

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

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

Project No: 15268508.20000
 Job ID.: 680-90686-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 05/22/2013
 Date: 06/19/2013
 Date: 06/19/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 680-90622-15 (052113-RB-Shovel).	
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, 680-	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				90622-15 (052113-RB-Shovel) was collected during the week of 5/17/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-90622-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> CV0986A-CSD (680-90686-2) is a field duplicate of CV0986A-CS (680-90686-1). CV1034A-CSD (680-90686-9) is a field duplicate of CV1034A-CS (680-90686-8). 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample analysis. A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> Instrument ID: BSMA5973 Initial Calibration: 05/23/2013 ICV: 05/23/13 @ 14:37 CCV: 05/29/13 @ 15:18 Instrument ID: BSMD5973 Initial Calibration: 05/23/2013 ICV: 05/23/13 @ 15:41 CCV: 06/05/13 @ 11:54 	
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 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> o If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects o If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects.			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 137845: 680-90686-7 (CV0992B-CS), MS/MSD • Prep Batch 137947: 680-90686-22 (Batch sample), MS/MSD. Lab sample 680-90686-22 is a project-specific sample (CV0996A-CS) that was selected by TestAmerica for the PAH MS/MSD analyses, and the results were reported under Job ID 680-90686-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD $\%R < 10$: J and R Flag positive and ND results, respectively • MS and MSD $\%R > 10$ and $< \text{LCL}$: J-Flag positive and UJ-flag non-detect results • MS and MSD $R\% > \text{UCL}$ (or 140): J-Flag positive results 		✓		CV0992B-CS (680-90686-7): <ul style="list-style-type: none"> • Acenaphthene @ 47 and 33 %R (39-130). Qualification of data not required³. • Acenaphthylene @ 43 and 34 %R (38-130). Qualification of data not required³. • Anthracene @ 43 and 32 %R (37-130). Qualification of data not required³. • Benzo[a]anthracene @ 59 and 16 %R (40-130). Qualification of data not required³. • Benzo[a]pyrene @ 45 and 18 %R (49-130). J-Flag. • Benzo[b]fluoranthene @ 48 and -3 %R (37-130). Qualification of data not required³. • Benzo[g,h,i]perylene @ 32 and 10 %R (32-130). Qualification of data not required³. 	J

³ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> Chrysene @ 83 and 18 %R (41-130). Qualification of data not required³. Dibenz(a,h)anthracene @ 37 and 21 %R (27-130). Qualification of data not required³. Indeno[1,2,3-cd]pyrene @ 25 and 10 %R (30-130). J-Flag sample result. Fluoranthene @ 55 and 24 %R (40-130). Qualification of data not required³. Fluorene @ 46 and 36 %R (40-130). Qualification of data not required³. Phenanthrene @ 55 and 24 %R (42-130). Qualification of data not required³. Pyrene @ 61 and 9 %R (44-130). Qualification of data not required³. 	
<p>26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result. 		✓		CV0992B-CS (680-90686-7): <ul style="list-style-type: none"> Benzo[g,h,i]perylene @ 41 %RPD (≤40). J-Flag Chrysene @ 46 %RPD (≤40). J-Flag 	J
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results. 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
<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: 680-90686-1
SDG: 68090686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90686-1	CV0986A-CS	Solid	05/22/13 08:55	05/24/13 08:40
680-90686-2	CV0986A-CSD	Solid	05/22/13 08:55	05/24/13 08:40
680-90686-3	CV0986B-CS	Solid	05/22/13 09:05	05/24/13 08:40
680-90686-4	CV0991A-CS	Solid	05/22/13 10:45	05/24/13 08:40
680-90686-5	CV0991B-CS	Solid	05/22/13 10:55	05/24/13 08:40
680-90686-6	CV0992A-CS	Solid	05/22/13 10:15	05/24/13 08:40
680-90686-7	CV0992B-CS	Solid	05/22/13 10:25	05/24/13 08:40
680-90686-8	CV1034A-CS	Solid	05/22/13 08:25	05/24/13 08:40
680-90686-9	CV1034A-CSD	Solid	05/22/13 08:25	05/24/13 08:40
680-90686-10	CV1073A-CS	Solid	05/22/13 09:30	05/24/13 08:40
680-90686-11	CV1073B-CS	Solid	05/22/13 09:40	05/24/13 08:40
680-90686-12	CV0543A-CS-SP	Solid	05/22/13 09:01	05/24/13 08:40
680-90686-13	CV0543B-CS-SP	Solid	05/22/13 09:14	05/24/13 08:40
680-90686-14	CV0543C-CS-SP	Solid	05/22/13 09:30	05/24/13 08:40
680-90686-15	HP0036A-CS-SP	Solid	05/22/13 10:20	05/24/13 08:40
680-90686-16	HP0036B-CS-SP	Solid	05/22/13 10:31	05/24/13 08:40
680-90686-17	HP0036C-CS-SP	Solid	05/22/13 10:45	05/24/13 08:40
680-90686-18	CV0990A-CS	Solid	05/22/13 12:35	05/24/13 08:40
680-90686-19	CV0990B-CS	Solid	05/22/13 12:45	05/24/13 08:40
680-90686-20	CV0990C-CS	Solid	05/22/13 12:55	05/24/13 08:40

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0986A-CS 680-90686-1	RL	CV0986A-CSD 680-90686-2	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	40	J 190	54	J 200	µg/kg	975	NA	14	390	None, absolute difference ≤ 2x Avg RL
Anthracene	73	40	120	41	µg/kg	202.5	NA	47	81	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	270	38	460	39	µg/kg	192.5	52	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	160	50	270	51	µg/kg	252.5	NA	110	101	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	250	58	430	60	µg/kg	295	NA	180	118	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	190	96	340	98	µg/kg	485	NA	150	194	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	86	38	99	39	µg/kg	192.5	NA	13	77	None, absolute difference ≤ 2x Avg RL
Chrysene	260	43	460	44	µg/kg	217.5	56	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene		U 96	130	98	µg/kg	485	NA	130	194	None, absolute difference ≤ 2x Avg RL
Fluoranthene	220	96	410	98	µg/kg	485	NA	190	194	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	140	96	230	98	µg/kg	485	NA	90	194	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	100	J 190	67	J 200	µg/kg	975	NA	33	390	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	150	J 190	100	J 200	µg/kg	975	NA	50	390	None, absolute difference ≤ 2x Avg RL
Naphthalene	120	J 190	120	J 200	µg/kg	975	NA	0	390	None, absolute difference ≤ 2x Avg RL
Phenanthrene	240	38	300	39	µg/kg	192.5	22	NA	NA	None, RPD ≤ 50%
Pyrene	270	96	380	98	µg/kg	485	NA	110	194	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

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.

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1034A-CS 680-90686-8	RL	CV1034A-CSD 680-90686-9	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	59	J 180	65	J 190	µg/kg	925	NA	6	370	None, absolute difference ≤ 2x Avg RL
Anthracene	110	37	120	39	µg/kg	190	NA	10	76	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	340	35	400	37	µg/kg	180	16	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	410	46	440	48	µg/kg	235	7	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	600	54	690	57	µg/kg	277.5	14	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	340	88	340	93	µg/kg	452.5	NA	0	181	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	220	35	220	37	µg/kg	180	0	NA	NA	None, RPD ≤ 50%
Chrysene	490	40	530	42	µg/kg	205	8	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	110	88	110	93	µg/kg	452.5	NA	0	181	None, absolute difference ≤ 2x Avg RL
Fluoranthene	620	88	710	93	µg/kg	452.5	14	NA	NA	None, RPD ≤ 50%
Fluorene	38	J 88	35	J 93	µg/kg	452.5	NA	3	181	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	310	88	310	93	µg/kg	452.5	NA	0	181	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	100	J 180	110	J 190	µg/kg	925	NA	10	370	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	170	J 180	160	J 190	µg/kg	925	NA	10	370	None, absolute difference ≤ 2x Avg RL
Naphthalene	130	J 180	130	J 190	µg/kg	925	NA	0	370	None, absolute difference ≤ 2x Avg RL
Phenanthrene	430	35	520	37	µg/kg	180	19	NA	NA	None, RPD ≤ 50%
Pyrene	530	88	610	93	µg/kg	452.5	14	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: 680-90686-1
SDG: 68090686-1

Job ID: 680-90686-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-1

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0986A-CS (680-90686-1), CV0986A-CSD (680-90686-2), CV0986B-CS (680-90686-3), CV0991A-CS (680-90686-4), CV0991B-CS (680-90686-5), CV0992A-CS (680-90686-6), CV0992B-CS (680-90686-7), CV1034A-CS (680-90686-8), CV1034A-CSD (680-90686-9), CV1073A-CS (680-90686-10), CV1073B-CS (680-90686-11), CV0543A-CS-SP (680-90686-12), CV0543B-CS-SP (680-90686-13), CV0543C-CS-SP (680-90686-14), HP0036A-CS-SP (680-90686-15), HP0036B-CS-SP (680-90686-16), HP0036C-CS-SP (680 90686 17), CV0990A CS (680-90686 18), CV0990B CS (680-90686 19) and CV0990C CS (680 90686 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/29/2013 and 05/31/2013 and analyzed on 05/29/2013 and 06/05/2013.

Samples CV0986A-CS (680-90686-1)[4X], CV0986A-CSD (680-90686-2)[4X], CV0986B-CS (680-90686-3)[4X], CV0991A-CS (680-90686-4)[4X], CV0991B-CS (680-90686-5)[4X], CV0992A-CS (680-90686-6)[4X], CV0992B-CS (680-90686-7)[4X], CV1034A-CS (680-90686-8)[4X], CV1034A-CSD (680-90686-9)[4X], CV1073B-CS (680-90686-11)[4X], CV0543A-CS-SP (680-90686-12)[4X], CV0543B-CS-SP (680-90686-13)[4X], CV0543C-CS-SP (680-90686-14)[4X], HP0036B-CS-SP (680-90686-16)[4X], HP0036C-CS-SP (680-90686-17)[4X], CV0990A-CS (680-90686-18)[4X], CV0990B-CS (680-90686-19)[4X] and CV0990C-CS (680-90686-20)[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 CV0992B-CS (680-90686-7) in batch 660-137876. Benzofg,h, jperylene and Chrysene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

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: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0986A-CS

Lab Sample ID: 680-90686-1

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Acenaphthylene	40	J	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Anthracene	73		40	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[a]anthracene	270		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[a]pyrene	160		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[b]fluoranthene	250		58	29	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[g,h,i]perylene	190		96	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[k]fluoranthene	86		38	17	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Chrysene	260		43	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Dibenz(a,h)anthracene	96	U	96	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Fluoranthene	220		96	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Fluorene	96	U	96	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Indeno[1,2,3-cd]pyrene	140		96	34	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
1-Methylnaphthalene	100	J	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
2-Methylnaphthalene	150	J	190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Naphthalene	120	J	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Phenanthrene	240		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Pyrene	270		96	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	43		30 - 130	05/29/13 06:31	05/29/13 20:30	4

Client Sample ID: CV0986A-CSD

Lab Sample ID: 680-90686-2

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Acenaphthylene	54	J	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Anthracene	120		41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[a]anthracene	460		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[a]pyrene	270		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[b]fluoranthene	430		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[g,h,i]perylene	340		98	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[k]fluoranthene	99		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Chrysene	460		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Dibenz(a,h)anthracene	130		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Fluoranthene	410		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Indeno[1,2,3-cd]pyrene	230		98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
1-Methylnaphthalene	67	J	200	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
2-Methylnaphthalene	100	J	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Naphthalene	120	J	200	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Phenanthrene	300		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Pyrene	380		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130	05/29/13 06:31	05/29/13 20:44	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0986B-CS

Lab Sample ID: 680-90686-3

Date Collected: 05/22/13 09:05

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J	500	99	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Acenaphthylene	59	J	200	25	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Anthracene	430		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[a]anthracene	1200		40	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[a]pyrene	610		52	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[b]fluoranthene	890		61	30	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[g,h,i]perylene	380		99	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[k]fluoranthene	330		40	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Chrysene	770		45	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Dibenz(a,h)anthracene	140		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Fluoranthene	1400		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Fluorene	120		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Indeno[1,2,3-cd]pyrene	340		99	35	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
1-Methylnaphthalene	140	J	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
2-Methylnaphthalene	210		200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Naphthalene	140	J	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Phenanthrene	1600		40	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Pyrene	1300		99	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				05/29/13 06:31	05/29/13 21:00	4

Client Sample ID: CV0991A-CS

Lab Sample ID: 680-90686-4

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Acenaphthylene	54	J	210	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Anthracene	100		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[a]anthracene	290		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[a]pyrene	190		55	27	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[b]fluoranthene	330		65	32	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[g,h,i]perylene	160		110	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Chrysene	320		48	24	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Fluoranthene	250		110	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Fluorene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Indeno[1,2,3-cd]pyrene	180		110	38	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
1-Methylnaphthalene	140	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
2-Methylnaphthalene	200	J	210	38	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Naphthalene	180	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Phenanthrene	340		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Pyrene	260		110	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	37		30 - 130				05/29/13 06:31	05/29/13 21:15	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0991B-CS

Lab Sample ID: 680-90686-5

Date Collected: 05/22/13 10:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Acenaphthylene	29	J	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Anthracene	64		40	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[a]anthracene	38	U	38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[a]pyrene	120		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[b]fluoranthene	230		58	29	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[g,h,i]perylene	98		95	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[k]fluoranthene	77		38	17	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Chrysene	360		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Dibenz(a,h)anthracene	95	U	95	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Fluoranthene	180		95	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Fluorene	22	J	95	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Indeno[1,2,3-cd]pyrene	130		95	34	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
1-Methylnaphthalene	230		190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
2-Methylnaphthalene	460		190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Naphthalene	470		190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Phenanthrene	410		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Pyrene	190		95	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	45		30 - 130				05/29/13 06:31	05/29/13 21:30	4

Client Sample ID: CV0992A-CS

Lab Sample ID: 680-90686-6

Date Collected: 05/22/13 10:15

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 76.2

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	☼	05/29/13 06:31	05/29/13 21:45	4
Acenaphthylene	35	J	210	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Anthracene	57		43	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[a]anthracene	41	U	41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[a]pyrene	180		54	27	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[b]fluoranthene	320		63	31	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[g,h,i]perylene	120		100	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Chrysene	330		46	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Fluoranthene	200		100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Fluorene	100	U	100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Indeno[1,2,3-cd]pyrene	100	U	100	37	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
2-Methylnaphthalene	160	J	210	37	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Naphthalene	130	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Phenanthrene	230		41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Pyrene	220		100	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	43		30 - 130				05/29/13 06:31	05/29/13 21:45	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0992B-CS

Lab Sample ID: 680-90686-7

Date Collected: 05/22/13 10:25

Matrix: Solid

Date Received: 05/24/13 08:40

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	150	J F	660	130	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Acenaphthylene	78	J F	260	33	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Anthracene	420	F	55	28	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[a]anthracene	1300	F	53	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[a]pyrene	670	F	69	34	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[b]fluoranthene	1200	F	80	40	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[g,h,i]perylene	370	F	130	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[k]fluoranthene	300	F	53	24	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Chrysene	990	F	59	30	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Dibenz(a,h)anthracene	150	F	130	27	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Fluoranthene	1500	F	130	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Fluorene	130	F	130	27	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Indeno[1,2,3-cd]pyrene	390	F	130	47	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
1-Methylnaphthalene	240	J	260	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
2-Methylnaphthalene	300	F	260	47	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Naphthalene	270	F	260	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Phenanthrene	1500	F	53	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Pyrene	1400	F	130	24	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	32		30 - 130				05/29/13 06:31	05/29/13 22:00	4

Client Sample ID: CV1034A-CS

Lab Sample ID: 680-90686-8

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	88	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Acenaphthylene	59	J	180	22	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Anthracene	110	F	37	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[a]anthracene	340	F	35	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[a]pyrene	410	F	46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[b]fluoranthene	600	F	54	27	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[g,h,i]perylene	340	F	88	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[k]fluoranthene	220	F	35	16	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Chrysene	490	F	40	20	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Dibenz(a,h)anthracene	110	F	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Fluoranthene	620	F	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Fluorene	38	J	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Indeno[1,2,3-cd]pyrene	310	F	88	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
1-Methylnaphthalene	100	J	180	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
2-Methylnaphthalene	170	J	180	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Naphthalene	130	J	180	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Phenanthrene	430	F	35	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Pyrene	530	F	88	16	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		30 - 130				05/31/13 10:03	06/05/13 16:48	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV1034A-CSD

Lab Sample ID: 680-90686-9

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	93	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Acenaphthylene	65	J	190	23	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Anthracene	120		39	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[a]anthracene	400		37	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[a]pyrene	440		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[b]fluoranthene	690		57	28	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[g,h,i]perylene	340		93	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[k]fluoranthene	220		37	17	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Chrysene	530		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Dibenz(a,h)anthracene	110		93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Fluoranthene	710		93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Fluorene	35	J	93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Indeno[1,2,3-cd]pyrene	310		93	33	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
1-Methylnaphthalene	110	J	190	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
2-Methylnaphthalene	160	J	190	33	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Naphthalene	130	J	190	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Phenanthrene	520		37	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Pyrene	610		93	17	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130				05/31/13 10:03	06/05/13 17:10	4

Client Sample ID: CV1073A-CS

Lab Sample ID: 680-90686-10

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Acenaphthylene	6.4	J	49	6.1	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Anthracene	15		10	5.1	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[a]anthracene	61		9.7	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[a]pyrene	71		13	6.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[b]fluoranthene	120		15	7.4	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[g,h,i]perylene	47		24	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[k]fluoranthene	37		9.7	4.4	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Chrysene	89		11	5.5	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Dibenz(a,h)anthracene	18	J	24	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Fluoranthene	150		24	4.9	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Fluorene	6.0	J	24	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Indeno[1,2,3-cd]pyrene	53		24	8.6	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
1-Methylnaphthalene	10	J	49	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
2-Methylnaphthalene	15	J	49	8.6	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Naphthalene	17	J	49	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Phenanthrene	65		9.7	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Pyrene	100		24	4.5	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		30 - 130				05/31/13 10:03	06/05/13 17:33	1

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV1073B-CS

Lab Sample ID: 680-90686-11

Date Collected: 05/22/13 09:40

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 77.8

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	☼	05/31/13 10:03	06/05/13 17:55	4
Acenaphthylene	31	J	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Anthracene	48		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[a]anthracene	170		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[a]pyrene	190		53	26	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[b]fluoranthene	280		62	31	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[g,h,i]perylene	120		100	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[k]fluoranthene	84		41	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Chrysene	240		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Fluoranthene	280		100	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Fluorene	24	J	100	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Indeno[1,2,3-cd]pyrene	150		100	36	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
2-Methylnaphthalene	130	J	200	36	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Naphthalene	97	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Phenanthrene	230		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Pyrene	230		100	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130				05/31/13 10:03	06/05/13 17:55	4

Client Sample ID: CV0543A-CS-SP

Lab Sample ID: 680-90686-12

Date Collected: 05/22/13 09:01

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 64.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	210	J	610	120	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Acenaphthylene	100	J	240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Anthracene	550		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[a]anthracene	960		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[a]pyrene	940		63	32	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[b]fluoranthene	1500		74	37	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[g,h,i]perylene	530		120	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[k]fluoranthene	510		49	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Chrysene	1200		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Dibenz(a,h)anthracene	170		120	25	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Fluoranthene	2100		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Fluorene	210		120	25	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Indeno[1,2,3-cd]pyrene	560		120	43	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
1-Methylnaphthalene	240		240	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
2-Methylnaphthalene	350		240	43	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Naphthalene	370		240	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Phenanthrene	1900		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Pyrene	1700		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		30 - 130				05/31/13 10:03	06/05/13 18:18	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0543B-CS-SP

Lab Sample ID: 680-90686-13

Date Collected: 05/22/13 09:14

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Acenaphthylene	72	J	220	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Anthracene	110		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[a]anthracene	290		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[a]pyrene	330		56	28	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[b]fluoranthene	580		66	33	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[g,h,i]perylene	210		110	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[k]fluoranthene	170		43	20	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Chrysene	410		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Dibenz(a,h)anthracene	96	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Fluoranthene	400		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Fluorene	110	U	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Indeno[1,2,3-cd]pyrene	250		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
1-Methylnaphthalene	180	J	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
2-Methylnaphthalene	230		220	38	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Naphthalene	170	J	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Phenanthrene	310		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Pyrene	350		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		30 - 130				05/31/13 10:03	06/05/13 18:41	4

Client Sample ID: CV0543C-CS-SP

Lab Sample ID: 680-90686-14

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Acenaphthylene	260		240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Anthracene	540		50	25	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[a]anthracene	690		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[a]pyrene	790		62	31	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[b]fluoranthene	1500		72	36	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[g,h,i]perylene	500		120	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[k]fluoranthene	500		47	21	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Chrysene	990		53	27	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Dibenz(a,h)anthracene	200		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Fluoranthene	1100		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Fluorene	72	J	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Indeno[1,2,3-cd]pyrene	520		120	42	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
1-Methylnaphthalene	330		240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
2-Methylnaphthalene	420		240	42	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Naphthalene	410		240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Phenanthrene	950		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Pyrene	1200		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		30 - 130				05/31/13 10:03	06/05/13 19:03	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: HP0036A-CS-SP

Lab Sample ID: 680-90686-15

Date Collected: 05/22/13 10:20

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	30	J	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Acenaphthylene	76		47	5.9	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Anthracene	120		9.9	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[a]anthracene	650		9.4	4.6	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[a]pyrene	980		12	6.1	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[b]fluoranthene	1500		14	7.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[g,h,i]perylene	670		24	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[k]fluoranthene	510		9.4	4.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Chrysene	880		11	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Dibenz(a,h)anthracene	200		24	4.8	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Fluoranthene	900		24	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Fluorene	33		24	4.8	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Indeno[1,2,3-cd]pyrene	620		24	8.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
1-Methylnaphthalene	83		47	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
2-Methylnaphthalene	130		47	8.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Naphthalene	440		47	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Phenanthrene	450		9.4	4.6	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Pyrene	820		24	4.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				05/31/13 10:03	06/05/13 19:26	1

Client Sample ID: HP0036B-CS-SP

Lab Sample ID: 680-90686-16

Date Collected: 05/22/13 10:31

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Acenaphthylene	72	J	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Anthracene	78		41	21	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[a]anthracene	250		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[a]pyrene	330		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[b]fluoranthene	500		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[g,h,i]perylene	210		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[k]fluoranthene	180		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Chrysene	350		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Dibenz(a,h)anthracene	84	J	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Fluoranthene	390		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Fluorene	99	U	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Indeno[1,2,3-cd]pyrene	240		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
1-Methylnaphthalene	74	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
2-Methylnaphthalene	120	J	200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Naphthalene	140	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Phenanthrene	260		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Pyrene	320		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130				05/31/13 10:03	06/05/13 19:48	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: HP0036C-CS-SP

Lab Sample ID: 680-90686-17

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Acenaphthylene	79	J	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Anthracene	160		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[a]anthracene	510		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[a]pyrene	500		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[b]fluoranthene	840		65	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[g,h,i]perylene	270		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[k]fluoranthene	310		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Chrysene	730		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Dibenz(a,h)anthracene	110		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Fluoranthene	900		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Fluorene	49	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Indeno[1,2,3-cd]pyrene	300		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
1-Methylnaphthalene	170	J	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
2-Methylnaphthalene	270		210	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Naphthalene	290		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Phenanthrene	650		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Pyrene	720		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		30 - 130				05/31/13 10:03	06/05/13 20:11	4

Client Sample ID: CV0990A-CS

Lab Sample ID: 680-90686-18

Date Collected: 05/22/13 12:35

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J	450	91	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Acenaphthylene	85	J	180	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Anthracene	330		38	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[a]anthracene	1500		36	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[a]pyrene	1300		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[b]fluoranthene	2200		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[g,h,i]perylene	580		91	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[k]fluoranthene	790		36	16	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Chrysene	1600		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Dibenz(a,h)anthracene	230		91	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Fluoranthene	3100		91	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Fluorene	75	J	91	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Indeno[1,2,3-cd]pyrene	630		91	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
1-Methylnaphthalene	100	J	180	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
2-Methylnaphthalene	140	J	180	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Naphthalene	110	J	180	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Phenanthrene	1700		36	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Pyrene	2300		91	17	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		30 - 130				05/31/13 10:03	06/05/13 20:33	4

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

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0990B-CS

Lab Sample ID: 680-90686-19

Date Collected: 05/22/13 12:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Acenaphthylene	71	J	210	27	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Anthracene	200		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[a]anthracene	830		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[a]pyrene	810		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[b]fluoranthene	1400		65	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[g,h,i]perylene	470		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[k]fluoranthene	440		43	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Chrysene	1100		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Dibenz(a,h)anthracene	180		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Fluoranthene	1500		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Fluorene	73	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Indeno[1,2,3-cd]pyrene	480		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
1-Methylnaphthalene	340		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
2-Methylnaphthalene	440		210	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Naphthalene	230		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Phenanthrene	1200		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Pyrene	1200		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130				05/31/13 10:03	06/05/13 20:56	4

Client Sample ID: CV0990C-CS

Lab Sample ID: 680-90686-20

Date Collected: 05/22/13 12:55

Matrix: Solid

Date Received: 05/24/13 08:40

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	280	J	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Acenaphthylene	190	J	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Anthracene	830		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[a]anthracene	2500		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[a]pyrene	2600		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[b]fluoranthene	4100		64	32	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[g,h,i]perylene	1300		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[k]fluoranthene	1500		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Chrysene	2900		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Dibenz(a,h)anthracene	450		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Fluoranthene	5100		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Fluorene	270		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Indeno[1,2,3-cd]pyrene	1300		110	37	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
1-Methylnaphthalene	430		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
2-Methylnaphthalene	600		210	37	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Naphthalene	340		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Phenanthrene	3400		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Pyrene	3900		110	19	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		30 - 130				05/31/13 10:03	06/05/13 21:19	4

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

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-90686-1

SDG Number: 68090686-1

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
6/6/2013 6:47 PM

Designee for
Lisa Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
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06/06/2013

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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Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Sample Summary	5
Method Summary	6
Method / Analyst Summary	7
Data Qualifiers	8
QC Association Summary	9
Manual Integration Summary	12
Organic Sample Data	30
GC/MS Semi VOA	30
Method 8270C Low Level	30
Method 8270C Low Level QC Summary	31
Method 8270C Low Level Sample Data	52
Standards Data	506
Method 8270C Low Level ICAL Data	506
Method 8270C Low Level CCAL Data	594
Raw QC Data	613
Method 8270C Low Level Tune Data	613
Method 8270C Low Level Blank Data	633
Method 8270C Low Level LCS/LCSD Data	639
Method 8270C Low Level MS/MSD Data	656
Method 8270C Low Level Run Logs	680
Method 8270C Low Level Prep Data	684
Inorganic Sample Data	690
General Chemistry Data	690

Table of Contents

Gen Chem Cover Page	691
Gen Chem MDL	692
Gen Chem Analysis Run Log	694
Gen Chem Prep Data	696
Shipping and Receiving Documents	698
Client Chain of Custody	699
Sample Receipt Checklist	701

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-1

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0986A-CS (680-90686-1), CV0986A-CSD (680-90686-2), CV0986B-CS (680-90686-3), CV0991A-CS (680-90686-4), CV0991B-CS (680-90686-5), CV0992A-CS (680-90686-6), CV0992B-CS (680-90686-7), CV1034A-CS (680-90686-8), CV1034A-CSD (680-90686-9), CV1073A-CS (680-90686-10), CV1073B-CS (680-90686-11), CV0543A-CS-SP (680-90686-12), CV0543B-CS-SP (680-90686-13), CV0543C-CS-SP (680-90686-14), HP0036A-CS-SP (680-90686-15), HP0036B-CS-SP (680-90686-16), HP0036C-CS-SP (680-90686-17), CV0990A-CS (680-90686-18), CV0990B-CS (680-90686-19) and CV0990C-CS (680-90686-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/29/2013 and 05/31/2013 and analyzed on 05/29/2013 and 06/05/2013.

Samples CV0986A-CS (680-90686-1)[4X], CV0986A-CSD (680-90686-2)[4X], CV0986B-CS (680-90686-3)[4X], CV0991A-CS (680-90686-4)[4X], CV0991B-CS (680-90686-5)[4X], CV0992A-CS (680-90686-6)[4X], CV0992B-CS (680-90686-7)[4X], CV1034A-CS (680-90686-8)[4X], CV1034A-CSD (680-90686-9)[4X], CV1073B-CS (680-90686-11)[4X], CV0543A-CS-SP (680-90686-12)[4X], CV0543B-CS-SP (680-90686-13)[4X], CV0543C-CS-SP (680-90686-14)[4X], HP0036B-CS-SP (680-90686-16)[4X], HP0036C-CS-SP (680-90686-17)[4X], CV0990A-CS (680-90686-18)[4X], CV0990B-CS (680-90686-19)[4X] and CV0990C-CS (680-90686-20)[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 CV0992B-CS (680-90686-7) in batch 660-137876. Benzo[g,h,i]perylene and Chrysene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

Sdg Number: 68090686-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-90686-1	CV0986A-CS	Solid	05/22/2013 0855	05/24/2013 0840
680-90686-2	CV0986A-CSD	Solid	05/22/2013 0855	05/24/2013 0840
680-90686-3	CV0986B-CS	Solid	05/22/2013 0905	05/24/2013 0840
680-90686-4	CV0991A-CS	Solid	05/22/2013 1045	05/24/2013 0840
680-90686-5	CV0991B-CS	Solid	05/22/2013 1055	05/24/2013 0840
680-90686-6	CV0992A-CS	Solid	05/22/2013 1015	05/24/2013 0840
680-90686-7	CV0992B-CS	Solid	05/22/2013 1025	05/24/2013 0840
680-90686-7MS	CV0992B-CS	Solid	05/22/2013 1025	05/24/2013 0840
680-90686-7MSD	CV0992B-CS	Solid	05/22/2013 1025	05/24/2013 0840
680-90686-8	CV1034A-CS	Solid	05/22/2013 0825	05/24/2013 0840
680-90686-9	CV1034A-CSD	Solid	05/22/2013 0825	05/24/2013 0840
680-90686-10	CV1073A-CS	Solid	05/22/2013 0930	05/24/2013 0840
680-90686-11	CV1073B-CS	Solid	05/22/2013 0940	05/24/2013 0840
680-90686-12	CV0543A-CS-SP	Solid	05/22/2013 0901	05/24/2013 0840
680-90686-13	CV0543B-CS-SP	Solid	05/22/2013 0914	05/24/2013 0840
680-90686-14	CV0543C-CS-SP	Solid	05/22/2013 0930	05/24/2013 0840
680-90686-15	HP0036A-CS-SP	Solid	05/22/2013 1020	05/24/2013 0840
680-90686-16	HP0036B-CS-SP	Solid	05/22/2013 1031	05/24/2013 0840
680-90686-17	HP0036C-CS-SP	Solid	05/22/2013 1045	05/24/2013 0840
680-90686-18	CV0990A-CS	Solid	05/22/2013 1235	05/24/2013 0840
680-90686-19	CV0990B-CS	Solid	05/22/2013 1245	05/24/2013 0840
680-90686-20	CV0990C-CS	Solid	05/22/2013 1255	05/24/2013 0840

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1
Sdg Number: 68090686-1

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: 680-90686-1

Sdg Number: 68090686-1

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: 680-90686-1

Sdg Number: 68090686-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

Sdg Number: 68090686-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-137845					
LCS 660-137845/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137845/1-A	Method Blank	T	Solid	3546	
680-90686-1	CV0986A-CS	T	Solid	3546	
680-90686-2	CV0986A-CSD	T	Solid	3546	
680-90686-3	CV0986B-CS	T	Solid	3546	
680-90686-4	CV0991A-CS	T	Solid	3546	
680-90686-5	CV0991B-CS	T	Solid	3546	
680-90686-6	CV0992A-CS	T	Solid	3546	
680-90686-7	CV0992B-CS	T	Solid	3546	
680-90686-7MS	Matrix Spike	T	Solid	3546	
680-90686-7MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-137876					
LCS 660-137845/2-A	Lab Control Sample	T	Solid	8270C LL	660-137845
MB 660-137845/1-A	Method Blank	T	Solid	8270C LL	660-137845
680-90686-1	CV0986A-CS	T	Solid	8270C LL	660-137845
680-90686-2	CV0986A-CSD	T	Solid	8270C LL	660-137845
680-90686-3	CV0986B-CS	T	Solid	8270C LL	660-137845
680-90686-4	CV0991A-CS	T	Solid	8270C LL	660-137845
680-90686-5	CV0991B-CS	T	Solid	8270C LL	660-137845
680-90686-6	CV0992A-CS	T	Solid	8270C LL	660-137845
680-90686-7	CV0992B-CS	T	Solid	8270C LL	660-137845
680-90686-7MS	Matrix Spike	T	Solid	8270C LL	660-137845
680-90686-7MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137845
Prep Batch: 660-137947					
LCS 660-137947/2-A	Lab Control Sample	T	Solid	3546	
MB 660-137947/1-A	Method Blank	T	Solid	3546	
680-90686-8	CV1034A-CS	T	Solid	3546	
680-90686-9	CV1034A-CSD	T	Solid	3546	
680-90686-10	CV1073A-CS	T	Solid	3546	
680-90686-11	CV1073B-CS	T	Solid	3546	
680-90686-12	CV0543A-CS-SP	T	Solid	3546	
680-90686-13	CV0543B-CS-SP	T	Solid	3546	
680-90686-14	CV0543C-CS-SP	T	Solid	3546	
680-90686-15	HP0036A-CS-SP	T	Solid	3546	
680-90686-16	HP0036B-CS-SP	T	Solid	3546	
680-90686-17	HP0036C-CS-SP	T	Solid	3546	
680-90686-18	CV0990A-CS	T	Solid	3546	
680-90686-19	CV0990B-CS	T	Solid	3546	
680-90686-20	CV0990C-CS	T	Solid	3546	
680-90686-A-22-B MS	Matrix Spike	T	Solid	3546	
680-90686-A-22-C MSD	Matrix Spike Duplicate	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

Sdg Number: 68090686-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-138106					
LCS 660-137947/2-A	Lab Control Sample	T	Solid	8270C LL	660-137947
MB 660-137947/1-A	Method Blank	T	Solid	8270C LL	660-137947
680-90686-8	CV1034A-CS	T	Solid	8270C LL	660-137947
680-90686-9	CV1034A-CSD	T	Solid	8270C LL	660-137947
680-90686-10	CV1073A-CS	T	Solid	8270C LL	660-137947
680-90686-11	CV1073B-CS	T	Solid	8270C LL	660-137947
680-90686-12	CV0543A-CS-SP	T	Solid	8270C LL	660-137947
680-90686-13	CV0543B-CS-SP	T	Solid	8270C LL	660-137947
680-90686-14	CV0543C-CS-SP	T	Solid	8270C LL	660-137947
680-90686-15	HP0036A-CS-SP	T	Solid	8270C LL	660-137947
680-90686-16	HP0036B-CS-SP	T	Solid	8270C LL	660-137947
680-90686-17	HP0036C-CS-SP	T	Solid	8270C LL	660-137947
680-90686-18	CV0990A-CS	T	Solid	8270C LL	660-137947
680-90686-19	CV0990B-CS	T	Solid	8270C LL	660-137947
680-90686-20	CV0990C-CS	T	Solid	8270C LL	660-137947
680-90686-A-22-B MS	Matrix Spike	T	Solid	8270C LL	660-137947
680-90686-A-22-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-137947

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

Sdg Number: 68090686-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-137827					
680-90686-1	CV0986A-CS	T	Solid	Moisture	
680-90686-2	CV0986A-CSD	T	Solid	Moisture	
680-90686-3	CV0986B-CS	T	Solid	Moisture	
680-90686-4	CV0991A-CS	T	Solid	Moisture	
680-90686-5	CV0991B-CS	T	Solid	Moisture	
680-90686-6	CV0992A-CS	T	Solid	Moisture	
680-90686-7	CV0992B-CS	T	Solid	Moisture	
680-90686-7MS	Matrix Spike	T	Solid	Moisture	
680-90686-7MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-90686-8	CV1034A-CS	T	Solid	Moisture	
680-90686-9	CV1034A-CSD	T	Solid	Moisture	
680-90686-10	CV1073A-CS	T	Solid	Moisture	
680-90686-11	CV1073B-CS	T	Solid	Moisture	
680-90686-12	CV0543A-CS-SP	T	Solid	Moisture	
680-90686-13	CV0543B-CS-SP	T	Solid	Moisture	
680-90686-14	CV0543C-CS-SP	T	Solid	Moisture	
680-90686-15	HP0036A-CS-SP	T	Solid	Moisture	
680-90686-16	HP0036B-CS-SP	T	Solid	Moisture	
680-90686-17	HP0036C-CS-SP	T	Solid	Moisture	
680-90686-18	CV0990A-CS	T	Solid	Moisture	
680-90686-19	CV0990B-CS	T	Solid	Moisture	
680-90686-20	CV0990C-CS	T	Solid	Moisture	
680-90686-A-22 MS	Matrix Spike	T	Solid	Moisture	
680-90686-A-22 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137743Lab Sample ID: IC 660-137743/3 Client Sample ID: _____Date Analyzed: 05/23/13 12:51 Lab File ID: 1AE23003.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Acenaphthylene	3.46	Baseline Event	cantins	05/23/
Anthracene	4.54	Baseline Event	cantins	05/23/
Fluoranthene	5.37	Baseline Event	cantins	05/23/
Pyrene	5.54	Baseline Event	cantins	05/23/
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.39	Baseline Event	cantins	05/23/
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/23/

Lab Sample ID: IC 660-137743/4 Client Sample ID: _____Date Analyzed: 05/23/13 13:06 Lab File ID: 1AE23004.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	2.53	Baseline Event	cantins	05/23/
1-Methylnaphthalene	2.99	Baseline Event	cantins	05/23/
1,1'-Biphenyl	3.22	Baseline Event	cantins	05/23/
Acenaphthylene	3.46	Baseline Event	cantins	05/23/
Dibenzofuran	3.67	Baseline Event	cantins	05/23/
Fluorene	3.88	Baseline Event	cantins	05/23/
Phenanthrene	4.50	Baseline Event	cantins	05/23/
Anthracene	4.54	Baseline Event	cantins	05/23/
Fluoranthene	5.37	Baseline Event	cantins	05/23/
Pyrene	5.54	Baseline Event	cantins	05/23/
Chrysene	6.52	Baseline Event	cantins	05/23/
Benzo[k]fluoranthene	7.34	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/23/
Benzo[g,h,i]perylene	8.55	Baseline Event	cantins	05/23/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137743Lab Sample ID: IC 660-137743/5 Client Sample ID: _____Date Analyzed: 05/23/13 13:21 Lab File ID: 1AE23005.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	2.53	Baseline Event	cantins	05/23/
1-Methylnaphthalene	2.99	Baseline Event	cantins	05/23/
1,1'-Biphenyl	3.22	Baseline Event	cantins	05/23/
Acenaphthylene	3.46	Baseline Event	cantins	05/23/
Dibenzofuran	3.67	Baseline Event	cantins	05/23/
Fluorene	3.88	Baseline Event	cantins	05/23/
Fluoranthene	5.37	Baseline Event	cantins	05/23/
Chrysene	6.53	Baseline Event	cantins	05/23/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/23/
Benzo[a]pyrene	7.54	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.33	Split Peak	cantins	05/23/
Dibenz(a,h)anthracene	8.36	Baseline Event	cantins	05/23/
Benzo[g,h,i]perylene	8.54	Baseline Event	cantins	05/23/

Lab Sample ID: IC 660-137743/6 Client Sample ID: _____Date Analyzed: 05/23/13 13:36 Lab File ID: 1AE23006.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[a]pyrene	7.54	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/23/

Lab Sample ID: ICIS 660-137743/7 Client Sample ID: _____Date Analyzed: 05/23/13 13:52 Lab File ID: 1AE23007.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	7.35	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	05/23/
Dibenz(a,h)anthracene	8.38	Baseline Event	cantins	05/23/
Benzo[g,h,i]perylene	8.57	Baseline Event	cantins	05/23/

Lab Sample ID: IC 660-137743/8 Client Sample ID: _____Date Analyzed: 05/23/13 14:07 Lab File ID: 1AE23008.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/23/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137743Lab Sample ID: IC 660-137743/9 Client Sample ID: _____Date Analyzed: 05/23/13 14:22 Lab File ID: 1AE23009.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenzofuran	3.68	Baseline Event	cantins	05/23/
Fluoranthene	5.38	Baseline Event	cantins	05/23/
Pyrene	5.55	Baseline Event	cantins	05/23/
Chrysene	6.54	Baseline Event	cantins	05/23/
Benzo[k]fluoranthene	7.36	Baseline Event	cantins	05/23/
Indeno[1,2,3-cd]pyrene	8.37	Split Peak	cantins	05/23/
Benzo[g,h,i]perylene	8.59	Baseline Event	cantins	05/23/

Lab Sample ID: ICV 660-137743/10 Client Sample ID: _____Date Analyzed: 05/23/13 14:37 Lab File ID: 1AE23010.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Fluoranthene	5.37	Baseline Event	cantins	05/23/
Benzo[k]fluoranthene	7.34	Baseline Event	cantins	05/23/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137876Lab Sample ID: CCVIS 660-137876/7 Client Sample ID: _____Date Analyzed: 05/29/13 15:18 Lab File ID: 1AE29006.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Acenaphthene	3.55	Baseline Event	cantins	05/29/
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	05/29/
Indeno[1,2,3-cd]pyrene	8.31	Split Peak	cantins	05/29/

Lab Sample ID: LCS 660-137845/2-A Client Sample ID: _____Date Analyzed: 05/29/13 16:58 Lab File ID: 1AE29012.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Naphthalene	2.52	Baseline Event	cantins	05/30/
2-Methylnaphthalene	2.92	Baseline Event	cantins	05/30/
1-Methylnaphthalene	2.98	Baseline Event	cantins	05/30/
Pyrene	5.51	Baseline Event	cantins	05/30/
Chrysene	6.51	Baseline Event	cantins	05/30/
Benzo[k]fluoranthene	7.31	Baseline Event	cantins	05/30/
Indeno[1,2,3-cd]pyrene	8.31	Split Peak	cantins	05/30/
Dibenz(a,h)anthracene	8.33	Baseline Event	cantins	05/30/
Benzo[g,h,i]perylene	8.52	Baseline Event	cantins	05/30/

Lab Sample ID: 680-90686-1 Client Sample ID: CV0986A-CSDate Analyzed: 05/29/13 20:30 Lab File ID: 1AE29026.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[a]anthracene	6.51	Split Peak	cantins	06/04/
Chrysene	6.52	Baseline Event	cantins	06/04/
Benzo[b]fluoranthene	7.31	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.32	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	8.34	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-2 Client Sample ID: CV0986A-CSDDate Analyzed: 05/29/13 20:44 Lab File ID: 1AE29027.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.32	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	8.34	Split Peak	cantins	06/04/
Dibenz(a,h)anthracene	8.36	Baseline Event	cantins	06/04/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137876Lab Sample ID: 680-90686-3 Client Sample ID: CV0986B-CSDate Analyzed: 05/29/13 21:00 Lab File ID: 1AE29028.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.32	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-4 Client Sample ID: CV0991A-CSDate Analyzed: 05/29/13 21:15 Lab File ID: 1AE29029.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[a]anthracene	6.51	Split Peak	cantins	06/04/
Chrysene	6.52	Baseline Event	cantins	06/04/
Benzo[b]fluoranthene	7.32	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	06/04/
Benzo[g,h,i]perylene	8.56	Baseline Event	cantins	06/04/

Lab Sample ID: 680-90686-5 Client Sample ID: CV0991B-CSDate Analyzed: 05/29/13 21:30 Lab File ID: 1AE29030.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.52	Baseline Event	cantins	06/04/
Benzo[b]fluoranthene	7.32	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	06/04/
Indeno[1,2,3-cd]pyrene	8.36	Split Peak	cantins	06/04/

Lab Sample ID: 680-90686-6 Client Sample ID: CV0992A-CSDate Analyzed: 05/29/13 21:45 Lab File ID: 1AE29031.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.52	Baseline Event	cantins	06/04/
Benzo[b]fluoranthene	7.32	Split Peak	cantins	06/04/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	06/04/

Lab Sample ID: 680-90686-7 Client Sample ID: CV0992B-CSDate Analyzed: 05/29/13 22:00 Lab File ID: 1AE29032.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.32	Split Peak	cantins	05/30/
Benzo[k]fluoranthene	7.34	Baseline Event	cantins	05/30/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/30/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Analysis Batch Number: 137876Lab Sample ID: 680-90686-7 MS Client Sample ID: CV0992B-CS MSDate Analyzed: 05/29/13 22:15 Lab File ID: 1AE29033.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.32	Split Peak	cantins	05/30/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/30/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/30/
Dibenz(a,h)anthracene	8.37	Baseline Event	cantins	05/30/

Lab Sample ID: 680-90686-7 MSD Client Sample ID: CV0992B-CS MSDDate Analyzed: 05/29/13 22:30 Lab File ID: 1AE29034.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.32	Split Peak	cantins	05/30/
Benzo[k]fluoranthene	7.33	Baseline Event	cantins	05/30/
Indeno[1,2,3-cd]pyrene	8.35	Split Peak	cantins	05/30/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

1

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMD5973 Analysis Batch Number: 137830Lab Sample ID: IC 660-137830/3 Client Sample ID: _____Date Analyzed: 05/23/13 13:03 Lab File ID: 1DE23003.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	15.15	Baseline Event	cantins	05/28/
Benzo[g,h,i]perylene	15.57	Baseline Event	cantins	05/28/

DB-5MS _____ ID: 250 (um)

1

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMD5973 Analysis Batch Number: 138106Lab Sample ID: 680-90686-A-22-B MS Client Sample ID: _____Date Analyzed: 06/05/13 14:10 Lab File ID: 1DF05009.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	06/05/

Lab Sample ID: 680-90686-8 Client Sample ID: CV1034A-CSDate Analyzed: 06/05/13 16:48 Lab File ID: 1DF05016.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-9 Client Sample ID: CV1034A-CSDDate Analyzed: 06/05/13 17:10 Lab File ID: 1DF05017.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-10 Client Sample ID: CV1073A-CSDate Analyzed: 06/05/13 17:33 Lab File ID: 1DF05018.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-11 Client Sample ID: CV1073B-CSDate Analyzed: 06/05/13 17:55 Lab File ID: 1DF05019.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-12 Client Sample ID: CV0543A-CS-SPDate Analyzed: 06/05/13 18:18 Lab File ID: 1DF05020.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-13 Client Sample ID: CV0543B-CS-SPDate Analyzed: 06/05/13 18:41 Lab File ID: 1DF05021.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMD5973 Analysis Batch Number: 138106Lab Sample ID: 680-90686-14 Client Sample ID: CV0543C-CS-SPDate Analyzed: 06/05/13 19:03 Lab File ID: 1DF05022.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-15 Client Sample ID: HP0036A-CS-SPDate Analyzed: 06/05/13 19:26 Lab File ID: 1DF05023.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.13	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-16 Client Sample ID: HP0036B-CS-SPDate Analyzed: 06/05/13 19:48 Lab File ID: 1DF05024.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.10	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-17 Client Sample ID: HP0036C-CS-SPDate Analyzed: 06/05/13 20:11 Lab File ID: 1DF05025.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-18 Client Sample ID: CV0990A-CSDate Analyzed: 06/05/13 20:33 Lab File ID: 1DF05026.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.11	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-19 Client Sample ID: CV0990B-CSDate Analyzed: 06/05/13 20:56 Lab File ID: 1DF05027.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/06/

Lab Sample ID: 680-90686-20 Client Sample ID: CV0990C-CSDate Analyzed: 06/05/13 21:19 Lab File ID: 1DF05028.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	15.12	Split Peak	cantins	06/06/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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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.: 680-90686-1

SDG No.: 68090686-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0986A-CS	680-90686-1	43
CV0986A-CSD	680-90686-2	46
CV0986B-CS	680-90686-3	40
CV0991A-CS	680-90686-4	37
CV0991B-CS	680-90686-5	45
CV0992A-CS	680-90686-6	43
CV0992B-CS	680-90686-7	32
CV1034A-CS	680-90686-8	86
CV1034A-CSD	680-90686-9	82
CV1073A-CS	680-90686-10	71
CV1073B-CS	680-90686-11	93
CV0543A-CS-SP	680-90686-12	106
CV0543B-CS-SP	680-90686-13	98
CV0543C-CS-SP	680-90686-14	99
HP0036A-CS-SP	680-90686-15	75
HP0036B-CS-SP	680-90686-16	100
HP0036C-CS-SP	680-90686-17	94
CV0990A-CS	680-90686-18	94
CV0990B-CS	680-90686-19	89
CV0990C-CS	680-90686-20	90
	MB 660-137845/1-A	49
	MB 660-137947/1-A	84
	LCS 660-137845/2-A	55
	LCS 660-137947/2-A	79
	680-90686-A-22-B MS	85
CV0992B-CS MS	680-90686-7 MS	35
	680-90686-A-22-C MSD	85
CV0992B-CS MSD	680-90686-7 MSD	31

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.: 680-90686-1
 SDG No.: 68090686-1
 Matrix: Solid Level: Low Lab File ID: 1AE29012.D
 Lab ID: LCS 660-137845/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	650	395	61	39-130	
Acenaphthylene	650	383	59	38-130	
Anthracene	650	362	56	37-130	
Benzo[a]anthracene	650	417	64	40-130	
Benzo[a]pyrene	650	320	49	49-130	
Benzo[b]fluoranthene	650	261	40	37-130	
Benzo[g,h,i]perylene	650	412	63	32-130	
Benzo[k]fluoranthene	650	368	57	32-130	
Chrysene	650	429	66	41-130	
Dibenz(a,h)anthracene	650	346	53	27-130	
Fluoranthene	650	328	50	40-130	
Fluorene	650	415	64	40-130	
Indeno[1,2,3-cd]pyrene	650	314	48	30-130	
1-Methylnaphthalene	650	428	66	31-130	
2-Methylnaphthalene	650	405	62	33-130	
Naphthalene	650	412	63	36-130	
Phenanthrene	650	396	61	42-130	
Pyrene	650	395	61	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1

SDG No.: 68090686-1

Matrix: Solid Level: Low Lab File ID: 1DF05007.D

Lab ID: LCS 660-137947/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	529	79	39-130	
Acenaphthylene	665	576	87	38-130	
Anthracene	665	591	89	37-130	
Benzo[a]anthracene	665	545	82	40-130	
Benzo[a]pyrene	665	521	78	49-130	
Benzo[b]fluoranthene	665	588	88	37-130	
Benzo[g,h,i]perylene	665	618	93	32-130	
Benzo[k]fluoranthene	665	562	84	32-130	
Chrysene	665	575	86	41-130	
Dibenz(a,h)anthracene	665	572	86	27-130	
Fluoranthene	665	572	86	40-130	
Fluorene	665	568	85	40-130	
Indeno[1,2,3-cd]pyrene	665	537	81	30-130	
1-Methylnaphthalene	665	505	76	31-130	
2-Methylnaphthalene	665	535	80	33-130	
Naphthalene	665	529	80	36-130	
Phenanthrene	665	569	85	42-130	
Pyrene	665	613	92	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.: 680-90686-1
 SDG No.: 68090686-1
 Matrix: Solid Level: Low Lab File ID: 1DF05009.D
 Lab ID: 680-90686-A-22-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	819	490 U	755	92	39-130	
Acenaphthylene	819	50 J	847	97	38-130	
Anthracene	819	77	874	97	37-130	
Benzo[a]anthracene	819	340	1060	88	40-130	
Benzo[a]pyrene	819	350	1020	82	49-130	
Benzo[b]fluoranthene	819	520	1210	84	37-130	
Benzo[g,h,i]perylene	819	340	1190	103	32-130	
Benzo[k]fluoranthene	819	200	977	95	32-130	
Chrysene	819	450	1200	92	41-130	
Dibenz(a,h)anthracene	819	110	888	95	27-130	
Fluoranthene	819	600	1300	85	40-130	
Fluorene	819	26 J	814	96	40-130	
Indeno[1,2,3-cd]pyrene	819	310	1100	96	30-130	
1-Methylnaphthalene	819	160 J	854	85	31-130	
2-Methylnaphthalene	819	200	940	90	33-130	
Naphthalene	819	150 J	844	85	36-130	
Phenanthrene	819	450	1220	94	42-130	
Pyrene	819	570	1370	97	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.: 680-90686-1
 SDG No.: 68090686-1
 Matrix: Solid Level: Low Lab File ID: 1AE29033.D
 Lab ID: 680-90686-7 MS Client ID: CV0992B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1100	150 J	671	47	39-130	
Acenaphthylene	1100	78 J	555	43	38-130	
Anthracene	1100	420	891	43	37-130	
Benzo[a]anthracene	1100	1300	1960	59	40-130	
Benzo[a]pyrene	1100	670	1160	45	49-130	F
Benzo[b]fluoranthene	1100	1200	1700	48	37-130	
Benzo[g,h,i]perylene	1100	370	721	32	32-130	
Benzo[k]fluoranthene	1100	300	741	40	32-130	
Chrysene	1100	990	1900	83	41-130	
Dibenz(a,h)anthracene	1100	150	552	37	27-130	
Fluoranthene	1100	1500	2110	55	40-130	
Fluorene	1100	130	632	46	40-130	
Indeno[1,2,3-cd]pyrene	1100	390	663	25	30-130	F
1-Methylnaphthalene	1100	240 J	734	45	31-130	
2-Methylnaphthalene	1100	300	935	58	33-130	
Naphthalene	1100	270	814	50	36-130	
Phenanthrene	1100	1500	2100	55	42-130	
Pyrene	1100	1400	2090	61	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.: 680-90686-1
 SDG No.: 68090686-1
 Matrix: Solid Level: Low Lab File ID: 1DF05010.D
 Lab ID: 680-90686-A-22-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	819	724	88	4	40	39-130	
Acenaphthylene	819	804	92	5	40	38-130	
Anthracene	819	844	94	4	40	37-130	
Benzo[a]anthracene	819	1030	84	3	40	40-130	
Benzo[a]pyrene	819	960	74	6	40	49-130	
Benzo[b]fluoranthene	819	1210	84	0	40	37-130	
Benzo[g,h,i]perylene	819	1090	91	9	40	32-130	
Benzo[k]fluoranthene	819	856	80	13	40	32-130	
Chrysene	819	1100	79	9	40	41-130	
Dibenz(a,h)anthracene	819	866	92	2	40	27-130	
Fluoranthene	819	1240	78	5	40	40-130	
Fluorene	819	786	93	3	40	40-130	
Indeno[1,2,3-cd]pyrene	819	1020	87	7	40	30-130	
1-Methylnaphthalene	819	795	77	7	40	31-130	
2-Methylnaphthalene	819	869	82	8	40	33-130	
Naphthalene	819	801	80	5	40	36-130	
Phenanthrene	819	1160	86	5	40	42-130	
Pyrene	819	1270	86	7	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.: 680-90686-1
 SDG No.: 68090686-1
 Matrix: Solid Level: Low Lab File ID: 1AE29034.D
 Lab ID: 680-90686-7 MSD Client ID: CV0992B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1100	521 J	33	25	40	39-130	F
Acenaphthylene	1100	447	34	22	40	38-130	F
Anthracene	1100	772	32	14	40	37-130	F
Benzo[a]anthracene	1100	1490	16	27	40	40-130	F
Benzo[a]pyrene	1100	864	18	30	40	49-130	F
Benzo[b]fluoranthene	1100	1140	-3	40	40	37-130	F
Benzo[g,h,i]perylene	1100	477	10	41	40	32-130	F
Benzo[k]fluoranthene	1100	708	37	5	40	32-130	
Chrysene	1100	1190	18	46	40	41-130	F
Dibenz(a,h)anthracene	1100	375	21	38	40	27-130	F
Fluoranthene	1100	1760	24	18	40	40-130	F
Fluorene	1100	530	36	18	40	40-130	F
Indeno[1,2,3-cd]pyrene	1100	504	10	27	40	30-130	F
1-Methylnaphthalene	1100	688	41	6	40	31-130	
2-Methylnaphthalene	1100	873	53	7	40	33-130	
Naphthalene	1100	767	45	6	40	36-130	
Phenanthrene	1100	1760	24	18	40	42-130	F
Pyrene	1100	1520	9	32	40	44-130	F

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1AE29009.D Lab Sample ID: MB 660-137845/1-A
 Matrix: Solid Date Extracted: 05/29/2013 06:31
 Instrument ID: BSMA5973 Date Analyzed: 05/29/2013 16:04
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137845/2-A	1AE29012.D	05/29/2013 16:58
CV0986A-CS	680-90686-1	1AE29026.D	05/29/2013 20:30
CV0986A-CSD	680-90686-2	1AE29027.D	05/29/2013 20:44
CV0986B-CS	680-90686-3	1AE29028.D	05/29/2013 21:00
CV0991A-CS	680-90686-4	1AE29029.D	05/29/2013 21:15
CV0991B-CS	680-90686-5	1AE29030.D	05/29/2013 21:30
CV0992A-CS	680-90686-6	1AE29031.D	05/29/2013 21:45
CV0992B-CS	680-90686-7	1AE29032.D	05/29/2013 22:00
CV0992B-CS MS	680-90686-7 MS	1AE29033.D	05/29/2013 22:15
CV0992B-CS MSD	680-90686-7 MSD	1AE29034.D	05/29/2013 22:30

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1DF05006.D Lab Sample ID: MB 660-137947/1-A
 Matrix: Solid Date Extracted: 05/31/2013 10:03
 Instrument ID: BSMD5973 Date Analyzed: 06/05/2013 13:02
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-137947/2-A	1DF05007.D	06/05/2013 13:24
	680-90686-A-22-B MS	1DF05009.D	06/05/2013 14:10
	680-90686-A-22-C MSD	1DF05010.D	06/05/2013 14:32
CV1034A-CS	680-90686-8	1DF05016.D	06/05/2013 16:48
CV1034A-CSD	680-90686-9	1DF05017.D	06/05/2013 17:10
CV1073A-CS	680-90686-10	1DF05018.D	06/05/2013 17:33
CV1073B-CS	680-90686-11	1DF05019.D	06/05/2013 17:55
CV0543A-CS-SP	680-90686-12	1DF05020.D	06/05/2013 18:18
CV0543B-CS-SP	680-90686-13	1DF05021.D	06/05/2013 18:41
CV0543C-CS-SP	680-90686-14	1DF05022.D	06/05/2013 19:03
HP0036A-CS-SP	680-90686-15	1DF05023.D	06/05/2013 19:26
HP0036B-CS-SP	680-90686-16	1DF05024.D	06/05/2013 19:48
HP0036C-CS-SP	680-90686-17	1DF05025.D	06/05/2013 20:11
CV0990A-CS	680-90686-18	1DF05026.D	06/05/2013 20:33
CV0990B-CS	680-90686-19	1DF05027.D	06/05/2013 20:56
CV0990C-CS	680-90686-20	1DF05028.D	06/05/2013 21:19

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1AE23002.D DFTPP Injection Date: 05/23/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 137743

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	50.0
68	Less than 2.0 % of mass 69	0.7 (2.0)1
69	Mass 69 relative abundance	34.5
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	45.6
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.4
275	10.0 - 60.0 % of mass 198	22.7
365	Greater than 1.0 % of mass 198	2.4
441	Present but less than mass 443	8.9
442	Greater than 50.0 % of mass 198	62.5
443	15.0 - 24.0 % of mass 442	12.4 (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
	IC 660-137743/3	1AE23003.D	05/23/2013	12:51
	IC 660-137743/4	1AE23004.D	05/23/2013	13:06
	IC 660-137743/5	1AE23005.D	05/23/2013	13:21
	IC 660-137743/6	1AE23006.D	05/23/2013	13:36
	ICIS 660-137743/7	1AE23007.D	05/23/2013	13:52
	IC 660-137743/8	1AE23008.D	05/23/2013	14:07
	IC 660-137743/9	1AE23009.D	05/23/2013	14:22
	ICV 660-137743/10	1AE23010.D	05/23/2013	14:37

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1AE29005.D DFTPP Injection Date: 05/29/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 15:05
 Analysis Batch No.: 137876

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	39.4
68	Less than 2.0 % of mass 69	0.6 (1.8)1
69	Mass 69 relative abundance	35.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	43.0
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	7.5
275	10.0 - 60.0 % of mass 198	27.8
365	Greater than 1.0 % of mass 198	3.7
441	Present but less than mass 443	11.3
442	Greater than 50.0 % of mass 198	94.0
443	15.0 - 24.0 % of mass 442	18.8 (20.0)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 660-137876/7	1AE29006.D	05/29/2013	15:18
	MB 660-137845/1-A	1AE29009.D	05/29/2013	16:04
	LCS 660-137845/2-A	1AE29012.D	05/29/2013	16:58
CV0986A-CS	680-90686-1	1AE29026.D	05/29/2013	20:30
CV0986A-CSD	680-90686-2	1AE29027.D	05/29/2013	20:44
CV0986B-CS	680-90686-3	1AE29028.D	05/29/2013	21:00
CV0991A-CS	680-90686-4	1AE29029.D	05/29/2013	21:15
CV0991B-CS	680-90686-5	1AE29030.D	05/29/2013	21:30
CV0992A-CS	680-90686-6	1AE29031.D	05/29/2013	21:45
CV0992B-CS	680-90686-7	1AE29032.D	05/29/2013	22:00
CV0992B-CS MS	680-90686-7 MS	1AE29033.D	05/29/2013	22:15
CV0992B-CS MSD	680-90686-7 MSD	1AE29034.D	05/29/2013	22:30

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1DE23002.D DFTPP Injection Date: 05/23/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:20
 Analysis Batch No.: 137830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	55.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.5
70	Less than 2.0 % of mass 69	0.5 (0.9)1
127	10.0 - 80.0 % of mass 198	56.5
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.6
275	10.0 - 60.0 % of mass 198	26.0
365	Greater than 1.0 % of mass 198	4.0
441	Present but less than mass 443	7.8
442	Greater than 50.0 % of mass 198	54.0
443	15.0 - 24.0 % of mass 442	9.9 (18.4)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-137830/3	1DE23003.D	05/23/2013	13:03
	IC 660-137830/4	1DE23004.D	05/23/2013	13:26
	IC 660-137830/5	1DE23005.D	05/23/2013	13:48
	IC 660-137830/6	1DE23006.D	05/23/2013	14:11
	ICIS 660-137830/7	1DE23007.D	05/23/2013	14:33
	IC 660-137830/8	1DE23008.D	05/23/2013	14:56
	IC 660-137830/9	1DE23009.D	05/23/2013	15:19
	ICV 660-137830/10	1DE23010.D	05/23/2013	15:41

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab File ID: 1DF05002.D DFTPP Injection Date: 06/05/2013
 Instrument ID: BSMD5973 DFTPP Injection Time: 11:38
 Analysis Batch No.: 138106

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	30.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.0
70	Less than 2.0 % of mass 69	0.2 (0.7)1
127	10.0 - 80.0 % of mass 198	45.4
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.3
275	10.0 - 60.0 % of mass 198	30.1
365	Greater than 1.0 % of mass 198	4.5
441	Present but less than mass 443	13.5
442	Greater than 50.0 % of mass 198	89.1
443	15.0 - 24.0 % of mass 442	16.8 (18.8)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-138106/3	1DF05003.D	06/05/2013	11:54
	MB 660-137947/1-A	1DF05006.D	06/05/2013	13:02
	LCS 660-137947/2-A	1DF05007.D	06/05/2013	13:24
	680-90686-A-22-B MS	1DF05009.D	06/05/2013	14:10
	680-90686-A-22-C MSD	1DF05010.D	06/05/2013	14:32
CV1034A-CS	680-90686-8	1DF05016.D	06/05/2013	16:48
CV1034A-CSD	680-90686-9	1DF05017.D	06/05/2013	17:10
CV1073A-CS	680-90686-10	1DF05018.D	06/05/2013	17:33
CV1073B-CS	680-90686-11	1DF05019.D	06/05/2013	17:55
CV0543A-CS-SP	680-90686-12	1DF05020.D	06/05/2013	18:18
CV0543B-CS-SP	680-90686-13	1DF05021.D	06/05/2013	18:41
CV0543C-CS-SP	680-90686-14	1DF05022.D	06/05/2013	19:03
HP0036A-CS-SP	680-90686-15	1DF05023.D	06/05/2013	19:26
HP0036B-CS-SP	680-90686-16	1DF05024.D	06/05/2013	19:48
HP0036C-CS-SP	680-90686-17	1DF05025.D	06/05/2013	20:11
CV0990A-CS	680-90686-18	1DF05026.D	06/05/2013	20:33
CV0990B-CS	680-90686-19	1DF05027.D	06/05/2013	20:56
CV0990C-CS	680-90686-20	1DF05028.D	06/05/2013	21:19

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: ICIS 660-137743/7 Date Analyzed: 05/23/2013 13:52
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE23007.D Heated Purge: (Y/N) N
 Calibration ID: 2980

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1225593	2.53	677570	3.55	1226779	4.50
UPPER LIMIT	2451186	3.03	1355140	4.05	2453558	5.00
LOWER LIMIT	612797	2.03	338785	3.05	613390	4.00
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137743/10		1091029	2.52	597262	3.55	1081344 4.50

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: ICIS 660-137743/7 Date Analyzed: 05/23/2013 13:52
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE23007.D Heated Purge: (Y/N) N
 Calibration ID: 2980

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	1124722	6.51	1011274	7.60		
UPPER LIMIT	2249444	7.01	2022548	8.10		
LOWER LIMIT	562361	6.01	505637	7.10		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137743/10	1116055	6.51	937247	7.60		

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: CCVIS 660-137876/7 Date Analyzed: 05/29/2013 15:18
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE29006.D Heated Purge: (Y/N) N
 Calibration ID: 2980

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	932710	2.51	490870	3.53	840693	4.48	
UPPER LIMIT	1865420	3.01	981740	4.03	1681386	4.98	
LOWER LIMIT	466355	2.01	245435	3.03	420347	3.98	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137845/1-A	1343682	2.51	846854	3.53	1211040	4.48	
LCS 660-137845/2-A	1203952	2.51	731060	3.54	1210659	4.48	
680-90686-1	CV0986A-CS	930089	2.51	588687	3.54	861396	4.49
680-90686-2	CV0986A-CSD	1002157	2.51	685656	3.54	924892	4.49
680-90686-3	CV0986B-CS	981411	2.52	643681	3.54	870557	4.49
680-90686-4	CV0991A-CS	954445	2.52	605449	3.54	816005	4.49
680-90686-5	CV0991B-CS	919798	2.52	596694	3.54	833186	4.49
680-90686-6	CV0992A-CS	1021589	2.52	646773	3.54	943778	4.49
680-90686-7	CV0992B-CS	976484	2.52	617380	3.54	895595	4.49
680-90686-7 MS	CV0992B-CS MS	935988	2.52	609946	3.54	911214	4.49
680-90686-7 MSD	CV0992B-CS MSD	925757	2.52	586300	3.54	905288	4.49

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: CCVIS 660-137876/7 Date Analyzed: 05/29/2013 15:18
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE29006.D Heated Purge: (Y/N) N
 Calibration ID: 2980

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	799224	6.49	651433	7.57		
UPPER LIMIT	1598448	6.99	1302866	8.07		
LOWER LIMIT	399612	5.99	325717	7.07		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-137845/1-A		1139541	6.49	1014927	7.58	
LCS 660-137845/2-A		980501	6.50	811272	7.58	
680-90686-1	CV0986A-CS	628956	6.51	695047	7.60	
680-90686-2	CV0986A-CSD	744084	6.51	835471	7.61	
680-90686-3	CV0986B-CS	684208	6.51	716993	7.61	
680-90686-4	CV0991A-CS	716553	6.51	673667	7.61	
680-90686-5	CV0991B-CS	732764	6.51	923766	7.61	
680-90686-6	CV0992A-CS	618598	6.51	602453	7.61	
680-90686-7	CV0992B-CS	678361	6.51	695752	7.61	
680-90686-7 MS	CV0992B-CS MS	705724	6.52	695547	7.61	
680-90686-7 MSD	CV0992B-CS MSD	762174	6.51	814583	7.61	

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	3209942	6.28	1824950	7.95	3071098	9.20	
UPPER LIMIT	6419884	6.78	3649900	8.45	6142196	9.70	
LOWER LIMIT	1604971	5.78	912475	7.45	1535549	8.70	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-137830/10		3254661	6.28	1828493	7.95	3056039	9.21

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: ICIS 660-137830/7 Date Analyzed: 05/23/2013 14:33
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DE23007.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	3009447	11.57	3048824	13.48		
UPPER LIMIT	6018894	12.07	6097648	13.98		
LOWER LIMIT	1504724	11.07	1524412	12.98		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-137830/10	2992199	11.57	3010942	13.47		

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	3131433	6.27	1623515	7.93	2616277	9.19	
UPPER LIMIT	6262866	6.77	3247030	8.43	5232554	9.69	
LOWER LIMIT	1565717	5.77	811758	7.43	1308139	8.69	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-137947/1-A	3666651	6.26	1997867	7.94	3107850	9.19	
LCS 660-137947/2-A	3388994	6.26	1879829	7.94	2952631	9.20	
680-90686-A-22-B MS	3218693	6.27	1730193	7.94	2727651	9.19	
680-90686-A-22-C MSD	3212164	6.27	1707182	7.94	2698420	9.19	
680-90686-8	CV1034A-CS	3307050	6.27	1769336	7.94	2812396	9.19
680-90686-9	CV1034A-CSD	3233836	6.27	1750251	7.94	2751522	9.20
680-90686-10	CV1073A-CS	3245350	6.27	1744917	7.93	2686436	9.20
680-90686-11	CV1073B-CS	3111524	6.27	1686944	7.94	2688254	9.19
680-90686-12	CV0543A-CS-SP	3201535	6.27	1734837	7.94	2697442	9.20
680-90686-13	CV0543B-CS-SP	3061812	6.27	1632060	7.94	2576098	9.20
680-90686-14	CV0543C-CS-SP	3242050	6.27	1713694	7.94	2683526	9.20
680-90686-15	HP0036A-CS-SP	3428027	6.27	1804720	7.94	2779682	9.20
680-90686-16	HP0036B-CS-SP	3118629	6.27	1674783	7.94	2586741	9.20
680-90686-17	HP0036C-CS-SP	3029375	6.27	1647493	7.94	2649339	9.20
680-90686-18	CV0990A-CS	2835469	6.27	1520960	7.94	2428941	9.20
680-90686-19	CV0990B-CS	3098218	6.27	1660017	7.94	2624715	9.20
680-90686-20	CV0990C-CS	3023906	6.27	1622241	7.94	2551264	9.20

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.: 680-90686-1
 SDG No.: 68090686-1
 Sample No.: CCVIS 660-138106/3 Date Analyzed: 06/05/2013 11:54
 Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1DF05003.D Heated Purge: (Y/N) N
 Calibration ID: 2984

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	2384410	11.55	2379163	13.46		
UPPER LIMIT	4768820	12.05	4758326	13.96		
LOWER LIMIT	1192205	11.05	1189582	12.96		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-137947/1-A		2518522	11.55	2463253	13.45	
LCS 660-137947/2-A		2613136	11.55	2620924	13.45	
680-90686-A-22-B MS		2317889	11.55	2645002	13.46	
680-90686-A-22-C MSD		2340363	11.55	2673967	13.46	
680-90686-8	CV1034A-CS	2587198	11.56	2983248	13.46	
680-90686-9	CV1034A-CSD	2515791	11.56	2919140	13.47	
680-90686-10	CV1073A-CS	2468022	11.56	2720030	13.46	
680-90686-11	CV1073B-CS	2452989	11.56	2796970	13.47	
680-90686-12	CV0543A-CS-SP	2523927	11.56	2851152	13.47	
680-90686-13	CV0543B-CS-SP	2484319	11.56	2857364	13.46	
680-90686-14	CV0543C-CS-SP	2551417	11.56	2854128	13.47	
680-90686-15	HP0036A-CS-SP	2678291	11.56	2967784	13.48	
680-90686-16	HP0036B-CS-SP	2526169	11.56	2783289	13.47	
680-90686-17	HP0036C-CS-SP	2597787	11.56	2743037	13.47	
680-90686-18	CV0990A-CS	2563296	11.56	2714513	13.48	
680-90686-19	CV0990B-CS	2638852	11.56	2775762	13.48	
680-90686-20	CV0990C-CS	2517001	11.57	2651547	13.48	

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.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0986A-CS Lab Sample ID: 680-90686-1
 Matrix: Solid Lab File ID: 1AE29026.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 08:55
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.13(g) Date Analyzed: 05/29/2013 20:30
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	40	J	190	24
120-12-7	Anthracene	73		40	20
56-55-3	Benzo[a]anthracene	270		38	19
50-32-8	Benzo[a]pyrene	160		50	25
205-99-2	Benzo[b]fluoranthene	250		58	29
191-24-2	Benzo[g,h,i]perylene	190		96	21
207-08-9	Benzo[k]fluoranthene	86		38	17
218-01-9	Chrysene	260		43	22
53-70-3	Dibenz(a,h)anthracene	96	U	96	20
206-44-0	Fluoranthene	220		96	19
86-73-7	Fluorene	96	U	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	140		96	34
90-12-0	1-Methylnaphthalene	100	J	190	21
91-57-6	2-Methylnaphthalene	150	J	190	34
91-20-3	Naphthalene	120	J	190	21
85-01-8	Phenanthrene	240		38	19
129-00-0	Pyrene	270		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29026.D
 Lab Smp Id: 680-90686-A-1-A Client Smp ID: CV0986A-CS
 Inj Date : 29-MAY-2013 20:30
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-1-a
 Misc Info : 680-90686-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.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	17.204	% 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		2.514	2.512	(1.000)	930089	40.0000		
* 7 Acenaphthene-d10	164		3.540	3.533	(1.000)	588687	40.0000		
* 11 Phenanthrene-d10	188		4.485	4.478	(1.000)	861396	40.0000		
\$ 15 o-Terphenyl	230		4.774	4.772	(1.064)	13521	1.08526	346.5358	
* 19 Chrysene-d12	240		6.505	6.492	(1.000)	628956	40.0000		
* 24 Perylene-d12	264		7.600	7.571	(1.000)	695047	40.0000		
2 Naphthalene	128		2.525	2.518	(1.004)	8128	0.38598	123.2464	
3 2-Methylnaphthalene	141		2.926	2.924	(1.164)	4737	0.47245	150.8569	
4 1-Methylnaphthalene	142		2.984	2.977	(1.187)	4751	0.32441	103.5869	
5 1,1'-Biphenyl	154		3.209	3.207	(1.276)	1137	0.06950	22.1928(Q)	
6 Acenaphthylene	152		3.449	3.447	(0.974)	3233	0.12552	40.0783	
9 Dibenzofuran	168		3.657	3.655	(1.033)	3104	0.14727	47.0245	
10 Fluorene	166		3.866	3.864	(1.092)	812	0.05081	16.2232(Q)	
12 Phenanthrene	178		4.496	4.494	(1.002)	14444	0.74453	237.7359	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Anthracene	178	4.534	4.526 (1.011)		4631	0.22818	72.8604
16 Fluoranthene	202	5.356	5.354 (1.194)		16671	0.68825	219.7652
17 Pyrene	202	5.522	5.515 (0.849)		16147	0.85198	272.0454
18 Benzo(a)anthracene	228	6.510	6.481 (1.001)		15941	0.85951	274.4514(M)
20 Chrysene	228	6.516	6.508 (1.002)		13670	0.81417	259.9738(QM)
21 Benzo(b)fluoranthene	252	7.311	7.299 (0.962)		12213	0.77606	247.8055(M)
22 Benzo(k)fluoranthene	252	7.322	7.320 (0.963)		6254	0.27045	86.3565(M)
23 Benzo(a)pyrene	252	7.541	7.523 (0.992)		8556	0.50464	161.1359
25 Indeno(1,2,3-cd)pyrene	276	8.337	8.314 (1.097)		5204	0.44583	142.3567(M)
27 Benzo(g,h,i)perylene	276	8.546	8.522 (1.124)		8950	0.60012	191.6235

QC Flag Legend

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

Data File: 1AE29026.D

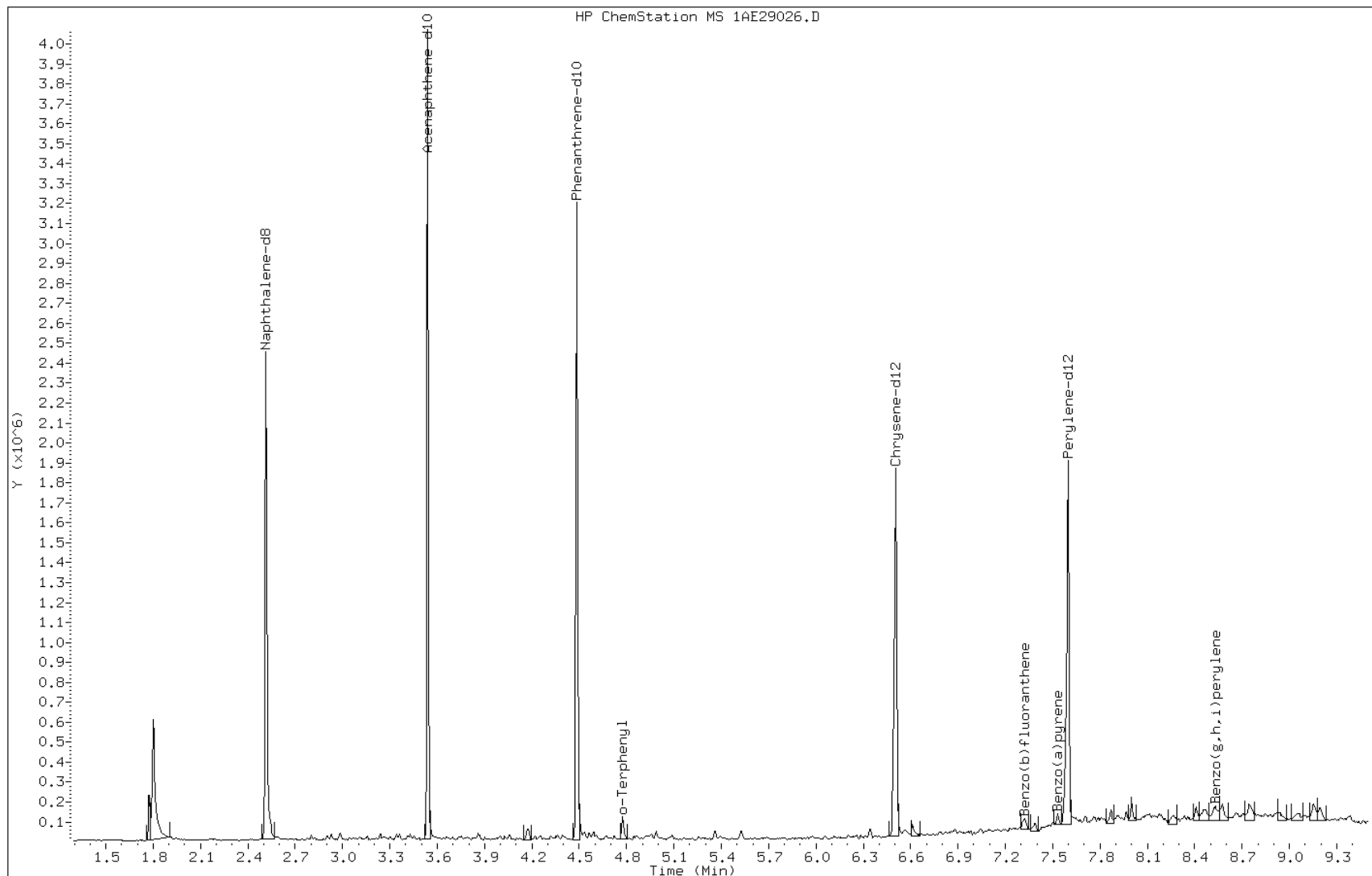
Date: 29-MAY-2013 20:30

Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

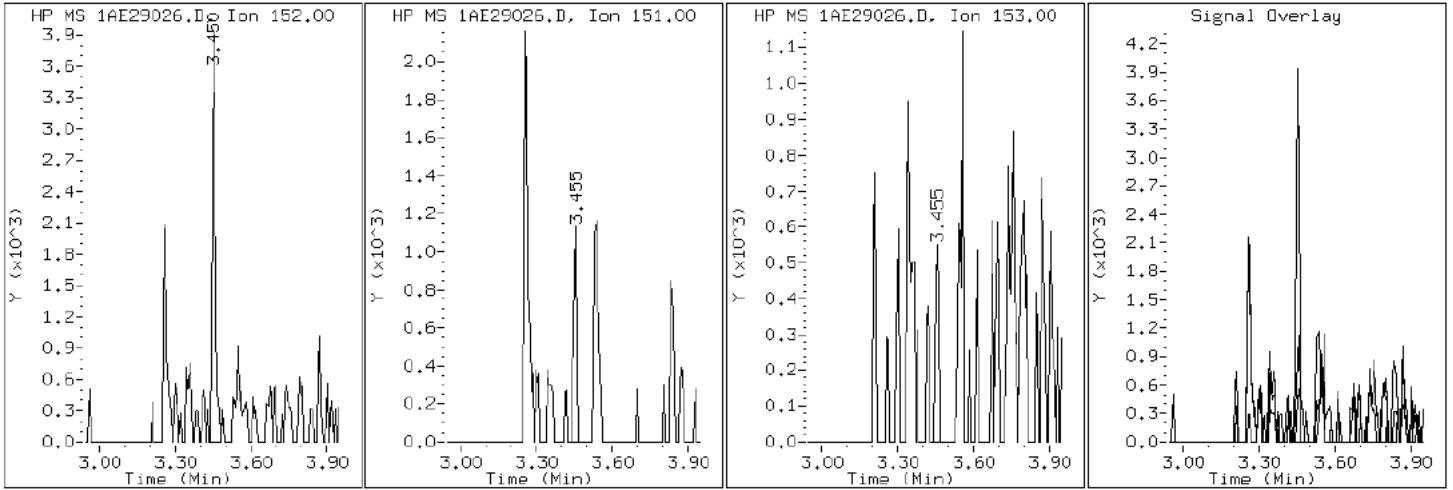
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

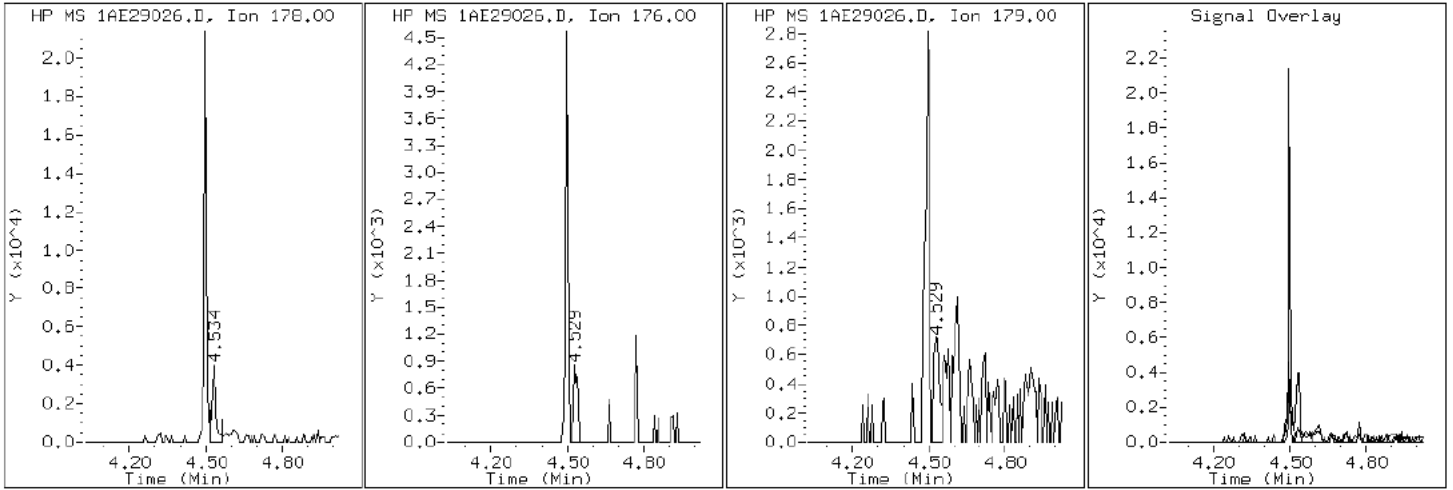
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

13 Anthracene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

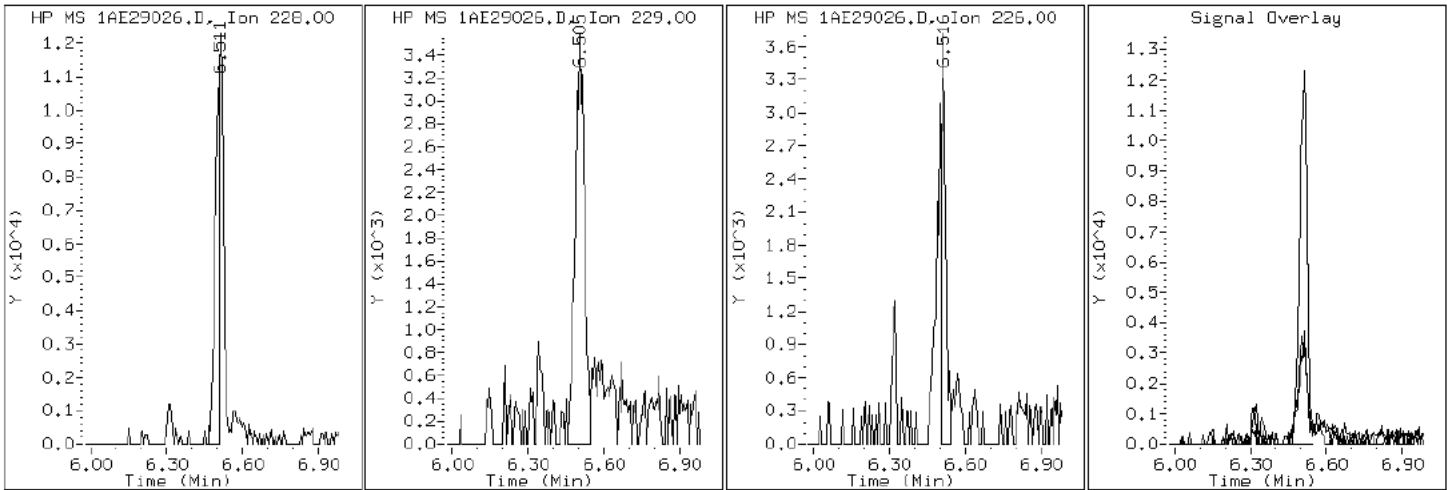
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

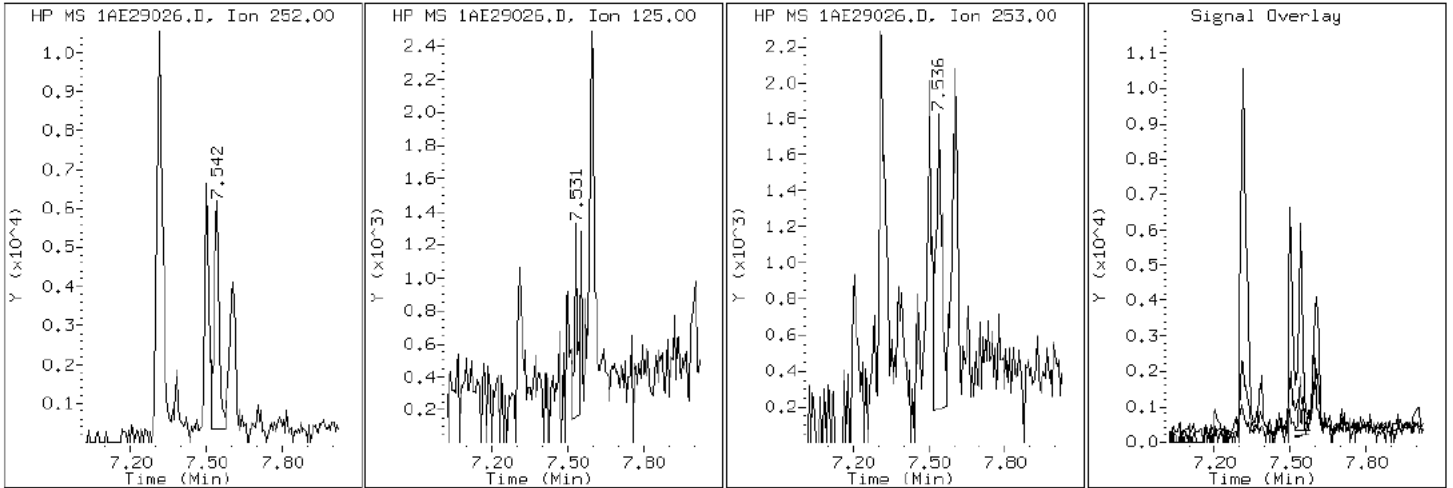
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

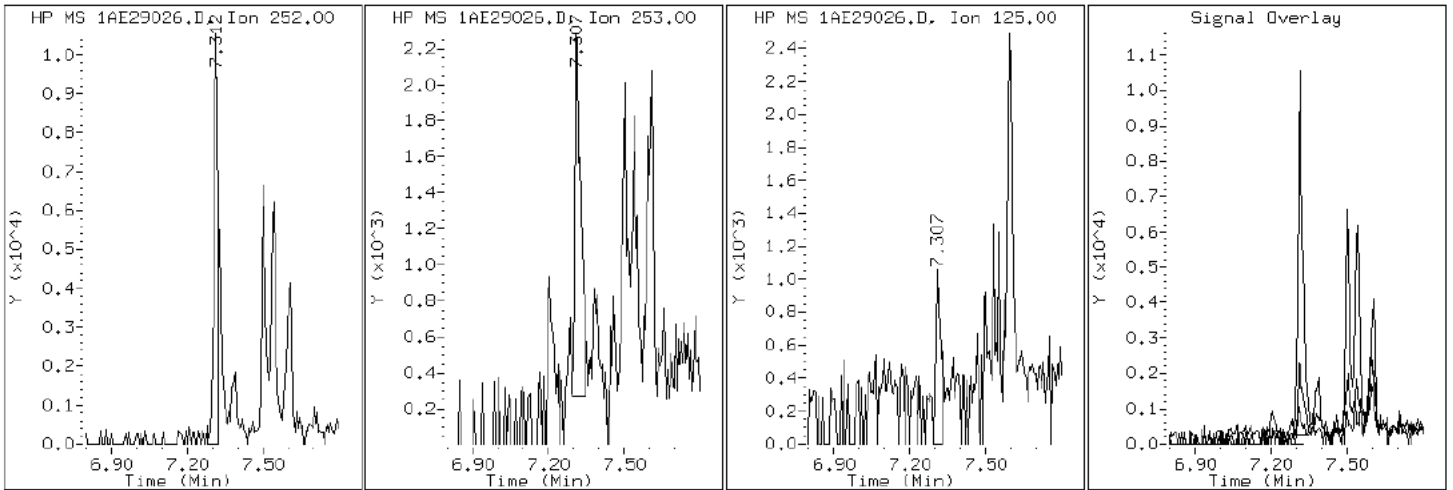
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

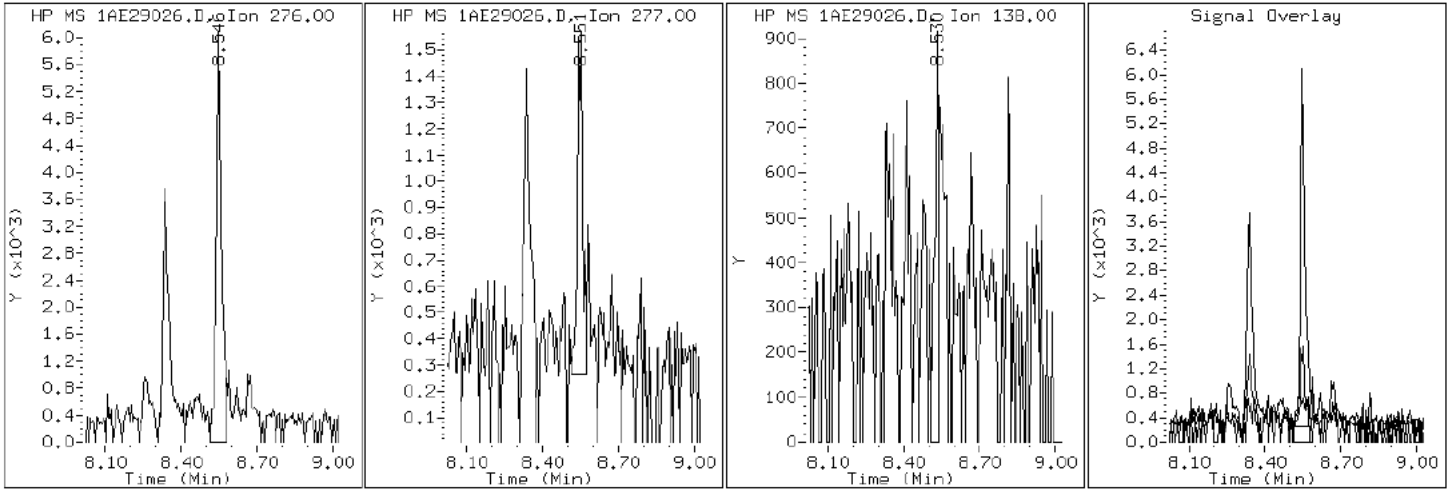
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

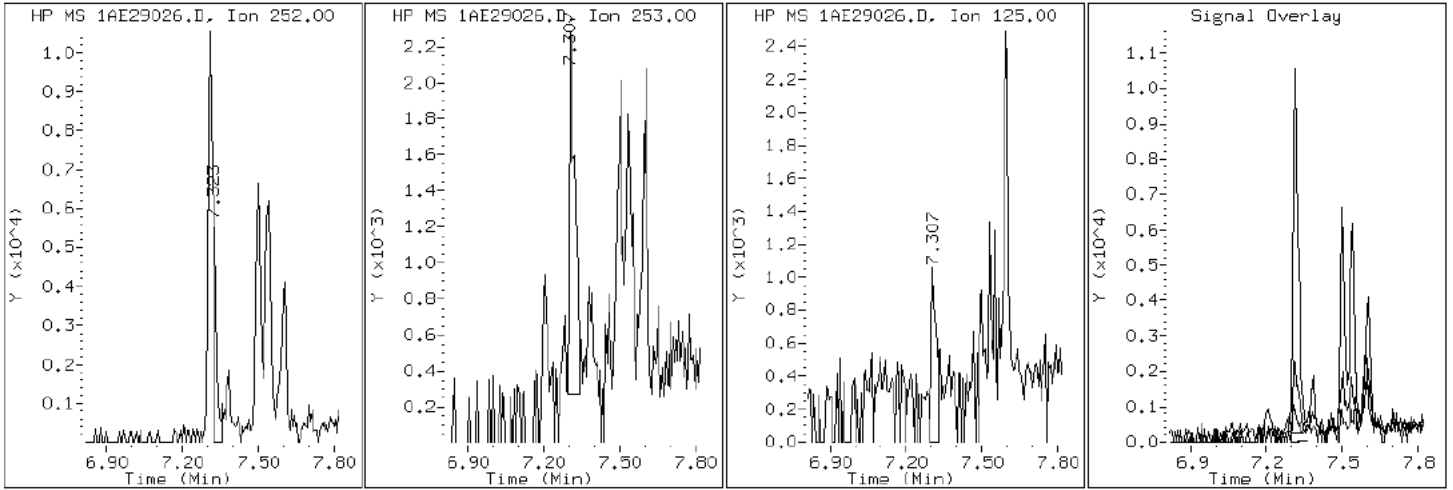
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

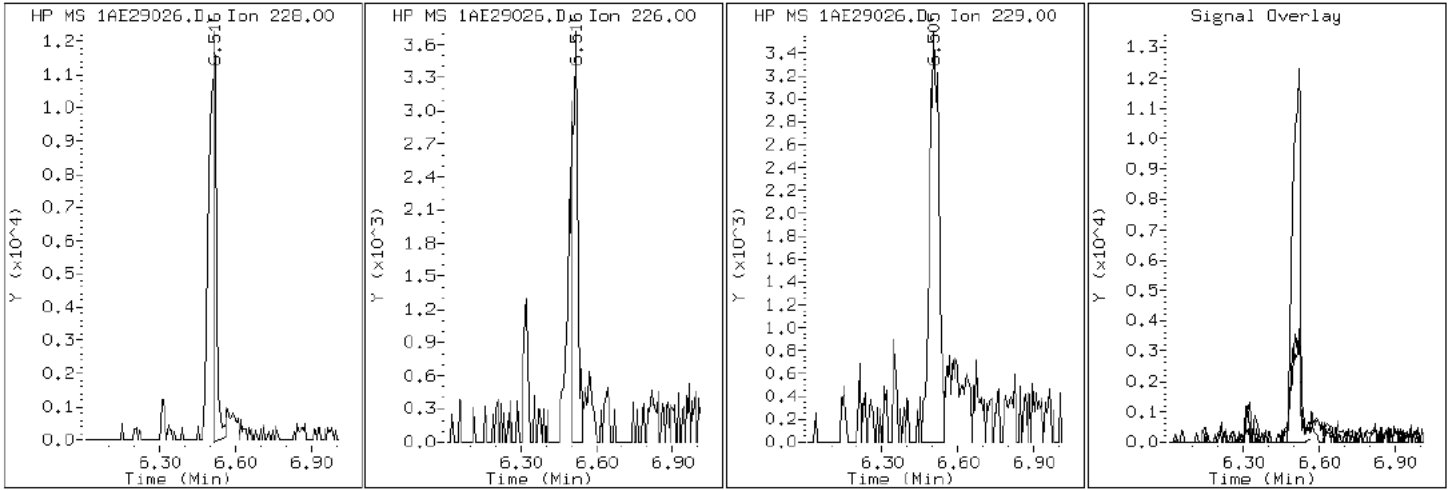
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

20 Chrysene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

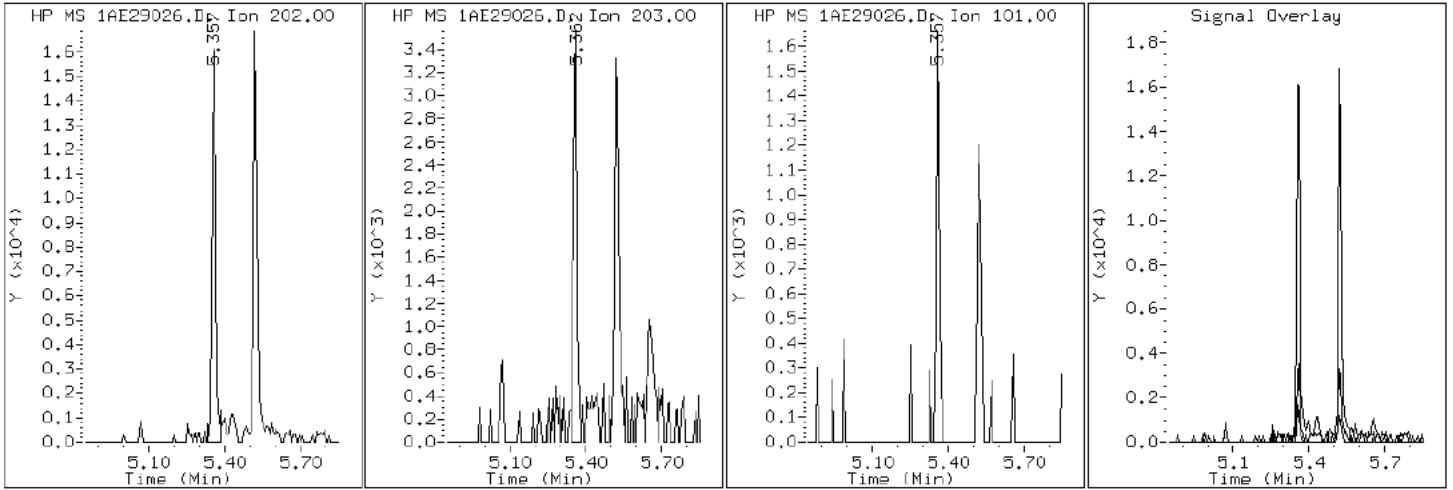
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

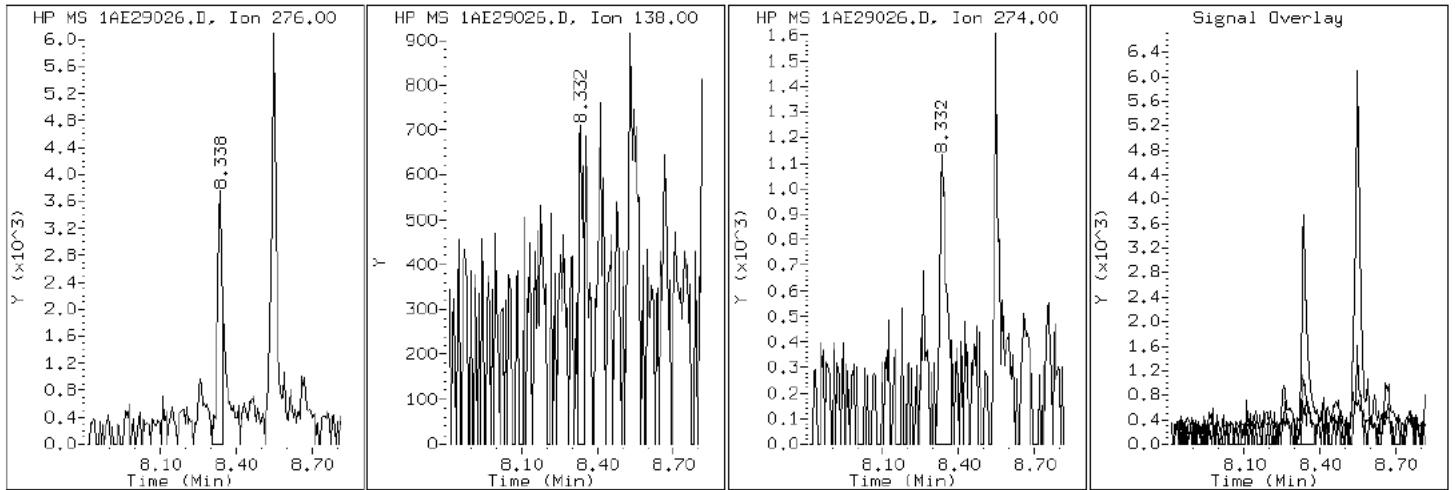
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

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



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

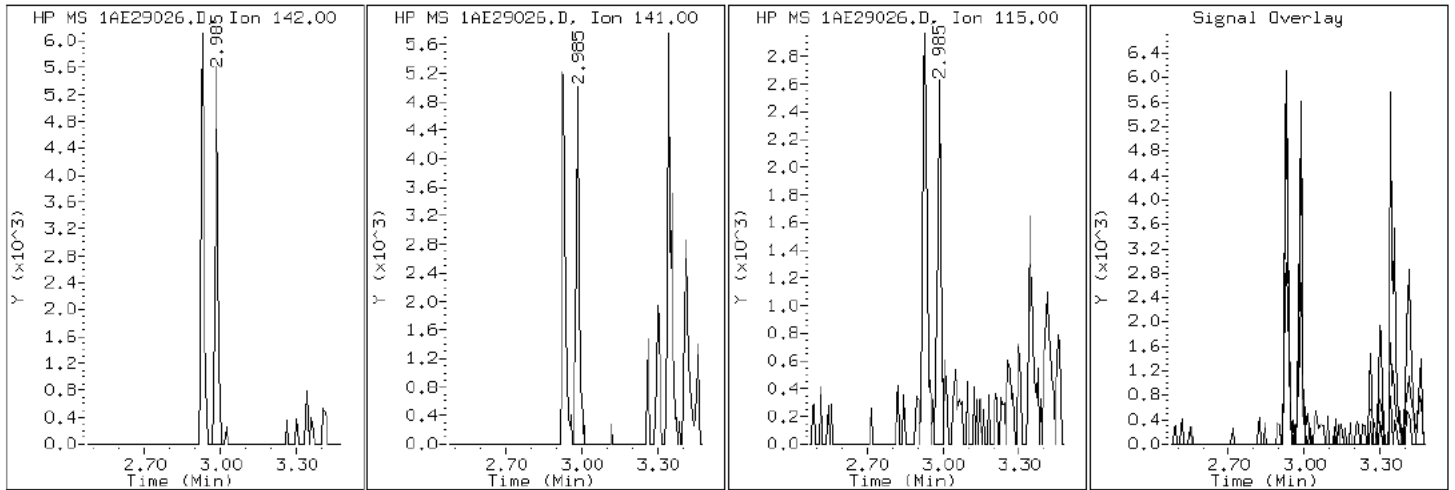
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

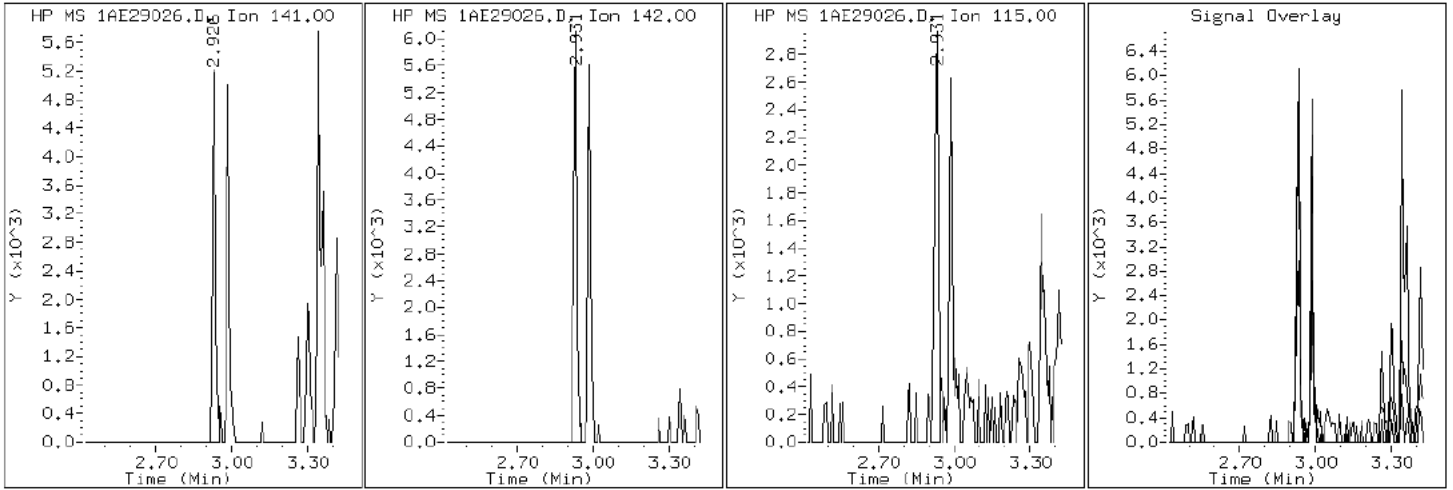
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

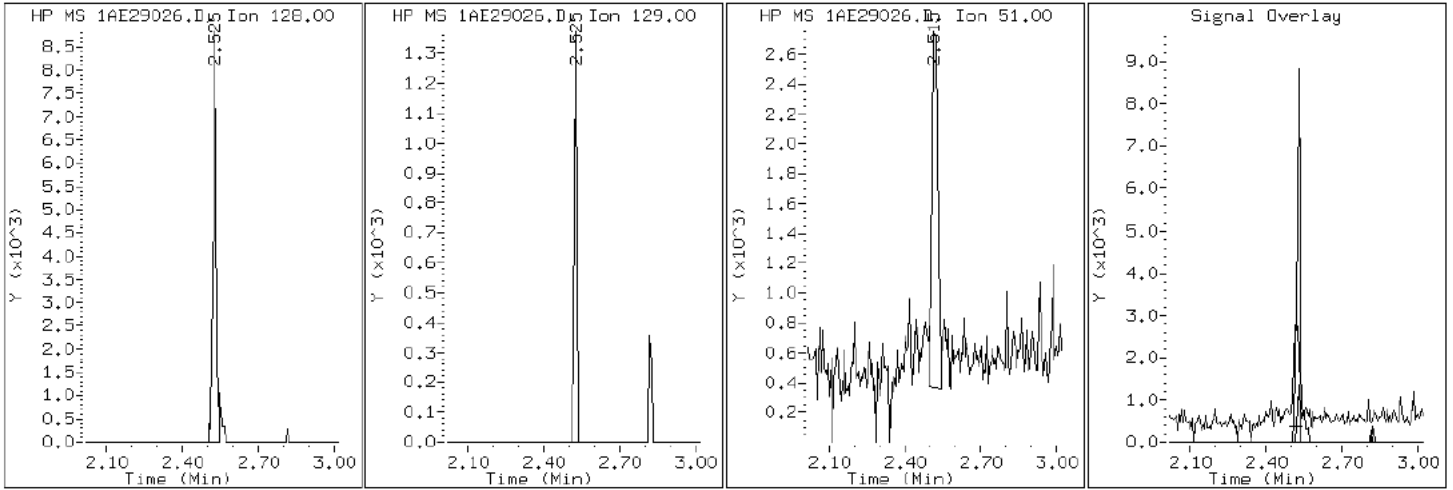
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

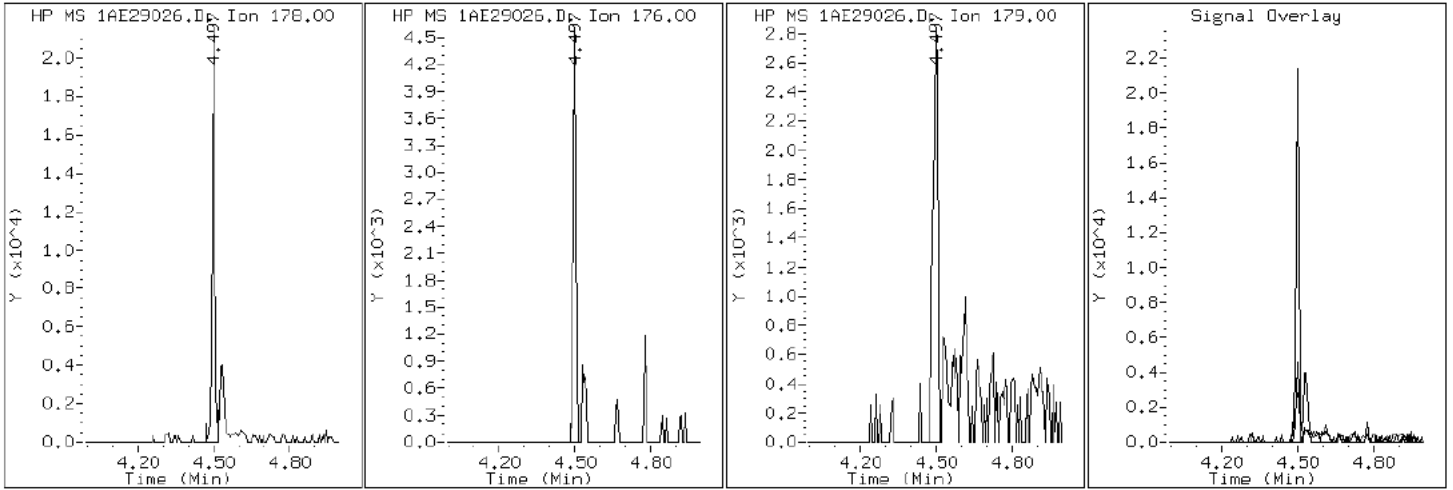
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29026.D

Date: 29-MAY-2013 20:30

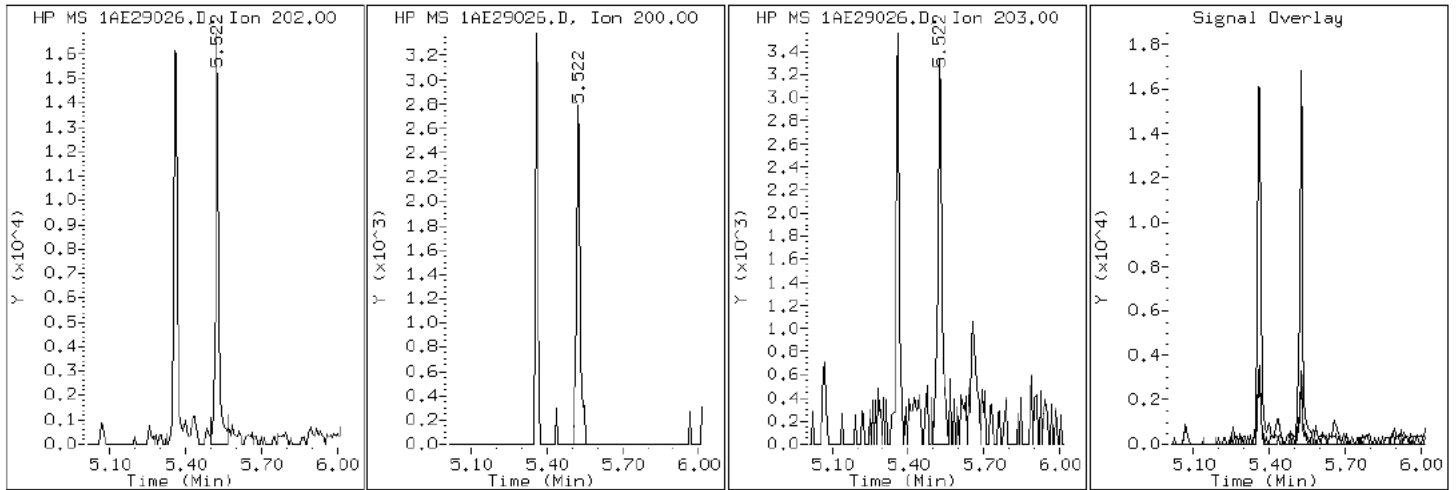
Client ID: CV0986A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-1-a

Operator: SCC

17 Pyrene

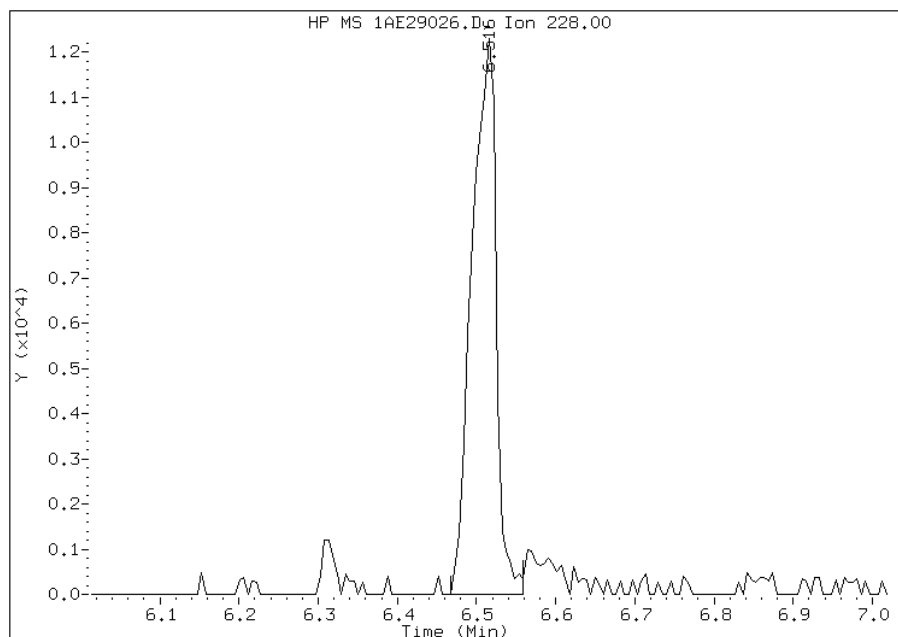


Manual Integration Report

Data File: 1AE29026.D
Inj. Date and Time: 29-MAY-2013 20:30
Instrument ID: BSMA5973.i
Client ID: CV0986A-CS
Compound: 18 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 06/04/2013

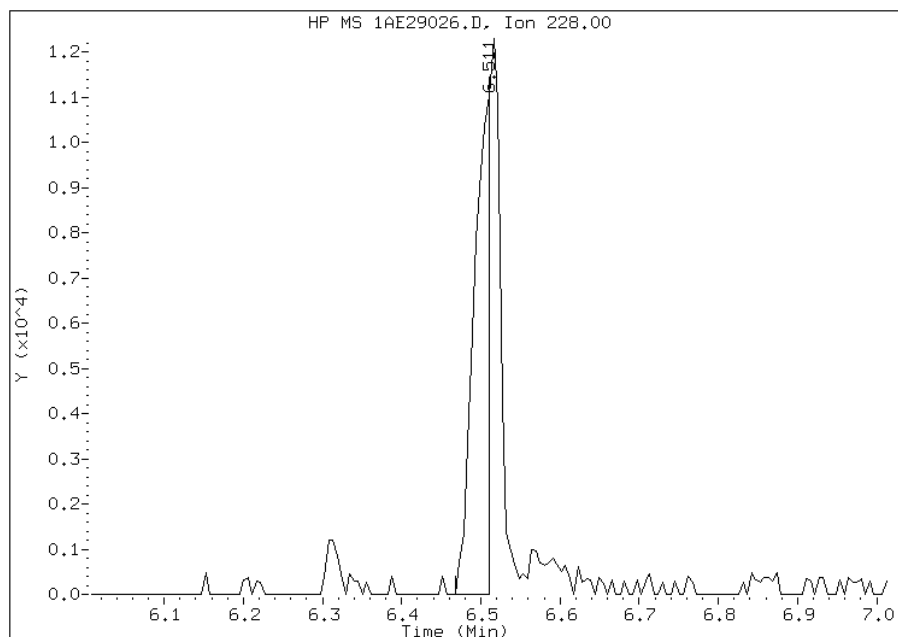
Processing Integration Results

RT: 6.52
Response: 26086
Amount: 1
Conc: 459



Manual Integration Results

RT: 6.51
Response: 15941
Amount: 1
Conc: 274



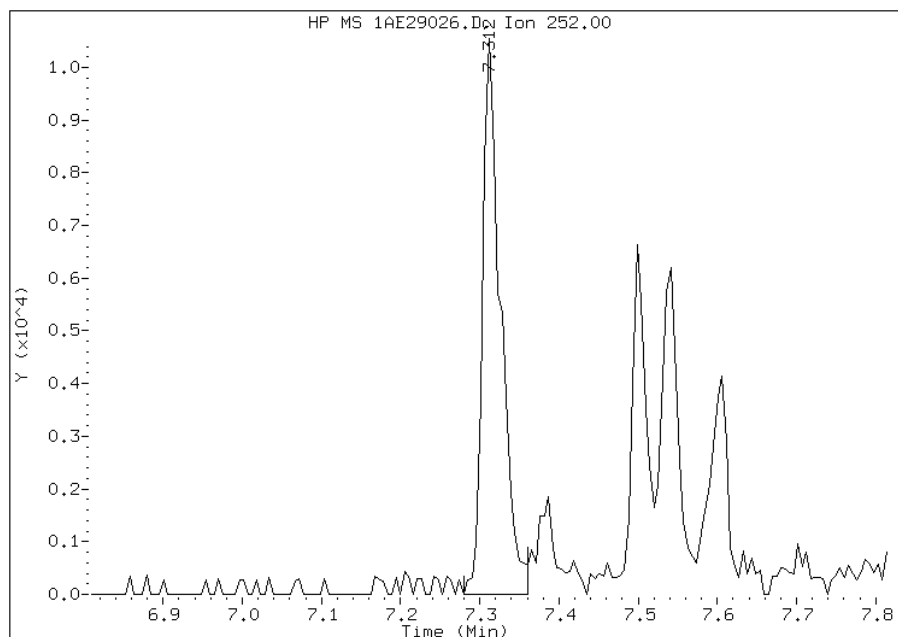
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29026.D
Inj. Date and Time: 29-MAY-2013 20:30
Instrument ID: BSMA5973.i
Client ID: CV0986A-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

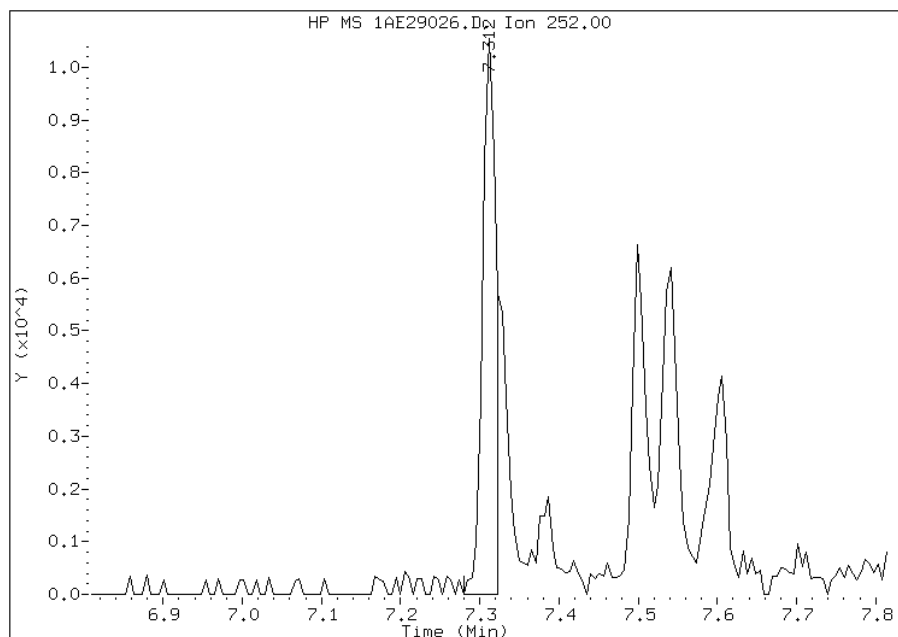
Processing Integration Results

RT: 7.31
Response: 16688
Amount: 1
Conc: 316



Manual Integration Results

RT: 7.31
Response: 12213
Amount: 1
Conc: 248



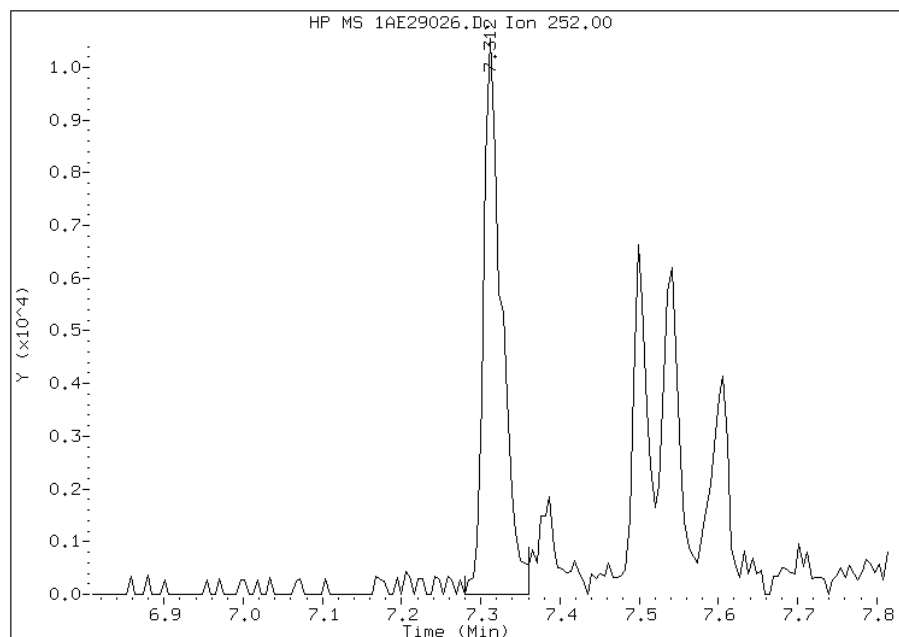
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29026.D
Inj. Date and Time: 29-MAY-2013 20:30
Instrument ID: BSMA5973.i
Client ID: CV0986A-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

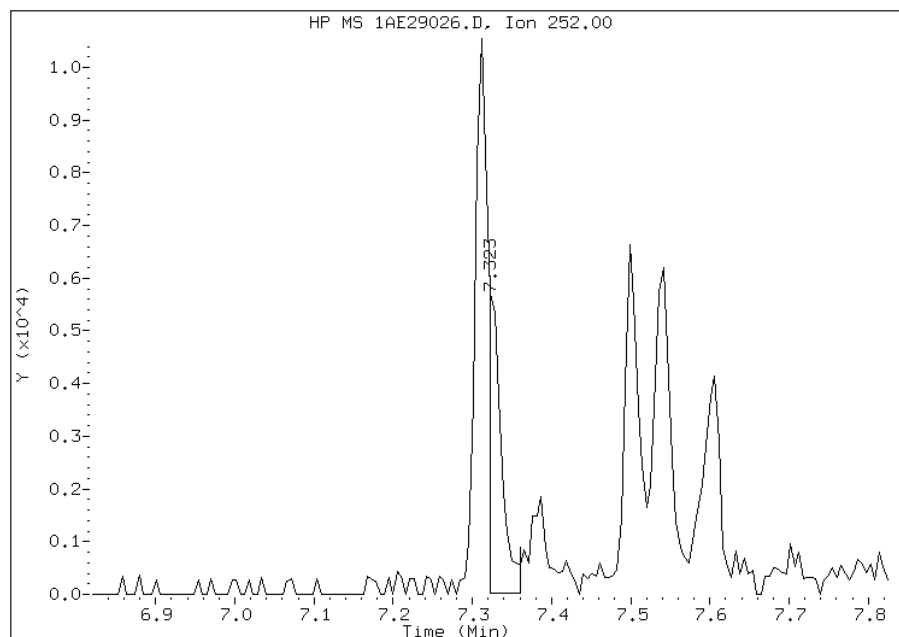
Processing Integration Results

RT: 7.31
Response: 16688
Amount: 1
Conc: 230



Manual Integration Results

RT: 7.32
Response: 6254
Amount: 0
Conc: 86



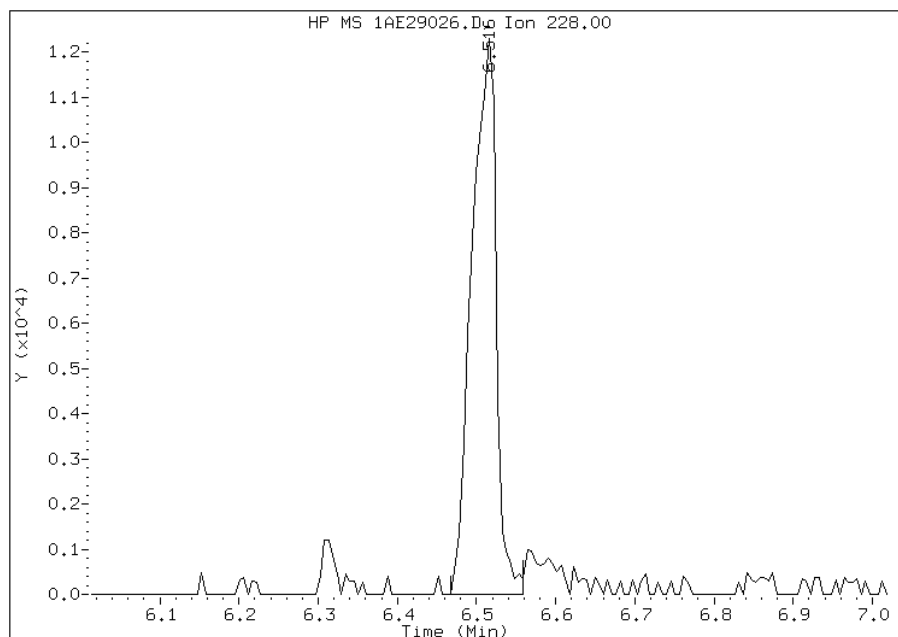
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29026.D
Inj. Date and Time: 29-MAY-2013 20:30
Instrument ID: BSMA5973.i
Client ID: CV0986A-CS
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/04/2013

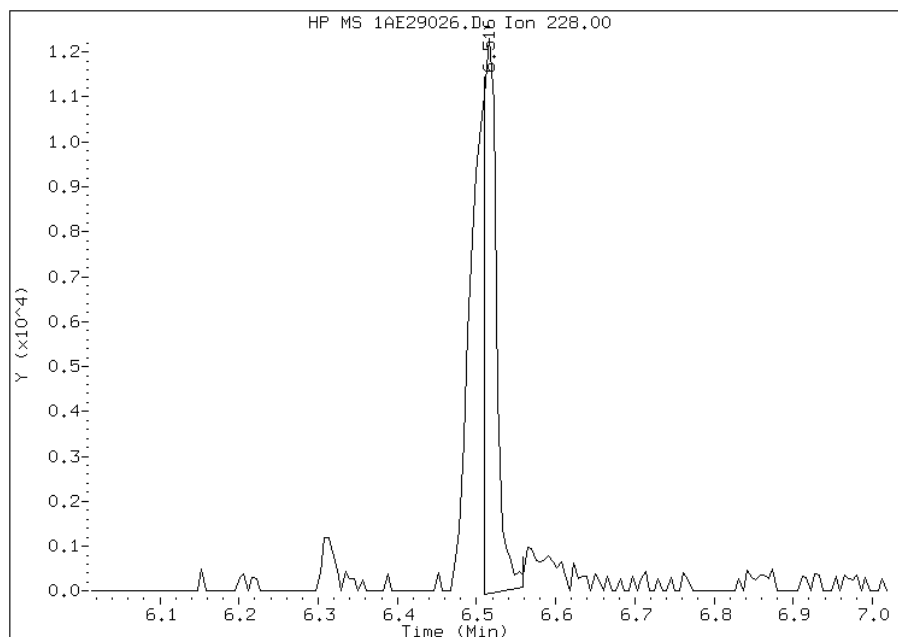
Processing Integration Results

RT: 6.52
Response: 26086
Amount: 2
Conc: 496



Manual Integration Results

RT: 6.52
Response: 13670
Amount: 1
Conc: 260



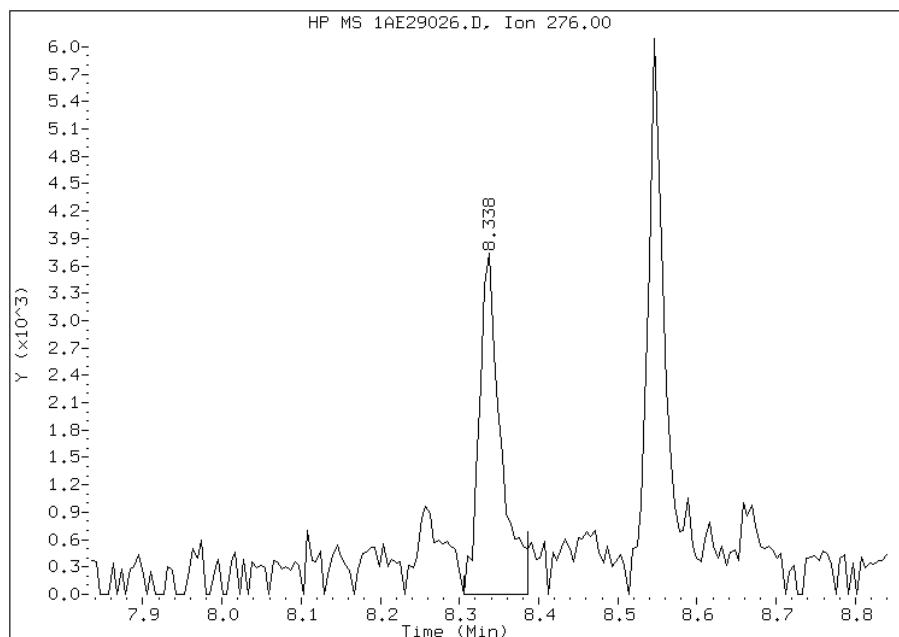
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29026.D
Inj. Date and Time: 29-MAY-2013 20:30
Instrument ID: BSMA5973.i
Client ID: CV0986A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

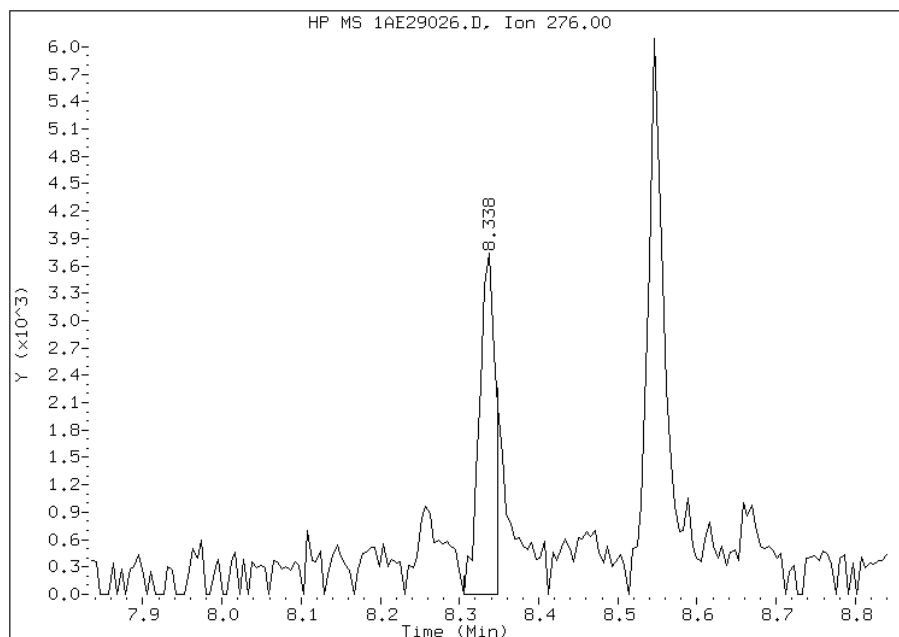
Processing Integration Results

RT: 8.34
Response: 6953
Amount: 1
Conc: 175



Manual Integration Results

RT: 8.34
Response: 5204
Amount: 0
Conc: 142



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0986A-CSD Lab Sample ID: 680-90686-2
 Matrix: Solid Lab File ID: 1AE29027.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 08:55
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.20(g) Date Analyzed: 05/29/2013 20:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	54	J	200	24
120-12-7	Anthracene	120		41	21
56-55-3	Benzo[a]anthracene	460		39	19
50-32-8	Benzo[a]pyrene	270		51	25
205-99-2	Benzo[b]fluoranthene	430		60	30
191-24-2	Benzo[g,h,i]perylene	340		98	21
207-08-9	Benzo[k]fluoranthene	99		39	18
218-01-9	Chrysene	460		44	22
53-70-3	Dibenz(a,h)anthracene	130		98	20
206-44-0	Fluoranthene	410		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	230		98	35
90-12-0	1-Methylnaphthalene	67	J	200	21
91-57-6	2-Methylnaphthalene	100	J	200	35
91-20-3	Naphthalene	120	J	200	21
85-01-8	Phenanthrene	300		39	19
129-00-0	Pyrene	380		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29027.D
 Lab Smp Id: 680-90686-A-2-A Client Smp ID: CV0986A-CSD
 Inj Date : 29-MAY-2013 20:44
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-2-a
 Misc Info : 680-90686-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 24
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	19.194	% 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		2.514	2.512	(1.000)	1002157	40.0000		
* 7 Acenaphthene-d10	164		3.539	3.533	(1.000)	685656	40.0000		
* 11 Phenanthrene-d10	188		4.485	4.478	(1.000)	924892	40.0000		
\$ 15 o-Terphenyl	230		4.779	4.772	(1.066)	15298	1.14360	372.4320	
* 19 Chrysene-d12	240		6.510	6.492	(1.000)	744084	40.0000		
* 24 Perylene-d12	264		7.605	7.571	(1.000)	835471	40.0000		
2 Naphthalene	128		2.524	2.518	(1.004)	8362	0.36853	120.0192	
3 2-Methylnaphthalene	141		2.930	2.924	(1.166)	3364	0.31138	101.4069	
4 1-Methylnaphthalene	142		2.984	2.977	(1.187)	3223	0.20425	66.5166	
5 1,1'-Biphenyl	154		3.208	3.207	(1.276)	1058	0.06002	19.5473	
6 Acenaphthylene	152		3.449	3.447	(0.974)	4931	0.16436	53.5277	
9 Dibenzofuran	168		3.662	3.655	(1.035)	2364	0.09630	31.3609	
10 Fluorene	166		3.871	3.864	(1.094)	941	0.05055	16.4631	
12 Phenanthrene	178		4.501	4.494	(1.004)	19174	0.92049	299.7733	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Anthracene	178	4.533	4.526 (1.011)		7823	0.35900	116.9131
16 Fluoranthene	202	5.361	5.354 (1.195)		32721	1.25812	409.7292
17 Pyrene	202	5.527	5.515 (0.849)		26126	1.16522	379.4740
18 Benzo(a)anthracene	228	6.504	6.481 (0.999)		30361	1.41207	459.8669
20 Chrysene	228	6.520	6.508 (1.002)		28033	1.41129	459.6107
21 Benzo(b)fluoranthene	252	7.316	7.299 (0.962)		28320	1.31800	429.2304(M)
22 Benzo(k)fluoranthene	252	7.332	7.320 (0.964)		8444	0.30378	98.9303(QMH)
23 Benzo(a)pyrene	252	7.546	7.523 (0.992)		17143	0.84116	273.9381
25 Indeno(1,2,3-cd)pyrene	276	8.342	8.314 (1.097)		11550	0.70288	228.9064(M)
26 Dibenzo(a,h)anthracene	278	8.358	8.341 (1.099)		5534	0.40852	133.0432(M)
27 Benzo(g,h,i)perylene	276	8.556	8.522 (1.125)		18485	1.03113	335.8065

QC Flag Legend

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

Data File: 1AE29027.D

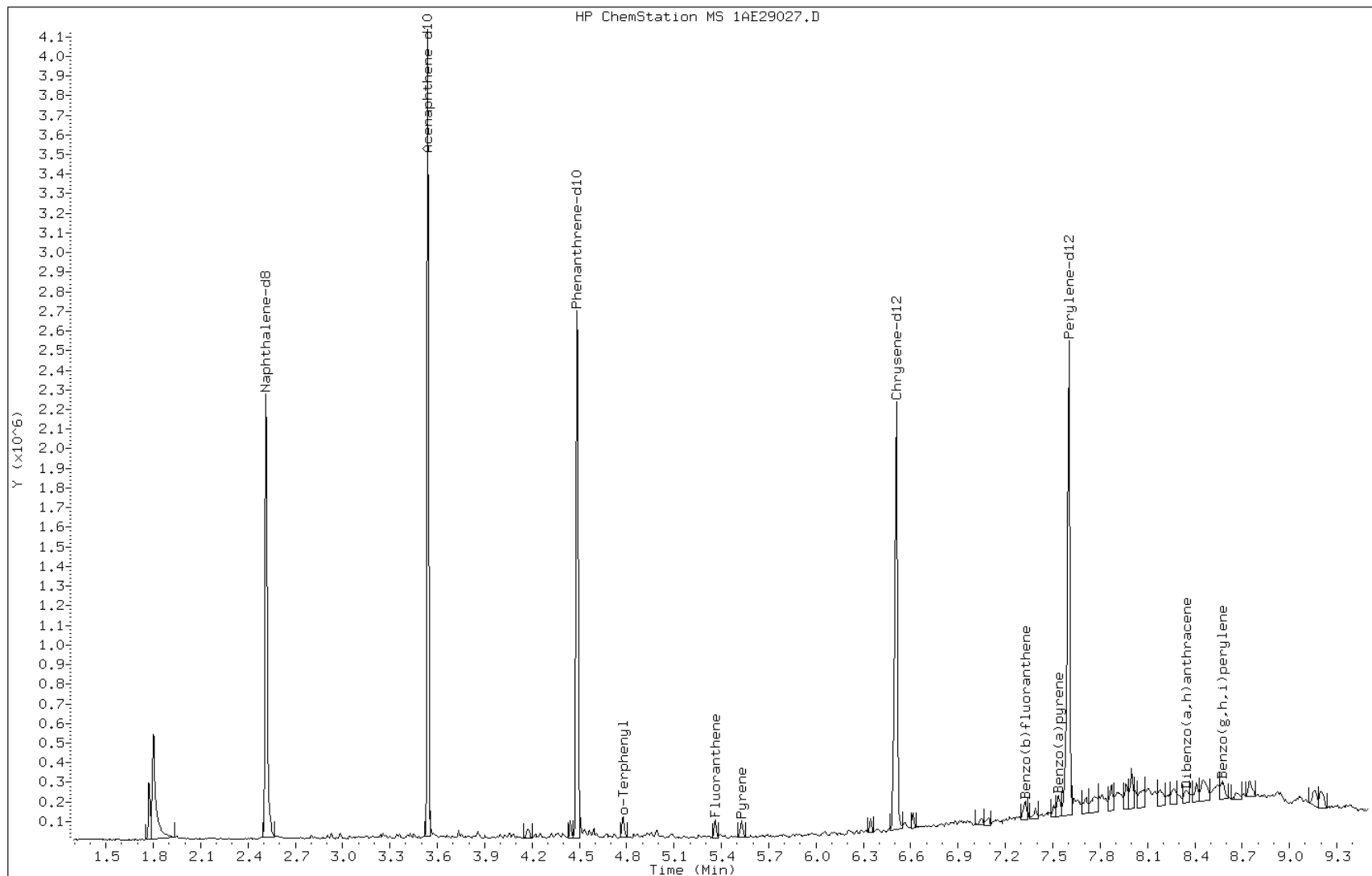
Date: 29-MAY-2013 20:44

Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

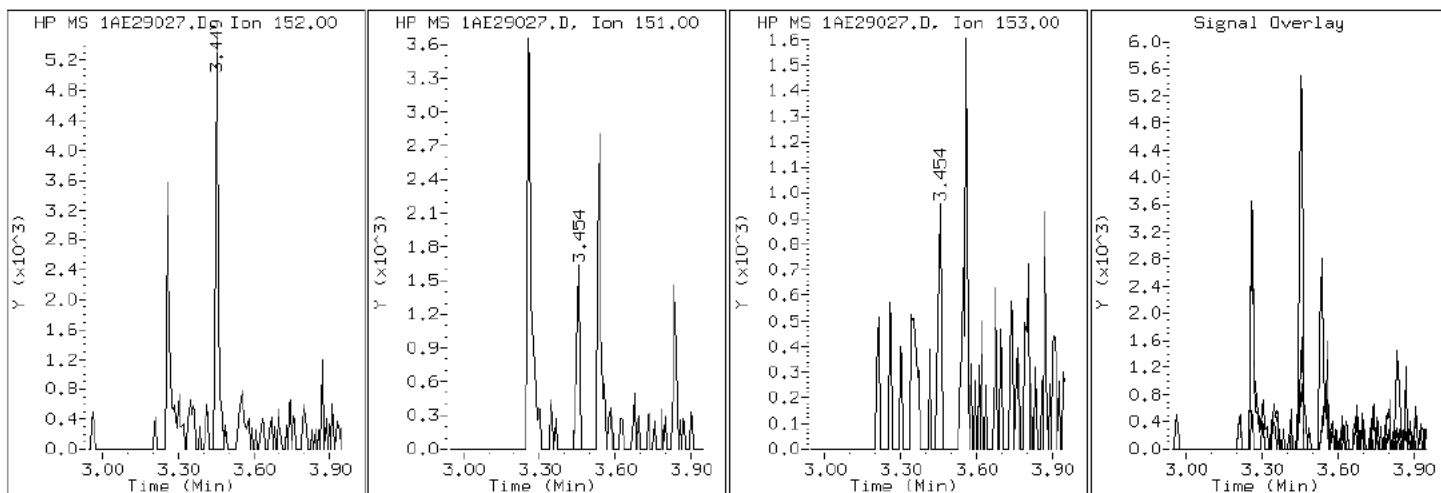
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

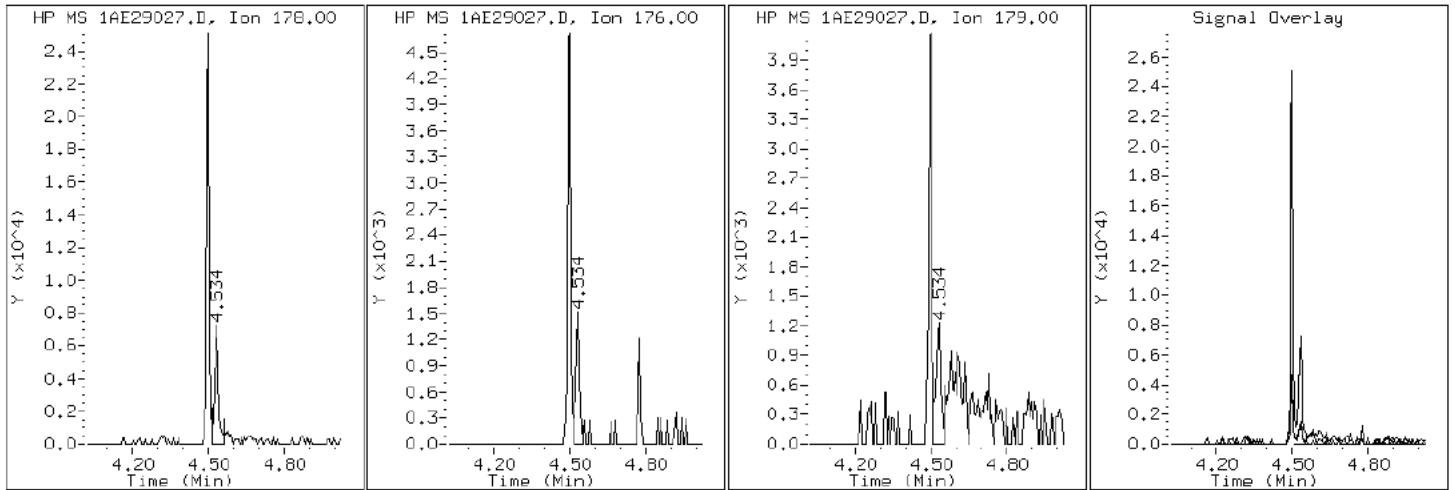
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

13 Anthracene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

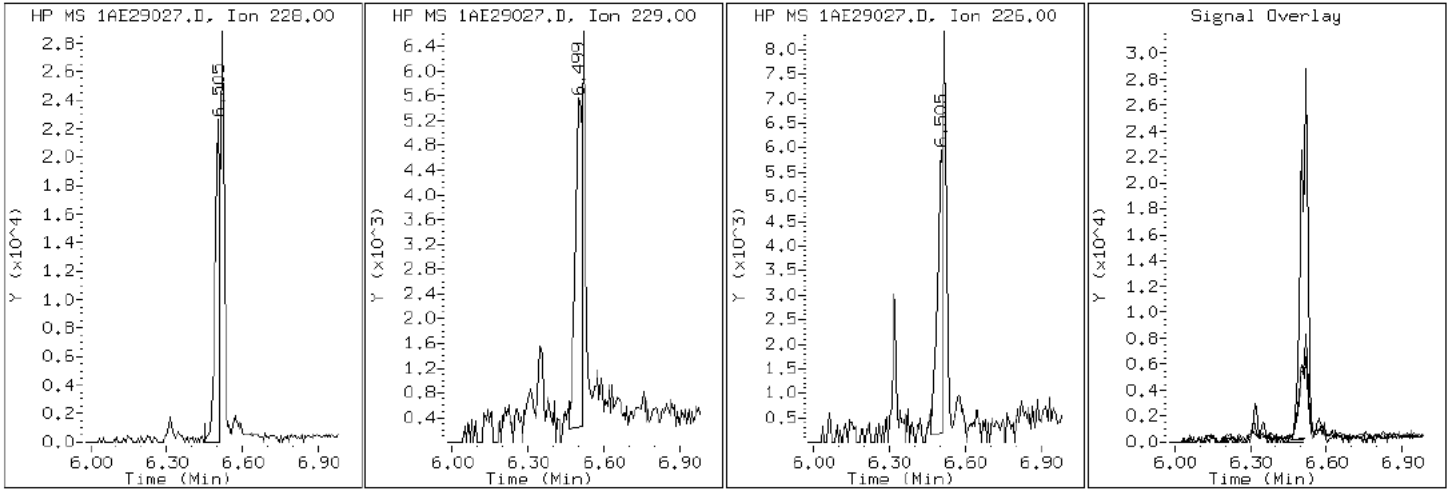
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

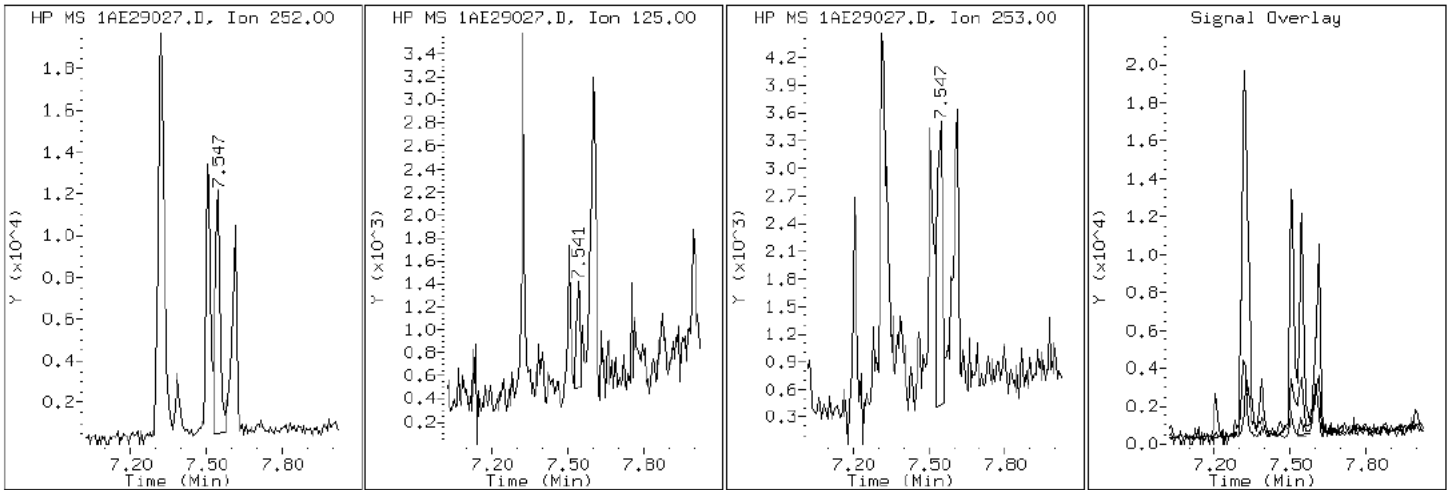
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

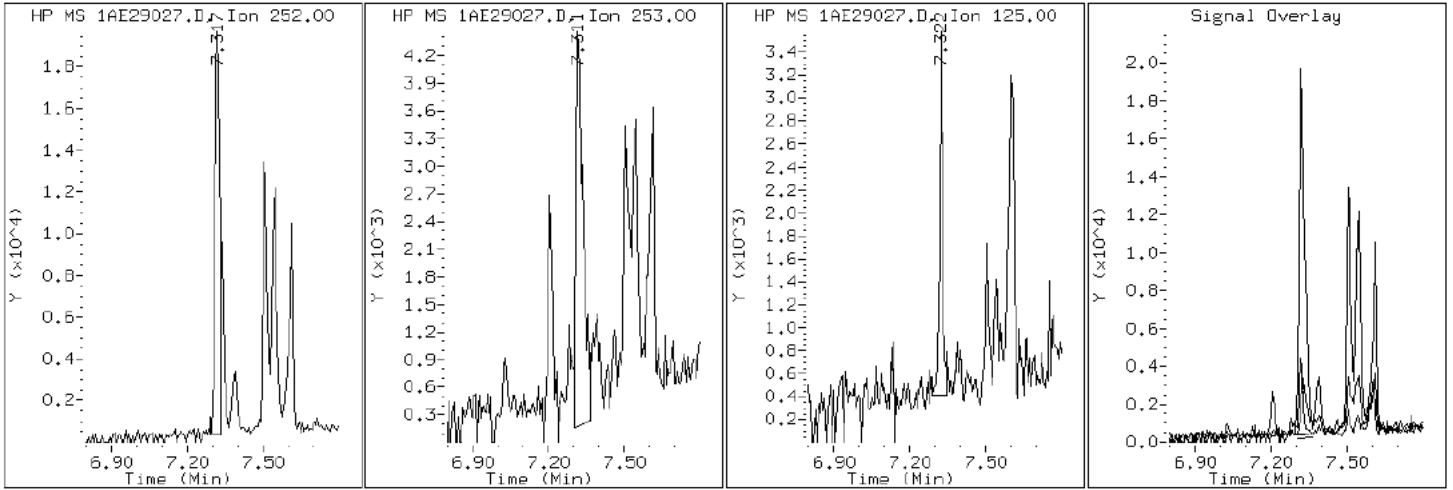
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

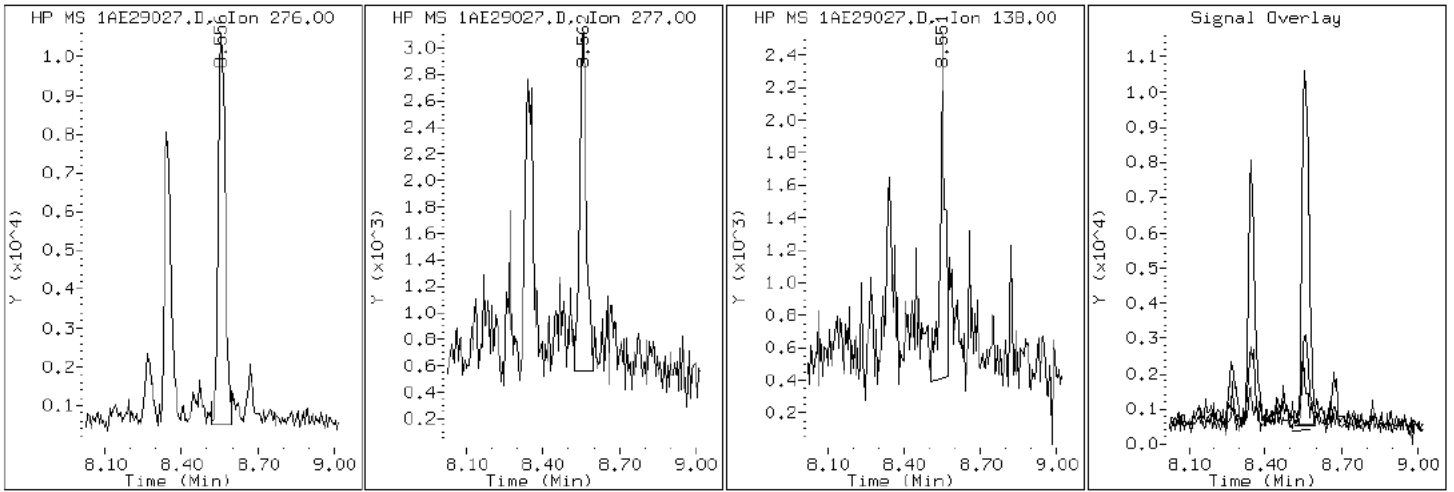
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

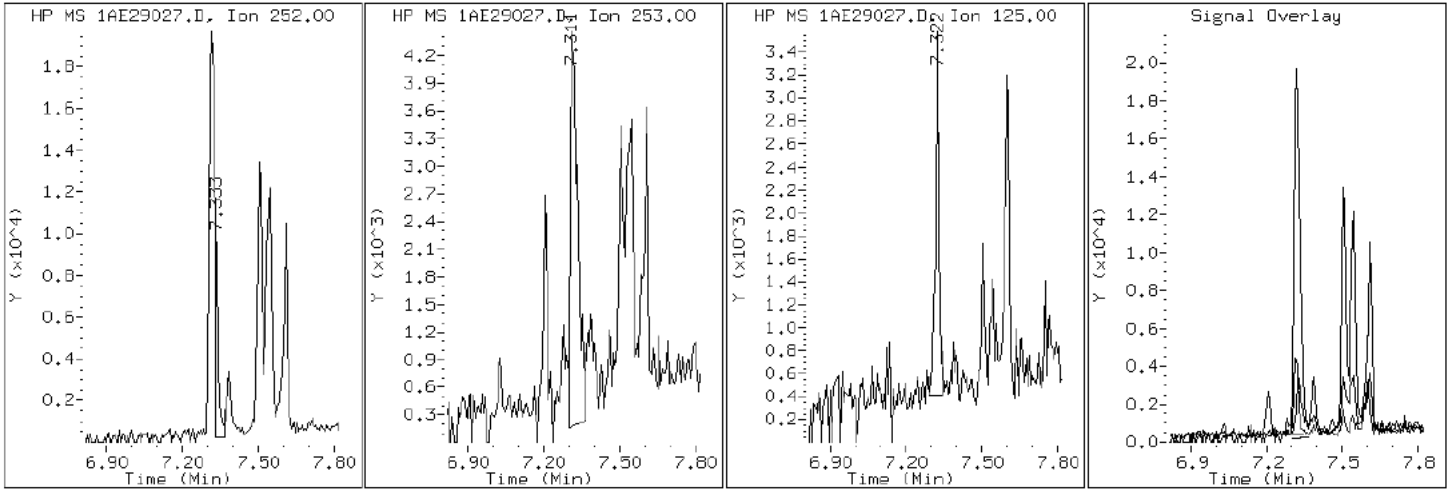
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

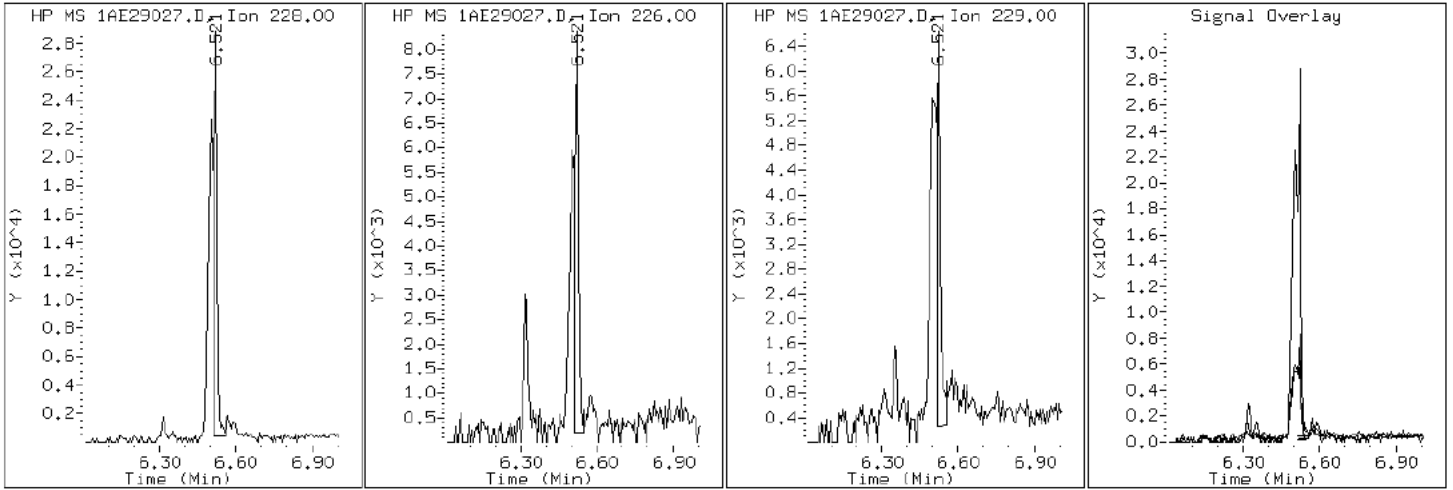
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

20 Chrysene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

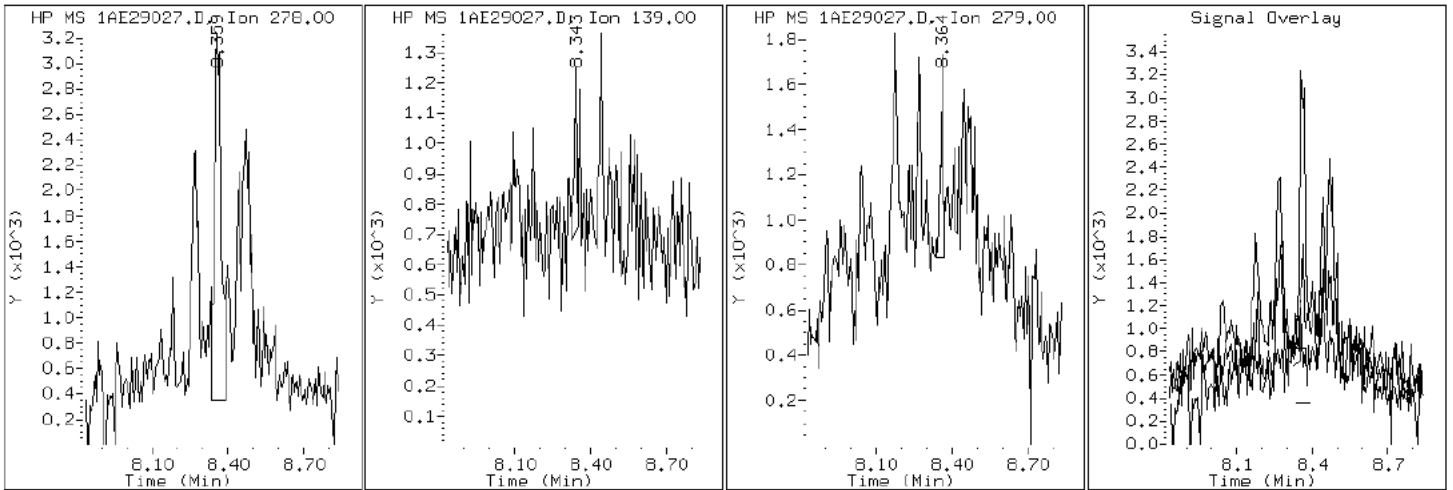
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

26 Dibenzo (a,h)anthracene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

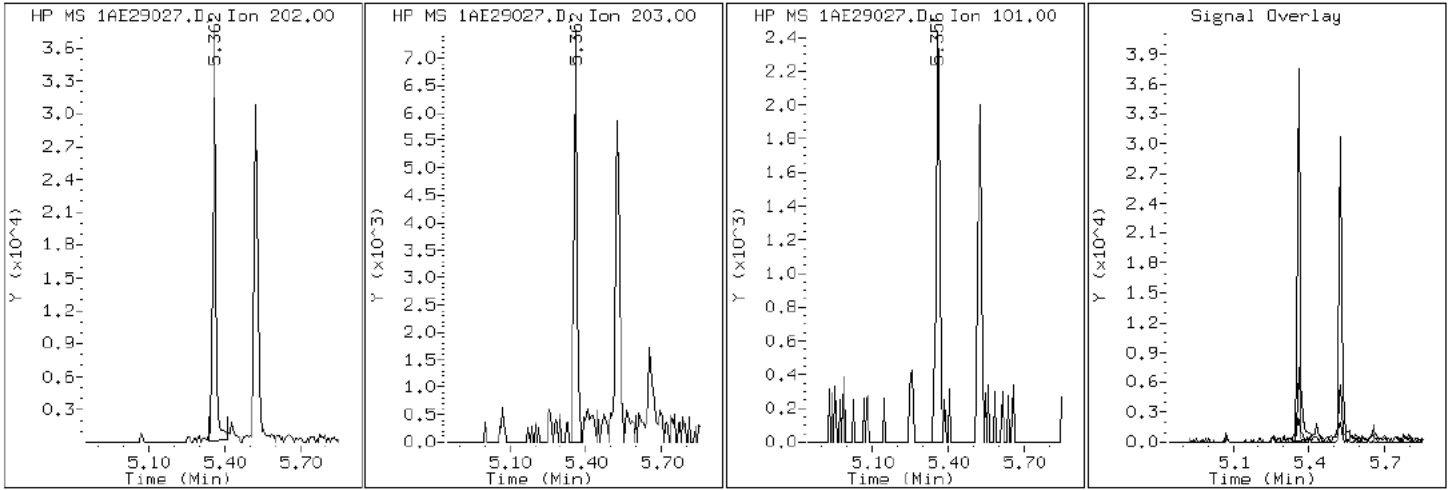
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

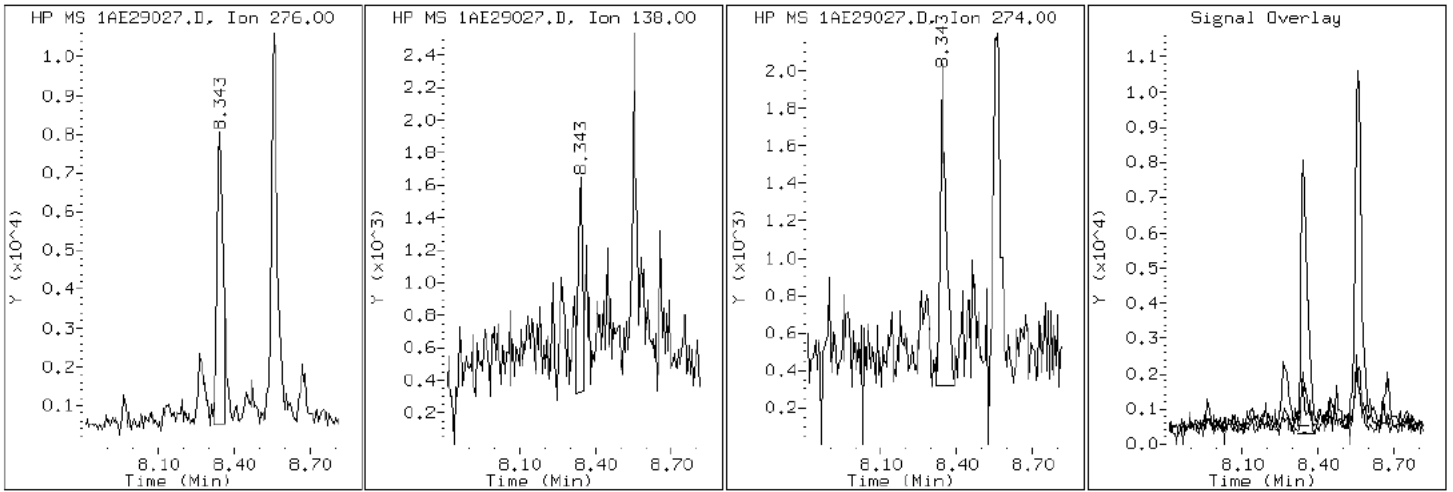
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

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



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

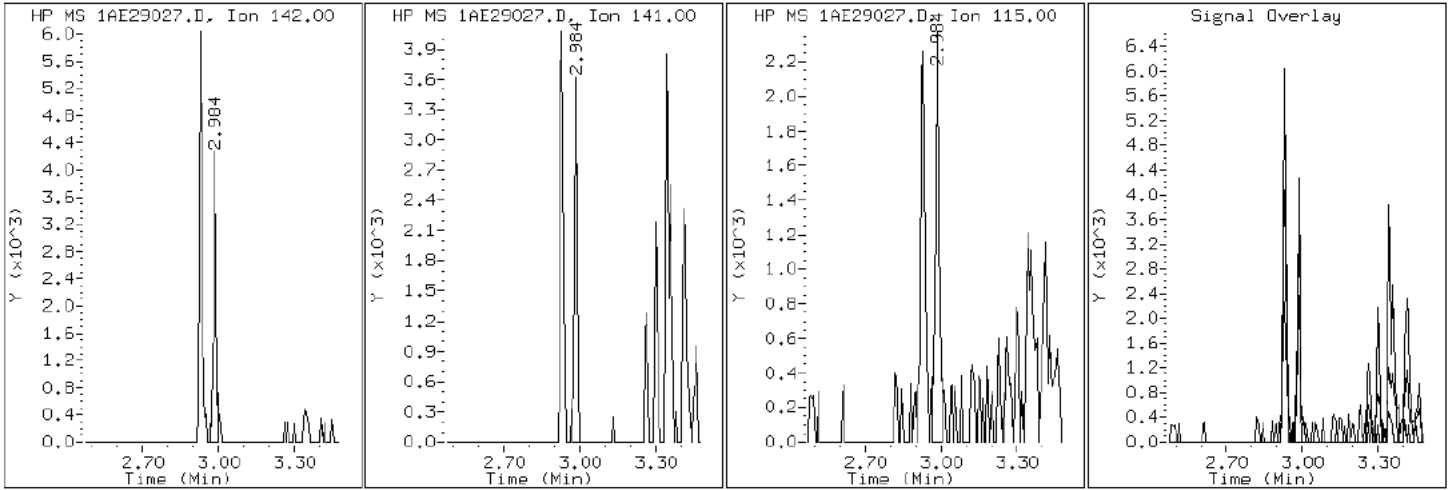
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

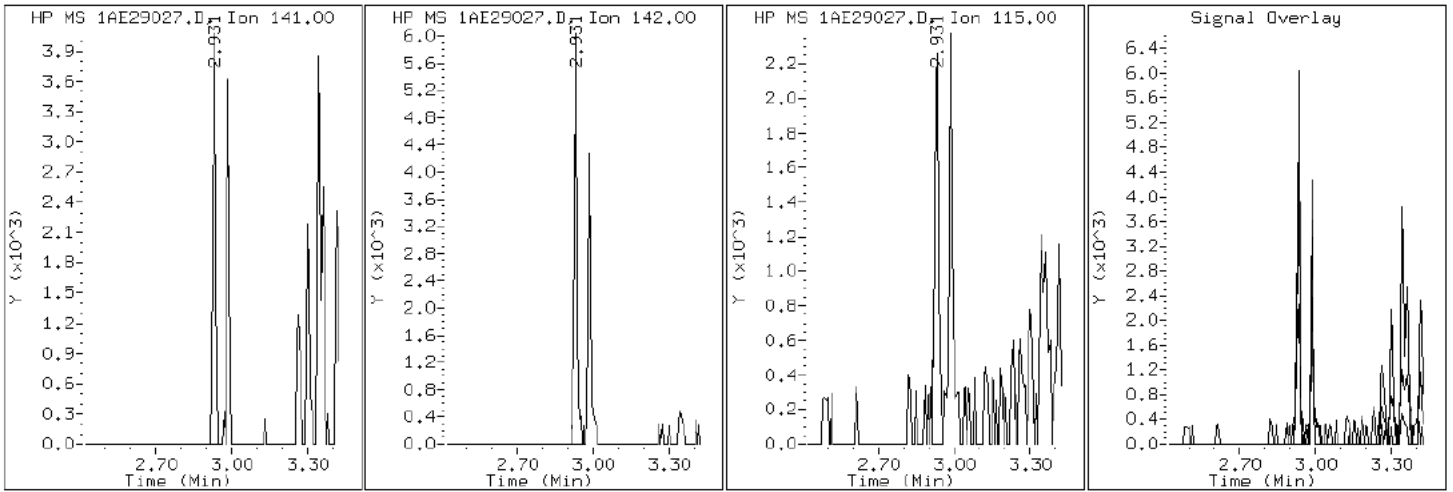
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

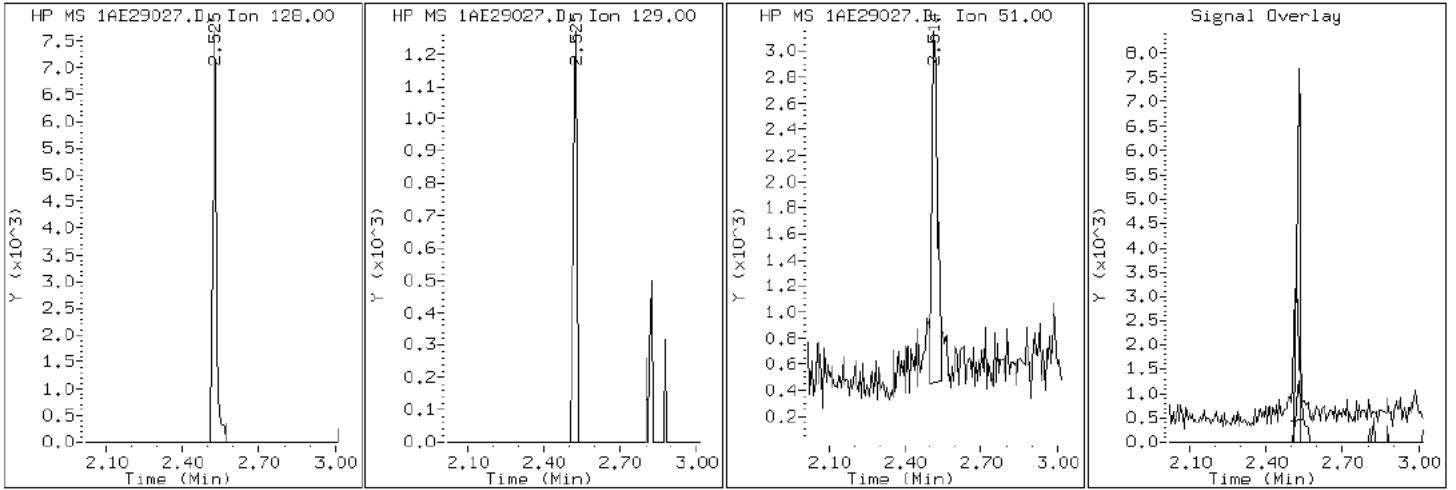
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

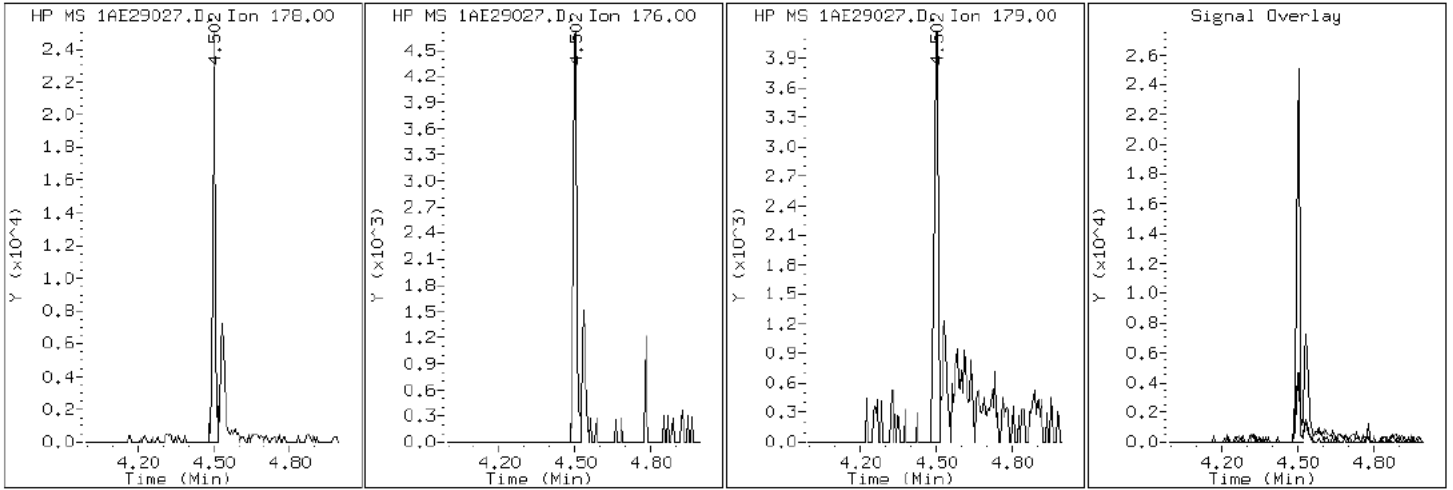
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29027.D

Date: 29-MAY-2013 20:44

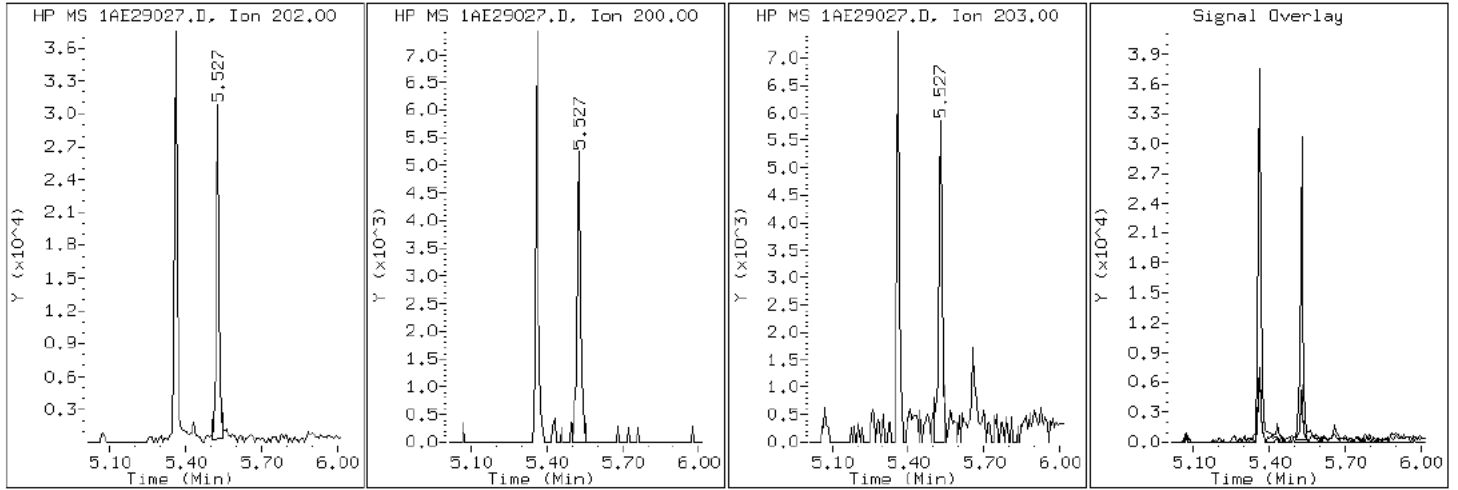
Client ID: CV0986A-CSD

Instrument: BSMA5973.i

Sample Info: 680-90686-a-2-a

Operator: SCC

17 Pyrene

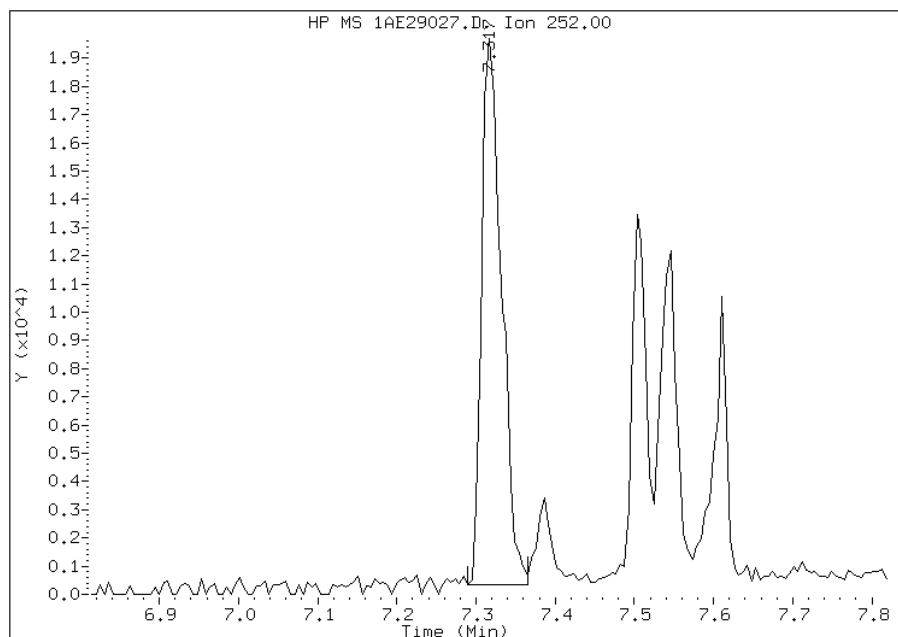


Manual Integration Report

Data File: 1AE29027.D
Inj. Date and Time: 29-MAY-2013 20:44
Instrument ID: BSMA5973.i
Client ID: CV0986A-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

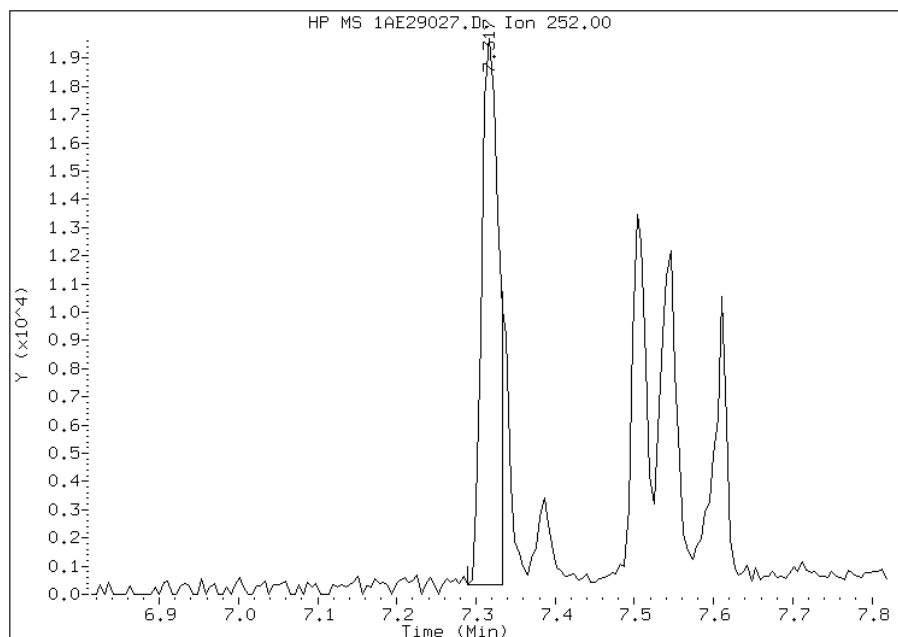
Processing Integration Results

RT: 7.32
Response: 33415
Amount: 2
Conc: 495



Manual Integration Results

RT: 7.32
Response: 28320
Amount: 1
Conc: 429



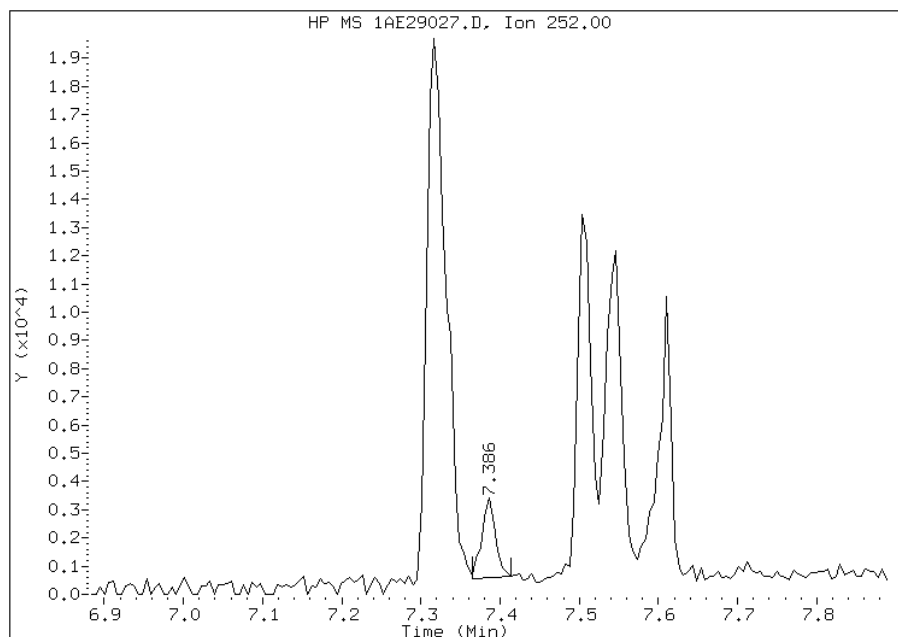
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29027.D
Inj. Date and Time: 29-MAY-2013 20:44
Instrument ID: BSMA5973.i
Client ID: CV0986A-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

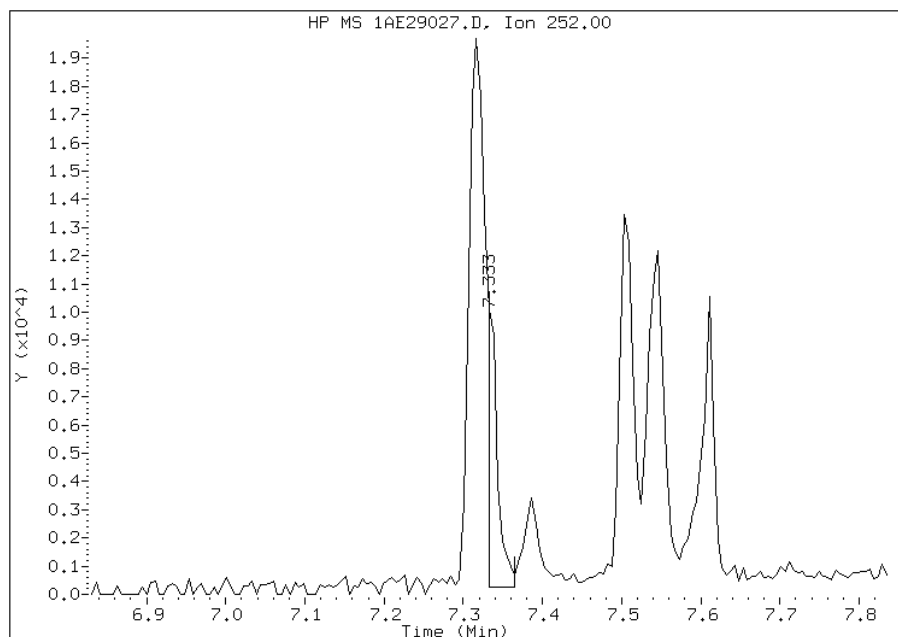
Processing Integration Results

RT: 7.39
Response: 3293
Amount: 0
Conc: 39



Manual Integration Results

RT: 7.33
Response: 8444
Amount: 0
Conc: 99



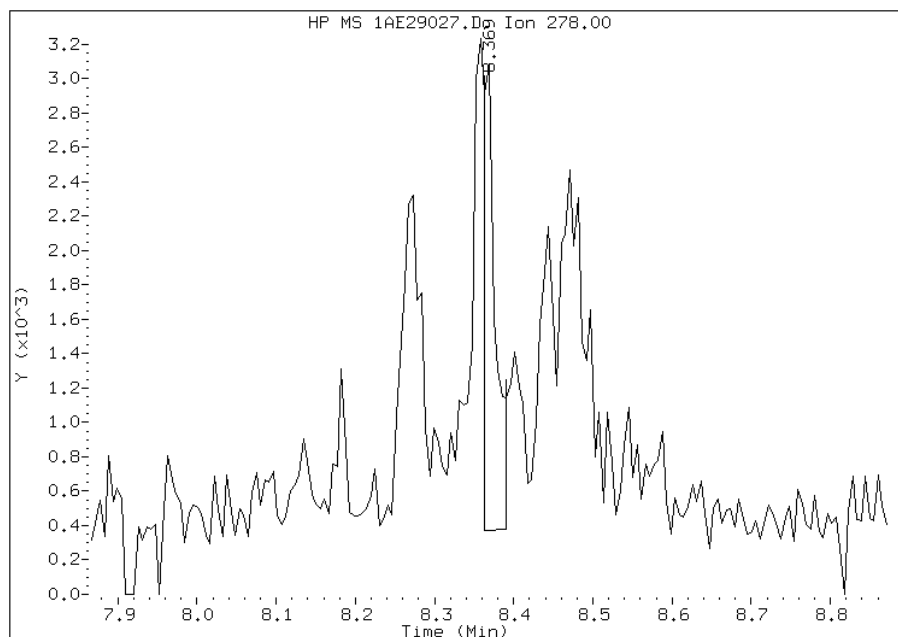
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29027.D
Inj. Date and Time: 29-MAY-2013 20:44
Instrument ID: BSMA5973.i
Client ID: CV0986A-CSD
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/04/2013

