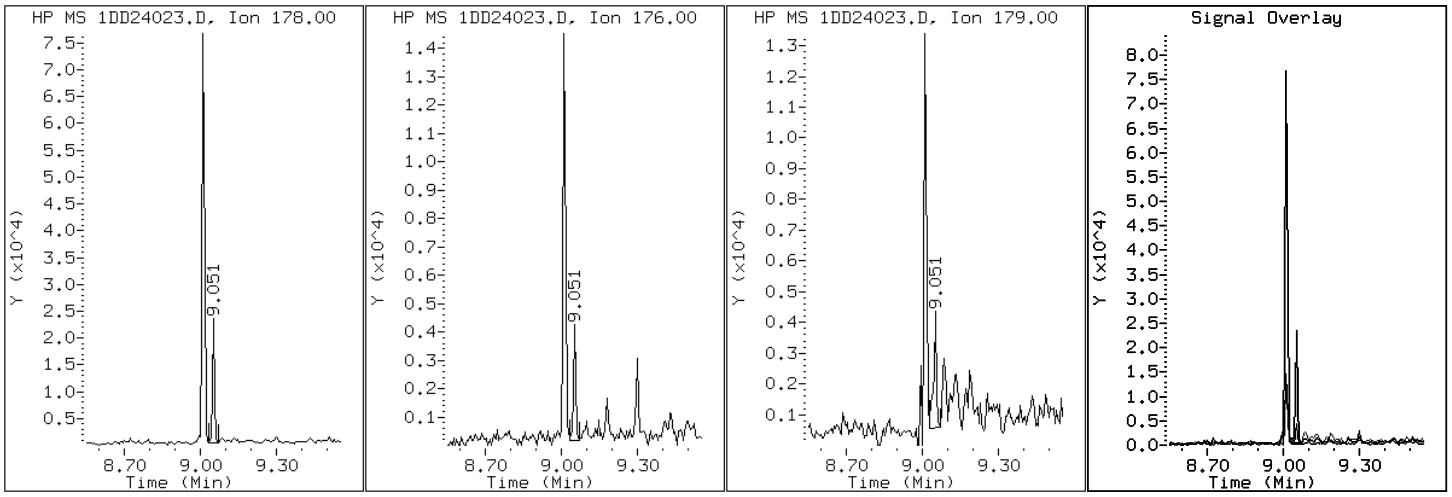
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

11 Anthracene



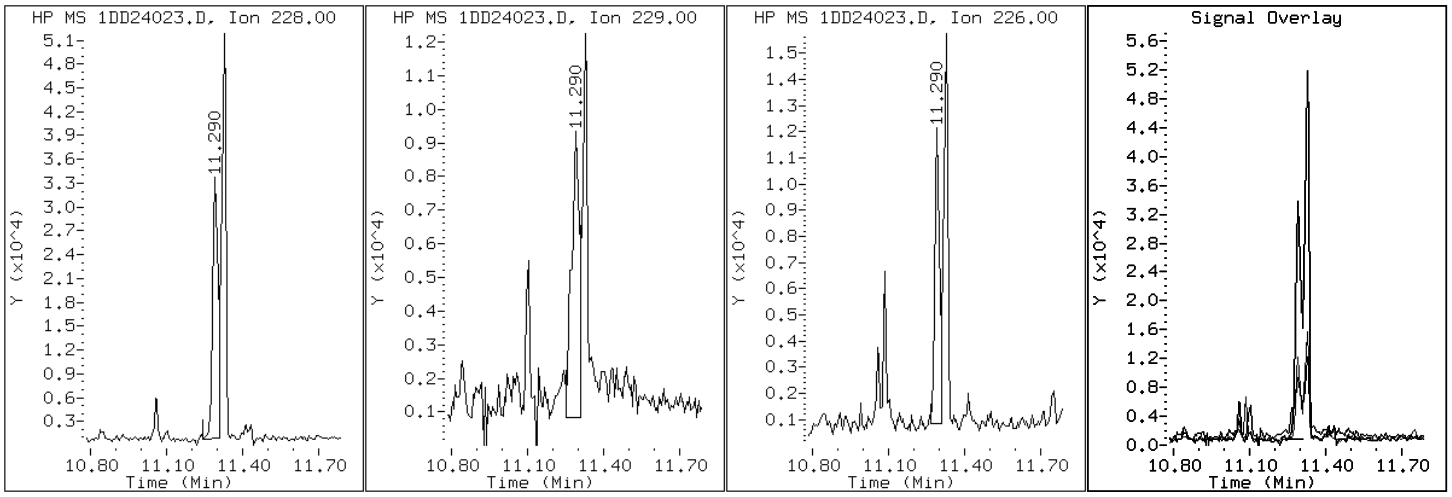
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

16 Benzo(a)anthracene



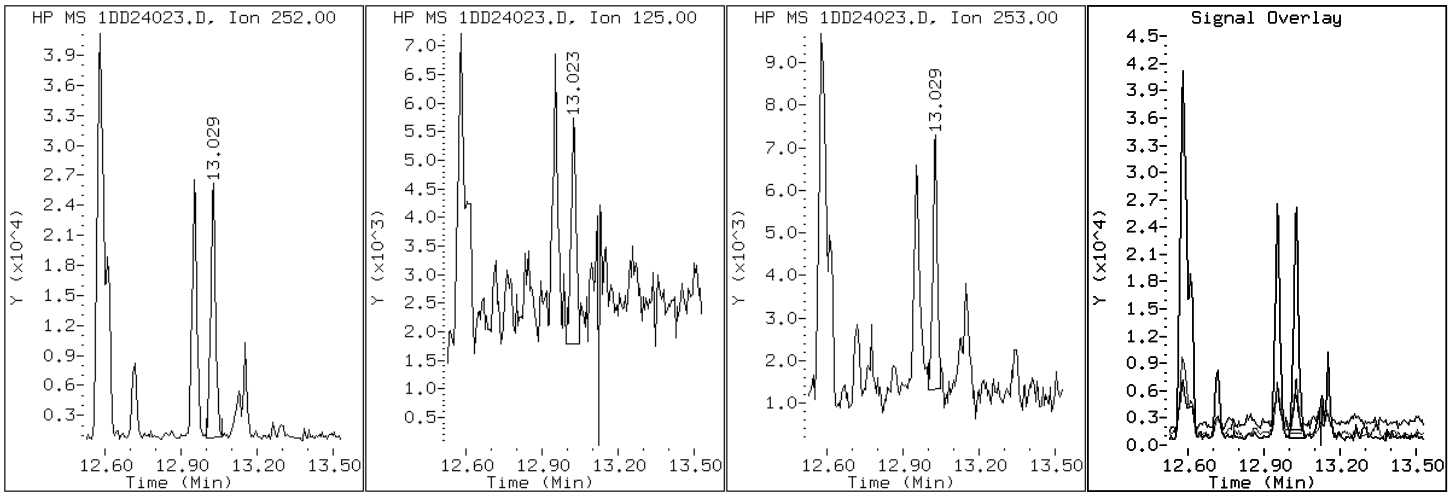
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

21 Benzo(a)pyrene



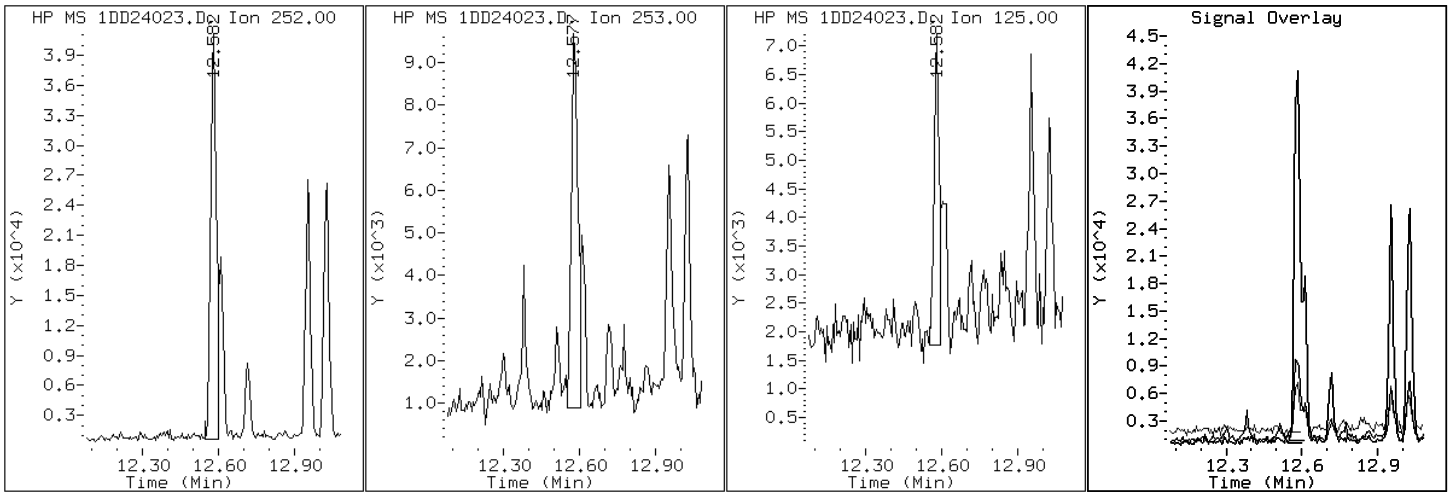
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

19 Benzo(b)fluoranthene



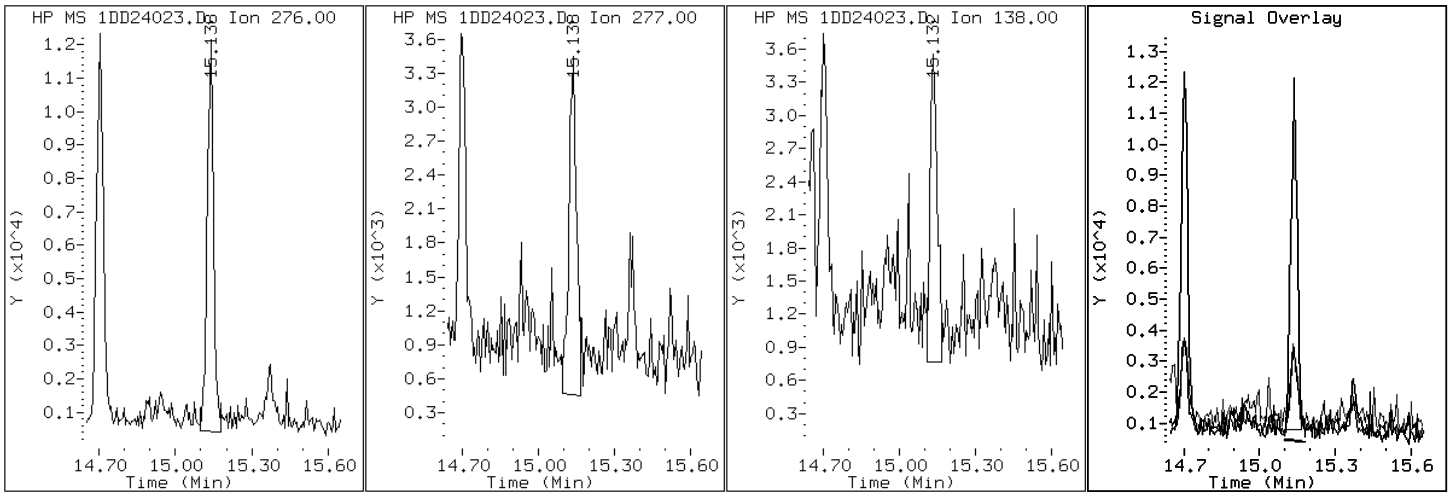
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

25 Benzo(g,h,i)perylene



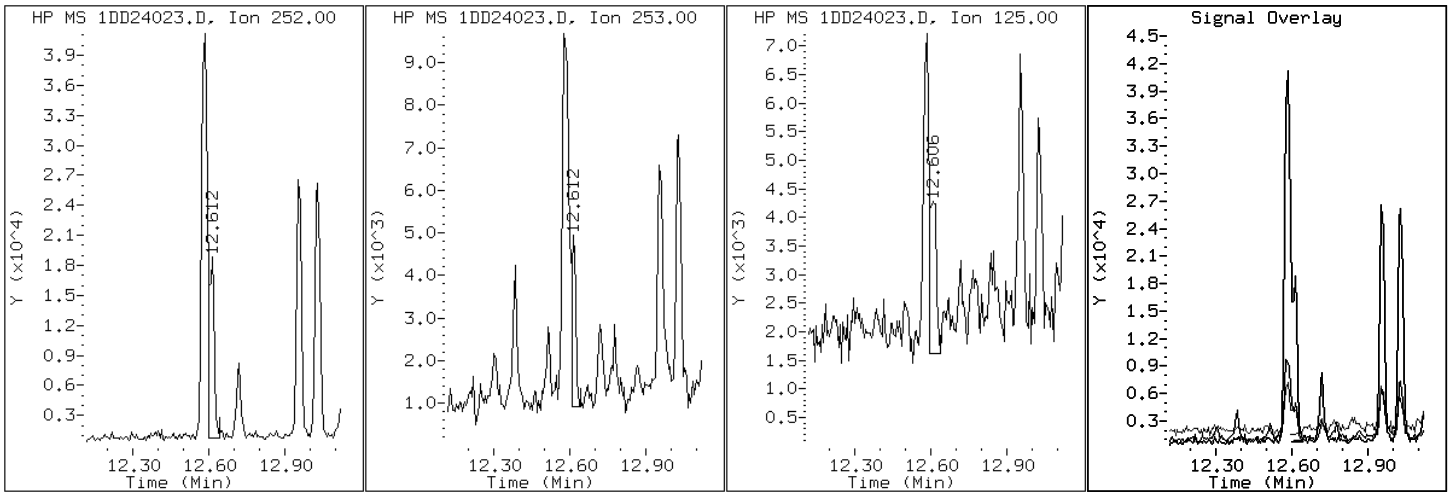
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

20 Benzo(k)fluoranthene



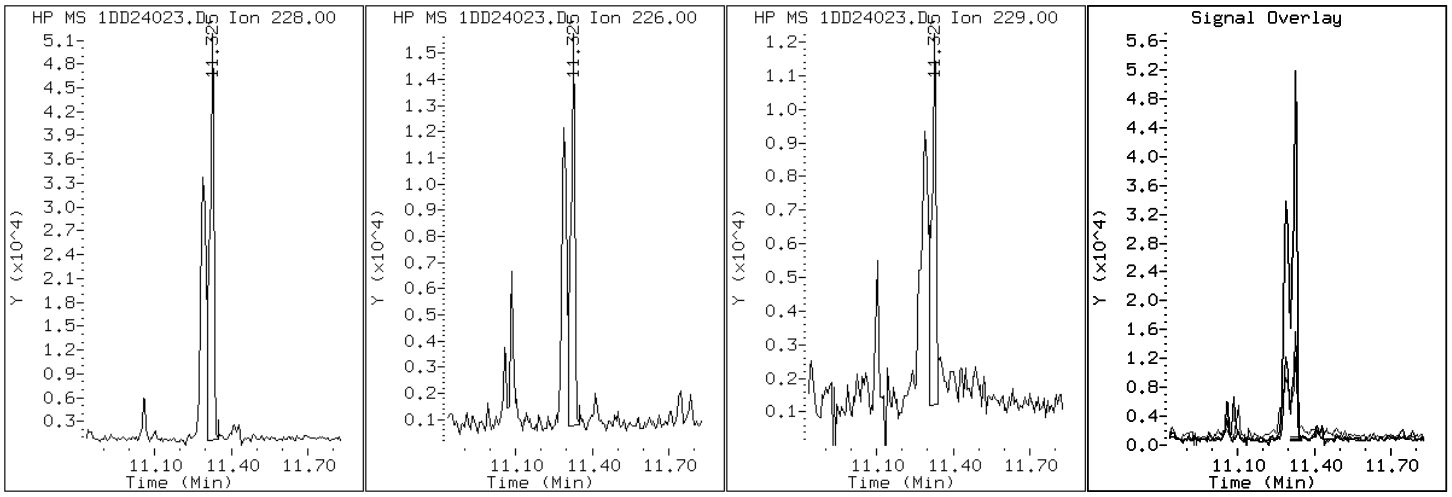
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

18 Chrysene



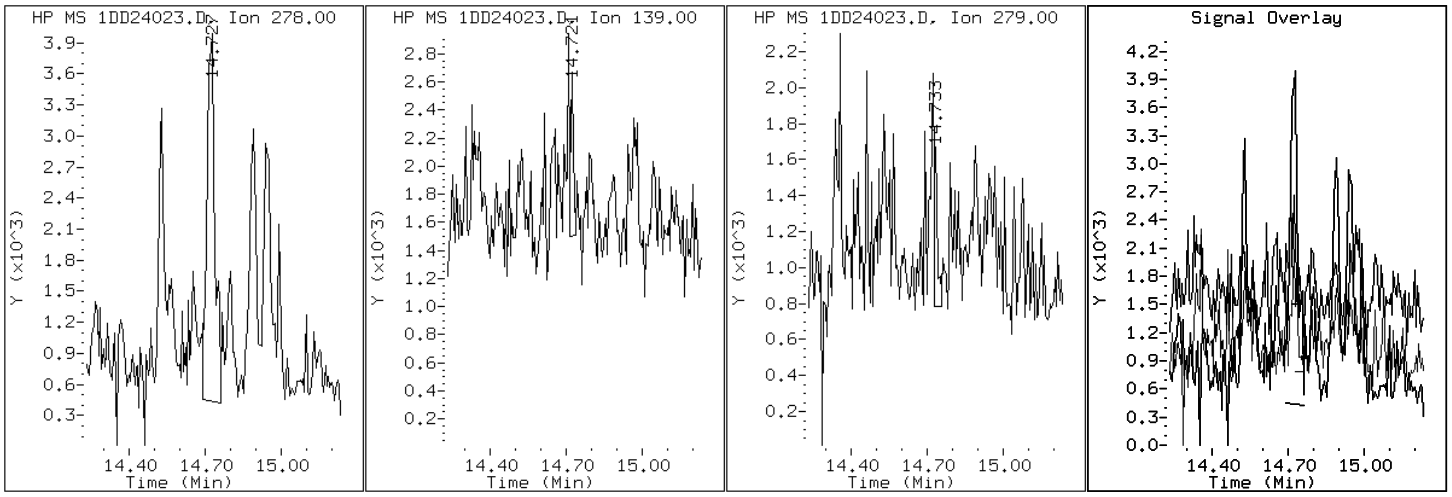
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

24 Dibenzo(a,h)anthracene



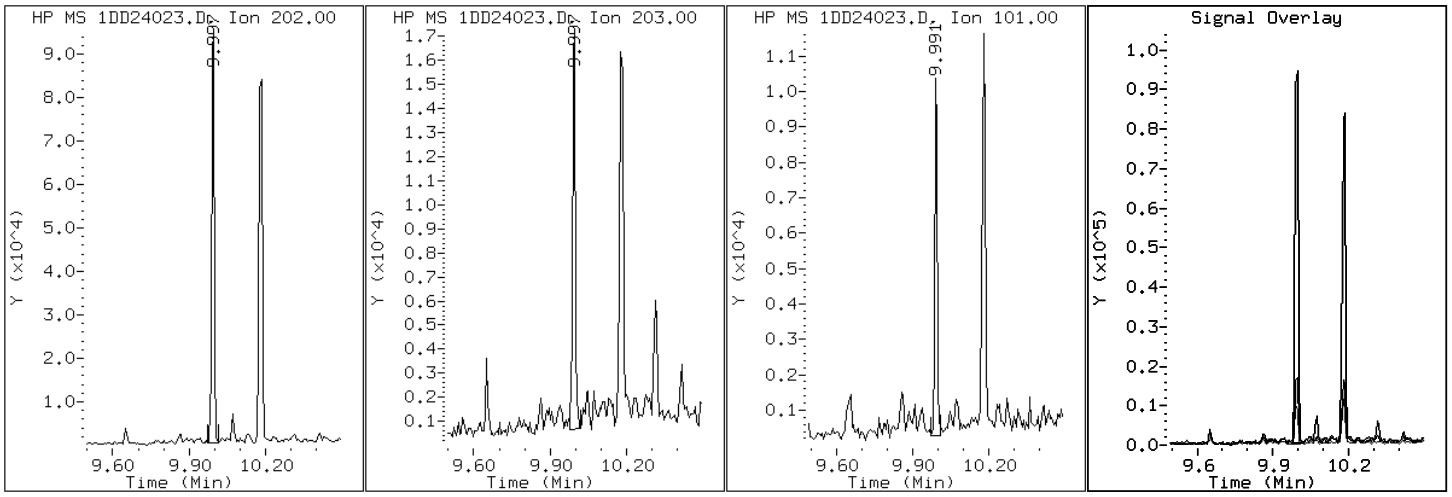
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

14 Fluoranthene



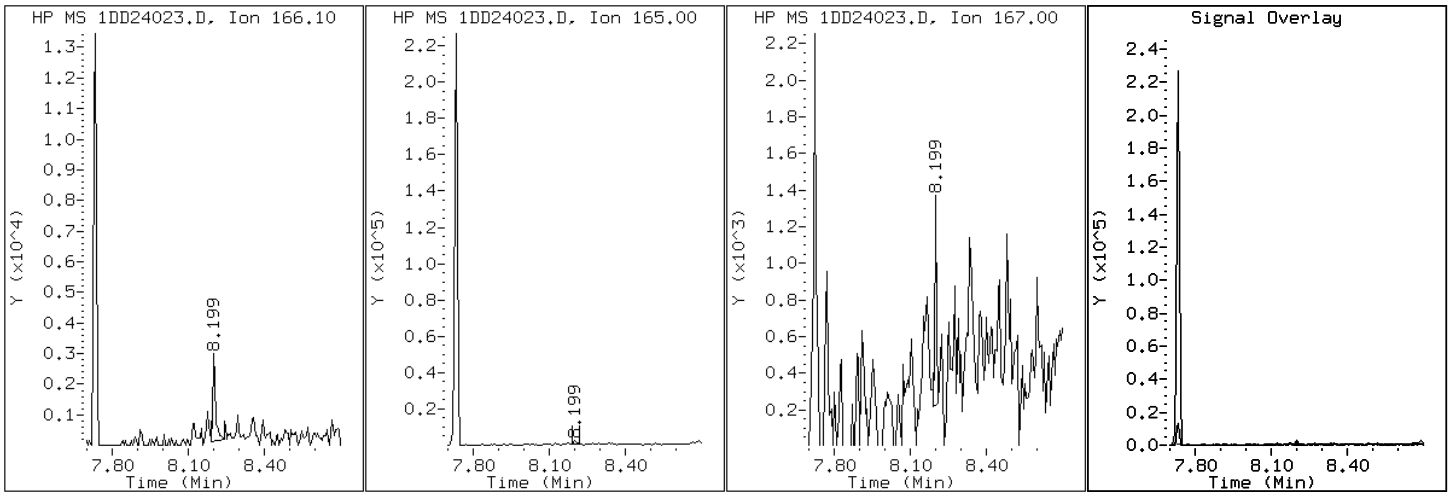
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

8 Fluorene



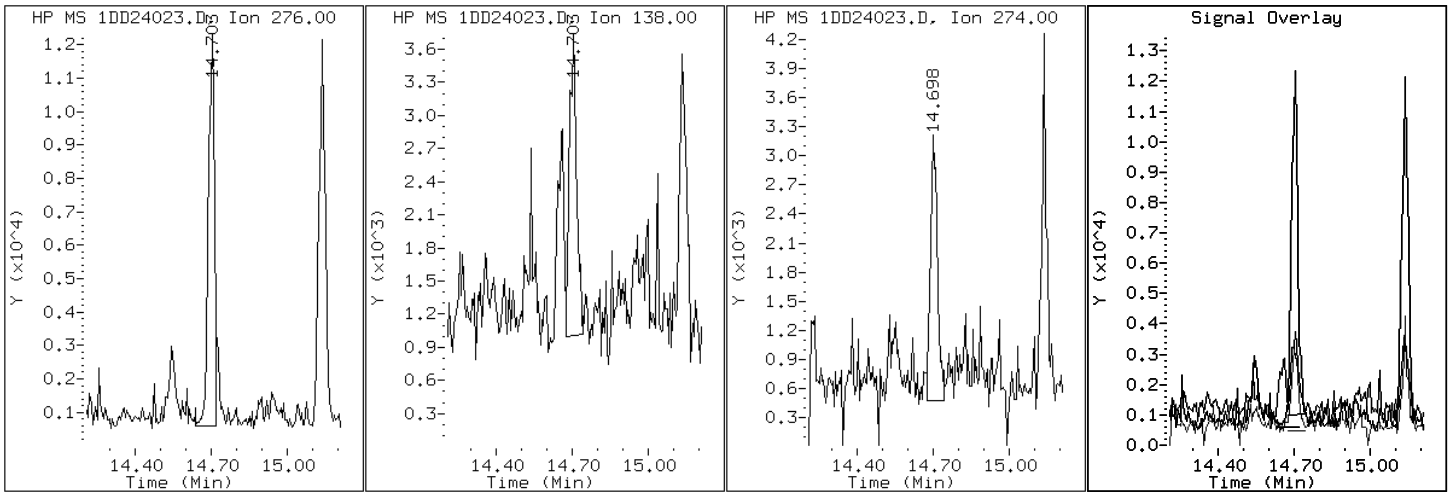
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

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



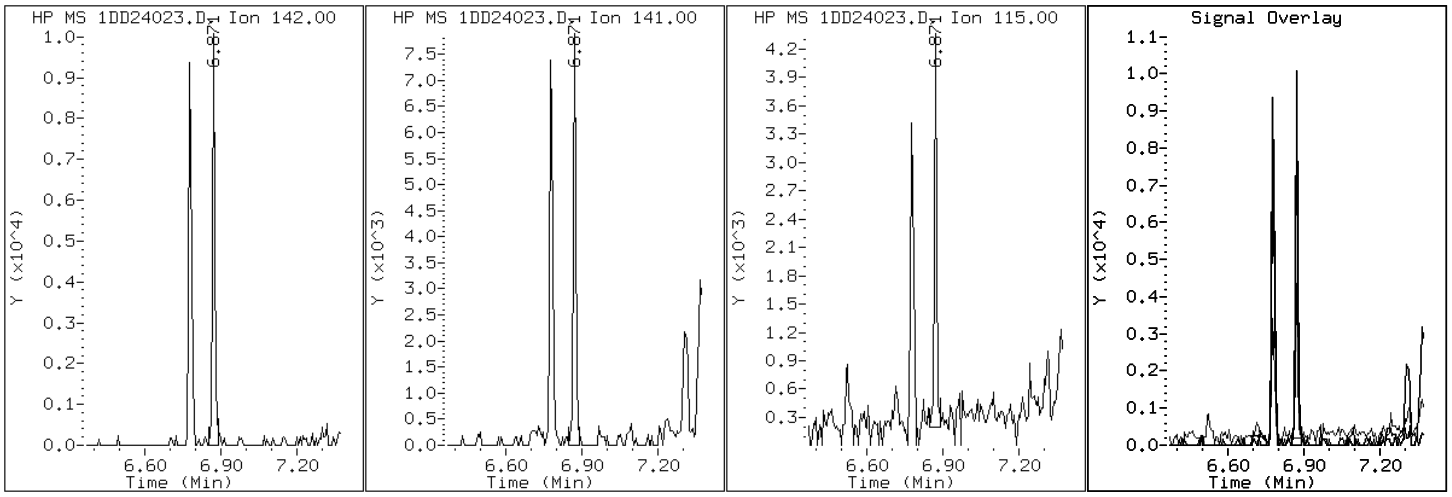
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

4 1-Methylnaphthalene



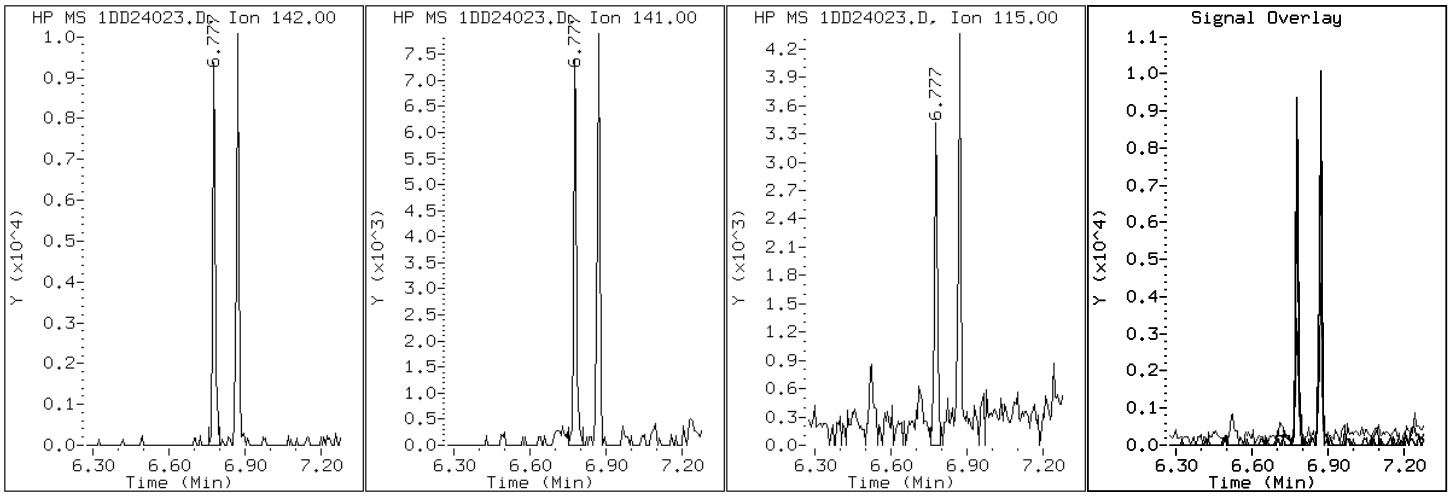
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

3 2-Methylnaphthalene



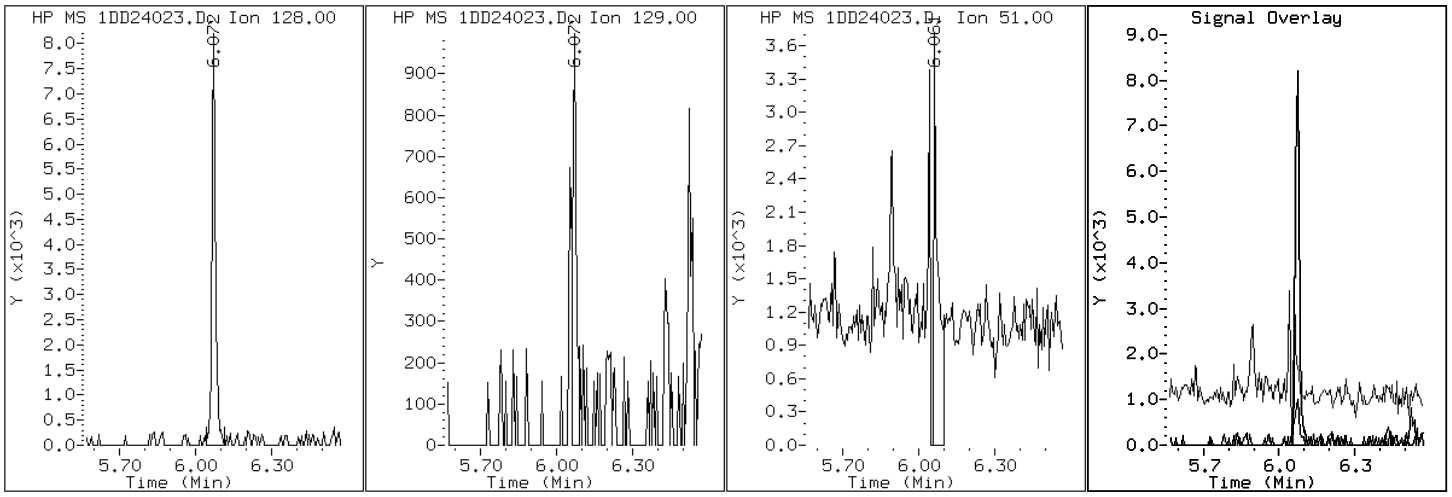
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

2 Naphthalene



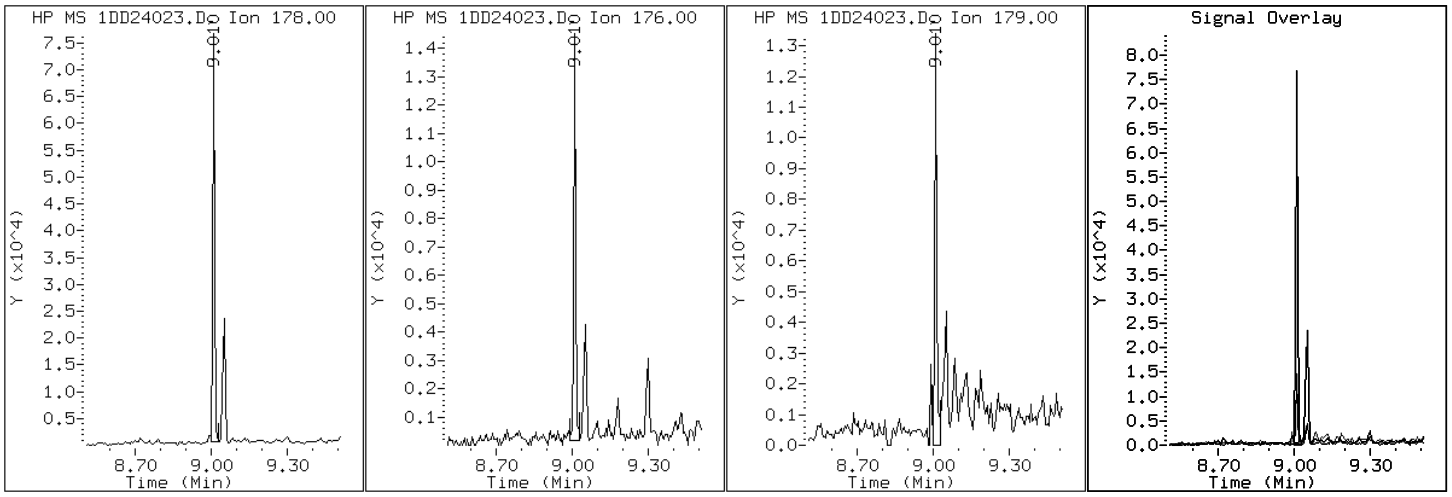
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

10 Phenanthrene



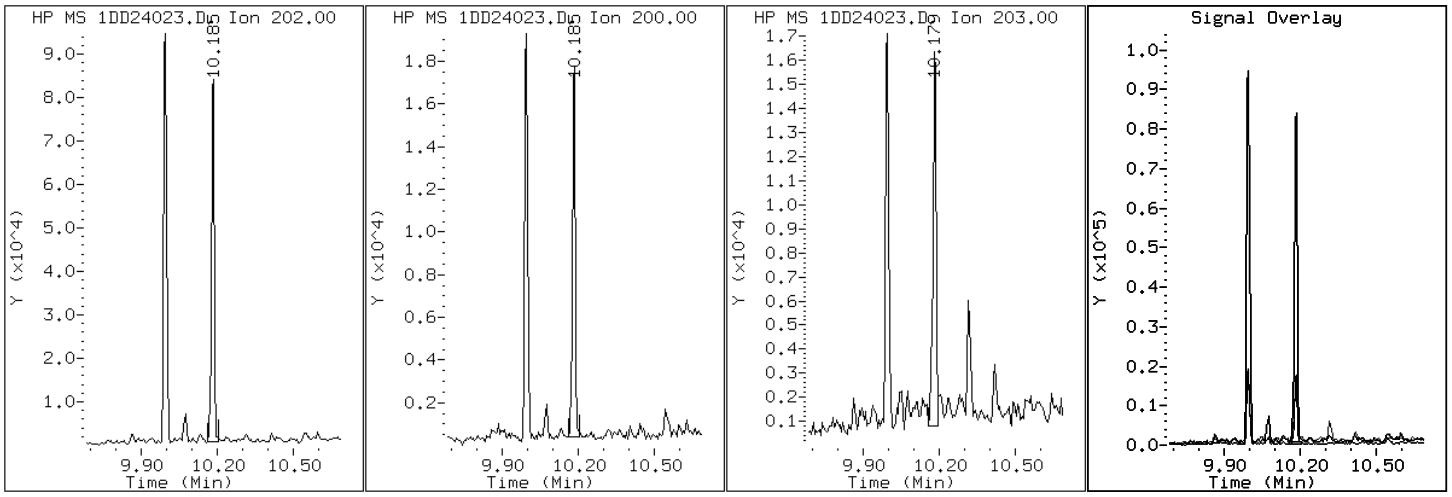
Data File: 1DD24023.D

Date: 24-APR-2013 20:18

Client ID: CV1087B-CS Instrument: BSMSD.i

Sample Info: 680-89513-A-20-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DD24023.D
Inj. Date and Time: 24-APR-2013 20:18
Instrument ID: BSMSD.i
Client ID: CV1087B-CS
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/25/2013

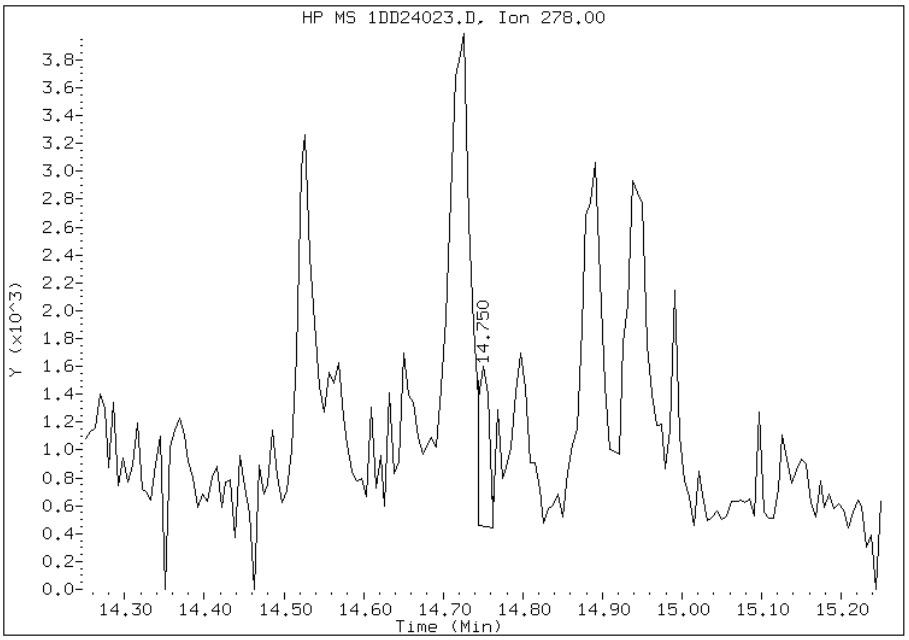
Processing Integration Results

RT: 14.75

Response: 1092

Amount: 0

Conc: 6



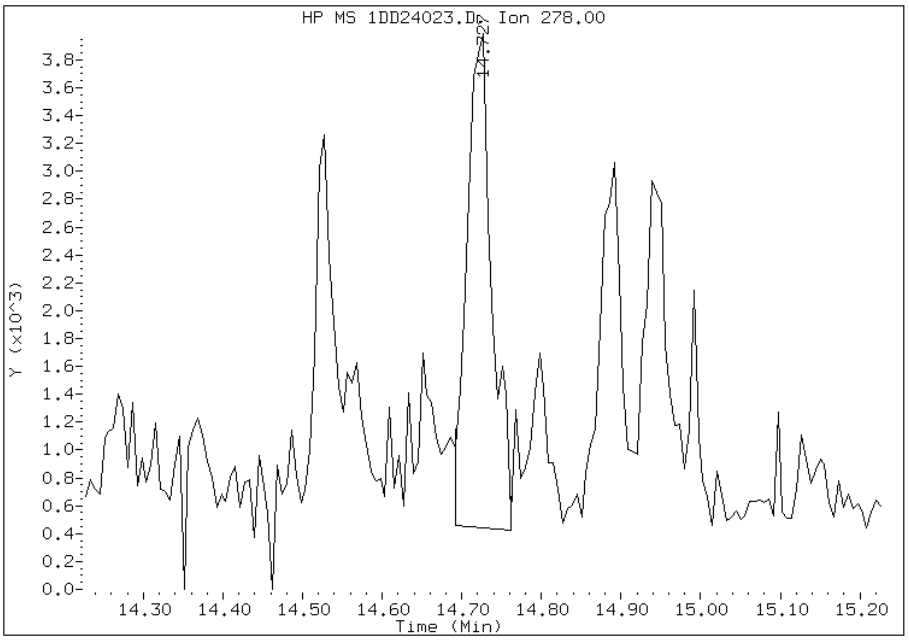
Manual Integration Results

RT: 14.73

Response: 7920

Amount: 0

Conc: 45



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD24023.D
Inj. Date and Time: 24-APR-2013 20:18
Instrument ID: BSMSD.i
Client ID: CV1087B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

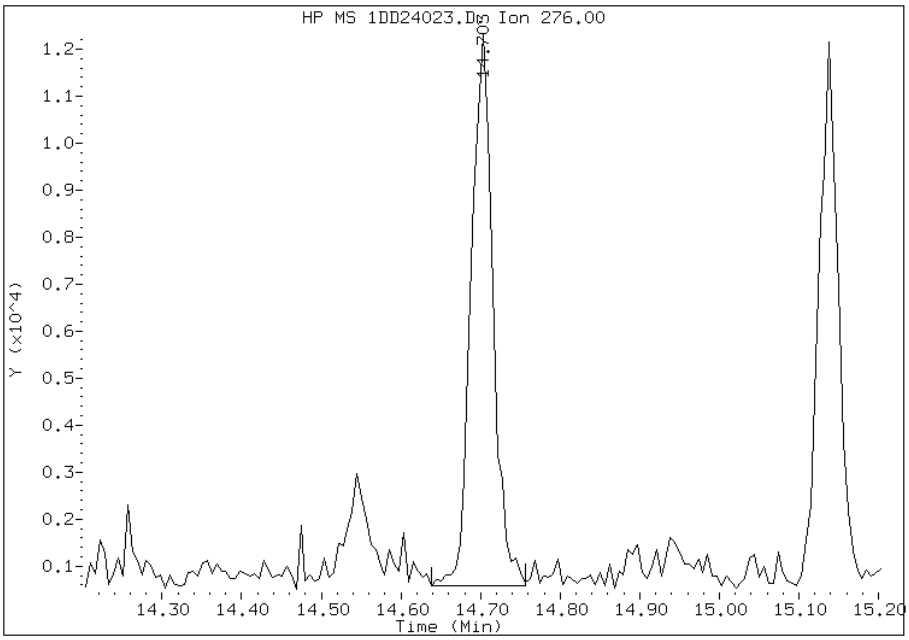
Processing Integration Results

RT: 14.70

Response: 22249

Amount: 0

Conc: 118



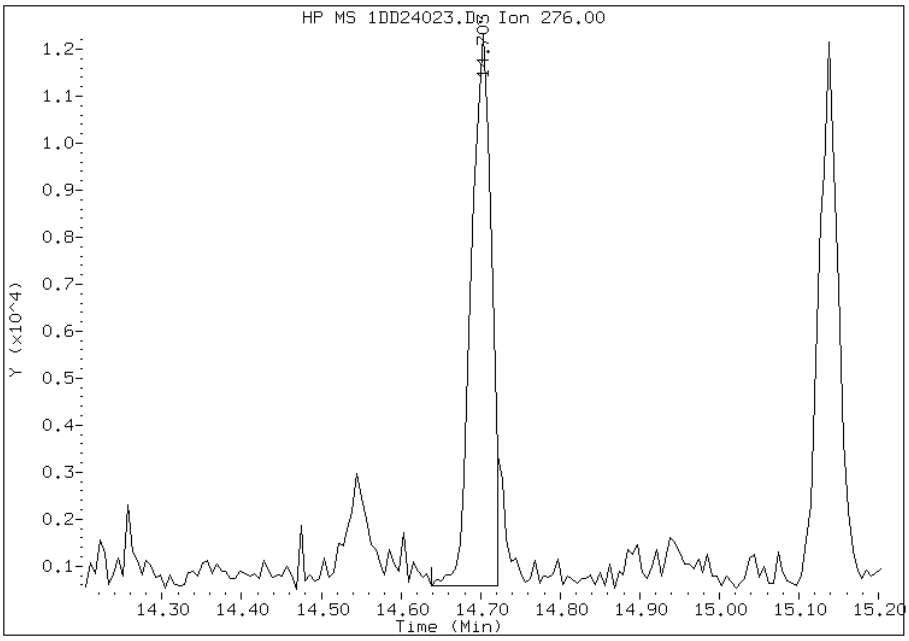
Manual Integration Results

RT: 14.70

Response: 20594

Amount: 0

Conc: 109



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:16
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1 Analy Batch No.: 136792

SDG No.: 68089513-1

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.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	1.4885 1.0673	0.8030 0.9945	1.2243	1.0717	1.0350	Qua	0.0016	0.8772	0.0995		0.0000				0.9993		0.9900
2-Methylnaphthalene	0.7464 0.6579	0.4218 0.6085	0.6274	0.6521	0.7379	Qua	0.0162	1.1826	0.5751		0.0000				0.9983		0.9900
1-Methylnaphthalene	0.9319 0.6193	0.7463 0.5744	0.6932	0.6597	0.6871	Qua	0.0036	1.3017	0.6057		0.0000				0.9993		0.9900
Acenaphthylene	3.4304 2.0647	1.9170 1.7629	2.1326	1.8192	1.8525	Qua	0.0112	0.4383	0.0514		0.0000				0.9943		0.9900
Acenaphthene	0.4262 1.2591	1.1075 1.1214	1.1969	1.0197	1.1578	Lin	0.0010	1.1591			0.0000				0.9946		0.9900
Fluorene	0.7134 1.4381	0.8846 1.3393	1.4394	1.2091	1.4637	Lin	0	1.3741			0.0000				0.9965		0.9900
Phenanthrene	0.7358 1.1729	1.0796 1.1379	1.2093	1.1777	1.1532	Ave		1.0952			0.0000	14.9		15.0			
Anthracene	1.6568 1.2549	1.0932 1.1749	1.2756	0.9843	1.2050	Lin	0.0035	1.1989			0.0000				0.9969		0.9900
Carbazole	1.1378 1.1753	0.8782 1.1261	1.1756	1.0992	1.1138	Ave		1.1008			0.0000	9.3		15.0			
Fluoranthene	0.5689 1.3260	1.4602 1.3145	1.3271	1.2451	1.3854	Lin	-0.001	1.3222			0.0000				0.9993		0.9900
Pyrene	1.1153 1.1382	1.3399 1.2411	1.2320	1.0694	1.1336	Ave		1.1813			0.0000	7.9		15.0			
Benzo[a]anthracene	2.8780 1.1234	1.0920 1.2524	0.9747	1.0528	1.0869	Qua	-0.003	1.0003	-0.128		0.0000				0.9999		0.9900
Chrysene	1.2239 1.1652	1.0410 1.2164	1.0997	1.1331	1.1162	Ave		1.1422			0.0000	5.7		15.0			
Benzo[b]fluoranthene	1.2869 1.2910	1.1792 1.0614	0.8207	1.0261	1.0787	Ave		1.1063			0.0000	14.9		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1 Analy Batch No.: 136792

SDG No.: 68089513-1

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

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	0.9309 1.0619	1.0234 1.2344	1.0057	1.0567	1.2219	Ave		1.0764			0.0000	10.4		15.0			
Benzo[a]pyrene	0.4167 1.1299	0.9130 1.0738	0.8808	1.0351	1.1266	Lin	0.0055	1.0979			0.0000				0.9984		0.9900
Indeno[1,2,3-cd]pyrene	0.6405 1.1359	1.0272 1.0893	0.7464	1.0313	1.0336	Lin	0.0155	1.1121			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7370 1.0791	0.9794 1.0428	0.9325	0.9527	1.0661	Ave		0.9699			0.0000	12.1		15.0			
Benzo[g,h,i]perylene	0.8267 1.1488	0.9925 1.0479	1.0131	1.0047	1.0362	Ave		1.0100			0.0000	9.5		15.0			
o-Terphenyl	0.5768 0.5541	0.4988 0.6222	0.6004	0.5917	0.6213	Ave		0.5808			0.0000	7.5		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.: 680-89513-1 Analy Batch No.: 136792

SDG No.: 68089513-1

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136792/9	1CD24008.D
Level 2	IC 660-136792/10	1CD24009.D
Level 3	IC 660-136792/11	1CD24010.D
Level 4	IC 660-136792/12	1CD24011.D
Level 5	ICIS 660-136792/8	1CD24007.D
Level 6	IC 660-136792/13	1CD24012.D
Level 7	IC 660-136792/14	1CD24013.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	Qua	1035 103423	2549 191564	20341	36506	65995	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	519 63749	1339 117199	10424	22212	47054	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	648 60013	2369 110635	11516	22472	43811	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	1481 116035	3801 202374	20507	36679	73827	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	184 70759	2196 128735	11510	20558	46141	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Lin	308 80821	1754 153739	13841	24378	58332	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	560 124603	3569 236464	20935	44728	90821	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Lin	1261 133306	3614 244157	22082	37381	94896	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	866 124856	2903 234016	20351	41744	87713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Lin	433 140868	4827 273177	22974	47287	109105	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	1068 148768	4995 302673	28020	49927	122882	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Qua	2756 146829	4071 305445	22168	49156	117822	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	1172 152301	3881 296655	25011	52901	121002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	1334 179789	4851 310324	22111	53250	121135	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	965 147881	4210 360897	27095	54841	137216	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.: 680-89513-1 Analy Batch No.: 136792

SDG No.: 68089513-1

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

Calibration Start Date: 04/24/2013 13:57 Calibration End Date: 04/24/2013 15:47 Calibration ID: 2916

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	Lin	432 157348	3756 313949	23731	53716	126513	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Lin	664 158186	4226 318480	20110	53522	116072	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	764 150284	4029 304881	25125	49442	119713	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	857 159984	4083 306375	27296	52142	116355	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	439 58861	1649 129301	10394	22471	48930	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24007.D
Lab Smp Id: ICIS-1531401
Inj Date : 24-APR-2013 13:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	127529	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79707	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	157508	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	48930	20.0000	20.6251
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	216809	40.0000	
* 23 Perylene-d12	264	8.739	8.739	(1.000)	224587	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	65995	20.0000	18.8561
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	47054	20.0000	23.0182
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	43811	20.0000	19.5833
5 Acenaphthylene	152	4.633	4.633	(0.981)	73827	20.0000	17.3135
7 Acenaphthene	154	4.739	4.739	(1.004)	46141	20.0000	22.2383
9 Fluorene	166	5.063	5.063	(1.072)	58332	20.0000	24.1426
11 Phenanthrene	178	5.674	5.674	(1.002)	90821	20.0000	19.6674
12 Anthracene	178	5.710	5.710	(1.008)	94896	20.0000	19.5145
13 Carbazole	167	5.821	5.821	(1.028)	87713	20.0000	20.2346
15 Fluoranthene	202	6.504	6.504	(1.149)	109105	20.0000	22.4815
16 Pyrene	202	6.674	6.674	(0.879)	122882	20.0000	19.1909
17 Benzo(a)anthracene	228	7.580	7.580	(0.998)	117822	20.0000	18.0612
19 Chrysene	228	7.609	7.609	(1.002)	121002	20.0000	19.5445
20 Benzo(b)fluoranthene	252	8.415	8.415	(0.963)	121135	20.0000	19.5020
21 Benzo(k)fluoranthene	252	8.433	8.433	(0.965)	137216	20.0000	22.7040
22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	126513	20.0000	23.9858
24 Indeno(1,2,3-cd)pyrene	276	9.839	9.839	(1.126)	116072	20.0000	19.2071(M)
25 Dibenzo(a,h)anthracene	278	9.856	9.856	(1.128)	119713	20.0000	20.3903
26 Benzo(g,h,i)perylene	276	10.168	10.168	(1.164)	116355	20.0000	20.5184

QC Flag Legend

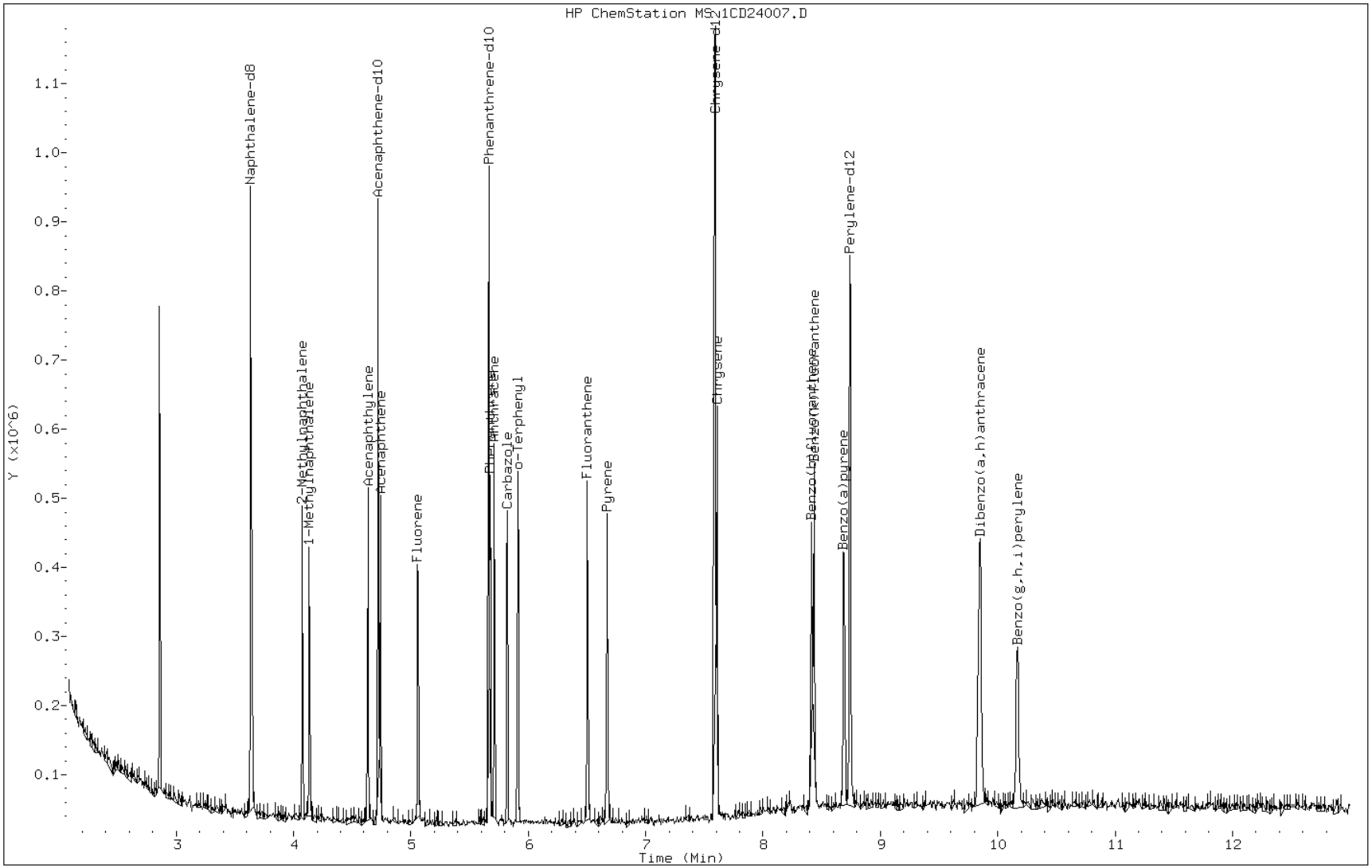
M - Compound response manually integrated.

