

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

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

Project No: 15268508.20000
 Job ID.: 680-88348-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/13/2013
 Date: 03/28/2013
 Date: 04/08/2013

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?			✓		

¹ Independent technical reviewer
 URS Group, Inc.
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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 was not collected during the week of 03/11/2013. Blank contamination will be evaluated based on method blank results.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> CV0021A-CS (680-88348-1) and CV0021A-CSD (680-88348-2) CV1241A-CS (680-88348-9) and CV1241A-CSD (680-88348-10) FM0170A-CS (680-88348-14) and FM0170A-CSD (680-88348-15) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		See Attachment B, Field Duplicate Evaluation.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample analysis. A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> Initial Calibration: 02/22/2013, instrument BSMC5973 ICV: 02/22/2013 @ 14:06 CCV: 03/21/2013 @ 11:50 CCV: 03/25/2013 @ 12:33 Initial Calibration: 02/22/2013, instrument BSMD5973 ICV: 02/22/2013 @ 14:51 CCV: 03/26/2013 @ 10:32 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatiles target compounds 		✓		ICV of 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> • Chrysene @ -20.6%D (Lab: ≤ 35, Project: ≤ 20). 79.5%R • Benzo(a)pyrene @ -21.7%D (Lab: ≤ 35, Project: ≤ 20). 78.5%R A negative bias is indicated by the ICV percent difference and both analytes were detected in associated samples ² ; therefore, J-flag detected chrysene and benzo(a)pyrene results.	J
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)?	✓			<ul style="list-style-type: none"> • Prep Batch 135556: 680-88298-21 (Batch sample), MS/MSD • Prep Batch 135570: 680-88348-4 (CV0093A-CS), MS/MSD 	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R < 10: J and R Flag positive and ND results, respectively • MS and MSD %R > 10 and $< LCL$: J-Flag positive and UJ- 		✓		CV0093A-CS (680-88348-4): <ul style="list-style-type: none"> • Chrysene @ 21 & 24%R (41-130). J Flag result. • Phenanthrene @ 29 & 34%R (42-130). J Flag result. 	J

² 680-88348-1, -3, -4, and -8 through -20

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R <10, then J-flag positive and R-flag non-detect associated sample results • If %R >UCL, then J-flag positive results • %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
<p>Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

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: 680-88348-1
SDG: 68088348-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88348-1	CV0021A-CS	Solid	03/13/13 09:10	03/15/13 10:03
680-88348-2	CV0021A-CSD	Solid	03/13/13 09:10	03/15/13 10:03
680-88348-3	CV0021B-CS	Solid	03/13/13 09:23	03/15/13 10:03
680-88348-4	CV0093A-CS	Solid	03/13/13 10:32	03/15/13 10:03
680-88348-5	CV0093B-CS	Solid	03/13/13 10:40	03/15/13 10:03
680-88348-6	CV0093C-CS	Solid	03/13/13 10:51	03/15/13 10:03
680-88348-7	CV0154A-CS	Solid	03/13/13 09:45	03/15/13 10:03
680-88348-8	CV0154B-CS	Solid	03/13/13 09:56	03/15/13 10:03
680-88348-9	CV1241A-CS	Solid	03/13/13 10:35	03/15/13 10:03
680-88348-10	CV1241A-CSD	Solid	03/13/13 10:35	03/15/13 10:03
680-88348-11	CV1241B-CS	Solid	03/13/13 10:45	03/15/13 10:03
680-88348-12	CV1241C-CS	Solid	03/13/13 10:55	03/15/13 10:03
680-88348-13	CV1241D-GS	Solid	03/13/13 11:05	03/15/13 10:03
680-88348-14	FM0170A-CS	Solid	03/13/13 09:40	03/15/13 10:03
680-88348-15	FM0170A-CSD	Solid	03/13/13 09:40	03/15/13 10:03
680-88348-16	FM0170B-CS	Solid	03/13/13 09:50	03/15/13 10:03
680-88348-17	FM0306A-CS	Solid	03/13/13 09:00	03/15/13 10:03
680-88348-18	FM0124A-CS	Solid	03/13/13 12:20	03/15/13 10:03
680-88348-19	FM0124B-CS	Solid	03/13/13 12:30	03/15/13 10:03
680-88348-20	FM0124C-CS	Solid	03/13/13 12:40	03/15/13 10:03

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0021A-CS (680-88348-1)	RL	CV0021A-CSD (80-88348-2)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	34	210	48	210	µg/kg	1050	NA	14	420	None, absolute difference ≤ 2x Avg RL
Anthracene	50	43	63	44	µg/kg	217.5	NA	13	87	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	240	41	310	42	µg/kg	207.5	25	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	250	54	250	54	µg/kg	270	NA	0	108	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	370	63	420	64	µg/kg	317.5	13	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	180	100	210	100	µg/kg	500	NA	30	200	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	150	41	160	42	µg/kg	207.5	NA	10	83	None, absolute difference ≤ 2x Avg RL
Chrysene	260	46	320	47	µg/kg	232.5	21	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	65	100	59	100	µg/kg	500	NA	6	200	None, absolute difference ≤ 2x Avg RL
Fluoranthene	390	100	560	100	µg/kg	500	NA	170	200	None, absolute difference ≤ 2x Avg RL
Fluorene	23	100	25	100	µg/kg	500	NA	2	200	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	170	100	180	100	µg/kg	500	NA	10	200	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	100	210	190	210	µg/kg	1050	NA	90	420	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	110	210	200	210	µg/kg	1050	NA	90	420	None, absolute difference ≤ 2x Avg RL
Naphthalene	99	210	140	210	µg/kg	1050	NA	41	420	None, absolute difference ≤ 2x Avg RL
Phenanthrene	260	41	390	42	µg/kg	207.5	40	NA	NA	None, RPD ≤ 50%
Pyrene	420	100	460	100	µg/kg	500	NA	40	200	None, absolute difference ≤ 2x Avg RL

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

Analyte	CV1241A-CS (680-88348-9)	RL	CV1241A-CSD (680-88348-10)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		66	21	62	µg/kg	320	NA	21	128	None, absolute difference ≤ 2x Avg RL
Anthracene	51	14	27	13	µg/kg	67.5	NA	24	27	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	110	13	99	12	µg/kg	62.5	11	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	66	17	59	16	µg/kg	82.5	NA	7	33	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	170	20	180	19	µg/kg	97.5	6	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	85	33	75	31	µg/kg	160	NA	10	64	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	38	13	41	12	µg/kg	62.5	NA	3	25	None, absolute difference ≤ 2x Avg RL
Chrysene	170	15	190	14	µg/kg	72.5	11	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	38	33	26	31	µg/kg	160	NA	12	64	None, absolute difference ≤ 2x Avg RL
Fluoranthene	190	33	160	31	µg/kg	160	NA	30	64	None, absolute difference ≤ 2x Avg RL
Fluorene	27	33	31	31	µg/kg	160	NA	4	64	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	53	33	44	31	µg/kg	160	NA	9	64	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	100	66	110	62	µg/kg	320	NA	10	128	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	150	66	120	62	µg/kg	320	NA	30	128	None, absolute difference ≤ 2x Avg RL
Naphthalene	170	66	210	62	µg/kg	320	NA	40	128	None, absolute difference ≤ 2x Avg RL
Phenanthrene	260	13	200	12	µg/kg	62.5	26	NA	NA	None, RPD ≤ 50%
Pyrene	190	33	160	31	µg/kg	160	NA	30	64	None, absolute difference ≤ 2x Avg RL

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

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0170A-CS (680-88348-14)	RL	FM0170A-CSD (680-88348-15)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	36	53	19	63	µg/kg	290	NA	17	116	None, absolute difference ≤ 2x Avg RL
Anthracene	34	11	51	13	µg/kg	60	NA	17	24	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	200	11	160	13	µg/kg	60	22	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	150	14	110	16	µg/kg	75	31	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	310	16	260	19	µg/kg	87.5	18	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	130	27	92	32	µg/kg	147.5	NA	38	59	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	140	11	65	13	µg/kg	60	73	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	320	12	290	14	µg/kg	65	10	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	43	27	42	32	µg/kg	147.5	NA	1	59	None, absolute difference ≤ 2x Avg RL
Fluoranthene	260	27	270	32	µg/kg	147.5	4	NA	NA	None, RPD ≤ 50%
Fluorene	25	27	30	32	µg/kg	147.5	NA	5	59	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	110	27	56	32	µg/kg	147.5	NA	54	59	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	110	53	310	63	µg/kg	290	NA	200	116	J/UJ-flag, absolute difference > 2x Avg RL
2-Methylnaphthalene	110	53	470	63	µg/kg	290	NA	360	116	J/UJ-flag, absolute difference > 2x Avg RL
Naphthalene	160	53	460	63	µg/kg	290	NA	300	116	J/UJ-flag, absolute difference > 2x Avg RL
Phenanthrene	270	11	310	13	µg/kg	60	14	NA	NA	None, RPD ≤ 50%
Pyrene	270	27	270	32	µg/kg	147.5	0	NA	NA	None, RPD ≤ 50%

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

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Job ID: 680-88348-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88348-1

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 03/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0021A-CS (680-88348-1), CV0021A-CSD (680-88348-2), CV0021B-CS (680-88348-3), CV0093A-CS (680-88348-4), CV0093B-CS (680-88348-5), CV0093C-CS (680-88348-6), CV0154A-CS (680-88348-7), CV0154B-CS (680-88348-8), CV1241A-CS (680-88348-9), CV1241A-CSD (680-88348-10), CV1241B-CS (680-88348-11), CV1241C-CS (680-88348-12), CV1241D-GS (680-88348-13), FM0170A-CS (680-88348-14), FM0170A-CSD (680-88348-15), FM0170B-CS (680-88348-16), FM0306A-CS (680-88348-17), FM0124A-CS (680-88348-18), FM0124B-CS (680-88348-19) and FM0124C-CS (680-88348-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/20/2013 and analyzed on 03/21/2013, 03/25/2013 and 03/26/2013.

Samples CV0021A-CS (680-88348-1)[4X], CV0021A-CSD (680-88348-2)[4X], CV0093A-CS (680-88348-4)[4X] and FM0124A-CS (680-88348-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0093A-CS (680-88348-4) in batch 660-135643.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0021A-CS

Lab Sample ID: 680-88348-1

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Acenaphthylene	34	J	210	26	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Anthracene	50		43	22	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Benzo[a]anthracene	240		41	20	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Benzo[a]pyrene	250	J	54	27	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Benzo[b]fluoranthene	370		63	31	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Benzo[k]fluoranthene	150		41	19	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Chrysene	260	J	46	23	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Fluoranthene	390		100	21	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Fluorene	23	J	100	21	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Indeno[1,2,3-cd]pyrene	170		100	37	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
1-Methylnaphthalene	100	J	210	23	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
2-Methylnaphthalene	110	J	210	37	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Naphthalene	99	J	210	23	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Phenanthrene	260		41	20	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4
Pyrene	420		100	19	ug/Kg	☐	03/20/13 08:31	03/25/13 21:31	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		30 - 130	03/20/13 08:31	03/25/13 21:31	4

Client Sample ID: CV0021A-CSD

Lab Sample ID: 680-88348-2

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Acenaphthylene	48	J	210	26	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Anthracene	63		44	22	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Benzo[a]anthracene	310		42	20	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Benzo[a]pyrene	250		54	27	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Benzo[b]fluoranthene	420		64	32	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Benzo[g,h,i]perylene	210		100	23	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Benzo[k]fluoranthene	160		42	19	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Chrysene	320		47	23	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Fluoranthene	560		100	21	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Fluorene	25	J	100	21	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Indeno[1,2,3-cd]pyrene	180		100	37	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
1-Methylnaphthalene	190	J	210	23	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
2-Methylnaphthalene	200	J	210	37	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Naphthalene	140	J	210	23	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Phenanthrene	390		42	20	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4
Pyrene	460		100	19	ug/Kg	☐	03/20/13 08:31	03/26/13 12:47	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130	03/20/13 08:31	03/26/13 12:47	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0021B-CS

Lab Sample ID: 680-88348-3

Date Collected: 03/13/13 09:23

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Acenaphthylene	15	J	51	6.4	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Anthracene	50		11	5.4	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Benzo[a]anthracene	260		10	5.0	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Benzo[a]pyrene	260	J	13	6.7	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Benzo[b]fluoranthene	390		16	7.9	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Benzo[g,h,i]perylene	200		26	5.7	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Benzo[k]fluoranthene	160		10	4.6	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Chrysene	270	J	12	5.8	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Dibenz(a,h)anthracene	58		26	5.3	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Fluoranthene	610		26	5.1	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Fluorene	29		26	5.3	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Indeno[1,2,3-cd]pyrene	160		26	9.1	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
1-Methylnaphthalene	30	J	51	5.7	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
2-Methylnaphthalene	35	J	51	9.1	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Naphthalene	30	J	51	5.7	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Phenanthrene	360		10	5.0	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Pyrene	590		26	4.8	ug/Kg	☐	03/20/13 08:31	03/25/13 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		30 - 130				03/20/13 08:31	03/25/13 22:08	1

Client Sample ID: CV0093A-CS

Lab Sample ID: 680-88348-4

Date Collected: 03/13/13 10:32

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 69.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Acenaphthylene	230	U	230	29	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Anthracene	42	J	49	24	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Benzo[a]anthracene	240		46	23	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Benzo[a]pyrene	160	J	60	30	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Benzo[b]fluoranthene	350		71	35	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Benzo[g,h,i]perylene	200		120	26	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Benzo[k]fluoranthene	93		46	21	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Chrysene	550	f J	52	26	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Dibenz(a,h)anthracene	120		120	24	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Fluoranthene	300		120	23	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Fluorene	47	J	120	24	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Indeno[1,2,3-cd]pyrene	110	J	120	41	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
1-Methylnaphthalene	400		230	26	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
2-Methylnaphthalene	510		230	41	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Naphthalene	210	J	230	26	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Phenanthrene	540	f J	46	23	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Pyrene	290		120	22	ug/Kg	☐	03/20/13 10:22	03/21/13 13:42	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	49		30 - 130				03/20/13 10:22	03/21/13 13:42	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0093B-CS

Lab Sample ID: 680-88348-5

Date Collected: 03/13/13 10:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Anthracene	10	J	11	5.7	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Benzo[a]anthracene	42		11	5.3	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Benzo[a]pyrene	36		14	7.0	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Benzo[b]fluoranthene	63		16	8.2	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Benzo[g,h,i]perylene	31		27	5.9	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Benzo[k]fluoranthene	18		11	4.9	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Chrysene	69		12	6.1	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Dibenz(a,h)anthracene	9.7	J	27	5.5	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Fluoranthene	62		27	5.4	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Fluorene	27	U	27	5.5	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Indeno[1,2,3-cd]pyrene	24	J	27	9.6	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
1-Methylnaphthalene	41	J	54	5.9	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
2-Methylnaphthalene	41	J	54	9.6	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Naphthalene	31	J	54	5.9	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Phenanthrene	57		11	5.3	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
Pyrene	54		27	5.0	ug/Kg	☐	03/20/13 08:31	03/26/13 13:55	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	58		30 - 130				03/20/13 08:31	03/26/13 13:55	1

Client Sample ID: CV0093C-CS

Lab Sample ID: 680-88348-6

Date Collected: 03/13/13 10:51

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Anthracene	11	U	11	5.5	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Benzo[a]anthracene	30		11	5.1	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Benzo[a]pyrene	21		14	6.9	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Benzo[b]fluoranthene	39		16	8.0	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Benzo[g,h,i]perylene	18	J	26	5.8	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Benzo[k]fluoranthene	12		11	4.7	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Chrysene	32		12	5.9	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Dibenz(a,h)anthracene	6.2	J	26	5.4	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Fluoranthene	41		26	5.3	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Fluorene	26	U	26	5.4	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Indeno[1,2,3-cd]pyrene	13	J	26	9.4	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
1-Methylnaphthalene	8.9	J	53	5.8	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
2-Methylnaphthalene	9.6	J	53	9.4	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Naphthalene	10	J	53	5.8	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Phenanthrene	28		11	5.1	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
Pyrene	35		26	4.9	ug/Kg	☐	03/20/13 08:31	03/26/13 12:02	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	57		30 - 130				03/20/13 08:31	03/26/13 12:02	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0154A-CS

Lab Sample ID: 680-88348-7

Date Collected: 03/13/13 09:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 71.1

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	27	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Acenaphthylene	55	U	55	6.8	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Anthracene	12		11	5.7	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Benzo[a]anthracene	120		11	5.3	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Benzo[a]pyrene	150		14	7.1	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Benzo[b]fluoranthene	280		17	8.3	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Benzo[g,h,i]perylene	180		27	6.0	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Benzo[k]fluoranthene	90		11	4.9	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Chrysene	150		12	6.1	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Dibenz(a,h)anthracene	55		27	5.6	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Fluoranthene	120		27	5.5	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Fluorene	5.8	J	27	5.6	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Indeno[1,2,3-cd]pyrene	140		27	9.7	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
1-Methylnaphthalene	29	J	55	6.0	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
2-Methylnaphthalene	42	J	55	9.7	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Naphthalene	50	J	55	6.0	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Phenanthrene	74		11	5.3	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Pyrene	110		27	5.0	ug/Kg	☆	03/20/13 08:31	03/26/13 12:25	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	70		30 - 130				03/20/13 08:31	03/26/13 12:25	1	

Client Sample ID: CV0154B-CS

Lab Sample ID: 680-88348-8

Date Collected: 03/13/13 09:56

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 73.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	130	U	130	27	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Acenaphthylene	24	J	54	6.7	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Anthracene	37		11	5.7	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Benzo[a]anthracene	270		11	5.3	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Benzo[a]pyrene	300	J	14	7.0	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Benzo[b]fluoranthene	650		16	8.2	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Benzo[g,h,i]perylene	340		27	5.9	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Benzo[k]fluoranthene	270		11	4.9	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Chrysene	490	J	12	6.1	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Dibenz(a,h)anthracene	120		27	5.5	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Fluoranthene	330		27	5.4	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Fluorene	40		27	5.5	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Indeno[1,2,3-cd]pyrene	260		27	9.6	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
1-Methylnaphthalene	160		54	5.9	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
2-Methylnaphthalene	170		54	9.6	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Naphthalene	170		54	5.9	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Phenanthrene	300		11	5.3	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Pyrene	310		27	5.0	ug/Kg	☆	03/20/13 10:22	03/21/13 14:55	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	63		30 - 130				03/20/13 10:22	03/21/13 14:55	1	

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241A-CS

Lab Sample ID: 680-88348-9

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 59.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Anthracene	51		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[a]anthracene	110		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[a]pyrene	66	J	17	8.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[b]fluoranthene	170		20	10	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[g,h,i]perylene	85		33	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[k]fluoranthene	38		13	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Chrysene	170	J	15	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Dibenz(a,h)anthracene	38		33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Fluoranthene	190		33	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Fluorene	27	J	33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Indeno[1,2,3-cd]pyrene	53		33	12	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
1-Methylnaphthalene	100		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
2-Methylnaphthalene	150		66	12	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Naphthalene	170		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Phenanthrene	260		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Pyrene	190		33	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	50		30 - 130				03/20/13 10:22	03/21/13 15:14	1

Client Sample ID: CV1241A-CSD

Lab Sample ID: 680-88348-10

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Acenaphthylene	21	J	62	7.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Anthracene	27		13	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[a]anthracene	99		12	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[a]pyrene	59	J	16	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[b]fluoranthene	180		19	9.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[g,h,i]perylene	75		31	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[k]fluoranthene	41		12	5.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Chrysene	190	J	14	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Dibenz(a,h)anthracene	26	J	31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Fluoranthene	160		31	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Fluorene	31		31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Indeno[1,2,3-cd]pyrene	44		31	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
1-Methylnaphthalene	110		62	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
2-Methylnaphthalene	120		62	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Naphthalene	210		62	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Phenanthrene	200		12	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Pyrene	160		31	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	54		30 - 130				03/20/13 10:22	03/21/13 15:32	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241B-CS

Lab Sample ID: 680-88348-11

Date Collected: 03/13/13 10:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 66.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Acenaphthylene	60	J	59	7.4	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Anthracene	34		12	6.2	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Benzo[a]anthracene	140		12	5.8	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Benzo[a]pyrene	120	J	15	7.7	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Benzo[b]fluoranthene	330		18	9.0	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Benzo[g,h,i]perylene	140		30	6.5	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Benzo[k]fluoranthene	91		12	5.3	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Chrysene	250	J	13	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Dibenz(a,h)anthracene	39		30	6.1	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Fluoranthene	180		30	5.9	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Fluorene	40		30	6.1	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Indeno[1,2,3-cd]pyrene	94		30	11	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
1-Methylnaphthalene	120		59	6.5	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
2-Methylnaphthalene	140		59	11	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Naphthalene	200		59	6.5	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Phenanthrene	220		12	5.8	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
Pyrene	170		30	5.5	ug/Kg	☐	03/20/13 10:22	03/21/13 15:51	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	57		30 - 130				03/20/13 10:22	03/21/13 15:51	1

Client Sample ID: CV1241C-CS

Lab Sample ID: 680-88348-12

Date Collected: 03/13/13 10:55

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Acenaphthylene	9.3	J	61	7.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Anthracene	31		13	6.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Benzo[a]anthracene	150		12	5.9	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Benzo[a]pyrene	170	J	16	7.9	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Benzo[b]fluoranthene	340		18	9.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Benzo[g,h,i]perylene	160		30	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Benzo[k]fluoranthene	150		12	5.5	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Chrysene	230	J	14	6.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Dibenz(a,h)anthracene	54		30	6.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Fluoranthene	210		30	6.1	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Fluorene	22	J	30	6.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Indeno[1,2,3-cd]pyrene	130		30	11	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
1-Methylnaphthalene	110		61	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
2-Methylnaphthalene	100		61	11	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Naphthalene	130		61	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Phenanthrene	190		12	5.9	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
Pyrene	180		30	5.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:09	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	63		30 - 130				03/20/13 10:22	03/21/13 16:09	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241D-GS

Lab Sample ID: 680-88348-13

Date Collected: 03/13/13 11:05

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 54.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	37	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Acenaphthylene	74	U	74	9.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Anthracene	10	J	15	7.7	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Benzo[a]anthracene	38		15	7.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Benzo[a]pyrene	14	J	19	9.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Benzo[b]fluoranthene	27		22	11	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Benzo[g,h,i]perylene	20	J	37	8.1	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Benzo[k]fluoranthene	12	J	15	6.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Chrysene	23	J	17	8.3	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Dibenz(a,h)anthracene	9.5	J	37	7.5	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Fluoranthene	32	J	37	7.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Fluorene	37	U	37	7.5	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Indeno[1,2,3-cd]pyrene	37	U	37	13	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
1-Methylnaphthalene	30	J	74	8.1	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
2-Methylnaphthalene	35	J	74	13	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Naphthalene	44	J	74	8.1	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Phenanthrene	37		15	7.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Pyrene	37		37	6.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				03/20/13 10:22	03/21/13 16:28	1

Client Sample ID: FM0170A-CS

Lab Sample ID: 680-88348-14

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Anthracene	34		11	5.6	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Benzo[a]anthracene	200		11	5.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Benzo[a]pyrene	150	J	14	6.9	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Benzo[b]fluoranthene	310		16	8.1	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Benzo[g,h,i]perylene	130		27	5.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Benzo[k]fluoranthene	140	J	11	4.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Chrysene	320	J	12	6.0	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Dibenz(a,h)anthracene	43		27	5.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Fluoranthene	260		27	5.3	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Fluorene	25	J	27	5.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Indeno[1,2,3-cd]pyrene	110		27	9.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
1-Methylnaphthalene	110	J	53	5.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
2-Methylnaphthalene	110	J	53	9.4	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Naphthalene	160	J	53	5.8	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Phenanthrene	270		11	5.2	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Pyrene	270		27	4.9	ug/Kg	☐	03/20/13 10:22	03/21/13 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				03/20/13 10:22	03/21/13 16:46	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0170A-CSD

Lab Sample ID: 680-88348-15

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Acenaphthylene	19	J	63	7.9	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Anthracene	51		13	6.6	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Benzo[a]anthracene	160		13	6.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Benzo[a]pyrene	110	J	16	8.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Benzo[b]fluoranthene	260		19	9.6	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Benzo[g,h,i]perylene	92		32	7.0	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Benzo[k]fluoranthene	65	J	13	5.7	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Chrysene	290	J	14	7.1	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Dibenz(a,h)anthracene	42		32	6.5	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Fluoranthene	270		32	6.3	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Fluorene	30	J	32	6.5	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Indeno[1,2,3-cd]pyrene	56		32	11	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
1-Methylnaphthalene	310	J	63	7.0	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
2-Methylnaphthalene	470	J	63	11	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Naphthalene	460	J	63	7.0	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Phenanthrene	310		13	6.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Pyrene	270		32	5.9	ug/Kg	☆	03/20/13 10:22	03/21/13 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	42		30 - 130				03/20/13 10:22	03/21/13 17:05	1

Client Sample ID: FM0170B-CS

Lab Sample ID: 680-88348-16

Date Collected: 03/13/13 09:50

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Acenaphthylene	51	J	66	8.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Anthracene	110		14	6.9	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Benzo[a]anthracene	270		13	6.4	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Benzo[a]pyrene	180	J	17	8.6	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Benzo[b]fluoranthene	380		20	10	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Benzo[g,h,i]perylene	120		33	7.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Benzo[k]fluoranthene	120		13	5.9	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Chrysene	400	J	15	7.4	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Dibenz(a,h)anthracene	57		33	6.8	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Fluoranthene	390		33	6.6	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Fluorene	44		33	6.8	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Indeno[1,2,3-cd]pyrene	88		33	12	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
1-Methylnaphthalene	250		66	7.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
2-Methylnaphthalene	240		66	12	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Naphthalene	270		66	7.2	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Phenanthrene	420		13	6.4	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Pyrene	400		33	6.1	ug/Kg	☆	03/20/13 10:22	03/21/13 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	42		30 - 130				03/20/13 10:22	03/21/13 17:23	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0306A-CS

Lab Sample ID: 680-88348-17

Date Collected: 03/13/13 09:00

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Anthracene	72		14	6.9	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Benzo[a]anthracene	100		13	6.4	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Benzo[a]pyrene	53	J	17	8.5	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Benzo[b]fluoranthene	120		20	10	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Benzo[g,h,i]perylene	34		33	7.2	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Benzo[k]fluoranthene	93		13	5.9	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Chrysene	200	J	15	7.4	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Dibenz(a,h)anthracene	18	J	33	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Fluoranthene	220		33	6.6	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Fluorene	54		33	6.7	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Indeno[1,2,3-cd]pyrene	47		33	12	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
1-Methylnaphthalene	130		66	7.2	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
2-Methylnaphthalene	140		66	12	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Naphthalene	330		66	7.2	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Phenanthrene	250		13	6.4	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
Pyrene	160		33	6.1	ug/Kg	☐	03/20/13 10:22	03/21/13 17:42	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	51		30 - 130				03/20/13 10:22	03/21/13 17:42	1

Client Sample ID: FM0124A-CS

Lab Sample ID: 680-88348-18

Date Collected: 03/13/13 12:20

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 55.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	710	U	710	140	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Acenaphthylene	280	U	280	36	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Anthracene	50	J	60	30	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Benzo[a]anthracene	170		57	28	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Benzo[a]pyrene	66	J	74	37	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Benzo[b]fluoranthene	220		87	43	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Benzo[g,h,i]perylene	120	J	140	31	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Benzo[k]fluoranthene	93		57	26	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Chrysene	320	J	64	32	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Dibenz(a,h)anthracene	34	J	140	29	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Fluoranthene	230		140	28	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Fluorene	53	J	140	29	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Indeno[1,2,3-cd]pyrene	70	J	140	50	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
1-Methylnaphthalene	220	J	280	31	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
2-Methylnaphthalene	240	J	280	50	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Naphthalene	210	J	280	31	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Phenanthrene	360		57	28	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
Pyrene	240		140	26	ug/Kg	☐	03/20/13 10:22	03/21/13 18:00	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	58		30 - 130				03/20/13 10:22	03/21/13 18:00	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0124B-CS

Lab Sample ID: 680-88348-19

Date Collected: 03/13/13 12:30

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Acenaphthylene	11	J	61	7.7	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Anthracene	36		13	6.4	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Benzo[a]anthracene	120		12	6.0	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Benzo[a]pyrene	99	J	16	8.0	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Benzo[b]fluoranthene	190		19	9.3	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Benzo[g,h,i]perylene	60		31	6.7	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Benzo[k]fluoranthene	58		12	5.5	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Chrysene	170	J	14	6.9	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Dibenz(a,h)anthracene	27	J	31	6.3	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Fluoranthene	250		31	6.1	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Fluorene	26	J	31	6.3	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Indeno[1,2,3-cd]pyrene	44		31	11	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
1-Methylnaphthalene	75		61	6.7	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
2-Methylnaphthalene	110		61	11	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Naphthalene	80		61	6.7	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Phenanthrene	220		12	6.0	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
Pyrene	220		31	5.7	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:18	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	50		30 - 130				03/20/13 10:22	03/21/13 18:18	1

Client Sample ID: FM0124C-CS

Lab Sample ID: 680-88348-20

Date Collected: 03/13/13 12:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Acenaphthylene	14	J	63	7.8	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Anthracene	12	J	13	6.6	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Benzo[a]anthracene	51		13	6.1	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Benzo[a]pyrene	31	J	16	8.1	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Benzo[b]fluoranthene	85		19	9.6	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Benzo[g,h,i]perylene	19	J	31	6.9	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Benzo[k]fluoranthene	25		13	5.6	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Chrysene	82	J	14	7.1	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Dibenz(a,h)anthracene	18	J	31	6.4	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Fluoranthene	80		31	6.3	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Fluorene	10	J	31	6.4	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Indeno[1,2,3-cd]pyrene	16	J	31	11	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
1-Methylnaphthalene	49	J	63	6.9	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
2-Methylnaphthalene	57	J	63	11	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Naphthalene	77		63	6.9	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Phenanthrene	82		13	6.1	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
Pyrene	81		31	5.8	ug/Kg	⊛	03/20/13 10:22	03/21/13 18:37	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	38		30 - 130				03/20/13 10:22	03/21/13 18:37	1

TestAmerica Savannah

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

ANALYTICAL REPORT

Job Number: 680-88348-1

SDG Number: 68088348-1

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
3/27/2013 12:43 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/27/2013

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: 680-88348-1

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 03/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0021A-CS (680-88348-1), CV0021A-CSD (680-88348-2), CV0021B-CS (680-88348-3), CV0093A-CS (680-88348-4), CV0093B-CS (680-88348-5), CV0093C-CS (680-88348-6), CV0154A-CS (680-88348-7), CV0154B-CS (680-88348-8), CV1241A-CS (680-88348-9), CV1241A-CSD (680-88348-10), CV1241B-CS (680-88348-11), CV1241C-CS (680-88348-12), CV1241D-GS (680-88348-13), FM0170A-CS (680-88348-14), FM0170A-CSD (680-88348-15), FM0170B-CS (680-88348-16), FM0306A-CS (680-88348-17), FM0124A-CS (680-88348-18), FM0124B-CS (680-88348-19) and FM0124C-CS (680-88348-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/20/2013 and analyzed on 03/21/2013, 03/25/2013 and 03/26/2013.

Samples CV0021A-CS (680-88348-1)[4X], CV0021A-CSD (680-88348-2)[4X], CV0093A-CS (680-88348-4)[4X] and FM0124A-CS (680-88348-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0093A-CS (680-88348-4) in batch 660-135643.

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: 680-88348-1

Sdg Number: 68088348-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88348-1	CV0021A-CS	Solid	03/13/2013 0910	03/15/2013 1003
680-88348-2	CV0021A-CSD	Solid	03/13/2013 0910	03/15/2013 1003
680-88348-3	CV0021B-CS	Solid	03/13/2013 0923	03/15/2013 1003
680-88348-4	CV0093A-CS	Solid	03/13/2013 1032	03/15/2013 1003
680-88348-4MS	CV0093A-CS	Solid	03/13/2013 1032	03/15/2013 1003
680-88348-4MSD	CV0093A-CS	Solid	03/13/2013 1032	03/15/2013 1003
680-88348-5	CV0093B-CS	Solid	03/13/2013 1040	03/15/2013 1003
680-88348-6	CV0093C-CS	Solid	03/13/2013 1051	03/15/2013 1003
680-88348-7	CV0154A-CS	Solid	03/13/2013 0945	03/15/2013 1003
680-88348-8	CV0154B-CS	Solid	03/13/2013 0956	03/15/2013 1003
680-88348-9	CV1241A-CS	Solid	03/13/2013 1035	03/15/2013 1003
680-88348-10	CV1241A-CSD	Solid	03/13/2013 1035	03/15/2013 1003
680-88348-11	CV1241B-CS	Solid	03/13/2013 1045	03/15/2013 1003
680-88348-12	CV1241C-CS	Solid	03/13/2013 1055	03/15/2013 1003
680-88348-13	CV1241D-GS	Solid	03/13/2013 1105	03/15/2013 1003
680-88348-14	FM0170A-CS	Solid	03/13/2013 0940	03/15/2013 1003
680-88348-15	FM0170A-CSD	Solid	03/13/2013 0940	03/15/2013 1003
680-88348-16	FM0170B-CS	Solid	03/13/2013 0950	03/15/2013 1003
680-88348-17	FM0306A-CS	Solid	03/13/2013 0900	03/15/2013 1003
680-88348-18	FM0124A-CS	Solid	03/13/2013 1220	03/15/2013 1003
680-88348-19	FM0124B-CS	Solid	03/13/2013 1230	03/15/2013 1003
680-88348-20	FM0124C-CS	Solid	03/13/2013 1240	03/15/2013 1003

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1
Sdg Number: 68088348-1

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: 680-88348-1

Sdg Number: 68088348-1

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: 680-88348-1

Sdg Number: 68088348-1

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.

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

Sdg Number: 68088348-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135556					
LCS 660-135556/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135556/1-A	Method Blank	T	Solid	3546	
680-88298-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88298-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88348-1	CV0021A-CS	T	Solid	3546	
680-88348-2	CV0021A-CSD	T	Solid	3546	
680-88348-3	CV0021B-CS	T	Solid	3546	
680-88348-5	CV0093B-CS	T	Solid	3546	
680-88348-6	CV0093C-CS	T	Solid	3546	
680-88348-7	CV0154A-CS	T	Solid	3546	
Prep Batch: 660-135570					
LCS 660-135570/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135570/1-A	Method Blank	T	Solid	3546	
680-88348-4	CV0093A-CS	T	Solid	3546	
680-88348-4MS	Matrix Spike	T	Solid	3546	
680-88348-4MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88348-8	CV0154B-CS	T	Solid	3546	
680-88348-9	CV1241A-CS	T	Solid	3546	
680-88348-10	CV1241A-CSD	T	Solid	3546	
680-88348-11	CV1241B-CS	T	Solid	3546	
680-88348-12	CV1241C-CS	T	Solid	3546	
680-88348-13	CV1241D-GS	T	Solid	3546	
680-88348-14	FM0170A-CS	T	Solid	3546	
680-88348-15	FM0170A-CSD	T	Solid	3546	
680-88348-16	FM0170B-CS	T	Solid	3546	
680-88348-17	FM0306A-CS	T	Solid	3546	
680-88348-18	FM0124A-CS	T	Solid	3546	
680-88348-19	FM0124B-CS	T	Solid	3546	
680-88348-20	FM0124C-CS	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

Sdg Number: 68088348-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135643					
LCS 660-135556/2-A	Lab Control Sample	T	Solid	8270C LL	660-135556
MB 660-135556/1-A	Method Blank	T	Solid	8270C LL	660-135556
LCS 660-135570/2-A	Lab Control Sample	T	Solid	8270C LL	660-135570
MB 660-135570/1-A	Method Blank	T	Solid	8270C LL	660-135570
680-88298-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135556
680-88298-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135556
680-88348-4	CV0093A-CS	T	Solid	8270C LL	660-135570
680-88348-4MS	Matrix Spike	T	Solid	8270C LL	660-135570
680-88348-4MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135570
680-88348-8	CV0154B-CS	T	Solid	8270C LL	660-135570
680-88348-9	CV1241A-CS	T	Solid	8270C LL	660-135570
680-88348-10	CV1241A-CSD	T	Solid	8270C LL	660-135570
680-88348-11	CV1241B-CS	T	Solid	8270C LL	660-135570
680-88348-12	CV1241C-CS	T	Solid	8270C LL	660-135570
680-88348-13	CV1241D-GS	T	Solid	8270C LL	660-135570
680-88348-14	FM0170A-CS	T	Solid	8270C LL	660-135570
680-88348-15	FM0170A-CSD	T	Solid	8270C LL	660-135570
680-88348-16	FM0170B-CS	T	Solid	8270C LL	660-135570
680-88348-17	FM0306A-CS	T	Solid	8270C LL	660-135570
680-88348-18	FM0124A-CS	T	Solid	8270C LL	660-135570
680-88348-19	FM0124B-CS	T	Solid	8270C LL	660-135570
680-88348-20	FM0124C-CS	T	Solid	8270C LL	660-135570
Analysis Batch:660-135753					
680-88348-1	CV0021A-CS	T	Solid	8270C LL	660-135556
680-88348-3	CV0021B-CS	T	Solid	8270C LL	660-135556
Analysis Batch:660-135792					
680-88348-2	CV0021A-CSD	T	Solid	8270C LL	660-135556
680-88348-5	CV0093B-CS	T	Solid	8270C LL	660-135556
680-88348-6	CV0093C-CS	T	Solid	8270C LL	660-135556
680-88348-7	CV0154A-CS	T	Solid	8270C LL	660-135556

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

Sdg Number: 68088348-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135482					
MB 660-135482/1	Method Blank	T	Solid	Moisture	
680-88348-5	CV0093B-CS	T	Solid	Moisture	
680-88348-6	CV0093C-CS	T	Solid	Moisture	
680-88348-7	CV0154A-CS	T	Solid	Moisture	
680-88348-8	CV0154B-CS	T	Solid	Moisture	
680-88348-9	CV1241A-CS	T	Solid	Moisture	
680-88348-10	CV1241A-CSD	T	Solid	Moisture	
680-88348-11	CV1241B-CS	T	Solid	Moisture	
680-88348-12	CV1241C-CS	T	Solid	Moisture	
680-88348-13	CV1241D-GS	T	Solid	Moisture	
680-88348-14	FM0170A-CS	T	Solid	Moisture	
680-88348-15	FM0170A-CSD	T	Solid	Moisture	
680-88348-16	FM0170B-CS	T	Solid	Moisture	
680-88348-17	FM0306A-CS	T	Solid	Moisture	
680-88348-18	FM0124A-CS	T	Solid	Moisture	
680-88348-19	FM0124B-CS	T	Solid	Moisture	
680-88348-20	FM0124C-CS	T	Solid	Moisture	
680-88348-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88348-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135489					
LCS 660-135489/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135489/16	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88348-1	CV0021A-CS	T	Solid	Moisture	
680-88348-2	CV0021A-CSD	T	Solid	Moisture	
680-88348-3	CV0021B-CS	T	Solid	Moisture	
680-88348-4	CV0093A-CS	T	Solid	Moisture	
680-88348-4MS	Matrix Spike	T	Solid	Moisture	
680-88348-4MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab Sample ID: IC 660-134776/3 Client Sample ID: _____Date Analyzed: 02/22/13 11:57 Lab File ID: 1CB22003.D GC Column: DB-5MS ID: 250 (um)

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1

SDG No.: 68088348-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

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

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

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

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

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

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

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

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

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: CCVIS 660-135643/4 Client Sample ID: _____Date Analyzed: 03/21/13 11:50 Lab File ID: 1CC21004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 12:08

Lab Sample ID: LCS 660-135570/2-A Client Sample ID: _____Date Analyzed: 03/21/13 13:05 Lab File ID: 1CC21008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/21/13 14:31

Lab Sample ID: 680-88348-4 Client Sample ID: CV0093A-CSDate Analyzed: 03/21/13 13:42 Lab File ID: 1CC21010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/21/13 14:33
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 14:33
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 14:34
Dibenz(a,h)anthracene	10.08	Baseline Event	cantins	03/21/13 14:33

Lab Sample ID: 680-88348-4 MS Client Sample ID: CV0093A-CS MSDate Analyzed: 03/21/13 14:00 Lab File ID: 1CC21011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/21/13 14:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: 680-88348-4 MSD Client Sample ID: CV0093A-CS MSDDate Analyzed: 03/21/13 14:19 Lab File ID: 1CC21012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/21/13 14:37

Lab Sample ID: 680-88348-8 Client Sample ID: CV0154B-CSDate Analyzed: 03/21/13 14:55 Lab File ID: 1CC21014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:11
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:12
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:12
Dibenz(a,h)anthracene	10.08	Baseline Event	cantins	03/25/13 11:12

Lab Sample ID: 680-88348-9 Client Sample ID: CV1241A-CSDate Analyzed: 03/21/13 15:14 Lab File ID: 1CC21015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.57	Analyte Misidentified by the Data System	cantins	03/25/13 11:14
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:14

Lab Sample ID: 680-88348-10 Client Sample ID: CV1241A-CSDDate Analyzed: 03/21/13 15:32 Lab File ID: 1CC21016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:16
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:16
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: 680-88348-11 Client Sample ID: CV1241B-CSDate Analyzed: 03/21/13 15:51 Lab File ID: 1CC21017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/25/13 11:18

Lab Sample ID: 680-88348-12 Client Sample ID: CV1241C-CSDate Analyzed: 03/21/13 16:09 Lab File ID: 1CC21018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:19
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:19
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:19

Lab Sample ID: 680-88348-13 Client Sample ID: CV1241D-GSDate Analyzed: 03/21/13 16:28 Lab File ID: 1CC21019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[g,h,i]perylene	10.42	Baseline Event	cantins	03/25/13 11:22

Lab Sample ID: 680-88348-14 Client Sample ID: FM0170A-CSDate Analyzed: 03/21/13 16:46 Lab File ID: 1CC21020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:23
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:23
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:24
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/25/13 11:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: 680-88348-15 Client Sample ID: FM0170A-CSDDate Analyzed: 03/21/13 17:05 Lab File ID: 1CC21021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:24
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:24
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/25/13 11:25

Lab Sample ID: 680-88348-16 Client Sample ID: FM0170B-CSDate Analyzed: 03/21/13 17:23 Lab File ID: 1CC21022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:26
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/25/13 11:26
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/25/13 11:27

Lab Sample ID: 680-88348-17 Client Sample ID: FM0306A-CSDate Analyzed: 03/21/13 17:42 Lab File ID: 1CC21023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:28
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:28
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/25/13 11:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: 680-88348-18 Client Sample ID: FM0124A-CSDate Analyzed: 03/21/13 18:00 Lab File ID: 1CC21024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/25/13 11:30
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:30
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:32
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/25/13 11:31
Benzo[g,h,i]perylene	10.42	Baseline Event	cantins	03/25/13 11:31

Lab Sample ID: 680-88348-19 Client Sample ID: FM0124B-CSDate Analyzed: 03/21/13 18:18 Lab File ID: 1CC21025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/25/13 11:35
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:36
Dibenz(a,h)anthracene	10.09	Baseline Event	cantins	03/25/13 11:35
Benzo[g,h,i]perylene	10.43	Baseline Event	cantins	03/25/13 11:35

Lab Sample ID: 680-88348-20 Client Sample ID: FM0124C-CSDate Analyzed: 03/21/13 18:37 Lab File ID: 1CC21026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	03/25/13 11:37
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 11:37

Lab Sample ID: LCS 660-135556/2-A Client Sample ID: _____Date Analyzed: 03/21/13 20:46 Lab File ID: 1CC21033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:13

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1

SDG No.: 68088348-1

Instrument ID: BSMC5973 Analysis Batch Number: 135643

Lab Sample ID: 680-88298-A-21-B MS Client Sample ID: _____

Date Analyzed: 03/21/13 21:59 Lab File ID: 1CC21037.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:28

Lab Sample ID: 680-88298-A-21-C MSD Client Sample ID: _____

Date Analyzed: 03/21/13 22:17 Lab File ID: 1CC21038.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/25/13 12:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973 Analysis Batch Number: 135753Lab Sample ID: CCVIS 660-135753/3 Client Sample ID: _____Date Analyzed: 03/25/13 12:33 Lab File ID: 1CC25003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/25/13 12:50

Lab Sample ID: 680-88348-1 Client Sample ID: CV0021A-CSDate Analyzed: 03/25/13 21:31 Lab File ID: 1CC25032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/26/13 10:33
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/26/13 10:33
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/26/13 10:34
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	03/26/13 10:34
Benzo[g,h,i]perylene	10.41	Baseline Event	cantins	03/26/13 10:34

Lab Sample ID: 680-88348-3 Client Sample ID: CV0021B-CSDate Analyzed: 03/25/13 22:08 Lab File ID: 1CC25034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	03/26/13 10:36
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/26/13 10:36
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/26/13 10:36
Benzo[g,h,i]perylene	10.41	Baseline Event	cantins	03/26/13 10:36

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: IC 660-134781/3 Client Sample ID: _____Date Analyzed: 02/22/13 12:13 Lab File ID: 1DB22003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	14.97	Baseline Event	cantins	02/22/13 14:57
Benzo[g,h,i]perylene	15.38	Baseline Event	cantins	02/22/13 14:57

Lab Sample ID: IC 660-134781/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:35 Lab File ID: 1DB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.93	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:58 Lab File ID: 1DB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:58

Lab Sample ID: IC 660-134781/6 Client Sample ID: _____Date Analyzed: 02/22/13 13:21 Lab File ID: 1DB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.94	Split Peak	cantins	02/22/13 14:59

Lab Sample ID: IC 660-134781/9 Client Sample ID: _____Date Analyzed: 02/22/13 14:28 Lab File ID: 1DB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.00	Split Peak	cantins	02/22/13 15:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMD5973 Analysis Batch Number: 134781Lab Sample ID: ICV 660-134781/10 Client Sample ID: _____Date Analyzed: 02/22/13 14:51 Lab File ID: 1DB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.32	Baseline Event	cantins	02/22/13 15:27

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMD5973 Analysis Batch Number: 135792Lab Sample ID: CCVIS 660-135792/3 Client Sample ID: _____Date Analyzed: 03/26/13 10:32 Lab File ID: 1DC26003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.89	Split Peak	cantins	03/26/13 10:52

Lab Sample ID: 680-88348-6 Client Sample ID: CV0093C-CSDate Analyzed: 03/26/13 12:02 Lab File ID: 1DC26007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	03/26/13 13:16

Lab Sample ID: 680-88348-7 Client Sample ID: CV0154A-CSDate Analyzed: 03/26/13 12:25 Lab File ID: 1DC26008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	03/26/13 13:17

Lab Sample ID: 680-88348-2 Client Sample ID: CV0021A-CSDDate Analyzed: 03/26/13 12:47 Lab File ID: 1DC26009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	03/26/13 13:18

Lab Sample ID: 680-88348-5 Client Sample ID: CV0093B-CSDate Analyzed: 03/26/13 13:55 Lab File ID: 1DC26012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.86	Split Peak	cantins	03/26/13 14:26

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.: 680-88348-1

SDG No.: 68088348-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0021A-CS	680-88348-1	78
CV0021A-CSD	680-88348-2	64
CV0021B-CS	680-88348-3	78
CV0093A-CS	680-88348-4	49
CV0093B-CS	680-88348-5	58
CV0093C-CS	680-88348-6	57
CV0154A-CS	680-88348-7	70
CV0154B-CS	680-88348-8	63
CV1241A-CS	680-88348-9	50
CV1241A-CSD	680-88348-10	54
CV1241B-CS	680-88348-11	57
CV1241C-CS	680-88348-12	63
CV1241D-GS	680-88348-13	53
FM0170A-CS	680-88348-14	55
FM0170A-CSD	680-88348-15	42
FM0170B-CS	680-88348-16	42
FM0306A-CS	680-88348-17	51
FM0124A-CS	680-88348-18	58
FM0124B-CS	680-88348-19	50
FM0124C-CS	680-88348-20	38
	MB 660-135556/1-A	87
	MB 660-135570/1-A	74
	LCS 660-135556/2-A	75
	LCS 660-135570/2-A	74
	680-88298-A-21-B MS	66
CV0093A-CS MS	680-88348-4 MS	65
	680-88298-A-21-C MSD	63
CV0093A-CS MSD	680-88348-4 MSD	77

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21033.D
 Lab ID: LCS 660-135556/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	664	456	69	39-130	
Acenaphthylene	664	518	78	38-130	
Anthracene	664	519	78	37-130	
Benzo[a]anthracene	664	537	81	40-130	
Benzo[a]pyrene	664	503	76	49-130	
Benzo[b]fluoranthene	664	555	84	37-130	
Benzo[g,h,i]perylene	664	382	58	32-130	
Benzo[k]fluoranthene	664	529	80	32-130	
Chrysene	664	510	77	41-130	
Dibenz(a,h)anthracene	664	458	69	27-130	
Fluoranthene	664	507	76	40-130	
Fluorene	664	501	75	40-130	
Indeno[1,2,3-cd]pyrene	664	445	67	30-130	
1-Methylnaphthalene	664	600	90	31-130	
2-Methylnaphthalene	664	543	82	33-130	
Naphthalene	664	558	84	36-130	
Phenanthrene	664	499	75	42-130	
Pyrene	664	572	86	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21008.D
 Lab ID: LCS 660-135570/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	511	77	39-130	
Acenaphthylene	668	539	81	38-130	
Anthracene	668	527	79	37-130	
Benzo[a]anthracene	668	533	80	40-130	
Benzo[a]pyrene	668	511	77	49-130	
Benzo[b]fluoranthene	668	544	82	37-130	
Benzo[g,h,i]perylene	668	514	77	32-130	
Benzo[k]fluoranthene	668	521	78	32-130	
Chrysene	668	499	75	41-130	
Dibenz(a,h)anthracene	668	532	80	27-130	
Fluoranthene	668	573	86	40-130	
Fluorene	668	547	82	40-130	
Indeno[1,2,3-cd]pyrene	668	506	76	30-130	
1-Methylnaphthalene	668	596	89	31-130	
2-Methylnaphthalene	668	524	79	33-130	
Naphthalene	668	529	79	36-130	
Phenanthrene	668	529	79	42-130	
Pyrene	668	543	81	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21037.D
 Lab ID: 680-88298-A-21-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	964	140 U	647	67	39-130	
Acenaphthylene	964	58 U	672	70	38-130	
Anthracene	964	18	719	73	37-130	
Benzo[a]anthracene	964	86	740	68	40-130	
Benzo[a]pyrene	964	70	685	64	49-130	
Benzo[b]fluoranthene	964	110	847	76	37-130	
Benzo[g,h,i]perylene	964	36	533	52	32-130	
Benzo[k]fluoranthene	964	55	779	75	32-130	
Chrysene	964	86	745	68	41-130	
Dibenz(a,h)anthracene	964	18 J	599	60	27-130	
Fluoranthene	964	150	776	65	40-130	
Fluorene	964	12 J	655	67	40-130	
Indeno[1,2,3-cd]pyrene	964	35	561	55	30-130	
1-Methylnaphthalene	964	39 J	752	74	31-130	
2-Methylnaphthalene	964	60	692	66	33-130	
Naphthalene	964	83	683	62	36-130	
Phenanthrene	964	110	768	68	42-130	
Pyrene	964	140	856	74	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21011.D
 Lab ID: 680-88348-4 MS Client ID: CV0093A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	960	580 U	750	78	39-130	
Acenaphthylene	960	230 U	804	84	38-130	
Anthracene	960	42 J	729	72	37-130	
Benzo[a]anthracene	960	240	804	58	40-130	
Benzo[a]pyrene	960	160	753	62	49-130	
Benzo[b]fluoranthene	960	350	786	45	37-130	
Benzo[g,h,i]perylene	960	200	697	52	32-130	
Benzo[k]fluoranthene	960	93	735	67	32-130	
Chrysene	960	550	748	21	41-130	F
Dibenz(a,h)anthracene	960	120	734	64	27-130	
Fluoranthene	960	300	767	49	40-130	
Fluorene	960	47 J	752	73	40-130	
Indeno[1,2,3-cd]pyrene	960	110 J	644	56	30-130	
1-Methylnaphthalene	960	400	815	43	31-130	
2-Methylnaphthalene	960	510	838	34	33-130	
Naphthalene	960	210 J	759	57	36-130	
Phenanthrene	960	540	820	29	42-130	F
Pyrene	960	290	834	56	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21038.D
 Lab ID: 680-88298-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	965	559	58	15	40	39-130	
Acenaphthylene	965	608	63	10	40	38-130	
Anthracene	965	659	66	9	40	37-130	
Benzo[a]anthracene	965	771	71	4	40	40-130	
Benzo[a]pyrene	965	747	70	9	40	49-130	
Benzo[b]fluoranthene	965	879	80	4	40	37-130	
Benzo[g,h,i]perylene	965	555	54	4	40	32-130	
Benzo[k]fluoranthene	965	747	72	4	40	32-130	
Chrysene	965	751	69	1	40	41-130	
Dibenz(a,h)anthracene	965	551	55	8	40	27-130	
Fluoranthene	965	1000	88	25	40	40-130	
Fluorene	965	685	70	4	40	40-130	
Indeno[1,2,3-cd]pyrene	965	591	58	5	40	30-130	
1-Methylnaphthalene	965	718	70	5	40	31-130	
2-Methylnaphthalene	965	667	63	4	40	33-130	
Naphthalene	965	648	58	5	40	36-130	
Phenanthrene	965	918	84	18	40	42-130	
Pyrene	965	1020	91	18	40	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Matrix: Solid Level: Low Lab File ID: 1CC21012.D
 Lab ID: 680-88348-4 MSD Client ID: CV0093A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	970	803	83	7	40	39-130	
Acenaphthylene	970	842	87	5	40	38-130	
Anthracene	970	768	75	5	40	37-130	
Benzo[a]anthracene	970	902	68	12	40	40-130	
Benzo[a]pyrene	970	793	66	5	40	49-130	
Benzo[b]fluoranthene	970	897	56	13	40	37-130	
Benzo[g,h,i]perylene	970	798	62	14	40	32-130	
Benzo[k]fluoranthene	970	830	76	12	40	32-130	
Chrysene	970	781	24	4	40	41-130	F
Dibenz(a,h)anthracene	970	806	71	9	40	27-130	
Fluoranthene	970	951	67	21	40	40-130	
Fluorene	970	764	74	2	40	40-130	
Indeno[1,2,3-cd]pyrene	970	767	68	18	40	30-130	
1-Methylnaphthalene	970	915	53	12	40	31-130	
2-Methylnaphthalene	970	938	44	11	40	33-130	
Naphthalene	970	849	66	11	40	36-130	
Phenanthrene	970	868	34	6	40	42-130	F
Pyrene	970	987	71	17	40	44-130	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
SDG No.: 68088348-1
Lab File ID: 1CC21032.D Lab Sample ID: MB 660-135556/1-A
Matrix: Solid Date Extracted: 03/20/2013 08:31
Instrument ID: BSMC5973 Date Analyzed: 03/21/2013 20:27
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135556/2-A	1CC21033.D	03/21/2013 20:46
	680-88298-A-21-B MS	1CC21037.D	03/21/2013 21:59
	680-88298-A-21-C MSD	1CC21038.D	03/21/2013 22:17
CV0021A-CS	680-88348-1	1CC25032.D	03/25/2013 21:31
CV0021B-CS	680-88348-3	1CC25034.D	03/25/2013 22:08
CV0093C-CS	680-88348-6	1DC26007.D	03/26/2013 12:02
CV0154A-CS	680-88348-7	1DC26008.D	03/26/2013 12:25
CV0021A-CSD	680-88348-2	1DC26009.D	03/26/2013 12:47
CV0093B-CS	680-88348-5	1DC26012.D	03/26/2013 13:55

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1CC21007.D Lab Sample ID: MB 660-135570/1-A
 Matrix: Solid Date Extracted: 03/20/2013 10:22
 Instrument ID: BSMC5973 Date Analyzed: 03/21/2013 12:47
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135570/2-A	1CC21008.D	03/21/2013 13:05
CV0093A-CS	680-88348-4	1CC21010.D	03/21/2013 13:42
CV0093A-CS MS	680-88348-4 MS	1CC21011.D	03/21/2013 14:00
CV0093A-CS MSD	680-88348-4 MSD	1CC21012.D	03/21/2013 14:19
CV0154B-CS	680-88348-8	1CC21014.D	03/21/2013 14:55
CV1241A-CS	680-88348-9	1CC21015.D	03/21/2013 15:14
CV1241A-CSD	680-88348-10	1CC21016.D	03/21/2013 15:32
CV1241B-CS	680-88348-11	1CC21017.D	03/21/2013 15:51
CV1241C-CS	680-88348-12	1CC21018.D	03/21/2013 16:09
CV1241D-GS	680-88348-13	1CC21019.D	03/21/2013 16:28
FM0170A-CS	680-88348-14	1CC21020.D	03/21/2013 16:46
FM0170A-CSD	680-88348-15	1CC21021.D	03/21/2013 17:05
FM0170B-CS	680-88348-16	1CC21022.D	03/21/2013 17:23
FM0306A-CS	680-88348-17	1CC21023.D	03/21/2013 17:42
FM0124A-CS	680-88348-18	1CC21024.D	03/21/2013 18:00
FM0124B-CS	680-88348-19	1CC21025.D	03/21/2013 18:18
FM0124C-CS	680-88348-20	1CC21026.D	03/21/2013 18:37

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 134776

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1CC21003.D DFTPP Injection Date: 03/21/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:33
 Analysis Batch No.: 135643

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.5
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	46.1
70	Less than 2.0 % of mass 69	0.2 (0.4)1
127	10.0 - 80.0 % of mass 198	41.9
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	6.1
275	10.0 - 60.0 % of mass 198	21.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	73.5
443	15.0 - 24.0 % of mass 442	14.8 (20.1)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135643/4	1CC21004.D	03/21/2013	11:50
	MB 660-135570/1-A	1CC21007.D	03/21/2013	12:47
	LCS 660-135570/2-A	1CC21008.D	03/21/2013	13:05
CV0093A-CS	680-88348-4	1CC21010.D	03/21/2013	13:42
CV0093A-CS MS	680-88348-4 MS	1CC21011.D	03/21/2013	14:00
CV0093A-CS MSD	680-88348-4 MSD	1CC21012.D	03/21/2013	14:19
CV0154B-CS	680-88348-8	1CC21014.D	03/21/2013	14:55
CV1241A-CS	680-88348-9	1CC21015.D	03/21/2013	15:14
CV1241A-CSD	680-88348-10	1CC21016.D	03/21/2013	15:32
CV1241B-CS	680-88348-11	1CC21017.D	03/21/2013	15:51
CV1241C-CS	680-88348-12	1CC21018.D	03/21/2013	16:09
CV1241D-GS	680-88348-13	1CC21019.D	03/21/2013	16:28
FM0170A-CS	680-88348-14	1CC21020.D	03/21/2013	16:46
FM0170A-CSD	680-88348-15	1CC21021.D	03/21/2013	17:05
FM0170B-CS	680-88348-16	1CC21022.D	03/21/2013	17:23
FM0306A-CS	680-88348-17	1CC21023.D	03/21/2013	17:42
FM0124A-CS	680-88348-18	1CC21024.D	03/21/2013	18:00
FM0124B-CS	680-88348-19	1CC21025.D	03/21/2013	18:18
FM0124C-CS	680-88348-20	1CC21026.D	03/21/2013	18:37
	MB 660-135556/1-A	1CC21032.D	03/21/2013	20:27
	LCS 660-135556/2-A	1CC21033.D	03/21/2013	20:46
	680-88298-A-21-B MS	1CC21037.D	03/21/2013	21:59

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1CC21003.D DFTPP Injection Date: 03/21/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:33
 Analysis Batch No.: 135643

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.5
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	46.1
70	Less than 2.0 % of mass 69	0.2 (0.4)1
127	10.0 - 80.0 % of mass 198	41.9
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	6.1
275	10.0 - 60.0 % of mass 198	21.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	73.5
443	15.0 - 24.0 % of mass 442	14.8 (20.1)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	680-88298-A-21-C MSD	1CC21038.D	03/21/2013	22:17

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1CC25002.D DFTPP Injection Date: 03/25/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 12:15
 Analysis Batch No.: 135753

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	34.6
68	Less than 2.0 % of mass 69	0.8 (1.8)1
69	Mass 69 relative abundance	44.5
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	44.5
197	Less than 2.0 % of mass 198	0.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.2
275	10.0 - 60.0 % of mass 198	20.3
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.2
442	Greater than 50.0 % of mass 198	70.4
443	15.0 - 24.0 % of mass 442	14.7 (20.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135753/3	1CC25003.D	03/25/2013	12:33
CV0021A-CS	680-88348-1	1CC25032.D	03/25/2013	21:31
CV0021B-CS	680-88348-3	1CC25034.D	03/25/2013	22:08

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1DB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:57
 Analysis Batch No.: 134781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	46.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	50.9
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	7.9
275	10.0 - 60.0 % of mass 198	25.1
365	Greater than 1.0 % of mass 198	2.9
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	64.5
443	15.0 - 24.0 % of mass 442	13.2 (20.5)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 660-134781/3	1DB22003.D	02/22/2013	12:13
	IC 660-134781/4	1DB22004.D	02/22/2013	12:35
	IC 660-134781/5	1DB22005.D	02/22/2013	12:58
	IC 660-134781/6	1DB22006.D	02/22/2013	13:21
	ICIS 660-134781/7	1DB22007.D	02/22/2013	13:43
	IC 660-134781/8	1DB22008.D	02/22/2013	14:06
	IC 660-134781/9	1DB22009.D	02/22/2013	14:28
	ICV 660-134781/10	1DB22010.D	02/22/2013	14:51

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab File ID: 1DC26002.D DFTPP Injection Date: 03/26/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 10:15
 Analysis Batch No.: 135792

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	41.3
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.9
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	48.1
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.1
275	10.0 - 60.0 % of mass 198	28.1
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	8.6
442	Greater than 50.0 % of mass 198	79.4
443	15.0 - 24.0 % of mass 442	15.8 (19.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135792/3	1DC26003.D	03/26/2013	10:32
CV0093C-CS	680-88348-6	1DC26007.D	03/26/2013	12:02
CV0154A-CS	680-88348-7	1DC26008.D	03/26/2013	12:25
CV0021A-CSD	680-88348-2	1DC26009.D	03/26/2013	12:47
CV0093B-CS	680-88348-5	1DC26012.D	03/26/2013	13:55

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	840044	3.74	651490	4.83	1219756	5.77
UPPER LIMIT	1680088	4.24	1302980	5.33	2439512	6.27
LOWER LIMIT	420022	3.24	325745	4.33	609878	5.27
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135570/1-A	816644	3.74	613061	4.83	1179184	5.77
LCS 660-135570/2-A	789098	3.74	623234	4.83	1182448	5.77
680-88348-4	CV0093A-CS	951629	762795	4.83	1450665	5.77
680-88348-4 MS	CV0093A-CS MS	952222	725009	4.83	1372275	5.77
680-88348-4 MSD	CV0093A-CS MSD	916387	725308	4.83	1359416	5.77
680-88348-8	CV0154B-CS	914432	741761	4.83	1327977	5.77
680-88348-9	CV1241A-CS	931502	780124	4.83	1360200	5.77
680-88348-10	CV1241A-CSD	987560	817538	4.83	1479296	5.77
680-88348-11	CV1241B-CS	958527	793392	4.83	1475094	5.77
680-88348-12	CV1241C-CS	938946	767205	4.83	1353126	5.77
680-88348-13	CV1241D-GS	958301	777056	4.83	1418195	5.77
680-88348-14	FM0170A-CS	965959	770439	4.83	1382544	5.77
680-88348-15	FM0170A-CSD	1019822	813400	4.83	1460518	5.77
680-88348-16	FM0170B-CS	956263	782423	4.83	1439967	5.78
680-88348-17	FM0306A-CS	949167	798259	4.83	1451354	5.78
680-88348-18	FM0124A-CS	968903	784703	4.83	1368114	5.77
680-88348-19	FM0124B-CS	998466	794524	4.83	1428336	5.77
680-88348-20	FM0124C-CS	1017954	836053	4.83	1489942	5.77
MB 660-135556/1-A	851567	3.74	663430	4.83	1242632	5.77
LCS 660-135556/2-A	931773	3.74	775277	4.83	1425754	5.77
680-88298-A-21-B MS	984901	3.74	791260	4.83	1392985	5.77
680-88298-A-21-C MSD	969283	3.74	773955	4.83	1390983	5.77

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1556594	7.72	1584646	8.90		
UPPER LIMIT	3113188	8.22	3169292	9.40		
LOWER LIMIT	778297	7.22	792323	8.40		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135570/1-A		1457692	7.72	1511583	8.90	
LCS 660-135570/2-A		1499600	7.72	1536093	8.90	
680-88348-4	CV0093A-CS	1583387	7.72	1527066	8.90	
680-88348-4 MS	CV0093A-CS MS	1480560	7.72	1470377	8.90	
680-88348-4 MSD	CV0093A-CS MSD	1529617	7.72	1452850	8.90	
680-88348-8	CV0154B-CS	1449886	7.72	1395103	8.90	
680-88348-9	CV1241A-CS	1450679	7.72	1412022	8.90	
680-88348-10	CV1241A-CSD	1531568	7.72	1408254	8.91	
680-88348-11	CV1241B-CS	1506329	7.72	1404485	8.91	
680-88348-12	CV1241C-CS	1407735	7.72	1376934	8.90	
680-88348-13	CV1241D-GS	1458757	7.72	1405388	8.90	
680-88348-14	FM0170A-CS	1443694	7.72	1351543	8.90	
680-88348-15	FM0170A-CSD	1516055	7.72	1419023	8.91	
680-88348-16	FM0170B-CS	1452246	7.72	1343588	8.91	
680-88348-17	FM0306A-CS	1438354	7.72	1365102	8.91	
680-88348-18	FM0124A-CS	1450668	7.72	1340002	8.91	
680-88348-19	FM0124B-CS	1451767	7.72	1391130	8.91	
680-88348-20	FM0124C-CS	1507099	7.72	1433727	8.91	
MB 660-135556/1-A		1292802	7.72	1269070	8.90	
LCS 660-135556/2-A		1511839	7.72	1425427	8.90	
680-88298-A-21-B MS		1507020	7.72	1369916	8.90	
680-88298-A-21-C MSD		1480189	7.72	1390044	8.91	

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135753/3 Date Analyzed: 03/25/2013 12:33
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC25003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	865252	3.73	707658	4.82	1324682	5.77	
UPPER LIMIT	1730504	4.23	1415316	5.32	2649364	6.27	
LOWER LIMIT	432626	3.23	353829	4.32	662341	5.27	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88348-1	CV0021A-CS	1245527	3.73	1025396	4.82	1883377	5.77
680-88348-3	CV0021B-CS	980063	3.73	800411	4.82	1468448	5.77

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135753/3 Date Analyzed: 03/25/2013 12:33
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC25003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1661991	7.72	1628045	8.90		
UPPER LIMIT	3323982	8.22	3256090	9.40		
LOWER LIMIT	830996	7.22	814023	8.40		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88348-1	CV0021A-CS		2041538	7.71	1880453	8.90
680-88348-3	CV0021B-CS		1497229	7.71	1388181	8.90

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	2851402	6.18	1685266	7.86	2758746	9.12	
UPPER LIMIT	5702804	6.68	3370532	8.36	5517492	9.62	
LOWER LIMIT	1425701	5.68	842633	7.36	1379373	8.62	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134781/10		3227519	6.19	1973397	7.86	3226971	9.12

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: ICIS 660-134781/7 Date Analyzed: 02/22/2013 13:43
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	2741766	11.46	2903096	13.33		
UPPER LIMIT	5483532	11.96	5806192	13.83		
LOWER LIMIT	1370883	10.96	1451548	12.83		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-134781/10	3262056	11.46	3389756	13.34		

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	2497630	6.13	1612962	7.80	2599869	9.06	
UPPER LIMIT	4995260	6.63	3225924	8.30	5199738	9.56	
LOWER LIMIT	1248815	5.63	806481	7.30	1299935	8.56	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88348-6	CV0093C-CS	3647864	6.12	2278045	7.80	3623810	9.06
680-88348-7	CV0154A-CS	3438872	6.13	2143631	7.80	3457937	9.06
680-88348-2	CV0021A-CSD	2471276	6.12	1573903	7.80	2524795	9.06
680-88348-5	CV0093B-CS	3003935	6.12	1879245	7.80	3050465	9.07

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Sample No.: CCVIS 660-135792/3 Date Analyzed: 03/26/2013 10:32
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DC26003.D Heated Purge: (Y/N) N
 Calibration ID: 2761

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	2607802	11.40	2561814	13.27		
UPPER LIMIT	5215604	11.90	5123628	13.77		
LOWER LIMIT	1303901	10.90	1280907	12.77		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88348-6	CV0093C-CS	3520438	11.40	3545235	13.27	
680-88348-7	CV0154A-CS	3362413	11.40	3469444	13.27	
680-88348-2	CV0021A-CSD	2536184	11.40	2638576	13.26	
680-88348-5	CV0093B-CS	2987510	11.40	3137819	13.27	

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0021A-CS Lab Sample ID: 680-88348-1
 Matrix: Solid Lab File ID: 1CC25032.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:10
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.15(g) Date Analyzed: 03/25/2013 21:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135753 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	34	J	210	26
120-12-7	Anthracene	50		43	22
56-55-3	Benzo[a]anthracene	240		41	20
50-32-8	Benzo[a]pyrene	250		54	27
205-99-2	Benzo[b]fluoranthene	370		63	31
191-24-2	Benzo[g,h,i]perylene	180		100	23
207-08-9	Benzo[k]fluoranthene	150		41	19
218-01-9	Chrysene	260		46	23
53-70-3	Dibenz(a,h)anthracene	65	J	100	21
206-44-0	Fluoranthene	390		100	21
86-73-7	Fluorene	23	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	37
90-12-0	1-Methylnaphthalene	100	J	210	23
91-57-6	2-Methylnaphthalene	110	J	210	37
91-20-3	Naphthalene	99	J	210	23
85-01-8	Phenanthrene	260		41	20
129-00-0	Pyrene	420		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25032.D
 Lab Smp Id: 680-88348-A-1-A Client Smp ID: CV0021A-CS
 Inj Date : 25-MAR-2013 21:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-A-1-A
 Misc Info : 680-88348-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
 Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 32
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	23.070	% 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		3.733	3.733	(1.000)	1245527	40.0000		
* 6 Acenaphthene-d10	164		4.821	4.821	(1.000)	1025396	40.0000		
* 10 Phenanthrene-d10	188		5.768	5.768	(1.000)	1883377	40.0000		
\$ 14 o-Terphenyl	230		6.021	6.021	(1.044)	55439	1.94962	669.1134	
* 18 Chrysene-d12	240		7.709	7.715	(1.000)	2041538	40.0000		
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1880453	40.0000		
2 Naphthalene	128		3.745	3.745	(1.003)	9356	0.28854	99.0260(Q)	
3 2-Methylnaphthalene	142		4.174	4.174	(1.118)	6876	0.31790	109.1040	
4 1-Methylnaphthalene	142		4.233	4.233	(1.134)	5984	0.30377	104.2538	
5 Acenaphthylene	152		4.739	4.733	(0.983)	4094	0.09903	33.9874(Q)	
9 Fluorene	166		5.157	5.162	(1.070)	2185	0.06724	23.0760(Q)	
11 Phenanthrene	178		5.786	5.786	(1.003)	41442	0.76098	261.1686	
12 Anthracene	178		5.821	5.821	(1.009)	7771	0.14591	50.0750	
13 Carbazole	167		5.927	5.927	(1.028)	5636	0.11904	40.8552	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.621	6.621	(1.148)	68258	1.14452	392.8003
16 Pyrene	202	6.792	6.792	(0.881)	66948	1.22027	418.7978
17 Benzo(a)anthracene	228	7.703	7.703	(0.999)	40797	0.69238	237.6265
19 Chrysene	228	7.727	7.733	(1.002)	45447	0.77072	264.5122
20 Benzo(b)fluoranthene	252	8.545	8.550	(0.960)	53027	1.07903	370.3249(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.963)	21344	0.42338	145.3048(M)
22 Benzo(a)pyrene	252	8.839	8.845	(0.993)	35100	0.73532	252.3639
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.062	(1.130)	21763	0.48465	166.3336(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.080	(1.132)	8378	0.19074	65.4636(M)
26 Benzo(g,h,i)perylene	276	10.409	10.415	(1.170)	24798	0.52791	181.1804(M)

QC Flag Legend

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

Data File: 1CC25032.D

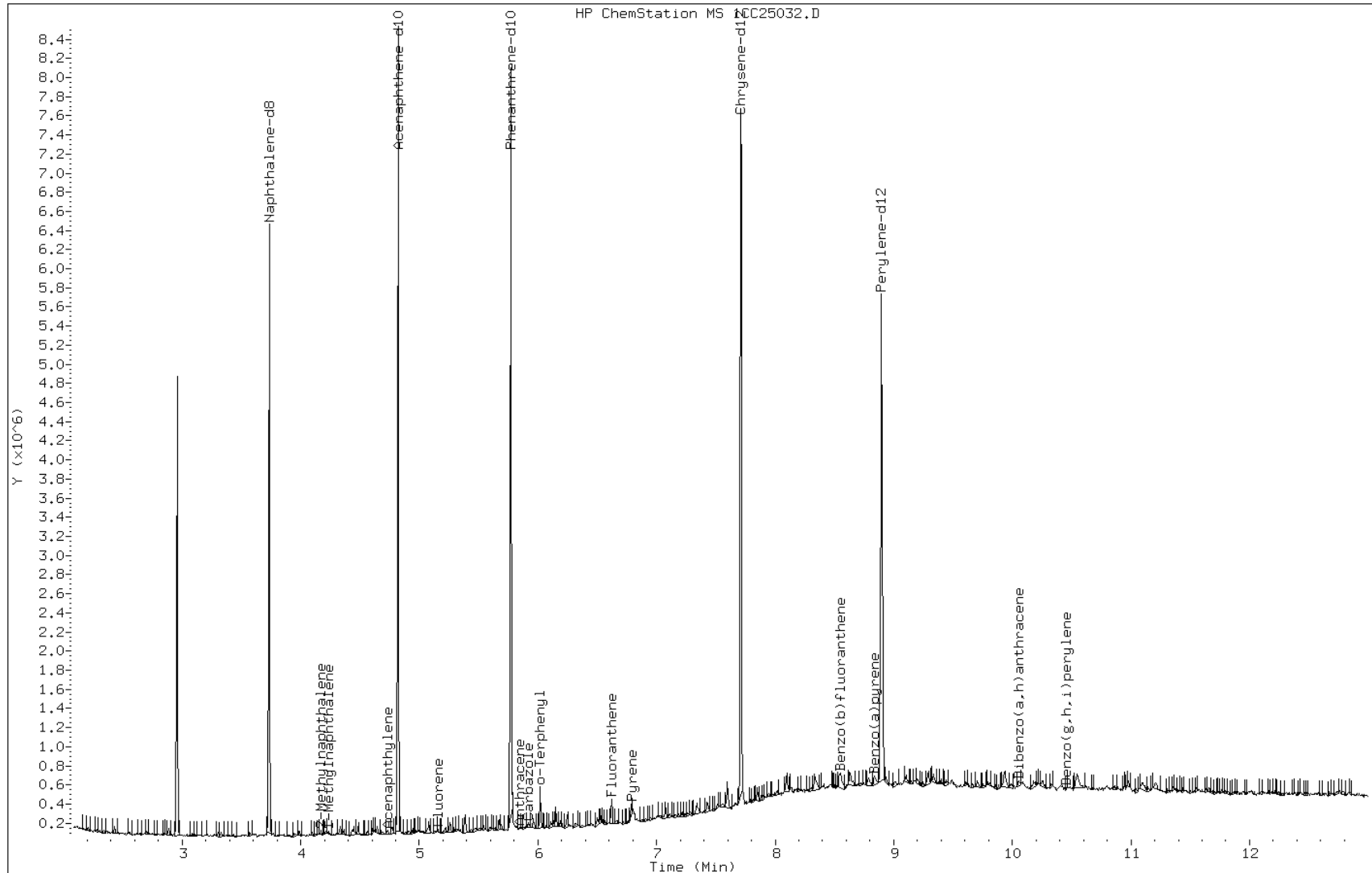
Date: 25-MAR-2013 21:31

Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

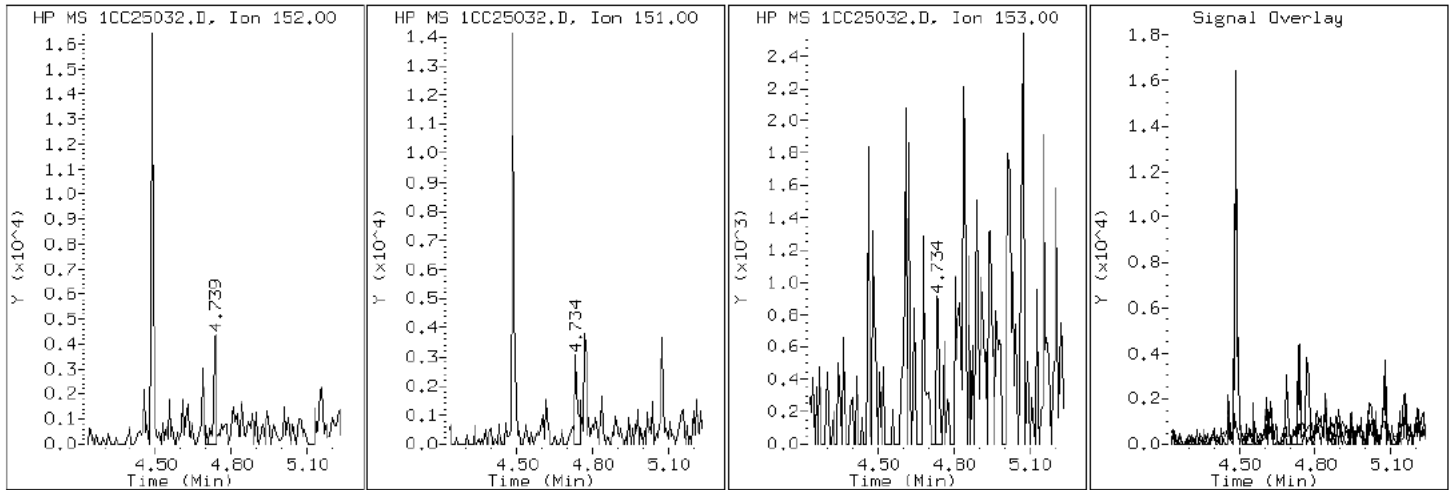
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

5 Acenaphthylene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

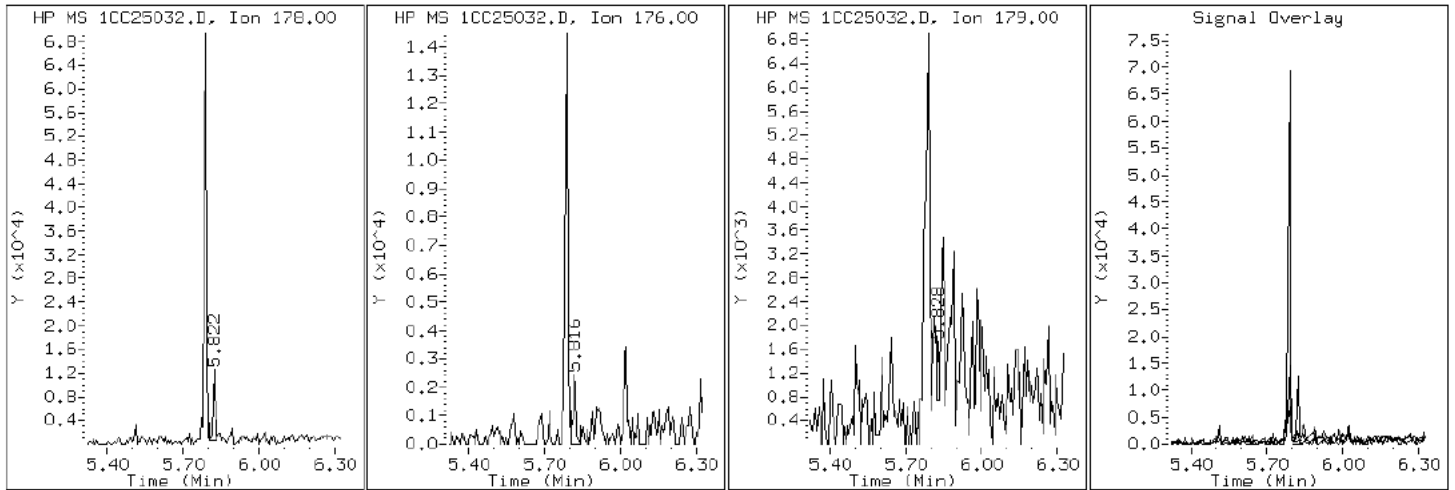
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

12 Anthracene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

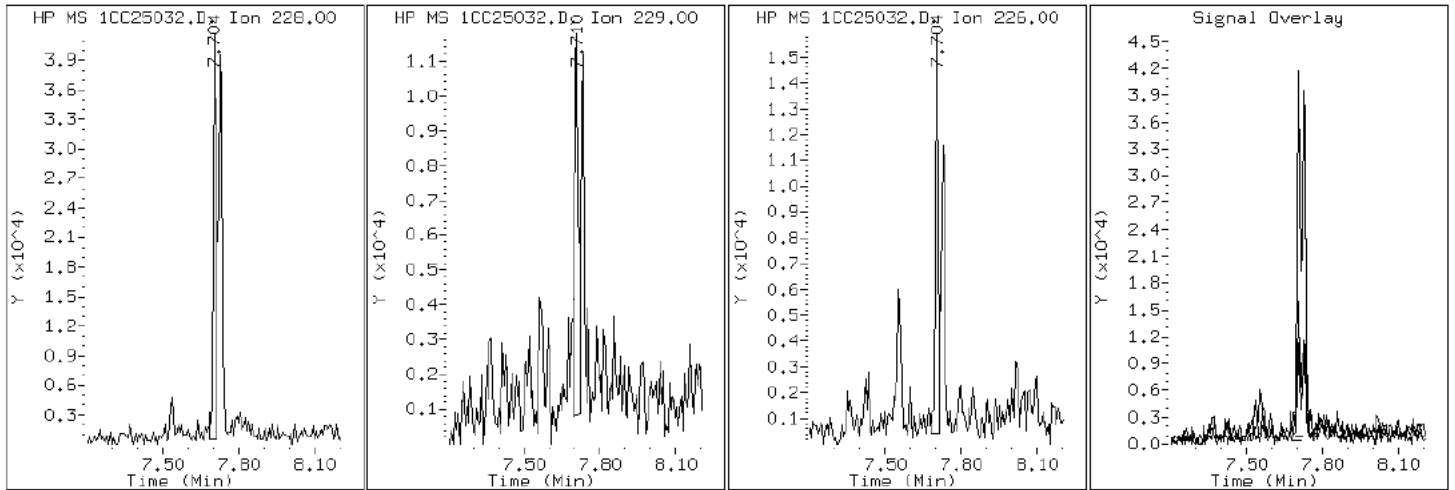
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

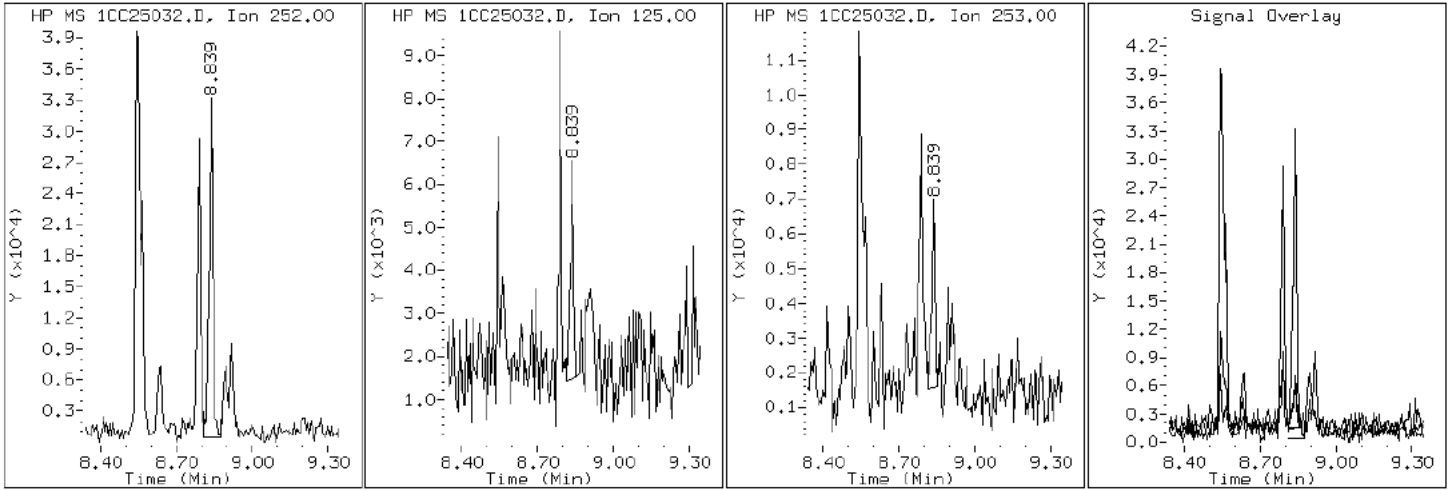
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

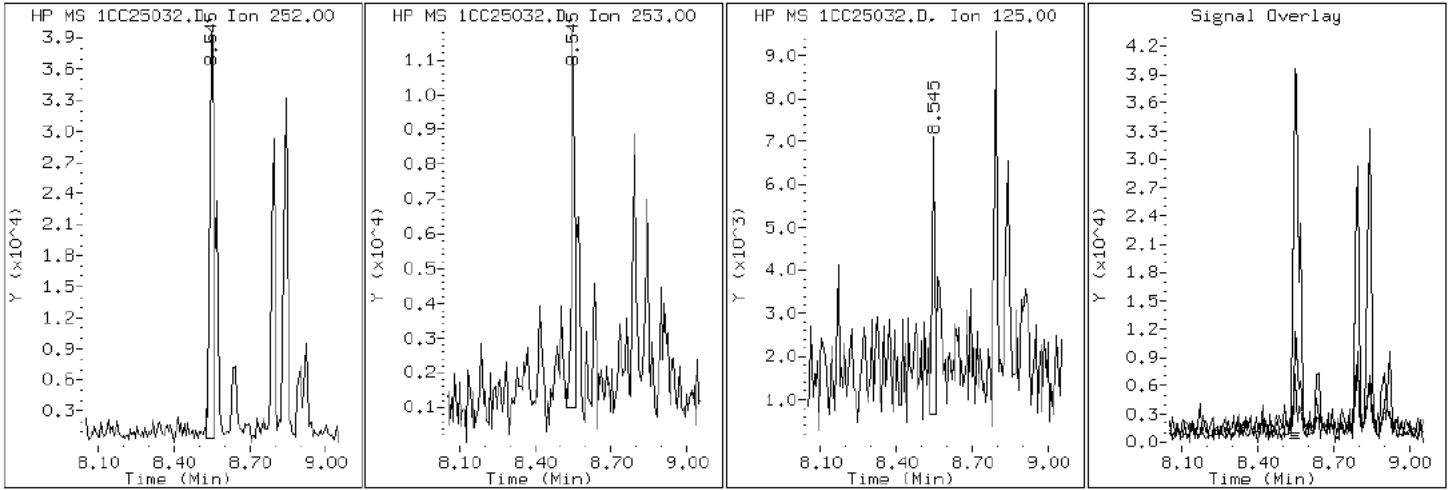
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

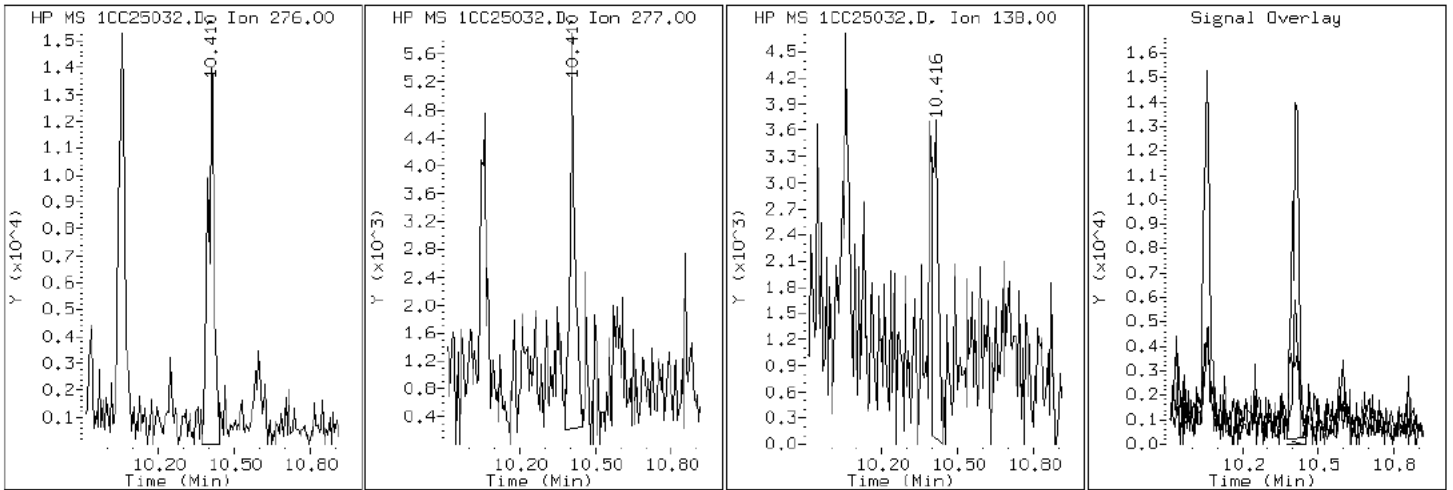
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

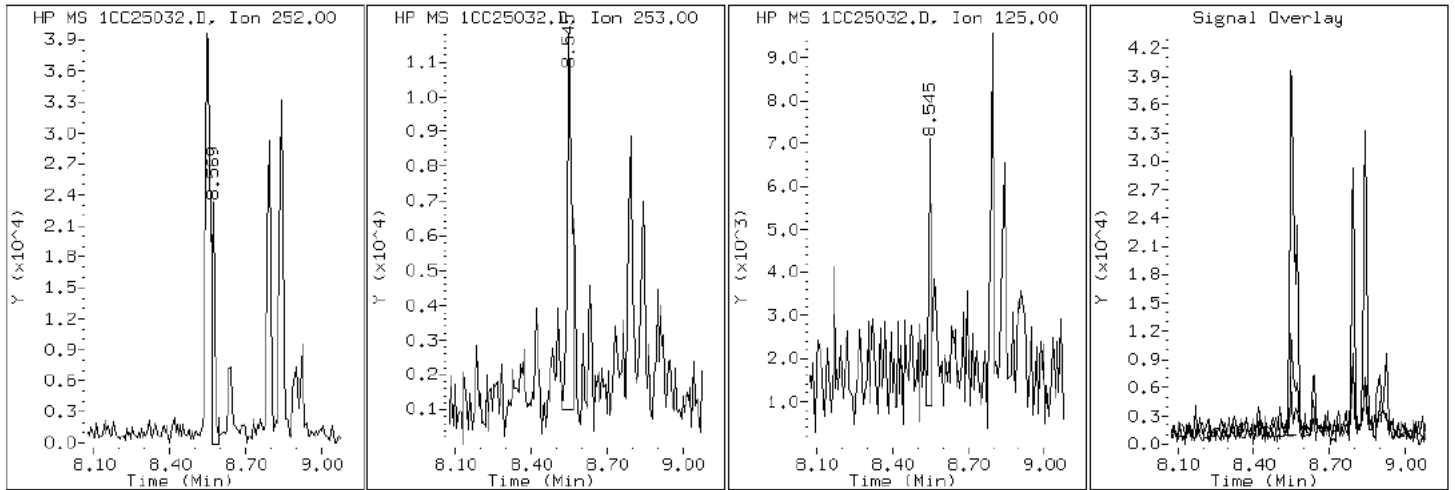
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

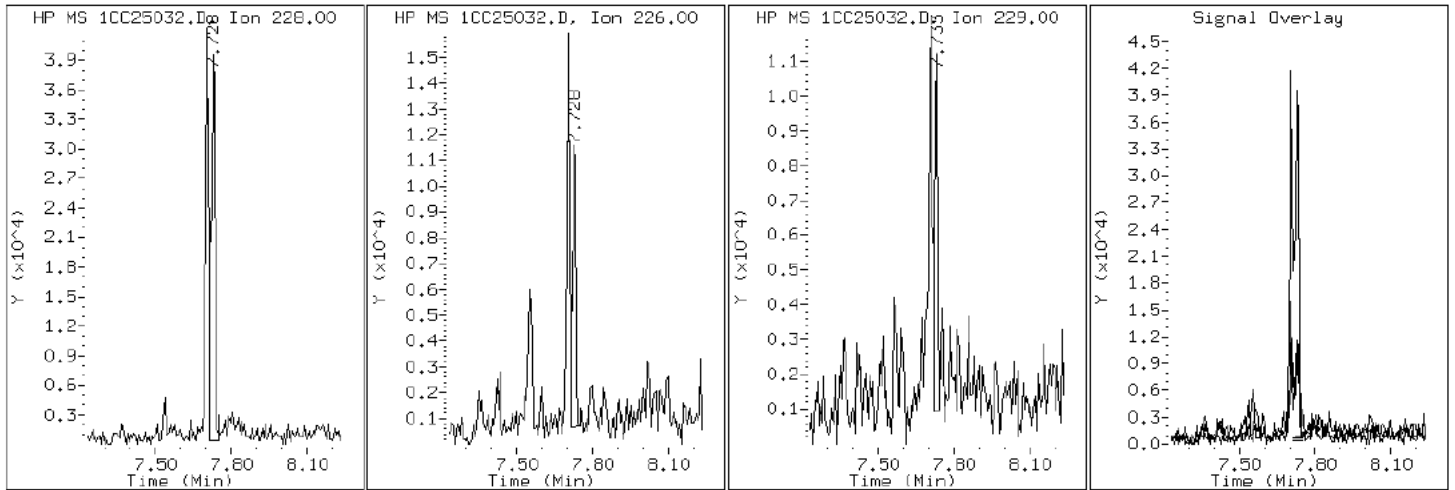
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

19 Chrysene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

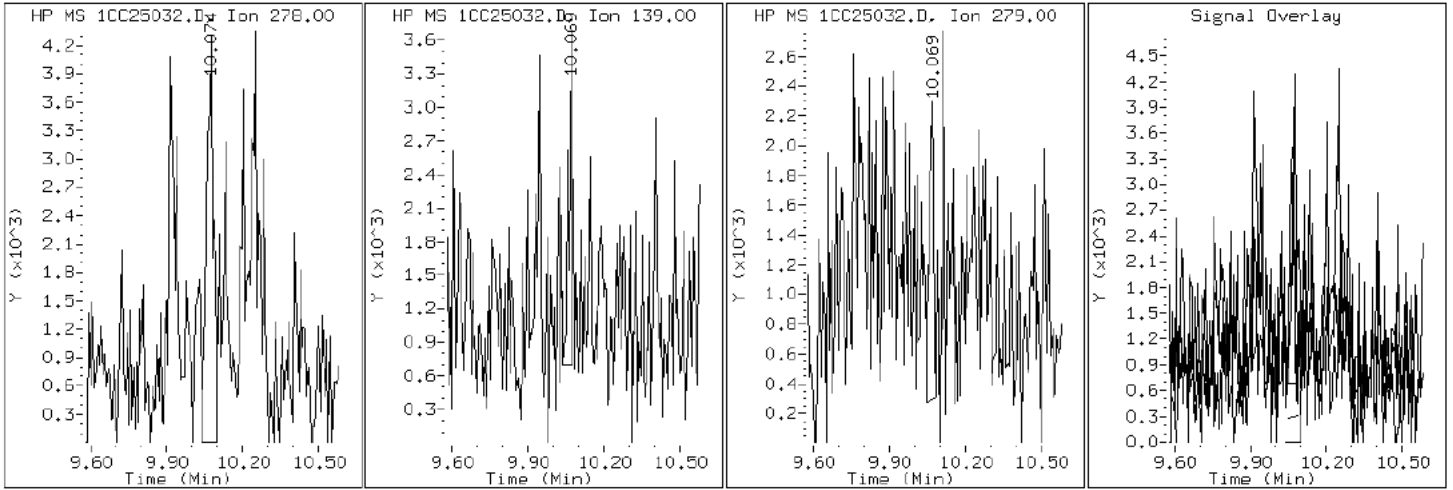
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

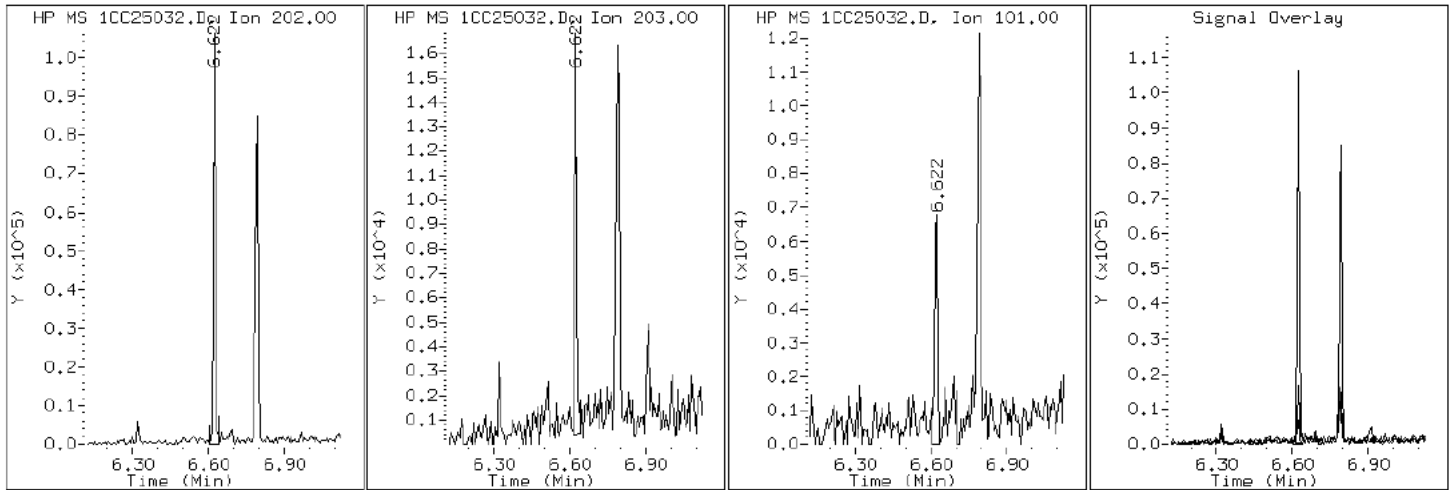
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

15 Fluoranthene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

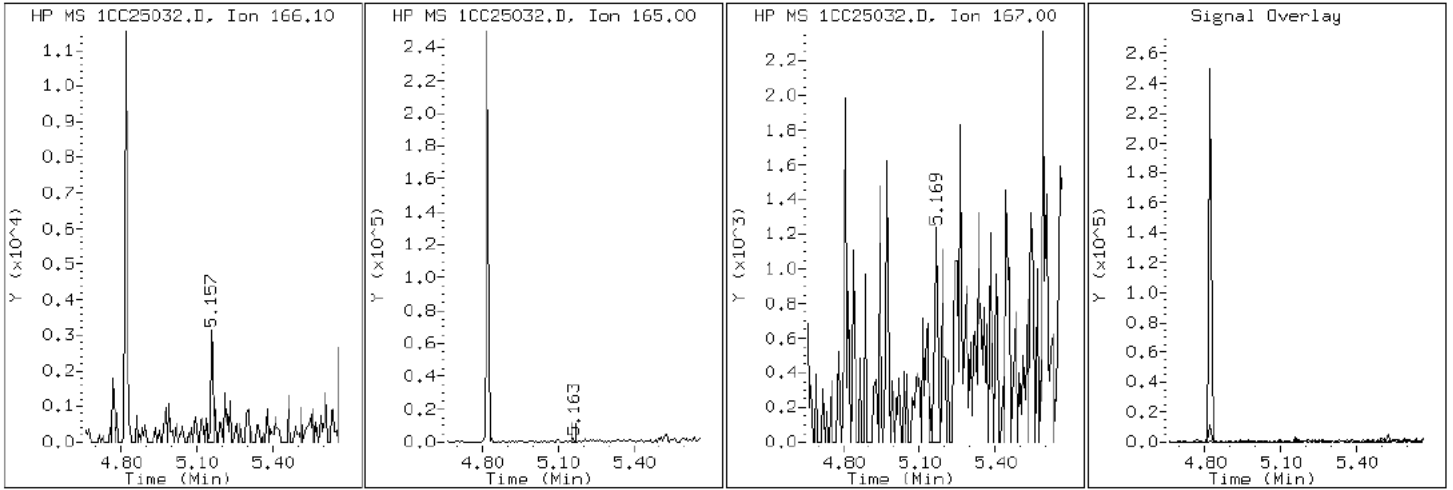
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

9 Fluorene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

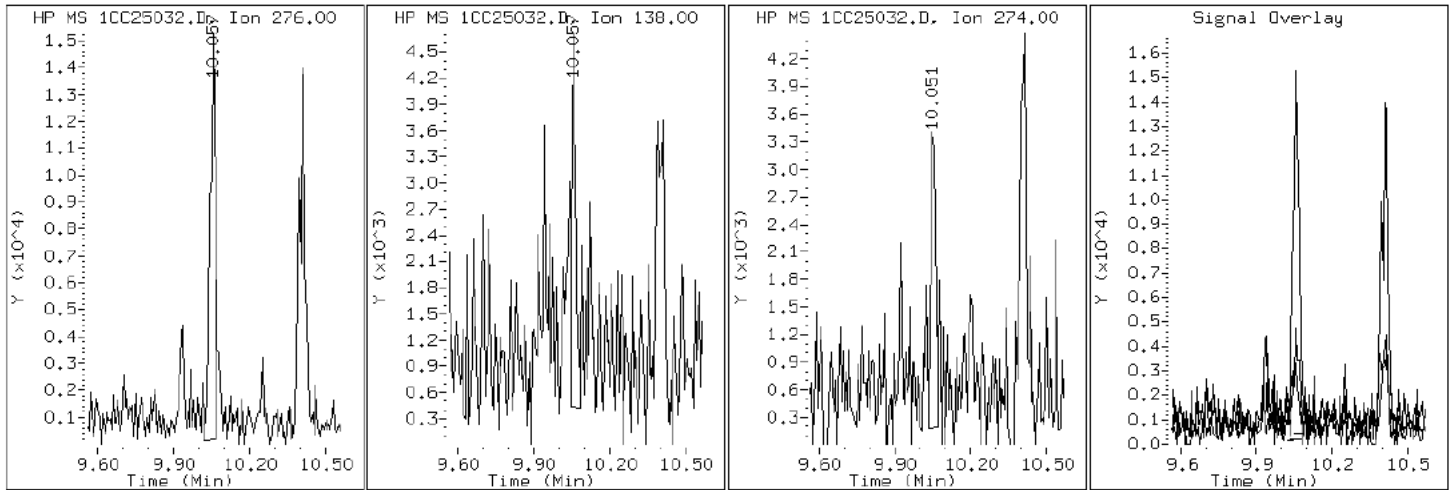
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

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



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

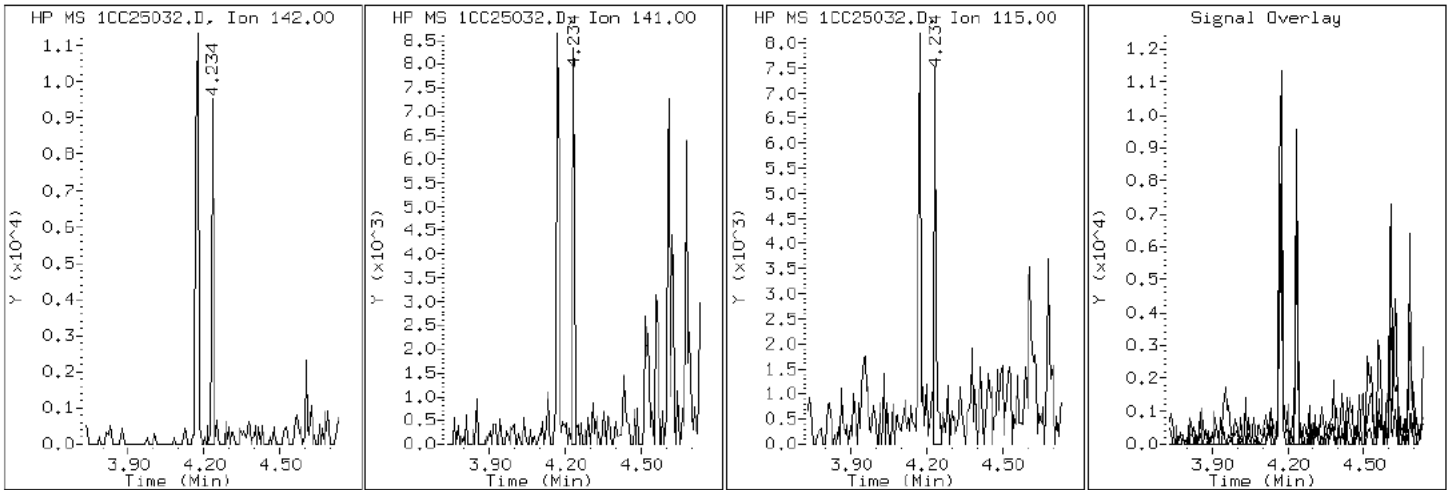
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

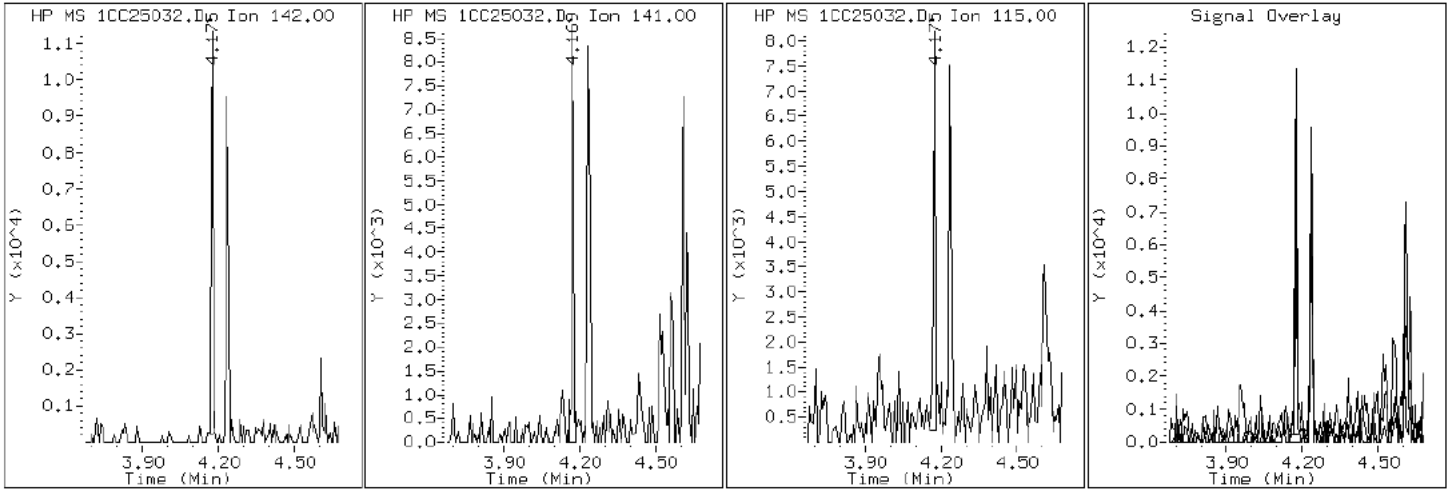
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

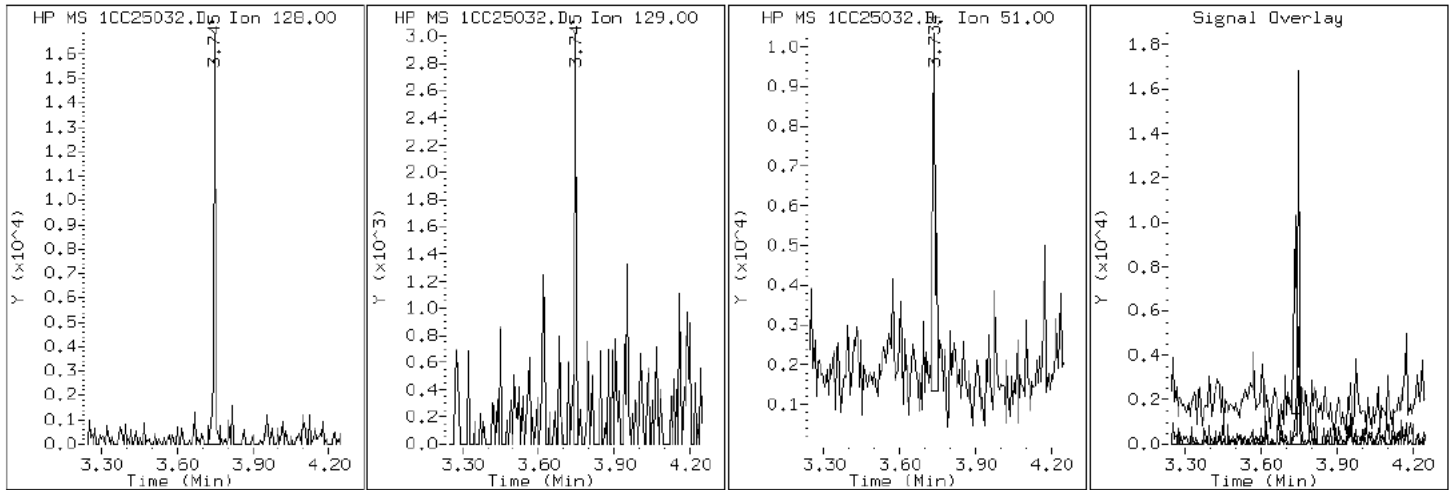
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

2 Naphthalene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

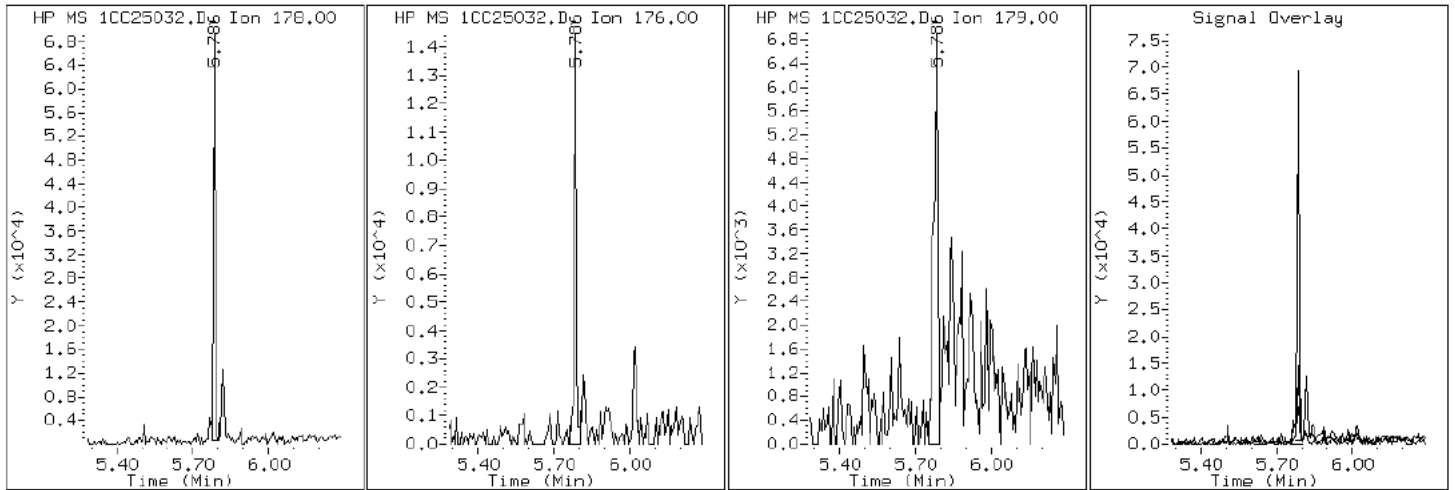
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

11 Phenanthrene



Data File: 1CC25032.D

Date: 25-MAR-2013 21:31

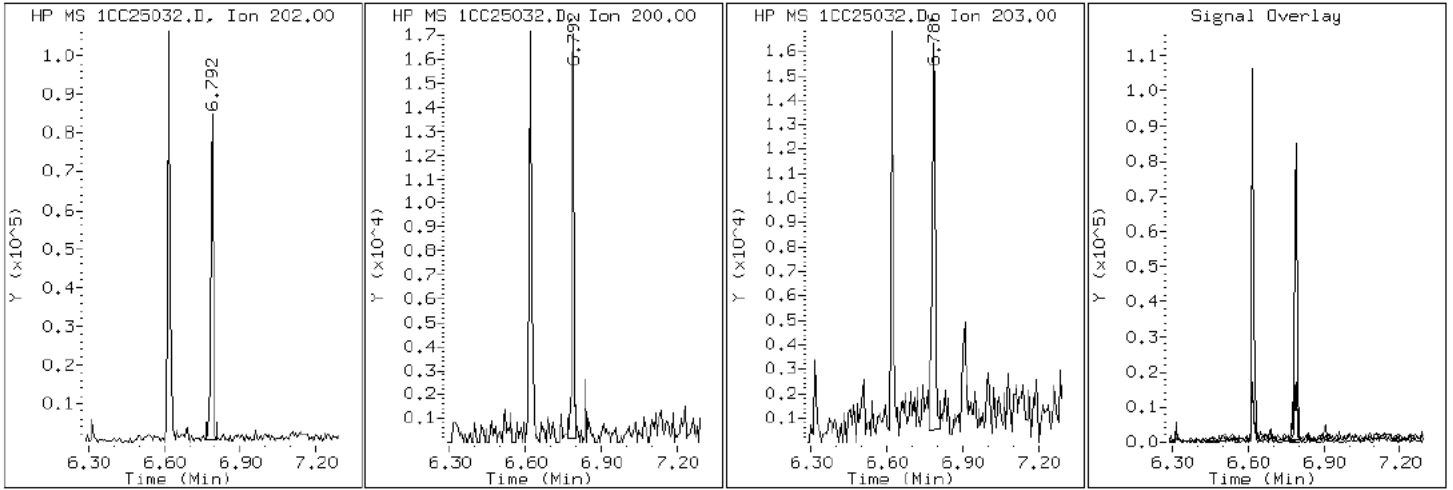
Client ID: CV0021A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-1-A

Operator: SCC

16 Pyrene

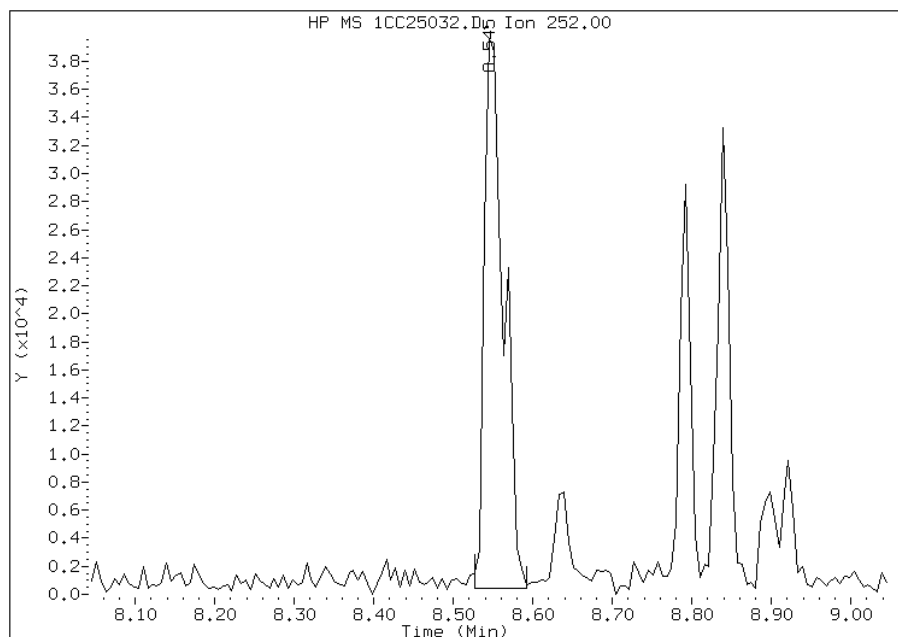


Manual Integration Report

Data File: 1CC25032.D
Inj. Date and Time: 25-MAR-2013 21:31
Instrument ID: BSMC5973.i
Client ID: CV0021A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/26/2013

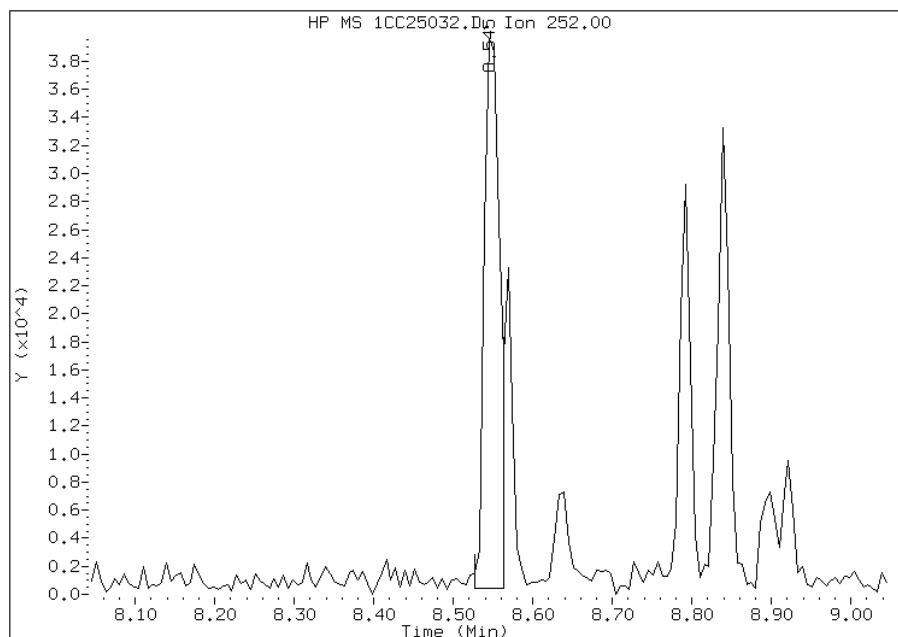
Processing Integration Results

RT: 8.55
Response: 67325
Amount: 1
Conc: 470



Manual Integration Results

RT: 8.55
Response: 53027
Amount: 1
Conc: 370



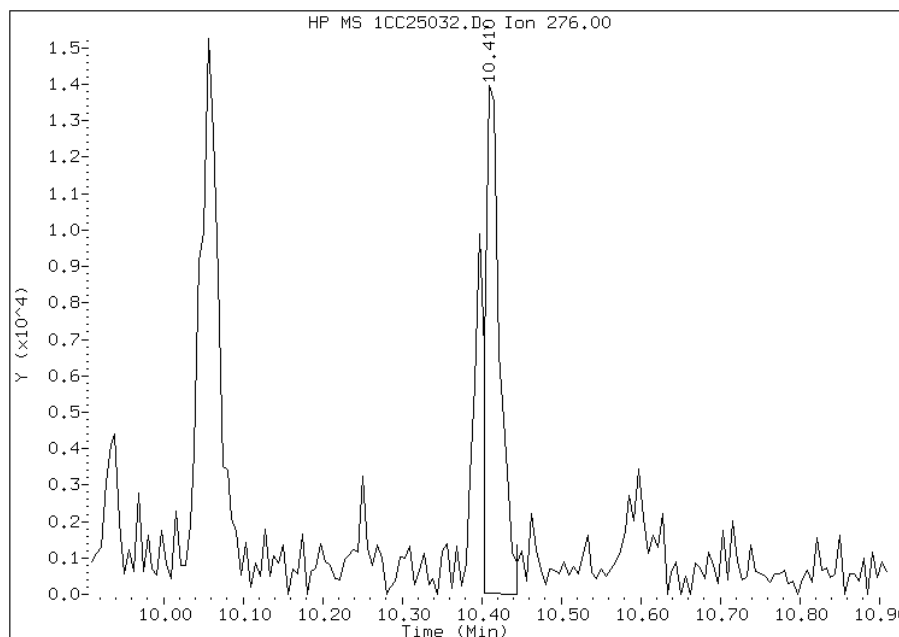
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC25032.D
Inj. Date and Time: 25-MAR-2013 21:31
Instrument ID: BSMC5973.i
Client ID: CV0021A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/26/2013

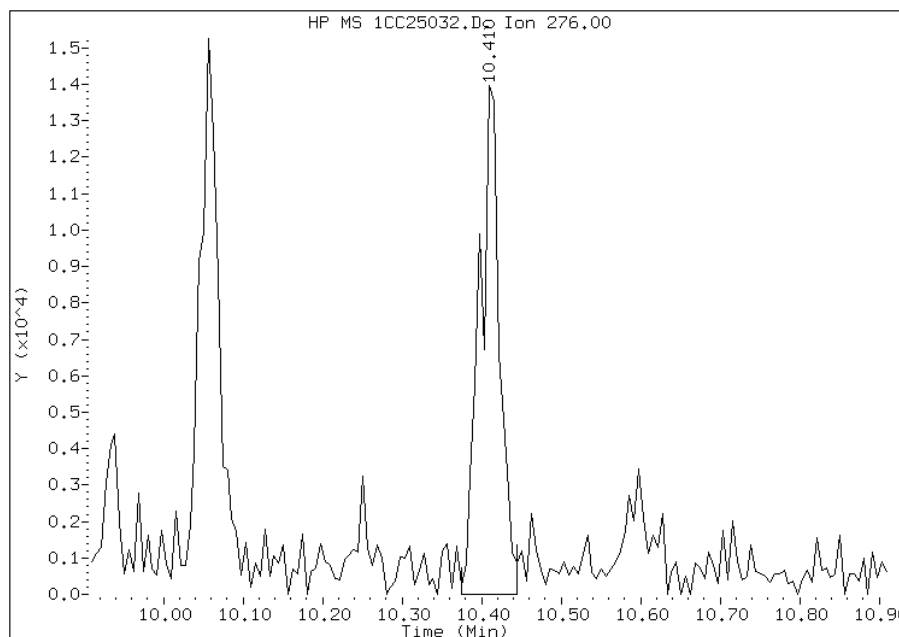
Processing Integration Results

RT: 10.41
Response: 17735
Amount: 0
Conc: 130



Manual Integration Results

RT: 10.41
Response: 24798
Amount: 1
Conc: 181



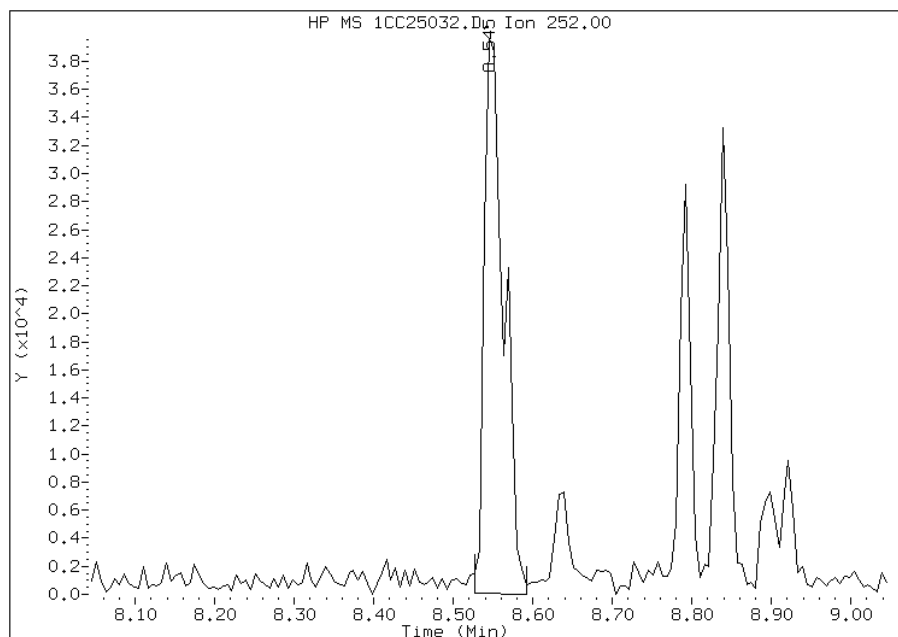
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25032.D
Inj. Date and Time: 25-MAR-2013 21:31
Instrument ID: BSMC5973.i
Client ID: CV0021A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/26/2013

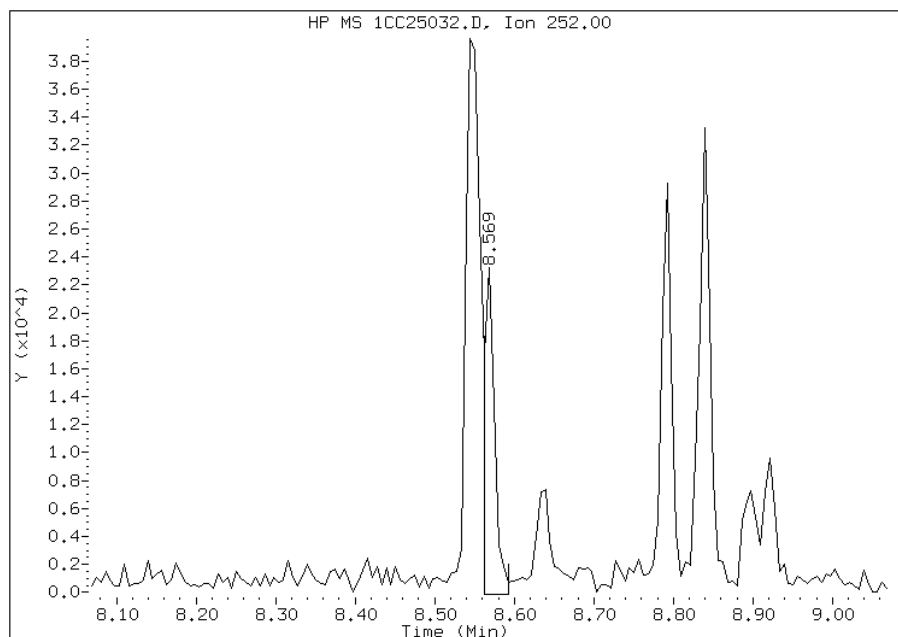
Processing Integration Results

RT: 8.55
Response: 68928
Amount: 1
Conc: 469



Manual Integration Results

RT: 8.57
Response: 21344
Amount: 0
Conc: 145



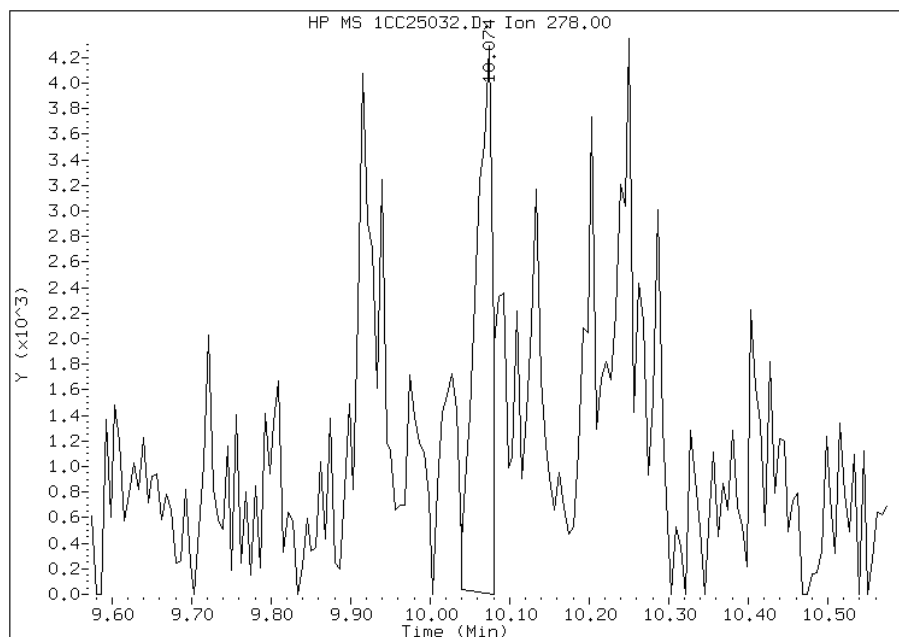
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25032.D
Inj. Date and Time: 25-MAR-2013 21:31
Instrument ID: BSMC5973.i
Client ID: CV0021A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/26/2013

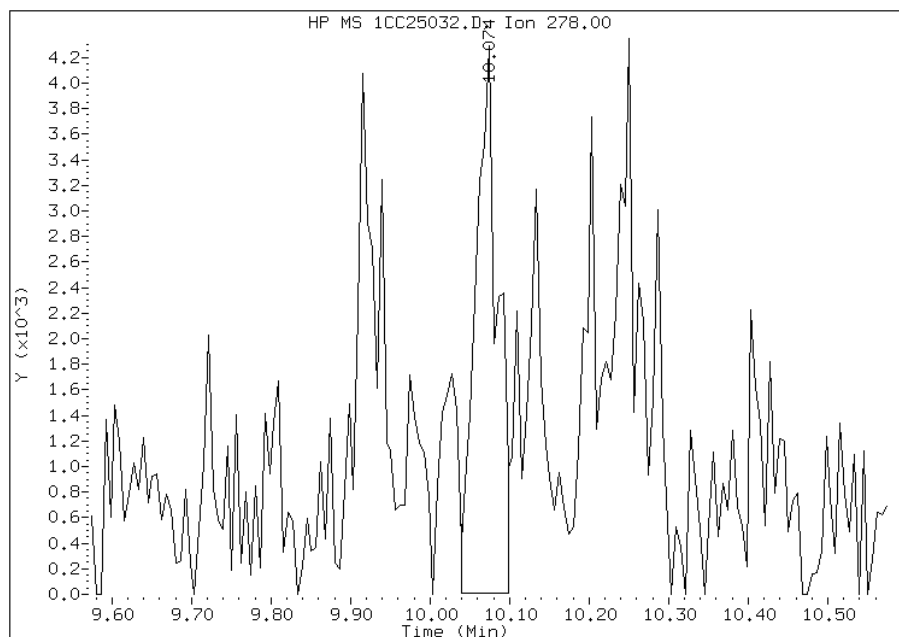
Processing Integration Results

RT: 10.07
Response: 6348
Amount: 0
Conc: 50



Manual Integration Results

RT: 10.07
Response: 8378
Amount: 0
Conc: 65



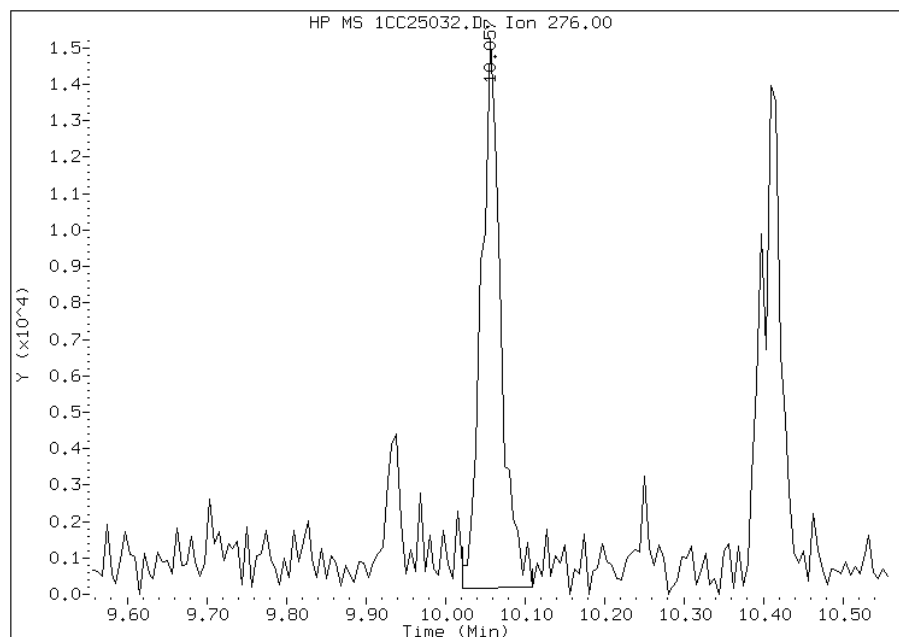
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25032.D
Inj. Date and Time: 25-MAR-2013 21:31
Instrument ID: BSMC5973.i
Client ID: CV0021A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

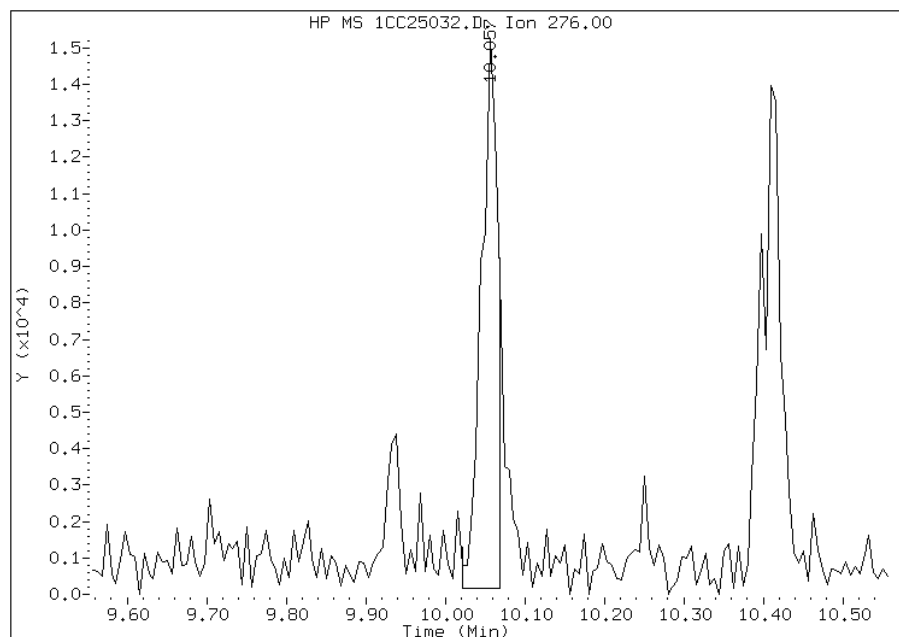
Processing Integration Results

RT: 10.06
Response: 25839
Amount: 1
Conc: 197



Manual Integration Results

RT: 10.06
Response: 21763
Amount: 0
Conc: 166



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0021A-CSD Lab Sample ID: 680-88348-2
 Matrix: Solid Lab File ID: 1DC26009.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:10
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.18(g) Date Analyzed: 03/26/2013 12:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135792 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	48	J	210	26
120-12-7	Anthracene	63		44	22
56-55-3	Benzo[a]anthracene	310		42	20
50-32-8	Benzo[a]pyrene	250		54	27
205-99-2	Benzo[b]fluoranthene	420		64	32
191-24-2	Benzo[g,h,i]perylene	210		100	23
207-08-9	Benzo[k]fluoranthene	160		42	19
218-01-9	Chrysene	320		47	23
53-70-3	Dibenz(a,h)anthracene	59	J	100	21
206-44-0	Fluoranthene	560		100	21
86-73-7	Fluorene	25	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	180		100	37
90-12-0	1-Methylnaphthalene	190	J	210	23
91-57-6	2-Methylnaphthalene	200	J	210	37
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	390		42	20
129-00-0	Pyrene	460		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26009.D
 Lab Smp Id: 680-88348-A-2-A Client Smp ID: CV0021A-CSD
 Inj Date : 26-MAR-2013 12:47
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88348-A-2-A
 Misc Info : 680-88348-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 9
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	24.211	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN (ug/l)	FINAL (ug/Kg)
			MASS	RT	EXP RT	REL RT		
* 1 Naphthalene-d8	136		6.122	6.126	(1.000)	2471276	40.0000	
* 6 Acenaphthene-d10	164		7.797	7.800	(1.000)	1573903	40.0000	
* 9 Phenanthrene-d10	188		9.060	9.063	(1.000)	2524795	40.0000	
\$ 13 o-Terphenyl	230		9.366	9.375	(1.034)	62621	1.60388	560
* 17 Chrysene-d12	240		11.398	11.402	(1.000)	2536184	40.0000	
* 22 Perylene-d12	264		13.261	13.270	(1.000)	2638576	40.0000	
2 Naphthalene	128		6.146	6.149	(1.004)	26167	0.39582	140
3 2-Methylnaphthalene	142		6.845	6.848	(1.118)	23967	0.56913	200
4 1-Methylnaphthalene	142		6.939	6.942	(1.133)	21654	0.54911	190
5 Acenaphthylene	152		7.668	7.677	(0.983)	9633	0.13883	48
8 Fluorene	166		8.267	8.270	(1.060)	3523	0.07127	25
10 Phenanthrene	178		9.078	9.087	(1.002)	80993	1.13007	390
11 Anthracene	178		9.119	9.128	(1.006)	13078	0.18238	63
12 Carbazole	167		9.260	9.269	(1.022)	9872	0.15400	54

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
14 Fluoranthene	202	10.065	10.068	(1.111)	121189	1.62031	560
15 Pyrene	202	10.253	10.256	(0.899)	105188	1.33708	460
16 Benzo(a)anthracene	228	11.381	11.384	(0.998)	62453	0.89944	310
18 Chrysene	228	11.416	11.431	(1.002)	66883	0.93302	320
19 Benzo(b)fluoranthene	252	12.697	12.712	(0.957)	81588	1.20130	420
20 Benzo(k)fluoranthene	252	12.732	12.753	(0.960)	32401	0.45564	160
21 Benzo(a)pyrene	252	13.155	13.170	(0.992)	49227	0.73245	250
23 Indeno(1,2,3-cd)pyrene	276	14.859	14.886	(1.121)	36694	0.51160	180(M)
24 Dibenzo(a,h)anthracene	278	14.888	14.915	(1.123)	11235	0.16961	59
25 Benzo(g,h,i)perylene	276	15.312	15.344	(1.155)	41706	0.60987	210

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26009.D

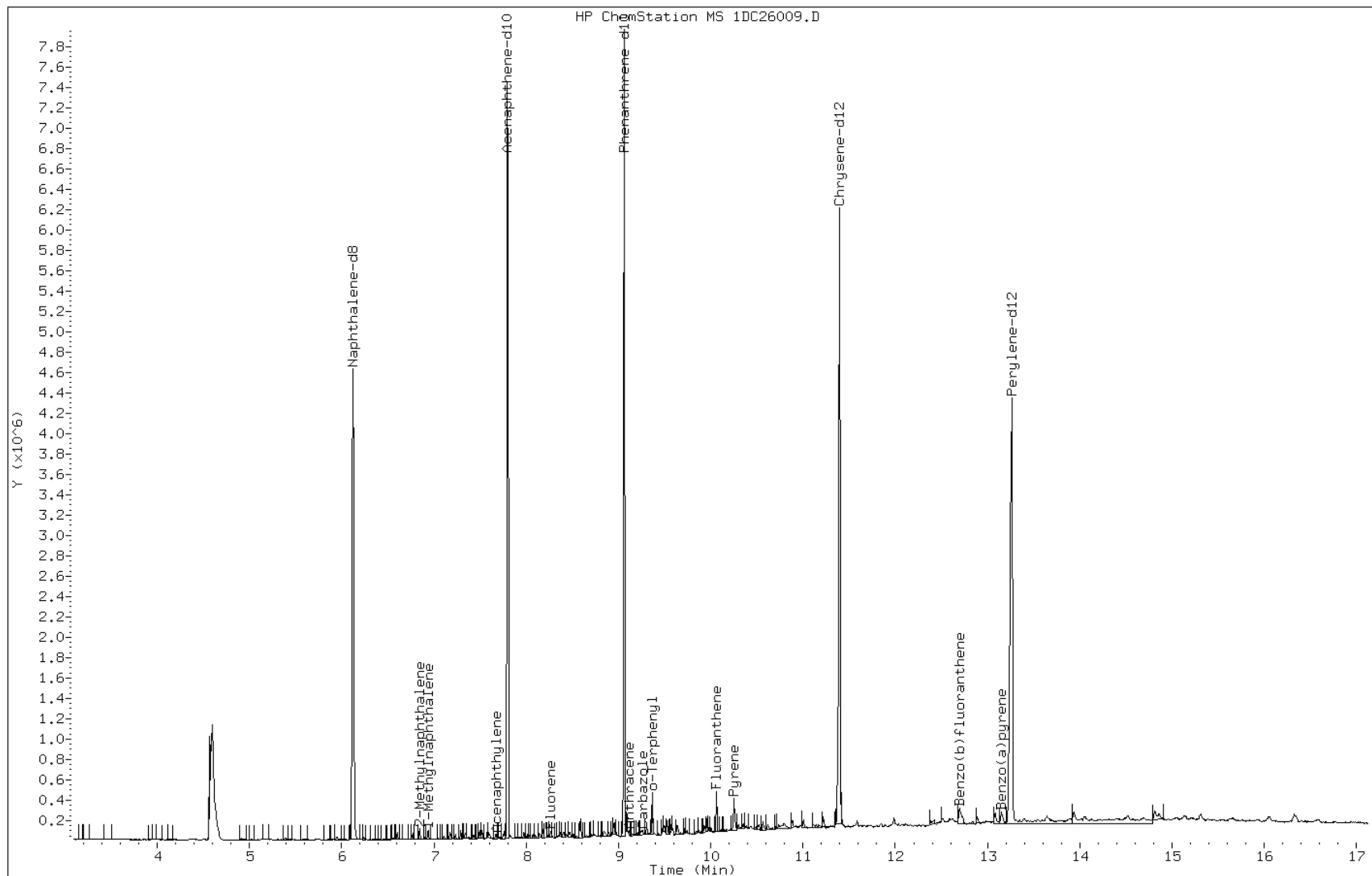
Date: 26-MAR-2013 12:47

Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

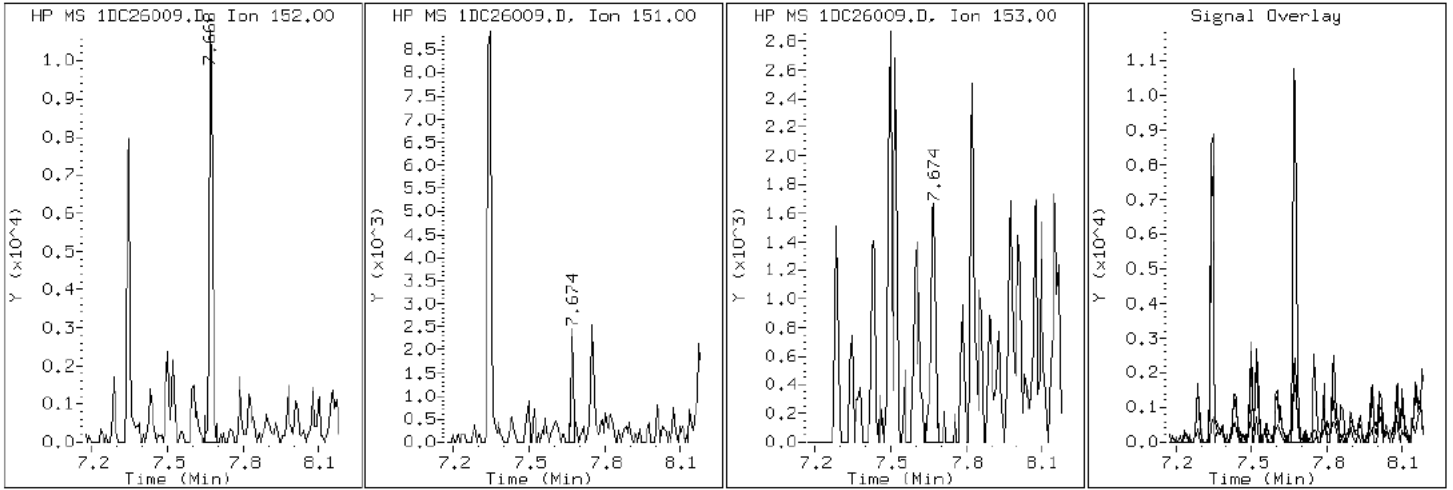
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

5 Acenaphthylene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

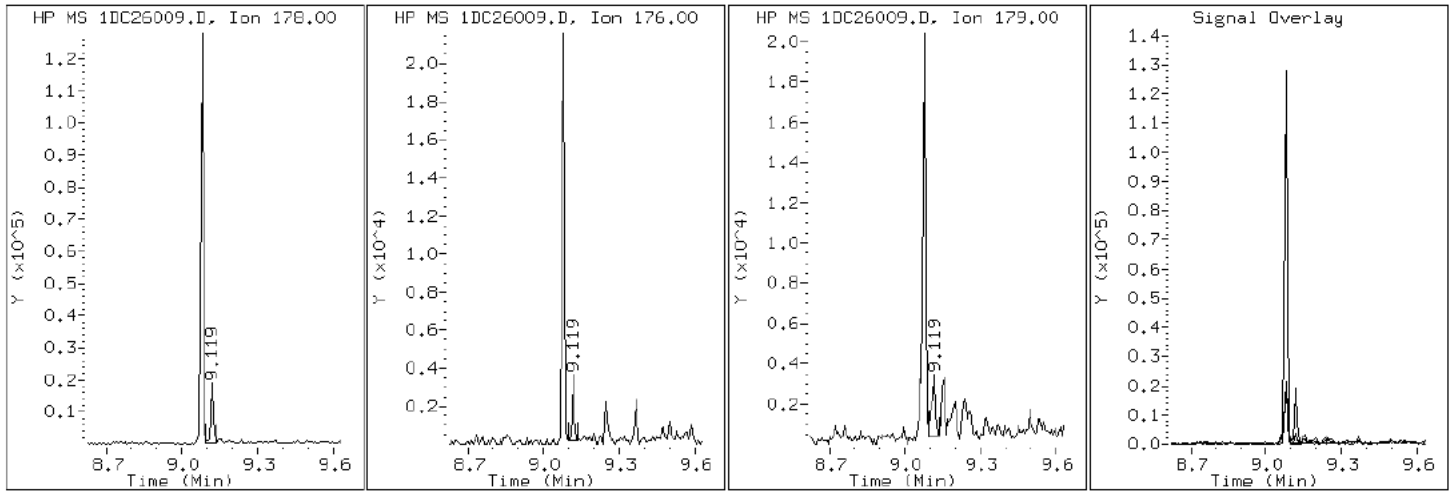
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

11 Anthracene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

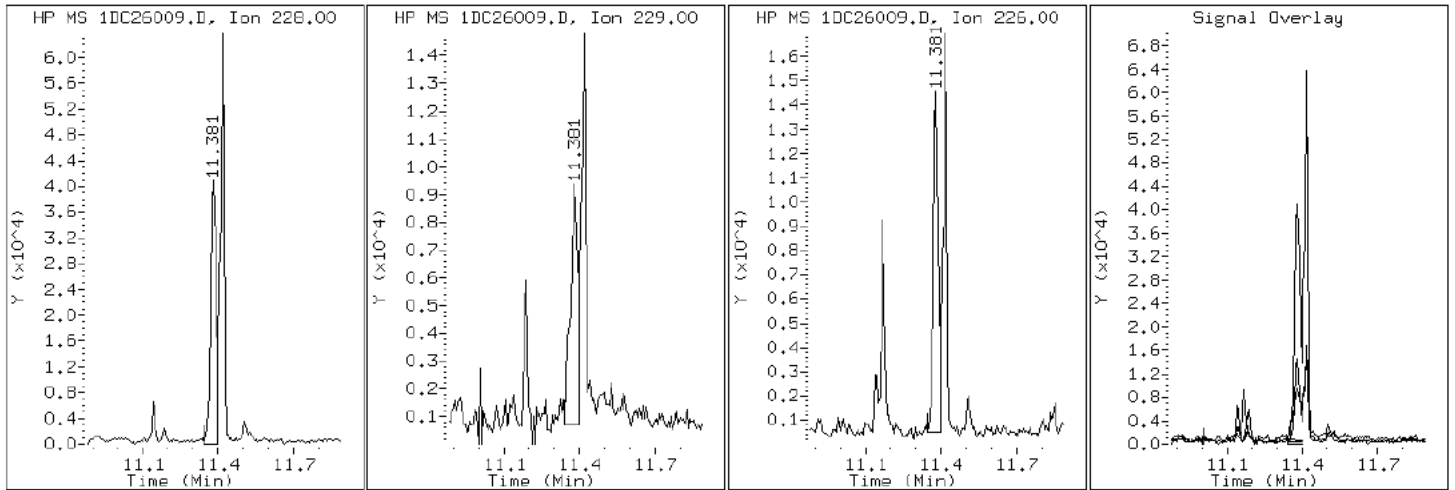
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

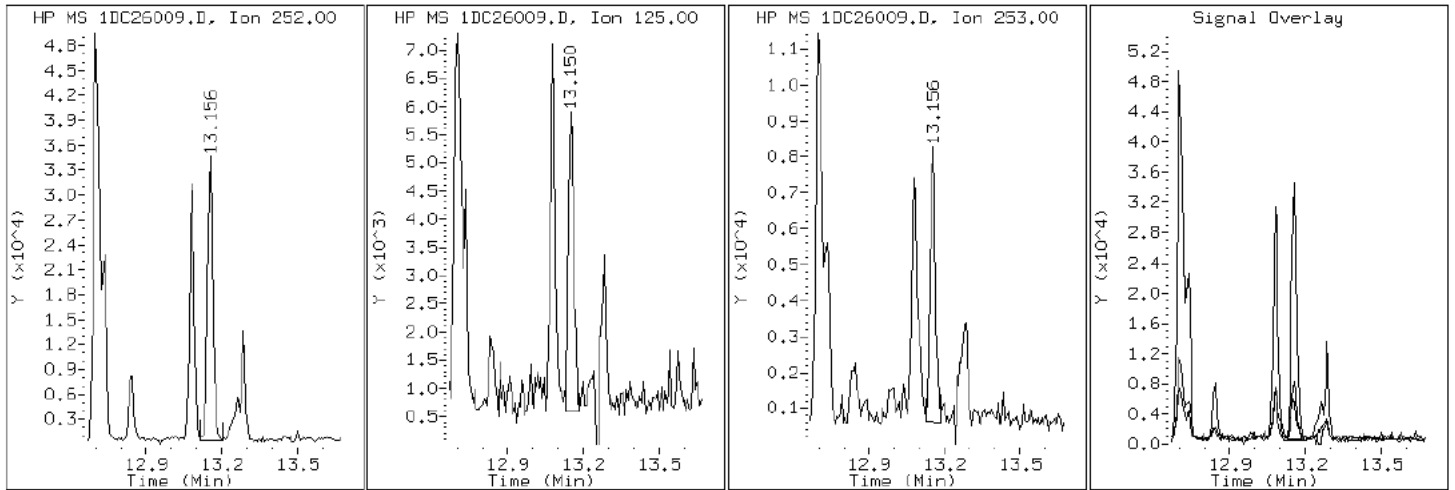
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

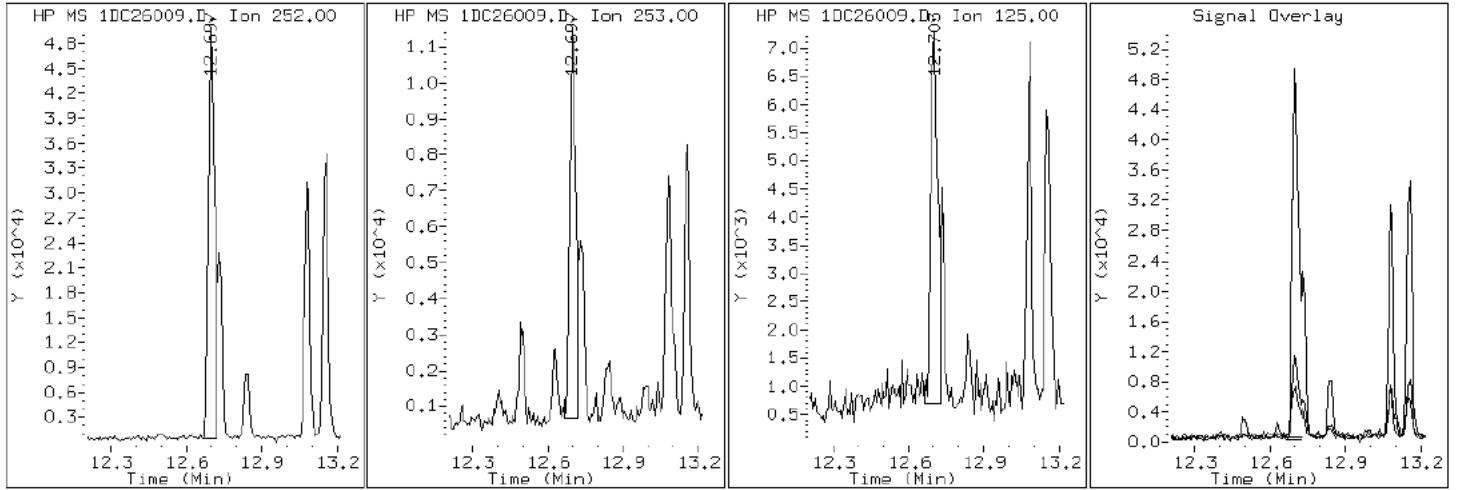
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

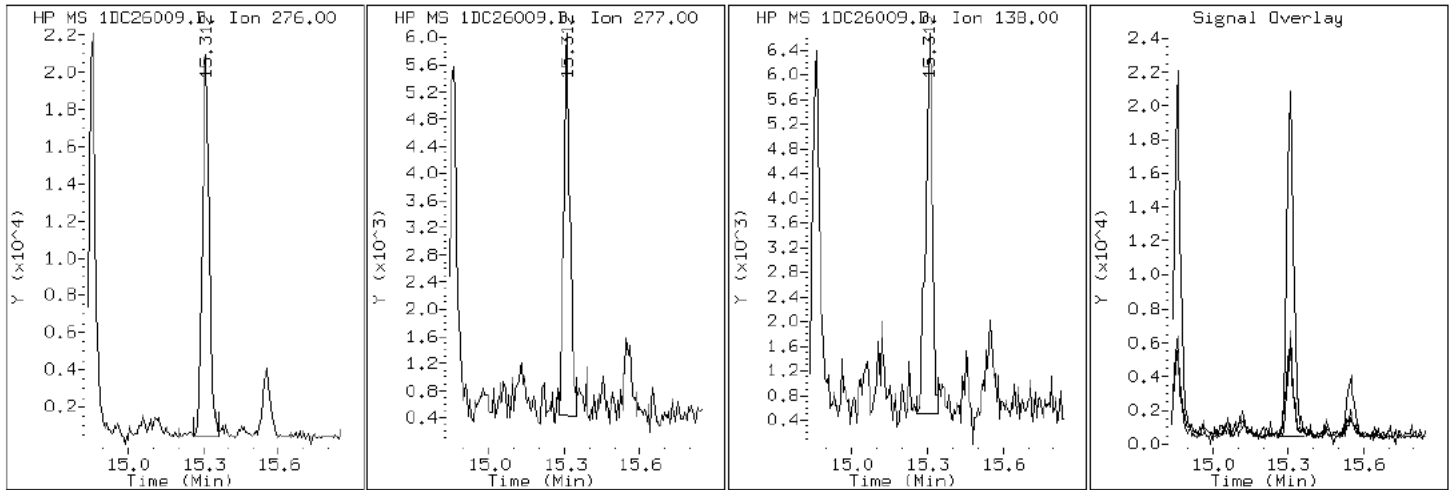
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

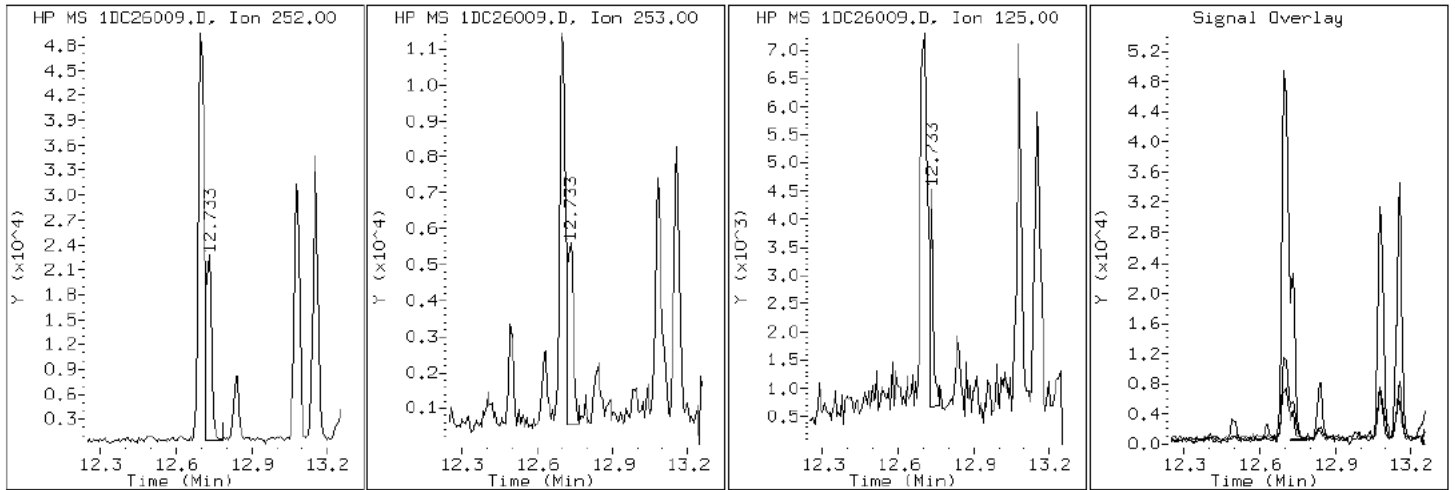
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

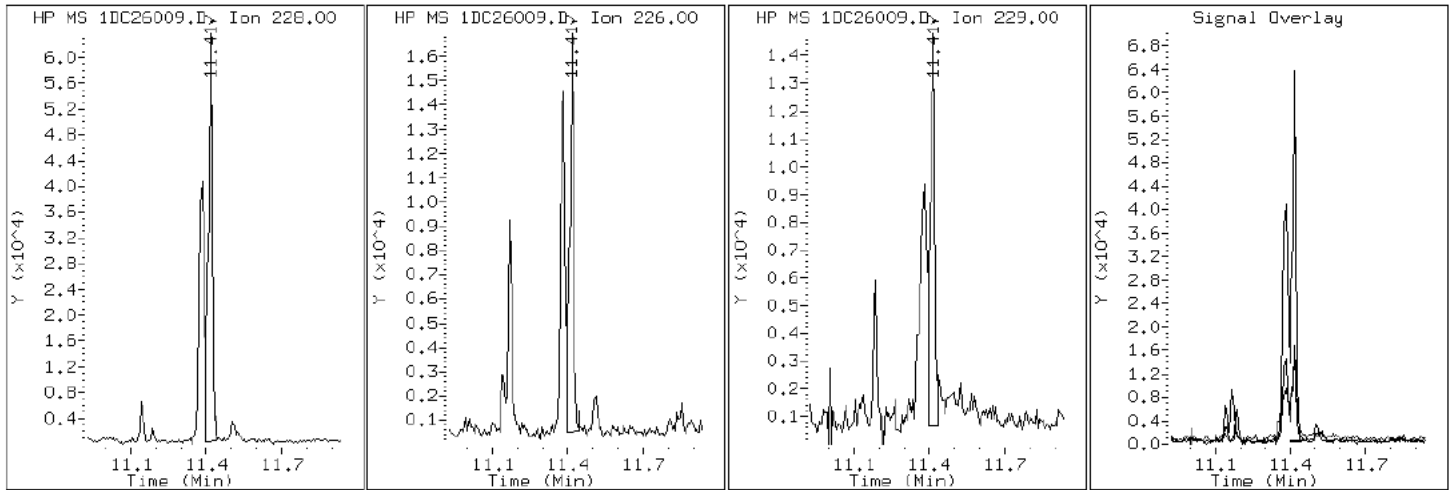
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

18 Chrysene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

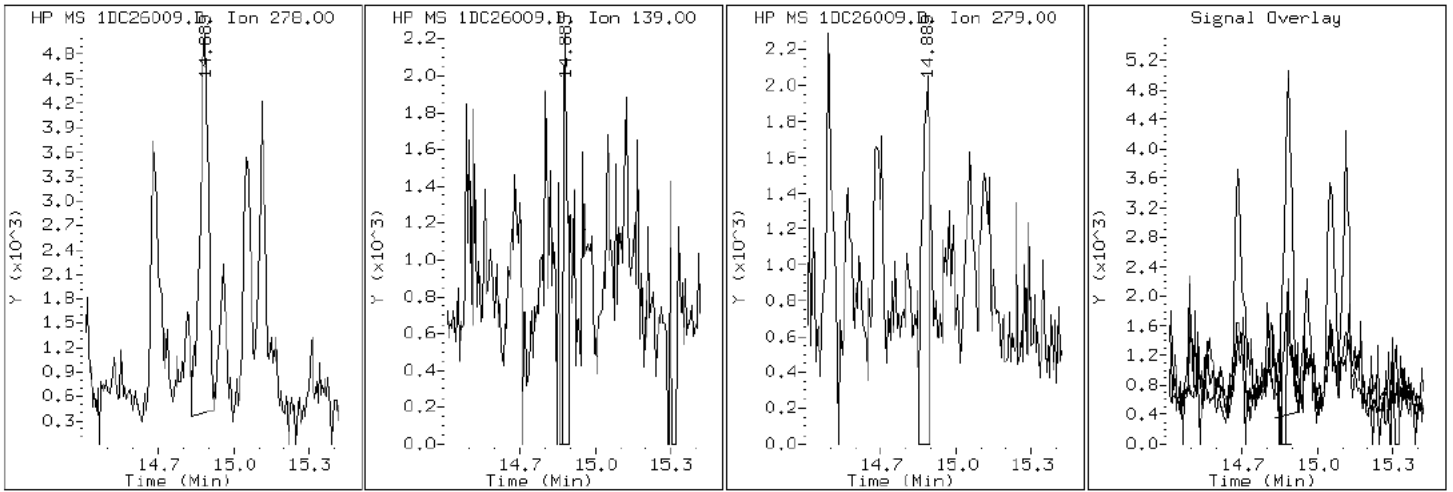
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

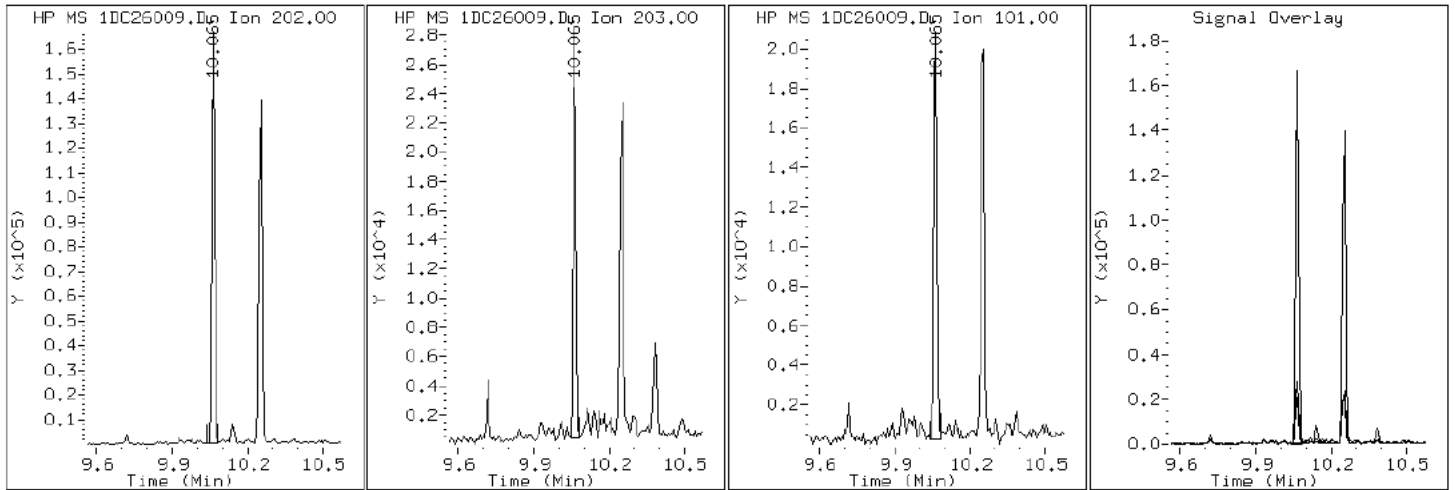
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

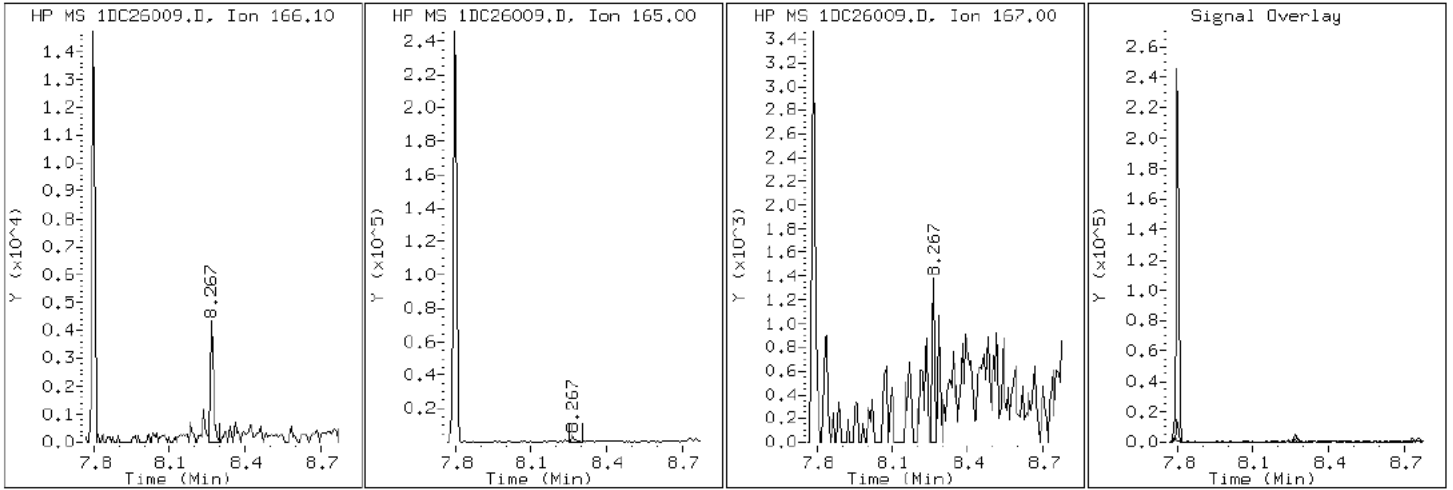
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

8 Fluorene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

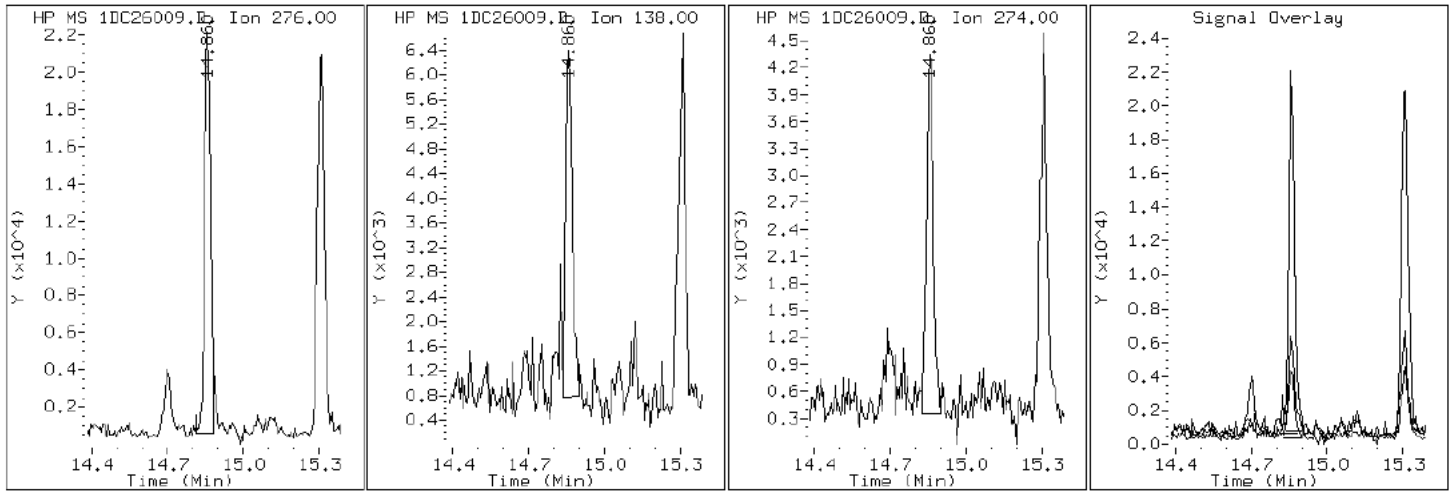
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

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



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

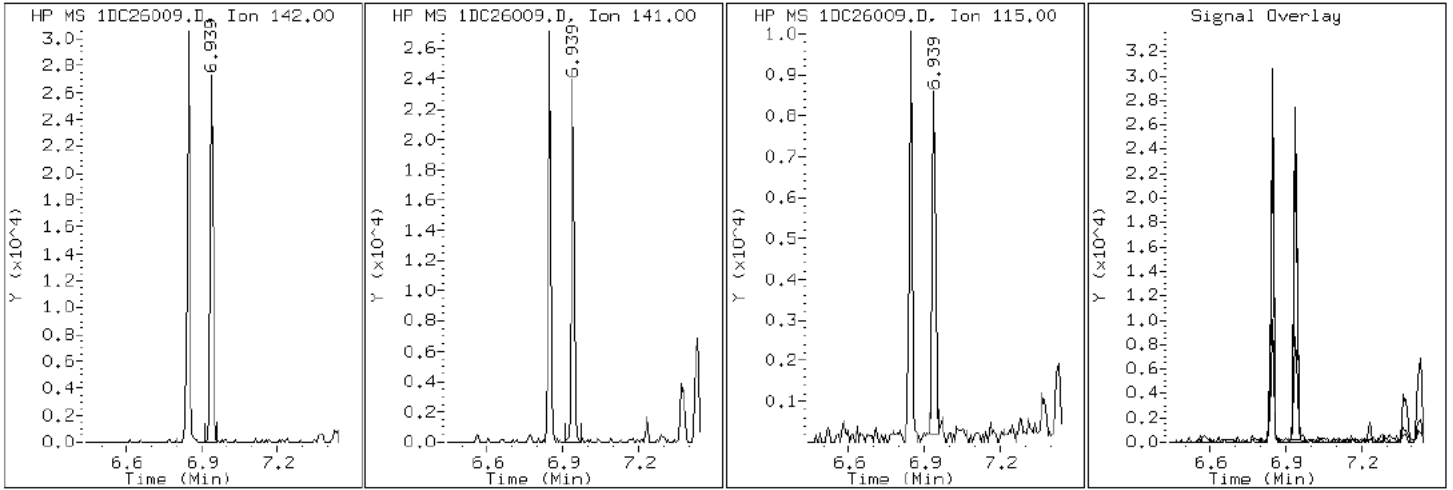
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

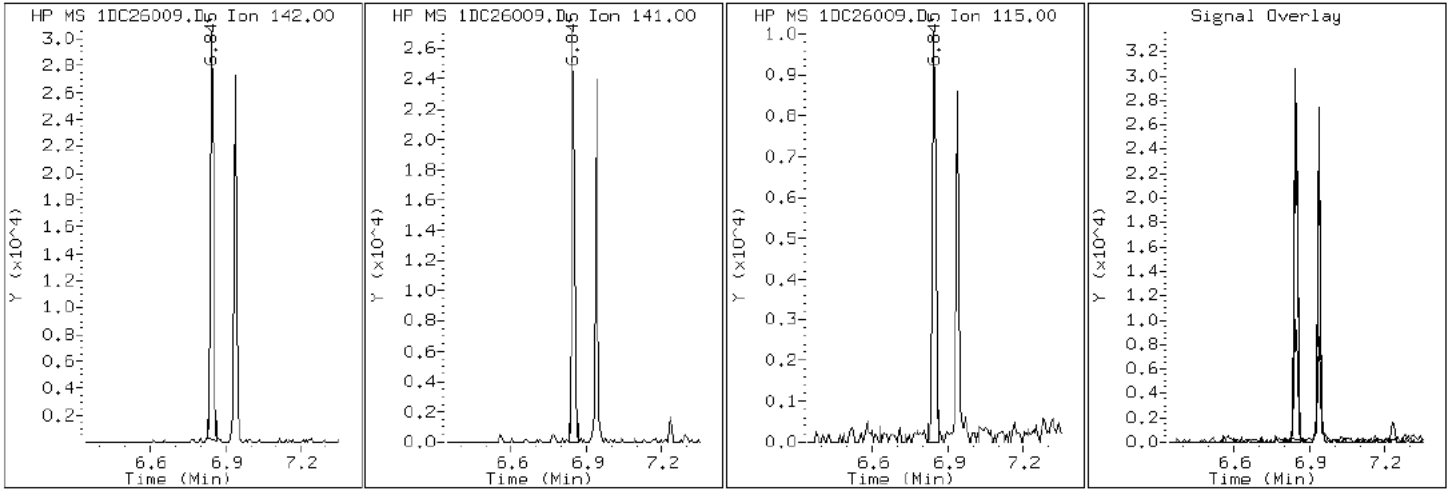
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

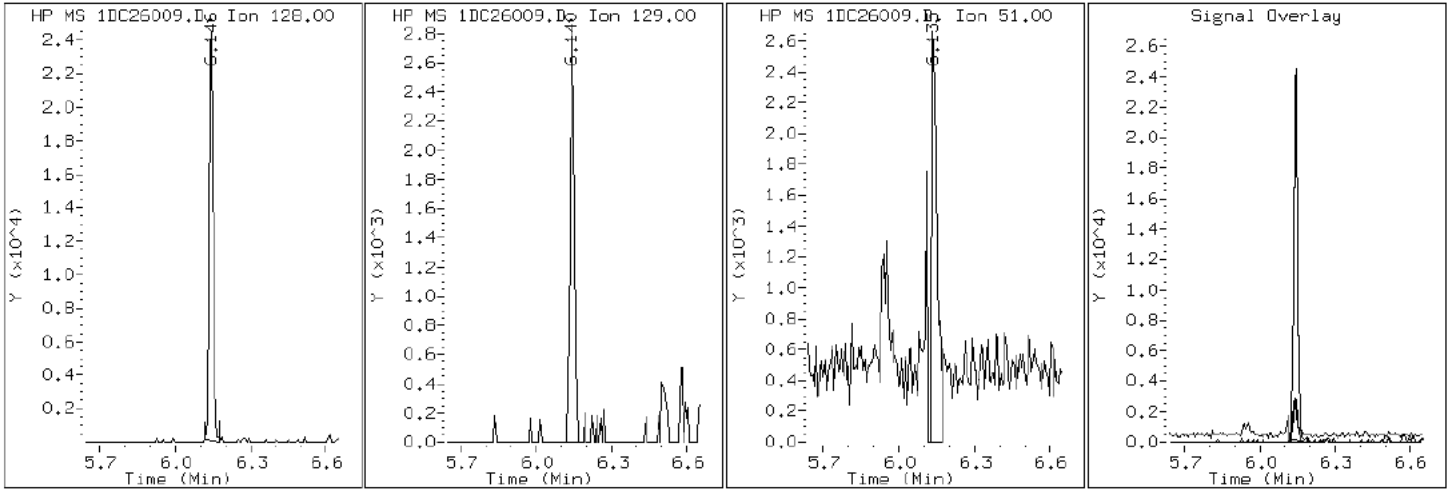
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

2 Naphthalene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

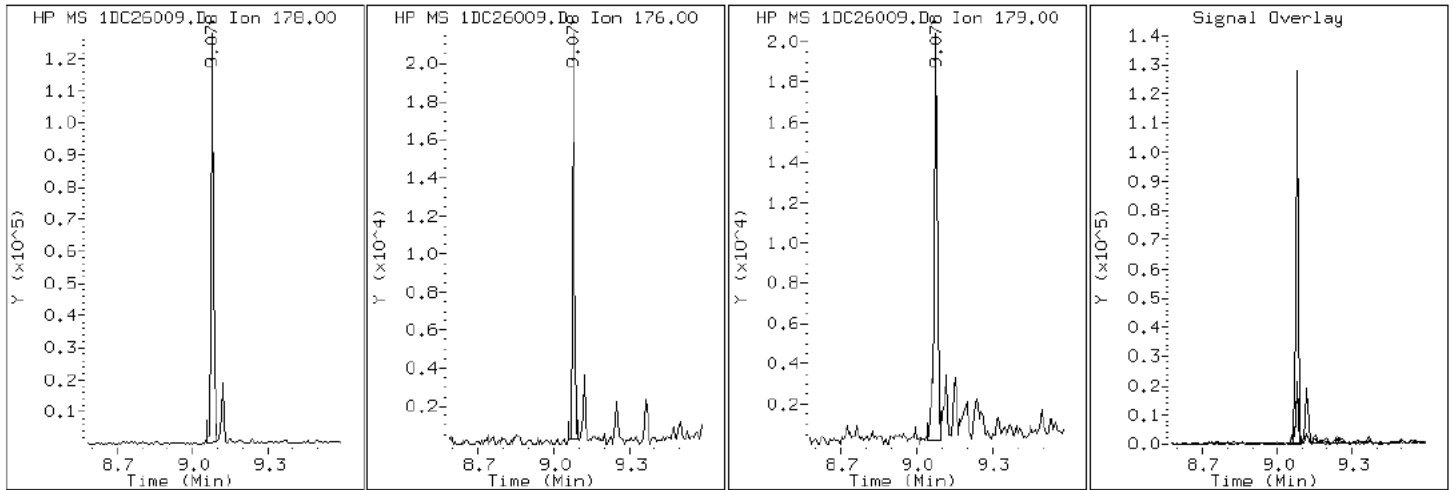
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26009.D

Date: 26-MAR-2013 12:47

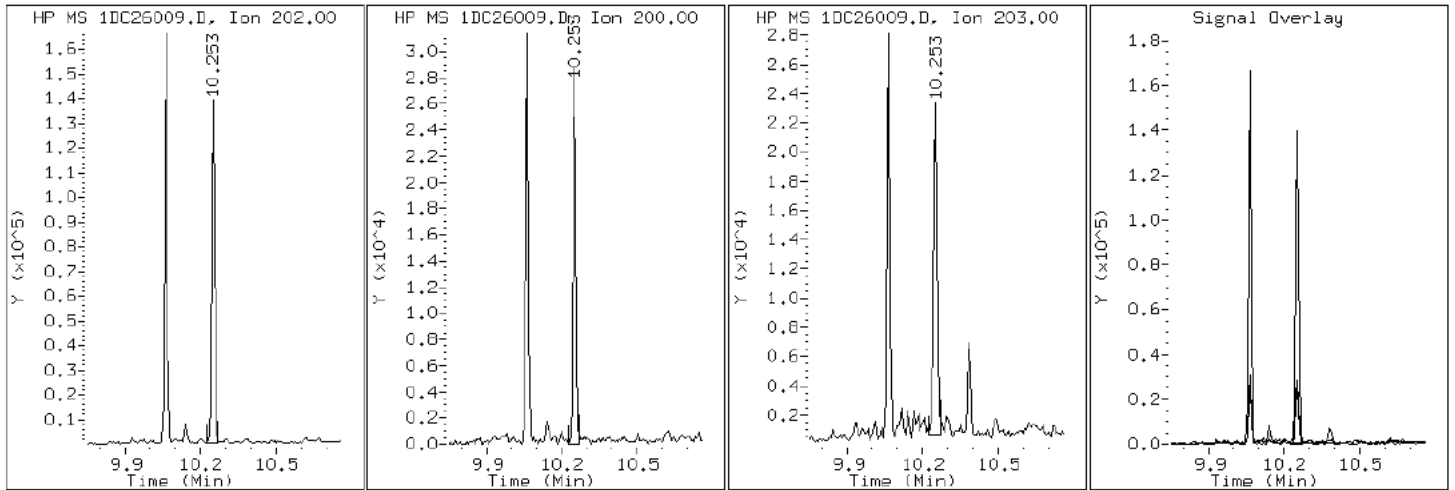
Client ID: CV0021A-CSD

Instrument: BSMSD.i

Sample Info: 680-88348-A-2-A

Operator: SCC

15 Pyrene

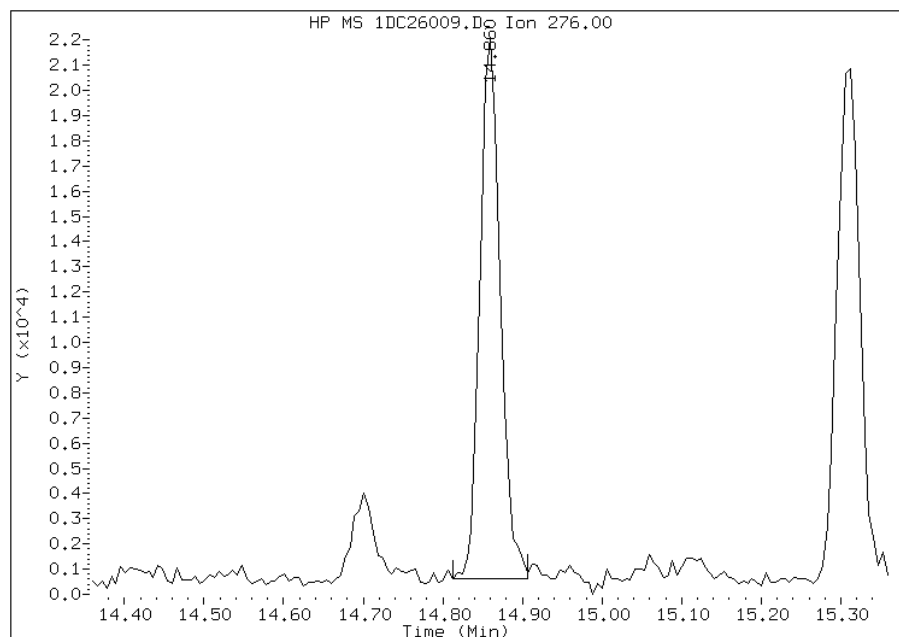


Manual Integration Report

Data File: 1DC26009.D
Inj. Date and Time: 26-MAR-2013 12:47
Instrument ID: BSMSD.i
Client ID: CV0021A-CSD
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

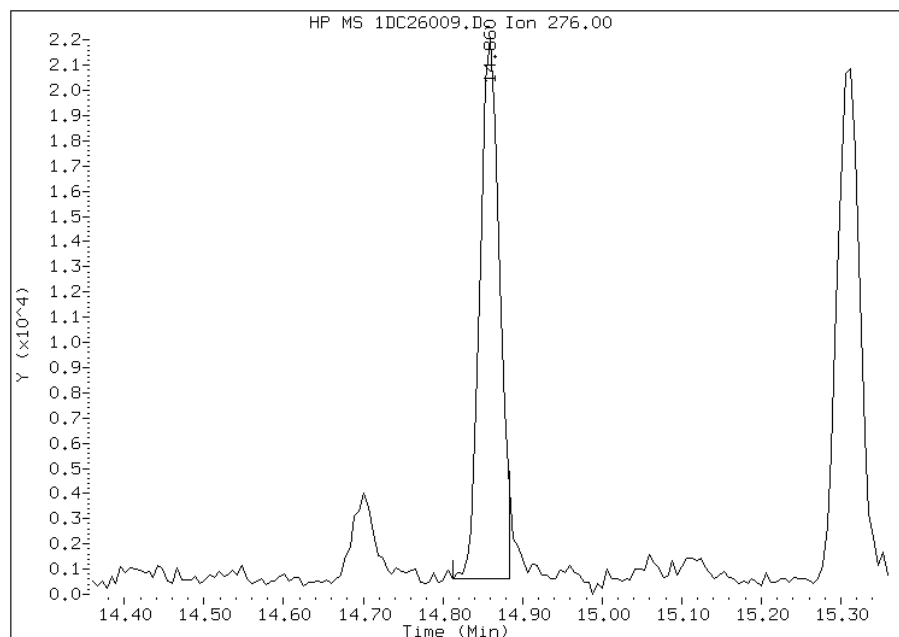
Processing Integration Results

RT: 14.86
Response: 38088
Amount: 1
Conc: 185



Manual Integration Results

RT: 14.86
Response: 36694
Amount: 1
Conc: 178



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 13:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0021B-CS Lab Sample ID: 680-88348-3
 Matrix: Solid Lab File ID: 1CC25034.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:23
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.08(g) Date Analyzed: 03/25/2013 22:08
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135753 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	15	J	51	6.4
120-12-7	Anthracene	50		11	5.4
56-55-3	Benzo[a]anthracene	260		10	5.0
50-32-8	Benzo[a]pyrene	260		13	6.7
205-99-2	Benzo[b]fluoranthene	390		16	7.9
191-24-2	Benzo[g,h,i]perylene	200		26	5.7
207-08-9	Benzo[k]fluoranthene	160		10	4.6
218-01-9	Chrysene	270		12	5.8
53-70-3	Dibenz(a,h)anthracene	58		26	5.3
206-44-0	Fluoranthene	610		26	5.1
86-73-7	Fluorene	29		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	160		26	9.1
90-12-0	1-Methylnaphthalene	30	J	51	5.7
91-57-6	2-Methylnaphthalene	35	J	51	9.1
91-20-3	Naphthalene	30	J	51	5.7
85-01-8	Phenanthrene	360		10	5.0
129-00-0	Pyrene	590		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25034.D
 Lab Smp Id: 680-88348-A-3-A Client Smp ID: CV0021B-CS
 Inj Date : 25-MAR-2013 22:08
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-A-3-A
 Misc Info : 680-88348-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
 Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 34
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	22.715	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.733	3.733	(1.000)	980063	40.0000	
* 6 Acenaphthene-d10	164		4.821	4.821	(1.000)	800411	40.0000	
* 10 Phenanthrene-d10	188		5.768	5.768	(1.000)	1468448	40.0000	
\$ 14 o-Terphenyl	230		6.021	6.021	(1.044)	173230	7.81334	670.4095
* 18 Chrysene-d12	240		7.709	7.715	(1.000)	1497229	40.0000	
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1388181	40.0000	
2 Naphthalene	128		3.745	3.745	(1.003)	8798	0.34482	29.5866(Q)
3 2-Methylnaphthalene	142		4.174	4.174	(1.118)	7039	0.41359	35.4869
4 1-Methylnaphthalene	142		4.233	4.233	(1.134)	5414	0.34928	29.9689
5 Acenaphthylene	152		4.733	4.733	(0.982)	5652	0.17515	15.0281
9 Fluorene	166		5.162	5.162	(1.071)	8450	0.33312	28.5824
11 Phenanthrene	178		5.786	5.786	(1.003)	179457	4.22639	362.6381
12 Anthracene	178		5.821	5.821	(1.009)	24341	0.58615	50.2939
13 Carbazole	167		5.927	5.927	(1.028)	26994	0.73126	62.7446

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.621	6.621	(1.148)	331532	7.12973	611.7535
16 Pyrene	202	6.792	6.792	(0.881)	278976	6.93351	594.9178
17 Benzo(a)anthracene	228	7.703	7.703	(0.999)	129509	2.99700	257.1520
19 Chrysene	228	7.733	7.733	(1.003)	136380	3.15363	270.5917
20 Benzo(b)fluoranthene	252	8.550	8.550	(0.961)	162888	4.48995	385.2524(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.963)	69573	1.86944	160.4040(QM)
22 Benzo(a)pyrene	252	8.839	8.845	(0.993)	106830	3.03166	260.1260
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.062	(1.130)	63701	1.92165	164.8837(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.080	(1.132)	22050	0.68004	58.3497
26 Benzo(g,h,i)perylene	276	10.409	10.415	(1.170)	79427	2.29050	196.5319(M)

QC Flag Legend

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

Data File: 1CC25034.D

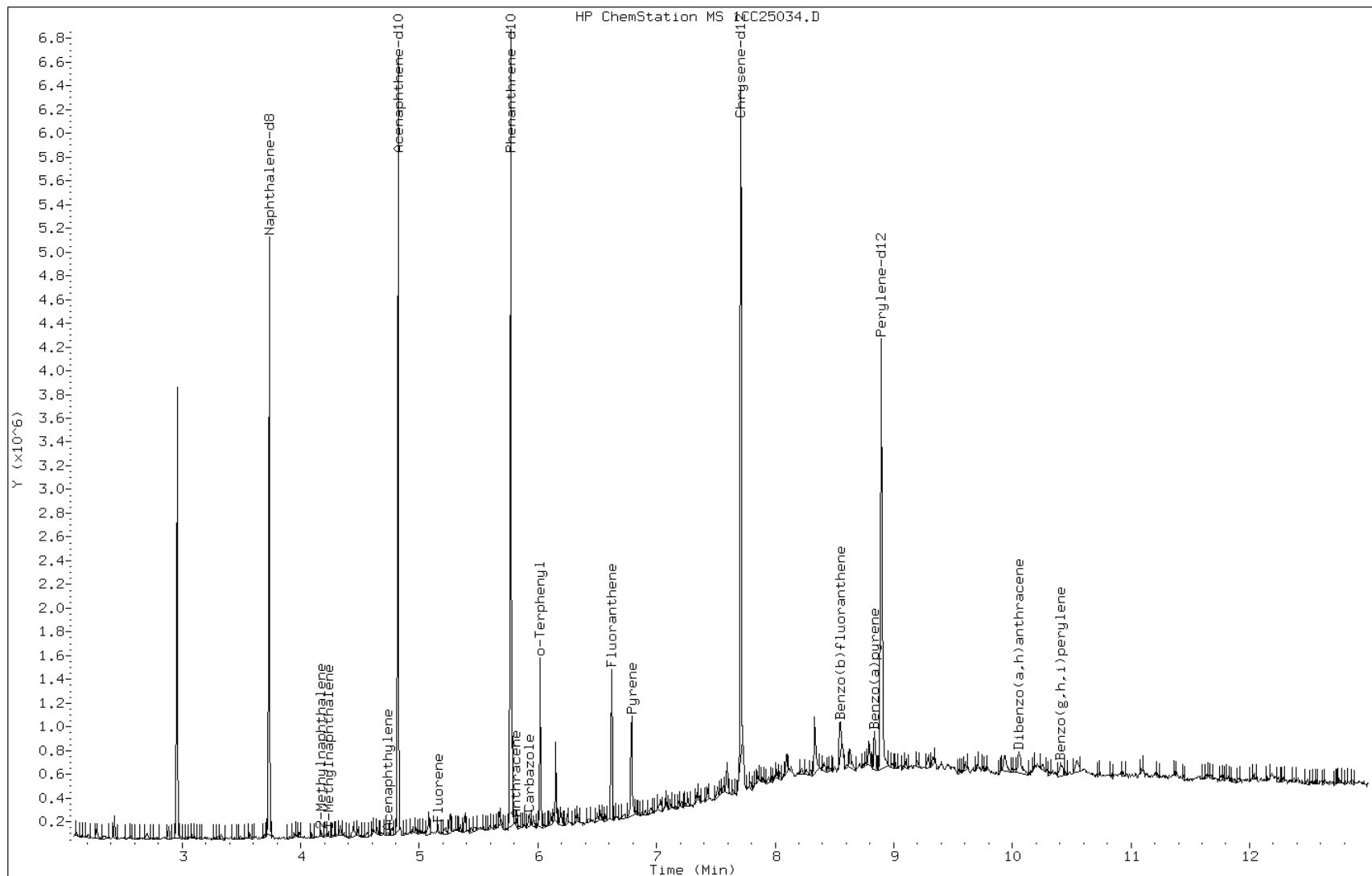
Date: 25-MAR-2013 22:08

Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

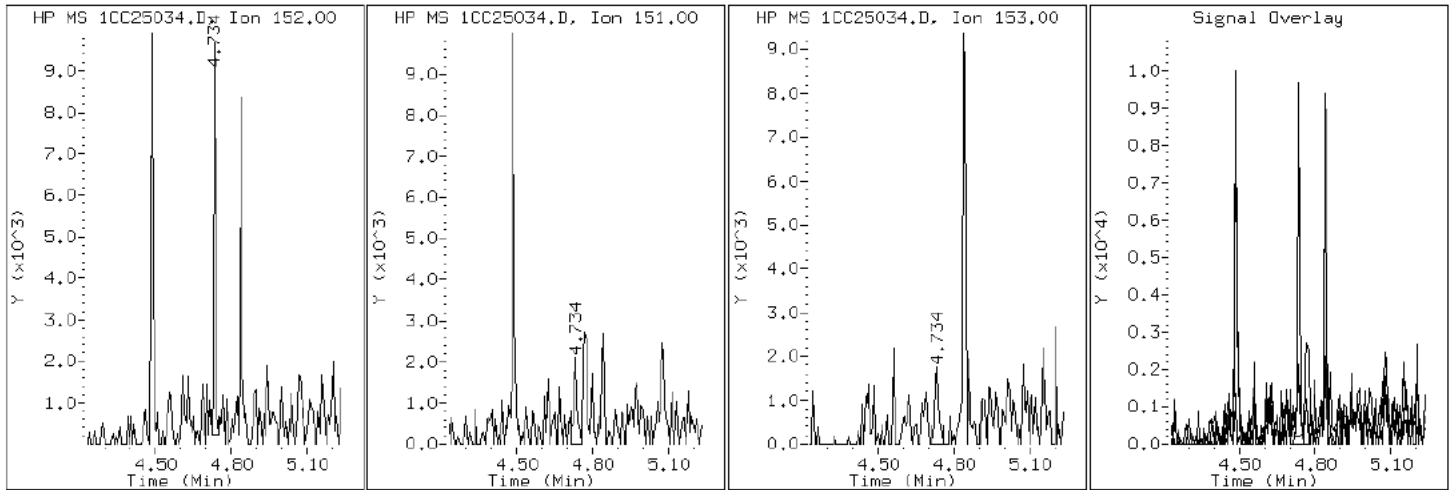
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

5 Acenaphthylene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

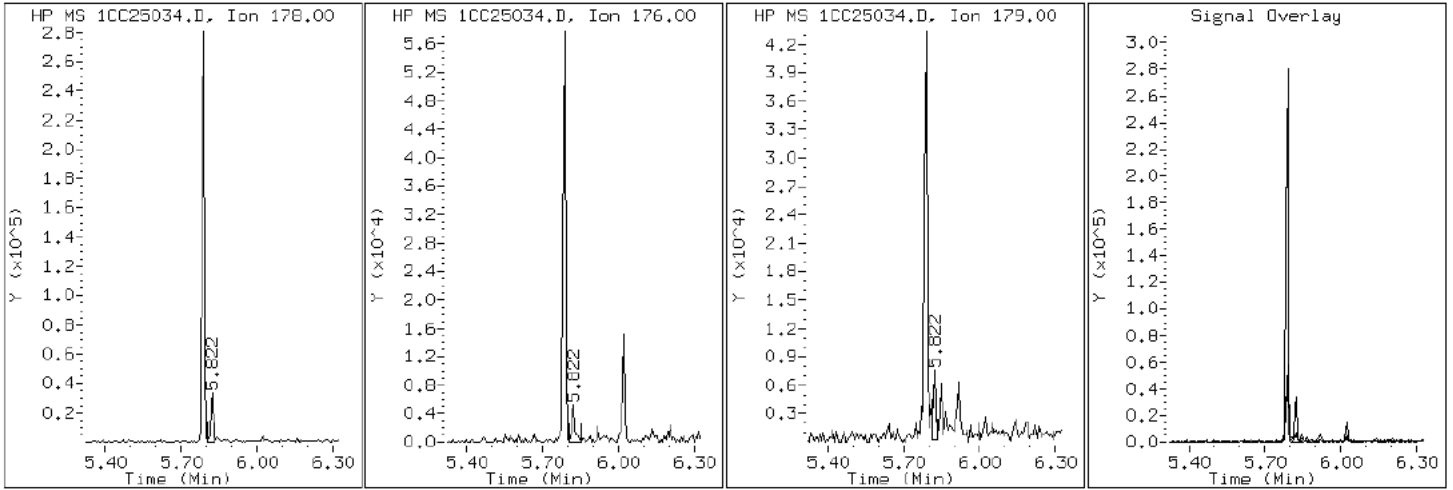
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