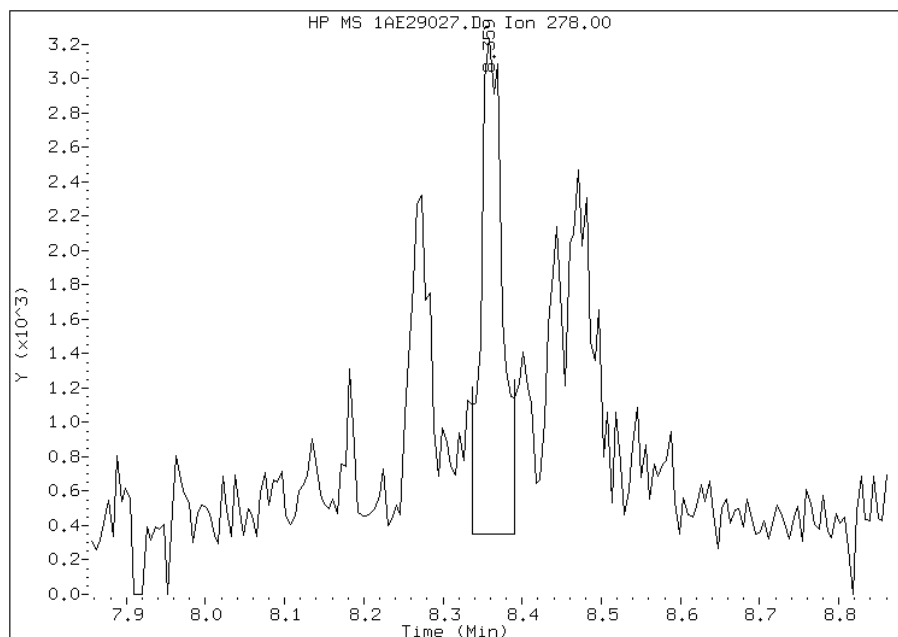
Processing Integration Results

RT: 8.37
Response: 2870
Amount: 0
Conc: 90



Manual Integration Results

RT: 8.36
Response: 5534
Amount: 0
Conc: 133



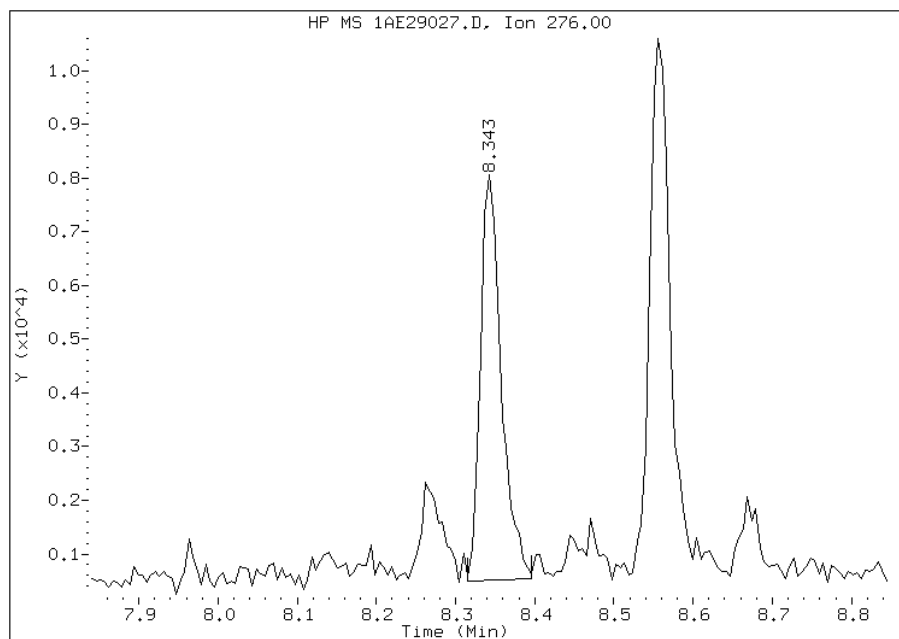
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29027.D
Inj. Date and Time: 29-MAY-2013 20:44
Instrument ID: BSMA5973.i
Client ID: CV0986A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

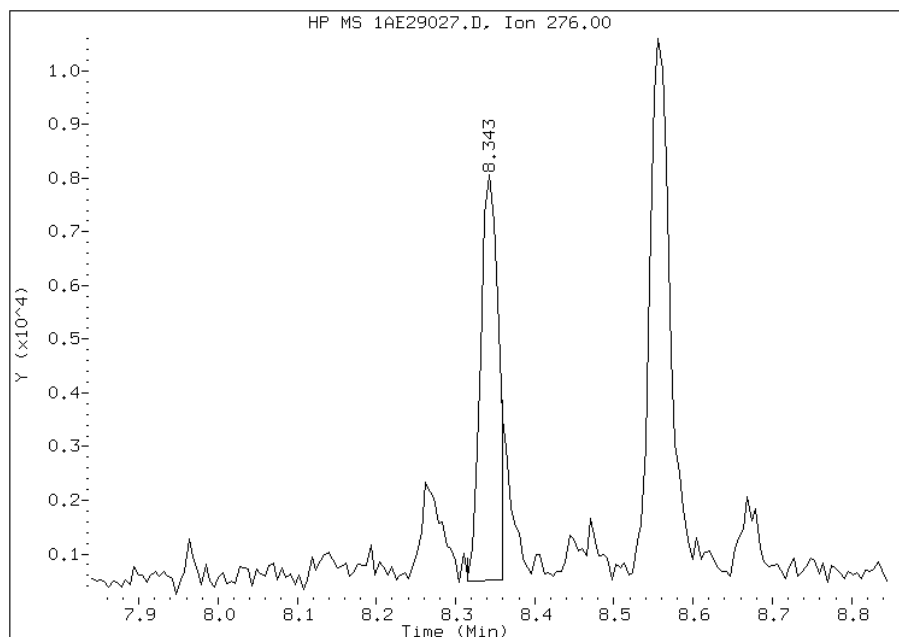
Processing Integration Results

RT: 8.34
Response: 13570
Amount: 1
Conc: 261



Manual Integration Results

RT: 8.34
Response: 11550
Amount: 1
Conc: 229



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0986B-CS Lab Sample ID: 680-90686-3
 Matrix: Solid Lab File ID: 1AE29028.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:05
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.15(g) Date Analyzed: 05/29/2013 21:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	J	500	99
208-96-8	Acenaphthylene	59	J	200	25
120-12-7	Anthracene	430		42	21
56-55-3	Benzo[a]anthracene	1200		40	19
50-32-8	Benzo[a]pyrene	610		52	26
205-99-2	Benzo[b]fluoranthene	890		61	30
191-24-2	Benzo[g,h,i]perylene	380		99	22
207-08-9	Benzo[k]fluoranthene	330		40	18
218-01-9	Chrysene	770		45	22
53-70-3	Dibenz(a,h)anthracene	140		99	20
206-44-0	Fluoranthene	1400		99	20
86-73-7	Fluorene	120		99	20
193-39-5	Indeno[1,2,3-cd]pyrene	340		99	35
90-12-0	1-Methylnaphthalene	140	J	200	22
91-57-6	2-Methylnaphthalene	210		200	35
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	1600		40	19
129-00-0	Pyrene	1300		99	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29028.D
 Lab Smp Id: 680-90686-A-3-A Client Smp ID: CV0986B-CS
 Inj Date : 29-MAY-2013 21:00
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-3-a
 Misc Info : 680-90686-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 25
 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	20.222	% 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		2.517	2.512	(1.000)	981411	40.0000		
* 7 Acenaphthene-d10	164		3.543	3.533	(1.000)	643681	40.0000		
* 11 Phenanthrene-d10	188		4.488	4.478	(1.000)	870557	40.0000		
\$ 15 o-Terphenyl	230		4.777	4.772	(1.064)	12619	1.00221	331.6821	
* 19 Chrysene-d12	240		6.513	6.492	(1.000)	684208	40.0000		
* 24 Perylene-d12	264		7.608	7.571	(1.000)	716993	40.0000		
2 Naphthalene	128		2.528	2.518	(1.004)	9650	0.43429	143.7288	
3 2-Methylnaphthalene	141		2.929	2.924	(1.163)	6754	0.63839	211.2752	
4 1-Methylnaphthalene	142		2.987	2.977	(1.187)	6709	0.43415	143.6823	
5 1,1'-Biphenyl	154		3.206	3.207	(1.274)	1492	0.08643	28.6053	
6 Acenaphthylene	152		3.452	3.447	(0.974)	5003	0.17764	58.7896	
8 Acenaphthene	154		3.559	3.554	(1.005)	6058	0.40244	133.1887	
9 Dibenzofuran	168		3.660	3.655	(1.033)	7288	0.31624	104.6591	
10 Fluorene	166		3.869	3.864	(1.092)	6252	0.35777	118.4043	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Phenanthrene	178	4.499	4.494 (1.002)		95638	4.87787	1614.3421
13 Anthracene	178	4.531	4.526 (1.010)		26392	1.28671	425.8408
16 Fluoranthene	202	5.365	5.354 (1.195)		103917	4.24499	1404.8882
17 Pyrene	202	5.530	5.515 (0.849)		78975	3.83052	1267.7205
18 Benzo(a)anthracene	228	6.502	6.481 (0.998)		72644	3.74876	1240.6615
20 Chrysene	228	6.524	6.508 (1.002)		42462	2.32477	769.3887
21 Benzo(b)fluoranthene	252	7.320	7.299 (0.962)		53839	2.68543	888.7486(M)
22 Benzo(k)fluoranthene	252	7.330	7.320 (0.963)		23513	0.98567	326.2097(QMH)
23 Benzo(a)pyrene	252	7.544	7.523 (0.992)		32500	1.85819	614.9736
25 Indeno(1,2,3-cd)pyrene	276	8.345	8.314 (1.097)		15891	1.04113	344.5652(M)
26 Dibenzo(a,h)anthracene	278	8.367	8.341 (1.100)		4792	0.41099	136.0196
27 Benzo(g,h,i)perylene	276	8.559	8.522 (1.125)		17663	1.14809	379.9633

QC Flag Legend

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

Data File: 1AE29028.D

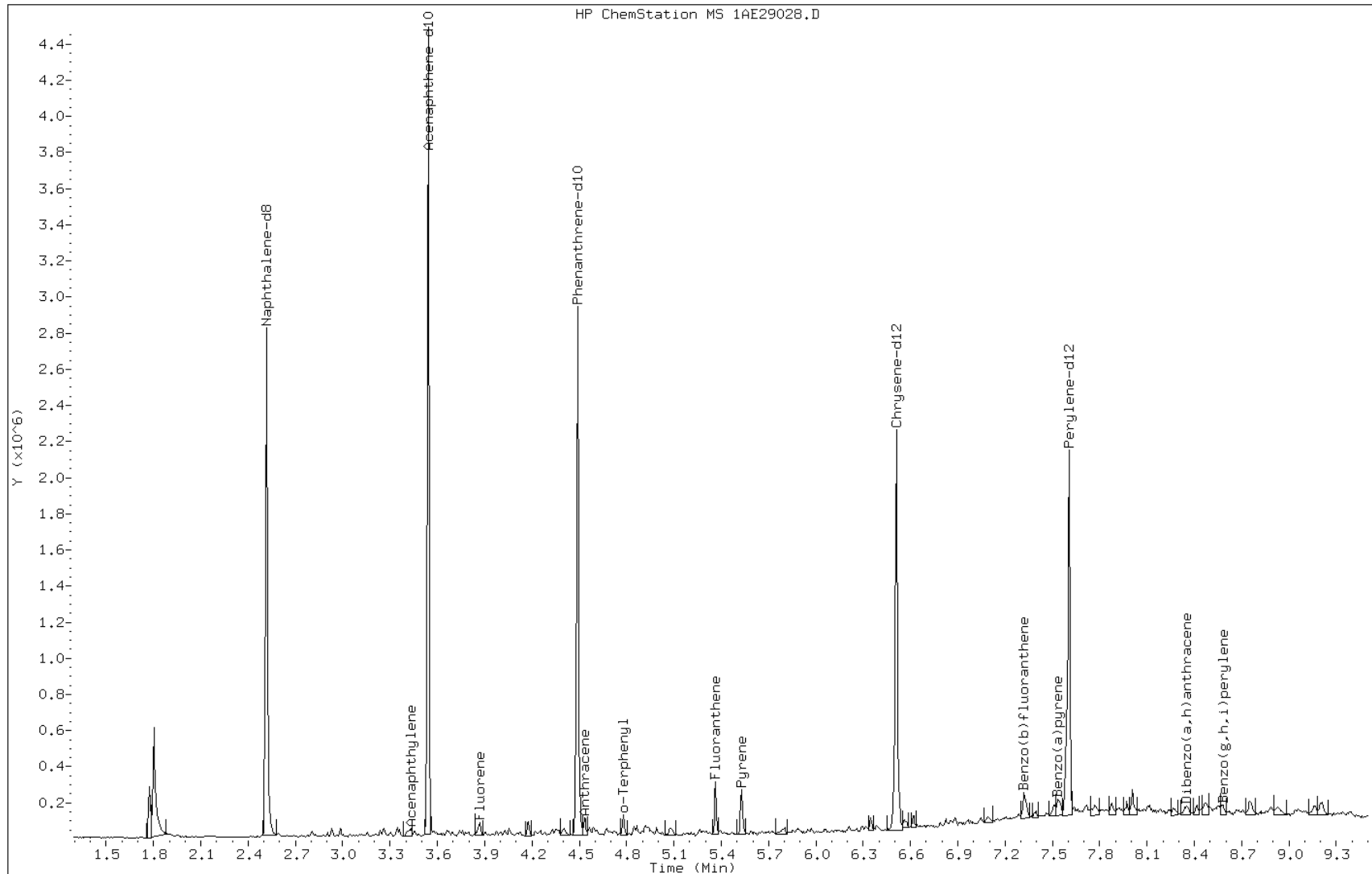
Date: 29-MAY-2013 21:00

Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

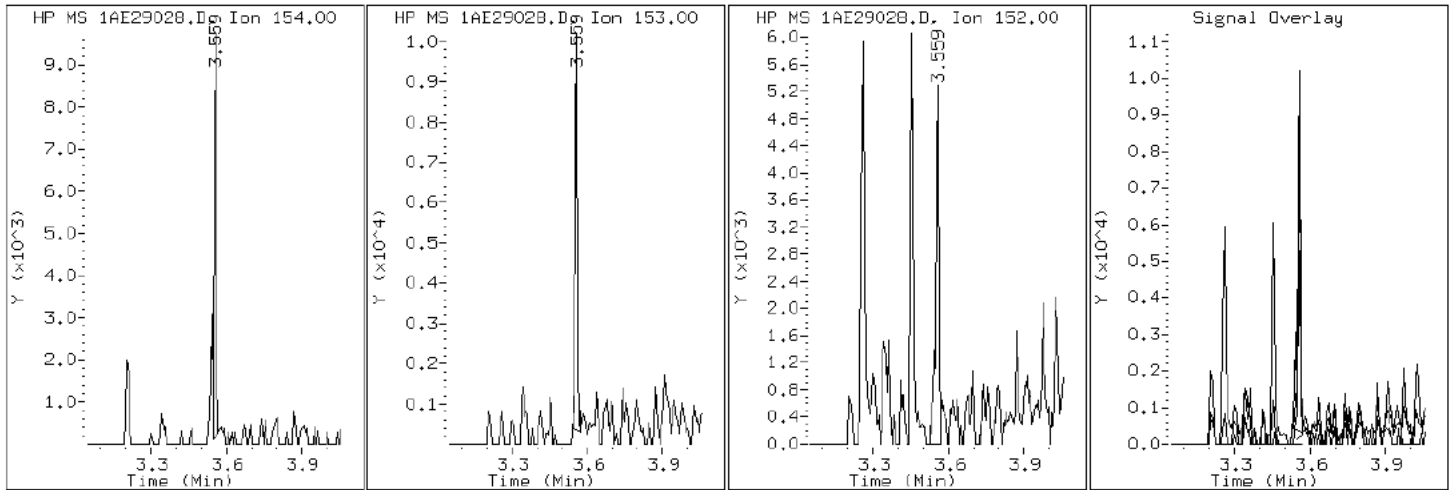
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

8 Acenaphthene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

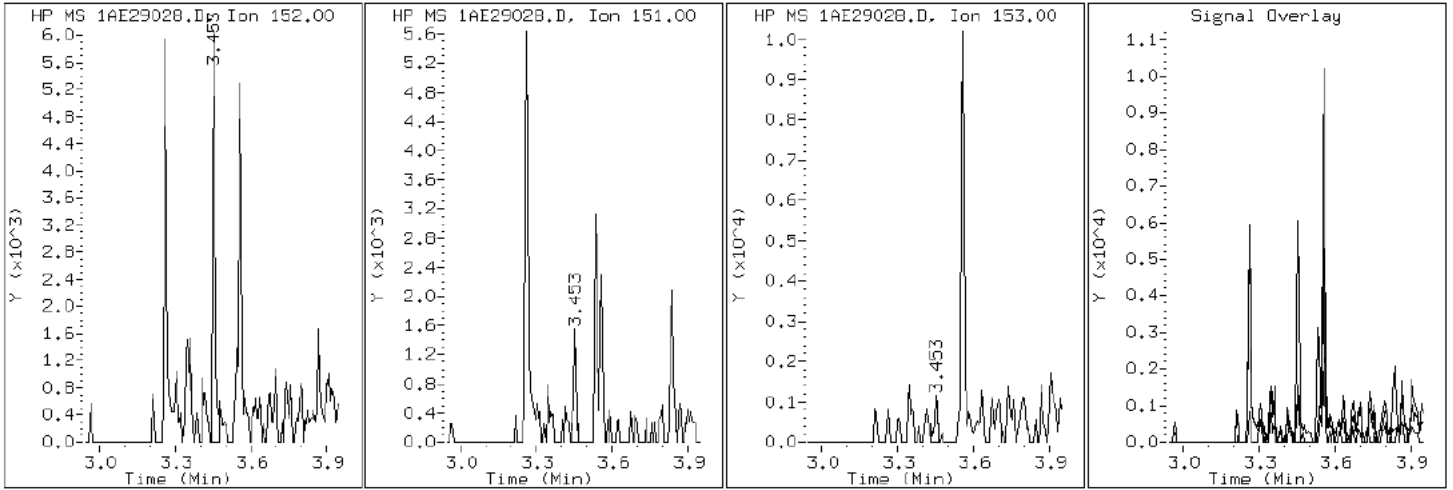
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

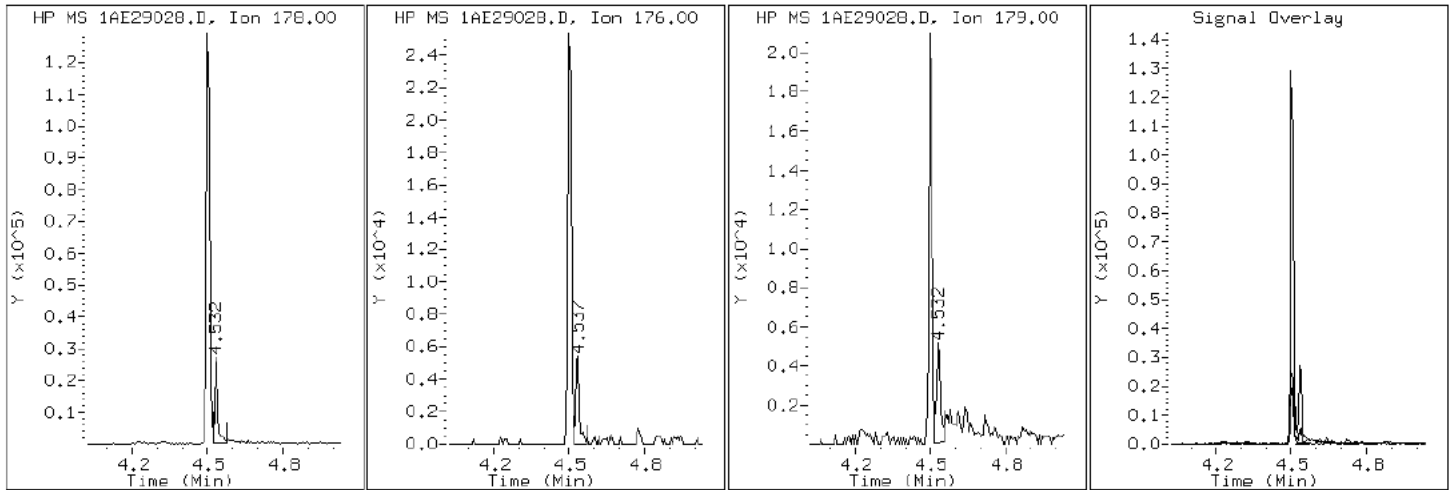
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

13 Anthracene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

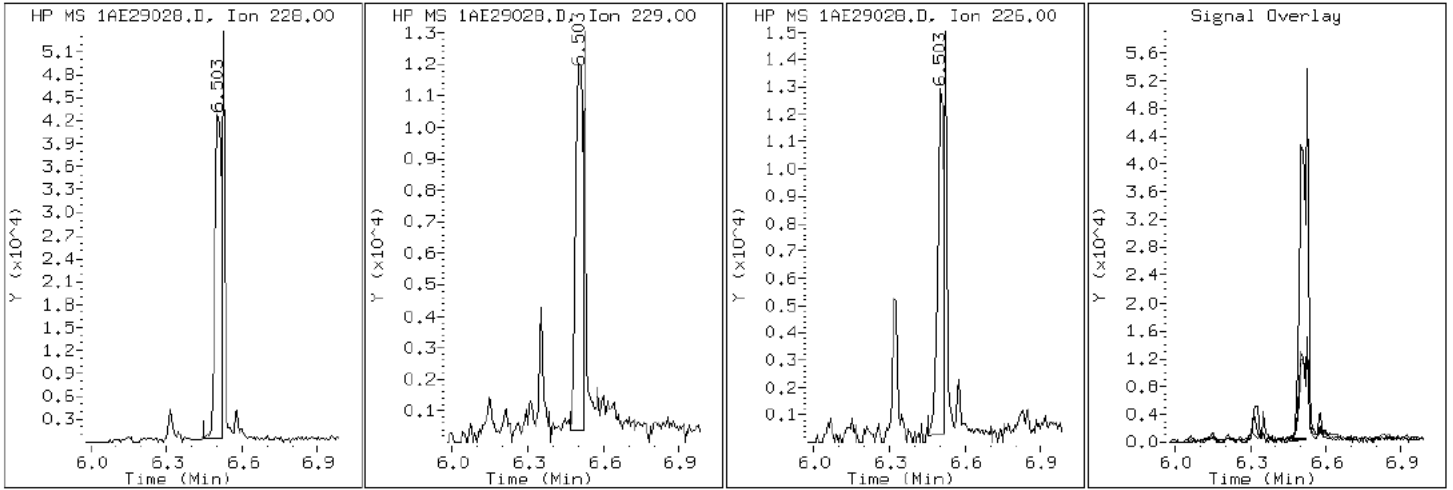
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

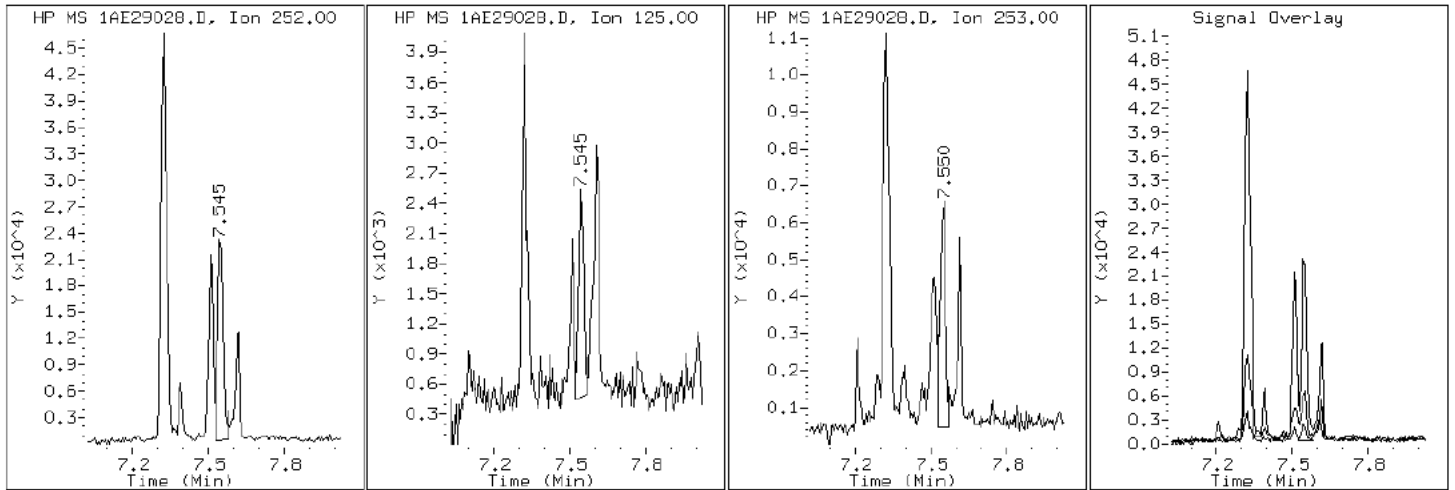
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

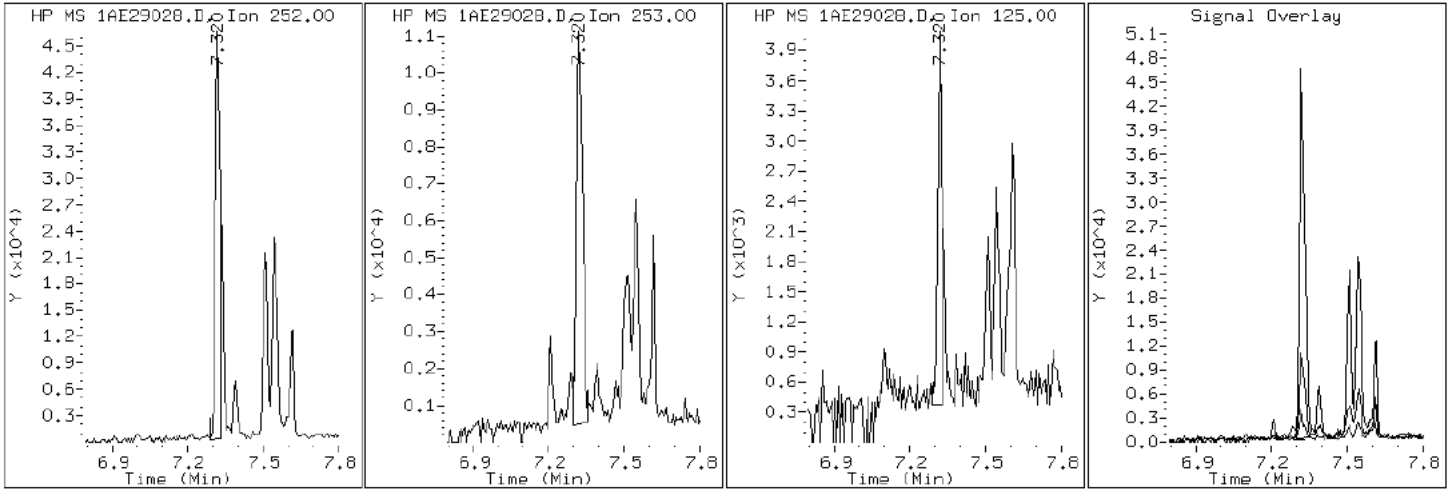
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

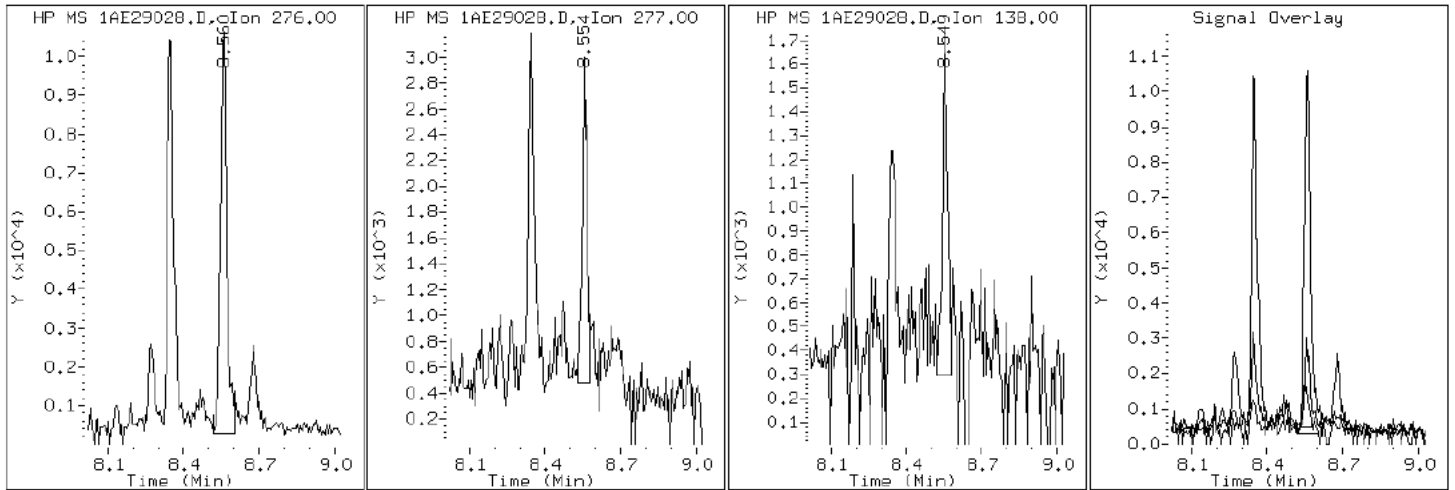
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

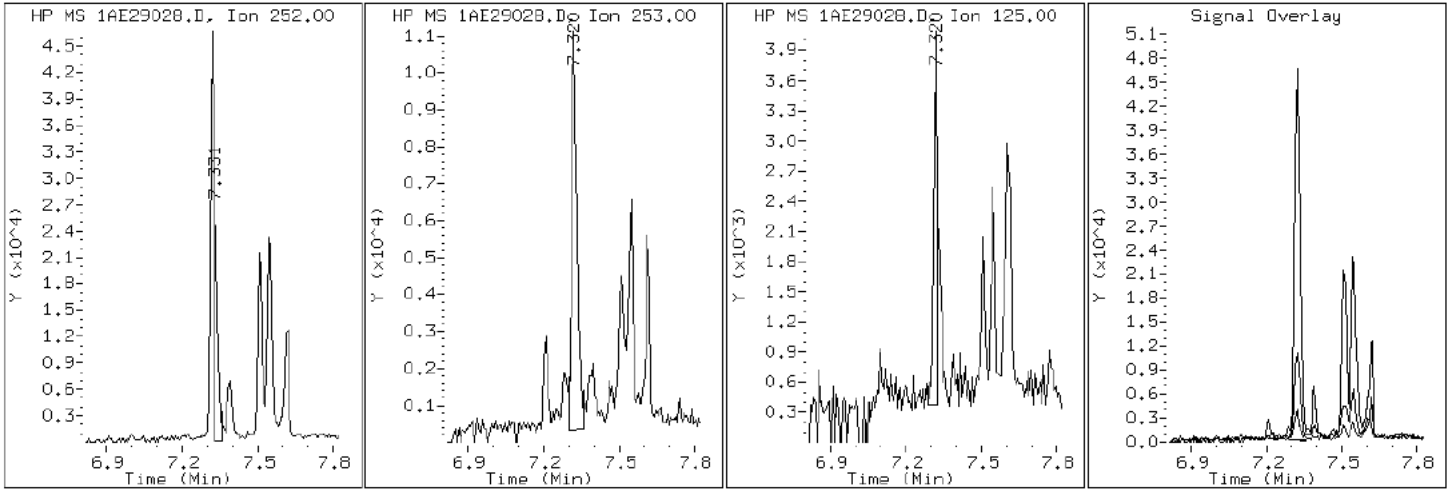
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

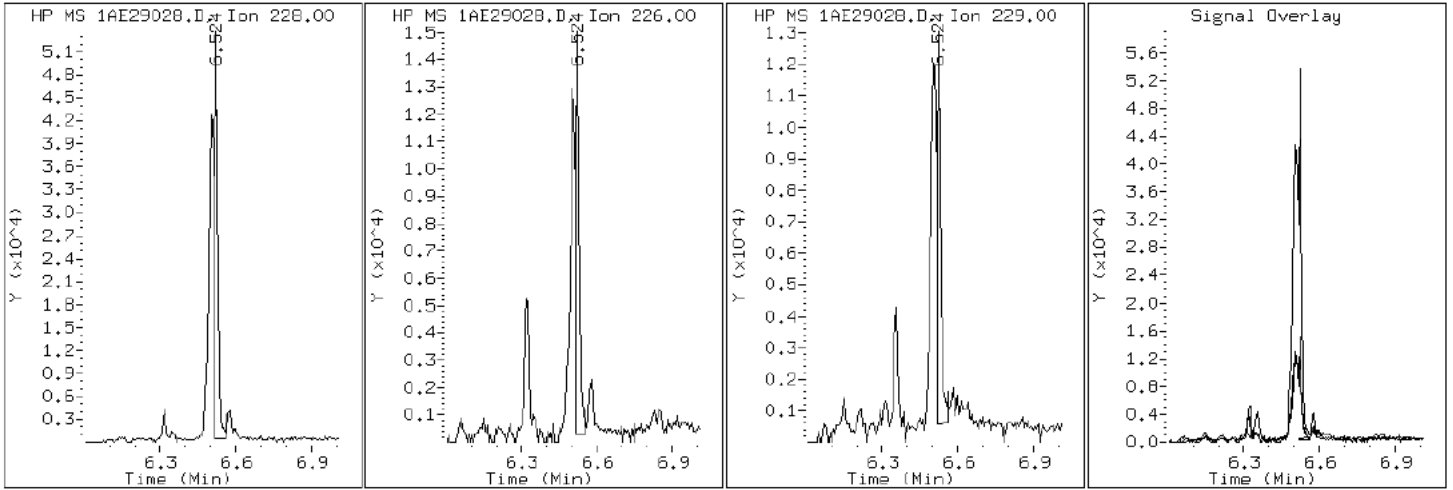
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

20 Chrysene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

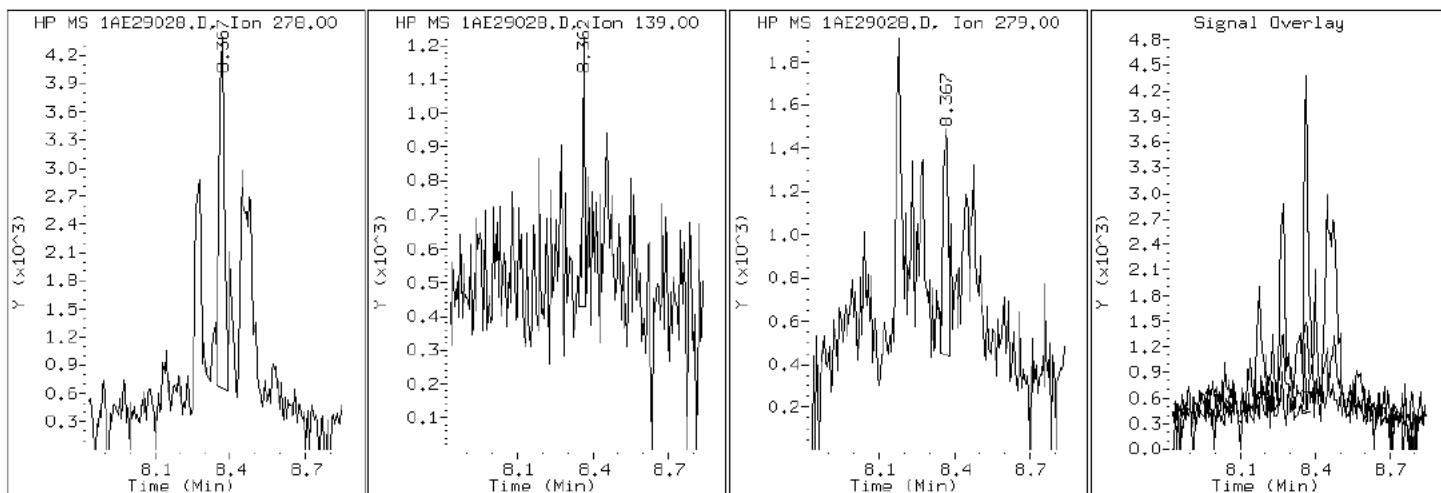
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

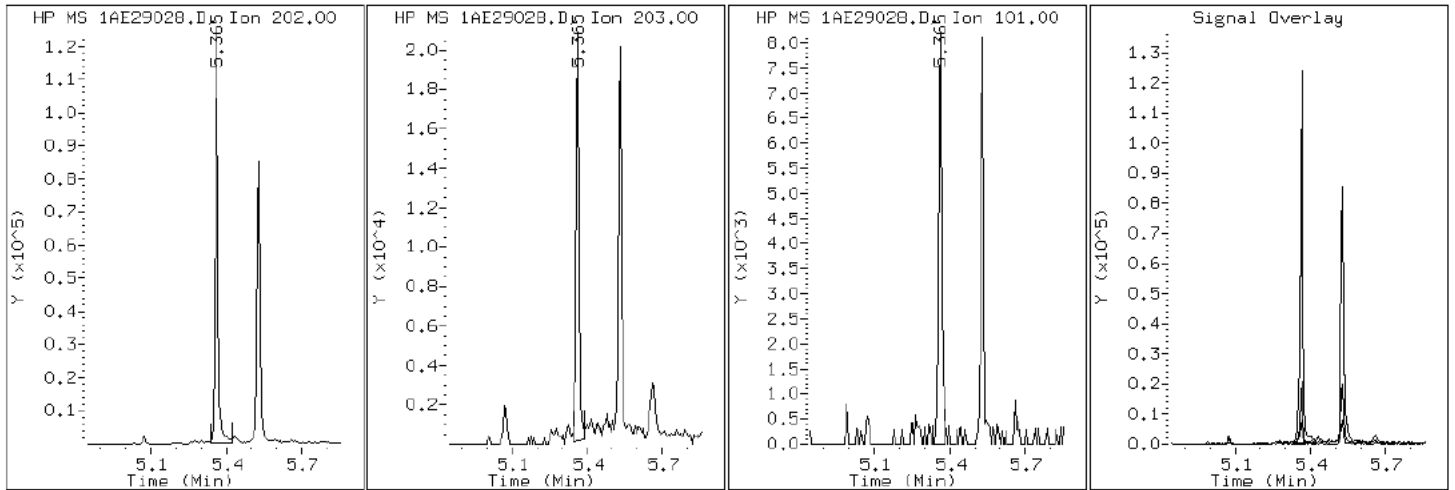
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

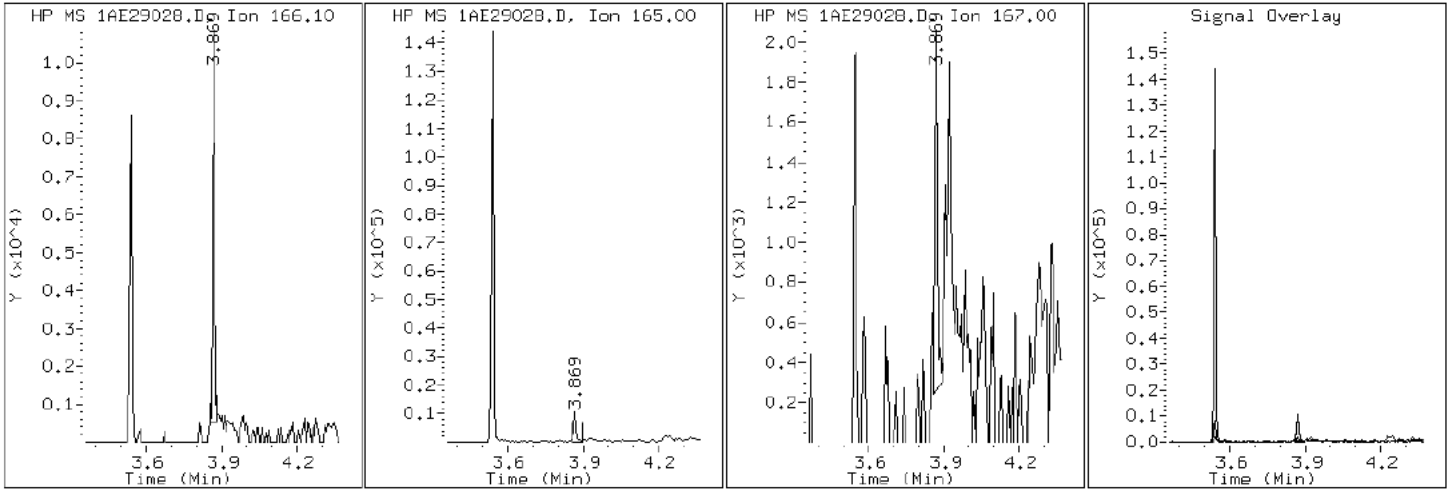
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

10 Fluorene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

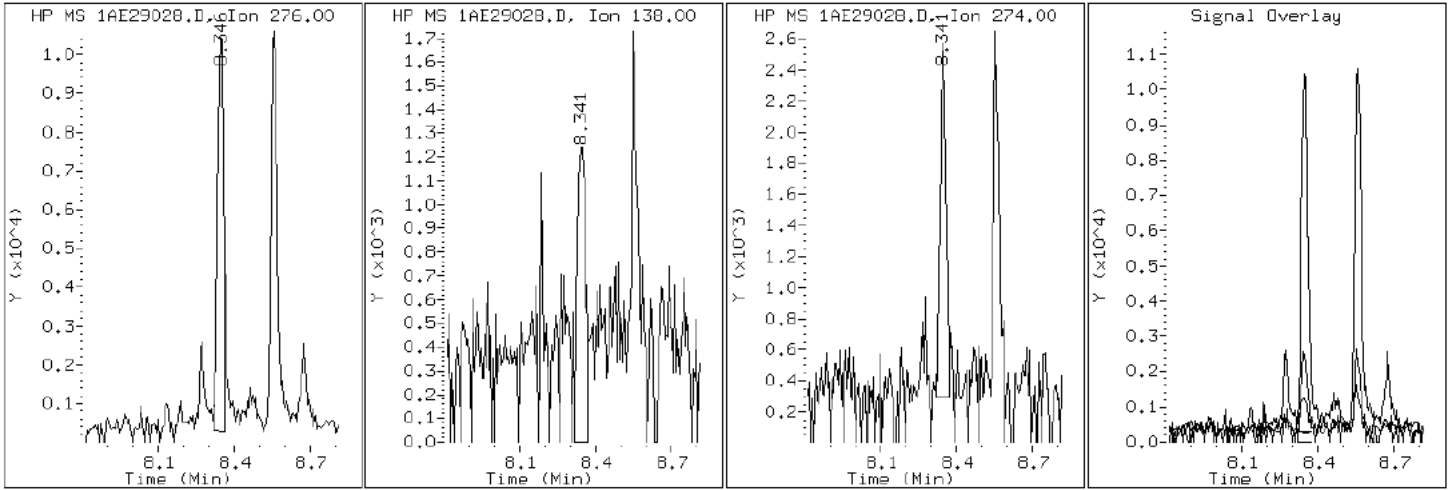
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

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



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

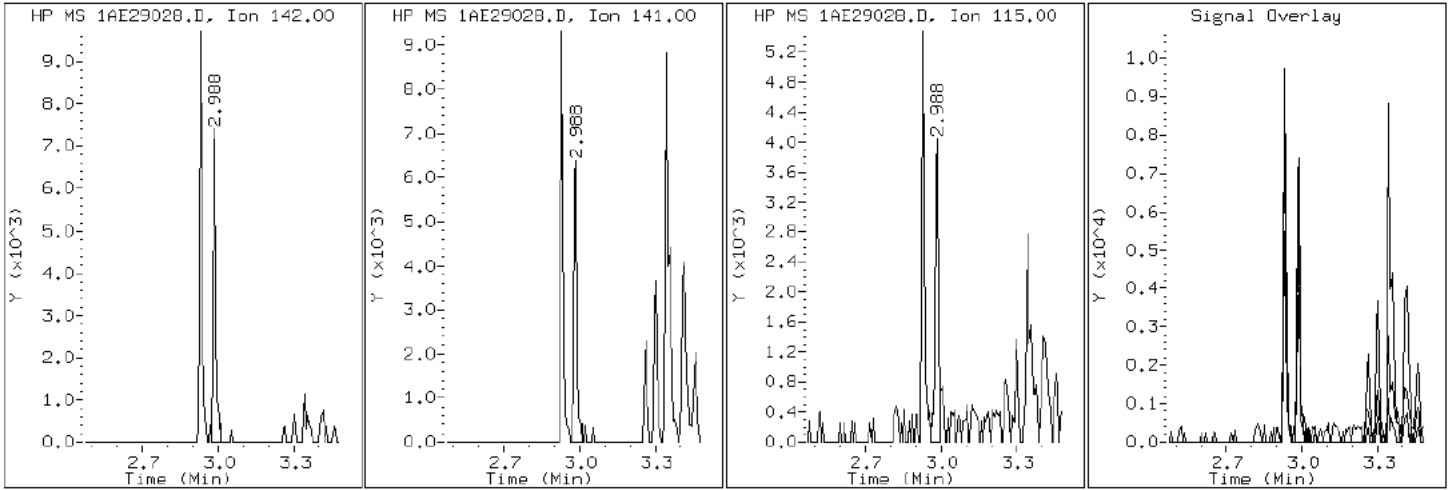
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

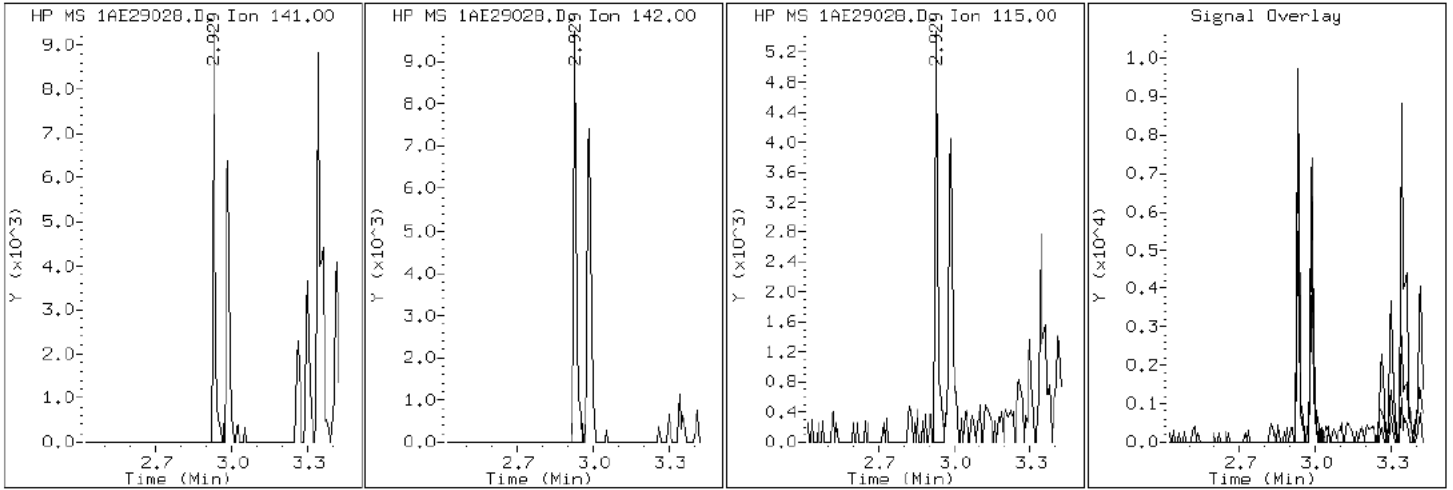
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

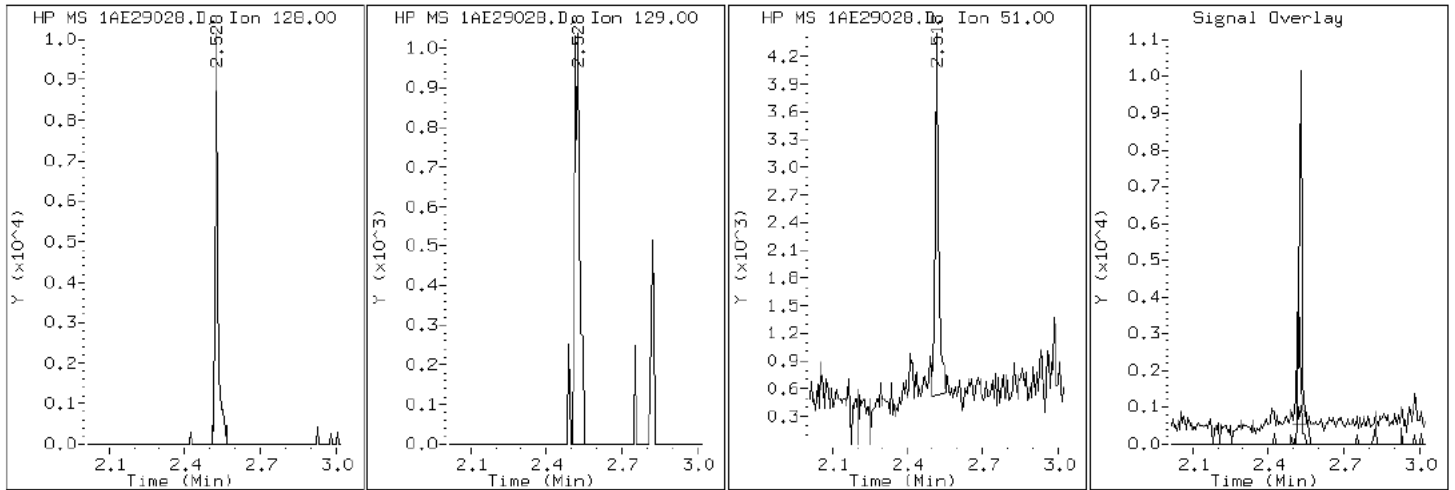
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

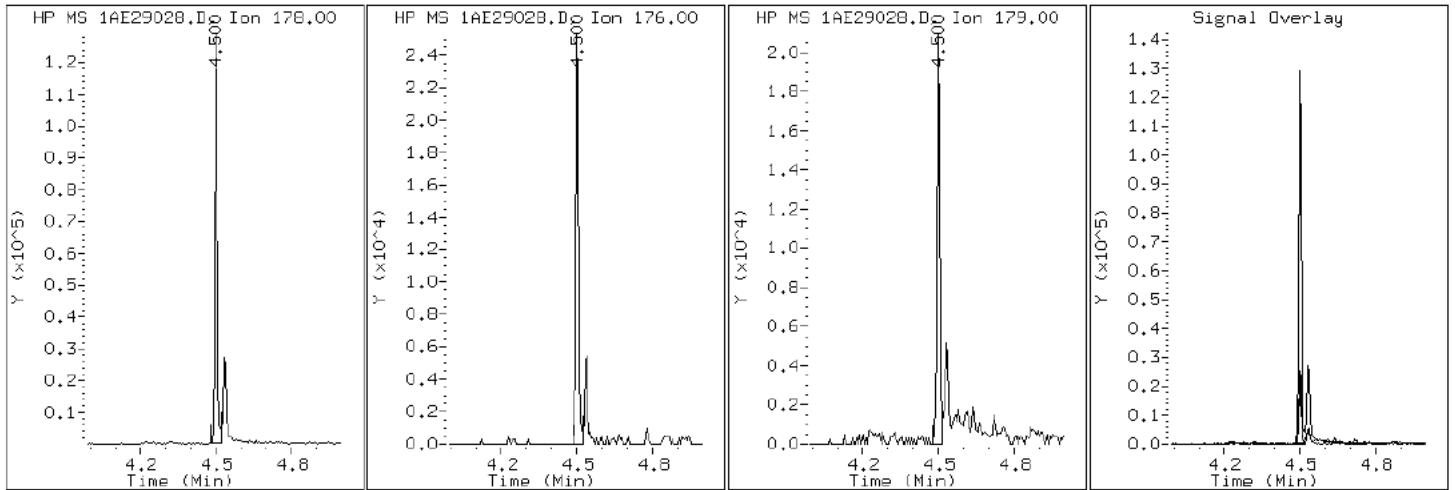
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29028.D

Date: 29-MAY-2013 21:00

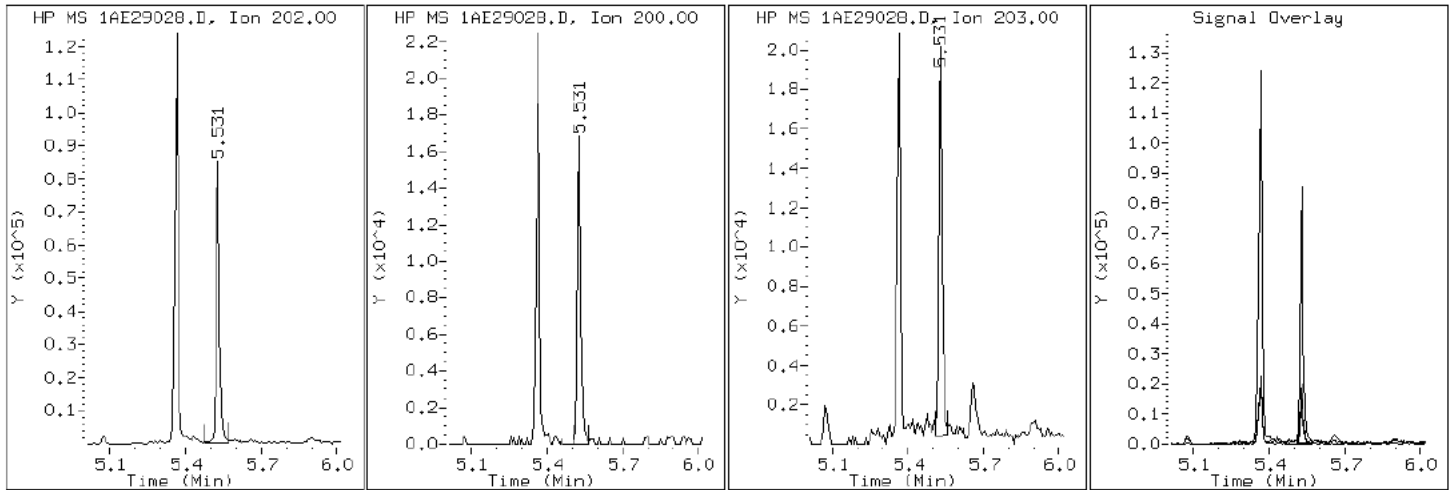
Client ID: CV0986B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-3-a

Operator: SCC

17 Pyrene

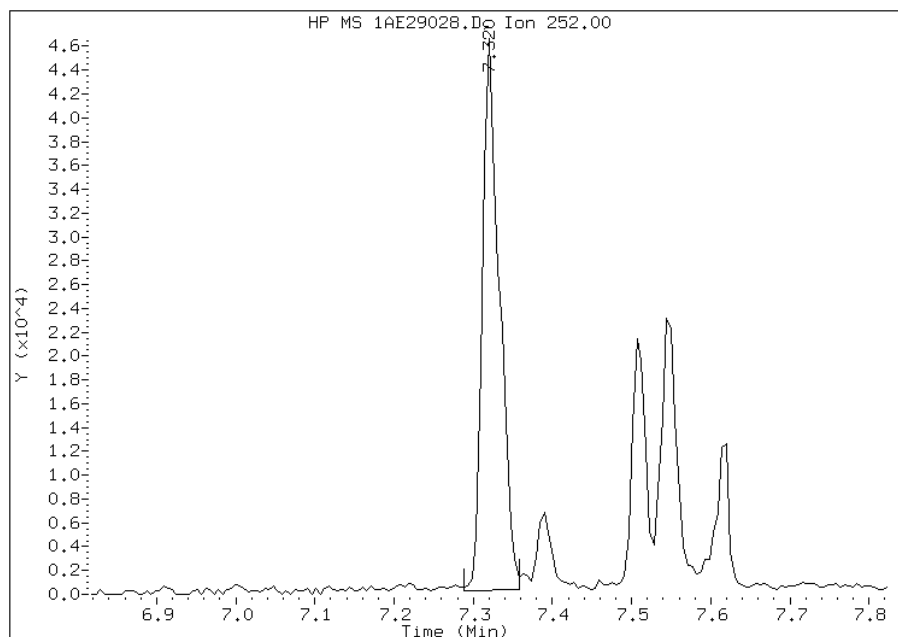


Manual Integration Report

Data File: 1AE29028.D
Inj. Date and Time: 29-MAY-2013 21:00
Instrument ID: BSMA5973.i
Client ID: CV0986B-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

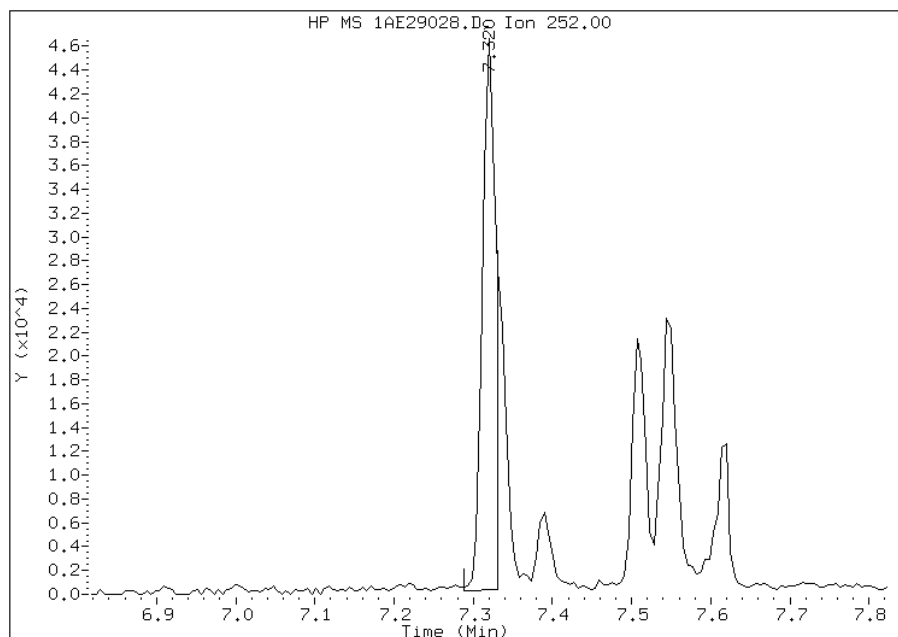
Processing Integration Results

RT: 7.32
Response: 68305
Amount: 3
Conc: 1110



Manual Integration Results

RT: 7.32
Response: 53839
Amount: 3
Conc: 889



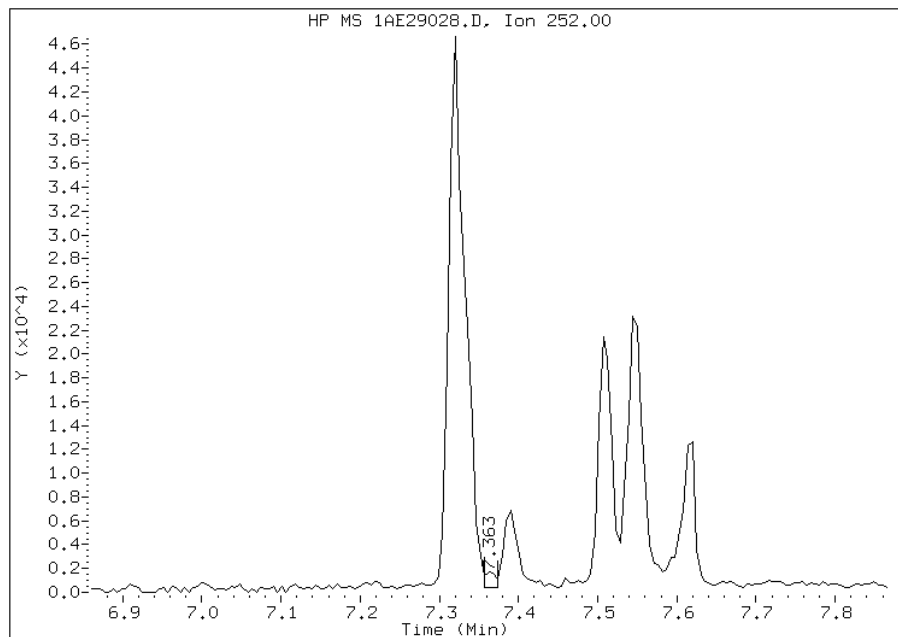
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29028.D
Inj. Date and Time: 29-MAY-2013 21:00
Instrument ID: BSMA5973.i
Client ID: CV0986B-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

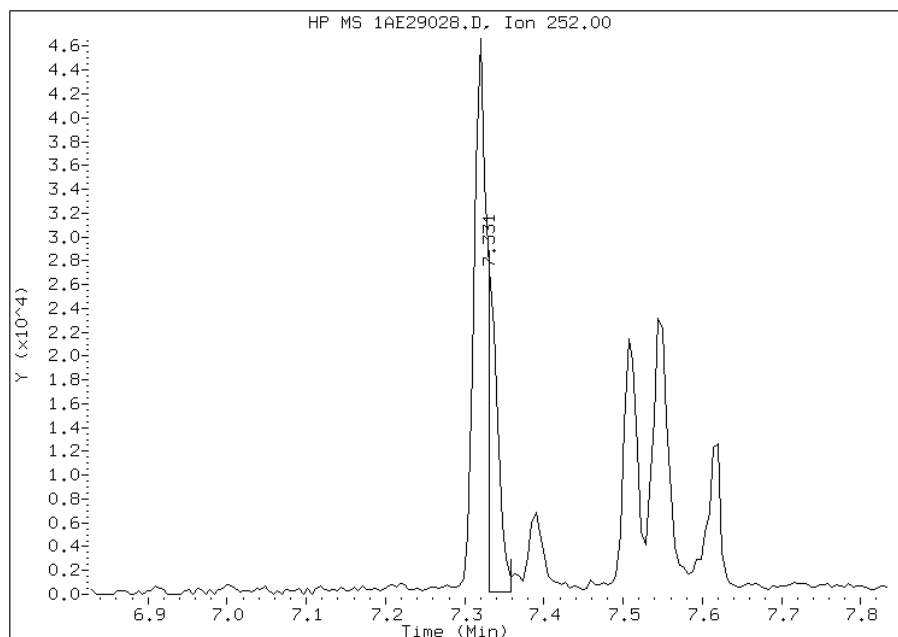
Processing Integration Results

RT: 7.36
Response: 1339
Amount: 0
Conc: 19



Manual Integration Results

RT: 7.33
Response: 23513
Amount: 1
Conc: 326



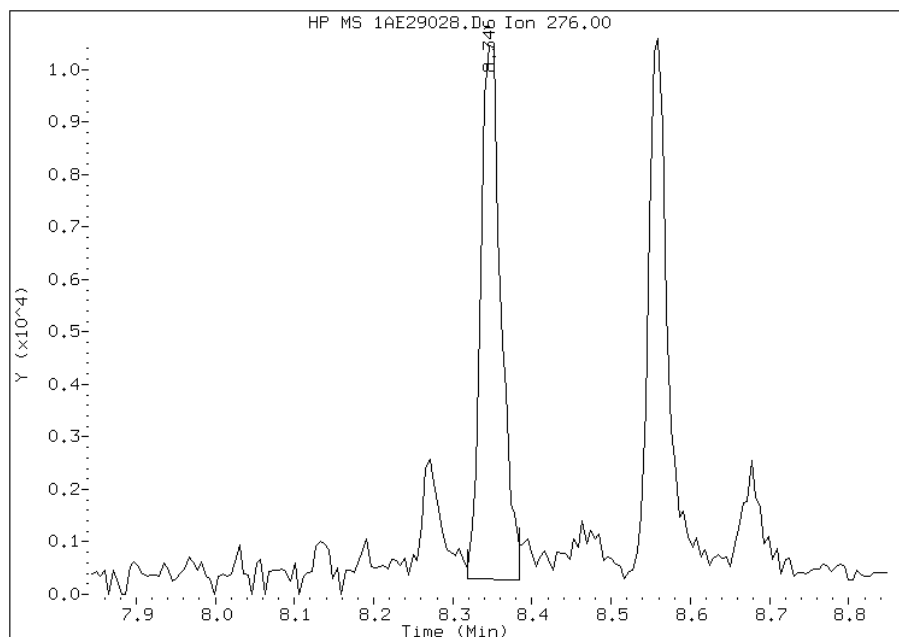
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29028.D
Inj. Date and Time: 29-MAY-2013 21:00
Instrument ID: BSMA5973.i
Client ID: CV0986B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

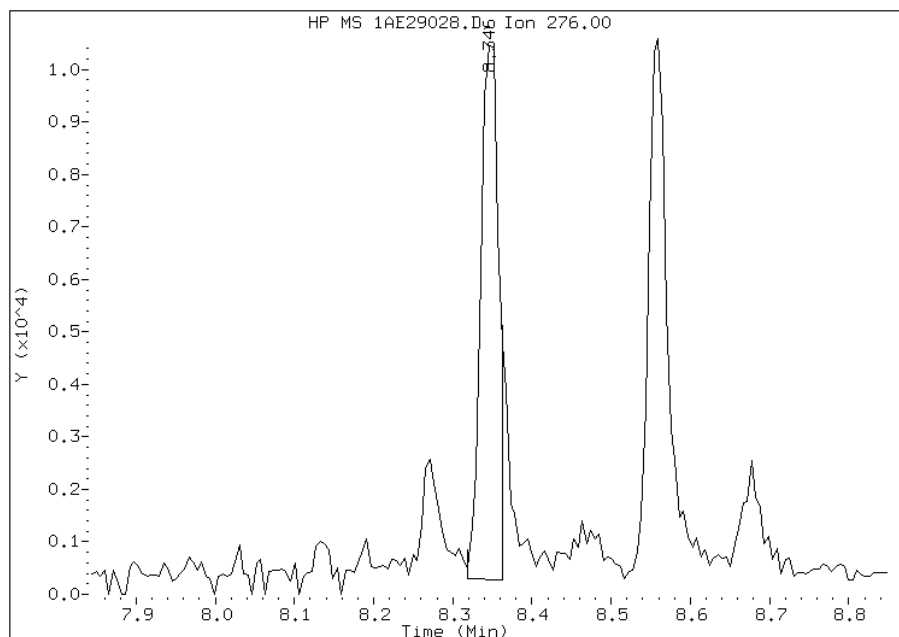
Processing Integration Results

RT: 8.35
Response: 18134
Amount: 1
Conc: 387



Manual Integration Results

RT: 8.35
Response: 15891
Amount: 1
Conc: 345



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0991A-CS Lab Sample ID: 680-90686-4
 Matrix: Solid Lab File ID: 1AE29029.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:45
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.05(g) Date Analyzed: 05/29/2013 21:15
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	54	J	210	26
120-12-7	Anthracene	100		44	22
56-55-3	Benzo[a]anthracene	290		42	21
50-32-8	Benzo[a]pyrene	190		55	27
205-99-2	Benzo[b]fluoranthene	330		65	32
191-24-2	Benzo[g,h,i]perylene	160		110	23
207-08-9	Benzo[k]fluoranthene	100		42	19
218-01-9	Chrysene	320		48	24
53-70-3	Dibenz(a,h)anthracene	110	U	110	22
206-44-0	Fluoranthene	250		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	180		110	38
90-12-0	1-Methylnaphthalene	140	J	210	23
91-57-6	2-Methylnaphthalene	200	J	210	38
91-20-3	Naphthalene	180	J	210	23
85-01-8	Phenanthrene	340		42	21
129-00-0	Pyrene	260		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29029.D
 Lab Smp Id: 680-90686-A-4-A Client Smp ID: CV0991A-CS
 Inj Date : 29-MAY-2013 21:15
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-4-a
 Misc Info : 680-90686-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 26
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	24.601	% 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		2.517	2.512	(1.000)	954445	40.0000	
* 7 Acenaphthene-d10	164		3.543	3.533	(1.000)	605449	40.0000	
* 11 Phenanthrene-d10	188		4.488	4.478	(1.000)	816005	40.0000	
\$ 15 o-Terphenyl	230		4.777	4.772	(1.064)	10937	0.92669	326.6588
* 19 Chrysene-d12	240		6.513	6.492	(1.000)	716553	40.0000	
* 24 Perylene-d12	264		7.608	7.571	(1.000)	673667	40.0000	
2 Naphthalene	128		2.528	2.518	(1.004)	11256	0.52088	183.6095
3 2-Methylnaphthalene	141		2.928	2.924	(1.163)	5696	0.55360	195.1426
4 1-Methylnaphthalene	142		2.987	2.977	(1.187)	6039	0.40183	141.6463
5 1,1'-Biphenyl	154		3.211	3.207	(1.276)	1451	0.08643	30.4677
6 Acenaphthylene	152		3.452	3.447	(0.974)	4028	0.15205	53.5978
9 Dibenzofuran	168		3.660	3.655	(1.033)	3302	0.15233	53.6949
10 Fluorene	166		3.868	3.864	(1.092)	738	0.04490	15.8267(Q)
12 Phenanthrene	178		4.499	4.494	(1.002)	17701	0.96317	339.5172

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
13 Anthracene	178		4.536	4.526	(1.011)	5558	0.28909	101.9043
16 Fluoranthene	202		5.364	5.354	(1.195)	16376	0.71368	251.5718
17 Pyrene	202		5.524	5.515	(0.848)	15749	0.72939	257.1113
18 Benzo(a)anthracene	228		6.507	6.481	(0.999)	17430	0.82304	290.1214(QM)
20 Chrysene	228		6.523	6.508	(1.002)	17618	0.92104	324.6657(QM)
21 Benzo(b)fluoranthene	252		7.319	7.299	(0.962)	14888	0.92639	326.5530(M)
22 Benzo(k)fluoranthene	252		7.330	7.320	(0.963)	6497	0.28987	102.1800(QMH)
23 Benzo(a)pyrene	252		7.549	7.523	(0.992)	8722	0.53075	187.0912
25 Indeno(1,2,3-cd)pyrene	276		8.345	8.314	(1.097)	6222	0.51676	182.1582(M)
27 Benzo(g,h,i)perylene	276		8.559	8.522	(1.125)	6605	0.45693	161.0698(M)

QC Flag Legend

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

Data File: 1AE29029.D

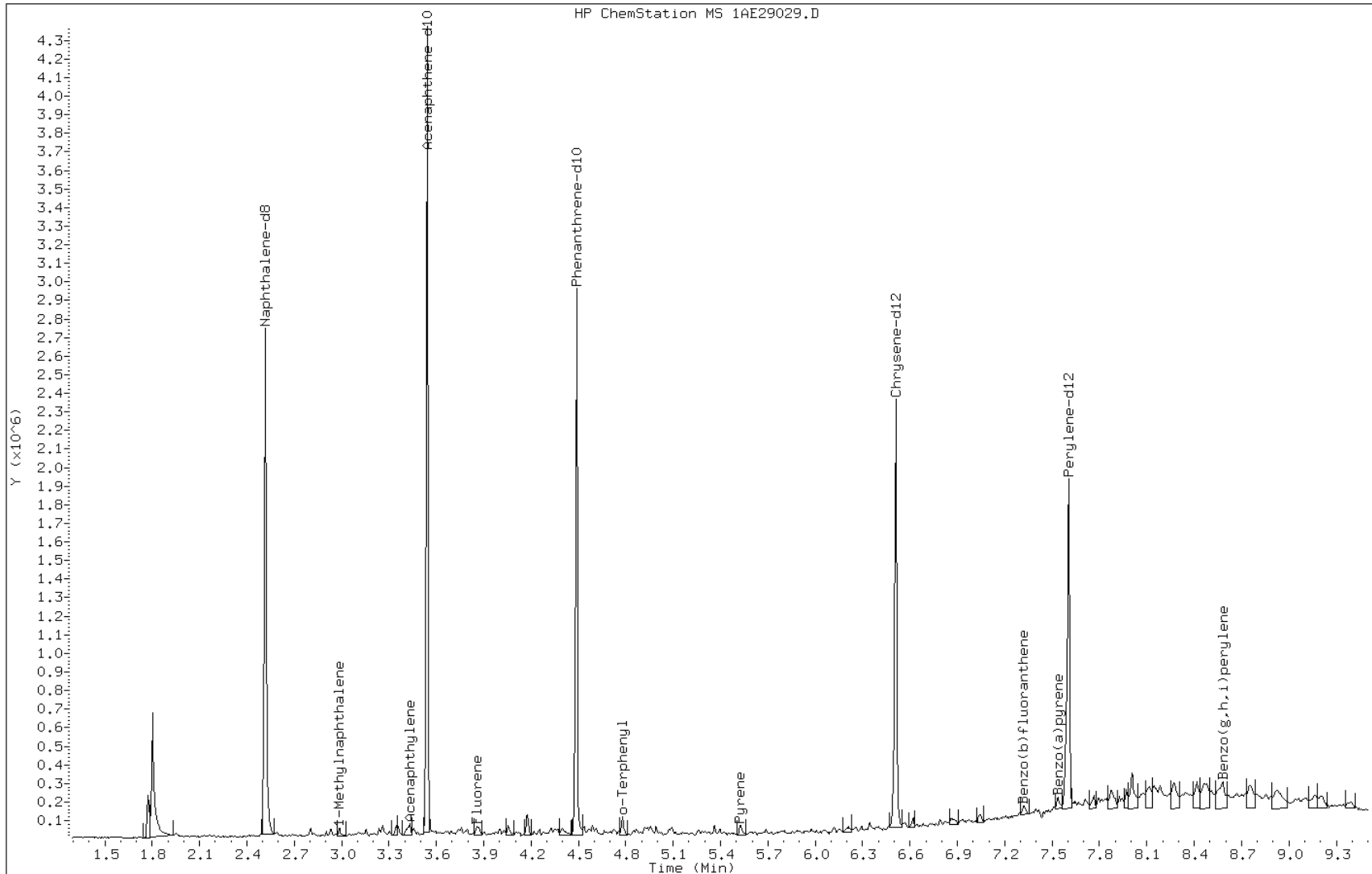
Date: 29-MAY-2013 21:15

Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

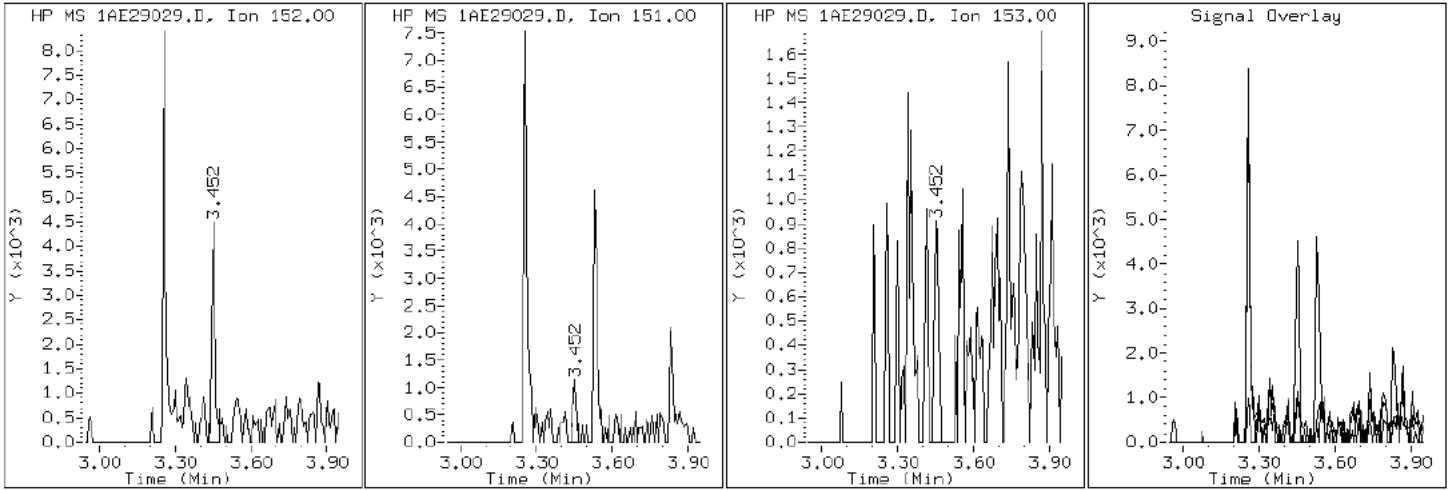
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

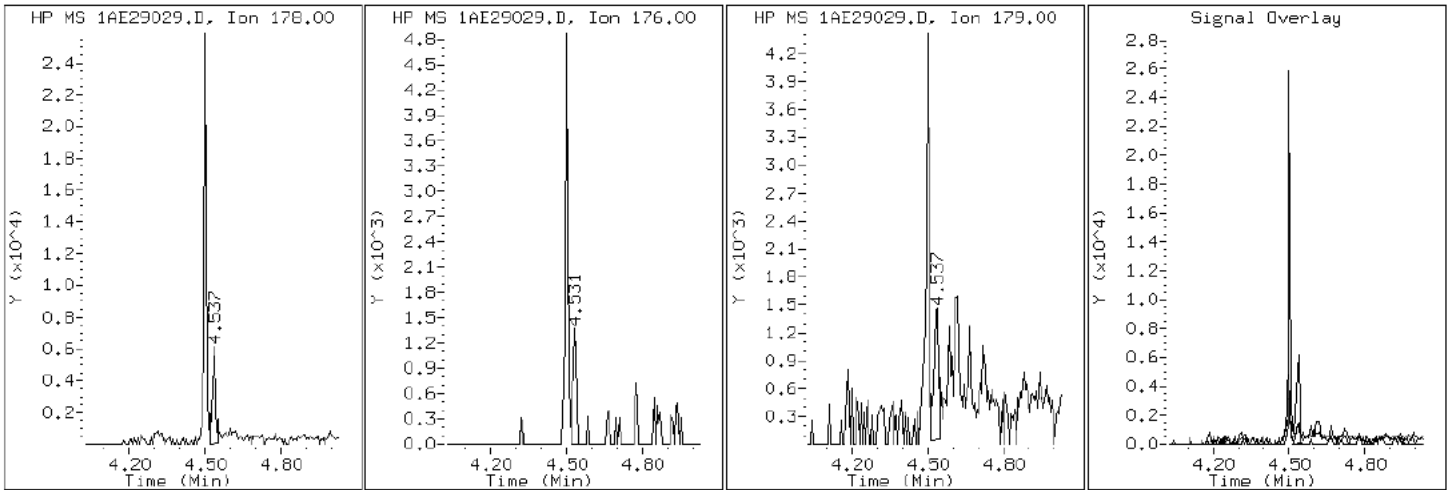
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

13 Anthracene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

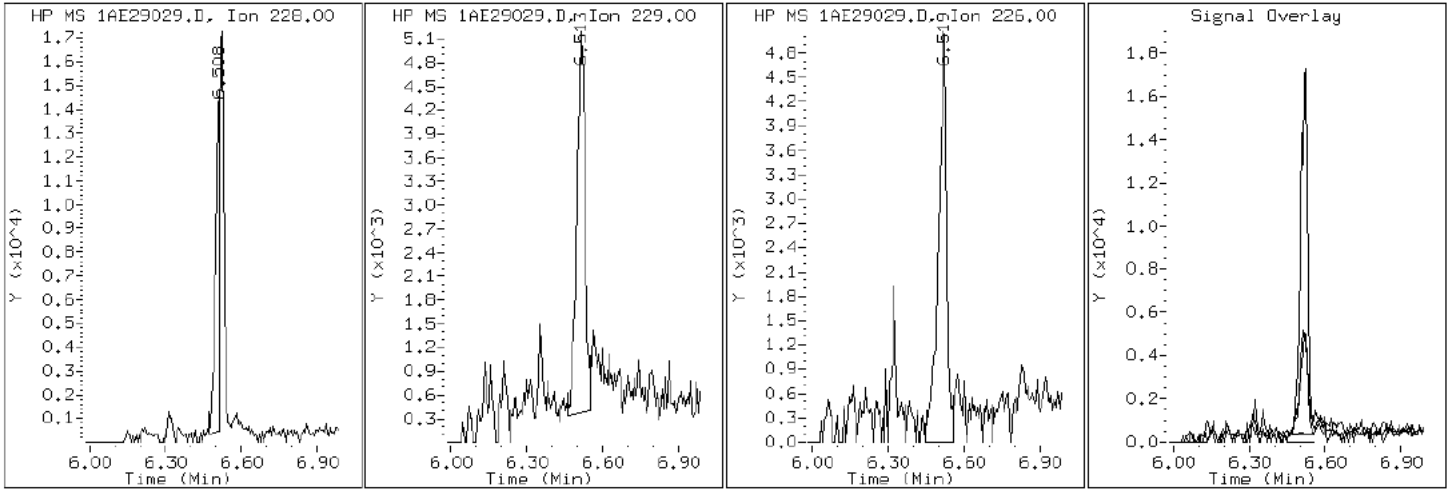
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

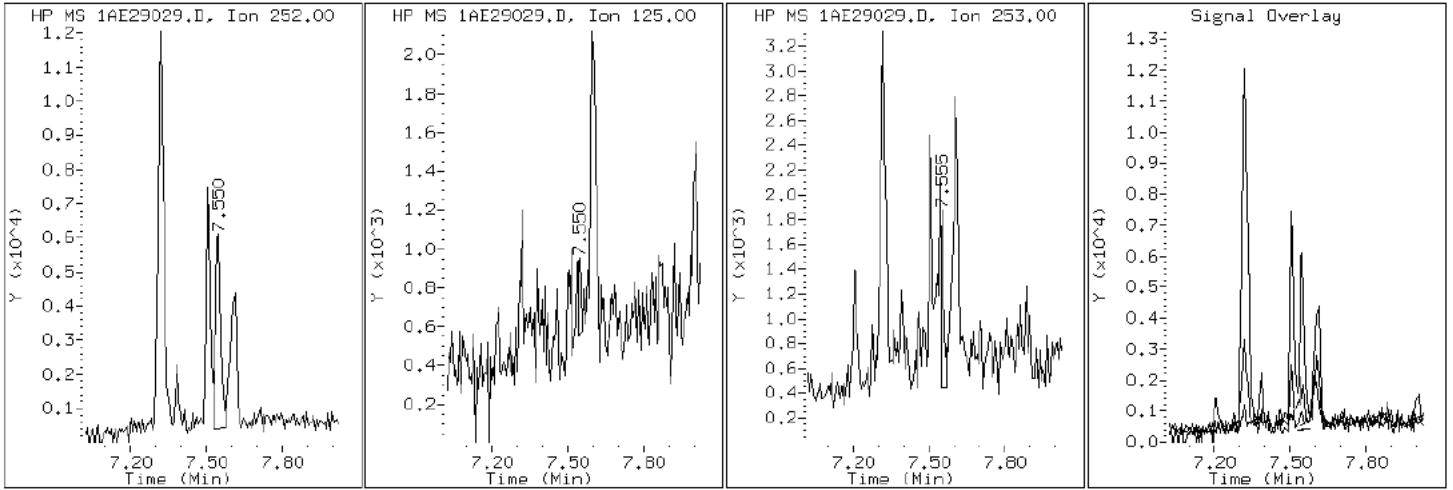
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

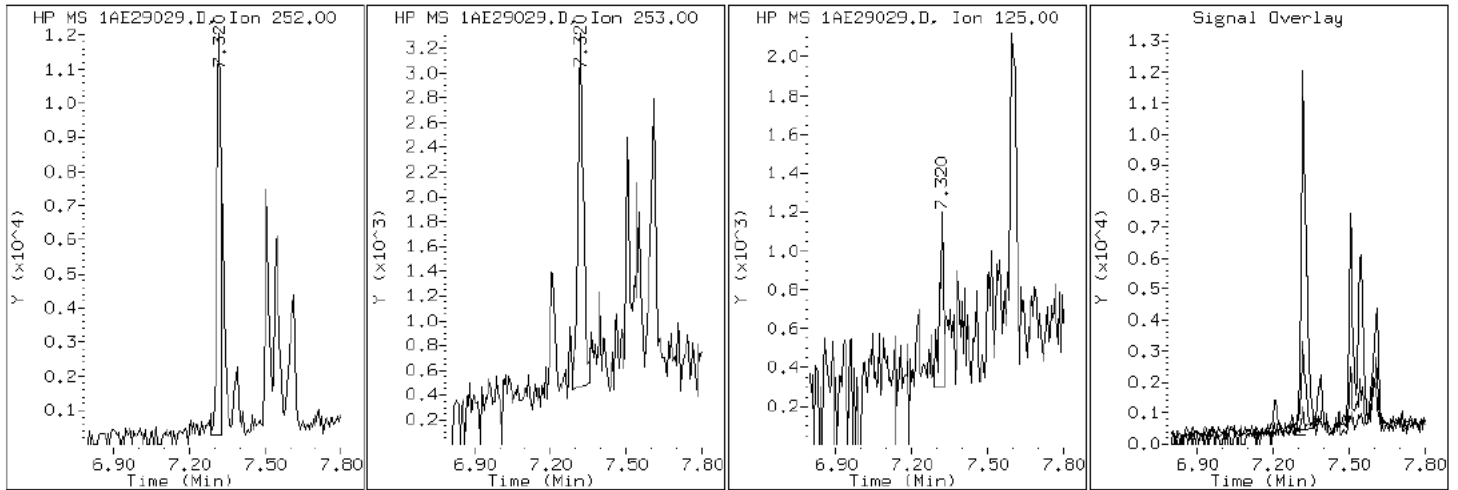
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

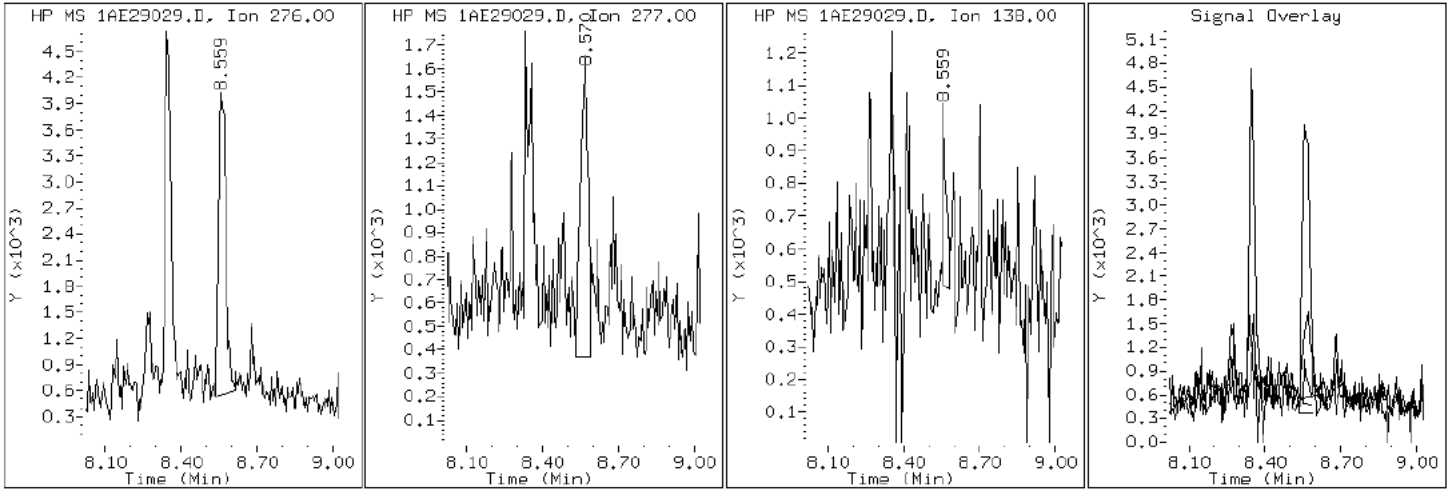
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

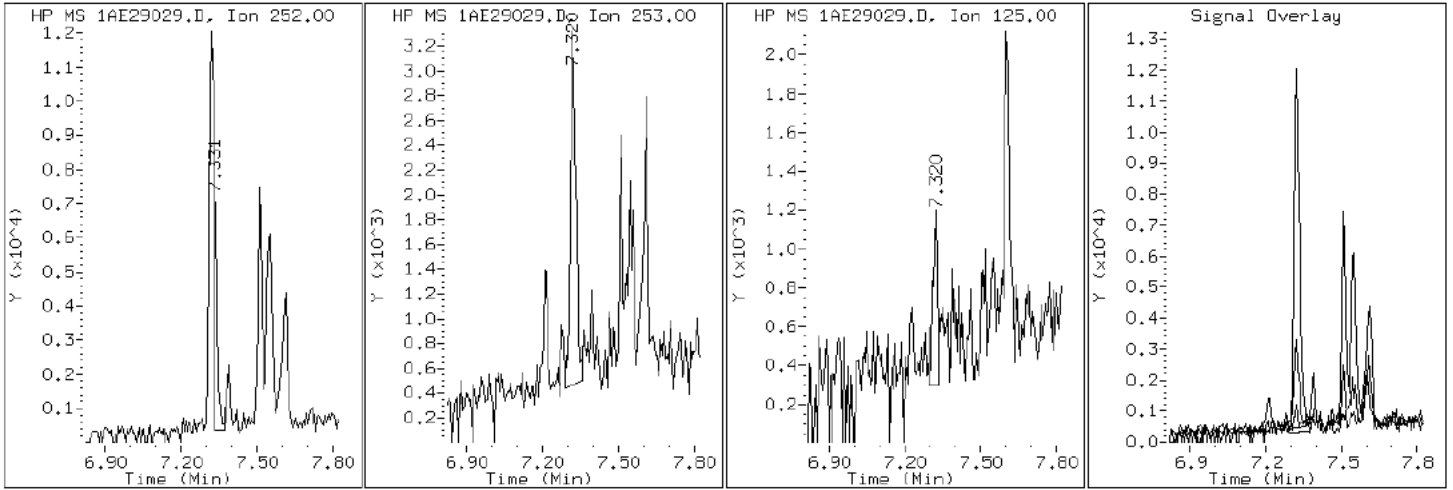
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

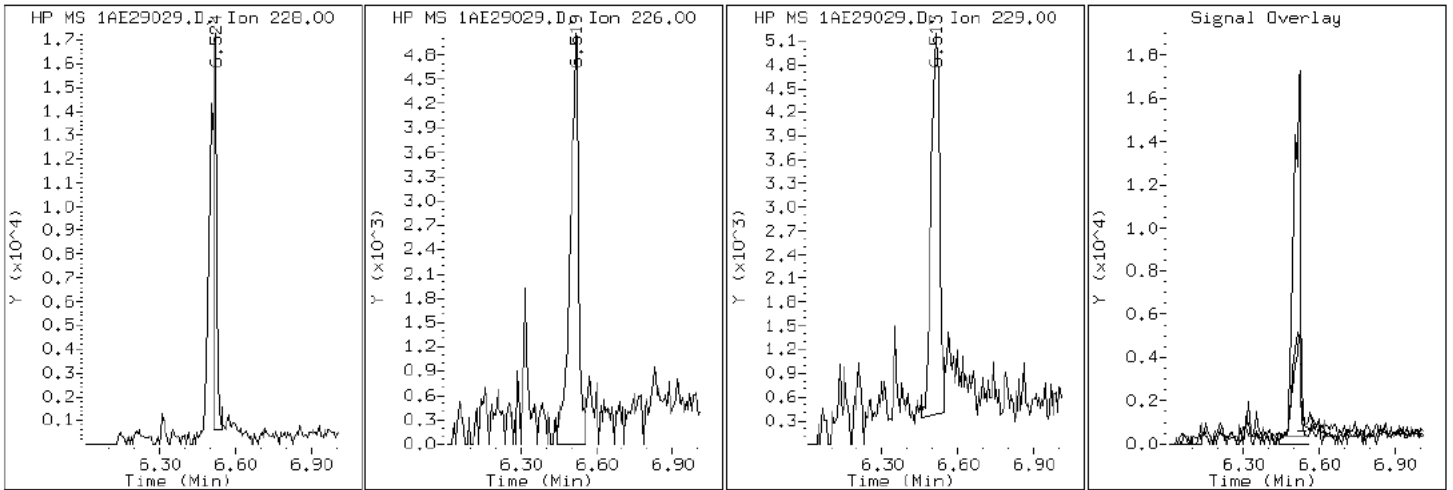
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

20 Chrysene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

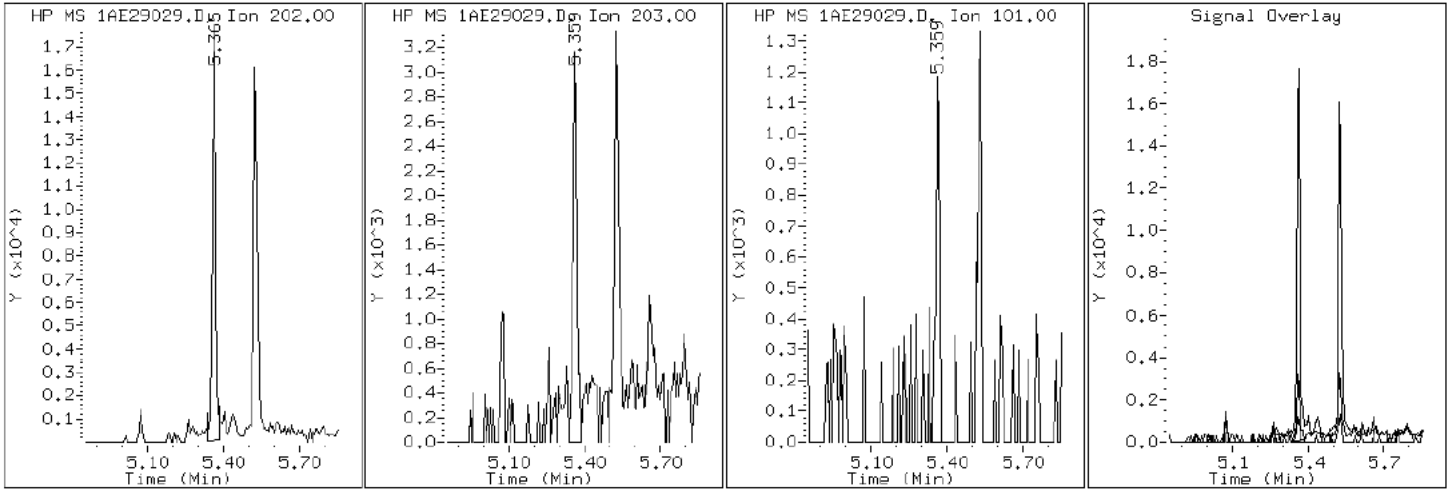
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

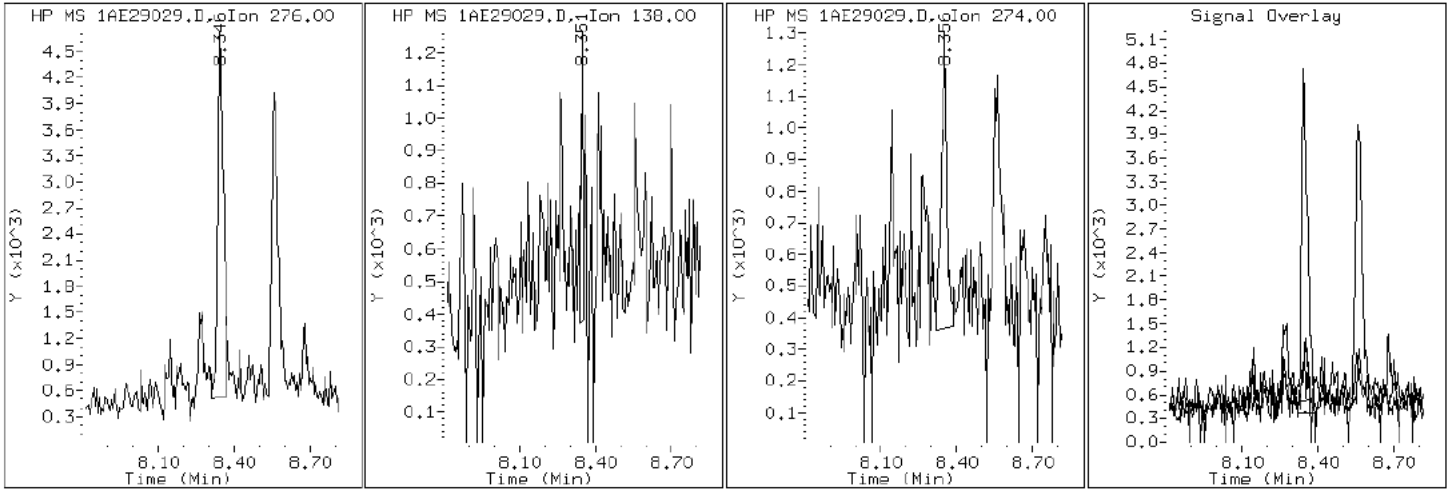
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

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



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

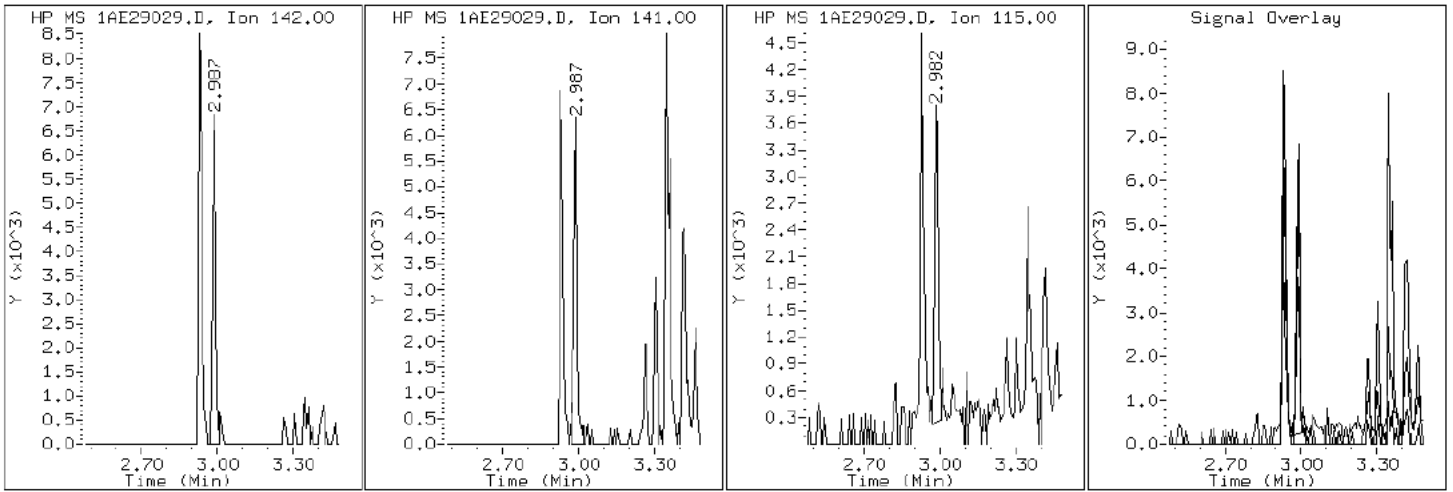
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

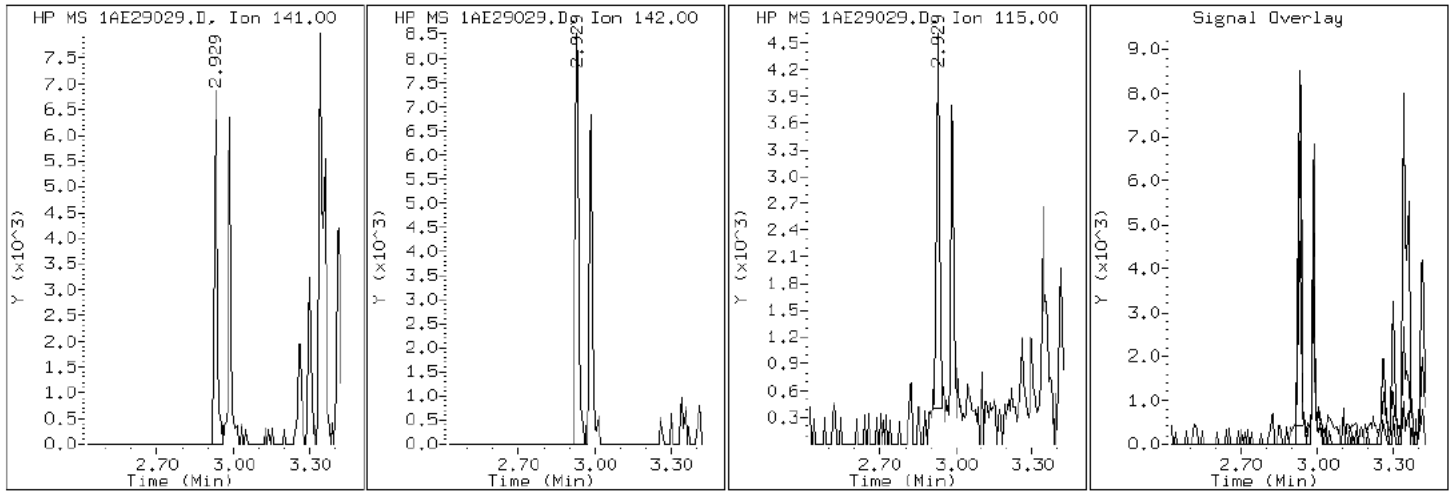
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

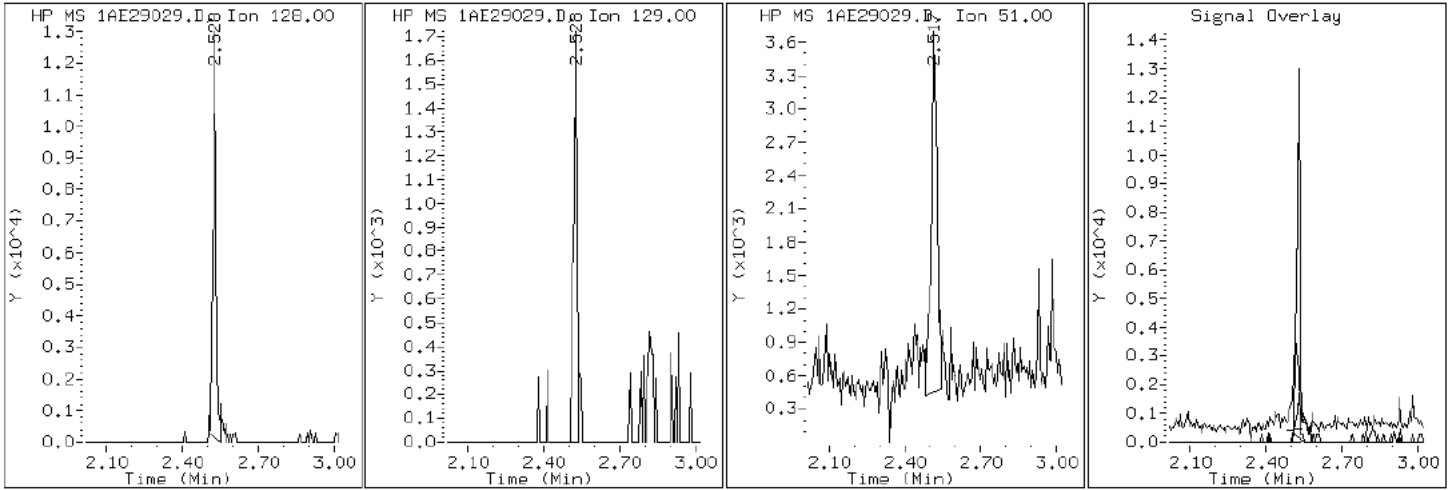
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

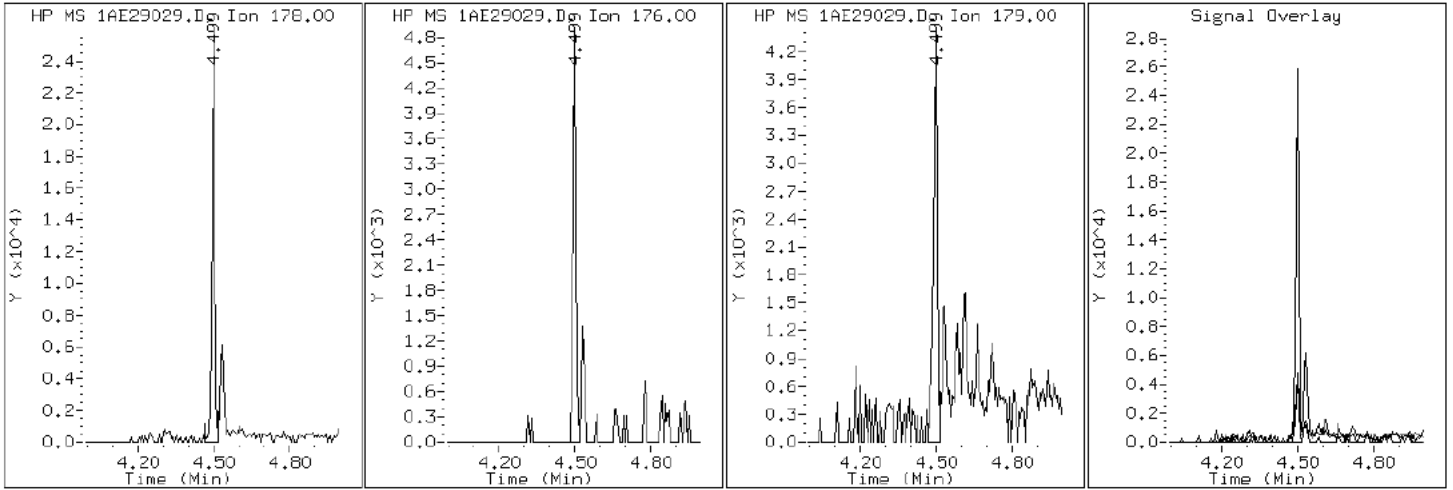
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29029.D

Date: 29-MAY-2013 21:15

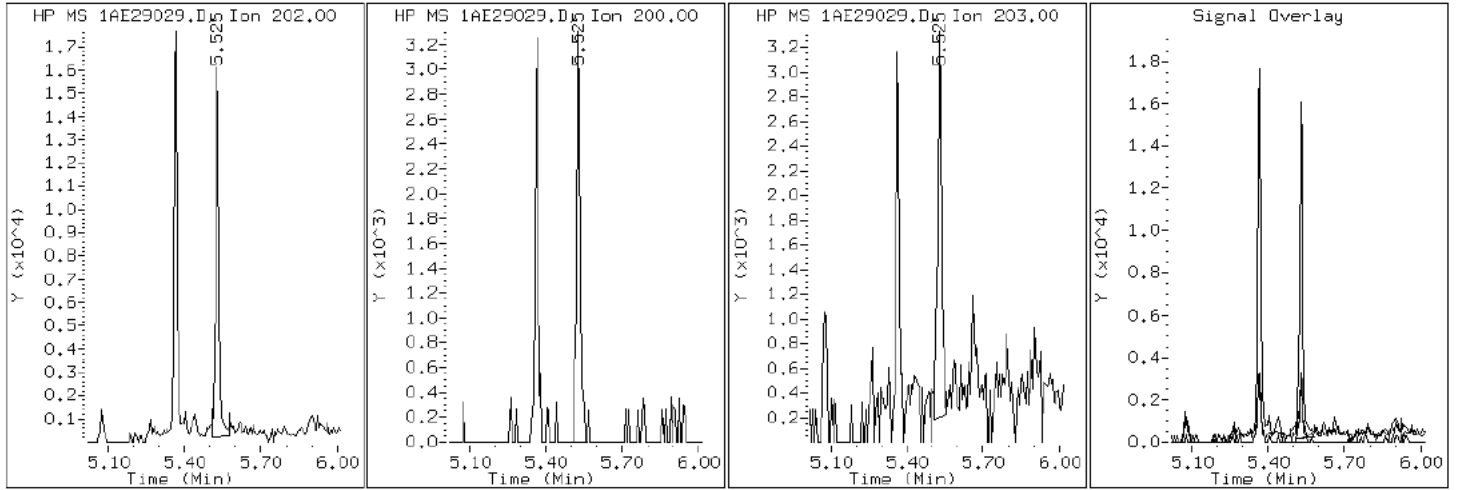
Client ID: CV0991A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-4-a

Operator: SCC

17 Pyrene

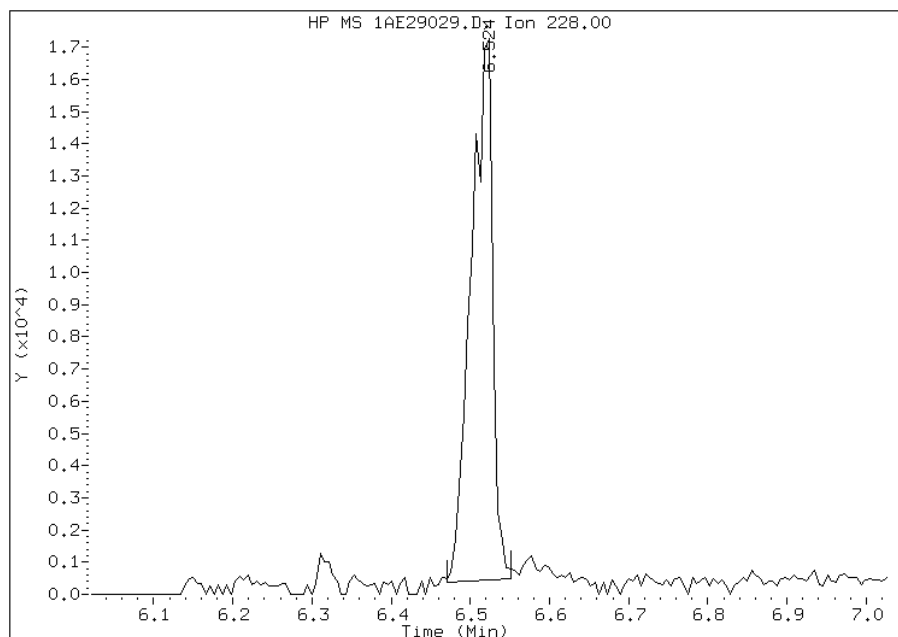


Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 18 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 06/04/2013

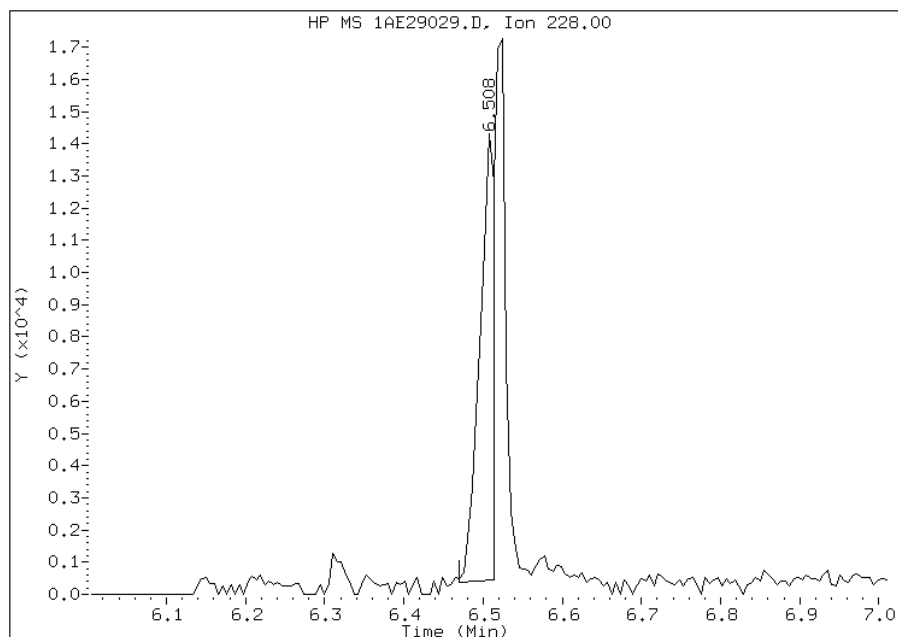
Processing Integration Results

RT: 6.52
Response: 31487
Amount: 2
Conc: 537



Manual Integration Results

RT: 6.51
Response: 17430
Amount: 1
Conc: 290



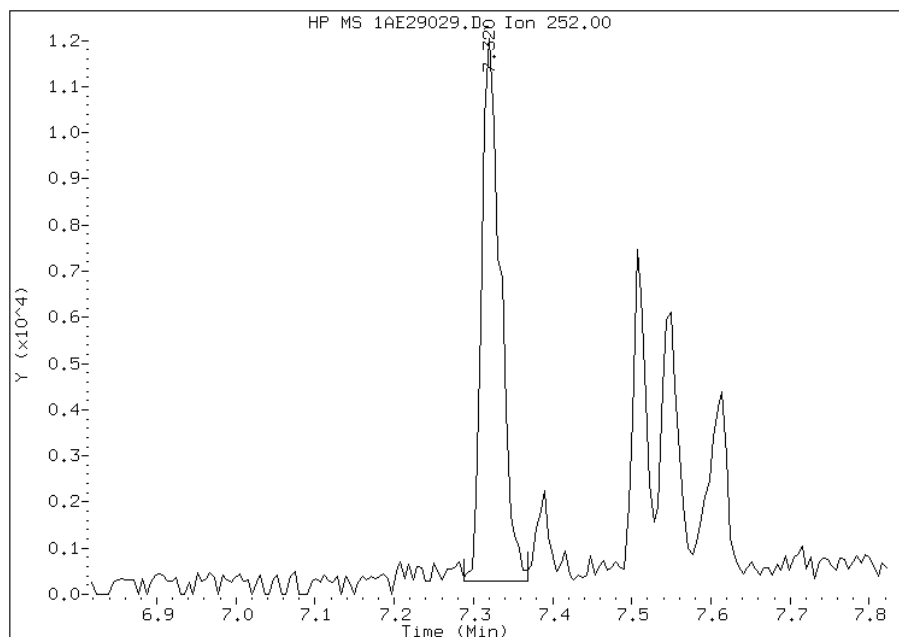
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

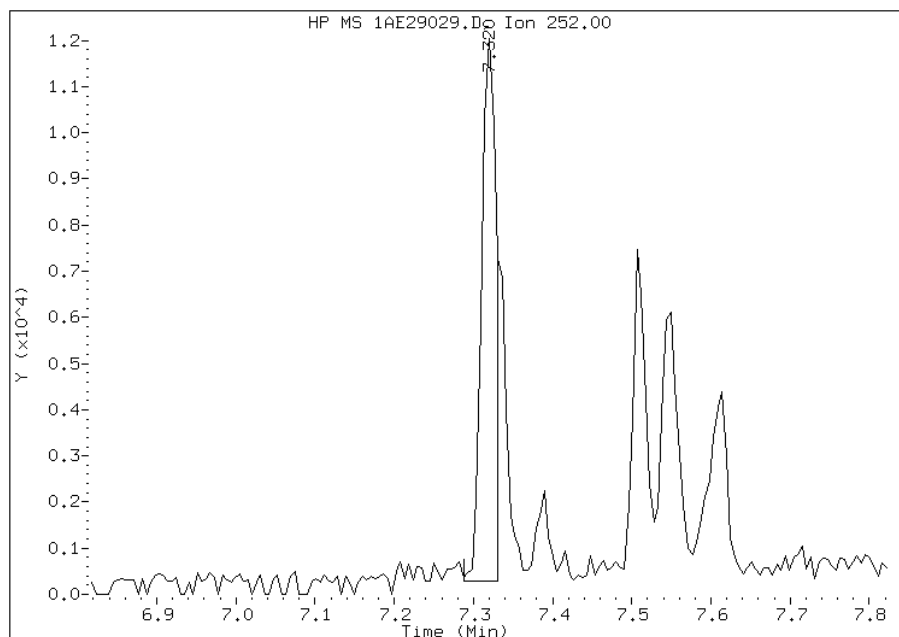
Processing Integration Results

RT: 7.32
Response: 19304
Amount: 1
Conc: 403



Manual Integration Results

RT: 7.32
Response: 14888
Amount: 1
Conc: 327



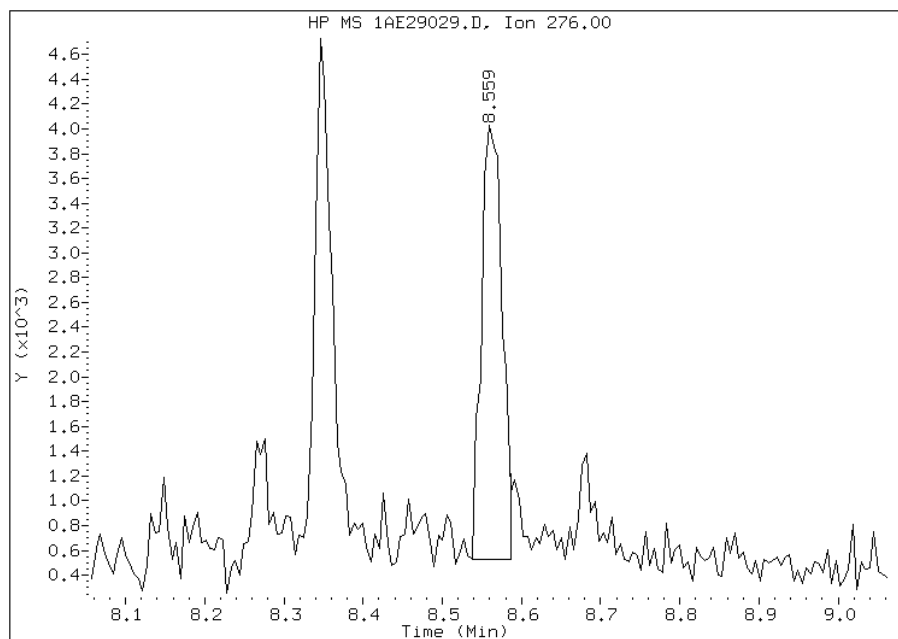
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 06/04/2013

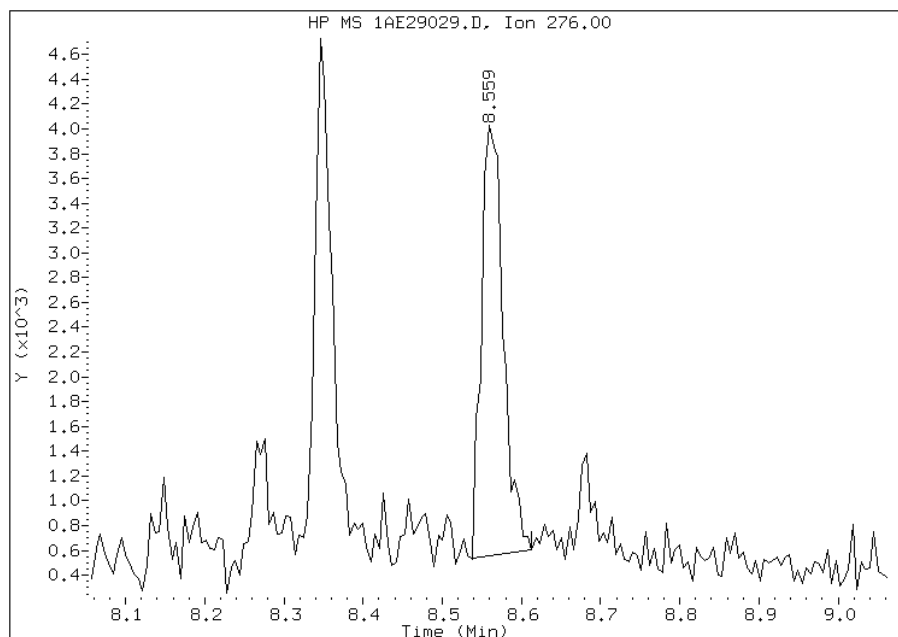
Processing Integration Results

RT: 8.56
Response: 6284
Amount: 0
Conc: 153



Manual Integration Results

RT: 8.56
Response: 6605
Amount: 0
Conc: 161



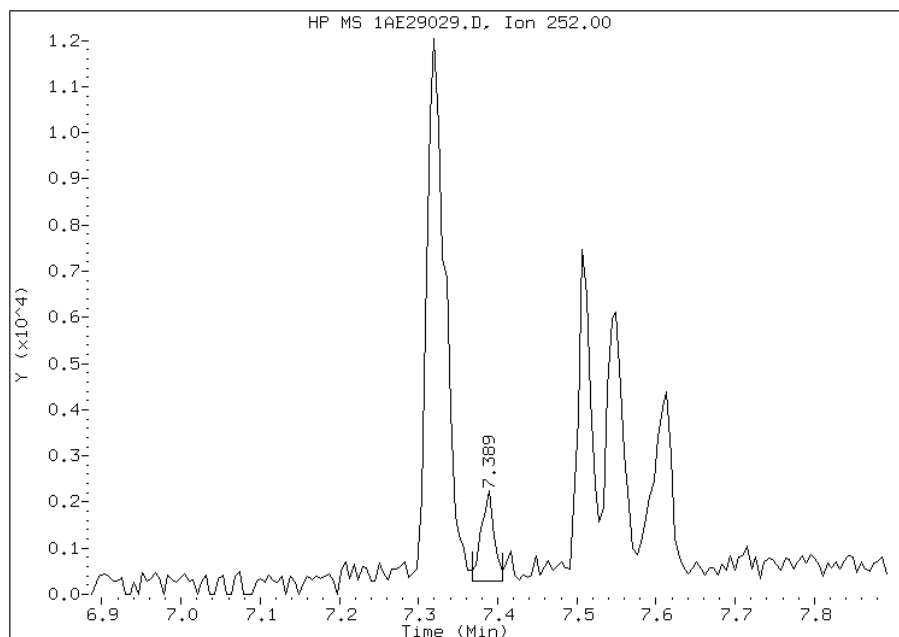
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

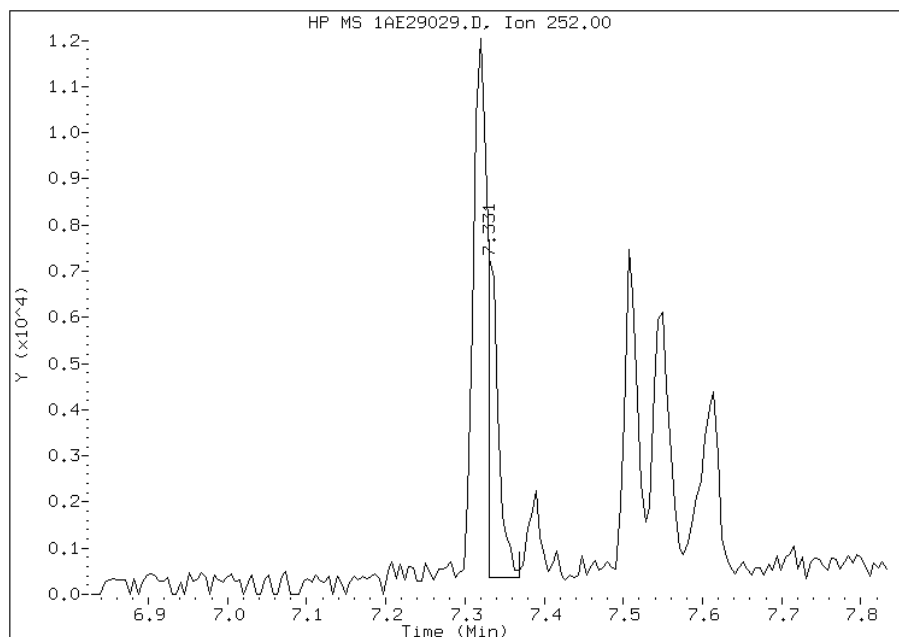
Processing Integration Results

RT: 7.39
Response: 2153
Amount: 0
Conc: 34



Manual Integration Results

RT: 7.33
Response: 6497
Amount: 0
Conc: 102



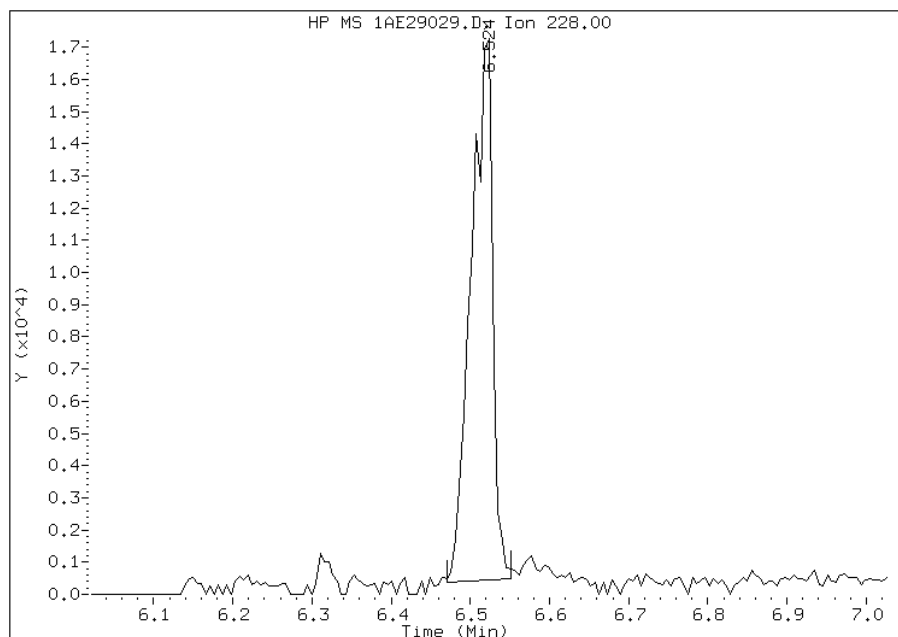
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/04/2013

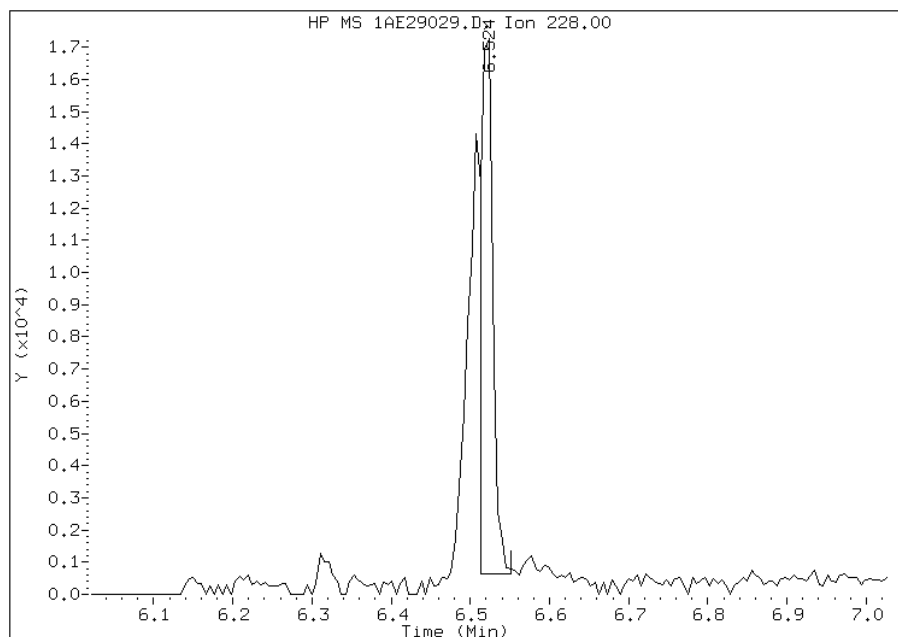
Processing Integration Results

RT: 6.52
Response: 31487
Amount: 2
Conc: 580



Manual Integration Results

RT: 6.52
Response: 17618
Amount: 1
Conc: 325



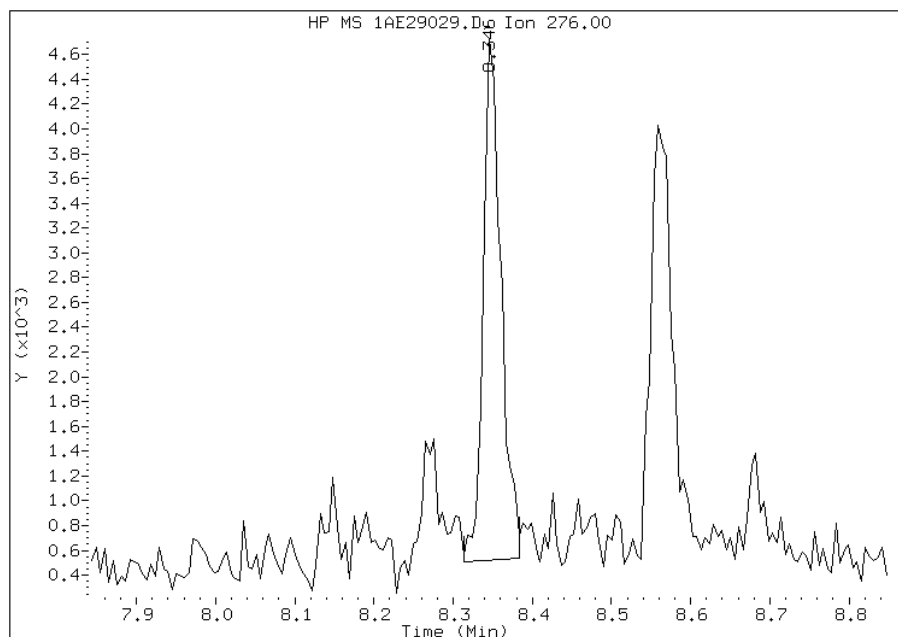
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29029.D
Inj. Date and Time: 29-MAY-2013 21:15
Instrument ID: BSMA5973.i
Client ID: CV0991A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

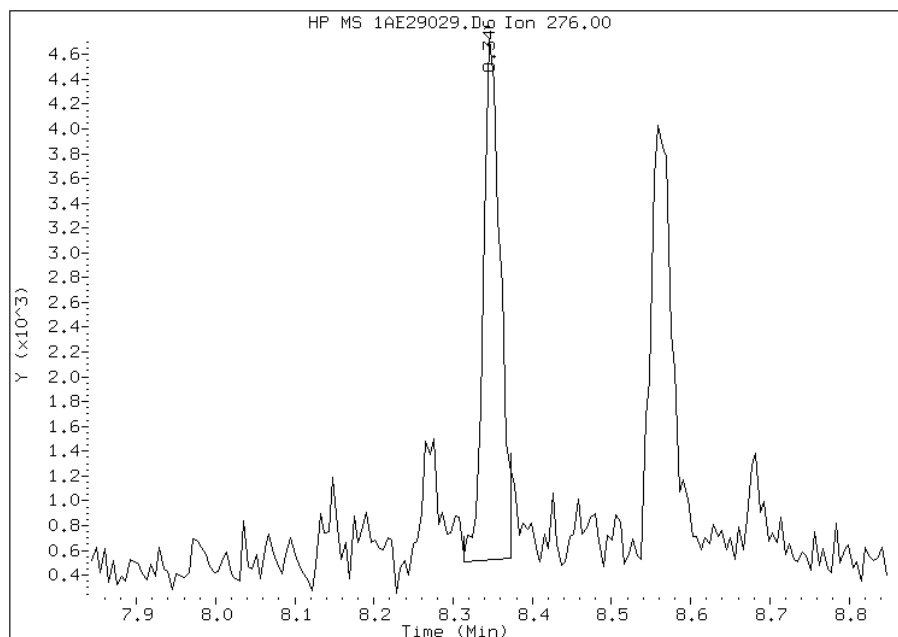
Processing Integration Results

RT: 8.35
Response: 6471
Amount: 1
Conc: 187



Manual Integration Results

RT: 8.35
Response: 6222
Amount: 1
Conc: 182



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0991B-CS Lab Sample ID: 680-90686-5
 Matrix: Solid Lab File ID: 1AE29030.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:55
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.40 (g) Date Analyzed: 05/29/2013 21:30
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 18.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	95
208-96-8	Acenaphthylene	29	J	190	24
120-12-7	Anthracene	64		40	20
56-55-3	Benzo[a]anthracene	38	U	38	19
50-32-8	Benzo[a]pyrene	120		50	25
205-99-2	Benzo[b]fluoranthene	230		58	29
191-24-2	Benzo[g,h,i]perylene	98		95	21
207-08-9	Benzo[k]fluoranthene	77		38	17
218-01-9	Chrysene	360		43	21
53-70-3	Dibenz(a,h)anthracene	95	U	95	20
206-44-0	Fluoranthene	180		95	19
86-73-7	Fluorene	22	J	95	20
193-39-5	Indeno[1,2,3-cd]pyrene	130		95	34
90-12-0	1-Methylnaphthalene	230		190	21
91-57-6	2-Methylnaphthalene	460		190	34
91-20-3	Naphthalene	470		190	21
85-01-8	Phenanthrene	410		38	19
129-00-0	Pyrene	190		95	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29030.D
 Lab Smp Id: 680-90686-A-5-A Client Smp ID: CV0991B-CS
 Inj Date : 29-MAY-2013 21:30
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-5-a
 Misc Info : 680-90686-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 27
 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	15.400	Weight Extracted
M	18.359	% 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		2.516	2.512	(1.000)	919798	40.0000		
* 7 Acenaphthene-d10	164		3.541	3.533	(1.000)	596694	40.0000		
* 11 Phenanthrene-d10	188		4.492	4.478	(1.000)	833186	40.0000		
\$ 15 o-Terphenyl	230		4.781	4.772	(1.064)	13658	1.13338	360.5845	
* 19 Chrysene-d12	240		6.512	6.492	(1.000)	732764	40.0000		
* 24 Perylene-d12	264		7.607	7.571	(1.000)	923766	40.0000	(H)	
2 Naphthalene	128		2.526	2.518	(1.004)	30779	1.47796	470.2156	
3 2-Methylnaphthalene	141		2.932	2.924	(1.166)	14286	1.44076	458.3785	
4 1-Methylnaphthalene	142		2.986	2.977	(1.187)	10294	0.71076	226.1288	
5 1,1'-Biphenyl	154		3.210	3.207	(1.276)	4192	0.25912	82.4376	
6 Acenaphthylene	152		3.456	3.447	(0.976)	2404	0.09208	29.2948	
9 Dibenzofuran	168		3.664	3.655	(1.035)	5340	0.24996	79.5237	
10 Fluorene	166		3.867	3.864	(1.092)	1096	0.06766	21.5251(Q)	
12 Phenanthrene	178		4.503	4.494	(1.002)	24325	1.29631	412.4209	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Anthracene	178	4.535	4.526	(1.010)	3942	0.20081	63.8872
16 Fluoranthene	202	5.363	5.354	(1.194)	13297	0.56754	180.5642
17 Pyrene	202	5.529	5.515	(0.849)	13134	0.59483	189.2441
20 Chrysene	228	6.522	6.508	(1.002)	22054	1.12743	358.6941(M)
21 Benzo(b)fluoranthene	252	7.318	7.299	(0.962)	14492	0.71354	227.0132(MH)
22 Benzo(k)fluoranthene	252	7.329	7.320	(0.963)	7459	0.24269	77.2129(QMH)
23 Benzo(a)pyrene	252	7.548	7.523	(0.992)	8464	0.37561	119.5003(H)
25 Indeno(1,2,3-cd)pyrene	276	8.355	8.314	(1.098)	5815	0.39746	126.4518(MH)
27 Benzo(g,h,i)perylene	276	8.558	8.522	(1.125)	6130	0.30926	98.3916(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: 1AE29030.D

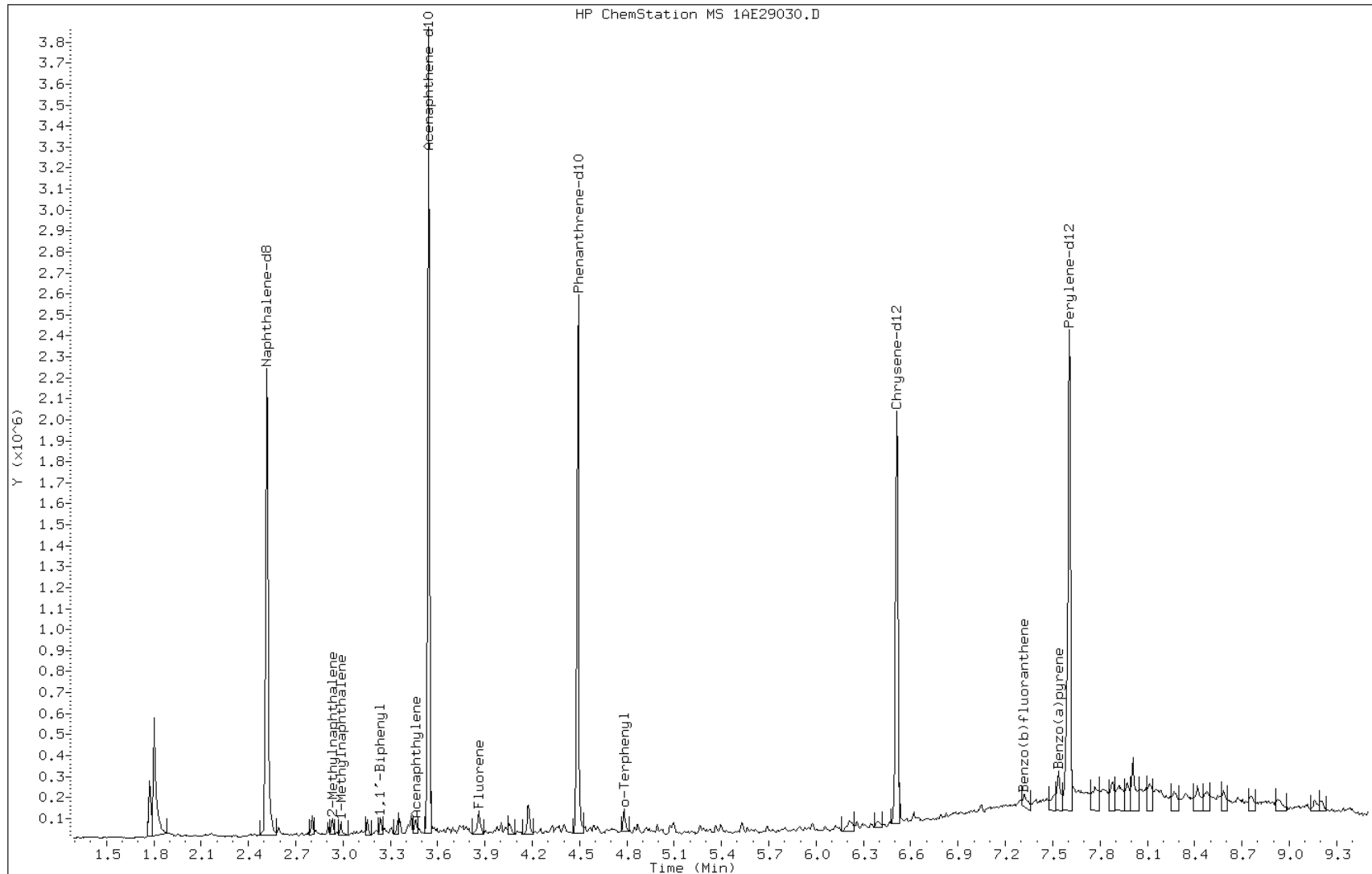
Date: 29-MAY-2013 21:30

Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

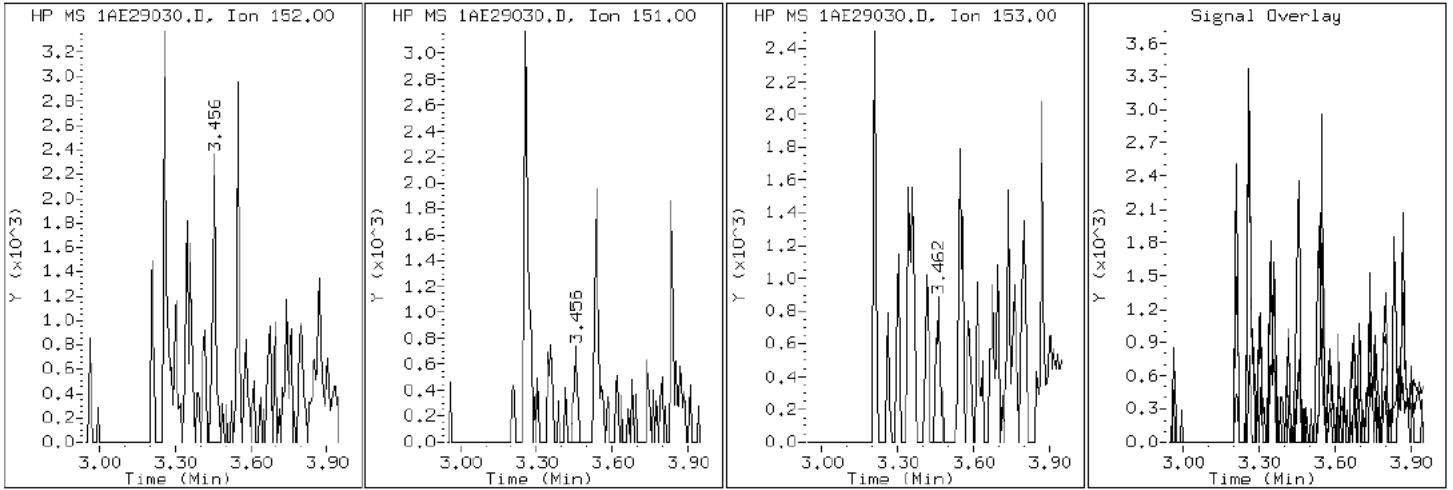
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

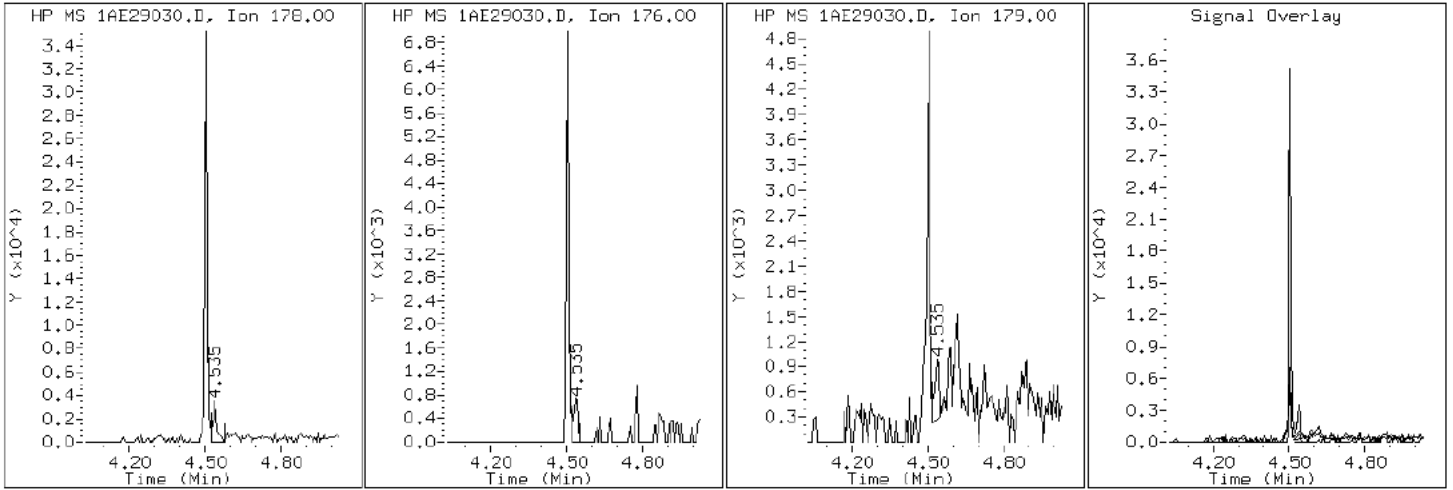
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

13 Anthracene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

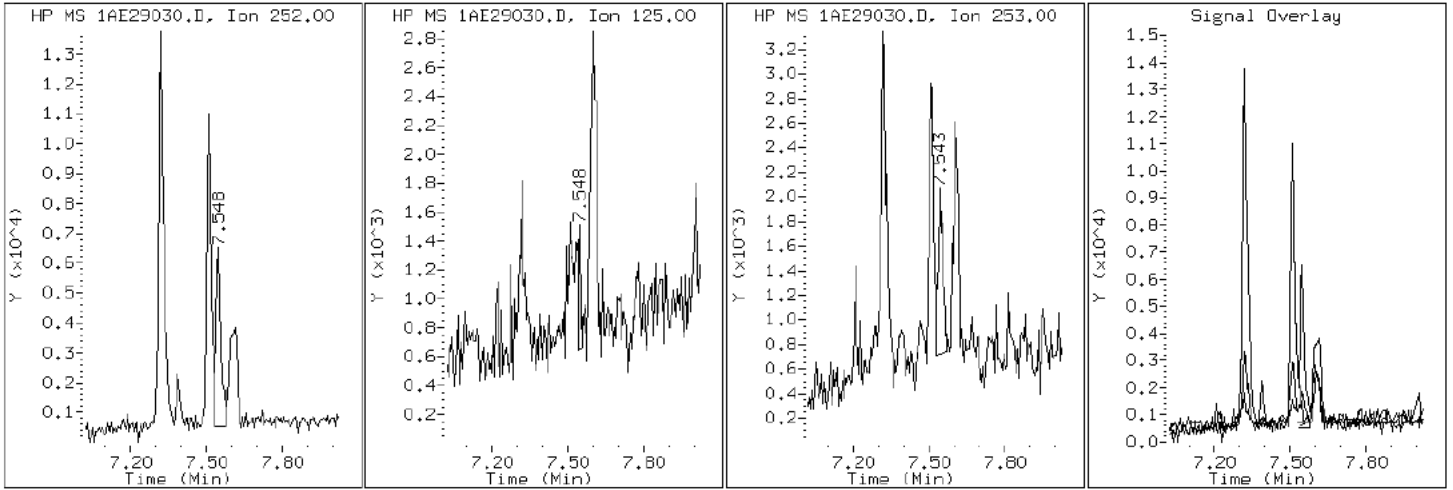
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

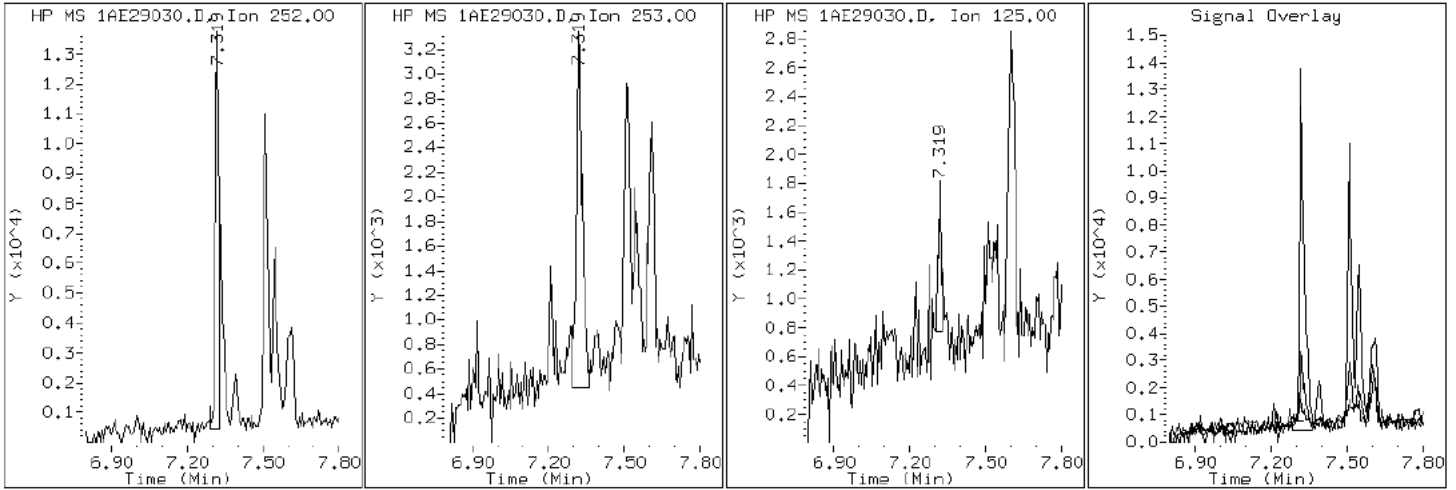
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

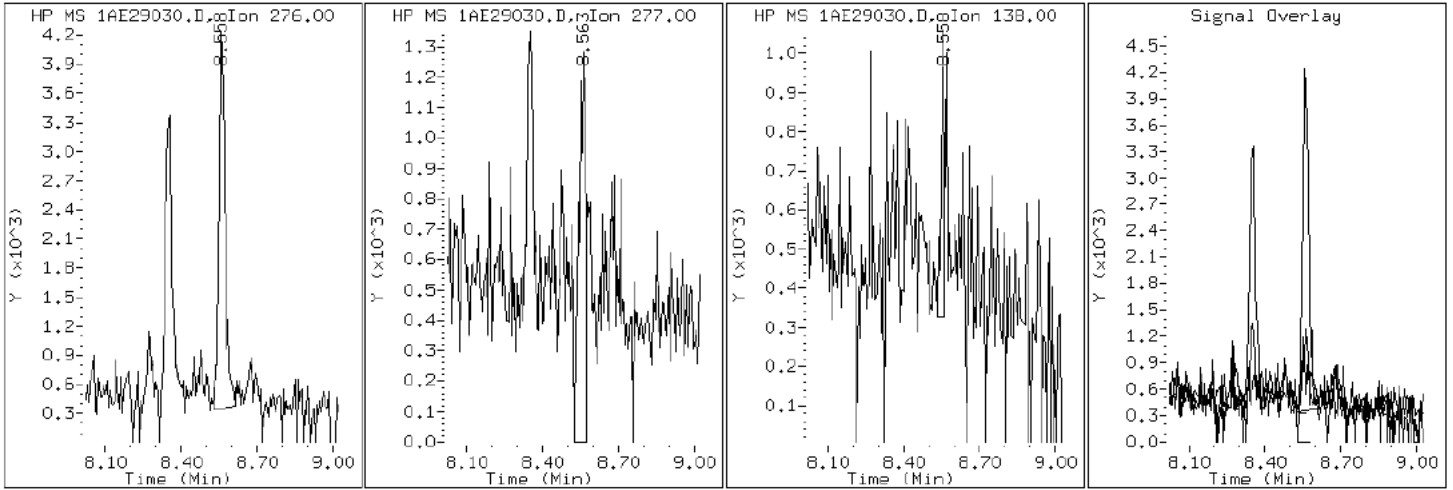
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

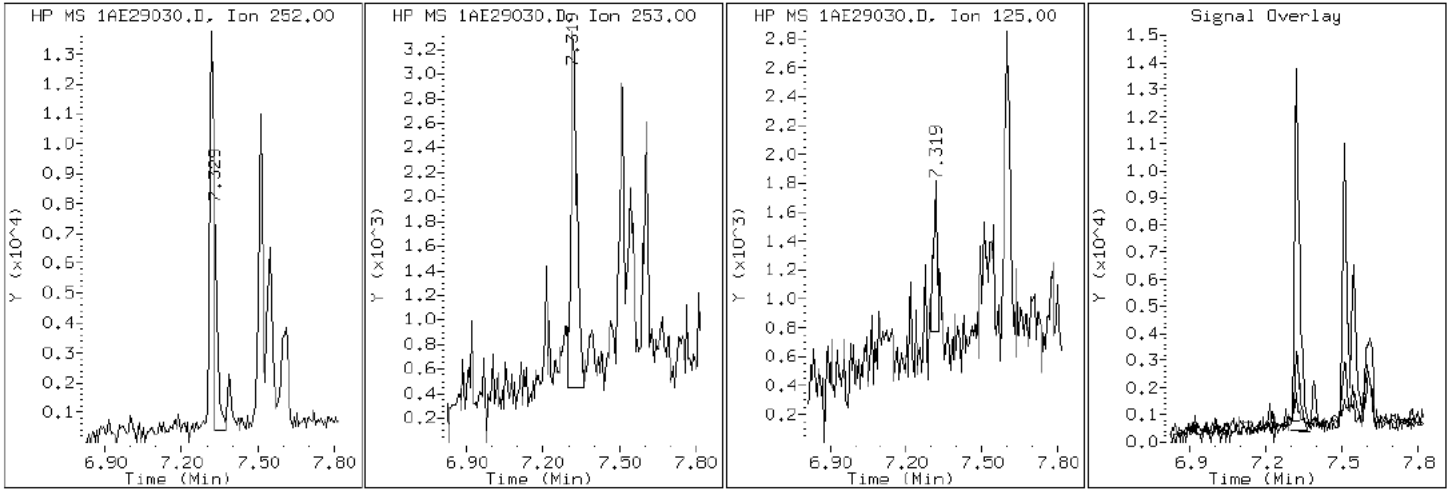
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

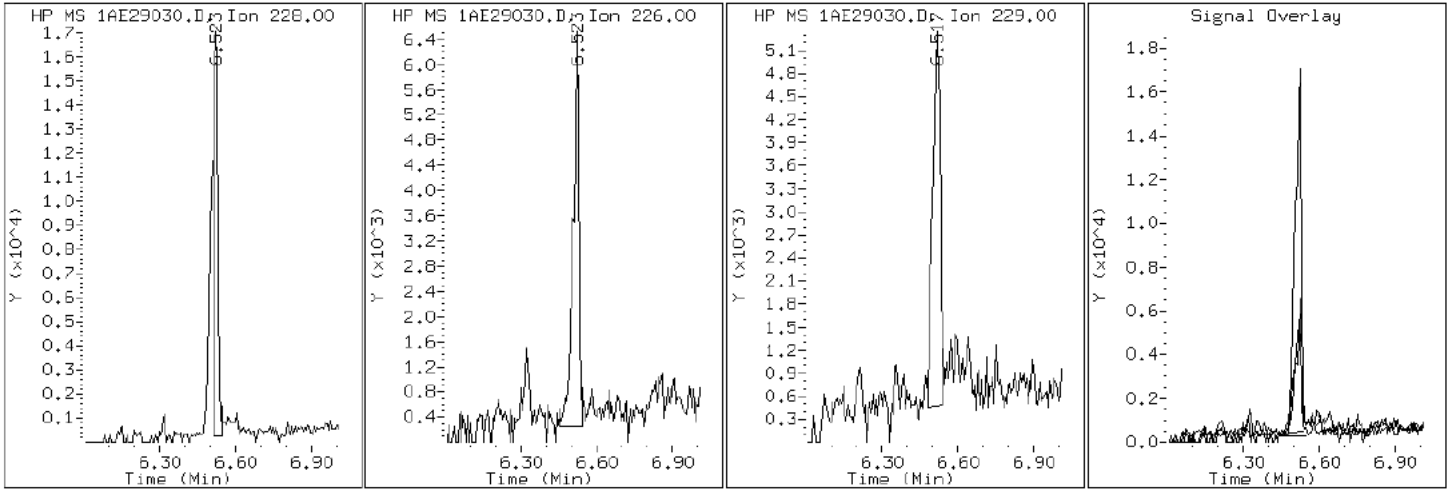
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

20 Chrysene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

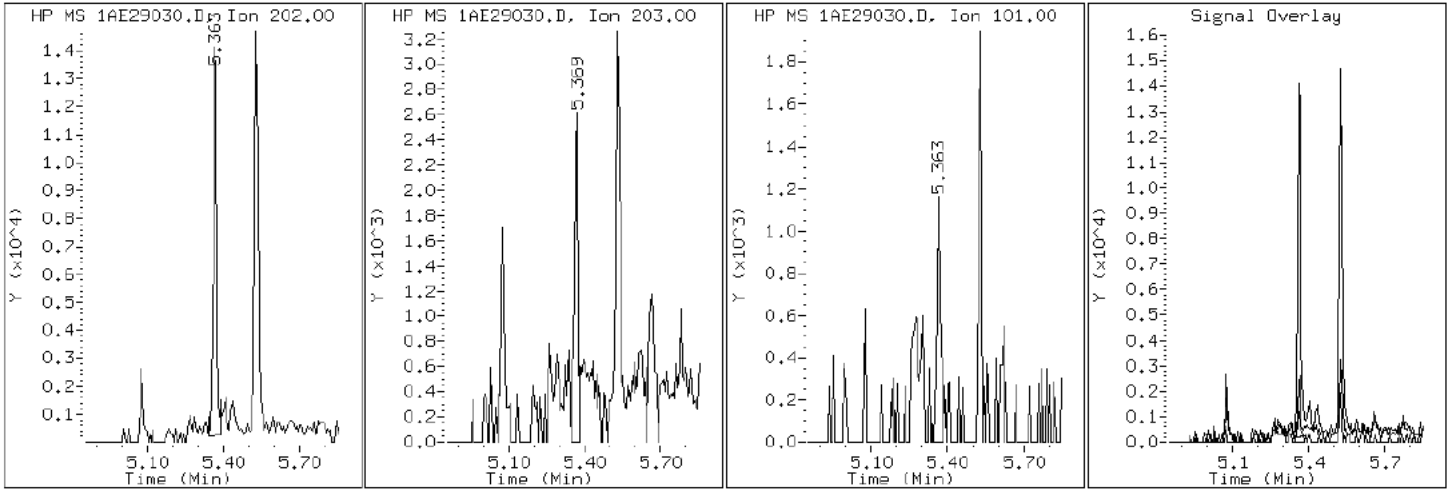
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

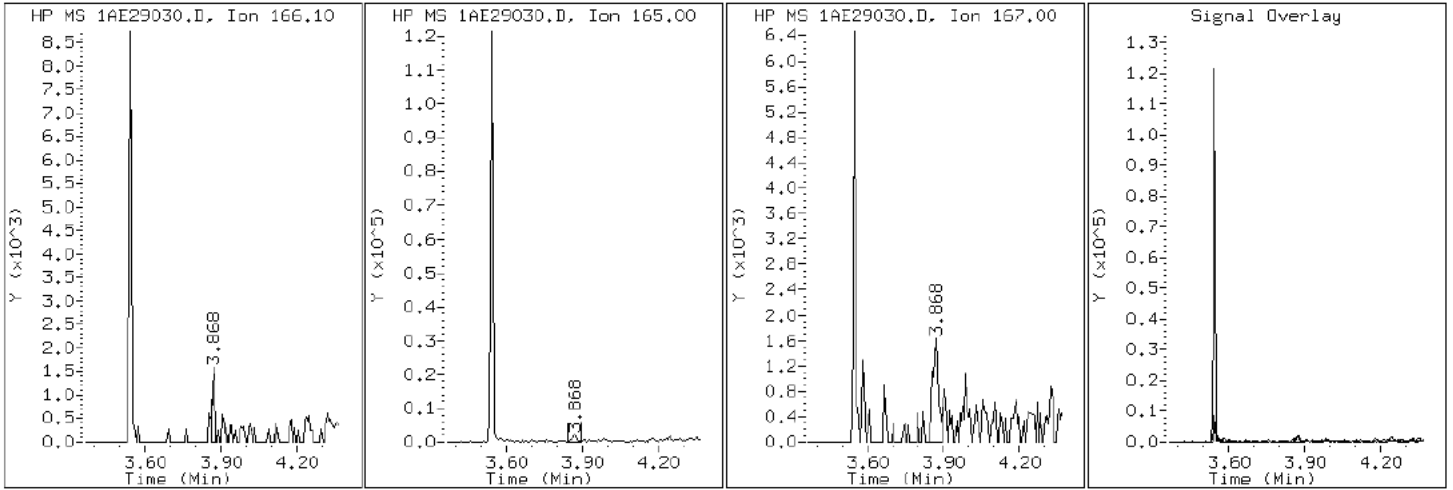
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

10 Fluorene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

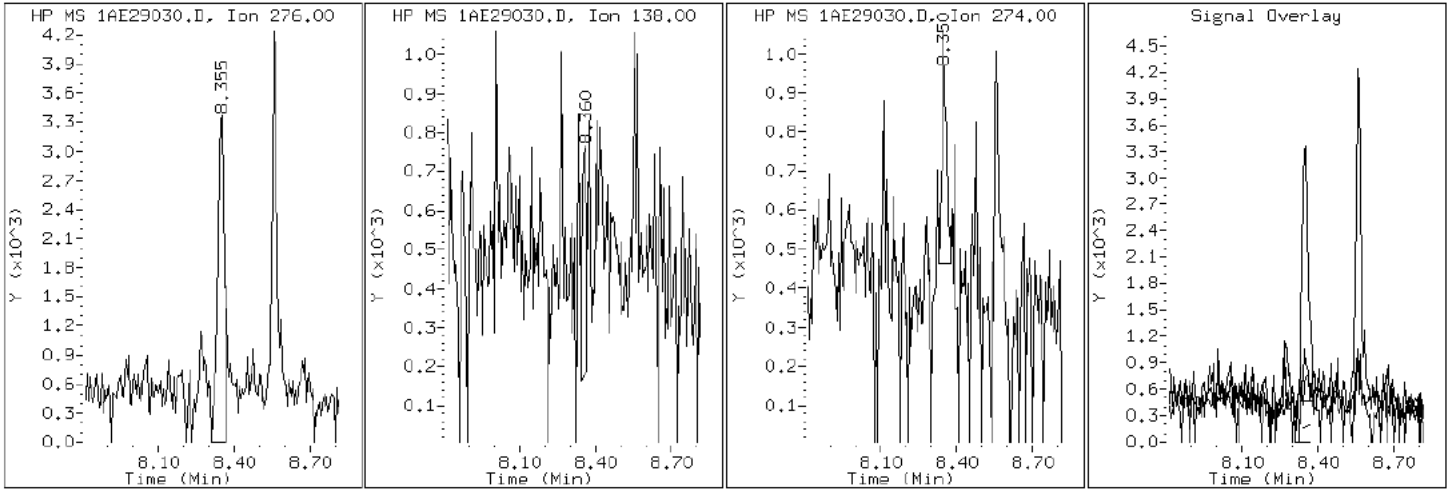
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

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



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

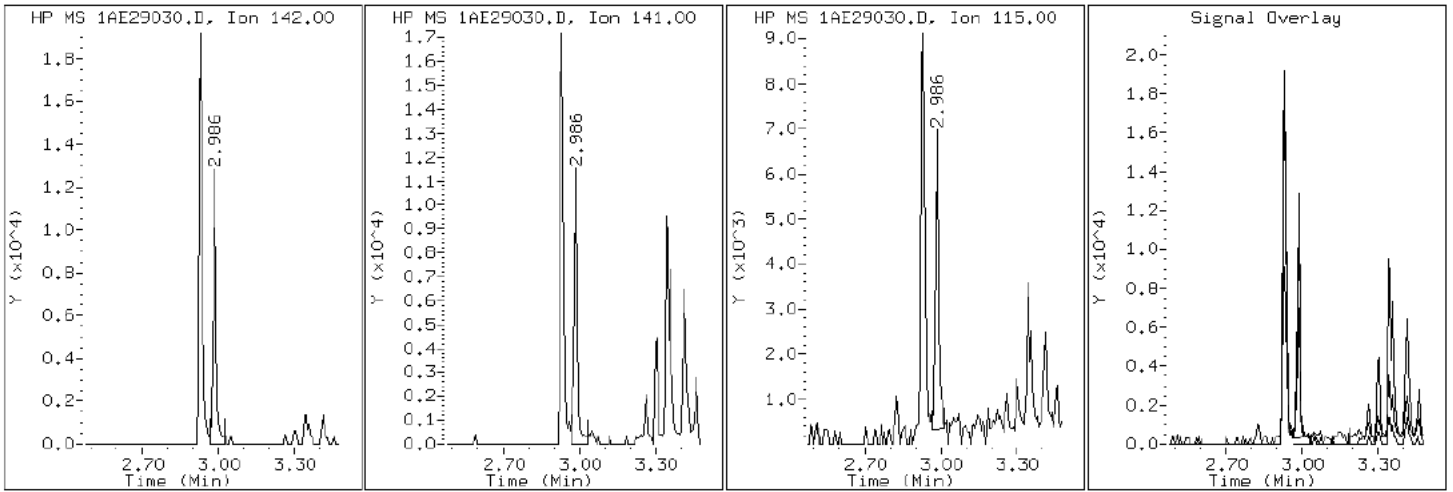
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

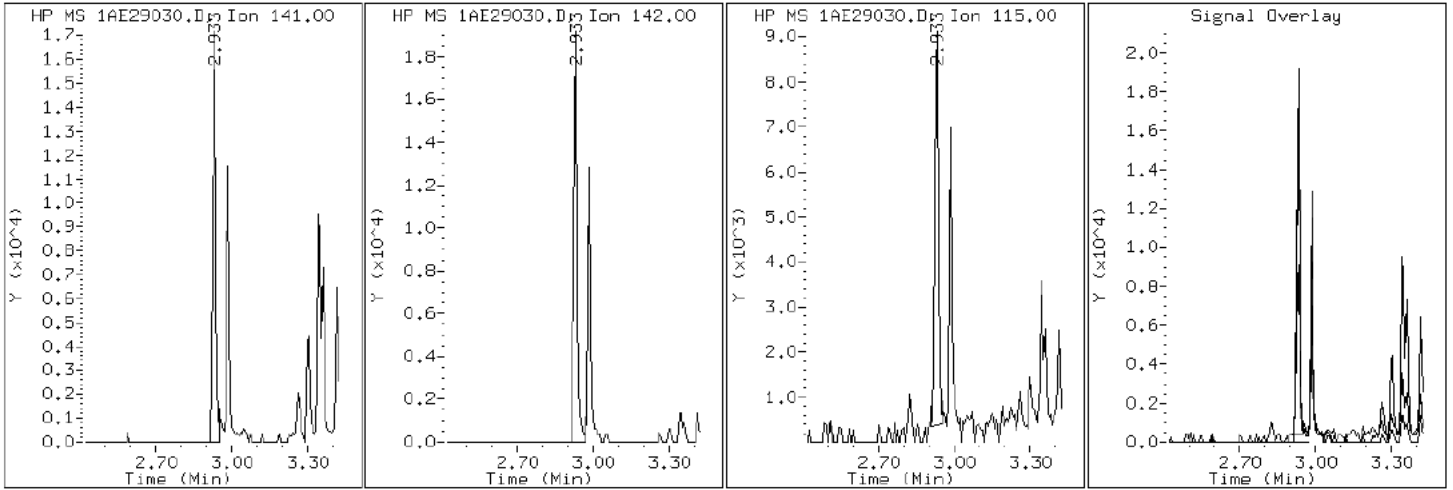
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

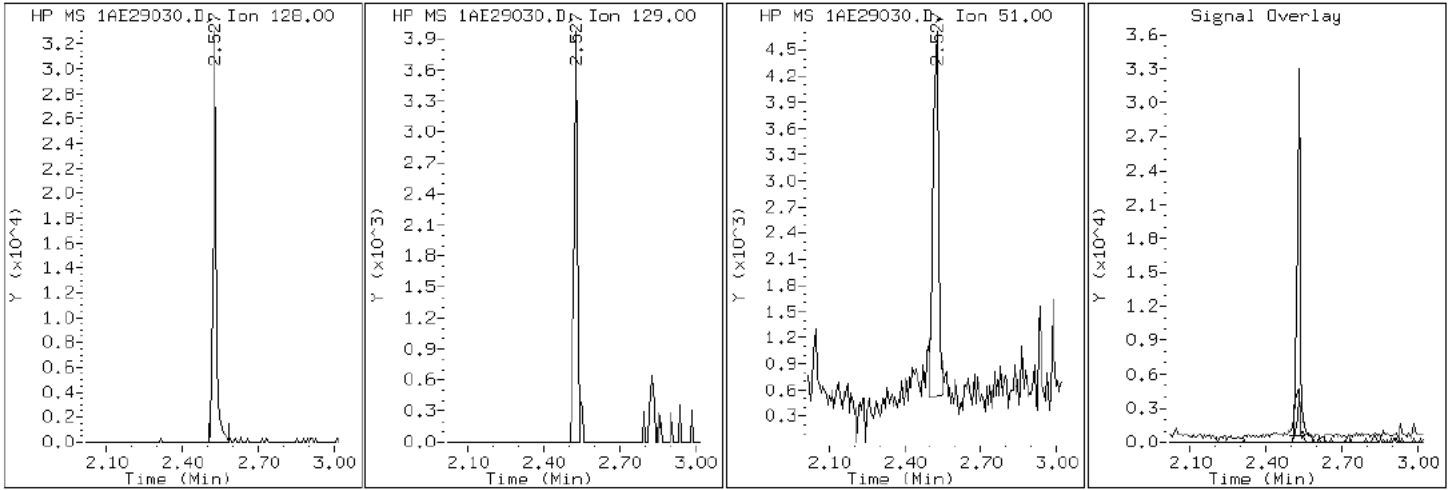
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

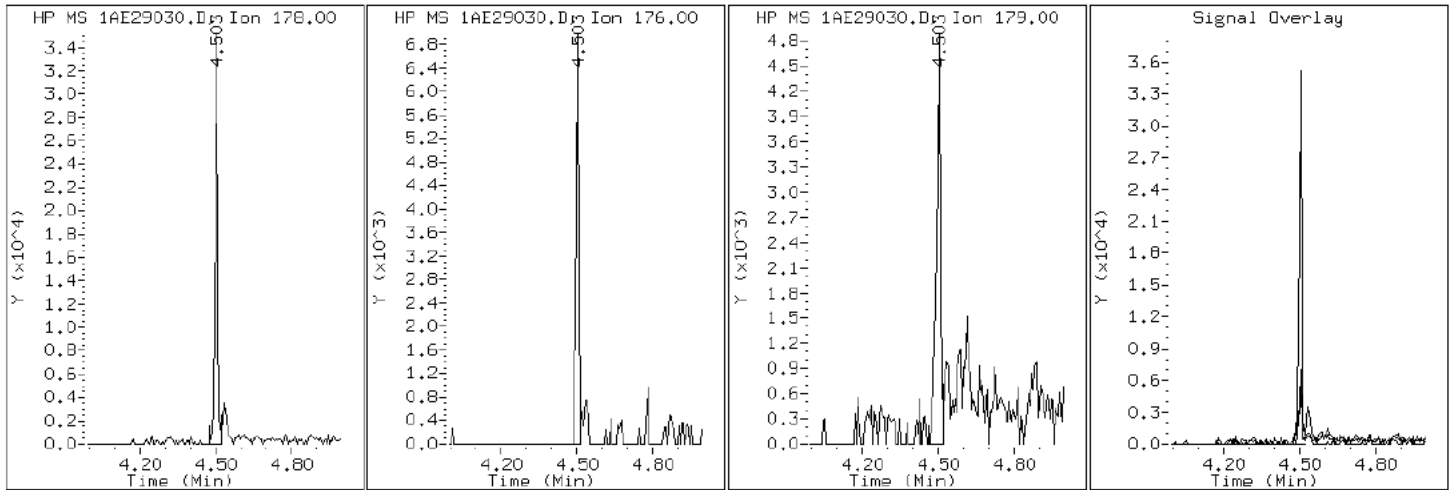
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29030.D

Date: 29-MAY-2013 21:30

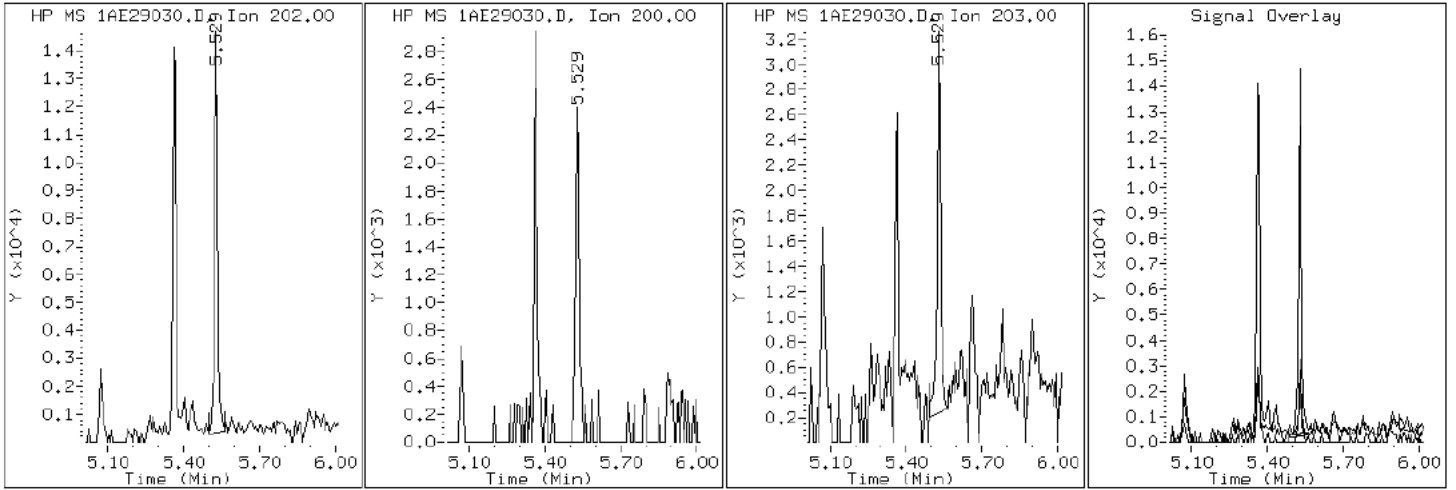
Client ID: CV0991B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-5-a

Operator: SCC

17 Pyrene

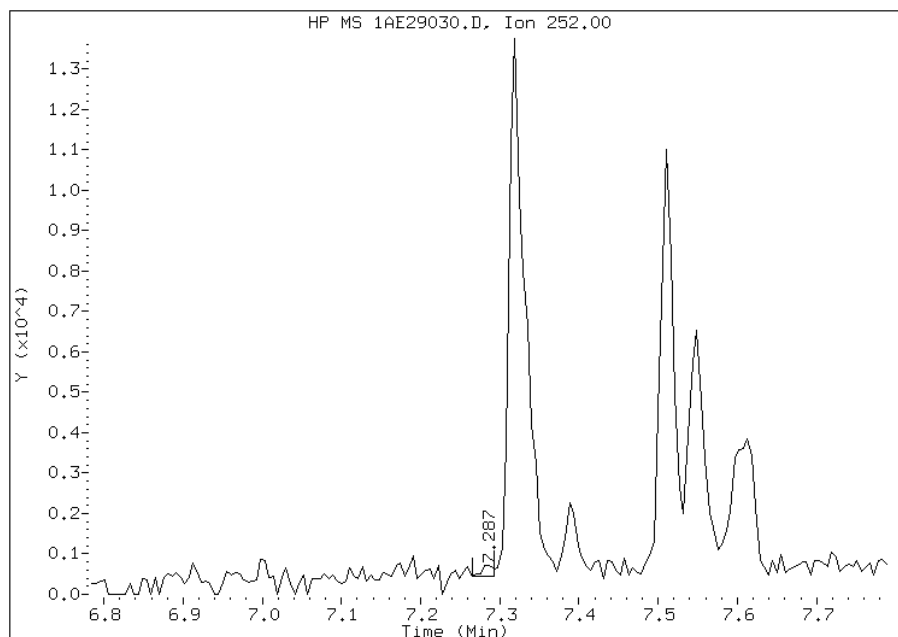


Manual Integration Report

Data File: 1AE29030.D
Inj. Date and Time: 29-MAY-2013 21:30
Instrument ID: BSMA5973.i
Client ID: CV0991B-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

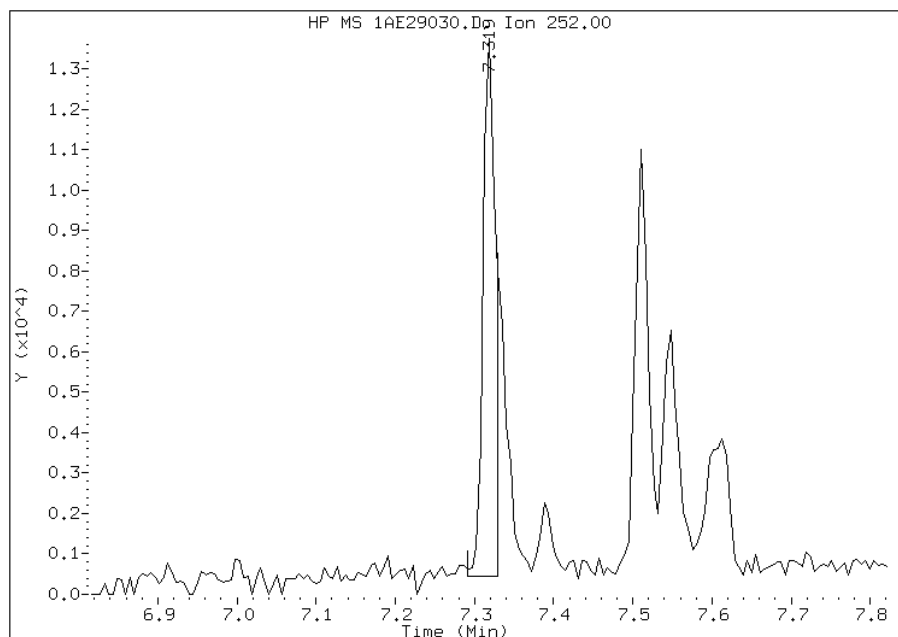
Processing Integration Results

RT: 7.29
Response: 286
Amount: 0
Conc: 65



Manual Integration Results

RT: 7.32
Response: 14492
Amount: 1
Conc: 227



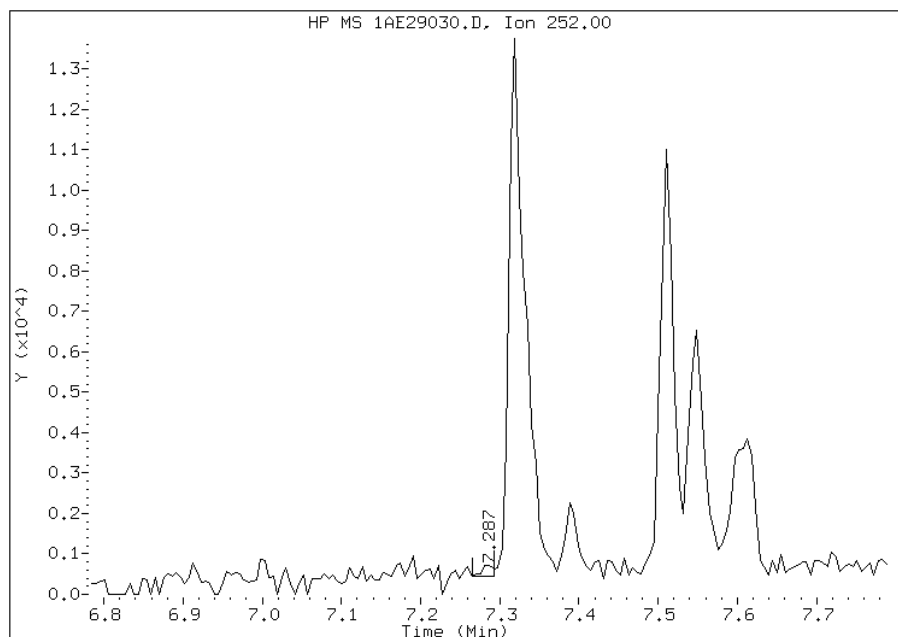
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29030.D
Inj. Date and Time: 29-MAY-2013 21:30
Instrument ID: BSMA5973.i
Client ID: CV0991B-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

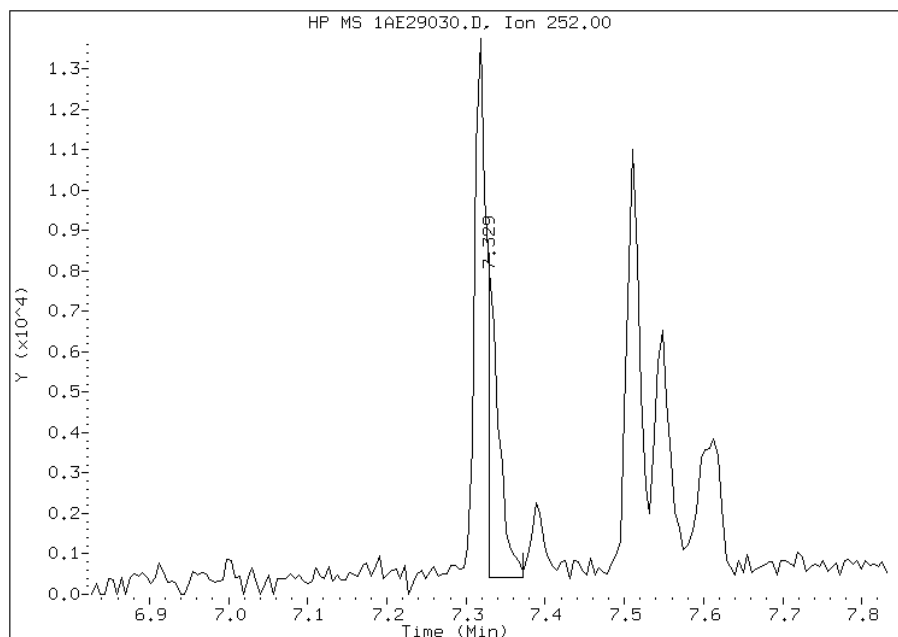
Processing Integration Results

RT: 7.29
Response: 286
Amount: 0
Conc: 3



Manual Integration Results

RT: 7.33
Response: 7459
Amount: 0
Conc: 77



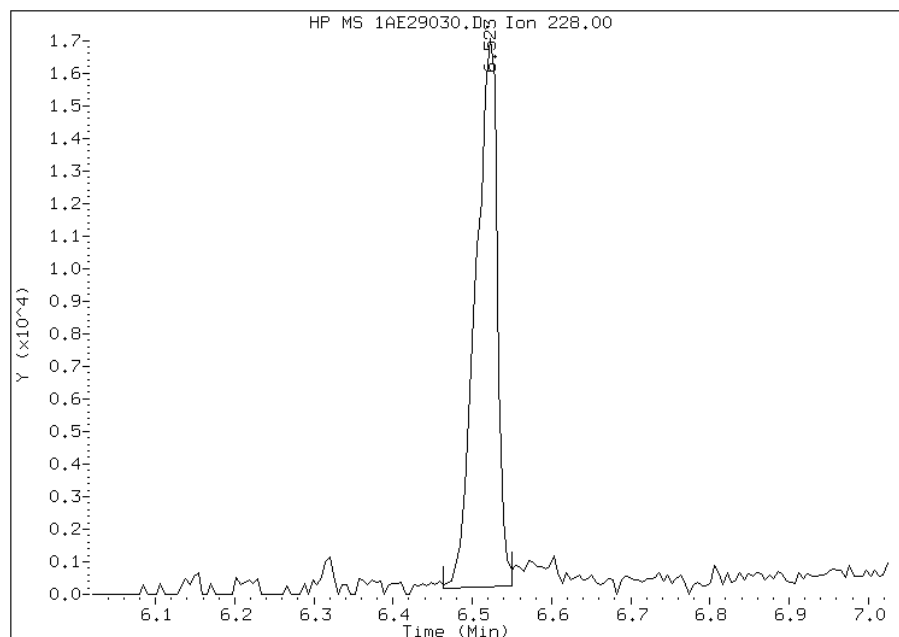
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29030.D
Inj. Date and Time: 29-MAY-2013 21:30
Instrument ID: BSMA5973.i
Client ID: CV0991B-CS
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/04/2013

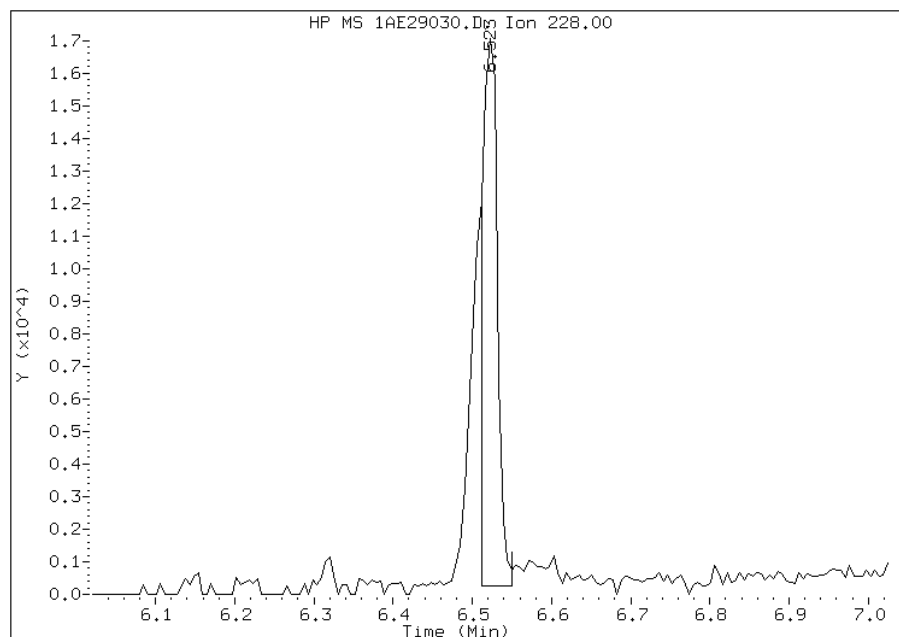
Processing Integration Results

RT: 6.52
Response: 31623
Amount: 2
Conc: 514



Manual Integration Results

RT: 6.52
Response: 22054
Amount: 1
Conc: 359



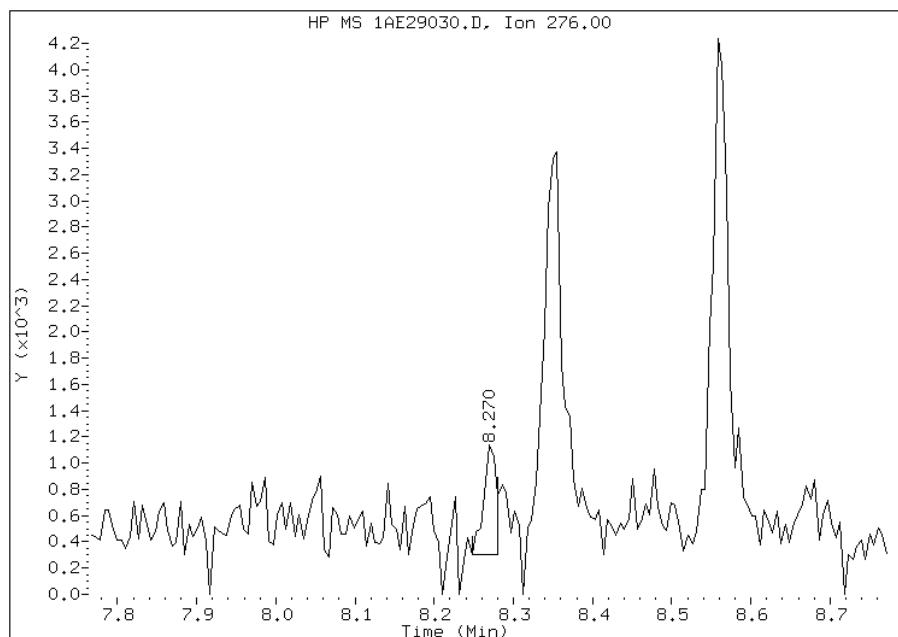
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29030.D
Inj. Date and Time: 29-MAY-2013 21:30
Instrument ID: BSMA5973.i
Client ID: CV0991B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/04/2013

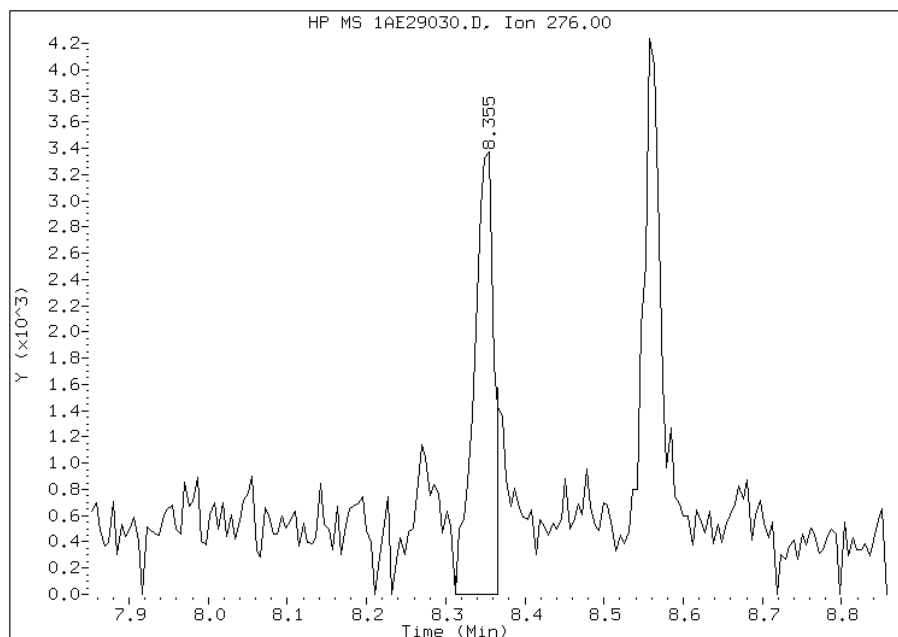
Processing Integration Results

RT: 8.27
Response: 914
Amount: 0
Conc: 58



Manual Integration Results

RT: 8.36
Response: 5815
Amount: 0
Conc: 126



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0992A-CS Lab Sample ID: 680-90686-6
 Matrix: Solid Lab File ID: 1AE29031.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:15
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.28(g) Date Analyzed: 05/29/2013 21:45
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	35	J	210	26
120-12-7	Anthracene	57		43	22
56-55-3	Benzo[a]anthracene	41	U	41	20
50-32-8	Benzo[a]pyrene	180		54	27
205-99-2	Benzo[b]fluoranthene	320		63	31
191-24-2	Benzo[g,h,i]perylene	120		100	23
207-08-9	Benzo[k]fluoranthene	100		41	19
218-01-9	Chrysene	330		46	23
53-70-3	Dibenz(a,h)anthracene	100	U	100	21
206-44-0	Fluoranthene	200		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	100	U	100	37
90-12-0	1-Methylnaphthalene	110	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	230		41	20
129-00-0	Pyrene	220		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29031.D
 Lab Smp Id: 680-90686-A-6-A Client Smp ID: CV0992A-CS
 Inj Date : 29-MAY-2013 21:45
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-6-a
 Misc Info : 680-90686-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	23.800	% 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		2.516	2.512	(1.000)	1021589	40.0000	
* 7 Acenaphthene-d10	164		3.542	3.533	(1.000)	646773	40.0000	
* 11 Phenanthrene-d10	188		4.493	4.478	(1.000)	943778	40.0000	
\$ 15 o-Terphenyl	230		4.776	4.772	(1.063)	14693	1.07639	369.7846
* 19 Chrysene-d12	240		6.512	6.492	(1.000)	618598	40.0000	
* 24 Perylene-d12	264		7.607	7.571	(1.000)	602453	40.0000	(H)
2 Naphthalene	128		2.527	2.518	(1.004)	8959	0.38733	133.0652
3 2-Methylnaphthalene	141		2.933	2.924	(1.166)	5036	0.45728	157.0948
4 1-Methylnaphthalene	142		2.986	2.977	(1.187)	5257	0.32681	112.2722
5 1,1'-Biphenyl	154		3.211	3.207	(1.276)	1140	0.06344	21.7957
6 Acenaphthylene	152		3.451	3.447	(0.974)	2857	0.10096	34.6827
9 Dibenzofuran	168		3.665	3.655	(1.035)	2679	0.11569	39.7442
10 Fluorene	166		3.868	3.864	(1.092)	848	0.04829	16.5911(Q)
12 Phenanthrene	178		4.503	4.494	(1.002)	14252	0.67051	230.3467