Data File: 1CD24007.D

Date: 24-APR-2013 13:57

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD24007.D
Inj. Date and Time: 24-APR-2013 13:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

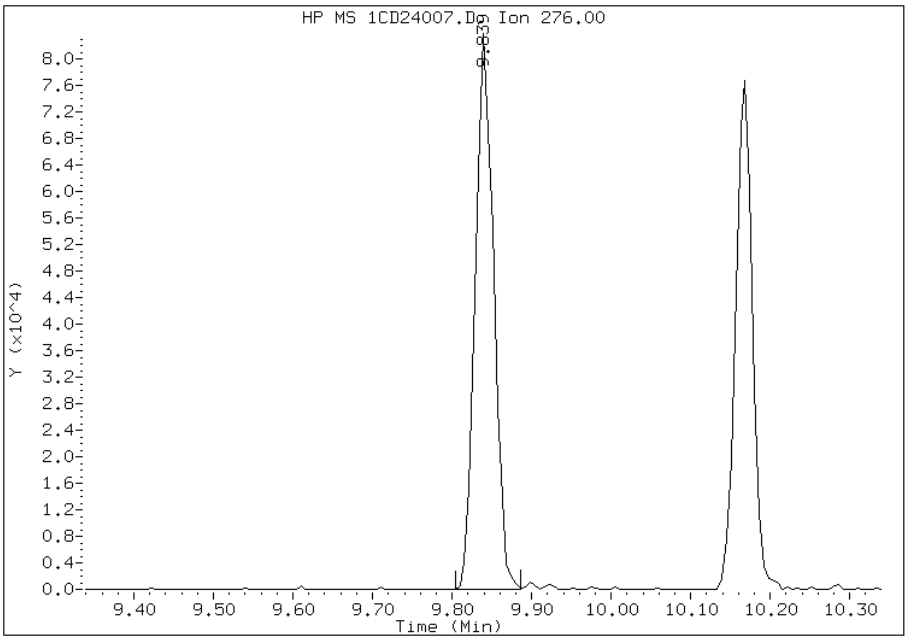
Processing Integration Results

RT: 9.84

Response: 133132

Amount: 23

Conc: 23



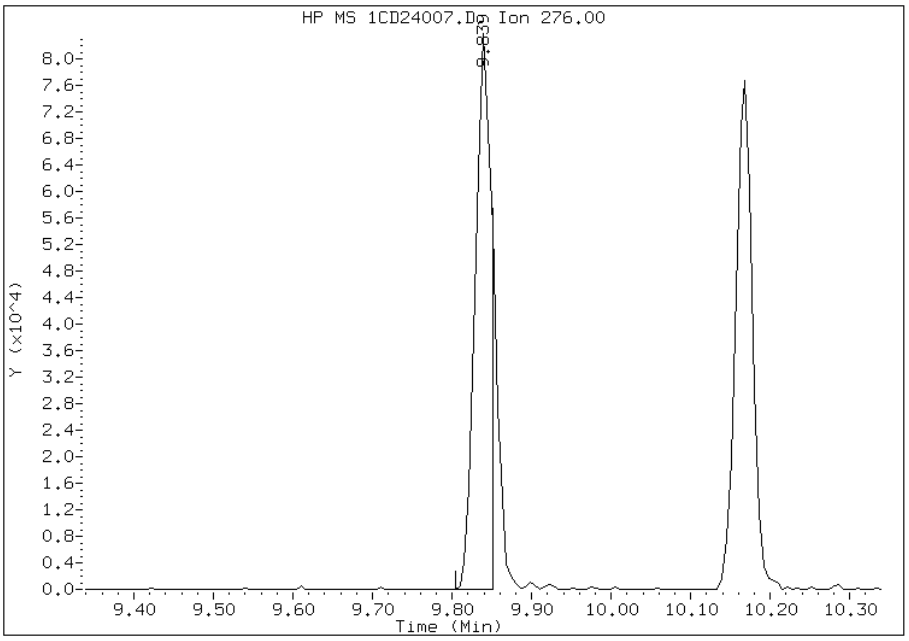
Manual Integration Results

RT: 9.84

Response: 116072

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:00
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24008.D
Lab Smp Id: IC-1531396
Inj Date : 24-APR-2013 14:16
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 13:57 Cal File: 1CD24007.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	139068	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	86346	40.0000	
* 10 Phenanthrene-d10	188	5.657	5.657	(1.000)	152225	40.0000	
$ 14 o-Terphenyl	230	5.915	5.915	(1.046)	439	0.20000	0.5641(Q)
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	191522	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	207323	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	1035	0.20000	0.2711(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	519	0.20000	-0.2877(aQ)
4 1-Methylnaphthalene	142	4.139	4.139	(1.139)	648	0.20000	0.2656(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	1481	0.20000	0.3206
7 Acenaphthene	154	4.739	4.739	(1.004)	184	0.20000	0.0818(Q)
9 Fluorene	166	5.063	5.063	(1.072)	308	0.20000	0.1176(Q)
11 Phenanthrene	178	5.674	5.674	(1.003)	560	0.20000	0.2028(Q)
12 Anthracene	178	5.710	5.710	(1.009)	1261	0.20000	0.2683(H)
13 Carbazole	167	5.821	5.821	(1.029)	866	0.20000	0.2067(M)
15 Fluoranthene	202	6.510	6.510	(1.151)	433	0.20000	0.0923(Q)
16 Pyrene	202	6.668	6.668	(0.879)	1068	0.20000	0.1888
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	2756	0.20000	0.4782
19 Chrysene	228	7.609	7.609	(1.003)	1172	0.20000	0.2142
20 Benzo(b)fluoranthene	252	8.409	8.409	(0.963)	1334	0.20000	0.2326
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	965	0.20000	0.1729(Q)
22 Benzo(a)pyrene	252	8.692	8.692	(0.995)	432	0.20000	0.0887(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	664	0.20000	0.7334(MH)
25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.126)	764	0.20000	0.3968(MH)
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	857	0.20000	0.1637(MH)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD24008.D

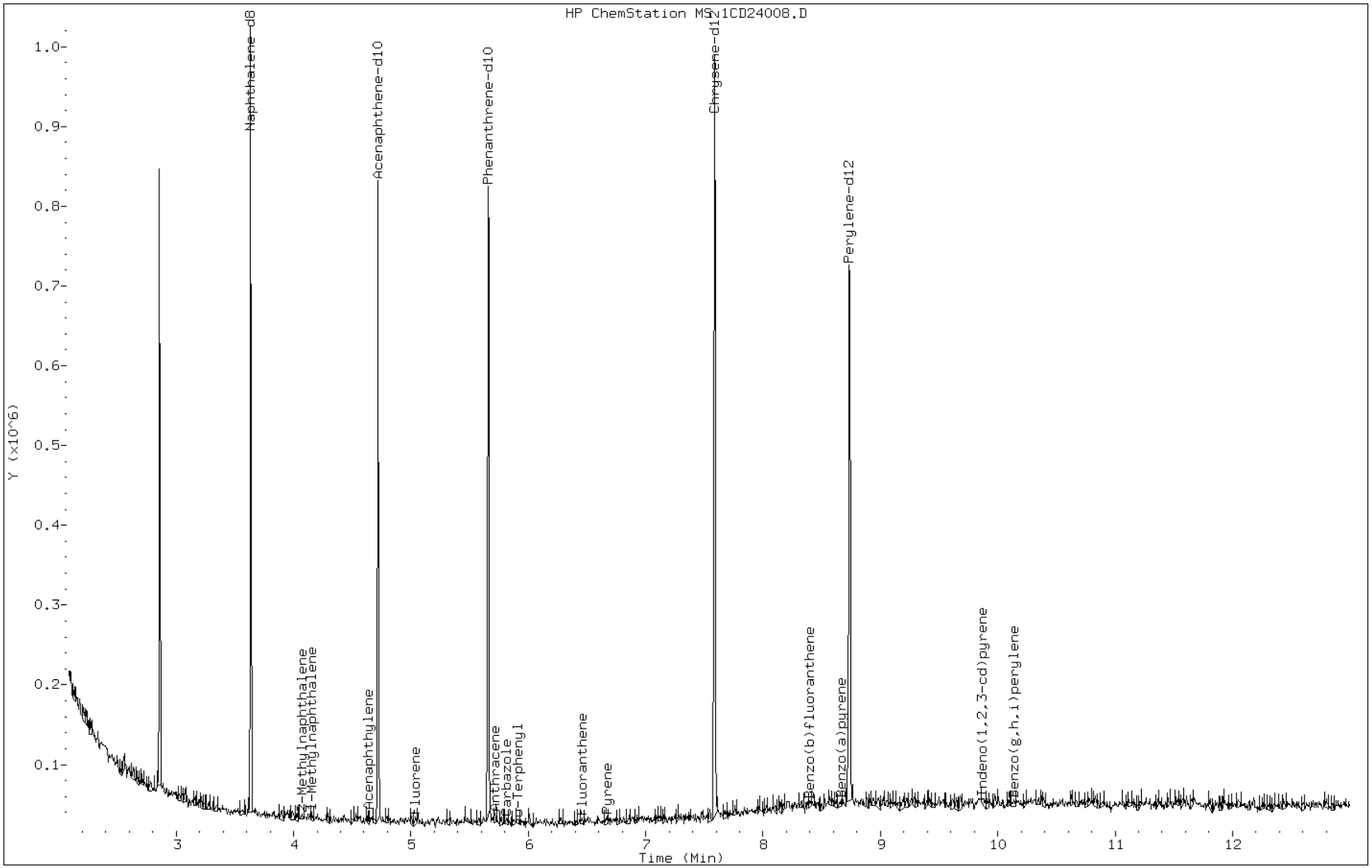
Date: 24-APR-2013 14:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531396

Operator: SCC



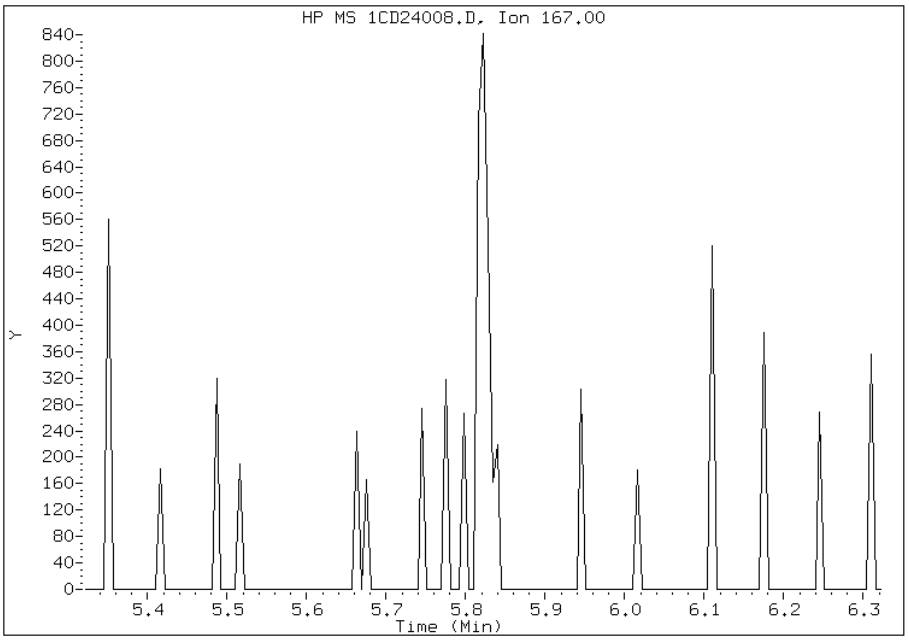
Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.82



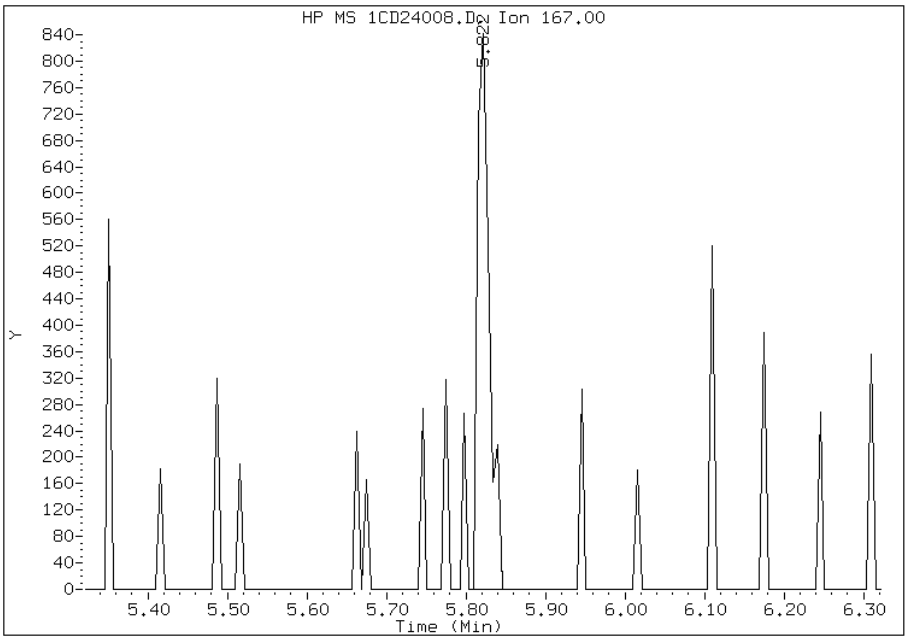
Manual Integration Results

RT: 5.82

Response: 866

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:05
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

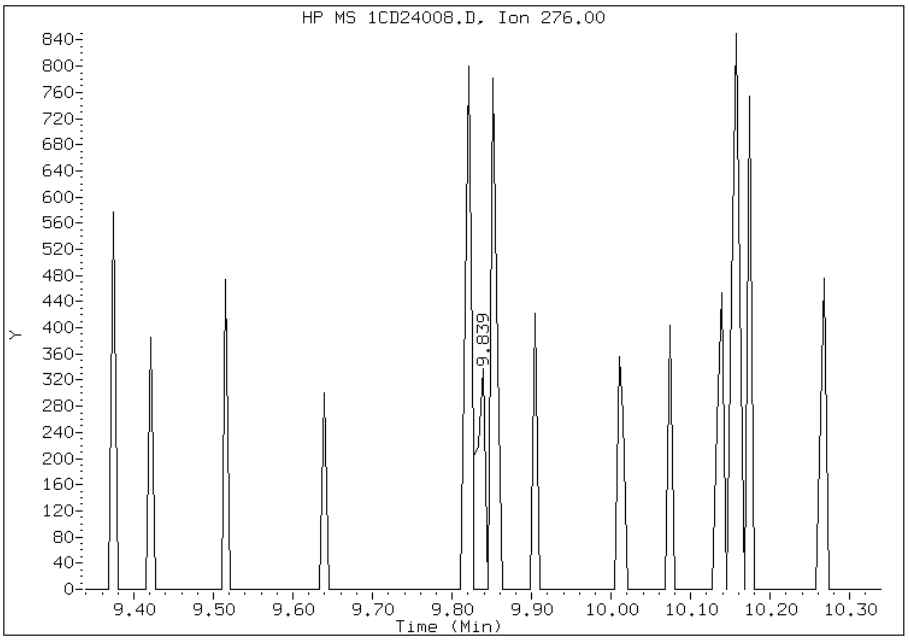
Processing Integration Results

RT: 9.84

Response: 268

Amount: 1

Conc: 1



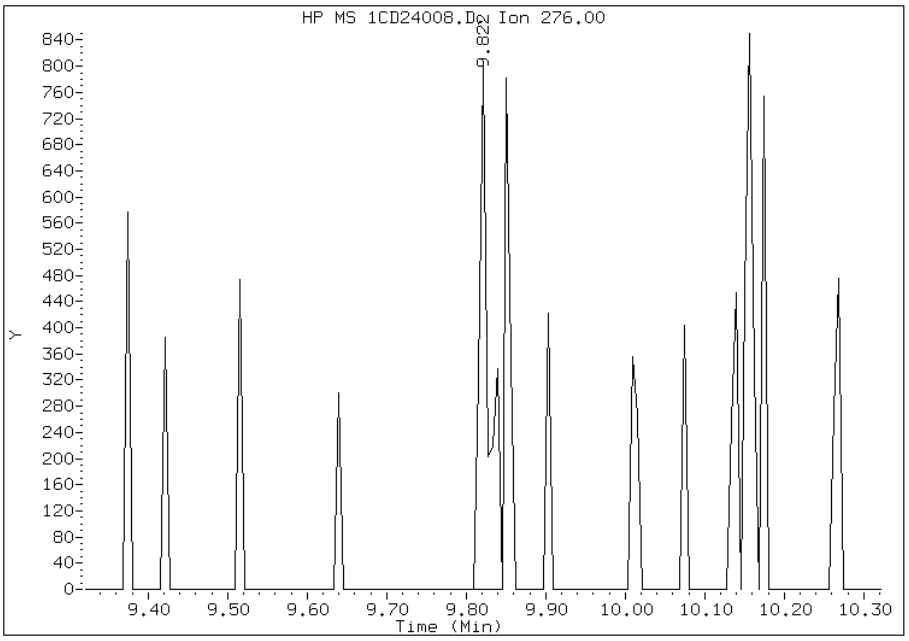
Manual Integration Results

RT: 9.82

Response: 664

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

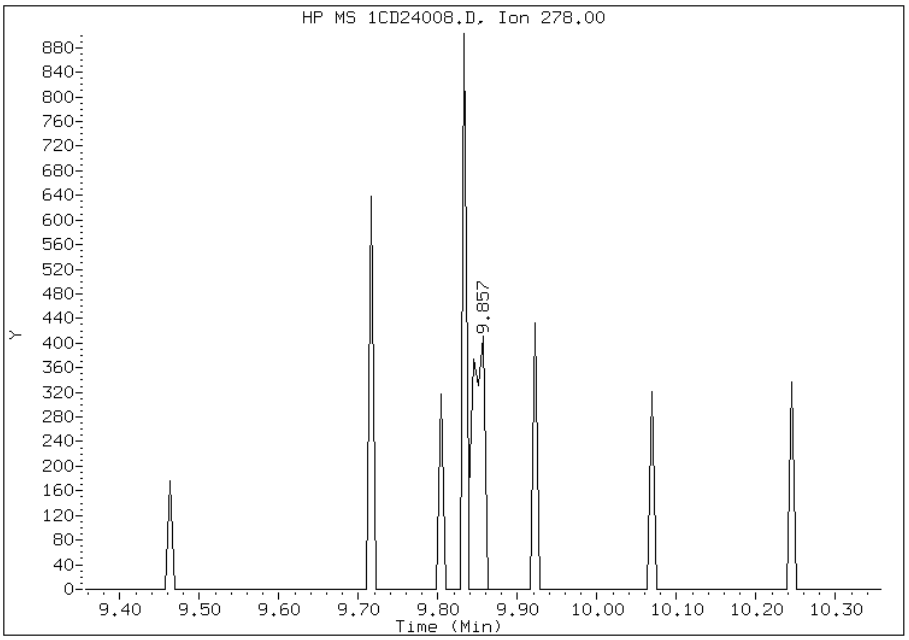
Processing Integration Results

RT: 9.86

Response: 447

Amount: 1

Conc: 1



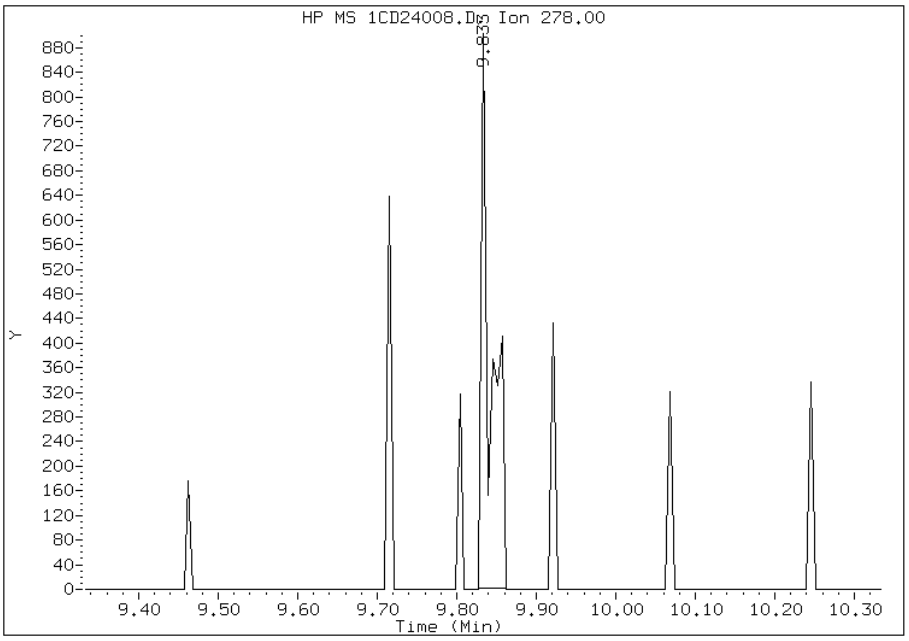
Manual Integration Results

RT: 9.83

Response: 764

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24008.D
Inj. Date and Time: 24-APR-2013 14:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

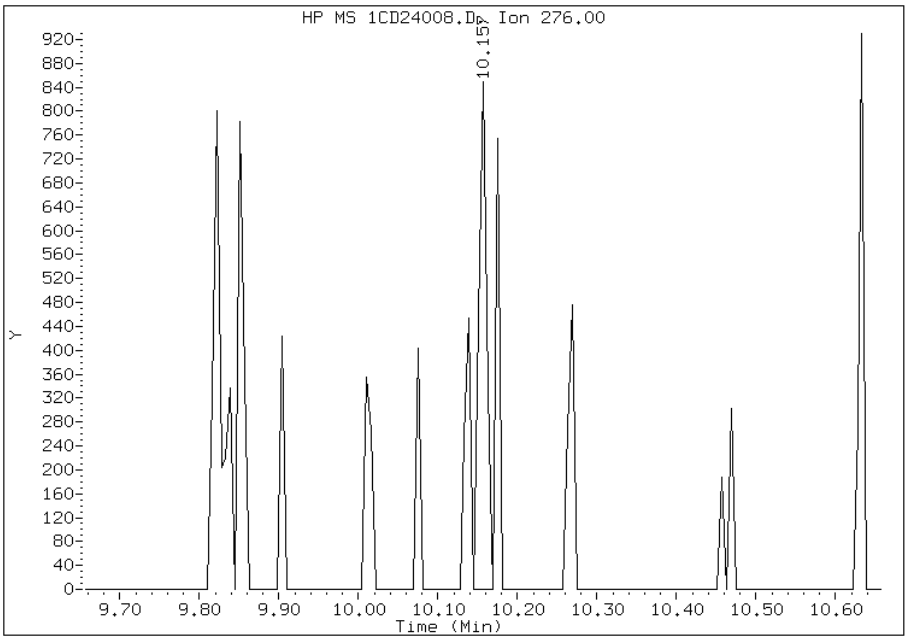
Processing Integration Results

RT: 10.16

Response: 578

Amount: 0

Conc: 0



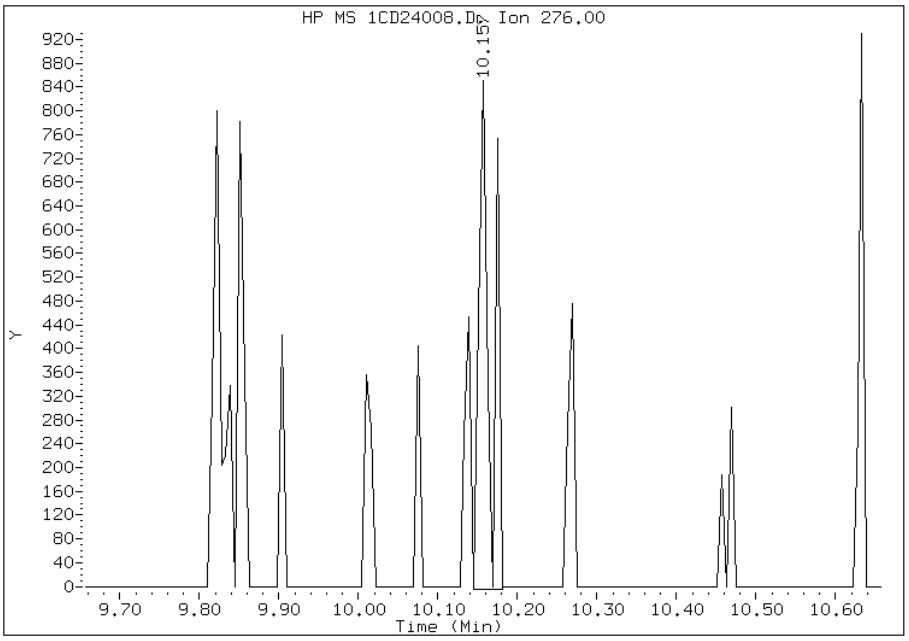
Manual Integration Results

RT: 10.16

Response: 857

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:07
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24009.D
Lab Smp Id: IC-1531398
Inj Date : 24-APR-2013 14:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:16 Cal File: 1CD24008.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	126978	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	79312	40.0000	
* 10 Phenanthrene-d10	188	5.657	5.657	(1.000)	132230	40.0000	
$ 14 o-Terphenyl	230	5.915	5.915	(1.046)	1649	1.00000	1.1890(Q)
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	149120	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	164557	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	2549	1.00000	0.7314(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	1339	1.00000	0.1469
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	2369	1.00000	1.0635(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	3801	1.00000	0.8958
7 Acenaphthene	154	4.739	4.739	(1.004)	2196	1.00000	1.0636(Q)
9 Fluorene	166	5.057	5.057	(1.071)	1754	1.00000	0.7295(QM)
11 Phenanthrene	178	5.674	5.674	(1.003)	3569	1.00000	0.9784(Q)
12 Anthracene	178	5.710	5.710	(1.009)	3614	1.00000	0.8852
13 Carbazole	167	5.821	5.821	(1.029)	2903	1.00000	0.7977
15 Fluoranthene	202	6.504	6.504	(1.150)	4827	1.00000	1.1847(Q)
16 Pyrene	202	6.668	6.668	(0.879)	4995	1.00000	1.1341
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	4071	1.00000	0.9073
19 Chrysene	228	7.609	7.609	(1.003)	3881	1.00000	0.9114
20 Benzo(b)fluoranthene	252	8.404	8.404	(0.962)	4851	1.00000	1.0658
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.964)	4210	1.00000	0.9507(Q)
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	3756	1.00000	0.9718(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.827	(1.125)	4226	1.00000	1.5419(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.845	(1.127)	4029	1.00000	1.1823(M)
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	4083	1.00000	0.9826(M)

QC Flag Legend

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

Data File: 1CD24009.D

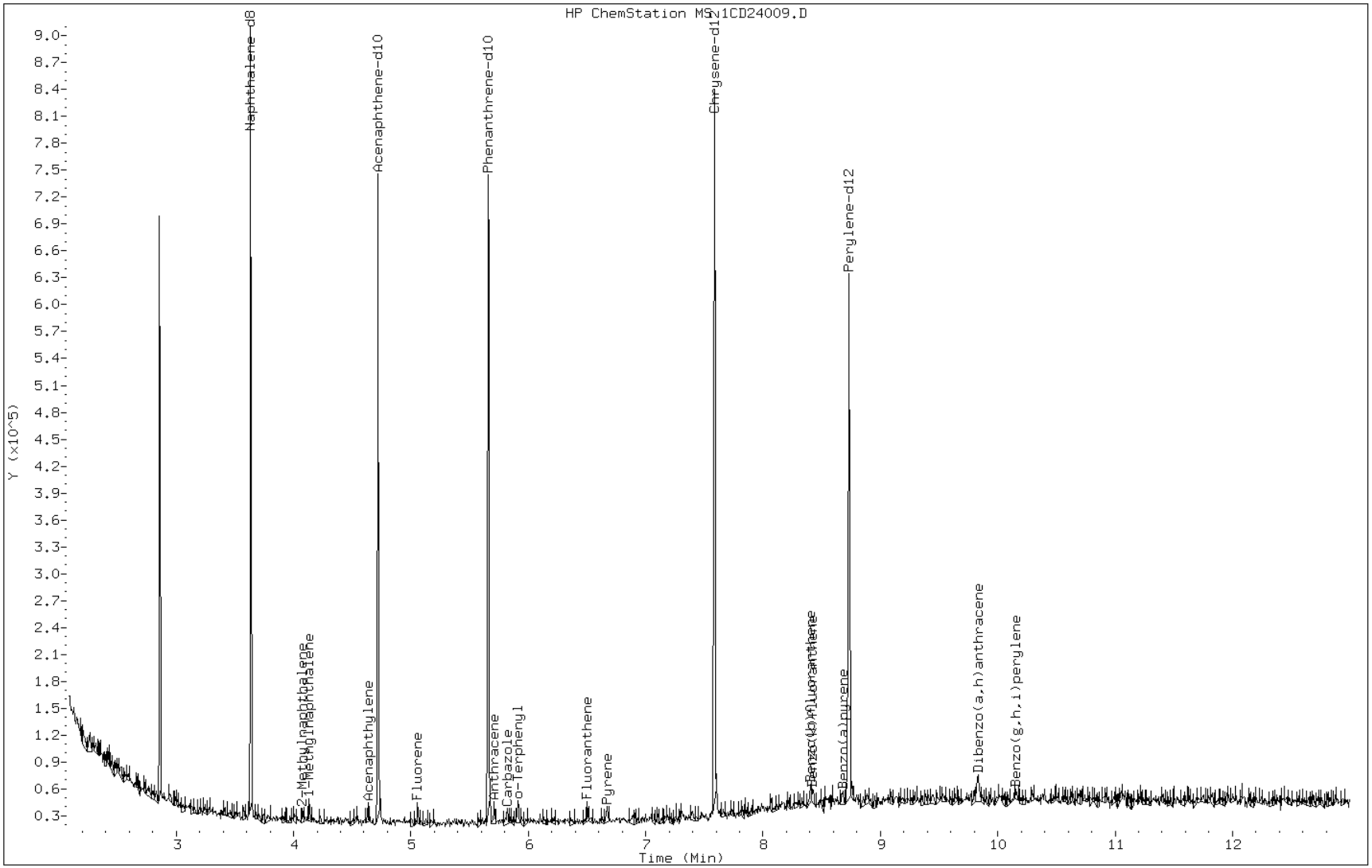
Date: 24-APR-2013 14:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531398

Operator: SCC



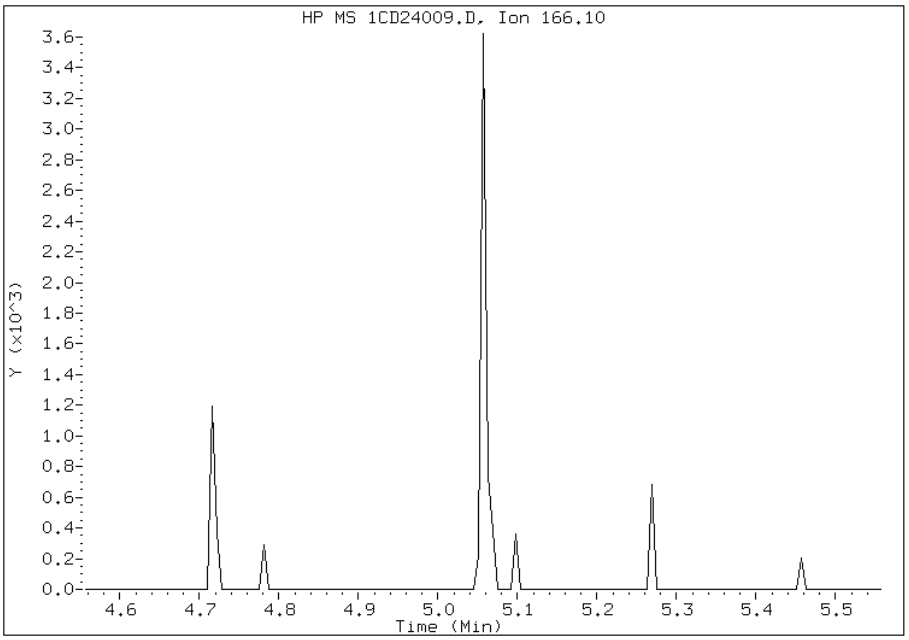
Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 9 Fluorene
CAS #: 86-73-7
Report Date: 04/24/2013

Processing Integration Results

Not Detected

Expected RT: 5.06



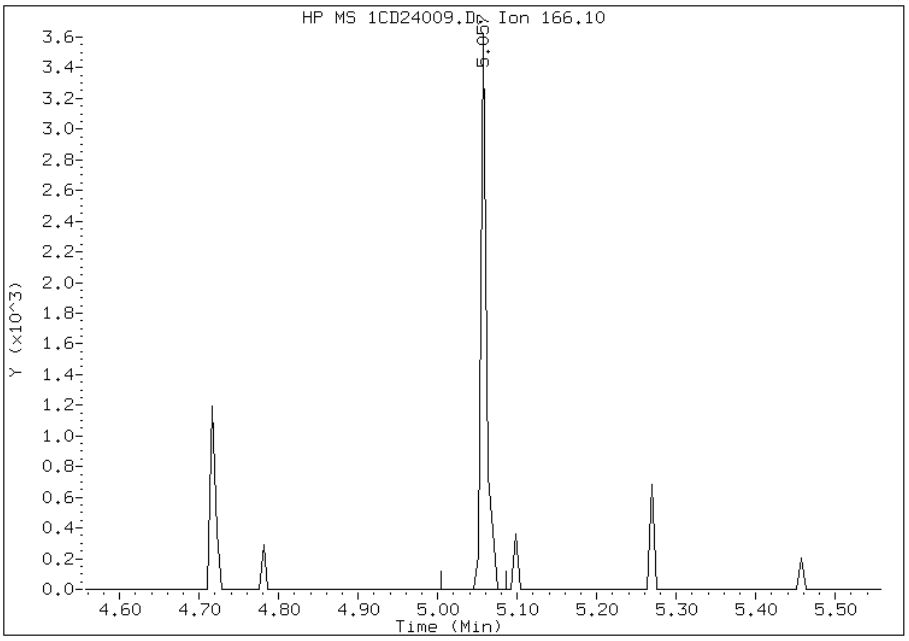
Manual Integration Results

RT: 5.06

Response: 1754

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

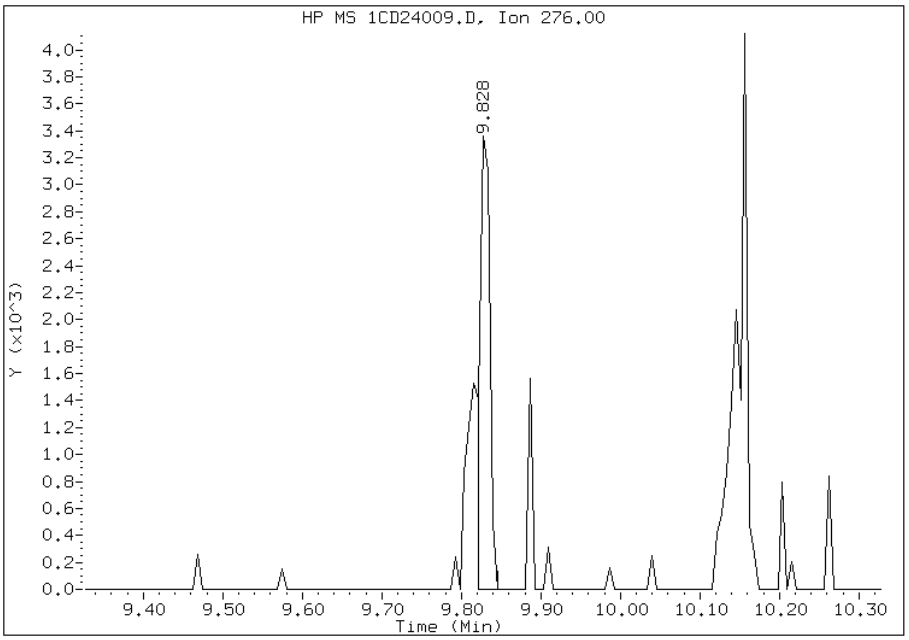
Processing Integration Results

RT: 9.83

Response: 2955

Amount: 2

Conc: 2



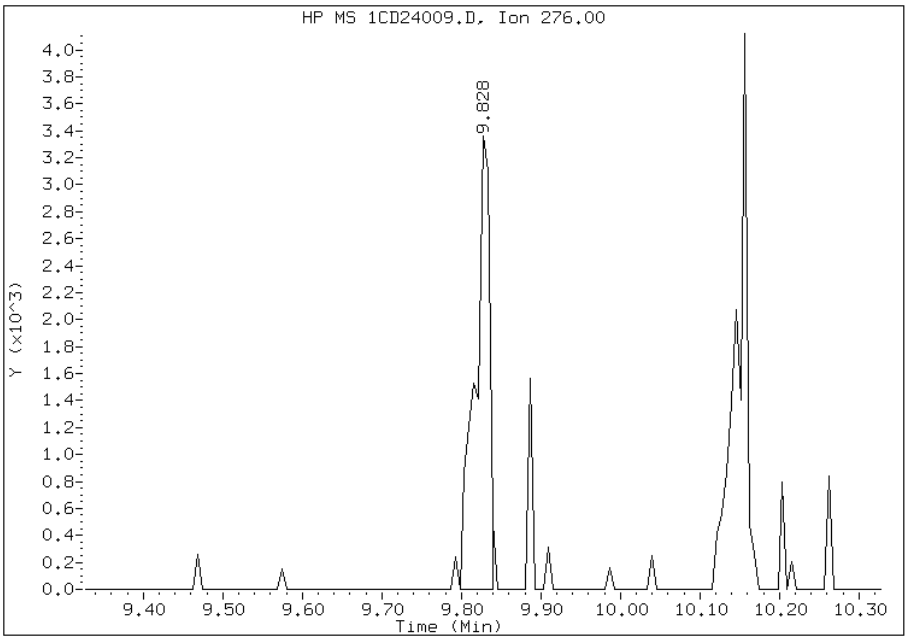
Manual Integration Results

RT: 9.83

Response: 4226

Amount: 2

Conc: 2



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/24/2013

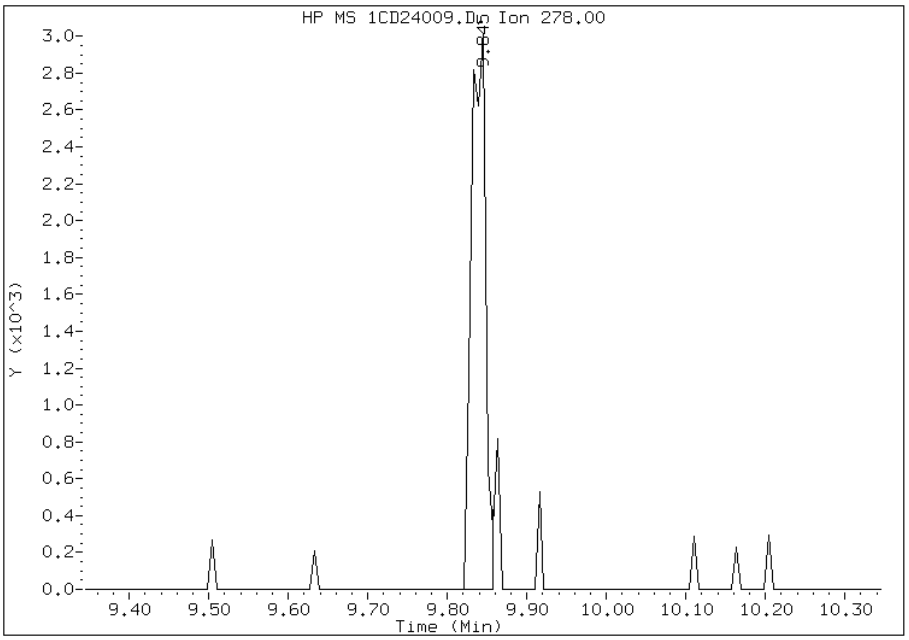
Processing Integration Results

RT: 9.85

Response: 3739

Amount: 1

Conc: 1



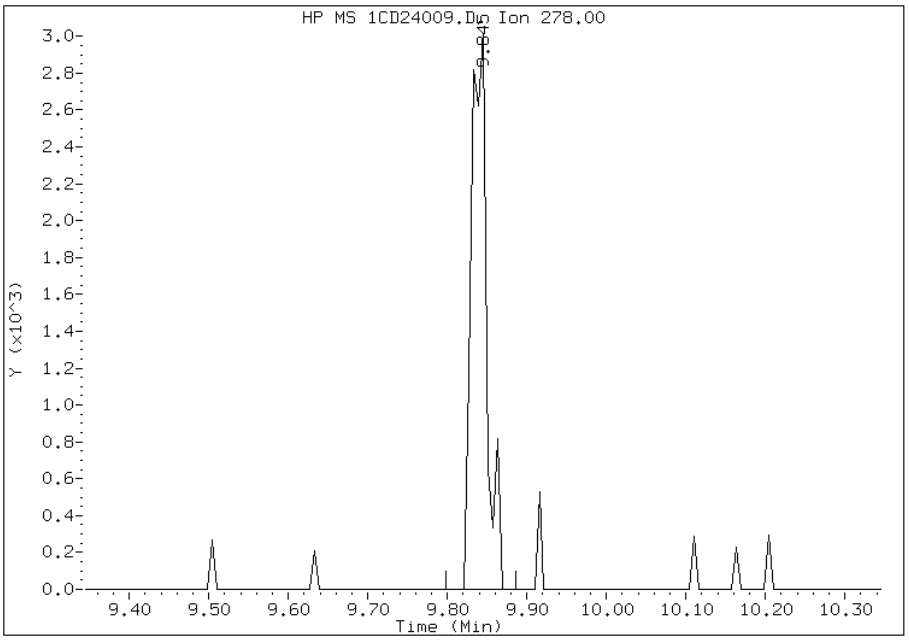
Manual Integration Results

RT: 9.85

Response: 4029

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24009.D
Inj. Date and Time: 24-APR-2013 14:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

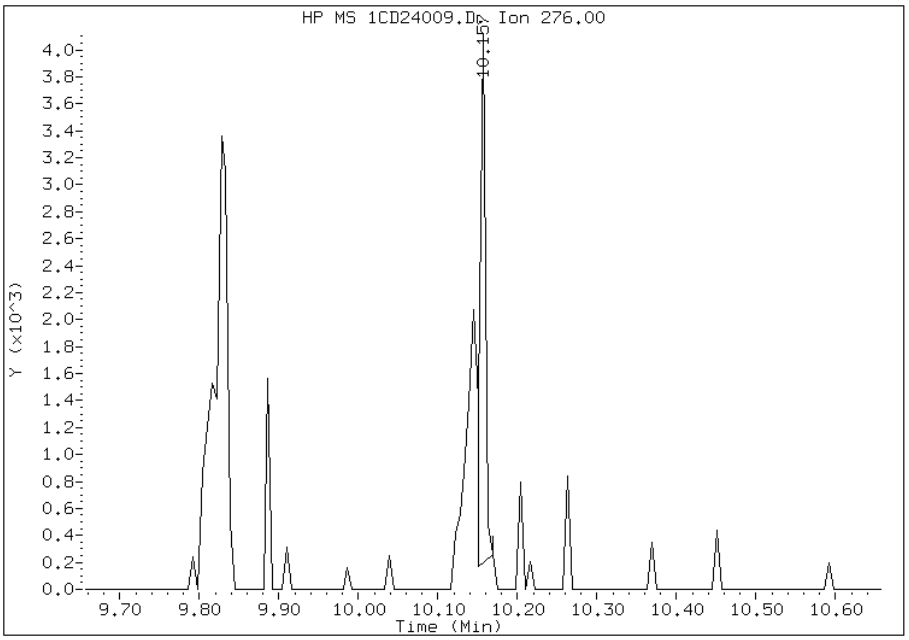
Processing Integration Results

RT: 10.16

Response: 1906

Amount: 0

Conc: 0



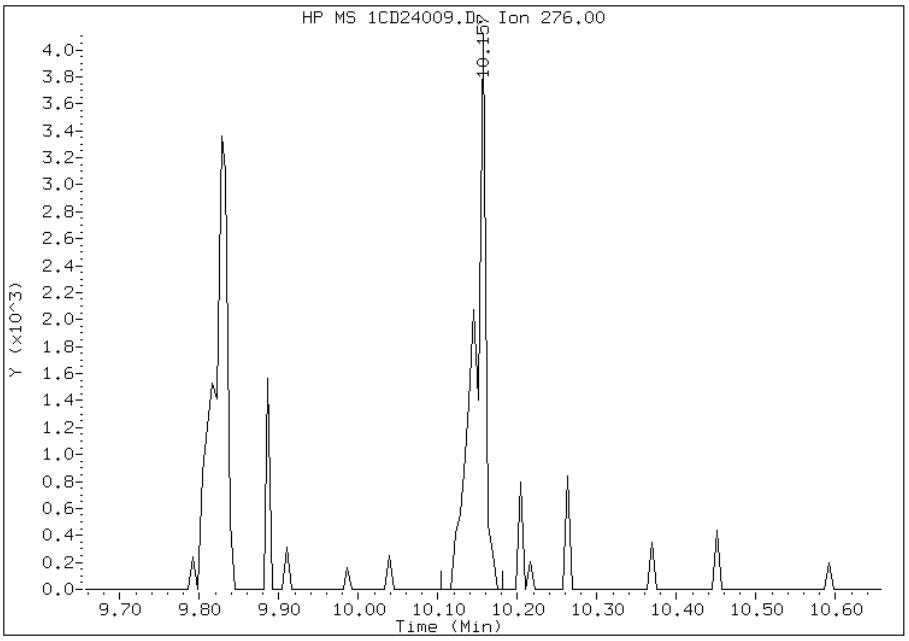
Manual Integration Results

RT: 10.16

Response: 4083

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:14
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24010.D
Lab Smp Id: IC-1531399
Inj Date : 24-APR-2013 14:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:34 Cal File: 1CD24009.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	132911	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	76929	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	138489	40.0000	
$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	10394	5.00000	5.2683
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	181945	40.0000	
* 23 Perylene-d12	264	8.727	8.727	(1.000)	215540	40.0000	
2 Naphthalene	128	3.651	3.651	(1.005)	20341	5.00000	5.5765(Q)
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	10424	5.00000	4.4786(Q)
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	11516	5.00000	4.9391(Q)
5 Acenaphthylene	152	4.633	4.633	(0.981)	20507	5.00000	4.9828
7 Acenaphthene	154	4.739	4.739	(1.004)	11510	5.00000	5.7477(Q)
9 Fluorene	166	5.057	5.057	(1.071)	13841	5.00000	5.9354(Q)
11 Phenanthrene	178	5.674	5.674	(1.002)	20935	5.00000	5.1331
12 Anthracene	178	5.709	5.709	(1.008)	22082	5.00000	5.1645
13 Carbazole	167	5.815	5.815	(1.027)	20351	5.00000	5.3395
15 Fluoranthene	202	6.504	6.504	(1.149)	22974	5.00000	5.3839
16 Pyrene	202	6.668	6.668	(0.879)	28020	5.00000	5.2145
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	22168	5.00000	4.0493
19 Chrysene	228	7.609	7.609	(1.003)	25011	5.00000	4.8139
20 Benzo(b)fluoranthene	252	8.398	8.398	(0.962)	22111	5.00000	3.7091
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	27095	5.00000	4.6713
22 Benzo(a)pyrene	252	8.674	8.674	(0.994)	23731	5.00000	4.6880
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	20110	5.00000	3.9740(M)
25 Dibenzo(a,h)anthracene	278	9.833	9.833	(1.127)	25125	5.00000	4.6603
26 Benzo(g,h,i)perylene	276	10.144	10.144	(1.162)	27296	5.00000	5.0155

QC Flag Legend

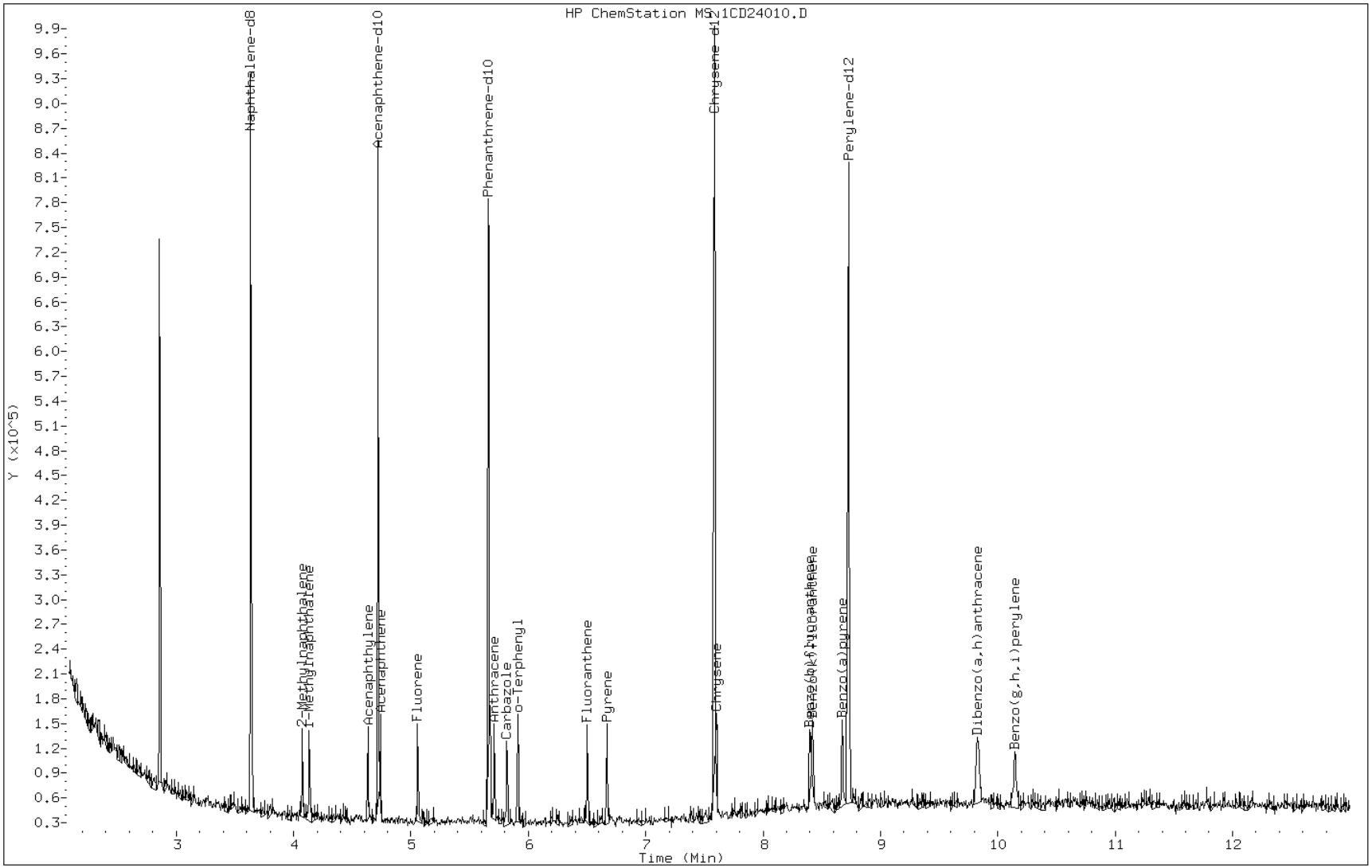
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD24010.D

Date: 24-APR-2013 14:52

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1CD24010.D
Inj. Date and Time: 24-APR-2013 14:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

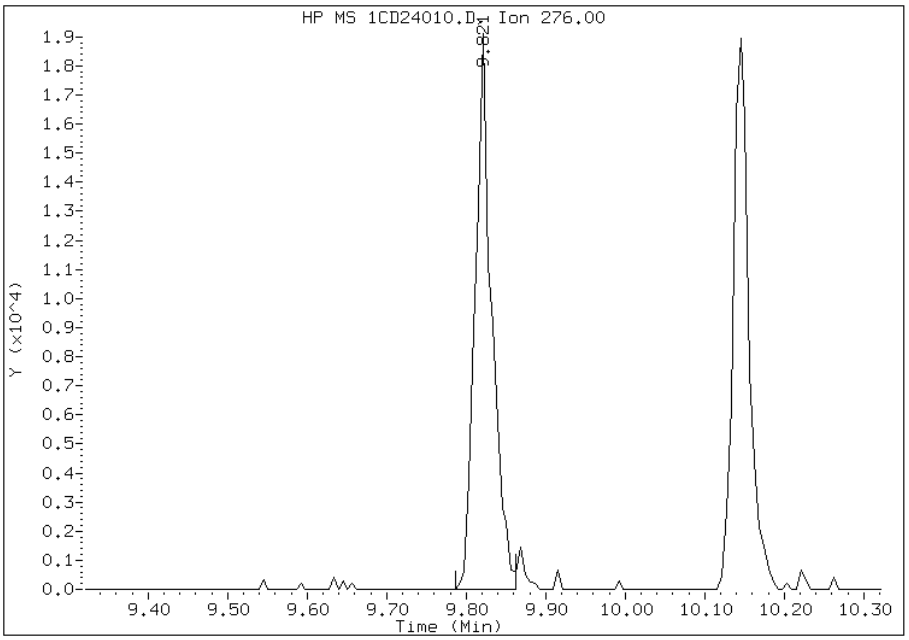
Processing Integration Results

RT: 9.82

Response: 27620

Amount: 6

Conc: 6



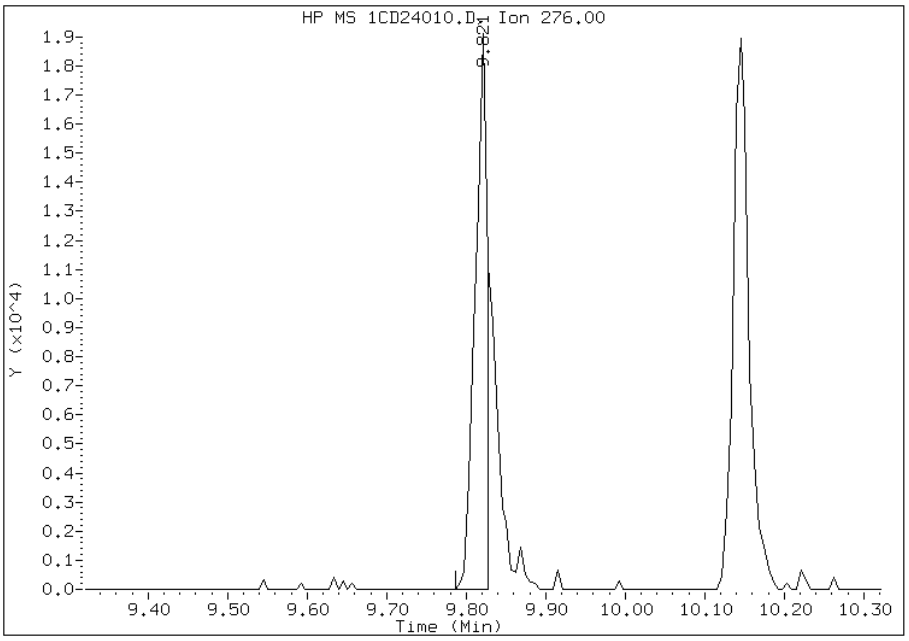
Manual Integration Results

RT: 9.82

Response: 20110

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24011.D
Lab Smp Id: IC-1531400
Inj Date : 24-APR-2013 15:11
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 14:52 Cal File: 1CD24010.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	136256	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	80647	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.662	(1.000)	151912	40.0000	
$ 14 o-Terphenyl	230	5.909	5.909	(1.044)	22471	10.0000	10.0180
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	186755	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	207585	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	36506	10.0000	9.7624
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	22212	10.0000	9.8763
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	22472	10.0000	9.4015
5 Acenaphthylene	152	4.633	4.633	(0.981)	36679	10.0000	8.5014
7 Acenaphthene	154	4.739	4.739	(1.004)	20558	10.0000	9.7927
9 Fluorene	166	5.057	5.057	(1.071)	24378	10.0000	9.9720
11 Phenanthrene	178	5.674	5.674	(1.002)	44728	10.0000	9.9757
12 Anthracene	178	5.709	5.709	(1.008)	37381	10.0000	7.9702
13 Carbazole	167	5.815	5.815	(1.027)	41744	10.0000	9.9847
15 Fluoranthene	202	6.504	6.504	(1.149)	47287	10.0000	10.1026
16 Pyrene	202	6.668	6.668	(0.879)	49927	10.0000	9.0520
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	49156	10.0000	8.7479
19 Chrysene	228	7.609	7.609	(1.003)	52901	10.0000	9.9197
20 Benzo(b)fluoranthene	252	8.403	8.403	(0.962)	53250	10.0000	9.2751
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	54841	10.0000	9.8172
22 Benzo(a)pyrene	252	8.680	8.680	(0.994)	53716	10.0000	11.0182
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	53522	10.0000	9.8918(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	49442	10.0000	9.2535
26 Benzo(g,h,i)perylene	276	10.156	10.156	(1.163)	52142	10.0000	9.9479(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24011.D