12 Anthracene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

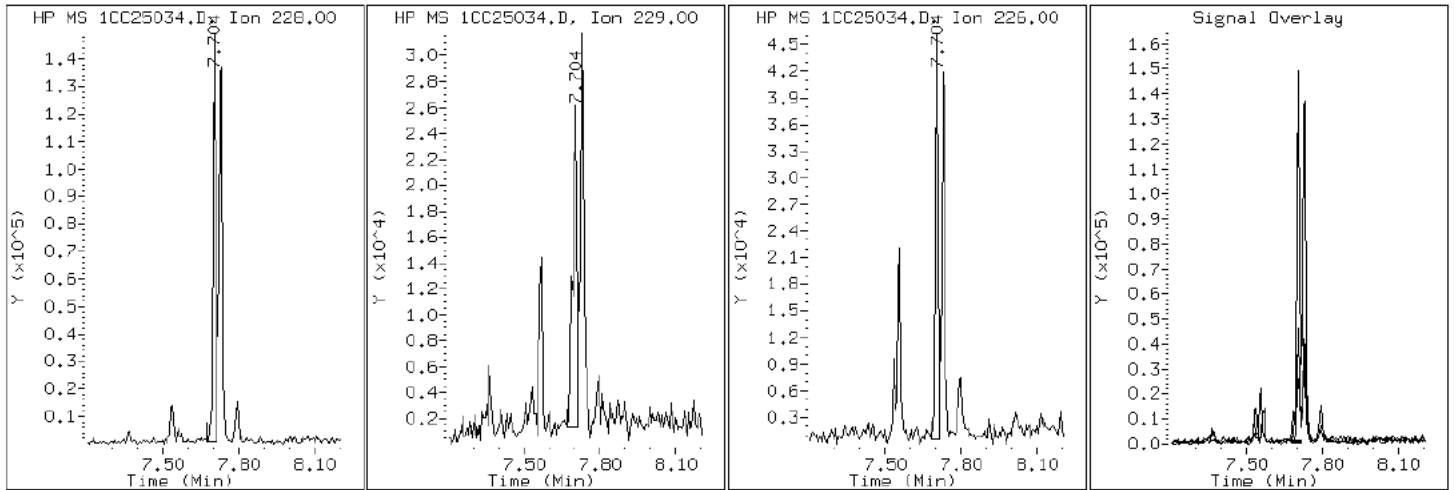
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

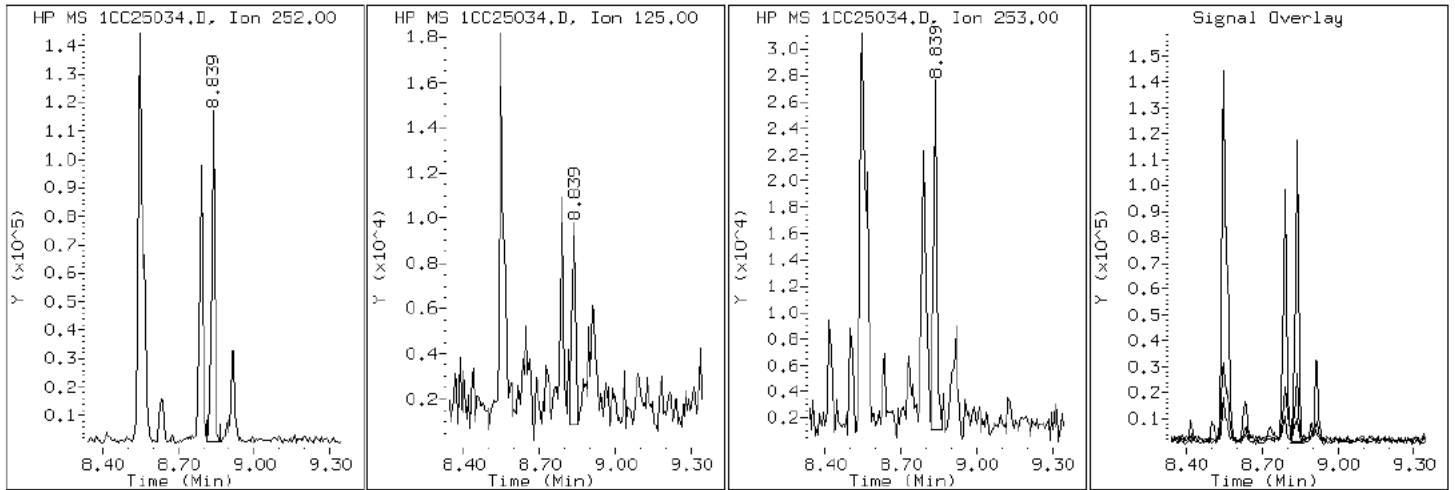
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

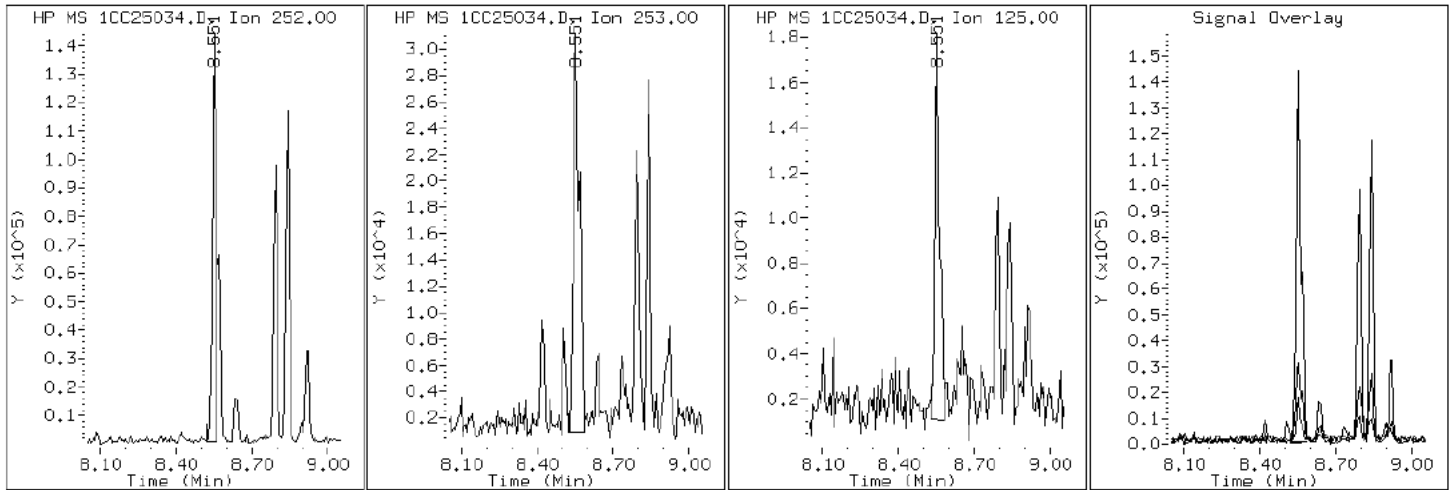
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

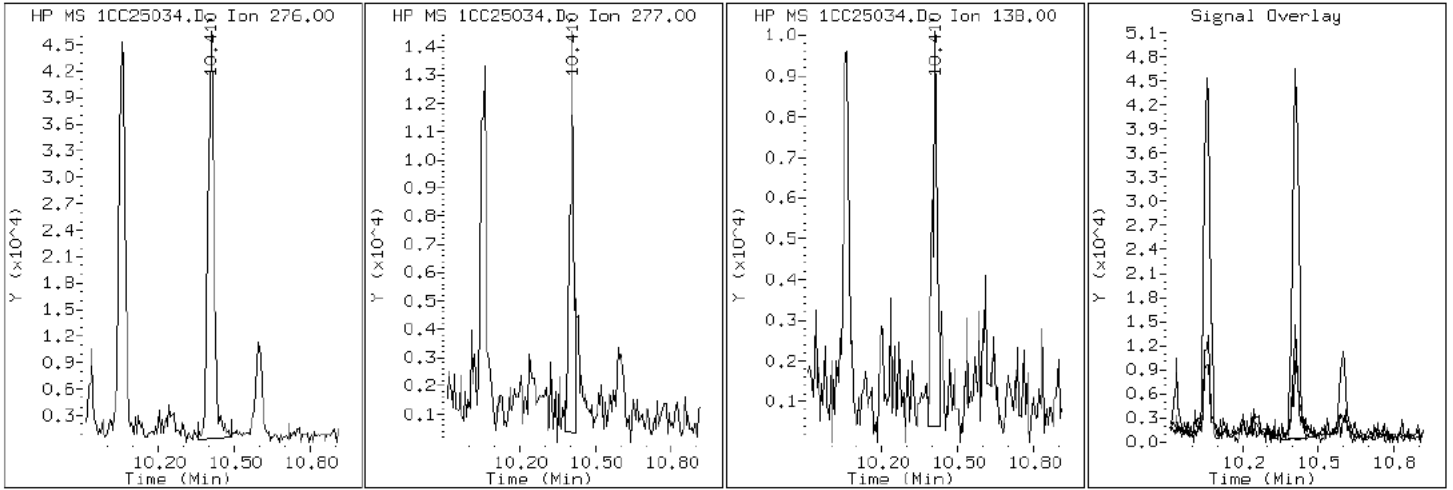
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

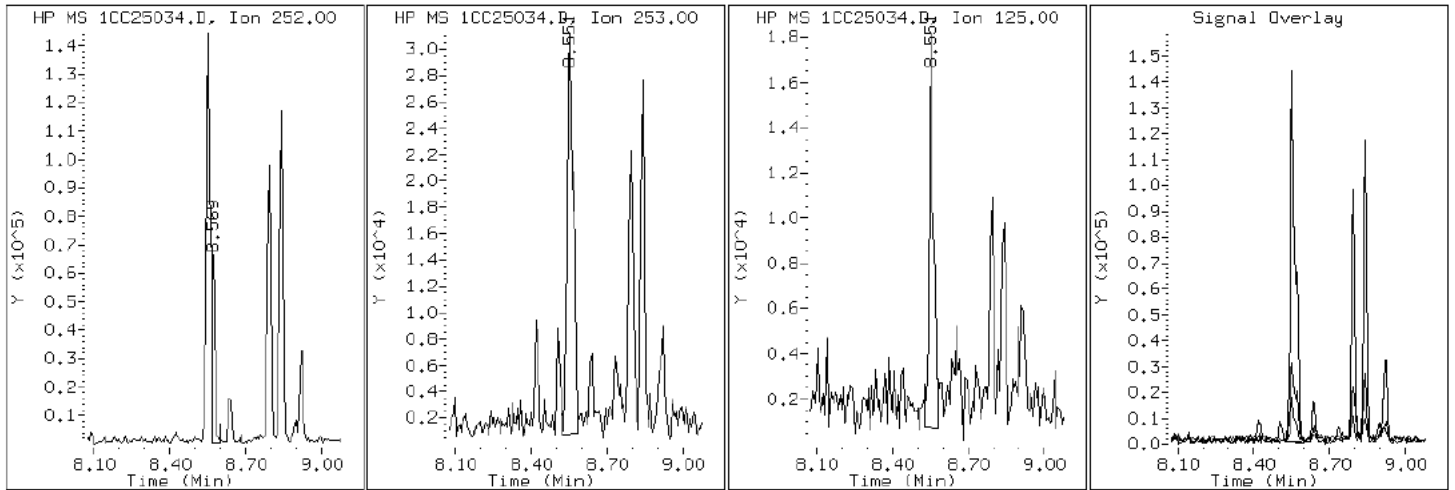
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

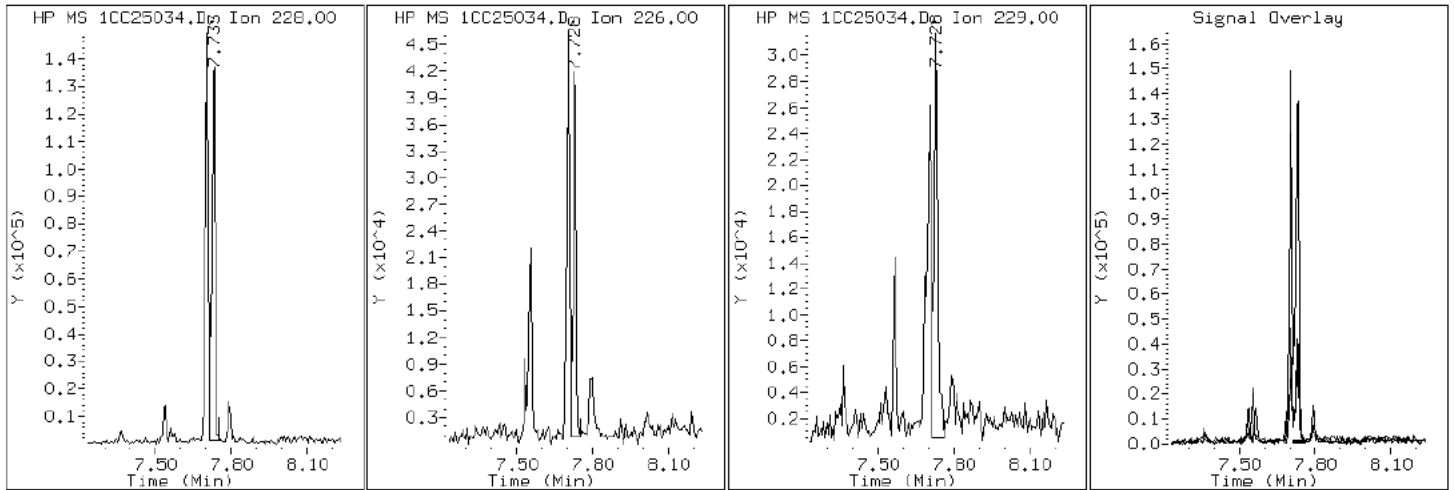
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

19 Chrysene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

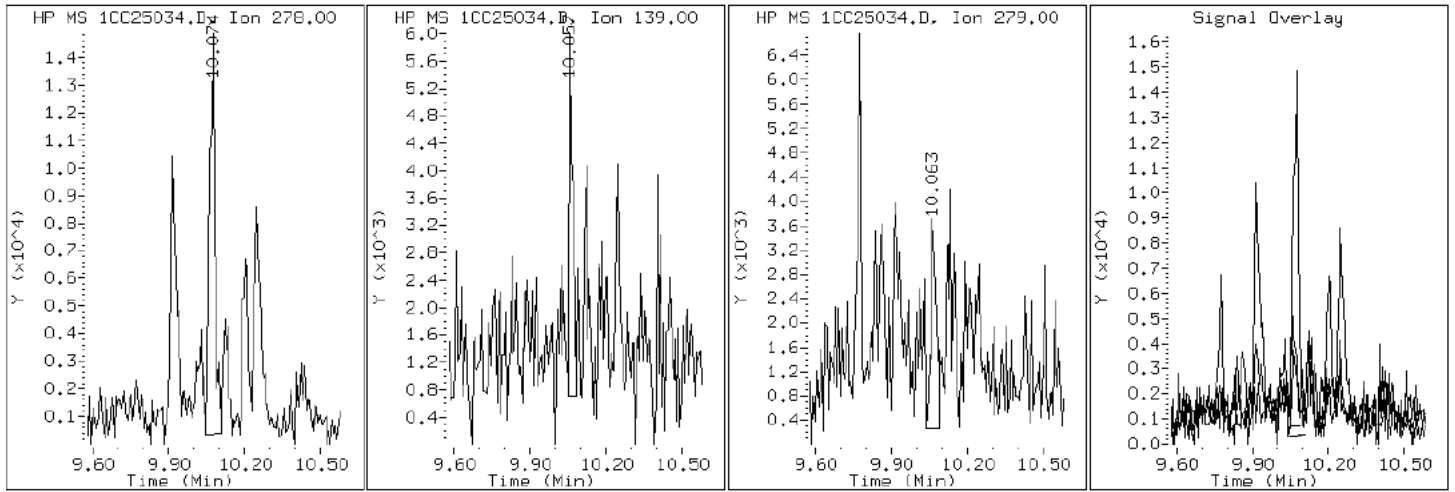
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

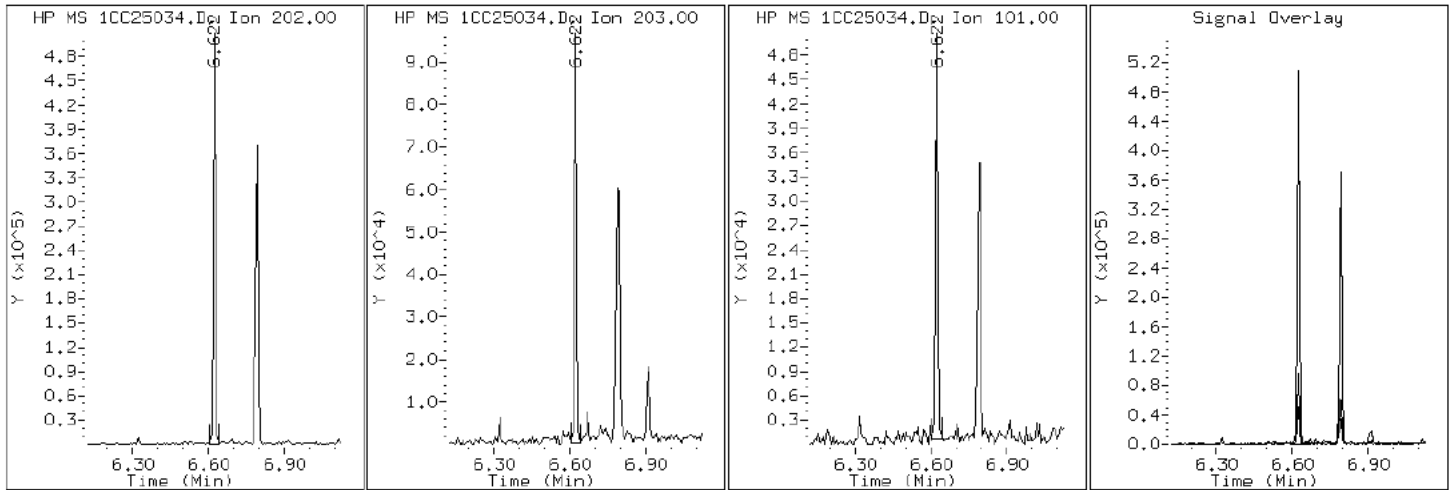
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

15 Fluoranthene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

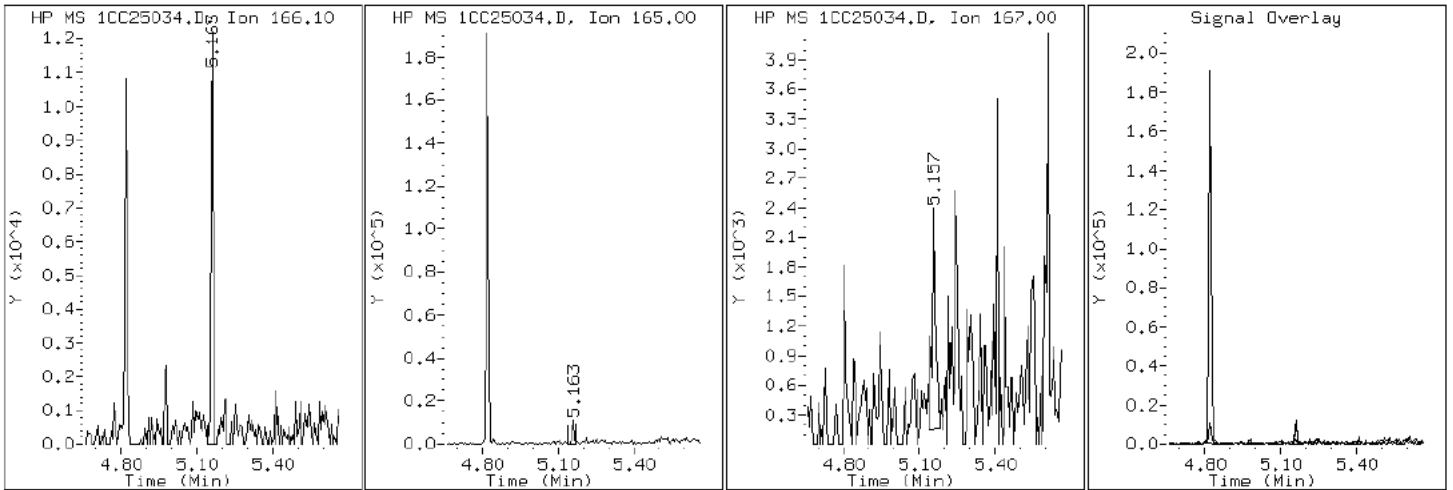
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

9 Fluorene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

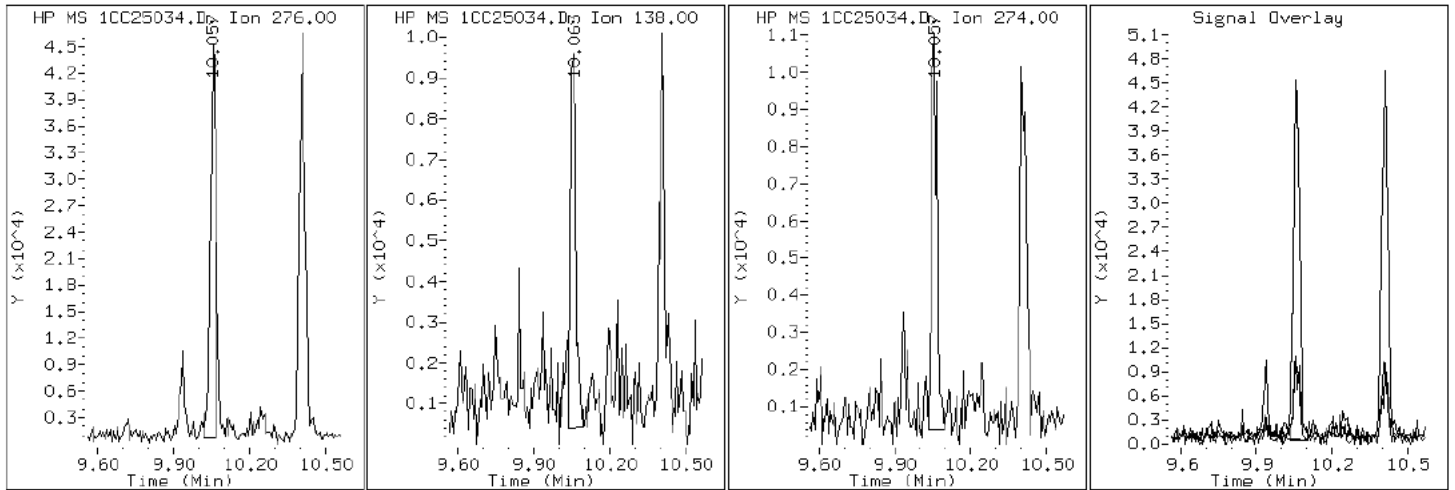
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

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



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

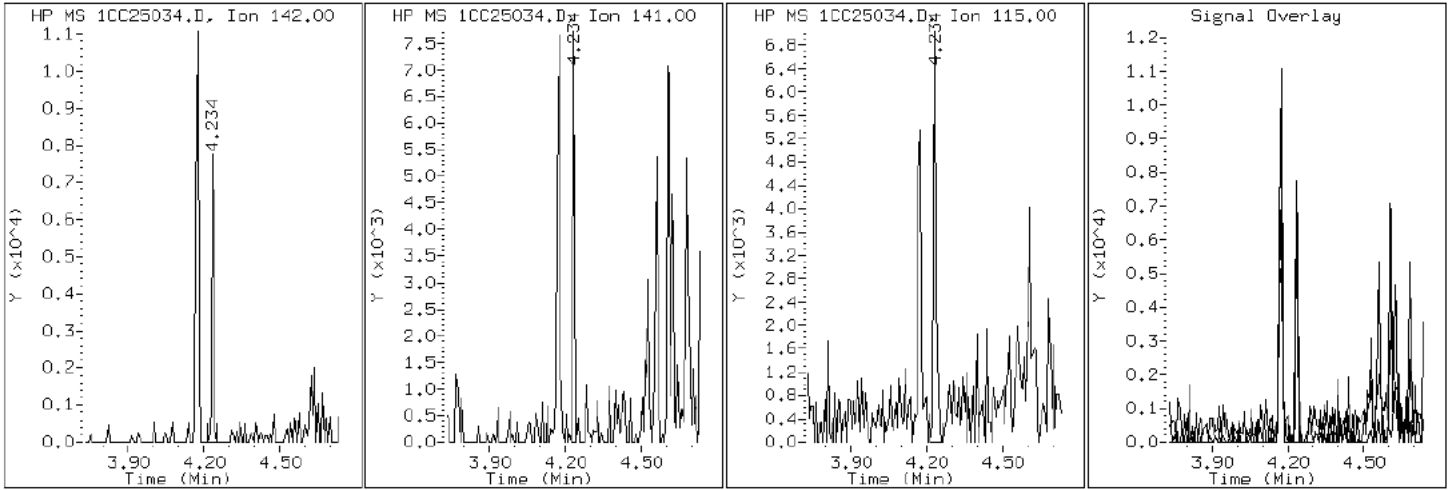
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

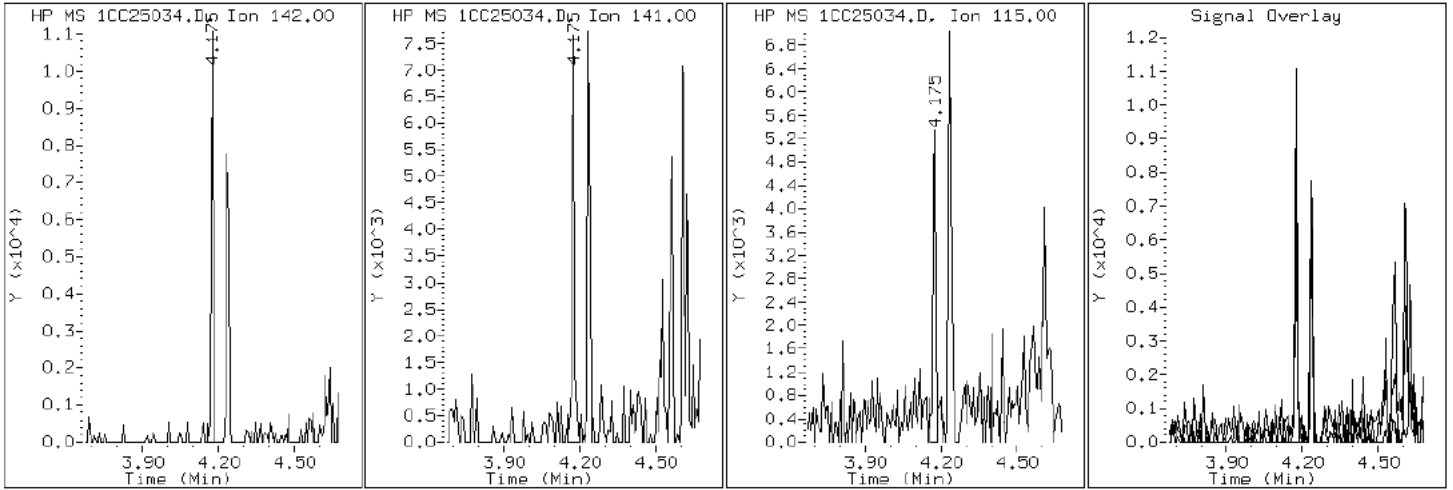
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

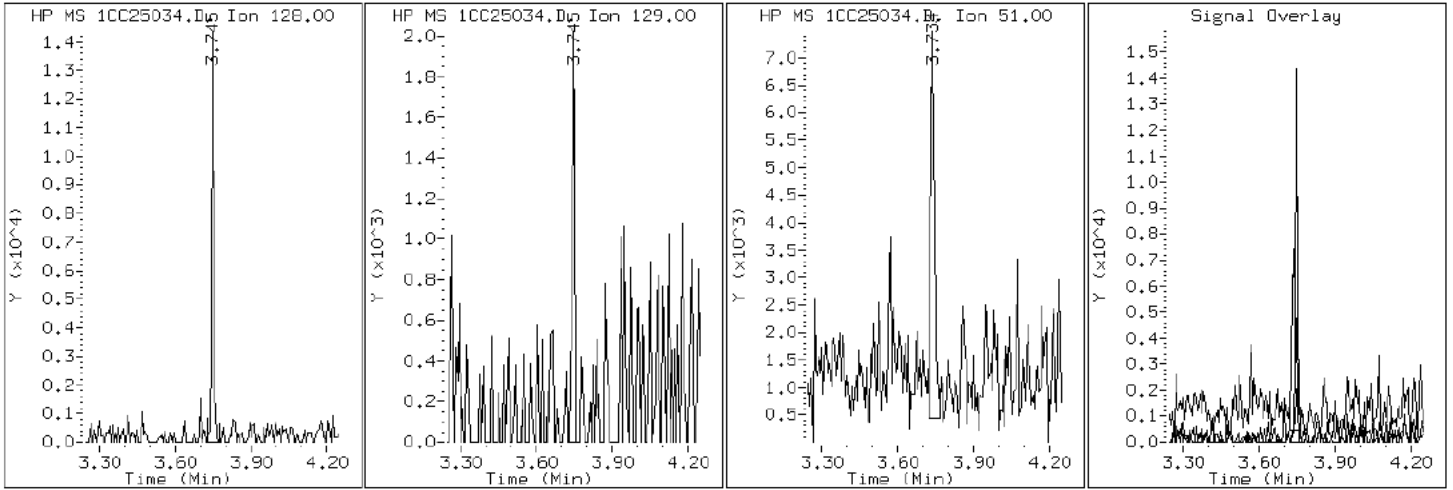
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

2 Naphthalene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

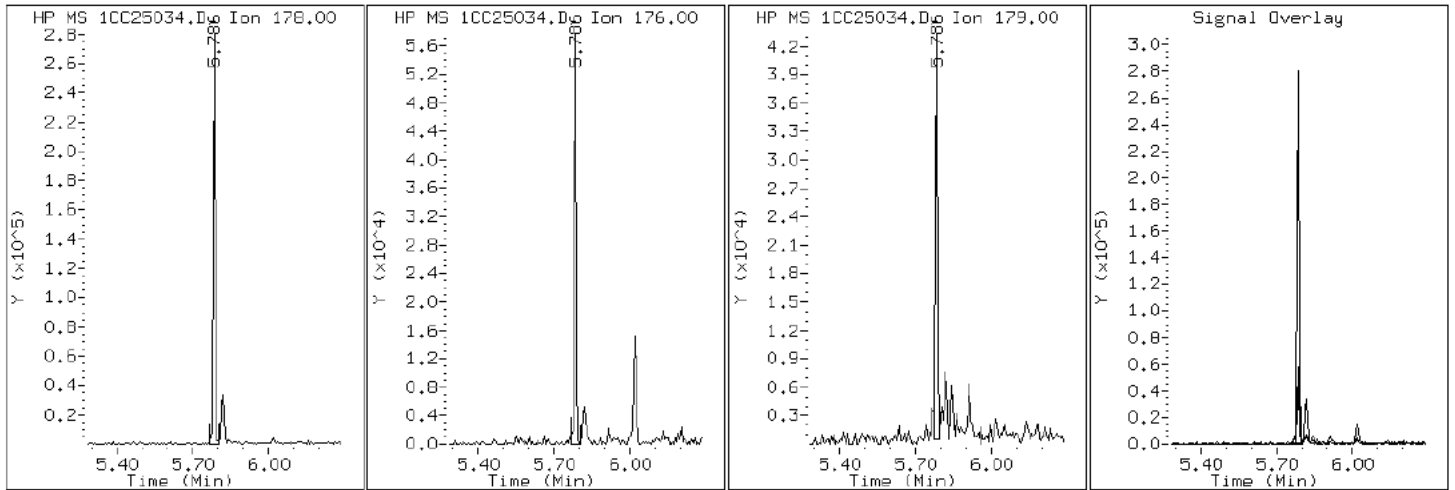
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

11 Phenanthrene



Data File: 1CC25034.D

Date: 25-MAR-2013 22:08

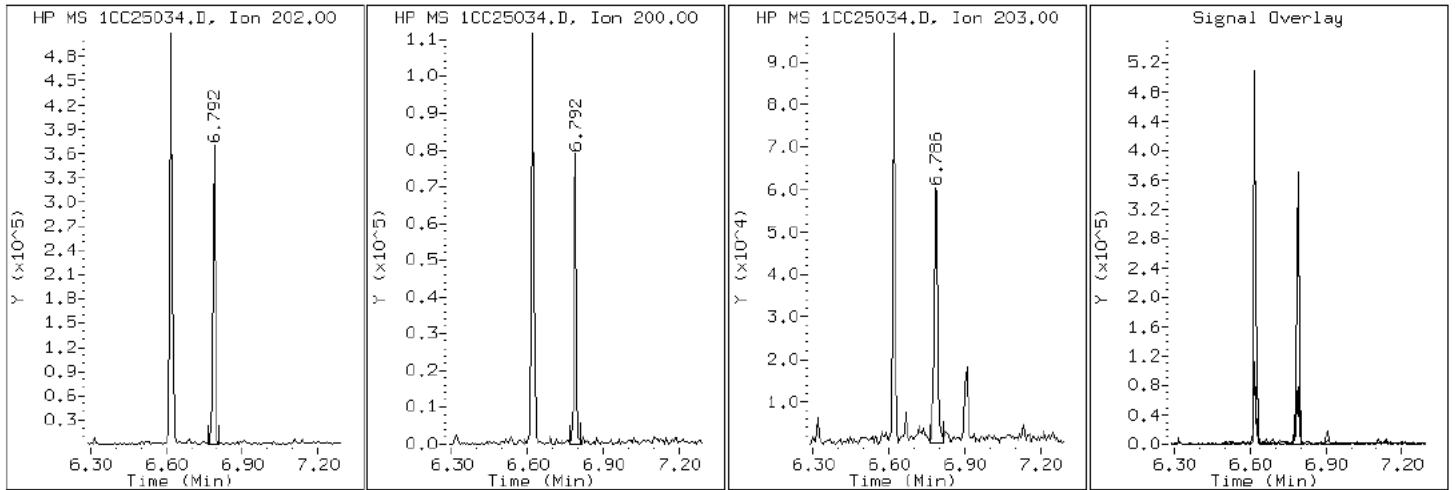
Client ID: CV0021B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-A-3-A

Operator: SCC

16 Pyrene

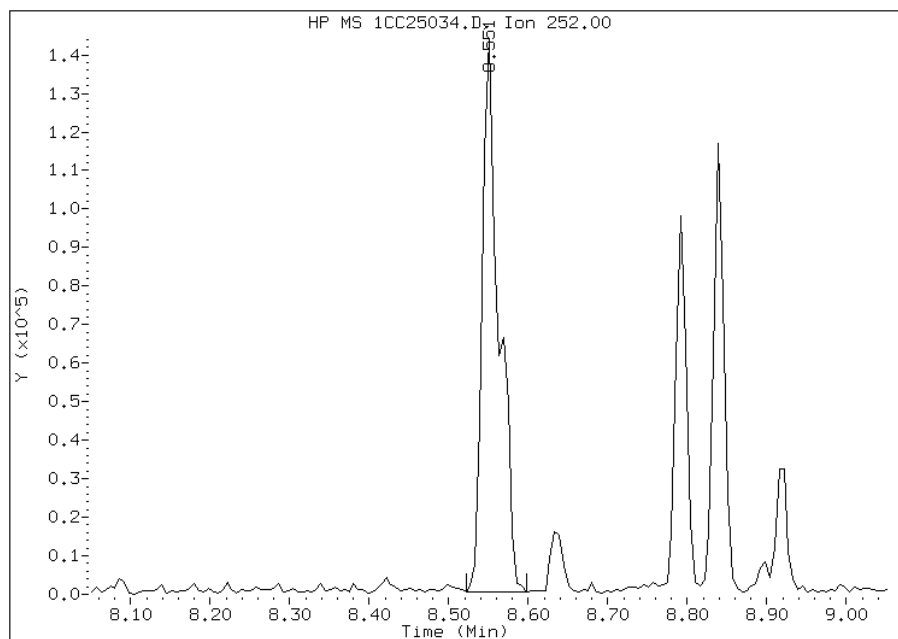


Manual Integration Report

Data File: 1CC25034.D
Inj. Date and Time: 25-MAR-2013 22:08
Instrument ID: BSMC5973.i
Client ID: CV0021B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/26/2013

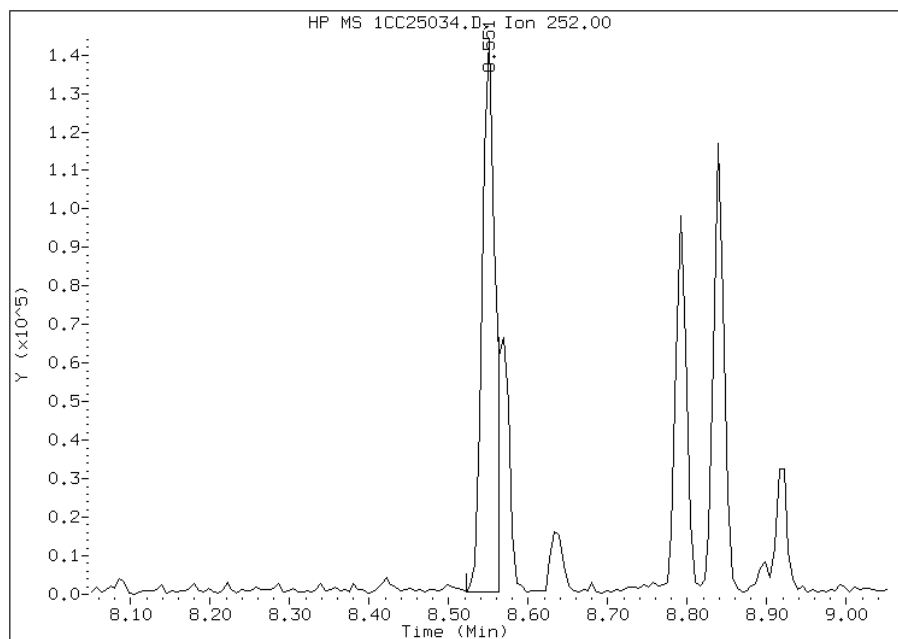
Processing Integration Results

RT: 8.55
Response: 210094
Amount: 6
Conc: 497



Manual Integration Results

RT: 8.55
Response: 162888
Amount: 4
Conc: 385



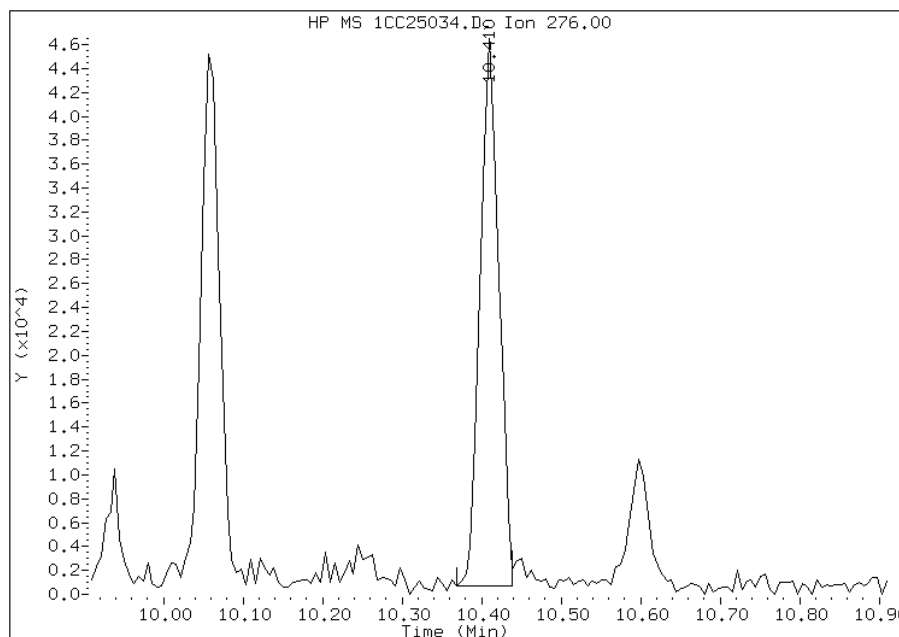
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC25034.D
Inj. Date and Time: 25-MAR-2013 22:08
Instrument ID: BSMC5973.i
Client ID: CV0021B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/26/2013

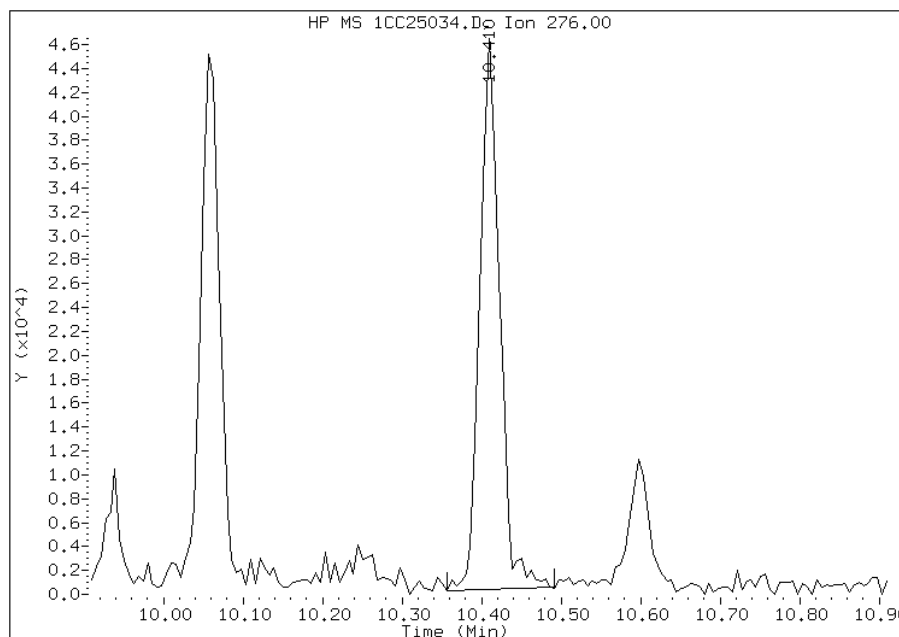
Processing Integration Results

RT: 10.41
Response: 74538
Amount: 2
Conc: 184



Manual Integration Results

RT: 10.41
Response: 79427
Amount: 2
Conc: 197



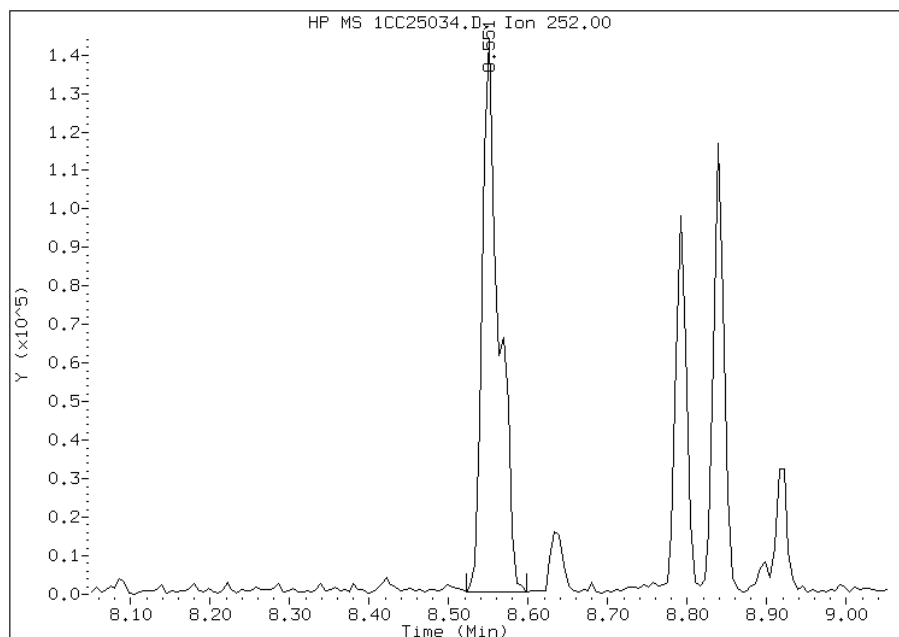
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25034.D
Inj. Date and Time: 25-MAR-2013 22:08
Instrument ID: BSMC5973.i
Client ID: CV0021B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/26/2013

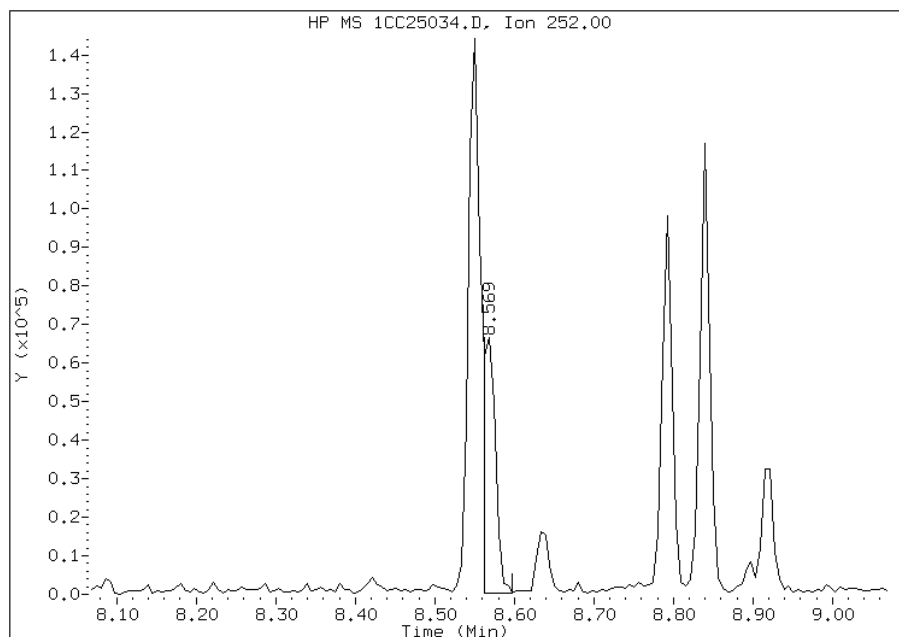
Processing Integration Results

RT: 8.55
Response: 210341
Amount: 6
Conc: 485



Manual Integration Results

RT: 8.57
Response: 69573
Amount: 2
Conc: 160



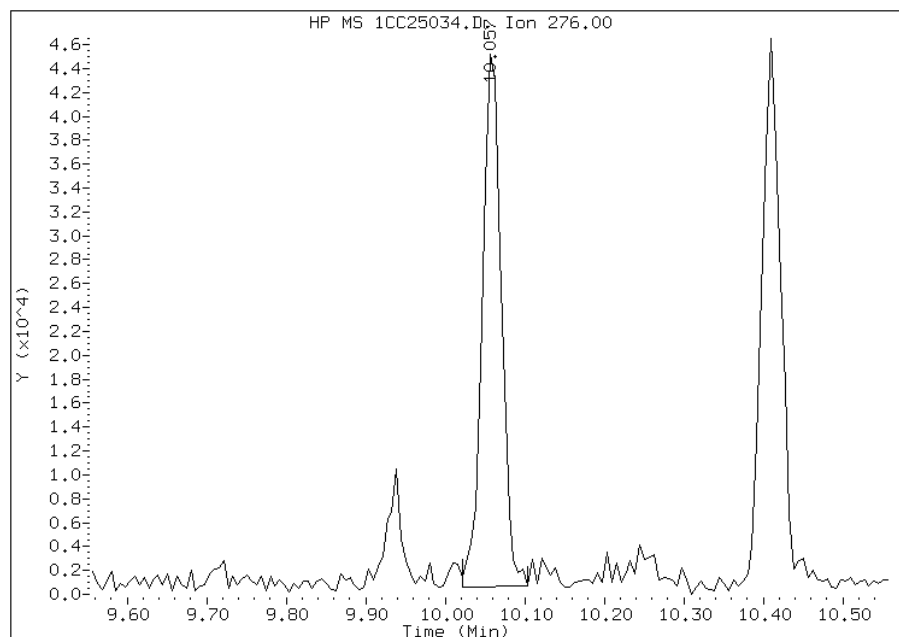
Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC25034.D
Inj. Date and Time: 25-MAR-2013 22:08
Instrument ID: BSMC5973.i
Client ID: CV0021B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

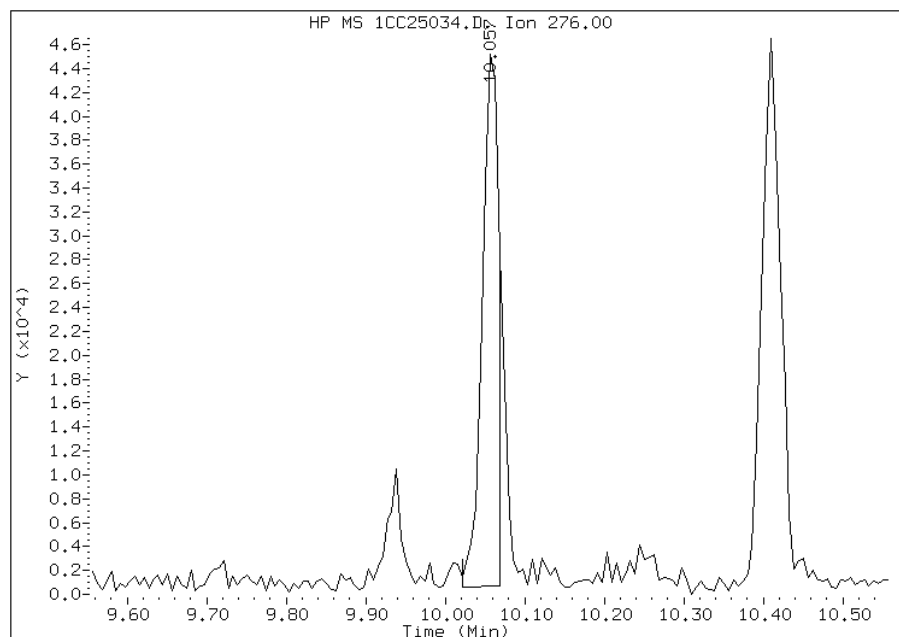
Processing Integration Results

RT: 10.06
Response: 73540
Amount: 2
Conc: 190



Manual Integration Results

RT: 10.06
Response: 63701
Amount: 2
Conc: 165



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0093A-CS Lab Sample ID: 680-88348-4
 Matrix: Solid Lab File ID: 1CC21010.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:32
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 14.92(g) Date Analyzed: 03/21/2013 13:42
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	230	U	230	29
120-12-7	Anthracene	42	J	49	24
56-55-3	Benzo[a]anthracene	240		46	23
50-32-8	Benzo[a]pyrene	160		60	30
205-99-2	Benzo[b]fluoranthene	350		71	35
191-24-2	Benzo[g,h,i]perylene	200		120	26
207-08-9	Benzo[k]fluoranthene	93		46	21
218-01-9	Chrysene	550	F	52	26
53-70-3	Dibenz(a,h)anthracene	120		120	24
206-44-0	Fluoranthene	300		120	23
86-73-7	Fluorene	47	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	110	J	120	41
90-12-0	1-Methylnaphthalene	400		230	26
91-57-6	2-Methylnaphthalene	510		230	41
91-20-3	Naphthalene	210	J	230	26
85-01-8	Phenanthrene	540	F	46	23
129-00-0	Pyrene	290		120	22

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21010.D
 Lab Smp Id: 680-88348-A-4-A Client Smp ID: CV0093A-CS
 Inj Date : 21-MAR-2013 13:42
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-4-a
 Misc Info : 680-88348-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 9
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	30.796	% 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		3.739	3.739	(1.000)	951629	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	762795	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1450665	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	26840	1.22543	474.7318	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1583387	40.0000		
* 23 Perylene-d12	264		8.903	8.898	(1.000)	1527066	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	13632	0.55024	213.1648	
3 2-Methylnaphthalene	142		4.174	4.180	(1.116)	21654	1.31032	507.6212	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	15544	1.03276	400.0922	
9 Fluorene	166		5.162	5.162	(1.069)	2913	0.12050	46.6815(Q)	
11 Phenanthrene	178		5.786	5.792	(1.002)	58148	1.38623	537.0276	
12 Anthracene	178		5.821	5.821	(1.008)	4400	0.10725	41.5507	
13 Carbazole	167		5.927	5.933	(1.026)	4563	0.12513	48.4739(Q)	
15 Fluoranthene	202		6.627	6.627	(1.148)	35525	0.77334	299.5945	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
16 Pyrene	202	6.792	6.792	(0.880)	32342	0.76007	294.4526	
17 Benzo(a)anthracene	228	7.704	7.709	(0.998)	28593	0.62567	242.3863	
19 Chrysene	228	7.733	7.733	(1.002)	64342	1.40688	545.0255	
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.960)	36074	0.90393	350.1839(M)	
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	9815	0.23975	92.8775(QMH)	
22 Benzo(a)pyrene	252	8.839	8.845	(0.993)	15741	0.40608	157.3144	
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.131)	10034	0.27516	106.5985(M)	
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.132)	10737	0.30102	116.6162(M)	
26 Benzo(g,h,i)perylene	276	10.409	10.421	(1.169)	19577	0.51321	198.8185	

QC Flag Legend

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

Data File: 1CC21010.D

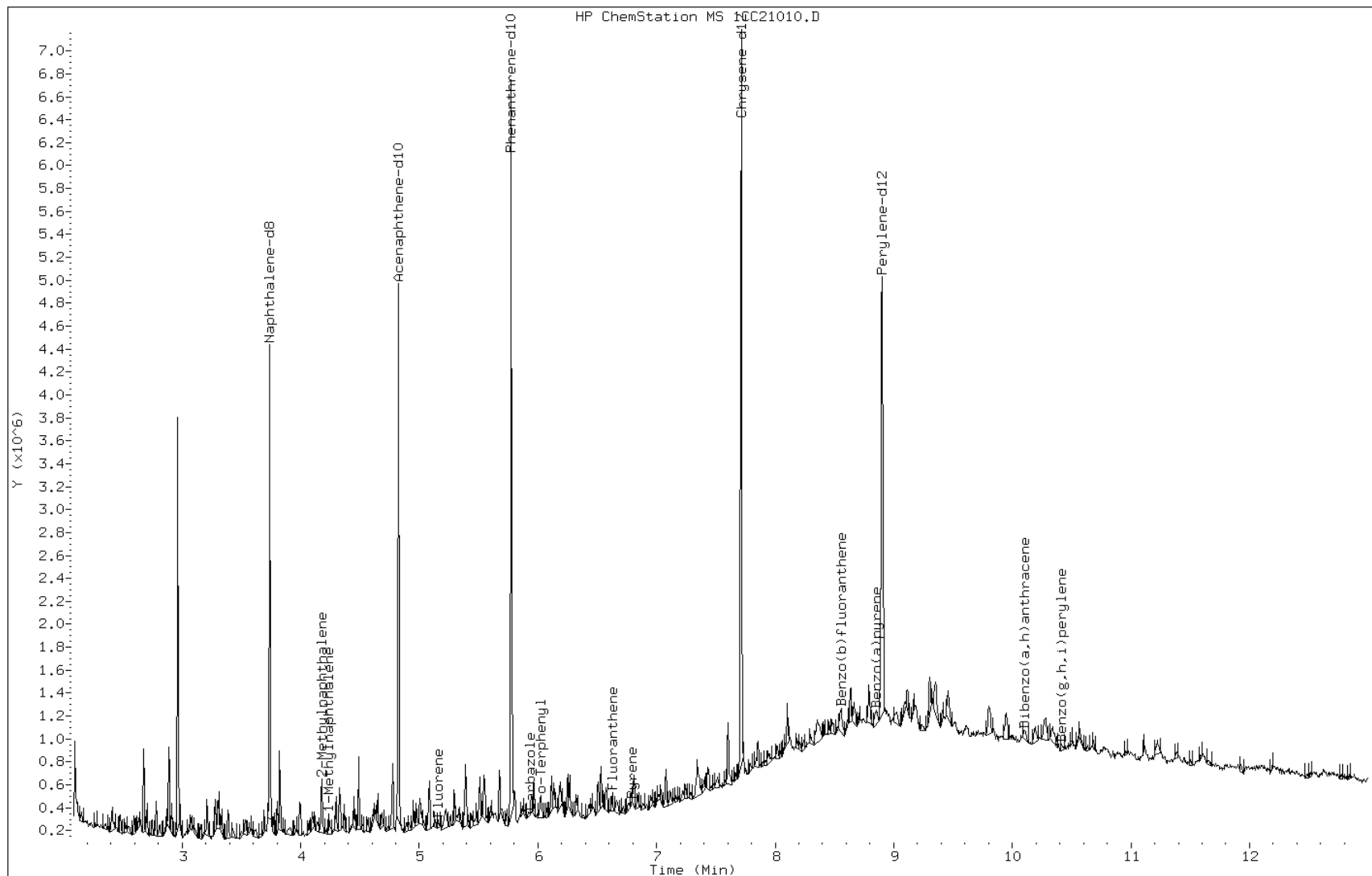
Date: 21-MAR-2013 13:42

Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

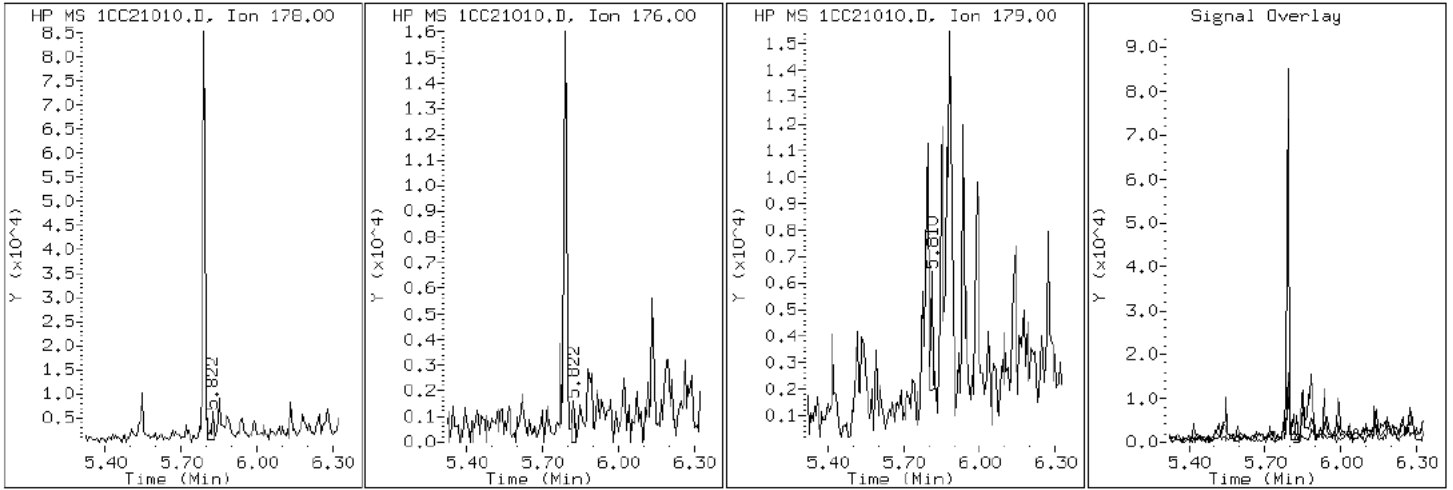
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

12 Anthracene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

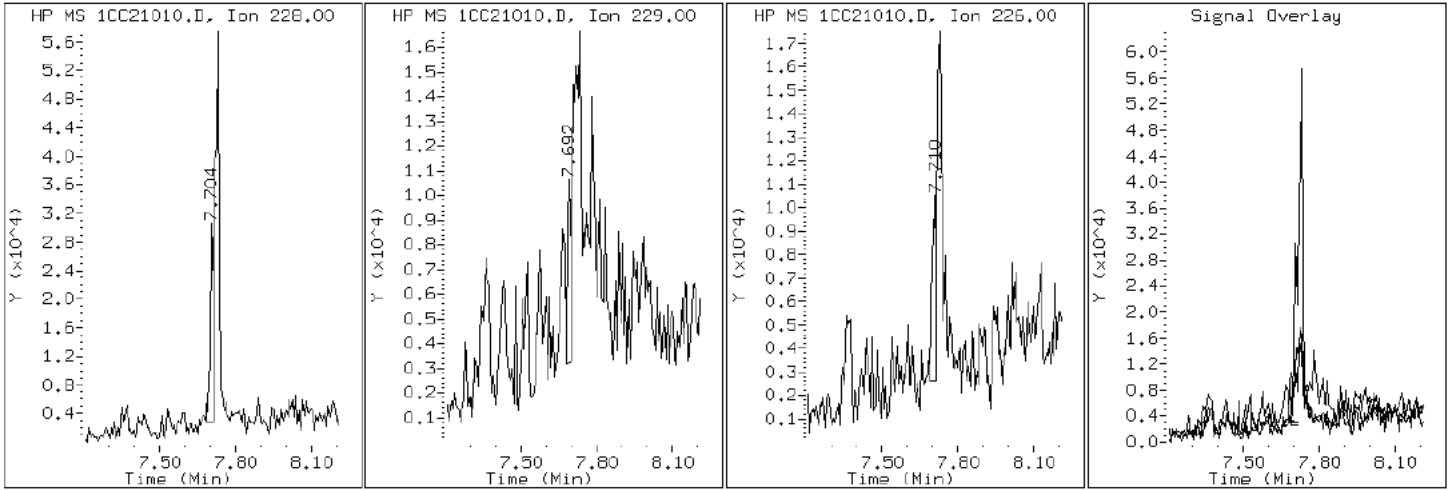
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

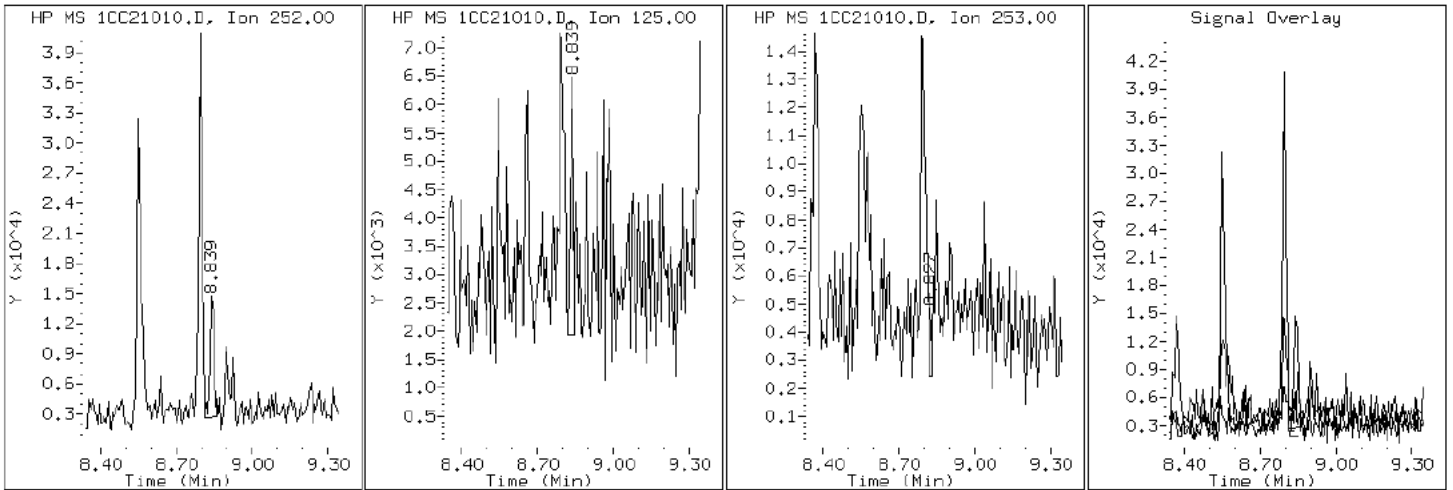
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

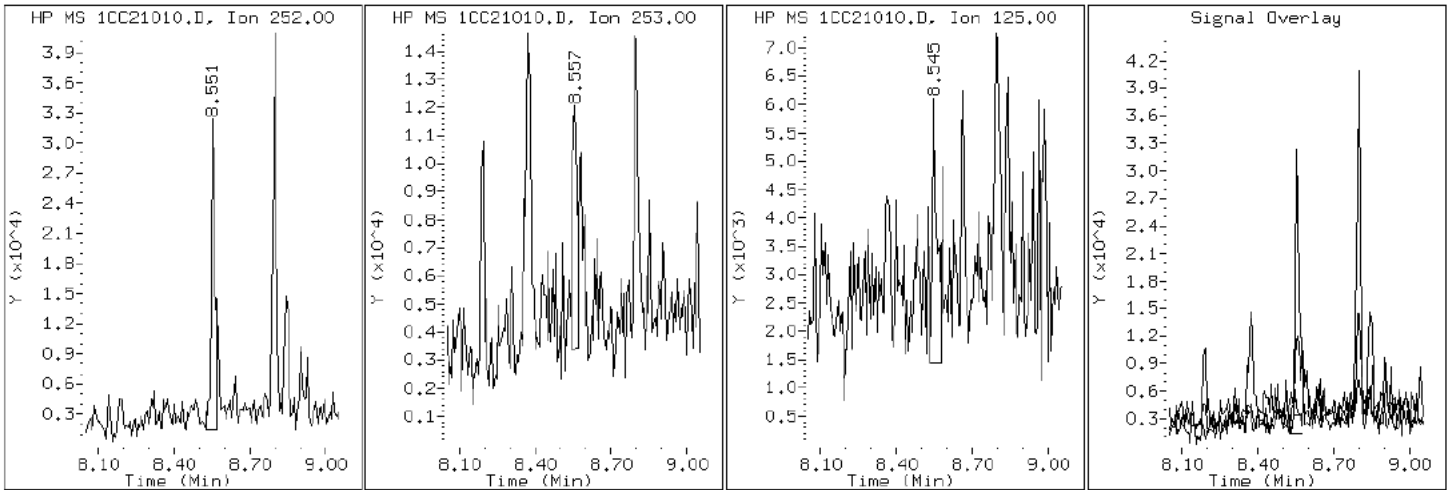
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

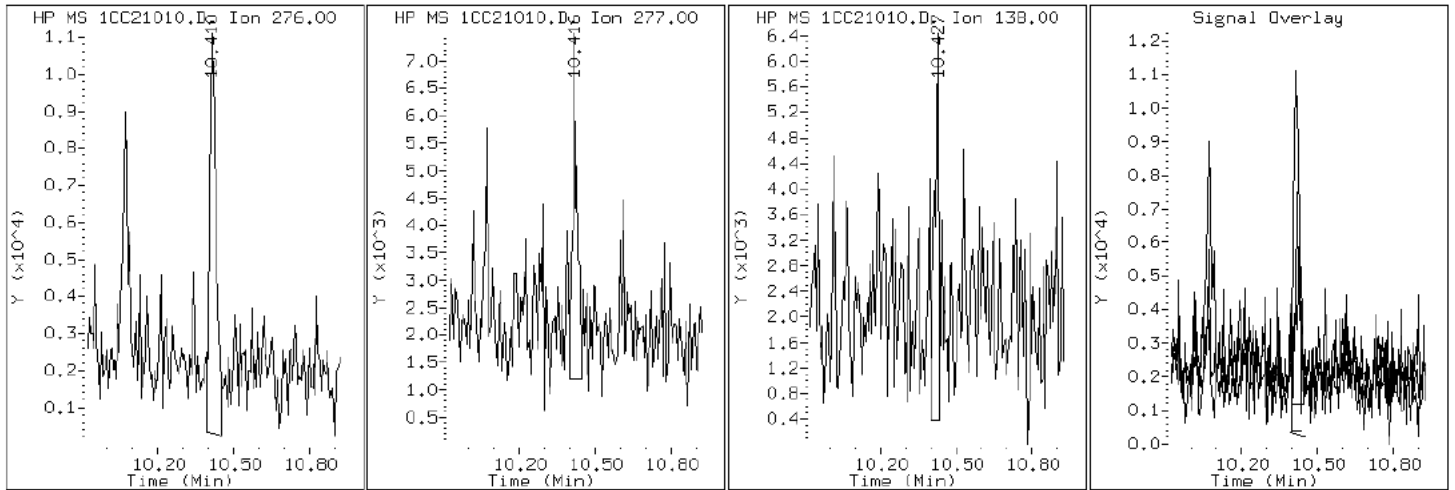
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

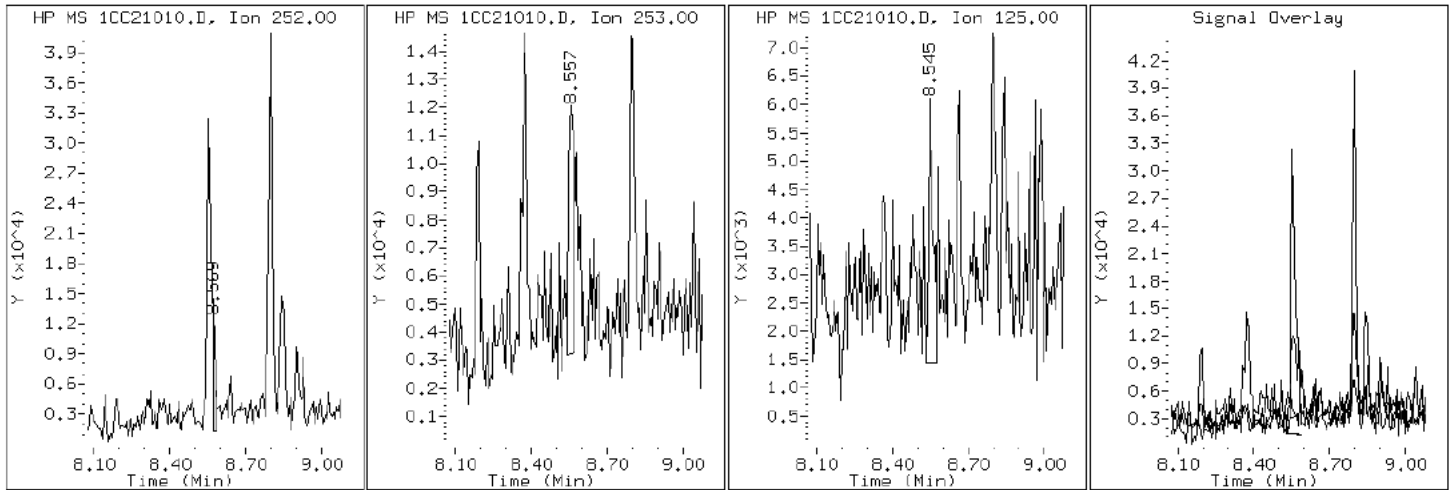
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

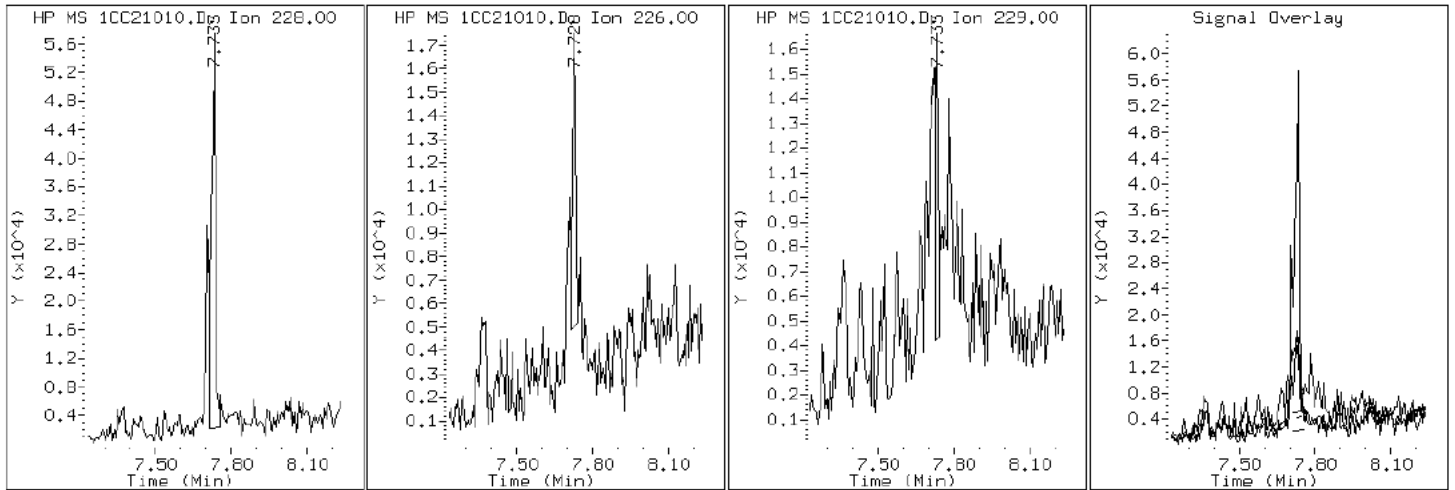
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

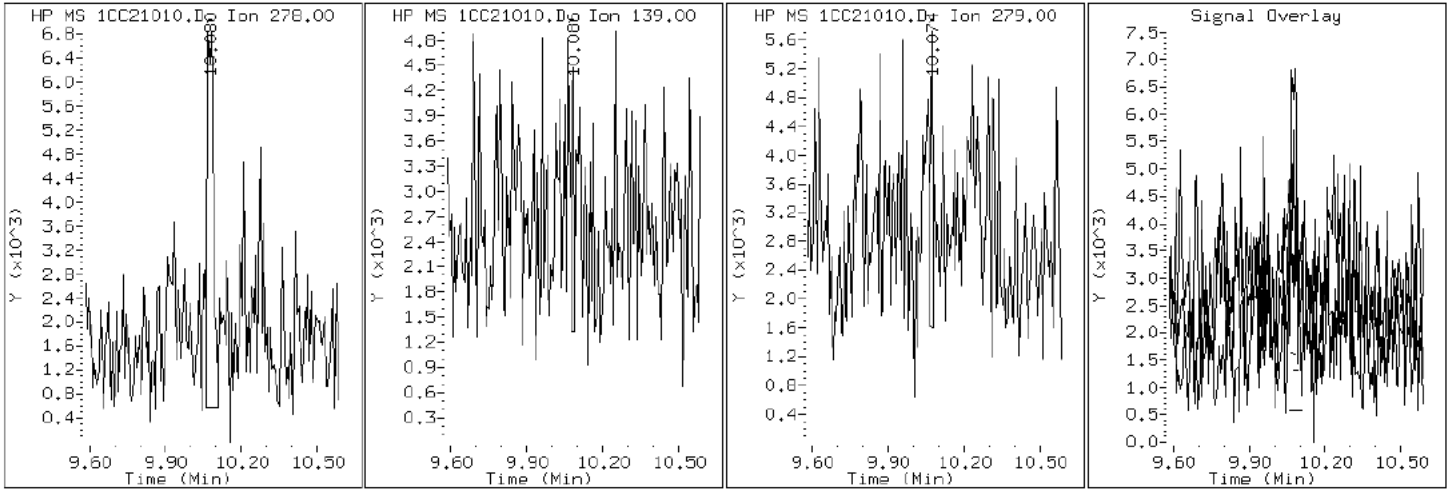
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

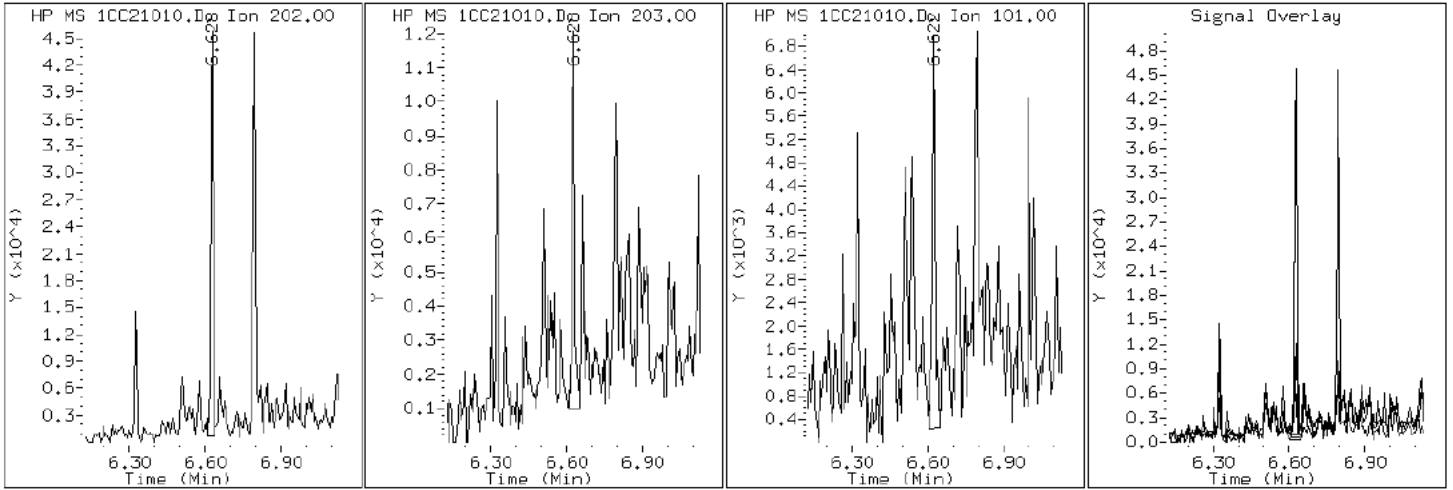
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

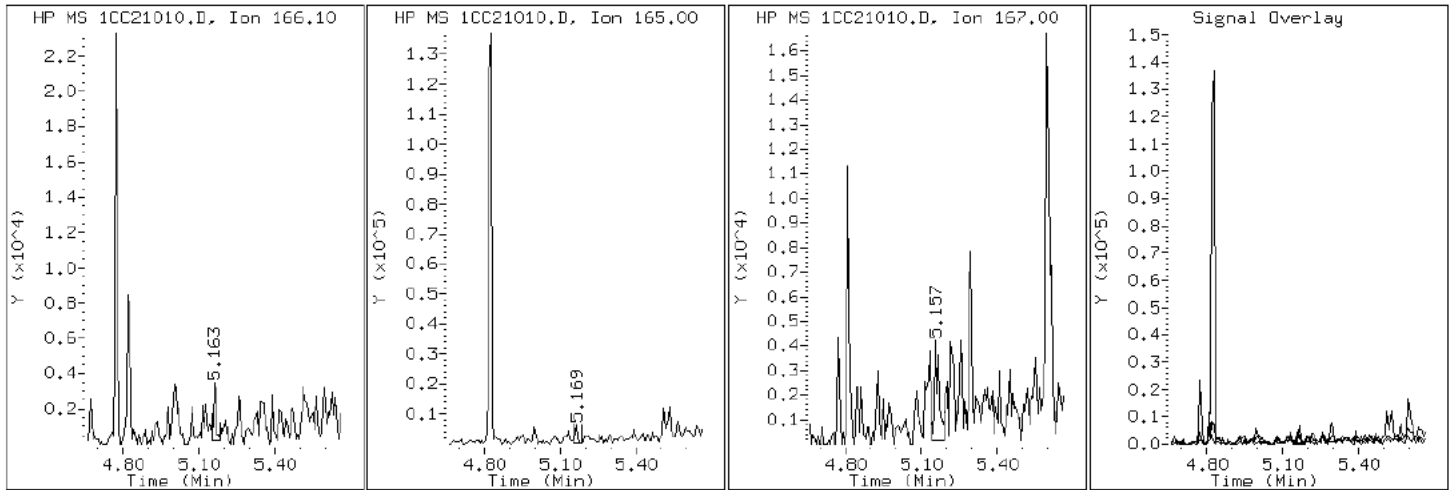
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

9 Fluorene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

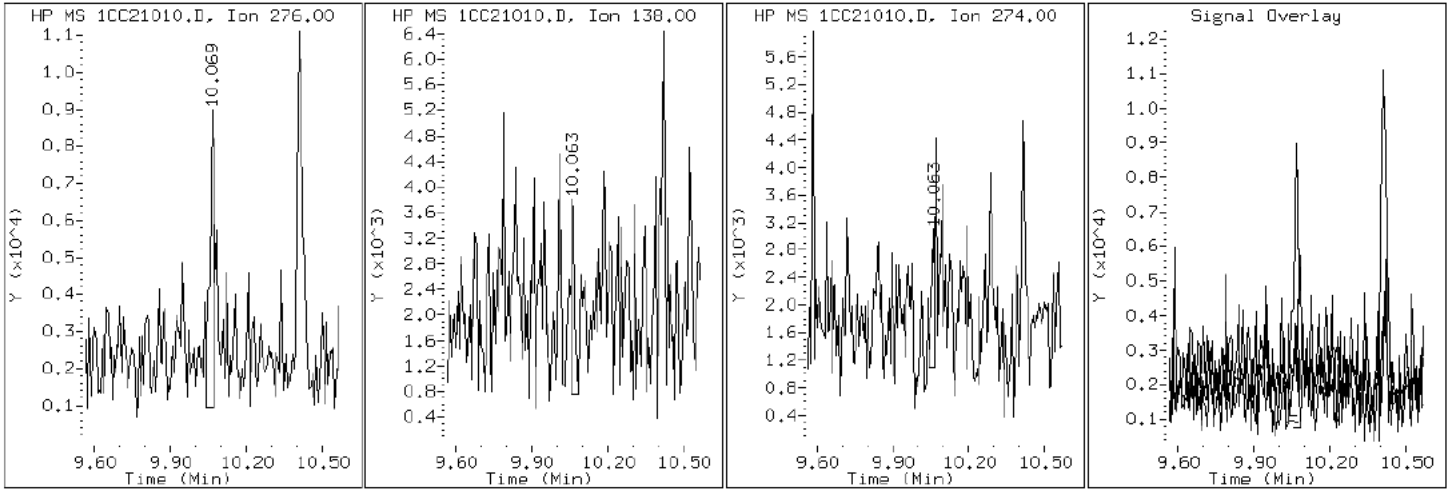
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

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



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

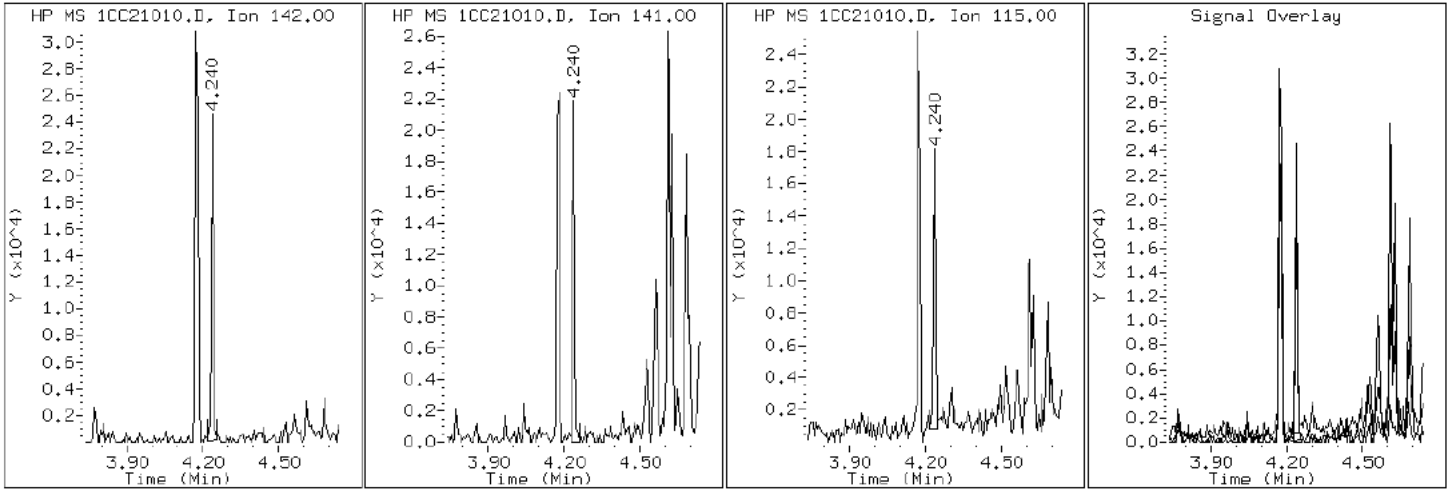
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

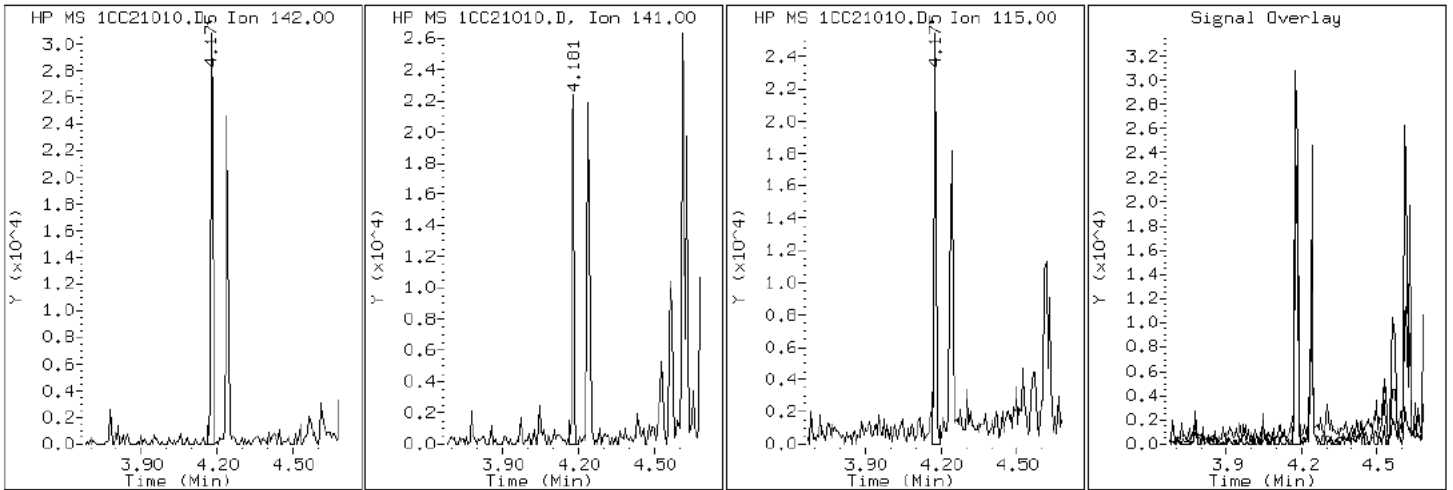
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

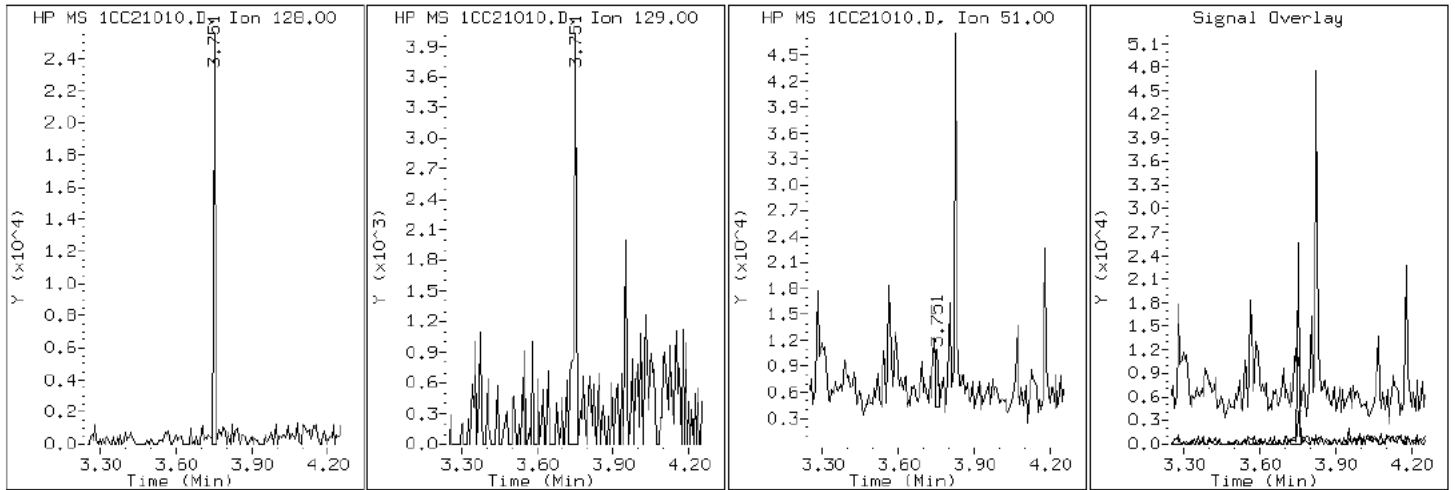
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

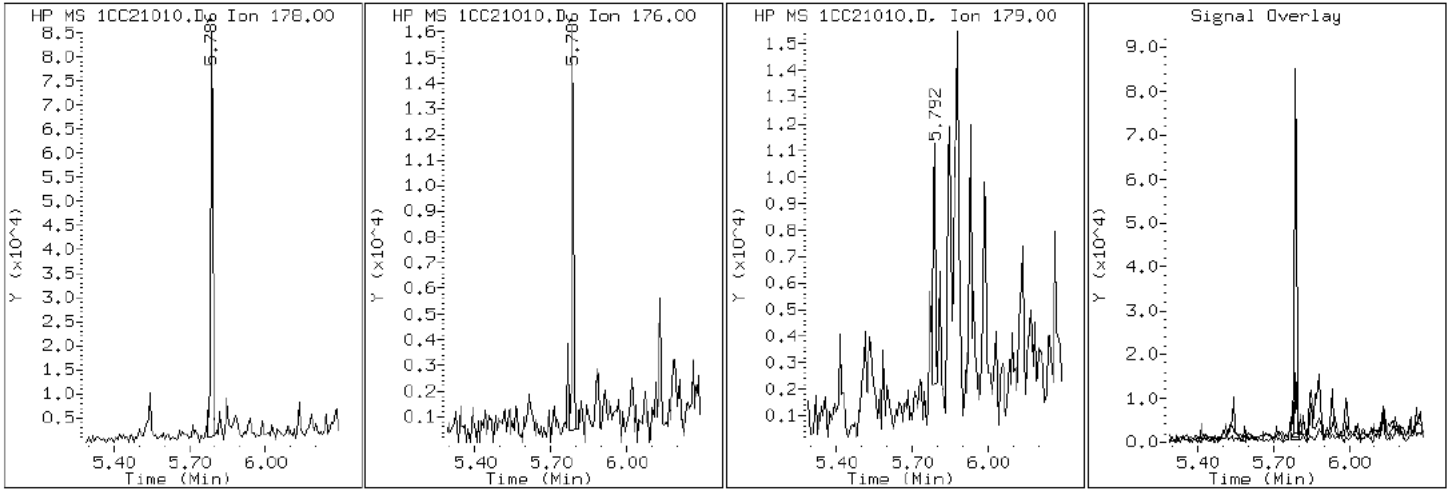
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21010.D

Date: 21-MAR-2013 13:42

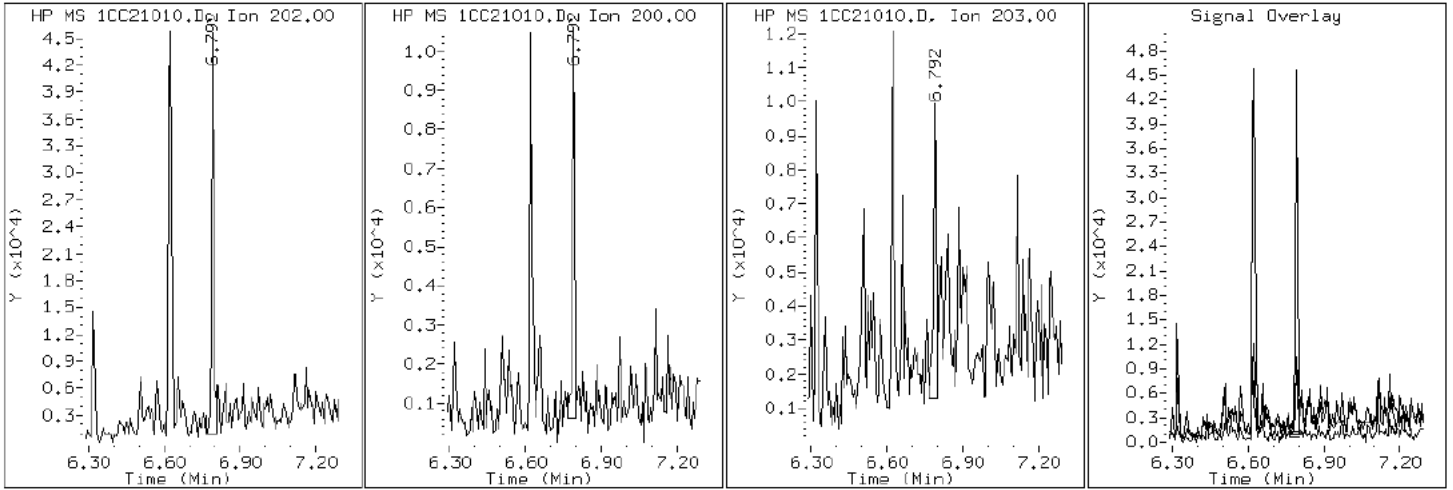
Client ID: CV0093A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-a

Operator: SCC

16 Pyrene

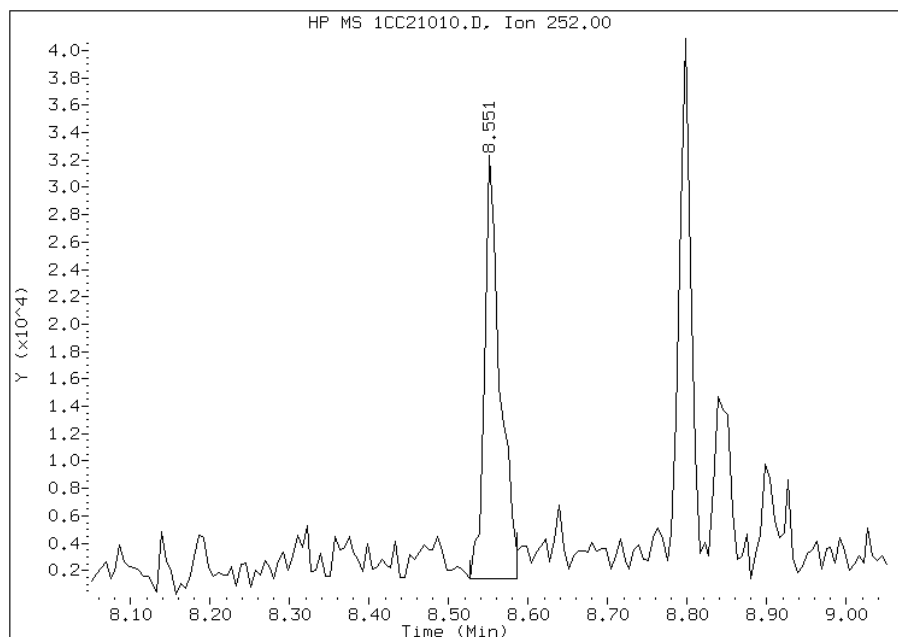


Manual Integration Report

Data File: 1CC21010.D
Inj. Date and Time: 21-MAR-2013 13:42
Instrument ID: BSMC5973.i
Client ID: CV0093A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

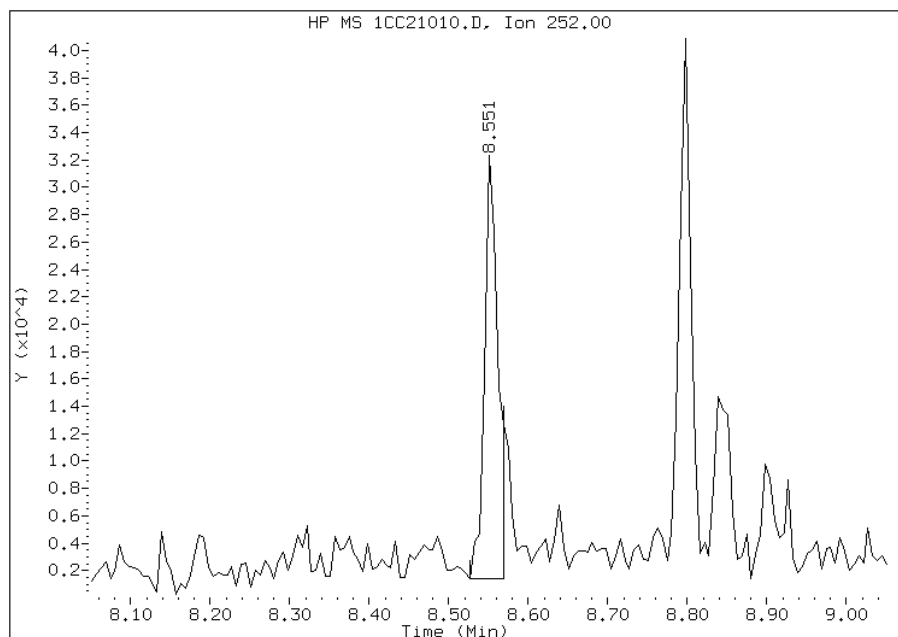
Processing Integration Results

RT: 8.55
Response: 41809
Amount: 1
Conc: 406



Manual Integration Results

RT: 8.55
Response: 36074
Amount: 1
Conc: 350



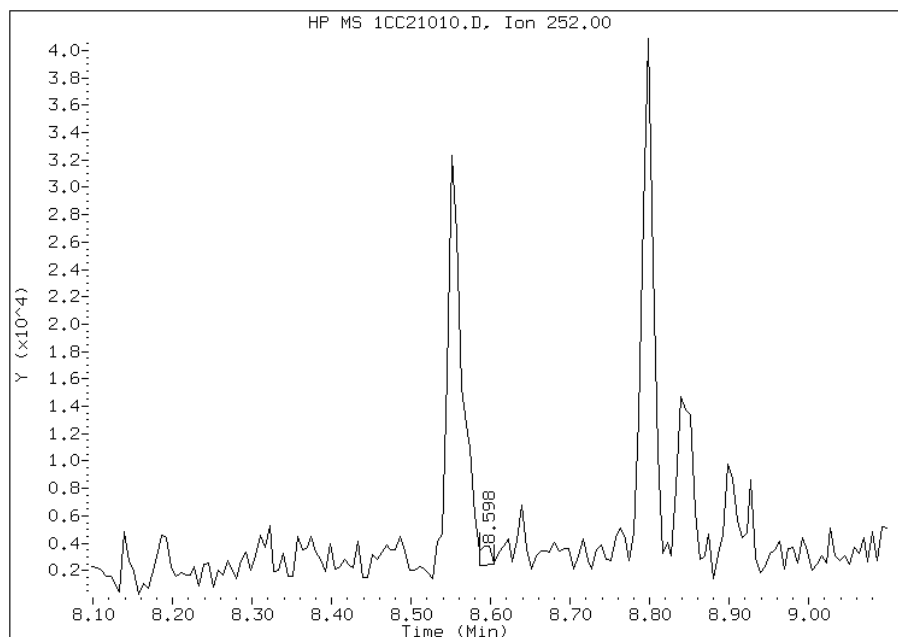
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21010.D
Inj. Date and Time: 21-MAR-2013 13:42
Instrument ID: BSMC5973.i
Client ID: CV0093A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

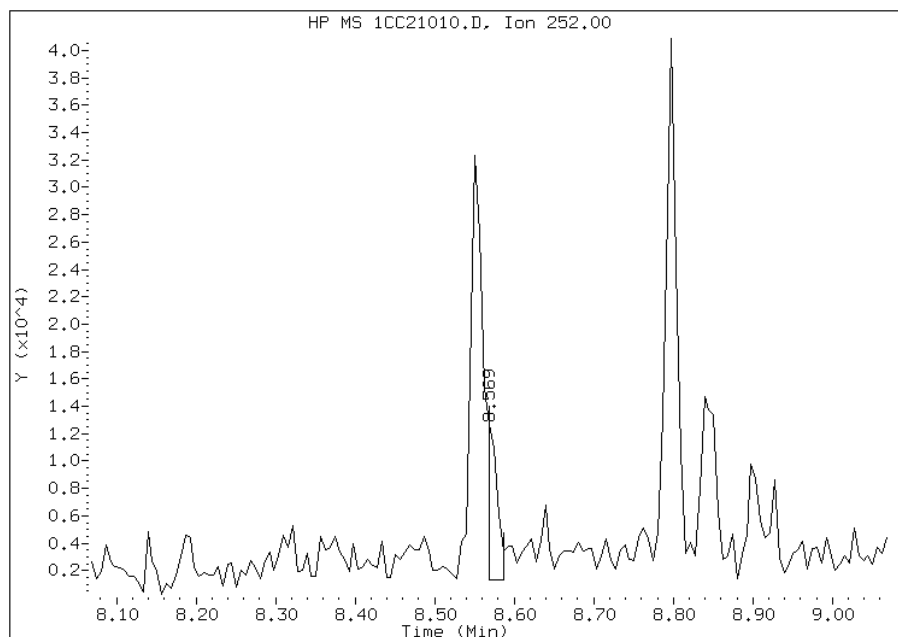
Processing Integration Results

RT: 8.60
Response: 1357
Amount: 0
Conc: 13



Manual Integration Results

RT: 8.57
Response: 9815
Amount: 0
Conc: 93



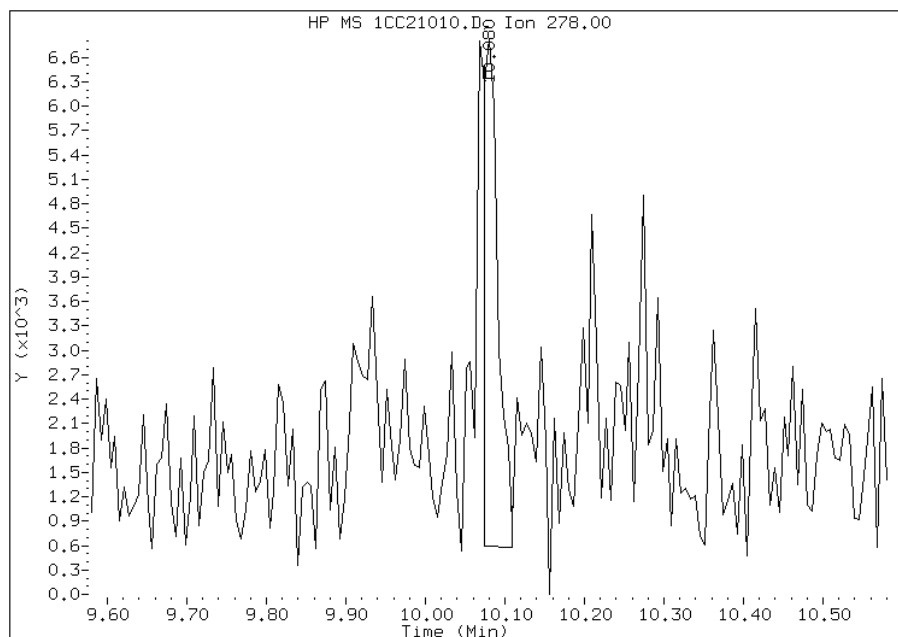
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21010.D
Inj. Date and Time: 21-MAR-2013 13:42
Instrument ID: BSMC5973.i
Client ID: CV0093A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/21/2013

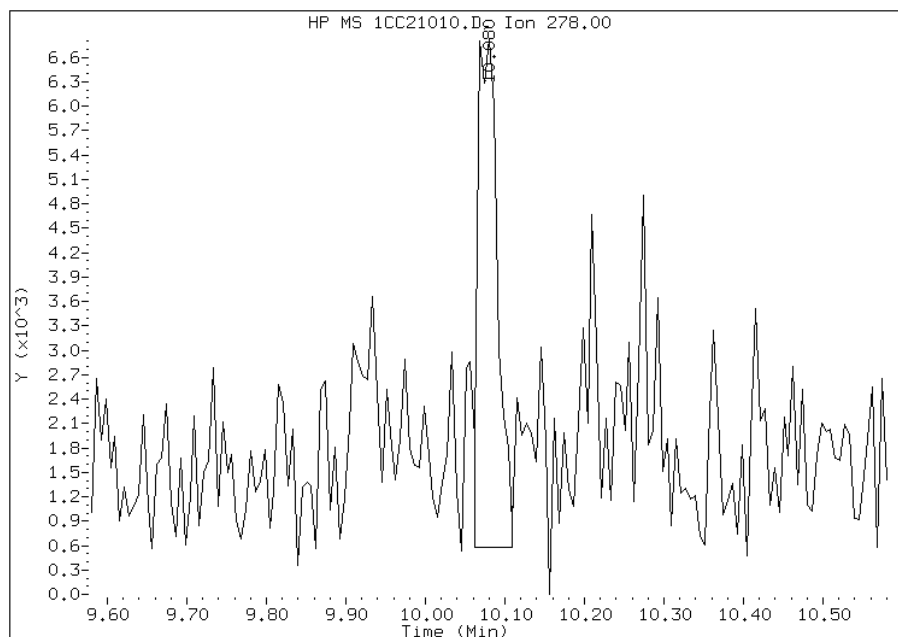
Processing Integration Results

RT: 10.08
Response: 8063
Amount: 0
Conc: 88



Manual Integration Results

RT: 10.08
Response: 10737
Amount: 0
Conc: 117



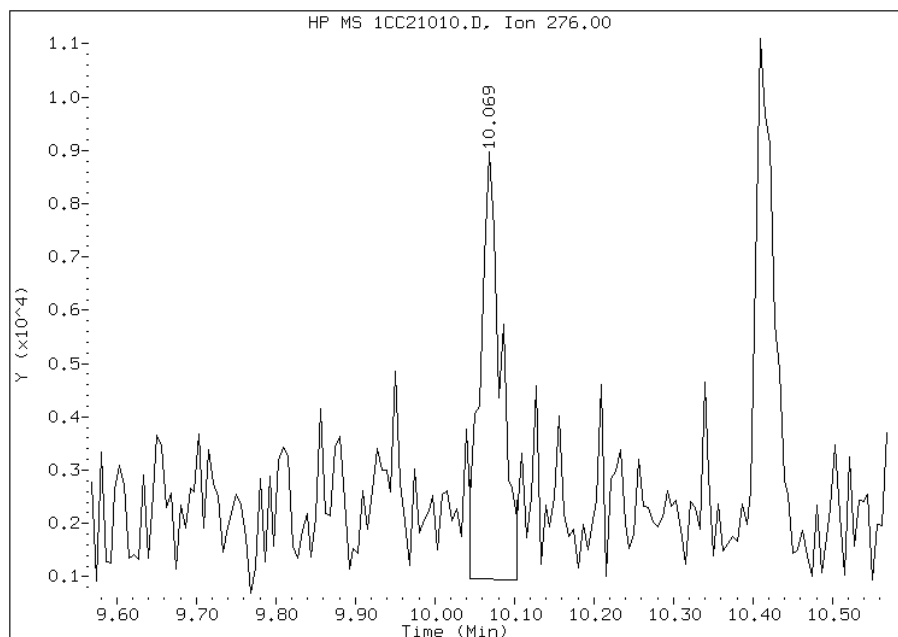
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21010.D
Inj. Date and Time: 21-MAR-2013 13:42
Instrument ID: BSMC5973.i
Client ID: CV0093A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

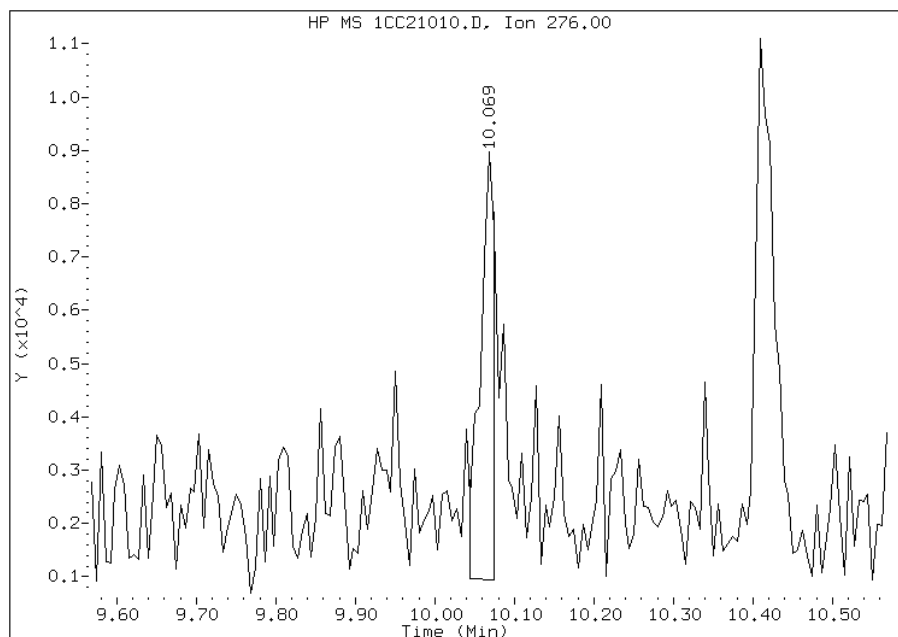
Processing Integration Results

RT: 10.07
Response: 14617
Amount: 0
Conc: 155



Manual Integration Results

RT: 10.07
Response: 10034
Amount: 0
Conc: 107



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0093B-CS Lab Sample ID: 680-88348-5
 Matrix: Solid Lab File ID: 1DC26012.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:40
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.30 (g) Date Analyzed: 03/26/2013 13:55
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 27.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135792 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	54	U	54	6.7
120-12-7	Anthracene	10	J	11	5.7
56-55-3	Benzo[a]anthracene	42		11	5.3
50-32-8	Benzo[a]pyrene	36		14	7.0
205-99-2	Benzo[b]fluoranthene	63		16	8.2
191-24-2	Benzo[g,h,i]perylene	31		27	5.9
207-08-9	Benzo[k]fluoranthene	18		11	4.9
218-01-9	Chrysene	59		12	6.1
53-70-3	Dibenz(a,h)anthracene	9.7	J	27	5.5
206-44-0	Fluoranthene	62		27	5.4
86-73-7	Fluorene	27	U	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	24	J	27	9.6
90-12-0	1-Methylnaphthalene	41	J	54	5.9
91-57-6	2-Methylnaphthalene	41	J	54	9.6
91-20-3	Naphthalene	31	J	54	5.9
85-01-8	Phenanthrene	57		11	5.3
129-00-0	Pyrene	54		27	5.0

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26012.D
 Lab Smp Id: 680-88348-A-5-A Client Smp ID: CV0093B-CS
 Inj Date : 26-MAR-2013 13:55
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88348-A-5-A
 Misc Info : 680-88348-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.300	Weight Extracted
M	27.000	% 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		6.122	6.126	(1.000)	3003935	40.0000		
* 6 Acenaphthene-d10	164		7.803	7.800	(1.000)	1879245	40.0000		
* 9 Phenanthrene-d10	188		9.066	9.063	(1.000)	3050465	40.0000		
\$ 13 o-Terphenyl	230		9.365	9.375	(1.033)	274722	5.82378	520	
* 17 Chrysene-d12	240		11.398	11.402	(1.000)	2987510	40.0000		
* 22 Perylene-d12	264		13.267	13.270	(1.000)	3137819	40.0000		
2 Naphthalene	128		6.140	6.149	(1.003)	27837	0.34642	31	
3 2-Methylnaphthalene	142		6.845	6.848	(1.118)	23555	0.46016	41	
4 1-Methylnaphthalene	142		6.939	6.942	(1.133)	22071	0.46044	41	
5 Acenaphthylene	152		7.673	7.677	(0.983)	5764	0.06957	6.2	
8 Fluorene	166		8.267	8.270	(1.059)	2887	0.04891	4.4	
10 Phenanthrene	178		9.078	9.087	(1.001)	55121	0.63656	57	
11 Anthracene	178		9.119	9.128	(1.006)	9763	0.11269	10	
12 Carbazole	167		9.260	9.269	(1.021)	6231	0.08045	7.2	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
14 Fluoranthene	202	10.065	10.068	(1.110)	62169	0.68797	62
15 Pyrene	202	10.253	10.256	(0.899)	55691	0.60096	54
16 Benzo(a)anthracene	228	11.387	11.384	(0.999)	38504	0.47076	42
18 Chrysene	228	11.422	11.431	(1.002)	55042	0.65184	58
19 Benzo(b)fluoranthene	252	12.703	12.712	(0.957)	57022	0.70601	63
20 Benzo(k)fluoranthene	252	12.732	12.753	(0.960)	16649	0.19688	18
21 Benzo(a)pyrene	252	13.155	13.170	(0.992)	31592	0.39527	35
23 Indeno(1,2,3-cd)pyrene	276	14.859	14.886	(1.120)	22610	0.26508	24(M)
24 Dibenzo(a,h)anthracene	278	14.894	14.915	(1.123)	8504	0.10796	9.7
25 Benzo(g,h,i)perylene	276	15.317	15.344	(1.155)	27902	0.34310	31

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26012.D

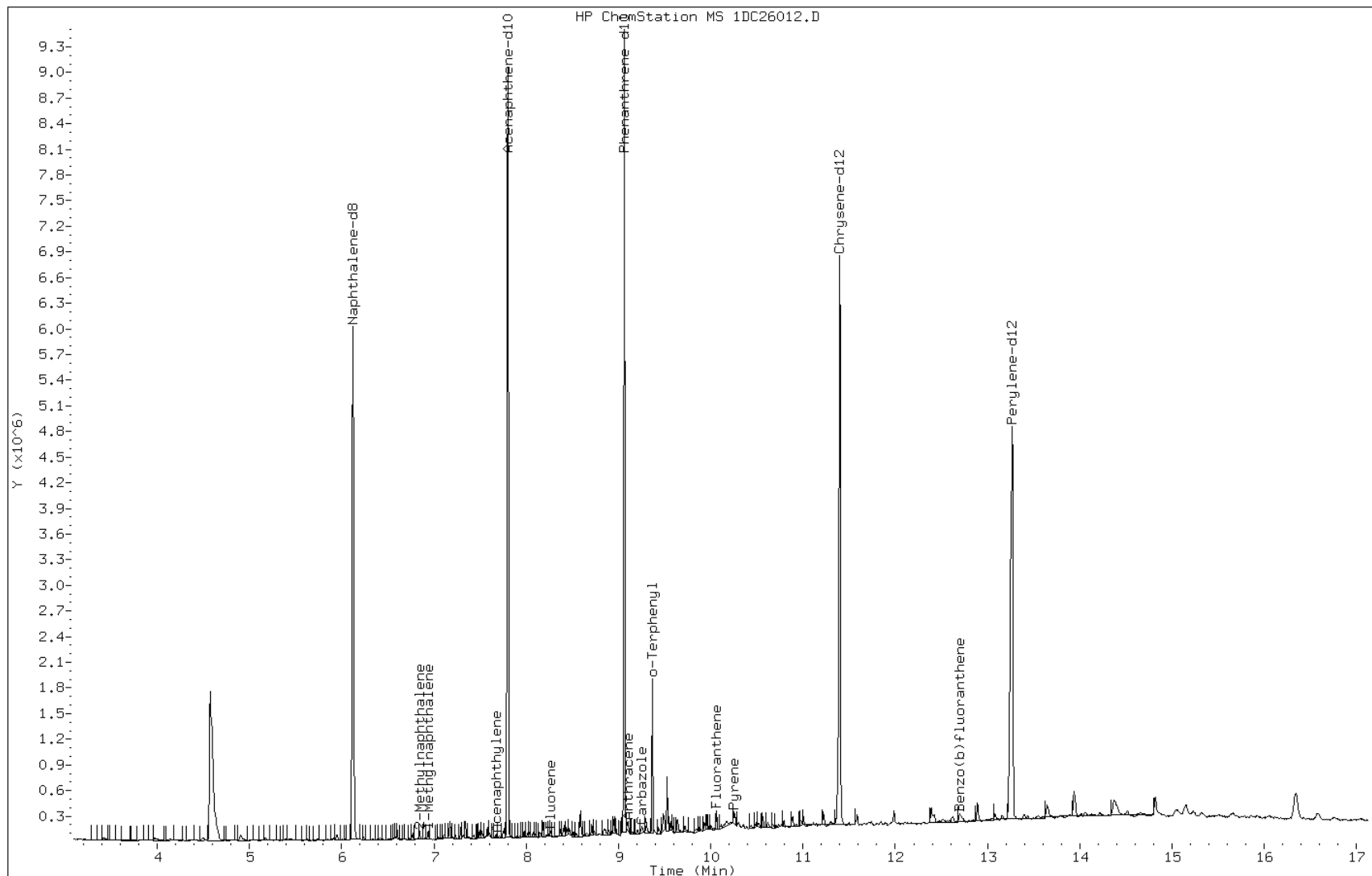
Date: 26-MAR-2013 13:55

Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

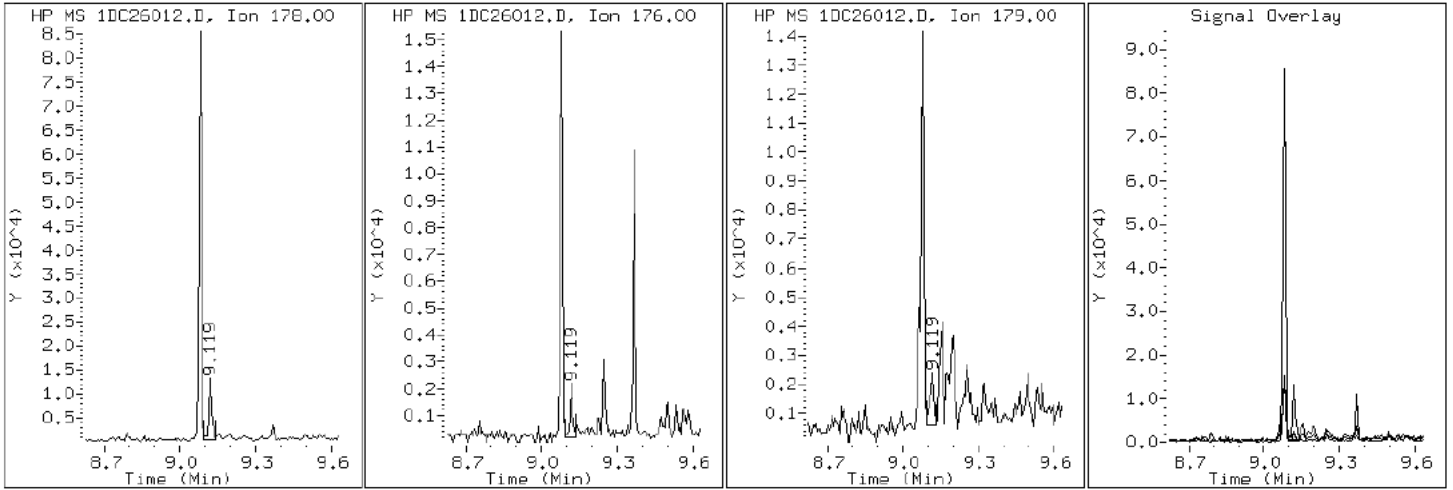
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

11 Anthracene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

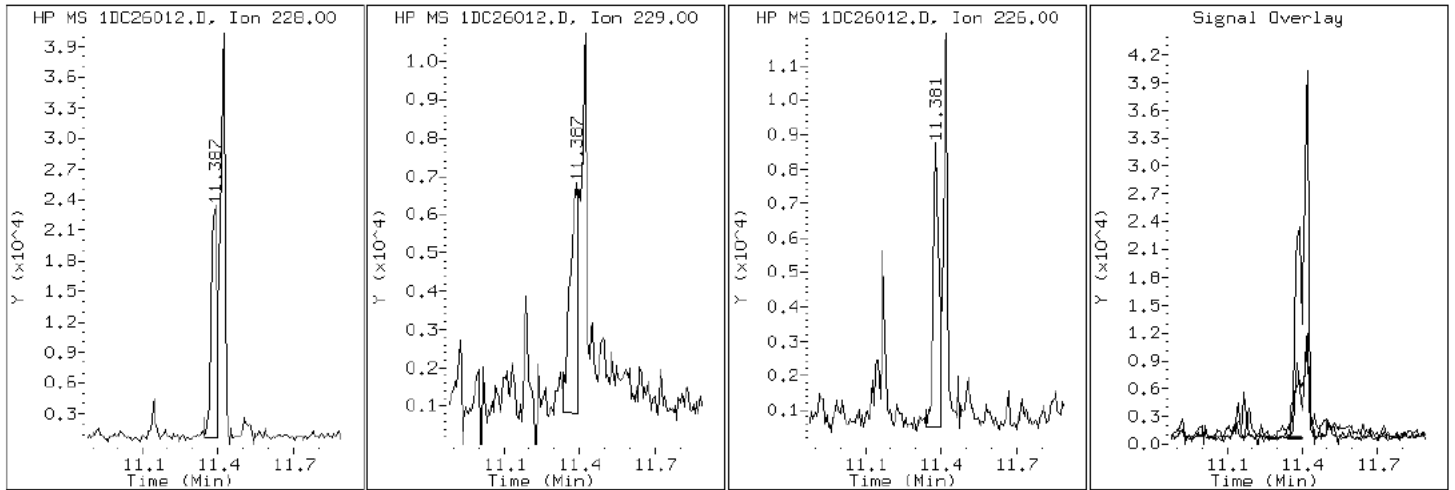
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

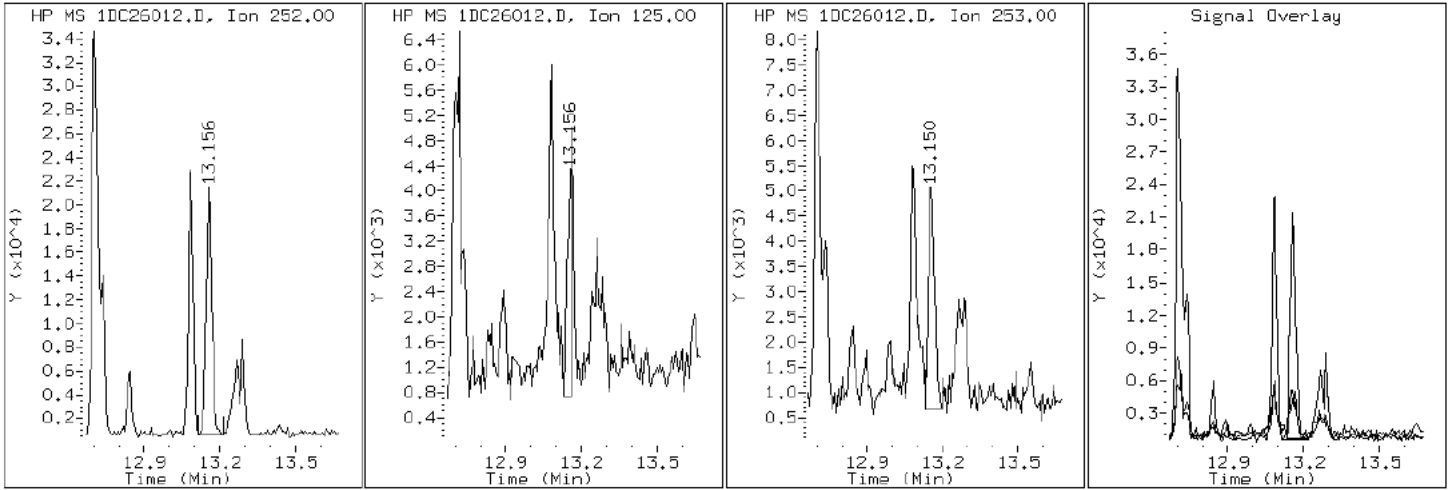
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

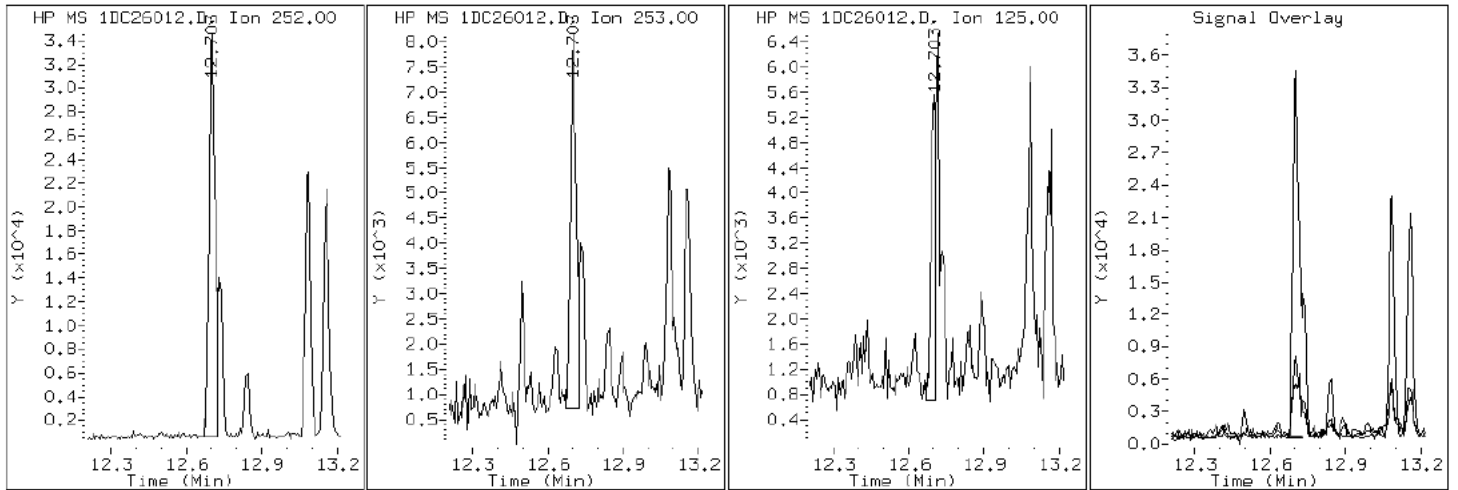
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

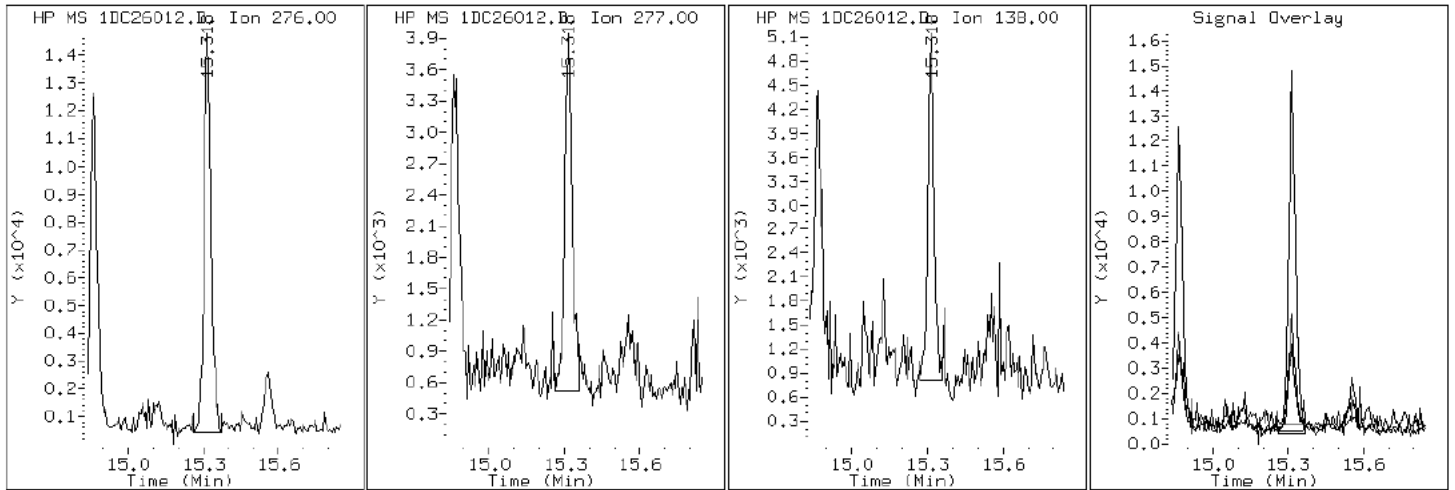
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

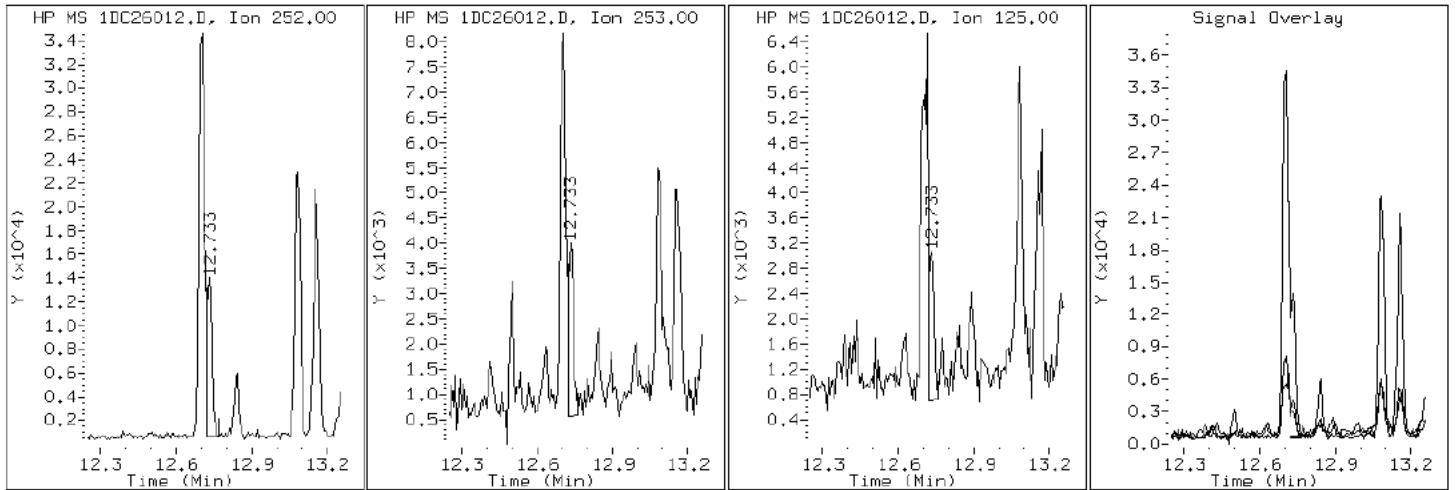
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

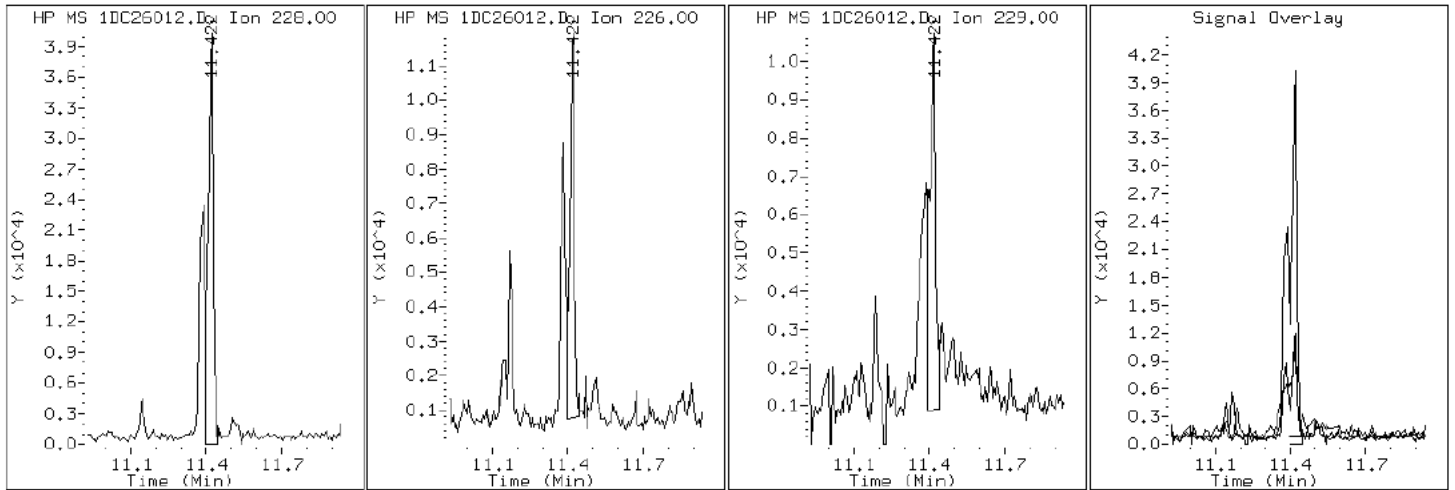
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

18 Chrysene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

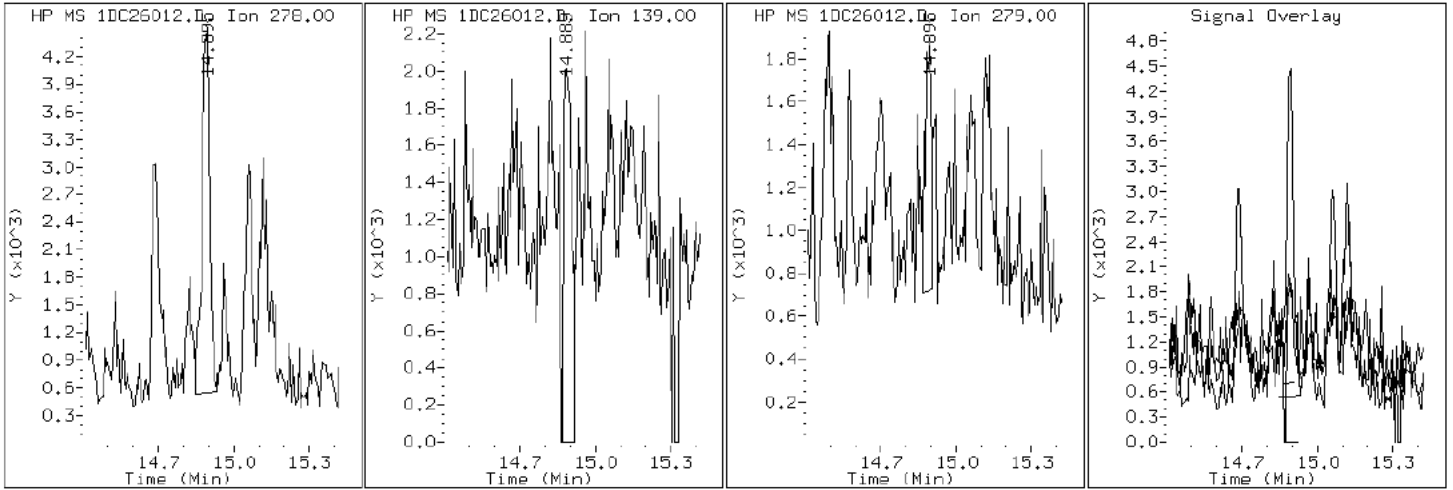
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

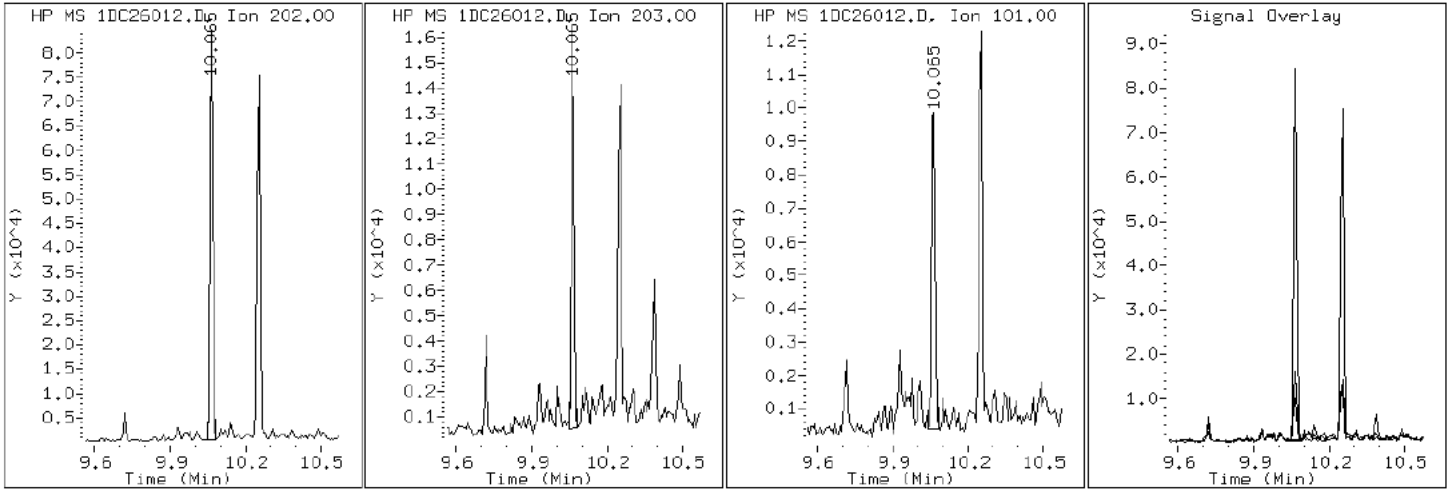
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

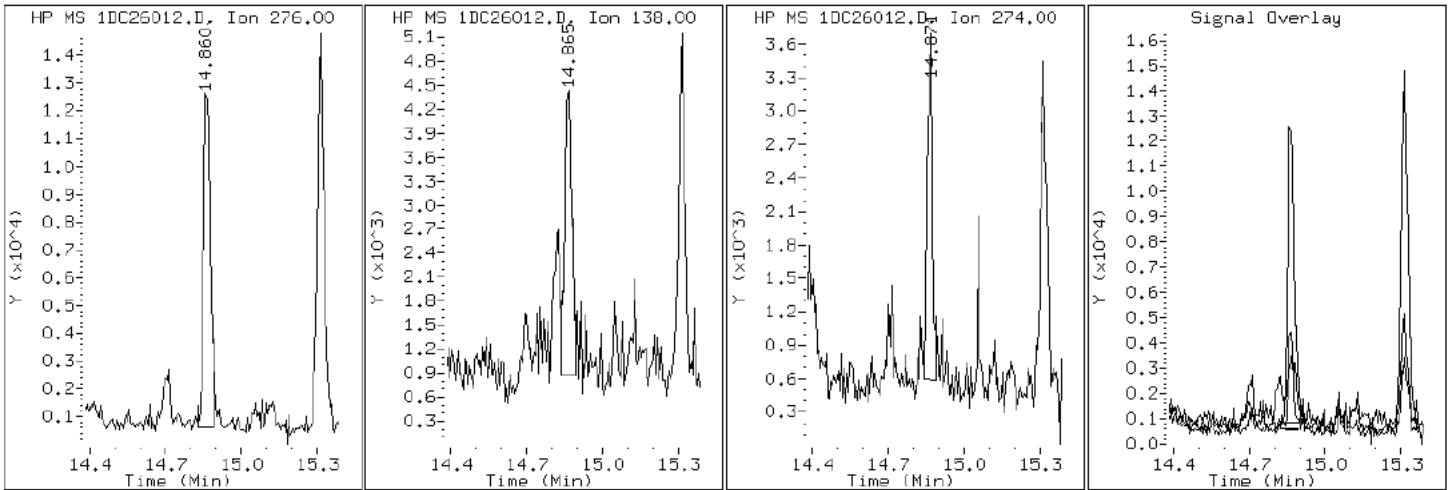
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

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



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

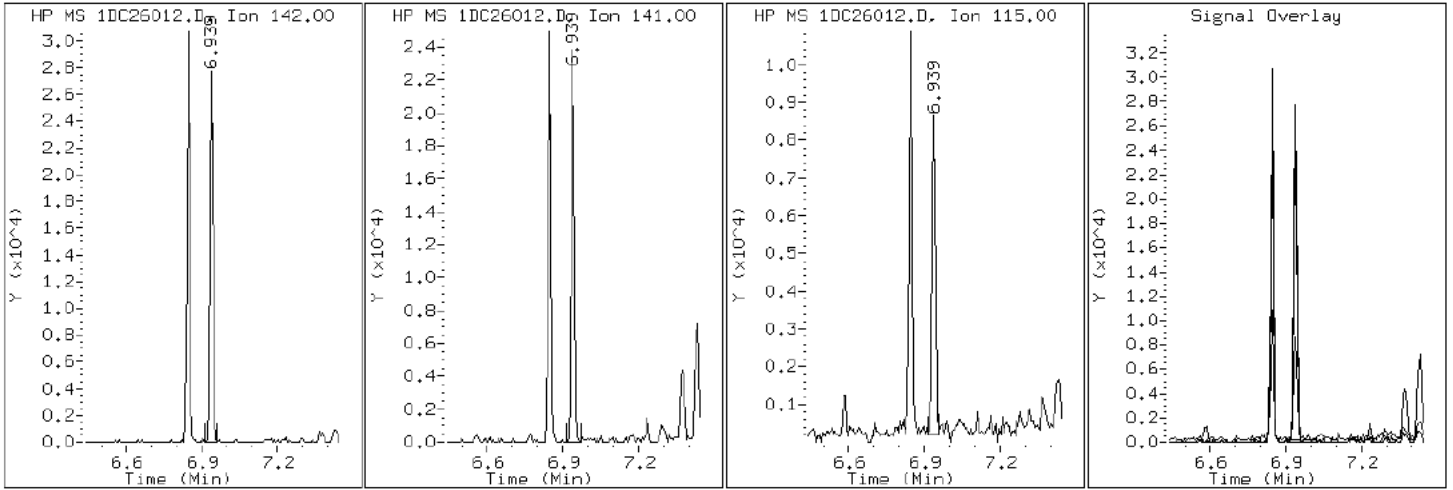
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

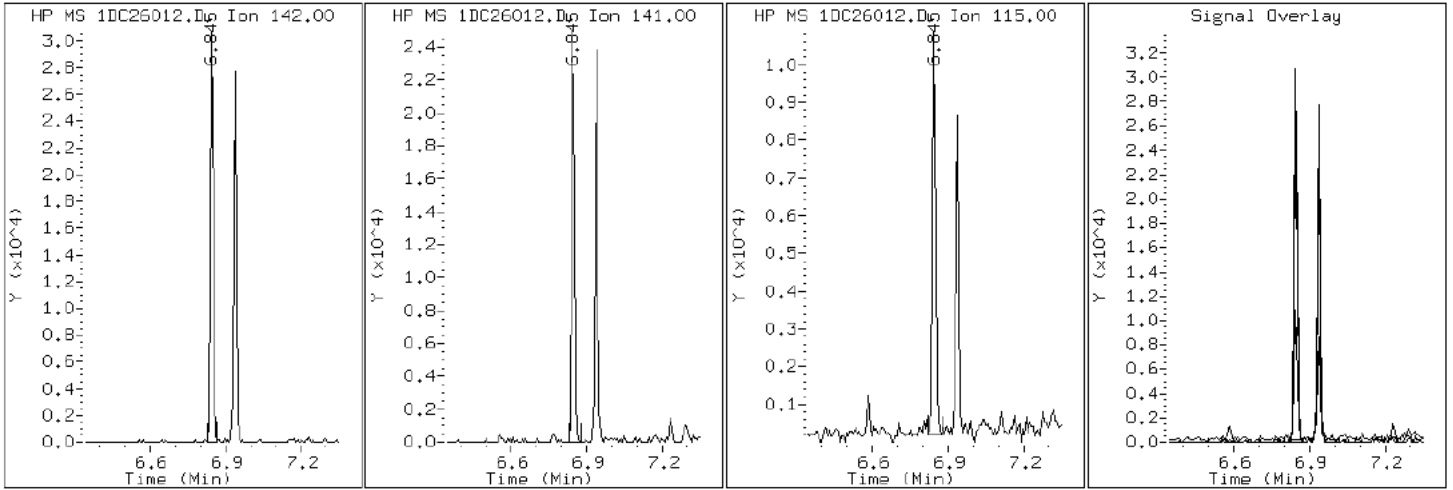
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

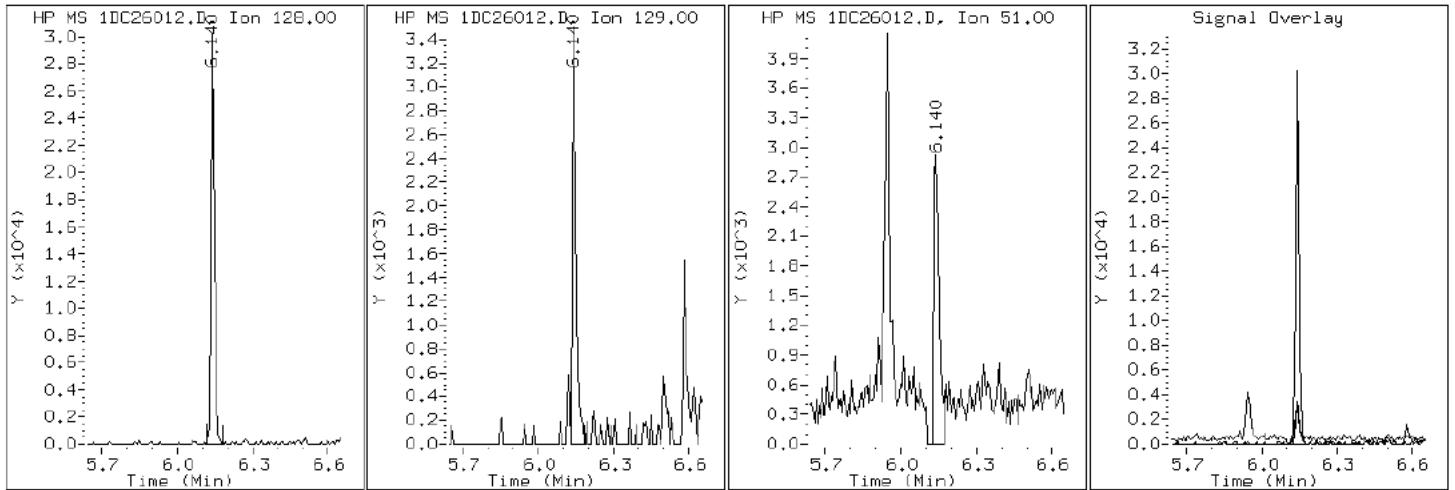
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

2 Naphthalene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

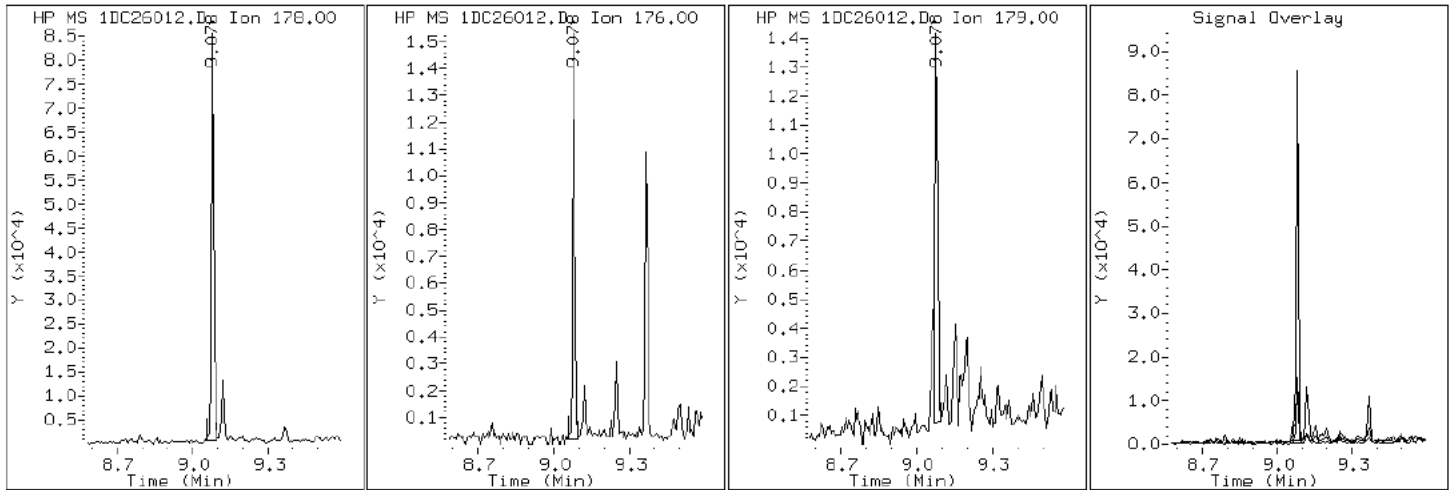
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26012.D

Date: 26-MAR-2013 13:55

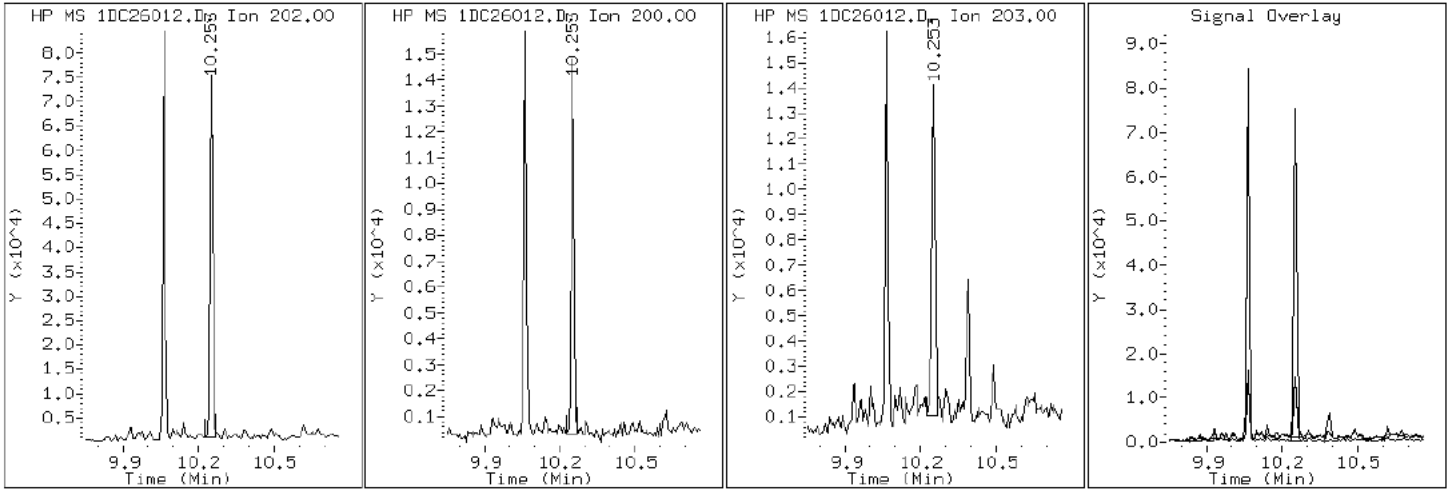
Client ID: CV0093B-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-5-A

Operator: SCC

15 Pyrene

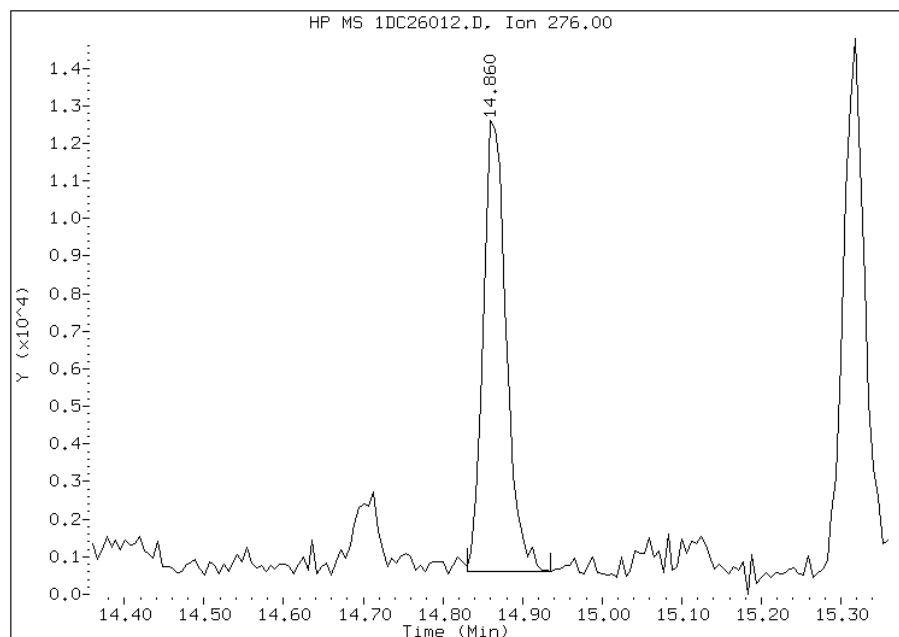


Manual Integration Report

Data File: 1DC26012.D
Inj. Date and Time: 26-MAR-2013 13:55
Instrument ID: BSMSD.i
Client ID: CV0093B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

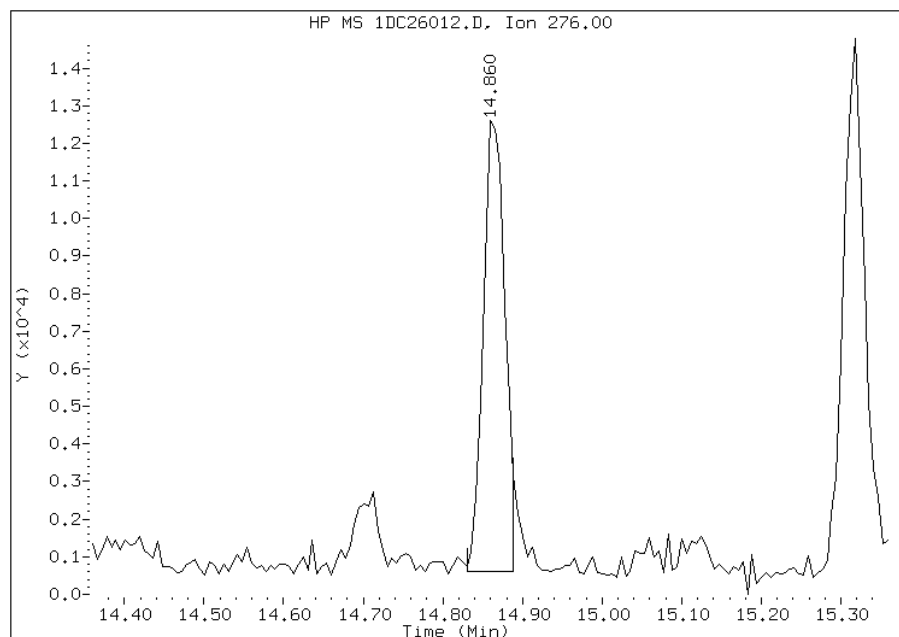
Processing Integration Results

RT: 14.86
Response: 23909
Amount: 0
Conc: 25



Manual Integration Results

RT: 14.86
Response: 22610
Amount: 0
Conc: 24



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 14:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0093C-CS Lab Sample ID: 680-88348-6
 Matrix: Solid Lab File ID: 1DC26007.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:51
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.06(g) Date Analyzed: 03/26/2013 12:02
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135792 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	53	U	53	6.6
120-12-7	Anthracene	11	U	11	5.5
56-55-3	Benzo[a]anthracene	30		11	5.1
50-32-8	Benzo[a]pyrene	21		14	6.9
205-99-2	Benzo[b]fluoranthene	39		16	8.0
191-24-2	Benzo[g,h,i]perylene	18	J	26	5.8
207-08-9	Benzo[k]fluoranthene	12		11	4.7
218-01-9	Chrysene	32		12	5.9
53-70-3	Dibenz(a,h)anthracene	6.2	J	26	5.4
206-44-0	Fluoranthene	41		26	5.3
86-73-7	Fluorene	26	U	26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	13	J	26	9.4
90-12-0	1-Methylnaphthalene	8.9	J	53	5.8
91-57-6	2-Methylnaphthalene	9.6	J	53	9.4
91-20-3	Naphthalene	10	J	53	5.8
85-01-8	Phenanthrene	28		11	5.1
129-00-0	Pyrene	35		26	4.9

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26007.D
 Lab Smp Id: 680-88348-A-6-A Client Smp ID: CV0093C-CS
 Inj Date : 26-MAR-2013 12:02
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88348-A-6-A
 Misc Info : 680-88348-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	24.503	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.119	6.126	(1.000)	3647864	40.0000	
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	2278045	40.0000	
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	3623810	40.0000	
\$ 13 o-Terphenyl	230	9.368	9.375	(1.034)	321603	5.73895	500
* 17 Chrysene-d12	240	11.401	11.402	(1.000)	3520438	40.0000	
* 22 Perylene-d12	264	13.270	13.270	(1.000)	3545235	40.0000	
2 Naphthalene	128	6.143	6.149	(1.004)	11301	0.11581	10(Q)
3 2-Methylnaphthalene	142	6.842	6.848	(1.118)	6813	0.10960	9.6
4 1-Methylnaphthalene	142	6.936	6.942	(1.133)	5904	0.10143	8.9
10 Phenanthrene	178	9.080	9.087	(1.002)	32338	0.31436	28
11 Anthracene	178	9.116	9.128	(1.006)	6338	0.06158	5.4
12 Carbazole	167	9.263	9.269	(1.022)	4358	0.04737	4.2
14 Fluoranthene	202	10.062	10.068	(1.110)	50400	0.46949	41
15 Pyrene	202	10.250	10.256	(0.899)	43097	0.39466	35

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
16 Benzo(a)anthracene	228	11.384	11.384	(0.998)	32399	0.33615	30
18 Chrysene	228	11.419	11.431	(1.002)	35720	0.35898	32(H)
19 Benzo(b)fluoranthene	252	12.700	12.712	(0.957)	40214	0.44068	39
20 Benzo(k)fluoranthene	252	12.729	12.753	(0.959)	13490	0.14119	12(H)
21 Benzo(a)pyrene	252	13.152	13.170	(0.991)	21546	0.23860	21
23 Indeno(1,2,3-cd)pyrene	276	14.856	14.886	(1.120)	13764	0.14282	12(M)
24 Dibenzo(a,h)anthracene	278	14.874	14.915	(1.121)	6261	0.07035	6.2
25 Benzo(g,h,i)perylene	276	15.303	15.344	(1.153)	18871	0.20538	18(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: 1DC26007.D

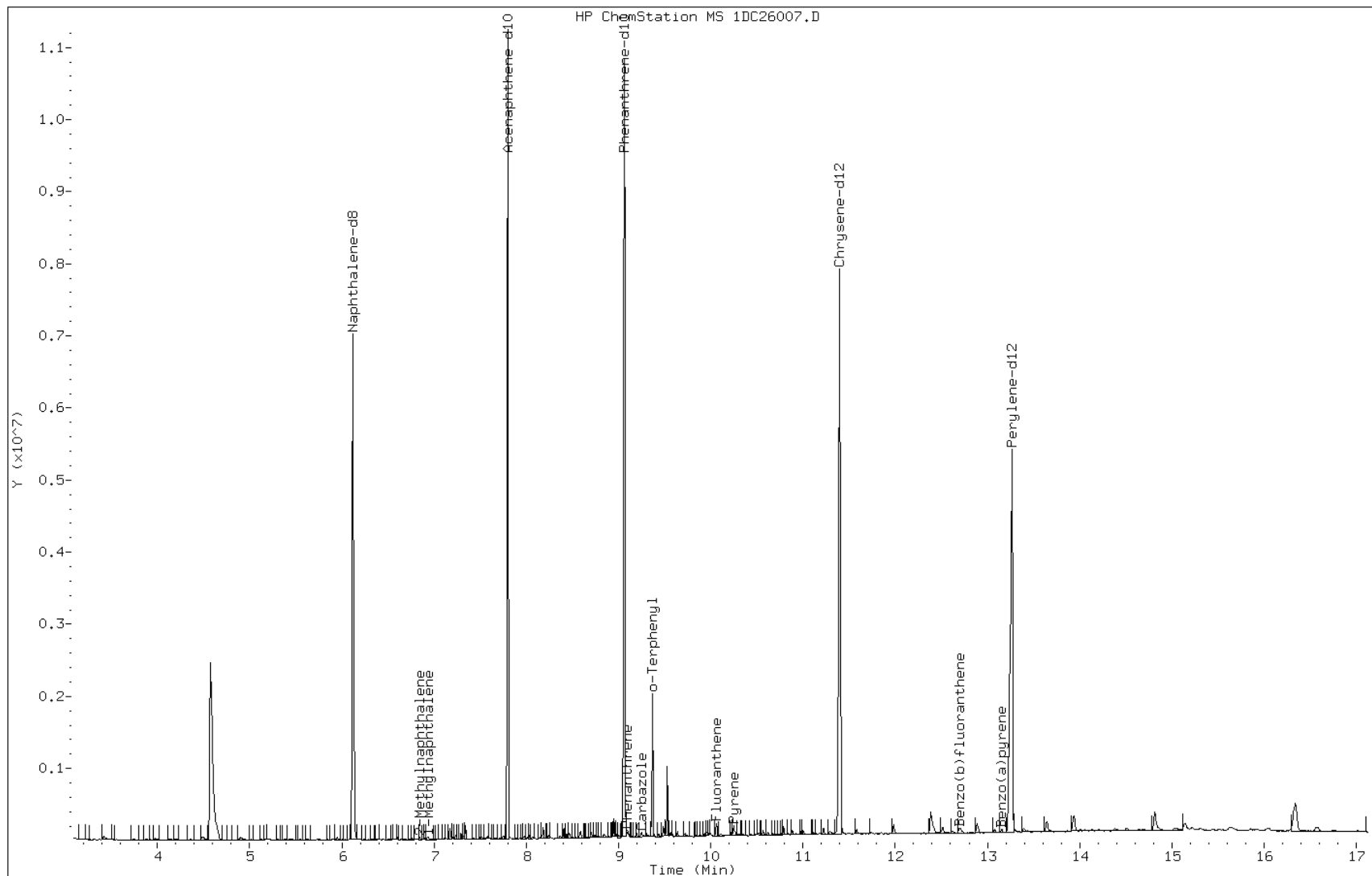
Date: 26-MAR-2013 12:02

Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

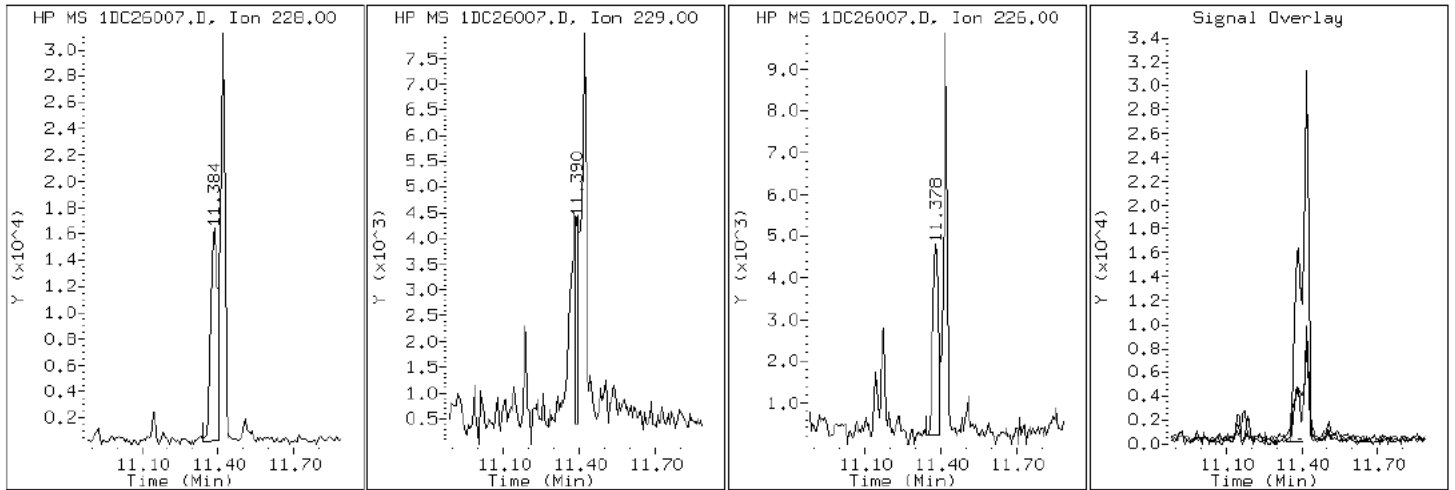
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

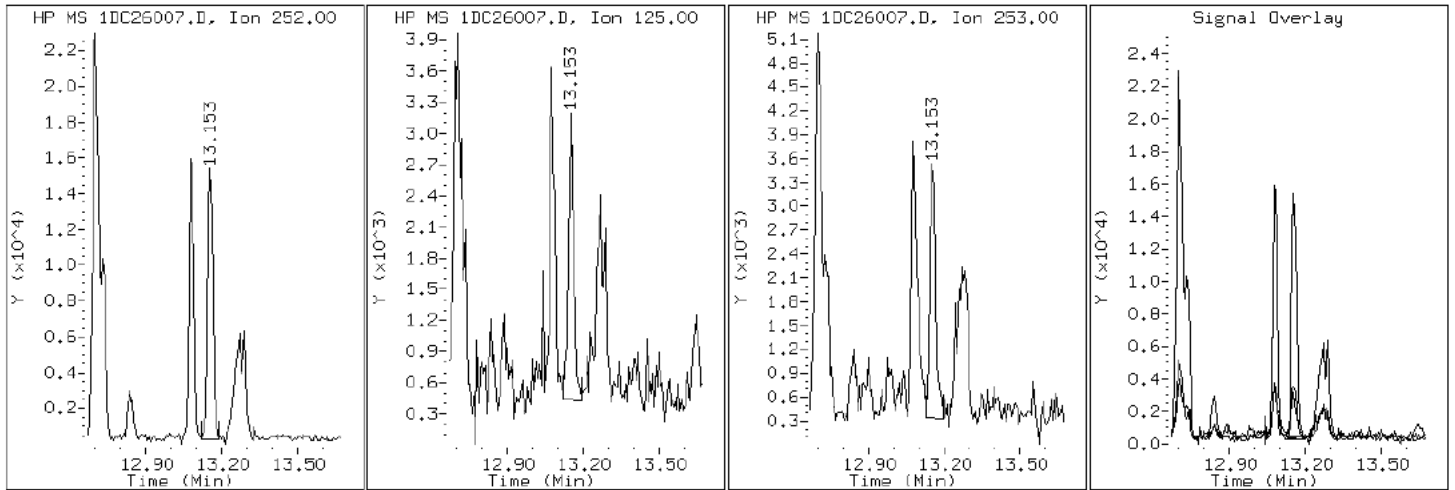
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

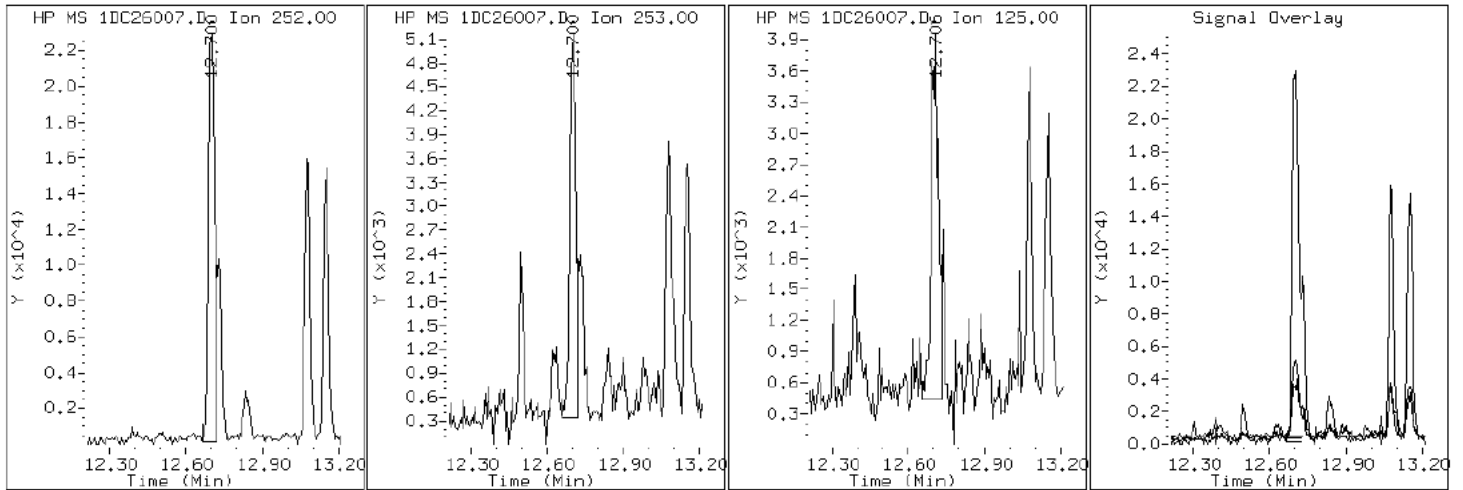
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

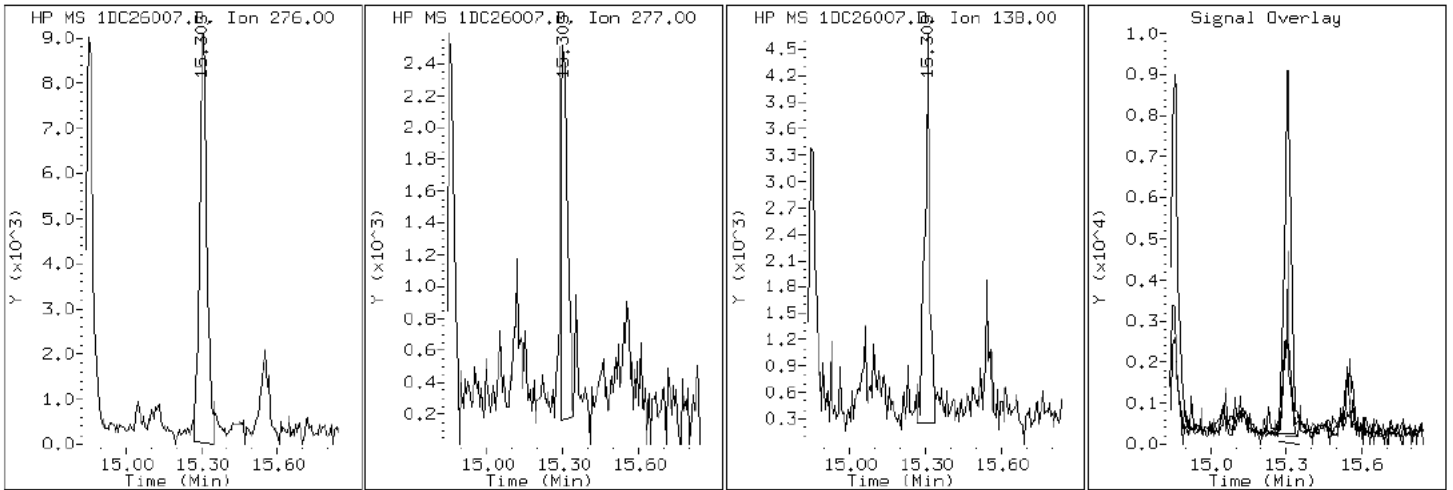
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

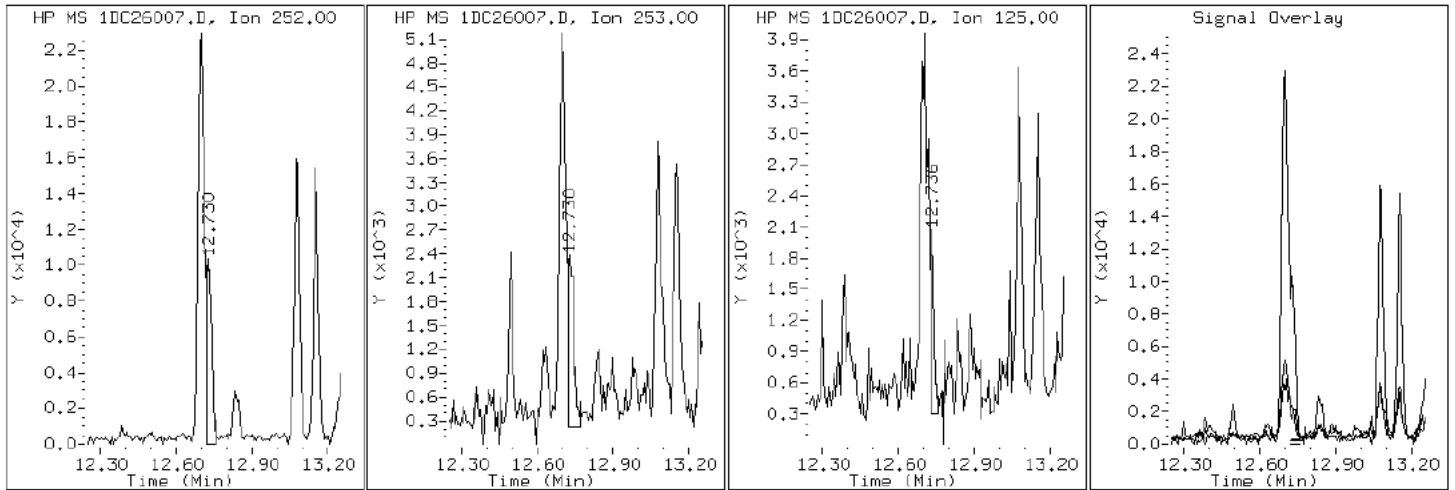
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

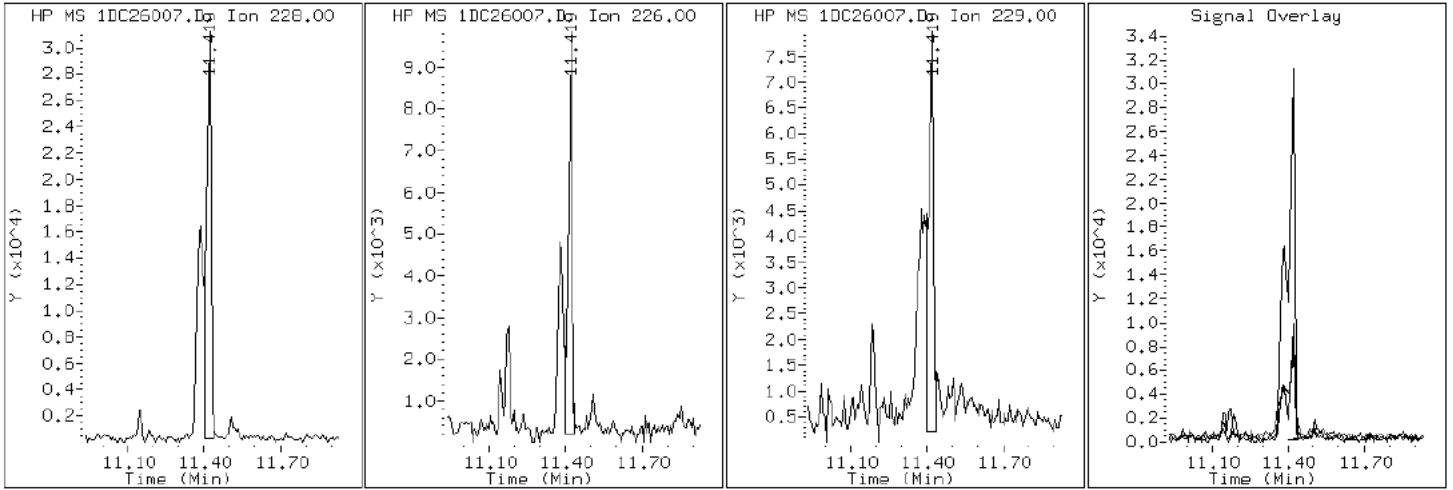
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

18 Chrysene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

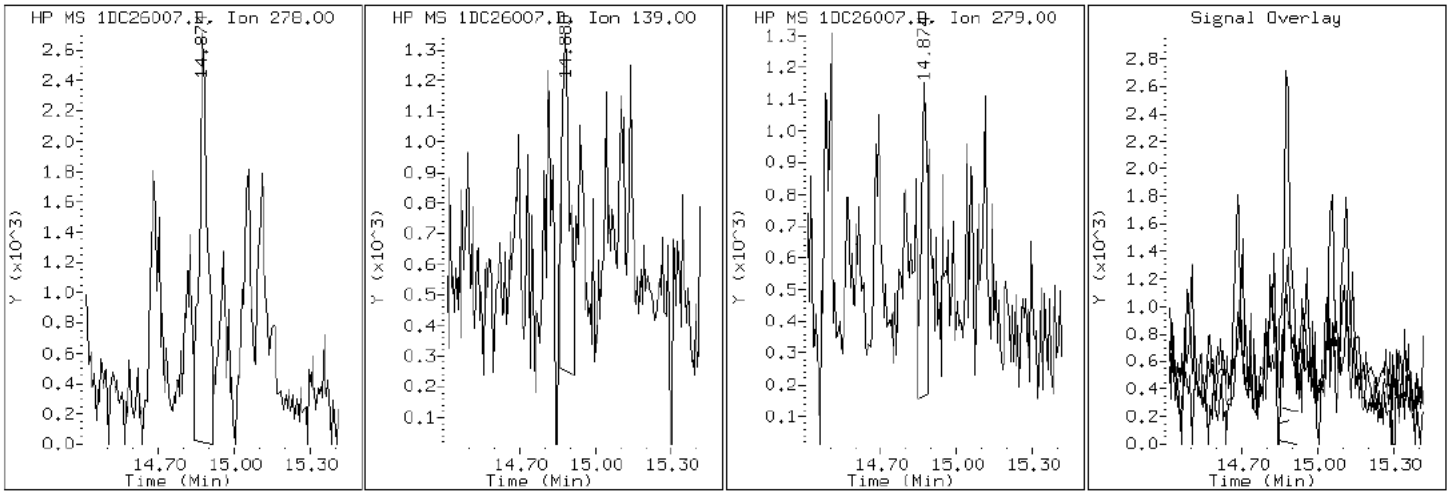
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

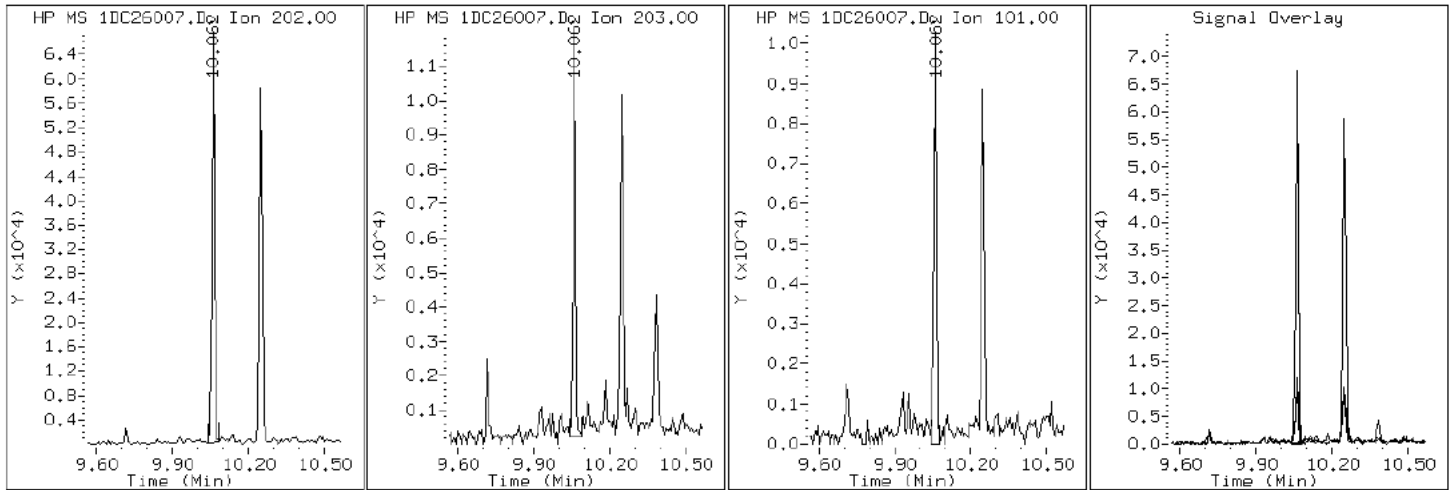
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

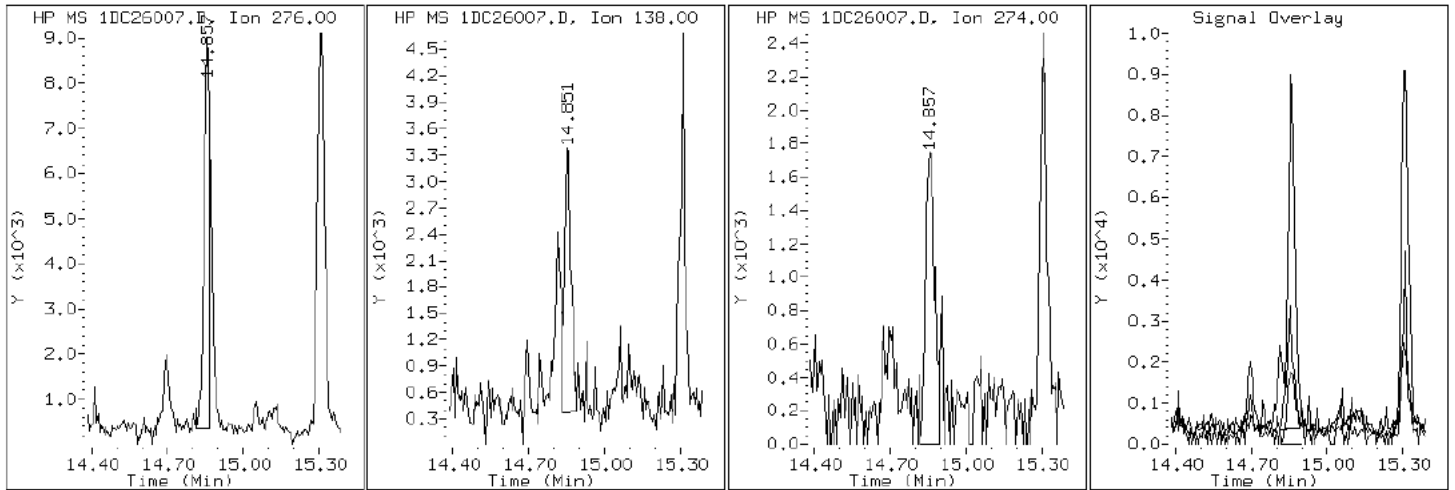
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

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



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

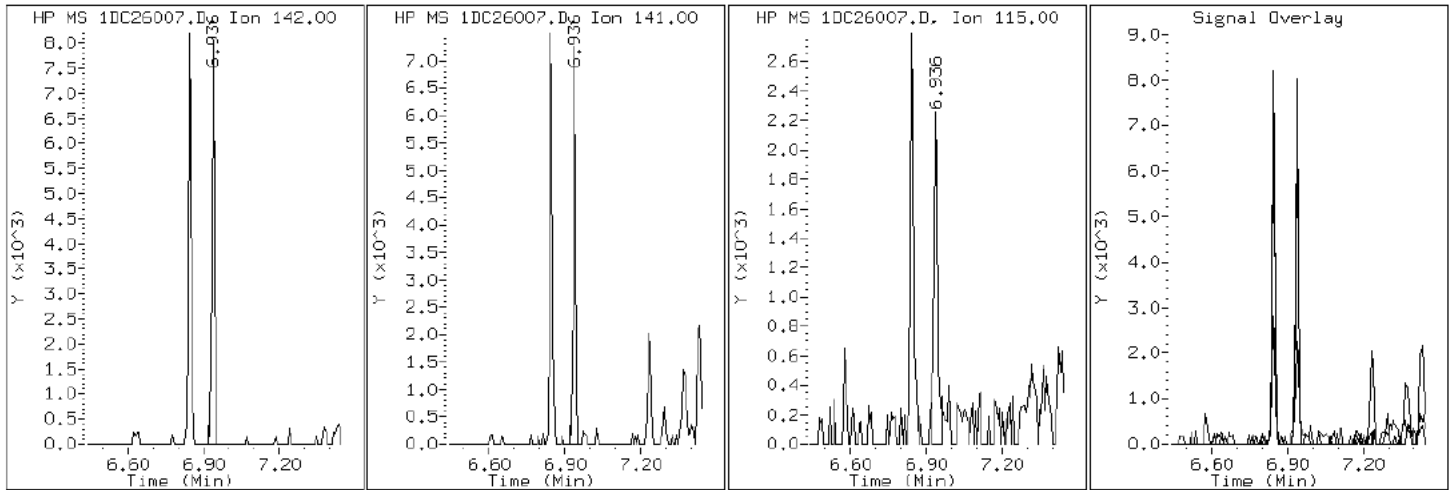
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

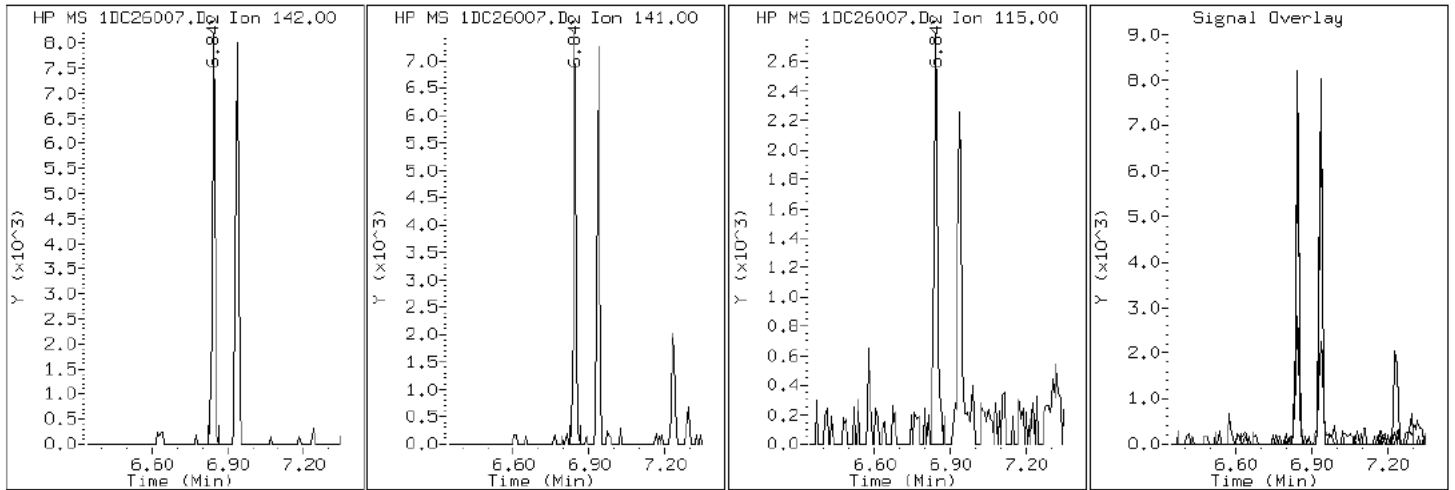
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

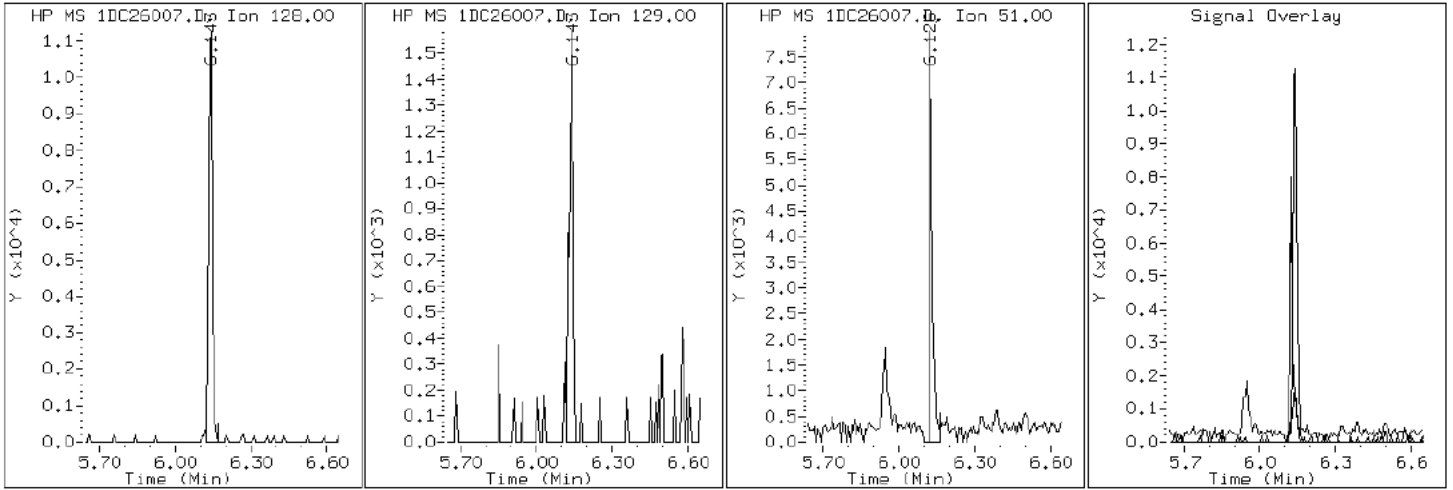
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

2 Naphthalene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

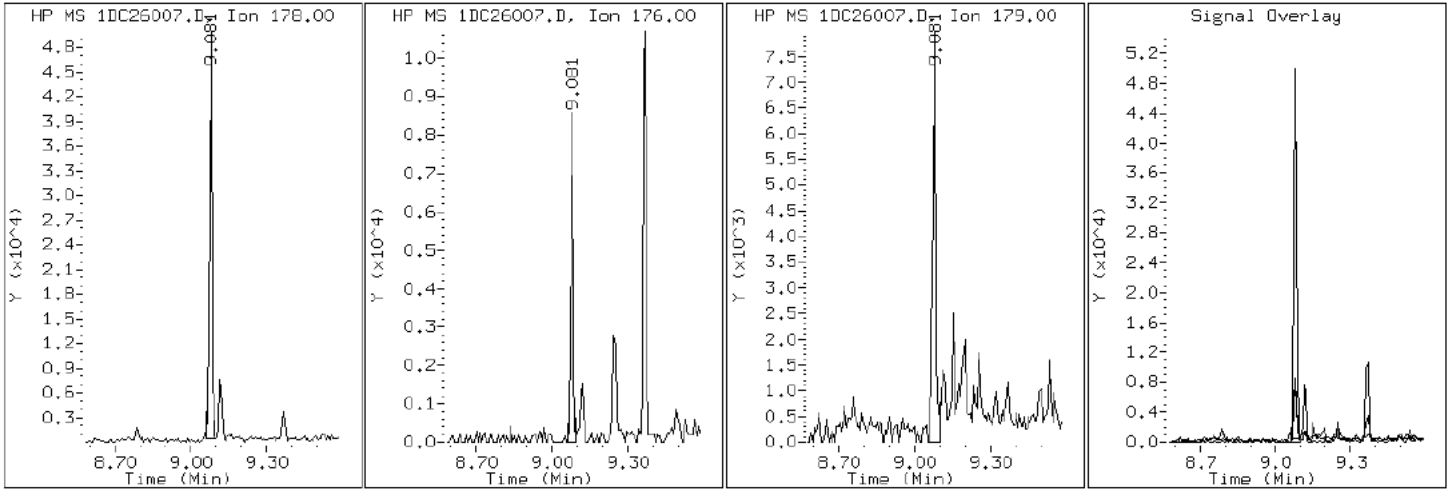
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26007.D

Date: 26-MAR-2013 12:02

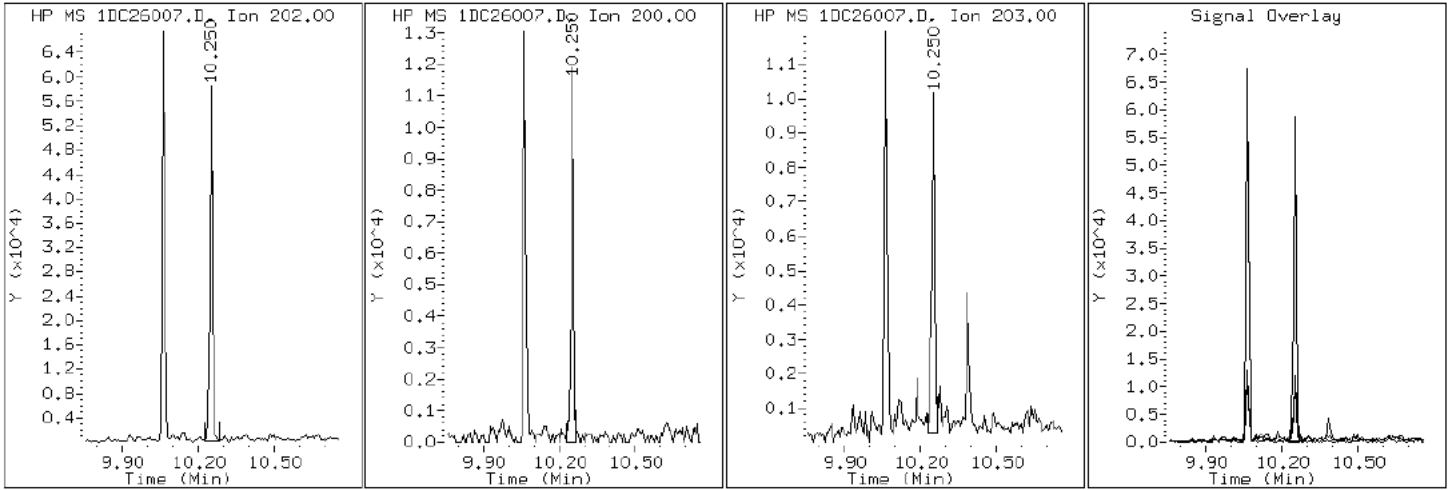
Client ID: CV0093C-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-6-A

Operator: SCC

15 Pyrene

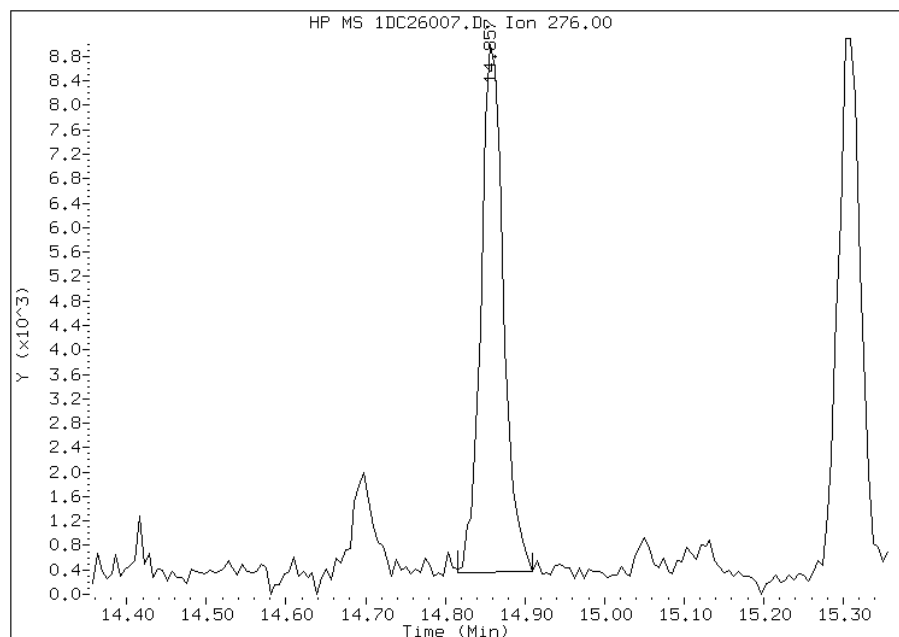


Manual Integration Report

Data File: 1DC26007.D
Inj. Date and Time: 26-MAR-2013 12:02
Instrument ID: BSMSD.i
Client ID: CV0093C-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