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Anthracene	178	4.535	4.526	(1.010)	3721	0.16734	57.4878
16 Fluoranthene	202	5.363	5.354	(1.194)	15442	0.58186	199.8940
17 Pyrene	202	5.529	5.515	(0.849)	12091	0.64865	222.8381
20 Chrysene	228	6.523	6.508	(1.002)	16020	0.97011	333.2739(M)
21 Benzo(b)fluoranthene	252	7.319	7.299	(0.962)	13500	0.93663	321.7708(MH)
22 Benzo(k)fluoranthene	252	7.329	7.320	(0.963)	5967	0.29769	102.2705(QM)
23 Benzo(a)pyrene	252	7.543	7.523	(0.992)	7719	0.52524	180.4428(H)
27 Benzo(g,h,i)perylene	276	8.547	8.522	(1.124)	4618	0.35724	122.7260(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: 1AE29031.D

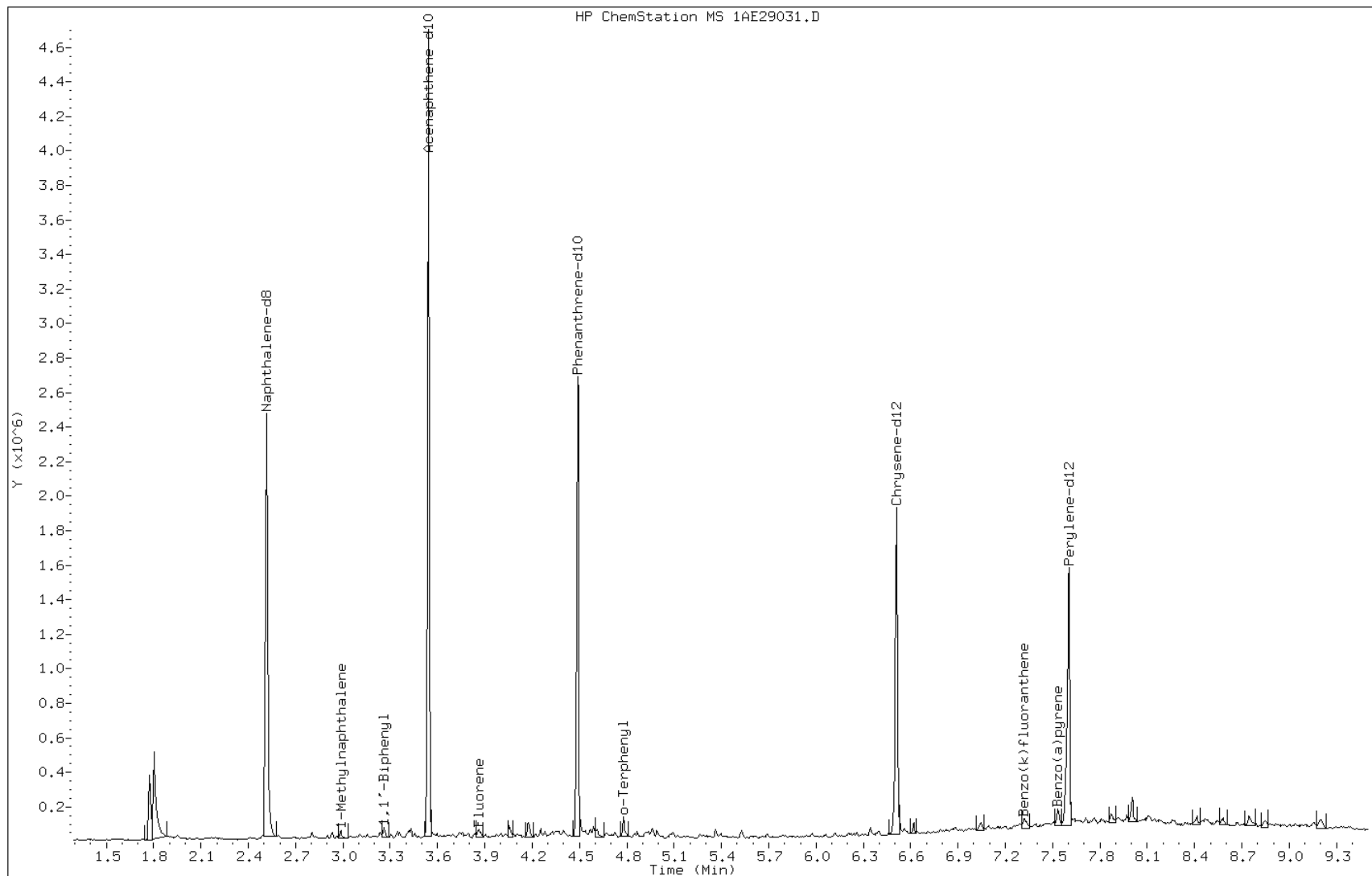
Date: 29-MAY-2013 21:45

Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

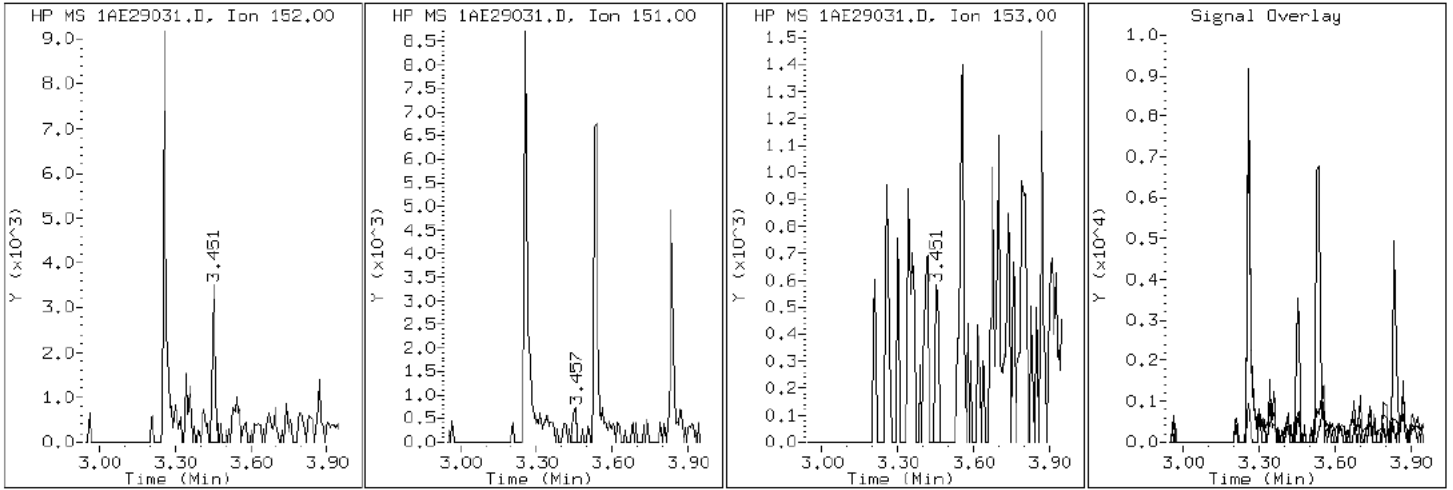
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

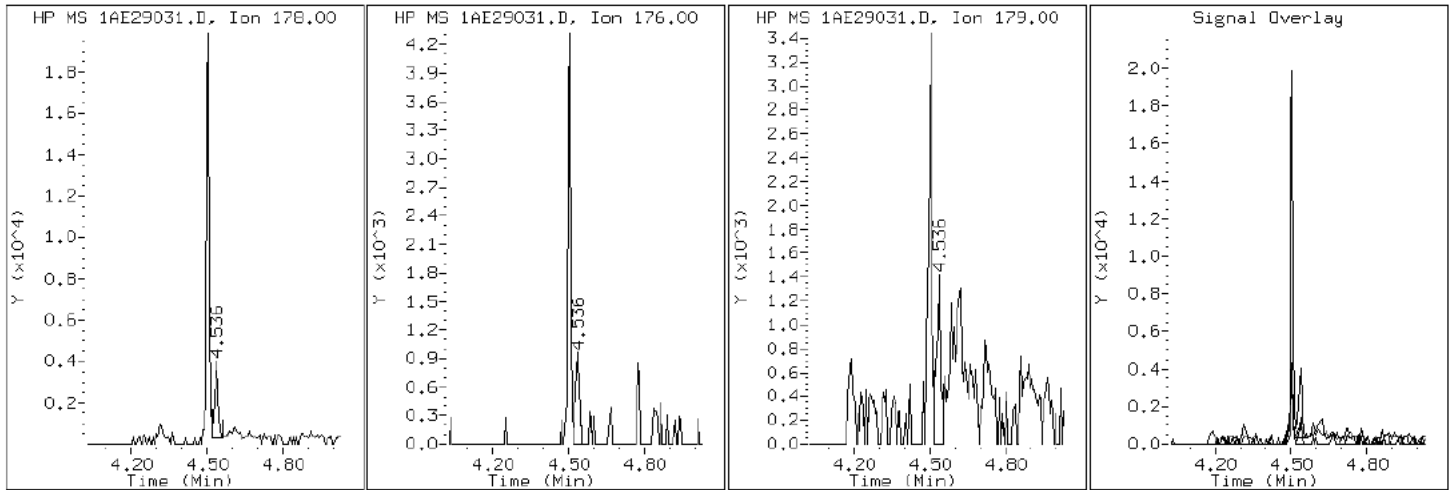
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

13 Anthracene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

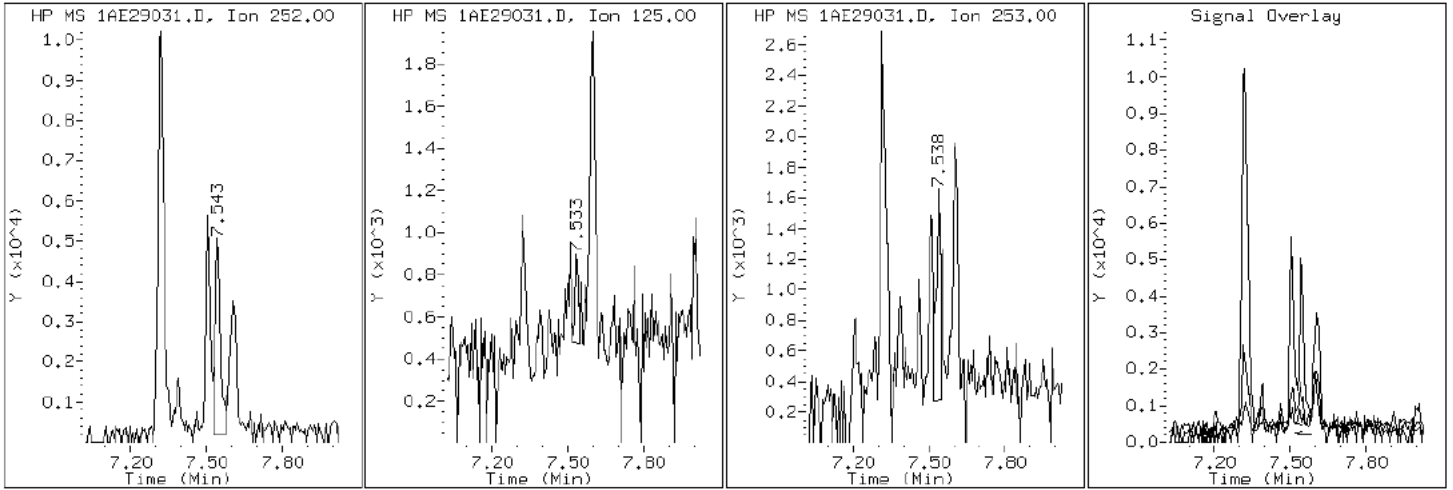
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

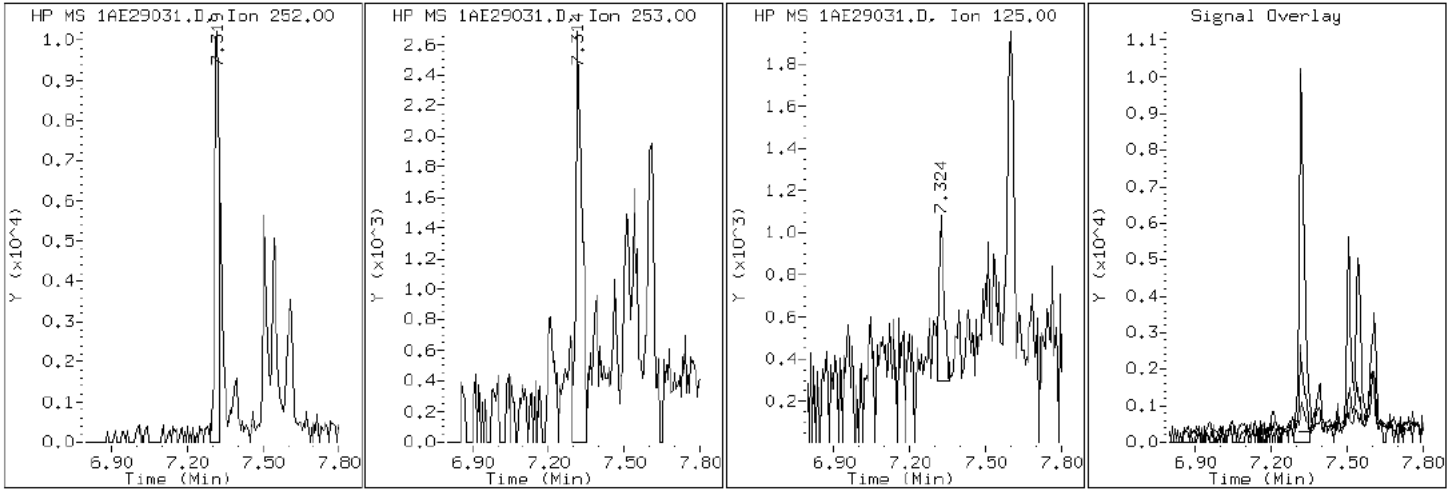
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

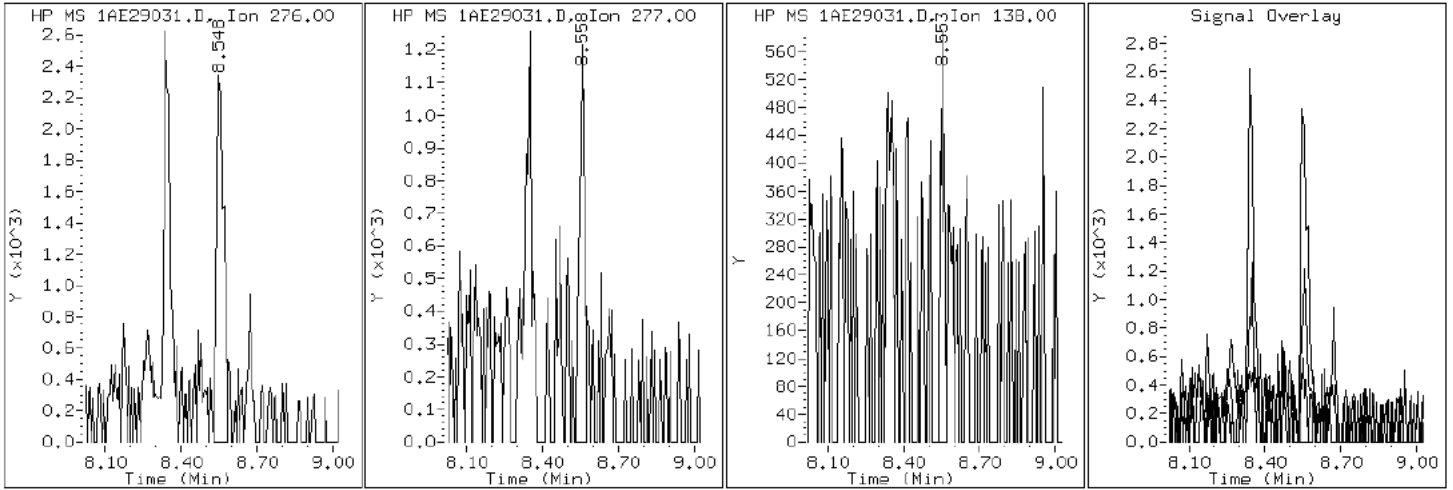
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

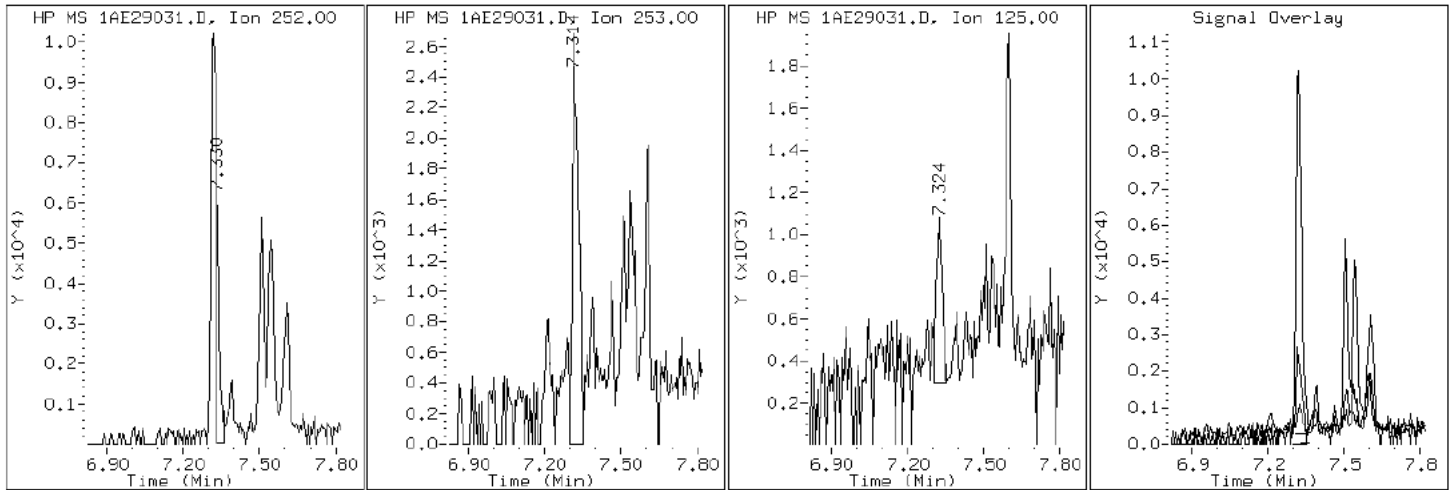
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

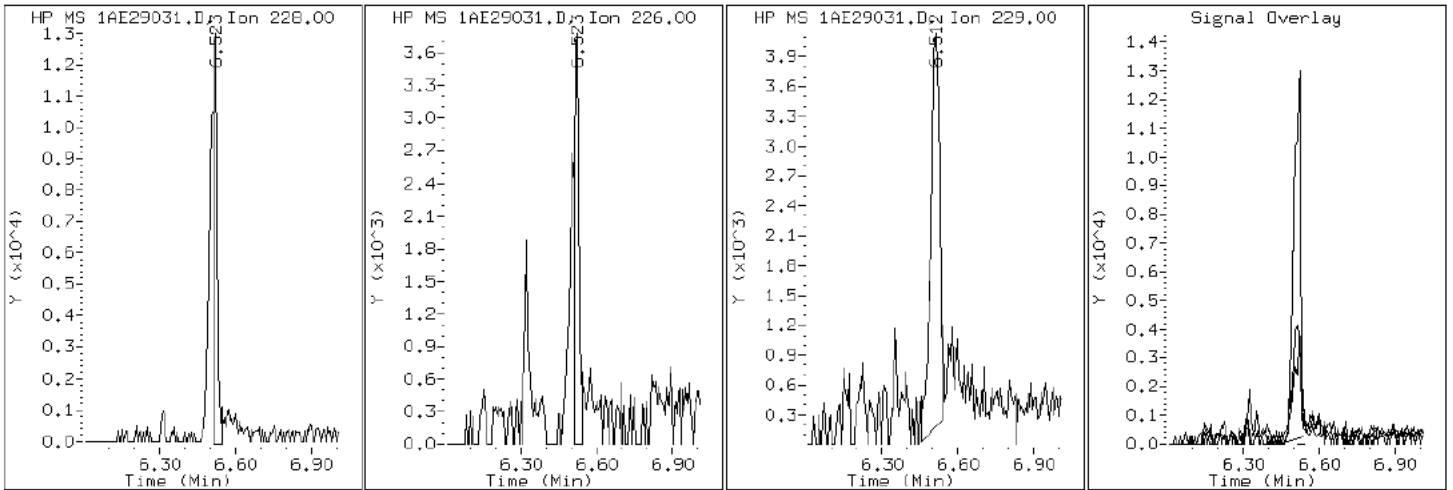
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

20 Chrysene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

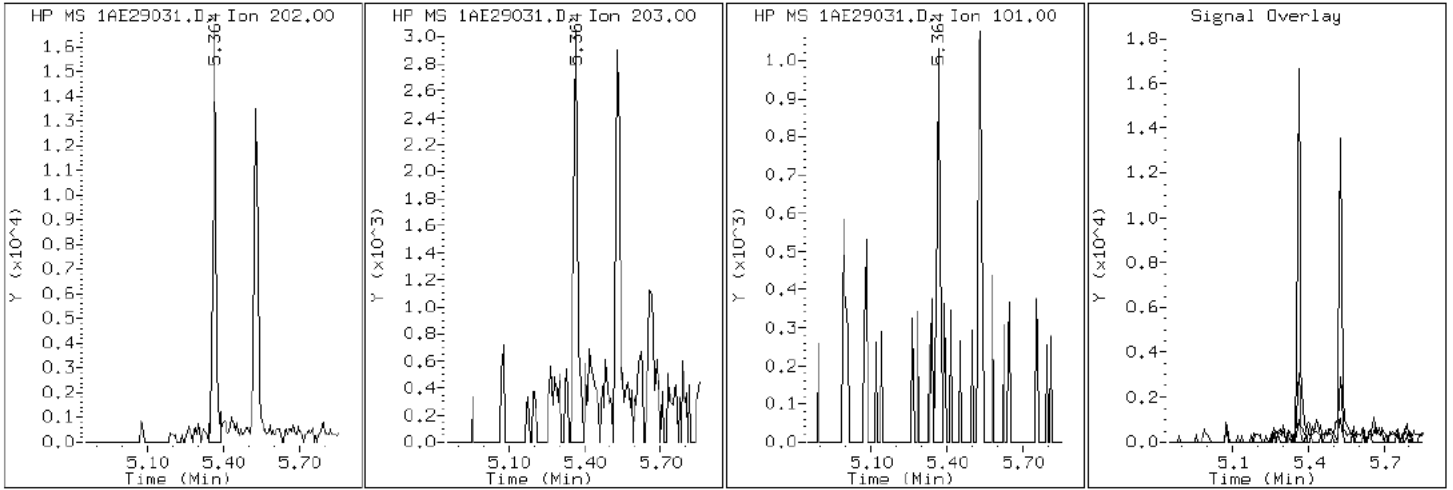
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

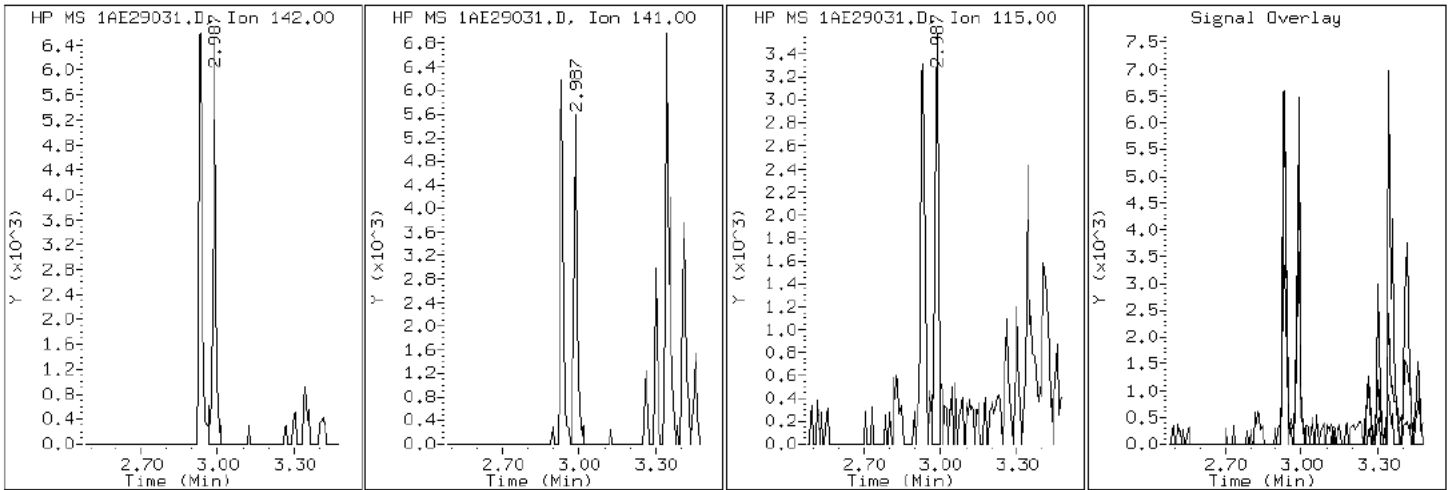
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

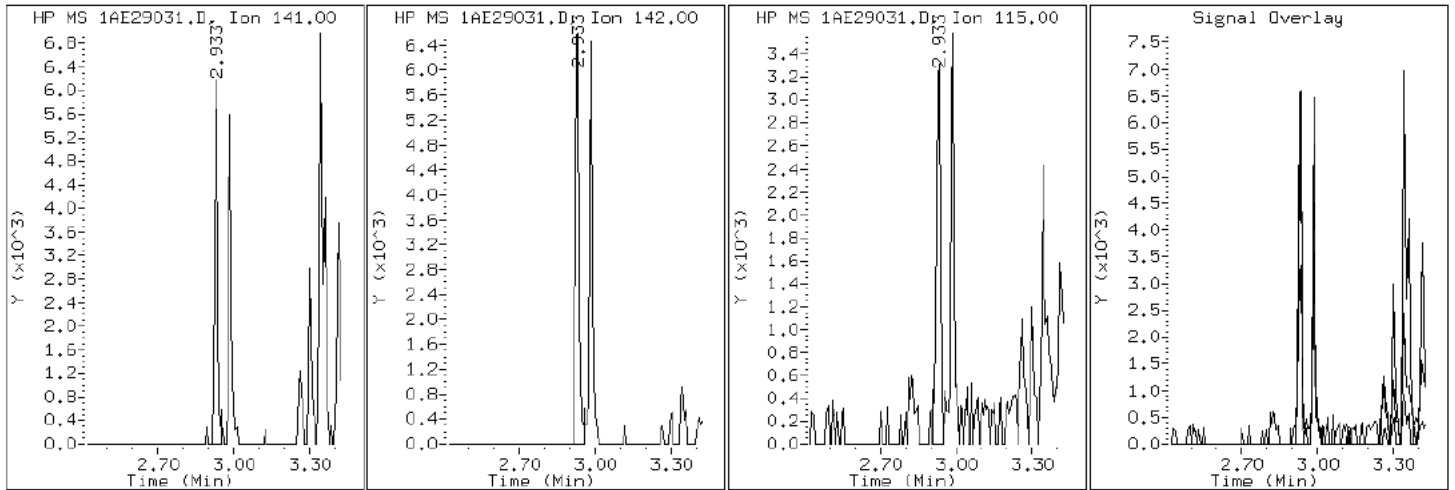
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

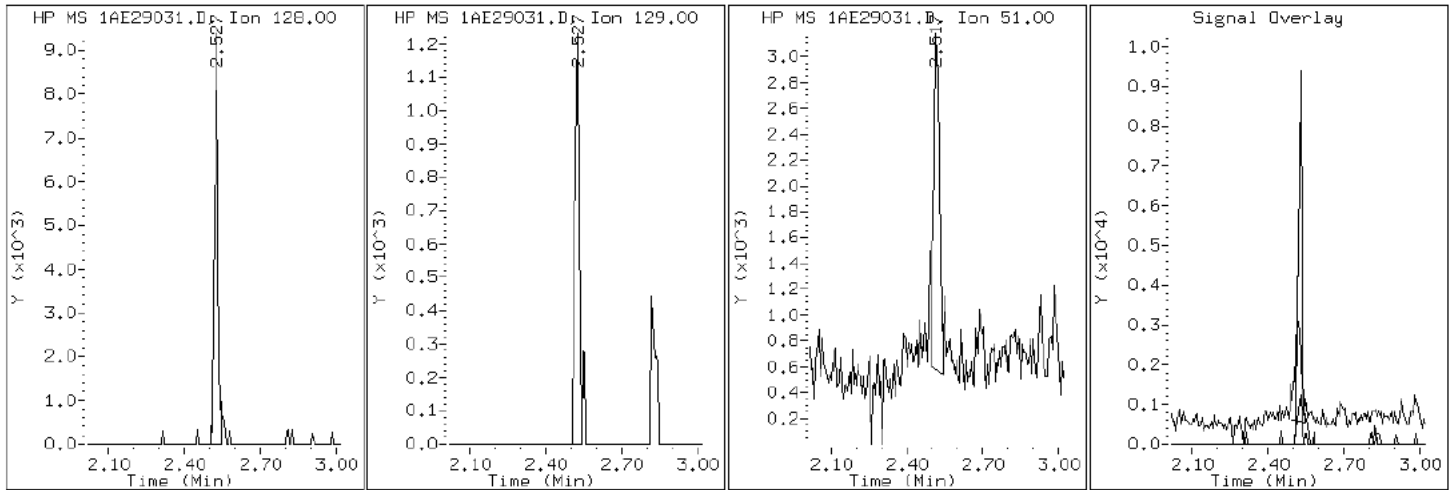
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

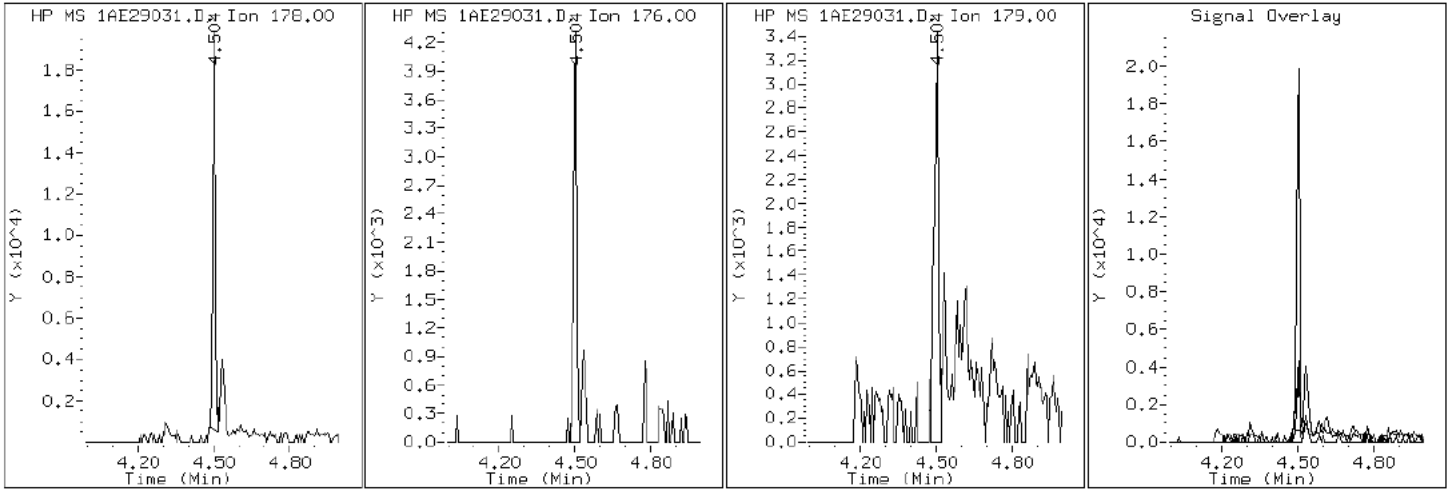
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29031.D

Date: 29-MAY-2013 21:45

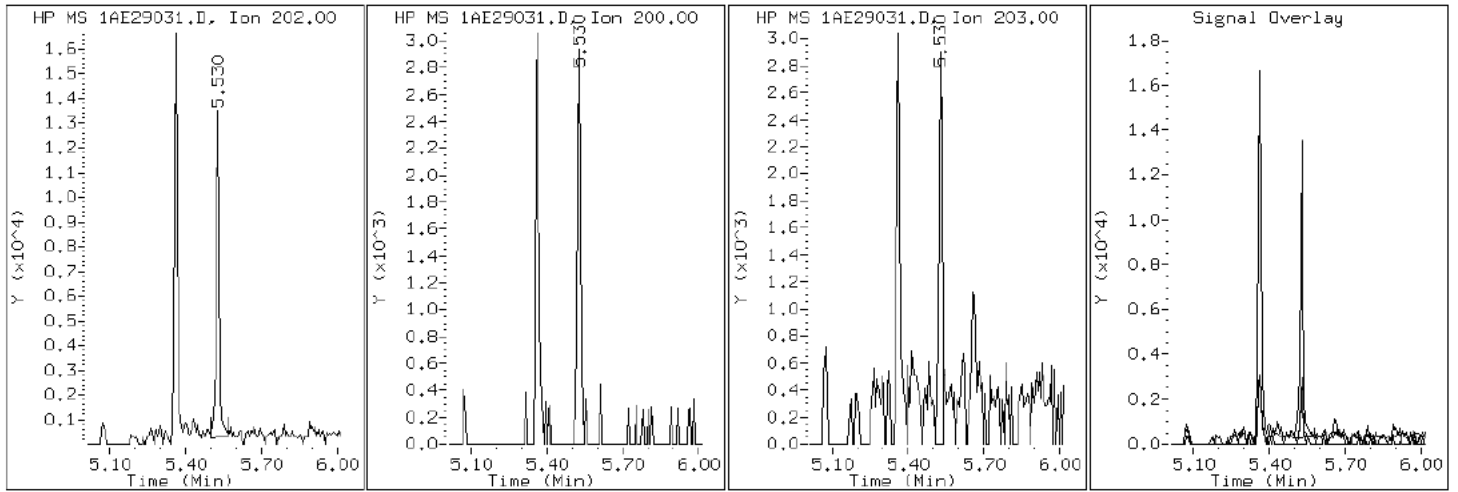
Client ID: CV0992A-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-6-a

Operator: SCC

17 Pyrene

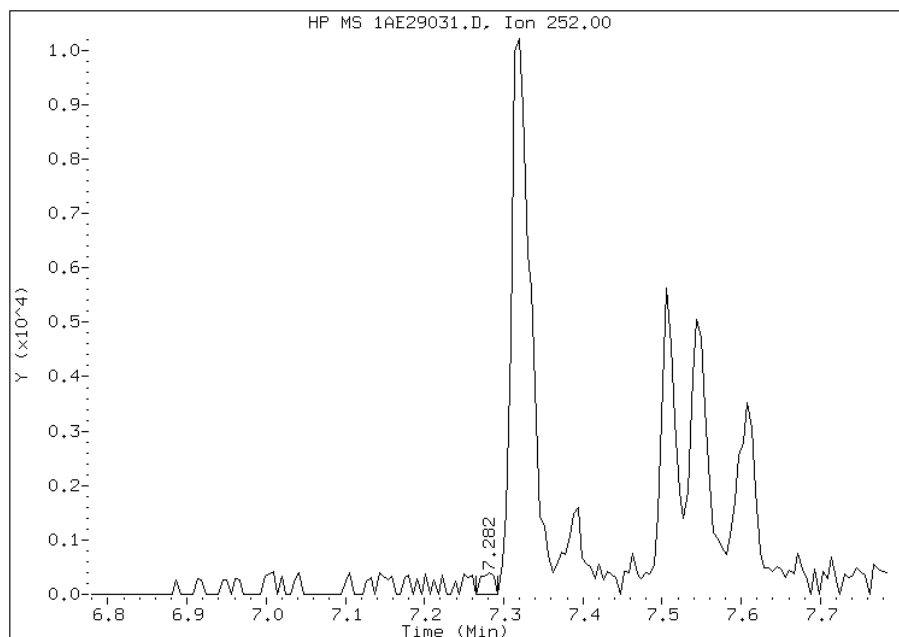


Manual Integration Report

Data File: 1AE29031.D
Inj. Date and Time: 29-MAY-2013 21:45
Instrument ID: BSMA5973.i
Client ID: CV0992A-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 06/04/2013

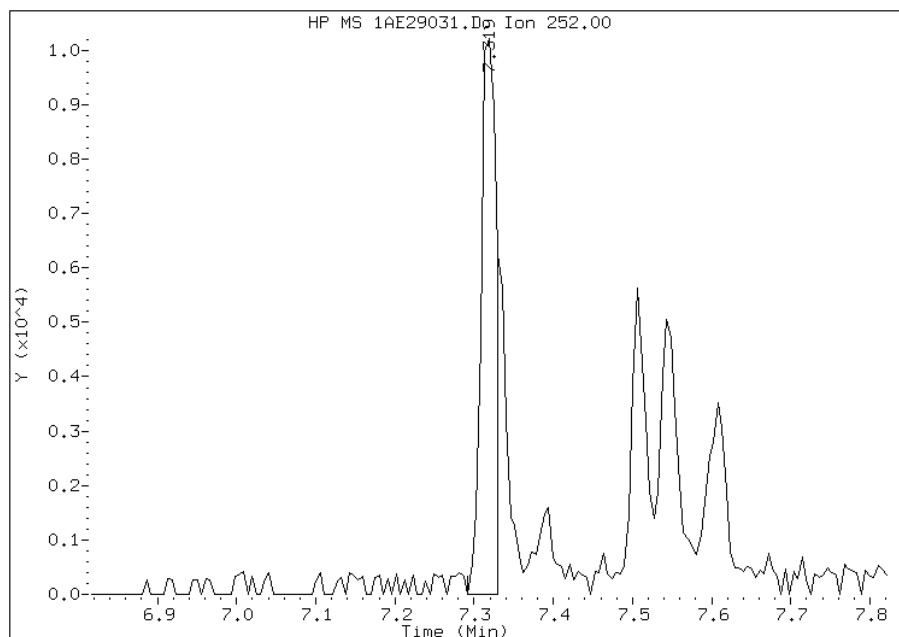
Processing Integration Results

RT: 7.28
Response: 448
Amount: 0
Conc: 75



Manual Integration Results

RT: 7.32
Response: 13500
Amount: 1
Conc: 322



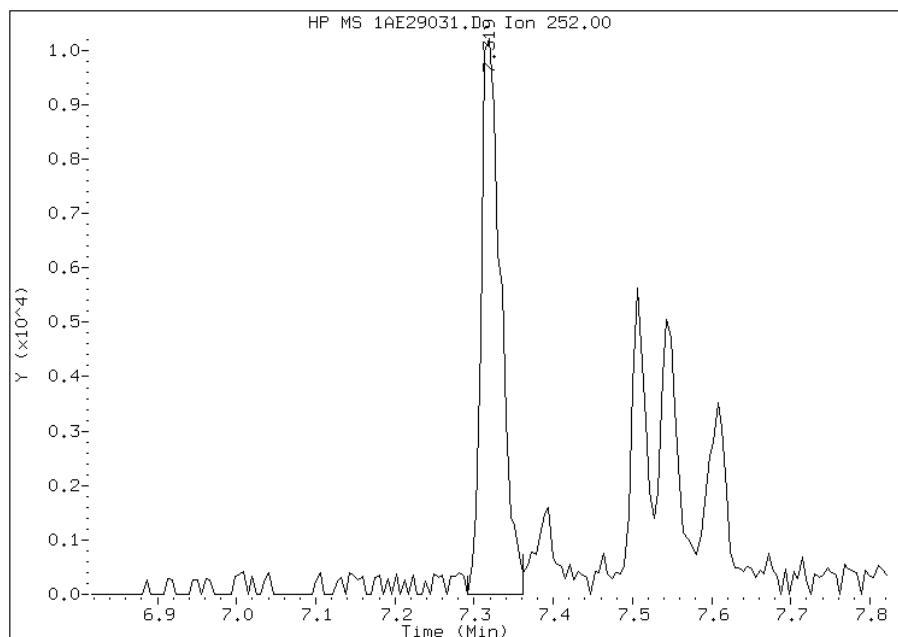
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29031.D
Inj. Date and Time: 29-MAY-2013 21:45
Instrument ID: BSMA5973.i
Client ID: CV0992A-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 06/04/2013

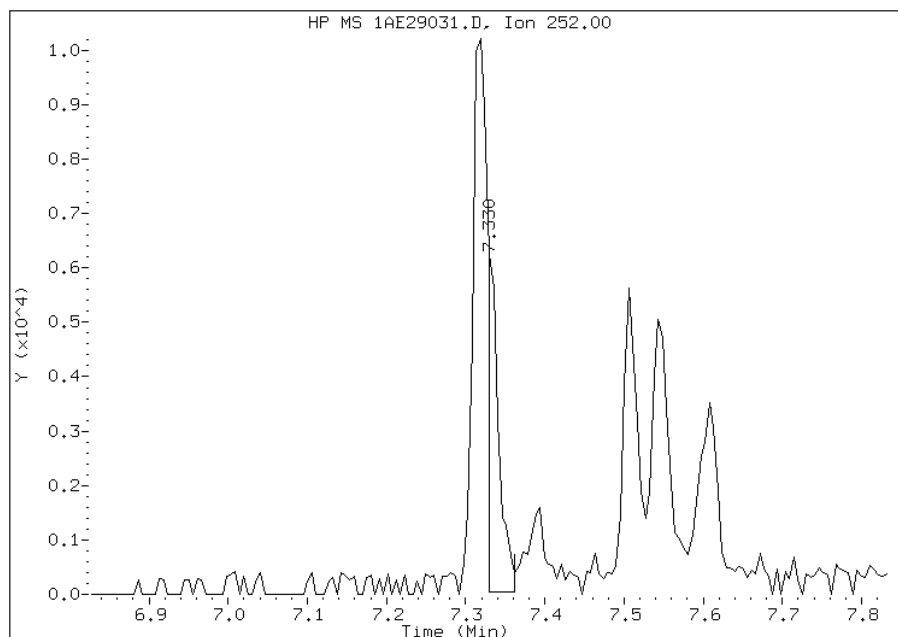
Processing Integration Results

RT: 7.32
Response: 17552
Amount: 1
Conc: 301



Manual Integration Results

RT: 7.33
Response: 5967
Amount: 0
Conc: 102



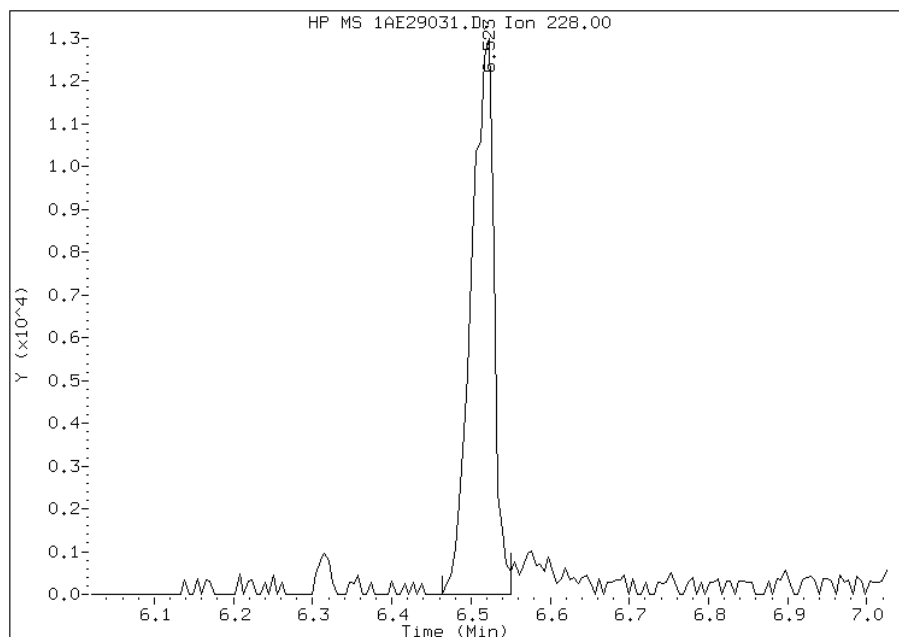
Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29031.D
Inj. Date and Time: 29-MAY-2013 21:45
Instrument ID: BSMA5973.i
Client ID: CV0992A-CS
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 06/04/2013

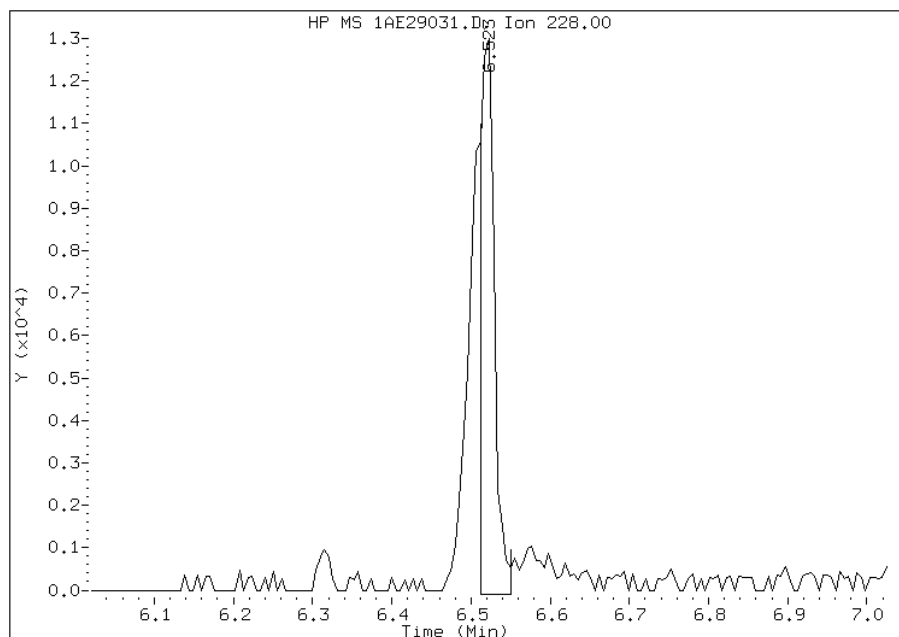
Processing Integration Results

RT: 6.52
Response: 25839
Amount: 2
Conc: 538



Manual Integration Results

RT: 6.52
Response: 16020
Amount: 1
Conc: 333



Manually Integrated By: cantins
Modification Date: 04-Jun-2013 10:59
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0992B-CS Lab Sample ID: 680-90686-7
 Matrix: Solid Lab File ID: 1AE29032.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:25
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.12(g) Date Analyzed: 05/29/2013 22:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	J F	660	130
208-96-8	Acenaphthylene	78	J F	260	33
120-12-7	Anthracene	420	F	55	28
56-55-3	Benzo[a]anthracene	1300	F	53	26
50-32-8	Benzo[a]pyrene	670	F	69	34
205-99-2	Benzo[b]fluoranthene	1200	F	80	40
191-24-2	Benzo[g,h,i]perylene	370	F	130	29
207-08-9	Benzo[k]fluoranthene	300		53	24
218-01-9	Chrysene	990	F	59	30
53-70-3	Dibenz(a,h)anthracene	150	F	130	27
206-44-0	Fluoranthene	1500	F	130	26
86-73-7	Fluorene	130	F	130	27
193-39-5	Indeno[1,2,3-cd]pyrene	390	F	130	47
90-12-0	1-Methylnaphthalene	240	J	260	29
91-57-6	2-Methylnaphthalene	300		260	47
91-20-3	Naphthalene	270		260	29
85-01-8	Phenanthrene	1500	F	53	26
129-00-0	Pyrene	1400	F	130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	32		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29032.D
 Lab Smp Id: 680-90686-A-7-A Client Smp ID: CV0992B-CS
 Inj Date : 29-MAY-2013 22:00
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-7-a
 Misc Info : 680-90686-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 29
 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	15.120	Weight Extracted
M	39.771	% 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		2.517	2.512	(1.000)	976484	40.0000	
* 7 Acenaphthene-d10	164		3.543	3.533	(1.000)	617380	40.0000	
* 11 Phenanthrene-d10	188		4.488	4.478	(1.000)	895595	40.0000	
\$ 15 o-Terphenyl	230		4.777	4.772	(1.064)	10378	0.80118	351.9089
* 19 Chrysene-d12	240		6.513	6.492	(1.000)	678361	40.0000	
* 24 Perylene-d12	264		7.608	7.571	(1.000)	695752	40.0000	
2 Naphthalene	128		2.528	2.518	(1.004)	13494	0.61035	268.0877
3 2-Methylnaphthalene	141		2.934	2.924	(1.166)	7095	0.67400	296.0463
4 1-Methylnaphthalene	142		2.987	2.977	(1.187)	8365	0.54404	238.9633
5 1,1'-Biphenyl	154		3.211	3.207	(1.276)	2024	0.11784	51.7617
6 Acenaphthylene	152		3.452	3.447	(0.974)	4823	0.17854	78.4223
8 Acenaphthene	154		3.559	3.554	(1.005)	5090	0.35254	154.8488
9 Dibenzofuran	168		3.660	3.655	(1.033)	6378	0.28854	126.7375
10 Fluorene	166		3.868	3.864	(1.092)	4938	0.29461	129.4052

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Phenanthrene	178	4.504	4.494	(1.004)	68667	3.40434	1495.3147
13 Anthracene	178	4.536	4.526	(1.011)	20251	0.95971	421.5420
16 Fluoranthene	202	5.364	5.354	(1.195)	86007	3.41514	1500.0592
17 Pyrene	202	5.530	5.515	(0.849)	66020	3.22977	1418.6346
18 Benzo(a)anthracene	228	6.508	6.481	(0.999)	57547	2.98594	1311.5379
20 Chrysene	228	6.524	6.508	(1.002)	40800	2.25303	989.6159
21 Benzo(b)fluoranthene	252	7.320	7.299	(0.962)	51864	2.66730	1171.5766(M)
22 Benzo(k)fluoranthene	252	7.336	7.320	(0.964)	15901	0.68692	301.7225(QMH)
23 Benzo(a)pyrene	252	7.549	7.523	(0.992)	25819	1.52127	668.2006
25 Indeno(1,2,3-cd)pyrene	276	8.345	8.314	(1.097)	12880	0.89304	392.2544(M)
26 Dibenzo(a,h)anthracene	278	8.367	8.341	(1.100)	3350	0.33364	146.5485
27 Benzo(g,h,i)perylene	276	8.554	8.522	(1.124)	12665	0.84835	372.6290

QC Flag Legend

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

Data File: 1AE29032.D

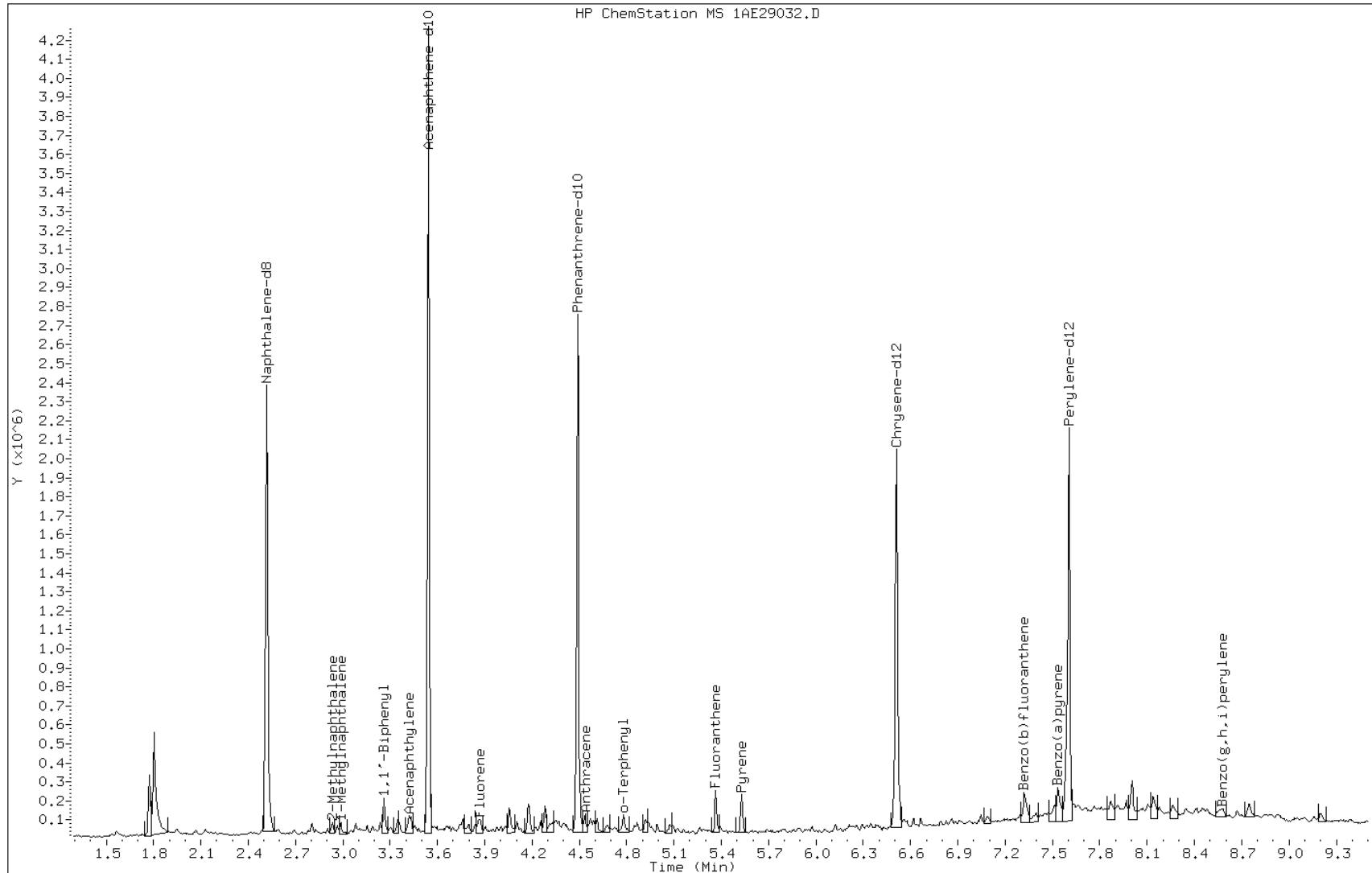
Date: 29-MAY-2013 22:00

Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

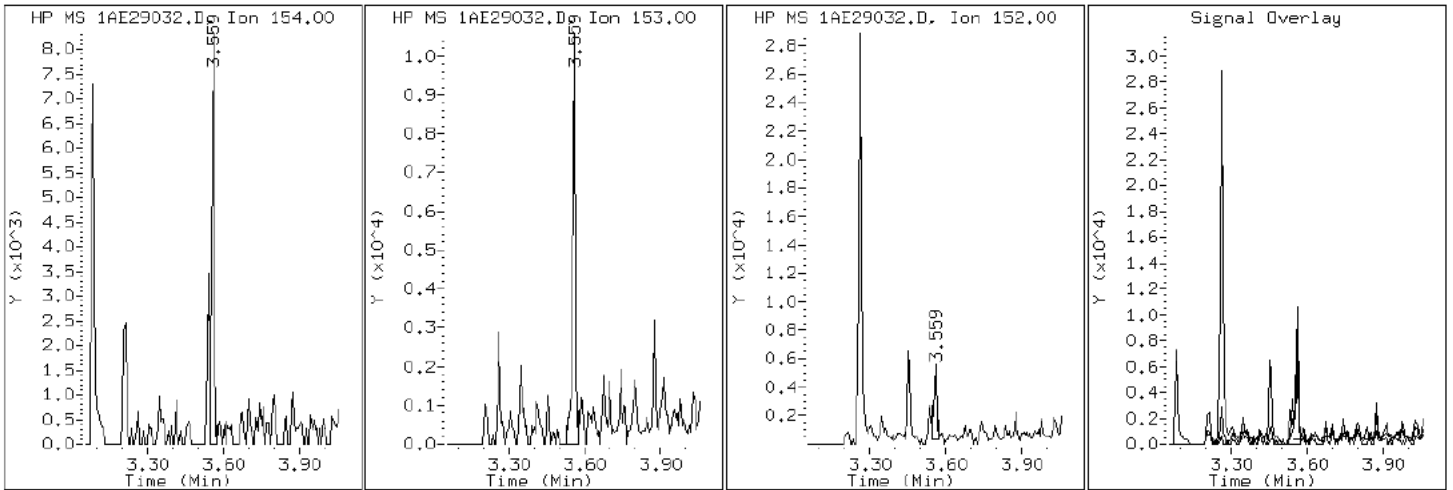
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

8 Acenaphthene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

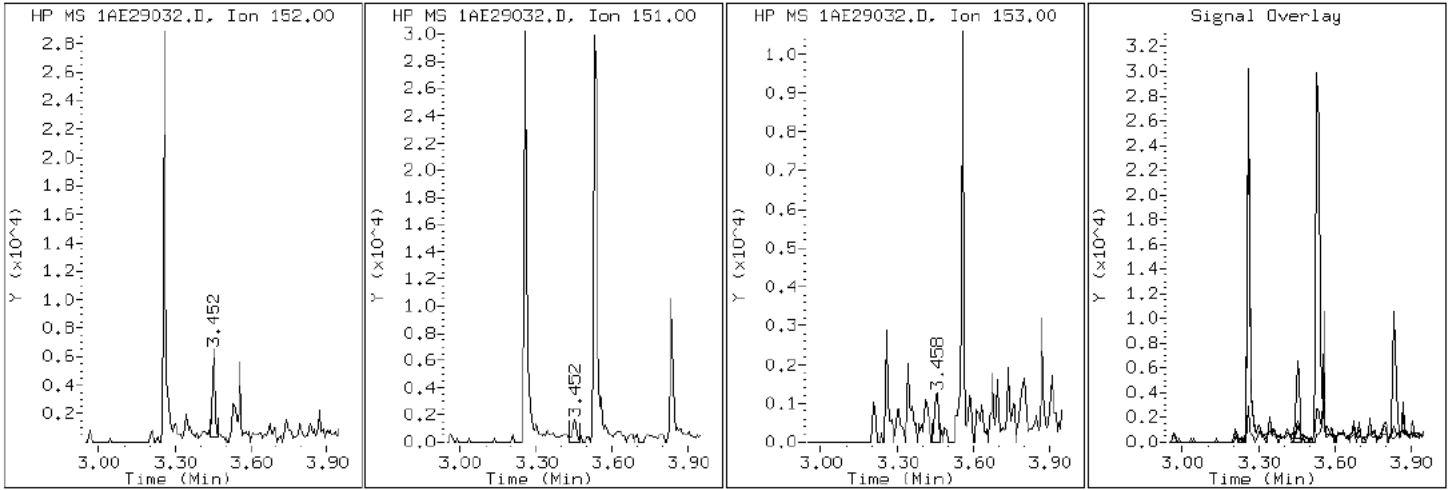
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

6 Acenaphthylene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

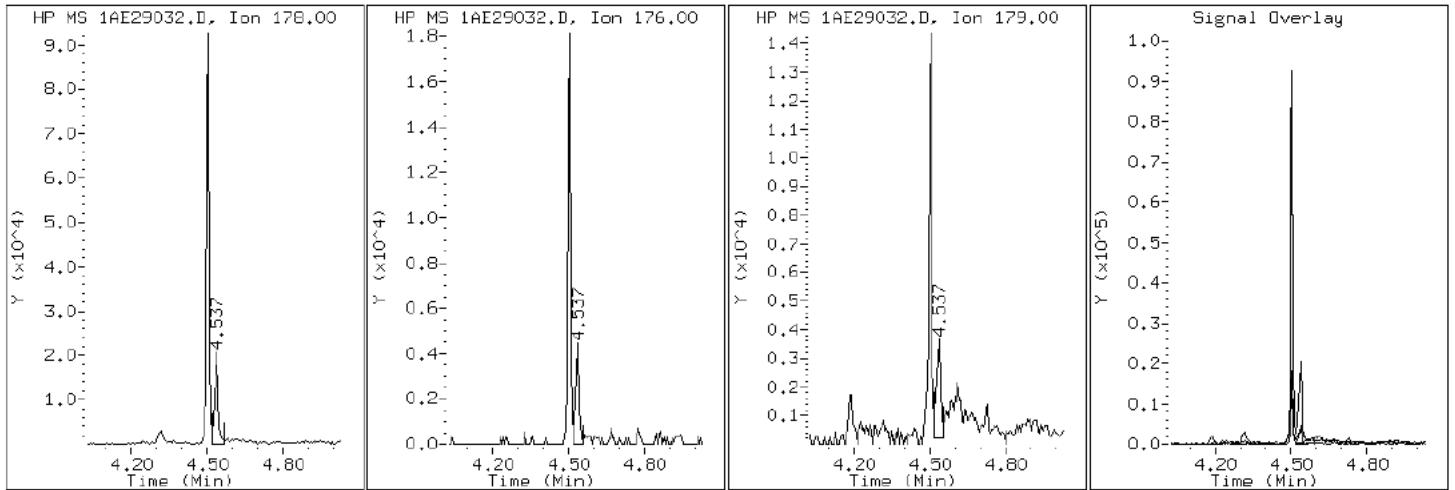
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

13 Anthracene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

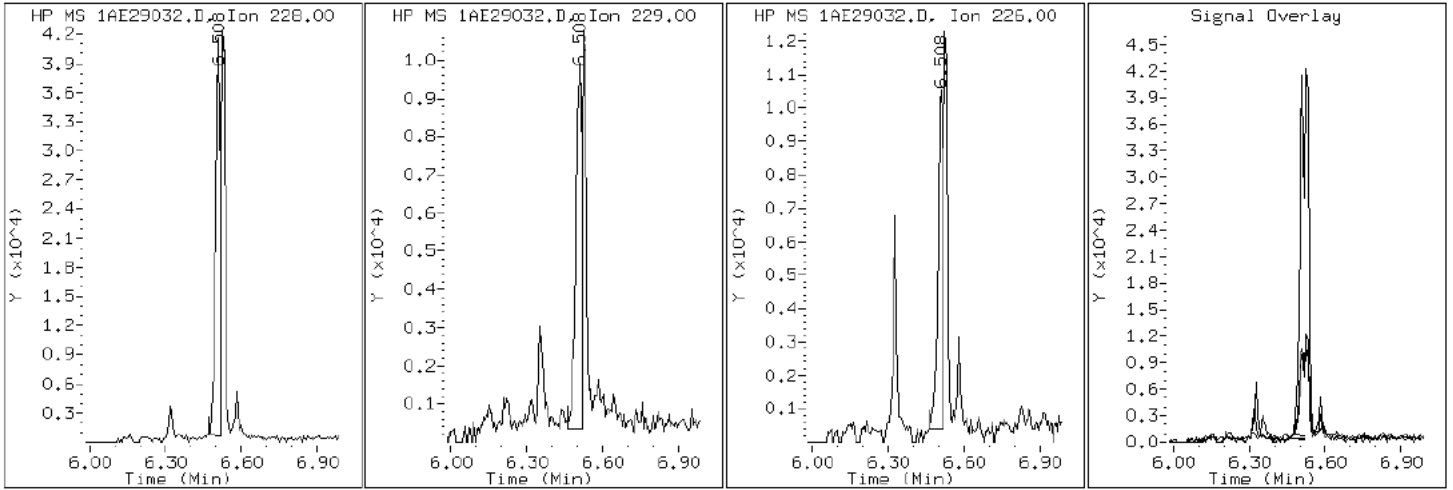
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

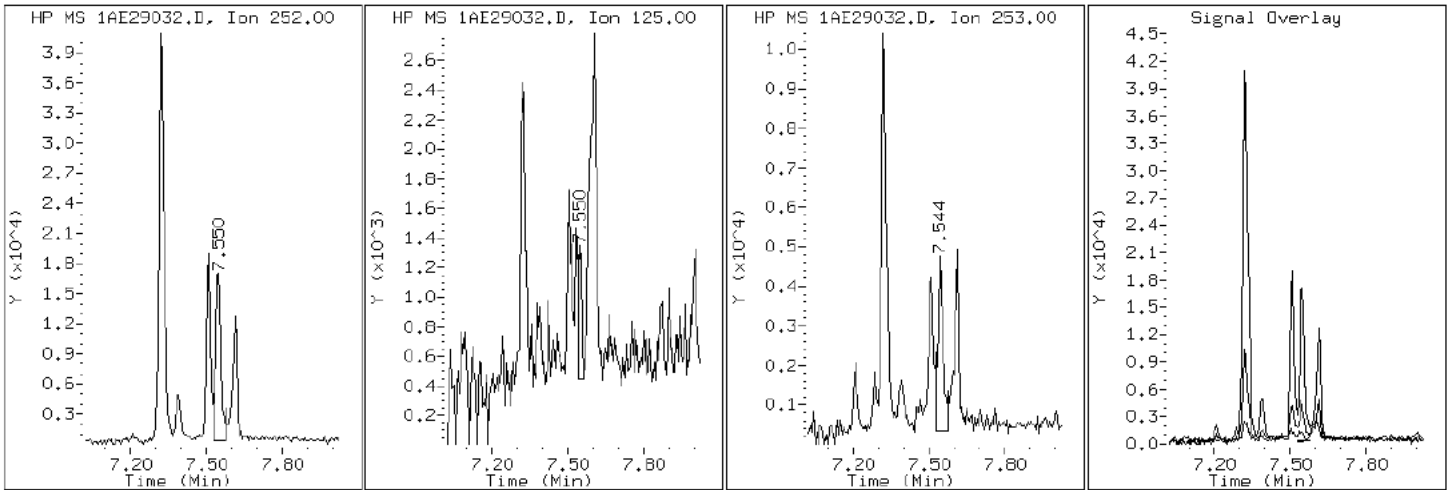
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

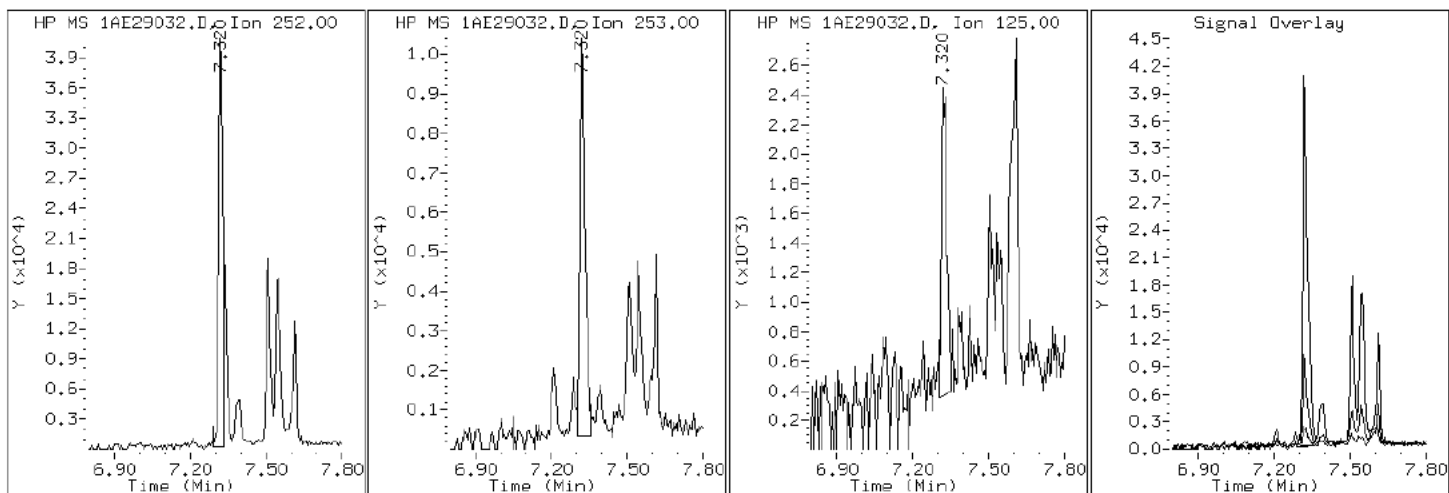
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

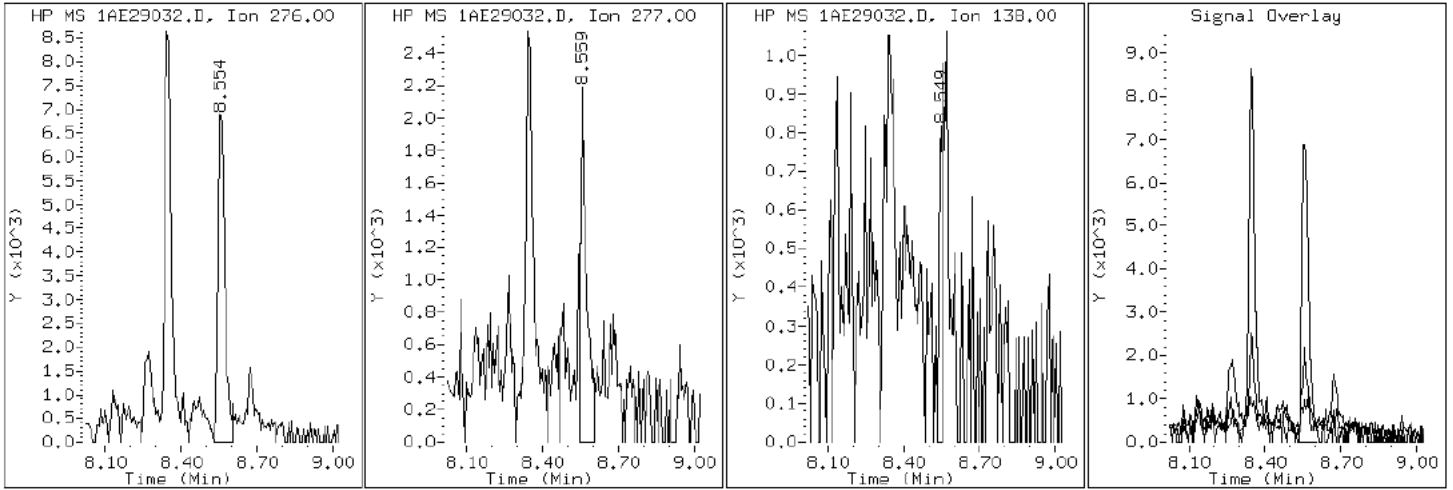
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

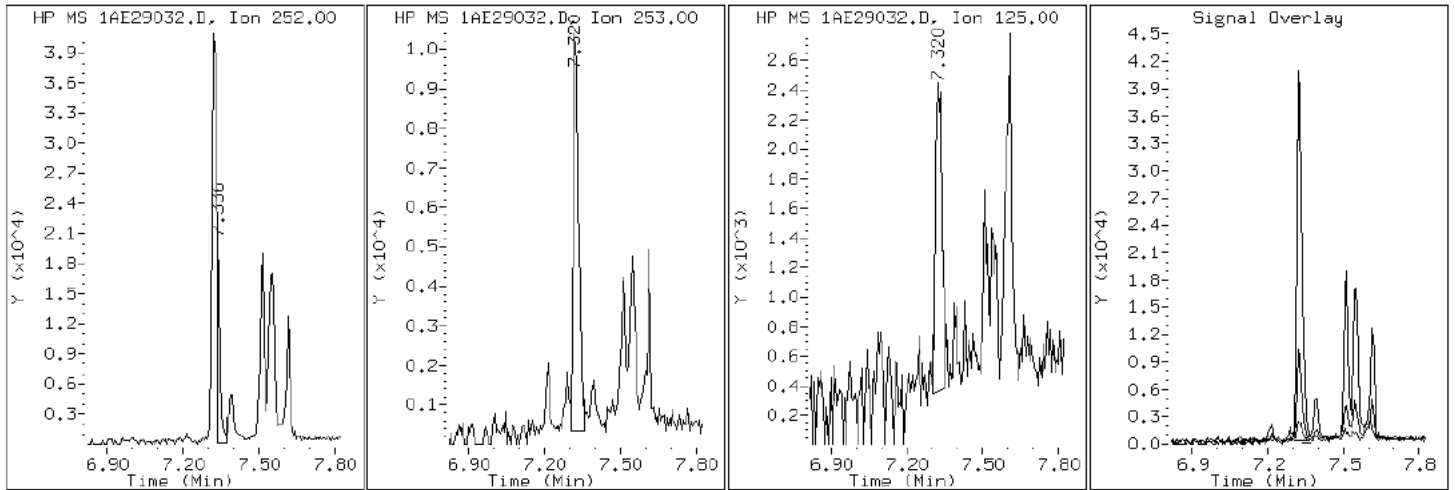
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

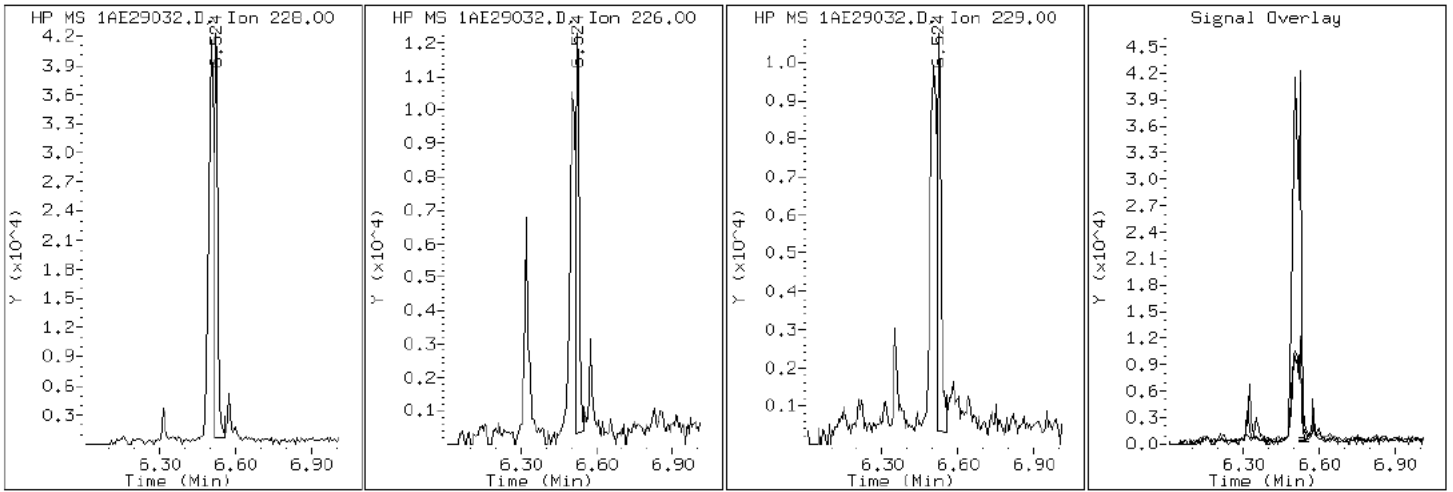
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

20 Chrysene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

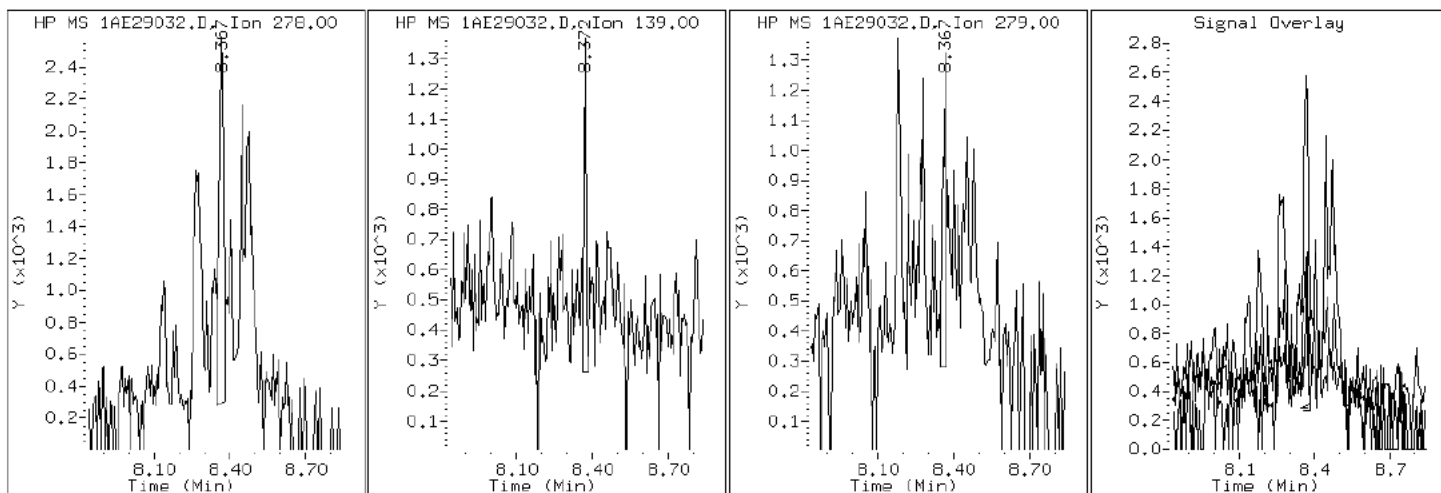
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

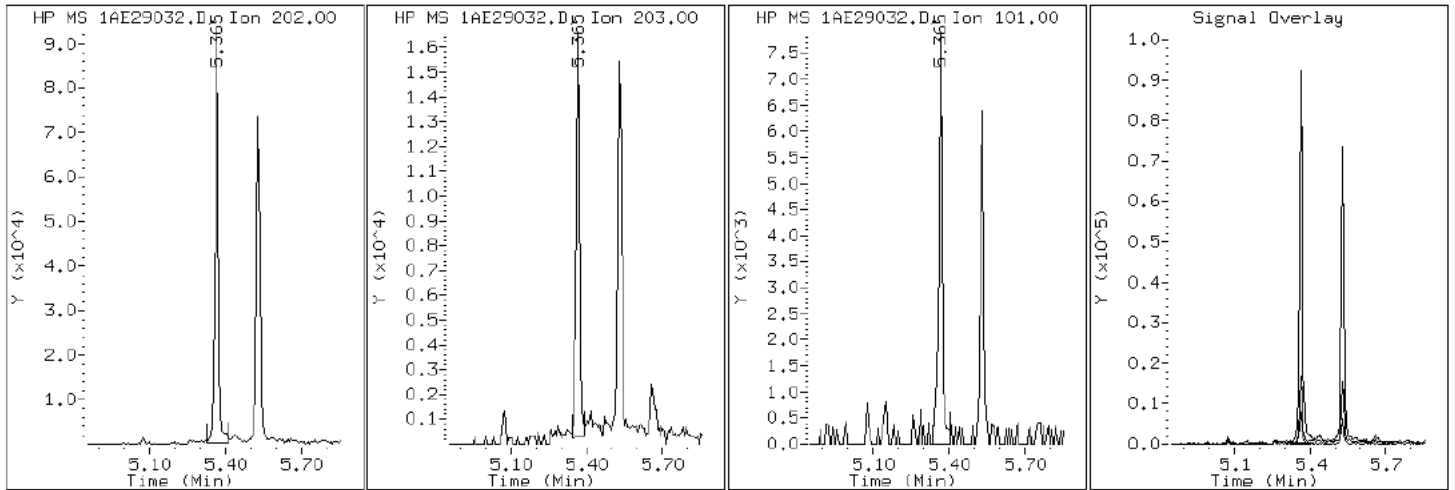
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

16 Fluoranthene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

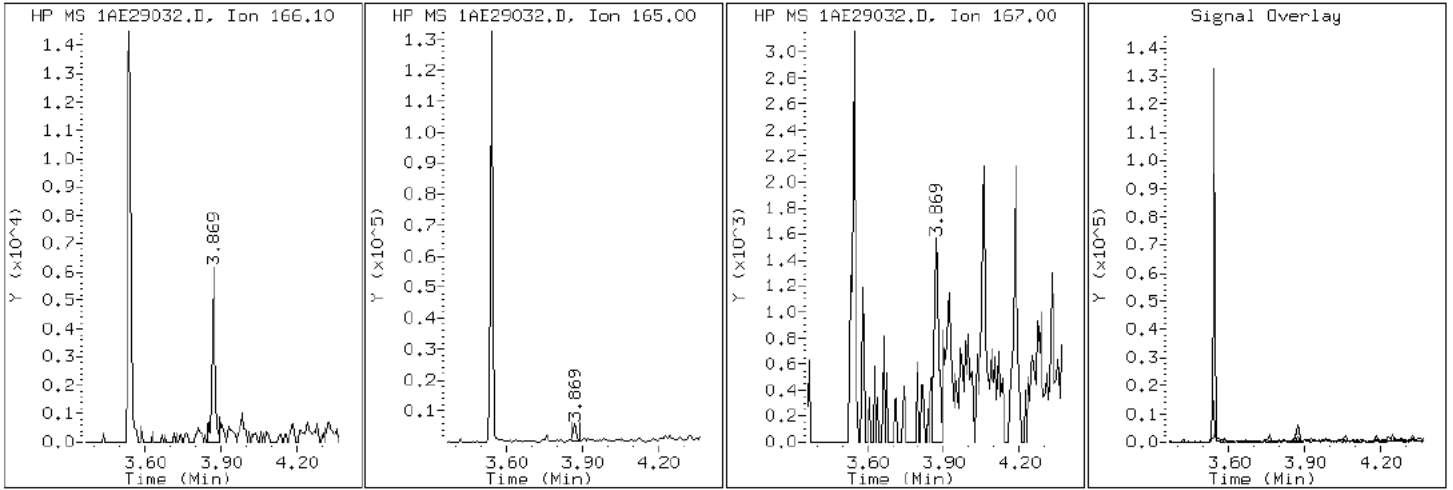
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

10 Fluorene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

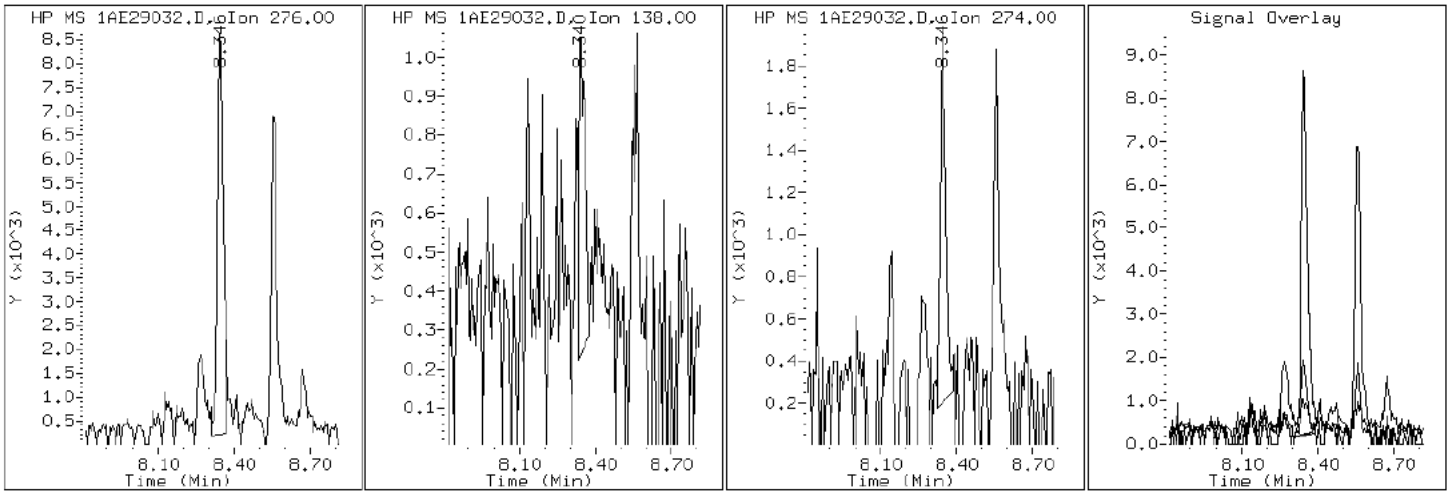
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

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



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

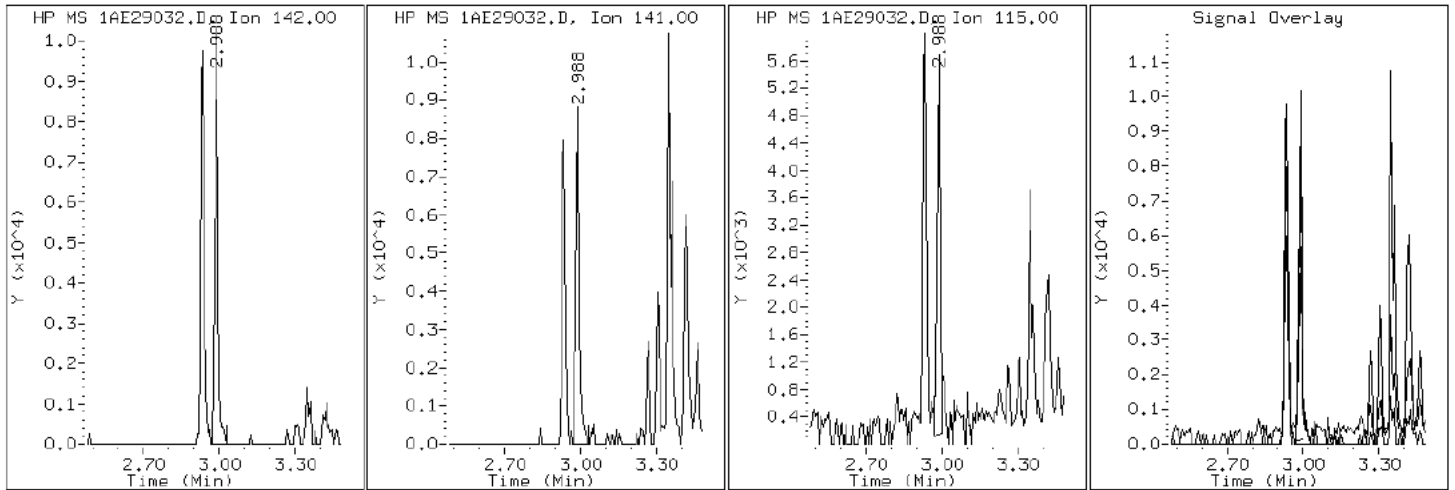
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

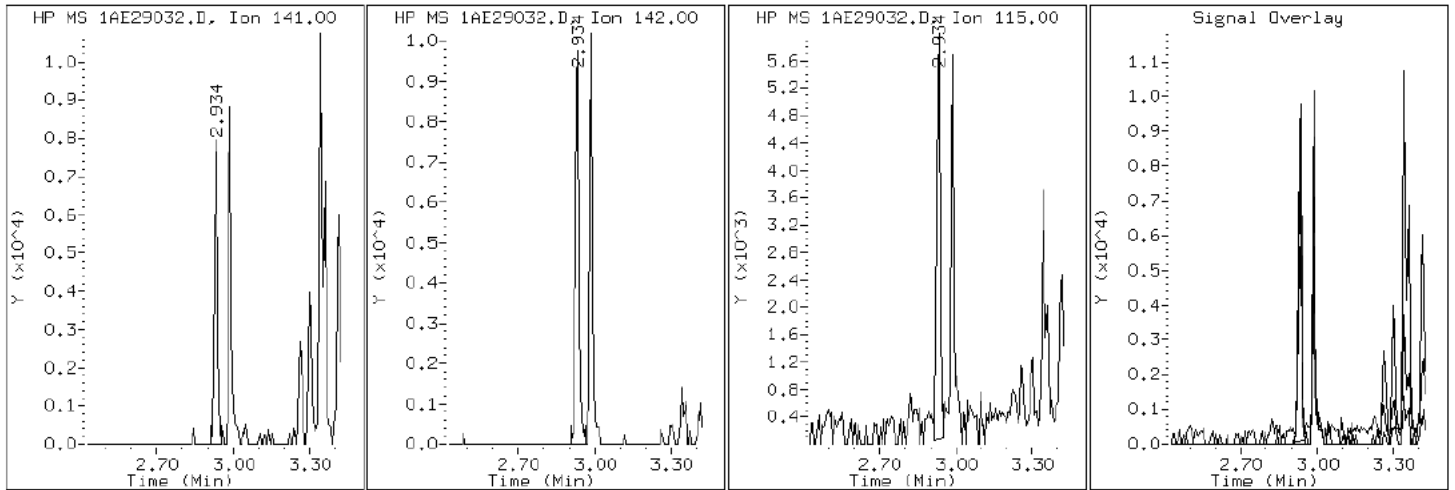
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

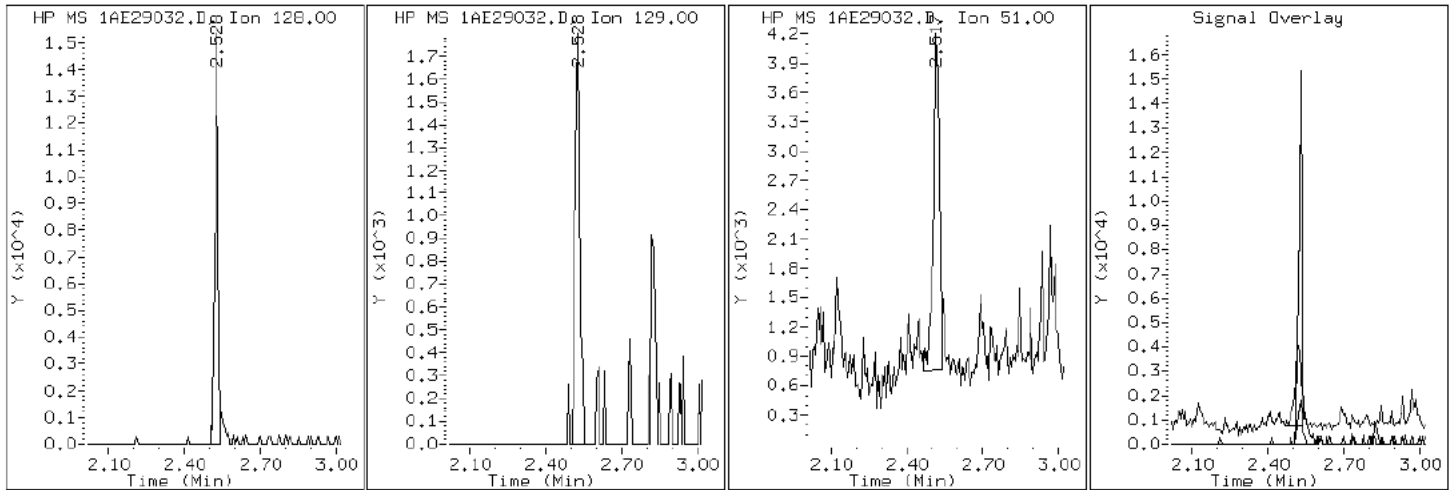
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

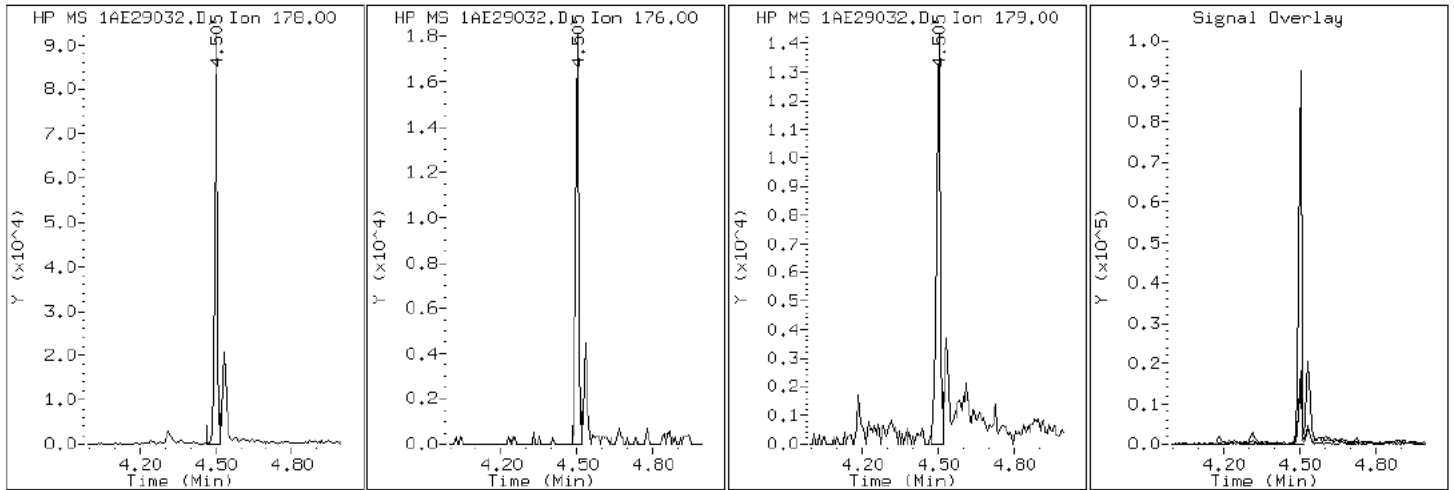
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

12 Phenanthrene



Data File: 1AE29032.D

Date: 29-MAY-2013 22:00

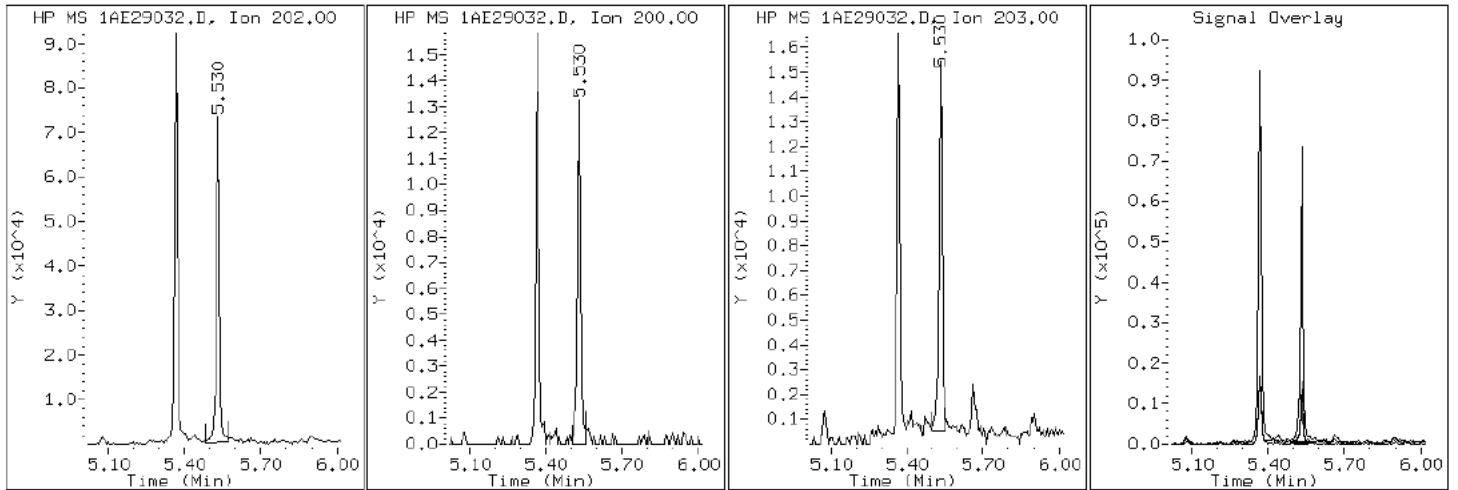
Client ID: CV0992B-CS

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-a

Operator: SCC

17 Pyrene

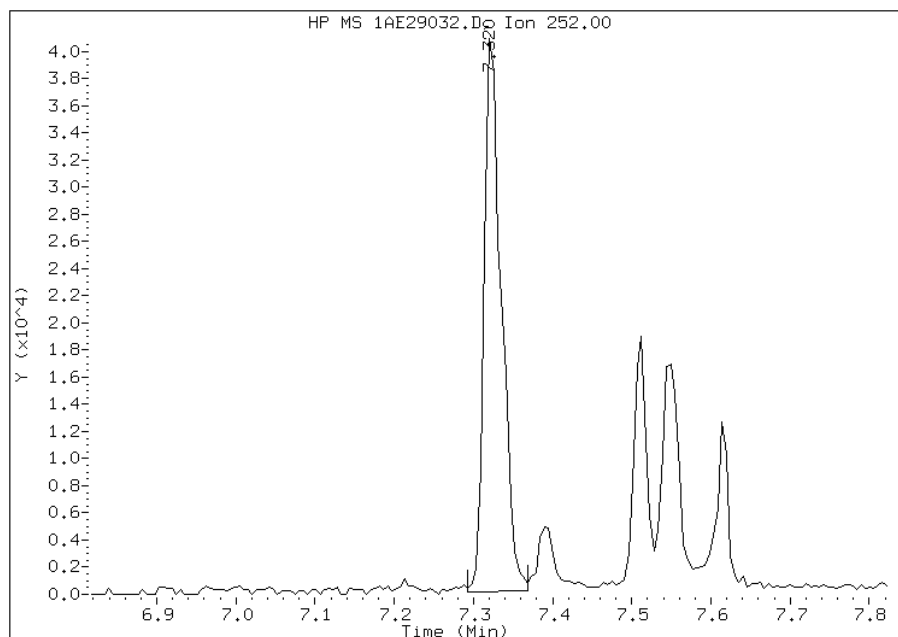


Manual Integration Report

Data File: 1AE29032.D
Inj. Date and Time: 29-MAY-2013 22:00
Instrument ID: BSMA5973.i
Client ID: CV0992B-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/30/2013

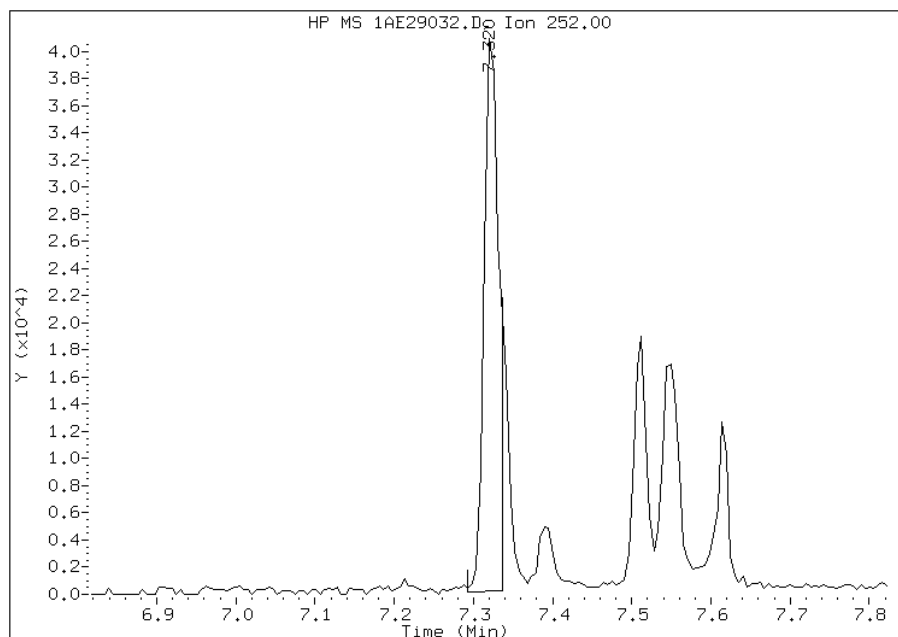
Processing Integration Results

RT: 7.32
Response: 61129
Amount: 3
Conc: 1366



Manual Integration Results

RT: 7.32
Response: 51864
Amount: 3
Conc: 1172



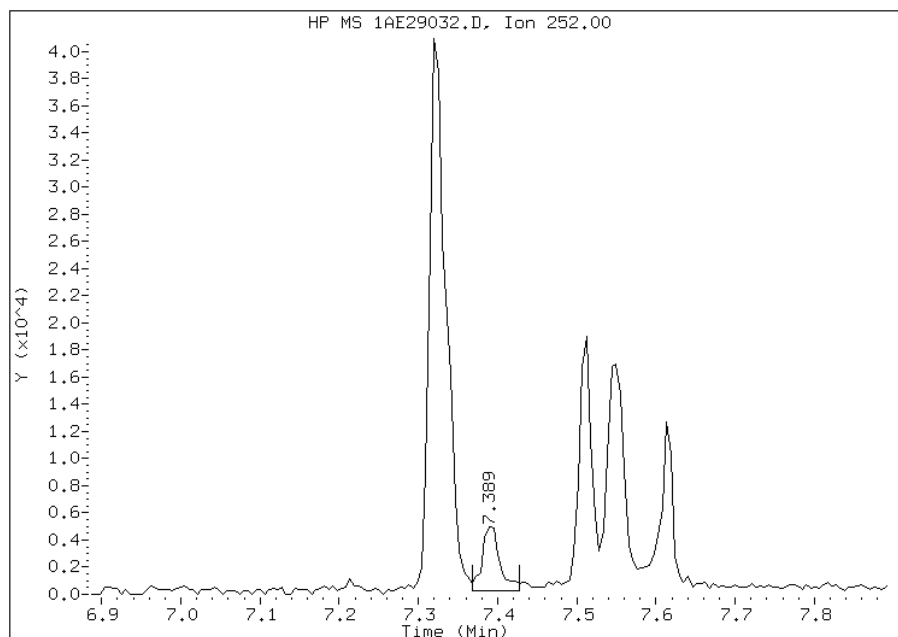
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29032.D
Inj. Date and Time: 29-MAY-2013 22:00
Instrument ID: BSMA5973.i
Client ID: CV0992B-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

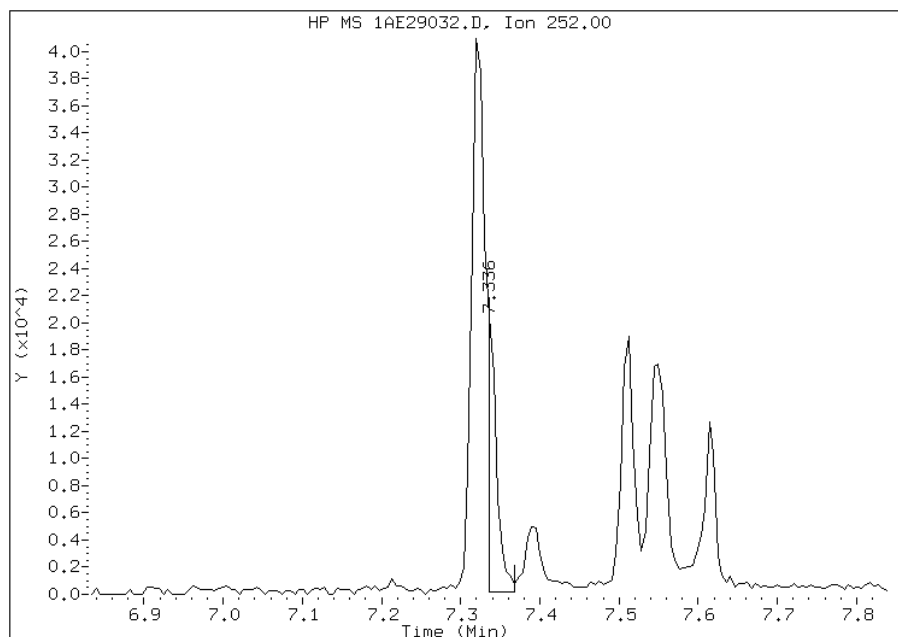
Processing Integration Results

RT: 7.39
Response: 7404
Amount: 0
Conc: 140



Manual Integration Results

RT: 7.34
Response: 15901
Amount: 1
Conc: 302



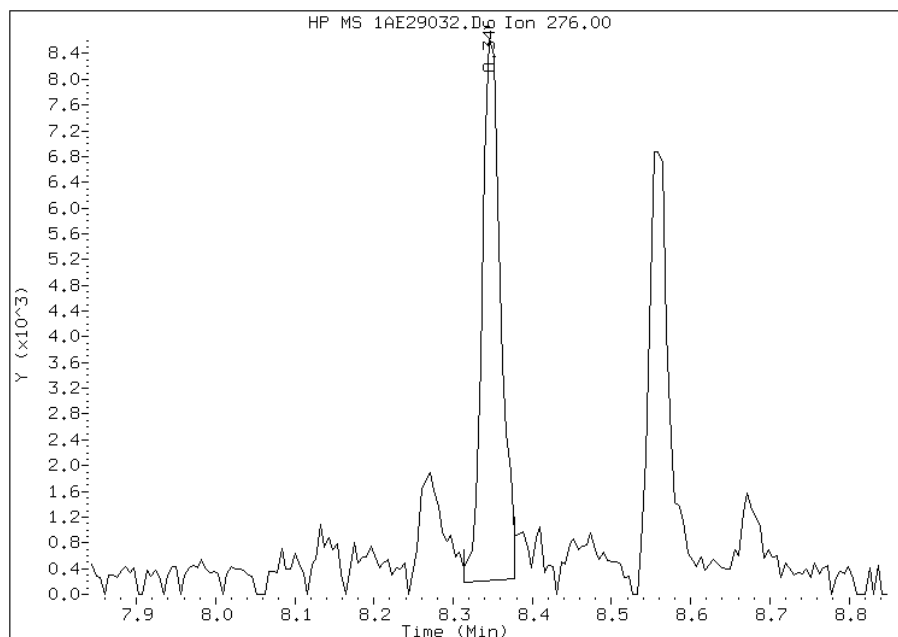
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29032.D
Inj. Date and Time: 29-MAY-2013 22:00
Instrument ID: BSMA5973.i
Client ID: CV0992B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

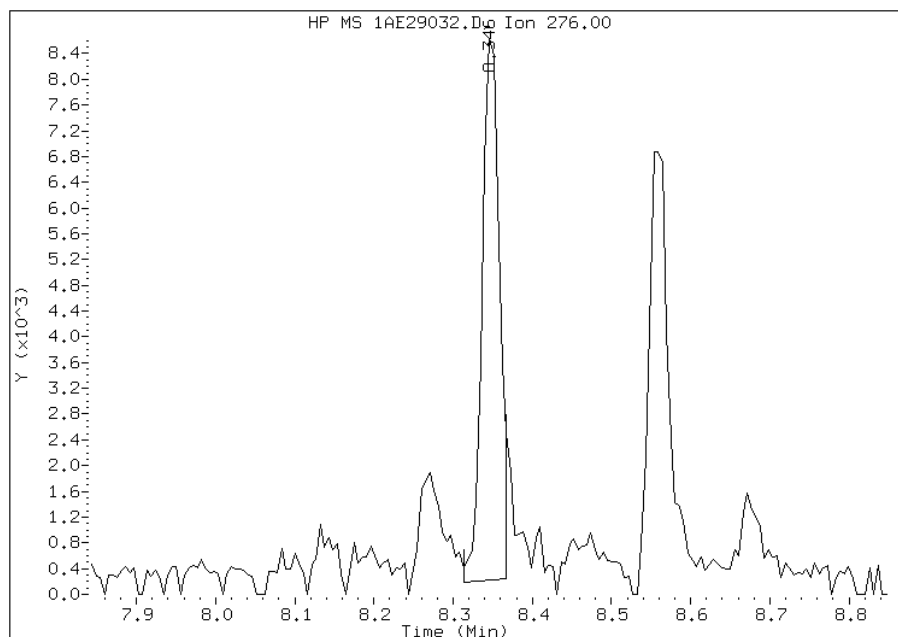
Processing Integration Results

RT: 8.35
Response: 13627
Amount: 1
Conc: 411



Manual Integration Results

RT: 8.35
Response: 12880
Amount: 1
Conc: 392



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV1034A-CS Lab Sample ID: 680-90686-8
 Matrix: Solid Lab File ID: 1DF05016.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 08:25
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.98(g) Date Analyzed: 06/05/2013 16:48
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 14.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	440	U	440	88
208-96-8	Acenaphthylene	59	J	180	22
120-12-7	Anthracene	110		37	19
56-55-3	Benzo[a]anthracene	340		35	17
50-32-8	Benzo[a]pyrene	410		46	23
205-99-2	Benzo[b]fluoranthene	600		54	27
191-24-2	Benzo[g,h,i]perylene	340		88	19
207-08-9	Benzo[k]fluoranthene	220		35	16
218-01-9	Chrysene	490		40	20
53-70-3	Dibenz(a,h)anthracene	110		88	18
206-44-0	Fluoranthene	620		88	18
86-73-7	Fluorene	38	J	88	18
193-39-5	Indeno[1,2,3-cd]pyrene	310		88	31
90-12-0	1-Methylnaphthalene	100	J	180	19
91-57-6	2-Methylnaphthalene	170	J	180	31
91-20-3	Naphthalene	130	J	180	19
85-01-8	Phenanthrene	430		35	17
129-00-0	Pyrene	530		88	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05016.D
 Lab Smp Id: 680-90686-A-8-A Client Smp ID: CV1034A-CS
 Inj Date : 05-JUN-2013 16:48
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-8-a
 Misc Info : 680-90686-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 16
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.980	Weight Extracted
M	14.806	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.267	6.265	(1.000)	3307050	40.0000	
* 7 Acenaphthene-d10	164	7.936	7.934	(1.000)	1769336	40.0000	
* 11 Phenanthrene-d10	188	9.193	9.191	(1.000)	2812396	40.0000	
\$ 15 o-Terphenyl	230	9.504	9.503	(1.034)	88176	2.14007	630
* 19 Chrysene-d12	240	11.555	11.553	(1.000)	2587198	40.0000	
* 24 Perylene-d12	264	13.464	13.457	(1.000)	2983248	40.0000	
2 Naphthalene	128	6.285	6.289	(1.003)	36452	0.44697	130
3 2-Methylnaphthalene	142	6.984	6.988	(1.114)	29677	0.57152	170
4 1-Methylnaphthalene	142	7.078	7.076	(1.129)	18827	0.35218	100
5 1,1'-Biphenyl	154	7.424	7.423	(0.936)	6759	0.11307	33
6 Acenaphthylene	152	7.806	7.811	(0.984)	14791	0.20162	59
9 Dibenzofuran	168	8.112	8.110	(1.022)	13205	0.20579	60
10 Fluorene	166	8.406	8.404	(1.059)	6834	0.12979	38
12 Phenanthrene	178	9.210	9.215	(1.002)	112743	1.48017	430

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.252	9.256 (1.006)		28246	0.38219	110
16 Fluoranthene	202	10.192	10.196 (1.109)		165660	2.12593	620
17 Pyrene	202	10.380	10.384 (0.898)		137219	1.81154	530
18 Benzo(a)anthracene	228	11.537	11.542 (0.998)		88483	1.15239	340
20 Chrysene	228	11.578	11.583 (1.002)		115745	1.67404	490
21 Benzo(b)fluoranthene	252	12.894	12.893 (0.958)		153143	2.04909	600
22 Benzo(k)fluoranthene	252	12.930	12.934 (0.960)		58589	0.74860	220
23 Benzo(a)pyrene	252	13.359	13.363 (0.992)		94958	1.38187	410
25 Indeno(1,2,3-cd)pyrene	276	15.098	15.102 (1.121)		70576	1.05819	310(M)
26 Dibenzo(a,h)anthracene	278	15.133	15.137 (1.124)		21055	0.36727	110
27 Benzo(g,h,i)perylene	276	15.568	15.572 (1.156)		77900	1.15000	340

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05016.D

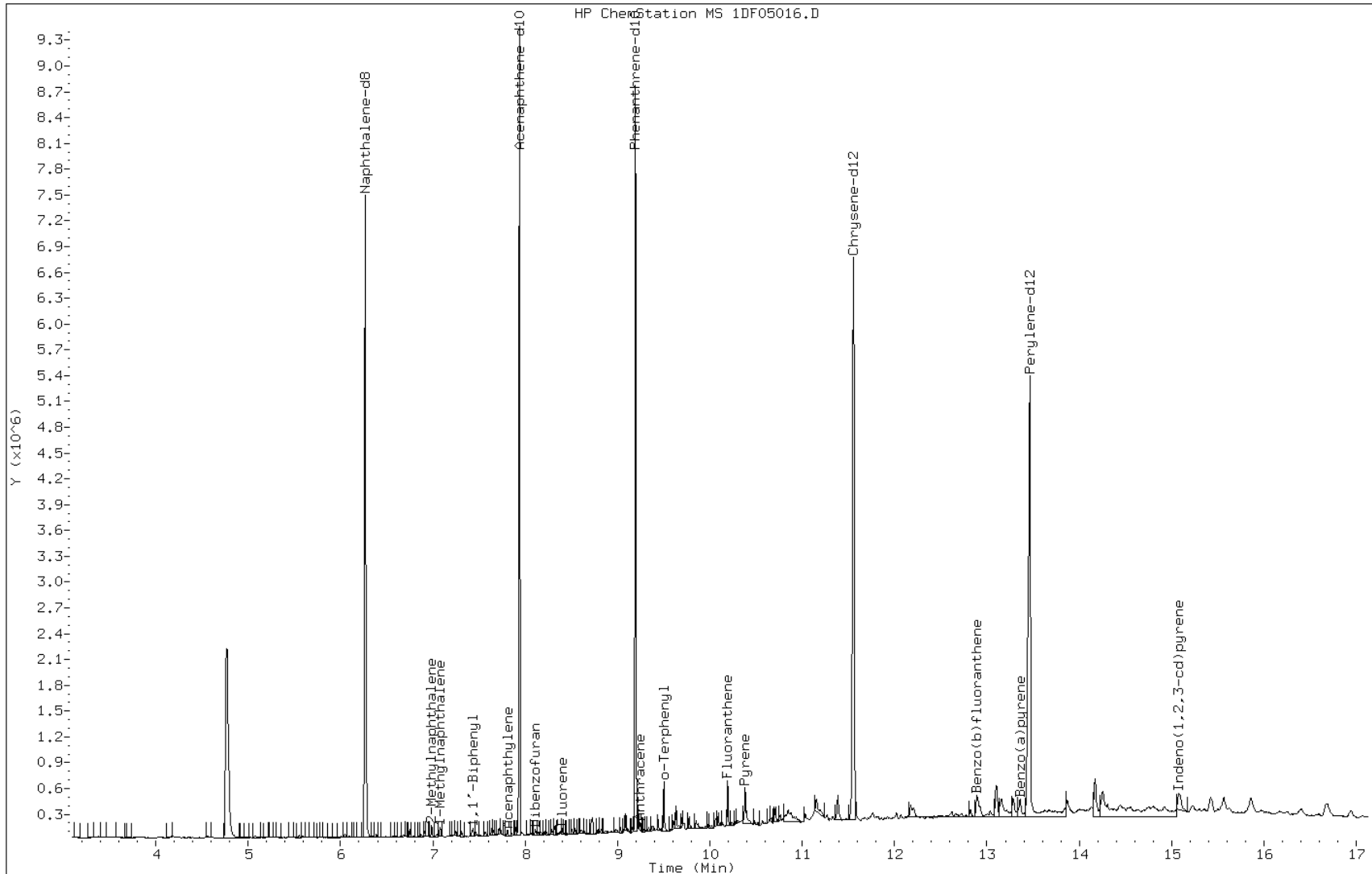
Date: 05-JUN-2013 16:48

Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

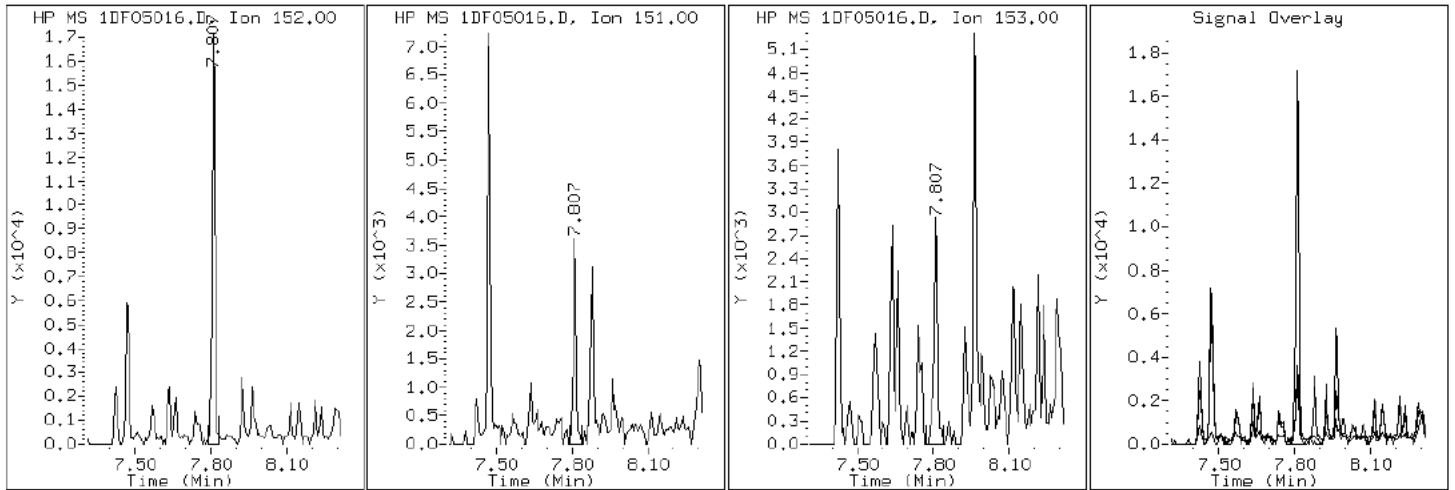
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

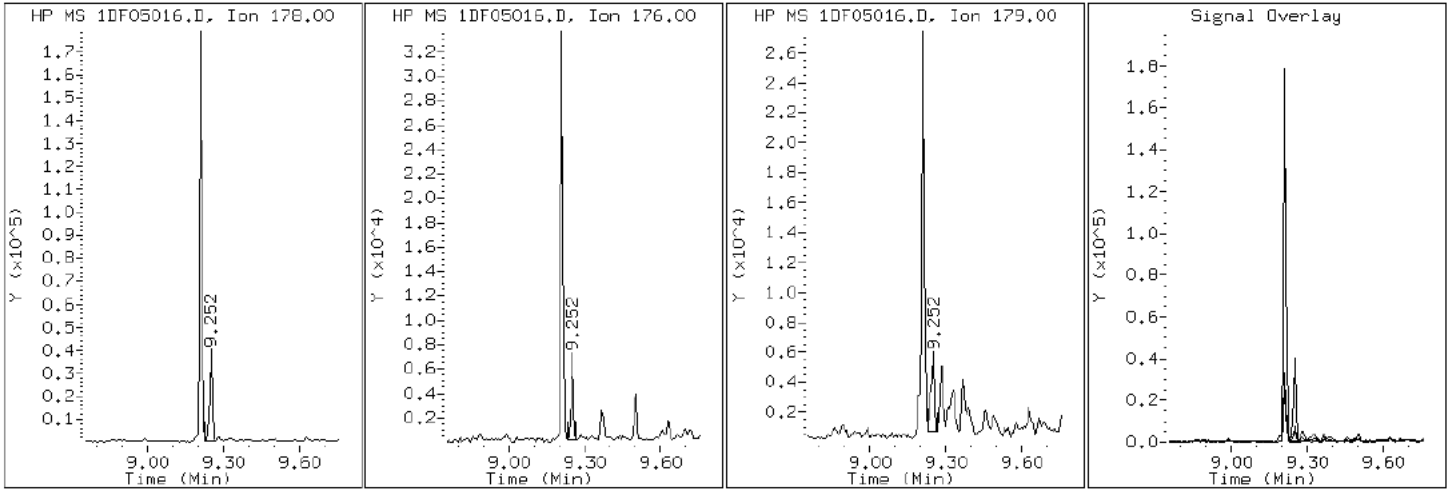
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

13 Anthracene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

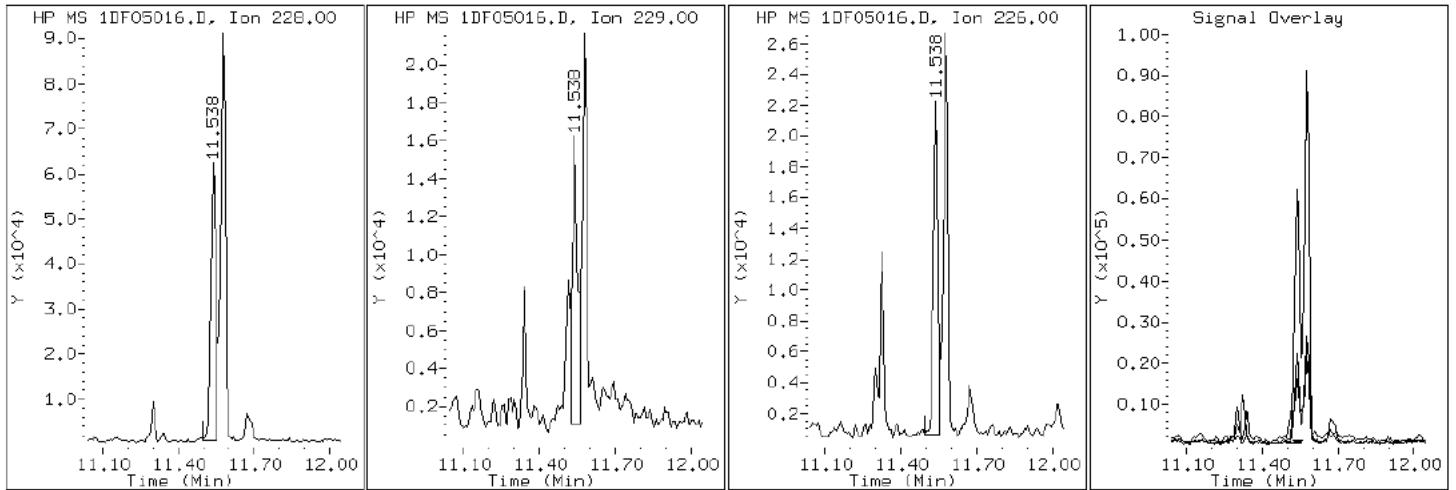
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

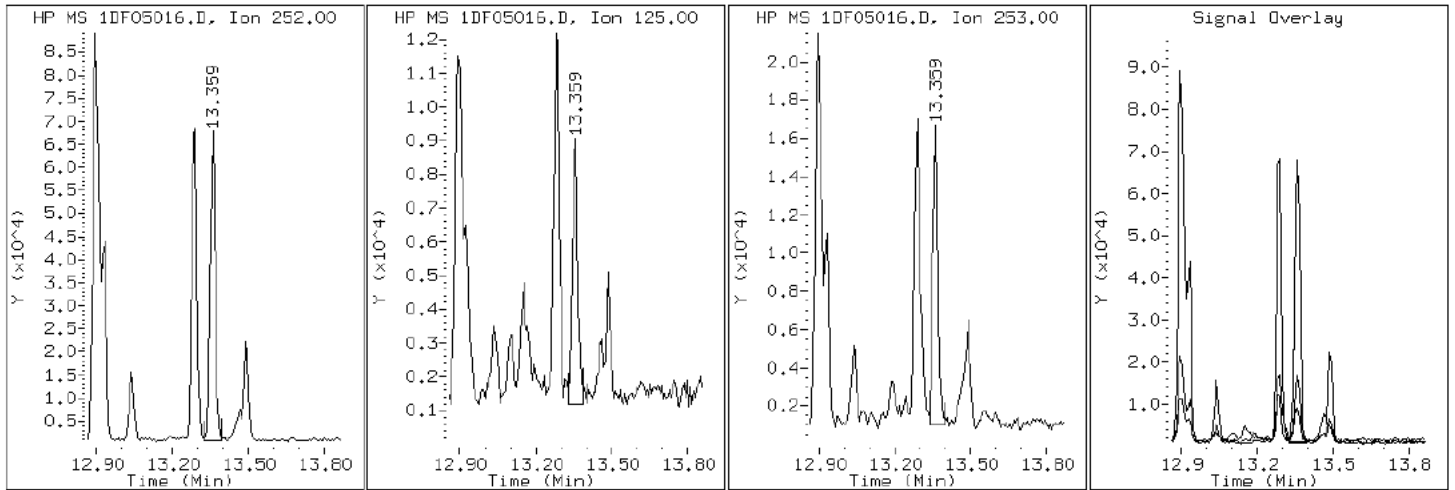
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

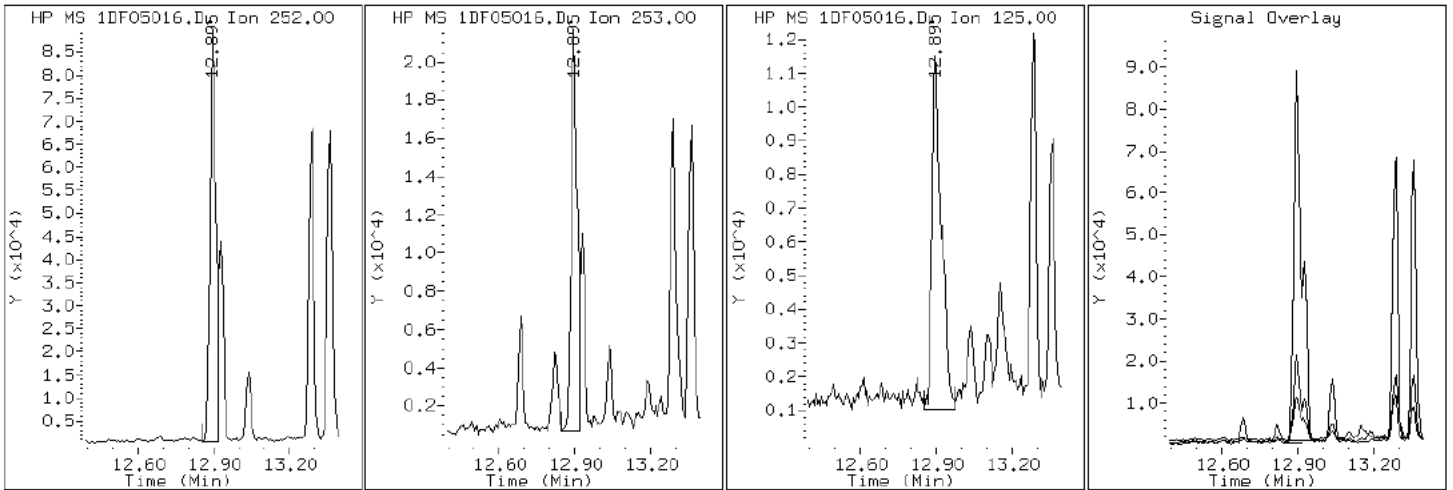
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

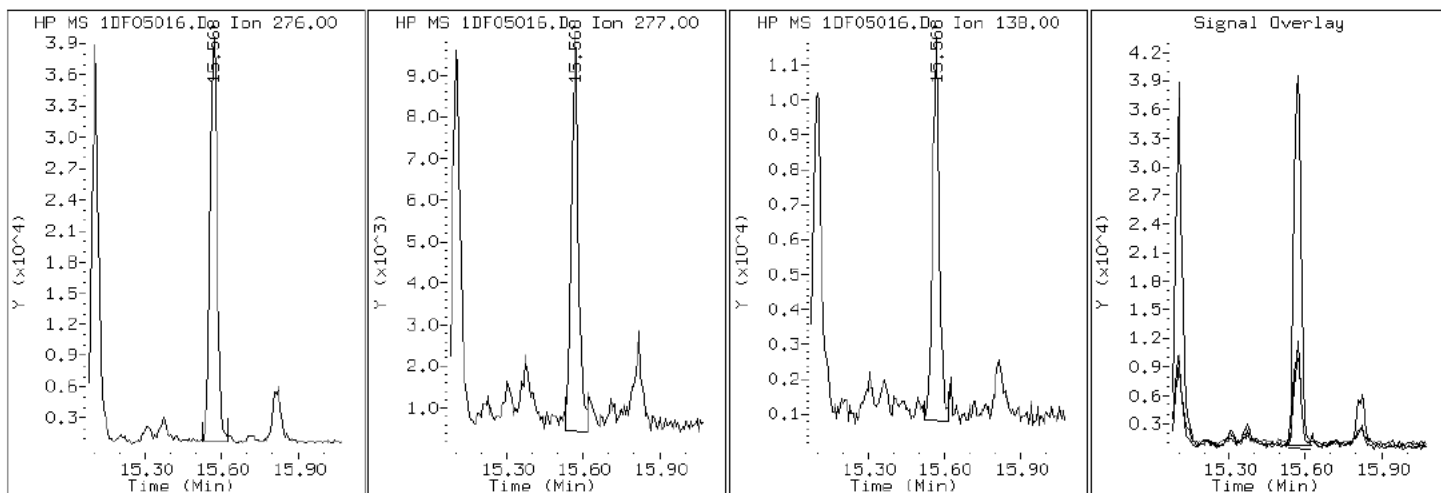
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

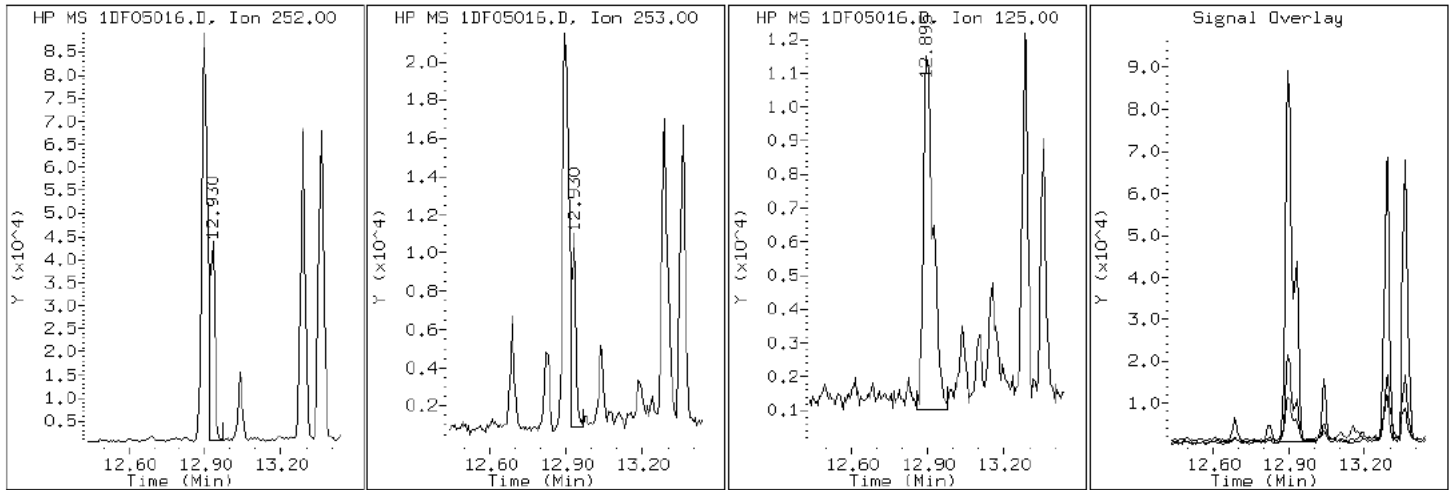
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

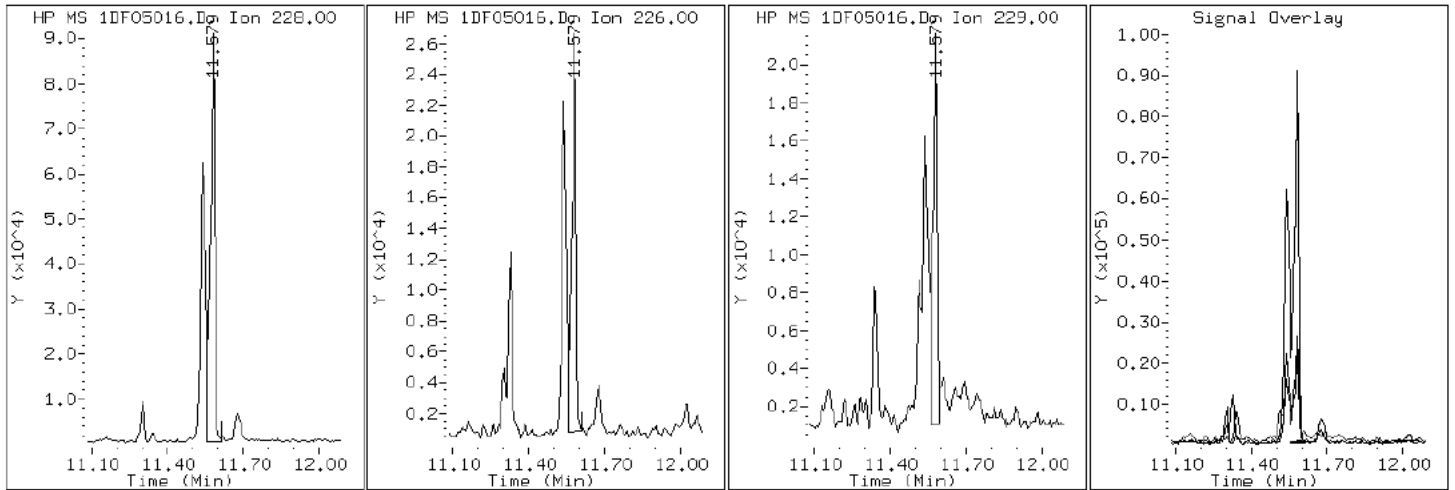
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

20 Chrysene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

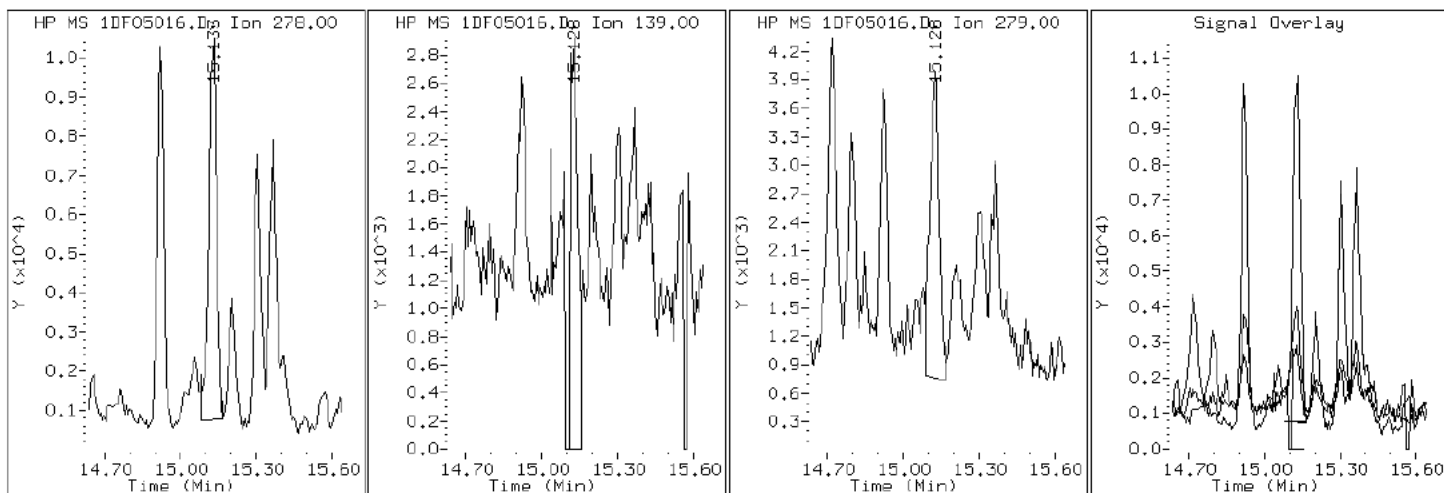
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

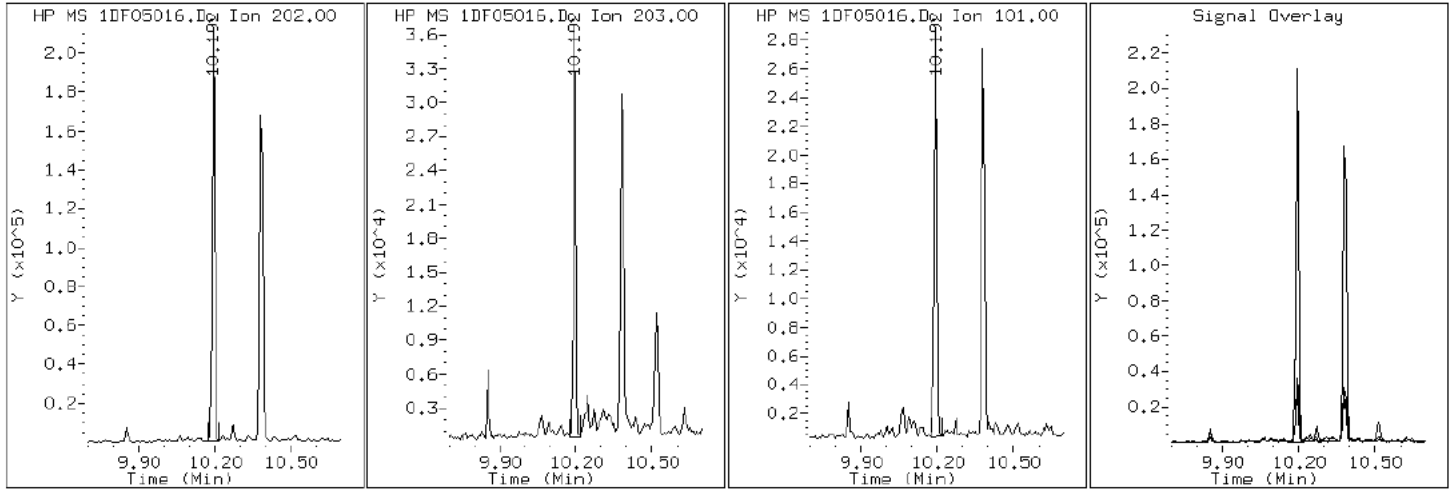
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

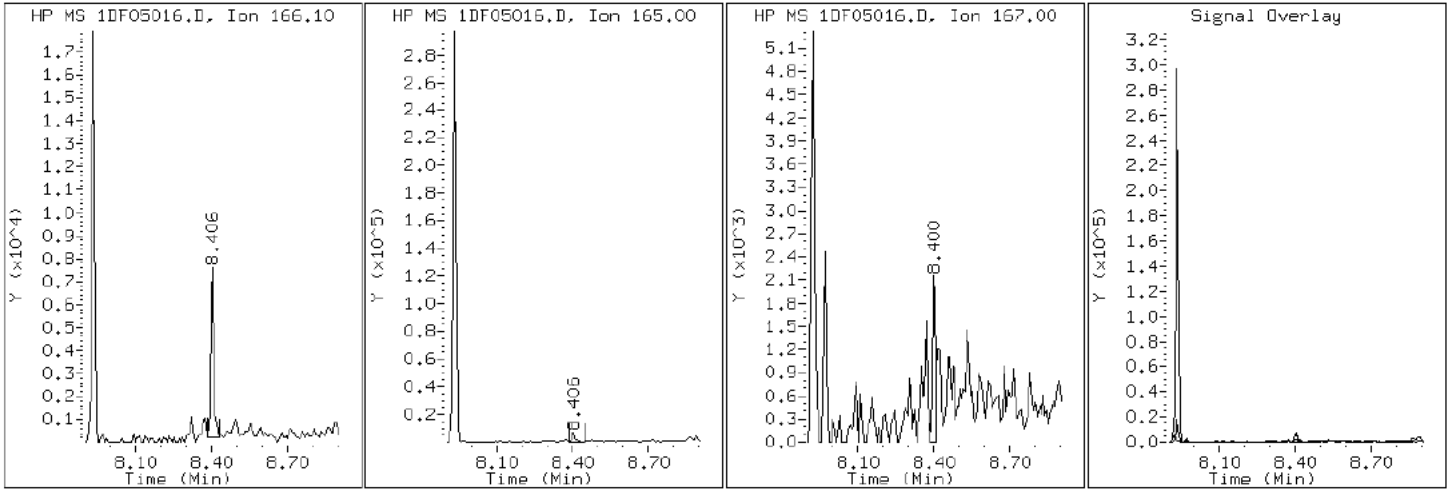
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

10 Fluorene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

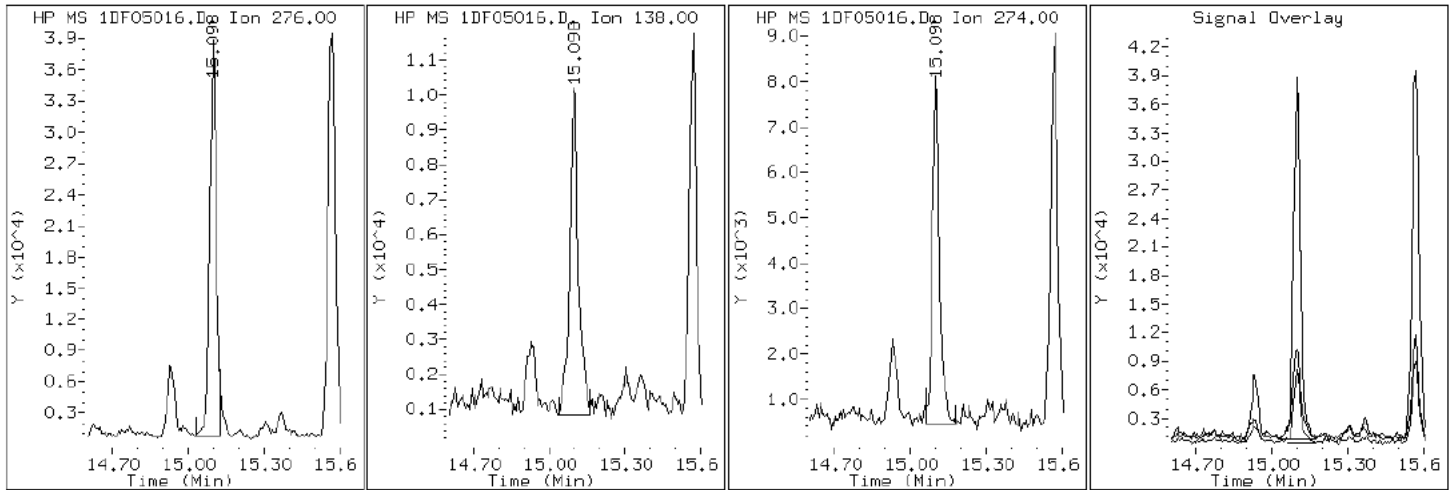
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

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



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

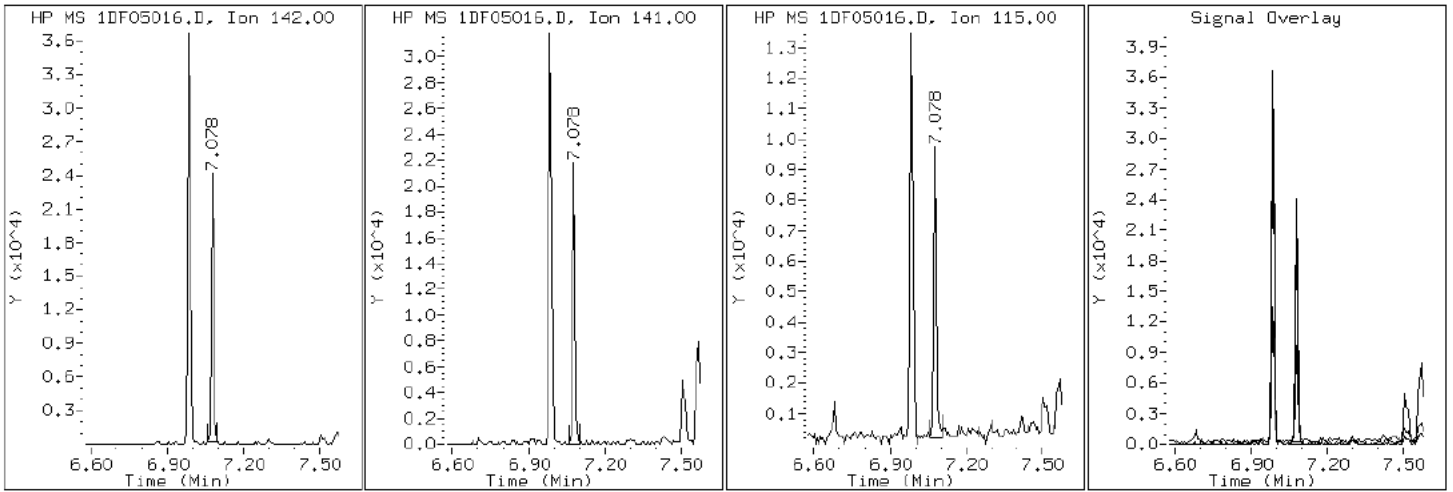
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

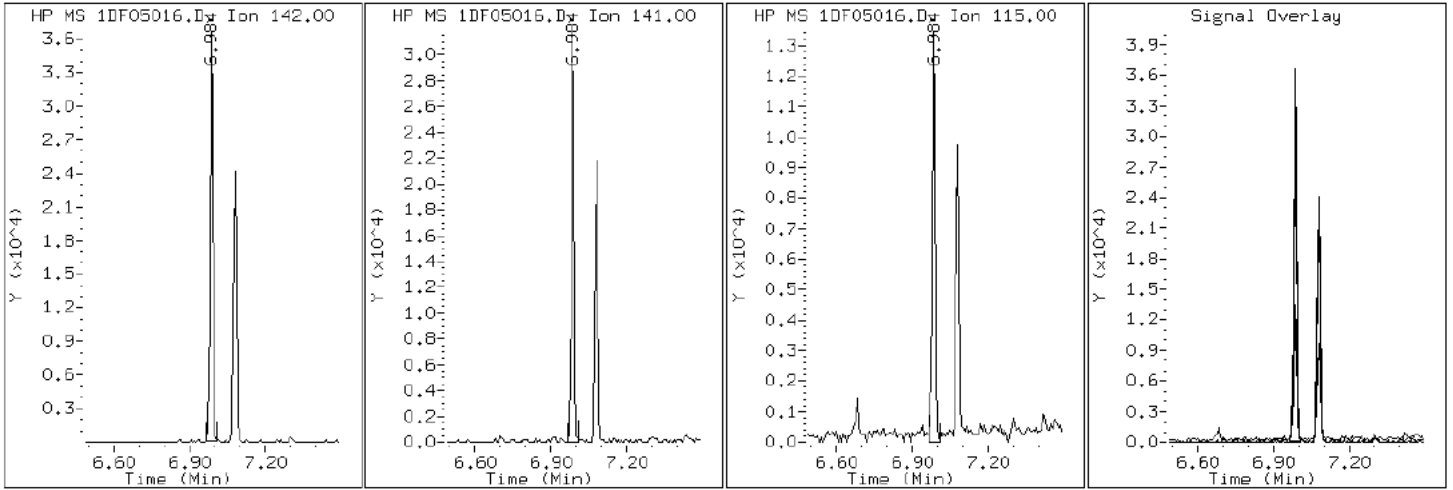
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

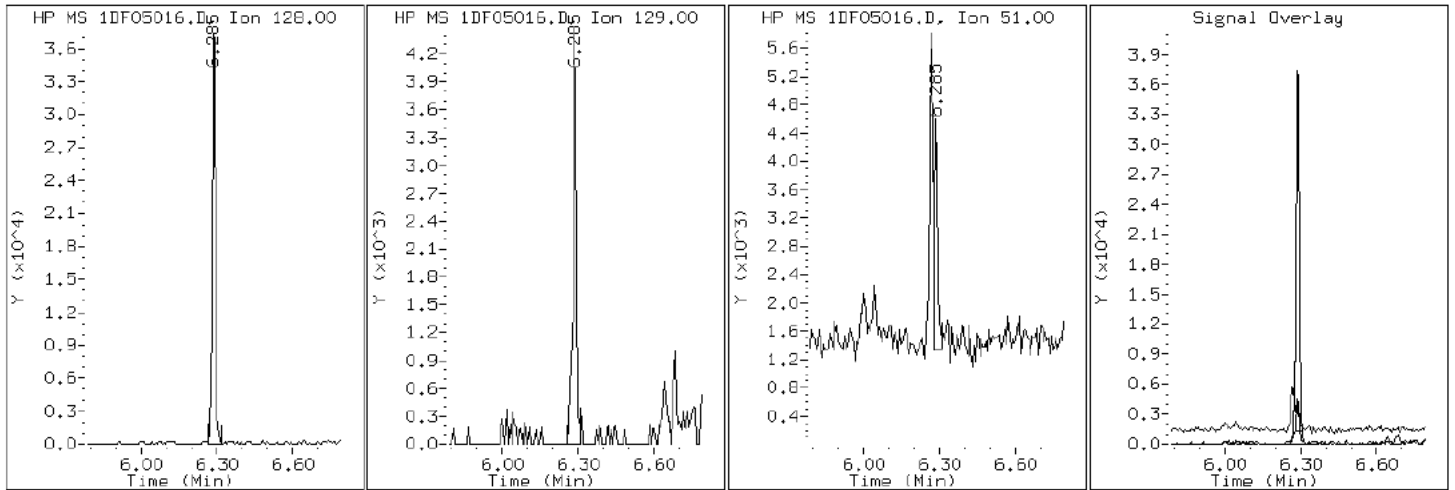
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

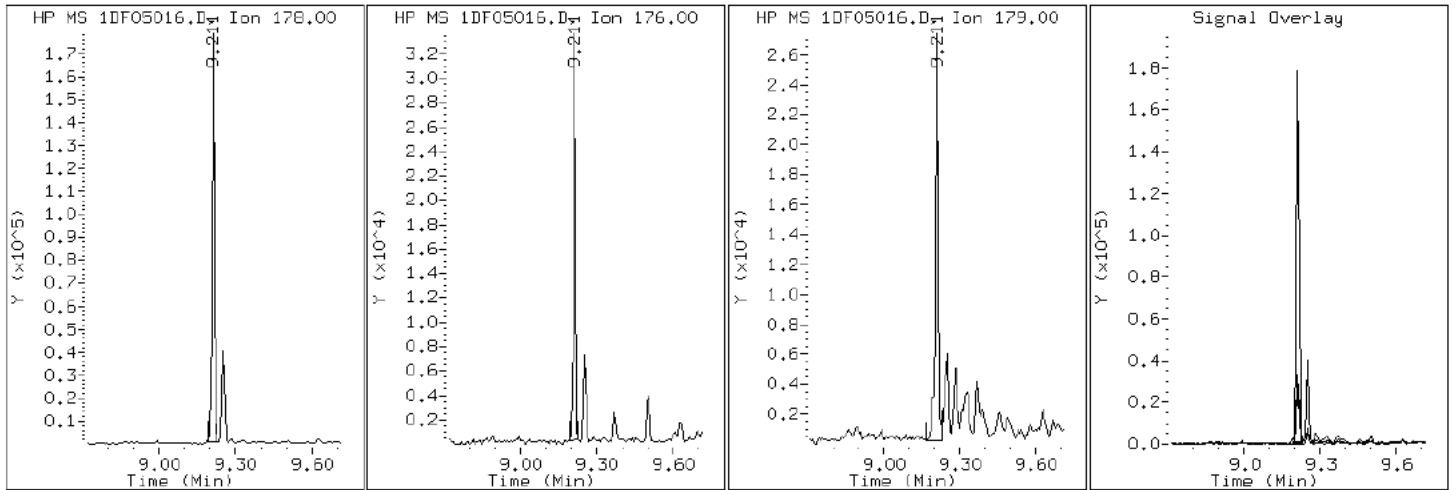
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05016.D

Date: 05-JUN-2013 16:48

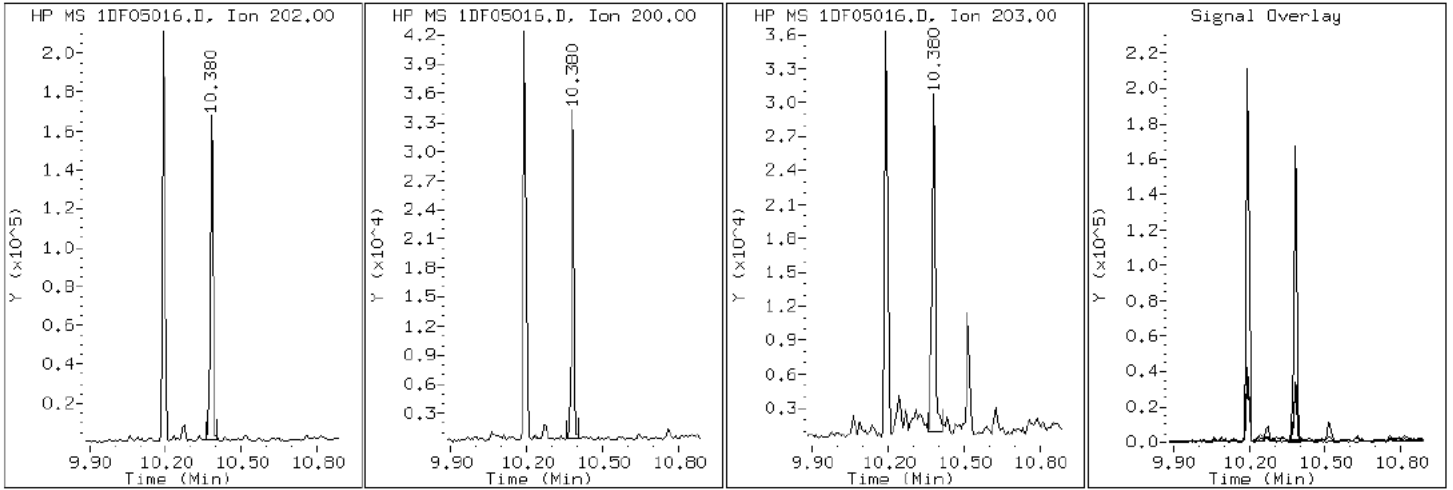
Client ID: CV1034A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-8-a

Operator: SCC

17 Pyrene

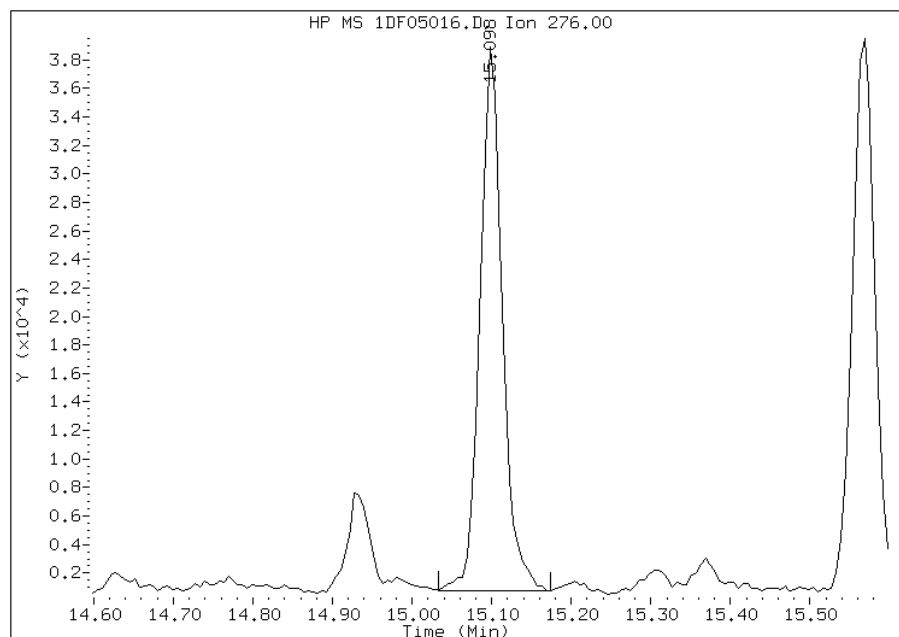


Manual Integration Report

Data File: 1DF05016.D
Inj. Date and Time: 05-JUN-2013 16:48
Instrument ID: BSMSD.i
Client ID: CV1034A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

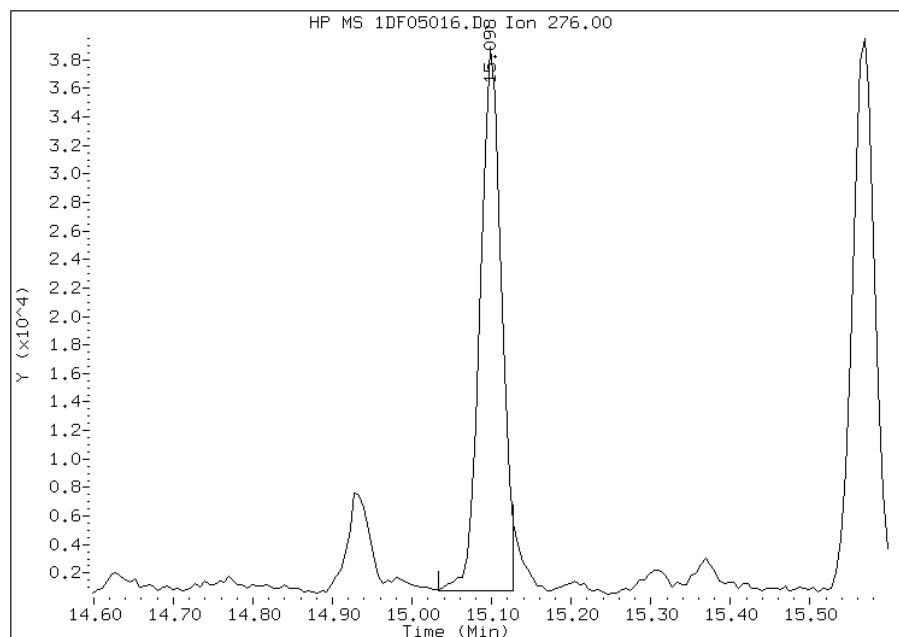
Processing Integration Results

RT: 15.10
Response: 73467
Amount: 1
Conc: 322



Manual Integration Results

RT: 15.10
Response: 70576
Amount: 1
Conc: 311



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:05
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV1034A-CSD Lab Sample ID: 680-90686-9
 Matrix: Solid Lab File ID: 1DF05017.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 08:25
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 14.95(g) Date Analyzed: 06/05/2013 17:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 13.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	93
208-96-8	Acenaphthylene	65	J	190	23
120-12-7	Anthracene	120		39	20
56-55-3	Benzo[a]anthracene	400		37	18
50-32-8	Benzo[a]pyrene	440		48	24
205-99-2	Benzo[b]fluoranthene	690		57	28
191-24-2	Benzo[g,h,i]perylene	340		93	20
207-08-9	Benzo[k]fluoranthene	220		37	17
218-01-9	Chrysene	530		42	21
53-70-3	Dibenz(a,h)anthracene	110		93	19
206-44-0	Fluoranthene	710		93	19
86-73-7	Fluorene	35	J	93	19
193-39-5	Indeno[1,2,3-cd]pyrene	310		93	33
90-12-0	1-Methylnaphthalene	110	J	190	20
91-57-6	2-Methylnaphthalene	160	J	190	33
91-20-3	Naphthalene	130	J	190	20
85-01-8	Phenanthrene	520		37	18
129-00-0	Pyrene	610		93	17

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

TestAmerica Laboratories

Semivolatle 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05017.D
 Lab Smp Id: 680-90686-A-9-A Client Smp ID: CV1034A-CSD
 Inj Date : 05-JUN-2013 17:10
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-9-a
 Misc Info : 680-90686-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 17
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	13.843	% 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		6.269	6.265	(1.000)	3233836	40.0000	
* 7 Acenaphthene-d10	164		7.938	7.934	(1.000)	1750251	40.0000	
* 11 Phenanthrene-d10	188		9.195	9.191	(1.000)	2751522	40.0000	
\$ 15 o-Terphenyl	230		9.501	9.503	(1.033)	82943	2.05760	640
* 19 Chrysene-d12	240		11.557	11.553	(1.000)	2515791	40.0000	
* 24 Perylene-d12	264		13.467	13.457	(1.000)	2919140	40.0000	
2 Naphthalene	128		6.287	6.289	(1.003)	32772	0.41094	130
3 2-Methylnaphthalene	142		6.986	6.988	(1.114)	26524	0.52236	160
4 1-Methylnaphthalene	142		7.080	7.076	(1.129)	18018	0.34468	110
5 1,1'-Biphenyl	154		7.421	7.423	(0.935)	6447	0.10903	34
6 Acenaphthylene	152		7.809	7.811	(0.984)	15182	0.20921	65
9 Dibenzofuran	168		8.108	8.110	(1.021)	11767	0.18538	58
10 Fluorene	166		8.402	8.404	(1.058)	5905	0.11337	35
12 Phenanthrene	178		9.213	9.215	(1.002)	124858	1.67549	520

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.254	9.256	(1.006)	27475	0.37999	120
16 Fluoranthene	202	10.194	10.196	(1.109)	173192	2.27176	700
17 Pyrene	202	10.382	10.384	(0.898)	145031	1.96902	610
18 Benzo(a)anthracene	228	11.540	11.542	(0.998)	95644	1.28101	400
20 Chrysene	228	11.581	11.583	(1.002)	114630	1.70497	530
21 Benzo(b)fluoranthene	252	12.897	12.893	(0.958)	162784	2.22592	690
22 Benzo(k)fluoranthene	252	12.932	12.934	(0.960)	55032	0.71860	220
23 Benzo(a)pyrene	252	13.361	13.363	(0.992)	95296	1.41473	440
25 Indeno(1,2,3-cd)pyrene	276	15.100	15.102	(1.121)	65385	1.00976	310(M)
26 Dibenzo(a,h)anthracene	278	15.130	15.137	(1.123)	19446	0.35070	110
27 Benzo(g,h,i)perylene	276	15.570	15.572	(1.156)	72220	1.08957	340

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05017.D

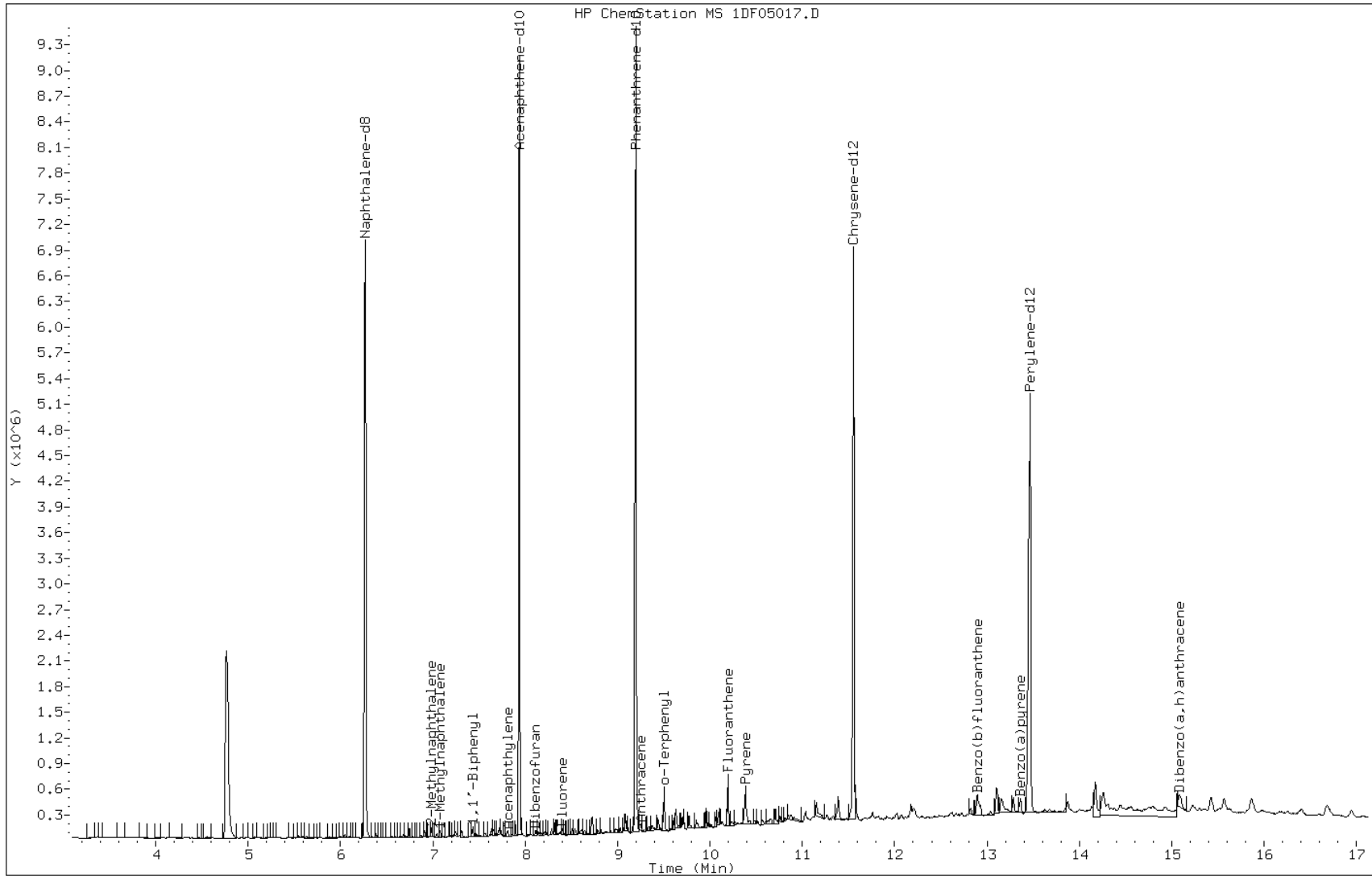
Date: 05-JUN-2013 17:10

Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

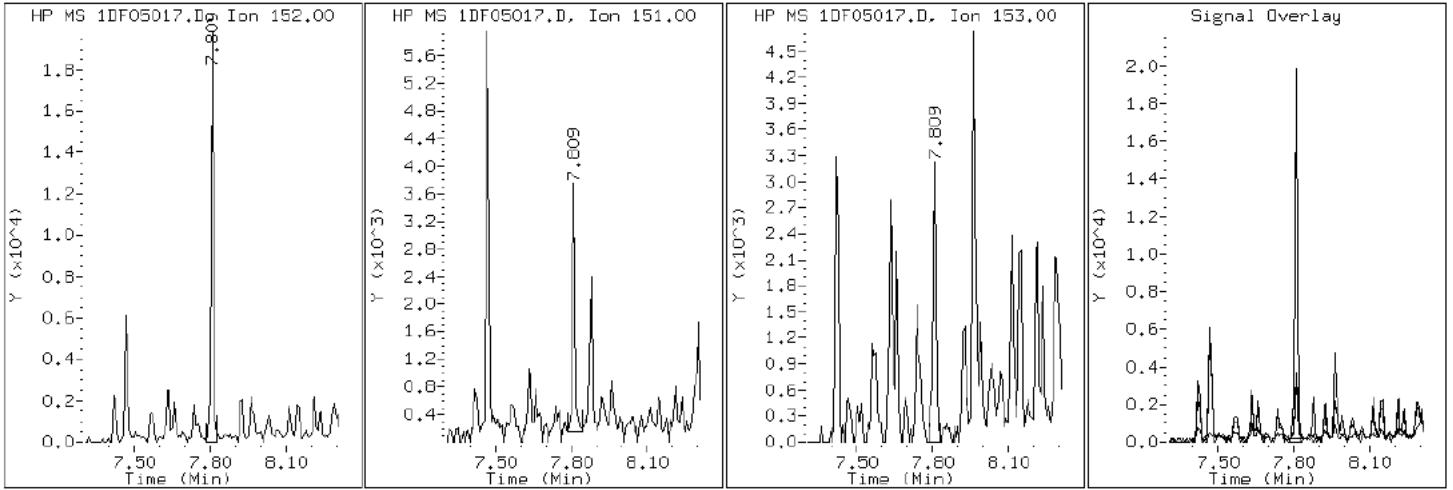
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

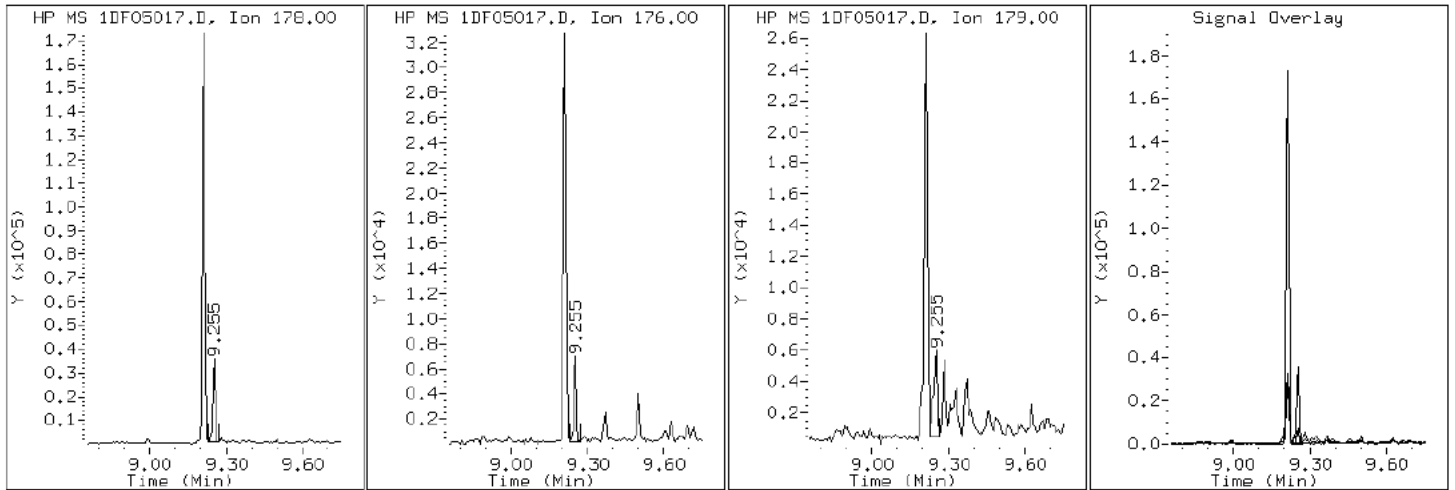
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

13 Anthracene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

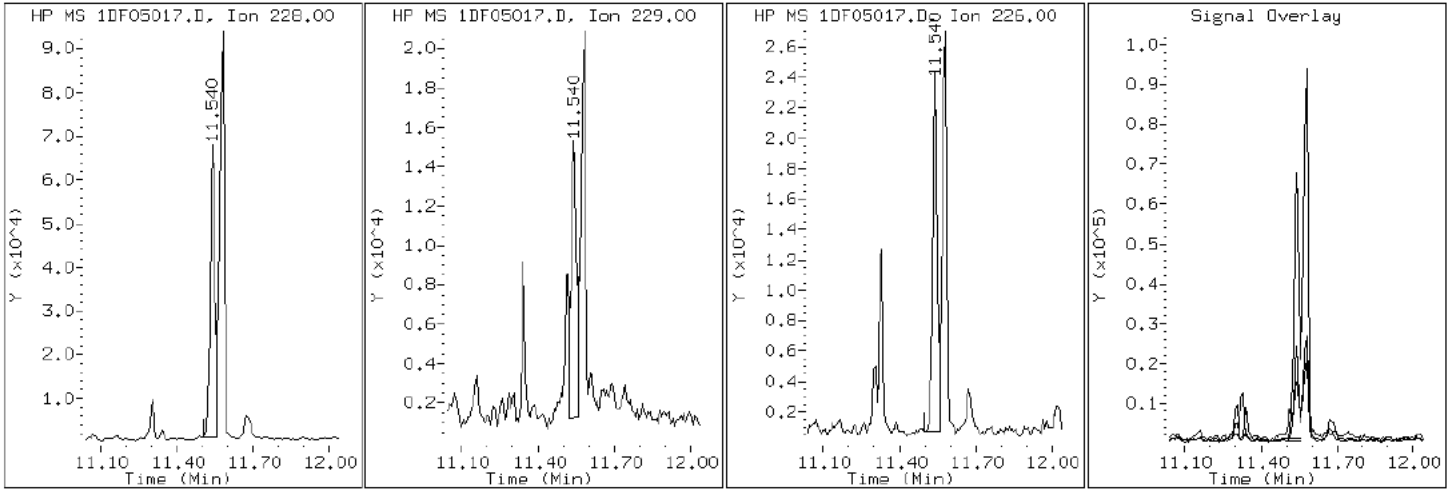
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

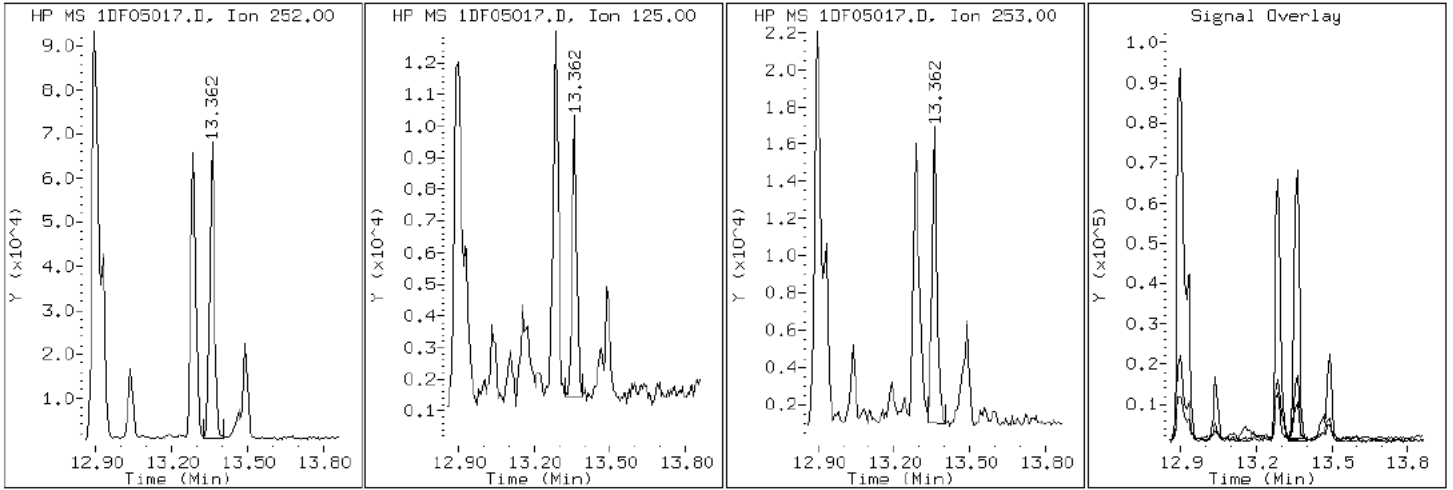
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

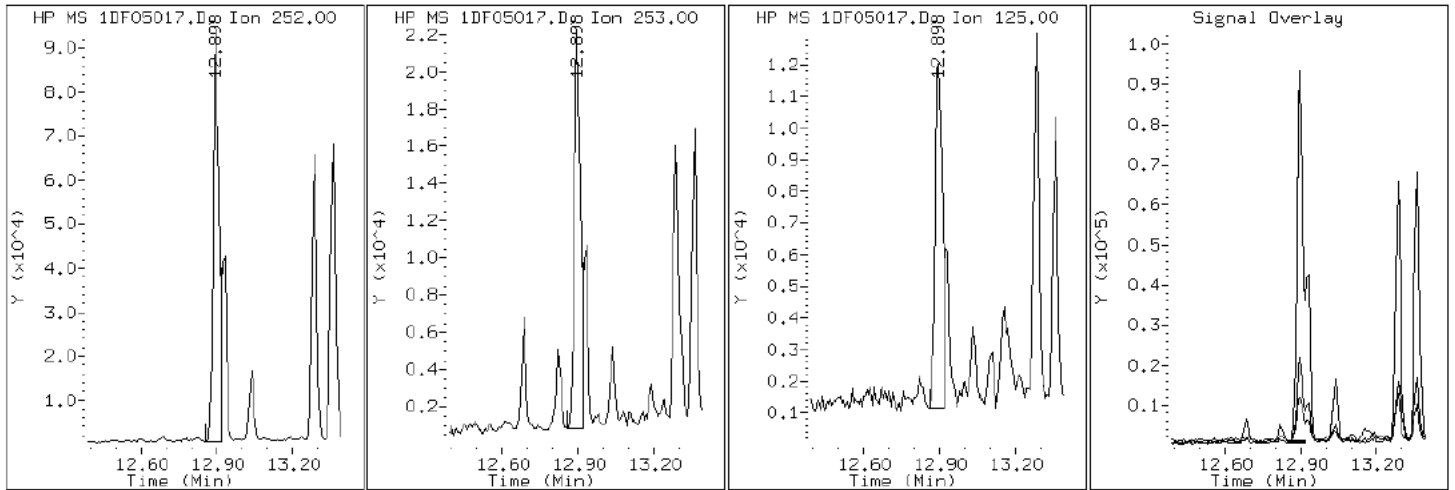
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

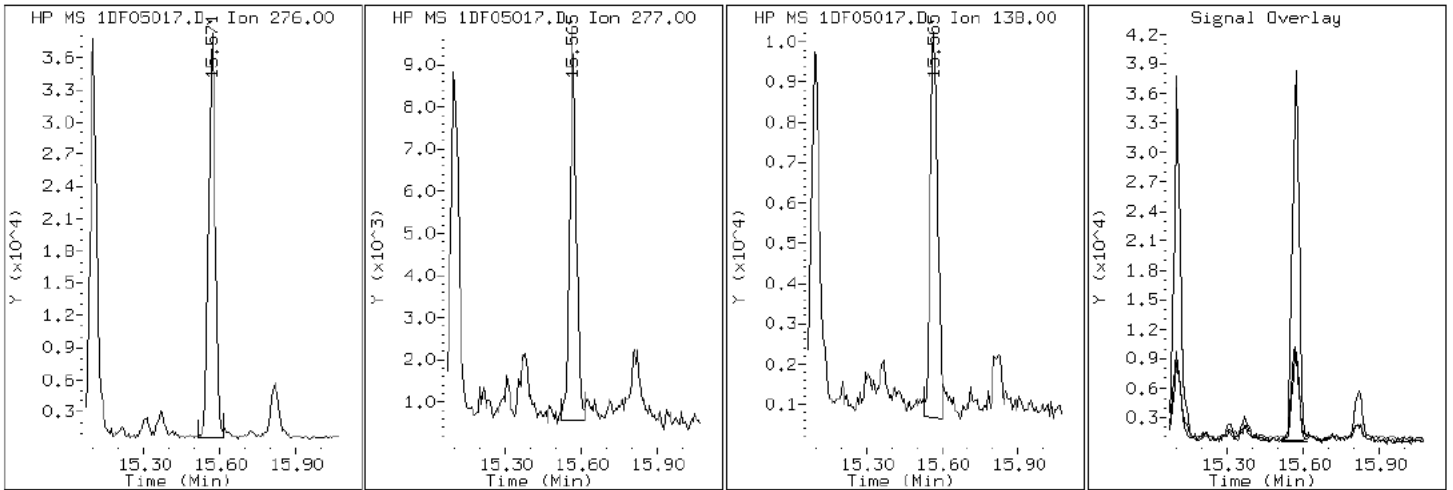
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

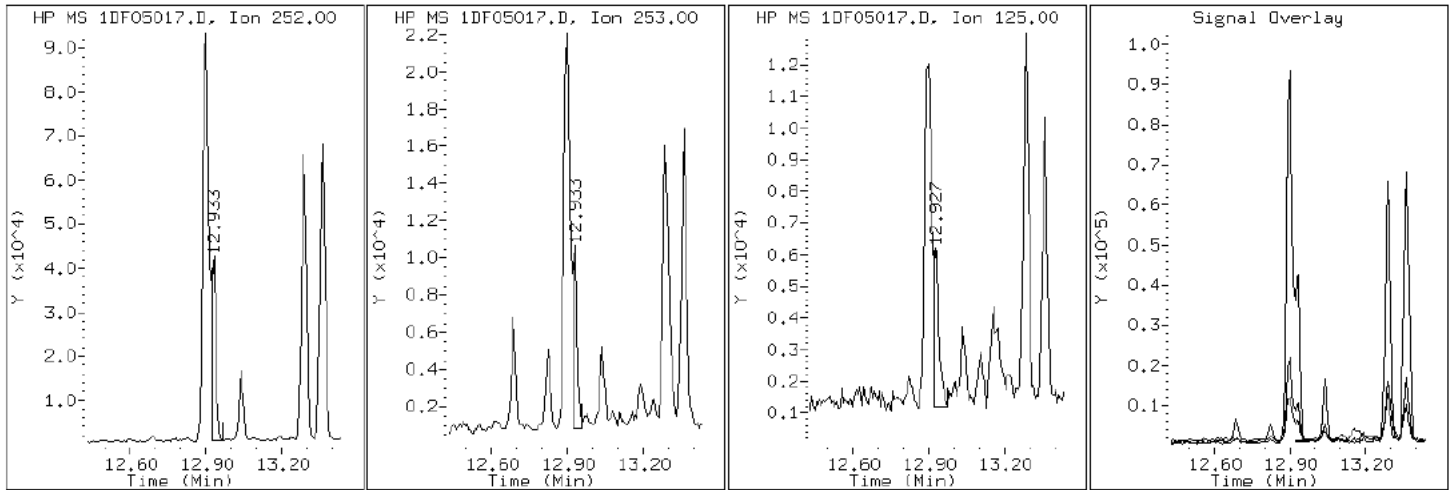
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

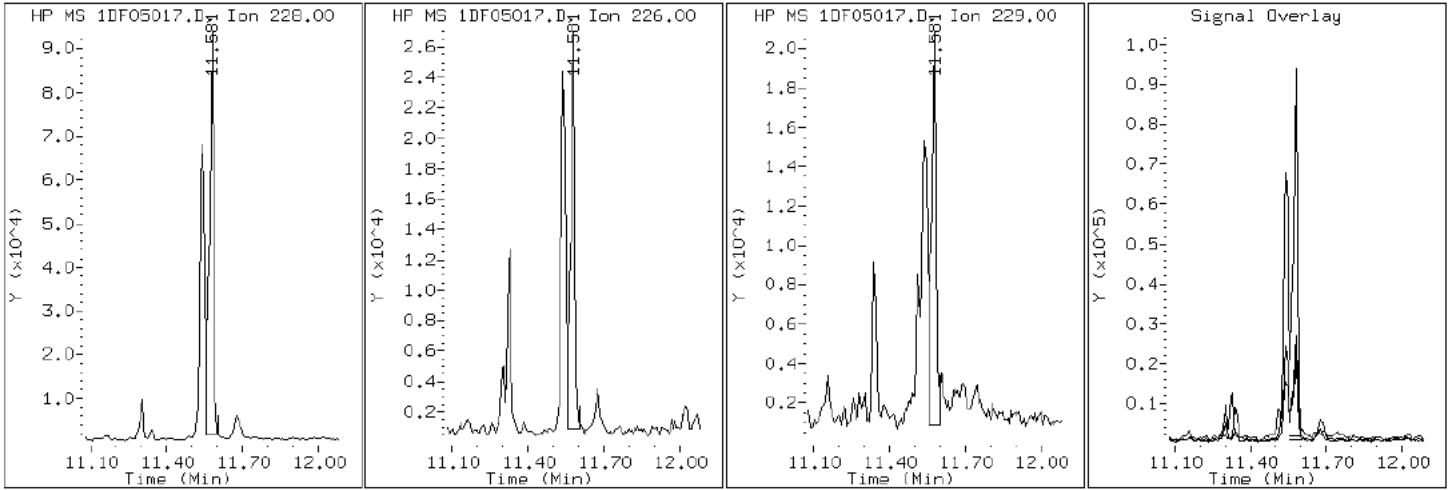
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

20 Chrysene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

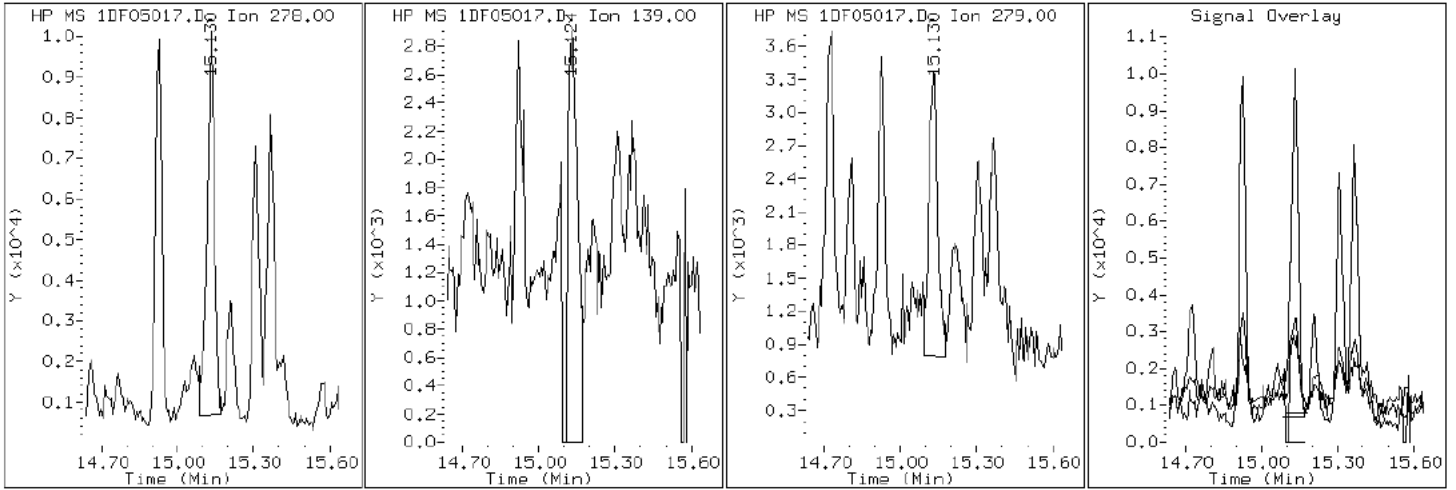
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

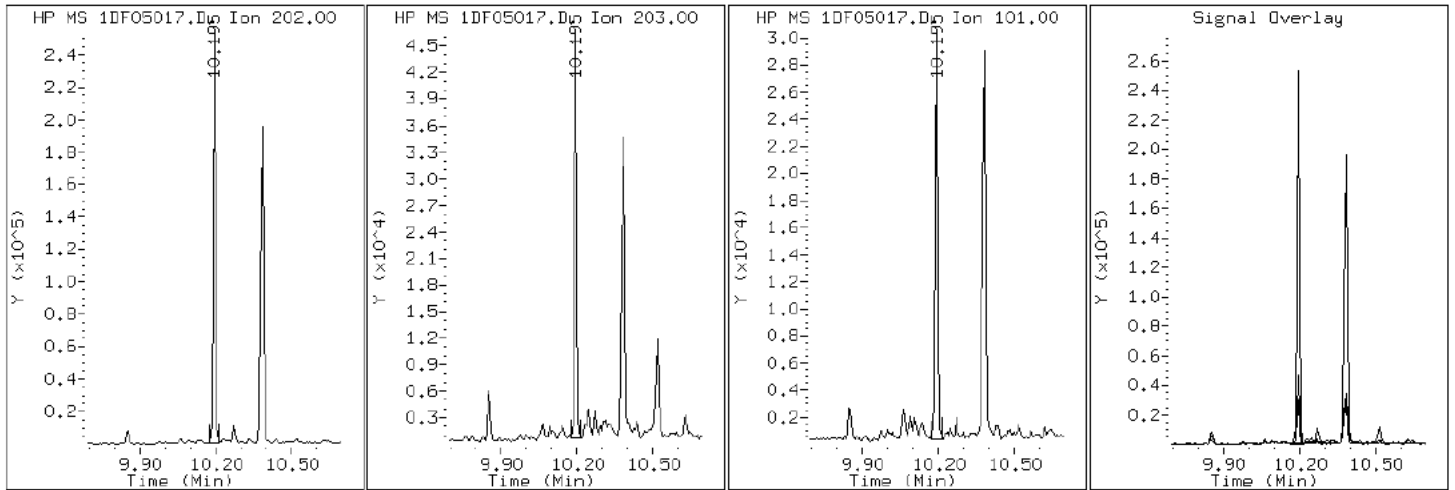
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

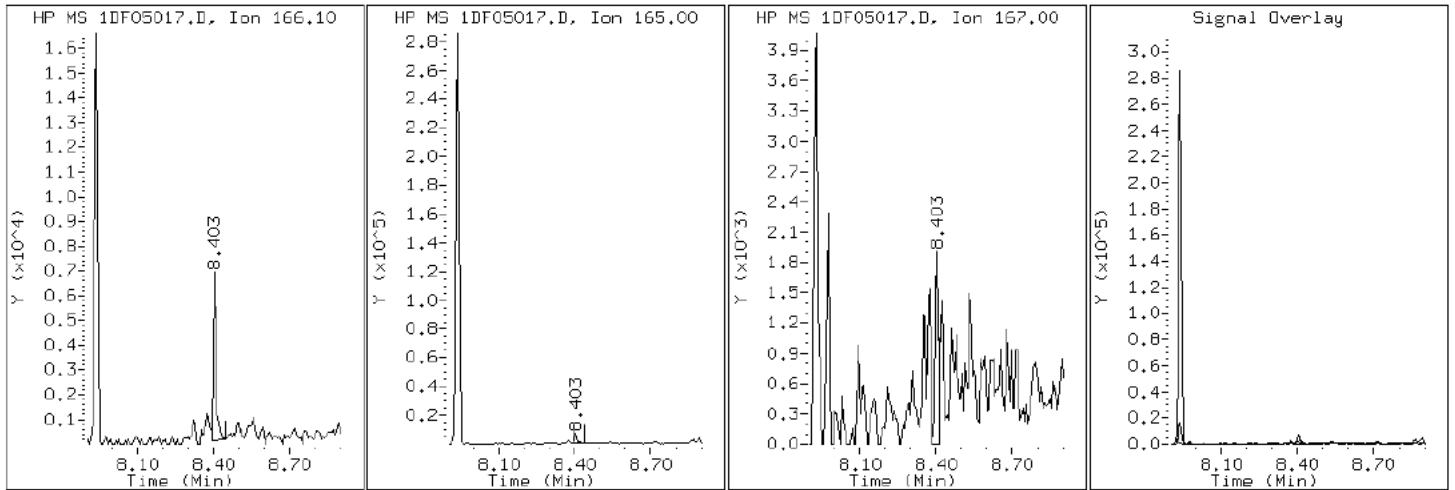
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