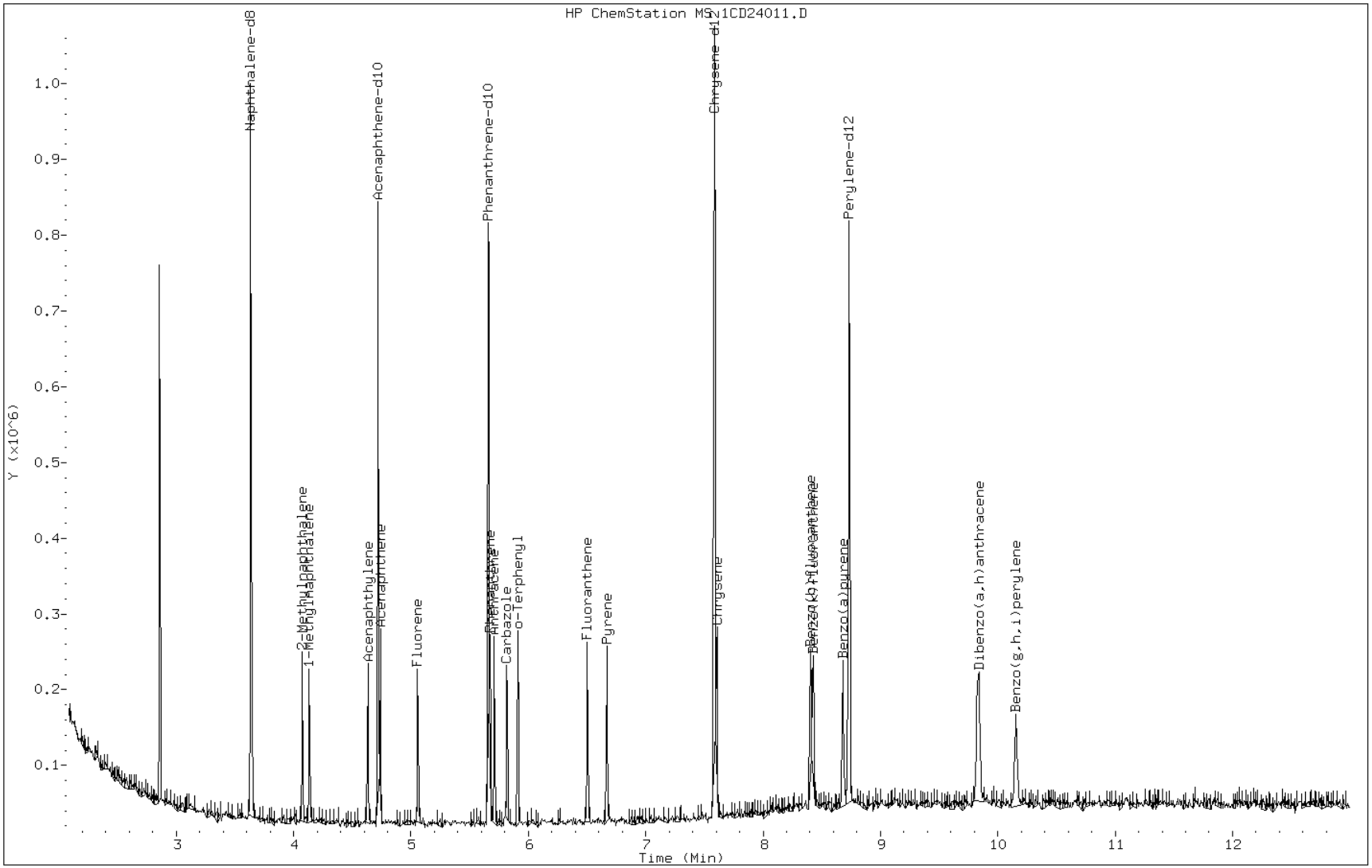
Date: 24-APR-2013 15:11

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

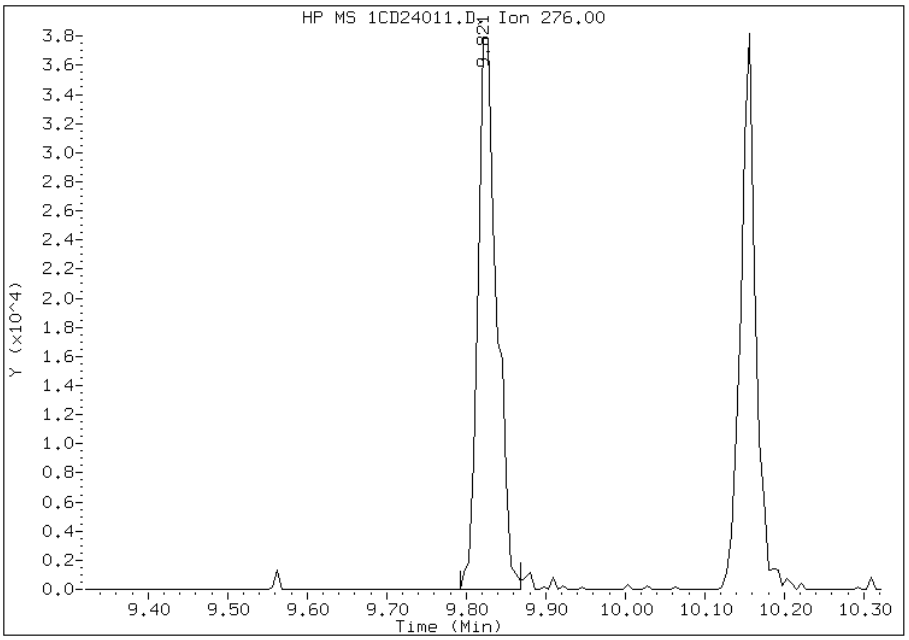
Processing Integration Results

RT: 9.82

Response: 62952

Amount: 10

Conc: 10



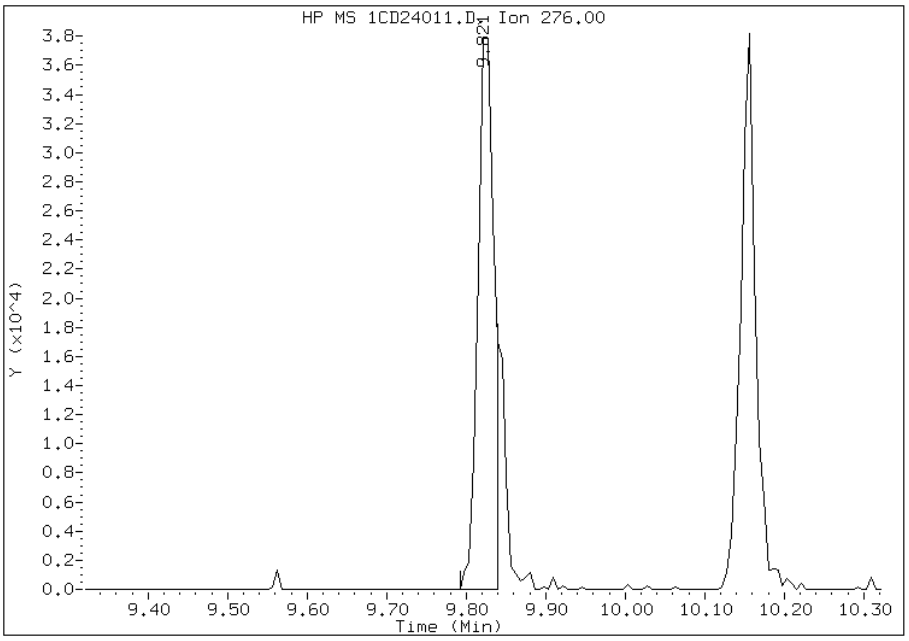
Manual Integration Results

RT: 9.82

Response: 53522

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CD24011.D
Inj. Date and Time: 24-APR-2013 15:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/24/2013

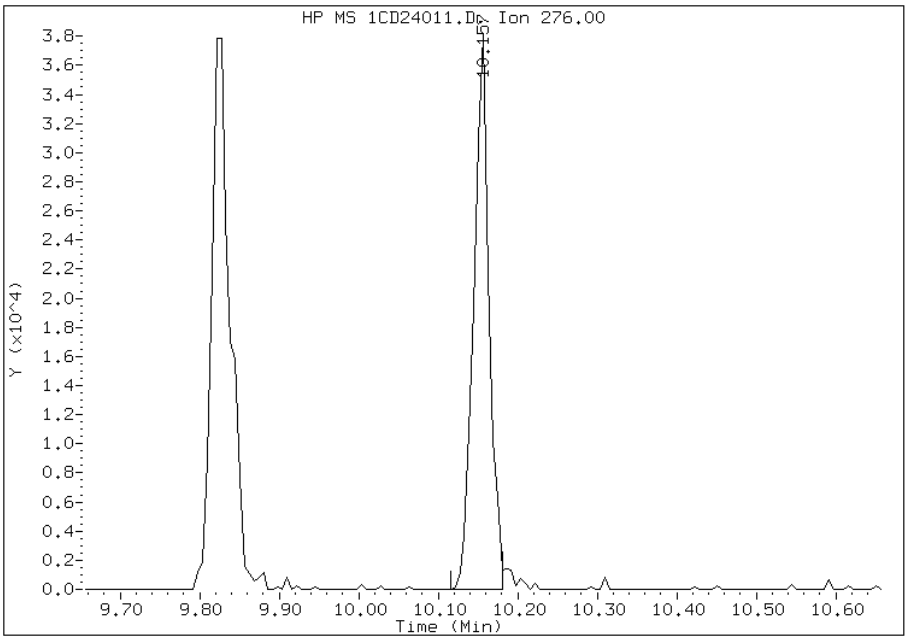
Processing Integration Results

RT: 10.16

Response: 50699

Amount: 11

Conc: 11



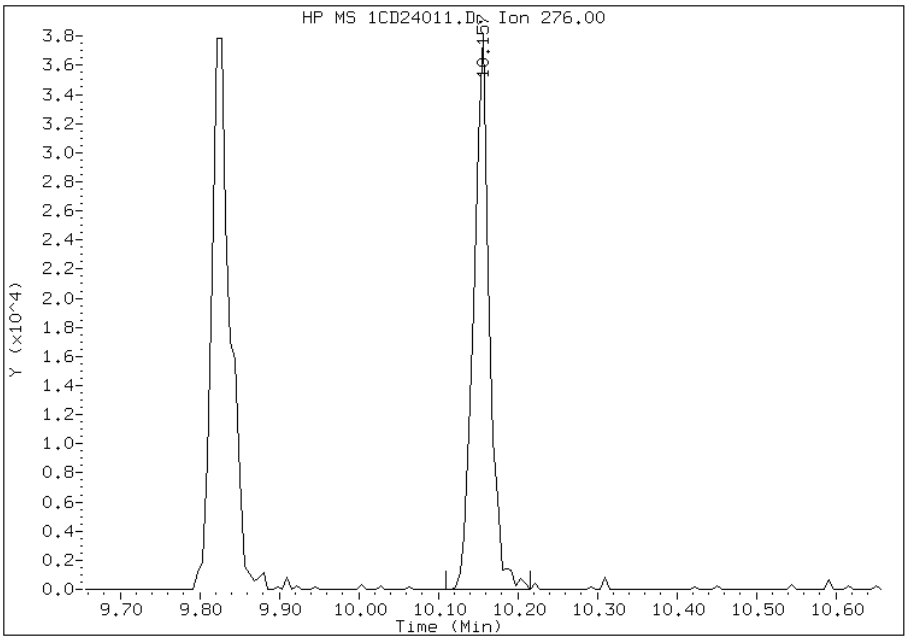
Manual Integration Results

RT: 10.16

Response: 52142

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:20
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24012.D
Lab Smp Id: IC-1531402
Inj Date : 24-APR-2013 15:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:11 Cal File: 1CD24011.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	129196	40.0000	
* 6 Acenaphthene-d10	164	4.722	4.722	(1.000)	74931	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	141643	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	58861	30.0000	27.4632
* 18 Chrysene-d12	240	7.586	7.586	(1.000)	174270	40.0000	
* 23 Perylene-d12	264	8.727	8.727	(1.000)	185685	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	103423	30.0000	29.1688
3 2-Methylnaphthalene	142	4.075	4.075	(1.121)	63749	30.0000	30.9602
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	60013	30.0000	26.4794
5 Acenaphthylene	152	4.633	4.633	(0.981)	116035	30.0000	28.9463
7 Acenaphthene	154	4.739	4.739	(1.004)	70759	30.0000	36.2770
9 Fluorene	166	5.057	5.057	(1.071)	80821	30.0000	35.5826
11 Phenanthrene	178	5.674	5.674	(1.002)	124603	30.0000	30.3046
12 Anthracene	178	5.710	5.710	(1.008)	133306	30.0000	30.4837
13 Carbazole	167	5.816	5.816	(1.027)	124856	30.0000	32.0294
15 Fluoranthene	202	6.504	6.504	(1.149)	140868	30.0000	32.2775
16 Pyrene	202	6.668	6.668	(0.879)	148768	30.0000	28.9049
17 Benzo(a)anthracene	228	7.580	7.580	(0.999)	146829	30.0000	28.0019
19 Chrysene	228	7.610	7.610	(1.003)	152301	30.0000	30.6047
20 Benzo(b)fluoranthene	252	8.404	8.404	(0.963)	179789	30.0000	35.0092
21 Benzo(k)fluoranthene	252	8.421	8.421	(0.965)	147881	30.0000	29.5949
22 Benzo(a)pyrene	252	8.680	8.680	(0.995)	157348	30.0000	36.0817
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.821	(1.125)	158186	30.0000	31.2592(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.839	(1.127)	150284	30.0000	30.8266
26 Benzo(g,h,i)perylene	276	10.151	10.151	(1.163)	159984	30.0000	34.1227

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24012.D

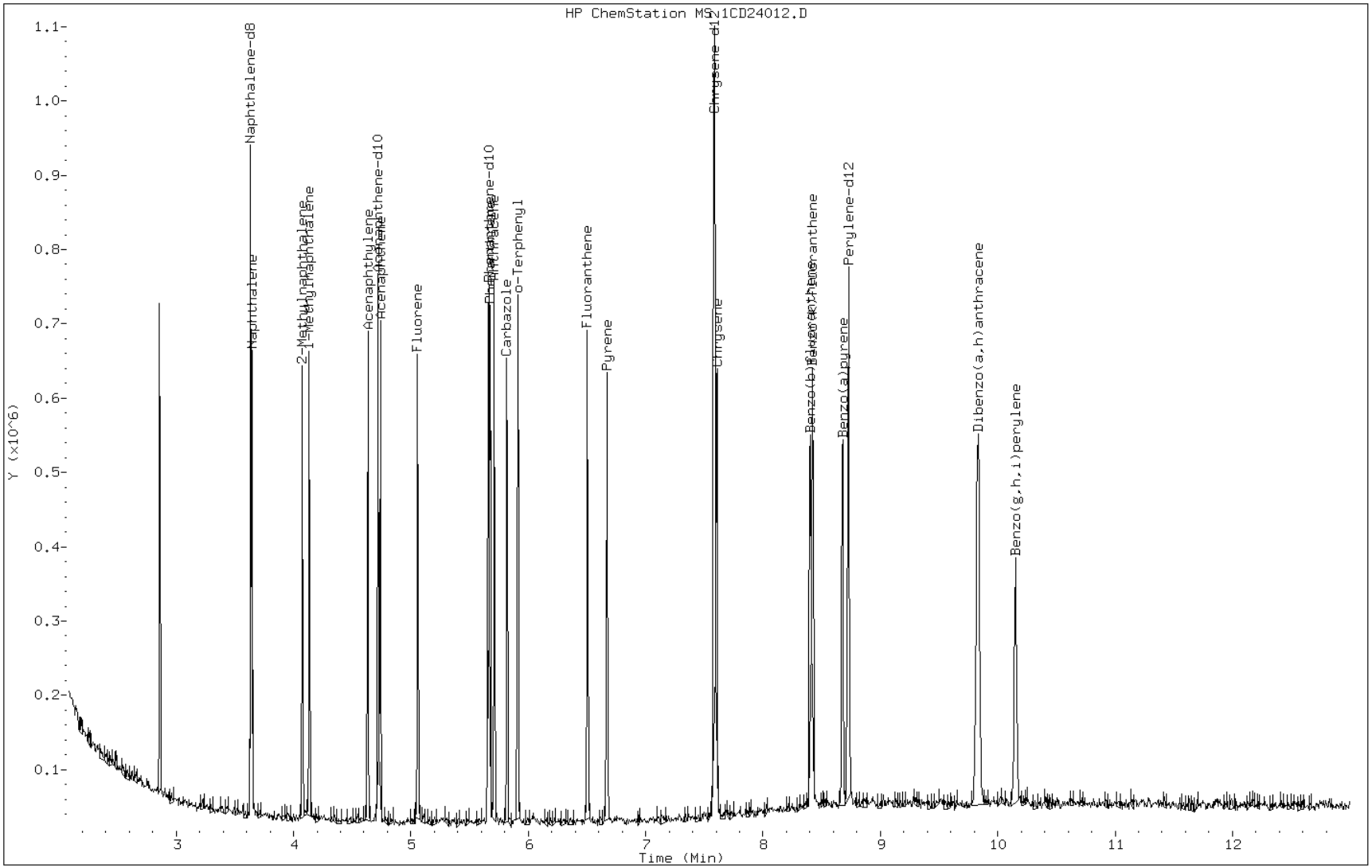
Date: 24-APR-2013 15:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531402

Operator: SCC



Manual Integration Report

Data File: 1CD24012.D
Inj. Date and Time: 24-APR-2013 15:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

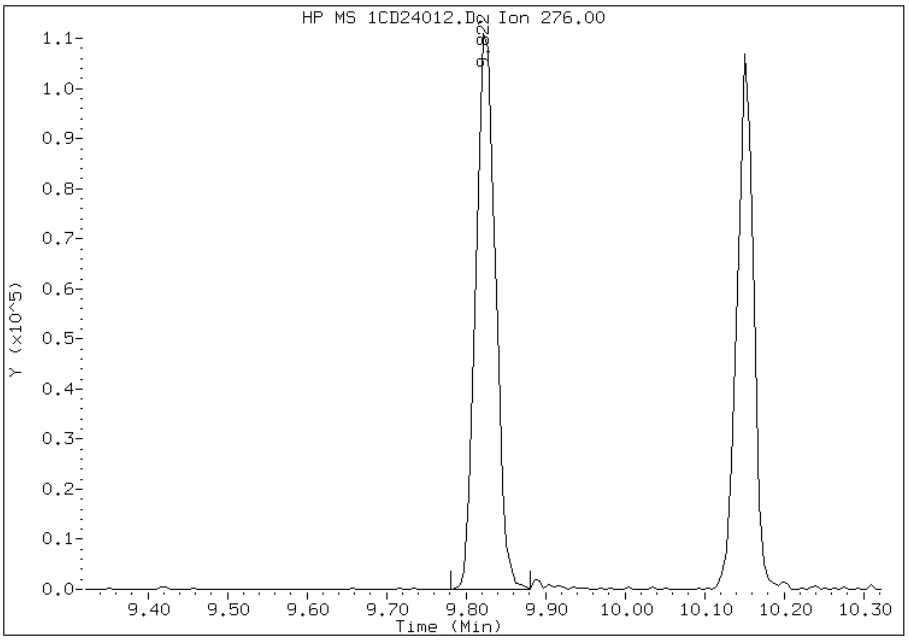
Processing Integration Results

RT: 9.82

Response: 189780

Amount: 36

Conc: 36



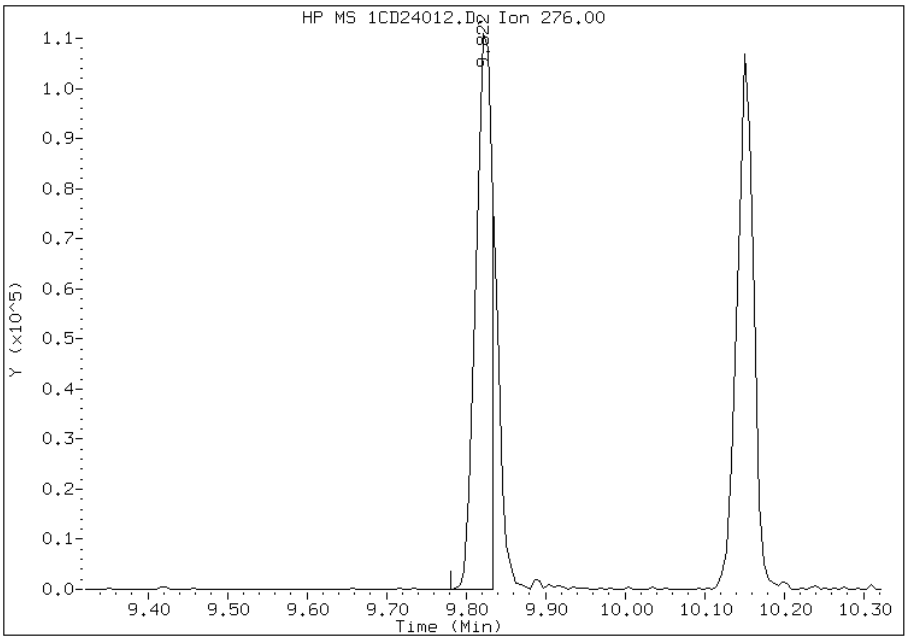
Manual Integration Results

RT: 9.82

Response: 158186

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:21
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24013.D
Lab Smp Id: IC-1531403
Inj Date : 24-APR-2013 15:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:22 BSMC5973.i Quant Type: ISTD
Cal Date : 24-APR-2013 15:29 Cal File: 1CD24012.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.633	3.633	(1.000)	154092	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.721	(1.000)	91835	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	166249	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	129301	50.0000	51.0720(A)
* 18 Chrysene-d12	240	7.592	7.592	(1.000)	195103	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	233898	40.0000	
2 Naphthalene	128	3.645	3.645	(1.003)	191564	50.0000	45.2985
3 2-Methylnaphthalene	142	4.074	4.074	(1.121)	117199	50.0000	48.0073
4 1-Methylnaphthalene	142	4.133	4.133	(1.138)	110635	50.0000	40.9284
5 Acenaphthylene	152	4.633	4.633	(0.981)	202374	50.0000	41.1919
7 Acenaphthene	154	4.739	4.739	(1.004)	128735	50.0000	53.8518(A)
9 Fluorene	166	5.057	5.057	(1.071)	153739	50.0000	55.2269(A)
11 Phenanthrene	178	5.674	5.674	(1.002)	236464	50.0000	49.9376
12 Anthracene	178	5.710	5.710	(1.008)	244157	50.0000	47.5689
13 Carbazole	167	5.821	5.821	(1.028)	234016	50.0000	51.1471(A)
15 Fluoranthene	202	6.504	6.504	(1.149)	273177	50.0000	53.3296(A)
16 Pyrene	202	6.674	6.674	(0.879)	302673	50.0000	52.5285(A)
17 Benzo(a)anthracene	228	7.580	7.580	(0.998)	305445	50.0000	52.0317(A)
19 Chrysene	228	7.610	7.610	(1.002)	296655	50.0000	53.2472(A)
20 Benzo(b)fluoranthene	252	8.409	8.409	(0.963)	310324	50.0000	47.9716
21 Benzo(k)fluoranthene	252	8.427	8.427	(0.965)	360897	50.0000	57.3375(A)
22 Benzo(a)pyrene	252	8.686	8.686	(0.995)	313949	50.0000	57.1526(A)
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.126)	318480	50.0000	49.5924(M)
25 Dibenzo(a,h)anthracene	278	9.851	9.851	(1.128)	304881	50.0000	49.4898
26 Benzo(g,h,i)perylene	276	10.162	10.162	(1.164)	306375	50.0000	51.8765(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CD24013.D

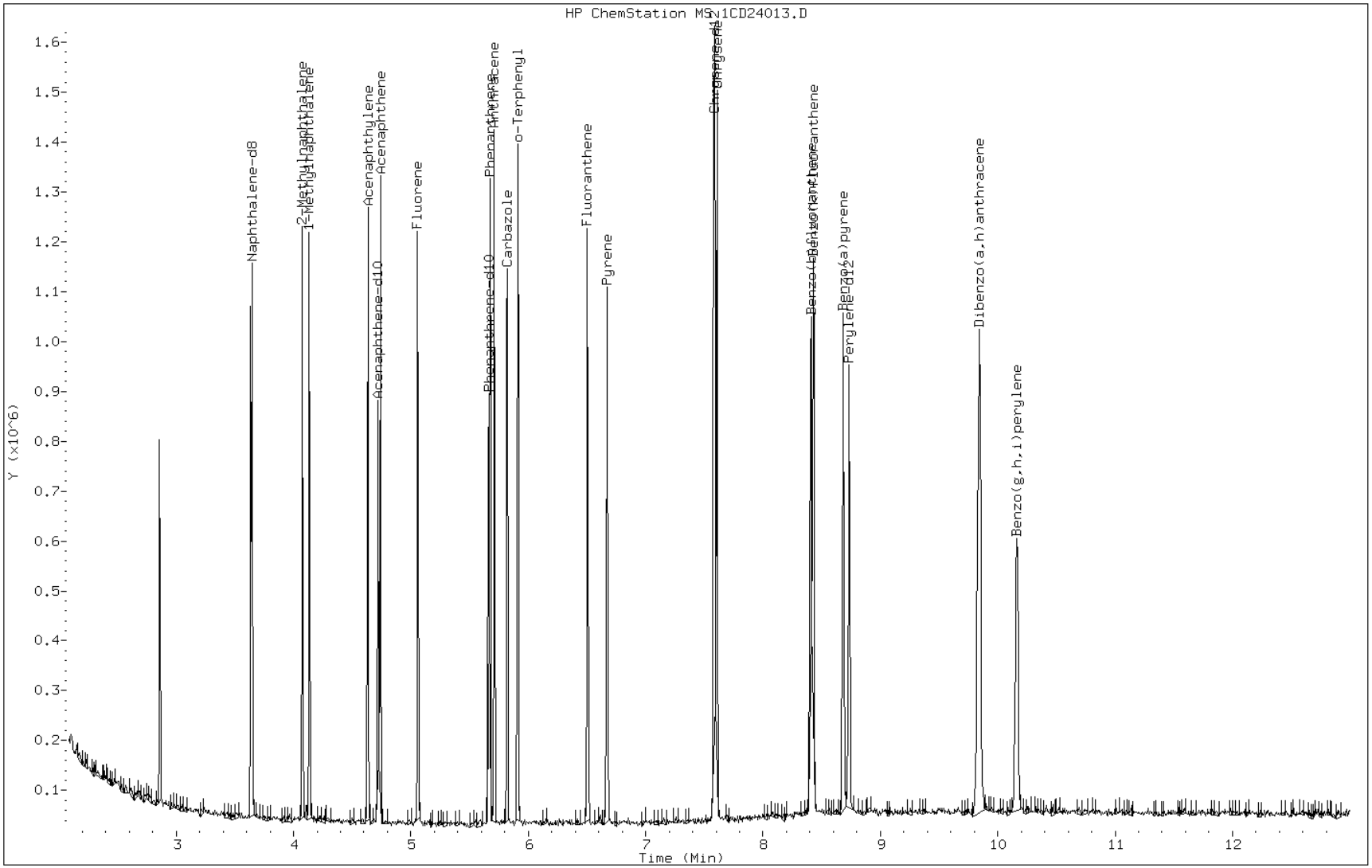
Date: 24-APR-2013 15:47

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1531403

Operator: SCC



Manual Integration Report

Data File: 1CD24013.D
Inj. Date and Time: 24-APR-2013 15:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

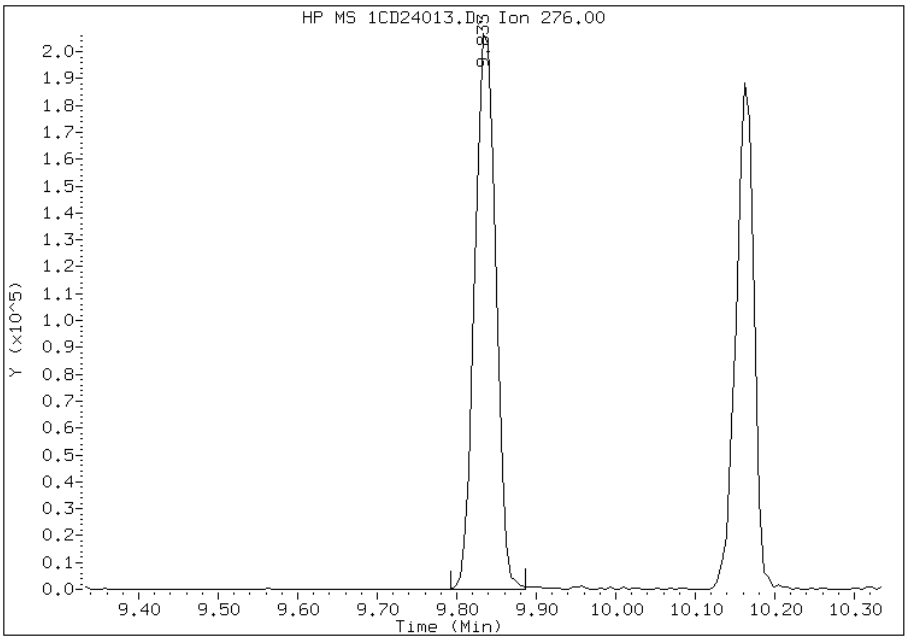
Processing Integration Results

RT: 9.83

Response: 377776

Amount: 50

Conc: 50



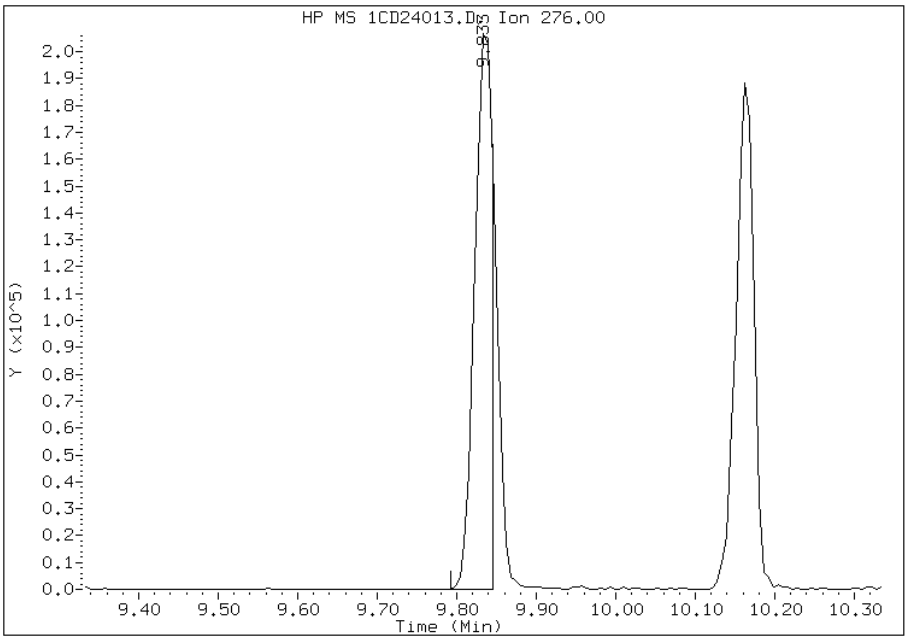
Manual Integration Results

RT: 9.83

Response: 318480

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:22
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-89513-1 Analy Batch No.: 136164

SDG No.: 68089513-1

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.: 680-89513-1 Analy Batch No.: 136164

SDG No.: 68089513-1

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.: 680-89513-1 Analy Batch No.: 136164

SDG No.: 68089513-1

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.: 680-89513-1 Analy Batch No.: 136164

SDG No.: 68089513-1

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
$ 13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
* 17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
* 22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04007.D

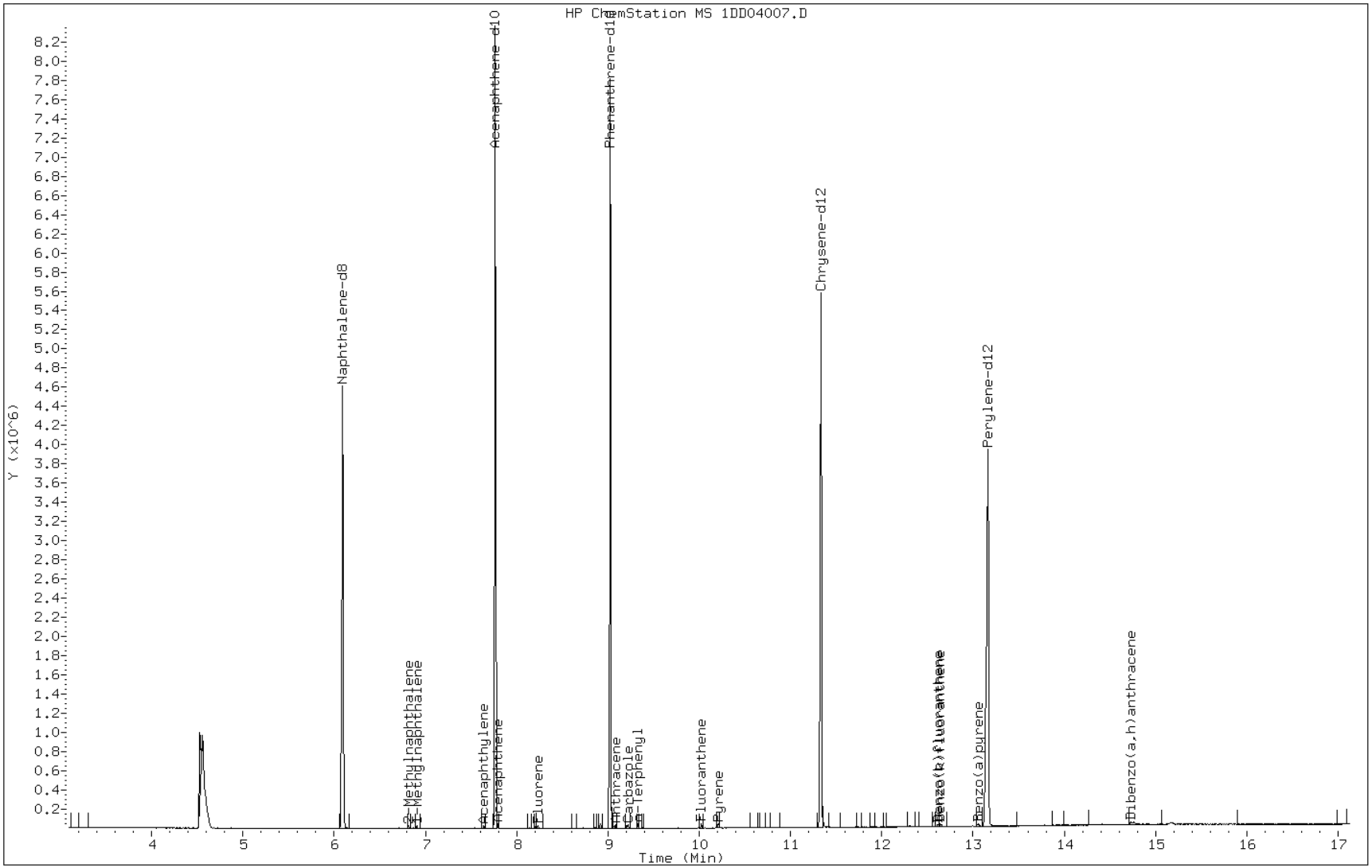
Date: 04-APR-2013 13:49

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531396

Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

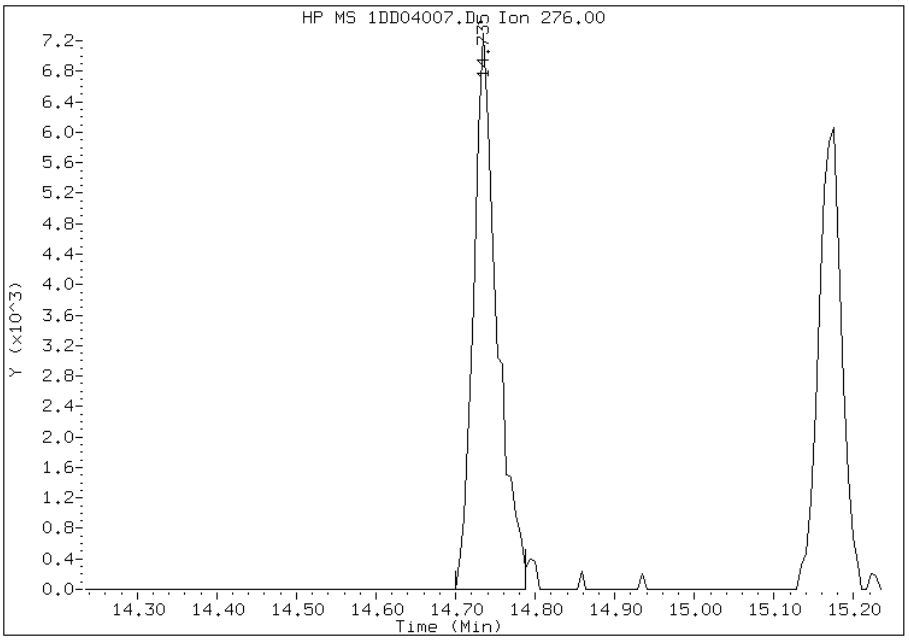
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



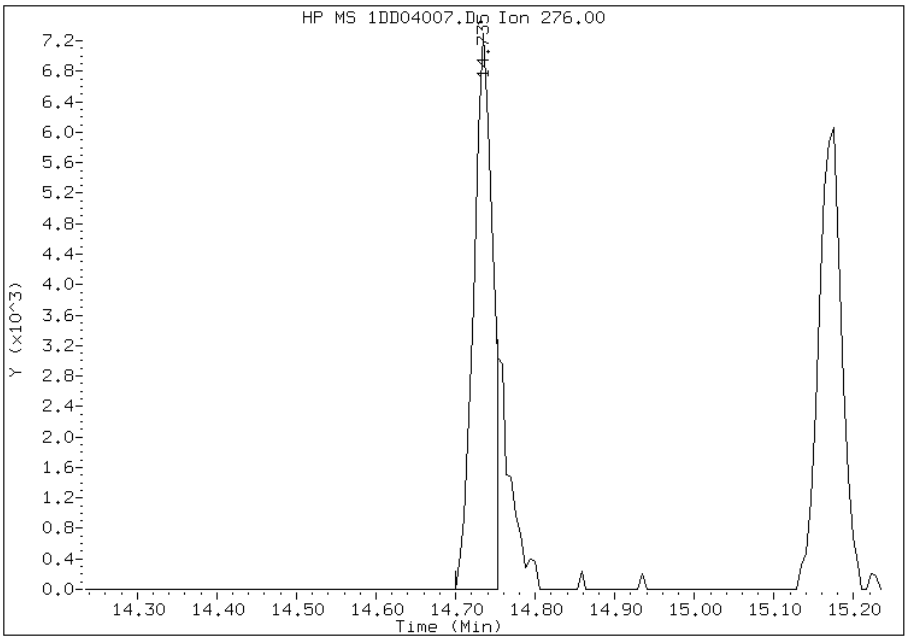
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

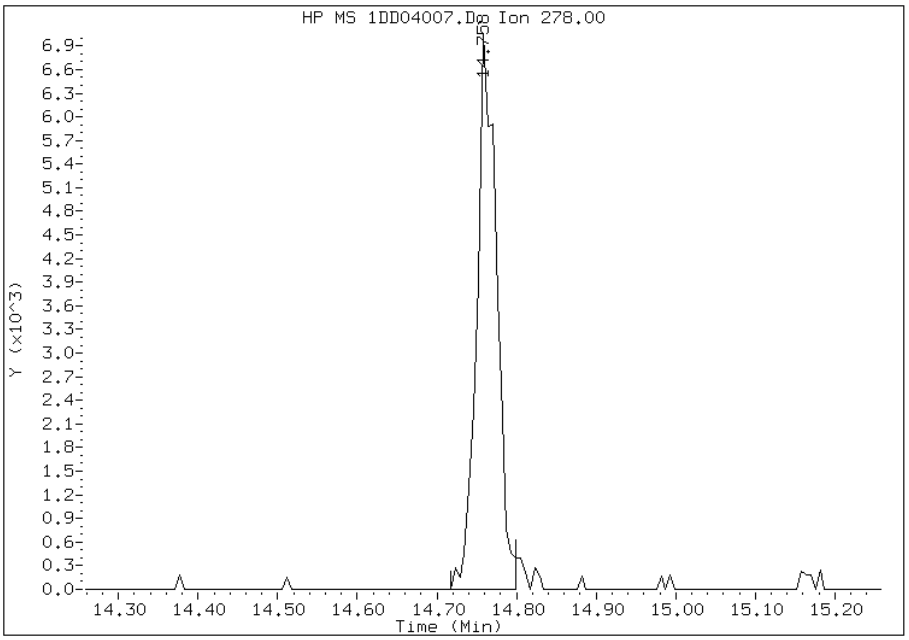
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



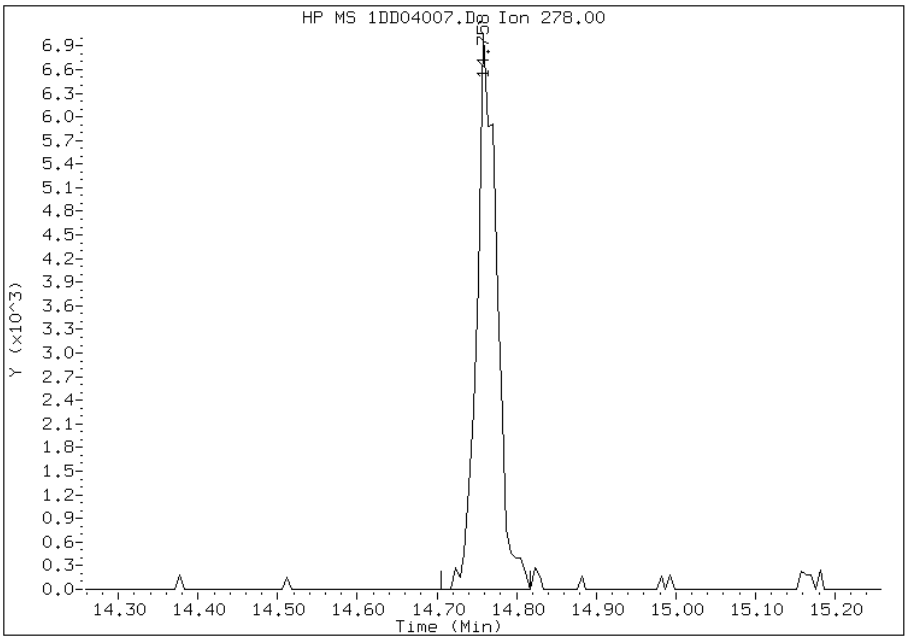
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04008.D

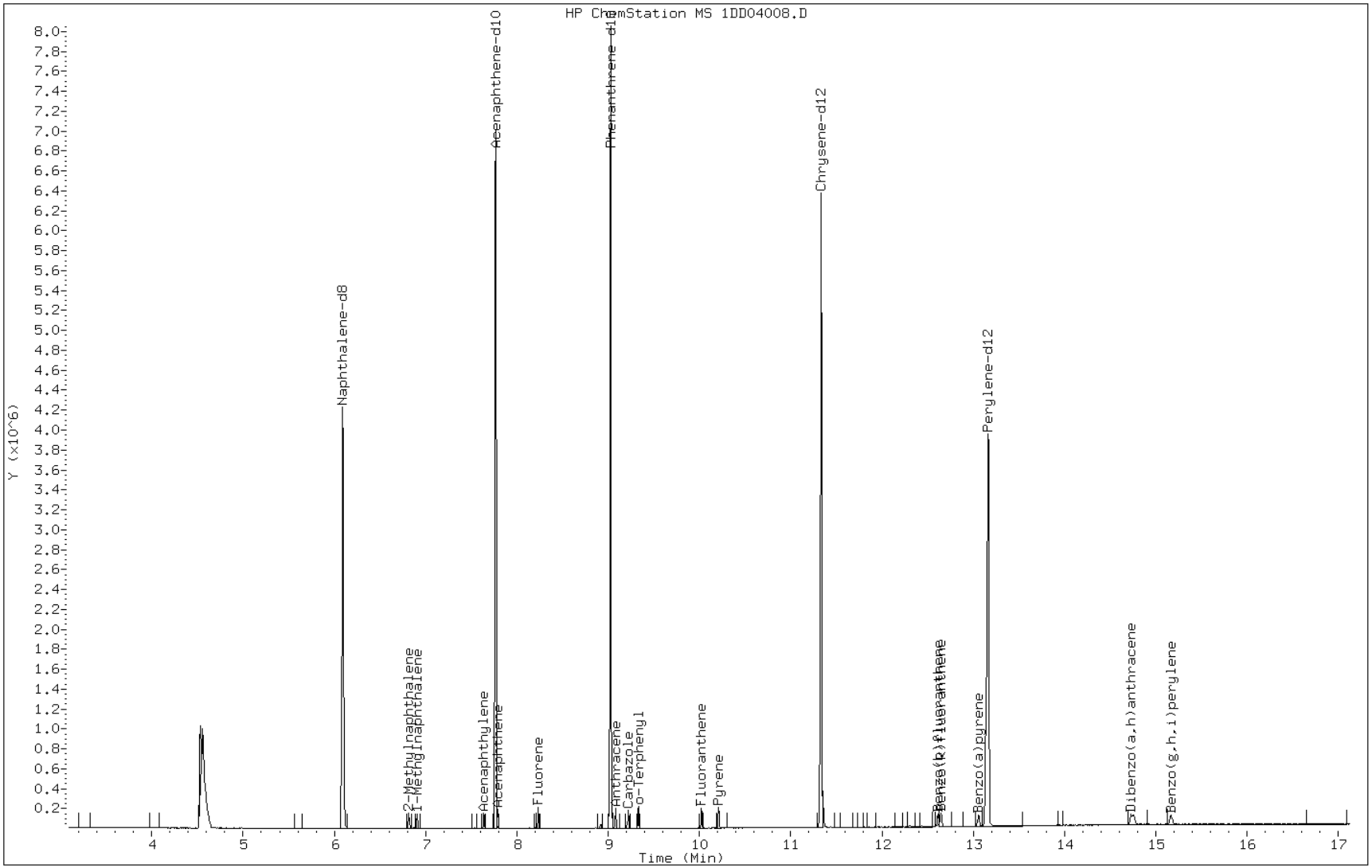
Date: 04-APR-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531398

Operator: SCC



Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

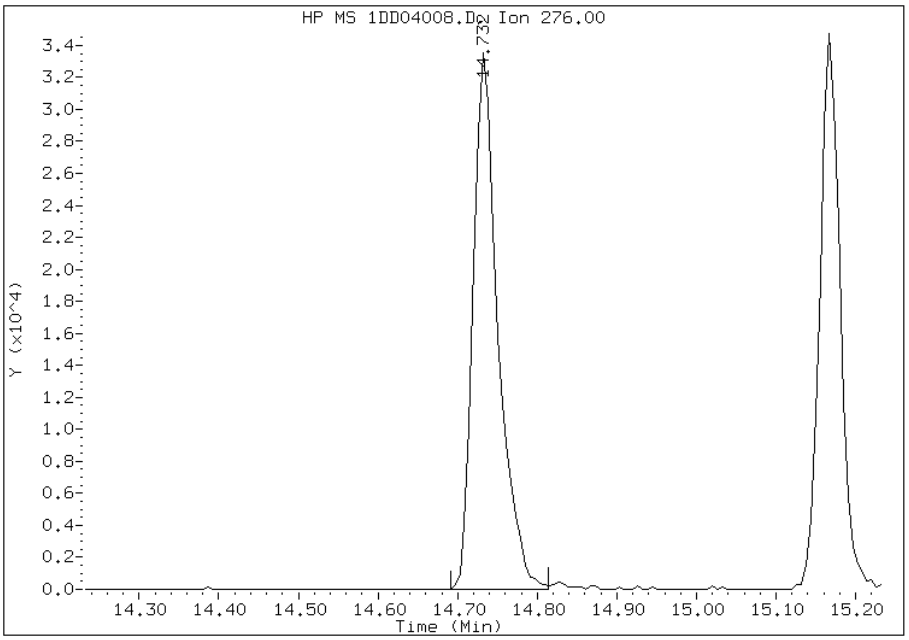
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



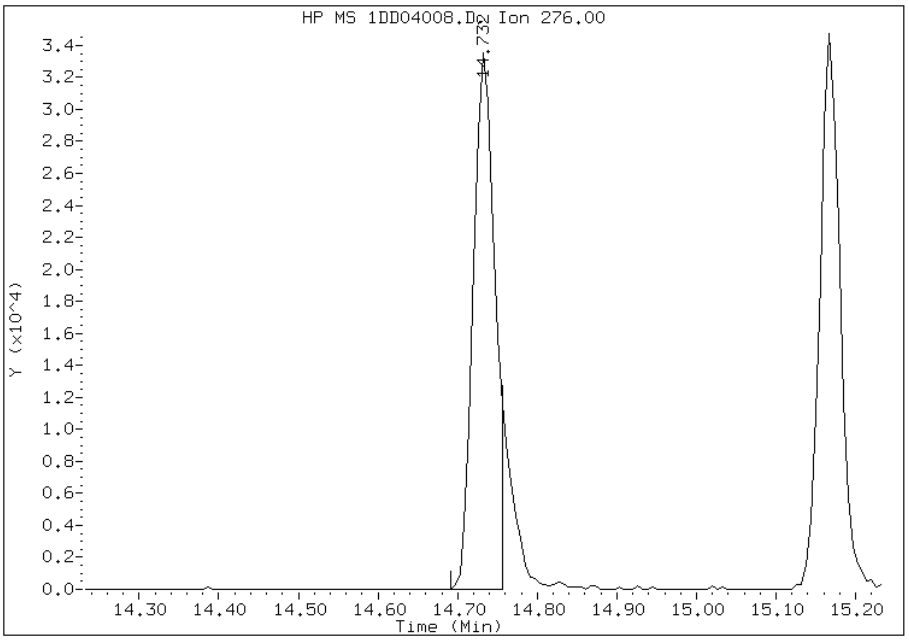
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

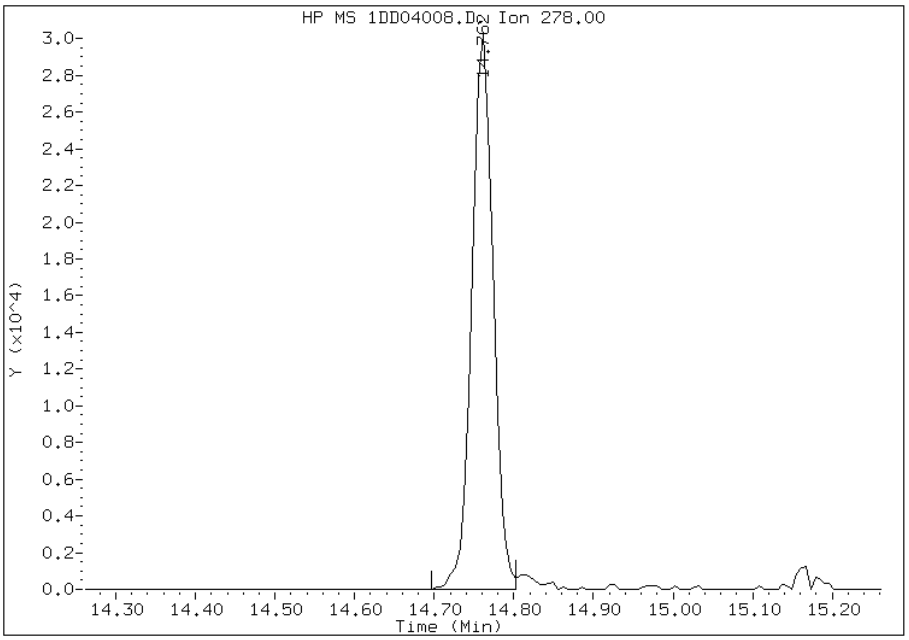
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



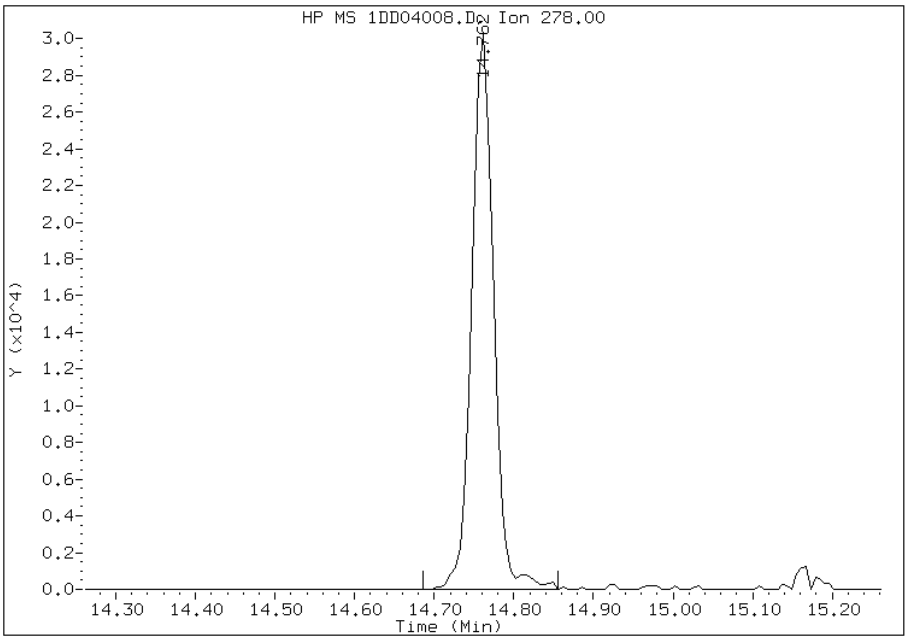
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
* 6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
$ 13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

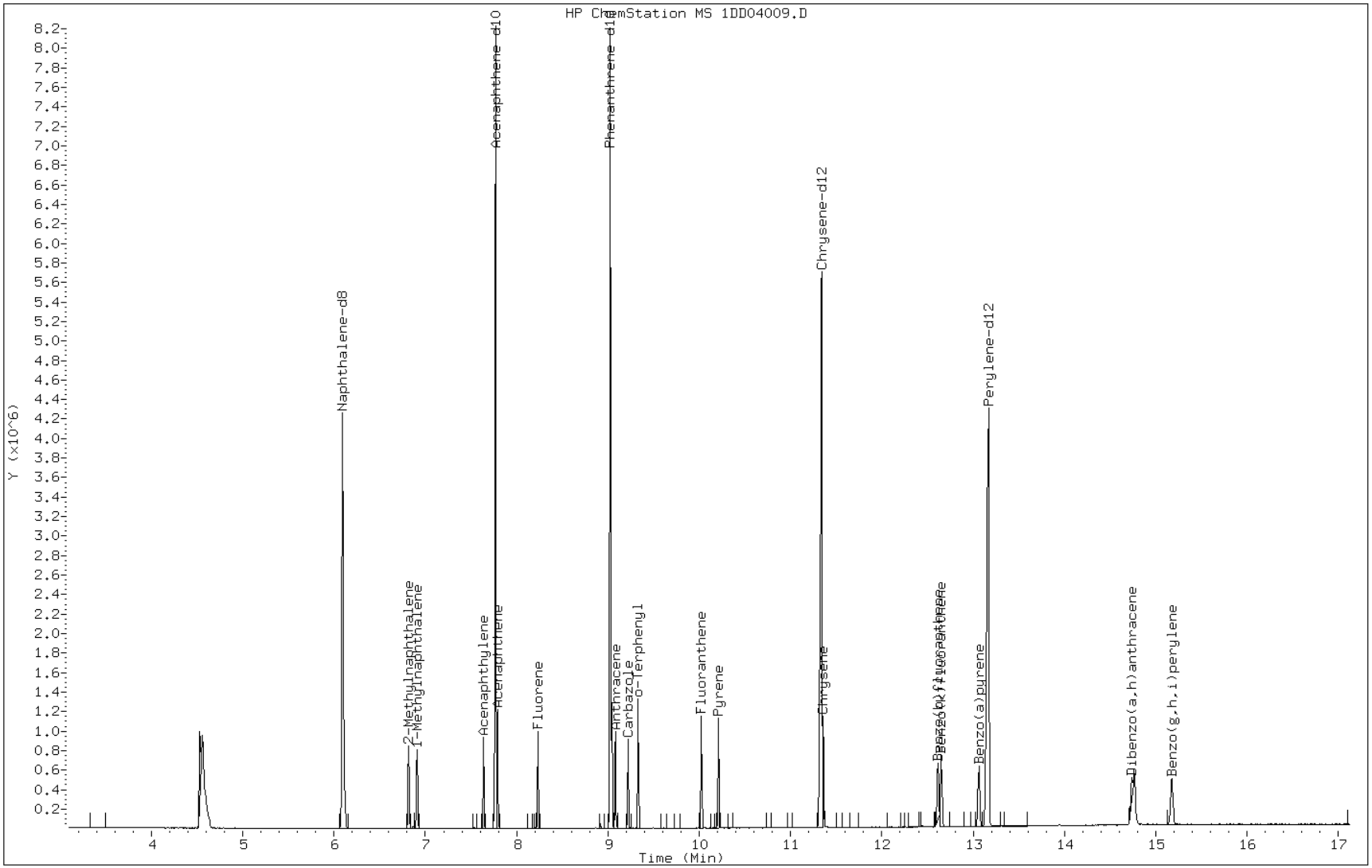
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

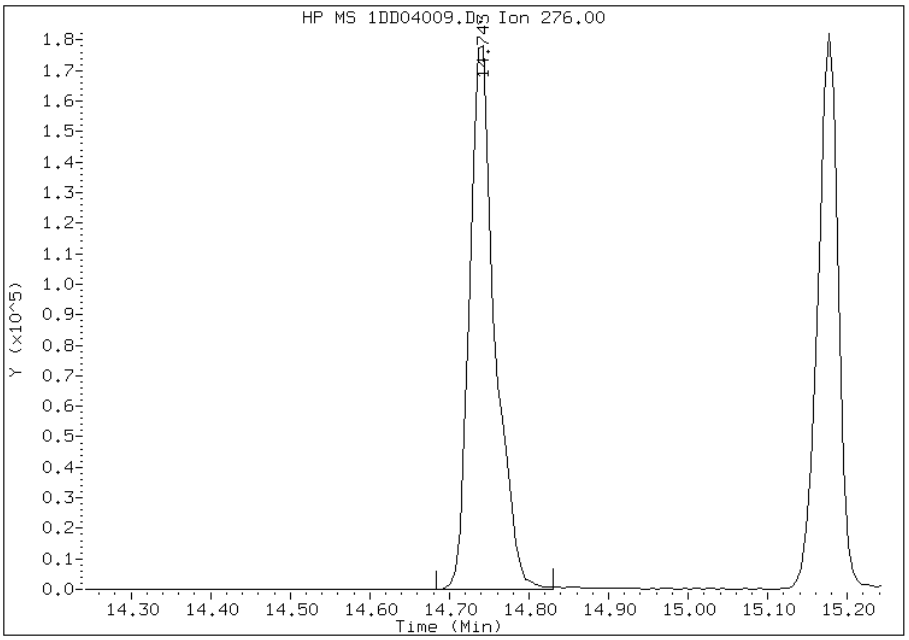
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