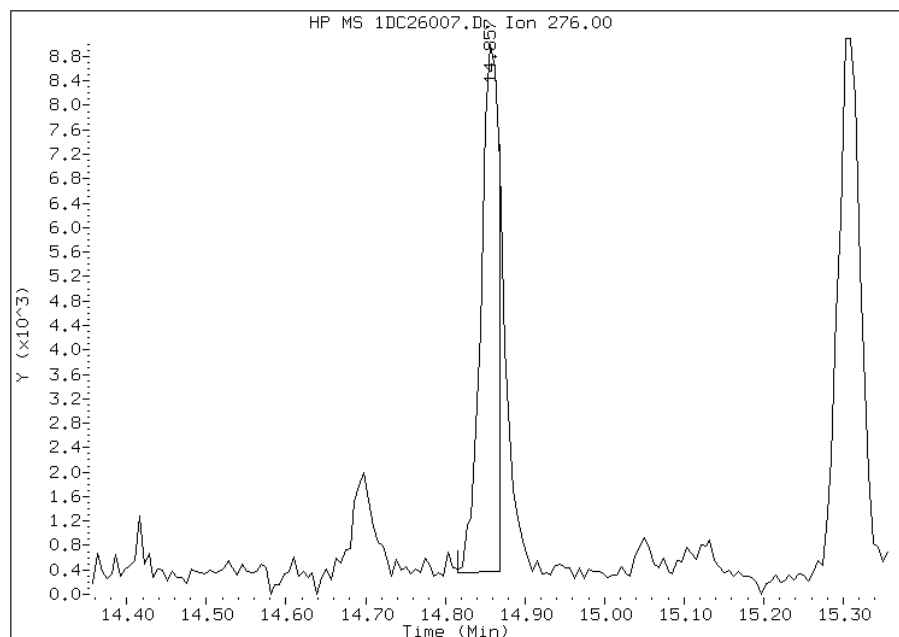
Processing Integration Results

RT: 14.86
Response: 16906
Amount: 0
Conc: 15



Manual Integration Results

RT: 14.86
Response: 13764
Amount: 0
Conc: 13



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 13:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0154A-CS Lab Sample ID: 680-88348-7
 Matrix: Solid Lab File ID: 1DC26008.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:45
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.47(g) Date Analyzed: 03/26/2013 12:25
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 28.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135792 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	55	U	55	6.8
120-12-7	Anthracene	12		11	5.7
56-55-3	Benzo[a]anthracene	120		11	5.3
50-32-8	Benzo[a]pyrene	150		14	7.1
205-99-2	Benzo[b]fluoranthene	280		17	8.3
191-24-2	Benzo[g,h,i]perylene	180		27	6.0
207-08-9	Benzo[k]fluoranthene	90		11	4.9
218-01-9	Chrysene	150		12	6.1
53-70-3	Dibenz(a,h)anthracene	55		27	5.6
206-44-0	Fluoranthene	120		27	5.5
86-73-7	Fluorene	5.8	J	27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	140		27	9.7
90-12-0	1-Methylnaphthalene	29	J	55	6.0
91-57-6	2-Methylnaphthalene	42	J	55	9.7
91-20-3	Naphthalene	50	J	55	6.0
85-01-8	Phenanthrene	74		11	5.3
129-00-0	Pyrene	110		27	5.0

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26008.D
 Lab Smp Id: 680-88348-A-7-A Client Smp ID: CV0154A-CS
 Inj Date : 26-MAR-2013 12:25
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-88348-A-7-A
 Misc Info : 680-88348-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.470	Weight Extracted
M	28.894	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.125	6.126	(1.000)	3438872	40.0000	
* 6 Acenaphthene-d10	164		7.800	7.800	(1.000)	2143631	40.0000	
* 9 Phenanthrene-d10	188		9.063	9.063	(1.000)	3457937	40.0000	
\$ 13 o-Terphenyl	230		9.368	9.375	(1.034)	372540	6.96680	630
* 17 Chrysene-d12	240		11.401	11.402	(1.000)	3362413	40.0000	
* 22 Perylene-d12	264		13.270	13.270	(1.000)	3469444	40.0000	
2 Naphthalene	128		6.143	6.149	(1.003)	50887	0.55317	50
3 2-Methylnaphthalene	142		6.848	6.848	(1.118)	26922	0.45942	42
4 1-Methylnaphthalene	142		6.936	6.942	(1.132)	17618	0.32106	29
5 Acenaphthylene	152		7.670	7.677	(0.983)	4158	0.04400	4.0
8 Fluorene	166		8.270	8.270	(1.060)	4293	0.06376	5.8
10 Phenanthrene	178		9.080	9.087	(1.002)	79744	0.81239	74
11 Anthracene	178		9.116	9.128	(1.006)	12602	0.12832	12
12 Carbazole	167		9.263	9.269	(1.022)	9092	0.10356	9.4

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.062	10.068	(1.110)	133852	1.30668	120
15 Pyrene	202	10.250	10.256	(0.899)	122181	1.17145	110
16 Benzo(a)anthracene	228	11.378	11.384	(0.998)	116995	1.27092	120
18 Chrysene	228	11.419	11.431	(1.002)	154863	1.62949	150
19 Benzo(b)fluoranthene	252	12.700	12.712	(0.957)	278900	3.12308	280
20 Benzo(k)fluoranthene	252	12.729	12.753	(0.959)	92149	0.98552	90
21 Benzo(a)pyrene	252	13.158	13.170	(0.992)	143702	1.62610	150
23 Indeno(1,2,3-cd)pyrene	276	14.862	14.886	(1.120)	147074	1.55948	140(M)
24 Dibenzo(a,h)anthracene	278	14.885	14.915	(1.122)	52387	0.60148	55
25 Benzo(g,h,i)perylene	276	15.314	15.344	(1.154)	176626	1.96429	180

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DC26008.D

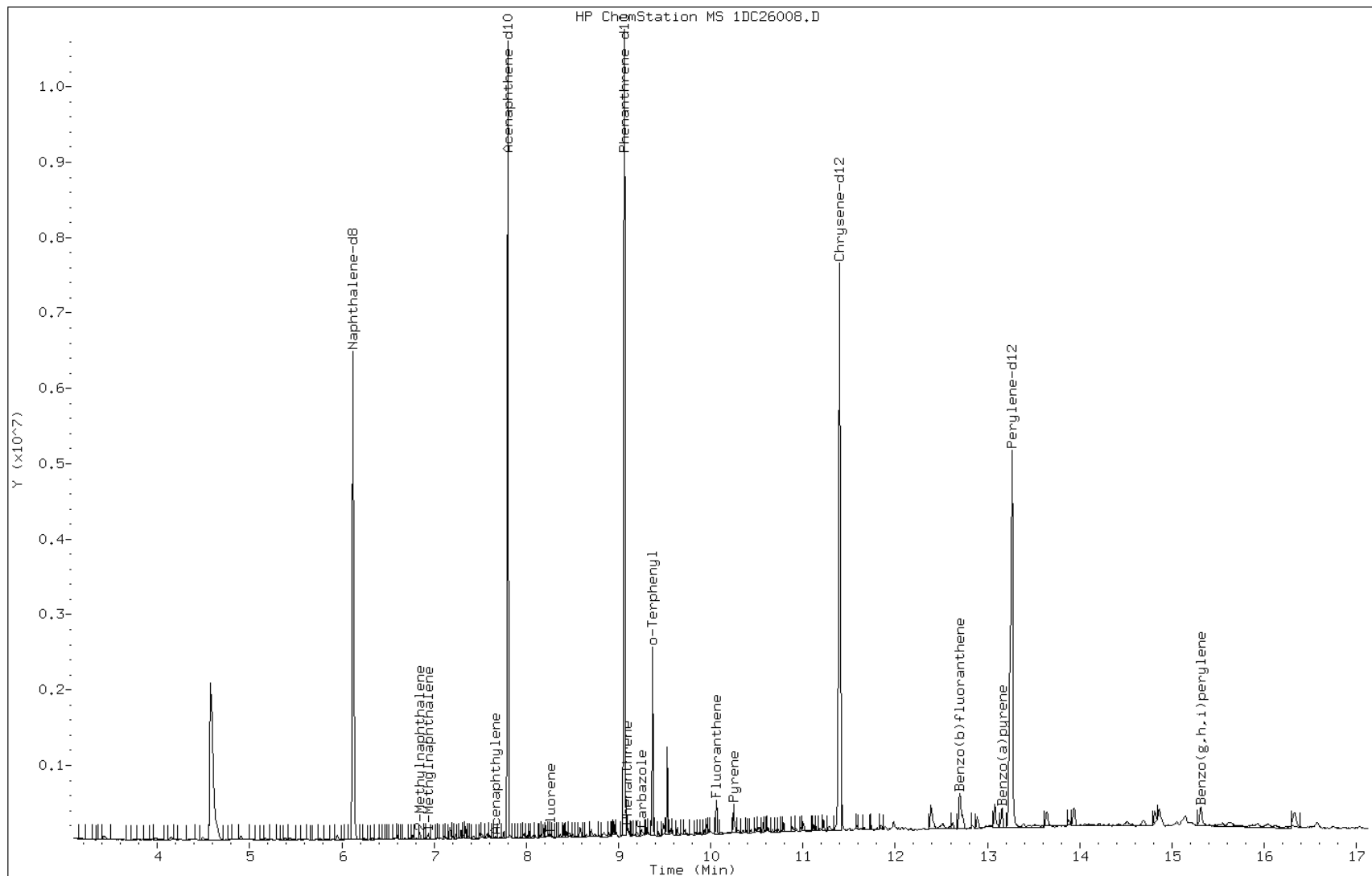
Date: 26-MAR-2013 12:25

Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

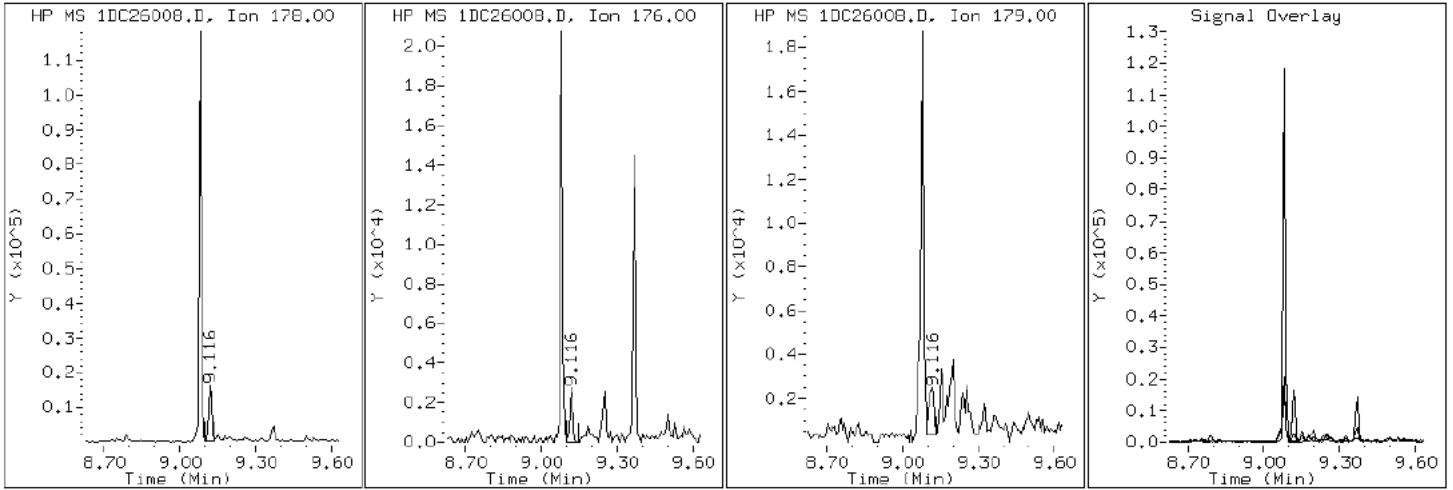
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

11 Anthracene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

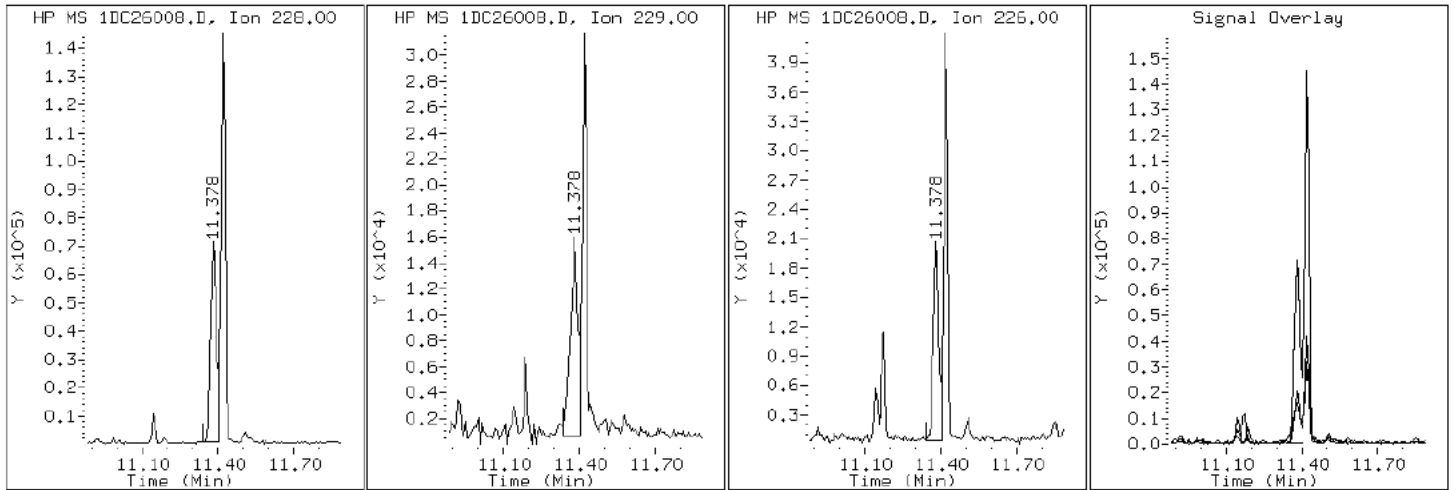
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

16 Benzo(a)anthracene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

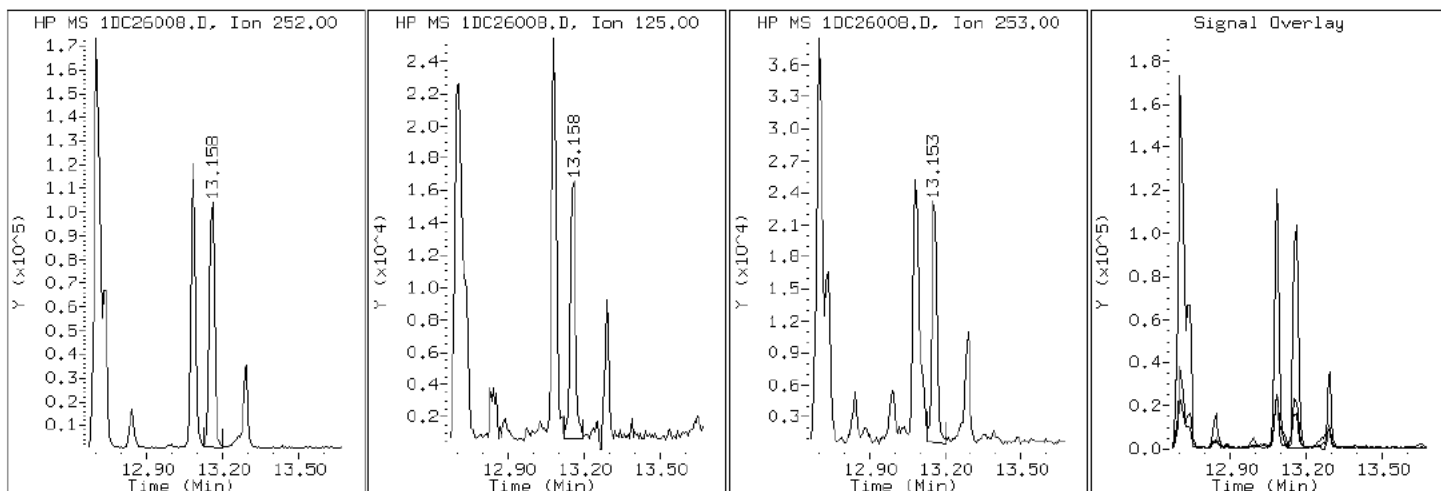
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

21 Benzo(a)pyrene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

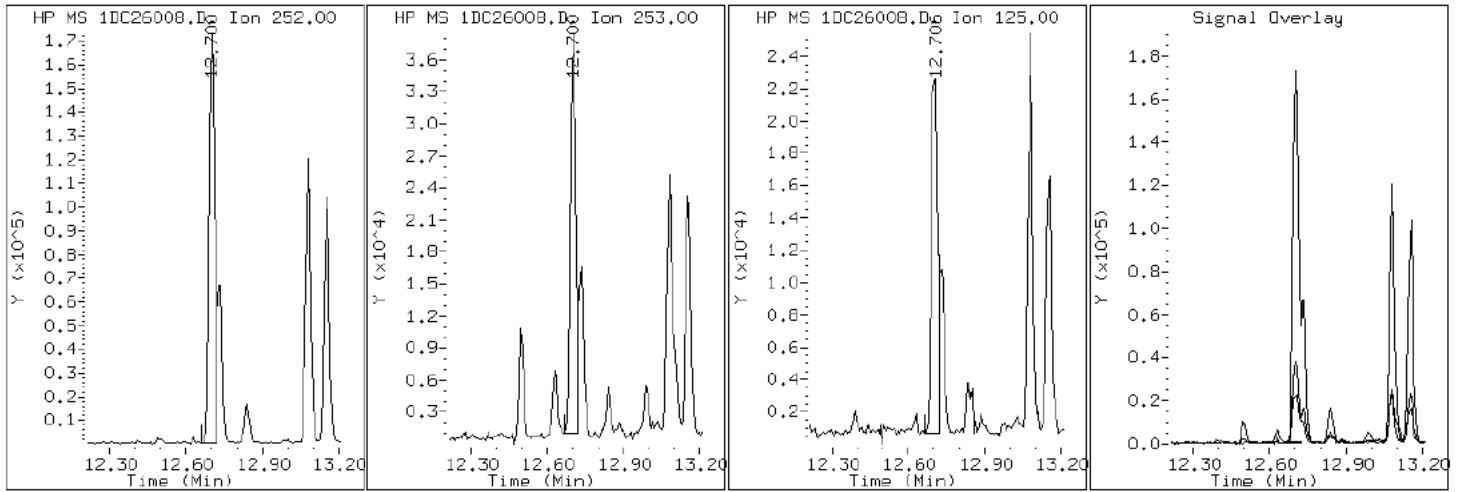
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

19 Benzo (b) fluoranthene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

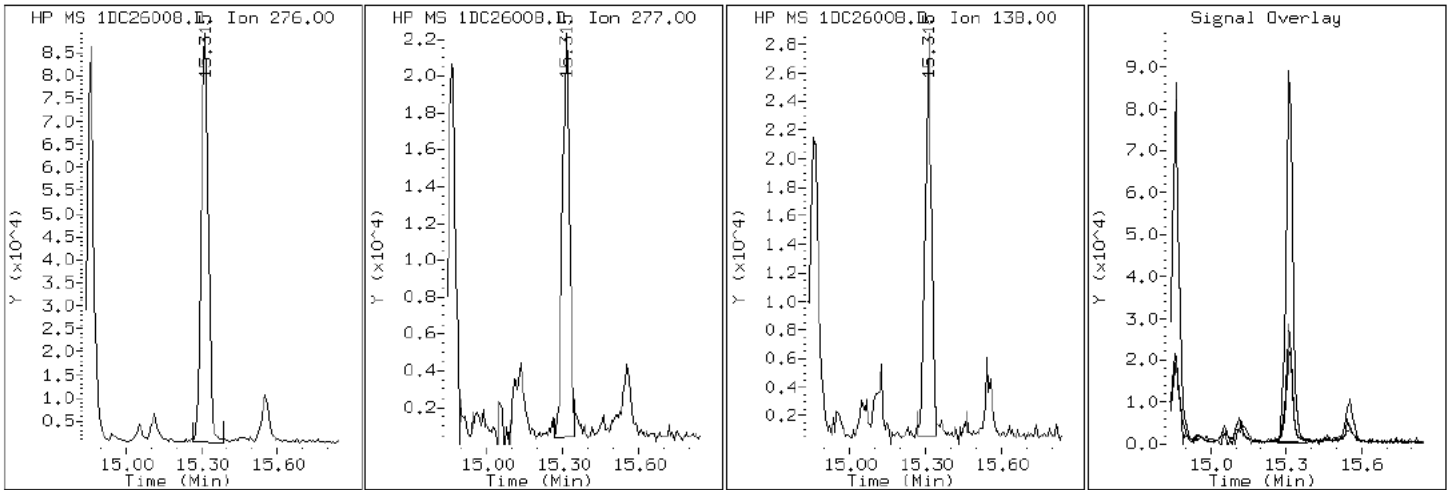
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

25 Benzo(g,h,i)perylene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

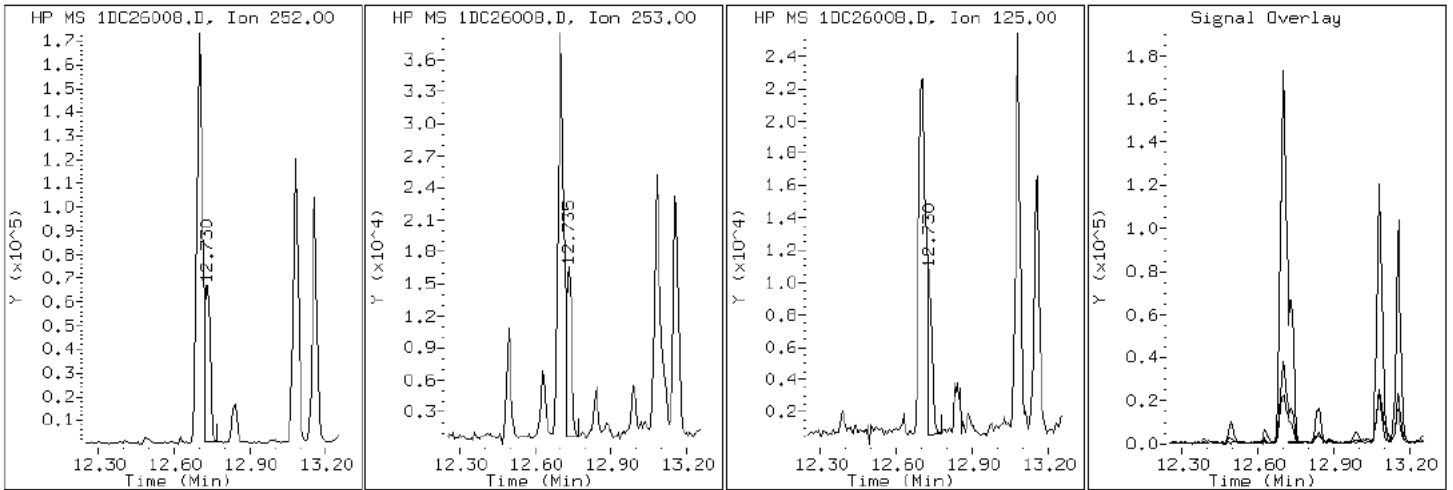
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

20 Benzo(k)fluoranthene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

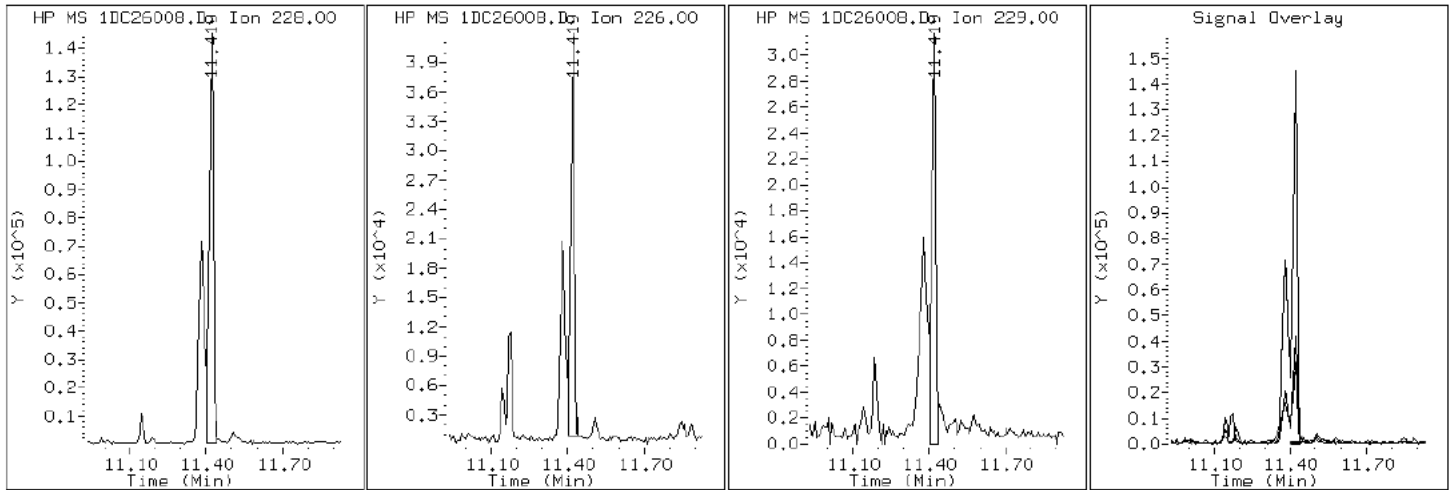
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

18 Chrysene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

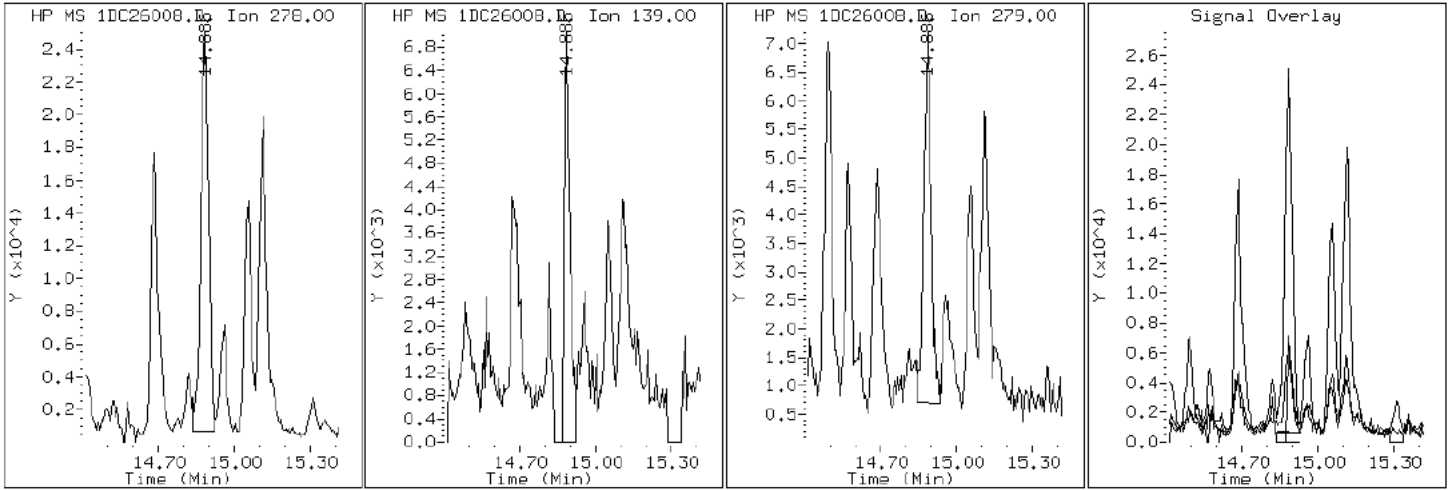
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

24 Dibenzo (a,h) anthracene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

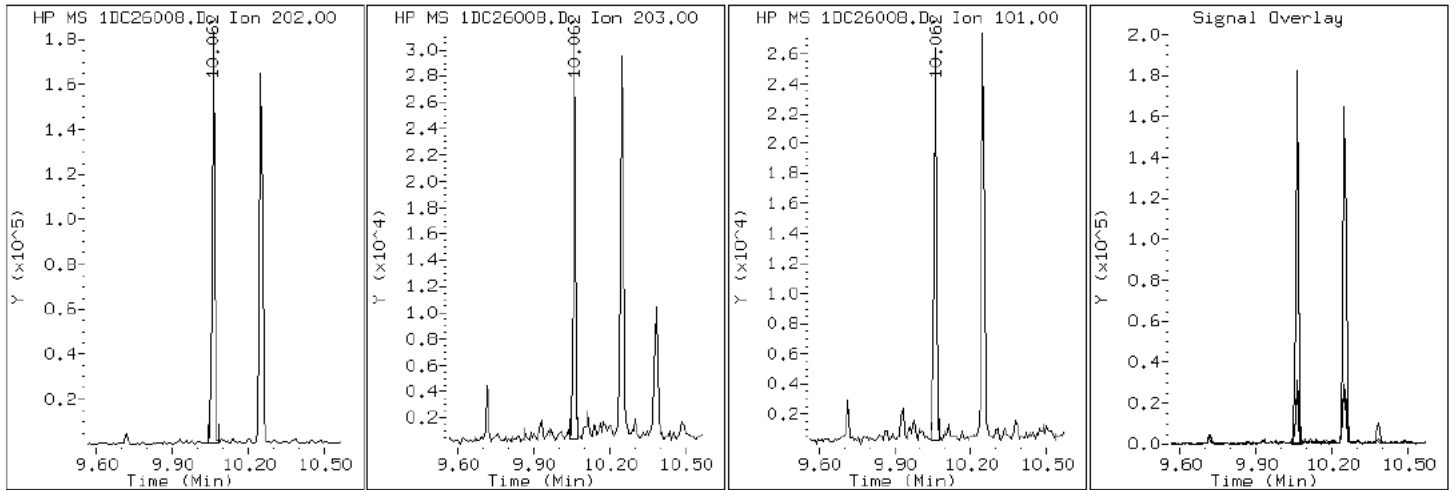
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

14 Fluoranthene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

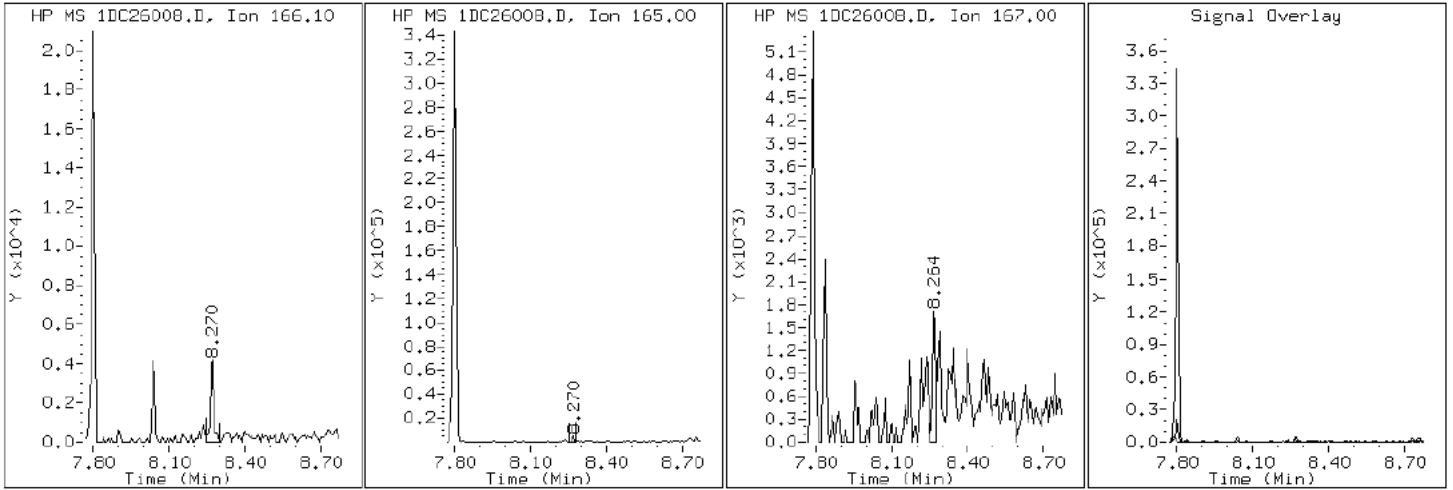
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

8 Fluorene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

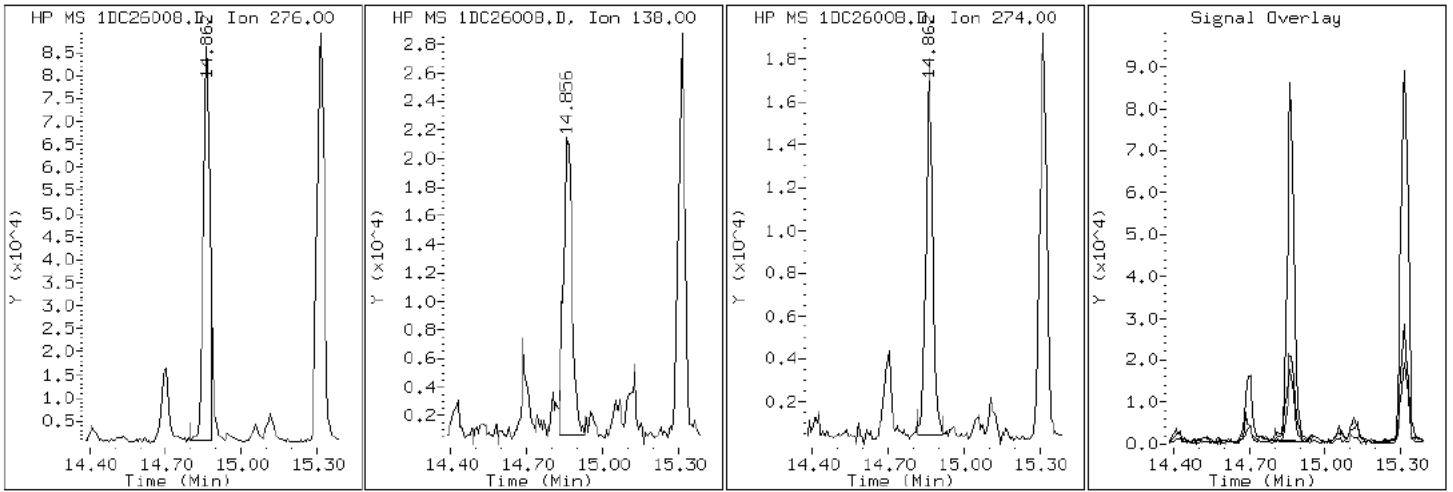
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

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



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

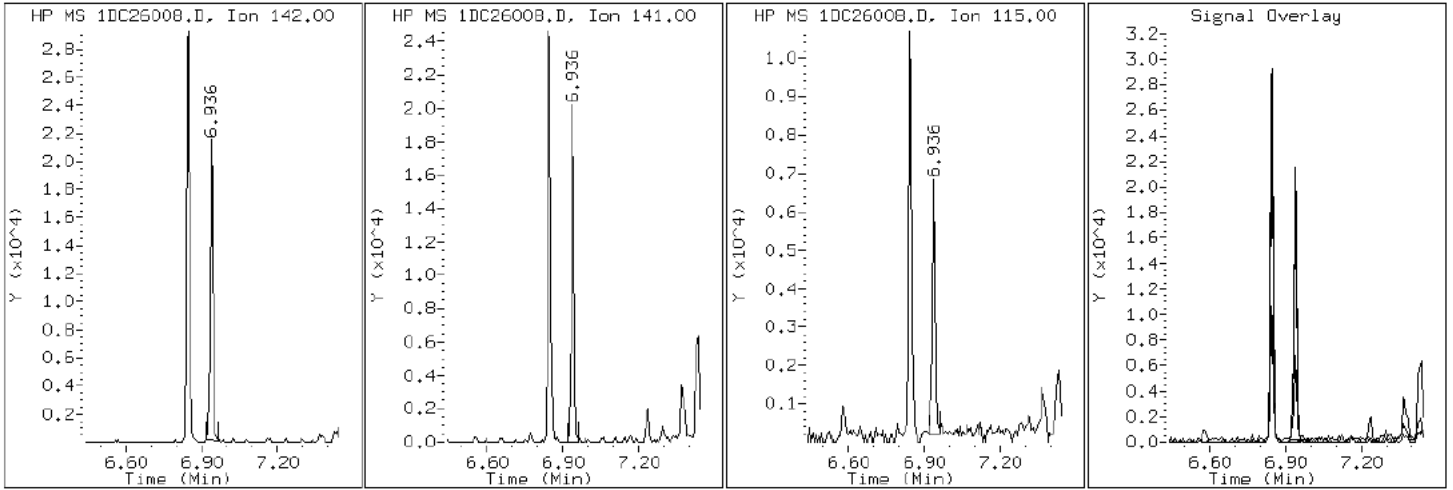
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

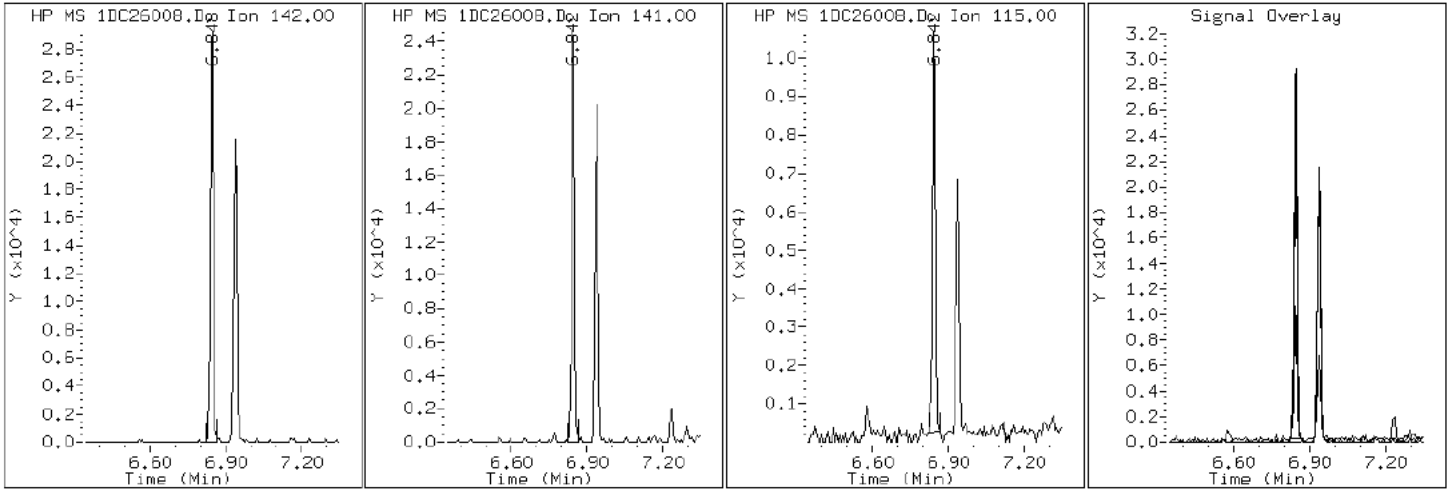
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

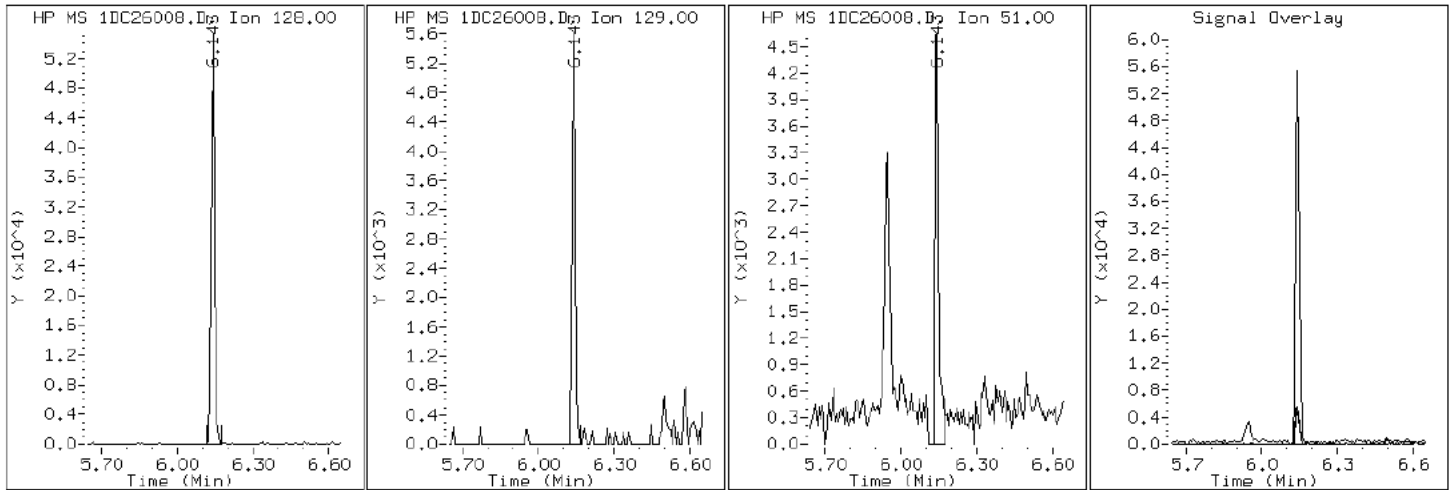
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

2 Naphthalene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

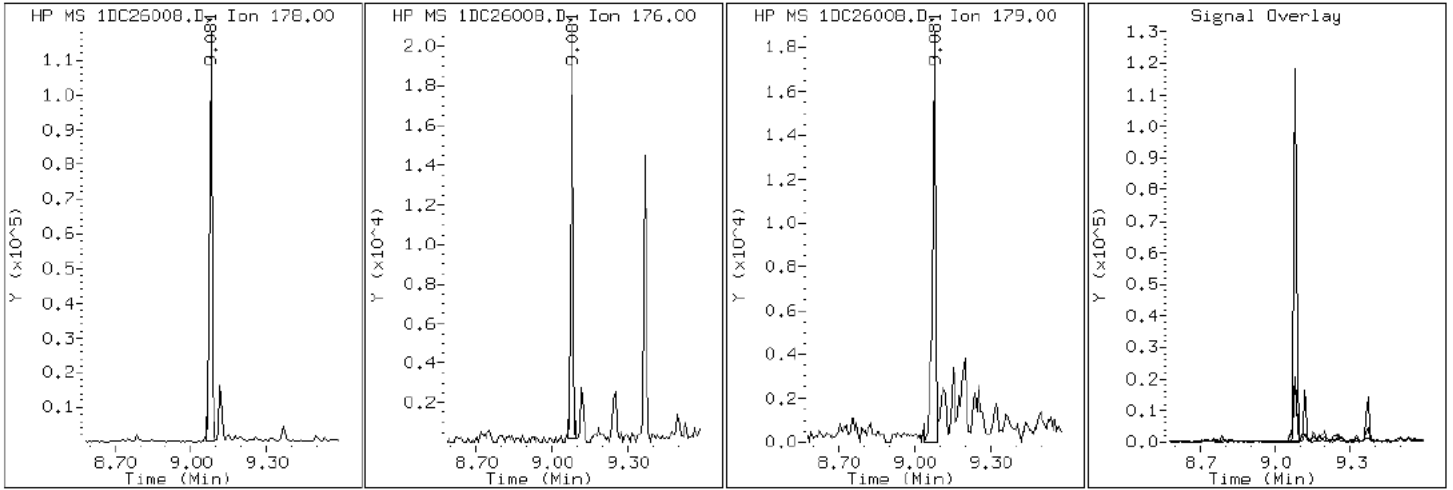
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

10 Phenanthrene



Data File: 1DC26008.D

Date: 26-MAR-2013 12:25

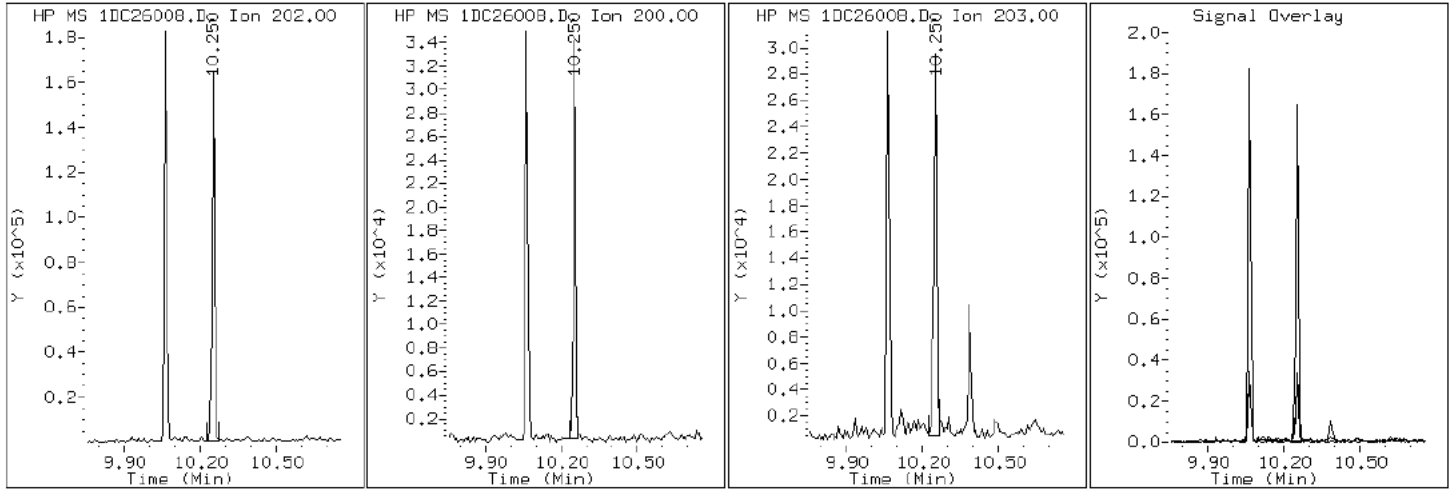
Client ID: CV0154A-CS

Instrument: BSMSD.i

Sample Info: 680-88348-A-7-A

Operator: SCC

15 Pyrene

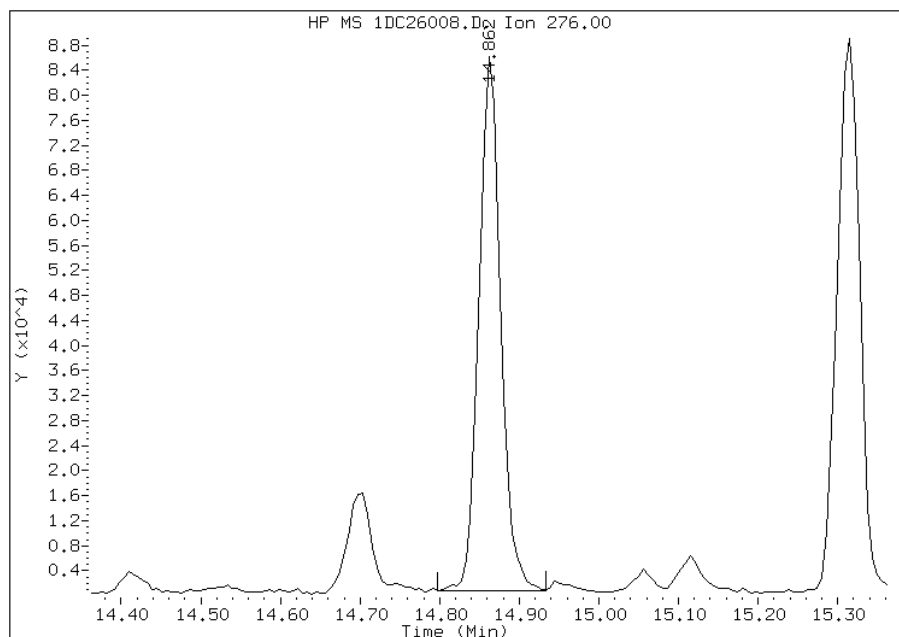


Manual Integration Report

Data File: 1DC26008.D
Inj. Date and Time: 26-MAR-2013 12:25
Instrument ID: BSMSD.i
Client ID: CV0154A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

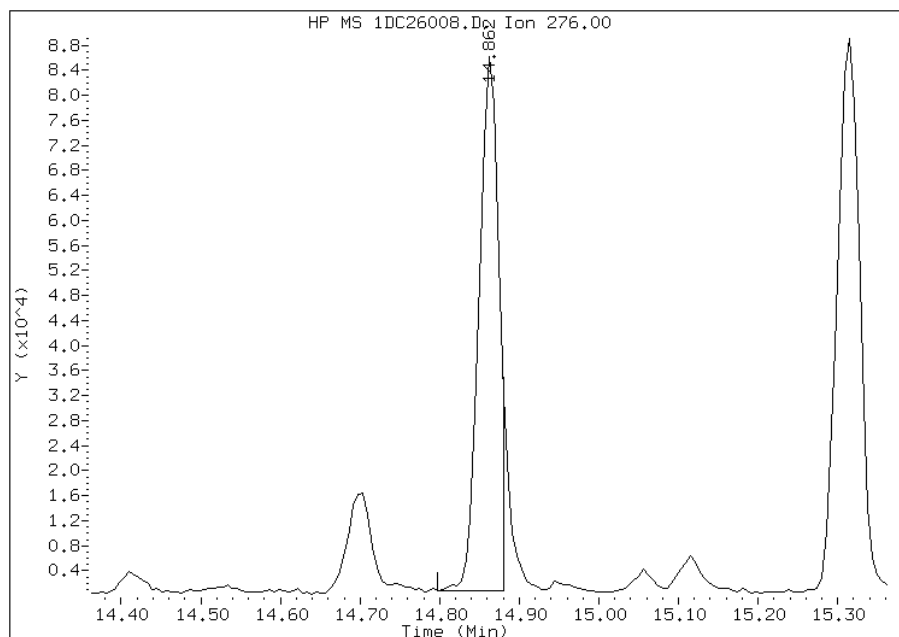
Processing Integration Results

RT: 14.86
Response: 160771
Amount: 2
Conc: 155



Manual Integration Results

RT: 14.86
Response: 147074
Amount: 2
Conc: 142



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 13:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0154B-CS Lab Sample ID: 680-88348-8
 Matrix: Solid Lab File ID: 1CC21014.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:56
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.10(g) Date Analyzed: 03/21/2013 14:55
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	24	J	54	6.7
120-12-7	Anthracene	37		11	5.7
56-55-3	Benzo[a]anthracene	270		11	5.3
50-32-8	Benzo[a]pyrene	300		14	7.0
205-99-2	Benzo[b]fluoranthene	650		16	8.2
191-24-2	Benzo[g,h,i]perylene	340		27	5.9
207-08-9	Benzo[k]fluoranthene	270		11	4.9
218-01-9	Chrysene	490		12	6.1
53-70-3	Dibenz(a,h)anthracene	120		27	5.5
206-44-0	Fluoranthene	330		27	5.4
86-73-7	Fluorene	40		27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	260		27	9.6
90-12-0	1-Methylnaphthalene	160		54	5.9
91-57-6	2-Methylnaphthalene	170		54	9.6
91-20-3	Naphthalene	170		54	5.9
85-01-8	Phenanthrene	300		11	5.3
129-00-0	Pyrene	310		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21014.D
 Lab Smp Id: 680-88348-A-8-A Client Smp ID: CV0154B-CS
 Inj Date : 21-MAR-2013 14:55
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-8-a
 Misc Info : 680-88348-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	26.316	% 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		3.739	3.739	(1.000)	914432	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	741761	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1327977	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	125358	6.25221	561.9299	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1449886	40.0000		
* 23 Perylene-d12	264		8.904	8.898	(1.000)	1395103	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	44953	1.88830	169.7143	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	30501	1.92075	172.6313	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	25417	1.75743	157.9521	
5 Acenaphthylene	152		4.739	4.739	(0.982)	8141	0.27222	24.4667(Q)	
9 Fluorene	166		5.163	5.162	(1.069)	10429	0.44364	39.8730(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	128808	3.35444	301.4872	
12 Anthracene	178		5.821	5.821	(1.008)	15392	0.40986	36.8370	
13 Carbazole	167		5.933	5.933	(1.028)	22008	0.65926	59.2519(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.627	6.627	(1.148)	154418	3.67209	330.0365
16 Pyrene	202	6.798	6.792	(0.881)	132403	3.39812	305.4128
17 Benzo(a)anthracene	228	7.710	7.709	(0.999)	124806	2.98247	268.0555
19 Chrysene	228	7.739	7.733	(1.003)	230263	5.49843	494.1825
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.961)	261877	7.18274	645.5628(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	111876	2.99122	268.8415(QM)
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	118147	3.33618	299.8459
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	96273	2.88983	259.7293(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.132)	43089	1.32231	118.8451(M)
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	133042	3.81760	343.1142

QC Flag Legend

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

Data File: 1CC21014.D

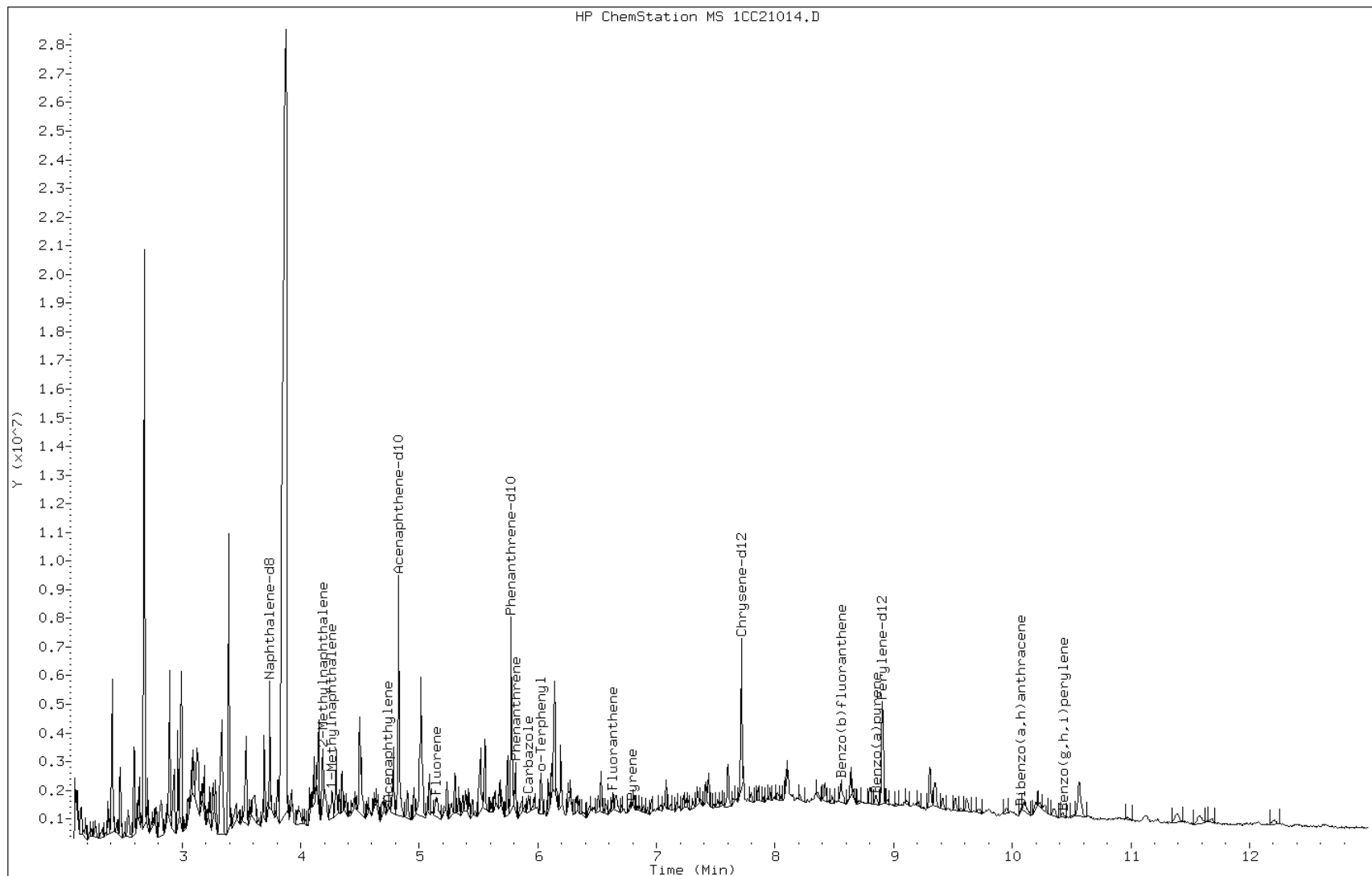
Date: 21-MAR-2013 14:55

Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

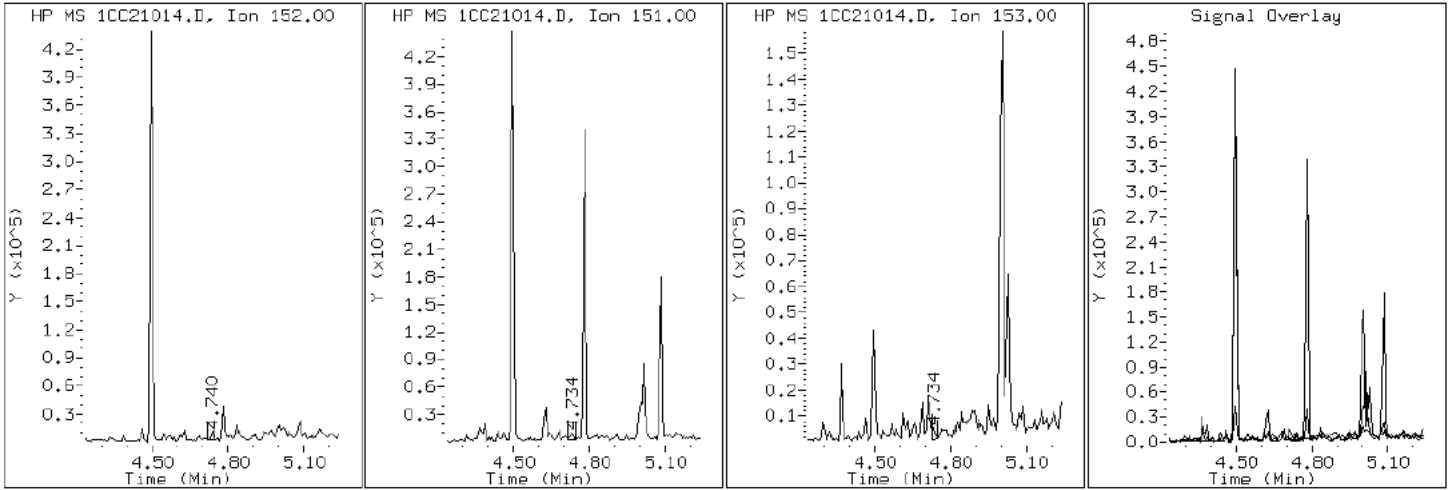
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

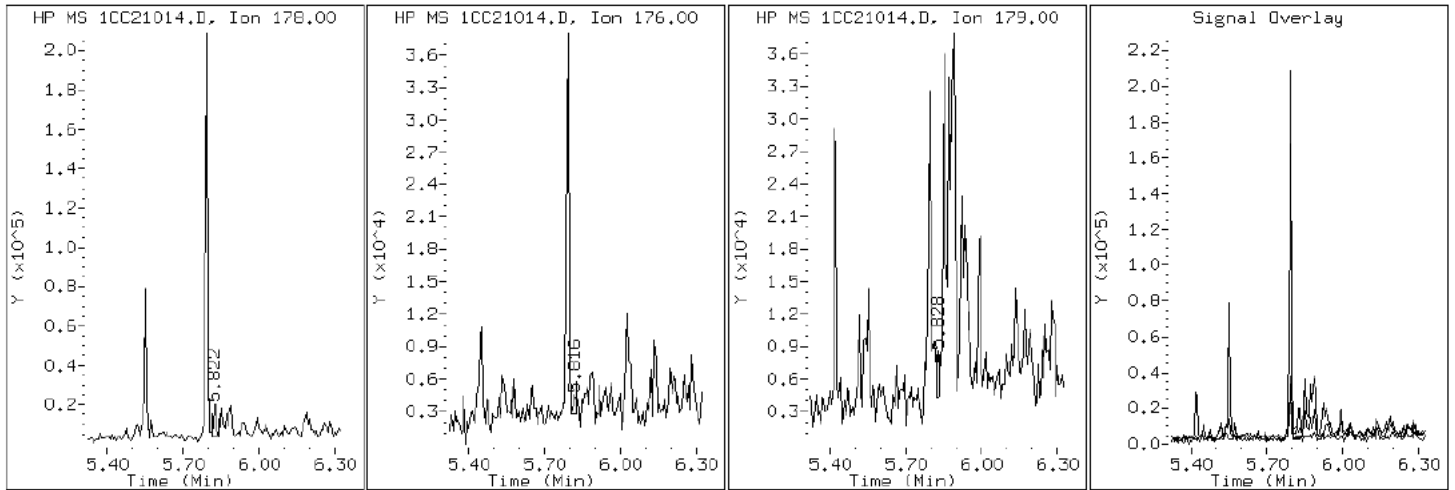
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

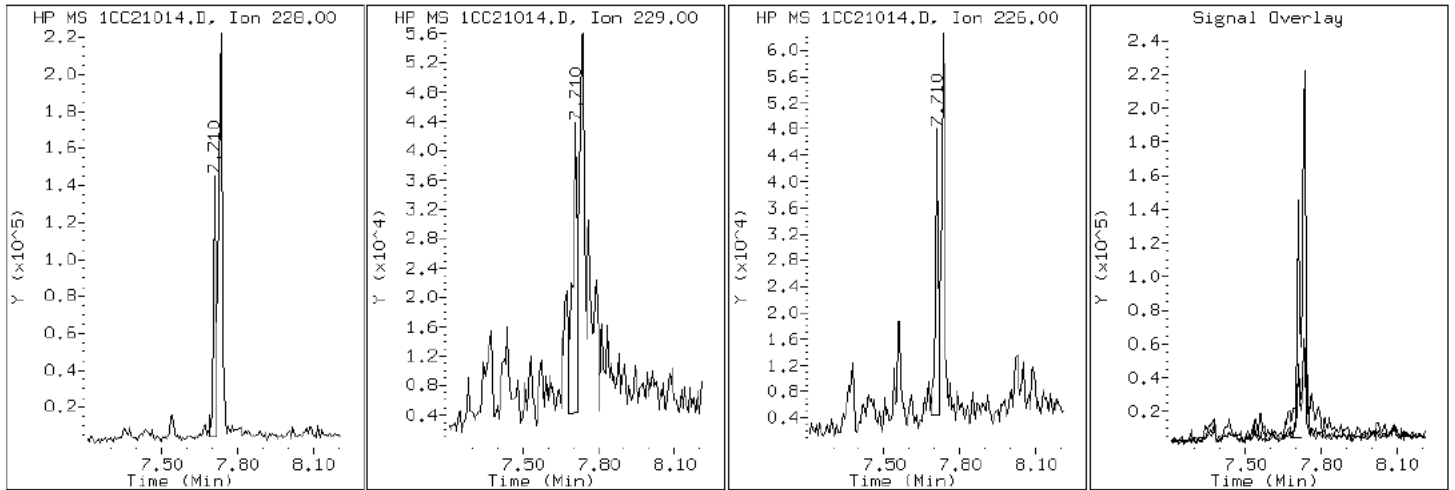
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

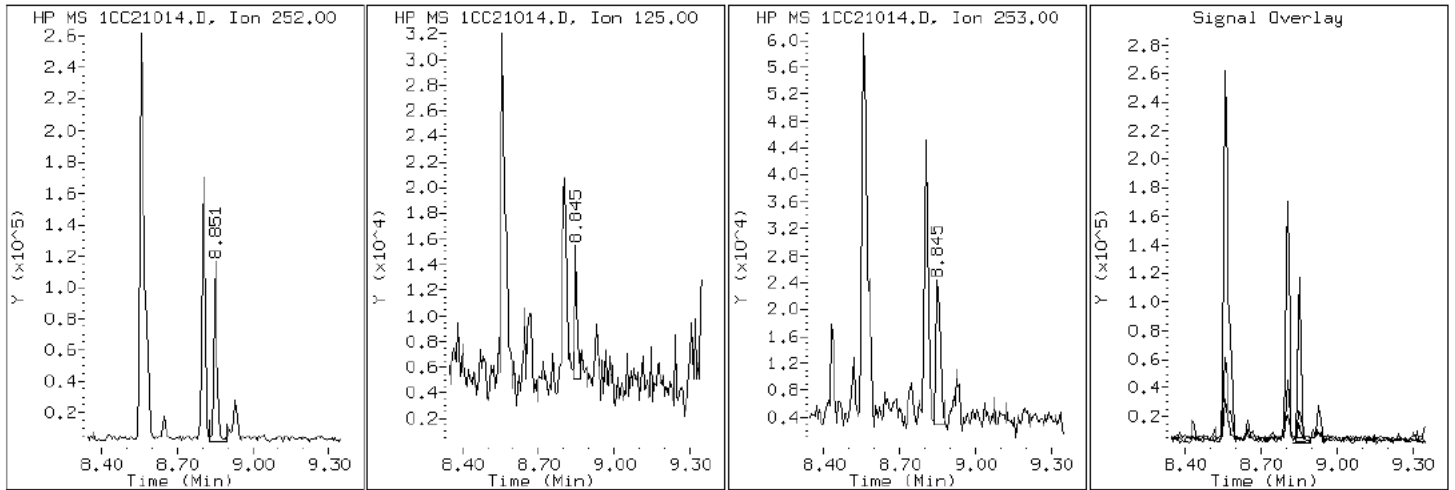
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

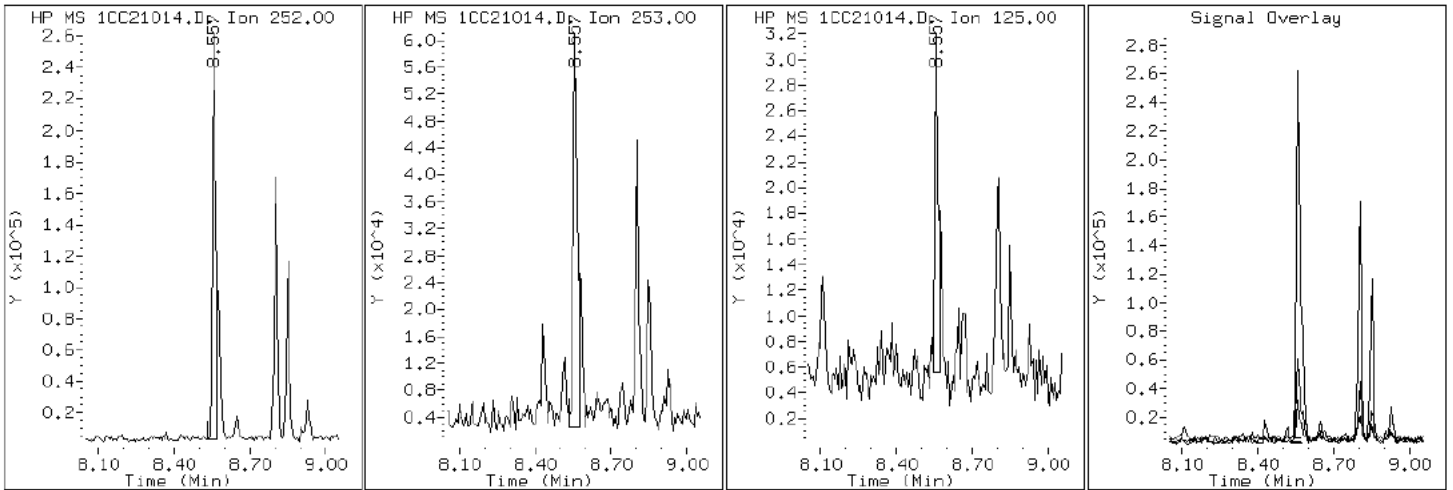
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

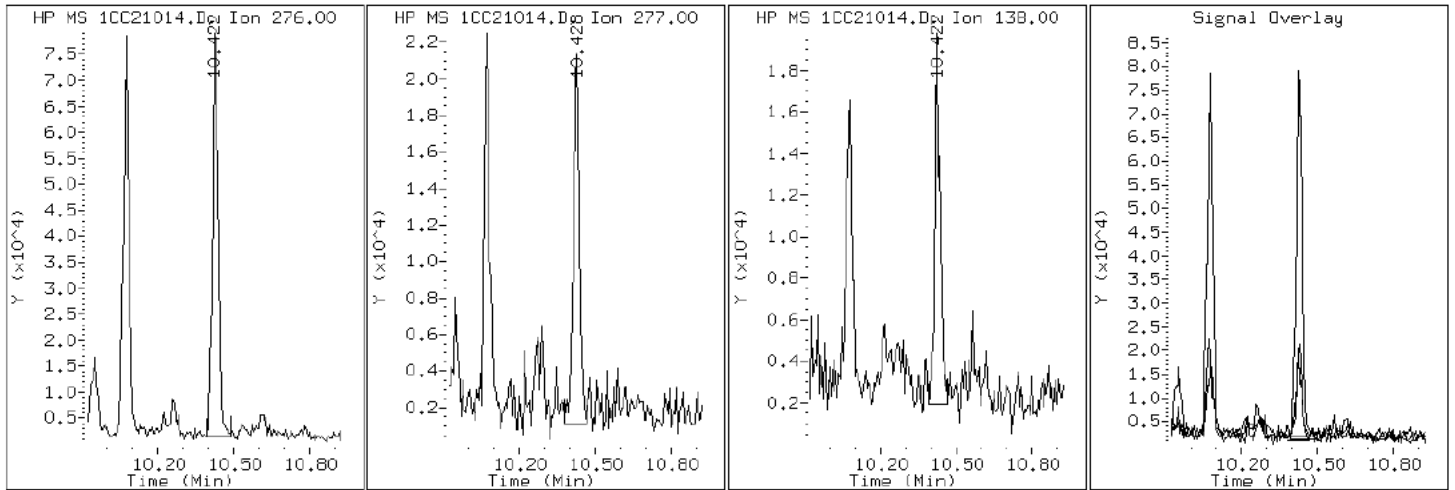
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

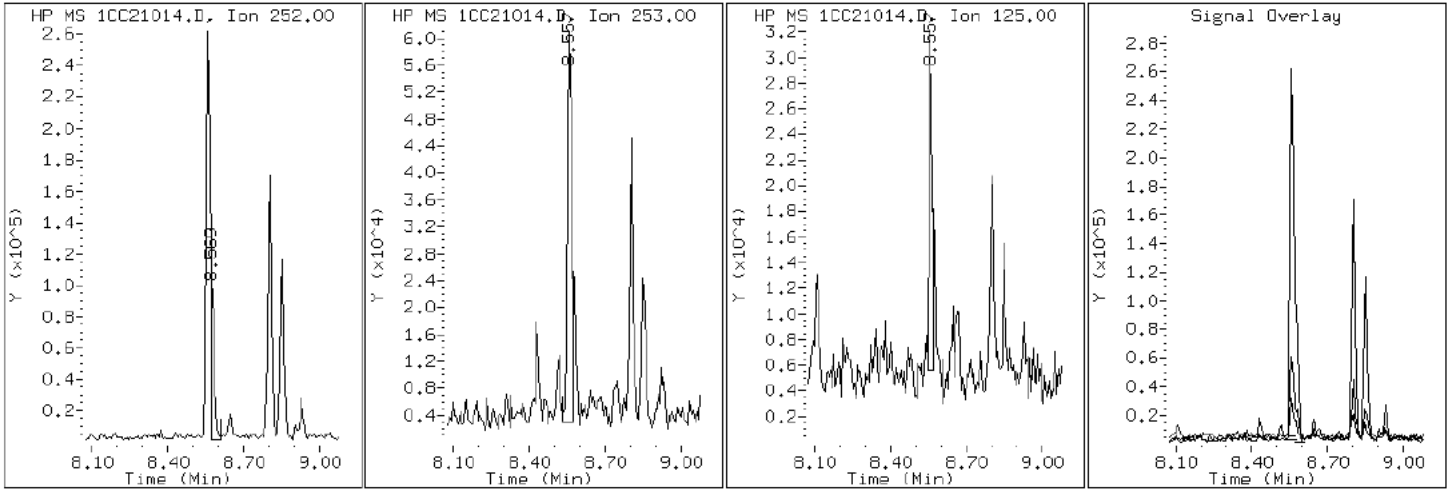
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

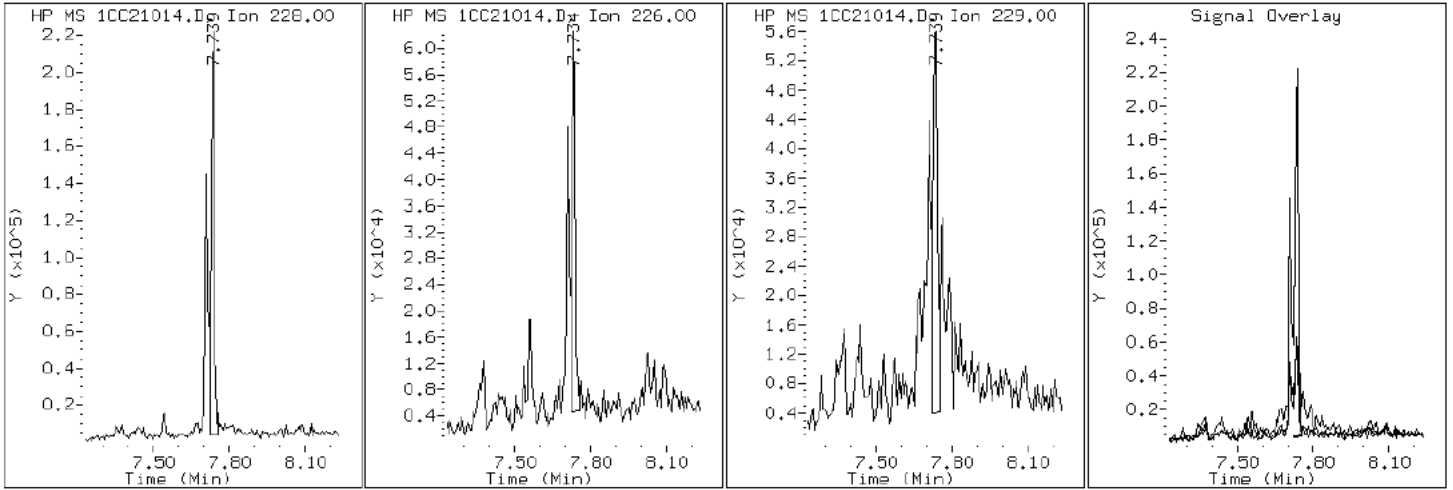
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

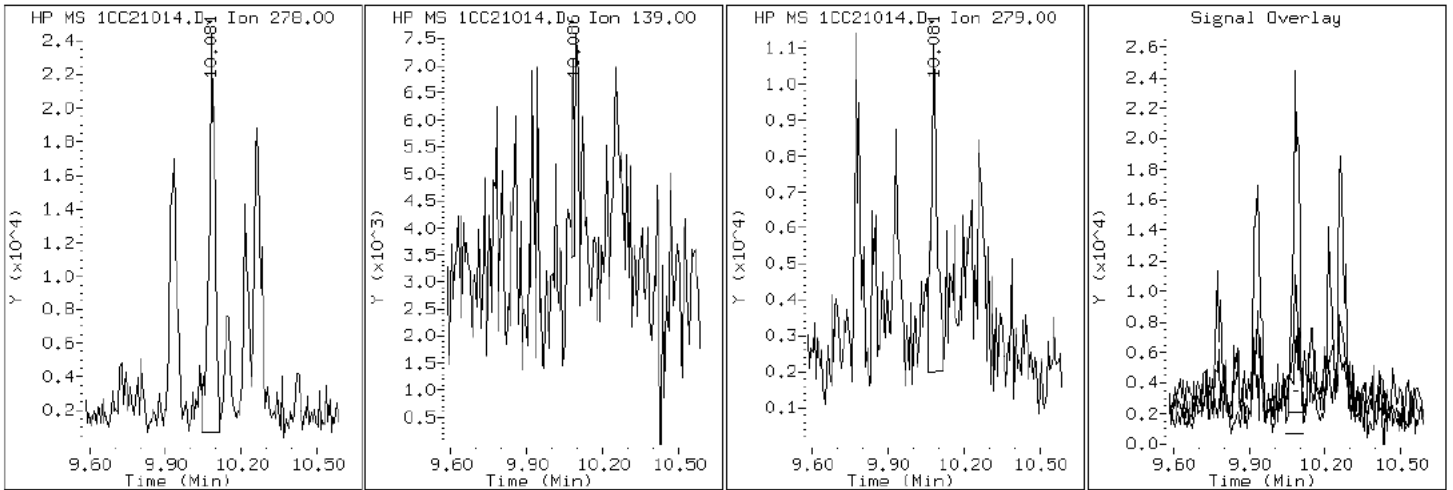
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

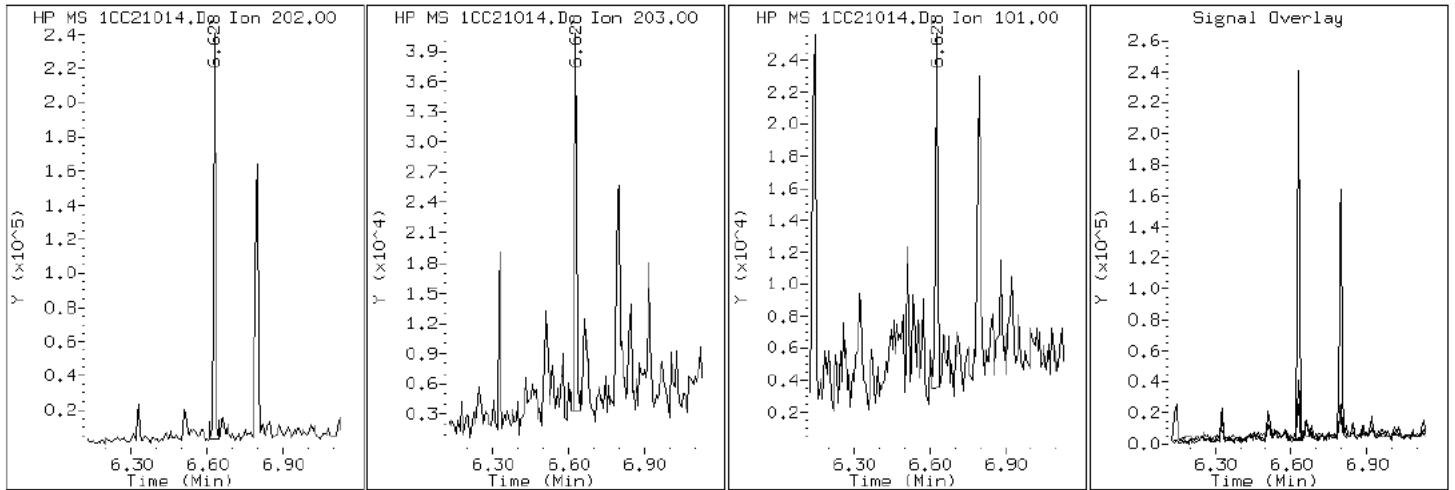
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

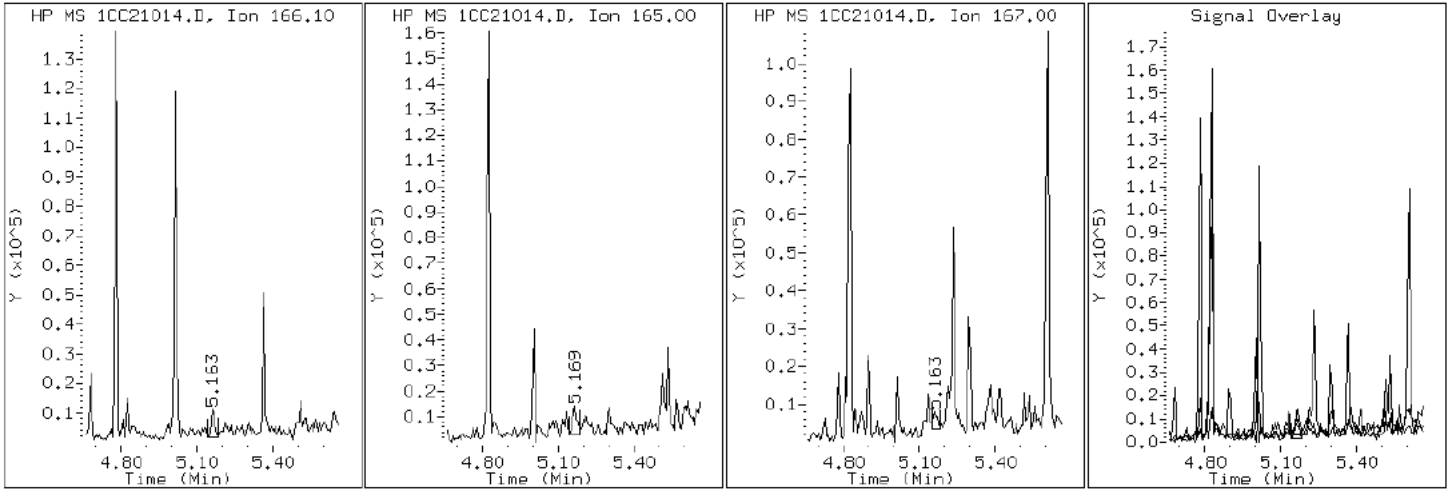
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

9 Fluorene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

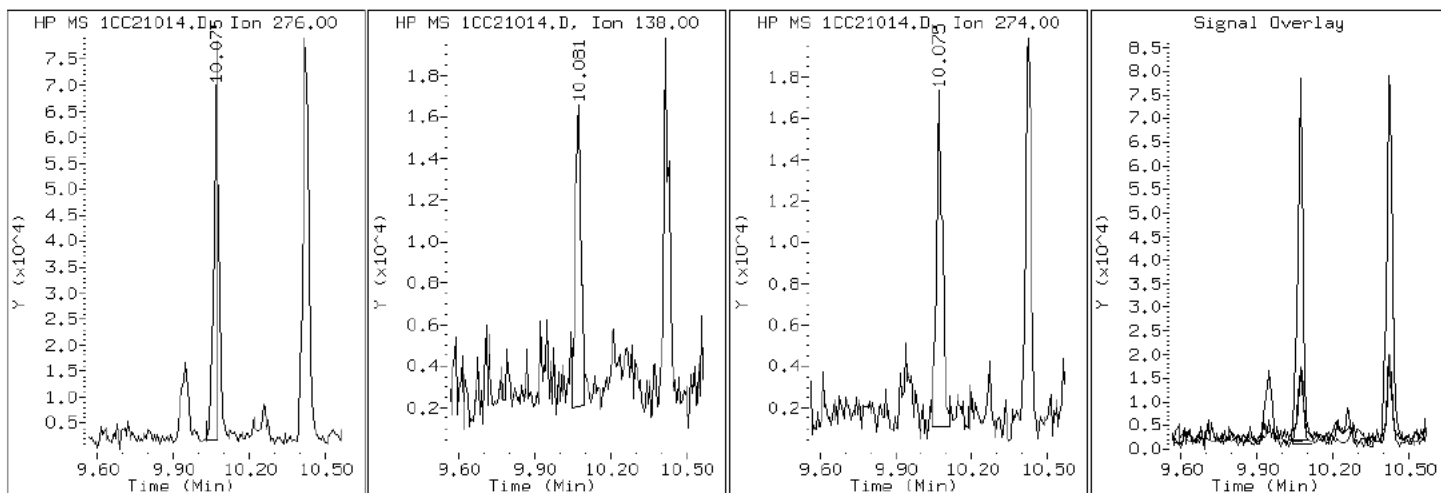
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

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



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

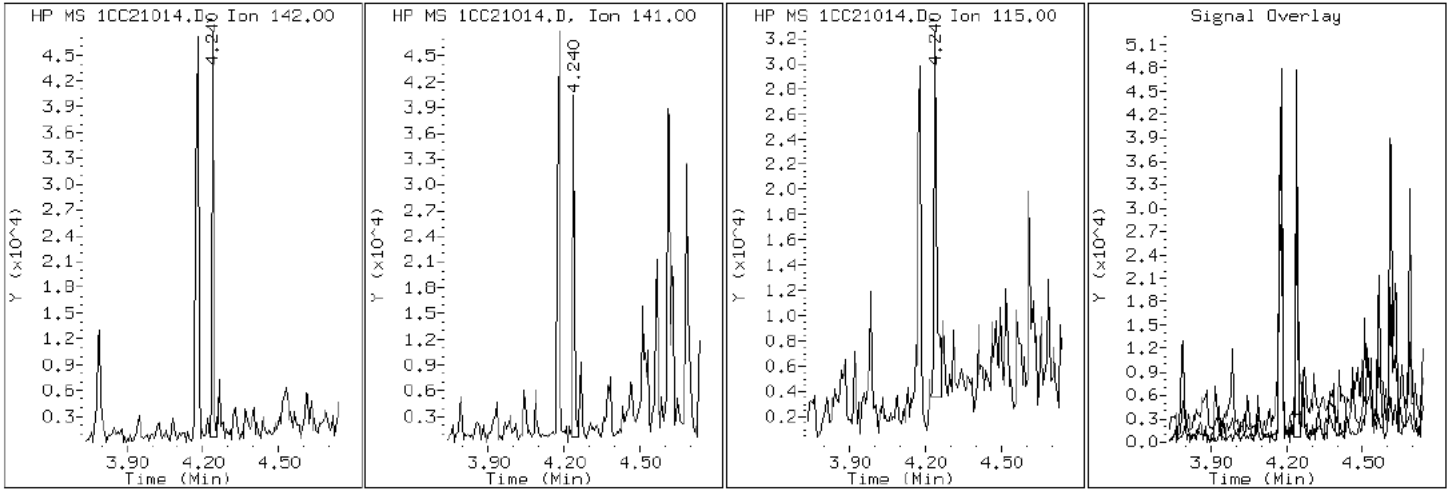
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

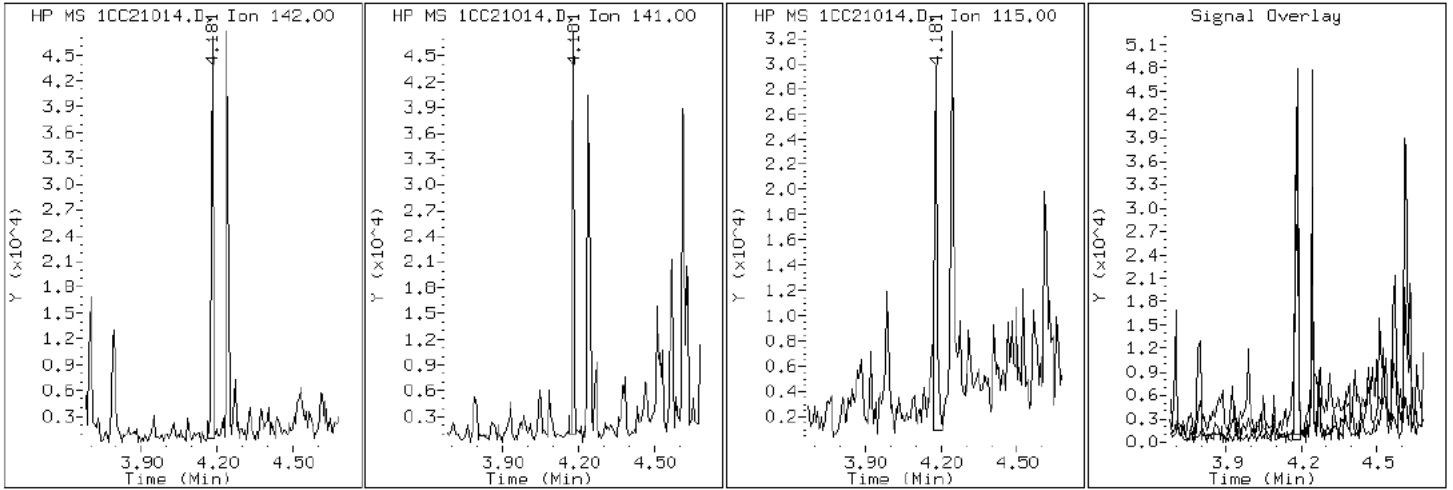
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

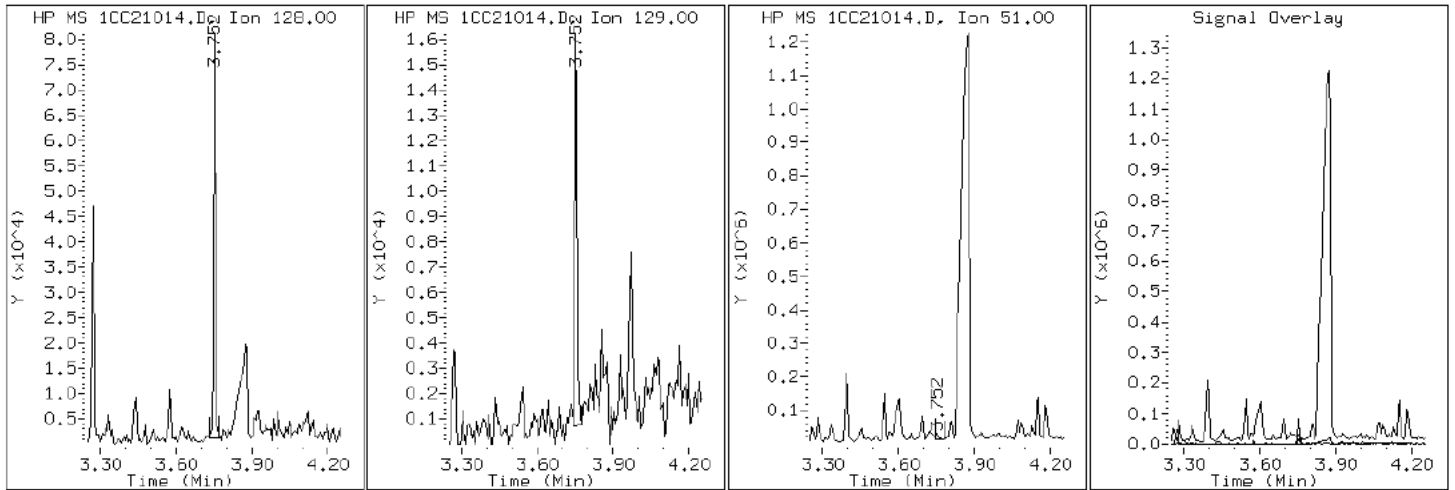
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

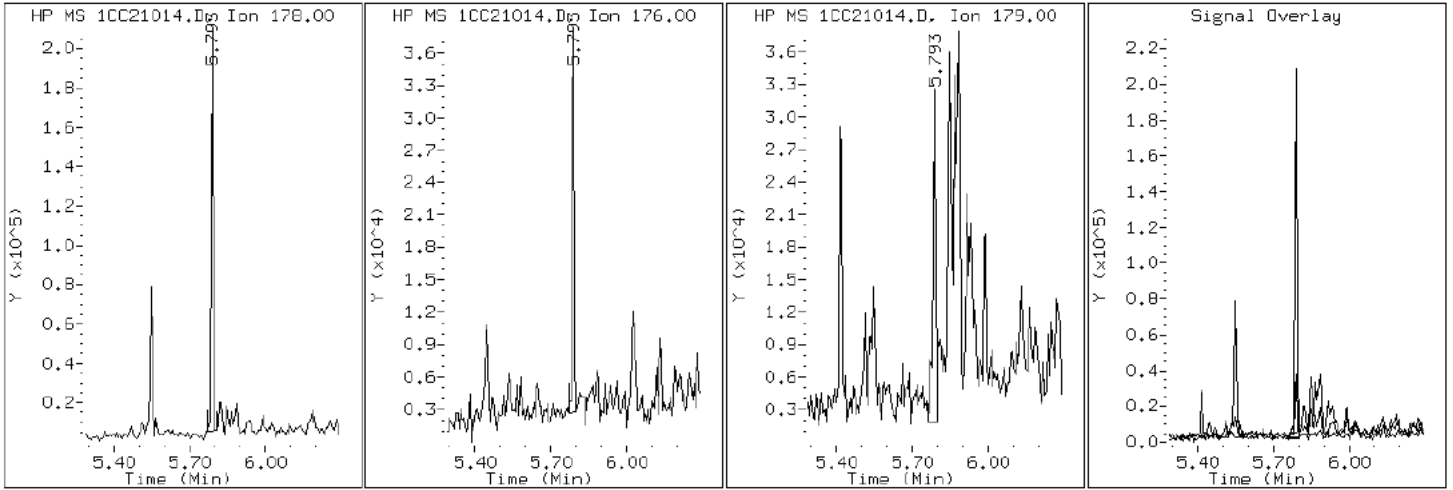
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21014.D

Date: 21-MAR-2013 14:55

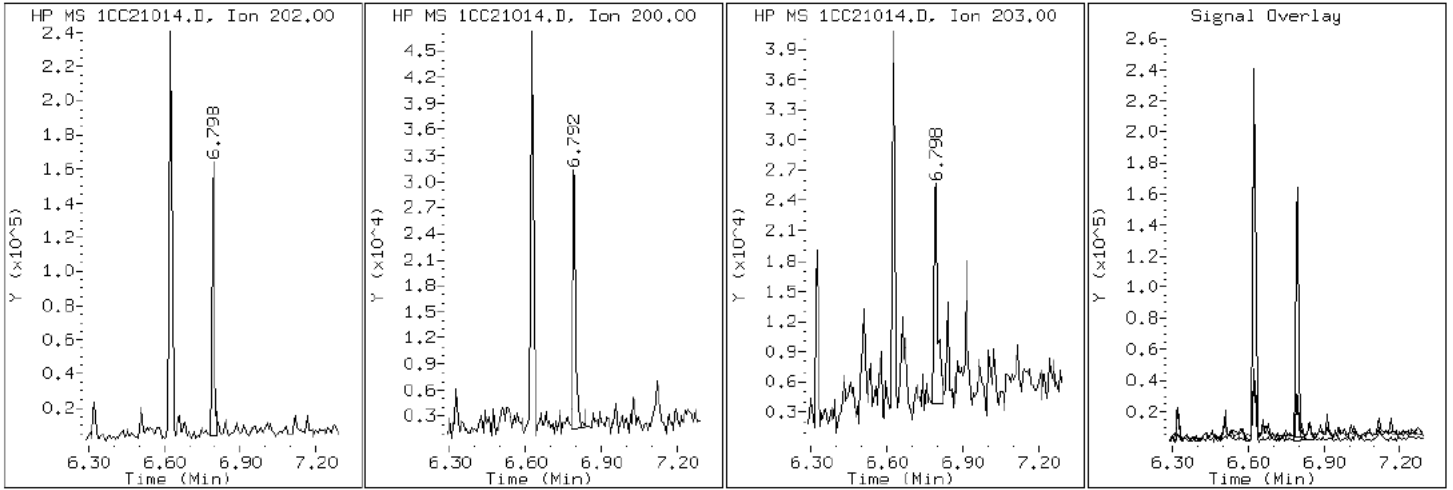
Client ID: CV0154B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-8-a

Operator: SCC

16 Pyrene

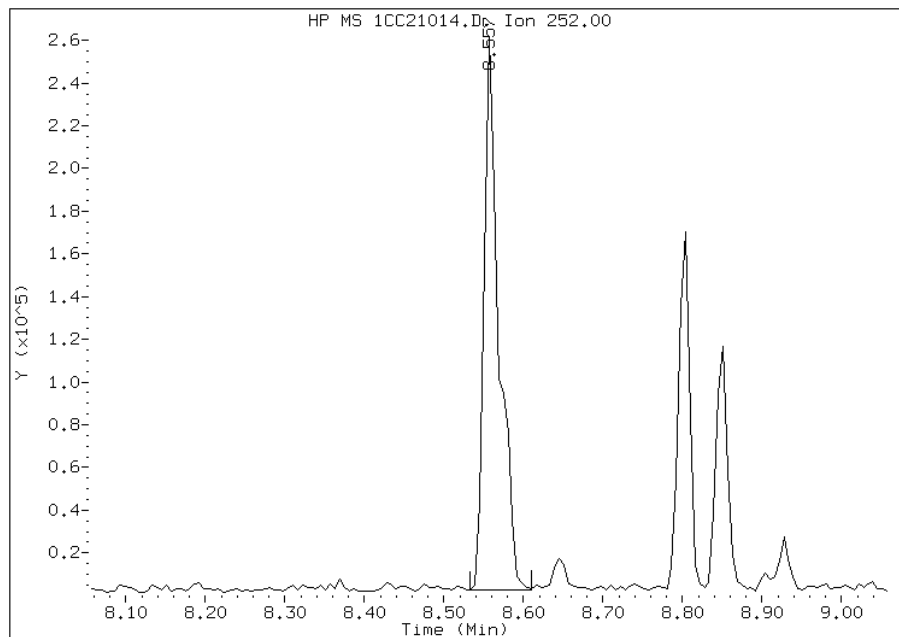


Manual Integration Report

Data File: 1CC21014.D
Inj. Date and Time: 21-MAR-2013 14:55
Instrument ID: BSMC5973.i
Client ID: CV0154B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

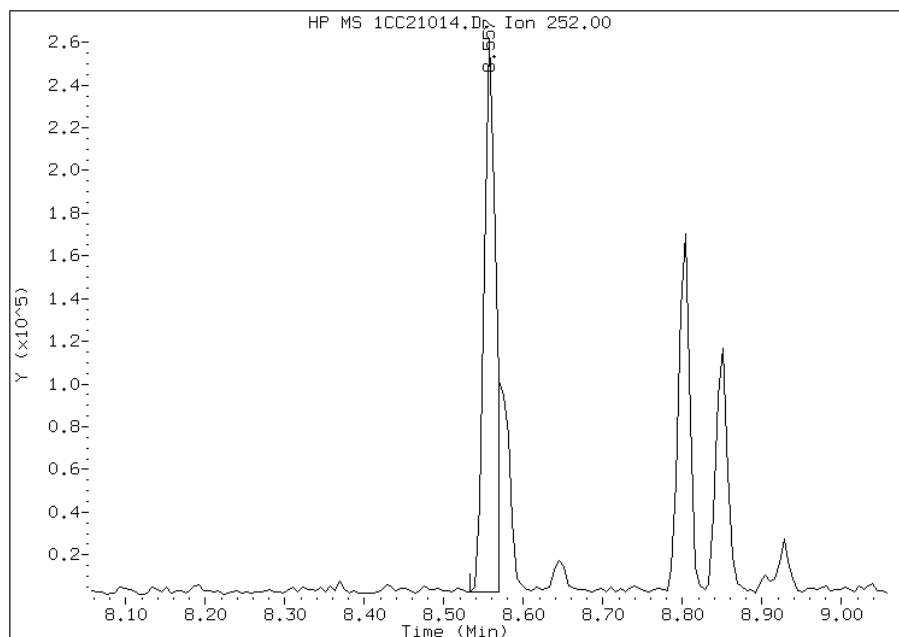
Processing Integration Results

RT: 8.56
Response: 335861
Amount: 9
Conc: 828



Manual Integration Results

RT: 8.56
Response: 261877
Amount: 7
Conc: 646



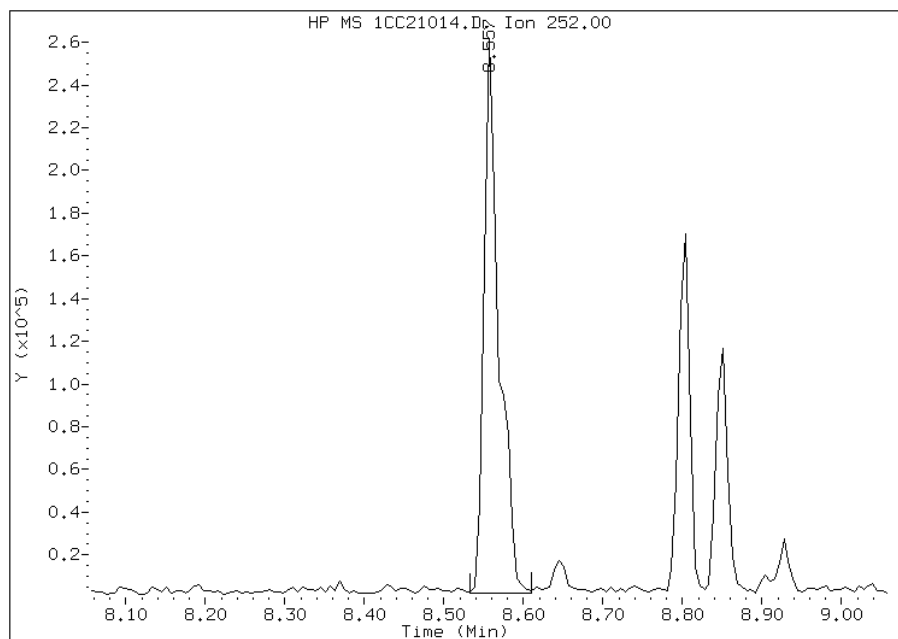
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21014.D
Inj. Date and Time: 21-MAR-2013 14:55
Instrument ID: BSMC5973.i
Client ID: CV0154B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

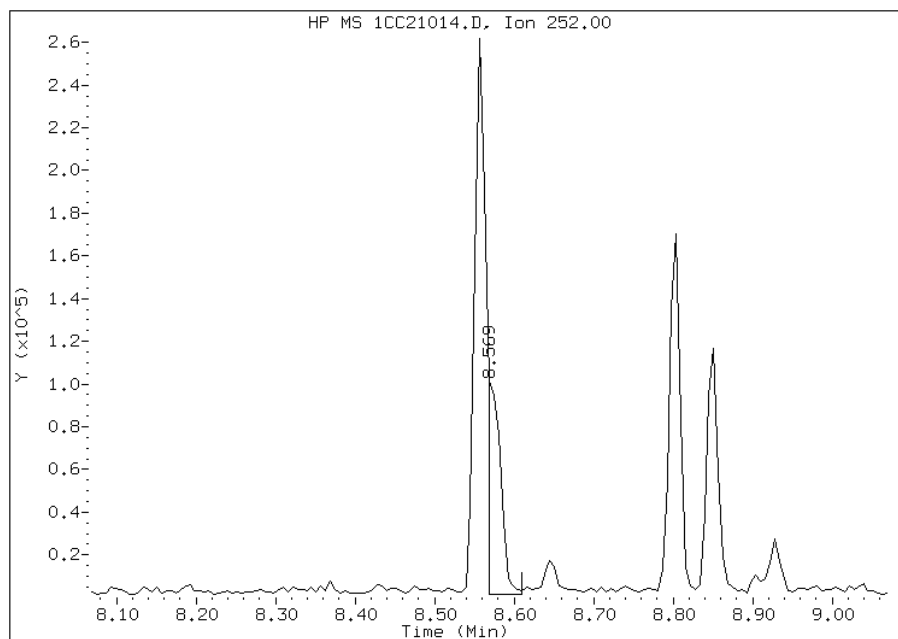
Processing Integration Results

RT: 8.56
Response: 339999
Amount: 9
Conc: 817



Manual Integration Results

RT: 8.57
Response: 111876
Amount: 3
Conc: 269



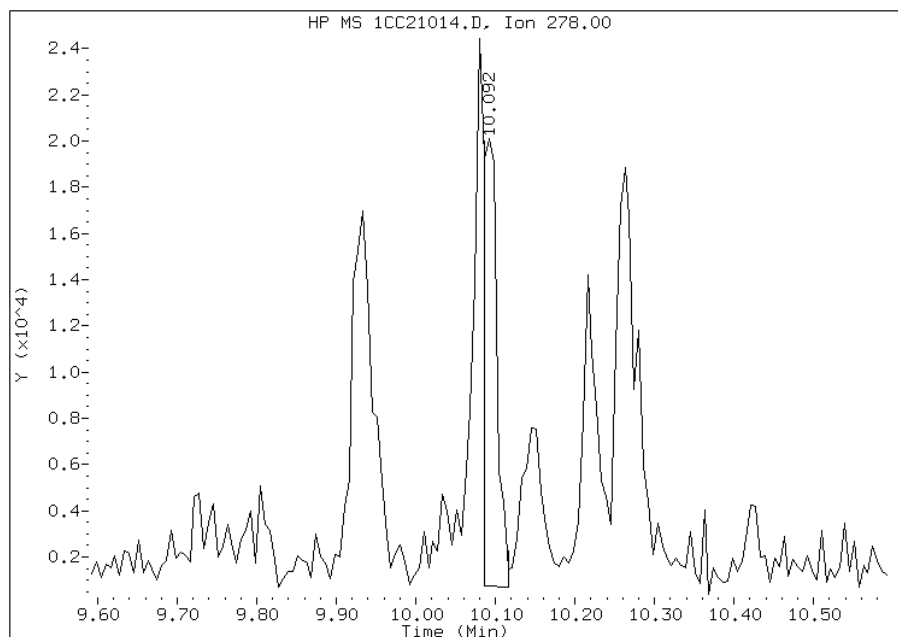
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21014.D
Inj. Date and Time: 21-MAR-2013 14:55
Instrument ID: BSMC5973.i
Client ID: CV0154B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

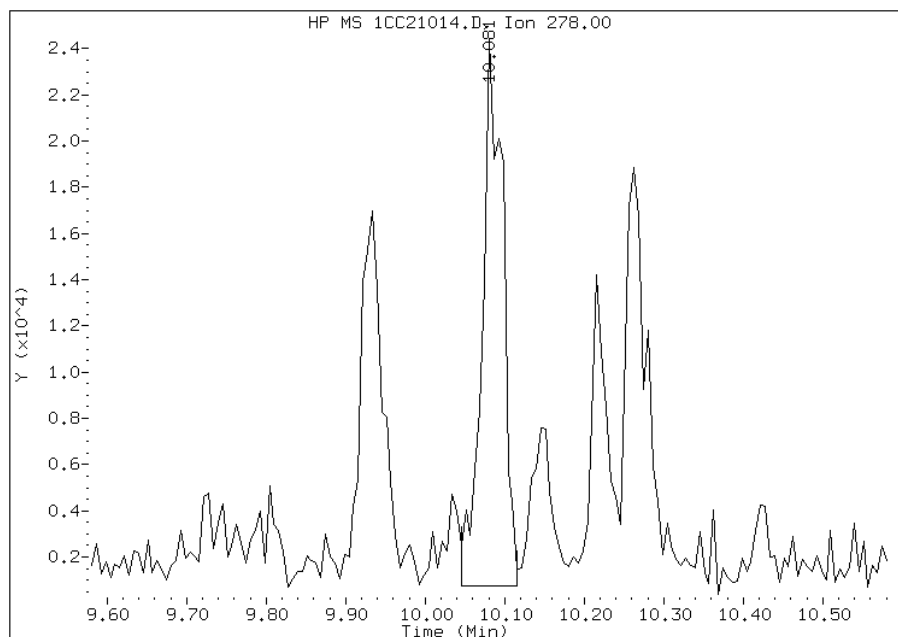
Processing Integration Results

RT: 10.09
Response: 23114
Amount: 1
Conc: 64



Manual Integration Results

RT: 10.08
Response: 43089
Amount: 1
Conc: 119



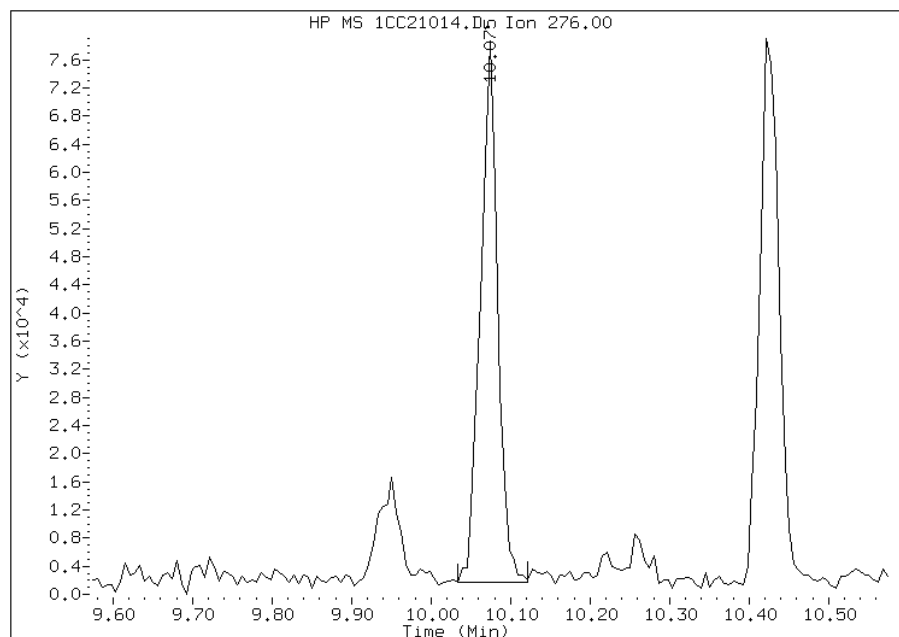
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21014.D
Inj. Date and Time: 21-MAR-2013 14:55
Instrument ID: BSMC5973.i
Client ID: CV0154B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

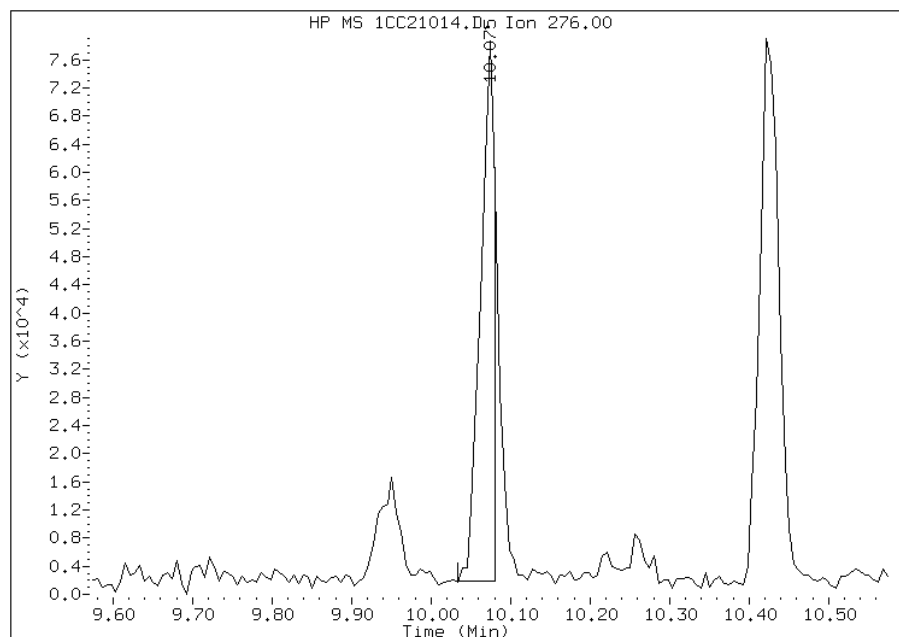
Processing Integration Results

RT: 10.07
Response: 115022
Amount: 3
Conc: 310



Manual Integration Results

RT: 10.07
Response: 96273
Amount: 3
Conc: 260



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV1241A-CS Lab Sample ID: 680-88348-9
 Matrix: Solid Lab File ID: 1CC21015.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:35
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.42(g) Date Analyzed: 03/21/2013 15:14
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	66	U	66	8.2
120-12-7	Anthracene	51		14	6.9
56-55-3	Benzo[a]anthracene	110		13	6.4
50-32-8	Benzo[a]pyrene	66		17	8.6
205-99-2	Benzo[b]fluoranthene	170		20	10
191-24-2	Benzo[g,h,i]perylene	85		33	7.2
207-08-9	Benzo[k]fluoranthene	38		13	5.9
218-01-9	Chrysene	170		15	7.4
53-70-3	Dibenz(a,h)anthracene	38		33	6.7
206-44-0	Fluoranthene	190		33	6.6
86-73-7	Fluorene	27	J	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	53		33	12
90-12-0	1-Methylnaphthalene	100		66	7.2
91-57-6	2-Methylnaphthalene	150		66	12
91-20-3	Naphthalene	170		66	7.2
85-01-8	Phenanthrene	260		13	6.4
129-00-0	Pyrene	190		33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21015.D
 Lab Smp Id: 680-88348-A-9-A Client Smp ID: CV1241A-CS
 Inj Date : 21-MAR-2013 15:14
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-9-a
 Misc Info : 680-88348-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.420	Weight Extracted
M	40.848	% 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		3.739	3.739	(1.000)	931502	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	780124	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1360200	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	102462	4.98921	546.9906	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1450679	40.0000		
* 23 Perylene-d12	264		8.903	8.898	(1.000)	1412022	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	37755	1.55687	170.6872	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	22504	1.39118	152.5218	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	13377	0.90799	99.5466	
9 Fluorene	166		5.168	5.162	(1.071)	6023	0.24361	26.7084(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	92195	2.34408	256.9924	
12 Anthracene	178		5.827	5.821	(1.009)	17811	0.46304	50.7650	
13 Carbazole	167		5.939	5.933	(1.029)	40816	1.19369	130.8698	
15 Fluoranthene	202		6.627	6.627	(1.148)	74389	1.72708	189.3475	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----	----	-----	-----	-----	-----	-----	
16 Pyrene	202	6.798	6.792	(0.881)	66938	1.71702	188.2451	
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	43674	1.04310	114.3599	
19 Chrysene	228	7.733	7.733	(1.002)	66789	1.59398	174.7550	
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	56318	1.52618	167.3217	
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.963)	12995	0.34328	37.6356(QMH)	
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	21667	0.60449	66.2732	
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.131)	16240	0.48164	52.8039(M)	
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.133)	11527	0.34950	38.3173	
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.171)	27287	0.77361	84.8144	

QC Flag Legend

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

Data File: 1CC21015.D

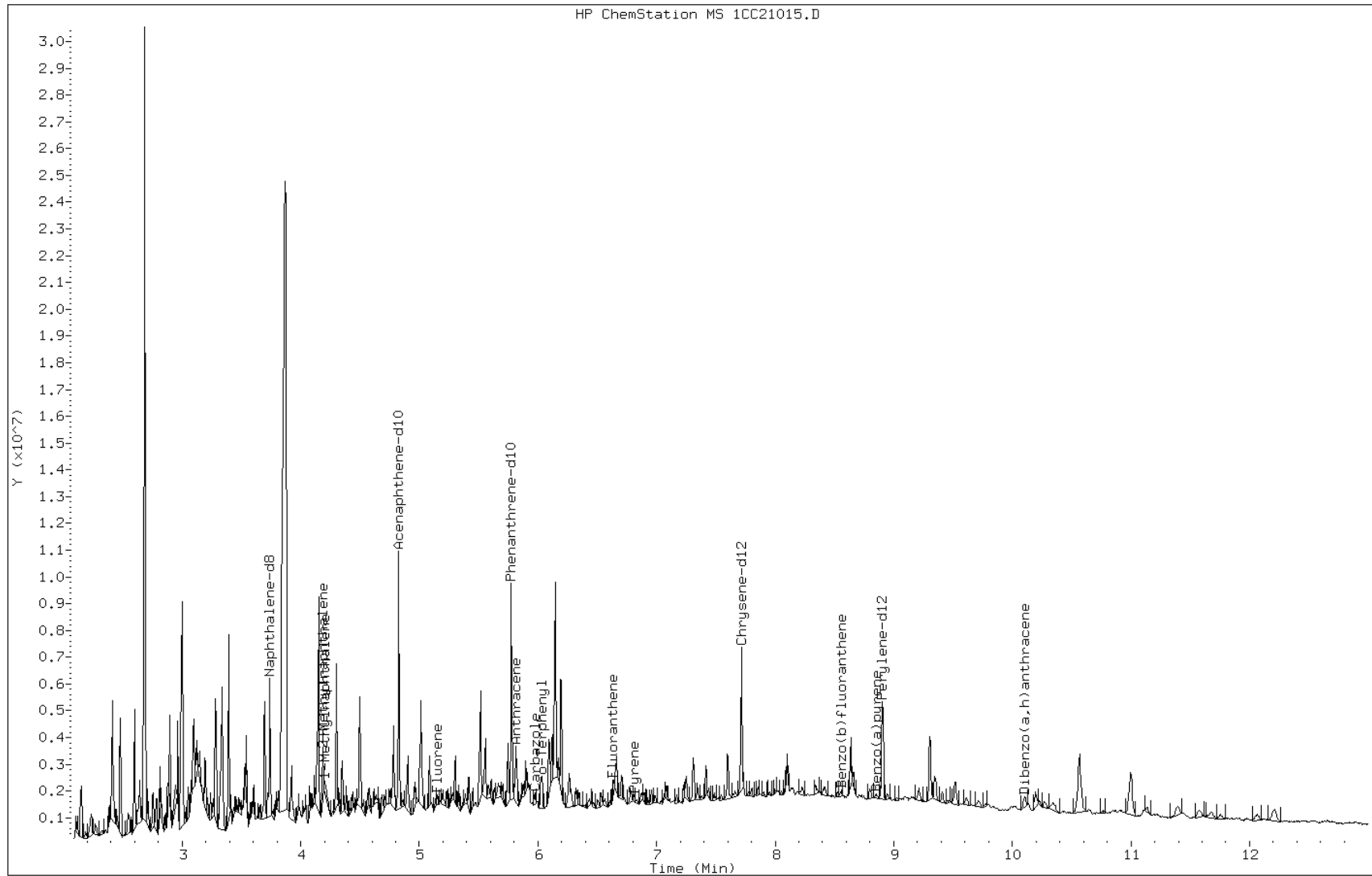
Date: 21-MAR-2013 15:14

Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

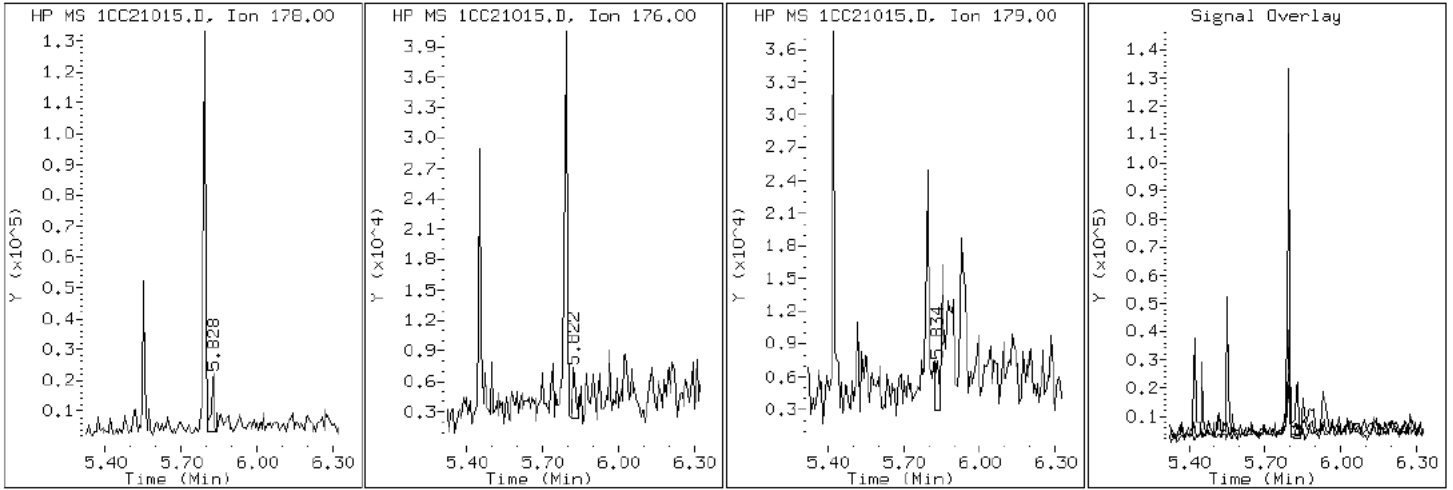
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

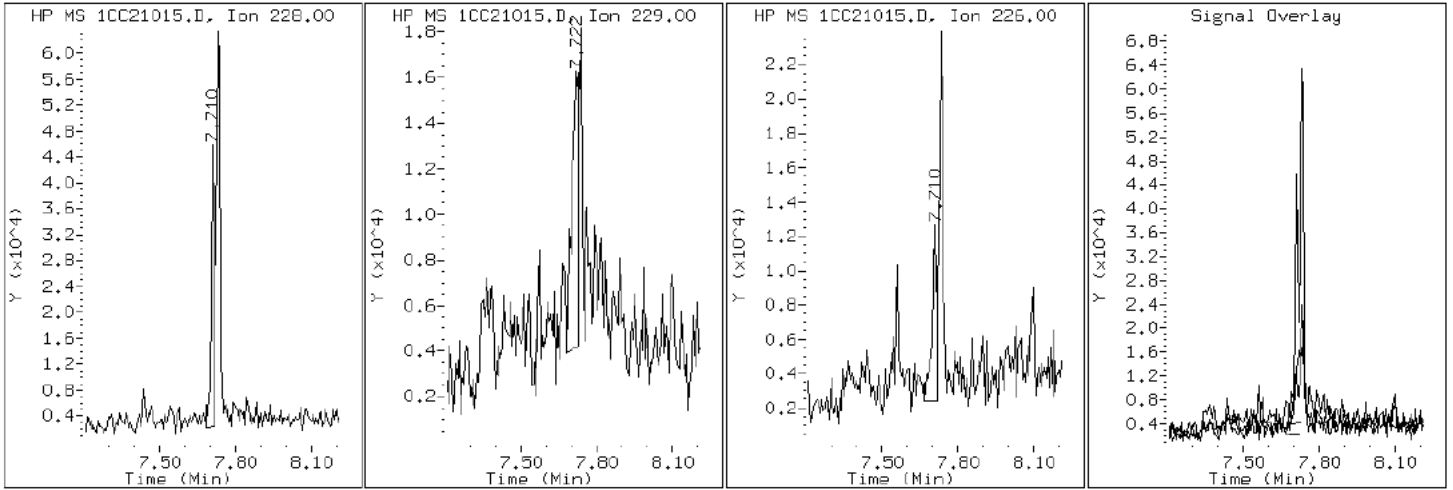
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

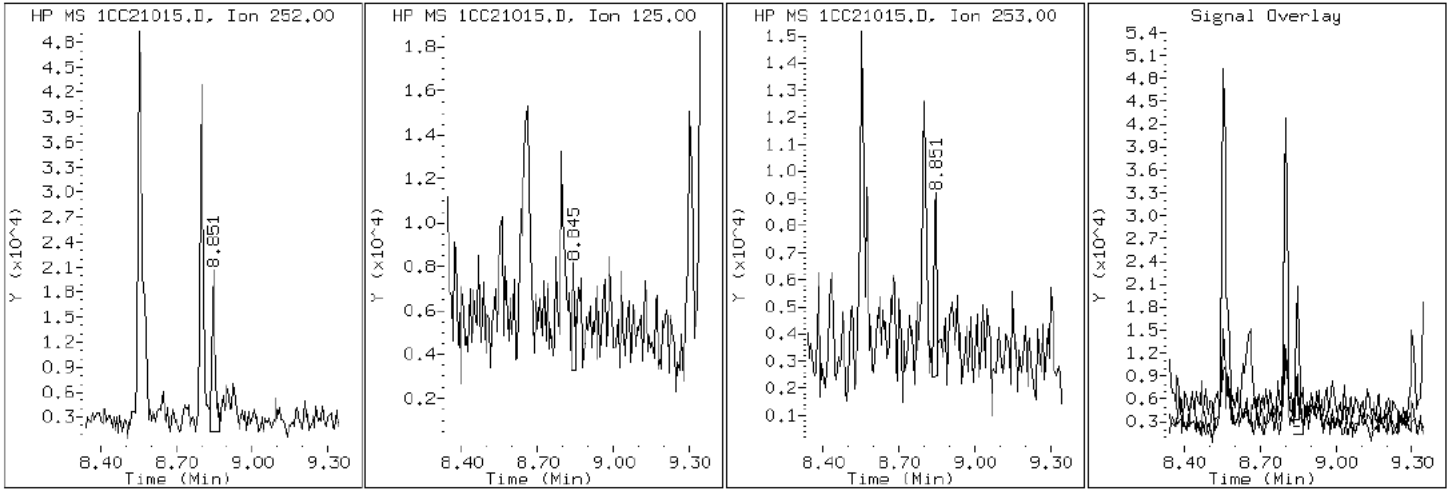
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

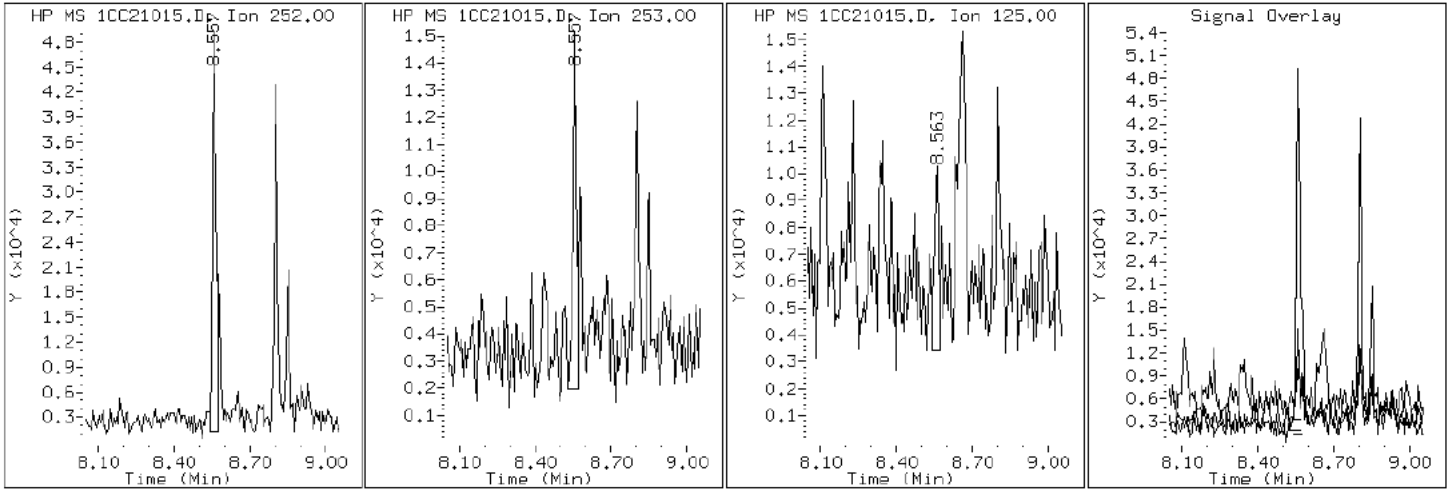
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

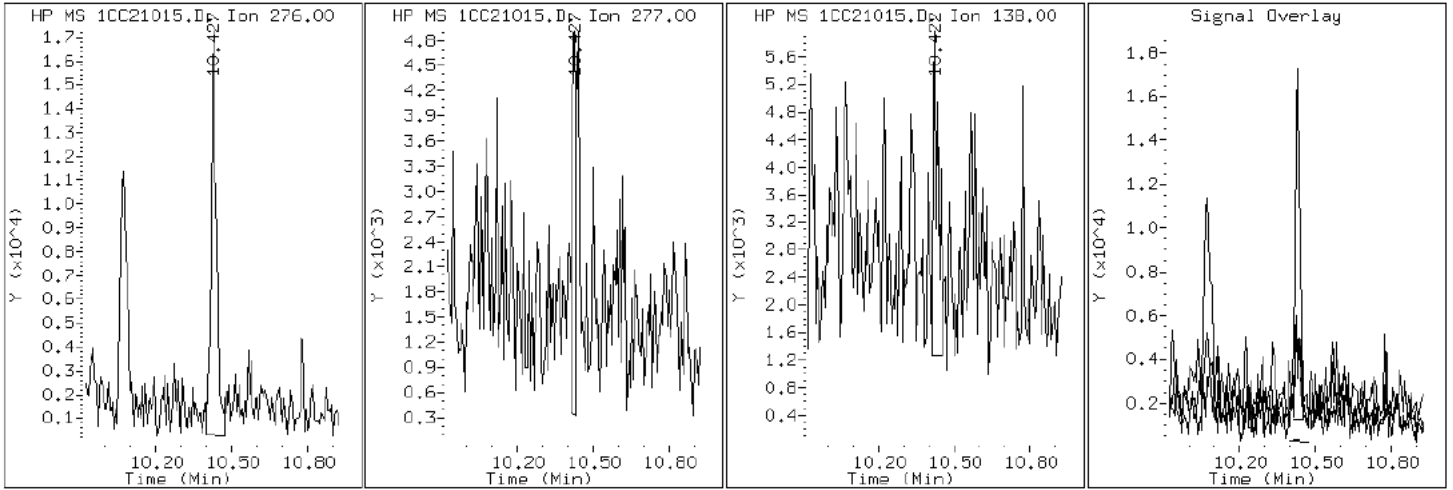
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

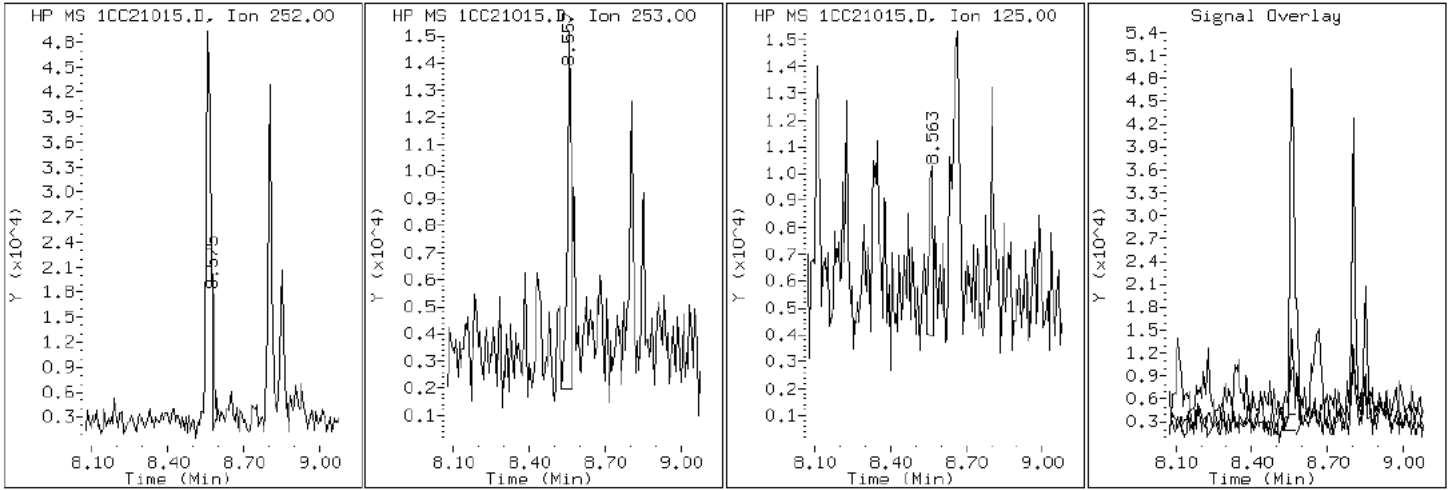
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

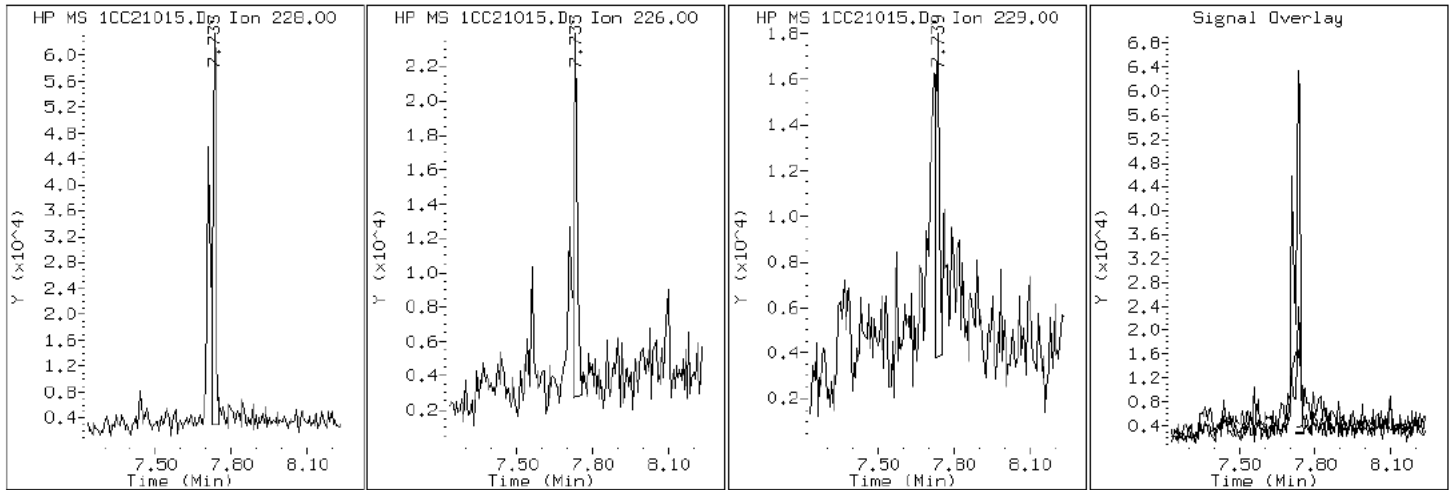
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

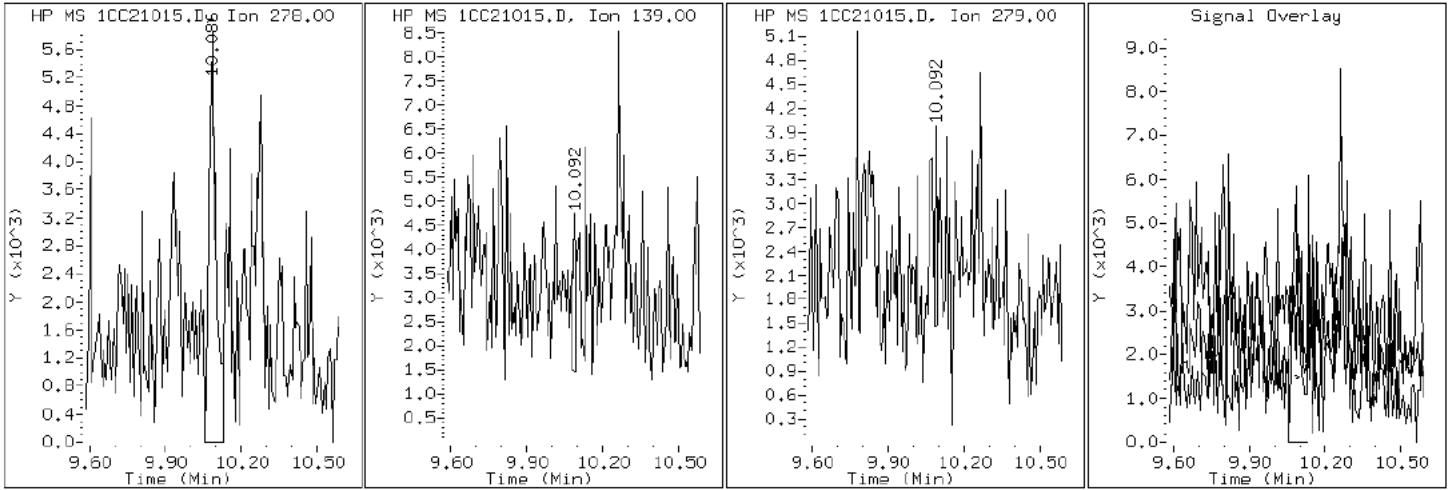
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

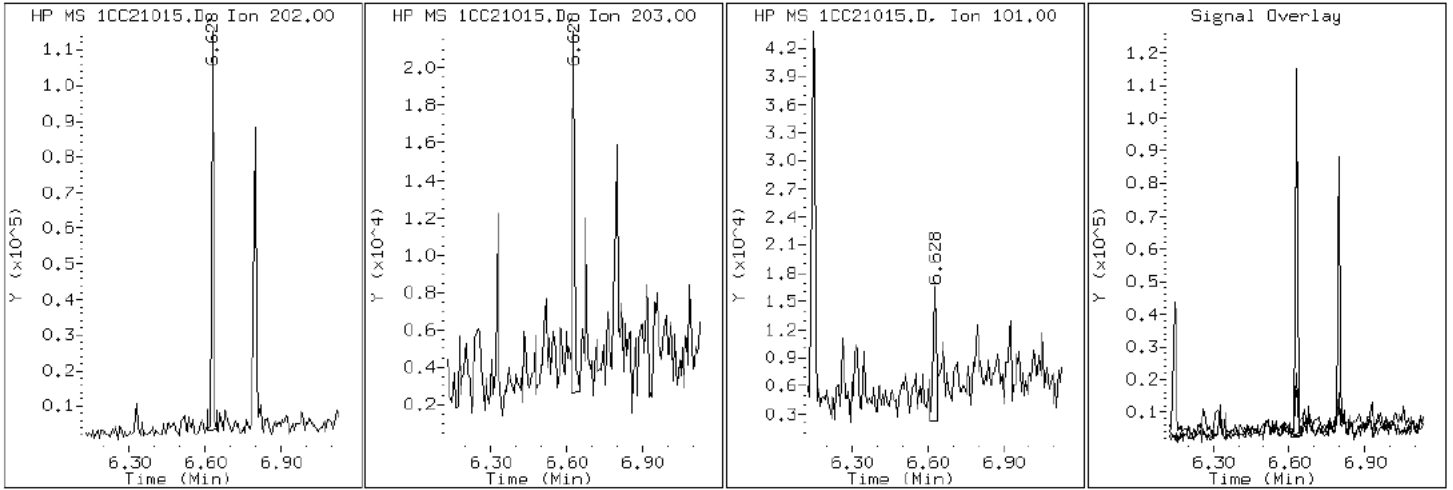
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

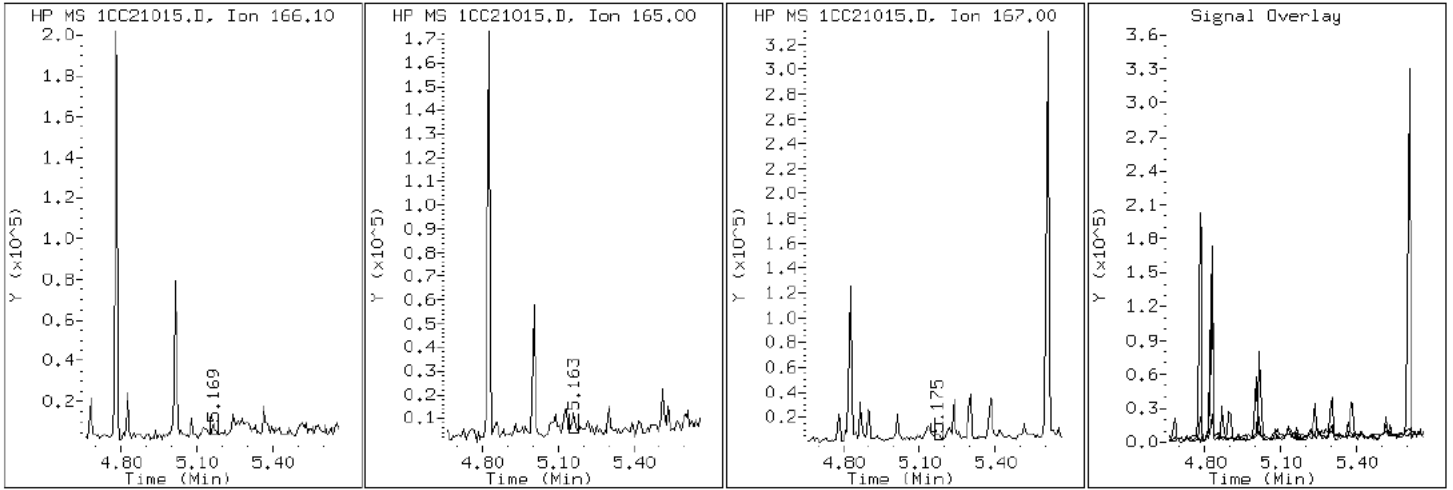
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

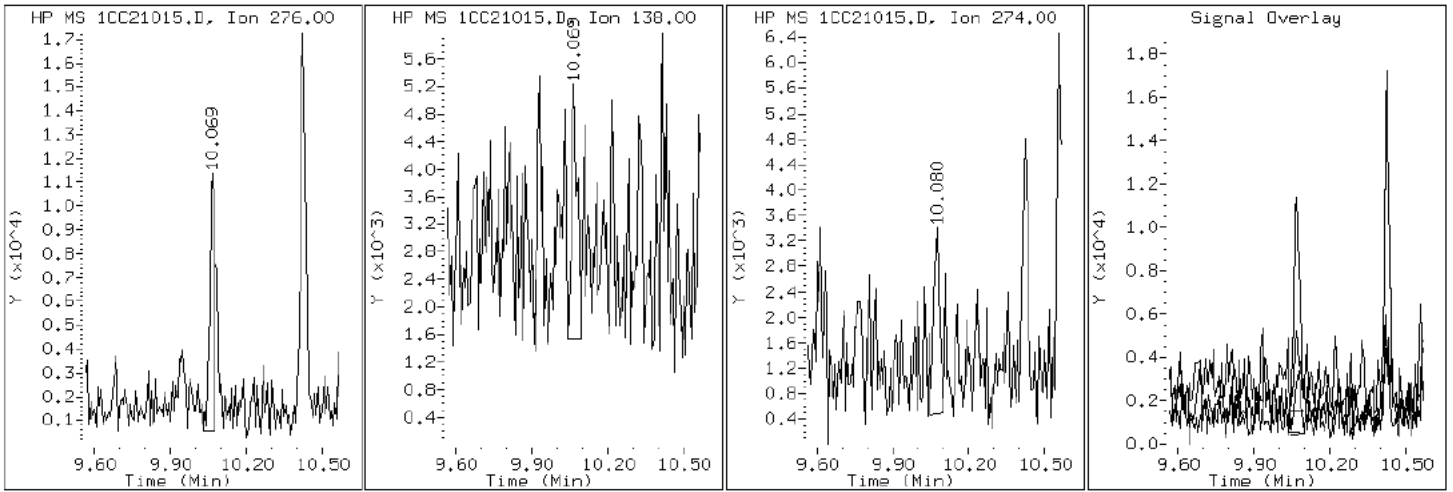
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

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



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

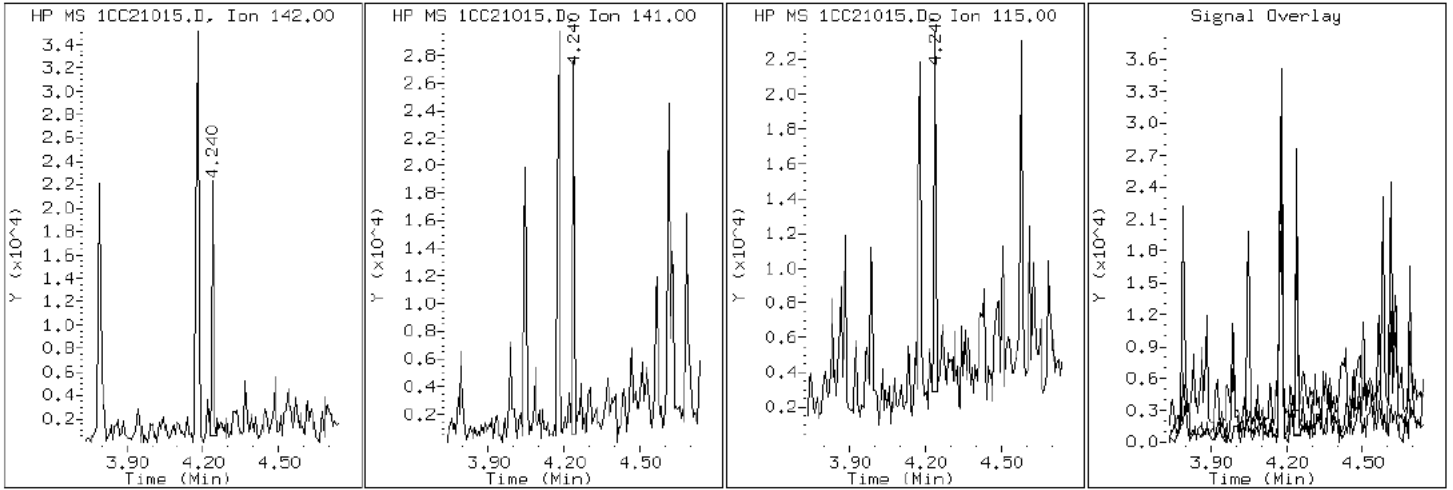
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

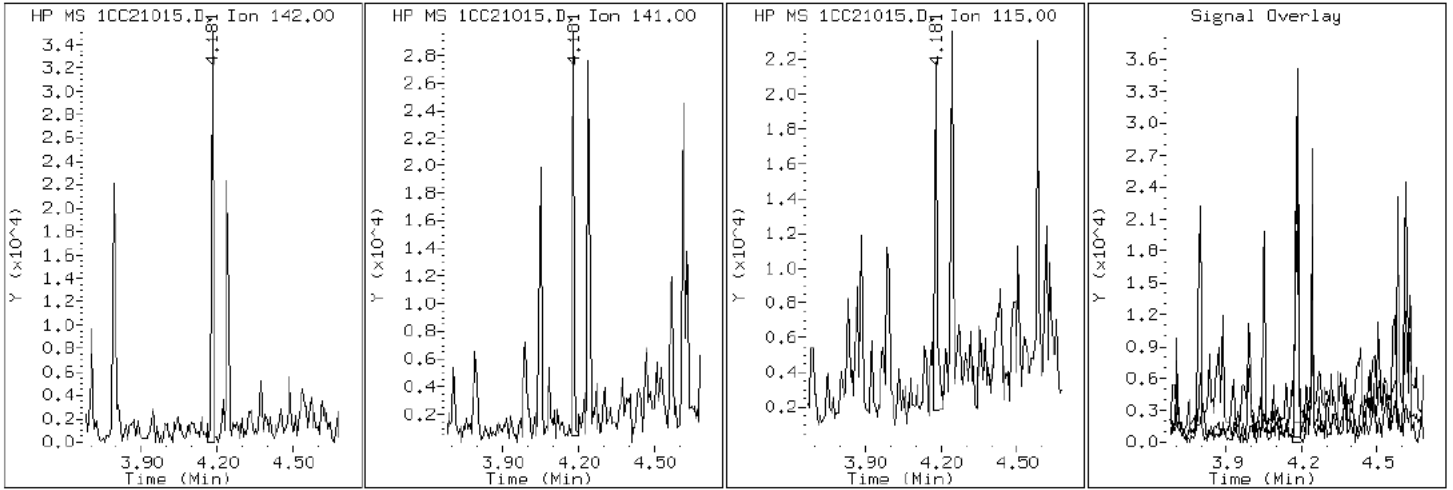
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

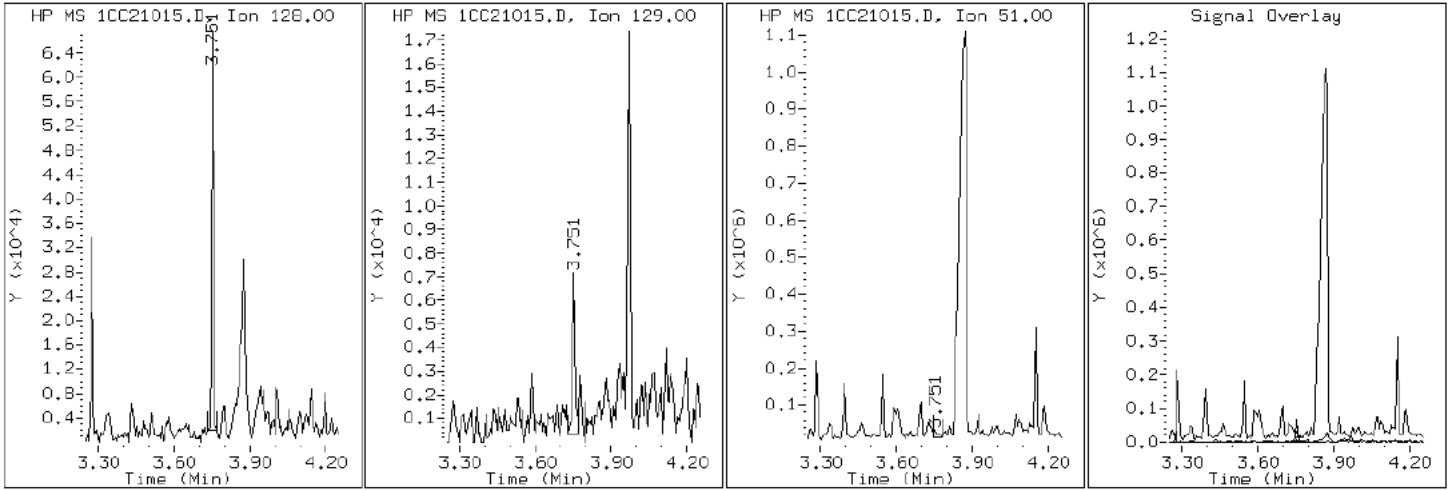
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

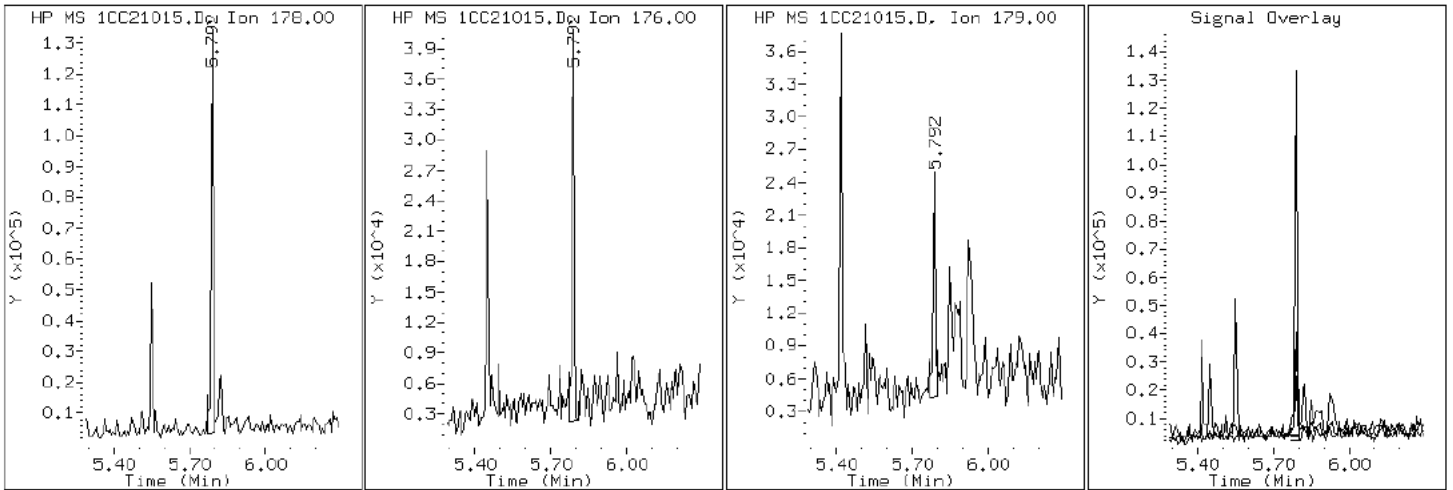
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21015.D

Date: 21-MAR-2013 15:14

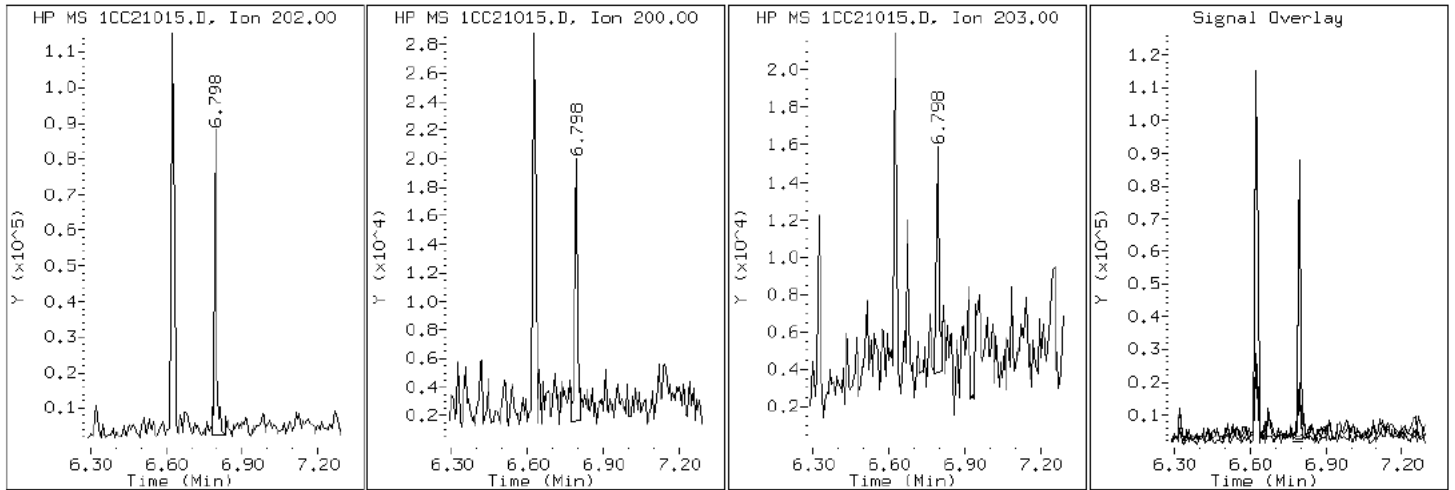
Client ID: CV1241A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-9-a

Operator: SCC

16 Pyrene

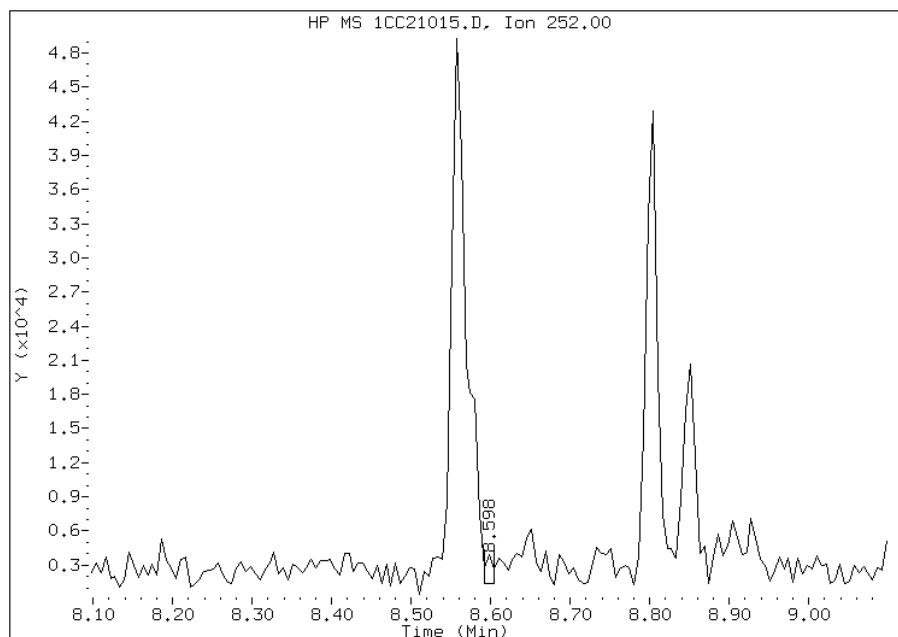


Manual Integration Report

Data File: 1CC21015.D
Inj. Date and Time: 21-MAR-2013 15:14
Instrument ID: BSMC5973.i
Client ID: CV1241A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

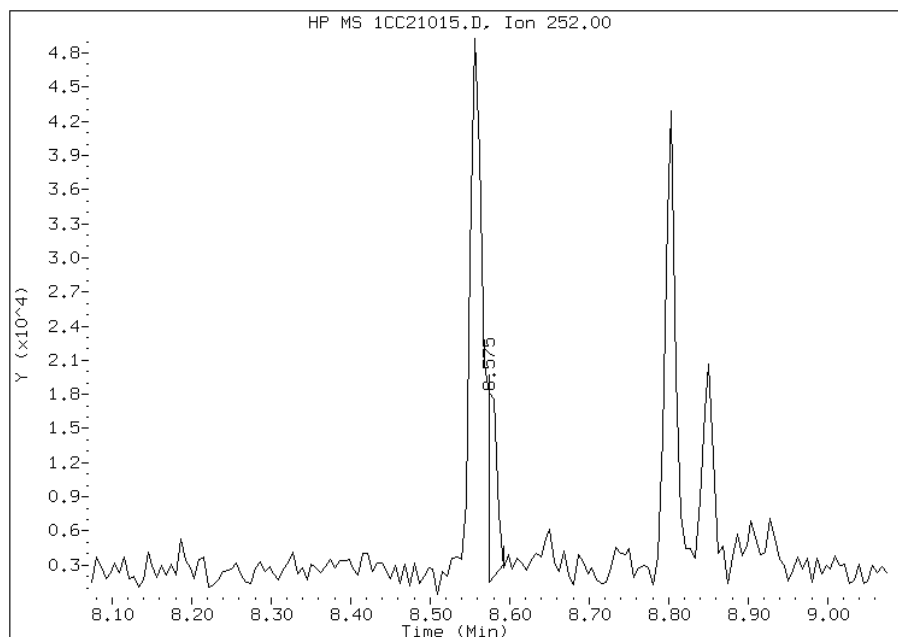
Processing Integration Results

RT: 8.60
Response: 1837
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.57
Response: 12995
Amount: 0
Conc: 38



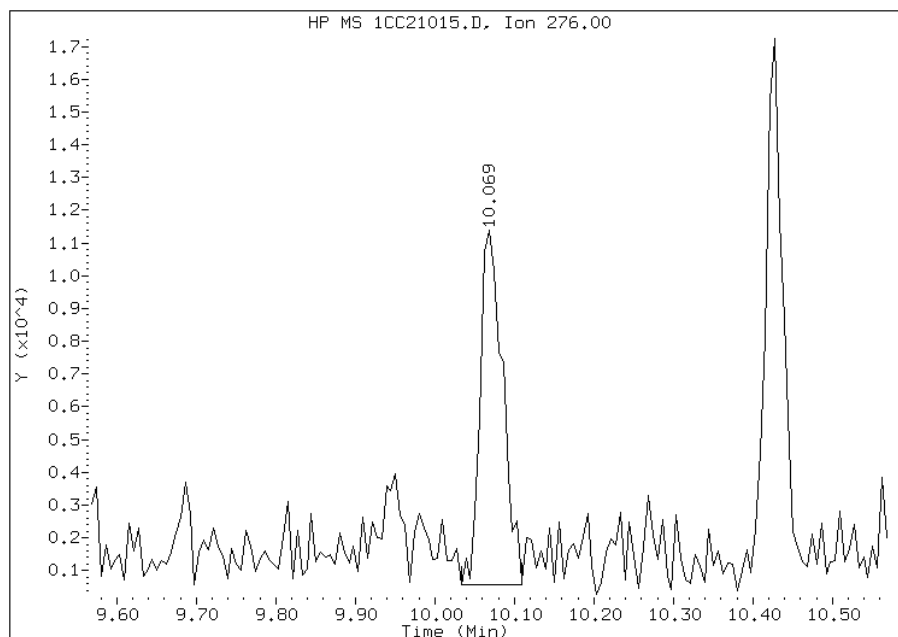
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:14
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC21015.D
Inj. Date and Time: 21-MAR-2013 15:14
Instrument ID: BSMC5973.i
Client ID: CV1241A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

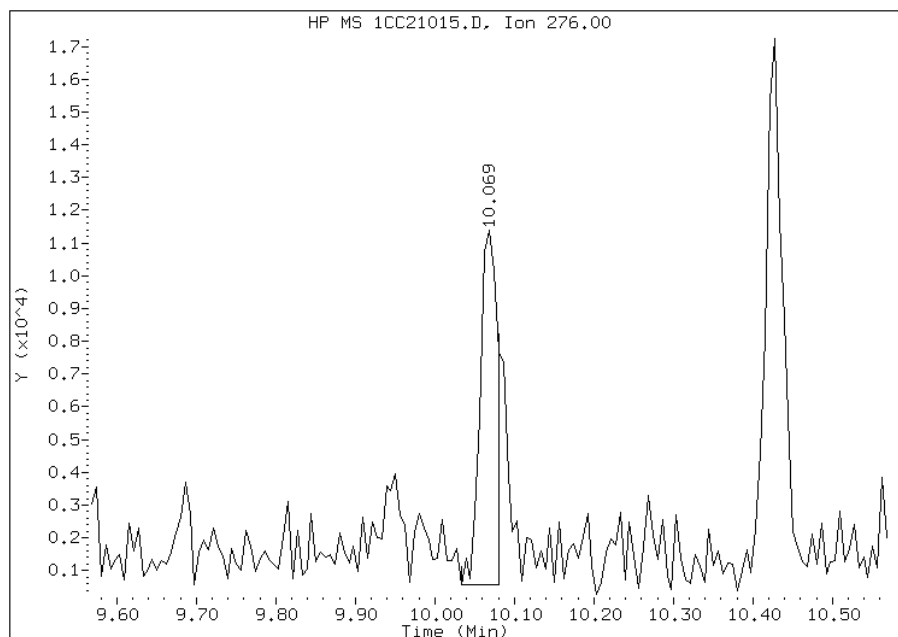
Processing Integration Results

RT: 10.07
Response: 21134
Amount: 1
Conc: 69



Manual Integration Results

RT: 10.07
Response: 16240
Amount: 0
Conc: 53



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV1241A-CSD Lab Sample ID: 680-88348-10
 Matrix: Solid Lab File ID: 1CC21016.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:35
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.41(g) Date Analyzed: 03/21/2013 15:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 37.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	21	J	62	7.8
120-12-7	Anthracene	27		13	6.5
56-55-3	Benzo[a]anthracene	99		12	6.1
50-32-8	Benzo[a]pyrene	59		16	8.1
205-99-2	Benzo[b]fluoranthene	180		19	9.5
191-24-2	Benzo[g,h,i]perylene	75		31	6.9
207-08-9	Benzo[k]fluoranthene	41		12	5.6
218-01-9	Chrysene	190		14	7.0
53-70-3	Dibenz(a,h)anthracene	26	J	31	6.4
206-44-0	Fluoranthene	160		31	6.2
86-73-7	Fluorene	31		31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	44		31	11
90-12-0	1-Methylnaphthalene	110		62	6.9
91-57-6	2-Methylnaphthalene	120		62	11
91-20-3	Naphthalene	210		62	6.9
85-01-8	Phenanthrene	200		12	6.1
129-00-0	Pyrene	160		31	5.8

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21016.D
 Lab Smp Id: 680-88348-A-10-A Client Smp ID: CV1241A-CSD
 Inj Date : 21-MAR-2013 15:32
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-10-a
 Misc Info : 680-88348-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	37.577	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	987560	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	817538	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1479296	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	121723	5.44991	566.5553
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1531568	40.0000	
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1408254	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	51098	1.98748	206.6121(Q)
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	19141	1.11612	116.0278
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	16927	1.08373	112.6609(Q)
5 Acenaphthylene	152		4.739	4.739	(0.982)	6714	0.20370	21.1757(Q)
9 Fluorene	166		5.174	5.162	(1.072)	7741	0.29877	31.0594(Q)
11 Phenanthrene	178		5.792	5.792	(1.003)	84163	1.96759	204.5440
12 Anthracene	178		5.827	5.821	(1.009)	10882	0.26013	27.0419
15 Fluoranthene	202		6.627	6.627	(1.148)	71816	1.53311	159.3767

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.798	6.792 (0.880)		62107	1.50896	156.8670
17 Benzo(a)anthracene	228	7.710	7.709 (0.998)		42156	0.95367	99.1403
19 Chrysene	228	7.739	7.733 (1.002)		82964	1.87543	194.9640
20 Benzo(b)fluoranthene	252	8.557	8.551 (0.960)		62933	1.71000	177.7661(M)
21 Benzo(k)fluoranthene	252	8.574	8.574 (0.962)		14870	0.39386	40.9449(QM)
22 Benzo(a)pyrene	252	8.851	8.845 (0.993)		20172	0.56429	58.6615
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068 (1.131)		14124	0.42000	43.6619(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.086 (1.132)		8152	0.24783	25.7637
26 Benzo(g,h,i)perylene	276	10.427	10.421 (1.170)		25265	0.71820	74.6618

QC Flag Legend

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

Data File: 1CC21016.D

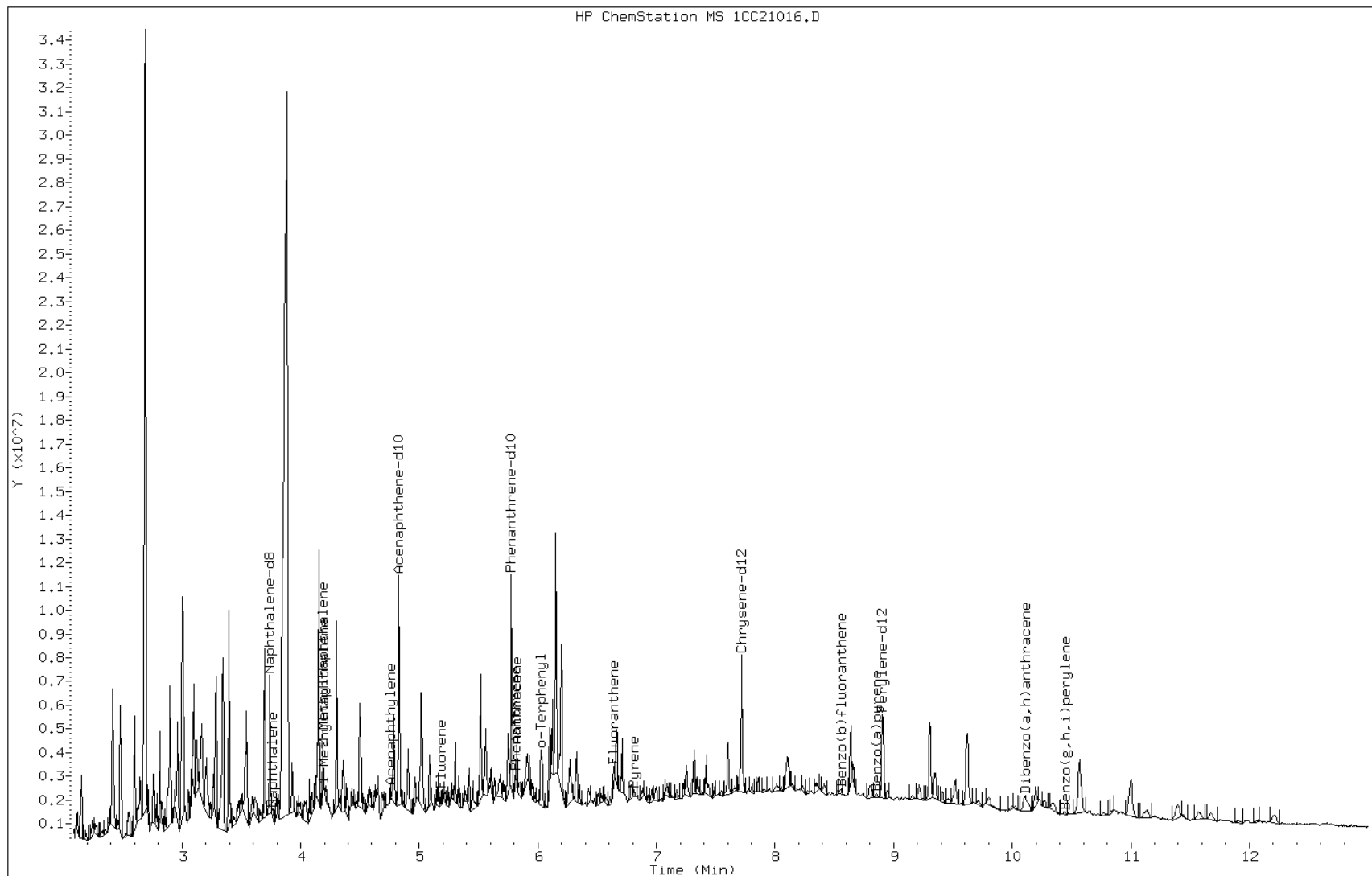
Date: 21-MAR-2013 15:32

Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

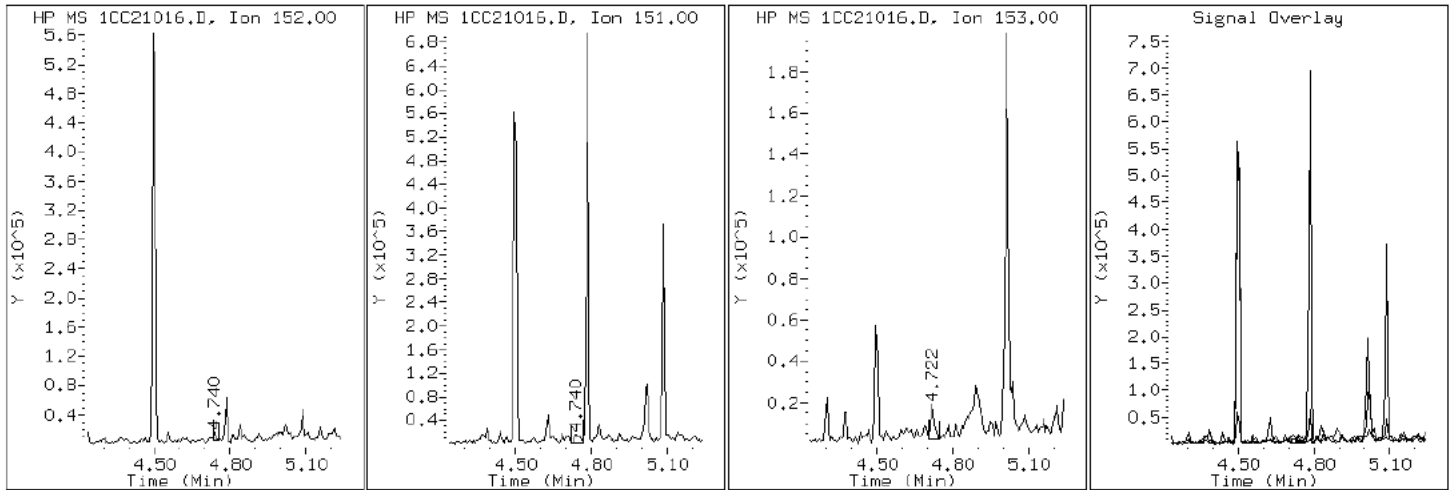
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

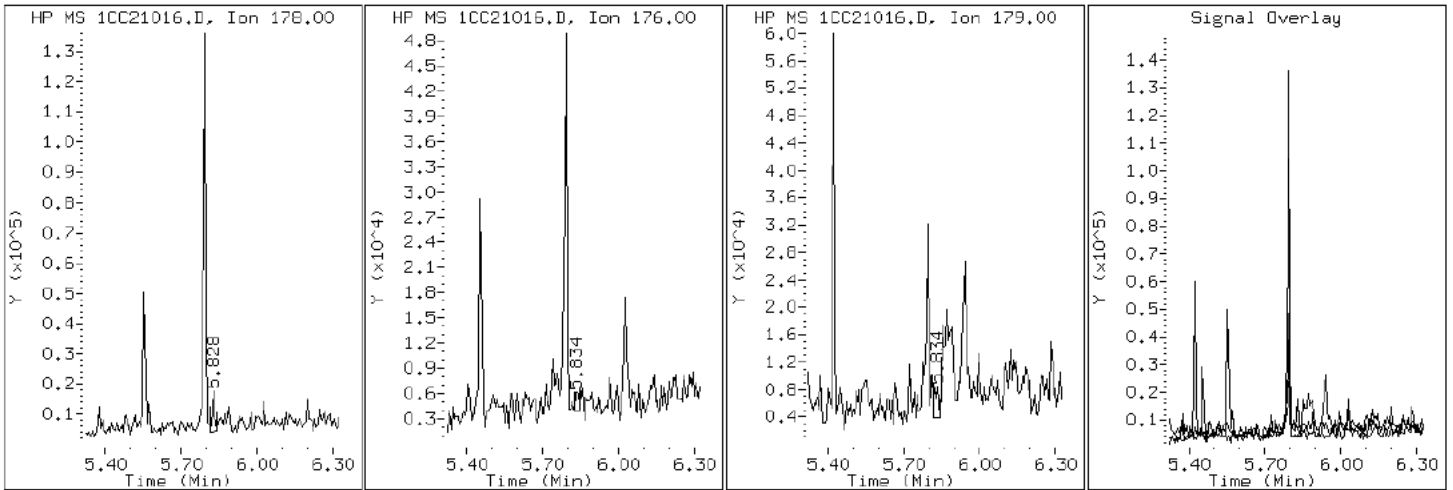
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

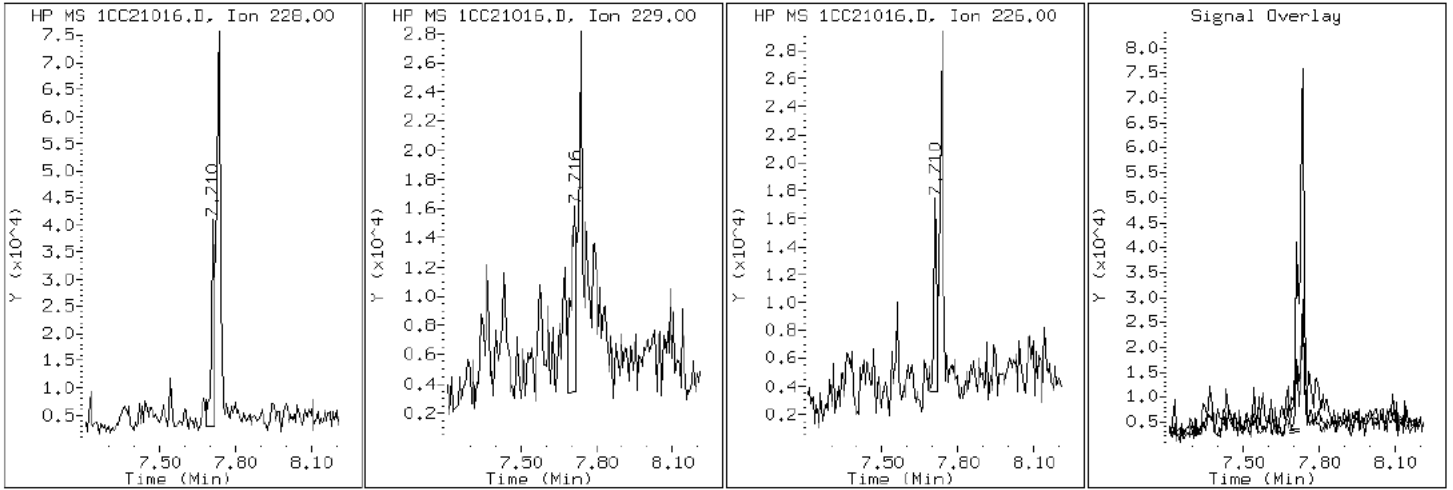
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

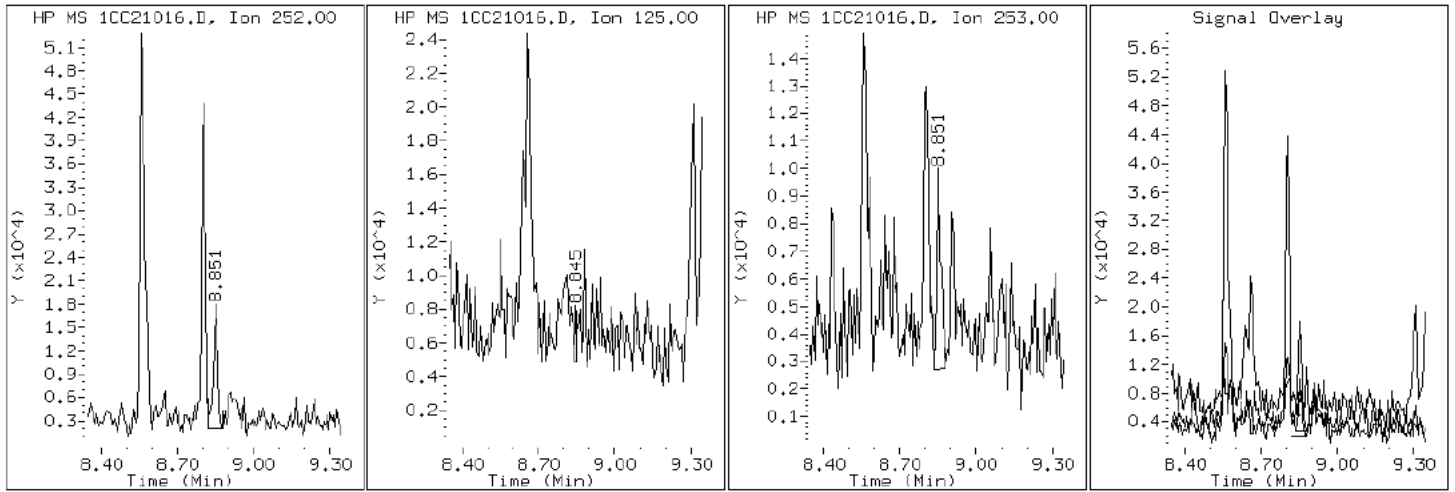
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

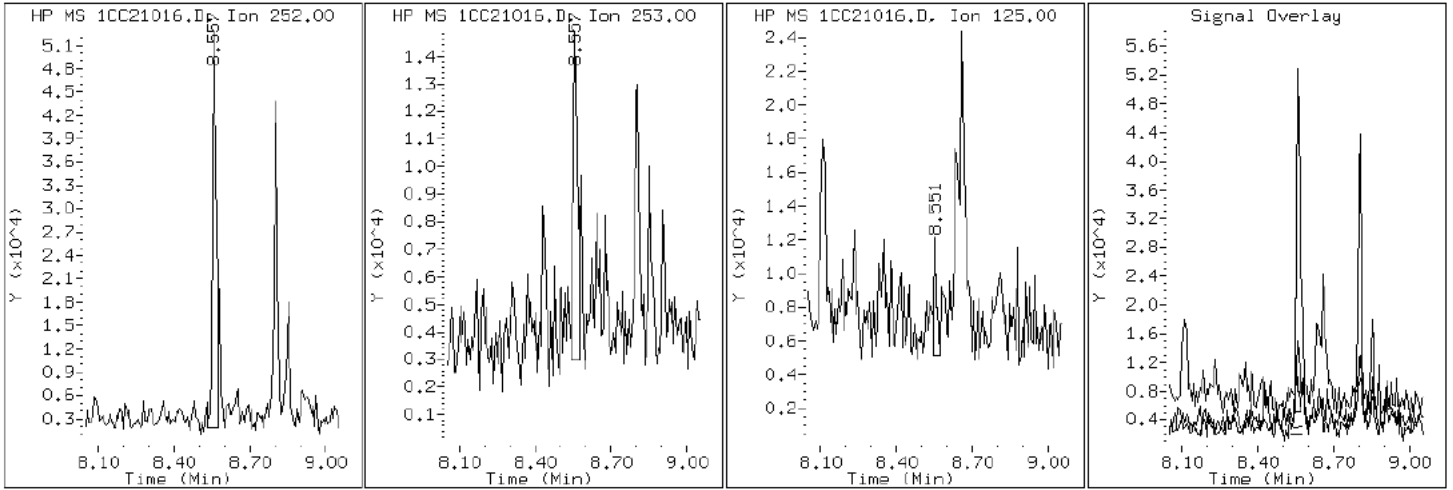
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

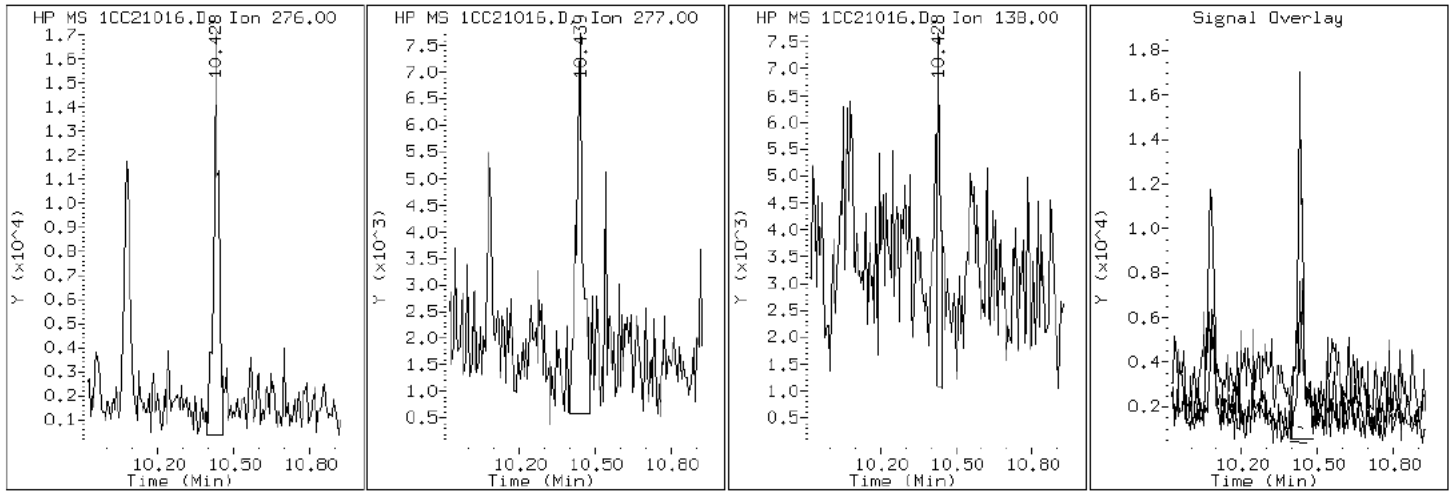
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

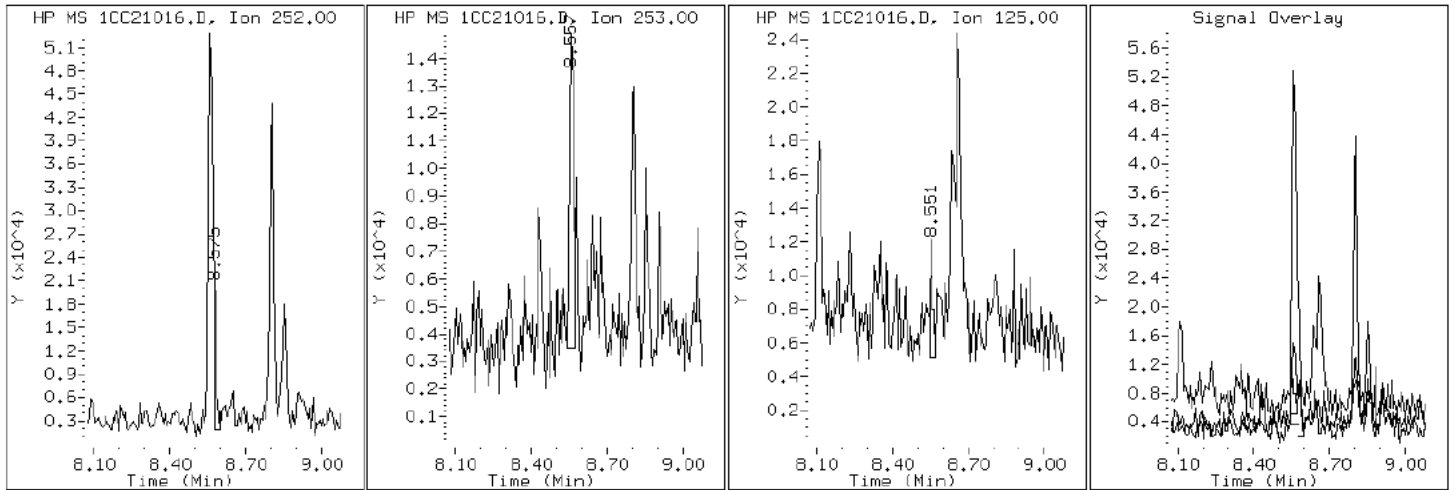
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

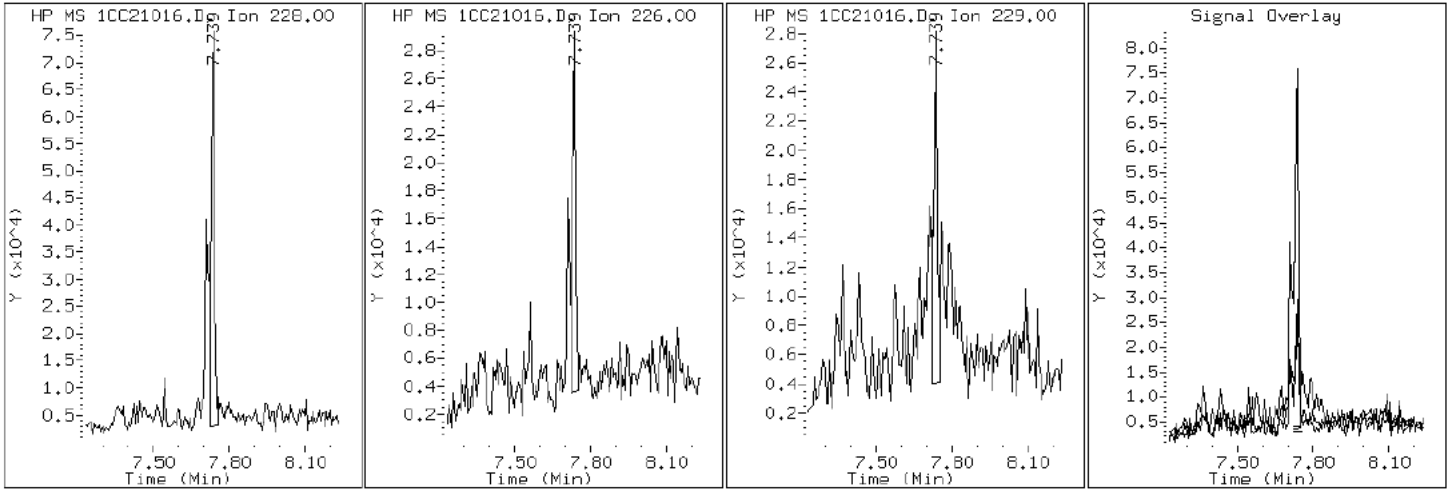
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

19 Chrysene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

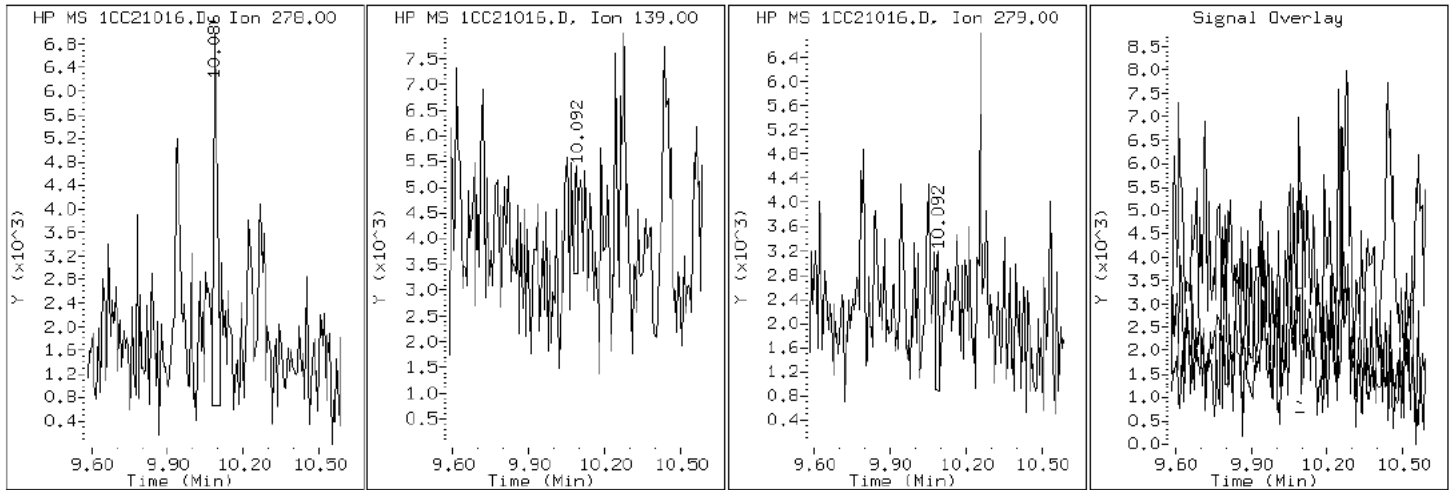
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

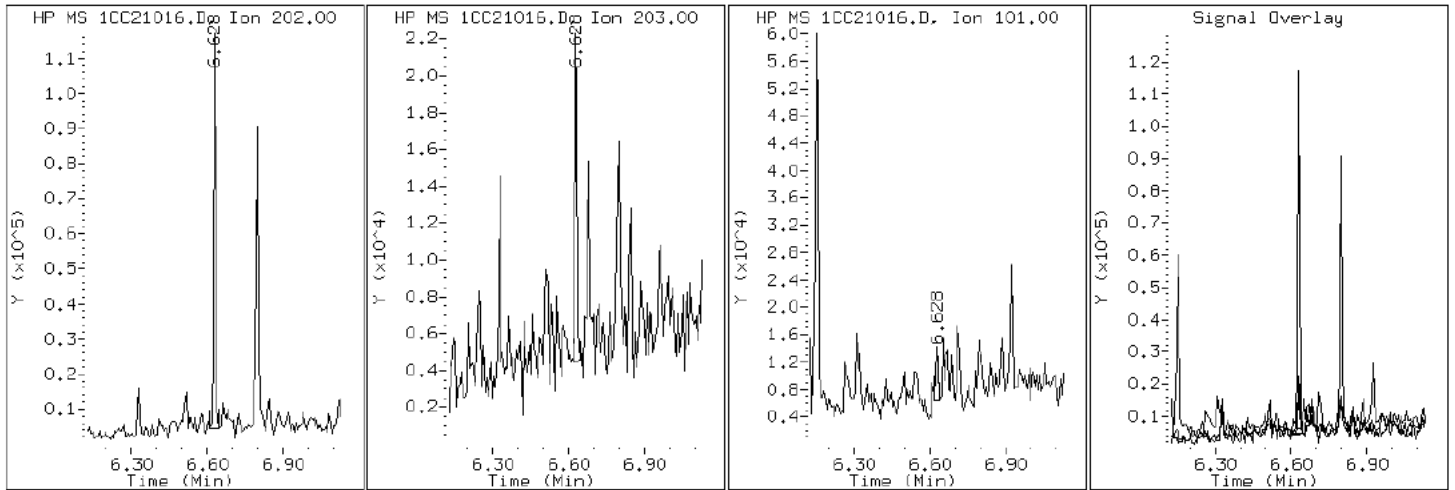
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

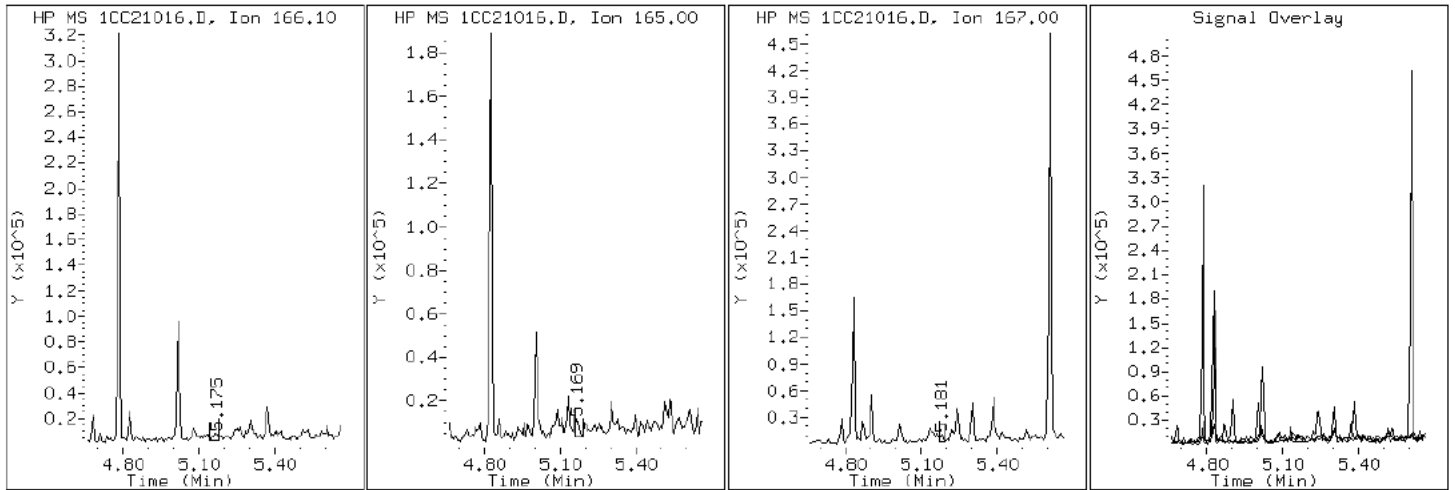
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

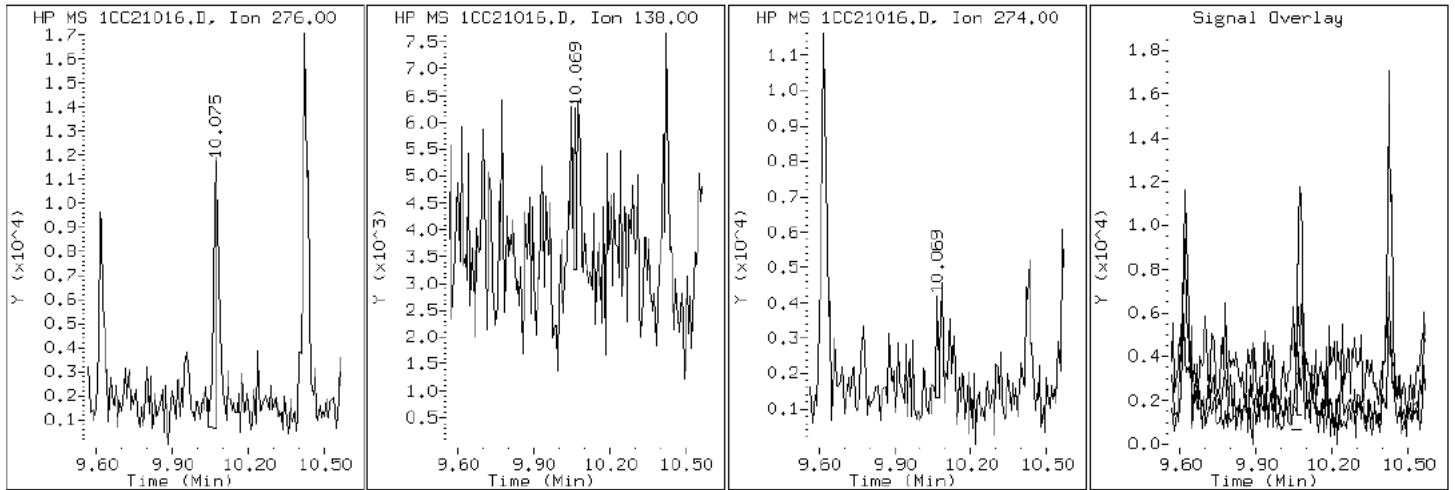
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