10 Fluorene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

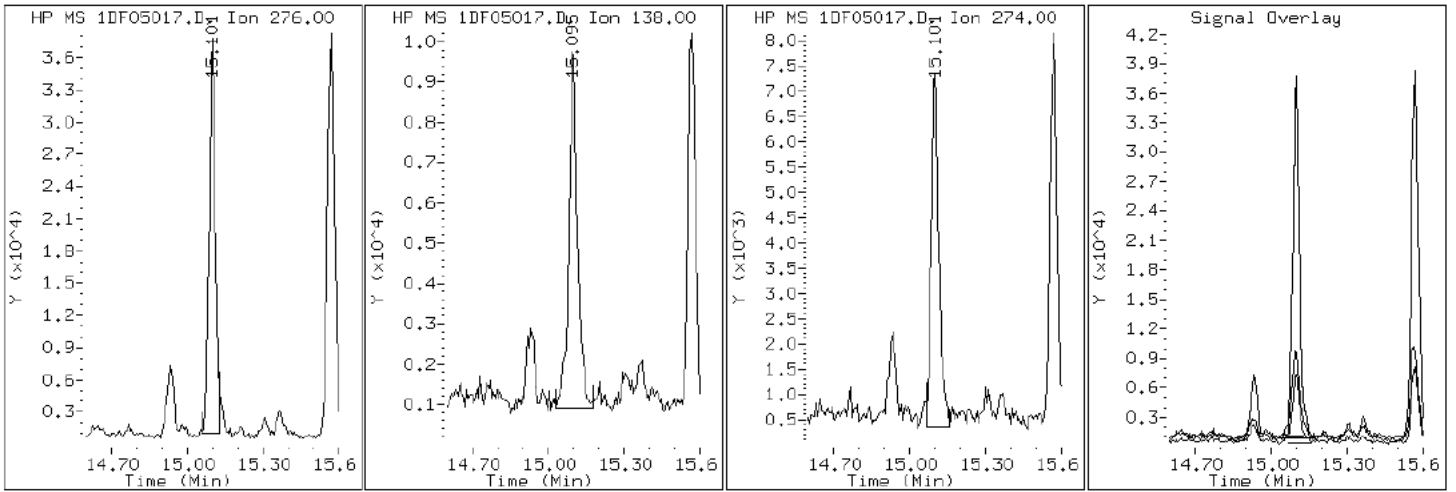
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

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



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

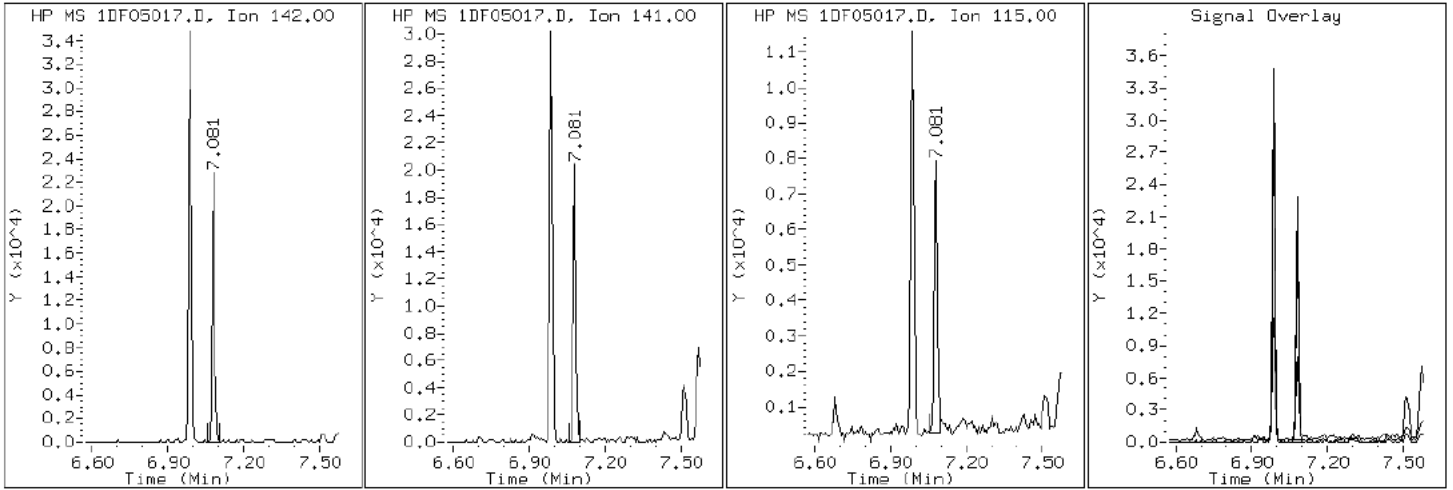
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

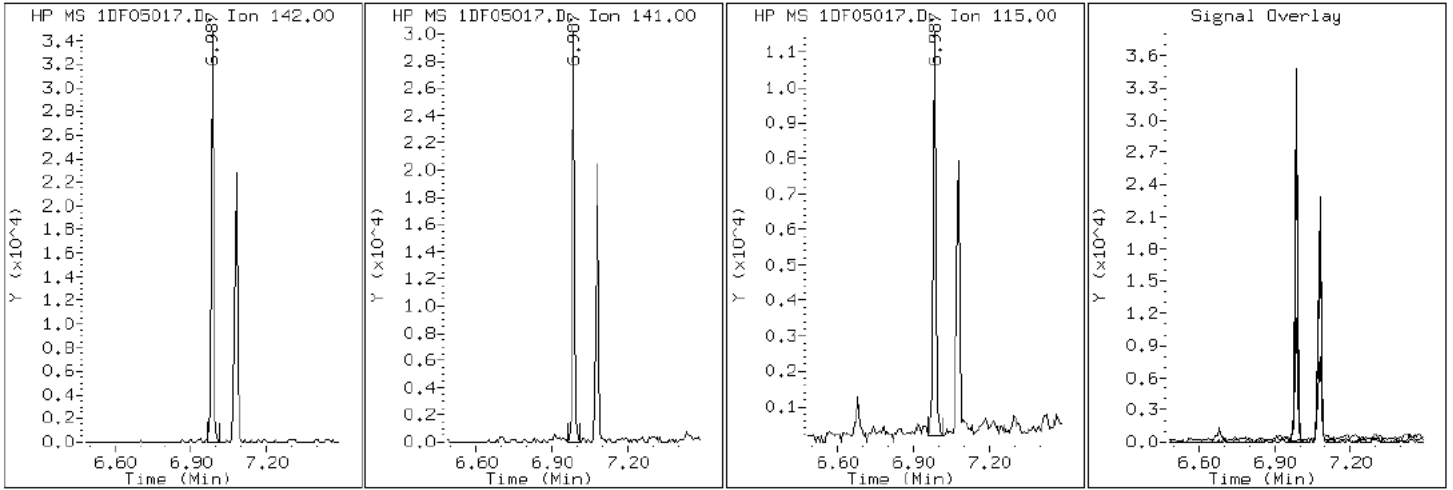
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

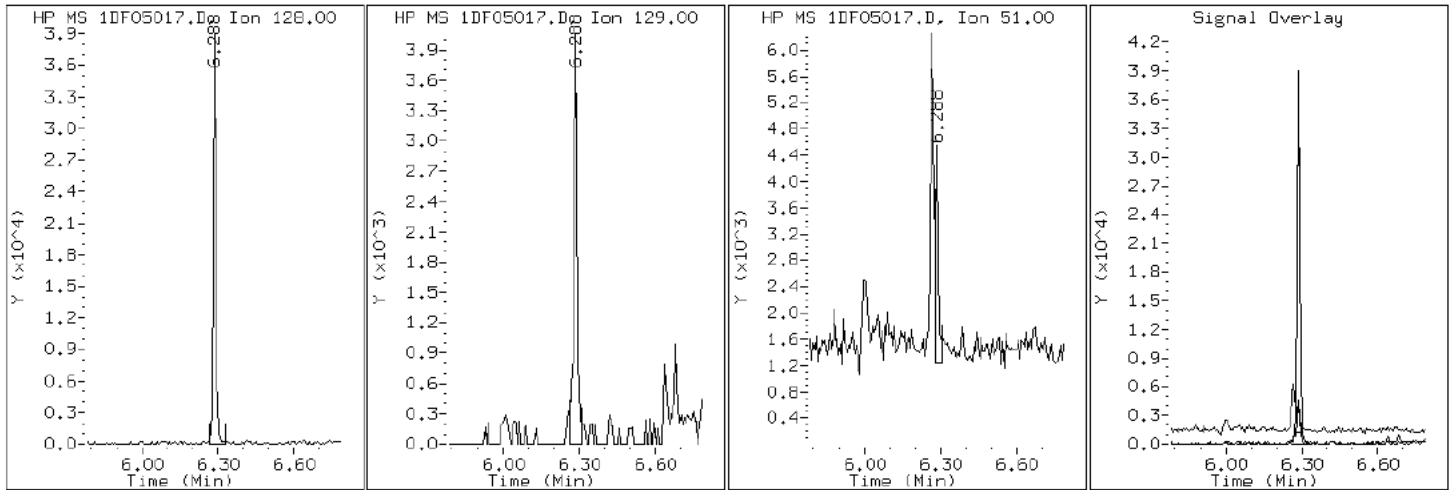
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

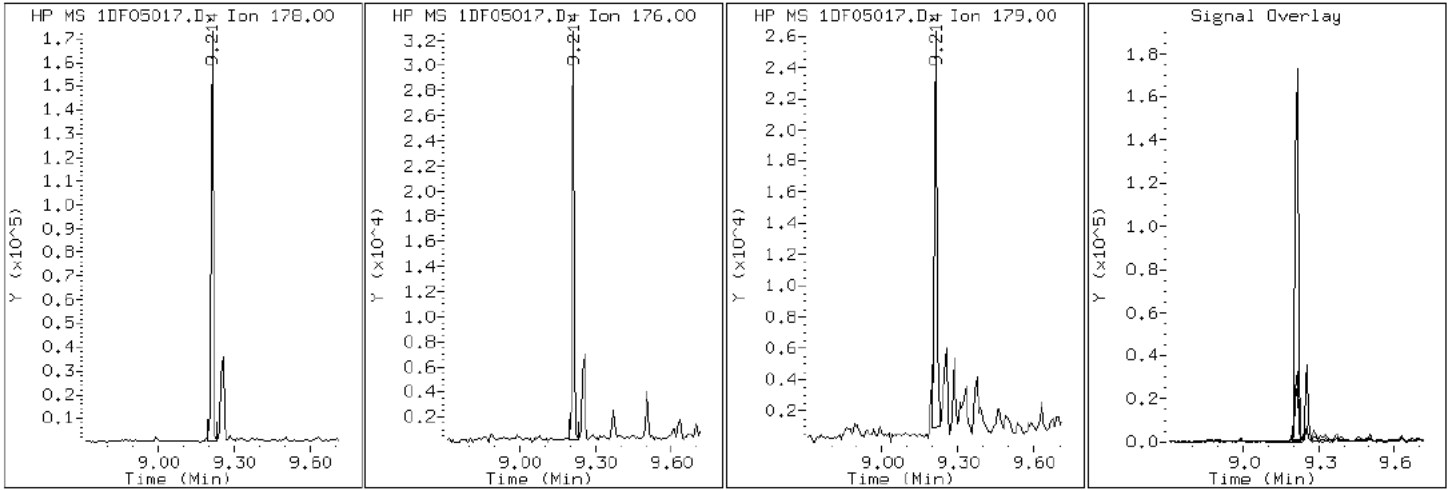
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05017.D

Date: 05-JUN-2013 17:10

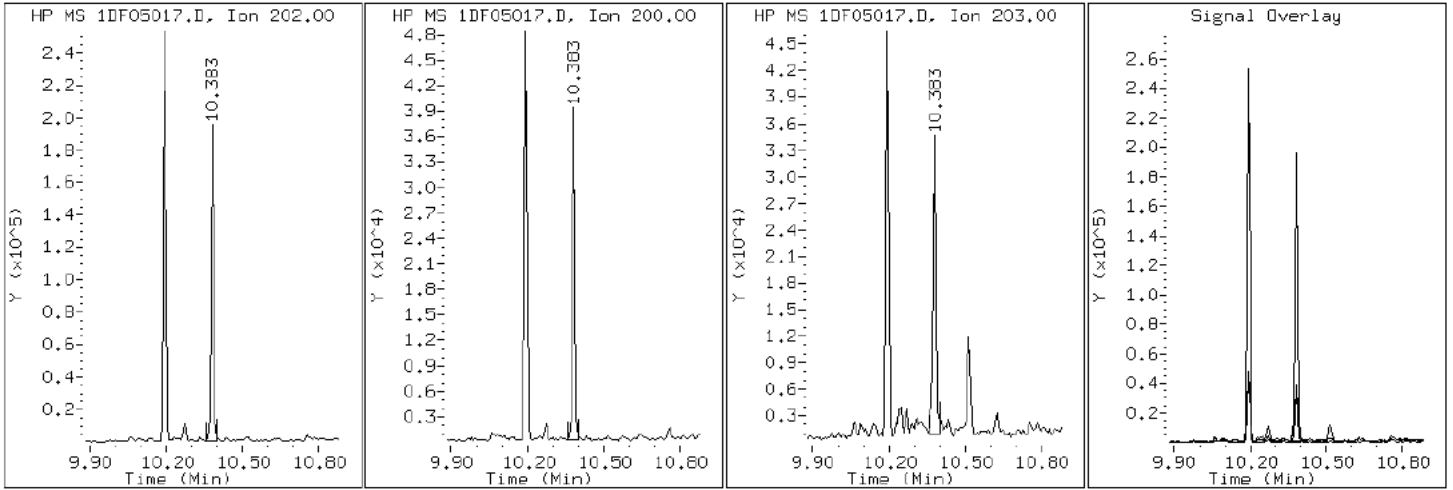
Client ID: CV1034A-CSD

Instrument: BSMSD.i

Sample Info: 680-90686-a-9-a

Operator: SCC

17 Pyrene

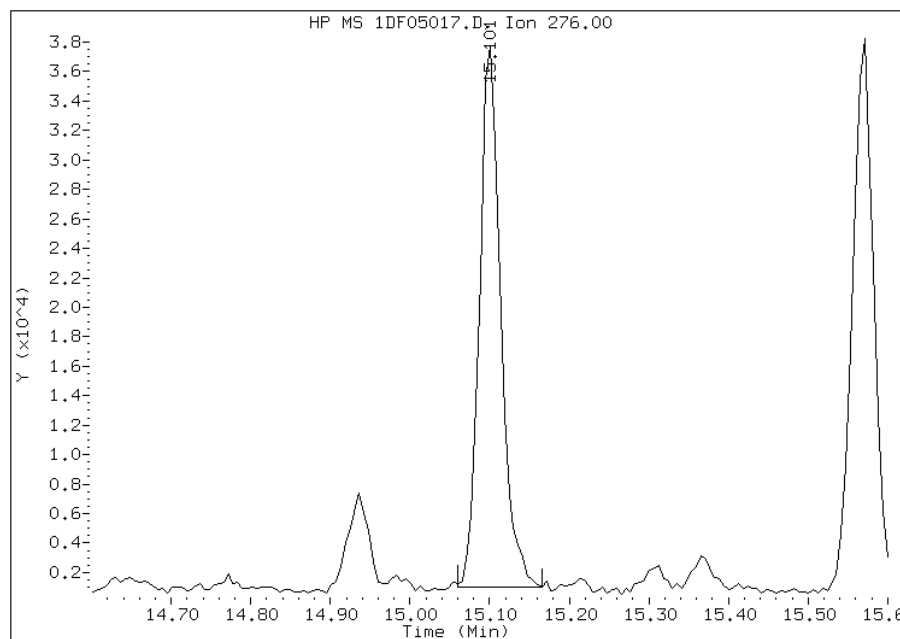


Manual Integration Report

Data File: 1DF05017.D
Inj. Date and Time: 05-JUN-2013 17:10
Instrument ID: BSMSD.i
Client ID: CV1034A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

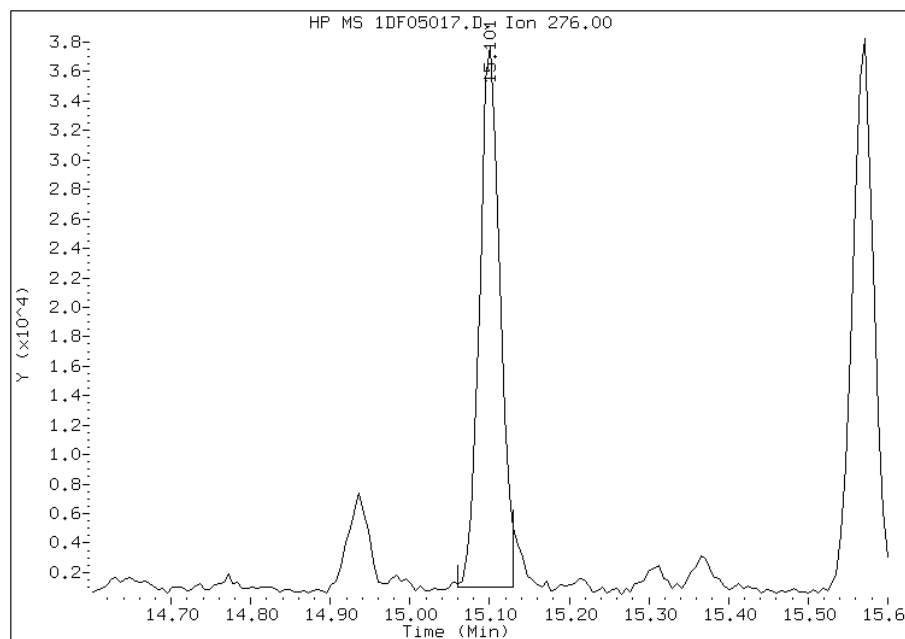
Processing Integration Results

RT: 15.10
Response: 67551
Amount: 1
Conc: 322



Manual Integration Results

RT: 15.10
Response: 65385
Amount: 1
Conc: 314



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV1073A-CS Lab Sample ID: 680-90686-10
 Matrix: Solid Lab File ID: 1DF05018.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:30
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.18(g) Date Analyzed: 06/05/2013 17:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	6.4	J	49	6.1
120-12-7	Anthracene	15		10	5.1
56-55-3	Benzo[a]anthracene	61		9.7	4.7
50-32-8	Benzo[a]pyrene	71		13	6.3
205-99-2	Benzo[b]fluoranthene	120		15	7.4
191-24-2	Benzo[g,h,i]perylene	47		24	5.3
207-08-9	Benzo[k]fluoranthene	37		9.7	4.4
218-01-9	Chrysene	89		11	5.5
53-70-3	Dibenz(a,h)anthracene	18	J	24	5.0
206-44-0	Fluoranthene	150		24	4.9
86-73-7	Fluorene	6.0	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	53		24	8.6
90-12-0	1-Methylnaphthalene	10	J	49	5.3
91-57-6	2-Methylnaphthalene	15	J	49	8.6
91-20-3	Naphthalene	17	J	49	5.3
85-01-8	Phenanthrene	65		9.7	4.7
129-00-0	Pyrene	100		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05018.D
 Lab Smp Id: 680-90686-A-10-A Client Smp ID: CV1073A-CS
 Inj Date : 05-JUN-2013 17:33
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-10-a
 Misc Info : 680-90686-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.180	Weight Extracted
M	18.599	% 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		6.265	6.265	(1.000)	3245350	40.0000	
* 7 Acenaphthene-d10	164		7.934	7.934	(1.000)	1744917	40.0000	
* 11 Phenanthrene-d10	188		9.197	9.191	(1.000)	2686436	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.503	(1.033)	277653	7.05473	570
* 19 Chrysene-d12	240		11.559	11.553	(1.000)	2468022	40.0000	
* 24 Perylene-d12	264		13.463	13.457	(1.000)	2720030	40.0000	
2 Naphthalene	128		6.289	6.289	(1.004)	16872	0.21082	17
3 2-Methylnaphthalene	142		6.988	6.988	(1.115)	9678	0.18992	15
4 1-Methylnaphthalene	142		7.076	7.076	(1.129)	6539	0.12465	10
5 1,1'-Biphenyl	154		7.423	7.423	(0.936)	3339	0.05664	4.6
6 Acenaphthylene	152		7.810	7.811	(0.984)	5688	0.07862	6.4
9 Dibenzofuran	168		8.110	8.110	(1.022)	4476	0.07073	5.7
10 Fluorene	166		8.404	8.404	(1.059)	3864	0.07441	6.0
12 Phenanthrene	178		9.215	9.215	(1.002)	58626	0.80577	65

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.250	9.256	(1.006)	13490	0.19109	15
16 Fluoranthene	202	10.196	10.196	(1.109)	140810	1.89175	150
17 Pyrene	202	10.384	10.384	(0.898)	92694	1.28282	100
18 Benzo(a)anthracene	228	11.541	11.542	(0.998)	55495	0.75766	61
20 Chrysene	228	11.583	11.583	(1.002)	72462	1.09864	89
21 Benzo(b)fluoranthene	252	12.899	12.893	(0.958)	96850	1.42128	120
22 Benzo(k)fluoranthene	252	12.928	12.934	(0.960)	33061	0.46330	37
23 Benzo(a)pyrene	252	13.363	13.363	(0.993)	52522	0.87703	71
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.122)	35948	0.65648	53(QM)
26 Dibenzo(a,h)anthracene	278	15.137	15.137	(1.124)	9839	0.22332	18
27 Benzo(g,h,i)perylene	276	15.584	15.572	(1.158)	35520	0.57511	46

QC Flag Legend

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

Data File: 1DF05018.D

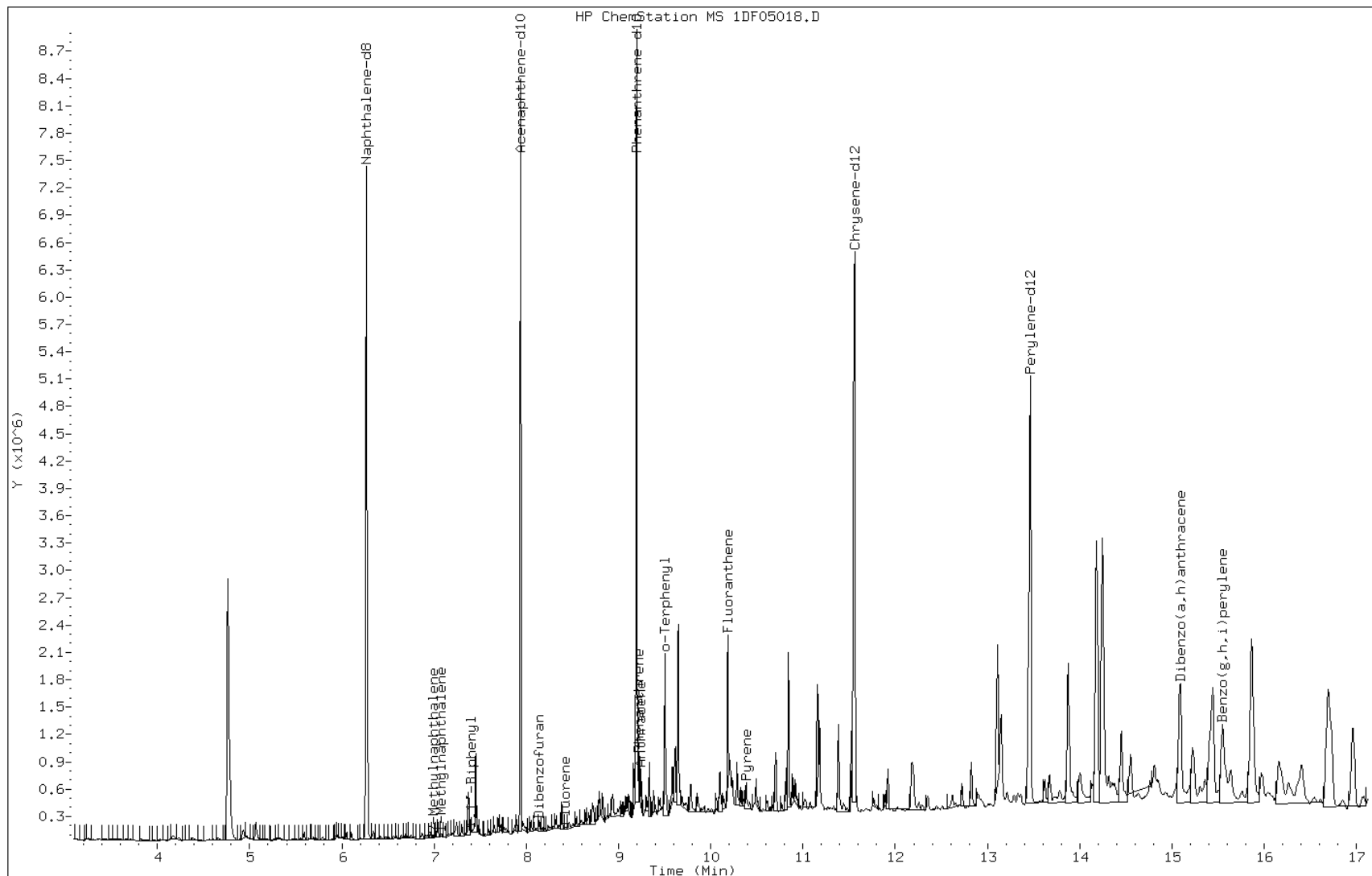
Date: 05-JUN-2013 17:33

Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

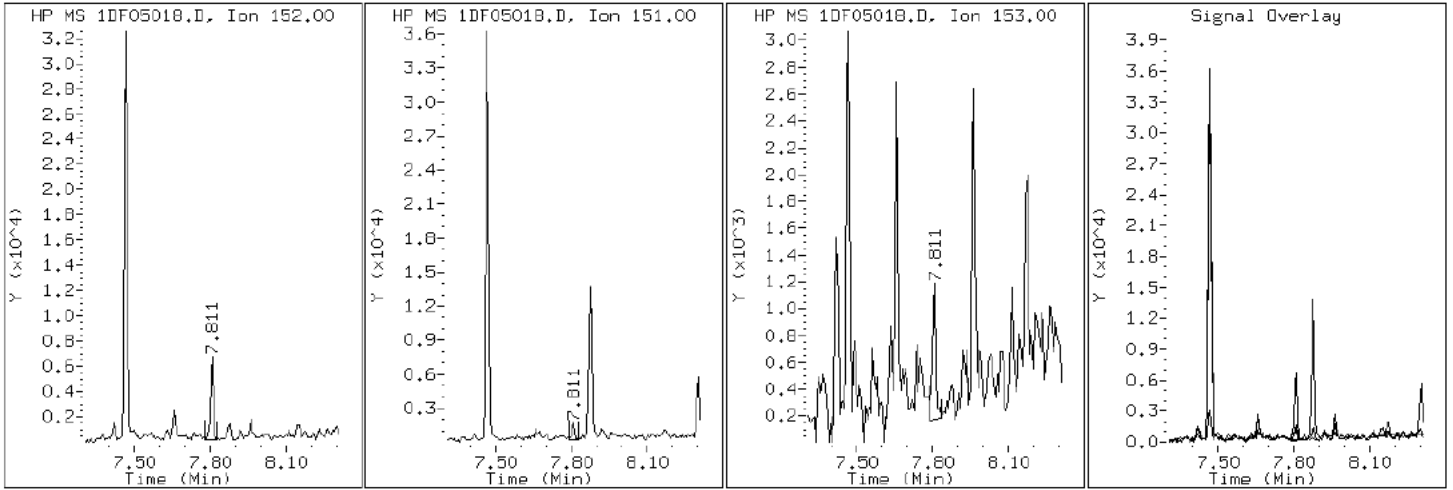
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

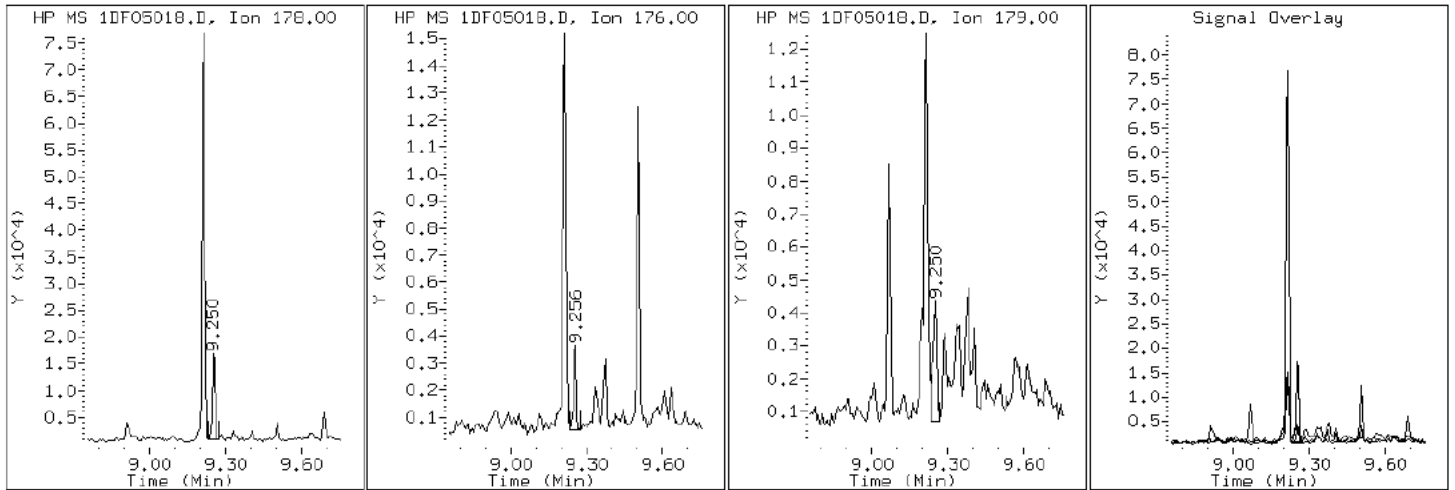
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

13 Anthracene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

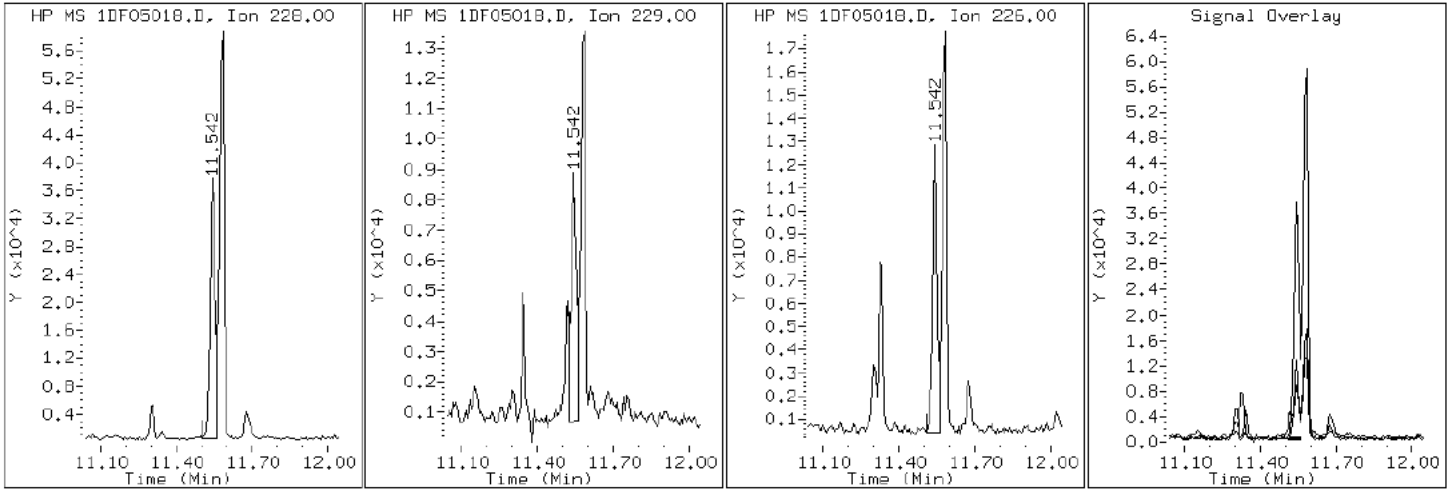
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

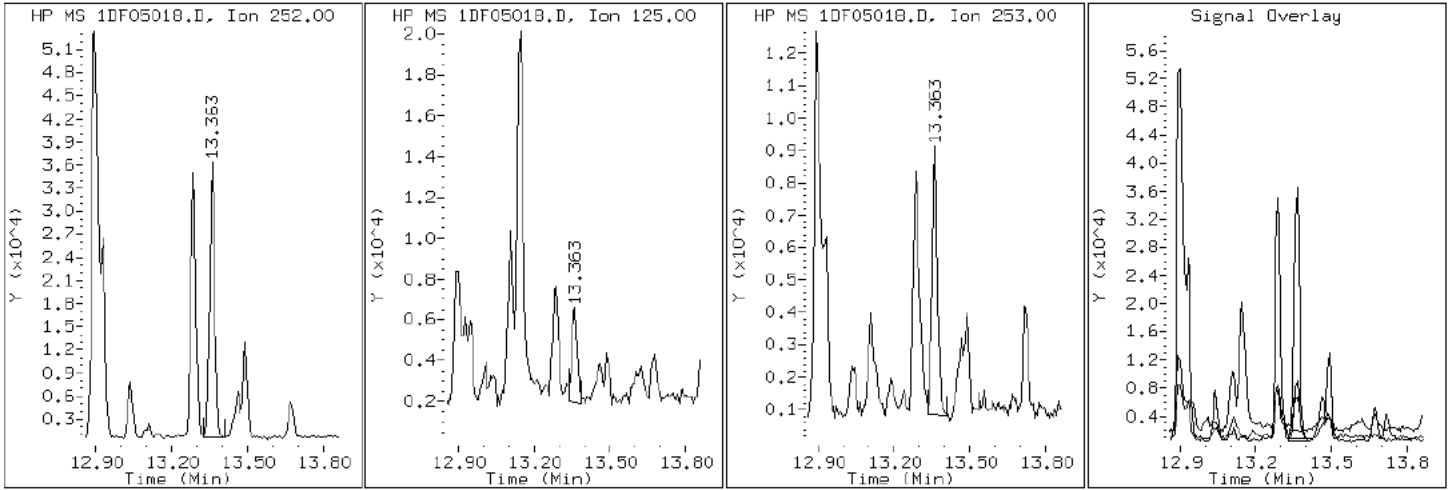
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

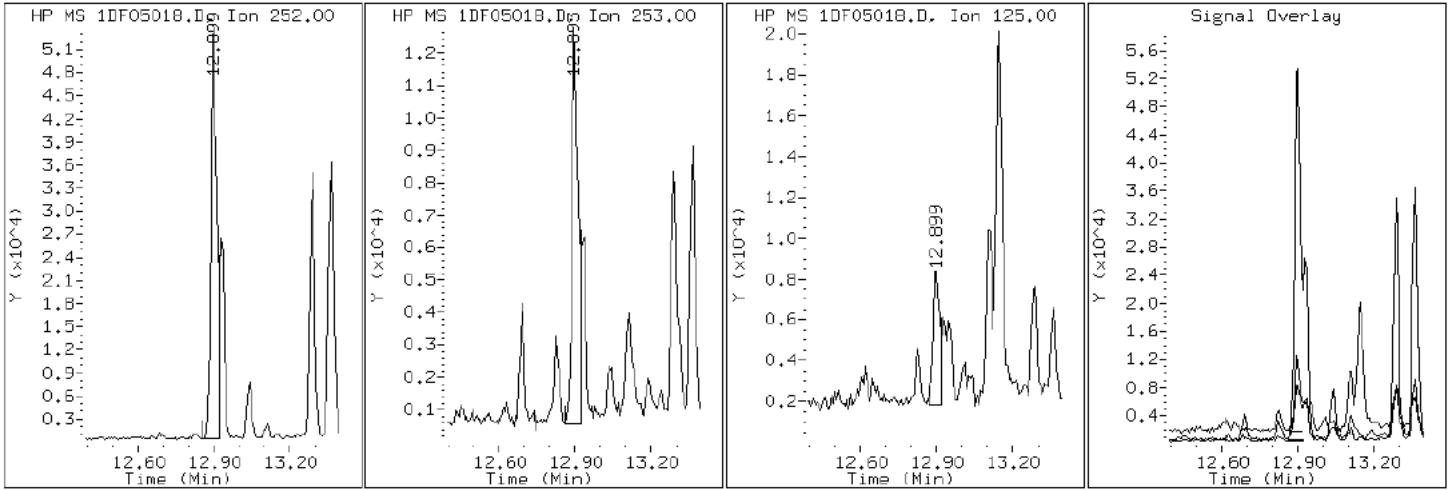
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

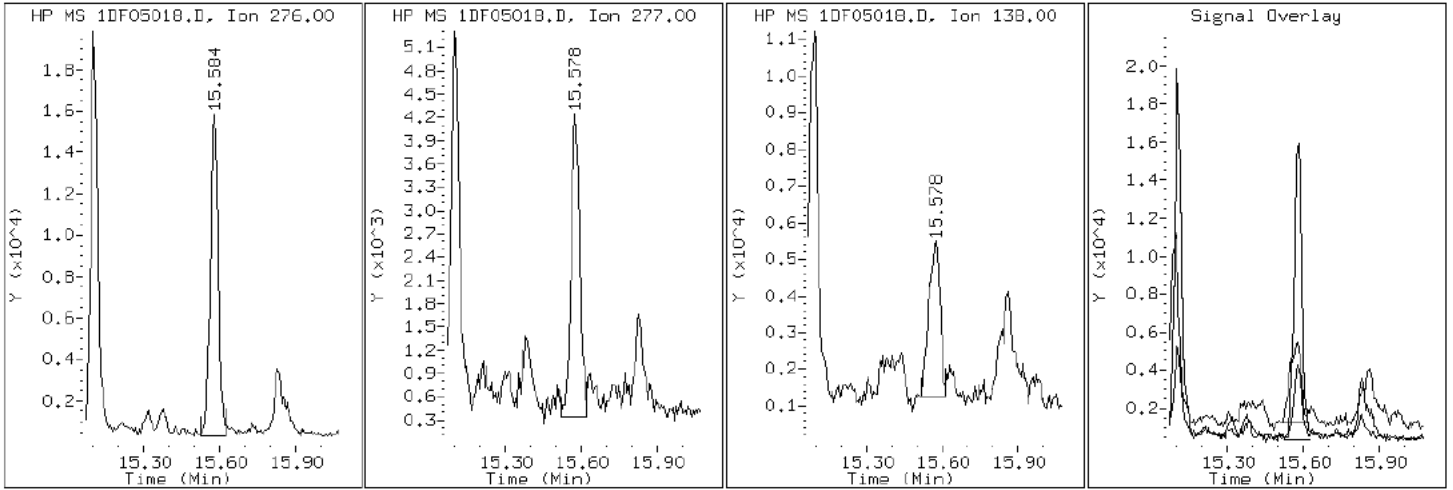
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

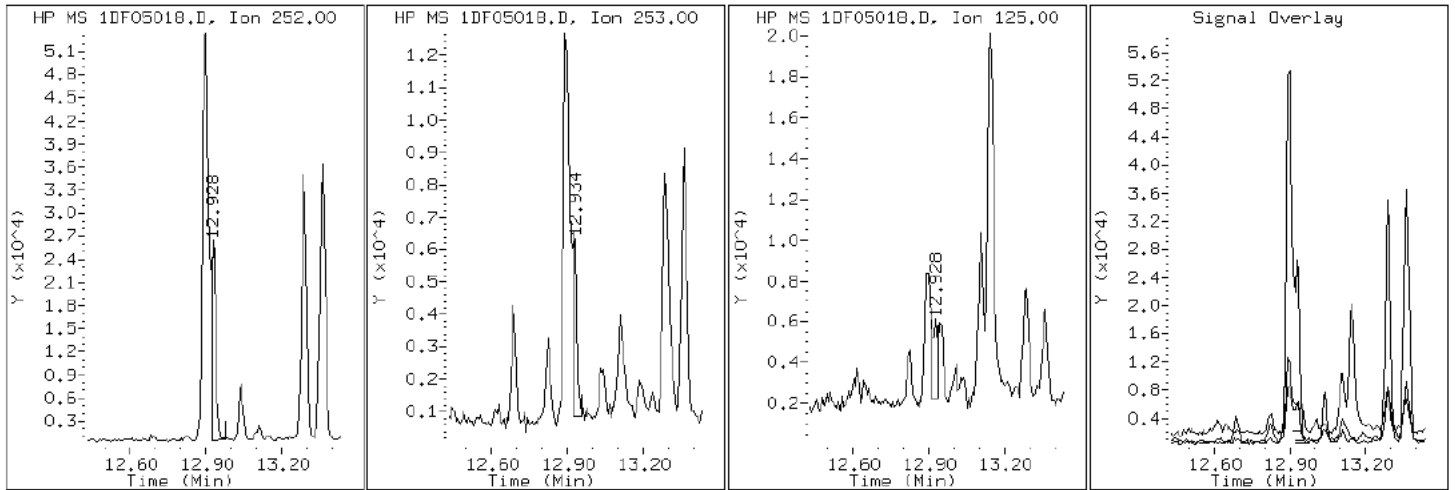
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

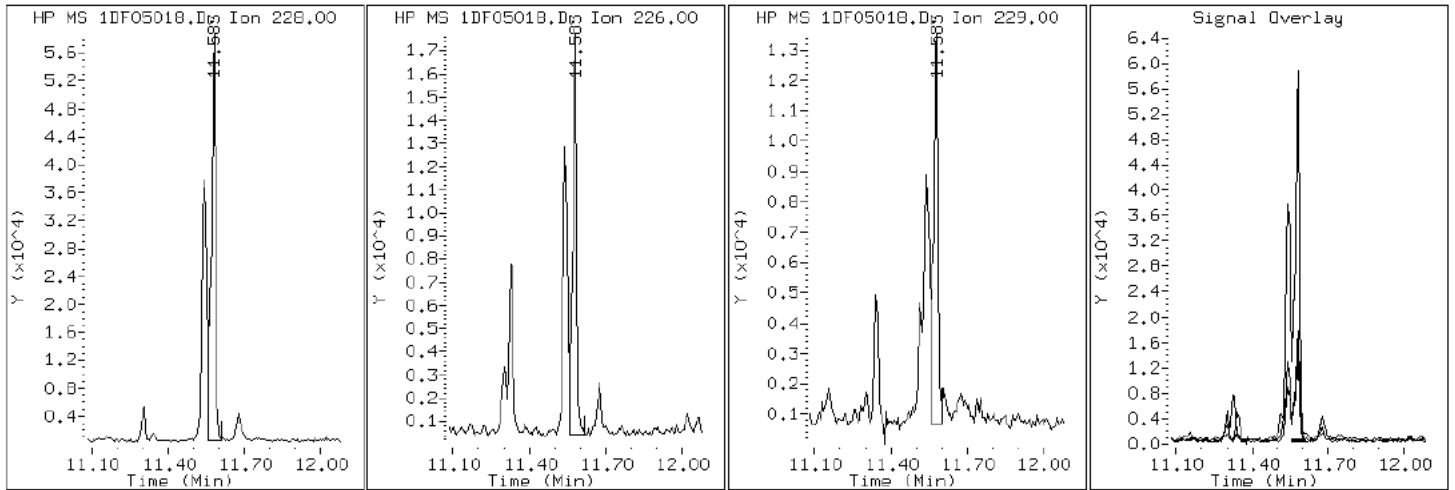
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

20 Chrysene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

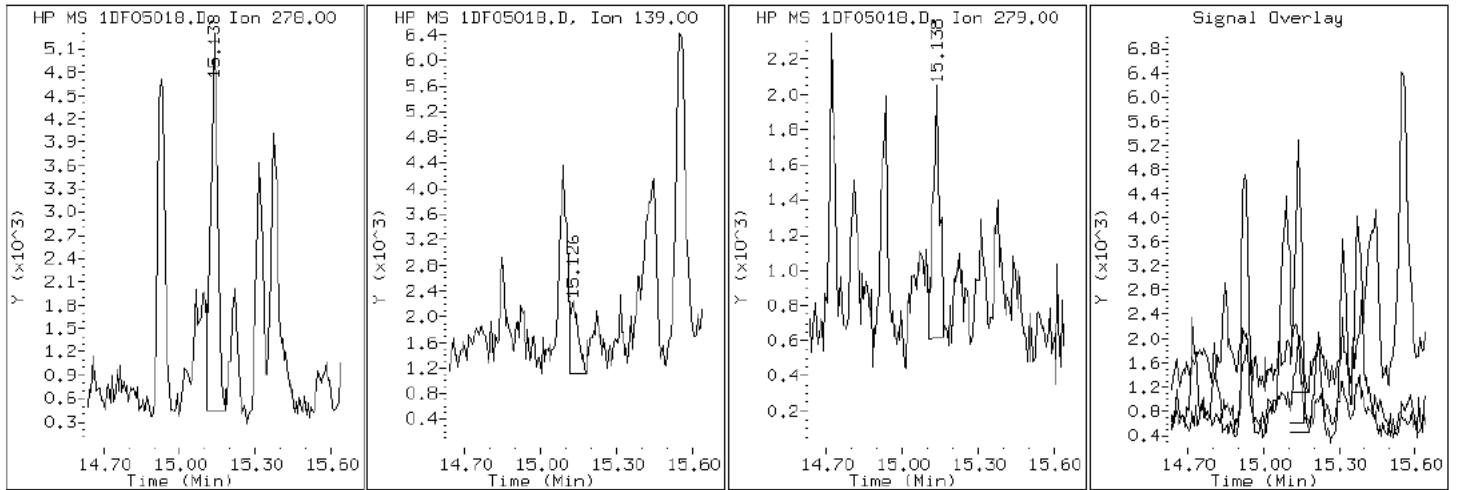
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

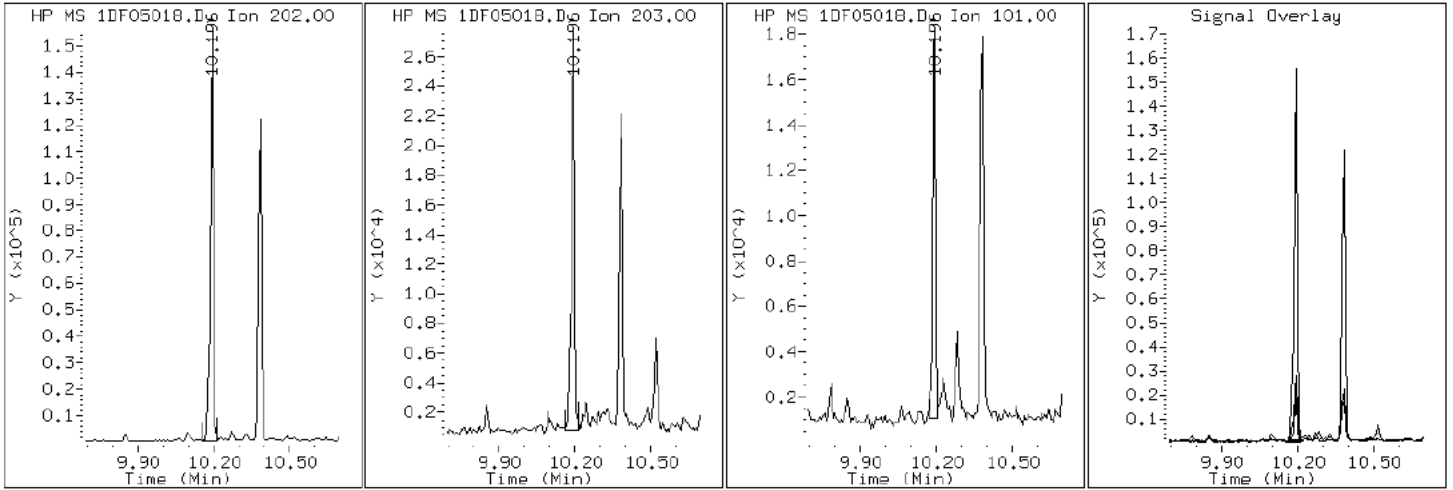
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

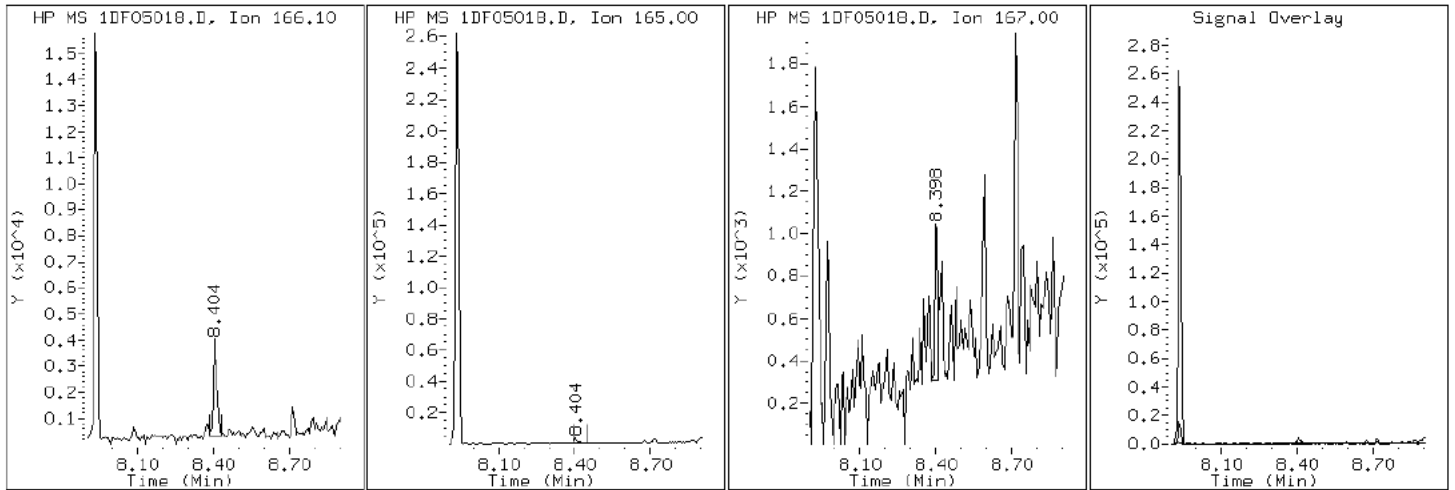
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

10 Fluorene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

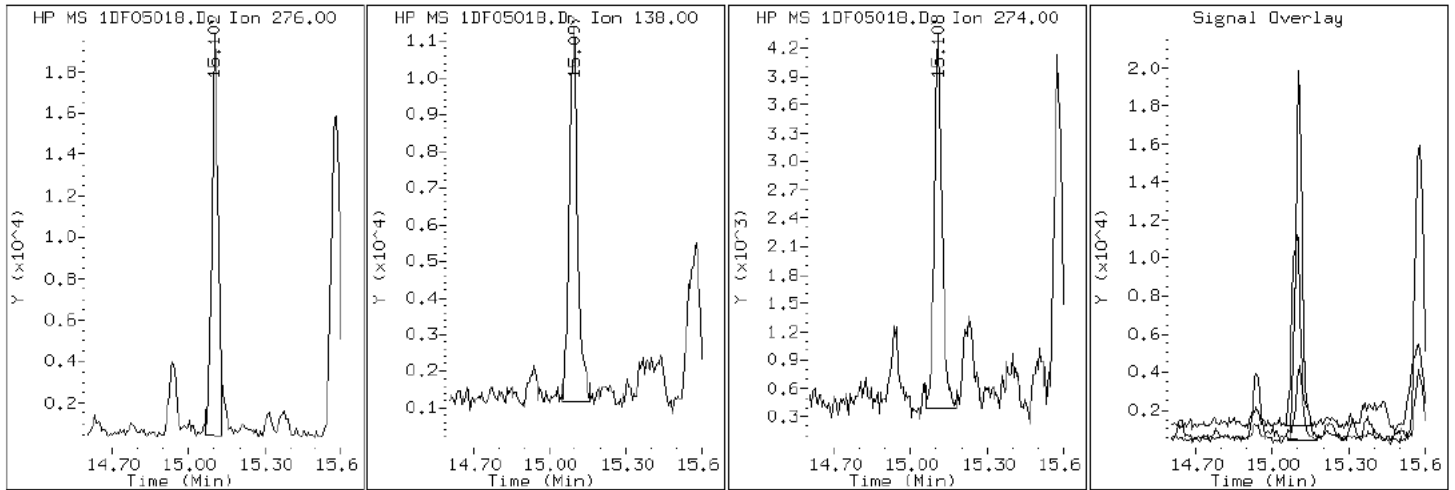
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

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



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

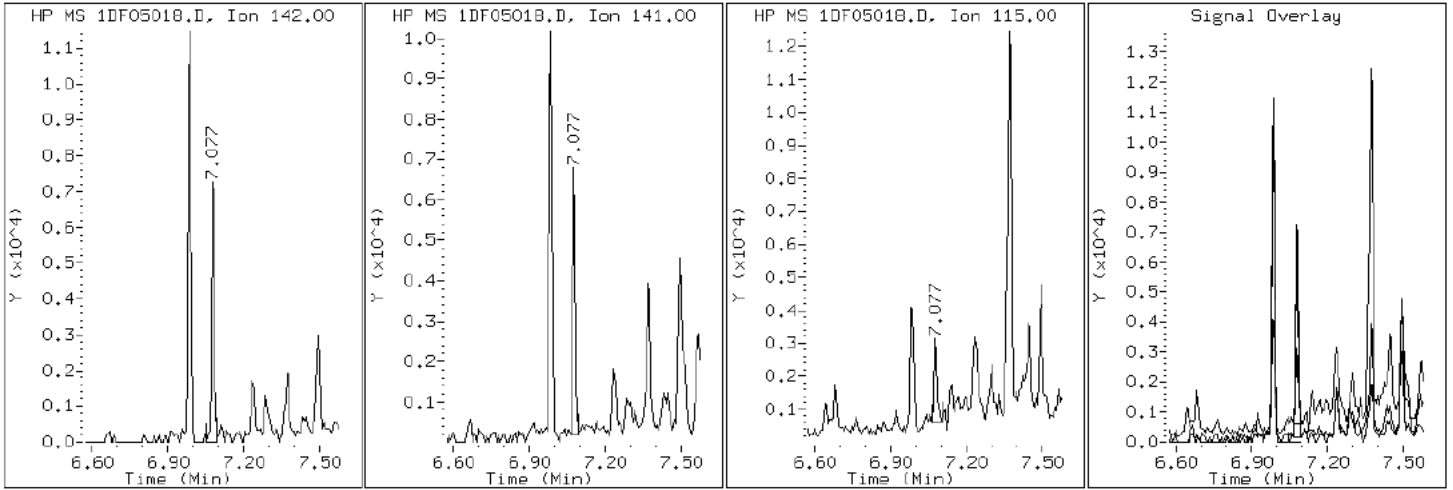
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

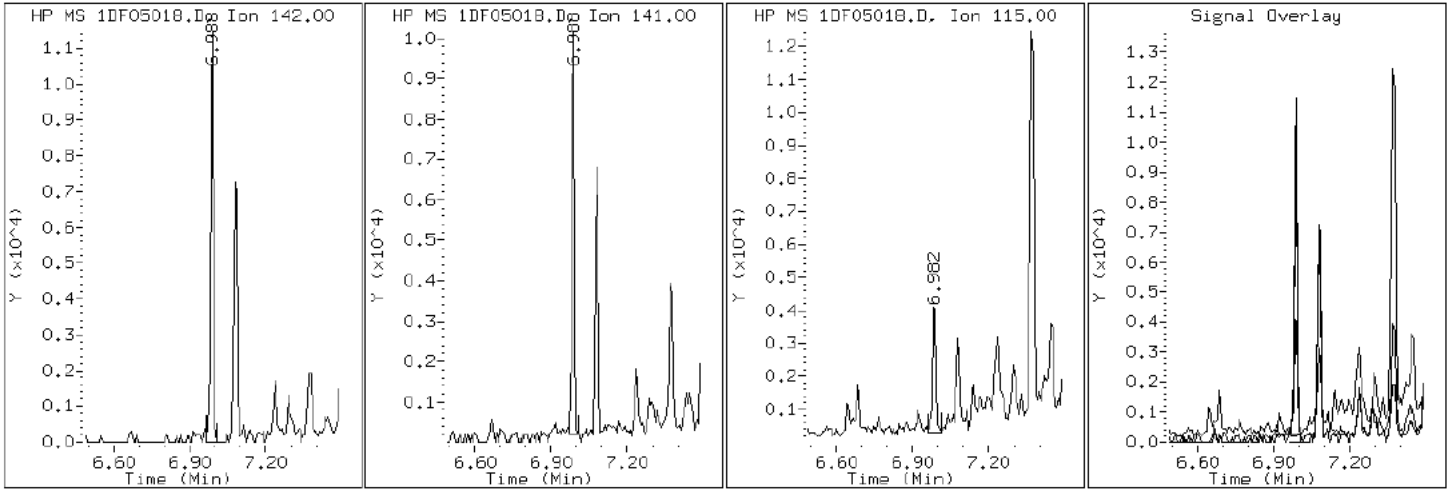
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

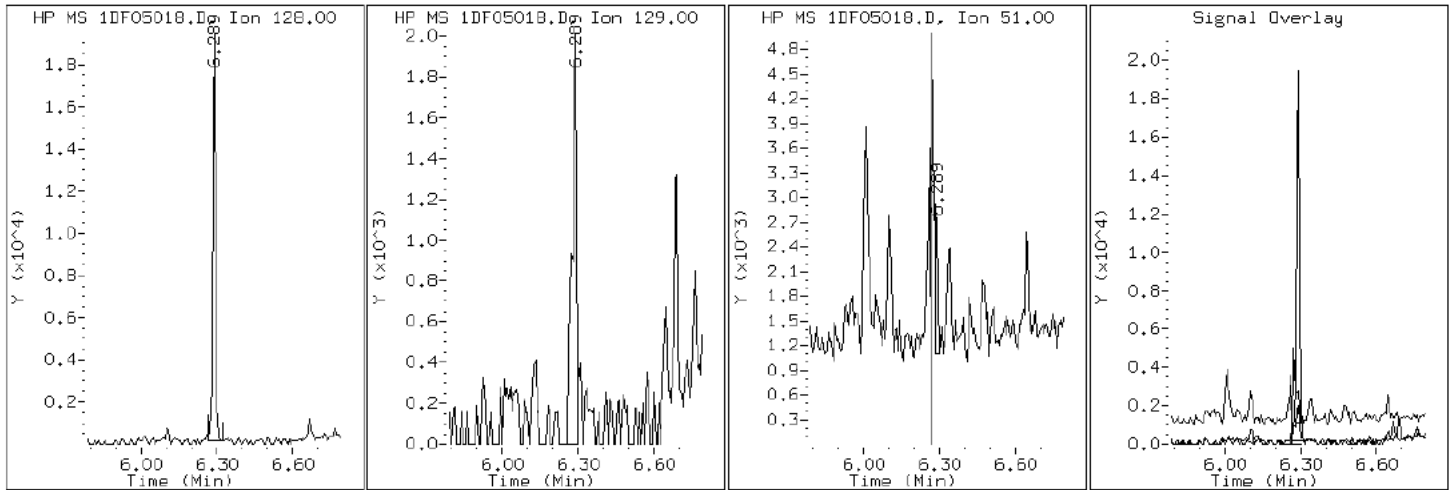
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

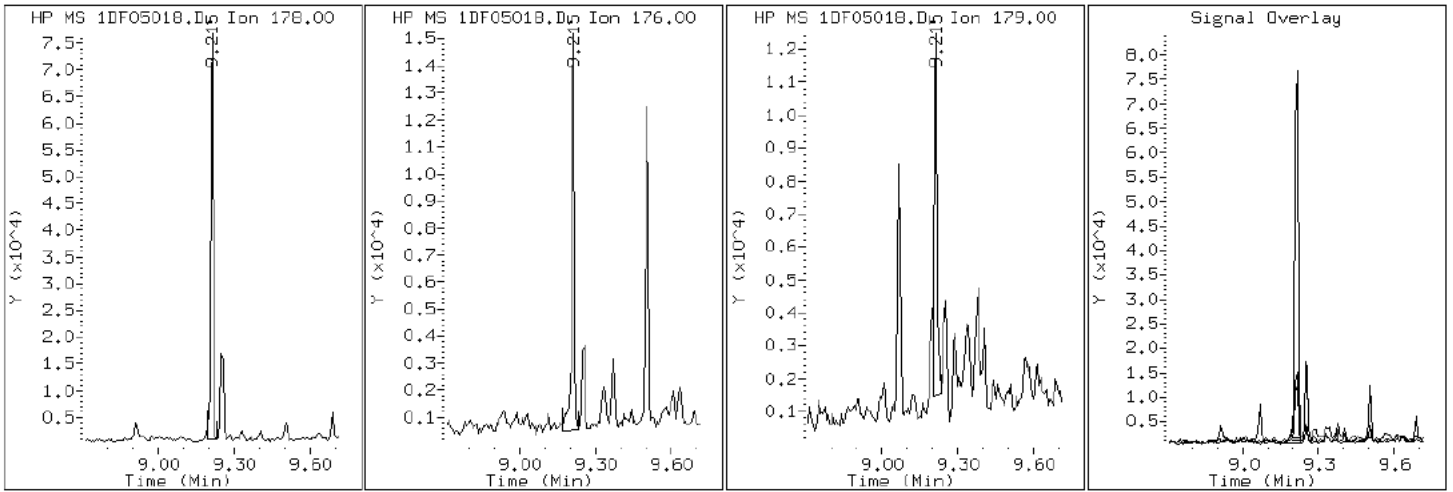
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05018.D

Date: 05-JUN-2013 17:33

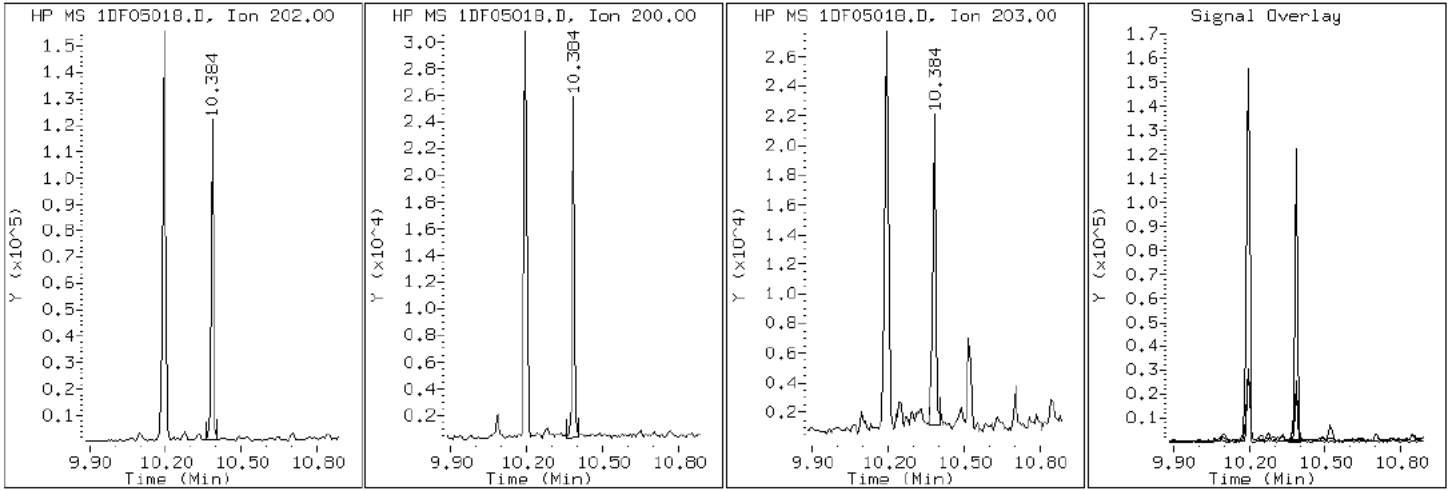
Client ID: CV1073A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-10-a

Operator: SCC

17 Pyrene

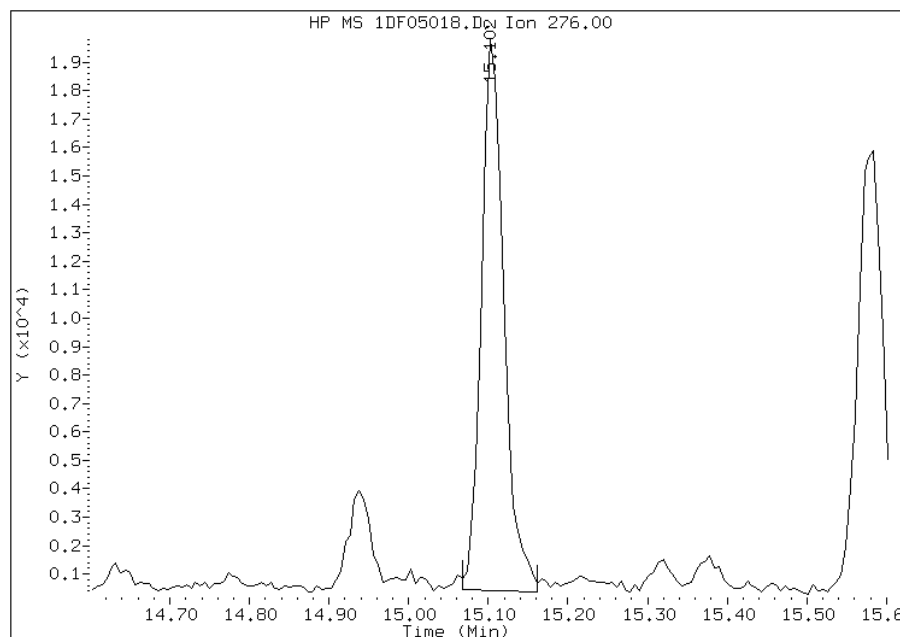


Manual Integration Report

Data File: 1DF05018.D
Inj. Date and Time: 05-JUN-2013 17:33
Instrument ID: BSMSD.i
Client ID: CV1073A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

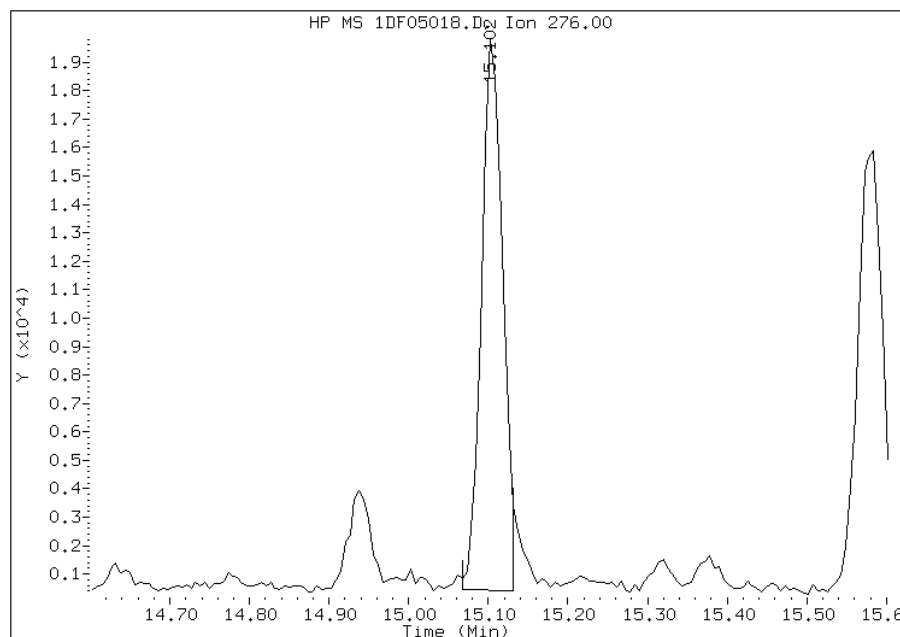
Processing Integration Results

RT: 15.10
Response: 37929
Amount: 1
Conc: 55



Manual Integration Results

RT: 15.10
Response: 35948
Amount: 1
Conc: 53



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV1073B-CS Lab Sample ID: 680-90686-11
 Matrix: Solid Lab File ID: 1DF05019.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:40
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.15(g) Date Analyzed: 06/05/2013 17:55
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	31	J	200	25
120-12-7	Anthracene	48		43	21
56-55-3	Benzo[a]anthracene	170		41	20
50-32-8	Benzo[a]pyrene	190		53	26
205-99-2	Benzo[b]fluoranthene	280		62	31
191-24-2	Benzo[g,h,i]perylene	120		100	22
207-08-9	Benzo[k]fluoranthene	84		41	18
218-01-9	Chrysene	240		46	23
53-70-3	Dibenz(a,h)anthracene	59	J	100	21
206-44-0	Fluoranthene	280		100	20
86-73-7	Fluorene	24	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	150		100	36
90-12-0	1-Methylnaphthalene	92	J	200	22
91-57-6	2-Methylnaphthalene	130	J	200	36
91-20-3	Naphthalene	97	J	200	22
85-01-8	Phenanthrene	230		41	20
129-00-0	Pyrene	230		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05019.D
 Lab Smp Id: 680-90686-A-11-A Client Smp ID: CV1073B-CS
 Inj Date : 05-JUN-2013 17:55
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-11-a
 Misc Info : 680-90686-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 19
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	22.247	% 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		6.266	6.265	(1.000)	3111524	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.934	(1.000)	1686944	40.0000	
* 11 Phenanthrene-d10	188		9.192	9.191	(1.000)	2688254	40.0000	
\$ 15 o-Terphenyl	230		9.504	9.503	(1.034)	91314	2.31858	790
* 19 Chrysene-d12	240		11.560	11.553	(1.000)	2452989	40.0000	
* 24 Perylene-d12	264		13.470	13.457	(1.000)	2796970	40.0000	
2 Naphthalene	128		6.290	6.289	(1.004)	21847	0.28472	97
3 2-Methylnaphthalene	142		6.989	6.988	(1.115)	18755	0.38388	130
4 1-Methylnaphthalene	142		7.077	7.076	(1.129)	13700	0.27238	92
5 1,1'-Biphenyl	154		7.424	7.423	(0.936)	4880	0.08562	29
6 Acenaphthylene	152		7.812	7.811	(0.984)	6392	0.09139	31
9 Dibenzofuran	168		8.111	8.110	(1.022)	6889	0.11260	38
10 Fluorene	166		8.405	8.404	(1.059)	3601	0.07173	24
12 Phenanthrene	178		9.210	9.215	(1.002)	50021	0.68704	230

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.251	9.256 (1.006)		9929	0.14055	48
16 Fluoranthene	202	10.197	10.196 (1.109)		61407	0.82443	280
17 Pyrene	202	10.385	10.384 (0.898)		48919	0.68116	230
18 Benzo(a)anthracene	228	11.542	11.542 (0.998)		36885	0.50667	170
20 Chrysene	228	11.584	11.583 (1.002)		47176	0.71965	240
21 Benzo(b)fluoranthene	252	12.900	12.893 (0.958)		58117	0.82941	280
22 Benzo(k)fluoranthene	252	12.929	12.934 (0.960)		18236	0.24852	84
23 Benzo(a)pyrene	252	13.364	13.363 (0.992)		31260	0.54910	190
25 Indeno(1,2,3-cd)pyrene	276	15.103	15.102 (1.121)		21096	0.43821	150(M)
26 Dibenzo(a,h)anthracene	278	15.132	15.137 (1.123)		6875	0.17482	59
27 Benzo(g,h,i)perylene	276	15.573	15.572 (1.156)		23317	0.36714	120

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05019.D

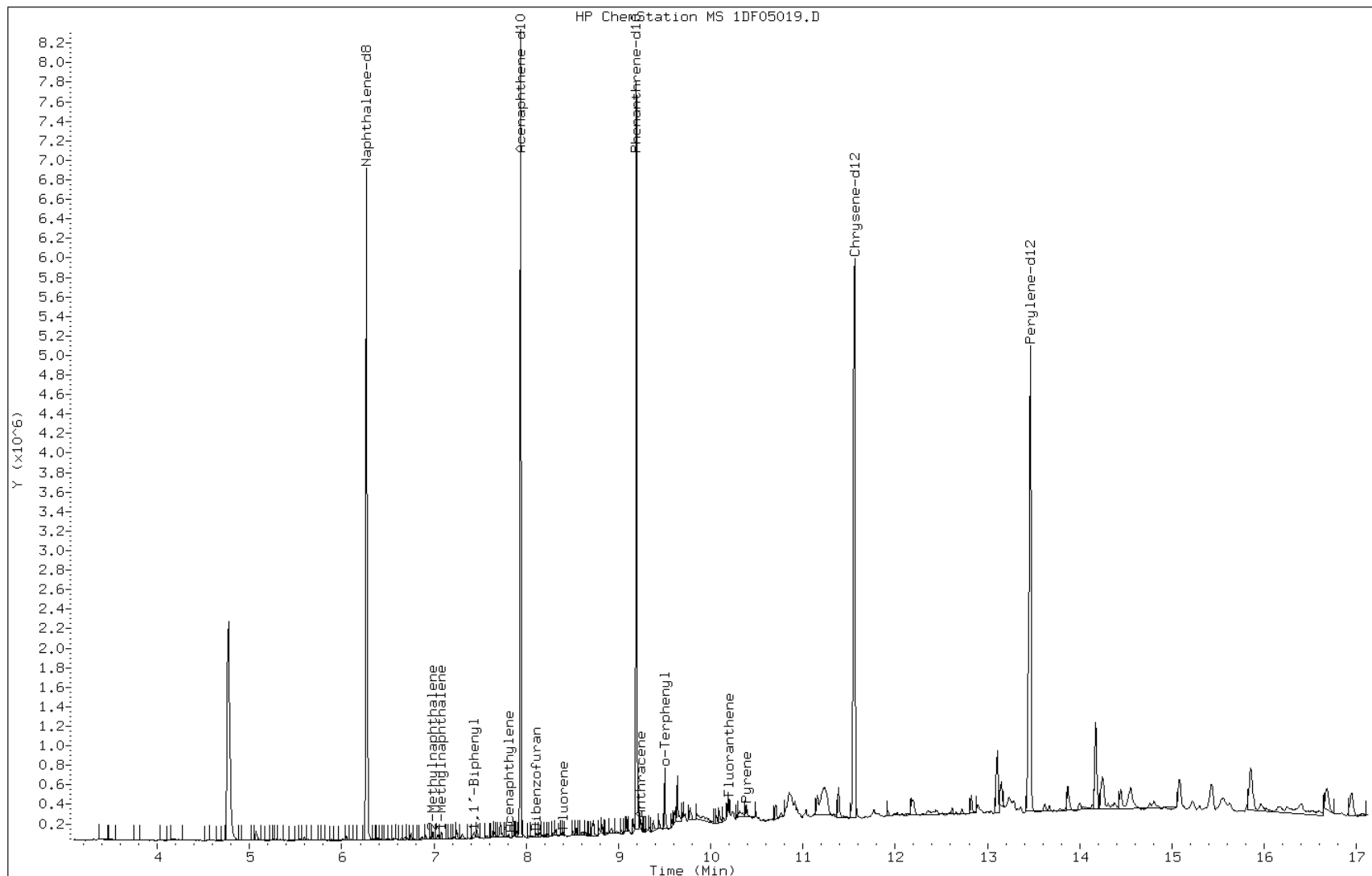
Date: 05-JUN-2013 17:55

Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

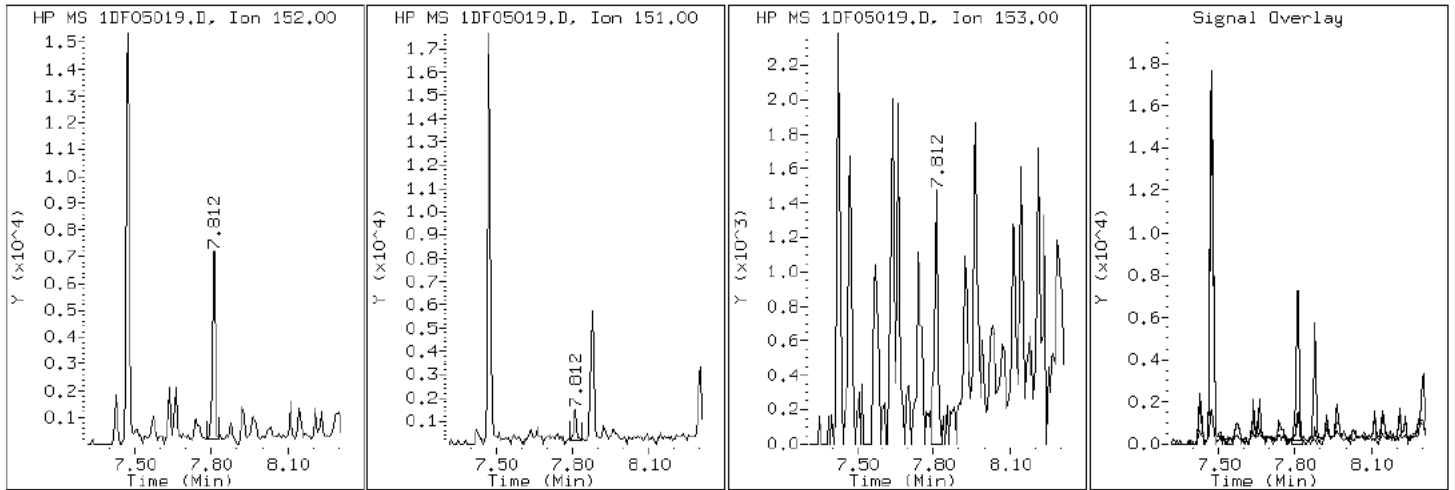
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

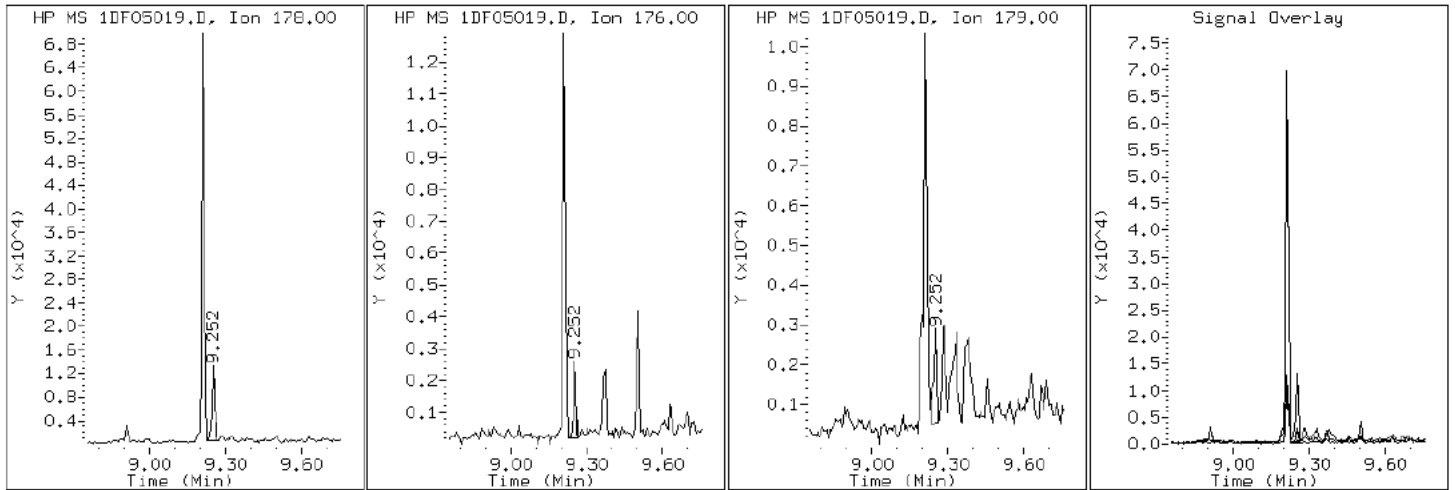
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

13 Anthracene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

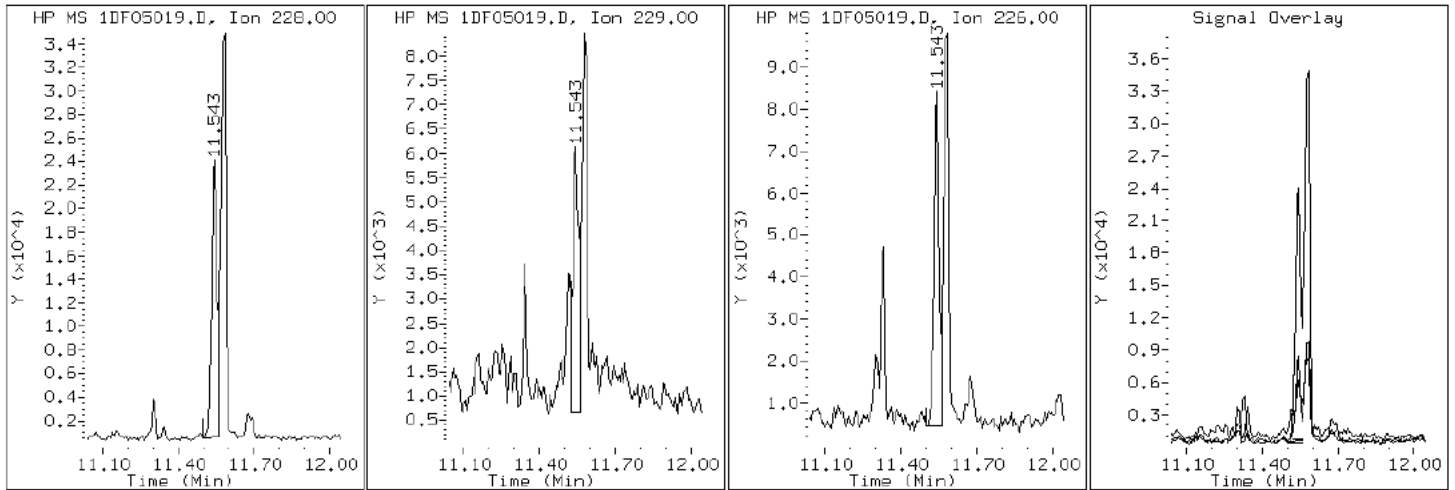
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

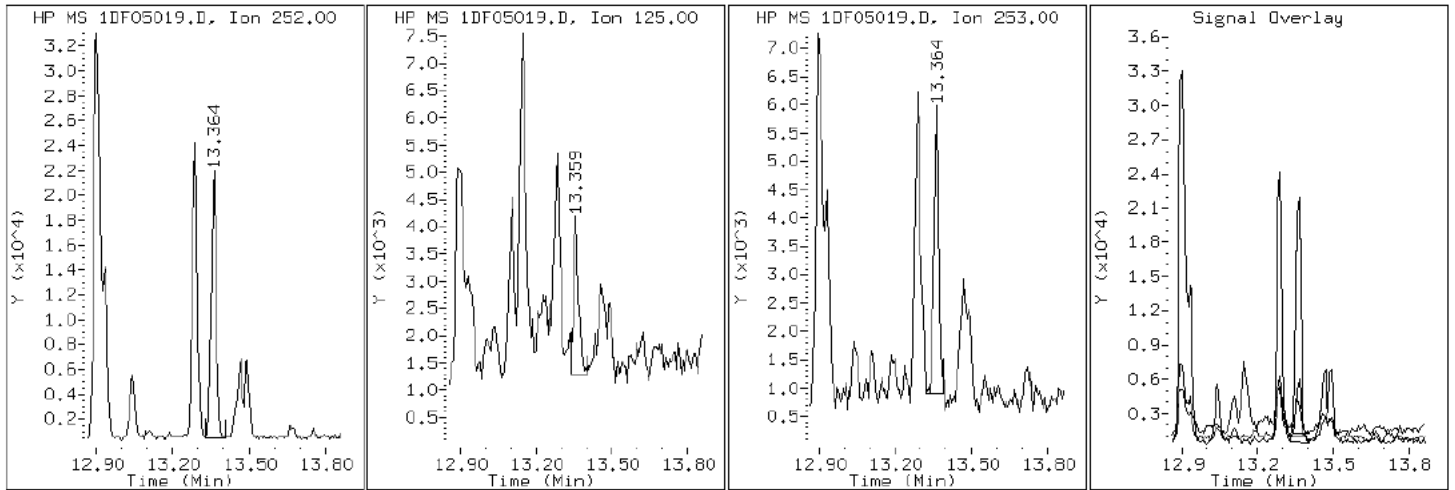
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

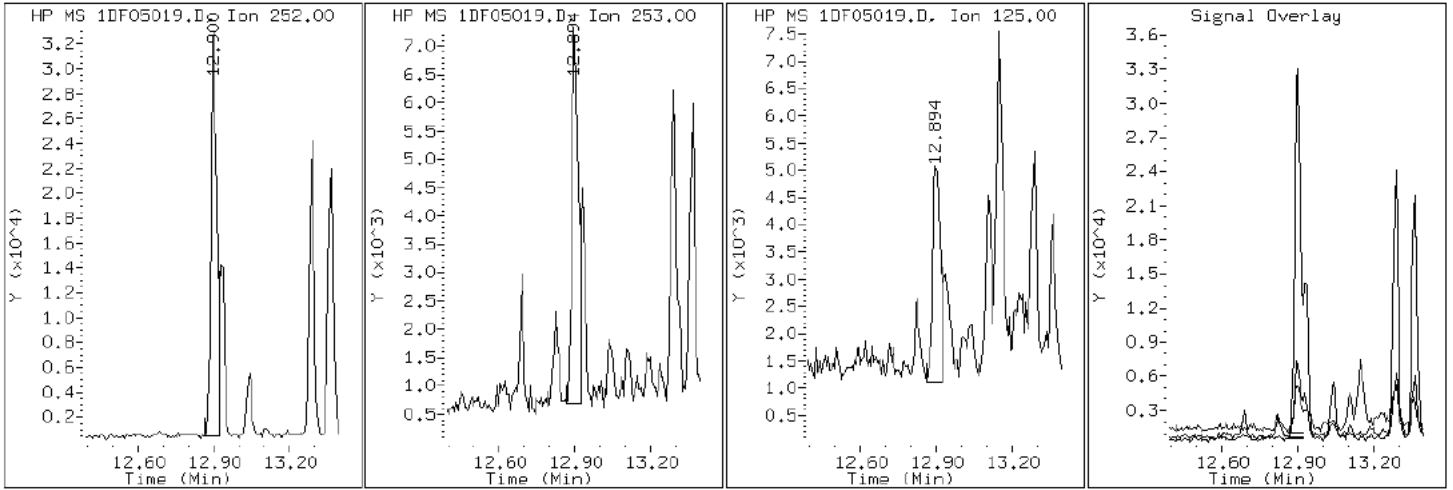
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

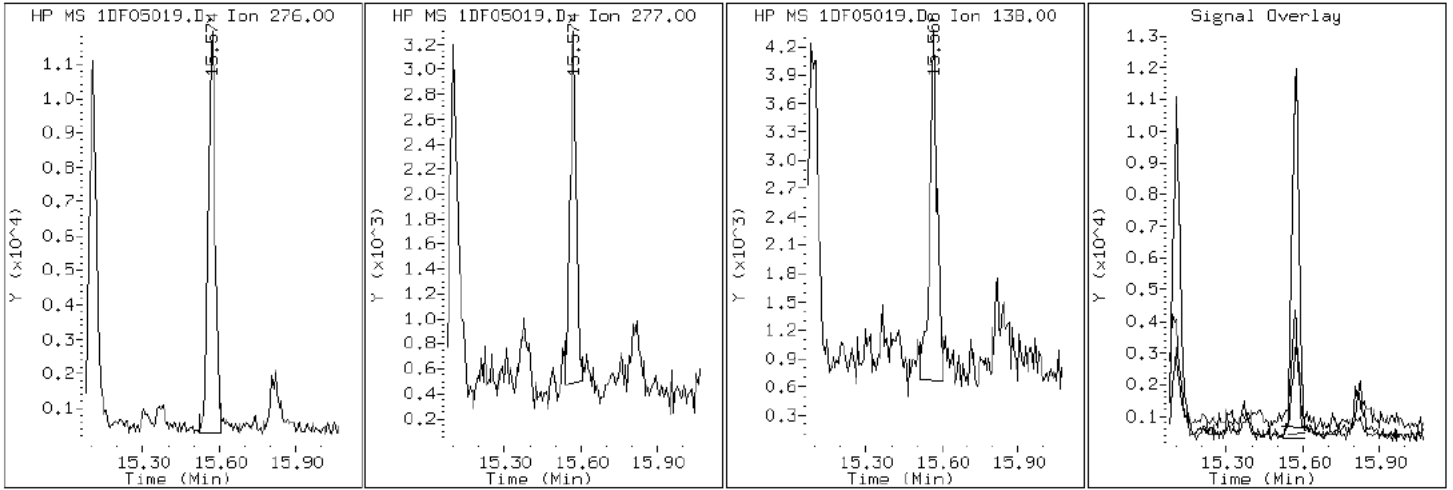
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

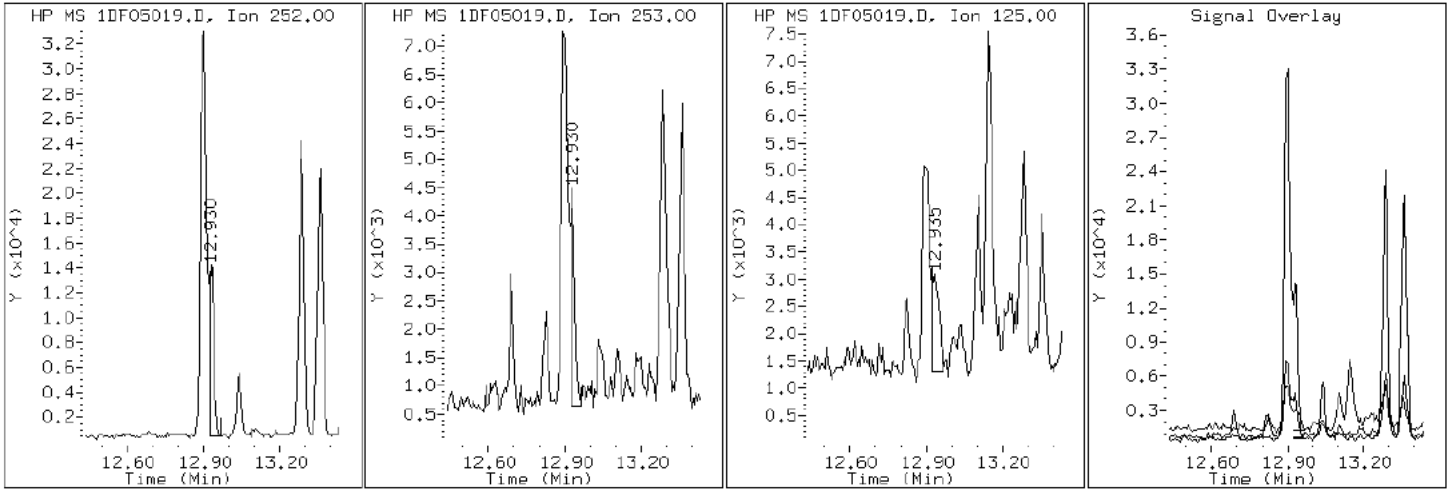
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

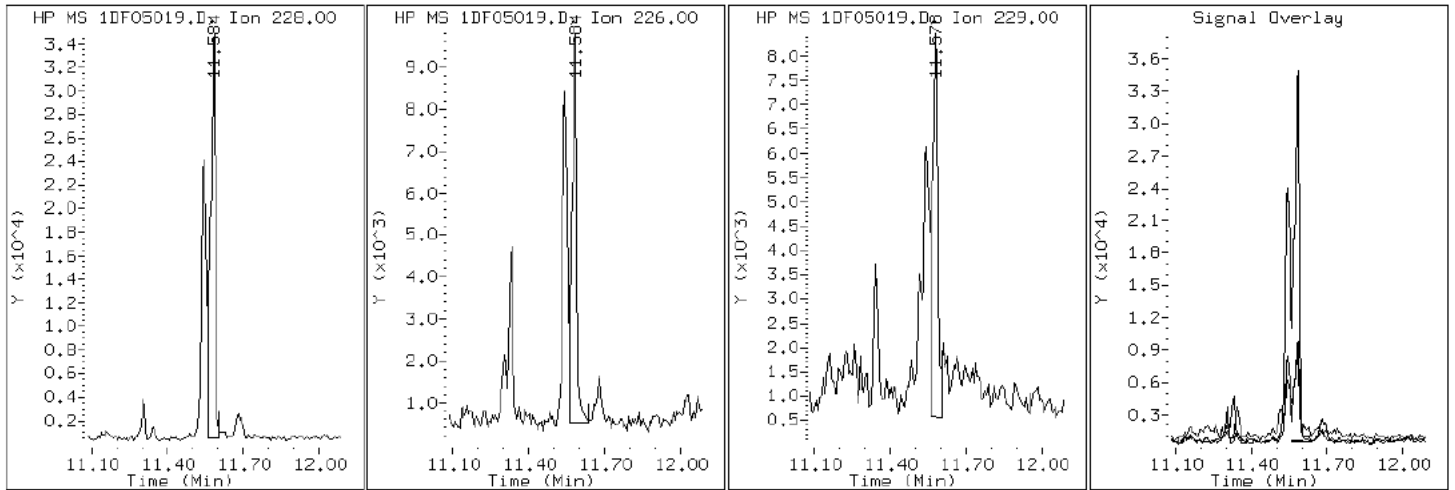
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

20 Chrysene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

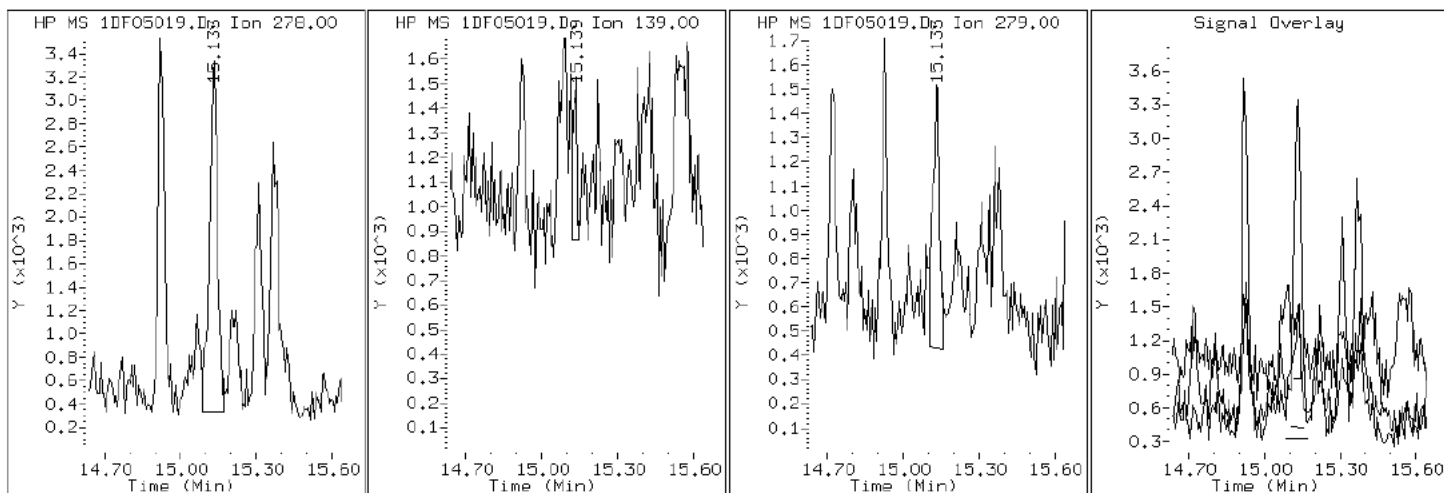
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

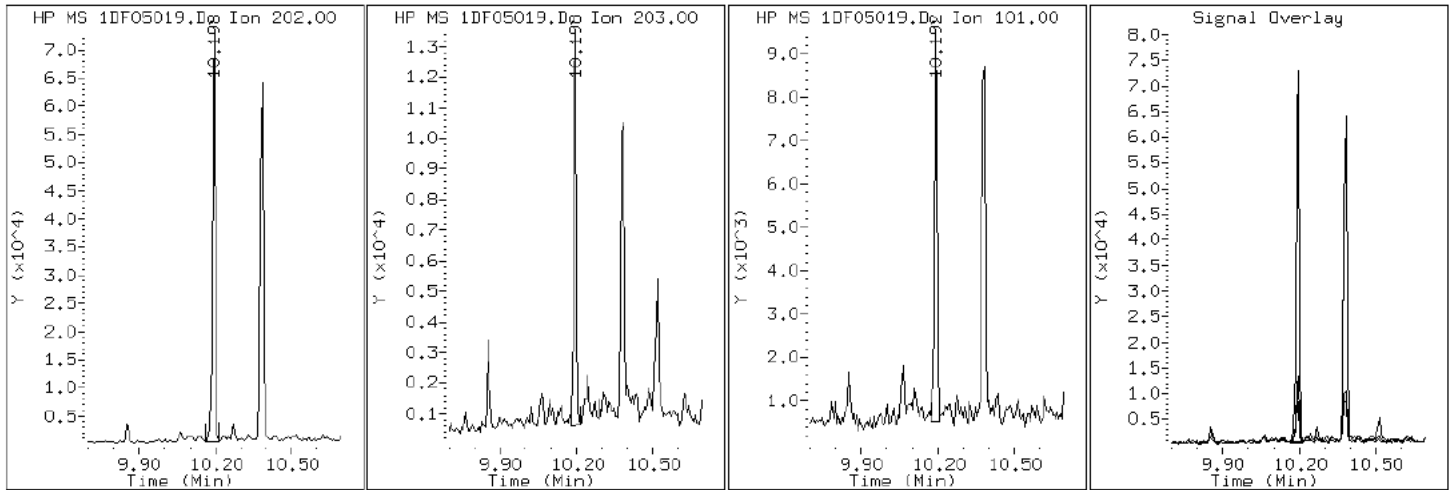
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

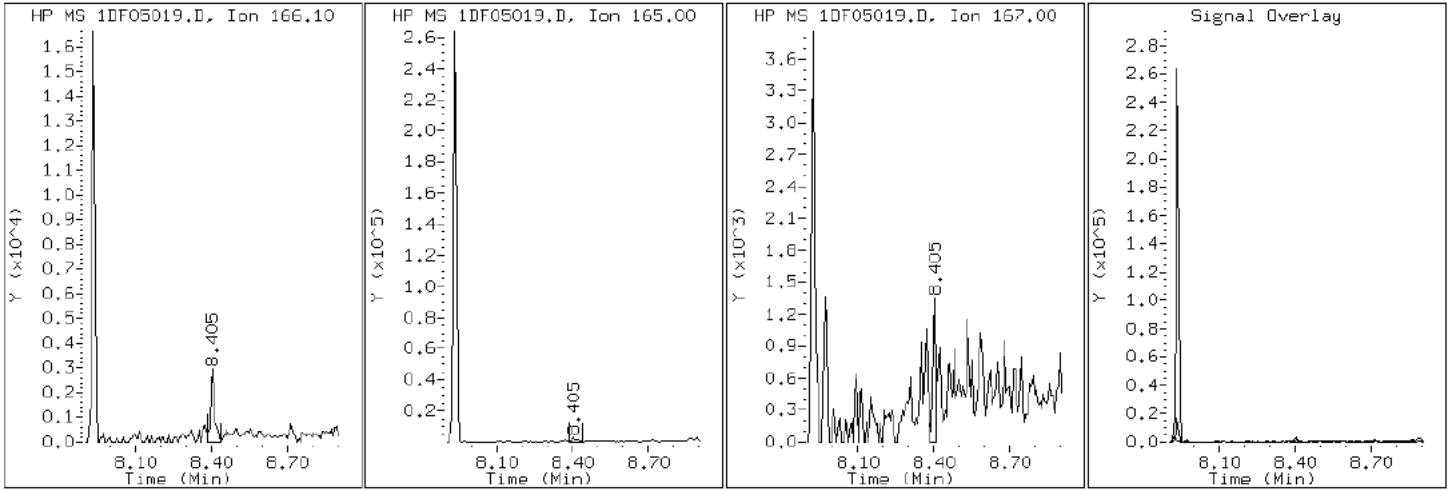
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

10 Fluorene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

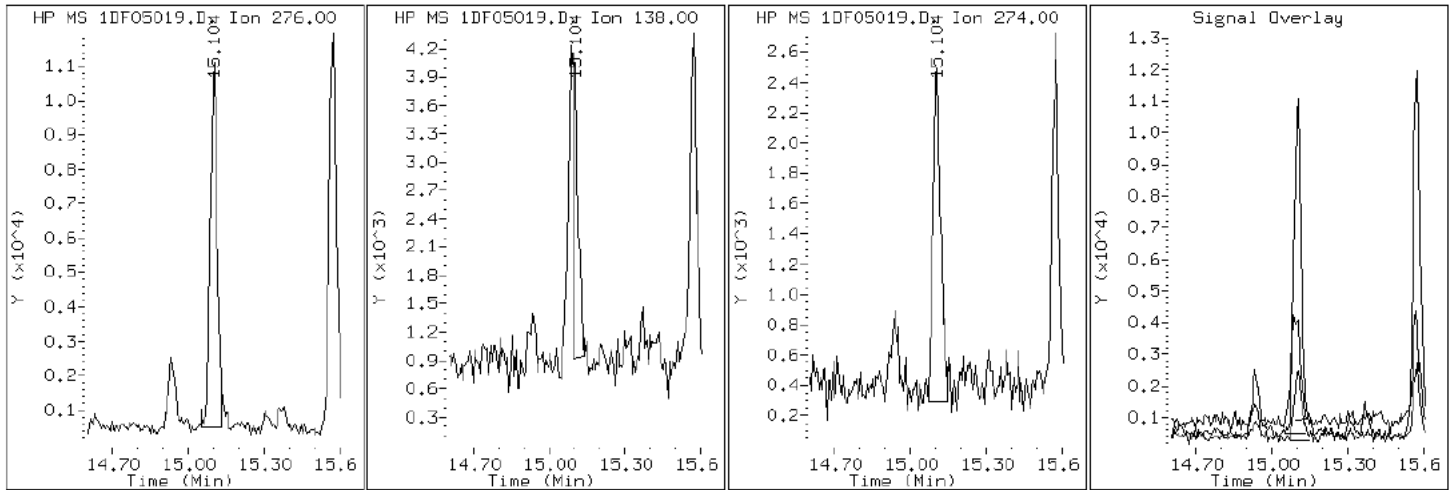
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

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



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

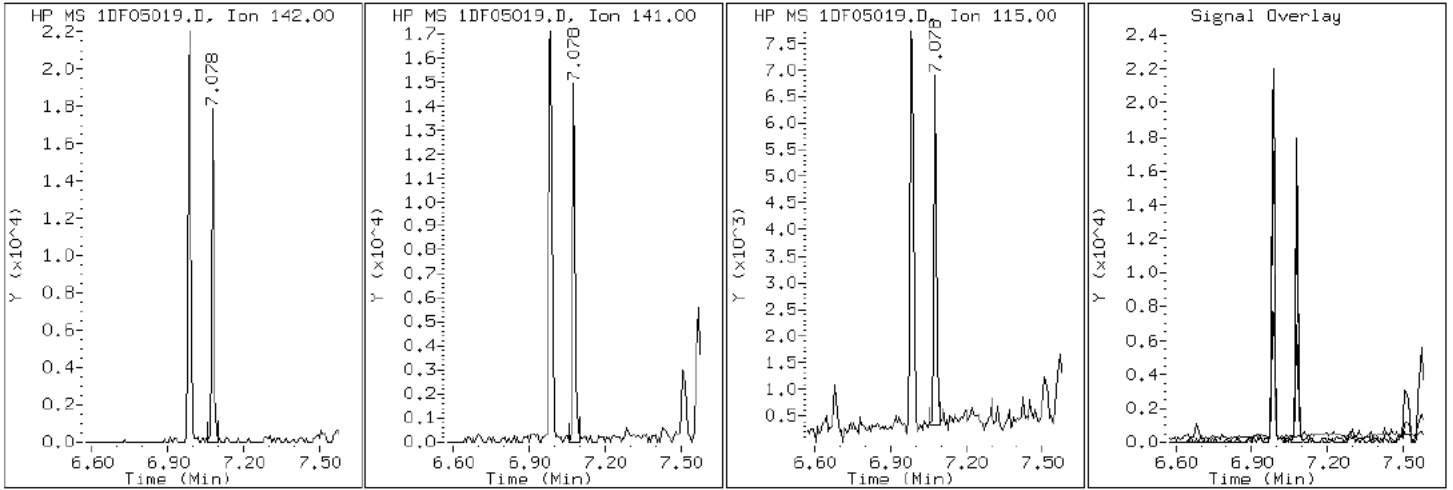
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

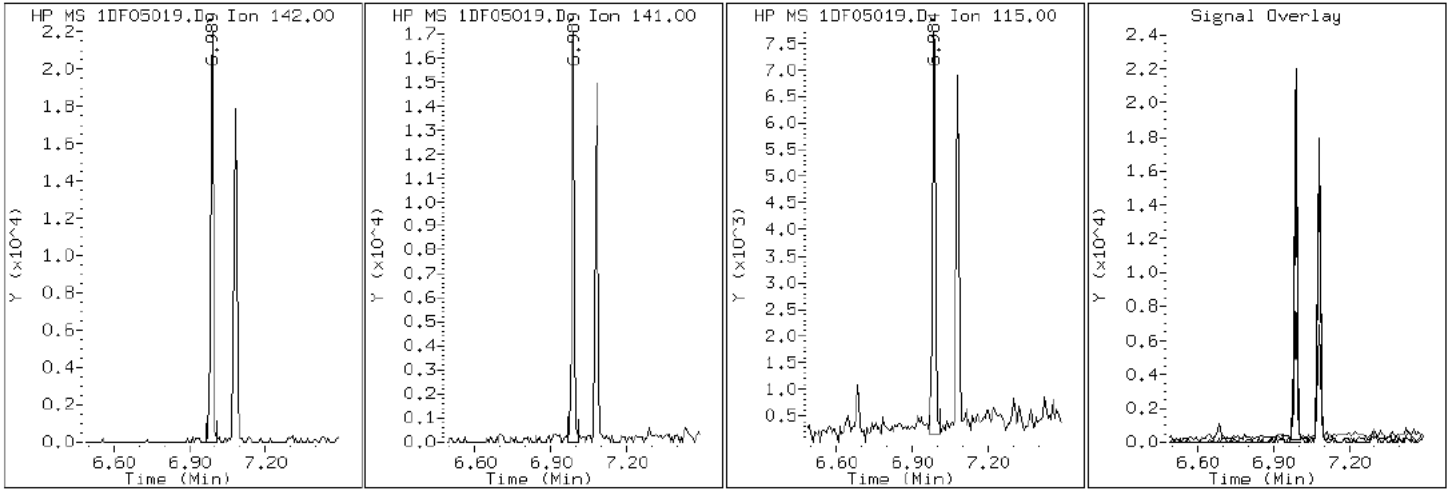
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

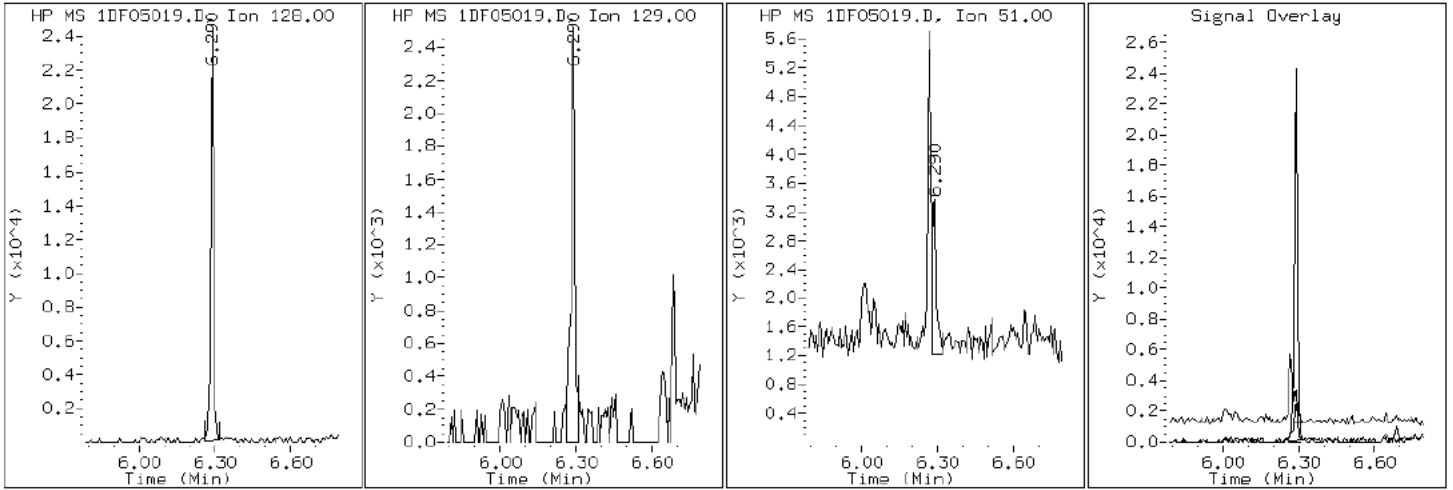
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

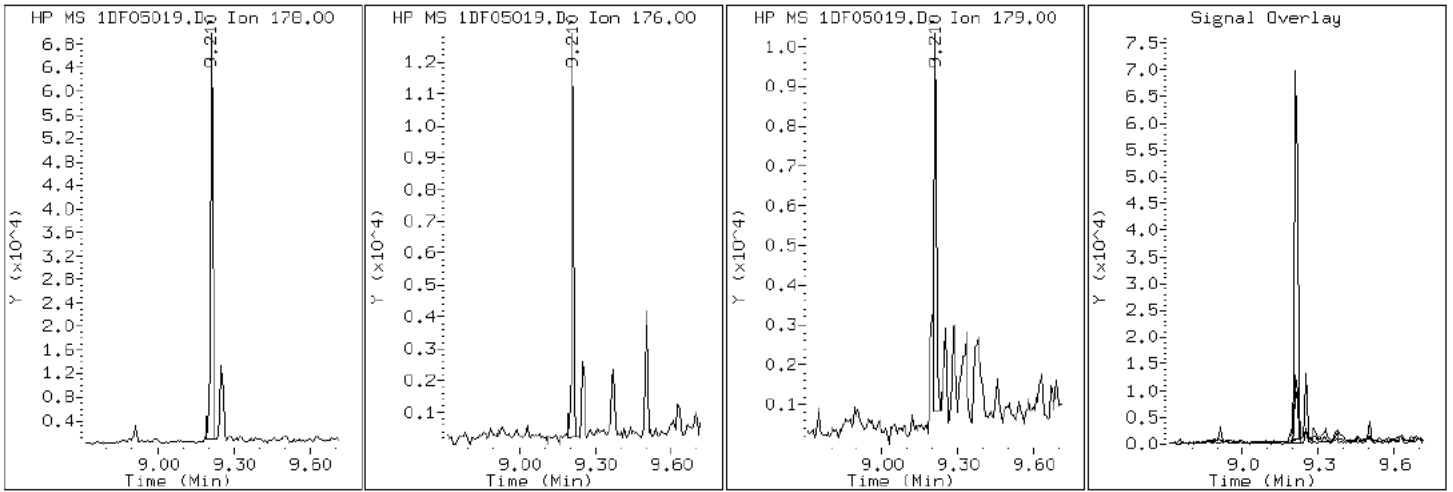
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05019.D

Date: 05-JUN-2013 17:55

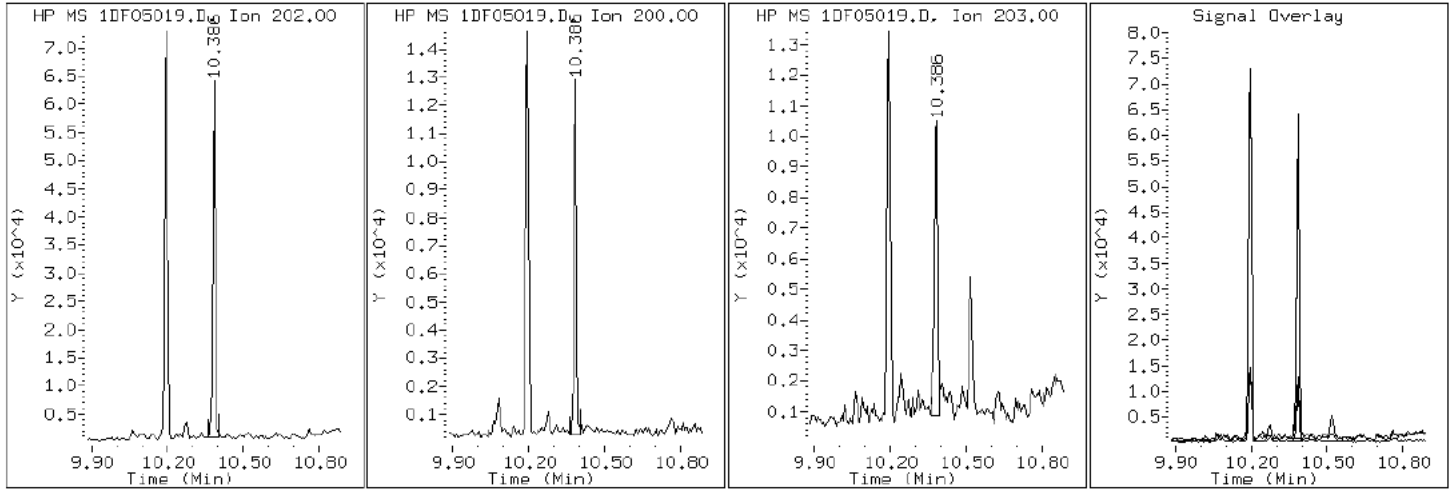
Client ID: CV1073B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-11-a

Operator: SCC

17 Pyrene

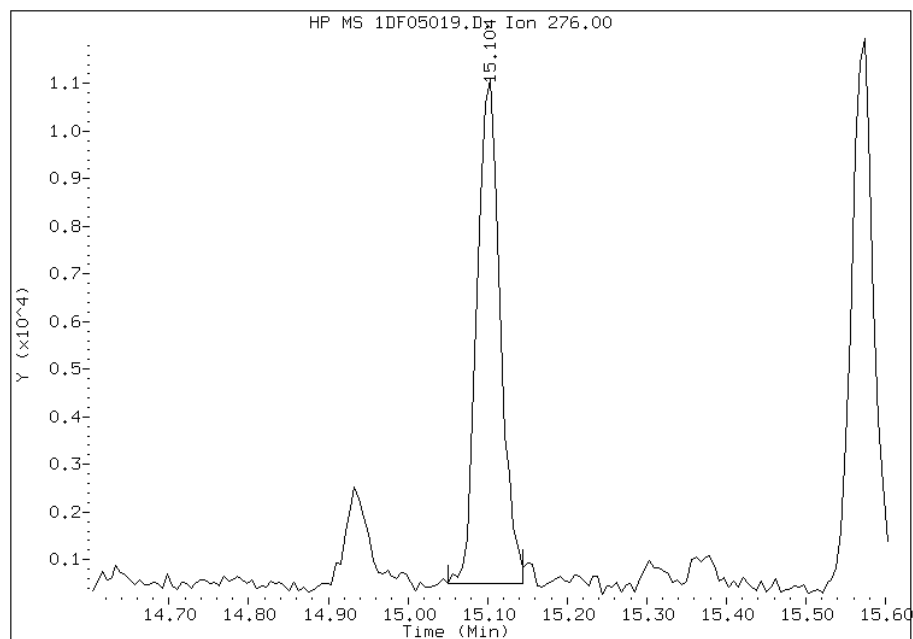


Manual Integration Report

Data File: 1DF05019.D
Inj. Date and Time: 05-JUN-2013 17:55
Instrument ID: BSMDS.i
Client ID: CV1073B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

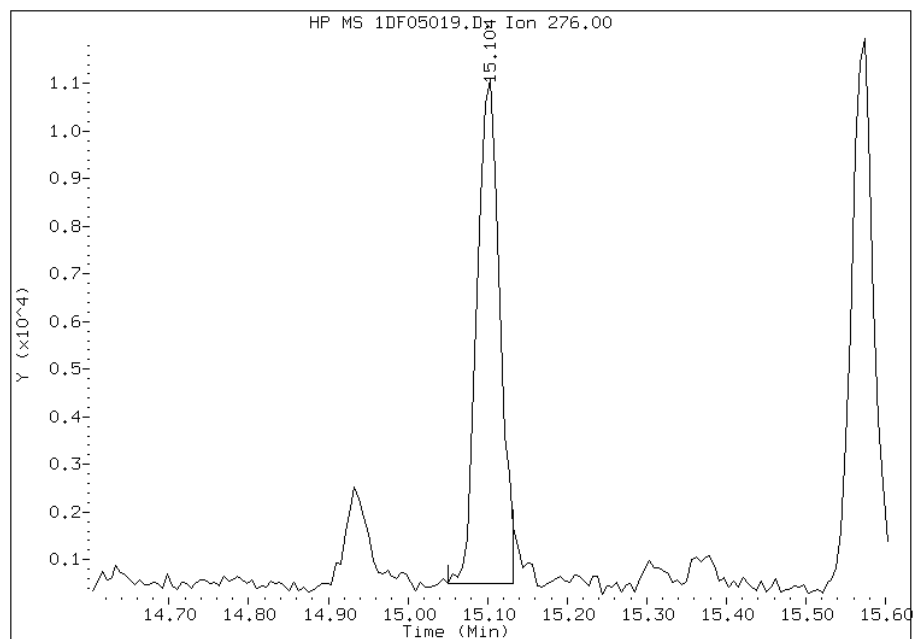
Processing Integration Results

RT: 15.10
Response: 21493
Amount: 0
Conc: 151



Manual Integration Results

RT: 15.10
Response: 21096
Amount: 0
Conc: 149



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0543A-CS-SP Lab Sample ID: 680-90686-12
 Matrix: Solid Lab File ID: 1DF05020.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:01
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.40(g) Date Analyzed: 06/05/2013 18:18
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 35.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	210	J	610	120
208-96-8	Acenaphthylene	100	J	240	30
120-12-7	Anthracene	550		51	26
56-55-3	Benzo[a]anthracene	960		49	24
50-32-8	Benzo[a]pyrene	940		63	32
205-99-2	Benzo[b]fluoranthene	1500		74	37
191-24-2	Benzo[g,h,i]perylene	530		120	27
207-08-9	Benzo[k]fluoranthene	510		49	22
218-01-9	Chrysene	1200		55	27
53-70-3	Dibenz(a,h)anthracene	170		120	25
206-44-0	Fluoranthene	2100		120	24
86-73-7	Fluorene	210		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	560		120	43
90-12-0	1-Methylnaphthalene	240		240	27
91-57-6	2-Methylnaphthalene	350		240	43
91-20-3	Naphthalene	370		240	27
85-01-8	Phenanthrene	1900		49	24
129-00-0	Pyrene	1700		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05020.D
 Lab Smp Id: 680-90686-A-12-A Client Smp ID: CV0543A-CS-SP
 Inj Date : 05-JUN-2013 18:18
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-12-a
 Misc Info : 680-90686-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 20
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.400	Weight Extracted
M	35.881	% 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		6.267	6.265	(1.000)	3201535	40.0000	
* 7 Acenaphthene-d10	164		7.936	7.934	(1.000)	1734837	40.0000	
* 11 Phenanthrene-d10	188		9.199	9.191	(1.000)	2697442	40.0000	
\$ 15 o-Terphenyl	230		9.505	9.503	(1.033)	105028	2.65771	1100
* 19 Chrysene-d12	240		11.561	11.553	(1.000)	2523927	40.0000	
* 24 Perylene-d12	264		13.470	13.457	(1.000)	2851152	40.0000	
2 Naphthalene	128		6.291	6.289	(1.004)	72372	0.91666	370
3 2-Methylnaphthalene	142		6.984	6.988	(1.114)	43187	0.85911	350
4 1-Methylnaphthalene	142		7.078	7.076	(1.129)	30164	0.58285	240
5 1,1'-Biphenyl	154		7.425	7.423	(0.936)	11013	0.18790	76
6 Acenaphthylene	152		7.807	7.811	(0.984)	18147	0.25229	100
8 Acenaphthene	154		7.965	7.963	(1.004)	24161	0.52950	210
9 Dibenzofuran	168		8.112	8.110	(1.022)	32410	0.51513	210
10 Fluorene	166		8.406	8.404	(1.059)	27339	0.52954	210

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.211	9.215	(1.001)	346934	4.74890	1900
13 Anthracene	178	9.252	9.256	(1.006)	95939	1.35346	550
16 Fluoranthene	202	10.198	10.196	(1.109)	392221	5.24791	2100
17 Pyrene	202	10.386	10.384	(0.898)	318119	4.30504	1700
18 Benzo(a)anthracene	228	11.543	11.542	(0.998)	177475	2.36934	960
20 Chrysene	228	11.584	11.583	(1.002)	194461	2.88303	1200
21 Benzo(b)fluoranthene	252	12.901	12.893	(0.958)	272927	3.82102	1500
22 Benzo(k)fluoranthene	252	12.930	12.934	(0.960)	93593	1.25126	510
23 Benzo(a)pyrene	252	13.359	13.363	(0.992)	156673	2.31409	940
25 Indeno(1,2,3-cd)pyrene	276	15.104	15.102	(1.121)	92212	1.39230	560(M)
26 Dibenzo(a,h)anthracene	278	15.133	15.137	(1.123)	24231	0.42756	170
27 Benzo(g,h,i)perylene	276	15.574	15.572	(1.156)	84560	1.30616	530

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05020.D

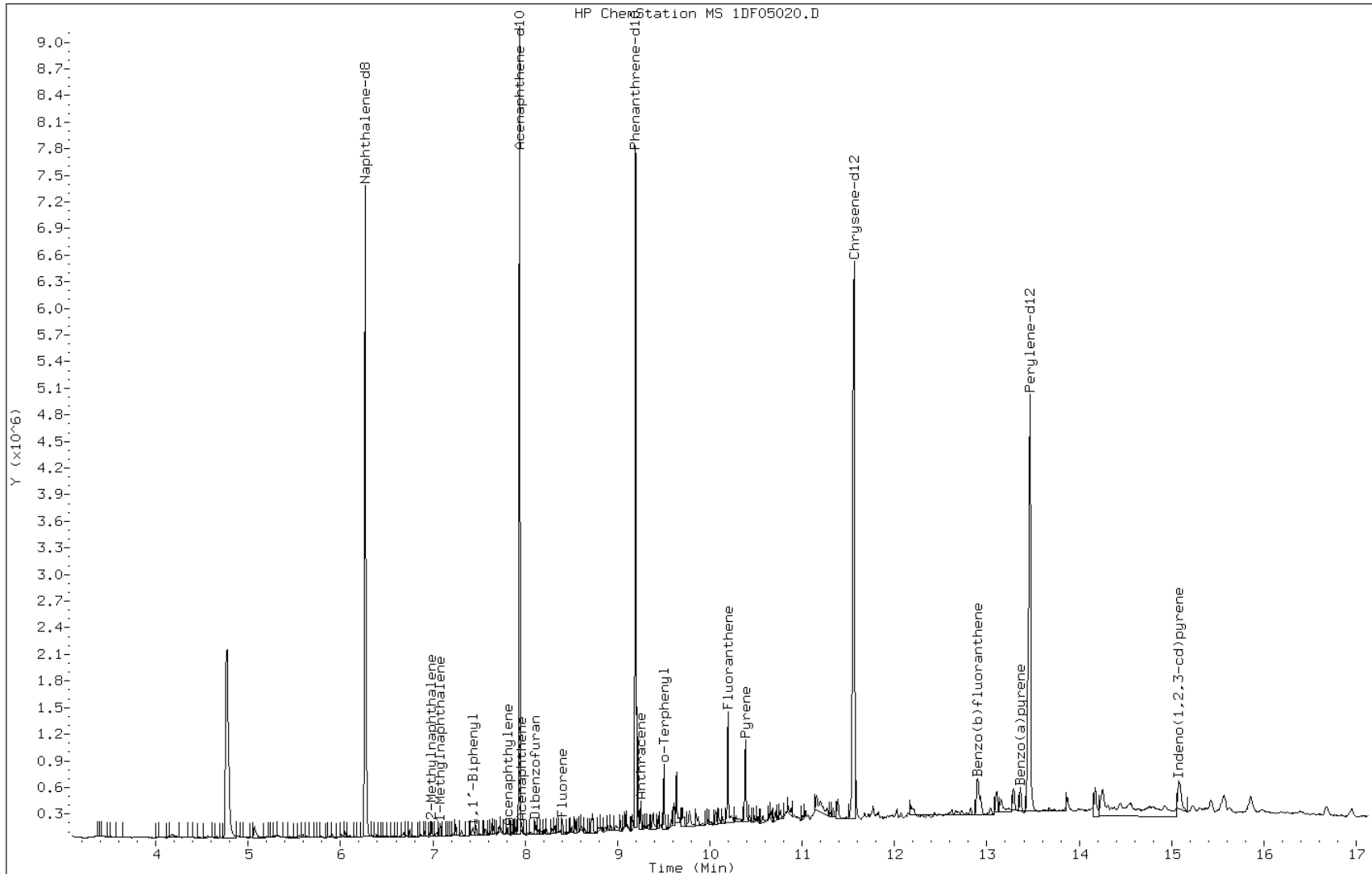
Date: 05-JUN-2013 18:18

Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

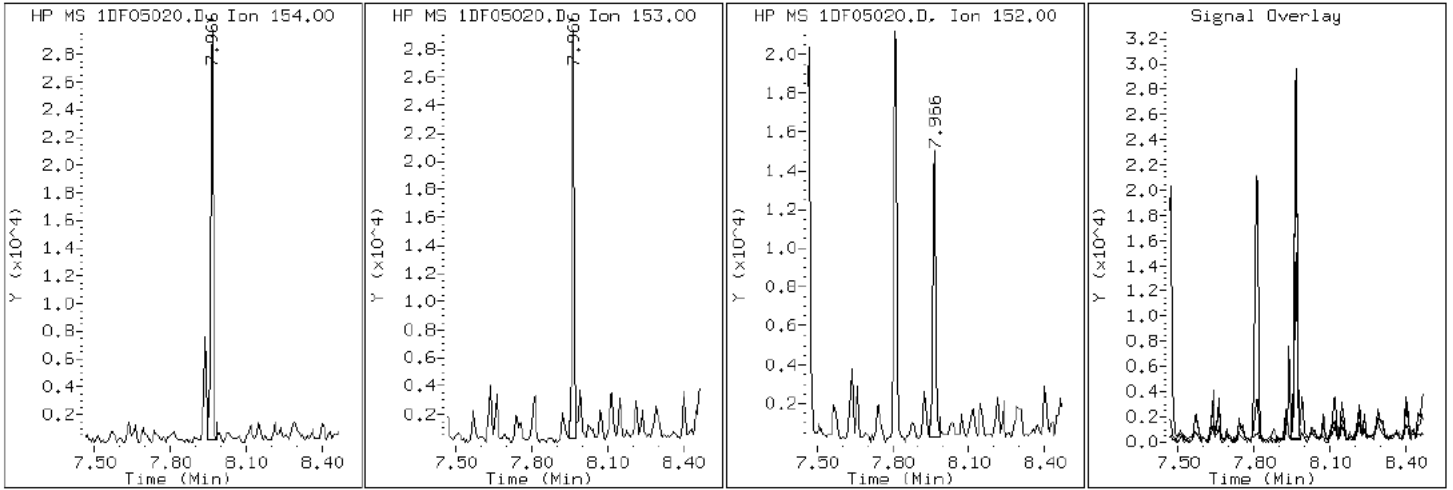
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

8 Acenaphthene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

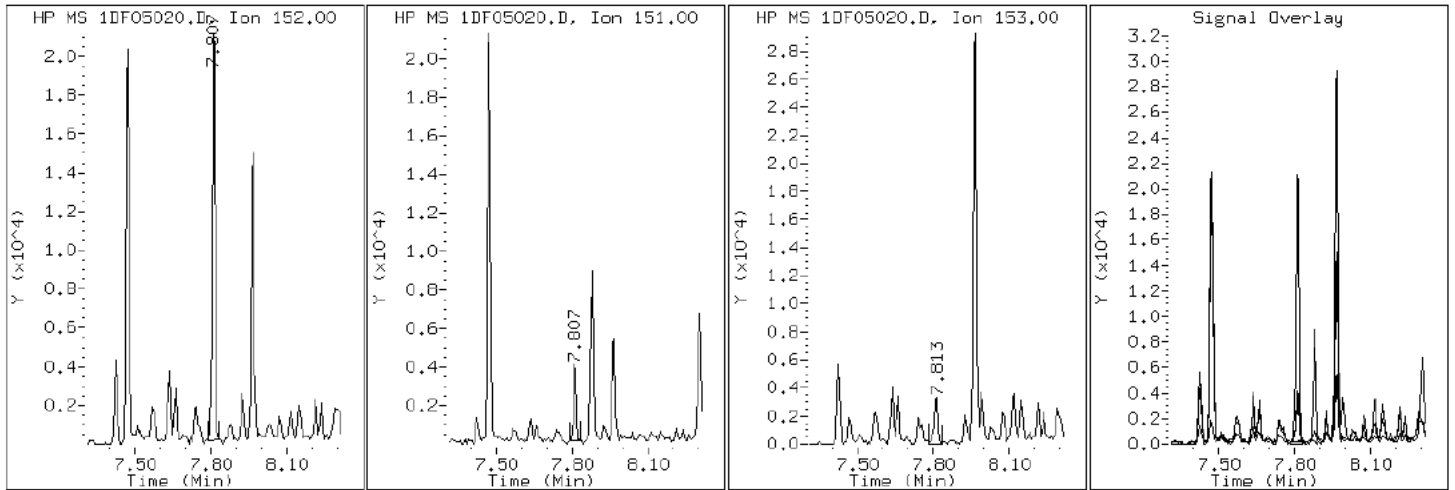
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

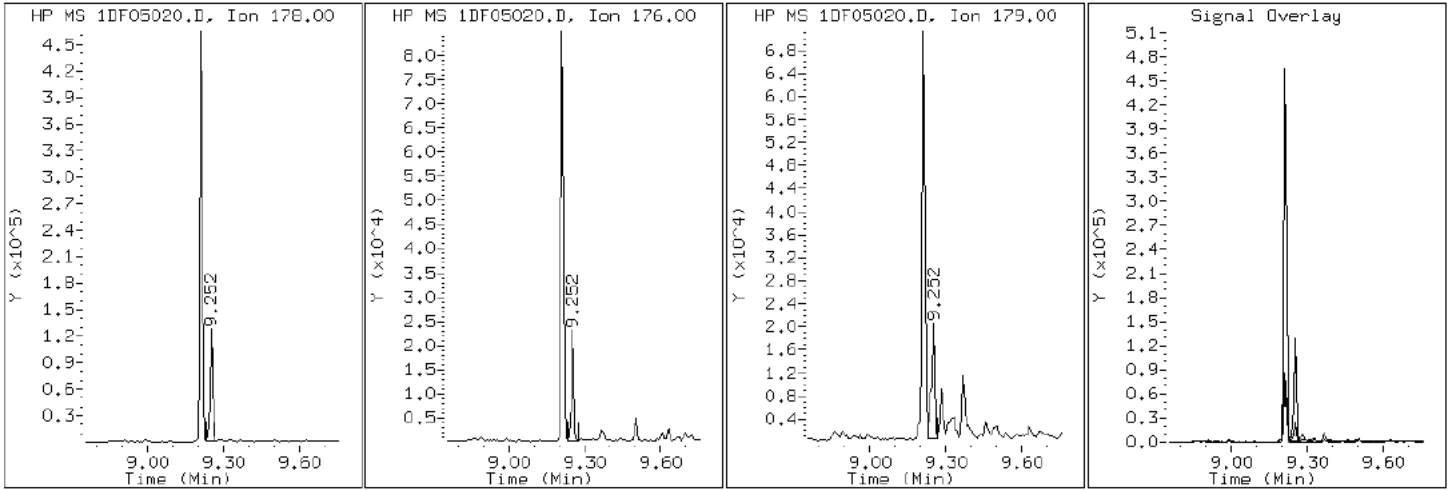
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

13 Anthracene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

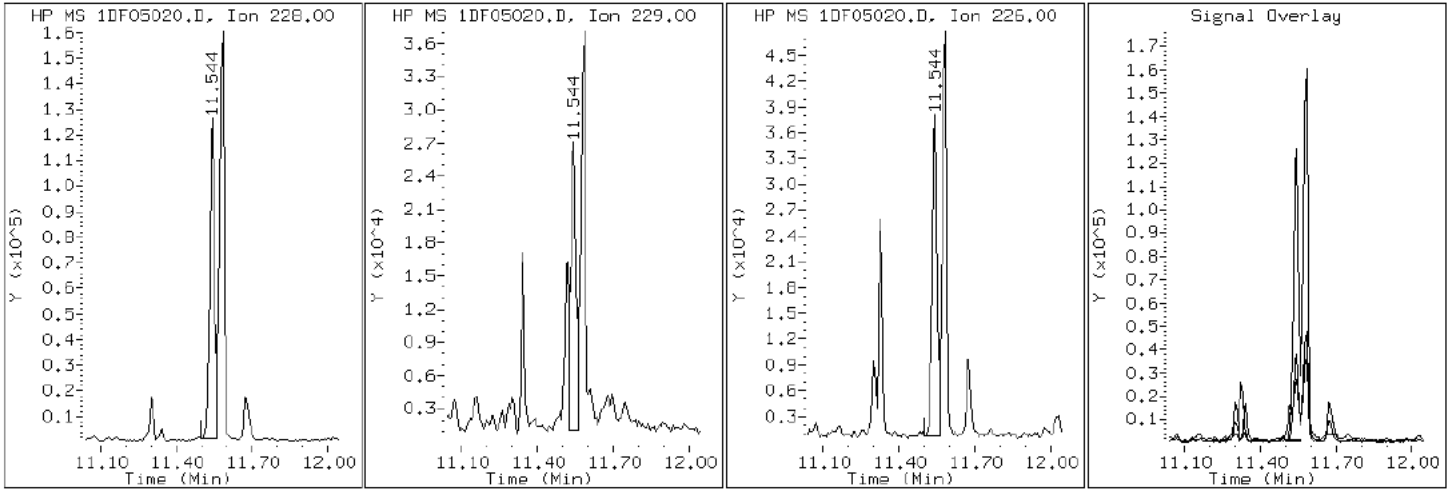
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

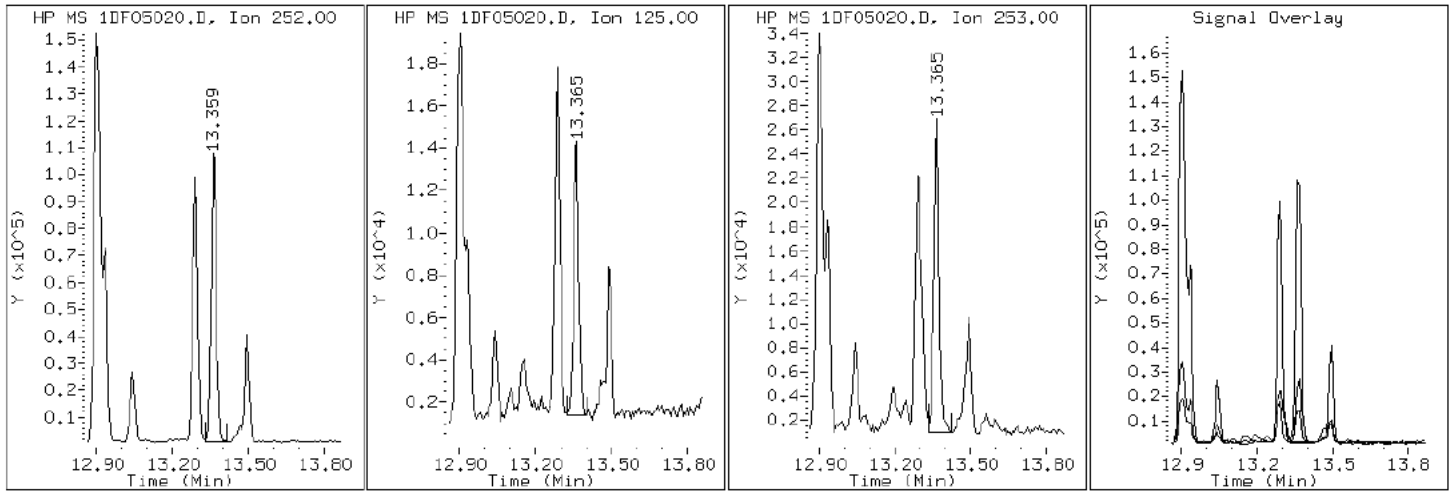
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

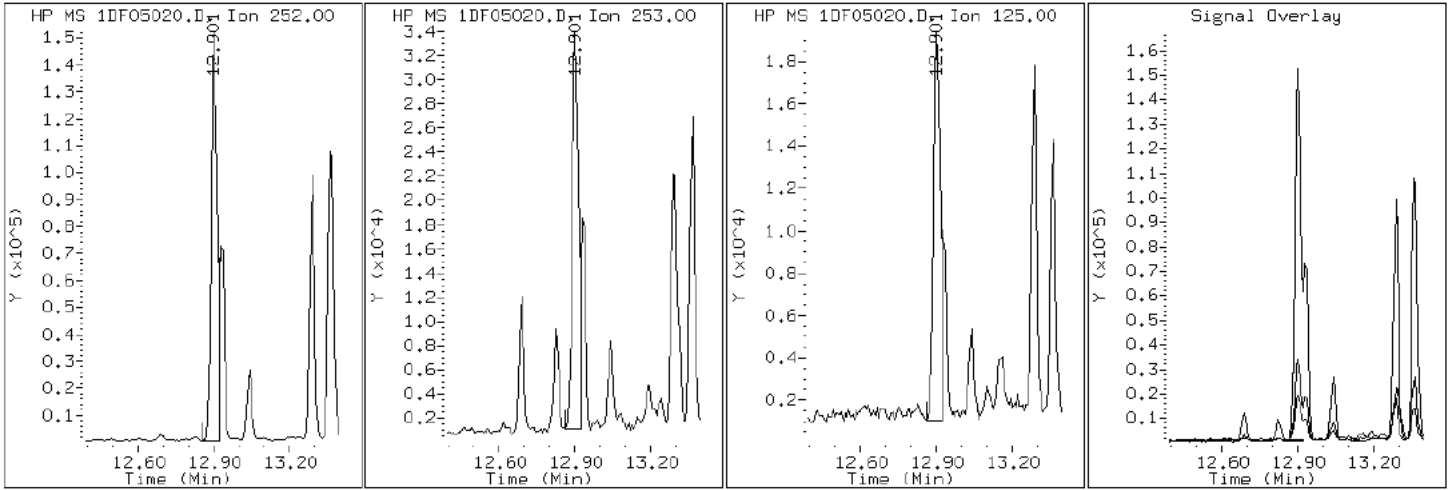
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

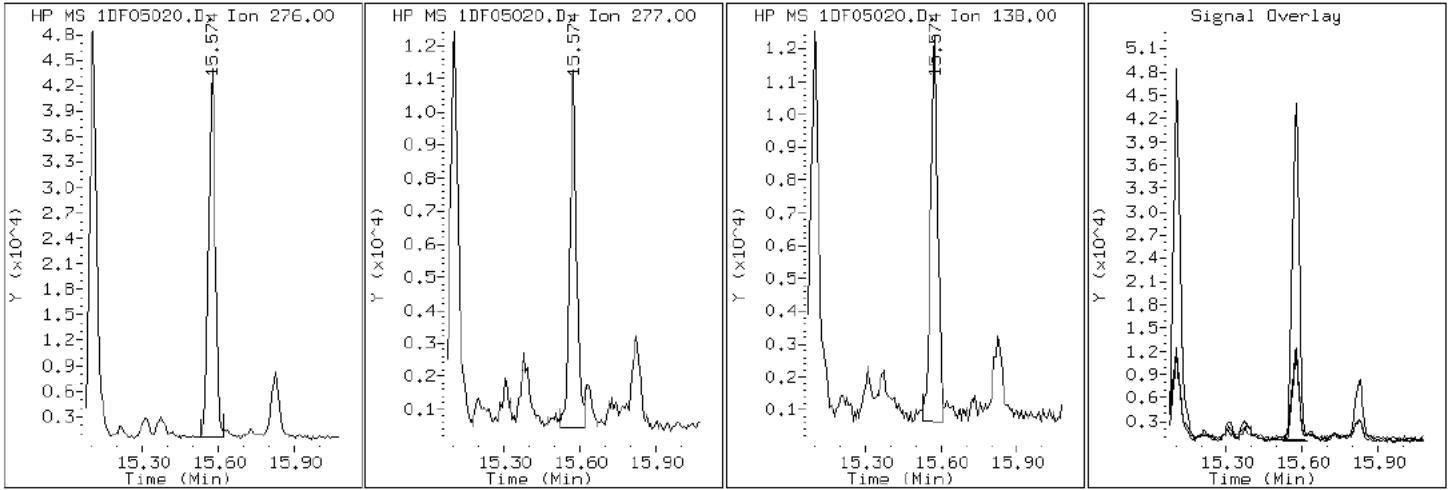
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

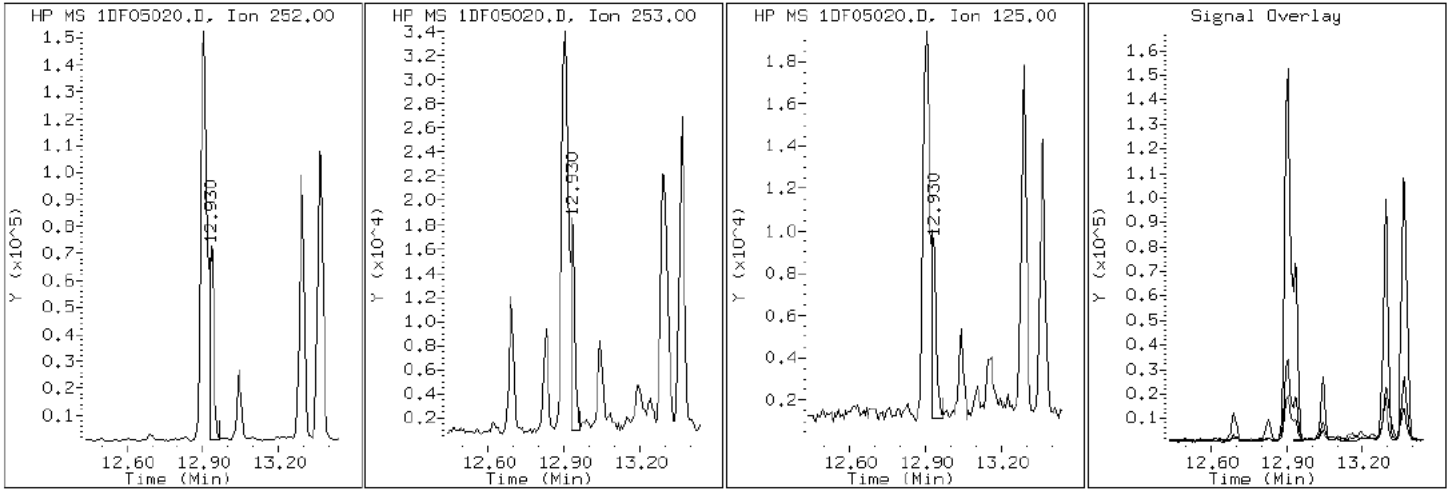
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

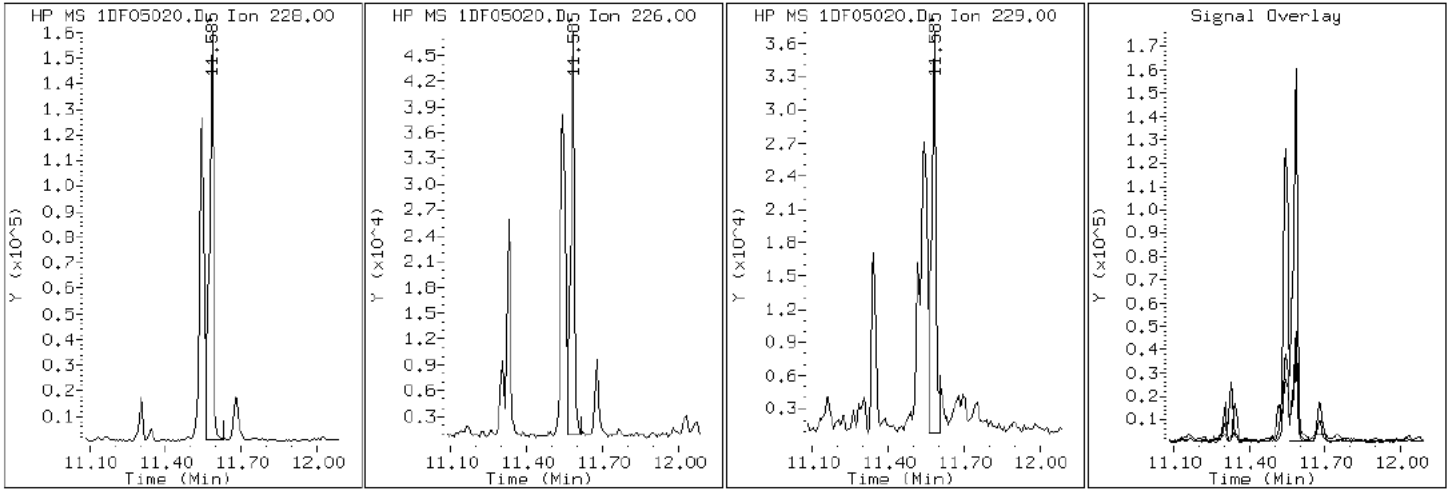
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

20 Chrysene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

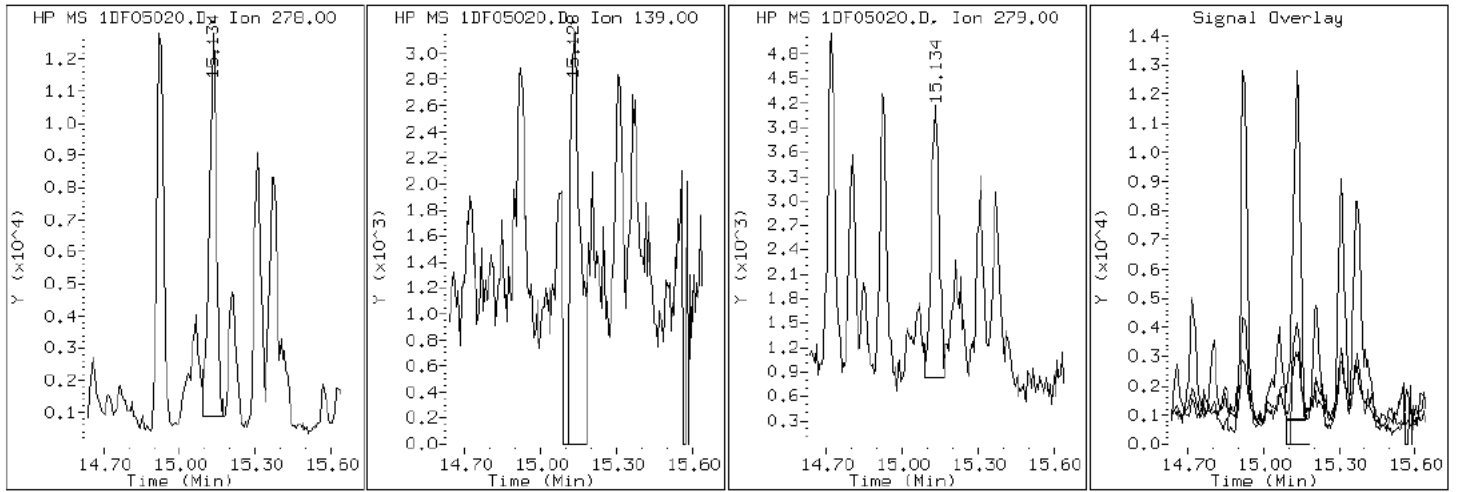
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

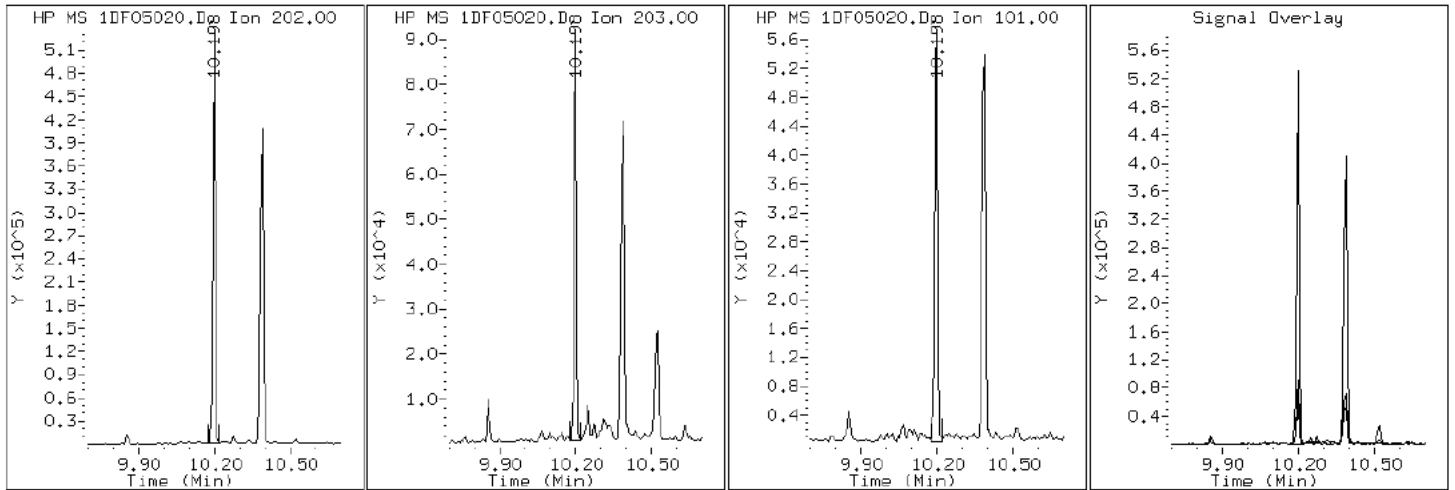
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

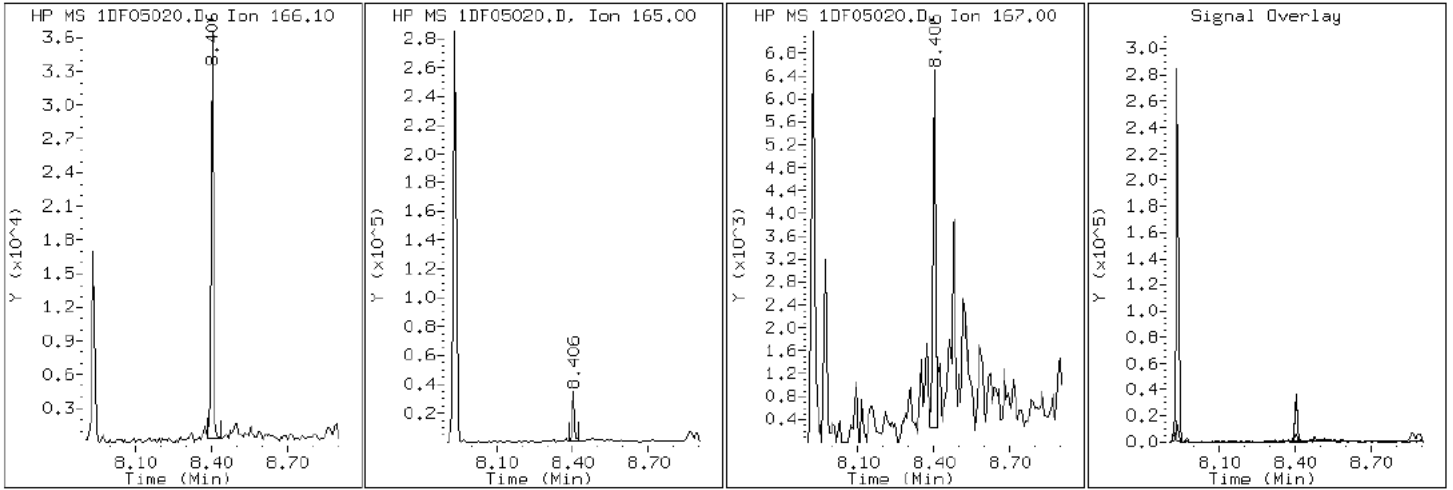
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

10 Fluorene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

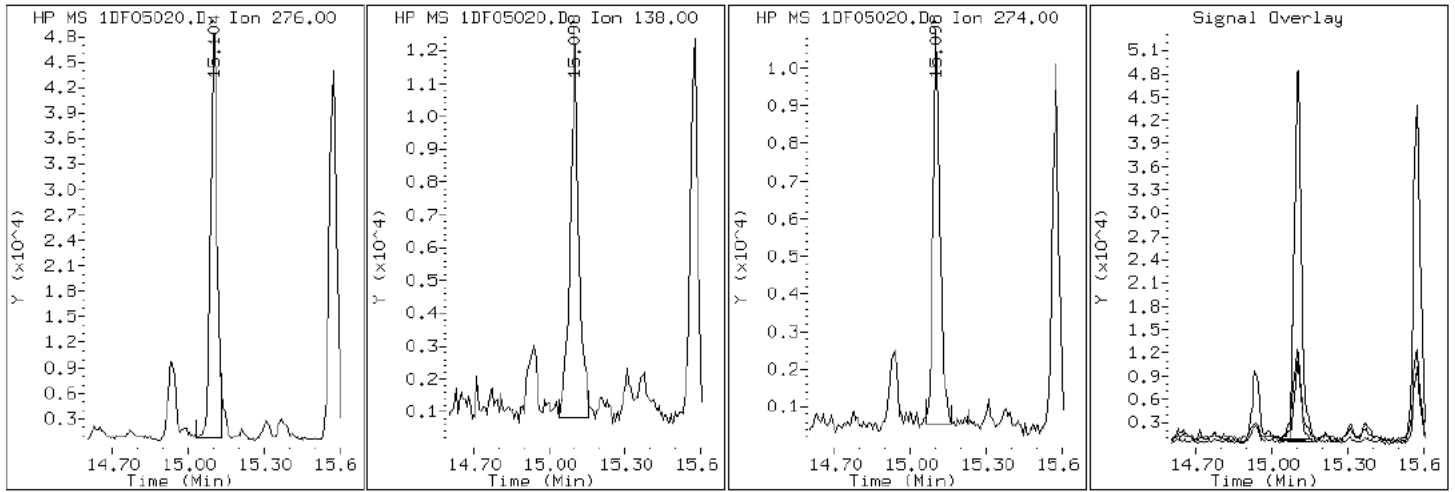
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

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



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

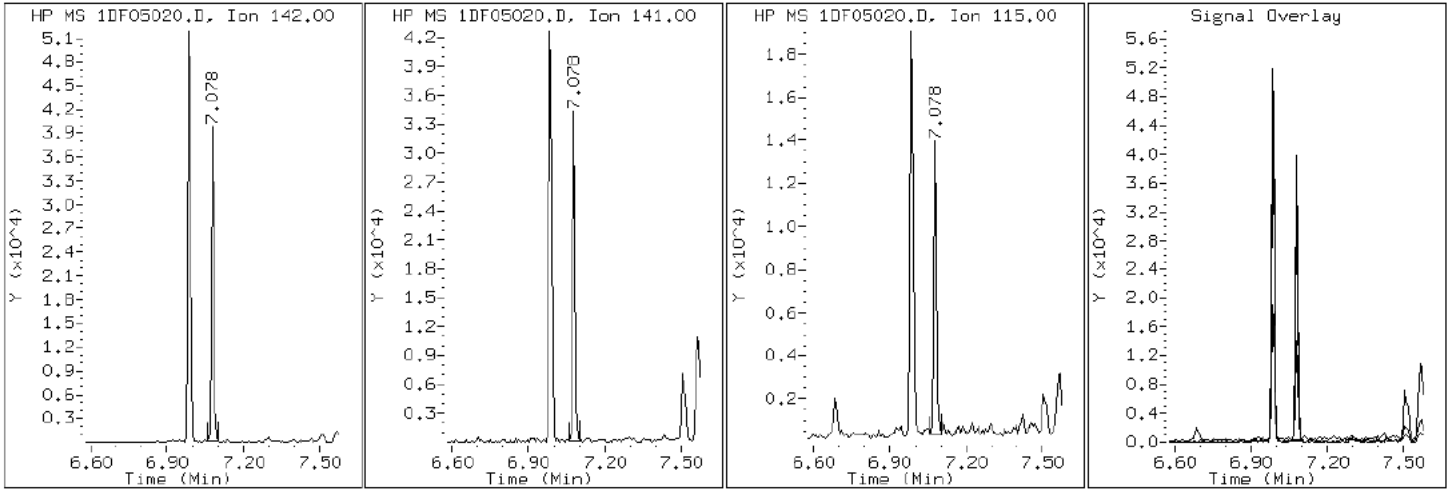
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

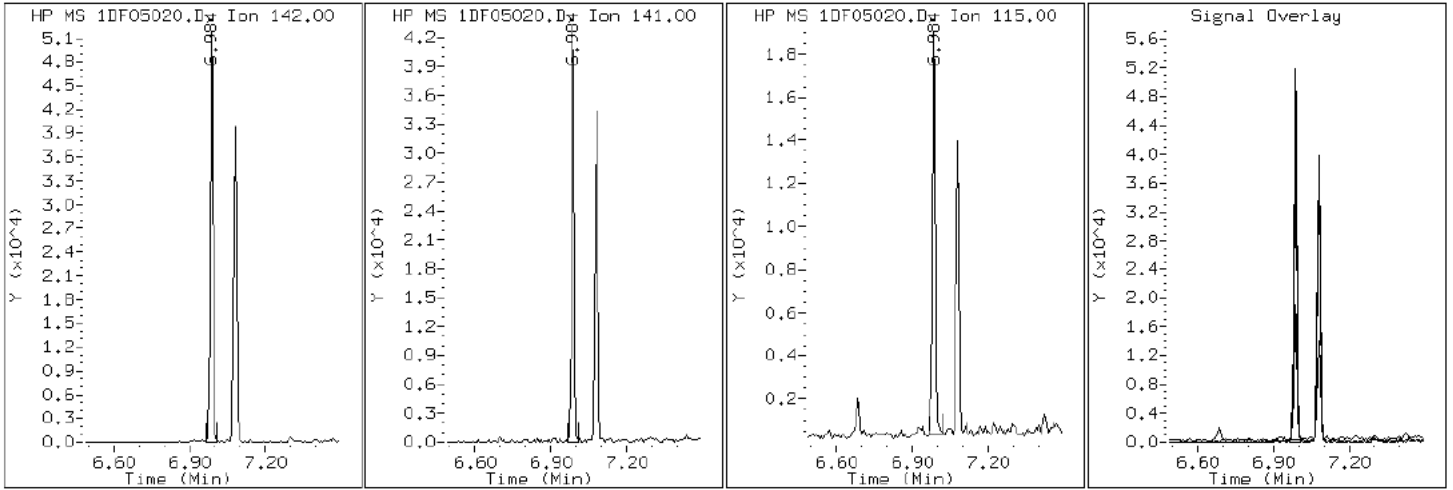
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

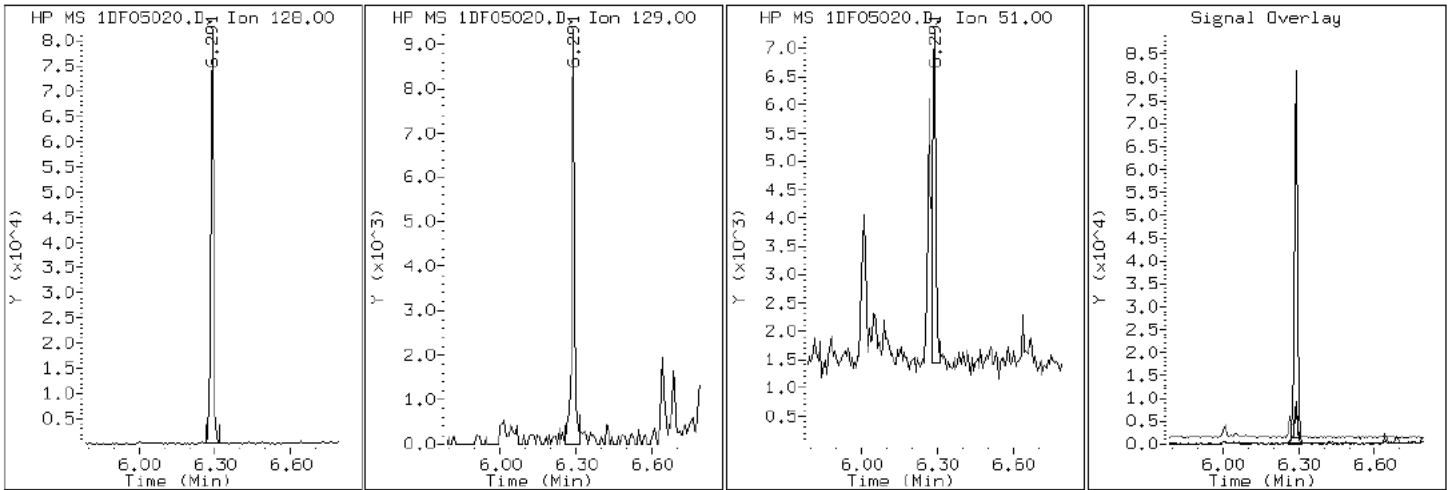
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

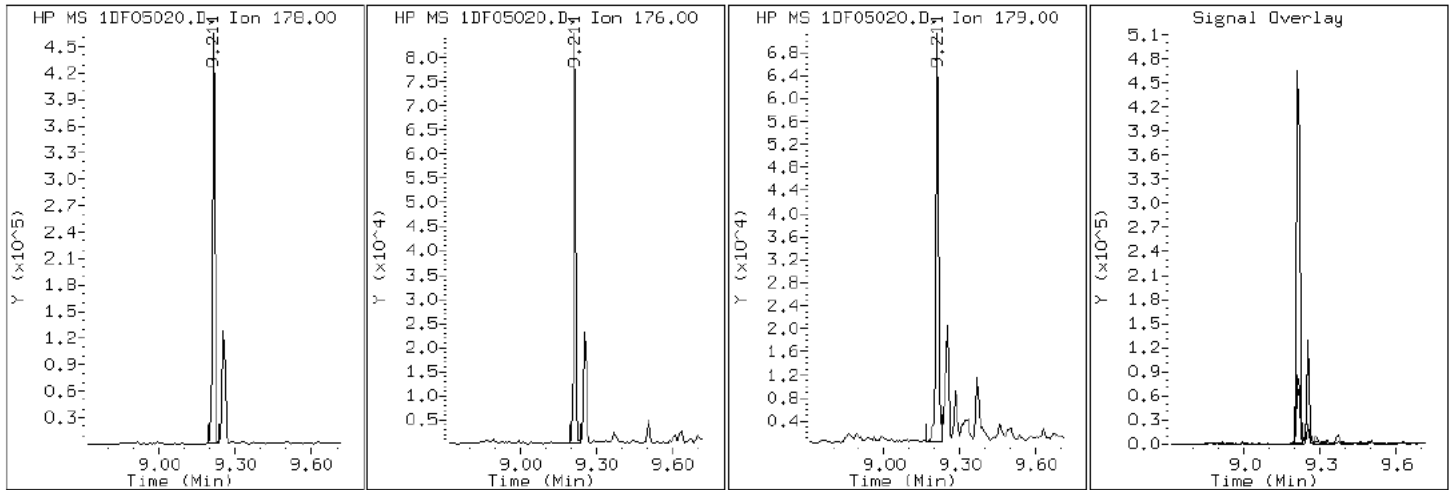
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05020.D

Date: 05-JUN-2013 18:18

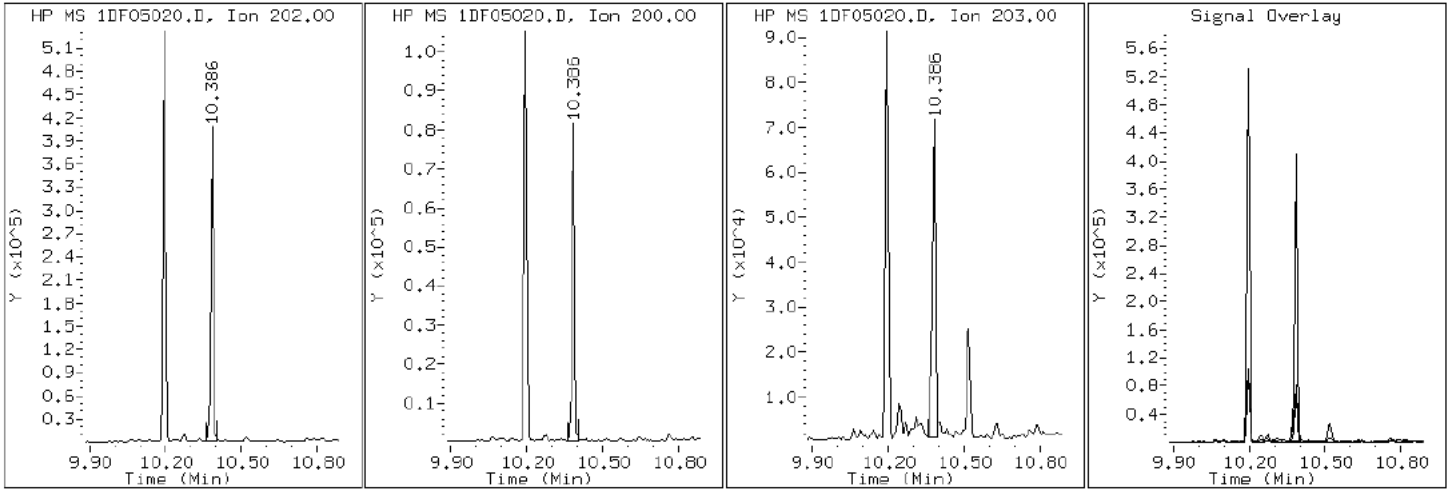
Client ID: CV0543A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-12-a

Operator: SCC

17 Pyrene

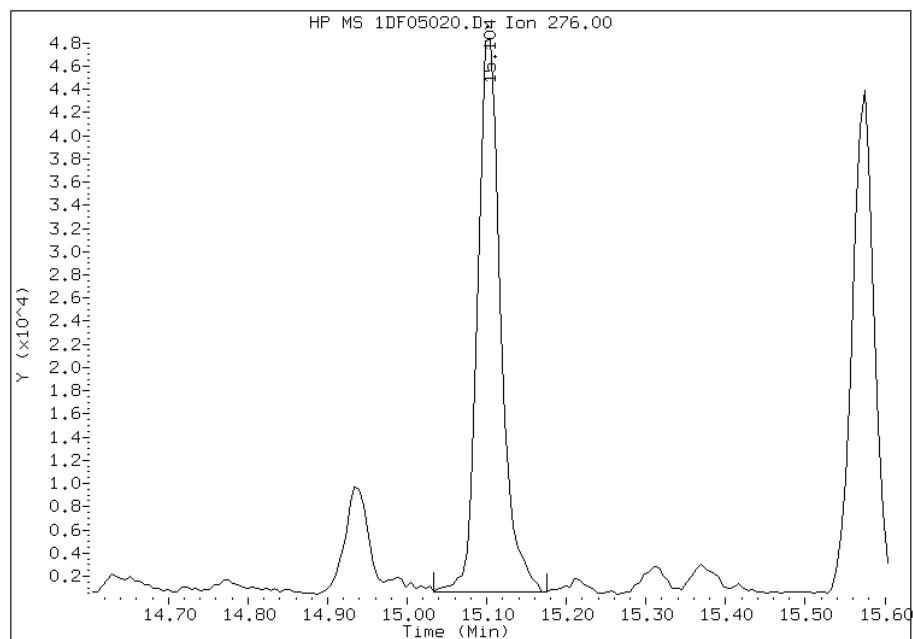


Manual Integration Report

Data File: 1DF05020.D
Inj. Date and Time: 05-JUN-2013 18:18
Instrument ID: BSMSD.i
Client ID: CV0543A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

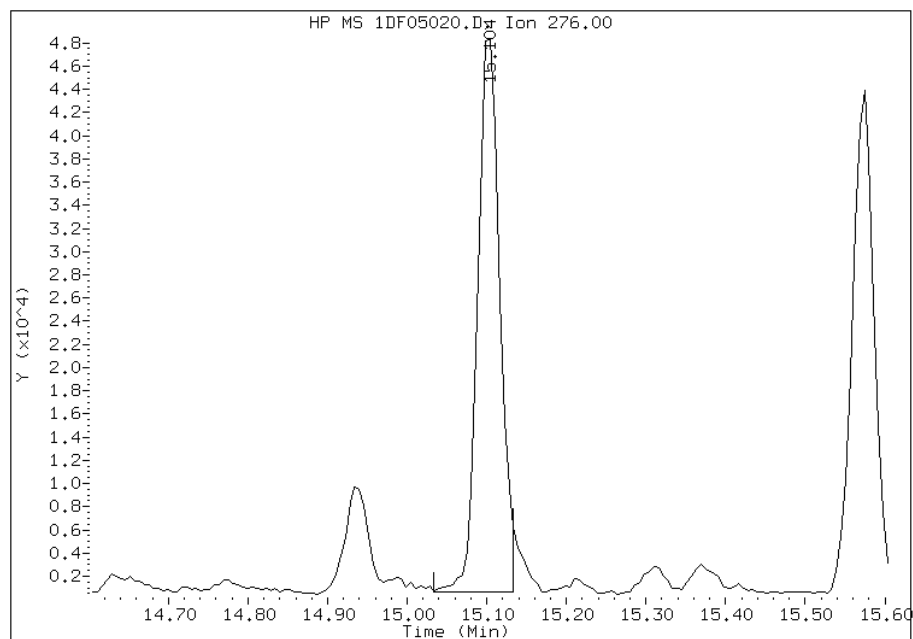
Processing Integration Results

RT: 15.10
Response: 95917
Amount: 1
Conc: 584



Manual Integration Results

RT: 15.10
Response: 92212
Amount: 1
Conc: 564



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0543B-CS-SP Lab Sample ID: 680-90686-13
 Matrix: Solid Lab File ID: 1DF05021.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:14
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.15(g) Date Analyzed: 06/05/2013 18:41
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	72	J	220	27
120-12-7	Anthracene	110		46	23
56-55-3	Benzo[a]anthracene	290		43	21
50-32-8	Benzo[a]pyrene	330		56	28
205-99-2	Benzo[b]fluoranthene	580		66	33
191-24-2	Benzo[g,h,i]perylene	210		110	24
207-08-9	Benzo[k]fluoranthene	170		43	20
218-01-9	Chrysene	410		49	24
53-70-3	Dibenz(a,h)anthracene	96	J	110	22
206-44-0	Fluoranthene	400		110	22
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	250		110	38
90-12-0	1-Methylnaphthalene	180	J	220	24
91-57-6	2-Methylnaphthalene	230		220	38
91-20-3	Naphthalene	170	J	220	24
85-01-8	Phenanthrene	310		43	21
129-00-0	Pyrene	350		110	20

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05021.D
 Lab Smp Id: 680-90686-A-13-A Client Smp ID: CV0543B-CS-SP
 Inj Date : 05-JUN-2013 18:41
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-13-a
 Misc Info : 680-90686-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 21
 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	26.907	% 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		6.266	6.265	(1.000)	3061812	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.934	(1.000)	1632060	40.0000	
* 11 Phenanthrene-d10	188		9.198	9.191	(1.000)	2576098	40.0000	
\$ 15 o-Terphenyl	230		9.504	9.503	(1.033)	92492	2.45073	880
* 19 Chrysene-d12	240		11.560	11.553	(1.000)	2484319	40.0000	
* 24 Perylene-d12	264		13.464	13.457	(1.000)	2857364	40.0000	
2 Naphthalene	128		6.290	6.289	(1.004)	34575	0.45791	160
3 2-Methylnaphthalene	142		6.989	6.988	(1.115)	30845	0.64159	230
4 1-Methylnaphthalene	142		7.077	7.076	(1.129)	24176	0.48847	180
5 1,1'-Biphenyl	154		7.424	7.423	(0.936)	5160	0.09358	34
6 Acenaphthylene	152		7.811	7.811	(0.984)	13426	0.19841	72
9 Dibenzofuran	168		8.111	8.110	(1.022)	13038	0.22028	80
10 Fluorene	166		8.405	8.404	(1.059)	2443	0.05030	18(Q)
12 Phenanthrene	178		9.210	9.215	(1.001)	59235	0.84901	310

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.251	9.256 (1.006)		20983	0.30996	110
16 Fluoranthene	202	10.197	10.196 (1.109)		78352	1.09773	400
17 Pyrene	202	10.385	10.384 (0.898)		71319	0.98053	350
18 Benzo(a)anthracene	228	11.542	11.542 (0.998)		58590	0.79466	290
20 Chrysene	228	11.583	11.583 (1.002)		75910	1.14337	410
21 Benzo(b)fluoranthene	252	12.900	12.893 (0.958)		114834	1.60420	580
22 Benzo(k)fluoranthene	252	12.929	12.934 (0.960)		34537	0.46073	170(Q)
23 Benzo(a)pyrene	252	13.364	13.363 (0.993)		57164	0.90511	330
25 Indeno(1,2,3-cd)pyrene	276	15.097	15.102 (1.121)		39927	0.68562	250(M)
26 Dibenzo(a,h)anthracene	278	15.132	15.137 (1.124)		13286	0.26652	96
27 Benzo(g,h,i)perylene	276	15.573	15.572 (1.157)		37428	0.57688	210

QC Flag Legend

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

Data File: 1DF05021.D

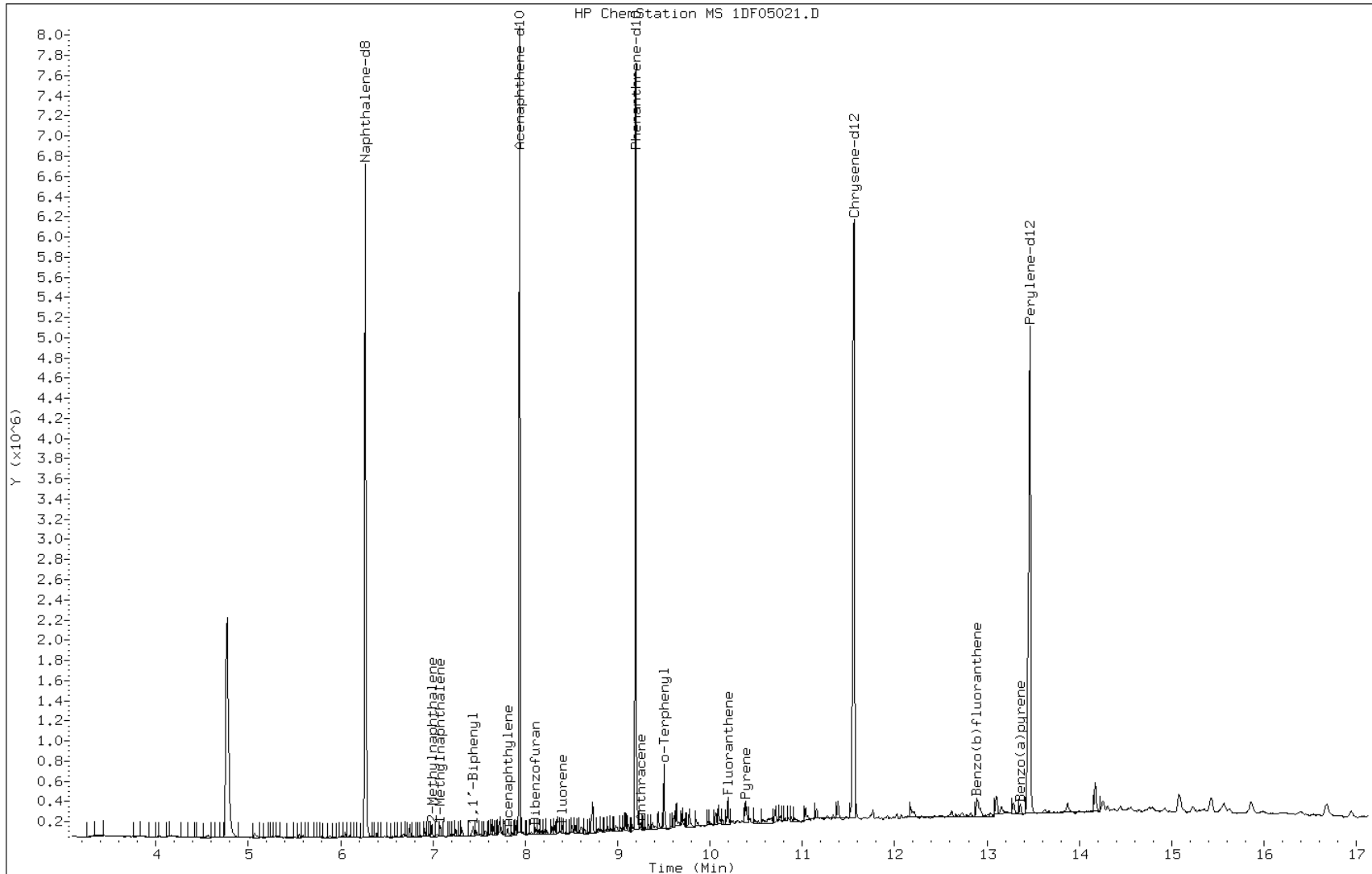
Date: 05-JUN-2013 18:41

Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

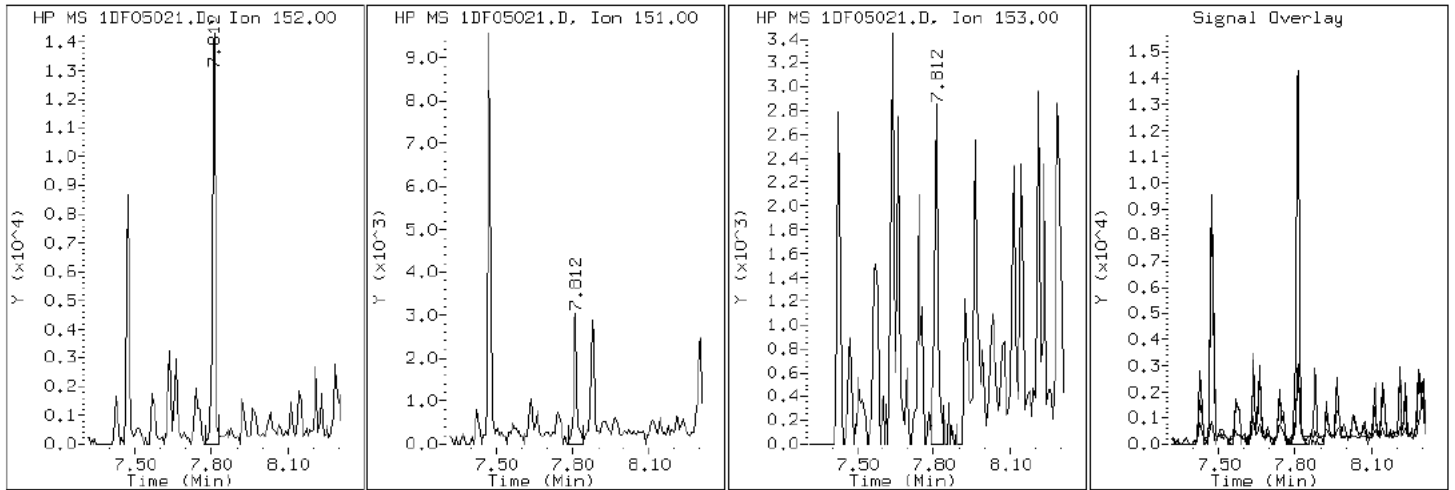
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

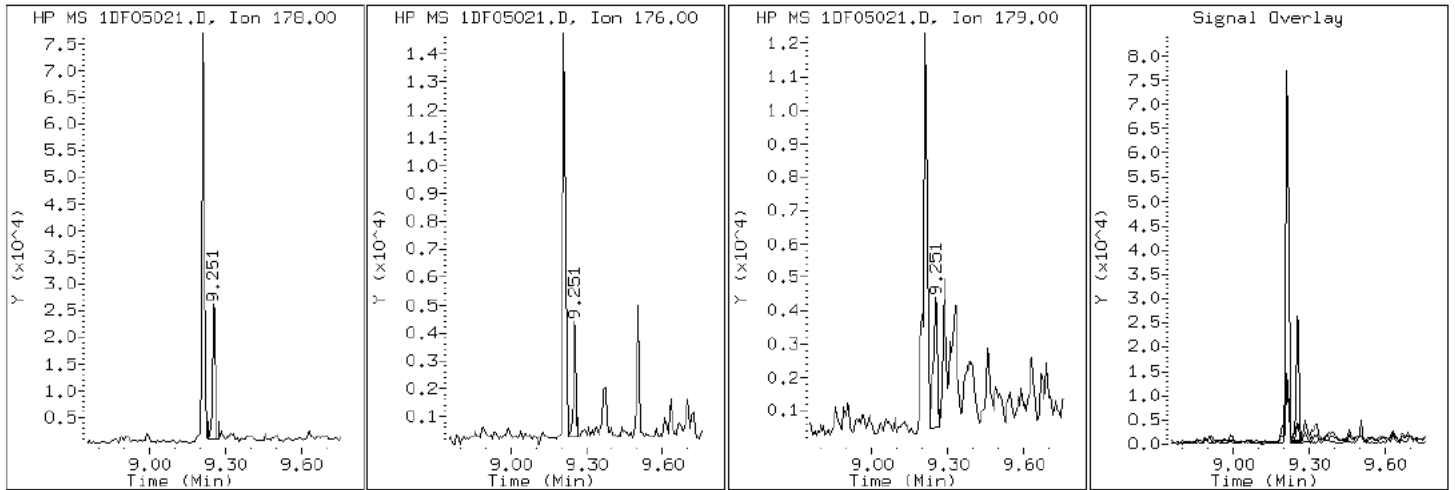
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

13 Anthracene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

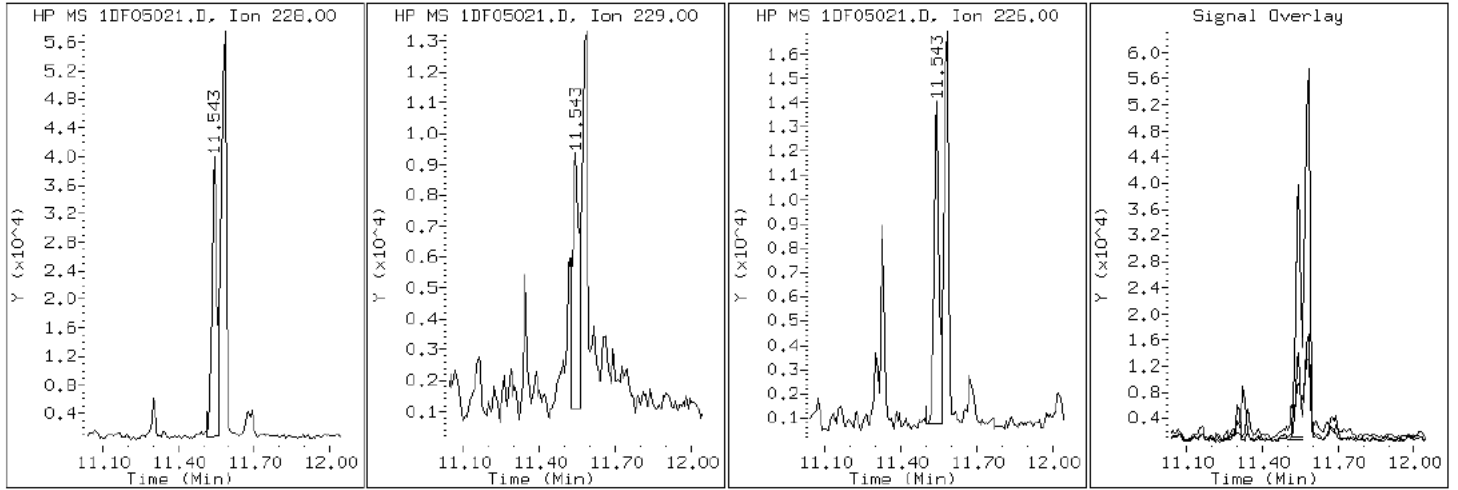
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

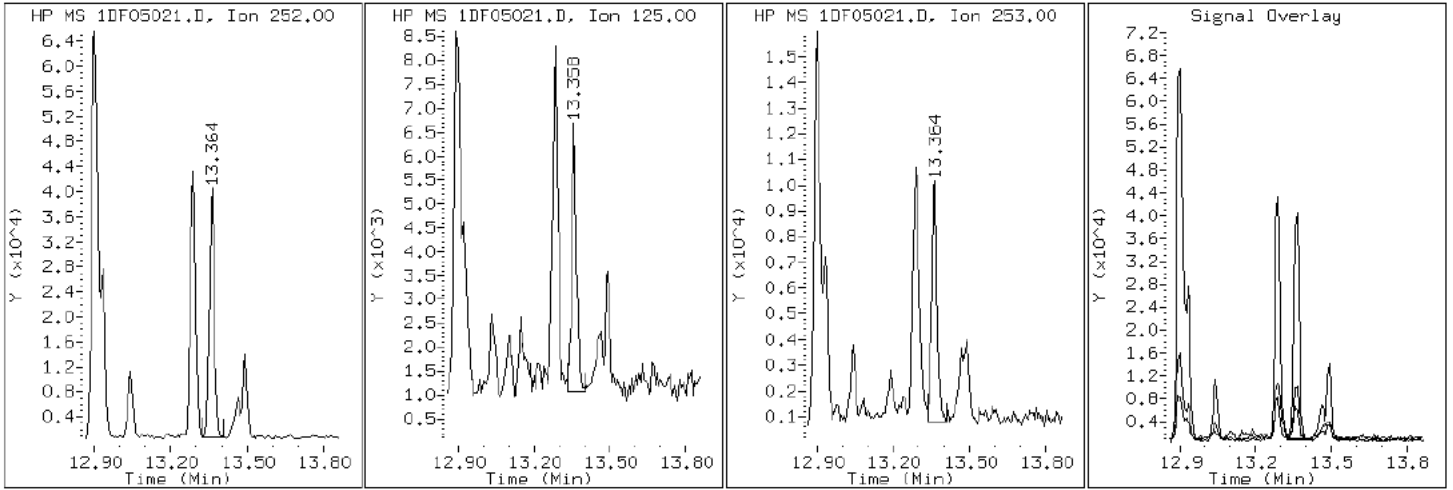
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

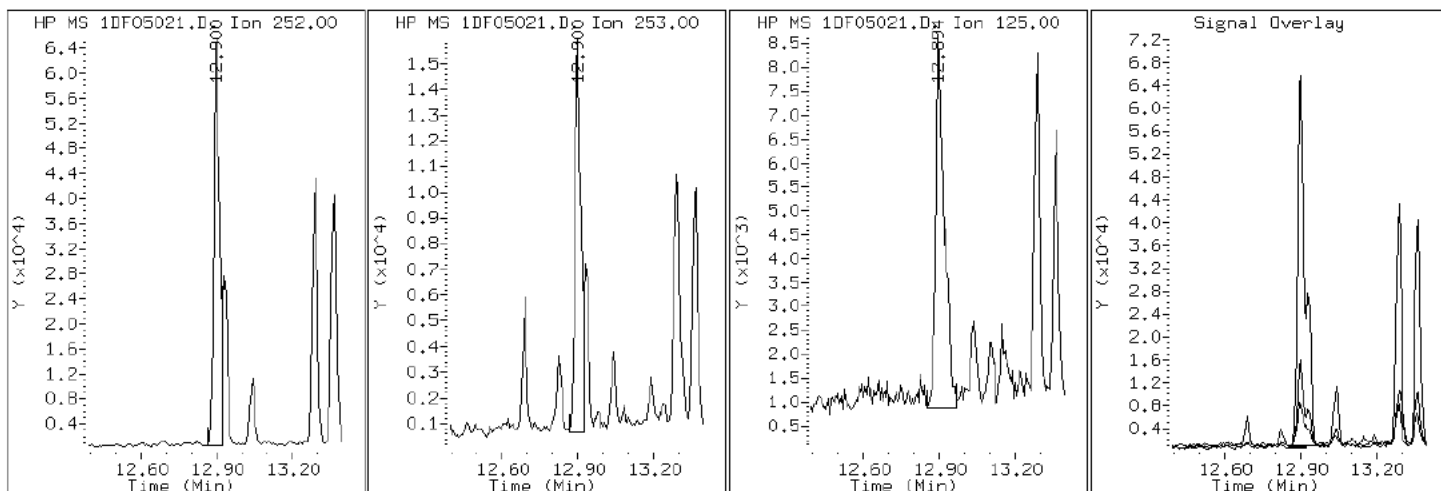
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