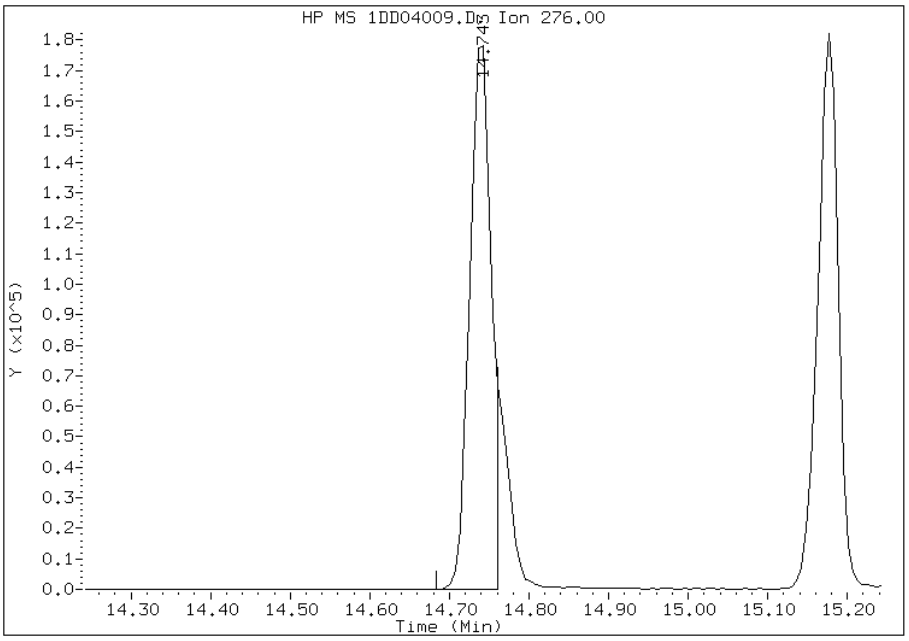
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
* 6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
$ 13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DD04010.D

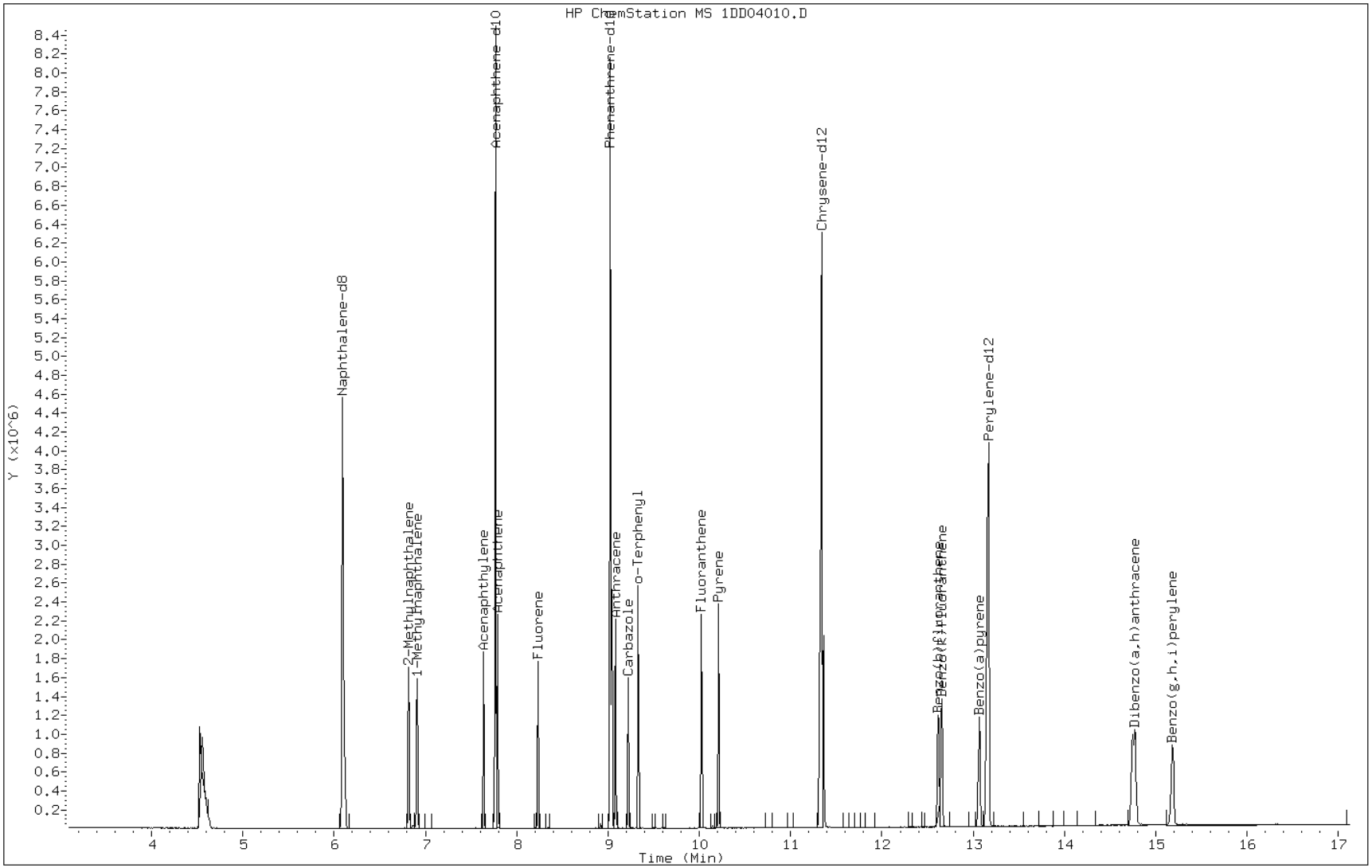
Date: 04-APR-2013 14:57

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1531400

Operator: SCC



Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

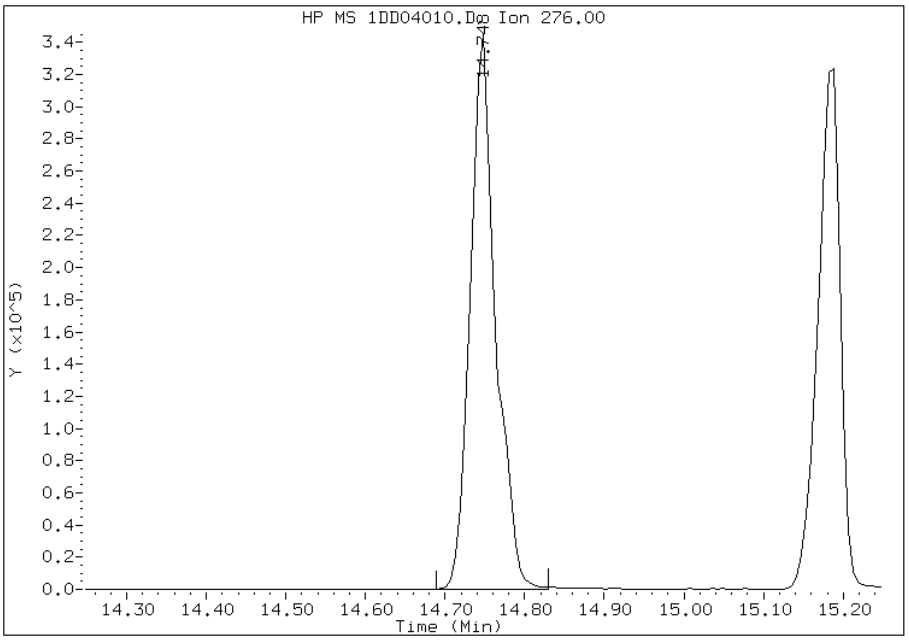
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



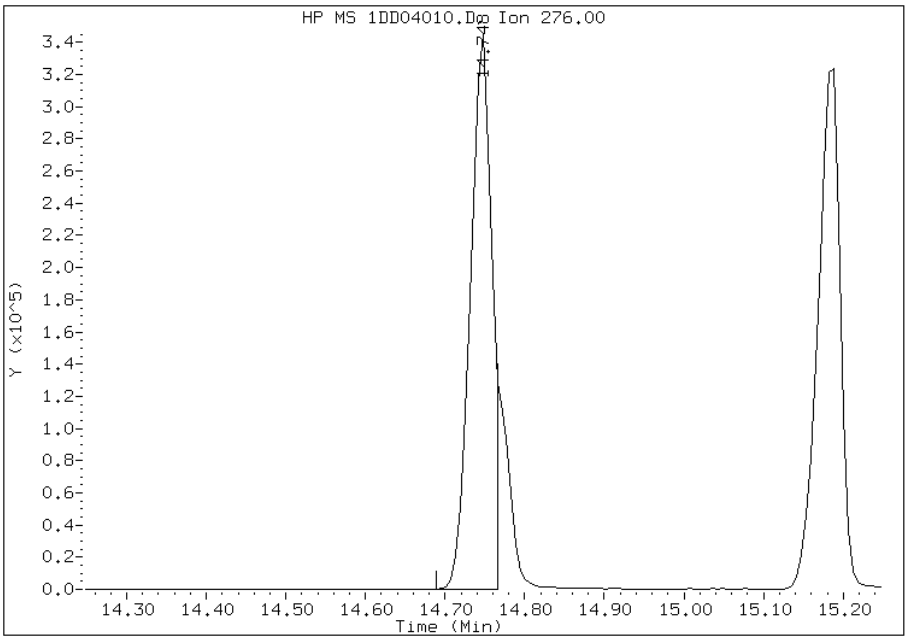
Manual Integration Results

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 Inst ID: BSMSD.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS 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

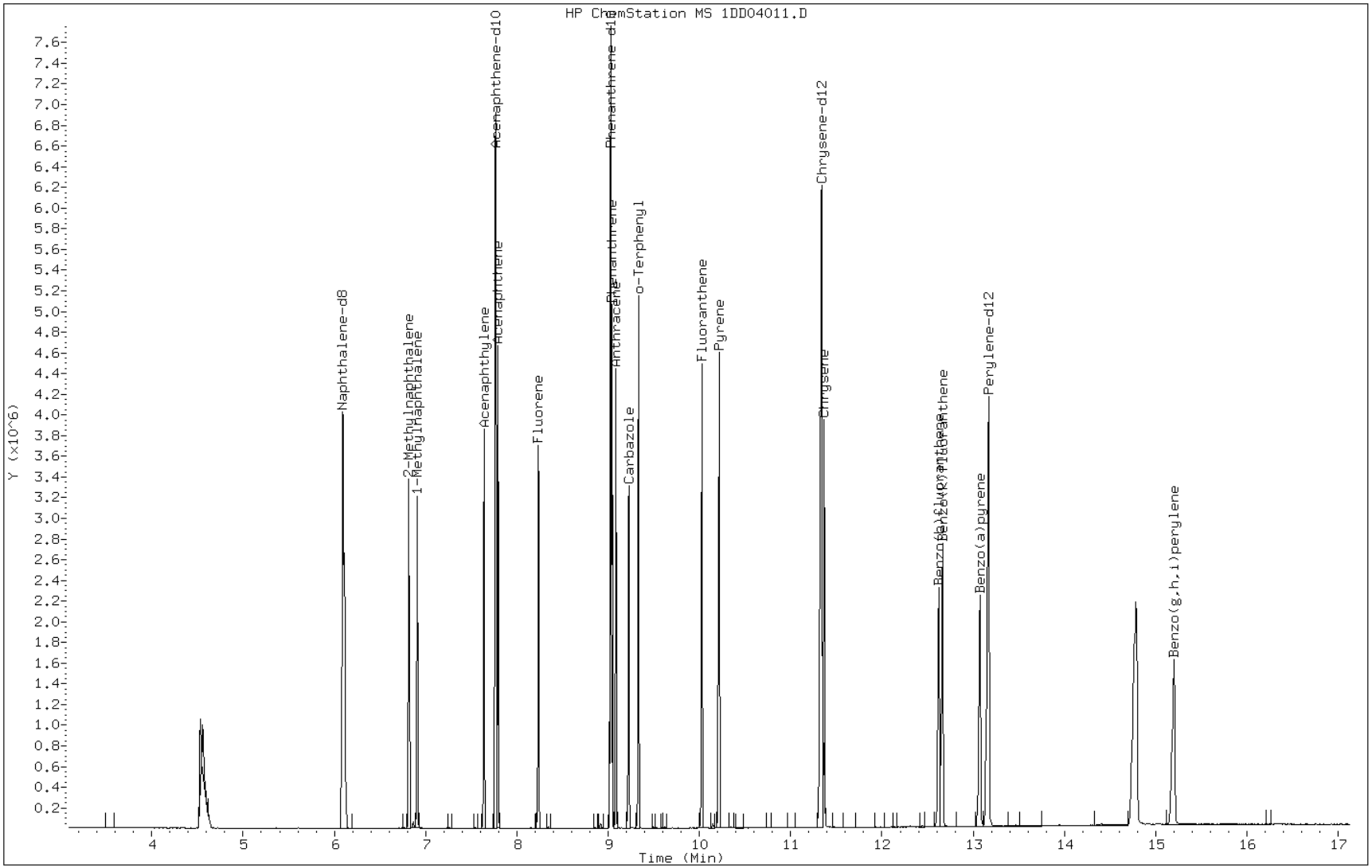
M - Compound response manually integrated.

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

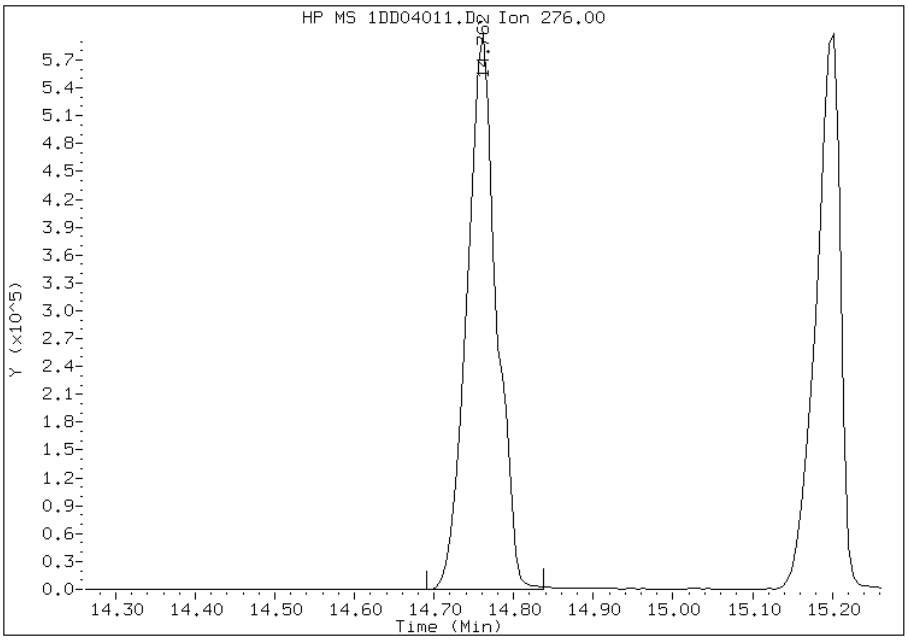
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



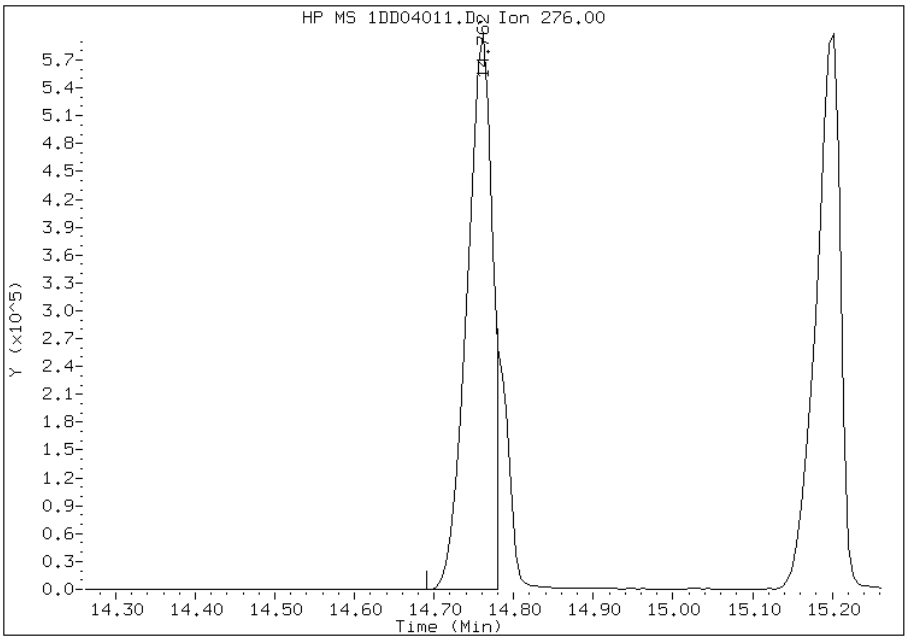
Manual Integration Results

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)	AMOUNTS 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

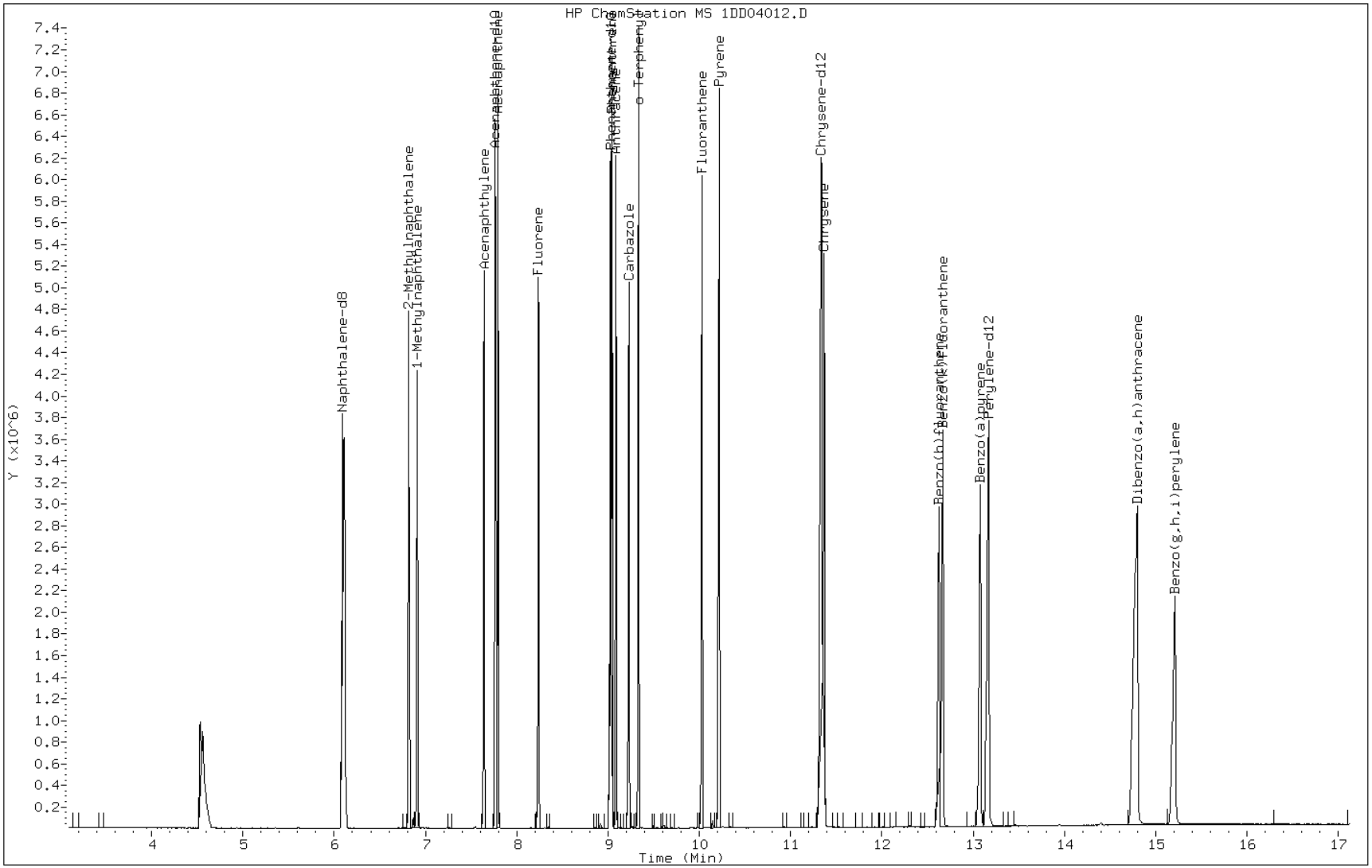
M - Compound response manually integrated.

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

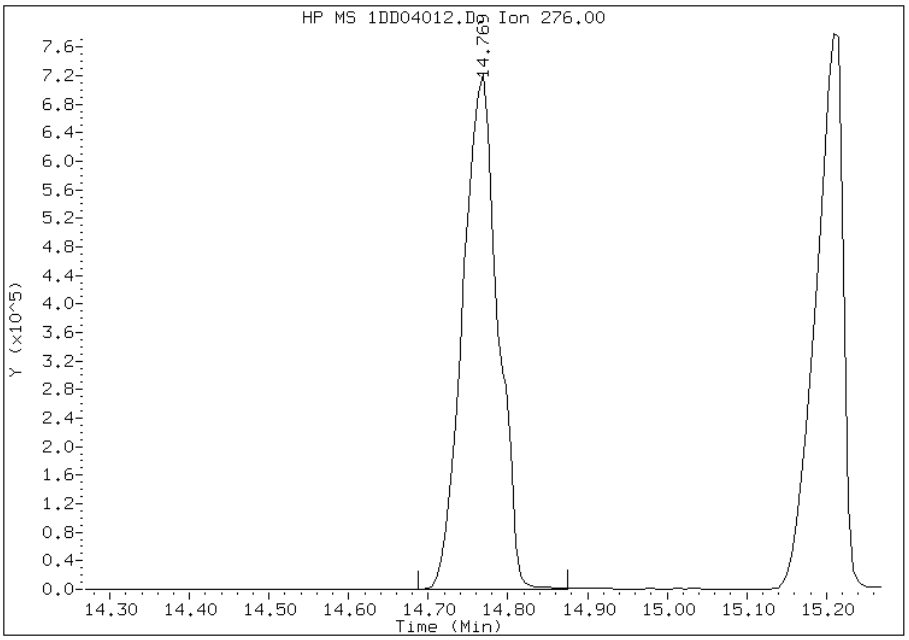
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



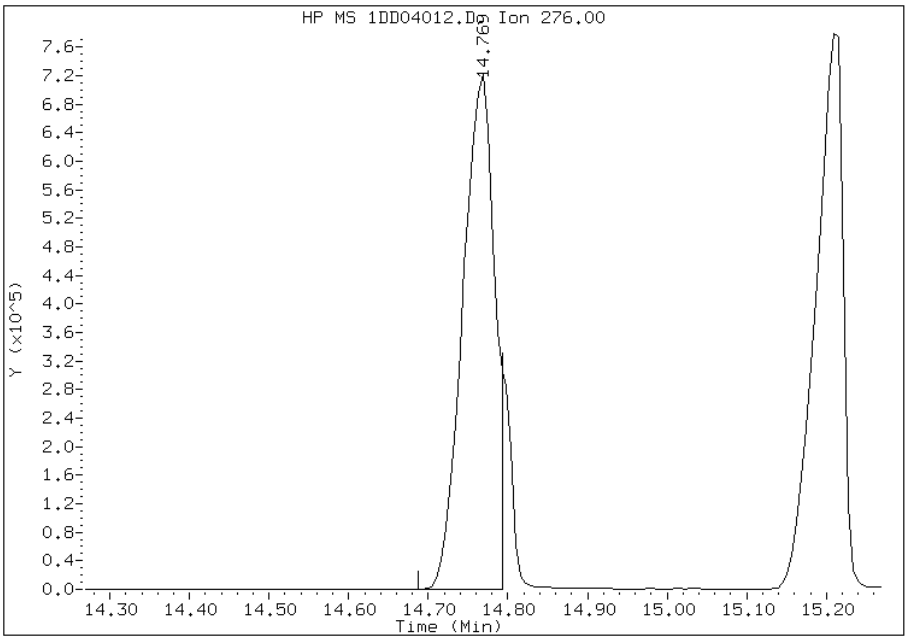
Manual Integration Results

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

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS 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

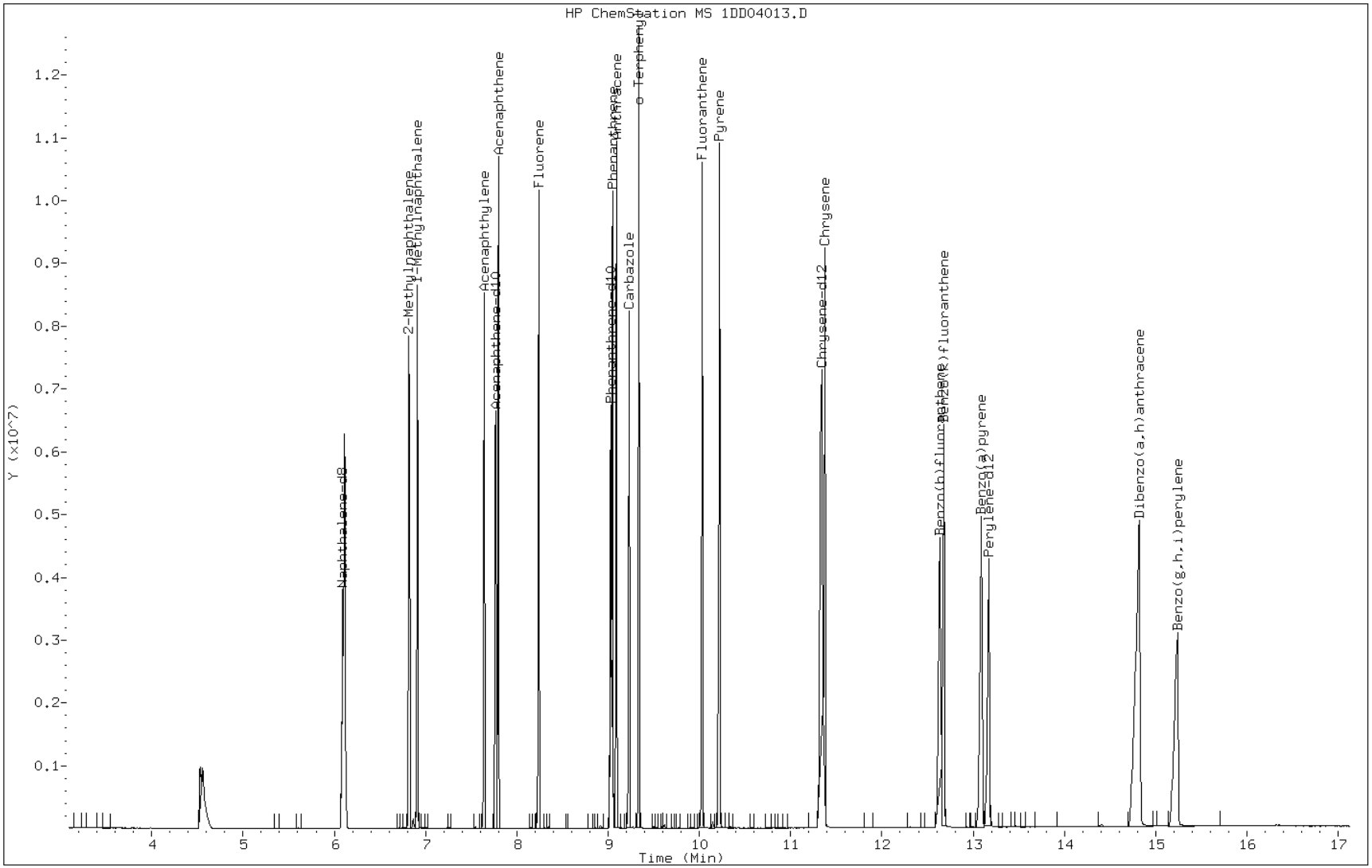
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

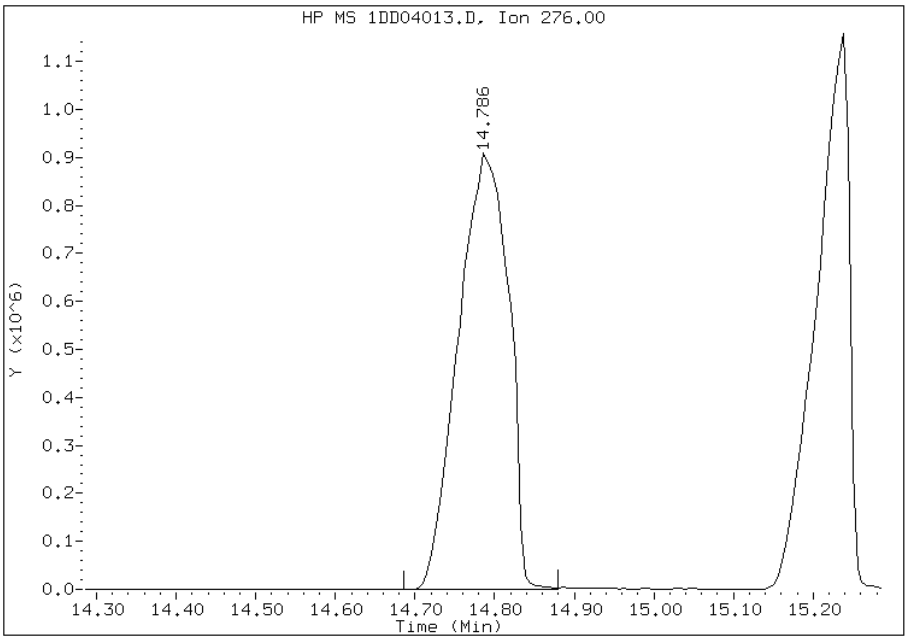
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



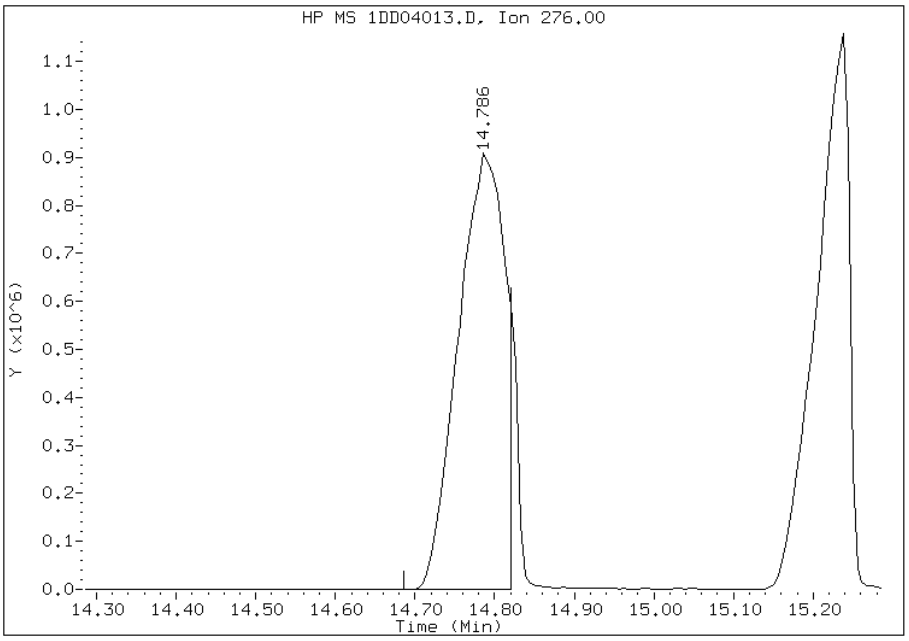
Manual Integration Results

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.: 680-89513-1

SDG No.: 68089513-1

Lab Sample ID: ICV 660-136792/15 Calibration Date: 04/24/2013 16:06

Instrument ID: BSMC5973 Calib Start Date: 04/24/2013 13:57

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/24/2013 15:47

Lab File ID: 1CD24014.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Qua	1.098	0.9939	0.0000	18500	20000	-7.6	35.0
2-Methylnaphthalene	Qua	0.6360	0.6687	0.0000	19000	20000	-4.8	35.0
1-Methylnaphthalene	Qua	0.7017	0.6644	0.0000	20100	20000	0.6	35.0
Acenaphthylene	Qua	2.140	1.745	0.0000	17300	20000	-13.5	35.0
Acenaphthene	Lin	1.041	1.047	0.0000	18100	20000	-9.5	35.0
Fluorene	Lin	1.213	1.264	0.0000	18400	20000	-8.0	35.0
Phenanthrene	Ave	1.095	1.088	0.0000	19900	20000	-0.7	35.0
Anthracene	Lin	1.235	1.214	0.0000	20400	20000	1.9	35.0
Carbazole	Ave	1.101	1.068	0.0000	19400	20000	-3.0	35.0
Fluoranthene	Lin	1.232	1.320	0.0000	19900	20000	-0.3	35.0
Pyrene	Ave	1.181	1.084	0.0000	18400	20000	-8.2	35.0
Benzo[a]anthracene	Qua	1.351	1.168	0.0000	21500	20000	7.5	35.0
Chrysene	Ave	1.142	1.018	0.0000	17800	20000	-10.9	35.0
Benzo[b]fluoranthene	Ave	1.106	1.167	0.0000	21100	20000	5.5	35.0
Benzo[k]fluoranthene	Ave	1.076	1.015	0.0000	18900	20000	-5.7	35.0
Benzo[a]pyrene	Lin	0.9394	0.9293	0.0000	17200	20000	-14.2	35.0
Indeno[1,2,3-cd]pyrene	Lin	0.9578	0.9419	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9699	1.013	0.0000	20900	20000	4.4	35.0
Benzo[g,h,i]perylene	Ave	1.010	0.9900	0.0000	19600	20000	-2.0	35.0
o-Terphenyl	Ave	0.5808	0.5769	0.0000	19900	20000	-0.7	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24014.D
Lab Smp Id: ICV-1448440
Inj Date : 24-APR-2013 16:06
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	178260	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	107629	40.0000	
* 10 Phenanthrene-d10	188	5.662	5.663	(1.000)	194163	40.0000	
$ 14 o-Terphenyl	230	5.909	5.910	(1.044)	56007	19.8674	19.8674
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	234167	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	247483	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	88589	18.4847	18.4846
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	59598	19.0345	19.0344
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	59219	20.1145	20.1145
5 Acenaphthylene	152	4.633	4.634	(0.981)	93910	17.3093	17.3093
7 Acenaphthene	154	4.739	4.740	(1.004)	56326	18.0986	18.0986
9 Fluorene	166	5.057	5.057	(1.071)	68048	18.4020	18.4019
11 Phenanthrene	178	5.674	5.675	(1.002)	105627	19.8687	19.8687
12 Anthracene	178	5.709	5.710	(1.008)	117820	20.3857	20.3856
13 Carbazole	167	5.821	5.822	(1.028)	103644	19.3960	19.3960
15 Fluoranthene	202	6.504	6.504	(1.149)	128171	19.9448	19.9447
16 Pyrene	202	6.668	6.675	(0.879)	126931	18.3539	18.3538

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	136717	21.4934	21.4933
19 Chrysene	228	7.609	7.610	(1.003)	119178	17.8230	17.8229
20 Benzo(b)fluoranthene	252	8.403	8.410	(0.962)	144465	21.1064	21.1063
21 Benzo(k)fluoranthene	252	8.421	8.428	(0.964)	125583	18.8568	18.8568
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	114991	17.1505	17.1504
24 Indeno(1,2,3-cd)pyrene	276	9.821	9.833	(1.125)	116552	17.5572	17.5571(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	125342	20.8864	20.8864
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	122506	19.6045	19.6045

QC Flag Legend

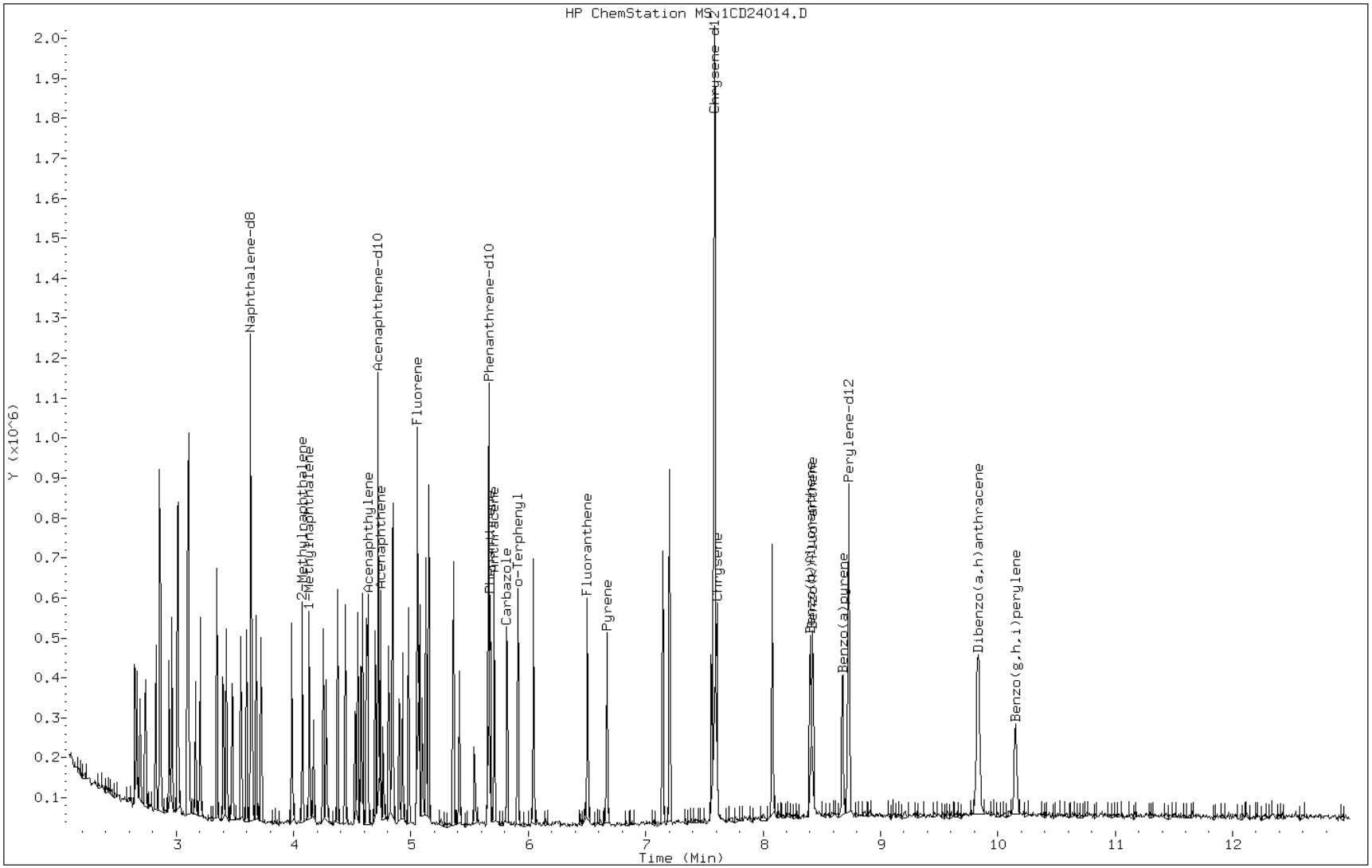
M - Compound response manually integrated.

Data File: 1CD24014.D

Date: 24-APR-2013 16:06

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CD24014.D
Inj. Date and Time: 24-APR-2013 16:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/24/2013

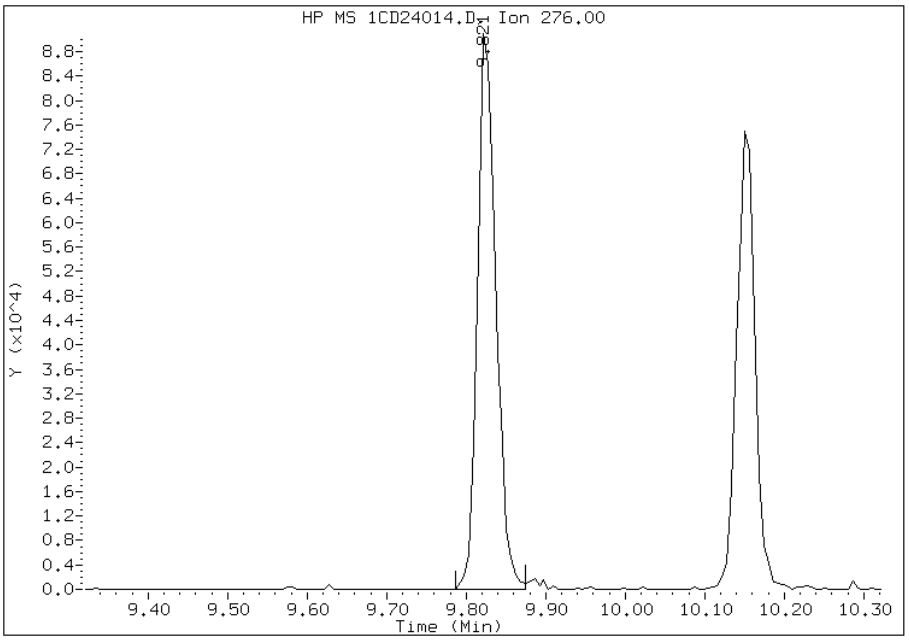
Processing Integration Results

RT: 9.82

Response: 145625

Amount: 22

Conc: 22



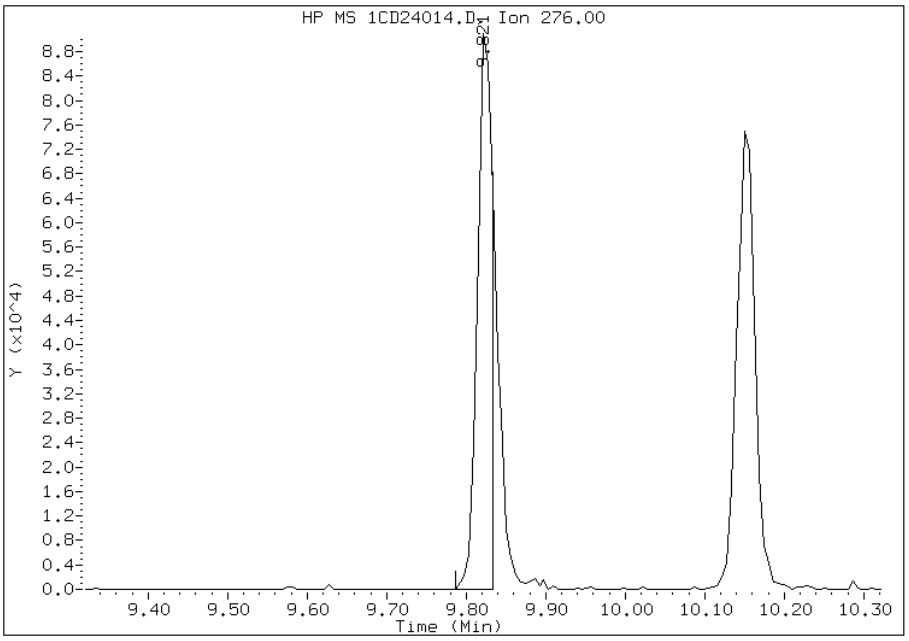
Manual Integration Results

RT: 9.82

Response: 116552

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 24-Apr-2013 16:35
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000	
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000	
$ 13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566	16
* 17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000	
* 22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000	
2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229	18
3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630	18
4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992	19
5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019	17
7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100	16
8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572	18
10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322	16
11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207	17
12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242	14(M)
14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287	18
15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

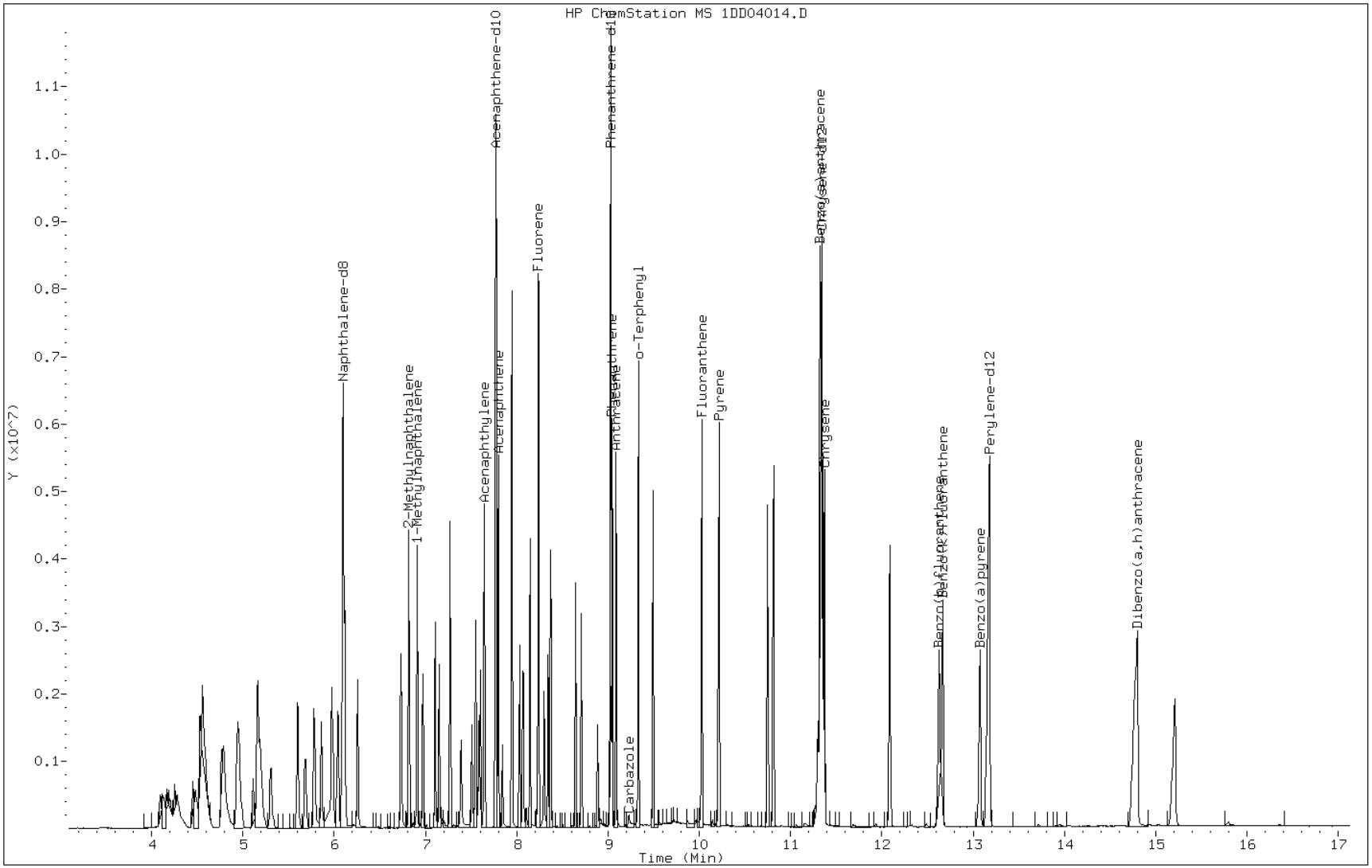
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

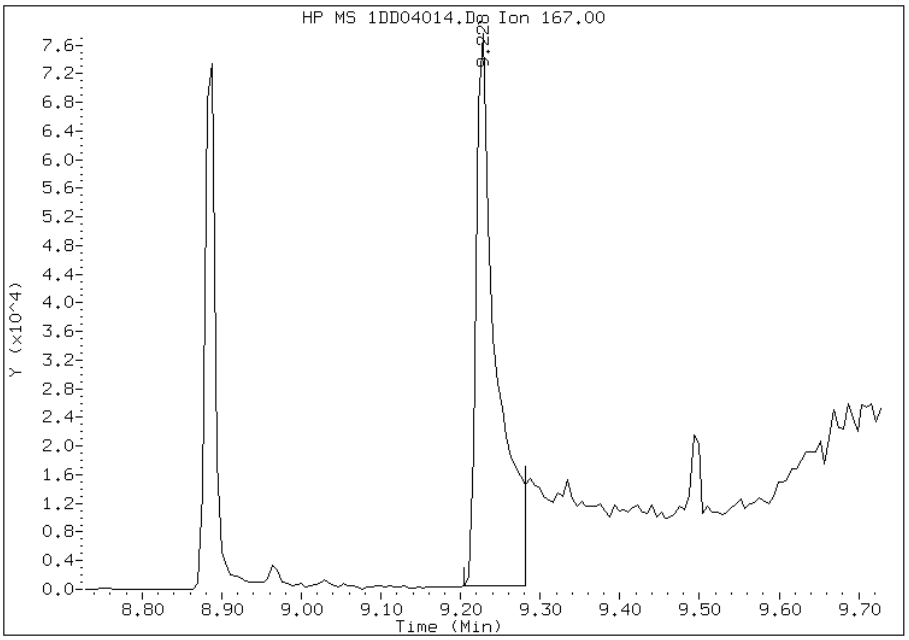
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



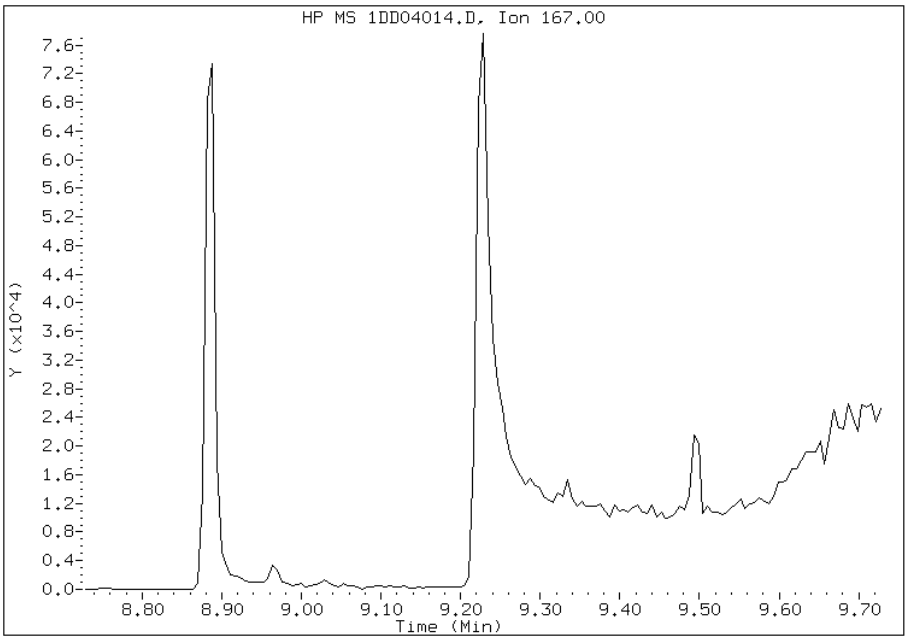
Manual Integration Results

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

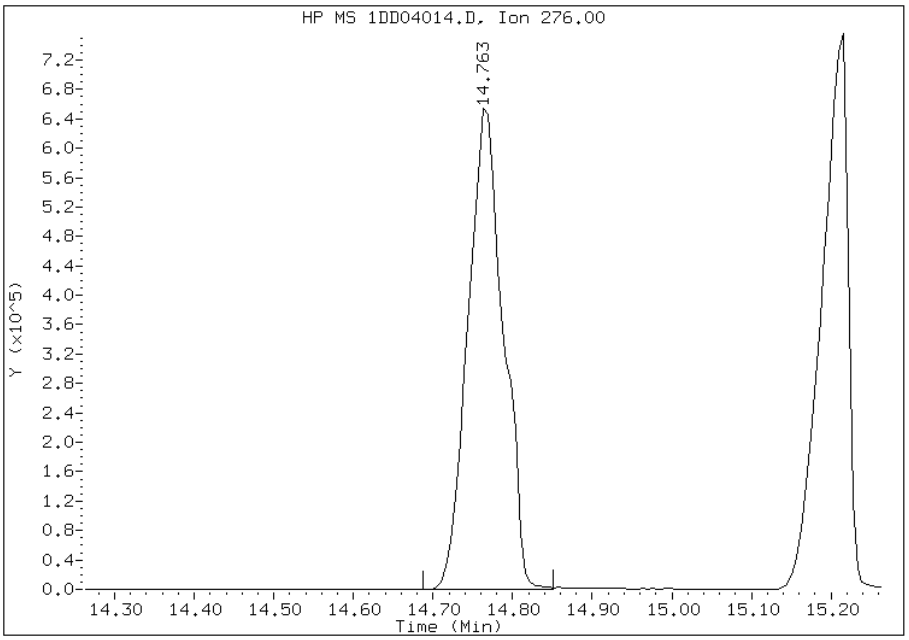
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



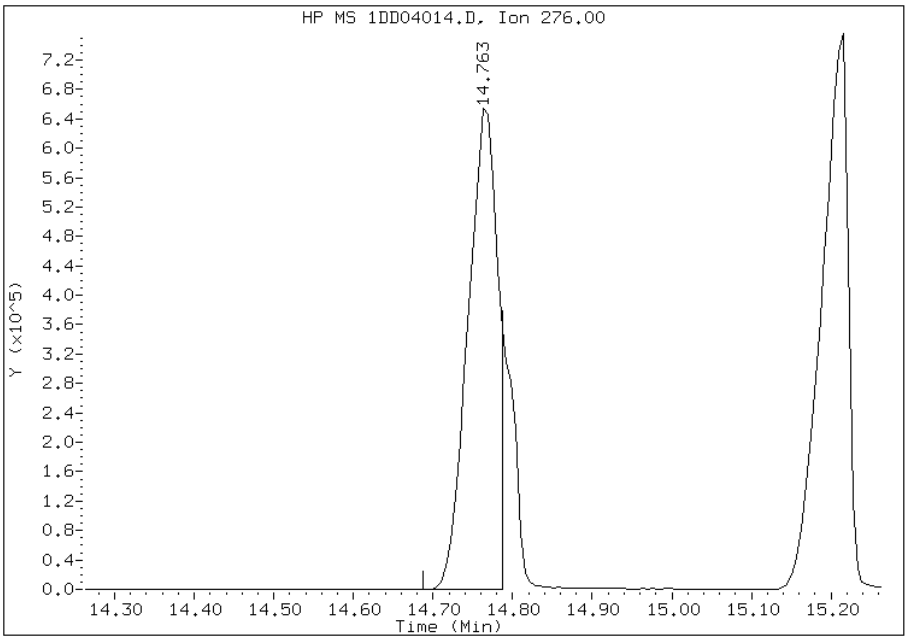
Manual Integration Results

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.: 680-89513-1

SDG No.: 68089513-1

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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS 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

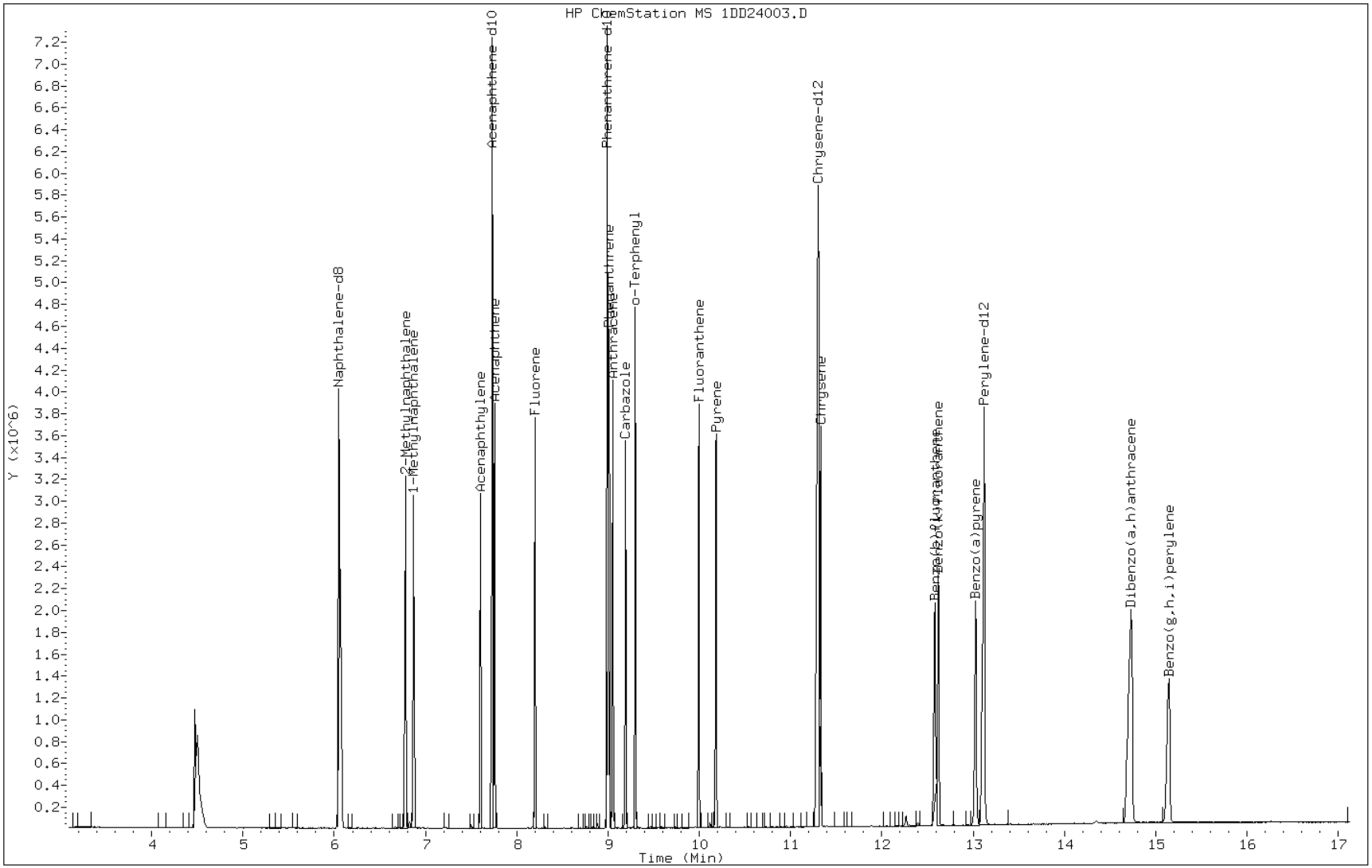
Date: 24-APR-2013 12:46

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

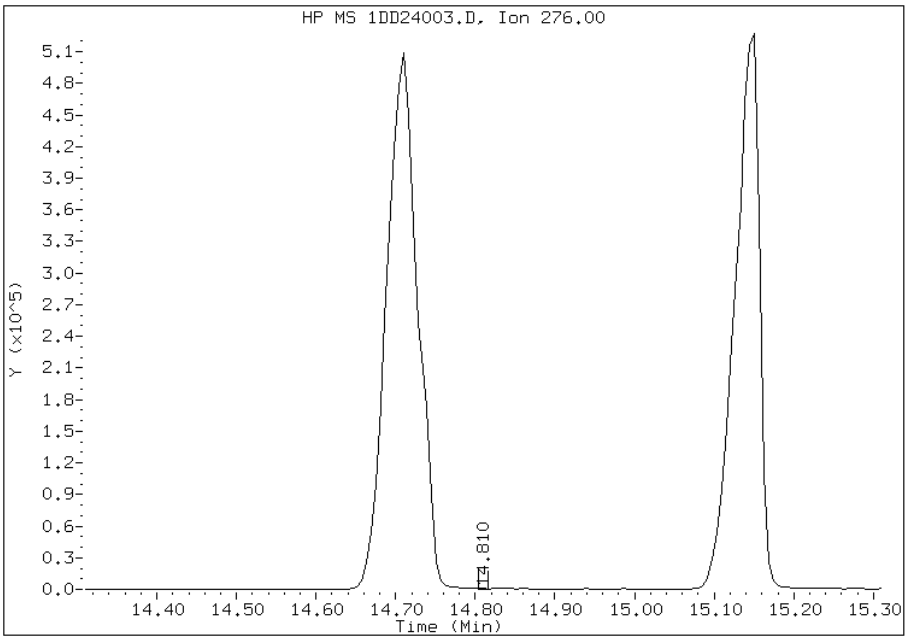
Processing Integration Results

RT: 14.81

Response: 268

Amount: 0

Conc: 0



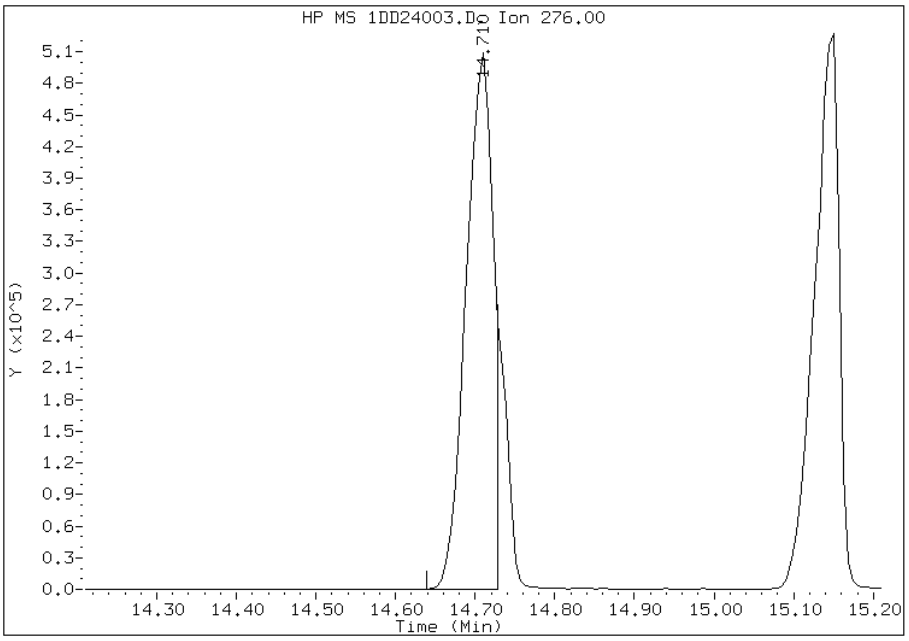
Manual Integration Results

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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Lab Sample ID: CCVIS 660-136899/3 Calibration Date: 04/25/2013 12:21