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



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

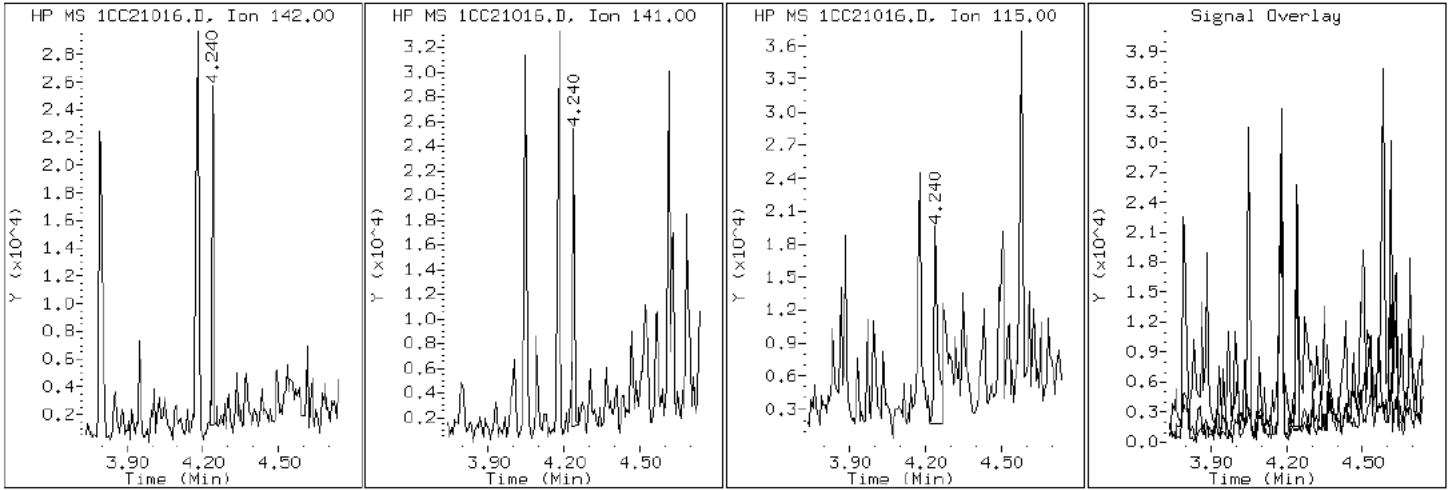
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

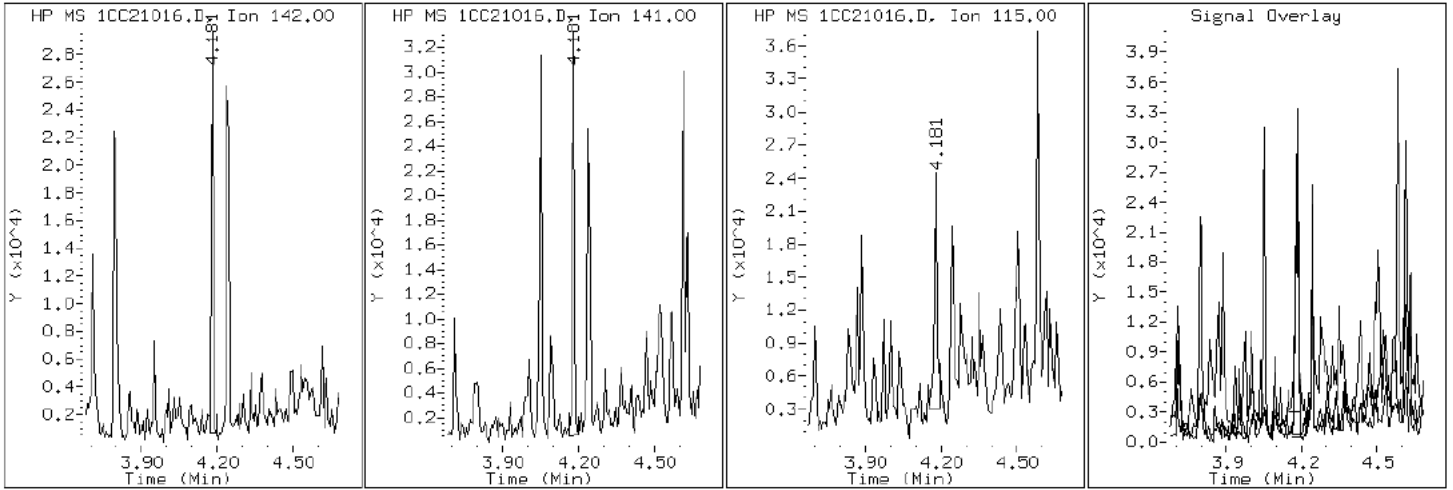
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

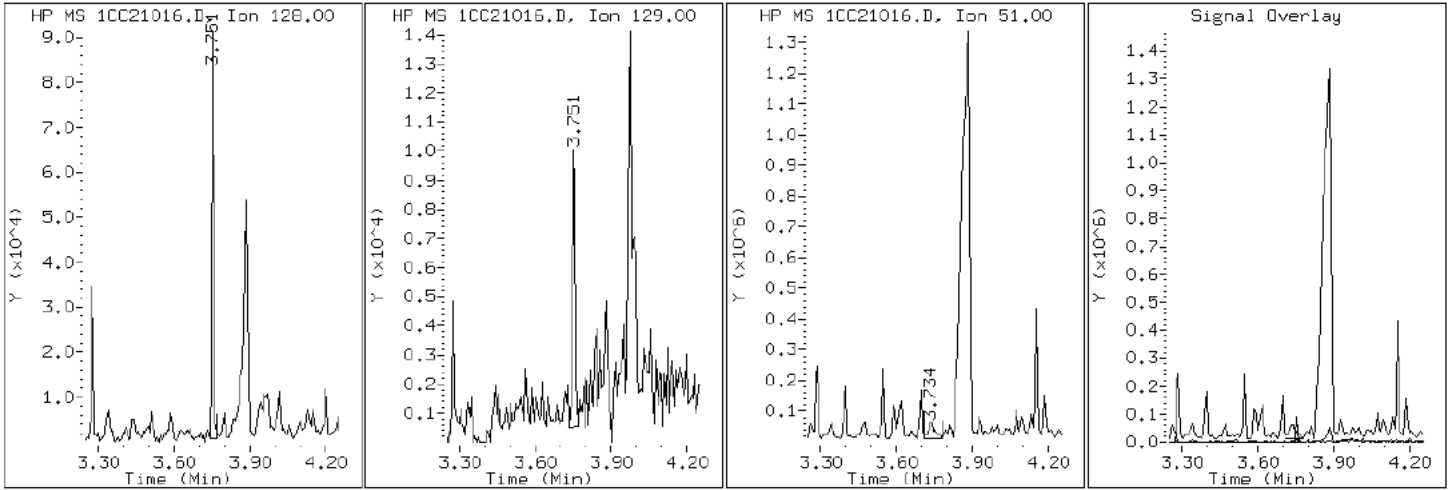
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

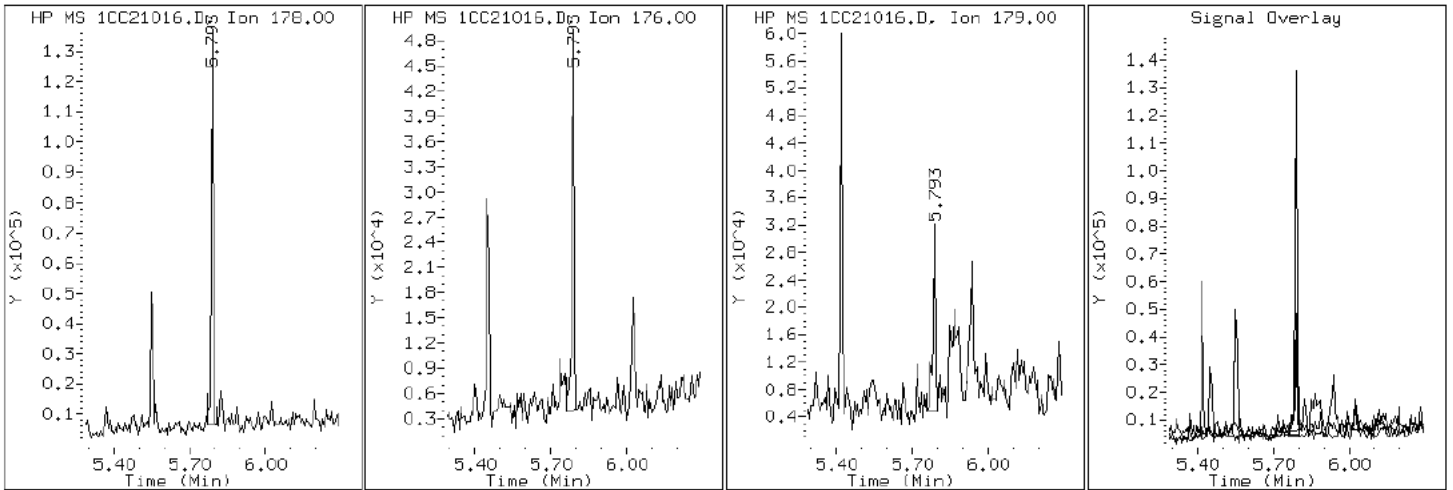
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21016.D

Date: 21-MAR-2013 15:32

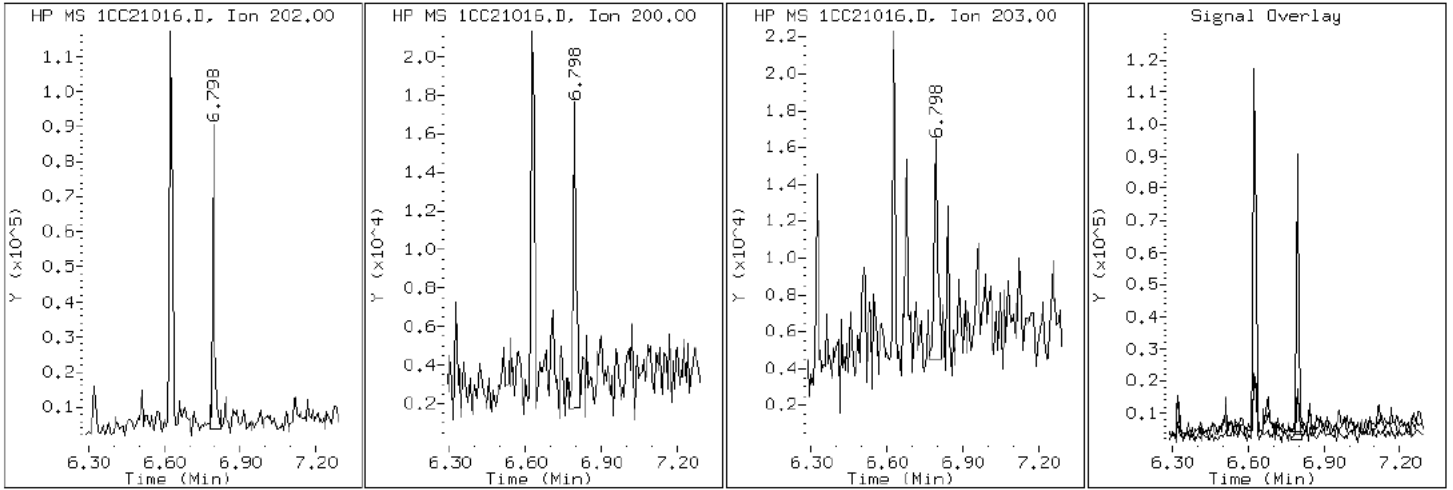
Client ID: CV1241A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-10-a

Operator: SCC

16 Pyrene

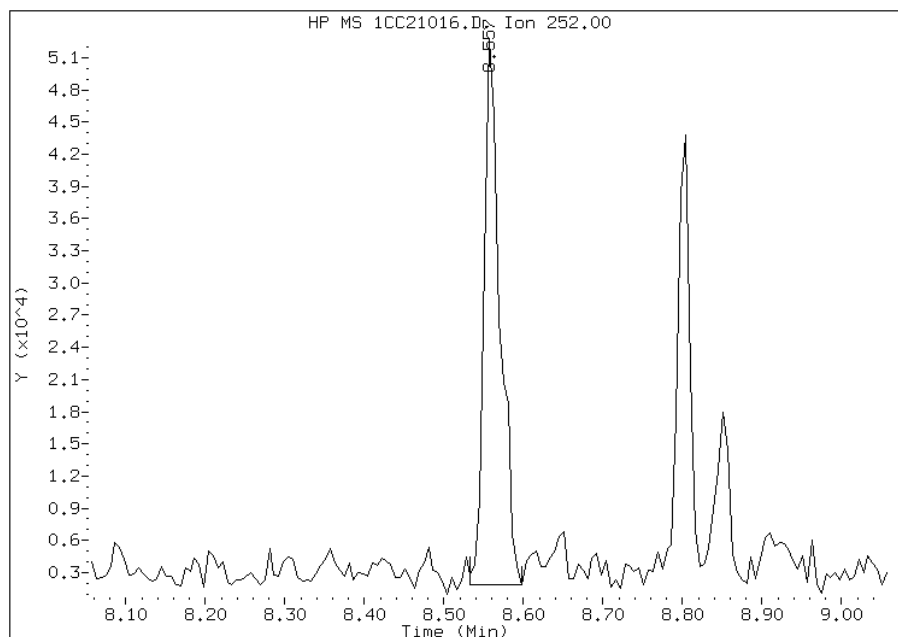


Manual Integration Report

Data File: 1CC21016.D
Inj. Date and Time: 21-MAR-2013 15:32
Instrument ID: BSMC5973.i
Client ID: CV1241A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

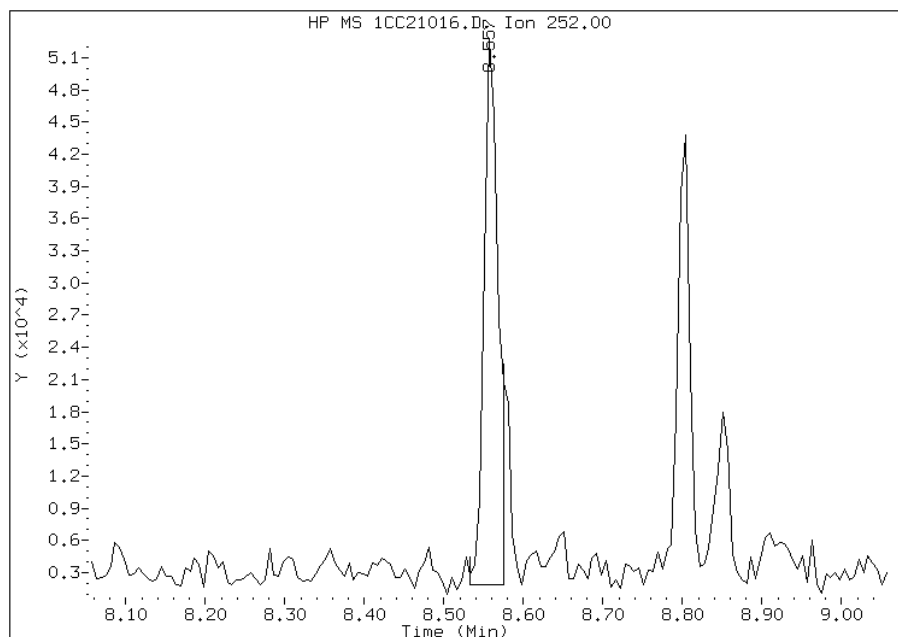
Processing Integration Results

RT: 8.56
Response: 71132
Amount: 2
Conc: 201



Manual Integration Results

RT: 8.56
Response: 62933
Amount: 2
Conc: 178



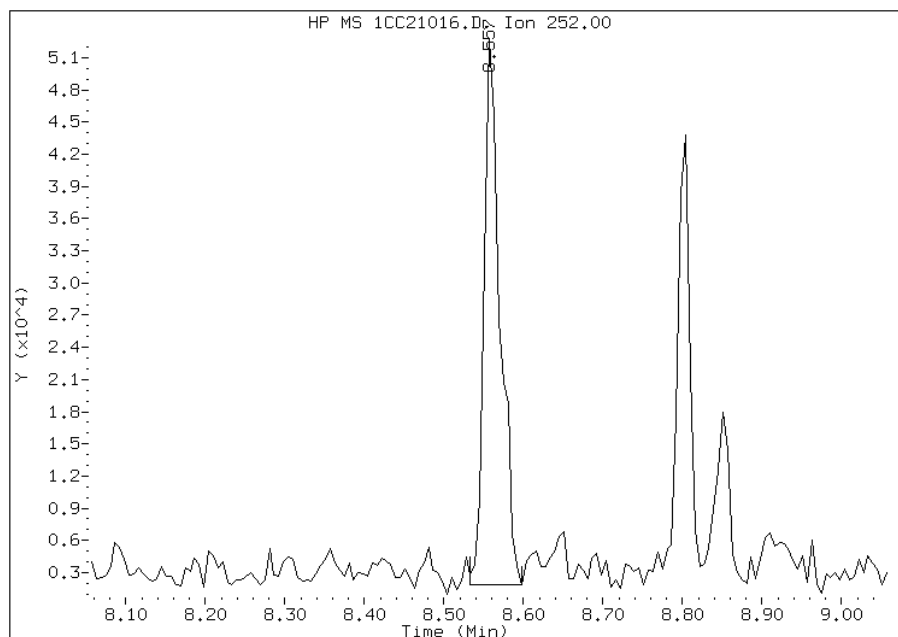
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21016.D
Inj. Date and Time: 21-MAR-2013 15:32
Instrument ID: BSMC5973.i
Client ID: CV1241A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

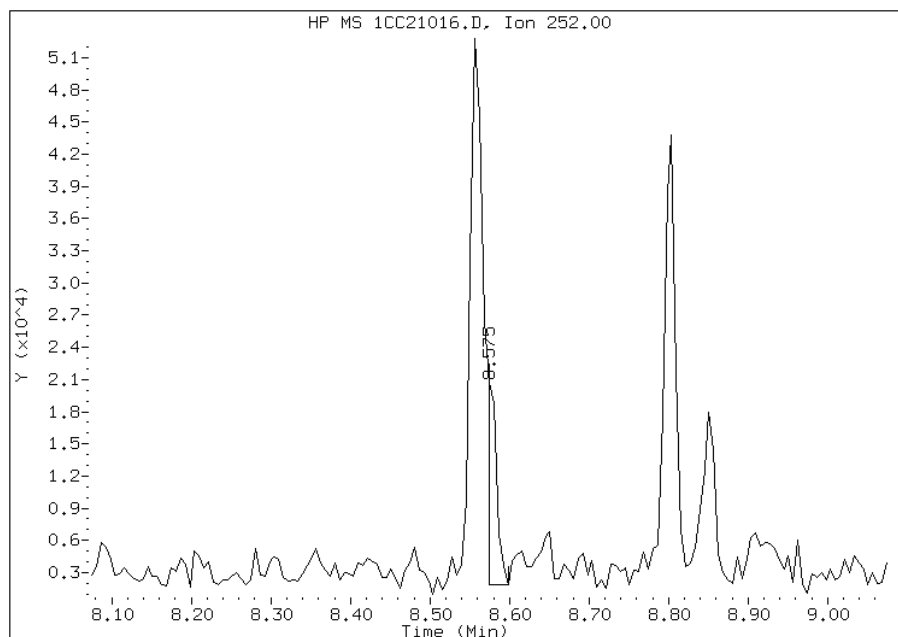
Processing Integration Results

RT: 8.56
Response: 71132
Amount: 2
Conc: 196



Manual Integration Results

RT: 8.57
Response: 14870
Amount: 0
Conc: 41



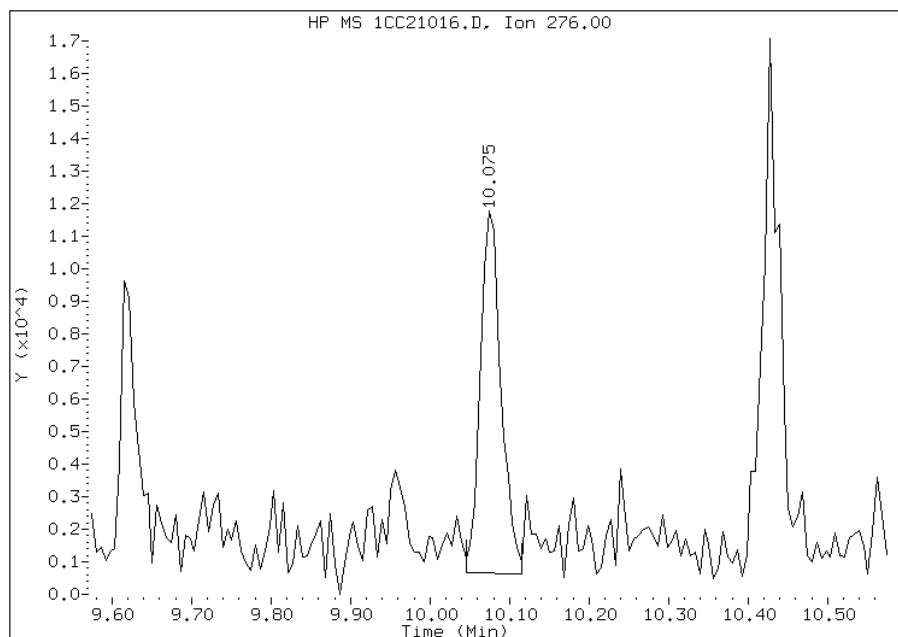
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21016.D
Inj. Date and Time: 21-MAR-2013 15:32
Instrument ID: BSMC5973.i
Client ID: CV1241A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

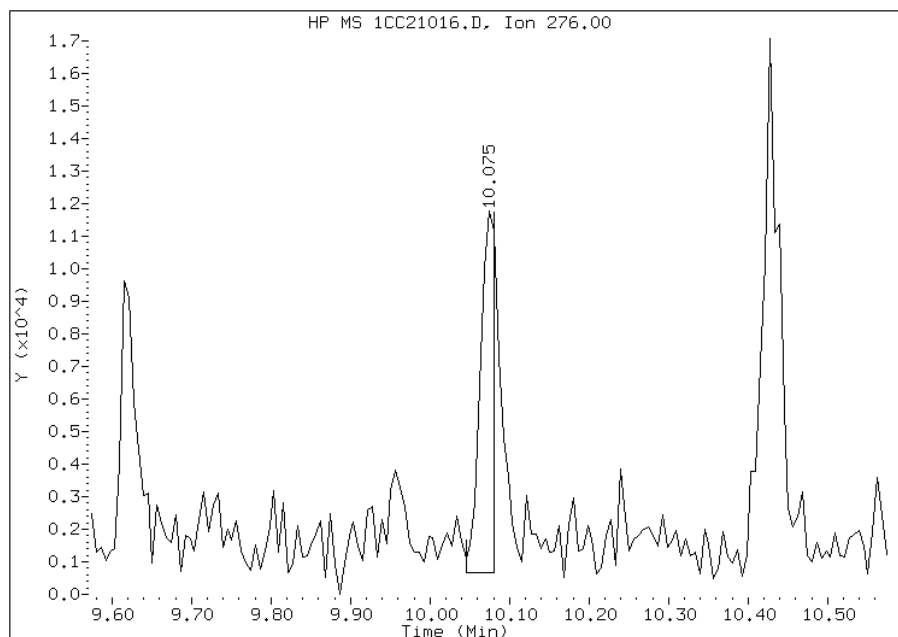
Processing Integration Results

RT: 10.07
Response: 19938
Amount: 1
Conc: 62



Manual Integration Results

RT: 10.07
Response: 14124
Amount: 0
Conc: 44



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV1241B-CS Lab Sample ID: 680-88348-11
 Matrix: Solid Lab File ID: 1CC21017.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:45
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.17(g) Date Analyzed: 03/21/2013 15:51
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 33.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	50	J	59	7.4
120-12-7	Anthracene	34		12	6.2
56-55-3	Benzo[a]anthracene	140		12	5.8
50-32-8	Benzo[a]pyrene	120		15	7.7
205-99-2	Benzo[b]fluoranthene	330		18	9.0
191-24-2	Benzo[g,h,i]perylene	140		30	6.5
207-08-9	Benzo[k]fluoranthene	91		12	5.3
218-01-9	Chrysene	250		13	6.7
53-70-3	Dibenz(a,h)anthracene	39		30	6.1
206-44-0	Fluoranthene	180		30	5.9
86-73-7	Fluorene	40		30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	94		30	11
90-12-0	1-Methylnaphthalene	120		59	6.5
91-57-6	2-Methylnaphthalene	140		59	11
91-20-3	Naphthalene	200		59	6.5
85-01-8	Phenanthrene	220		12	5.8
129-00-0	Pyrene	170		30	5.5

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\1C032113.b\1CC21017.D
 Lab Smp Id: 680-88348-A-11-A Client Smp ID: CV1241B-CS
 Inj Date : 21-MAR-2013 15:51
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-11-a
 Misc Info : 680-88348-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.170	Weight Extracted
M	33.269	% 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		3.739	3.739	(1.000)	958527	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	793392	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1475094	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	127984	5.74656	567.6673	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1506329	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1404485	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	50908	2.04007	201.5256(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	23020	1.38296	136.6140	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	18817	1.24122	122.6128	
5 Acenaphthylene	152		4.739	4.739	(0.982)	16311	0.50992	50.3723(Q)	
9 Fluorene	166		5.168	5.162	(1.071)	10177	0.40475	39.9824(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	96936	2.27265	224.5015	
12 Anthracene	178		5.827	5.821	(1.009)	14398	0.34516	34.0957	
15 Fluoranthene	202		6.627	6.627	(1.148)	85616	1.83291	181.0619	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.798	6.792	(0.880)	71266	1.76051	173.9094
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	60628	1.39453	137.7570
19 Chrysene	228	7.739	7.733	(1.002)	108332	2.48992	245.9638
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.960)	121966	3.32292	328.2512
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.963)	34580	0.91839	90.7216(Q)
22 Benzo(a)pyrene	252	8.851	8.845	(0.993)	43078	1.20829	119.3596
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.068	(1.131)	31774	0.94739	93.5868(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	13025	0.39704	39.2210
26 Benzo(g,h,i)perylene	276	10.433	10.421	(1.171)	50548	1.44077	142.3247

QC Flag Legend

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

Data File: 1CC21017.D

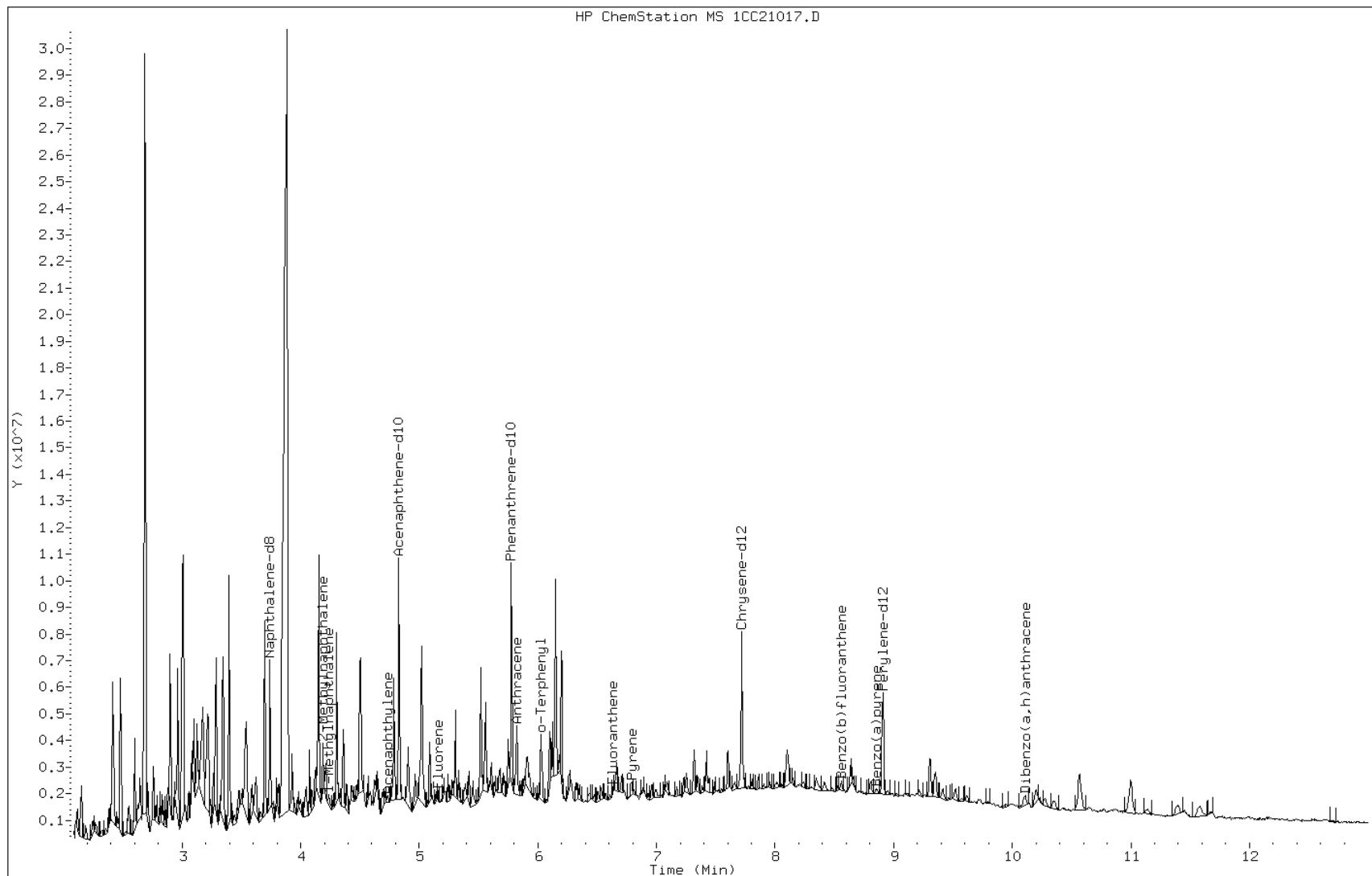
Date: 21-MAR-2013 15:51

Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

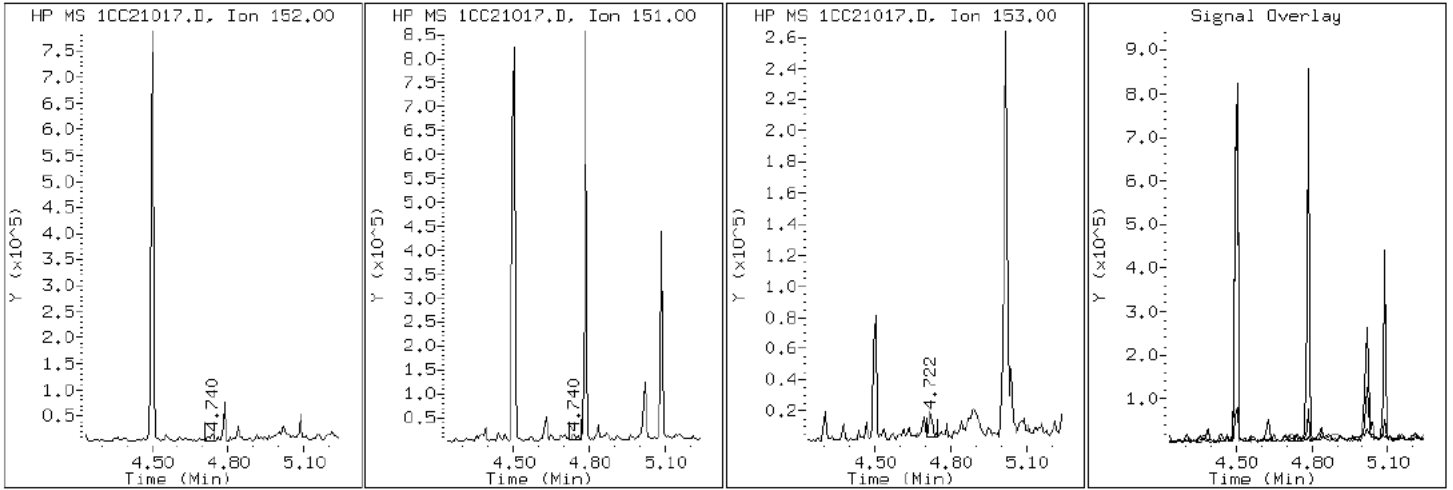
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

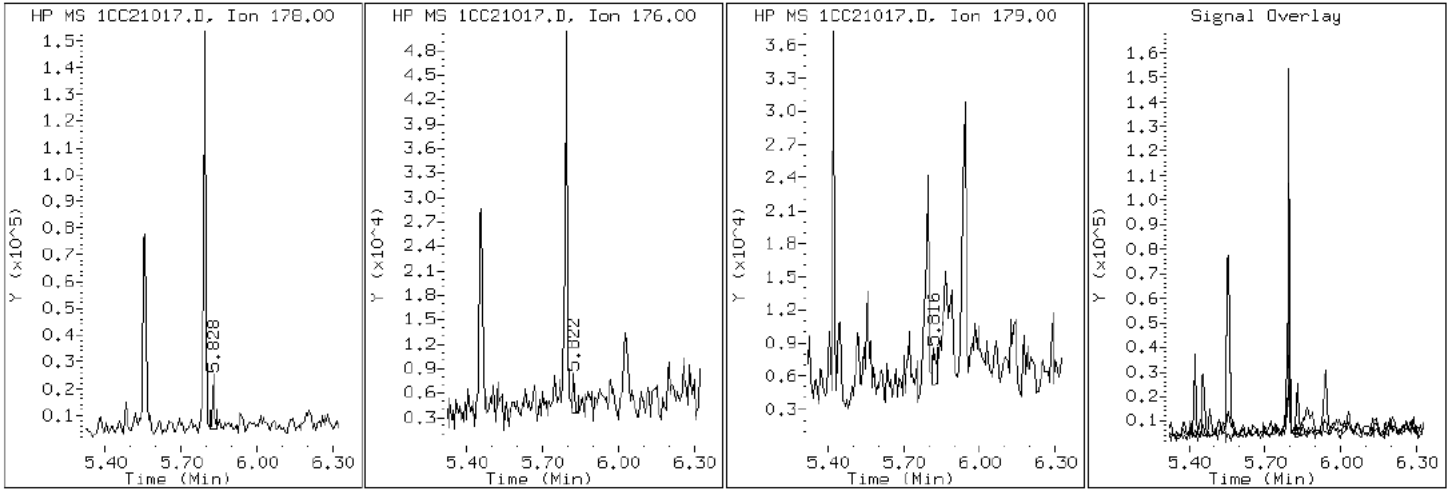
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

12 Anthracene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

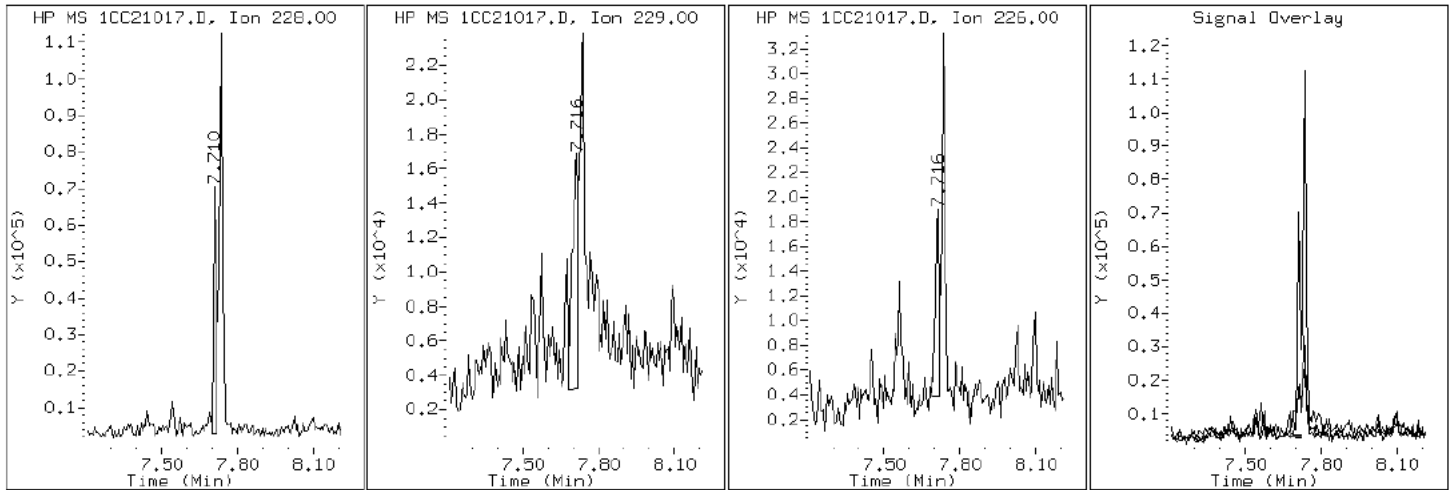
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

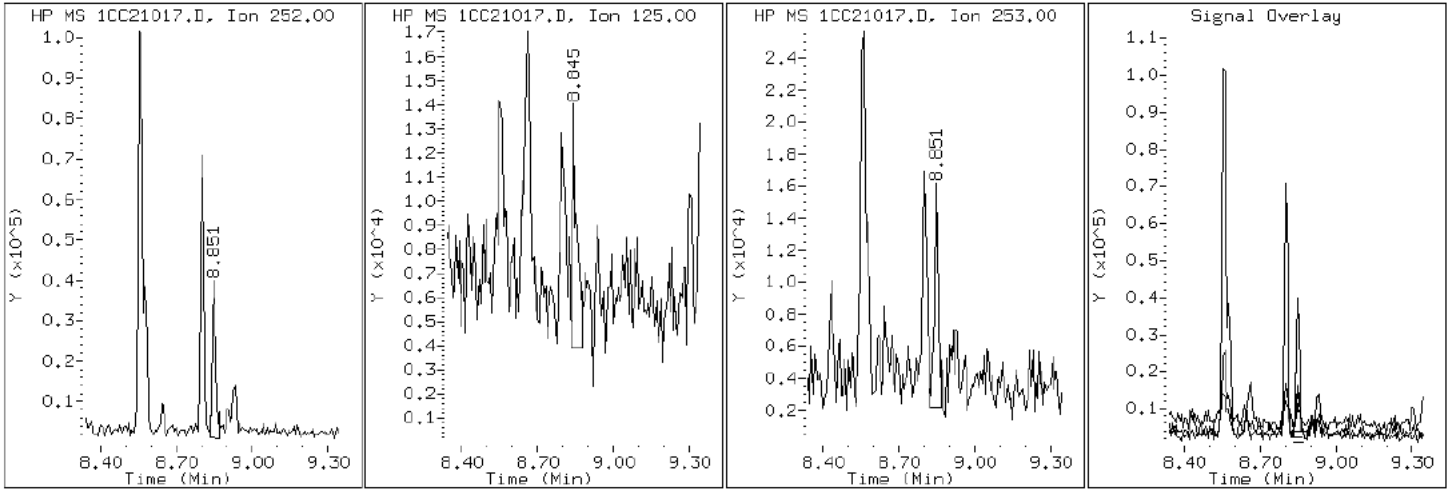
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

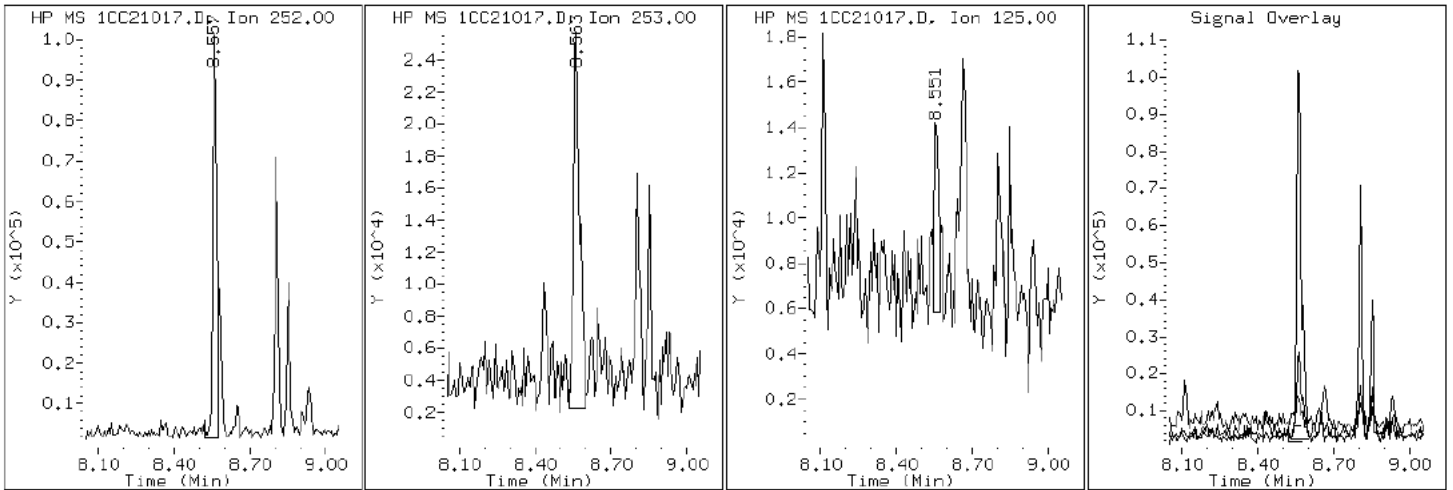
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

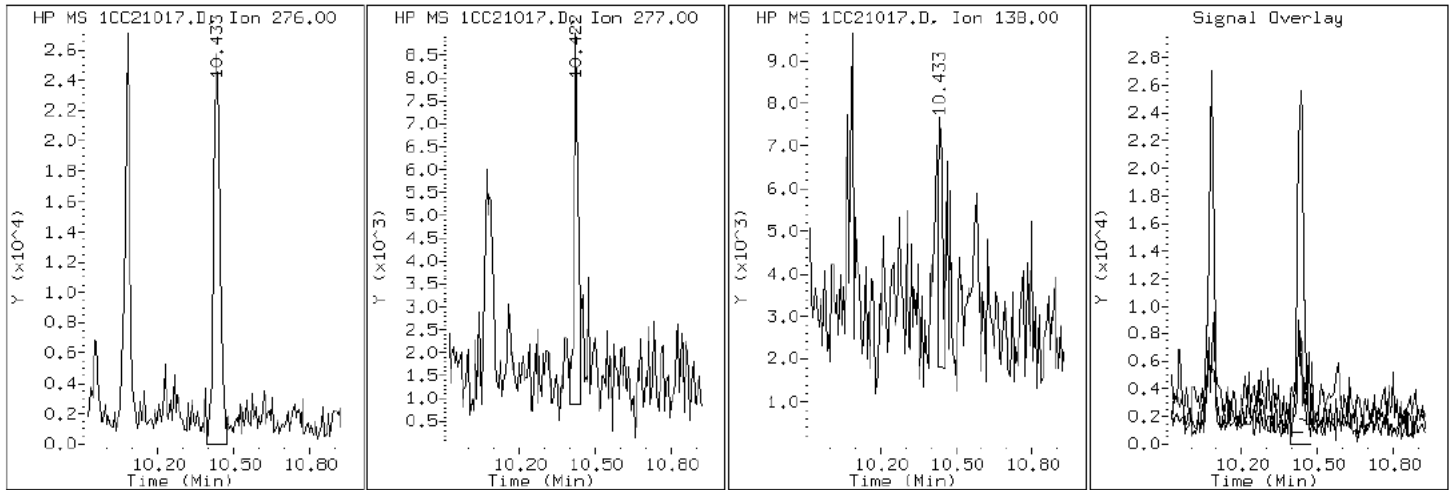
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

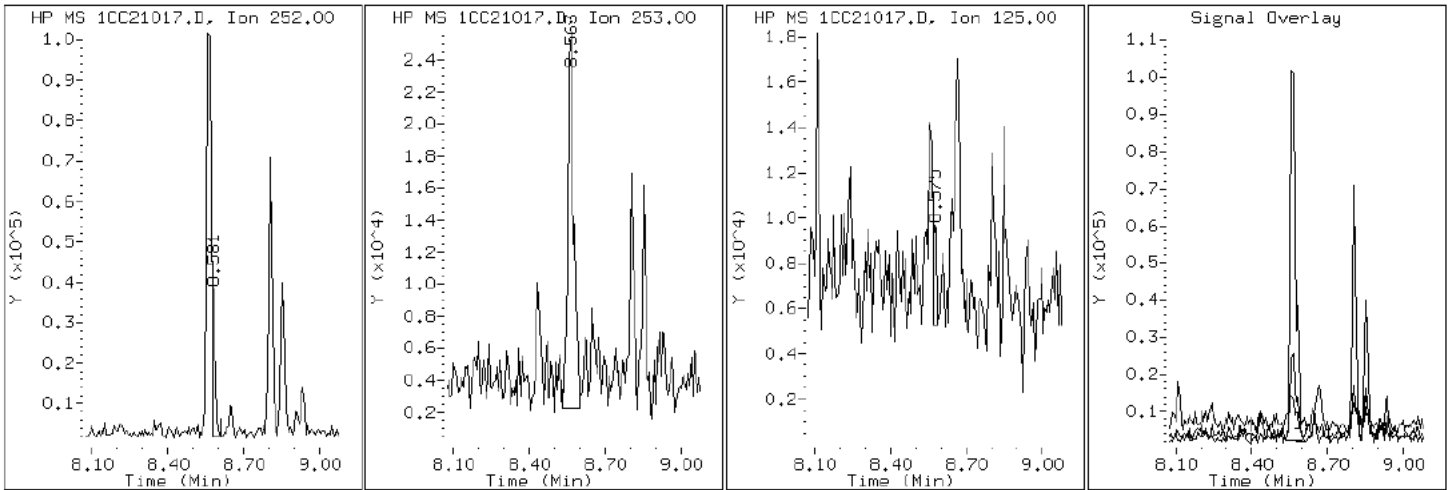
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

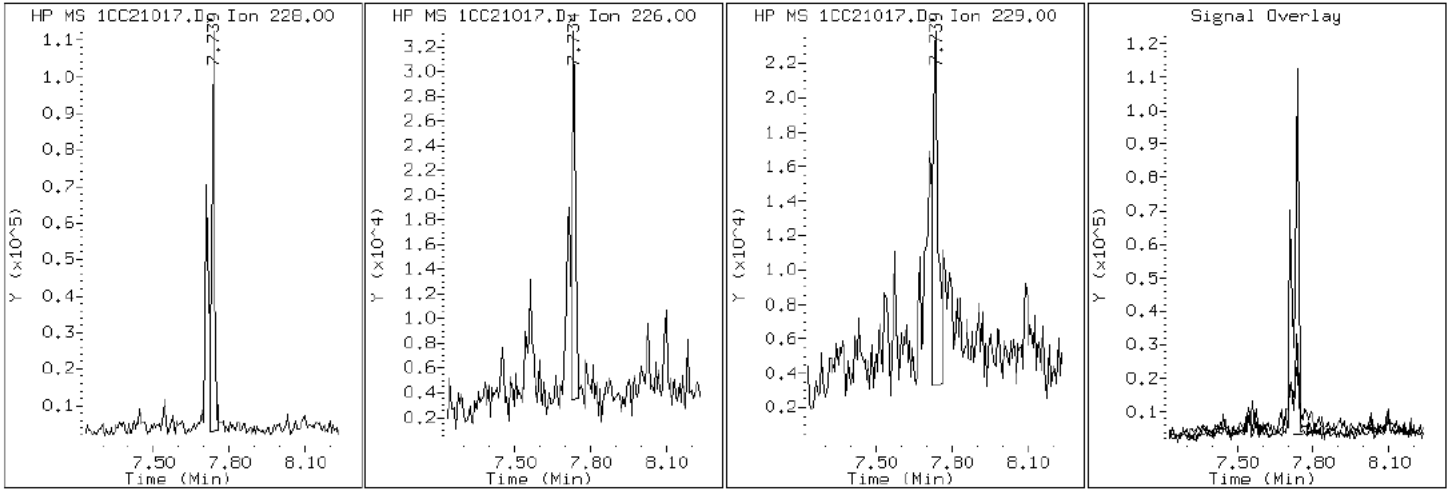
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

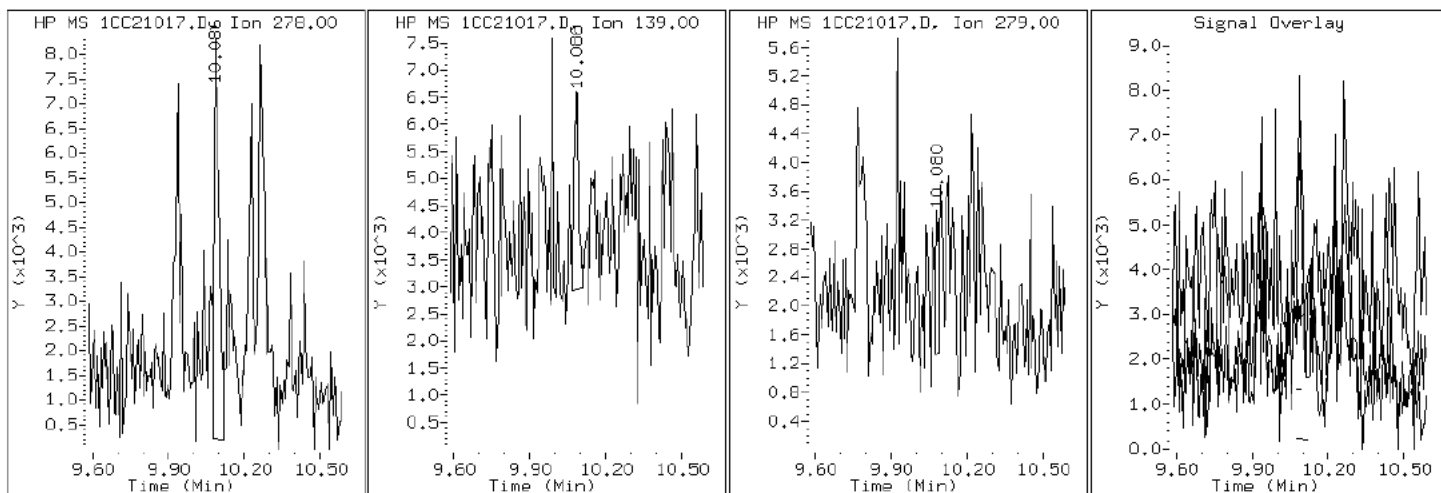
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

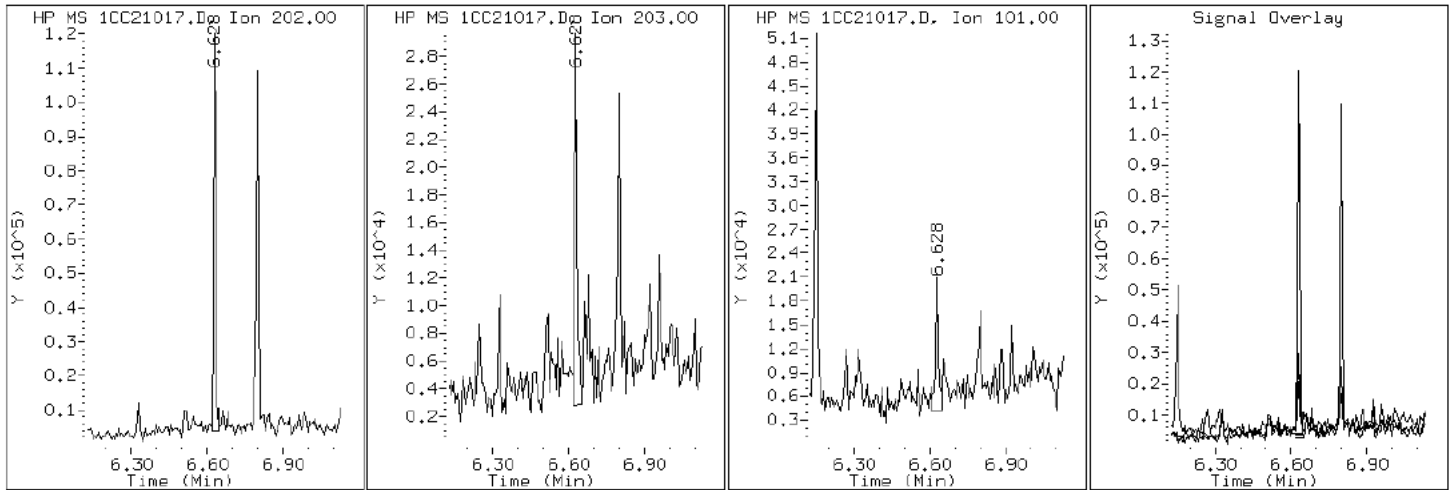
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

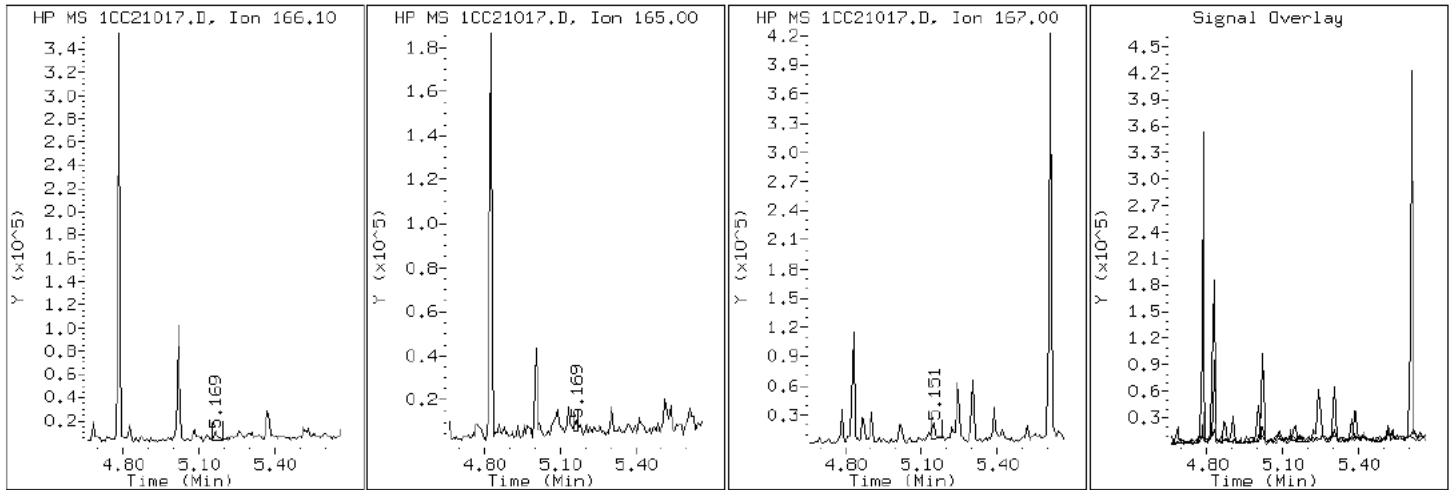
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

9 Fluorene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

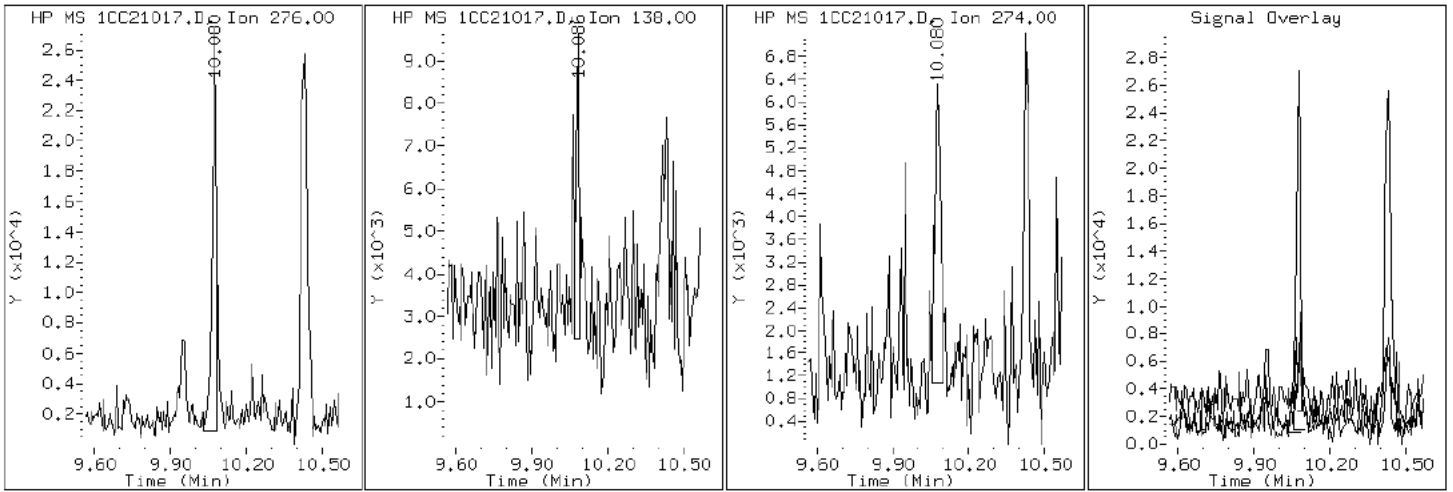
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

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



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

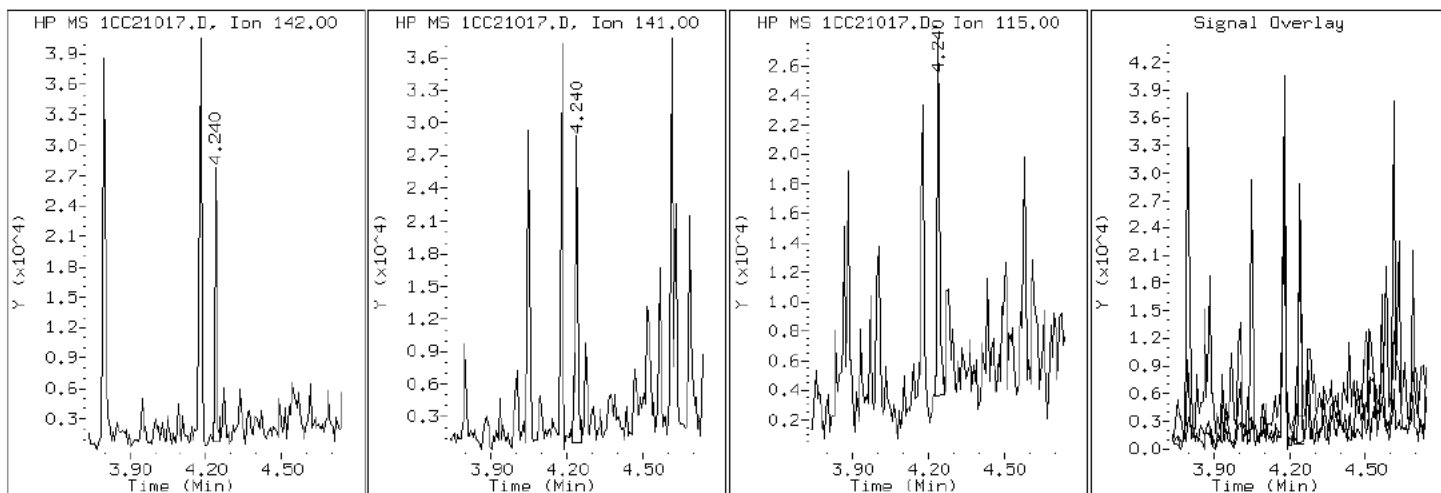
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

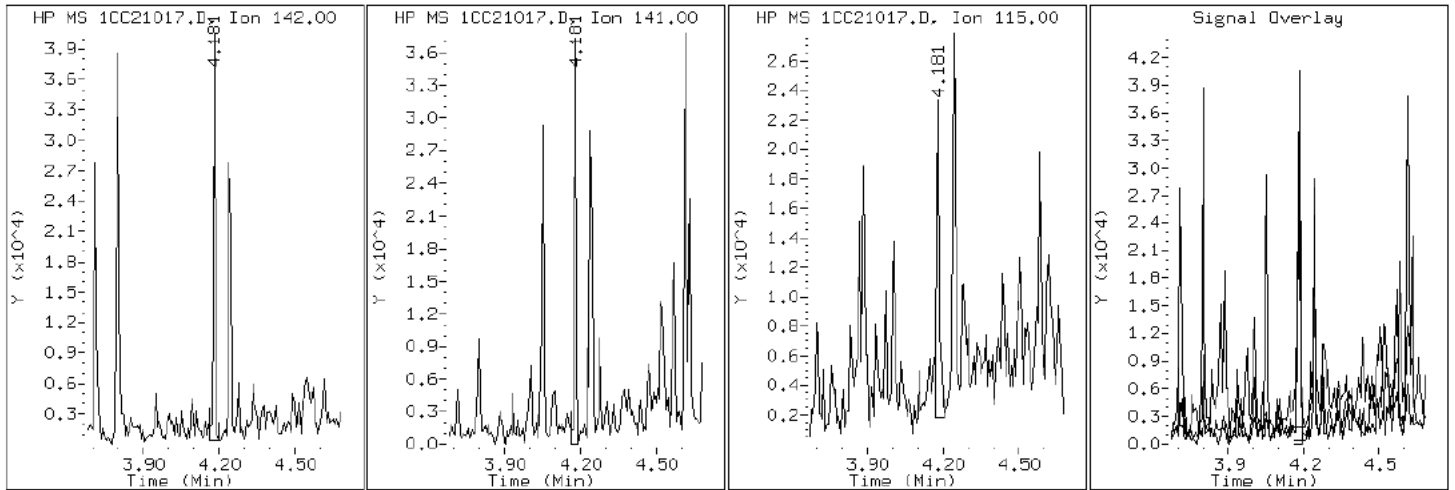
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

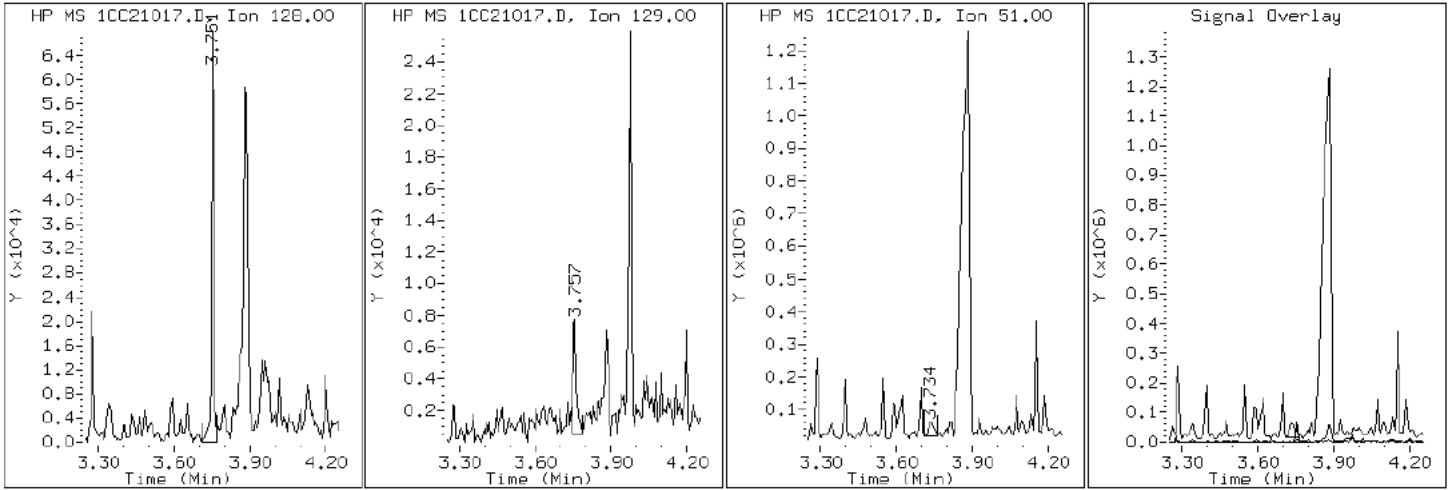
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

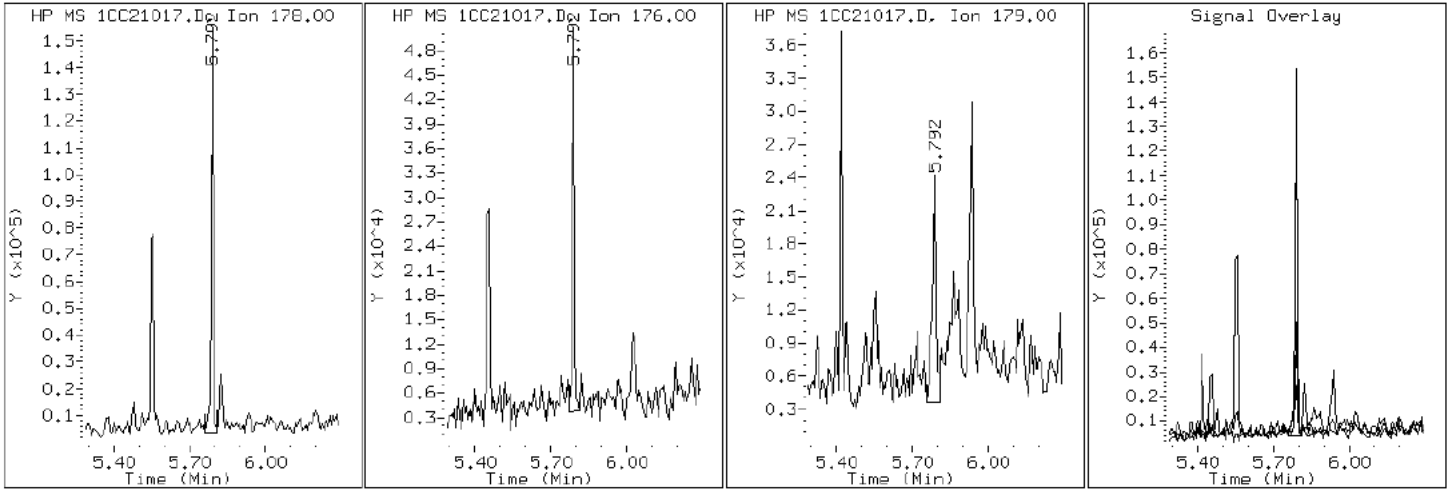
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21017.D

Date: 21-MAR-2013 15:51

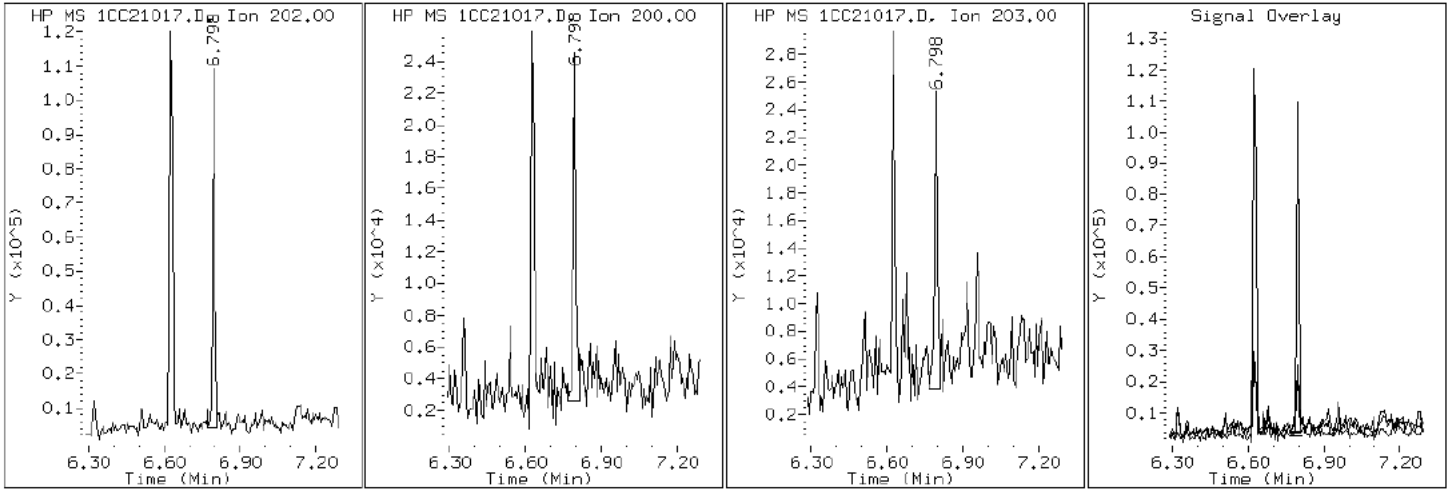
Client ID: CV1241B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-11-a

Operator: SCC

16 Pyrene

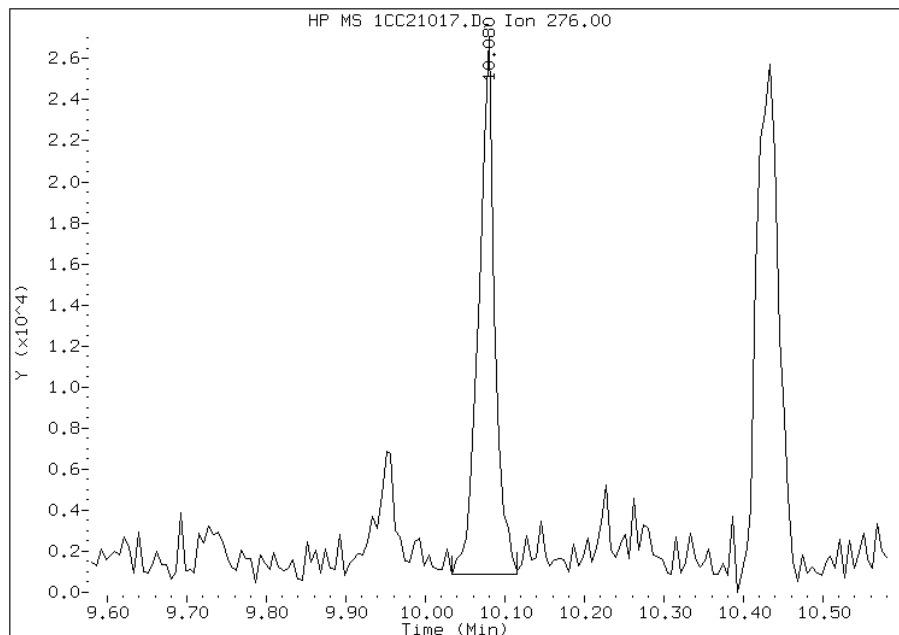


Manual Integration Report

Data File: 1CC21017.D
Inj. Date and Time: 21-MAR-2013 15:51
Instrument ID: BSMC5973.i
Client ID: CV1241B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

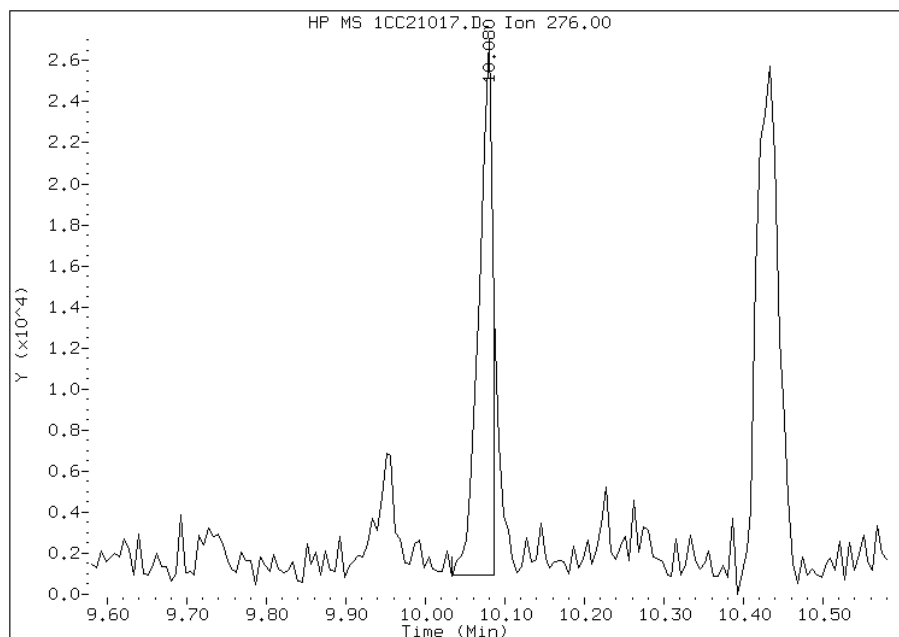
Processing Integration Results

RT: 10.08
Response: 36409
Amount: 1
Conc: 107



Manual Integration Results

RT: 10.08
Response: 31774
Amount: 1
Conc: 94



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV1241C-CS Lab Sample ID: 680-88348-12
 Matrix: Solid Lab File ID: 1CC21018.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:55
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.03(g) Date Analyzed: 03/21/2013 16:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	9.3	J	61	7.6
120-12-7	Anthracene	31		13	6.4
56-55-3	Benzo[a]anthracene	150		12	5.9
50-32-8	Benzo[a]pyrene	170		16	7.9
205-99-2	Benzo[b]fluoranthene	340		18	9.2
191-24-2	Benzo[g,h,i]perylene	160		30	6.7
207-08-9	Benzo[k]fluoranthene	150		12	5.5
218-01-9	Chrysene	230		14	6.8
53-70-3	Dibenz(a,h)anthracene	54		30	6.2
206-44-0	Fluoranthene	210		30	6.1
86-73-7	Fluorene	22	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	130		30	11
90-12-0	1-Methylnaphthalene	110		61	6.7
91-57-6	2-Methylnaphthalene	100		61	11
91-20-3	Naphthalene	130		61	6.7
85-01-8	Phenanthrene	190		12	5.9
129-00-0	Pyrene	180		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21018.D
 Lab Smp Id: 680-88348-A-12-A Client Smp ID: CV1241C-CS
 Inj Date : 21-MAR-2013 16:09
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-12-a
 Misc Info : 680-88348-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	34.091	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	938946	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	767205	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1353126	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	127707	6.25099	631.0216	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1407735	40.0000		
* 23 Perylene-d12	264		8.903	8.898	(1.000)	1376934	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	32345	1.32321	133.5749	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	16725	1.02573	103.5451	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	15770	1.06193	107.1990	
5 Acenaphthylene	152		4.739	4.739	(0.982)	2858	0.09240	9.3273	
9 Fluorene	166		5.168	5.162	(1.071)	5405	0.22230	22.4404	
11 Phenanthrene	178		5.792	5.792	(1.003)	74902	1.91436	193.2497	
12 Anthracene	178		5.827	5.821	(1.009)	11675	0.30511	30.7996	
13 Carbazole	167		5.933	5.933	(1.028)	9814	0.28852	29.1251	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.627	6.627	(1.148)	87440	2.04069	206.0030
16 Pyrene	202	6.798	6.792	(0.880)	68234	1.80366	182.0750
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	60496	1.48895	150.3059
19 Chrysene	228	7.739	7.733	(1.002)	91613	2.25312	227.4470
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	122499	3.40422	343.6480(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	54384	1.47325	148.7205(M)
22 Benzo(a)pyrene	252	8.850	8.845	(0.994)	59788	1.71054	172.6750
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	42143	1.28170	129.3844(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.133)	17120	0.53231	53.7352
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.171)	53250	1.54815	156.2822

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21018.D

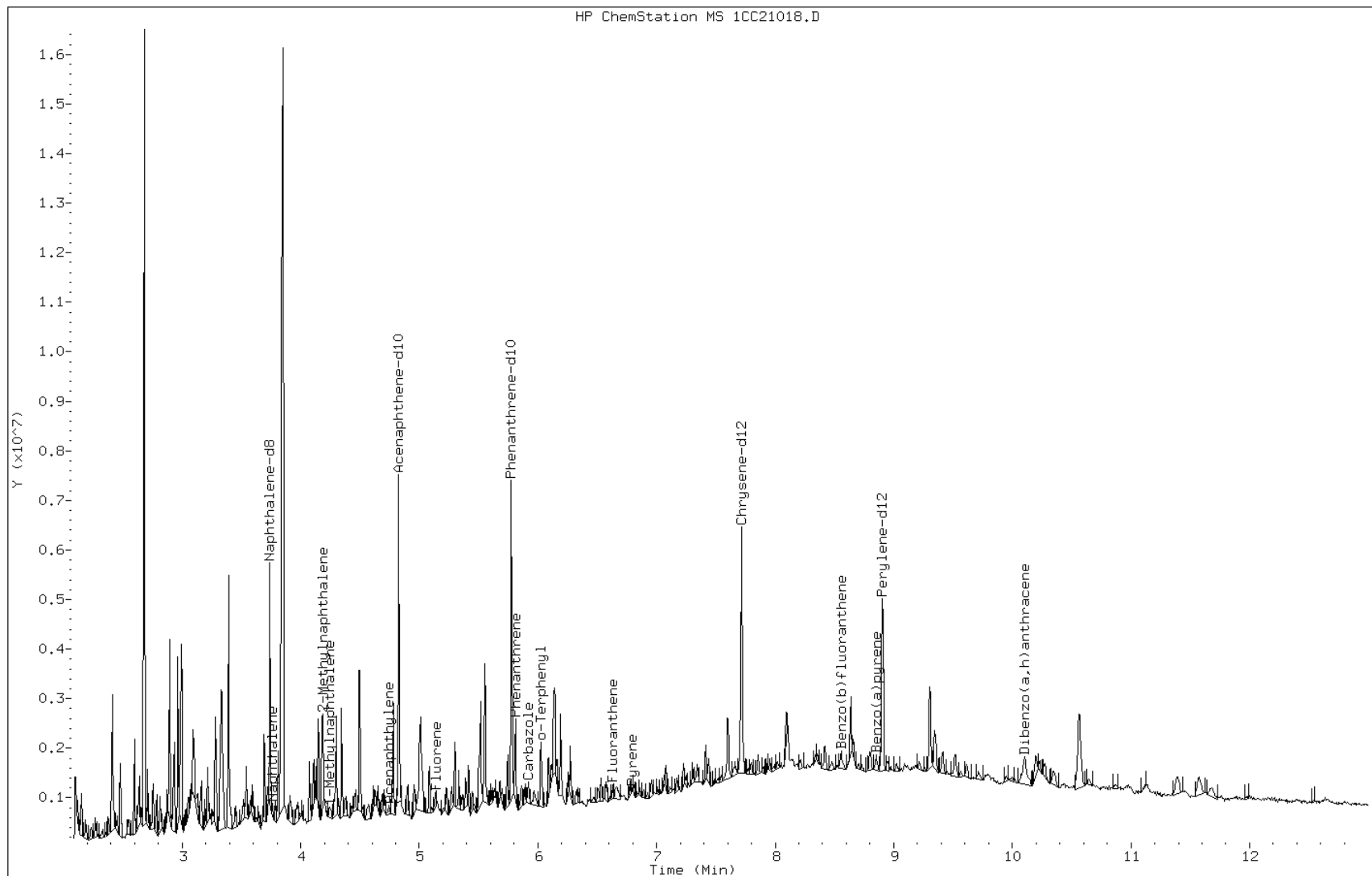
Date: 21-MAR-2013 16:09

Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

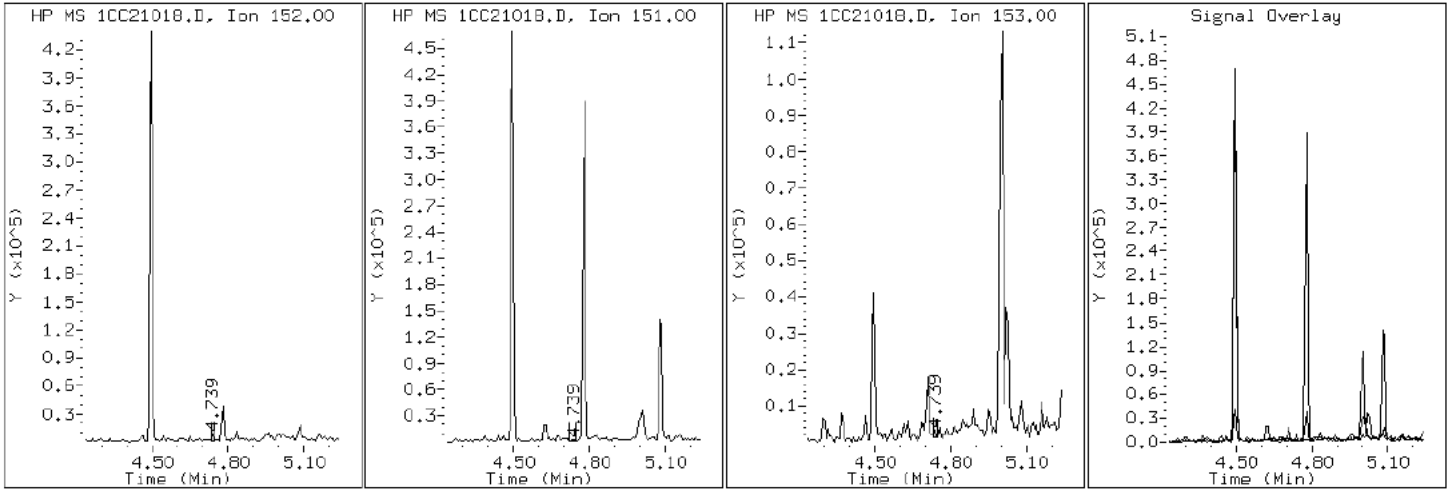
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

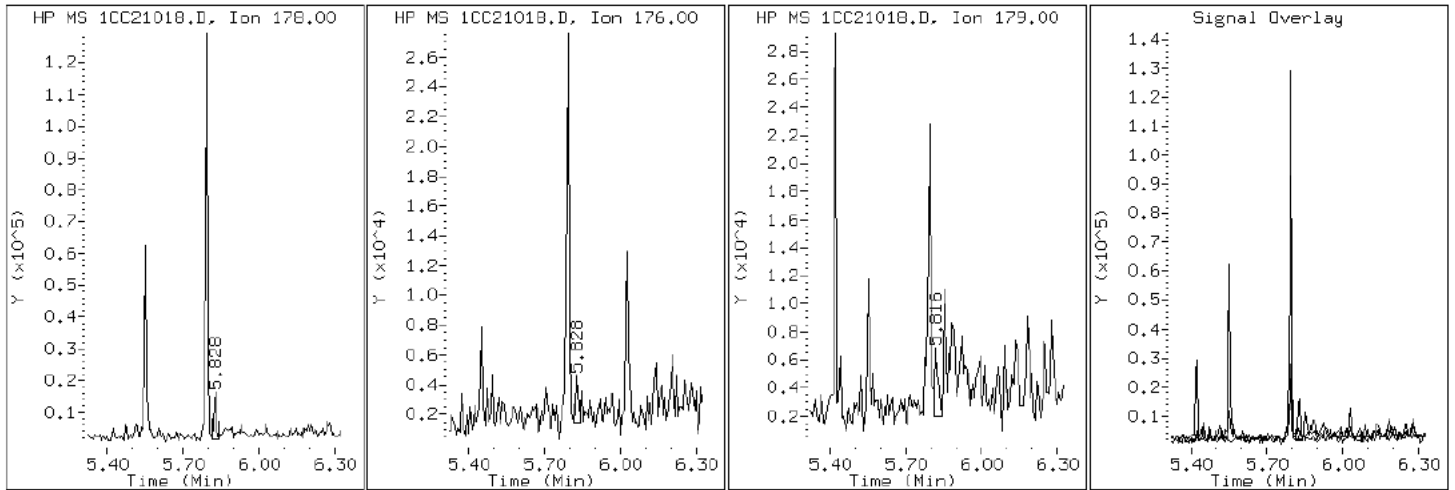
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

12 Anthracene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

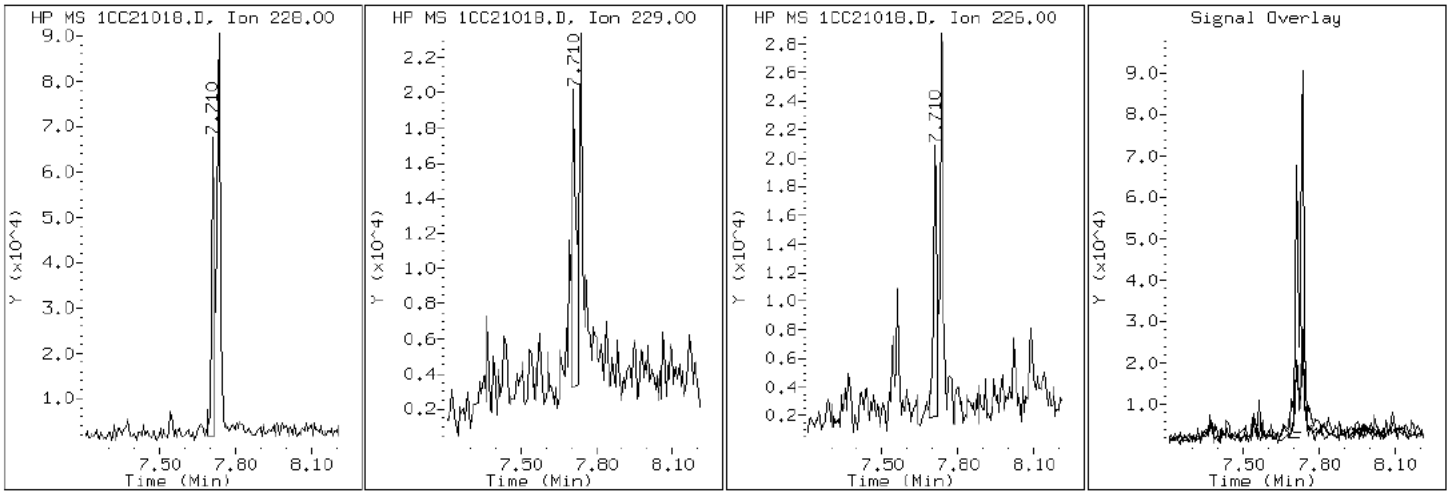
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

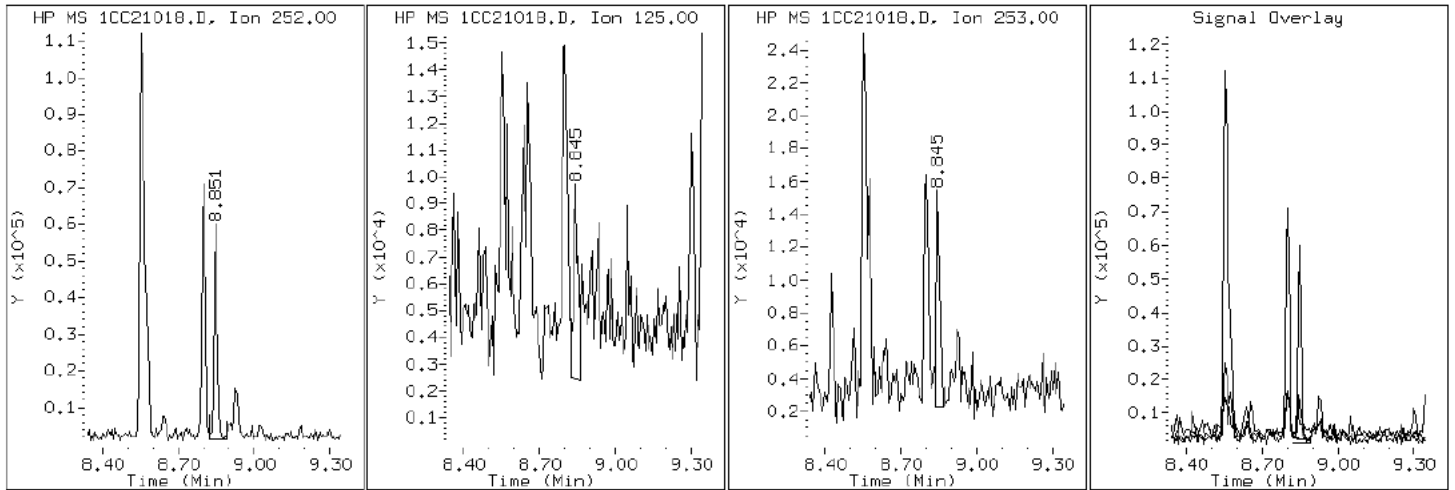
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

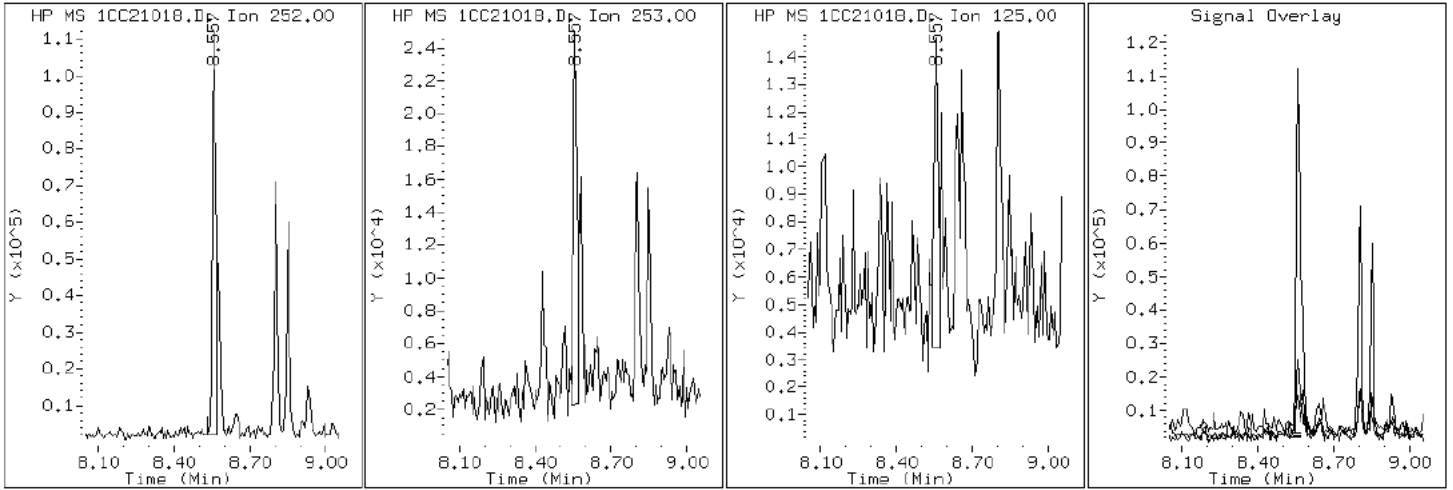
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

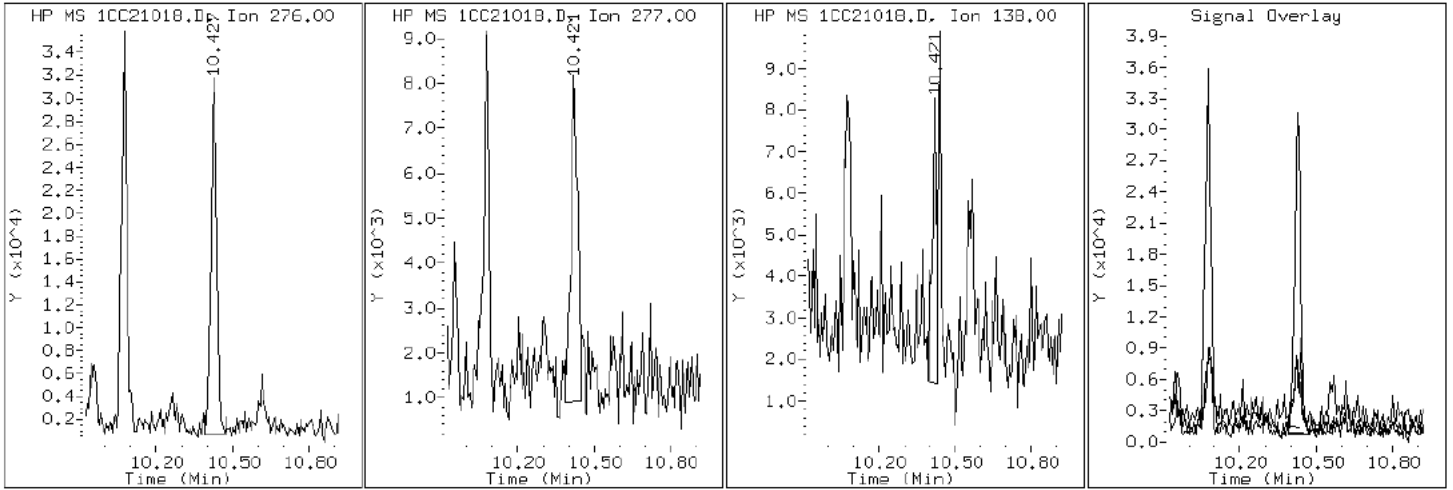
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

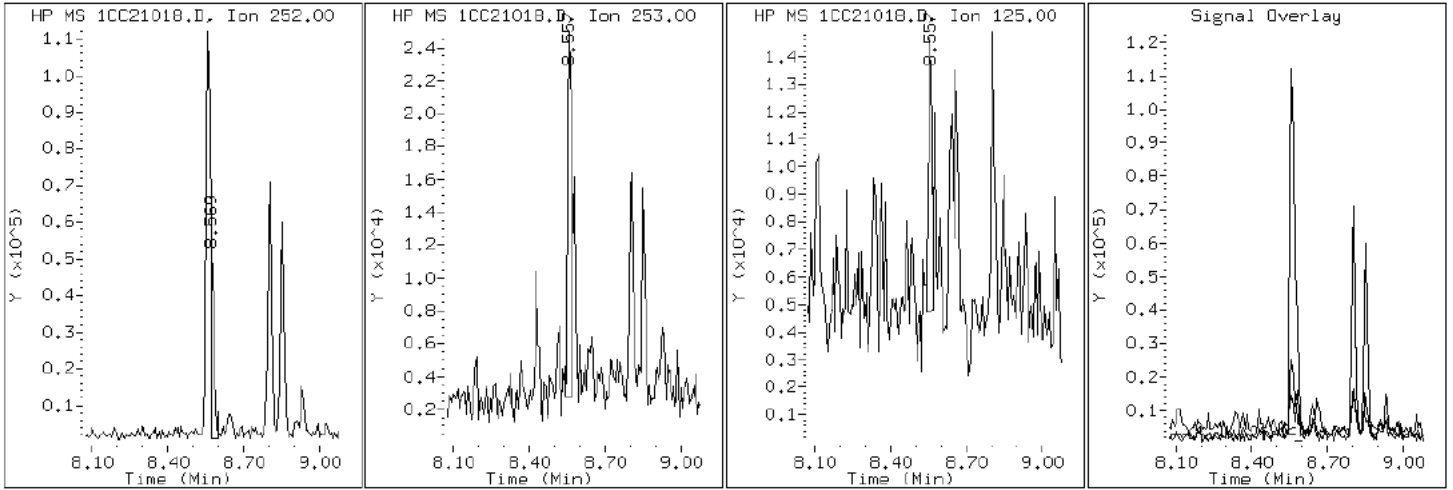
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

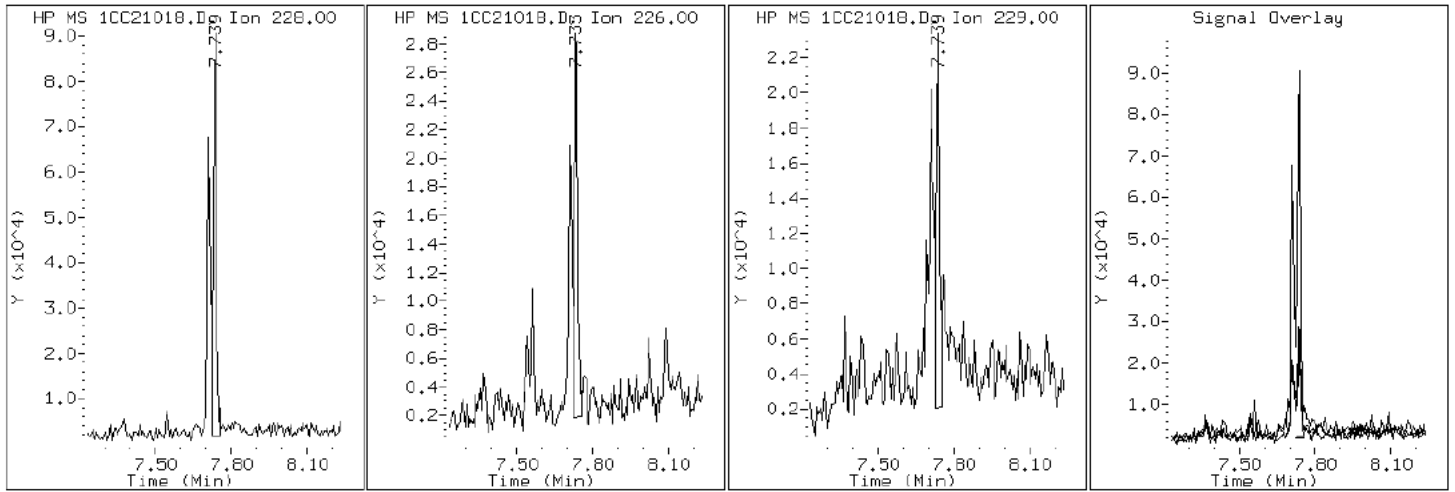
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

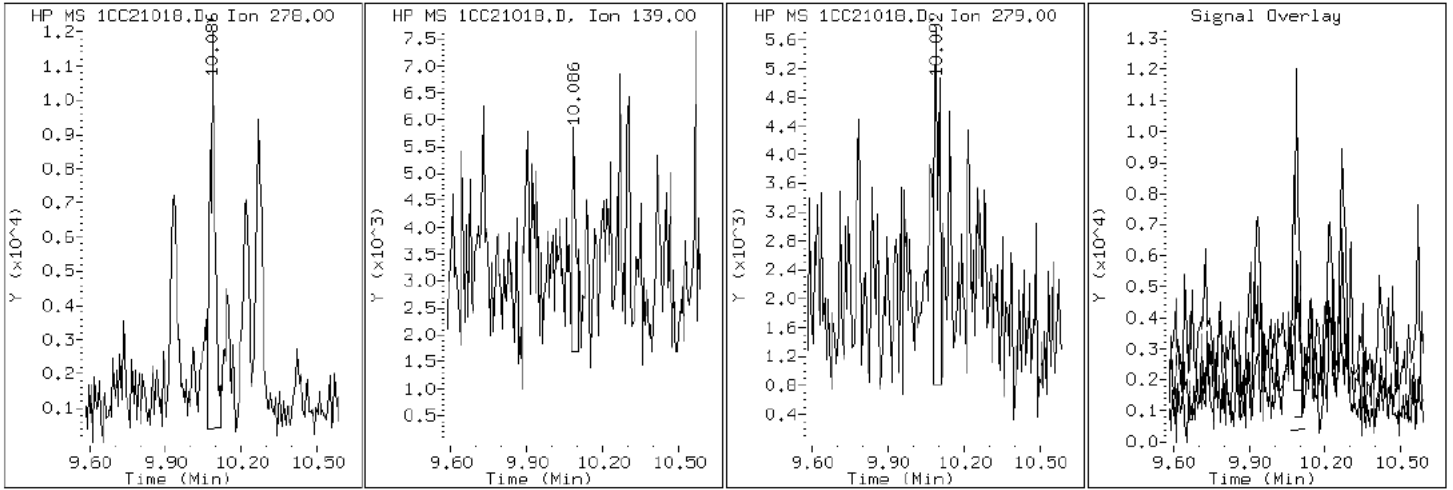
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

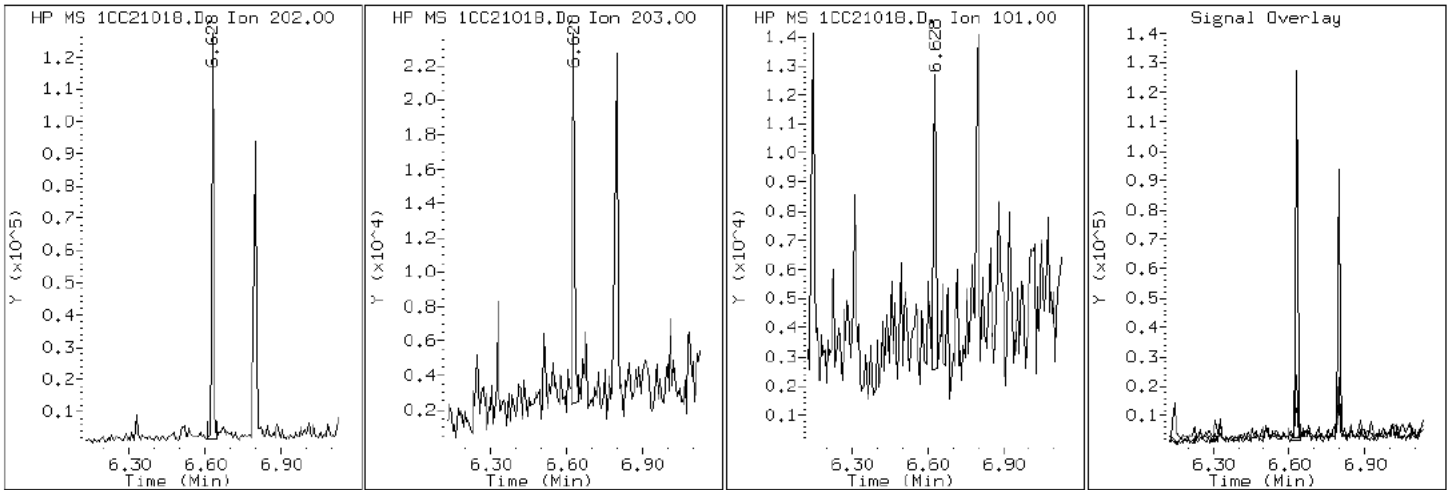
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

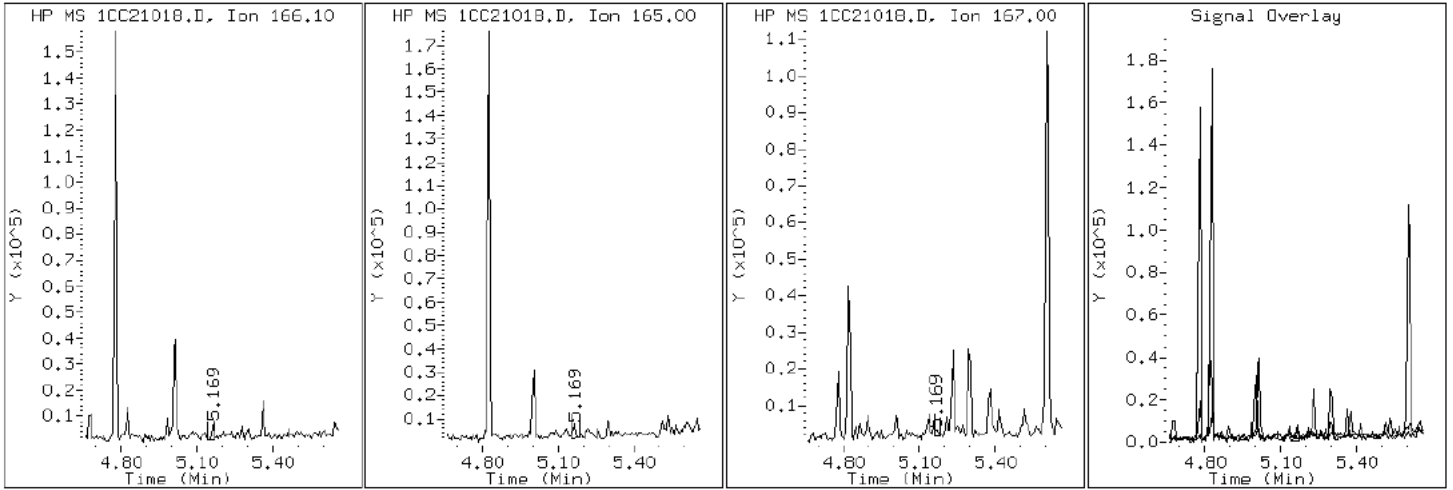
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

9 Fluorene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

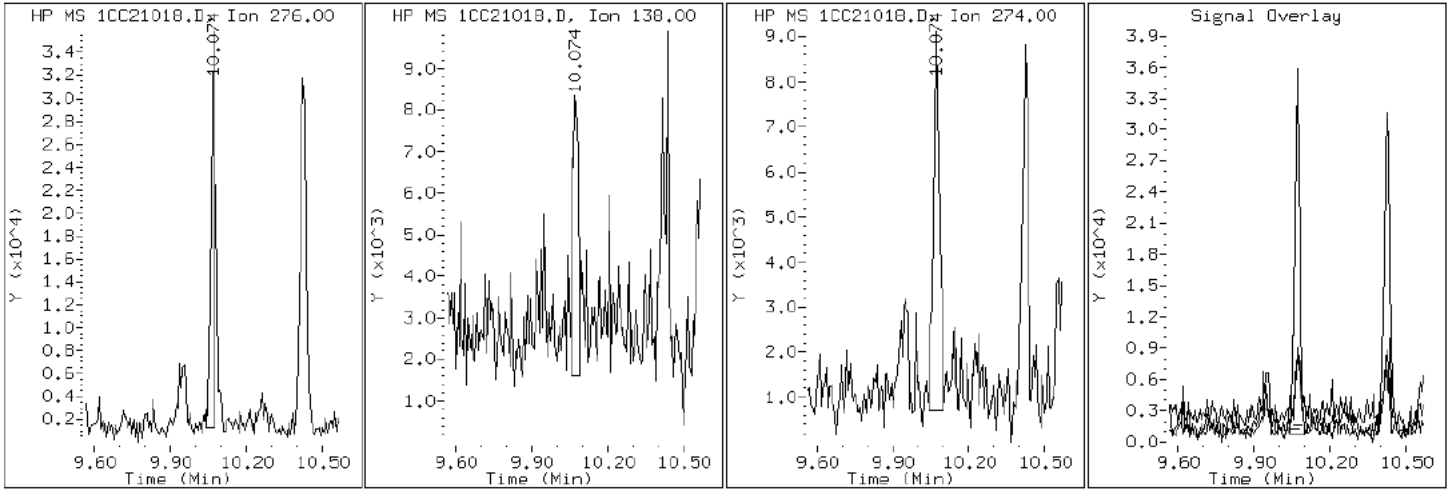
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

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



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

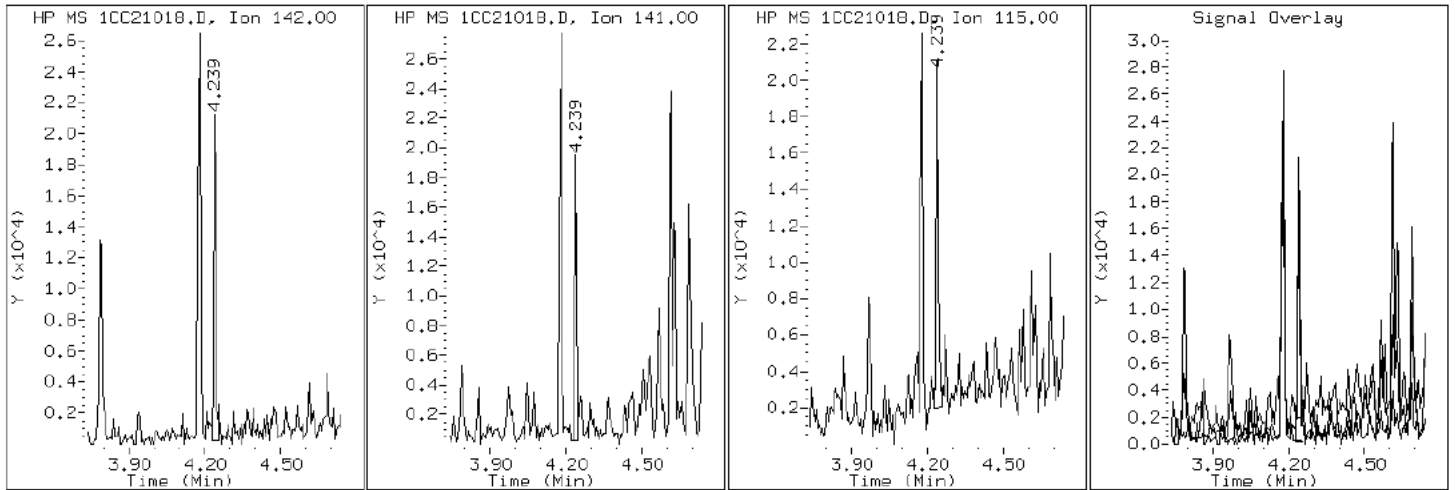
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

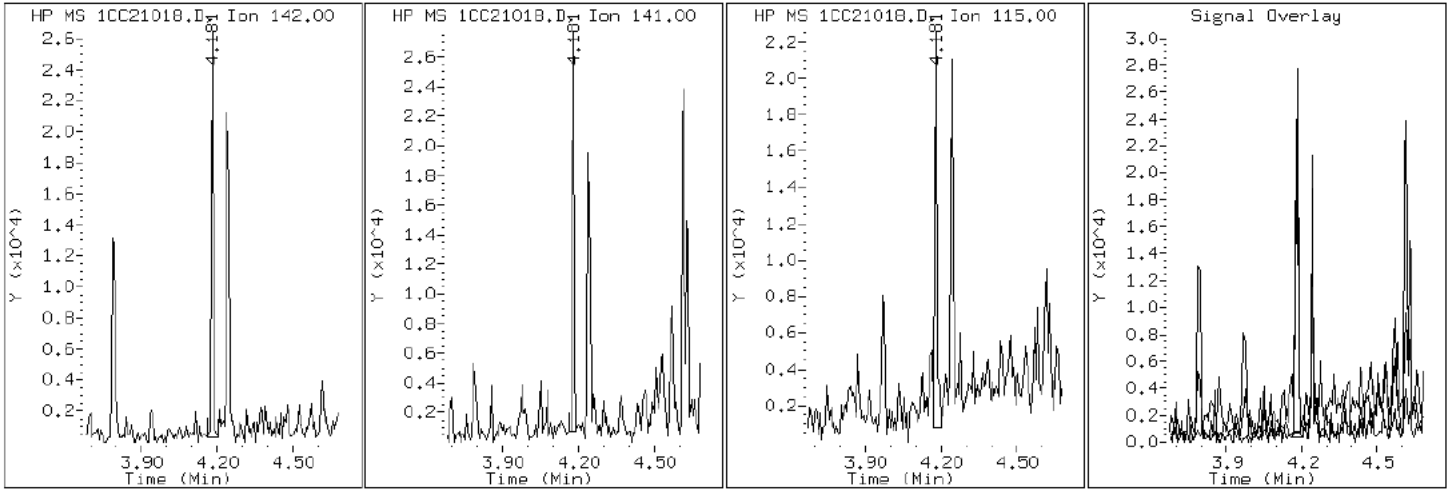
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

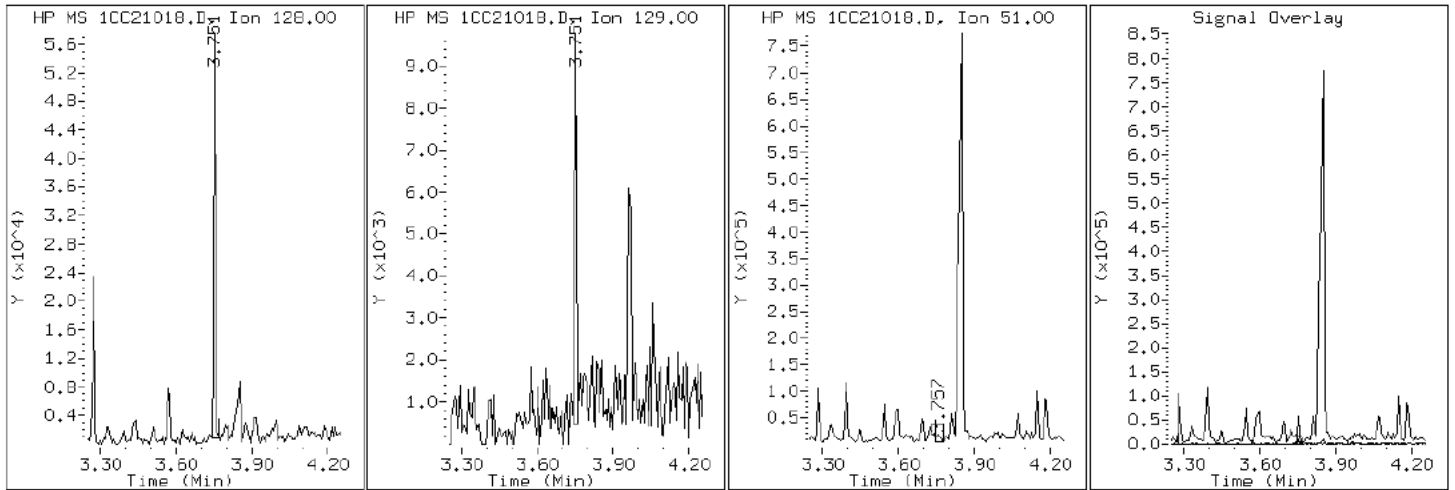
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

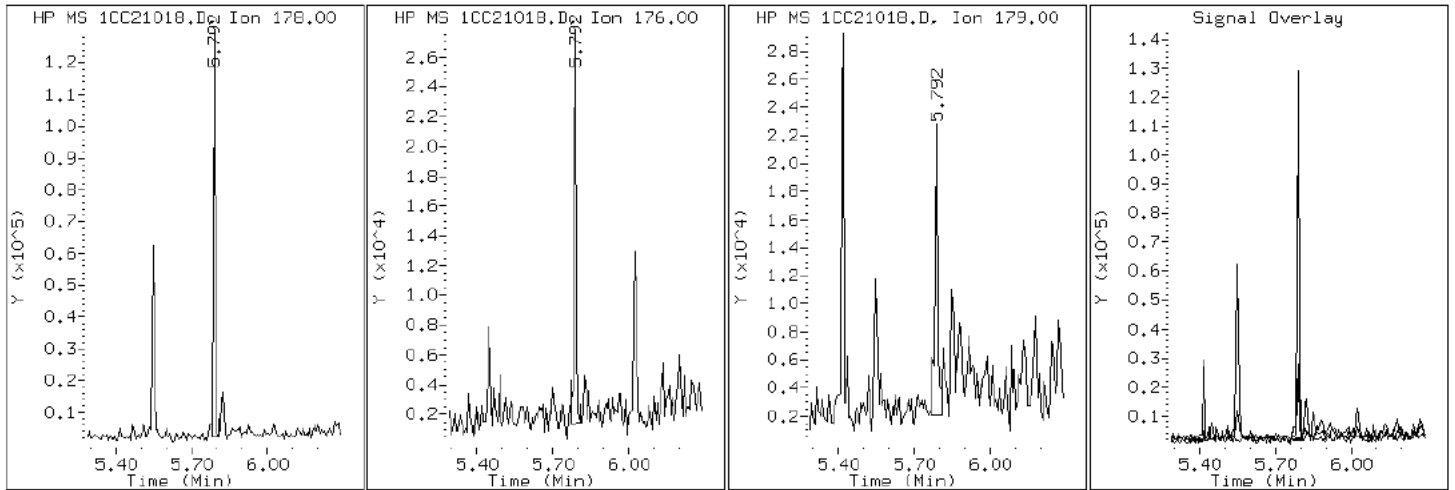
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21018.D

Date: 21-MAR-2013 16:09

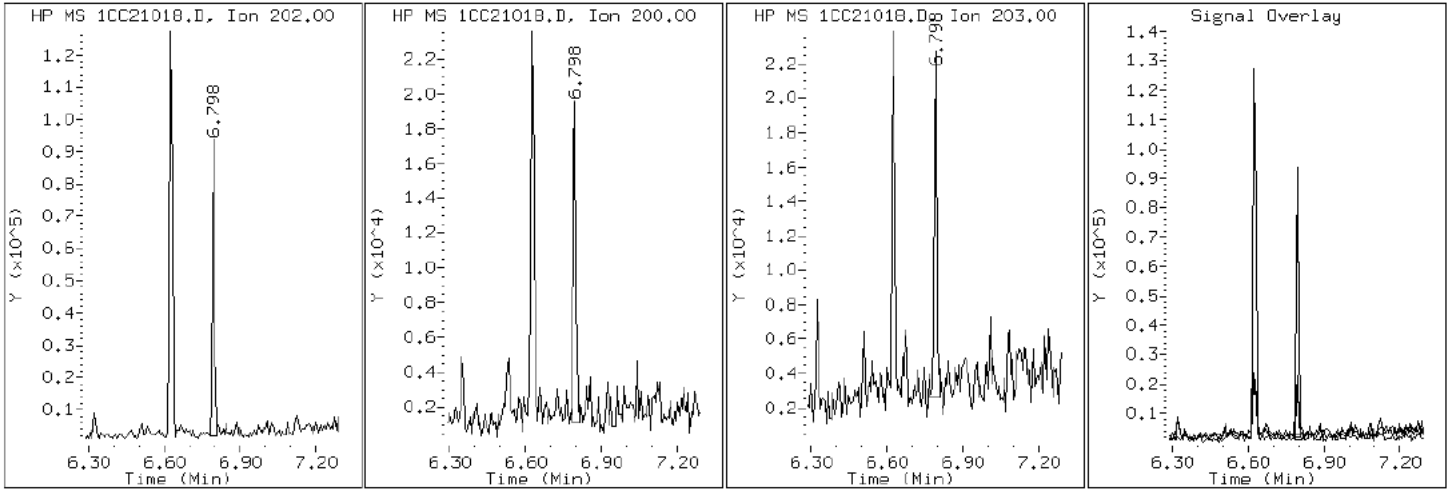
Client ID: CV1241C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-12-a

Operator: SCC

16 Pyrene

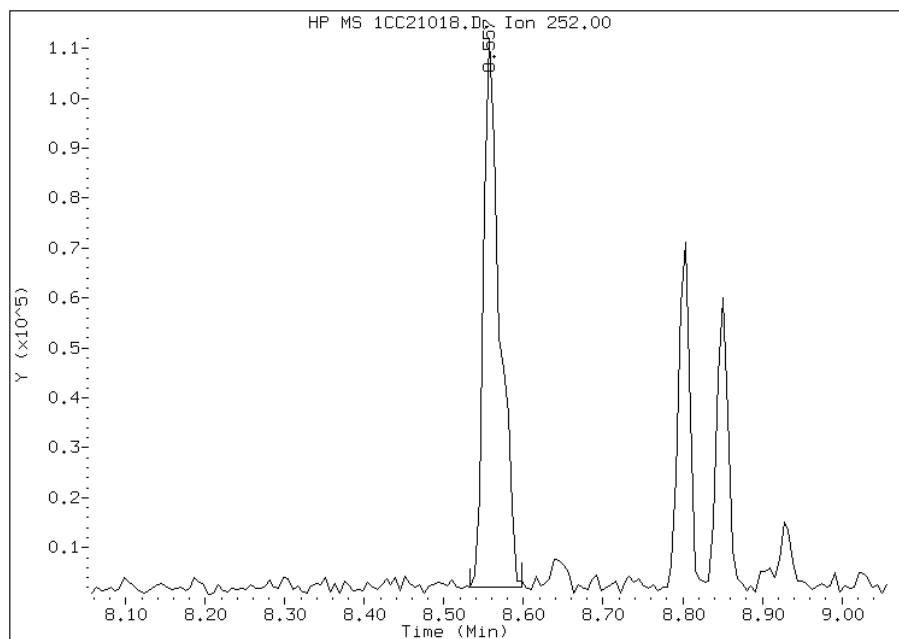


Manual Integration Report

Data File: 1CC21018.D
Inj. Date and Time: 21-MAR-2013 16:09
Instrument ID: BSMC5973.i
Client ID: CV1241C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

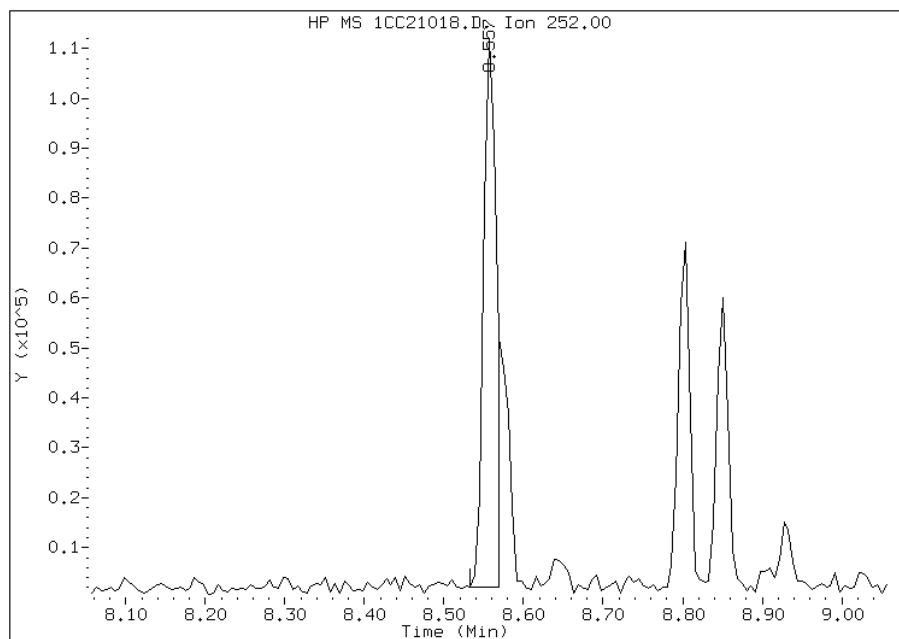
Processing Integration Results

RT: 8.56
Response: 156835
Amount: 4
Conc: 440



Manual Integration Results

RT: 8.56
Response: 122499
Amount: 3
Conc: 344



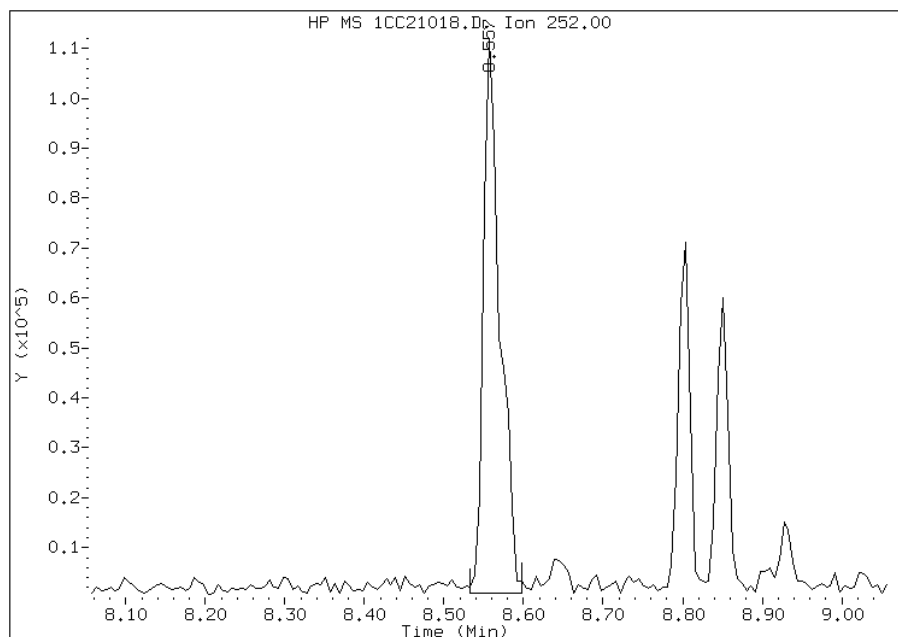
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21018.D
Inj. Date and Time: 21-MAR-2013 16:09
Instrument ID: BSMC5973.i
Client ID: CV1241C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

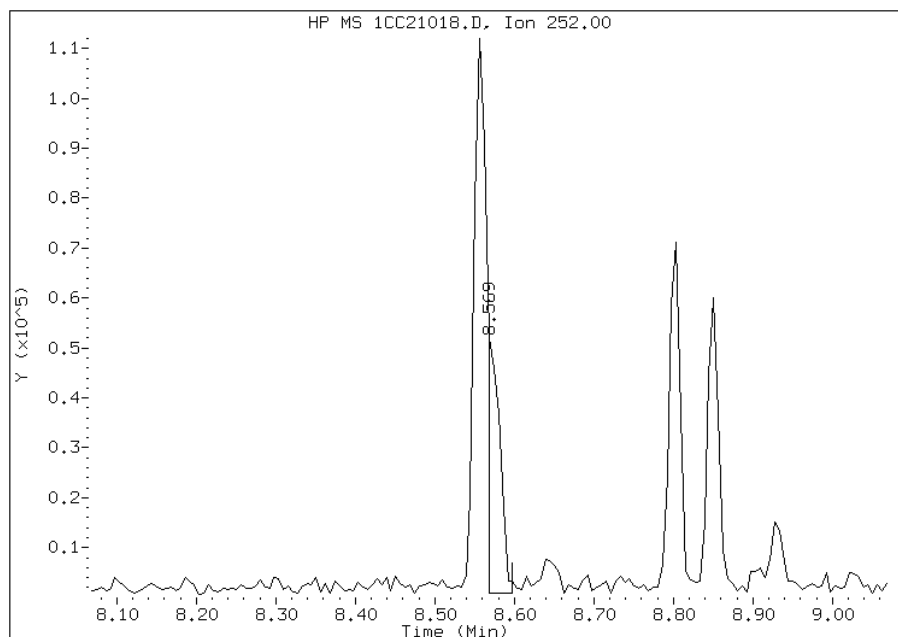
Processing Integration Results

RT: 8.56
Response: 161636
Amount: 4
Conc: 442



Manual Integration Results

RT: 8.57
Response: 54384
Amount: 1
Conc: 149



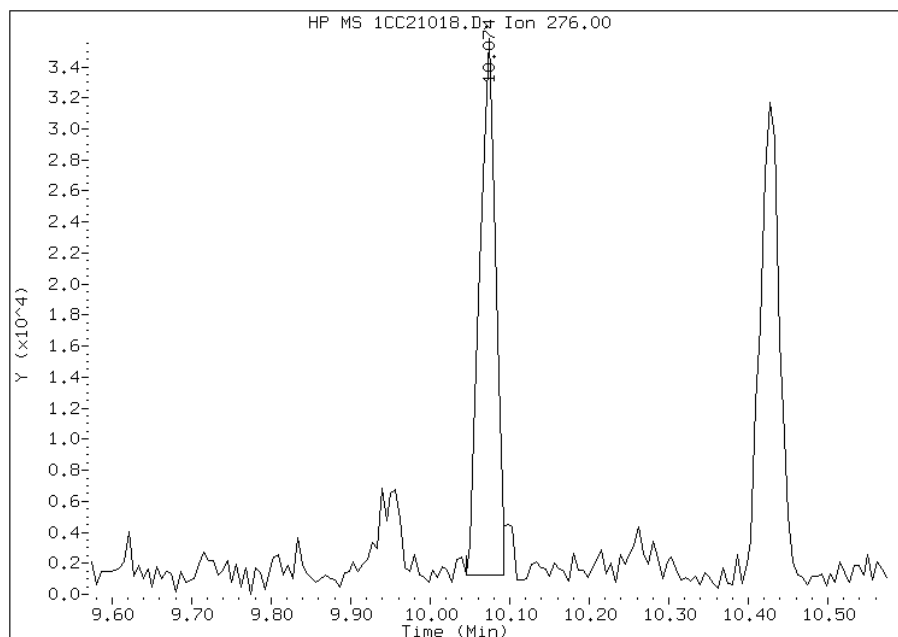
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21018.D
Inj. Date and Time: 21-MAR-2013 16:09
Instrument ID: BSMC5973.i
Client ID: CV1241C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

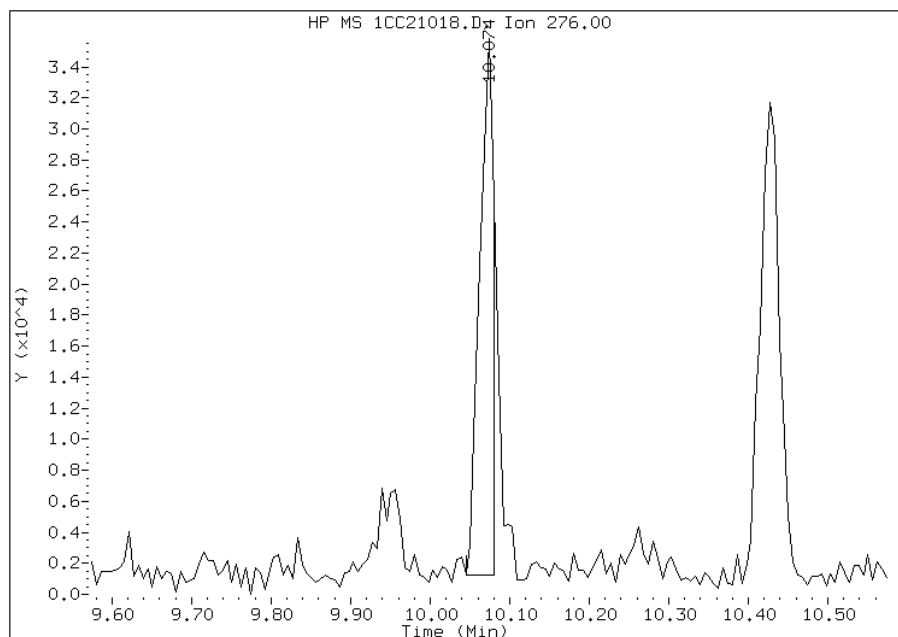
Processing Integration Results

RT: 10.07
Response: 47753
Amount: 1
Conc: 147



Manual Integration Results

RT: 10.07
Response: 42143
Amount: 1
Conc: 129



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV1241D-GS Lab Sample ID: 680-88348-13
 Matrix: Solid Lab File ID: 1CC21019.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 11:05
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.00(g) Date Analyzed: 03/21/2013 16:28
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 45.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	180	U	180	37
208-96-8	Acenaphthylene	74	U	74	9.2
120-12-7	Anthracene	10	J	15	7.7
56-55-3	Benzo[a]anthracene	38		15	7.2
50-32-8	Benzo[a]pyrene	14	J	19	9.6
205-99-2	Benzo[b]fluoranthene	27		22	11
191-24-2	Benzo[g,h,i]perylene	20	J	37	8.1
207-08-9	Benzo[k]fluoranthene	12	J	15	6.6
218-01-9	Chrysene	23		17	8.3
53-70-3	Dibenz(a,h)anthracene	9.5	J	37	7.5
206-44-0	Fluoranthene	32	J	37	7.4
86-73-7	Fluorene	37	U	37	7.5
193-39-5	Indeno[1,2,3-cd]pyrene	37	U	37	13
90-12-0	1-Methylnaphthalene	30	J	74	8.1
91-57-6	2-Methylnaphthalene	35	J	74	13
91-20-3	Naphthalene	44	J	74	8.1
85-01-8	Phenanthrene	37		15	7.2
129-00-0	Pyrene	37		37	6.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21019.D
 Lab Smp Id: 680-88348-A-13-A Client Smp ID: CV1241D-GS
 Inj Date : 21-MAR-2013 16:28
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-13-a
 Misc Info : 680-88348-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	45.688	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	958301	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	777056	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1418195	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	113842	5.31666	652.6025
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1458757	40.0000	
* 23 Perylene-d12	264		8.903	8.898	(1.000)	1405388	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	8944	0.35850	44.0050
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	4678	0.28110	34.5045
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	3737	0.24656	30.2646
11 Phenanthrene	178		5.792	5.792	(1.003)	12511	0.30509	37.4484
12 Anthracene	178		5.827	5.821	(1.009)	3342	0.08333	10.2285
13 Carbazole	167		5.933	5.933	(1.028)	3978	0.11158	13.6963(Q)
15 Fluoranthene	202		6.627	6.627	(1.148)	11591	0.25810	31.6811
16 Pyrene	202		6.798	6.792	(0.881)	11749	0.29970	36.7877

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	13102	0.31119	38.1978
19 Chrysene	228	7.739	7.733	(1.003)	7911	0.18776	23.0466
20 Benzo(b)fluoranthene	252	8.550	8.551	(0.960)	8196	0.22315	27.3914
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.963)	3833	0.10173	12.4873(Q)
22 Benzo(a)pyrene	252	8.845	8.845	(0.993)	4148	0.11627	14.2720(Q)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.133)	2551	0.07771	9.5388
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	5602	0.15957	19.5868(M)

QC Flag Legend

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

Data File: 1CC21019.D

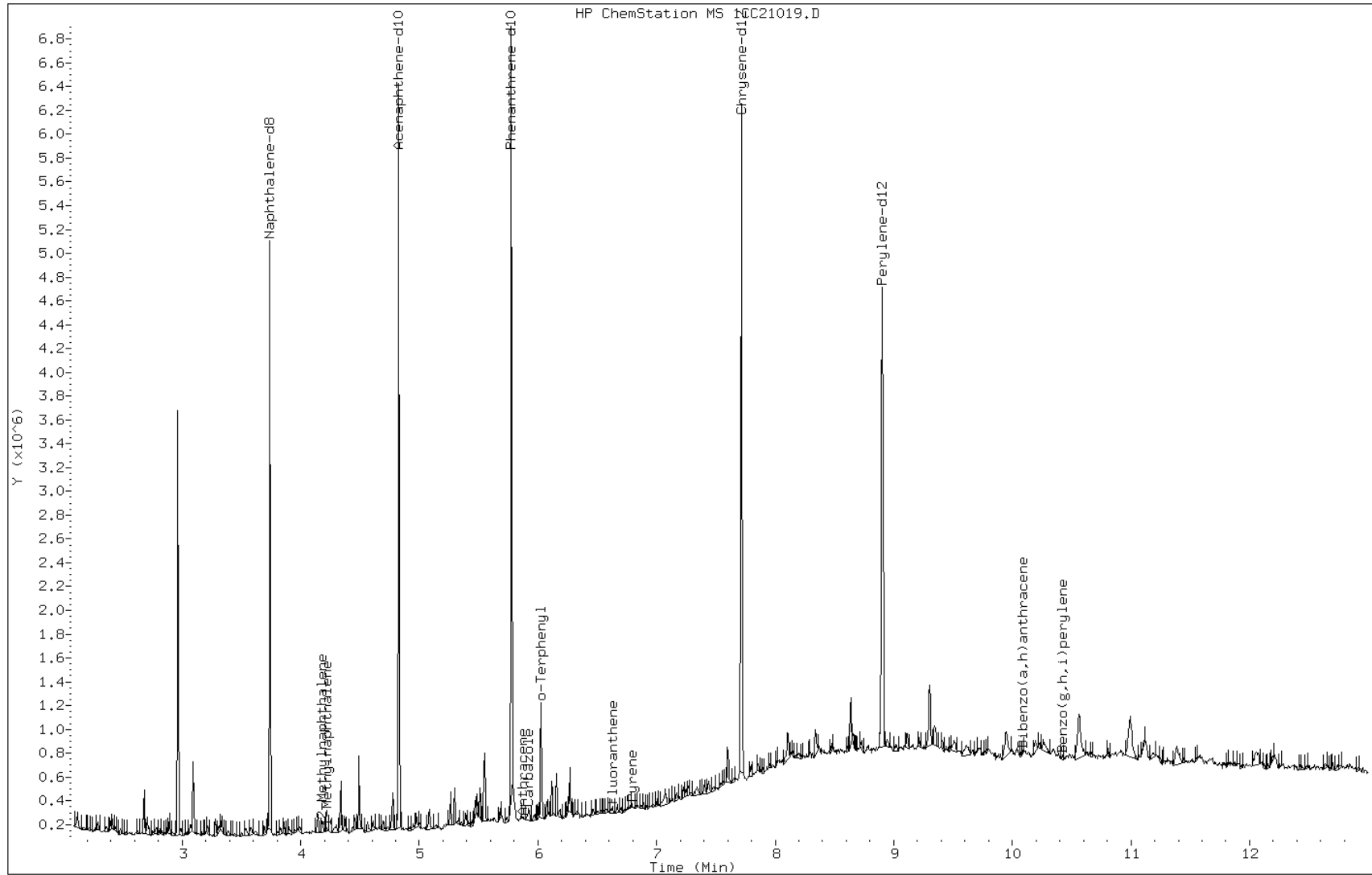
Date: 21-MAR-2013 16:28

Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

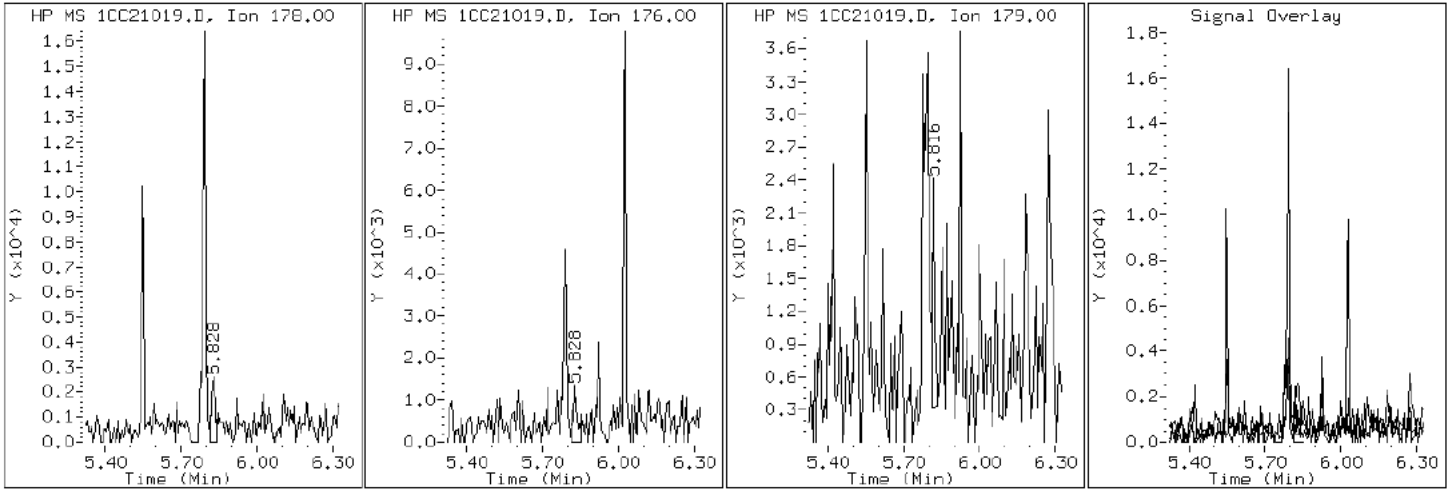
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

12 Anthracene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

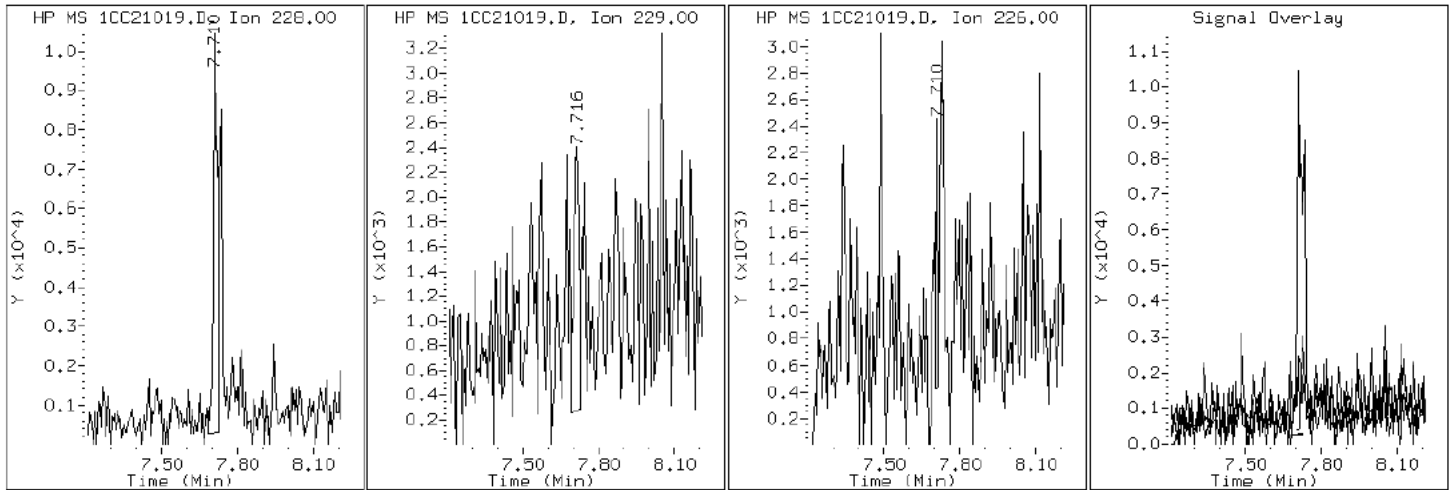
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

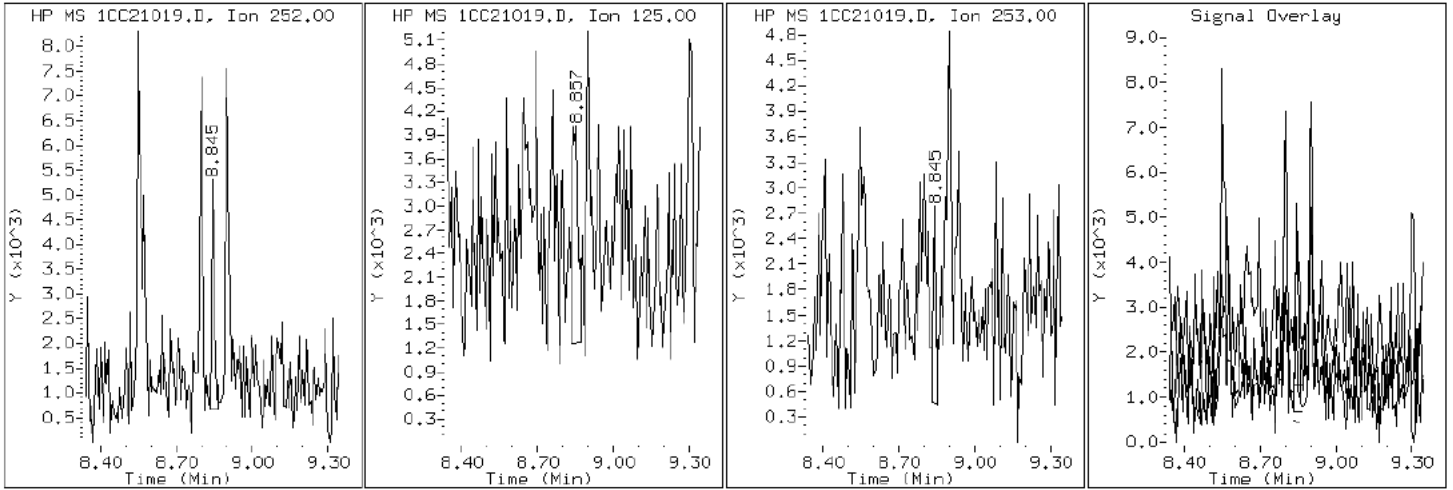
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

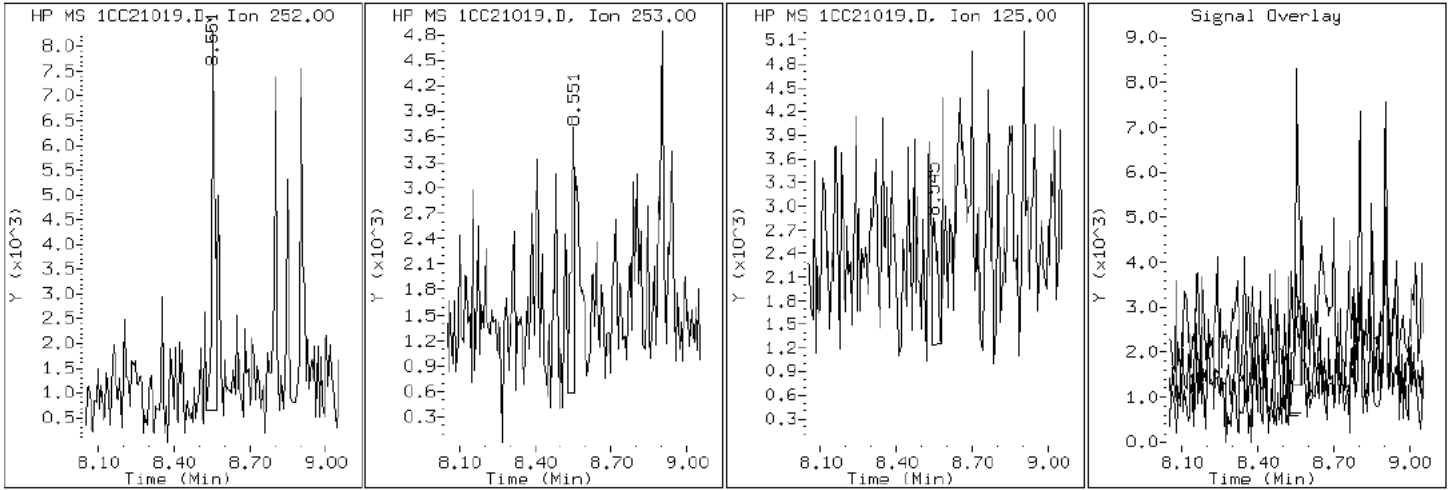
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

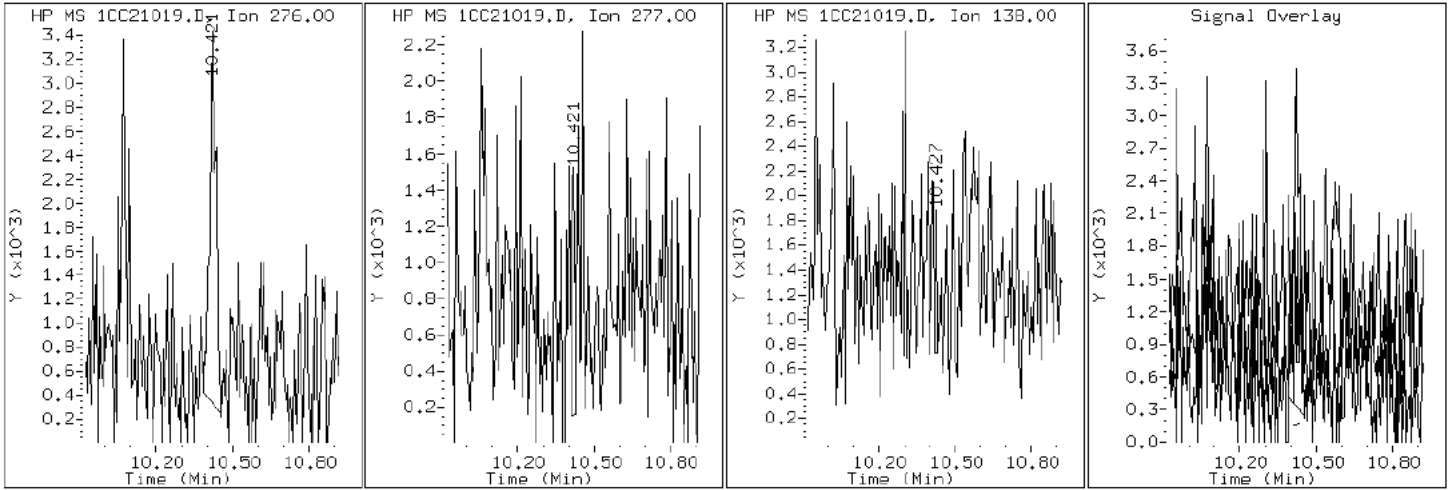
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

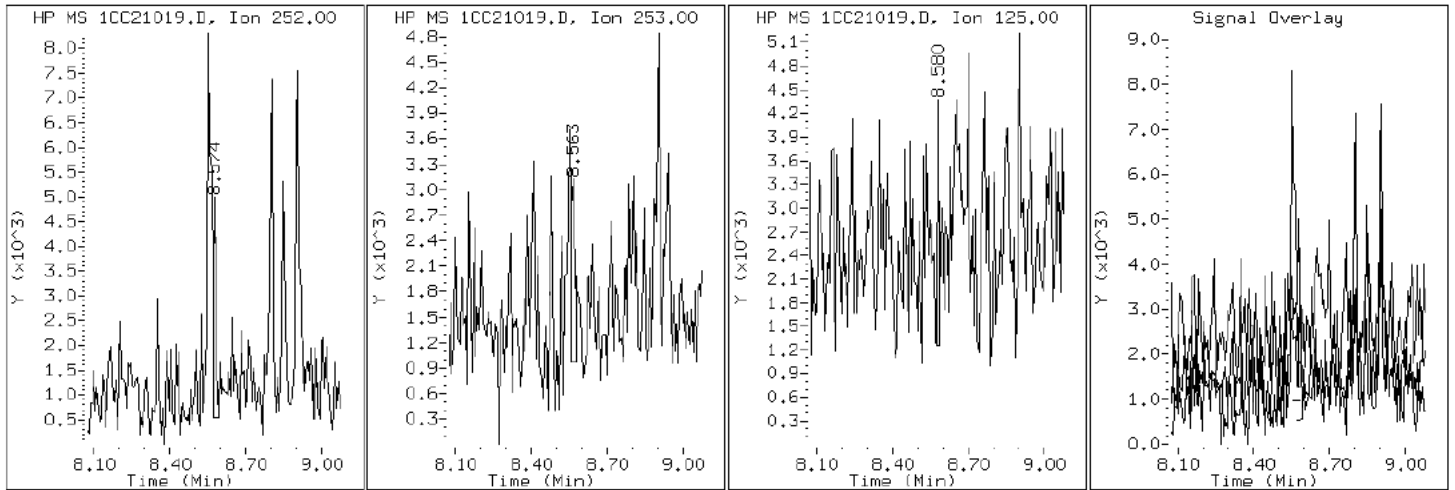
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

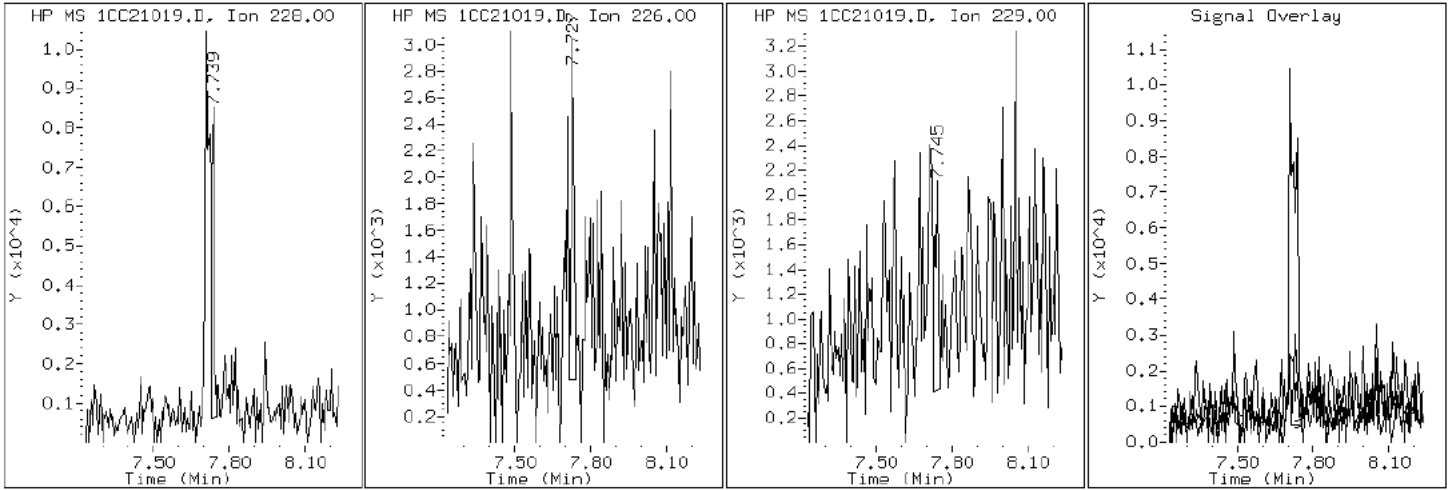
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

19 Chrysene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

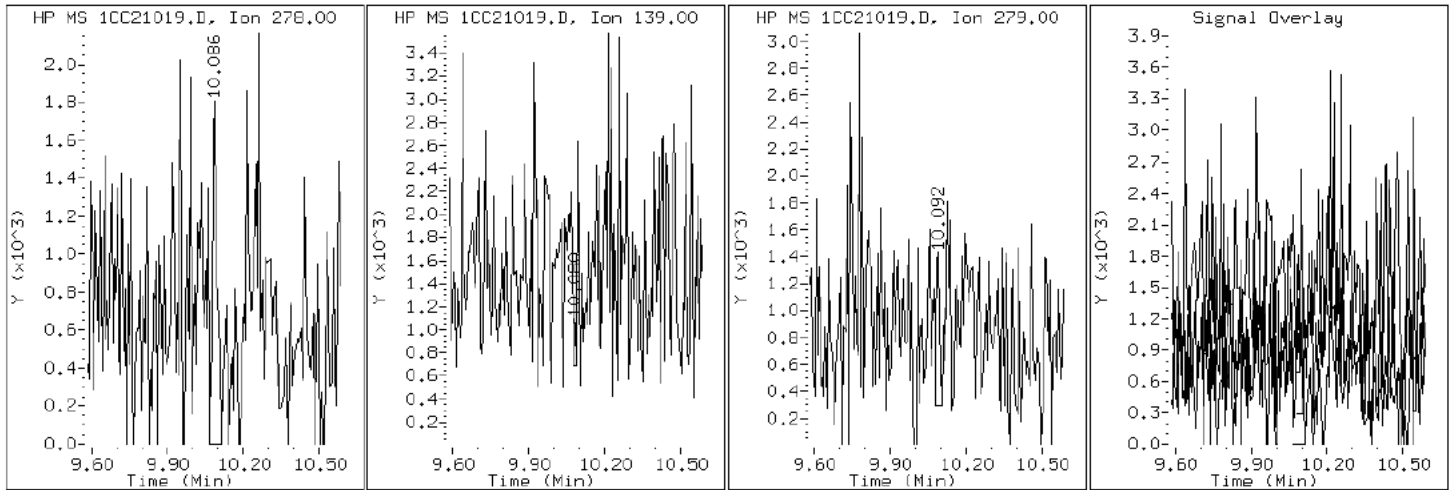
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

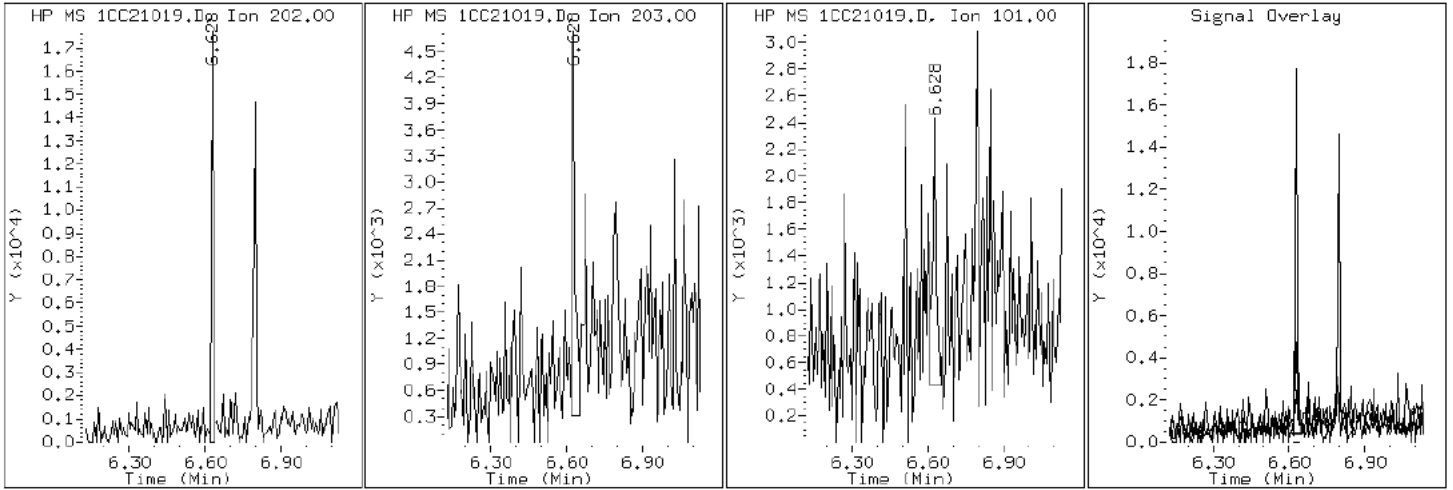
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

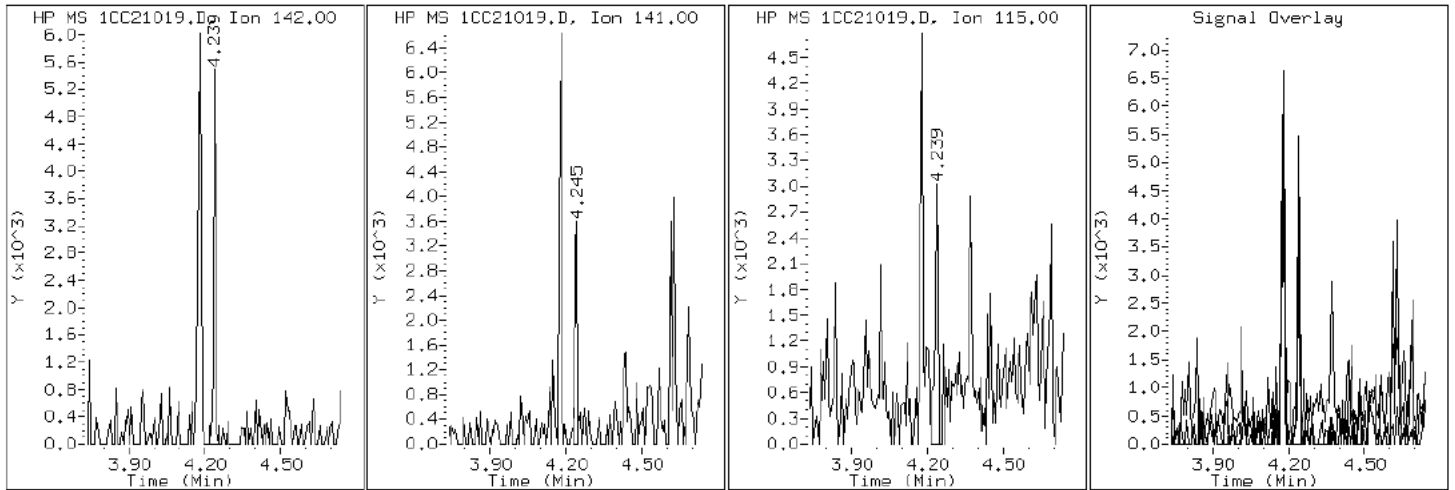
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

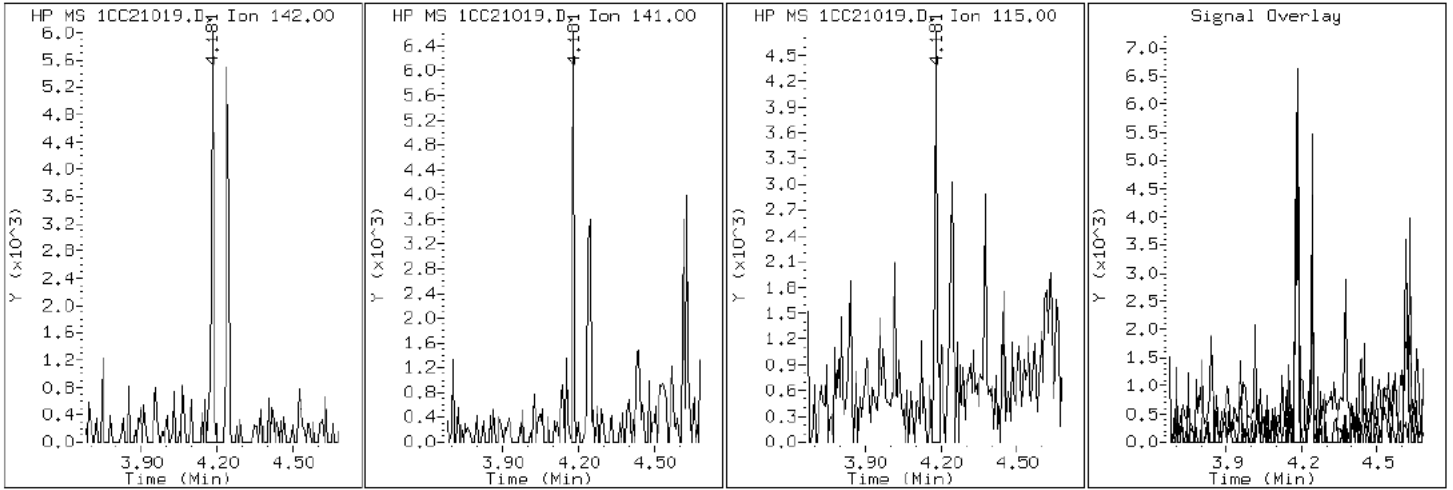
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

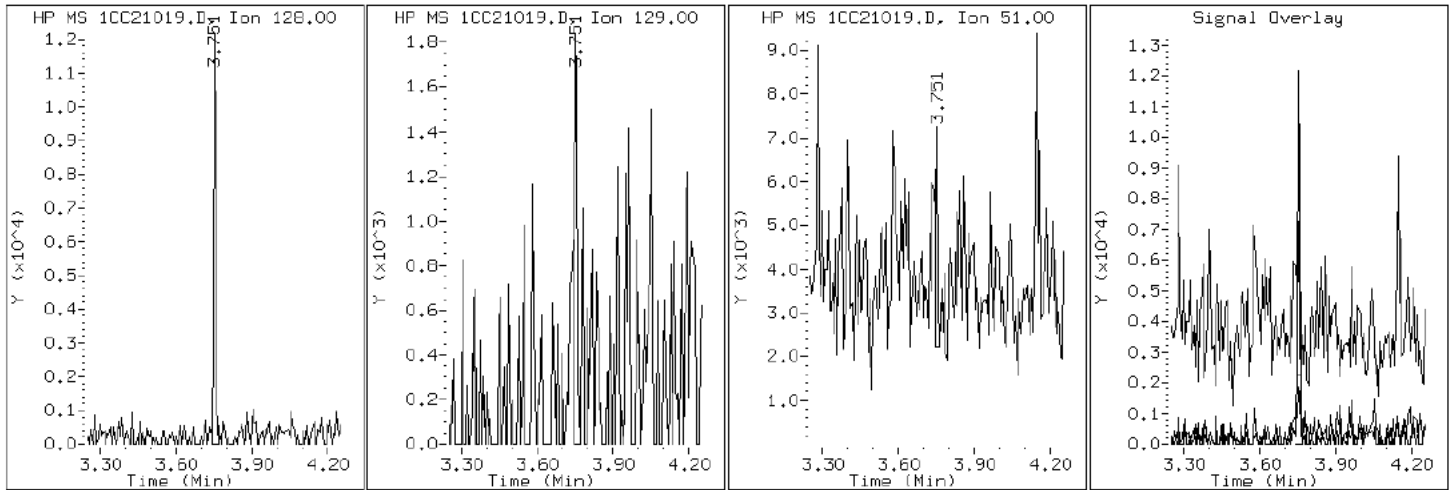
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

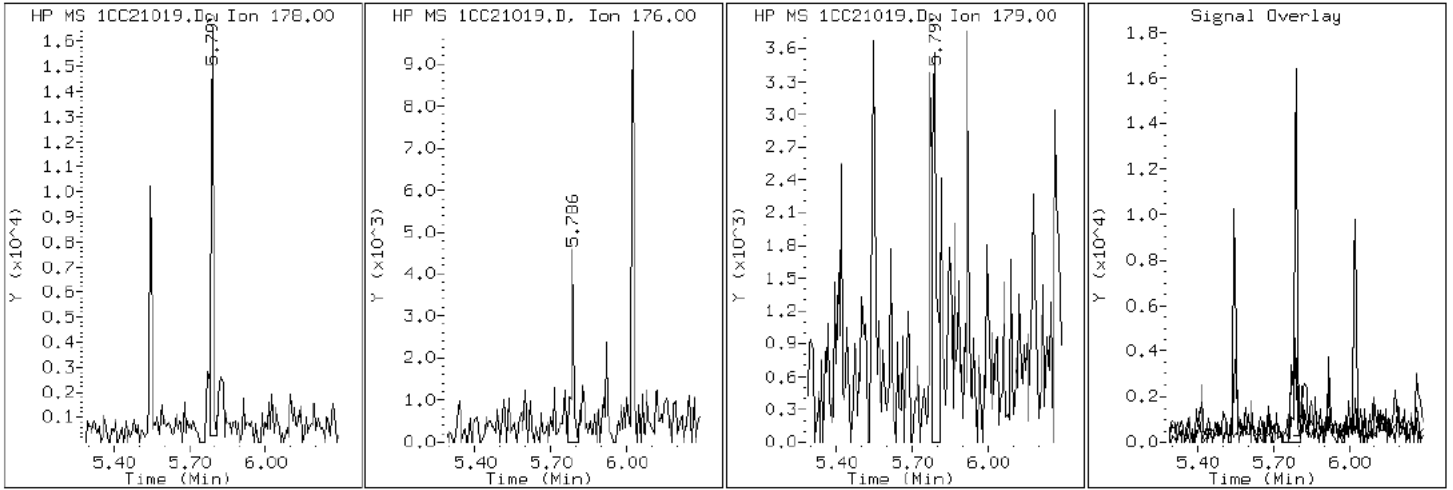
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21019.D

Date: 21-MAR-2013 16:28

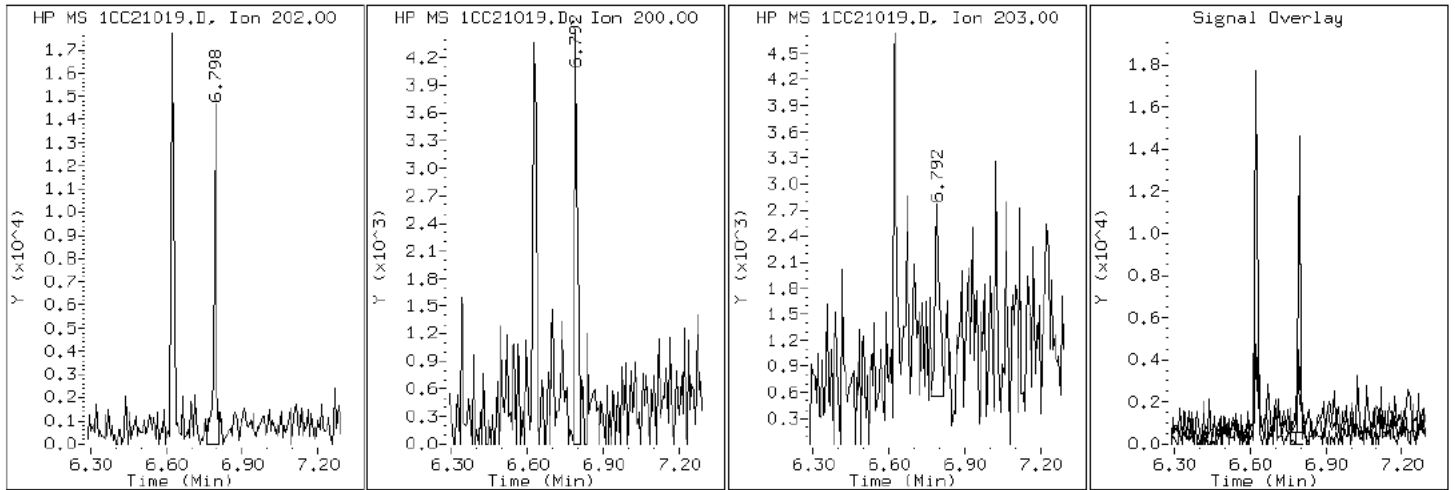
Client ID: CV1241D-GS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-13-a

Operator: SCC

16 Pyrene

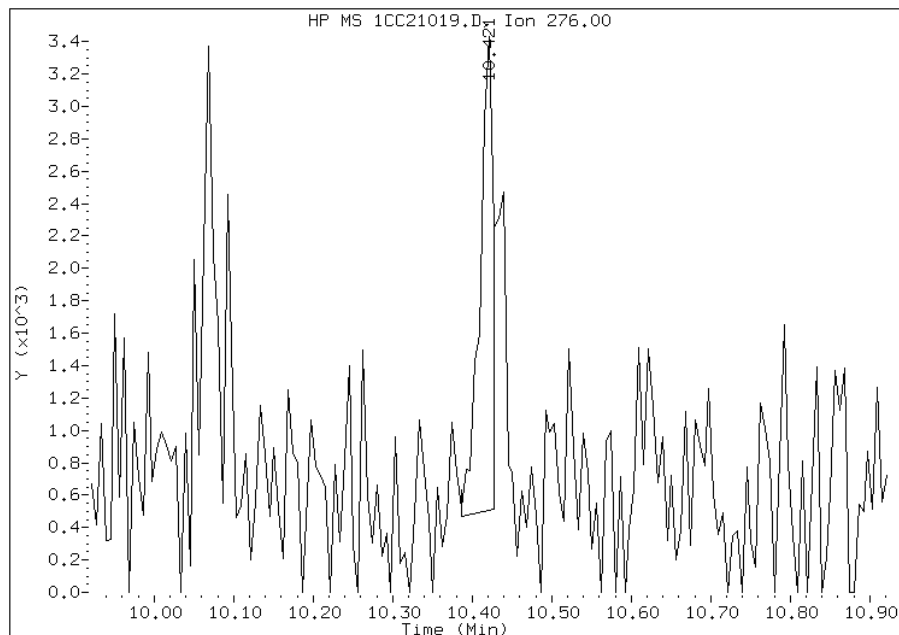


Manual Integration Report

Data File: 1CC21019.D
Inj. Date and Time: 21-MAR-2013 16:28
Instrument ID: BSMC5973.i
Client ID: CV1241D-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/25/2013

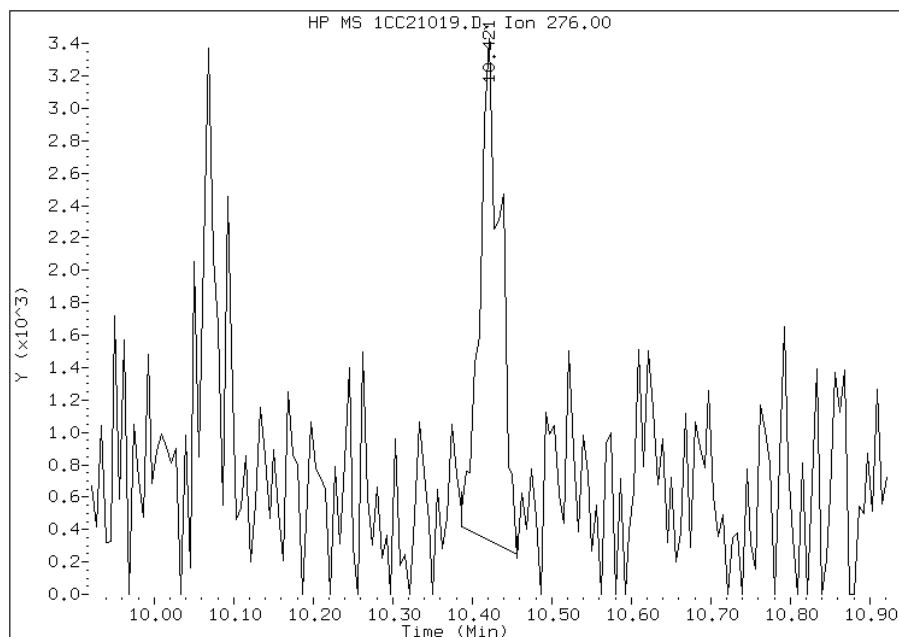
Processing Integration Results

RT: 10.42
Response: 3435
Amount: 0
Conc: 12



Manual Integration Results

RT: 10.42
Response: 5602
Amount: 0
Conc: 20



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:22
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0170A-CS Lab Sample ID: 680-88348-14
 Matrix: Solid Lab File ID: 1CC21020.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:40
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.00(g) Date Analyzed: 03/21/2013 16:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	36	J	53	6.6
120-12-7	Anthracene	34		11	5.6
56-55-3	Benzo[a]anthracene	200		11	5.2
50-32-8	Benzo[a]pyrene	150		14	6.9
205-99-2	Benzo[b]fluoranthene	310		16	8.1
191-24-2	Benzo[g,h,i]perylene	130		27	5.8
207-08-9	Benzo[k]fluoranthene	140		11	4.8
218-01-9	Chrysene	320		12	6.0
53-70-3	Dibenz(a,h)anthracene	43		27	5.4
206-44-0	Fluoranthene	260		27	5.3
86-73-7	Fluorene	25	J	27	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	110		27	9.4
90-12-0	1-Methylnaphthalene	110		53	5.8
91-57-6	2-Methylnaphthalene	110		53	9.4
91-20-3	Naphthalene	160		53	5.8
85-01-8	Phenanthrene	270		11	5.2
129-00-0	Pyrene	270		27	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032113.b\1CC21020.D
 Lab Smp Id: 680-88348-A-14-A Client Smp ID: FM0170A-CS
 Inj Date : 21-MAR-2013 16:46
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-14-a
 Misc Info : 680-88348-A-14-A
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	24.715	% 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		3.739	3.739	(1.000)	965959	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	770439	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1382544	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	114717	5.49567	486.6538	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1443694	40.0000		
* 23 Perylene-d12	264		8.904	8.898	(1.000)	1351543	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	44349	1.76355	156.1662	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	20065	1.19616	105.9224	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	19506	1.27677	113.0610	
5 Acenaphthylene	152		4.739	4.739	(0.982)	12493	0.40220	35.6156	
9 Fluorene	166		5.169	5.162	(1.071)	6794	0.27825	24.6398(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	120165	3.00585	266.1744	
12 Anthracene	178		5.827	5.821	(1.009)	15149	0.38747	34.3112	
13 Carbazole	167		5.933	5.933	(1.028)	20050	0.57690	51.0856(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.627	6.627	(1.148)	130535	2.98163	264.0300
16 Pyrene	202	6.798	6.792	(0.881)	116229	2.99581	265.2854
17 Benzo(a)anthracene	228	7.710	7.709	(0.999)	94222	2.26127	200.2401
19 Chrysene	228	7.739	7.733	(1.003)	149765	3.59156	318.0409
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.961)	124846	3.53463	312.9989(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	59265	1.63563	144.8387(QM)
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	57800	1.68473	149.1867
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	40227	1.24641	110.3725(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	15284	0.48415	42.8725(M)
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.171)	49918	1.47855	130.9285

QC Flag Legend

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

Data File: 1CC21020.D

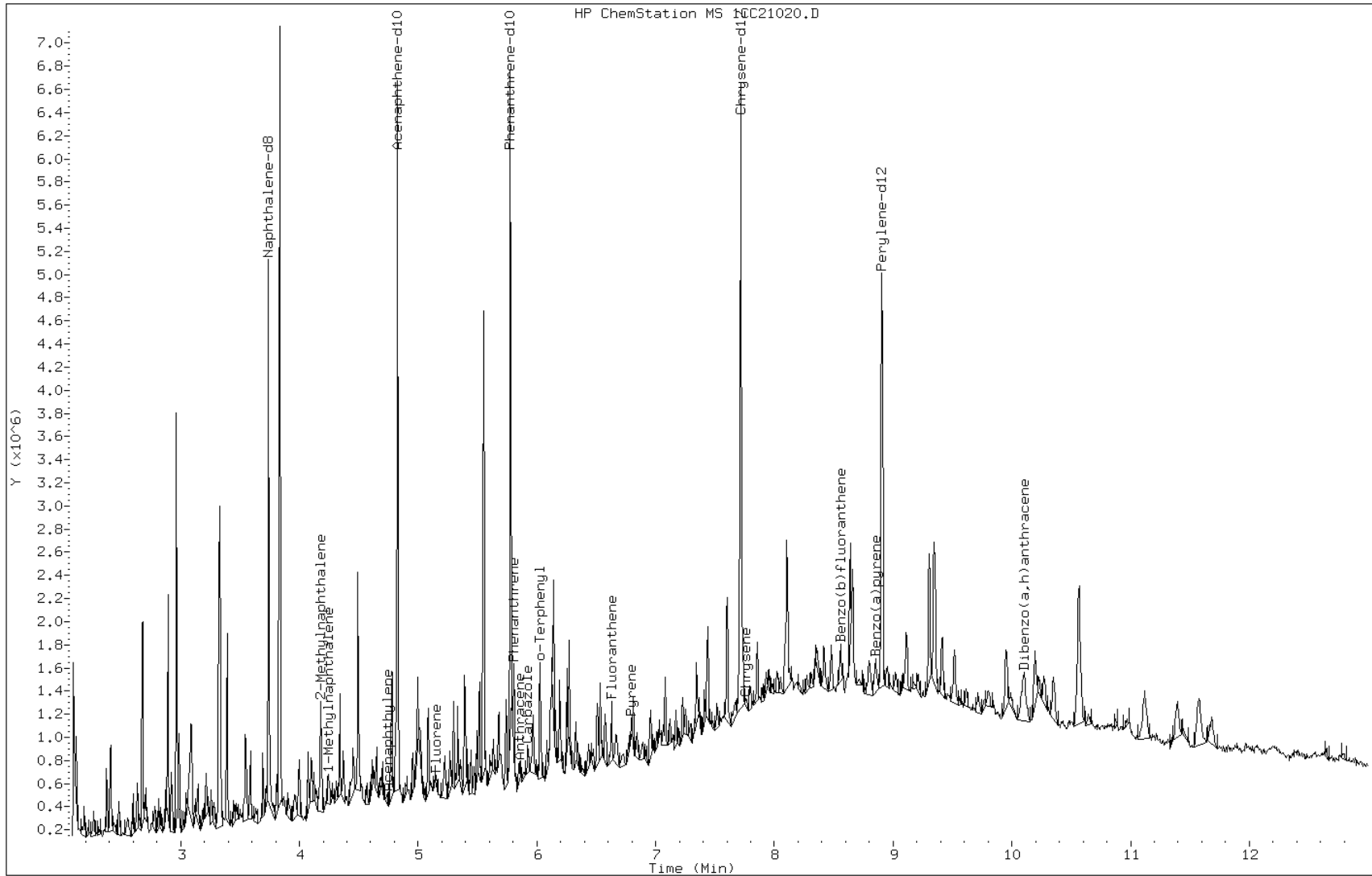
Date: 21-MAR-2013 16:46

Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

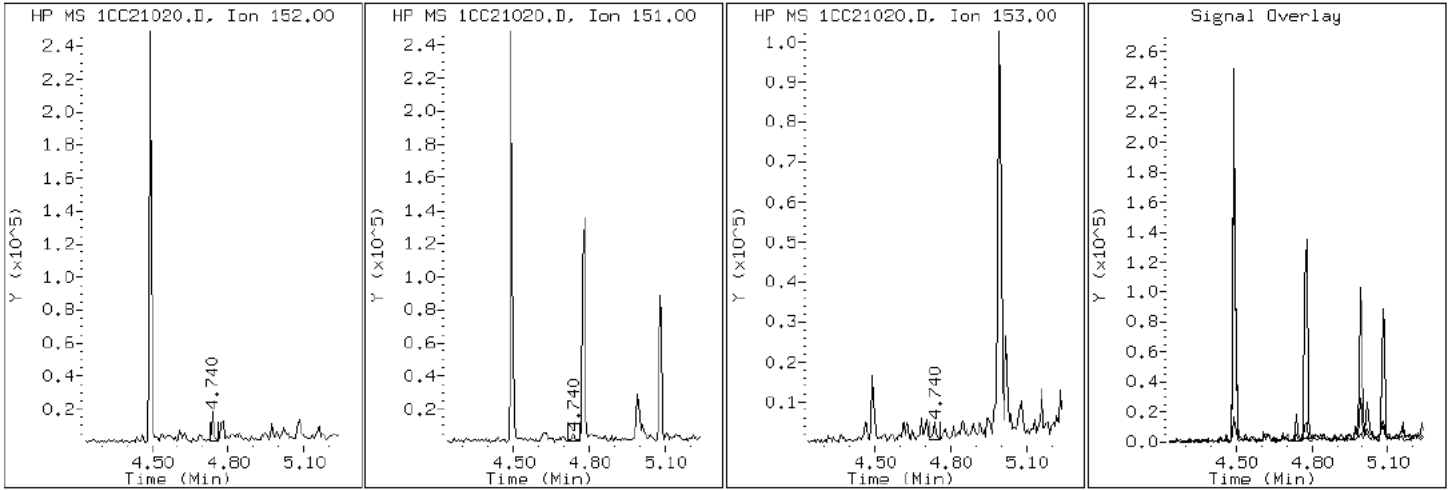
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

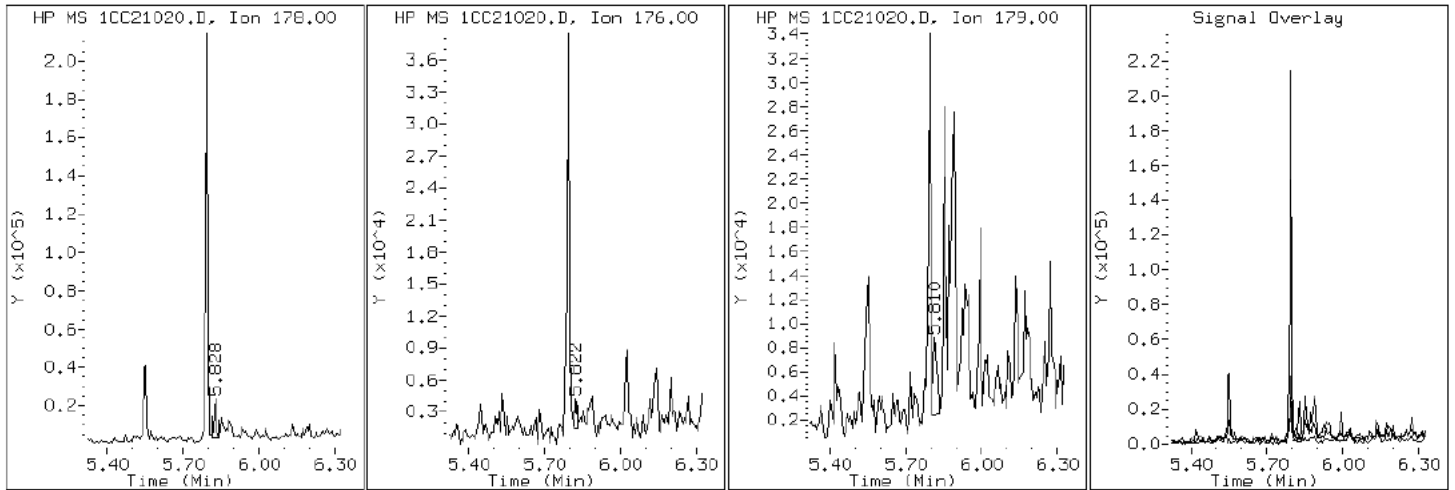
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

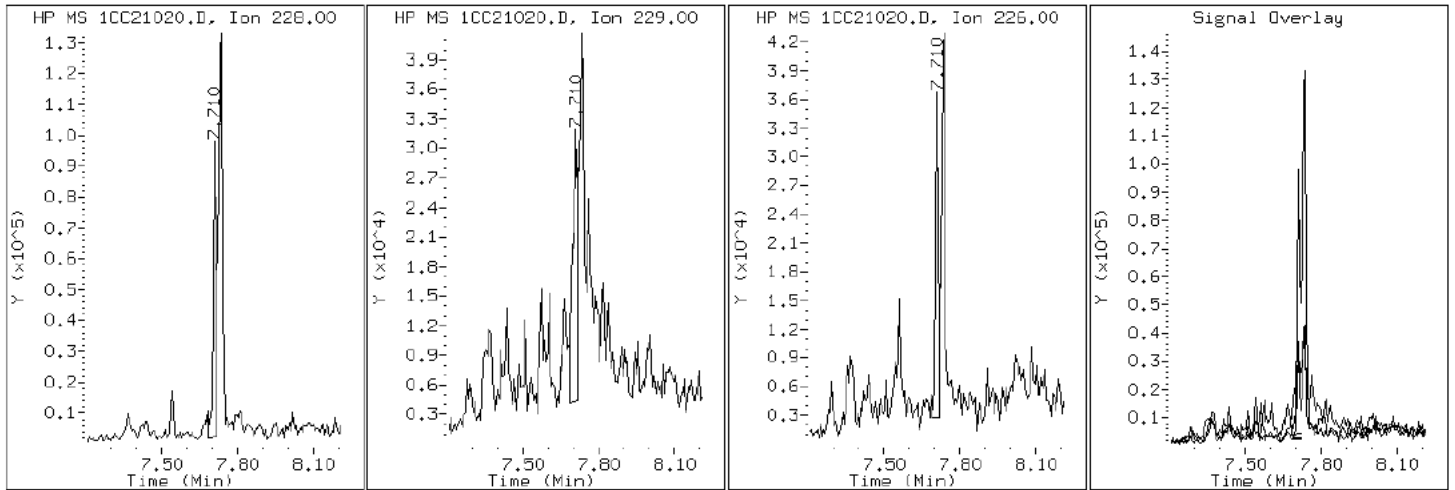
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

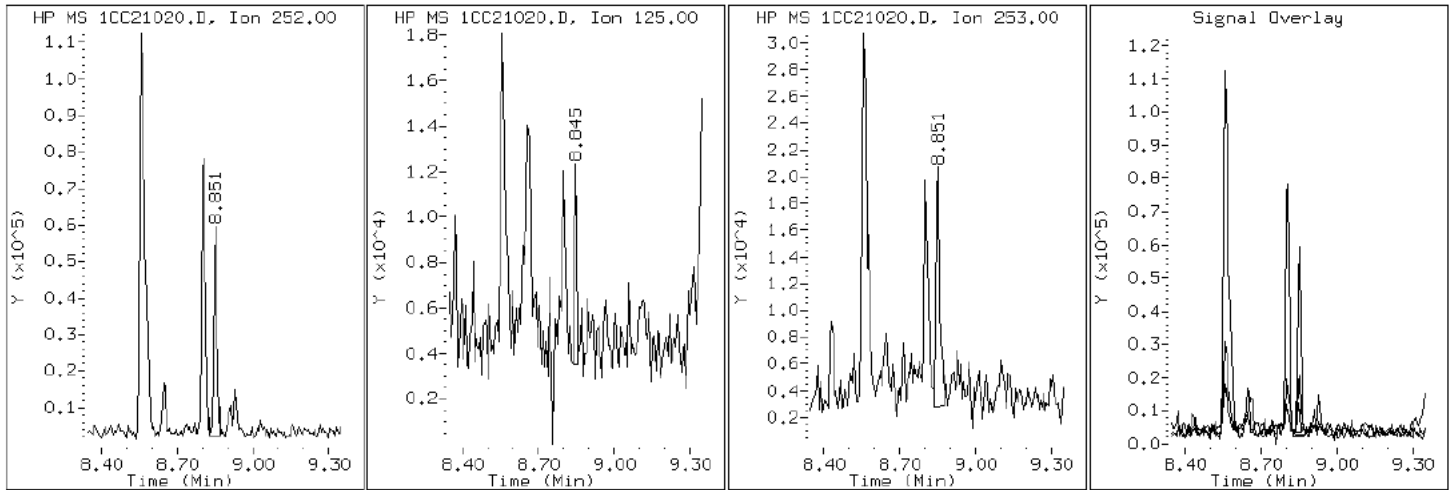
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

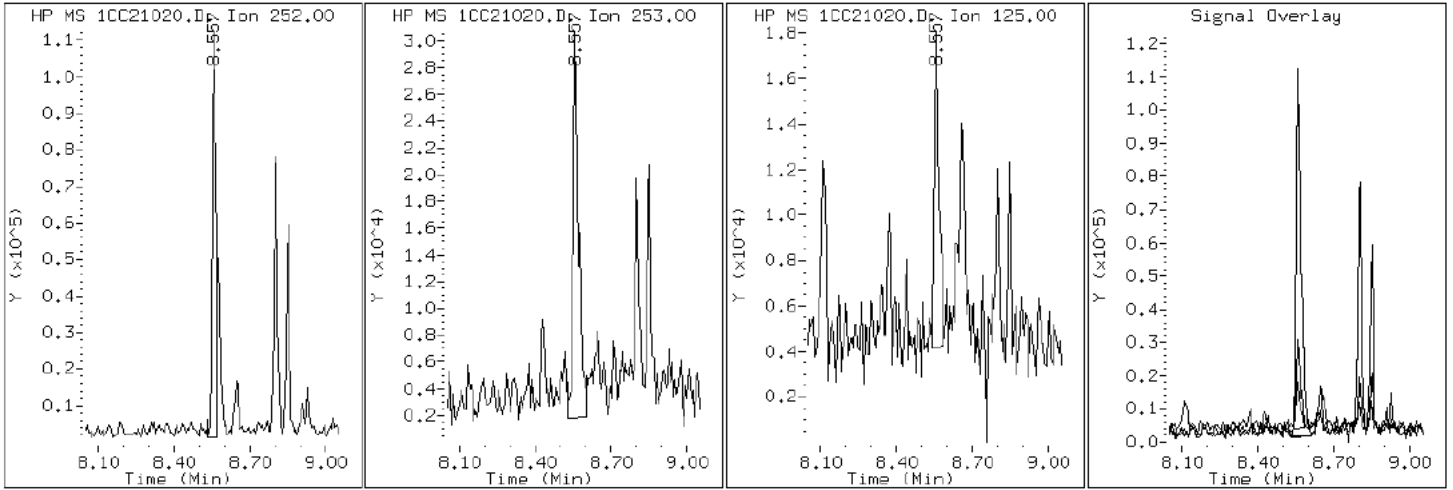
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

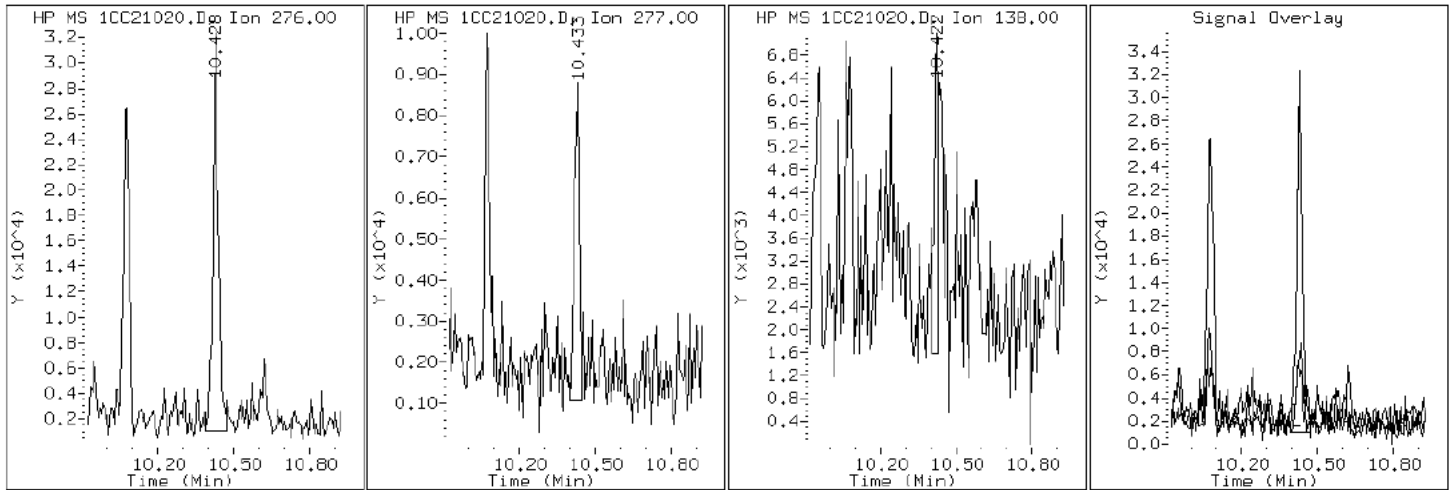
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

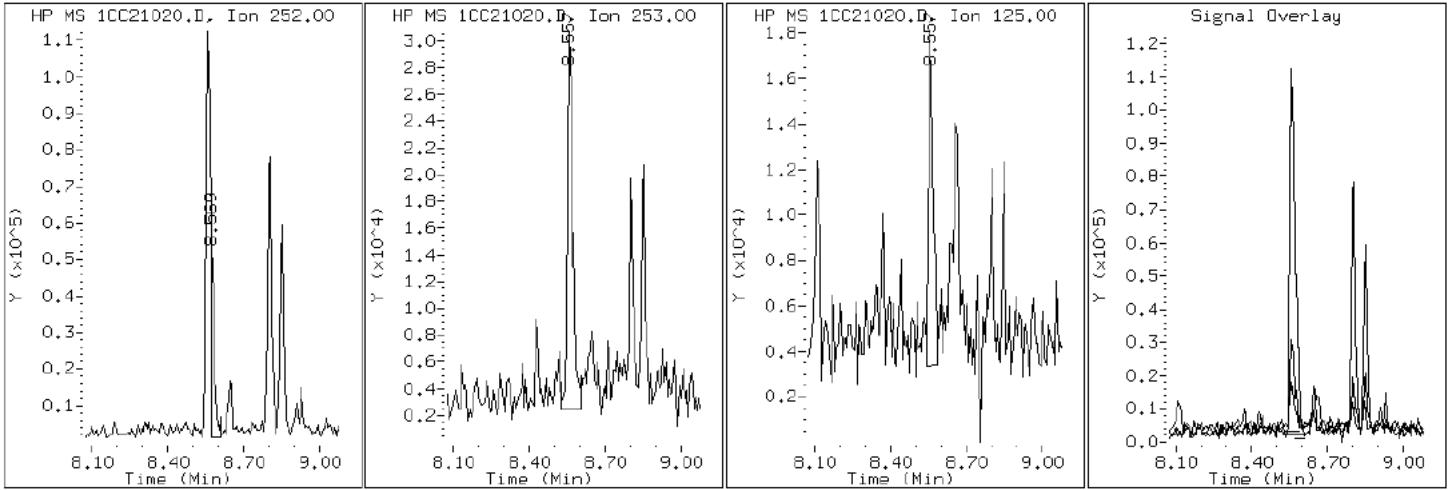
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

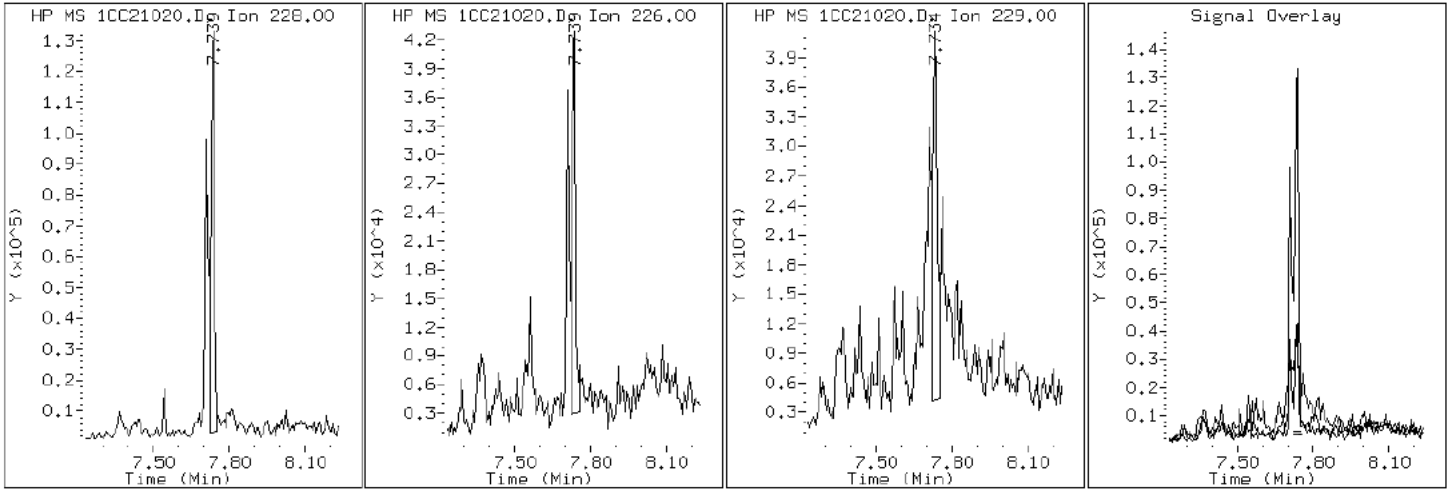
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