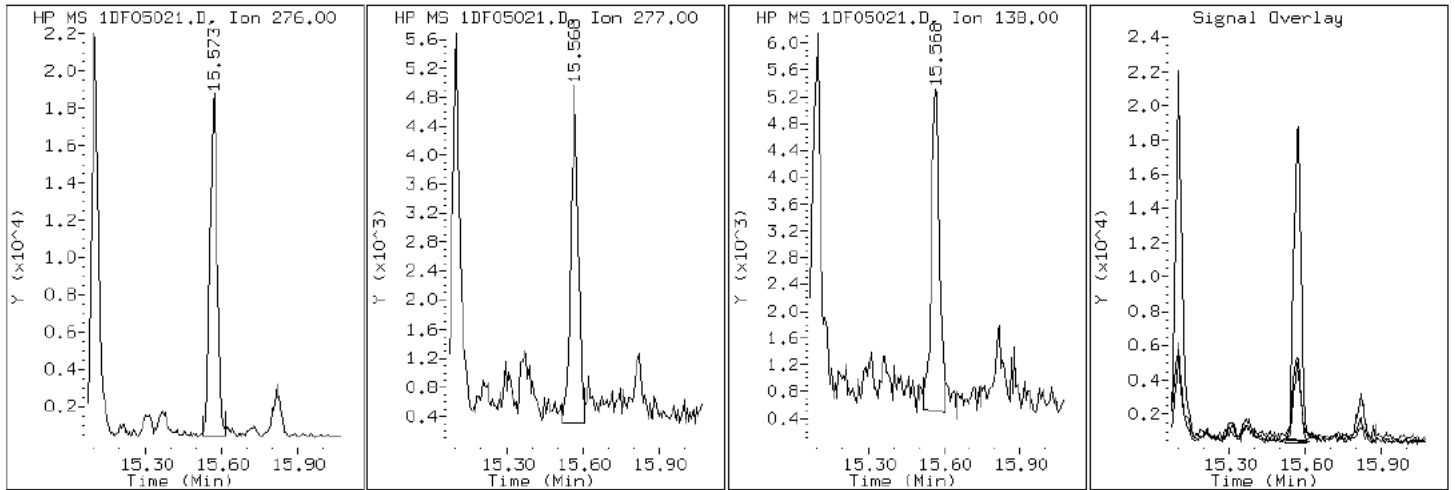
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

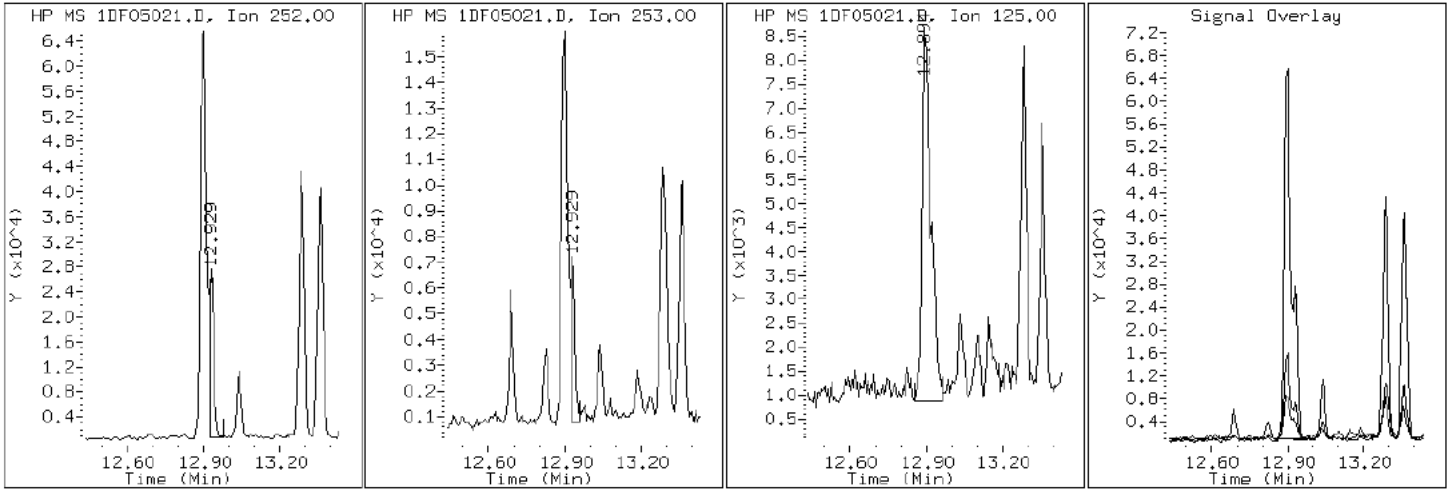
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

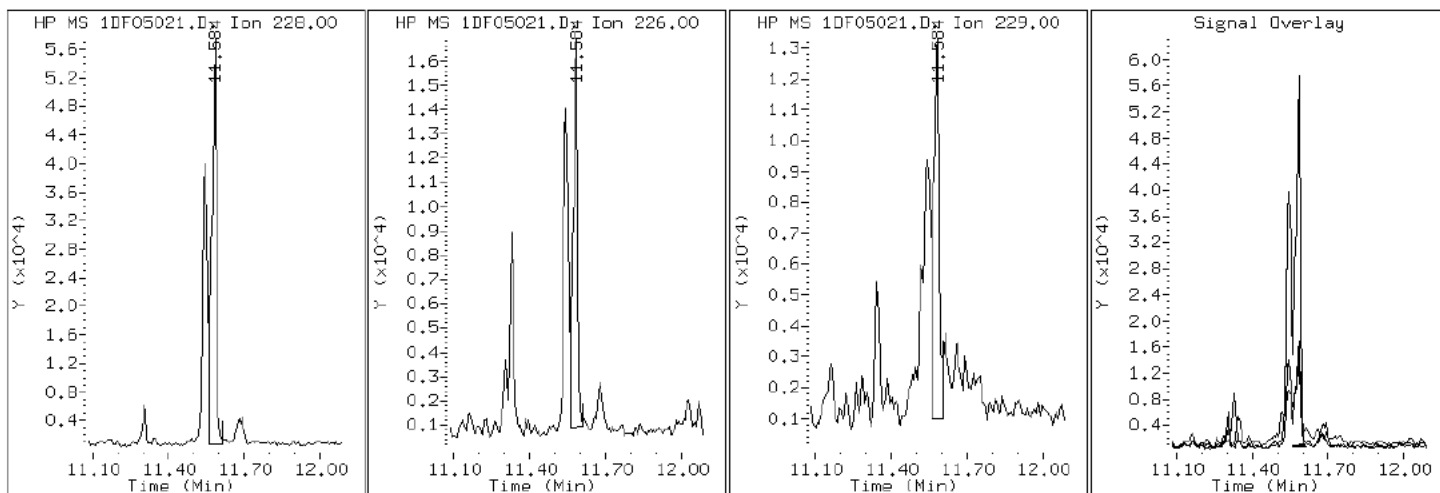
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

20 Chrysene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

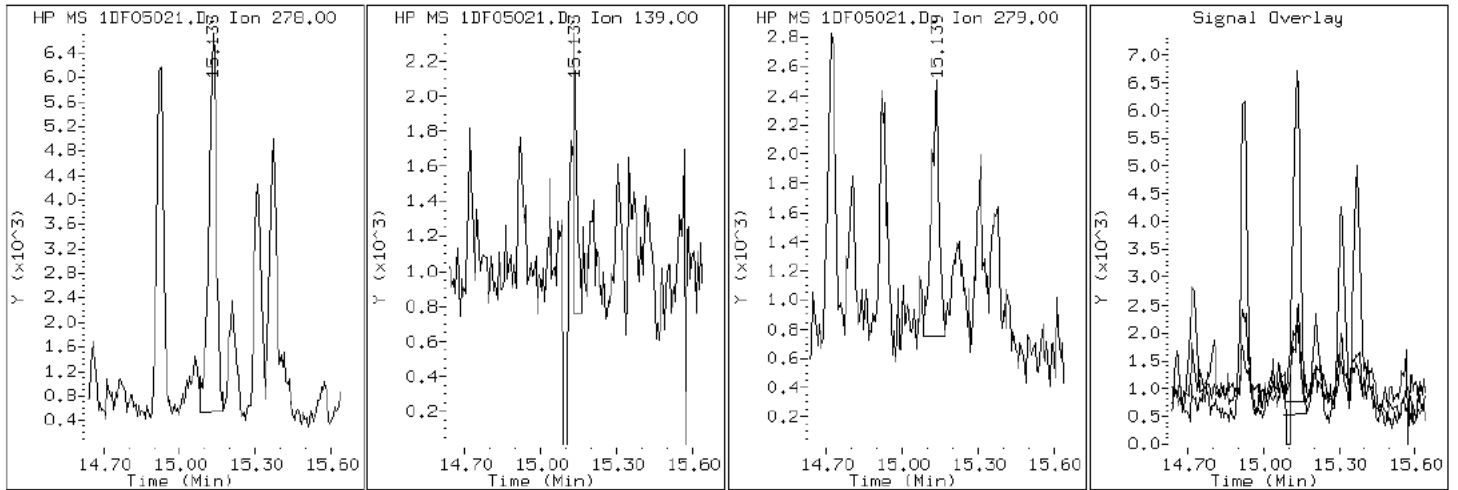
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

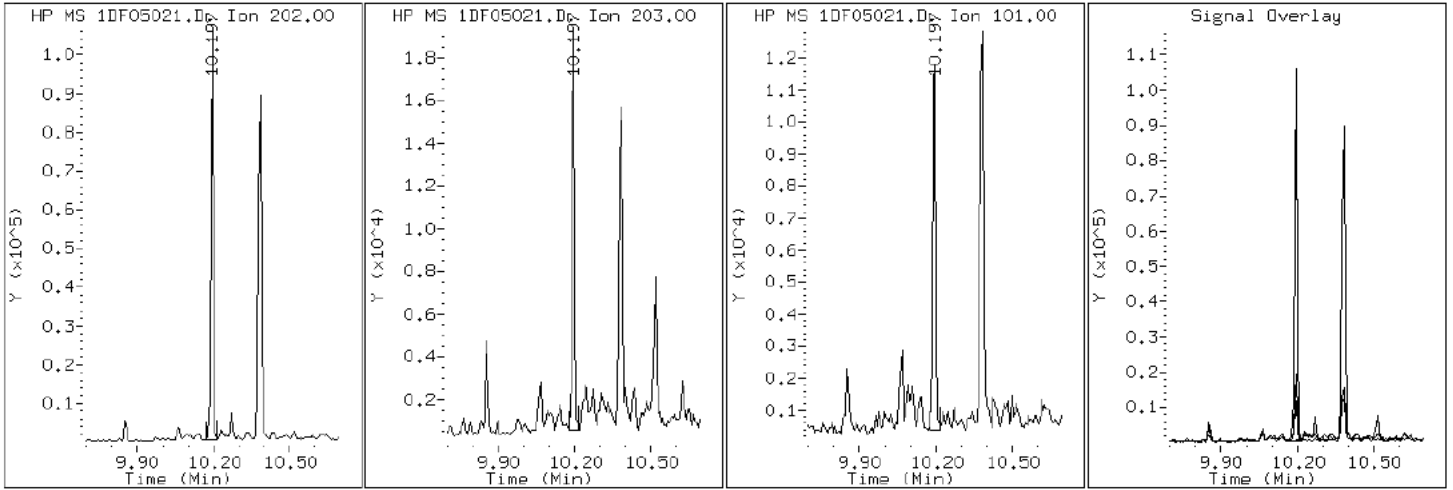
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

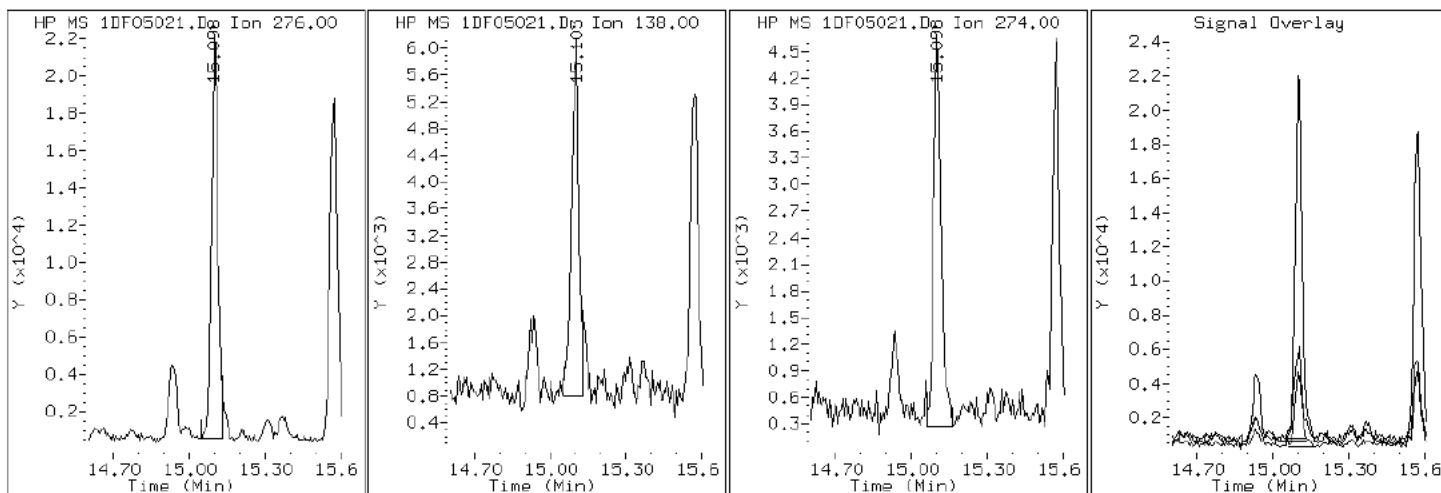
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

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



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

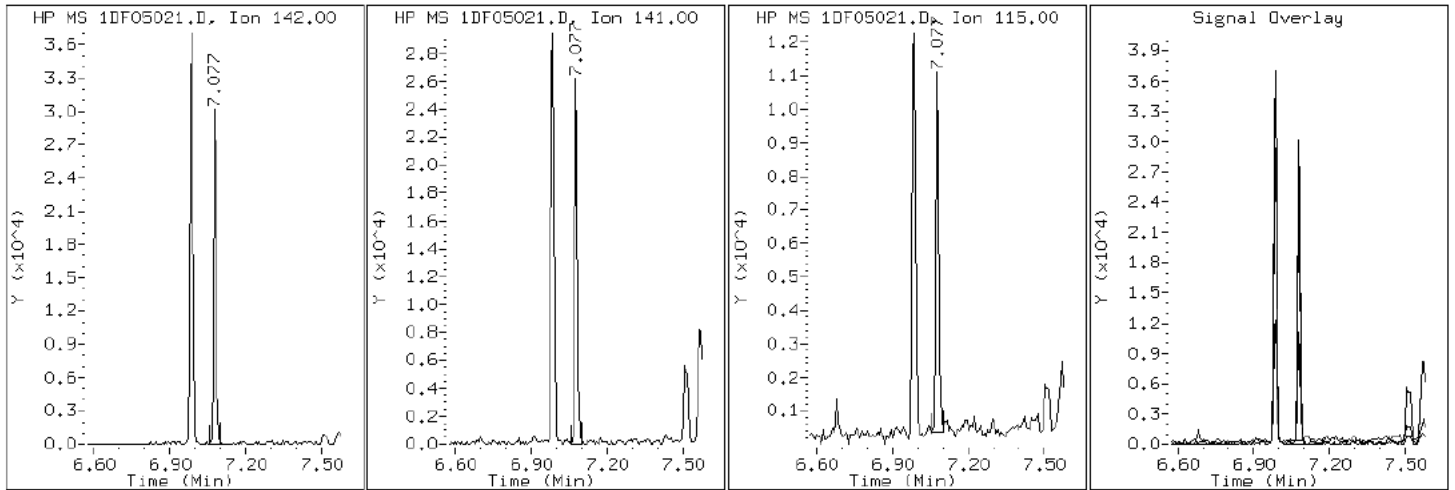
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

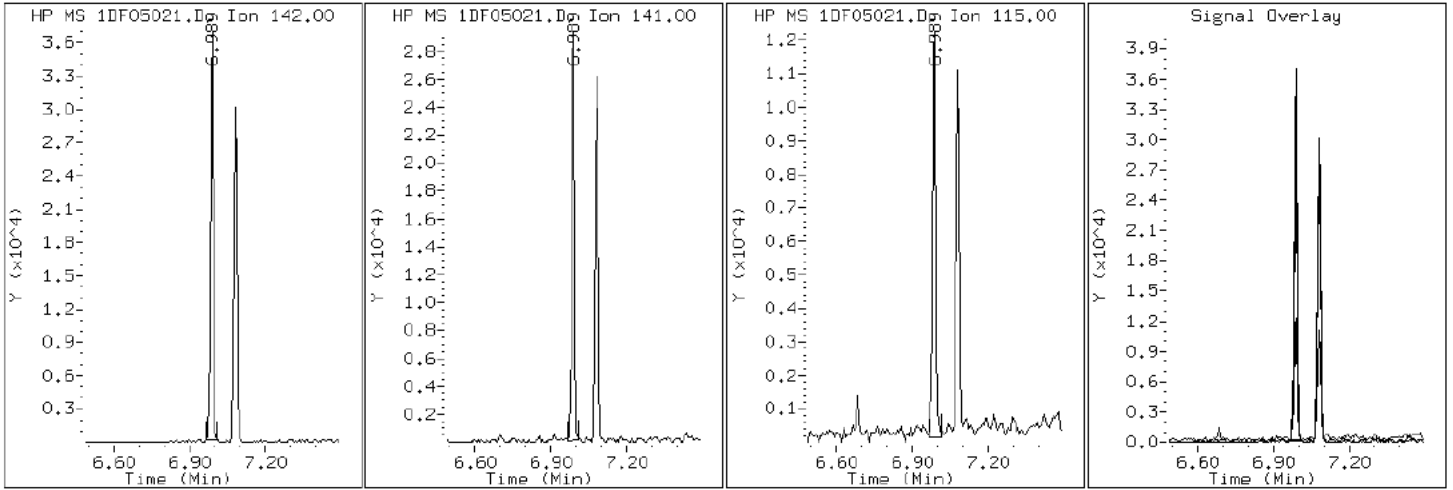
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

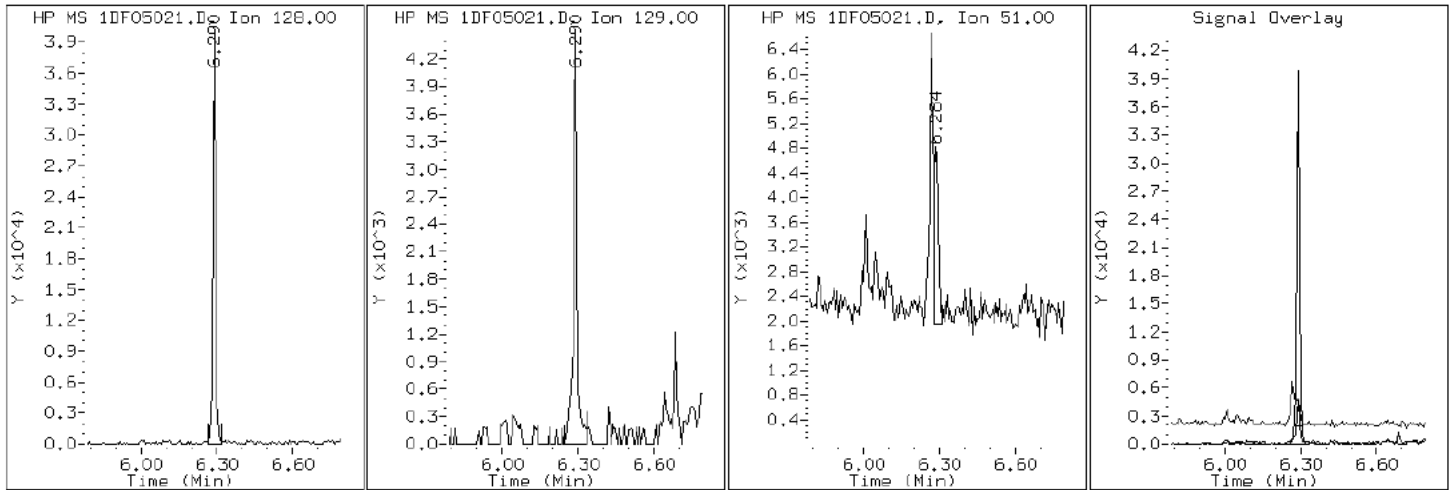
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

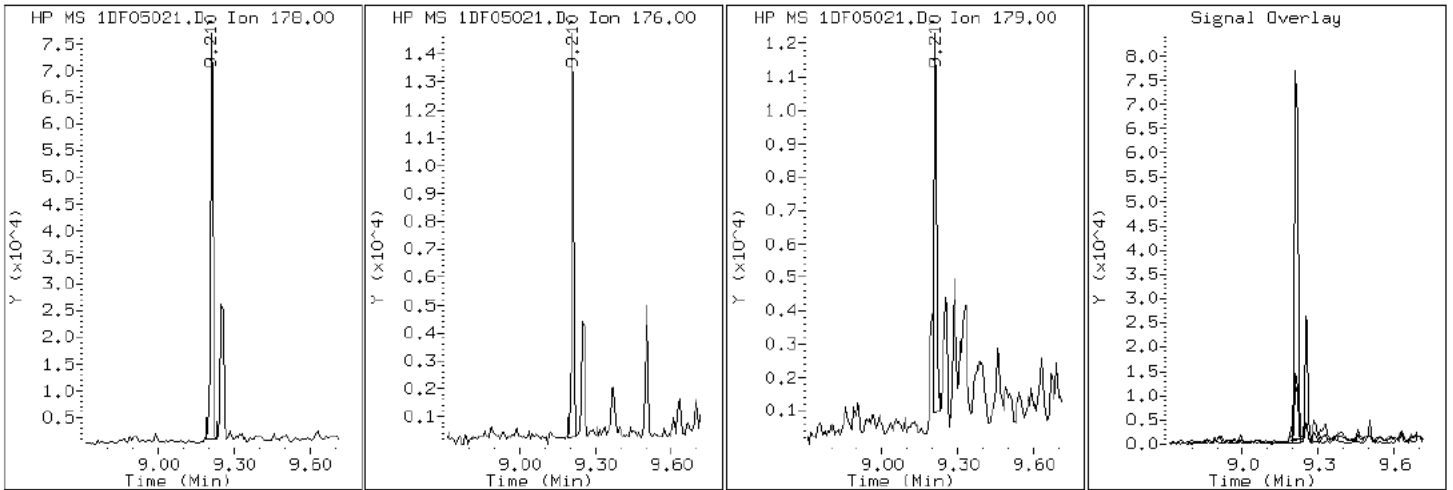
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05021.D

Date: 05-JUN-2013 18:41

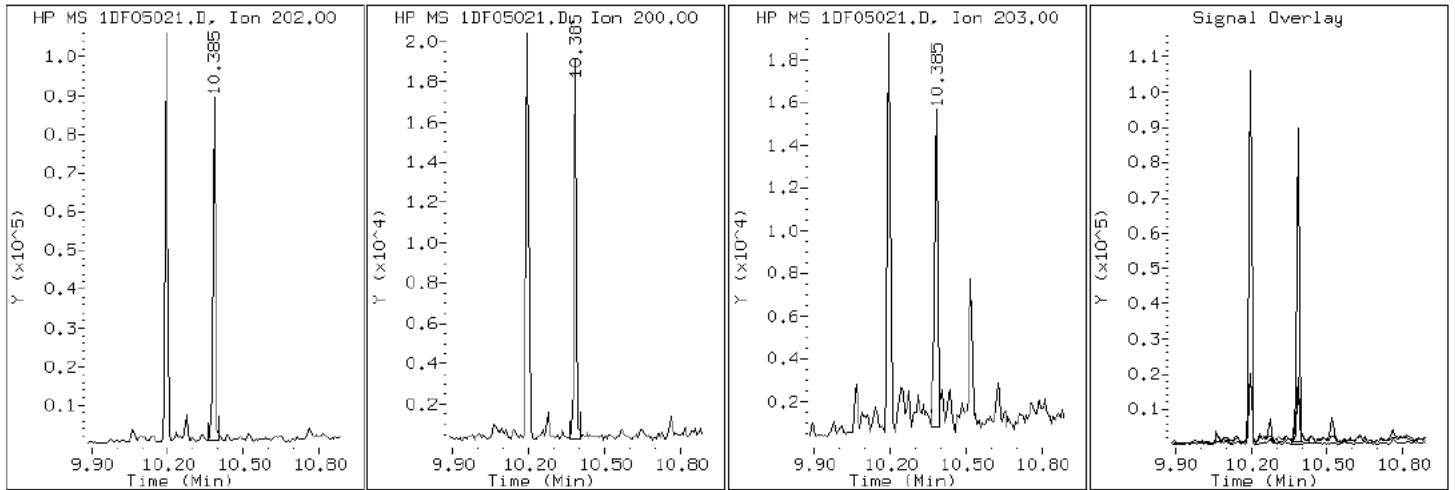
Client ID: CV0543B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-13-a

Operator: SCC

17 Pyrene

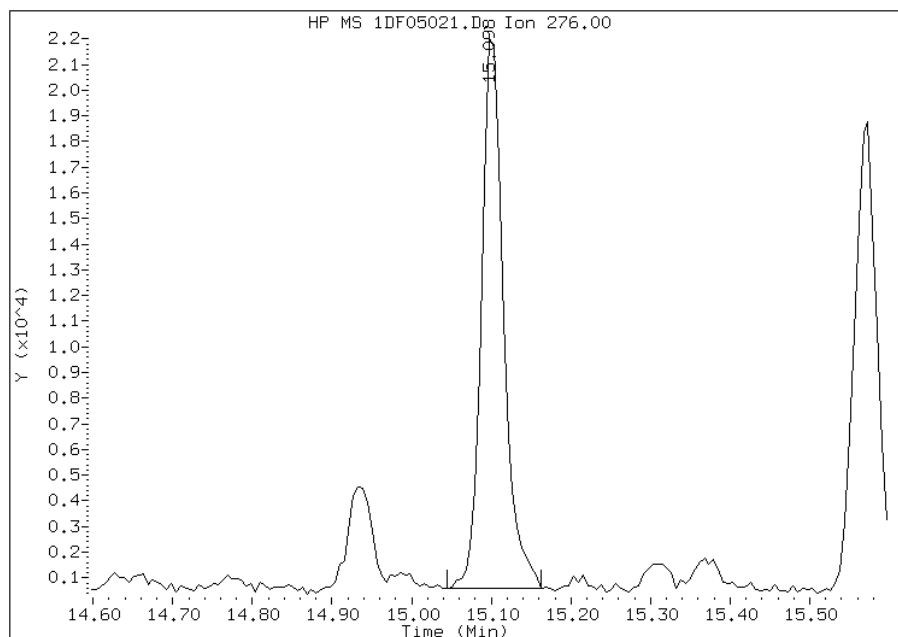


Manual Integration Report

Data File: 1DF05021.D
Inj. Date and Time: 05-JUN-2013 18:41
Instrument ID: BSMSD.i
Client ID: CV0543B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

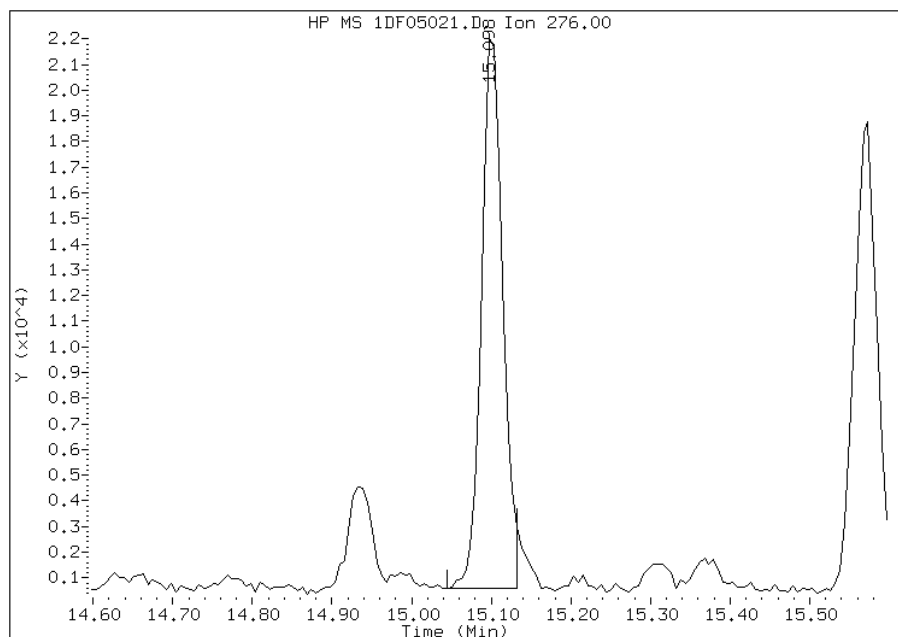
Processing Integration Results

RT: 15.10
Response: 41390
Amount: 1
Conc: 255



Manual Integration Results

RT: 15.10
Response: 39927
Amount: 1
Conc: 248



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0543C-CS-SP Lab Sample ID: 680-90686-14
 Matrix: Solid Lab File ID: 1DF05022.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 09:30
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.08(g) Date Analyzed: 06/05/2013 19:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 32.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	590	U	590	120
208-96-8	Acenaphthylene	260		240	30
120-12-7	Anthracene	540		50	25
56-55-3	Benzo[a]anthracene	690		47	23
50-32-8	Benzo[a]pyrene	790		62	31
205-99-2	Benzo[b]fluoranthene	1500		72	36
191-24-2	Benzo[g,h,i]perylene	500		120	26
207-08-9	Benzo[k]fluoranthene	500		47	21
218-01-9	Chrysene	990		53	27
53-70-3	Dibenz(a,h)anthracene	200		120	24
206-44-0	Fluoranthene	1100		120	24
86-73-7	Fluorene	72	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	520		120	42
90-12-0	1-Methylnaphthalene	330		240	26
91-57-6	2-Methylnaphthalene	420		240	42
91-20-3	Naphthalene	410		240	26
85-01-8	Phenanthrene	950		47	23
129-00-0	Pyrene	1200		120	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	99		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05022.D
 Lab Smp Id: 680-90686-A-14-A Client Smp ID: CV0543C-CS-SP
 Inj Date : 05-JUN-2013 19:03
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-14-a
 Misc Info : 680-90686-A-14-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 22
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	32.727	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.271	6.265	(1.000)	3242050	40.0000	
* 7 Acenaphthene-d10	164		7.940	7.934	(1.000)	1713694	40.0000	
* 11 Phenanthrene-d10	188		9.197	9.191	(1.000)	2683526	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.503	(1.033)	97023	2.46788	970
* 19 Chrysene-d12	240		11.559	11.553	(1.000)	2551417	40.0000	
* 24 Perylene-d12	264		13.469	13.457	(1.000)	2854128	40.0000	
2 Naphthalene	128		6.289	6.289	(1.003)	83921	1.04966	410
3 2-Methylnaphthalene	142		6.988	6.988	(1.114)	54322	1.06711	420
4 1-Methylnaphthalene	142		7.082	7.076	(1.129)	43430	0.82870	330
5 1,1'-Biphenyl	154		7.423	7.423	(0.935)	13010	0.22471	88
6 Acenaphthylene	152		7.811	7.811	(0.984)	46657	0.65666	260
8 Acenaphthene	154		7.963	7.963	(1.003)	8425	0.18692	74
9 Dibenzofuran	168		8.110	8.110	(1.021)	25451	0.40951	160
10 Fluorene	166		8.404	8.404	(1.058)	9313	0.18261	72

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.215	9.215	(1.002)	175882	2.41999	950
13 Anthracene	178	9.256	9.256	(1.006)	96971	1.37512	540
16 Fluoranthene	202	10.196	10.196	(1.109)	215602	2.89971	1100
17 Pyrene	202	10.384	10.384	(0.898)	220907	2.95728	1200
18 Benzo(a)anthracene	228	11.541	11.542	(0.998)	133219	1.75935	690
20 Chrysene	228	11.583	11.583	(1.002)	171543	2.51585	990
21 Benzo(b)fluoranthene	252	12.899	12.893	(0.958)	266105	3.72163	1500
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	94156	1.25747	500
23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	135324	2.01018	790
25 Indeno(1,2,3-cd)pyrene	276	15.108	15.102	(1.122)	87724	1.33051	520(M)
26 Dibenzo(a,h)anthracene	278	15.137	15.137	(1.124)	28930	0.49608	200
27 Benzo(g,h,i)perylene	276	15.578	15.572	(1.157)	82582	1.27428	500

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05022.D

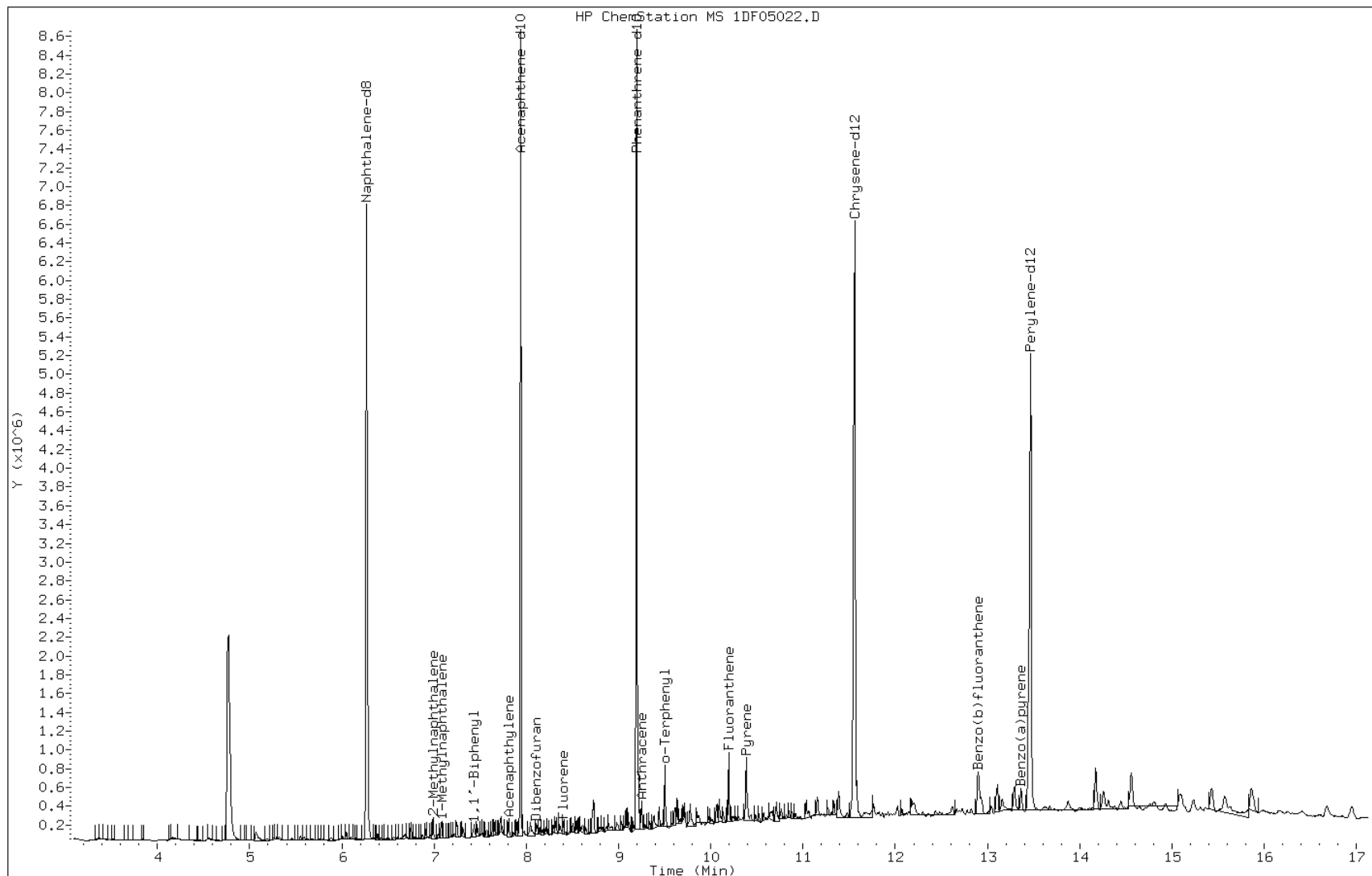
Date: 05-JUN-2013 19:03

Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

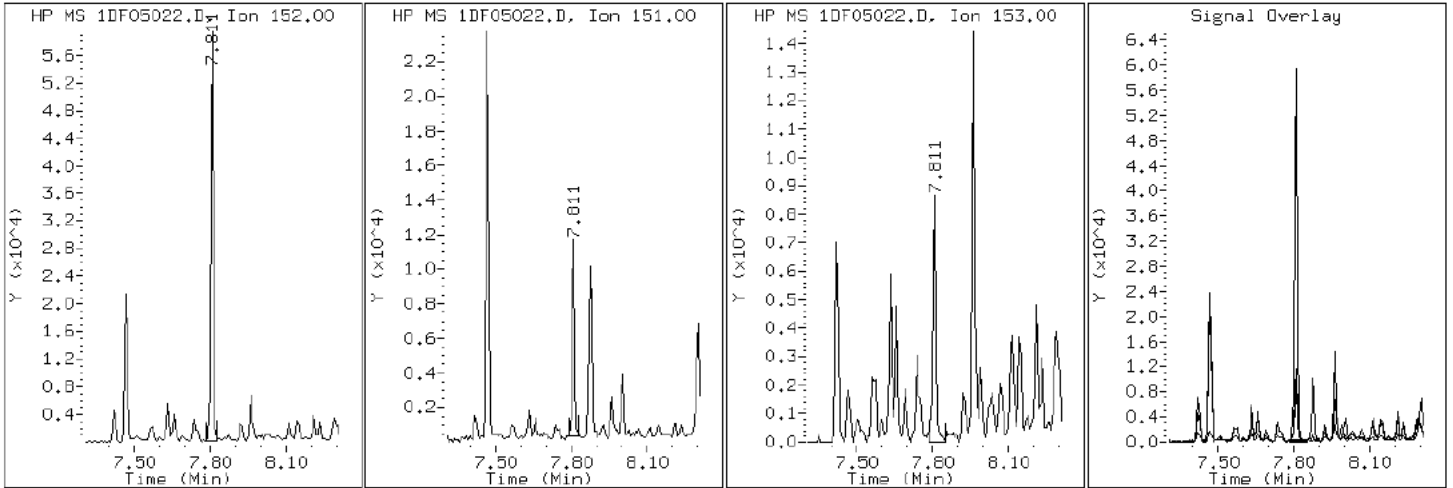
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

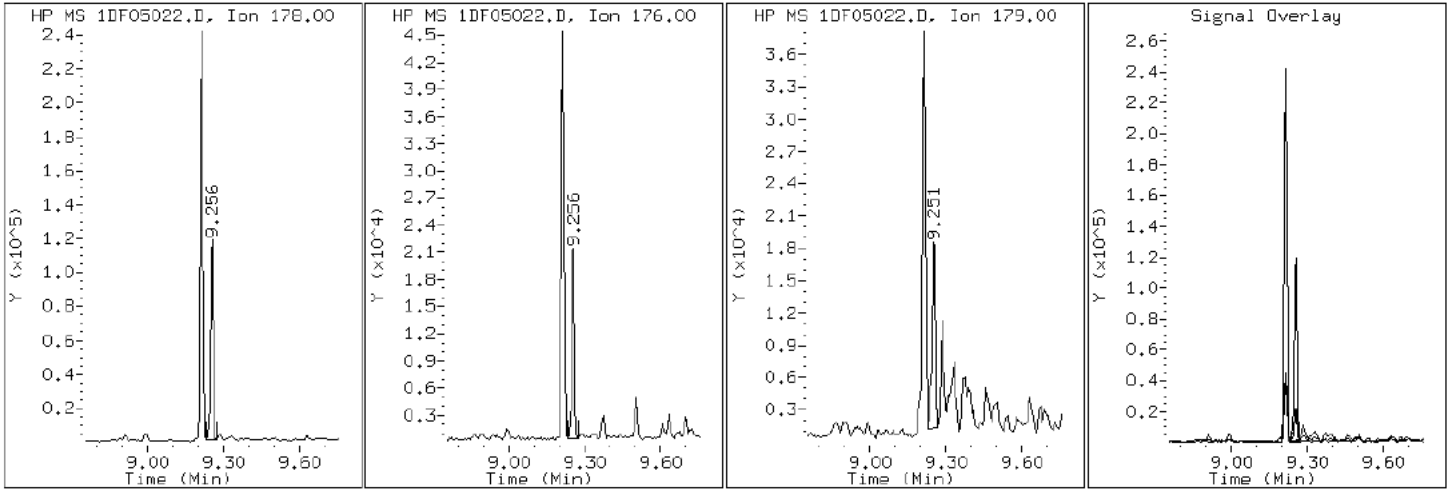
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

13 Anthracene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

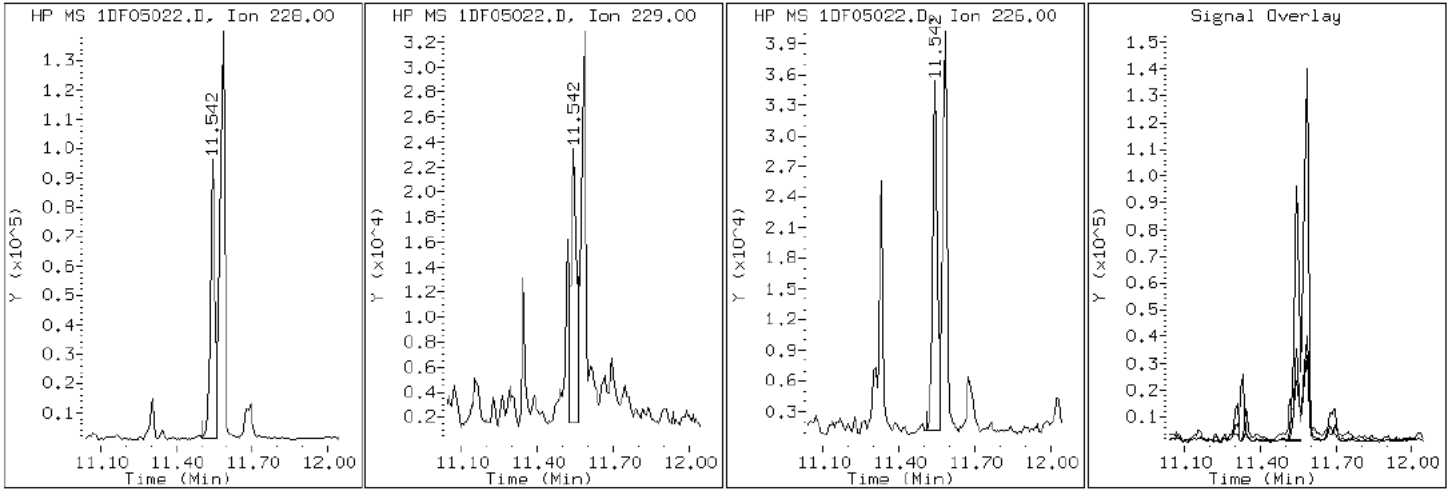
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

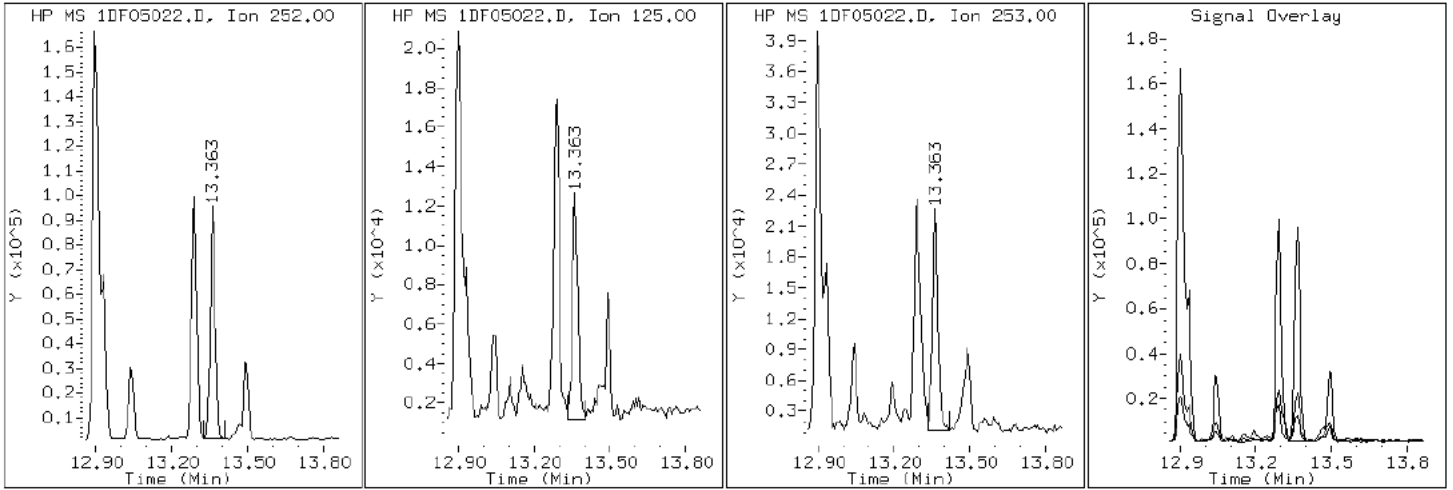
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

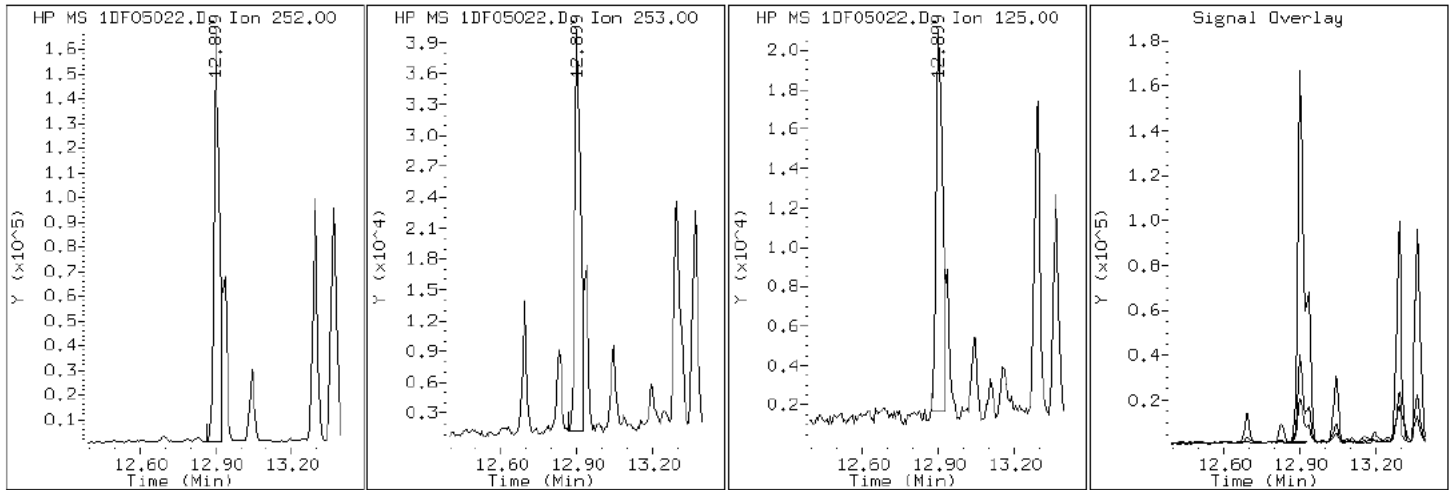
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

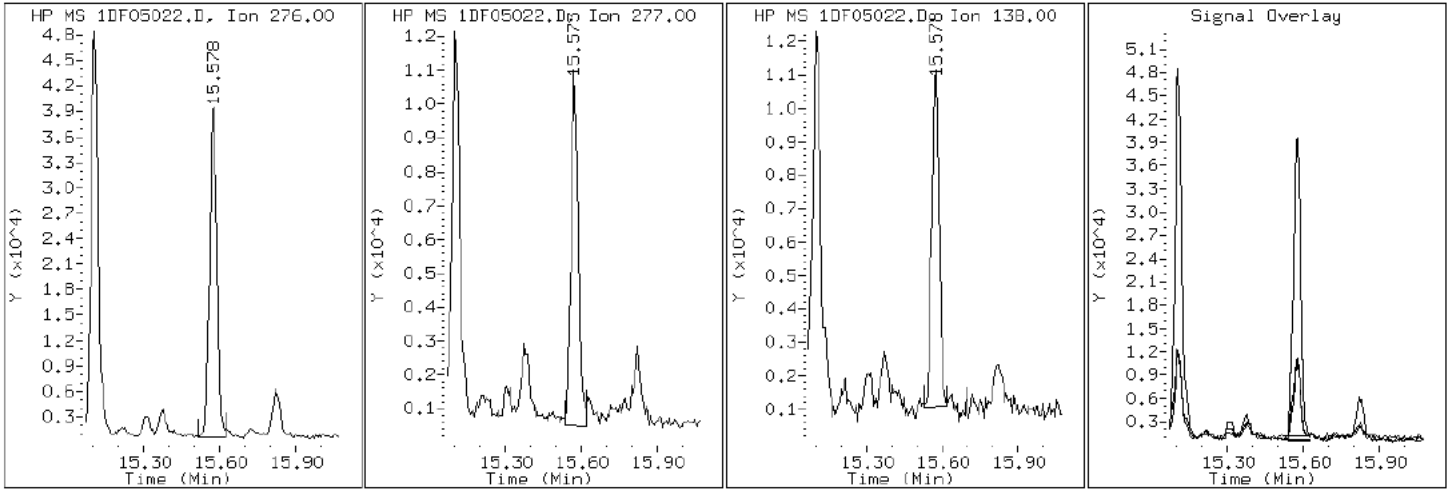
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

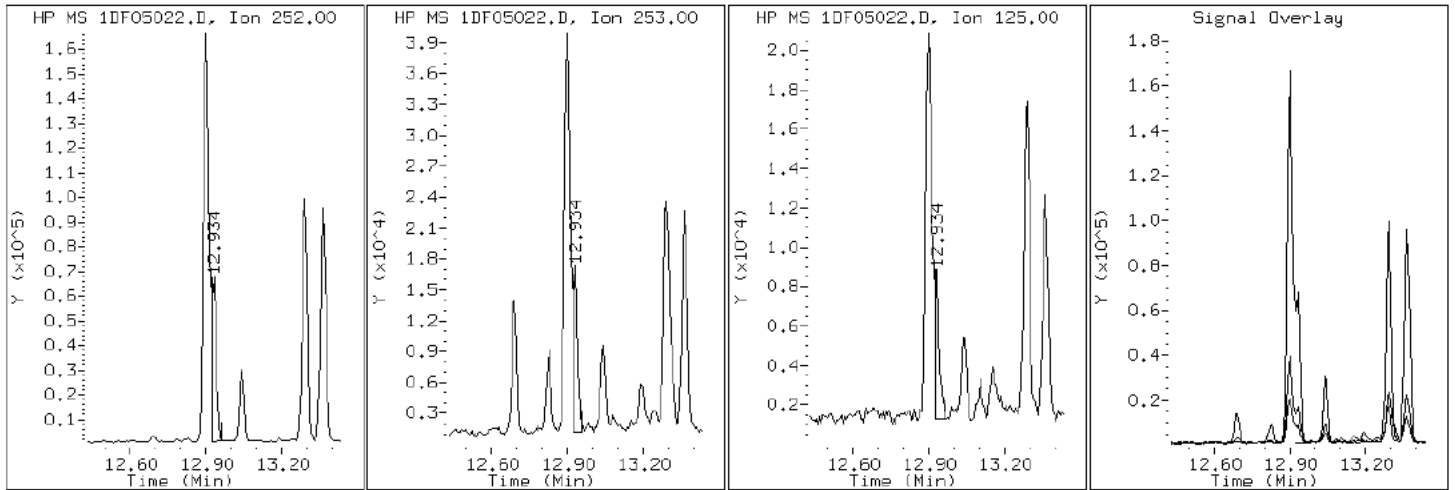
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

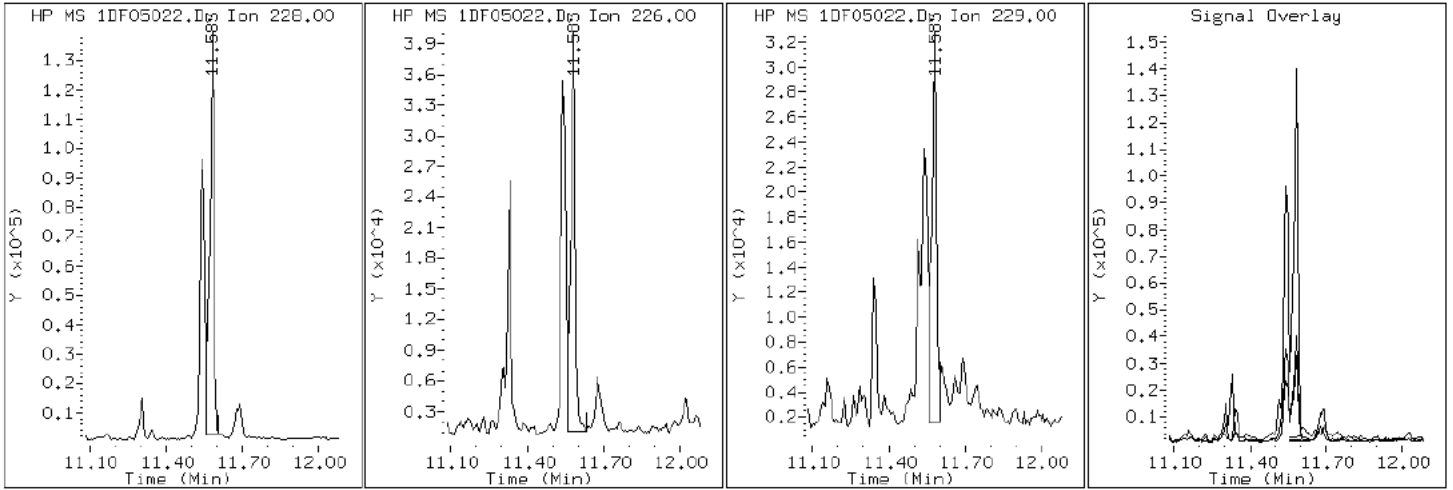
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

20 Chrysene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

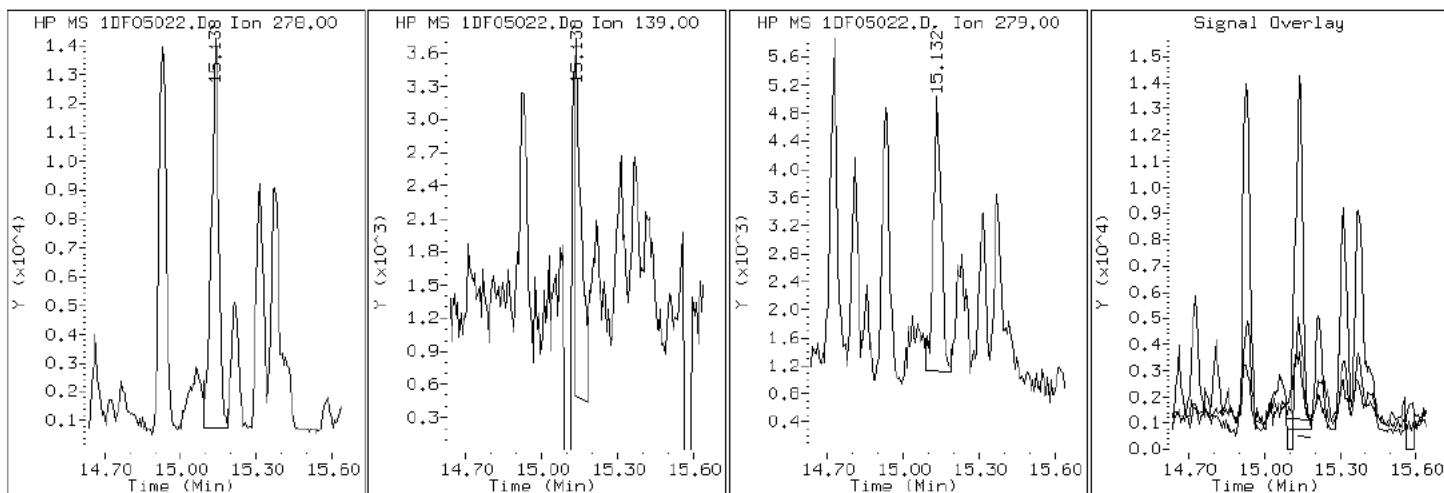
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

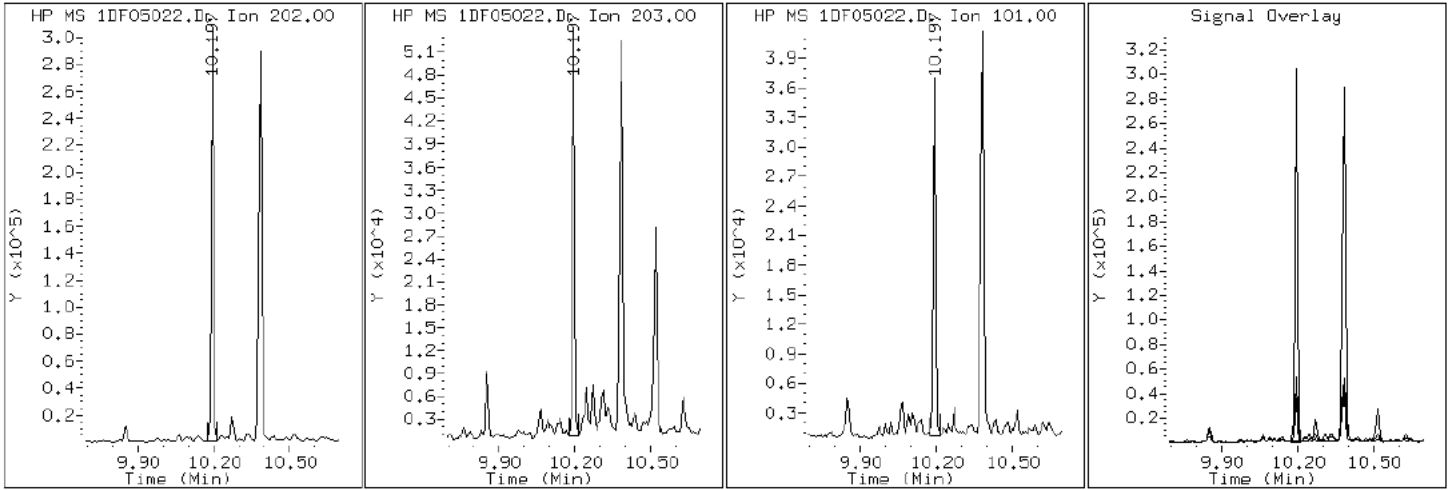
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

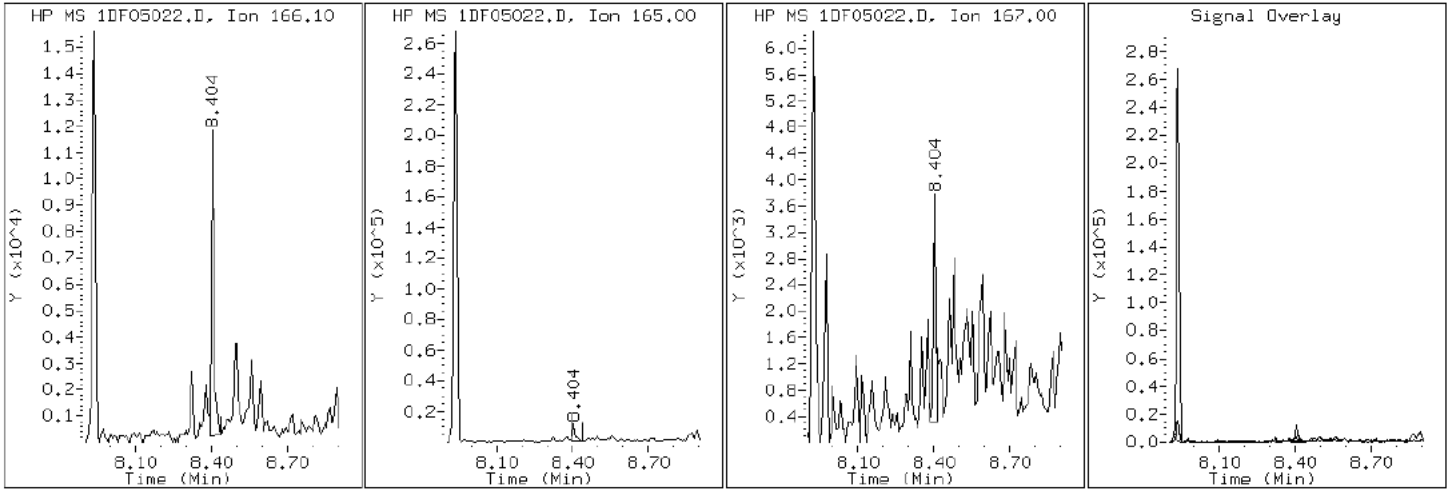
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

10 Fluorene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

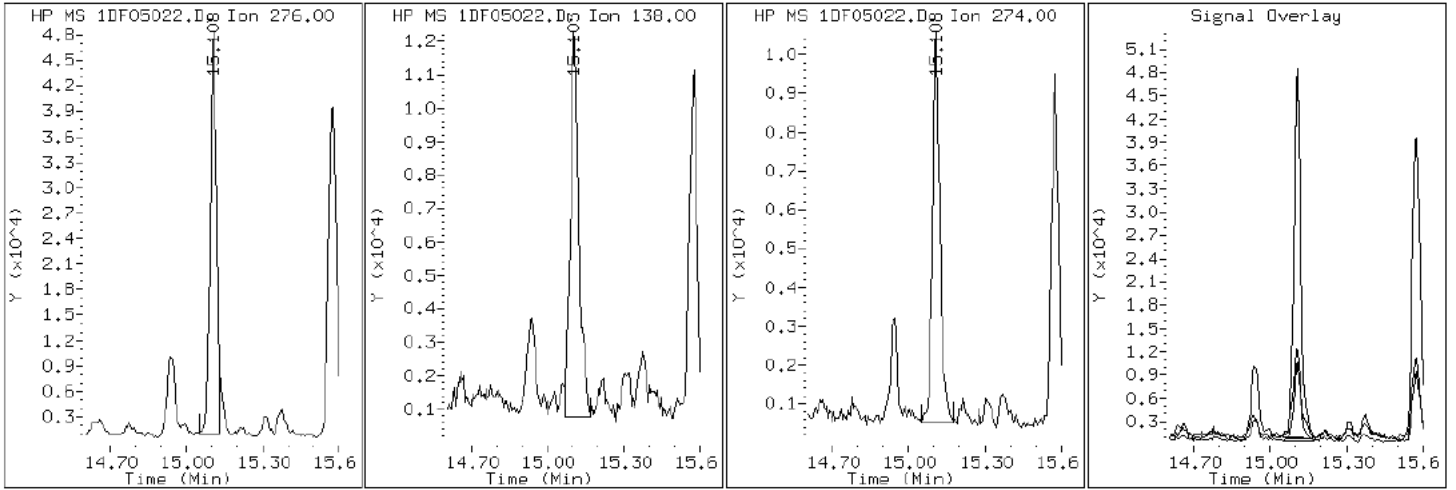
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

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



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

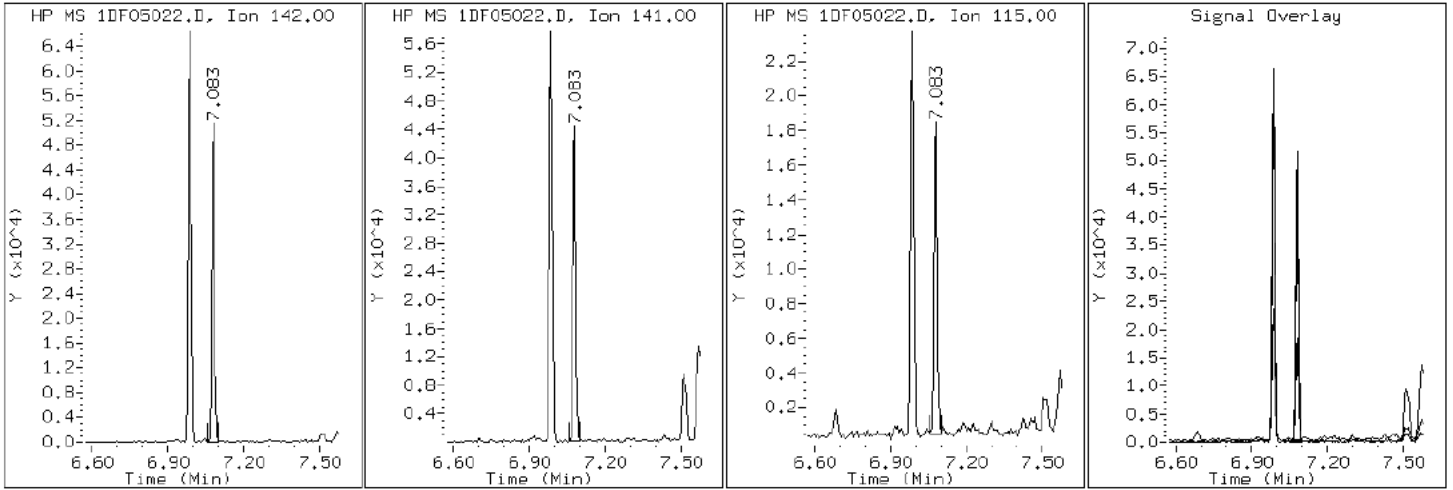
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

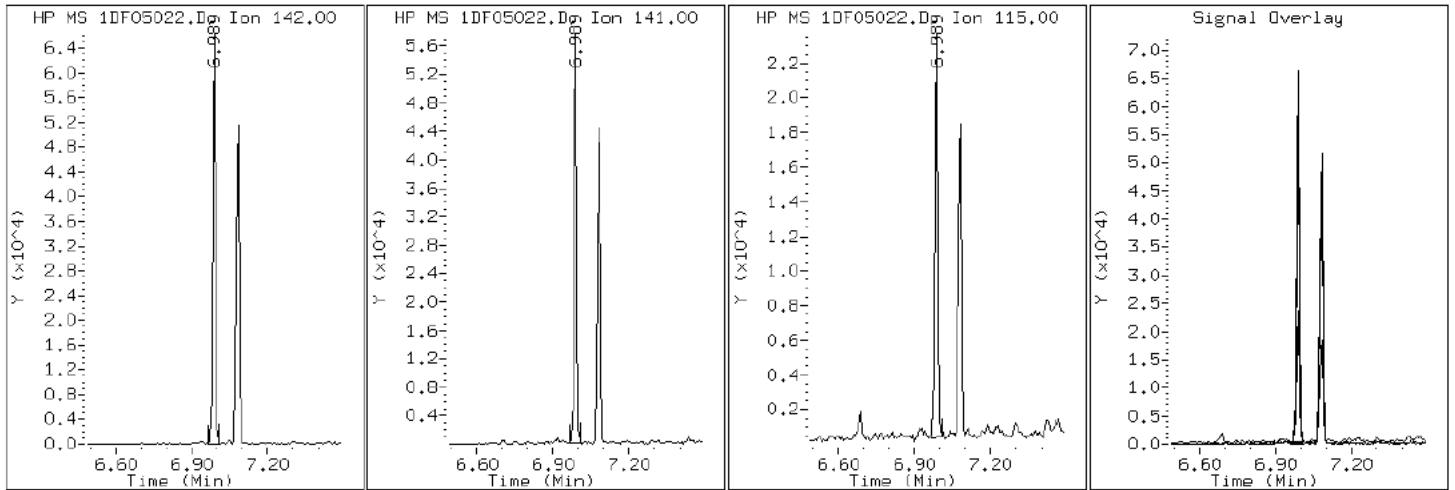
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

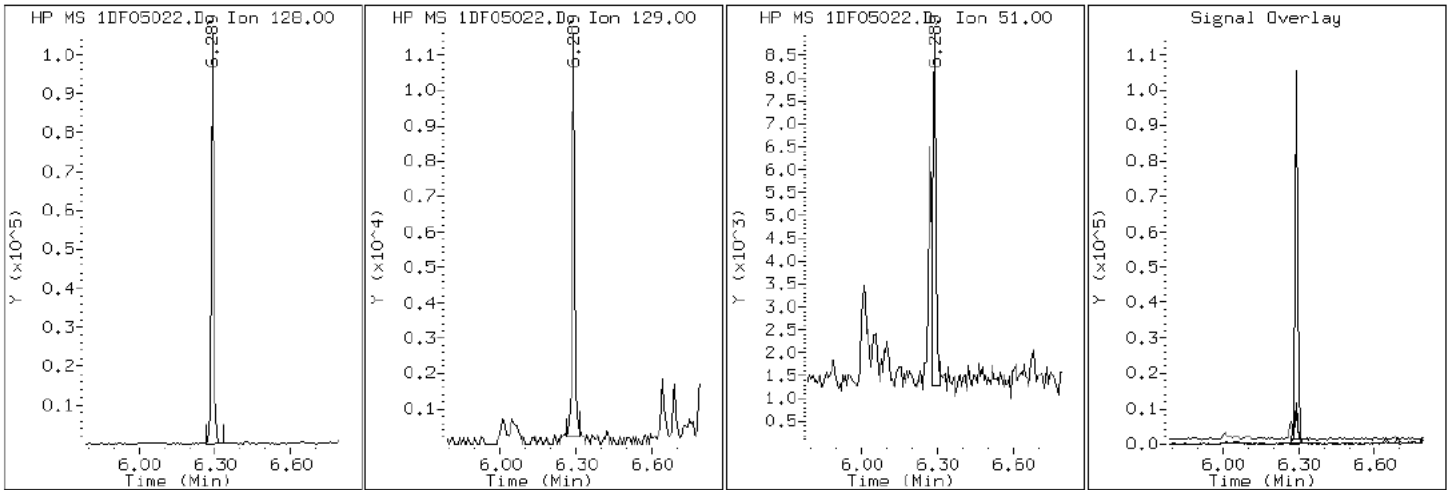
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

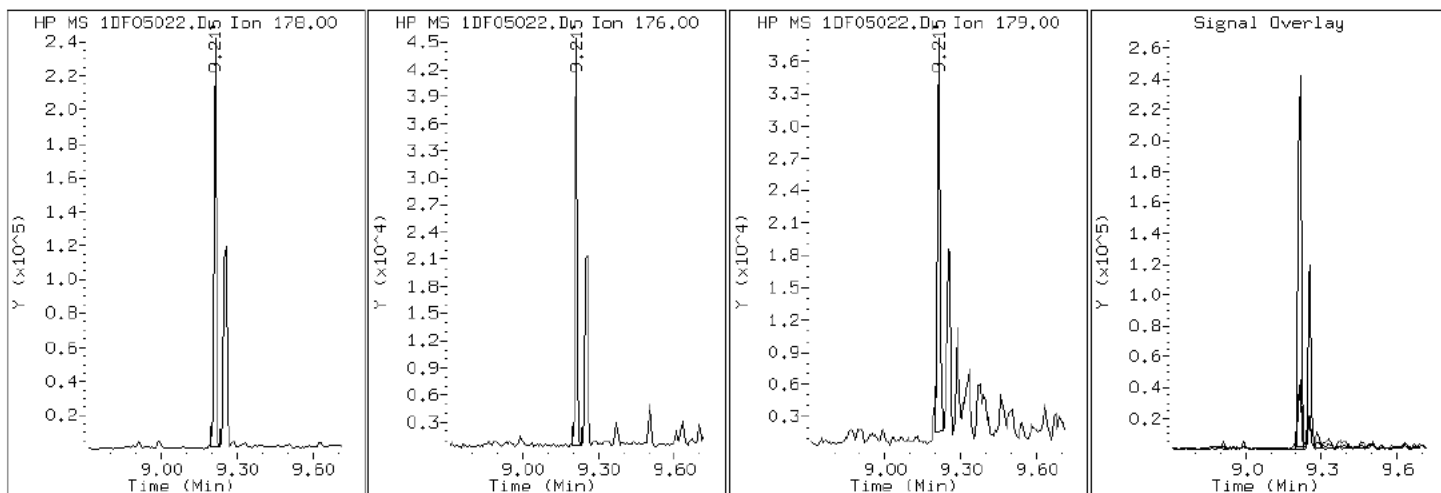
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05022.D

Date: 05-JUN-2013 19:03

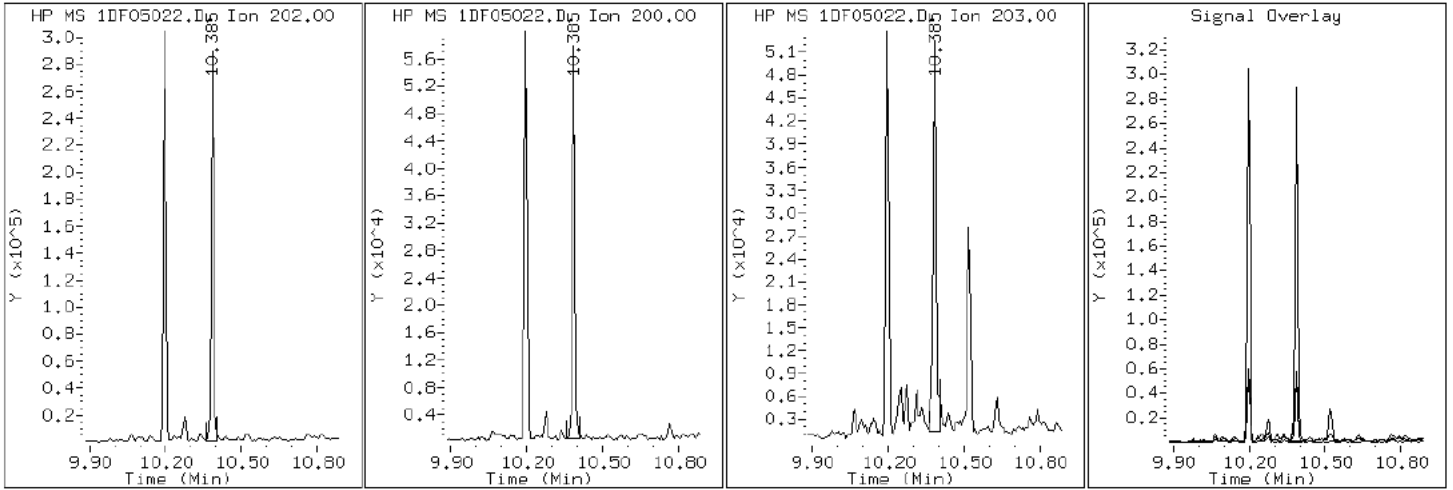
Client ID: CV0543C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-14-a

Operator: SCC

17 Pyrene

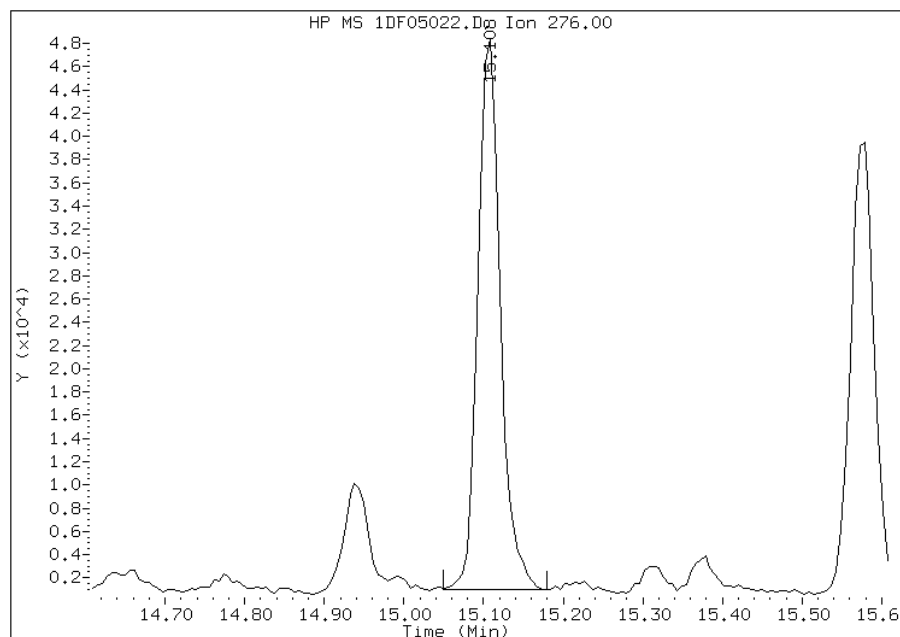


Manual Integration Report

Data File: 1DF05022.D
Inj. Date and Time: 05-JUN-2013 19:03
Instrument ID: BSMSD.i
Client ID: CV0543C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

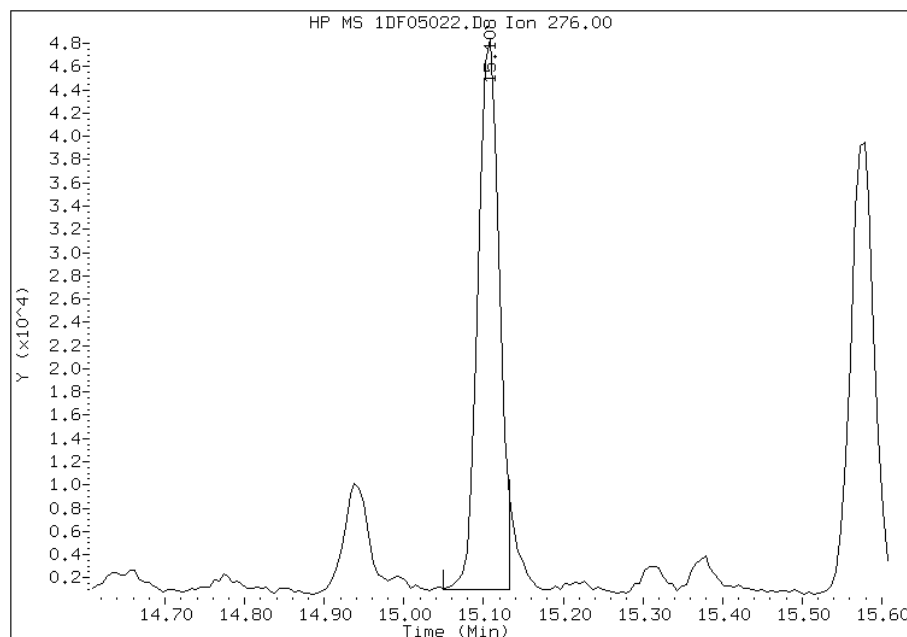
Processing Integration Results

RT: 15.11
Response: 92470
Amount: 1
Conc: 550



Manual Integration Results

RT: 15.11
Response: 87724
Amount: 1
Conc: 525



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: HP0036A-CS-SP Lab Sample ID: 680-90686-15
 Matrix: Solid Lab File ID: 1DF05023.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:20
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.24(g) Date Analyzed: 06/05/2013 19:26
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 16.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	30	J	120	24
208-96-8	Acenaphthylene	76		47	5.9
120-12-7	Anthracene	120		9.9	5.0
56-55-3	Benzo[a]anthracene	650		9.4	4.6
50-32-8	Benzo[a]pyrene	980		12	6.1
205-99-2	Benzo[b]fluoranthene	1500		14	7.2
191-24-2	Benzo[g,h,i]perylene	670		24	5.2
207-08-9	Benzo[k]fluoranthene	510		9.4	4.2
218-01-9	Chrysene	880		11	5.3
53-70-3	Dibenz(a,h)anthracene	200		24	4.8
206-44-0	Fluoranthene	900		24	4.7
86-73-7	Fluorene	33		24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	620		24	8.4
90-12-0	1-Methylnaphthalene	83		47	5.2
91-57-6	2-Methylnaphthalene	130		47	8.4
91-20-3	Naphthalene	440		47	5.2
85-01-8	Phenanthrene	450		9.4	4.6
129-00-0	Pyrene	820		24	4.4

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05023.D
 Lab Smp Id: 680-90686-A-15-A Client Smp ID: HP0036A-CS-SP
 Inj Date : 05-JUN-2013 19:26
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-15-a
 Misc Info : 680-90686-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	16.558	% 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	6.272	6.265	(1.000)	3428027	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.934	(1.000)	1804720	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.191	(1.000)	2779682	40.0000	
\$ 15 o-Terphenyl	230	9.503	9.503	(1.033)	306250	7.52030	590
* 19 Chrysene-d12	240	11.559	11.553	(1.000)	2678291	40.0000	
* 24 Perylene-d12	264	13.475	13.457	(1.000)	2967784	40.0000	
2 Naphthalene	128	6.289	6.289	(1.003)	471395	5.57621	440
3 2-Methylnaphthalene	142	6.988	6.988	(1.114)	88337	1.64116	130
4 1-Methylnaphthalene	142	7.082	7.076	(1.129)	58240	1.05101	83
5 1,1'-Biphenyl	154	7.423	7.423	(0.935)	23083	0.37857	30
6 Acenaphthylene	152	7.811	7.811	(0.984)	71973	0.96187	76
8 Acenaphthene	154	7.964	7.963	(1.003)	18398	0.38759	30
9 Dibenzofuran	168	8.111	8.110	(1.021)	44658	0.68231	54
10 Fluorene	166	8.404	8.404	(1.058)	22241	0.41411	32

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.215	9.215	(1.002)	433743	5.76151	450
13 Anthracene	178	9.256	9.256	(1.006)	109426	1.49806	120
16 Fluoranthene	202	10.196	10.196	(1.109)	886104	11.5053	900
17 Pyrene	202	10.384	10.384	(0.898)	818346	10.4362	820
18 Benzo(a)anthracene	228	11.548	11.542	(0.999)	657736	8.27488	650
20 Chrysene	228	11.589	11.583	(1.003)	801272	11.1948	880
21 Benzo(b)fluoranthene	252	12.911	12.893	(0.958)	1464374	19.6958	1500
22 Benzo(k)fluoranthene	252	12.946	12.934	(0.961)	503011	6.46055	510
23 Benzo(a)pyrene	252	13.375	13.363	(0.993)	909752	12.4583	980
25 Indeno(1,2,3-cd)pyrene	276	15.126	15.102	(1.123)	594406	7.85348	620(M)
26 Dibenzo(a,h)anthracene	278	15.149	15.137	(1.124)	176065	2.55422	200
27 Benzo(g,h,i)perylene	276	15.602	15.572	(1.158)	574838	8.53031	670

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05023.D

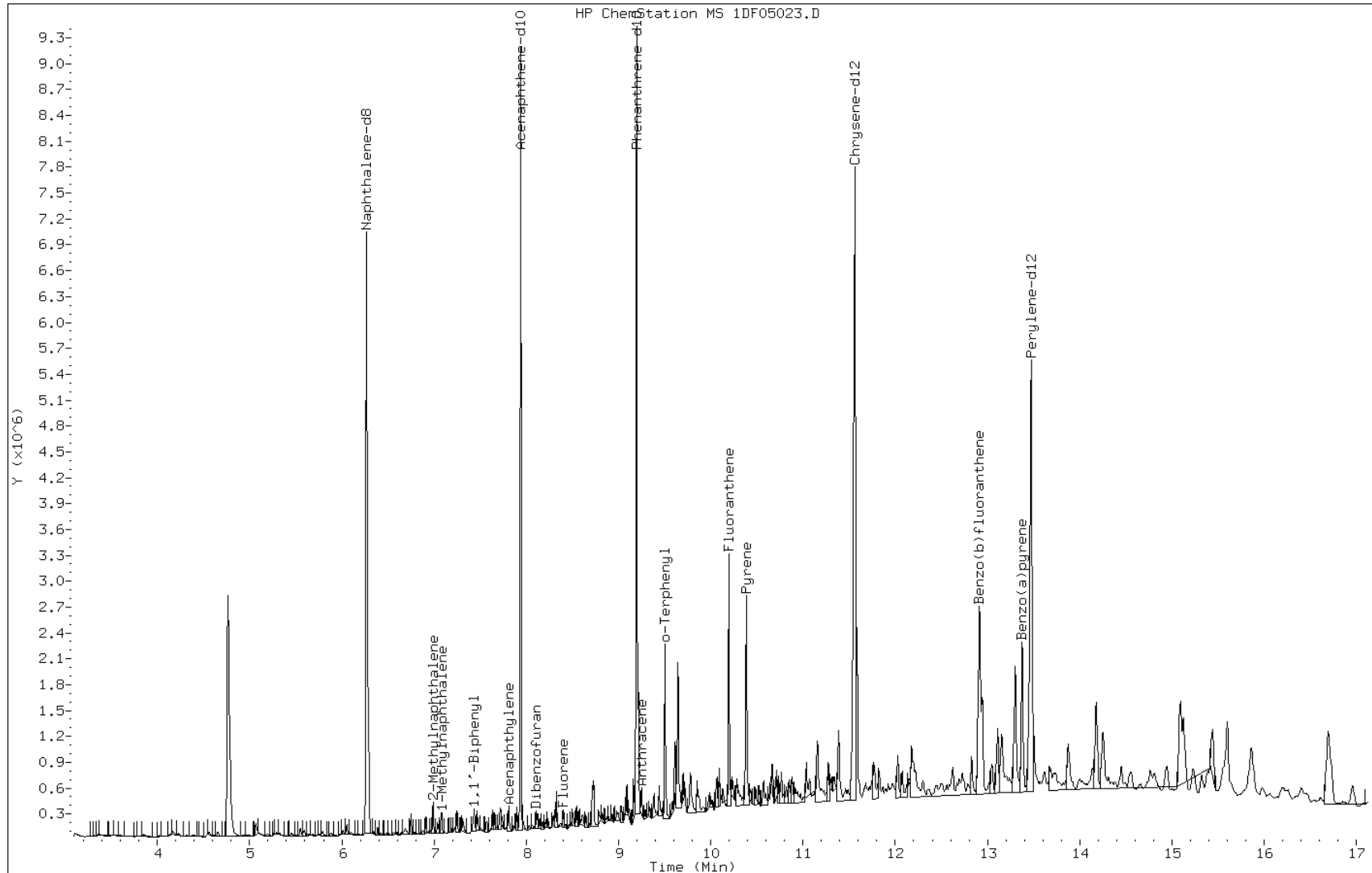
Date: 05-JUN-2013 19:26

Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

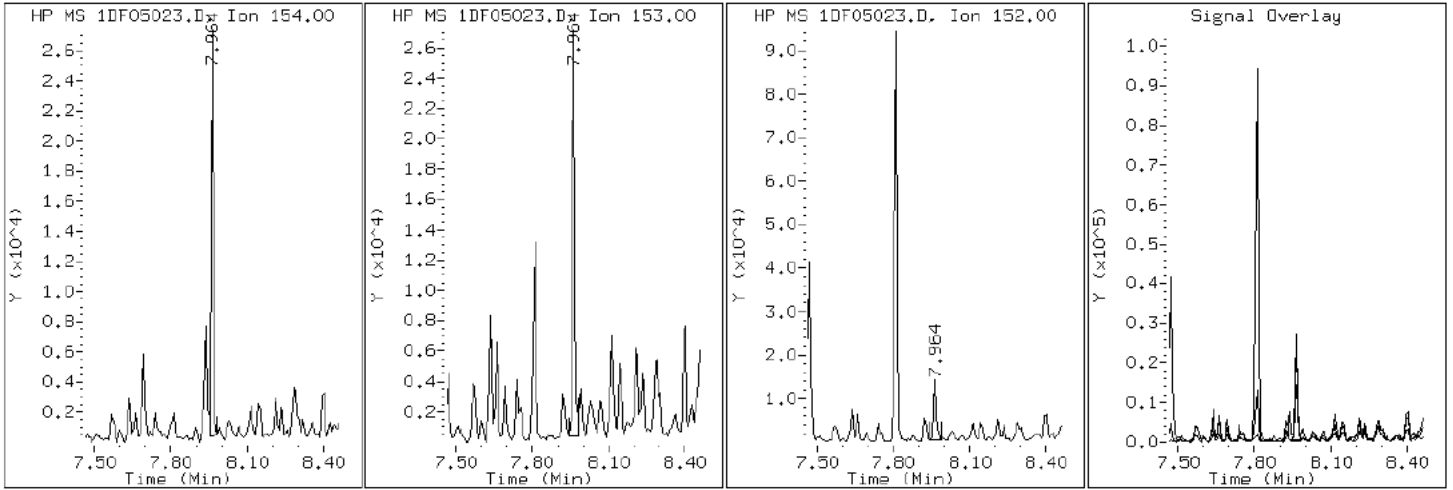
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

8 Acenaphthene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

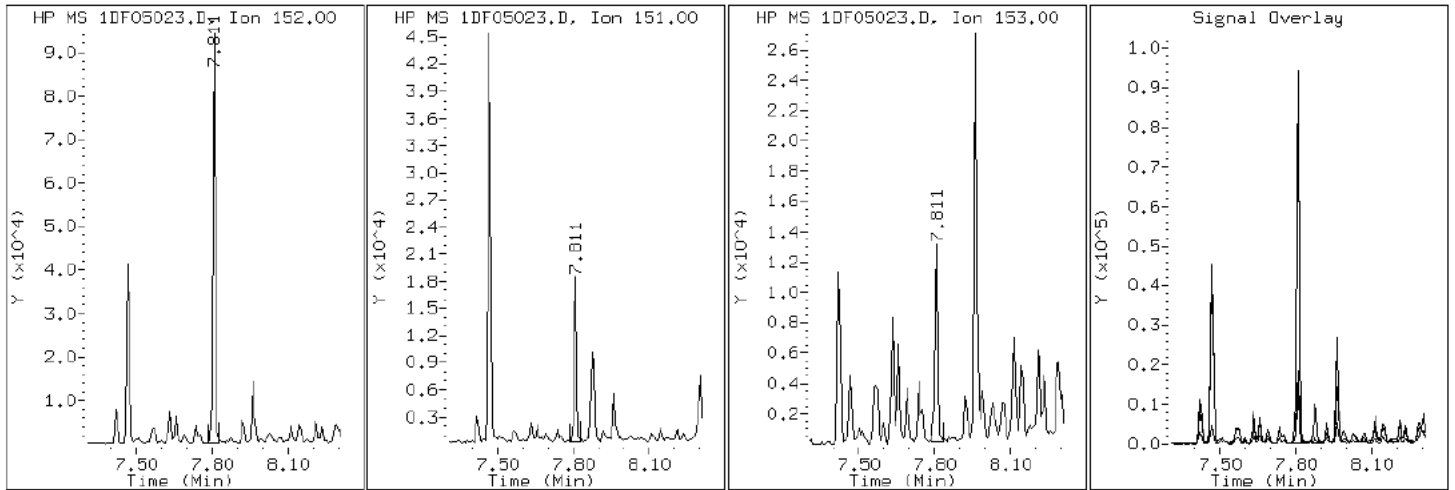
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

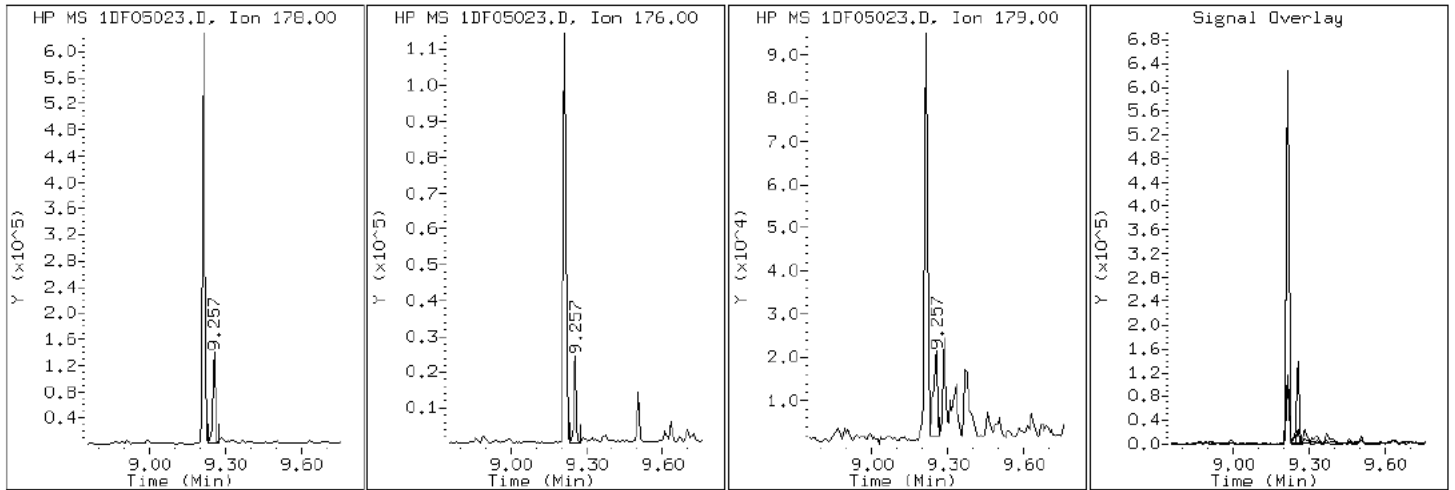
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

13 Anthracene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

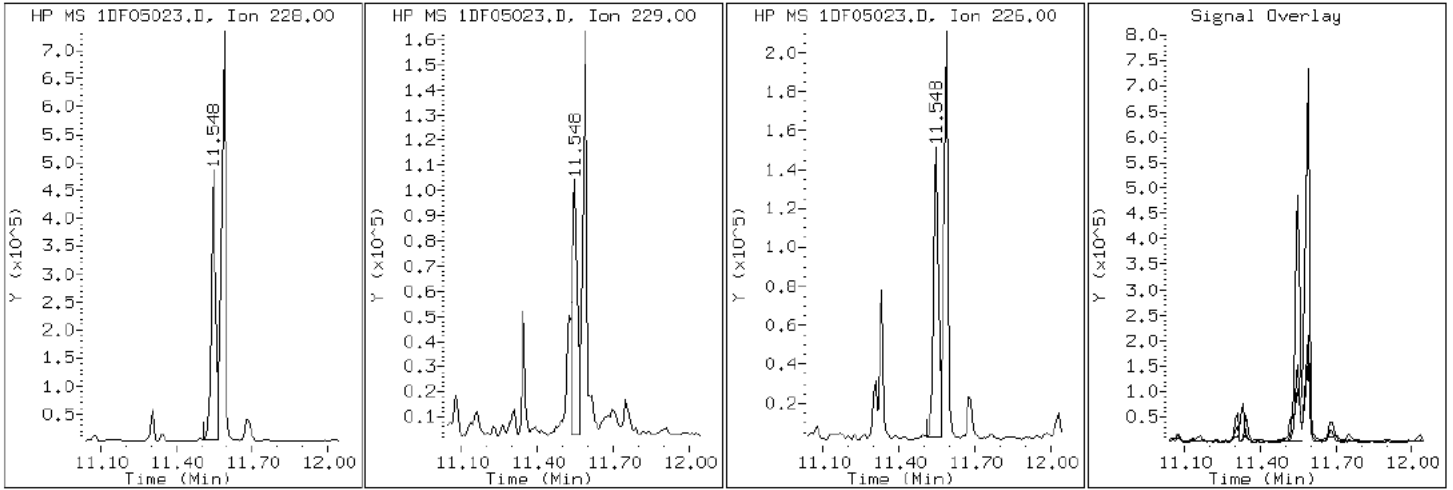
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

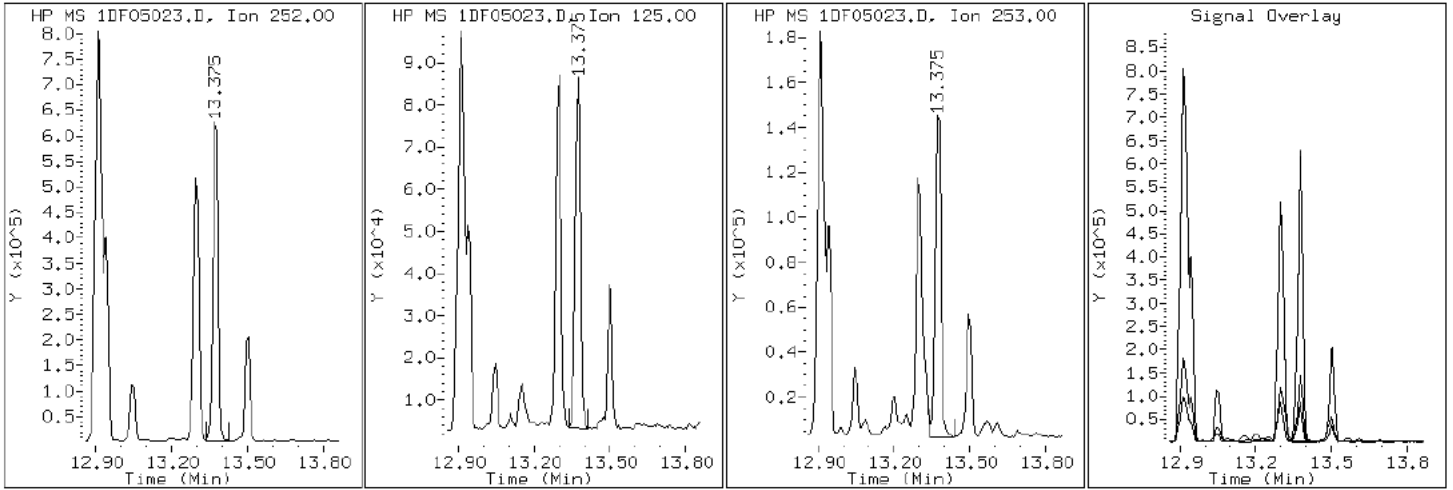
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

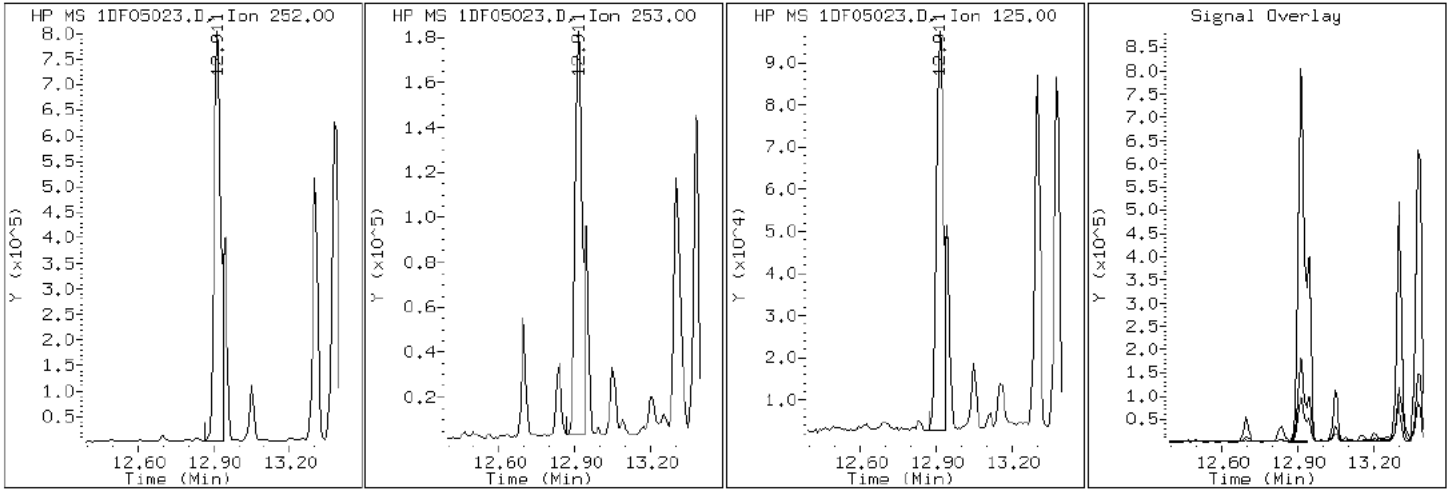
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

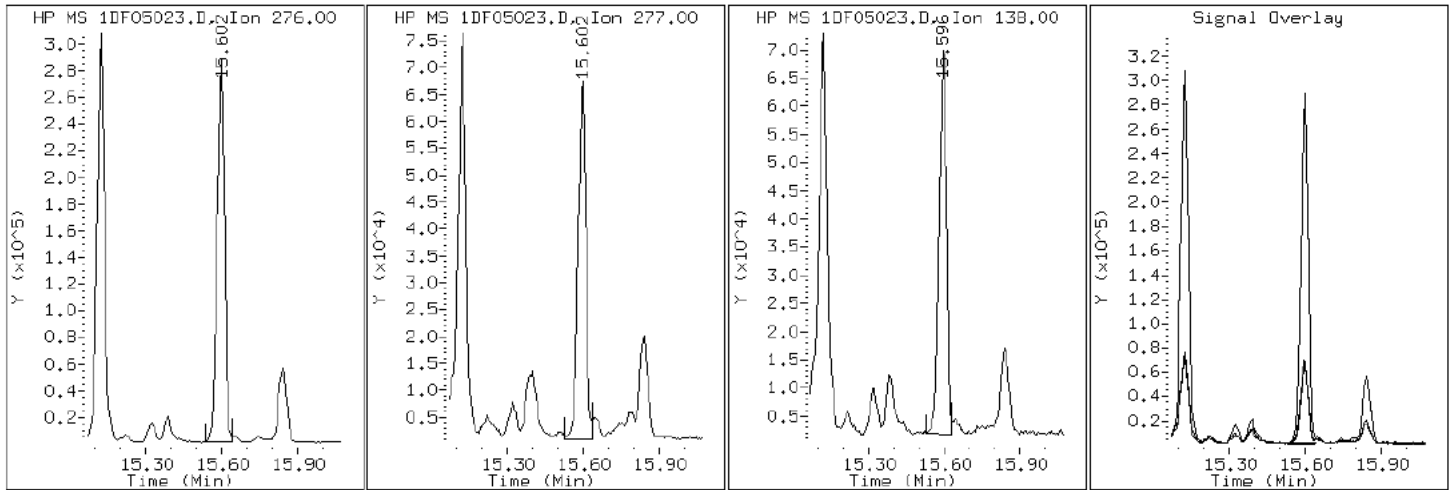
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

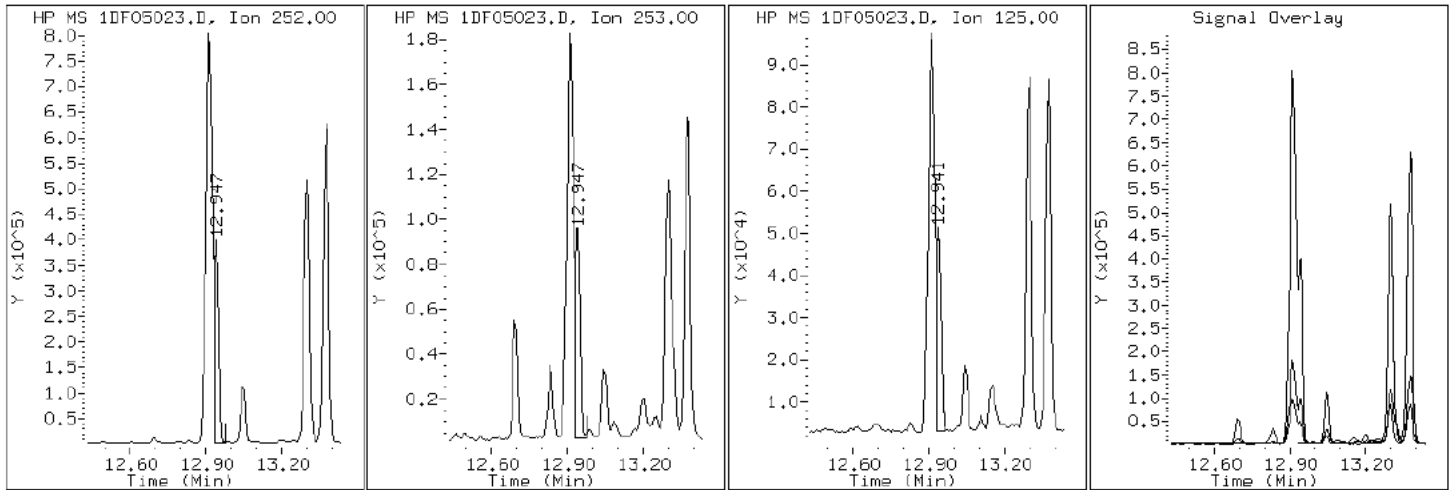
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

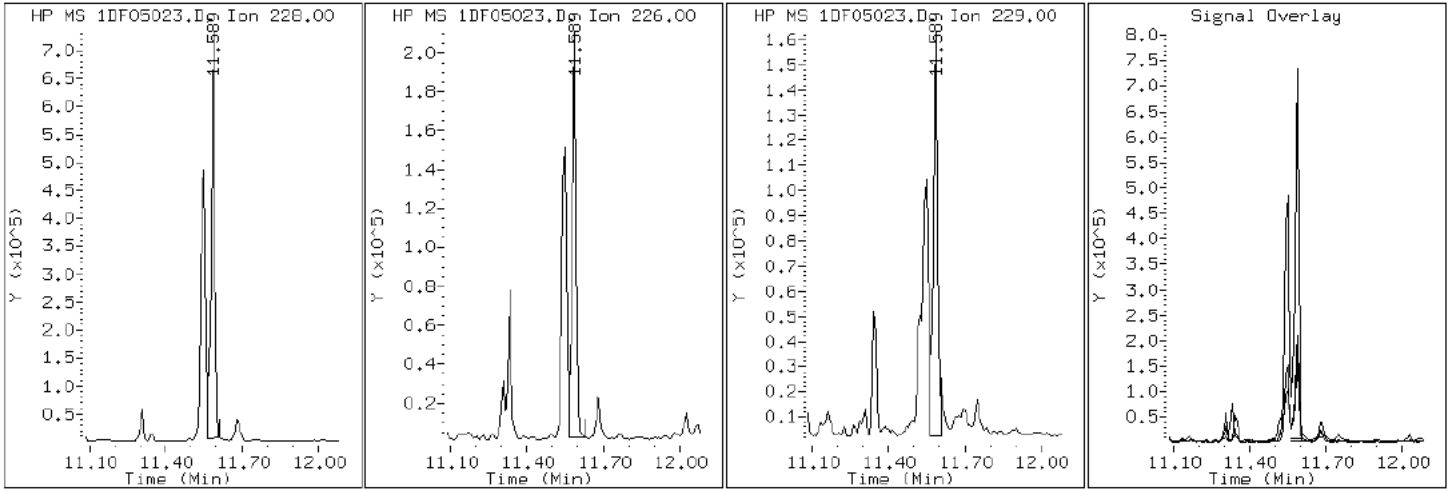
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

20 Chrysene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

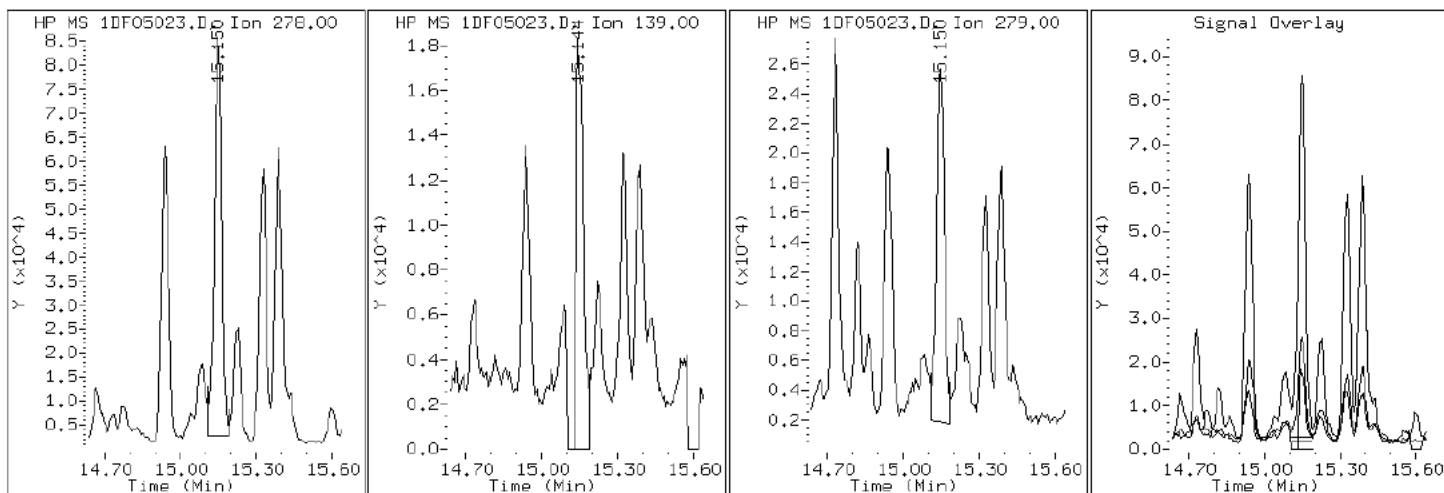
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

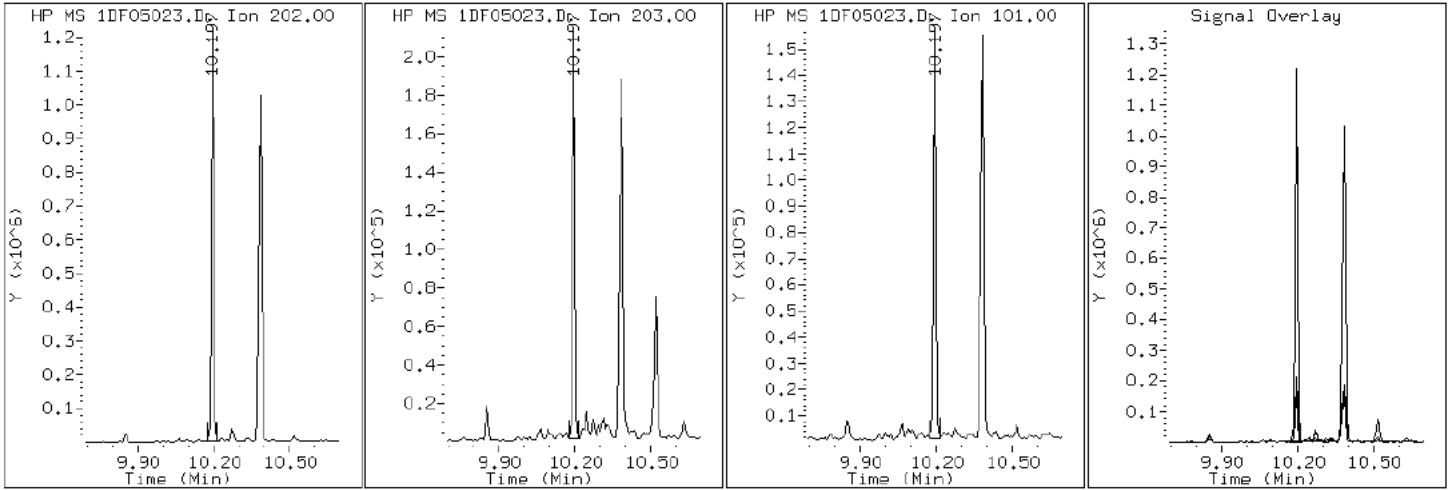
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

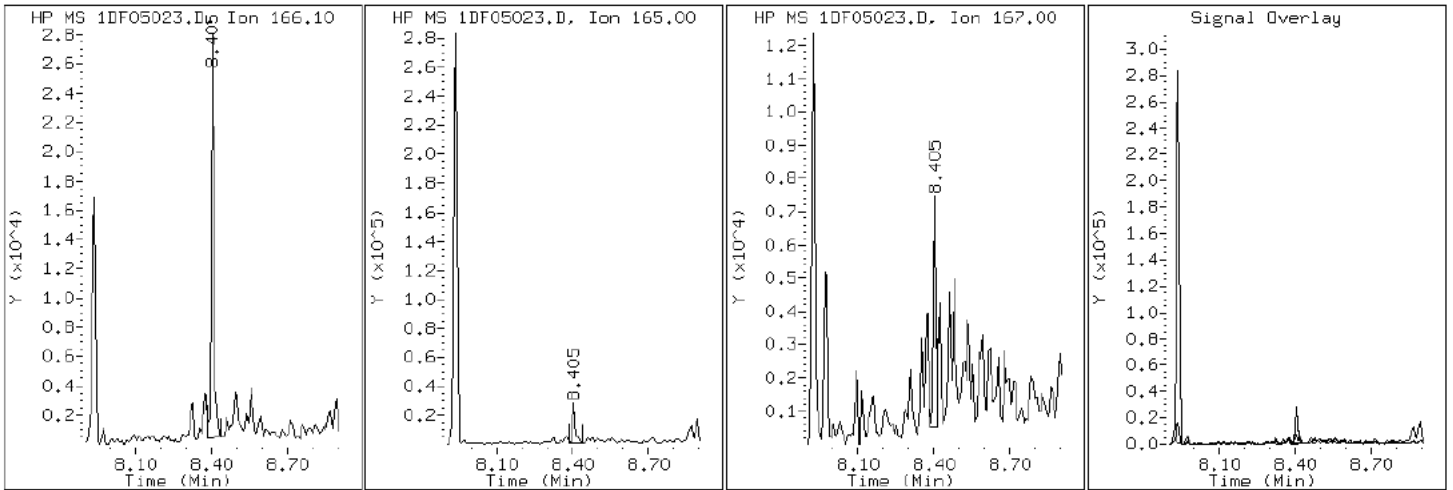
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

10 Fluorene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

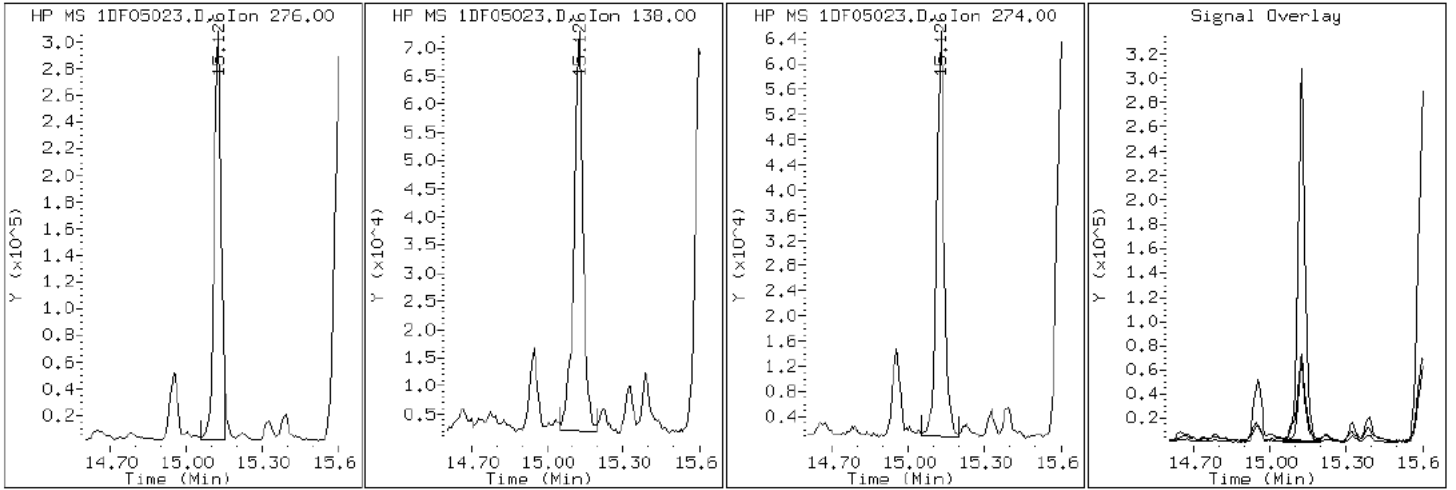
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

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



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

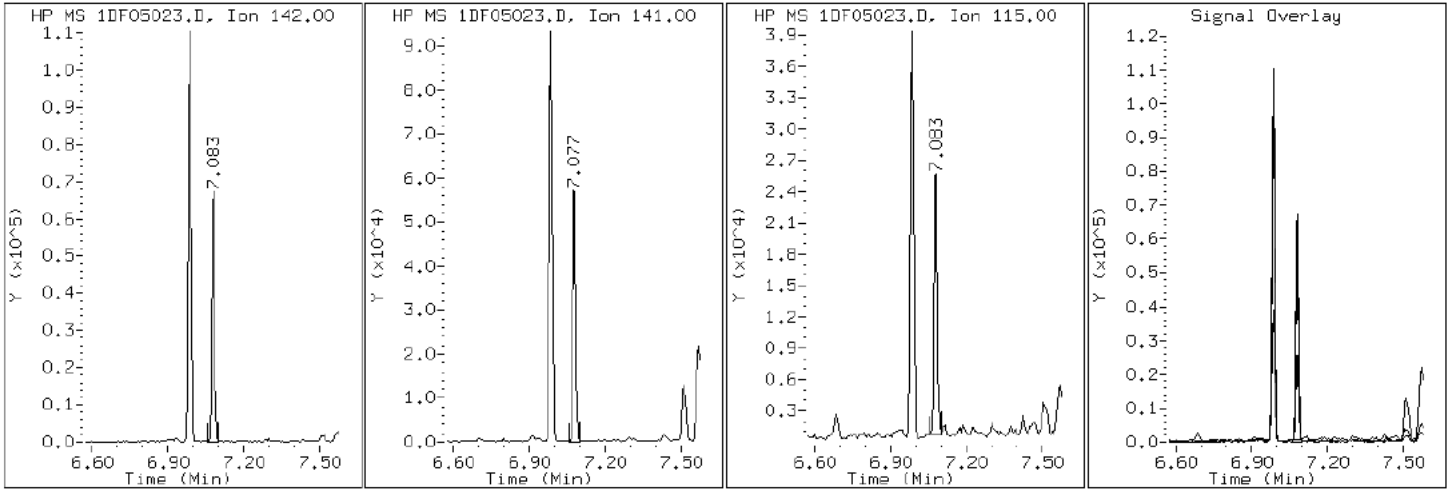
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

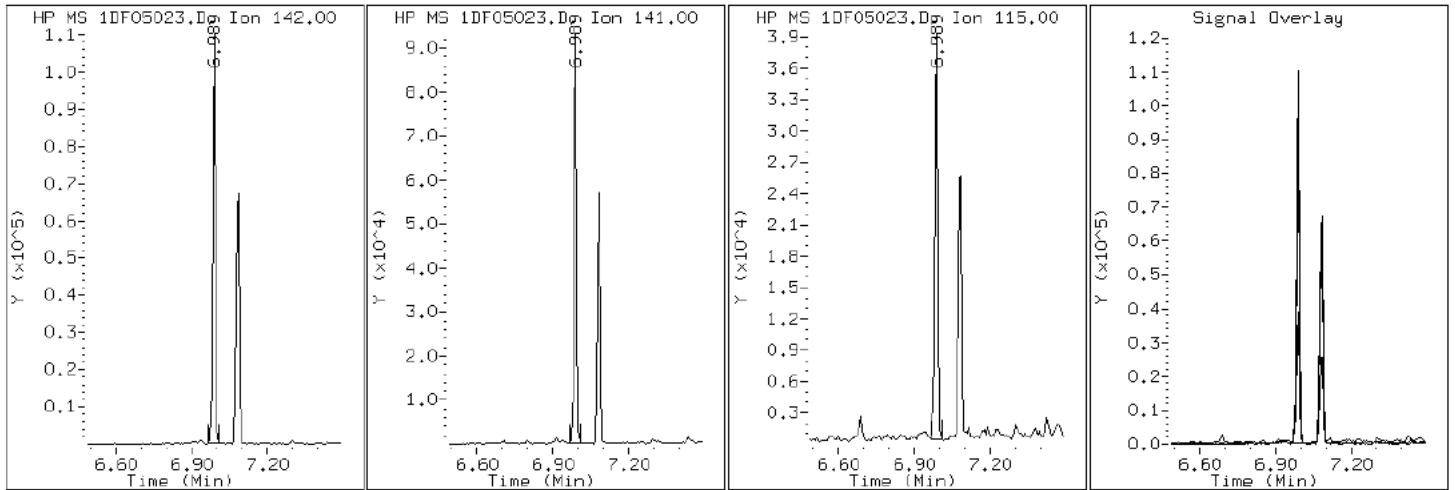
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

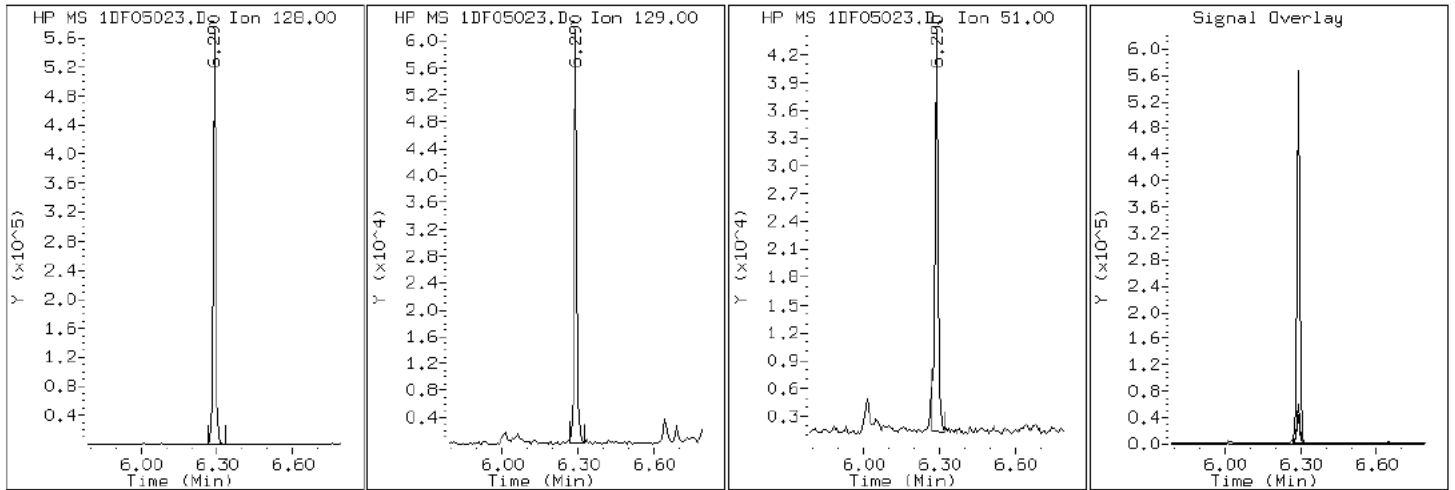
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

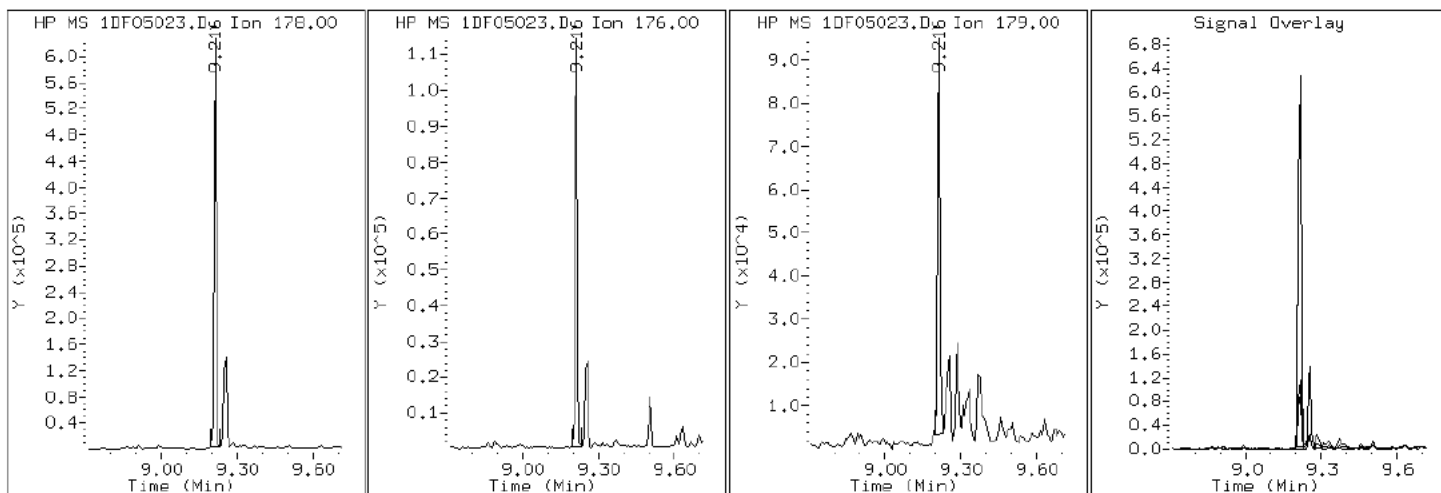
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05023.D

Date: 05-JUN-2013 19:26

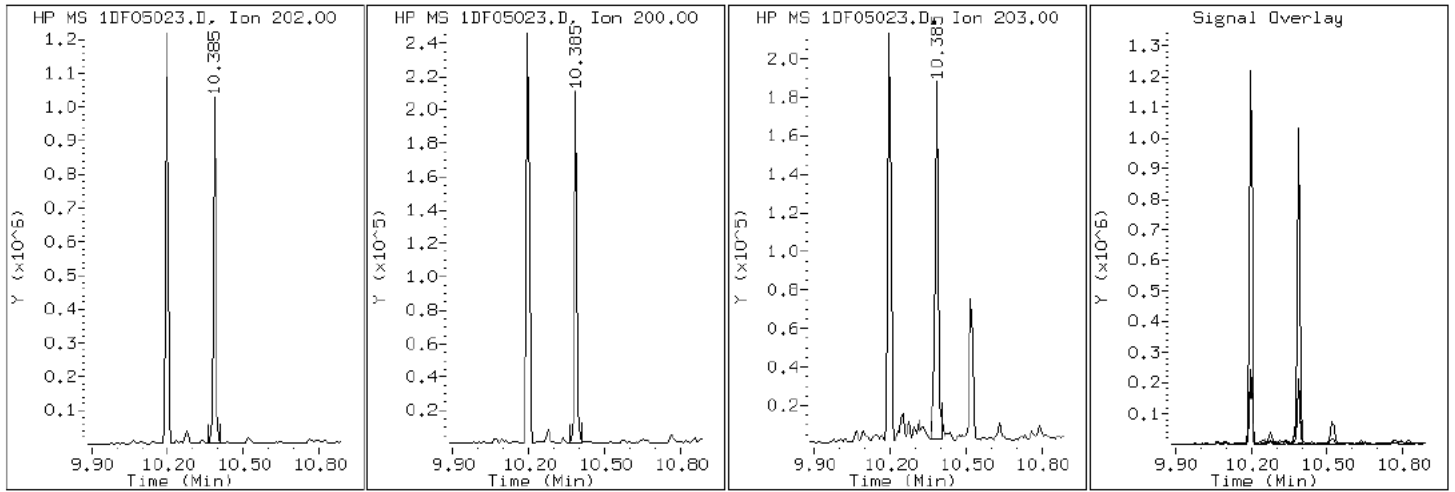
Client ID: HP0036A-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-15-a

Operator: SCC

17 Pyrene

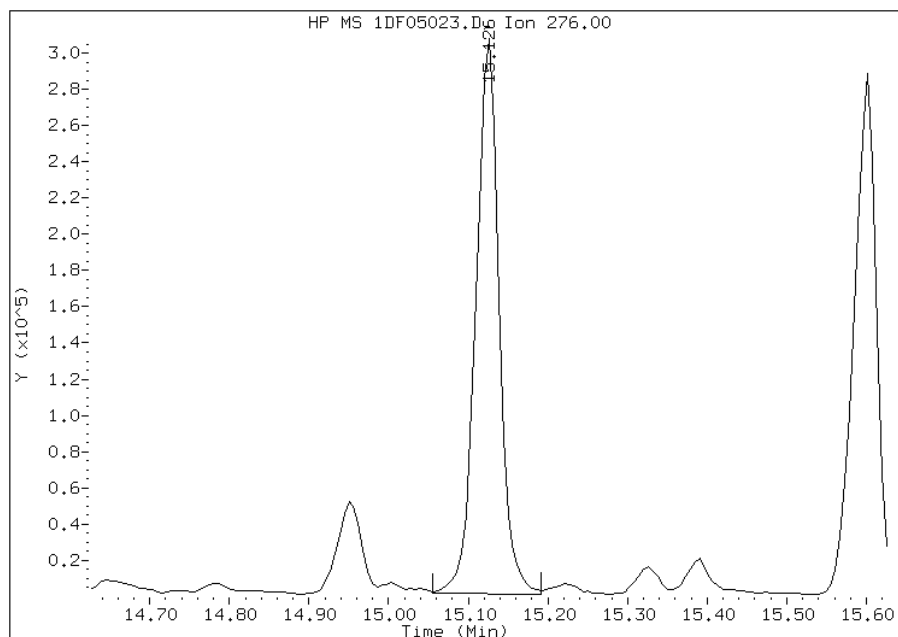


Manual Integration Report

Data File: 1DF05023.D
Inj. Date and Time: 05-JUN-2013 19:26
Instrument ID: BSMSD.i
Client ID: HP0036A-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

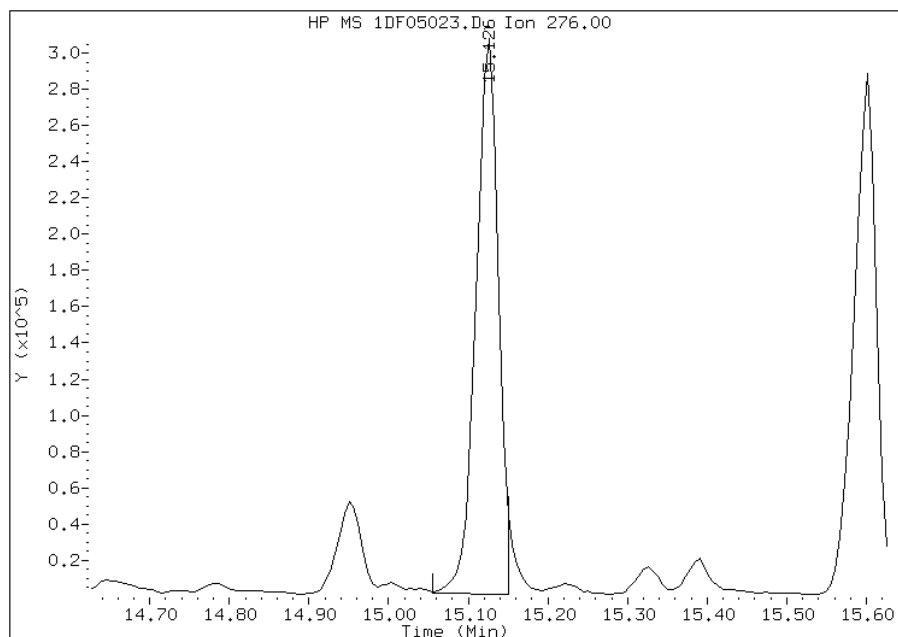
Processing Integration Results

RT: 15.13
Response: 617686
Amount: 8
Conc: 641



Manual Integration Results

RT: 15.13
Response: 594406
Amount: 8
Conc: 618



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: HP0036B-CS-SP Lab Sample ID: 680-90686-16
 Matrix: Solid Lab File ID: 1DF05024.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:31
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.05(g) Date Analyzed: 06/05/2013 19:48
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	99
208-96-8	Acenaphthylene	72	J	200	25
120-12-7	Anthracene	78		41	21
56-55-3	Benzo[a]anthracene	250		40	19
50-32-8	Benzo[a]pyrene	330		51	26
205-99-2	Benzo[b]fluoranthene	500		60	30
191-24-2	Benzo[g,h,i]perylene	210		99	22
207-08-9	Benzo[k]fluoranthene	180		40	18
218-01-9	Chrysene	350		44	22
53-70-3	Dibenz(a,h)anthracene	84	J	99	20
206-44-0	Fluoranthene	390		99	20
86-73-7	Fluorene	99	U	99	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		99	35
90-12-0	1-Methylnaphthalene	74	J	200	22
91-57-6	2-Methylnaphthalene	120	J	200	35
91-20-3	Naphthalene	140	J	200	22
85-01-8	Phenanthrene	260		40	19
129-00-0	Pyrene	320		99	18

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05024.D
 Lab Smp Id: 680-90686-A-16-A Client Smp ID: HP0036B-CS-SP
 Inj Date : 05-JUN-2013 19:48
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-16-a
 Misc Info : 680-90686-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 24
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	19.302	% 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		6.271	6.265	(1.000)	3118629	40.0000	
* 7 Acenaphthene-d10	164		7.940	7.934	(1.000)	1674783	40.0000	
* 11 Phenanthrene-d10	188		9.197	9.191	(1.000)	2586741	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.503	(1.033)	94939	2.50522	820
* 19 Chrysene-d12	240		11.559	11.553	(1.000)	2526169	40.0000	
* 24 Perylene-d12	264		13.468	13.457	(1.000)	2783289	40.0000	
2 Naphthalene	128		6.289	6.289	(1.003)	32419	0.42154	140
3 2-Methylnaphthalene	142		6.988	6.988	(1.114)	17958	0.36673	120
4 1-Methylnaphthalene	142		7.082	7.076	(1.129)	11266	0.22348	74
5 1,1'-Biphenyl	154		7.423	7.423	(0.935)	3664	0.06475	21
6 Acenaphthylene	152		7.810	7.811	(0.984)	15268	0.21988	72
9 Dibenzofuran	168		8.110	8.110	(1.021)	7470	0.12299	40
10 Fluorene	166		8.404	8.404	(1.058)	2786	0.05590	18
12 Phenanthrene	178		9.215	9.215	(1.002)	54391	0.77638	260

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.256	9.256 (1.006)		16044	0.23603	78
16 Fluoranthene	202	10.196	10.196 (1.109)		84422	1.17790	390
17 Pyrene	202	10.384	10.384 (0.898)		71074	0.96098	320
18 Benzo(a)anthracene	228	11.541	11.542 (0.998)		57766	0.77051	250
20 Chrysene	228	11.582	11.583 (1.002)		72515	1.07413	350
21 Benzo(b)fluoranthene	252	12.899	12.893 (0.958)		106764	1.53116	500
22 Benzo(k)fluoranthene	252	12.934	12.934 (0.960)		40904	0.56019	180
23 Benzo(a)pyrene	252	13.363	13.363 (0.992)		62086	0.99788	330
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102 (1.121)		41317	0.71914	240(M)
26 Dibenzo(a,h)anthracene	278	15.137	15.137 (1.124)		12104	0.25393	84
27 Benzo(g,h,i)perylene	276	15.578	15.572 (1.157)		39488	0.62483	200

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05024.D

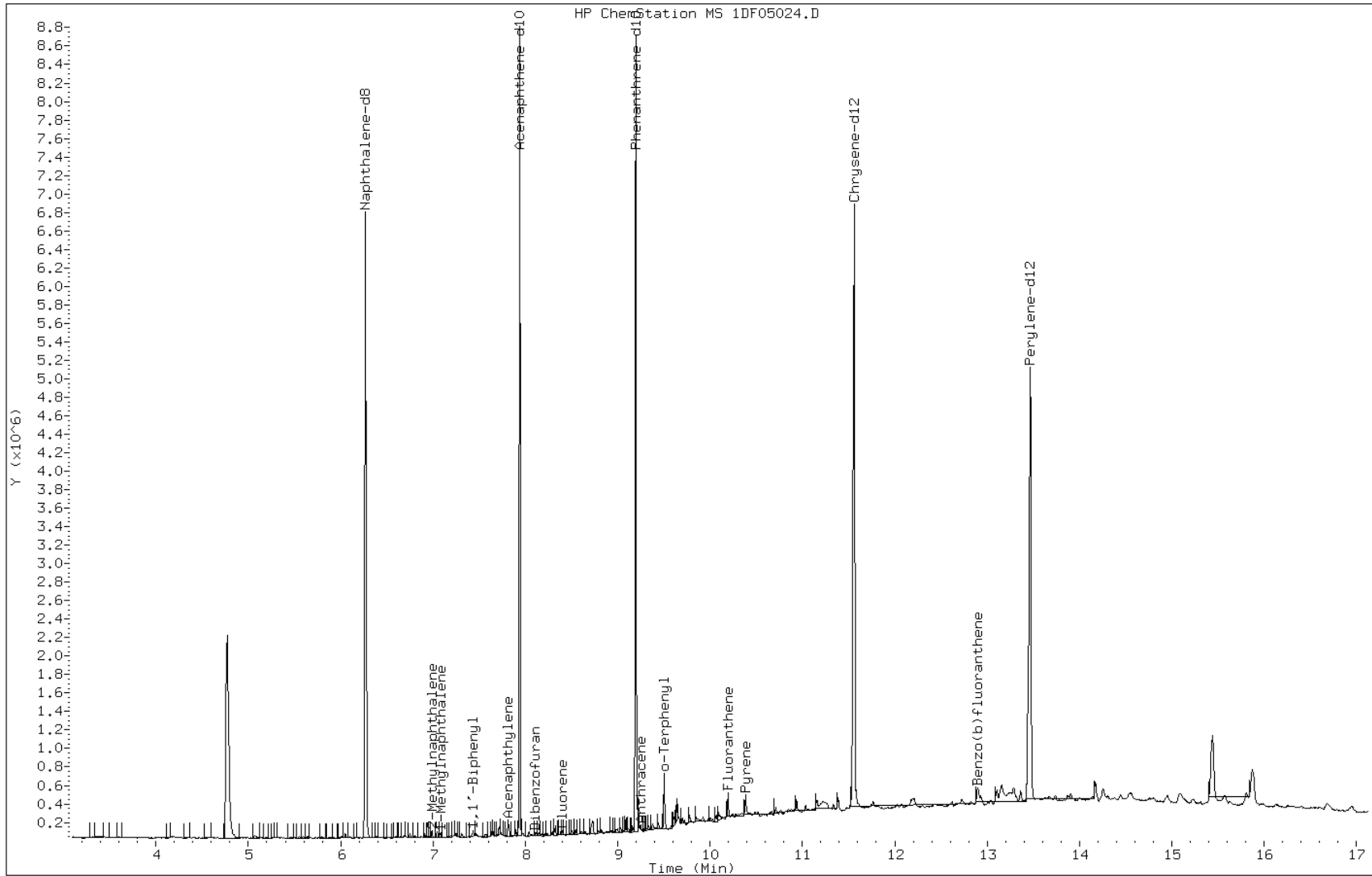
Date: 05-JUN-2013 19:48

Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

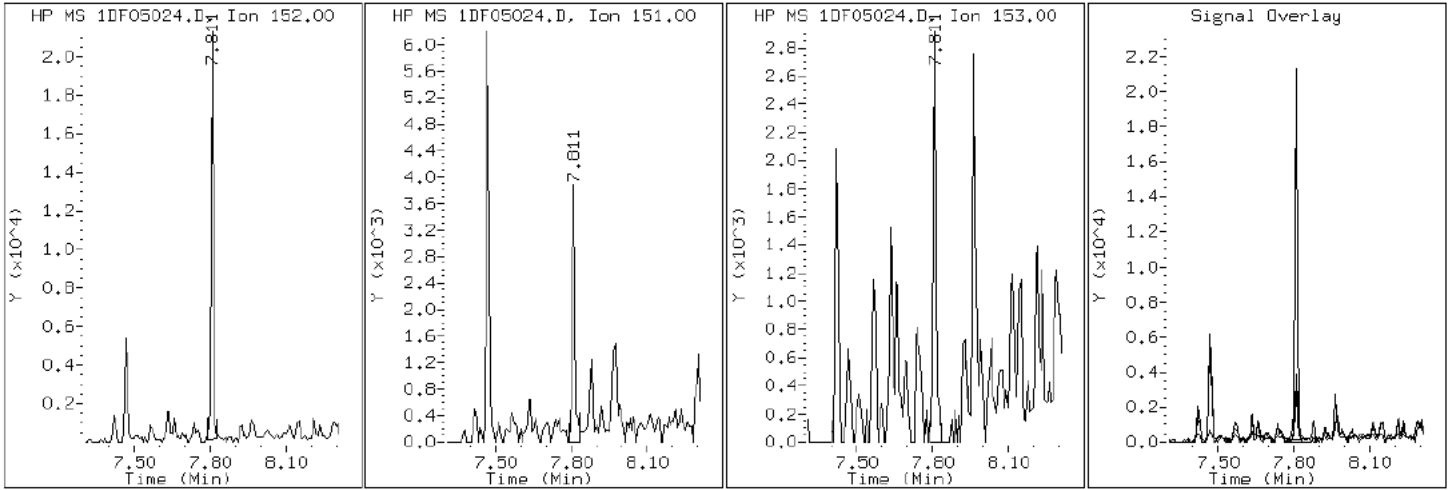
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

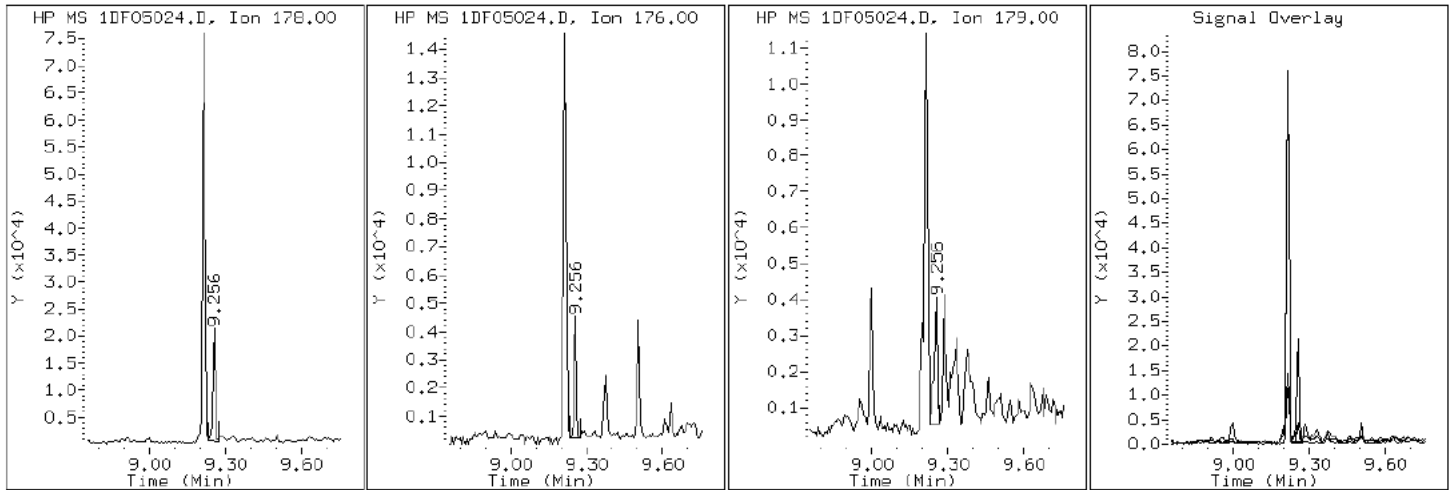
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

13 Anthracene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

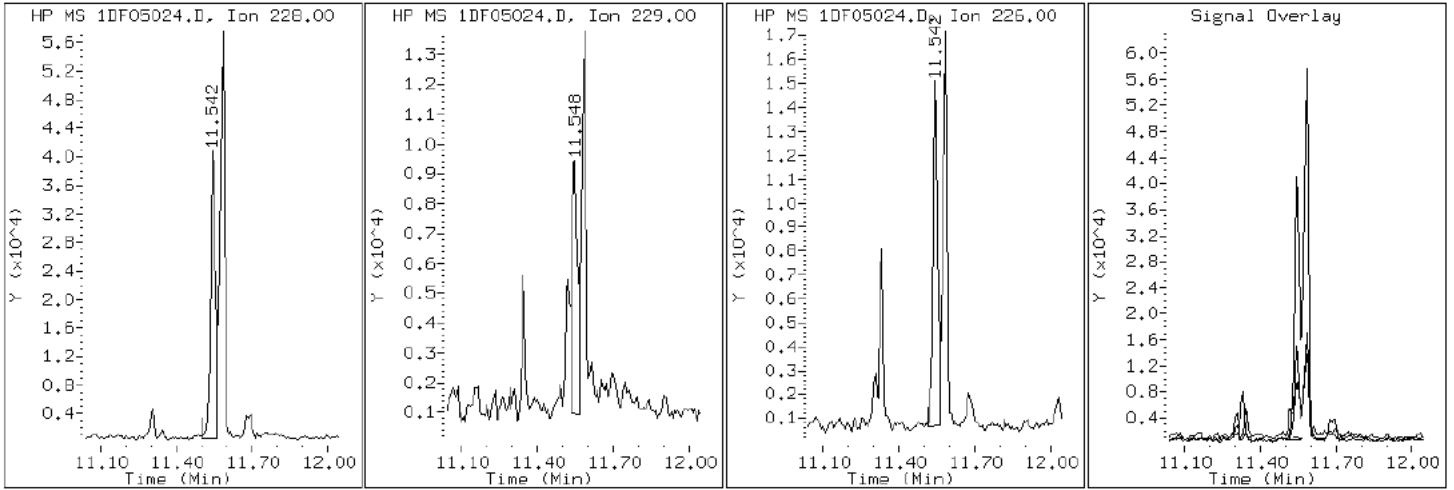
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

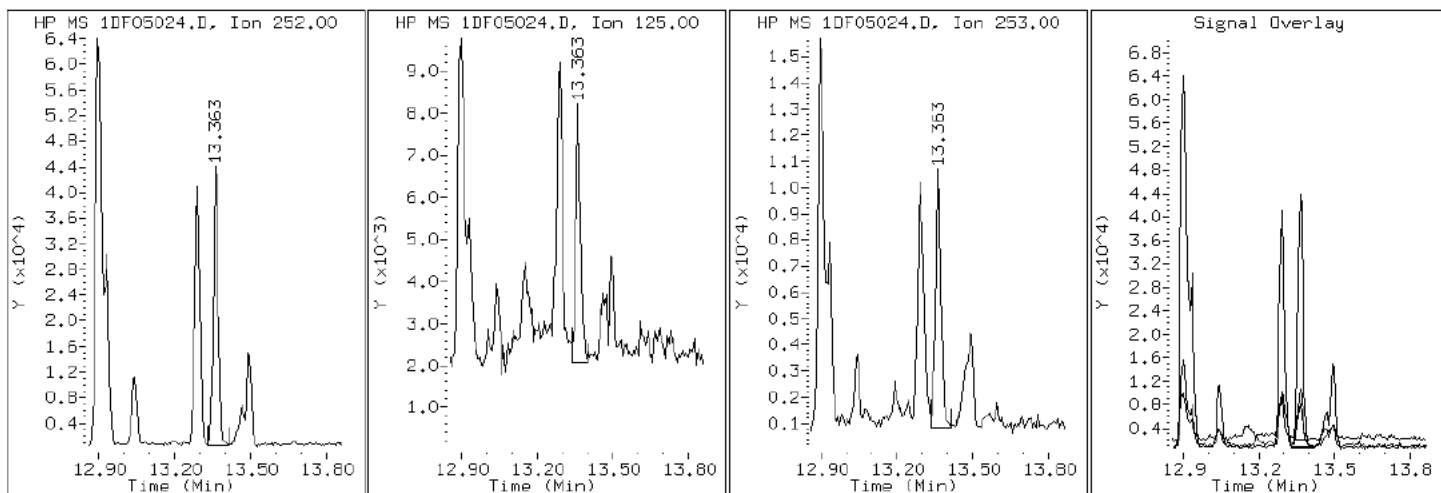
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

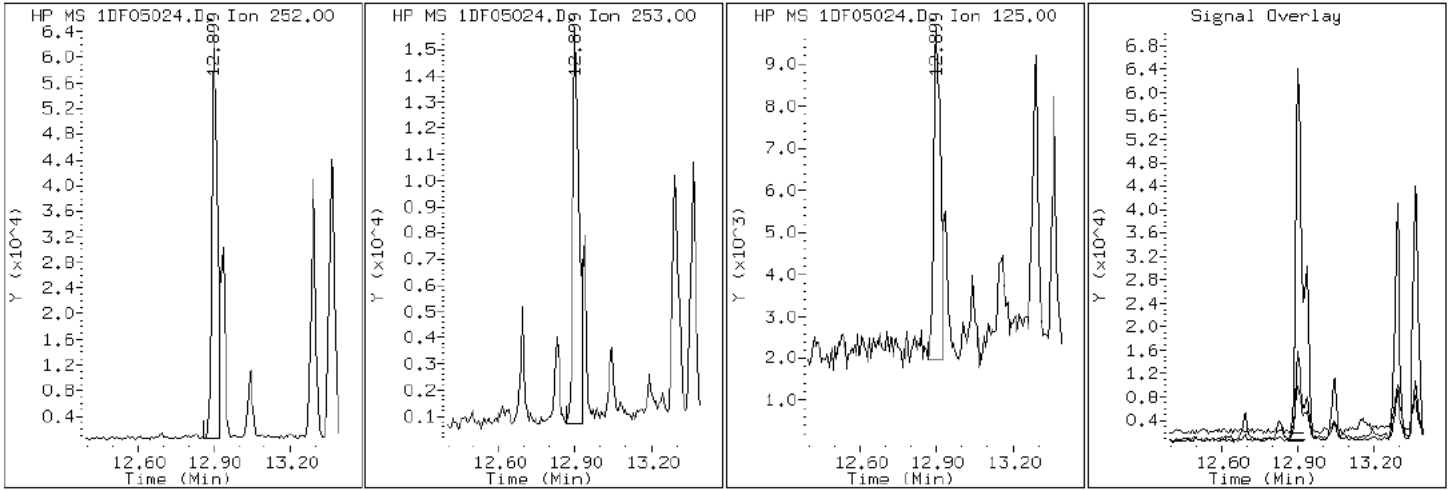
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

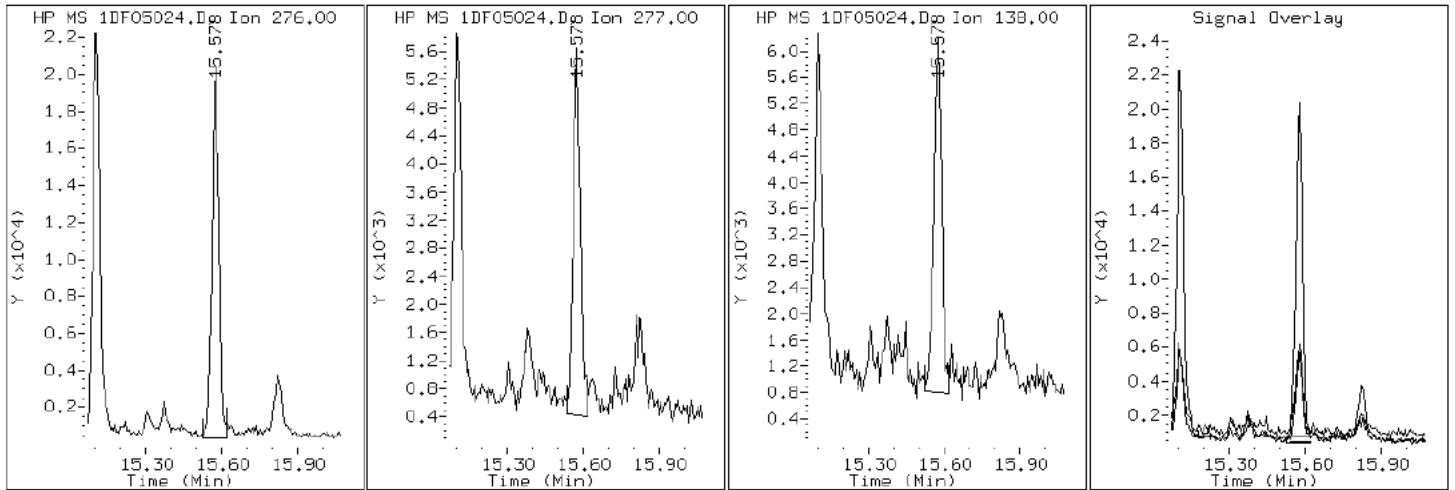
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

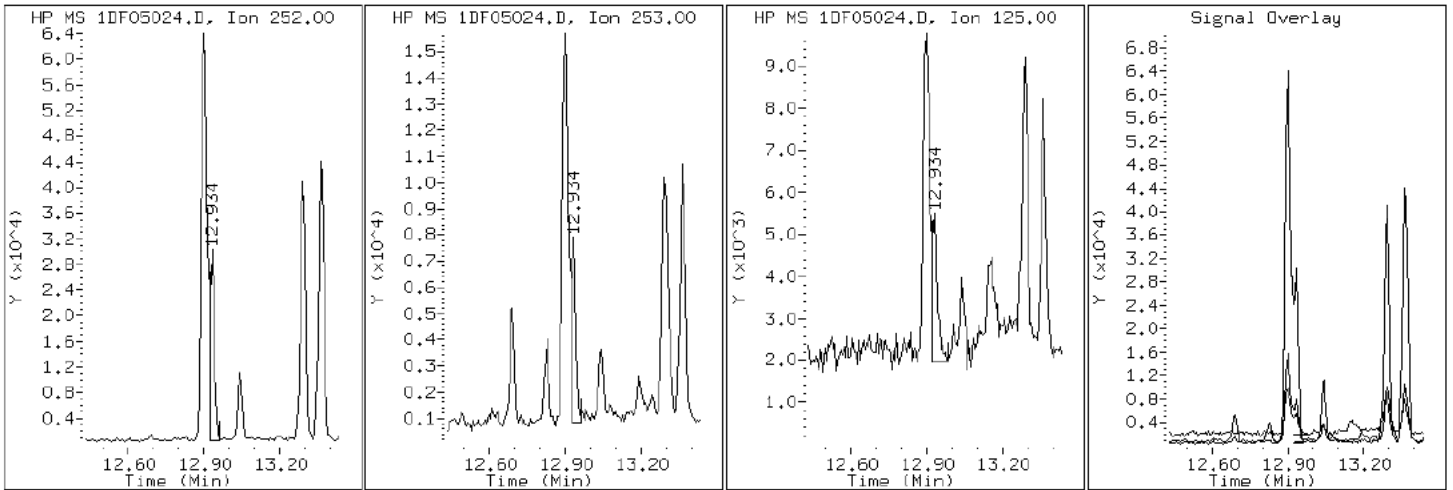
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

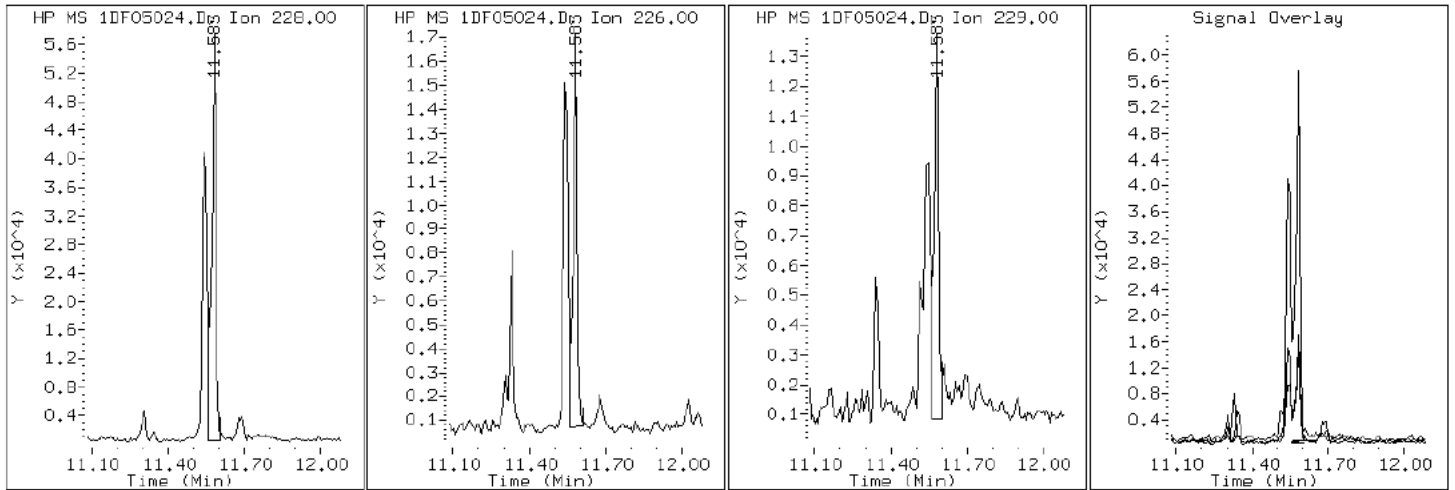
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

20 Chrysene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

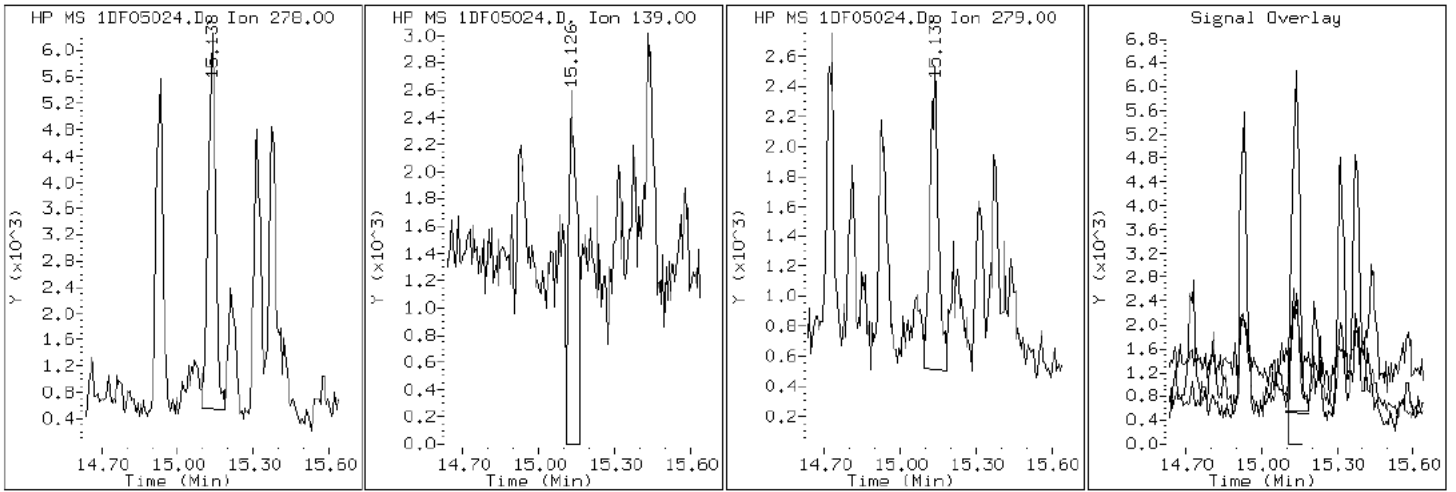
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

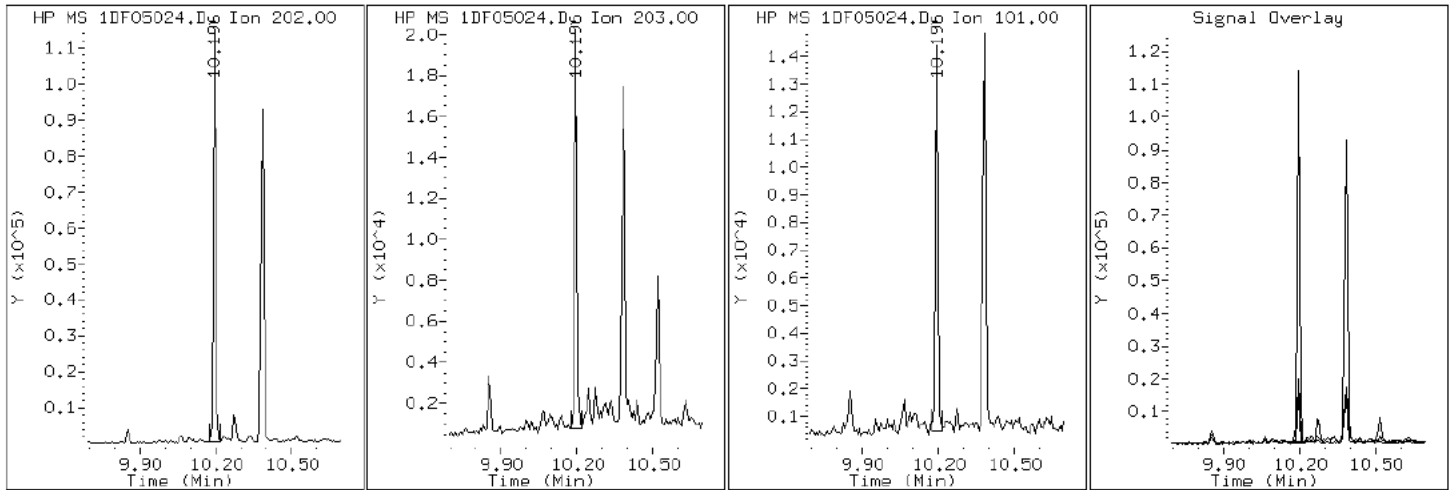
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

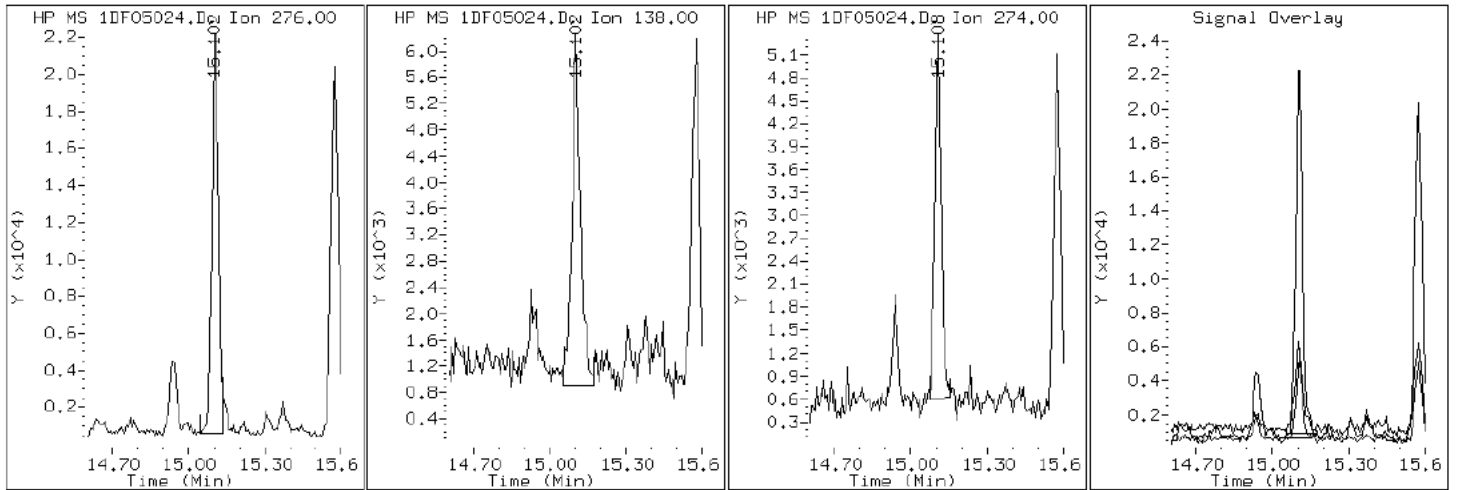
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

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



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

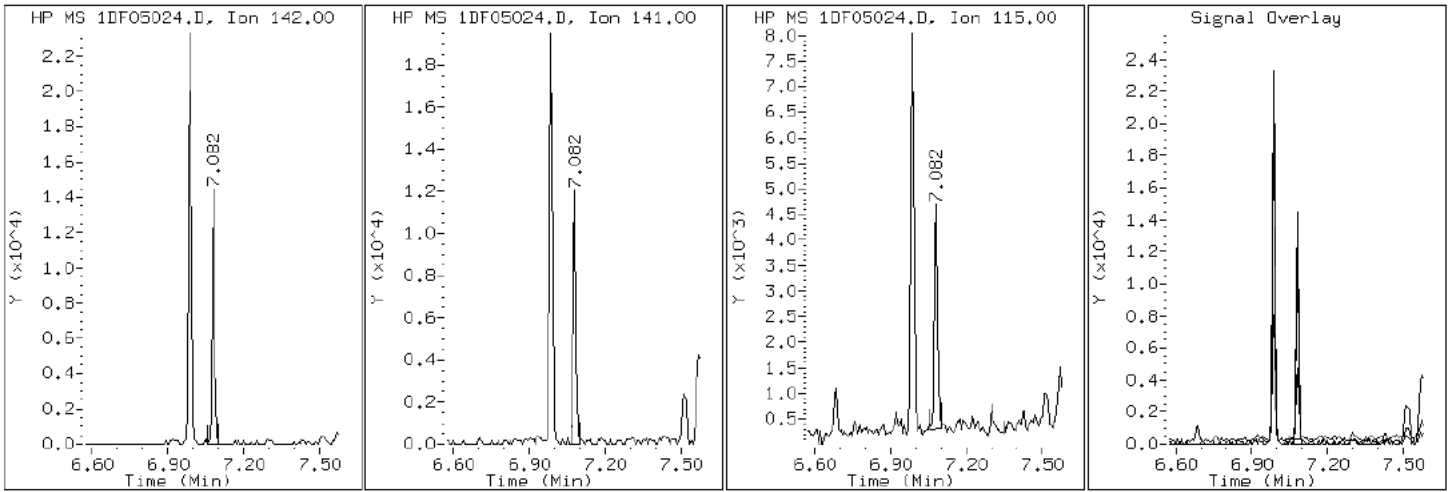
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

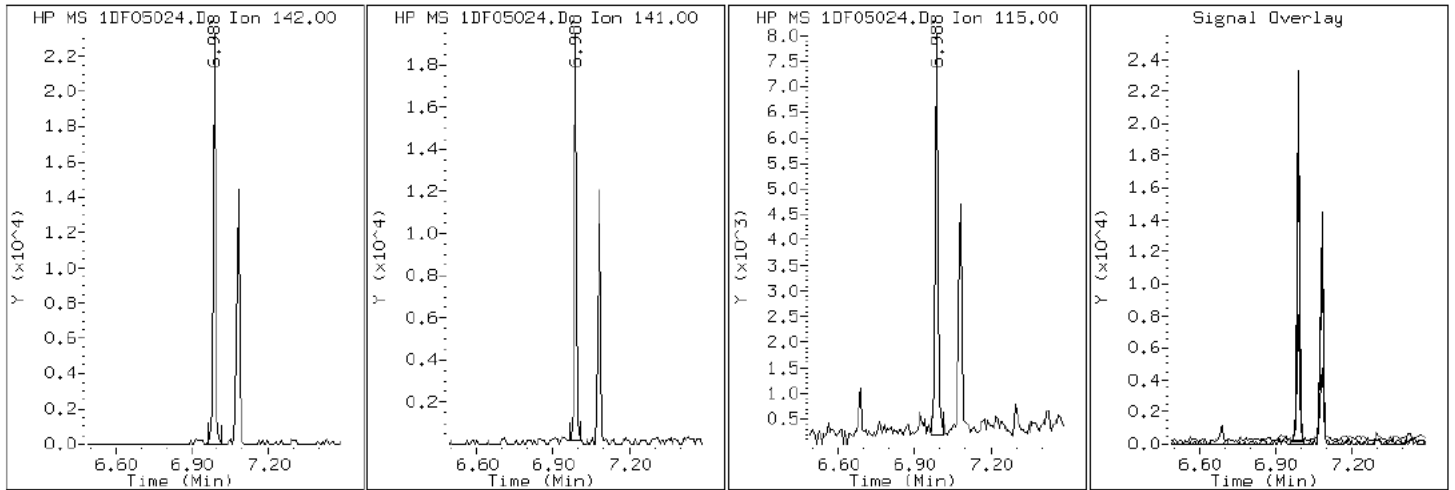
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

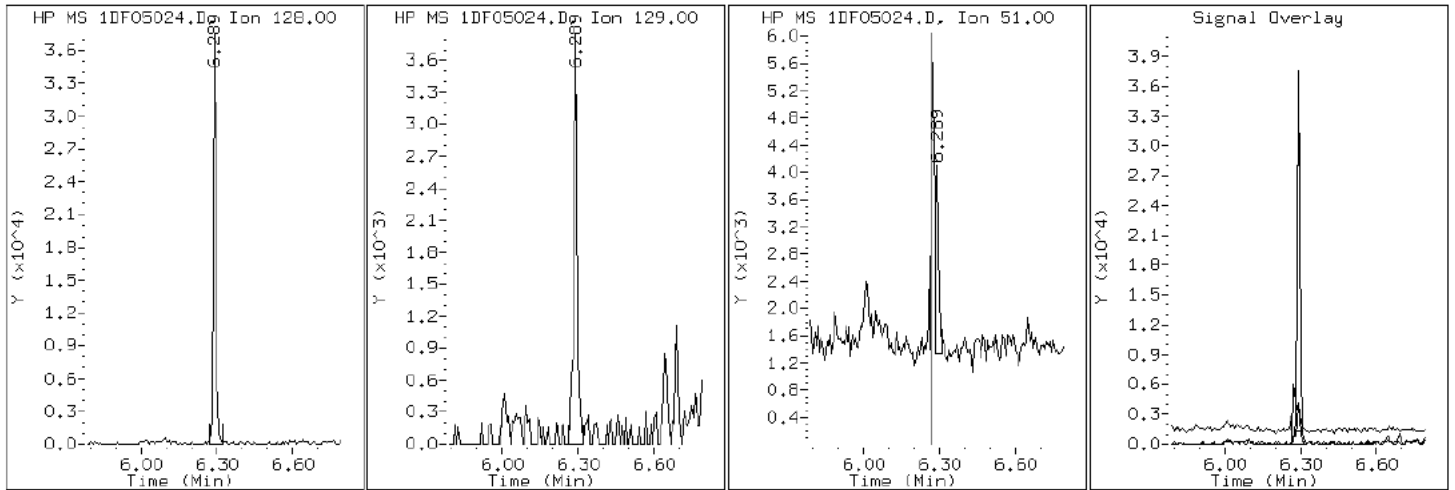
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

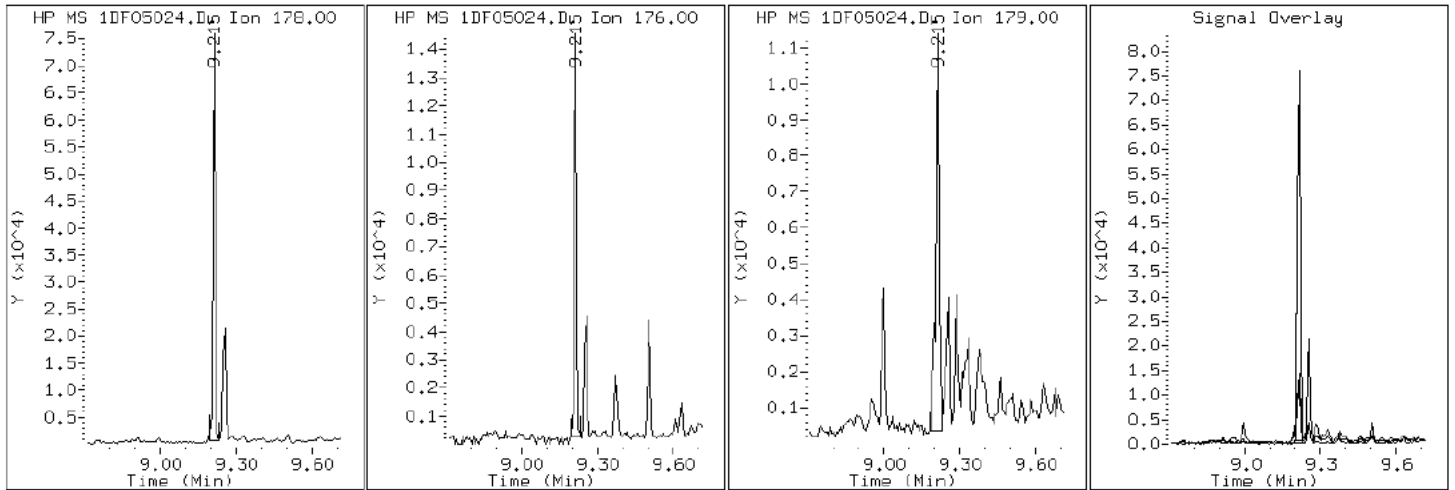
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05024.D

Date: 05-JUN-2013 19:48

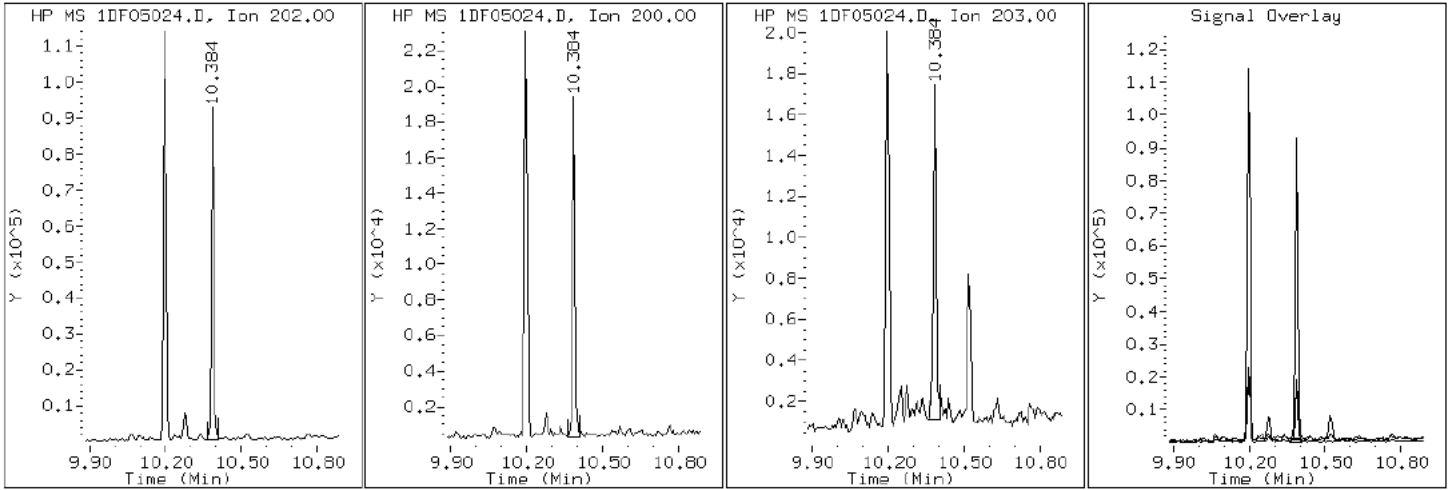
Client ID: HP0036B-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-16-a

Operator: SCC

17 Pyrene

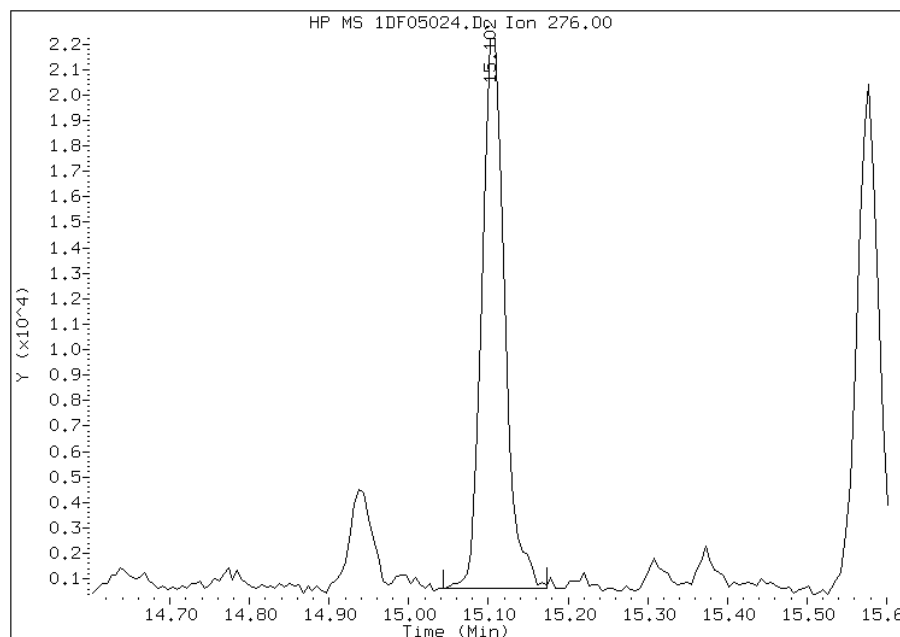


Manual Integration Report

Data File: 1DF05024.D
Inj. Date and Time: 05-JUN-2013 19:48
Instrument ID: BSMSD.i
Client ID: HP0036B-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

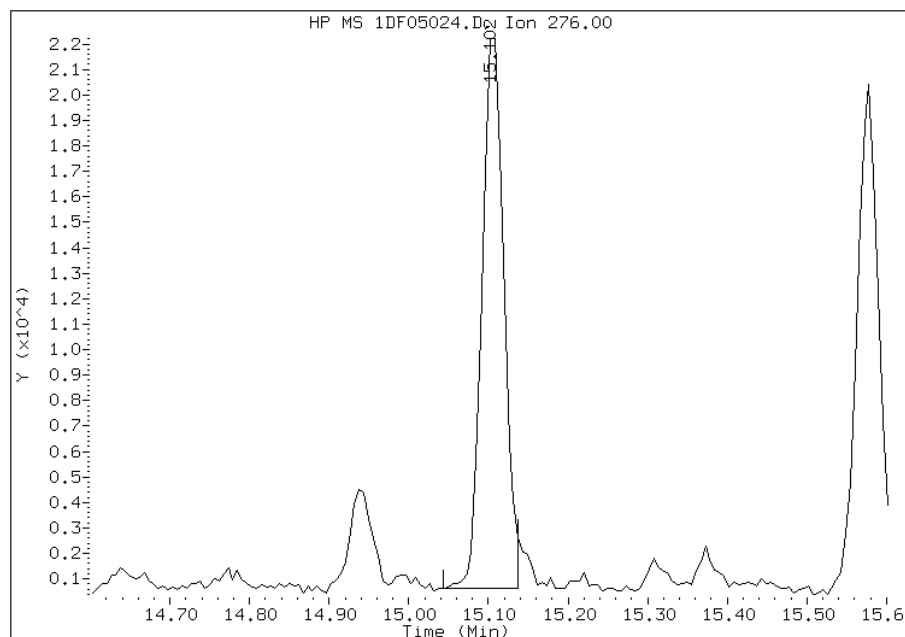
Processing Integration Results

RT: 15.10
Response: 42758
Amount: 1
Conc: 243



Manual Integration Results

RT: 15.10
Response: 41317
Amount: 1
Conc: 237



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: HP0036C-CS-SP Lab Sample ID: 680-90686-17
 Matrix: Solid Lab File ID: 1DF05025.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:45
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.17(g) Date Analyzed: 06/05/2013 20:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	79	J	210	26
120-12-7	Anthracene	160		44	22
56-55-3	Benzo[a]anthracene	510		42	21
50-32-8	Benzo[a]pyrene	500		55	28
205-99-2	Benzo[b]fluoranthene	840		65	32
191-24-2	Benzo[g,h,i]perylene	270		110	23
207-08-9	Benzo[k]fluoranthene	310		42	19
218-01-9	Chrysene	730		48	24
53-70-3	Dibenz(a,h)anthracene	110		110	22
206-44-0	Fluoranthene	900		110	21
86-73-7	Fluorene	49	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	300		110	38
90-12-0	1-Methylnaphthalene	170	J	210	23
91-57-6	2-Methylnaphthalene	270		210	38
91-20-3	Naphthalene	290		210	23
85-01-8	Phenanthrene	650		42	21
129-00-0	Pyrene	720		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05025.D
 Lab Smp Id: 680-90686-A-17-A Client Smp ID: HP0036C-CS-SP
 Inj Date : 05-JUN-2013 20:11
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-17-a
 Misc Info : 680-90686-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 25
 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	15.170	Weight Extracted
M	25.277	% 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	6.272	6.265	(1.000)	3029375	40.0000	
* 7 Acenaphthene-d10	164	7.940	7.934	(1.000)	1647493	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.191	(1.000)	2649339	40.0000	
\$ 15 o-Terphenyl	230	9.503	9.503	(1.033)	91046	2.34573	830
* 19 Chrysene-d12	240	11.560	11.553	(1.000)	2597787	40.0000	
* 24 Perylene-d12	264	13.469	13.457	(1.000)	2743037	40.0000	
2 Naphthalene	128	6.289	6.289	(1.003)	61936	0.82906	290
3 2-Methylnaphthalene	142	6.988	6.988	(1.114)	36881	0.77536	270
4 1-Methylnaphthalene	142	7.082	7.076	(1.129)	22940	0.46846	160
5 1,1'-Biphenyl	154	7.423	7.423	(0.935)	10387	0.18661	66
6 Acenaphthylene	152	7.811	7.811	(0.984)	15337	0.22453	79
9 Dibenzofuran	168	8.111	8.110	(1.021)	17057	0.28548	100
10 Fluorene	166	8.404	8.404	(1.058)	6771	0.13810	49
12 Phenanthrene	178	9.215	9.215	(1.002)	131690	1.83533	650

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
13 Anthracene	178	9.256	9.256 (1.006)		31435	0.45152	160
16 Fluoranthene	202	10.197	10.196 (1.109)		186598	2.54201	900
17 Pyrene	202	10.385	10.384 (0.898)		154830	2.03571	720
18 Benzo(a)anthracene	228	11.542	11.542 (0.998)		111928	1.45179	510
20 Chrysene	228	11.583	11.583 (1.002)		144069	2.07520	730
21 Benzo(b)fluoranthene	252	12.899	12.893 (0.958)		163999	2.38651	840
22 Benzo(k)fluoranthene	252	12.934	12.934 (0.960)		64229	0.89253	310
23 Benzo(a)pyrene	252	13.363	13.363 (0.992)		90158	1.42371	500
25 Indeno(1,2,3-cd)pyrene	276	15.108	15.102 (1.122)		49372	0.84050	300(M)
26 Dibenzo(a,h)anthracene	278	15.138	15.137 (1.124)		16428	0.32256	110
27 Benzo(g,h,i)perylene	276	15.578	15.572 (1.157)		48378	0.77673	270

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05025.D

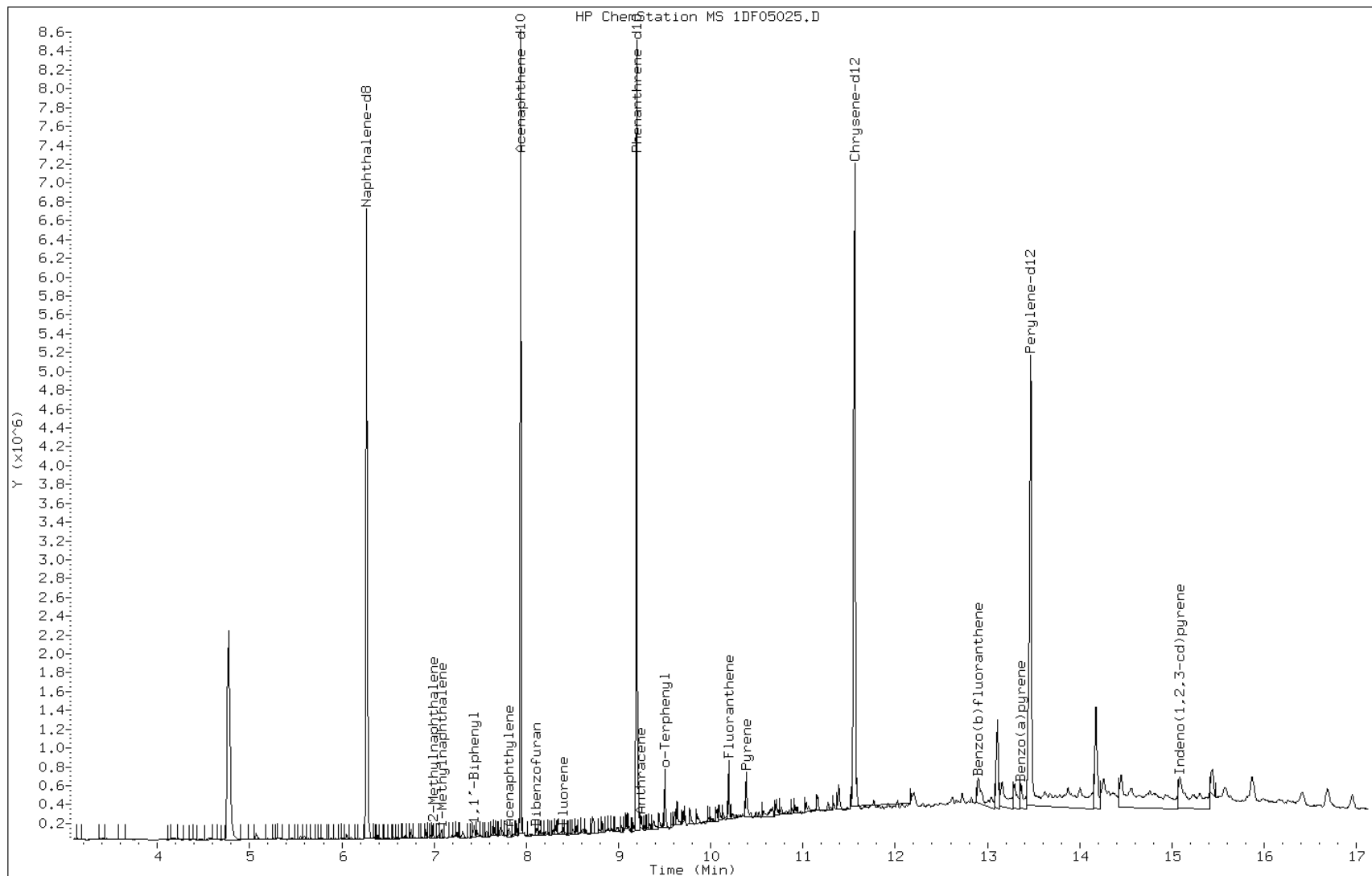
Date: 05-JUN-2013 20:11

Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

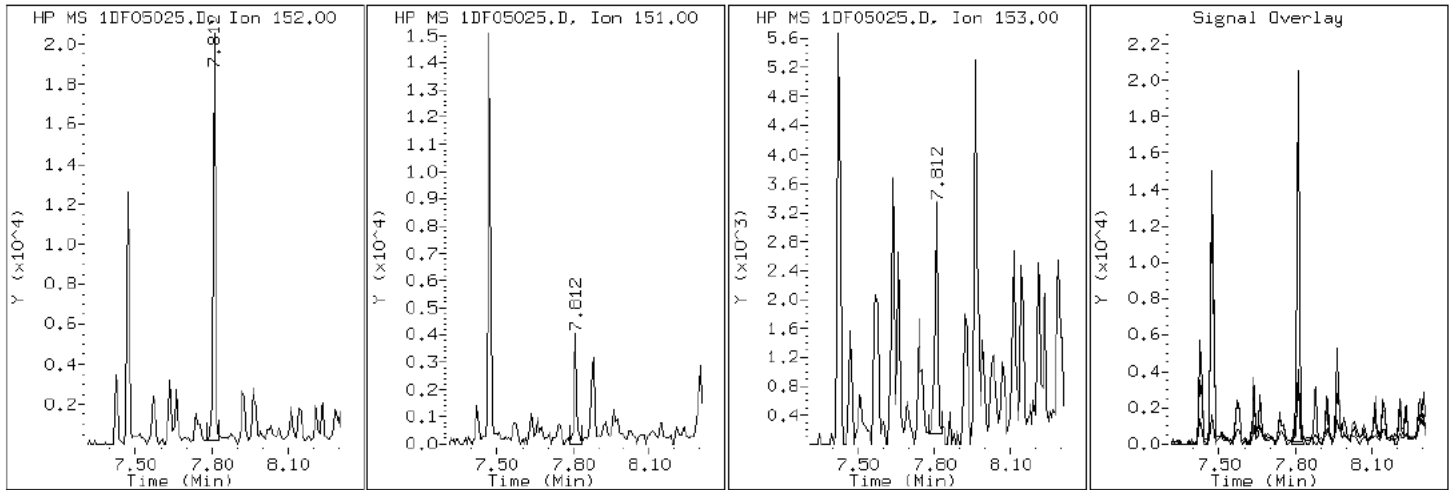
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