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: 1DD25003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9883	0.0000	19900	20000	-0.6	20.0
2-Methylnaphthalene	Ave	0.6418	0.6574	0.0000	20500	20000	2.4	20.0
1-Methylnaphthalene	Ave	0.6061	0.6191	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.693	1.686	0.0000	19900	20000	-0.4	20.0
Acenaphthene	Ave	1.045	1.020	0.0000	19500	20000	-2.4	20.0
Fluorene	Ave	1.238	1.222	0.0000	19700	20000	-1.3	20.0
Phenanthrene	Ave	1.102	1.066	0.0000	19300	20000	-3.3	20.0
Anthracene	Ave	1.094	1.073	0.0000	19600	20000	-1.9	20.0
Carbazole	Ave	0.9646	0.9154	0.0000	19000	20000	-5.1	20.0
Fluoranthene	Ave	1.134	1.135	0.0000	20000	20000	0.1	20.0
Pyrene	Ave	1.201	1.150	0.0000	19100	20000	-4.3	20.0
Benzo[a]anthracene	Ave	1.156	1.041	0.0000	18000	20000	-10.0	20.0
Chrysene	Ave	1.084	1.030	0.0000	19000	20000	-5.1	20.0
Benzo[b]fluoranthene	Ave	0.999	0.997	0.0000	20000	20000	-0.2	20.0
Benzo[k]fluoranthene	Ave	1.053	1.014	0.0000	19300	20000	-3.7	20.0
Benzo[a]pyrene	Ave	1.004	0.998	0.0000	19900	20000	-0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	1.103	0.0000	20600	20000	3.0	20.0
Dibenz(a,h)anthracene	Ave	1.008	1.005	0.0000	19900	20000	-0.3	20.0
Benzo[g,h,i]perylene	Ave	1.031	0.995	0.0000	19300	20000	-3.5	20.0
o-Terphenyl	Ave	0.6027	0.6194	0.0000	20600	20000	2.8	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25003.D
Lab Smp Id: CCV-1531401
Inj Date : 25-APR-2013 12:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCV-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.049	6.049	(1.000)	2587448	40.0000	(H)
* 6 Acenaphthene-d10	164	7.729	7.729	(1.000)	1623254	40.0000	(H)
* 9 Phenanthrene-d10	188	8.992	8.992	(1.000)	2764849	40.0000	(H)
$ 13 o-Terphenyl	230	9.298	9.298	(1.034)	856236	20.0000	20(H)
* 17 Chrysene-d12	240	11.307	11.307	(1.000)	2901859	40.0000	(H)
* 22 Perylene-d12	264	13.129	13.129	(1.000)	2857822	40.0000	(H)
2 Naphthalene	128	6.072	6.072	(1.004)	1278561	20.0000	20(H)
3 2-Methylnaphthalene	142	6.777	6.777	(1.120)	850536	20.0000	20(H)
4 1-Methylnaphthalene	142	6.871	6.871	(1.136)	800965	20.0000	20(H)
5 Acenaphthylene	152	7.600	7.600	(0.983)	1368204	20.0000	20(H)
7 Acenaphthene	154	7.759	7.759	(1.004)	827830	20.0000	20
8 Fluorene	166	8.199	8.199	(1.061)	991453	20.0000	20(H)
10 Phenanthrene	178	9.010	9.010	(1.002)	1473269	20.0000	19(H)
11 Anthracene	178	9.051	9.051	(1.007)	1483247	20.0000	20(H)
12 Carbazole	167	9.192	9.192	(1.022)	1265481	20.0000	19(H)
14 Fluoranthene	202	9.997	9.997	(1.112)	1569310	20.0000	20(H)
15 Pyrene	202	10.185	10.185	(0.901)	1668426	20.0000	19(H)
16 Benzo(a)anthracene	228	11.284	11.284	(0.998)	1510238	20.0000	18(H)
18 Chrysene	228	11.331	11.331	(1.002)	1493747	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.582	12.582	(0.958)	1424360	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.623	12.623	(0.962)	1448576	20.0000	19(H)
21 Benzo(a)pyrene	252	13.035	13.035	(0.993)	1426465	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.715	14.715	(1.121)	1575777	20.0000	21(MH)
24 Dibenzo(a,h)anthracene	278	14.744	14.744	(1.123)	1436245	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.156	15.156	(1.154)	1421842	20.0000	19(H)

QC Flag Legend

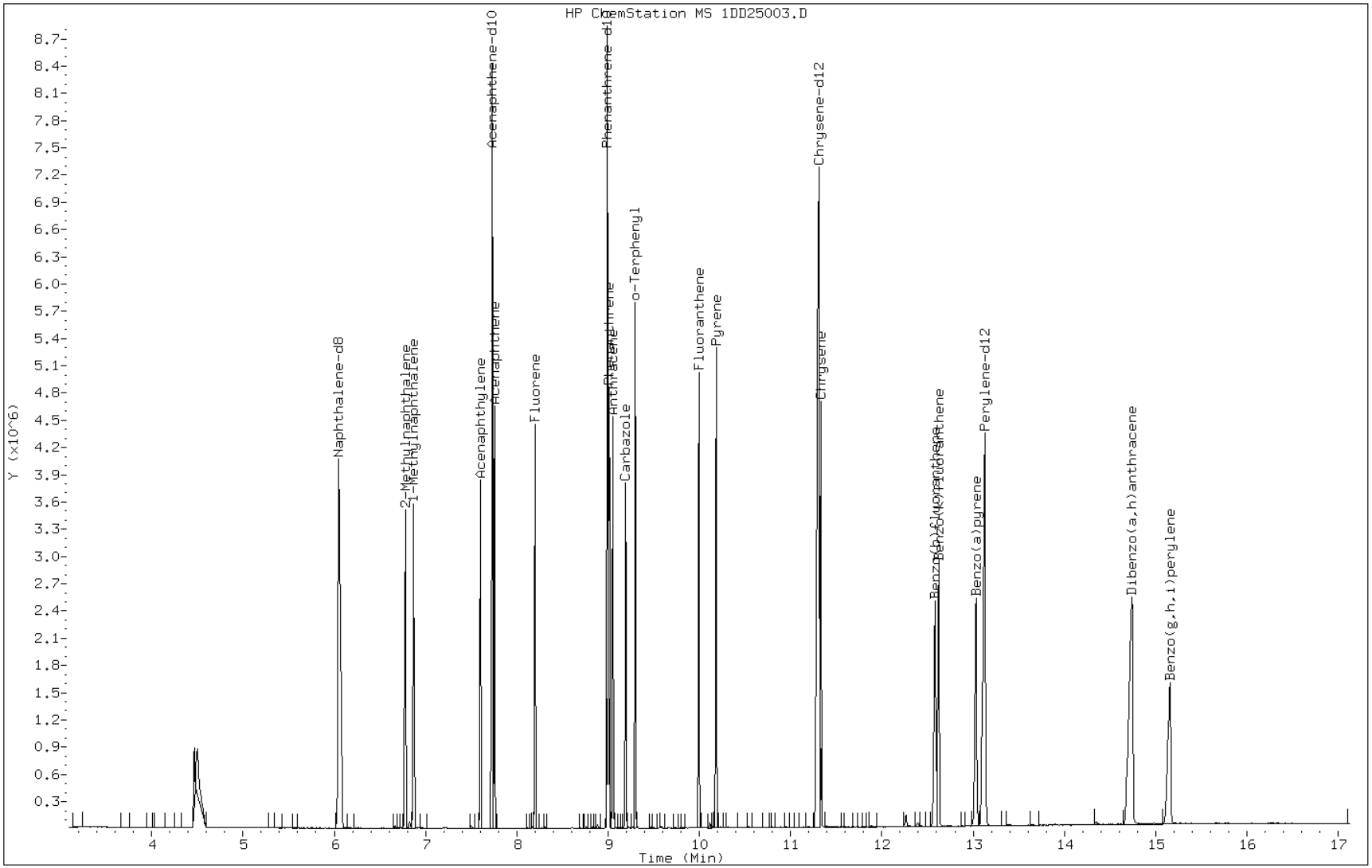
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD25003.D

Date: 25-APR-2013 12:21

Client ID: Instrument: BSMSD.i

Sample Info: CCV-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD25003.D
Inj. Date and Time: 25-APR-2013 12:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

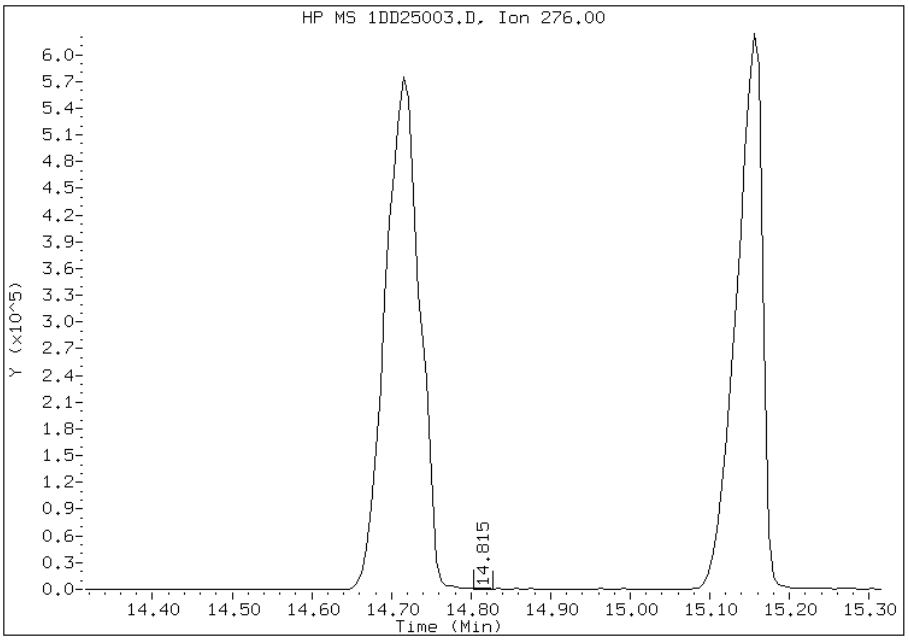
Processing Integration Results

RT: 14.82

Response: 836

Amount: 0

Conc: 0



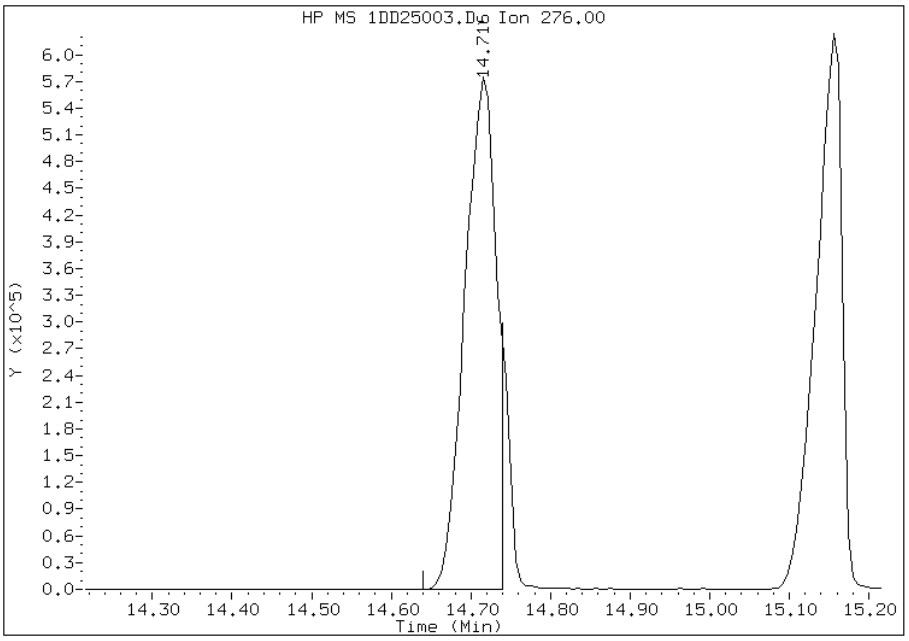
Manual Integration Results

RT: 14.72

Response: 1575777

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 12:44
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 24-APR-2013 13:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.227	7.469	-0.242	198	21949			50.00- 0.00	100.00
7.227	7.469	-0.242	51	15744			10.00- 80.00	71.73
7.227	7.469	-0.242	68	238			0.00- 2.00	1.48
7.227	7.469	-0.242	69	16075			0.00- 0.00	73.24
7.227	7.469	-0.242	70	0	0.0	0.0	0.00- 2.00	0.00
7.227	7.469	-0.242	127	13070			10.00- 80.00	59.55
7.227	7.469	-0.242	197	427			0.00- 2.00	1.95
7.227	7.469	-0.242	442	12881			50.00- 0.00	58.69
7.227	7.469	-0.242	199	1499			5.00- 9.00	6.83
7.227	7.469	-0.242	275	5028			10.00- 60.00	22.91
7.227	7.469	-0.242	365	1608			1.00- 0.00	7.33
7.227	7.469	-0.242	441	2253			0.01- 99.99	88.01
7.227	7.469	-0.242	443	2560			15.00- 24.00	19.87

Data File: 1CD24006.D

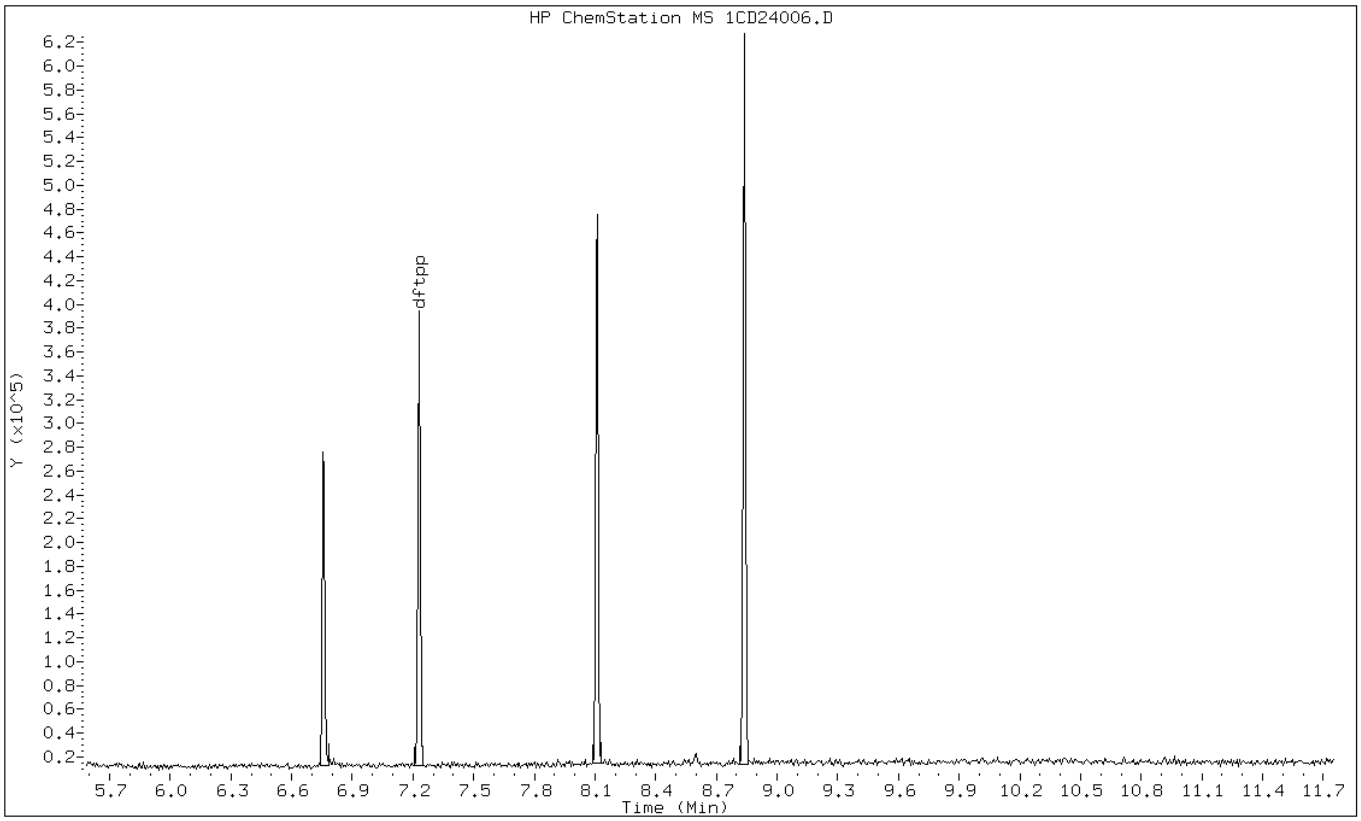
Date: 24-APR-2013 13:40

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1525850

Operator: SCC



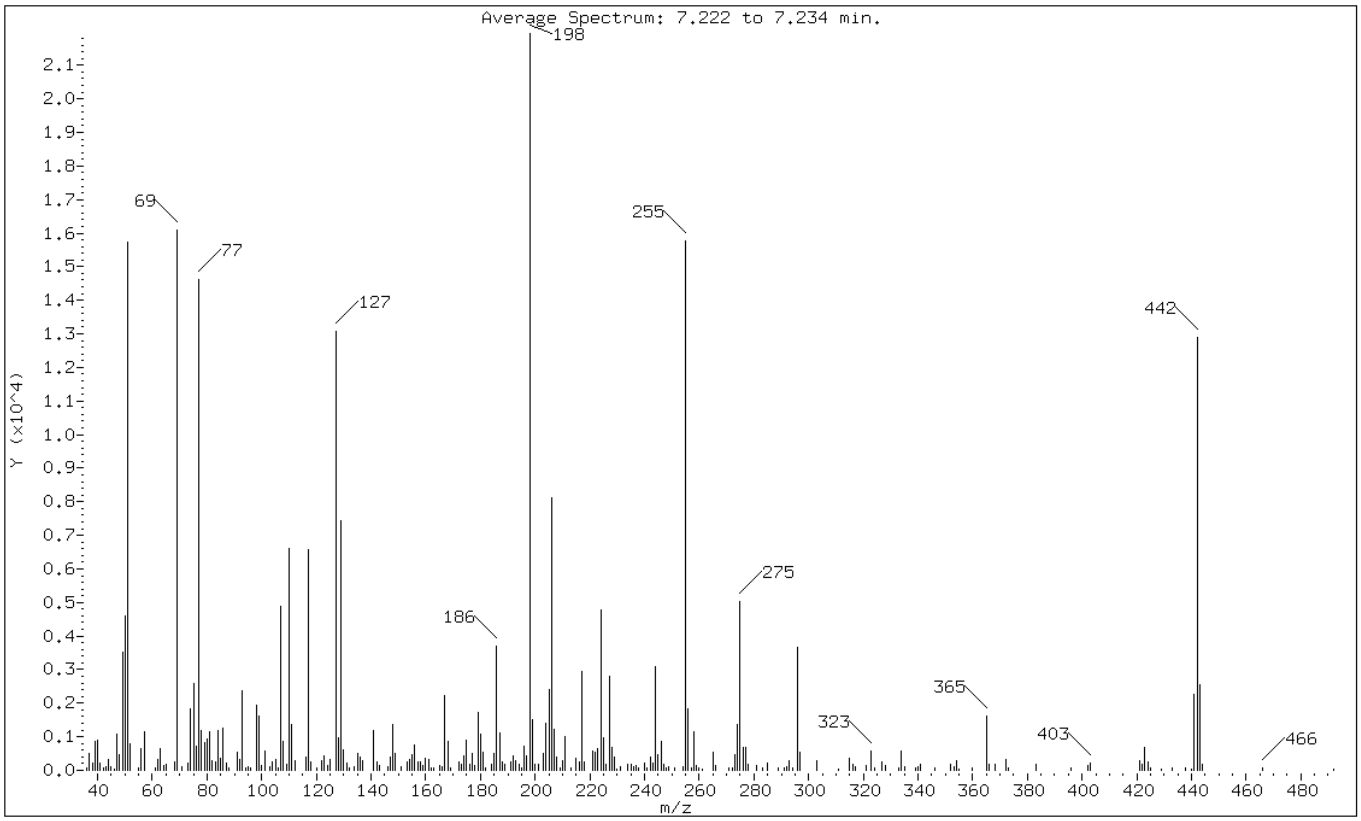
Data File: 1CD24006.D

Date: 24-APR-2013 13:40

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	71.73
68	Less than 2.00% of mass 69	1.08 (1.48)
69	Mass 69 relative abundance	73.24
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	59.55
197	Less than 2.00% of mass 198	1.95
442	Greater than 50.00% of mass 198	58.69
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 60.00% of mass 198	22.91
365	Greater than 1.00% of mass 198	7.33
441	Present, but less than mass 443	10.26
443	15.00 - 24.00% of mass 442	11.66 (19.87)

Data File: 1CD24006.D

Date: 24-APR-2013 13:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24006.D
Spectrum: Average Spectrum: 7.222 to 7.234 min.
Location of Maximum: 198.00
Number of points: 249

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	77	112.00	270	194.00	170	275.00	5028
37.00	490	116.00	378	195.00	79	276.00	699
38.00	221	117.00	6578	196.00	713	277.00	686
39.00	874	118.00	239	197.00	427	278.00	189
40.00	890	120.00	63	198.00	21944	281.00	133
41.00	226	122.00	271	199.00	1499	283.00	81
42.00	58	123.00	420	200.00	166	285.00	200
43.00	101	124.00	127	201.00	188	289.00	59
44.00	310	125.00	328	203.00	502	291.00	86
45.00	121	127.00	13070	204.00	1395	292.00	100
46.00	51	128.00	987	205.00	2409	293.00	280
47.00	1086	129.00	7442	206.00	8127	294.00	71
48.00	471	130.00	604	207.00	1235	296.00	3668
49.00	3519	131.00	221	208.00	392	297.00	547
50.00	4580	132.00	82	209.00	63	303.00	303
51.00	15744	134.00	115	210.00	283	311.00	53
52.00	773	135.00	491	211.00	1011	315.00	371
55.00	70	136.00	397	213.00	59	316.00	169
56.00	645	137.00	276	215.00	355	317.00	118
57.00	1151	141.00	1168	216.00	240	321.00	157
61.00	65	142.00	244	217.00	2938	323.00	559
62.00	332	143.00	148	218.00	254	324.00	69
63.00	655	146.00	102	221.00	570	327.00	259
64.00	140	147.00	411	222.00	525	328.00	140
65.00	187	148.00	1368	223.00	662	333.00	56
68.00	238	149.00	500	224.00	4787	334.00	558
69.00	16075	151.00	111	225.00	960	335.00	116
71.00	93	153.00	252	226.00	170	339.00	60
73.00	202	154.00	307	227.00	2802	340.00	108
74.00	1833	155.00	457	228.00	668	341.00	163
75.00	2594	156.00	764	229.00	411	346.00	56
76.00	732	157.00	263	230.00	50	352.00	166
77.00	14626	158.00	255	231.00	100	353.00	114
78.00	1203	159.00	139	234.00	196	354.00	272
79.00	823	160.00	359	235.00	165	355.00	51
80.00	923	161.00	333	236.00	98	360.00	54
81.00	1151	162.00	71	237.00	130	365.00	1608
82.00	293	163.00	74	238.00	56	366.00	185
83.00	265	165.00	145	240.00	225	368.00	181
84.00	1176	166.00	116	241.00	57	372.00	317

85.00	348	167.00	2233	242.00	403	373.00	59
86.00	1245	168.00	845	243.00	211	383.00	185
87.00	231	169.00	73	244.00	3072	396.00	73
88.00	67	172.00	249	245.00	467	402.00	145
91.00	556	173.00	182	246.00	861	403.00	232
92.00	324	174.00	415	247.00	191	421.00	276
93.00	2363	175.00	881	248.00	58	422.00	167
94.00	54	176.00	171	249.00	100	423.00	682
95.00	98	177.00	489	251.00	55	424.00	251
96.00	70	178.00	138	254.00	113	425.00	63
98.00	1936	179.00	1719	255.00	15751	429.00	52
99.00	1629	180.00	1068	256.00	1834	433.00	88
100.00	138	181.00	521	257.00	63	438.00	70
101.00	578	182.00	60	258.00	1138	440.00	53
103.00	124	184.00	171	259.00	137	441.00	2253
104.00	258	185.00	513	260.00	75	442.00	12881
105.00	319	186.00	3712	261.00	52	443.00	2560
106.00	86	187.00	1123	265.00	538	444.00	195
107.00	4898	188.00	268	266.00	137	466.00	77
108.00	853	189.00	193	271.00	66	492.00	50
109.00	187	191.00	238	272.00	54		
110.00	6596	192.00	442	273.00	478		
111.00	1368	193.00	299	274.00	1355		

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (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

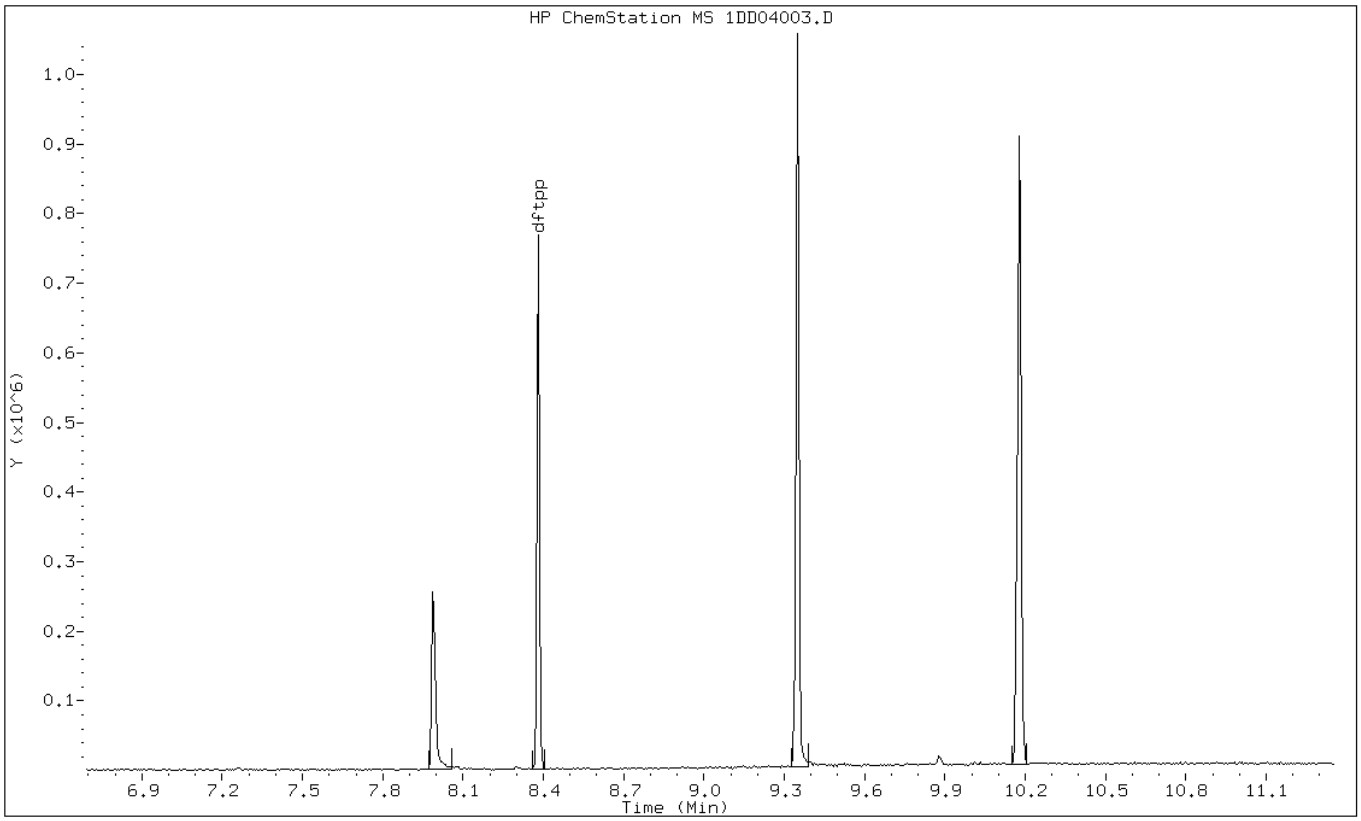
Date: 04-APR-2013 12:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



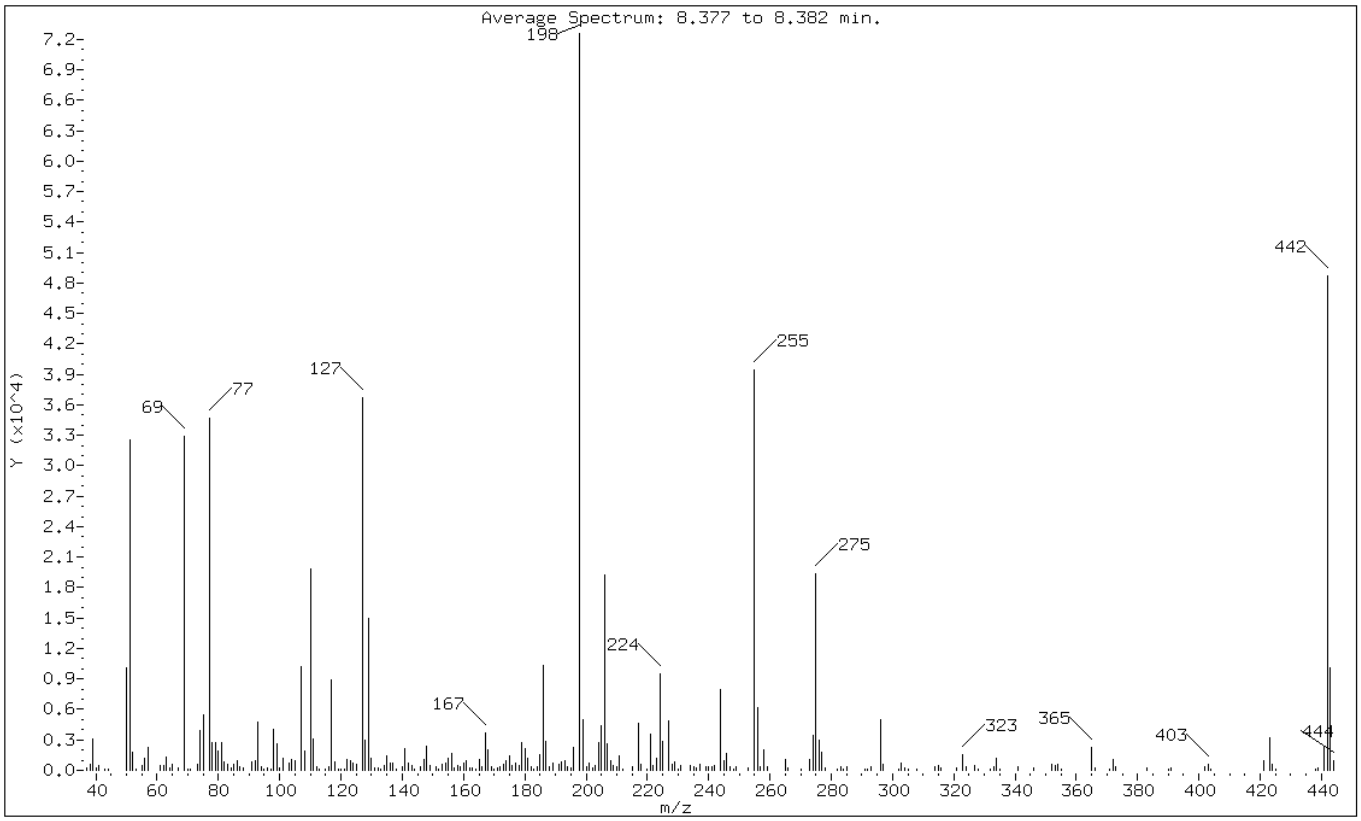
Data File: 1DD04003.D

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\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

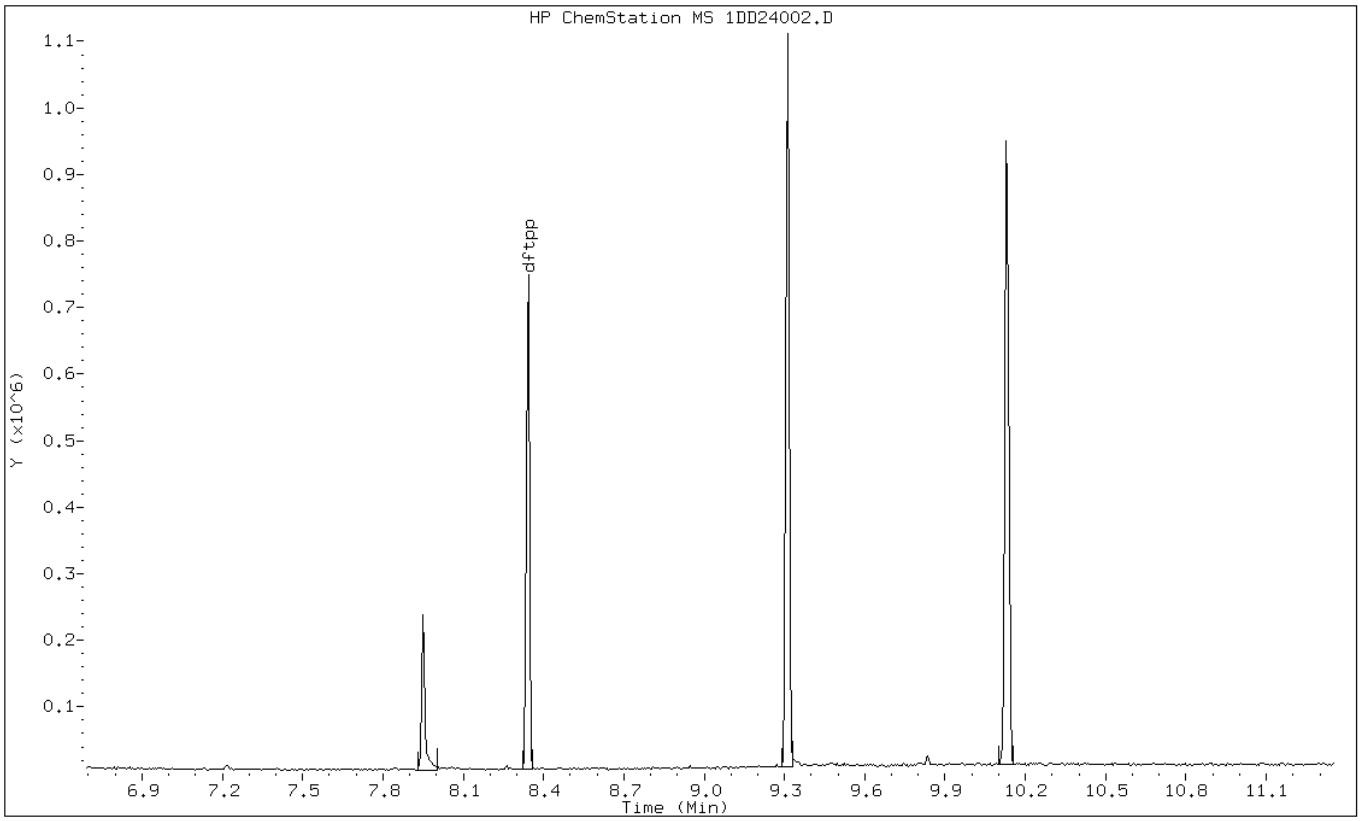
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.344	8.532	-0.188	198	78584			50.00- 0.00	100.00
8.344	8.532	-0.188	51	30672			10.00- 80.00	39.03
8.344	8.532	-0.188	68	0	0.0	0.0	0.00- 2.00	0.00
8.344	8.532	-0.188	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



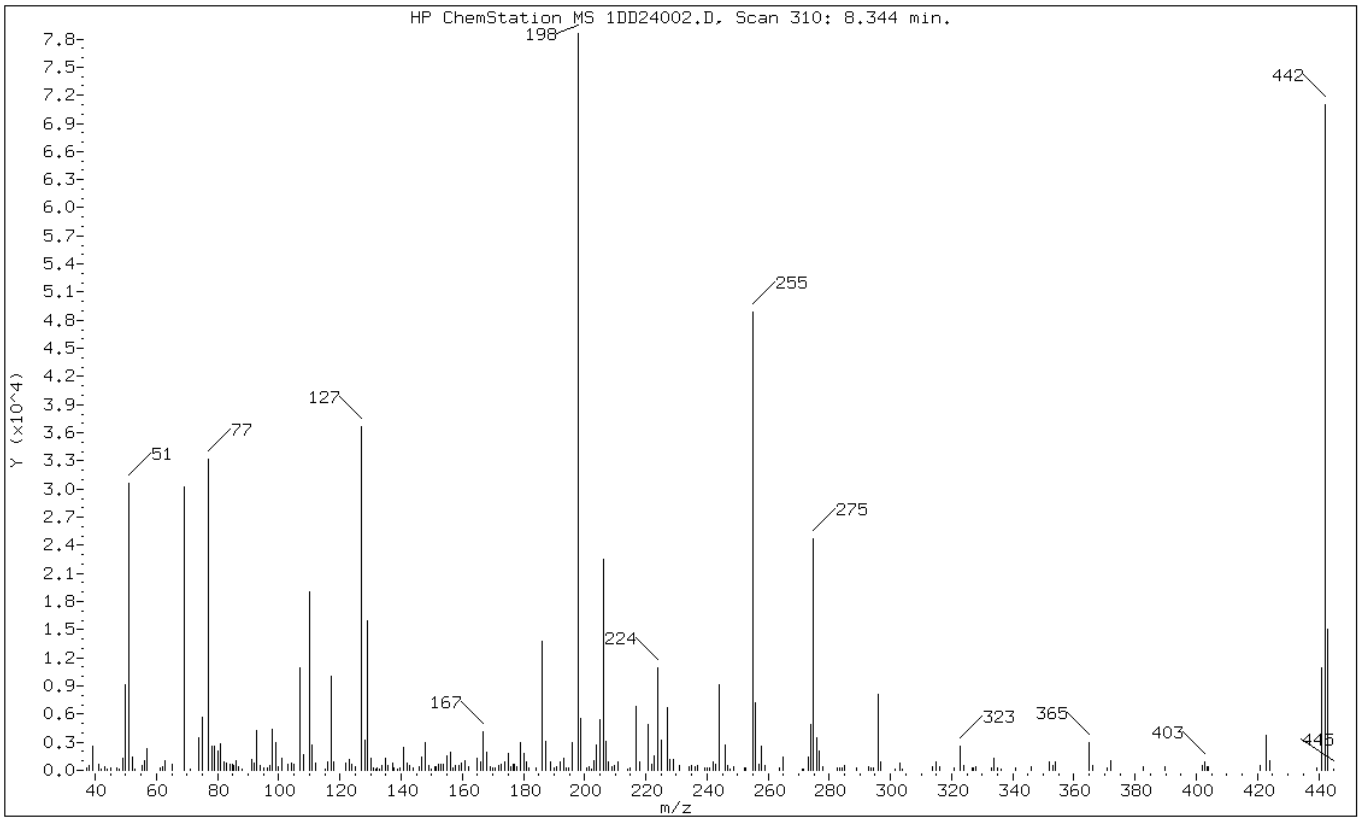
Data File: 1DD24002.D

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		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 25-APR-2013 12:00
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.338	8.532	-0.194	198	72240			50.00- 0.00	100.00
8.338	8.532	-0.194	51	34384			10.00- 80.00	47.60
8.338	8.532	-0.194	68	0	0.0	0.0	0.00- 2.00	0.00
8.338	8.532	-0.194	69	34336			0.00- 0.00	47.53
8.338	8.532	-0.194	70	401			0.00- 2.00	1.17
8.338	8.532	-0.194	127	37776			10.00- 80.00	52.29
8.338	8.532	-0.194	197	0	0.0	0.0	0.00- 2.00	0.00
8.338	8.532	-0.194	442	55624			50.00- 0.00	77.00
8.338	8.532	-0.194	199	5545			5.00- 9.00	7.68
8.338	8.532	-0.194	275	21896			10.00- 60.00	30.31
8.338	8.532	-0.194	365	2982			1.00- 0.00	4.13
8.338	8.532	-0.194	441	9122			0.01- 99.99	86.55
8.338	8.532	-0.194	443	10539			15.00- 24.00	18.95

Data File: 1DD25002.D

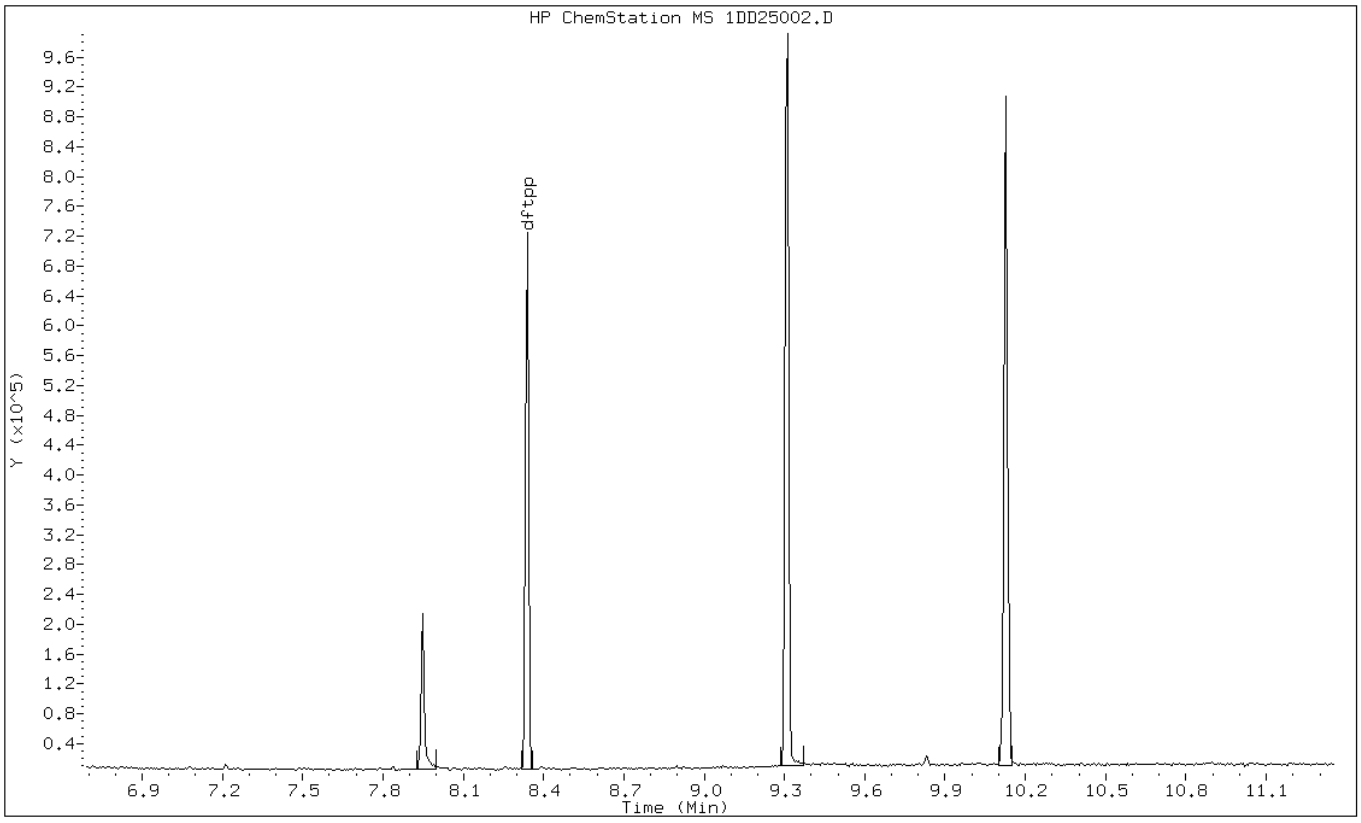
Date: 25-APR-2013 12:00

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



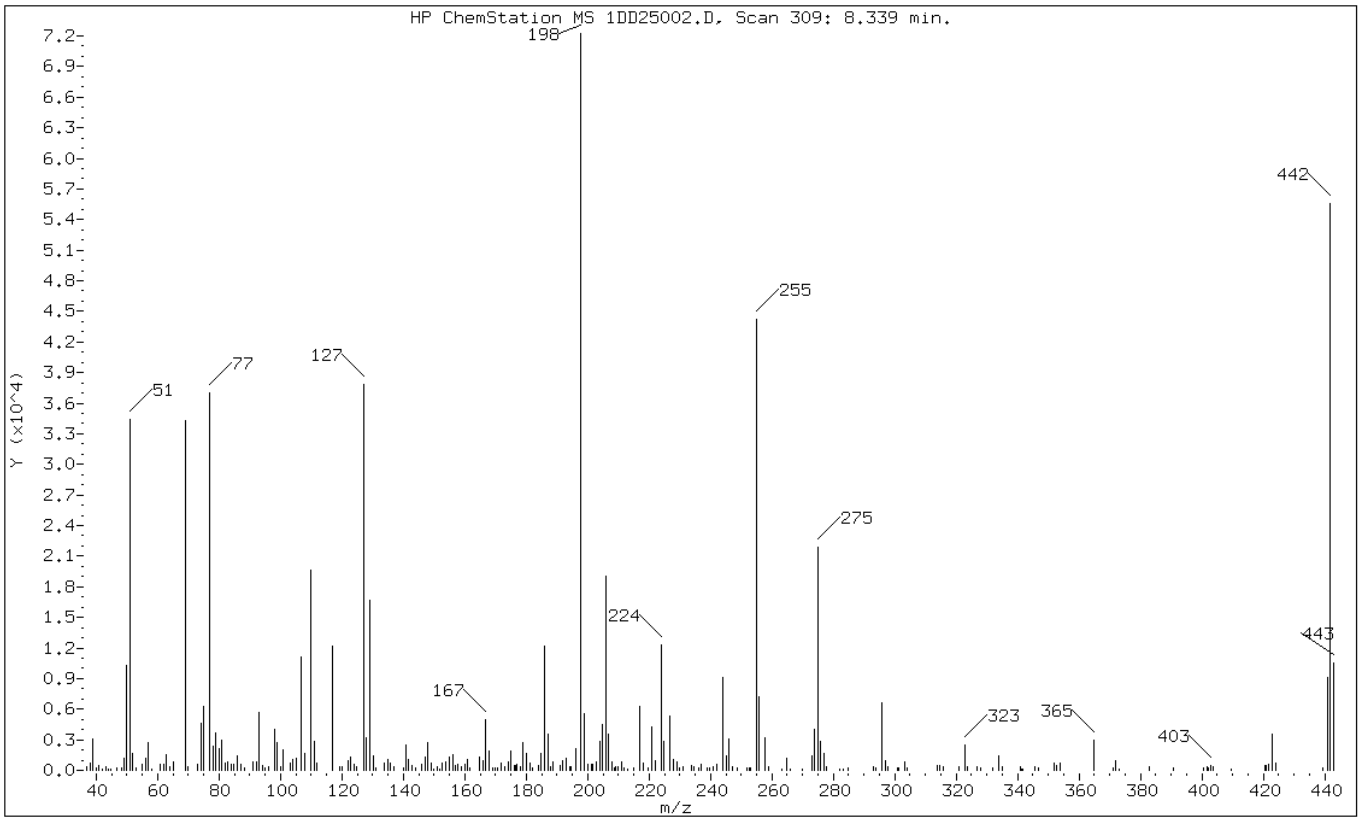
Data File: 1DD25002.D

Date: 25-APR-2013 12:00

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	47.60
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.53
70	Less than 2.00% of mass 69	0.56 (1.17)
127	10.00 - 80.00% of mass 198	52.29
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	77.00
199	5.00 - 9.00% of mass 198	7.68
275	10.00 - 60.00% of mass 198	30.31
365	Greater than 1.00% of mass 198	4.13
441	Present, but less than mass 443	12.63
443	15.00 - 24.00% of mass 442	14.59 (18.95)

Data File: 1DD25002.D

Date: 25-APR-2013 12:00

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25002.D
Spectrum: HP ChemStation MS 1DD25002.D, Scan 309: 8.339 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	360	119.10	308	188.90	862	272.90	1395
38.10	721	119.90	352	191.00	525	273.90	4040
39.00	3050	122.00	930	192.00	994	275.00	21896
40.10	282	122.90	1269	193.10	1138	275.90	2818
41.00	505	123.90	598	194.10	337	276.80	1610
42.00	153	124.90	389	194.60	323	277.80	338
43.10	385	127.00	37776	196.00	2152	281.90	171
43.90	173	128.00	3147	197.90	72240	283.20	171
44.90	175	129.00	16632	198.90	5545	284.90	204
46.90	210	130.10	1381	200.10	616	292.90	385
48.10	243	131.20	231	201.40	554	294.00	181
49.10	1174	133.90	687	201.60	576	295.90	6625
50.00	10272	135.00	1065	202.90	871	296.90	972
51.00	34384	135.90	676	204.00	2886	297.70	300
52.00	1656	137.10	408	204.90	4481	301.00	204
53.00	247	139.90	267	205.90	19088	301.40	191
55.00	622	141.00	2467	206.90	3573	303.10	815
56.00	1182	141.80	1021	208.00	770	304.00	209
57.00	2765	142.80	515	208.60	265	313.70	464
57.90	162	144.10	249	209.10	351	314.80	433
60.90	628	146.00	640	209.70	408	315.90	351
61.90	594	147.00	1242	210.90	871	321.00	380
62.90	1517	147.90	2719	211.70	269	323.00	2538
64.10	323	148.90	676	213.00	168	323.80	355
65.00	785	149.90	151	214.90	247	326.90	412
69.00	34336	151.10	396	216.90	6311	327.80	233
70.00	401	151.90	171	218.00	747	331.80	211
73.00	605	152.80	652	219.80	227	334.00	1476
74.00	4579	153.90	788	221.00	4234	335.10	329
75.00	6255	155.10	1270	221.90	1001	340.80	309
77.00	37040	156.00	1509	224.00	12272	341.40	165
78.00	2312	156.90	418	224.90	2864	341.80	160
78.90	3618	157.80	634	226.90	5281	345.70	408
80.00	2137	159.00	343	227.90	1071	346.90	220
81.00	2901	160.00	624	229.00	845	351.80	683
81.90	652	160.90	1040	229.90	235	352.80	475
82.10	632	161.80	210	231.20	303	353.90	710
82.90	876	164.90	1334	233.80	414	364.90	2982
83.90	625	166.00	889	234.80	400	371.20	213
84.90	606	166.90	5007	236.10	276	372.00	994

85.90	1473	167.90	1902	236.90	564	373.00	160
87.00	633	168.90	275	238.90	228	382.90	380
88.20	205	169.10	261	239.80	184	390.90	184
91.00	789	169.70	205	240.90	348	400.70	209
92.20	817	170.80	193	242.00	604	401.70	355
92.90	5674	172.00	688	244.00	9162	402.20	248
94.10	493	172.90	356	245.10	1372	402.90	518
95.10	229	174.00	875	245.90	3077	403.50	374
96.00	405	174.90	1861	247.20	383	409.60	153
97.90	4027	176.00	475	248.80	248	420.70	429
99.00	2694	176.40	529	251.80	183	421.00	478
100.20	335	177.00	607	252.60	203	421.80	587
101.00	2011	178.00	371	252.90	180	422.90	3575
103.00	689	179.00	2754	253.20	179	423.90	733
103.90	1068	179.90	1605	254.90	44240	439.30	181
105.00	1133	181.10	762	255.90	7166	441.00	9122
106.90	11166	181.90	190	257.90	3216	441.90	55624
107.90	1653	183.90	472	259.10	373	442.90	10539
110.00	19608	184.90	1652	263.40	151		
110.90	2784	186.00	12172	264.90	1162		
111.90	651	187.00	3521	265.90	159		
116.90	12173	188.10	329	270.00	154		

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: | Lab Sample ID: MB 660-136731/1-A

Matrix: Solid | Lab File ID: 1CD24015.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/23/2013 10:36

Sample wt/vol: 14.98(g) | Date Analyzed: 04/24/2013 16:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136792 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24015.D
Lab Smp Id: mb 660-136731/1-a
Inj Date : 24-APR-2013 16:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136731/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * 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	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

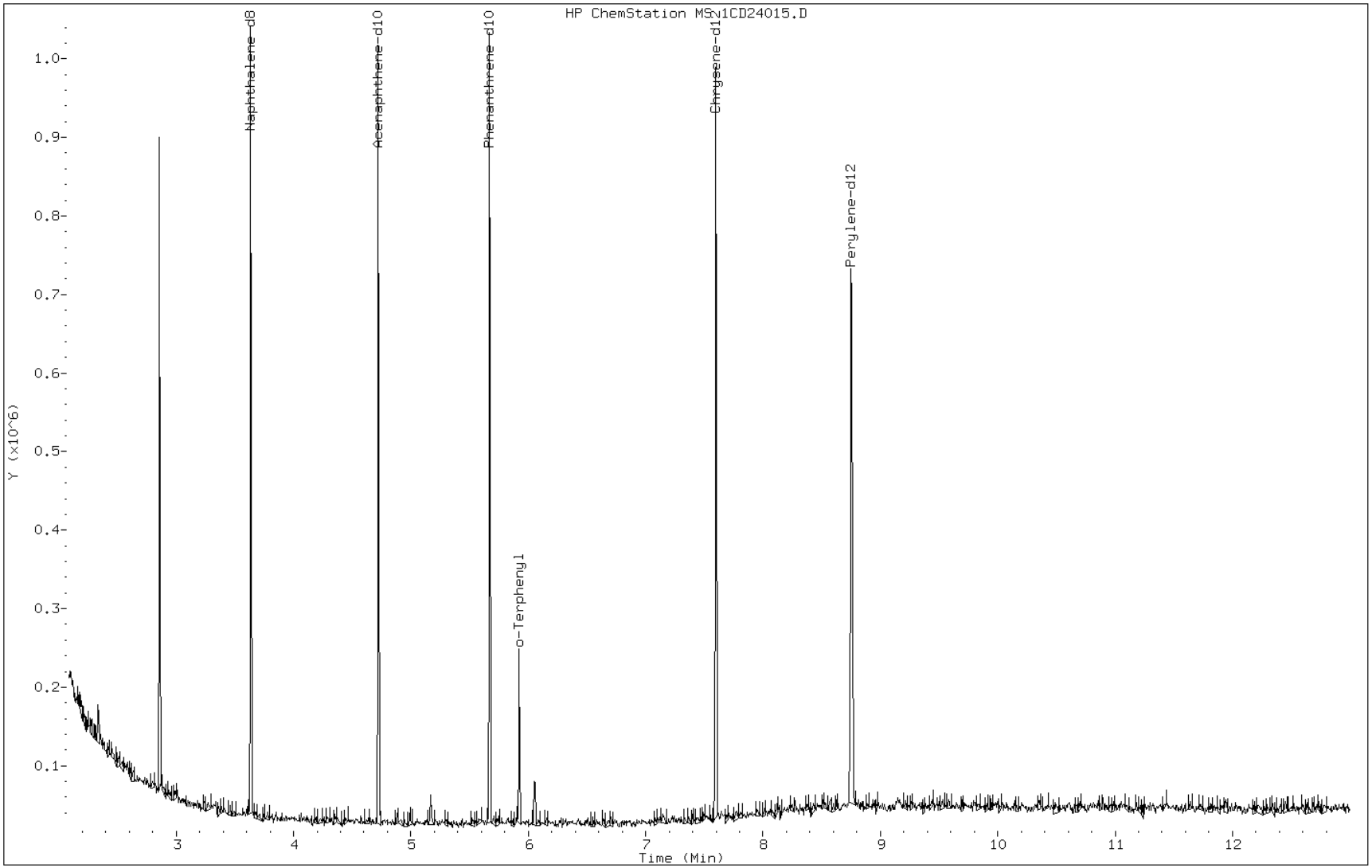
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	148951	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	95079	40.0000	
* 10 Phenanthrene-d10	188	5.668	5.663	(1.000)	165222	40.0000	
$ 14 o-Terphenyl	230	5.921	5.910	(1.045)	19615	8.17685	545.8512
* 18 Chrysene-d12	240	7.598	7.592	(1.000)	187433	40.0000	
* 23 Perylene-d12	264	8.751	8.733	(1.000)	213613	40.0000	

Data File: 1CD24015.D

Date: 24-APR-2013 16:40

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136731/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: | Lab Sample ID: MB 660-136752/1-A

Matrix: Solid | Lab File ID: 1DD24014.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/23/2013 14:49

Sample wt/vol: 15.31(g) | Date Analyzed: 04/24/2013 16:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136826 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	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:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * 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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (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

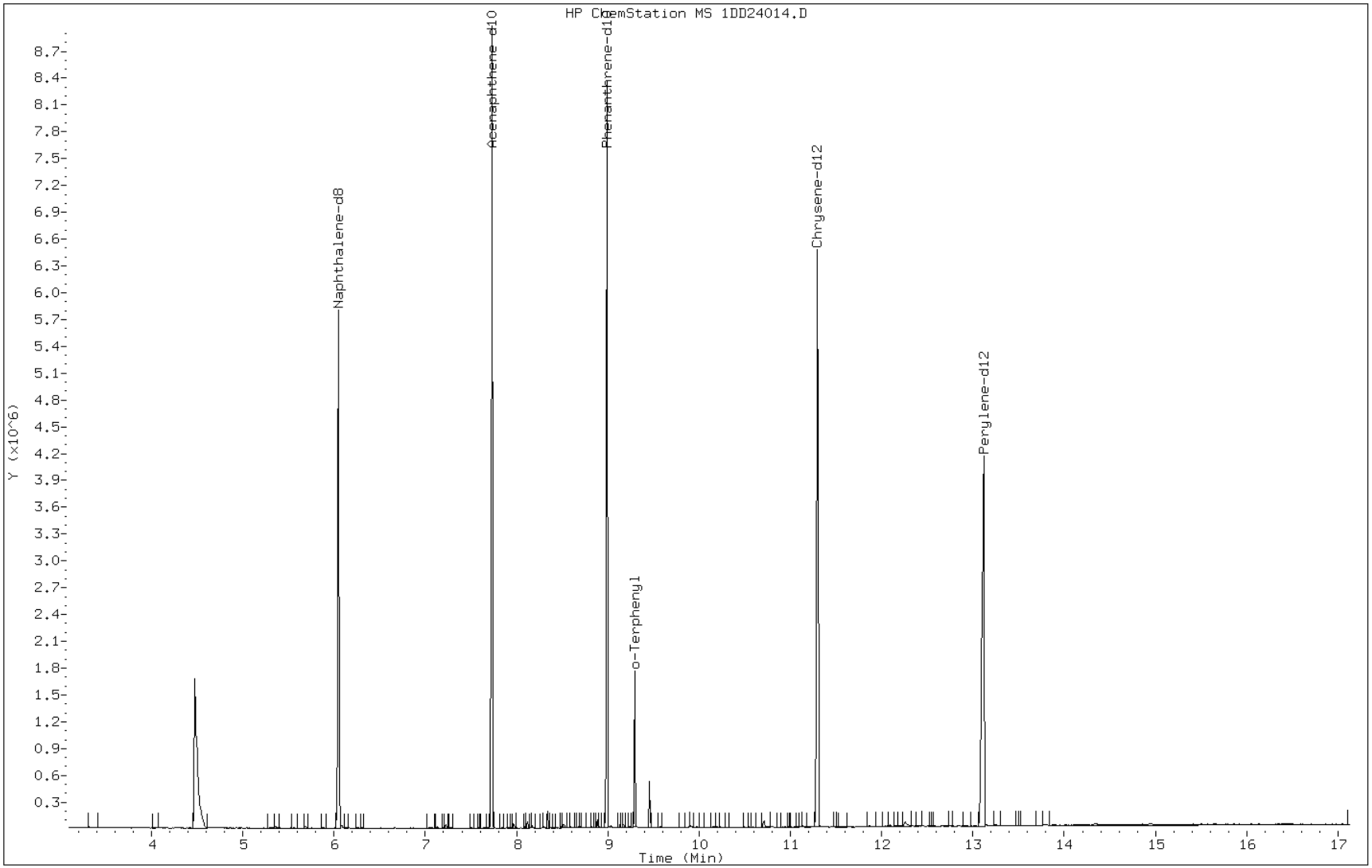
M - Compound response manually integrated.