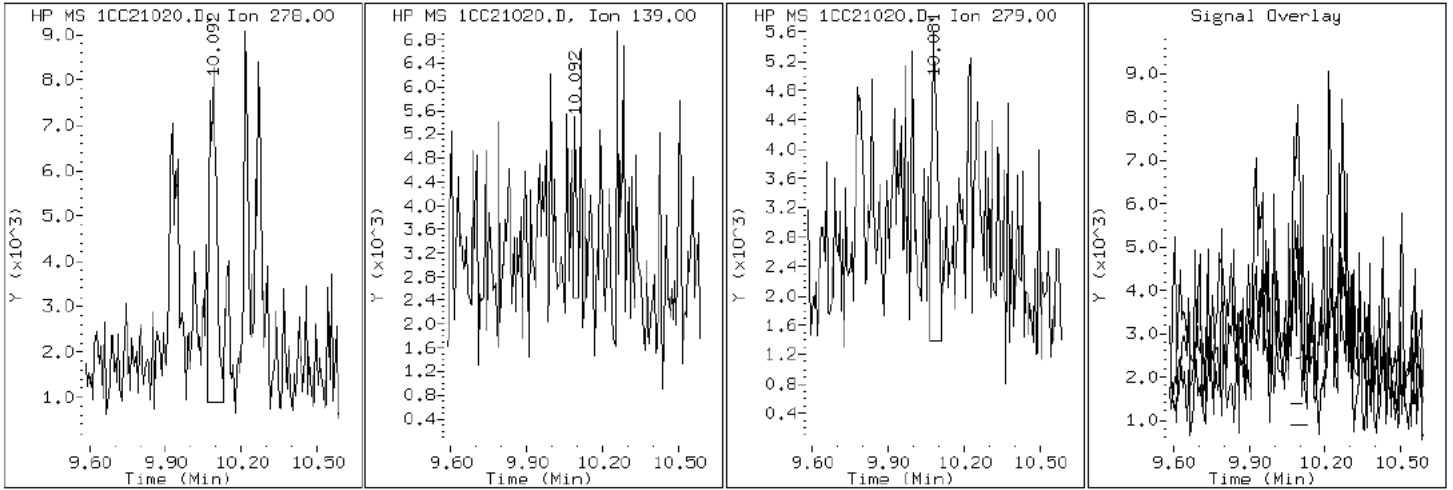
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

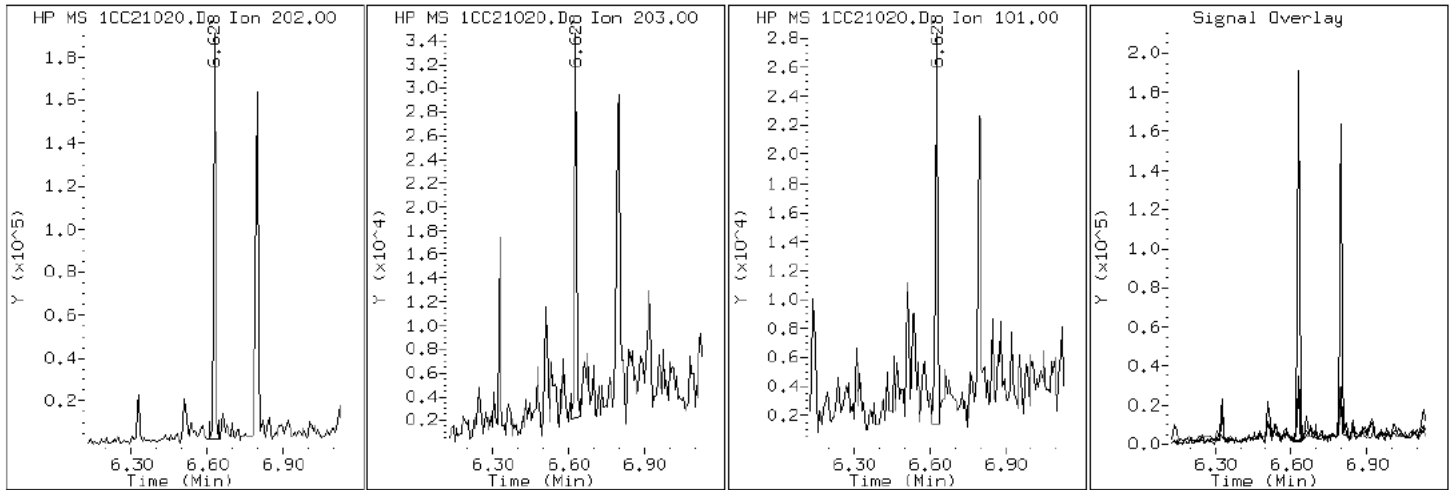
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

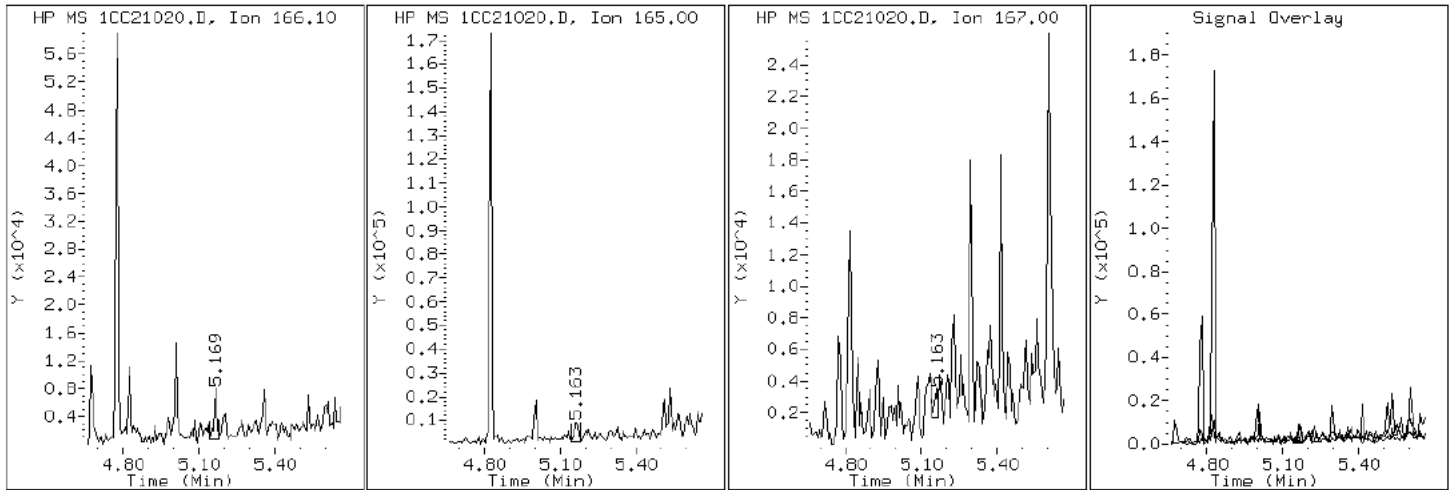
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

9 Fluorene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

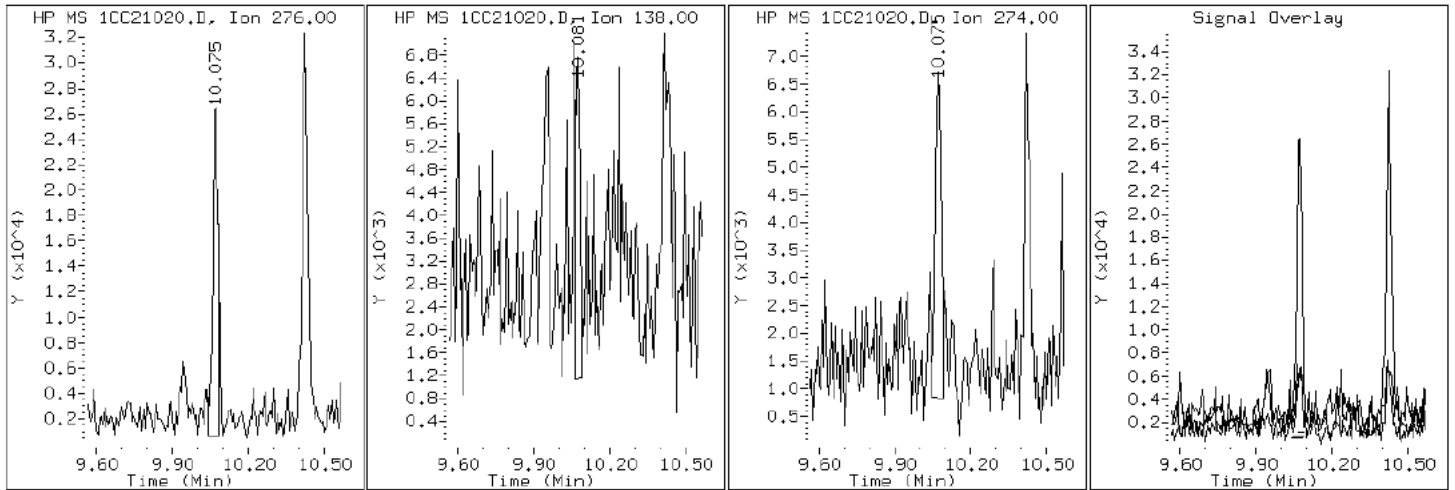
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

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



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

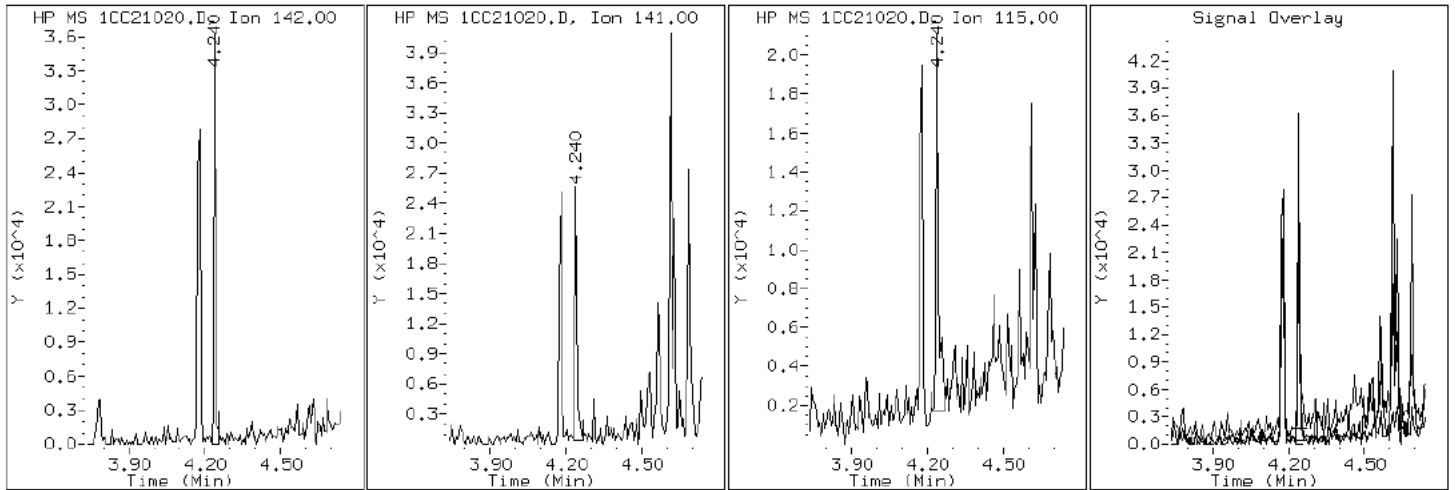
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

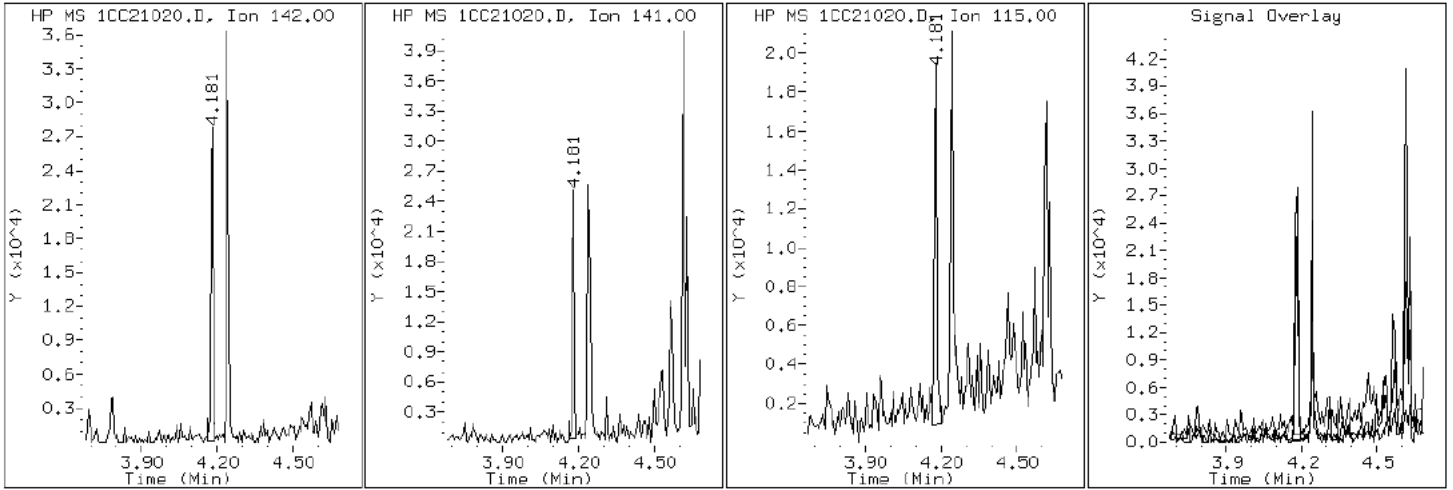
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

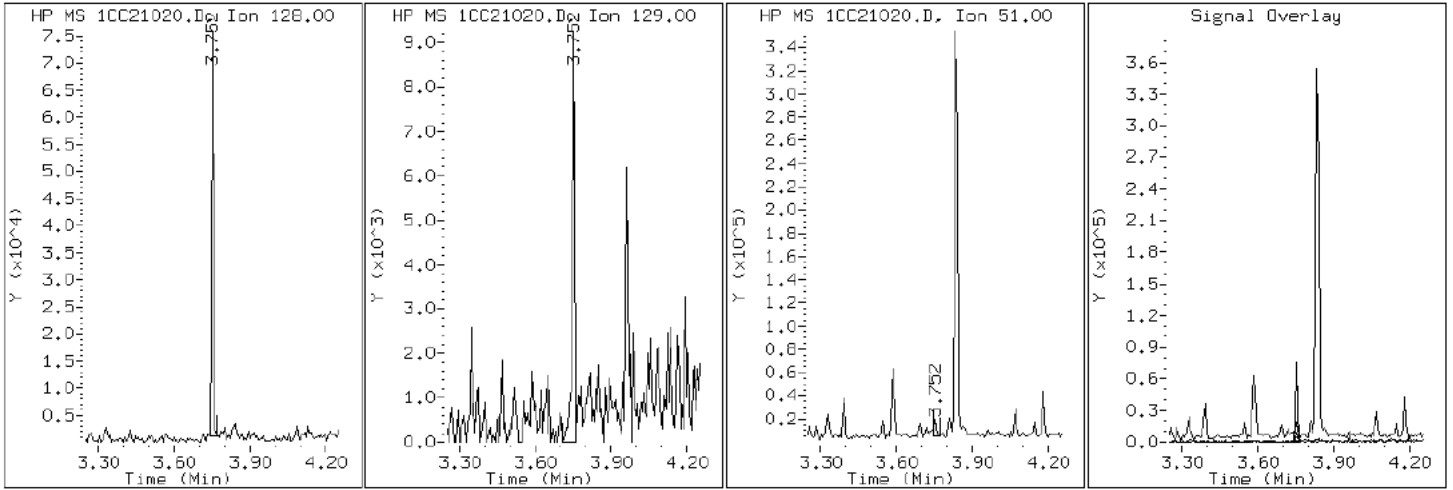
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

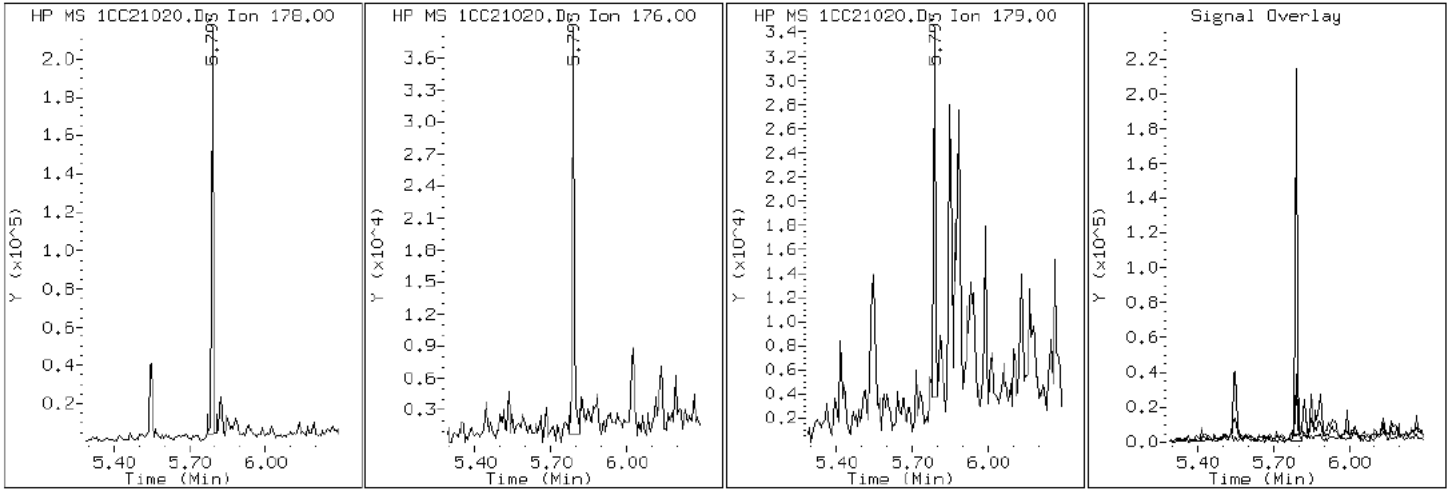
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21020.D

Date: 21-MAR-2013 16:46

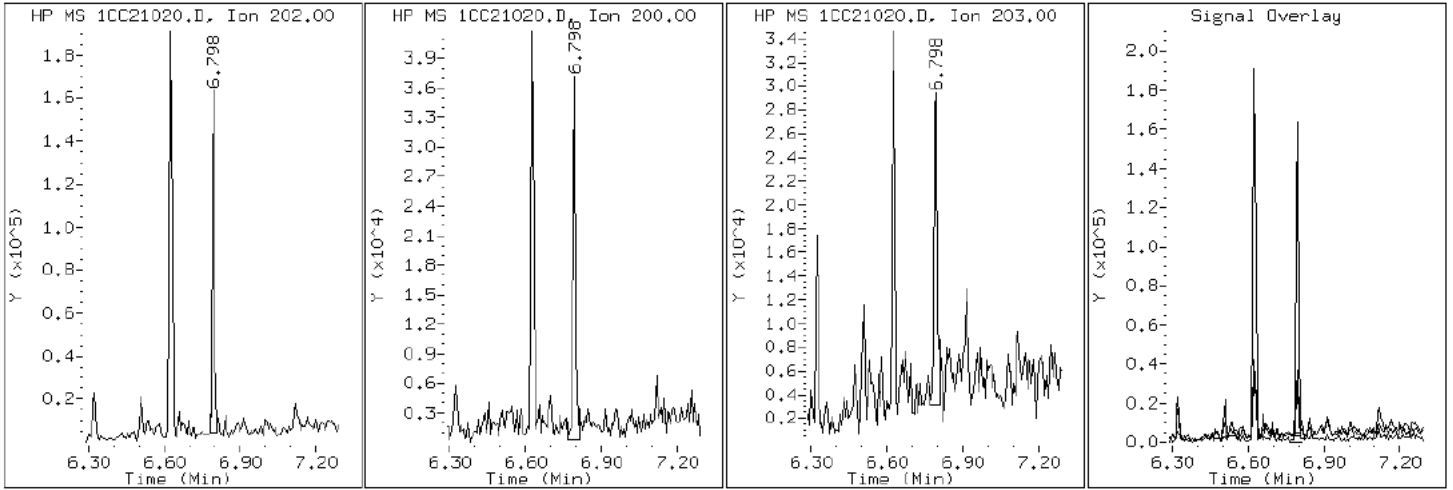
Client ID: FM0170A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-14-a

Operator: SCC

16 Pyrene

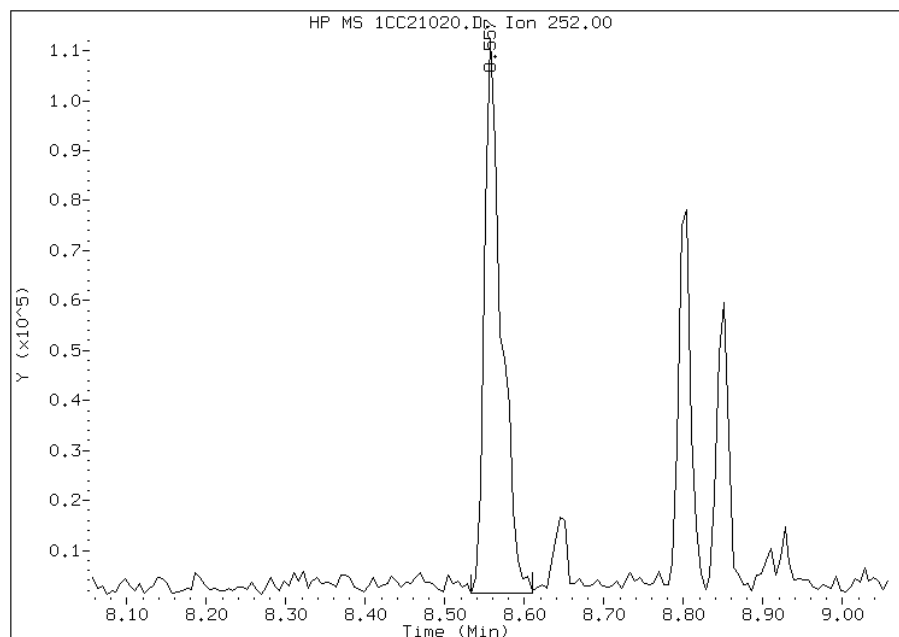


Manual Integration Report

Data File: 1CC21020.D
Inj. Date and Time: 21-MAR-2013 16:46
Instrument ID: BSMC5973.i
Client ID: FM0170A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

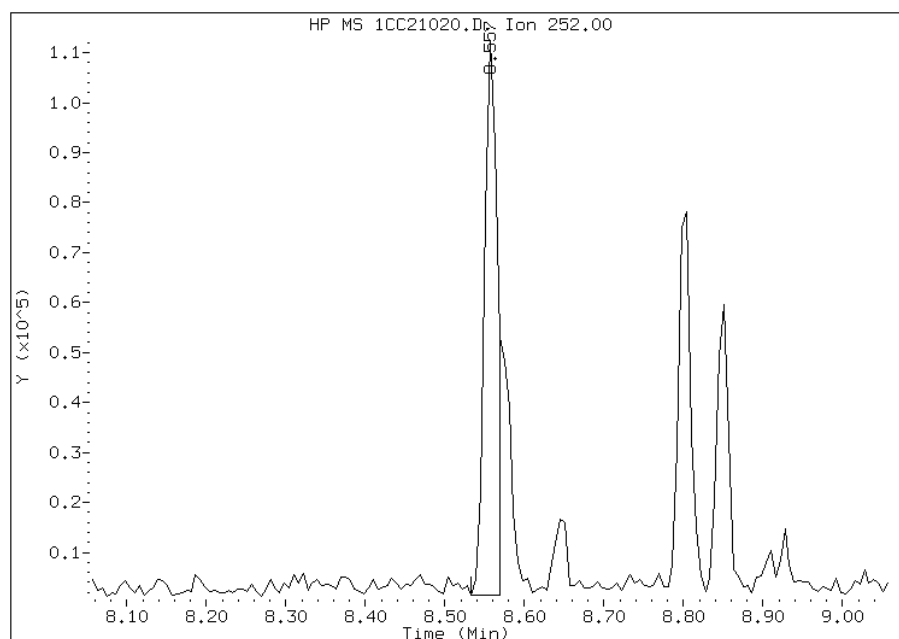
Processing Integration Results

RT: 8.56
Response: 165411
Amount: 5
Conc: 415



Manual Integration Results

RT: 8.56
Response: 124846
Amount: 4
Conc: 313



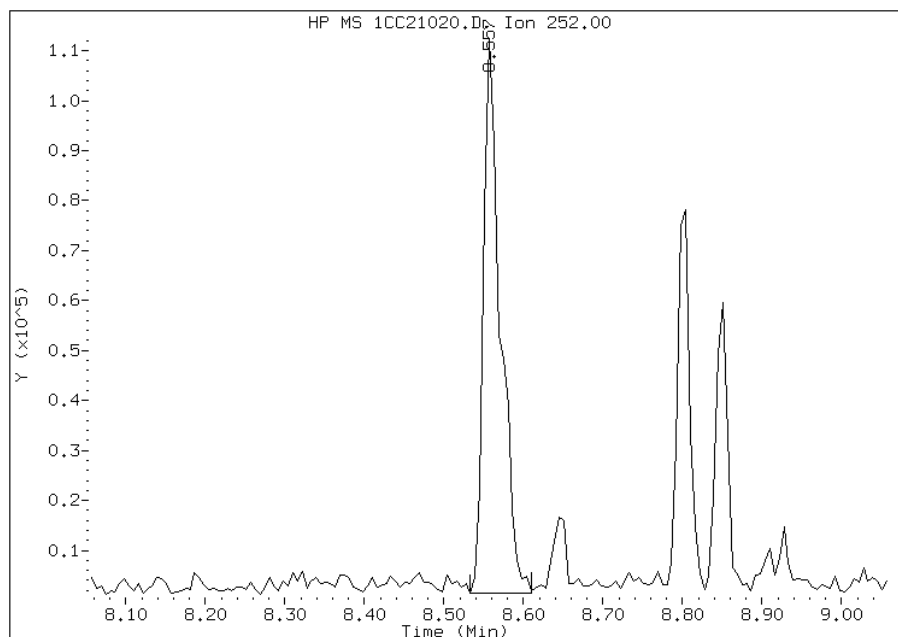
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21020.D
Inj. Date and Time: 21-MAR-2013 16:46
Instrument ID: BSMC5973.i
Client ID: FM0170A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

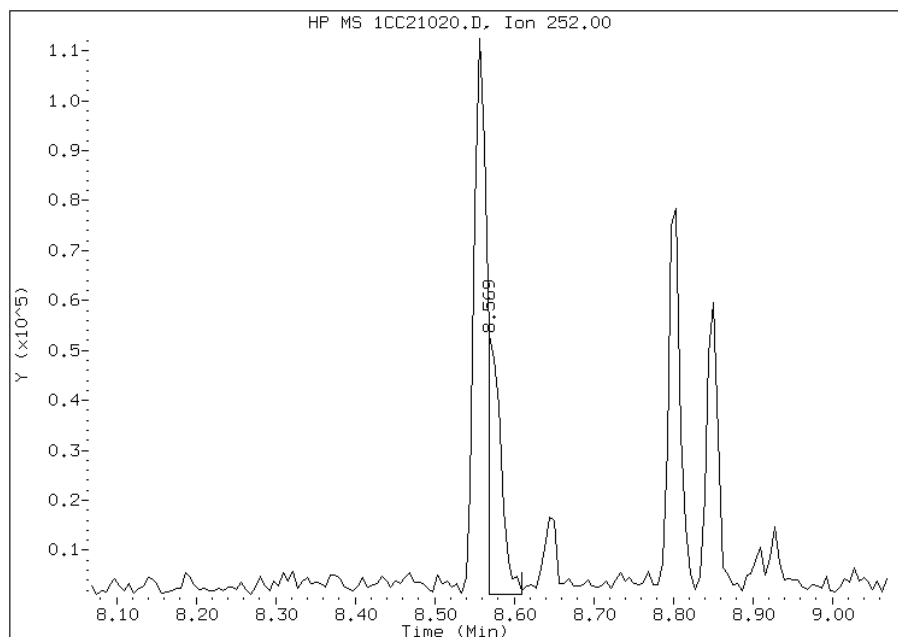
Processing Integration Results

RT: 8.56
Response: 165411
Amount: 5
Conc: 404



Manual Integration Results

RT: 8.57
Response: 59265
Amount: 2
Conc: 145



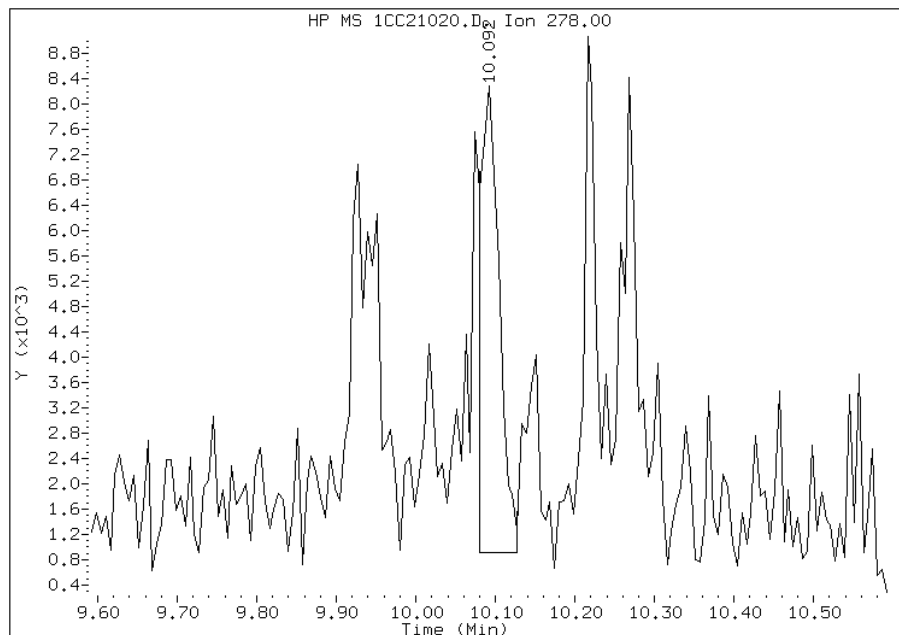
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21020.D
Inj. Date and Time: 21-MAR-2013 16:46
Instrument ID: BSMC5973.i
Client ID: FM0170A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

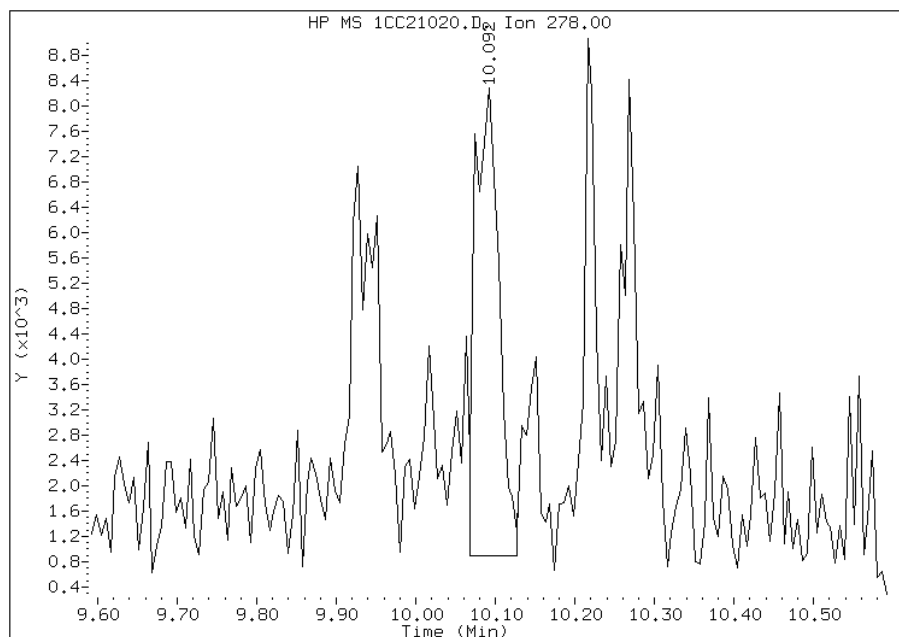
Processing Integration Results

RT: 10.09
Response: 12295
Amount: 0
Conc: 34



Manual Integration Results

RT: 10.09
Response: 15284
Amount: 0
Conc: 43



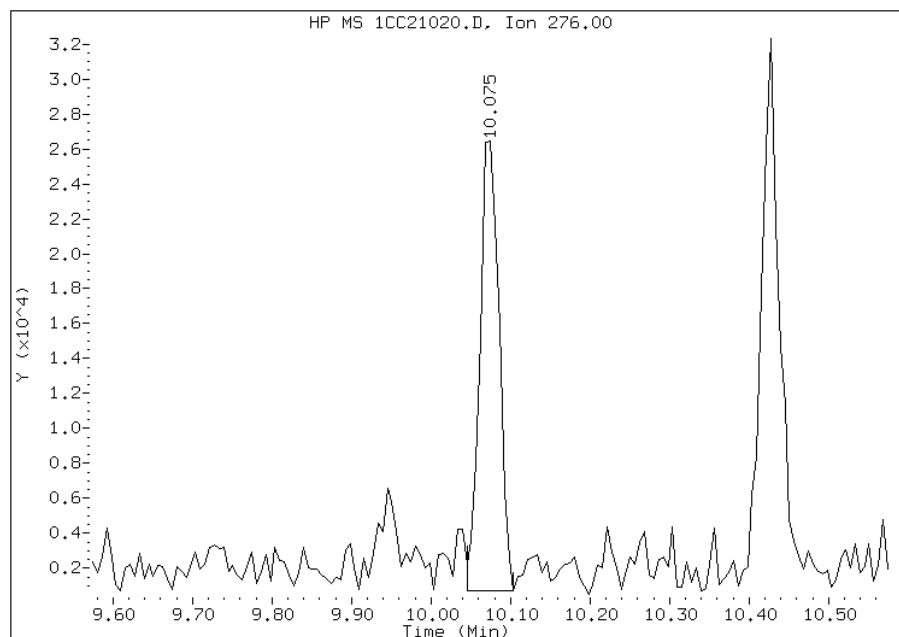
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21020.D
Inj. Date and Time: 21-MAR-2013 16:46
Instrument ID: BSMC5973.i
Client ID: FM0170A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

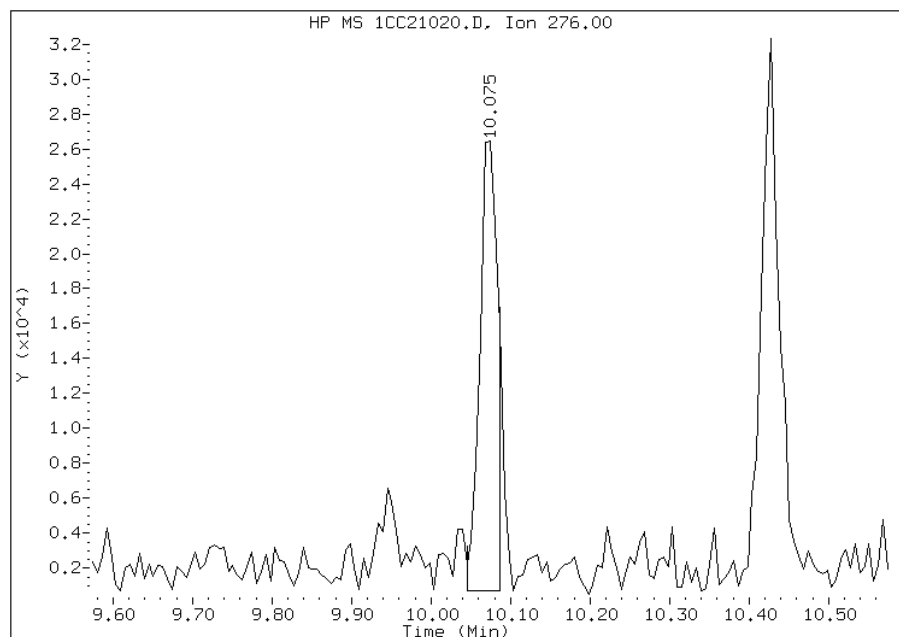
Processing Integration Results

RT: 10.07
Response: 42891
Amount: 1
Conc: 118



Manual Integration Results

RT: 10.07
Response: 40227
Amount: 1
Conc: 110



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0170A-CSD Lab Sample ID: 680-88348-15
 Matrix: Solid Lab File ID: 1CC21021.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:40
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.01(g) Date Analyzed: 03/21/2013 17:05
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 36.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	19	J	63	7.9
120-12-7	Anthracene	51		13	6.6
56-55-3	Benzo[a]anthracene	160		13	6.2
50-32-8	Benzo[a]pyrene	110		16	8.2
205-99-2	Benzo[b]fluoranthene	260		19	9.6
191-24-2	Benzo[g,h,i]perylene	92		32	7.0
207-08-9	Benzo[k]fluoranthene	65		13	5.7
218-01-9	Chrysene	290		14	7.1
53-70-3	Dibenz(a,h)anthracene	42		32	6.5
206-44-0	Fluoranthene	270		32	6.3
86-73-7	Fluorene	30	J	32	6.5
193-39-5	Indeno[1,2,3-cd]pyrene	56		32	11
90-12-0	1-Methylnaphthalene	310		63	7.0
91-57-6	2-Methylnaphthalene	470		63	11
91-20-3	Naphthalene	460		63	7.0
85-01-8	Phenanthrene	310		13	6.2
129-00-0	Pyrene	270		32	5.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21021.D
 Lab Smp Id: 680-88348-A-15-A Client Smp ID: FM0170A-CSD
 Inj Date : 21-MAR-2013 17:05
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-15-a
 Misc Info : 680-88348-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	36.797	% 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	3.739	3.739 (1.000)	1019822	40.0000				
* 6 Acenaphthene-d10	164	4.827	4.827 (1.000)	813400	40.0000				
* 10 Phenanthrene-d10	188	5.774	5.774 (1.000)	1460518	40.0000				
\$ 14 o-Terphenyl	230	6.027	6.027 (1.044)	91711	4.15898			438.3944	
* 18 Chrysene-d12	240	7.721	7.715 (1.000)	1516055	40.0000				
* 23 Perylene-d12	264	8.909	8.898 (1.000)	1419023	40.0000				
2 Naphthalene	128	3.751	3.751 (1.003)	114722	4.32101			455.4739	
3 2-Methylnaphthalene	142	4.180	4.180 (1.118)	78604	4.43842			467.8505	
4 1-Methylnaphthalene	142	4.239	4.239 (1.134)	47702	2.95744			311.7416	
5 Acenaphthylene	152	4.739	4.739 (0.982)	5899	0.17988			18.9612(Q)	
9 Fluorene	166	5.163	5.162 (1.069)	7373	0.28602			30.1488(Q)	
11 Phenanthrene	178	5.792	5.792 (1.003)	125459	2.97073			313.1420	
12 Anthracene	178	5.827	5.821 (1.009)	20032	0.48501			51.1243	
13 Carbazole	167	5.933	5.933 (1.028)	20649	0.56241			59.2836	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.627	6.627 (1.148)		116444	2.51777	265.3961
16 Pyrene	202	6.798	6.792 (0.880)		103184	2.53263	266.9627
17 Benzo(a)anthracene	228	7.710	7.709 (0.998)		67026	1.53180	161.4661
19 Chrysene	228	7.739	7.733 (1.002)		118697	2.71065	285.7272
20 Benzo(b)fluoranthene	252	8.562	8.551 (0.961)		90679	2.44521	257.7475(M)
21 Benzo(k)fluoranthene	252	8.574	8.574 (0.962)		23300	0.61247	64.5597(QM)
22 Benzo(a)pyrene	252	8.851	8.845 (0.993)		37068	1.02906	108.4729
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.068 (1.131)		17885	0.52781	55.6355(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.086 (1.132)		13293	0.40106	42.2751
26 Benzo(g,h,i)perylene	276	10.427	10.421 (1.170)		30831	0.86977	91.6820

QC Flag Legend

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

Data File: 1CC21021.D

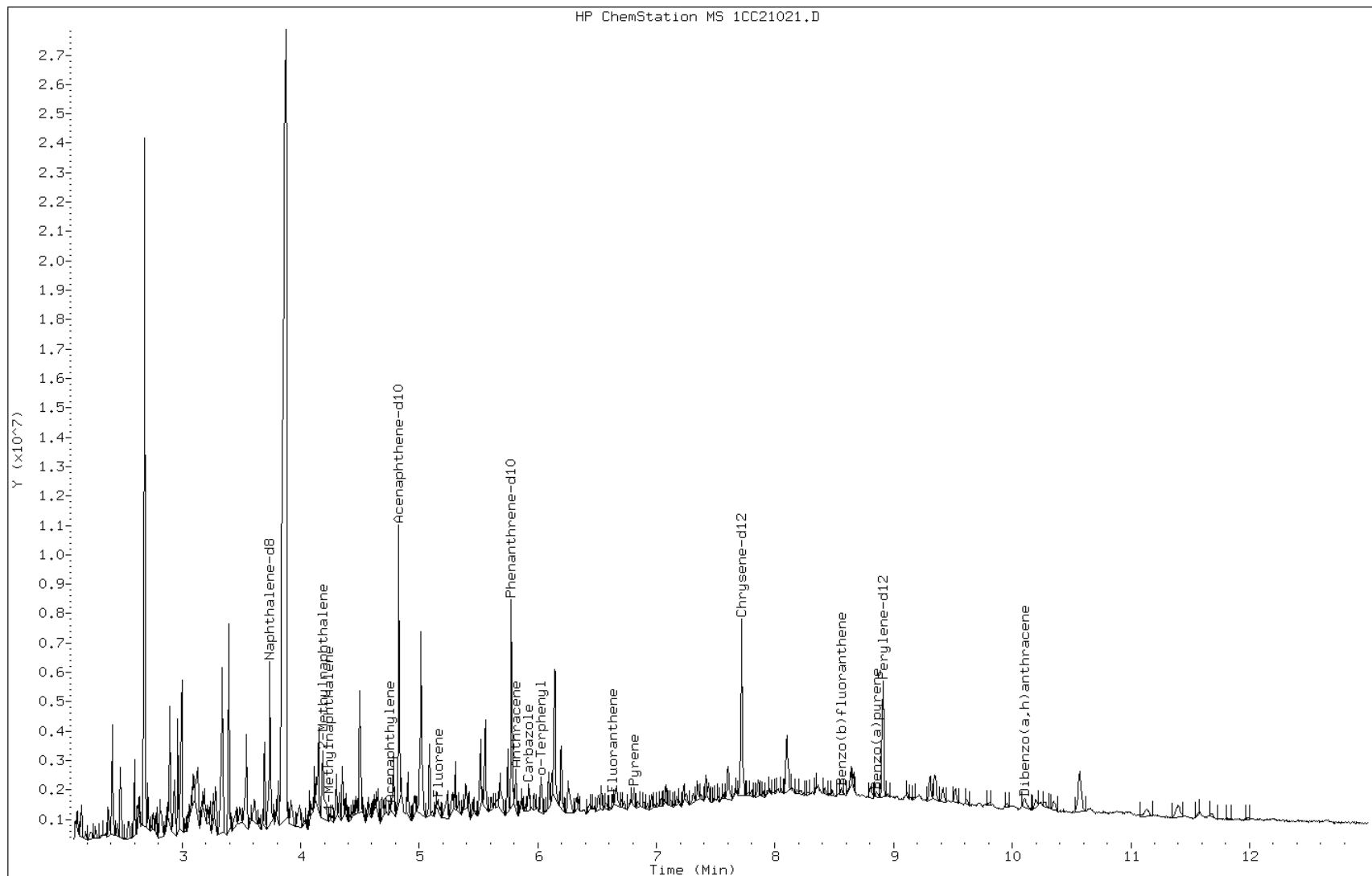
Date: 21-MAR-2013 17:05

Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

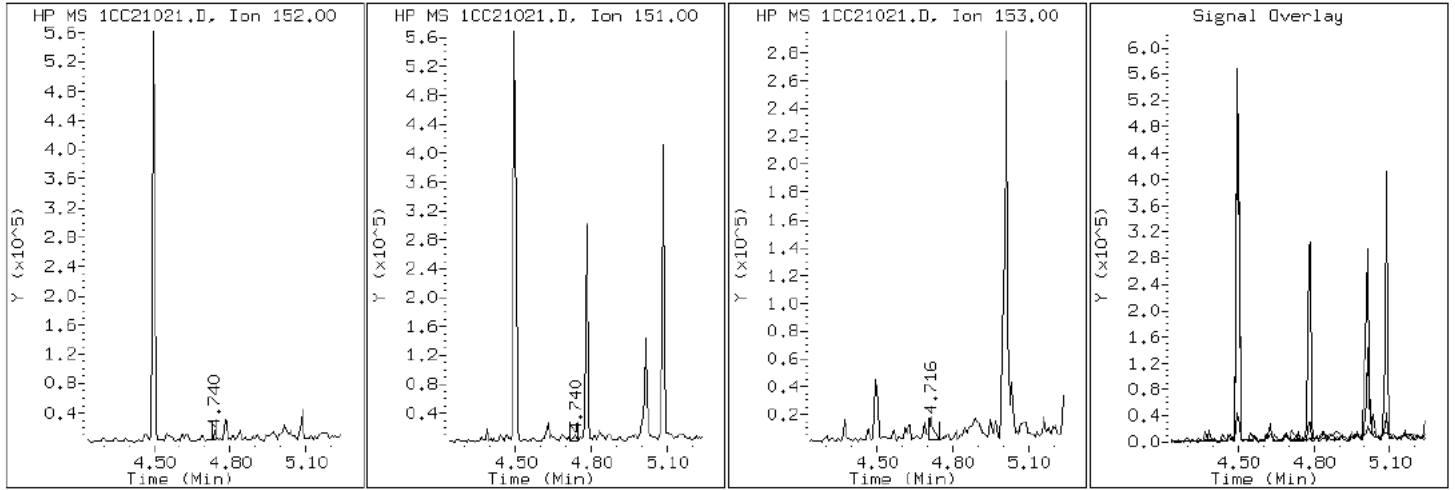
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

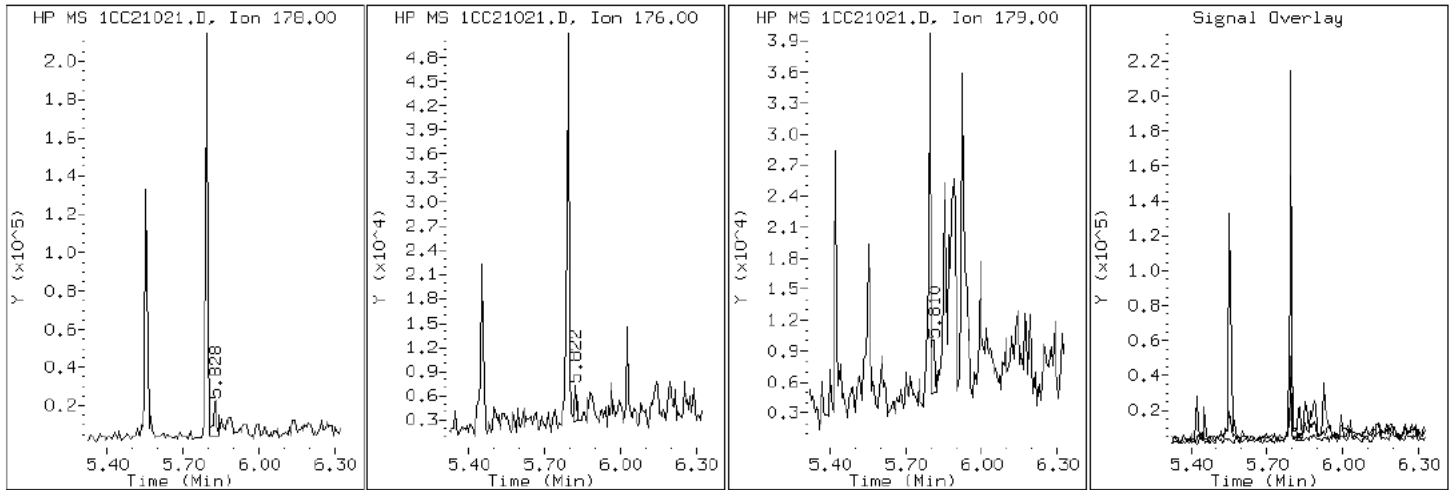
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

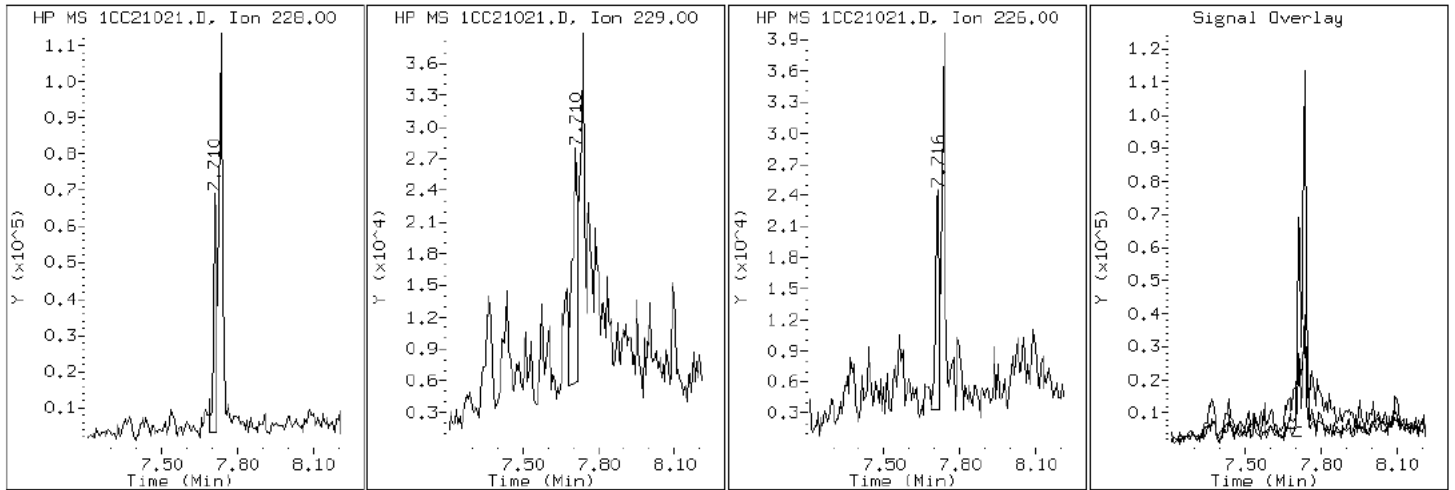
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

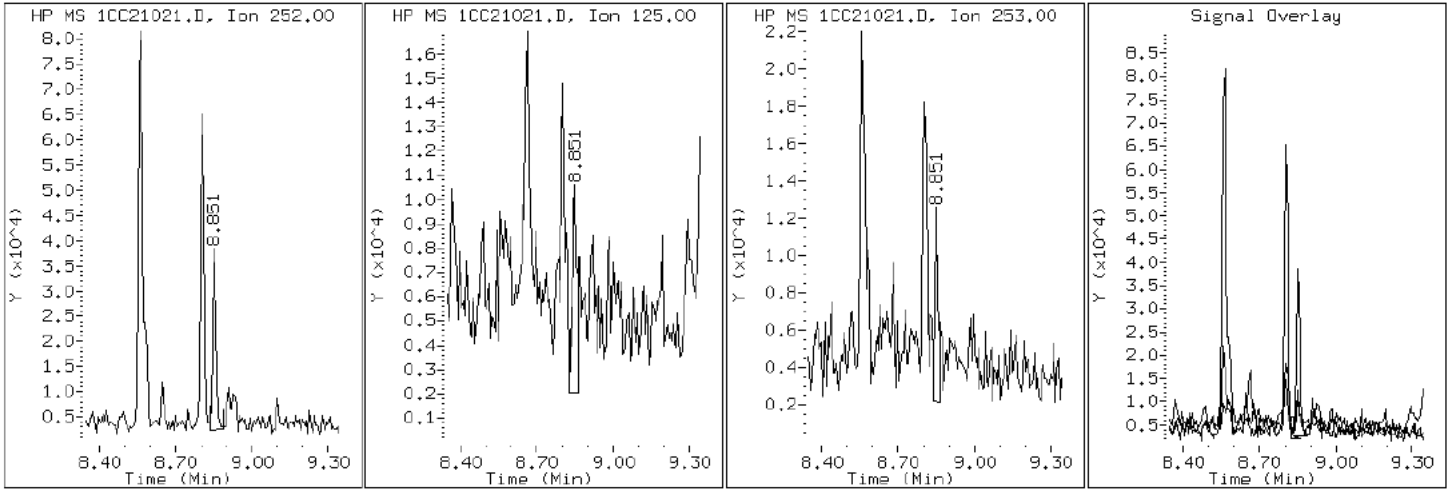
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

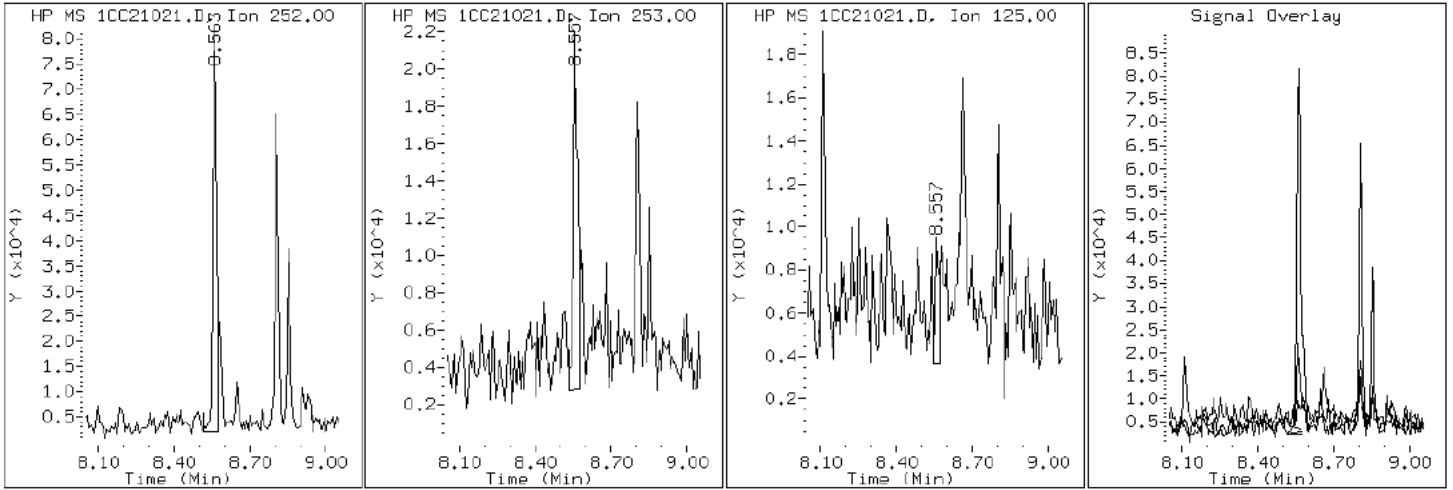
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

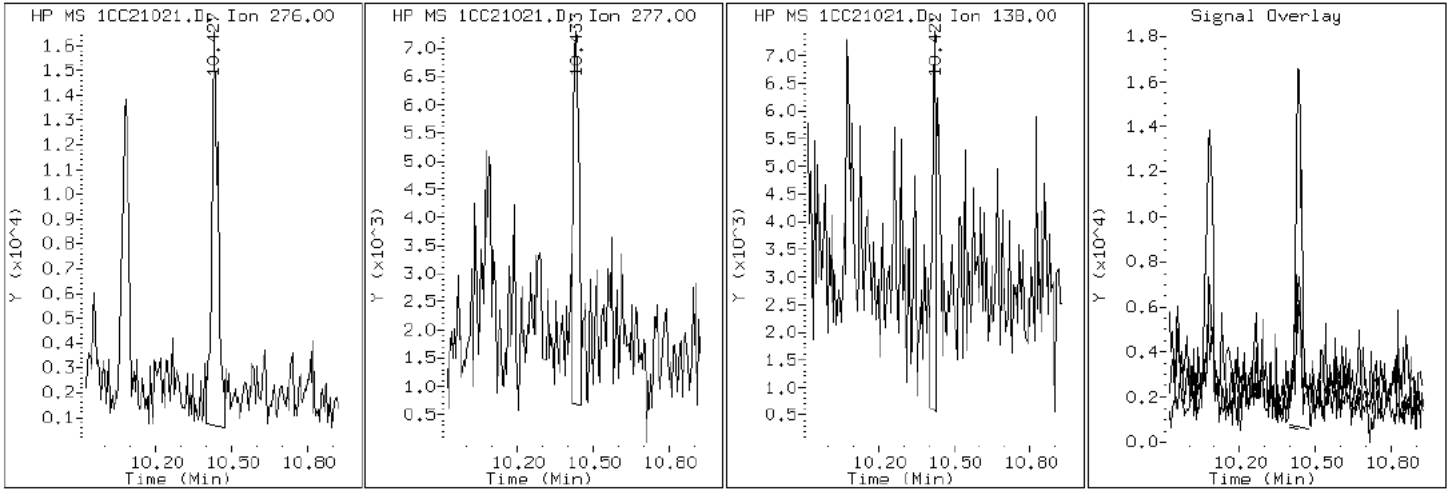
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

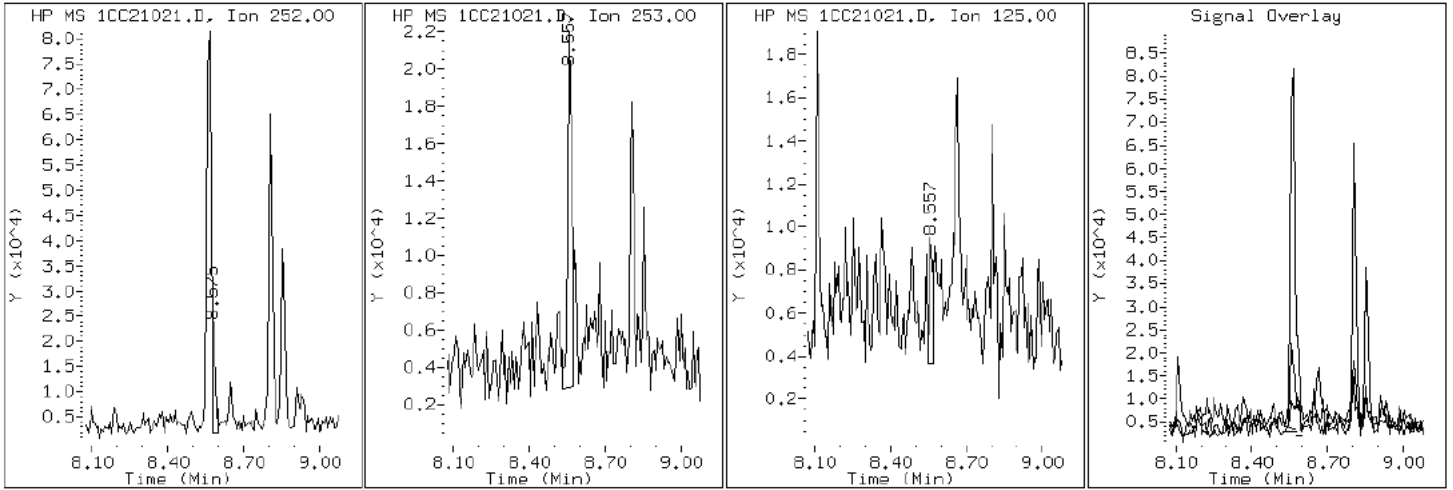
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

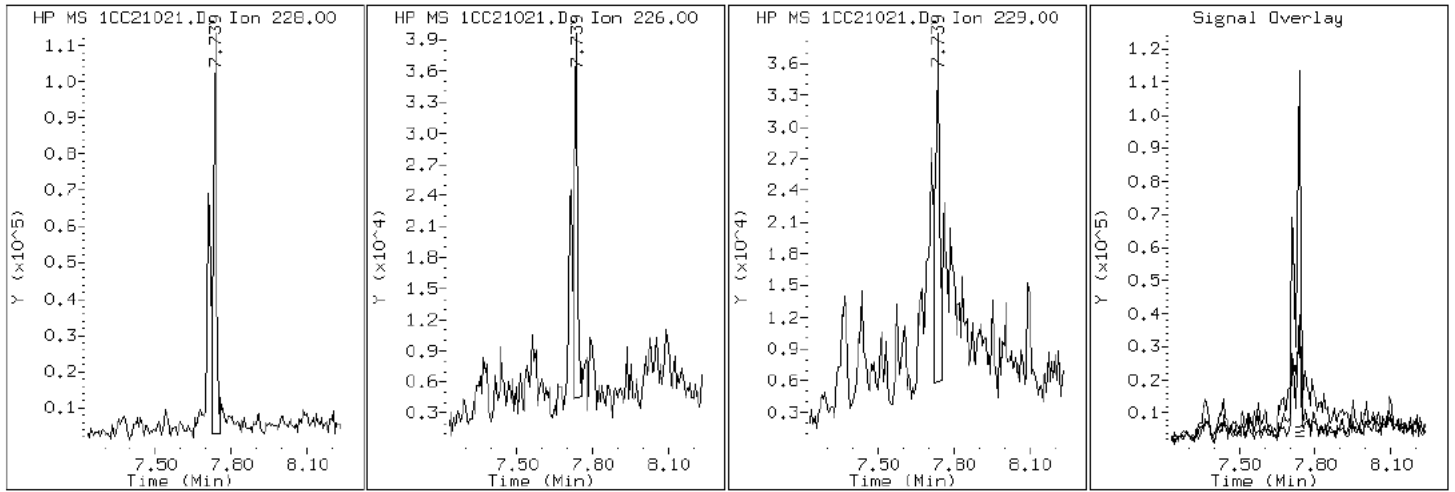
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

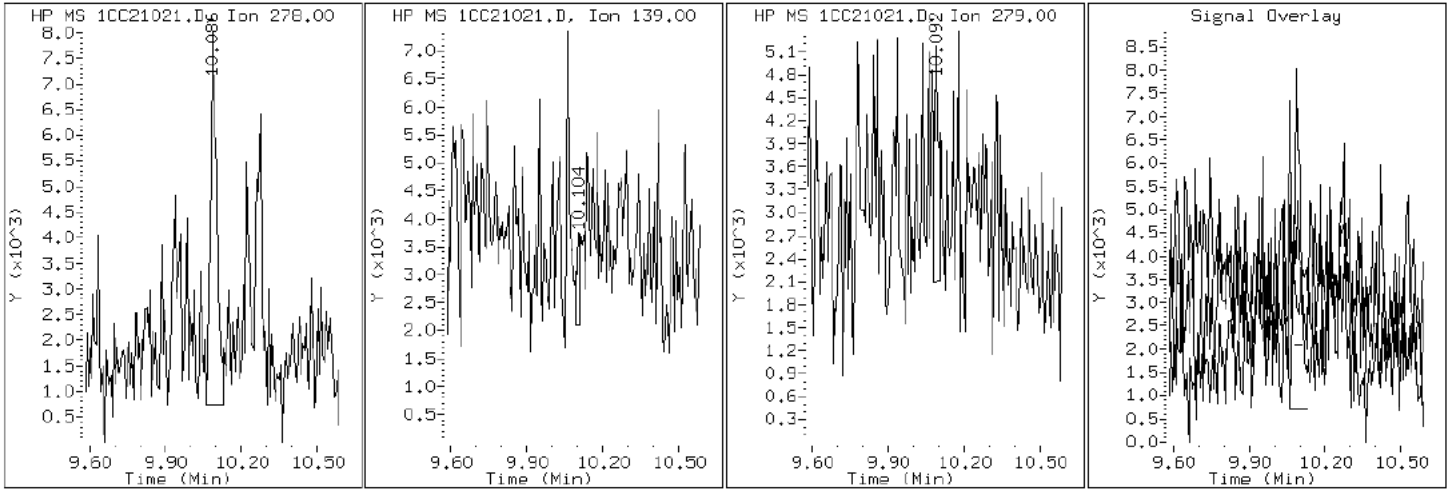
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

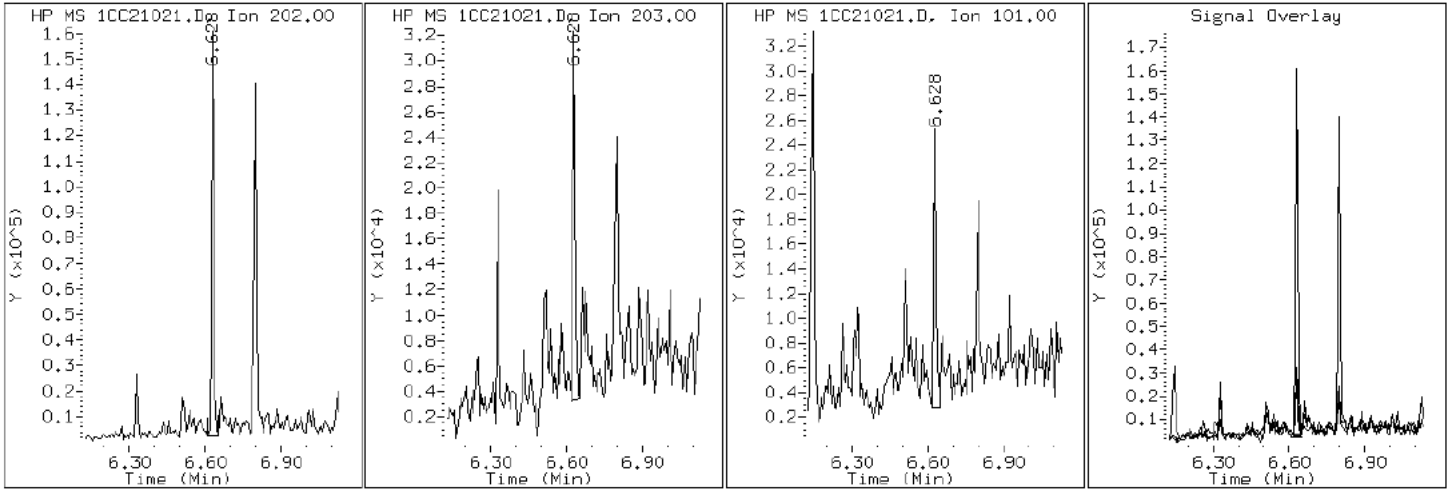
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

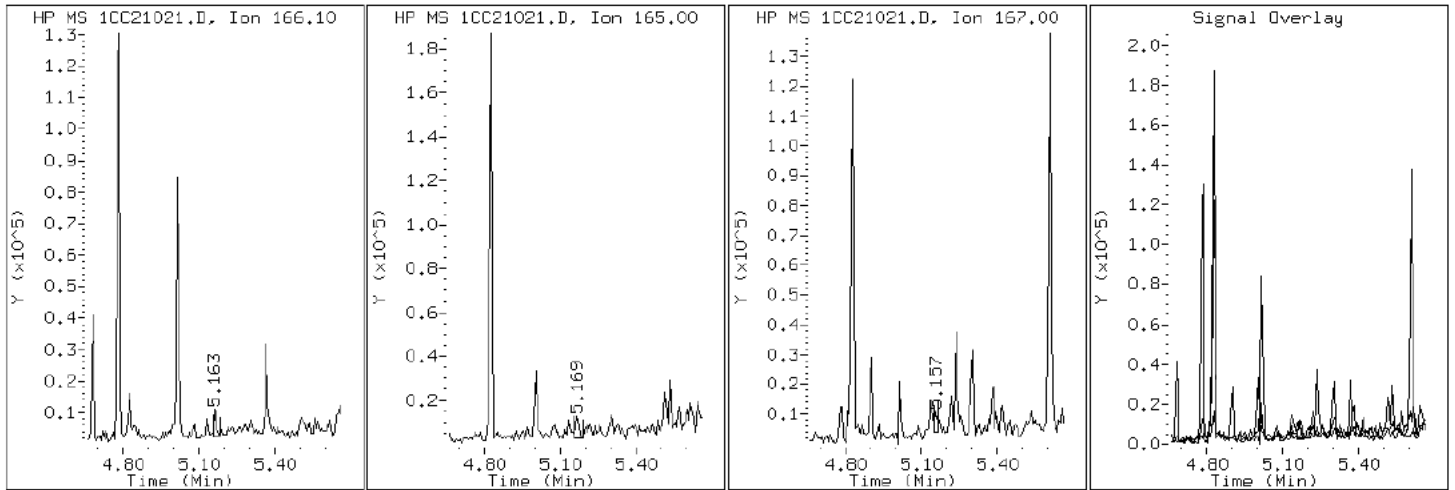
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

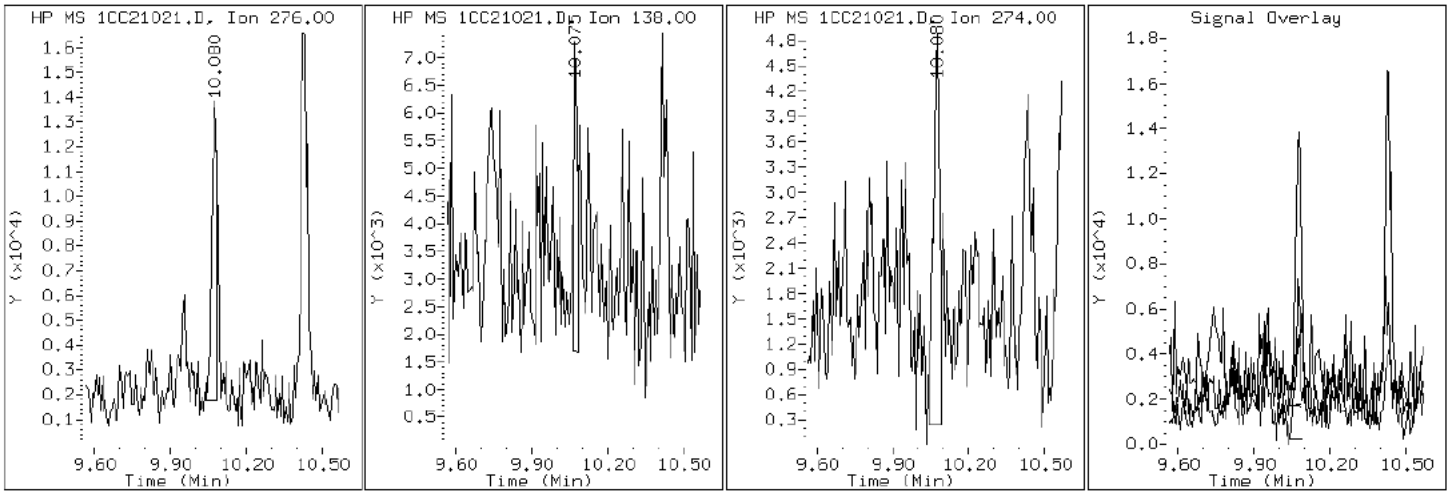
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

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



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

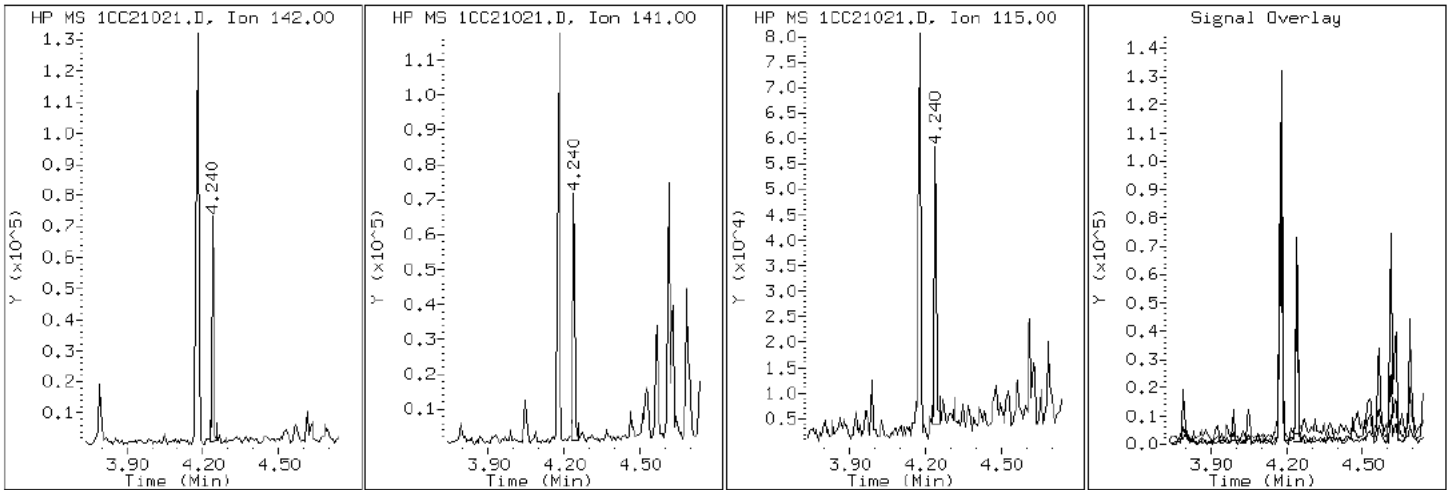
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

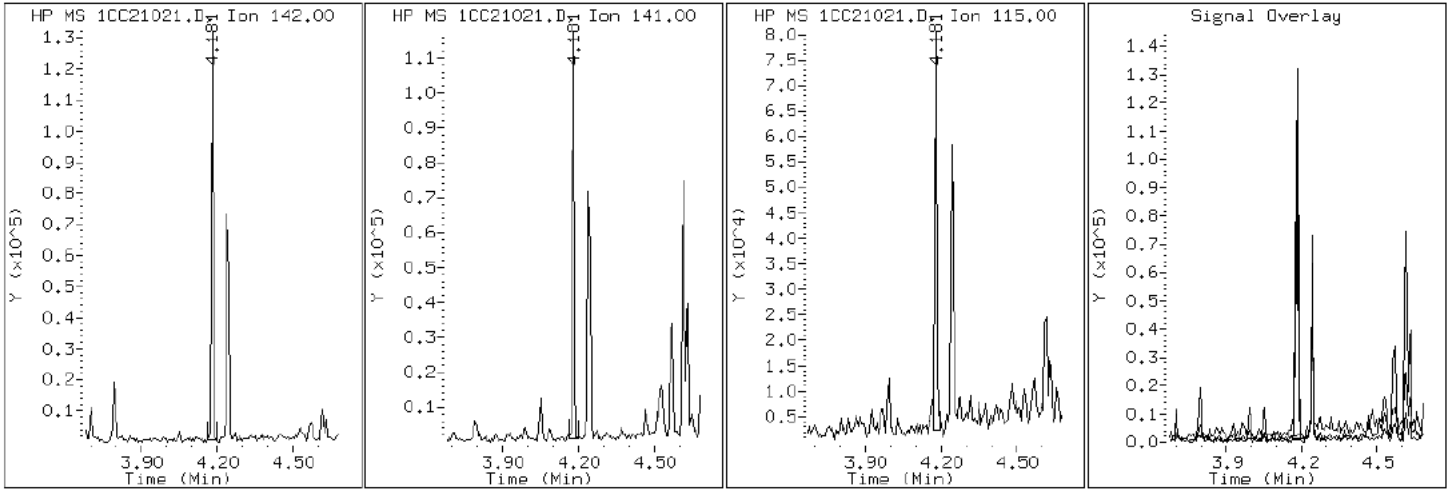
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

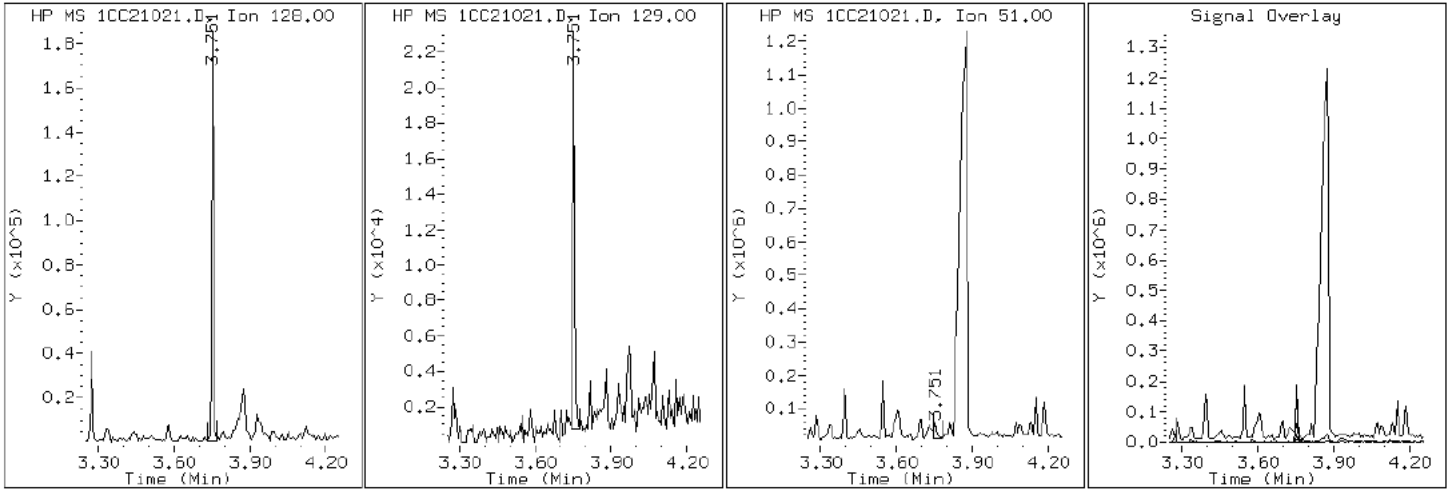
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

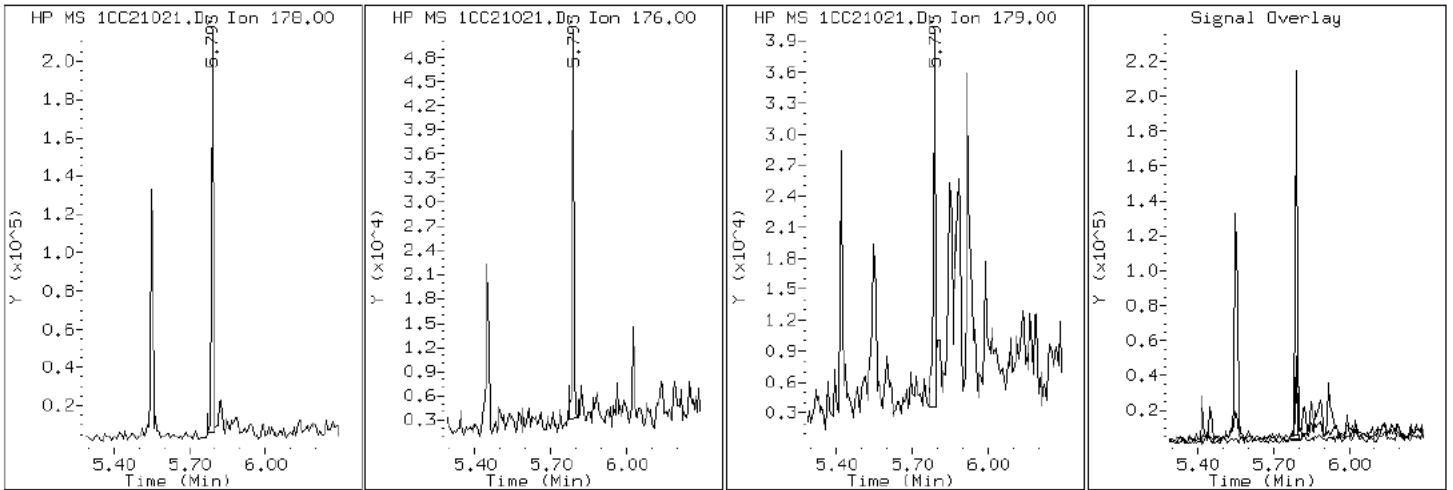
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21021.D

Date: 21-MAR-2013 17:05

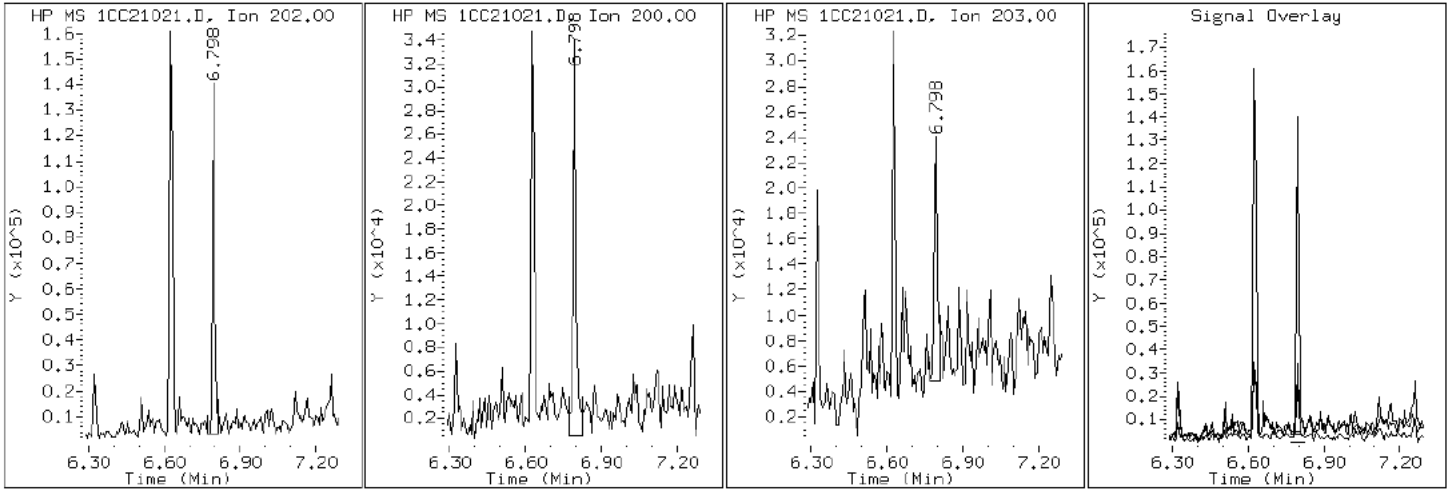
Client ID: FM0170A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88348-a-15-a

Operator: SCC

16 Pyrene

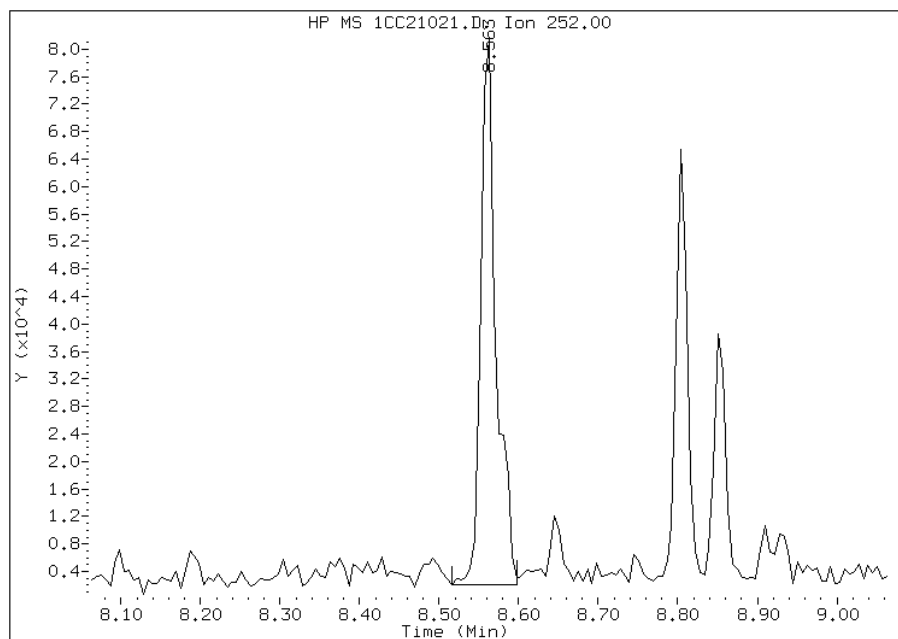


Manual Integration Report

Data File: 1CC21021.D
Inj. Date and Time: 21-MAR-2013 17:05
Instrument ID: BSMC5973.i
Client ID: FM0170A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

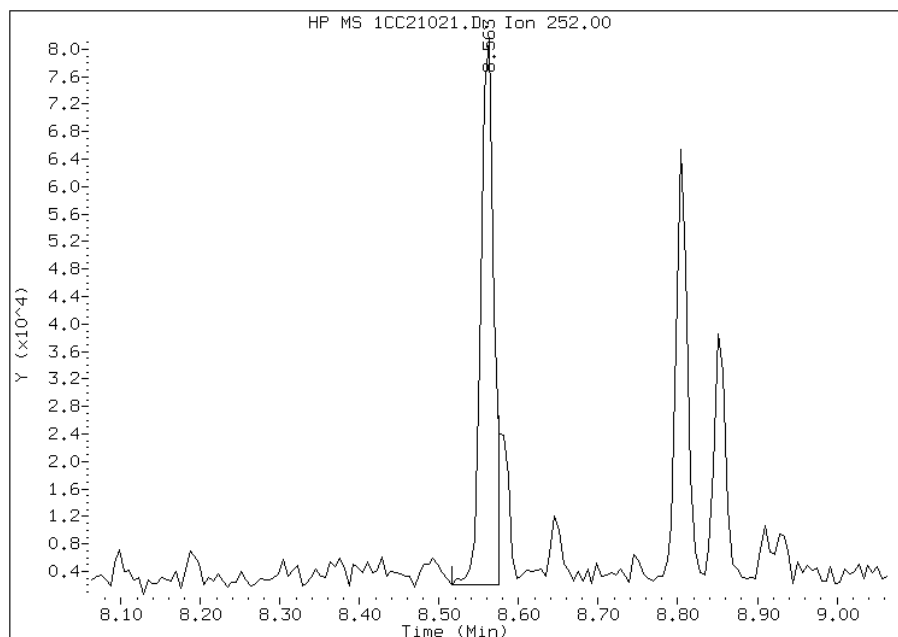
Processing Integration Results

RT: 8.56
Response: 105741
Amount: 3
Conc: 301



Manual Integration Results

RT: 8.56
Response: 90679
Amount: 2
Conc: 258



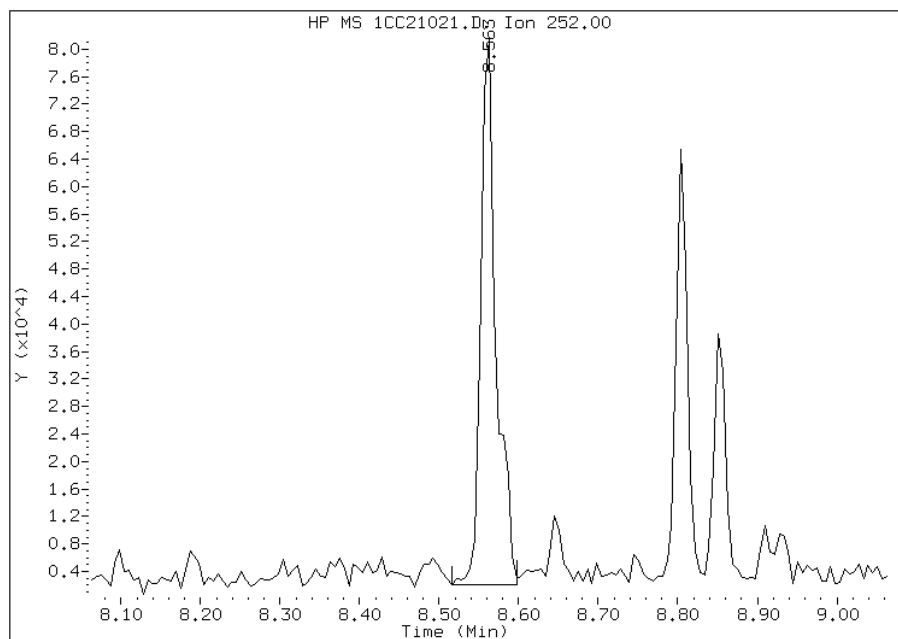
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21021.D
Inj. Date and Time: 21-MAR-2013 17:05
Instrument ID: BSMC5973.i
Client ID: FM0170A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

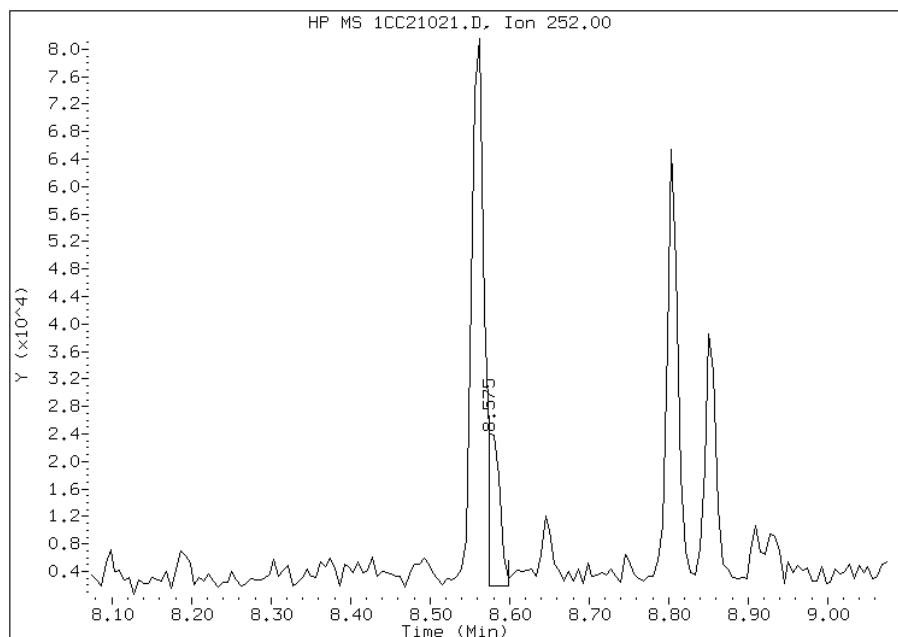
Processing Integration Results

RT: 8.56
Response: 105741
Amount: 3
Conc: 293



Manual Integration Results

RT: 8.57
Response: 23300
Amount: 1
Conc: 65



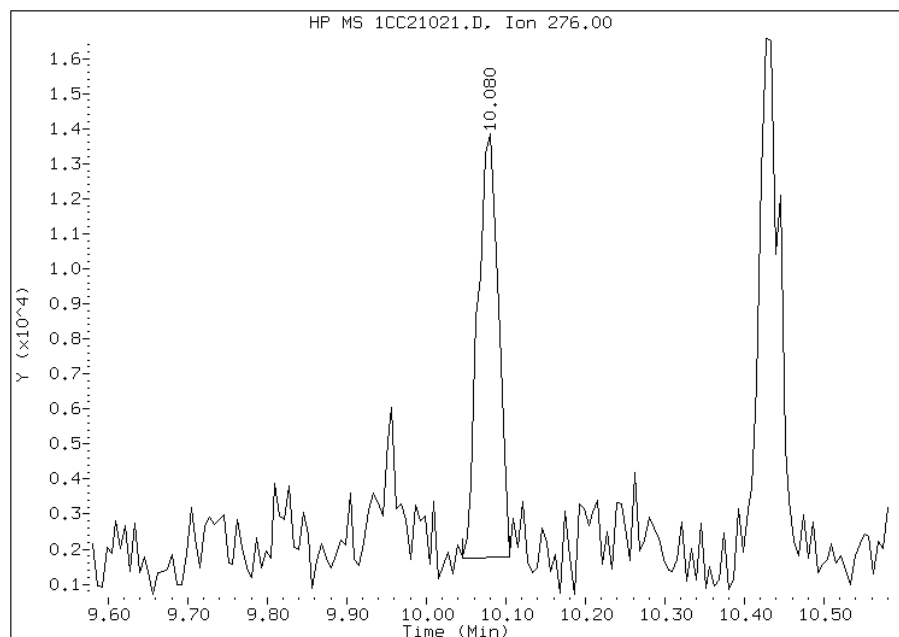
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21021.D
Inj. Date and Time: 21-MAR-2013 17:05
Instrument ID: BSMC5973.i
Client ID: FM0170A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

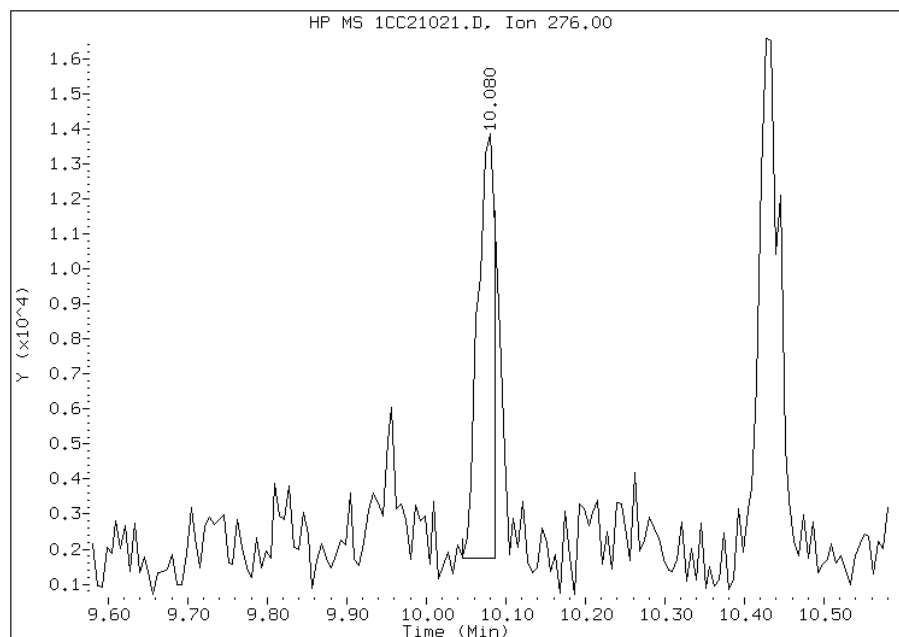
Processing Integration Results

RT: 10.08
Response: 21223
Amount: 1
Conc: 66



Manual Integration Results

RT: 10.08
Response: 17885
Amount: 1
Conc: 56



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0170B-CS Lab Sample ID: 680-88348-16
 Matrix: Solid Lab File ID: 1CC21022.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:50
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.05(g) Date Analyzed: 03/21/2013 17:23
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	51	J	66	8.2
120-12-7	Anthracene	110		14	6.9
56-55-3	Benzo[a]anthracene	270		13	6.4
50-32-8	Benzo[a]pyrene	180		17	8.6
205-99-2	Benzo[b]fluoranthene	380		20	10
191-24-2	Benzo[g,h,i]perylene	120		33	7.2
207-08-9	Benzo[k]fluoranthene	120		13	5.9
218-01-9	Chrysene	400		15	7.4
53-70-3	Dibenz(a,h)anthracene	57		33	6.8
206-44-0	Fluoranthene	390		33	6.6
86-73-7	Fluorene	44		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	88		33	12
90-12-0	1-Methylnaphthalene	250		66	7.2
91-57-6	2-Methylnaphthalene	240		66	12
91-20-3	Naphthalene	270		66	7.2
85-01-8	Phenanthrene	420		13	6.4
129-00-0	Pyrene	400		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21022.D
 Lab Smp Id: 680-88348-A-16-A Client Smp ID: FM0170B-CS
 Inj Date : 21-MAR-2013 17:23
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-16-a
 Misc Info : 680-88348-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	39.484	% 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		3.739	3.739	(1.000)	956263	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	782423	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.774	(1.000)	1439967	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	91967	4.23011	464.4572	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1452246	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1343588	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	62222	2.49936	274.4249(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	36506	2.19834	241.3734	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	34025	2.24970	247.0125	
5 Acenaphthylene	152		4.739	4.739	(0.982)	14651	0.46445	50.9956(Q)	
9 Fluorene	166		5.174	5.162	(1.072)	9835	0.39663	43.5490(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	157417	3.78066	415.1082	
12 Anthracene	178		5.827	5.821	(1.008)	41895	1.02883	112.9629	
13 Carbazole	167		5.939	5.933	(1.027)	36732	1.01474	111.4167(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.627	6.627	(1.147)	162456	3.56278	391.1861
16 Pyrene	202	6.798	6.792	(0.880)	143736	3.68299	404.3843
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	101717	2.42677	266.4539
19 Chrysene	228	7.739	7.733	(1.002)	152738	3.64129	399.8062
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.960)	121688	3.46562	380.5175(M)
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.963)	39401	1.09385	120.1026(QM)
22 Benzo(a)pyrene	252	8.851	8.845	(0.993)	56594	1.65935	182.1929
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.068	(1.131)	25847	0.80560	88.4529(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	16383	0.52204	57.3184
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.170)	36009	1.07288	117.8003

QC Flag Legend

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

Data File: 1CC21022.D

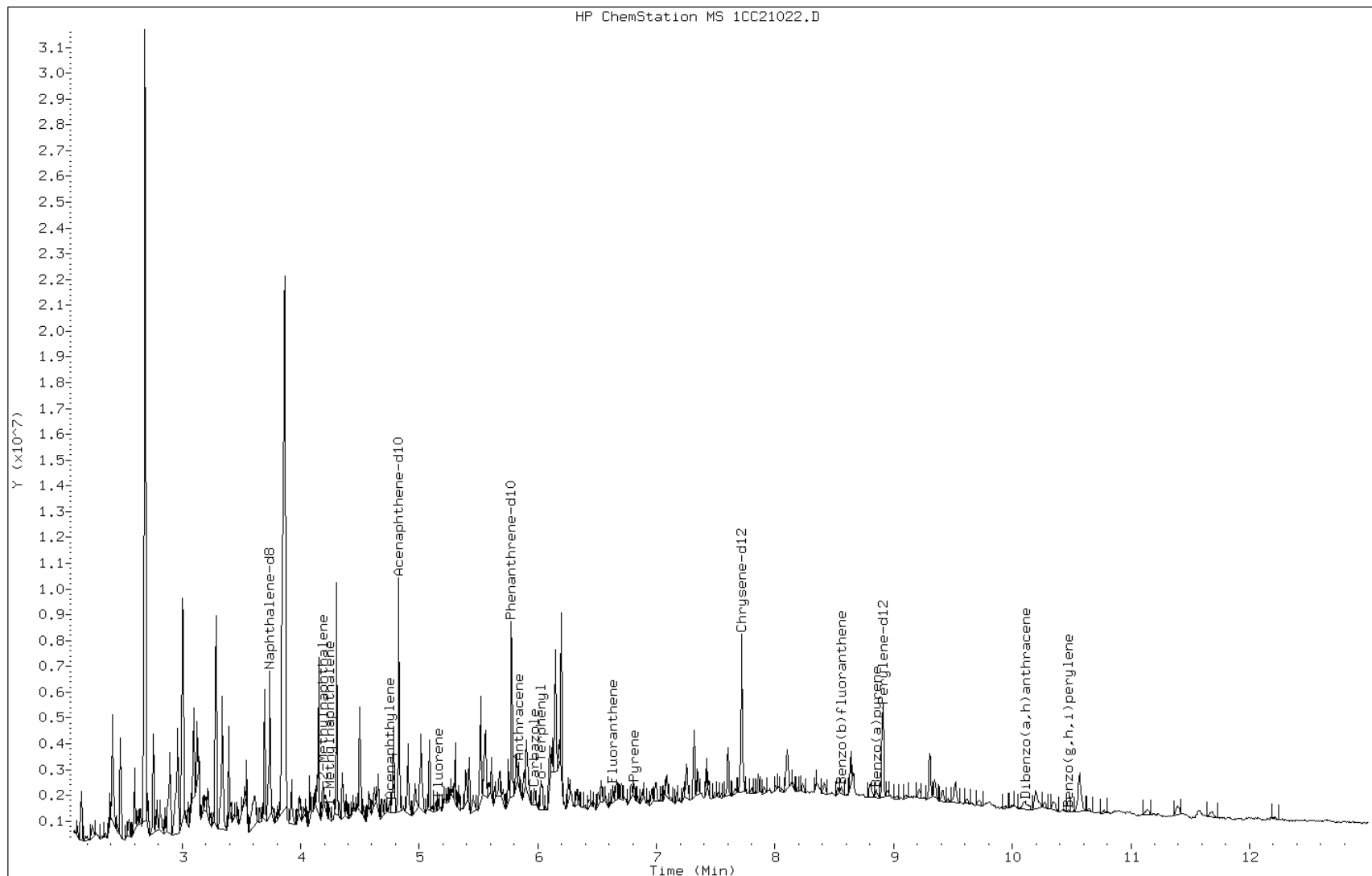
Date: 21-MAR-2013 17:23

Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

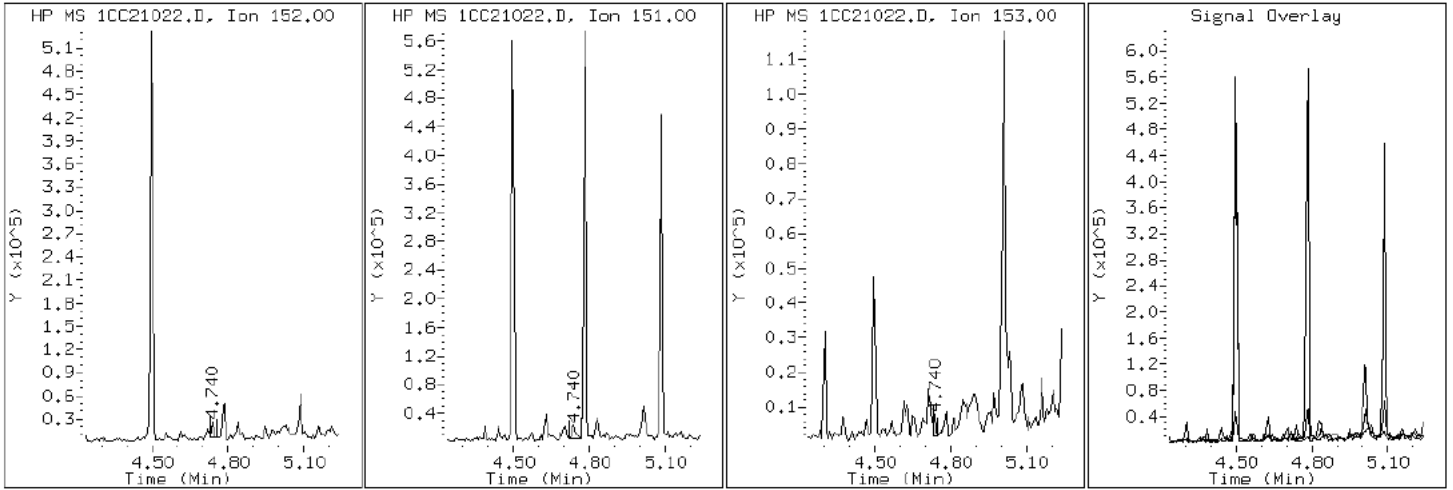
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

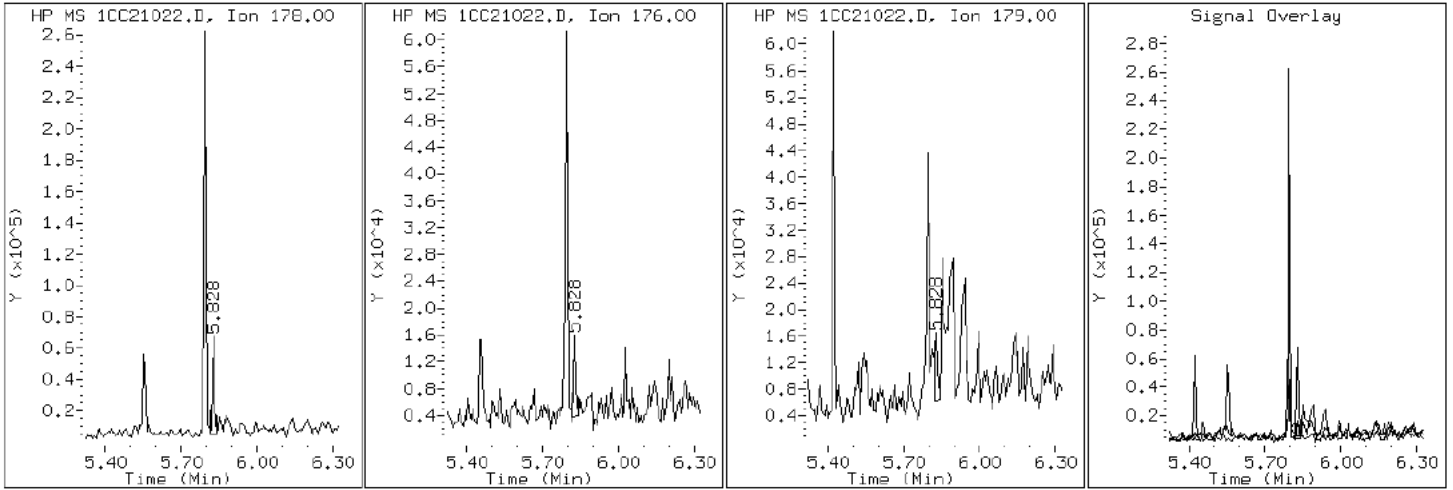
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

12 Anthracene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

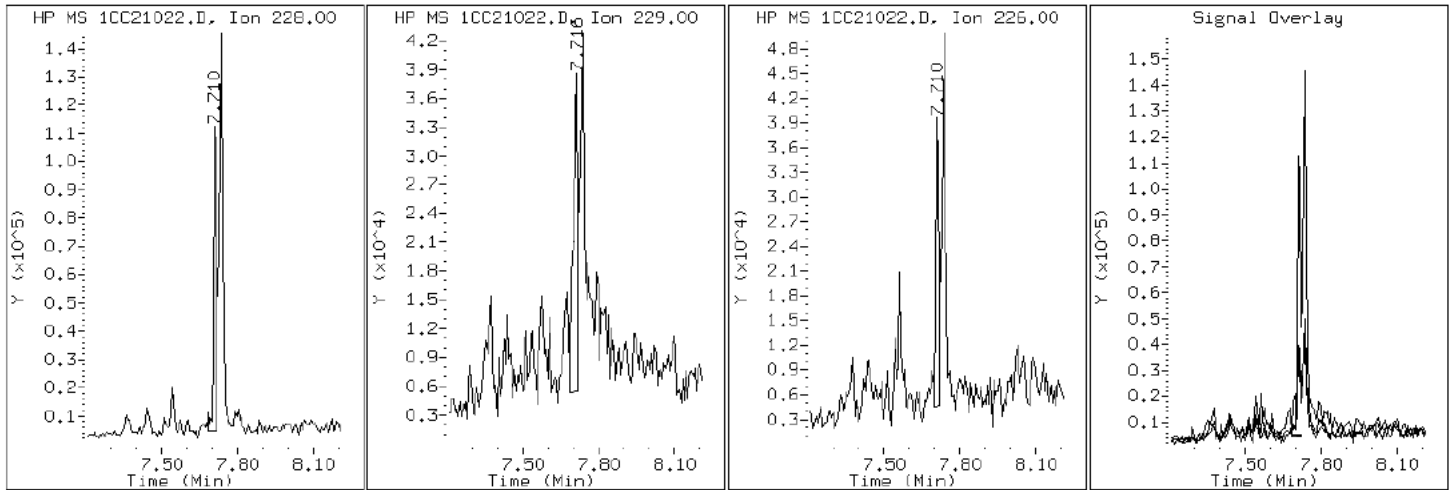
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

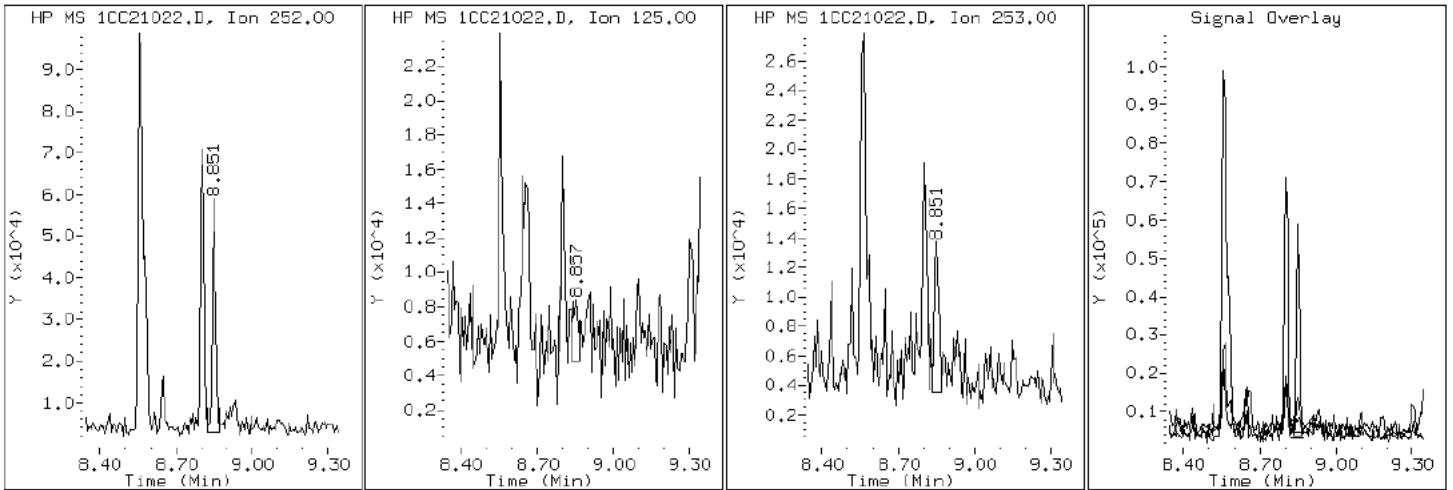
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

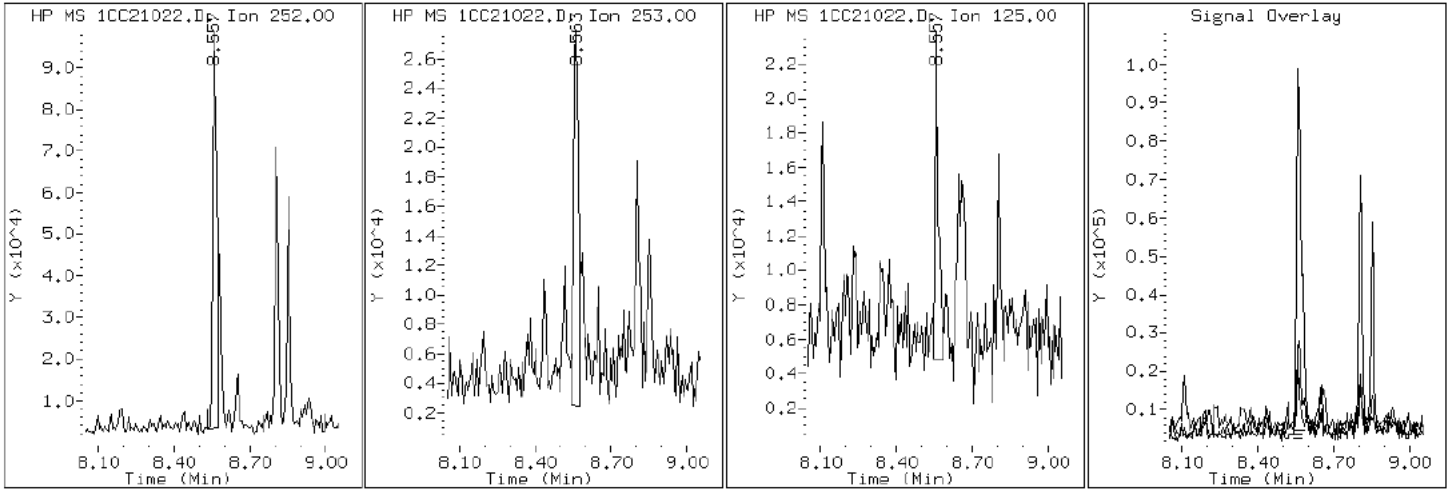
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

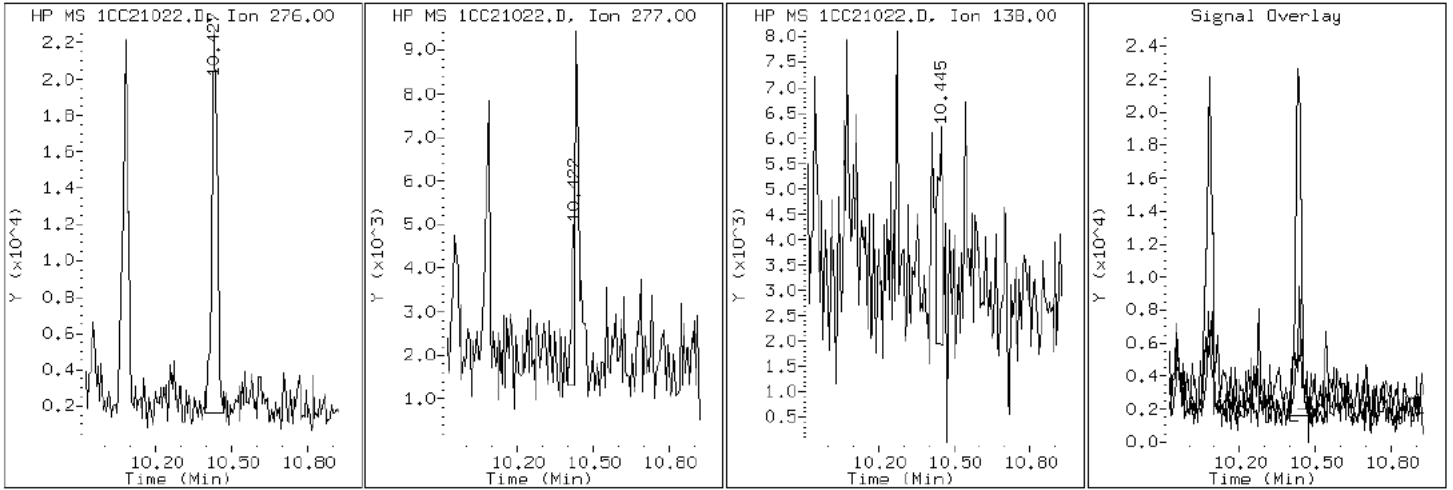
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

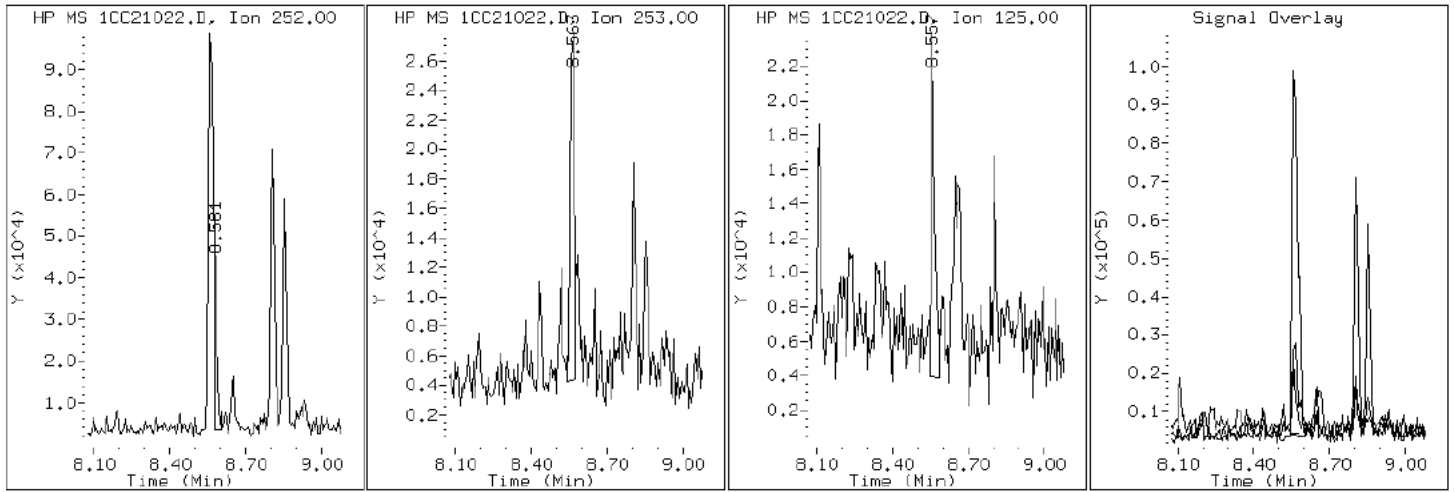
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

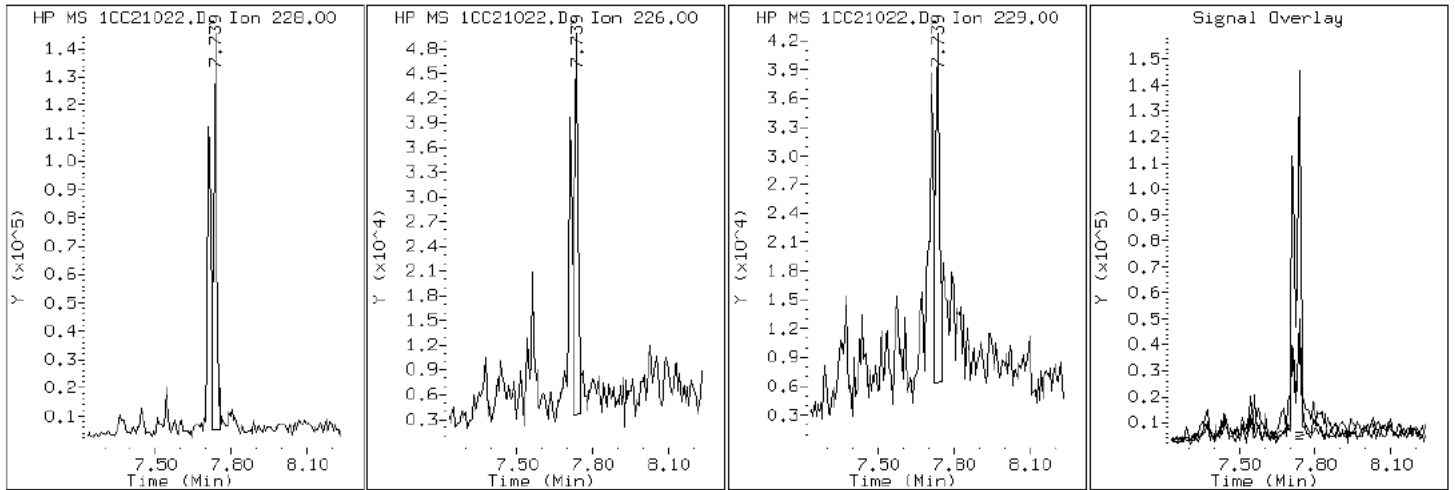
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

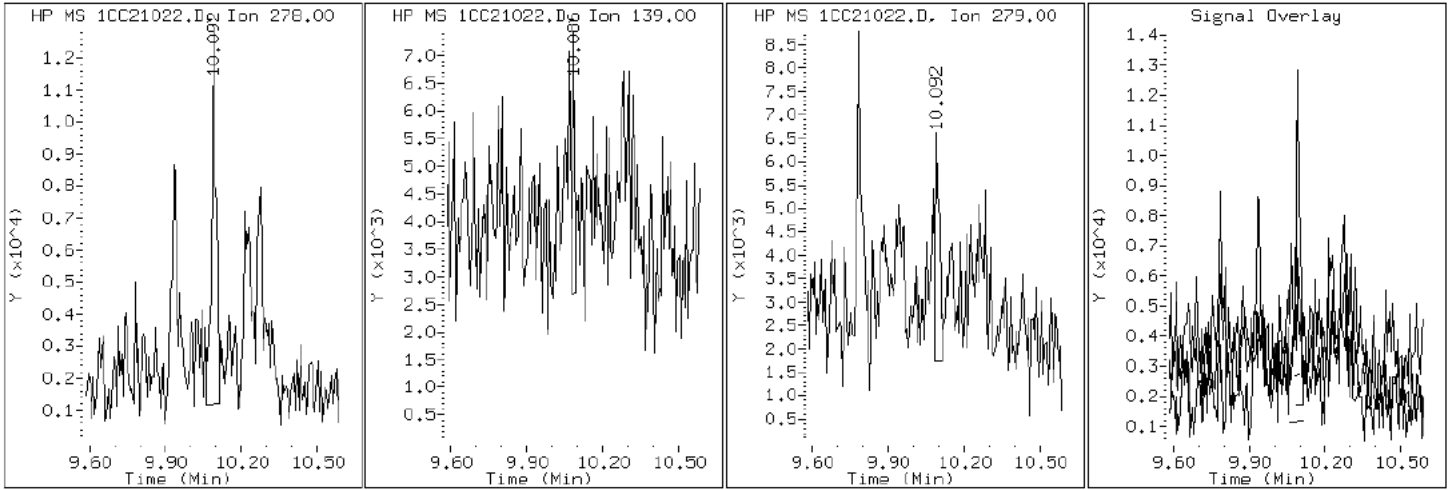
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

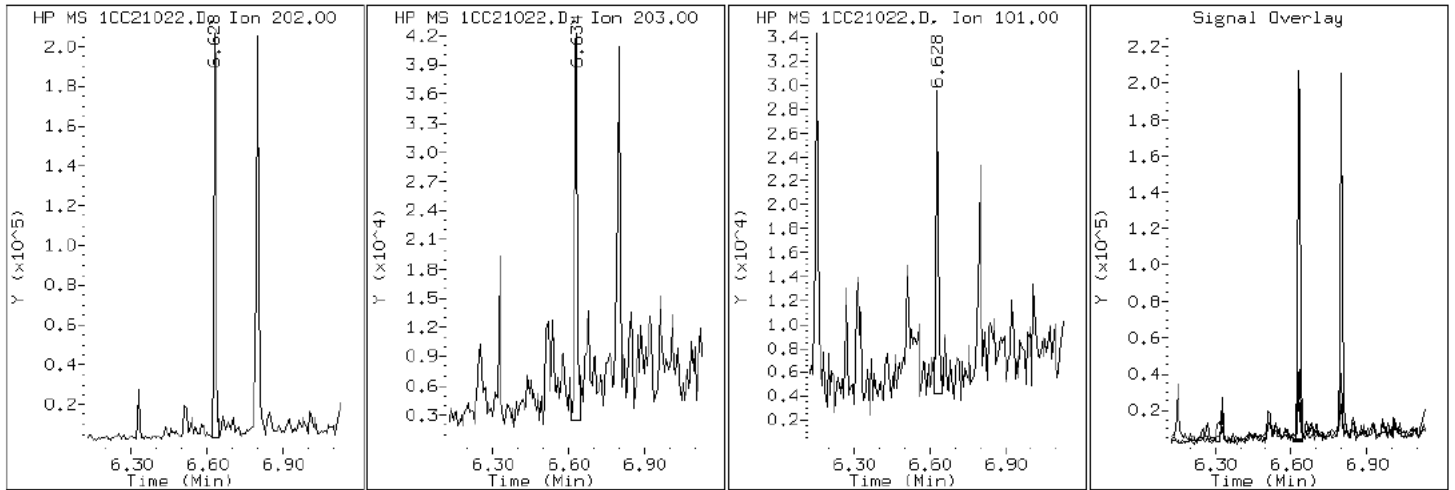
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

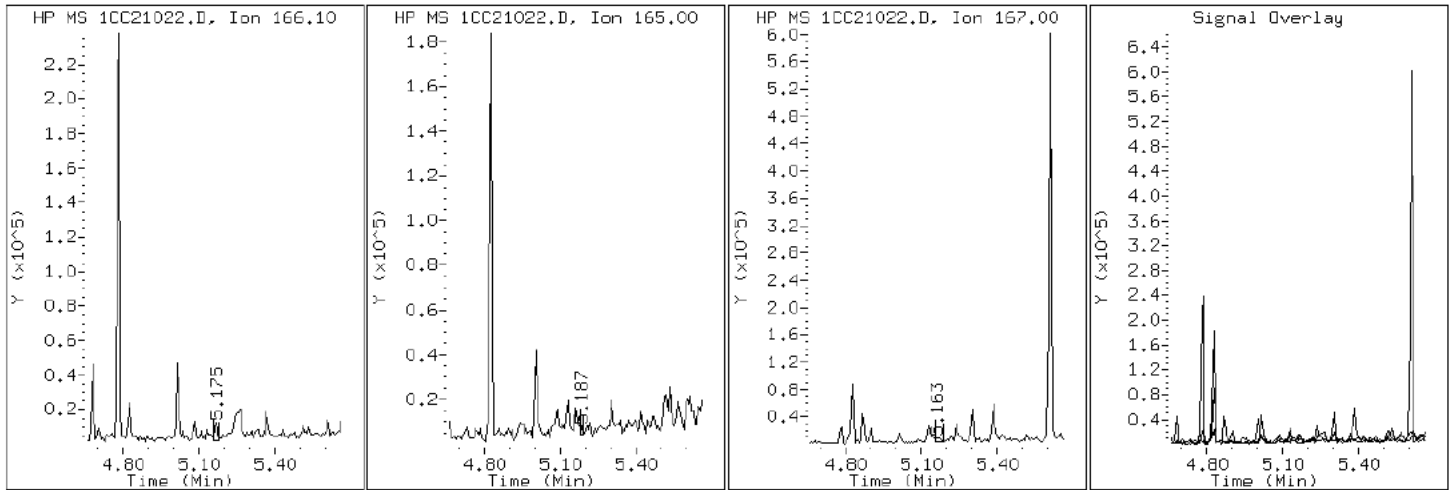
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

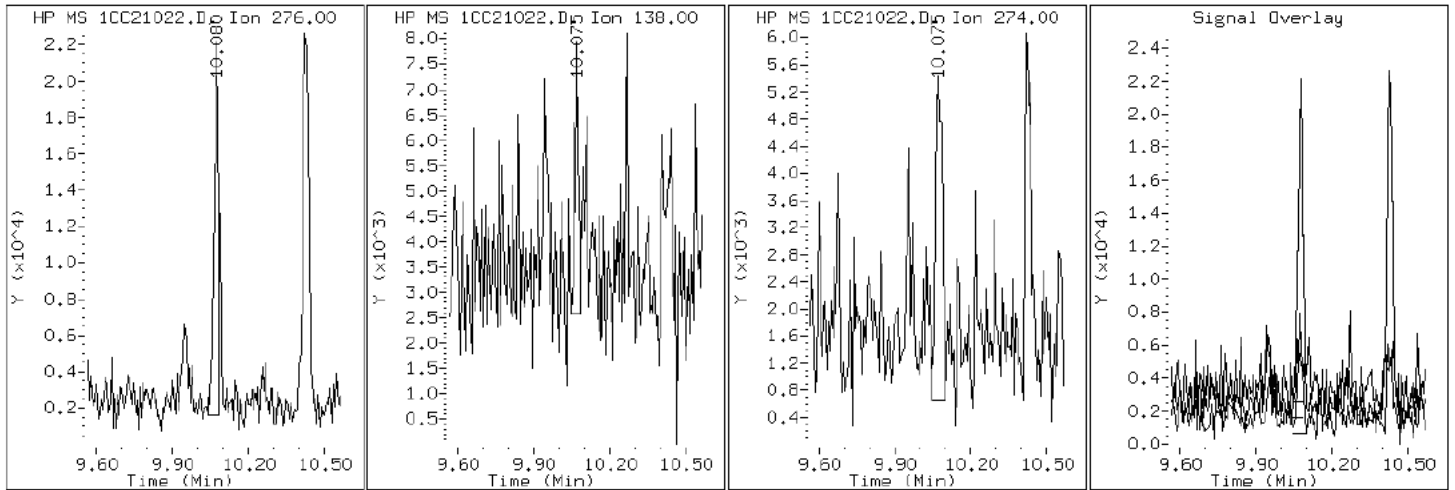
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

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



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

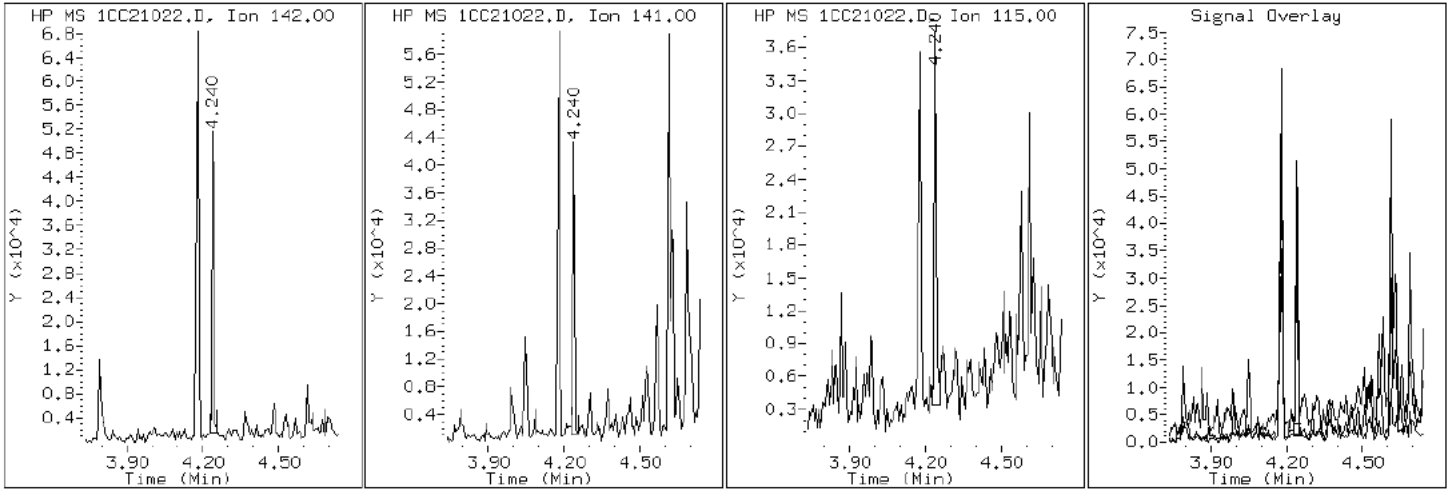
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

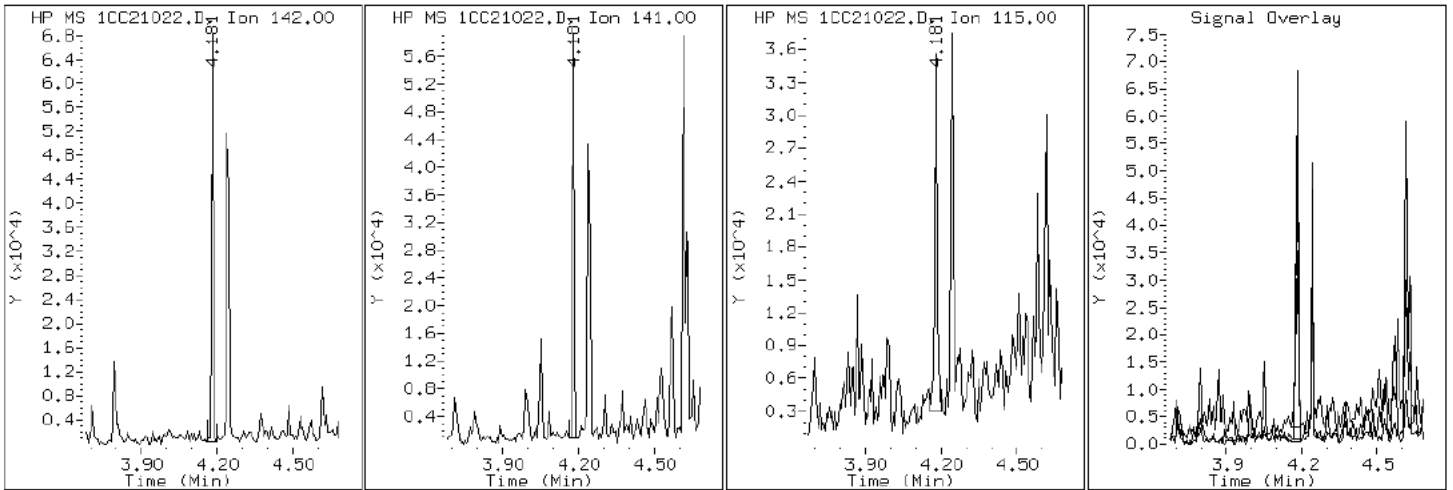
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

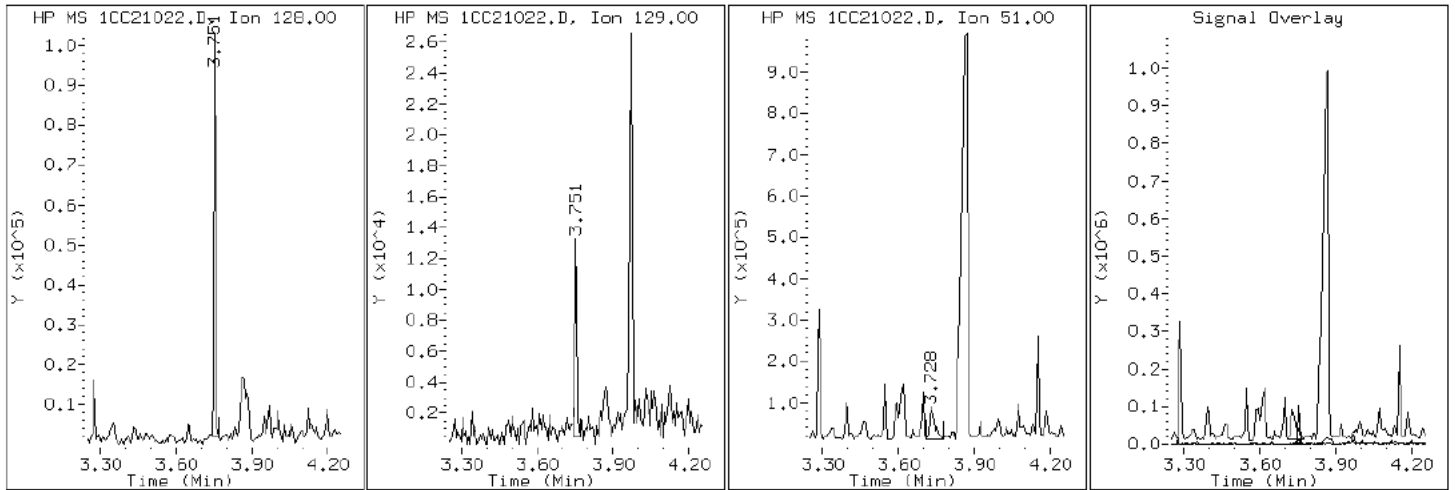
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

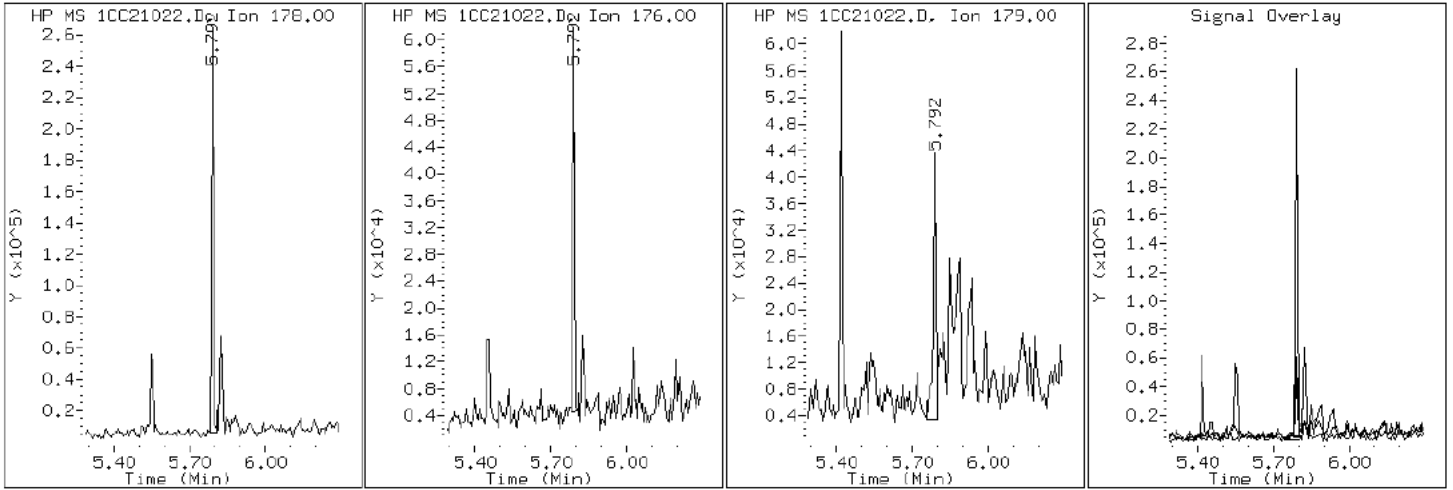
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21022.D

Date: 21-MAR-2013 17:23

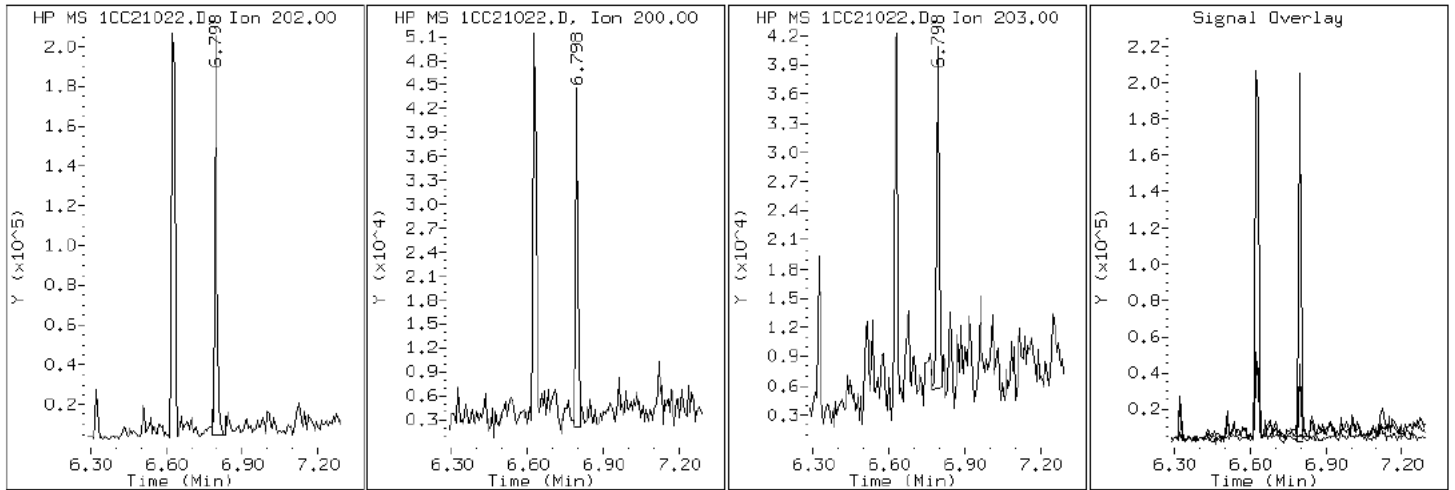
Client ID: FM0170B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-16-a

Operator: SCC

16 Pyrene

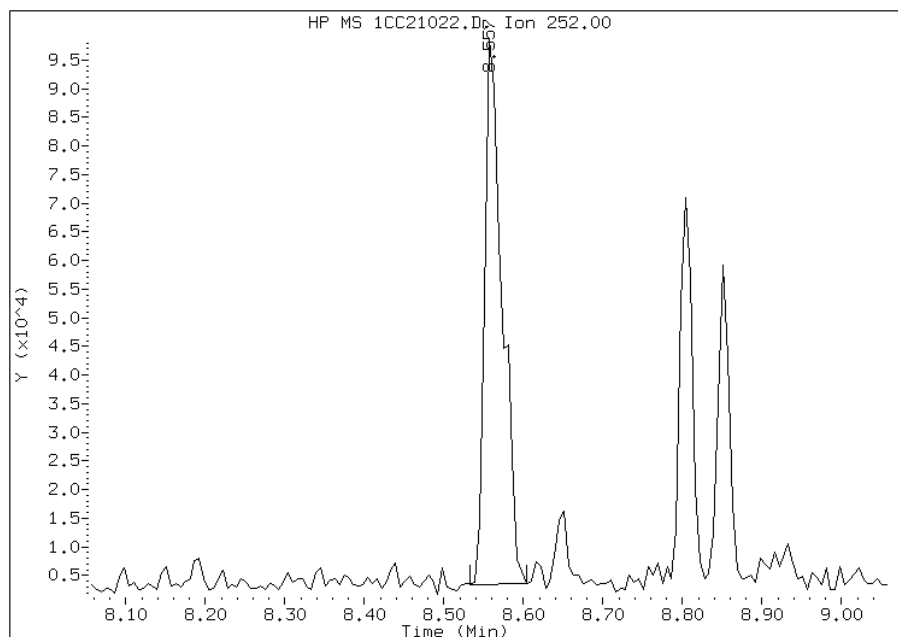


Manual Integration Report

Data File: 1CC21022.D
Inj. Date and Time: 21-MAR-2013 17:23
Instrument ID: BSMC5973.i
Client ID: FM0170B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

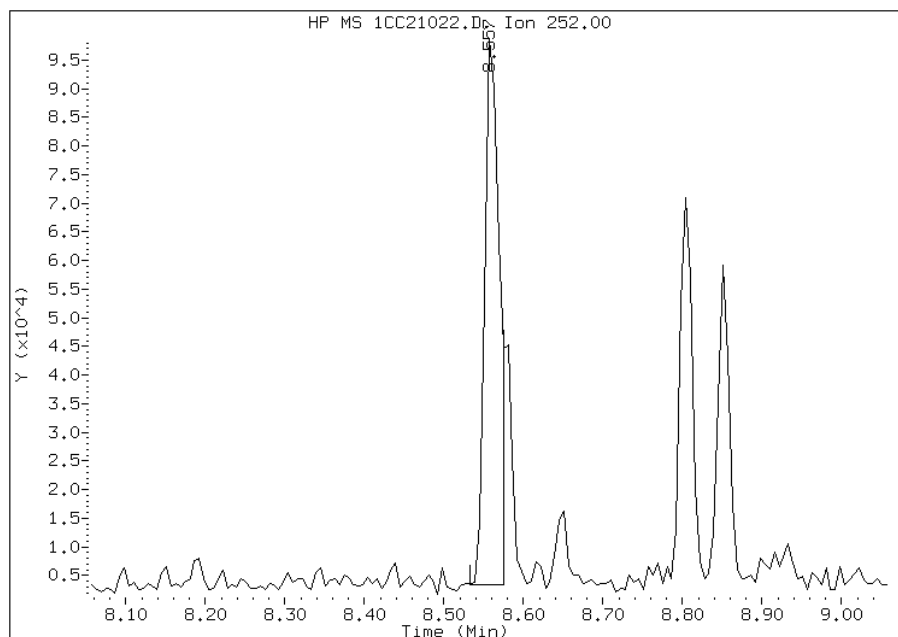
Processing Integration Results

RT: 8.56
Response: 146499
Amount: 4
Conc: 458



Manual Integration Results

RT: 8.56
Response: 121688
Amount: 3
Conc: 381



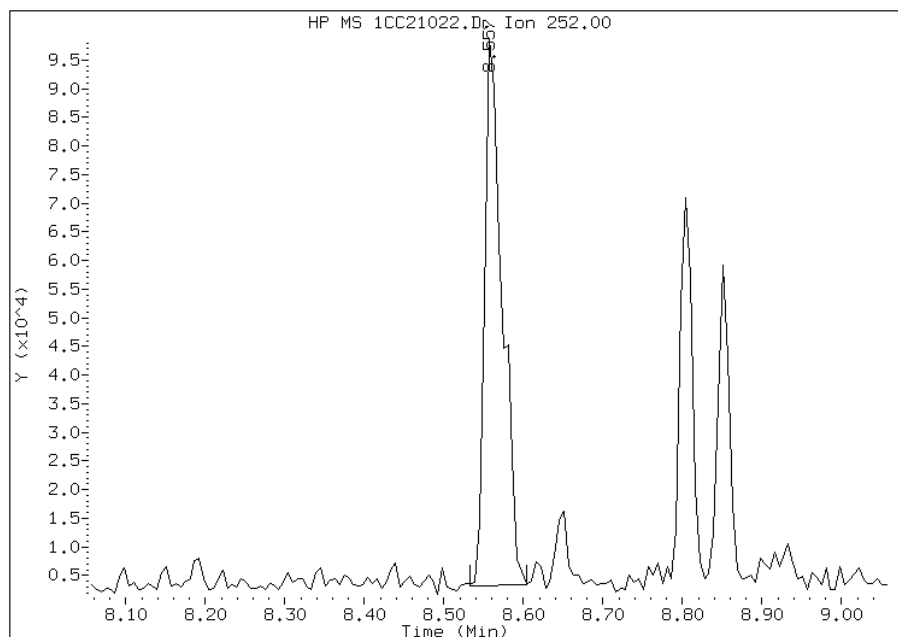
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:26
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21022.D
Inj. Date and Time: 21-MAR-2013 17:23
Instrument ID: BSMC5973.i
Client ID: FM0170B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

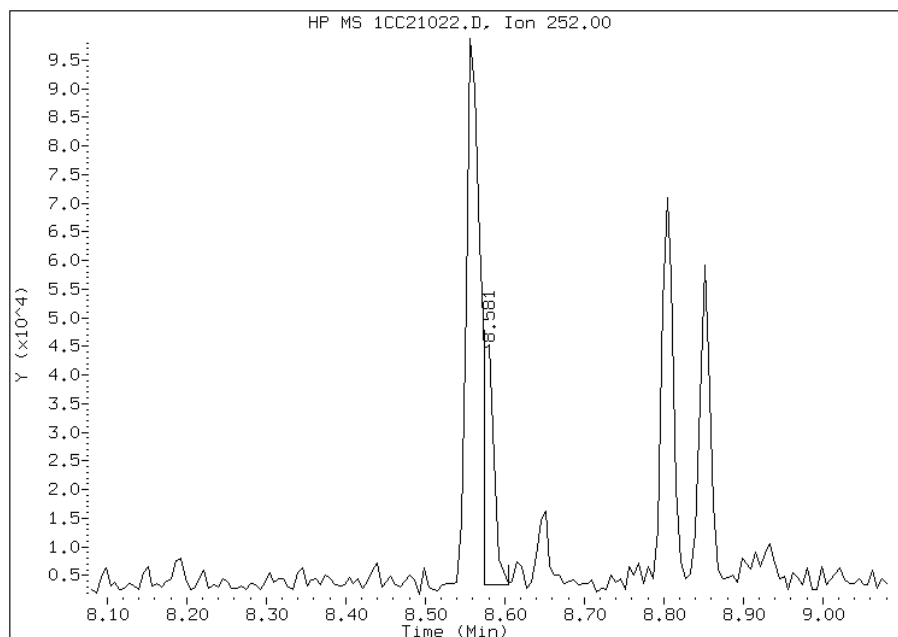
Processing Integration Results

RT: 8.56
Response: 147132
Amount: 4
Conc: 448



Manual Integration Results

RT: 8.58
Response: 39401
Amount: 1
Conc: 120



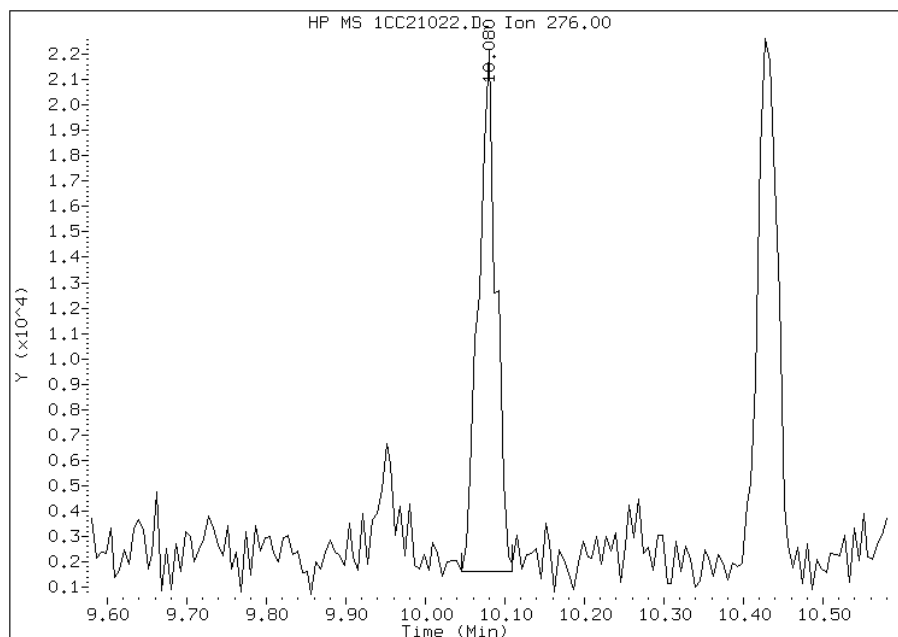
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:26
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21022.D
Inj. Date and Time: 21-MAR-2013 17:23
Instrument ID: BSMC5973.i
Client ID: FM0170B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

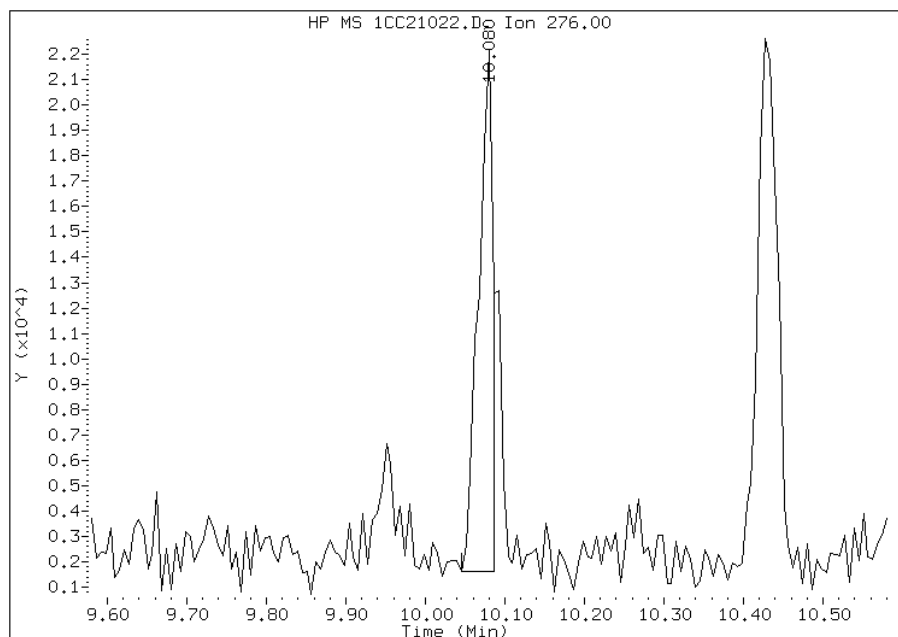
Processing Integration Results

RT: 10.08
Response: 31354
Amount: 1
Conc: 107



Manual Integration Results

RT: 10.08
Response: 25847
Amount: 1
Conc: 88



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0306A-CS Lab Sample ID: 680-88348-17
 Matrix: Solid Lab File ID: 1CC21023.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 09:00
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.16(g) Date Analyzed: 03/21/2013 17:42
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	66	U	66	8.2
120-12-7	Anthracene	72		14	6.9
56-55-3	Benzo[a]anthracene	100		13	6.4
50-32-8	Benzo[a]pyrene	53		17	8.5
205-99-2	Benzo[b]fluoranthene	120		20	10
191-24-2	Benzo[g,h,i]perylene	34		33	7.2
207-08-9	Benzo[k]fluoranthene	93		13	5.9
218-01-9	Chrysene	200		15	7.4
53-70-3	Dibenz(a,h)anthracene	18	J	33	6.7
206-44-0	Fluoranthene	220		33	6.6
86-73-7	Fluorene	54		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	47		33	12
90-12-0	1-Methylnaphthalene	130		66	7.2
91-57-6	2-Methylnaphthalene	140		66	12
91-20-3	Naphthalene	330		66	7.2
85-01-8	Phenanthrene	250		13	6.4
129-00-0	Pyrene	160		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21023.D
 Lab Smp Id: 680-88348-A-17-A Client Smp ID: FM0306A-CS
 Inj Date : 21-MAR-2013 17:42
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-17-a
 Misc Info : 680-88348-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	39.783	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	949167	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	798259	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.774	(1.000)	1451354	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	111225	5.07576	556.0066	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1438354	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1365102	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	75258	3.04560	333.6196(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	20947	1.27083	139.2087	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	17553	1.16926	128.0830(Q)	
9 Fluorene	166		5.168	5.162	(1.071)	12490	0.49371	54.0815(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	94696	2.25645	247.1753	
12 Anthracene	178		5.827	5.821	(1.008)	26813	0.65329	71.5620	
13 Carbazole	167		5.945	5.933	(1.028)	57152	1.56647	171.5936(Q)	
15 Fluoranthene	202		6.633	6.627	(1.148)	91838	1.99827	218.8940	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.798	6.792	(0.880)	57586	1.48979	163.1942
17 Benzo(a)anthracene	228	7.715	7.709	(0.999)	38432	0.92577	101.4099(Q)
19 Chrysene	228	7.739	7.733	(1.002)	75934	1.82776	200.2155
20 Benzo(b)fluoranthene	252	8.562	8.551	(0.961)	39566	1.10906	121.4883(M)
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.962)	30959	0.84594	92.6654(M)
22 Benzo(a)pyrene	252	8.851	8.845	(0.993)	16705	0.48207	52.8072
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.068	(1.131)	14095	0.43239	47.3645(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.086	(1.134)	5376	0.16860	18.4691(Q)
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.170)	10452	0.30651	33.5753

QC Flag Legend

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

Data File: 1CC21023.D

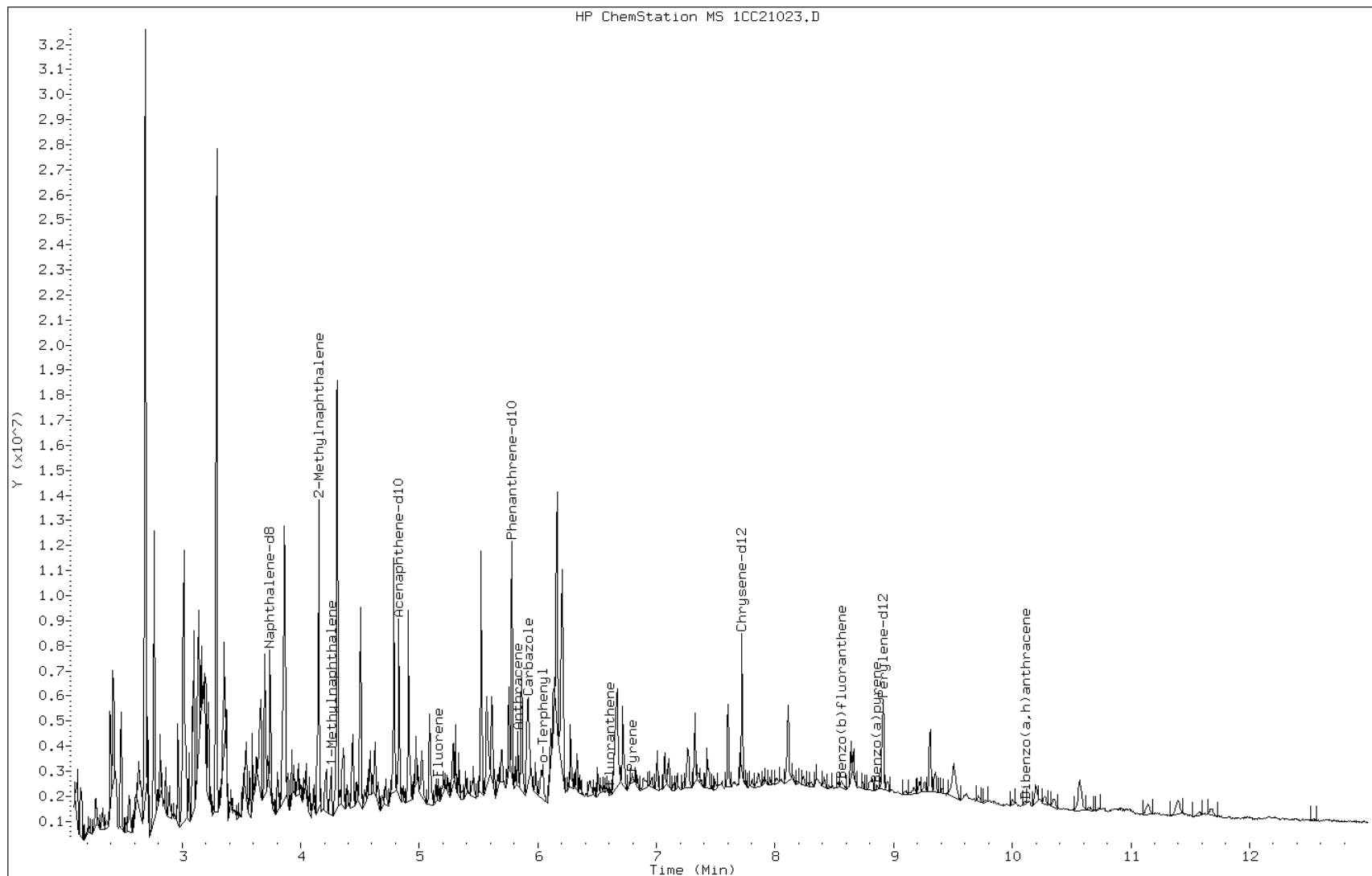
Date: 21-MAR-2013 17:42

Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

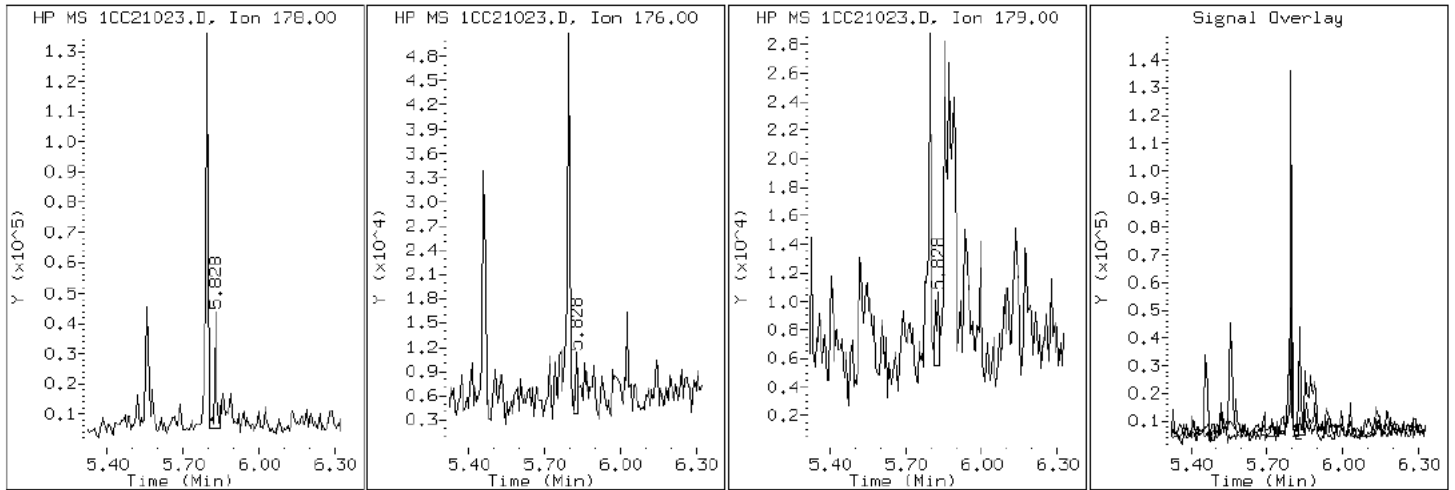
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

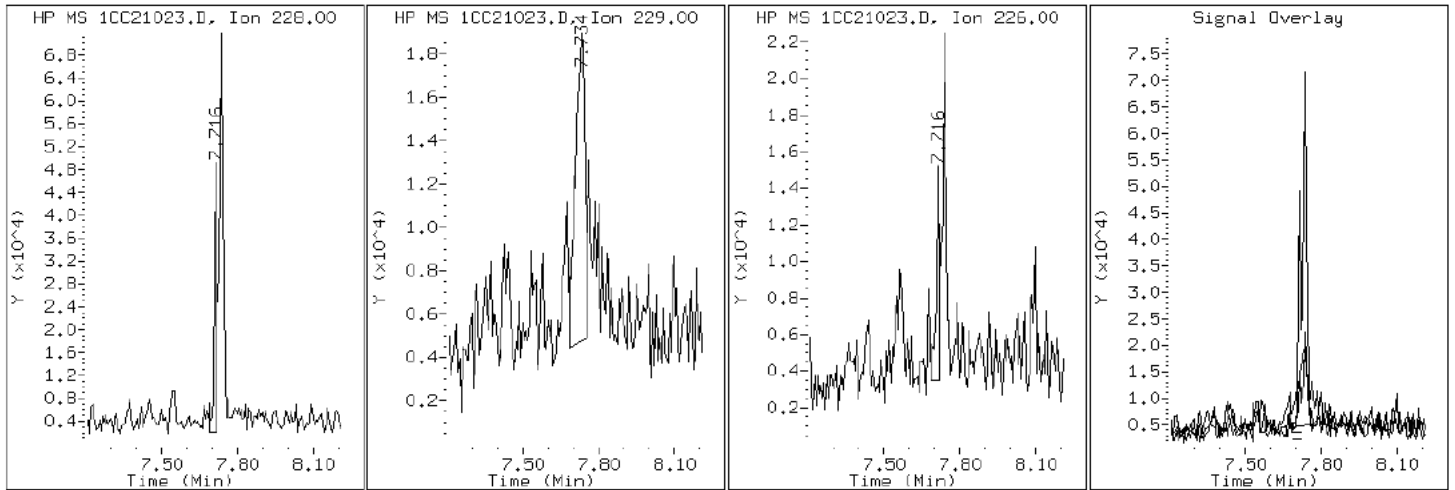
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

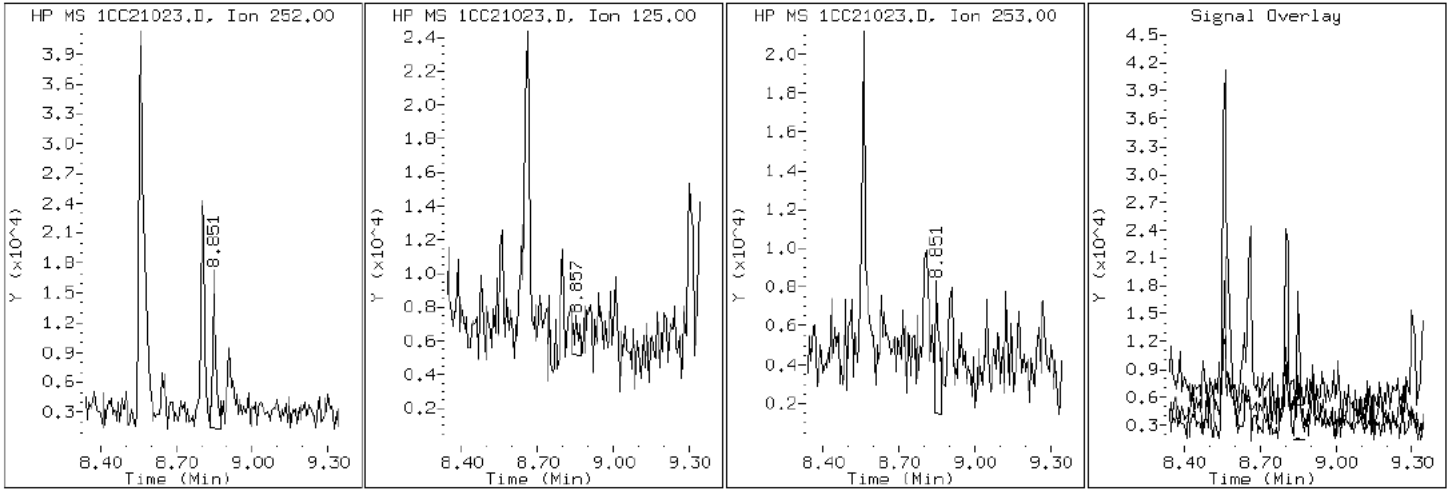
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

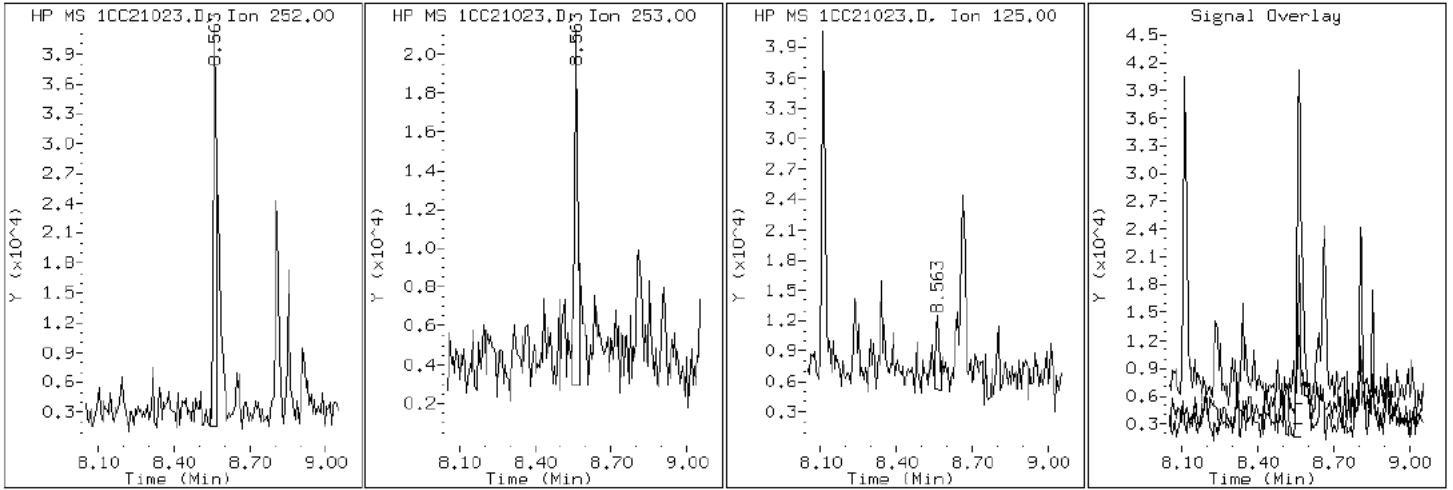
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

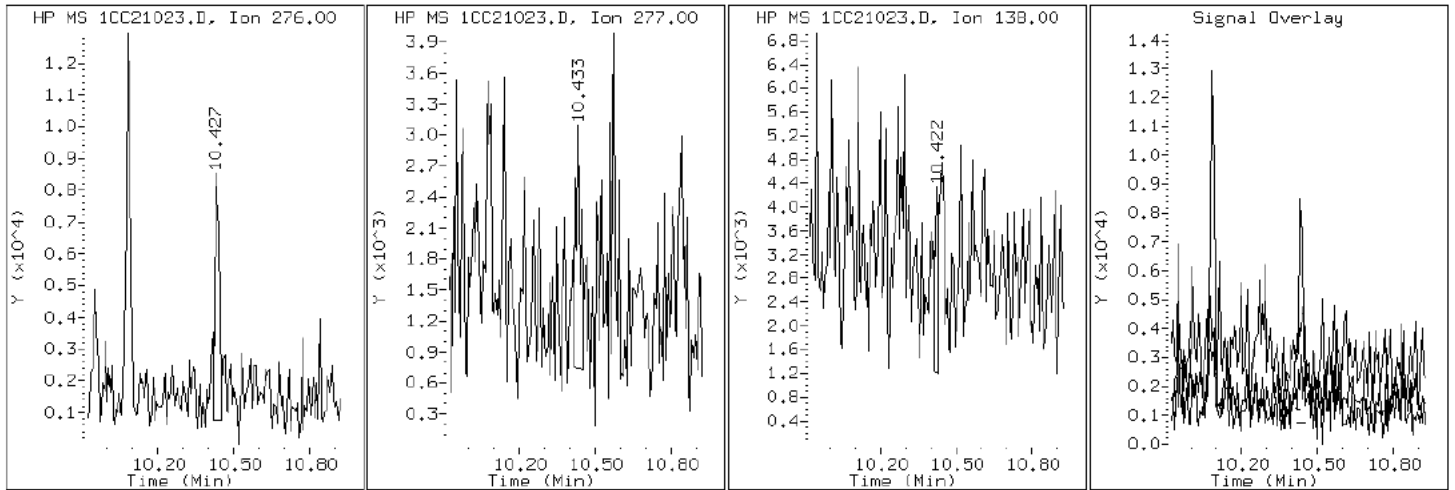
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

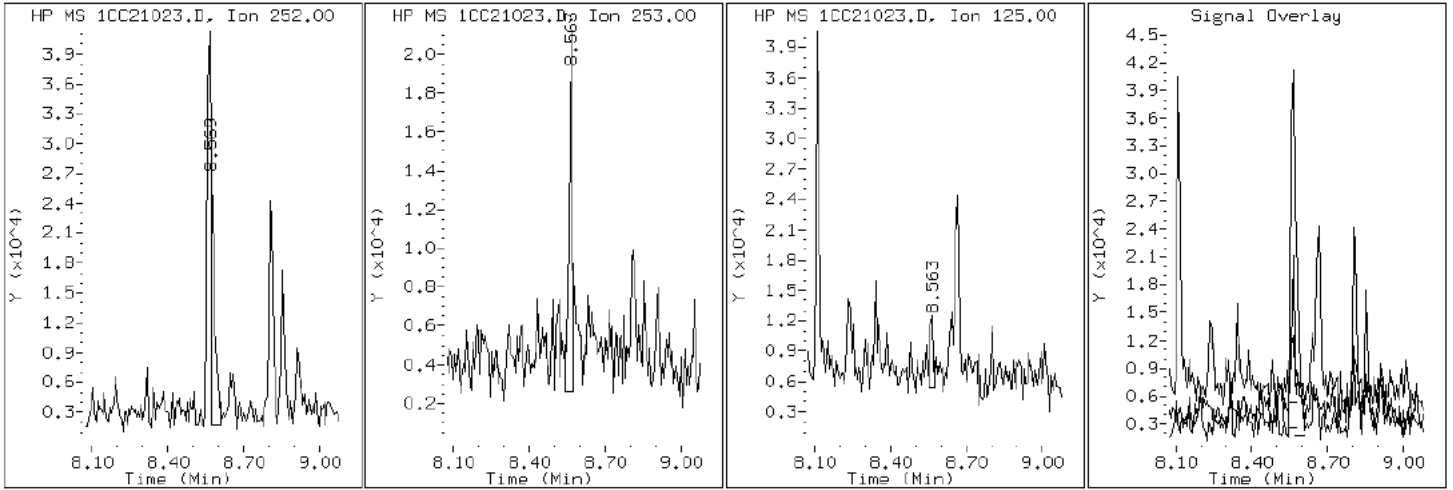
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

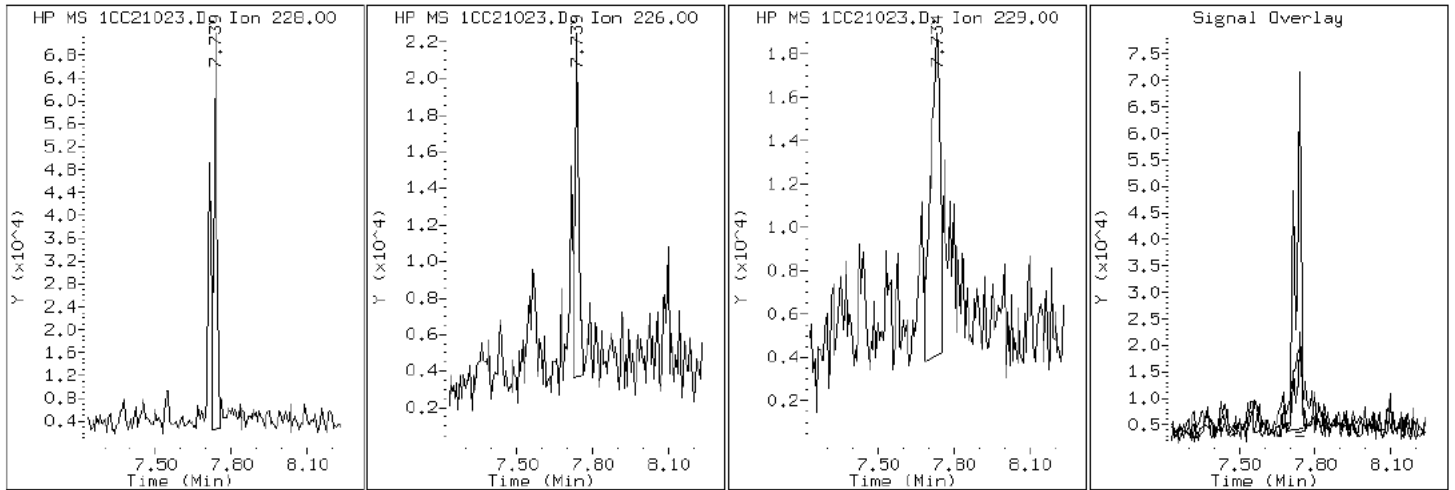
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

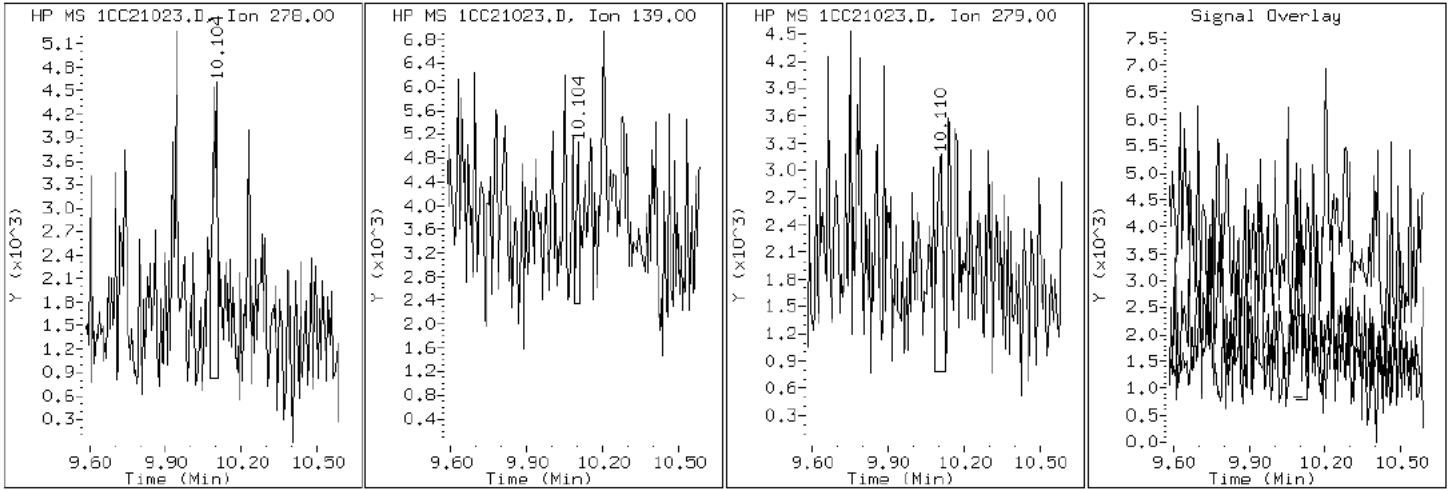
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

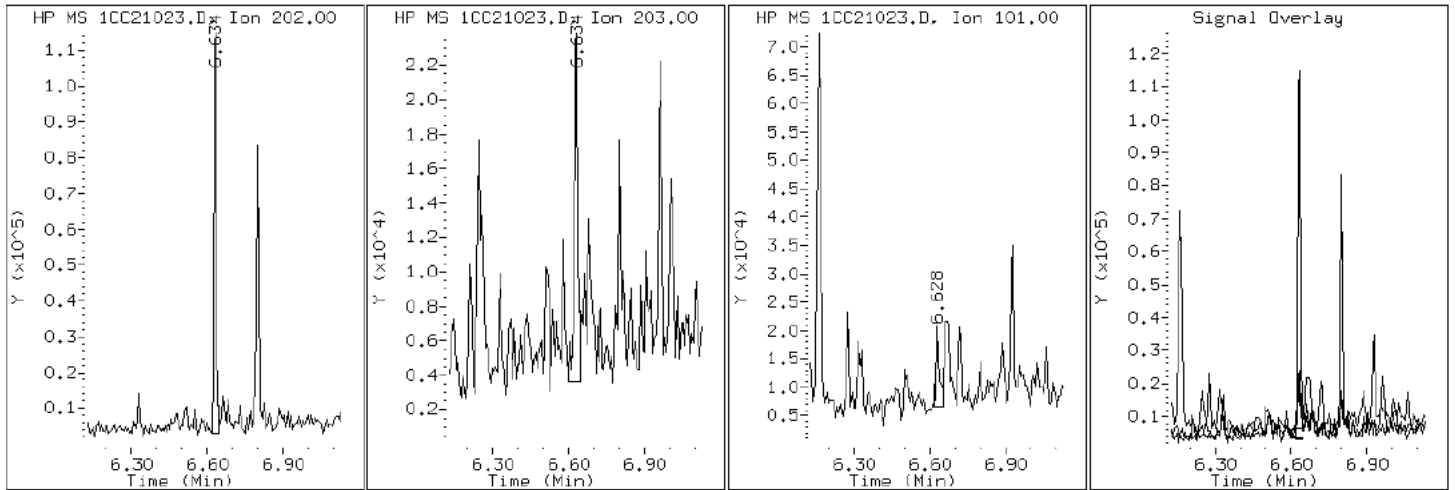
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

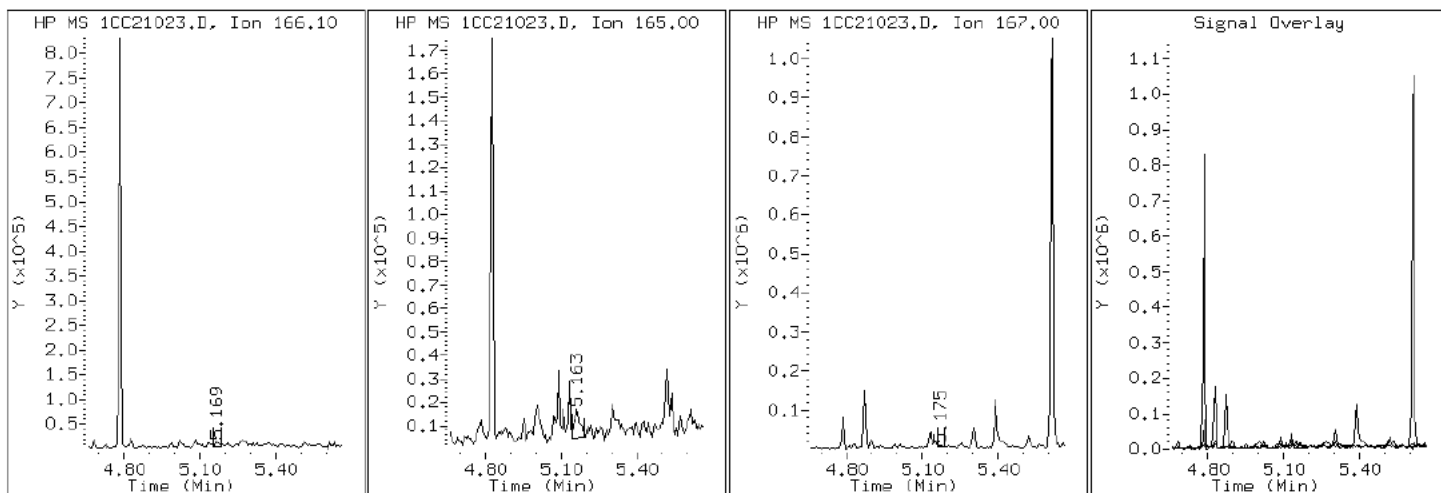
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

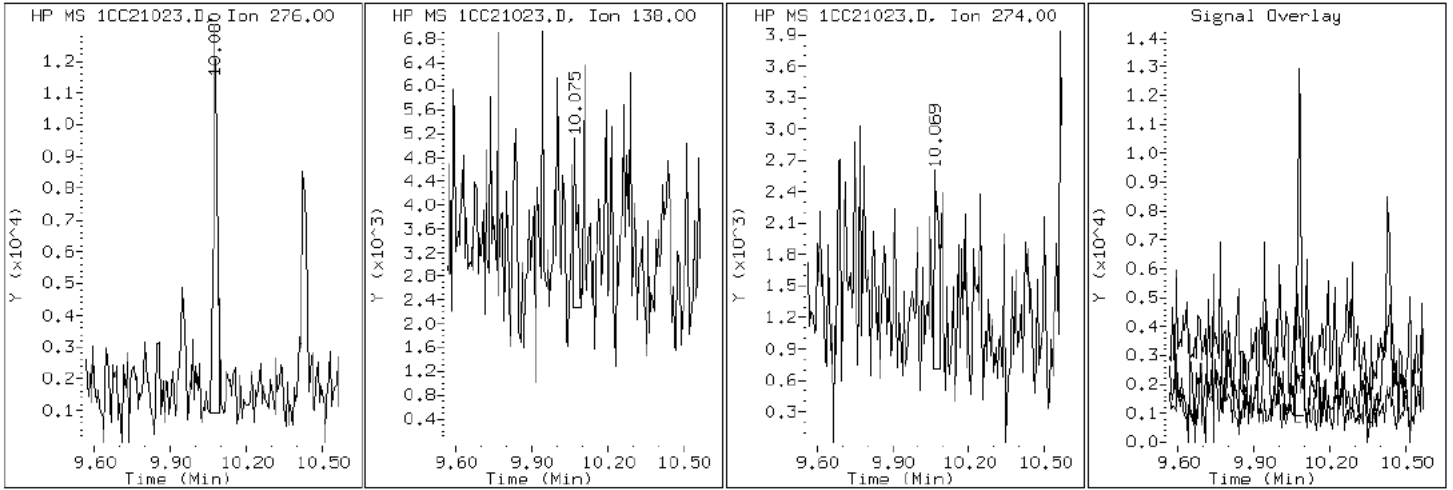
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

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



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

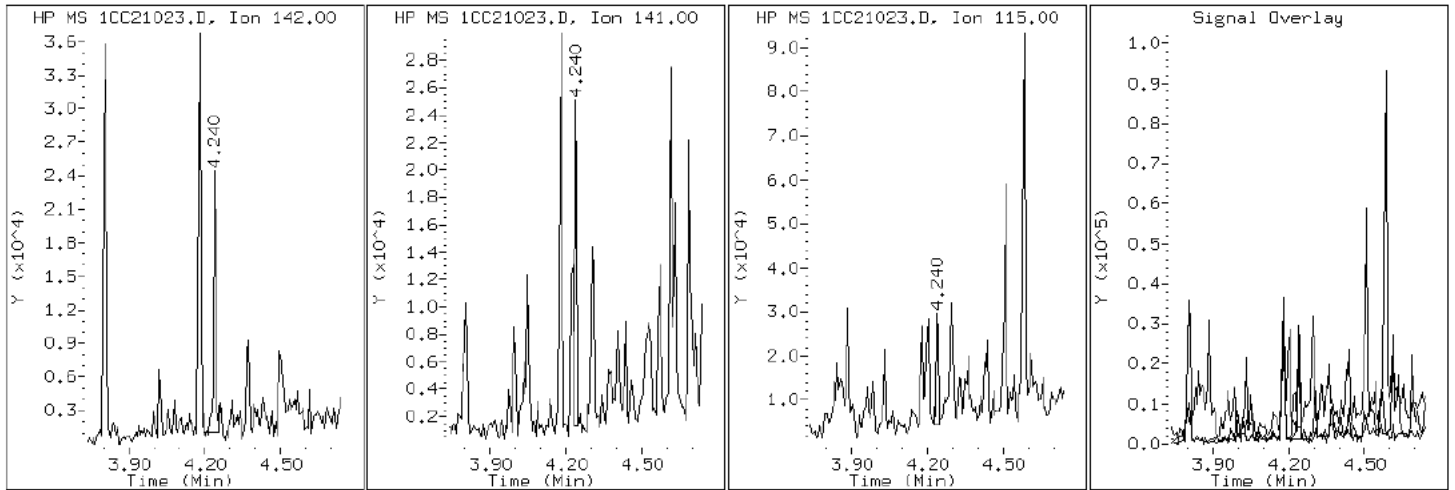
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

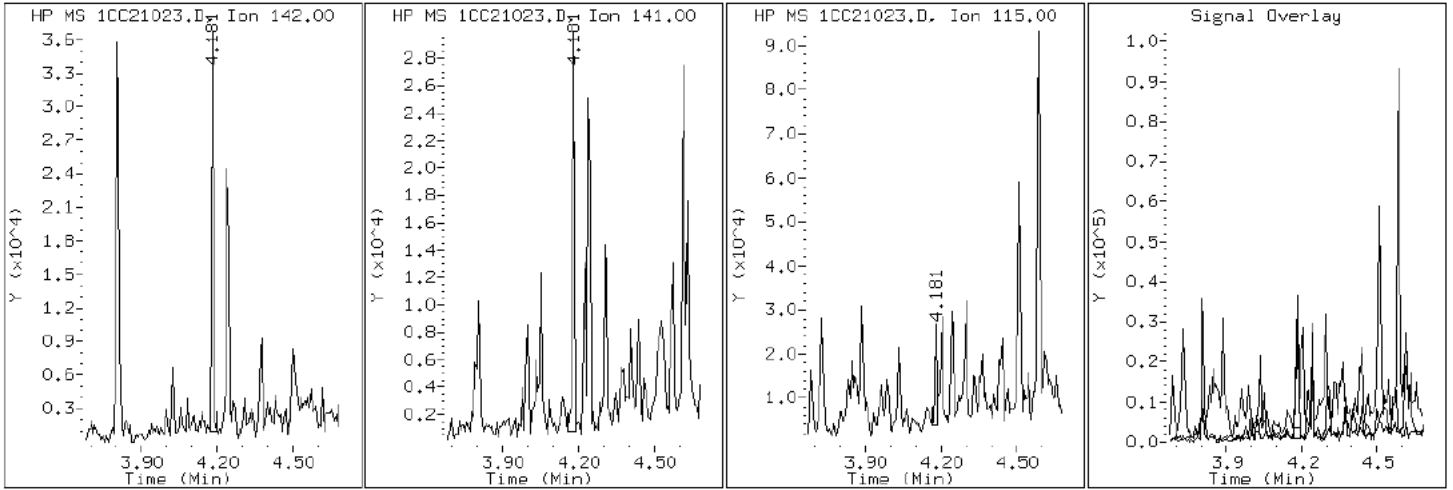
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

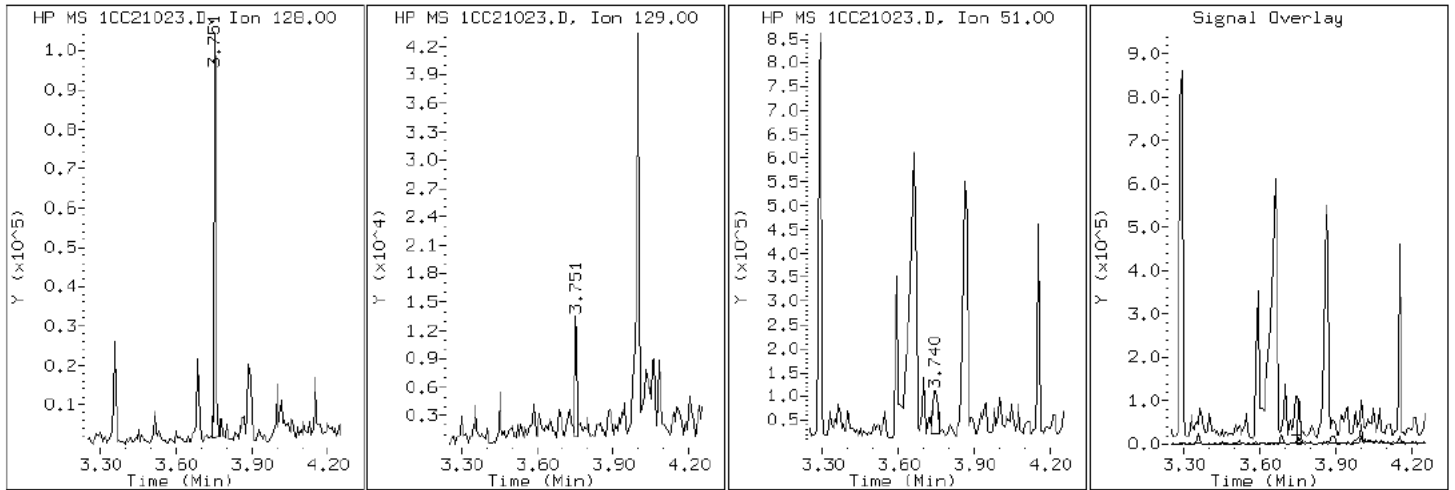
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

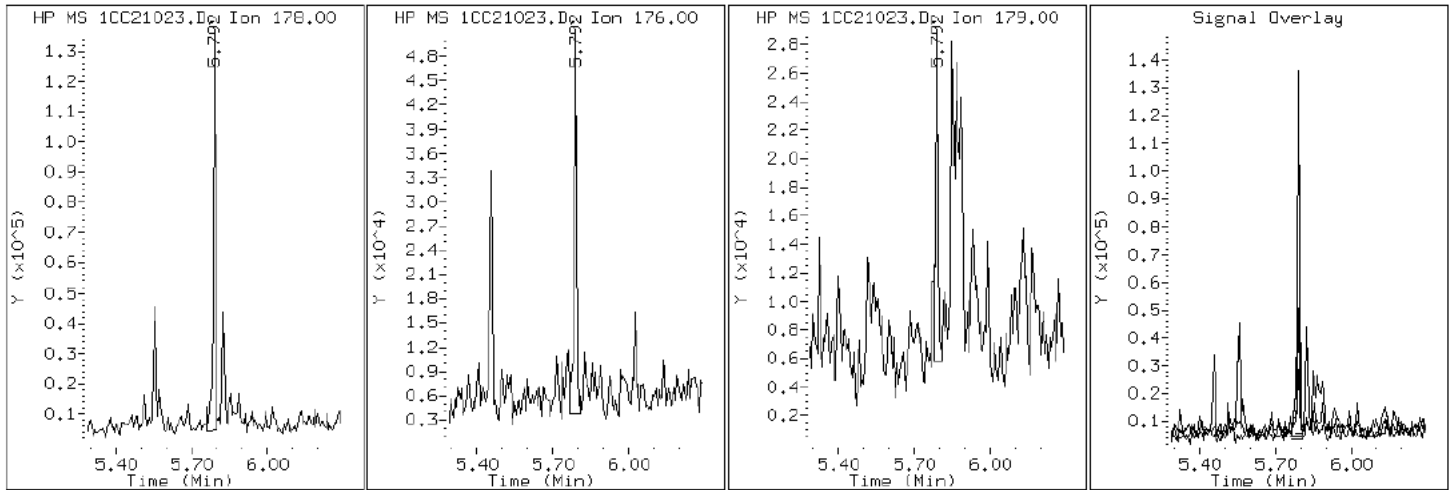
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21023.D

Date: 21-MAR-2013 17:42

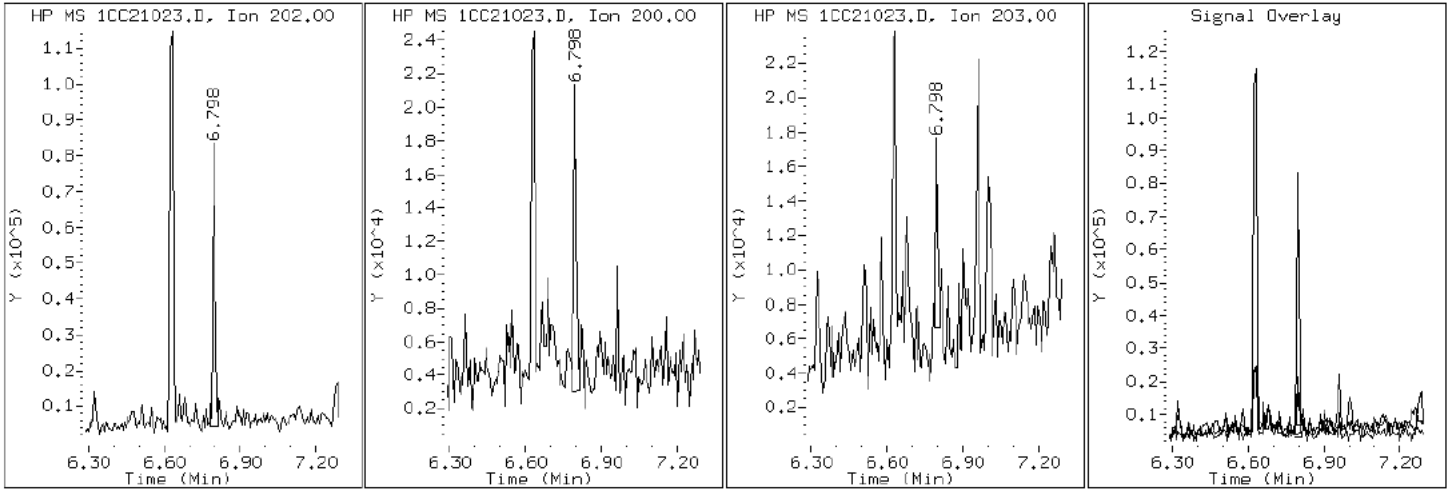
Client ID: FM0306A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-17-a

Operator: SCC

16 Pyrene

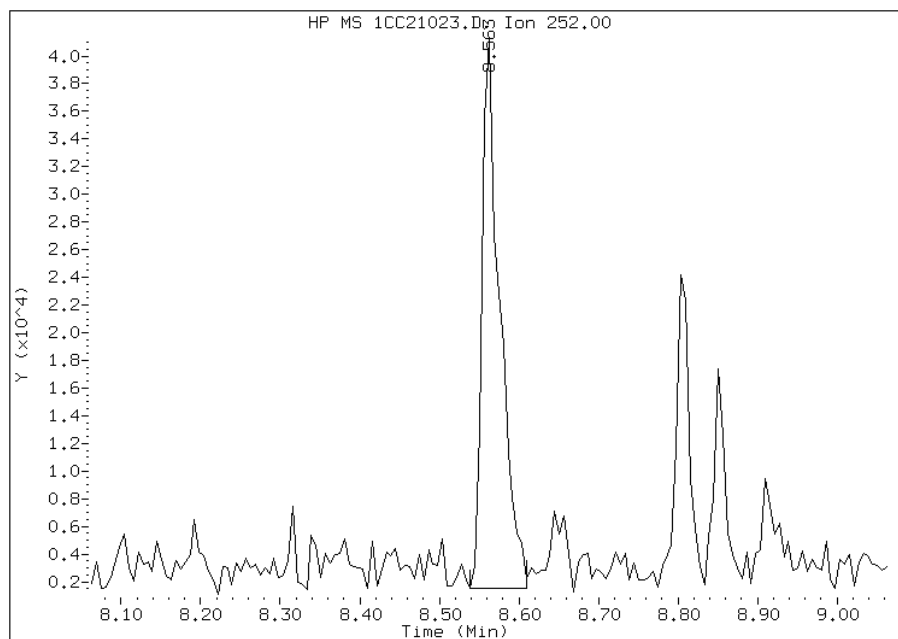


Manual Integration Report

Data File: 1CC21023.D
Inj. Date and Time: 21-MAR-2013 17:42
Instrument ID: BSMC5973.i
Client ID: FM0306A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