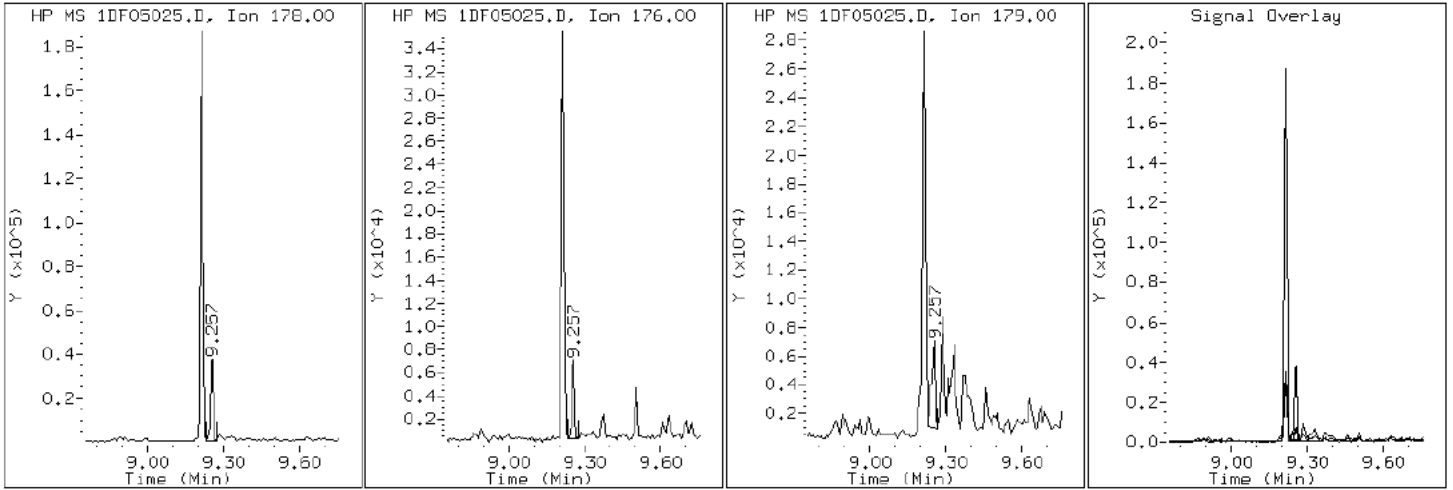
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

13 Anthracene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

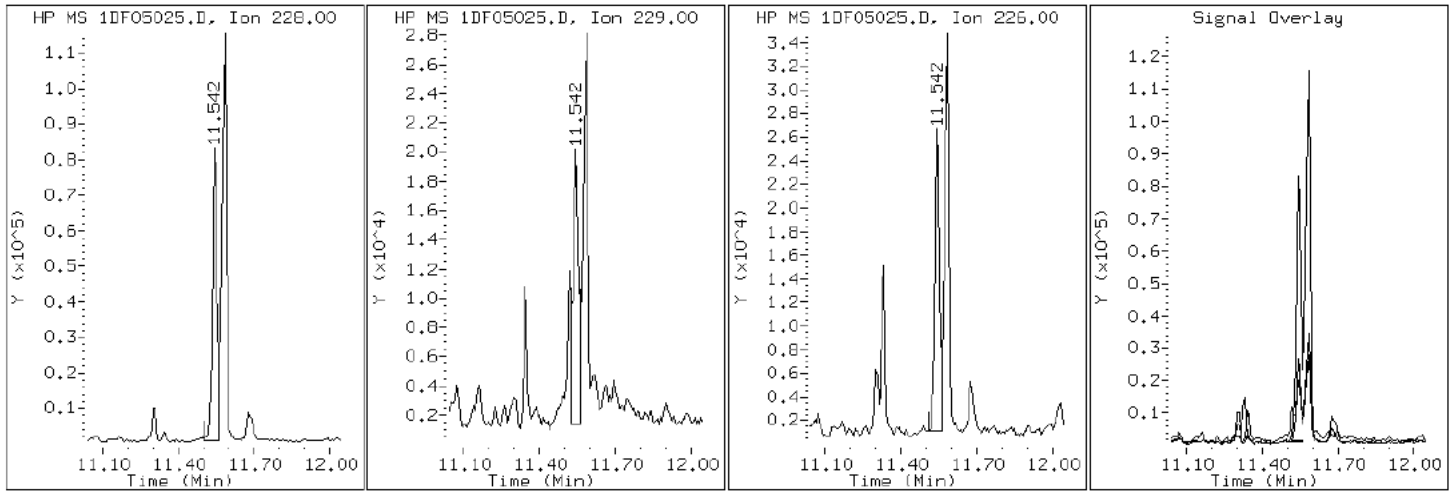
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

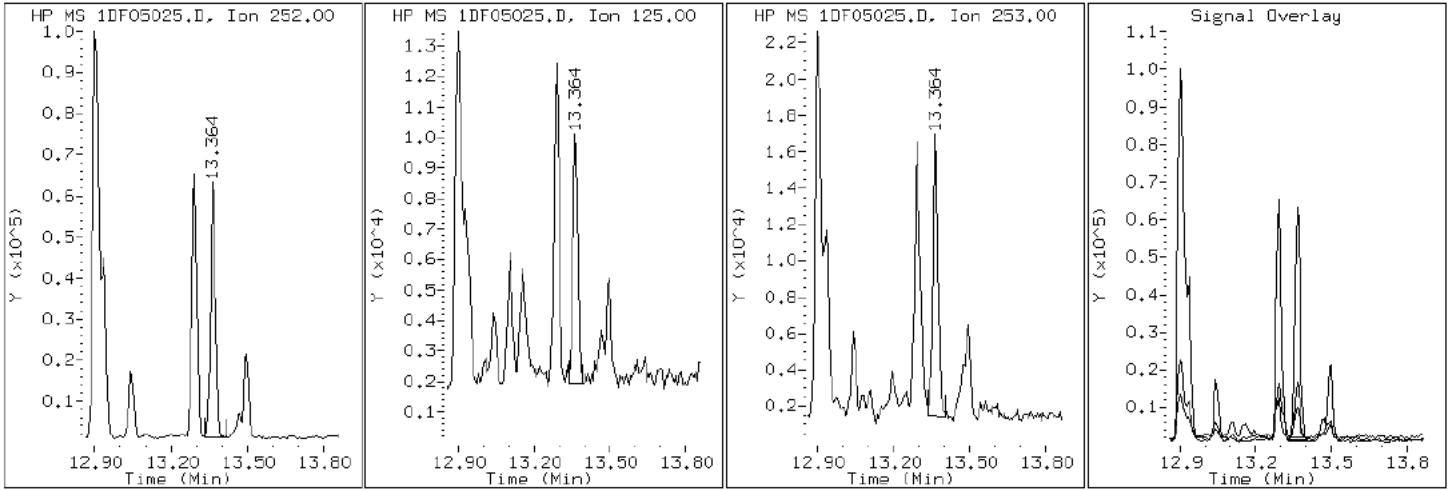
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

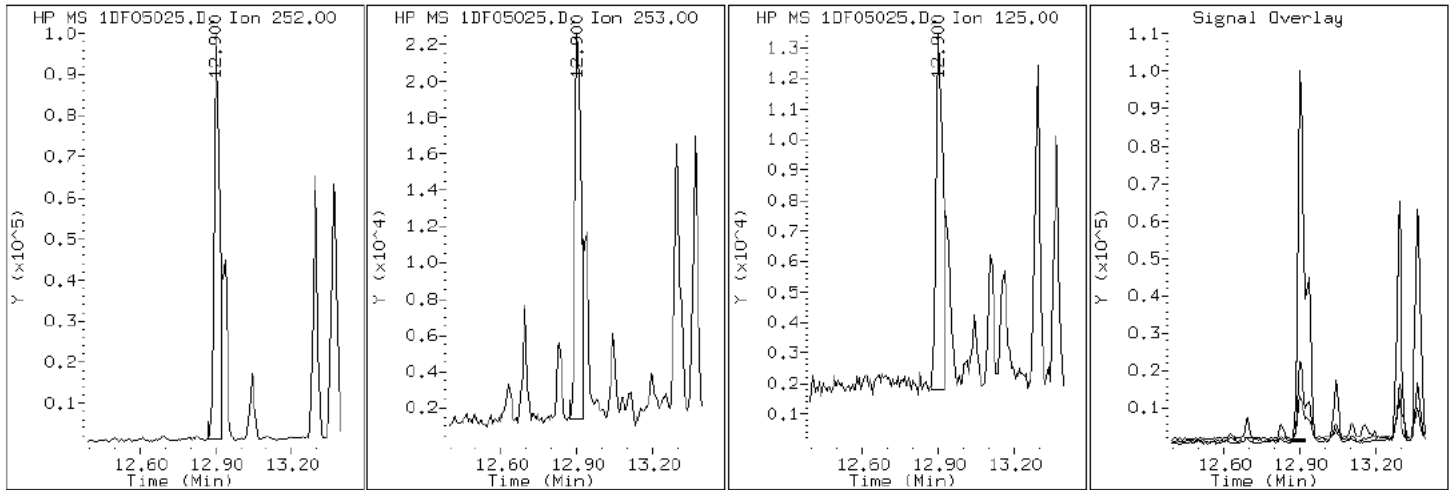
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

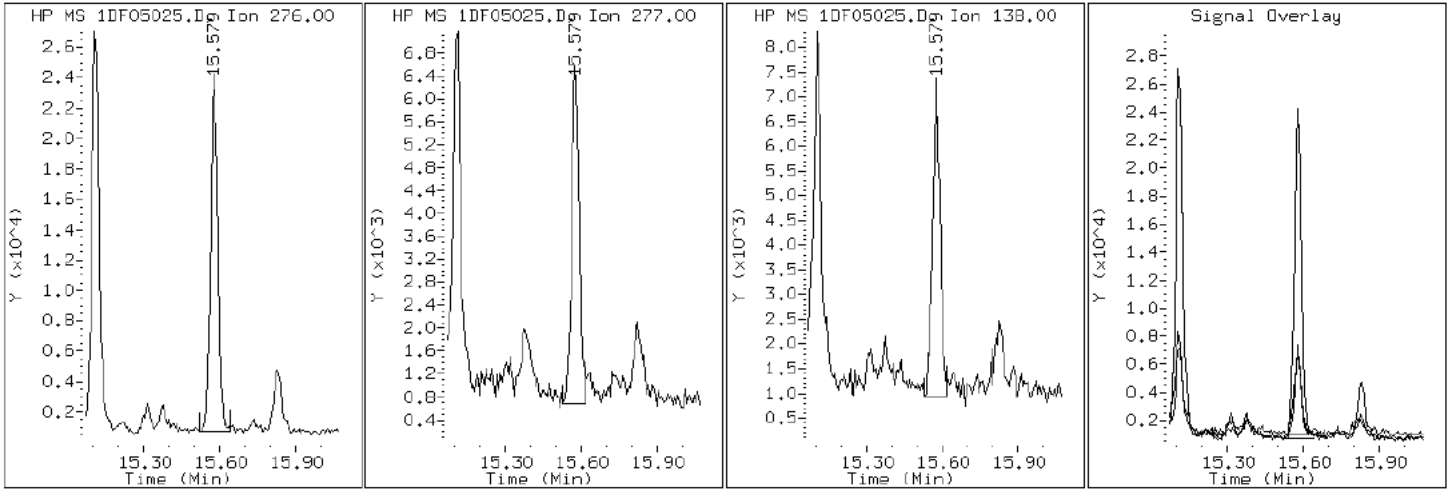
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

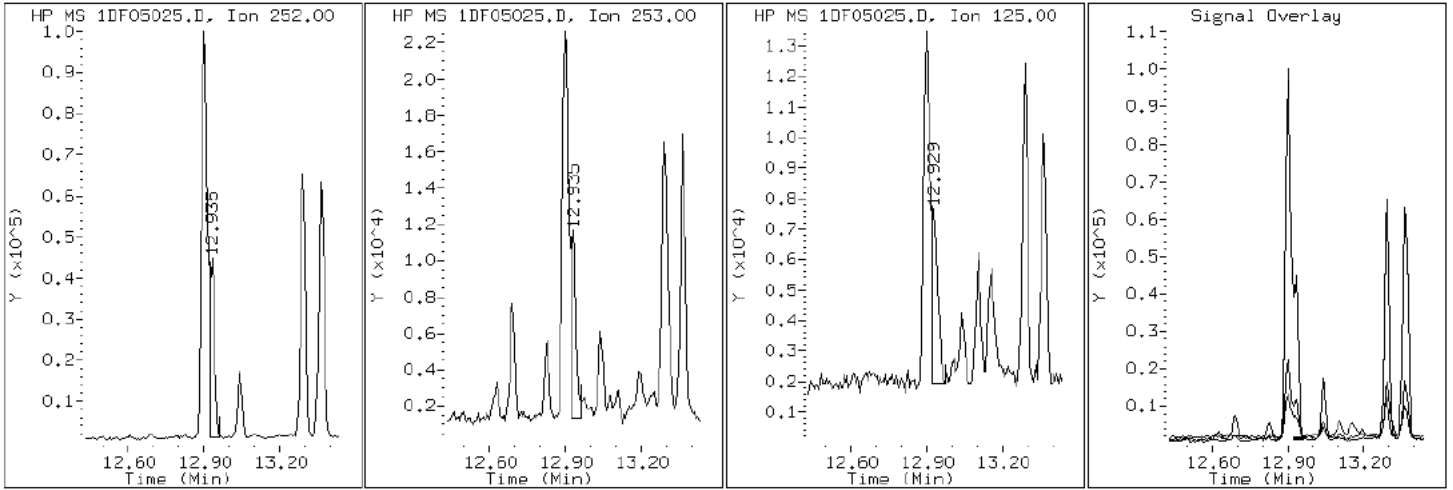
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

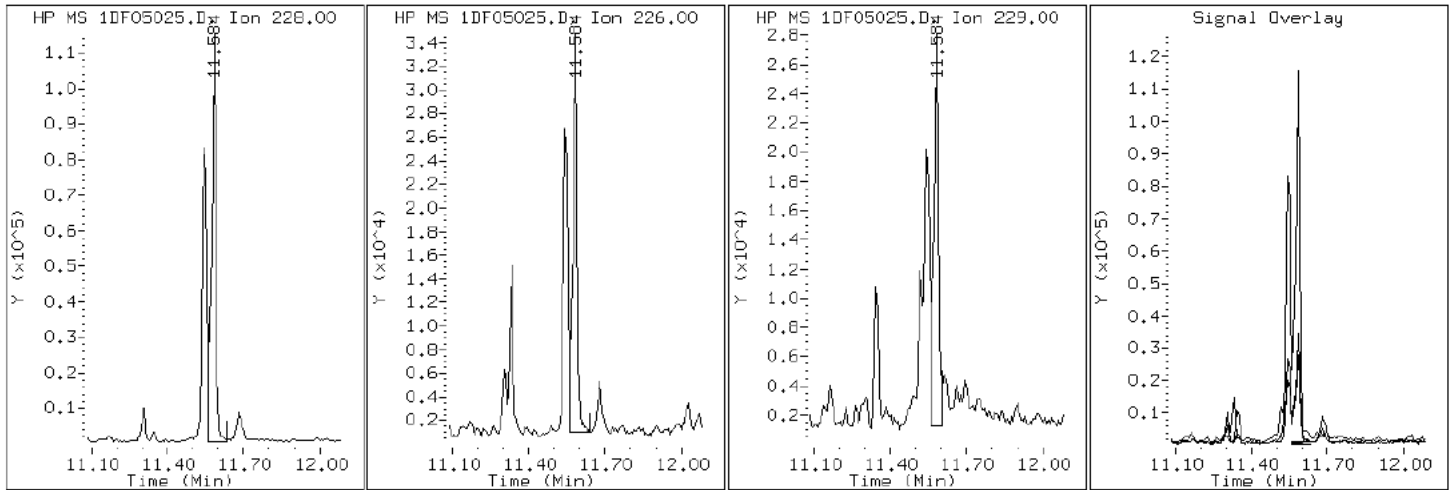
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

20 Chrysene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

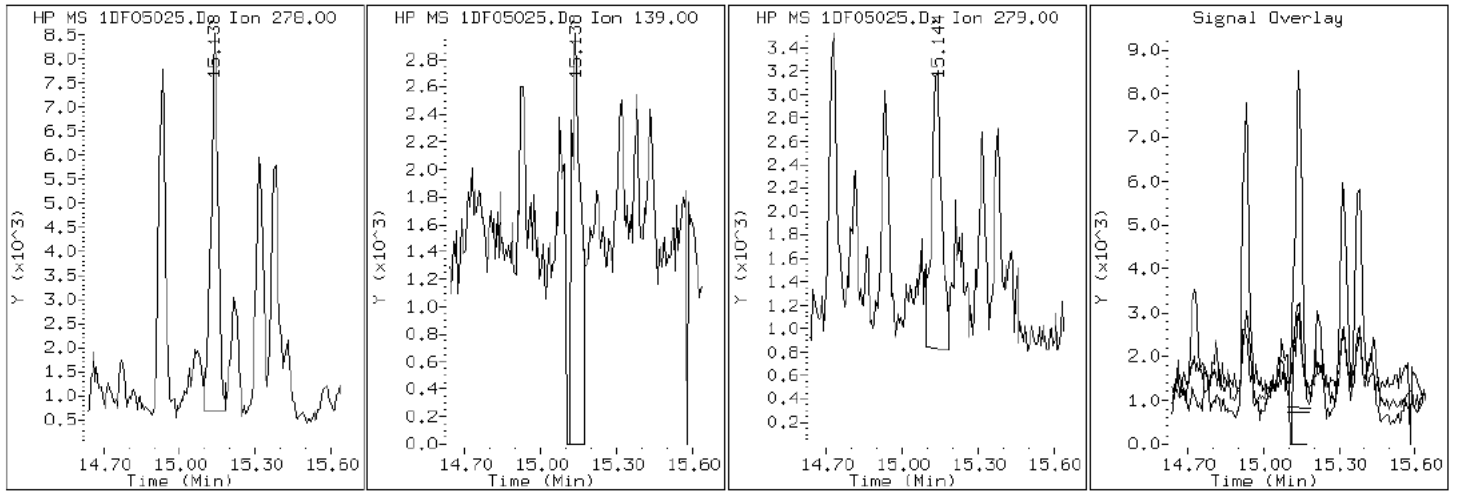
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

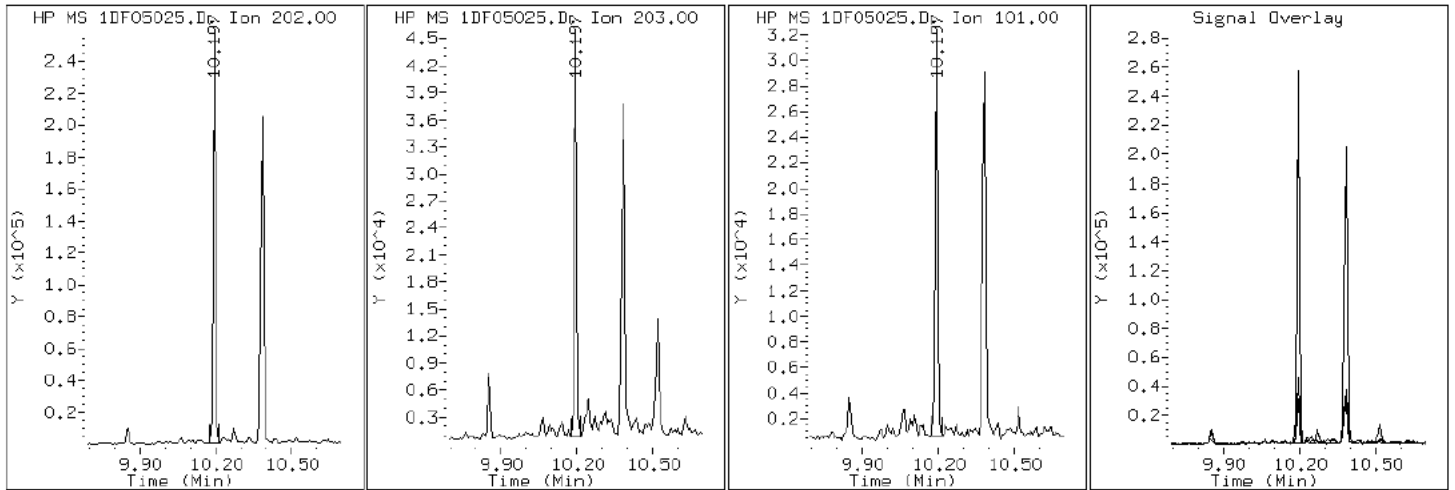
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

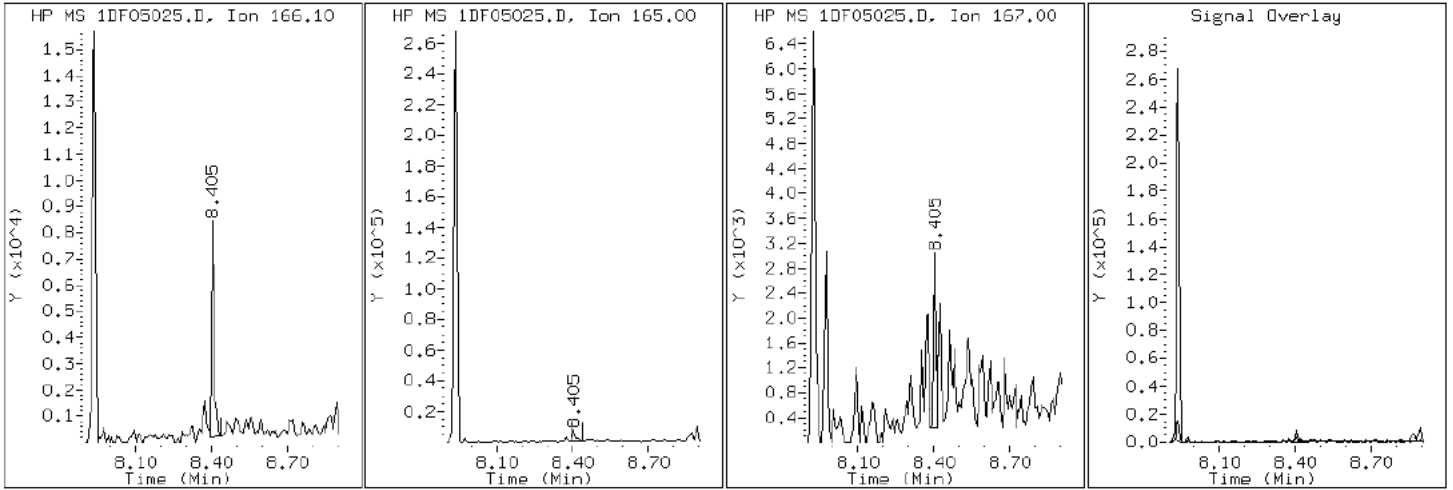
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

10 Fluorene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

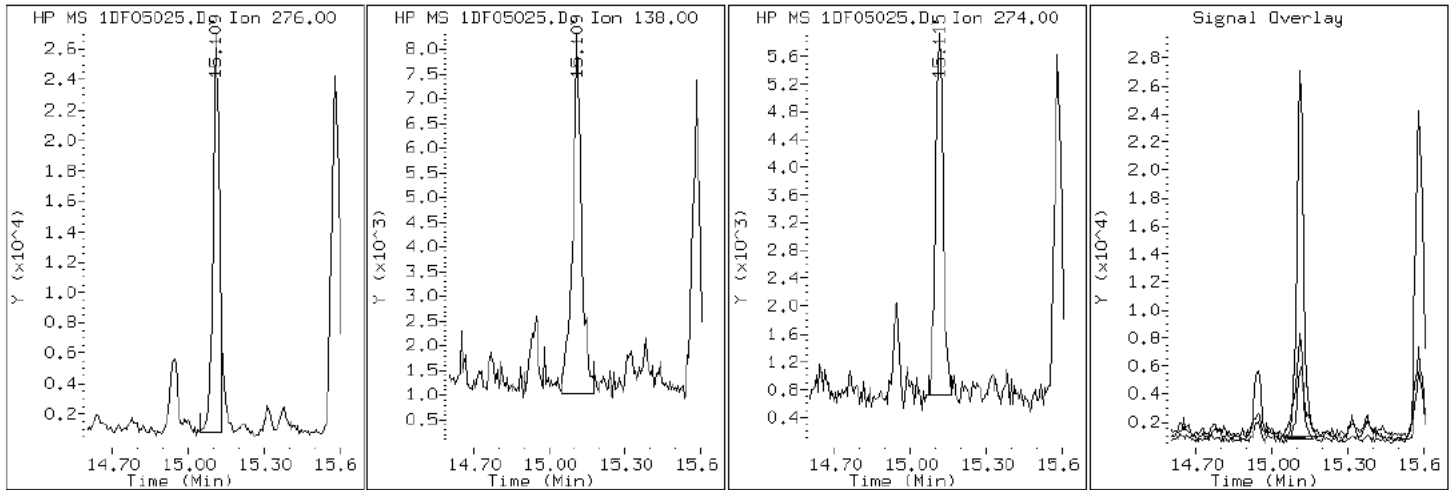
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

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



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

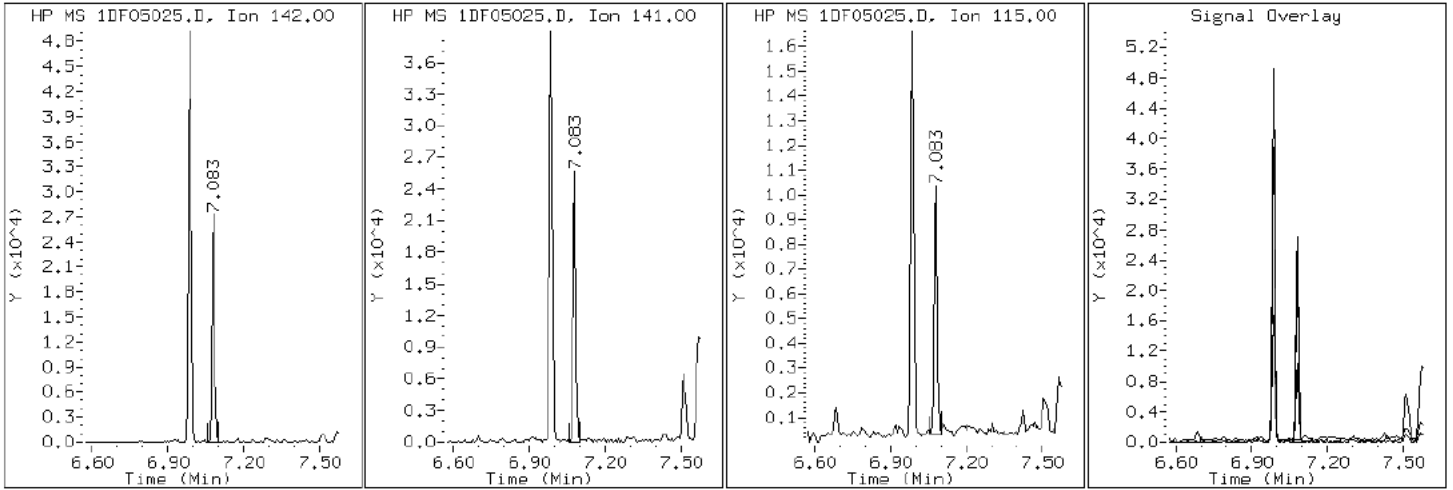
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

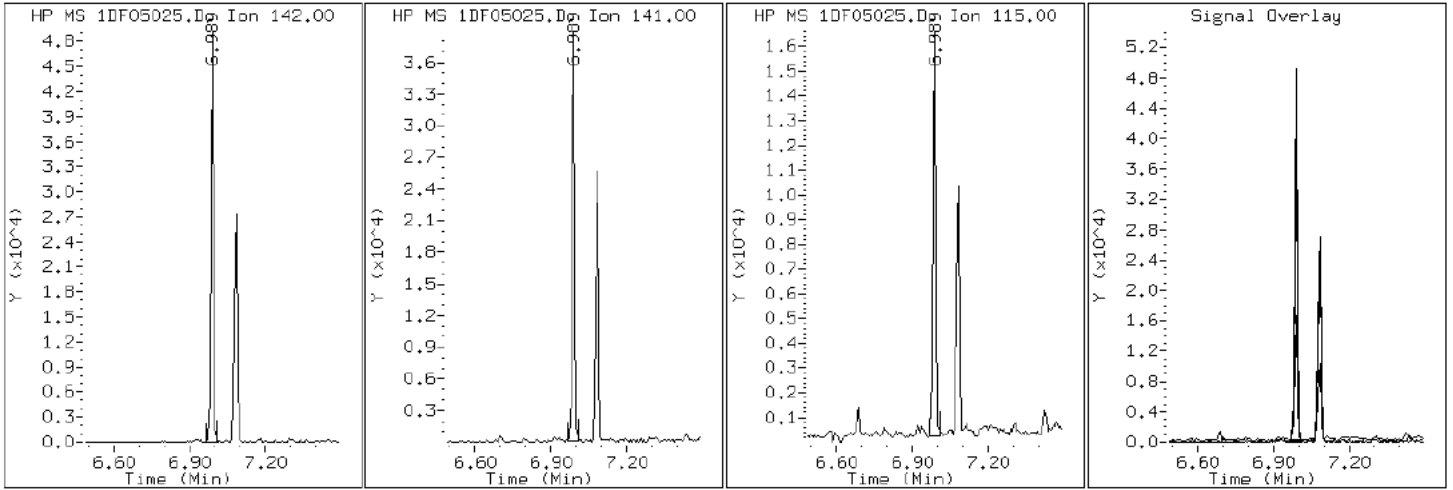
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

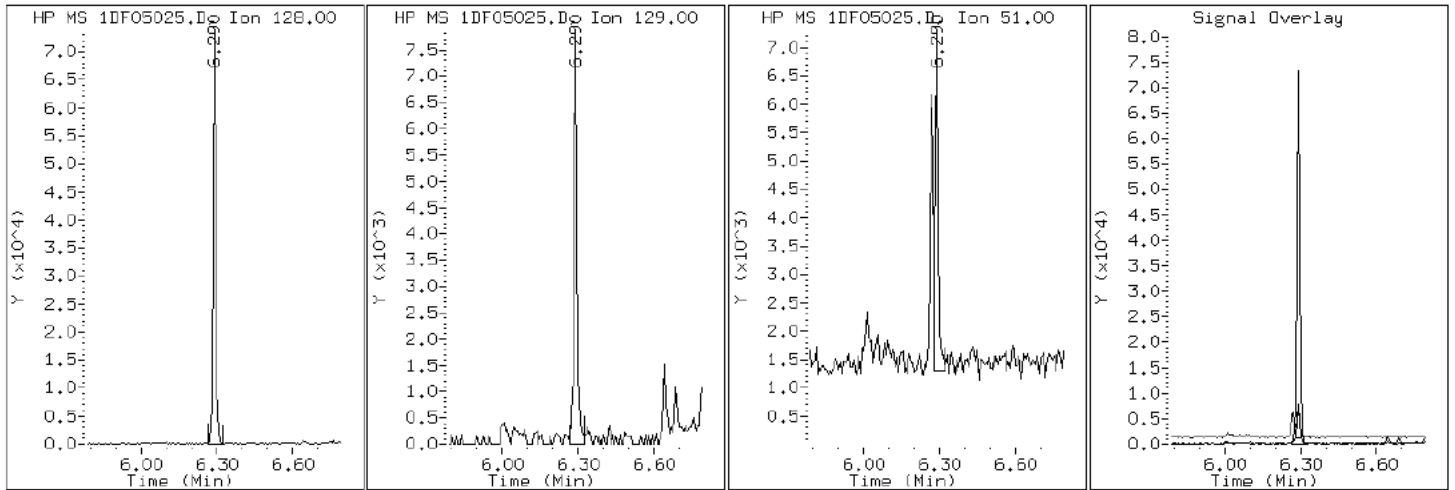
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

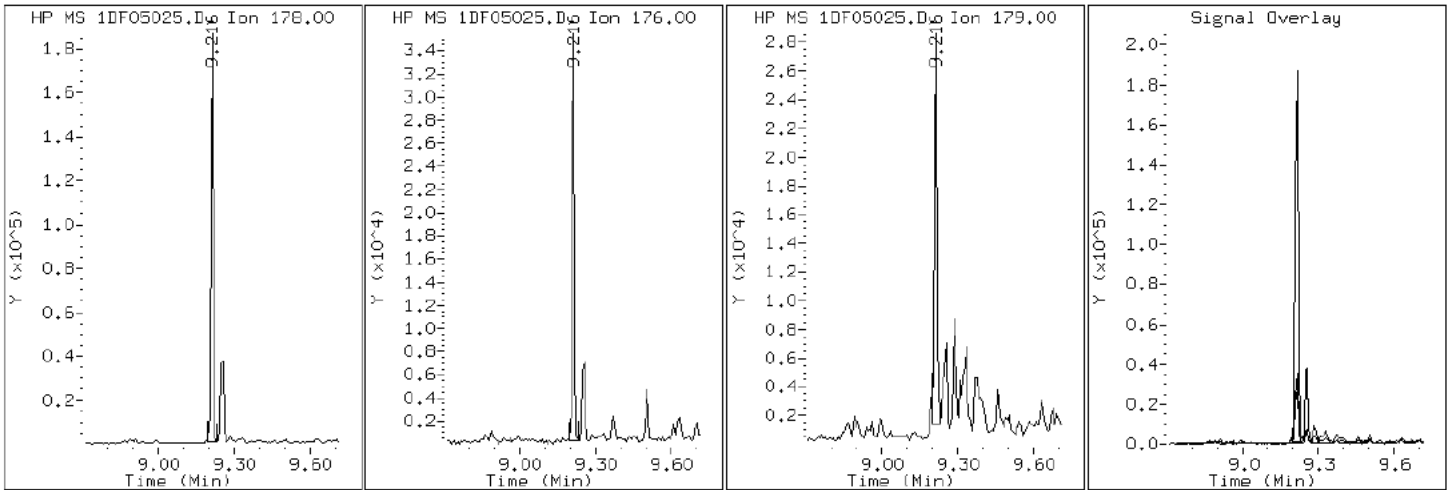
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05025.D

Date: 05-JUN-2013 20:11

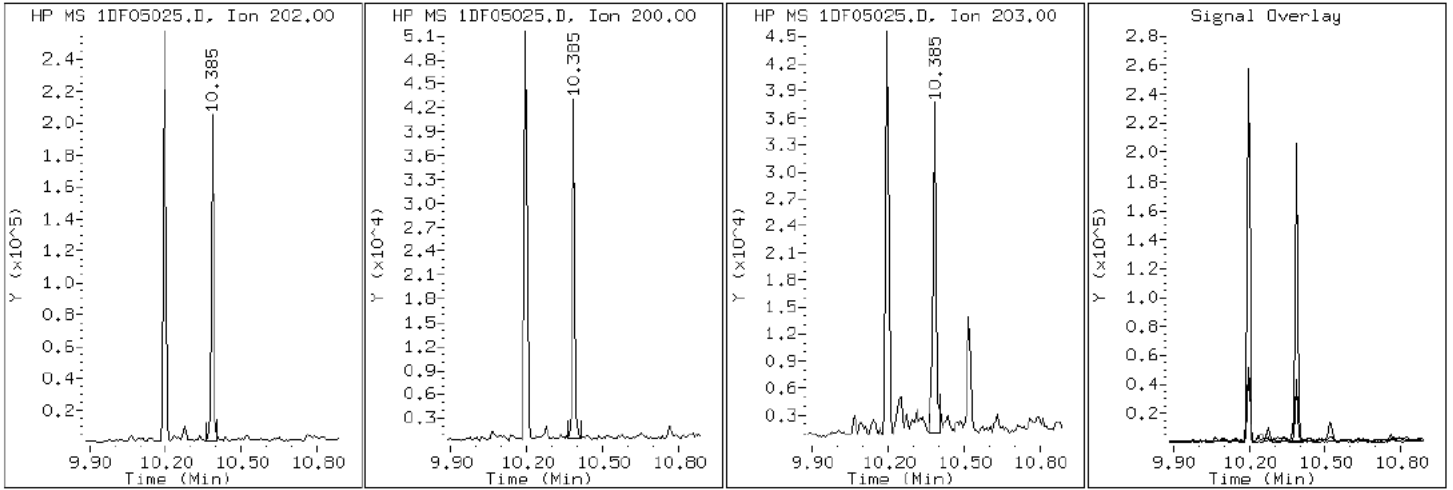
Client ID: HP0036C-CS-SP

Instrument: BSMSD.i

Sample Info: 680-90686-a-17-a

Operator: SCC

17 Pyrene

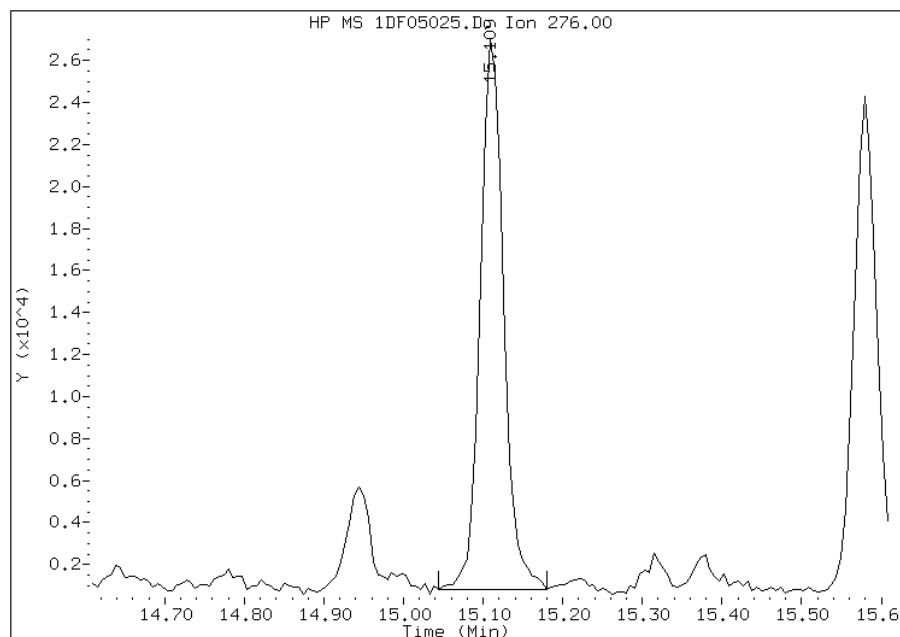


Manual Integration Report

Data File: 1DF05025.D
Inj. Date and Time: 05-JUN-2013 20:11
Instrument ID: BSMSD.i
Client ID: HP0036C-CS-SP
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

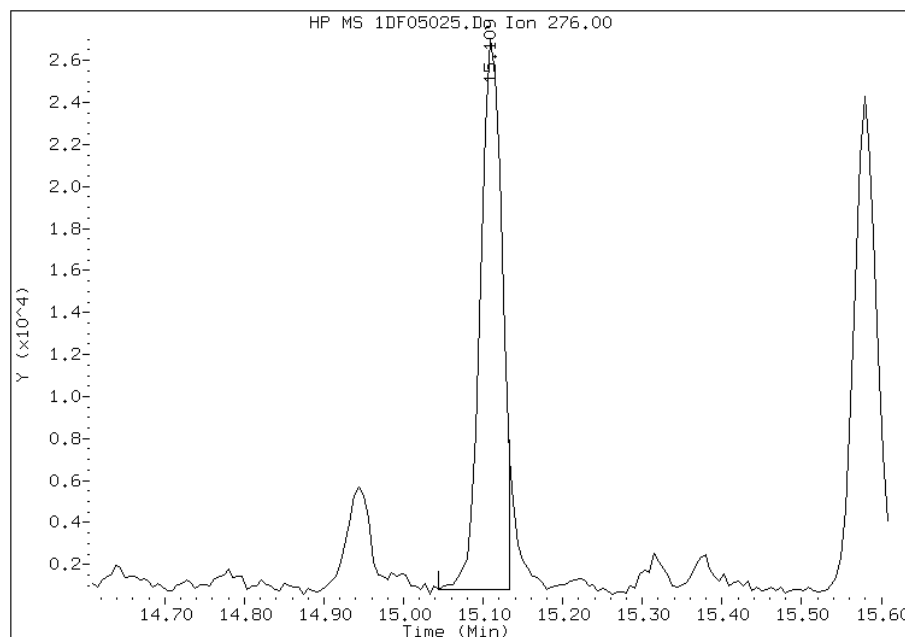
Processing Integration Results

RT: 15.11
Response: 52976
Amount: 1
Conc: 314



Manual Integration Results

RT: 15.11
Response: 49372
Amount: 1
Conc: 297



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0990A-CS Lab Sample ID: 680-90686-18
 Matrix: Solid Lab File ID: 1DF05026.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 12:35
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.15(g) Date Analyzed: 06/05/2013 20:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 12.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	J	450	91
208-96-8	Acenaphthylene	85	J	180	23
120-12-7	Anthracene	330		38	19
56-55-3	Benzo[a]anthracene	1500		36	18
50-32-8	Benzo[a]pyrene	1300		47	24
205-99-2	Benzo[b]fluoranthene	2200		55	28
191-24-2	Benzo[g,h,i]perylene	580		91	20
207-08-9	Benzo[k]fluoranthene	790		36	16
218-01-9	Chrysene	1600		41	20
53-70-3	Dibenz(a,h)anthracene	230		91	19
206-44-0	Fluoranthene	3100		91	18
86-73-7	Fluorene	75	J	91	19
193-39-5	Indeno[1,2,3-cd]pyrene	630		91	32
90-12-0	1-Methylnaphthalene	100	J	180	20
91-57-6	2-Methylnaphthalene	140	J	180	32
91-20-3	Naphthalene	110	J	180	20
85-01-8	Phenanthrene	1700		36	18
129-00-0	Pyrene	2300		91	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05026.D
 Lab Smp Id: 680-90686-A-18-A Client Smp ID: CV0990A-CS
 Inj Date : 05-JUN-2013 20:33
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-18-a
 Misc Info : 680-90686-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 26
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	12.641	% 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		6.271	6.265	(1.000)	2835469	40.0000	
* 7 Acenaphthene-d10	164		7.940	7.934	(1.000)	1520960	40.0000	
* 11 Phenanthrene-d10	188		9.197	9.191	(1.000)	2428941	40.0000	
\$ 15 o-Terphenyl	230		9.503	9.503	(1.033)	83430	2.34455	710
* 19 Chrysene-d12	240		11.559	11.553	(1.000)	2563296	40.0000	
* 24 Perylene-d12	264		13.475	13.457	(1.000)	2714513	40.0000	
2 Naphthalene	128		6.289	6.289	(1.003)	24417	0.34919	100
3 2-Methylnaphthalene	142		6.988	6.988	(1.114)	20801	0.46721	140
4 1-Methylnaphthalene	142		7.082	7.076	(1.129)	15773	0.34413	100
5 1,1'-Biphenyl	154		7.423	7.423	(0.935)	5102	0.09929	30
6 Acenaphthylene	152		7.811	7.811	(0.984)	17818	0.28255	85
8 Acenaphthene	154		7.964	7.963	(1.003)	17550	0.43870	130
9 Dibenzofuran	168		8.110	8.110	(1.021)	14971	0.27141	82
10 Fluorene	166		8.404	8.404	(1.058)	11219	0.24786	75

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.215	9.215	(1.002)	368664	5.60418	1700
13 Anthracene	178	9.256	9.256	(1.006)	69786	1.09334	330
16 Fluoranthene	202	10.196	10.196	(1.109)	699290	10.3908	3100
17 Pyrene	202	10.384	10.384	(0.898)	579504	7.72186	2300
18 Benzo(a)anthracene	228	11.548	11.542	(0.999)	373033	4.90361	1500
20 Chrysene	228	11.589	11.583	(1.003)	369421	5.39282	1600
21 Benzo(b)fluoranthene	252	12.905	12.893	(0.958)	490071	7.20644	2200
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	185711	2.60777	790
23 Benzo(a)pyrene	252	13.369	13.363	(0.992)	281534	4.28024	1300
25 Indeno(1,2,3-cd)pyrene	276	15.108	15.102	(1.121)	137739	2.10018	630(M)
26 Dibenzo(a,h)anthracene	278	15.143	15.137	(1.124)	44500	0.75789	230
27 Benzo(g,h,i)perylene	276	15.584	15.572	(1.157)	118087	1.91585	580

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05026.D

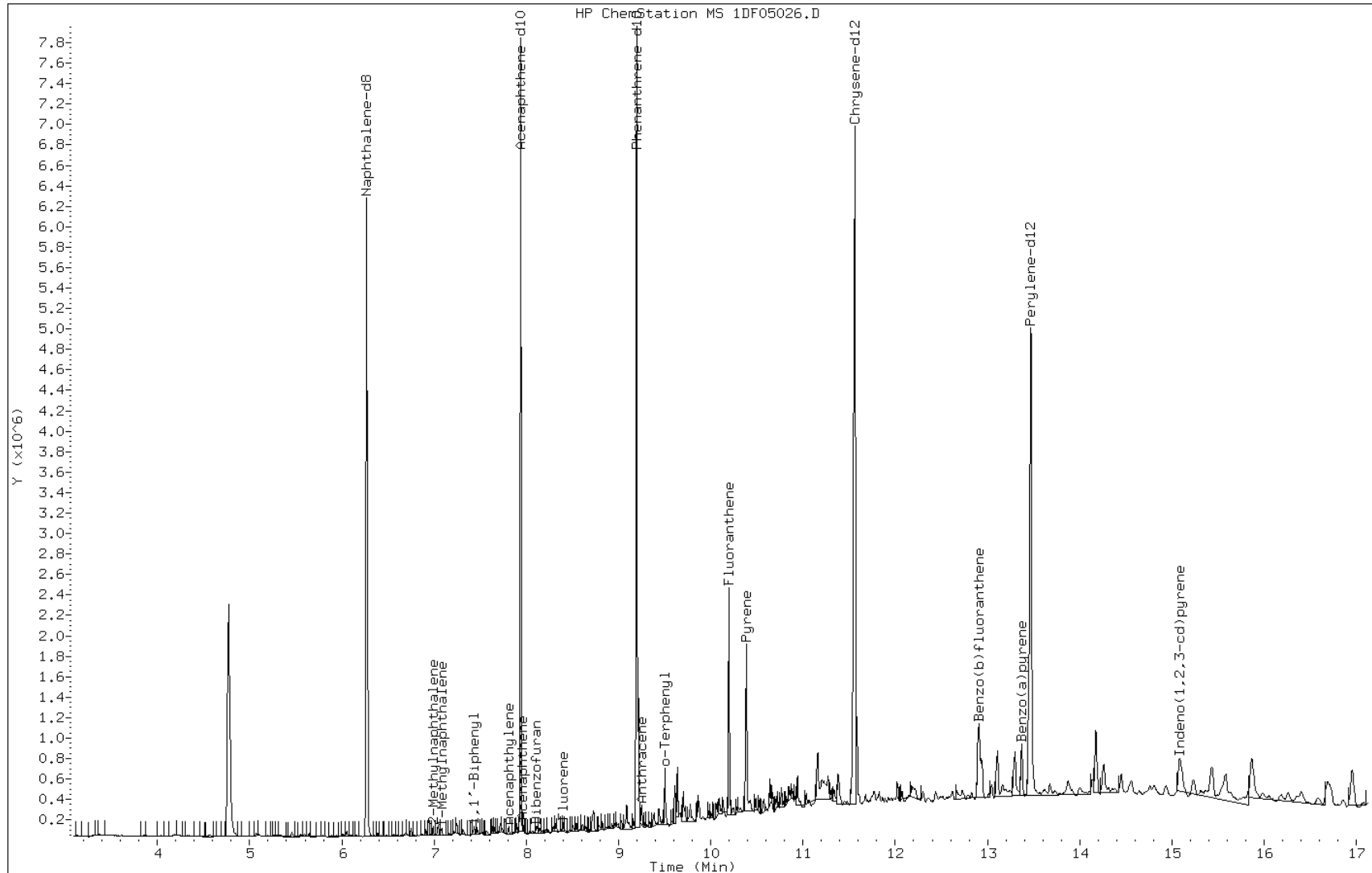
Date: 05-JUN-2013 20:33

Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

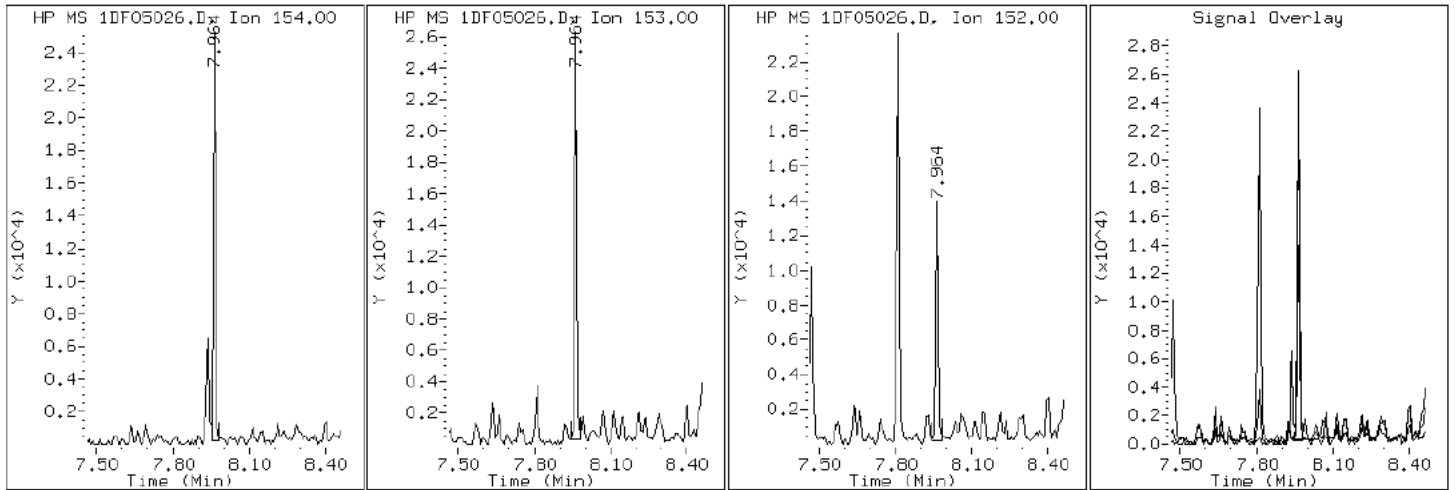
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

8 Acenaphthene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

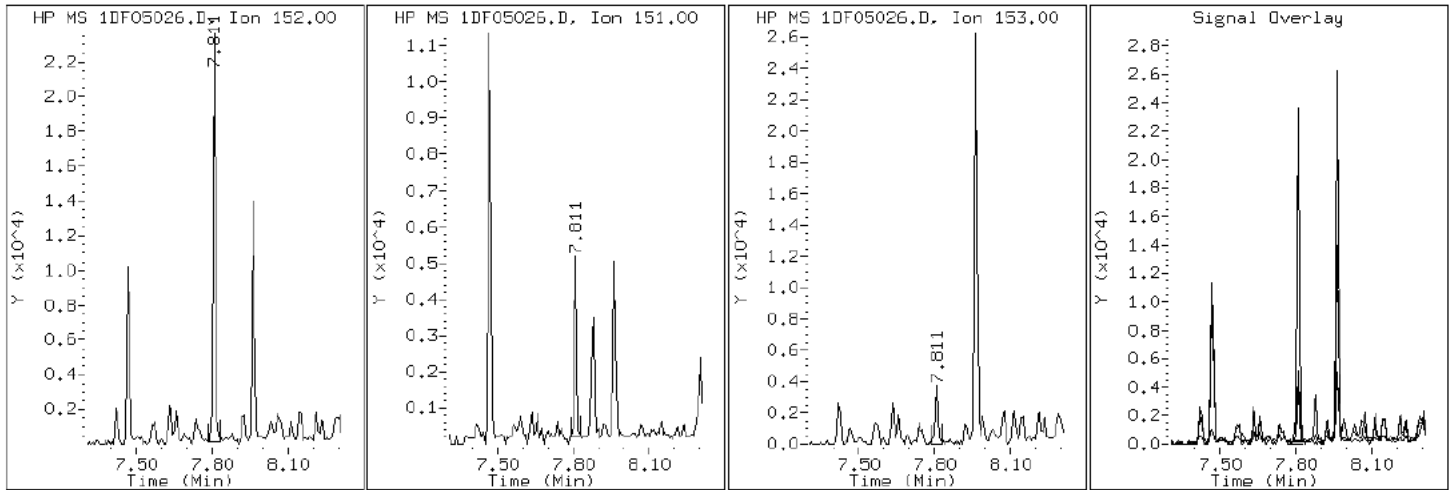
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

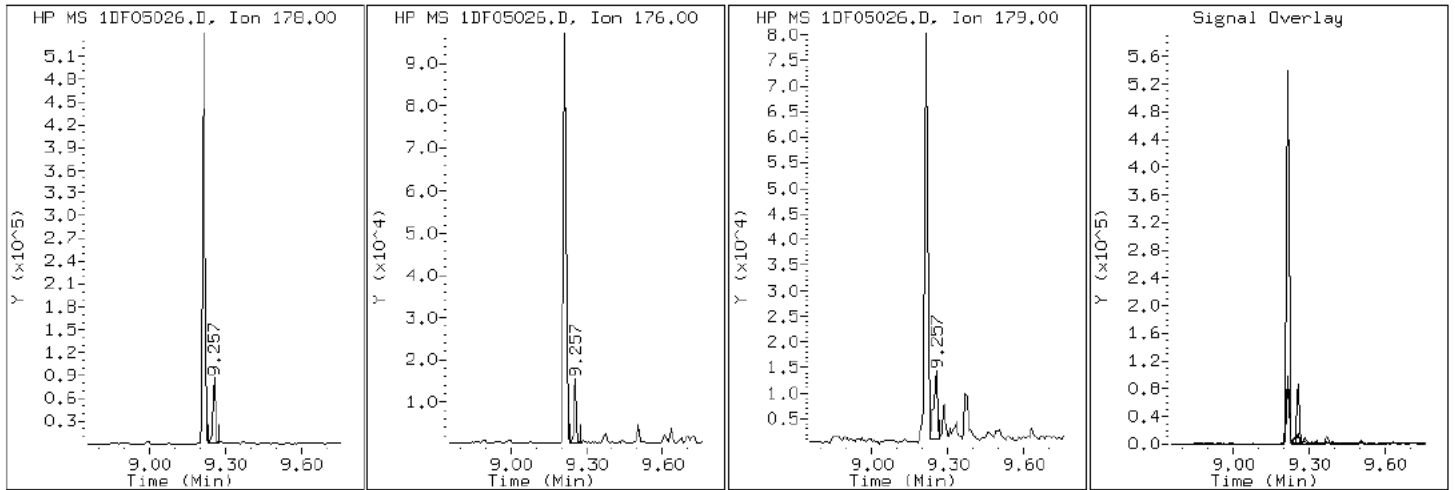
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

13 Anthracene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

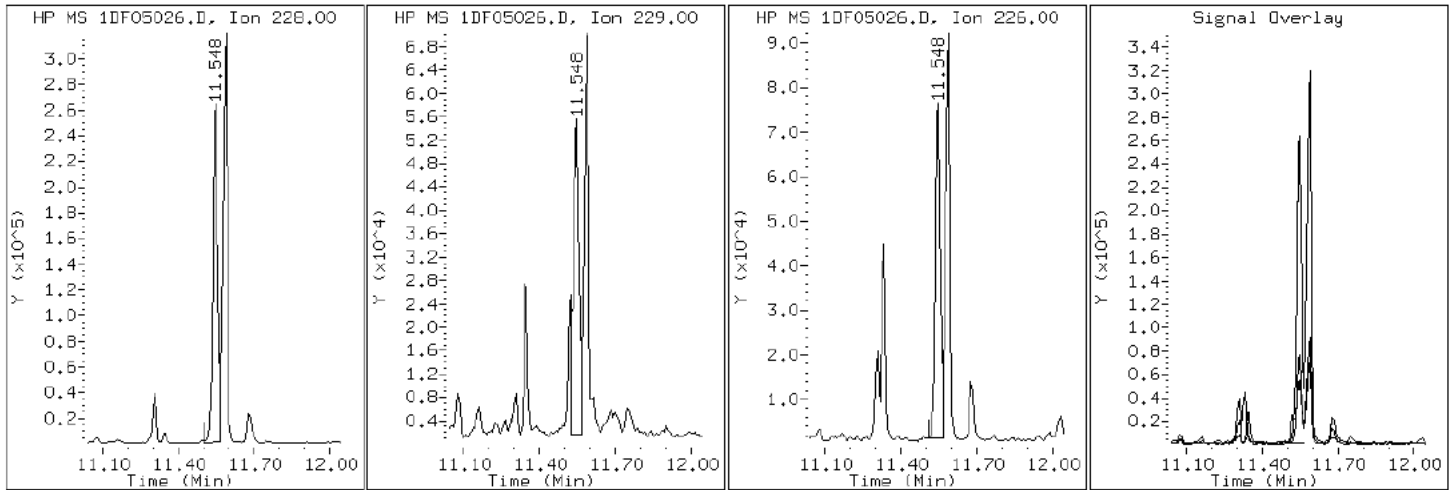
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

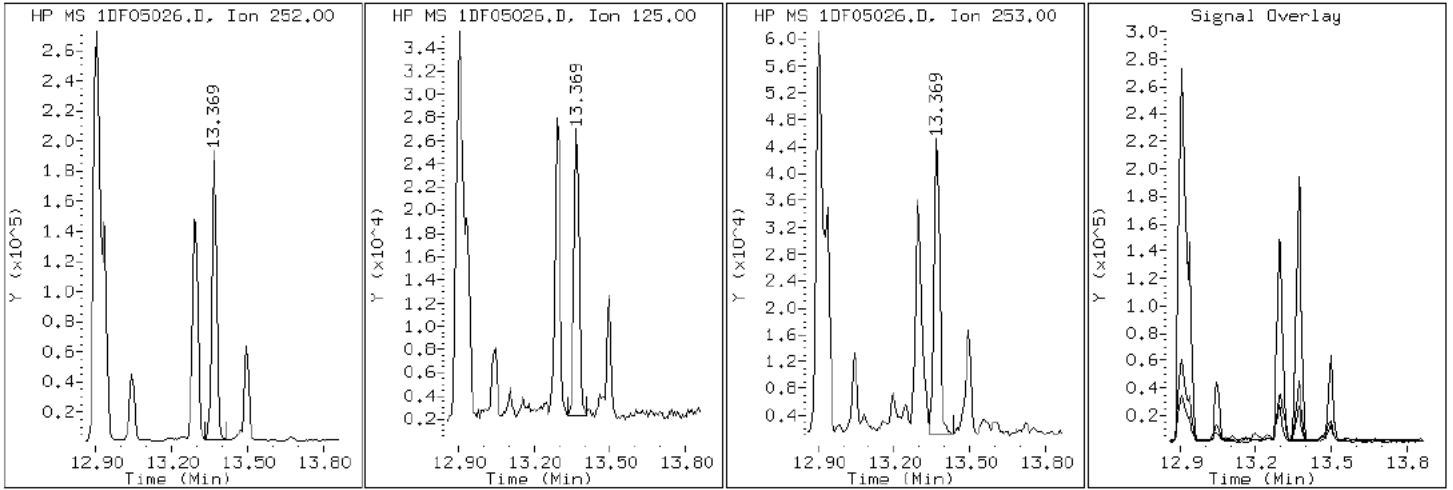
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

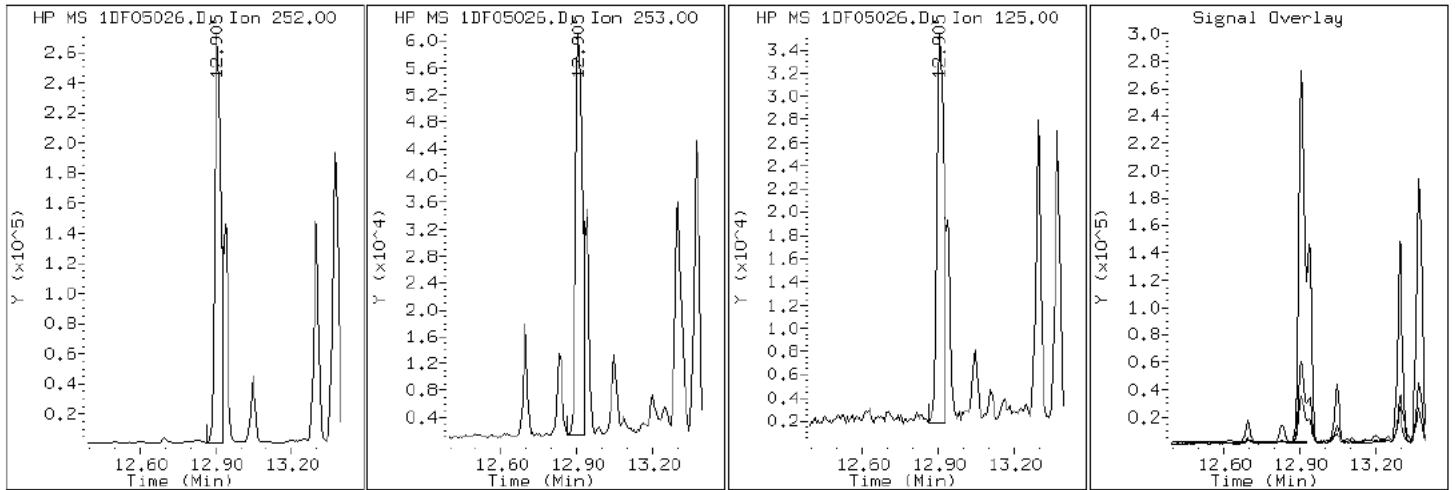
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

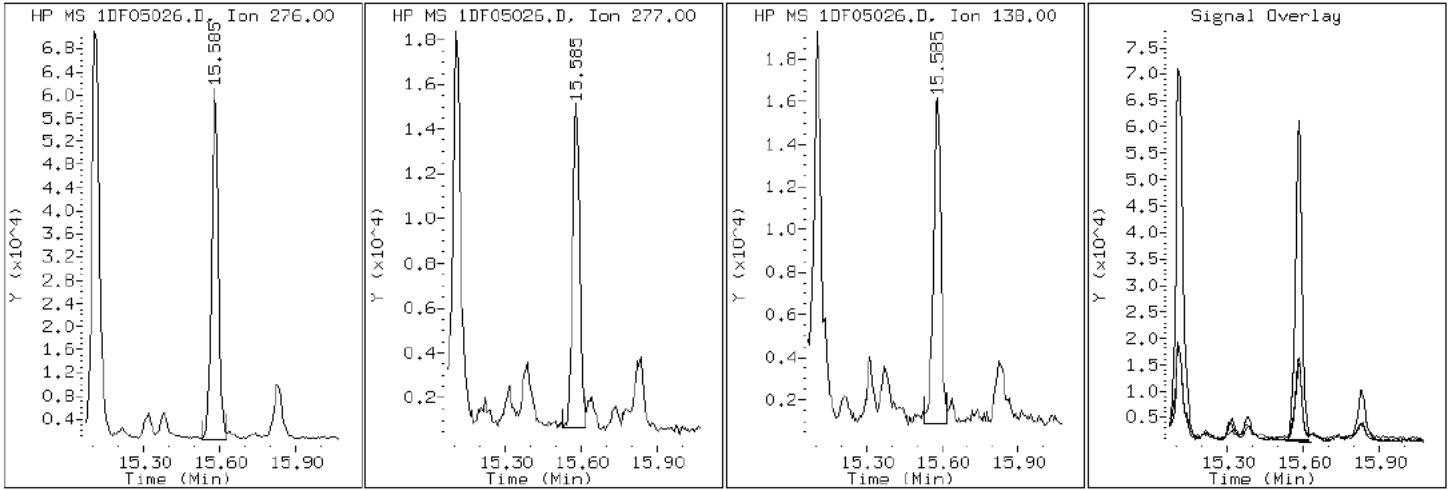
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

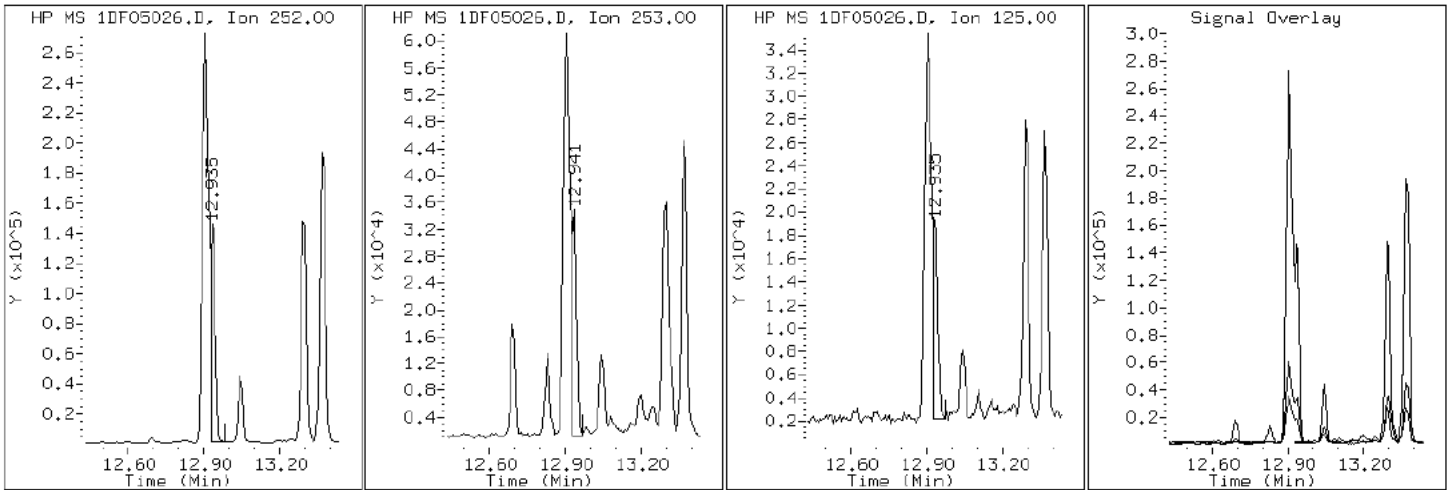
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

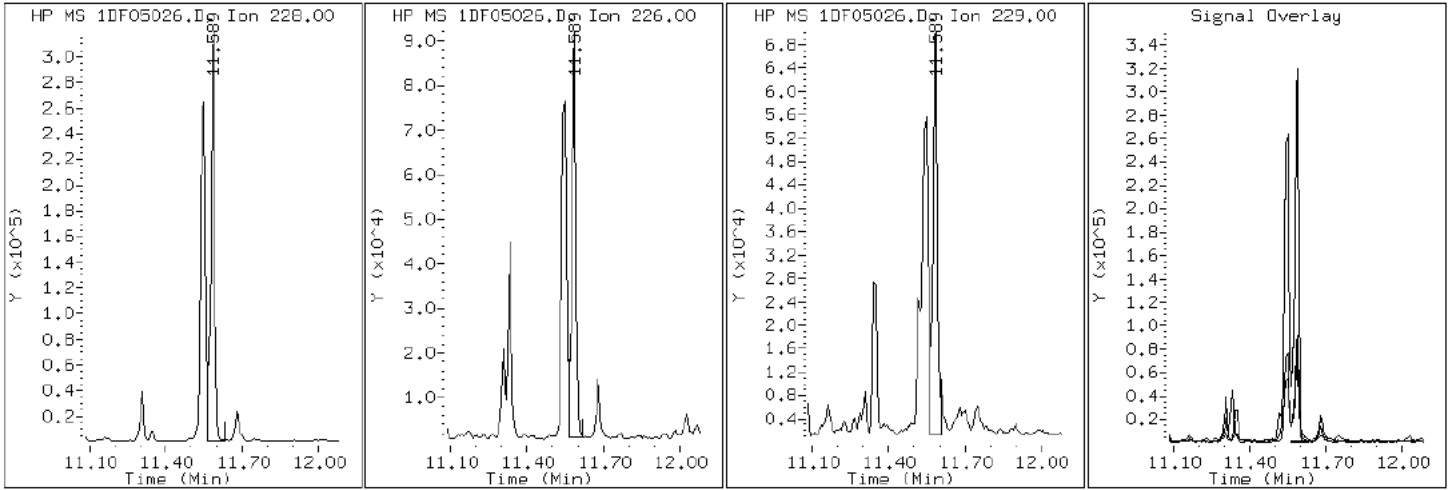
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

20 Chrysene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

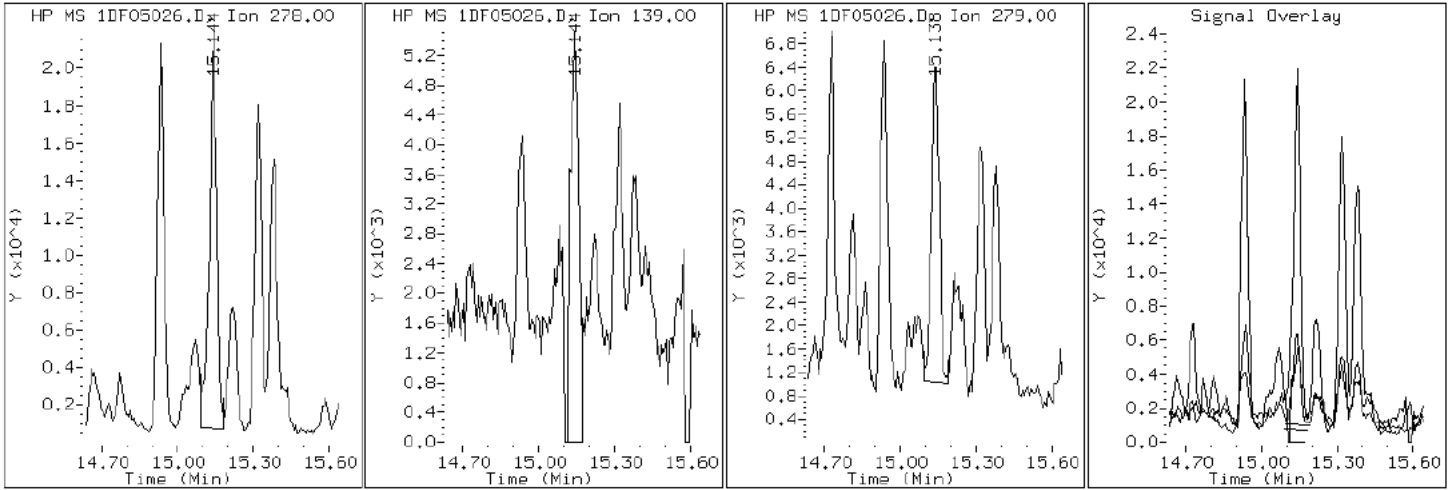
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

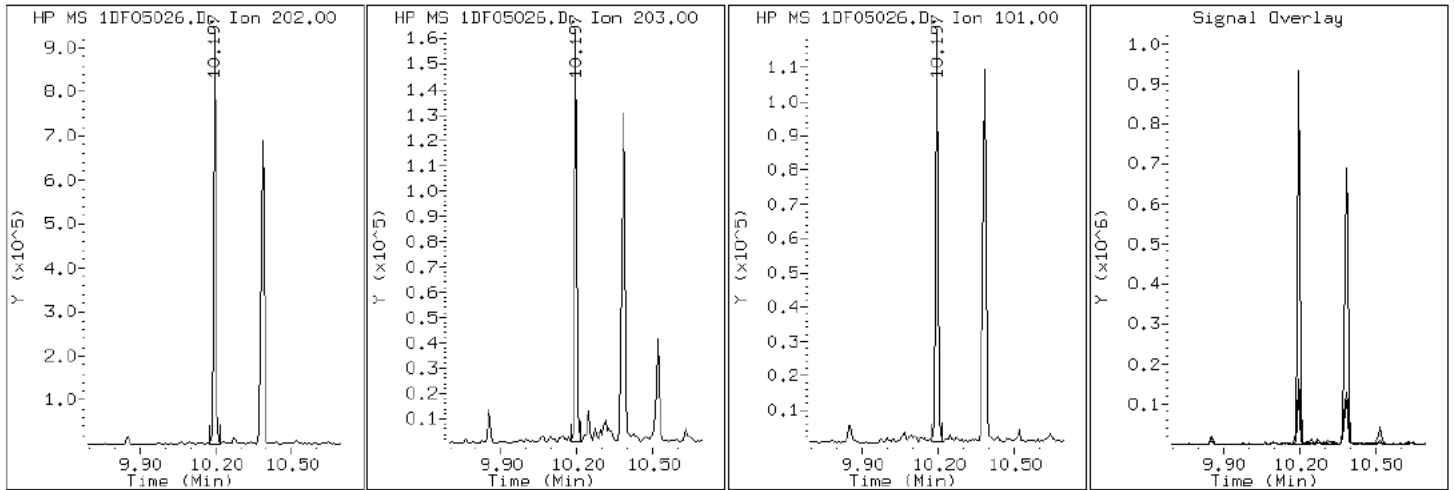
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

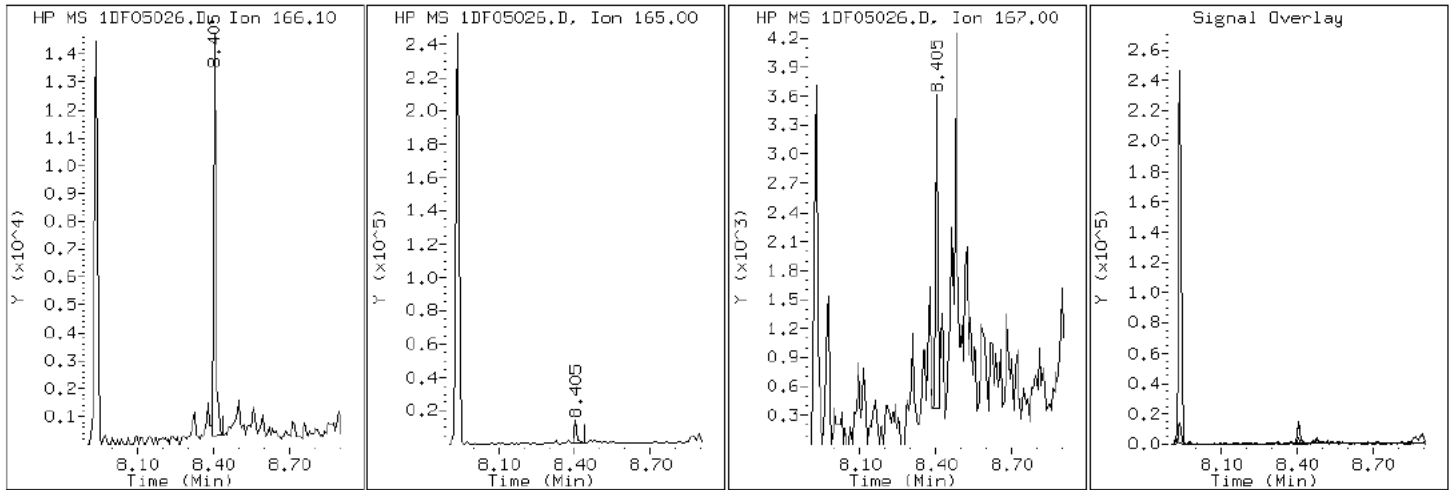
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

10 Fluorene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

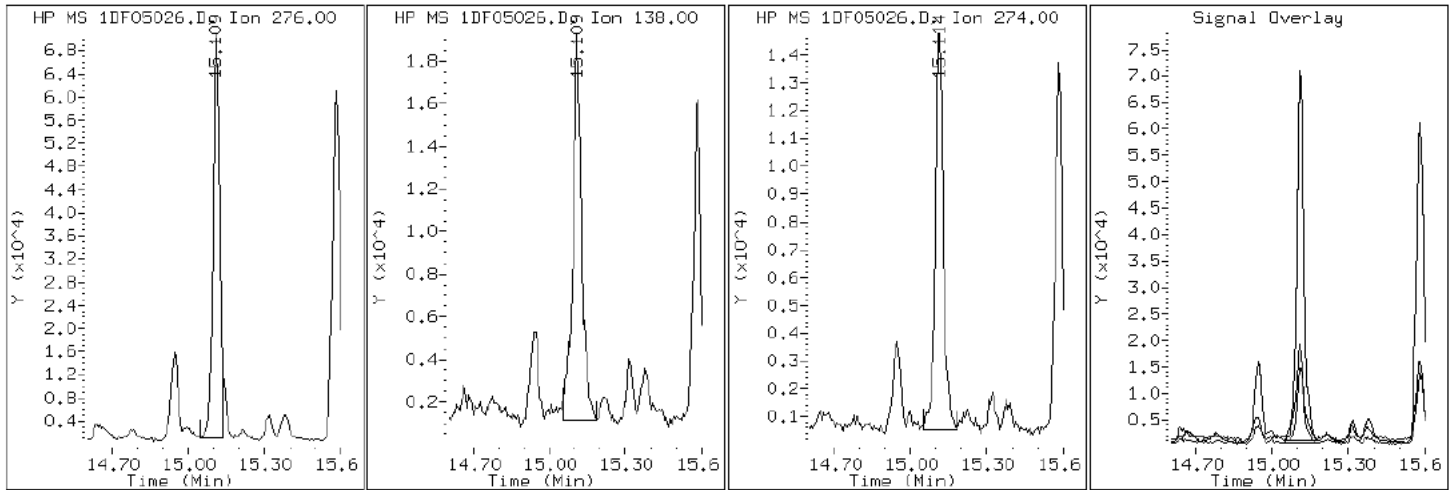
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

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



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

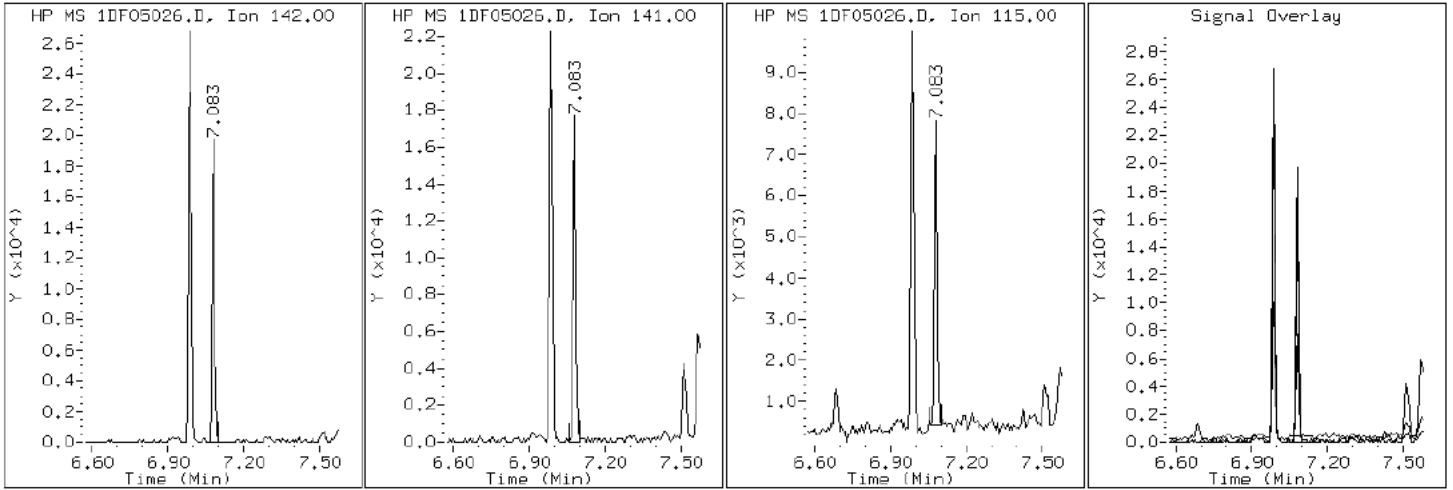
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

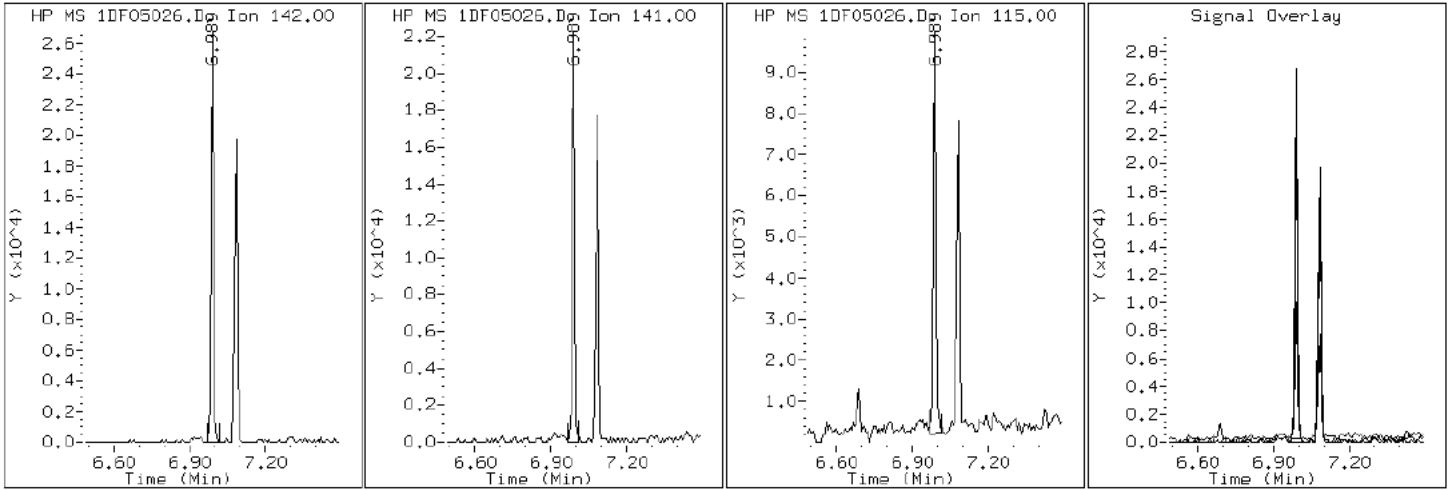
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

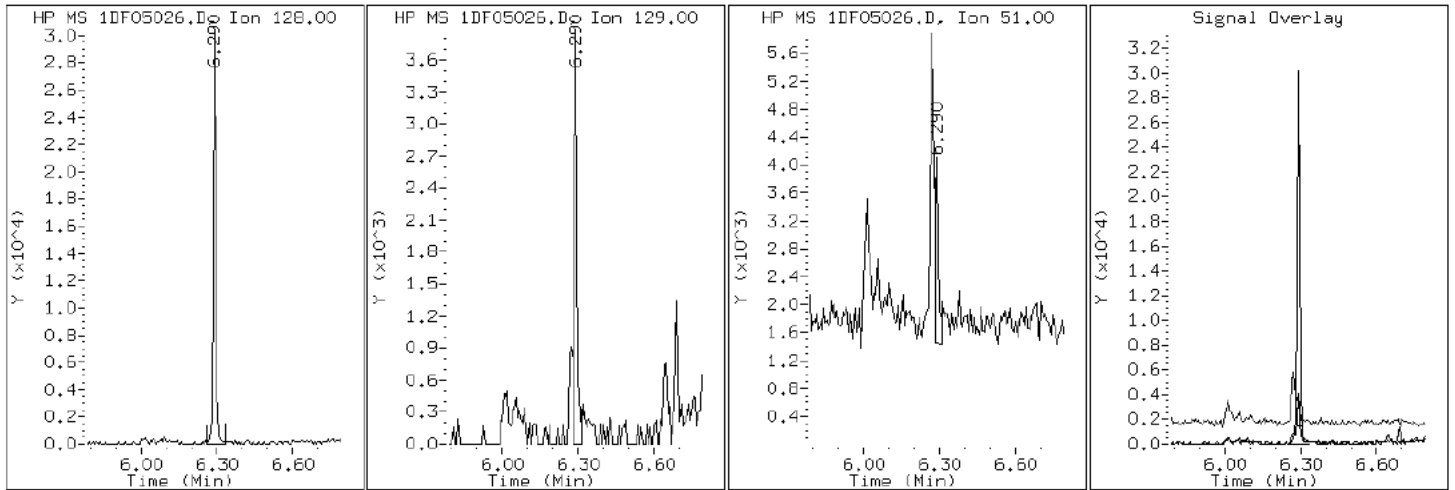
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

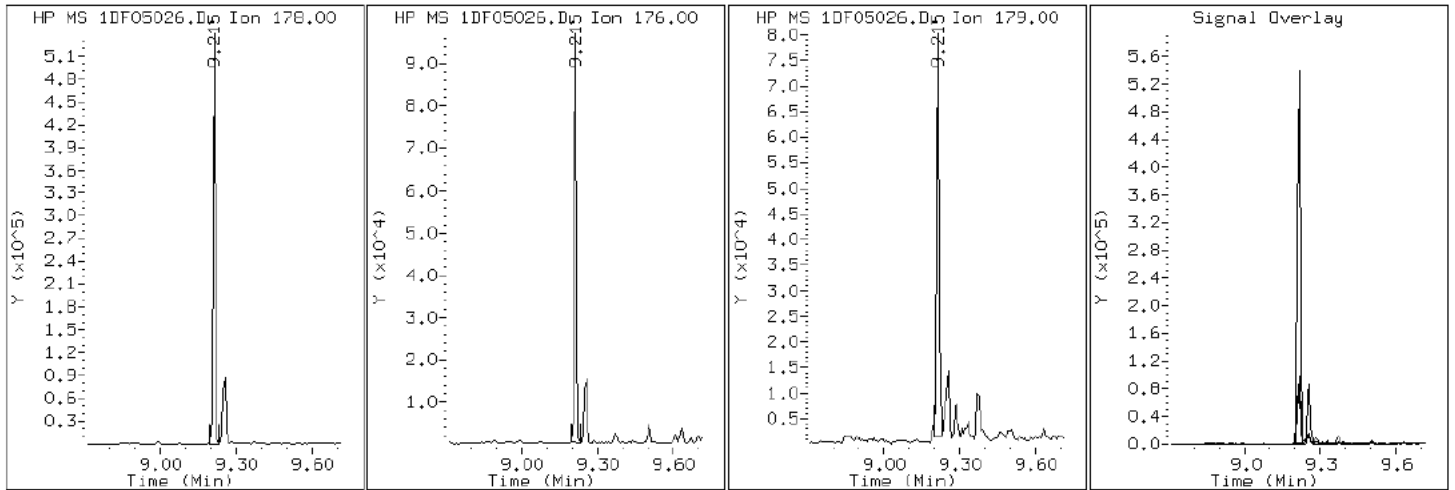
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05026.D

Date: 05-JUN-2013 20:33

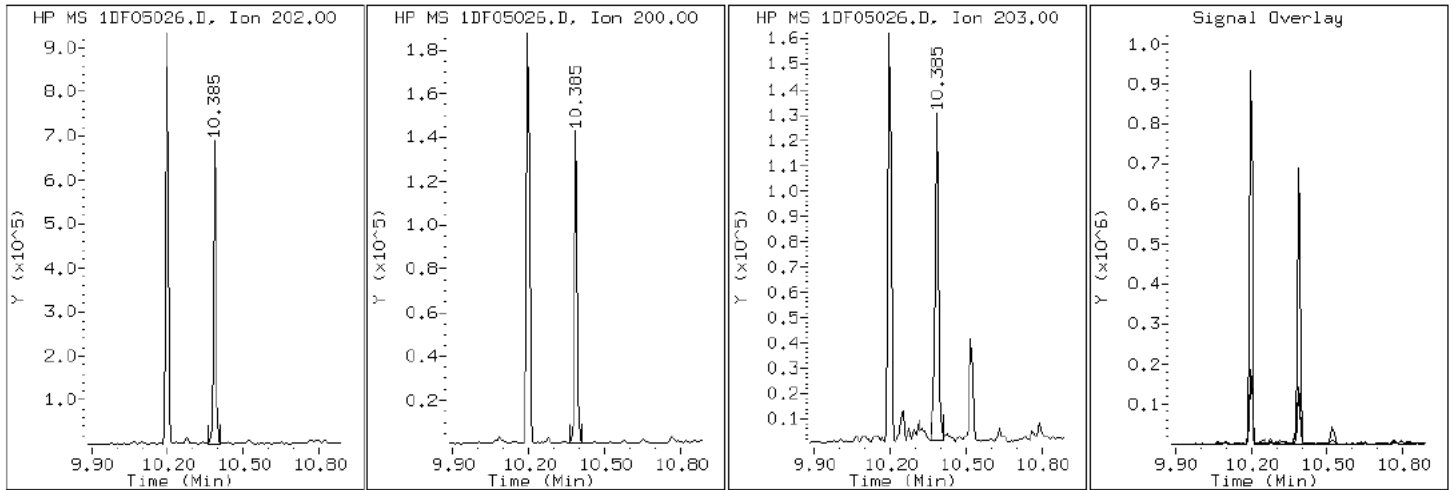
Client ID: CV0990A-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-18-a

Operator: SCC

17 Pyrene

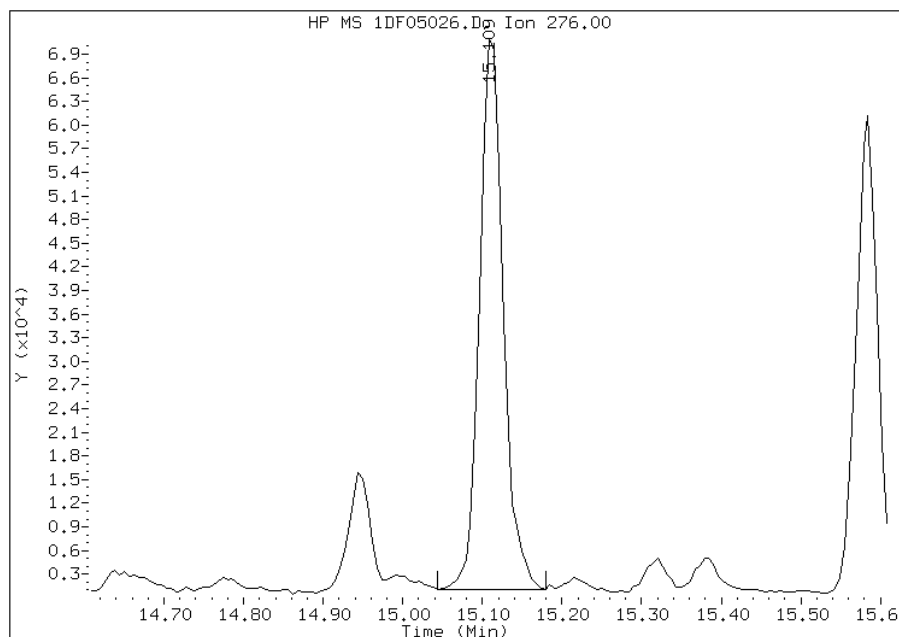


Manual Integration Report

Data File: 1DF05026.D
Inj. Date and Time: 05-JUN-2013 20:33
Instrument ID: BSMSD.i
Client ID: CV0990A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

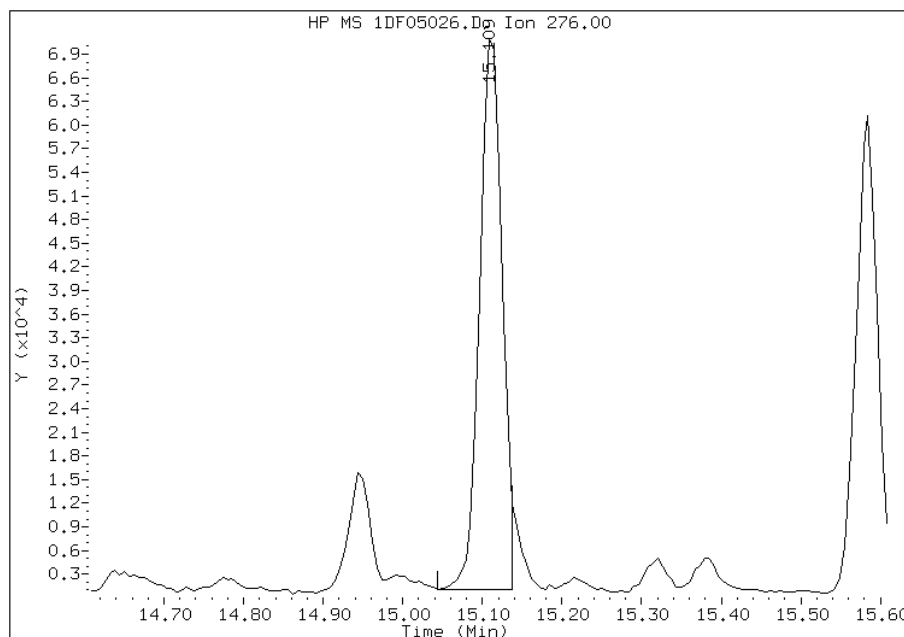
Processing Integration Results

RT: 15.11
Response: 144330
Amount: 2
Conc: 663



Manual Integration Results

RT: 15.11
Response: 137739
Amount: 2
Conc: 635



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0990B-CS Lab Sample ID: 680-90686-19
 Matrix: Solid Lab File ID: 1DF05027.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 12:45
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.33(g) Date Analyzed: 06/05/2013 20:56
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	71	J	210	27
120-12-7	Anthracene	200		45	22
56-55-3	Benzo[a]anthracene	830		43	21
50-32-8	Benzo[a]pyrene	810		55	28
205-99-2	Benzo[b]fluoranthene	1400		65	32
191-24-2	Benzo[g,h,i]perylene	470		110	23
207-08-9	Benzo[k]fluoranthene	440		43	19
218-01-9	Chrysene	1100		48	24
53-70-3	Dibenz(a,h)anthracene	180		110	22
206-44-0	Fluoranthene	1500		110	21
86-73-7	Fluorene	73	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	480		110	38
90-12-0	1-Methylnaphthalene	340		210	23
91-57-6	2-Methylnaphthalene	440		210	38
91-20-3	Naphthalene	230		210	23
85-01-8	Phenanthrene	1200		43	21
129-00-0	Pyrene	1200		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05027.D
 Lab Smp Id: 680-90686-A-19-A Client Smp ID: CV0990B-CS
 Inj Date : 05-JUN-2013 20:56
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-19-a
 Misc Info : 680-90686-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 27
 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	15.330	Weight Extracted
M	26.484	% 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	CONCENTRATIONS				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/Kg)
* 1 Naphthalene-d8	136	6.272	6.265	(1.000)	3098218	40.0000	
* 7 Acenaphthene-d10	164	7.935	7.934	(1.000)	1660017	40.0000	
* 11 Phenanthrene-d10	188	9.198	9.191	(1.000)	2624715	40.0000	
\$ 15 o-Terphenyl	230	9.504	9.503	(1.033)	85981	2.23602	790
* 19 Chrysene-d12	240	11.560	11.553	(1.000)	2638852	40.0000	
* 24 Perylene-d12	264	13.476	13.457	(1.000)	2775762	40.0000	
2 Naphthalene	128	6.290	6.289	(1.003)	50002	0.65445	230
3 2-Methylnaphthalene	142	6.989	6.988	(1.114)	60254	1.23859	440
4 1-Methylnaphthalene	142	7.083	7.076	(1.129)	47404	0.94653	340
5 1,1'-Biphenyl	154	7.424	7.423	(0.936)	17234	0.30729	110
6 Acenaphthylene	152	7.812	7.811	(0.984)	13673	0.19866	70
8 Acenaphthene	154	7.965	7.963	(1.004)	8706	0.19940	71
9 Dibenzofuran	168	8.111	8.110	(1.022)	28503	0.47345	170
10 Fluorene	166	8.405	8.404	(1.059)	10157	0.20560	73

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.216	9.215	(1.002)	236267	3.32368	1200
13 Anthracene	178	9.257	9.256	(1.006)	39524	0.57304	200
16 Fluoranthene	202	10.197	10.196	(1.109)	316375	4.35038	1500
17 Pyrene	202	10.385	10.384	(0.898)	268991	3.48167	1200
18 Benzo(a)anthracene	228	11.543	11.542	(0.998)	182239	2.32699	820
20 Chrysene	228	11.584	11.583	(1.002)	214358	3.03961	1100
21 Benzo(b)fluoranthene	252	12.906	12.893	(0.958)	282803	4.06682	1400
22 Benzo(k)fluoranthene	252	12.935	12.934	(0.960)	90465	1.24229	440
23 Benzo(a)pyrene	252	13.370	13.363	(0.992)	149863	2.27534	810
25 Indeno(1,2,3-cd)pyrene	276	15.115	15.102	(1.122)	86156	1.34216	480(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.137	(1.124)	28193	0.49694	180
27 Benzo(g,h,i)perylene	276	15.585	15.572	(1.157)	83190	1.31990	470

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05027.D

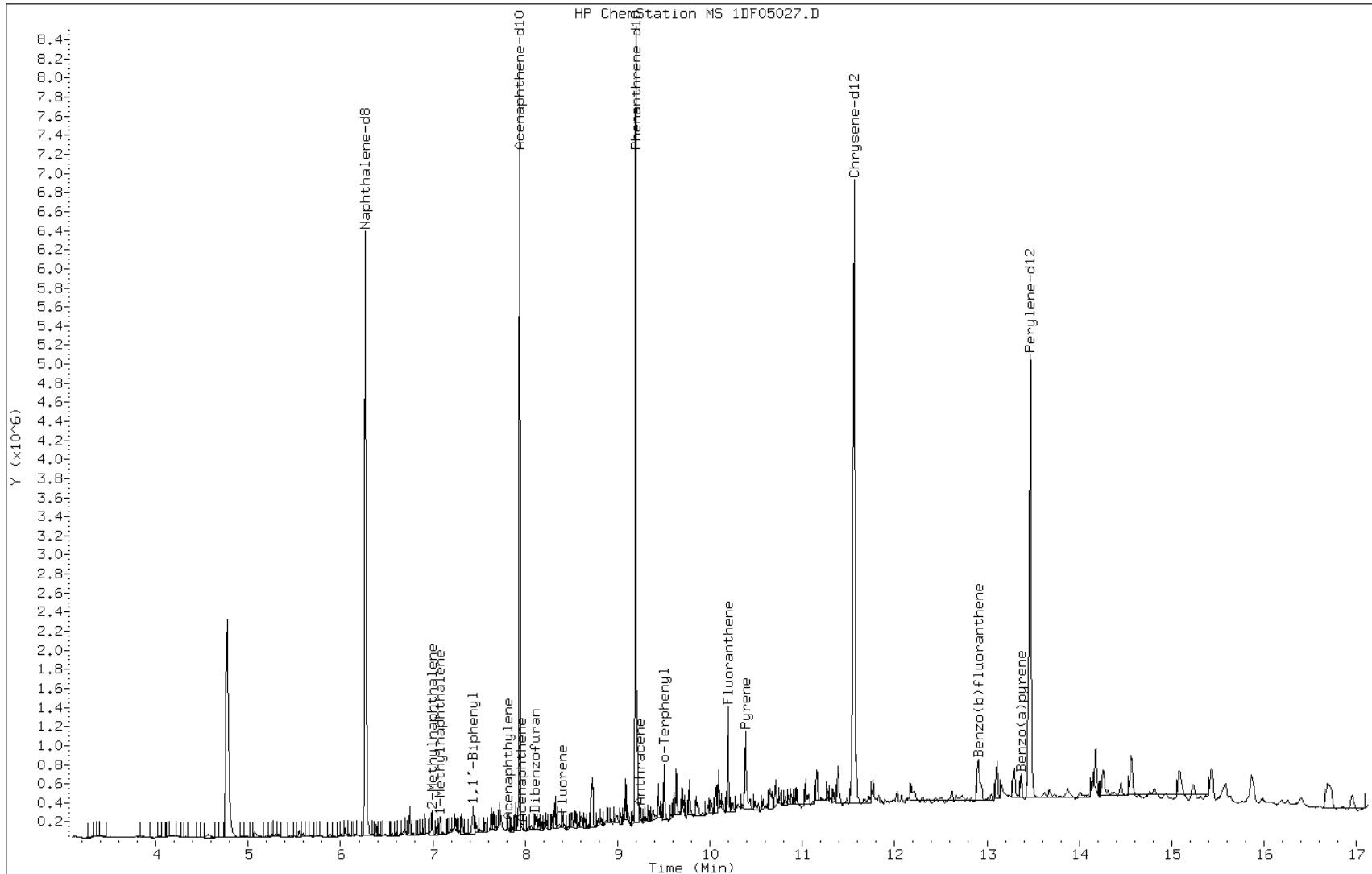
Date: 05-JUN-2013 20:56

Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

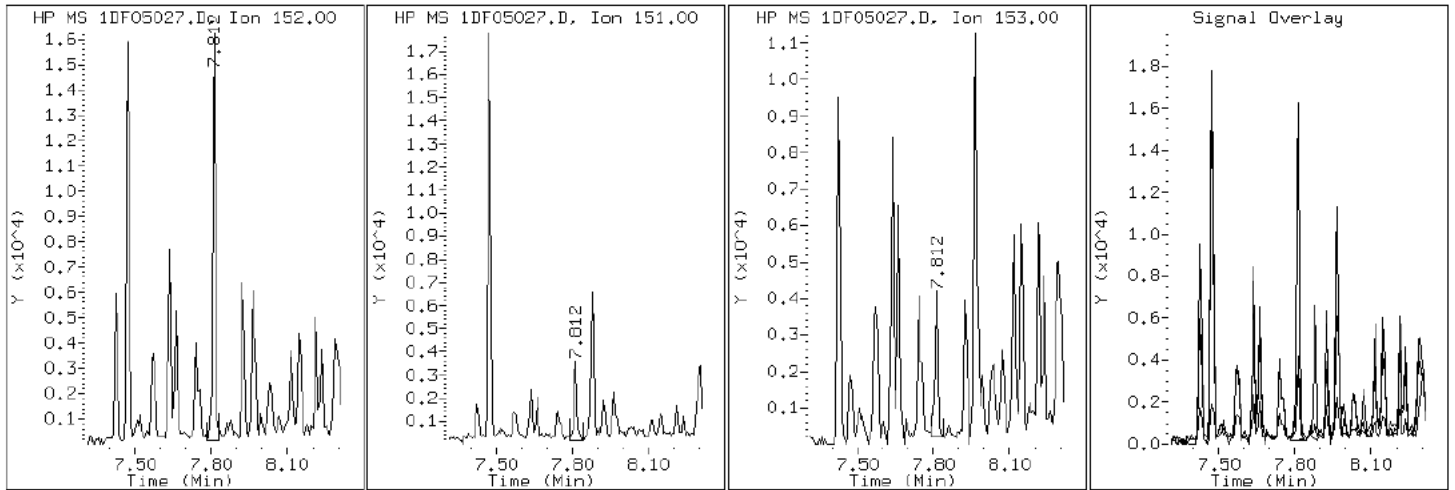
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

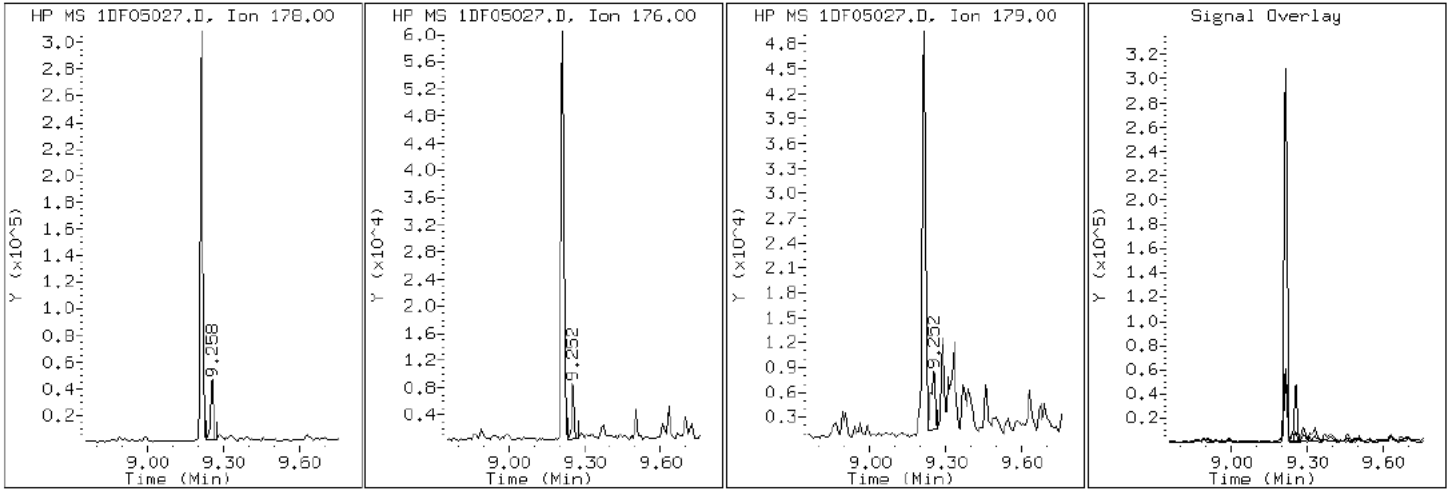
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

13 Anthracene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

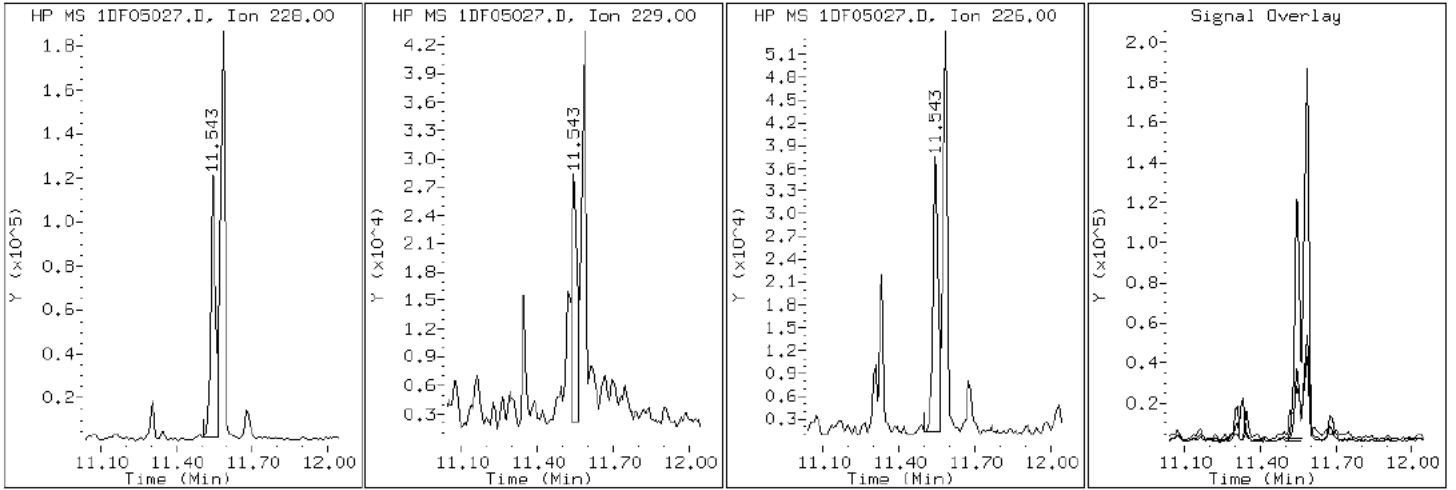
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

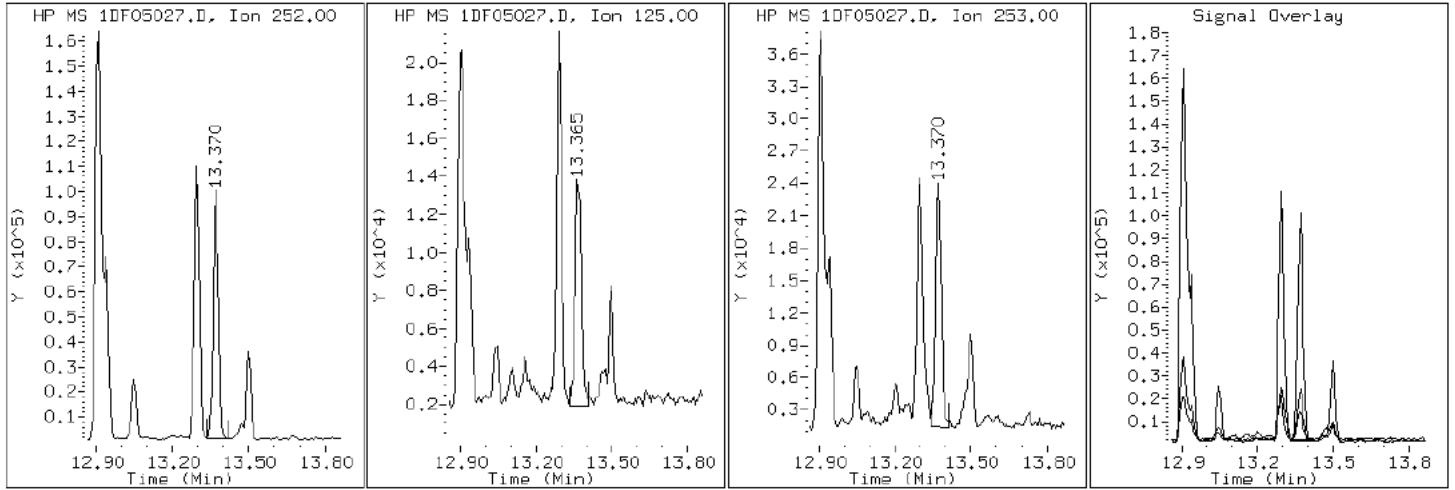
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

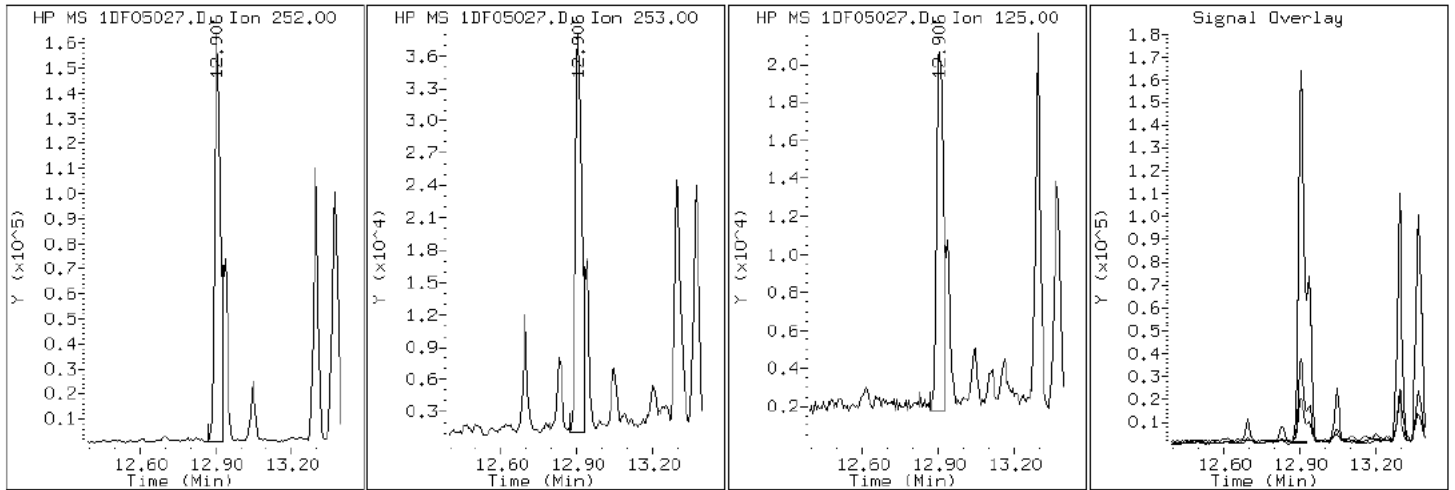
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

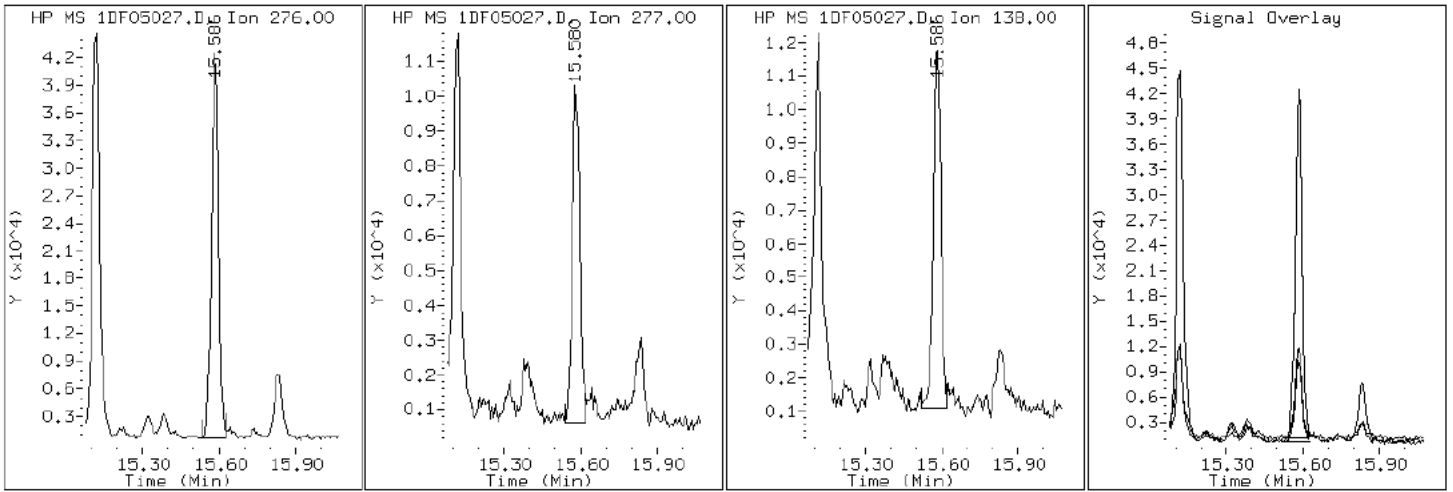
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

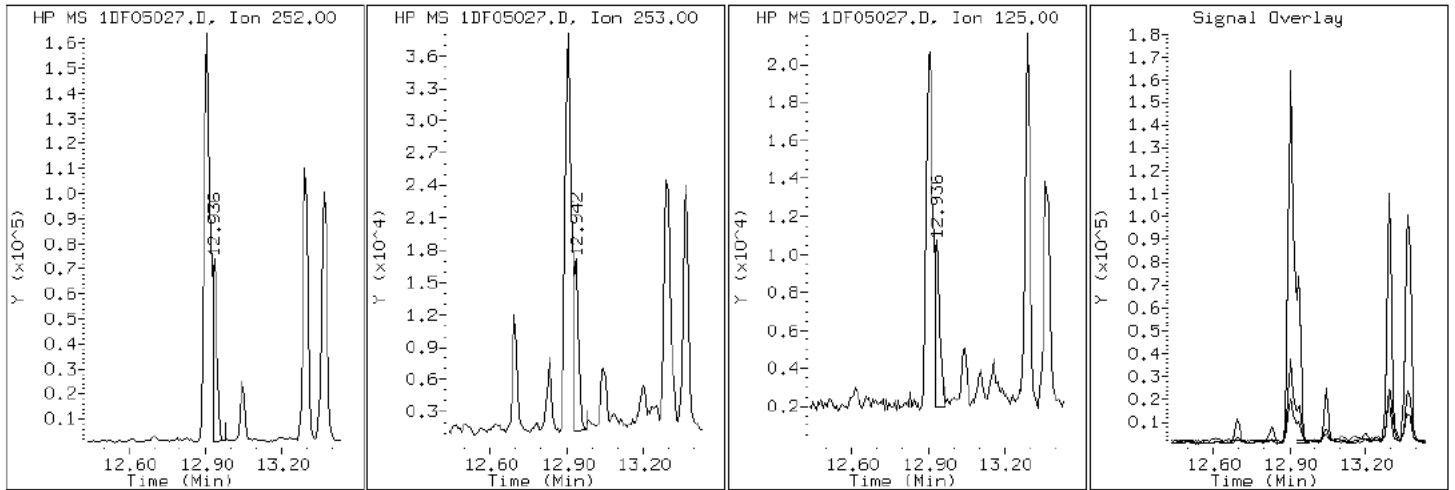
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

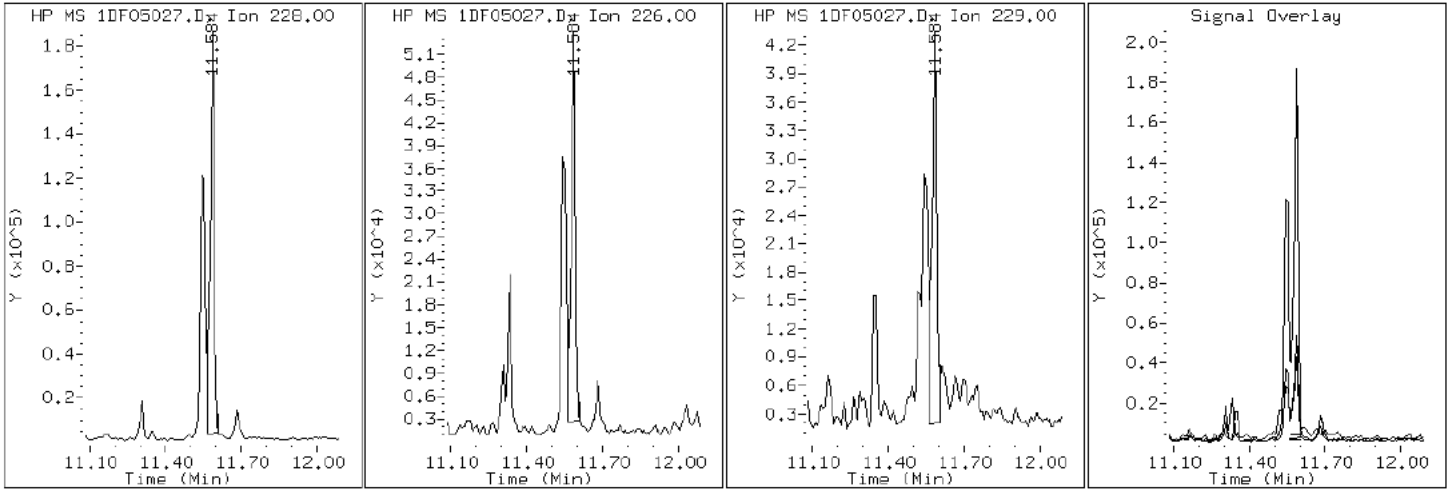
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

20 Chrysene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

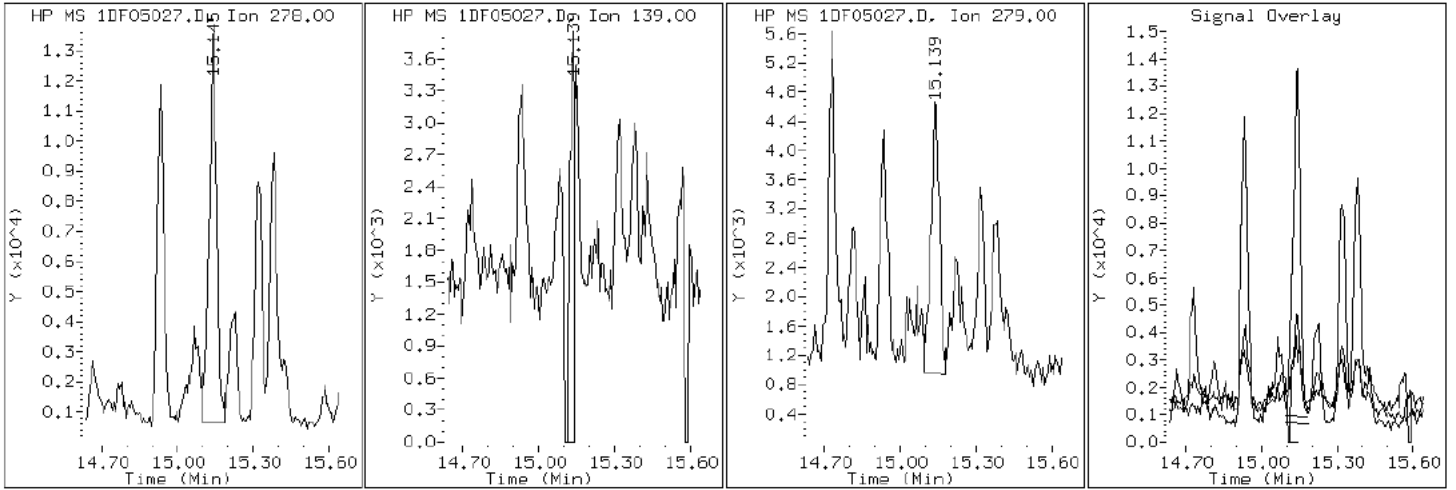
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

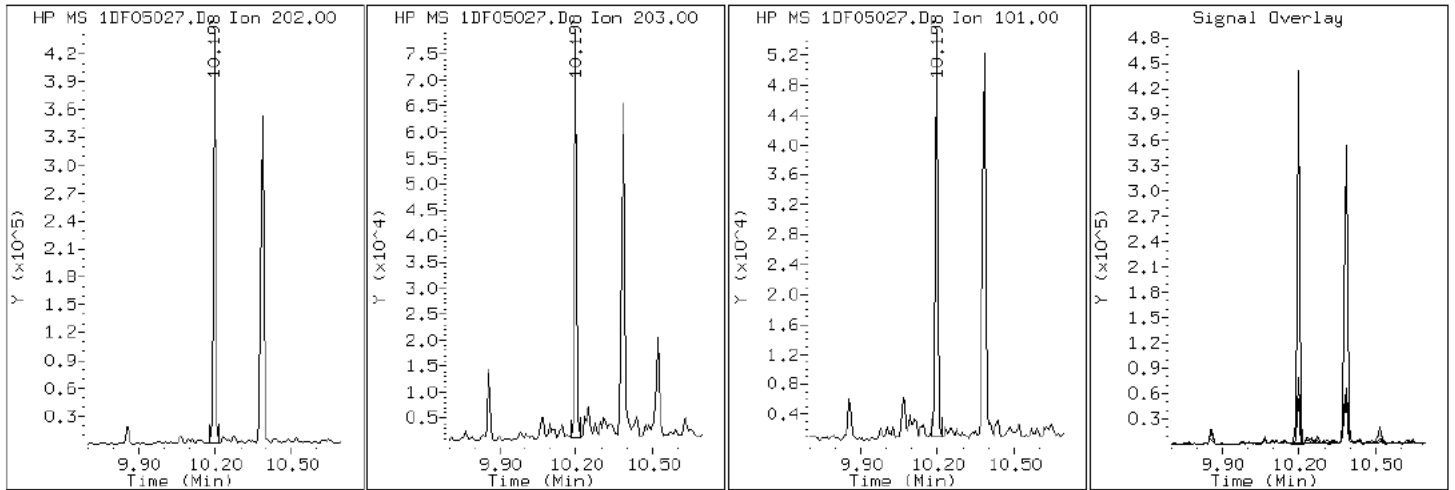
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

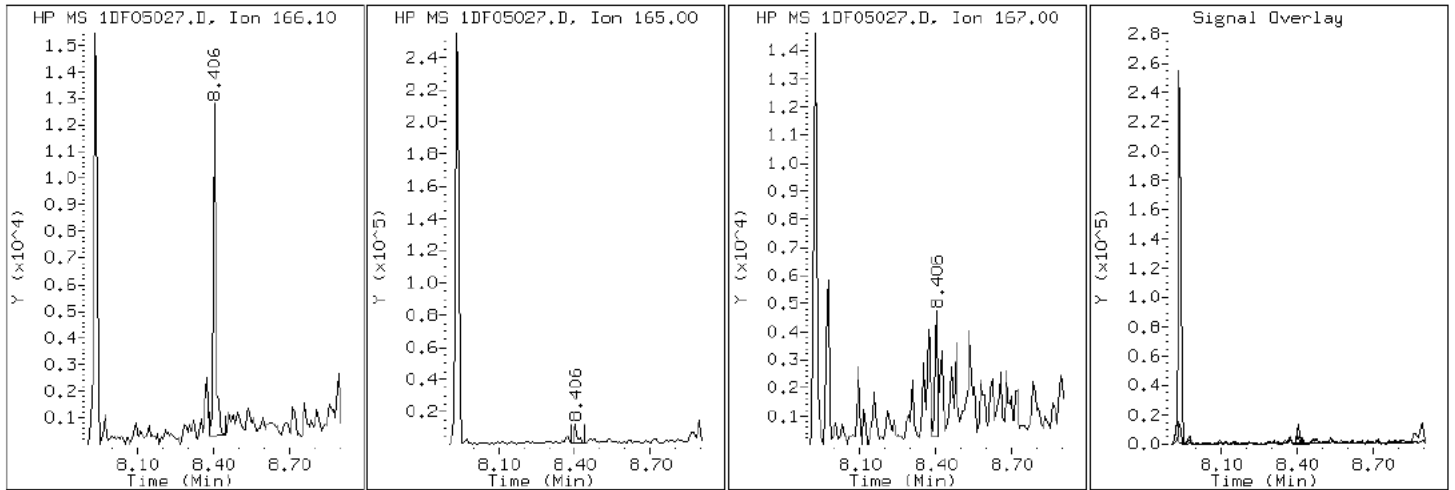
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

10 Fluorene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

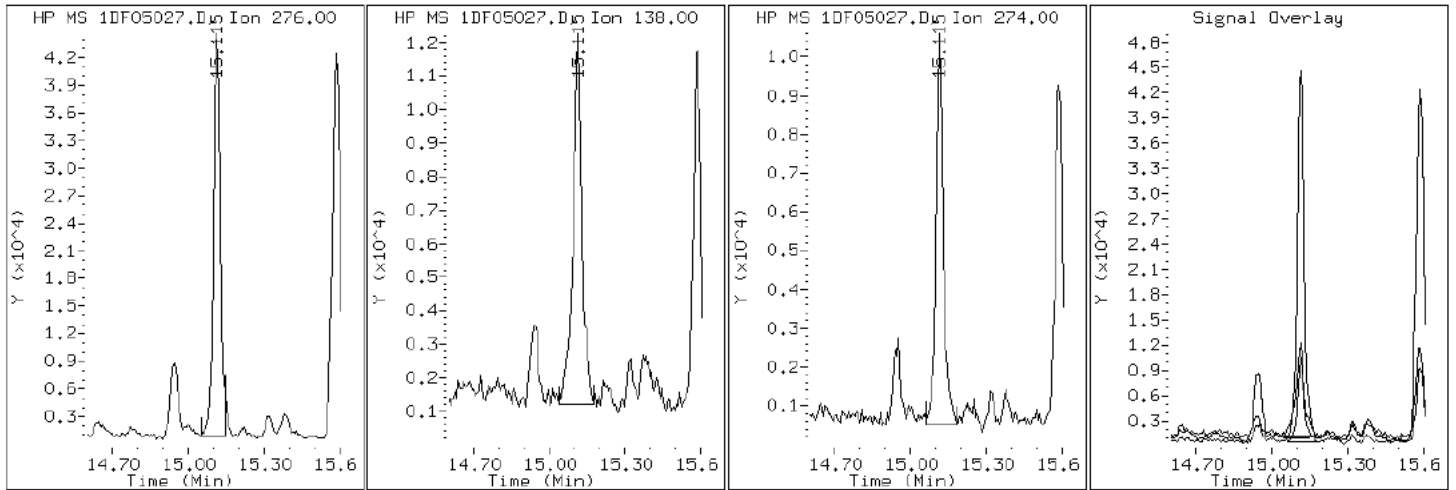
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

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



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

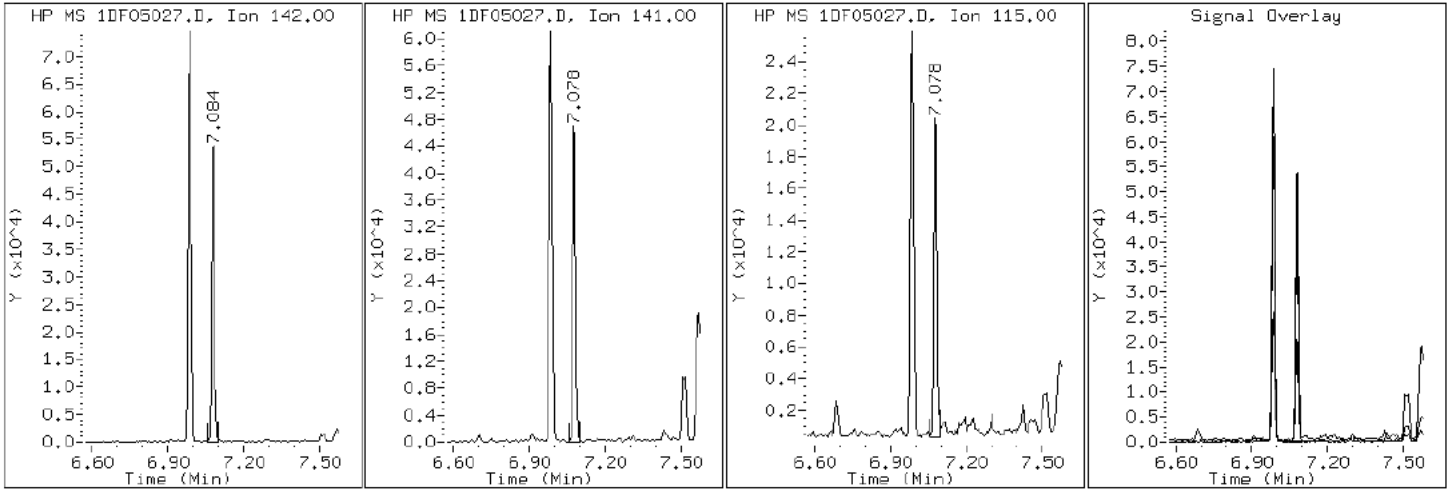
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

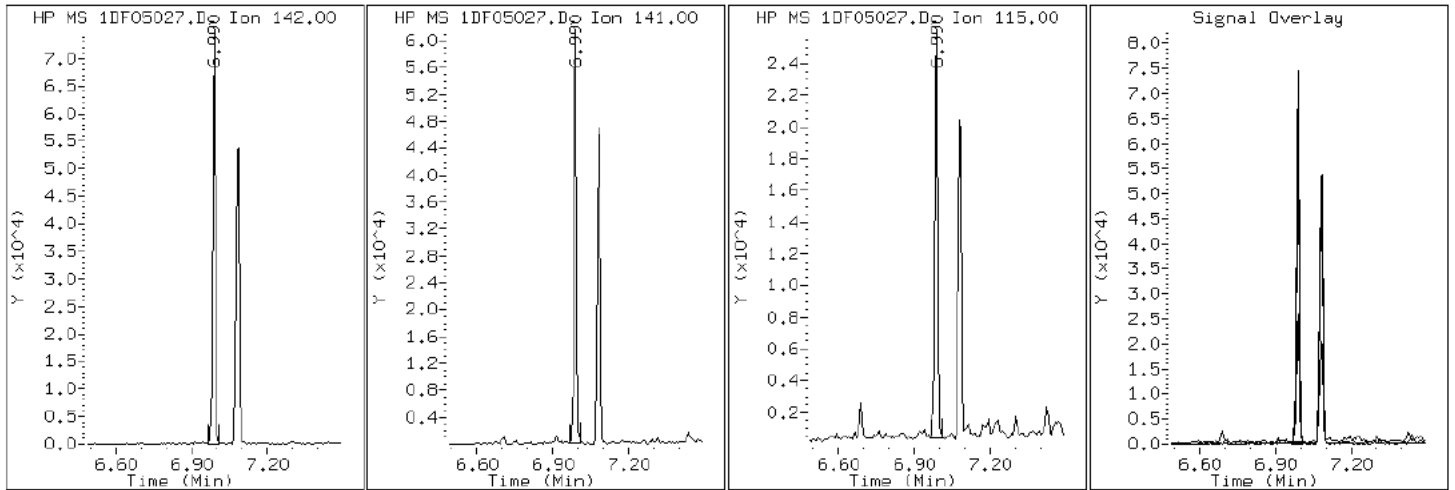
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

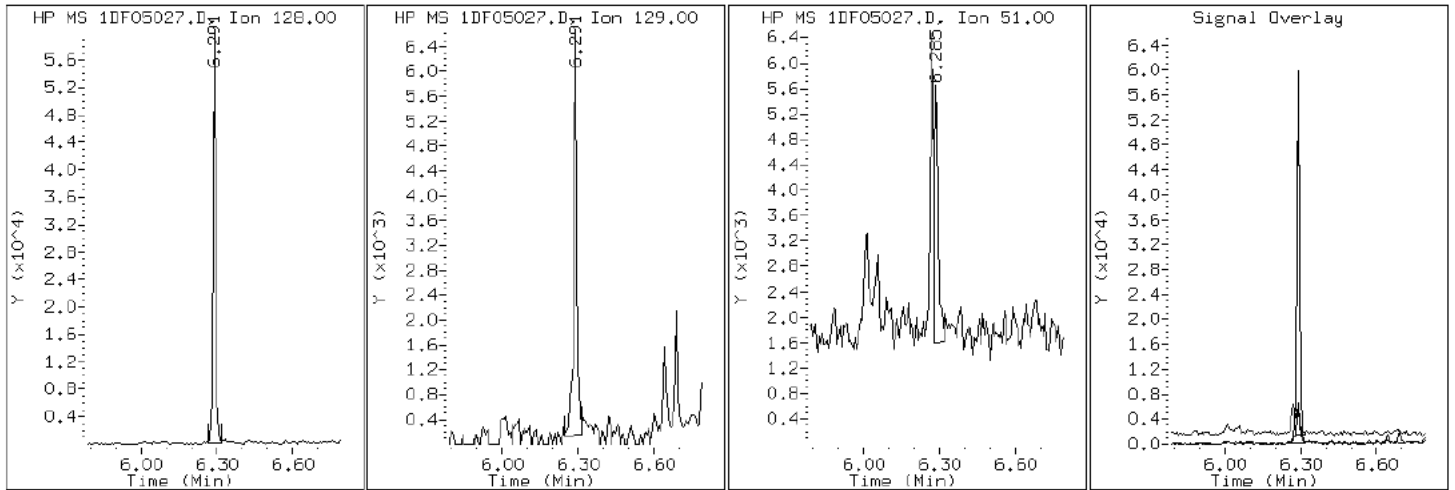
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

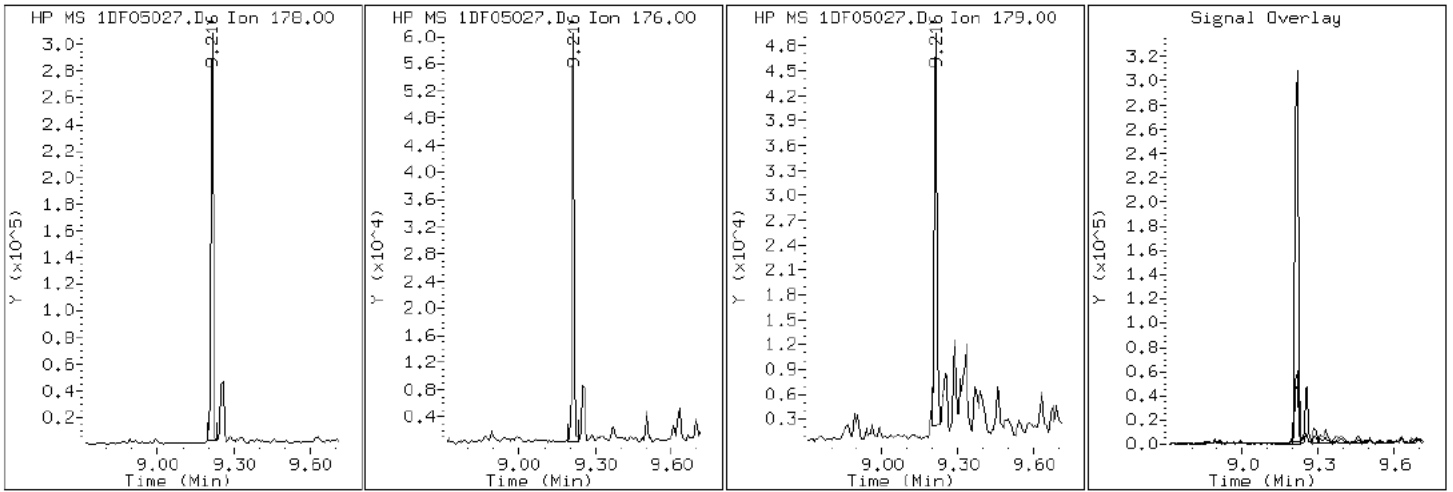
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05027.D

Date: 05-JUN-2013 20:56

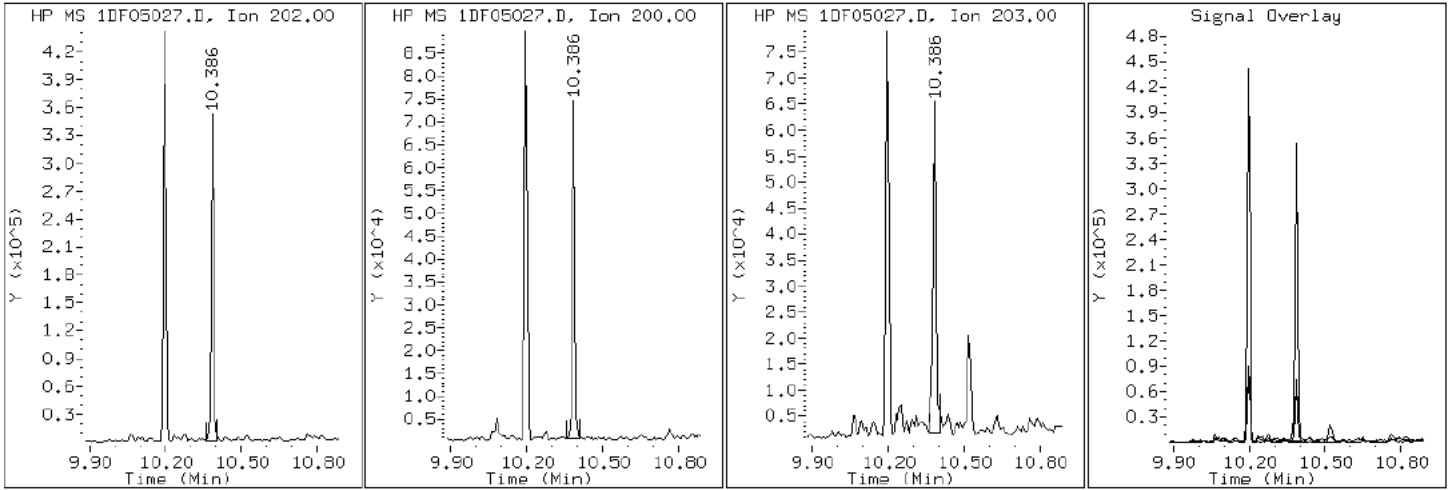
Client ID: CV0990B-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-19-a

Operator: SCC

17 Pyrene

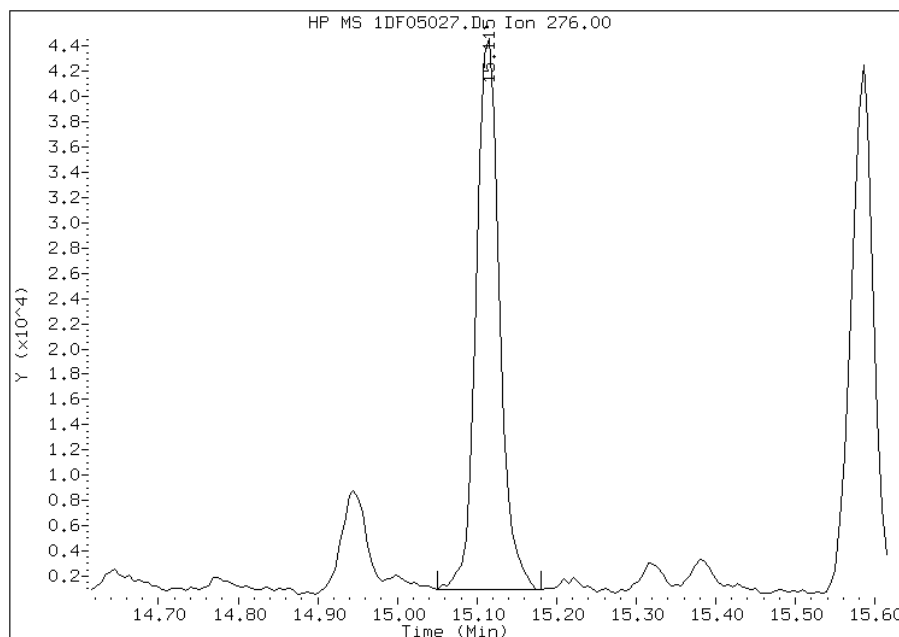


Manual Integration Report

Data File: 1DF05027.D
Inj. Date and Time: 05-JUN-2013 20:56
Instrument ID: BSMSD.i
Client ID: CV0990B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

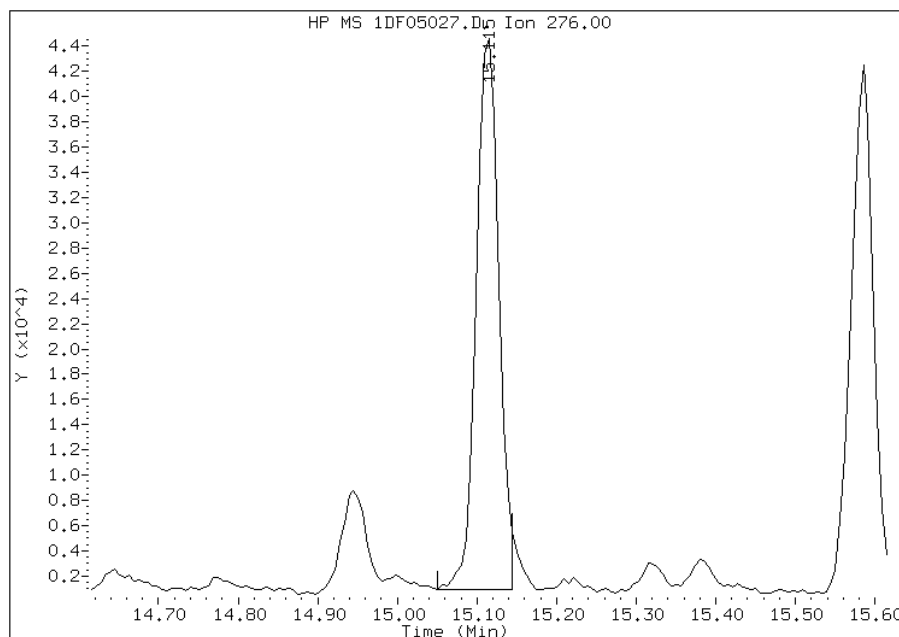
Processing Integration Results

RT: 15.12
Response: 88456
Amount: 1
Conc: 488



Manual Integration Results

RT: 15.12
Response: 86156
Amount: 1
Conc: 476



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0990C-CS Lab Sample ID: 680-90686-20
 Matrix: Solid Lab File ID: 1DF05028.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 12:55
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.13(g) Date Analyzed: 06/05/2013 21:19
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	280	J	530	110
208-96-8	Acenaphthylene	190	J	210	26
120-12-7	Anthracene	830		44	22
56-55-3	Benzo[a]anthracene	2500		42	21
50-32-8	Benzo[a]pyrene	2600		55	27
205-99-2	Benzo[b]fluoranthene	4100		64	32
191-24-2	Benzo[g,h,i]perylene	1300		110	23
207-08-9	Benzo[k]fluoranthene	1500		42	19
218-01-9	Chrysene	2900		47	24
53-70-3	Dibenz(a,h)anthracene	450		110	22
206-44-0	Fluoranthene	5100		110	21
86-73-7	Fluorene	270		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	1300		110	37
90-12-0	1-Methylnaphthalene	430		210	23
91-57-6	2-Methylnaphthalene	600		210	37
91-20-3	Naphthalene	340		210	23
85-01-8	Phenanthrene	3400		42	21
129-00-0	Pyrene	3900		110	19

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

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05028.D
 Lab Smp Id: 680-90686-A-20-A Client Smp ID: CV0990C-CS
 Inj Date : 05-JUN-2013 21:19
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-20-a
 Misc Info : 680-90686-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	24.694	% 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		6.272	6.265	(1.000)	3023906	40.0000	
* 7 Acenaphthene-d10	164		7.941	7.934	(1.000)	1622241	40.0000	
* 11 Phenanthrene-d10	188		9.198	9.191	(1.000)	2551264	40.0000	
\$ 15 o-Terphenyl	230		9.504	9.503	(1.033)	84261	2.25437	790
* 19 Chrysene-d12	240		11.566	11.553	(1.000)	2517001	40.0000	
* 24 Perylene-d12	264		13.475	13.457	(1.000)	2651547	40.0000	
2 Naphthalene	128		6.290	6.289	(1.003)	72901	0.97760	340
3 2-Methylnaphthalene	142		6.989	6.988	(1.114)	81762	1.72201	600
4 1-Methylnaphthalene	142		7.083	7.076	(1.129)	60112	1.22977	430
5 1,1'-Biphenyl	154		7.424	7.423	(0.935)	24623	0.44926	160
6 Acenaphthylene	152		7.811	7.811	(0.984)	35542	0.52842	180
8 Acenaphthene	154		7.964	7.963	(1.003)	33599	0.78745	280
9 Dibenzofuran	168		8.111	8.110	(1.021)	53841	0.91515	320
10 Fluorene	166		8.405	8.404	(1.058)	37418	0.77506	270

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.216	9.215	(1.002)	671470	9.71784	3400
13 Anthracene	178	9.257	9.256	(1.006)	159234	2.37511	830
16 Fluoranthene	202	10.197	10.196	(1.109)	1026730	14.5247	5100
17 Pyrene	202	10.385	10.384	(0.898)	827660	11.2314	3900
18 Benzo(a)anthracene	228	11.548	11.542	(0.998)	530163	7.09731	2500
20 Chrysene	228	11.589	11.583	(1.002)	550503	8.18408	2900
21 Benzo(b)fluoranthene	252	12.905	12.893	(0.958)	768919	11.5754	4100
22 Benzo(k)fluoranthene	252	12.941	12.934	(0.960)	306579	4.40725	1500
23 Benzo(a)pyrene	252	13.375	13.363	(0.993)	473564	7.29959	2600
25 Indeno(1,2,3-cd)pyrene	276	15.115	15.102	(1.122)	253220	3.82209	1300(M)
26 Dibenzo(a,h)anthracene	278	15.144	15.137	(1.124)	75913	1.26987	440
27 Benzo(g,h,i)perylene	276	15.585	15.572	(1.157)	229793	3.81671	1300

QC Flag Legend

M - Compound response manually integrated.

Data File: 1DF05028.D

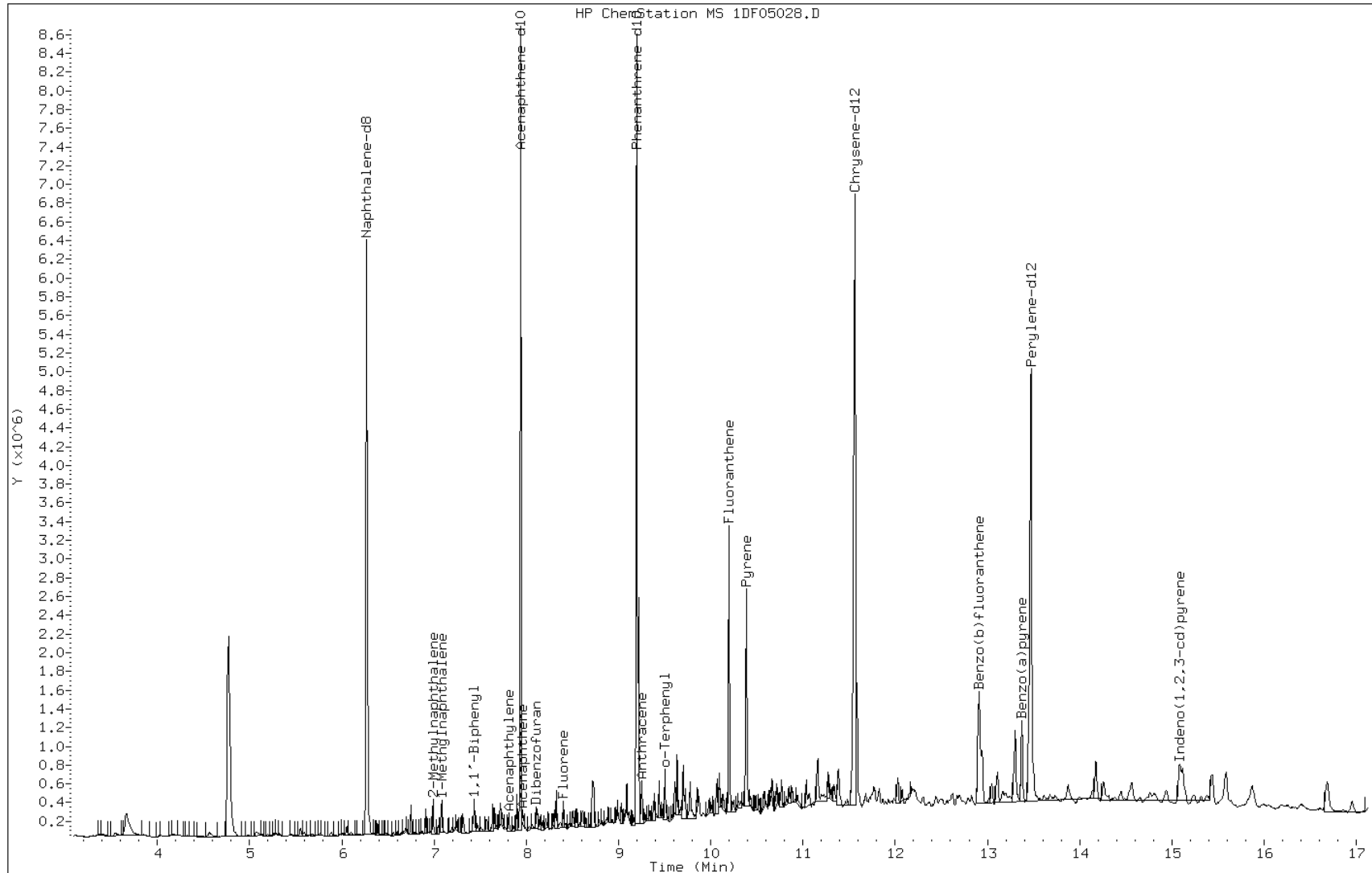
Date: 05-JUN-2013 21:19

Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

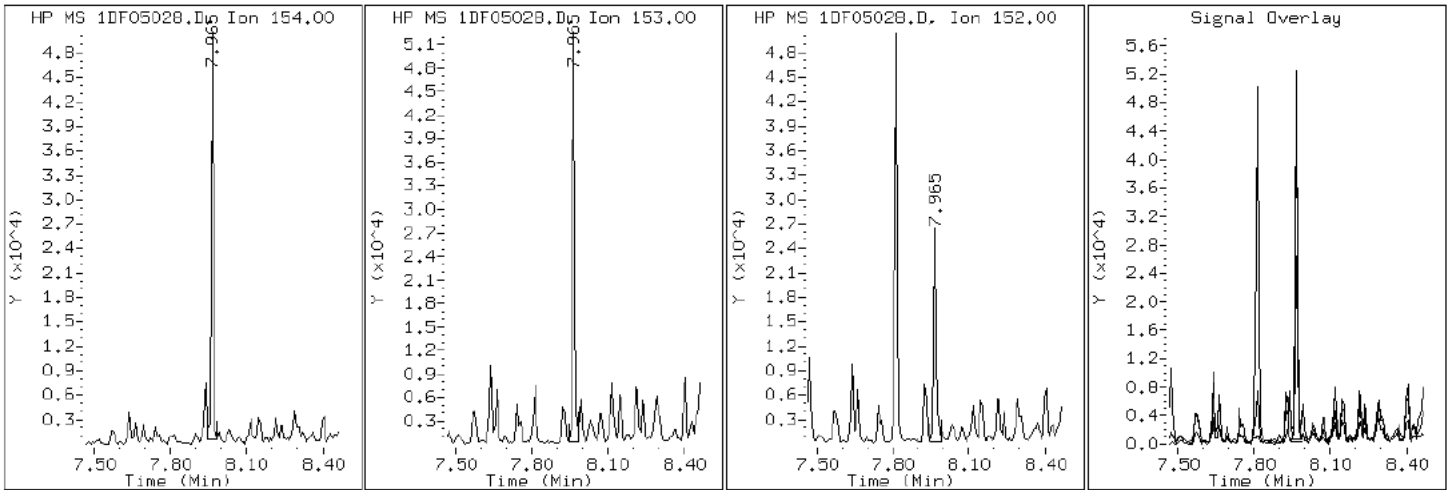
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

8 Acenaphthene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

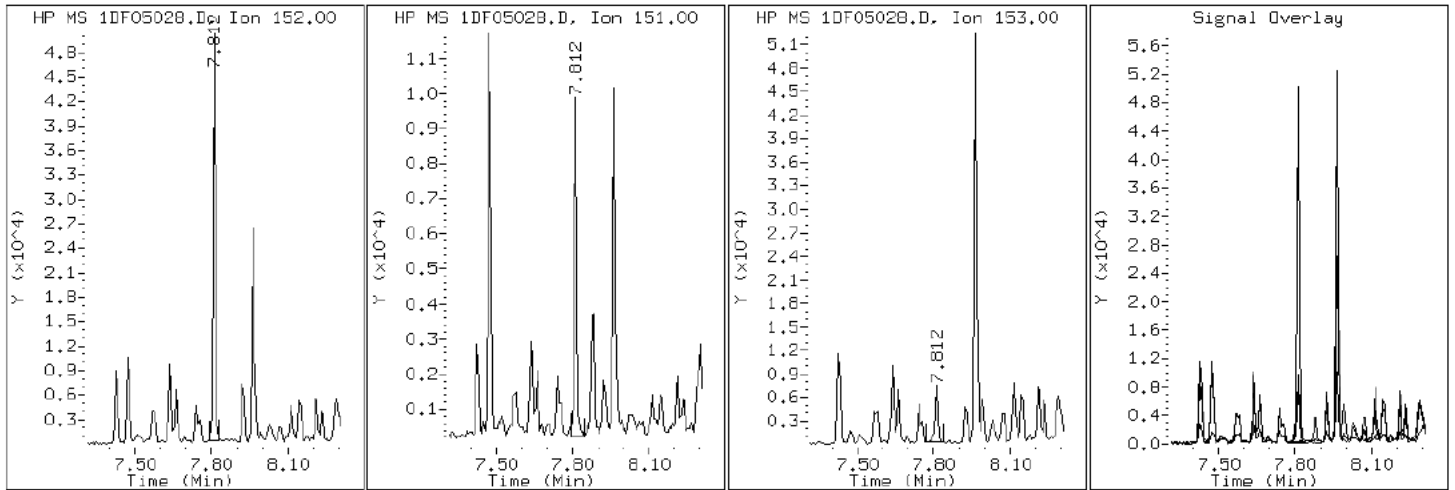
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

6 Acenaphthylene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

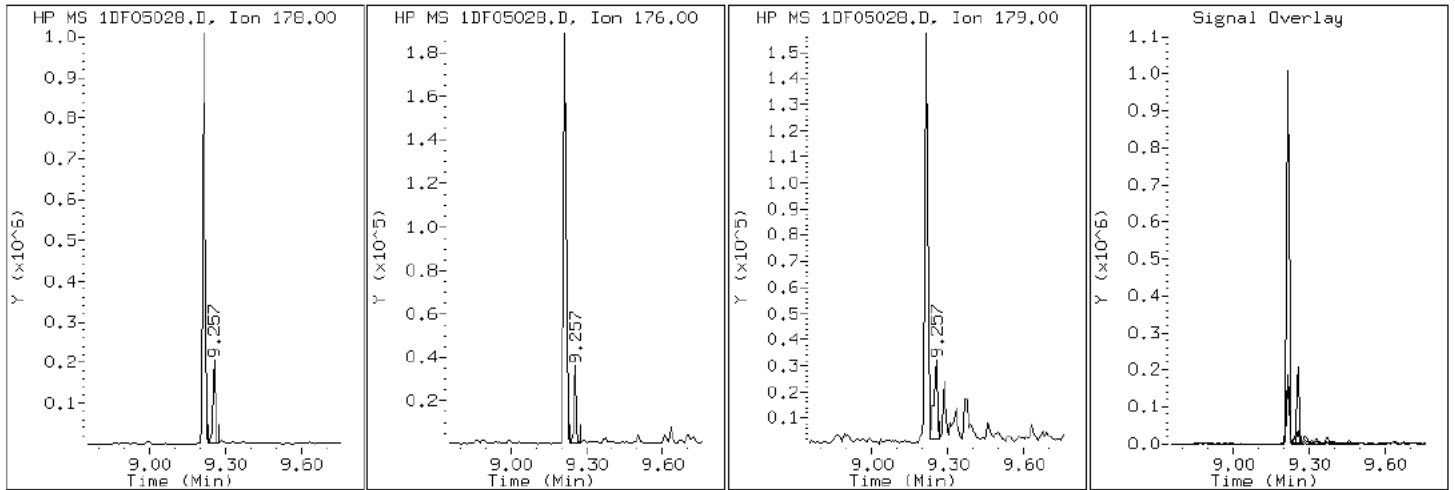
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

13 Anthracene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

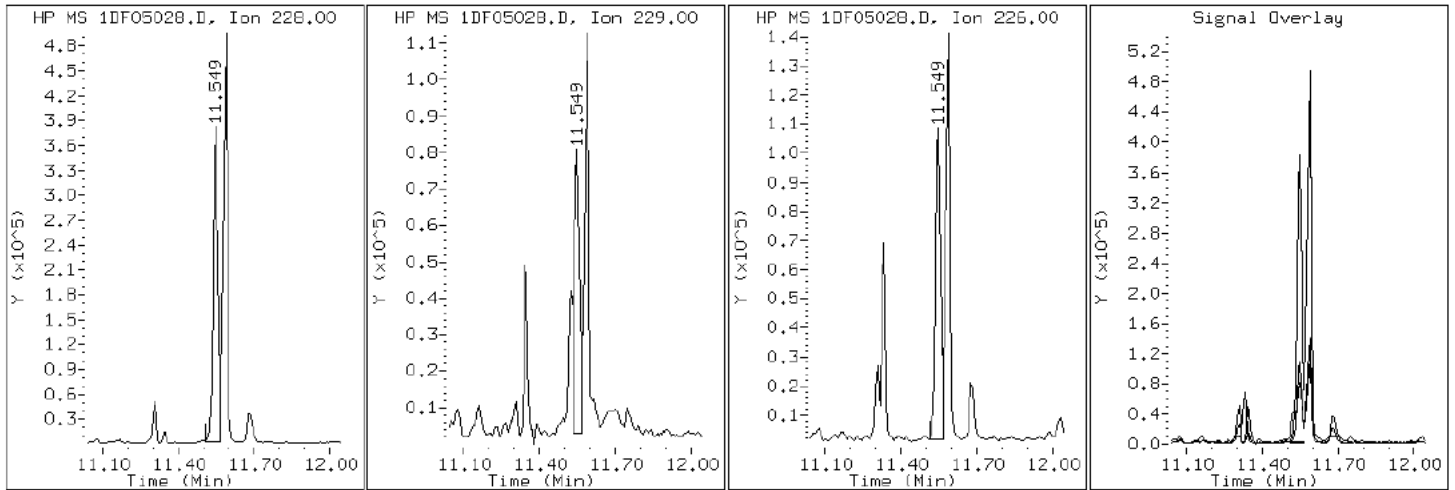
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

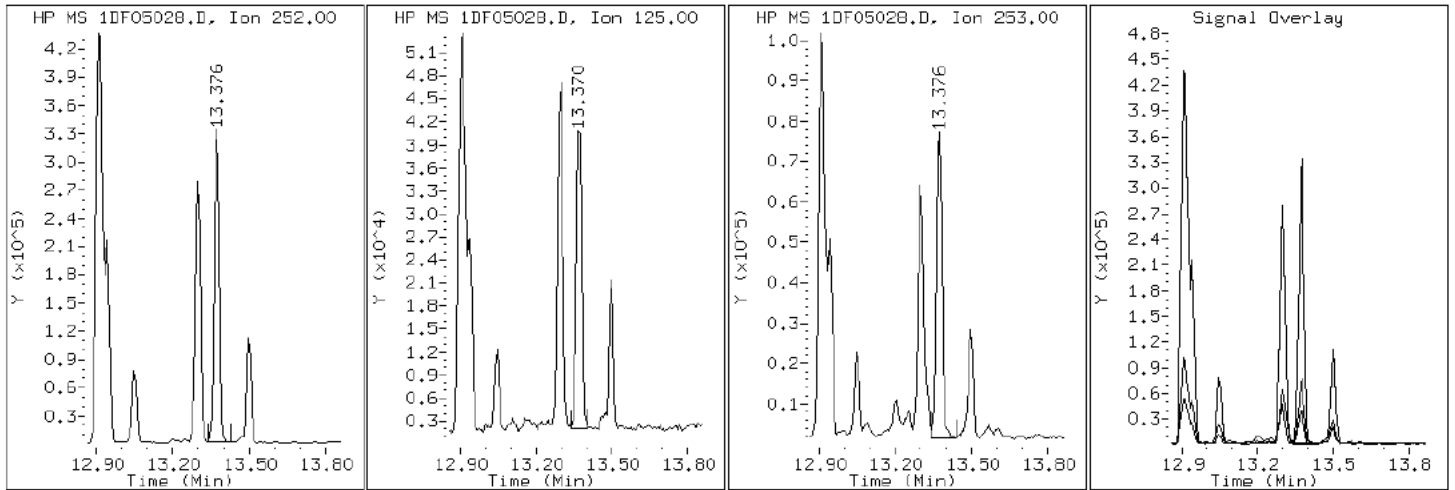
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

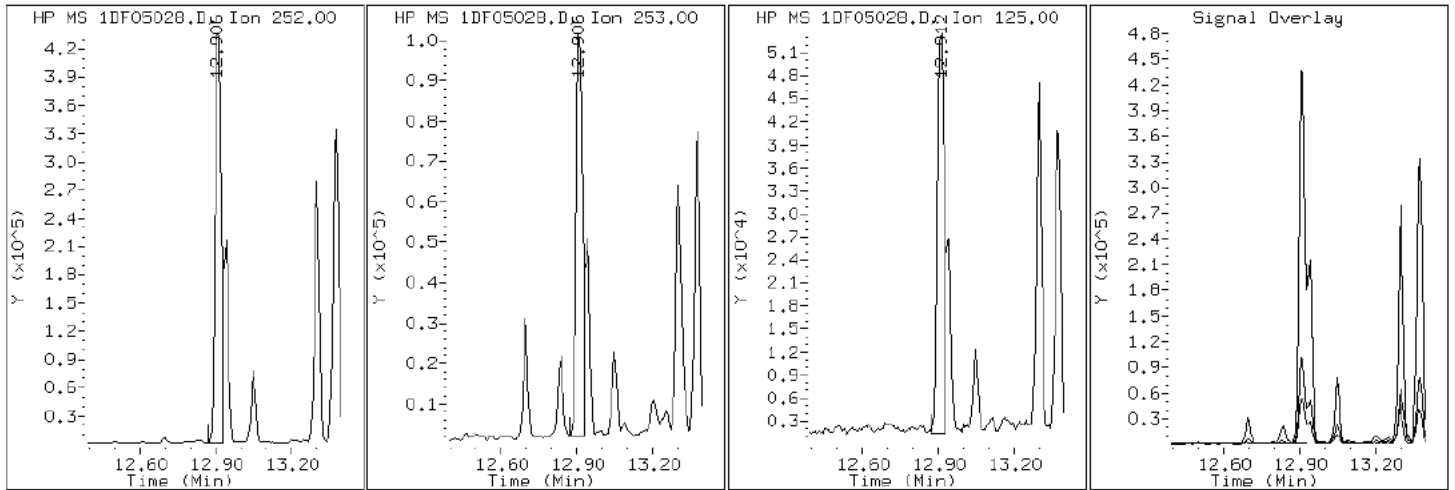
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

21 Benzo (b) fluoranthene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

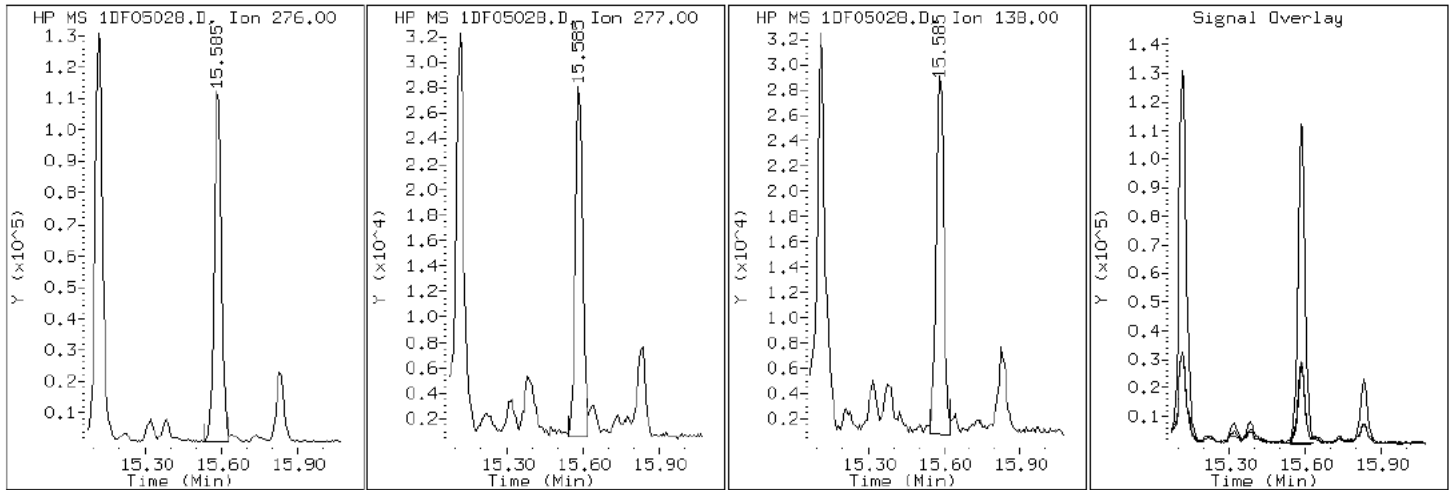
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

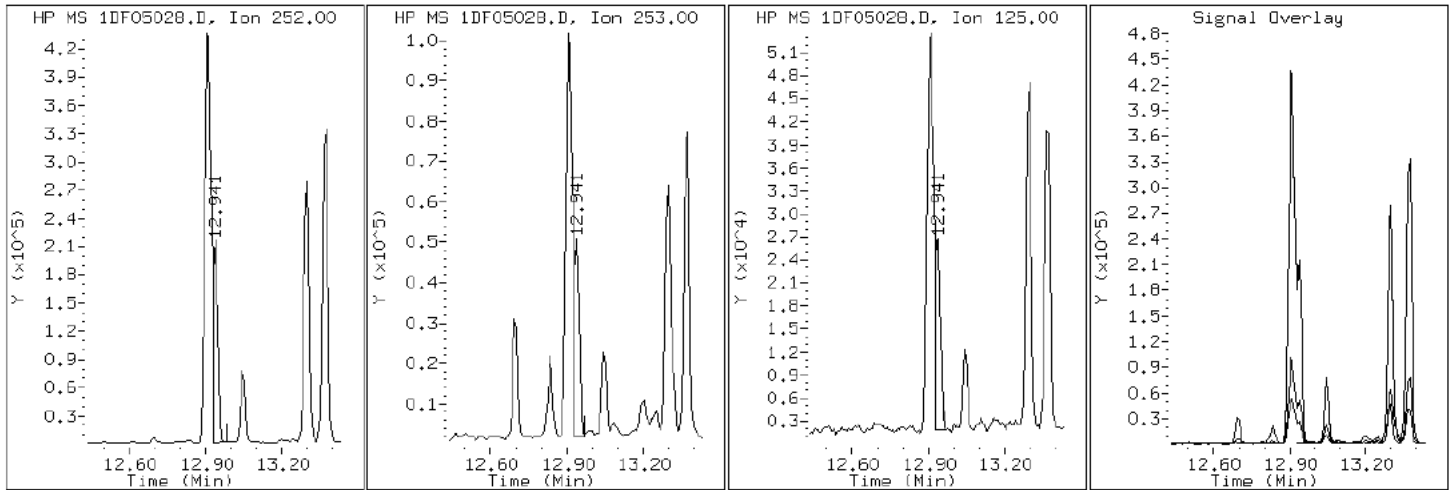
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

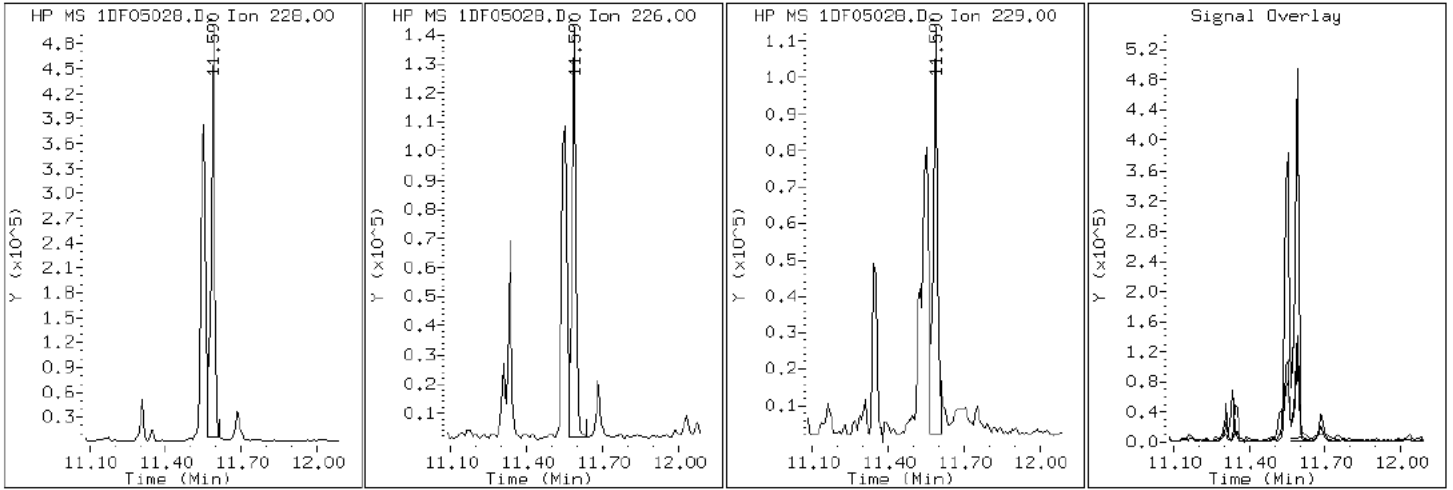
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

20 Chrysene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

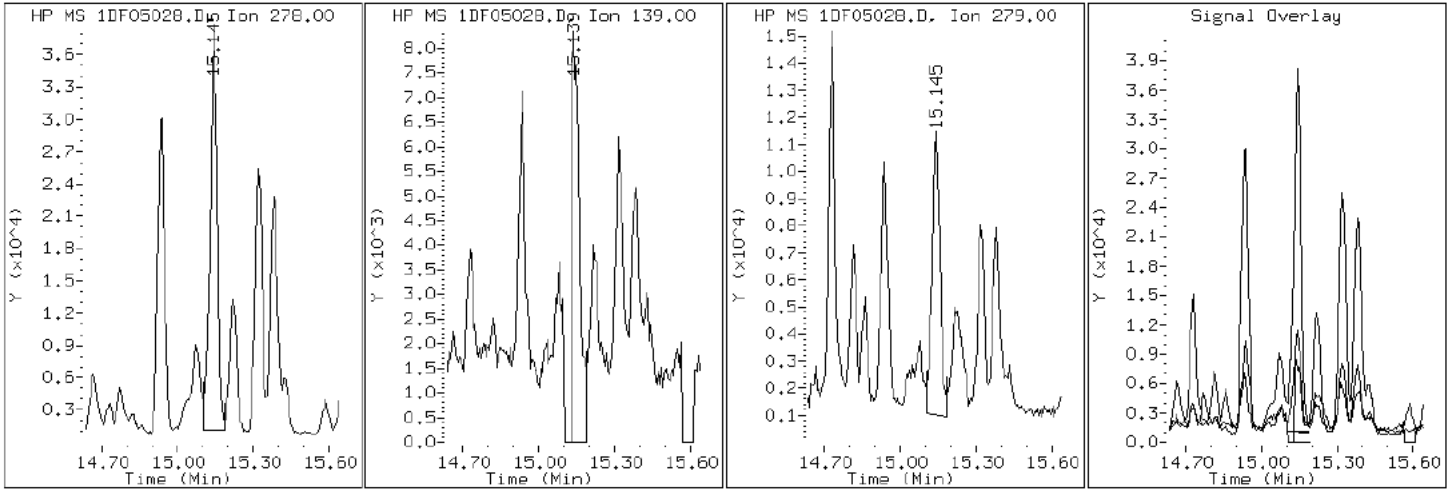
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

26 Dibenzo (a,h) anthracene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

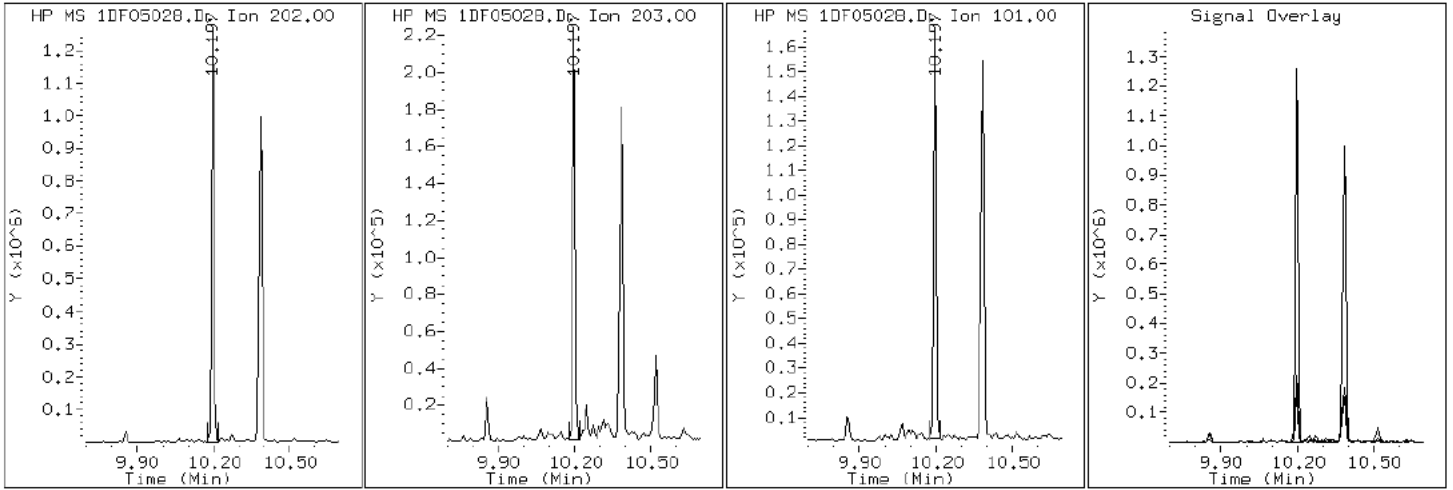
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

16 Fluoranthene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

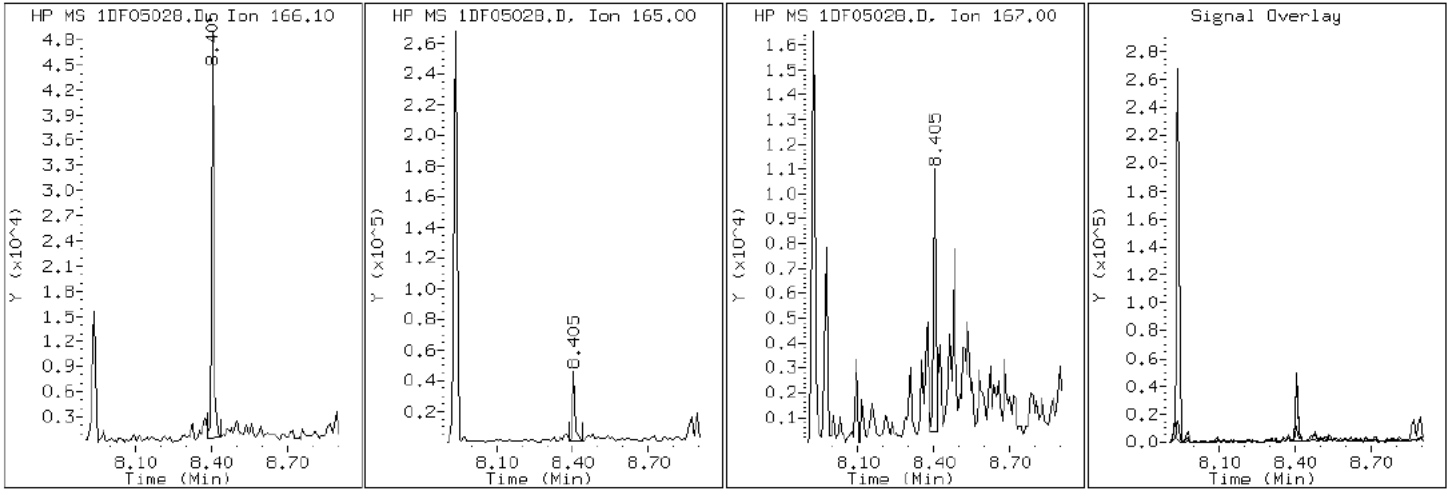
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

10 Fluorene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

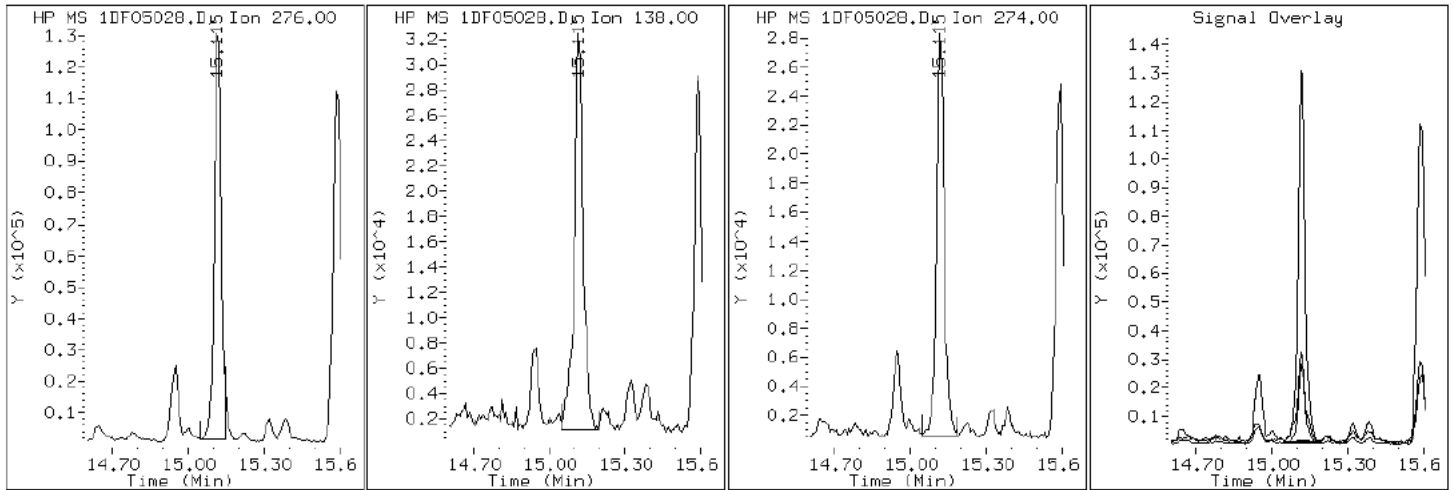
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

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



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

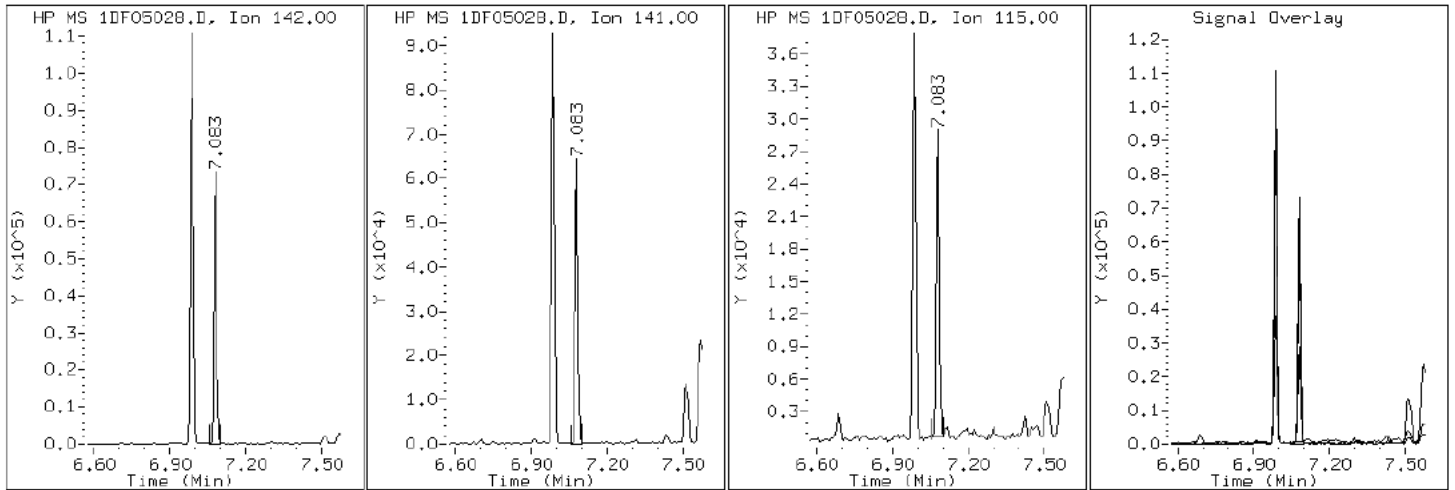
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

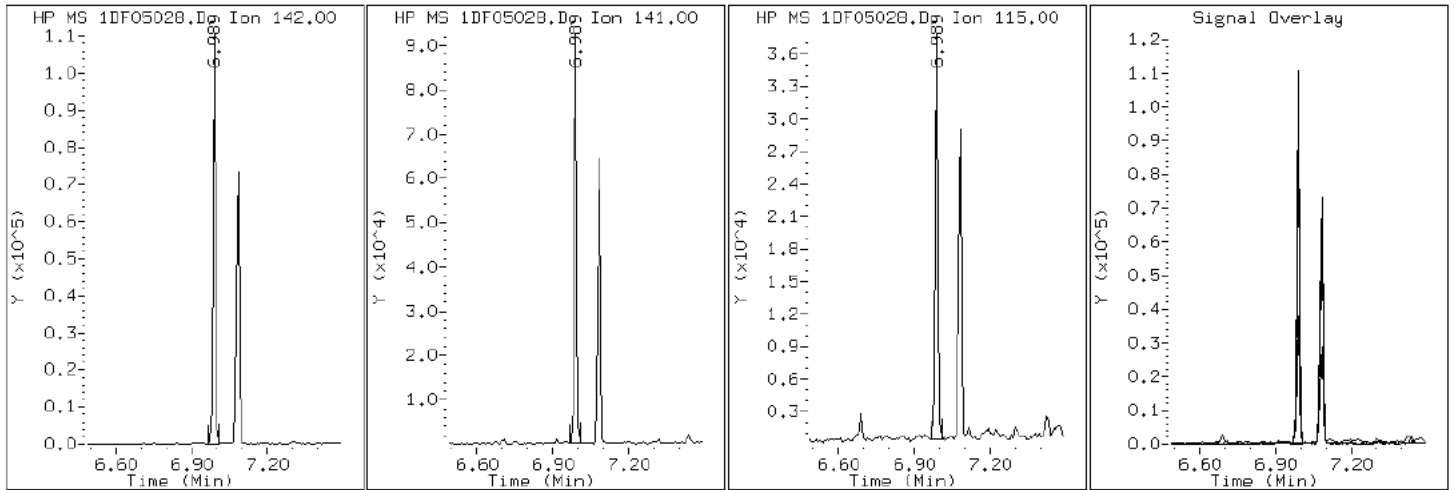
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

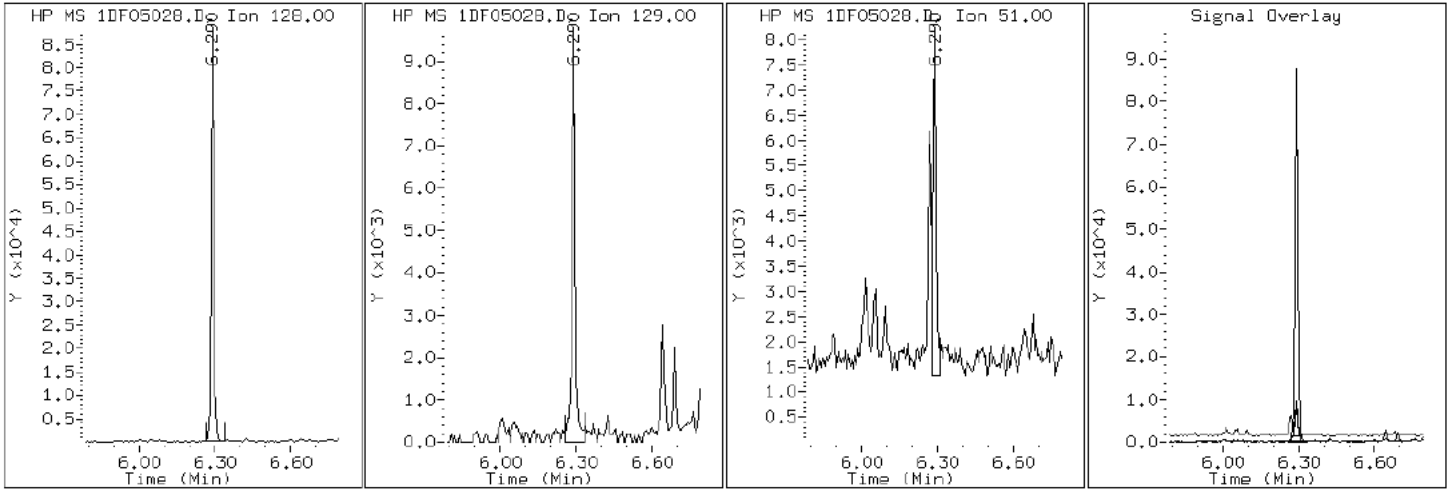
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

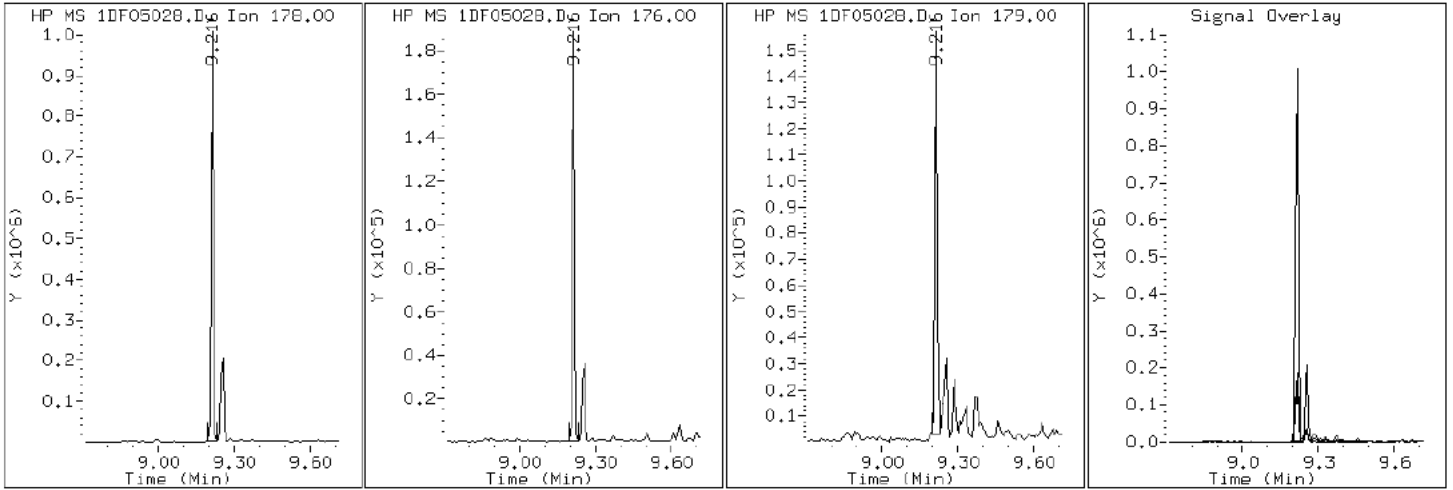
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

12 Phenanthrene



Data File: 1DF05028.D

Date: 05-JUN-2013 21:19

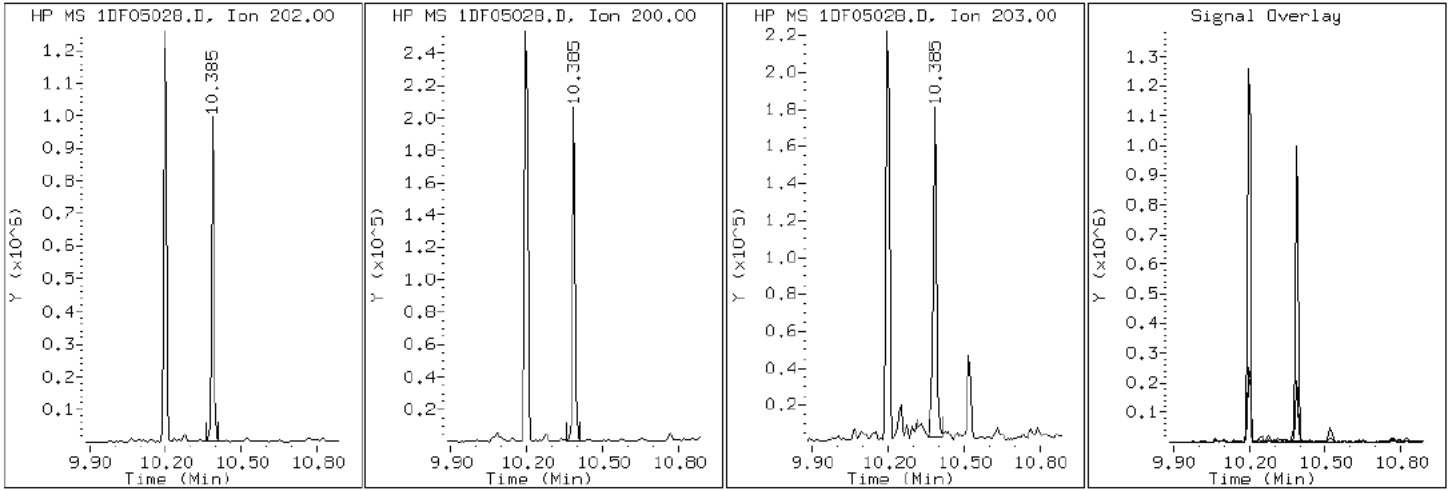
Client ID: CV0990C-CS

Instrument: BSMSD.i

Sample Info: 680-90686-a-20-a

Operator: SCC

17 Pyrene

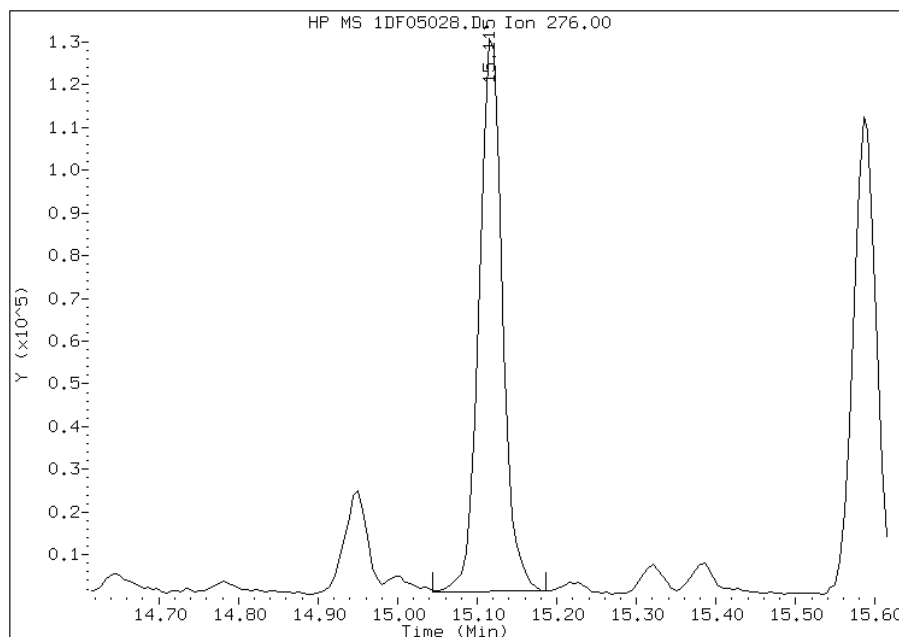


Manual Integration Report

Data File: 1DF05028.D
Inj. Date and Time: 05-JUN-2013 21:19
Instrument ID: BSMSD.i
Client ID: CV0990C-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/06/2013

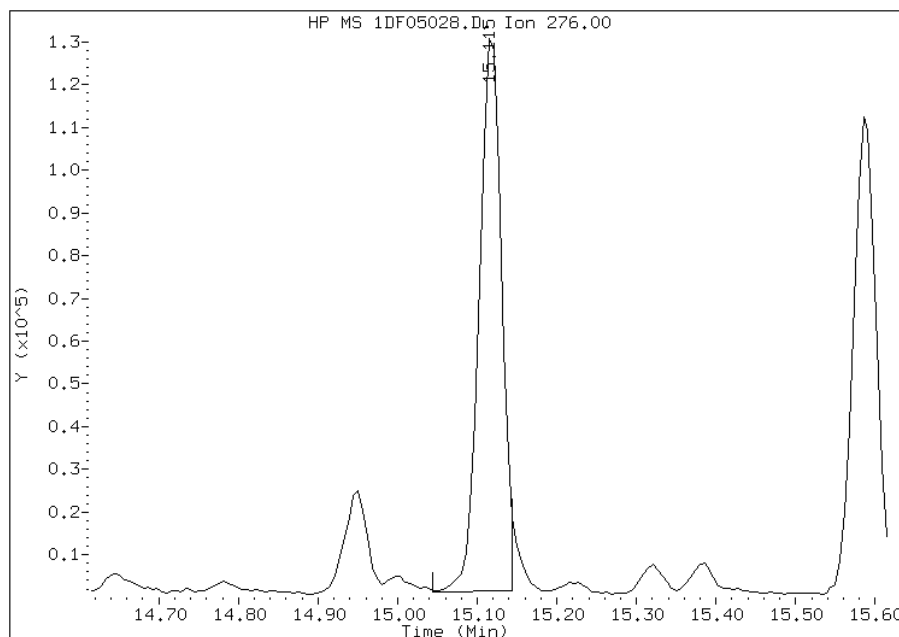
Processing Integration Results

RT: 15.12
Response: 261717
Amount: 4
Conc: 1385



Manual Integration Results

RT: 15.12
Response: 253220
Amount: 4
Conc: 1342



Manually Integrated By: cantins
Modification Date: 06-Jun-2013 10:38
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1 Analy Batch No.: 137743

SDG No.: 68090686-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137743/3	1AE23003.D
Level 2	IC 660-137743/4	1AE23004.D
Level 3	IC 660-137743/5	1AE23005.D
Level 4	IC 660-137743/6	1AE23006.D
Level 5	ICIS 660-137743/7	1AE23007.D
Level 6	IC 660-137743/8	1AE23008.D
Level 7	IC 660-137743/9	1AE23009.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	0.8319 0.8962	0.9157 0.9264	0.9234	0.9310	0.9148	Ave	0.9056			0.0000	3.8		15.0				
2-Methylnaphthalene	0.3158 0.4577	0.3922 0.4963	0.4215	0.4536	0.4814	Ave	0.4312			0.0000	14.3		15.0				
1-Methylnaphthalene	0.5602 0.5822	0.7181 0.6149	0.6793	0.6269	0.6272	Ave	0.6298			0.0000	8.6		15.0				
1,1'-Biphenyl	0.5259 0.7171	0.7312 0.7740	0.7012	0.7198	0.7556	Ave	0.7036				11.7						
Acenaphthylene	1.6577 1.6980	1.7503 1.7645	1.6569	1.8622	1.8617	Ave	1.7502			0.0000	5.0		15.0				
Acenaphthene	0.9536 0.9129	0.9294 1.0016	0.8826	0.9143	0.9537	Ave	0.9354			0.0000	4.1		15.0				
Dibenzofuran	1.2088 1.4088	1.4810 1.5785	1.4012	1.4479	1.4987	Ave	1.4321				8.1						
Fluorene	0.9500 1.0728	1.0708 1.1617	1.0622	1.1140	1.1701	Ave	1.0859			0.0000	6.8		15.0				
Phenanthrene	0.9504 0.9051	0.9041 0.9410	0.8412	0.8734	0.8910	Ave	0.9009			0.0000	4.2		15.0				
Anthracene	0.9343 0.9327	0.9716 0.9673	0.8920	0.9489	0.9503	Ave	0.9424			0.0000	2.8		15.0				
Fluoranthene	1.0979 1.2580	1.0659 1.1810	1.0397	1.0913	1.1397	Ave	1.1248			0.0000	6.7		15.0				
Pyrene	1.1882 1.2159	1.2507 1.2254	1.1273	1.1901	1.2396	Ave	1.2053			0.0000	3.4		15.0				
Benzo[a]anthracene	1.5740 1.1307	1.1155 1.1277	1.0247	1.1508	1.1016	None	-0.001	1.1190						0.9993			
Chrysene	1.0278 1.0292	1.1335 1.1101	1.0834	1.0015	1.0890	Ave	1.0678			0.0000	4.6		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.: 680-90686-1 Analy Batch No.: 137743

SDG No.: 68090686-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 12:51 Calibration End Date: 05/23/2013 14:22 Calibration ID: 2980

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[b]fluoranthene	0.6658 1.2200	0.8048 1.2739	0.8478	1.0966	1.0386	Lin1	0.0048	1.2050						0.9909			
Benzo[k]fluoranthene	1.2670 1.3773	1.3096 1.3114	1.4205	1.2375	1.3926	Ave		1.3308		0.0000	5.1		15.0				
Benzo[a]pyrene	0.8001 1.0897	0.8707 1.0993	0.9554	1.0013	1.0138	Ave		0.9757		0.0000	11.3		15.0				
Indeno[1,2,3-cd]pyrene	0.8565 1.0198	0.6317 1.0336	0.7715	0.8096	0.8827	Lin1	0.0036	0.9861						0.9914			
Dibenz(a,h)anthracene	0.6372 0.9828	0.7229 1.0235	0.7912	0.8277	0.8776	None	0.0034	0.9663						0.9934			
Benzo[g,h,i]perylene	0.7024 0.9539	0.8334 0.9472	0.8307	0.8205	0.9198	Ave		0.8583		0.0000	10.4		15.0				
o-Terphenyl	0.5674 0.5800	0.5638 0.6041	0.5642	0.5876	0.5826	Ave		0.5785		0.0000	2.5		15.0				

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

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

Lab Name: TestAmerica Tampa

Job No.: 680-90686-1

Analy B

SDG No.: 68090686-1

Instrument ID: BSMA5973

GC Column: DB-5MS

ID: 250 (um)

Heated

Calibration Start Date: 05/23/2013 12:51

Calibration End Date: 05/23/2013 14:22

Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137743/3	1AE23003.D
Level 2	IC 660-137743/4	1AE23004.D
Level 3	IC 660-137743/5	1AE23005.D
Level 4	IC 660-137743/6	1AE23006.D
Level 5	ICIS 660-137743/7	1AE23007.D
Level 6	IC 660-137743/8	1AE23008.D
Level 7	IC 660-137743/9	1AE23009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	4877 771759	27756 1280321	142169	292802	560603	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	1851 394152	11887 685933	64889	142672	294996	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	3284 501360	21767 849768	104592	197150	384376	0.200 30.0	1 50
1,1'-Biphenyl	NPT	Ave	3083 617501	22163 1069731	107964	226391	463010	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	5573 808511	29387 1340229	146419	319831	630726	0.200 30.0	1 50
Acenaphthene	ANT	Ave	3206 434674	15605 760793	77989	157029	323095	0.200 30.0	1 50
Dibenzofuran	ANT	Ave	4064 670801	24866 1198945	123824	248677	507750	0.200 30.0	1 50
Fluorene	ANT	Ave	3194 510806	17978 882399	93865	191330	396396	0.200 30.0	1 50
Phenanthrene	PHN	Ave	5425 765052	26591 1282695	125719	269043	546502	0.200 30.0	1 50
Anthracene	PHN	Ave	5333 788422	28575 1318603	133318	292299	582875	0.200 30.0	1 50
Fluoranthene	PHN	Ave	6267 1063362	31350 1609879	155397	336165	699074	0.200 30.0	1 50
Pyrene	CRY	Ave	6289 1055562	34460 1740175	161372	343849	697125	0.200 30.0	1 50
Benzo[a]anthracene	CRY	None	8331 981619	30734 1601449	146679	332493	619479	0.200 30.0	1 50
Chrysene	CRY	Ave	5440 893518	31230 1576406	155092	289372	612439	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Lin1	3327 882593	20499 1598808	104550	287554	525140	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	6331 996400	33354 1645861	175177	324503	704150	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	3998 788336	22176 1379638	117818	262575	512618	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Lin1	4280 737791	16088 1297265	95139	212302	446337	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	None	3184 710982	18412 1284475	97574	217038	443752	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	3510 690132	21227 1188762	102445	215153	465107	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	3239 490290	16581 823523	84325	181006	357347	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
None = No Calib Curve

137743

N

2980

LVL 3	LVL 4	LVL 5
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0
5.00	10.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23003.D
 Lab Smp Id: IC1
 Inj Date : 23-MAY-2013 12:51
 Operator : SCC
 Smp Info : IC1
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 12:51 Cal File: 1AE23003.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)
* 1 Naphthalene-d8	136	2.525	2.527	(1.000)	1172430	40.0000	
* 7 Acenaphthene-d10	164	3.551	3.548	(1.000)	672388	40.0000	
* 11 Phenanthrene-d10	188	4.496	4.498	(1.000)	1141618	40.0000	
\$ 15 o-Terphenyl	230	4.790	4.792	(1.065)	3239	0.20000	0.1961
* 19 Chrysene-d12	240	6.510	6.512	(1.000)	1058586	40.0000	
* 24 Perylene-d12	264	7.627	7.602	(1.000)	999377	40.0000	
2 Naphthalene	128	2.536	2.538	(1.004)	4877	0.20000	0.1837
3 2-Methylnaphthalene	141	2.942	2.938	(1.165)	1851	0.20000	0.1464
4 1-Methylnaphthalene	142	2.995	2.992	(1.186)	3284	0.20000	0.1778
5 1,1'-Biphenyl	154	3.220	3.216	(1.275)	3083	0.20000	0.1495
6 Acenaphthylene	152	3.460	3.462	(0.974)	5573	0.20000	0.1894(M)
8 Acenaphthene	154	3.567	3.569	(1.004)	3206	0.20000	0.2038
9 Dibenzofuran	168	3.674	3.670	(1.035)	4064	0.20000	0.1688
10 Fluorene	166	3.882	3.879	(1.093)	3194	0.20000	0.1749(T)
12 Phenanthrene	178	4.512	4.509	(1.004)	5425	0.20000	0.2109
13 Anthracene	178	4.544	4.546	(1.011)	5333	0.20000	0.1982(M)
16 Fluoranthene	202	5.372	5.375	(1.195)	6267	0.20000	0.1952(M)
17 Pyrene	202	5.538	5.540	(0.851)	6289	0.20000	0.1971(M)
18 Benzo(a)anthracene	228	6.510	6.502	(1.000)	8331	0.20000	0.2679
20 Chrysene	228	6.526	6.534	(1.002)	5440	0.20000	0.1925
21 Benzo(b)fluoranthene	252	7.338	7.319	(0.962)	3327	0.20000	0.1341
22 Benzo(k)fluoranthene	252	7.360	7.346	(0.965)	6331	0.20000	0.1904(M)
23 Benzo(a)pyrene	252	7.573	7.549	(0.993)	3998	0.20000	0.1639
25 Indeno(1,2,3-cd)pyrene	276	8.385	8.355	(1.099)	4280	0.20000	0.1996(M)
26 Dibenzo(a,h)anthracene	278	8.412	8.377	(1.103)	3184	0.20000	0.1521(T)
27 Benzo(g,h,i)perylene	276	8.594	8.569	(1.127)	3510	0.20000	0.1636(M)

QC Flag Legend

T - Target compound detected outside RT window.
 M - Compound response manually integrated.