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

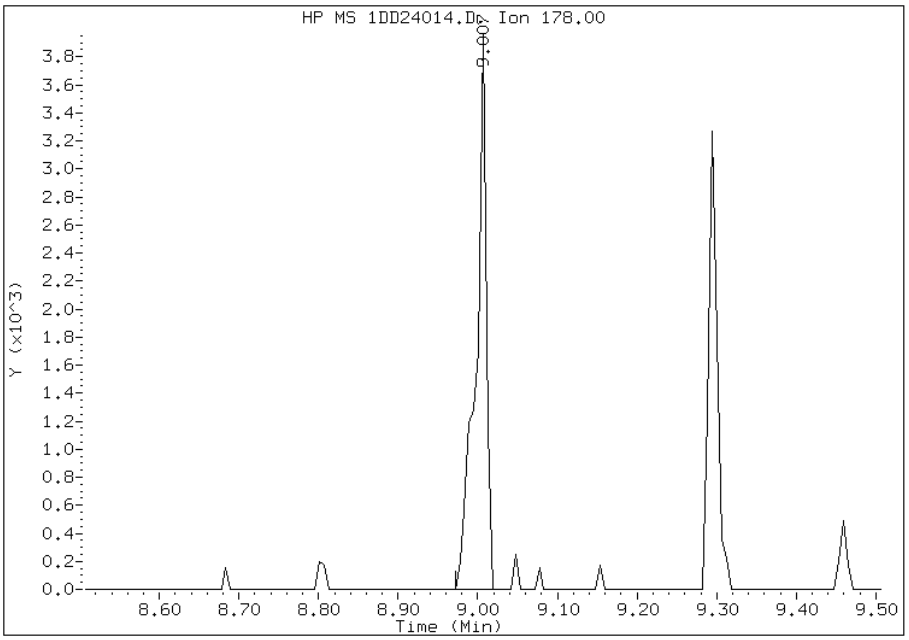
Processing Integration Results

RT: 9.01

Response: 3539

Amount: 0

Conc: 3



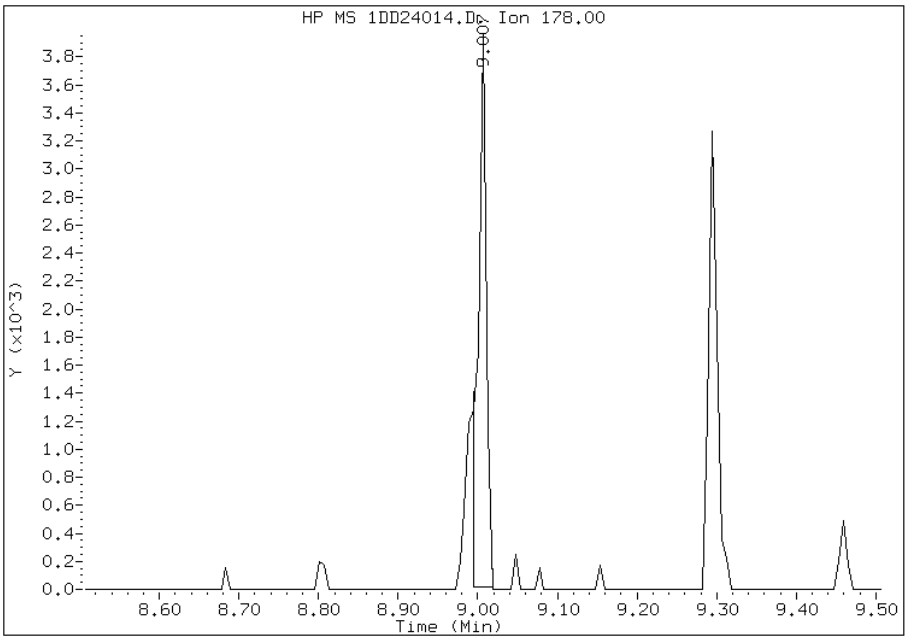
Manual Integration Results

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: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: MB 660-136774/1-A
Matrix: Solid
Lab File ID: 1DD25005.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/24/2013 09:50
Sample wt/vol: 15.21(g)
Date Analyzed: 04/25/2013 15:03
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136899
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.3	U	8.3	4.1
56-55-3	Benzo[a]anthracene	7.9	U	7.9	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	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	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	7.9	U	7.9	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25005.D
Lab Smp Id: MB 660-136774/1-A
Inj Date : 25-APR-2013 15:03
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136774/1-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.048	6.049	(1.000)	2384477	40.0000	
* 6 Acenaphthene-d10	164	7.728	7.729	(1.000)	1549890	40.0000	
* 9 Phenanthrene-d10	188	8.991	8.992	(1.000)	2537023	40.0000	
$ 13 o-Terphenyl	230	9.297	9.298	(1.034)	279797	7.31950	480
* 17 Chrysene-d12	240	11.306	11.307	(1.000)	2547187	40.0000	
* 22 Perylene-d12	264	13.128	13.129	(1.000)	2556822	40.0000	
10 Phenanthrene	178	9.009	9.010	(1.002)	2381	0.03407	2.2(Q)
14 Fluoranthene	202	9.990	9.997	(1.111)	2263	0.03147	2.1

QC Flag Legend

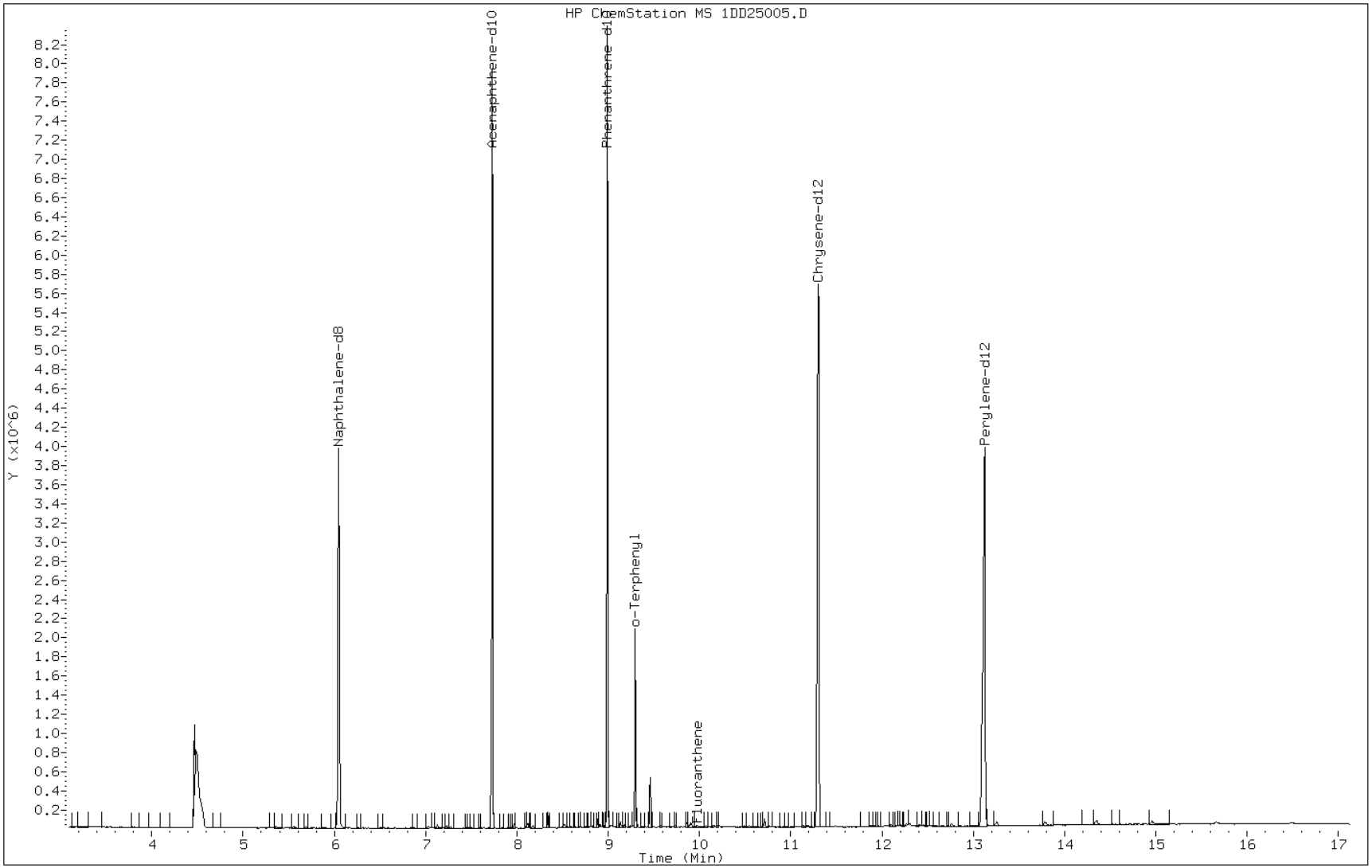
Q - Qualifier signal failed the ratio test.

Data File: 1DD25005.D

Date: 25-APR-2013 15:03

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136774/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: LCS 660-136731/2-A
Matrix: Solid
Lab File ID: 1CD24016.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 10:36
Sample wt/vol: 14.96(g)
Date Analyzed: 04/24/2013 16:58
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136792
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	523		100	20
208-96-8	Acenaphthylene	506		40	5.0
120-12-7	Anthracene	577		8.4	4.2
56-55-3	Benzo[a]anthracene	787		8.0	3.9
50-32-8	Benzo[a]pyrene	499		10	5.2
205-99-2	Benzo[b]fluoranthene	562		12	6.1
191-24-2	Benzo[g,h,i]perylene	542		20	4.4
207-08-9	Benzo[k]fluoranthene	662		8.0	3.6
218-01-9	Chrysene	567		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	631		20	4.1
206-44-0	Fluoranthene	617		20	4.0
86-73-7	Fluorene	597		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	574		20	7.1
90-12-0	1-Methylnaphthalene	546		40	4.4
91-57-6	2-Methylnaphthalene	521		40	7.1
91-20-3	Naphthalene	612		40	4.4
85-01-8	Phenanthrene	653		8.0	3.9
129-00-0	Pyrene	571		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24016.D
Lab Smp Id: lcs 660-136731/2-a
Inj Date : 24-APR-2013 16:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136731/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	127322	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	84433	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	159954	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	19208	8.27090	552.8675
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	198591	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	222308	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	32048	9.14831	611.5182
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	18011	7.79944	521.3527
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	18389	8.16905	546.0592
5 Acenaphthylene	152	4.633	4.634	(0.981)	32835	7.57549	506.3829
7 Acenaphthene	154	4.739	4.740	(1.004)	19052	7.82545	523.0913
9 Fluorene	166	5.057	5.057	(1.071)	25899	8.92666	596.7019
11 Phenanthrene	178	5.674	5.675	(1.002)	42783	9.76872	652.9890
12 Anthracene	178	5.710	5.710	(1.008)	40678	8.62526	576.5546

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.821	5.822	(1.028)	41408	9.40642	628.7713
15 Fluoranthene	202	6.504	6.504	(1.149)	48977	9.23748	617.4788
16 Pyrene	202	6.674	6.675	(0.880)	50079	8.53851	570.7558
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	61457	11.7663	786.5201
19 Chrysene	228	7.610	7.610	(1.003)	48133	8.48775	567.3631
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	51683	8.40599	561.8976
21 Benzo(k)fluoranthene	252	8.433	8.428	(0.965)	59234	9.90145	661.8613
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	44184	7.46310	498.8706
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	49263	8.58858	574.1030(M)
25 Dibenzo(a,h)anthracene	278	9.851	9.851	(1.127)	50921	9.44616	631.4275
26 Benzo(g,h,i)perylene	276	10.162	10.163	(1.163)	45539	8.11283	542.3014

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CD24016.D

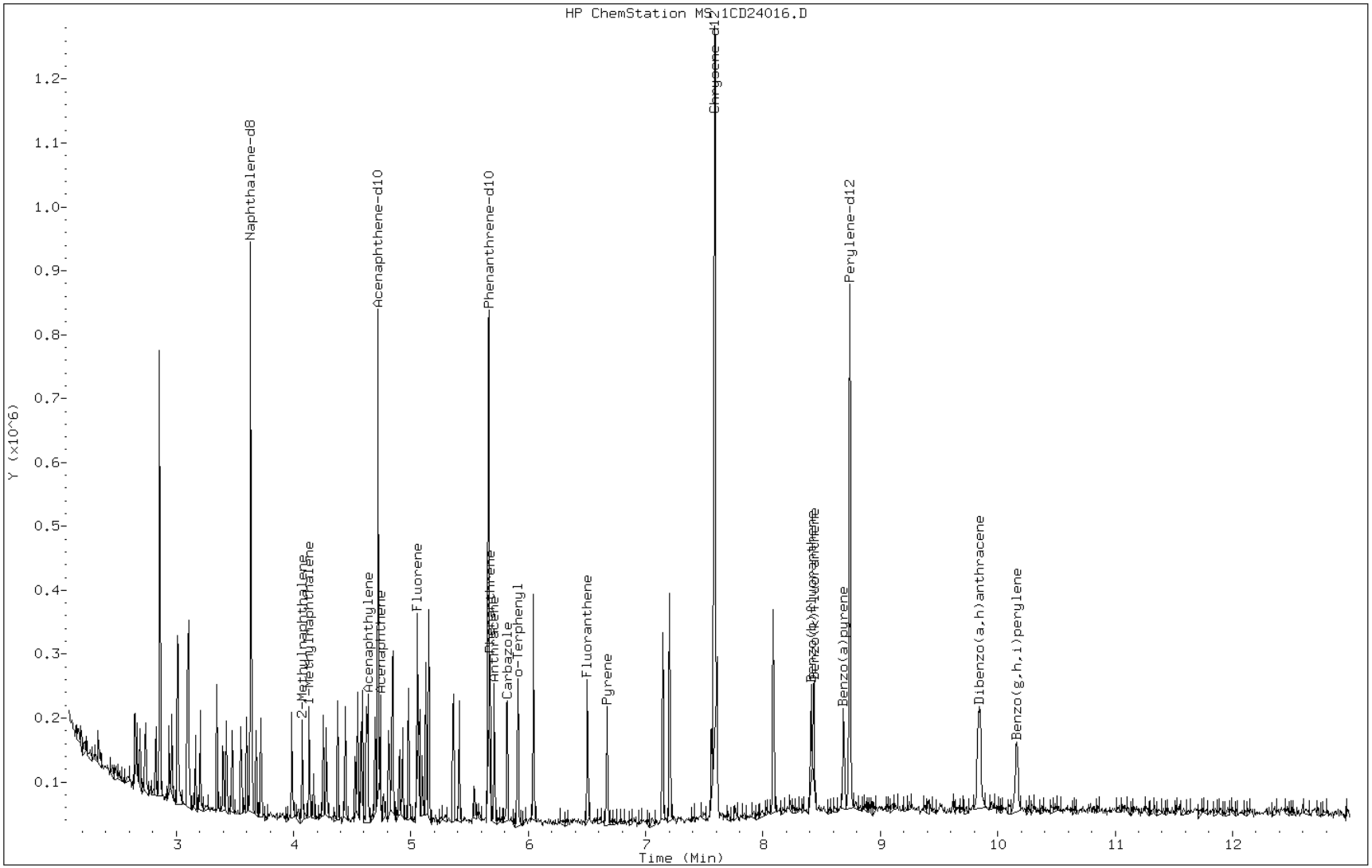
Date: 24-APR-2013 16:58

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-136731/2-a

Operator: SCC



Manual Integration Report

Data File: 1CD24016.D
Inj. Date and Time: 24-APR-2013 16:58
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

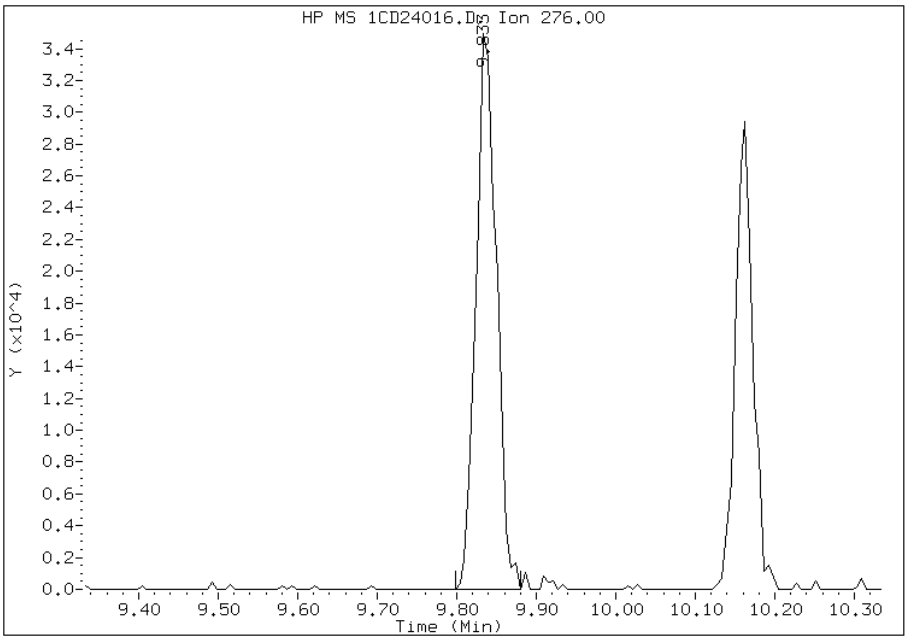
Processing Integration Results

RT: 9.83

Response: 62231

Amount: 11

Conc: 714



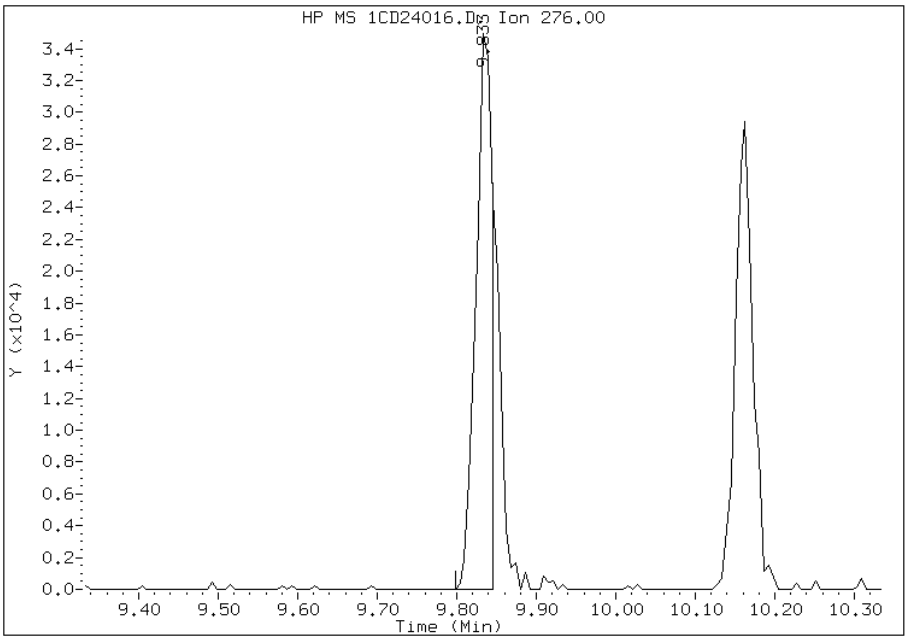
Manual Integration Results

RT: 9.83

Response: 49263

Amount: 9

Conc: 574



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: LCS 660-136752/2-A
Matrix: Solid
Lab File ID: 1DD24015.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 14:49
Sample wt/vol: 15.23(g)
Date Analyzed: 04/24/2013 17:18
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136826
Units: ug/Kg

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:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * 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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS 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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS 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

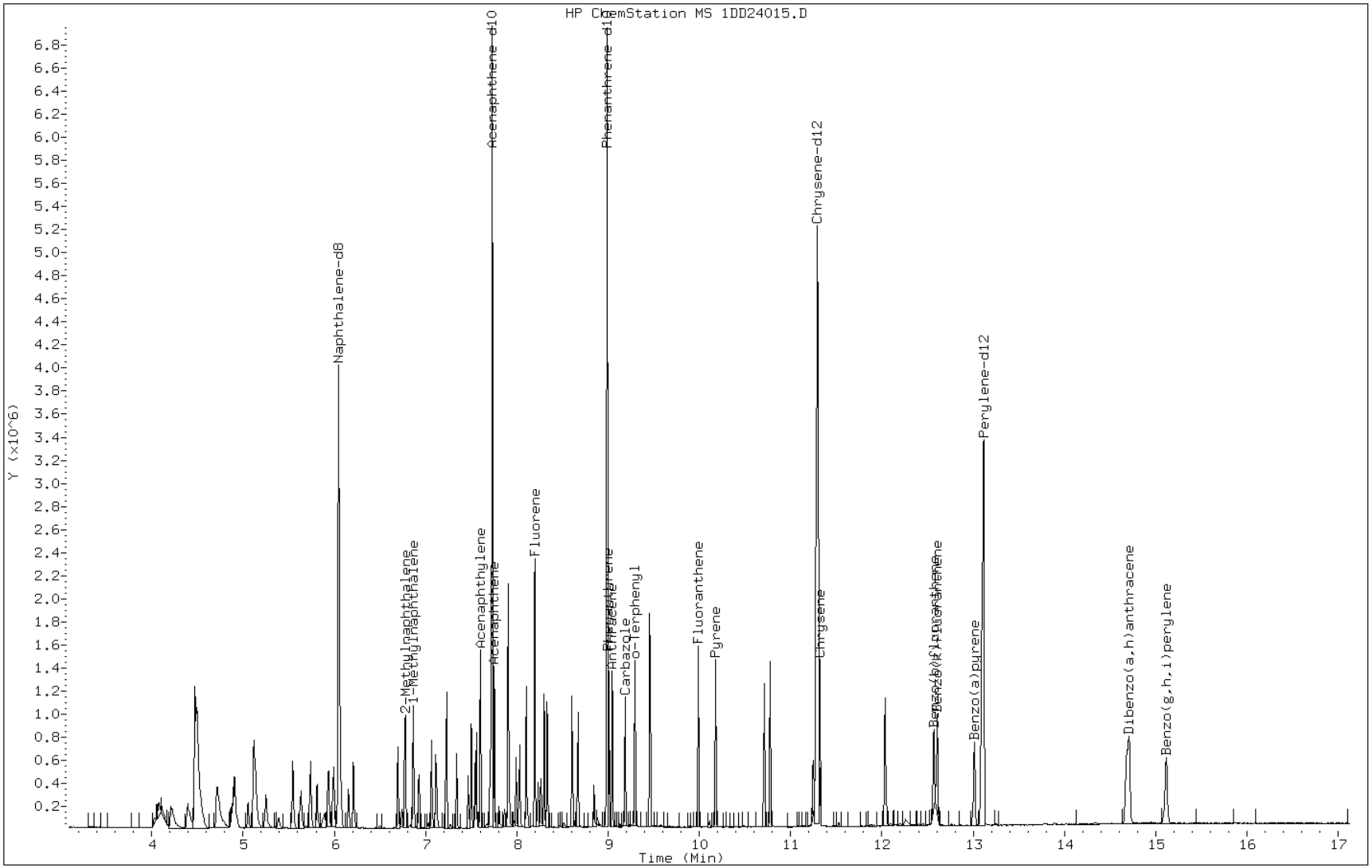
M - Compound response manually integrated.

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

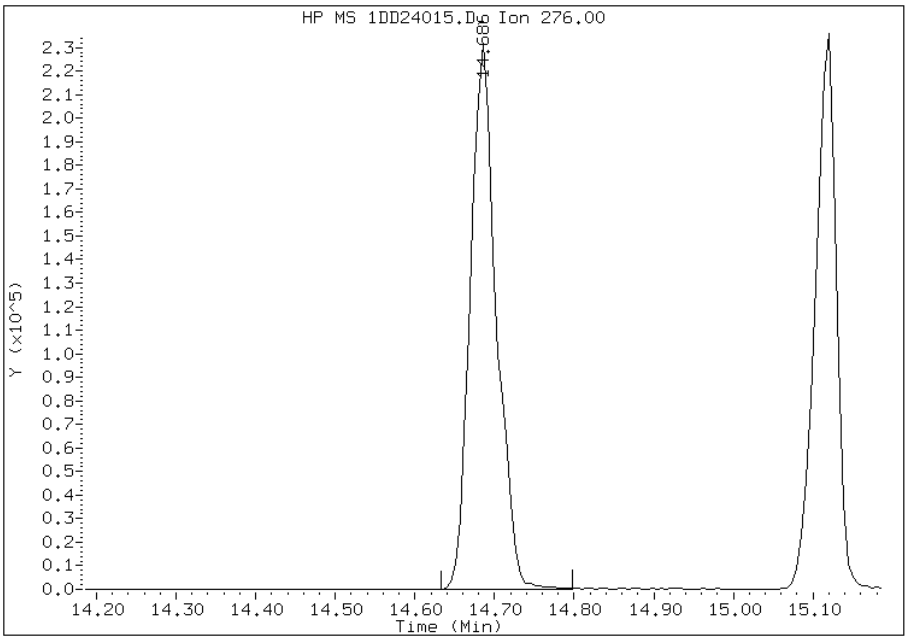
Processing Integration Results

RT: 14.69

Response: 526924

Amount: 10

Conc: 626



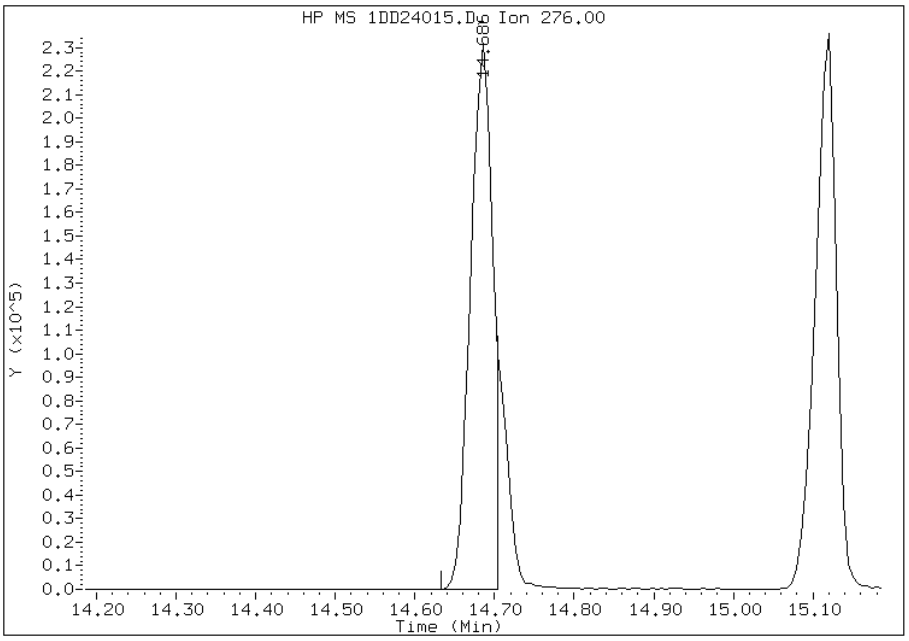
Manual Integration Results

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: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: LCS 660-136774/2-A
Matrix: Solid
Lab File ID: 1DD25006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/24/2013 09:50
Sample wt/vol: 15.07(g)
Date Analyzed: 04/25/2013 15:26
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136899
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	338		100	20
208-96-8	Acenaphthylene	354		40	5.0
120-12-7	Anthracene	347		8.4	4.2
56-55-3	Benzo[a]anthracene	371		8.0	3.9
50-32-8	Benzo[a]pyrene	335		10	5.2
205-99-2	Benzo[b]fluoranthene	389		12	6.1
191-24-2	Benzo[g,h,i]perylene	374		20	4.4
207-08-9	Benzo[k]fluoranthene	369		8.0	3.6
218-01-9	Chrysene	343		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	390		20	4.1
206-44-0	Fluoranthene	384		20	4.0
86-73-7	Fluorene	377		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	376		20	7.1
90-12-0	1-Methylnaphthalene	371		40	4.4
91-57-6	2-Methylnaphthalene	363		40	7.1
91-20-3	Naphthalene	343		40	4.4
85-01-8	Phenanthrene	350		8.0	3.9
129-00-0	Pyrene	329		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25006.D
Lab Smp Id: LCS 660-136774/2-A
Inj Date : 25-APR-2013 15:26
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136774/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.044	6.049	(1.000)	3082764	40.0000	
* 6 Acenaphthene-d10	164	7.730	7.729	(1.000)	1983850	40.0000	
* 9 Phenanthrene-d10	188	8.993	8.992	(1.000)	3364032	40.0000	
$ 13 o-Terphenyl	230	9.293	9.298	(1.033)	275788	5.44099	360
* 17 Chrysene-d12	240	11.302	11.307	(1.000)	3686793	40.0000	
* 22 Perylene-d12	264	13.129	13.129	(1.000)	3571439	40.0000	
2 Naphthalene	128	6.067	6.072	(1.004)	396407	5.17343	340
3 2-Methylnaphthalene	142	6.772	6.777	(1.121)	270735	5.47349	360
4 1-Methylnaphthalene	142	6.866	6.871	(1.136)	261457	5.59742	370
5 Acenaphthylene	152	7.601	7.600	(0.983)	448367	5.33992	350
7 Acenaphthene	154	7.753	7.759	(1.003)	263900	5.09176	340
8 Fluorene	166	8.194	8.199	(1.060)	349070	5.68742	380
10 Phenanthrene	178	9.005	9.010	(1.001)	488327	5.27003	350
11 Anthracene	178	9.046	9.051	(1.006)	480624	5.22594	350

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.187	9.192	(1.022)	400005	4.93089	330(RM)
14 Fluoranthene	202	9.992	9.997	(1.111)	551351	5.78222	380
15 Pyrene	202	10.174	10.185	(0.900)	549257	4.96104	330
16 Benzo(a)anthracene	228	11.279	11.284	(0.998)	595540	5.58707	370
18 Chrysene	228	11.326	11.331	(1.002)	516745	5.17024	340
19 Benzo(b)fluoranthene	252	12.571	12.582	(0.957)	522558	5.85726	390
20 Benzo(k)fluoranthene	252	12.607	12.623	(0.960)	523173	5.56634	370
21 Benzo(a)pyrene	252	13.018	13.035	(0.991)	452614	5.04920	340
23 Indeno(1,2,3-cd)pyrene	276	14.686	14.715	(1.119)	542091	5.67139	380(M)
24 Dibenzo(a,h)anthracene	278	14.716	14.744	(1.121)	528807	5.87501	390
25 Benzo(g,h,i)perylene	276	15.127	15.156	(1.152)	518349	5.63217	370

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD25006.D

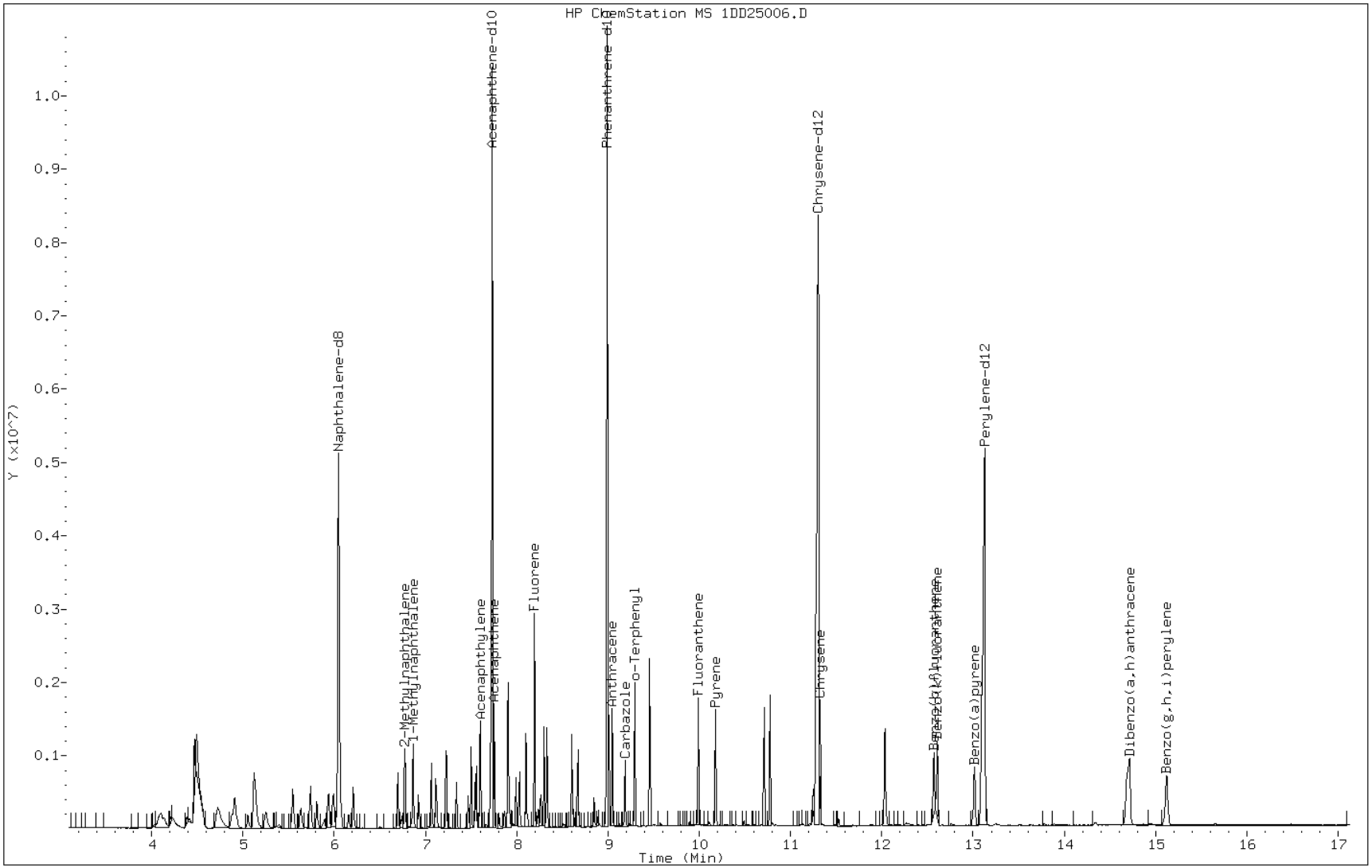
Date: 25-APR-2013 15:26

Client ID:

Instrument: BSMSD.i

Sample Info: LCS 660-136774/2-A

Operator: SCC



Manual Integration Report

Data File: 1DD25006.D
Inj. Date and Time: 25-APR-2013 15:26
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

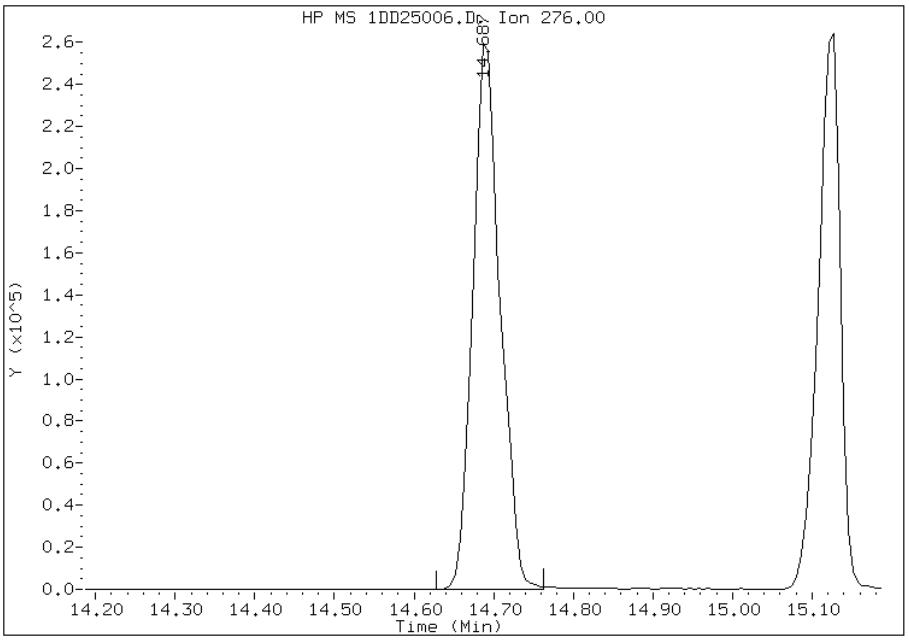
Processing Integration Results

RT: 14.69

Response: 618343

Amount: 6

Conc: 429



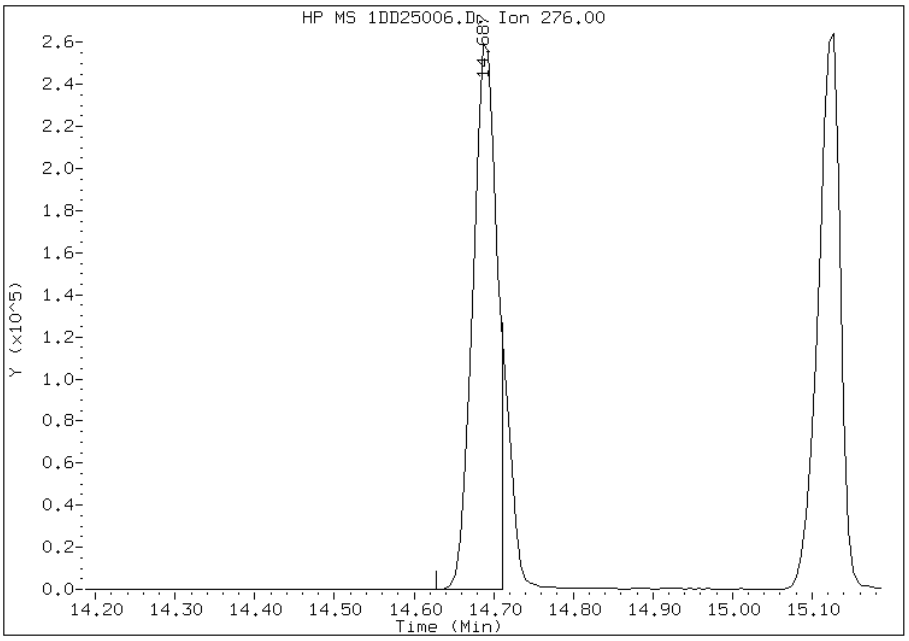
Manual Integration Results

RT: 14.69

Response: 542091

Amount: 6

Conc: 376



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 15:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: 680-89421-A-1-B MS
Matrix: Solid
Lab File ID: 1CD24018.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 10:36
Sample wt/vol: 14.96(g)
Date Analyzed: 04/24/2013 17:34
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 23.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136792
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	648		520	100
208-96-8	Acenaphthylene	637		210	26
120-12-7	Anthracene	637		44	22
56-55-3	Benzo[a]anthracene	1260		42	20
50-32-8	Benzo[a]pyrene	940		54	27
205-99-2	Benzo[b]fluoranthene	1430		64	32
191-24-2	Benzo[g,h,i]perylene	953		100	23
207-08-9	Benzo[k]fluoranthene	972		42	19
218-01-9	Chrysene	1430		47	23
53-70-3	Dibenz(a,h)anthracene	778		100	21
206-44-0	Fluoranthene	1430		100	21
86-73-7	Fluorene	588		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	820		100	37
90-12-0	1-Methylnaphthalene	1000		210	23
91-57-6	2-Methylnaphthalene	1270		210	37
91-20-3	Naphthalene	1010		210	23
85-01-8	Phenanthrene	1490		42	20
129-00-0	Pyrene	1170		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24018.D
Lab Smp Id: 680-89421-a-1-b ms
Inj Date : 24-APR-2013 17:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 14 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * 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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	132812	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	88305	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	182302	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	4952	1.87092	500.2456
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	228957	40.0000	
* 23 Perylene-d12	264	8.739	8.733	(1.000)	224834	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	10671	2.90905	777.8220
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	8235	3.66883	980.9696(R)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	6823	2.88239	770.6925
5 Acenaphthylene	152	4.633	4.634	(0.981)	6925	1.83437	490.4721
7 Acenaphthene	154	4.739	4.740	(1.004)	4677	1.86622	498.9888
9 Fluorene	166	5.057	5.057	(1.071)	5149	1.69495	453.1938
11 Phenanthrene	178	5.674	5.675	(1.002)	21482	4.30373	1150.7288(R)
12 Anthracene	178	5.710	5.710	(1.008)	9257	1.83481	490.5912

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.821	5.822	(1.028)	9785	1.95031	521.4743
15 Fluoranthene	202	6.504	6.504	(1.149)	24937	4.11251	1099.6002(R)
16 Pyrene	202	6.668	6.675	(0.879)	22701	3.35720	897.6464(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	21750	3.62776	969.9891(R)
19 Chrysene	228	7.609	7.610	(1.003)	26963	4.12405	1102.6864(R)
20 Benzo(b)fluoranthene	252	8.409	8.410	(0.962)	25530	4.10568	1097.7752(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.964)	16937	2.79935	748.4892
22 Benzo(a)pyrene	252	8.686	8.686	(0.994)	15336	2.70701	723.8006
24 Indeno(1,2,3-cd)pyrene	276	9.833	9.833	(1.125)	10891	2.36051	631.1531(M)
25 Dibenzo(a,h)anthracene	278	9.845	9.851	(1.127)	12214	2.24032	599.0149
26 Benzo(g,h,i)perylene	276	10.150	10.163	(1.162)	15575	2.74353	733.5646

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD24018.D

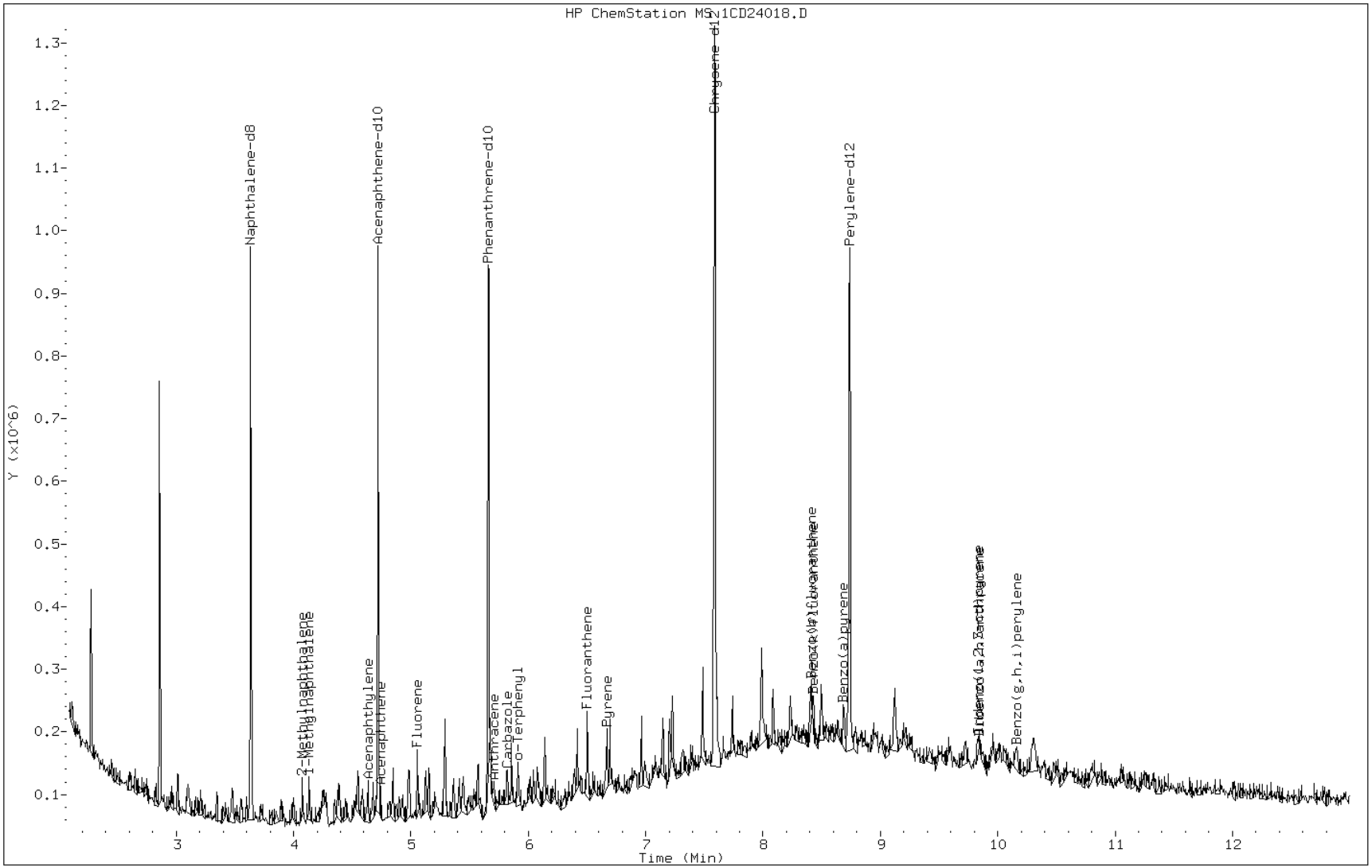
Date: 24-APR-2013 17:34

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-b ms

Operator: SCC



Manual Integration Report

Data File: 1CD24018.D
Inj. Date and Time: 24-APR-2013 17:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

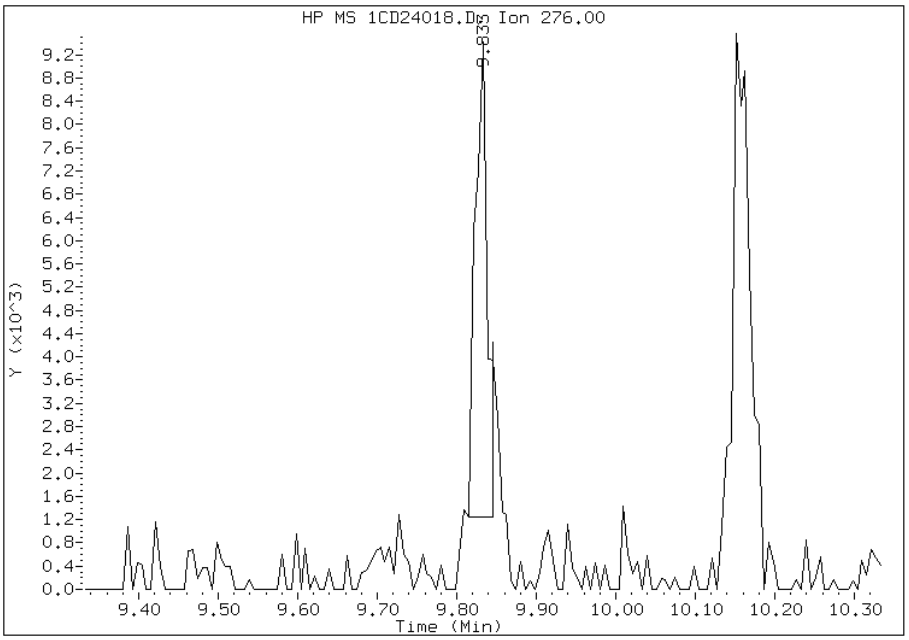
Processing Integration Results

RT: 9.83

Response: 8650

Amount: 2

Conc: 535



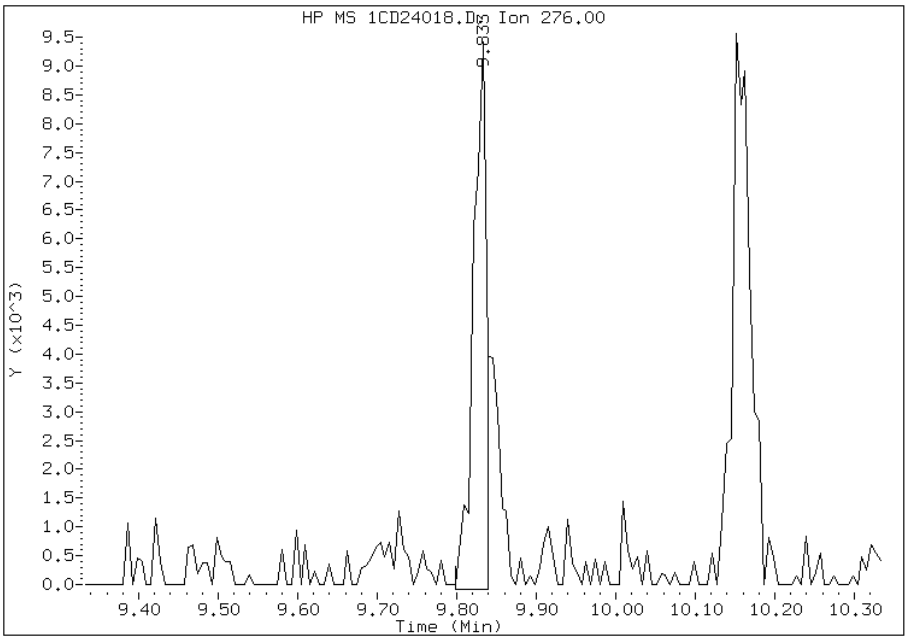
Manual Integration Results

RT: 9.83

Response: 10891

Amount: 2

Conc: 631



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: 680-89459-A-22-B MS
Matrix: Solid
Lab File ID: 1DD24020.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 14:49
Sample wt/vol: 15.37(g)
Date Analyzed: 04/24/2013 19:10
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 23.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136826
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	531		130	26
208-96-8	Acenaphthylene	558		51	6.4
120-12-7	Anthracene	578		11	5.4
56-55-3	Benzo[a]anthracene	706		10	5.0
50-32-8	Benzo[a]pyrene	697		13	6.6
205-99-2	Benzo[b]fluoranthene	906		16	7.8
191-24-2	Benzo[g,h,i]perylene	530		26	5.6
207-08-9	Benzo[k]fluoranthene	721		10	4.6
218-01-9	Chrysene	733		12	5.8
53-70-3	Dibenz(a,h)anthracene	551		26	5.2
206-44-0	Fluoranthene	751		26	5.1
86-73-7	Fluorene	584		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	561		26	9.1
90-12-0	1-Methylnaphthalene	605		51	5.6
91-57-6	2-Methylnaphthalene	618		51	9.1
91-20-3	Naphthalene	589		51	5.6
85-01-8	Phenanthrene	650		10	5.0
129-00-0	Pyrene	637		26	4.7

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\1D042413.b\1DD24020.D
Lab Smp Id: 680-89459-A-22-B MS
Inj Date : 24-APR-2013 19:10
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-22-B MS
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: 20 QC Sample: MS
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.048	6.049	(1.000)	2047873	40.0000	
* 6 Acenaphthene-d10	164	7.734	7.730	(1.000)	1241886	40.0000	
* 9 Phenanthrene-d10	188	8.992	8.993	(1.000)	2023214	40.0000	
$ 13 o-Terphenyl	230	9.297	9.298	(1.034)	196219	6.43668	420
* 17 Chrysene-d12	240	11.301	11.302	(1.000)	2174744	40.0000	
* 22 Perylene-d12	264	13.128	13.123	(1.000)	2244148	40.0000	
2 Naphthalene	128	6.072	6.073	(1.004)	351668	6.90887	450
3 2-Methylnaphthalene	142	6.777	6.778	(1.120)	238373	7.25461	470
4 1-Methylnaphthalene	142	6.871	6.872	(1.136)	220175	7.09566	460
5 Acenaphthylene	152	7.599	7.600	(0.983)	343776	6.54039	420
7 Acenaphthene	154	7.758	7.759	(1.003)	202062	6.22787	400
8 Fluorene	166	8.199	8.200	(1.060)	263275	6.85235	440
10 Phenanthrene	178	9.009	9.010	(1.002)	425135	7.62864	500
11 Anthracene	178	9.051	9.052	(1.007)	374873	6.77738	440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.192	9.193	(1.022)	297155	6.09061	400
14 Fluoranthene	202	9.997	9.997	(1.112)	505387	8.81270	570
15 Pyrene	202	10.179	10.185	(0.901)	487966	7.47183	490
16 Benzo(a)anthracene	228	11.289	11.284	(0.999)	520928	8.28498	540
18 Chrysene	228	11.324	11.331	(1.002)	506929	8.59850	560
19 Benzo(b)fluoranthene	252	12.582	12.583	(0.958)	595613	10.6247	690
20 Benzo(k)fluoranthene	252	12.617	12.618	(0.961)	499747	8.46186	550
21 Benzo(a)pyrene	252	13.028	13.029	(0.992)	460503	8.17559	530
23 Indeno(1,2,3-cd)pyrene	276	14.709	14.710	(1.120)	395232	6.58053	430(M)
24 Dibenzo(a,h)anthracene	278	14.732	14.733	(1.122)	365237	6.45770	420
25 Benzo(g,h,i)perylene	276	15.143	15.150	(1.154)	359518	6.21678	400

QC Flag Legend

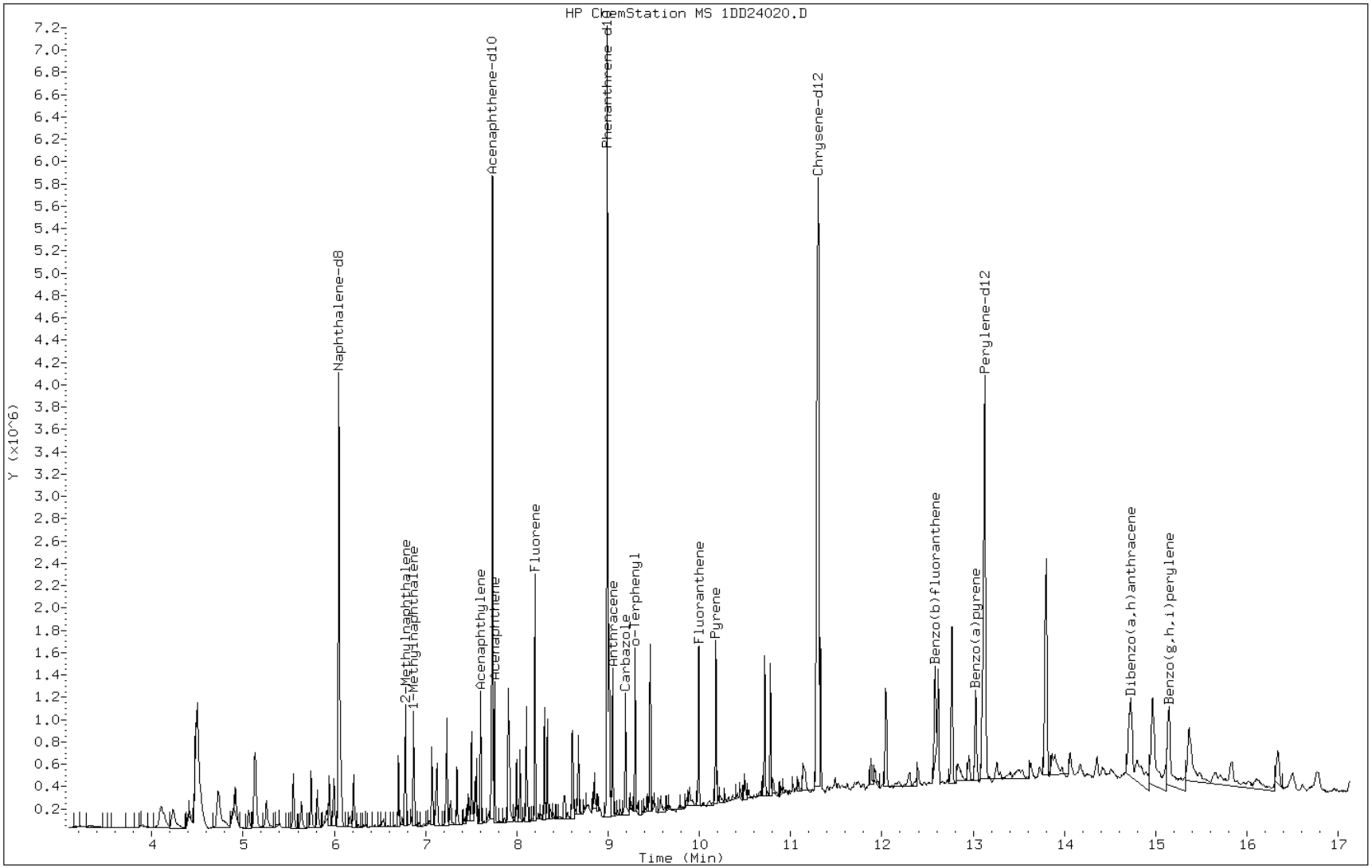
M - Compound response manually integrated.