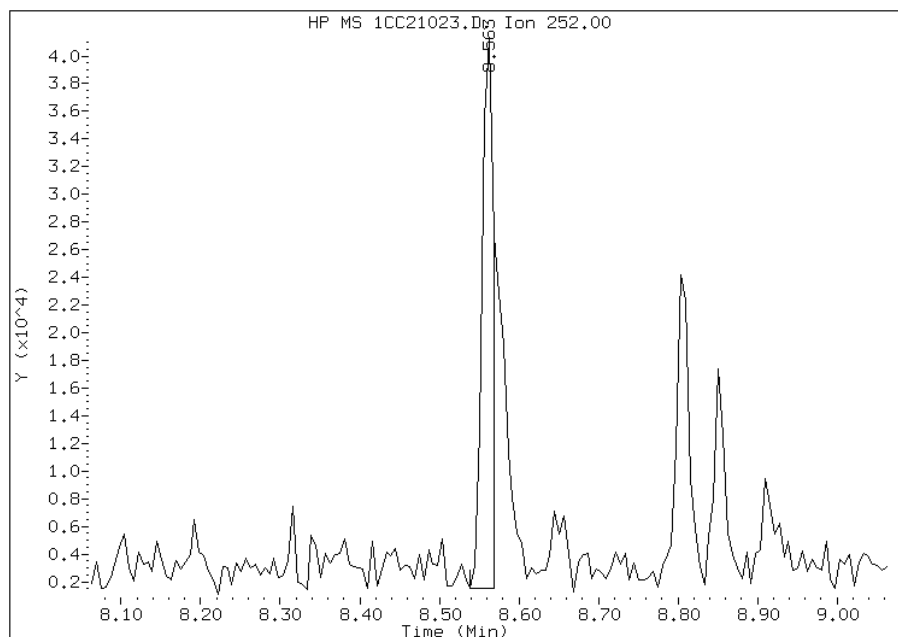
Processing Integration Results

RT: 8.56
Response: 61865
Amount: 2
Conc: 190



Manual Integration Results

RT: 8.56
Response: 39566
Amount: 1
Conc: 121



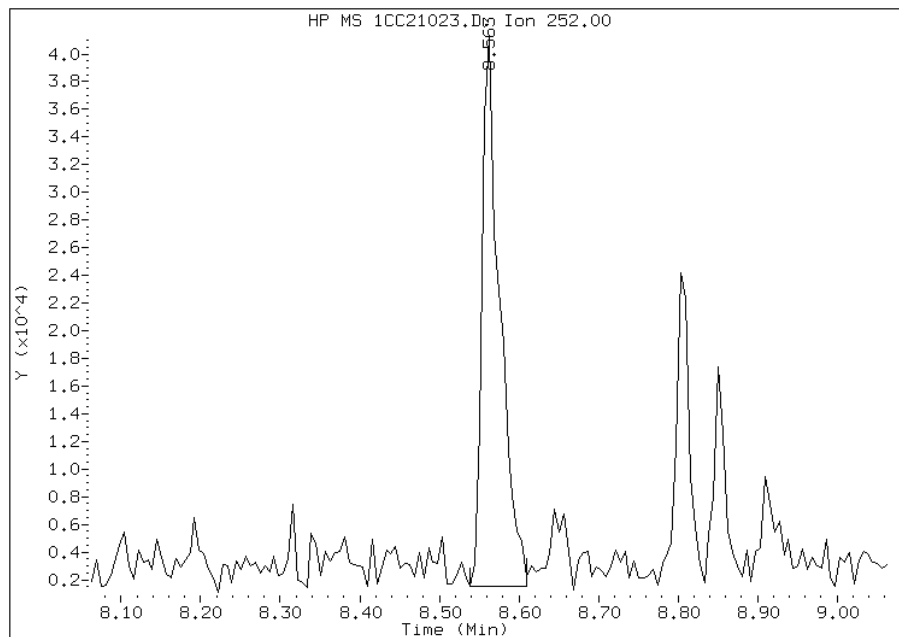
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21023.D
Inj. Date and Time: 21-MAR-2013 17:42
Instrument ID: BSMC5973.i
Client ID: FM0306A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

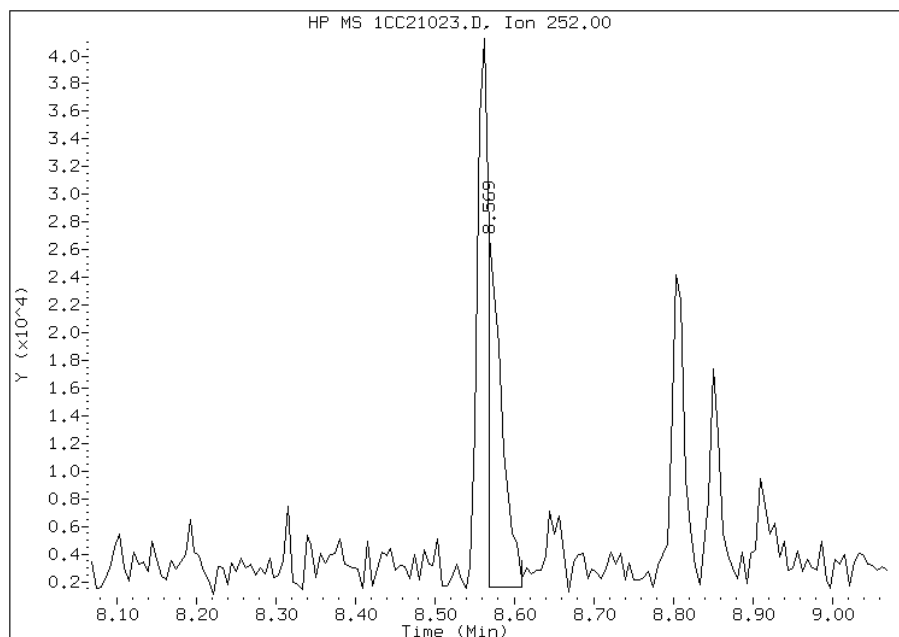
Processing Integration Results

RT: 8.56
Response: 61865
Amount: 2
Conc: 185



Manual Integration Results

RT: 8.57
Response: 30959
Amount: 1
Conc: 93



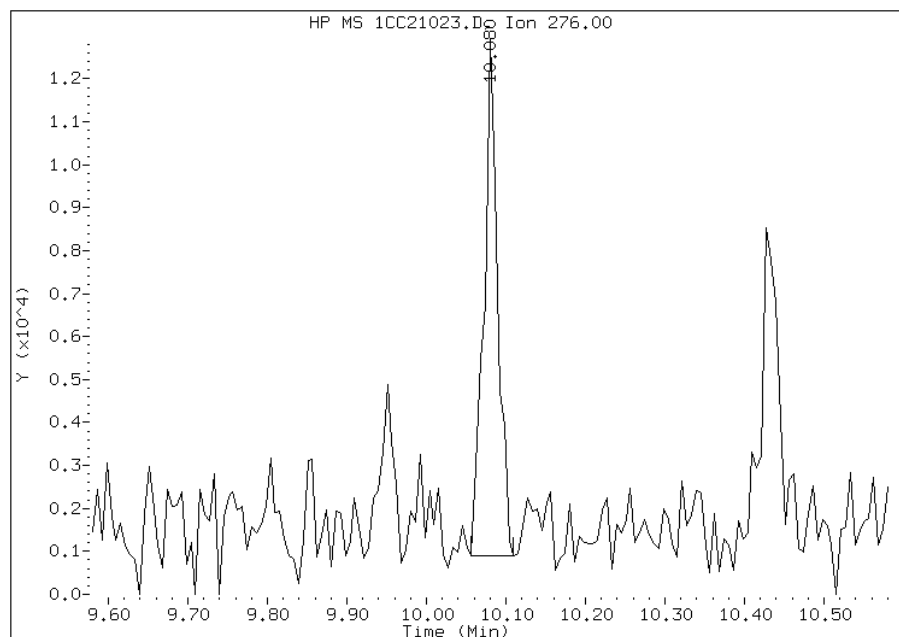
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21023.D
Inj. Date and Time: 21-MAR-2013 17:42
Instrument ID: BSMC5973.i
Client ID: FM0306A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

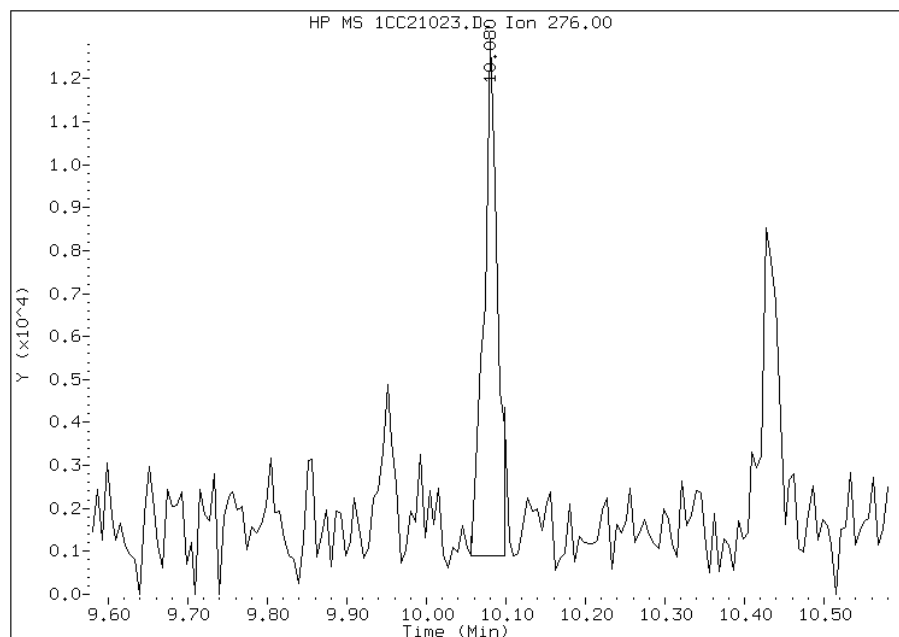
Processing Integration Results

RT: 10.08
Response: 14213
Amount: 0
Conc: 48



Manual Integration Results

RT: 10.08
Response: 14095
Amount: 0
Conc: 47



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0124A-CS Lab Sample ID: 680-88348-18
 Matrix: Solid Lab File ID: 1CC21024.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 12:20
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.13(g) Date Analyzed: 03/21/2013 18:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 44.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	710	U	710	140
208-96-8	Acenaphthylene	280	U	280	36
120-12-7	Anthracene	50	J	60	30
56-55-3	Benzo[a]anthracene	170		57	28
50-32-8	Benzo[a]pyrene	66	J	74	37
205-99-2	Benzo[b]fluoranthene	220		87	43
191-24-2	Benzo[g,h,i]perylene	120	J	140	31
207-08-9	Benzo[k]fluoranthene	93		57	26
218-01-9	Chrysene	320		64	32
53-70-3	Dibenz(a,h)anthracene	34	J	140	29
206-44-0	Fluoranthene	230		140	28
86-73-7	Fluorene	53	J	140	29
193-39-5	Indeno[1,2,3-cd]pyrene	70	J	140	50
90-12-0	1-Methylnaphthalene	220	J	280	31
91-57-6	2-Methylnaphthalene	240	J	280	50
91-20-3	Naphthalene	210	J	280	31
85-01-8	Phenanthrene	360		57	28
129-00-0	Pyrene	240		140	26

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\1C032113.b\1CC21024.D
 Lab Smp Id: 680-88348-A-18-A Client Smp ID: FM0124A-CS
 Inj Date : 21-MAR-2013 18:00
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-18-a
 Misc Info : 680-88348-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 23
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	44.156	% 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		3.739	3.739	(1.000)	968903	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	784703	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1368114	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	29871	1.44610	684.6093	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1450668	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1340002	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	11249	0.44596	211.1250(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	8405	0.49953	236.4880	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	7205	0.47017	222.5876	
9 Fluorene	166		5.168	5.162	(1.071)	2799	0.11255	53.2834	
11 Phenanthrene	178		5.792	5.792	(1.003)	30299	0.76590	362.5912	
12 Anthracene	178		5.827	5.821	(1.009)	4072	0.10525	49.8265	
13 Carbazole	167		5.933	5.933	(1.028)	4894	0.14230	67.3673(Q)	
15 Fluoranthene	202		6.627	6.627	(1.148)	21410	0.49420	233.9611	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.798	6.792 (0.880)		19498	0.50015	236.7773
17 Benzo(a)anthracene	228	7.715	7.709 (0.999)		15474	0.36958	174.9655
19 Chrysene	228	7.739	7.733 (1.002)		28051	0.66947	316.9363
20 Benzo(b)fluoranthene	252	8.556	8.551 (0.960)		16131	0.46063	218.0710(M)
21 Benzo(k)fluoranthene	252	8.574	8.574 (0.962)		7040	0.19597	92.7742(QM)
22 Benzo(a)pyrene	252	8.850	8.845 (0.993)		4713	0.13856	65.5946
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068 (1.131)		4748	0.14838	70.2461(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.086 (1.133)		2235	0.07141	33.8055(QM)
26 Benzo(g,h,i)perylene	276	10.421	10.421 (1.170)		8733	0.26089	123.5119(QM)

QC Flag Legend

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

Data File: 1CC21024.D

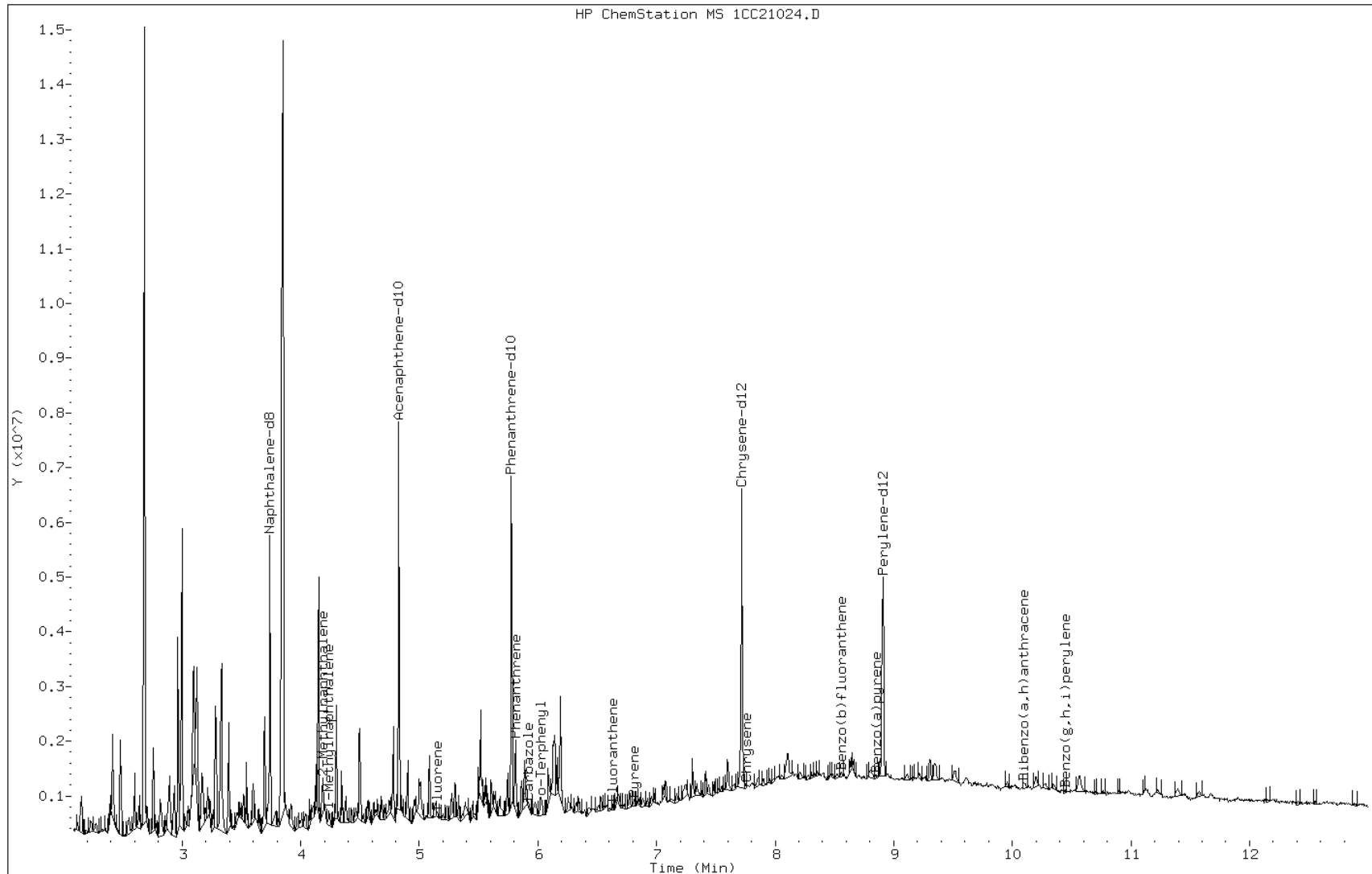
Date: 21-MAR-2013 18:00

Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

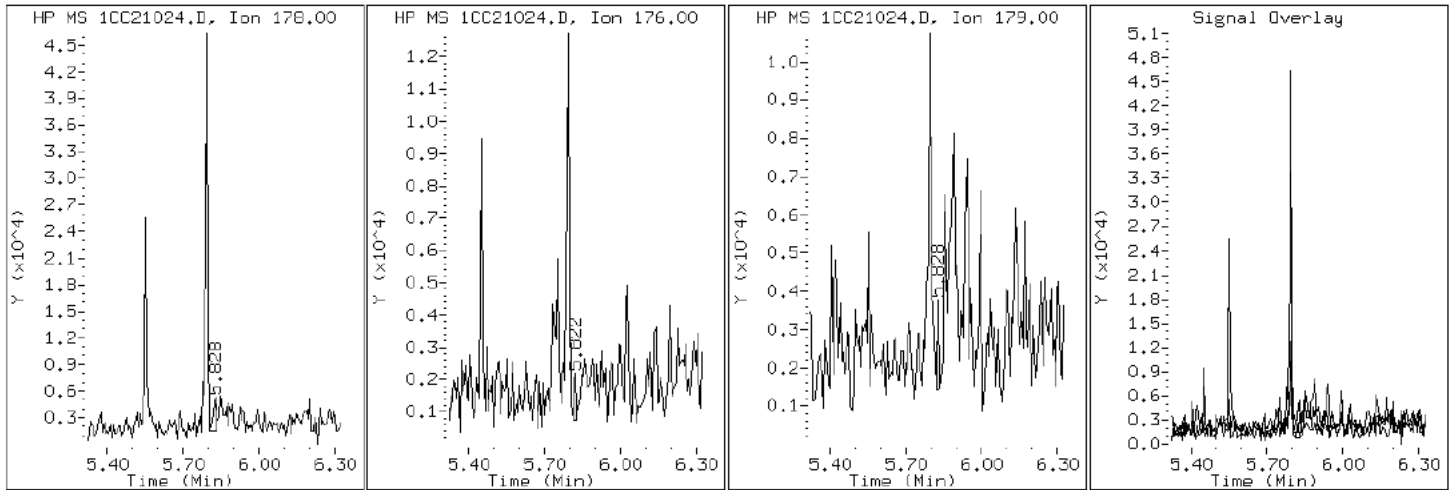
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

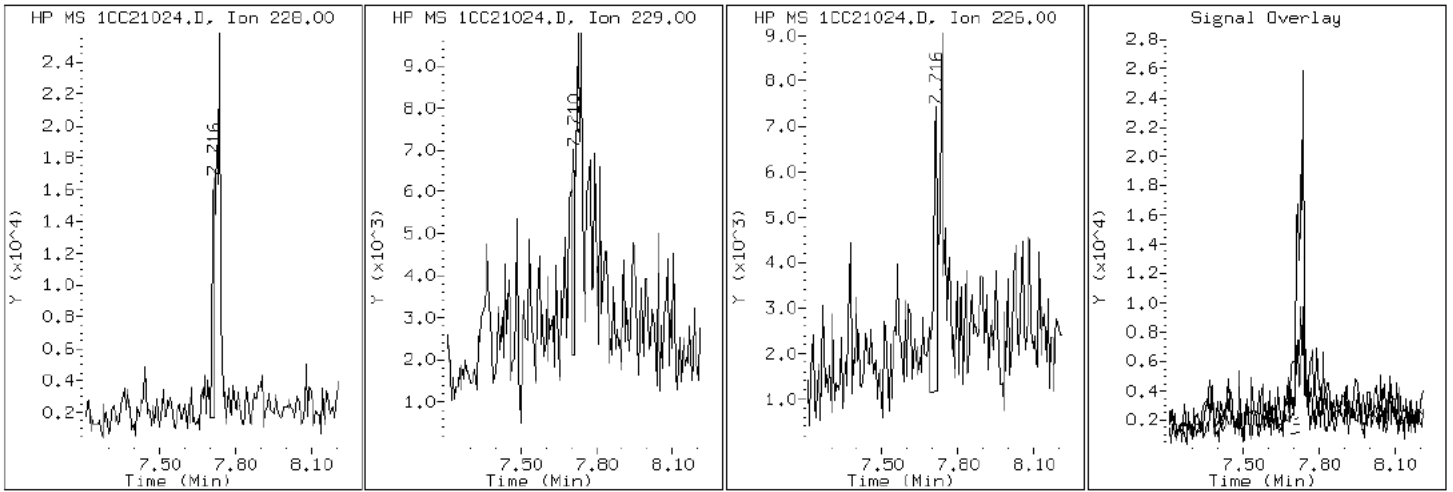
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

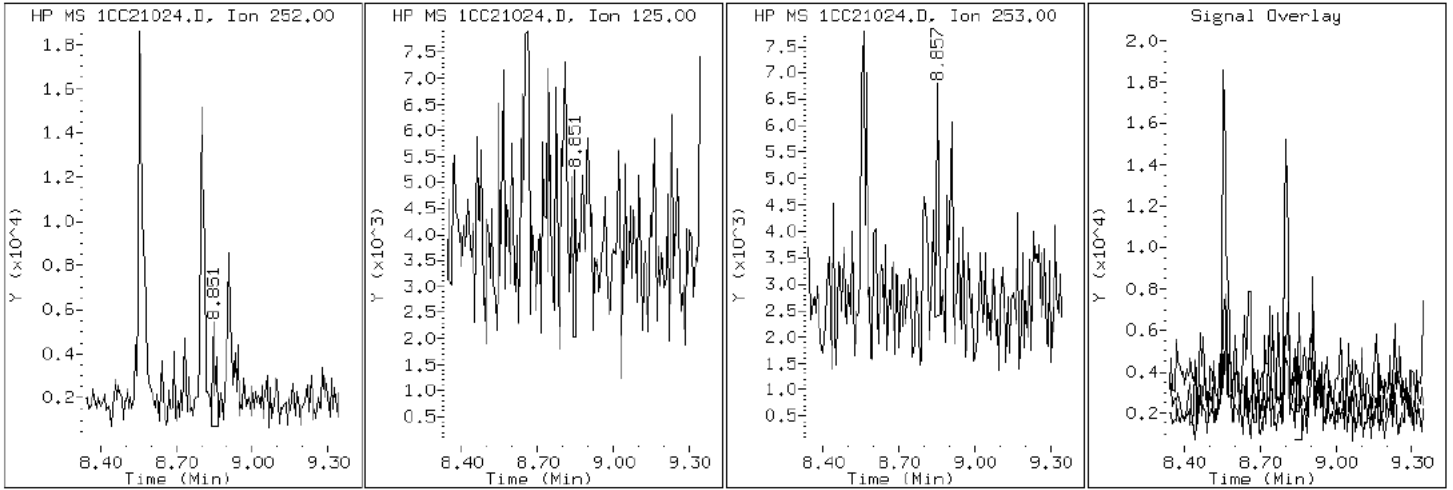
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

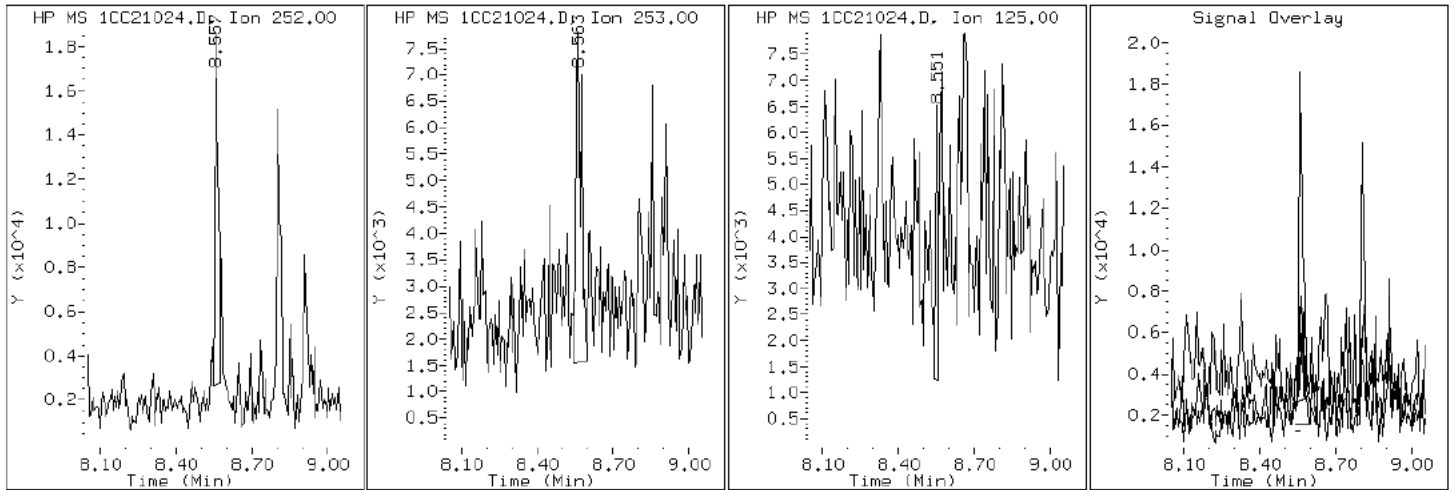
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

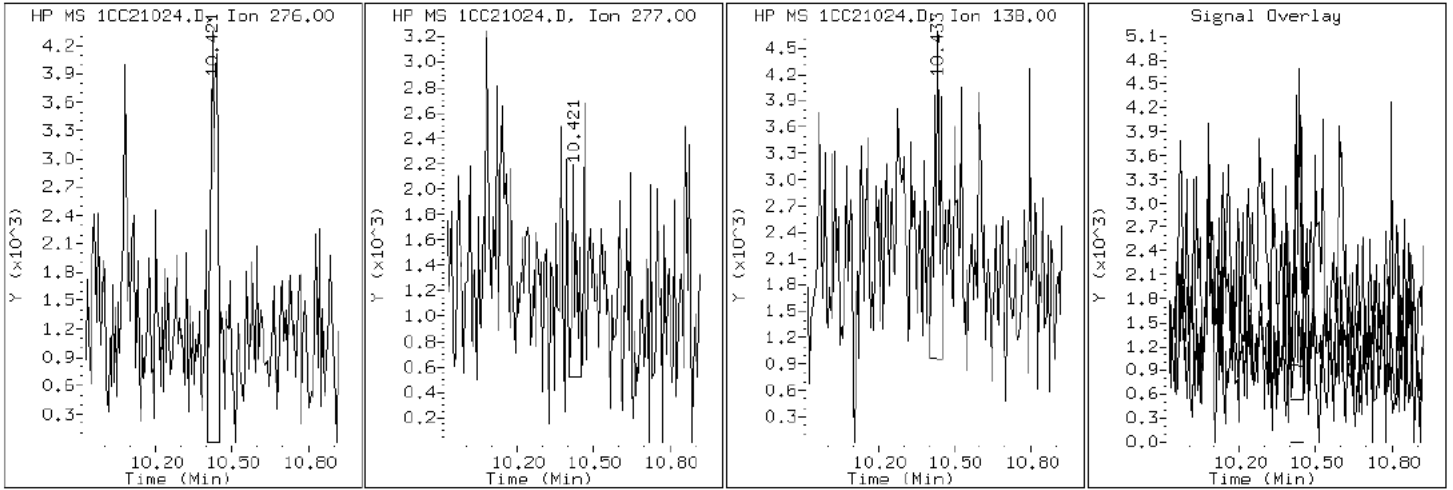
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

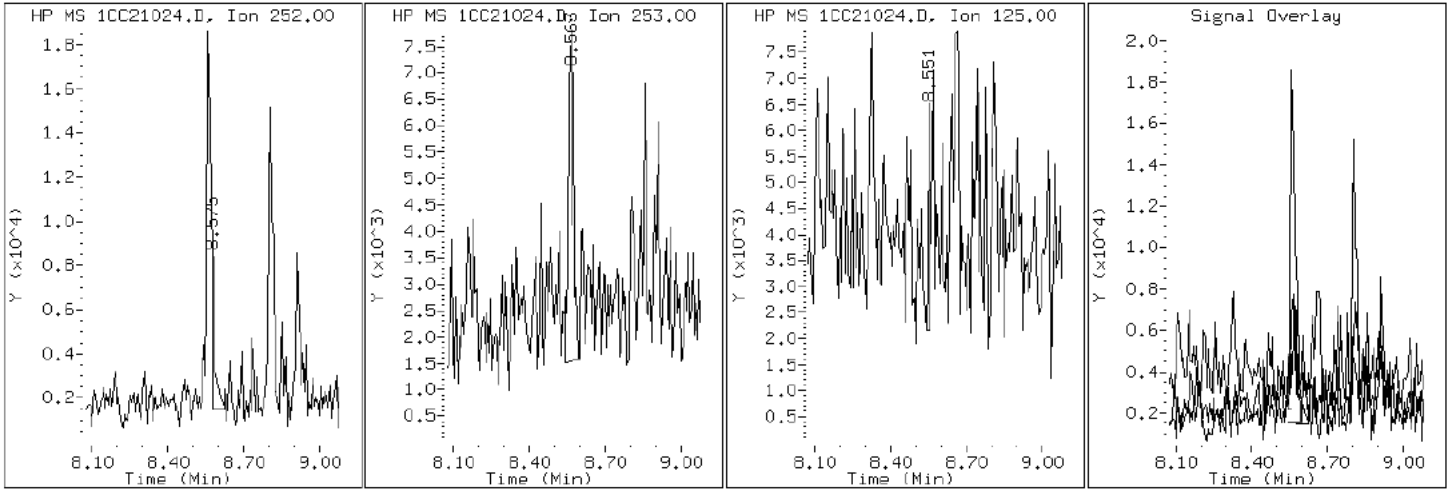
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

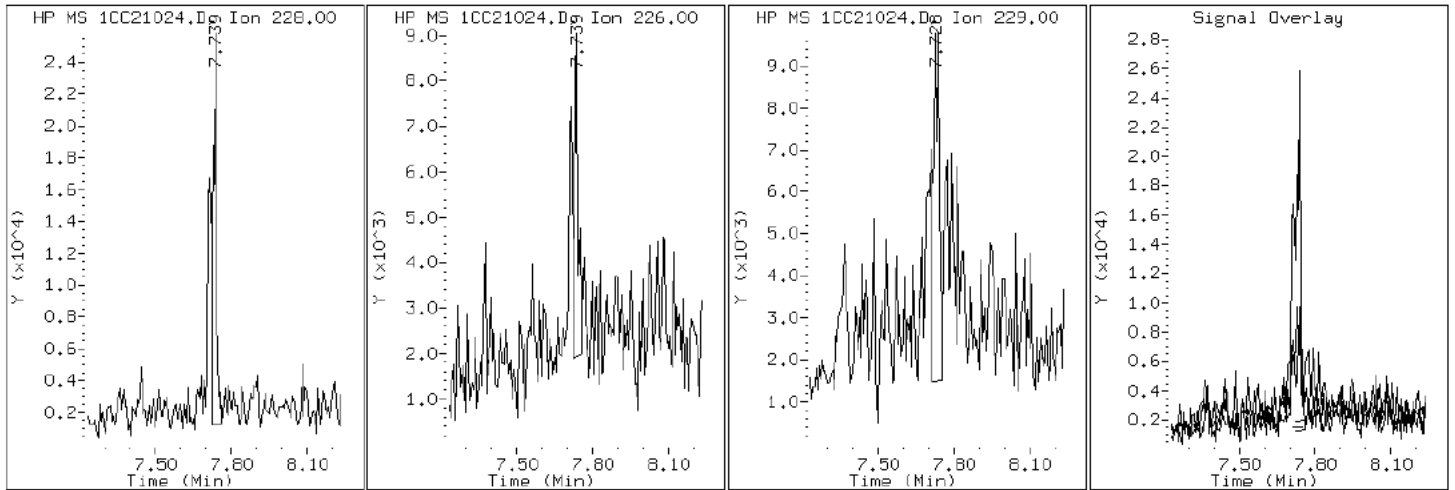
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

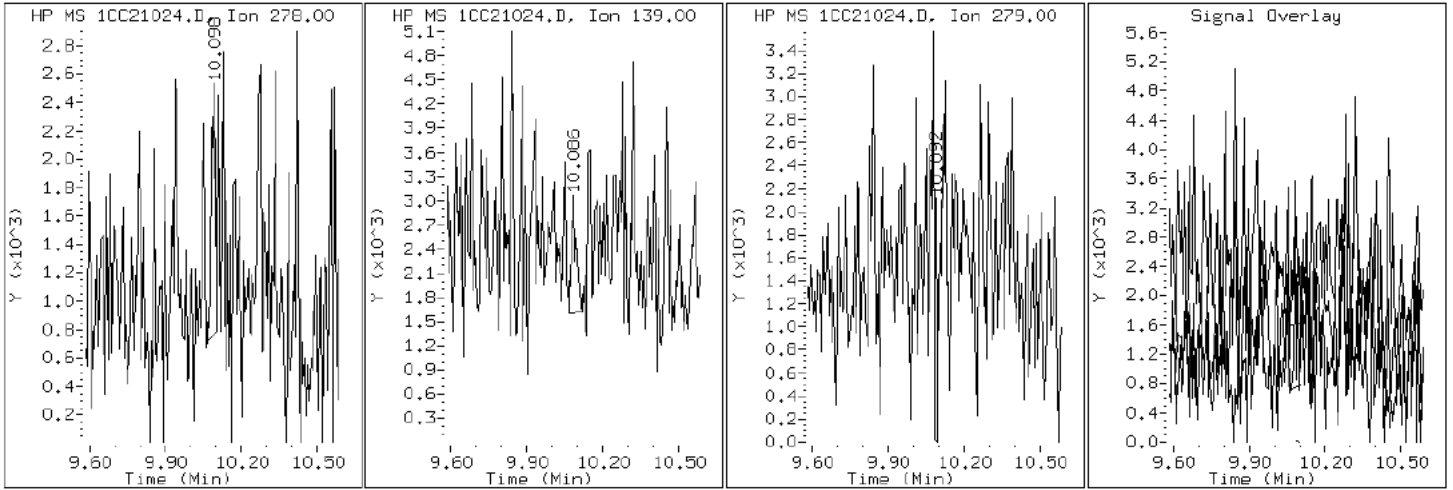
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

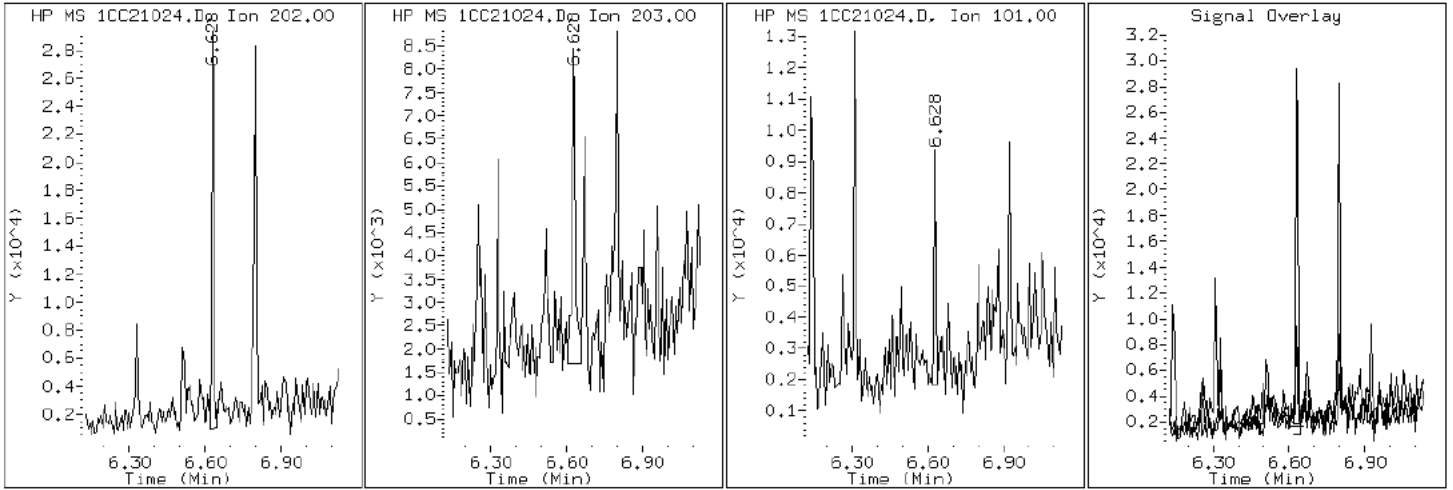
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

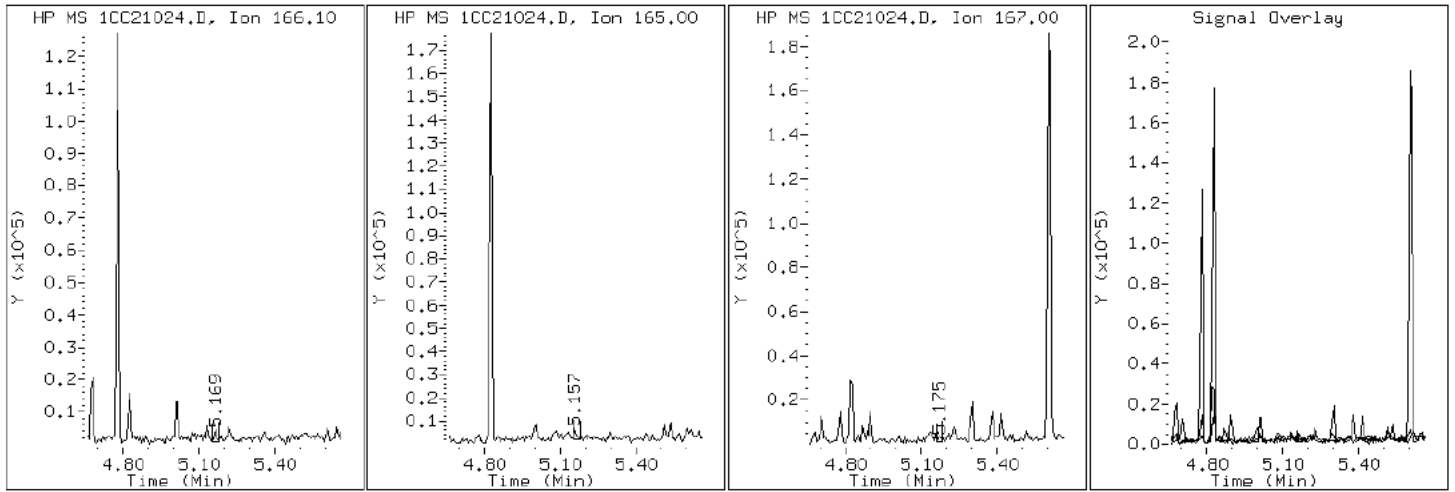
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

9 Fluorene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

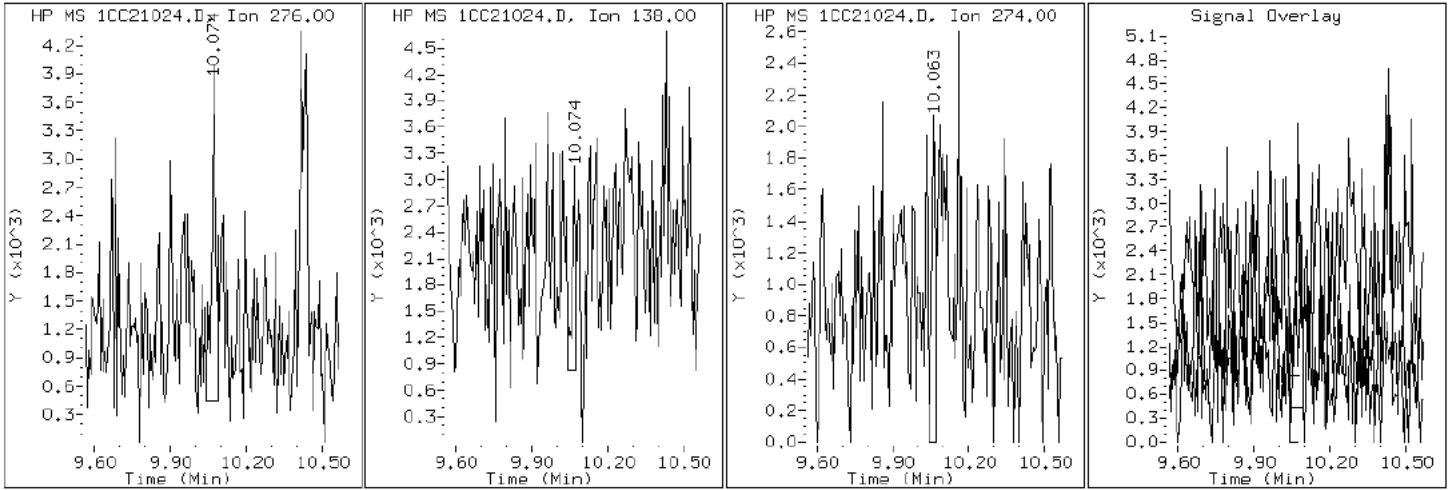
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

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



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

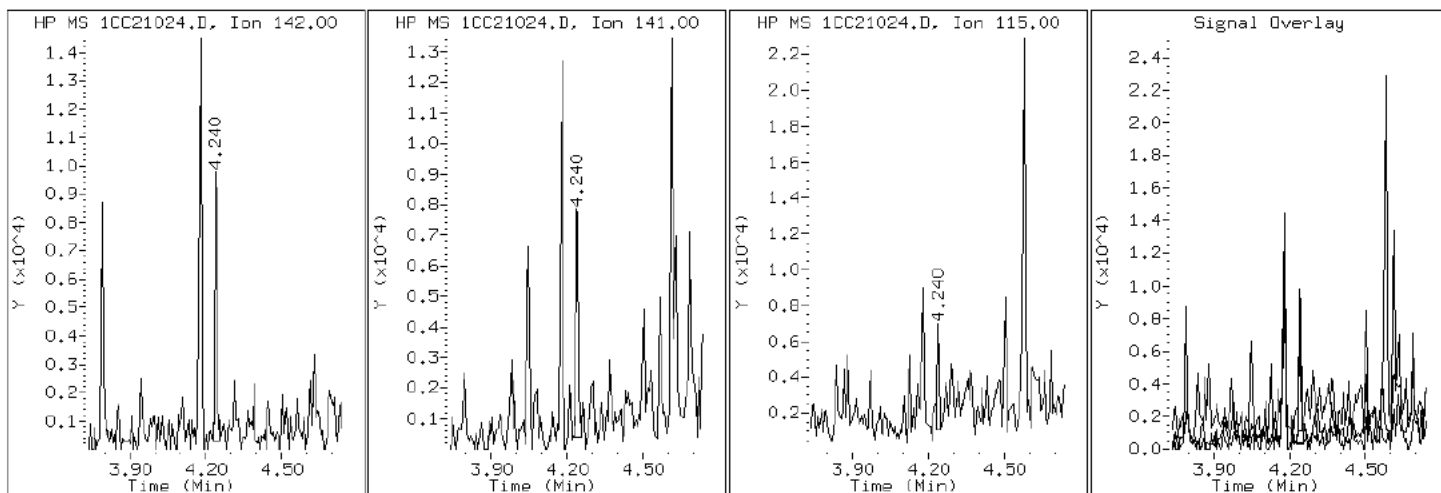
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

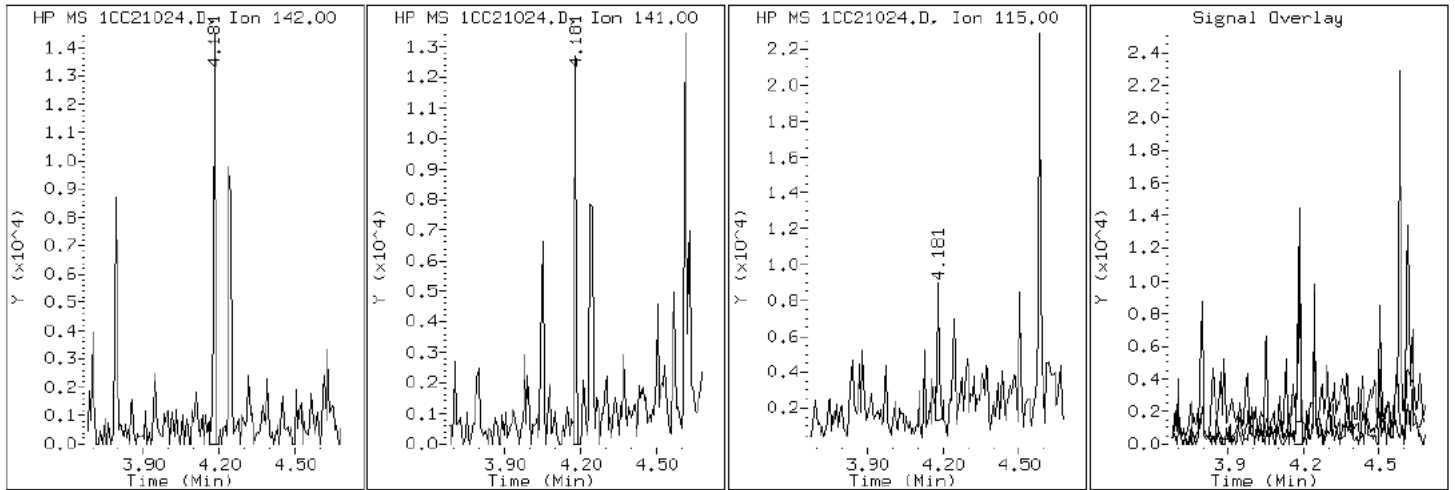
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

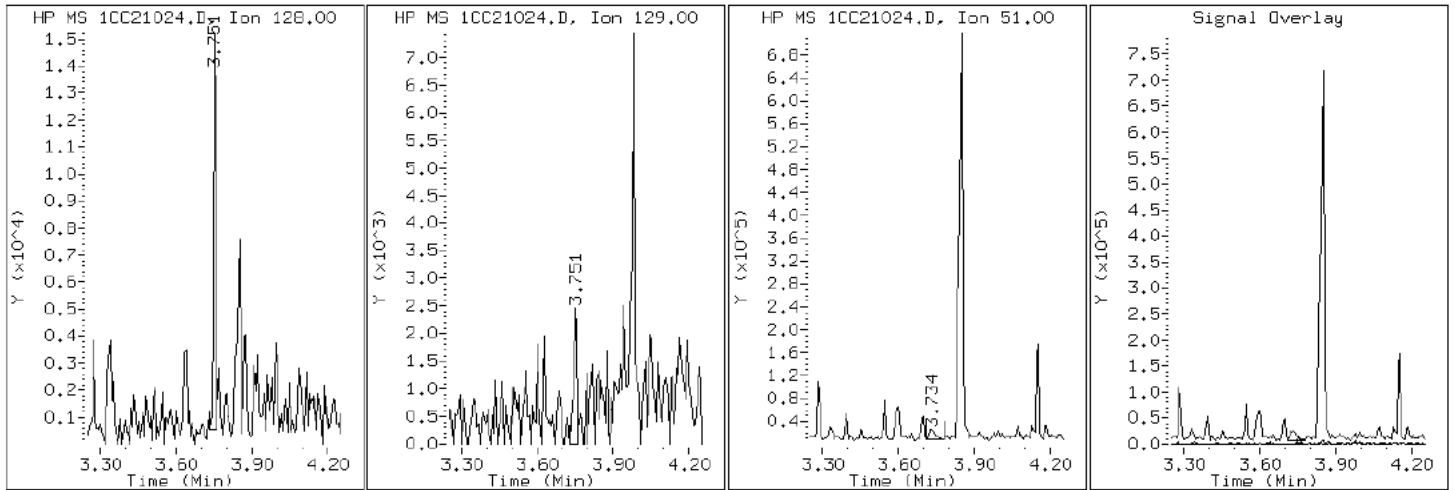
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

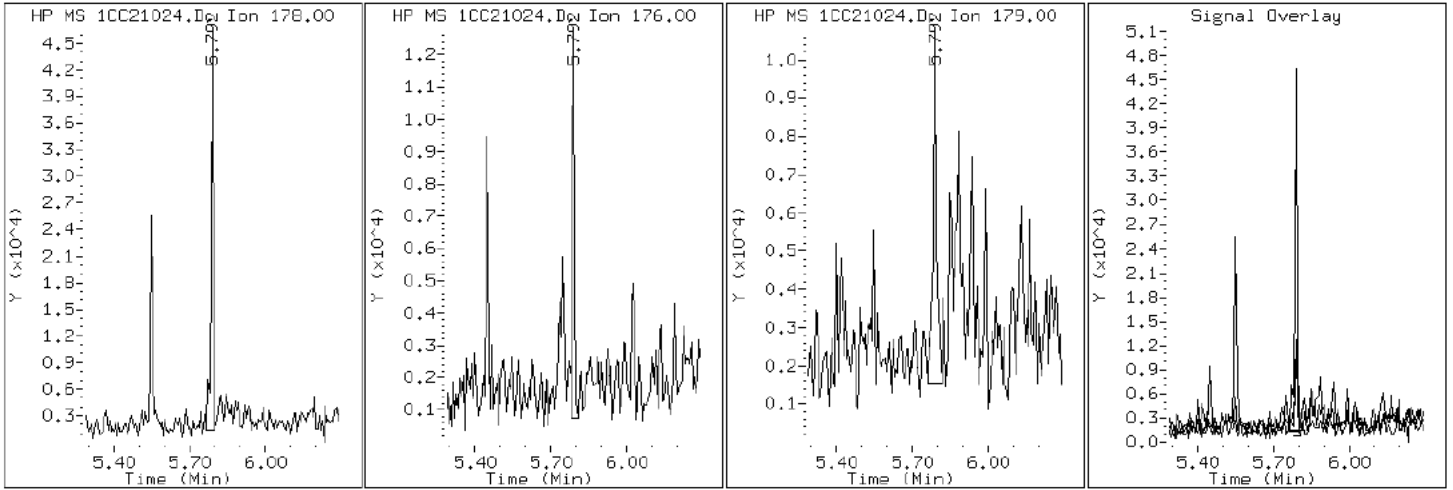
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21024.D

Date: 21-MAR-2013 18:00

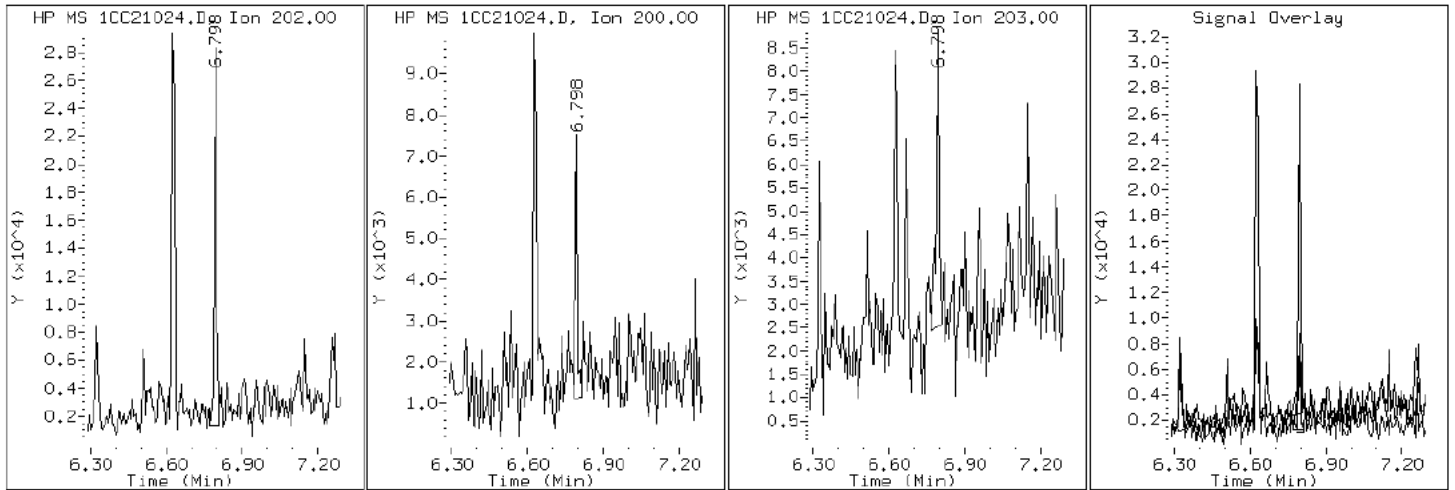
Client ID: FM0124A-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-18-a

Operator: SCC

16 Pyrene

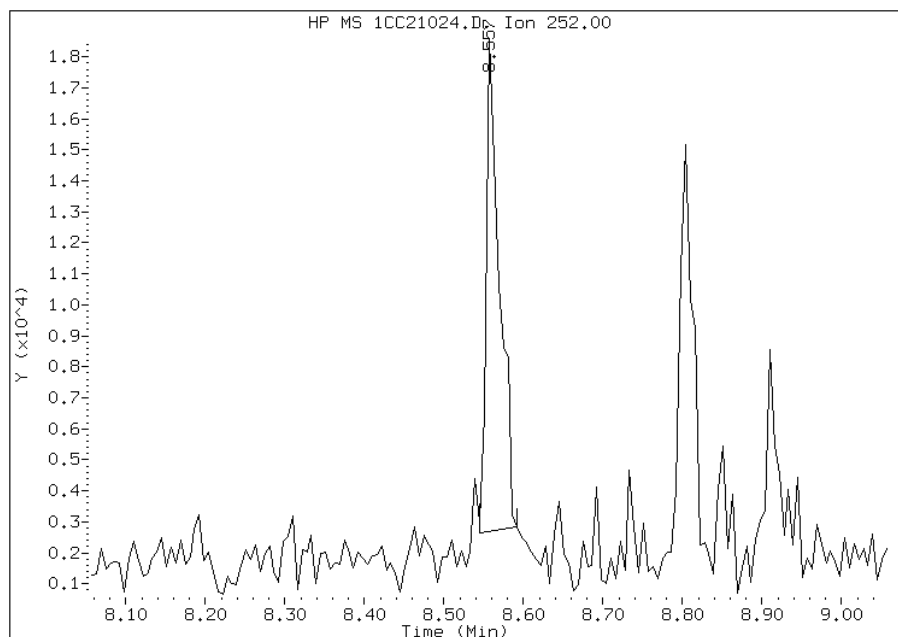


Manual Integration Report

Data File: 1CC21024.D
Inj. Date and Time: 21-MAR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: FM0124A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/25/2013

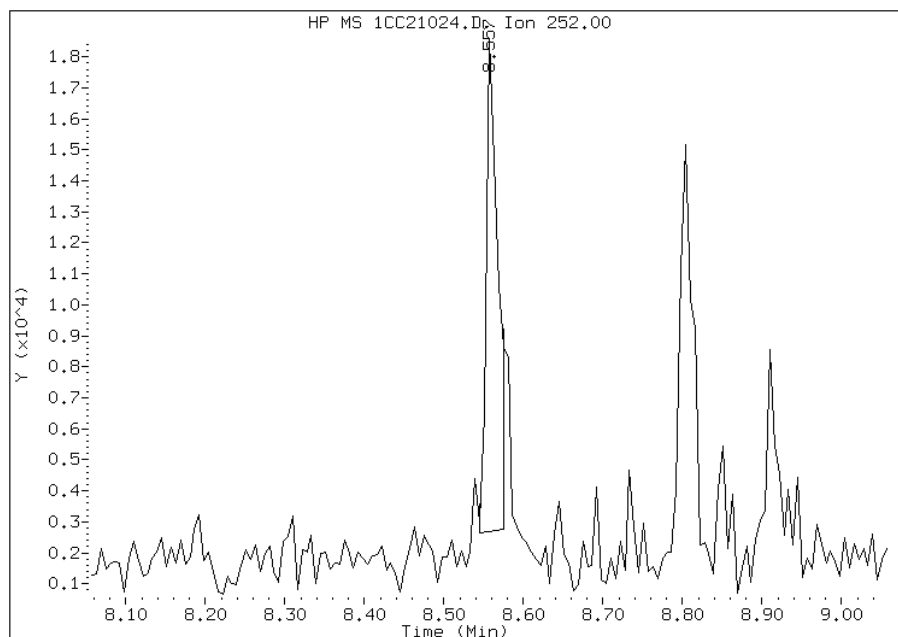
Processing Integration Results

RT: 8.56
Response: 18215
Amount: 1
Conc: 246



Manual Integration Results

RT: 8.56
Response: 16131
Amount: 0
Conc: 218



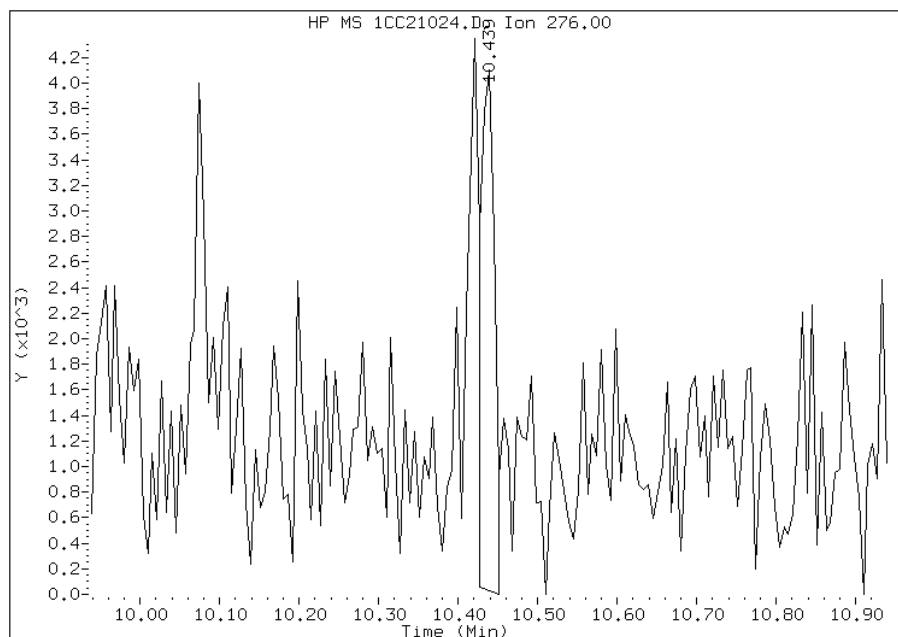
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC21024.D
Inj. Date and Time: 21-MAR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: FM0124A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/25/2013

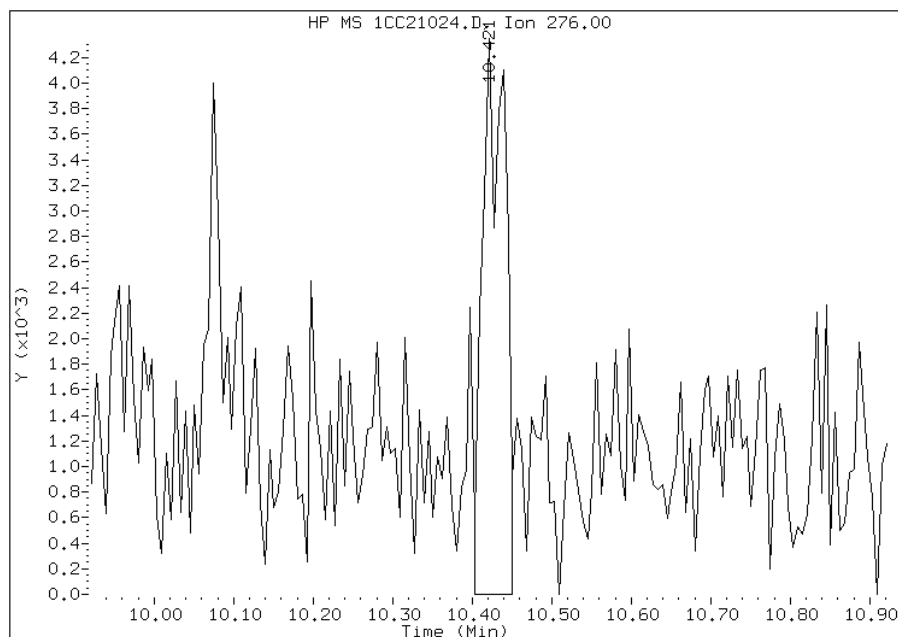
Processing Integration Results

RT: 10.44
Response: 5060
Amount: 0
Conc: 72



Manual Integration Results

RT: 10.42
Response: 8733
Amount: 0
Conc: 124



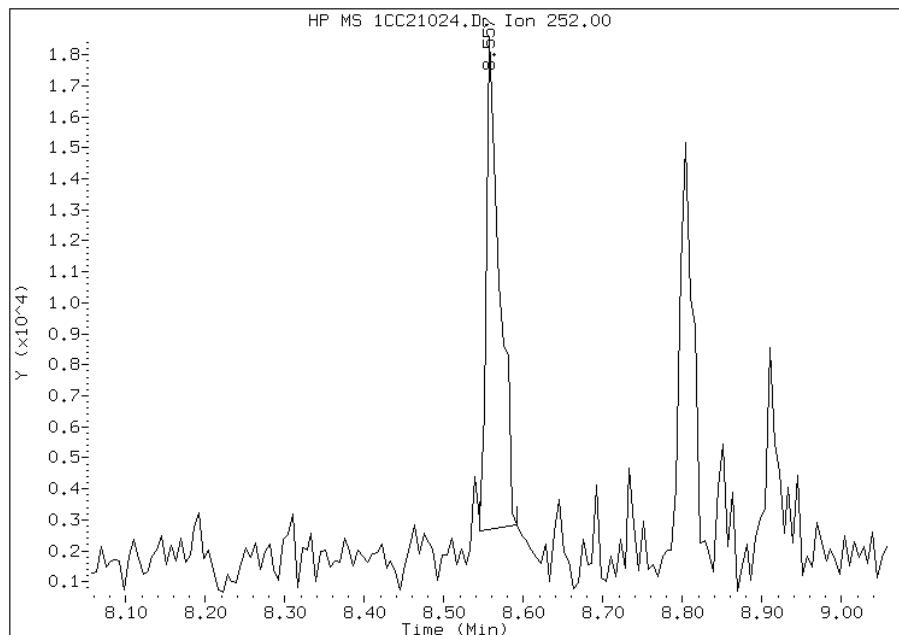
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21024.D
Inj. Date and Time: 21-MAR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: FM0124A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

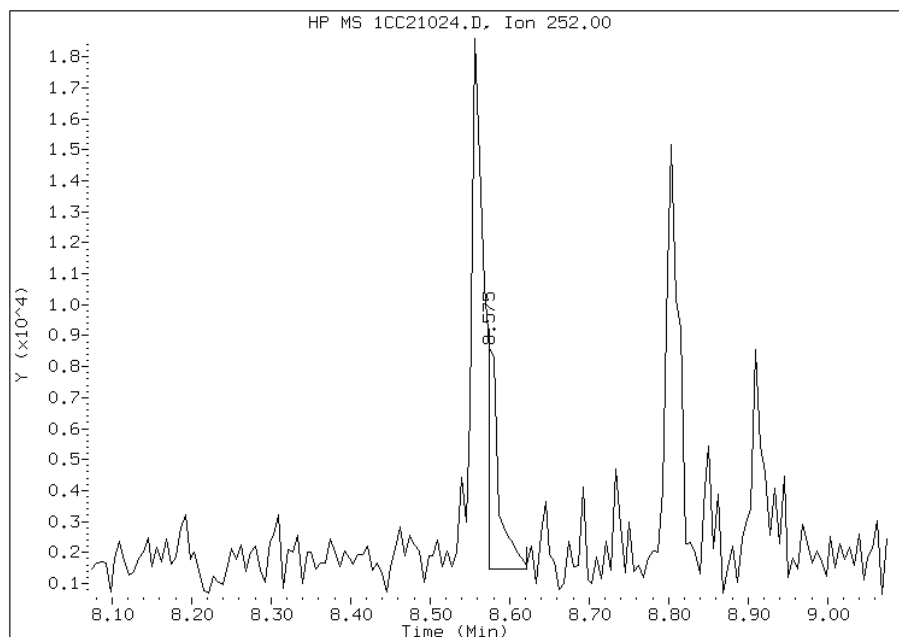
Processing Integration Results

RT: 8.56
Response: 18229
Amount: 1
Conc: 240



Manual Integration Results

RT: 8.57
Response: 7040
Amount: 0
Conc: 93



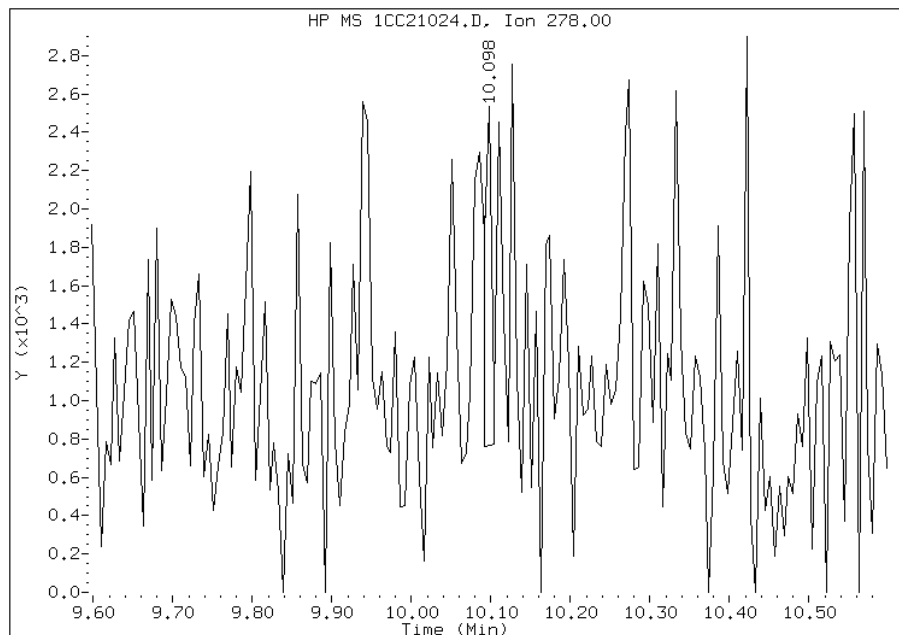
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21024.D
Inj. Date and Time: 21-MAR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: FM0124A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

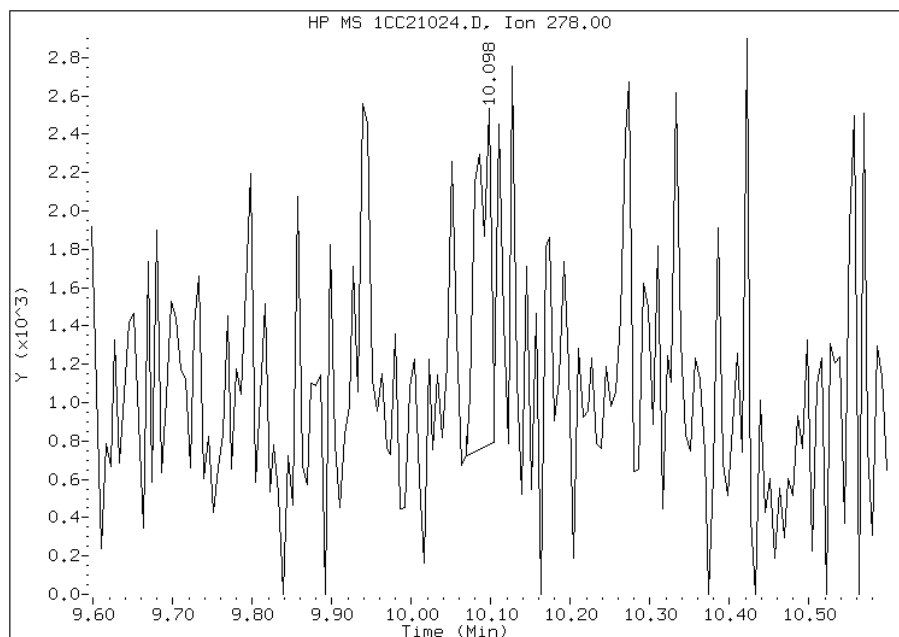
Processing Integration Results

RT: 10.10
Response: 1098
Amount: 0
Conc: 17



Manual Integration Results

RT: 10.10
Response: 2235
Amount: 0
Conc: 34



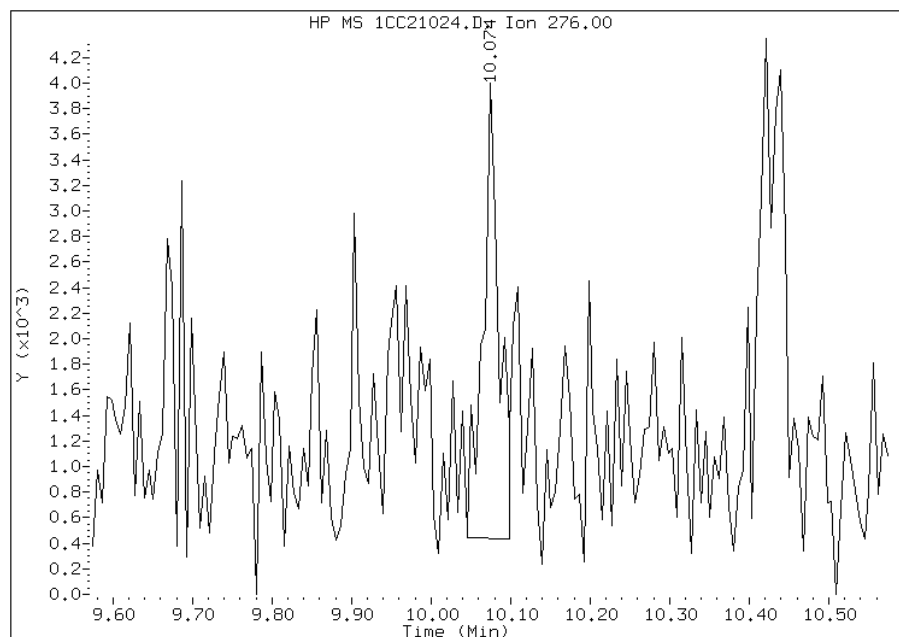
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21024.D
Inj. Date and Time: 21-MAR-2013 18:00
Instrument ID: BSMC5973.i
Client ID: FM0124A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

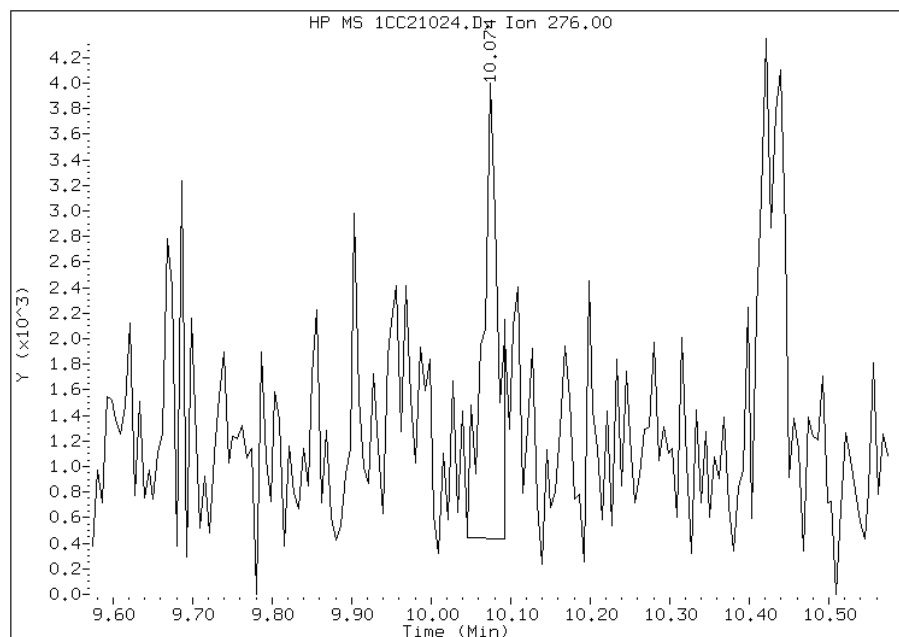
Processing Integration Results

RT: 10.07
Response: 5051
Amount: 0
Conc: 75



Manual Integration Results

RT: 10.07
Response: 4748
Amount: 0
Conc: 70



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0124B-CS Lab Sample ID: 680-88348-19
 Matrix: Solid Lab File ID: 1CC21025.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 12:30
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.01(g) Date Analyzed: 03/21/2013 18:18
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 34.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	11	J	61	7.7
120-12-7	Anthracene	36		13	6.4
56-55-3	Benzo[a]anthracene	120		12	6.0
50-32-8	Benzo[a]pyrene	99		16	8.0
205-99-2	Benzo[b]fluoranthene	190		19	9.3
191-24-2	Benzo[g,h,i]perylene	60		31	6.7
207-08-9	Benzo[k]fluoranthene	58		12	5.5
218-01-9	Chrysene	170		14	6.9
53-70-3	Dibenz(a,h)anthracene	27	J	31	6.3
206-44-0	Fluoranthene	250		31	6.1
86-73-7	Fluorene	26	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	44		31	11
90-12-0	1-Methylnaphthalene	75		61	6.7
91-57-6	2-Methylnaphthalene	110		61	11
91-20-3	Naphthalene	80		61	6.7
85-01-8	Phenanthrene	220		12	6.0
129-00-0	Pyrene	220		31	5.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21025.D
 Lab Smp Id: 680-88348-A-19-A Client Smp ID: FM0124B-CS
 Inj Date : 21-MAR-2013 18:18
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-19-a
 Misc Info : 680-88348-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	34.783	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	998466	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	794524	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1428336	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	106770	4.95098	505.7627	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1451767	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1391130	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	20383	0.78415	80.1038(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	18182	1.04862	107.1205	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	11596	0.73431	75.0127	
5 Acenaphthylene	152		4.739	4.739	(0.982)	3555	0.11098	11.3370	
9 Fluorene	166		5.168	5.162	(1.071)	6294	0.24996	25.5345	
11 Phenanthrene	178		5.792	5.792	(1.003)	89720	2.17234	221.9130	
12 Anthracene	178		5.827	5.821	(1.009)	14183	0.35113	35.8695	
13 Carbazole	167		5.939	5.933	(1.029)	13729	0.38236	39.0596(Q)	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.627	6.627	(1.148)	111035	2.45491	250.7791
16 Pyrene	202		6.798	6.792	(0.880)	85787	2.19887	224.6235
17 Benzo(a)anthracene	228		7.710	7.709	(0.998)	49193	1.17403	119.9324
19 Chrysene	228		7.739	7.733	(1.002)	71219	1.69843	173.5015
20 Benzo(b)fluoranthene	252		8.557	8.551	(0.960)	68993	1.89774	193.8617
21 Benzo(k)fluoranthene	252		8.574	8.574	(0.962)	21143	0.56691	57.9124(QM)
22 Benzo(a)pyrene	252		8.851	8.845	(0.993)	34262	0.97024	99.1137
24 Indeno(1,2,3-cd)pyrene	276		10.074	10.068	(1.131)	14278	0.42981	43.9065(M)
25 Dibenzo(a,h)anthracene	278		10.086	10.086	(1.132)	8460	0.26036	26.5969(M)
26 Benzo(g,h,i)perylene	276		10.427	10.421	(1.170)	20468	0.58900	60.1687(M)

QC Flag Legend

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

Data File: 1CC21025.D

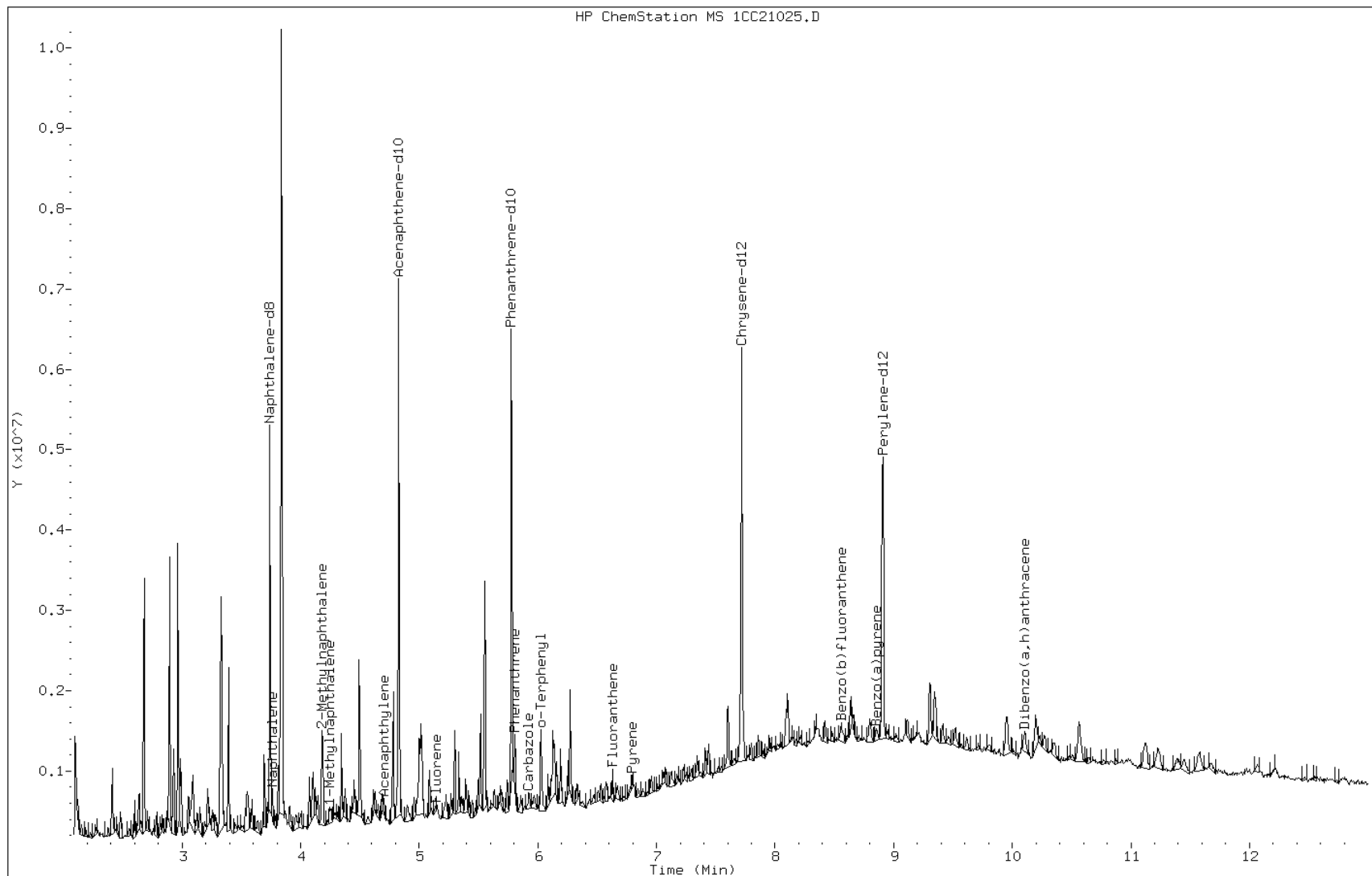
Date: 21-MAR-2013 18:18

Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

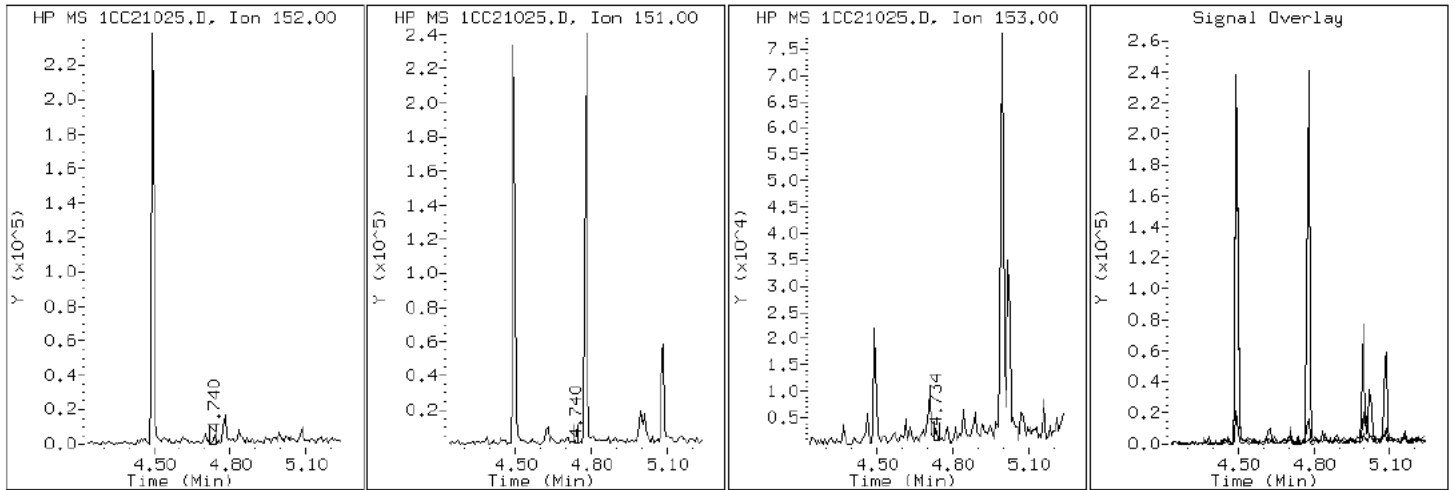
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

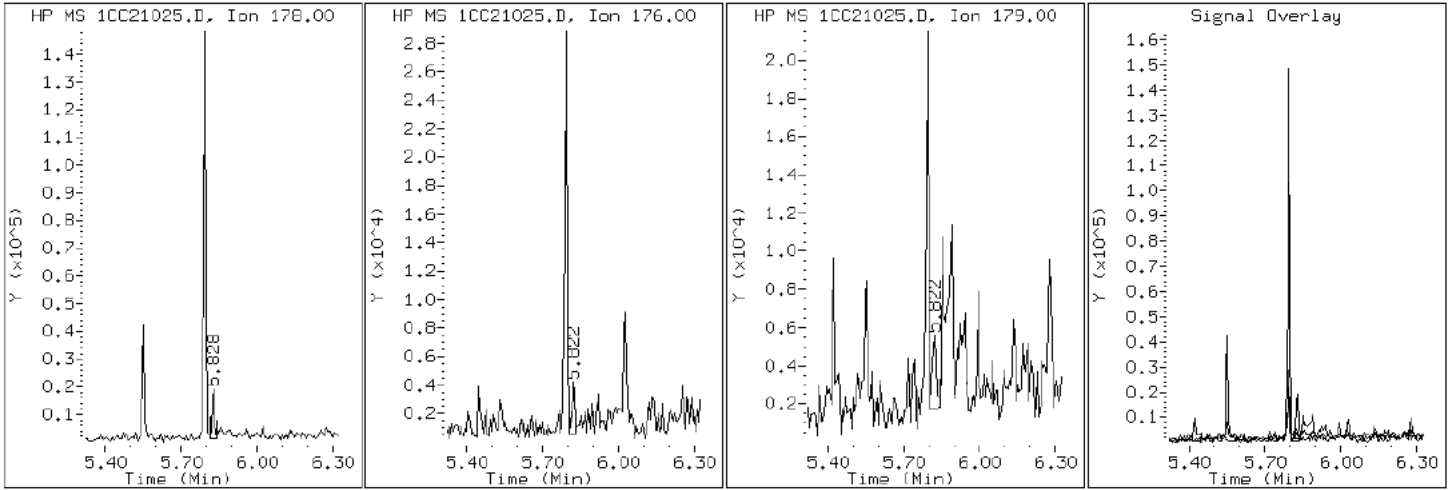
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

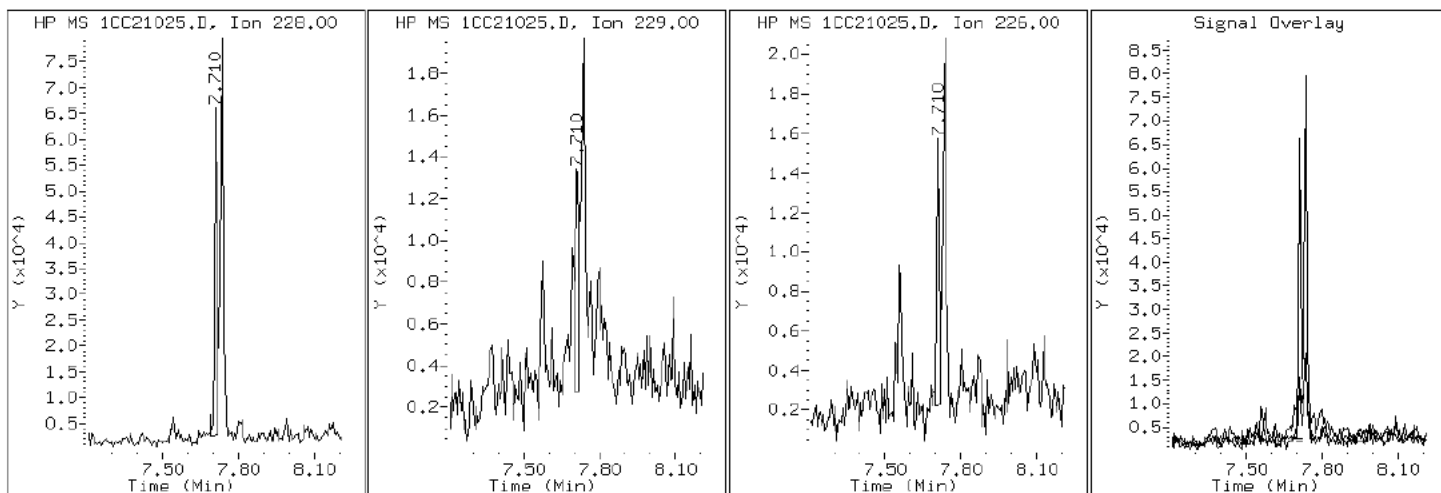
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

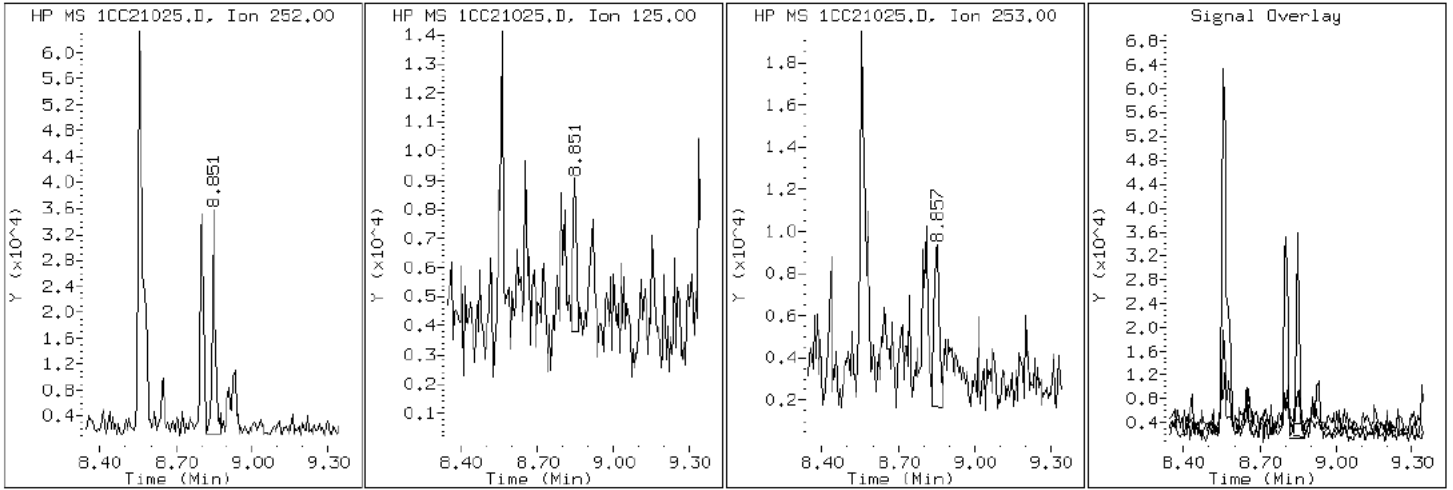
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

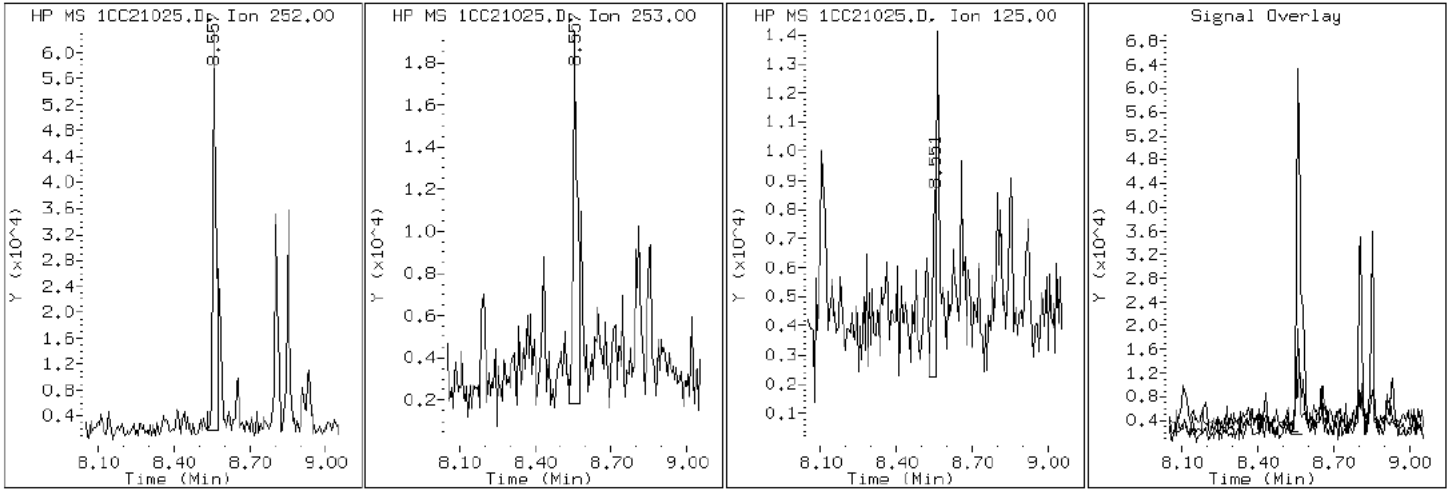
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

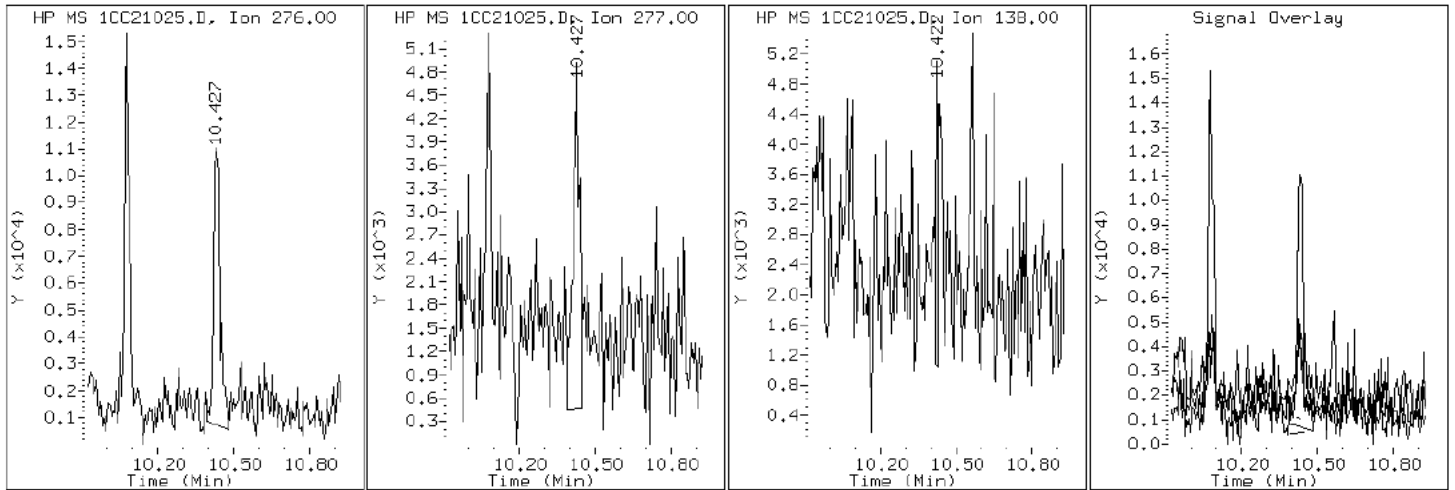
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

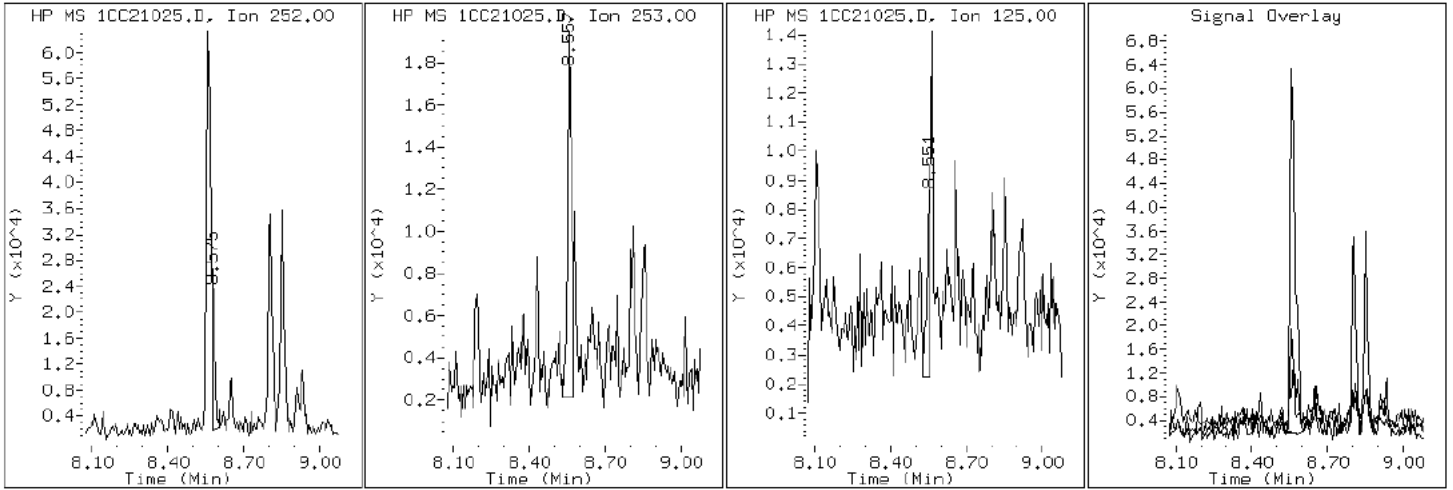
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

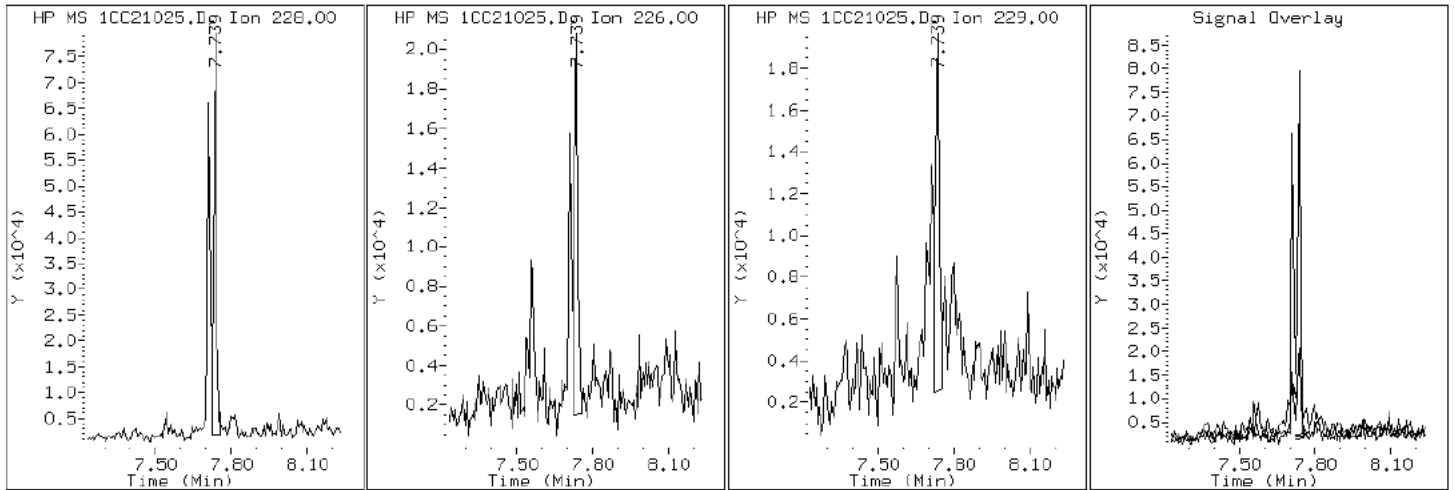
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

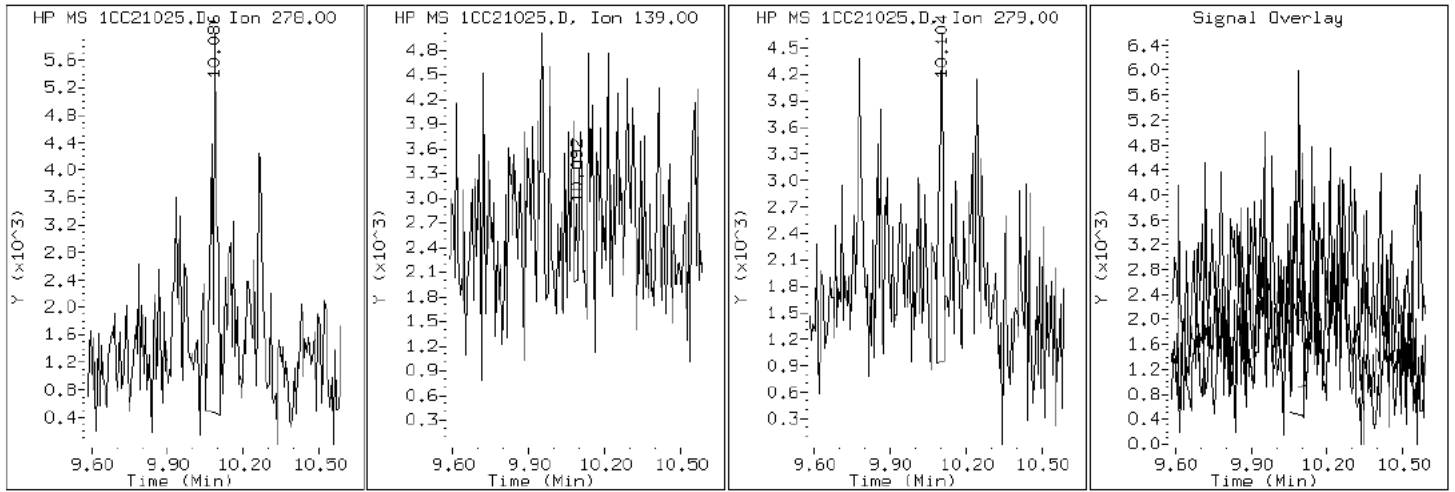
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

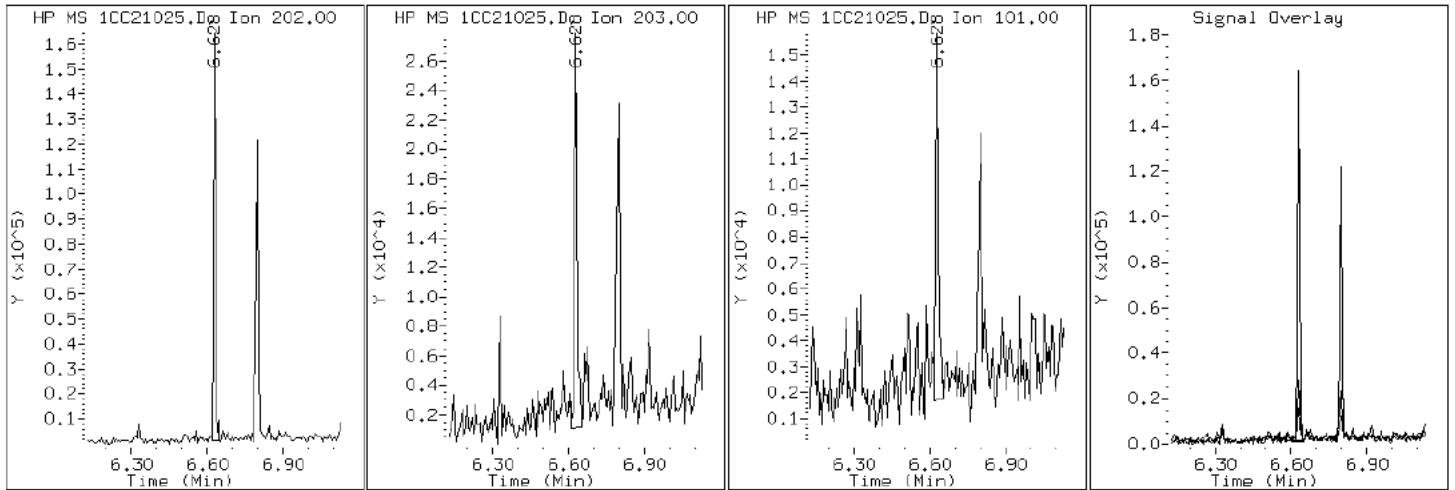
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

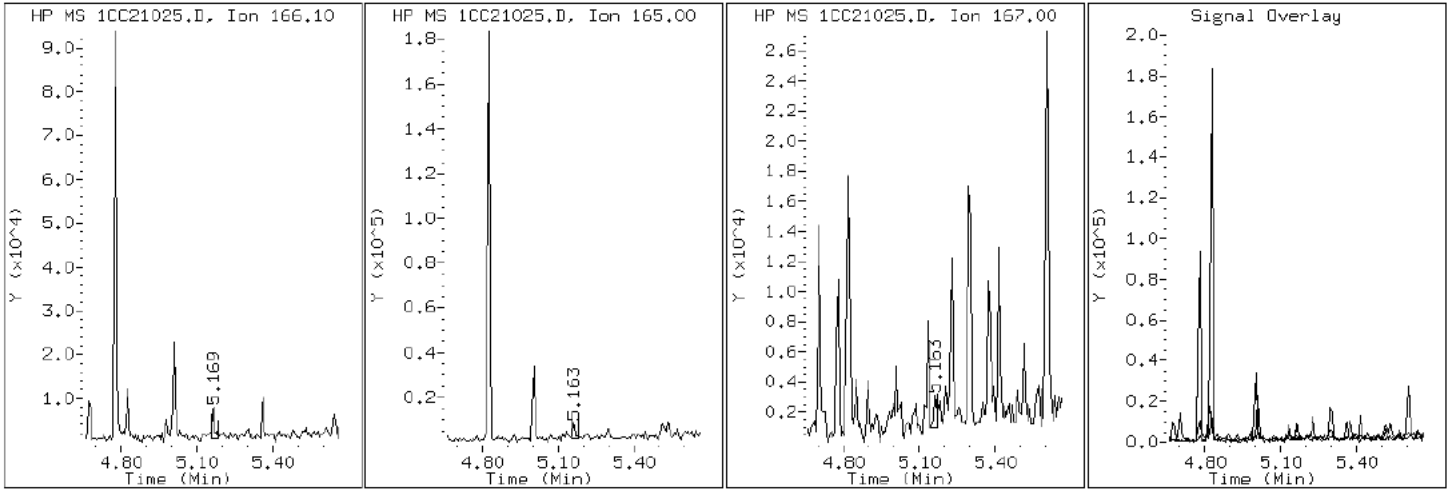
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

9 Fluorene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

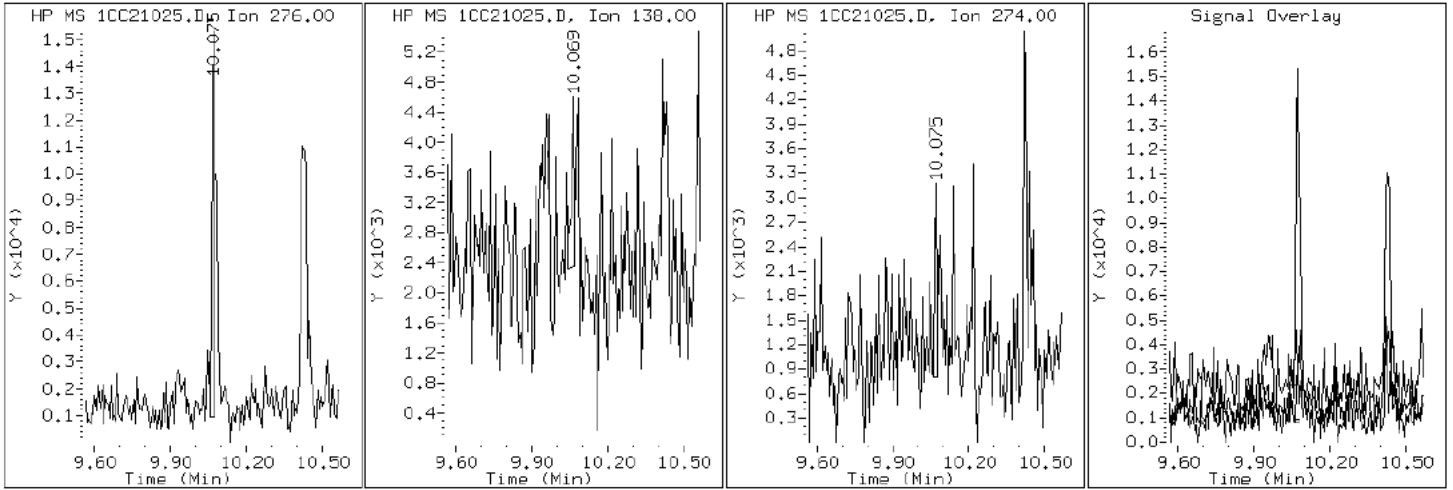
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

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



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

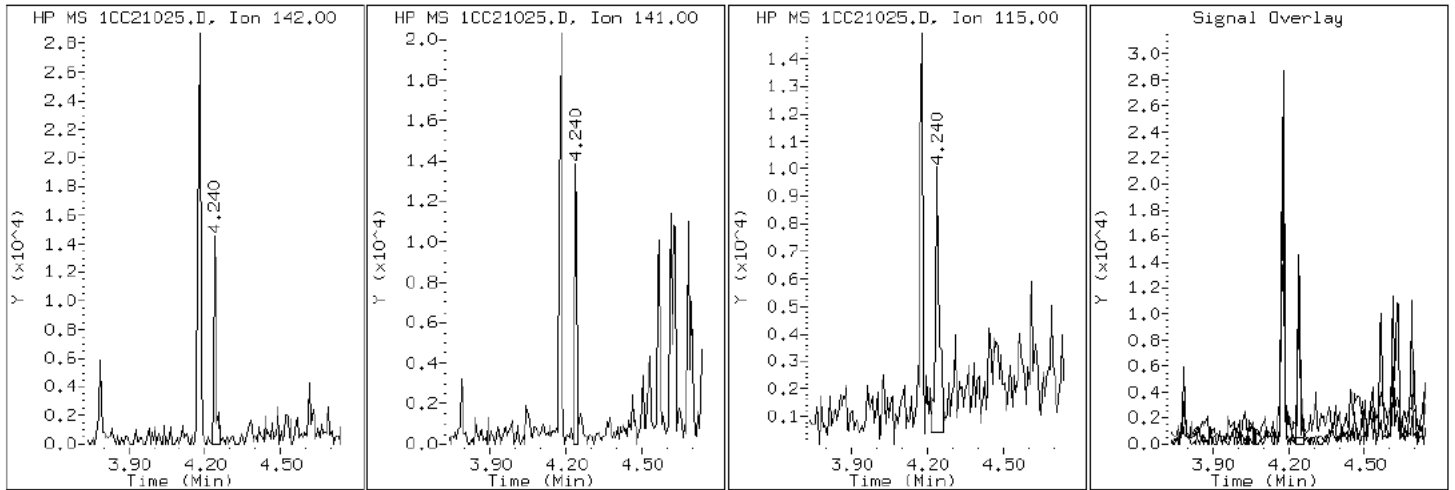
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

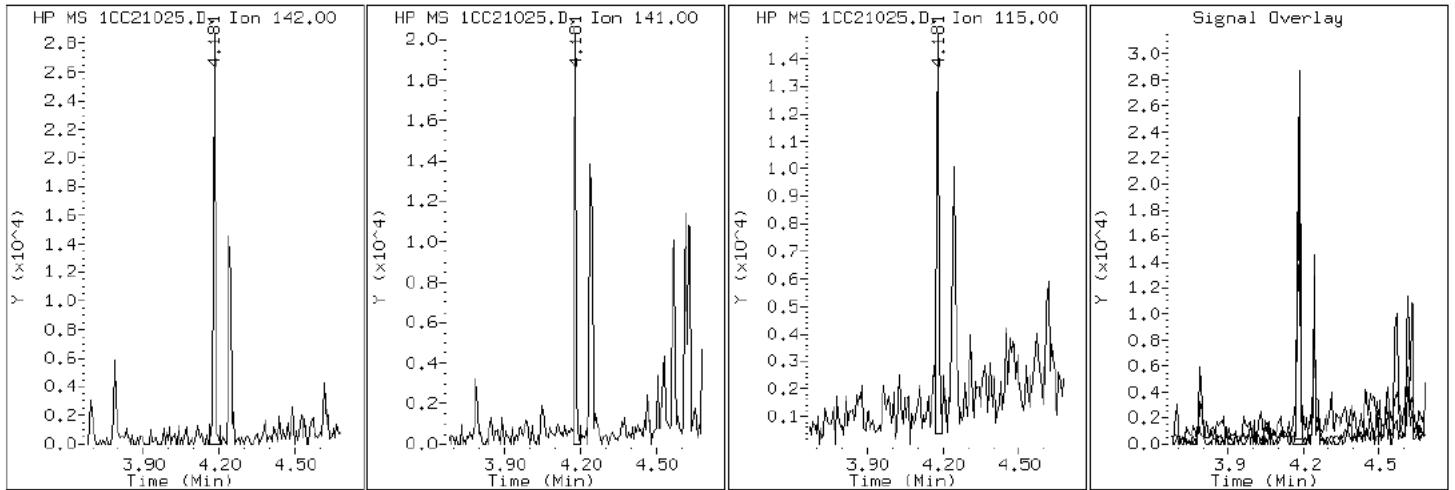
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

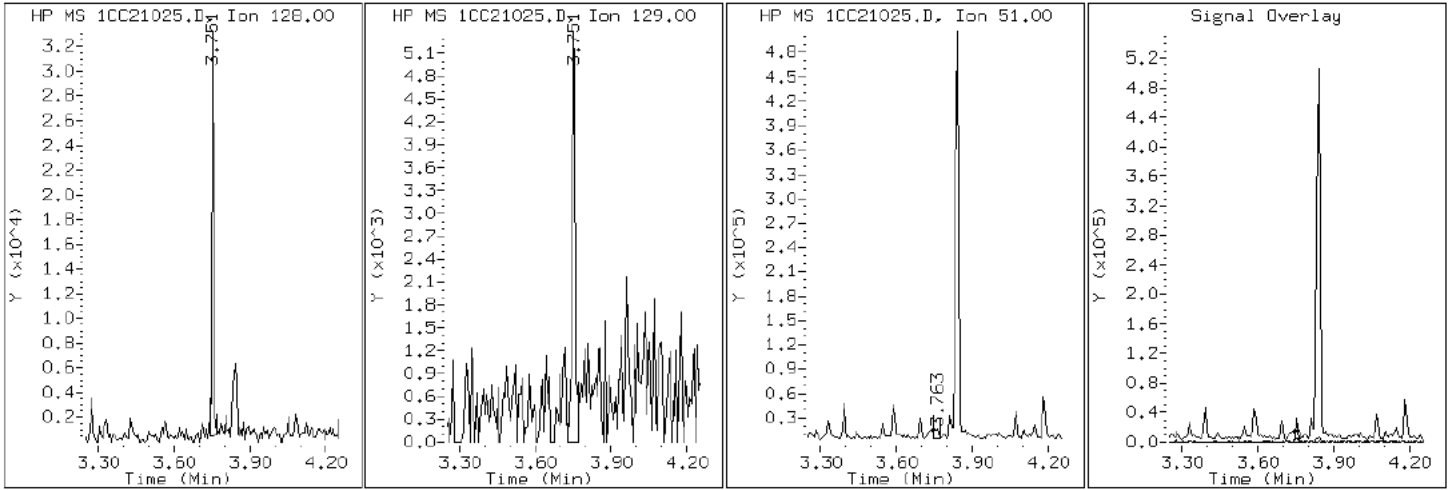
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

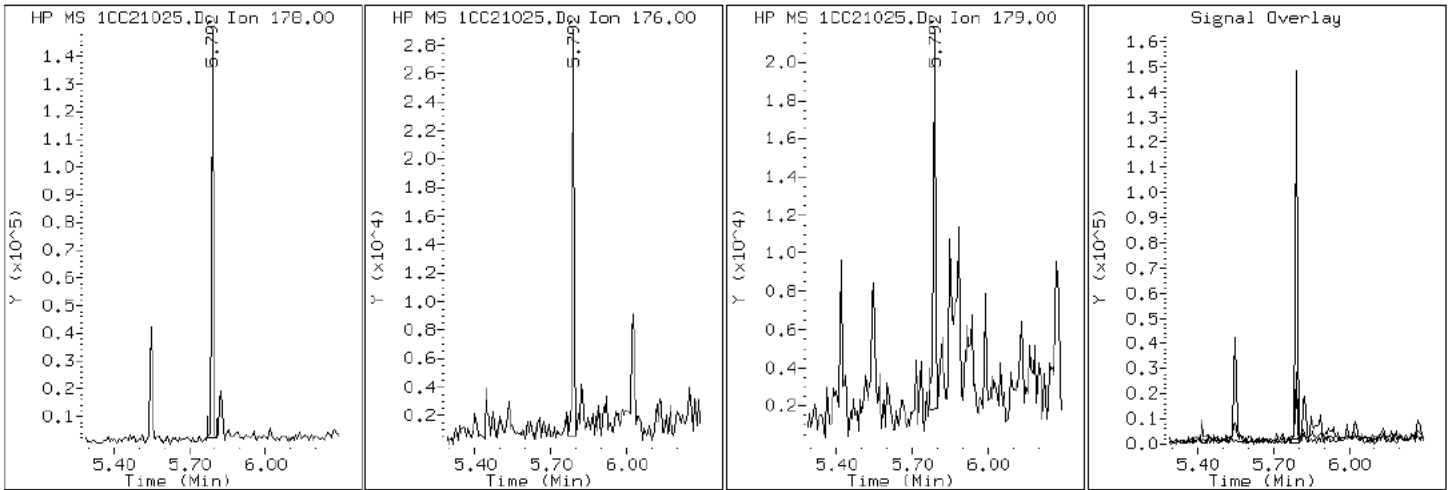
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21025.D

Date: 21-MAR-2013 18:18

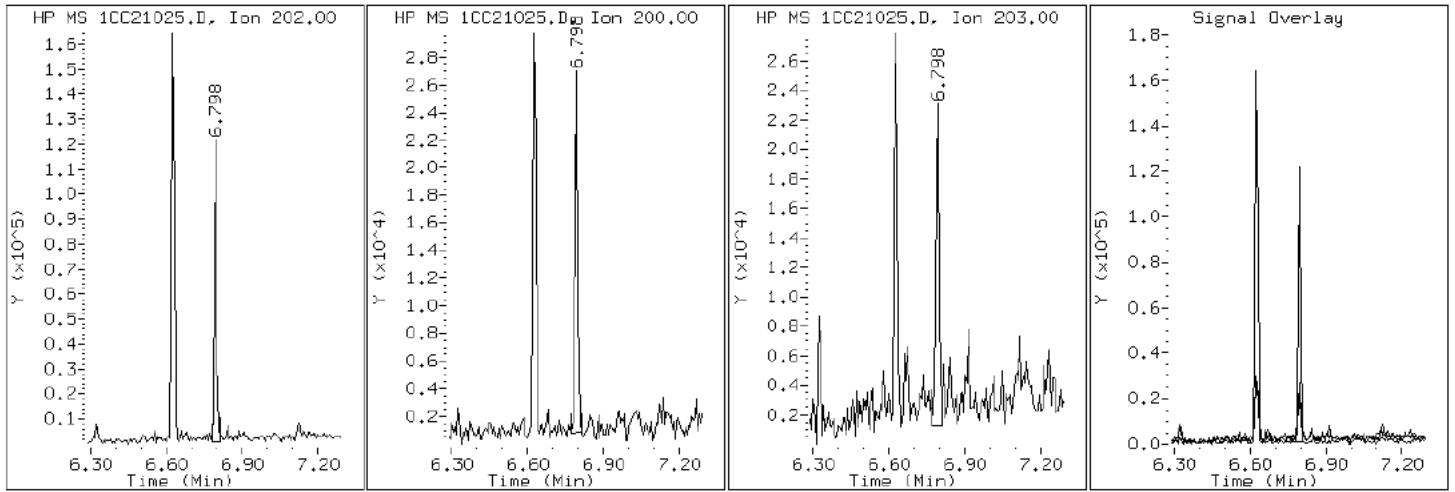
Client ID: FM0124B-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-19-a

Operator: SCC

16 Pyrene

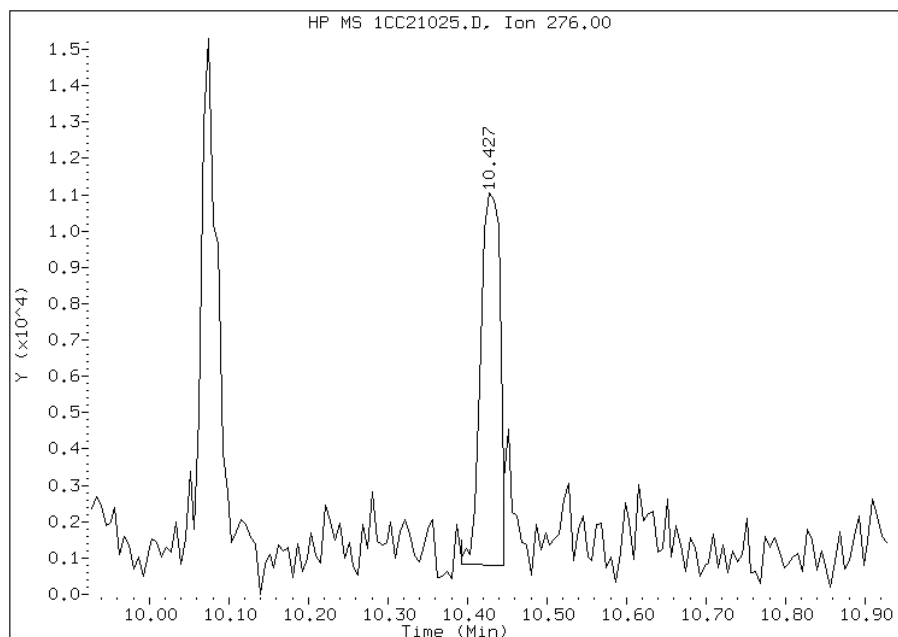


Manual Integration Report

Data File: 1CC21025.D
Inj. Date and Time: 21-MAR-2013 18:18
Instrument ID: BSMC5973.i
Client ID: FM0124B-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/25/2013

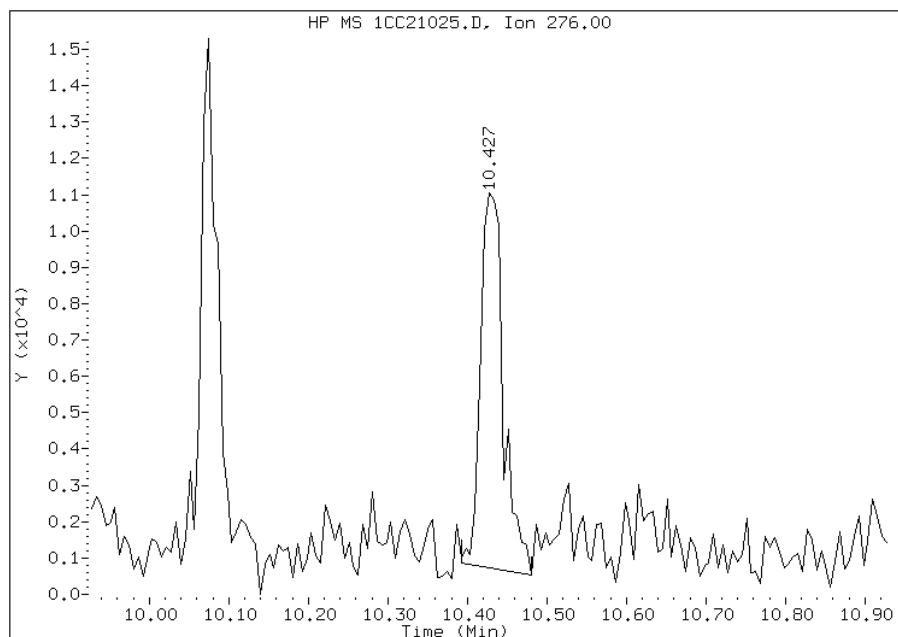
Processing Integration Results

RT: 10.43
Response: 17182
Amount: 0
Conc: 51



Manual Integration Results

RT: 10.43
Response: 20468
Amount: 1
Conc: 60



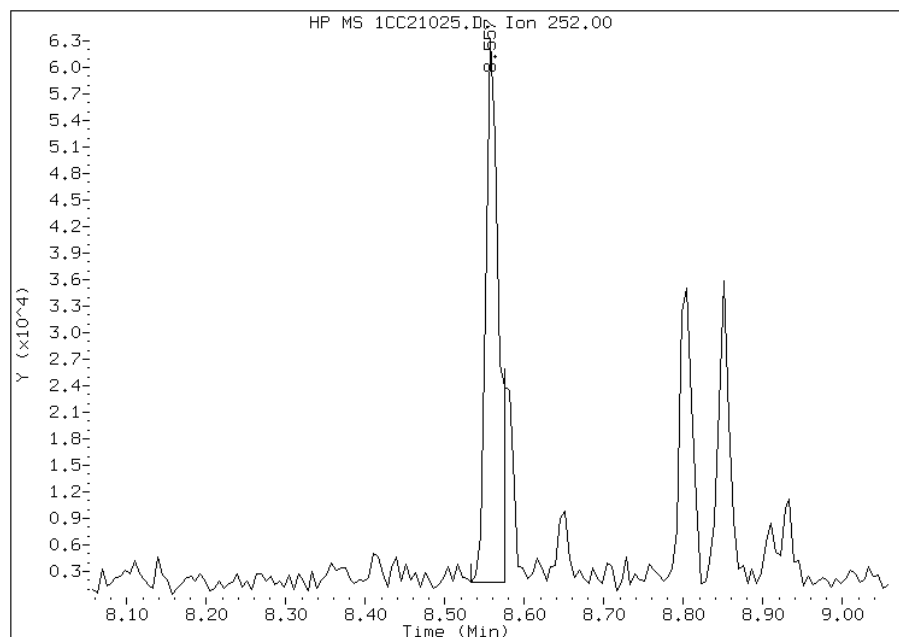
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21025.D
Inj. Date and Time: 21-MAR-2013 18:18
Instrument ID: BSMC5973.i
Client ID: FM0124B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/25/2013

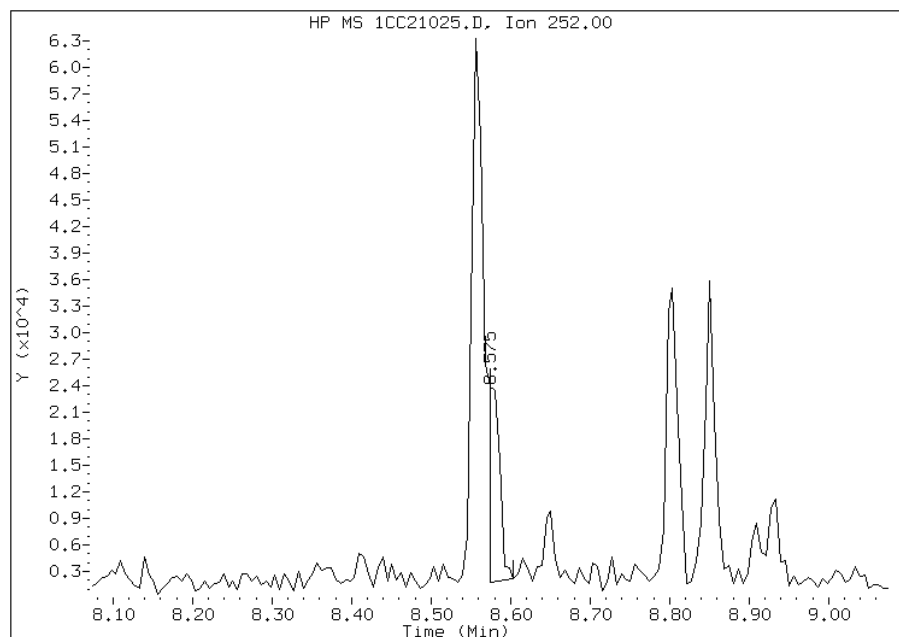
Processing Integration Results

RT: 8.56
Response: 68993
Amount: 2
Conc: 189



Manual Integration Results

RT: 8.57
Response: 21143
Amount: 1
Conc: 58



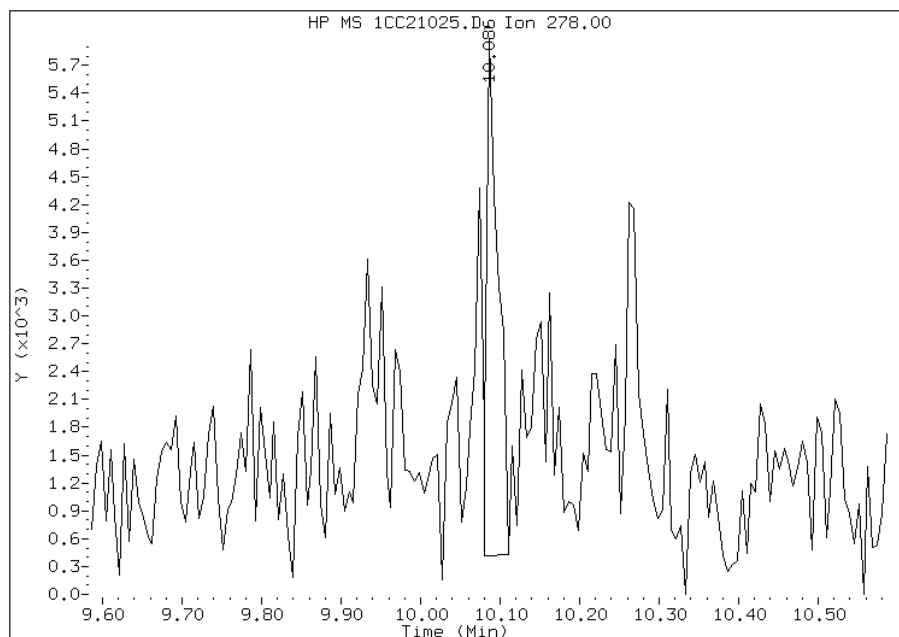
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21025.D
Inj. Date and Time: 21-MAR-2013 18:18
Instrument ID: BSMC5973.i
Client ID: FM0124B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

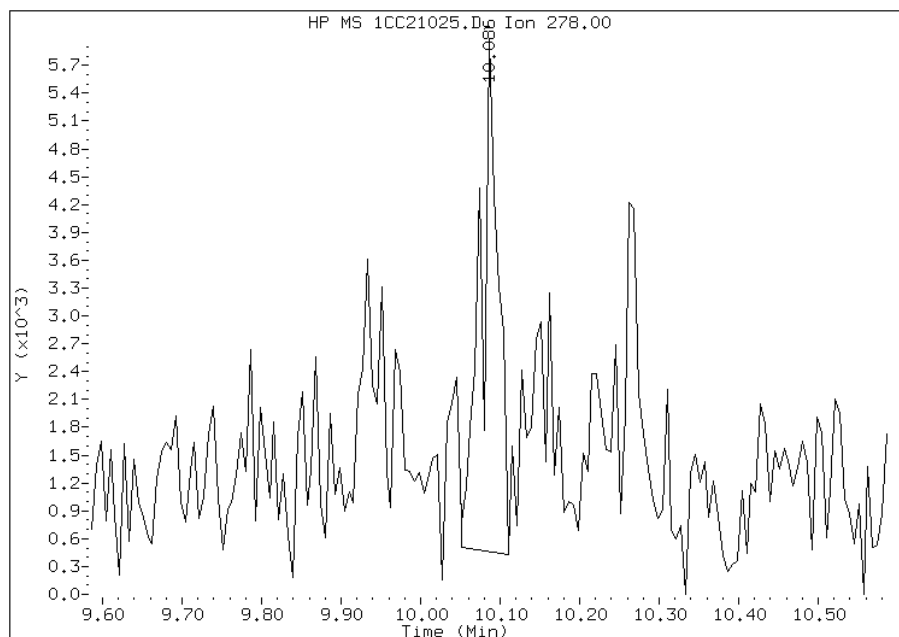
Processing Integration Results

RT: 10.09
Response: 5685
Amount: 0
Conc: 18



Manual Integration Results

RT: 10.09
Response: 8460
Amount: 0
Conc: 27



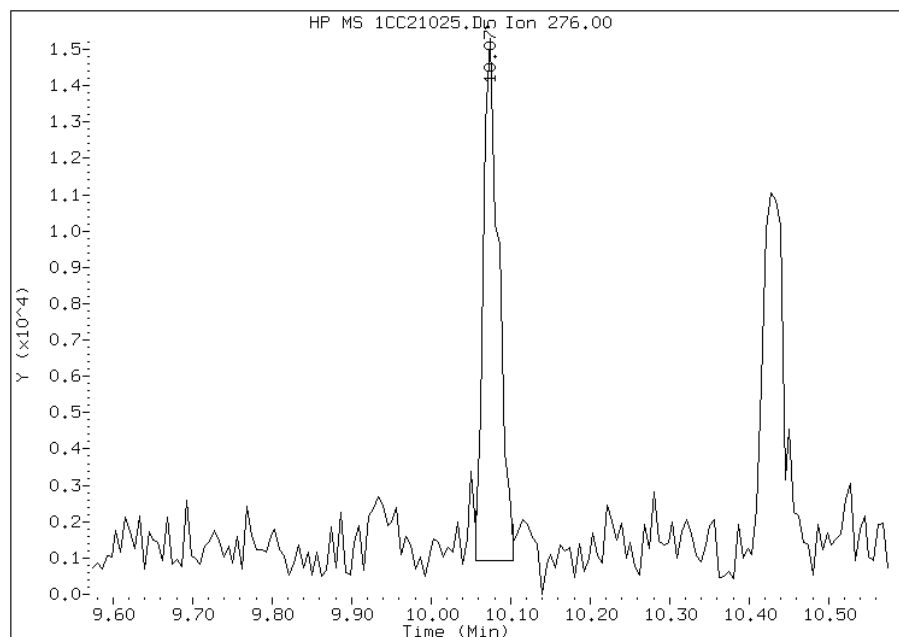
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21025.D
Inj. Date and Time: 21-MAR-2013 18:18
Instrument ID: BSMC5973.i
Client ID: FM0124B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

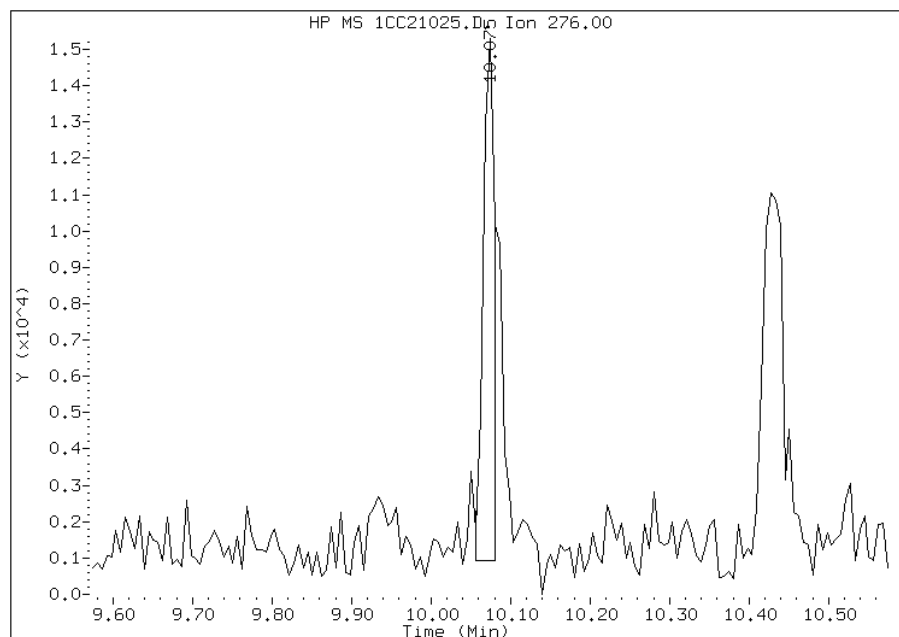
Processing Integration Results

RT: 10.07
Response: 19256
Amount: 1
Conc: 59



Manual Integration Results

RT: 10.07
Response: 14278
Amount: 0
Conc: 44



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: FM0124C-CS Lab Sample ID: 680-88348-20
 Matrix: Solid Lab File ID: 1CC21026.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 12:40
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.00(g) Date Analyzed: 03/21/2013 18:37
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 36.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	14	J	63	7.8
120-12-7	Anthracene	12	J	13	6.6
56-55-3	Benzo[a]anthracene	51		13	6.1
50-32-8	Benzo[a]pyrene	31		16	8.1
205-99-2	Benzo[b]fluoranthene	85		19	9.6
191-24-2	Benzo[g,h,i]perylene	19	J	31	6.9
207-08-9	Benzo[k]fluoranthene	25		13	5.6
218-01-9	Chrysene	82		14	7.1
53-70-3	Dibenz(a,h)anthracene	18	J	31	6.4
206-44-0	Fluoranthene	80		31	6.3
86-73-7	Fluorene	10	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	16	J	31	11
90-12-0	1-Methylnaphthalene	49	J	63	6.9
91-57-6	2-Methylnaphthalene	57	J	63	11
91-20-3	Naphthalene	77		63	6.9
85-01-8	Phenanthrene	82		13	6.1
129-00-0	Pyrene	81		31	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21026.D
 Lab Smp Id: 680-88348-A-20-A Client Smp ID: FM0124C-CS
 Inj Date : 21-MAR-2013 18:37
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-20-a
 Misc Info : 680-88348-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	36.179	% 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		3.739	3.739	(1.000)	1017954	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	836053	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1489942	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	85811	3.81457	398.4647	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1507099	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1433727	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	19421	0.73283	76.5509	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	9589	0.54244	56.6627	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	7559	0.46951	49.0438	
5 Acenaphthylene	152		4.739	4.739	(0.982)	4456	0.13220	13.8092(Q)	
9 Fluorene	166		5.162	5.162	(1.069)	2577	0.09726	10.1595(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	33964	0.78835	82.3496	
12 Anthracene	178		5.827	5.821	(1.009)	5032	0.11943	12.4751(Q)	
13 Carbazole	167		5.939	5.933	(1.029)	6855	0.18302	19.1181(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.627	6.627	(1.148)	36183	0.76690	80.1097
16 Pyrene	202	6.798	6.792	(0.880)	31374	0.77465	80.9183
17 Benzo(a)anthracene	228	7.715	7.709	(0.999)	21220	0.48784	50.9591
19 Chrysene	228	7.739	7.733	(1.002)	34376	0.78970	82.4909
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.960)	30365	0.81041	84.6544
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.963)	9175	0.23870	24.9345
22 Benzo(a)pyrene	252	8.850	8.845	(0.993)	10825	0.29744	31.0698
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.130)	5126	0.14972	15.6397(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.086	(1.131)	5659	0.16898	17.6518(M)
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.170)	6365	0.17772	18.5645

QC Flag Legend

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

Data File: 1CC21026.D

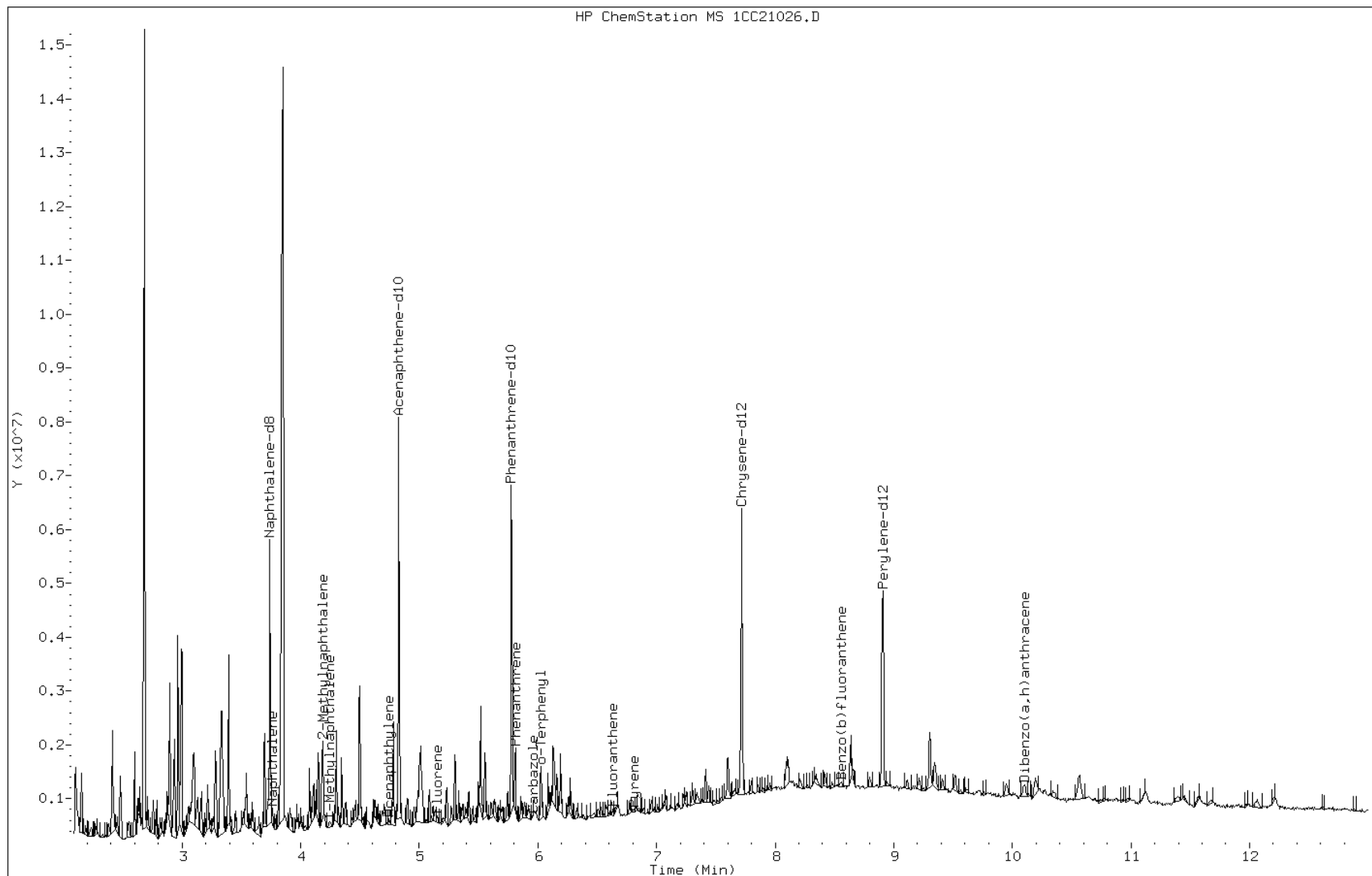
Date: 21-MAR-2013 18:37

Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

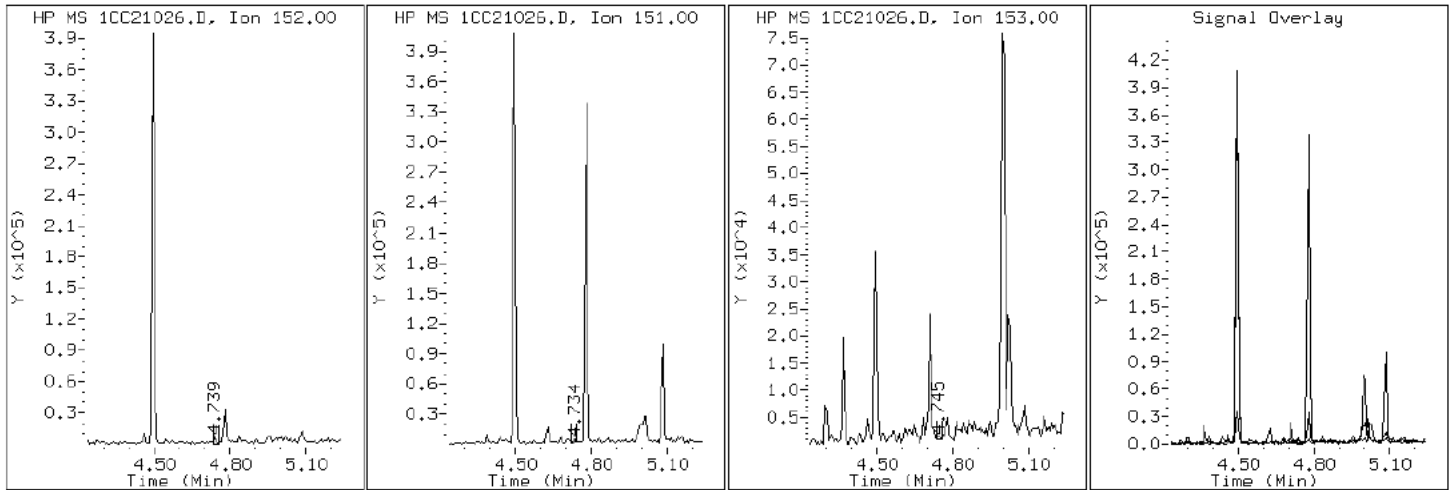
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

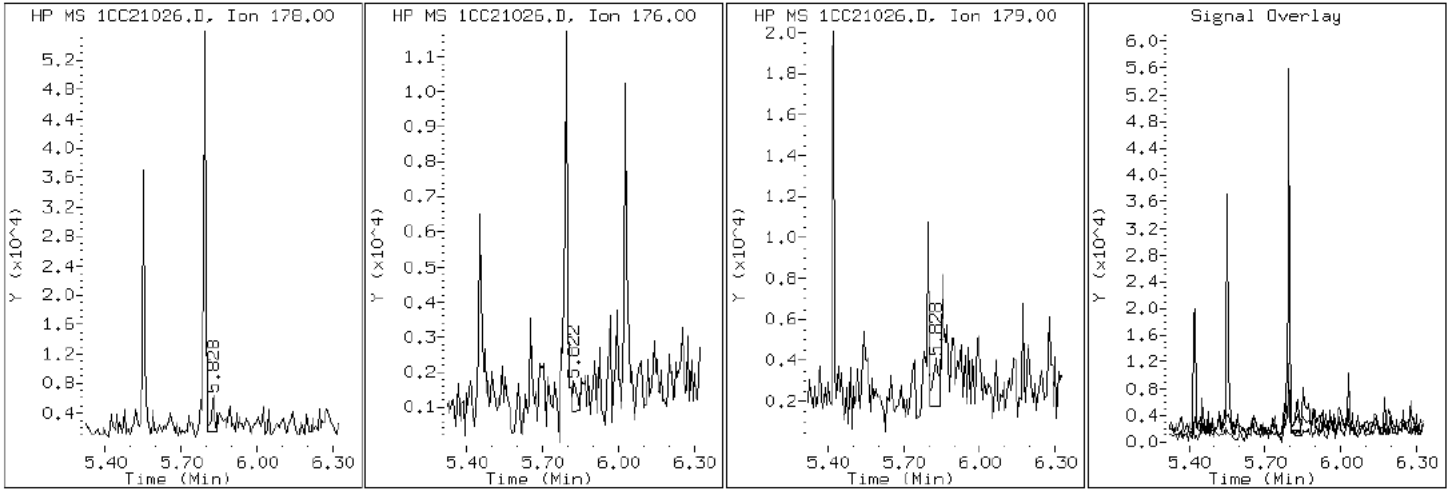
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

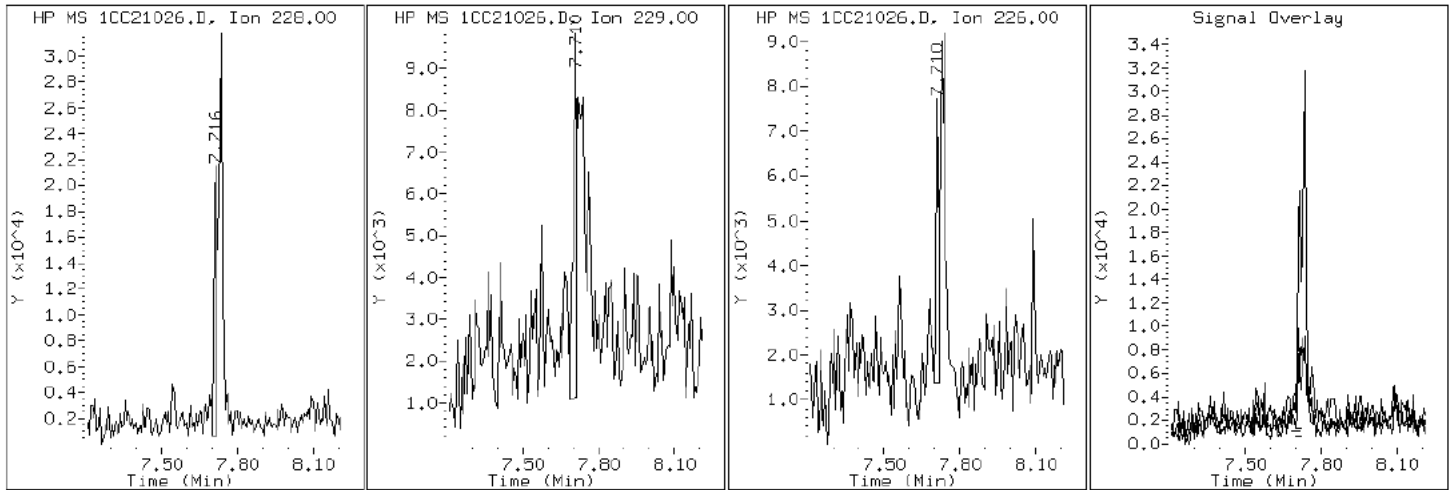
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

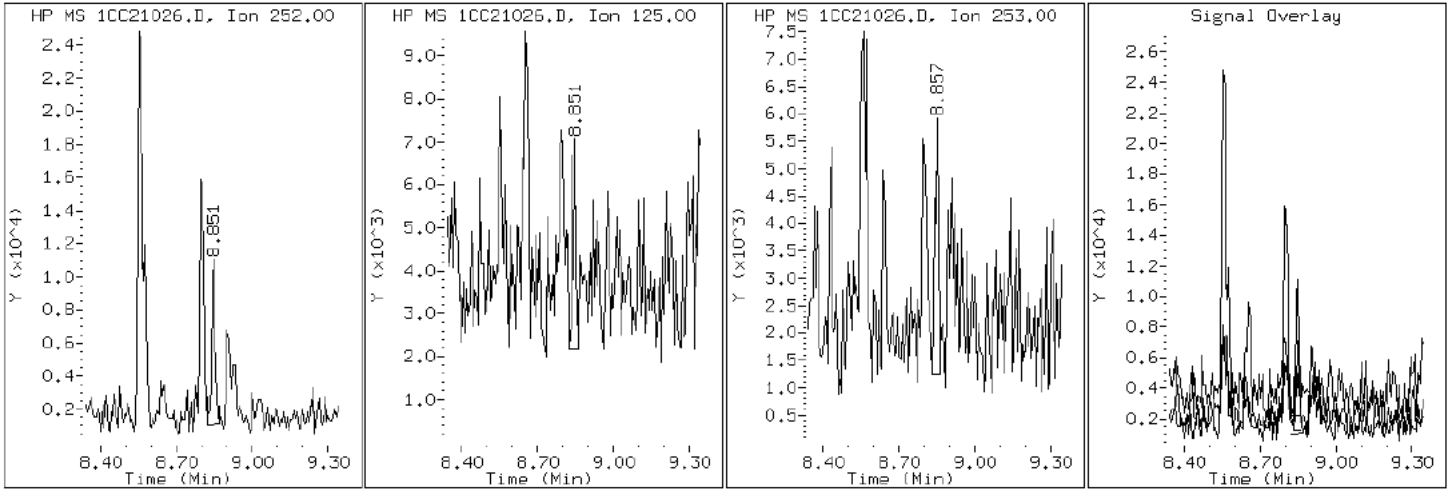
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

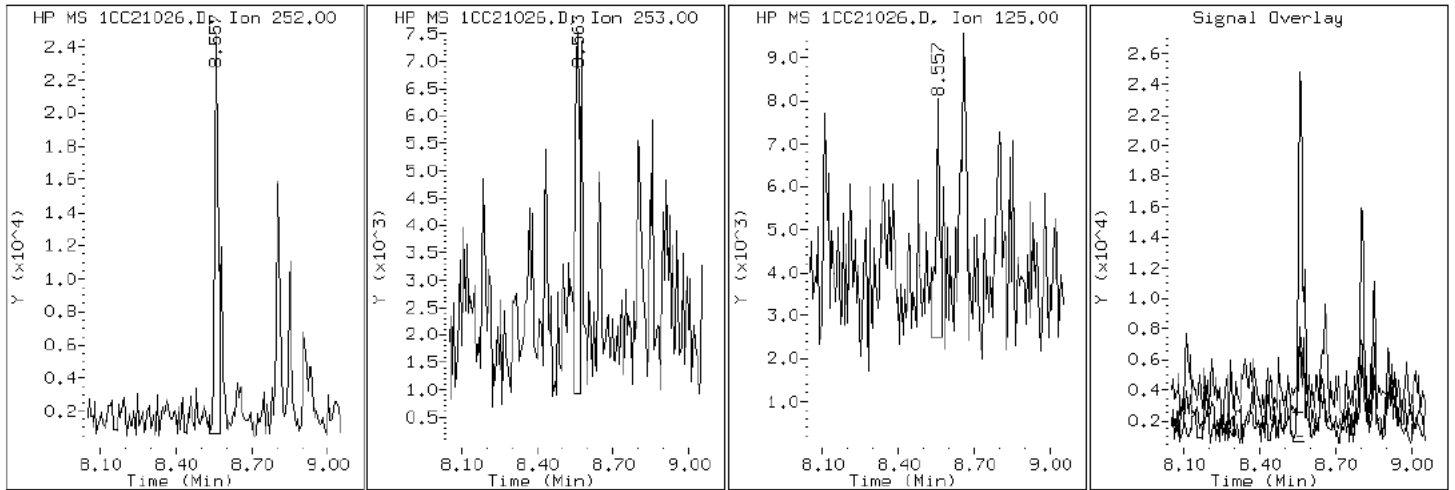
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

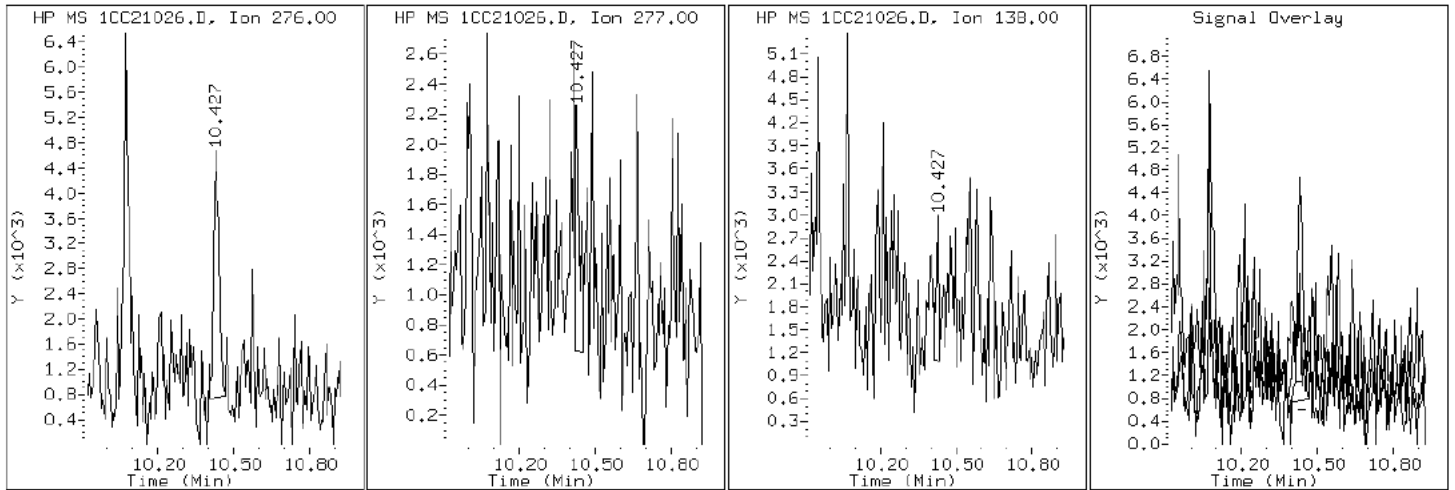
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

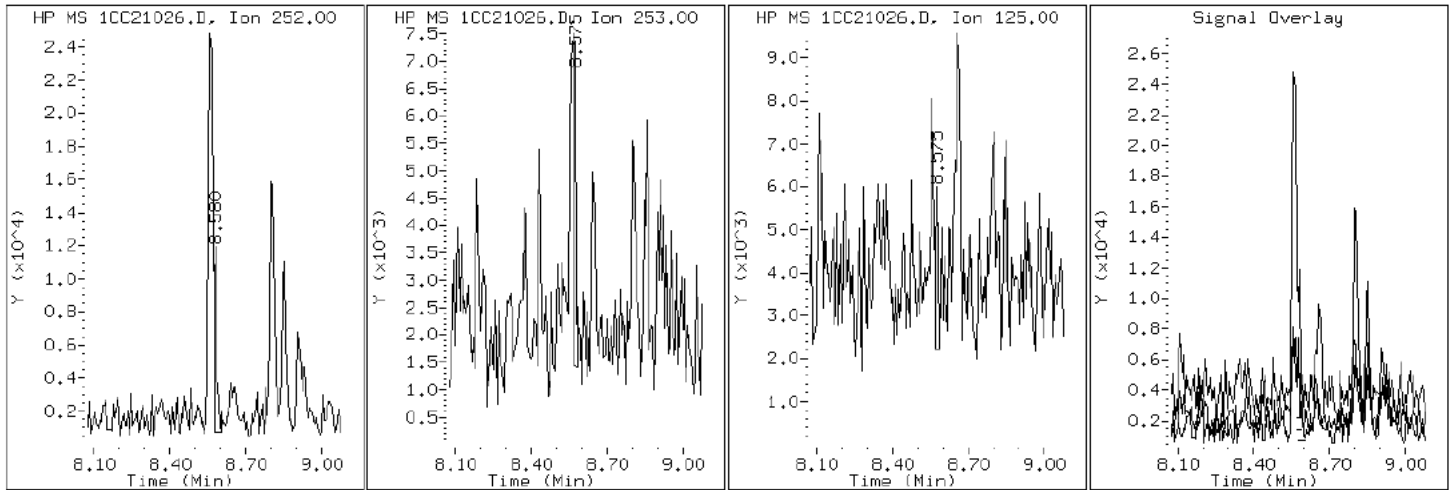
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

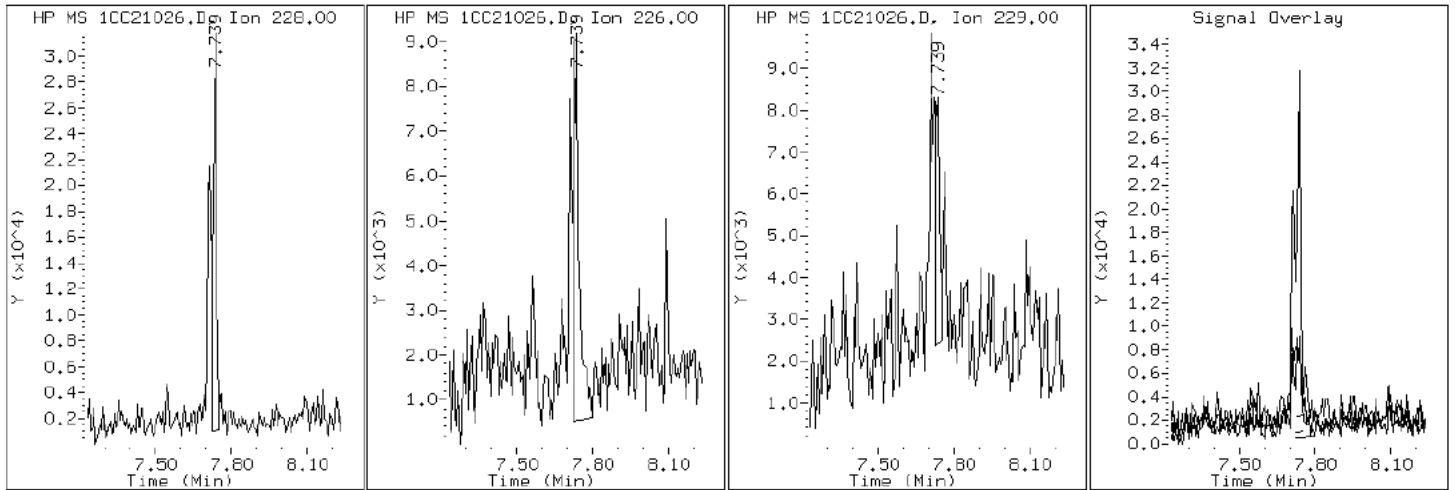
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

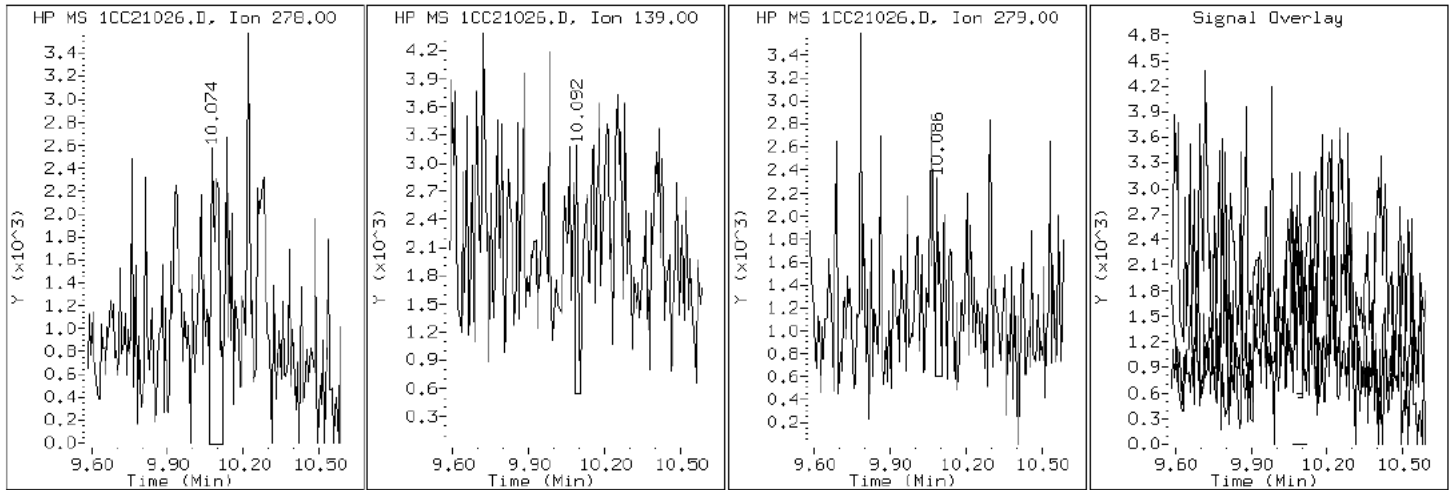
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

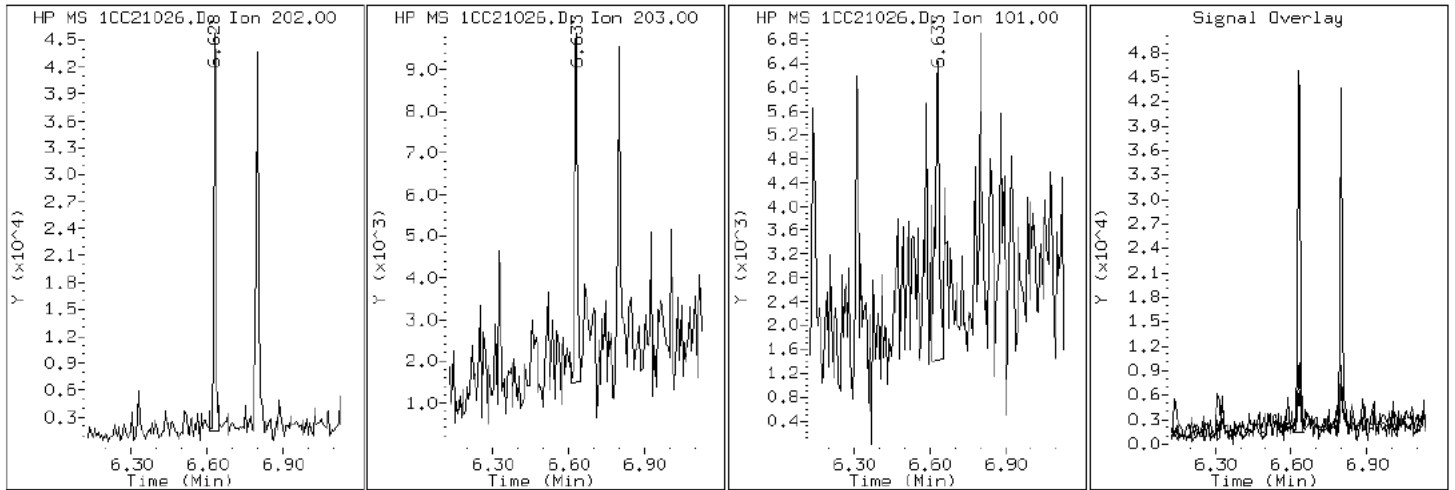
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

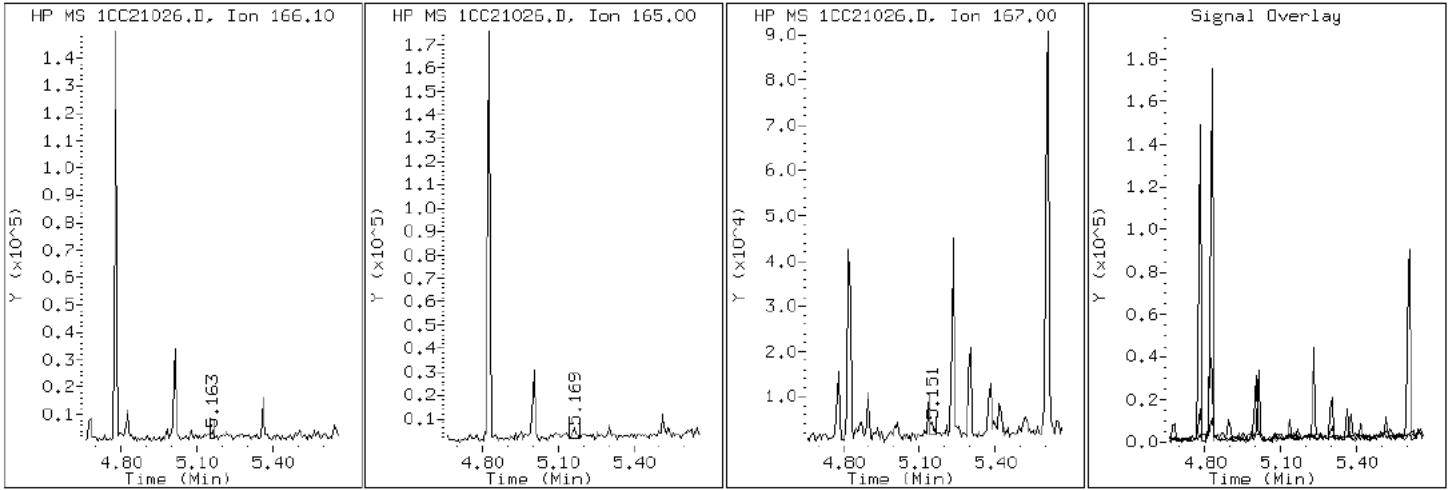
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

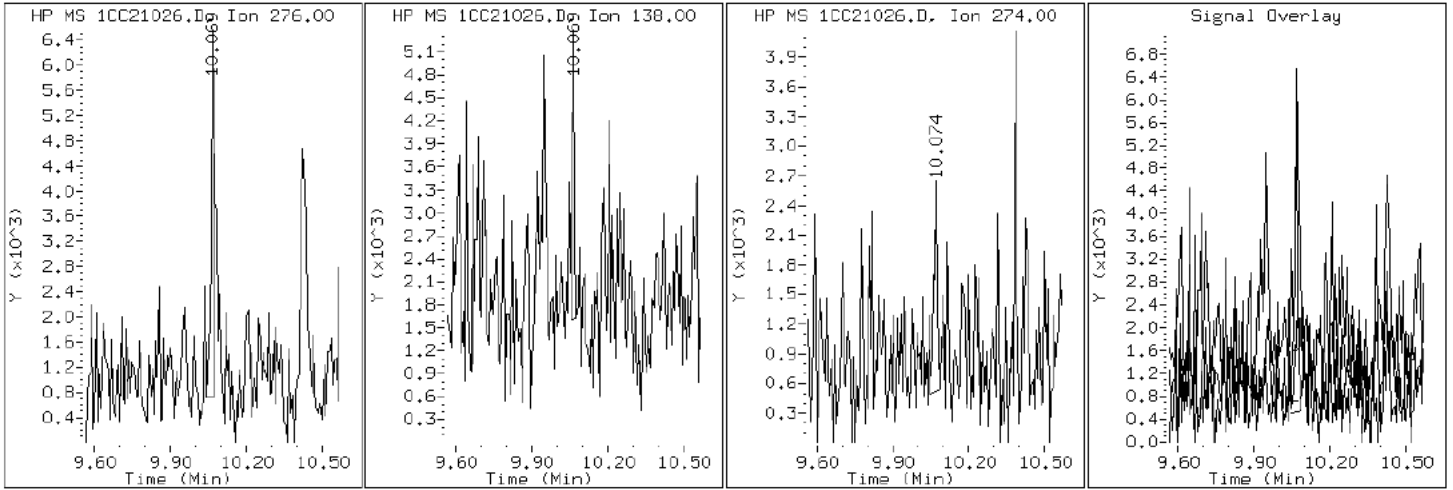
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

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



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

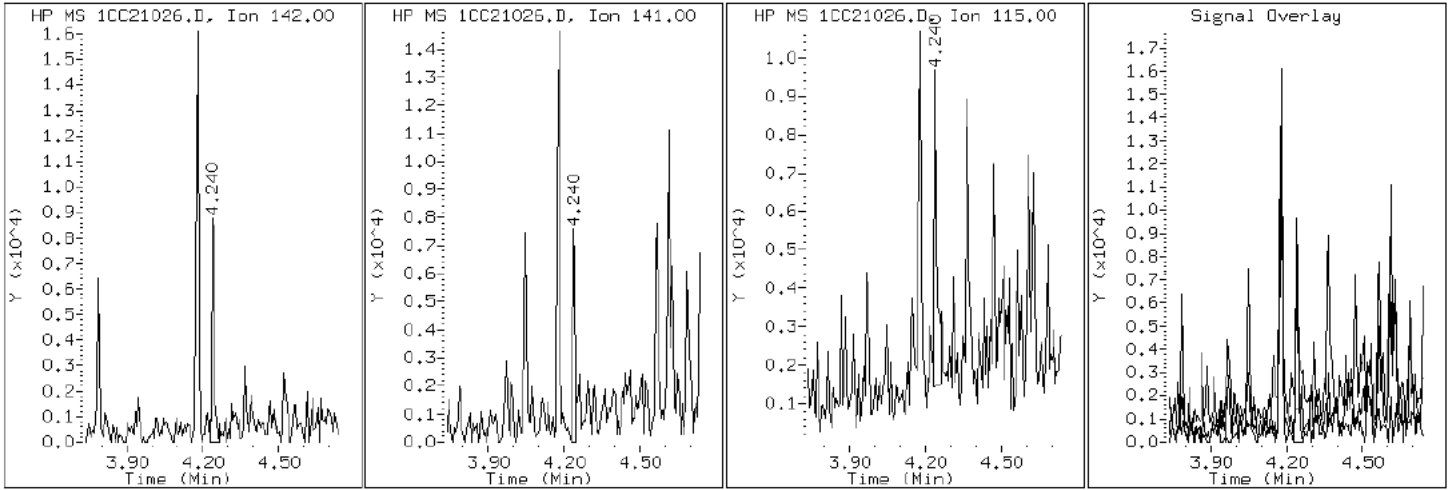
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

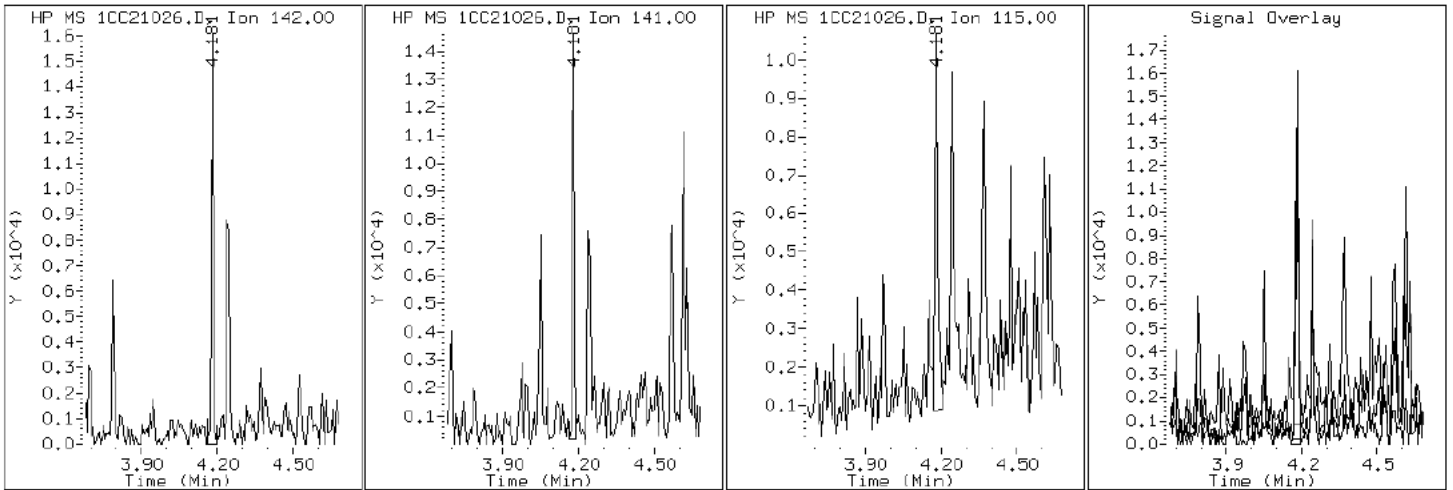
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

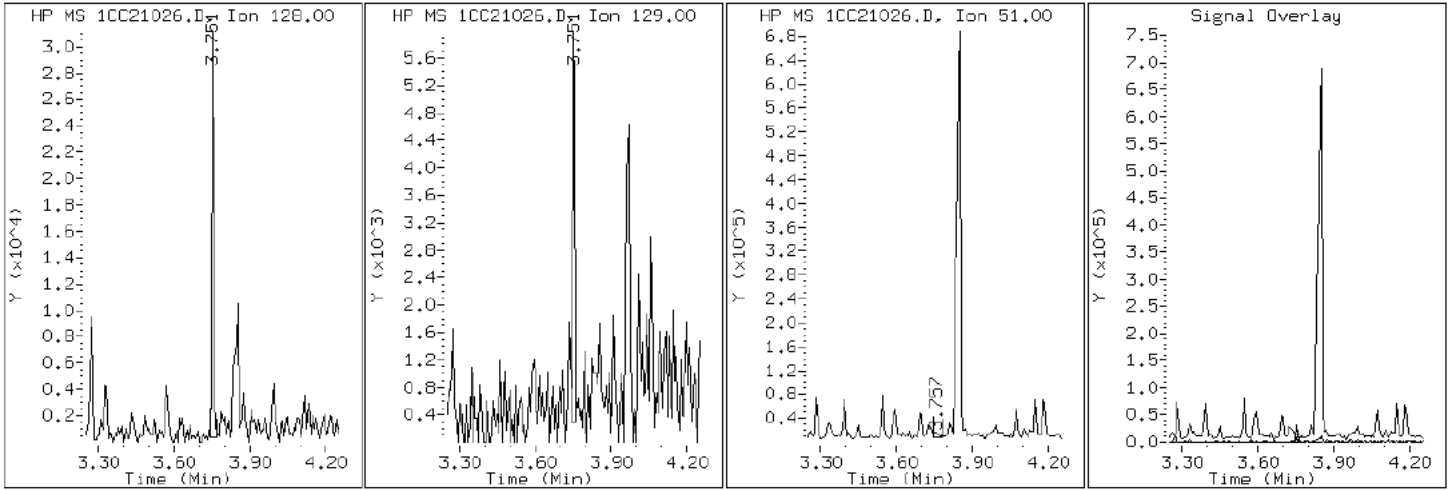
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

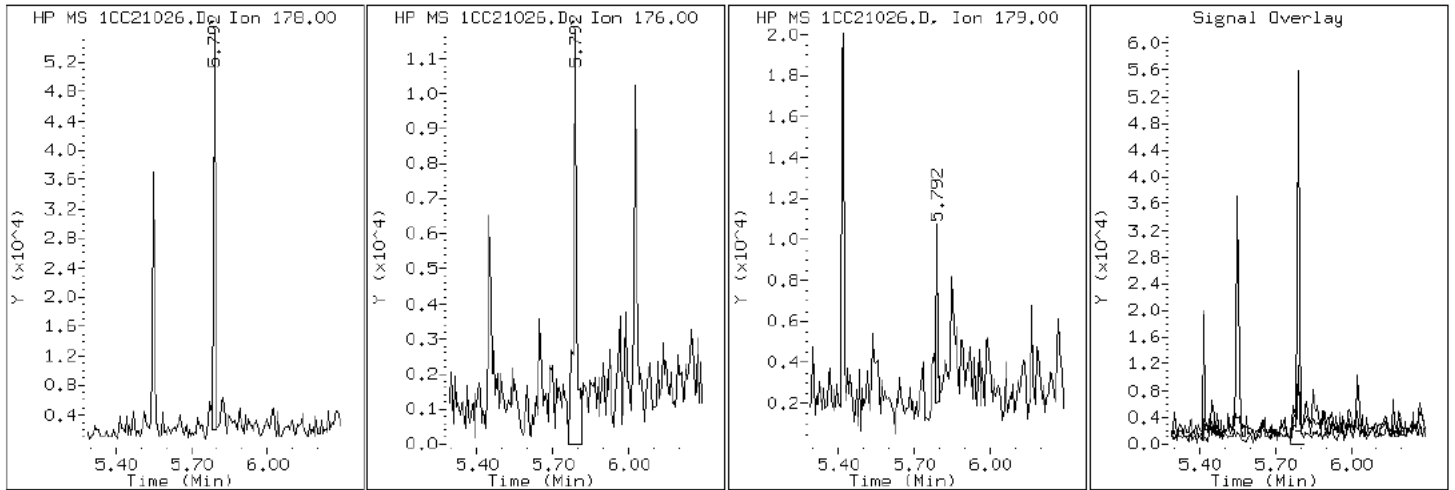
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CC21026.D

Date: 21-MAR-2013 18:37

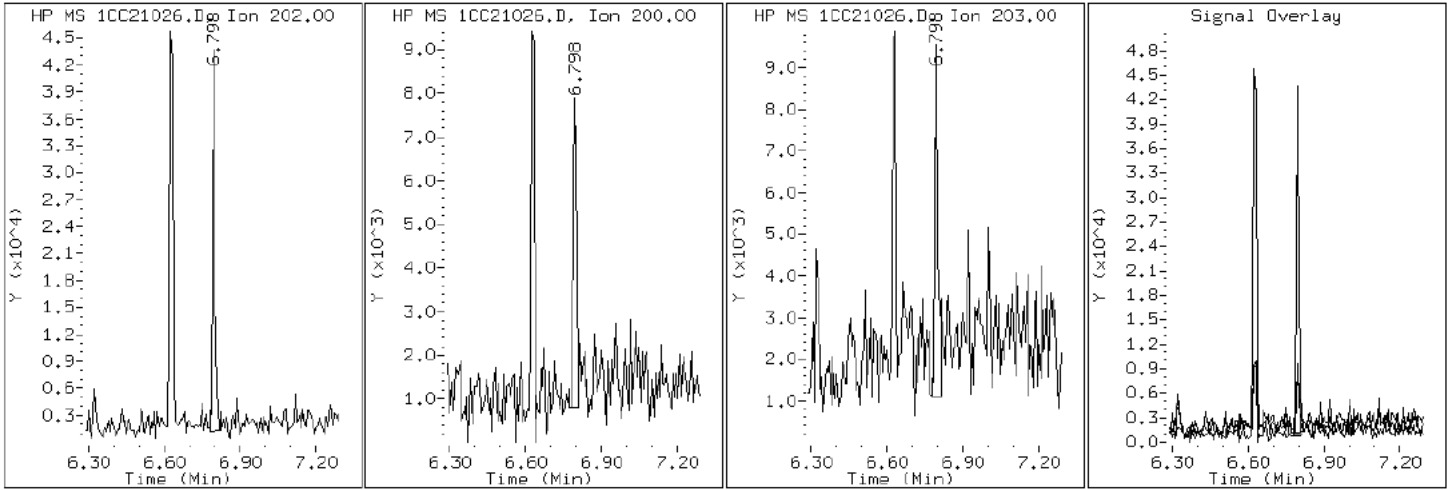
Client ID: FM0124C-CS

Instrument: BSMC5973.i

Sample Info: 680-88348-a-20-a

Operator: SCC

16 Pyrene

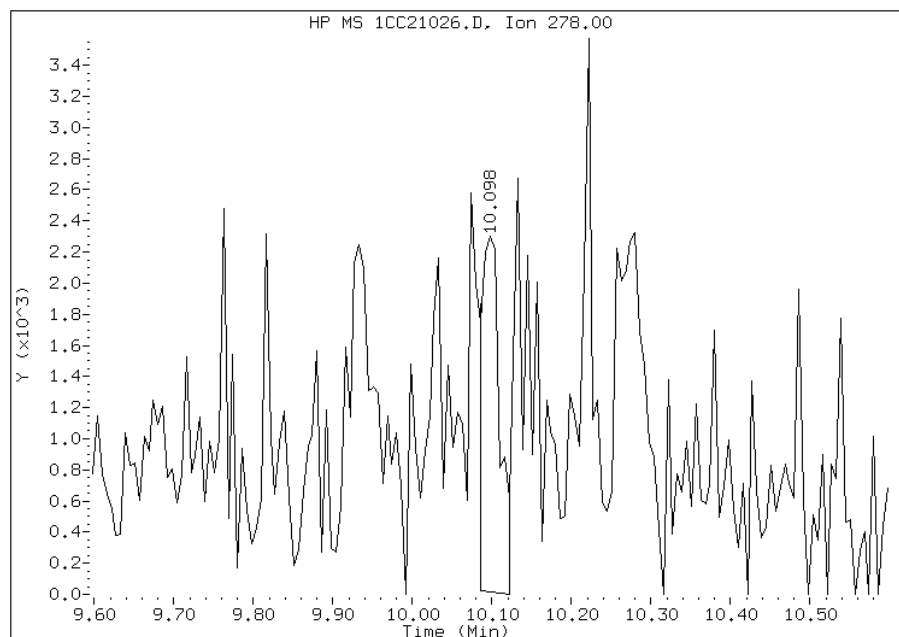


Manual Integration Report

Data File: 1CC21026.D
Inj. Date and Time: 21-MAR-2013 18:37
Instrument ID: BSMC5973.i
Client ID: FM0124C-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/25/2013

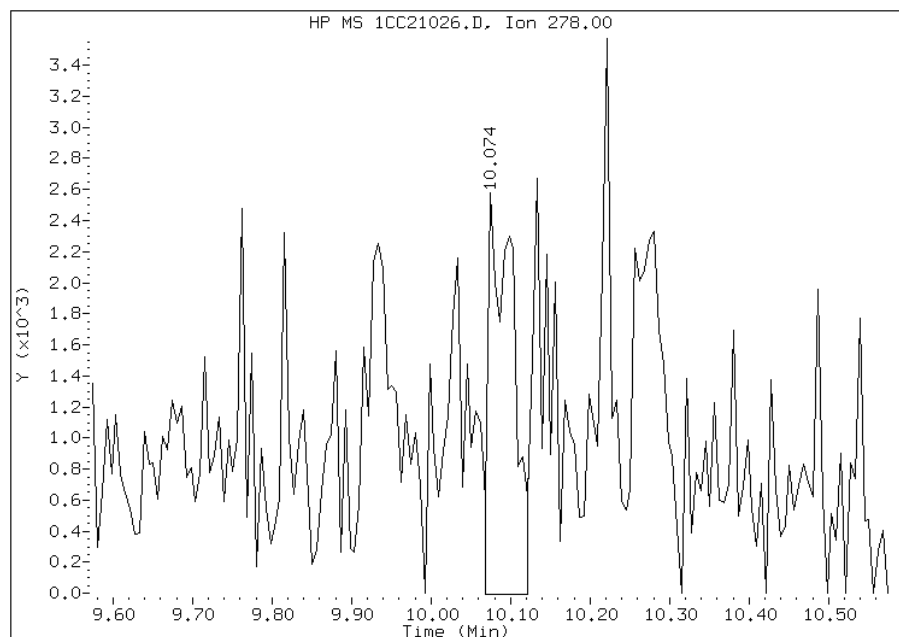
Processing Integration Results

RT: 10.10
Response: 3774
Amount: 0
Conc: 12



Manual Integration Results

RT: 10.07
Response: 5659
Amount: 0
Conc: 18



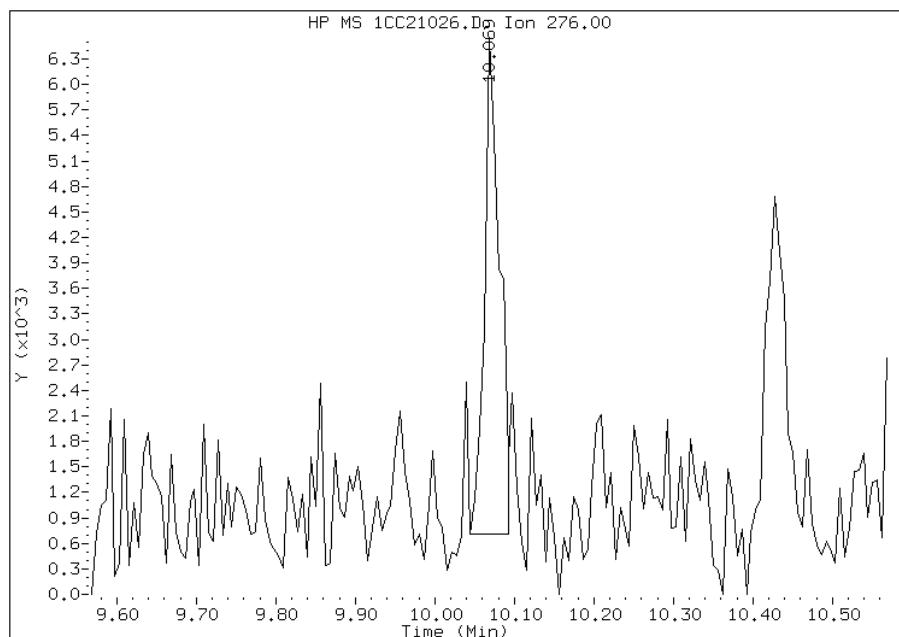
Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC21026.D
Inj. Date and Time: 21-MAR-2013 18:37
Instrument ID: BSMC5973.i
Client ID: FM0124C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

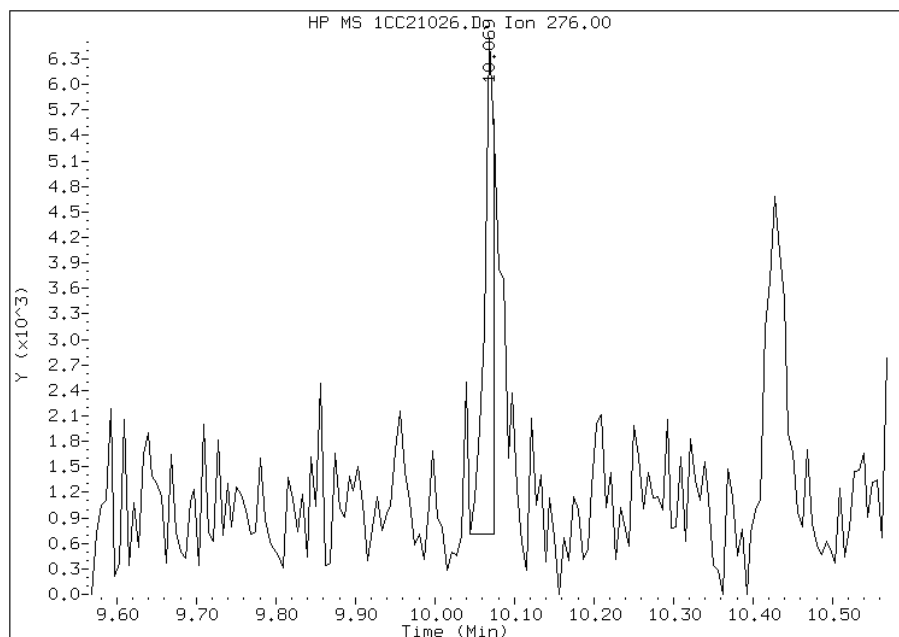
Processing Integration Results

RT: 10.07
Response: 7596
Amount: 0
Conc: 23



Manual Integration Results

RT: 10.07
Response: 5126
Amount: 0
Conc: 16



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 11:37
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1 Analy Batch No.: 134776

SDG No.: 68088348-1

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	0.9712 1.0467	1.0104 1.0669	1.0471	1.0871	1.0600	Ave		1.0414			0.0000	3.7	15.0				
2-Methylnaphthalene	0.7372 0.6936	0.6277 0.6981	0.6498	0.7330	0.7230	Ave		0.6946			0.0000	6.0	15.0				
1-Methylnaphthalene	0.5602 0.6374	0.5666 0.6603	0.6541	0.6977	0.6523	Ave		0.6326			0.0000	8.0	15.0				
Acenaphthylene	1.6507 1.6289	1.4259 1.6887	1.5782	1.6615	1.6547	Ave		1.6127			0.0000	5.5	15.0				
Acenaphthene	1.1992 0.9520	0.9269 0.9711	1.0052	0.9958	0.9664	Ave		1.0024			0.0000	9.0	15.0				
Fluorene	1.2003 1.2968	1.2155 1.3216	1.2084	1.3213	1.3097	Ave		1.2677			0.0000	4.5	15.0				
Phenanthrene	1.3236 1.1268	1.1829 1.1367	1.1369	1.0982	1.0913	Ave		1.1566			0.0000	6.9	15.0				
Anthracene	1.1830 1.1477	1.0495 1.1690	1.1368	1.1486	1.0836	Ave		1.1312			0.0000	4.2	15.0				
Carbazole	1.1097 0.9866	0.9191 1.0122	0.9992	1.0253	0.9866	Ave		1.0055			0.0000	5.7	15.0				
Fluoranthene	1.3263 1.3062	1.1270 1.2838	1.2811	1.2806	1.2615	Ave		1.2666			0.0000	5.1	15.0				
Pyrene	1.0694 1.0644	1.0908 1.1171	1.0556	1.0637	1.0636	Ave		1.0749			0.0000	2.0	15.0				
Benzo[a]anthracene	1.5187 1.0791	1.1715 1.0797	1.0862	1.0840	1.0620	Ave		1.1545			0.0000	14.3	15.0				
Chrysene	1.3833 1.1146	1.1955 1.1060	1.0804	1.1163	1.0913	Ave		1.1553			0.0000	9.3	15.0				
Benzo[b]fluoranthene	1.0729 1.0767	0.9591 1.0902	0.9699	1.0114	1.1373	Ave		1.0453			0.0000	6.4	15.0				

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1 Analy Batch No.: 134776
 SDG No.: 68088348-1
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N
 Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0803 1.0851	0.9472 1.1214	1.1337	1.1178	1.0210	Ave		1.0724			0.0000	6.2	15.0				
Benzo[a]pyrene	0.9920 1.0612	0.9445 1.0775	0.9754	1.0337	1.0234	Ave		1.0154			0.0000	4.7	15.0				
Indeno[1,2,3-cd]pyrene	0.9988 0.9513	0.8331 1.0162	0.9231	0.9673	0.9964	Ave		0.9552			0.0000	6.5	15.0				
Dibenz(a,h)anthracene	0.9790 0.9541	0.8572 0.9549	0.9225	0.9559	0.9165	Ave		0.9343			0.0000	4.3	15.0				
Benzo[g,h,i]perylene	1.0736 0.9972	0.9178 1.0017	1.0049	1.0311	0.9680	Ave		0.9992			0.0000	4.9	15.0				
o-Terphenyl	0.5990 0.6241	0.5420 0.6195	0.6120	0.6306	0.6003	Ave		0.6039			0.0000	4.9	15.0				

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

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

Lab Name: TestAmerica Tampa

Job No.: 680-88348-1

Analy Batch No.: 134776

SDG No.: 68088348-1

Instrument ID: BSMC5973

GC Column: DB-5MS

ID: 250 (um)

Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 11:57

Calibration End Date: 02/22/2013 13:48

Calibration ID: 2760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134776/3	1CB22003.D
Level 2	IC 660-134776/4	1CB22004.D
Level 3	IC 660-134776/5	1CB22005.D
Level 4	IC 660-134776/6	1CB22006.D
Level 5	ICIS 660-134776/7	1CB22007.D
Level 6	IC 660-134776/8	1CB22008.D
Level 7	IC 660-134776/9	1CB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1 Analy Batch No.: 134776

SDG No.: 68088348-1

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

Calibration Start Date: 02/22/2013 11:57 Calibration End Date: 02/22/2013 13:48 Calibration ID: 2760

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22003.D
 Lab Smp Id: IC-1512358
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1174200	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	901777	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1723779	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	5163	0.20000	0.1983
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2248468	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2426654	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	5702	0.20000	0.1865(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	4328	0.20000	0.2122
4 1-Methylnaphthalene	142	4.310	4.310	(1.133)	3289	0.20000	0.1771
5 Acenaphthylene	152	4.804	4.804	(0.982)	7443	0.20000	0.2047
7 Acenaphthene	154	4.915	4.915	(1.005)	5407	0.20000	0.2392
9 Fluorene	166	5.233	5.233	(1.070)	5412	0.20000	0.1893
11 Phenanthrene	178	5.862	5.862	(1.003)	11408	0.20000	0.2288
12 Anthracene	178	5.898	5.898	(1.009)	10196	0.20000	0.2091
13 Carbazole	167	6.004	6.004	(1.027)	9564	0.20000	0.2207
15 Fluoranthene	202	6.704	6.704	(1.147)	11431	0.20000	0.2094
16 Pyrene	202	6.874	6.874	(0.882)	12023	0.20000	0.1989
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	17074	0.20000	0.2631
19 Chrysene	228	7.815	7.815	(1.002)	15552	0.20000	0.2394
20 Benzo(b)fluoranthene	252	8.656	8.656	(0.960)	13018	0.20000	0.2052
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	13108	0.20000	0.2014
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	12036	0.20000	0.1953
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	12119	0.20000	0.2001(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.250	(1.137)	11879	0.20000	0.2095
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	13026	0.20000	0.2148

QC Flag Legend

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

Data File: 1CB22003.D

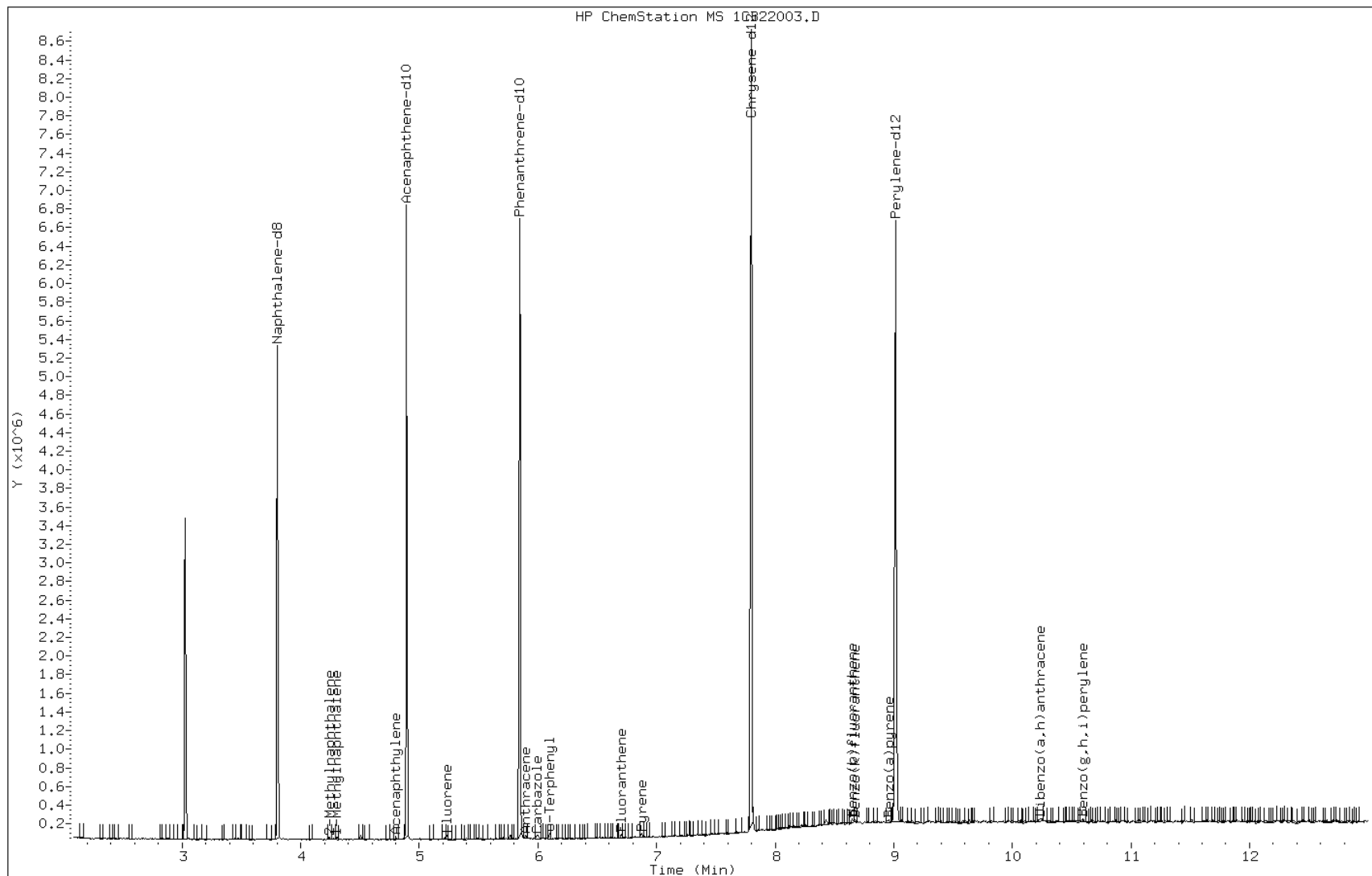
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