Data File: 1AE23003.D

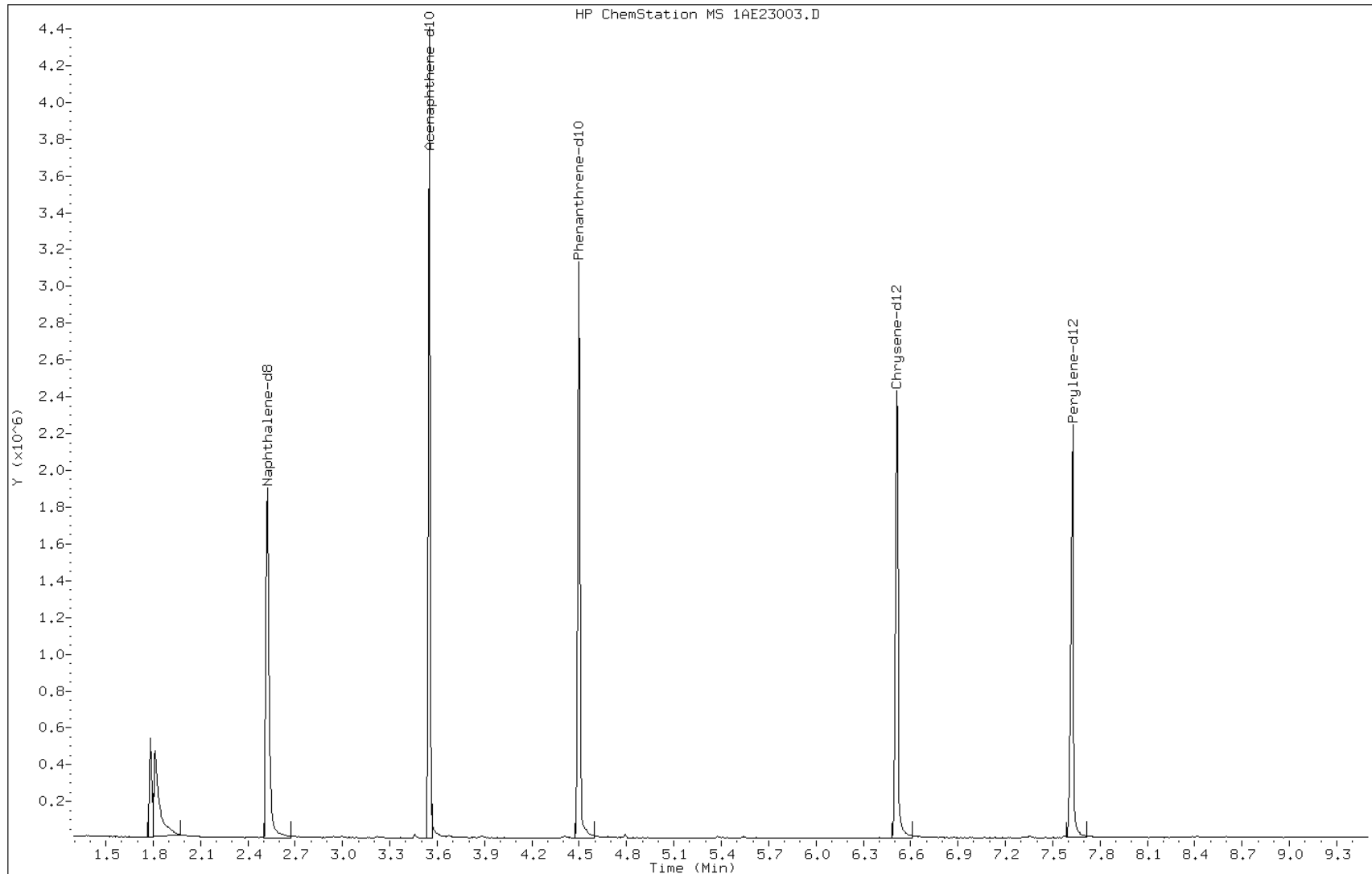
Date: 23-MAY-2013 12:51

Client ID:

Instrument: BSMA5973.i

Sample Info: IC1

Operator: SCC

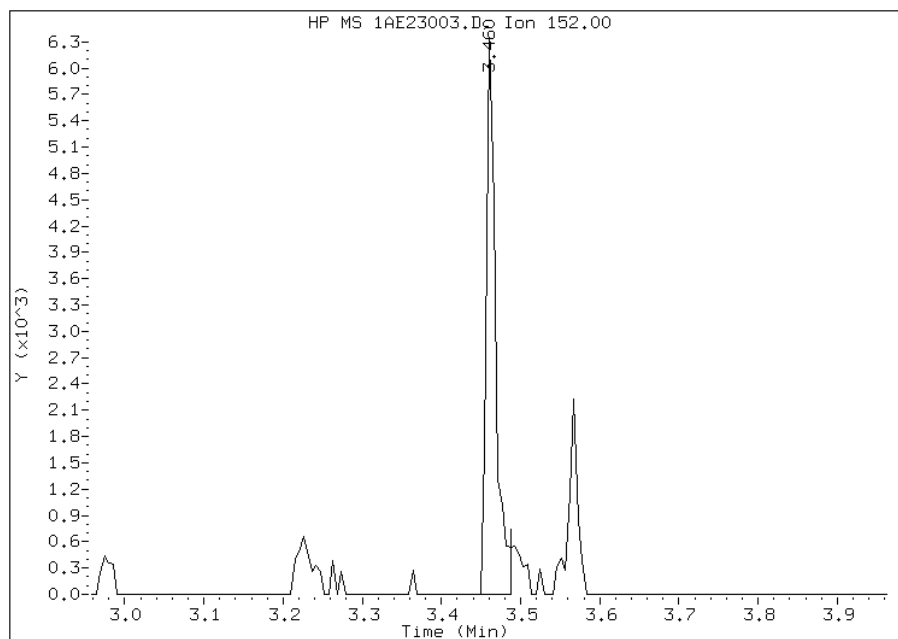


Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

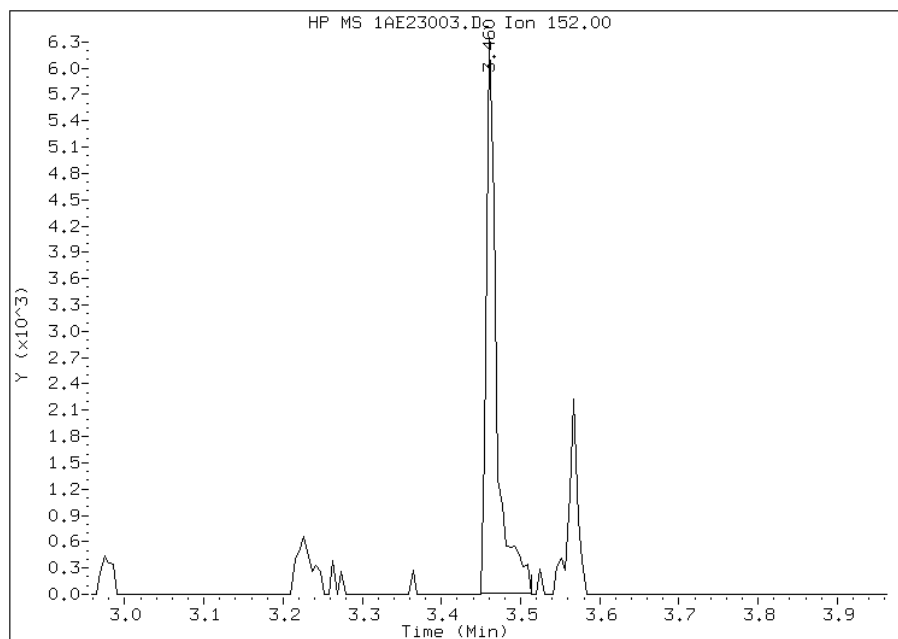
Processing Integration Results

RT: 3.46
Response: 5070
Amount: 0
Conc: 0



Manual Integration Results

RT: 3.46
Response: 5573
Amount: 0
Conc: 0



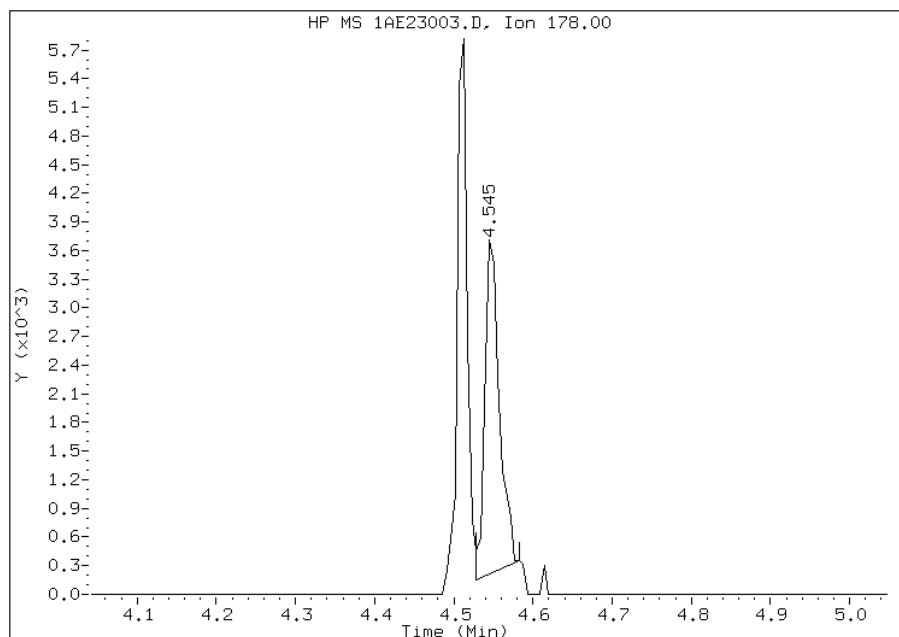
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 05/23/2013

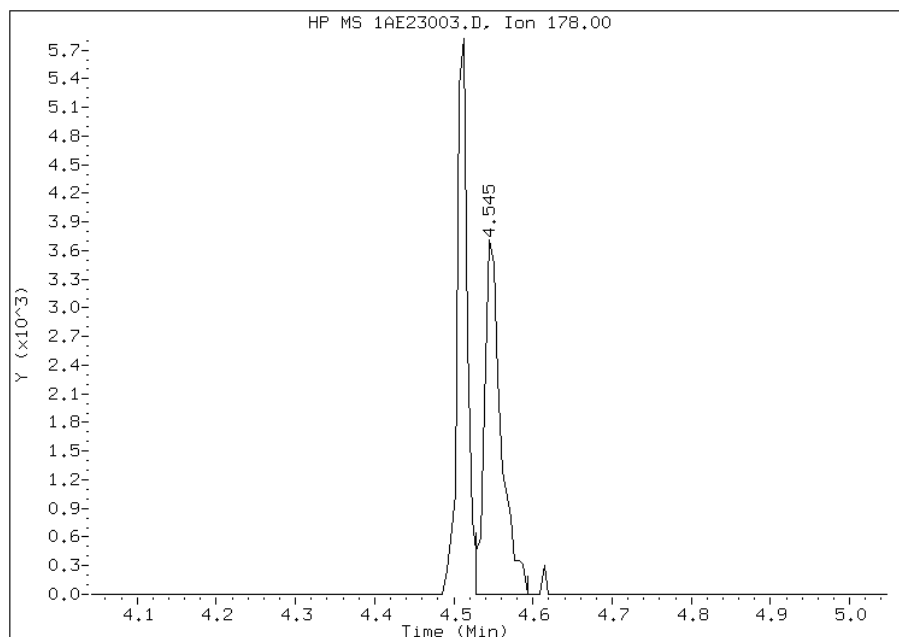
Processing Integration Results

RT: 4.54
Response: 4355
Amount: 0
Conc: 0



Manual Integration Results

RT: 4.54
Response: 5333
Amount: 0
Conc: 0



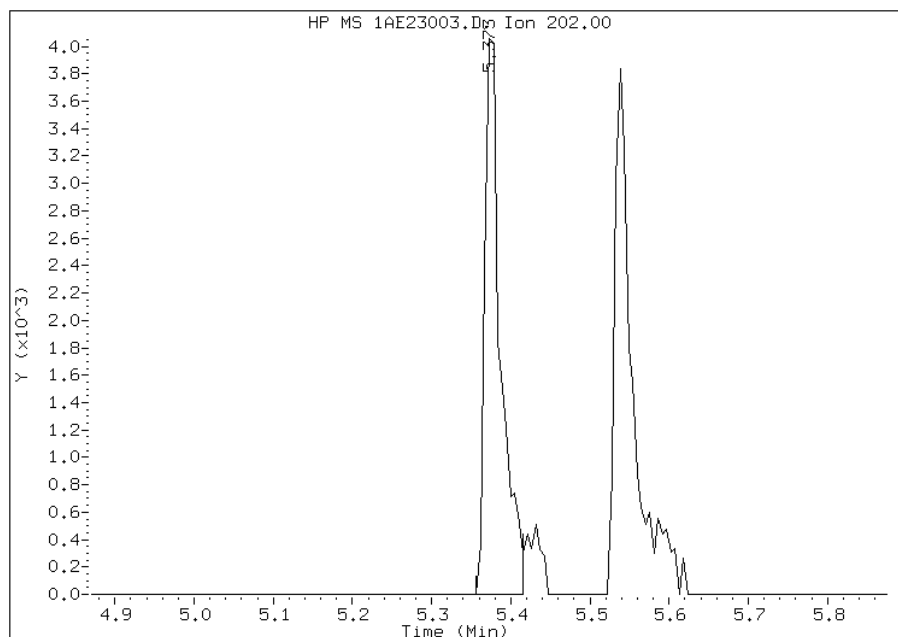
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

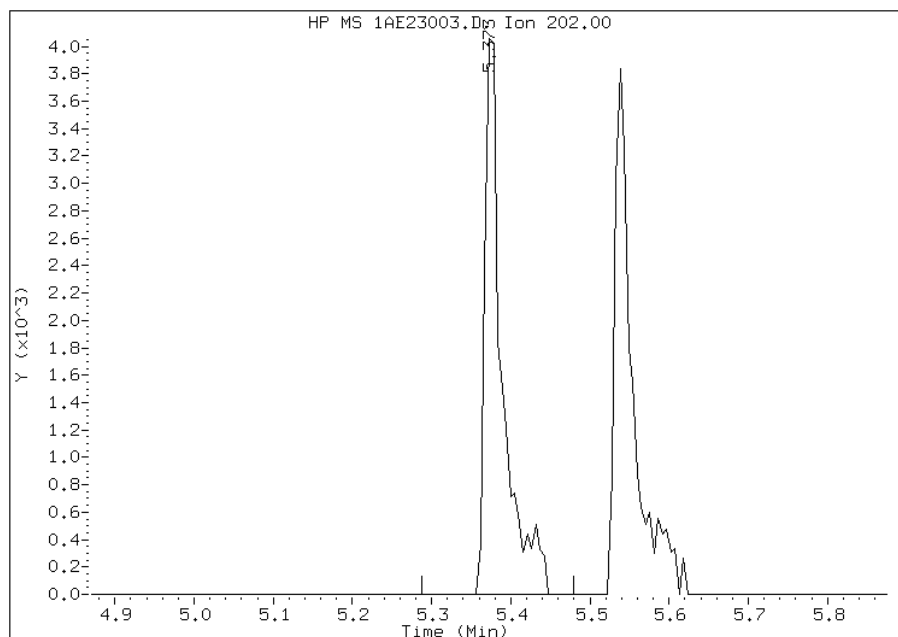
Processing Integration Results

RT: 5.37
Response: 5662
Amount: 0
Conc: 0



Manual Integration Results

RT: 5.37
Response: 6267
Amount: 0
Conc: 0



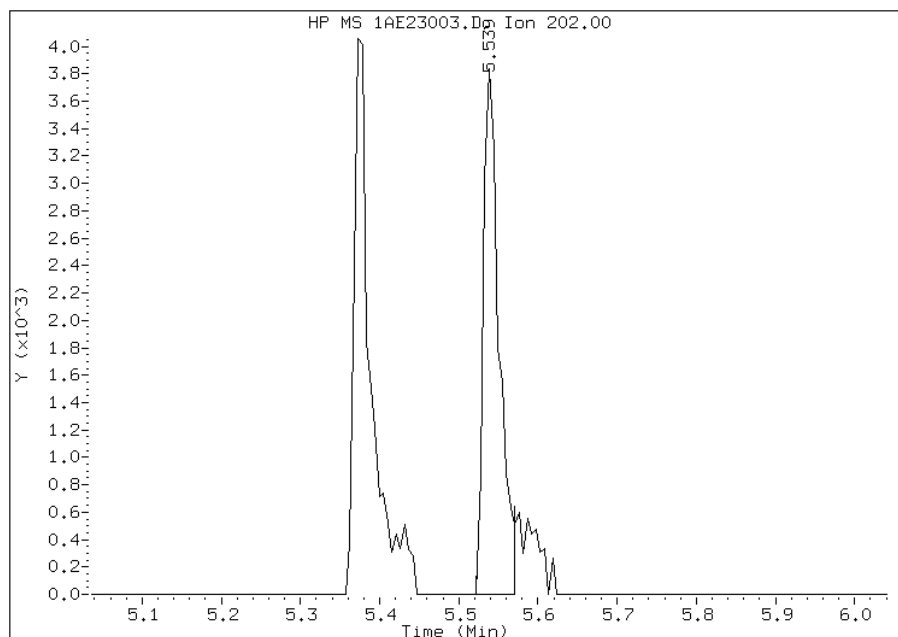
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

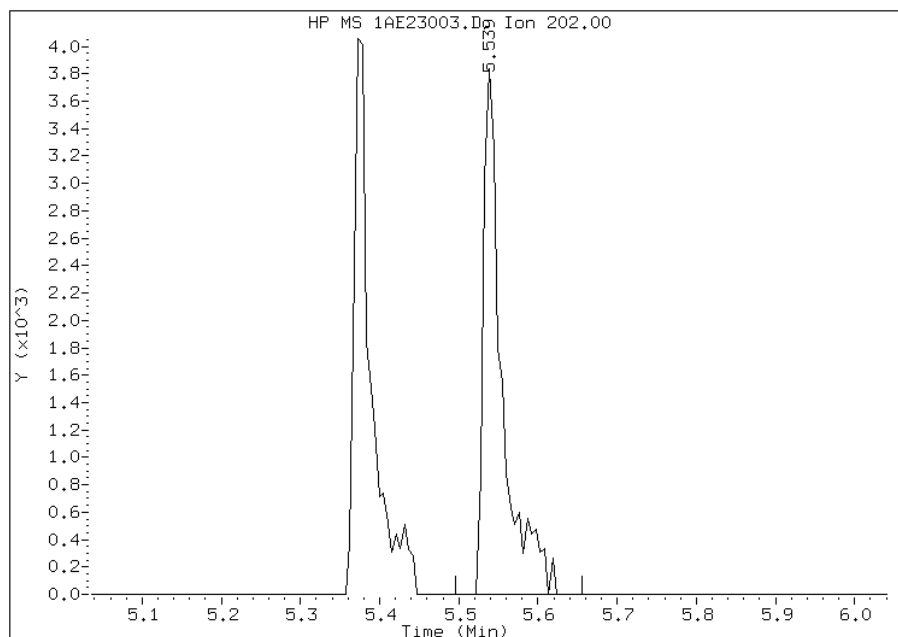
Processing Integration Results

RT: 5.54
Response: 5241
Amount: 0
Conc: 0



Manual Integration Results

RT: 5.54
Response: 6289
Amount: 0
Conc: 0



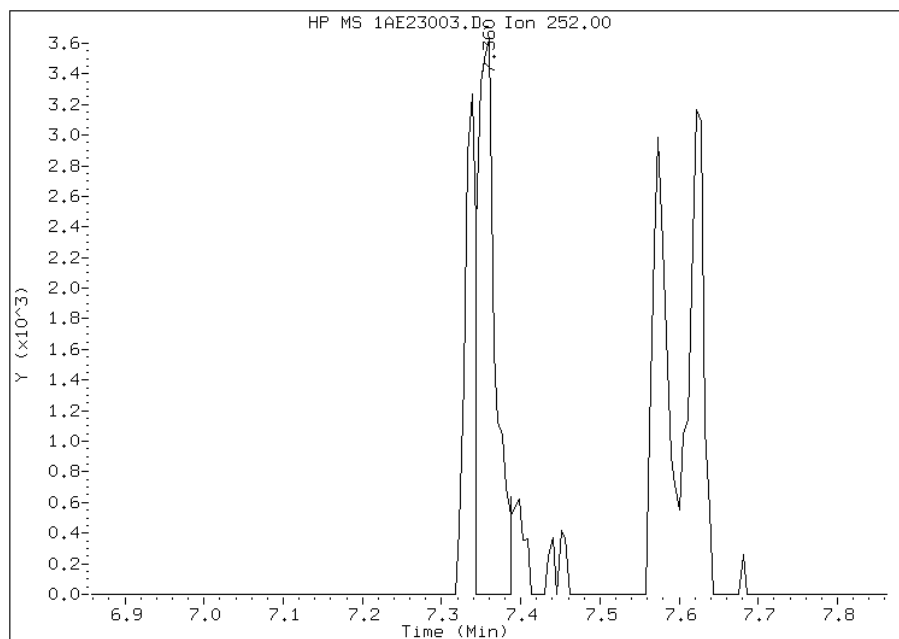
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

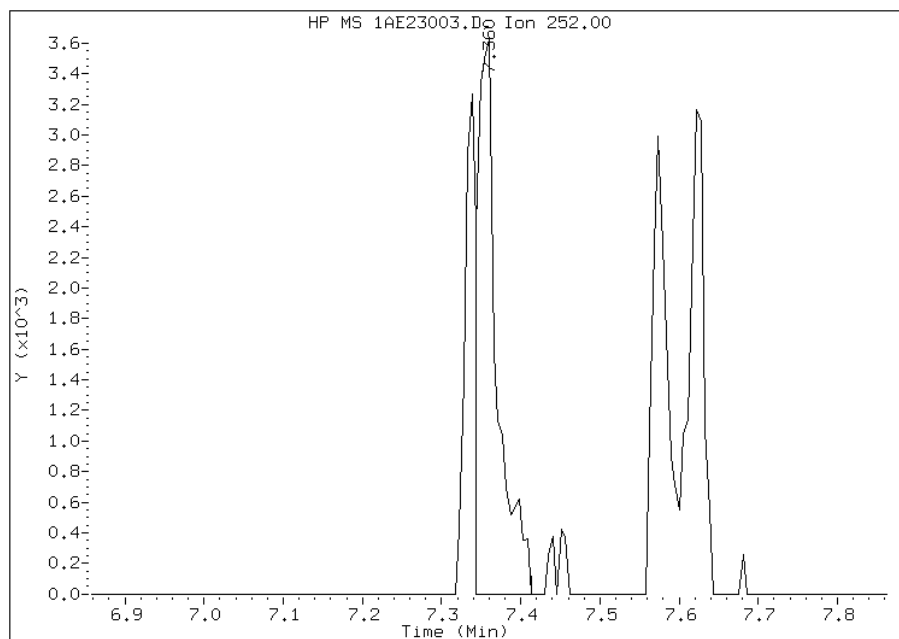
Processing Integration Results

RT: 7.36
Response: 5716
Amount: 0
Conc: 0



Manual Integration Results

RT: 7.36
Response: 6331
Amount: 0
Conc: 0



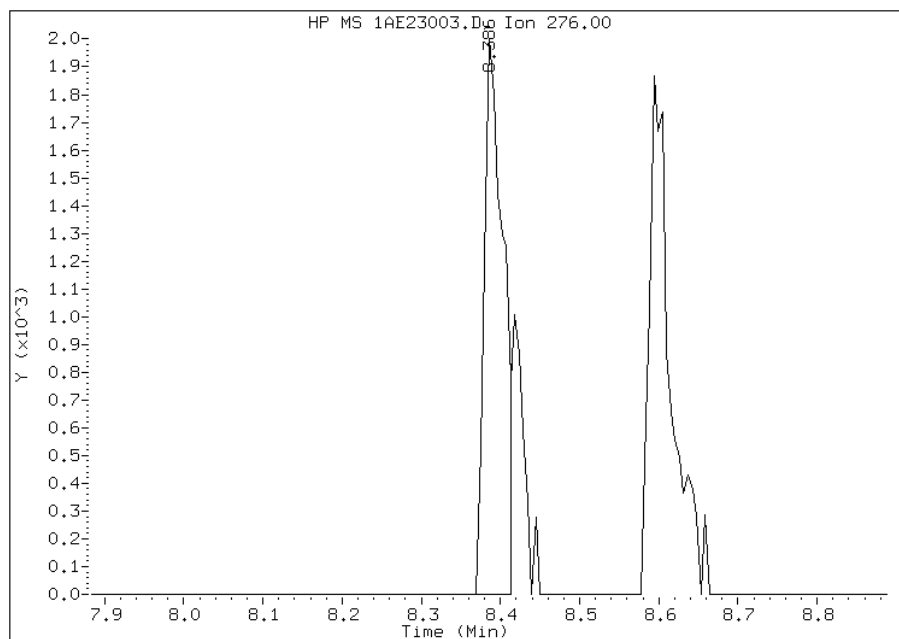
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

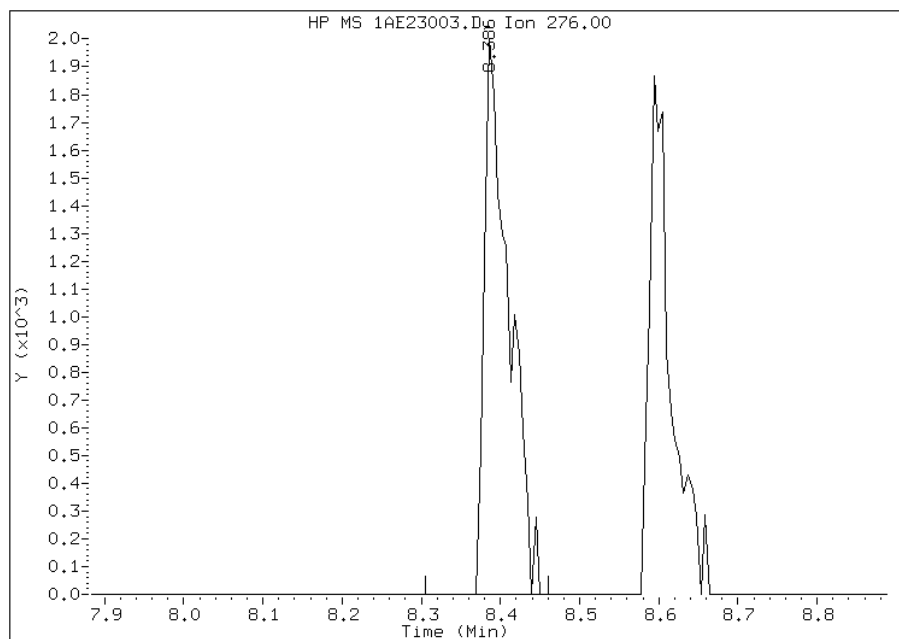
Processing Integration Results

RT: 8.39
Response: 3294
Amount: 0
Conc: 0



Manual Integration Results

RT: 8.39
Response: 4280
Amount: 0
Conc: 0



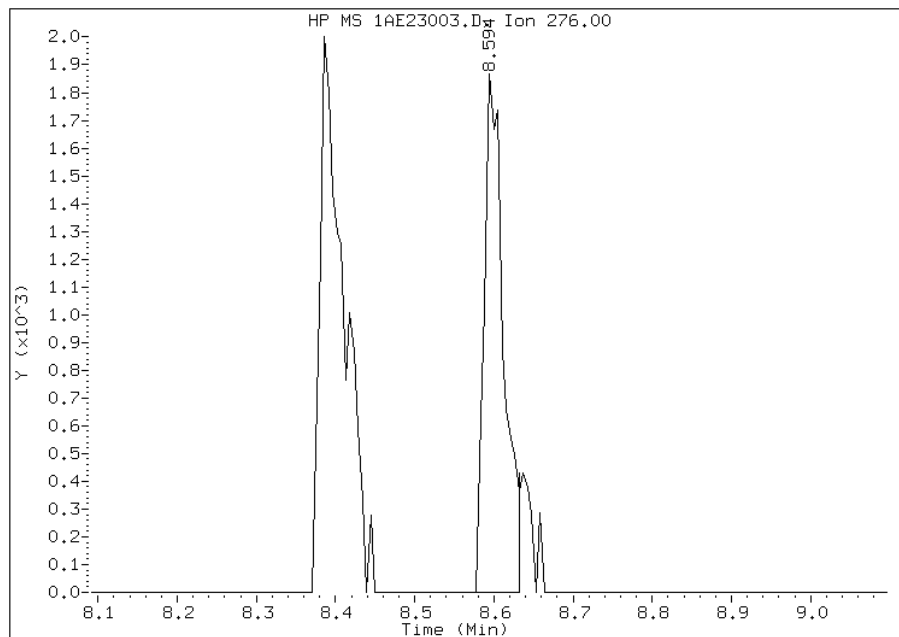
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23003.D
Inj. Date and Time: 23-MAY-2013 12:51
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

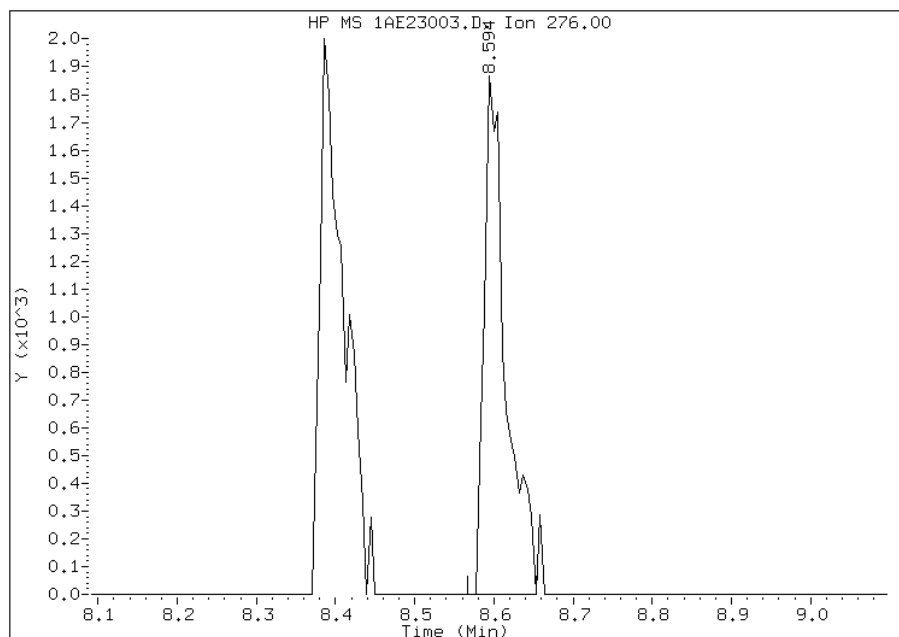
Processing Integration Results

RT: 8.59
Response: 3162
Amount: 0
Conc: 0



Manual Integration Results

RT: 8.59
Response: 3510
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:24
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23004.D
 Lab Smp Id: IC2
 Inj Date : 23-MAY-2013 13:06
 Operator : SCC
 Smp Info : IC2
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 12:51 Cal File: 1AE23003.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	2.523	2.527	(1.000)	1212395	40.0000	
* 7 Acenaphthene-d10	164	3.548	3.548	(1.000)	671595	40.0000	
* 11 Phenanthrene-d10	188	4.494	4.498	(1.000)	1176446	40.0000	
\$ 15 o-Terphenyl	230	4.788	4.792	(1.065)	16581	1.00000	0.9744
* 19 Chrysene-d12	240	6.508	6.512	(1.000)	1102097	40.0000	
* 24 Perylene-d12	264	7.598	7.602	(1.000)	1018779	40.0000	
2 Naphthalene	128	2.533	2.538	(1.004)	27756	1.00000	1.0111(M)
3 2-Methylnaphthalene	141	2.939	2.938	(1.165)	11887	1.00000	0.9094
4 1-Methylnaphthalene	142	2.993	2.992	(1.186)	21767	1.00000	1.1402(M)
5 1,1'-Biphenyl	154	3.217	3.216	(1.275)	22163	1.00000	1.0393(M)
6 Acenaphthylene	152	3.457	3.462	(0.974)	29387	1.00000	1.0000(M)
8 Acenaphthene	154	3.564	3.569	(1.004)	15605	1.00000	0.9935
9 Dibenzofuran	168	3.671	3.670	(1.035)	24866	1.00000	1.0341(M)
10 Fluorene	166	3.879	3.879	(1.093)	17978	1.00000	0.9860(M)
12 Phenanthrene	178	4.504	4.509	(1.002)	26591	1.00000	1.0035(M)
13 Anthracene	178	4.542	4.546	(1.011)	28575	1.00000	1.0309(M)
16 Fluoranthene	202	5.370	5.375	(1.195)	31350	1.00000	0.9476(M)
17 Pyrene	202	5.535	5.540	(0.851)	34460	1.00000	1.0376(M)
18 Benzo(a)anthracene	228	6.502	6.502	(0.999)	30734	1.00000	0.9493
20 Chrysene	228	6.524	6.534	(1.002)	31230	1.00000	1.0615(M)
21 Benzo(b)fluoranthene	252	7.314	7.319	(0.963)	20499	1.00000	0.8109
22 Benzo(k)fluoranthene	252	7.336	7.346	(0.966)	33354	1.00000	0.9840(M)
23 Benzo(a)pyrene	252	7.544	7.549	(0.993)	22176	1.00000	0.8923
25 Indeno(1,2,3-cd)pyrene	276	8.345	8.355	(1.098)	16088	1.00000	0.7362(M)
26 Dibenzo(a,h)anthracene	278	8.367	8.377	(1.101)	18412	1.00000	0.8631(M)
27 Benzo(g,h,i)perylene	276	8.554	8.569	(1.126)	21227	1.00000	0.9710(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23004.D

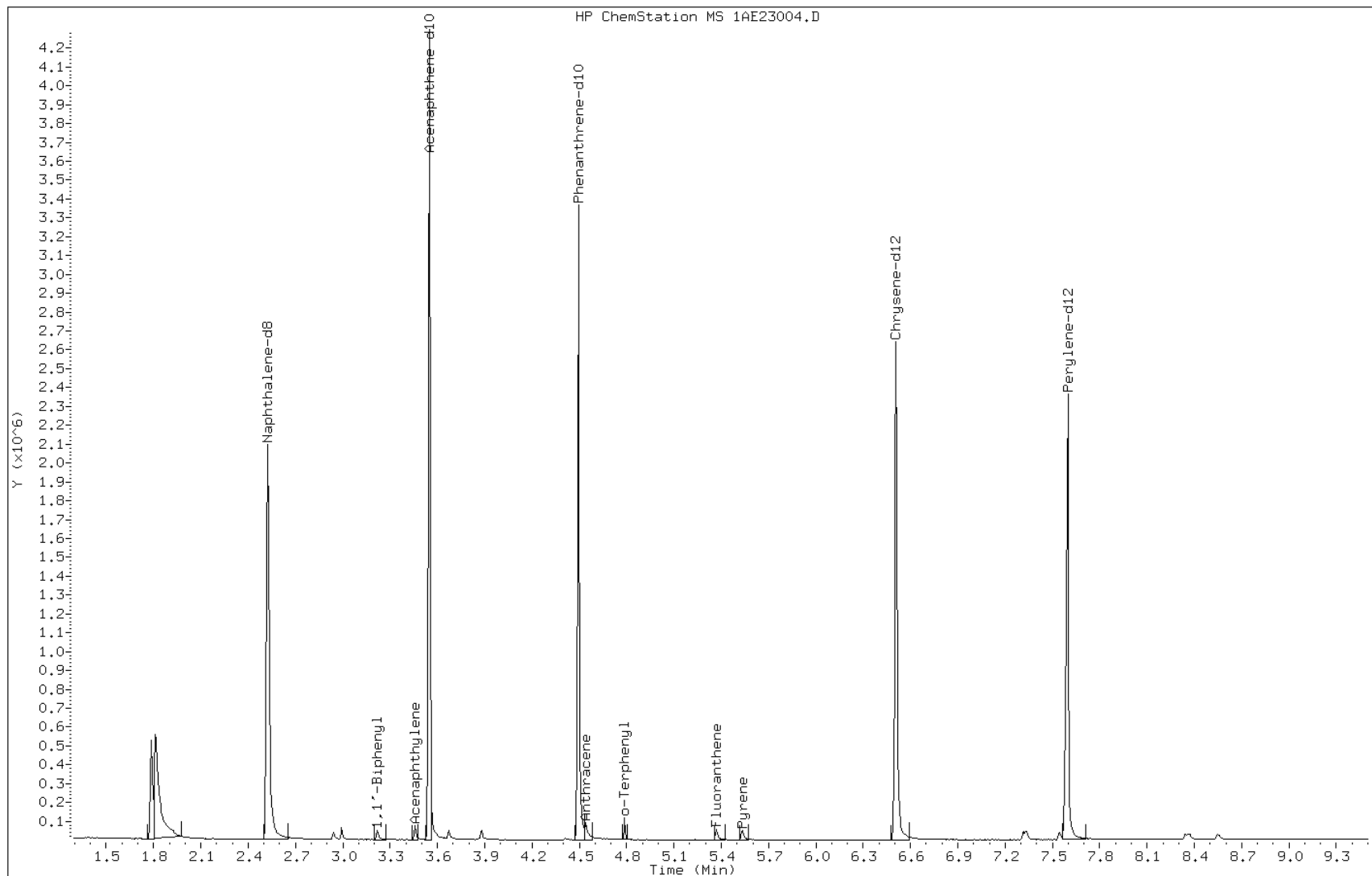
Date: 23-MAY-2013 13:06

Client ID:

Instrument: BSMA5973.i

Sample Info: IC2

Operator: SCC

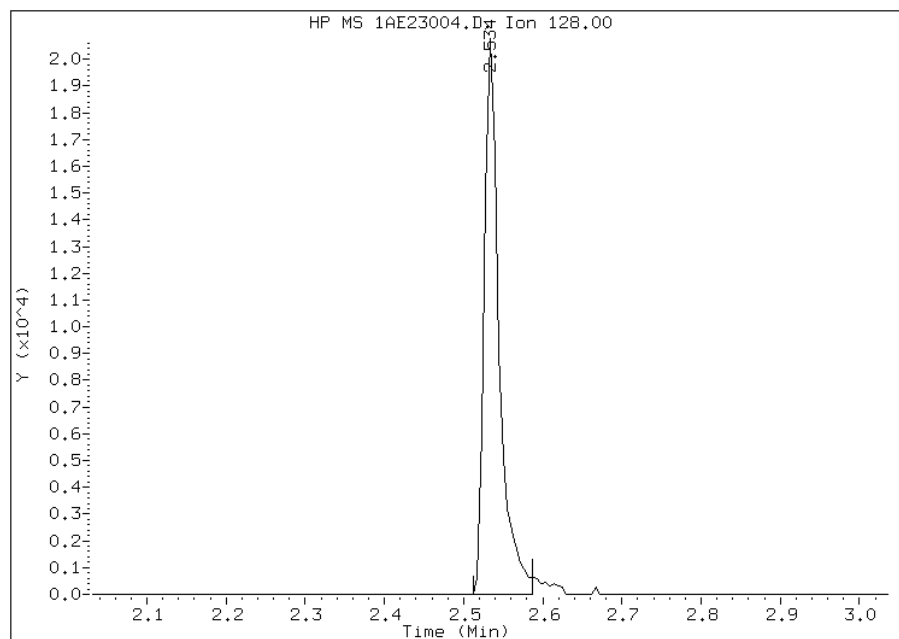


Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/23/2013

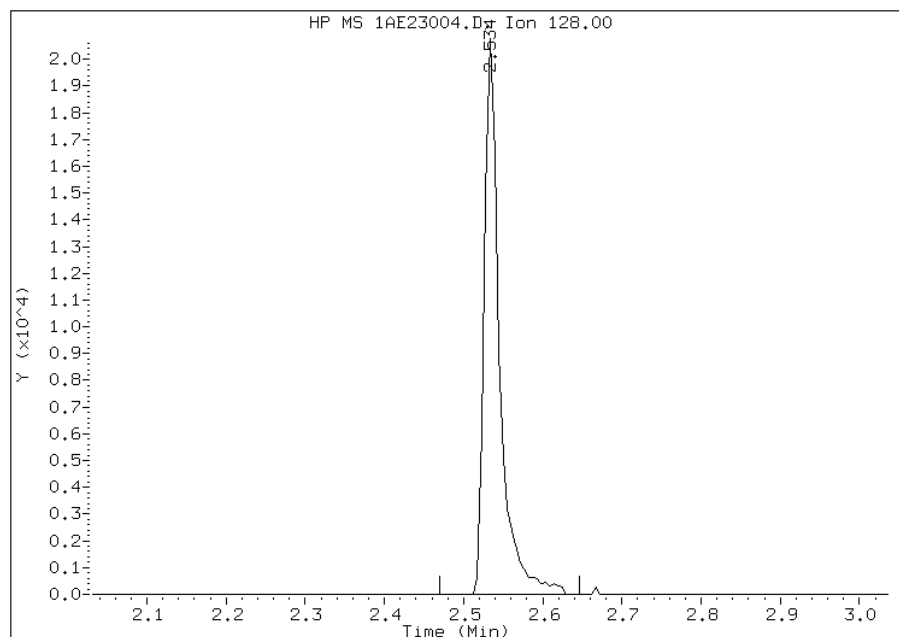
Processing Integration Results

RT: 2.53
Response: 26870
Amount: 1
Conc: 1



Manual Integration Results

RT: 2.53
Response: 27756
Amount: 1
Conc: 1



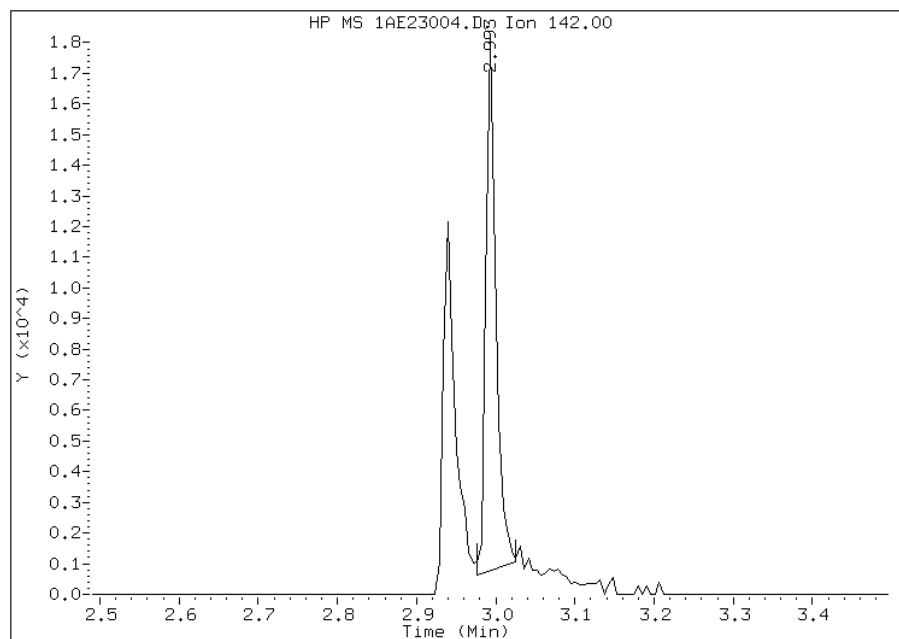
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/23/2013

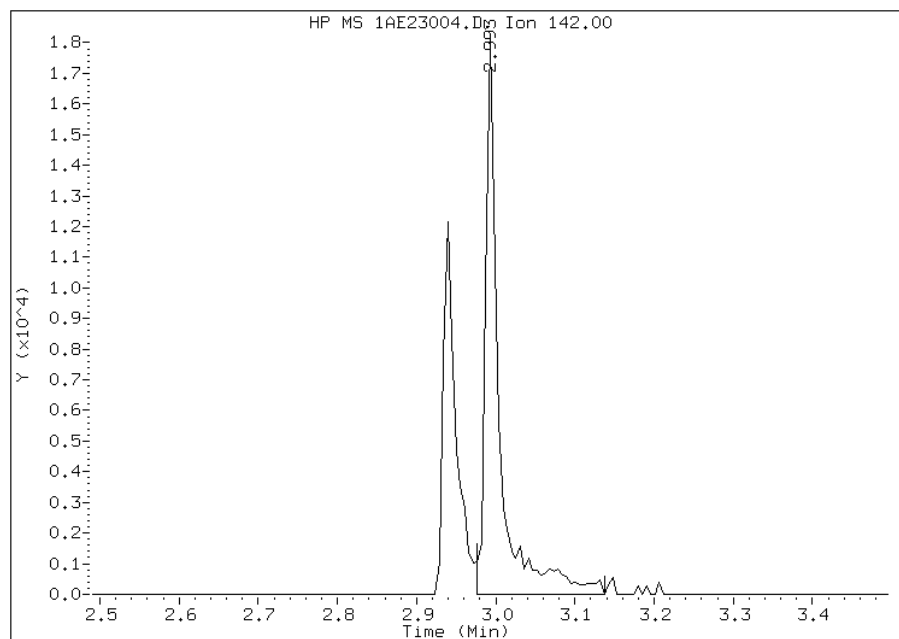
Processing Integration Results

RT: 2.99
Response: 14888
Amount: 1
Conc: 1



Manual Integration Results

RT: 2.99
Response: 21767
Amount: 1
Conc: 1



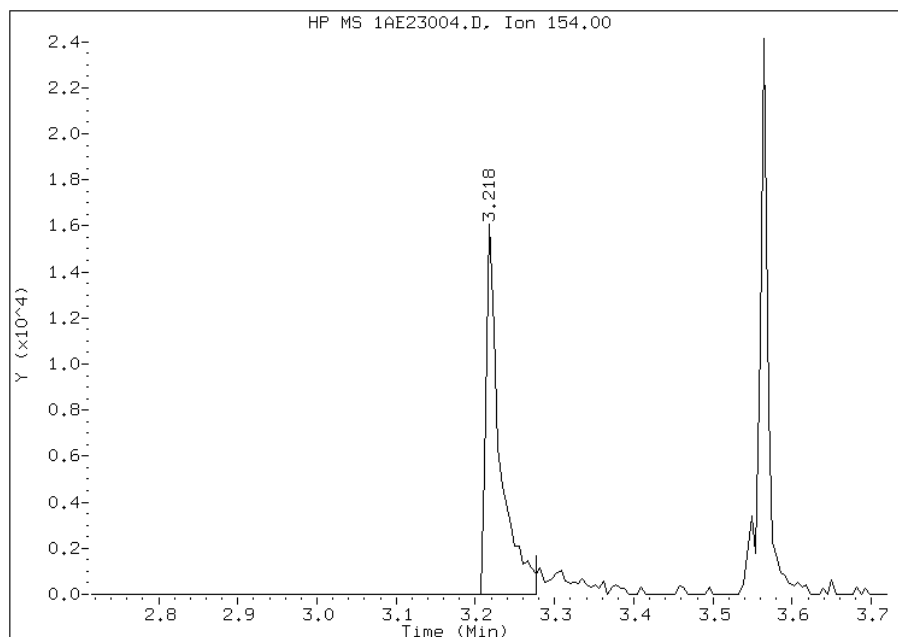
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 05/23/2013

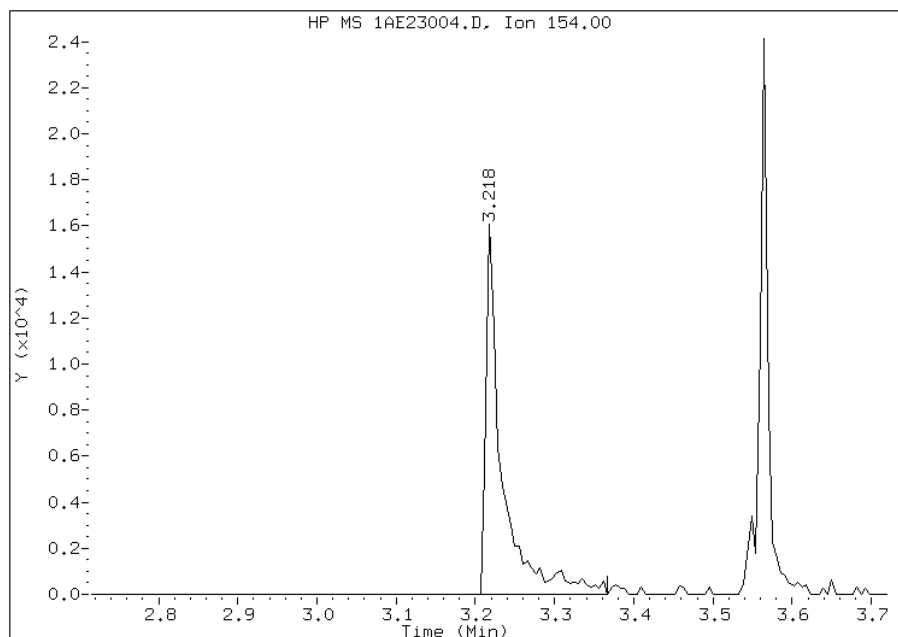
Processing Integration Results

RT: 3.22
Response: 19272
Amount: 1
Conc: 1



Manual Integration Results

RT: 3.22
Response: 22163
Amount: 1
Conc: 1



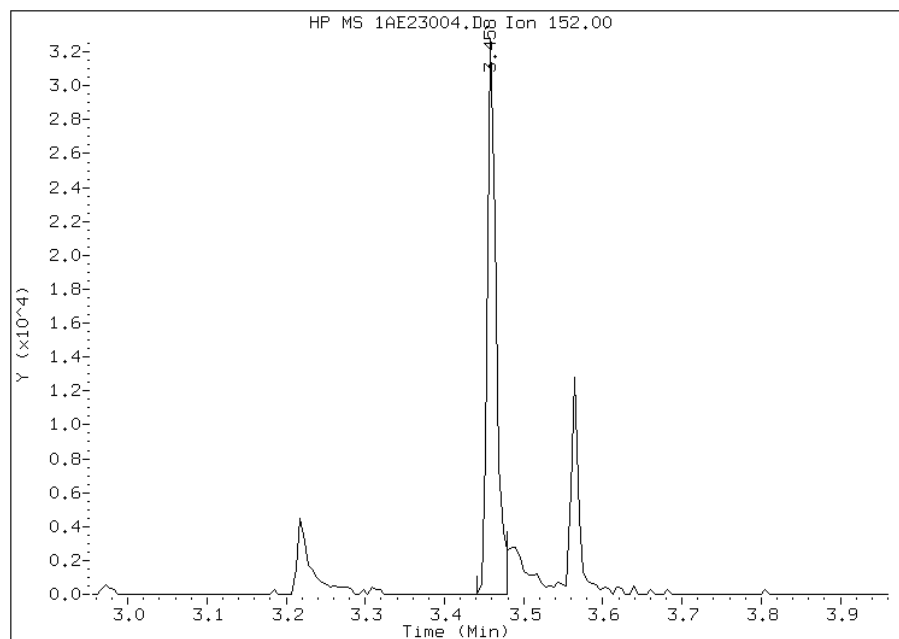
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

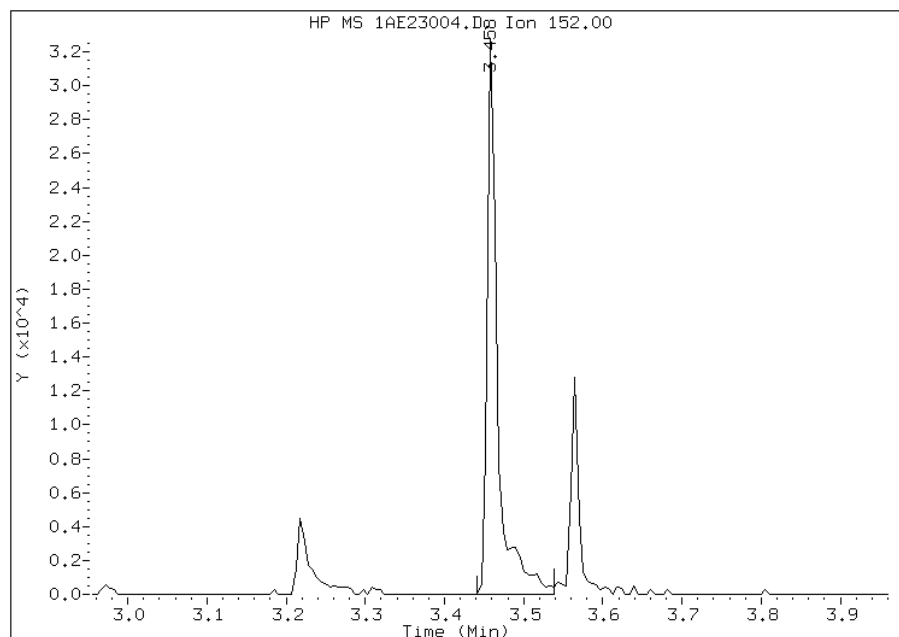
Processing Integration Results

RT: 3.46
Response: 24809
Amount: 1
Conc: 1



Manual Integration Results

RT: 3.46
Response: 29387
Amount: 1
Conc: 1



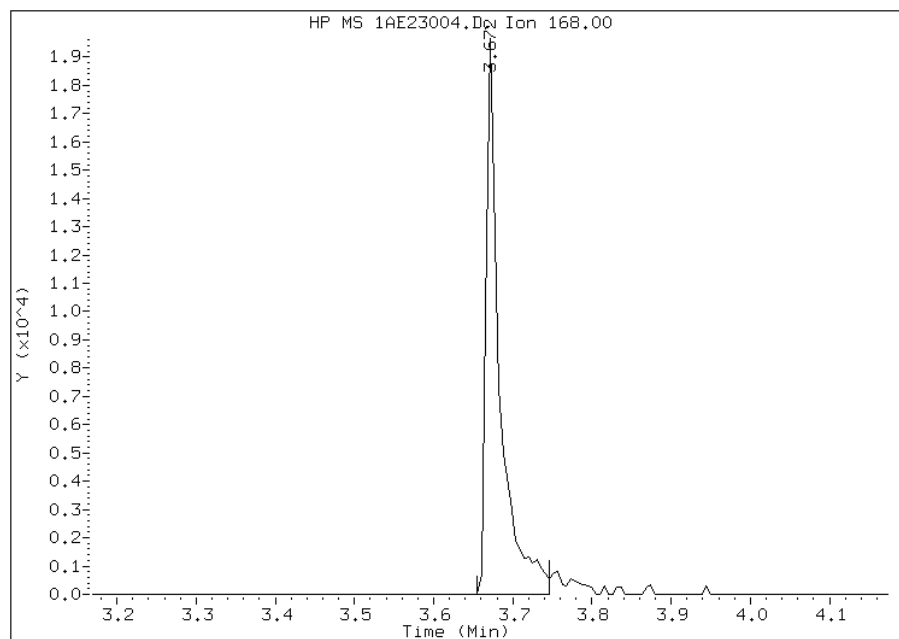
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

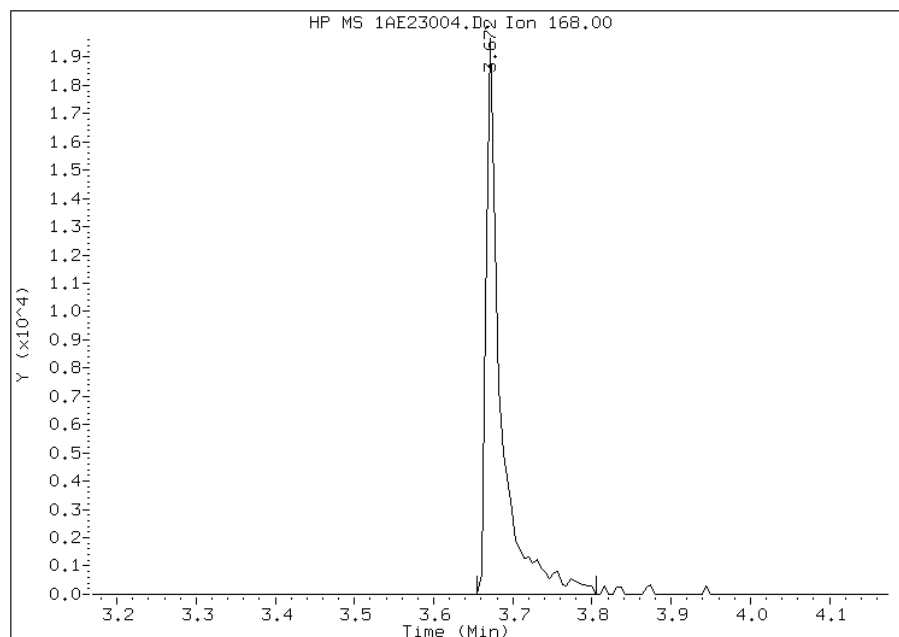
Processing Integration Results

RT: 3.67
Response: 23376
Amount: 1
Conc: 1



Manual Integration Results

RT: 3.67
Response: 24866
Amount: 1
Conc: 1



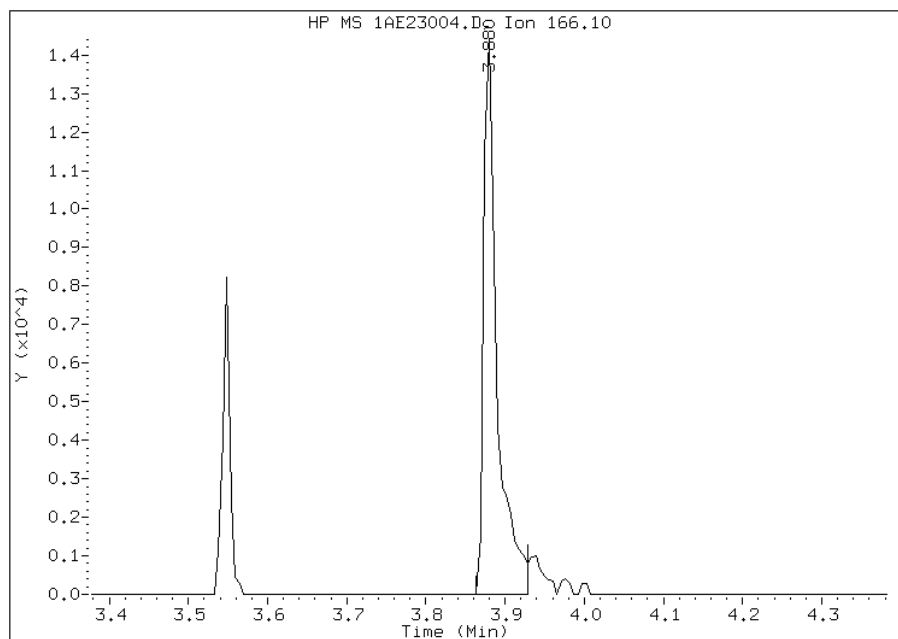
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 05/23/2013

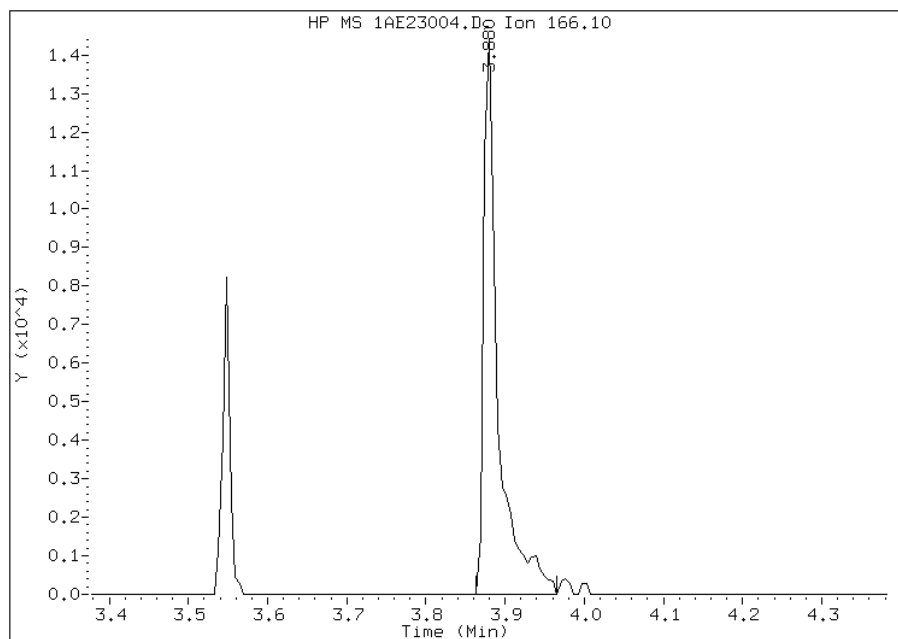
Processing Integration Results

RT: 3.88
Response: 16774
Amount: 1
Conc: 1



Manual Integration Results

RT: 3.88
Response: 17978
Amount: 1
Conc: 1



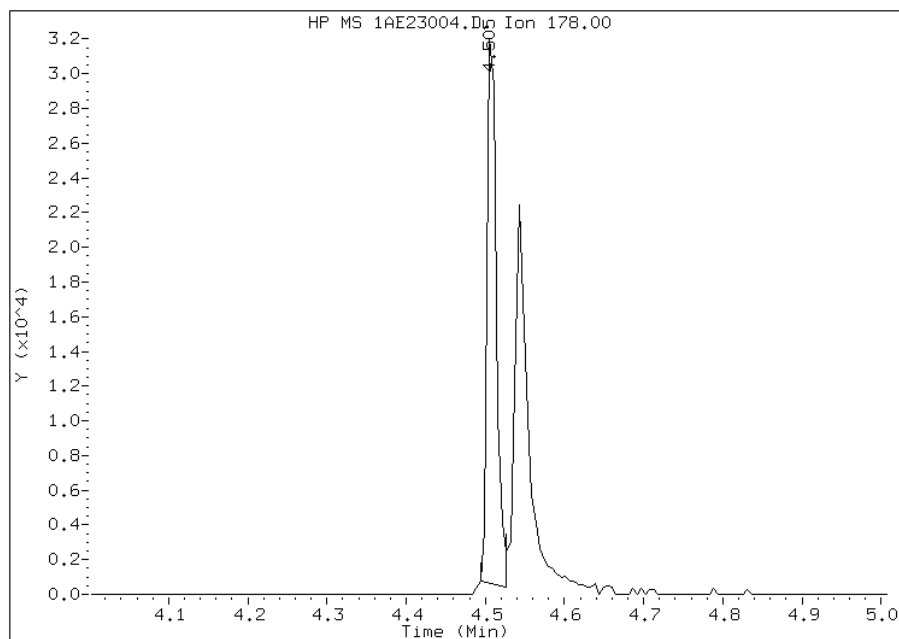
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 12 Phenanthrene
CAS #: 85-01-8
Report Date: 05/23/2013

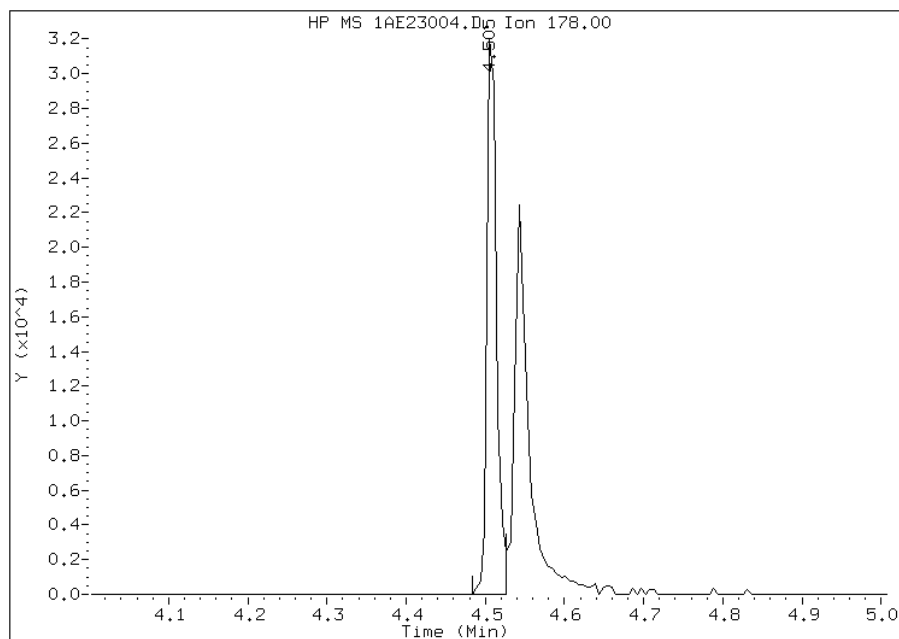
Processing Integration Results

RT: 4.50
Response: 25207
Amount: 1
Conc: 1



Manual Integration Results

RT: 4.50
Response: 26591
Amount: 1
Conc: 1



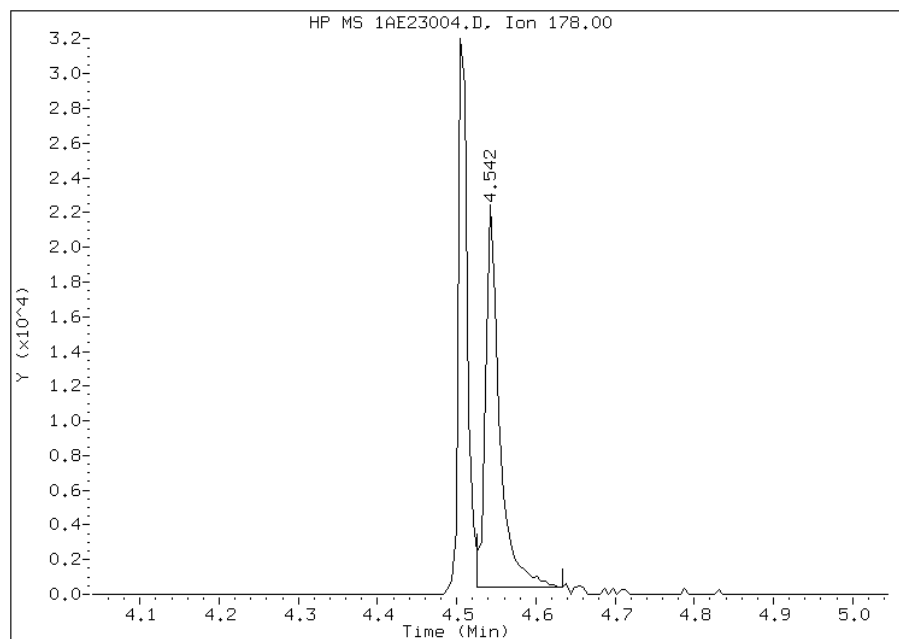
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Anthracene
CAS #: 120-12-7
Report Date: 05/23/2013

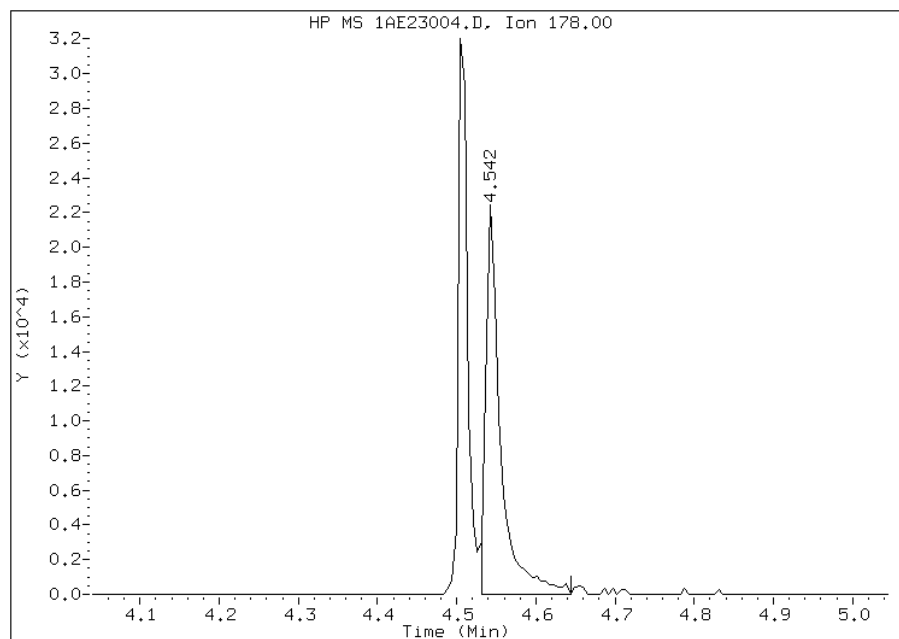
Processing Integration Results

RT: 4.54
Response: 26411
Amount: 1
Conc: 1



Manual Integration Results

RT: 4.54
Response: 28575
Amount: 1
Conc: 1



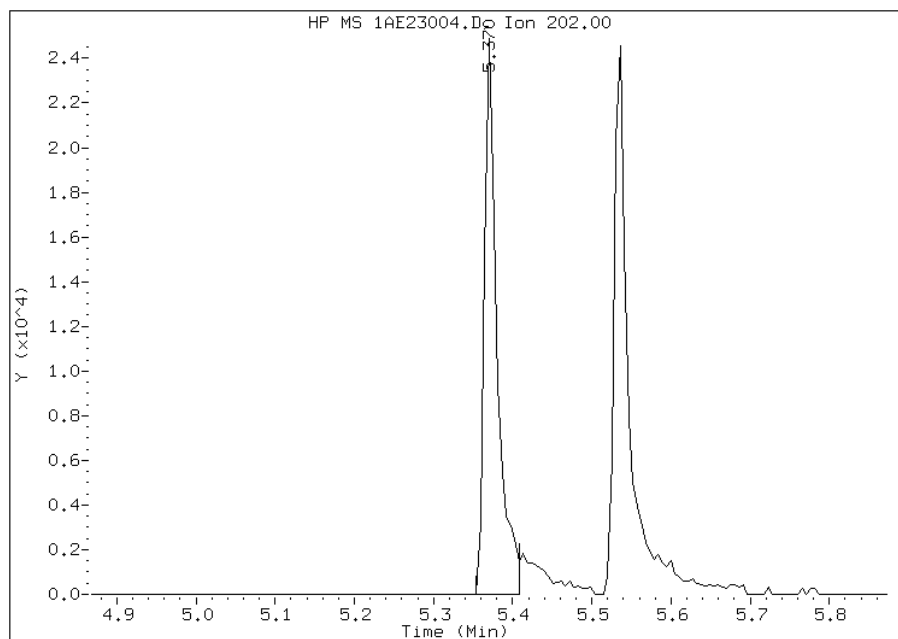
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

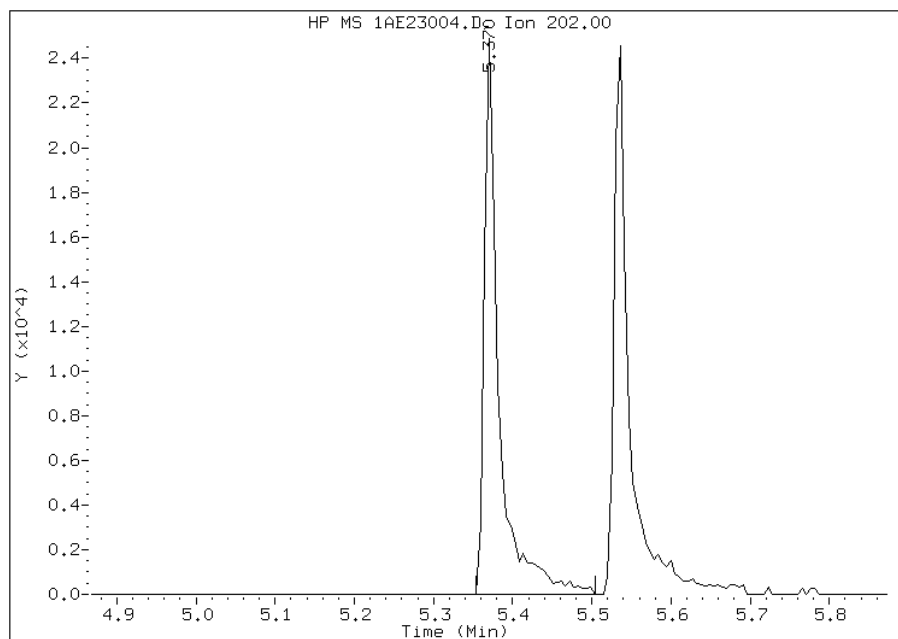
Processing Integration Results

RT: 5.37
Response: 27332
Amount: 1
Conc: 1



Manual Integration Results

RT: 5.37
Response: 31350
Amount: 1
Conc: 1



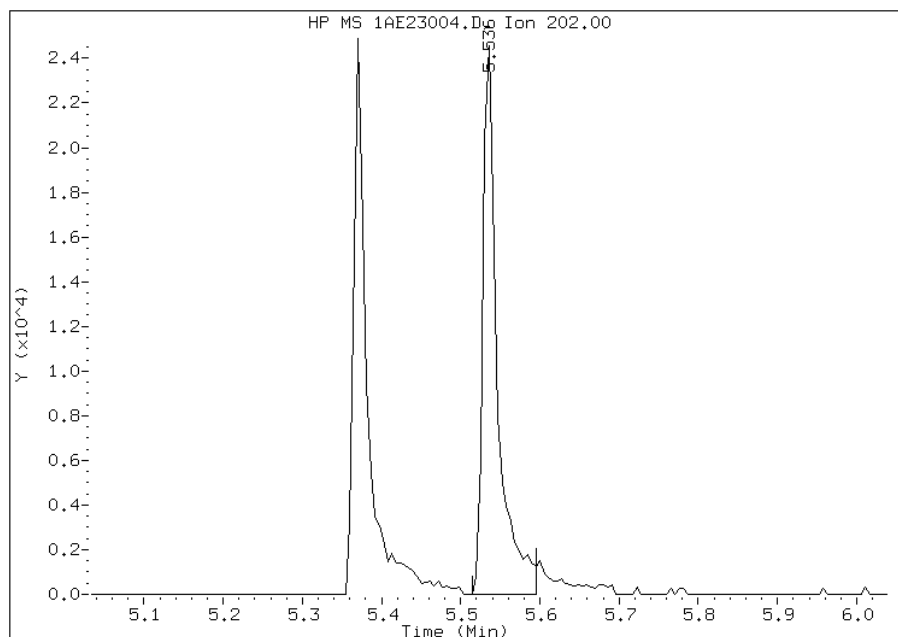
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

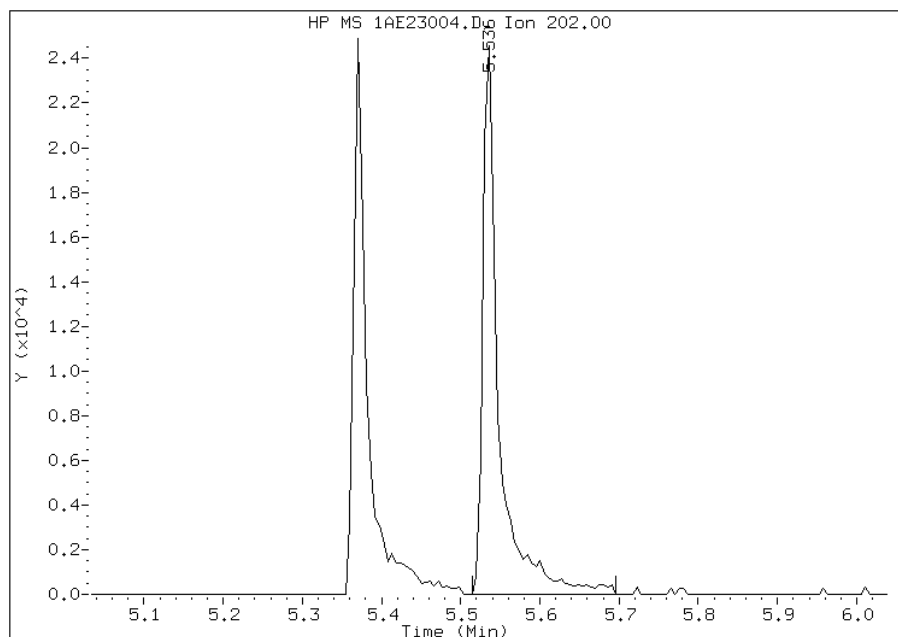
Processing Integration Results

RT: 5.54
Response: 31281
Amount: 1
Conc: 1



Manual Integration Results

RT: 5.54
Response: 34460
Amount: 1
Conc: 1



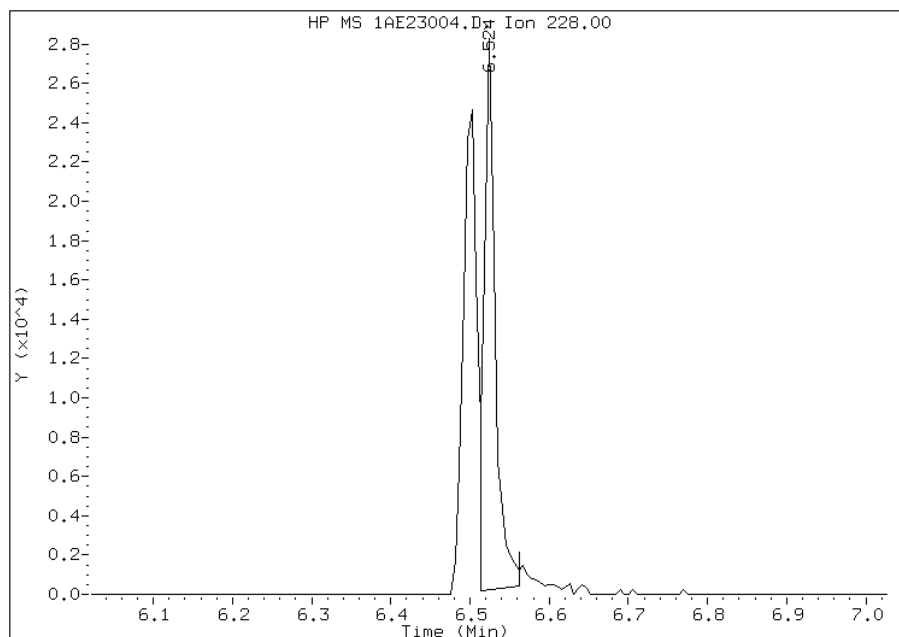
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

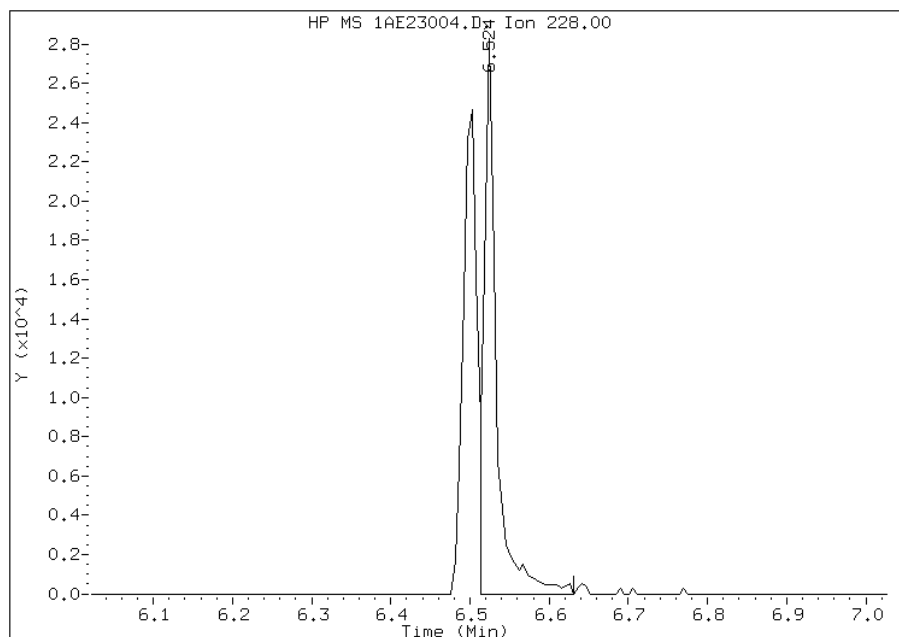
Processing Integration Results

RT: 6.52
Response: 27512
Amount: 1
Conc: 1



Manual Integration Results

RT: 6.52
Response: 31230
Amount: 1
Conc: 1



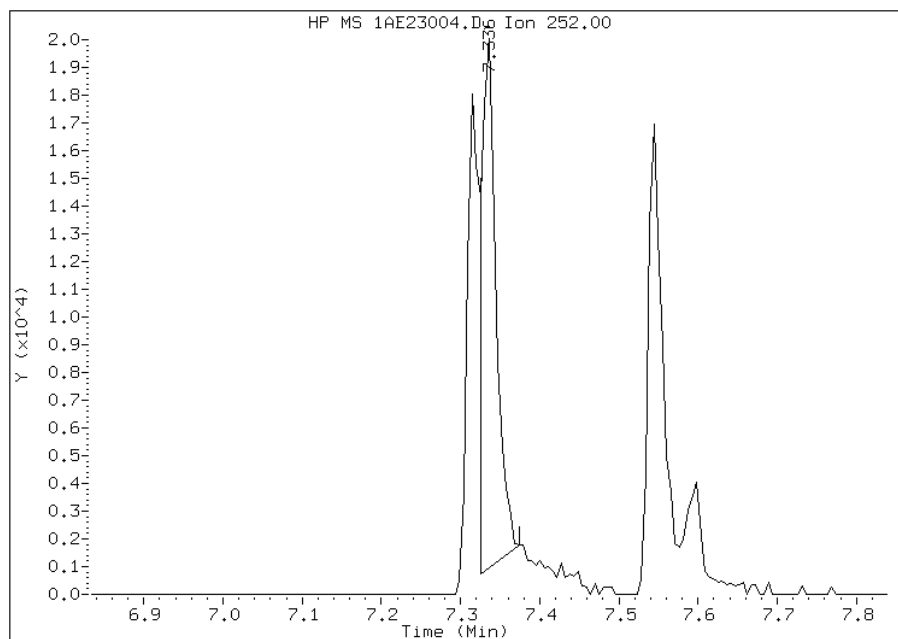
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

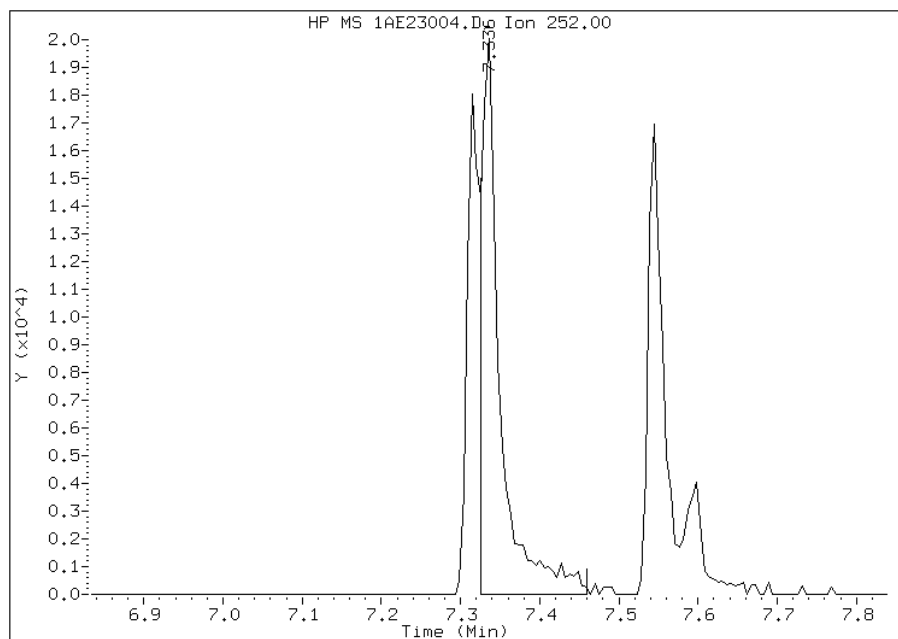
Processing Integration Results

RT: 7.34
Response: 24696
Amount: 1
Conc: 1



Manual Integration Results

RT: 7.34
Response: 33354
Amount: 1
Conc: 1



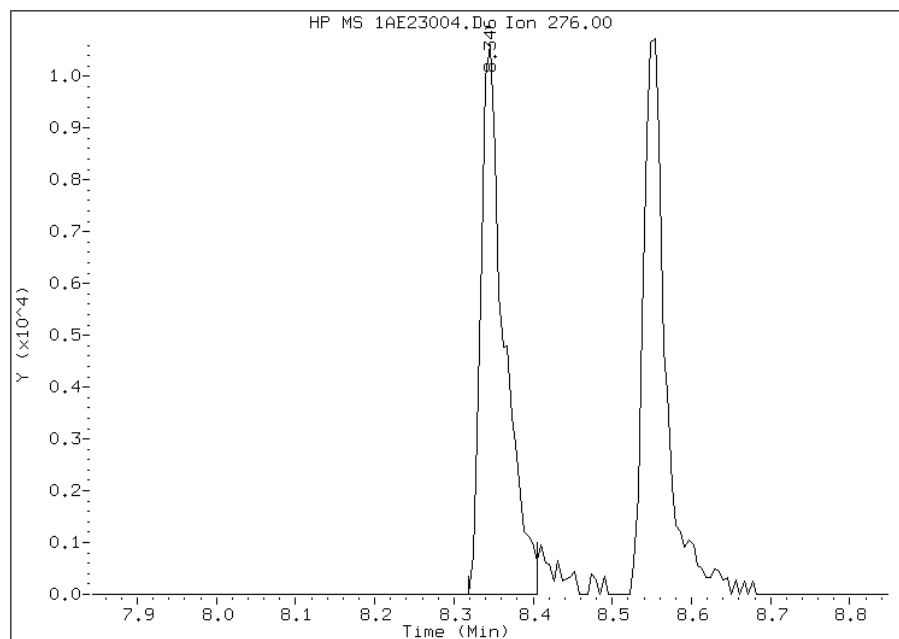
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

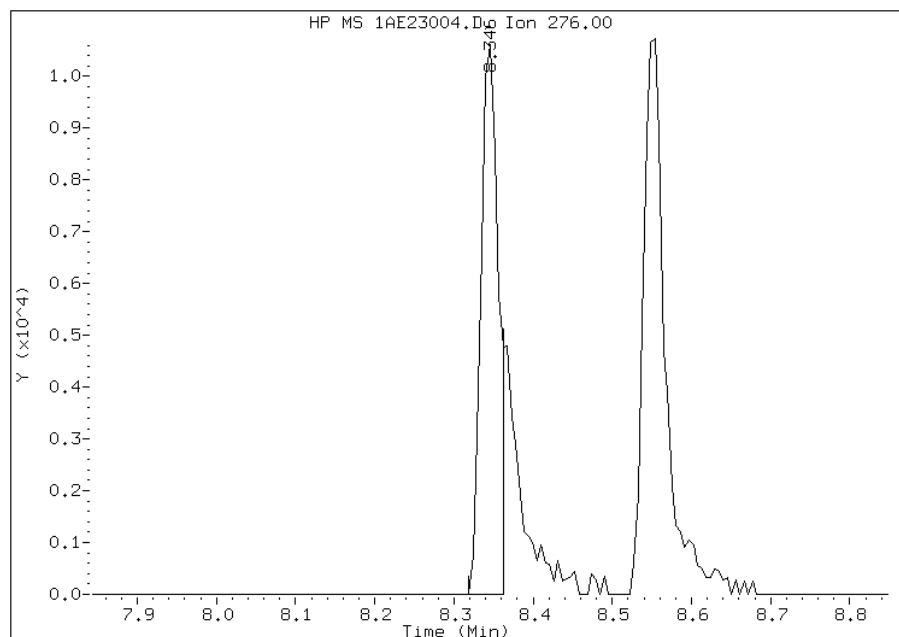
Processing Integration Results

RT: 8.35
Response: 21543
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.35
Response: 16088
Amount: 1
Conc: 1



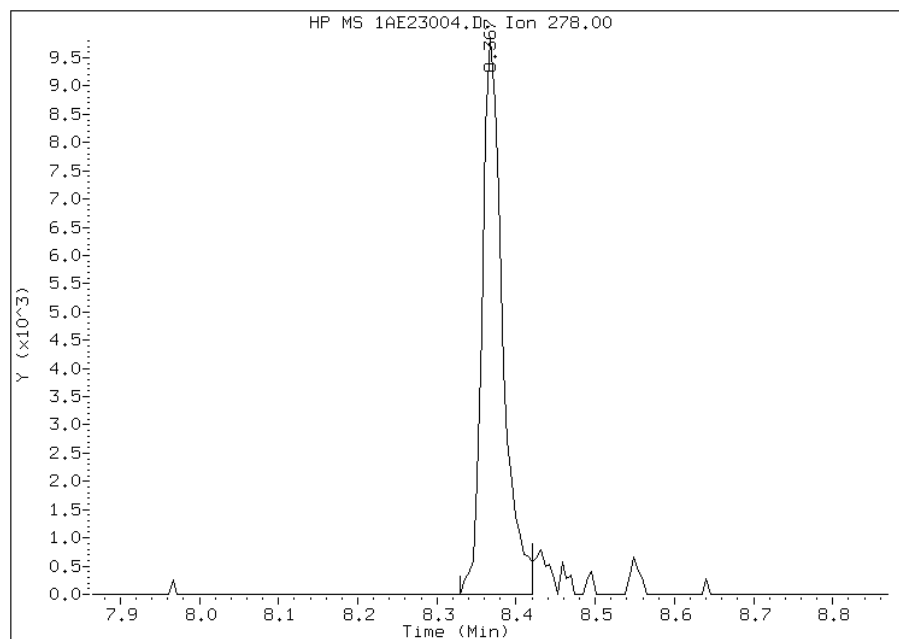
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

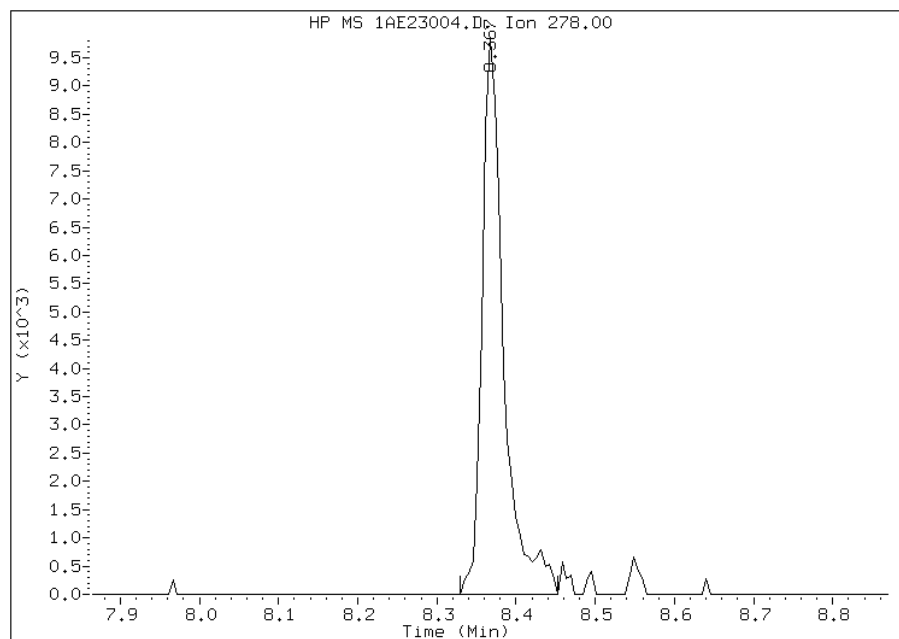
Processing Integration Results

RT: 8.37
Response: 17592
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.37
Response: 18412
Amount: 1
Conc: 1



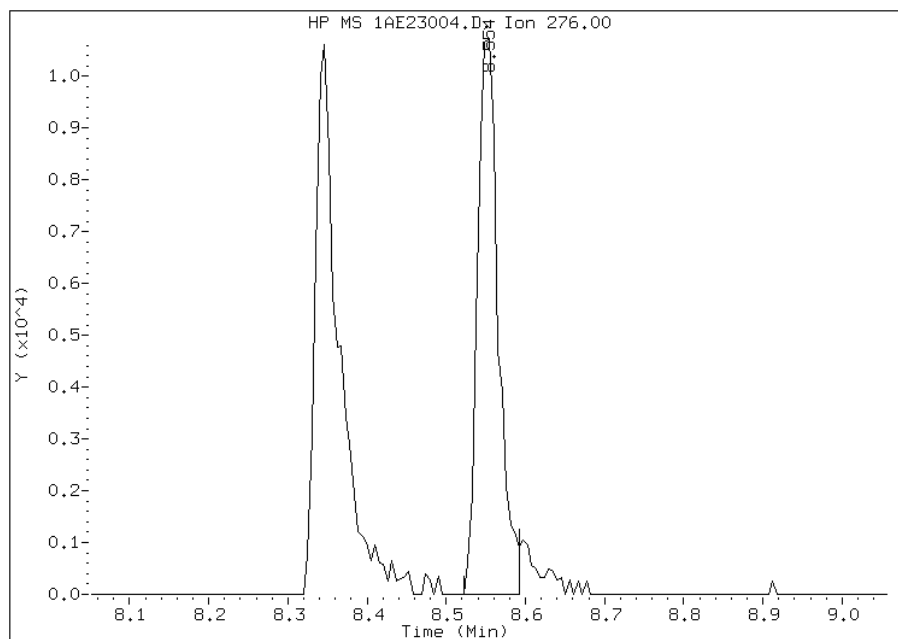
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23004.D
Inj. Date and Time: 23-MAY-2013 13:06
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

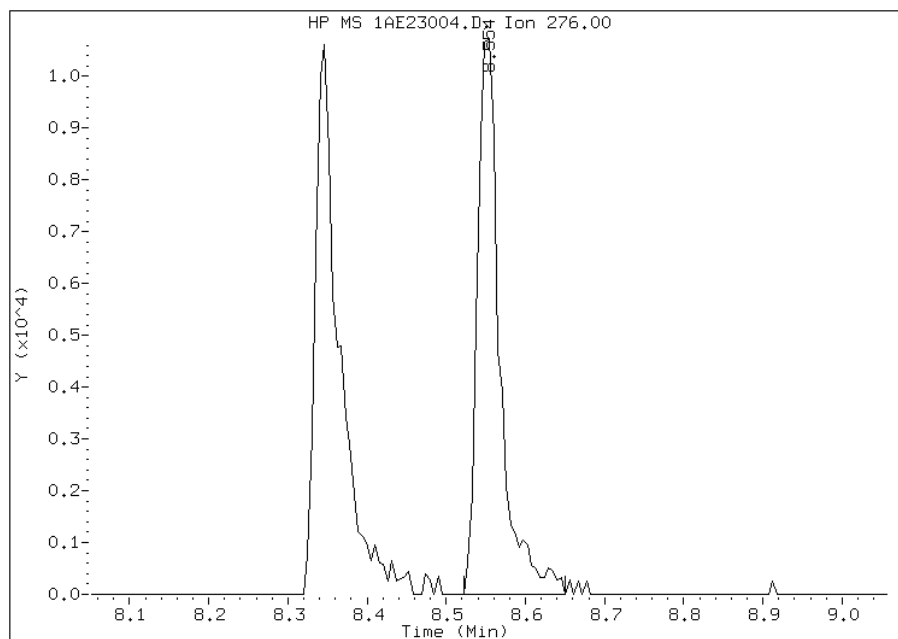
Processing Integration Results

RT: 8.55
Response: 19538
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.55
Response: 21227
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:15
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23005.D
 Lab Smp Id: IC3
 Inj Date : 23-MAY-2013 13:21
 Operator : SCC
 Smp Info : IC3
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:06 Cal File: 1AE23004.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	2.523	2.527	(1.000)	1231679	40.0000	
* 7 Acenaphthene-d10	164	3.549	3.548	(1.000)	706937	40.0000	
* 11 Phenanthrene-d10	188	4.495	4.498	(1.000)	1195663	40.0000	
\$ 15 o-Terphenyl	230	4.789	4.792	(1.065)	84325	5.00000	4.8761
* 19 Chrysene-d12	240	6.509	6.512	(1.000)	1145173	40.0000	
* 24 Perylene-d12	264	7.593	7.602	(1.000)	986574	40.0000	
2 Naphthalene	128	2.534	2.538	(1.004)	142169	5.00000	5.0981(M)
3 2-Methylnaphthalene	141	2.940	2.938	(1.165)	64889	5.00000	4.8870
4 1-Methylnaphthalene	142	2.994	2.992	(1.186)	104592	5.00000	5.3930(M)
5 1,1'-Biphenyl	154	3.218	3.216	(1.275)	107964	5.00000	4.9836(M)
6 Acenaphthylene	152	3.458	3.462	(0.974)	146419	5.00000	4.7336(M)
8 Acenaphthene	154	3.565	3.569	(1.005)	77989	5.00000	4.7173
9 Dibenzofuran	168	3.672	3.670	(1.035)	123824	5.00000	4.8921(M)
10 Fluorene	166	3.875	3.879	(1.092)	93865	5.00000	4.8907(M)
12 Phenanthrene	178	4.505	4.509	(1.002)	125719	5.00000	4.6686
13 Anthracene	178	4.543	4.546	(1.011)	133318	5.00000	4.7324
16 Fluoranthene	202	5.371	5.375	(1.195)	155397	5.00000	4.6219(M)
17 Pyrene	202	5.531	5.540	(0.850)	161372	5.00000	4.6764
18 Benzo(a)anthracene	228	6.503	6.502	(0.999)	146679	5.00000	4.3603
20 Chrysene	228	6.525	6.534	(1.002)	155092	5.00000	5.0732(M)
21 Benzo(b)fluoranthene	252	7.315	7.319	(0.963)	104550	5.00000	4.2709
22 Benzo(k)fluoranthene	252	7.331	7.346	(0.966)	175177	5.00000	5.3368(M)
23 Benzo(a)pyrene	252	7.540	7.549	(0.993)	117818	5.00000	4.8955(M)
25 Indeno(1,2,3-cd)pyrene	276	8.330	8.355	(1.097)	95139	5.00000	4.4961(M)
26 Dibenzo(a,h)anthracene	278	8.357	8.377	(1.101)	97574	5.00000	4.7234(M)
27 Benzo(g,h,i)perylene	276	8.539	8.569	(1.125)	102445	5.00000	4.8393(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23005.D

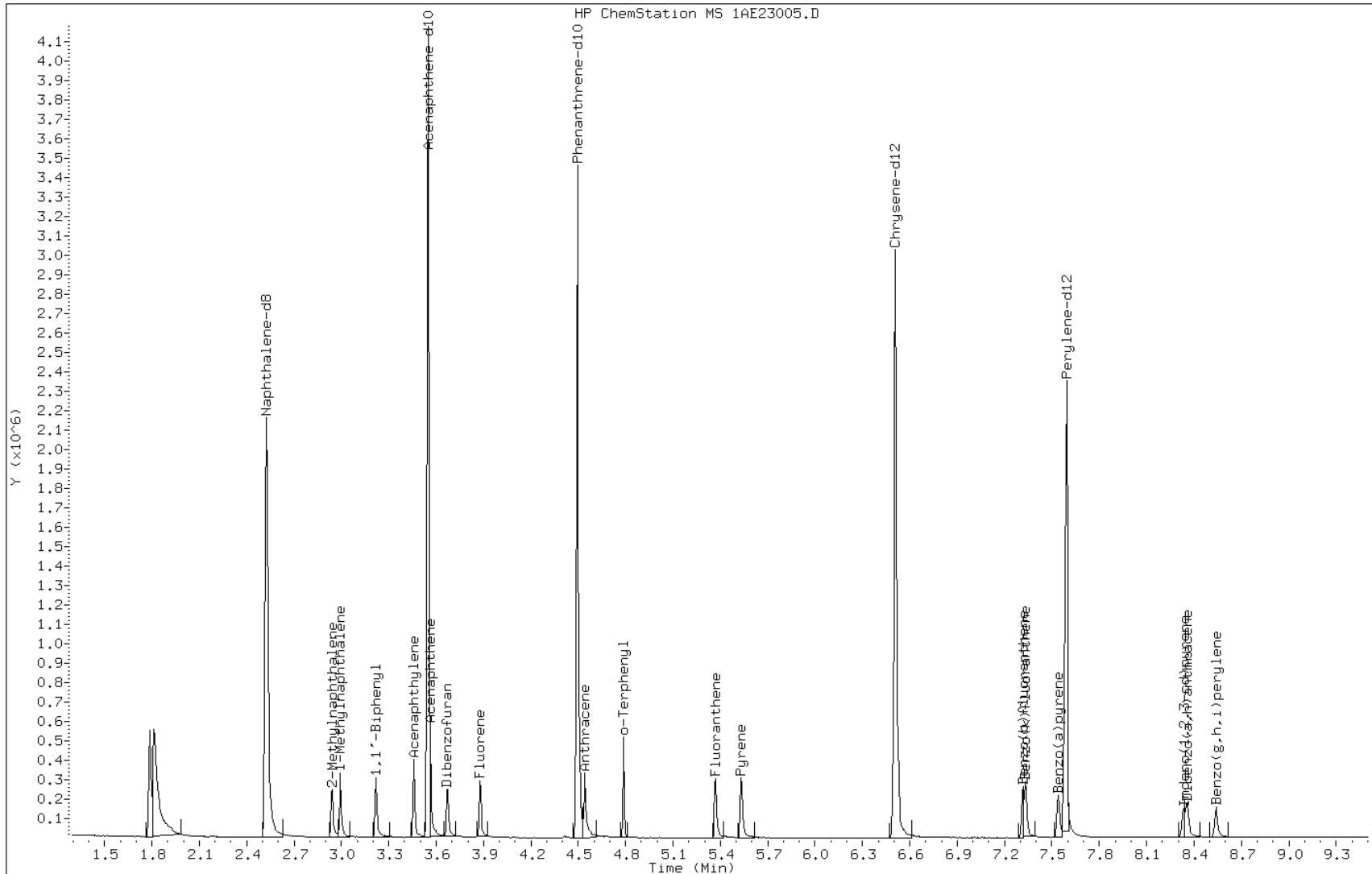
Date: 23-MAY-2013 13:21

Client ID:

Instrument: BSMA5973.i

Sample Info: IC3

Operator: SCC

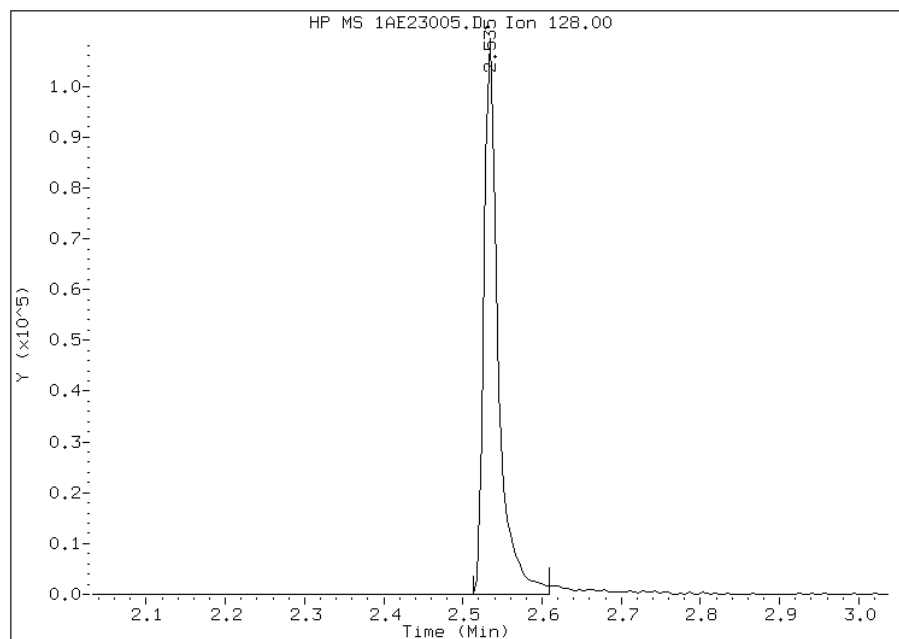


Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/23/2013

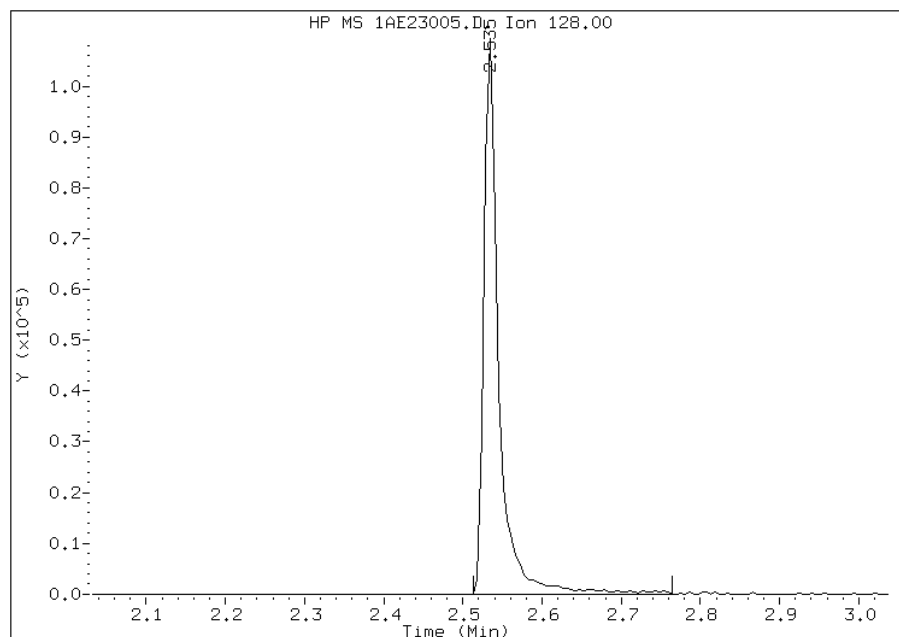
Processing Integration Results

RT: 2.53
Response: 135153
Amount: 5
Conc: 5



Manual Integration Results

RT: 2.53
Response: 142169
Amount: 5
Conc: 5



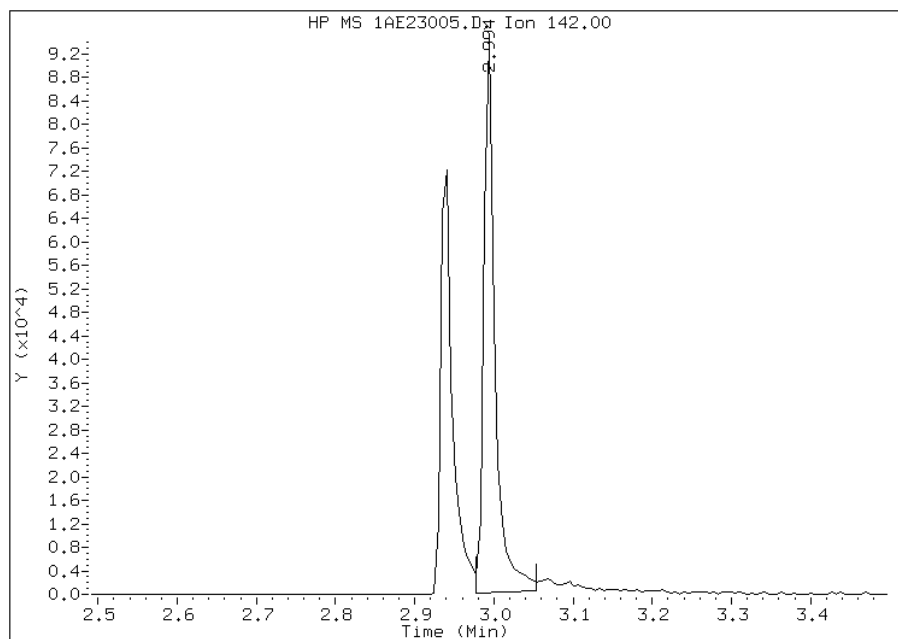
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/23/2013

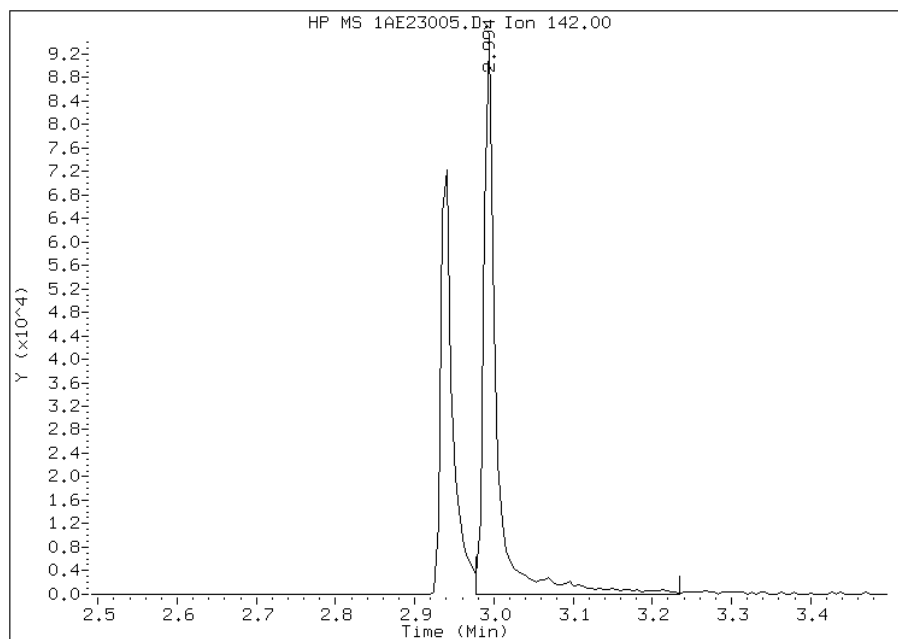
Processing Integration Results

RT: 2.99
Response: 89931
Amount: 5
Conc: 5



Manual Integration Results

RT: 2.99
Response: 104592
Amount: 5
Conc: 5



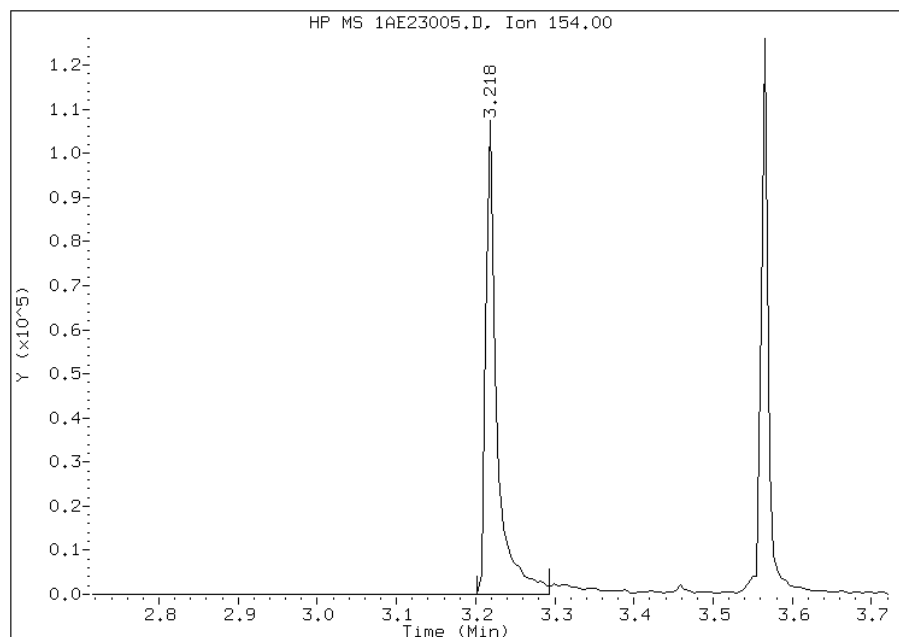
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 5 1,1'-Biphenyl
CAS #: 92-52-4
Report Date: 05/23/2013

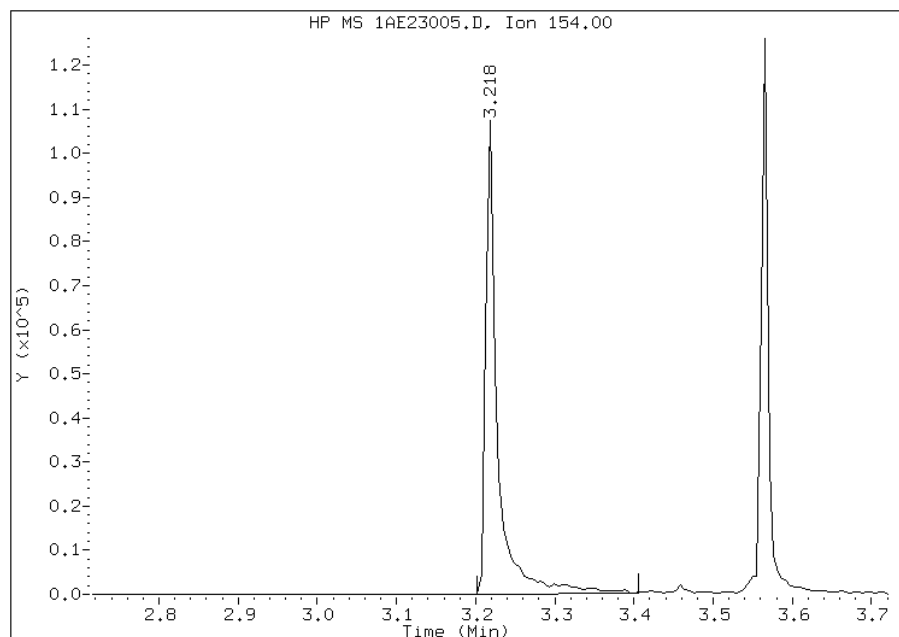
Processing Integration Results

RT: 3.22
Response: 102042
Amount: 5
Conc: 5



Manual Integration Results

RT: 3.22
Response: 107964
Amount: 5
Conc: 5



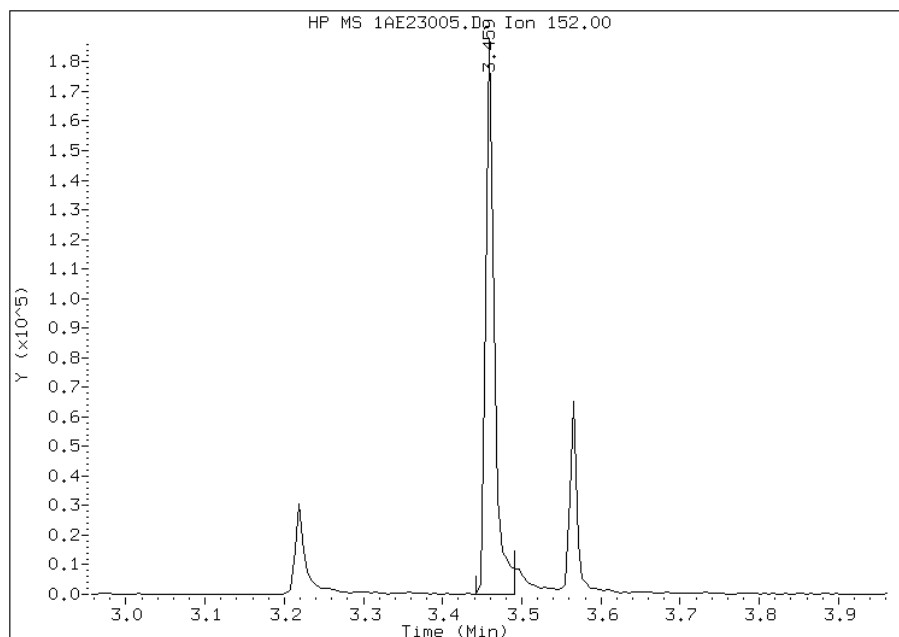
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 6 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/23/2013

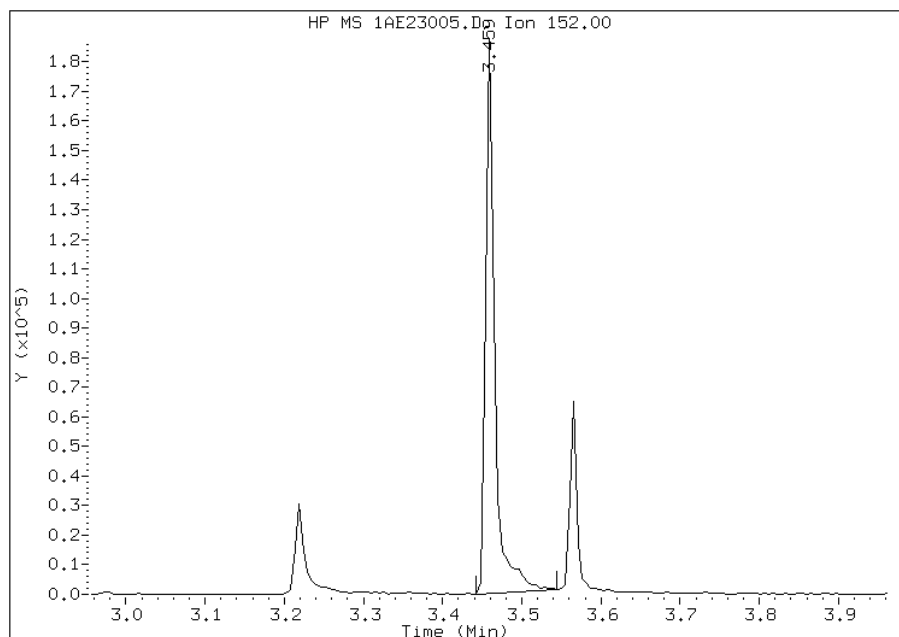
Processing Integration Results

RT: 3.46
Response: 139357
Amount: 5
Conc: 5



Manual Integration Results

RT: 3.46
Response: 146419
Amount: 5
Conc: 5



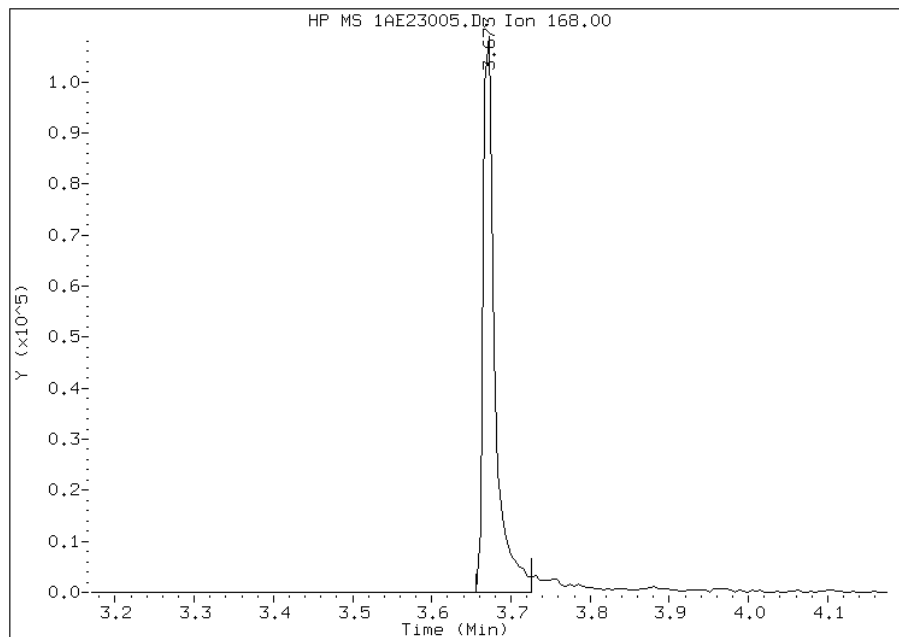
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

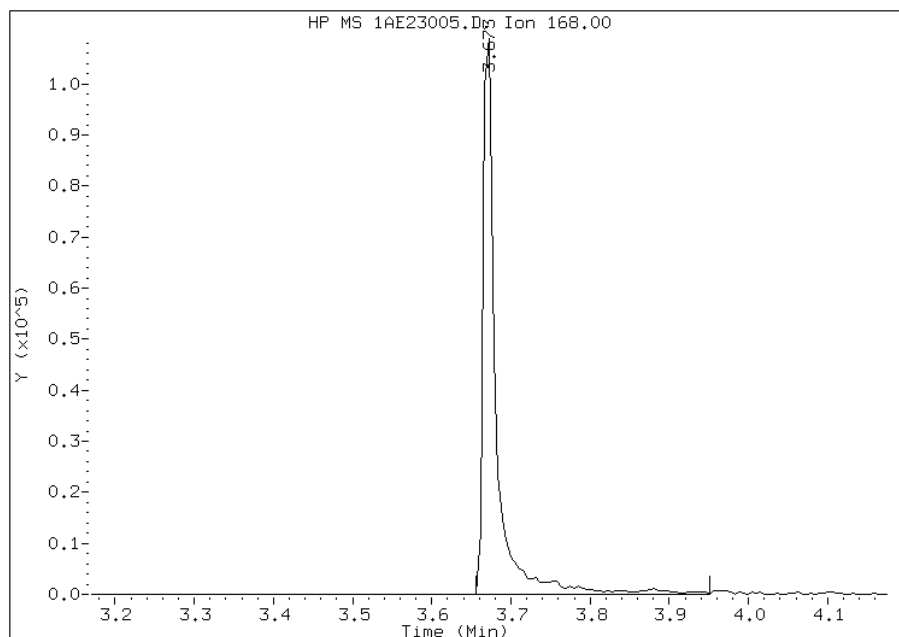
Processing Integration Results

RT: 3.67
Response: 111147
Amount: 4
Conc: 4



Manual Integration Results

RT: 3.67
Response: 123824
Amount: 5
Conc: 5



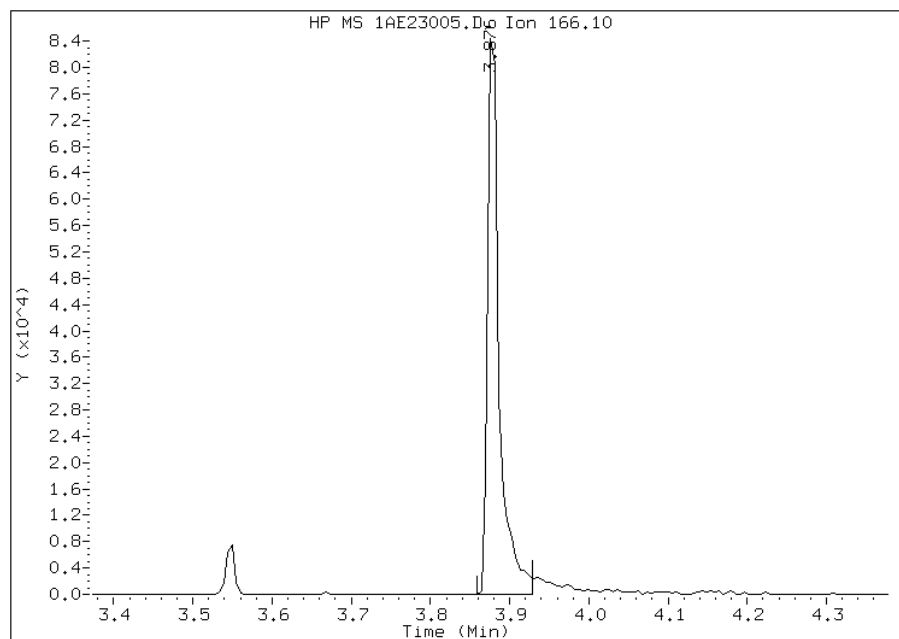
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 10 Fluorene
CAS #: 86-73-7
Report Date: 05/23/2013

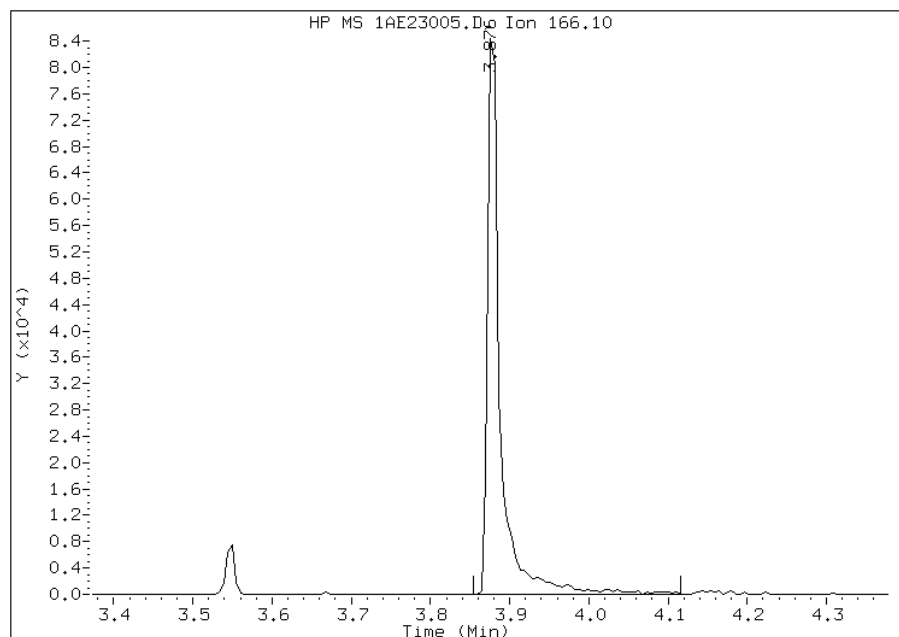
Processing Integration Results

RT: 3.88
Response: 85454
Amount: 5
Conc: 5



Manual Integration Results

RT: 3.88
Response: 93865
Amount: 5
Conc: 5



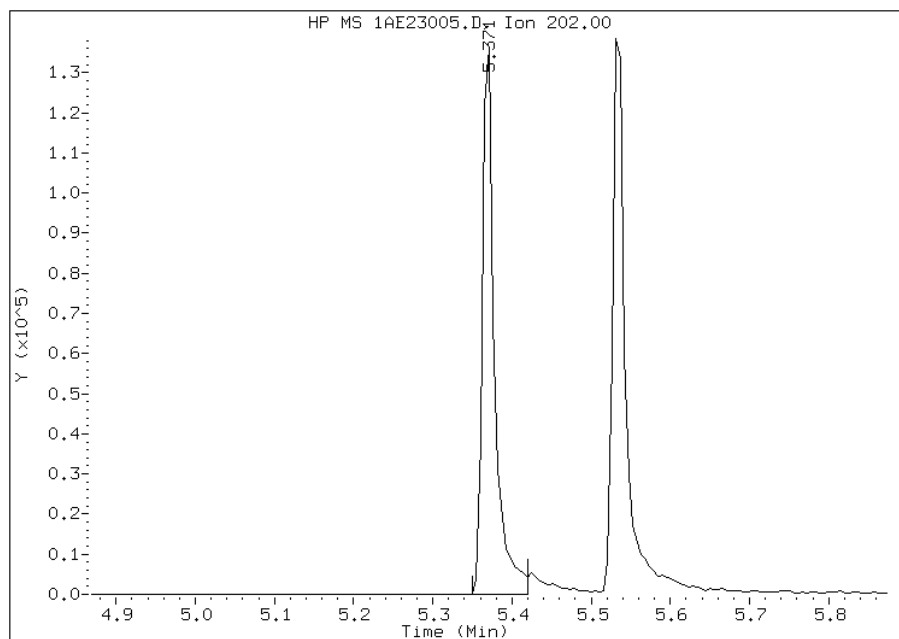
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

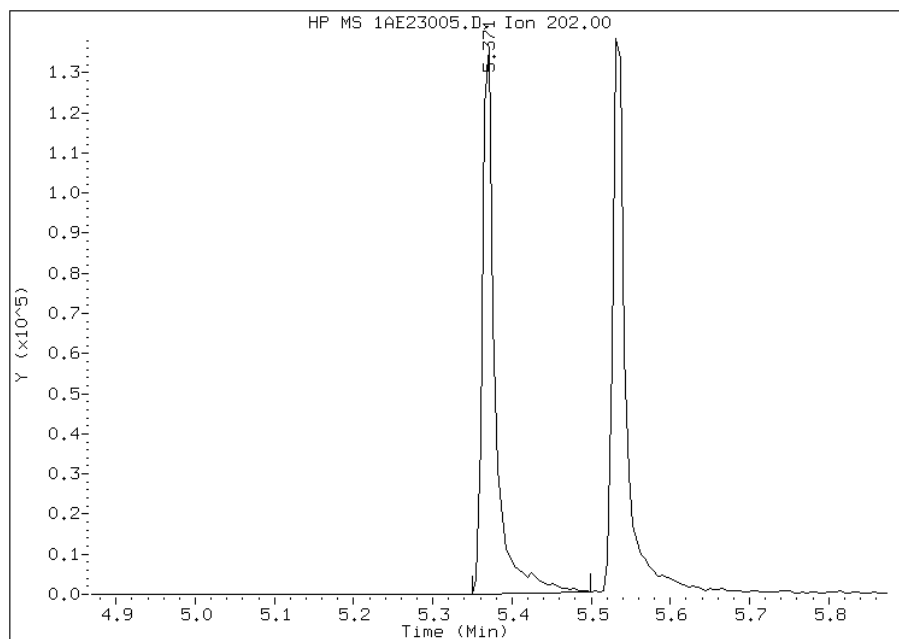
Processing Integration Results

RT: 5.37
Response: 147606
Amount: 4
Conc: 4



Manual Integration Results

RT: 5.37
Response: 155397
Amount: 5
Conc: 5



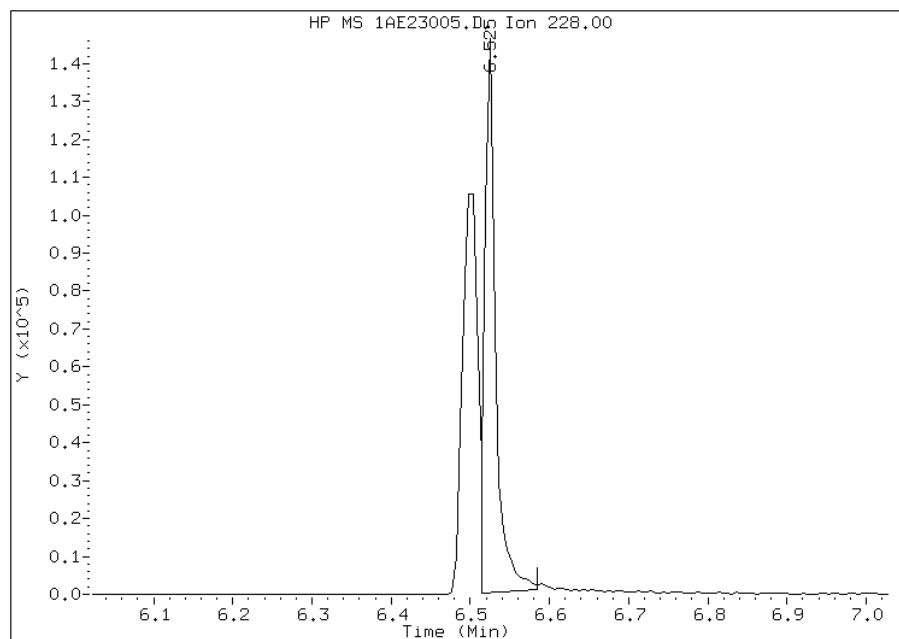
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

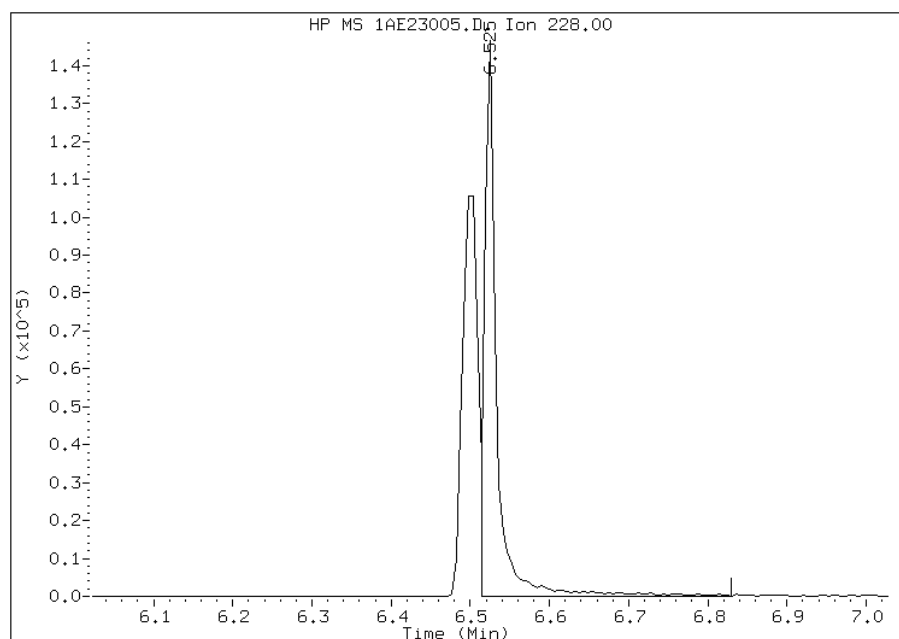
Processing Integration Results

RT: 6.53
Response: 139358
Amount: 5
Conc: 5



Manual Integration Results

RT: 6.53
Response: 155092
Amount: 5
Conc: 5



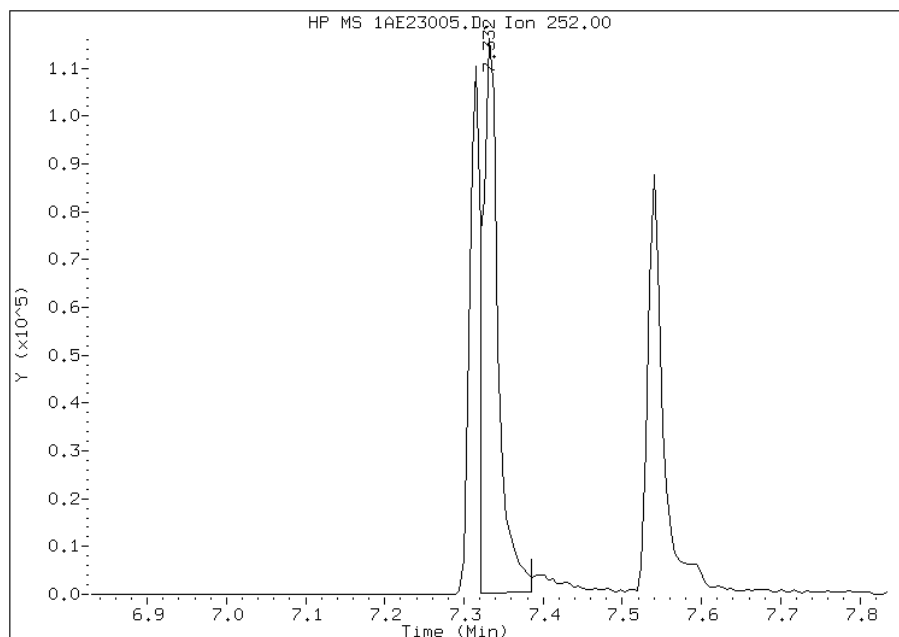
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

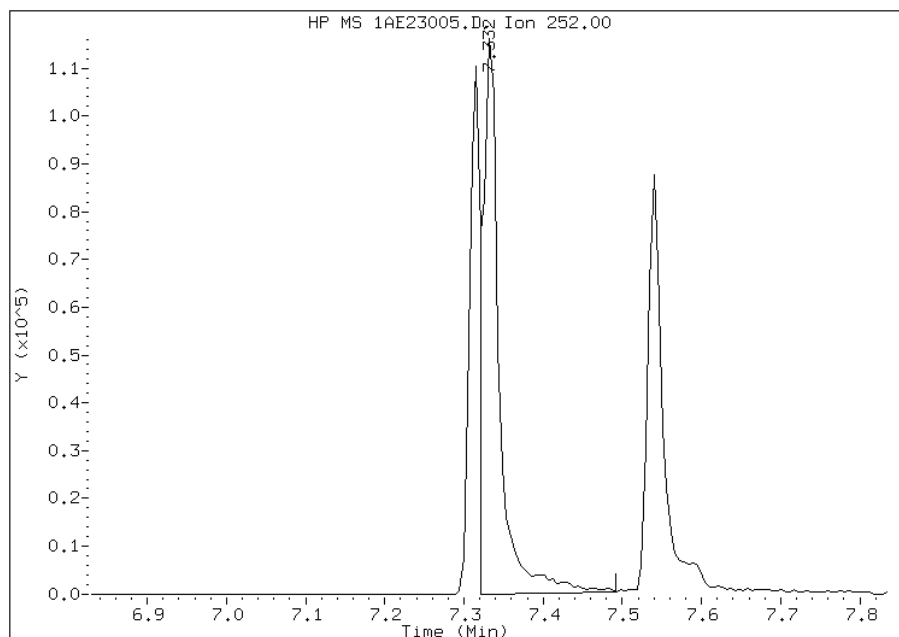
Processing Integration Results

RT: 7.33
Response: 163438
Amount: 5
Conc: 5



Manual Integration Results

RT: 7.33
Response: 175177
Amount: 5
Conc: 5



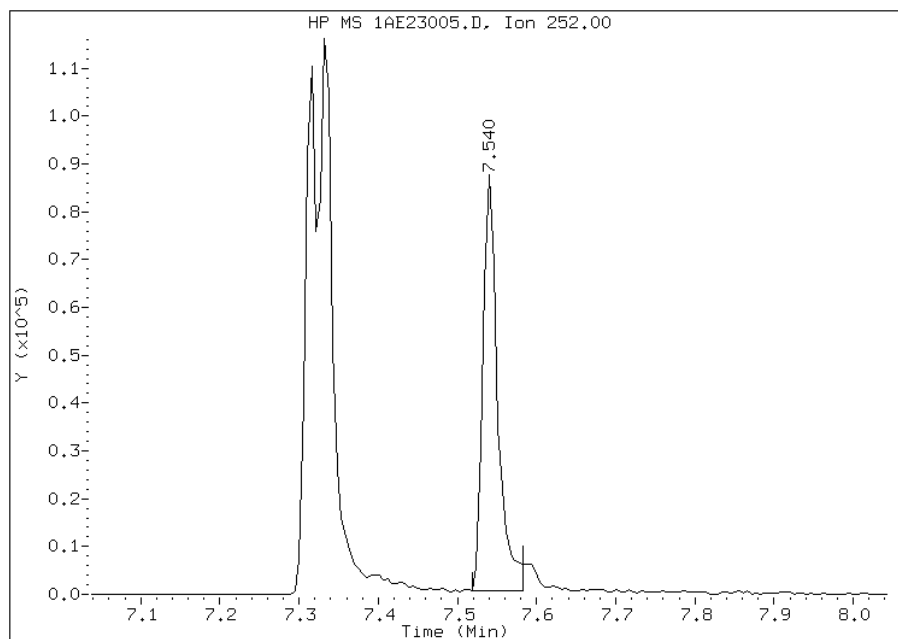
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 23 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 05/23/2013

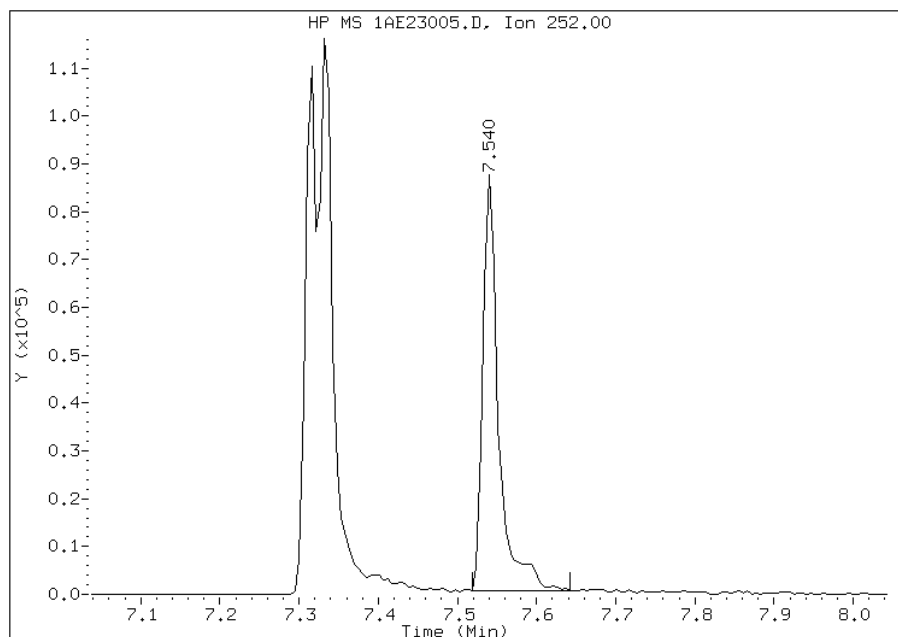
Processing Integration Results

RT: 7.54
Response: 111461
Amount: 5
Conc: 5



Manual Integration Results

RT: 7.54
Response: 117818
Amount: 5
Conc: 5



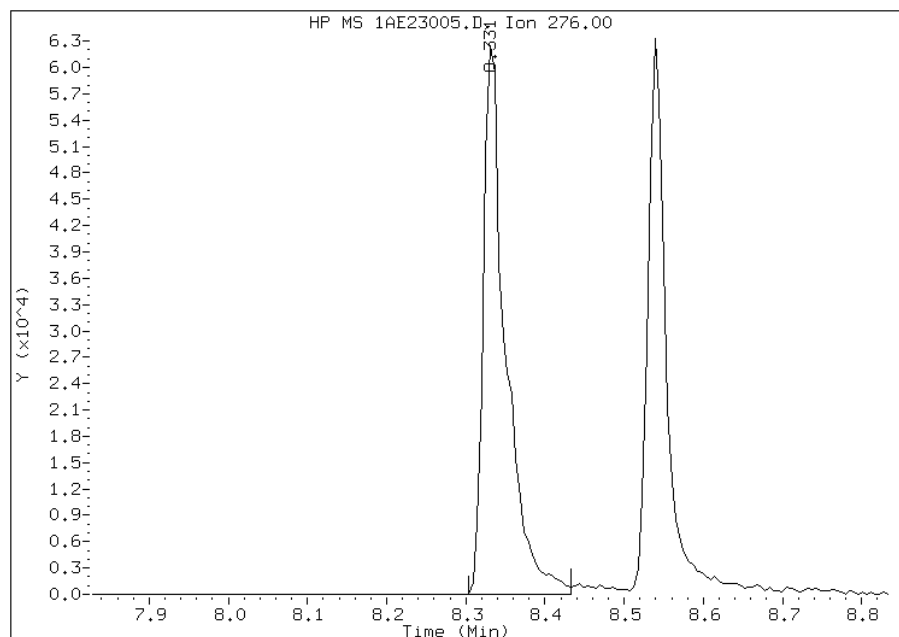
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

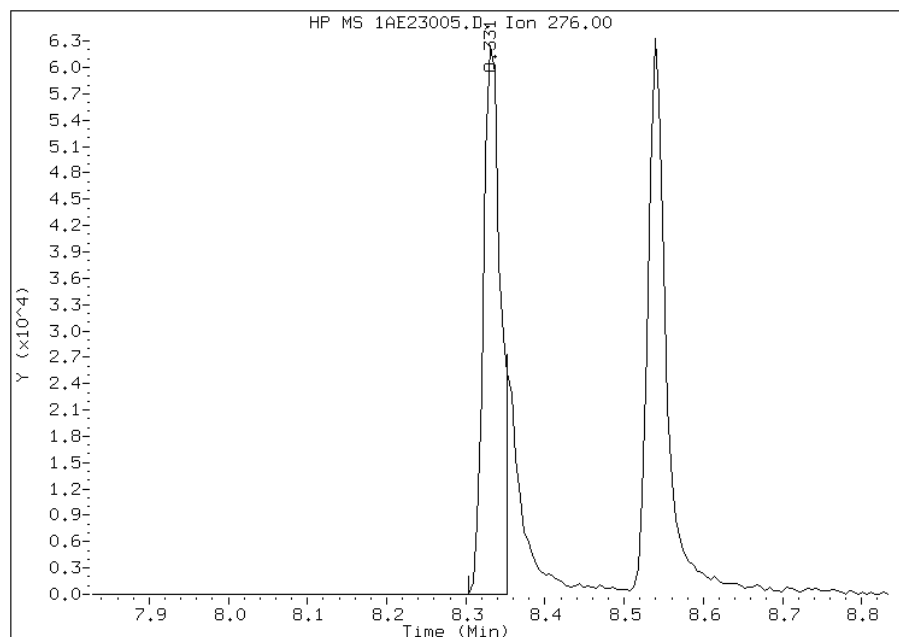
Processing Integration Results

RT: 8.33
Response: 122001
Amount: 6
Conc: 6



Manual Integration Results

RT: 8.33
Response: 95139
Amount: 4
Conc: 4



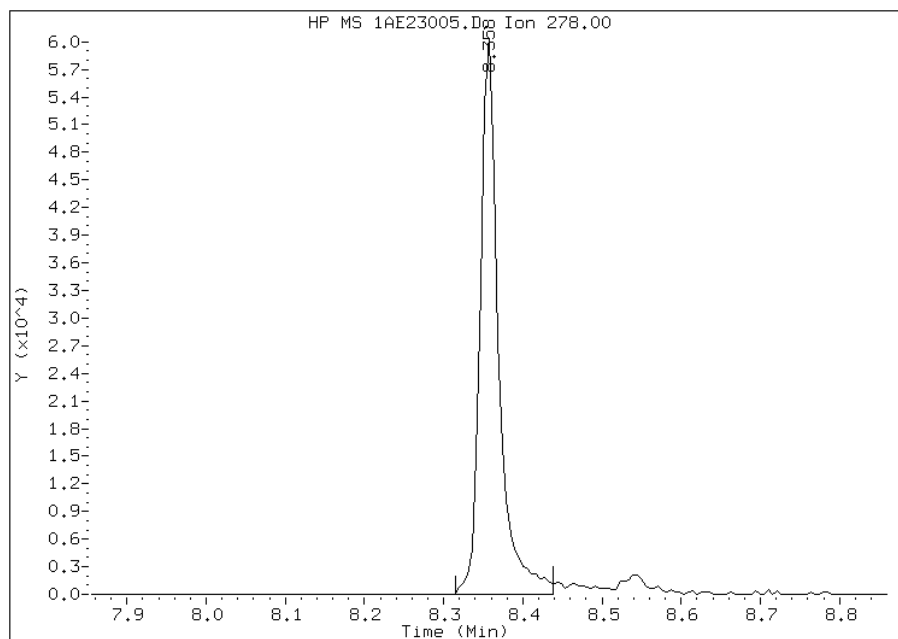
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

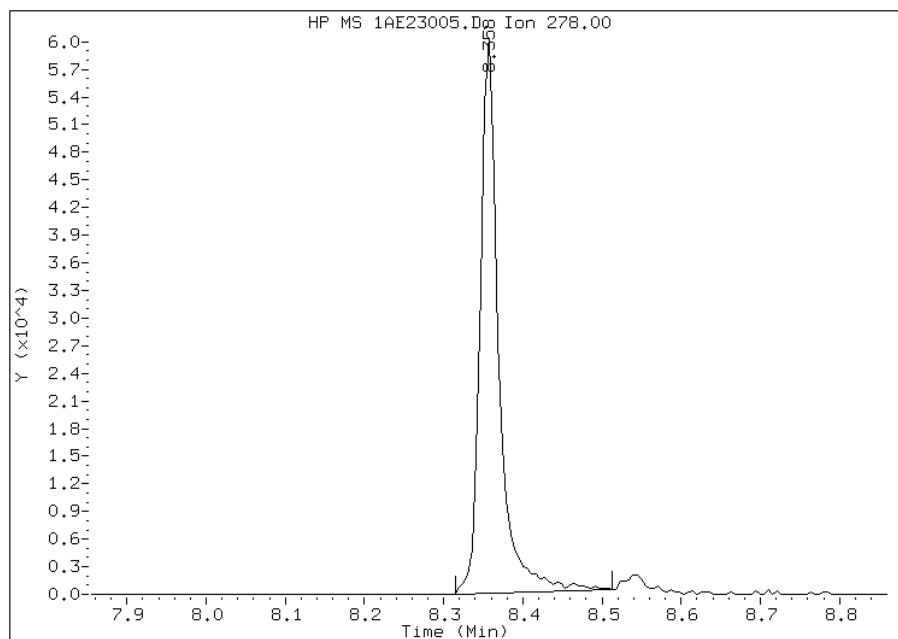
Processing Integration Results

RT: 8.36
Response: 96633
Amount: 5
Conc: 5



Manual Integration Results

RT: 8.36
Response: 97574
Amount: 5
Conc: 5



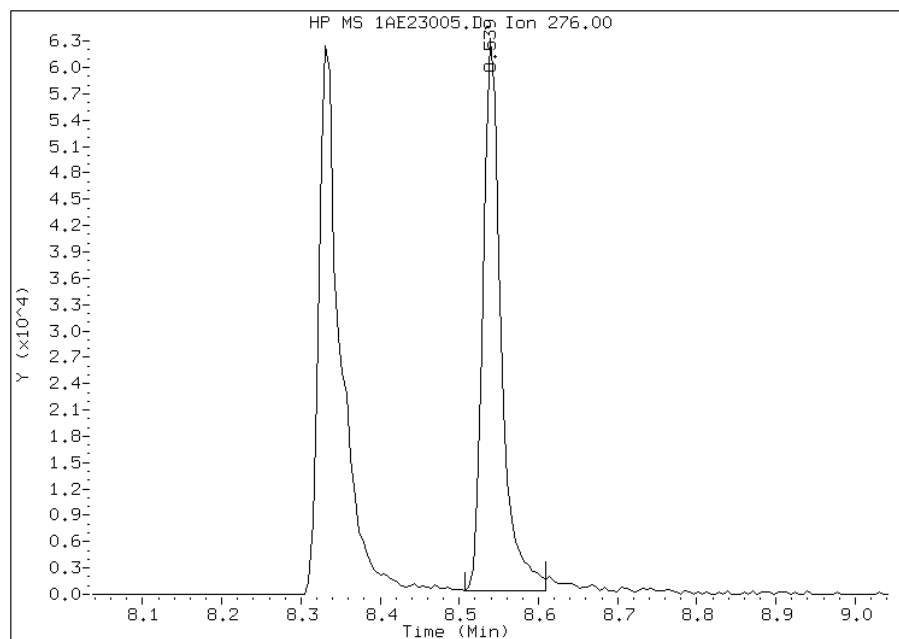
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23005.D
Inj. Date and Time: 23-MAY-2013 13:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

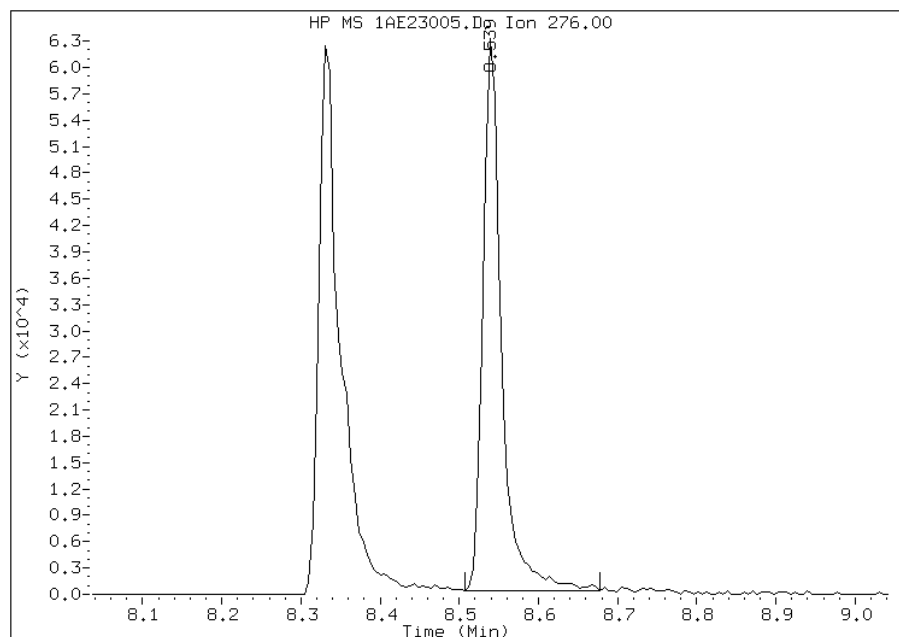
Processing Integration Results

RT: 8.54
Response: 99278
Amount: 5
Conc: 5



Manual Integration Results

RT: 8.54
Response: 102445
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23006.D
 Lab Smp Id: IC4
 Inj Date : 23-MAY-2013 13:36
 Operator : SCC
 Smp Info : IC4
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23006.D
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:21 Cal File: 1AE23005.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	2.522	2.527	(1.000)	1258004	40.0000	
* 7 Acenaphthene-d10	164	3.547	3.548	(1.000)	687005	40.0000	
* 11 Phenanthrene-d10	188	4.493	4.498	(1.000)	1232153	40.0000	
\$ 15 o-Terphenyl	230	4.787	4.792	(1.065)	181006	10.0000	10.1568
* 19 Chrysene-d12	240	6.512	6.512	(1.000)	1155708	40.0000	
* 24 Perylene-d12	264	7.602	7.602	(1.000)	1048936	40.0000	
2 Naphthalene	128	2.532	2.538	(1.004)	292802	10.0000	10.2800
3 2-Methylnaphthalene	141	2.938	2.938	(1.165)	142672	10.0000	10.5203
4 1-Methylnaphthalene	142	2.992	2.992	(1.186)	197150	10.0000	9.9528
5 1,1'-Biphenyl	154	3.216	3.216	(1.275)	226391	10.0000	10.2315
6 Acenaphthylene	152	3.457	3.462	(0.974)	319831	10.0000	10.6398
8 Acenaphthene	154	3.563	3.569	(1.005)	157029	10.0000	9.7737
9 Dibenzofuran	168	3.670	3.670	(1.035)	248677	10.0000	10.1099
10 Fluorene	166	3.879	3.879	(1.093)	191330	10.0000	10.2583
12 Phenanthrene	178	4.509	4.509	(1.004)	269043	10.0000	9.6951
13 Anthracene	178	4.541	4.546	(1.011)	292299	10.0000	10.0686
16 Fluoranthene	202	5.369	5.375	(1.195)	336165	10.0000	9.7023
17 Pyrene	202	5.535	5.540	(0.850)	343849	10.0000	9.8736
18 Benzo(a)anthracene	228	6.502	6.502	(0.998)	332493	10.0000	9.7939
20 Chrysene	228	6.528	6.534	(1.002)	289372	10.0000	9.3794
21 Benzo(b)fluoranthene	252	7.319	7.319	(0.963)	287554	10.0000	11.0484
22 Benzo(k)fluoranthene	252	7.340	7.346	(0.966)	324503	10.0000	9.2983
23 Benzo(a)pyrene	252	7.543	7.549	(0.992)	262575	10.0000	10.2618(M)
25 Indeno(1,2,3-cd)pyrene	276	8.350	8.355	(1.098)	212302	10.0000	9.4366(M)
26 Dibenzo(a,h)anthracene	278	8.371	8.377	(1.101)	217038	10.0000	9.8818(M)
27 Benzo(g,h,i)perylene	276	8.558	8.569	(1.126)	215153	10.0000	9.5592

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23006.D

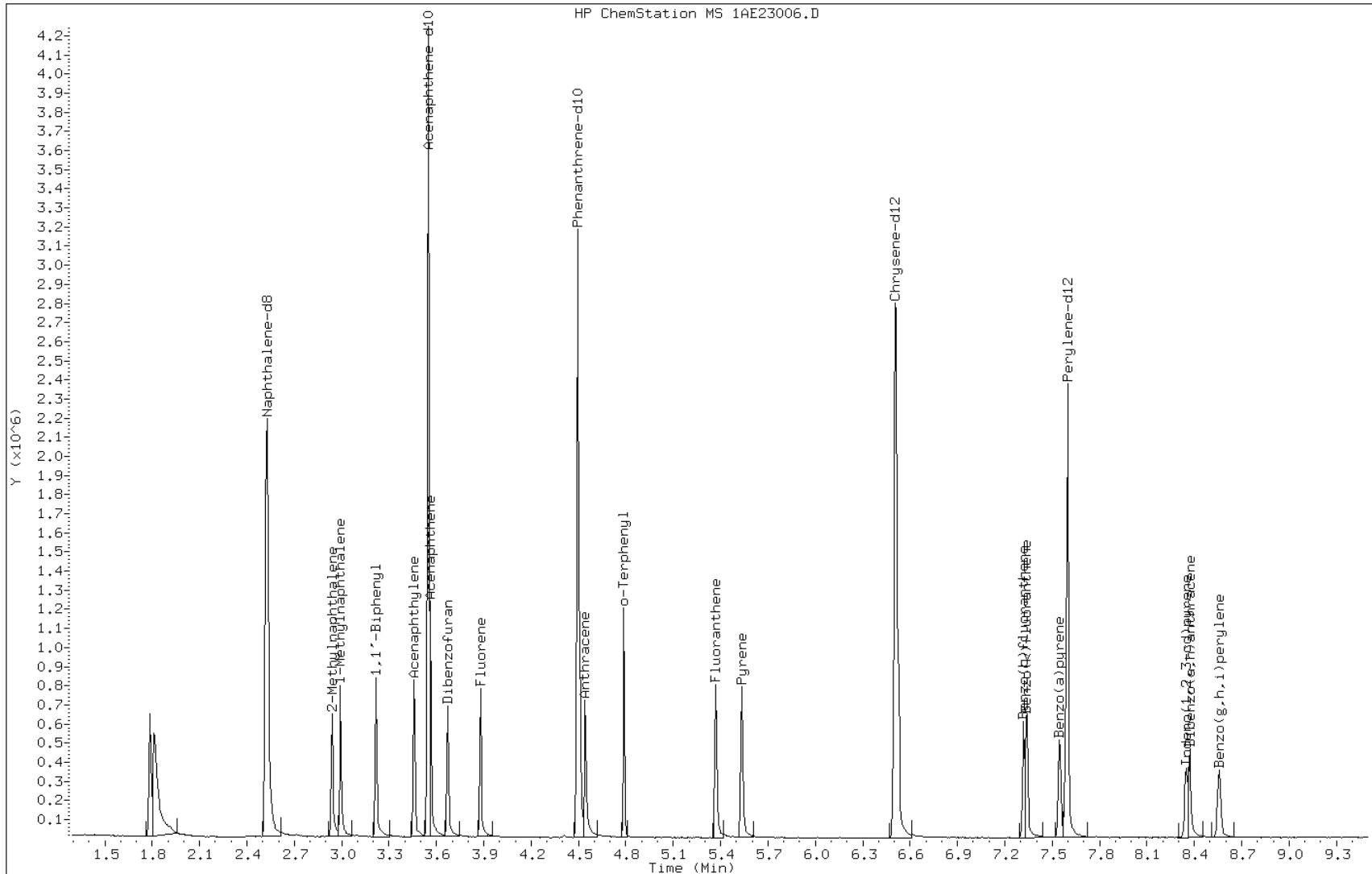
Date: 23-MAY-2013 13:36

Client ID:

Instrument: BSMA5973.i

Sample Info: IC4

Operator: SCC

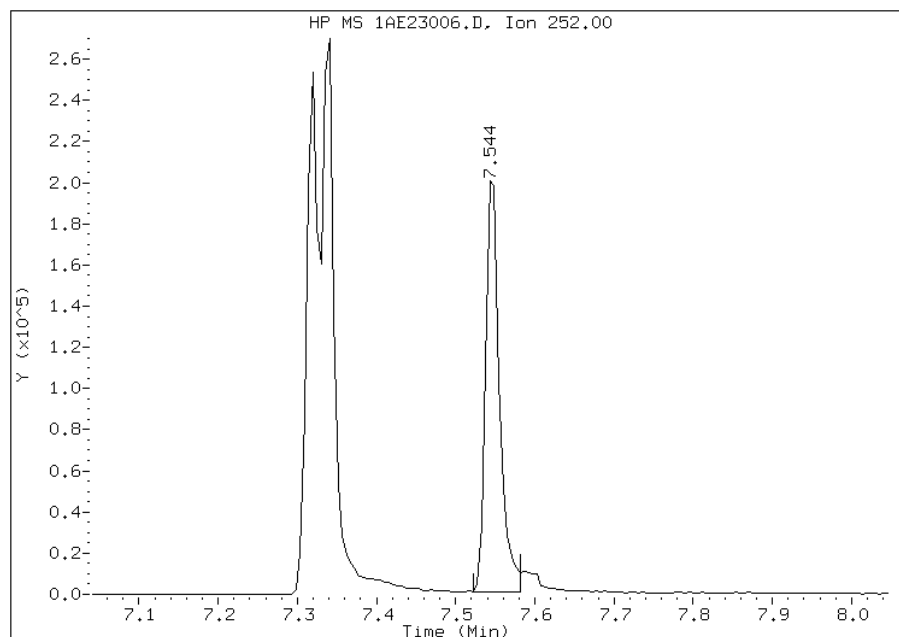


Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 23 Benzo(a)pyrene
CAS #: 50-32-8
Report Date: 05/23/2013

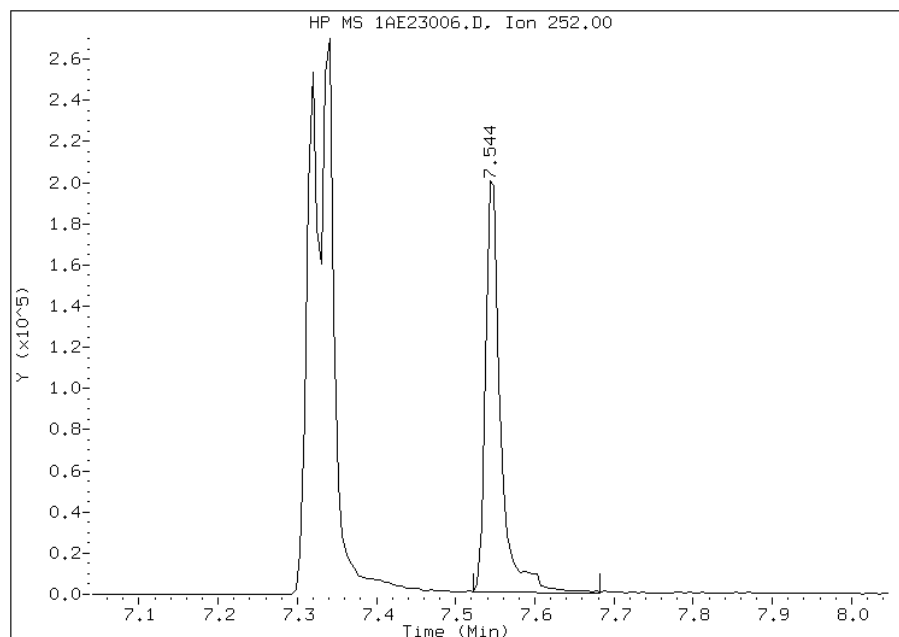
Processing Integration Results

RT: 7.54
Response: 244215
Amount: 10
Conc: 10



Manual Integration Results

RT: 7.54
Response: 262575
Amount: 10
Conc: 10



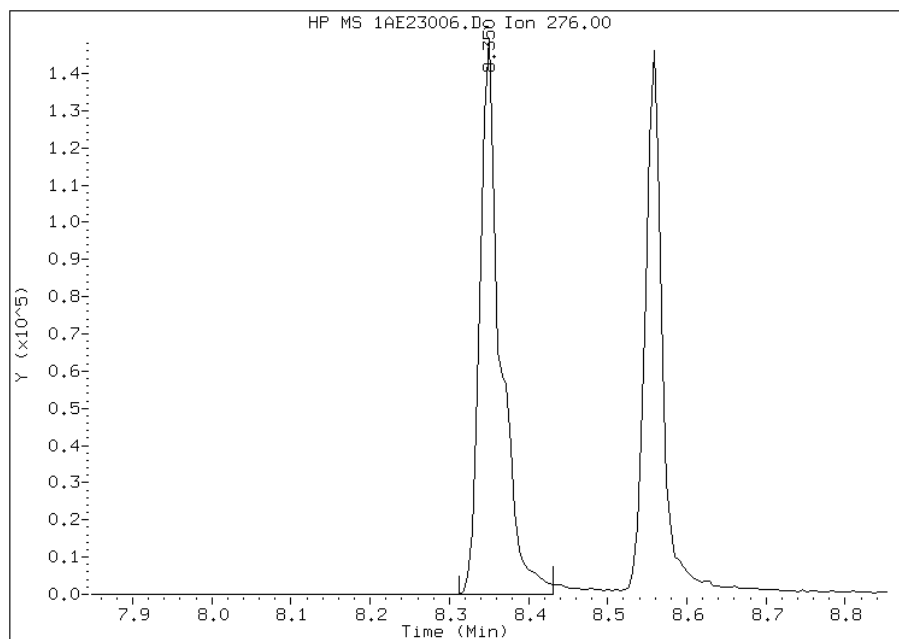
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

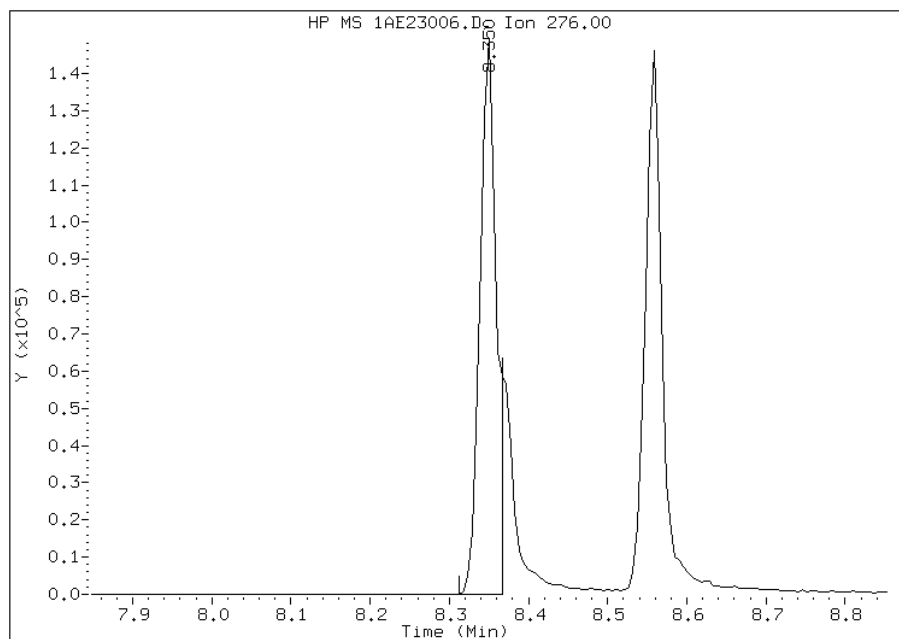
Processing Integration Results

RT: 8.35
Response: 267270
Amount: 11
Conc: 11



Manual Integration Results

RT: 8.35
Response: 212302
Amount: 9
Conc: 9



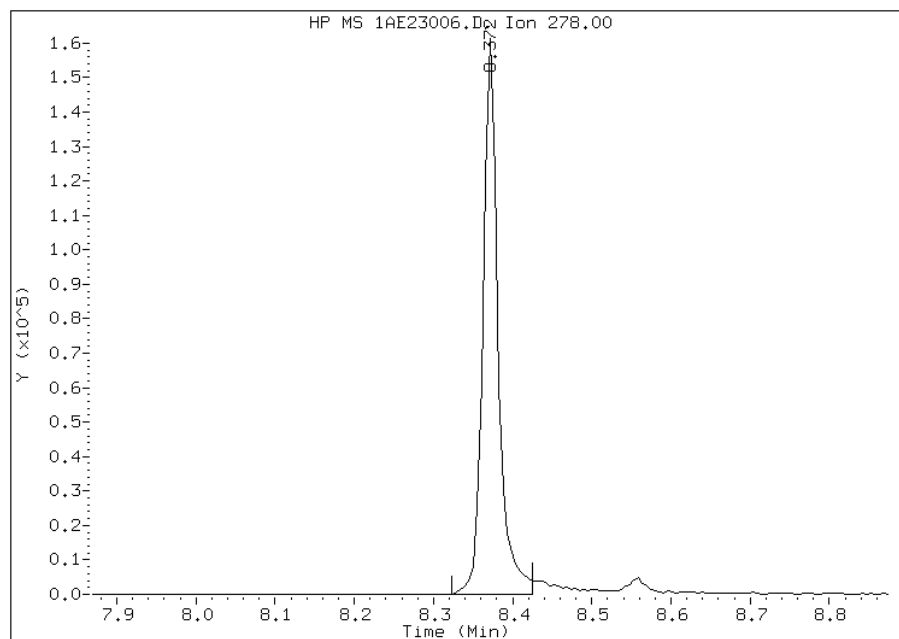
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23006.D
Inj. Date and Time: 23-MAY-2013 13:36
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

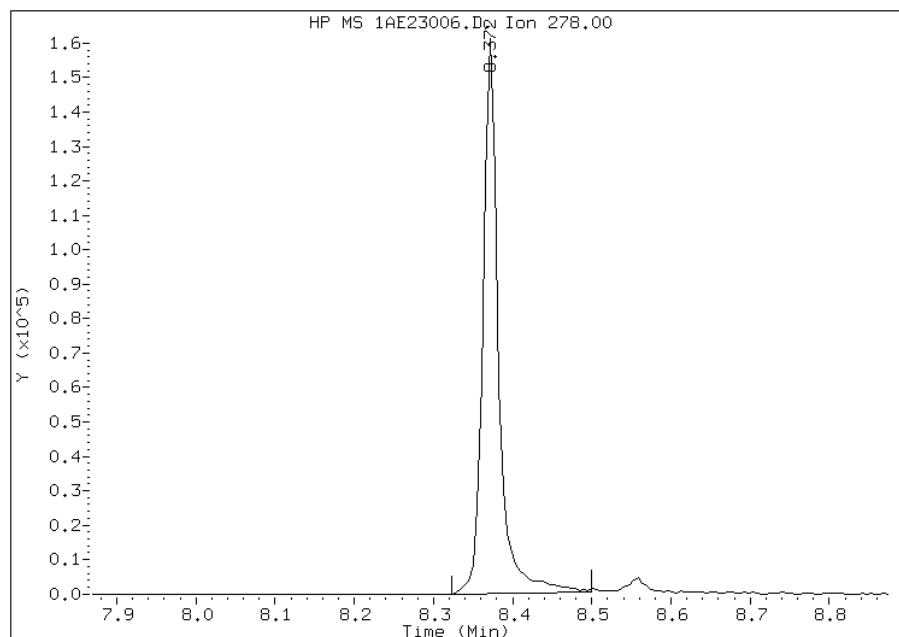
Processing Integration Results

RT: 8.37
Response: 210965
Amount: 10
Conc: 10



Manual Integration Results

RT: 8.37
Response: 217038
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:21
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23007.D
 Lab Smp Id: ICIS
 Inj Date : 23-MAY-2013 13:52
 Operator : SCC
 Smp Info : ICIS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23007.D
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:36 Cal File: 1AE23006.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	2.527	2.527	(1.000)	1225593	40.0000	
* 7 Acenaphthene-d10	164	3.548	3.548	(1.000)	677570	40.0000	
* 11 Phenanthrene-d10	188	4.498	4.498	(1.000)	1226779	40.0000	
\$ 15 o-Terphenyl	230	4.792	4.792	(1.065)	357347	20.0000	20.1396
* 19 Chrysene-d12	240	6.512	6.512	(1.000)	1124722	40.0000	
* 24 Perylene-d12	264	7.602	7.602	(1.000)	1011274	40.0000	
2 Naphthalene	128	2.538	2.538	(1.004)	560603	20.0000	20.2027
3 2-Methylnaphthalene	141	2.938	2.938	(1.163)	294996	20.0000	22.3276
4 1-Methylnaphthalene	142	2.992	2.992	(1.184)	384376	20.0000	19.9177
5 1,1'-Biphenyl	154	3.216	3.216	(1.273)	463010	20.0000	21.4787
6 Acenaphthylene	152	3.462	3.462	(0.976)	630726	20.0000	21.2746
8 Acenaphthene	154	3.569	3.569	(1.006)	323095	20.0000	20.3901
9 Dibenzofuran	168	3.670	3.670	(1.035)	507750	20.0000	20.9300
10 Fluorene	166	3.879	3.879	(1.093)	396396	20.0000	21.5490
12 Phenanthrene	178	4.509	4.509	(1.002)	546502	20.0000	19.7798
13 Anthracene	178	4.546	4.546	(1.011)	582875	20.0000	20.1658
16 Fluoranthene	202	5.375	5.375	(1.195)	699074	20.0000	20.2648
17 Pyrene	202	5.540	5.540	(0.851)	697125	20.0000	20.5694
18 Benzo(a)anthracene	228	6.502	6.502	(0.998)	619479	20.0000	18.7502
20 Chrysene	228	6.534	6.534	(1.003)	612439	20.0000	20.3979
21 Benzo(b)fluoranthene	252	7.319	7.319	(0.963)	525140	20.0000	20.9285
22 Benzo(k)fluoranthene	252	7.346	7.346	(0.966)	704150	20.0000	20.9283(M)
23 Benzo(a)pyrene	252	7.549	7.549	(0.993)	512618	20.0000	20.7801
25 Indeno(1,2,3-cd)pyrene	276	8.355	8.355	(1.099)	446337	20.0000	20.5781(M)
26 Dibenzo(a,h)anthracene	278	8.377	8.377	(1.102)	443752	20.0000	20.9567(M)
27 Benzo(g,h,i)perylene	276	8.569	8.569	(1.127)	465107	20.0000	21.4343(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23007.D