Data File: 1DD24020.D

Date: 24-APR-2013 19:10

Client ID: Instrument: BSMSD.i

Sample Info: 680-89459-A-22-B MS Operator: SCC



Manual Integration Report

Data File: 1DD24020.D
Inj. Date and Time: 24-APR-2013 19:10
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

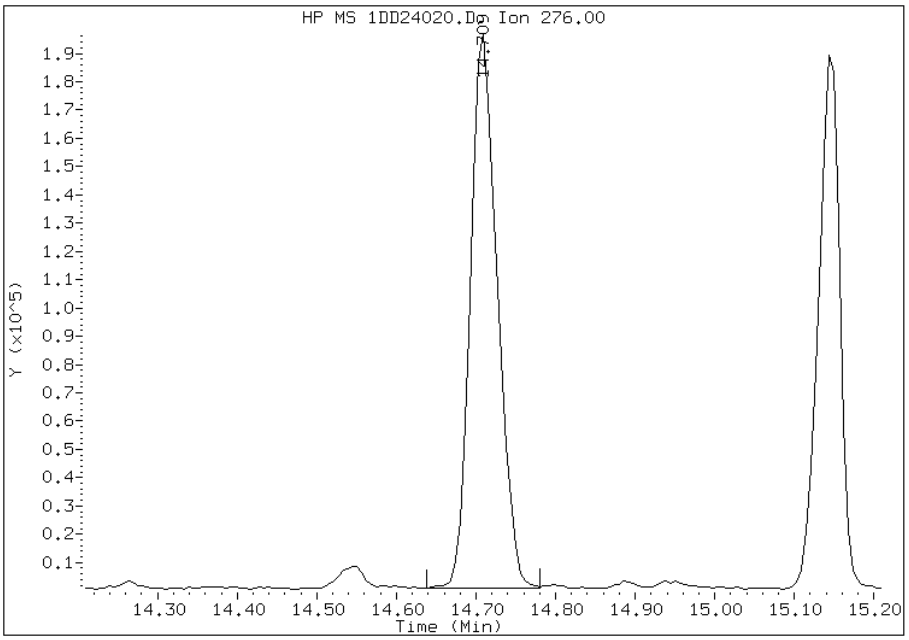
Processing Integration Results

RT: 14.71

Response: 458736

Amount: 8

Conc: 497



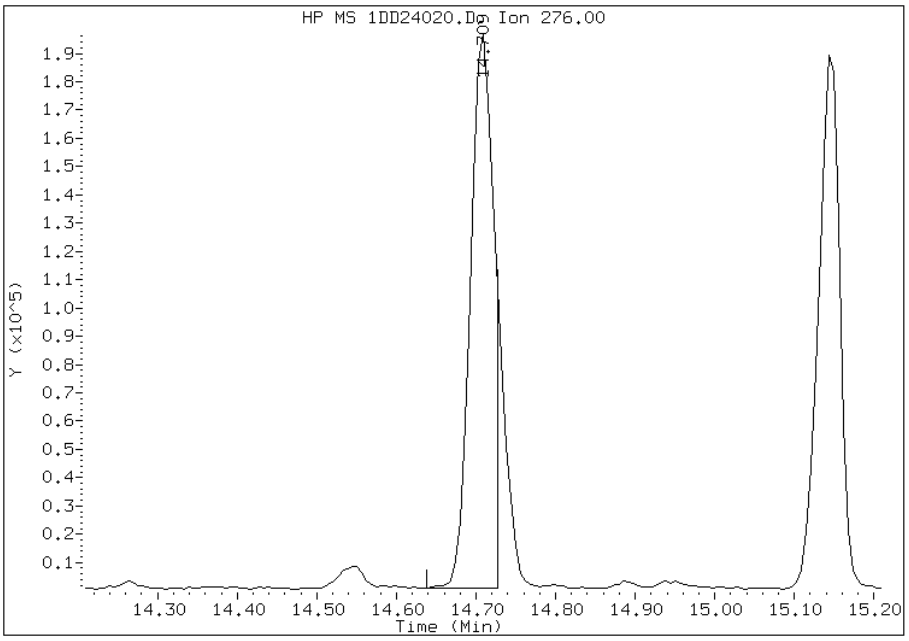
Manual Integration Results

RT: 14.71

Response: 395232

Amount: 7

Conc: 428



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0909A-GS MS | Lab Sample ID: 680-89513-1 MS

Matrix: Solid | Lab File ID: 1DD25008.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:10

Extract. Method: 3546 | Date Extracted: 04/24/2013 09:50

Sample wt/vol: 15.39(g) | Date Analyzed: 04/25/2013 16:11

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136899 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	501	J	530	110
208-96-8	Acenaphthylene	547		210	27
120-12-7	Anthracene	619		45	22
56-55-3	Benzo[a]anthracene	1070		43	21
50-32-8	Benzo[a]pyrene	884		56	28
205-99-2	Benzo[b]fluoranthene	1270		65	33
191-24-2	Benzo[g,h,i]perylene	815		110	23
207-08-9	Benzo[k]fluoranthene	746		43	19
218-01-9	Chrysene	1060		48	24
53-70-3	Dibenz(a,h)anthracene	651		110	22
206-44-0	Fluoranthene	1520		110	21
86-73-7	Fluorene	567		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	743		110	38
90-12-0	1-Methylnaphthalene	874		210	23
91-57-6	2-Methylnaphthalene	929		210	38
91-20-3	Naphthalene	739		210	23
85-01-8	Phenanthrene	1150		43	21
129-00-0	Pyrene	1190		110	20

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\1D042513.b\1DD25008.D
Lab Smp Id: 680-89513-A-1-B MS
Inj Date : 25-APR-2013 16:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89513-A-1-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 8 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.048	6.049	(1.000)	2718972	40.0000	
* 6 Acenaphthene-d10	164	7.729	7.729	(1.000)	1765880	40.0000	
* 9 Phenanthrene-d10	188	8.992	8.992	(1.000)	2975972	40.0000	
$ 13 o-Terphenyl	230	9.292	9.298	(1.033)	65804	1.46753	380
* 17 Chrysene-d12	240	11.301	11.307	(1.000)	3179404	40.0000	
* 22 Perylene-d12	264	13.128	13.129	(1.000)	3131893	40.0000	
2 Naphthalene	128	6.066	6.072	(1.003)	140364	2.07696	540
3 2-Methylnaphthalene	142	6.771	6.777	(1.119)	113912	2.61111	680
4 1-Methylnaphthalene	142	6.865	6.871	(1.135)	101210	2.45667	640
5 Acenaphthylene	152	7.599	7.600	(0.983)	114909	1.53746	400
7 Acenaphthene	154	7.752	7.759	(1.003)	64923	1.40726	360
8 Fluorene	166	8.193	8.199	(1.060)	86968	1.59188	410
10 Phenanthrene	178	9.010	9.010	(1.002)	265756	3.24203	840
11 Anthracene	178	9.045	9.051	(1.006)	141587	1.74026	450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.186	9.192	(1.022)	118904	1.65687	430(M)
14 Fluoranthene	202	9.991	9.997	(1.111)	360597	4.27484	1100(R)
15 Pyrene	202	10.179	10.185	(0.901)	319539	3.34675	870(R)
16 Benzo(a)anthracene	228	11.289	11.284	(0.999)	277126	3.01476	780
18 Chrysene	228	11.324	11.331	(1.002)	257812	2.99117	780
19 Benzo(b)fluoranthene	252	12.570	12.582	(0.957)	279977	3.57865	930(R)
20 Benzo(k)fluoranthene	252	12.605	12.623	(0.960)	172654	2.09477	540
21 Benzo(a)pyrene	252	13.022	13.035	(0.992)	195230	2.48358	640
23 Indeno(1,2,3-cd)pyrene	276	14.691	14.715	(1.119)	174953	2.08725	540(M)
24 Dibenzo(a,h)anthracene	278	14.715	14.744	(1.121)	144395	1.82936	480
25 Benzo(g,h,i)perylene	276	15.126	15.156	(1.152)	184714	2.28870	590

QC Flag Legend

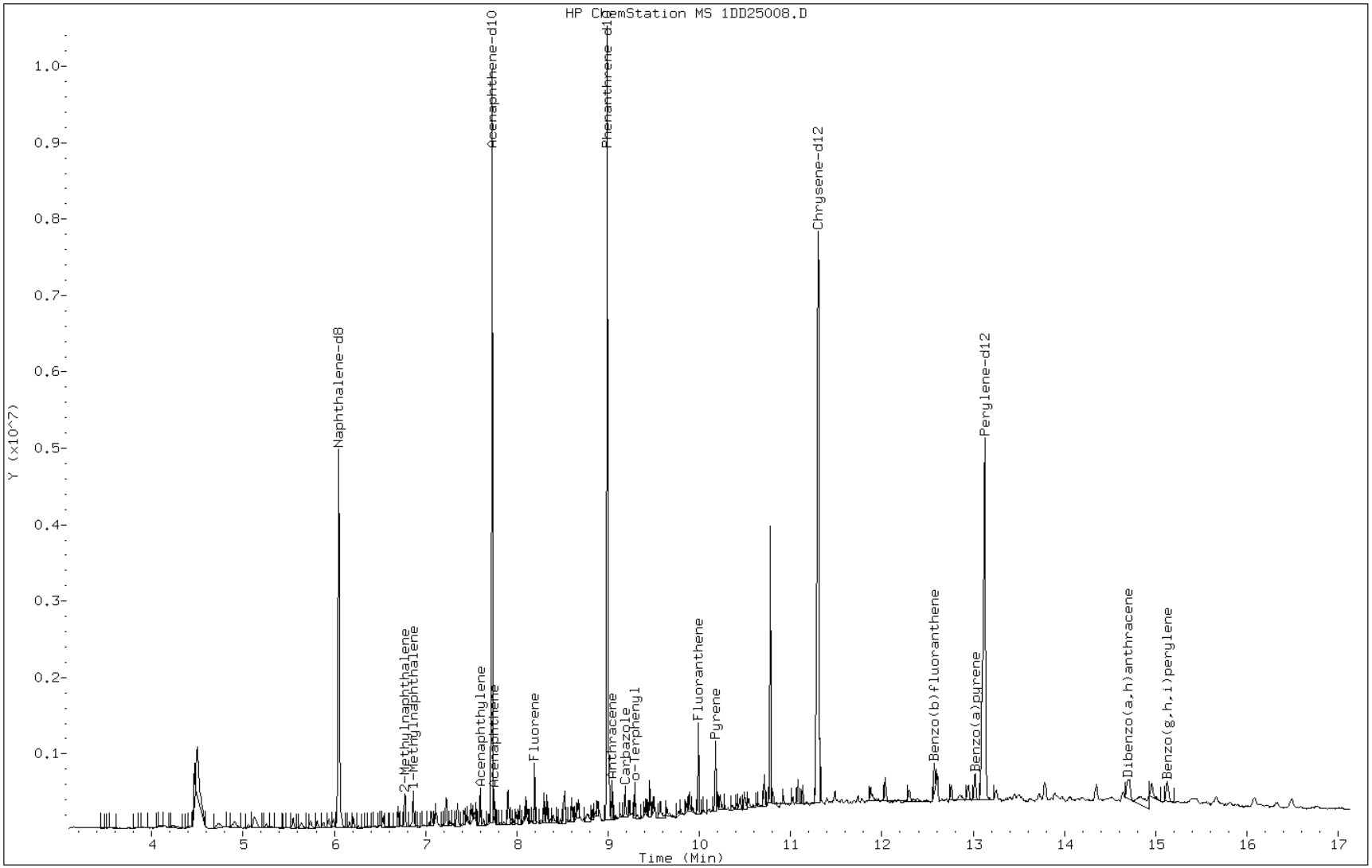
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD25008.D

Date: 25-APR-2013 16:11

Client ID: Instrument: BSMSD.i

Sample Info: 680-89513-A-1-B MS Operator: SCC



Manual Integration Report

Data File: 1DD25008.D
Inj. Date and Time: 25-APR-2013 16:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

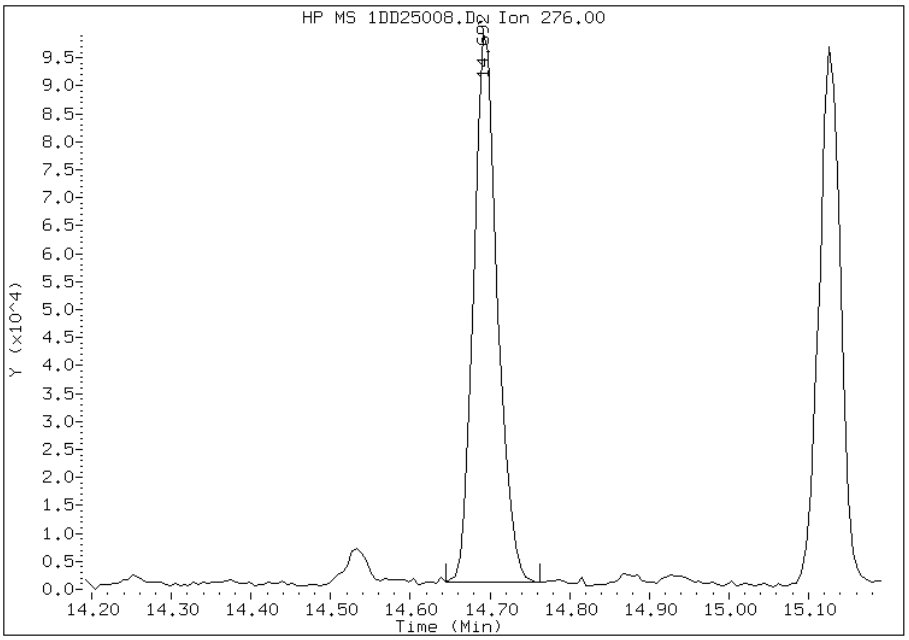
Processing Integration Results

RT: 14.69

Response: 203498

Amount: 2

Conc: 631



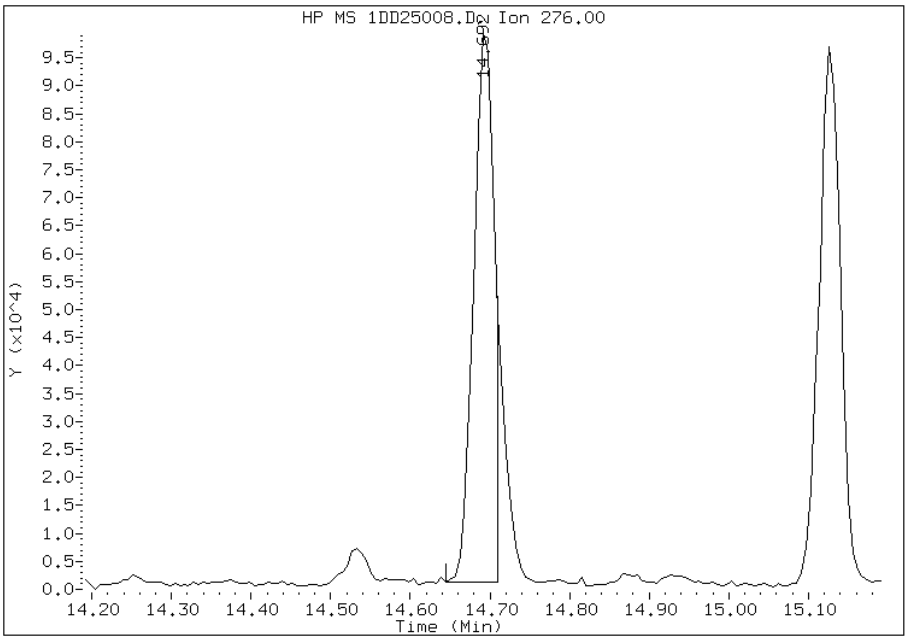
Manual Integration Results

RT: 14.69

Response: 174953

Amount: 2

Conc: 542



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 15:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: 680-89421-A-1-C MSD
Matrix: Solid
Lab File ID: 1CD24019.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 10:36
Sample wt/vol: 14.99(g)
Date Analyzed: 04/24/2013 17:52
Con. Extract Vol.: 1(mL)
Dilution Factor: 4
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 23.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136792
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	543		520	100
208-96-8	Acenaphthylene	662		210	26
120-12-7	Anthracene	660		44	22
56-55-3	Benzo[a]anthracene	1270		42	20
50-32-8	Benzo[a]pyrene	1100		54	27
205-99-2	Benzo[b]fluoranthene	1290		63	32
191-24-2	Benzo[g,h,i]perylene	868		100	23
207-08-9	Benzo[k]fluoranthene	1030		42	19
218-01-9	Chrysene	1290		47	23
53-70-3	Dibenz(a,h)anthracene	665		100	21
206-44-0	Fluoranthene	1700		100	21
86-73-7	Fluorene	800		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	852		100	37
90-12-0	1-Methylnaphthalene	1200		210	23
91-57-6	2-Methylnaphthalene	1300		210	37
91-20-3	Naphthalene	1020		210	23
85-01-8	Phenanthrene	1750		42	20
129-00-0	Pyrene	1470		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\1CD24019.D
Lab Smp Id: 680-89421-a-1-c msd
Inj Date : 24-APR-2013 17:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-89421-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C042413.b\a-bFASTPAHi-m.m
Meth Date : 24-Apr-2013 16:34 cantins Quant Type: ISTD
Cal Date : 24-APR-2013 15:47 Cal File: 1CD24013.D
Als bottle: 15 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.633	3.634	(1.000)	154110	40.0000	
* 6 Acenaphthene-d10	164	4.721	4.722	(1.000)	101315	40.0000	
* 10 Phenanthrene-d10	188	5.663	5.663	(1.000)	195570	40.0000	
$ 14 o-Terphenyl	230	5.910	5.910	(1.044)	6061	2.13456	569.5948
* 18 Chrysene-d12	240	7.586	7.592	(1.000)	245677	40.0000	
* 23 Perylene-d12	264	8.733	8.733	(1.000)	249914	40.0000	
2 Naphthalene	128	3.645	3.646	(1.003)	12536	2.94471	785.7796
3 2-Methylnaphthalene	142	4.074	4.075	(1.121)	9793	3.74615	999.6410(R)
4 1-Methylnaphthalene	142	4.133	4.134	(1.138)	9536	3.45816	922.7915(R)
5 Acenaphthylene	152	4.633	4.634	(0.981)	8373	1.90978	509.6132
7 Acenaphthene	154	4.739	4.740	(1.004)	4486	1.56645	417.9992(Q)
9 Fluorene	166	5.057	5.057	(1.071)	8040	2.30762	615.7757
11 Phenanthrene	178	5.674	5.675	(1.002)	27000	5.04223	1345.4923(R)
12 Anthracene	178	5.710	5.710	(1.008)	10343	1.90514	508.3768

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.816	5.822	(1.027)	11375	2.11341	563.9527
15 Fluoranthene	202	6.504	6.504	(1.149)	31838	4.89927	1307.3445(R)
16 Pyrene	202	6.668	6.675	(0.879)	30824	4.24825	1133.6231(R)
17 Benzo(a)anthracene	228	7.580	7.581	(0.999)	23587	3.66727	978.5915(R)
19 Chrysene	228	7.610	7.610	(1.003)	26177	3.73134	995.6875(R)
20 Benzo(b)fluoranthene	252	8.404	8.410	(0.962)	25781	3.72997	995.3222(R)
21 Benzo(k)fluoranthene	252	8.427	8.428	(0.965)	20030	2.97833	794.7515
22 Benzo(a)pyrene	252	8.680	8.686	(0.994)	20347	3.18815	850.7395
24 Indeno(1,2,3-cd)pyrene	276	9.827	9.833	(1.125)	12796	2.45983	656.3935(M)
25 Dibenzo(a,h)anthracene	278	9.839	9.851	(1.127)	11636	1.92011	512.3712
26 Benzo(g,h,i)perylene	276	10.156	10.163	(1.163)	15804	2.50450	668.3111(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD24019.D

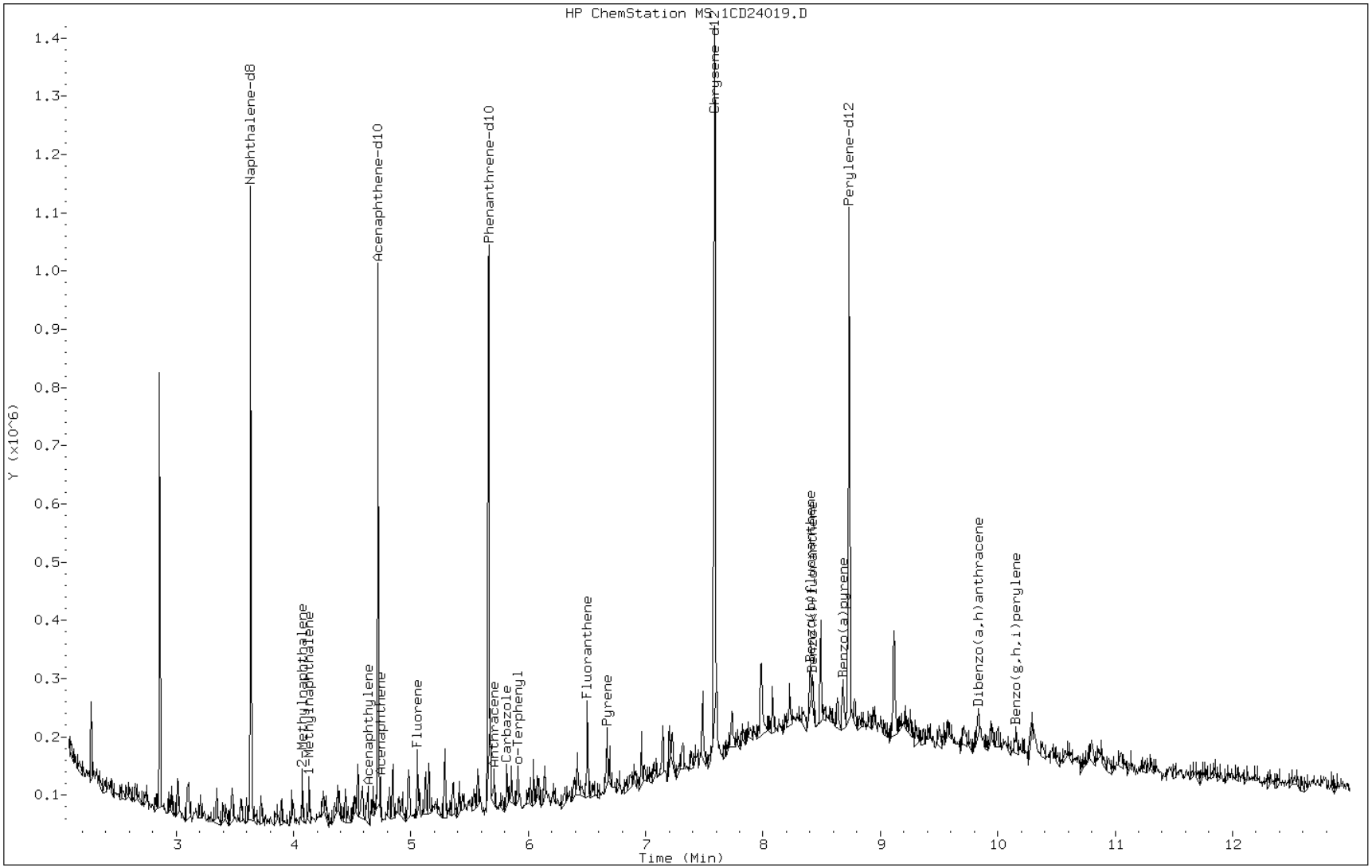
Date: 24-APR-2013 17:52

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-89421-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/25/2013

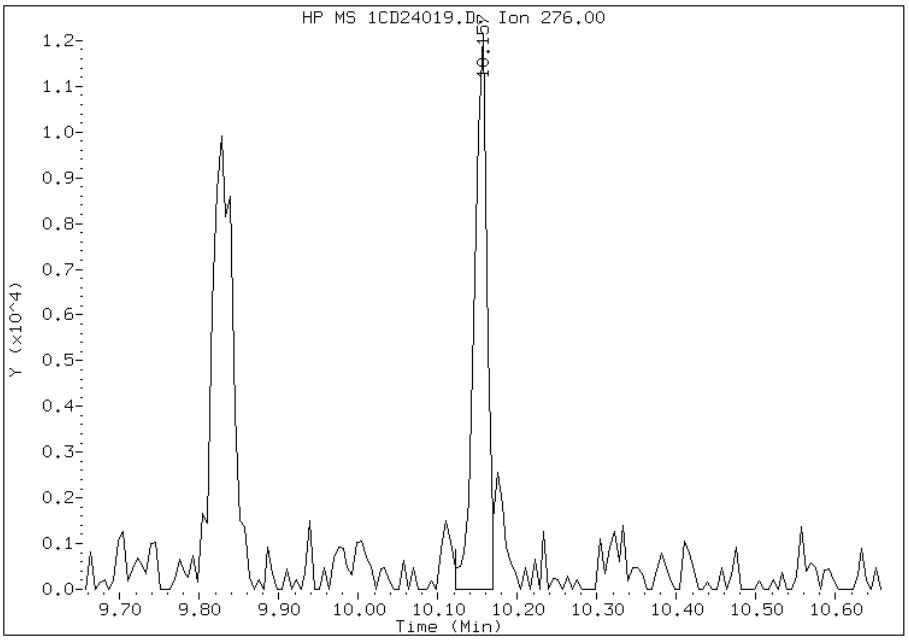
Processing Integration Results

RT: 10.16

Response: 13602

Amount: 2

Conc: 575



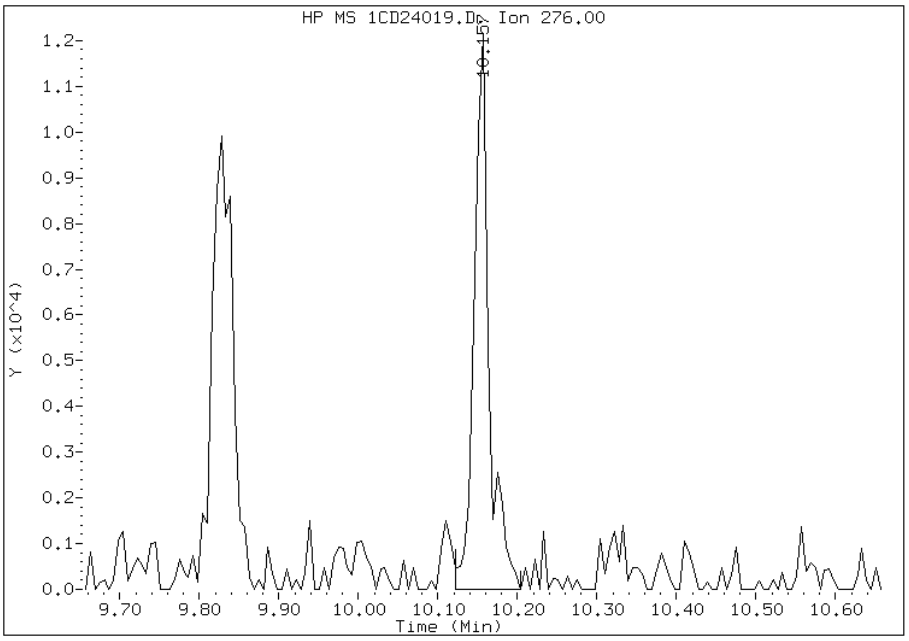
Manual Integration Results

RT: 10.16

Response: 15804

Amount: 3

Conc: 668



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD24019.D
Inj. Date and Time: 24-APR-2013 17:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

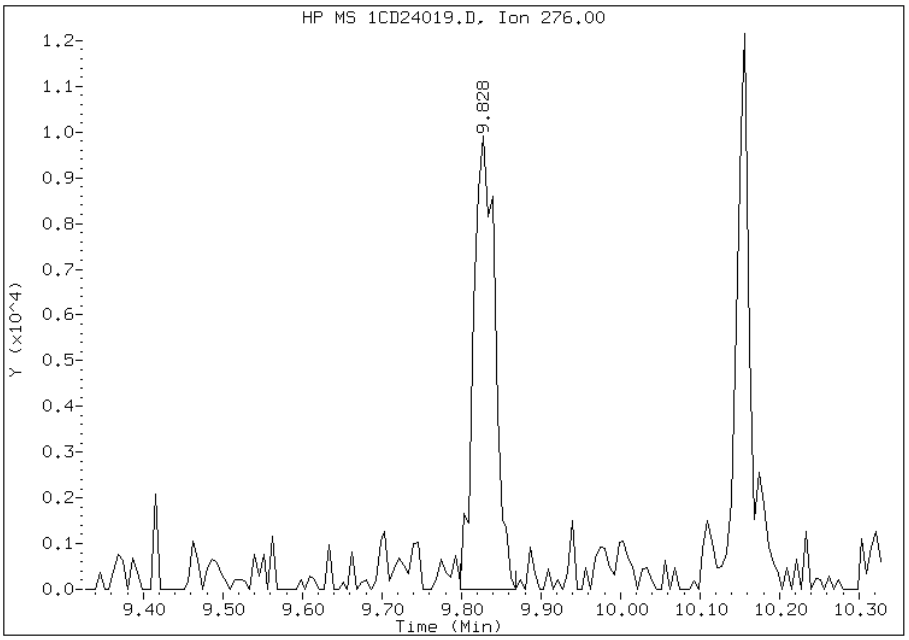
Processing Integration Results

RT: 9.83

Response: 18310

Amount: 3

Conc: 868



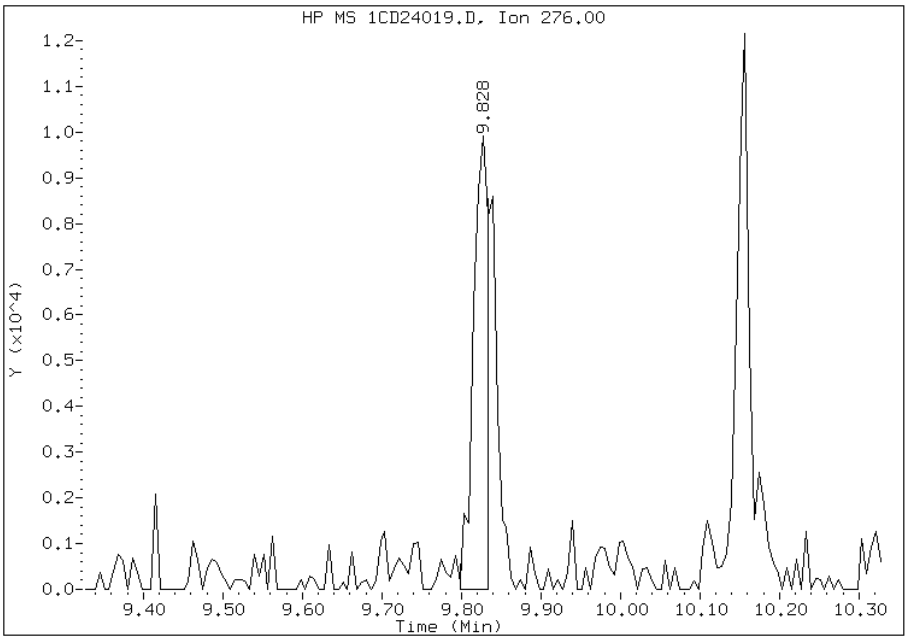
Manual Integration Results

RT: 9.83

Response: 12796

Amount: 2

Conc: 656



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 11:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-89513-1
SDG No.: 68089513-1
Client Sample ID:
Lab Sample ID: 680-89459-A-22-C MSD
Matrix: Solid
Lab File ID: 1DD24021.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/23/2013 14:49
Sample wt/vol: 15.37(g)
Date Analyzed: 04/24/2013 19:33
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 23.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 136826
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	624		130	26
208-96-8	Acenaphthylene	666		51	6.4
120-12-7	Anthracene	691		11	5.4
56-55-3	Benzo[a]anthracene	855		10	5.0
50-32-8	Benzo[a]pyrene	827		13	6.6
205-99-2	Benzo[b]fluoranthene	1150		16	7.8
191-24-2	Benzo[g,h,i]perylene	619		26	5.6
207-08-9	Benzo[k]fluoranthene	835		10	4.6
218-01-9	Chrysene	833		12	5.8
53-70-3	Dibenz(a,h)anthracene	638		26	5.2
206-44-0	Fluoranthene	883		26	5.1
86-73-7	Fluorene	682		26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	647		26	9.1
90-12-0	1-Methylnaphthalene	708		51	5.6
91-57-6	2-Methylnaphthalene	705		51	9.1
91-20-3	Naphthalene	690		51	5.6
85-01-8	Phenanthrene	759		10	5.0
129-00-0	Pyrene	734		26	4.7

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042413.b\1DD24021.D
Lab Smp Id: 680-89459-A-22-C MS
Inj Date : 24-APR-2013 19:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89459-A-22-C MSD
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: 21 QC Sample: MSD
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/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.370	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.050	6.049	(1.000)	2013105	40.0000	
* 6 Acenaphthene-d10	164	7.730	7.730	(1.000)	1218867	40.0000	
* 9 Phenanthrene-d10	188	8.993	8.993	(1.000)	1994412	40.0000	
$ 13 o-Terphenyl	230	9.299	9.298	(1.034)	229455	7.63564	500
* 17 Chrysene-d12	240	11.308	11.302	(1.000)	2213259	40.0000	
* 22 Perylene-d12	264	13.135	13.123	(1.000)	2227627	40.0000	
2 Naphthalene	128	6.073	6.073	(1.004)	404914	8.09233	530
3 2-Methylnaphthalene	142	6.778	6.778	(1.120)	267131	8.27023	540
4 1-Methylnaphthalene	142	6.872	6.872	(1.136)	253447	8.30900	540
5 Acenaphthylene	152	7.601	7.600	(0.983)	402989	7.81173	510
7 Acenaphthene	154	7.759	7.759	(1.004)	233104	7.32032	480
8 Fluorene	166	8.200	8.200	(1.061)	301757	8.00226	520
10 Phenanthrene	178	9.011	9.010	(1.002)	489120	8.90354	580
11 Anthracene	178	9.052	9.052	(1.007)	442206	8.11015	530

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.193	9.193	(1.022)	346743	7.20962	470
14 Fluoranthene	202	9.998	9.997	(1.112)	585322	10.3540	670
15 Pyrene	202	10.180	10.185	(0.900)	571919	8.60494	560
16 Benzo(a)anthracene	228	11.290	11.284	(0.998)	641983	10.0326	650
18 Chrysene	228	11.332	11.331	(1.002)	586065	9.76781	640
19 Benzo(b)fluoranthene	252	12.589	12.583	(0.958)	753511	13.5410	880(R)
20 Benzo(k)fluoranthene	252	12.618	12.618	(0.961)	574202	9.79467	640
21 Benzo(a)pyrene	252	13.035	13.029	(0.992)	542366	9.70036	630
23 Indeno(1,2,3-cd)pyrene	276	14.716	14.710	(1.120)	452216	7.58514	490(M)
24 Dibenzo(a,h)anthracene	278	14.739	14.733	(1.122)	420457	7.48917	490
25 Benzo(g,h,i)perylene	276	15.151	15.150	(1.153)	417072	7.26549	470

QC Flag Legend

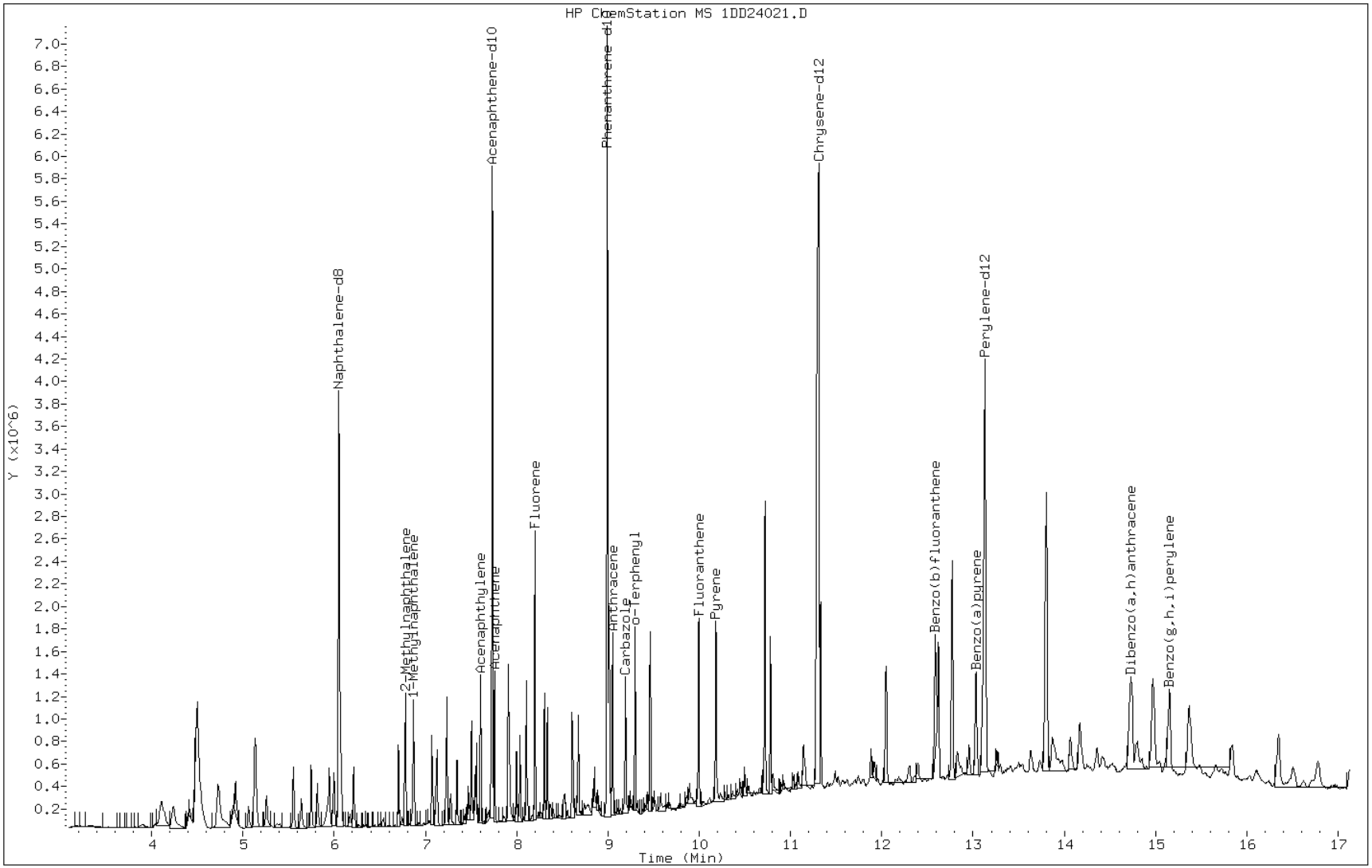
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD24021.D

Date: 24-APR-2013 19:33

Client ID: Instrument: BSMSD.i

Sample Info: 680-89459-A-22-C MSD Operator: SCC



Manual Integration Report

Data File: 1DD24021.D
Inj. Date and Time: 24-APR-2013 19:33
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/25/2013

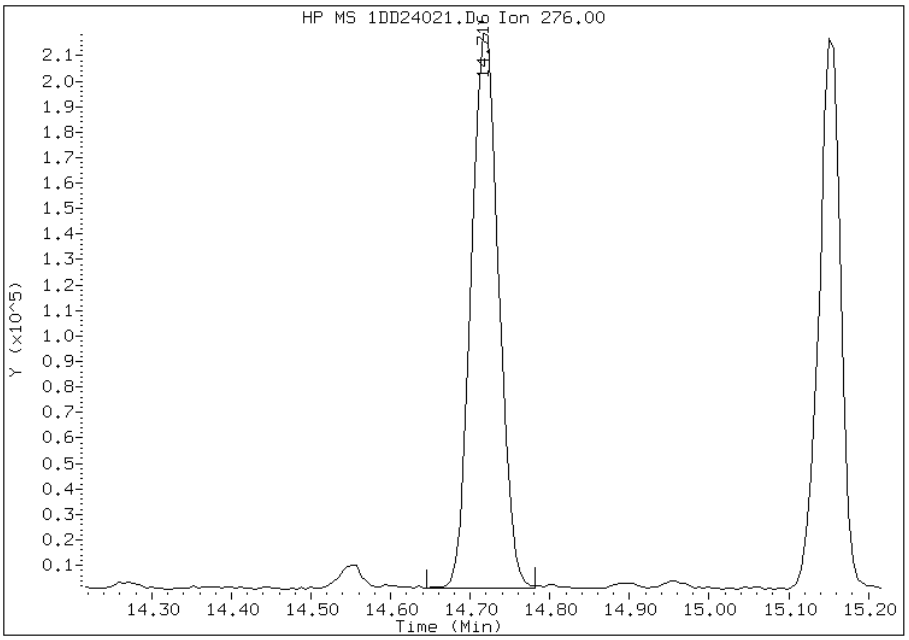
Processing Integration Results

RT: 14.72

Response: 524600

Amount: 9

Conc: 572



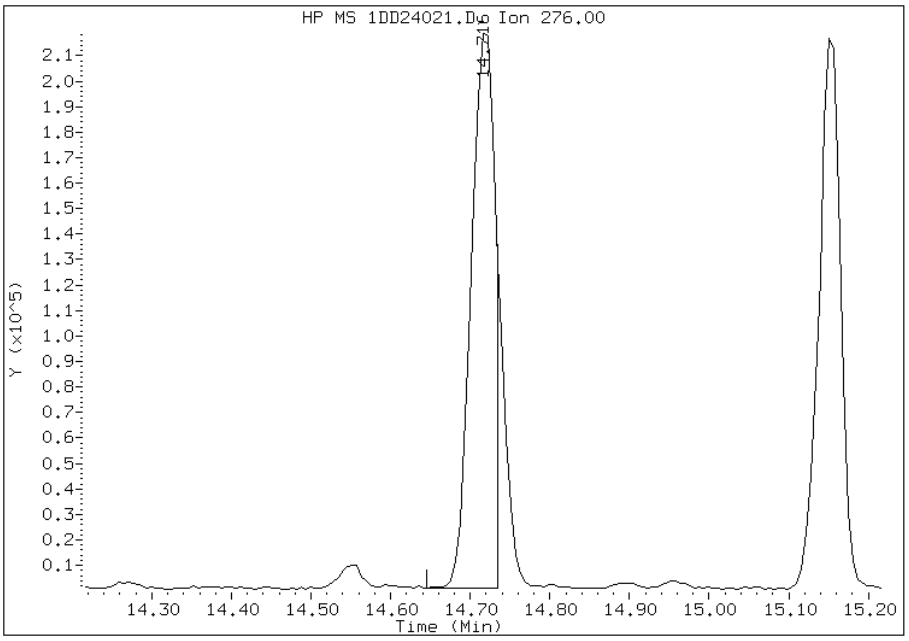
Manual Integration Results

RT: 14.72

Response: 452216

Amount: 8

Conc: 494



Manually Integrated By: cantins
Modification Date: 25-Apr-2013 13:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-89513-1

SDG No.: 68089513-1

Client Sample ID: CV0909A-GS MSD | Lab Sample ID: 680-89513-1 MSD

Matrix: Solid | Lab File ID: 1DD25009.D

Analysis Method: 8270C LL | Date Collected: 04/18/2013 10:10

Extract. Method: 3546 | Date Extracted: 04/24/2013 09:50

Sample wt/vol: 15.39(g) | Date Analyzed: 04/25/2013 16:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136899 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	J	530	110
208-96-8	Acenaphthylene	466		210	27
120-12-7	Anthracene	528		45	22
56-55-3	Benzo[a]anthracene	834		43	21
50-32-8	Benzo[a]pyrene	707		56	28
205-99-2	Benzo[b]fluoranthene	1010		65	33
191-24-2	Benzo[g,h,i]perylene	700		110	23
207-08-9	Benzo[k]fluoranthene	639		43	19
218-01-9	Chrysene	829		48	24
53-70-3	Dibenz(a,h)anthracene	569		110	22
206-44-0	Fluoranthene	1090		110	21
86-73-7	Fluorene	481		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	653		110	38
90-12-0	1-Methylnaphthalene	720		210	23
91-57-6	2-Methylnaphthalene	768		210	38
91-20-3	Naphthalene	608		210	23
85-01-8	Phenanthrene	879		43	21
129-00-0	Pyrene	883		110	20

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\1DD25009.D
Lab Smp Id: 680-89513-A-1-C MSD
Inj Date : 25-APR-2013 16:33
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-89513-A-1-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D042513.b\dFASTPAHi.m
Meth Date : 25-Apr-2013 12:42 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 9 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.390	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.045	6.049	(1.000)	2402837	40.0000	
* 6 Acenaphthene-d10	164	7.726	7.729	(1.000)	1569685	40.0000	
* 9 Phenanthrene-d10	188	8.989	8.992	(1.000)	2665216	40.0000	
$ 13 o-Terphenyl	230	9.295	9.298	(1.034)	53731	1.33800	350
* 17 Chrysene-d12	240	11.298	11.307	(1.000)	2788818	40.0000	
* 22 Perylene-d12	264	13.125	13.129	(1.000)	2771966	40.0000	
2 Naphthalene	128	6.069	6.072	(1.004)	102072	1.70907	440
3 2-Methylnaphthalene	142	6.774	6.777	(1.121)	83208	2.15824	560
4 1-Methylnaphthalene	142	6.868	6.871	(1.136)	73597	2.02145	520
5 Acenaphthylene	152	7.597	7.600	(0.983)	86895	1.30795	340
7 Acenaphthene	154	7.749	7.759	(1.003)	50658	1.23530	320
8 Fluorene	166	8.196	8.199	(1.061)	65570	1.35022	350
10 Phenanthrene	178	9.007	9.010	(1.002)	181256	2.46901	640
11 Anthracene	178	9.048	9.051	(1.007)	108069	1.48316	380

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.189	9.192	(1.022)	79641	1.23915	320(R)
14 Fluoranthene	202	9.988	9.997	(1.111)	231785	3.06817	800
15 Pyrene	202	10.176	10.185	(0.901)	207805	2.48131	640
16 Benzo(a)anthracene	228	11.280	11.284	(0.998)	188815	2.34174	610
18 Chrysene	228	11.322	11.331	(1.002)	176110	2.32942	600
19 Benzo(b)fluoranthene	252	12.567	12.582	(0.957)	196182	2.83318	740
20 Benzo(k)fluoranthene	252	12.602	12.623	(0.960)	130994	1.79569	470
21 Benzo(a)pyrene	252	13.020	13.035	(0.992)	138140	1.98550	520
23 Indeno(1,2,3-cd)pyrene	276	14.688	14.715	(1.119)	136153	1.83527	480(M)
24 Dibenzo(a,h)anthracene	278	14.712	14.744	(1.121)	111687	1.59871	420
25 Benzo(g,h,i)perylene	276	15.123	15.156	(1.152)	140560	1.96775	510

QC Flag Legend

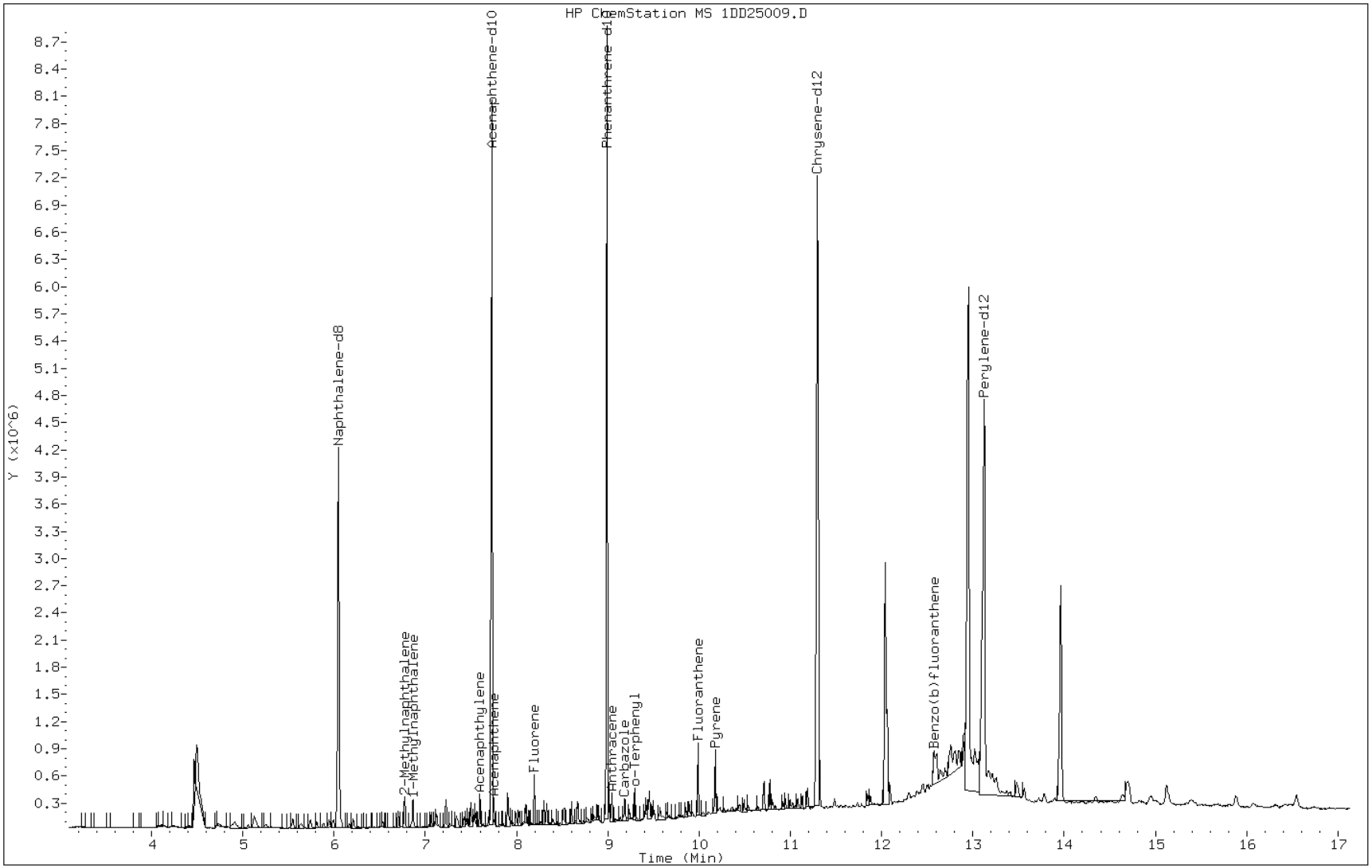
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DD25009.D

Date: 25-APR-2013 16:33

Client ID: Instrument: BSMSD.i

Sample Info: 680-89513-A-1-C MSD Operator: SCC



Manual Integration Report

Data File: 1DD25009.D
Inj. Date and Time: 25-APR-2013 16:33
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

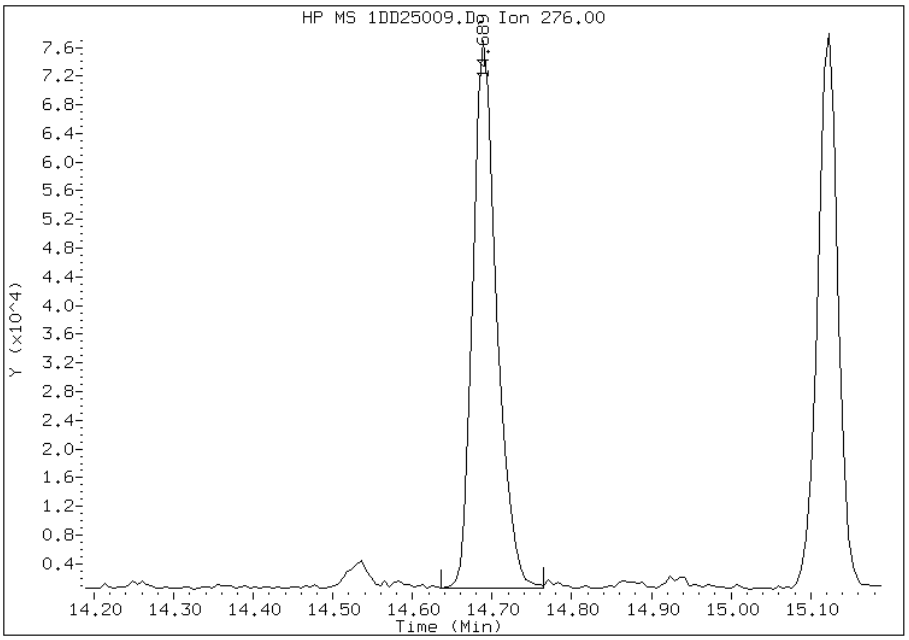
Processing Integration Results

RT: 14.69

Response: 159225

Amount: 2

Conc: 558



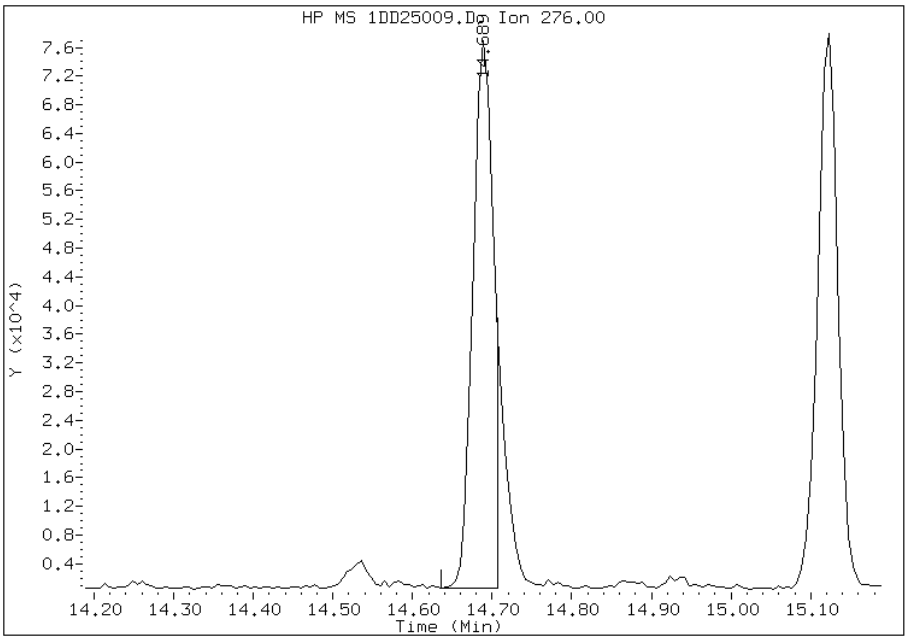
Manual Integration Results

RT: 14.69

Response: 136153

Amount: 2

Conc: 477



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 15:51
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMC5973 Start Date: 04/24/2013 09:38