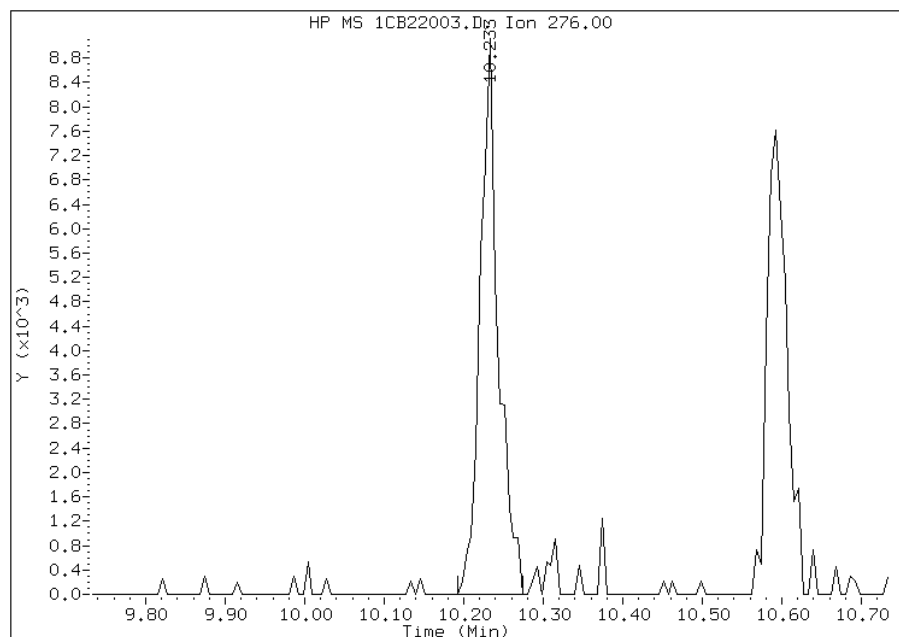


Manual Integration Report

Data File: 1CB22003.D
Inj. Date and Time: 22-FEB-2013 11:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

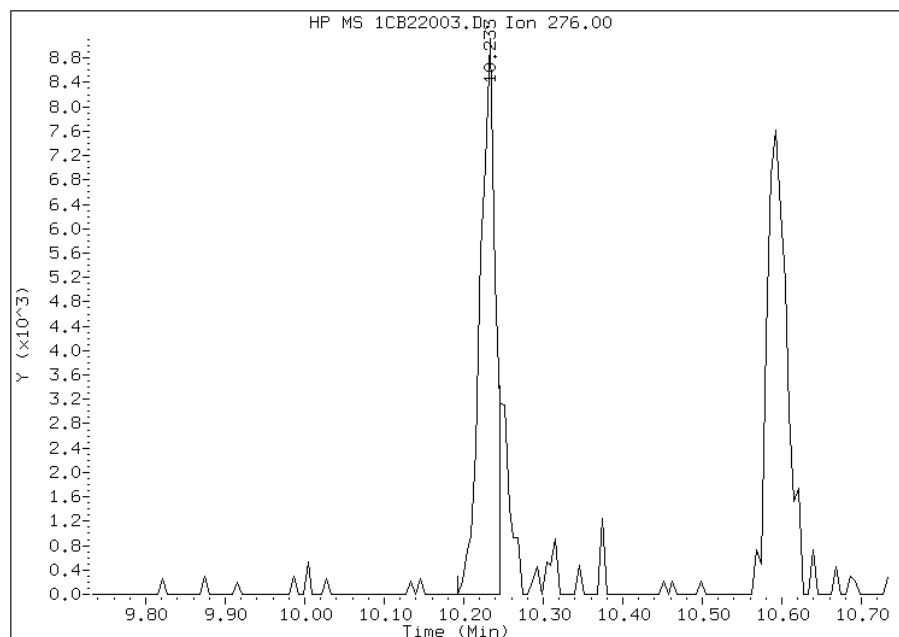
Processing Integration Results

RT: 10.23
Response: 14380
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.23
Response: 12119
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22004.D
 Lab Smp Id: IC-1512359
 Inj Date : 22-FEB-2013 12:16
 Operator : SCC
 Smp Info : IC-1512359
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1243608	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	931732	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1740509	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	23584	1.00000	0.8974
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2144273	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2349732	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	31413	1.00000	0.9702(Q)
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	19516	1.00000	0.9036
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	17615	1.00000	0.8955
5 Acenaphthylene	152	4.804	4.804	(0.982)	33214	1.00000	0.8841
7 Acenaphthene	154	4.910	4.910	(1.004)	21590	1.00000	0.9246
9 Fluorene	166	5.233	5.233	(1.070)	28314	1.00000	0.9588
11 Phenanthrene	178	5.862	5.862	(1.003)	51473	1.00000	1.0227
12 Anthracene	178	5.898	5.898	(1.009)	45666	1.00000	0.9277
13 Carbazole	167	6.004	6.004	(1.027)	39992	1.00000	0.9140
15 Fluoranthene	202	6.704	6.704	(1.147)	49039	1.00000	0.8897
16 Pyrene	202	6.874	6.874	(0.882)	58472	1.00000	1.0147
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	62799	1.00000	1.0147
19 Chrysene	228	7.815	7.815	(1.002)	64086	1.00000	1.0347
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	56338	1.00000	0.9174
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	55640	1.00000	0.8832
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	55481	1.00000	0.9301
24 Indeno(1,2,3-cd)pyrene	276	10.221	10.221	(1.134)	48940	1.00000	0.8346(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	50354	1.00000	0.9174
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	53913	1.00000	0.9185

QC Flag Legend

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

Data File: 1CB22004.D

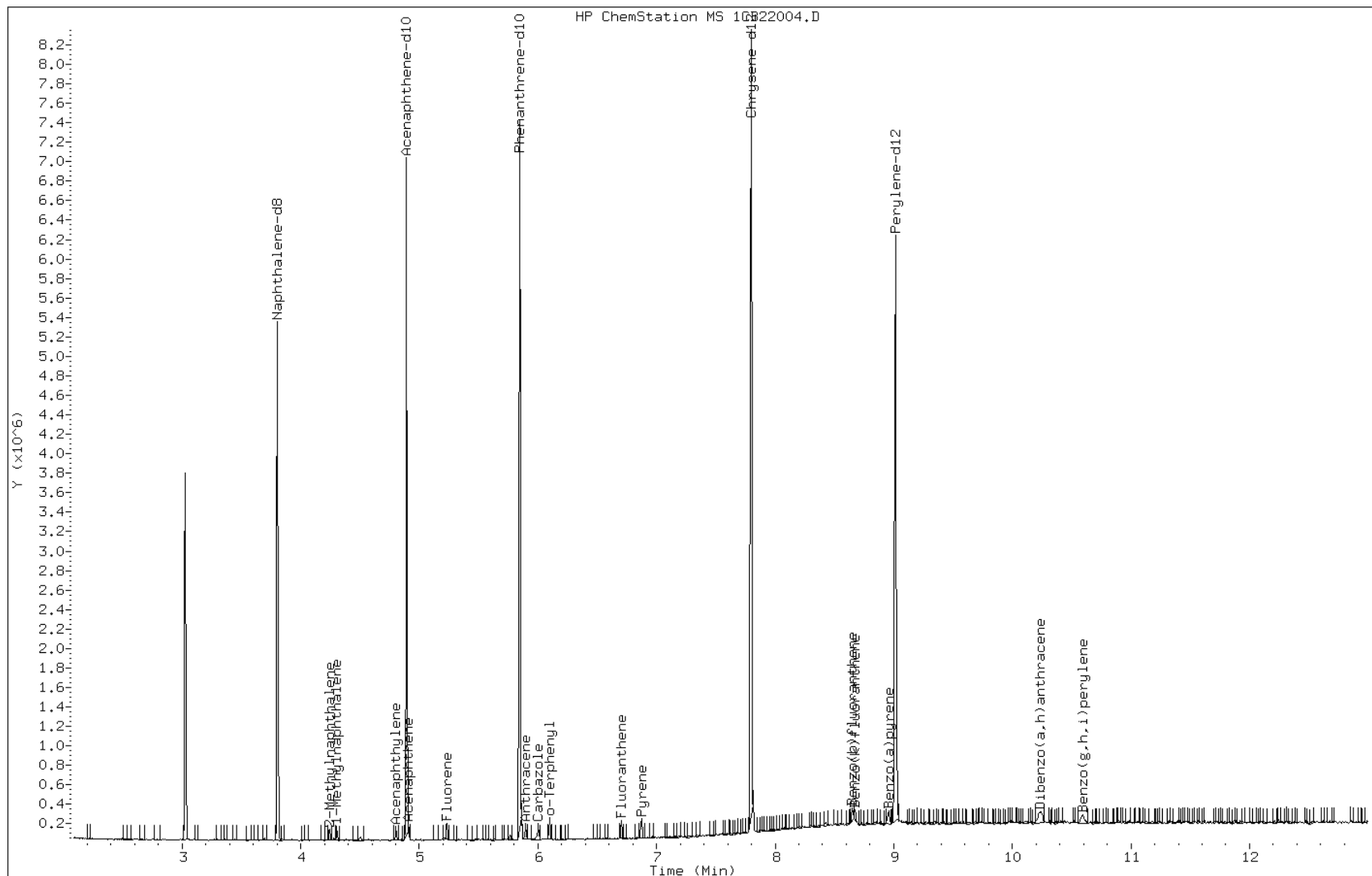
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

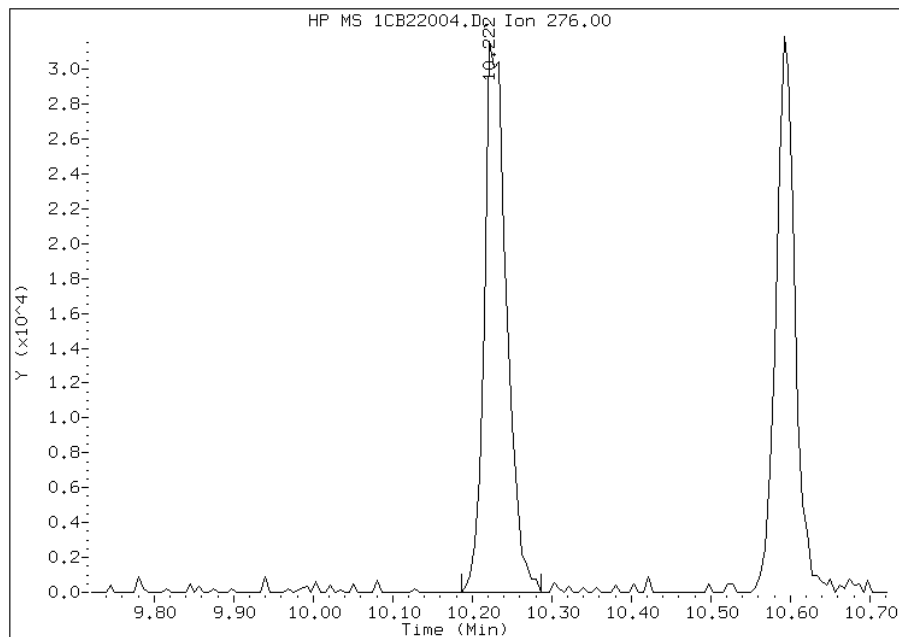


Manual Integration Report

Data File: 1CB22004.D
Inj. Date and Time: 22-FEB-2013 12:16
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

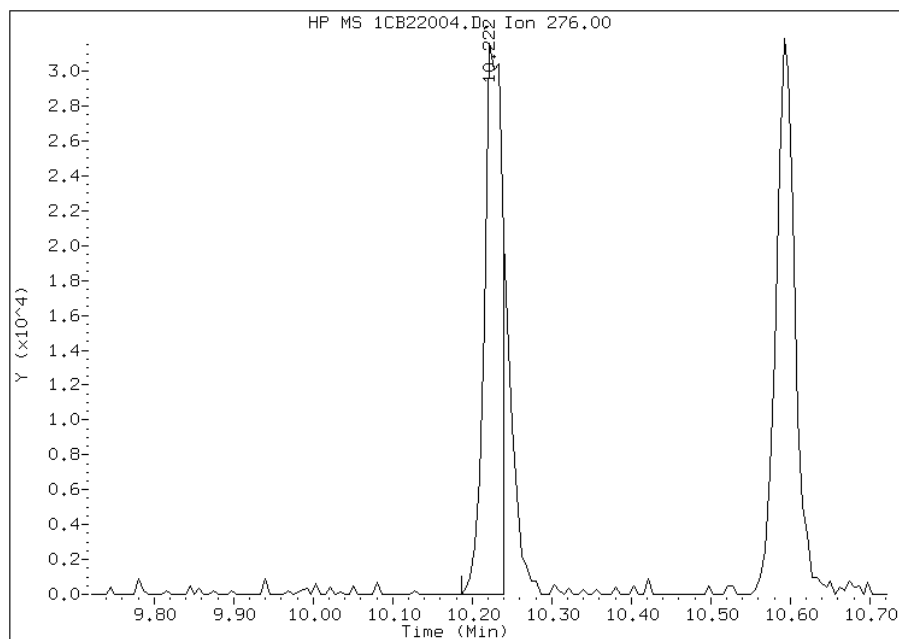
Processing Integration Results

RT: 10.22
Response: 61246
Amount: 1
Conc: 1



Manual Integration Results

RT: 10.22
Response: 48940
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22005.D
 Lab Smp Id: IC-1512360
 Inj Date : 22-FEB-2013 12:34
 Operator : SCC
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1133793	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	874757	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1651631	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	126358	5.00000	5.0671
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2174554	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2317716	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	148399	5.00000	5.0275
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	92089	5.00000	4.6771
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	92698	5.00000	5.1694
5 Acenaphthylene	152	4.804	4.804	(0.982)	172573	5.00000	4.8932
7 Acenaphthene	154	4.910	4.910	(1.004)	109910	5.00000	5.0139
9 Fluorene	166	5.233	5.233	(1.070)	132137	5.00000	4.7663
11 Phenanthrene	178	5.863	5.863	(1.003)	234717	5.00000	4.9147
12 Anthracene	178	5.898	5.898	(1.009)	234701	5.00000	5.0249
13 Carbazole	167	6.004	6.004	(1.027)	206292	5.00000	4.9685
15 Fluoranthene	202	6.704	6.704	(1.147)	264484	5.00000	5.0569
16 Pyrene	202	6.874	6.874	(0.882)	286919	5.00000	4.9098
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	295256	5.00000	4.7043
19 Chrysene	228	7.815	7.815	(1.002)	293675	5.00000	4.6756
20 Benzo(b)fluoranthene	252	8.651	8.651	(0.960)	280988	5.00000	4.6390
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	328460	5.00000	5.2861
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	282594	5.00000	4.8032
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	267436	5.00000	4.6238(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	267252	5.00000	4.9366
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	291148	5.00000	5.0287

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22005.D

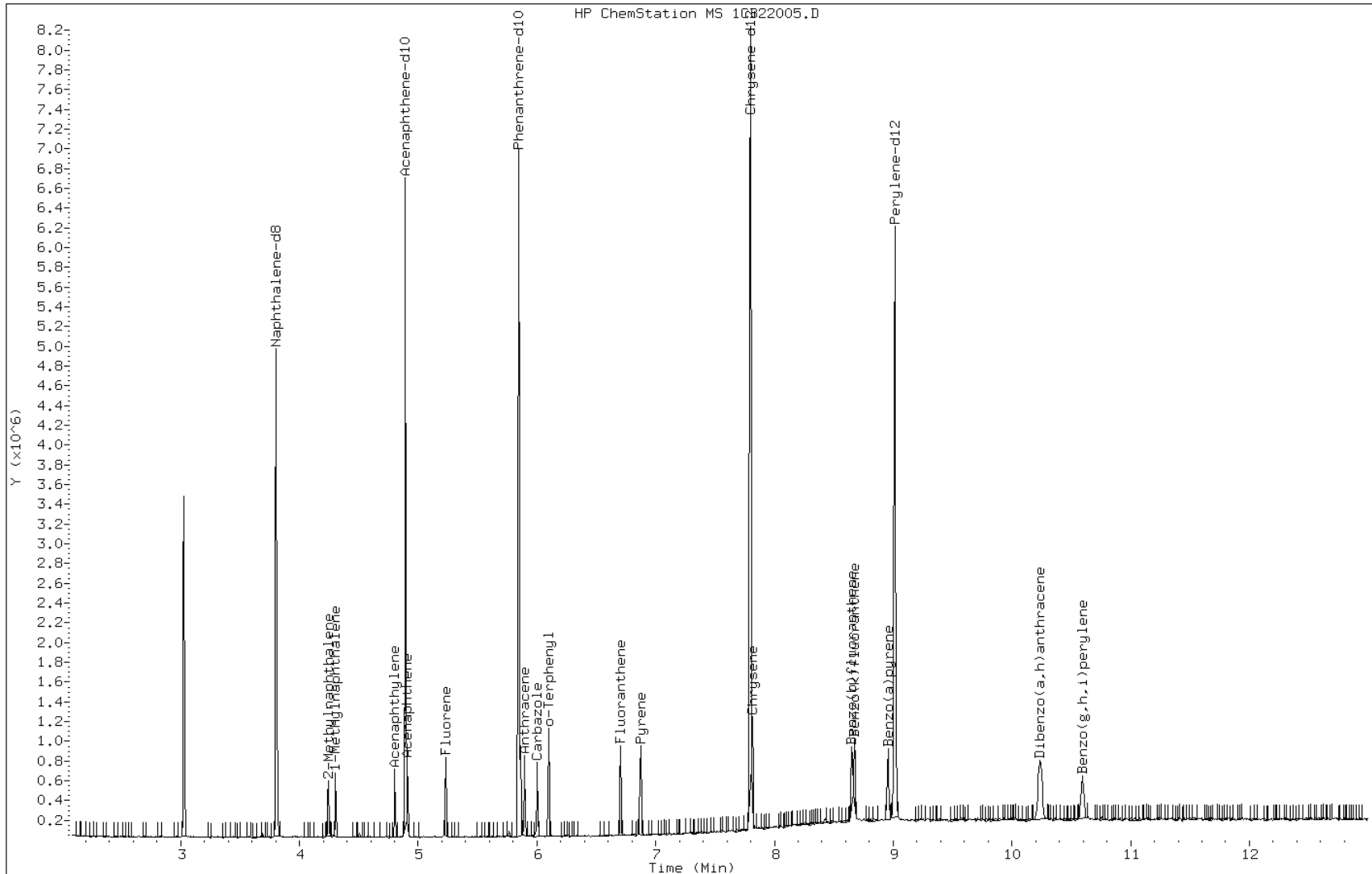
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

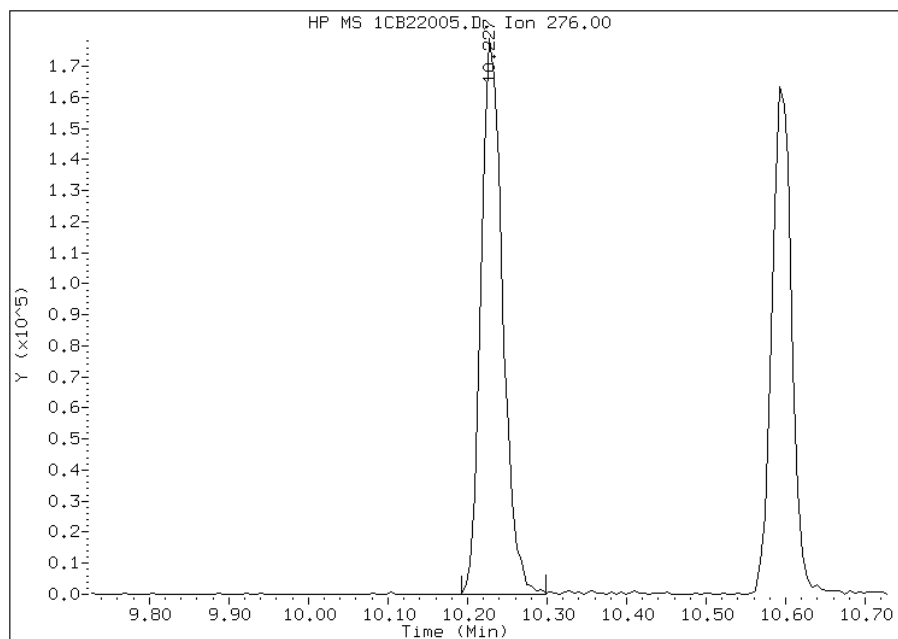


Manual Integration Report

Data File: 1CB22005.D
Inj. Date and Time: 22-FEB-2013 12:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

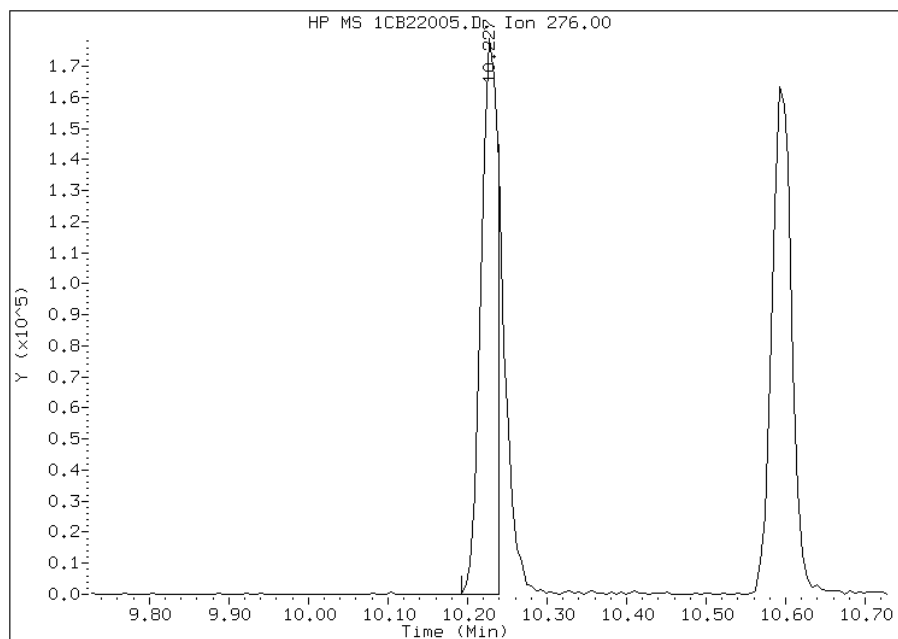
Processing Integration Results

RT: 10.23
Response: 336913
Amount: 6
Conc: 6



Manual Integration Results

RT: 10.23
Response: 267436
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22006.D
 Lab Smp Id: IC-1512361
 Inj Date : 22-FEB-2013 12:53
 Operator : SCC
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1161301	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	893287	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1727894	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	272397	10.0000	10.4413
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2207928	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2410622	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	315626	10.0000	10.4397
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	212804	10.0000	10.5522
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	202550	10.0000	11.0278
5 Acenaphthylene	152	4.804	4.804	(0.982)	371048	10.0000	10.3027
7 Acenaphthene	154	4.910	4.910	(1.004)	222376	10.0000	9.9341
9 Fluorene	166	5.233	5.233	(1.070)	295086	10.0000	10.4233
11 Phenanthrene	178	5.862	5.862	(1.003)	474400	10.0000	9.4950
12 Anthracene	178	5.898	5.898	(1.009)	496179	10.0000	10.1543
13 Carbazole	167	6.004	6.004	(1.027)	442919	10.0000	10.1969
15 Fluoranthene	202	6.704	6.704	(1.147)	553174	10.0000	10.1099
16 Pyrene	202	6.874	6.874	(0.882)	587163	10.0000	9.8957
17 Benzo(a)anthracene	228	7.786	7.786	(0.998)	598352	10.0000	9.3895
19 Chrysene	228	7.815	7.815	(1.002)	616185	10.0000	9.6621
20 Benzo(b)fluoranthene	252	8.650	8.650	(0.960)	609549	10.0000	9.6756
21 Benzo(k)fluoranthene	252	8.674	8.674	(0.962)	673624	10.0000	10.4233
22 Benzo(a)pyrene	252	8.956	8.956	(0.993)	622966	10.0000	10.1804
24 Indeno(1,2,3-cd)pyrene	276	10.227	10.227	(1.134)	582935	10.0000	9.6902(M)
25 Dibenzo(a,h)anthracene	278	10.245	10.245	(1.136)	576071	10.0000	10.2310
26 Benzo(g,h,i)perylene	276	10.592	10.592	(1.175)	621425	10.0000	10.3197

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22006.D

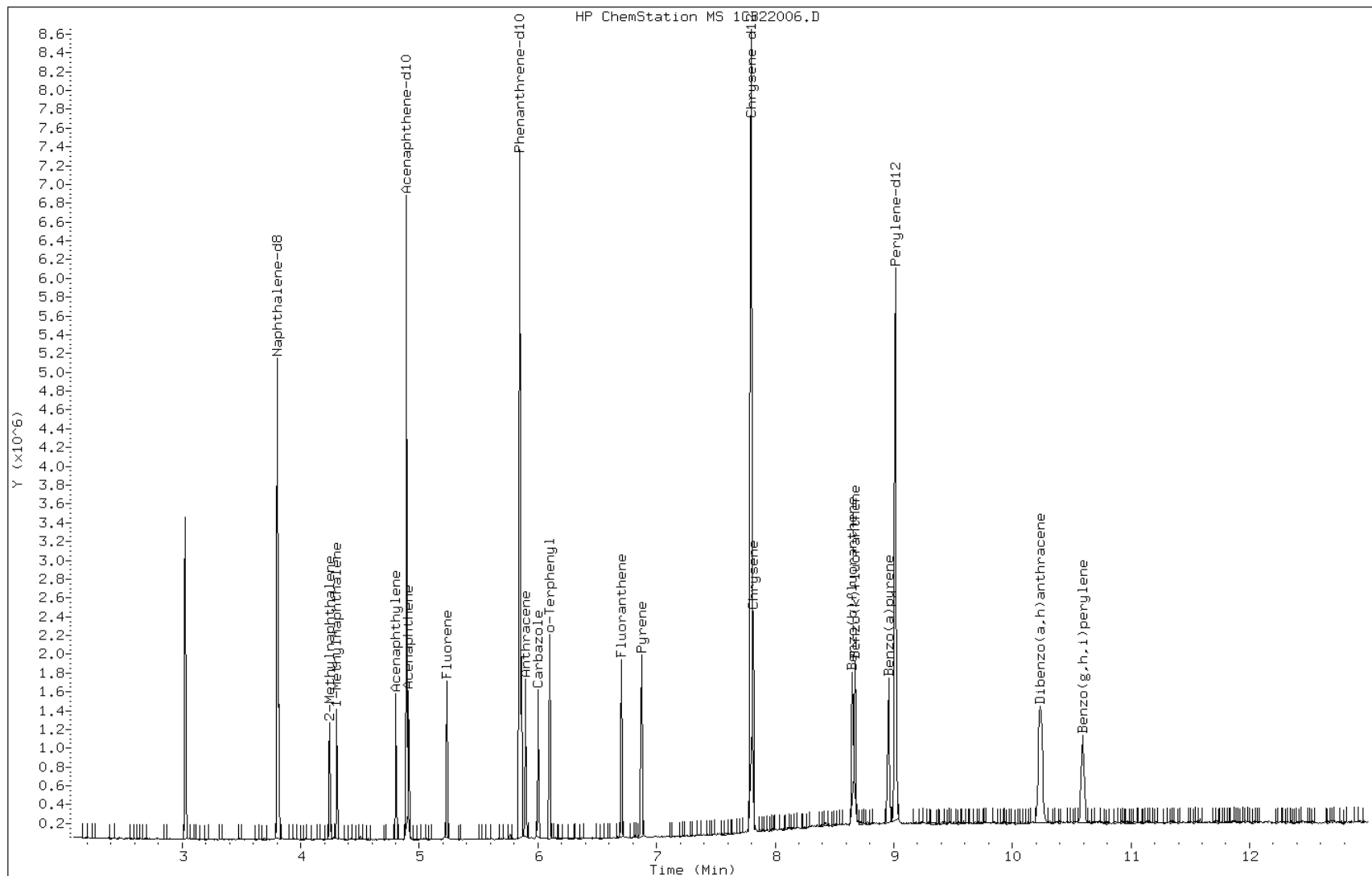
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

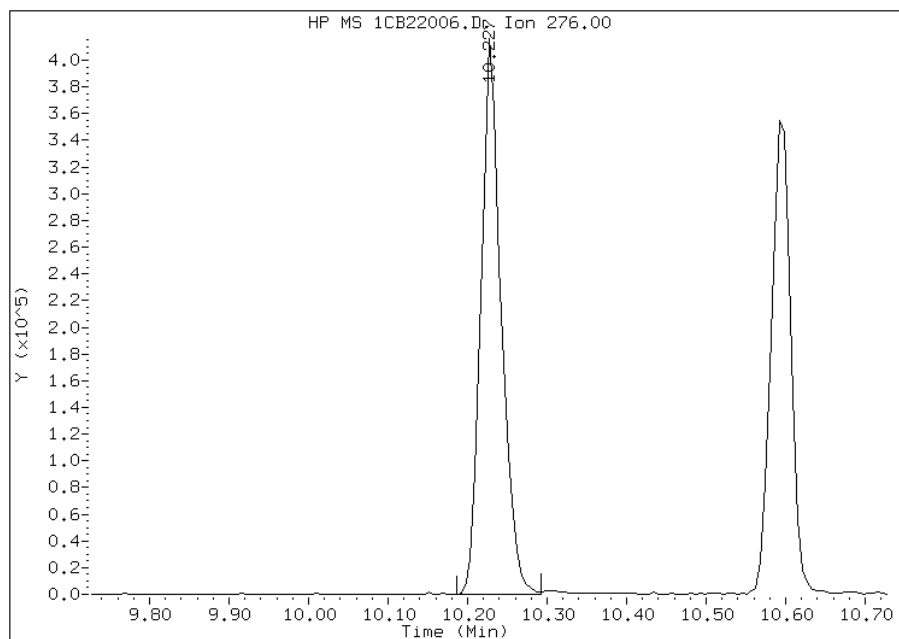


Manual Integration Report

Data File: 1CB22006.D
Inj. Date and Time: 22-FEB-2013 12:53
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

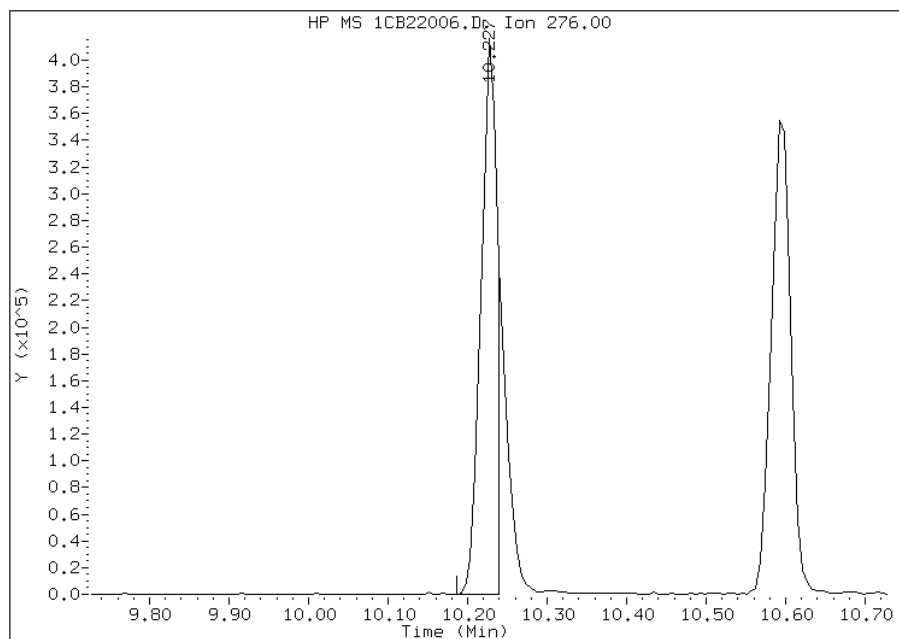
Processing Integration Results

RT: 10.23
Response: 727358
Amount: 13
Conc: 13



Manual Integration Results

RT: 10.23
Response: 582935
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:14
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22007.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 22-FEB-2013 13:11
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.804	3.804	(1.000)	1215005	40.0000	
* 6 Acenaphthene-d10	164	4.892	4.892	(1.000)	932815	40.0000	
* 10 Phenanthrene-d10	188	5.845	5.845	(1.000)	1859738	40.0000	
\$ 14 o-Terphenyl	230	6.098	6.098	(1.043)	558161	20.0000	19.8783
* 18 Chrysene-d12	240	7.798	7.798	(1.000)	2424157	40.0000	
* 23 Perylene-d12	264	9.015	9.015	(1.000)	2664188	40.0000	
2 Naphthalene	128	3.816	3.816	(1.003)	643945	20.0000	20.3579
3 2-Methylnaphthalene	142	4.245	4.245	(1.116)	439231	20.0000	20.8172
4 1-Methylnaphthalene	142	4.304	4.304	(1.131)	396283	20.0000	20.6220
5 Acenaphthylene	152	4.804	4.804	(0.982)	771781	20.0000	20.5216
7 Acenaphthene	154	4.910	4.910	(1.004)	450754	20.0000	19.2831
9 Fluorene	166	5.233	5.233	(1.070)	610839	20.0000	20.6625
11 Phenanthrene	178	5.863	5.863	(1.003)	1014750	20.0000	18.8701
12 Anthracene	178	5.898	5.898	(1.009)	1007571	20.0000	19.1582
13 Carbazole	167	6.004	6.004	(1.027)	917432	20.0000	19.6239
15 Fluoranthene	202	6.704	6.704	(1.147)	1173070	20.0000	19.9194
16 Pyrene	202	6.874	6.874	(0.882)	1289224	20.0000	19.7898
17 Benzo(a)anthracene	228	7.792	7.792	(0.999)	1287277	20.0000	18.3986
19 Chrysene	228	7.815	7.815	(1.002)	1322748	20.0000	18.8914
20 Benzo(b)fluoranthene	252	8.657	8.657	(0.960)	1514965	20.0000	21.7588
21 Benzo(k)fluoranthene	252	8.680	8.680	(0.963)	1360131	20.0000	19.0428
22 Benzo(a)pyrene	252	8.957	8.957	(0.993)	1363217	20.0000	20.1573
24 Indeno(1,2,3-cd)pyrene	276	10.233	10.233	(1.135)	1327322	20.0000	19.9642(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.251	(1.137)	1220845	20.0000	19.6186
26 Benzo(g,h,i)perylene	276	10.598	10.598	(1.175)	1289503	20.0000	19.3760

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22007.D

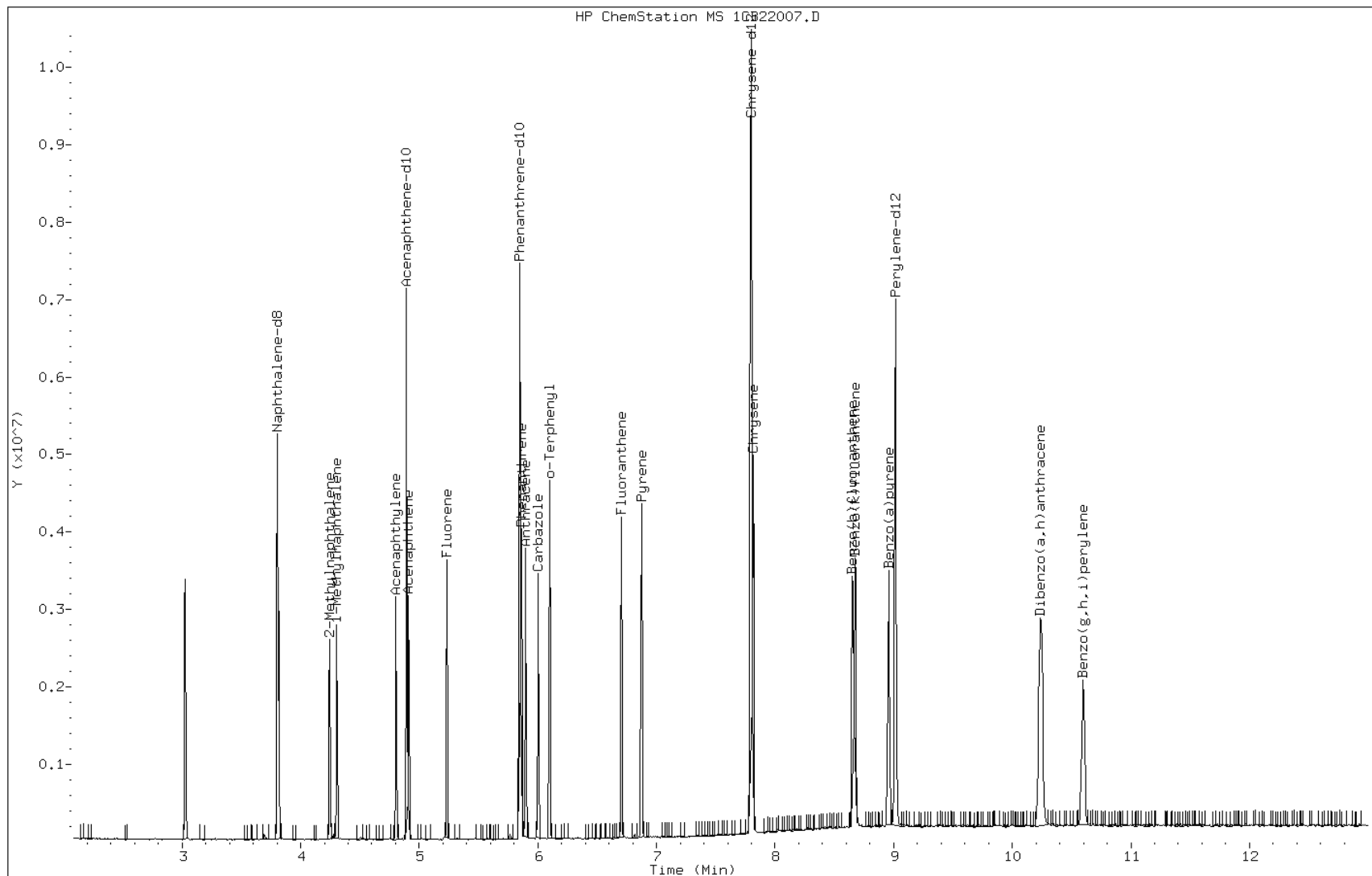
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

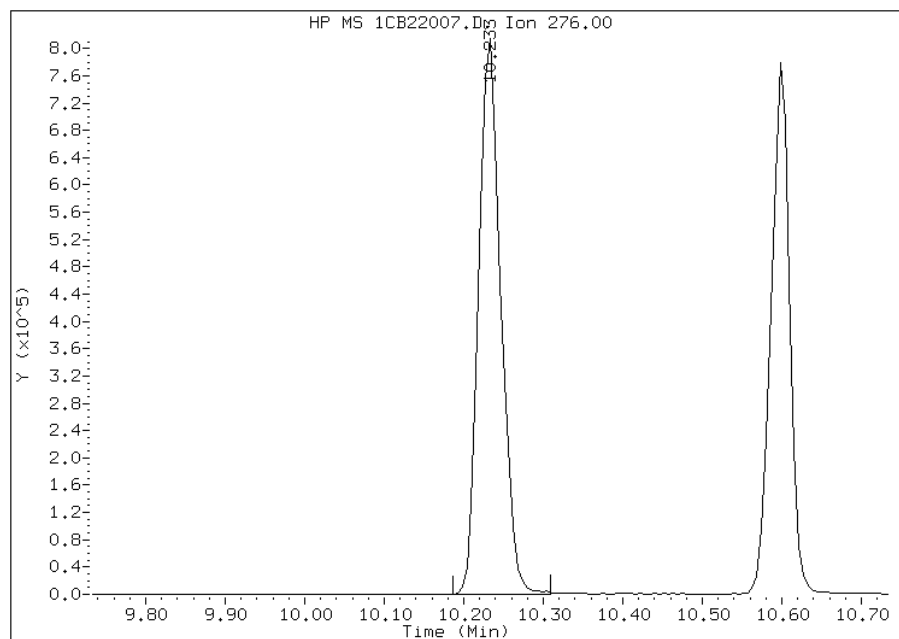


Manual Integration Report

Data File: 1CB22007.D
Inj. Date and Time: 22-FEB-2013 13:11
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

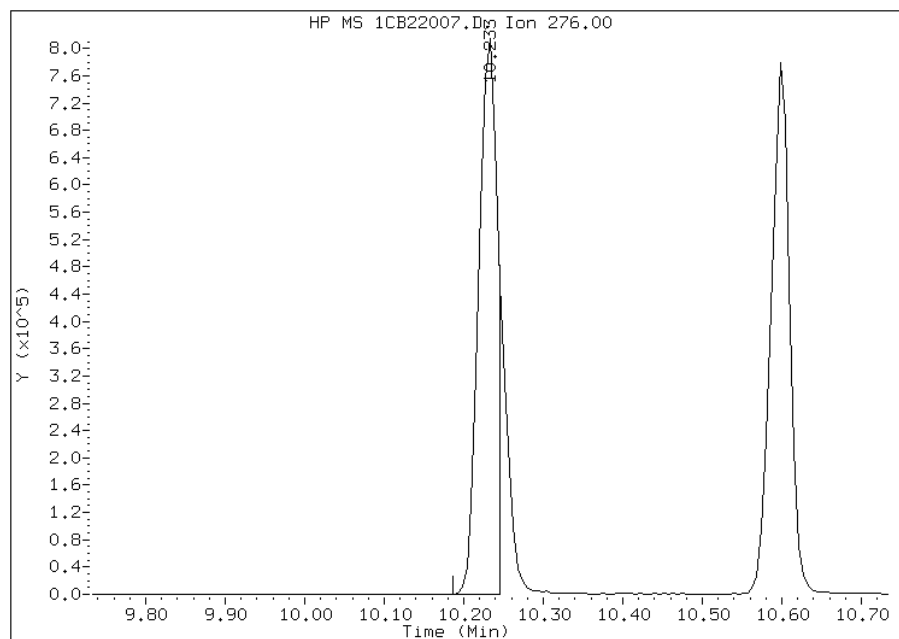
Processing Integration Results

RT: 10.23
Response: 1569498
Amount: 25
Conc: 25



Manual Integration Results

RT: 10.23
Response: 1327322
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:11
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\1CB22008.D
 Lab Smp Id: IC-1512373
 Inj Date : 22-FEB-2013 13:29
 Operator : SCC
 Smp Info : IC-1512373
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1245095	40.0000	
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	988838	40.0000	
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	1864829	40.0000	
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	872937	30.0000	31.0038
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2477918	40.0000	
* 23 Perylene-d12	264		9.015	9.015	(1.000)	2673716	40.0000	
2 Naphthalene	128		3.816	3.816	(1.003)	977462	30.0000	30.1550
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	647691	30.0000	29.9553
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	595177	30.0000	30.2237
5 Acenaphthylene	152		4.804	4.804	(0.982)	1208002	30.0000	30.3009
7 Acenaphthene	154		4.910	4.910	(1.004)	706037	30.0000	28.4928
9 Fluorene	166		5.233	5.233	(1.070)	961751	30.0000	30.6894
11 Phenanthrene	178		5.863	5.863	(1.003)	1575924	30.0000	29.2256
12 Anthracene	178		5.898	5.898	(1.009)	1605221	30.0000	30.4388
13 Carbazole	167		6.004	6.004	(1.027)	1379814	30.0000	29.4337
15 Fluoranthene	202		6.704	6.704	(1.147)	1826908	30.0000	30.9373
16 Pyrene	202		6.874	6.874	(0.882)	1978030	30.0000	29.7043
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	2005529	30.0000	28.0424
19 Chrysene	228		7.821	7.821	(1.003)	2071419	30.0000	28.9420
20 Benzo(b)fluoranthene	252		8.656	8.656	(0.960)	2159068	30.0000	30.8993
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	2175966	30.0000	30.3566
22 Benzo(a)pyrene	252		8.962	8.962	(0.994)	2128065	30.0000	31.3547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.233	(1.135)	1907725	30.0000	28.5918(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.250	(1.137)	1913283	30.0000	30.6363
26 Benzo(g,h,i)perylene	276		10.603	10.603	(1.176)	1999689	30.0000	29.9402

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22008.D

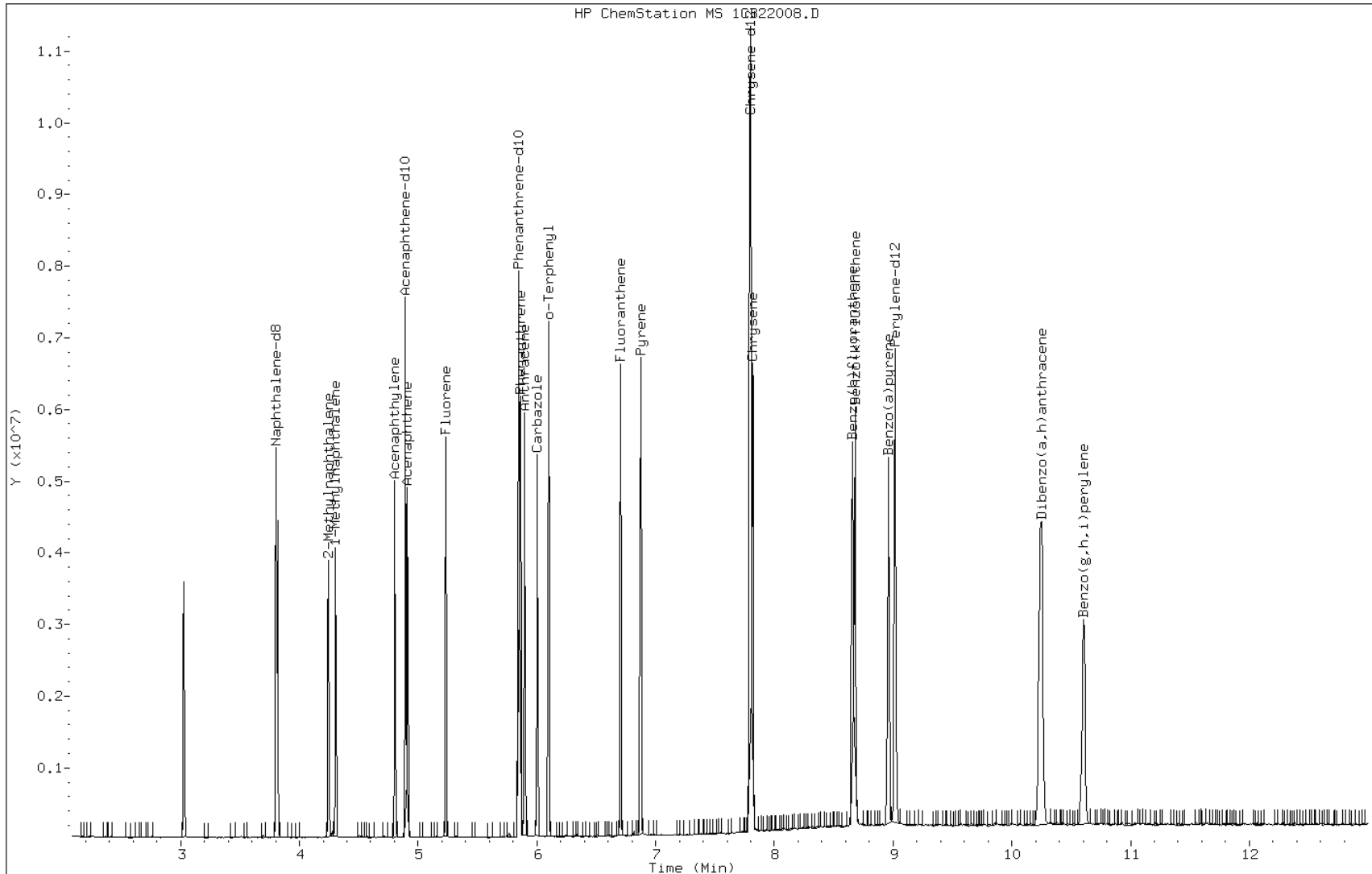
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

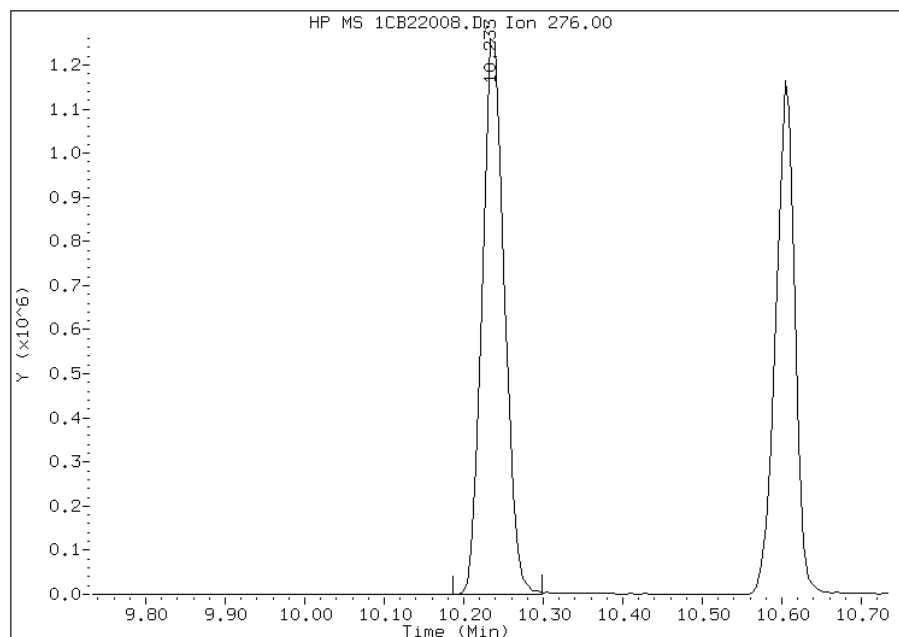


Manual Integration Report

Data File: 1CB22008.D
Inj. Date and Time: 22-FEB-2013 13:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

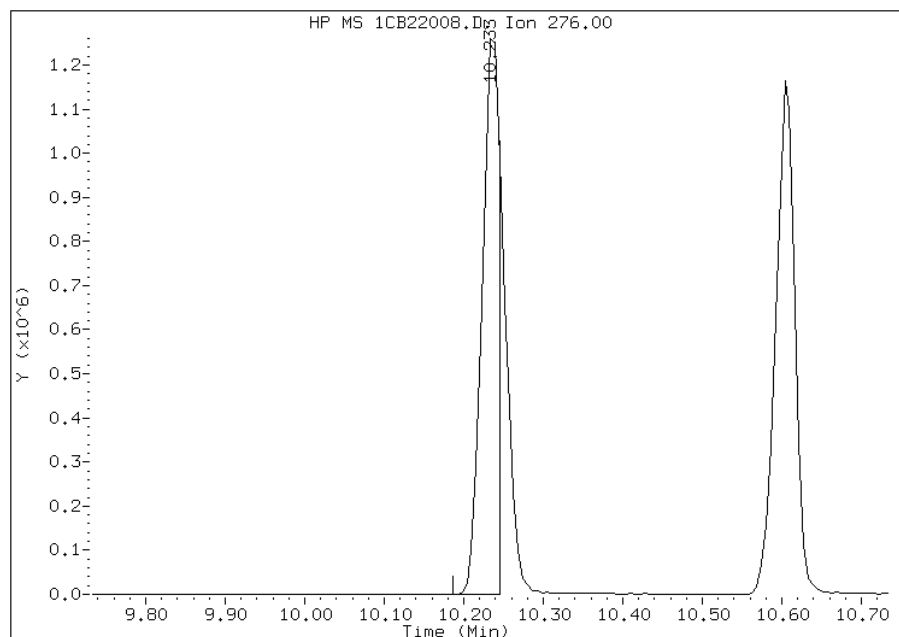
Processing Integration Results

RT: 10.23
Response: 2435528
Amount: 36
Conc: 36



Manual Integration Results

RT: 10.23
Response: 1907725
Amount: 29
Conc: 29



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22009.D
 Lab Smp Id: IC-1512374
 Inj Date : 22-FEB-2013 13:48
 Operator : SCC
 Smp Info : IC-1512374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\A-BFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT	SIG	AMOUNTS					ON-COL	
			CAL-AMT	ON-COL	MASS	RT	EXP RT		REL RT
* 1 Naphthalene-d8	136		40.0000		3.804	3.804	(1.000)	1341221	
* 6 Acenaphthene-d10	164		40.0000		4.892	4.892	(1.000)	1022497	
* 10 Phenanthrene-d10	188		40.0000		5.845	5.845	(1.000)	1952764	
\$ 14 o-Terphenyl	230		50.0000	51.2857(A)	6.098	6.098	(1.043)	1512079	
* 18 Chrysene-d12	240		40.0000		7.798	7.798	(1.000)	2476604	
* 23 Perylene-d12	264		40.0000		9.015	9.015	(1.000)	2509650	
2 Naphthalene	128		50.0000	51.2265(A)	3.815	3.815	(1.003)	1788680	
3 2-Methylnaphthalene	142		50.0000	50.2513(A)	4.245	4.245	(1.116)	1170415	
4 1-Methylnaphthalene	142		50.0000	52.1840(A)	4.304	4.304	(1.131)	1106965	
5 Acenaphthylene	152		50.0000	52.3585(A)	4.804	4.804	(0.982)	2158422	
7 Acenaphthene	154		50.0000	48.4415	4.910	4.910	(1.004)	1241216	
9 Fluorene	166		50.0000	52.1276(A)	5.233	5.233	(1.070)	1689190	
11 Phenanthrene	178		50.0000	49.1366	5.862	5.862	(1.003)	2774518	
12 Anthracene	178		50.0000	51.6717(A)	5.898	5.898	(1.009)	2853457	
13 Carbazole	167		50.0000	50.3338(A)	6.004	6.004	(1.027)	2470847	
15 Fluoranthene	202		50.0000	50.6773(A)	6.704	6.704	(1.147)	3133704	
16 Pyrene	202		50.0000	51.9617(A)	6.874	6.874	(0.882)	3458322	
17 Benzo(a)anthracene	228		50.0000	46.7626	7.792	7.792	(0.999)	3342573	
19 Chrysene	228		50.0000	47.8628	7.821	7.821	(1.003)	3423784	
20 Benzo(b)fluoranthene	252		50.0000	52.1444(A)	8.656	8.656	(0.960)	3419972	
21 Benzo(k)fluoranthene	252		50.0000	52.2859(A)	8.680	8.680	(0.963)	3517880	
22 Benzo(a)pyrene	252		50.0000	53.0576(A)	8.962	8.962	(0.994)	3380087	
24 Indeno(1,2,3-cd)pyrene	276		50.0000	50.9008(AM)	10.239	10.239	(1.136)	3187834	
25 Dibenzo(a,h)anthracene	278		50.0000	51.1034(A)	10.256	10.256	(1.138)	2995648	
26 Benzo(g,h,i)perylene	276		50.0000	50.1261(A)	10.609	10.609	(1.177)	3142464	

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1CB22009.D

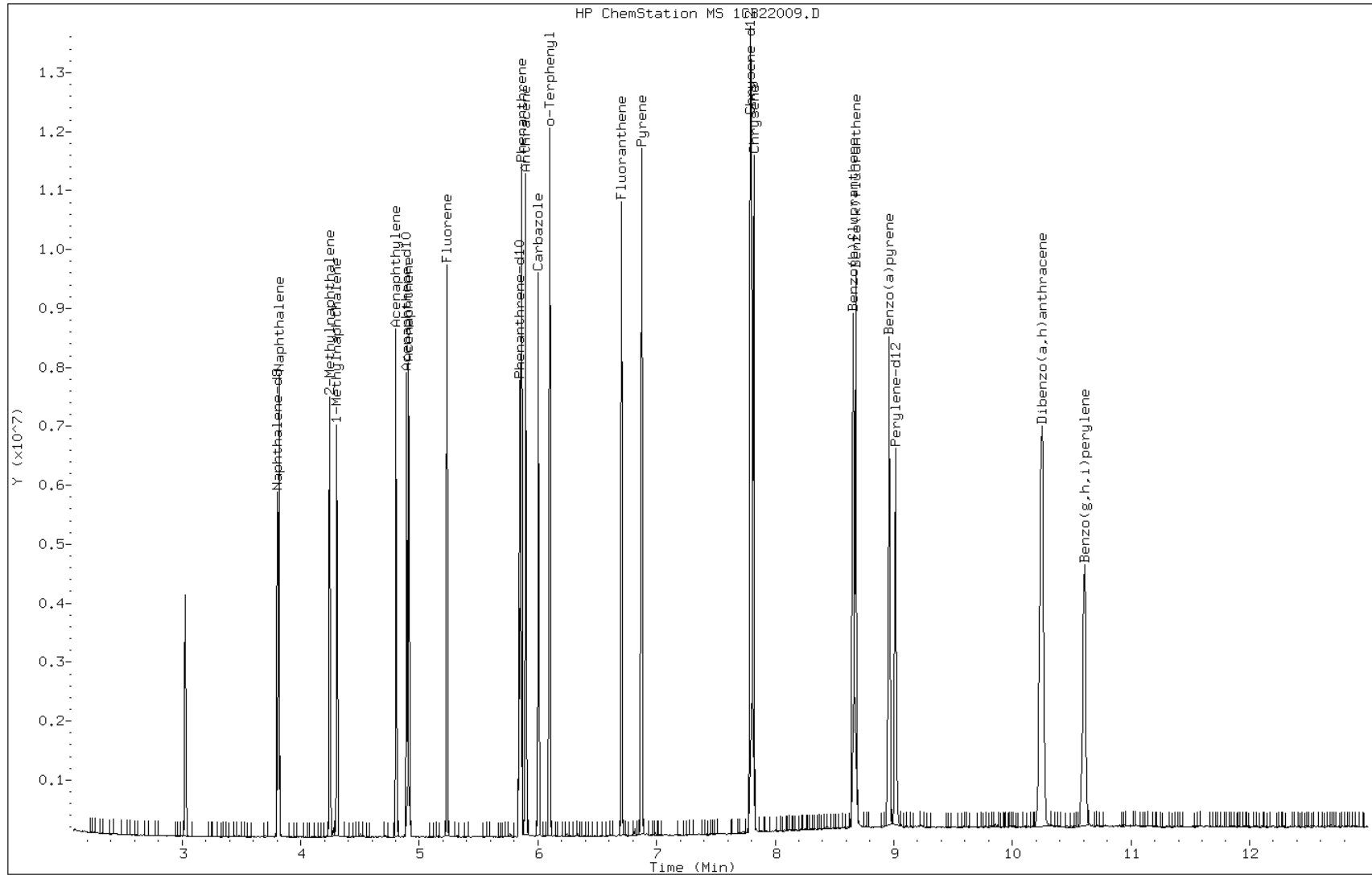
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

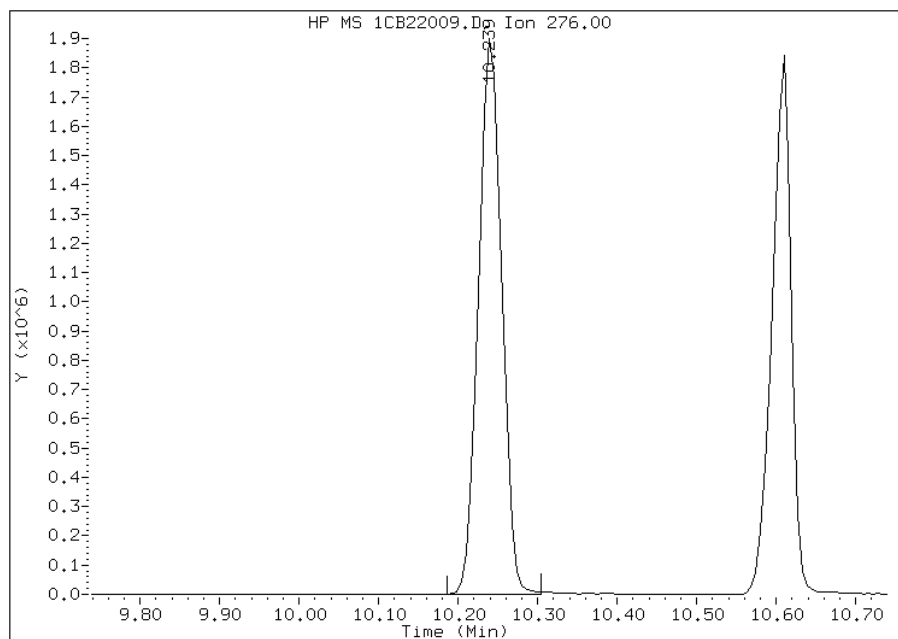


Manual Integration Report

Data File: 1CB22009.D
Inj. Date and Time: 22-FEB-2013 13:48
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

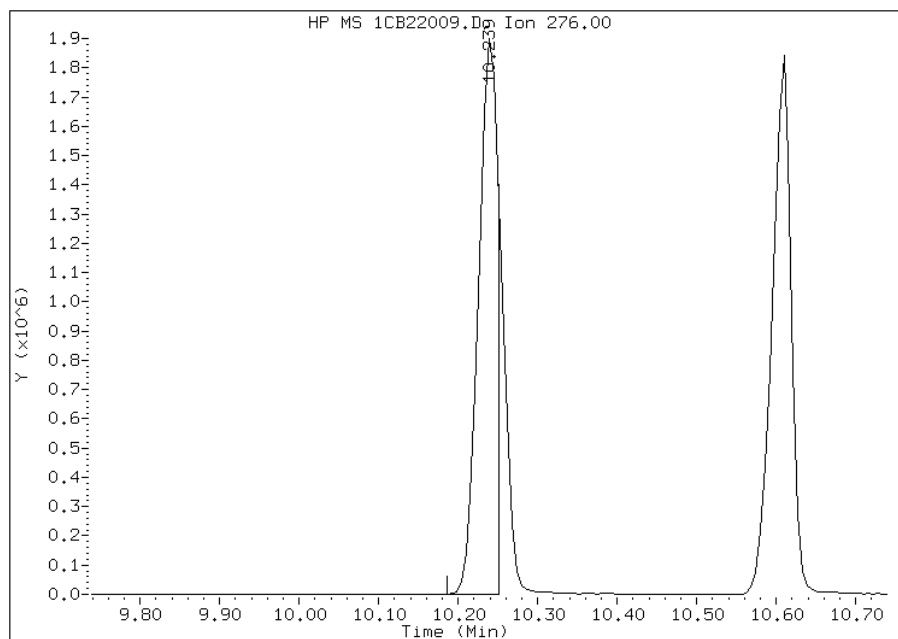
Processing Integration Results

RT: 10.24
Response: 3825990
Amount: 51
Conc: 51



Manual Integration Results

RT: 10.24
Response: 3187834
Amount: 51
Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:15
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1 Analy Batch No.: 134781

SDG No.: 68088348-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Naphthalene	1.1280 1.0523	1.0553 1.0405	1.0642	1.0918	1.0581	Ave		1.0700			0.0000	2.8	15.0				
2-Methylnaphthalene	0.7034 0.6669	0.6712 0.6728	0.6797	0.7002	0.6770	Ave		0.6816			0.0000	2.1	15.0				
1-Methylnaphthalene	0.6099 0.6325	0.6631 0.6258	0.6460	0.6514	0.6392	Ave		0.6383			0.0000	2.7	15.0				
Acenaphthylene	1.6661 1.7814	1.7639 1.7689	1.7448	1.8238	1.7955	Ave		1.7635			0.0000	2.8	15.0				
Acenaphthene	1.1402 1.0526	1.0845 1.0396	1.0477	1.1072	1.0550	Ave		1.0753			0.0000	3.5	15.0				
Fluorene	1.2209 1.2661	1.2731 1.2520	1.2478	1.2756	1.2585	Ave		1.2563			0.0000	1.5	15.0				
Phenanthrene	1.2165 1.1039	1.1314 1.0752	1.1449	1.1623	1.1141	Ave		1.1355			0.0000	4.0	15.0				
Anthracene	1.1088 1.1419	1.0967 1.1309	1.1548	1.1738	1.1455	Ave		1.1361			0.0000	2.3	15.0				
Carbazole	0.9989 1.0251	0.9725 1.0106	1.0326	1.0515	1.0179	Ave		1.0156			0.0000	2.5	15.0				
Fluoranthene	1.2255 1.1884	1.1239 1.1523	1.1976	1.2199	1.1869	Ave		1.1849			0.0000	3.0	15.0				
Pyrene	1.1729 1.2433	1.2578 1.2072	1.2525	1.2954	1.2562	Ave		1.2408			0.0000	3.2	15.0				
Benzo[a]anthracene	1.6058 1.1034	1.1616 1.0898	1.1024	1.1235	1.1016	LinF		1.0951			0.0000			0.9999		0.9900	
Chrysene	1.1781 1.1047	1.1583 1.0841	1.1177	1.1544	1.1168	Ave		1.1306			0.0000	3.0	15.0				
Benzo[b]fluoranthene	0.9830 1.0461	1.0325 1.0528	1.0066	1.0593	1.0269	Ave		1.0296			0.0000	2.6	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.: 680-88348-1 Analy Batch No.: 134781
 SDG No.: 68088348-1
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N
 Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Benzo[k]fluoranthene	1.0760 1.0603	1.0460 1.0472	1.1052	1.1212	1.0903	Ave		1.0780			0.0000	2.7	15.0				
Benzo[a]pyrene	0.9398 1.0484	0.9776 1.0366	1.0344	1.0539	1.0414	Ave		1.0189			0.0000	4.2	15.0				
Indeno[1,2,3-cd]pyrene	1.0120 1.1423	1.0104 1.1459	1.0416	1.1166	1.1424	Ave		1.0873			0.0000	5.8	15.0				
Dibenz(a,h)anthracene	0.9455 1.0206	0.9830 1.0192	1.0084	1.0295	1.0229	Ave		1.0042			0.0000	3.0	15.0				
Benzo[g,h,i]perylene	1.0182 1.0480	1.0153 1.0408	1.0329	1.0607	1.0410	Ave		1.0367			0.0000	1.6	15.0				
o-Terphenyl	0.6320 0.6161	0.6127 0.5977	0.6203	0.6323	0.6189	Ave		0.6186			0.0000	1.9	15.0				

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88348-1 Analy Batch No.: 134781

SDG No.: 68088348-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134781/3	1DB22003.D
Level 2	IC 660-134781/4	1DB22004.D
Level 3	IC 660-134781/5	1DB22005.D
Level 4	IC 660-134781/6	1DB22006.D
Level 5	ICIS 660-134781/7	1DB22007.D
Level 6	IC 660-134781/8	1DB22008.D
Level 7	IC 660-134781/9	1DB22009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	15953 2298963	74498 3699527	371017	777491	1508569	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	9948 1457082	47384 2392281	236964	498648	965225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8626 1381962	46812 2225072	225226	463905	911252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14047 2298195	75049 3717778	364710	773248	1512937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	9613 1357997	46142 2184846	218994	469400	889006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10293 1633465	54168 2631357	260823	540812	1060484	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16602 2324547	78922 3708574	386527	798454	1536701	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	15132 2404366	76501 3900989	389851	806411	1580088	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	13633 2158453	67837 3485796	348596	722383	1404089	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	16725 2502381	78399 3974777	404310	838075	1637186	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	16387 2630026	86802 4199944	429030	897242	1722041	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	22435 2334008	80159 3791270	377597	778182	1510209	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	16460 2336752	79936 3771462	382861	799570	1531008	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	14372 2331940	74603 3853307	359912	772745	1490545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	15732 2363523	75578 3832862	395166	817887	1582576	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.: 680-88348-1 Analy Batch No.: 134781

SDG No.: 68088348-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 02/22/2013 12:13 Calibration End Date: 02/22/2013 14:28 Calibration ID: 2761

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	13740 2336988	70635 3794269	369863	768774	1511646	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14796 2546397	73004 4194422	372428	814504	1658275	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13824 2275035	71027 3730665	360565	750999	1484721	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14886 2336152	73360 3809441	369321	773773	1511031	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	8625 1297334	42735 2061660	209410	434393	853642	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22003.D
 Lab Smp Id: IC-1512358
 Inj Date : 22-FEB-2013 12:13
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512358
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dfASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2828471	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1686180	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2729489	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	8625	0.20000	0.20
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2794246	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2924062	40.0000	
2 Naphthalene	128	6.201	6.201	(1.003)	15953	0.20000	0.21
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	9948	0.20000	0.21
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	8626	0.20000	0.19
5 Acenaphthylene	152	7.723	7.723	(0.983)	14047	0.20000	0.19
7 Acenaphthene	154	7.882	7.882	(1.003)	9613	0.20000	0.21
8 Fluorene	166	8.322	8.322	(1.059)	10293	0.20000	0.19
10 Phenanthrene	178	9.127	9.127	(1.001)	16602	0.20000	0.21
11 Anthracene	178	9.168	9.168	(1.006)	15132	0.20000	0.20
12 Carbazole	167	9.303	9.303	(1.021)	13633	0.20000	0.20
14 Fluoranthene	202	10.114	10.114	(1.110)	16725	0.20000	0.21
15 Pyrene	202	10.302	10.302	(0.899)	16387	0.20000	0.19
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	22435	0.20000	0.27
18 Chrysene	228	11.477	11.477	(1.002)	16460	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.764	12.764	(0.957)	14372	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.799	12.799	(0.960)	15732	0.20000	0.20
21 Benzo(a)pyrene	252	13.222	13.222	(0.992)	13740	0.20000	0.18
23 Indeno(1,2,3-cd)pyrene	276	14.932	14.932	(1.120)	14796	0.20000	0.19(H)
24 Dibenzo(a,h)anthracene	278	14.967	14.967	(1.122)	13824	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.379	15.379	(1.153)	14886	0.20000	0.20(MH)

QC Flag Legend

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

Data File: 1DB22003.D

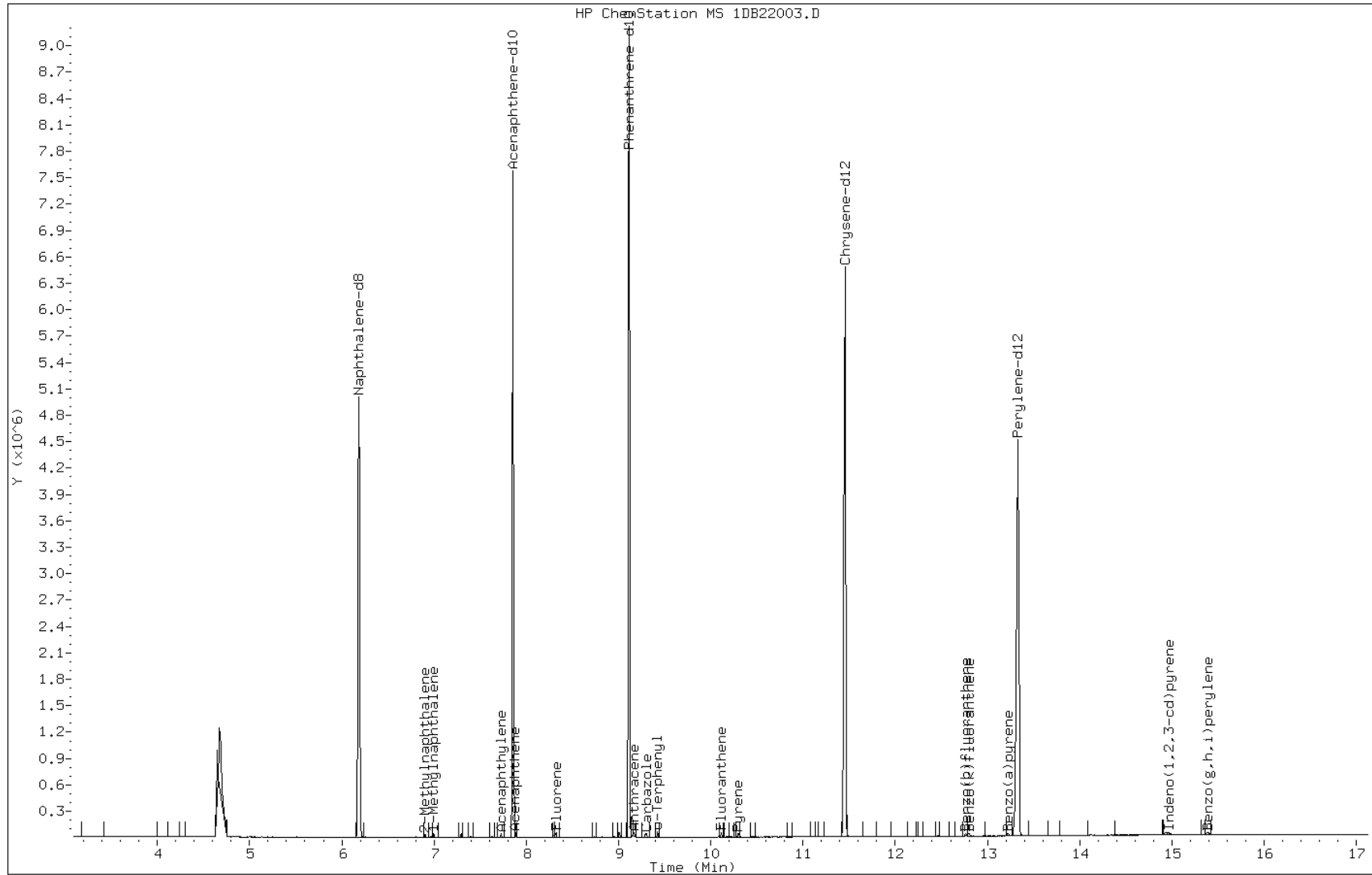
Date: 22-FEB-2013 12:13

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512358

Operator: SCC

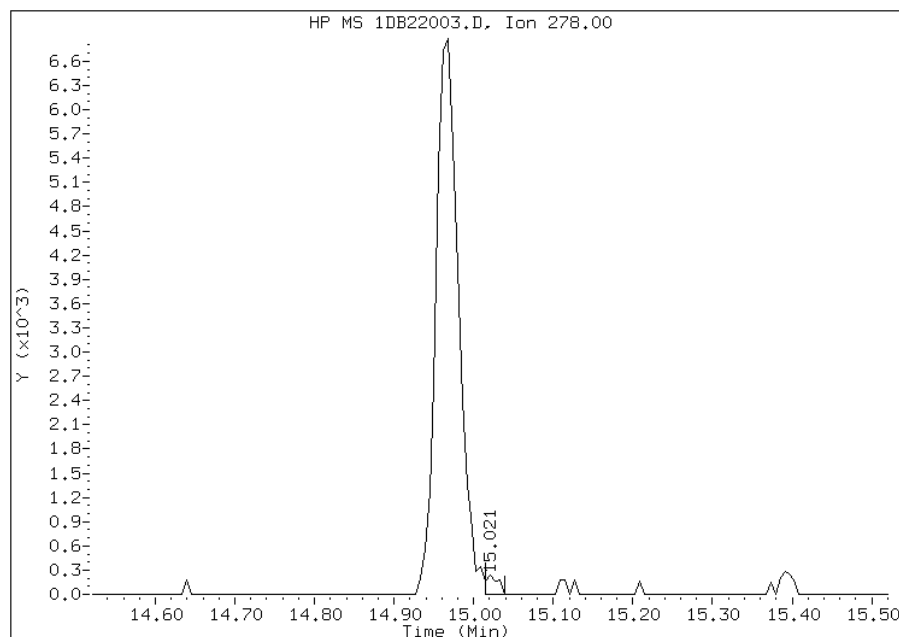


Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/22/2013

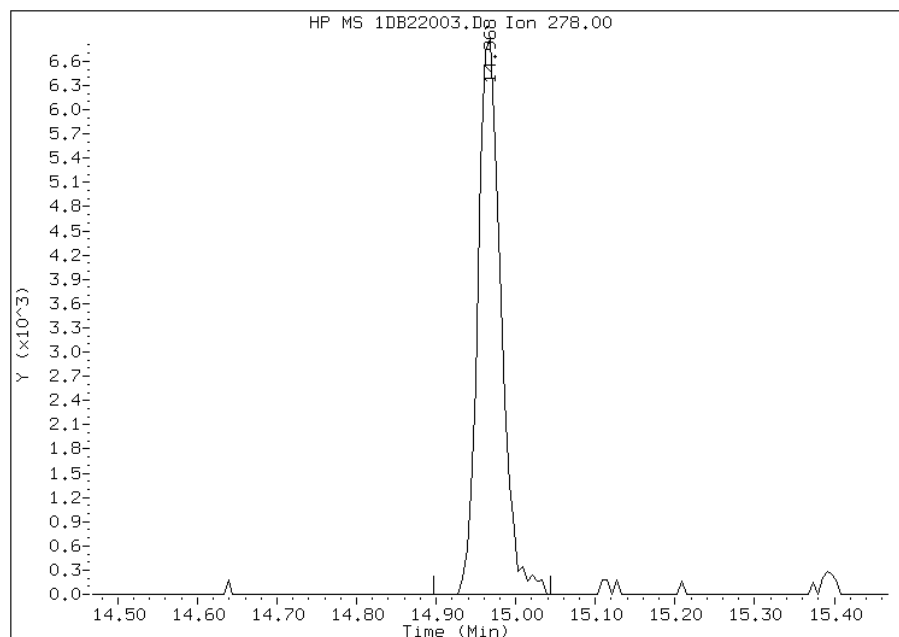
Processing Integration Results

RT: 15.02
Response: 262
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.97
Response: 13824
Amount: 0
Conc: 0



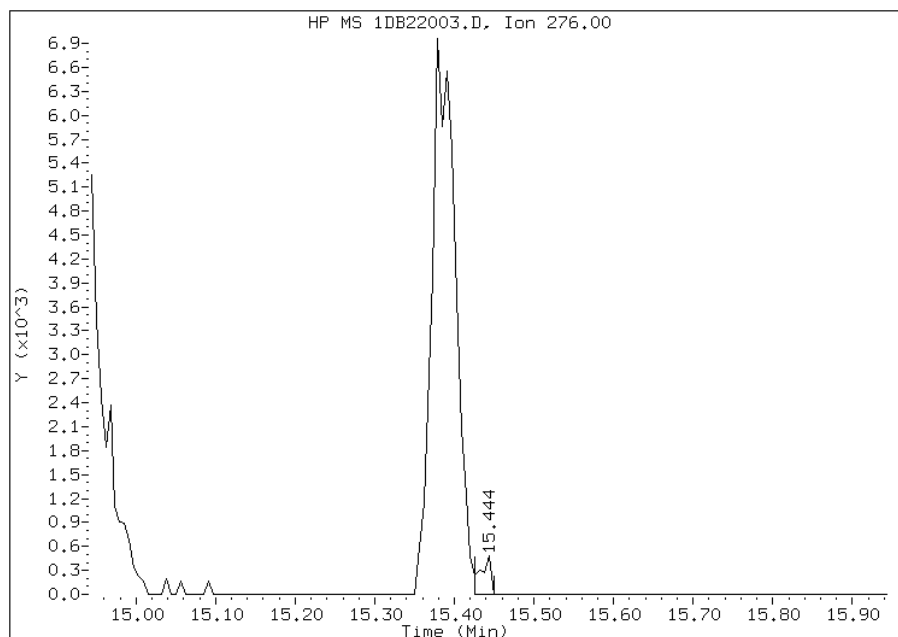
Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB22003.D
Inj. Date and Time: 22-FEB-2013 12:13
Instrument ID: BSMDS.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/22/2013

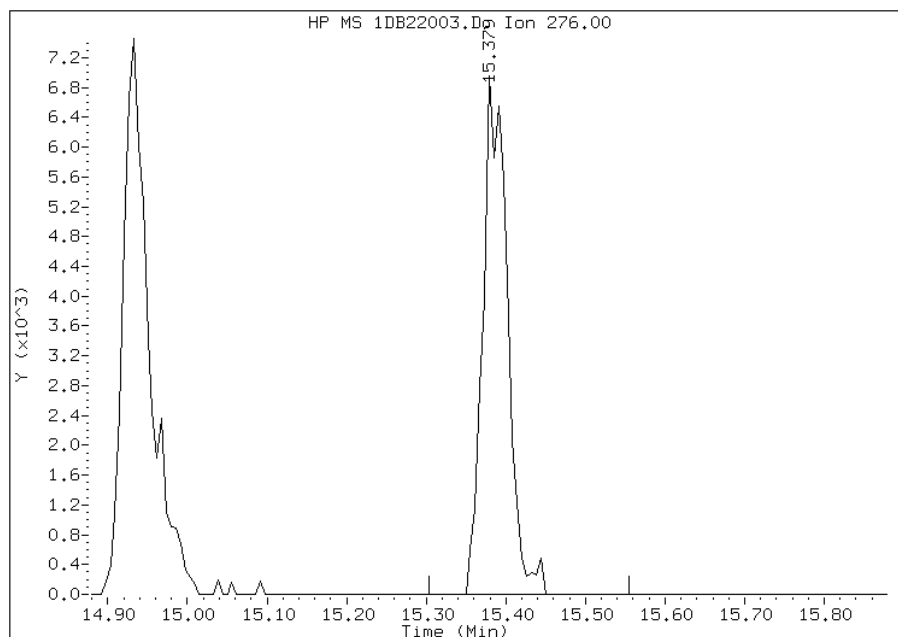
Processing Integration Results

RT: 15.44
Response: 456
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.38
Response: 14886
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:57
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22004.D
 Lab Smp Id: IC-1512359
 Inj Date : 22-FEB-2013 12:35
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512359
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:13 Cal File: 1DB22003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.186	6.186	(1.000)	2823768	40.0000	
* 6 Acenaphthene-d10	164	7.854	7.854	(1.000)	1701879	40.0000	
* 9 Phenanthrene-d10	188	9.112	9.112	(1.000)	2790130	40.0000	
\$ 13 o-Terphenyl	230	9.423	9.423	(1.034)	42735	1.00000	0.99
* 17 Chrysene-d12	240	11.456	11.456	(1.000)	2760384	40.0000	
* 22 Perylene-d12	264	13.330	13.330	(1.000)	2890207	40.0000	
2 Naphthalene	128	6.203	6.203	(1.003)	74498	1.00000	0.99
3 2-Methylnaphthalene	142	6.902	6.902	(1.116)	47384	1.00000	0.98
4 1-Methylnaphthalene	142	6.997	6.997	(1.131)	46812	1.00000	1.0
5 Acenaphthylene	152	7.725	7.725	(0.984)	75049	1.00000	1.0
7 Acenaphthene	154	7.878	7.878	(1.003)	46142	1.00000	1.0
8 Fluorene	166	8.318	8.318	(1.059)	54168	1.00000	1.0
10 Phenanthrene	178	9.129	9.129	(1.002)	78922	1.00000	1.00
11 Anthracene	178	9.170	9.170	(1.006)	76501	1.00000	0.96
12 Carbazole	167	9.306	9.306	(1.021)	67837	1.00000	0.96
14 Fluoranthene	202	10.111	10.111	(1.110)	78399	1.00000	0.95
15 Pyrene	202	10.299	10.299	(0.899)	86802	1.00000	1.0
16 Benzo(a)anthracene	228	11.432	11.432	(0.998)	80159	1.00000	0.98
18 Chrysene	228	11.474	11.474	(1.002)	79936	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.760	12.760	(0.957)	74603	1.00000	1.0
20 Benzo(k)fluoranthene	252	12.796	12.796	(0.960)	75578	1.00000	0.97
21 Benzo(a)pyrene	252	13.219	13.219	(0.992)	70635	1.00000	0.96
23 Indeno(1,2,3-cd)pyrene	276	14.934	14.934	(1.120)	73004	1.00000	0.93(M)
24 Dibenzo(a,h)anthracene	278	14.964	14.964	(1.123)	71027	1.00000	0.98(H)
25 Benzo(g,h,i)perylene	276	15.381	15.381	(1.154)	73360	1.00000	0.98(H)

QC Flag Legend

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

Data File: 1DB22004.D

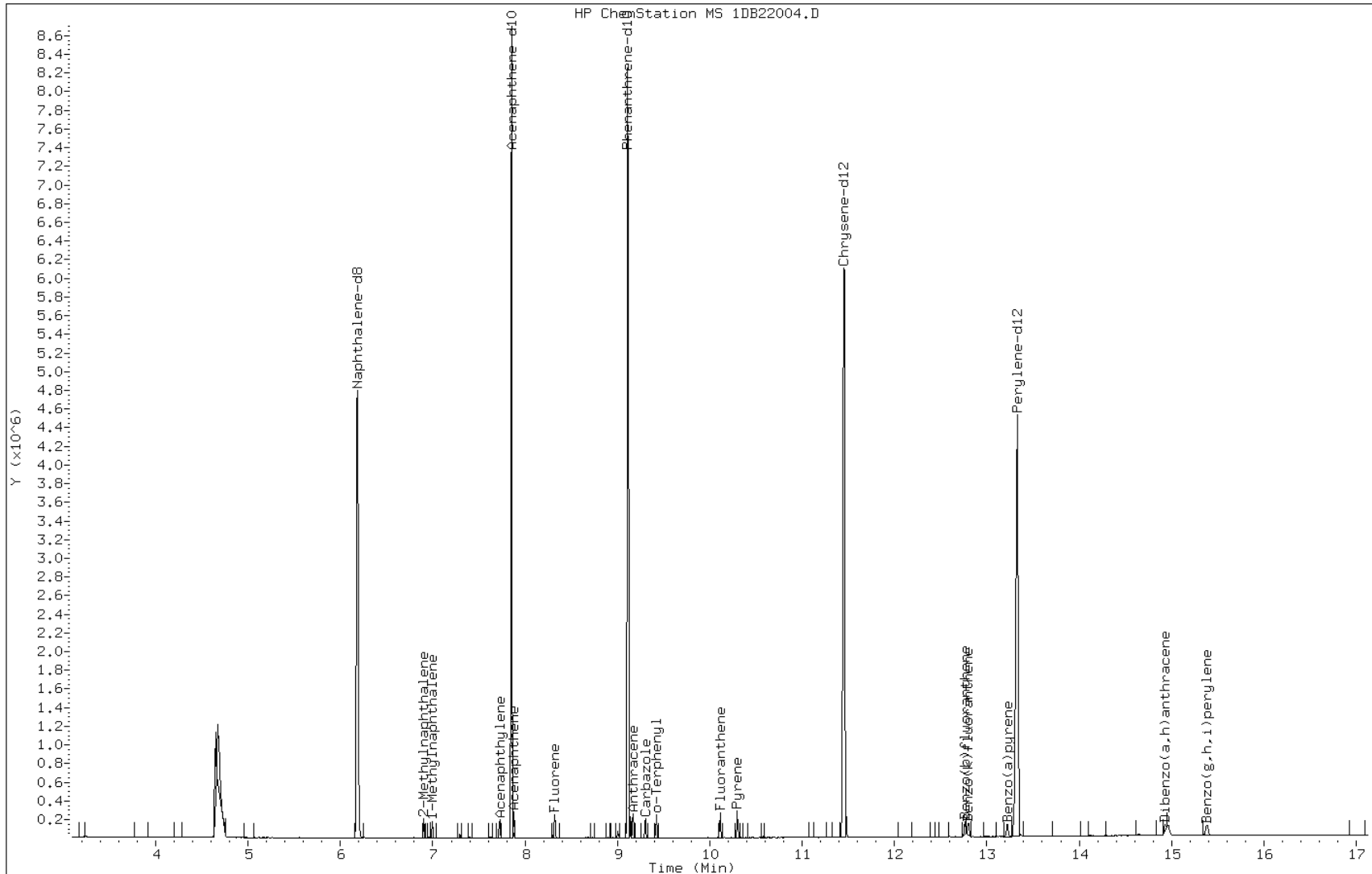
Date: 22-FEB-2013 12:35

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512359

Operator: SCC

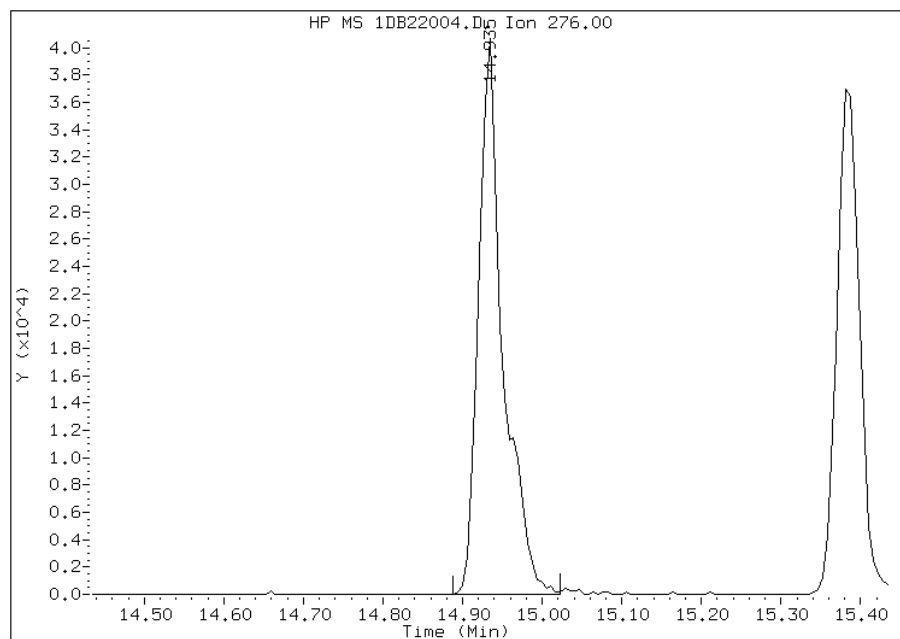


Manual Integration Report

Data File: 1DB22004.D
Inj. Date and Time: 22-FEB-2013 12:35
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

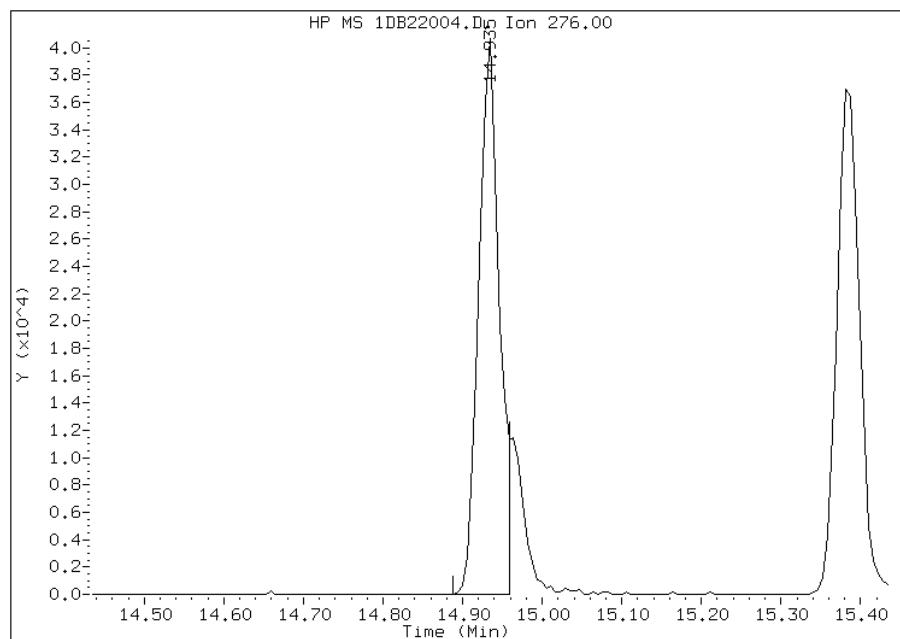
Processing Integration Results

RT: 14.93
Response: 86267
Amount: 1
Conc: 1



Manual Integration Results

RT: 14.93
Response: 73004
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22005.D
 Lab Smp Id: IC-1512360
 Inj Date : 22-FEB-2013 12:58
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512360
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:35 Cal File: 1DB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.184	6.184	(1.000)	2789095	40.0000	
* 6 Acenaphthene-d10	164	7.853	7.853	(1.000)	1672170	40.0000	
* 9 Phenanthrene-d10	188	9.116	9.116	(1.000)	2700824	40.0000	
\$ 13 o-Terphenyl	230	9.421	9.421	(1.034)	209410	5.00000	5.0
* 17 Chrysene-d12	240	11.454	11.454	(1.000)	2740282	40.0000	
* 22 Perylene-d12	264	13.334	13.334	(1.000)	2860502	40.0000	
2 Naphthalene	128	6.202	6.202	(1.003)	371017	5.00000	5.0
3 2-Methylnaphthalene	142	6.901	6.901	(1.116)	236964	5.00000	5.0
4 1-Methylnaphthalene	142	6.995	6.995	(1.131)	225226	5.00000	5.1
5 Acenaphthylene	152	7.723	7.723	(0.984)	364710	5.00000	4.9
7 Acenaphthene	154	7.876	7.876	(1.003)	218994	5.00000	4.9
8 Fluorene	166	8.323	8.323	(1.060)	260823	5.00000	5.0
10 Phenanthrene	178	9.134	9.134	(1.002)	386527	5.00000	5.0
11 Anthracene	178	9.169	9.169	(1.006)	389851	5.00000	5.1
12 Carbazole	167	9.304	9.304	(1.021)	348596	5.00000	5.1
14 Fluoranthene	202	10.115	10.115	(1.110)	404310	5.00000	5.0
15 Pyrene	202	10.303	10.303	(0.899)	429030	5.00000	5.0
16 Benzo(a)anthracene	228	11.437	11.437	(0.998)	377597	5.00000	4.6
18 Chrysene	228	11.478	11.478	(1.002)	382861	5.00000	4.9
19 Benzo(b)fluoranthene	252	12.765	12.765	(0.957)	359912	5.00000	4.9
20 Benzo(k)fluoranthene	252	12.806	12.806	(0.960)	395166	5.00000	5.1
21 Benzo(a)pyrene	252	13.229	13.229	(0.992)	369863	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	14.938	14.938	(1.120)	372428	5.00000	4.8(M)
24 Dibenzo(a,h)anthracene	278	14.974	14.974	(1.123)	360565	5.00000	5.0(H)
25 Benzo(g,h,i)perylene	276	15.391	15.391	(1.154)	369321	5.00000	5.0(H)

QC Flag Legend

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

Data File: 1DB22005.D

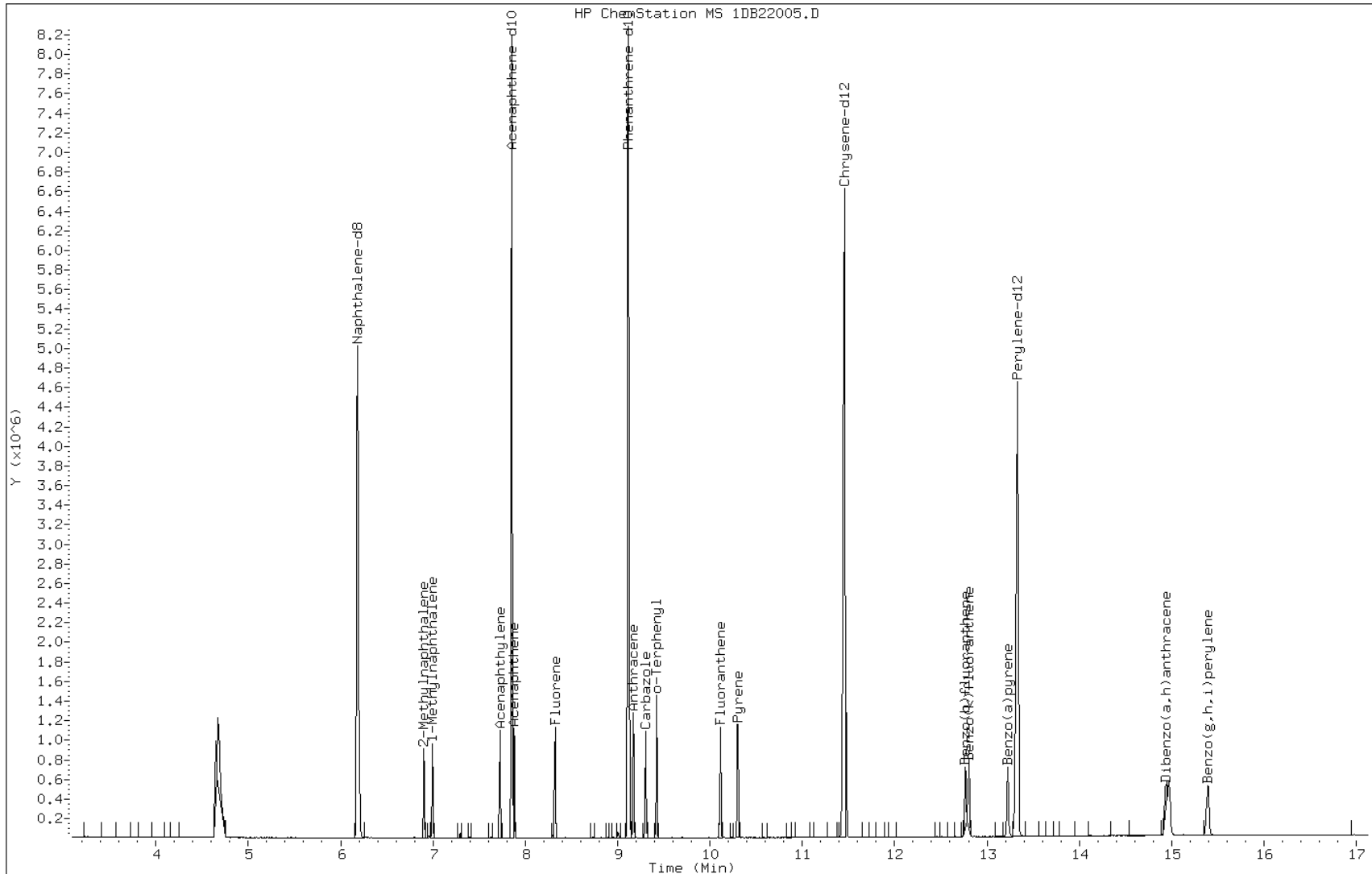
Date: 22-FEB-2013 12:58

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512360

Operator: SCC

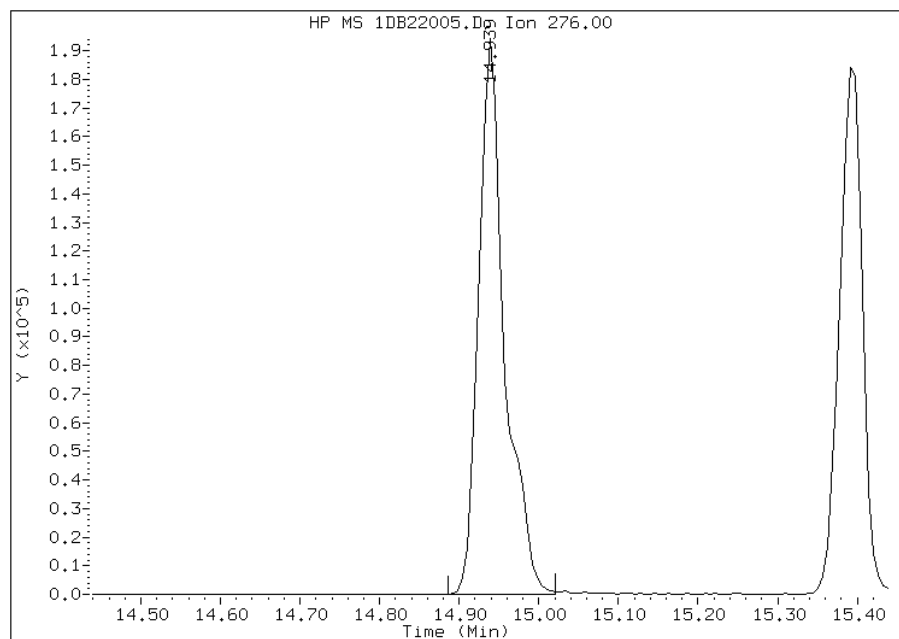


Manual Integration Report

Data File: 1DB22005.D
Inj. Date and Time: 22-FEB-2013 12:58
Instrument ID: BSM5D.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

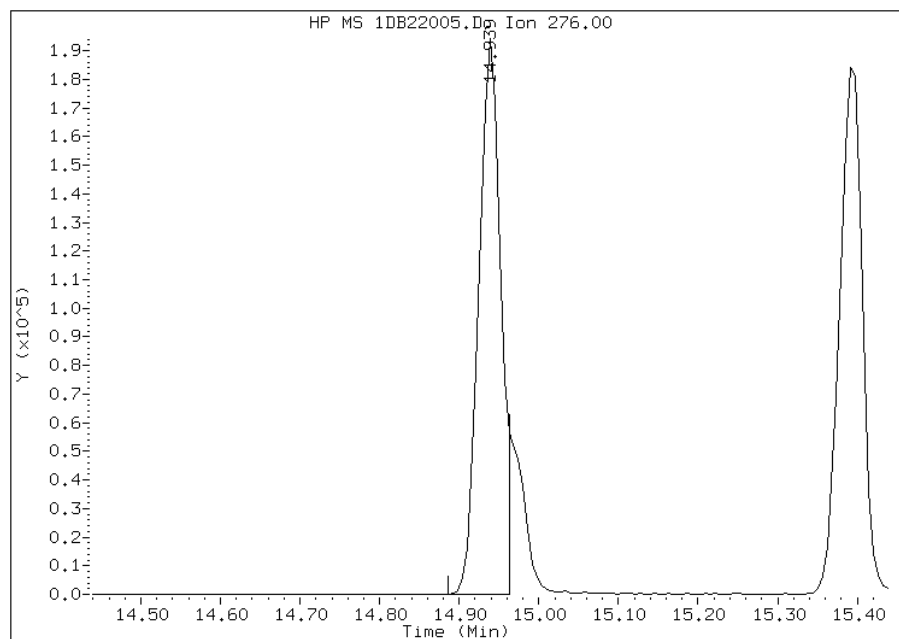
Processing Integration Results

RT: 14.94
Response: 437022
Amount: 5
Conc: 5



Manual Integration Results

RT: 14.94
Response: 372428
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:58
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22006.D
 Lab Smp Id: IC-1512361
 Inj Date : 22-FEB-2013 13:21
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512361
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:58 Cal File: 1DB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2848559	40.0000	
* 6 Acenaphthene-d10	164	7.858	7.858	(1.000)	1695869	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2747931	40.0000	
\$ 13 o-Terphenyl	230	9.420	9.420	(1.034)	434393	10.0000	10
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2770572	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2917915	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	777491	10.0000	10
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	498648	10.0000	10
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	463905	10.0000	10
5 Acenaphthylene	152	7.728	7.728	(0.984)	773248	10.0000	10
7 Acenaphthene	154	7.881	7.881	(1.003)	469400	10.0000	10
8 Fluorene	166	8.322	8.322	(1.059)	540812	10.0000	10
10 Phenanthrene	178	9.132	9.132	(1.002)	798454	10.0000	10
11 Anthracene	178	9.174	9.174	(1.006)	806411	10.0000	10
12 Carbazole	167	9.309	9.309	(1.021)	722383	10.0000	10
14 Fluoranthene	202	10.114	10.114	(1.110)	838075	10.0000	10
15 Pyrene	202	10.302	10.302	(0.899)	897242	10.0000	10
16 Benzo(a)anthracene	228	11.436	11.436	(0.998)	778182	10.0000	9.5
18 Chrysene	228	11.477	11.477	(1.002)	799570	10.0000	10
19 Benzo(b)fluoranthene	252	12.769	12.769	(0.958)	772745	10.0000	10
20 Benzo(k)fluoranthene	252	12.811	12.811	(0.961)	817887	10.0000	10
21 Benzo(a)pyrene	252	13.228	13.228	(0.992)	768774	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	14.943	14.943	(1.121)	814504	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	14.979	14.979	(1.123)	750999	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.407	15.407	(1.156)	773773	10.0000	10(H)

QC Flag Legend

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

Data File: 1DB22006.D

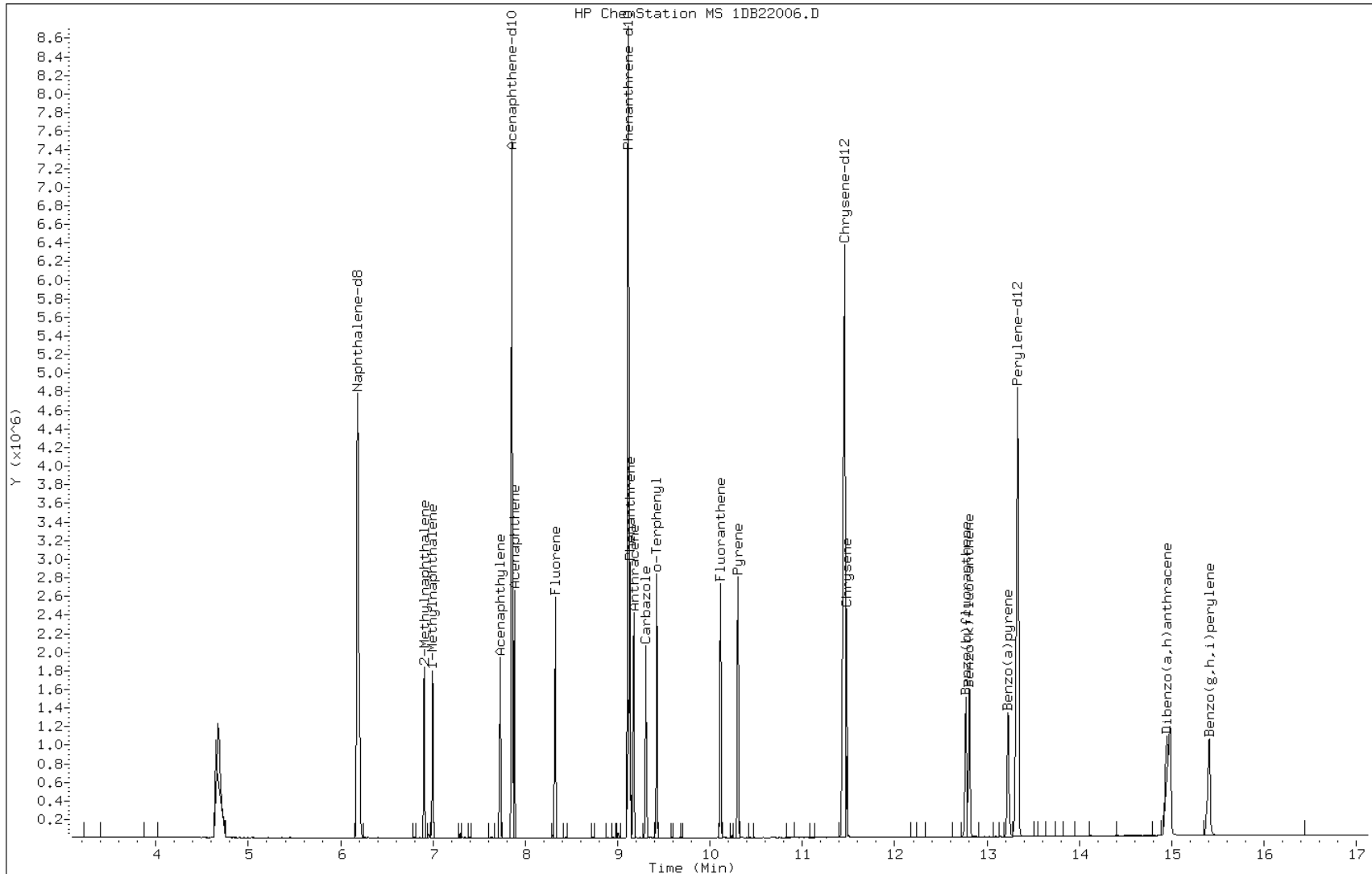
Date: 22-FEB-2013 13:21

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512361

Operator: SCC

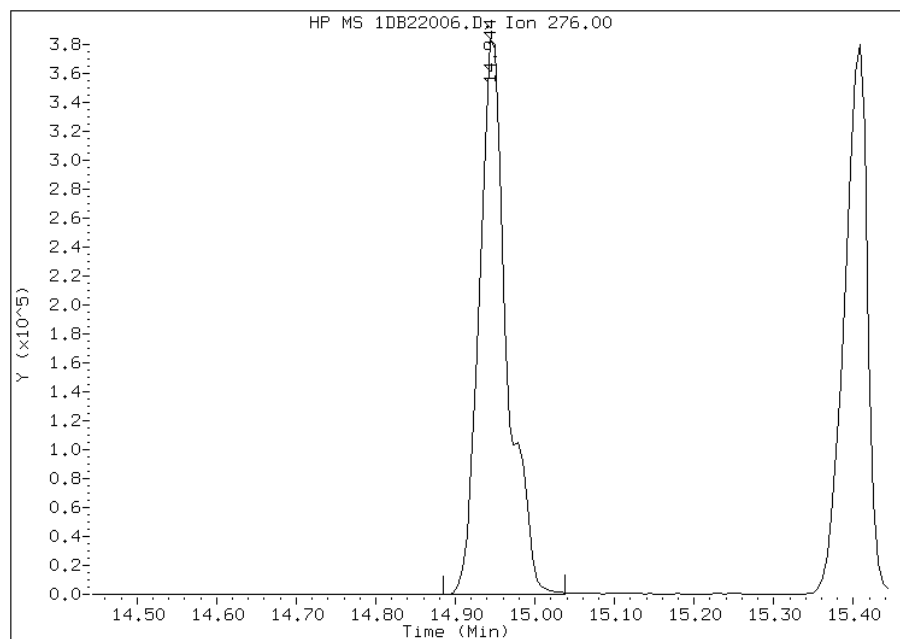


Manual Integration Report

Data File: 1DB22006.D
Inj. Date and Time: 22-FEB-2013 13:21
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

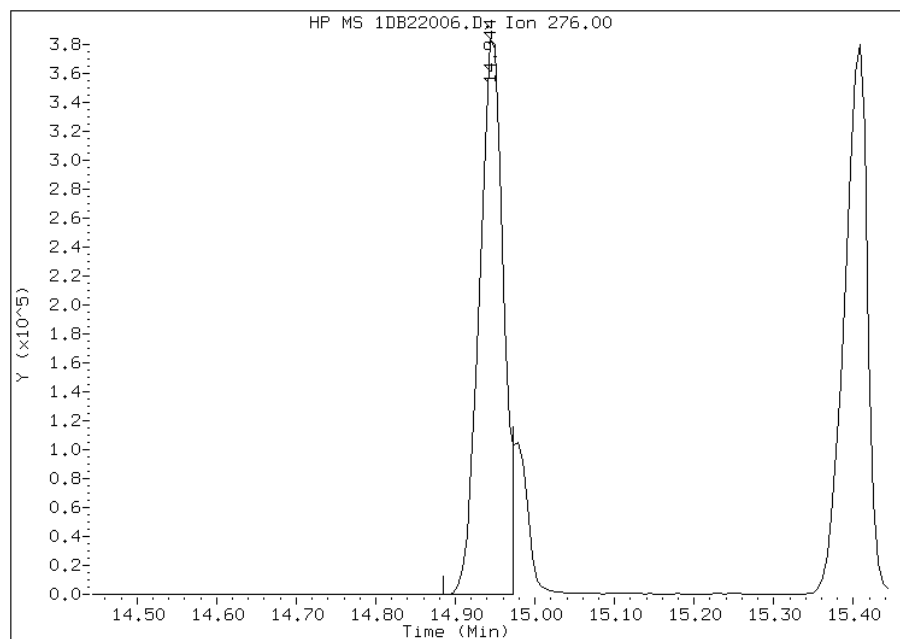
Processing Integration Results

RT: 14.94
Response: 923395
Amount: 11
Conc: 11



Manual Integration Results

RT: 14.94
Response: 814504
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:59
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\1DB22007.D
 Lab Smp Id: ICIS-1512372
 Inj Date : 22-FEB-2013 13:43
 Operator : SCC
 Smp Info : ICIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:21 Cal File: 1DB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2851402	40.0000	
* 6 Acenaphthene-d10	164	7.857	7.857	(1.000)	1685266	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2758746	40.0000	
\$ 13 o-Terphenyl	230	9.426	9.426	(1.034)	853642	20.0000	20
* 17 Chrysene-d12	240	11.459	11.459	(1.000)	2741766	40.0000	
* 22 Perylene-d12	264	13.333	13.333	(1.000)	2903096	40.0000	
2 Naphthalene	128	6.206	6.206	(1.004)	1508569	20.0000	20
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	965225	20.0000	20
4 1-Methylnaphthalene	142	6.994	6.994	(1.131)	911252	20.0000	20
5 Acenaphthylene	152	7.728	7.728	(0.984)	1512937	20.0000	20
7 Acenaphthene	154	7.881	7.881	(1.003)	889006	20.0000	20
8 Fluorene	166	8.321	8.321	(1.059)	1060484	20.0000	20
10 Phenanthrene	178	9.132	9.132	(1.002)	1536701	20.0000	20
11 Anthracene	178	9.173	9.173	(1.006)	1580088	20.0000	20
12 Carbazole	167	9.309	9.309	(1.021)	1404089	20.0000	20
14 Fluoranthene	202	10.114	10.114	(1.110)	1637186	20.0000	20
15 Pyrene	202	10.302	10.302	(0.899)	1722041	20.0000	20
16 Benzo(a)anthracene	228	11.435	11.435	(0.998)	1510209	20.0000	19
18 Chrysene	228	11.482	11.482	(1.002)	1531008	20.0000	20
19 Benzo(b)fluoranthene	252	12.775	12.775	(0.958)	1490545	20.0000	20
20 Benzo(k)fluoranthene	252	12.816	12.816	(0.961)	1582576	20.0000	20
21 Benzo(a)pyrene	252	13.239	13.239	(0.993)	1511646	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.961	(1.122)	1658275	20.0000	21
24 Dibenzo(a,h)anthracene	278	14.996	14.996	(1.125)	1484721	20.0000	20
25 Benzo(g,h,i)perylene	276	15.425	15.425	(1.157)	1511031	20.0000	20

Data File: 1DB22007.D

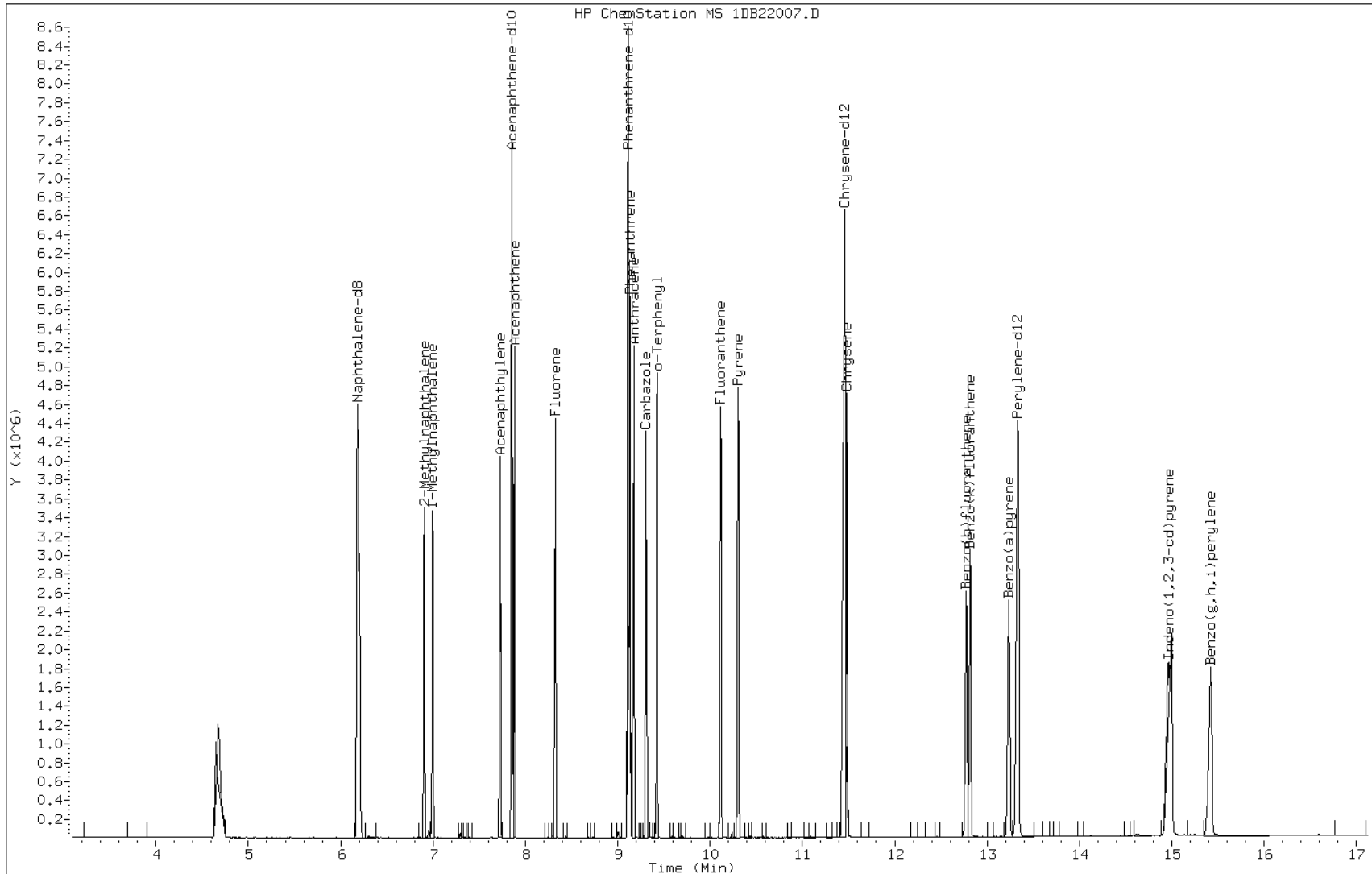
Date: 22-FEB-2013 13:43

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS-1512372

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22008.D
 Lab Smp Id: IC-1512373
 Inj Date : 22-FEB-2013 14:06
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512373
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:43 Cal File: 1DB22007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.183	6.183	(1.000)	2913003	40.0000	
* 6 Acenaphthene-d10	164	7.852	7.852	(1.000)	1720184	40.0000	
* 9 Phenanthrene-d10	188	9.115	9.115	(1.000)	2807552	40.0000	
\$ 13 o-Terphenyl	230	9.427	9.427	(1.034)	1297334	30.0000	30
* 17 Chrysene-d12	240	11.460	11.460	(1.000)	2820426	40.0000	
* 22 Perylene-d12	264	13.340	13.340	(1.000)	2972128	40.0000	
2 Naphthalene	128	6.207	6.207	(1.004)	2298963	30.0000	30
3 2-Methylnaphthalene	142	6.906	6.906	(1.117)	1457082	30.0000	29
4 1-Methylnaphthalene	142	7.000	7.000	(1.132)	1381962	30.0000	30
5 Acenaphthylene	152	7.729	7.729	(0.984)	2298195	30.0000	30
7 Acenaphthene	154	7.881	7.881	(1.004)	1357997	30.0000	29
8 Fluorene	166	8.328	8.328	(1.061)	1633465	30.0000	30
10 Phenanthrene	178	9.133	9.133	(1.002)	2324547	30.0000	29
11 Anthracene	178	9.174	9.174	(1.006)	2404366	30.0000	30
12 Carbazole	167	9.309	9.309	(1.021)	2158453	30.0000	30
14 Fluoranthene	202	10.120	10.120	(1.110)	2502381	30.0000	30
15 Pyrene	202	10.308	10.308	(0.900)	2630026	30.0000	30
16 Benzo(a)anthracene	228	11.442	11.442	(0.998)	2334008	30.0000	28
18 Chrysene	228	11.489	11.489	(1.003)	2336752	30.0000	29
19 Benzo(b)fluoranthene	252	12.781	12.781	(0.958)	2331940	30.0000	30
20 Benzo(k)fluoranthene	252	12.828	12.828	(0.962)	2363523	30.0000	30
21 Benzo(a)pyrene	252	13.246	13.246	(0.993)	2336988	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	14.973	14.973	(1.122)	2546397	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.008	15.008	(1.125)	2275035	30.0000	30(H)
25 Benzo(g,h,i)perylene	276	15.443	15.443	(1.158)	2336152	30.0000	30(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DB22008.D

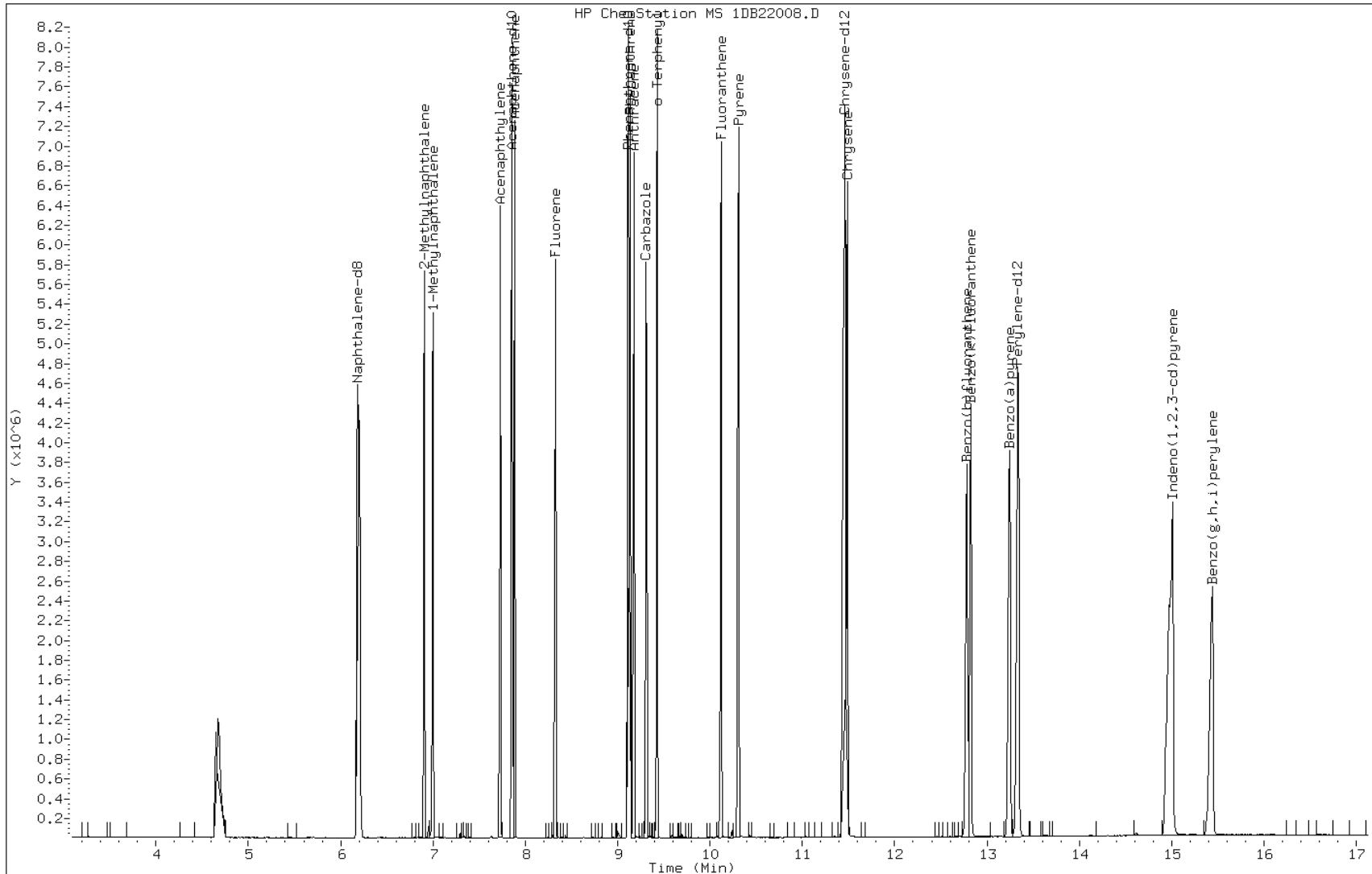
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512373

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22009.D
 Lab Smp Id: IC-1512374
 Inj Date : 22-FEB-2013 14:28
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC-1512374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:01 BSMSD.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:06 Cal File: 1DB22008.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					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.187	6.187	(1.000)	2844424	40.0000	
* 6 Acenaphthene-d10	164	7.856	7.856	(1.000)	1681359	40.0000	
* 9 Phenanthrene-d10	188	9.113	9.113	(1.000)	2759479	40.0000	
\$ 13 o-Terphenyl	230	9.430	9.430	(1.035)	2061660	50.0000	48
* 17 Chrysene-d12	240	11.463	11.463	(1.000)	2783202	40.0000	
* 22 Perylene-d12	264	13.344	13.344	(1.000)	2928183	40.0000	
2 Naphthalene	128	6.205	6.205	(1.003)	3699527	50.0000	49
3 2-Methylnaphthalene	142	6.910	6.910	(1.117)	2392281	50.0000	49
4 1-Methylnaphthalene	142	6.998	6.998	(1.131)	2225072	50.0000	49
5 Acenaphthylene	152	7.732	7.732	(0.984)	3717778	50.0000	50(A)
7 Acenaphthene	154	7.885	7.885	(1.004)	2184846	50.0000	48
8 Fluorene	166	8.326	8.326	(1.060)	2631357	50.0000	50
10 Phenanthrene	178	9.137	9.137	(1.003)	3708574	50.0000	47
11 Anthracene	178	9.184	9.184	(1.008)	3900989	50.0000	50
12 Carbazole	167	9.313	9.313	(1.022)	3485796	50.0000	50
14 Fluoranthene	202	10.124	10.124	(1.111)	3974777	50.0000	49
15 Pyrene	202	10.312	10.312	(0.900)	4199944	50.0000	49
16 Benzo(a)anthracene	228	11.446	11.446	(0.998)	3791270	50.0000	46
18 Chrysene	228	11.499	11.499	(1.003)	3771462	50.0000	48
19 Benzo(b)fluoranthene	252	12.791	12.791	(0.959)	3853307	50.0000	51(A)
20 Benzo(k)fluoranthene	252	12.838	12.838	(0.962)	3832862	50.0000	48
21 Benzo(a)pyrene	252	13.261	13.261	(0.994)	3794269	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	14.995	14.995	(1.124)	4194422	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.030	15.030	(1.126)	3730665	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.465	15.465	(1.159)	3809441	50.0000	50(AH)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1DB22009.D

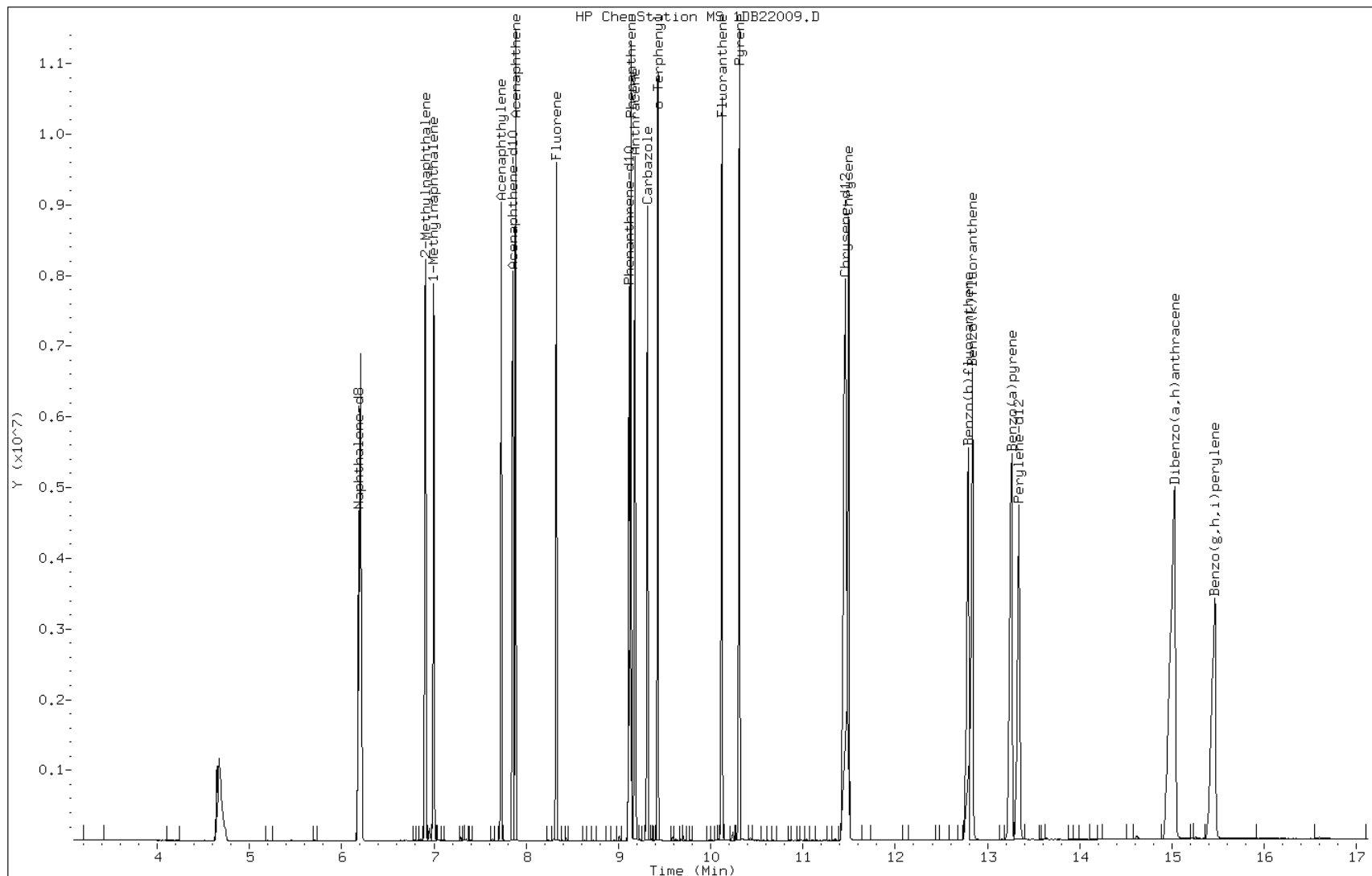
Date: 22-FEB-2013 14:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1512374

Operator: SCC

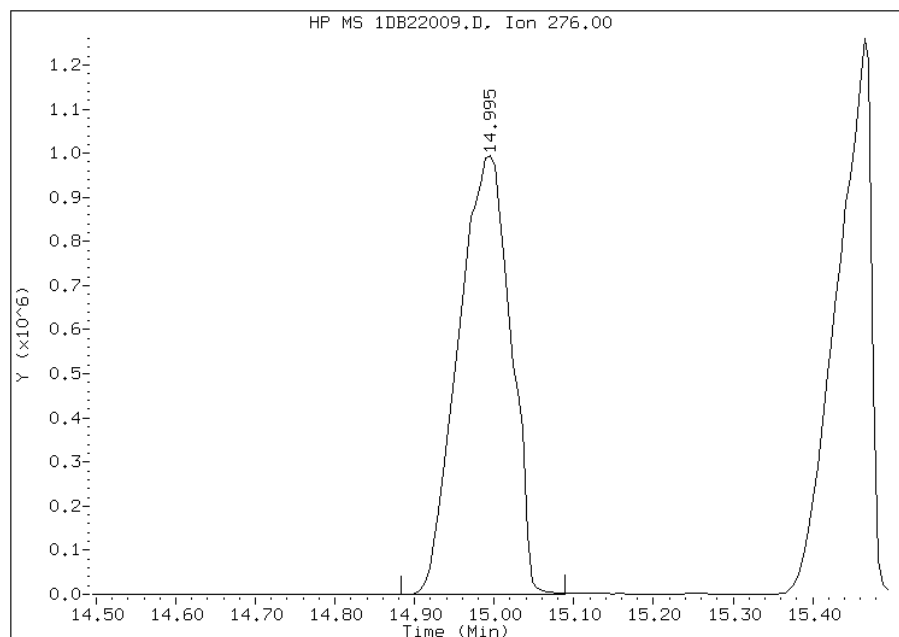


Manual Integration Report

Data File: 1DB22009.D
Inj. Date and Time: 22-FEB-2013 14:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

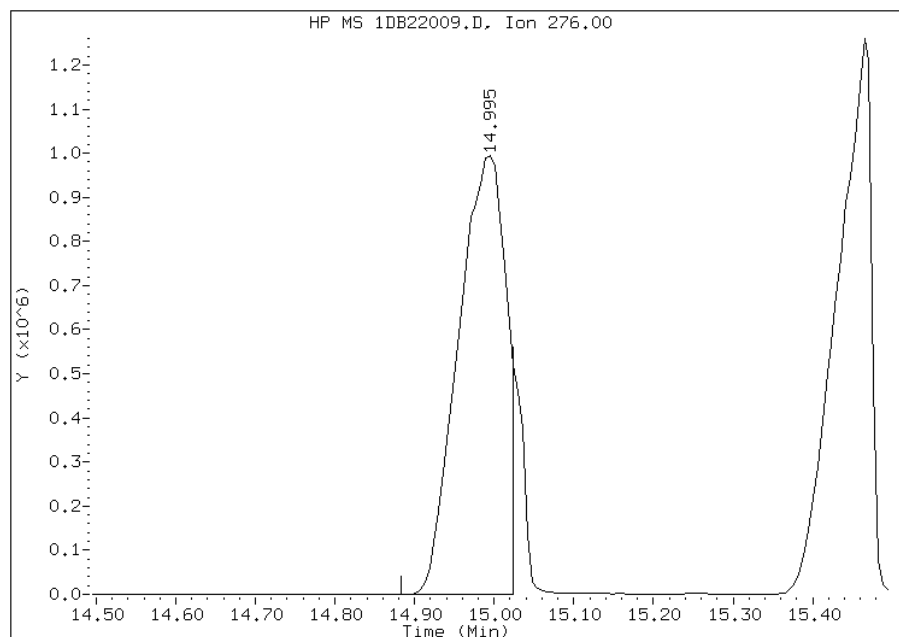
Processing Integration Results

RT: 15.00
Response: 4559640
Amount: 57
Conc: 57



Manual Integration Results

RT: 15.00
Response: 4194422
Amount: 53
Conc: 53



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:00
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	0.9304	0.0000	17900	20000	-10.7	35.0
2-Methylnaphthalene	Ave	0.6946	0.6168	0.0000	17800	20000	-11.2	35.0
1-Methylnaphthalene	Ave	0.6326	0.5884	0.0000	18600	20000	-7.0	35.0
Acenaphthylene	Ave	1.613	1.474	0.0000	18300	20000	-8.6	35.0
Acenaphthene	Ave	1.002	0.9523	0.0000	19000	20000	-5.0	35.0
Fluorene	Ave	1.268	1.140	0.0000	18000	20000	-10.1	35.0
Phenanthrene	Ave	1.157	0.9494	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.131	0.9716	0.0000	17200	20000	-14.1	35.0
Carbazole	Ave	1.006	0.8745	0.0000	17400	20000	-13.0	35.0
Fluoranthene	Ave	1.267	1.118	0.0000	17700	20000	-11.7	35.0
Pyrene	Ave	1.075	0.8809	0.0000	16400	20000	-18.1	35.0
Benzo[a]anthracene	Ave	1.154	0.9788	0.0000	17000	20000	-15.2	35.0
Chrysene	Ave	1.155	0.9170	0.0000	15900	20000	-20.6	35.0
Benzo[b]fluoranthene	Ave	1.045	0.9777	0.0000	18700	20000	-6.5	35.0
Benzo[k]fluoranthene	Ave	1.072	0.8826	0.0000	16500	20000	-17.7	35.0
Benzo[a]pyrene	Ave	1.015	0.7948	0.0000	15700	20000	-21.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.8384	0.0000	17600	20000	-12.2	35.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8876	0.0000	19000	20000	-5.0	35.0
Benzo[g,h,i]perylene	Ave	0.999	0.8655	0.0000	17300	20000	-13.4	35.0
o-Terphenyl	Ave	0.6039	0.4936	0.0000	16300	20000	-18.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 22-FEB-2013 14:06
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		3.804	3.804	(1.000)	1383069	40.0000		
* 6 Acenaphthene-d10	164		4.892	4.892	(1.000)	1075067	40.0000		
* 10 Phenanthrene-d10	188		5.845	5.845	(1.000)	2141313	40.0000		
\$ 14 o-Terphenyl	230		6.098	6.098	(1.043)	528461	16.3458	16.3457	
* 18 Chrysene-d12	240		7.798	7.798	(1.000)	2766374	40.0000		
* 23 Perylene-d12	264		9.015	9.016	(1.000)	3034368	40.0000		
2 Naphthalene	128		3.816	3.816	(1.003)	643385	17.8686	17.8685	
3 2-Methylnaphthalene	142		4.245	4.245	(1.116)	426527	17.7587	17.7586	
4 1-Methylnaphthalene	142		4.304	4.304	(1.131)	406896	18.6013	18.6013	
5 Acenaphthylene	152		4.804	4.804	(0.982)	792099	18.2750	18.2749	
7 Acenaphthene	154		4.910	4.910	(1.004)	511893	19.0010	19.0010	
9 Fluorene	166		5.233	5.234	(1.070)	612561	17.9790	17.9790	
11 Phenanthrene	178		5.863	5.863	(1.003)	1016506	16.4172	16.4171	
12 Anthracene	178		5.898	5.898	(1.009)	1040221	17.1782	17.1781	
13 Carbazole	167		6.004	6.004	(1.027)	936321	17.3944	17.3943	
15 Fluoranthene	202		6.704	6.704	(1.147)	1196804	17.6502	17.6501	
16 Pyrene	202		6.874	6.875	(0.882)	1218381	16.3888	16.3887	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		7.792	7.792	(0.999)	1353867	16.9566	16.9566
19 Chrysene	228		7.815	7.822	(1.002)	1268380	15.8740	15.8740
20 Benzo(b)fluoranthene	252		8.656	8.657	(0.960)	1483299	18.7051	18.7050
21 Benzo(k)fluoranthene	252		8.680	8.680	(0.963)	1339047	16.4606	16.4605
22 Benzo(a)pyrene	252		8.956	8.963	(0.993)	1205817	15.6548	15.6547
24 Indeno(1,2,3-cd)pyrene	276		10.233	10.239	(1.135)	1271997	17.5546	17.5546(M)
25 Dibenzo(a,h)anthracene	278		10.250	10.257	(1.137)	1346652	19.0003	19.0002
26 Benzo(g,h,i)perylene	276		10.597	10.610	(1.175)	1313135	17.3240	17.3240

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB22010.D

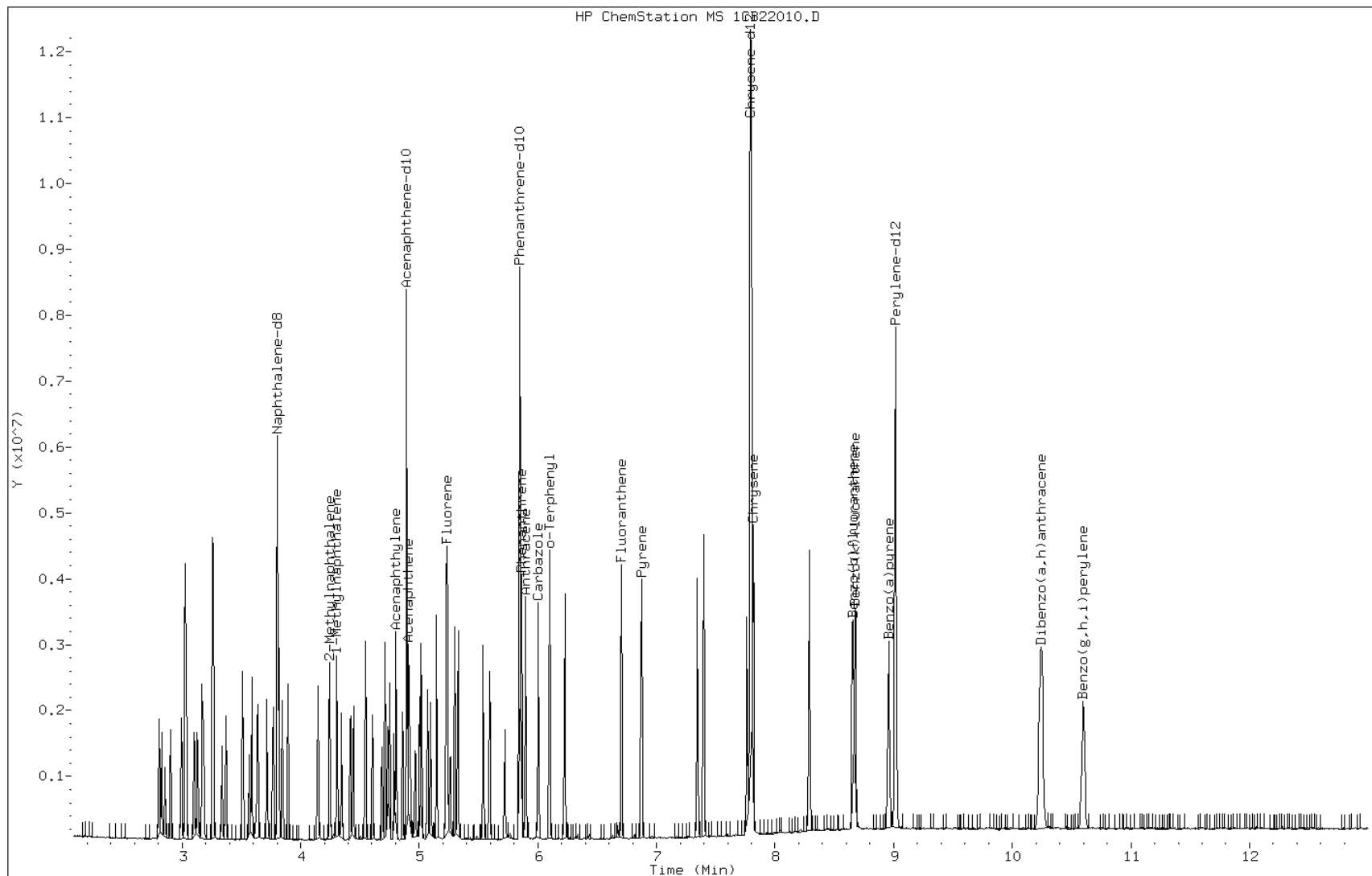
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

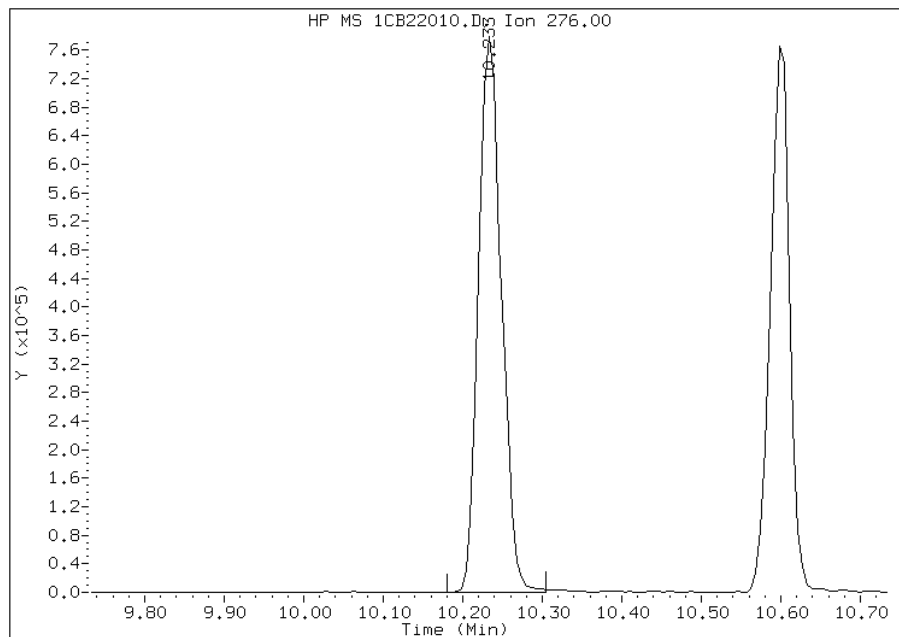


Manual Integration Report

Data File: 1CB22010.D
Inj. Date and Time: 22-FEB-2013 14:06
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

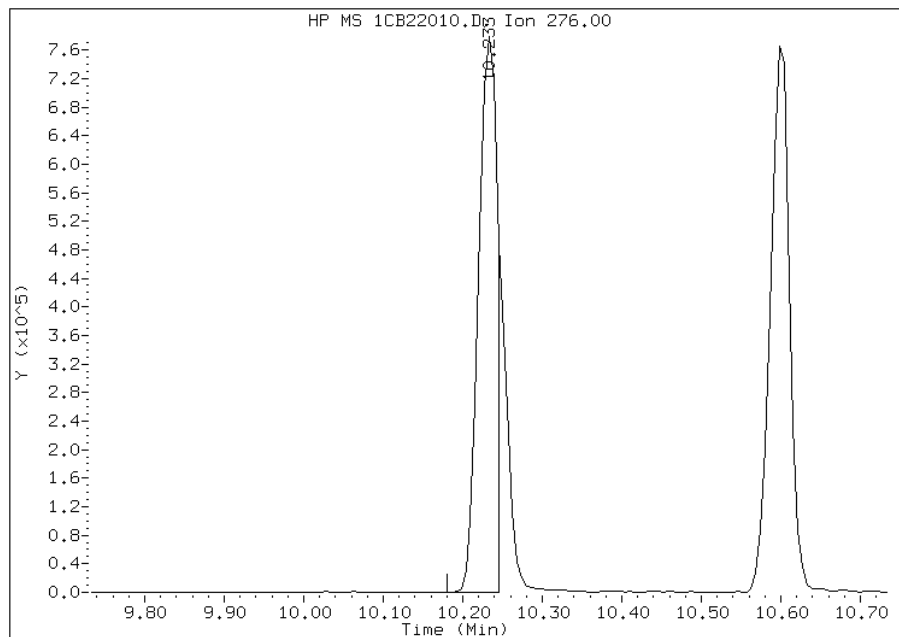
Processing Integration Results

RT: 10.23
Response: 1550656
Amount: 21
Conc: 21



Manual Integration Results

RT: 10.23
Response: 1271997
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab Sample ID: CCVIS 660-135643/4 Calibration Date: 03/21/2013 11:50
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CC21004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.042	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6946	0.7138	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6326	0.6683	0.0000	21100	20000	5.6	20.0
Acenaphthylene	Ave	1.613	1.622	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	1.002	0.9767	0.0000	19500	20000	-2.6	20.0
Fluorene	Ave	1.268	1.296	0.0000	20400	20000	2.2	20.0
Phenanthrene	Ave	1.157	1.140	0.0000	19700	20000	-1.4	20.0
Anthracene	Ave	1.131	1.132	0.0000	20000	20000	0.0	20.0
Carbazole	Ave	1.006	1.010	0.0000	20100	20000	0.4	20.0
Fluoranthene	Ave	1.267	1.270	0.0000	20000	20000	0.2	20.0
Pyrene	Ave	1.075	1.102	0.0000	20500	20000	2.5	20.0
Benzo[a]anthracene	Ave	1.154	1.054	0.0000	18300	20000	-8.7	20.0
Chrysene	Ave	1.155	1.041	0.0000	18000	20000	-9.9	20.0
Benzo[b]fluoranthene	Ave	1.045	1.007	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.072	1.124	0.0000	21000	20000	4.8	20.0
Benzo[a]pyrene	Ave	1.015	1.018	0.0000	20000	20000	0.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.999	0.0000	20900	20000	4.6	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8764	0.0000	18800	20000	-6.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9735	0.0000	19500	20000	-2.6	20.0
o-Terphenyl	Ave	0.6039	0.5978	0.0000	19800	20000	-1.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21004.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 21-MAR-2013 11:50
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.739	3.739	(1.000)	840044	40.0000	(H)
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	651490	40.0000	(H)
* 10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1219756	40.0000	(H)
\$ 14 o-Terphenyl	230	6.027	6.027	(1.044)	364578	20.0000	19.7965(H)
* 18 Chrysene-d12	240	7.715	7.715	(1.000)	1556594	40.0000	(H)
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1584646	40.0000	(H)
2 Naphthalene	128	3.751	3.751	(1.003)	437723	20.0000	20.0152(H)
3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	299817	20.0000	20.5524(H)
4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	280685	20.0000	21.1261(H)
5 Acenaphthylene	152	4.739	4.739	(0.982)	528374	20.0000	20.1162(H)
7 Acenaphthene	154	4.845	4.845	(1.004)	318158	20.0000	19.4880
9 Fluorene	166	5.162	5.162	(1.069)	422157	20.0000	20.4464(H)
11 Phenanthrene	178	5.792	5.792	(1.003)	695478	20.0000	19.7187(H)
12 Anthracene	178	5.821	5.821	(1.008)	690319	20.0000	20.0128(H)
13 Carbazole	167	5.933	5.933	(1.028)	615983	20.0000	20.0890(H)
15 Fluoranthene	202	6.627	6.627	(1.148)	774249	20.0000	20.0453(H)
16 Pyrene	202	6.792	6.792	(0.880)	857546	20.0000	20.5001(H)
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	819981	20.0000	18.2516(H)
19 Chrysene	228	7.733	7.733	(1.002)	810416	20.0000	18.0252(H)
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	798250	20.0000	19.2754(H)
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	890639	20.0000	20.9646(H)
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	806466	20.0000	20.0487(H)
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.132)	791649	20.0000	20.9206(MH)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.134)	694396	20.0000	18.7606(H)
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.171)	771294	20.0000	19.4847(H)

QC Flag Legend

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

Data File: 1CC21004.D

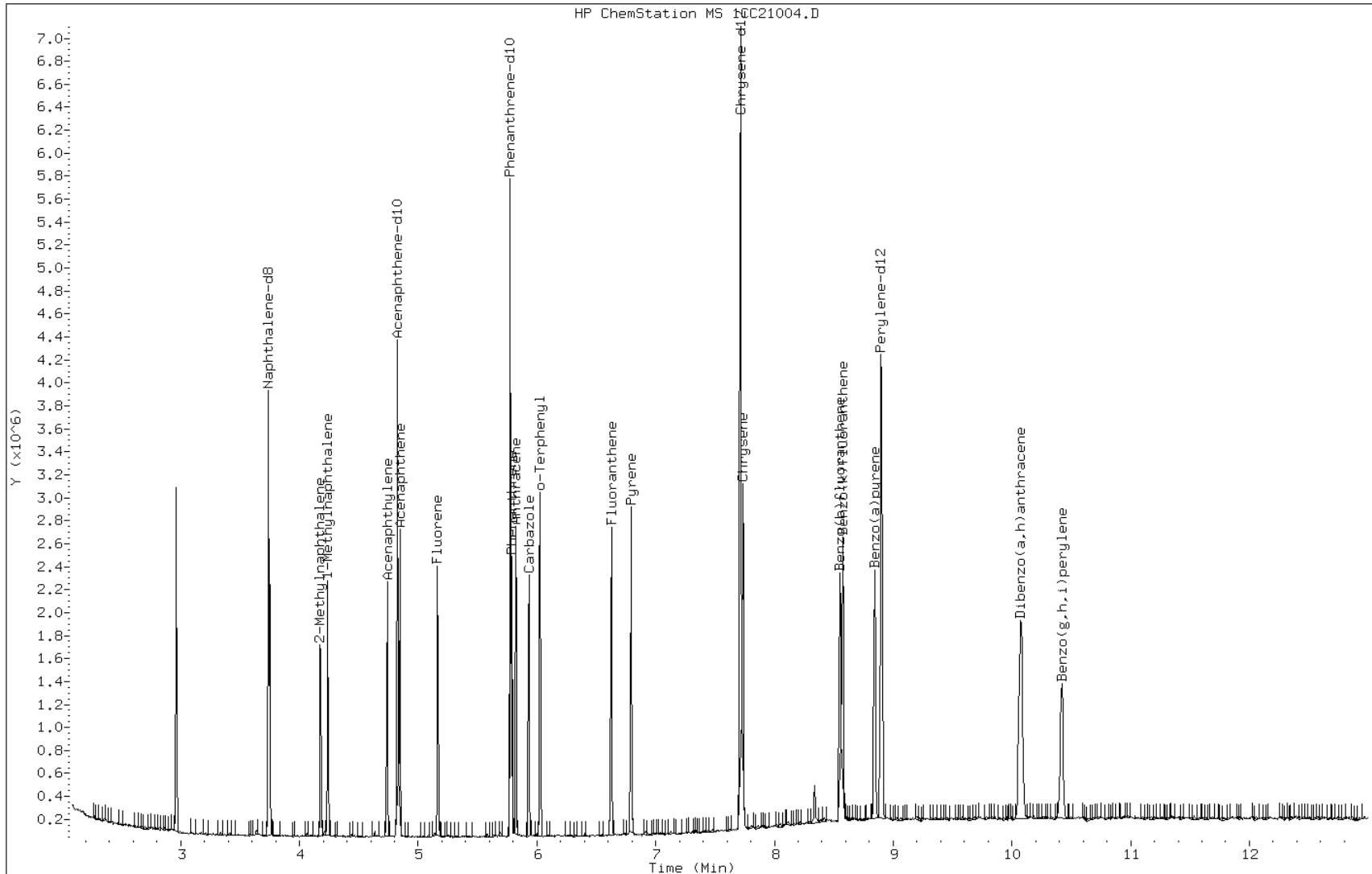
Date: 21-MAR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

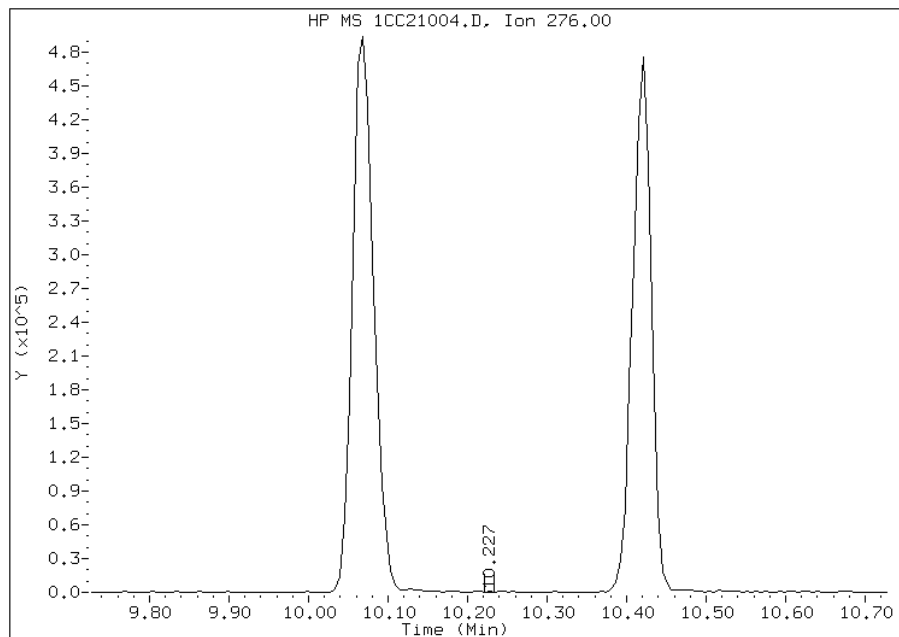


Manual Integration Report

Data File: 1CC21004.D
Inj. Date and Time: 21-MAR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

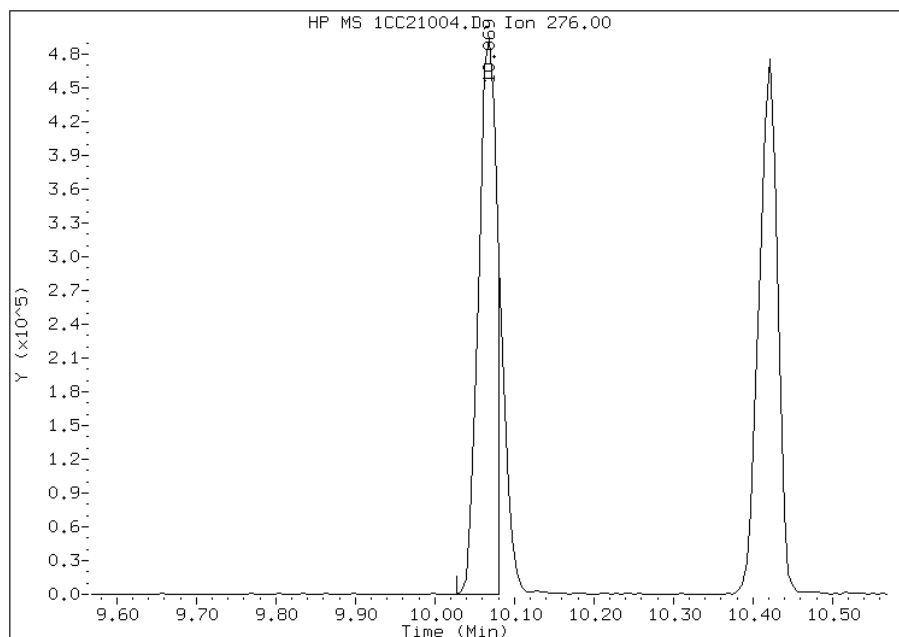
Processing Integration Results

RT: 10.23
Response: 461
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.07
Response: 791649
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:08
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab Sample ID: CCVIS 660-135753/3 Calibration Date: 03/25/2013 12:33
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CC25003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.093	0.0000	21000	20000	5.0	20.0
2-Methylnaphthalene	Ave	0.6946	0.7167	0.0000	20600	20000	3.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6680	0.0000	21100	20000	5.6	20.0
Acenaphthylene	Ave	1.613	1.592	0.0000	19700	20000	-1.3	20.0
Acenaphthene	Ave	1.002	0.9420	0.0000	18800	20000	-6.0	20.0
Fluorene	Ave	1.268	1.281	0.0000	20200	20000	1.1	20.0
Phenanthrene	Ave	1.157	1.117	0.0000	19300	20000	-3.4	20.0
Anthracene	Ave	1.131	1.161	0.0000	20500	20000	2.6	20.0
Carbazole	Ave	1.006	0.9810	0.0000	19500	20000	-2.4	20.0
Fluoranthene	Ave	1.267	1.293	0.0000	20400	20000	2.1	20.0
Pyrene	Ave	1.075	1.120	0.0000	20800	20000	4.2	20.0
Benzo[a]anthracene	Ave	1.154	1.076	0.0000	18600	20000	-6.8	20.0
Chrysene	Ave	1.155	1.128	0.0000	19500	20000	-2.4	20.0
Benzo[b]fluoranthene	Ave	1.045	1.056	0.0000	20200	20000	1.0	20.0
Benzo[k]fluoranthene	Ave	1.072	1.098	0.0000	20500	20000	2.4	20.0
Benzo[a]pyrene	Ave	1.015	1.034	0.0000	20400	20000	1.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9327	0.0000	19500	20000	-2.4	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8765	0.0000	18800	20000	-6.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9389	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.6227	0.0000	20600	20000	3.1	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 25-MAR-2013 12:33
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\a-bFASTPAHi-m.m
 Meth Date : 25-Mar-2013 12:48 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.733	3.733	(1.000)	865252	40.0000	(H)
* 6 Acenaphthene-d10	164	4.821	4.821	(1.000)	707658	40.0000	(H)
* 10 Phenanthrene-d10	188	5.768	5.768	(1.000)	1324682	40.0000	(H)
\$ 14 o-Terphenyl	230	6.021	6.021	(1.044)	412404	20.0000	20.6197(H)
* 18 Chrysene-d12	240	7.715	7.715	(1.000)	1661991	40.0000	(H)
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1628045	40.0000	(H)
2 Naphthalene	128	3.745	3.745	(1.003)	472999	20.0000	20.9981(H)
3 2-Methylnaphthalene	142	4.174	4.174	(1.118)	310052	20.0000	20.6348(H)
4 1-Methylnaphthalene	142	4.233	4.233	(1.134)	289003	20.0000	21.1185(H)
5 Acenaphthylene	152	4.733	4.733	(0.982)	563257	20.0000	19.7422(H)
7 Acenaphthene	154	4.839	4.839	(1.004)	333298	20.0000	18.7950(H)
9 Fluorene	166	5.162	5.162	(1.071)	453380	20.0000	20.2157(H)
11 Phenanthrene	178	5.786	5.786	(1.003)	739809	20.0000	19.3141(H)
12 Anthracene	178	5.821	5.821	(1.009)	768745	20.0000	20.5211(H)
13 Carbazole	167	5.927	5.927	(1.028)	649728	20.0000	19.5112(H)
15 Fluoranthene	202	6.621	6.621	(1.148)	856669	20.0000	20.4224(H)
16 Pyrene	202	6.792	6.792	(0.880)	931042	20.0000	20.8456(H)
17 Benzo(a)anthracene	228	7.703	7.703	(0.998)	894134	20.0000	18.6401(H)
19 Chrysene	228	7.733	7.733	(1.002)	937193	20.0000	19.5231(H)
20 Benzo(b)fluoranthene	252	8.550	8.550	(0.961)	859762	20.0000	20.2074(H)
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	893769	20.0000	20.4774(H)
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	841478	20.0000	20.3614(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.131)	759255	20.0000	19.5296(MH)
25 Dibenzo(a,h)anthracene	278	10.080	10.080	(1.133)	713468	20.0000	18.7620(H)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.171)	764253	20.0000	18.7922(H)

QC Flag Legend

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

Data File: 1CC25003.D

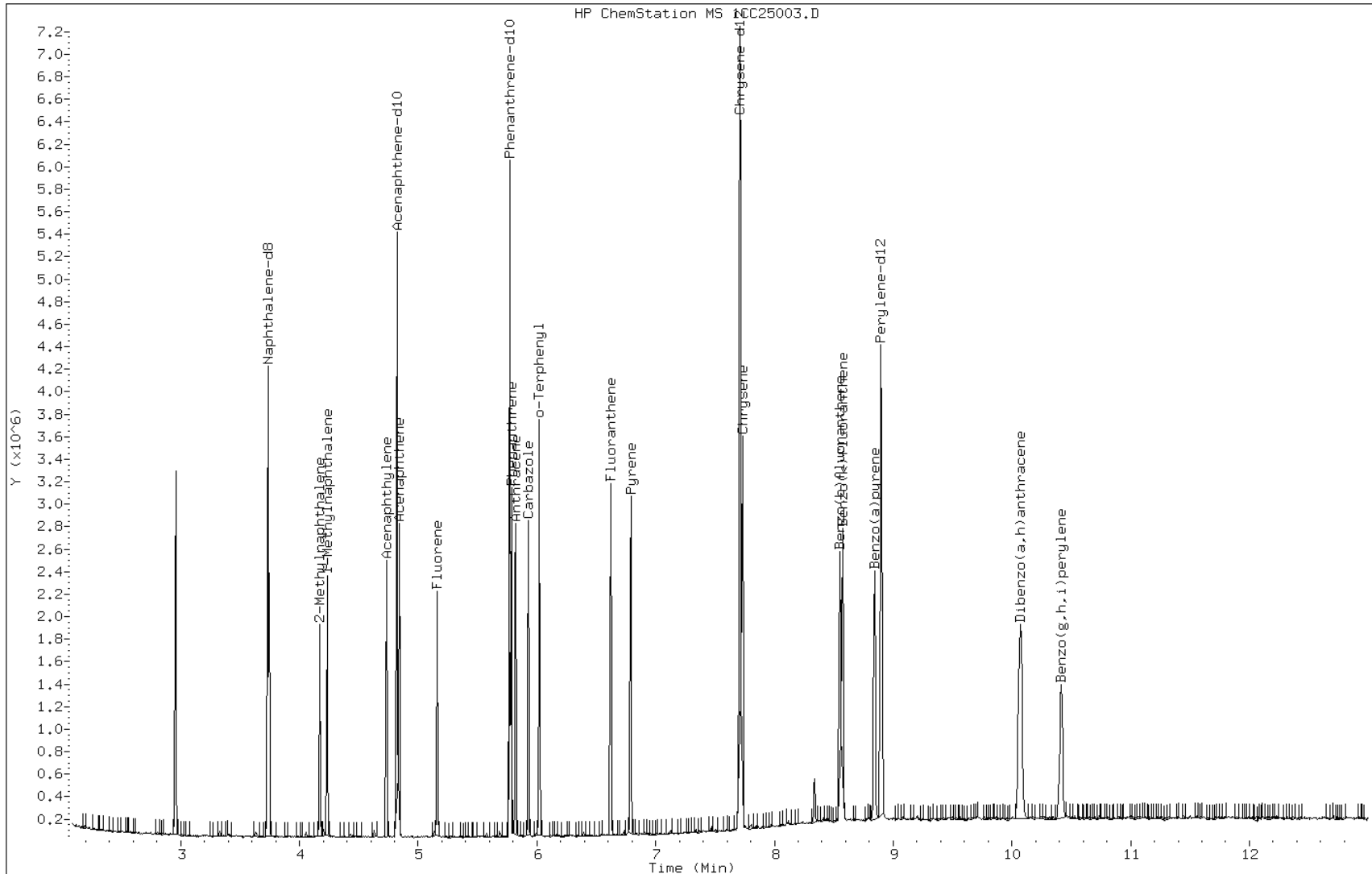
Date: 25-MAR-2013 12:33

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

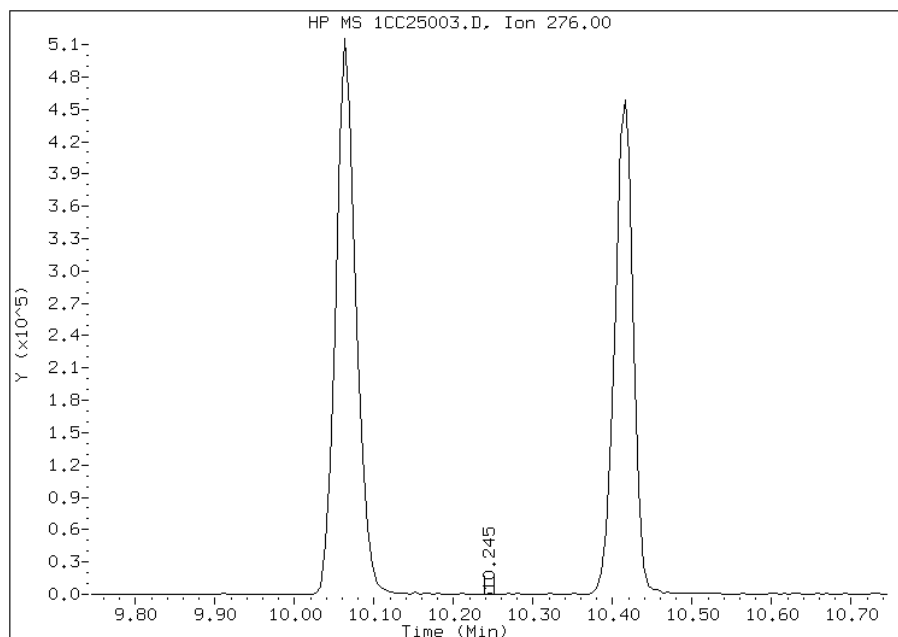


Manual Integration Report

Data File: 1CC25003.D
Inj. Date and Time: 25-MAR-2013 12:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

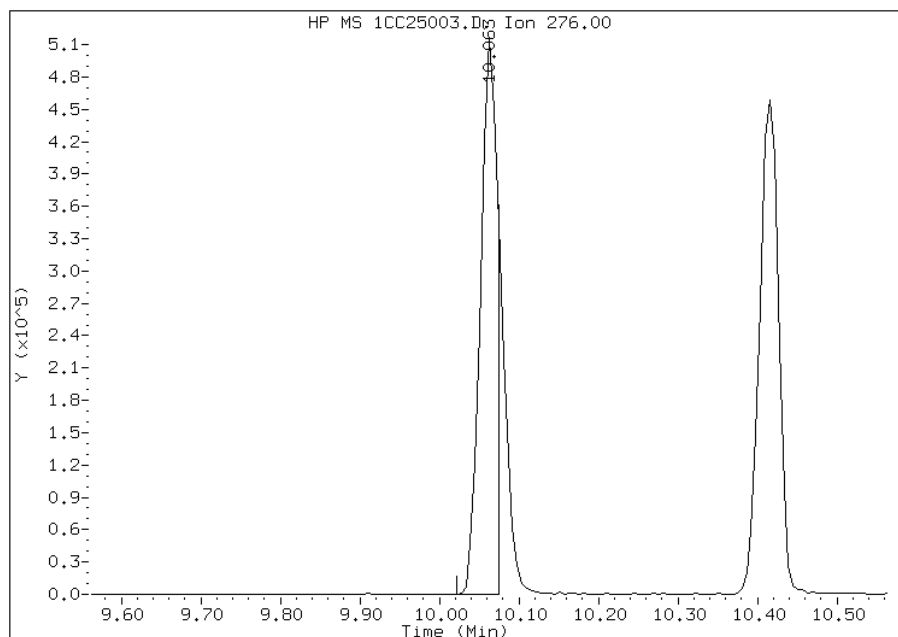
Processing Integration Results

RT: 10.24
Response: 357
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.06
Response: 759255
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:50
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab Sample ID: ICV 660-134781/10 Calibration Date: 02/22/2013 14:51
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28
 Lab File ID: 1DB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	0.9509	0.0000	17800	20000	-11.1	35.0
2-Methylnaphthalene	Ave	0.6816	0.6138	0.0000	18000	20000	-9.9	35.0
1-Methylnaphthalene	Ave	0.6383	0.5884	0.0000	18400	20000	-7.8	35.0
Acenaphthylene	Ave	1.764	1.543	0.0000	17500	20000	-12.5	35.0
Acenaphthene	Ave	1.075	0.9046	0.0000	16800	20000	-15.9	35.0
Fluorene	Ave	1.256	1.107	0.0000	17600	20000	-11.9	35.0
Phenanthrene	Ave	1.135	0.9678	0.0000	17000	20000	-14.8	35.0
Anthracene	Ave	1.136	0.9920	0.0000	17500	20000	-12.7	35.0
Carbazole	Ave	1.016	0.8513	0.0000	16800	20000	-16.2	35.0
Fluoranthene	Ave	1.185	1.044	0.0000	17600	20000	-11.9	35.0
Pyrene	Ave	1.241	1.040	0.0000	16800	20000	-16.1	35.0
Benzo[a]anthracene	LinF	1.184	1.006	0.0000	18400	20000	-8.1	35.0
Chrysene	Ave	1.131	0.9327	0.0000	16500	20000	-17.5	35.0
Benzo[b]fluoranthene	Ave	1.030	0.9311	0.0000	18100	20000	-9.6	35.0
Benzo[k]fluoranthene	Ave	1.078	0.9609	0.0000	17800	20000	-10.9	35.0
Benzo[a]pyrene	Ave	1.019	0.8258	0.0000	16200	20000	-19.0	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9629	0.0000	17700	20000	-11.4	35.0
Dibenz(a,h)anthracene	Ave	1.004	0.9897	0.0000	19700	20000	-1.4	35.0
Benzo[g,h,i]perylene	Ave	1.037	0.9265	0.0000	17900	20000	-10.6	35.0
o-Terphenyl	Ave	0.6186	0.5223	0.0000	16900	20000	-15.6	35.0

TestAmerica Laboratories

Semivolatle 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 22-FEB-2013 14:51
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\dFASTPAHi.m
 Meth Date : 22-Feb-2013 15:03 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.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/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136		6.186	6.188	(1.000)	3227519	40.0000		
* 6 Acenaphthene-d10	164		7.861	7.856	(1.000)	1973397	40.0000		
* 9 Phenanthrene-d10	188		9.118	9.114	(1.000)	3226971	40.0000		
\$ 13 o-Terphenyl	230		9.424	9.431	(1.034)	842705	16.8872	17	
* 17 Chrysene-d12	240		11.463	11.464	(1.000)	3262056	40.0000		
* 22 Perylene-d12	264		13.343	13.344	(1.000)	3389756	40.0000		
2 Naphthalene	128		6.204	6.205	(1.003)	1534495	17.7730	18	
3 2-Methylnaphthalene	142		6.903	6.910	(1.116)	990529	18.0102	18	
4 1-Methylnaphthalene	142		6.997	6.999	(1.131)	949525	18.4366	18	
5 Acenaphthylene	152		7.732	7.733	(0.984)	1522763	17.5026	18	
7 Acenaphthene	154		7.884	7.886	(1.003)	892518	16.8249	17	
8 Fluorene	166		8.325	8.326	(1.059)	1091870	17.6166	18	
10 Phenanthrene	178		9.136	9.137	(1.002)	1561459	17.0459	17	
11 Anthracene	178		9.177	9.184	(1.006)	1600546	17.4635	17	
12 Carbazole	167		9.324	9.313	(1.023)	1373599	16.7651	17(M)	
14 Fluoranthene	202		10.117	10.124	(1.110)	1683952	17.6156	18	
15 Pyrene	202		10.305	10.312	(0.899)	1697011	16.7712	17	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.439	11.446	(0.998)	1641298	18.3780	18
18 Chrysene	228	11.486	11.499	(1.002)	1521333	16.5002	16
19 Benzo(b)fluoranthene	252	12.779	12.792	(0.958)	1578092	18.0867	18
20 Benzo(k)fluoranthene	252	12.820	12.839	(0.961)	1628670	17.8278	18
21 Benzo(a)pyrene	252	13.243	13.262	(0.993)	1399541	16.2092	16
23 Indeno(1,2,3-cd)pyrene	276	14.964	14.995	(1.122)	1631960	17.7111	18(H)
24 Dibenzo(a,h)anthracene	278	15.000	15.030	(1.124)	1677351	19.7111	20
25 Benzo(g,h,i)perylene	276	15.428	15.465	(1.156)	1570269	17.8738	18

QC Flag Legend

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

Data File: 1DB22010.D

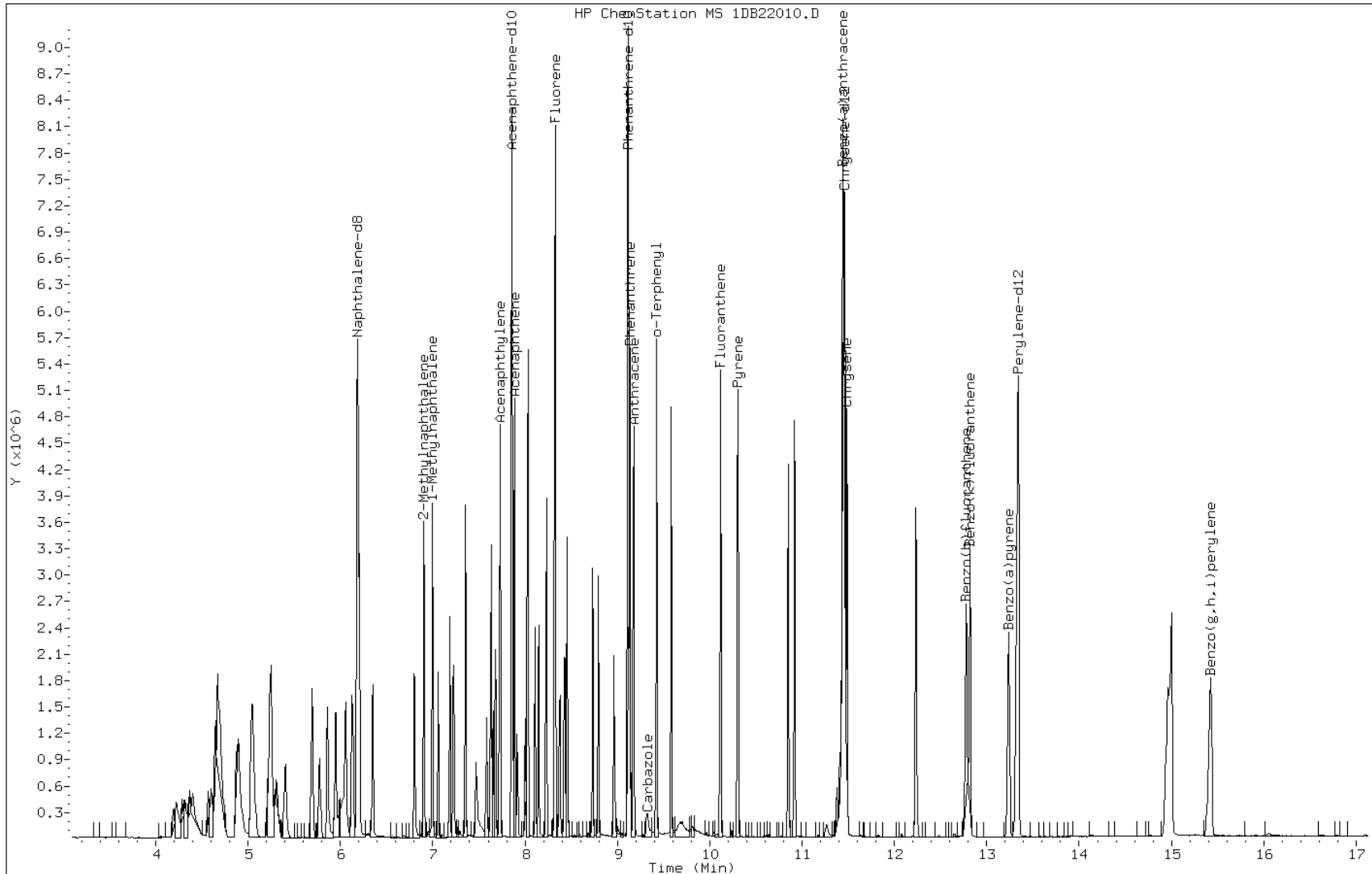
Date: 22-FEB-2013 14:51

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC

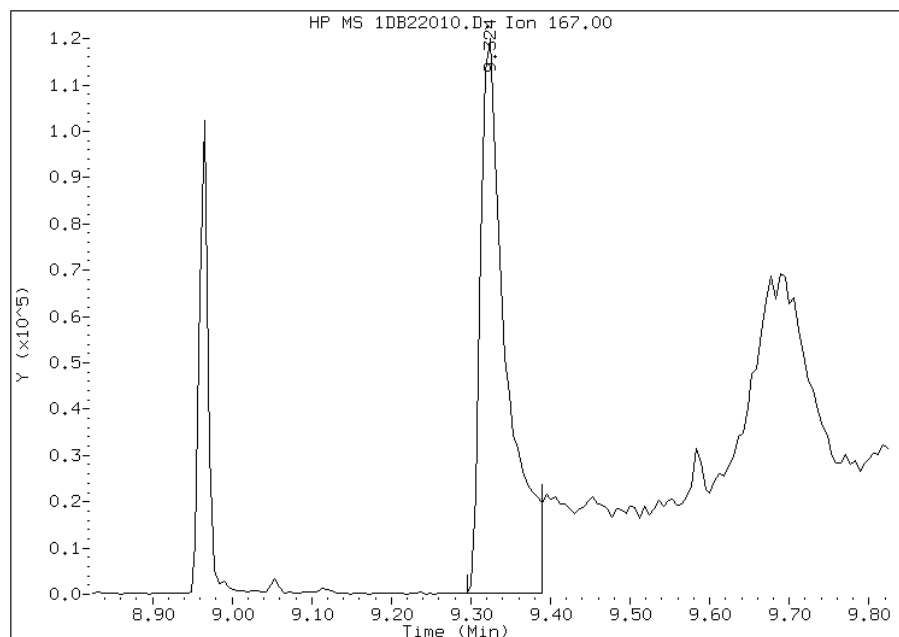


Manual Integration Report

Data File: 1DB22010.D
Inj. Date and Time: 22-FEB-2013 14:51
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

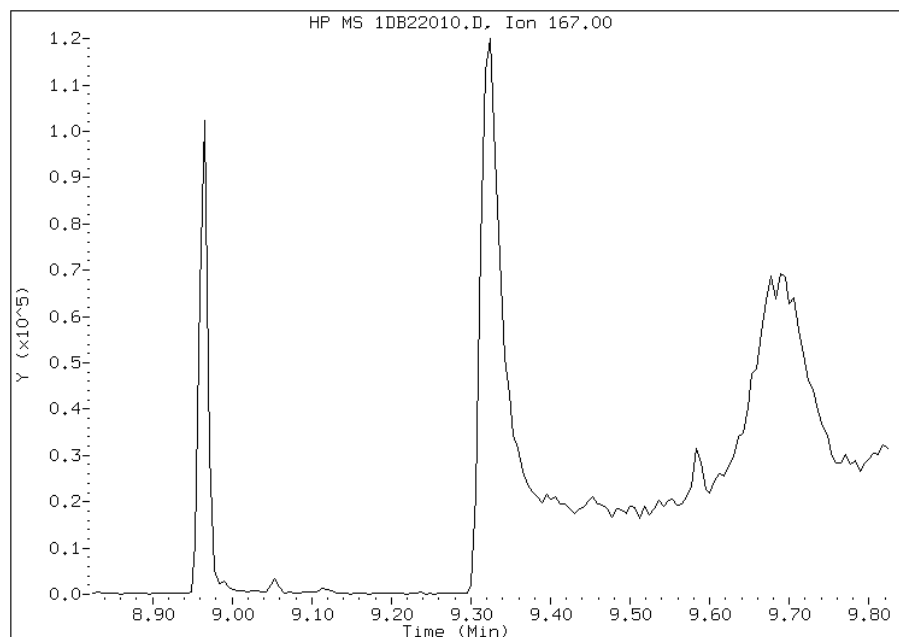
Processing Integration Results

RT: 9.32
Response: 270307
Amount: 3
Conc: 3



Manual Integration Results

RT: 9.32
Response: 1373599
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 15:27
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Lab Sample ID: CCVIS 660-135792/3 Calibration Date: 03/26/2013 10:32
 Instrument ID: BSMD5973 Calib Start Date: 02/22/2013 12:13
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 14:28
 Lab File ID: 1DC26003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.070	1.035	0.0000	19400	20000	-3.2	20.0
2-Methylnaphthalene	Ave	0.6816	0.6731	0.0000	19800	20000	-1.2	20.0
1-Methylnaphthalene	Ave	0.6383	0.6551	0.0000	20500	20000	2.6	20.0
Acenaphthylene	Ave	1.764	1.708	0.0000	19400	20000	-3.1	20.0
Acenaphthene	Ave	1.075	1.015	0.0000	18900	20000	-5.6	20.0
Fluorene	Ave	1.256	1.193	0.0000	19000	20000	-5.1	20.0
Phenanthrene	Ave	1.135	1.089	0.0000	19200	20000	-4.1	20.0
Anthracene	Ave	1.136	1.096	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.016	0.9537	0.0000	18800	20000	-6.1	20.0
Fluoranthene	Ave	1.185	1.152	0.0000	19400	20000	-2.8	20.0
Pyrene	Ave	1.241	1.228	0.0000	19800	20000	-1.0	20.0
Benzo[a]anthracene	LinF	1.184	1.055	0.0000	19300	20000	-3.6	20.0
Chrysene	Ave	1.131	1.058	0.0000	18700	20000	-6.4	20.0
Benzo[b]fluoranthene	Ave	1.030	1.018	0.0000	19800	20000	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.078	1.095	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.019	1.006	0.0000	19800	20000	-1.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.087	0.9164	0.0000	16900	20000	-15.7	20.0
Dibenz(a,h)anthracene	Ave	1.004	0.8278	0.0000	16500	20000	-17.6	20.0
Benzo[g,h,i]perylene	Ave	1.037	0.8327	0.0000	16100	20000	-19.7	20.0
o-Terphenyl	Ave	0.6186	0.6201	0.0000	20000	20000	0.2	20.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 26-MAR-2013 10:32
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\dFASTPAHi.m
 Meth Date : 26-Mar-2013 10:51 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 14:28 Cal File: 1DB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.126	6.126	(1.000)	2497630	40.0000	(H)
* 6 Acenaphthene-d10	164	7.800	7.800	(1.000)	1612962	40.0000	(H)
* 9 Phenanthrene-d10	188	9.063	9.063	(1.000)	2599869	40.0000	(H)
\$ 13 o-Terphenyl	230	9.375	9.375	(1.034)	806068	20.0000	20(H)
* 17 Chrysene-d12	240	11.402	11.402	(1.000)	2607802	40.0000	(H)
* 22 Perylene-d12	264	13.270	13.270	(1.000)	2561814	40.0000	(H)
2 Naphthalene	128	6.149	6.149	(1.004)	1292910	20.0000	19(H)
3 2-Methylnaphthalene	142	6.848	6.848	(1.118)	840608	20.0000	20(H)
4 1-Methylnaphthalene	142	6.942	6.942	(1.133)	818082	20.0000	20(H)
5 Acenaphthylene	152	7.677	7.677	(0.984)	1377526	20.0000	19(H)
7 Acenaphthene	154	7.829	7.829	(1.004)	818640	20.0000	19(H)
8 Fluorene	166	8.270	8.270	(1.060)	961936	20.0000	19(H)
10 Phenanthrene	178	9.087	9.087	(1.003)	1415558	20.0000	19(H)
11 Anthracene	178	9.128	9.128	(1.007)	1425288	20.0000	19(H)
12 Carbazole	167	9.269	9.269	(1.023)	1239804	20.0000	19
14 Fluoranthene	202	10.068	10.068	(1.111)	1497661	20.0000	19(H)
15 Pyrene	202	10.256	10.256	(0.900)	1601221	20.0000	20(H)
16 Benzo(a)anthracene	228	11.384	11.384	(0.998)	1375959	20.0000	19(H)
18 Chrysene	228	11.431	11.431	(1.003)	1380061	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.712	12.712	(0.958)	1303865	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.753	12.753	(0.961)	1401959	20.0000	20(H)
21 Benzo(a)pyrene	252	13.170	13.170	(0.992)	1289065	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.886	14.886	(1.122)	1173782	20.0000	17(MH)
24 Dibenzo(a,h)anthracene	278	14.915	14.915	(1.124)	1060311	20.0000	16(H)
25 Benzo(g,h,i)perylene	276	15.344	15.344	(1.156)	1066553	20.0000	16(H)

QC Flag Legend

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

Data File: 1DC26003.D

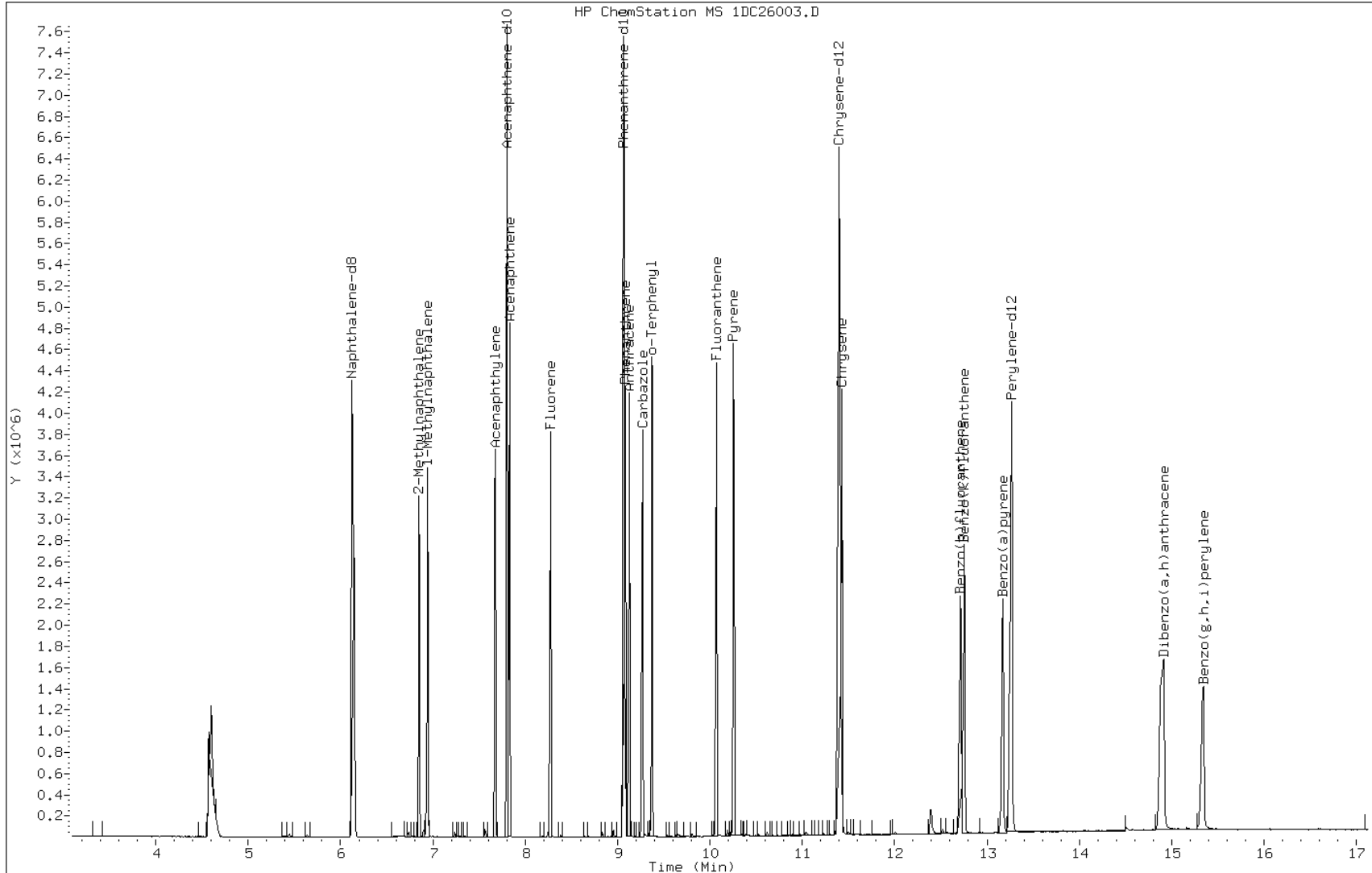
Date: 26-MAR-2013 10:32

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1512372

Operator: SCC

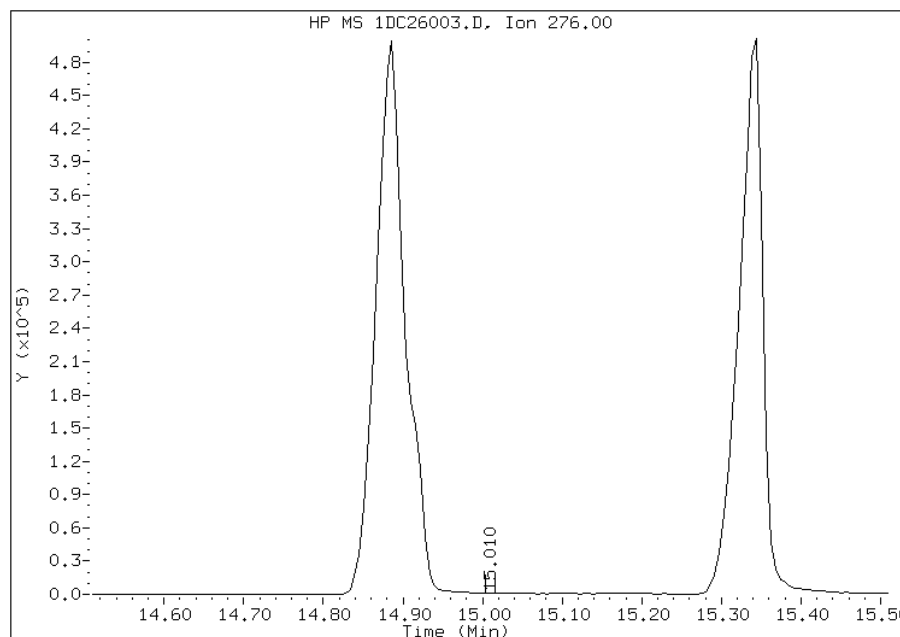


Manual Integration Report

Data File: 1DC26003.D
Inj. Date and Time: 26-MAR-2013 10:32
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/26/2013

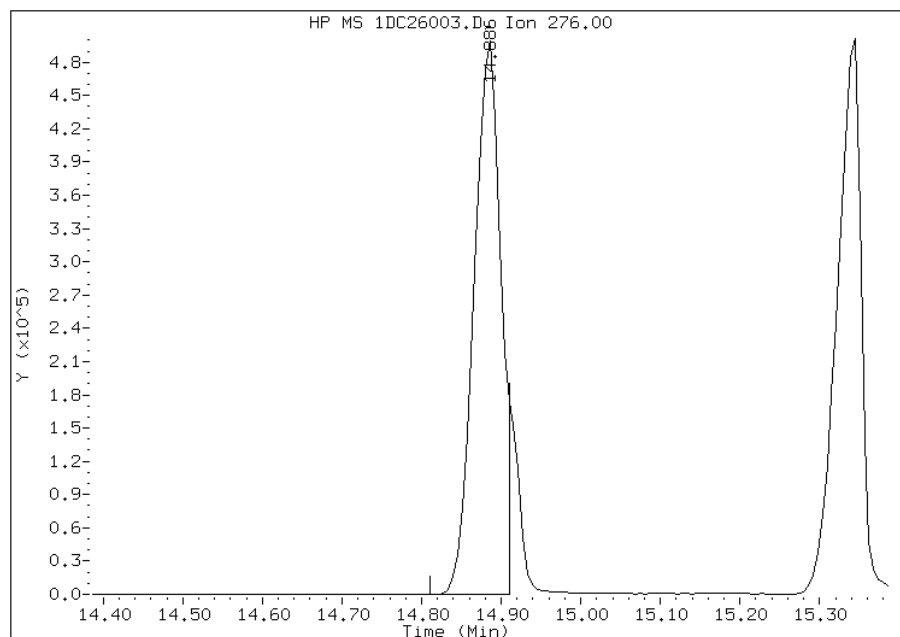
Processing Integration Results

RT: 15.01
Response: 250
Amount: 0
Conc: 0



Manual Integration Results

RT: 14.89
Response: 1173782
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 26-Mar-2013 10:52
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\1CB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
		ON-COL		FINAL		TARGET RANGE		RATIO	
RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)				
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.404	7.469	-0.065	198	73440		50.00-	0.00	100.00	
7.404	7.469	-0.065	51	31096		10.00-	80.00	42.34	
7.404	7.469	-0.065	68	471		0.00-	2.00	1.08	
7.404	7.469	-0.065	69	43512		0.00-	0.00	59.25	
7.404	7.469	-0.065	70	192		0.00-	2.00	0.44	
7.404	7.469	-0.065	127	39368		10.00-	80.00	53.61	
7.404	7.469	-0.065	197	733		0.00-	2.00	1.00	
7.404	7.469	-0.065	442	38240		50.00-	0.00	52.07	
7.404	7.469	-0.065	199	6330		5.00-	9.00	8.62	
7.404	7.469	-0.065	275	14104		10.00-	60.00	19.20	
7.404	7.469	-0.065	365	1462		1.00-	0.00	1.99	
7.404	7.469	-0.065	441	5496		0.01-	99.99	86.06	
7.404	7.469	-0.065	443	6386		15.00-	24.00	16.70	

Data File: 1CB22002.D

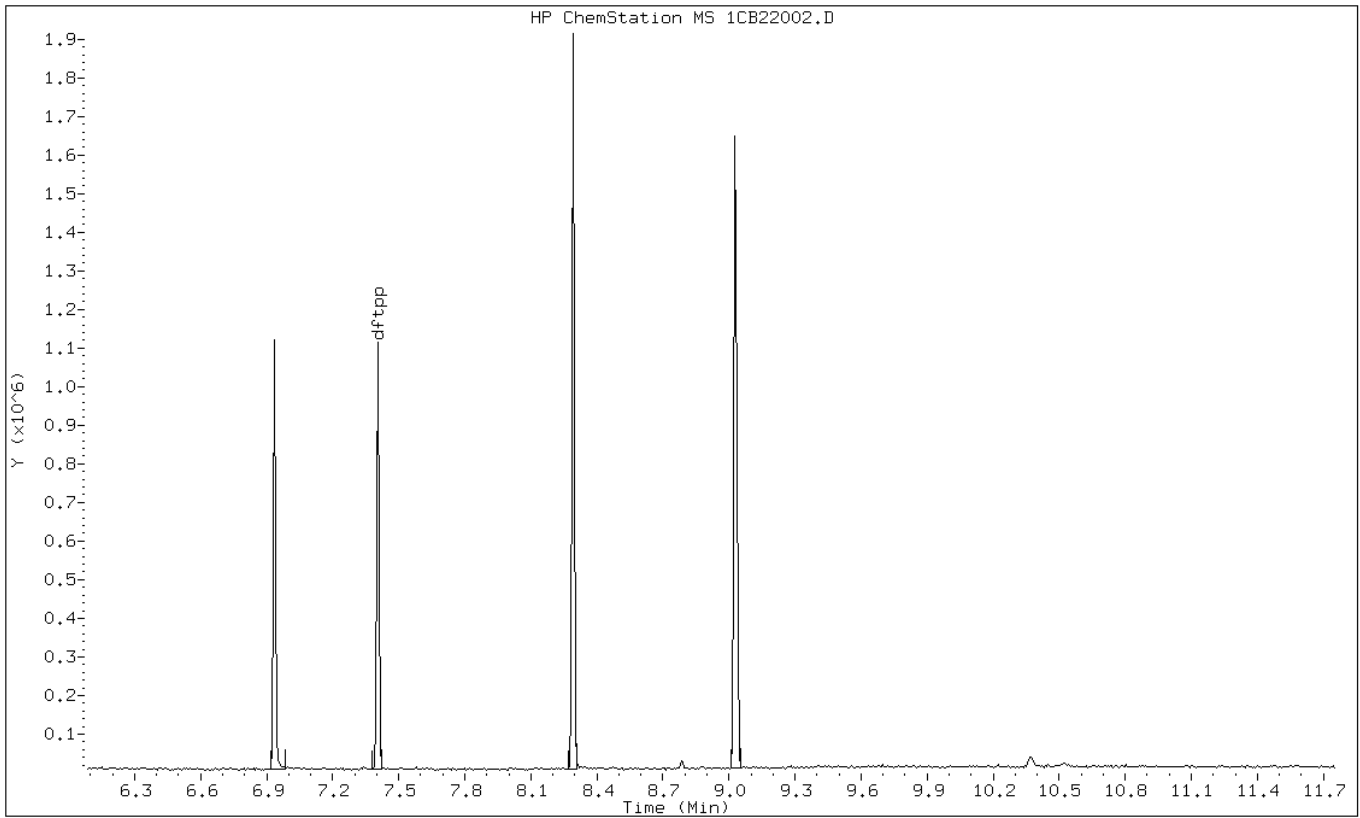
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

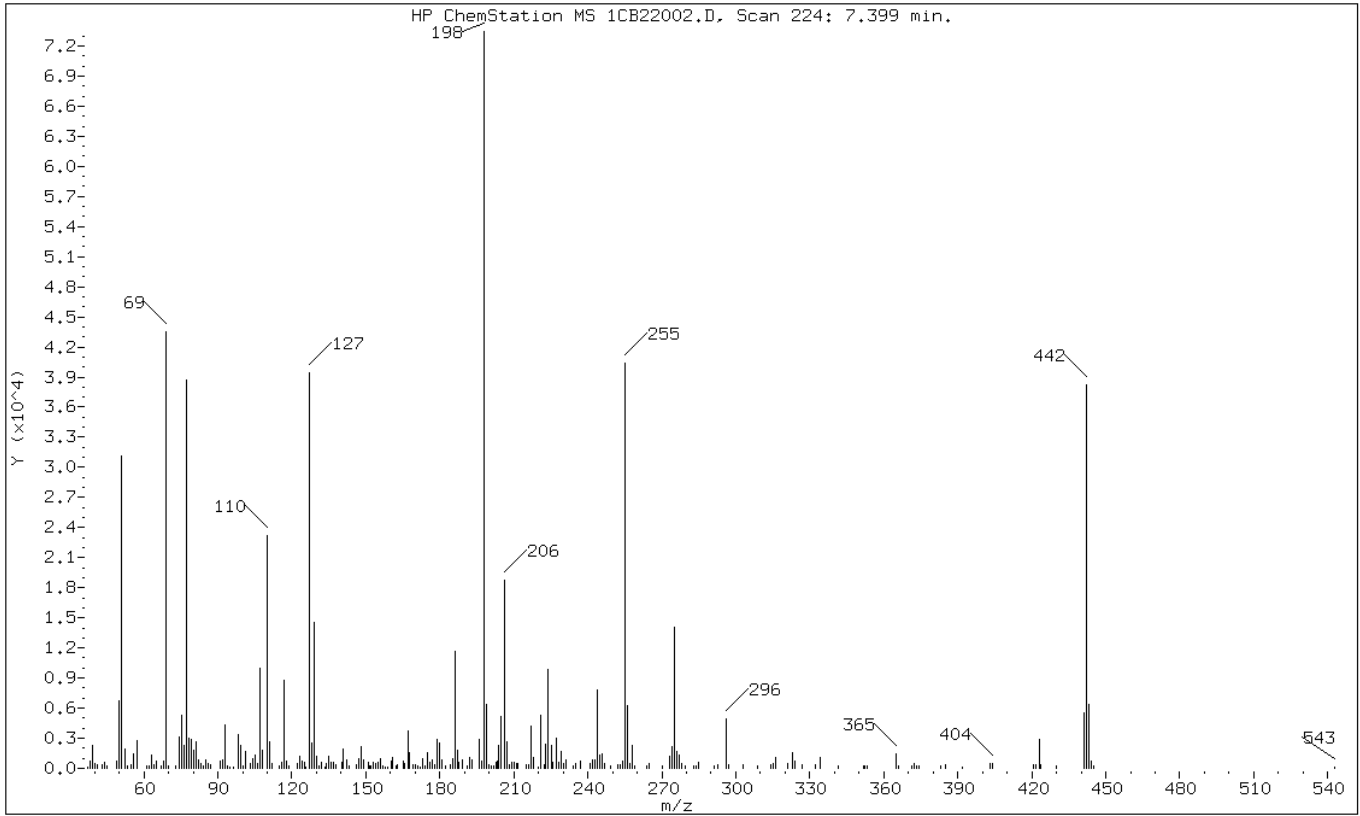
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.34
68	Less than 2.00% of mass 69	0.64 (1.08)
69	Mass 69 relative abundance	59.25
70	Less than 2.00% of mass 69	0.26 (0.44)
127	10.00 - 80.00% of mass 198	53.61
197	Less than 2.00% of mass 198	1.00
442	Greater than 50.00% of mass 198	52.07
199	5.00 - 9.00% of mass 198	8.62
275	10.00 - 60.00% of mass 198	19.20
365	Greater than 1.00% of mass 198	1.99
441	Present, but less than mass 443	7.48
443	15.00 - 24.00% of mass 442	8.70 (16.70)

Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022213_pahIC.b\1CB22002.D

Spectrum: HP ChemStation MS 1CB22002.D, Scan 224: 7.399 min.