Analysis Batch Number: 136792 End Date: 04/25/2013 00:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/24/2013 09:38	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 10:05	1		DB-5MS 250(um)
DFTPP 660-136792/2		04/24/2013 10:23	1		DB-5MS 250(um)
DFTPP 660-136792/3		04/24/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 12:43	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 13:01	1		DB-5MS 250(um)
DFTPP 660-136792/6		04/24/2013 13:20	1		DB-5MS 250(um)
DFTPP 660-136792/7		04/24/2013 13:40	1	1CD24006.D	DB-5MS 250(um)
ICIS 660-136792/8		04/24/2013 13:57	1	1CD24007.D	DB-5MS 250(um)
IC 660-136792/9		04/24/2013 14:16	1	1CD24008.D	DB-5MS 250(um)
IC 660-136792/10		04/24/2013 14:34	1	1CD24009.D	DB-5MS 250(um)
IC 660-136792/11		04/24/2013 14:52	1	1CD24010.D	DB-5MS 250(um)
IC 660-136792/12		04/24/2013 15:11	1	1CD24011.D	DB-5MS 250(um)
IC 660-136792/13		04/24/2013 15:29	1	1CD24012.D	DB-5MS 250(um)
IC 660-136792/14		04/24/2013 15:47	1	1CD24013.D	DB-5MS 250(um)
ICV 660-136792/15		04/24/2013 16:06	1	1CD24014.D	DB-5MS 250(um)
MB 660-136731/1-A		04/24/2013 16:40	1	1CD24015.D	DB-5MS 250(um)
LCS 660-136731/2-A		04/24/2013 16:58	1	1CD24016.D	DB-5MS 250(um)
ZZZZZ		04/24/2013 17:16	4		DB-5MS 250(um)
680-89421-A-1-B MS		04/24/2013 17:34	4	1CD24018.D	DB-5MS 250(um)
680-89421-A-1-C MSD		04/24/2013 17:52	4	1CD24019.D	DB-5MS 250(um)
ZZZZZ		04/24/2013 18:11	1		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:29	1		DB-5MS 250(um)
680-89513-2	CV0909B-GS	04/24/2013 18:47	4	1CD24022.D	DB-5MS 250(um)
680-89513-3	CV1176A-CS	04/24/2013 19:05	1	1CD24023.D	DB-5MS 250(um)
680-89513-4	CV1176A-CSD	04/24/2013 19:24	1	1CD24024.D	DB-5MS 250(um)
680-89513-5	CV1176B-CS	04/24/2013 19:42	1	1CD24025.D	DB-5MS 250(um)
680-89513-6	HP0063A-CS-SP	04/24/2013 20:00	1	1CD24026.D	DB-5MS 250(um)
680-89513-7	HP0063B-CS-SP	04/24/2013 20:19	1	1CD24027.D	DB-5MS 250(um)
680-89513-8	HP0064A-CS-SP	04/24/2013 20:37	1	1CD24028.D	DB-5MS 250(um)
680-89513-9	HP0064B-CS-SP	04/24/2013 20:55	1	1CD24029.D	DB-5MS 250(um)
680-89513-10	CV0788A-CS	04/24/2013 21:14	1	1CD24030.D	DB-5MS 250(um)
680-89513-11	CV0788B-CS	04/24/2013 21:32	1	1CD24031.D	DB-5MS 250(um)
680-89513-12	CV1150A-CS	04/24/2013 21:51	1	1CD24032.D	DB-5MS 250(um)
680-89513-13	CV1150B-CS	04/24/2013 22:09	1	1CD24033.D	DB-5MS 250(um)
680-89513-14	CV1332A-CS	04/24/2013 22:27	1	1CD24034.D	DB-5MS 250(um)
680-89513-15	CV1332B-CS	04/24/2013 22:46	1	1CD24035.D	DB-5MS 250(um)
680-89513-17	CV1334B-CS	04/24/2013 23:04	1	1CD24036.D	DB-5MS 250(um)
680-89513-18	CV0998A-CS	04/24/2013 23:23	1	1CD24037.D	DB-5MS 250(um)
680-89513-16	CV1334A-CS	04/24/2013 23:41	1	1CD24038.D	DB-5MS 250(um)
ZZZZZ		04/24/2013 23:59	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:18	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:36	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 00:55	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250(um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250(um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250(um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250(um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250(um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250(um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250(um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250(um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250(um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250(um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250(um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250(um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:51	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:13	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 20:36	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Start Date: 04/24/2013 12:06

Analysis Batch Number: 136826 End 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)
DFTPP 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)
ZZZZZ		04/24/2013 17:40	4		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:03	4		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:25	4		DB-5MS 250(um)
ZZZZZ		04/24/2013 18:48	1		DB-5MS 250(um)
680-89459-A-22-B MS		04/24/2013 19:10	1	1DD24020.D	DB-5MS 250(um)
680-89459-A-22-C MSD		04/24/2013 19:33	1	1DD24021.D	DB-5MS 250(um)
680-89513-19	CV1087A-CS	04/24/2013 19:55	4	1DD24022.D	DB-5MS 250(um)
680-89513-20	CV1087B-CS	04/24/2013 20:18	4	1DD24023.D	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 ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: BSMD5973 Start Date: 04/25/2013 11:13

Analysis Batch Number: 136899 End Date: 04/25/2013 23:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/25/2013 11:13	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 11:36	1		DB-5MS 250(um)
DFTPP 660-136899/2		04/25/2013 12:00	1	1DD25002.D	DB-5MS 250(um)
CCVIS 660-136899/3		04/25/2013 12:21	1	1DD25003.D	DB-5MS 250(um)
ZZZZZ		04/25/2013 12:46	1		DB-5MS 250(um)
MB 660-136774/1-A		04/25/2013 15:03	1	1DD25005.D	DB-5MS 250(um)
LCS 660-136774/2-A		04/25/2013 15:26	1	1DD25006.D	DB-5MS 250(um)
680-89513-1	CV0909A-GS	04/25/2013 15:48	4	1DD25007.D	DB-5MS 250(um)
680-89513-1 MS	CV0909A-GS MS	04/25/2013 16:11	4	1DD25008.D	DB-5MS 250(um)
680-89513-1 MSD	CV0909A-GS MSD	04/25/2013 16:33	4	1DD25009.D	DB-5MS 250(um)
ZZZZZ		04/25/2013 16:56	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 17:18	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 17:41	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 19:33	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 19:56	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 20:18	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 20:41	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 21:03	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 21:25	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 21:48	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 22:11	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 22:33	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 22:55	4		DB-5MS 250(um)
ZZZZZ		04/25/2013 23:18	1		DB-5MS 250(um)
ZZZZZ		04/25/2013 23:41	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/23/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136731/1		3546, 8270C LL		14.98 g	1 mL		1 mL		
LCS 660-136731/2		3546, 8270C LL		14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1 MS		3546, 8270C LL	T	14.96 g	1 mL	1 mL	1 mL		
680-89421-A-1 MSD		3546, 8270C LL	T	14.99 g	1 mL	1 mL	1 mL		
680-89513-A-2	CV0909B-GS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-89513-A-3	CV1176A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89513-A-4	CV1176A-CSD	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89513-A-5	CV1176B-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-89513-A-6	HP0063A-CS-SP	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89513-A-7	HP0063B-CS-SP	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-89513-A-8	HP0064A-CS-SP	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-89513-A-9	HP0064B-CS-SP	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-89513-A-10	CV0788A-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-89513-A-11	CV0788B-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-89513-A-12	CV1150A-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-89513-A-13	CV1150B-CS	3546, 8270C LL	T	15.31 g	1 mL		1 mL		
680-89513-A-14	CV1332A-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-89513-A-15	CV1332B-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-89513-A-17	CV1334B-CS	3546, 8270C LL	T	15.33 g	1 mL		1 mL		
680-89513-A-18	CV0998A-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-89513-A-16	CV1334A-CS	3546, 8270C LL	T	14.81 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136731 Batch Start Date: 04/23/13 10:36 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 04/23/13 15:45

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	12:00 4/23/13
Microwave Stop Time	12:35 4/23/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	GE-OTTOWA SAND 15
Person's name who did the prep	RYAN
SOP Number	TP-EX-014
Person who witnessed spiking	SAUREL
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.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, Saurel

Batch 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-22 MS		3546, 8270C LL	T	15.37 g	1 mL	1 mL	1 mL		
680-89459-A-22 MSD		3546, 8270C LL	T	15.37 g	1 mL	1 mL	1 mL		
680-89513-A-19	CV1087A-CS	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-89513-A-20	CV1087B-CS	3546, 8270C LL	T	15.19 g	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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136752 Batch Start Date: 04/23/13 14:49 Batch Analyst: Cerome, Saurel

Batch 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136774 Batch Start Date: 04/24/13 09:50 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/25/13 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179		
MB 660-136774/1		3546, 8270C LL		15.21 g	1 mL		1 mL		
LCS 660-136774/2		3546, 8270C LL		15.07 g	1 mL	1 mL	1 mL		
680-89513-A-1	CV0909A-GS	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-89513-A-1 MS	CV0909A-GS	3546, 8270C LL	T	15.39 g	1 mL	1 mL	1 mL		
680-89513-A-1 MSD	CV0909A-GS	3546, 8270C LL	T	15.39 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-M CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 72/73
Microwave Start Time	11:00 4/24/13
Microwave Stop Time	11;35 4/24/13
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	AG
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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136774 Batch Start Date: 04/24/13 09:50 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/25/13 10:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89513-1

SDG No.: 68089513-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0909A-GS	680-89513-1
CV0909B-GS	680-89513-2
CV1176A-CS	680-89513-3
CV1176A-CSD	680-89513-4
CV1176B-CS	680-89513-5
HP0063A-CS-SP	680-89513-6
HP0063B-CS-SP	680-89513-7
HP0064A-CS-SP	680-89513-8
HP0064B-CS-SP	680-89513-9
CV0788A-CS	680-89513-10
CV0788B-CS	680-89513-11
CV1150A-CS	680-89513-12
CV1150B-CS	680-89513-13
CV1332A-CS	680-89513-14
CV1332B-CS	680-89513-15
CV1334A-CS	680-89513-16
CV1334B-CS	680-89513-17
CV0998A-CS	680-89513-18
CV1087A-CS	680-89513-19
CV1087B-CS	680-89513-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89513-1

SDG Number: 68089513-1

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: 680-89513-1

SDG Number: 68089513-1

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.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/19/2013 14:12 End Date: 04/19/2013 14:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				
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ZZZZZZ			14:12																				
680-89513-9	1	T	14:12	X																			
680-89513-10	1	T	14:12	X																			
680-89513-11	1	T	14:12	X																			
680-89513-12	1	T	14:12	X																			
680-89513-13	1	T	14:12	X																			
680-89513-14	1	T	14:12	X																			
680-89513-15	1	T	14:12	X																			
680-89513-16	1	T	14:12	X																			
680-89513-17	1	T	14:12	X																			
680-89513-18	1	T	14:12	X																			
680-89513-19	1	T	14:12	X																			
680-89513-20	1	T	14:12	X																			
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				
680-89513-A-23 MS	1	T	14:12	X																			
680-89513-A-23 MSD	1	T	14:12	X																			
ZZZZZZ			14:12																				
ZZZZZZ			14:12																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/22/2013 06:21 End Date: 04/22/2013 06:21

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				
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680-89513-1	1	T	06:21	X																			
680-89513-1 MS	1	T	06:21	X																			
680-89513-1 MSD	1	T	06:21	X																			
680-89513-2	1	T	06:21	X																			
680-89513-3	1	T	06:21	X																			
680-89513-4	1	T	06:21	X																			
680-89513-6	1	T	06:21	X																			
680-89513-5	1	T	06:21	X																			
680-89513-7	1	T	06:21	X																			
680-89513-8	1	T	06:21	X																			
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/22/2013 06:21 End Date: 04/22/2013 06:21

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				
ZZZZZZ			06:21																				
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ZZZZZZ			06:21																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136656 Batch Start Date: 04/19/13 14:12 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89513-A-9	HP0064B-CS-SP	Moisture	T	16	0 g	4.35 g	3.52 g		
680-89513-A-10	CV0788A-CS	Moisture	T	17	0 g	4.48 g	3.75 g		
680-89513-A-11	CV0788B-CS	Moisture	T	18	0 g	4.20 g	3.37 g		
680-89513-A-12	CV1150A-CS	Moisture	T	19	0 g	5.17 g	4.09 g		
680-89513-A-13	CV1150B-CS	Moisture	T	20	0 g	4.87 g	3.97 g		
680-89513-A-14	CV1332A-CS	Moisture	T	21	0 g	4.98 g	4.09 g		
680-89513-A-15	CV1332B-CS	Moisture	T	22	0 g	4.89 g	4.08 g		
680-89513-A-16	CV1334A-CS	Moisture	T	23	0 g	4.68 g	3.88 g		
680-89513-A-17	CV1334B-CS	Moisture	T	24	0 g	4.55 g	3.61 g		
680-89513-A-18	CV0998A-CS	Moisture	T	25	0 g	4.43 g	3.64 g		
680-89513-A-19	CV1087A-CS	Moisture	T	26	0 g	4.67 g	3.99 g		
680-89513-A-20	CV1087B-CS	Moisture	T	27	0 g	4.56 g	3.83 g		
680-89513-A-23 MS		Moisture	T	30	0 g	5.08 g	3.89 g		
680-89513-A-23 MSD		Moisture	T	30	0 g	5.08 g	3.89 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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89513-1

SDG No.: 68089513-1

Batch Number: 136667 Batch Start Date: 04/22/13 06:21 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-89513-A-1	CV0909A-GS	Moisture	T	30	0 g	4.67 g	3.41 g		
680-89513-A-1 MS	CV0909A-GS	Moisture	T	30	0 g	4.67 g	3.41 g		
680-89513-A-1 MSD	CV0909A-GS	Moisture	T	30	0 g	4.67 g	3.41 g		
680-89513-A-2	CV0909B-GS	Moisture	T	31	0 g	4.27 g	3.03 g		
680-89513-A-3	CV1176A-CS	Moisture	T	32	0 g	4.47 g	3.70 g		
680-89513-A-4	CV1176A-CSD	Moisture	T	33	0 g	5.04 g	4.11 g		
680-89513-A-6	HP0063A-CS-SP	Moisture	T	34	0 g	4.57 g	3.98 g		
680-89513-A-5	CV1176B-CS	Moisture	T	35	0 g	4.70 g	3.39 g		
680-89513-A-7	HP0063B-CS-SP	Moisture	T	36	0 g	5.13 g	4.21 g		
680-89513-A-8	HP0064A-CS-SP	Moisture	T	37	0 g	4.85 g	3.89 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	4.22.13

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.

Shipping and Receiving Documents

Serial Number 64612

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051148-1356	AL	1	3

(b) (6)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8 Metals								REMARKS
4-18-13	1010	CV0909A-GS	G		X			X									
	1020	CV0909B-GS	G		X			X									
	0930	CV1176A-CS	C		X			X									
	0930	CV1176A-CSD	C		X			X									
	0940	CV1176B-CS	C		X			X									
	1005	HP0063A-CS-SP	C		X			X									
	1020	HP0063B-CS-SP	C		X			X									
	0915	HP0064A-CS-SP	C		X			X									
	0930	HP0064B-CS-SP	C		X			X									
	1415	CV0788A-CS	C		X			X									
	1420	CV0788B-CS	C		X			X									
	1330	CV1150A-CS	C		X			X									

680-89513 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise

Loc: 680
89513

LC

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-18-13	1730	[signature]	4/19/13	1730			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	4/19/13	0850						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
			YES ◯ NO ◯			3.7°C CU-07

TAL8240-680 (1008)

Serial Number 64613

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	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051185-1356	AL	2	3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	2L PAH	RCRA 8 Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
4-18-13	1335	CV 1150A-CS	C		X			X										
	1215	CV 1332A-CS	C		X			X										
	1225	CV 1332B-CS	C		X			X										
	1245	CV 1334A-CS	C		X			X										
	1300	CV 1334B-CS	C		X			X										
	1350	CV 0998A-CS	C		X			X	X									
	1310	CV 1087A-CS	C		X			X	X									
	1320	CV 1087B-CS	C		X			X										
	1420	CV 1197A-CS	C		X			X										
	1430	CV 1197B-CS	C		X			X										
	1220	CV 1321A-CS	C		X			X	X									
	1230	CV 1321B-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Hastin	4-18-13	1730		4/19/13	1730			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
	4/19/13	0850						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ◯ NO ◯	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
SDG Number: 68089513-1

Login Number: 89513
List Number: 1
Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: 680-89513-1
SDG Number: 68089513-1

Login Number: 89513
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/19/13 02:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-89513-1
TestAmerica Sample Delivery Group: 68089513-1
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:
4/30/2013 12:15:21 PM
Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-89513-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89513-1

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 04/19/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0909A-GS (680-89513-1), CV0909B-GS (680-89513-2), CV1176A-CS (680-89513-3), CV1176A-CSD (680-89513-4), CV1176B-CS (680-89513-5), HP0063A-CS-SP (680-89513-6), HP0063B-CS-SP (680-89513-7), HP0064A-CS-SP (680-89513-8), HP0064B-CS-SP (680-89513-9), CV0788A-CS (680-89513-10), CV0788B-CS (680-89513-11), CV1150A-CS (680-89513-12), CV1150B-CS (680-89513-13), CV1332A-CS (680-89513-14), CV1332B-CS (680-89513-15), CV1334A-CS (680-89513-16), CV1334B-CS (680-89513-17), CV0998A-CS (680-89513-18), CV1087A-CS (680-89513-19) and CV1087B-CS (680-89513-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/23/2013 and 04/24/2013 and analyzed on 04/24/2013 and 04/25/2013.

Samples CV0909A-GS (680-89513-1)[4X], CV0909B-GS (680-89513-2)[4X], CV1087A-CS (680-89513-19)[4X] and CV1087B-CS (680-89513-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Fluoranthene and Phenanthrene recovered outside the recovery criteria for the MSD of sample 680-89421-1 in batch 660-136792.

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: 680-89513-1
SDG: 68089513-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89513-1	CV0909A-GS	Solid	04/18/13 10:10	04/19/13 08:50
680-89513-2	CV0909B-GS	Solid	04/18/13 10:20	04/19/13 08:50
680-89513-3	CV1176A-CS	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-4	CV1176A-CSD	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-5	CV1176B-CS	Solid	04/18/13 09:40	04/19/13 08:50
680-89513-6	HP0063A-CS-SP	Solid	04/18/13 10:05	04/19/13 08:50
680-89513-7	HP0063B-CS-SP	Solid	04/18/13 10:20	04/19/13 08:50
680-89513-8	HP0064A-CS-SP	Solid	04/18/13 09:15	04/19/13 08:50
680-89513-9	HP0064B-CS-SP	Solid	04/18/13 09:30	04/19/13 08:50
680-89513-10	CV0788A-CS	Solid	04/18/13 14:15	04/19/13 08:50
680-89513-11	CV0788B-CS	Solid	04/18/13 14:20	04/19/13 08:50
680-89513-12	CV1150A-CS	Solid	04/18/13 13:30	04/19/13 08:50
680-89513-13	CV1150B-CS	Solid	04/18/13 13:35	04/19/13 08:50
680-89513-14	CV1332A-CS	Solid	04/18/13 12:15	04/19/13 08:50
680-89513-15	CV1332B-CS	Solid	04/18/13 12:25	04/19/13 08:50
680-89513-16	CV1334A-CS	Solid	04/18/13 12:45	04/19/13 08:50
680-89513-17	CV1334B-CS	Solid	04/18/13 13:00	04/19/13 08:50
680-89513-18	CV0998A-CS	Solid	04/18/13 13:50	04/19/13 08:50
680-89513-19	CV1087A-CS	Solid	04/18/13 13:10	04/19/13 08:50
680-89513-20	CV1087B-CS	Solid	04/18/13 13:20	04/19/13 08:50

Method Summary

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

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: 680-89513-1
SDG: 68089513-1

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV0909A-GS

Lab Sample ID: 680-89513-1
Date Collected: 04/18/13 10:10
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 73.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Anthracene	**59**		45	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[a]anthracene	**310**		43	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[a]pyrene	**250**		56	28	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[b]fluoranthene	**430**		65	33	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[g,h,i]perylene	**190**		110	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Benzo[k]fluoranthene	**130**		43	19	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Chrysene	**380**		48	24	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Dibenz(a,h)anthracene	**64**	**J**	110	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Fluoranthene	**550**		110	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Fluorene	110	U	110	22	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Indeno[1,2,3-cd]pyrene	**160**		110	38	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
1-Methylnaphthalene	**200**	**J**	210	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
2-Methylnaphthalene	**250**		210	38	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Naphthalene	**160**	**J**	210	23	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Phenanthrene	**360**		43	21	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4
Pyrene	**440**		110	20	ug/Kg	☼	04/24/13 09:50	04/25/13 15:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*50*		*30 - 130*	*04/24/13 09:50*	*04/25/13 15:48*	*4*

Client Sample ID: CV0909B-GS

Lab Sample ID: 680-89513-2
Date Collected: 04/18/13 10:20
Matrix: Solid
Date Received: 04/19/13 08:50
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	560	U	560	110	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Acenaphthylene	230	U	230	28	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Anthracene	**270**		47	24	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[a]anthracene	**900**		45	22	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[a]pyrene	**680**		59	29	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[b]fluoranthene	**920**		69	34	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[g,h,i]perylene	**490**		110	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Benzo[k]fluoranthene	**380**		45	20	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Chrysene	**840**		51	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Dibenz(a,h)anthracene	**76**	**J**	110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Fluoranthene	**1500**		110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Fluorene	**89**	**J**	110	23	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Indeno[1,2,3-cd]pyrene	**600**		110	40	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
1-Methylnaphthalene	**280**		230	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
2-Methylnaphthalene	**580**		230	40	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Naphthalene	**370**		230	25	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Phenanthrene	**1400**		45	22	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4
Pyrene	**1300**		110	21	ug/Kg	☼	04/23/13 10:36	04/24/13 18:47	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*56*		*30 - 130*	*04/23/13 10:36*	*04/24/13 18:47*	*4*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1176A-CS

Lab Sample ID: 680-89513-3
Date Collected: 04/18/13 09:30
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Anthracene	**31**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[a]anthracene	**88**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[a]pyrene	**83**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[b]fluoranthene	**170**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[g,h,i]perylene	**81**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Benzo[k]fluoranthene	**76**		9.7	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Chrysene	**130**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Dibenz(a,h)anthracene	**25**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Fluoranthene	**130**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Fluorene	**7.5**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Indeno[1,2,3-cd]pyrene	**110**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
1-Methylnaphthalene	**66**		49	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
2-Methylnaphthalene	**120**		49	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Naphthalene	**72**		49	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Phenanthrene	**100**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1
Pyrene	**120**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:05*	*1*

Client Sample ID: CV1176A-CSD

Lab Sample ID: 680-89513-4
Date Collected: 04/18/13 09:30
Matrix: Solid
Date Received: 04/19/13 08:50
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	**26**	**J**	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Acenaphthylene	49	U	49	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Anthracene	**35**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[a]anthracene	**67**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[a]pyrene	**78**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[b]fluoranthene	**120**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[g,h,i]perylene	**70**		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Benzo[k]fluoranthene	**66**		9.9	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Chrysene	**110**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Dibenz(a,h)anthracene	**24**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Fluoranthene	**98**		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Fluorene	25	U	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Indeno[1,2,3-cd]pyrene	**78**		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
1-Methylnaphthalene	**45**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
2-Methylnaphthalene	**71**		49	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Naphthalene	**31**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Phenanthrene	**94**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1
Pyrene	**77**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:24*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1176B-CS

Lab Sample ID: 680-89513-5
Date Collected: 04/18/13 09:40
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 72.1

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	☼	04/23/13 10:36	04/24/13 19:42	1
Acenaphthylene	56	U	56	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Anthracene	**57**		12	5.8	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[a]anthracene	**160**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[a]pyrene	**120**		14	7.2	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[b]fluoranthene	**190**		17	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[g,h,i]perylene	**160**		28	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Benzo[k]fluoranthene	**200**		11	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Chrysene	**210**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Dibenz(a,h)anthracene	**54**		28	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Fluoranthene	**160**		28	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Fluorene	**21**	**J**	28	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Indeno[1,2,3-cd]pyrene	**130**		28	9.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
1-Methylnaphthalene	**330**		56	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
2-Methylnaphthalene	**240**		56	9.9	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Naphthalene	**160**		56	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Phenanthrene	**430**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1
Pyrene	**200**		28	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*52*		*30 - 130*	*04/23/13 10:36*	*04/24/13 19:42*	*1*

Client Sample ID: HP0063A-CS-SP

Lab Sample ID: 680-89513-6
Date Collected: 04/18/13 10:05
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 87.1

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	23	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Acenaphthylene	46	U	46	5.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Anthracene	9.7	U	9.7	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[a]anthracene	**80**		9.2	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[a]pyrene	**80**		12	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[b]fluoranthene	**130**		14	7.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[g,h,i]perylene	**66**		23	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Benzo[k]fluoranthene	**46**		9.2	4.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Chrysene	**80**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Dibenz(a,h)anthracene	**26**		23	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Fluoranthene	**120**		23	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Fluorene	23	U	23	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Indeno[1,2,3-cd]pyrene	**96**		23	8.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
1-Methylnaphthalene	**50**		46	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
2-Methylnaphthalene	**85**		46	8.2	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Naphthalene	**40**	**J**	46	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Phenanthrene	**96**		9.2	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1
Pyrene	**96**		23	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:00*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: HP0063B-CS-SP

Lab Sample ID: 680-89513-7
Date Collected: 04/18/13 10:20
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Anthracene	**49**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[a]anthracene	**18**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[a]pyrene	**61**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[b]fluoranthene	**62**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[g,h,i]perylene	**84**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Benzo[k]fluoranthene	**21**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Chrysene	**83**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Dibenz(a,h)anthracene	**9.1**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Fluoranthene	**72**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Fluorene	**11**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Indeno[1,2,3-cd]pyrene	**90**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
1-Methylnaphthalene	**59**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
2-Methylnaphthalene	**170**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Naphthalene	**73**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Phenanthrene	**240**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1
Pyrene	**51**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:19*	*1*

Client Sample ID: HP0064A-CS-SP

Lab Sample ID: 680-89513-8
Date Collected: 04/18/13 09:15
Matrix: Solid
Date Received: 04/19/13 08:50
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	130	U	130	25	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Acenaphthylene	50	U	50	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Anthracene	**47**		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[a]anthracene	**75**		10	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[a]pyrene	**83**		13	6.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[b]fluoranthene	**100**		15	7.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[g,h,i]perylene	**79**		25	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Benzo[k]fluoranthene	**49**		10	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Chrysene	**110**		11	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Dibenz(a,h)anthracene	**41**		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Fluoranthene	**90**		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Fluorene	**5.9**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Indeno[1,2,3-cd]pyrene	**110**		25	8.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
1-Methylnaphthalene	**49**	**J**	50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
2-Methylnaphthalene	**120**		50	8.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Naphthalene	**90**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Phenanthrene	**150**		10	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1
Pyrene	**100**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:37*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: HP0064B-CS-SP

Lab Sample ID: 680-89513-9
Date Collected: 04/18/13 09:30
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Anthracene	**44**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[a]anthracene	**120**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[a]pyrene	**130**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[b]fluoranthene	**200**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[g,h,i]perylene	**99**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Benzo[k]fluoranthene	**81**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Chrysene	**120**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Dibenz(a,h)anthracene	**29**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Fluoranthene	**230**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Fluorene	**14**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
1-Methylnaphthalene	**60**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
2-Methylnaphthalene	**90**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Naphthalene	**52**		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Phenanthrene	**190**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1
Pyrene	**190**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*30 - 130*	*04/23/13 10:36*	*04/24/13 20:55*	*1*

Client Sample ID: CV0788A-CS

Lab Sample ID: 680-89513-10
Date Collected: 04/18/13 14:15
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Anthracene	**28**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[a]pyrene	**130**		12	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[b]fluoranthene	**160**		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[g,h,i]perylene	**150**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Benzo[k]fluoranthene	**81**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Dibenz(a,h)anthracene	**29**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Fluoranthene	**140**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Fluorene	**27**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
1-Methylnaphthalene	**92**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
2-Methylnaphthalene	**140**		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Naphthalene	**79**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Phenanthrene	**150**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1
Pyrene	**170**		24	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*49*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:14*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV0788B-CS

Lab Sample ID: 680-89513-11
Date Collected: 04/18/13 14:20
Matrix: Solid
Date Received: 04/19/13 08:50
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	120	U	120	25	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Acenaphthylene	50	U	50	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Anthracene	**50**		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[a]anthracene	**140**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[a]pyrene	**120**		13	6.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[b]fluoranthene	**220**		15	7.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[g,h,i]perylene	**99**		25	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Benzo[k]fluoranthene	**120**		9.9	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Chrysene	**180**		11	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Dibenz(a,h)anthracene	**18**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Fluoranthene	**190**		25	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Fluorene	**20**	**J**	25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Indeno[1,2,3-cd]pyrene	**120**		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
1-Methylnaphthalene	**78**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
2-Methylnaphthalene	**170**		50	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Naphthalene	**110**		50	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Phenanthrene	**180**		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1
Pyrene	**190**		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*60*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:32*	*1*

Client Sample ID: CV1150A-CS

Lab Sample ID: 680-89513-12
Date Collected: 04/18/13 13:30
Matrix: Solid
Date Received: 04/19/13 08:50
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	130	U	130	25	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Acenaphthylene	51	U	51	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Anthracene	**41**		11	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[a]anthracene	**140**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[a]pyrene	**120**		13	6.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[b]fluoranthene	**190**		16	7.8	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[g,h,i]perylene	**110**		25	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Benzo[k]fluoranthene	**76**		10	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Chrysene	**150**		11	5.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Dibenz(a,h)anthracene	**36**		25	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Fluoranthene	**190**		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Fluorene	**16**	**J**	25	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Indeno[1,2,3-cd]pyrene	**140**		25	9.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
1-Methylnaphthalene	**36**	**J**	51	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
2-Methylnaphthalene	**100**		51	9.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Naphthalene	**52**		51	5.6	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Phenanthrene	**150**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1
Pyrene	**190**		25	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*04/23/13 10:36*	*04/24/13 21:51*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1150B-CS

Lab Sample ID: 680-89513-13
Date Collected: 04/18/13 13:35
Matrix: Solid
Date Received: 04/19/13 08:50
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	☼	04/23/13 10:36	04/24/13 22:09	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Anthracene	**35**		10	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[a]anthracene	**110**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[a]pyrene	**120**		12	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[b]fluoranthene	**170**		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[g,h,i]perylene	**120**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Benzo[k]fluoranthene	**95**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Dibenz(a,h)anthracene	**26**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Fluoranthene	**190**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Fluorene	**8.4**	**J**	24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Indeno[1,2,3-cd]pyrene	**130**		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
1-Methylnaphthalene	**48**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
2-Methylnaphthalene	**110**		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Naphthalene	**69**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Phenanthrene	**140**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1
Pyrene	**160**		24	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:09*	*1*

Client Sample ID: CV1332A-CS

Lab Sample ID: 680-89513-14
Date Collected: 04/18/13 12:15
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Acenaphthylene	48	U	48	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Anthracene	**32**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[a]anthracene	**73**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[a]pyrene	**79**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[b]fluoranthene	**110**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[g,h,i]perylene	**61**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Benzo[k]fluoranthene	**49**		9.7	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Chrysene	**89**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Dibenz(a,h)anthracene	24	U	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Fluoranthene	**98**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Fluorene	**13**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Indeno[1,2,3-cd]pyrene	**68**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
1-Methylnaphthalene	48	U	48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
2-Methylnaphthalene	**84**		48	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Naphthalene	**27**	**J**	48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Phenanthrene	**83**		9.7	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1
Pyrene	**95**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:27*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1332B-CS

Lab Sample ID: 680-89513-15
Date Collected: 04/18/13 12:25
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 83.4

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	☼	04/23/13 10:36	04/24/13 22:46	1
Acenaphthylene	48	U	48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Anthracene	**37**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[a]anthracene	**130**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[a]pyrene	**130**		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[b]fluoranthene	**210**		15	7.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[g,h,i]perylene	**94**		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Benzo[k]fluoranthene	**87**		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Chrysene	**150**		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Dibenz(a,h)anthracene	**40**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Fluoranthene	**210**		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Fluorene	**13**	**J**	24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Indeno[1,2,3-cd]pyrene	**120**		24	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
1-Methylnaphthalene	**50**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
2-Methylnaphthalene	**100**		48	8.6	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Naphthalene	**89**		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Phenanthrene	**140**		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1
Pyrene	**150**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*30 - 130*	*04/23/13 10:36*	*04/24/13 22:46*	*1*

Client Sample ID: CV1334A-CS

Lab Sample ID: 680-89513-16
Date Collected: 04/18/13 12:45
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.9

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	☼	04/23/13 10:36	04/24/13 23:41	1
Acenaphthylene	**76**		49	6.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Anthracene	**51**		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[a]anthracene	**170**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[a]pyrene	**200**		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[b]fluoranthene	**310**		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[g,h,i]perylene	**180**		24	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Benzo[k]fluoranthene	**120**		9.8	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Chrysene	**180**		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Dibenz(a,h)anthracene	**39**		24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Fluoranthene	**250**		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Fluorene	**11**	**J**	24	5.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Indeno[1,2,3-cd]pyrene	**170**		24	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
1-Methylnaphthalene	**34**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
2-Methylnaphthalene	**71**		49	8.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Naphthalene	**31**	**J**	49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Phenanthrene	**170**		9.8	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1
Pyrene	**250**		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:41*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1334B-CS

Lab Sample ID: 680-89513-17
Date Collected: 04/18/13 13:00
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 79.3

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	☼	04/23/13 10:36	04/24/13 23:04	1
Acenaphthylene	200		49	6.2	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Anthracene	73		10	5.2	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[a]anthracene	460		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[a]pyrene	440		13	6.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[b]fluoranthene	600		15	7.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[g,h,i]perylene	350		25	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Benzo[k]fluoranthene	360		9.9	4.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Chrysene	560		11	5.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Dibenz(a,h)anthracene	89		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Fluoranthene	750		25	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Fluorene	27		25	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Indeno[1,2,3-cd]pyrene	290		25	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
1-Methylnaphthalene	75		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
2-Methylnaphthalene	88		49	8.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Naphthalene	65		49	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Phenanthrene	260		9.9	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1
Pyrene	750		25	4.6	ug/Kg	☼	04/23/13 10:36	04/24/13 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:04*	*1*

Client Sample ID: CV0998A-CS

Lab Sample ID: 680-89513-18
Date Collected: 04/18/13 13:50
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 82.2

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	☼	04/23/13 10:36	04/24/13 23:23	1
Acenaphthylene	71		48	6.0	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Anthracene	130		10	5.1	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[a]anthracene	730		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[a]pyrene	780		13	6.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[b]fluoranthene	1300		15	7.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[g,h,i]perylene	650		24	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Benzo[k]fluoranthene	480		9.6	4.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Chrysene	630		11	5.4	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Dibenz(a,h)anthracene	240		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Fluoranthene	950		24	4.8	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Fluorene	41		24	4.9	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Indeno[1,2,3-cd]pyrene	440		24	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
1-Methylnaphthalene	93		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
2-Methylnaphthalene	150		48	8.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Naphthalene	110		48	5.3	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Phenanthrene	550		9.6	4.7	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1
Pyrene	860		24	4.5	ug/Kg	☼	04/23/13 10:36	04/24/13 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*04/23/13 10:36*	*04/24/13 23:23*	*1*

Client Sample Results

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1087A-CS

Lab Sample ID: 680-89513-19
Date Collected: 04/18/13 13:10
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	460	U	460	92	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Acenaphthylene	590		180	23	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Anthracene	580		39	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[a]anthracene	600		37	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[a]pyrene	660		48	24	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[b]fluoranthene	1200		56	28	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[g,h,i]perylene	390		92	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Benzo[k]fluoranthene	470		37	17	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Chrysene	840		42	21	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Dibenz(a,h)anthracene	140		92	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Fluoranthene	1400		92	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Fluorene	63	J	92	19	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Indeno[1,2,3-cd]pyrene	330		92	33	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
1-Methylnaphthalene	170	J	180	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
2-Methylnaphthalene	140	J	180	33	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Naphthalene	140	J	180	20	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Phenanthrene	1100		37	18	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4
Pyrene	1100		92	17	ug/Kg	☼	04/23/13 14:49	04/24/13 19:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*40*		*30 - 130*	*04/23/13 14:49*	*04/24/13 19:55*	*4*

Client Sample ID: CV1087B-CS

Lab Sample ID: 680-89513-20
Date Collected: 04/18/13 13:20
Matrix: Solid
Date Received: 04/19/13 08:50
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Acenaphthylene	72	J	190	24	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Anthracene	80		40	20	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[a]anthracene	240		38	18	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[a]pyrene	210		49	24	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[b]fluoranthene	380		57	29	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[g,h,i]perylene	120		94	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Benzo[k]fluoranthene	140		38	17	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Chrysene	300		42	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Dibenz(a,h)anthracene	45	J	94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Fluoranthene	390		94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Fluorene	19	J	94	19	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Indeno[1,2,3-cd]pyrene	110		94	33	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
1-Methylnaphthalene	74	J	190	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
2-Methylnaphthalene	71	J	190	33	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Naphthalene	53	J	190	21	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Phenanthrene	240		38	18	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4
Pyrene	320		94	17	ug/Kg	☼	04/23/13 14:49	04/24/13 20:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*69*		*30 - 130*	*04/23/13 14:49*	*04/24/13 20:18*	*4*

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

Lab Sample ID: MB 660-136731/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136792 — **Prep Batch: 136731**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Fluorene	20	U	20	4.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Naphthalene	40	U	40	4.4	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/23/13 10:36	04/24/13 16:40	1
Pyrene	20	U	20	3.7	ug/Kg		04/23/13 10:36	04/24/13 16:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*30 - 130*	*04/23/13 10:36*	*04/24/13 16:40*	*1*

Lab Sample ID: LCS 660-136731/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136792 — **Prep Batch: 136731**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	668	523		ug/Kg		78	39 - 130
Acenaphthylene	668	506		ug/Kg		76	38 - 130
Anthracene	668	577		ug/Kg		86	37 - 130
Benzo[a]anthracene	668	787		ug/Kg		118	40 - 130
Benzo[a]pyrene	668	499		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	668	562		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	668	542		ug/Kg		81	32 - 130
Benzo[k]fluoranthene	668	662		ug/Kg		99	32 - 130
Chrysene	668	567		ug/Kg		85	41 - 130
Dibenz(a,h)anthracene	668	631		ug/Kg		94	27 - 130
Fluoranthene	668	617		ug/Kg		92	40 - 130
Fluorene	668	597		ug/Kg		89	40 - 130
Indeno[1,2,3-cd]pyrene	668	574		ug/Kg		86	30 - 130
1-Methylnaphthalene	668	546		ug/Kg		82	31 - 130
2-Methylnaphthalene	668	521		ug/Kg		78	33 - 130
Naphthalene	668	612		ug/Kg		91	36 - 130
Phenanthrene	668	653		ug/Kg		98	42 - 130
Pyrene	668	571		ug/Kg		85	44 - 130

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

Lab Sample ID: LCS 660-136731/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136792 — **Prep Batch: 136731**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*83*		*30 - 130*

Lab Sample ID: MB 660-136752/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136826 — **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 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136826 — **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
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

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

Lab Sample ID: LCS 660-136752/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136826 — **Prep Batch: 136752**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
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*
o-Terphenyl	*75*		*30 - 130*

Lab Sample ID: MB 660-136774/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Acenaphthylene	39	U	39	4.9	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Anthracene	8.3	U	8.3	4.1	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Benzo[a]anthracene	7.9	U	7.9	3.8	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Chrysene	8.9	U	8.9	4.4	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Fluoranthene	20	U	20	3.9	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Fluorene	20	U	20	4.0	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Naphthalene	39	U	39	4.3	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Phenanthrene	7.9	U	7.9	3.8	ug/Kg		04/24/13 09:50	04/25/13 15:03	1
Pyrene	20	U	20	3.6	ug/Kg		04/24/13 09:50	04/25/13 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*73*		*30 - 130*	*04/24/13 09:50*	*04/25/13 15:03*	*1*

Lab Sample ID: LCS 660-136774/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	338		ug/Kg		51	39 - 130
Acenaphthylene	664	354		ug/Kg		53	38 - 130
Anthracene	664	347		ug/Kg		52	37 - 130
Benzo[a]anthracene	664	371		ug/Kg		56	40 - 130
Benzo[a]pyrene	664	335		ug/Kg		50	49 - 130
Benzo[b]fluoranthene	664	389		ug/Kg		59	37 - 130
Benzo[g,h,i]perylene	664	374		ug/Kg		56	32 - 130
Benzo[k]fluoranthene	664	369		ug/Kg		56	32 - 130

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

Lab Sample ID: LCS 660-136774/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	664	343		ug/Kg		52	41 - 130
Dibenz(a,h)anthracene	664	390		ug/Kg		59	27 - 130
Fluoranthene	664	384		ug/Kg		58	40 - 130
Fluorene	664	377		ug/Kg		57	40 - 130
Indeno[1,2,3-cd]pyrene	664	376		ug/Kg		57	30 - 130
1-Methylnaphthalene	664	371		ug/Kg		56	31 - 130
2-Methylnaphthalene	664	363		ug/Kg		55	33 - 130
Naphthalene	664	343		ug/Kg		52	36 - 130
Phenanthrene	664	350		ug/Kg		53	42 - 130
Pyrene	664	329		ug/Kg		50	44 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*54*		*30 - 130*

Lab Sample ID: 680-89513-1 MS — **Client Sample ID: CV0909A-GS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	530	U	890	501	J	ug/Kg	☼	56	39 - 130
Acenaphthylene	210	U	890	547		ug/Kg	☼	61	38 - 130
Anthracene	59		890	619		ug/Kg	☼	63	37 - 130
Benzo[a]anthracene	310		890	1070		ug/Kg	☼	85	40 - 130
Benzo[a]pyrene	250		890	884		ug/Kg	☼	71	49 - 130
Benzo[b]fluoranthene	430		890	1270		ug/Kg	☼	95	37 - 130
Benzo[g,h,i]perylene	190		890	815		ug/Kg	☼	70	32 - 130
Benzo[k]fluoranthene	130		890	746		ug/Kg	☼	69	32 - 130
Chrysene	380		890	1060		ug/Kg	☼	77	41 - 130
Dibenz(a,h)anthracene	64	J	890	651		ug/Kg	☼	66	27 - 130
Fluoranthene	550		890	1520		ug/Kg	☼	109	40 - 130
Fluorene	110	U	890	567		ug/Kg	☼	64	40 - 130
Indeno[1,2,3-cd]pyrene	160		890	743		ug/Kg	☼	65	30 - 130
1-Methylnaphthalene	200	J	890	874		ug/Kg	☼	75	31 - 130
2-Methylnaphthalene	250		890	929		ug/Kg	☼	76	33 - 130
Naphthalene	160	J	890	739		ug/Kg	☼	65	36 - 130
Phenanthrene	360		890	1150		ug/Kg	☼	90	42 - 130
Pyrene	440		890	1190		ug/Kg	☼	85	44 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*59*		*30 - 130*

Lab Sample ID: 680-89513-1 MSD — **Client Sample ID: CV0909A-GS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	530	U	890	440	J	ug/Kg	☼	49	39 - 130	13	40
Acenaphthylene	210	U	890	466		ug/Kg	☼	52	38 - 130	16	40

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

Lab Sample ID: 680-89513-1 MSD — **Client Sample ID: CV0909A-GS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136899 — **Prep Batch: 136774**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	59		890	528		ug/Kg	☼	53	37 - 130	16	40
Benzo[a]anthracene	310		890	834		ug/Kg	☼	59	40 - 130	25	40
Benzo[a]pyrene	250		890	707		ug/Kg	☼	52	49 - 130	22	40
Benzo[b]fluoranthene	430		890	1010		ug/Kg	☼	65	37 - 130	23	40
Benzo[g,h,i]perylene	190		890	700		ug/Kg	☼	58	32 - 130	15	40
Benzo[k]fluoranthene	130		890	639		ug/Kg	☼	57	32 - 130	15	40
Chrysene	380		890	829		ug/Kg	☼	51	41 - 130	25	40
Dibenz(a,h)anthracene	64	J	890	569		ug/Kg	☼	57	27 - 130	13	40
Fluoranthene	550		890	1090		ug/Kg	☼	61	40 - 130	33	40
Fluorene	110	U	890	481		ug/Kg	☼	54	40 - 130	16	40
Indeno[1,2,3-cd]pyrene	160		890	653		ug/Kg	☼	55	30 - 130	13	40
1-Methylnaphthalene	200	J	890	720		ug/Kg	☼	58	31 - 130	19	40
2-Methylnaphthalene	250		890	768		ug/Kg	☼	58	33 - 130	19	40
Naphthalene	160	J	890	608		ug/Kg	☼	51	36 - 130	19	40
Phenanthrene	360		890	879		ug/Kg	☼	59	42 - 130	27	40
Pyrene	440		890	883		ug/Kg	☼	50	44 - 130	30	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*54*		*30 - 130*

GC/MS Semi VOA

Prep Batch: 136731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-2	CV0909B-GS	Total/NA	Solid	3546	
680-89513-3	CV1176A-CS	Total/NA	Solid	3546	
680-89513-4	CV1176A-CSD	Total/NA	Solid	3546	
680-89513-5	CV1176B-CS	Total/NA	Solid	3546	
680-89513-6	HP0063A-CS-SP	Total/NA	Solid	3546	
680-89513-7	HP0063B-CS-SP	Total/NA	Solid	3546	
680-89513-8	HP0064A-CS-SP	Total/NA	Solid	3546	
680-89513-9	HP0064B-CS-SP	Total/NA	Solid	3546	
680-89513-10	CV0788A-CS	Total/NA	Solid	3546	
680-89513-11	CV0788B-CS	Total/NA	Solid	3546	
680-89513-12	CV1150A-CS	Total/NA	Solid	3546	
680-89513-13	CV1150B-CS	Total/NA	Solid	3546	
680-89513-14	CV1332A-CS	Total/NA	Solid	3546	
680-89513-15	CV1332B-CS	Total/NA	Solid	3546	
680-89513-16	CV1334A-CS	Total/NA	Solid	3546	
680-89513-17	CV1334B-CS	Total/NA	Solid	3546	
680-89513-18	CV0998A-CS	Total/NA	Solid	3546	
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136731/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-19	CV1087A-CS	Total/NA	Solid	3546	
680-89513-20	CV1087B-CS	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	

Prep Batch: 136774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-1	CV0909A-GS	Total/NA	Solid	3546	
680-89513-1 MS	CV0909A-GS	Total/NA	Solid	3546	
680-89513-1 MSD	CV0909A-GS	Total/NA	Solid	3546	
LCS 660-136774/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136774/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-2	CV0909B-GS	Total/NA	Solid	8270C LL	136731
680-89513-3	CV1176A-CS	Total/NA	Solid	8270C LL	136731
680-89513-4	CV1176A-CSD	Total/NA	Solid	8270C LL	136731
680-89513-5	CV1176B-CS	Total/NA	Solid	8270C LL	136731
680-89513-6	HP0063A-CS-SP	Total/NA	Solid	8270C LL	136731
680-89513-7	HP0063B-CS-SP	Total/NA	Solid	8270C LL	136731
680-89513-8	HP0064A-CS-SP	Total/NA	Solid	8270C LL	136731
680-89513-9	HP0064B-CS-SP	Total/NA	Solid	8270C LL	136731
680-89513-10	CV0788A-CS	Total/NA	Solid	8270C LL	136731
680-89513-11	CV0788B-CS	Total/NA	Solid	8270C LL	136731
680-89513-12	CV1150A-CS	Total/NA	Solid	8270C LL	136731
680-89513-13	CV1150B-CS	Total/NA	Solid	8270C LL	136731
680-89513-14	CV1332A-CS	Total/NA	Solid	8270C LL	136731
680-89513-15	CV1332B-CS	Total/NA	Solid	8270C LL	136731

GC/MS Semi VOA (Continued)

Analysis Batch: 136792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-16	CV1334A-CS	Total/NA	Solid	8270C LL	136731
680-89513-17	CV1334B-CS	Total/NA	Solid	8270C LL	136731
680-89513-18	CV0998A-CS	Total/NA	Solid	8270C LL	136731
LCS 660-136731/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136731
MB 660-136731/1-A	Method Blank	Total/NA	Solid	8270C LL	136731

Analysis Batch: 136826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-19	CV1087A-CS	Total/NA	Solid	8270C LL	136752
680-89513-20	CV1087B-CS	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

Analysis Batch: 136899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-1	CV0909A-GS	Total/NA	Solid	8270C LL	136774
680-89513-1 MS	CV0909A-GS	Total/NA	Solid	8270C LL	136774
680-89513-1 MSD	CV0909A-GS	Total/NA	Solid	8270C LL	136774
LCS 660-136774/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136774
MB 660-136774/1-A	Method Blank	Total/NA	Solid	8270C LL	136774

General Chemistry

Analysis Batch: 136656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-9	HP0064B-CS-SP	Total/NA	Solid	Moisture	
680-89513-10	CV0788A-CS	Total/NA	Solid	Moisture	
680-89513-11	CV0788B-CS	Total/NA	Solid	Moisture	
680-89513-12	CV1150A-CS	Total/NA	Solid	Moisture	
680-89513-13	CV1150B-CS	Total/NA	Solid	Moisture	
680-89513-14	CV1332A-CS	Total/NA	Solid	Moisture	
680-89513-15	CV1332B-CS	Total/NA	Solid	Moisture	
680-89513-16	CV1334A-CS	Total/NA	Solid	Moisture	
680-89513-17	CV1334B-CS	Total/NA	Solid	Moisture	
680-89513-18	CV0998A-CS	Total/NA	Solid	Moisture	
680-89513-19	CV1087A-CS	Total/NA	Solid	Moisture	
680-89513-20	CV1087B-CS	Total/NA	Solid	Moisture	

Analysis Batch: 136667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89513-1	CV0909A-GS	Total/NA	Solid	Moisture	
680-89513-1 MS	CV0909A-GS	Total/NA	Solid	Moisture	
680-89513-1 MSD	CV0909A-GS	Total/NA	Solid	Moisture	
680-89513-2	CV0909B-GS	Total/NA	Solid	Moisture	
680-89513-3	CV1176A-CS	Total/NA	Solid	Moisture	
680-89513-4	CV1176A-CSD	Total/NA	Solid	Moisture	
680-89513-5	CV1176B-CS	Total/NA	Solid	Moisture	
680-89513-6	HP0063A-CS-SP	Total/NA	Solid	Moisture	
680-89513-7	HP0063B-CS-SP	Total/NA	Solid	Moisture	
680-89513-8	HP0064A-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV0909A-GS — Lab Sample ID: 680-89513-1

Date Collected: 04/18/13 10:10 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 73.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136774	04/24/13 09:50	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	136899	04/25/13 15:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: CV0909B-GS — Lab Sample ID: 680-89513-2

Date Collected: 04/18/13 10:20 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 71.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	136792	04/24/13 18:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: CV1176A-CS — Lab Sample ID: 680-89513-3

Date Collected: 04/18/13 09:30 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 19:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: CV1176A-CSD — Lab Sample ID: 680-89513-4

Date Collected: 04/18/13 09:30 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 19:24	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: CV1176B-CS — Lab Sample ID: 680-89513-5

Date Collected: 04/18/13 09:40 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 72.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 19:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: HP0063A-CS-SP — Lab Sample ID: 680-89513-6

Date Collected: 04/18/13 10:05 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 20:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: HP0063B-CS-SP — Lab Sample ID: 680-89513-7

Date Collected: 04/18/13 10:20 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 20:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: HP0064A-CS-SP — Lab Sample ID: 680-89513-8

Date Collected: 04/18/13 09:15 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 20:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136667	04/22/13 06:21	AG	TAL TAM

Client Sample ID: HP0064B-CS-SP — Lab Sample ID: 680-89513-9

Date Collected: 04/18/13 09:30 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 20:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV0788A-CS — Lab Sample ID: 680-89513-10

Date Collected: 04/18/13 14:15 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 83.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 21:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV0788B-CS — Lab Sample ID: 680-89513-11

Date Collected: 04/18/13 14:20 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 21:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1150A-CS — Lab Sample ID: 680-89513-12

Date Collected: 04/18/13 13:30 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 21:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1150B-CS — Lab Sample ID: 680-89513-13

Date Collected: 04/18/13 13:35 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 22:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1332A-CS — Lab Sample ID: 680-89513-14

Date Collected: 04/18/13 12:15 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 22:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1332B-CS — Lab Sample ID: 680-89513-15

Date Collected: 04/18/13 12:25 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 22:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

Client Sample ID: CV1334A-CS — Lab Sample ID: 680-89513-16

Date Collected: 04/18/13 12:45 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 23:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1334B-CS — Lab Sample ID: 680-89513-17

Date Collected: 04/18/13 13:00 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 23:04	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV0998A-CS — Lab Sample ID: 680-89513-18

Date Collected: 04/18/13 13:50 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 82.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136731	04/23/13 10:36	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	136792	04/24/13 23:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1087A-CS — Lab Sample ID: 680-89513-19

Date Collected: 04/18/13 13:10 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 85.4**

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 19:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Client Sample ID: CV1087B-CS — Lab Sample ID: 680-89513-20

Date Collected: 04/18/13 13:20 — **Matrix: Solid**
Date Received: 04/19/13 08:50 — **Percent Solids: 84.0**

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 20:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136656	04/19/13 14:12	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 64612

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal	20051148-1356	AL	1	3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: TL PAH; RCRA 8 Metals

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	TL PAH	RCRA 8 Metals	REMARKS
4-18-13	1010	CV0909A-GS	G		X			X		
	1020	CV0909B-GS	G		X			X		
	0930	CV1176A-CS	C		X			X		
	0930	CV1176A-CSD	C		X			X		
	0940	CV1176B-CS	C		X			X		
	1005	HP0063A-CS-SP	C		X			X		
	1020	HP0063B-CS-SP	C		X			X		
	0915	HP0064A-CS-SP	C		X			X		
	0930	HP0064B-CS-SP	C		X			X		
	1415	CV0788A-CS	C		X			X		
	1420	CV0788B-CS	C		X			X		
	1330	CV1150A-CS	C		X			X		

NUMBER OF CONTAINERS SUBMITTED

680-89513 Login
PM: Harvey, Lisa
Company: Oneida Total Integrated Enterprise

Loc: 680
89513

LC

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-18-13	1730	[signature]	4/19/13	1730			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	4/19/13	0850						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
			YES ◯ NO ◯			3.7°C CU-07

TAL8240-680 (1008)

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4/30/2013

Serial Number 64613

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.: 20051148-13556

PROJECT LOCATION (STATE): AL

PAGE 2 OF 3

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)

STANDARD REPORT DELIVERY ◯

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ◯

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	12 PAH	RCRA 8 Metals									REMARKS
4-18-13	1335	CV 1150A-CS	C		X			X										
	1215	CV 1332A-CS	C		X			X										
	1225	CV 1332B-CS	C		X			X										
	1245	CV 1334A-CS	C		X			X										
	1300	CV 1334B-CS	C		X			X										
	1350	CV 0998A-CS	C		X			X	X									
	1310	CV 1087A-CS	C		X			X	X									
	1320	CV 1087B-CS	C		X			X										
	1420	CV 1197A-CS	C		X			X										
	1430	CV 1197B-CS	C		X			X										
	1220	CV 1321A-CS	C		X			X	X									
	1230	CV 1321B-CS	C		X			X										

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-18-13	1730	[signature]	4/19/13	1730			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	4/19/13	0850						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ◯ NO ◯	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL8240-680 (1008)

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4/30/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89513-1
SDG Number: 68089513-1

Login Number: 89513
List Number: 1
Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
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: 680-89513-1
SDG Number: 68089513-1

Login Number: 89513
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/19/13 02:29 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

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.

Certification Summary

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

TestAmerica Job ID: 680-89513-1
SDG: 68089513-1

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