Location of Maximum: 198.00

Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	176	115.10	214	181.00	901	256.00	6303
38.10	755	116.00	605	182.10	220	256.90	429
39.10	2229	117.00	8730	184.00	307	257.90	2280
40.10	531	117.90	749	185.10	1015	258.90	258
41.10	318	119.00	225	186.10	11683	263.90	210
42.90	335	122.00	424	187.10	1756	265.00	509
44.00	648	123.00	1147	187.90	552	270.00	205
45.20	211	124.10	749	188.90	869	273.00	1169
49.10	738	125.10	635	191.00	237	274.00	2122
50.10	6757	125.80	170	192.00	1104	275.00	14104
51.10	31096	127.10	39368	193.10	865	275.90	1652
52.10	1930	128.10	2564	196.00	2872	277.00	1264
53.20	277	129.00	14531	196.90	733	277.90	505
55.00	369	129.80	1177	198.00	73440	279.70	194
56.00	1418	131.00	276	199.00	6330	283.00	190
57.00	2762	132.10	570	199.90	373	283.80	183
61.00	226	133.20	171	201.00	298	285.00	556
62.00	292	134.10	490	201.60	269	291.10	200
63.20	1348	135.10	1144	202.90	583	292.90	373
64.00	333	136.10	602	203.30	687	296.00	4941
65.10	737	137.00	557	204.00	2340	297.00	339
66.90	287	137.80	323	205.00	5123	302.90	397
67.80	471	140.10	644	206.10	18696	308.90	282
68.20	663	141.00	1972	207.10	2615	314.00	365
69.10	43512	142.00	851	208.00	418	315.10	502
70.00	192	143.10	211	209.00	555	316.10	1036
73.10	186	146.10	337	210.30	624	321.00	472
74.10	3155	147.00	919	210.90	494	323.00	1518
75.10	5232	148.00	2159	211.60	459	324.00	680
76.10	2236	149.00	790	214.90	324	327.10	397
77.10	38720	151.00	613	215.80	325	332.10	308
78.10	3056	151.70	298	217.00	4236	334.20	1026
79.10	2911	152.20	189	218.00	1088	341.30	184
80.00	1751	153.00	575	220.00	170	351.80	221
81.10	2627	154.10	436	221.10	5285	352.40	258
82.00	869	155.10	587	222.20	336	353.20	226
83.10	502	156.00	912	222.80	2398	364.90	1462
83.90	288	156.80	189	224.00	9837	365.90	266
85.00	785	158.00	151	225.10	2230	371.10	209
86.10	533	158.90	165	226.00	626	372.10	462

87.10	324	160.10	719	227.00	3030	373.10	210
91.10	726	160.90	1140	228.00	610	374.50	233
91.90	792	162.10	280	229.00	1664	383.20	274
93.10	4314	162.70	420	230.00	453	384.80	322
94.00	297	165.00	758	231.00	869	391.80	159
+-----+							
95.00	178	165.90	506	234.00	203	402.90	522
96.10	155	167.00	3698	234.90	491	404.10	524
98.10	3307	167.80	1598	236.90	687	420.90	334
99.10	2331	169.10	332	240.80	432	421.80	348
100.00	203	170.20	321	242.00	793	423.00	2839
+-----+							
101.00	1667	171.10	292	242.90	893	423.80	381
103.00	538	171.80	156	244.00	7817	430.10	181
104.10	935	173.20	904	245.00	1351	441.00	5496
105.10	1280	174.10	287	246.00	1390	442.00	38240
106.20	492	175.00	1609	246.80	435	443.10	6386
+-----+							
107.00	9992	176.00	544	249.00	291	444.00	706
108.00	1788	177.10	810	252.10	410	444.90	181
110.00	23216	177.80	349	252.90	317	542.80	156
111.10	2593	179.10	2922	253.90	662		
112.10	540	180.00	2572	255.00	40344		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 21-MAR-2013 11:33
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.333	7.469	-0.136	198	153344			50.00-	0.00	100.00
7.333	7.469	-0.136	51	51408			10.00-	80.00	33.52
7.333	7.469	-0.136	68	926			0.00-	2.00	1.31
7.333	7.469	-0.136	69	70728			0.00-	0.00	46.12
7.333	7.469	-0.136	70	260			0.00-	2.00	0.37
7.333	7.469	-0.136	127	64272			10.00-	80.00	41.91
7.333	7.469	-0.136	197	0	0.0	0.0	0.00-	2.00	0.00
7.333	7.469	-0.136	442	112688			50.00-	0.00	73.49
7.333	7.469	-0.136	199	9425			5.00-	9.00	6.15
7.333	7.469	-0.136	275	32776			10.00-	60.00	21.37
7.333	7.469	-0.136	365	4110			1.00-	0.00	2.68
7.333	7.469	-0.136	441	15888			0.01-	99.99	69.98
7.333	7.469	-0.136	443	22704			15.00-	24.00	20.15

Data File: 1CC21003.D

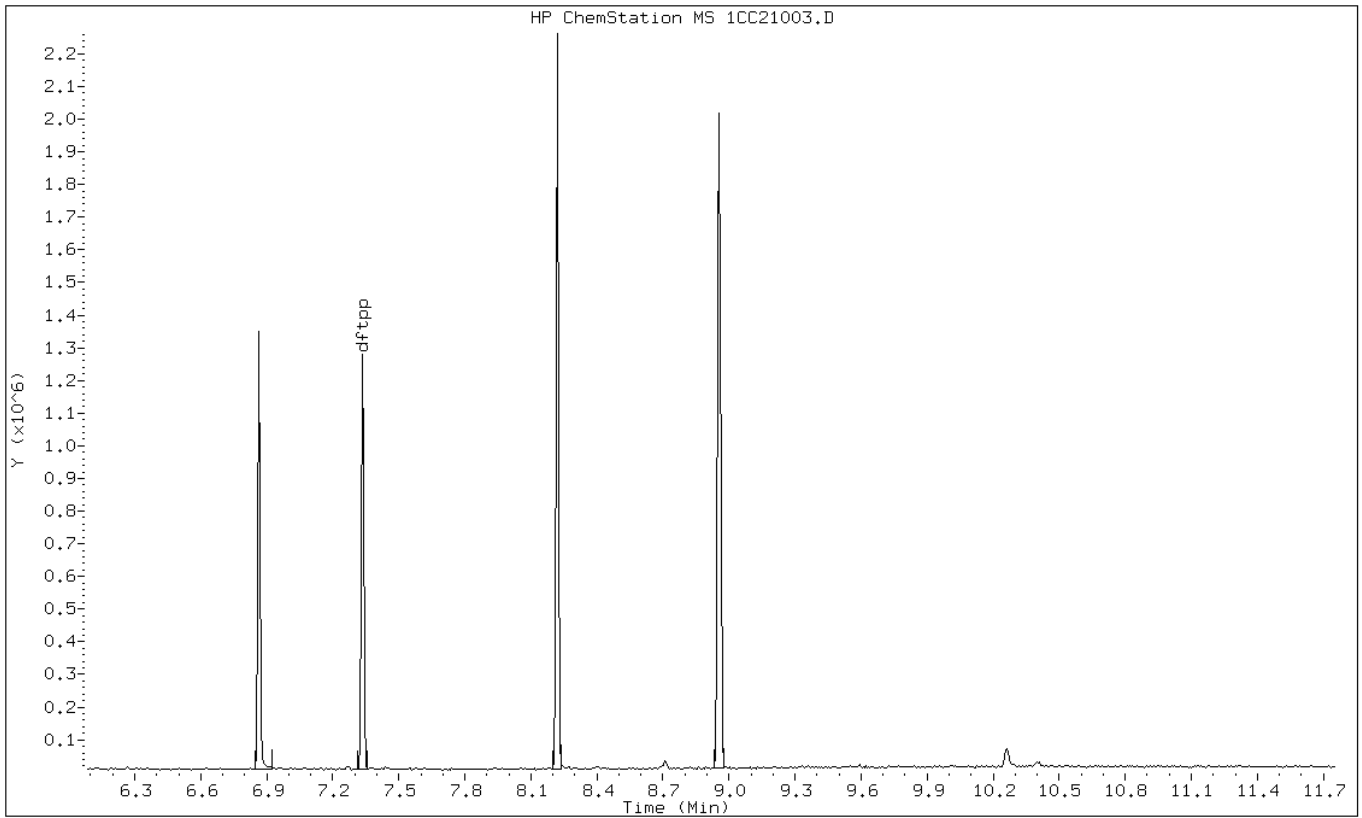
Date: 21-MAR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

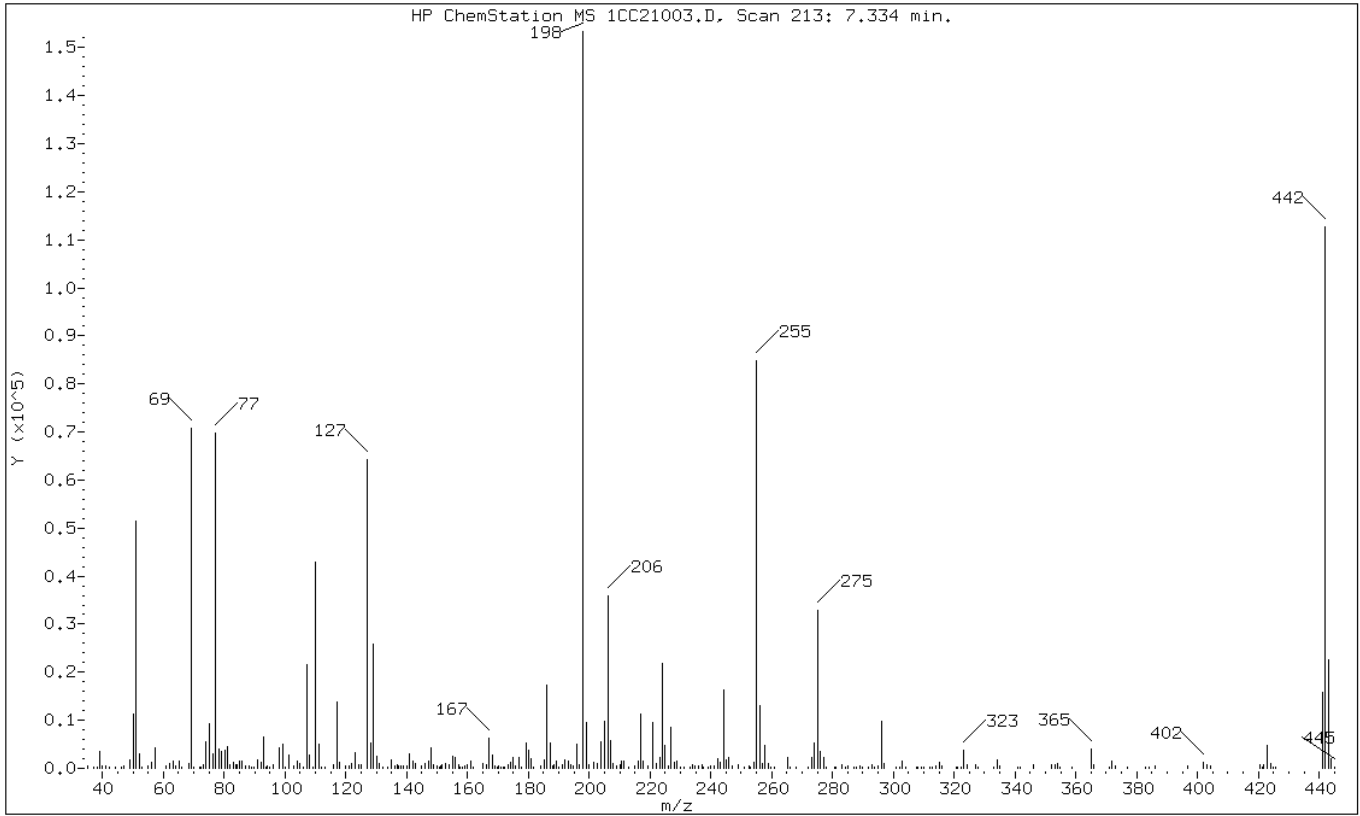
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	33.52
68	Less than 2.00% of mass 69	0.60 (1.31)
69	Mass 69 relative abundance	46.12
70	Less than 2.00% of mass 69	0.17 (0.37)
127	10.00 - 80.00% of mass 198	41.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.49
199	5.00 - 9.00% of mass 198	6.15
275	10.00 - 60.00% of mass 198	21.37
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	10.36
443	15.00 - 24.00% of mass 442	14.81 (20.15)

Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D

Spectrum: HP ChemStation MS 1CC21003.D, Scan 213: 7.334 min.

Location of Maximum: 198.00

Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	388	120.00	463	193.20	1544	280.80	245
37.00	271	121.10	467	193.80	786	281.20	158
38.20	230	122.00	1103	194.90	438	283.10	772
39.10	3419	123.00	3178	196.00	5138	284.20	158
40.00	576	124.10	652	196.60	749	285.10	440
41.00	492	125.10	862	198.00	153344	287.10	205
42.30	172	127.10	64272	199.00	9425	287.80	243
44.10	335	128.00	5157	200.00	791	288.90	392
46.30	215	129.00	25792	201.50	1150	289.80	282
47.00	505	130.00	2608	202.80	1041	291.80	190
49.10	1839	131.00	892	204.00	5517	293.00	876
50.10	11248	132.10	342	205.00	9884	293.70	315
51.10	51408	133.90	265	206.10	35936	294.90	469
52.10	2955	135.00	1773	207.10	5865	296.00	9727
52.90	349	136.10	573	208.00	883	296.90	943
55.10	409	136.90	722	209.00	546	300.80	280
56.10	1268	137.40	518	210.00	665	302.00	157
57.10	4247	137.90	457	210.60	1414	303.00	1428
61.00	421	139.00	423	211.20	1382	304.00	245
62.00	889	140.10	585	213.00	206	307.70	156
63.10	1394	141.00	2963	215.00	597	308.10	176
64.10	506	142.00	1550	216.20	1385	309.10	172
65.10	1550	143.00	934	217.00	11206	310.00	200
66.00	241	144.90	383	217.90	1428	312.00	200
68.20	926	145.90	924	219.30	408	312.80	251
69.00	70728	147.10	1495	221.00	9473	314.10	565
70.10	260	148.00	4142	222.00	929	315.00	1312
71.90	191	148.90	705	223.10	2174	316.10	469
72.50	157	150.00	533	224.00	21760	320.60	338
73.10	783	150.60	354	225.00	4667	321.00	354
74.10	5420	151.30	575	226.10	578	322.20	189
75.10	9232	151.70	733	227.00	8431	323.10	3744
76.20	3050	152.80	960	228.00	1329	324.20	739
77.10	69880	153.90	797	228.90	1502	327.10	708
78.10	4026	155.10	2411	230.00	295	327.90	298
79.00	3626	156.10	2227	231.10	295	332.90	233
80.10	3698	157.10	875	233.00	301	334.10	1694
81.10	4502	157.70	209	233.90	872	335.10	400
82.00	793	158.10	266	234.90	537	341.10	217
83.00	1195	158.90	573	235.90	441	341.60	225

83.90	774	159.90	716	237.00	738	346.00	718
84.10	778	161.00	1503	237.70	172	351.90	652
85.00	1602	161.90	177	239.10	280	353.00	641
85.90	1440	165.00	980	239.90	406	354.00	971
86.90	482	166.30	862	240.90	381	354.60	168
88.00	483	167.00	6213	242.10	1996	358.90	219
88.90	330	168.20	2789	243.00	1184	365.10	4110
89.60	164	169.00	558	244.10	16384	365.90	860
91.10	1689	169.80	286	245.00	1694	371.00	168
92.10	1353	170.20	400	246.00	2184	372.00	1421
93.00	6440	171.00	219	247.10	426	373.20	494
93.80	223	171.70	256	249.10	726	377.00	174
94.20	384	172.10	218	250.90	201	383.00	325
95.10	248	173.20	638	252.60	407	384.00	257
96.00	682	174.10	1258	253.00	346	385.90	417
98.00	4177	175.10	2222	254.10	1216	396.90	402
99.10	4929	175.90	494	255.00	84872	401.90	1264
100.00	342	177.10	2171	256.00	12985	403.10	799
101.10	2769	177.80	221	256.90	940	404.20	406
103.00	494	179.10	5179	257.90	4889	420.70	689
104.10	1450	180.10	3709	259.00	912	421.30	221
105.00	927	181.00	2098	259.90	204	421.90	726
106.00	347	181.80	264	260.80	285	423.00	4851
107.10	21688	184.10	543	265.10	2165	424.10	927
108.00	2864	185.10	1859	265.90	350	424.70	221
109.00	359	186.00	17328	268.00	153	425.70	155
110.00	42824	187.10	5310	272.10	151	441.00	15888
111.00	5053	187.90	553	273.00	2311	442.00	112688
112.00	264	188.30	650	274.00	5251	443.00	22704
113.10	346	189.00	1611	275.00	32776	444.00	2016
115.90	862	189.90	279	275.90	3495	445.10	241
117.10	13707	191.10	793	277.00	2142		
118.00	1133	192.00	1742	277.80	356		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 25-MAR-2013 12:15
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\c-dftpp198.m
 Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
7.327	7.469	-0.142	198	214976			50.00-	0.00	100.00
7.327	7.469	-0.142	51	74280			10.00-	80.00	34.55
7.327	7.469	-0.142	68	1703			0.00-	2.00	1.78
7.327	7.469	-0.142	69	95584			0.00-	0.00	44.46
7.327	7.469	-0.142	70	493			0.00-	2.00	0.52
7.327	7.469	-0.142	127	95656			10.00-	80.00	44.50
7.327	7.469	-0.142	197	1494			0.00-	2.00	0.69
7.327	7.469	-0.142	442	151360			50.00-	0.00	70.41
7.327	7.469	-0.142	199	15400			5.00-	9.00	7.16
7.327	7.469	-0.142	275	43656			10.00-	60.00	20.31
7.327	7.469	-0.142	365	6141			1.00-	0.00	2.86
7.327	7.469	-0.142	441	22032			0.01-	99.99	69.51
7.327	7.469	-0.142	443	31696			15.00-	24.00	20.94

Data File: 1CC25002.D

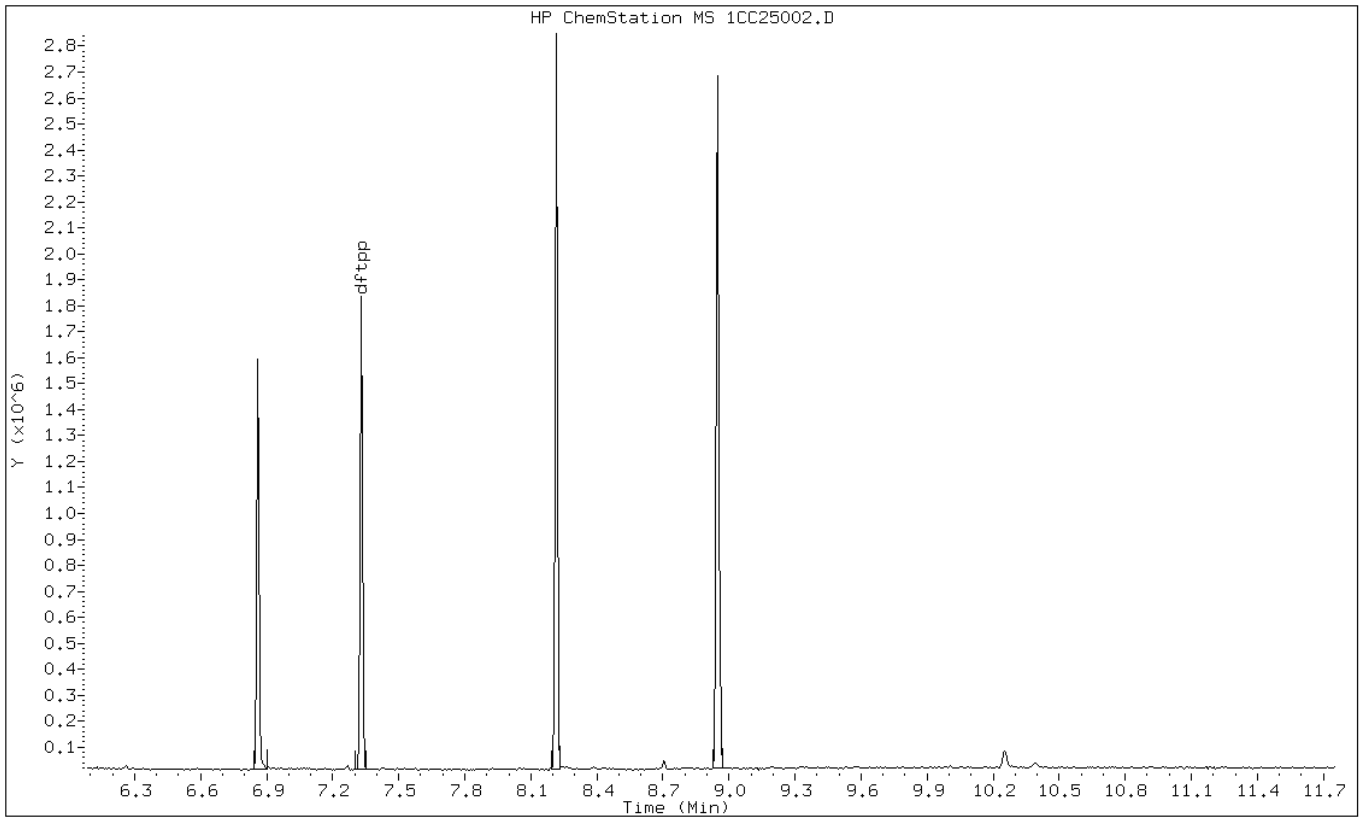
Date: 25-MAR-2013 12:15

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC25002.D

Date: 25-MAR-2013 12:15

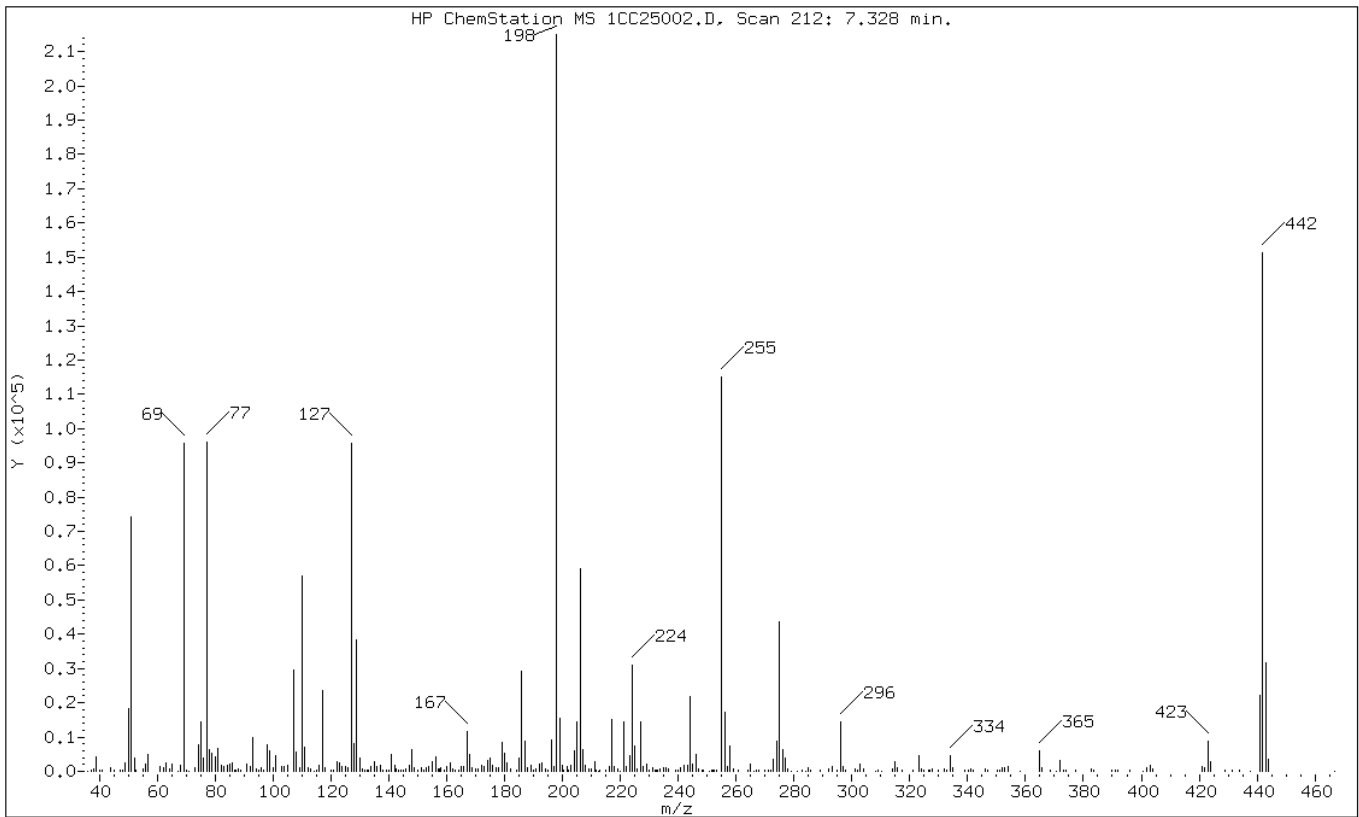
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.55
68	Less than 2.00% of mass 69	0.79 (1.78)
69	Mass 69 relative abundance	44.46
70	Less than 2.00% of mass 69	0.23 (0.52)
127	10.00 - 80.00% of mass 198	44.50
197	Less than 2.00% of mass 198	0.69
442	Greater than 50.00% of mass 198	70.41
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 60.00% of mass 198	20.31
365	Greater than 1.00% of mass 198	2.86
441	Present, but less than mass 443	10.25
443	15.00 - 24.00% of mass 442	14.74 (20.94)

Data File: 1CC25002.D

Date: 25-MAR-2013 12:15

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032513.b\1CC25002.D

Spectrum: HP ChemStation MS 1CC25002.D, Scan 212: 7.328 min.

Location of Maximum: 198.00

Number of points: 309

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	174	125.90	932	201.50	1296	285.10	1088
37.10	191	127.10	95656	202.00	374	285.90	255
38.10	656	128.10	8065	203.10	1646	289.00	457
39.10	4388	129.00	38360	204.00	6045	292.00	557
40.20	403	130.00	3975	205.10	14410	293.10	1255
41.10	187	131.00	556	206.10	59000	295.00	469
44.00	972	131.90	228	207.10	6173	296.00	14431
45.00	277	132.50	324	208.10	1614	297.00	1240
47.10	307	133.00	267	209.10	680	298.00	206
47.90	215	134.00	1353	209.90	661	301.00	627
49.10	2446	135.10	2657	211.10	2719	301.90	225
50.10	18448	136.00	1528	211.70	364	303.00	2106
51.10	74280	137.10	1631	212.30	158	304.10	585
52.10	3785	138.00	379	212.90	262	308.10	159
52.80	261	139.10	324	215.00	388	309.00	403
55.00	545	140.00	307	216.10	1460	310.10	162
56.10	1988	141.00	4863	217.00	14994	314.10	835
57.00	5006	142.00	1649	217.90	1426	315.00	2740
61.00	1267	142.70	845	219.20	632	315.80	947
62.20	1016	143.30	376	220.00	167	317.40	260
63.10	2428	144.10	294	221.10	14265	321.00	482
64.10	585	145.10	376	221.90	1506	323.00	4536
65.10	2008	146.00	835	223.10	4676	324.00	795
67.10	151	147.00	1684	224.10	30856	325.00	195
68.10	1703	148.10	6278	225.10	7220	326.70	220
69.10	95584	149.00	950	226.00	761	327.10	505
70.00	493	150.10	395	227.00	14433	327.90	695
71.10	168	151.20	960	228.00	1312	330.00	234
73.10	995	152.00	410	229.00	2124	331.90	819
74.10	7635	153.00	888	229.90	213	332.90	291
75.10	14560	154.00	1269	231.10	903	334.10	4402
76.10	3795	155.10	2882	232.10	414	335.00	1039
77.10	95912	156.10	4375	232.60	265	338.90	205
78.10	6357	157.00	802	232.90	243	340.10	308
79.00	5194	157.50	803	233.90	630	340.90	615
80.00	4259	158.00	908	235.00	1022	342.10	481
81.00	6521	159.00	402	235.90	1184	345.90	750
82.00	1880	160.00	1556	236.70	639	346.80	427
83.00	1369	161.10	2376	239.10	527	350.10	226
84.10	1696	162.00	741	240.00	246	350.90	479

85.10	2050	163.10	444	240.90	986	351.90	1014
86.00	2330	164.20	405	242.00	1892	352.90	1138
86.70	349	165.10	1561	243.10	1926	354.00	1486
87.30	388	165.90	1514	244.10	21816	358.10	150
88.00	599	167.00	11653	245.00	2171	365.00	6141
89.00	207	168.10	4834	246.00	5005	365.80	1173
91.10	2064	168.90	896	246.90	818	368.70	178
92.10	1279	170.00	645	248.10	358	370.80	150
93.10	9834	170.90	656	248.70	436	372.10	2997
94.10	671	172.00	1699	250.70	153	373.10	293
95.20	404	173.10	1266	251.40	363	374.10	233
95.90	1011	174.00	3269	251.90	387	377.20	382
96.90	270	175.10	3816	252.60	527	382.90	534
98.10	7813	176.00	1652	253.20	526	383.50	231
99.00	5960	176.90	1009	255.00	115168	390.00	526
100.00	1155	178.00	904	256.00	17072	391.10	374
101.10	4430	179.10	8311	257.00	1539	392.00	304
103.10	1307	180.00	5256	258.00	7524	396.00	246
103.90	1497	181.00	2440	258.90	769	400.60	151
105.00	1823	182.20	724	260.80	364	402.00	880
107.10	29408	184.00	459	264.10	481	403.10	1586
108.10	5737	185.00	3741	265.10	2093	404.00	697
109.20	1089	186.00	29352	266.00	152	421.00	1582
110.10	56840	187.10	8638	267.00	186	422.00	1001
111.00	7061	187.90	935	268.00	214	423.00	8697
112.00	930	189.00	1600	270.10	180	423.90	2654
113.00	580	190.10	251	271.00	308	428.80	426
114.20	163	191.00	776	271.90	350	431.60	186
115.00	243	192.00	2227	273.00	3531	434.00	254
116.10	1770	193.10	2335	274.00	8645	437.70	159
117.10	23416	194.00	704	275.00	43656	441.00	22032
118.10	1189	194.90	348	276.00	6192	442.00	151360
120.00	509	196.10	9202	277.00	4029	443.10	31696
121.00	372	197.00	1494	278.00	727	444.00	3494
122.10	2711	198.00	214976	278.90	162	466.80	174
123.10	2347	199.00	15400	281.10	168		
123.90	1407	200.00	1609	283.00	205		
125.00	1570	200.60	454	284.00	158		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\1DB22002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 22-FEB-2013 11:57
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022213.b\d-dftpp198.m
 Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.477	8.532	-0.055	198	100672			50.00-	0.00	100.00
8.477	8.532	-0.055	51	47200			10.00-	80.00	46.88
8.477	8.532	-0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	69	46864			0.00-	0.00	46.55
8.477	8.532	-0.055	70	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	127	51248			10.00-	80.00	50.91
8.477	8.532	-0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.477	8.532	-0.055	442	64976			50.00-	0.00	64.54
8.477	8.532	-0.055	199	7983			5.00-	9.00	7.93
8.477	8.532	-0.055	275	25312			10.00-	60.00	25.14
8.477	8.532	-0.055	365	2913			1.00-	0.00	2.89
8.477	8.532	-0.055	441	10444			0.01-	99.99	78.40
8.477	8.532	-0.055	443	13322			15.00-	24.00	20.50

Data File: 1DB22002.D

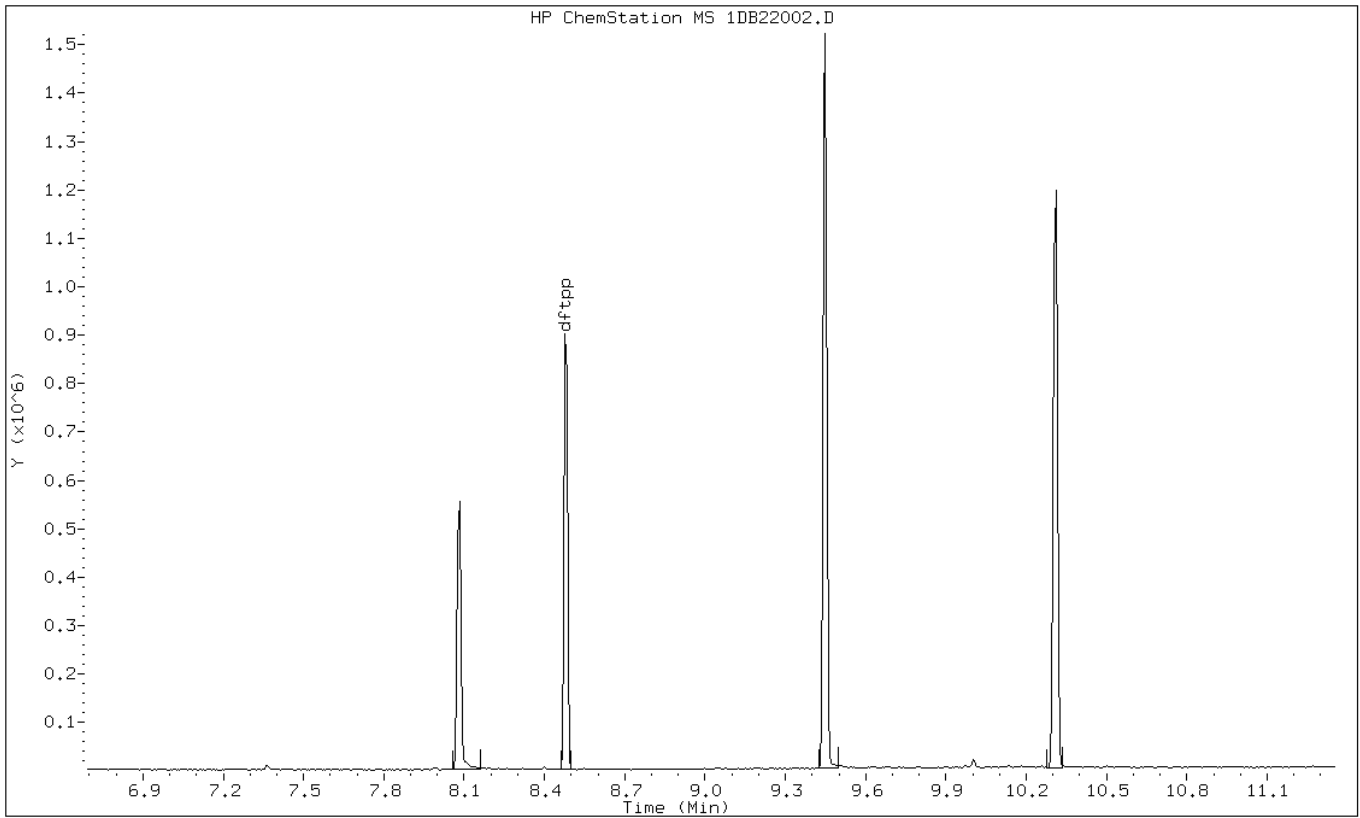
Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

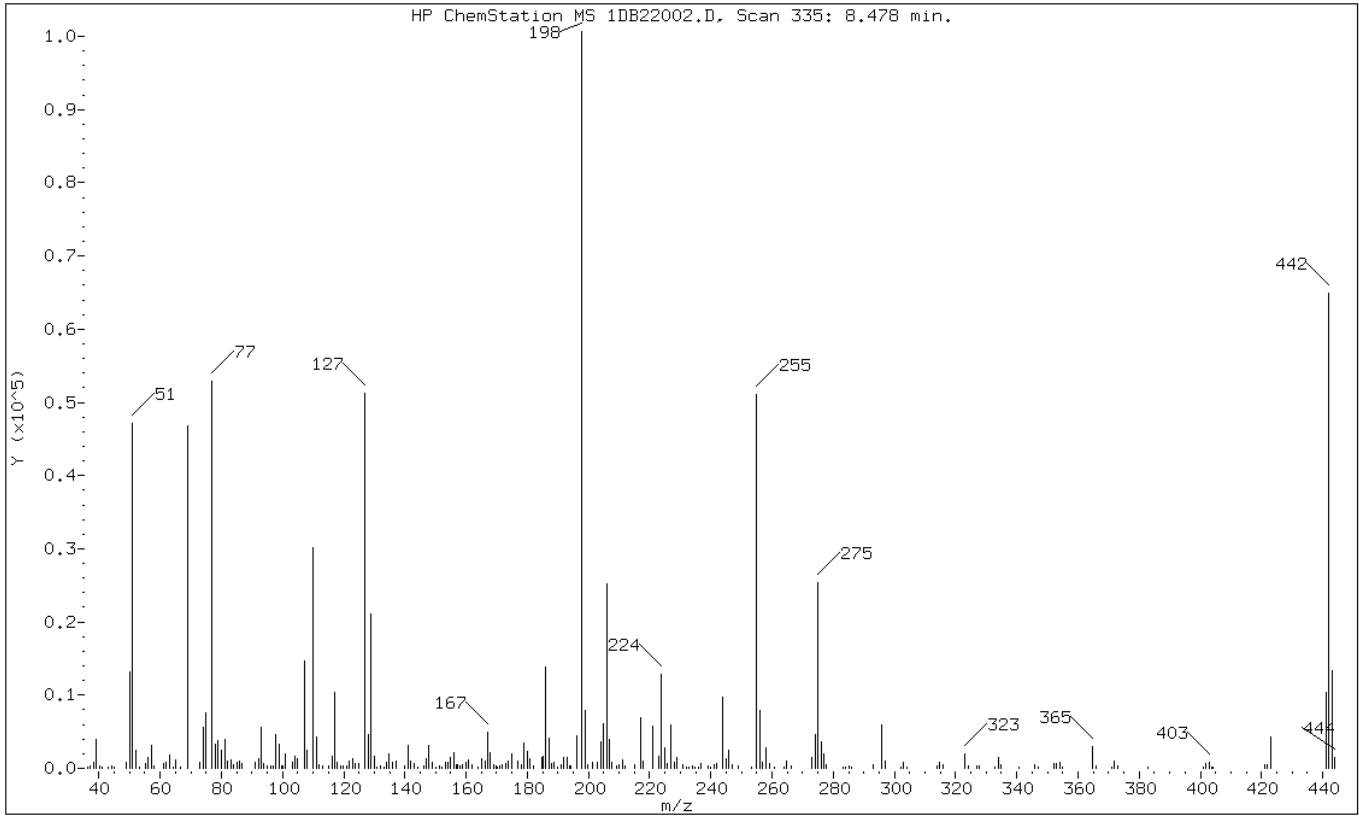
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	46.88
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.55
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	64.54
199	5.00 - 9.00% of mass 198	7.93
275	10.00 - 60.00% of mass 198	25.14
365	Greater than 1.00% of mass 198	2.89
441	Present, but less than mass 443	10.37
443	15.00 - 24.00% of mass 442	13.23 (20.50)

Data File: 1DB22002.D

Date: 22-FEB-2013 11:57

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022213_pahIC.b\1DB22002.D

Spectrum: HP ChemStation MS 1DB22002.D, Scan 335: 8.478 min.

Location of Maximum: 197.90

Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.30	197	115.20	371	178.90	3443	257.00	823
37.00	283	116.10	1643	179.90	2267	257.90	2744
38.10	840	116.90	10345	180.90	1276	259.10	649
39.00	4029	117.90	808	182.10	256	260.60	181
40.10	307	118.90	290	184.90	1563	263.80	188
41.10	246	119.90	325	185.10	1576	264.90	958
43.00	222	120.80	293	186.00	13856	266.30	296
44.00	324	121.90	933	187.00	4060	273.10	1415
45.00	187	123.10	1272	188.00	700	274.00	4623
48.90	792	123.90	596	188.90	880	274.90	25312
50.00	13120	124.90	657	190.00	174	276.00	3568
51.00	47200	127.00	51248	191.10	471	276.90	1899
52.00	2399	128.10	4539	191.80	1499	277.90	482
53.20	206	129.00	21144	193.10	1492	283.10	239
55.10	588	129.90	1625	193.80	298	284.00	158
56.00	1454	130.90	232	194.10	273	285.10	390
57.00	3139	132.00	372	196.00	4461	285.90	196
58.00	280	133.10	193	197.90	100672	292.90	454
61.00	695	134.00	786	198.90	7983	295.90	5925
62.00	830	134.90	1968	199.80	431	296.90	1054
63.00	1811	136.00	819	201.40	803	302.00	199
64.10	190	137.00	946	202.90	742	303.00	877
65.00	1083	139.80	261	204.00	3564	304.10	237
66.80	165	140.90	3120	204.90	6035	314.00	370
69.00	46864	141.90	907	206.00	25272	314.90	811
73.00	834	143.00	599	207.00	3977	316.10	563
74.00	5603	144.10	205	207.80	855	323.00	2019
75.00	7619	146.20	403	209.00	292	324.00	399
77.00	52952	147.10	1400	209.90	465	326.80	356
78.10	3264	147.90	3115	211.10	1207	327.90	285
79.00	3723	149.00	769	211.80	371	333.00	245
80.00	2540	150.00	204	215.00	516	334.00	1434
81.00	3932	151.20	331	216.90	6871	334.90	449
82.00	1066	151.90	245	217.80	933	340.80	236
83.00	1122	152.20	196	221.00	5742	345.80	434
84.00	448	153.10	780	222.90	1718	346.90	155
85.00	839	154.10	760	223.90	12894	352.00	582
85.90	920	154.90	1455	225.00	2847	352.90	693
86.10	903	156.00	2222	225.80	583	354.10	794
86.90	664	156.80	423	226.90	5900	355.00	242

90.90	879	157.30	413	227.90	895	364.90	2913
92.20	1301	158.00	406	229.00	1499	365.90	407
92.90	5556	158.90	453	230.90	530	370.90	239
93.90	654	159.90	786	231.90	178	371.90	1022
95.00	306	160.80	1173	233.00	190	373.00	407
+-----+							
96.00	333	161.90	523	234.00	288	382.90	223
96.80	249	163.80	175	234.80	220	401.00	178
97.90	4532	164.90	1380	235.80	168	401.90	599
99.00	3290	166.10	1007	236.80	623	403.00	796
99.90	302	167.00	4901	239.10	325	403.80	179
+-----+							
100.10	306	167.90	2117	240.00	221	404.00	178
101.00	1934	169.00	519	241.00	419	421.00	483
103.10	838	169.90	270	242.00	691	422.00	527
103.90	1680	170.30	232	244.00	9770	422.90	4204
104.90	1266	170.90	273	245.00	1289	441.00	10444
+-----+							
107.00	14642	171.80	412	245.90	2407	442.00	64976
107.90	2420	172.90	636	246.90	412	443.00	13322
110.00	30136	173.90	999	249.10	305	443.90	1486
111.00	4275	175.00	1902	253.20	215		
112.00	423	176.70	1047	254.90	51056		
+-----+							
112.90	308	177.90	412	255.90	7928		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 26-MAR-2013 10:15
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\d-dftpp198.m
 Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.422	8.532	-0.110	198	113928			50.00-	0.00	100.00
8.422	8.532	-0.110	51	47012			10.00-	80.00	41.26
8.422	8.532	-0.110	68	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	69	50036			0.00-	0.00	43.92
8.422	8.532	-0.110	70	275			0.00-	2.00	0.55
8.422	8.532	-0.110	127	54804			10.00-	80.00	48.10
8.422	8.532	-0.110	197	0	0.0	0.0	0.00-	2.00	0.00
8.422	8.532	-0.110	442	90492			50.00-	0.00	79.43
8.422	8.532	-0.110	199	8045			5.00-	9.00	7.06
8.422	8.532	-0.110	275	32064			10.00-	60.00	28.14
8.422	8.532	-0.110	365	3785			1.00-	0.00	3.32
8.422	8.532	-0.110	441	9744			0.01-	99.99	54.19
8.422	8.532	-0.110	443	17980			15.00-	24.00	19.87

Data File: 1DC26002.D

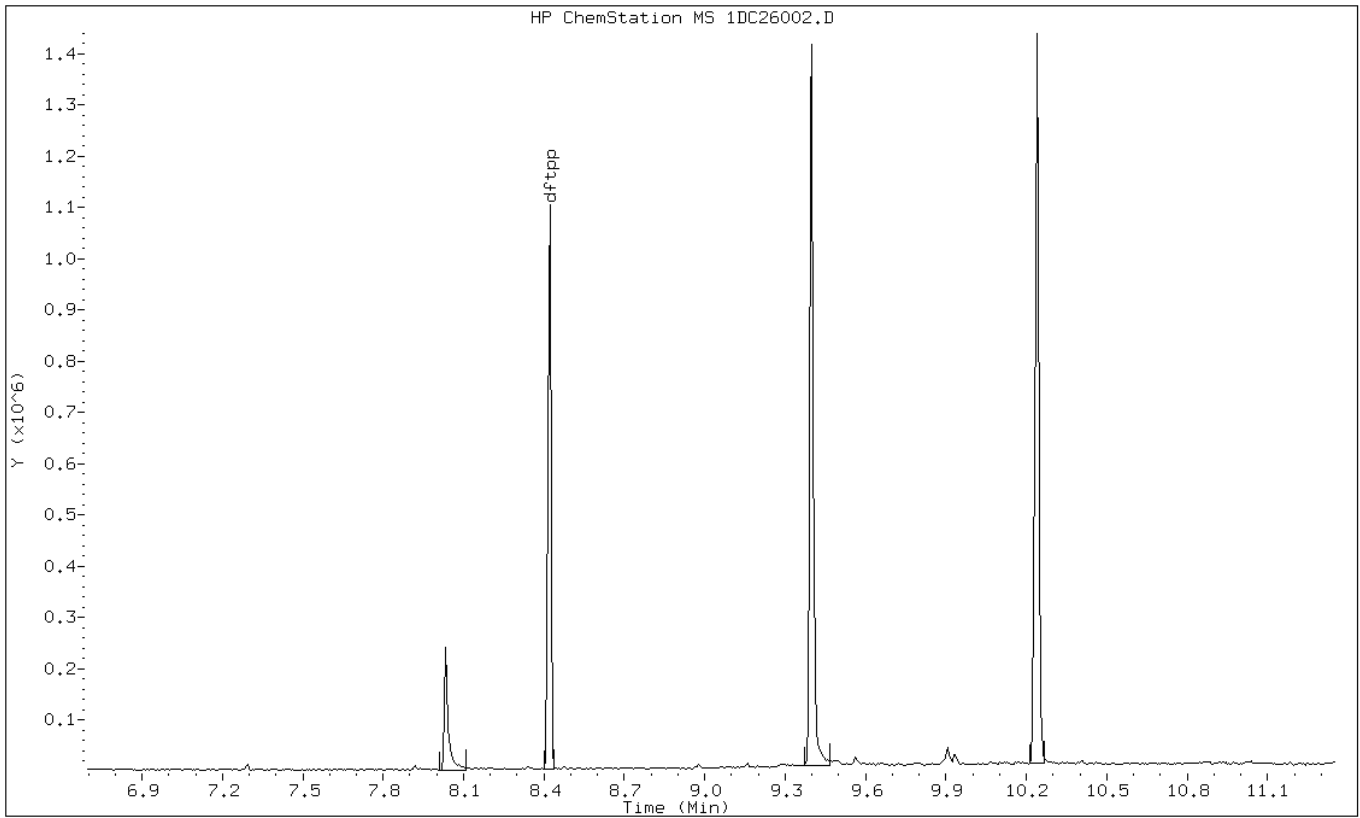
Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

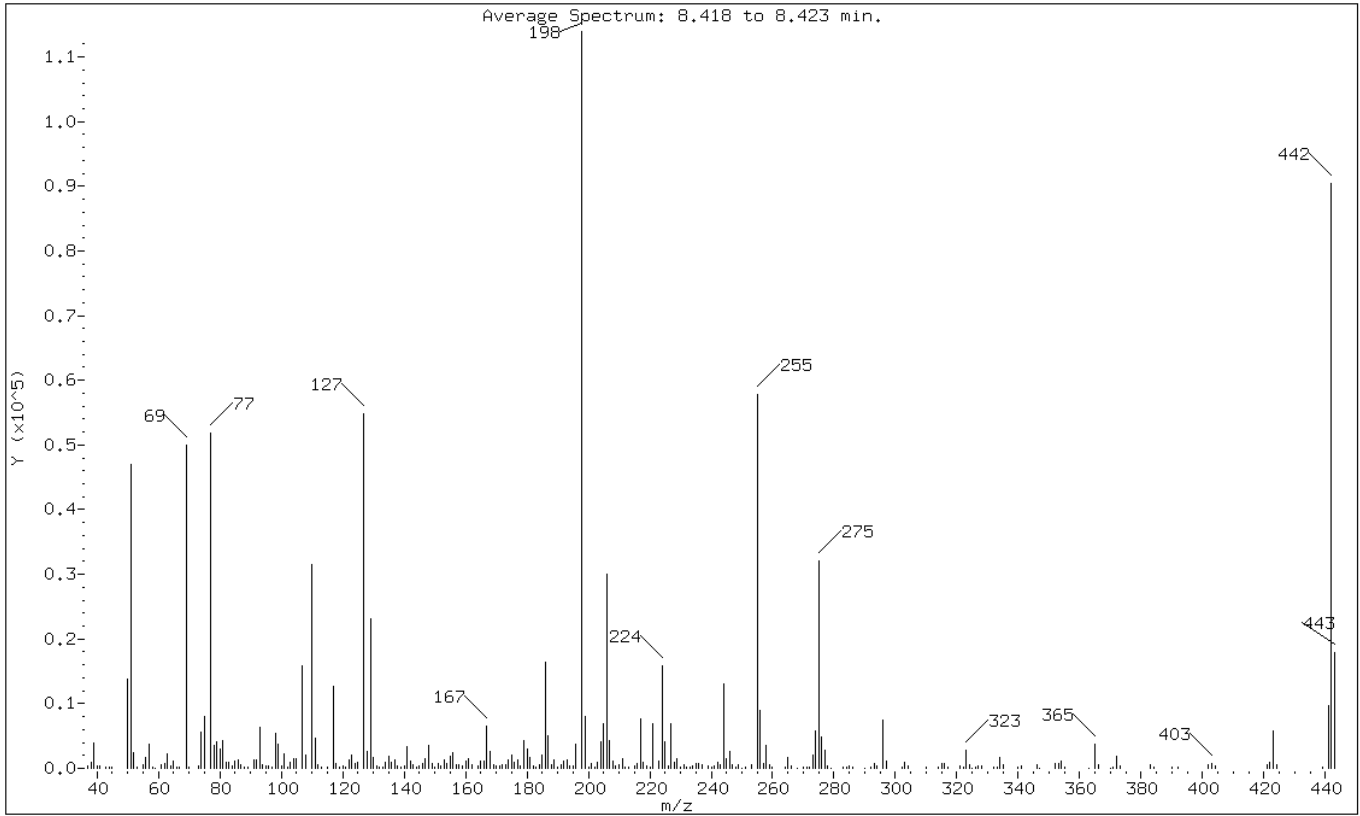
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.26
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.92
70	Less than 2.00% of mass 69	0.24 (0.55)
127	10.00 - 80.00% of mass 198	48.10
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	79.43
199	5.00 - 9.00% of mass 198	7.06
275	10.00 - 60.00% of mass 198	28.14
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	8.55
443	15.00 - 24.00% of mass 442	15.78 (19.87)

Data File: 1DC26002.D

Date: 26-MAR-2013 10:15

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D032613.b\1DC26002.D

Spectrum: Average Spectrum: 8.418 to 8.423 min.

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	361	122.00	1307	193.00	1296	273.00	2113
38.00	920	123.00	1959	194.00	419	274.00	5703
39.00	3938	124.00	758	195.00	405	275.00	32064
40.00	389	125.00	899	196.00	3738	276.00	4834
41.00	414	127.00	54800	198.00	113928	277.00	2823
43.00	241	128.00	2687	199.00	8045	278.00	340
44.00	195	129.00	23184	200.00	248	279.00	82
45.00	112	130.00	1715	201.00	810	283.00	265
50.00	13850	131.00	444	202.00	146	284.00	197
51.00	47008	132.00	241	203.00	881	285.00	364
52.00	2501	133.00	156	204.00	4150	286.00	188
53.00	202	134.00	847	205.00	6987	290.00	86
55.00	637	135.00	1872	206.00	30048	292.00	131
56.00	1760	136.00	879	207.00	4290	293.00	761
57.00	3677	137.00	1213	208.00	1163	294.00	323
58.00	275	138.00	305	209.00	386	296.00	7461
59.00	87	139.00	170	210.00	526	297.00	1040
61.00	536	140.00	360	211.00	1499	302.00	150
62.00	753	141.00	3334	212.00	269	303.00	891
63.00	2255	142.00	1065	213.00	94	304.00	389
64.00	335	143.00	620	215.00	425	310.00	107
65.00	1083	144.00	244	216.00	793	314.00	222
66.00	181	145.00	379	217.00	7624	315.00	684
67.00	277	146.00	784	218.00	974	316.00	718
69.00	50032	147.00	1583	219.00	324	317.00	107
70.00	275	148.00	3498	220.00	137	321.00	397
73.00	399	149.00	733	221.00	6808	322.00	230
74.00	5522	150.00	255	223.00	1106	323.00	2784
75.00	8100	151.00	730	224.00	15759	324.00	505
77.00	51744	152.00	344	225.00	4152	325.00	80
78.00	3566	153.00	1262	226.00	365	326.00	94
79.00	4087	154.00	711	227.00	6961	327.00	374
80.00	3034	155.00	1857	228.00	1006	328.00	418
81.00	4257	156.00	2338	229.00	1482	332.00	266
82.00	870	157.00	641	230.00	142	333.00	265
83.00	877	158.00	581	231.00	502	334.00	1586
84.00	366	159.00	450	232.00	129	335.00	501
85.00	1149	160.00	1147	233.00	98	340.00	121
86.00	1222	161.00	1540	234.00	399	341.00	324
87.00	542	162.00	496	235.00	713	346.00	539

88.00	166	164.00	291	236.00	786	347.00	77
89.00	204	165.00	1061	237.00	534	352.00	702
91.00	1303	166.00	1166	239.00	425	353.00	762
92.00	1246	167.00	6463	240.00	120	354.00	1069
93.00	6362	168.00	2585	241.00	416	355.00	165
94.00	478	169.00	500	242.00	953	363.00	81
95.00	300	170.00	302	243.00	553	365.00	3785
96.00	346	171.00	286	244.00	13029	366.00	590
97.00	155	172.00	598	245.00	1448	370.00	77
98.00	5337	173.00	626	246.00	2569	371.00	136
99.00	3681	174.00	1298	247.00	513	372.00	1853
100.00	457	175.00	1975	248.00	124	373.00	337
101.00	2327	176.00	847	249.00	485	383.00	524
102.00	212	177.00	1357	250.00	82	384.00	126
103.00	948	178.00	462	251.00	113	390.00	181
104.00	1416	179.00	4221	253.00	515	392.00	109
105.00	1487	180.00	3014	255.00	57712	402.00	612
107.00	15909	181.00	1653	256.00	9004	403.00	725
108.00	2141	182.00	345	257.00	734	404.00	326
110.00	31472	183.00	159	258.00	3632	421.00	580
111.00	4750	184.00	527	259.00	625	422.00	852
112.00	580	185.00	2024	260.00	196	423.00	5819
113.00	268	186.00	16496	264.00	169	424.00	517
115.00	272	187.00	5044	265.00	1663	439.00	129
117.00	12642	188.00	649	266.00	285	441.00	9744
118.00	806	189.00	1373	268.00	75	442.00	90488
119.00	210	190.00	194	270.00	114	443.00	17976
120.00	290	191.00	514	271.00	200		
121.00	230	192.00	1188	272.00	272		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135556/1-A
 Matrix: Solid Lab File ID: 1CC21032.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.40 (g) Date Analyzed: 03/21/2013 20:27
 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.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	97	U	97	19
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	5.9
191-24-2	Benzo[g,h,i]perylene	19	U	19	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	19	U	19	4.0
206-44-0	Fluoranthene	19	U	19	3.9
86-73-7	Fluorene	19	U	19	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	19	U	19	6.9
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	6.9
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	19	U	19	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032113.b\1CC21032.D
 Lab Smp Id: mb 660-135556/1-a
 Inj Date : 21-MAR-2013 20:27
 Operator : SCC
 Smp Info : mb 660-135556/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 31 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.400	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	851567	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	663430	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1242632	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	163790	8.73005	566.8866
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1292802	40.0000	
* 23 Perylene-d12	264		8.904	8.898	(1.000)	1269070	40.0000	

Data File: 1CC21032.D

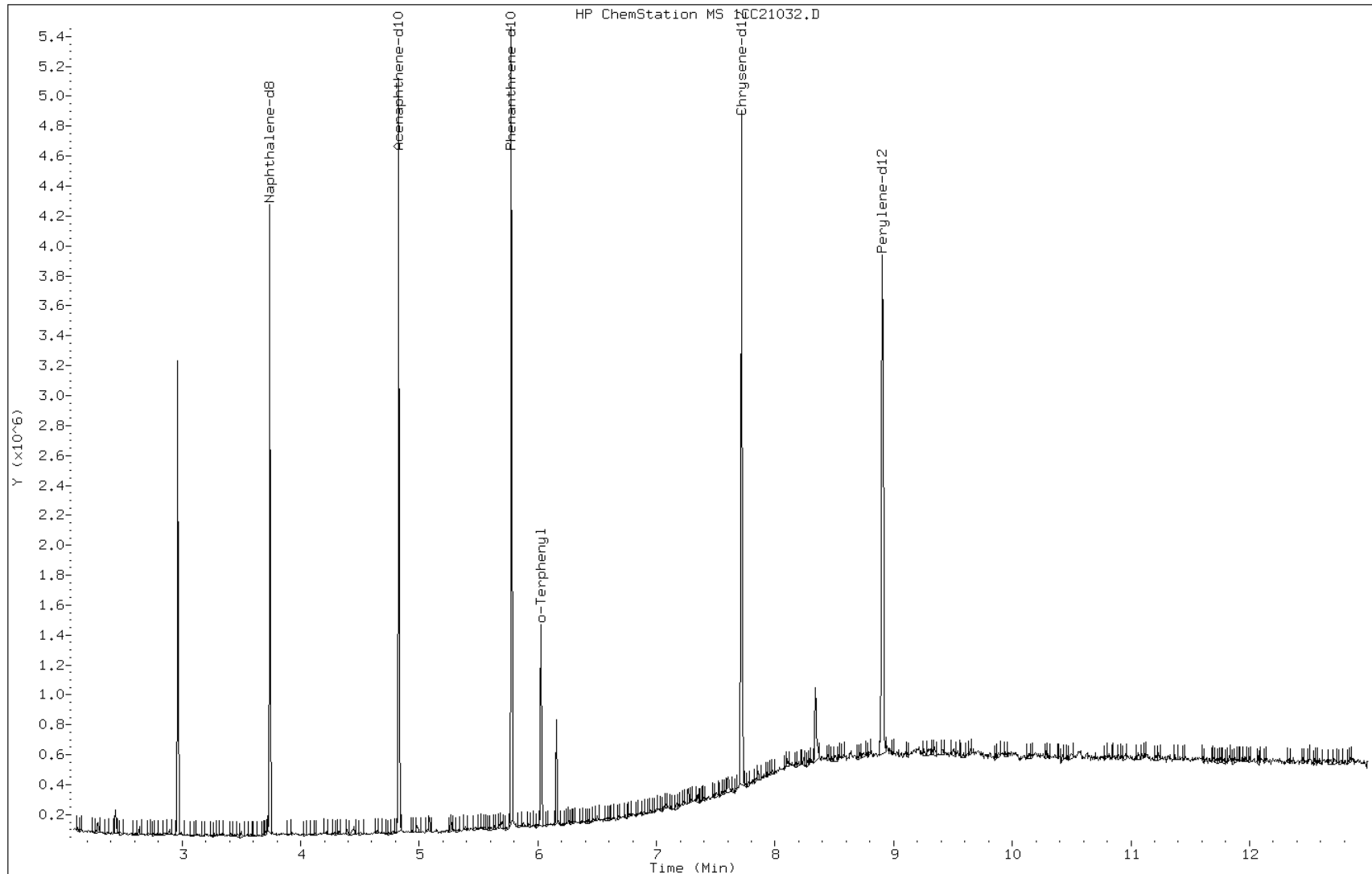
Date: 21-MAR-2013 20:27

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135556/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135570/1-A
 Matrix: Solid Lab File ID: 1CC21007.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 14.97(g) Date Analyzed: 03/21/2013 12:47
 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.: 135643 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	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21007.D
 Lab Smp Id: mb 660-135570/1-a
 Inj Date : 21-MAR-2013 12:47
 Operator : SCC
 Smp Info : mb 660-135570/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	816644	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	613061	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1179184	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	132290	7.43049	496.3587
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1457692	40.0000	
* 23 Perylene-d12	264		8.897	8.898	(1.000)	1511583	40.0000	

Data File: 1CC21007.D

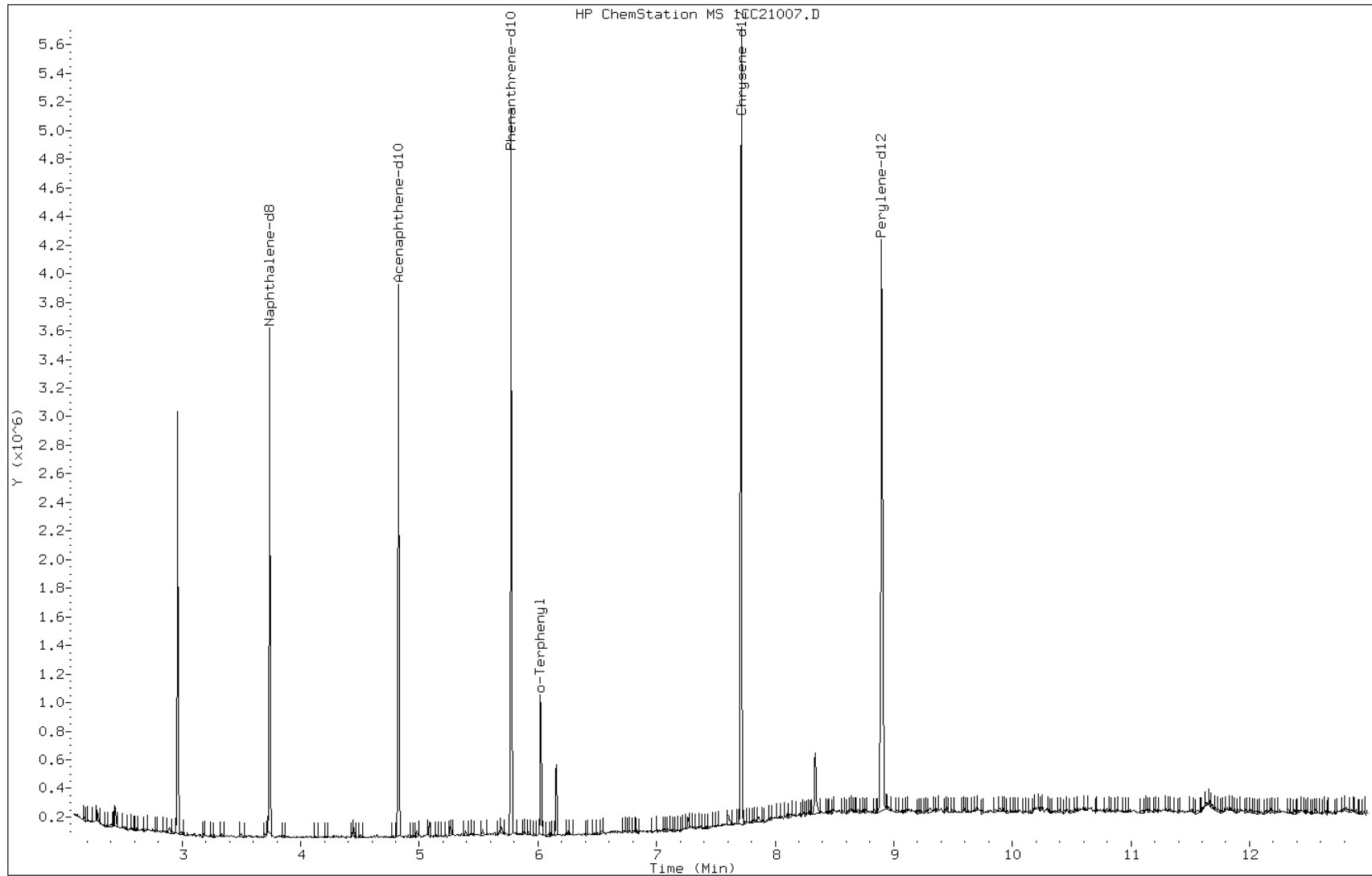
Date: 21-MAR-2013 12:47

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135570/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135556/2-A
 Matrix: Solid Lab File ID: 1CC21033.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.05(g) Date Analyzed: 03/21/2013 20:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	456		100	20
208-96-8	Acenaphthylene	518		40	5.0
120-12-7	Anthracene	519		8.4	4.2
56-55-3	Benzo[a]anthracene	537		8.0	3.9
50-32-8	Benzo[a]pyrene	503		10	5.2
205-99-2	Benzo[b]fluoranthene	555		12	6.1
191-24-2	Benzo[g,h,i]perylene	382		20	4.4
207-08-9	Benzo[k]fluoranthene	529		8.0	3.6
218-01-9	Chrysene	510		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	458		20	4.1
206-44-0	Fluoranthene	507		20	4.0
86-73-7	Fluorene	501		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	445		20	7.1
90-12-0	1-Methylnaphthalene	600		40	4.4
91-57-6	2-Methylnaphthalene	543		40	7.1
91-20-3	Naphthalene	558		40	4.4
85-01-8	Phenanthrene	499		8.0	3.9
129-00-0	Pyrene	572		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21033.D
 Lab Smp Id: lcs 660-135556/2-a
 Inj Date : 21-MAR-2013 20:46
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-135556/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 32 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	931773	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	775277	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1425754	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	161720	7.51262	499.1771
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1511839	40.0000	
* 23 Perylene-d12	264		8.903	8.898	(1.000)	1425427	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	203793	8.40121	558.2200
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	132219	8.17132	542.9447
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	133066	9.02945	599.9631
5 Acenaphthylene	152		4.739	4.739	(0.982)	243791	7.79963	518.2479
7 Acenaphthene	154		4.845	4.845	(1.004)	133233	6.85785	455.6710
9 Fluorene	166		5.168	5.162	(1.071)	185255	7.53989	500.9891
11 Phenanthrene	178		5.792	5.792	(1.003)	309786	7.51424	499.2852
12 Anthracene	178		5.827	5.821	(1.009)	314640	7.80371	518.5191

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.933	5.933	(1.028)	284937	7.95003	528.2409
15 Fluoranthene	202	6.627	6.627	(1.148)	344658	7.63396	507.2397
16 Pyrene	202	6.798	6.792	(0.880)	349861	8.61122	572.1741
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	352708	8.08322	537.0909
19 Chrysene	228	7.739	7.733	(1.002)	335472	7.68244	510.4611
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.961)	311408	8.35956	555.4527
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.964)	304139	7.95874	528.8199
22 Benzo(a)pyrene	252	8.850	8.845	(0.994)	273983	7.57202	503.1242
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	228143	6.70249	445.3483(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	229560	6.89484	458.1288
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.170)	204830	5.75249	382.2255

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21033.D

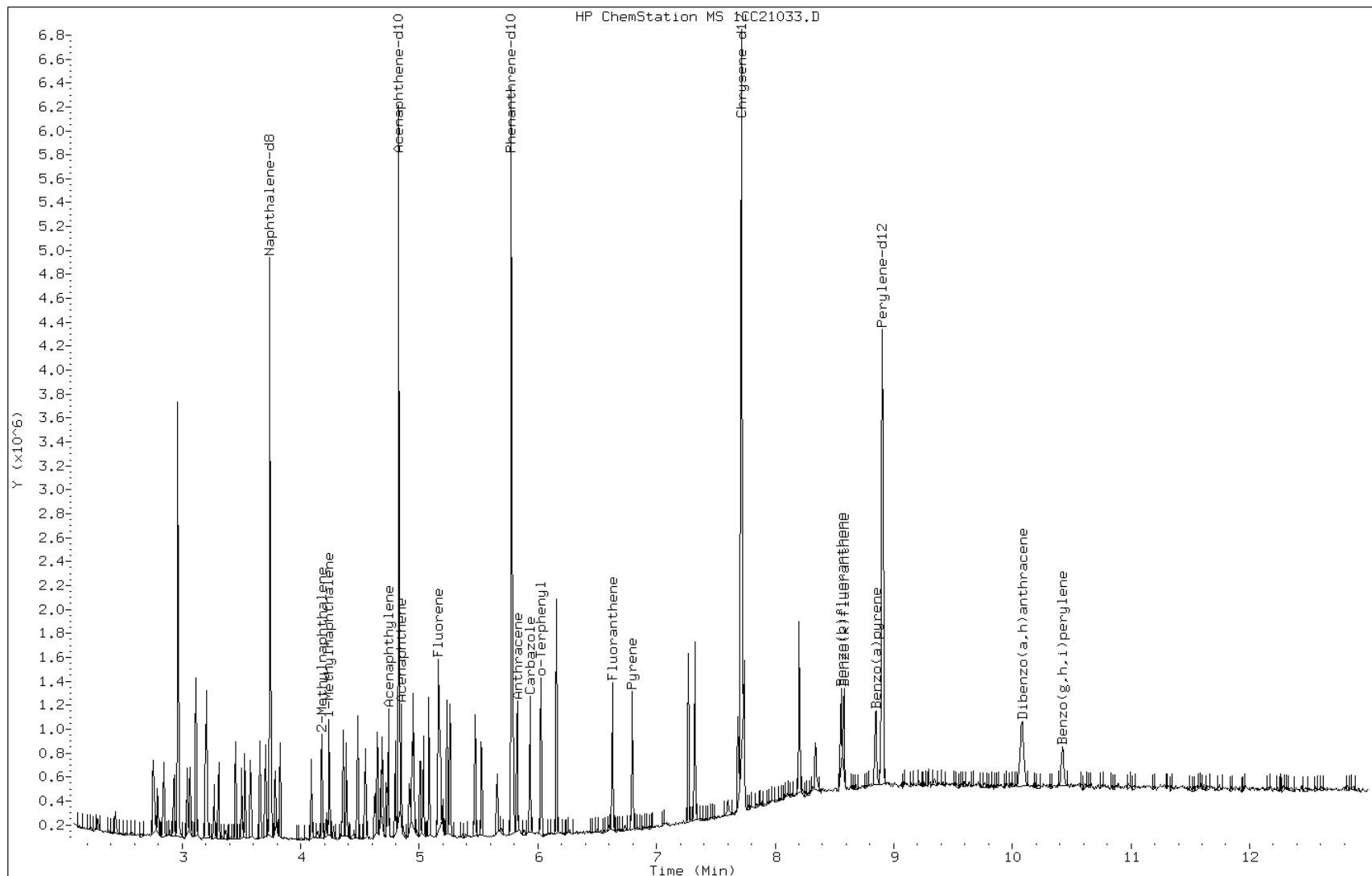
Date: 21-MAR-2013 20:46

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135556/2-a

Operator: SCC

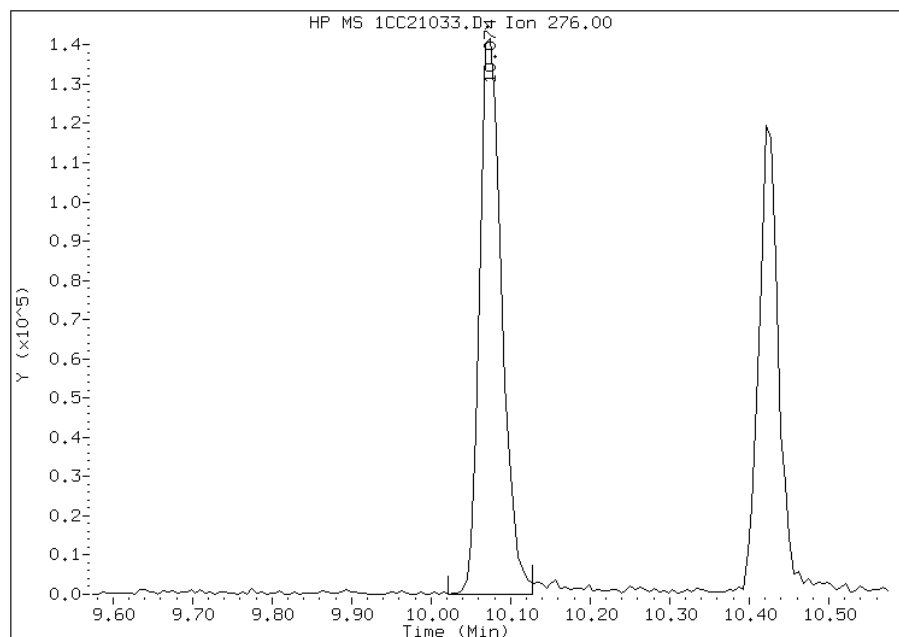


Manual Integration Report

Data File: 1CC21033.D
Inj. Date and Time: 21-MAR-2013 20:46
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

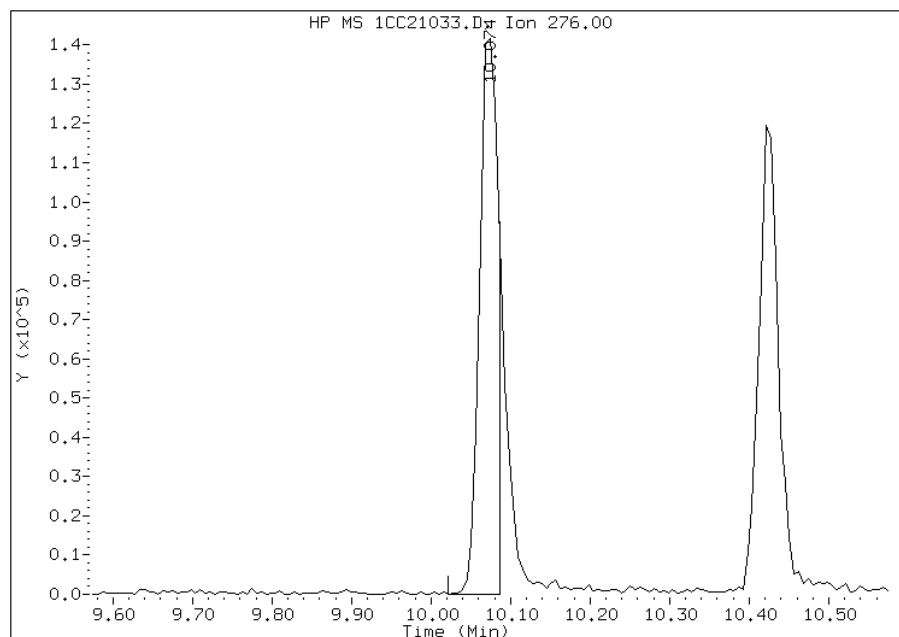
Processing Integration Results

RT: 10.07
Response: 275144
Amount: 8
Conc: 537



Manual Integration Results

RT: 10.07
Response: 228143
Amount: 7
Conc: 445



Manually Integrated By: cantins
Modification Date: 25-Mar-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135570/2-A
 Matrix: Solid Lab File ID: 1CC21008.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 14.98(g) Date Analyzed: 03/21/2013 13:05
 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.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	511		100	20
208-96-8	Acenaphthylene	539		40	5.0
120-12-7	Anthracene	527		8.4	4.2
56-55-3	Benzo[a]anthracene	533		8.0	3.9
50-32-8	Benzo[a]pyrene	511		10	5.2
205-99-2	Benzo[b]fluoranthene	544		12	6.1
191-24-2	Benzo[g,h,i]perylene	514		20	4.4
207-08-9	Benzo[k]fluoranthene	521		8.0	3.6
218-01-9	Chrysene	499		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	532		20	4.1
206-44-0	Fluoranthene	573		20	4.0
86-73-7	Fluorene	547		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	506		20	7.1
90-12-0	1-Methylnaphthalene	596		40	4.4
91-57-6	2-Methylnaphthalene	524		40	7.1
91-20-3	Naphthalene	529		40	4.4
85-01-8	Phenanthrene	529		8.0	3.9
129-00-0	Pyrene	543		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21008.D
 Lab Smp Id: lcs 660-135570/2-a
 Inj Date : 21-MAR-2013 13:05
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-135570/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 7 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	789098	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	623234	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1182448	40.0000	
\$ 14 o-Terphenyl	230		6.021	6.027	(1.043)	132029	7.39536	493.6822
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1499600	40.0000	
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1536093	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	162675	7.91868	528.6166
3 2-Methylnaphthalene	142		4.175	4.180	(1.116)	107634	7.85465	524.3425
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	111370	8.92363	595.7026
5 Acenaphthylene	152		4.739	4.739	(0.982)	202756	8.06930	538.6716
7 Acenaphthene	154		4.845	4.845	(1.004)	119651	7.66123	511.4302
9 Fluorene	166		5.163	5.162	(1.069)	161982	8.20101	547.4640
11 Phenanthrene	178		5.786	5.792	(1.002)	270803	7.92026	528.7223
12 Anthracene	178		5.821	5.821	(1.008)	263942	7.89330	526.9223

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.927	5.933	(1.026)	252341	8.48926	566.7066
15 Fluoranthene	202	6.627	6.627	(1.148)	321424	8.58425	573.0472
16 Pyrene	202	6.792	6.792	(0.880)	328061	8.14055	543.4281
17 Benzo(a)anthracene	228	7.704	7.709	(0.998)	345354	7.97928	532.6621
19 Chrysene	228	7.733	7.733	(1.002)	323991	7.48008	499.3375
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	327377	8.15510	544.3994
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	321131	7.79798	520.5591
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	298409	7.65293	510.8762
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.068	(1.131)	277935	7.57705	505.8108(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.133)	285848	7.96692	531.8372
26 Benzo(g,h,i)perylene	276	10.409	10.421	(1.170)	295402	7.69845	513.9154

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21008.D

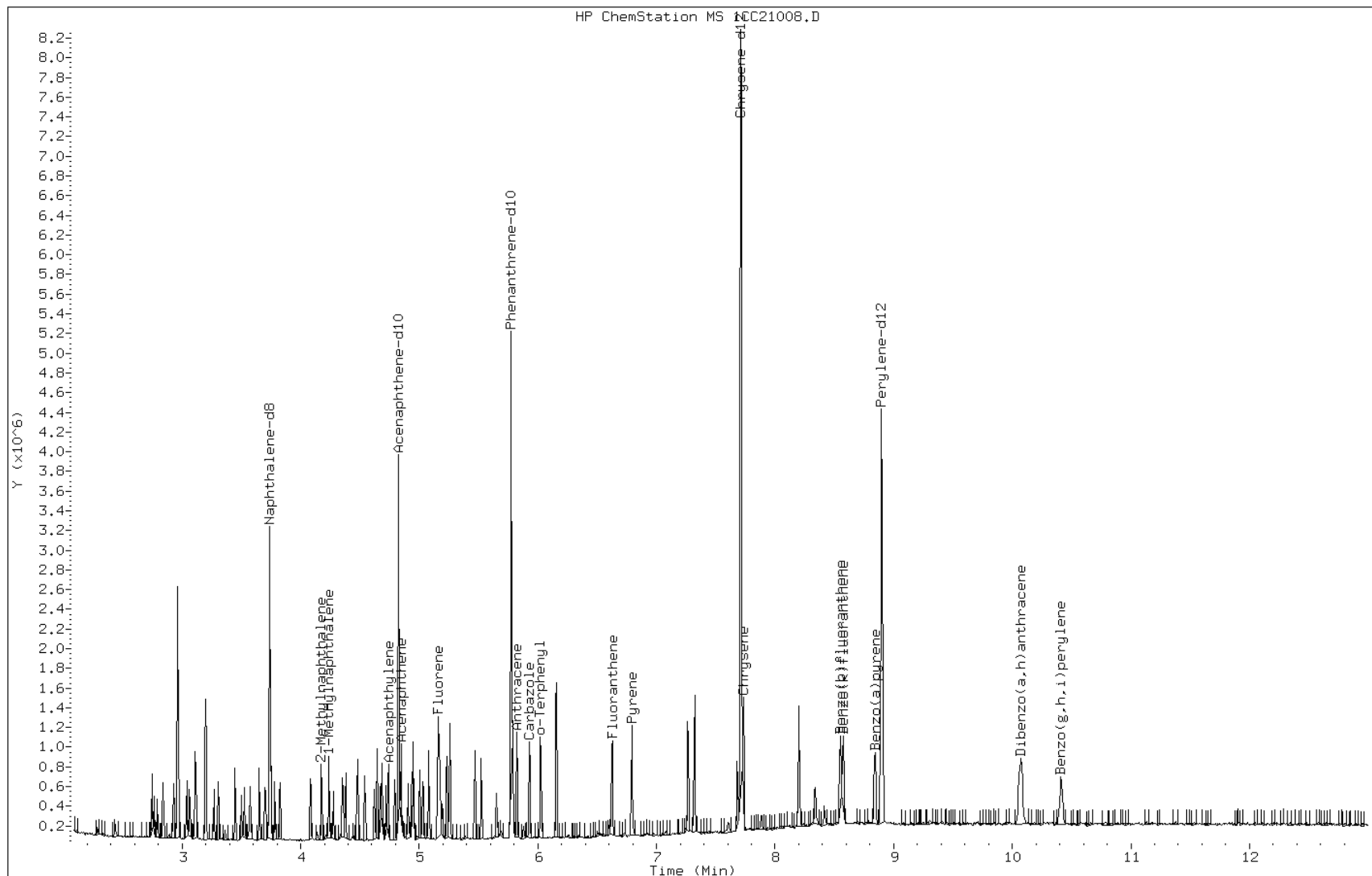
Date: 21-MAR-2013 13:05

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135570/2-a

Operator: SCC

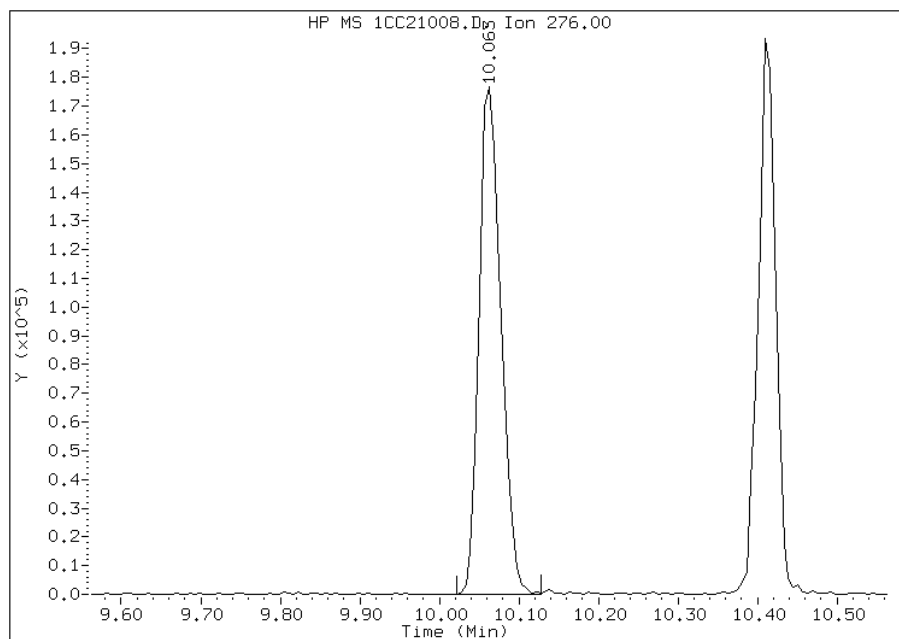


Manual Integration Report

Data File: 1CC21008.D
Inj. Date and Time: 21-MAR-2013 13:05
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

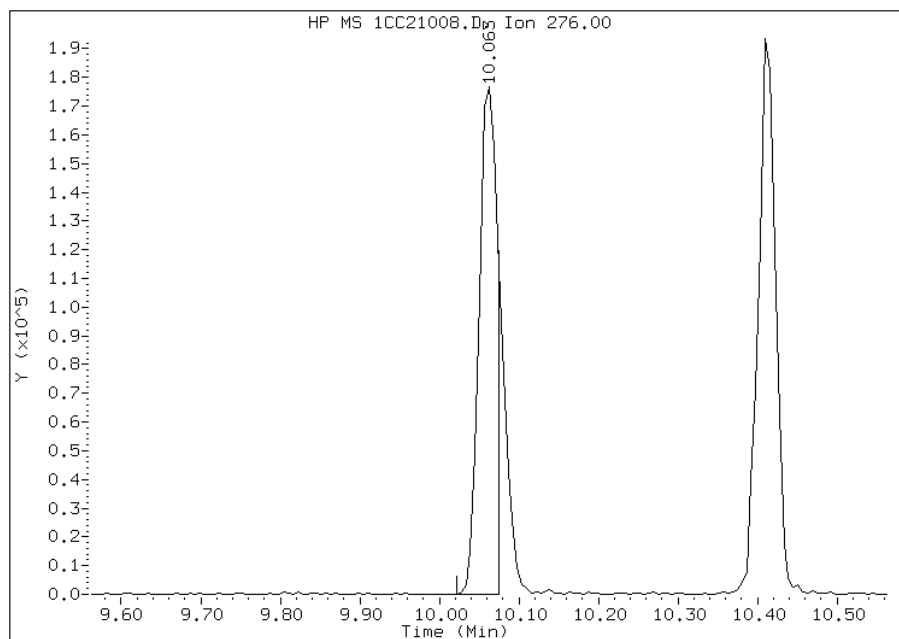
Processing Integration Results

RT: 10.06
Response: 335094
Amount: 9
Conc: 610



Manual Integration Results

RT: 10.06
Response: 277935
Amount: 8
Conc: 506



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: 680-88298-A-21-B MS
 Matrix: Solid Lab File ID: 1CC21037.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.14 (g) Date Analyzed: 03/21/2013 21:59
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 31.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	647		140	29
208-96-8	Acenaphthylene	672		58	7.2
120-12-7	Anthracene	719		12	6.1
56-55-3	Benzo[a]anthracene	740		12	5.6
50-32-8	Benzo[a]pyrene	685		15	7.5
205-99-2	Benzo[b]fluoranthene	847		18	8.8
191-24-2	Benzo[g,h,i]perylene	533		29	6.4
207-08-9	Benzo[k]fluoranthene	779		12	5.2
218-01-9	Chrysene	745		13	6.5
53-70-3	Dibenz(a,h)anthracene	599		29	5.9
206-44-0	Fluoranthene	776		29	5.8
86-73-7	Fluorene	655		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	561		29	10
90-12-0	1-Methylnaphthalene	752		58	6.4
91-57-6	2-Methylnaphthalene	692		58	10
91-20-3	Naphthalene	683		58	6.4
85-01-8	Phenanthrene	768		12	5.6
129-00-0	Pyrene	856		29	5.4

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\1C032113.b\1CC21037.D
 Lab Smp Id: 680-88298-a-21-b ms
 Inj Date : 21-MAR-2013 21:59
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88298-a-21-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 36 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.140	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	984901	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	791260	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1392985	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	138628	6.59138	435.3621
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1507020	40.0000	
* 23 Perylene-d12	264		8.904	8.898	(1.000)	1369916	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	181567	7.08120	467.7149
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	122747	7.17673	474.0245
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	121426	7.79513	514.8697
5 Acenaphthylene	152		4.739	4.739	(0.982)	222329	6.96932	460.3247
7 Acenaphthene	154		4.845	4.845	(1.004)	132987	6.70692	442.9932
9 Fluorene	166		5.169	5.162	(1.071)	170334	6.79257	448.6503
11 Phenanthrene	178		5.792	5.792	(1.003)	320749	7.96319	525.9700
12 Anthracene	178		5.827	5.821	(1.009)	293561	7.45219	492.2185

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.933	5.933	(1.027)	263027	7.51135	496.1263
15 Fluoranthene	202	6.627	6.627	(1.148)	355105	8.05038	531.7291
16 Pyrene	202	6.798	6.792	(0.880)	359614	8.87958	586.4978
17 Benzo(a)anthracene	228	7.710	7.709	(0.998)	333946	7.67771	507.1143
19 Chrysene	228	7.739	7.733	(1.002)	336077	7.72091	509.9673
20 Benzo(b)fluoranthene	252	8.557	8.551	(0.961)	314398	8.78182	580.0411
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.964)	296790	8.08114	533.7607
22 Benzo(a)pyrene	252	8.851	8.845	(0.994)	247055	7.10449	469.2528
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	190306	5.81745	384.2437(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	198818	6.21348	410.4013
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.171)	189088	5.52558	364.9654

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21037.D

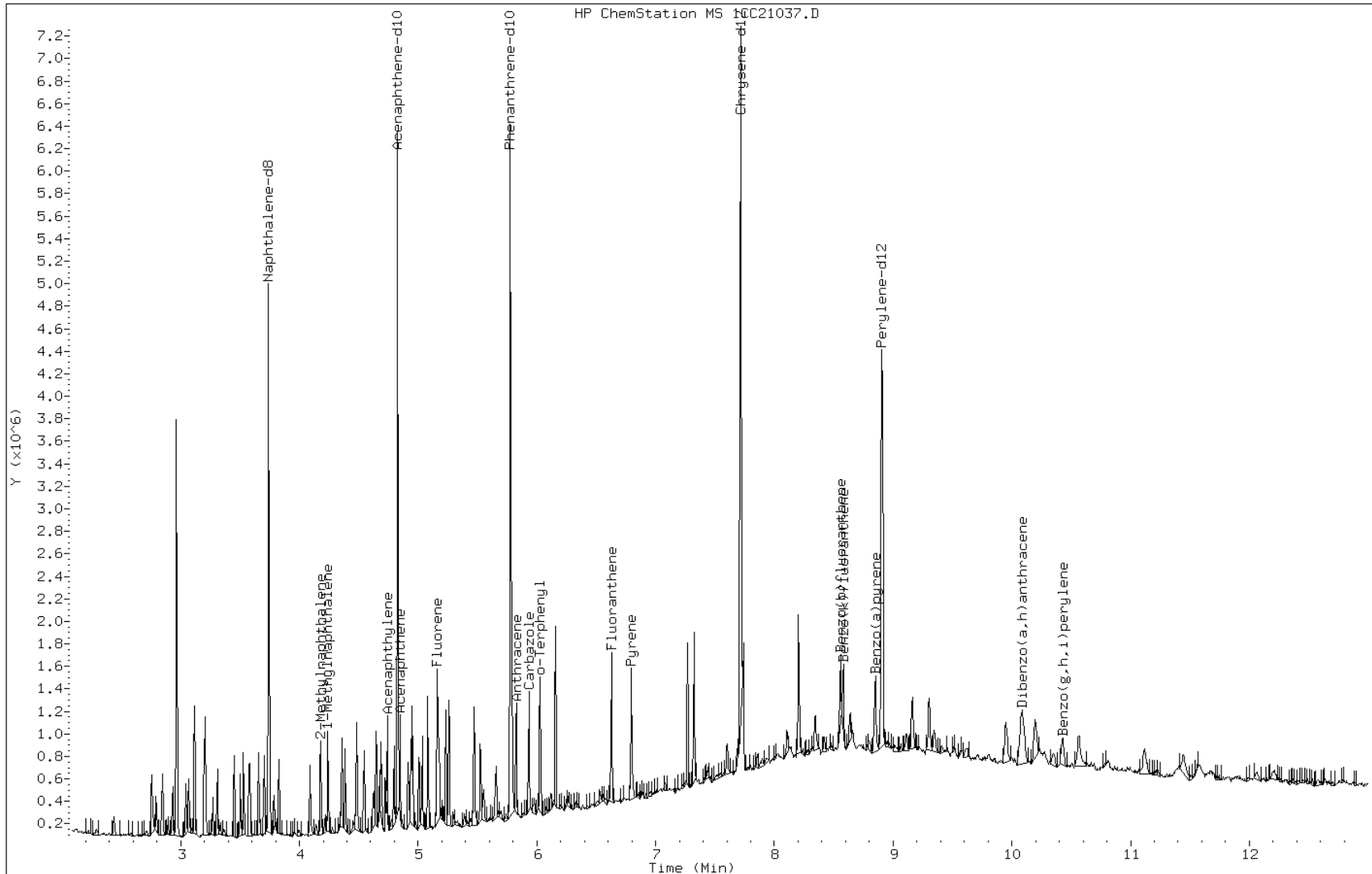
Date: 21-MAR-2013 21:59

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88298-a-21-b ms

Operator: SCC

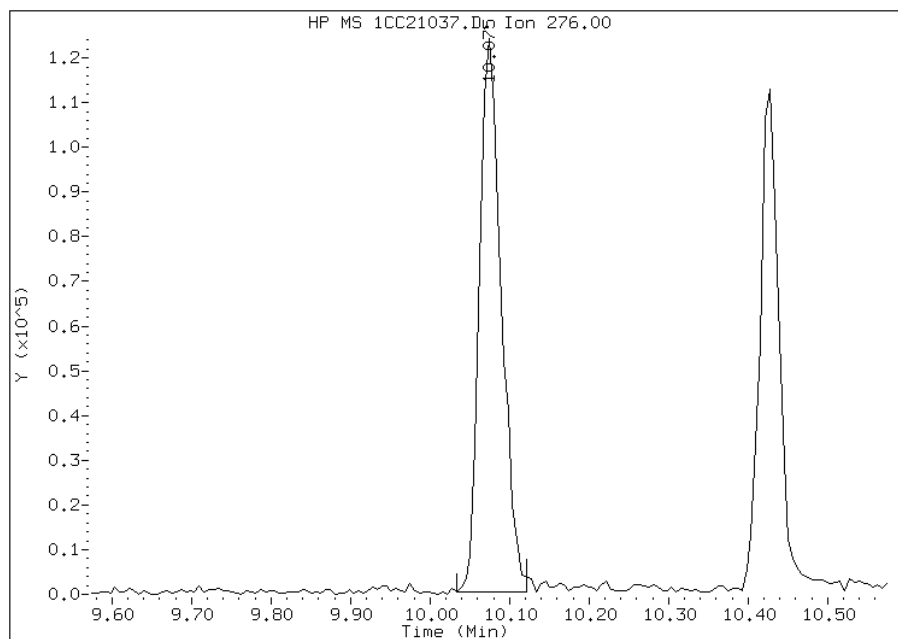


Manual Integration Report

Data File: 1CC21037.D
Inj. Date and Time: 21-MAR-2013 21:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

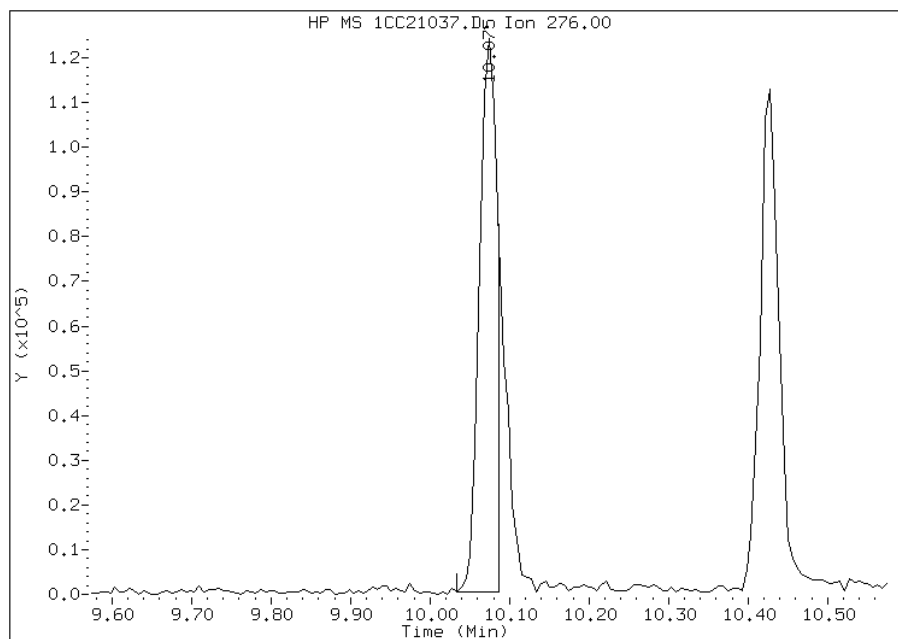
Processing Integration Results

RT: 10.07
Response: 236074
Amount: 7
Conc: 477



Manual Integration Results

RT: 10.07
Response: 190306
Amount: 6
Conc: 384



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0093A-CS MS Lab Sample ID: 680-88348-4 MS
 Matrix: Solid Lab File ID: 1CC21011.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:32
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 15.05(g) Date Analyzed: 03/21/2013 14:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	750		580	120
208-96-8	Acenaphthylene	804		230	29
120-12-7	Anthracene	729		48	24
56-55-3	Benzo[a]anthracene	804		46	22
50-32-8	Benzo[a]pyrene	753		60	30
205-99-2	Benzo[b]fluoranthene	786		70	35
191-24-2	Benzo[g,h,i]perylene	697		120	25
207-08-9	Benzo[k]fluoranthene	735		46	21
218-01-9	Chrysene	748		52	26
53-70-3	Dibenz(a,h)anthracene	734		120	24
206-44-0	Fluoranthene	767		120	23
86-73-7	Fluorene	752		120	24
193-39-5	Indeno[1,2,3-cd]pyrene	644		120	41
90-12-0	1-Methylnaphthalene	815		230	25
91-57-6	2-Methylnaphthalene	838		230	41
91-20-3	Naphthalene	759		230	25
85-01-8	Phenanthrene	820		46	22
129-00-0	Pyrene	834		120	21

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21011.D
 Lab Smp Id: 680-88348-a-4-b ms
 Inj Date : 21-MAR-2013 14:00
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-4-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: MS
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	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		3.739	3.739	(1.000)	952222	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	725009	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1372275	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	33610	1.62218	431.1445	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1480560	40.0000		
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1470377	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	49003	1.97673	525.3765	
3 2-Methylnaphthalene	142		4.174	4.180	(1.116)	36090	2.18251	580.0702	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	31967	2.12260	564.1456	
5 Acenaphthylene	152		4.739	4.739	(0.982)	61215	2.09425	556.6103	
7 Acenaphthene	154		4.845	4.845	(1.004)	35466	1.95210	518.8303	
9 Fluorene	166		5.163	5.162	(1.069)	45001	1.95853	520.5399	
11 Phenanthrene	178		5.786	5.792	(1.002)	84744	2.13568	567.6221	
12 Anthracene	178		5.821	5.821	(1.008)	73641	1.89763	504.3522	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.027)	65663	1.90346	505.9031
15 Fluoranthene	202	6.627	6.627	(1.148)	86834	1.99827	531.1022
16 Pyrene	202	6.792	6.792	(0.880)	86419	2.17199	577.2732
17 Benzo(a)anthracene	228	7.710	7.709	(0.999)	89456	2.09343	556.3928
19 Chrysene	228	7.733	7.733	(1.002)	83256	1.94687	517.4418
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	78678	2.04750	544.1854
21 Benzo(k)fluoranthene	252	8.568	8.574	(0.963)	75413	1.91309	508.4616
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	73146	1.95972	520.8569
24 Indeno(1,2,3-cd)pyrene	276	10.056	10.068	(1.130)	58867	1.67655	445.5955(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.133)	65604	1.91018	507.6892
26 Benzo(g,h,i)perylene	276	10.415	10.421	(1.171)	66614	1.81361	482.0231

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21011.D

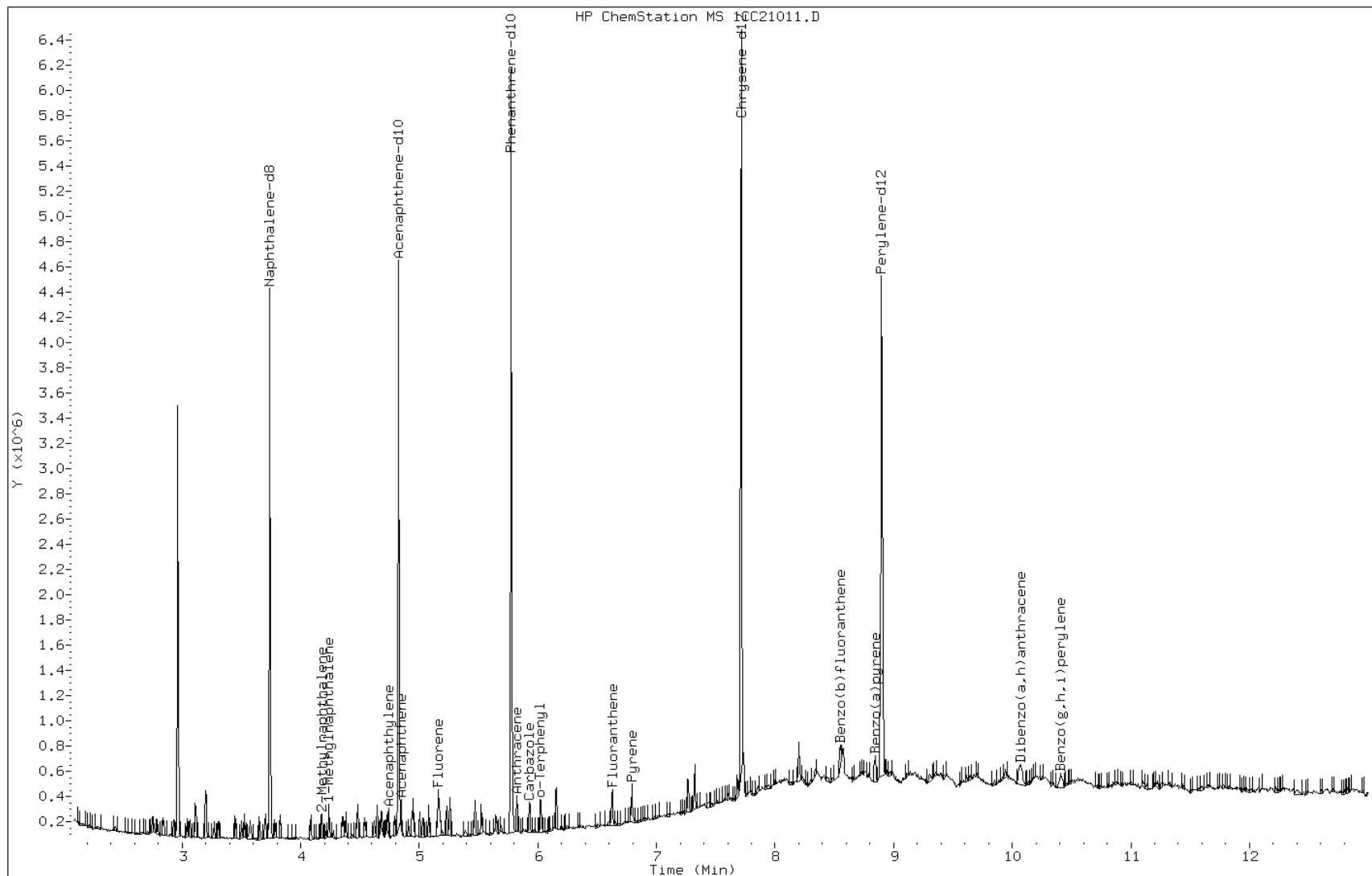
Date: 21-MAR-2013 14:00

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-b ms

Operator: SCC

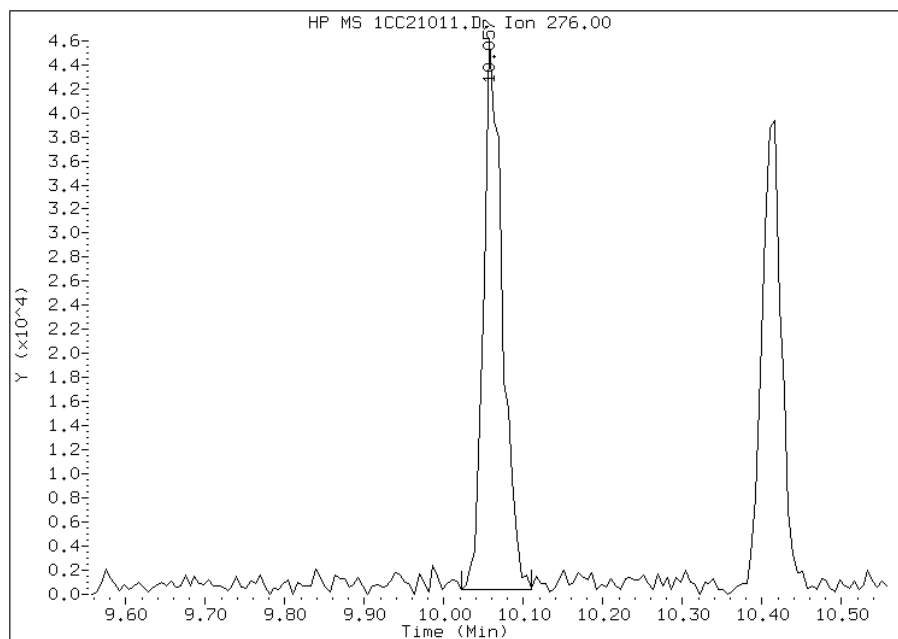


Manual Integration Report

Data File: 1CC21011.D
Inj. Date and Time: 21-MAR-2013 14:00
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

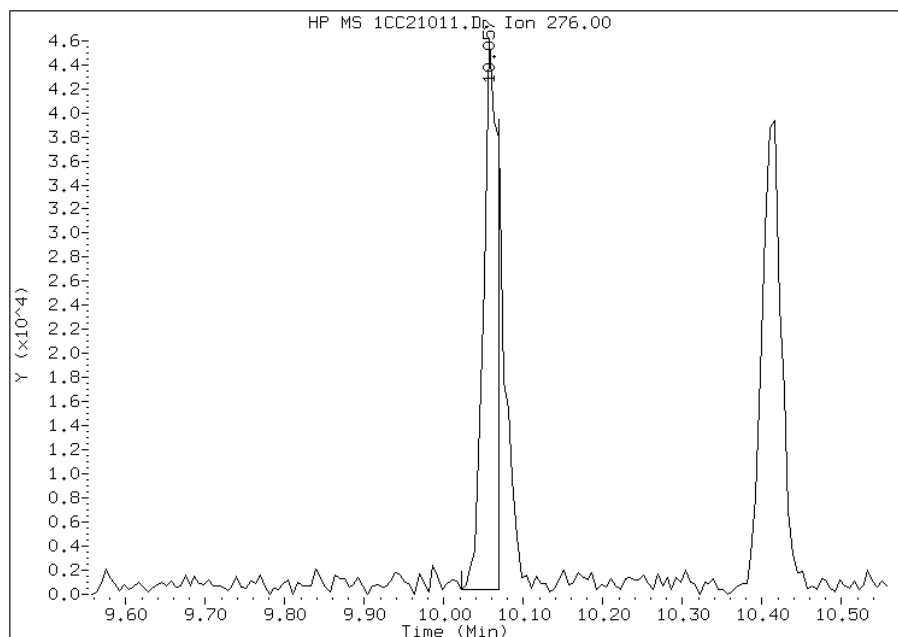
Processing Integration Results

RT: 10.06
Response: 75778
Amount: 2
Conc: 574



Manual Integration Results

RT: 10.06
Response: 58867
Amount: 2
Conc: 446



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: _____ Lab Sample ID: 680-88298-A-21-C MSD
 Matrix: Solid Lab File ID: 1CC21038.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/20/2013 08:31
 Sample wt/vol: 15.13(g) Date Analyzed: 03/21/2013 22:17
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 31.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	559		140	29
208-96-8	Acenaphthylene	608		58	7.2
120-12-7	Anthracene	659		12	6.1
56-55-3	Benzo[a]anthracene	771		12	5.6
50-32-8	Benzo[a]pyrene	747		15	7.5
205-99-2	Benzo[b]fluoranthene	879		18	8.8
191-24-2	Benzo[g,h,i]perylene	555		29	6.4
207-08-9	Benzo[k]fluoranthene	747		12	5.2
218-01-9	Chrysene	751		13	6.5
53-70-3	Dibenz(a,h)anthracene	551		29	5.9
206-44-0	Fluoranthene	1000		29	5.8
86-73-7	Fluorene	685		29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	591		29	10
90-12-0	1-Methylnaphthalene	718		58	6.4
91-57-6	2-Methylnaphthalene	667		58	10
91-20-3	Naphthalene	648		58	6.4
85-01-8	Phenanthrene	918		12	5.6
129-00-0	Pyrene	1020		29	5.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21038.D
 Lab Smp Id: 680-88298-a-21-c ms
 Inj Date : 21-MAR-2013 22:17
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88298-a-21-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 37 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	969283	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	773955	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1390983	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	131271	6.25056	413.1237	
* 18 Chrysene-d12	240		7.721	7.715	(1.000)	1480189	40.0000		
* 23 Perylene-d12	264		8.909	8.898	(1.000)	1390044	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	169403	6.71326	443.7050	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	116409	6.91583	457.0939	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	113998	7.43619	491.4867	
5 Acenaphthylene	152		4.739	4.739	(0.982)	196638	6.30181	416.5106	
7 Acenaphthene	154		4.845	4.845	(1.004)	112398	5.79530	383.0337	
9 Fluorene	166		5.168	5.162	(1.071)	174051	7.09598	469.0008	
11 Phenanthrene	178		5.792	5.792	(1.003)	382692	9.51471	628.8639	
12 Anthracene	178		5.827	5.821	(1.009)	268561	6.82736	451.2468	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.933	5.933	(1.028)	249057	7.12264	470.7629
15 Fluoranthene	202	6.627	6.627	(1.148)	457789	10.3932	686.9270
16 Pyrene	202	6.798	6.792	(0.880)	421398	10.5938	700.1822
17 Benzo(a)anthracene	228	7.709	7.709	(0.998)	341505	7.99382	528.3425
19 Chrysene	228	7.739	7.733	(1.002)	332563	7.77867	514.1221
20 Benzo(b)fluoranthene	252	8.556	8.551	(0.960)	330808	9.10639	601.8764
21 Benzo(k)fluoranthene	252	8.580	8.574	(0.963)	288560	7.74328	511.7829
22 Benzo(a)pyrene	252	8.850	8.845	(0.993)	273121	7.74033	511.5884
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.068	(1.131)	203281	6.12410	404.7655(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.086	(1.133)	185380	5.70962	377.3707
26 Benzo(g,h,i)perylene	276	10.427	10.421	(1.170)	199884	5.75648	380.4680

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21038.D

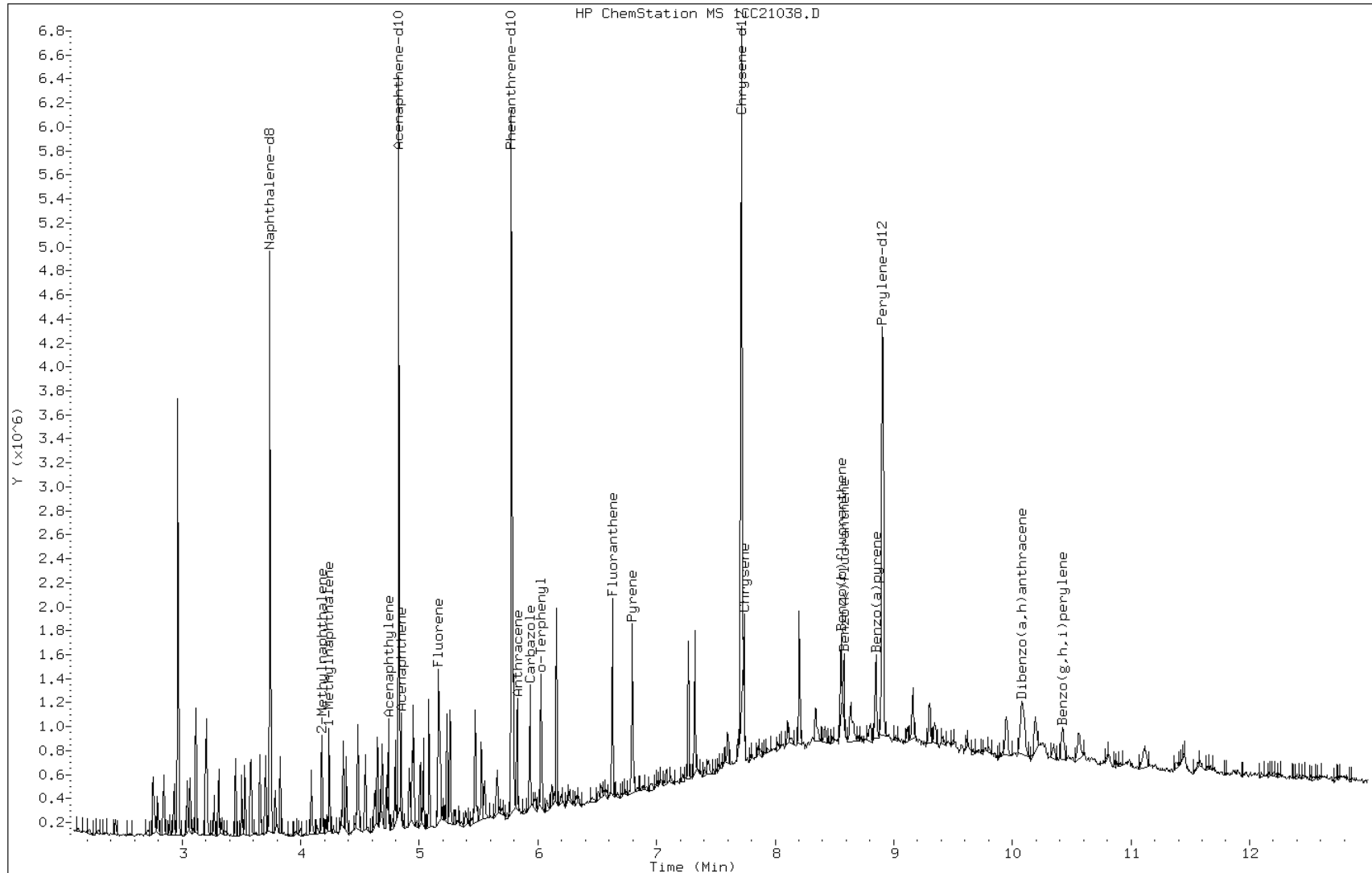
Date: 21-MAR-2013 22:17

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88298-a-21-c msd

Operator: SCC

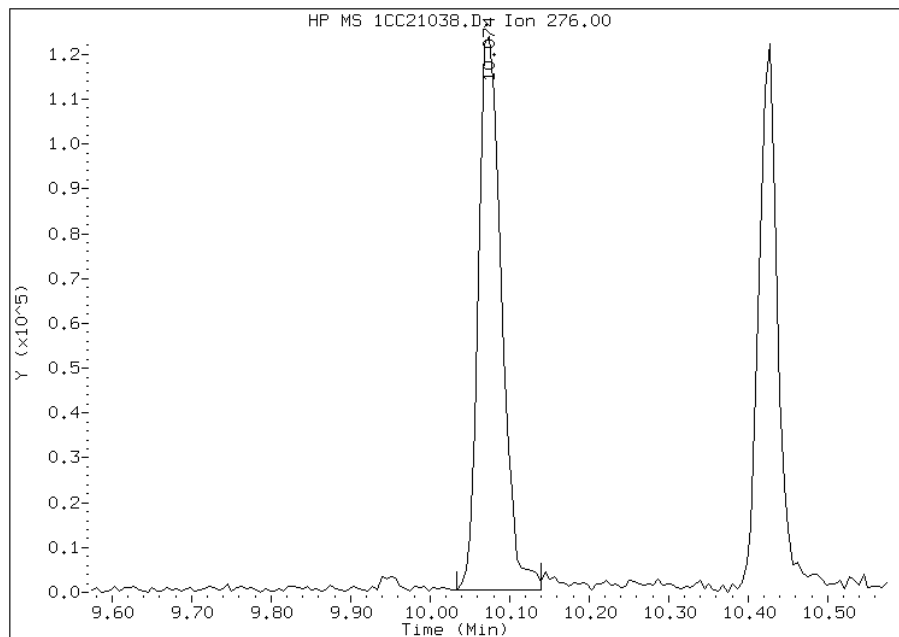


Manual Integration Report

Data File: 1CC21038.D
Inj. Date and Time: 21-MAR-2013 22:17
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/25/2013

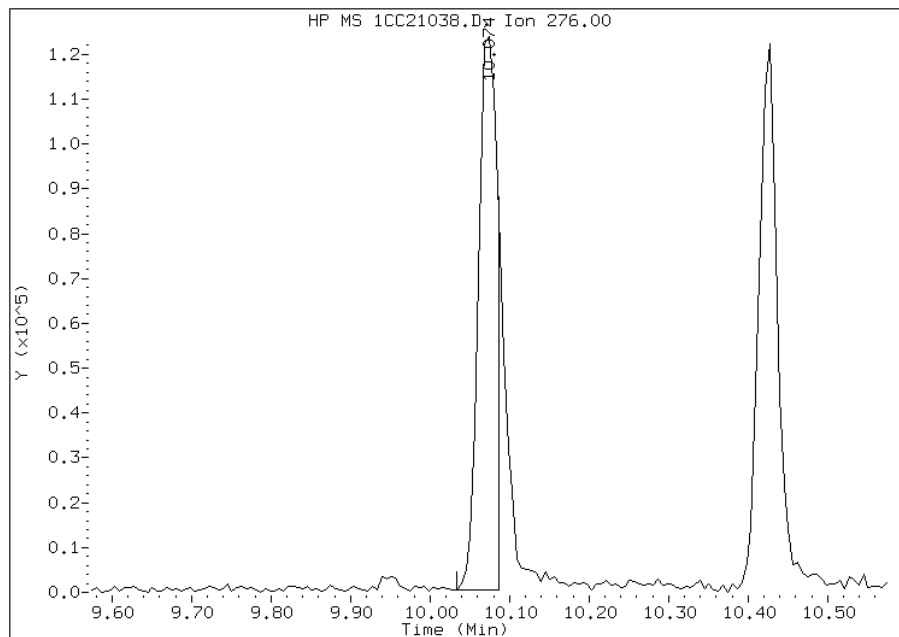
Processing Integration Results

RT: 10.07
Response: 250152
Amount: 8
Conc: 498



Manual Integration Results

RT: 10.07
Response: 203281
Amount: 6
Conc: 405



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1
 SDG No.: 68088348-1
 Client Sample ID: CV0093A-CS MSD Lab Sample ID: 680-88348-4 MSD
 Matrix: Solid Lab File ID: 1CC21012.D
 Analysis Method: 8270C LL Date Collected: 03/13/2013 10:32
 Extract. Method: 3546 Date Extracted: 03/20/2013 10:22
 Sample wt/vol: 14.90 (g) Date Analyzed: 03/21/2013 14:19
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 30.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	803		580	120
208-96-8	Acenaphthylene	842		230	29
120-12-7	Anthracene	768		49	24
56-55-3	Benzo[a]anthracene	902		47	23
50-32-8	Benzo[a]pyrene	793		61	30
205-99-2	Benzo[b]fluoranthene	897		71	35
191-24-2	Benzo[g,h,i]perylene	798		120	26
207-08-9	Benzo[k]fluoranthene	830		47	21
218-01-9	Chrysene	781		52	26
53-70-3	Dibenz(a,h)anthracene	806		120	24
206-44-0	Fluoranthene	951		120	23
86-73-7	Fluorene	764		120	24
193-39-5	Indeno[1,2,3-cd]pyrene	767		120	41
90-12-0	1-Methylnaphthalene	915		230	26
91-57-6	2-Methylnaphthalene	938		230	41
91-20-3	Naphthalene	849		230	26
85-01-8	Phenanthrene	868		47	23
129-00-0	Pyrene	987		120	22

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21012.D
 Lab Smp Id: 680-88348-a-4-c msd
 Inj Date : 21-MAR-2013 14:19
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88348-a-4-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 11 QC Sample: MSD
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.739	(1.000)	916387	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	725308	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1359416	40.0000		
\$ 14 o-Terphenyl	230		6.021	6.027	(1.043)	39486	1.92381	516.4598	
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1529617	40.0000		
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1452850	40.0000		
2 Naphthalene	128		3.751	3.751	(1.003)	52227	2.18917	587.6958	
3 2-Methylnaphthalene	142		4.174	4.180	(1.116)	38480	2.41805	649.1398	
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	34195	2.35933	633.3758	
5 Acenaphthylene	152		4.739	4.739	(0.982)	63499	2.17149	582.9502	
7 Acenaphthene	154		4.845	4.845	(1.004)	37606	2.06903	555.4454	
9 Fluorene	166		5.163	5.162	(1.069)	45279	1.96982	528.8102	
11 Phenanthrene	178		5.786	5.792	(1.002)	87999	2.23869	600.9898	
12 Anthracene	178		5.821	5.821	(1.008)	76084	1.97912	531.3083	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.927	5.933	(1.026)	67408	1.97253	529.5379
15 Fluoranthene	202	6.627	6.627	(1.148)	105502	2.45084	657.9426
16 Pyrene	202	6.792	6.792	(0.880)	104593	2.54445	683.0749
17 Benzo(a)anthracene	228	7.704	7.709	(0.998)	102665	2.32549	624.2923
19 Chrysene	228	7.733	7.733	(1.002)	88998	2.01440	540.7789
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	87813	2.31279	620.8841
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	83377	2.14064	574.6671
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	75418	2.04497	548.9857
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.068	(1.131)	68630	1.97819	531.0569(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.086	(1.133)	70467	2.07653	557.4573
26 Benzo(g,h,i)perylene	276	10.409	10.421	(1.170)	74691	2.05805	552.4955

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC21012.D

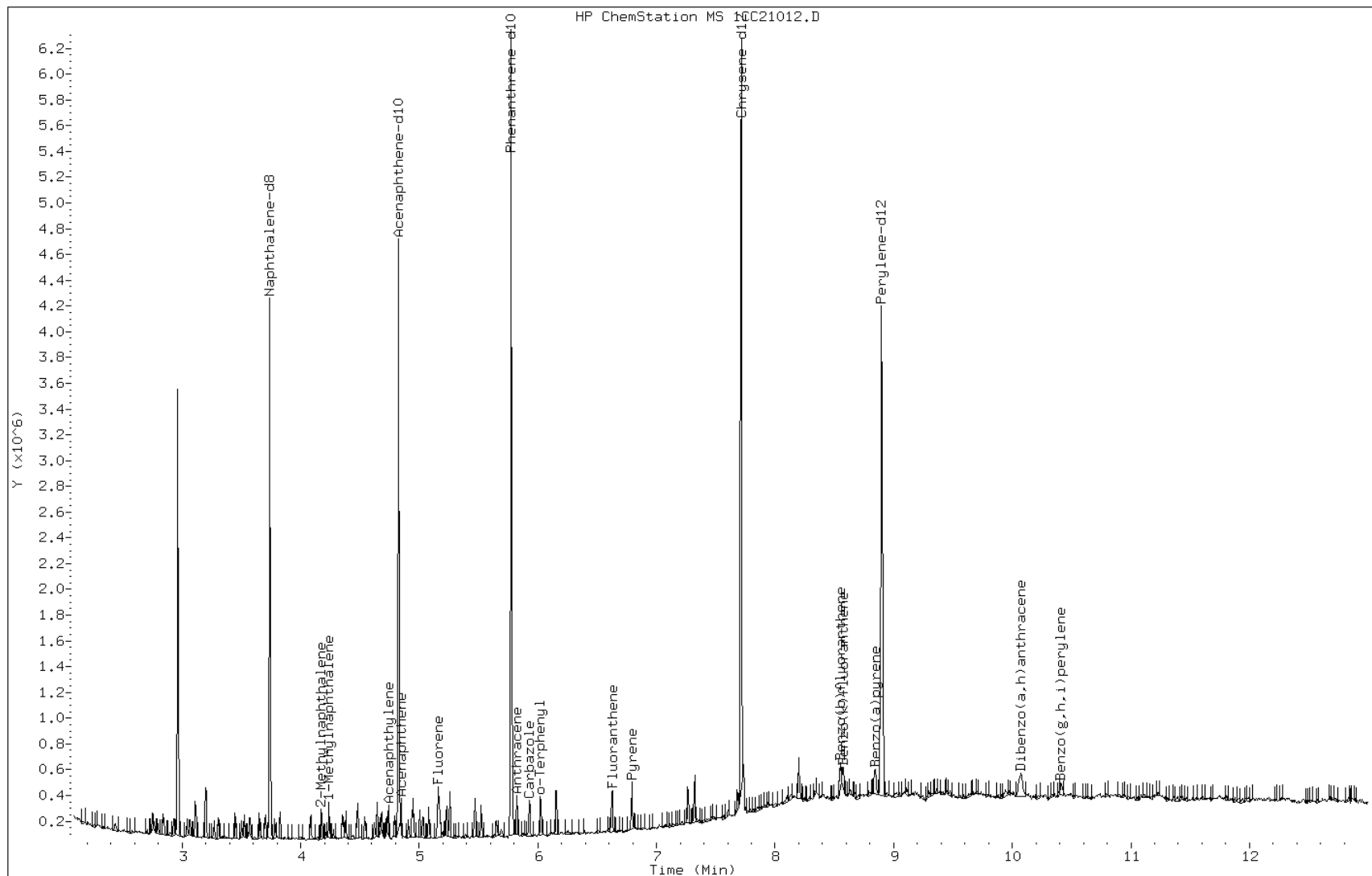
Date: 21-MAR-2013 14:19

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88348-a-4-c msd

Operator: SCC

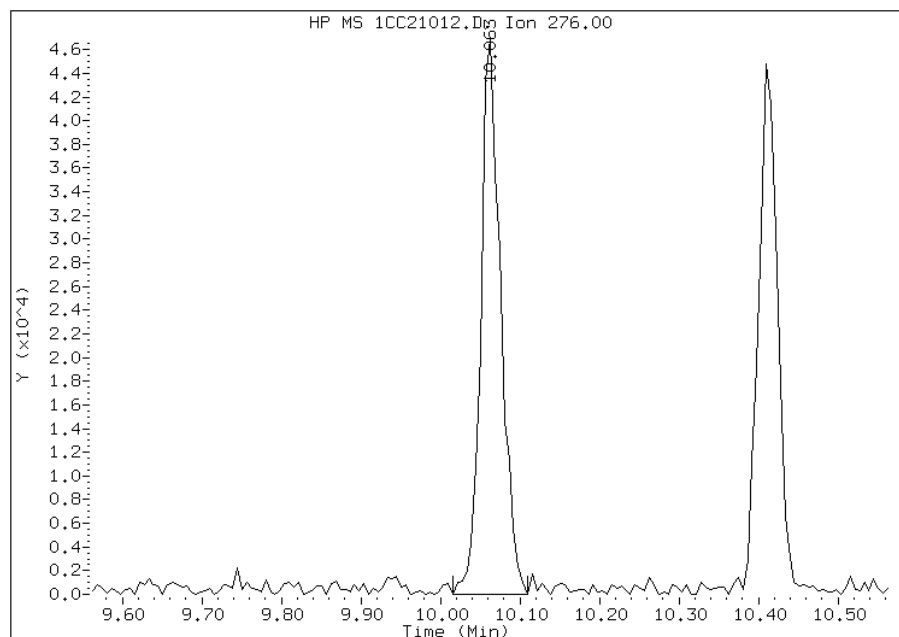


Manual Integration Report

Data File: 1CC21012.D
Inj. Date and Time: 21-MAR-2013 14:19
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

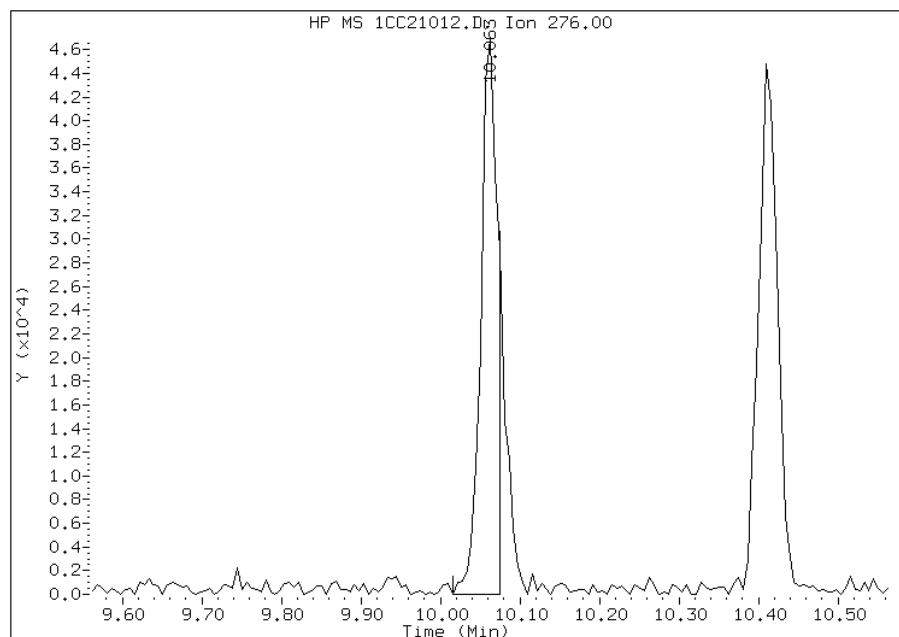
Processing Integration Results

RT: 10.06
Response: 80913
Amount: 2
Conc: 626



Manual Integration Results

RT: 10.06
Response: 68630
Amount: 2
Conc: 531



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 14:37
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973Start Date: 02/22/2013 11:04Analysis Batch Number: 134776End Date: 02/22/2013 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:04	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:23	1		DB-5MS 250 (um)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973Start Date: 03/21/2013 10:38Analysis Batch Number: 135643End Date: 03/21/2013 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2013 10:38	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 10:57	1		DB-5MS 250 (um)
DFTPP 660-135643/2		03/21/2013 11:15	1		DB-5MS 250 (um)
DFTPP 660-135643/3		03/21/2013 11:33	1	1CC21003.D	DB-5MS 250 (um)
CCVIS 660-135643/4		03/21/2013 11:50	1	1CC21004.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 12:10	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 12:29	4		DB-5MS 250 (um)
MB 660-135570/1-A		03/21/2013 12:47	1	1CC21007.D	DB-5MS 250 (um)
LCS 660-135570/2-A		03/21/2013 13:05	1	1CC21008.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 13:24	1		DB-5MS 250 (um)
680-88348-4	CV0093A-CS	03/21/2013 13:42	4	1CC21010.D	DB-5MS 250 (um)
680-88348-4 MS	CV0093A-CS MS	03/21/2013 14:00	4	1CC21011.D	DB-5MS 250 (um)
680-88348-4 MSD	CV0093A-CS MSD	03/21/2013 14:19	4	1CC21012.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 14:37	4		DB-5MS 250 (um)
680-88348-8	CV0154B-CS	03/21/2013 14:55	1	1CC21014.D	DB-5MS 250 (um)
680-88348-9	CV1241A-CS	03/21/2013 15:14	1	1CC21015.D	DB-5MS 250 (um)
680-88348-10	CV1241A-CSD	03/21/2013 15:32	1	1CC21016.D	DB-5MS 250 (um)
680-88348-11	CV1241B-CS	03/21/2013 15:51	1	1CC21017.D	DB-5MS 250 (um)
680-88348-12	CV1241C-CS	03/21/2013 16:09	1	1CC21018.D	DB-5MS 250 (um)
680-88348-13	CV1241D-GS	03/21/2013 16:28	1	1CC21019.D	DB-5MS 250 (um)
680-88348-14	FM0170A-CS	03/21/2013 16:46	1	1CC21020.D	DB-5MS 250 (um)
680-88348-15	FM0170A-CSD	03/21/2013 17:05	1	1CC21021.D	DB-5MS 250 (um)
680-88348-16	FM0170B-CS	03/21/2013 17:23	1	1CC21022.D	DB-5MS 250 (um)
680-88348-17	FM0306A-CS	03/21/2013 17:42	1	1CC21023.D	DB-5MS 250 (um)
680-88348-18	FM0124A-CS	03/21/2013 18:00	4	1CC21024.D	DB-5MS 250 (um)
680-88348-19	FM0124B-CS	03/21/2013 18:18	1	1CC21025.D	DB-5MS 250 (um)
680-88348-20	FM0124C-CS	03/21/2013 18:37	1	1CC21026.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 18:56	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:14	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:32	4		DB-5MS 250 (um)
ZZZZZ		03/21/2013 19:51	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 20:09	1		DB-5MS 250 (um)
MB 660-135556/1-A		03/21/2013 20:27	1	1CC21032.D	DB-5MS 250 (um)
LCS 660-135556/2-A		03/21/2013 20:46	1	1CC21033.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 21:22	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 21:40	1		DB-5MS 250 (um)
680-88298-A-21-B MS		03/21/2013 21:59	1	1CC21037.D	DB-5MS 250 (um)
680-88298-A-21-C MSD		03/21/2013 22:17	1	1CC21038.D	DB-5MS 250 (um)
ZZZZZ		03/21/2013 22:36	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 22:54	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 23:13	1		DB-5MS 250 (um)
ZZZZZ		03/21/2013 23:31	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMC5973Start Date: 03/25/2013 11:38Analysis Batch Number: 135753End Date: 03/25/2013 22:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/25/2013 11:38	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 11:56	1		DB-5MS 250 (um)
DFTPP 660-135753/2		03/25/2013 12:15	1	1CC25002.D	DB-5MS 250 (um)
CCVIS 660-135753/3		03/25/2013 12:33	1	1CC25003.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 12:53	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:11	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:30	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 13:48	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 14:06	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 14:24	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 14:43	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:01	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:20	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:38	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 15:57	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:15	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:33	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 16:52	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 17:10	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 17:33	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 17:51	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 18:09	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 18:27	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 18:46	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:04	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:22	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:41	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 19:59	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 20:18	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 20:36	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 20:54	1		DB-5MS 250 (um)
ZZZZZ		03/25/2013 21:13	1		DB-5MS 250 (um)
680-88348-1	CV0021A-CS	03/25/2013 21:31	4	1CC25032.D	DB-5MS 250 (um)
ZZZZZ		03/25/2013 21:49	1		DB-5MS 250 (um)
680-88348-3	CV0021B-CS	03/25/2013 22:08	1	1CC25034.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMD5973Start Date: 02/22/2013 11:10Analysis Batch Number: 134781End Date: 02/22/2013 20:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 11:10	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 11:33	1		DB-5MS 250 (um)
DFTPP 660-134781/2		02/22/2013 11:57	1	1DB22002.D	DB-5MS 250 (um)
IC 660-134781/3		02/22/2013 12:13	1	1DB22003.D	DB-5MS 250 (um)
IC 660-134781/4		02/22/2013 12:35	1	1DB22004.D	DB-5MS 250 (um)
IC 660-134781/5		02/22/2013 12:58	1	1DB22005.D	DB-5MS 250 (um)
IC 660-134781/6		02/22/2013 13:21	1	1DB22006.D	DB-5MS 250 (um)
ICIS 660-134781/7		02/22/2013 13:43	1	1DB22007.D	DB-5MS 250 (um)
IC 660-134781/8		02/22/2013 14:06	1	1DB22008.D	DB-5MS 250 (um)
IC 660-134781/9		02/22/2013 14:28	1	1DB22009.D	DB-5MS 250 (um)
ICV 660-134781/10		02/22/2013 14:51	1	1DB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:33	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:56	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:21	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:42	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:04	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:27	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:49	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:12	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:34	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:57	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 20:42	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Instrument ID: BSMD5973 Start Date: 03/26/2013 09:28Analysis Batch Number: 135792 End Date: 03/26/2013 15:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/26/2013 09:28	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 09:51	1		DB-5MS 250 (um)
DFTPP 660-135792/2		03/26/2013 10:15	1	1DC26002.D	DB-5MS 250 (um)
CCVIS 660-135792/3		03/26/2013 10:32	1	1DC26003.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 10:55	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:17	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 11:40	1		DB-5MS 250 (um)
680-88348-6	CV0093C-CS	03/26/2013 12:02	1	1DC26007.D	DB-5MS 250 (um)
680-88348-7	CV0154A-CS	03/26/2013 12:25	1	1DC26008.D	DB-5MS 250 (um)
680-88348-2	CV0021A-CSD	03/26/2013 12:47	4	1DC26009.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:10	1		DB-5MS 250 (um)
ZZZZZ		03/26/2013 13:32	1		DB-5MS 250 (um)
680-88348-5	CV0093B-CS	03/26/2013 13:55	1	1DC26012.D	DB-5MS 250 (um)
ZZZZZ		03/26/2013 15:31	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Batch Number: 135556 Batch Start Date: 03/20/13 08:31 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/27/13 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135556/1		3546, 8270C LL		15.40 g	1 mL		1 mL		
LCS 660-135556/2		3546, 8270C LL		15.05 g	1 mL	1 mL	1 mL		
680-88298-A-21 MS		3546, 8270C LL	T	15.14 g	1 mL	1 mL	1 mL		
680-88298-A-21 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-88348-A-1	CV0021A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-88348-A-2	CV0021A-CSD	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-88348-A-3	CV0021B-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88348-A-5	CV0093B-CS	3546, 8270C LL	T	15.30 g	1 mL		1 mL		
680-88348-A-6	CV0093C-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-88348-A-7	CV0154A-CS	3546, 8270C LL	T	15.47 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Batch Number: 135556 Batch Start Date: 03/20/13 08:31 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/27/13 15:00

Batch Notes	
Acetone Lot #	EX-ACETON BOT_49
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 45
Microwave Start Time	10:00 3/20/13
Microwave Stop Time	10:35 3/20/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX-014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Batch Number: 135570 Batch Start Date: 03/20/13 10:22 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/20/13 17:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00177		
MB 660-135570/1		3546, 8270C LL		14.97 g	1 mL		1 mL		
LCS 660-135570/2		3546, 8270C LL		14.98 g	1 mL	1 mL	1 mL		
680-88348-A-4	CV0093A-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-88348-A-4 MS	CV0093A-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-88348-A-4 MSD	CV0093A-CS	3546, 8270C LL	T	14.90 g	1 mL	1 mL	1 mL		
680-88348-A-8	CV0154B-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88348-A-9	CV1241A-CS	3546, 8270C LL	T	15.42 g	1 mL		1 mL		
680-88348-A-10	CV1241A-CSD	3546, 8270C LL	T	15.41 g	1 mL		1 mL		
680-88348-A-11	CV1241B-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-88348-A-12	CV1241C-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-88348-A-13	CV1241D-GS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-88348-A-14	FM0170A-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-88348-A-15	FM0170A-CSD	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88348-A-16	FM0170B-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-88348-A-17	FM0306A-CS	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-88348-A-18	FM0124A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88348-A-19	FM0124B-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-88348-A-20	FM0124C-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1SDG No.: 68088348-1Batch Number: 135570 Batch Start Date: 03/20/13 10:22 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/20/13 17:15

Batch Notes	
Acetone Lot #	EX-ACETON BOT 49
Balance ID	B001
Batch Comment	RUSH included.
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_54
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_54
MeCl2/Acetone Lot #	DCM/ACETON 46/47
Microwave Start Time	12:30 3/20/13
Microwave Stop Time	13:05 3/20/13
Na2SO4 Lot Number	EX-NA2S04A_64
Ottawa Sand Lot #	EX-OTTOWA SAND 13
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT_177
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40C for all

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: 680-88348-1
SDG No.: 68088348-1
Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0021A-CS	680-88348-1
CV0021A-CSD	680-88348-2
CV0021B-CS	680-88348-3
CV0093A-CS	680-88348-4
CV0093B-CS	680-88348-5
CV0093C-CS	680-88348-6
CV0154A-CS	680-88348-7
CV0154B-CS	680-88348-8
CV1241A-CS	680-88348-9
CV1241A-CSD	680-88348-10
CV1241B-CS	680-88348-11
CV1241C-CS	680-88348-12
CV1241D-GS	680-88348-13
FM0170A-CS	680-88348-14
FM0170A-CSD	680-88348-15
FM0170B-CS	680-88348-16
FM0306A-CS	680-88348-17
FM0124A-CS	680-88348-18
FM0124B-CS	680-88348-19
FM0124C-CS	680-88348-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88348-1
SDG Number: 68088348-1
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88348-1
SDG Number: 68088348-1
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88348-1
SDG Number: 68088348-1
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: 680-88348-1
SDG Number: 68088348-1
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.: 680-88348-1

SDG No.: 68088348-1

Instrument ID: Moisture Method: Moisture

Start Date: 03/18/2013 06:37 End Date: 03/18/2013 09:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
LCSD 660-135489/16	1	T	06:37	X															
LCS 660-135489/1	1	T	06:39	X															
ZZZZZZ			06:45																
ZZZZZZ			06:46																
ZZZZZZ			06:51																
ZZZZZZ			06:53																
ZZZZZZ			06:57																
ZZZZZZ			07:00																
ZZZZZZ			07:05																
ZZZZZZ			07:15																
680-88348-2	1	T	08:01	X															
680-88348-1	1	T	08:07	X															
680-88348-3	1	T	08:24	X															
680-88348-4	1	T	08:34	X															
680-88348-4 MS	1	T	08:48	X															
680-88348-4 MSD	1	T	09:14	X															

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1

SDG No.: 68088348-1

Batch Number: 135482 Batch Start Date: 03/18/13 08:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135482/1		Moisture		mb	0 g	9.60 g	9.60 g		
680-88348-A-5	CV0093B-CS	Moisture	T	1	0 g	4.91 g	3.57 g		
680-88348-A-6	CV0093C-CS	Moisture	T	2	0 g	4.53 g	3.42 g		
680-88348-A-7	CV0154A-CS	Moisture	T	3	0 g	4.43 g	3.15 g		
680-88348-A-8	CV0154B-CS	Moisture	T	4	0 g	4.56 g	3.36 g		
680-88348-A-9	CV1241A-CS	Moisture	T	5	0 g	4.48 g	2.65 g		
680-88348-A-10	CV1241A-CSD	Moisture	T	6	0 g	4.87 g	3.04 g		
680-88348-A-20	FM0124C-CS	Moisture	T	7	0 g	4.92 g	3.14 g		
680-88348-A-19	FM0124B-CS	Moisture	T	8	0 g	4.14 g	2.70 g		
680-88348-A-18	FM0124A-CS	Moisture	T	9	0 g	4.62 g	2.58 g		
680-88348-A-17	FM0306A-CS	Moisture	T	11	0 g	4.60 g	2.77 g		
680-88348-A-16	FM0170B-CS	Moisture	T	12	0 g	5.04 g	3.05 g		
680-88348-A-15	FM0170A-CSD	Moisture	T	13	0 g	4.62 g	2.92 g		
680-88348-A-14	FM0170A-CS	Moisture	T	14	0 g	5.26 g	3.96 g		
680-88348-A-13	CV1241D-GS	Moisture	T	15	0 g	4.29 g	2.33 g		
680-88348-A-12	CV1241C-CS	Moisture	T	16	0 g	5.28 g	3.48 g		
680-88348-A-11	CV1241B-CS	Moisture	T	17	0 g	5.17 g	3.45 g		
680-88348-A-21		Moisture	T	18	0 g	4.76 g	3.32 g		
MS									
680-88348-A-21		Moisture	T	18	0 g	4.76 g	3.32 g		
MSD									

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1

SDG No.: 68088348-1

Batch Number: 135482 Batch Start Date: 03/18/13 08:34 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.18.13
Oven Temp when samples are put in oven	106 Degrees C
Time samples were place in the oven	09:08
Date samples were removed from oven	3.18.13
Oven Temp when samples removed from oven	105.8 Degrees C
Time Samples were removed from oven	13:10
Oven ID	4
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	104.8 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88348-1

SDG No.: 68088348-1

Batch Number: 135489 Batch Start Date: 03/18/13 06:37 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135489/1		Moisture		0 g	10.044 g	9.012 g			
680-88348-A-1	CV0021A-CS	Moisture	T	0 g	4.222 g	3.248 g			
680-88348-A-4	CV0093A-CS	Moisture	T	0 g	4.572 g	3.164 g			
680-88348-A-4	CV0093A-CS	Moisture	T	0 g	4.341 g	2.837 g			
MSD 680-88348-A-4	CV0093A-CS	Moisture	T	0 g	4.372 g	2.952 g			
MS 680-88348-A-3	CV0021B-CS	Moisture	T	0 g	4.825 g	3.729 g			
680-88348-A-2	CV0021A-CSD	Moisture	T	0 g	4.37 g	3.312 g			
LCSD 660-135489/16		Moisture		0 g	10.019 g	9.021 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35TH AVE REMOVAL	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1	OF 3
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TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	MATRIX TYPE COMPOSITE (✓) or GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) LLPAH PCPA-8 METALS	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
CLIENT NAME	CLIENT E-MAIL				EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

NUMBER OF CONTAINERS SUBMITTED	REMARKS
PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (✓) or GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS	
DATE	TIME							1	2	3	4	5	6	7	8	9	10		
3/13/13	0910	CV 1241A-CS	C	✓			X												
	0910	CV 1241A-CSO	C	✓			X												
	0923	CV 1241B-CS	C	✓			X												
	1032	CV 1241A-CS	C	✓			X	X											
	1040	CV 1241B-CS	C	✓			X												
	1051	CV 1241C-CS	C	✓			X												
	0945	CV 1241A-CS	C	✓			X												
	0956	CV 1241B-CS	C	✓			X												
	1035	CV 1241A-CS	C	✓			X												
	1035	CV 1241A-CSO	C	✓			X												
	1045	CV 1241B-CS	C	✓			X												
	1055	CV 1241C-CS	C	✓			X												

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-14-13	TIME 1200	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
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RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
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LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/15/13	TIME 0924	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88348	LABORATORY REMARKS 3.8
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35TH AVE REMOVAL	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2	OF 3
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TAL (LAB) PROJECT MANAGER LSA HARVEY	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAA RRRAB MEALS	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="checkbox"/>
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX				DATE DUE _____

CLIENT ADDRESS	COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME											

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)							REMARKS
3/13/13	1105	CV12410-GS	C	✓	✓		X							
	0940	FMØ170A-CS	C	✓	✓		X							
	0940	FMØ170A-CSD	C	✓	✓		X							
	0950	FMØ170B-CS	C	✓	✓		X							
	0900	FMØ306A-CS	C	✓	✓		X	X						
	1220	FMØ124A-CS	C	✓	✓		X							
	1230	FMØ124B-CS	C	✓	✓		X							
	1240	FMØ124C-CS	C	✓	✓		X							
	1315	FMØ333A-CS FMØ315A-CS BD 3/15/13	C	✓	✓		X							
	1350	CV1886A-CS	C	✓	✓		X	X						
	1222	CV0257A-CS	C	✓	✓		X							
	1223	CV0257A-CSD	C	✓	✓		X							

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-14-13	TIME 1200	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
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RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
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RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/15/13	TIME 0924	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 88348	LABORATORY REMARKS 7.8°
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

SDG Number: 68088348-1

Login Number: 88348
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

SDG Number: 68088348-1

Login Number: 88348

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/16/13 09:39 AM

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88348-1

TestAmerica Sample Delivery Group: 68088348-1

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:

3/27/2013 8:41:13 AM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Job ID: 680-88348-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88348-1

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 03/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0021A-CS (680-88348-1), CV0021A-CSD (680-88348-2), CV0021B-CS (680-88348-3), CV0093A-CS (680-88348-4), CV0093B-CS (680-88348-5), CV0093C-CS (680-88348-6), CV0154A-CS (680-88348-7), CV0154B-CS (680-88348-8), CV1241A-CS (680-88348-9), CV1241A-CSD (680-88348-10), CV1241B-CS (680-88348-11), CV1241C-CS (680-88348-12), CV1241D-GS (680-88348-13), FM0170A-CS (680-88348-14), FM0170A-CSD (680-88348-15), FM0170B-CS (680-88348-16), FM0306A-CS (680-88348-17), FM0124A-CS (680-88348-18), FM0124B-CS (680-88348-19) and FM0124C-CS (680-88348-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/20/2013 and analyzed on 03/21/2013, 03/25/2013 and 03/26/2013.

Samples CV0021A-CS (680-88348-1)[4X], CV0021A-CSD (680-88348-2)[4X], CV0093A-CS (680-88348-4)[4X] and FM0124A-CS (680-88348-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0093A-CS (680-88348-4) in batch 660-135643.

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: 680-88348-1
SDG: 68088348-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88348-1	CV0021A-CS	Solid	03/13/13 09:10	03/15/13 10:03
680-88348-2	CV0021A-CSD	Solid	03/13/13 09:10	03/15/13 10:03
680-88348-3	CV0021B-CS	Solid	03/13/13 09:23	03/15/13 10:03
680-88348-4	CV0093A-CS	Solid	03/13/13 10:32	03/15/13 10:03
680-88348-5	CV0093B-CS	Solid	03/13/13 10:40	03/15/13 10:03
680-88348-6	CV0093C-CS	Solid	03/13/13 10:51	03/15/13 10:03
680-88348-7	CV0154A-CS	Solid	03/13/13 09:45	03/15/13 10:03
680-88348-8	CV0154B-CS	Solid	03/13/13 09:56	03/15/13 10:03
680-88348-9	CV1241A-CS	Solid	03/13/13 10:35	03/15/13 10:03
680-88348-10	CV1241A-CSD	Solid	03/13/13 10:35	03/15/13 10:03
680-88348-11	CV1241B-CS	Solid	03/13/13 10:45	03/15/13 10:03
680-88348-12	CV1241C-CS	Solid	03/13/13 10:55	03/15/13 10:03
680-88348-13	CV1241D-GS	Solid	03/13/13 11:05	03/15/13 10:03
680-88348-14	FM0170A-CS	Solid	03/13/13 09:40	03/15/13 10:03
680-88348-15	FM0170A-CSD	Solid	03/13/13 09:40	03/15/13 10:03
680-88348-16	FM0170B-CS	Solid	03/13/13 09:50	03/15/13 10:03
680-88348-17	FM0306A-CS	Solid	03/13/13 09:00	03/15/13 10:03
680-88348-18	FM0124A-CS	Solid	03/13/13 12:20	03/15/13 10:03
680-88348-19	FM0124B-CS	Solid	03/13/13 12:30	03/15/13 10:03
680-88348-20	FM0124C-CS	Solid	03/13/13 12:40	03/15/13 10:03

Method Summary

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

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

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Definitions/Glossary

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Qualifiers

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: CV0021A-CS

Lab Sample ID: 680-88348-1

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U	510	100	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Acenaphthylene	34	J	210	26	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Anthracene	50		43	22	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Benzo[a]anthracene	240		41	20	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Benzo[a]pyrene	250		54	27	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Benzo[b]fluoranthene	370		63	31	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Benzo[g,h,i]perylene	180		100	23	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Benzo[k]fluoranthene	150		41	19	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Chrysene	260		46	23	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Dibenz(a,h)anthracene	65	J	100	21	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Fluoranthene	390		100	21	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Fluorene	23	J	100	21	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Indeno[1,2,3-cd]pyrene	170		100	37	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
1-Methylnaphthalene	100	J	210	23	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
2-Methylnaphthalene	110	J	210	37	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Naphthalene	99	J	210	23	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Phenanthrene	260		41	20	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4
Pyrene	420		100	19	ug/Kg	☼	03/20/13 08:31	03/25/13 21:31	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		30 - 130	03/20/13 08:31	03/25/13 21:31	4

Client Sample ID: CV0021A-CSD

Lab Sample ID: 680-88348-2

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Acenaphthylene	48	J	210	26	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Anthracene	63		44	22	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Benzo[a]anthracene	310		42	20	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Benzo[a]pyrene	250		54	27	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Benzo[b]fluoranthene	420		64	32	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Benzo[g,h,i]perylene	210		100	23	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Benzo[k]fluoranthene	160		42	19	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Chrysene	320		47	23	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Fluoranthene	560		100	21	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Fluorene	25	J	100	21	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Indeno[1,2,3-cd]pyrene	180		100	37	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
1-Methylnaphthalene	190	J	210	23	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
2-Methylnaphthalene	200	J	210	37	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Naphthalene	140	J	210	23	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Phenanthrene	390		42	20	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4
Pyrene	460		100	19	ug/Kg	☼	03/20/13 08:31	03/26/13 12:47	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130	03/20/13 08:31	03/26/13 12:47	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: CV0021B-CS

Lab Sample ID: 680-88348-3

Date Collected: 03/13/13 09:23

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 77.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Acenaphthylene	15	J	51	6.4	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Anthracene	50		11	5.4	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Benzo[a]anthracene	260		10	5.0	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Benzo[a]pyrene	260		13	6.7	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Benzo[b]fluoranthene	390		16	7.9	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Benzo[g,h,i]perylene	200		26	5.7	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Benzo[k]fluoranthene	160		10	4.6	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Chrysene	270		12	5.8	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Dibenz(a,h)anthracene	58		26	5.3	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Fluoranthene	610		26	5.1	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Fluorene	29		26	5.3	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Indeno[1,2,3-cd]pyrene	160		26	9.1	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
1-Methylnaphthalene	30	J	51	5.7	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
2-Methylnaphthalene	35	J	51	9.1	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Naphthalene	30	J	51	5.7	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Phenanthrene	360		10	5.0	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Pyrene	590		26	4.8	ug/Kg	☼	03/20/13 08:31	03/25/13 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		30 - 130				03/20/13 08:31	03/25/13 22:08	1

Client Sample ID: CV0093A-CS

Lab Sample ID: 680-88348-4

Date Collected: 03/13/13 10:32

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 69.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Acenaphthylene	230	U	230	29	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Anthracene	42	J	49	24	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Benzo[a]anthracene	240		46	23	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Benzo[a]pyrene	160		60	30	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Benzo[b]fluoranthene	350		71	35	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Benzo[g,h,i]perylene	200		120	26	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Benzo[k]fluoranthene	93		46	21	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Chrysene	550	F	52	26	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Dibenz(a,h)anthracene	120		120	24	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Fluoranthene	300		120	23	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Fluorene	47	J	120	24	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Indeno[1,2,3-cd]pyrene	110	J	120	41	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
1-Methylnaphthalene	400		230	26	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
2-Methylnaphthalene	510		230	41	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Naphthalene	210	J	230	26	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Phenanthrene	540	F	46	23	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Pyrene	290		120	22	ug/Kg	☼	03/20/13 10:22	03/21/13 13:42	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	49		30 - 130				03/20/13 10:22	03/21/13 13:42	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: CV0093B-CS

Lab Sample ID: 680-88348-5

Date Collected: 03/13/13 10:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Anthracene	10	J	11	5.7	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Benzo[a]anthracene	42		11	5.3	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Benzo[a]pyrene	36		14	7.0	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Benzo[b]fluoranthene	63		16	8.2	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Benzo[g,h,i]perylene	31		27	5.9	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Benzo[k]fluoranthene	18		11	4.9	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Chrysene	59		12	6.1	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Dibenz(a,h)anthracene	9.7	J	27	5.5	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Fluoranthene	62		27	5.4	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Fluorene	27	U	27	5.5	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Indeno[1,2,3-cd]pyrene	24	J	27	9.6	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
1-Methylnaphthalene	41	J	54	5.9	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
2-Methylnaphthalene	41	J	54	9.6	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Naphthalene	31	J	54	5.9	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Phenanthrene	57		11	5.3	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Pyrene	54		27	5.0	ug/Kg	☼	03/20/13 08:31	03/26/13 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				03/20/13 08:31	03/26/13 13:55	1

Client Sample ID: CV0093C-CS

Lab Sample ID: 680-88348-6

Date Collected: 03/13/13 10:51

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Acenaphthylene	53	U	53	6.6	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Anthracene	11	U	11	5.5	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Benzo[a]anthracene	30		11	5.1	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Benzo[a]pyrene	21		14	6.9	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Benzo[b]fluoranthene	39		16	8.0	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Benzo[g,h,i]perylene	18	J	26	5.8	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Benzo[k]fluoranthene	12		11	4.7	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Chrysene	32		12	5.9	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Dibenz(a,h)anthracene	6.2	J	26	5.4	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Fluoranthene	41		26	5.3	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Fluorene	26	U	26	5.4	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Indeno[1,2,3-cd]pyrene	13	J	26	9.4	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
1-Methylnaphthalene	8.9	J	53	5.8	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
2-Methylnaphthalene	9.6	J	53	9.4	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Naphthalene	10	J	53	5.8	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Phenanthrene	28		11	5.1	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Pyrene	35		26	4.9	ug/Kg	☼	03/20/13 08:31	03/26/13 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/20/13 08:31	03/26/13 12:02	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: CV0154A-CS

Lab Sample ID: 680-88348-7

Date Collected: 03/13/13 09:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 71.1

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	27	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Acenaphthylene	55	U	55	6.8	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Anthracene	12		11	5.7	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Benzo[a]anthracene	120		11	5.3	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Benzo[a]pyrene	150		14	7.1	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Benzo[b]fluoranthene	280		17	8.3	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Benzo[g,h,i]perylene	180		27	6.0	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Benzo[k]fluoranthene	90		11	4.9	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Chrysene	150		12	6.1	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Dibenz(a,h)anthracene	55		27	5.6	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Fluoranthene	120		27	5.5	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Fluorene	5.8	J	27	5.6	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Indeno[1,2,3-cd]pyrene	140		27	9.7	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
1-Methylnaphthalene	29	J	55	6.0	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
2-Methylnaphthalene	42	J	55	9.7	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Naphthalene	50	J	55	6.0	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Phenanthrene	74		11	5.3	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Pyrene	110		27	5.0	ug/Kg	☼	03/20/13 08:31	03/26/13 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/20/13 08:31	03/26/13 12:25	1

Client Sample ID: CV0154B-CS

Lab Sample ID: 680-88348-8

Date Collected: 03/13/13 09:56

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 73.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Acenaphthylene	24	J	54	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Anthracene	37		11	5.7	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Benzo[a]anthracene	270		11	5.3	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Benzo[a]pyrene	300		14	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Benzo[b]fluoranthene	650		16	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Benzo[g,h,i]perylene	340		27	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Benzo[k]fluoranthene	270		11	4.9	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Chrysene	490		12	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Dibenz(a,h)anthracene	120		27	5.5	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Fluoranthene	330		27	5.4	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Fluorene	40		27	5.5	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Indeno[1,2,3-cd]pyrene	260		27	9.6	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
1-Methylnaphthalene	160		54	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
2-Methylnaphthalene	170		54	9.6	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Naphthalene	170		54	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Phenanthrene	300		11	5.3	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Pyrene	310		27	5.0	ug/Kg	☼	03/20/13 10:22	03/21/13 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/20/13 10:22	03/21/13 14:55	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: CV1241A-CS

Lab Sample ID: 680-88348-9

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 59.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Anthracene	51		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[a]anthracene	110		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[a]pyrene	66		17	8.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[b]fluoranthene	170		20	10	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[g,h,i]perylene	85		33	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Benzo[k]fluoranthene	38		13	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Chrysene	170		15	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Dibenz(a,h)anthracene	38		33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Fluoranthene	190		33	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Fluorene	27	J	33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Indeno[1,2,3-cd]pyrene	53		33	12	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
1-Methylnaphthalene	100		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
2-Methylnaphthalene	150		66	12	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Naphthalene	170		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Phenanthrene	260		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Pyrene	190		33	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	50		30 - 130				03/20/13 10:22	03/21/13 15:14	1

Client Sample ID: CV1241A-CSD

Lab Sample ID: 680-88348-10

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 62.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Acenaphthylene	21	J	62	7.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Anthracene	27		13	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[a]anthracene	99		12	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[a]pyrene	59		16	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[b]fluoranthene	180		19	9.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[g,h,i]perylene	75		31	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Benzo[k]fluoranthene	41		12	5.6	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Chrysene	190		14	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Dibenz(a,h)anthracene	26	J	31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Fluoranthene	160		31	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Fluorene	31		31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Indeno[1,2,3-cd]pyrene	44		31	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
1-Methylnaphthalene	110		62	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
2-Methylnaphthalene	120		62	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Naphthalene	210		62	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Phenanthrene	200		12	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Pyrene	160		31	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/20/13 10:22	03/21/13 15:32	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241B-CS

Lab Sample ID: 680-88348-11

Date Collected: 03/13/13 10:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 66.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Acenaphthylene	50	J	59	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Anthracene	34		12	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Benzo[a]anthracene	140		12	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Benzo[a]pyrene	120		15	7.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Benzo[b]fluoranthene	330		18	9.0	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Benzo[g,h,i]perylene	140		30	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Benzo[k]fluoranthene	91		12	5.3	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Chrysene	250		13	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Dibenz(a,h)anthracene	39		30	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Fluoranthene	180		30	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Fluorene	40		30	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Indeno[1,2,3-cd]pyrene	94		30	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
1-Methylnaphthalene	120		59	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
2-Methylnaphthalene	140		59	11	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Naphthalene	200		59	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Phenanthrene	220		12	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Pyrene	170		30	5.5	ug/Kg	☼	03/20/13 10:22	03/21/13 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/20/13 10:22	03/21/13 15:51	1

Client Sample ID: CV1241C-CS

Lab Sample ID: 680-88348-12

Date Collected: 03/13/13 10:55

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Acenaphthylene	9.3	J	61	7.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Anthracene	31		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Benzo[a]anthracene	150		12	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Benzo[a]pyrene	170		16	7.9	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Benzo[b]fluoranthene	340		18	9.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Benzo[g,h,i]perylene	160		30	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Benzo[k]fluoranthene	150		12	5.5	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Chrysene	230		14	6.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Dibenz(a,h)anthracene	54		30	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Fluoranthene	210		30	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Fluorene	22	J	30	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Indeno[1,2,3-cd]pyrene	130		30	11	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
1-Methylnaphthalene	110		61	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
2-Methylnaphthalene	100		61	11	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Naphthalene	130		61	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Phenanthrene	190		12	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Pyrene	180		30	5.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/20/13 10:22	03/21/13 16:09	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241D-GS

Lab Sample ID: 680-88348-13

Date Collected: 03/13/13 11:05

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 54.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	180	U	180	37	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Acenaphthylene	74	U	74	9.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Anthracene	10	J	15	7.7	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Benzo[a]anthracene	38		15	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Benzo[a]pyrene	14	J	19	9.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Benzo[b]fluoranthene	27		22	11	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Benzo[g,h,i]perylene	20	J	37	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Benzo[k]fluoranthene	12	J	15	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Chrysene	23		17	8.3	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Dibenz(a,h)anthracene	9.5	J	37	7.5	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Fluoranthene	32	J	37	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Fluorene	37	U	37	7.5	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Indeno[1,2,3-cd]pyrene	37	U	37	13	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
1-Methylnaphthalene	30	J	74	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
2-Methylnaphthalene	35	J	74	13	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Naphthalene	44	J	74	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Phenanthrene	37		15	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Pyrene	37		37	6.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				03/20/13 10:22	03/21/13 16:28	1

Client Sample ID: FM0170A-CS

Lab Sample ID: 680-88348-14

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Acenaphthylene	36	J	53	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Anthracene	34		11	5.6	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Benzo[a]anthracene	200		11	5.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Benzo[a]pyrene	150		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Benzo[b]fluoranthene	310		16	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Benzo[g,h,i]perylene	130		27	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Benzo[k]fluoranthene	140		11	4.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Chrysene	320		12	6.0	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Dibenz(a,h)anthracene	43		27	5.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Fluoranthene	260		27	5.3	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Fluorene	25	J	27	5.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Indeno[1,2,3-cd]pyrene	110		27	9.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
1-Methylnaphthalene	110		53	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
2-Methylnaphthalene	110		53	9.4	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Naphthalene	160		53	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Phenanthrene	270		11	5.2	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Pyrene	270		27	4.9	ug/Kg	☼	03/20/13 10:22	03/21/13 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130				03/20/13 10:22	03/21/13 16:46	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0170A-CSD

Lab Sample ID: 680-88348-15

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Acenaphthylene	19	J	63	7.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Anthracene	51		13	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Benzo[a]anthracene	160		13	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Benzo[a]pyrene	110		16	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Benzo[b]fluoranthene	260		19	9.6	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Benzo[g,h,i]perylene	92		32	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Benzo[k]fluoranthene	65		13	5.7	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Chrysene	290		14	7.1	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Dibenz(a,h)anthracene	42		32	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Fluoranthene	270		32	6.3	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Fluorene	30	J	32	6.5	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Indeno[1,2,3-cd]pyrene	56		32	11	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
1-Methylnaphthalene	310		63	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
2-Methylnaphthalene	470		63	11	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Naphthalene	460		63	7.0	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Phenanthrene	310		13	6.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Pyrene	270		32	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	42		30 - 130				03/20/13 10:22	03/21/13 17:05	1

Client Sample ID: FM0170B-CS

Lab Sample ID: 680-88348-16

Date Collected: 03/13/13 09:50

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Acenaphthylene	51	J	66	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Anthracene	110		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Benzo[a]anthracene	270		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Benzo[a]pyrene	180		17	8.6	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Benzo[b]fluoranthene	380		20	10	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Benzo[g,h,i]perylene	120		33	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Benzo[k]fluoranthene	120		13	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Chrysene	400		15	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Dibenz(a,h)anthracene	57		33	6.8	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Fluoranthene	390		33	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Fluorene	44		33	6.8	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Indeno[1,2,3-cd]pyrene	88		33	12	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
1-Methylnaphthalene	250		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
2-Methylnaphthalene	240		66	12	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Naphthalene	270		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Phenanthrene	420		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Pyrene	400		33	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	42		30 - 130				03/20/13 10:22	03/21/13 17:23	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0306A-CS

Lab Sample ID: 680-88348-17

Date Collected: 03/13/13 09:00

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Acenaphthylene	66	U	66	8.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Anthracene	72		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Benzo[a]anthracene	100		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Benzo[a]pyrene	53		17	8.5	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Benzo[b]fluoranthene	120		20	10	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Benzo[g,h,i]perylene	34		33	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Benzo[k]fluoranthene	93		13	5.9	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Chrysene	200		15	7.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Dibenz(a,h)anthracene	18	J	33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Fluoranthene	220		33	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Fluorene	54		33	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Indeno[1,2,3-cd]pyrene	47		33	12	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
1-Methylnaphthalene	130		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
2-Methylnaphthalene	140		66	12	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Naphthalene	330		66	7.2	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Phenanthrene	250		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Pyrene	160		33	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				03/20/13 10:22	03/21/13 17:42	1

Client Sample ID: FM0124A-CS

Lab Sample ID: 680-88348-18

Date Collected: 03/13/13 12:20

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 55.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	710	U	710	140	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Acenaphthylene	280	U	280	36	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Anthracene	50	J	60	30	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Benzo[a]anthracene	170		57	28	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Benzo[a]pyrene	66	J	74	37	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Benzo[b]fluoranthene	220		87	43	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Benzo[g,h,i]perylene	120	J	140	31	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Benzo[k]fluoranthene	93		57	26	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Chrysene	320		64	32	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Dibenz(a,h)anthracene	34	J	140	29	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Fluoranthene	230		140	28	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Fluorene	53	J	140	29	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Indeno[1,2,3-cd]pyrene	70	J	140	50	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
1-Methylnaphthalene	220	J	280	31	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
2-Methylnaphthalene	240	J	280	50	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Naphthalene	210	J	280	31	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Phenanthrene	360		57	28	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Pyrene	240		140	26	ug/Kg	☼	03/20/13 10:22	03/21/13 18:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	58		30 - 130				03/20/13 10:22	03/21/13 18:00	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Client Sample ID: FM0124B-CS

Lab Sample ID: 680-88348-19

Date Collected: 03/13/13 12:30

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	31	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Acenaphthylene	11	J	61	7.7	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Anthracene	36		13	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Benzo[a]anthracene	120		12	6.0	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Benzo[a]pyrene	99		16	8.0	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Benzo[b]fluoranthene	190		19	9.3	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Benzo[g,h,i]perylene	60		31	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Benzo[k]fluoranthene	58		12	5.5	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Chrysene	170		14	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Dibenz(a,h)anthracene	27	J	31	6.3	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Fluoranthene	250		31	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Fluorene	26	J	31	6.3	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Indeno[1,2,3-cd]pyrene	44		31	11	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
1-Methylnaphthalene	75		61	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
2-Methylnaphthalene	110		61	11	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Naphthalene	80		61	6.7	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Phenanthrene	220		12	6.0	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Pyrene	220		31	5.7	ug/Kg	☼	03/20/13 10:22	03/21/13 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	50		30 - 130				03/20/13 10:22	03/21/13 18:18	1

Client Sample ID: FM0124C-CS

Lab Sample ID: 680-88348-20

Date Collected: 03/13/13 12:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Acenaphthylene	14	J	63	7.8	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Anthracene	12	J	13	6.6	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Benzo[a]anthracene	51		13	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Benzo[a]pyrene	31		16	8.1	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Benzo[b]fluoranthene	85		19	9.6	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Benzo[g,h,i]perylene	19	J	31	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Benzo[k]fluoranthene	25		13	5.6	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Chrysene	82		14	7.1	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Dibenz(a,h)anthracene	18	J	31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Fluoranthene	80		31	6.3	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Fluorene	10	J	31	6.4	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Indeno[1,2,3-cd]pyrene	16	J	31	11	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
1-Methylnaphthalene	49	J	63	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
2-Methylnaphthalene	57	J	63	11	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Naphthalene	77		63	6.9	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Phenanthrene	82		13	6.1	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Pyrene	81		31	5.8	ug/Kg	☼	03/20/13 10:22	03/21/13 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	38		30 - 130				03/20/13 10:22	03/21/13 18:37	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

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

Lab Sample ID: MB 660-135556/1-A

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	97	U	97	19	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Acenaphthylene	39	U	39	4.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[b]fluoranthene	12	U	12	5.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[g,h,i]perylene	19	U	19	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Dibenz(a,h)anthracene	19	U	19	4.0	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Fluoranthene	19	U	19	3.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Fluorene	19	U	19	4.0	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Indeno[1,2,3-cd]pyrene	19	U	19	6.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
2-Methylnaphthalene	39	U	39	6.9	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Naphthalene	39	U	39	4.3	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		03/20/13 08:31	03/21/13 20:27	1
Pyrene	19	U	19	3.6	ug/Kg		03/20/13 08:31	03/21/13 20:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		30 - 130	03/20/13 08:31	03/21/13 20:27	1

Lab Sample ID: LCS 660-135556/2-A

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	664	456		ug/Kg		69	39 - 130
Acenaphthylene	664	518		ug/Kg		78	38 - 130
Anthracene	664	519		ug/Kg		78	37 - 130
Benzo[a]anthracene	664	537		ug/Kg		81	40 - 130
Benzo[a]pyrene	664	503		ug/Kg		76	49 - 130
Benzo[b]fluoranthene	664	555		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	664	382		ug/Kg		58	32 - 130
Benzo[k]fluoranthene	664	529		ug/Kg		80	32 - 130
Chrysene	664	510		ug/Kg		77	41 - 130
Dibenz(a,h)anthracene	664	458		ug/Kg		69	27 - 130
Fluoranthene	664	507		ug/Kg		76	40 - 130
Fluorene	664	501		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	664	445		ug/Kg		67	30 - 130
1-Methylnaphthalene	664	600		ug/Kg		90	31 - 130
2-Methylnaphthalene	664	543		ug/Kg		82	33 - 130
Naphthalene	664	558		ug/Kg		84	36 - 130
Phenanthrene	664	499		ug/Kg		75	42 - 130
Pyrene	664	572		ug/Kg		86	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

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

Lab Sample ID: LCS 660-135556/2-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135556

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	75		30 - 130

Lab Sample ID: MB 660-135570/1-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135570

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	100	U	100	20	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Fluorene	20	U	20	4.1	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Naphthalene	40	U	40	4.4	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/20/13 10:22	03/21/13 12:47	1
Pyrene	20	U	20	3.7	ug/Kg		03/20/13 10:22	03/21/13 12:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	74		30 - 130	03/20/13 10:22	03/21/13 12:47	1

Lab Sample ID: LCS 660-135570/2-A
Matrix: Solid
Analysis Batch: 135643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	668	539		ug/Kg		81	38 - 130
Anthracene	668	527		ug/Kg		79	37 - 130
Benzo[a]anthracene	668	533		ug/Kg		80	40 - 130
Benzo[a]pyrene	668	511		ug/Kg		77	49 - 130
Benzo[b]fluoranthene	668	544		ug/Kg		82	37 - 130
Benzo[g,h,i]perylene	668	514		ug/Kg		77	32 - 130
Benzo[k]fluoranthene	668	521		ug/Kg		78	32 - 130
Chrysene	668	499		ug/Kg		75	41 - 130
Dibenz(a,h)anthracene	668	532		ug/Kg		80	27 - 130
Fluoranthene	668	573		ug/Kg		86	40 - 130
Fluorene	668	547		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	668	506		ug/Kg		76	30 - 130
1-Methylnaphthalene	668	596		ug/Kg		89	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

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

Lab Sample ID: LCS 660-135570/2-A

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	668	524		ug/Kg		79	33 - 130
Naphthalene	668	529		ug/Kg		79	36 - 130
Phenanthrene	668	529		ug/Kg		79	42 - 130
Pyrene	668	543		ug/Kg		81	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	74		30 - 130

Lab Sample ID: 680-88348-4 MS

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: CV0093A-CS

Prep Type: Total/NA

Prep Batch: 135570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	580	U	960	750		ug/Kg	☼	78	39 - 130
Acenaphthylene	230	U	960	804		ug/Kg	☼	84	38 - 130
Anthracene	42	J	960	729		ug/Kg	☼	72	37 - 130
Benzo[a]anthracene	240		960	804		ug/Kg	☼	58	40 - 130
Benzo[a]pyrene	160		960	753		ug/Kg	☼	62	49 - 130
Benzo[b]fluoranthene	350		960	786		ug/Kg	☼	45	37 - 130
Benzo[g,h,i]perylene	200		960	697		ug/Kg	☼	52	32 - 130
Benzo[k]fluoranthene	93		960	735		ug/Kg	☼	67	32 - 130
Chrysene	550	F	960	748	F	ug/Kg	☼	21	41 - 130
Dibenz(a,h)anthracene	120		960	734		ug/Kg	☼	64	27 - 130
Fluoranthene	300		960	767		ug/Kg	☼	49	40 - 130
Fluorene	47	J	960	752		ug/Kg	☼	73	40 - 130
Indeno[1,2,3-cd]pyrene	110	J	960	644		ug/Kg	☼	56	30 - 130
1-Methylnaphthalene	400		960	815		ug/Kg	☼	43	31 - 130
2-Methylnaphthalene	510		960	838		ug/Kg	☼	34	33 - 130
Naphthalene	210	J	960	759		ug/Kg	☼	57	36 - 130
Phenanthrene	540	F	960	820	F	ug/Kg	☼	29	42 - 130
Pyrene	290		960	834		ug/Kg	☼	56	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	65		30 - 130

Lab Sample ID: 680-88348-4 MSD

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: CV0093A-CS

Prep Type: Total/NA

Prep Batch: 135570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	580	U	970	803		ug/Kg	☼	83	39 - 130	7	40
Acenaphthylene	230	U	970	842		ug/Kg	☼	87	38 - 130	5	40
Anthracene	42	J	970	768		ug/Kg	☼	75	37 - 130	5	40
Benzo[a]anthracene	240		970	902		ug/Kg	☼	68	40 - 130	12	40
Benzo[a]pyrene	160		970	793		ug/Kg	☼	66	49 - 130	5	40
Benzo[b]fluoranthene	350		970	897		ug/Kg	☼	56	37 - 130	13	40
Benzo[g,h,i]perylene	200		970	798		ug/Kg	☼	62	32 - 130	14	40
Benzo[k]fluoranthene	93		970	830		ug/Kg	☼	76	32 - 130	12	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

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

Lab Sample ID: 680-88348-4 MSD

Matrix: Solid

Analysis Batch: 135643

Client Sample ID: CV0093A-CS

Prep Type: Total/NA

Prep Batch: 135570

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	550	F	970	781	F	ug/Kg	✱	24	41 - 130	4	40
Dibenz(a,h)anthracene	120		970	806		ug/Kg	✱	71	27 - 130	9	40
Fluoranthene	300		970	951		ug/Kg	✱	67	40 - 130	21	40
Fluorene	47	J	970	764		ug/Kg	✱	74	40 - 130	2	40
Indeno[1,2,3-cd]pyrene	110	J	970	767		ug/Kg	✱	68	30 - 130	18	40
1-Methylnaphthalene	400		970	915		ug/Kg	✱	53	31 - 130	12	40
2-Methylnaphthalene	510		970	938		ug/Kg	✱	44	33 - 130	11	40
Naphthalene	210	J	970	849		ug/Kg	✱	66	36 - 130	11	40
Phenanthrene	540	F	970	868	F	ug/Kg	✱	34	42 - 130	6	40
Pyrene	290		970	987		ug/Kg	✱	71	44 - 130	17	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	77		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

GC/MS Semi VOA

Prep Batch: 135556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-1	CV0021A-CS	Total/NA	Solid	3546	
680-88348-2	CV0021A-CSD	Total/NA	Solid	3546	
680-88348-3	CV0021B-CS	Total/NA	Solid	3546	
680-88348-5	CV0093B-CS	Total/NA	Solid	3546	
680-88348-6	CV0093C-CS	Total/NA	Solid	3546	
680-88348-7	CV0154A-CS	Total/NA	Solid	3546	
LCS 660-135556/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135556/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-4	CV0093A-CS	Total/NA	Solid	3546	
680-88348-4 MS	CV0093A-CS	Total/NA	Solid	3546	
680-88348-4 MSD	CV0093A-CS	Total/NA	Solid	3546	
680-88348-8	CV0154B-CS	Total/NA	Solid	3546	
680-88348-9	CV1241A-CS	Total/NA	Solid	3546	
680-88348-10	CV1241A-CSD	Total/NA	Solid	3546	
680-88348-11	CV1241B-CS	Total/NA	Solid	3546	
680-88348-12	CV1241C-CS	Total/NA	Solid	3546	
680-88348-13	CV1241D-GS	Total/NA	Solid	3546	
680-88348-14	FM0170A-CS	Total/NA	Solid	3546	
680-88348-15	FM0170A-CSD	Total/NA	Solid	3546	
680-88348-16	FM0170B-CS	Total/NA	Solid	3546	
680-88348-17	FM0306A-CS	Total/NA	Solid	3546	
680-88348-18	FM0124A-CS	Total/NA	Solid	3546	
680-88348-19	FM0124B-CS	Total/NA	Solid	3546	
680-88348-20	FM0124C-CS	Total/NA	Solid	3546	
LCS 660-135570/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135570/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-4	CV0093A-CS	Total/NA	Solid	8270C LL	135570
680-88348-4 MS	CV0093A-CS	Total/NA	Solid	8270C LL	135570
680-88348-4 MSD	CV0093A-CS	Total/NA	Solid	8270C LL	135570
680-88348-8	CV0154B-CS	Total/NA	Solid	8270C LL	135570
680-88348-9	CV1241A-CS	Total/NA	Solid	8270C LL	135570
680-88348-10	CV1241A-CSD	Total/NA	Solid	8270C LL	135570
680-88348-11	CV1241B-CS	Total/NA	Solid	8270C LL	135570
680-88348-12	CV1241C-CS	Total/NA	Solid	8270C LL	135570
680-88348-13	CV1241D-GS	Total/NA	Solid	8270C LL	135570
680-88348-14	FM0170A-CS	Total/NA	Solid	8270C LL	135570
680-88348-15	FM0170A-CSD	Total/NA	Solid	8270C LL	135570
680-88348-16	FM0170B-CS	Total/NA	Solid	8270C LL	135570
680-88348-17	FM0306A-CS	Total/NA	Solid	8270C LL	135570
680-88348-18	FM0124A-CS	Total/NA	Solid	8270C LL	135570
680-88348-19	FM0124B-CS	Total/NA	Solid	8270C LL	135570
680-88348-20	FM0124C-CS	Total/NA	Solid	8270C LL	135570
LCS 660-135556/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135556
LCS 660-135570/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135570
MB 660-135556/1-A	Method Blank	Total/NA	Solid	8270C LL	135556

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

GC/MS Semi VOA (Continued)

Analysis Batch: 135643 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-135570/1-A	Method Blank	Total/NA	Solid	8270C LL	135570

Analysis Batch: 135753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-1	CV0021A-CS	Total/NA	Solid	8270C LL	135556
680-88348-3	CV0021B-CS	Total/NA	Solid	8270C LL	135556

Analysis Batch: 135792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-2	CV0021A-CSD	Total/NA	Solid	8270C LL	135556
680-88348-5	CV0093B-CS	Total/NA	Solid	8270C LL	135556
680-88348-6	CV0093C-CS	Total/NA	Solid	8270C LL	135556
680-88348-7	CV0154A-CS	Total/NA	Solid	8270C LL	135556

General Chemistry

Analysis Batch: 135482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-5	CV0093B-CS	Total/NA	Solid	Moisture	
680-88348-6	CV0093C-CS	Total/NA	Solid	Moisture	
680-88348-7	CV0154A-CS	Total/NA	Solid	Moisture	
680-88348-8	CV0154B-CS	Total/NA	Solid	Moisture	
680-88348-9	CV1241A-CS	Total/NA	Solid	Moisture	
680-88348-10	CV1241A-CSD	Total/NA	Solid	Moisture	
680-88348-11	CV1241B-CS	Total/NA	Solid	Moisture	
680-88348-12	CV1241C-CS	Total/NA	Solid	Moisture	
680-88348-13	CV1241D-GS	Total/NA	Solid	Moisture	
680-88348-14	FM0170A-CS	Total/NA	Solid	Moisture	
680-88348-15	FM0170A-CSD	Total/NA	Solid	Moisture	
680-88348-16	FM0170B-CS	Total/NA	Solid	Moisture	
680-88348-17	FM0306A-CS	Total/NA	Solid	Moisture	
680-88348-18	FM0124A-CS	Total/NA	Solid	Moisture	
680-88348-19	FM0124B-CS	Total/NA	Solid	Moisture	
680-88348-20	FM0124C-CS	Total/NA	Solid	Moisture	
MB 660-135482/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 135489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88348-1	CV0021A-CS	Total/NA	Solid	Moisture	
680-88348-2	CV0021A-CSD	Total/NA	Solid	Moisture	
680-88348-3	CV0021B-CS	Total/NA	Solid	Moisture	
680-88348-4	CV0093A-CS	Total/NA	Solid	Moisture	
680-88348-4 MS	CV0093A-CS	Total/NA	Solid	Moisture	
680-88348-4 MSD	CV0093A-CS	Total/NA	Solid	Moisture	
LCS 660-135489/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135489/16	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0021A-CS

Lab Sample ID: 680-88348-1

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135753	03/25/13 21:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135489	03/18/13 08:07	AG	TAL TAM

Client Sample ID: CV0021A-CSD

Lab Sample ID: 680-88348-2

Date Collected: 03/13/13 09:10

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135792	03/26/13 12:47	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135489	03/18/13 08:01	AG	TAL TAM

Client Sample ID: CV0021B-CS

Lab Sample ID: 680-88348-3

Date Collected: 03/13/13 09:23

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135753	03/25/13 22:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135489	03/18/13 08:24	AG	TAL TAM

Client Sample ID: CV0093A-CS

Lab Sample ID: 680-88348-4

Date Collected: 03/13/13 10:32

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 69.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135643	03/21/13 13:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135489	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0093B-CS

Lab Sample ID: 680-88348-5

Date Collected: 03/13/13 10:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135792	03/26/13 13:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV0093C-CS

Lab Sample ID: 680-88348-6

Date Collected: 03/13/13 10:51

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135792	03/26/13 12:02	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0154A-CS

Lab Sample ID: 680-88348-7

Date Collected: 03/13/13 09:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 71.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135556	03/20/13 08:31	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135792	03/26/13 12:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV0154B-CS

Lab Sample ID: 680-88348-8

Date Collected: 03/13/13 09:56

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 14:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1241A-CS

Lab Sample ID: 680-88348-9

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 59.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 15:14	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1241A-CSD

Lab Sample ID: 680-88348-10

Date Collected: 03/13/13 10:35

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 15:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: CV1241B-CS

Lab Sample ID: 680-88348-11

Date Collected: 03/13/13 10:45

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 66.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 15:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1241C-CS

Lab Sample ID: 680-88348-12

Date Collected: 03/13/13 10:55

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 16:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: CV1241D-GS

Lab Sample ID: 680-88348-13

Date Collected: 03/13/13 11:05

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 54.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 16:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0170A-CS

Lab Sample ID: 680-88348-14

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 16:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0170A-CSD

Lab Sample ID: 680-88348-15

Date Collected: 03/13/13 09:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 17:05	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88348-1
 SDG: 68088348-1

Client Sample ID: FM0170B-CS

Lab Sample ID: 680-88348-16

Date Collected: 03/13/13 09:50

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 17:23	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0306A-CS

Lab Sample ID: 680-88348-17

Date Collected: 03/13/13 09:00

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 60.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 17:42	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0124A-CS

Lab Sample ID: 680-88348-18

Date Collected: 03/13/13 12:20

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 55.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135643	03/21/13 18:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0124B-CS

Lab Sample ID: 680-88348-19

Date Collected: 03/13/13 12:30

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 65.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 18:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Client Sample ID: FM0124C-CS

Lab Sample ID: 680-88348-20

Date Collected: 03/13/13 12:40

Matrix: Solid

Date Received: 03/15/13 10:03

Percent Solids: 63.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135570	03/20/13 10:22	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135643	03/21/13 18:37	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135482	03/18/13 08:34	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Savannah

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35TH AVE REMOVAL	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1	OF 3
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TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.	COMPOSITE () GRAB () INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
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CLIENT NAME (b) (6)	CLIENT PHONE	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
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CLIENT ADDRESS (b) (6)	COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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CLIENT ADDRESS (b) (6)	COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
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DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE () GRAB ()	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
2/13/13	0910	CV08021A-CS	C	✓			X		
	0910	CV08021A-CS0	C	✓			XX		
	0923	CV08021B-CS	C	✓			XX		
	1032	CV08093A-CS	C	✓			XX	X	
	1040	CV08093B-CS	C	✓			XX		
	1051	CV08093C-CS	C	✓			XX		
	0945	CV08154A-CS	C	✓			XX		
	0956	CV08154B-CS	C	✓			XX		
	1035	CV1241A-CS	C	✓			XX		
	1035	CV1241A-CS0	C	✓			XX		
	1045	CV1241B-CS	C	✓			XX		
	1055	CV1241C-CS	C	✓			XX		

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-14-13	TIME 1200	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/15/13	TIME 0924	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88248	LABORATORY REMARKS 3.8
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(b) (6)
(b) (6)

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3/27/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35TH AVE REMOVAL	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2	OF 3
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TAL (LAB) PROJECT MANAGER LSA HARVEY	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OF GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLEPH PCRA-B METALS PRESERVATIVE	STANDARD REPORT DELIVERY <input type="checkbox"/>
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CLIENT NAME	CLIENT E-MAIL	CLIENT FAX	DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE
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CLIENT ADDRESS (b) (6)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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COMPANY CONTRACTING THIS WORK (if applicable)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OF GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME							1	2	3	4	
3/13/13	1105	CV12410-GS	C	✓			X					
	0940	FMØ178A-CS	C	✓			X					
	0940	FMØ170A-CSØ	C	✓			X					
	0950	FMØ178B-CS	C	✓			X					
	0900	FMØ386A-CS	C	✓			X	X				
	1220	FMØ124A-CS	C	✓			X	X				
	1230	FMØ124B-CS	C	✓			X	X				
	1240	FMØ124C-CS	C	✓			X	X				
	1315	FMØ333A-CS BD 3/15/13 FMØ315A-CS	C	✓			X	X				
	1350	CV1886A-CS	C	✓			X	X				
	1222	CV0257A-CS	C	✓			X	X				
	1223	CV0257A-CSØ	C	✓			X	X				

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-14-13	TIME 1200	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
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RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
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LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/15/13	TIME 0924	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680 - 88348	LABORATORY REMARKS 7.8°
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(b) (6)
(b) (6)

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3/27/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

SDG Number: 68088348-1

Login Number: 88348

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88348-1

SDG Number: 68088348-1

Login Number: 88348

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 03/16/13 09:39 AM

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 leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-88348-1
 SDG: 68088348-1

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	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88348-1
SDG: 68088348-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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