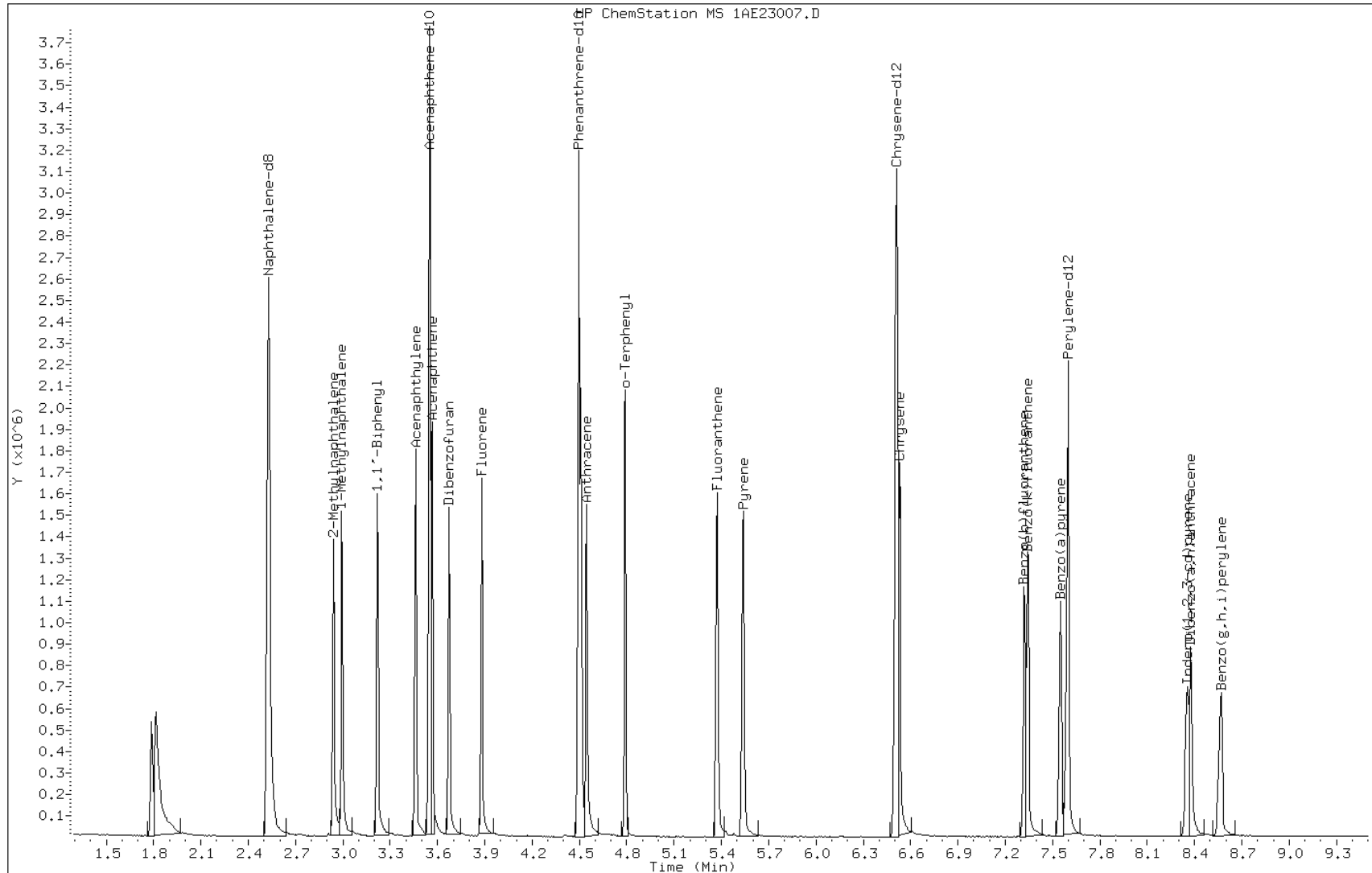
Date: 23-MAY-2013 13:52

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS

Operator: SCC

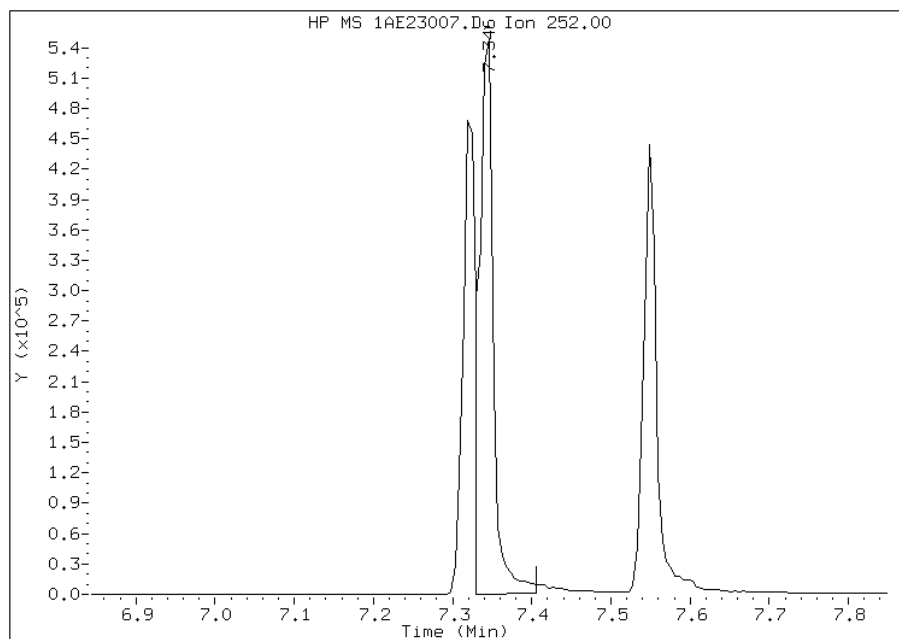


Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

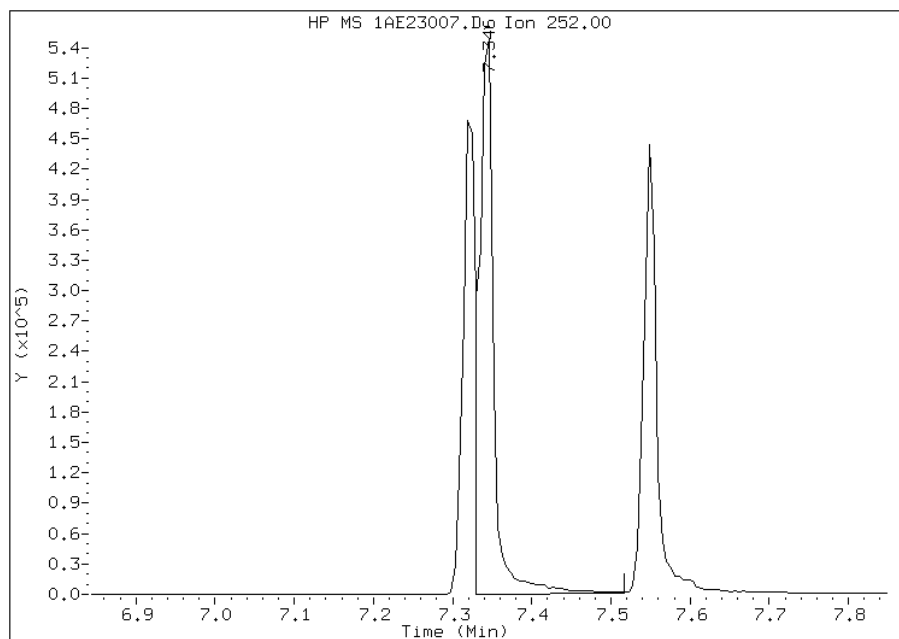
Processing Integration Results

RT: 7.35
Response: 682175
Amount: 20
Conc: 20



Manual Integration Results

RT: 7.35
Response: 704150
Amount: 21
Conc: 21



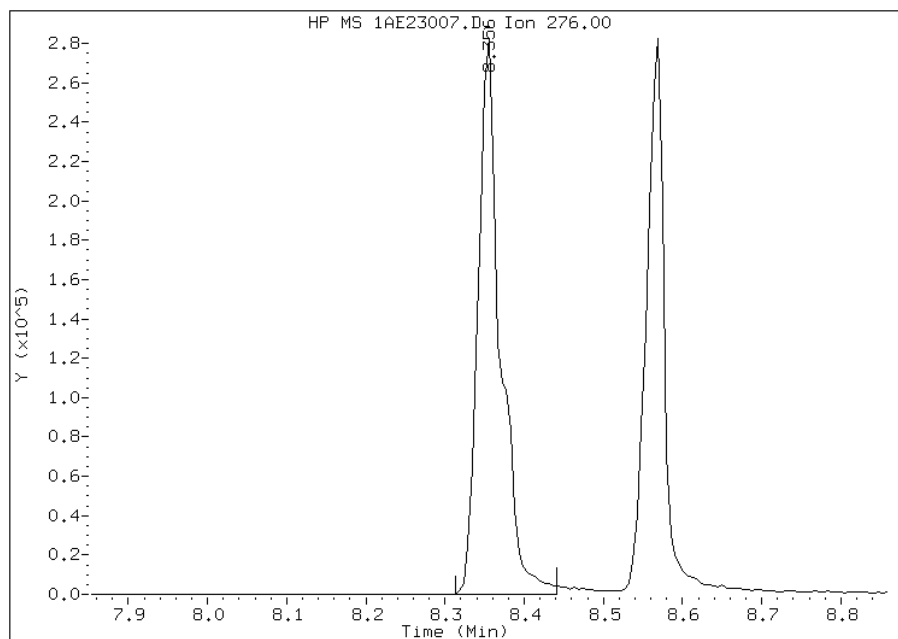
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:09
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

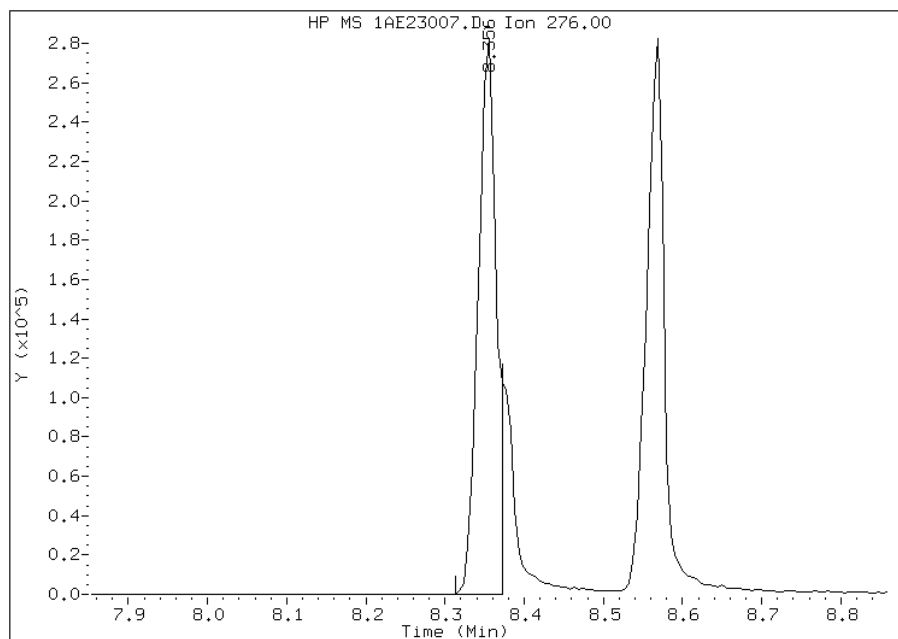
Processing Integration Results

RT: 8.36
Response: 548892
Amount: 23
Conc: 23



Manual Integration Results

RT: 8.36
Response: 446337
Amount: 21
Conc: 21



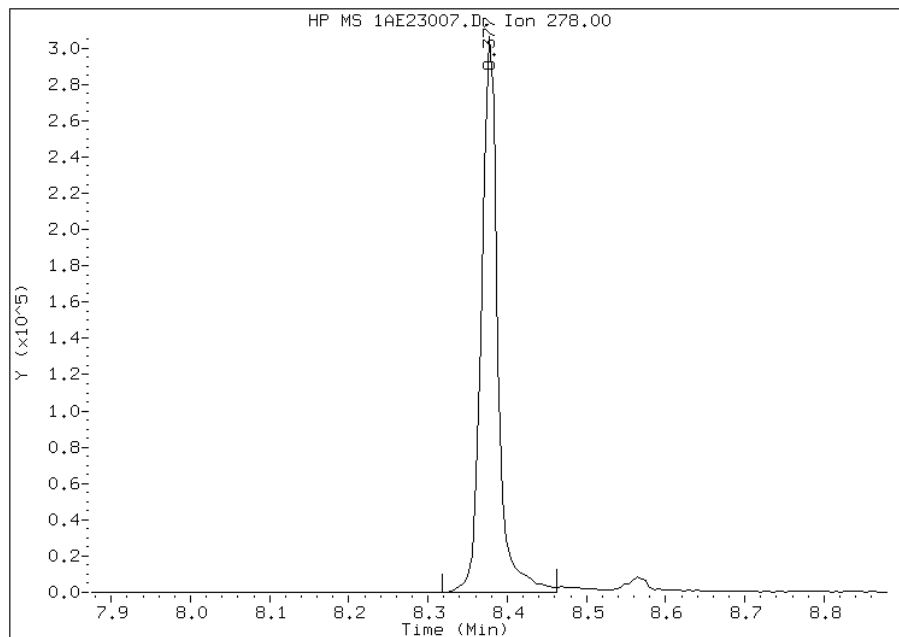
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/23/2013

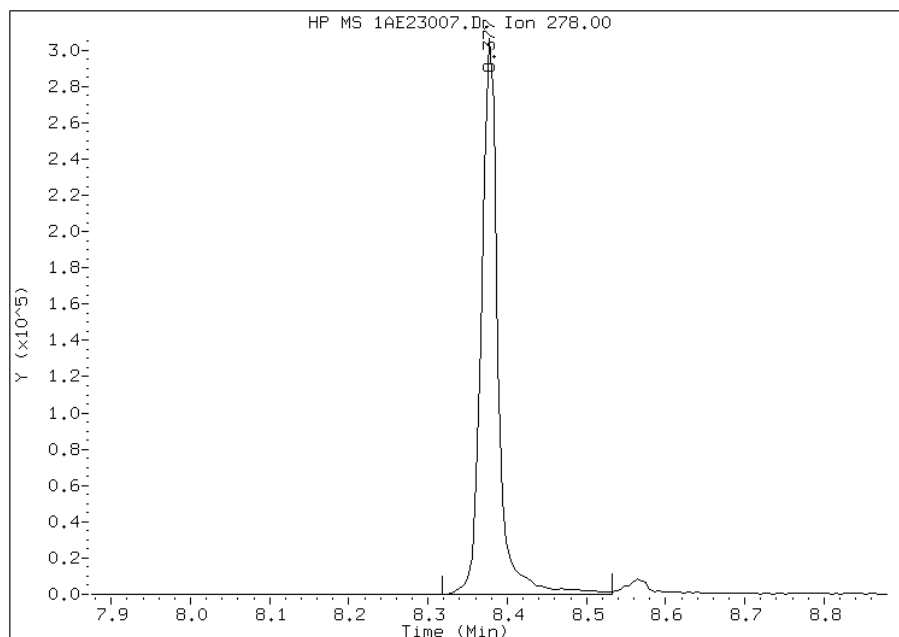
Processing Integration Results

RT: 8.38
Response: 434700
Amount: 19
Conc: 19



Manual Integration Results

RT: 8.38
Response: 443752
Amount: 21
Conc: 21



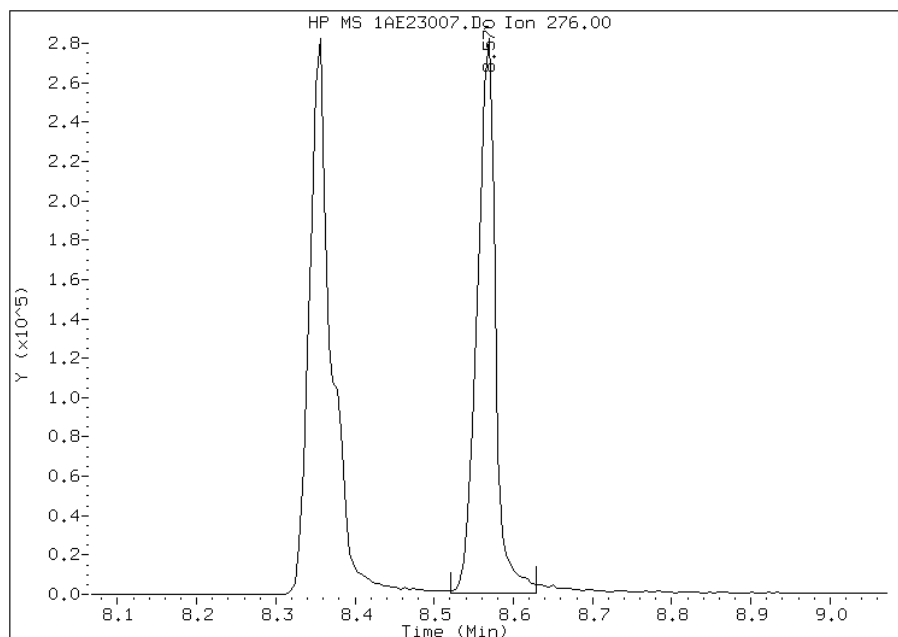
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23007.D
Inj. Date and Time: 23-MAY-2013 13:52
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

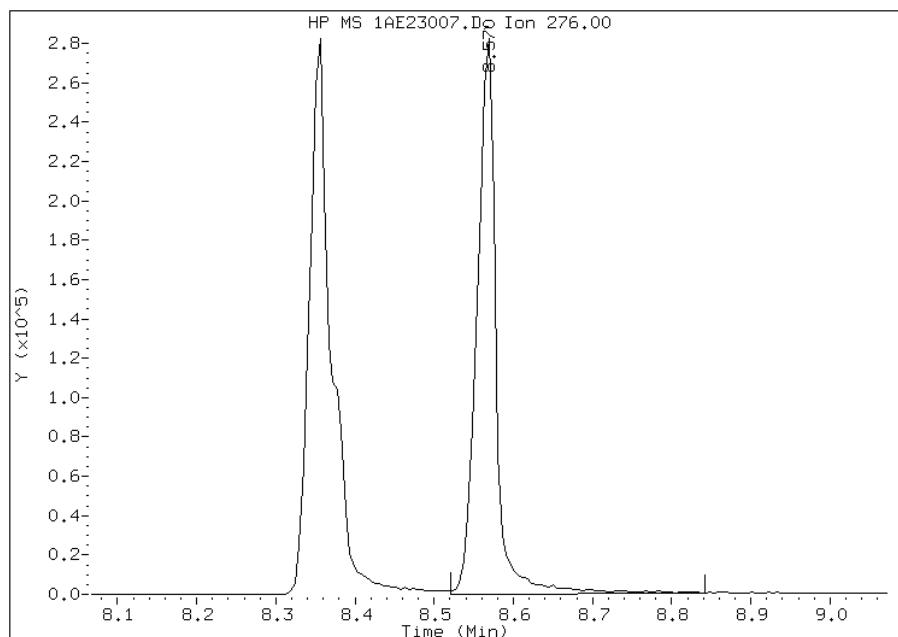
Processing Integration Results

RT: 8.57
Response: 446751
Amount: 18
Conc: 18



Manual Integration Results

RT: 8.57
Response: 465107
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:08
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23008.D
 Lab Smp Id: IC6
 Inj Date : 23-MAY-2013 14:07
 Operator : SCC
 Smp Info : IC6
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:52 Cal File: 1AE23007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.527	2.527	(1.000)	1148218	40.0000	
* 7 Acenaphthene-d10	164	3.547	3.548	(1.000)	634865	40.0000	
* 11 Phenanthrene-d10	188	4.498	4.498	(1.000)	1127082	40.0000	
\$ 15 o-Terphenyl	230	4.792	4.792	(1.065)	490290	30.0000	30.0764
* 19 Chrysene-d12	240	6.517	6.512	(1.000)	1157534	40.0000	
* 24 Perylene-d12	264	7.596	7.602	(1.000)	964602	40.0000	
2 Naphthalene	128	2.537	2.538	(1.004)	771759	30.0000	29.6865
3 2-Methylnaphthalene	141	2.938	2.938	(1.163)	394152	30.0000	31.8428
4 1-Methylnaphthalene	142	2.997	2.992	(1.186)	501360	30.0000	27.7304
5 1,1'-Biphenyl	154	3.221	3.216	(1.275)	617501	30.0000	30.5757
6 Acenaphthylene	152	3.462	3.462	(0.976)	808511	30.0000	29.1058
8 Acenaphthene	154	3.569	3.569	(1.006)	434674	30.0000	29.2769
9 Dibenzofuran	168	3.675	3.670	(1.036)	670801	30.0000	29.5111
10 Fluorene	166	3.884	3.879	(1.095)	510806	30.0000	29.6366
12 Phenanthrene	178	4.514	4.509	(1.004)	765052	30.0000	30.1392
13 Anthracene	178	4.546	4.546	(1.011)	788422	30.0000	29.6899
16 Fluoranthene	202	5.374	5.375	(1.195)	1063362	30.0000	33.5515
17 Pyrene	202	5.540	5.540	(0.850)	1055562	30.0000	30.2626
18 Benzo(a)anthracene	228	6.501	6.502	(0.998)	981619	30.0000	28.8691
20 Chrysene	228	6.533	6.534	(1.002)	893518	30.0000	28.9159
21 Benzo(b)fluoranthene	252	7.324	7.319	(0.964)	882593	30.0000	36.8760
22 Benzo(k)fluoranthene	252	7.345	7.346	(0.967)	996400	30.0000	31.0473
23 Benzo(a)pyrene	252	7.548	7.549	(0.994)	788336	30.0000	33.5031
25 Indeno(1,2,3-cd)pyrene	276	8.350	8.355	(1.099)	737791	30.0000	35.6614(M)
26 Dibenzo(a,h)anthracene	278	8.376	8.377	(1.103)	710982	30.0000	35.2017
27 Benzo(g,h,i)perylene	276	8.569	8.569	(1.128)	690132	30.0000	33.3434

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23008.D

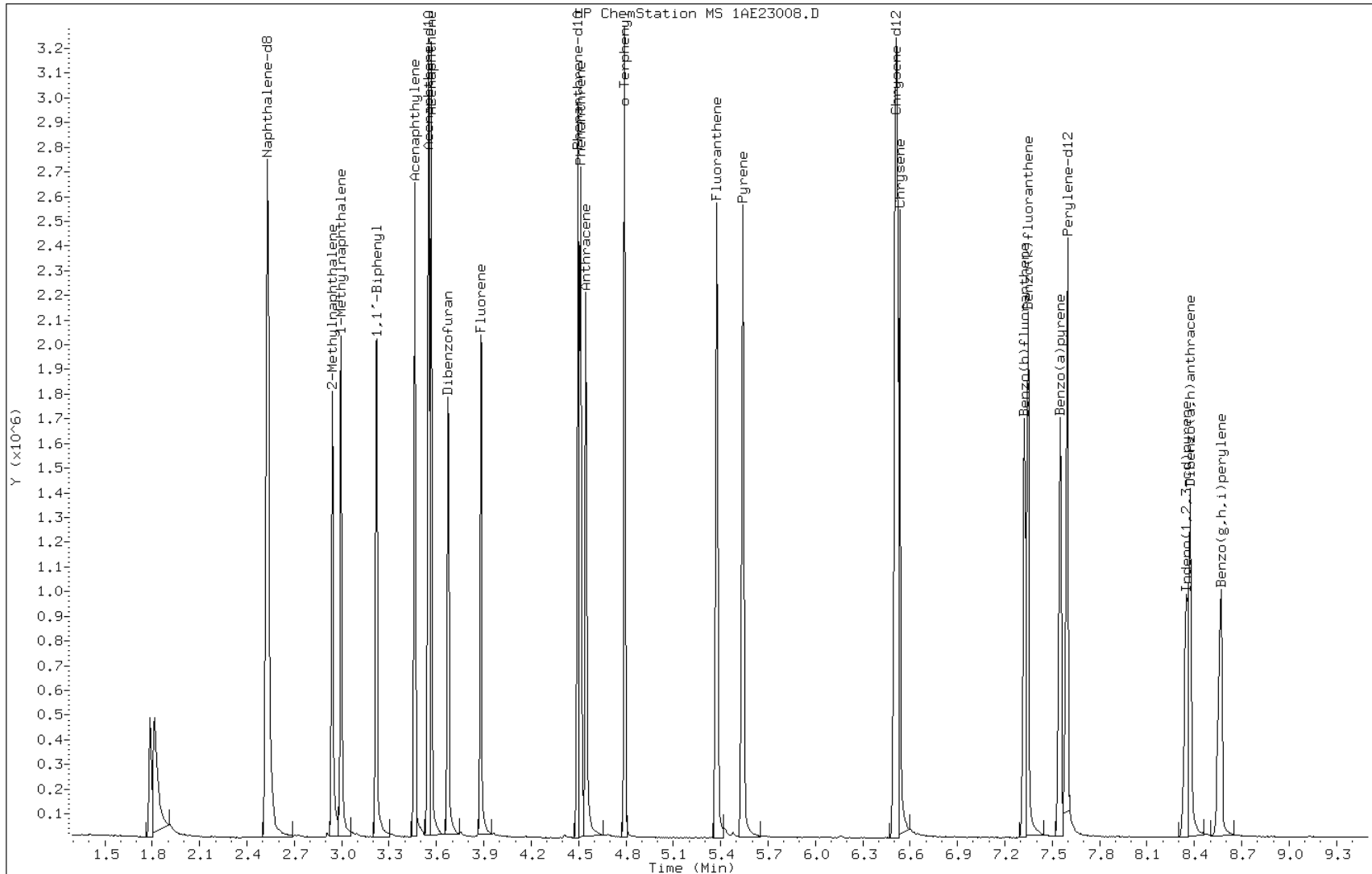
Date: 23-MAY-2013 14:07

Client ID:

Instrument: BSMA5973.i

Sample Info: IC6

Operator: SCC

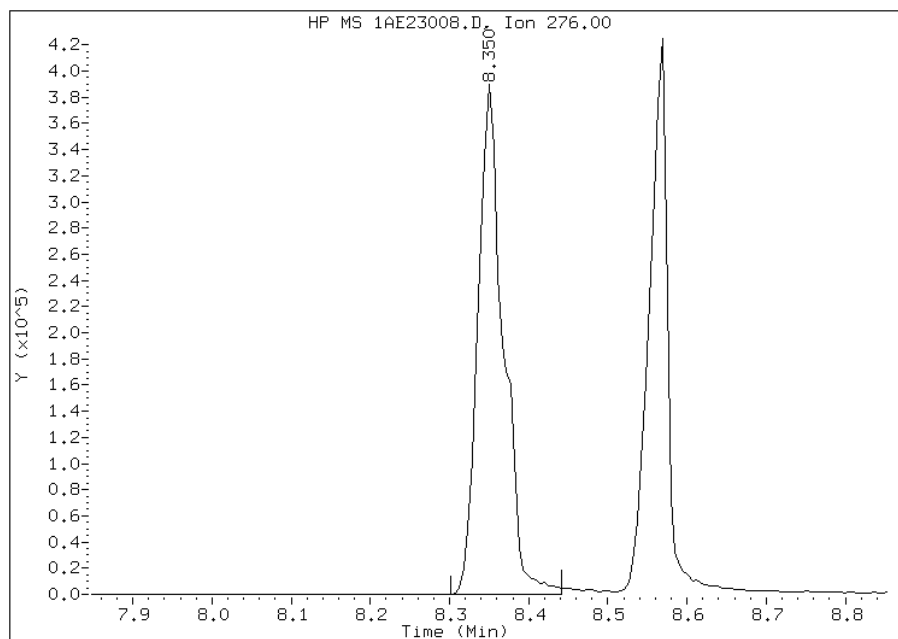


Manual Integration Report

Data File: 1AE23008.D
Inj. Date and Time: 23-MAY-2013 14:07
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

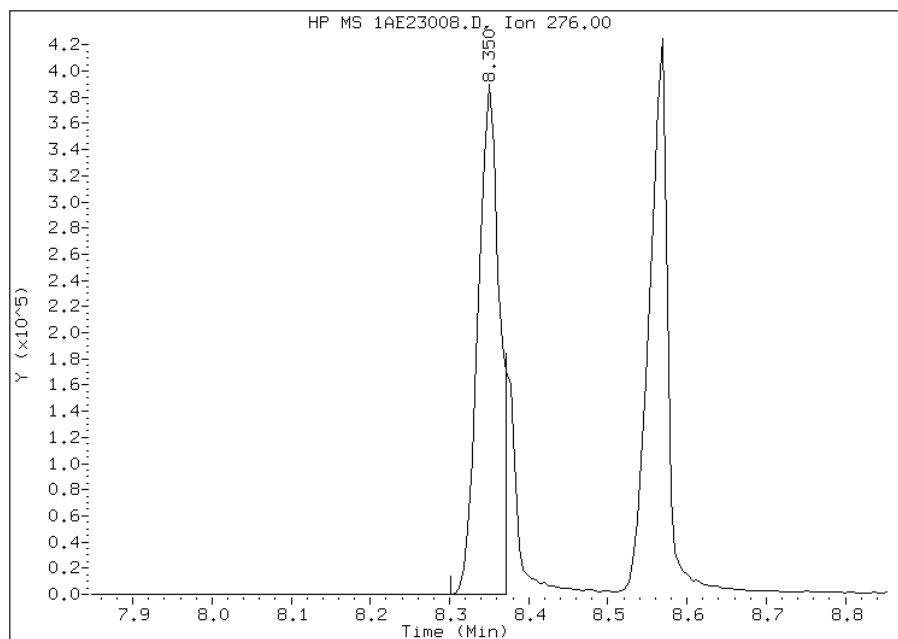
Processing Integration Results

RT: 8.35
Response: 864142
Amount: 38
Conc: 38



Manual Integration Results

RT: 8.35
Response: 737791
Amount: 36
Conc: 36



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:20
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23009.D
 Lab Smp Id: IC7
 Inj Date : 23-MAY-2013 14:22
 Operator : SCC
 Smp Info : IC7
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23009.D
 Meth Date : 23-May-2013 15:24 BSMA5973.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:07 Cal File: 1AE23008.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/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.528	2.527	(1.000)	1105637	40.0000	
* 7 Acenaphthene-d10	164	3.548	3.548	(1.000)	607648	40.0000	
* 11 Phenanthrene-d10	188	4.499	4.498	(1.000)	1090491	40.0000	
\$ 15 o-Terphenyl	230	4.793	4.792	(1.065)	823523	50.0000	52.2134(A)
* 19 Chrysene-d12	240	6.519	6.512	(1.000)	1136032	40.0000	
* 24 Perylene-d12	264	7.603	7.602	(1.000)	1004032	40.0000	
2 Naphthalene	128	2.539	2.538	(1.004)	1280321	50.0000	51.1456(A)
3 2-Methylnaphthalene	141	2.939	2.938	(1.163)	685933	50.0000	57.5495(A)
4 1-Methylnaphthalene	142	2.998	2.992	(1.186)	849768	50.0000	48.8111
5 1,1'-Biphenyl	154	3.223	3.216	(1.275)	1069731	50.0000	55.0080(A)
6 Acenaphthylene	152	3.463	3.462	(0.976)	1340229	50.0000	50.4083(A)
8 Acenaphthene	154	3.570	3.569	(1.006)	760793	50.0000	53.5374(A)
9 Dibenzofuran	168	3.677	3.670	(1.036)	1198945	50.0000	55.1088(AM)
10 Fluorene	166	3.885	3.879	(1.095)	882399	50.0000	53.4892(A)
12 Phenanthrene	178	4.515	4.509	(1.004)	1282695	50.0000	52.2273(A)
13 Anthracene	178	4.553	4.546	(1.012)	1318603	50.0000	51.3214(A)
16 Fluoranthene	202	5.381	5.375	(1.196)	1609879	50.0000	52.4998(AM)
17 Pyrene	202	5.546	5.540	(0.851)	1740175	50.0000	50.8345(AM)
18 Benzo(a)anthracene	228	6.508	6.502	(0.998)	1601449	50.0000	47.9896
20 Chrysene	228	6.540	6.534	(1.003)	1576406	50.0000	51.9811(AM)
21 Benzo(b)fluoranthene	252	7.331	7.319	(0.964)	1598808	50.0000	64.1772(A)
22 Benzo(k)fluoranthene	252	7.357	7.346	(0.968)	1645861	50.0000	49.2701(M)
23 Benzo(a)pyrene	252	7.560	7.549	(0.994)	1379638	50.0000	56.3300(A)
25 Indeno(1,2,3-cd)pyrene	276	8.372	8.355	(1.101)	1297265	50.0000	60.2413(AM)
26 Dibenzo(a,h)anthracene	278	8.388	8.377	(1.103)	1284475	50.0000	61.0986(A)
27 Benzo(g,h,i)perylene	276	8.586	8.569	(1.129)	1188762	50.0000	55.1790(AM)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: 1AE23009.D

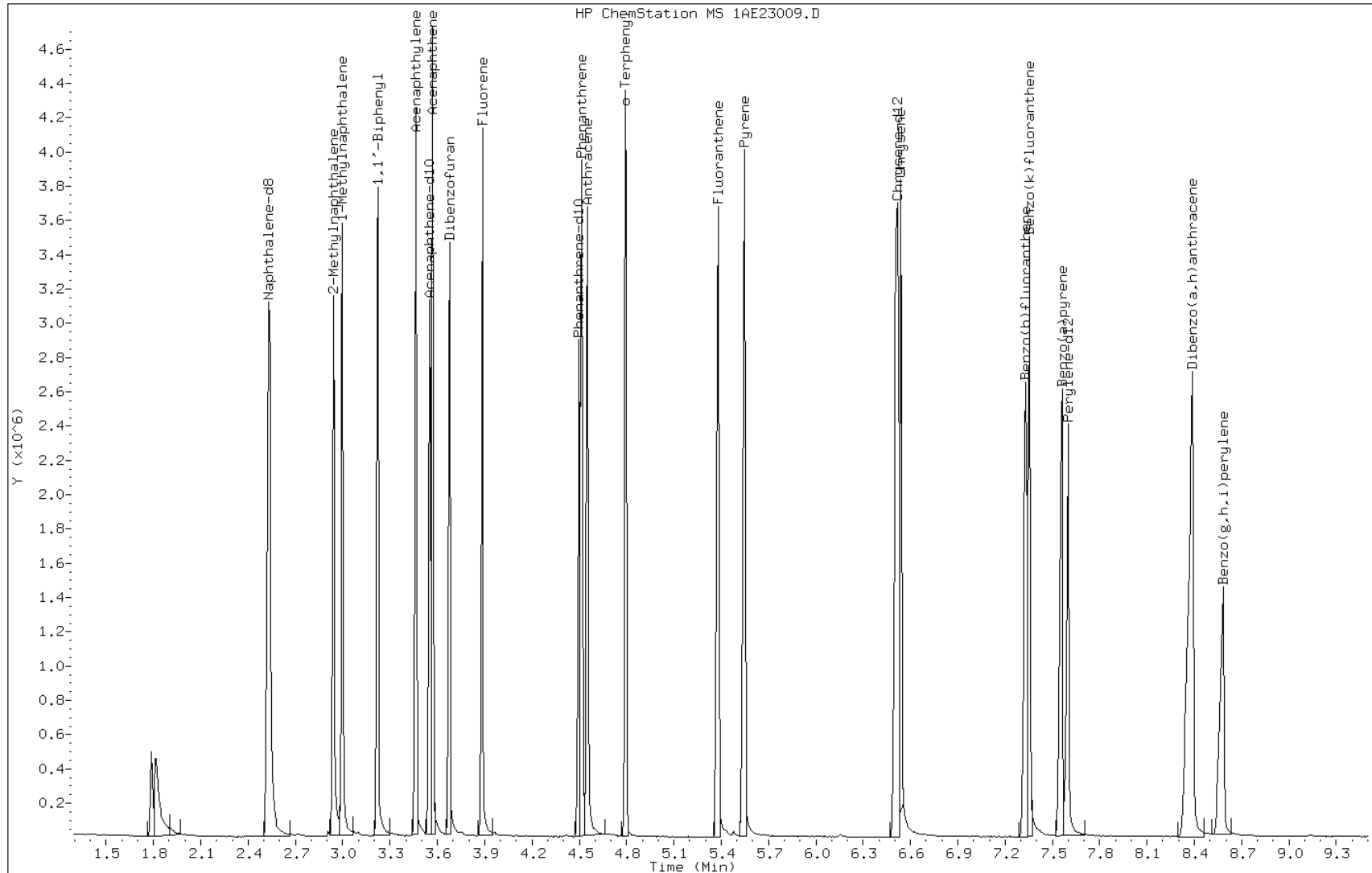
Date: 23-MAY-2013 14:22

Client ID:

Instrument: BSMA5973.i

Sample Info: IC7

Operator: SCC

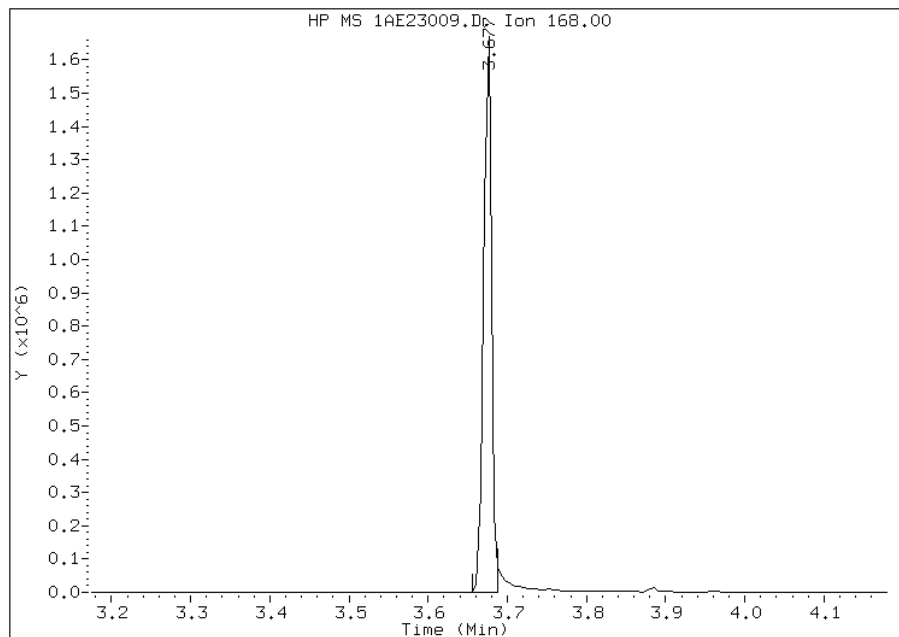


Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 9 Dibenzofuran
CAS #: 132-64-9
Report Date: 05/23/2013

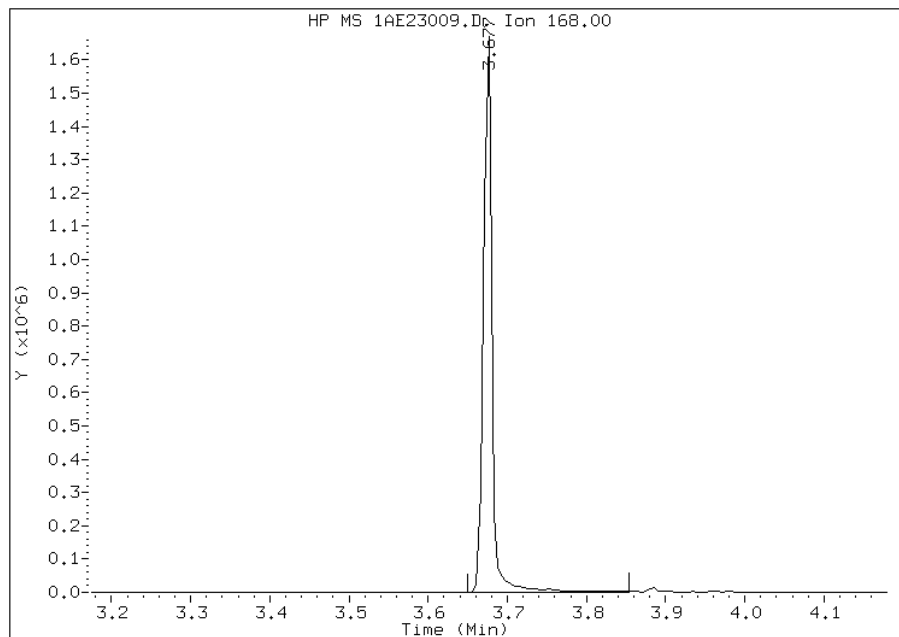
Processing Integration Results

RT: 3.68
Response: 1118636
Amount: 52
Conc: 52



Manual Integration Results

RT: 3.68
Response: 1198945
Amount: 55
Conc: 55



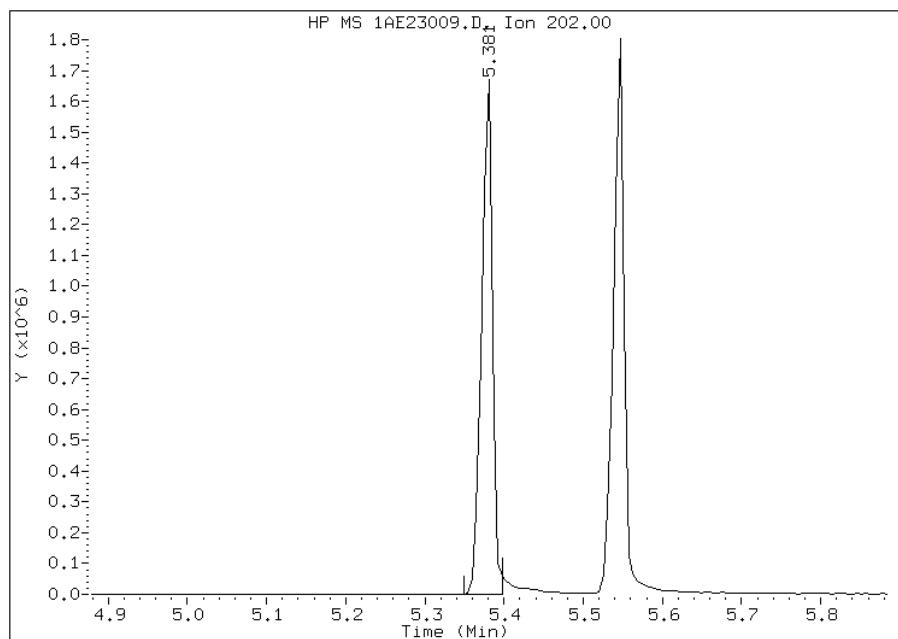
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

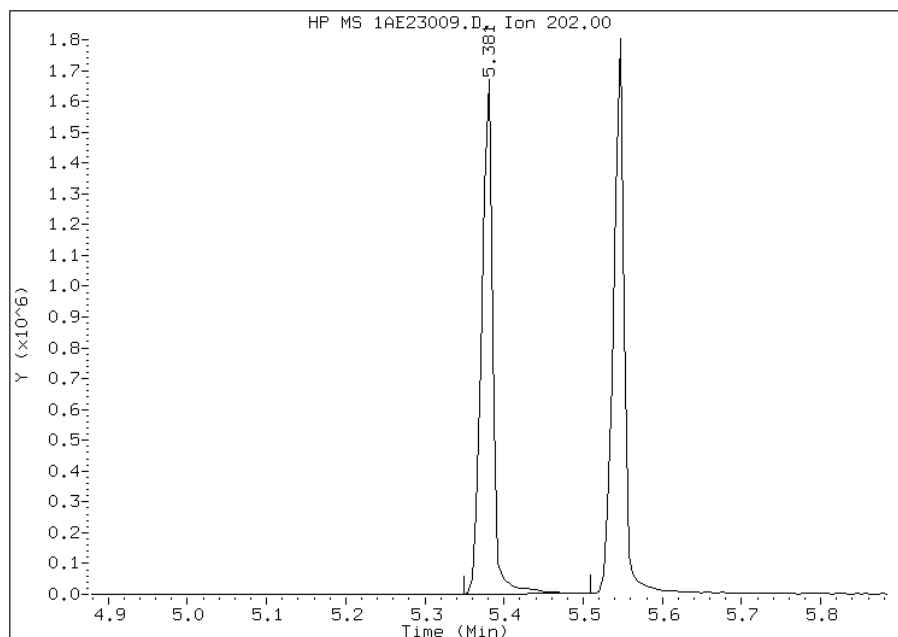
Processing Integration Results

RT: 5.38
Response: 1542304
Amount: 51
Conc: 51



Manual Integration Results

RT: 5.38
Response: 1609879
Amount: 52
Conc: 52



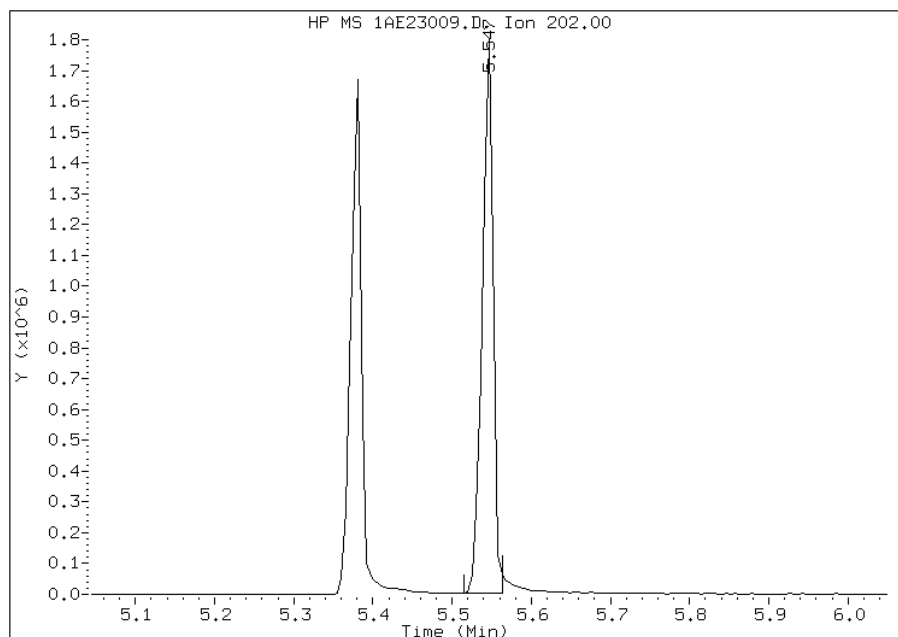
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/23/2013

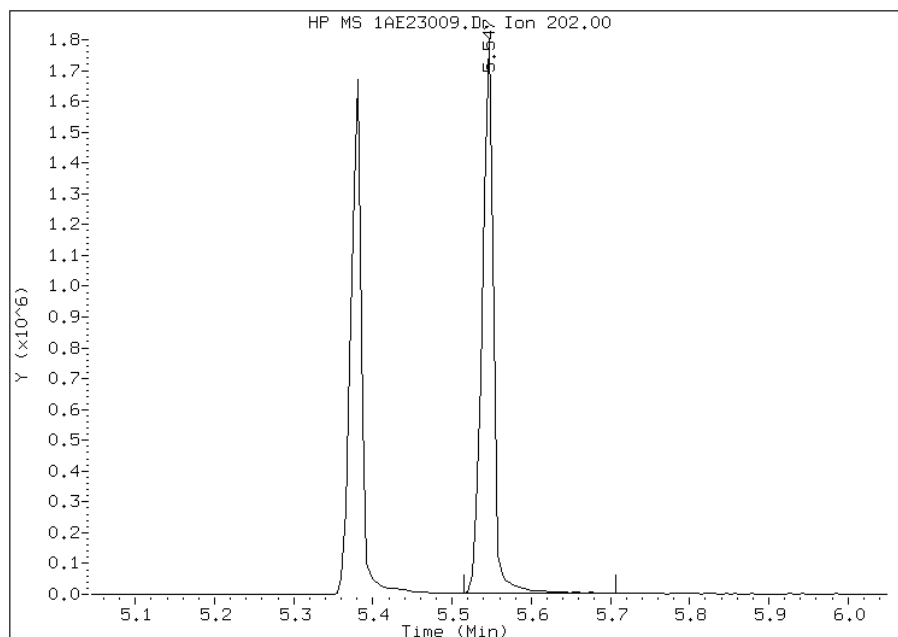
Processing Integration Results

RT: 5.55
Response: 1660017
Amount: 49
Conc: 49



Manual Integration Results

RT: 5.55
Response: 1740175
Amount: 51
Conc: 51



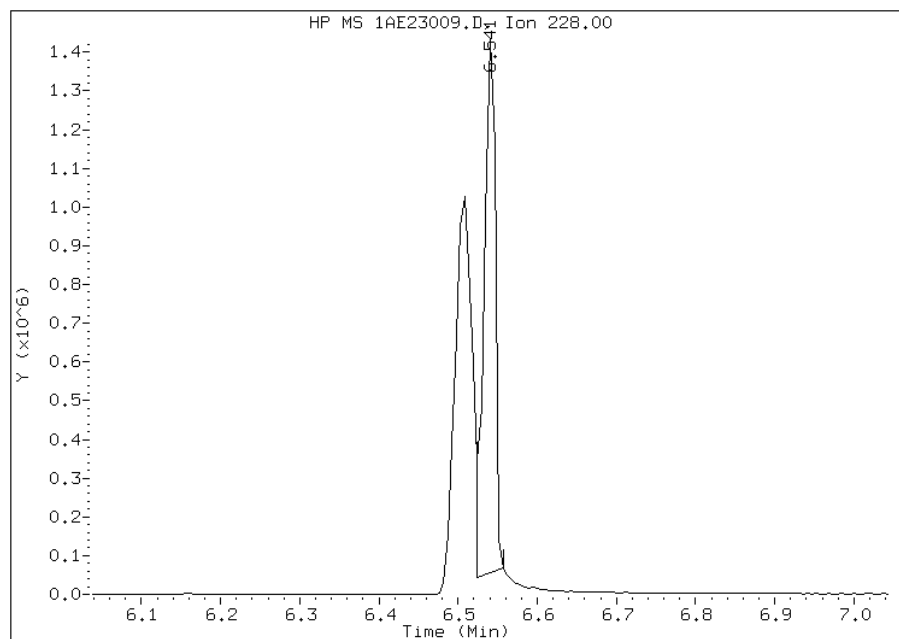
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/23/2013

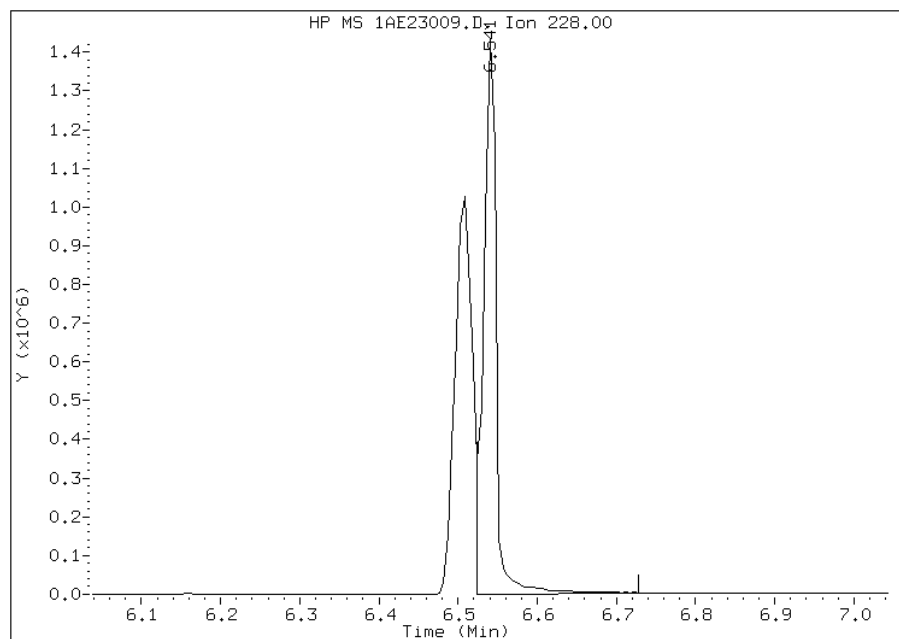
Processing Integration Results

RT: 6.54
Response: 1351932
Amount: 46
Conc: 46



Manual Integration Results

RT: 6.54
Response: 1576406
Amount: 52
Conc: 52



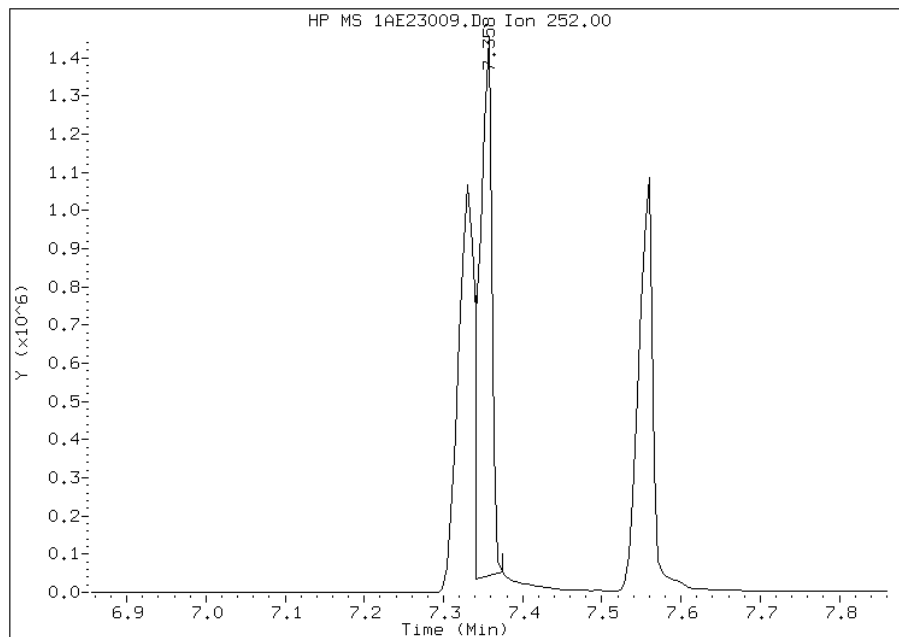
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

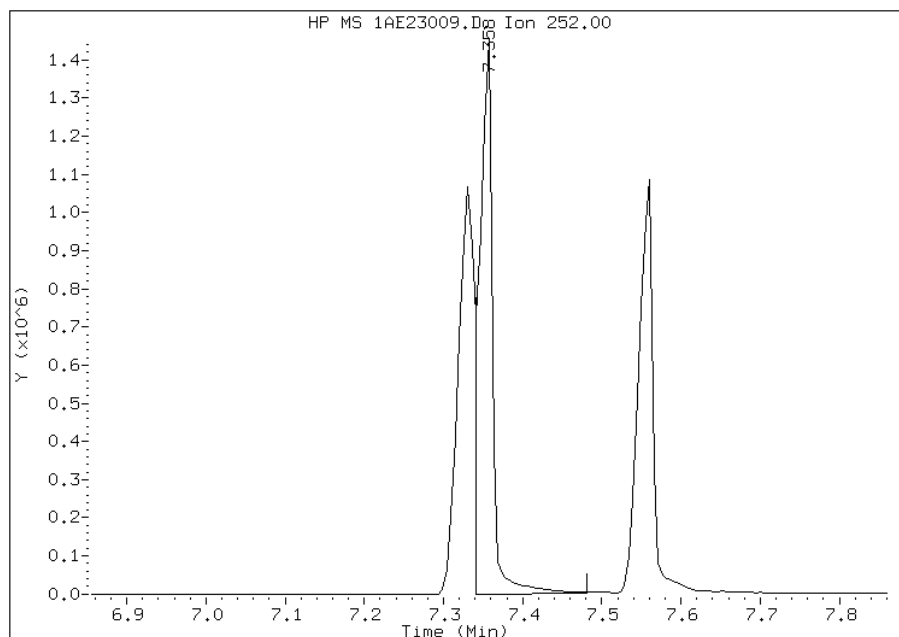
Processing Integration Results

RT: 7.36
Response: 1463035
Amount: 45
Conc: 45



Manual Integration Results

RT: 7.36
Response: 1645861
Amount: 49
Conc: 49



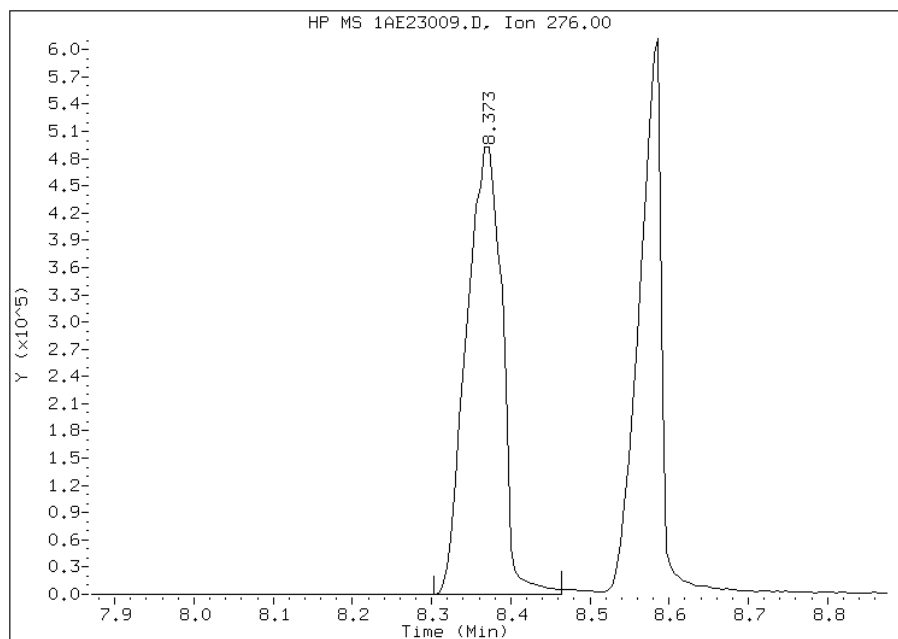
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/23/2013

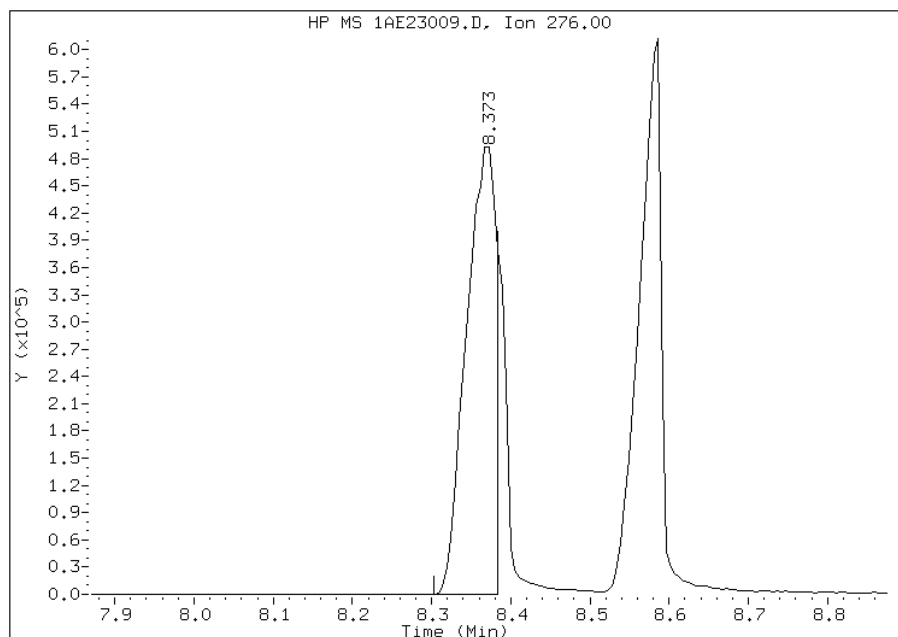
Processing Integration Results

RT: 8.37
Response: 1539152
Amount: 63
Conc: 63



Manual Integration Results

RT: 8.37
Response: 1297265
Amount: 60
Conc: 60



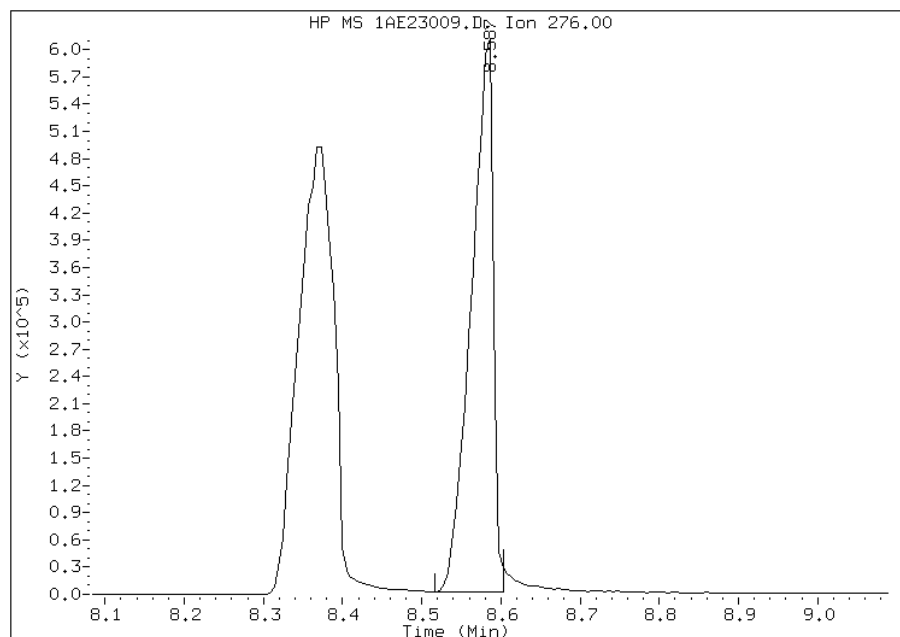
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE23009.D
Inj. Date and Time: 23-MAY-2013 14:22
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/23/2013

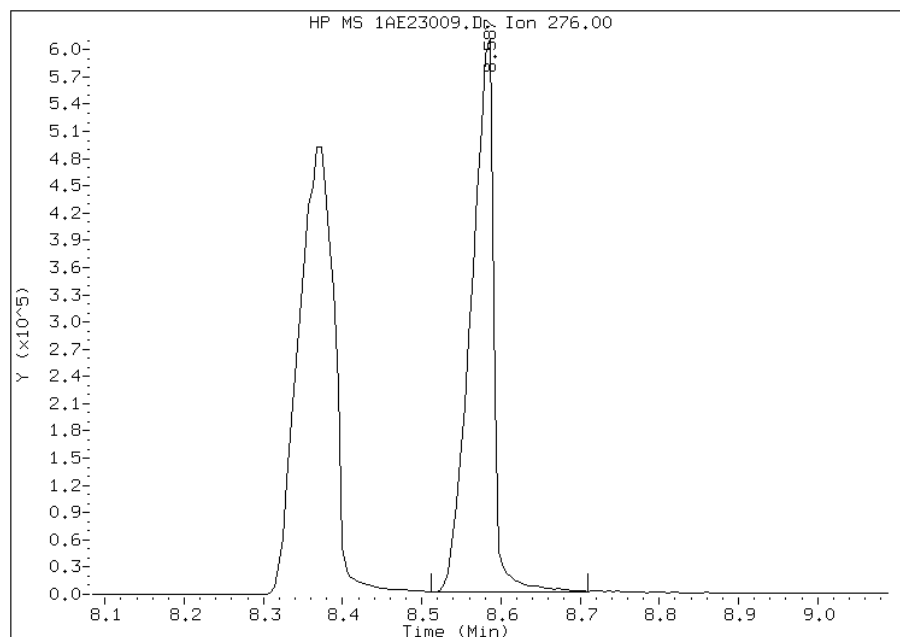
Processing Integration Results

RT: 8.59
Response: 1153917
Amount: 55
Conc: 55



Manual Integration Results

RT: 8.59
Response: 1188762
Amount: 55
Conc: 55



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:19
Manual Integration Reason: Baseline Event

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

Lab Name: TestAmerica Tampa Job No.: 680-90686-1 Analy Batch No.: 137830

SDG No.: 68090686-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.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	1.0062 0.9726	0.9995 0.9719	0.9558	1.0008	0.9980	Ave	0.9864			0.0000	2.0		15.0				
2-Methylnaphthalene	0.5749 0.6384	0.6206 0.6316	0.6261	0.6587	0.6461	Ave	0.6281			0.0000	4.2		15.0				
1-Methylnaphthalene	0.6241 0.6428	0.6597 0.6342	0.6383	0.6735	0.6535	Ave	0.6466			0.0000	2.6		15.0				
1,1'-Biphenyl	1.2558 1.3810	1.3151 1.3708	1.3286	1.4157	1.3930	Ave	1.3514				4.1						
Acenaphthylene	1.3107 1.7873	1.5063 1.7667	1.6358	1.8042	1.7982	Ave	1.6585			0.0000	11.4		15.0				
Acenaphthene	1.0464 1.0507	1.0487 1.0375	1.0260	1.0949	1.0603	Ave	1.0521			0.0000	2.1		15.0				
Dibenzofuran	1.3261 1.4810	1.4516 1.4633	1.4312	1.5056	1.4959	Ave	1.4507				4.2						
Fluorene	1.0233 1.2432	1.1470 1.2316	1.1838	1.2557	1.2481	Ave	1.1904			0.0000	7.0		15.0				
Phenanthrene	1.0916 1.0740	1.0736 1.0745	1.0516	1.1171	1.1008	Ave	1.0833			0.0000	2.0		15.0				
Anthracene	0.9060 1.1005	0.9896 1.0935	1.0526	1.1103	1.1055	Ave	1.0511			0.0000	7.3		15.0				
Fluoranthene	0.9193 1.1786	1.0180 1.1788	1.1083	1.1809	1.1741	Ave	1.1083			0.0000	9.3		15.0				
Pyrene	1.0361 1.2269	1.1042 1.2137	1.1521	1.2414	1.2233	Ave	1.1711			0.0000	6.6		15.0				
Benzo[a]anthracene	1.5197 1.1551	1.1050 1.1845	1.0486	1.1333	1.1636	Ave	1.1871			0.0000	12.9		15.0				
Chrysene	1.2142 1.0365	1.0662 1.0434	1.0077	1.0774	1.0375	Ave	1.0690			0.0000	6.3		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.: 680-90686-1 Analy Batch No.: 137830

SDG No.: 68090686-1

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2013 13:03 Calibration End Date: 05/23/2013 15:19 Calibration ID: 2984

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[b]fluoranthene	0.7633 1.0884	0.8861 1.1593	0.9510	1.0666	1.0998	Ave		1.0021			0.0000	14.1		15.0			
Benzo[k]fluoranthene	0.8692 1.1506	0.9589 1.1556	1.0109	1.0979	1.1026	Ave		1.0494			0.0000	10.2		15.0			
Benzo[a]pyrene	0.5413 1.0390	0.7183 1.0772	0.8802	0.9909	1.0194	Lin2	0.0025	0.9921							0.9902		
Indeno[1,2,3-cd]pyrene	0.5529 1.0098	0.6923 1.1024	0.8483	0.9795	0.9683	None	0.0037	1.0397							0.9951		
Dibenz(a,h)anthracene	0.6360 0.9847	0.7785 1.0376	0.8706	0.9418	0.9751	Lin2	0.0018	0.9560							0.9948		
Benzo[g,h,i]perylene	0.7013 0.9827	0.8003 1.0289	0.8929	0.9688	0.9829	Ave		0.9083			0.0000	13.0		15.0			
o-Terphenyl	0.5334 0.6060	0.5610 0.6203	0.5678	0.6036	0.6100	Ave		0.5860			0.0000	5.5		15.0			

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

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

Lab Name: TestAmerica Tampa

Job No.: 680-90686-1

Analy B

SDG No.: 68090686-1

Instrument ID: BSMD5973

GC Column: DB-5MS

ID: 250 (um)

Heated

Calibration Start Date: 05/23/2013 13:03

Calibration End Date: 05/23/2013 15:19

Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-137830/3	1DE23003.D
Level 2	IC 660-137830/4	1DE23004.D
Level 3	IC 660-137830/5	1DE23005.D
Level 4	IC 660-137830/6	1DE23006.D
Level 5	ICIS 660-137830/7	1DE23007.D
Level 6	IC 660-137830/8	1DE23008.D
Level 7	IC 660-137830/9	1DE23009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	14052 2454439	67892 3854620	342402	771801	1601823	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	8029 1611089	42157 2505140	224268	507950	1036995	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	8716 1622169	44810 2515238	228660	519415	1048787	0.200 30.0	1 50
1,1'-Biphenyl	ANT	Ave	10365 1954075	52741 3029358	276490	620318	1271034	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	10818 2528965	60413 3904072	340416	790555	1640830	0.200 30.0	1 50
Acenaphthene	ANT	Ave	8637 1486714	42059 2292684	213507	479776	967502	0.200 30.0	1 50
Dibenzofuran	ANT	Ave	10945 2095529	58216 3233580	297831	659738	1364999	0.200 30.0	1 50
Fluorene	ANT	Ave	8446 1759028	46002 2721626	246360	550212	1138861	0.200 30.0	1 50
Phenanthrene	PHN	Ave	14705 2572622	71492 3974751	366377	818249	1690403	0.200 30.0	1 50
Anthracene	PHN	Ave	12204 2636003	65898 4044900	366727	813240	1697570	0.200 30.0	1 50
Fluoranthene	PHN	Ave	12384 2822979	67793 4360425	386131	864953	1802958	0.200 30.0	1 50
Pyrene	CRY	Ave	13459 2878307	72384 4398475	400281	887682	1840728	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	19741 2709801	72436 4292530	364317	810407	1750909	0.200 30.0	1 50
Chrysene	CRY	Ave	15772 2431700	69888 3781128	350103	770411	1561209	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	10089 2543308	60091 4185749	340701	782118	1676574	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	11489 2688538	65030 4172175	362152	805050	1680826	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Lin2	7155 2427727	48714 3889042	315324	726611	1554051	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	None	7308 2359651	46950 3980252	303899	718264	1476159	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Lin2	8406 2300940	52791 3746128	311908	690573	1486524	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	9269 2296193	54271 3714851	319890	710395	1498391	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	7185 1451630	37357 2294445	197816	442134	936684	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
None = No Calib Curve

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23003.D
 Lab Smp Id: IC1
 Inj Date : 23-MAY-2013 13:03
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC1
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	6.283	6.283	(1.000)	2793016	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1650729	40.0000	
* 11 Phenanthrene-d10	188	9.209	9.209	(1.000)	2694117	40.0000	
\$ 15 o-Terphenyl	230	9.520	9.520	(1.034)	7185	0.20000	0.18
* 19 Chrysene-d12	240	11.571	11.571	(1.000)	2598008	40.0000	
* 24 Perylene-d12	264	13.480	13.480	(1.000)	2643475	40.0000	
2 Naphthalene	128	6.307	6.307	(1.004)	14052	0.20000	0.20
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	8029	0.20000	0.18
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	8716	0.20000	0.19
5 1,1'-Biphenyl	154	7.441	7.441	(0.936)	10365	0.20000	0.32
6 Acenaphthylene	152	7.822	7.822	(0.984)	10818	0.20000	0.16
8 Acenaphthene	154	7.975	7.975	(1.003)	8637	0.20000	0.20
9 Dibenzofuran	168	8.128	8.128	(1.022)	10945	0.20000	0.18
10 Fluorene	166	8.416	8.416	(1.058)	8446	0.20000	0.17
12 Phenanthrene	178	9.227	9.227	(1.002)	14705	0.20000	0.20
13 Anthracene	178	9.268	9.268	(1.006)	12204	0.20000	0.17
16 Fluoranthene	202	10.208	10.208	(1.108)	12384	0.20000	0.16
17 Pyrene	202	10.396	10.396	(0.898)	13459	0.20000	0.18
18 Benzo(a)anthracene	228	11.559	11.559	(0.999)	19741	0.20000	0.26
20 Chrysene	228	11.594	11.594	(1.002)	15772	0.20000	0.23
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.957)	10089	0.20000	0.15
22 Benzo(k)fluoranthene	252	12.940	12.940	(0.960)	11489	0.20000	0.16
23 Benzo(a)pyrene	252	13.369	13.369	(0.992)	7155	0.20000	0.21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.120)	7308	0.20000	0.25(H)
26 Dibenzo(a,h)anthracene	278	15.149	15.149	(1.124)	8406	0.20000	0.20(M)
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.155)	9269	0.20000	0.15(MH)

QC Flag Legend

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

Data File: 1DE23003.D

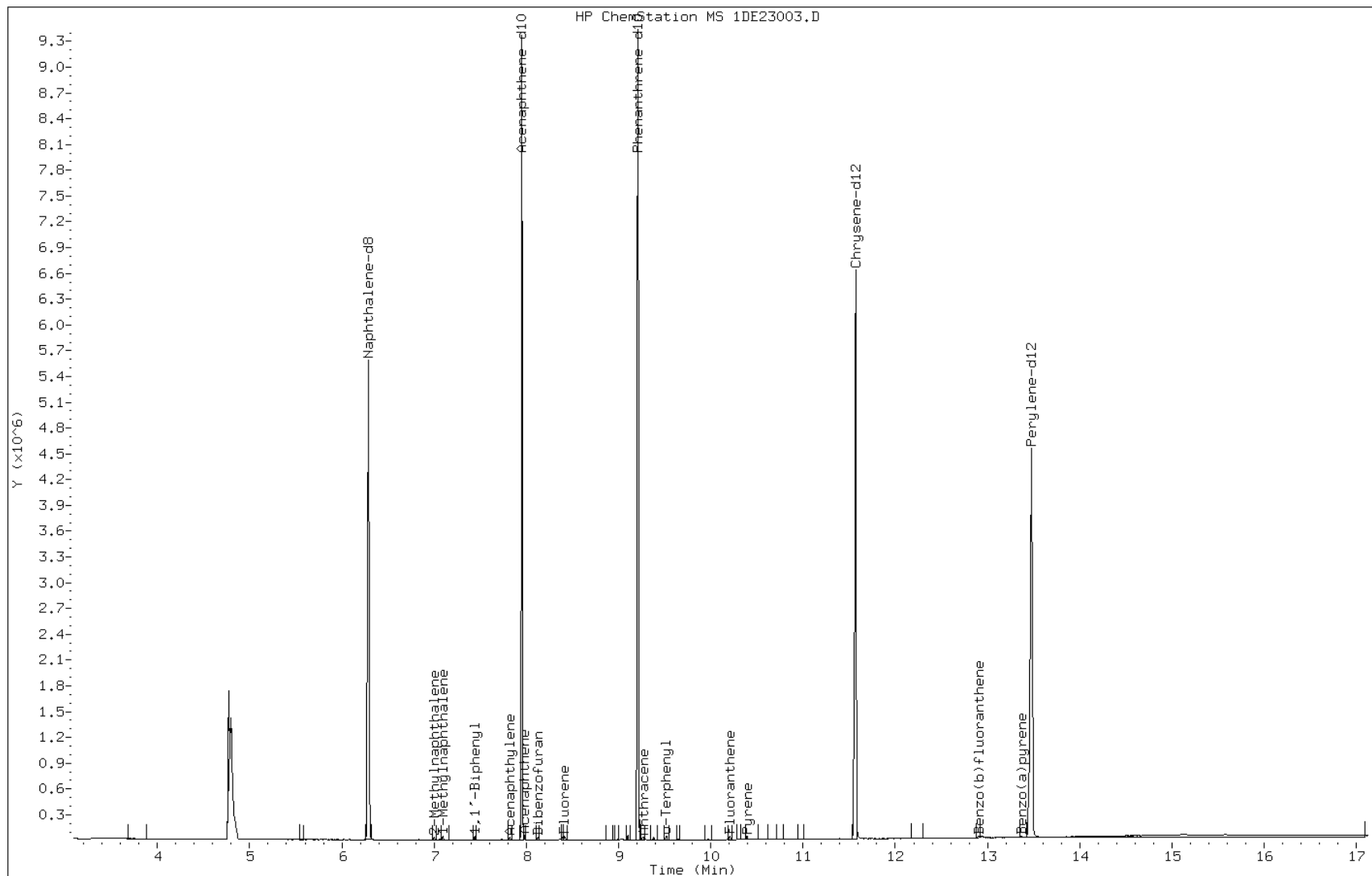
Date: 23-MAY-2013 13:03

Client ID:

Instrument: BSMSD.i

Sample Info: IC1

Operator: SCC

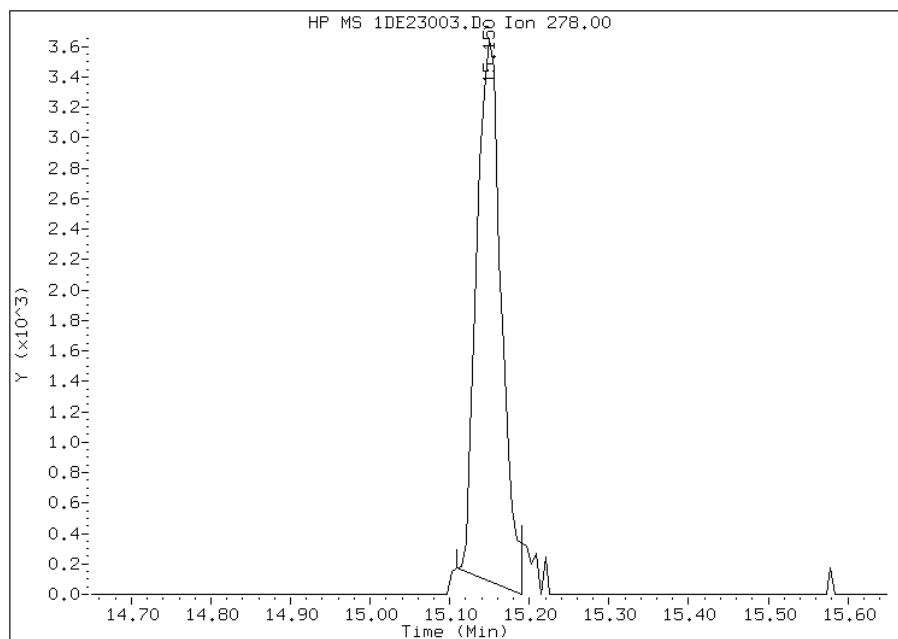


Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMDS.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/28/2013

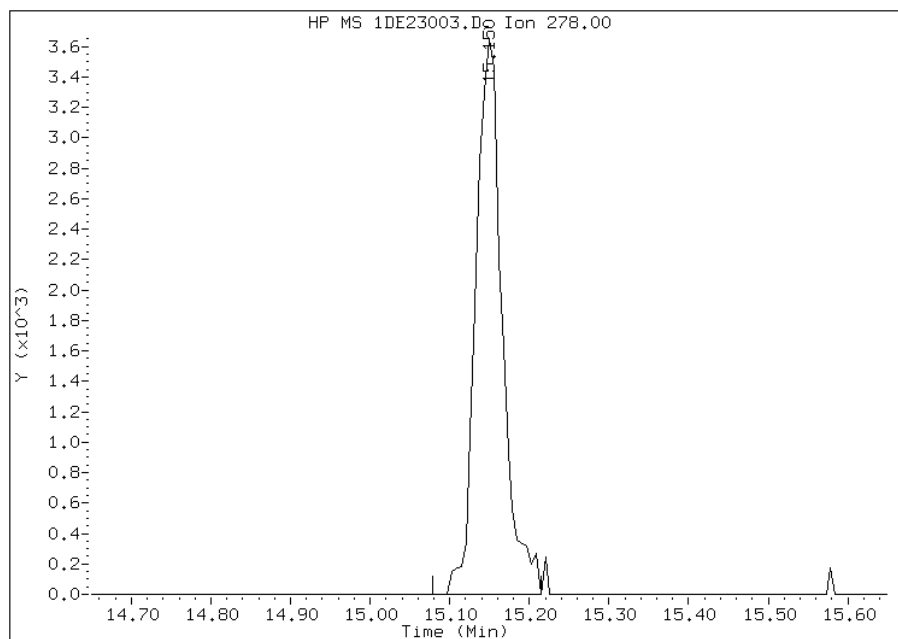
Processing Integration Results

RT: 15.15
Response: 7611
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.15
Response: 8406
Amount: 0
Conc: 0



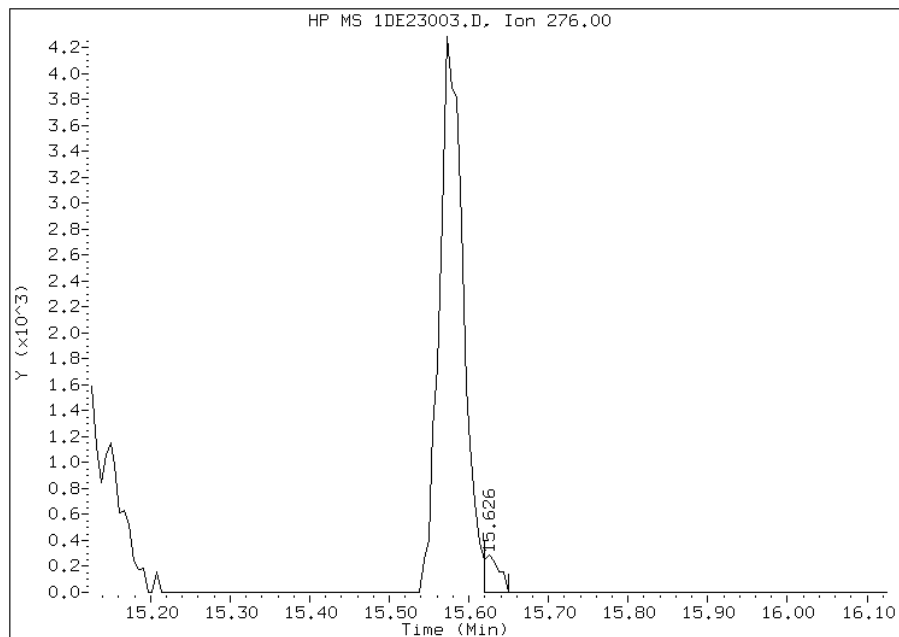
Manually Integrated By: cantins
Modification Date: 28-May-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DE23003.D
Inj. Date and Time: 23-MAY-2013 13:03
Instrument ID: BSMDS.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/28/2013

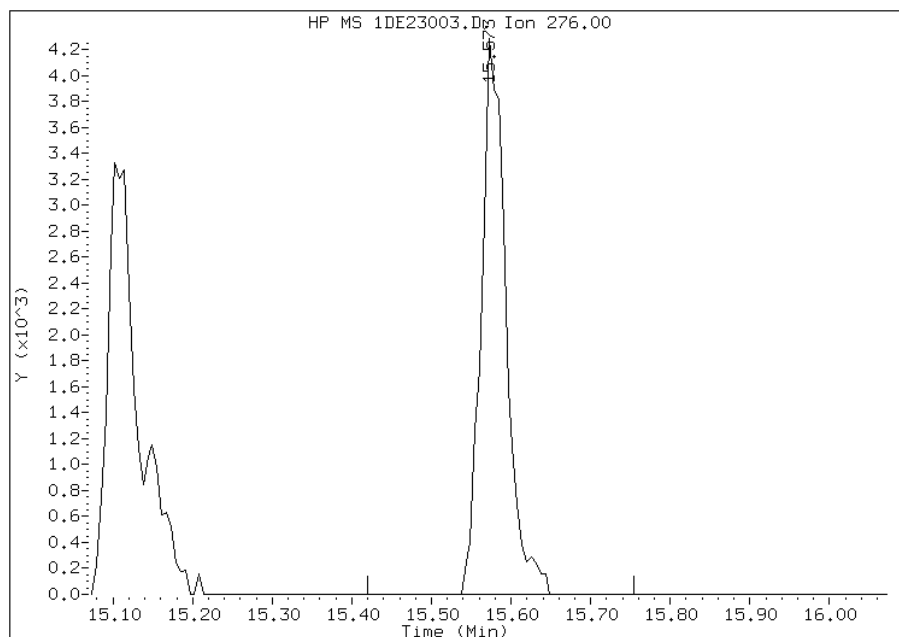
Processing Integration Results

RT: 15.63
Response: 387
Amount: 0
Conc: 0



Manual Integration Results

RT: 15.57
Response: 9269
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 28-May-2013 11:37
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23004.D
 Lab Smp Id: IC2
 Inj Date : 23-MAY-2013 13:26
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC2
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:03 Cal File: 1DE23003.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	6.283	6.283	(1.000)	2717054	40.0000	
* 7 Acenaphthene-d10	164	7.952	7.952	(1.000)	1604224	40.0000	
* 11 Phenanthrene-d10	188	9.203	9.203	(1.000)	2663694	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	37357	1.00000	0.96
* 19 Chrysene-d12	240	11.565	11.565	(1.000)	2622056	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2712615	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	67892	1.00000	1.0
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	42157	1.00000	0.99
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	44810	1.00000	1.0
5 1,1'-Biphenyl	154	7.435	7.435	(0.935)	52741	1.00000	1.6
6 Acenaphthylene	152	7.817	7.817	(0.983)	60413	1.00000	0.91
8 Acenaphthene	154	7.975	7.975	(1.003)	42059	1.00000	1.00
9 Dibenzofuran	168	8.122	8.122	(1.021)	58216	1.00000	1.0
10 Fluorene	166	8.416	8.416	(1.058)	46002	1.00000	0.96
12 Phenanthrene	178	9.221	9.221	(1.002)	71492	1.00000	0.99
13 Anthracene	178	9.262	9.262	(1.006)	65898	1.00000	0.94
16 Fluoranthene	202	10.202	10.202	(1.109)	67793	1.00000	0.92
17 Pyrene	202	10.390	10.390	(0.898)	72384	1.00000	0.94
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	72436	1.00000	0.93
20 Chrysene	228	11.589	11.589	(1.002)	69888	1.00000	1.00
21 Benzo(b)fluoranthene	252	12.899	12.899	(0.958)	60091	1.00000	0.88
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.960)	65030	1.00000	0.91
23 Benzo(a)pyrene	252	13.363	13.363	(0.992)	48714	1.00000	0.82
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.121)	46950	1.00000	0.81(H)
26 Dibenzo(a,h)anthracene	278	15.138	15.138	(1.124)	52791	1.00000	0.89
27 Benzo(g,h,i)perylene	276	15.567	15.567	(1.156)	54271	1.00000	0.88

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23004.D

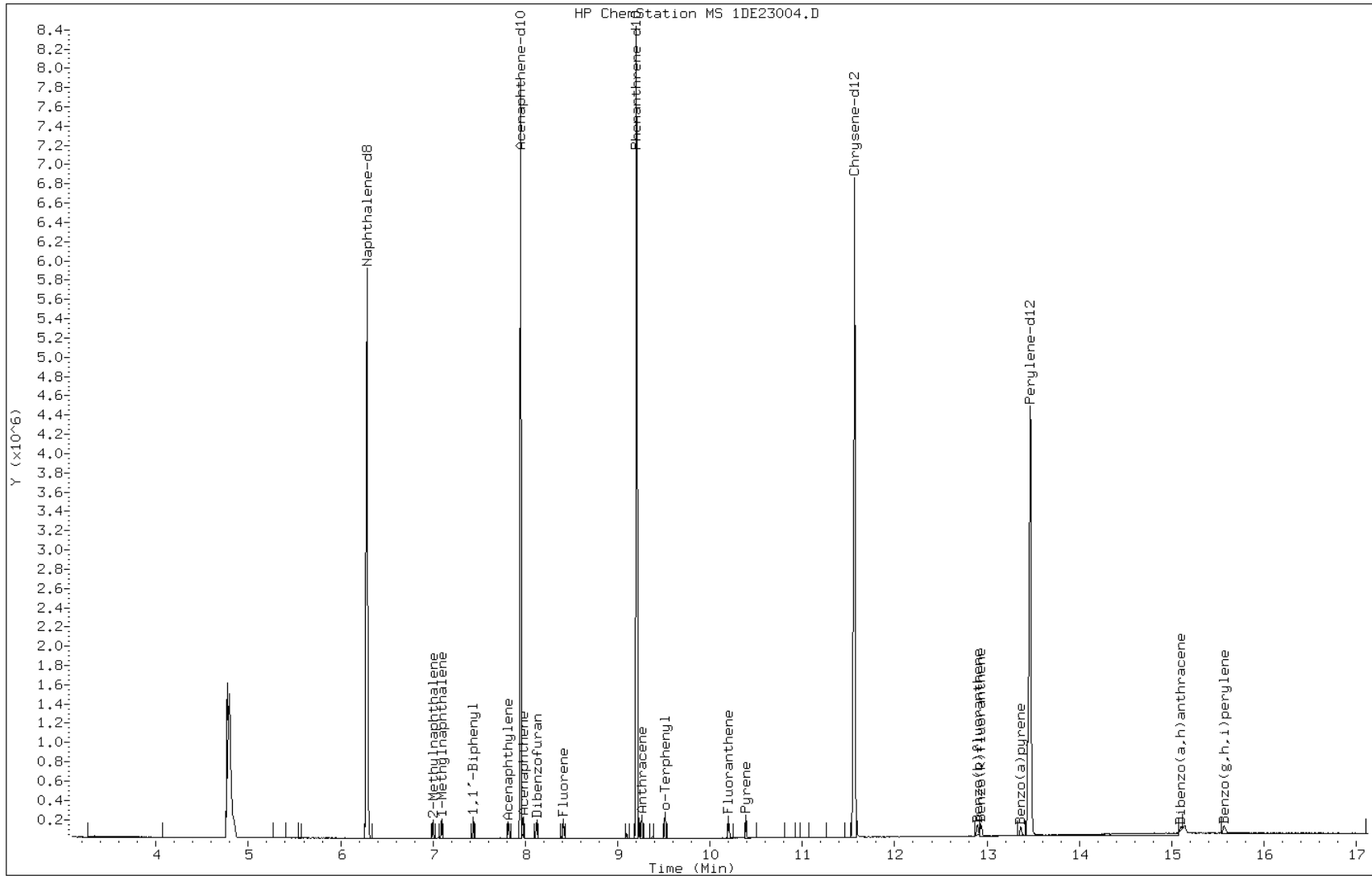
Date: 23-MAY-2013 13:26

Client ID:

Instrument: BSMSD.i

Sample Info: IC2

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23005.D
 Lab Smp Id: IC3
 Inj Date : 23-MAY-2013 13:48
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC3
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:26 Cal File: 1DE23004.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	6.280	6.280	(1.000)	2865774	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1664831	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	2787264	40.0000	
\$ 15 o-Terphenyl	230	9.512	9.512	(1.033)	197816	5.00000	4.8
* 19 Chrysene-d12	240	11.568	11.568	(1.000)	2779548	40.0000	
* 24 Perylene-d12	264	13.472	13.472	(1.000)	2866015	40.0000	
2 Naphthalene	128	6.304	6.304	(1.004)	342402	5.00000	4.8
3 2-Methylnaphthalene	142	6.997	6.997	(1.114)	224268	5.00000	5.0
4 1-Methylnaphthalene	142	7.091	7.091	(1.129)	228660	5.00000	4.9
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	276490	5.00000	7.2
6 Acenaphthylene	152	7.820	7.820	(0.984)	340416	5.00000	4.9
8 Acenaphthene	154	7.973	7.973	(1.003)	213507	5.00000	4.9
9 Dibenzofuran	168	8.119	8.119	(1.021)	297831	5.00000	4.9
10 Fluorene	166	8.413	8.413	(1.058)	246360	5.00000	5.0
12 Phenanthrene	178	9.224	9.224	(1.002)	366377	5.00000	4.8
13 Anthracene	178	9.265	9.265	(1.006)	366727	5.00000	5.0
16 Fluoranthene	202	10.205	10.205	(1.108)	386131	5.00000	5.0
17 Pyrene	202	10.393	10.393	(0.898)	400281	5.00000	4.9
18 Benzo(a)anthracene	228	11.551	11.551	(0.998)	364317	5.00000	4.4
20 Chrysene	228	11.592	11.592	(1.002)	350103	5.00000	4.7
21 Benzo(b)fluoranthene	252	12.902	12.902	(0.958)	340701	5.00000	4.7
22 Benzo(k)fluoranthene	252	12.937	12.937	(0.960)	362152	5.00000	4.8
23 Benzo(a)pyrene	252	13.366	13.366	(0.992)	315324	5.00000	4.5
25 Indeno(1,2,3-cd)pyrene	276	15.105	15.105	(1.121)	303899	5.00000	4.2(H)
26 Dibenzo(a,h)anthracene	278	15.146	15.146	(1.124)	311908	5.00000	4.6
27 Benzo(g,h,i)perylene	276	15.575	15.575	(1.156)	319890	5.00000	4.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DE23005.D

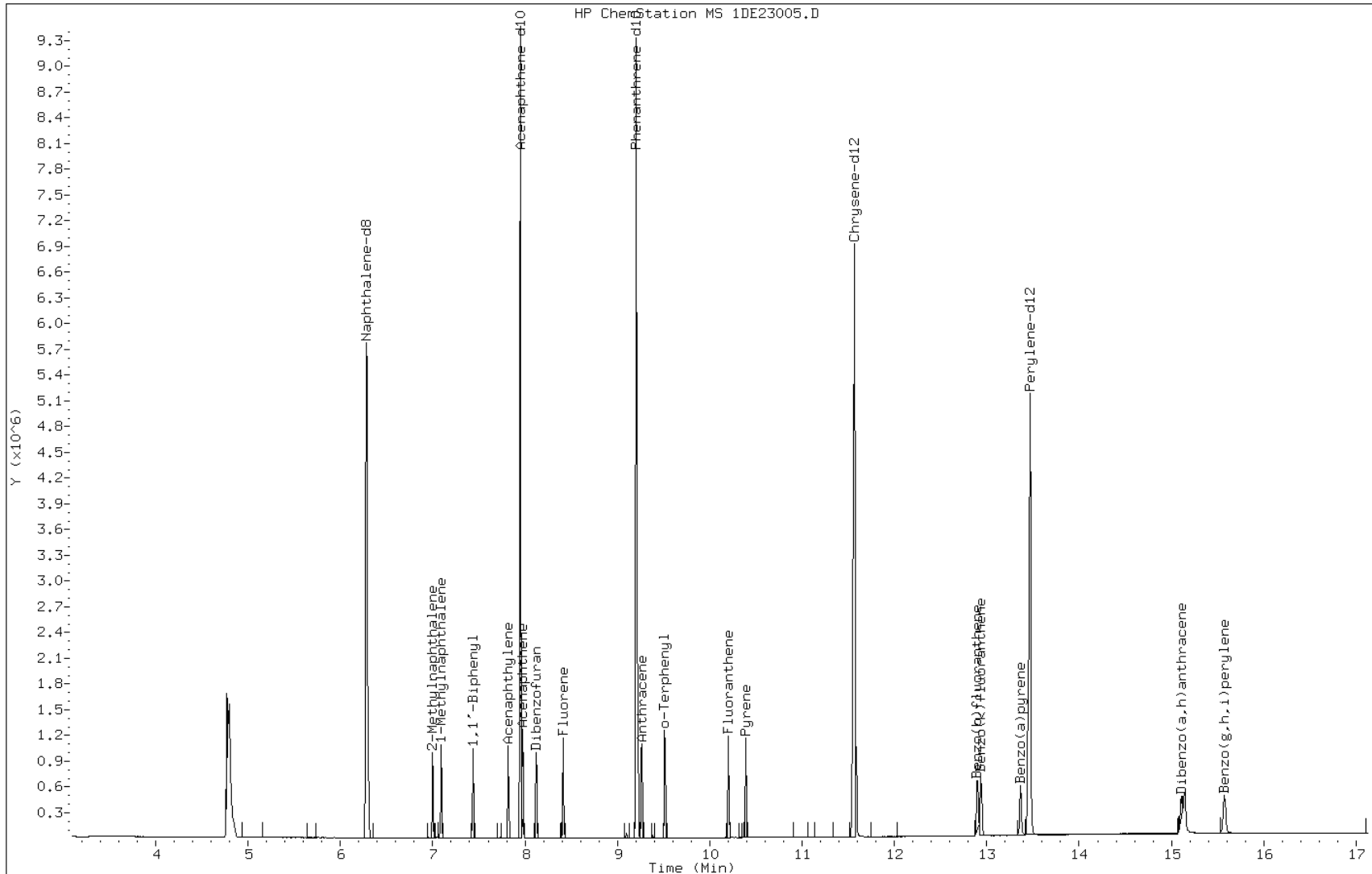
Date: 23-MAY-2013 13:48

Client ID:

Instrument: BSMSD.i

Sample Info: IC3

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23006.D
 Lab Smp Id: IC4
 Inj Date : 23-MAY-2013 14:11
 Operator : SCC
 Smp Info : IC4
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 13:48 Cal File: 1DE23005.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	6.284	6.284	(1.000)	3084725	40.0000	
* 7 Acenaphthene-d10	164	7.946	7.946	(1.000)	1752742	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	2929857	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	442134	10.0000	10
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	2860263	40.0000	
* 24 Perylene-d12	264	13.469	13.469	(1.000)	2933068	40.0000	
2 Naphthalene	128	6.301	6.301	(1.003)	771801	10.0000	10
3 2-Methylnaphthalene	142	7.000	7.000	(1.114)	507950	10.0000	10
4 1-Methylnaphthalene	142	7.094	7.094	(1.129)	519415	10.0000	10
5 1,1'-Biphenyl	154	7.435	7.435	(0.936)	620318	10.0000	14
6 Acenaphthylene	152	7.817	7.817	(0.984)	790555	10.0000	11
8 Acenaphthene	154	7.976	7.976	(1.004)	479776	10.0000	10
9 Dibenzofuran	168	8.123	8.123	(1.022)	659738	10.0000	10
10 Fluorene	166	8.416	8.416	(1.059)	550212	10.0000	10
12 Phenanthrene	178	9.221	9.221	(1.002)	818249	10.0000	10
13 Anthracene	178	9.263	9.263	(1.006)	813240	10.0000	10
16 Fluoranthene	202	10.203	10.203	(1.109)	864953	10.0000	11
17 Pyrene	202	10.391	10.391	(0.898)	887682	10.0000	11
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	810407	10.0000	9.5
20 Chrysene	228	11.589	11.589	(1.002)	770411	10.0000	10
21 Benzo(b)fluoranthene	252	12.905	12.905	(0.958)	782118	10.0000	11
22 Benzo(k)fluoranthene	252	12.941	12.941	(0.961)	805050	10.0000	10
23 Benzo(a)pyrene	252	13.369	13.369	(0.993)	726611	10.0000	10
25 Indeno(1,2,3-cd)pyrene	276	15.114	15.114	(1.122)	718264	10.0000	9.6
26 Dibenzo(a,h)anthracene	278	15.150	15.150	(1.125)	690573	10.0000	9.9
27 Benzo(g,h,i)perylene	276	15.585	15.585	(1.157)	710395	10.0000	11

Data File: 1DE23006.D

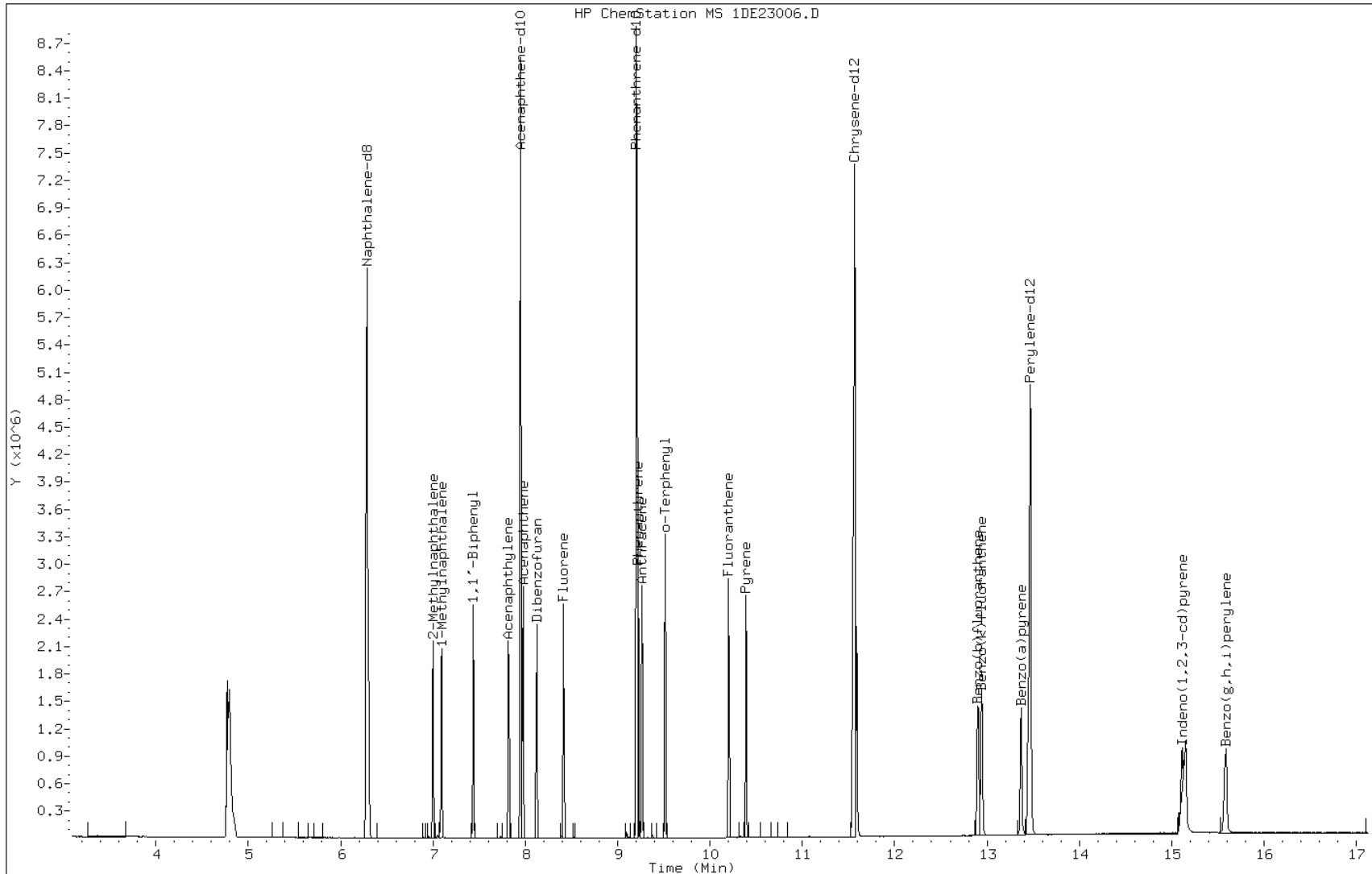
Date: 23-MAY-2013 14:11

Client ID:

Instrument: BSMSD.i

Sample Info: IC4

Operator: SCC



TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23007.D
 Lab Smp Id: ICIS
 Inj Date : 23-MAY-2013 14:33
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICIS
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dfASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:11 Cal File: 1DE23006.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	6.284	6.284	(1.000)	3209942	40.0000	
* 7 Acenaphthene-d10	164	7.947	7.947	(1.000)	1824950	40.0000	
* 11 Phenanthrene-d10	188	9.204	9.204	(1.000)	3071098	40.0000	
\$ 15 o-Terphenyl	230	9.515	9.515	(1.034)	936684	20.0000	21
* 19 Chrysene-d12	240	11.566	11.566	(1.000)	3009447	40.0000	
* 24 Perylene-d12	264	13.476	13.476	(1.000)	3048824	40.0000	
2 Naphthalene	128	6.302	6.302	(1.003)	1601823	20.0000	20
3 2-Methylnaphthalene	142	7.001	7.001	(1.114)	1036995	20.0000	20
4 1-Methylnaphthalene	142	7.095	7.095	(1.129)	1048787	20.0000	20
5 1,1'-Biphenyl	154	7.436	7.436	(0.936)	1271034	20.0000	26
6 Acenaphthylene	152	7.817	7.817	(0.984)	1640830	20.0000	22
8 Acenaphthene	154	7.976	7.976	(1.004)	967502	20.0000	20
9 Dibenzofuran	168	8.123	8.123	(1.022)	1364999	20.0000	21
10 Fluorene	166	8.417	8.417	(1.059)	1138861	20.0000	21
12 Phenanthrene	178	9.228	9.228	(1.003)	1690403	20.0000	20
13 Anthracene	178	9.263	9.263	(1.006)	1697570	20.0000	21
16 Fluoranthene	202	10.203	10.203	(1.109)	1802958	20.0000	21
17 Pyrene	202	10.397	10.397	(0.899)	1840728	20.0000	21
18 Benzo(a)anthracene	228	11.548	11.548	(0.998)	1750909	20.0000	20
20 Chrysene	228	11.595	11.595	(1.003)	1561209	20.0000	19
21 Benzo(b)fluoranthene	252	12.912	12.912	(0.958)	1676574	20.0000	22
22 Benzo(k)fluoranthene	252	12.953	12.953	(0.961)	1680826	20.0000	21
23 Benzo(a)pyrene	252	13.376	13.376	(0.993)	1554051	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.127	15.127	(1.123)	1476159	20.0000	19
26 Dibenzo(a,h)anthracene	278	15.162	15.162	(1.125)	1486524	20.0000	20
27 Benzo(g,h,i)perylene	276	15.602	15.602	(1.158)	1498391	20.0000	22

Data File: 1DE23007.D

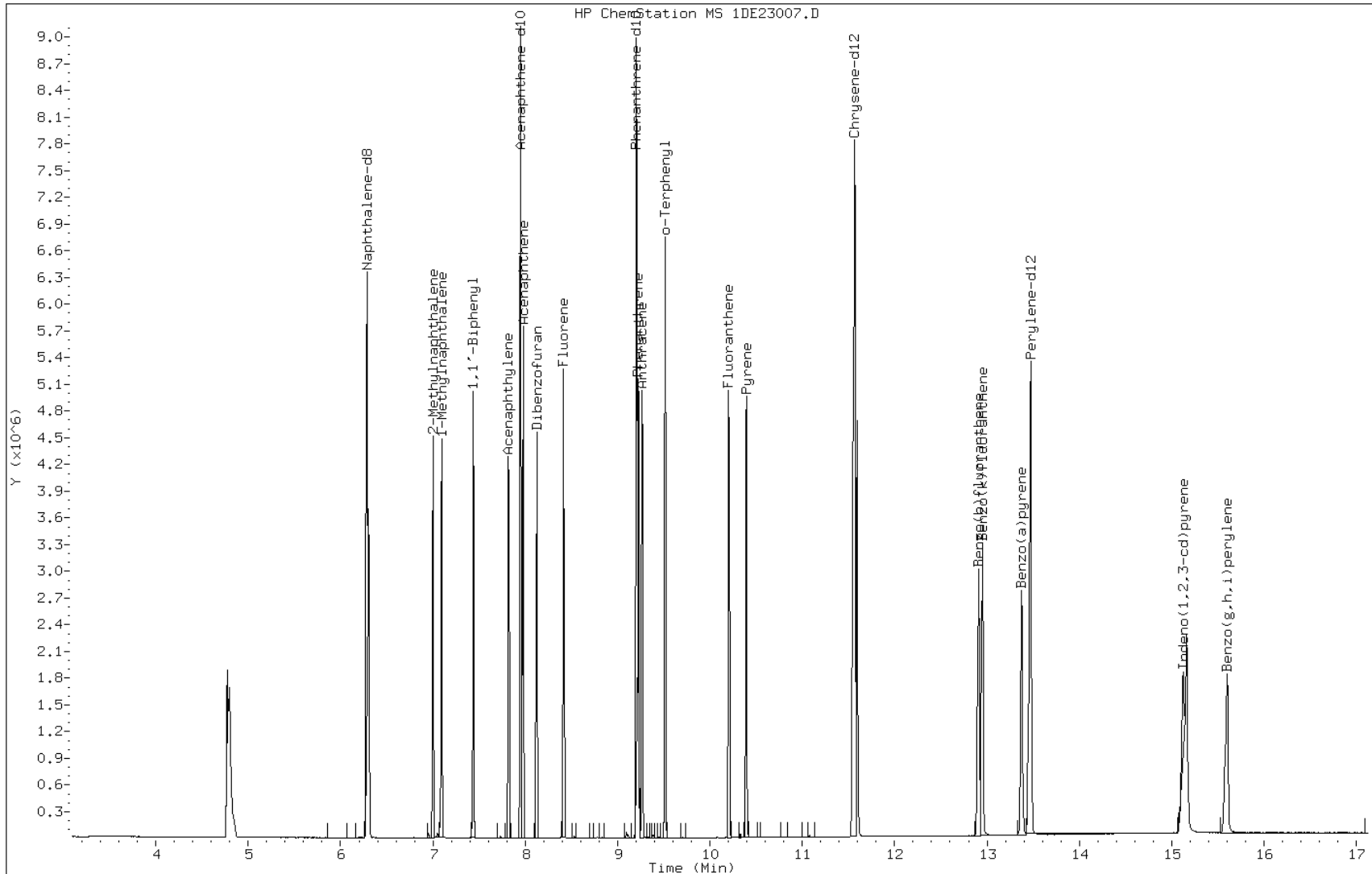
Date: 23-MAY-2013 14:33

Client ID:

Instrument: BSMSD.i

Sample Info: ICIS

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23008.D
 Lab Smp Id: IC6
 Inj Date : 23-MAY-2013 14:56
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC6
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:33 Cal File: 1DE23007.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	6.286	6.286	(1.000)	3364617	40.0000	
* 7 Acenaphthene-d10	164	7.949	7.949	(1.000)	1886585	40.0000	
* 11 Phenanthrene-d10	188	9.206	9.206	(1.000)	3193681	40.0000	
\$ 15 o-Terphenyl	230	9.518	9.518	(1.034)	1451630	30.0000	31
* 19 Chrysene-d12	240	11.574	11.574	(1.000)	3127987	40.0000	
* 24 Perylene-d12	264	13.478	13.478	(1.000)	3115576	40.0000	
2 Naphthalene	128	6.304	6.304	(1.003)	2454439	30.0000	30
3 2-Methylnaphthalene	142	7.003	7.003	(1.114)	1611089	30.0000	30
4 1-Methylnaphthalene	142	7.097	7.097	(1.129)	1622169	30.0000	30
5 1,1'-Biphenyl	154	7.438	7.438	(0.936)	1954075	30.0000	35
6 Acenaphthylene	152	7.820	7.820	(0.984)	2528965	30.0000	32
8 Acenaphthene	154	7.978	7.978	(1.004)	1486714	30.0000	30
9 Dibenzofuran	168	8.125	8.125	(1.022)	2095529	30.0000	31
10 Fluorene	166	8.419	8.419	(1.059)	1759028	30.0000	31
12 Phenanthrene	178	9.230	9.230	(1.003)	2572622	30.0000	30
13 Anthracene	178	9.271	9.271	(1.007)	2636003	30.0000	31
16 Fluoranthene	202	10.211	10.211	(1.109)	2822979	30.0000	32
17 Pyrene	202	10.399	10.399	(0.898)	2878307	30.0000	31
18 Benzo(a)anthracene	228	11.557	11.557	(0.998)	2709801	30.0000	29
20 Chrysene	228	11.598	11.598	(1.002)	2431700	30.0000	29
21 Benzo(b)fluoranthene	252	12.914	12.914	(0.958)	2543308	30.0000	32
22 Benzo(k)fluoranthene	252	12.961	12.961	(0.962)	2688538	30.0000	33
23 Benzo(a)pyrene	252	13.384	13.384	(0.993)	2427727	30.0000	32
25 Indeno(1,2,3-cd)pyrene	276	15.135	15.135	(1.123)	2359651	30.0000	29
26 Dibenzo(a,h)anthracene	278	15.176	15.176	(1.126)	2300940	30.0000	31
27 Benzo(g,h,i)perylene	276	15.616	15.616	(1.159)	2296193	30.0000	32

Data File: 1DE23008.D

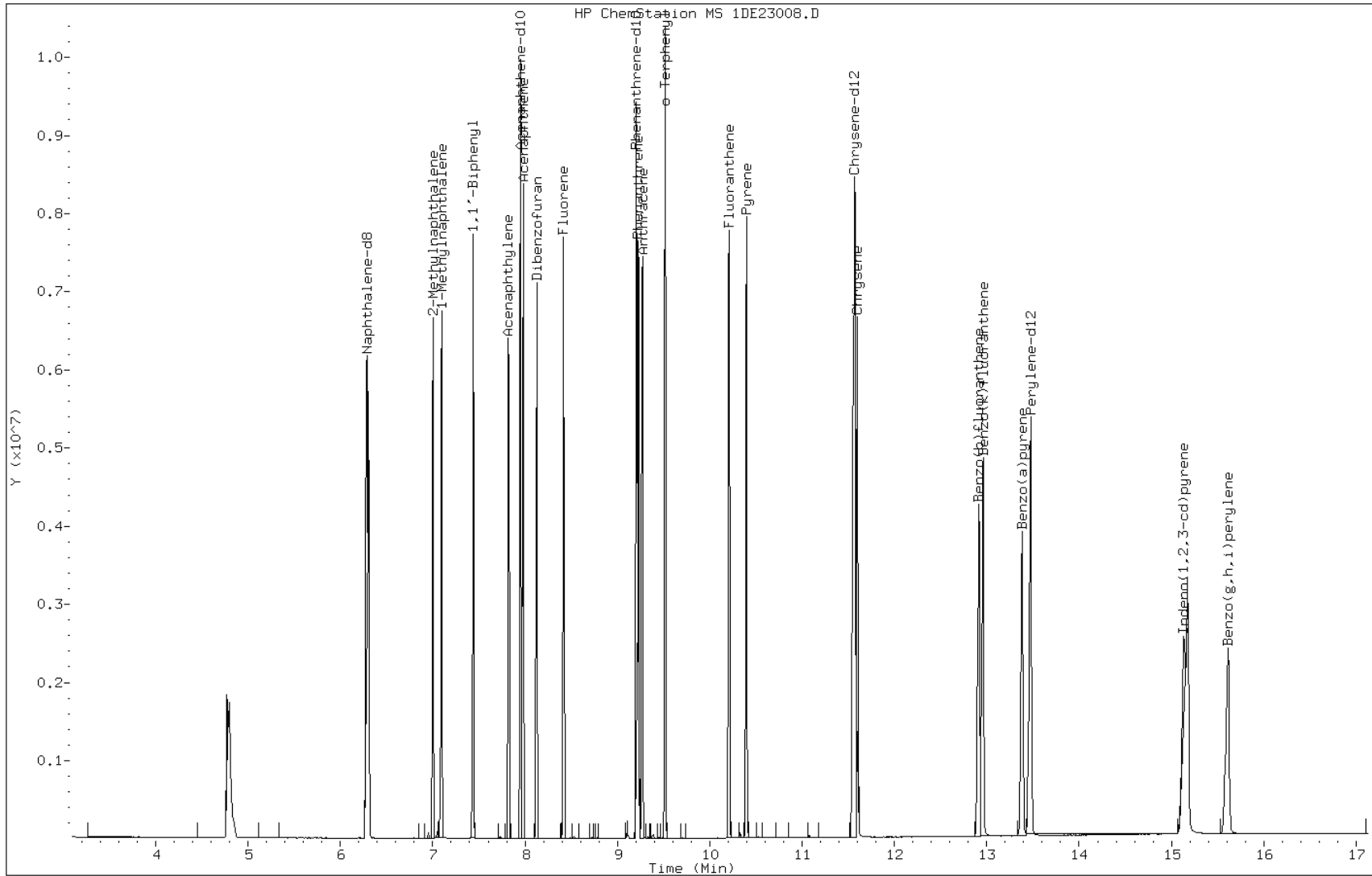
Date: 23-MAY-2013 14:56

Client ID:

Instrument: BSMDS.i

Sample Info: IC6

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23009.D
 Lab Smp Id: IC7
 Inj Date : 23-MAY-2013 15:19
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : IC7
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:56 Cal File: 1DE23008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Naphthalene-d8	====	136	6.283	6.283	(1.000)	3172868	40.0000	
* 7 Acenaphthene-d10	====	164	7.952	7.952	(1.000)	1767883	40.0000	
* 11 Phenanthrene-d10	====	188	9.209	9.209	(1.000)	2959275	40.0000	
\$ 15 o-Terphenyl	====	230	9.521	9.521	(1.034)	2294445	50.0000	53(A)
* 19 Chrysene-d12	====	240	11.577	11.577	(1.000)	2899179	40.0000	
* 24 Perylene-d12	====	264	13.481	13.481	(1.000)	2888367	40.0000	
2 Naphthalene	====	128	6.307	6.307	(1.004)	3854620	50.0000	49
3 2-Methylnaphthalene	====	142	7.006	7.006	(1.115)	2505140	50.0000	50(A)
4 1-Methylnaphthalene	====	142	7.100	7.100	(1.130)	2515238	50.0000	49
5 1,1'-Biphenyl	====	154	7.441	7.441	(0.936)	3029358	50.0000	54(A)
6 Acenaphthylene	====	152	7.823	7.823	(0.984)	3904072	50.0000	53(A)
8 Acenaphthene	====	154	7.981	7.981	(1.004)	2292684	50.0000	49
9 Dibenzofuran	====	168	8.128	8.128	(1.022)	3233580	50.0000	50(A)
10 Fluorene	====	166	8.422	8.422	(1.059)	2721626	50.0000	52(A)
12 Phenanthrene	====	178	9.227	9.227	(1.002)	3974751	50.0000	50
13 Anthracene	====	178	9.268	9.268	(1.006)	4044900	50.0000	52(A)
16 Fluoranthene	====	202	10.214	10.214	(1.109)	4360425	50.0000	53(A)
17 Pyrene	====	202	10.402	10.402	(0.899)	4398475	50.0000	52(A)
18 Benzo(a)anthracene	====	228	11.559	11.559	(0.998)	4292530	50.0000	50
20 Chrysene	====	228	11.606	11.606	(1.003)	3781128	50.0000	49
21 Benzo(b)fluoranthene	====	252	12.923	12.923	(0.959)	4185749	50.0000	58(A)
22 Benzo(k)fluoranthene	====	252	12.970	12.970	(0.962)	4172175	50.0000	55(A)
23 Benzo(a)pyrene	====	252	13.393	13.393	(0.993)	3889042	50.0000	54(A)
25 Indeno(1,2,3-cd)pyrene	====	276	15.149	15.149	(1.124)	3980252	50.0000	53(A)
26 Dibenzo(a,h)anthracene	====	278	15.196	15.196	(1.127)	3746128	50.0000	54(A)
27 Benzo(g,h,i)perylene	====	276	15.637	15.637	(1.160)	3714851	50.0000	57(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1DE23009.D

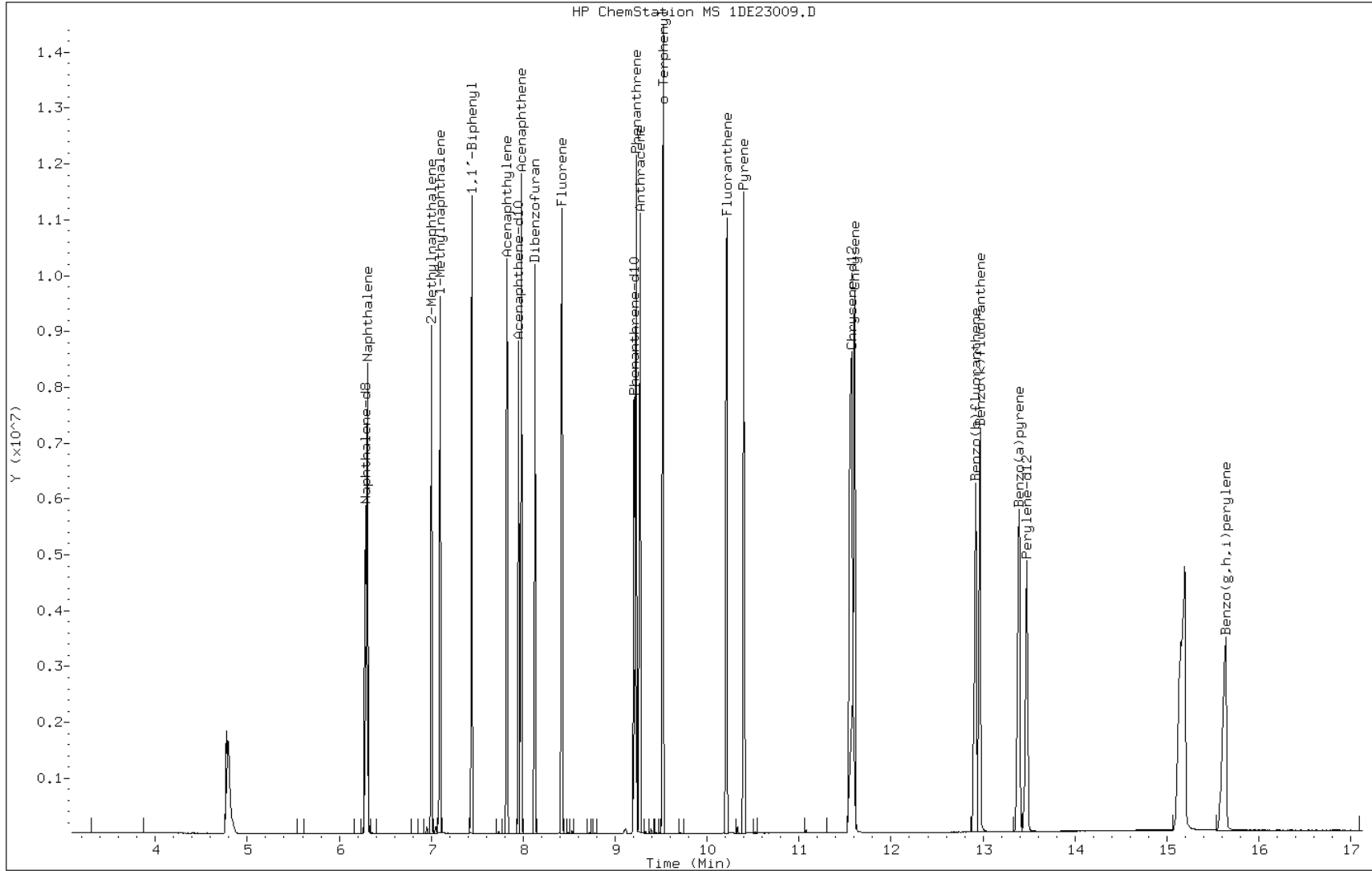
Date: 23-MAY-2013 15:19

Client ID:

Instrument: BSMDS.i

Sample Info: IC7

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab Sample ID: ICV 660-137743/10 Calibration Date: 05/23/2013 14:37
 Instrument ID: BSMA5973 Calib Start Date: 05/23/2013 12:51
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 14:22
 Lab File ID: 1AE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9056	0.9596	0.0000	21200	20000	6.0	35.0
2-Methylnaphthalene	Ave	0.4312	0.5130	0.0000	23800	20000	19.0	35.0
1-Methylnaphthalene	Ave	0.6298	0.6232	0.0000	19800	20000	-1.1	35.0
Acenaphthylene	Ave	1.750	1.935	0.0000	22100	20000	10.5	35.0
Acenaphthene	Ave	0.9354	1.005	0.0000	21500	20000	7.5	35.0
Dibenzofuran	Ave	1.432	1.411		19700	20000	-1.5	
Fluorene	Ave	1.086	1.249	0.0000	23000	20000	15.0	35.0
Phenanthrene	Ave	0.9009	0.9285	0.0000	20600	20000	3.1	35.0
Anthracene	Ave	0.9424	0.9590	0.0000	20400	20000	1.8	35.0
Fluoranthene	Ave	1.125	1.140	0.0000	20300	20000	1.3	35.0
Pyrene	Ave	1.205	1.125	0.0000	18700	20000	-6.7	35.0
Benzo[a]anthracene	None		1.217	0.0000	21700	20000	8.6	35.0
Chrysene	Ave	1.068	1.140	0.0000	21300	20000	6.7	35.0
Benzo[b]fluoranthene	Lin1	0.9925	1.227	0.0000	20600	20000	2.8	35.0
Benzo[k]fluoranthene	Ave	1.331	1.473	0.0000	22100	20000	10.7	35.0
Benzo[a]pyrene	Ave	0.9757	1.138	0.0000	23300	20000	16.6	35.0
Indeno[1,2,3-cd]pyrene	Lin1	0.8579	0.9917	0.0000	20300	20000	1.3	35.0
Dibenz(a,h)anthracene	None		0.9824	0.0000	20500	20000	2.3	35.0
Benzo[g,h,i]perylene	Ave	0.8583	0.9739	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5785	0.5901	0.0000	20400	20000	2.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23010.D
 Lab Smp Id: ICV-1558374
 Inj Date : 23-MAY-2013 14:37
 Operator : SCC
 Smp Info : ICV-1558374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-bFASTPAHi-m.m
 Meth Date : 23-May-2013 15:31 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.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	2.524	2.528	(1.000)	1091029	40.0000			
* 7 Acenaphthene-d10	164	3.549	3.548	(1.000)	597262	40.0000			
* 11 Phenanthrene-d10	188	4.495	4.499	(1.000)	1081344	40.0000			
\$ 15 o-Terphenyl	230	4.789	4.793	(1.065)	319053	20.3999	20.3998		
* 19 Chrysene-d12	240	6.514	6.513	(1.000)	1116055	40.0000			
* 24 Perylene-d12	264	7.599	7.603	(1.000)	937247	40.0000			
2 Naphthalene	128	2.534	2.538	(1.004)	523459	21.1909	21.1908		
3 2-Methylnaphthalene	141	2.940	2.939	(1.165)	279832	23.7922	23.7921		
4 1-Methylnaphthalene	142	2.994	2.992	(1.186)	339949	19.7883	19.7883		
5 1,1'-Biphenyl	154	3.218	3.217	(1.275)	390116	20.3293	20.3292		
6 Acenaphthylene	152	3.459	3.463	(0.974)	577721	22.1070	22.1069		
8 Acenaphthene	154	3.565	3.569	(1.004)	300251	21.4963	21.4962		
9 Dibenzofuran	168	3.672	3.671	(1.035)	421476	19.7098	19.7097		
10 Fluorene	166	3.881	3.879	(1.093)	372900	22.9975	22.9975		
12 Phenanthrene	178	4.511	4.510	(1.004)	502020	20.6136	20.6136		
13 Anthracene	178	4.543	4.547	(1.011)	518497	20.3512	20.3511		
16 Fluoranthene	202	5.371	5.375	(1.195)	616226	20.2658	20.2657(M)		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Pyrene	202	5.537	5.541	(0.850)	627697	18.6647	18.6647
18 Benzo(a)anthracene	228	6.498	6.502	(0.998)	679372	21.7131	21.7130
20 Chrysene	228	6.530	6.534	(1.002)	635939	21.3451	21.3450
21 Benzo(b)fluoranthene	252	7.321	7.320	(0.963)	575078	20.5610	20.5610
22 Benzo(k)fluoranthene	252	7.342	7.346	(0.966)	690280	22.1365	22.1365(M)
23 Benzo(a)pyrene	252	7.545	7.549	(0.993)	533150	23.3194	23.3194
25 Indeno(1,2,3-cd)pyrene	276	8.352	8.356	(1.099)	464711	20.2543	20.2542
26 Dibenzo(a,h)anthracene	278	8.373	8.377	(1.102)	460389	20.4690	20.4690
27 Benzo(g,h,i)perylene	276	8.566	8.570	(1.127)	456408	22.6948	22.6947

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE23010.D

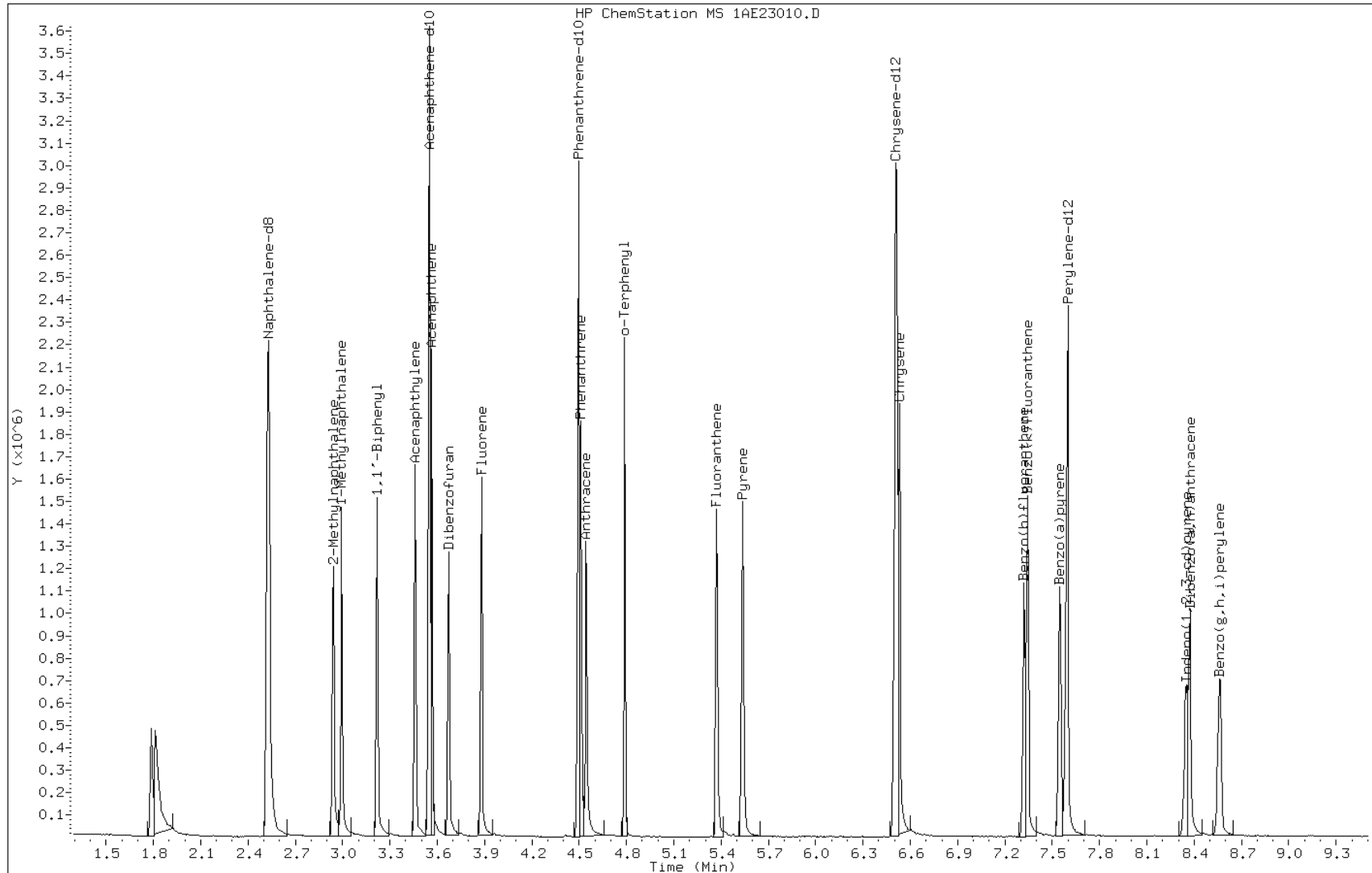
Date: 23-MAY-2013 14:37

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1558374

Operator: SCC

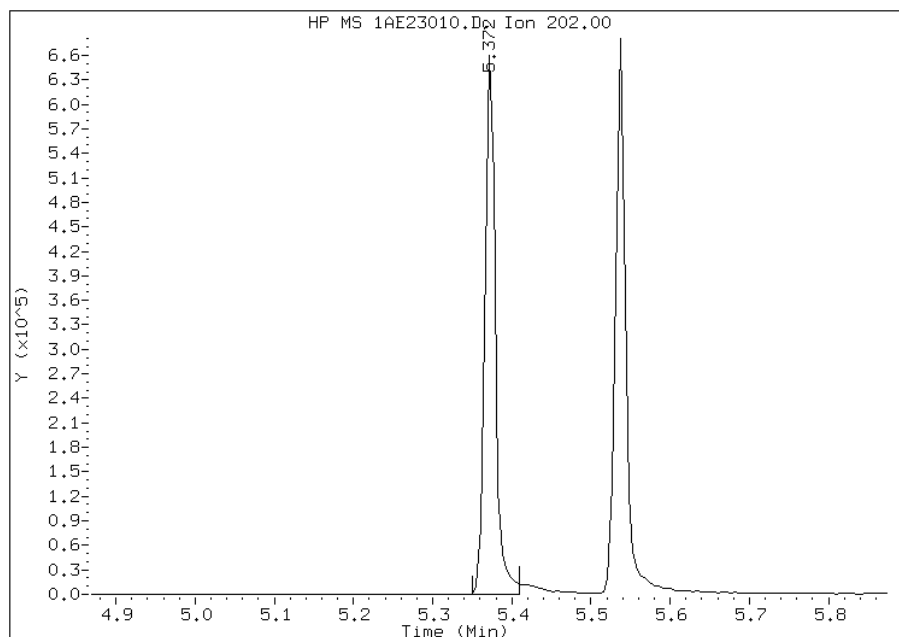


Manual Integration Report

Data File: 1AE23010.D
Inj. Date and Time: 23-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 16 Fluoranthene
CAS #: 206-44-0
Report Date: 05/23/2013

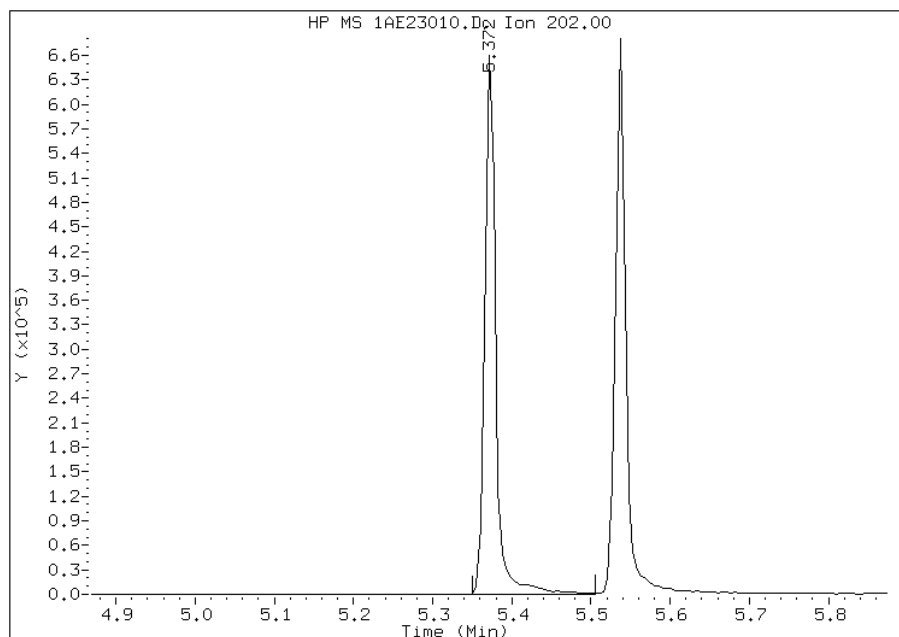
Processing Integration Results

RT: 5.37
Response: 590530
Amount: 19
Conc: 19



Manual Integration Results

RT: 5.37
Response: 616226
Amount: 20
Conc: 20



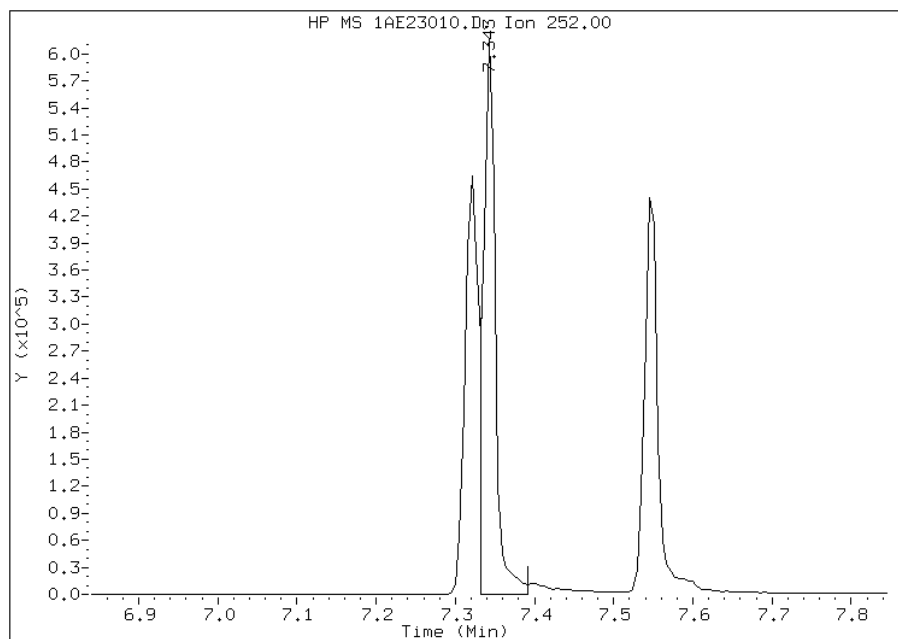
Manually Integrated By: cantins
Modification Date: 23-May-2013 15:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE23010.D
Inj. Date and Time: 23-MAY-2013 14:37
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/23/2013

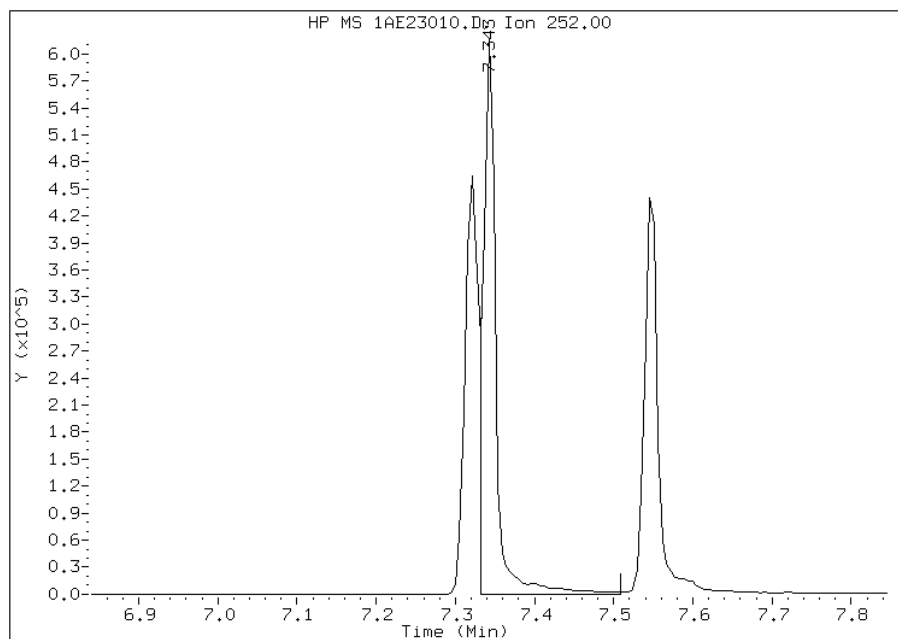
Processing Integration Results

RT: 7.34
Response: 653726
Amount: 21
Conc: 21



Manual Integration Results

RT: 7.34
Response: 690280
Amount: 22
Conc: 22



Manually Integrated By: cantins
Modification Date: 23-May-2013 15:32
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab Sample ID: CCVIS 660-137876/7 Calibration Date: 05/29/2013 15:18
 Instrument ID: BSMA5973 Calib Start Date: 05/23/2013 12:51
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 14:22
 Lab File ID: 1AE29006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9056	0.9038	0.0000	20000	20000	-0.2	20.0
2-Methylnaphthalene	Ave	0.4312	0.4377	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6298	0.5783	0.0000	18400	20000	-8.2	20.0
Acenaphthylene	Ave	1.750	1.708	0.0000	19500	20000	-2.4	20.0
Acenaphthene	Ave	0.9354	0.9730	0.0000	20800	20000	4.0	20.0
Dibenzofuran	Ave	1.432	1.327		18500	20000	-7.4	
Fluorene	Ave	1.086	1.031	0.0000	19000	20000	-5.0	20.0
Phenanthrene	Ave	0.9009	0.8873	0.0000	19700	20000	-1.5	20.0
Anthracene	Ave	0.9424	0.9386	0.0000	19900	20000	-0.4	20.0
Fluoranthene	Ave	1.125	1.032	0.0000	18400	20000	-8.2	20.0
Pyrene	Ave	1.205	1.108	0.0000	18400	20000	-8.1	20.0
Benzo[a]anthracene	None		1.129	0.0000	20100	20000	0.7	20.0
Chrysene	Ave	1.068	0.995	0.0000	18600	20000	-6.8	20.0
Benzo[b]fluoranthene	Lin1	0.9925	0.9915	0.0000	16600	20000	-16.8	20.0
Benzo[k]fluoranthene	Ave	1.331	1.459	0.0000	21900	20000	9.6	20.0
Benzo[a]pyrene	Ave	0.9757	0.9943	0.0000	20400	20000	1.9	20.0
Indeno[1,2,3-cd]pyrene	Lin1	0.8579	0.8398	0.0000	17200	20000	-14.1	20.0
Dibenz(a,h)anthracene	None		0.8543	0.0000	17800	20000	-10.9	20.0
Benzo[g,h,i]perylene	Ave	0.8583	0.8488	0.0000	19800	20000	-1.1	20.0
o-Terphenyl	Ave	0.5785	0.5643	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29006.D
 Lab Smp Id: CCVIS-1559459
 Inj Date : 29-MAY-2013 15:18
 Operator : SCC
 Smp Info : CCVIS-1559459
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29006.D
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.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	2.512	2.512	(1.000)	932710	40.0000	
* 7 Acenaphthene-d10	164	3.533	3.533	(1.000)	490870	40.0000	
* 11 Phenanthrene-d10	188	4.478	4.478	(1.000)	840693	40.0000	
\$ 15 o-Terphenyl	230	4.772	4.772	(1.066)	237212	20.0000	19.5086
* 19 Chrysene-d12	240	6.492	6.492	(1.000)	799224	40.0000	
* 24 Perylene-d12	264	7.571	7.571	(1.000)	651433	40.0000	
2 Naphthalene	128	2.518	2.518	(1.002)	421503	20.0000	19.9597
3 2-Methylnaphthalene	141	2.924	2.924	(1.164)	204138	20.0000	20.3025
4 1-Methylnaphthalene	142	2.977	2.977	(1.185)	269702	20.0000	18.3640
5 1,1'-Biphenyl	154	3.207	3.207	(1.276)	307288	20.0000	18.7310
6 Acenaphthylene	152	3.447	3.447	(0.976)	419086	20.0000	19.5124
8 Acenaphthene	154	3.554	3.554	(1.006)	238797	20.0000	20.8020(M)
9 Dibenzofuran	168	3.655	3.655	(1.035)	325587	20.0000	18.5257
10 Fluorene	166	3.864	3.864	(1.094)	253147	20.0000	18.9959
12 Phenanthrene	178	4.494	4.494	(1.004)	372960	20.0000	19.6979
13 Anthracene	178	4.526	4.526	(1.011)	394528	20.0000	19.9180
16 Fluoranthene	202	5.354	5.354	(1.196)	433907	20.0000	18.3546
17 Pyrene	202	5.515	5.515	(0.849)	442603	20.0000	18.3781
18 Benzo(a)anthracene	228	6.481	6.481	(0.998)	451172	20.0000	20.1325
20 Chrysene	228	6.508	6.508	(1.002)	397703	20.0000	18.6405
21 Benzo(b)fluoranthene	252	7.299	7.299	(0.964)	322956	20.0000	16.6499
22 Benzo(k)fluoranthene	252	7.320	7.320	(0.967)	475292	20.0000	21.9295(M)
23 Benzo(a)pyrene	252	7.523	7.523	(0.994)	323854	20.0000	20.3799
25 Indeno(1,2,3-cd)pyrene	276	8.314	8.314	(1.098)	273529	20.0000	17.1740(M)
26 Dibenzo(a,h)anthracene	278	8.341	8.341	(1.102)	278260	20.0000	17.8170
27 Benzo(g,h,i)perylene	276	8.522	8.522	(1.126)	276464	20.0000	19.7785

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE29006.D

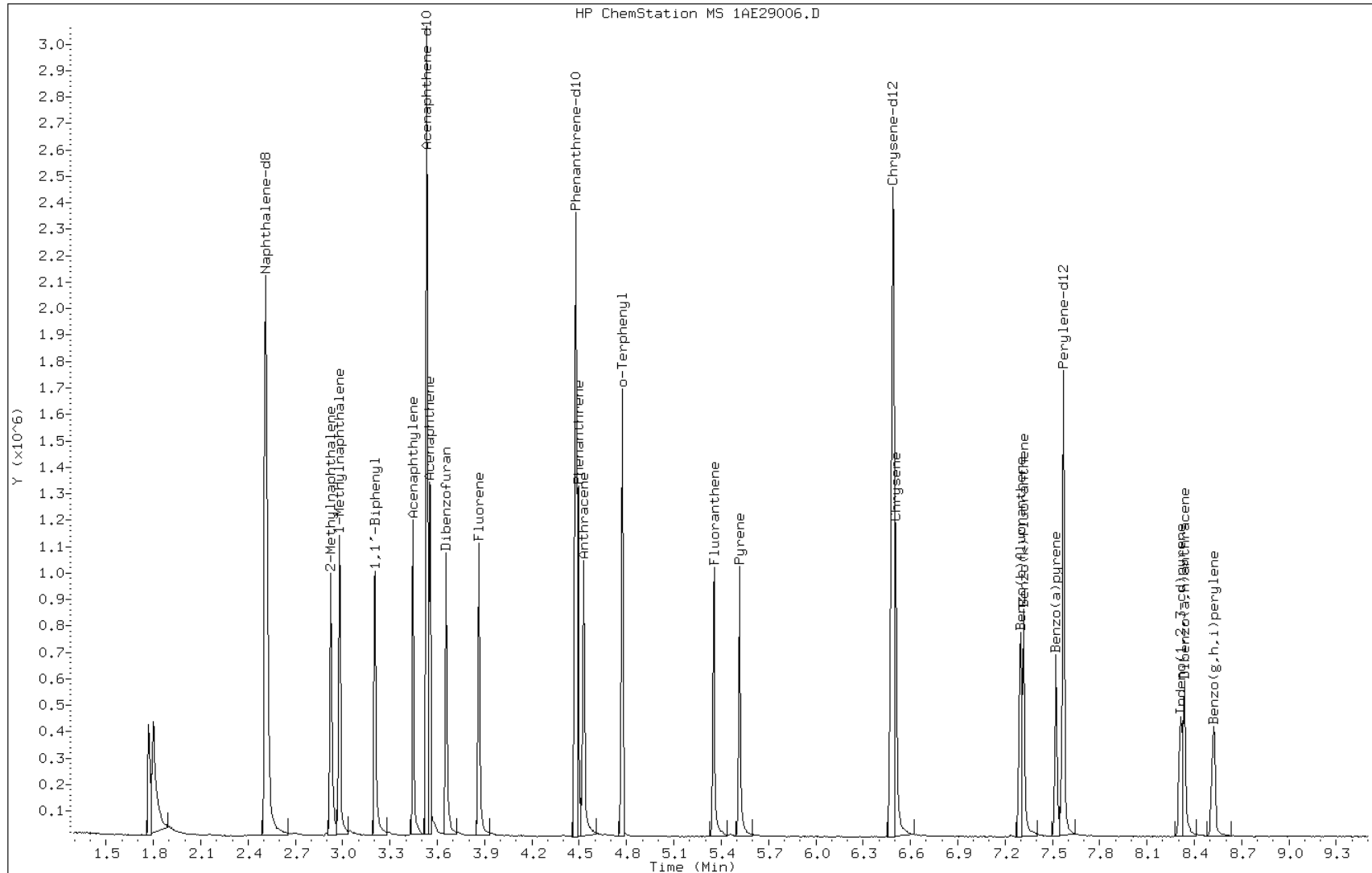
Date: 29-MAY-2013 15:18

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1559459

Operator: SCC

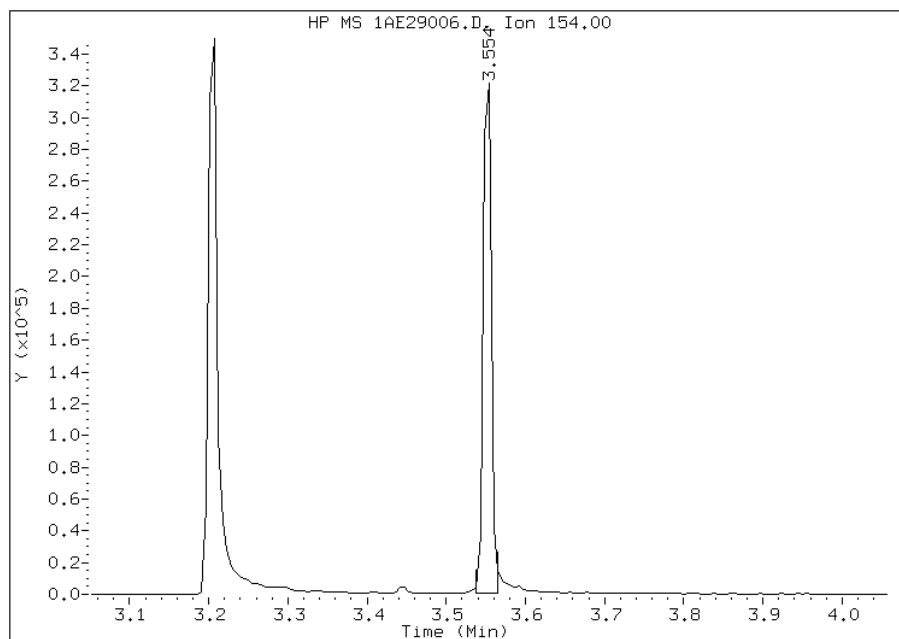


Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 8 Acenaphthene
CAS #: 83-32-9
Report Date: 05/30/2013

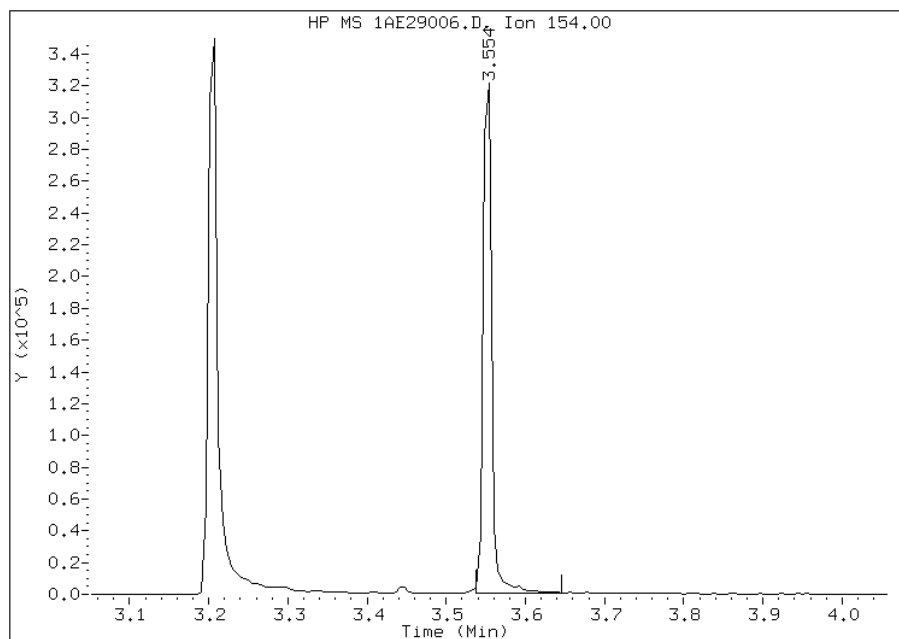
Processing Integration Results

RT: 3.55
Response: 226568
Amount: 20
Conc: 20



Manual Integration Results

RT: 3.55
Response: 238797
Amount: 21
Conc: 21



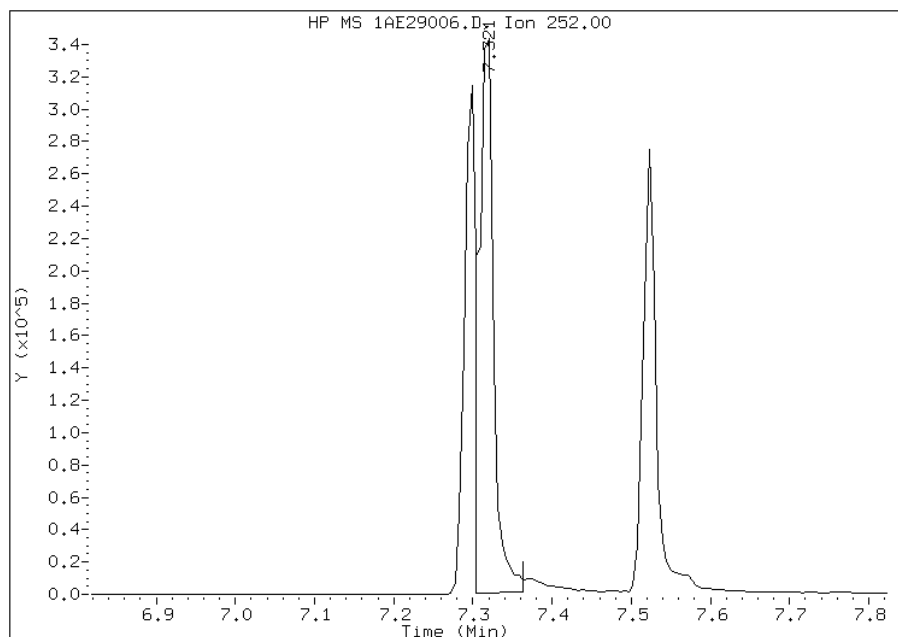
Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

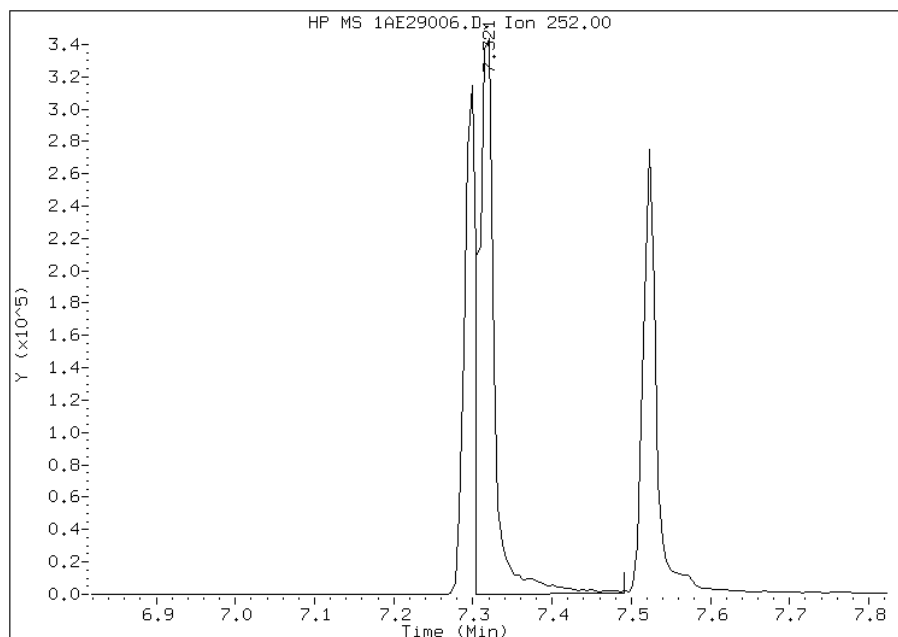
Processing Integration Results

RT: 7.32
Response: 446780
Amount: 21
Conc: 21



Manual Integration Results

RT: 7.32
Response: 475292
Amount: 22
Conc: 22



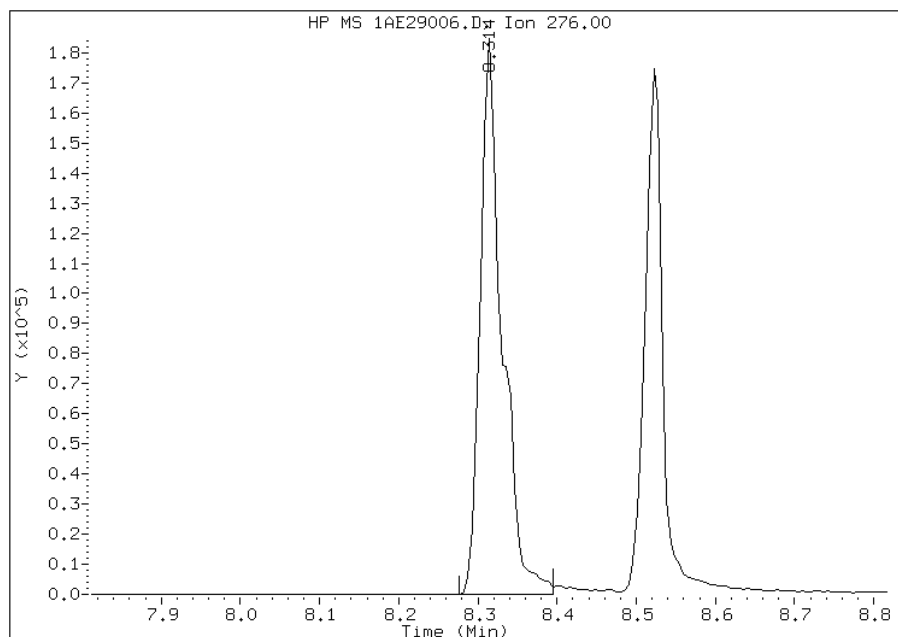
Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29006.D
Inj. Date and Time: 29-MAY-2013 15:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

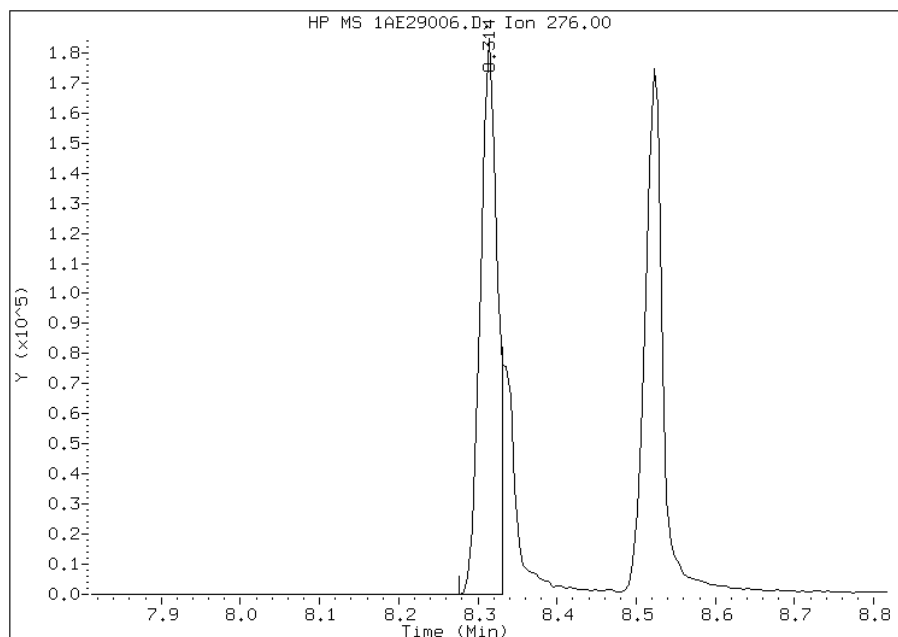
Processing Integration Results

RT: 8.31
Response: 351132
Amount: 22
Conc: 22



Manual Integration Results

RT: 8.31
Response: 273529
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 29-May-2013 15:31
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab Sample ID: ICV 660-137830/10 Calibration Date: 05/23/2013 15:41
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19
 Lab File ID: 1DE23010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.062	0.0000	21500	20000	7.7	35.0
2-Methylnaphthalene	Ave	0.6281	0.7030	0.0000	22400	20000	11.9	35.0
1-Methylnaphthalene	Ave	0.6466	0.6720	0.0000	20800	20000	3.9	35.0
Acenaphthylene	Ave	1.658	1.929	0.0000	23300	20000	16.3	35.0
Acenaphthene	Ave	1.052	1.163	0.0000	22100	20000	10.6	35.0
Dibenzofuran	Ave	1.451	1.520		21000	20000	4.8	
Fluorene	Ave	1.190	1.367	0.0000	23000	20000	14.8	35.0
Phenanthrene	Ave	1.083	1.170	0.0000	21600	20000	8.0	35.0
Anthracene	Ave	1.051	1.180	0.0000	22500	20000	12.3	35.0
Fluoranthene	Ave	1.108	1.253	0.0000	22600	20000	13.0	35.0
Pyrene	Ave	1.171	1.309	0.0000	22400	20000	11.8	35.0
Benzo[a]anthracene	Ave	1.187	1.227	0.0000	20700	20000	3.4	35.0
Chrysene	Ave	1.069	1.150	0.0000	21500	20000	7.6	35.0
Benzo[b]fluoranthene	Ave	1.002	1.129	0.0000	22500	20000	12.7	35.0
Benzo[k]fluoranthene	Ave	1.049	1.202	0.0000	22900	20000	14.5	35.0
Benzo[a]pyrene	Lin2	0.8952	1.064	0.0000	21500	20000	7.7	35.0
Indeno[1,2,3-cd]pyrene	None		1.009	0.0000	19600	20000	-2.2	35.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.023	0.0000	21500	20000	7.4	35.0
Benzo[g,h,i]perylene	Ave	0.9083	1.031	0.0000	22700	20000	13.5	35.0
o-Terphenyl	Ave	0.5860	0.6262	0.0000	21400	20000	6.9	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23010.D
 Lab Smp Id: ICV-1558374
 Inj Date : 23-MAY-2013 15:41
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : ICV-1558374
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\dFASTPAHi.m
 Meth Date : 28-May-2013 11:51 BSMSD.i Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	6.281	6.283 (1.000)	3254661	40.0000				
* 7 Acenaphthene-d10	164	7.949	7.952 (1.000)	1828493	40.0000				
* 11 Phenanthrene-d10	188	9.207	9.209 (1.000)	3056039	40.0000				
\$ 15 o-Terphenyl	230	9.518	9.521 (1.034)	956788	21.3703			21	
* 19 Chrysene-d12	240	11.569	11.577 (1.000)	2992199	40.0000				
* 24 Perylene-d12	264	13.472	13.481 (1.000)	3010942	40.0000				
2 Naphthalene	128	6.304	6.307 (1.004)	1728141	21.5314			22	
3 2-Methylnaphthalene	142	7.003	7.006 (1.115)	1144034	22.3865			22	
4 1-Methylnaphthalene	142	7.092	7.100 (1.129)	1093612	20.7868			21	
5 1,1'-Biphenyl	154	7.438	7.441 (0.936)	1286663	20.8277			21	
6 Acenaphthylene	152	7.820	7.823 (0.984)	1763872	23.2664			23	
8 Acenaphthene	154	7.979	7.981 (1.004)	1063560	22.1147			22	
9 Dibenzofuran	168	8.126	8.128 (1.022)	1389403	20.9522			21	
10 Fluorene	166	8.419	8.422 (1.059)	1249621	22.9645			23	
12 Phenanthrene	178	9.224	9.227 (1.002)	1787673	21.5987			22	
13 Anthracene	178	9.266	9.268 (1.006)	1803785	22.4610			22	
16 Fluoranthene	202	10.206	10.214 (1.108)	1914304	22.6079			23	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
-----	----	----	-----	-----	-----	-----	-----
17 Pyrene	202	10.394	10.402	(0.898)	1958244	22.3533	22
18 Benzo(a)anthracene	228	11.551	11.559	(0.998)	1835809	20.6731	21
20 Chrysene	228	11.598	11.606	(1.003)	1720590	21.5169	22
21 Benzo(b)fluoranthene	252	12.908	12.923	(0.958)	1699838	22.5351	22
22 Benzo(k)fluoranthene	252	12.949	12.970	(0.961)	1809098	22.9026	23
23 Benzo(a)pyrene	252	13.378	13.393	(0.993)	1601318	21.5420	22
25 Indeno(1,2,3-cd)pyrene	276	15.123	15.149	(1.123)	1519348	19.5614	20
26 Dibenzo(a,h)anthracene	278	15.165	15.196	(1.126)	1540208	21.4753	21
27 Benzo(g,h,i)perylene	276	15.605	15.637	(1.158)	1552255	22.7045	23

Data File: 1DE23010.D

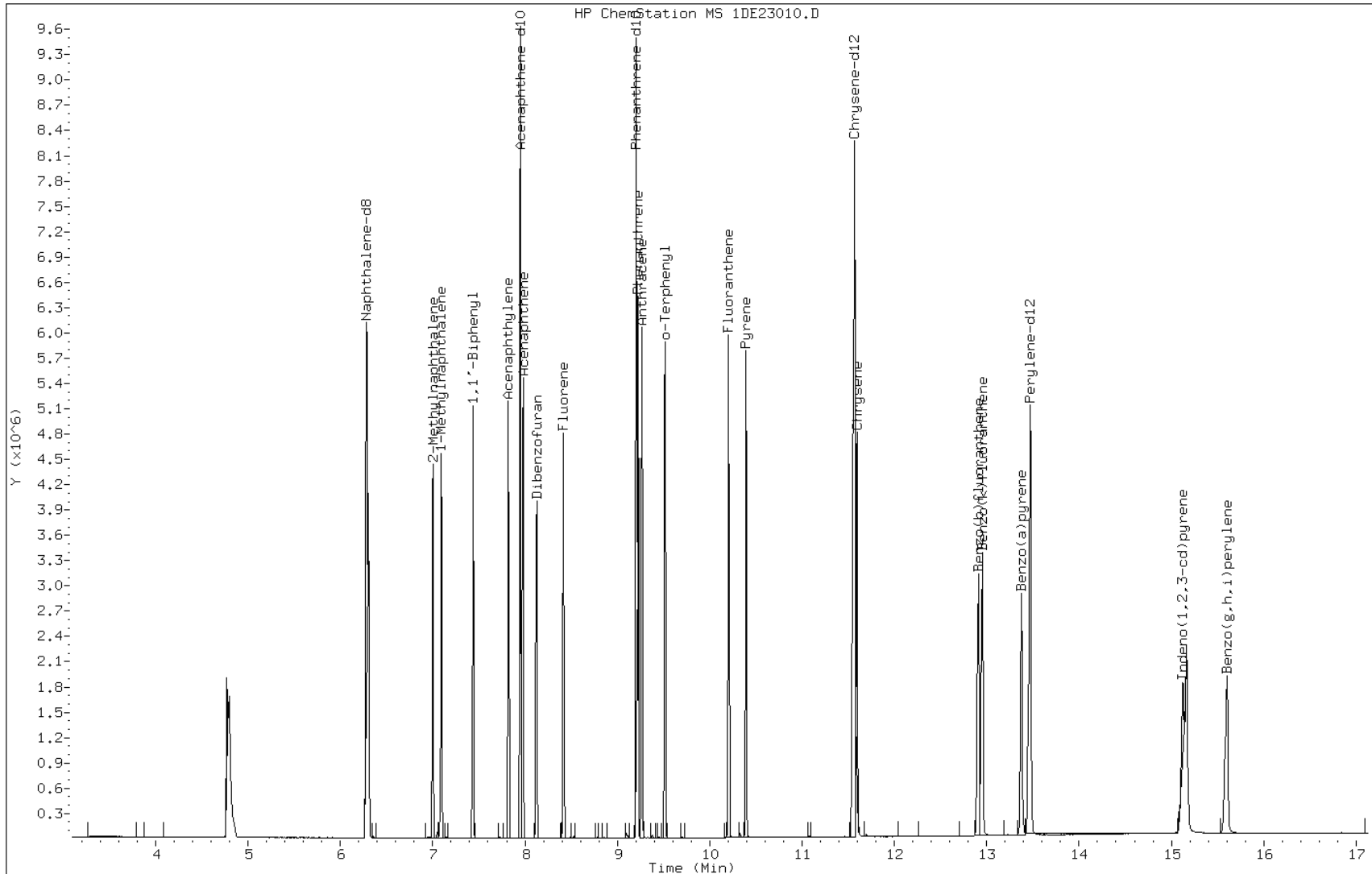
Date: 23-MAY-2013 15:41

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1558374

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Lab Sample ID: CCVIS 660-138106/3 Calibration Date: 06/05/2013 11:54
 Instrument ID: BSMD5973 Calib Start Date: 05/23/2013 13:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 05/23/2013 15:19
 Lab File ID: 1DF05003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9864	1.002	0.0000	20300	20000	1.6	20.0
2-Methylnaphthalene	Ave	0.6281	0.6373	0.0000	20300	20000	1.5	20.0
1-Methylnaphthalene	Ave	0.6466	0.6278	0.0000	19400	20000	-2.9	20.0
Acenaphthylene	Ave	1.658	1.866	0.0000	22500	20000	12.5	20.0
Acenaphthene	Ave	1.052	1.085	0.0000	20600	20000	3.1	20.0
Dibenzofuran	Ave	1.451	1.540		21200	20000	6.1	
Fluorene	Ave	1.190	1.260	0.0000	21200	20000	5.8	20.0
Phenanthrene	Ave	1.083	1.114	0.0000	20600	20000	2.8	20.0
Anthracene	Ave	1.051	1.126	0.0000	21400	20000	7.1	20.0
Fluoranthene	Ave	1.108	1.136	0.0000	20500	20000	2.5	20.0
Pyrene	Ave	1.171	1.273	0.0000	21700	20000	8.7	20.0
Benzo[a]anthracene	Ave	1.187	1.154	0.0000	19400	20000	-2.8	20.0
Chrysene	Ave	1.069	1.061	0.0000	19800	20000	-0.8	20.0
Benzo[b]fluoranthene	Ave	1.002	1.073	0.0000	21400	20000	7.1	20.0
Benzo[k]fluoranthene	Ave	1.049	1.159	0.0000	22100	20000	10.5	20.0
Benzo[a]pyrene	Lin2	0.8952	1.039	0.0000	21000	20000	5.2	20.0
Indeno[1,2,3-cd]pyrene	None		1.012	0.0000	19600	20000	-2.0	20.0
Dibenz(a,h)anthracene	Lin2	0.8892	1.002	0.0000	21000	20000	5.2	20.0
Benzo[g,h,i]perylene	Ave	0.9083	0.9947	0.0000	21900	20000	9.5	20.0
o-Terphenyl	Ave	0.5860	0.5925	0.0000	20200	20000	1.1	20.0

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05003.D
 Lab Smp Id: CCVIS-1559459
 Inj Date : 05-JUN-2013 11:54
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : CCVIS-1559459
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dfASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	6.265	6.265	(1.000)	3131433	40.0000	
* 7 Acenaphthene-d10	164	7.934	7.934	(1.000)	1623515	40.0000	
* 11 Phenanthrene-d10	188	9.191	9.191	(1.000)	2616277	40.0000	
\$ 15 o-Terphenyl	230	9.503	9.503	(1.034)	775049	20.0000	20
* 19 Chrysene-d12	240	11.553	11.553	(1.000)	2384410	40.0000	
* 24 Perylene-d12	264	13.457	13.457	(1.000)	2379163	40.0000	
2 Naphthalene	128	6.289	6.289	(1.004)	1569464	20.0000	20
3 2-Methylnaphthalene	142	6.988	6.988	(1.115)	997821	20.0000	20
4 1-Methylnaphthalene	142	7.076	7.076	(1.129)	982874	20.0000	19
5 1,1'-Biphenyl	154	7.423	7.423	(0.936)	1196549	20.0000	22
6 Acenaphthylene	152	7.811	7.811	(0.984)	1514934	20.0000	22
8 Acenaphthene	154	7.963	7.963	(1.004)	880676	20.0000	21
9 Dibenzofuran	168	8.110	8.110	(1.022)	1249709	20.0000	21
10 Fluorene	166	8.404	8.404	(1.059)	1022637	20.0000	21
12 Phenanthrene	178	9.215	9.215	(1.003)	1457241	20.0000	20
13 Anthracene	178	9.256	9.256	(1.007)	1473173	20.0000	21
16 Fluoranthene	202	10.196	10.196	(1.109)	1486165	20.0000	20
17 Pyrene	202	10.384	10.384	(0.899)	1517275	20.0000	22
18 Benzo(a)anthracene	228	11.542	11.542	(0.999)	1375263	20.0000	19
20 Chrysene	228	11.583	11.583	(1.003)	1264349	20.0000	20
21 Benzo(b)fluoranthene	252	12.893	12.893	(0.958)	1276481	20.0000	21
22 Benzo(k)fluoranthene	252	12.934	12.934	(0.961)	1378884	20.0000	22
23 Benzo(a)pyrene	252	13.363	13.363	(0.993)	1235874	20.0000	21
25 Indeno(1,2,3-cd)pyrene	276	15.102	15.102	(1.122)	1203397	20.0000	20(H)
26 Dibenzo(a,h)anthracene	278	15.137	15.137	(1.125)	1192509	20.0000	21
27 Benzo(g,h,i)perylene	276	15.572	15.572	(1.157)	1183228	20.0000	22

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DF05003.D

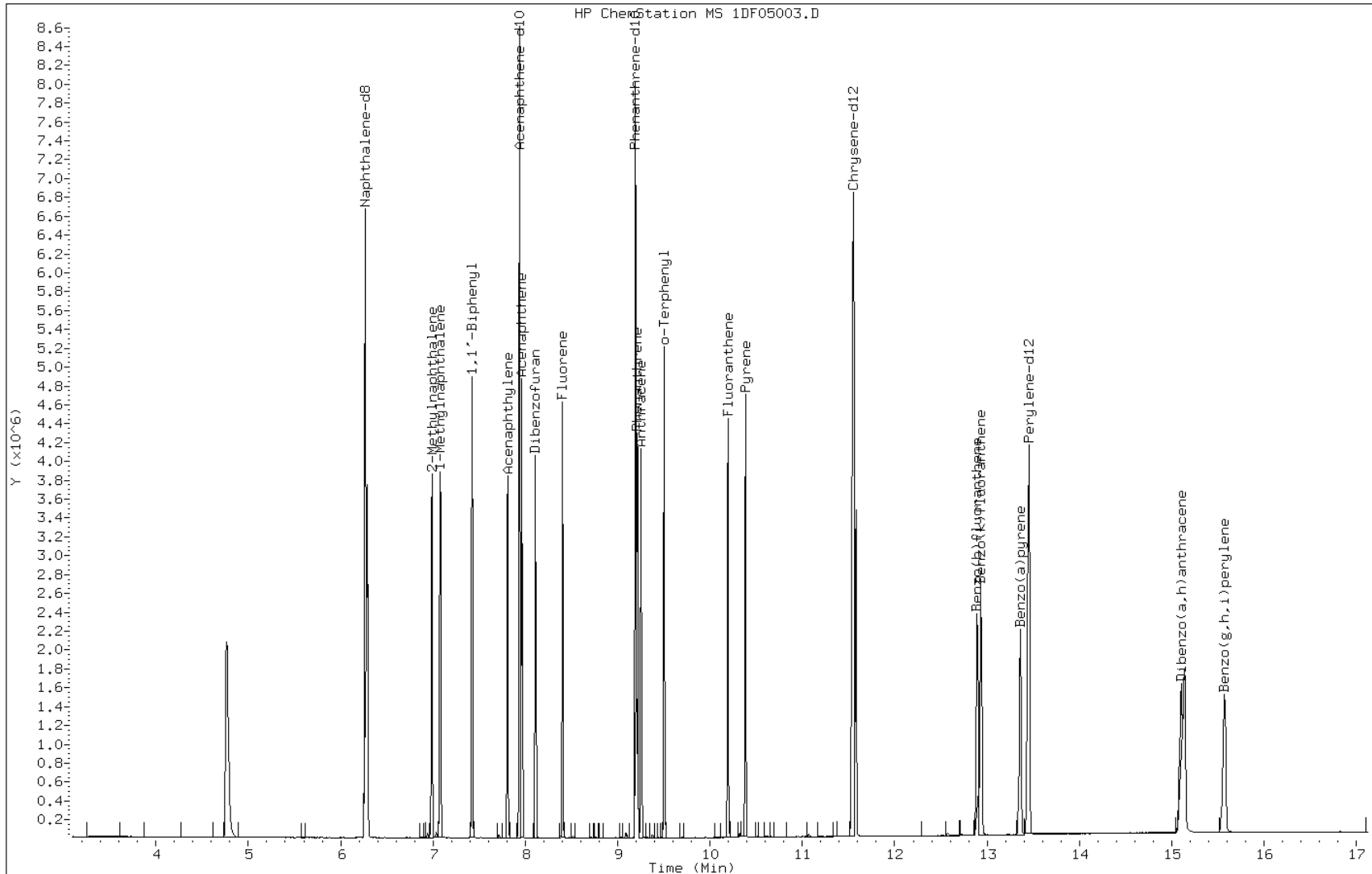
Date: 05-JUN-2013 11:54

Client ID:

Instrument: BSMSD.i

Sample Info: CCVIS-1559459

Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 23-MAY-2013 11:41
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1525851
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\a-dftpp198.m
 Meth Date : 04-Apr-2013 10:35 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				
4.864	4.963	-0.099	198	93344			50.00-	0.00	100.00
4.864	4.963	-0.099	51	46632			10.00-	80.00	49.96
4.864	4.963	-0.099	68	630			0.00-	2.00	1.96
4.864	4.963	-0.099	69	32200			0.00-	0.00	34.50
4.864	4.963	-0.099	70	0	0.0	0.0	0.00-	2.00	0.00
4.864	4.963	-0.099	127	42592			10.00-	80.00	45.63
4.864	4.963	-0.099	197	0	0.0	0.0	0.00-	2.00	0.00
4.864	4.963	-0.099	442	58304			50.00-	0.00	62.46
4.864	4.963	-0.099	199	6869			5.00-	9.00	7.36
4.864	4.963	-0.099	275	21176			10.00-	60.00	22.69
4.864	4.963	-0.099	365	2234			1.00-	0.00	2.39
4.864	4.963	-0.099	441	8326			0.01-	99.99	71.70
4.864	4.963	-0.099	443	11613			15.00-	24.00	19.92

Data File: 1AE23002.D

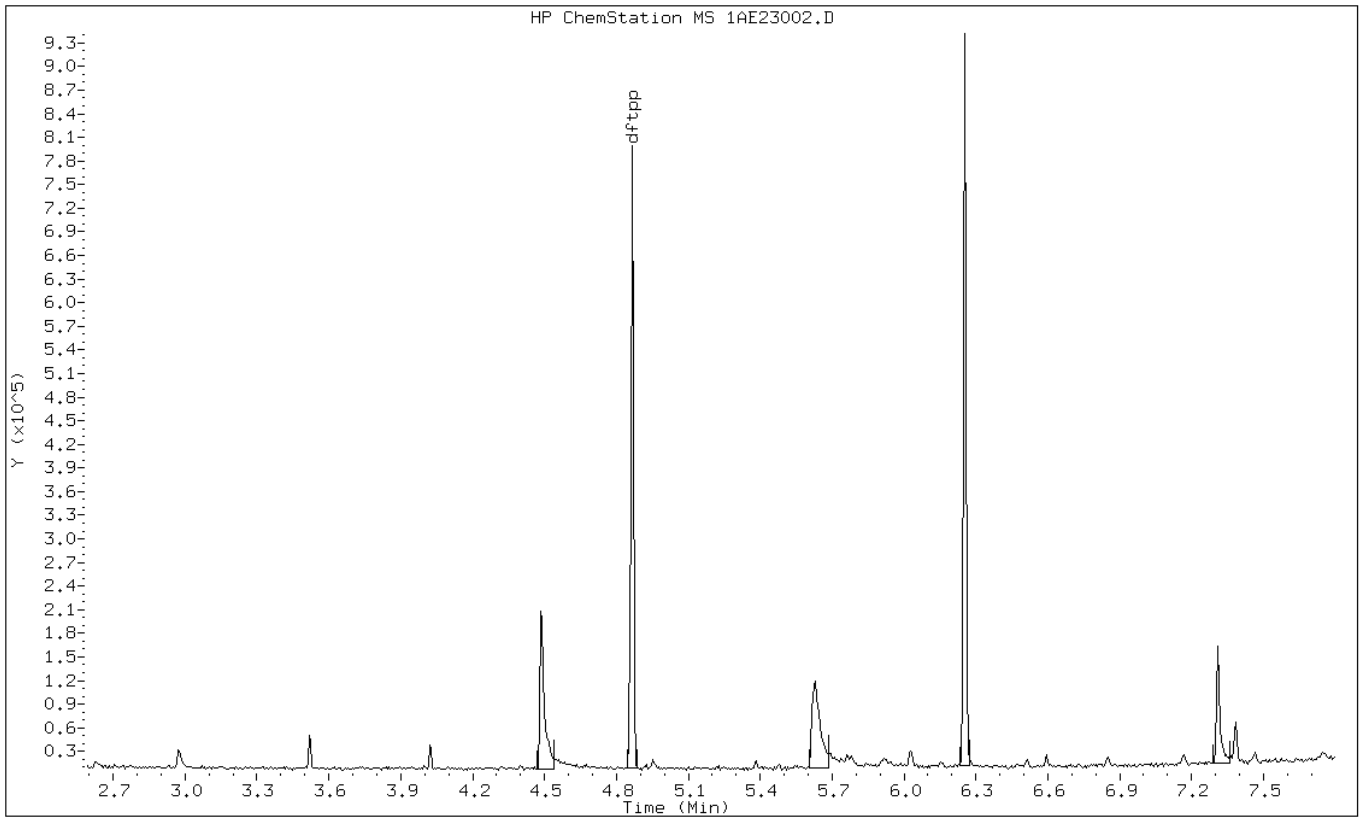
Date: 23-MAY-2013 11:41

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE23002.D

Date: 23-MAY-2013 11:41

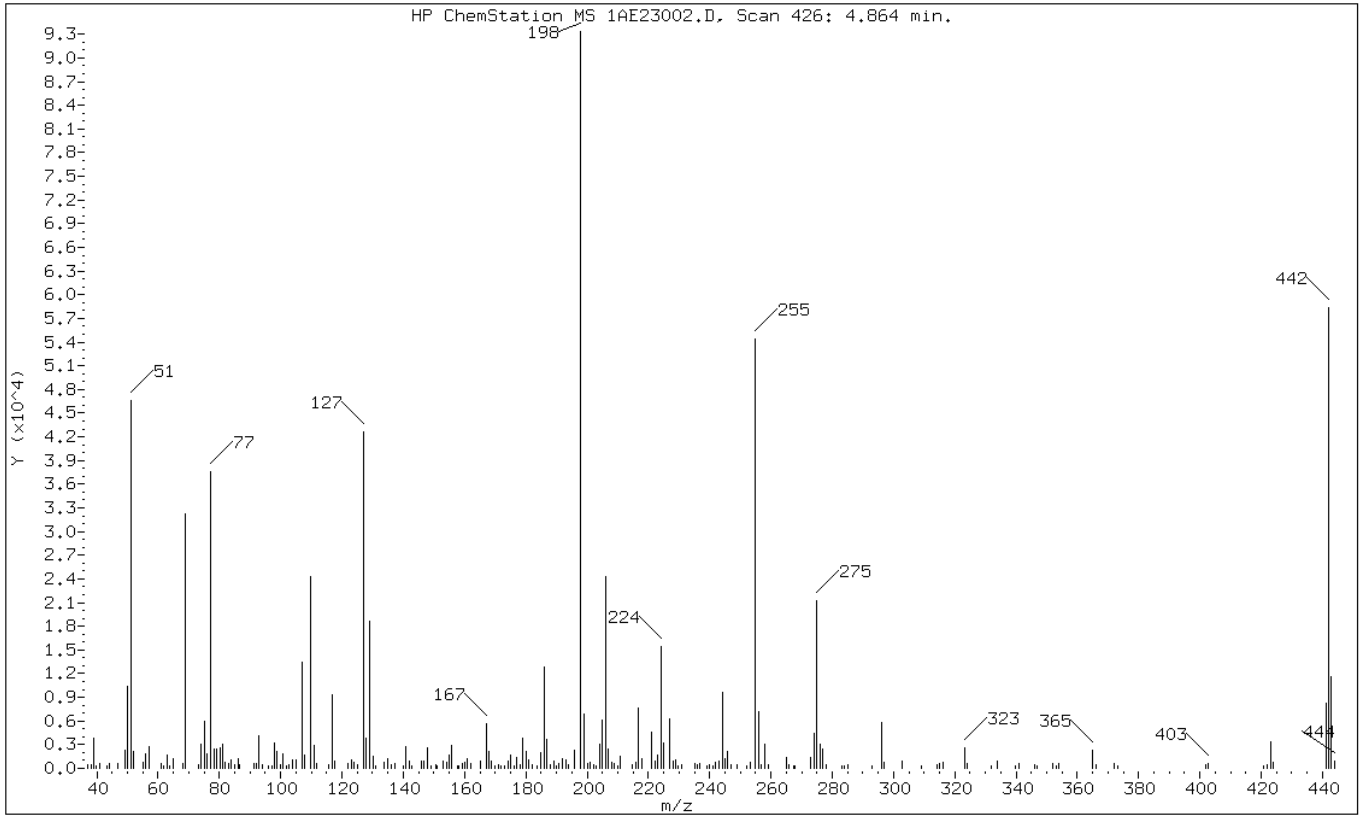
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

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	49.96
68	Less than 2.00% of mass 69	0.67 (1.96)
69	Mass 69 relative abundance	34.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	45.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	62.46
199	5.00 - 9.00% of mass 198	7.36
275	10.00 - 60.00% of mass 198	22.69
365	Greater than 1.00% of mass 198	2.39
441	Present, but less than mass 443	8.92
443	15.00 - 24.00% of mass 442	12.44 (19.92)

Data File: 1AE23002.D

Date: 23-MAY-2013 11:41

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A052313.b\1AE23002.D

Spectrum: HP ChemStation MS 1AE23002.D, Scan 426: 4.864 min.

Location of Maximum: 197.90

Number of points: 215

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	491	110.90	2925	182.20	451	252.00	342
38.00	466	111.90	537	183.80	270	253.10	688
39.00	3781	115.80	524	185.00	1962	255.00	54408
39.90	252	117.00	9284	186.00	12834	256.00	7107
41.10	680	117.80	854	187.00	3653	257.00	393
43.10	314	121.90	658	187.90	444	258.00	3032
43.90	618	123.10	1013	189.00	980	259.00	478
46.90	591	124.10	791	189.90	265	264.90	1438
49.00	2329	124.90	482	190.90	630	266.00	400
50.00	10379	127.00	42592	191.90	1221	267.40	266
51.00	46632	128.00	3820	193.10	1127	268.00	332
52.00	2132	129.00	18624	194.00	396	273.00	1323
55.00	735	130.10	1576	196.00	2289	274.00	4469
56.00	1835	130.90	281	197.90	93344	275.00	21176
57.00	2685	133.80	773	198.90	6869	276.00	3018
61.10	600	135.00	1174	200.00	653	276.90	2483
61.90	281	136.00	529	201.10	782	278.00	440
63.00	1673	137.20	575	202.00	439	283.00	317
63.90	284	140.20	313	203.10	345	284.10	347
65.10	1256	141.00	2773	204.10	3069	285.10	532
67.90	630	141.90	903	205.00	6041	293.10	274
69.00	32200	142.70	361	206.00	24272	296.00	5877
73.00	480	146.10	918	206.90	2475	297.10	701
74.00	3055	146.80	870	207.90	716	303.00	849
75.00	5898	148.00	2662	209.00	644	309.20	323
76.10	1797	149.00	269	210.20	302	314.10	420
77.00	37512	150.70	401	211.00	1569	315.10	564
78.10	2395	151.20	322	214.90	419	316.20	724
78.90	2454	152.90	933	216.10	744	323.10	2632
80.10	2522	154.00	697	216.90	7660	324.00	550
81.00	2994	154.90	1624	218.00	1149	331.90	264
81.90	754	155.90	2839	221.00	4642	334.00	873
83.00	652	157.80	322	222.10	900	339.90	317
83.90	1103	158.10	348	222.90	1696	341.00	575
85.00	415	159.10	600	224.00	15373	346.00	417
86.00	1289	160.10	803	225.00	3272	347.00	251
86.70	394	161.00	1280	227.00	6226	352.10	563
91.10	563	161.90	546	228.00	923	353.00	329
92.00	559	165.00	939	228.90	1085	354.10	586
93.00	4113	167.00	5642	229.70	308	365.00	2234

93.90	430	168.00	2100	231.00	510	366.00	442
96.00	319	168.80	886	235.00	606	372.10	576
97.00	321	170.00	264	235.80	434	373.30	336
98.00	3182	171.10	534	236.90	583	402.10	467
98.90	2111	171.70	334	239.20	362	402.80	578

100.10	411	173.00	362	240.00	461	420.80	327
100.90	1779	174.10	860	241.00	298	422.00	475
102.00	352	175.00	1715	241.80	839	423.00	3298
102.80	519	176.20	341	243.00	928	424.10	698
104.00	1001	177.10	1372	244.10	9602	441.10	8326

105.00	1090	178.00	441	244.90	1146	442.00	58304
107.00	13452	178.90	3816	245.90	2154	443.00	11613
107.90	1631	180.00	2081	247.10	507	444.00	958
109.90	24240	181.00	1071	249.10	385		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29005.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 29-MAY-2013 15:05
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1525851
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-dftpp198.m
 Meth Date : 04-Apr-2013 10:35 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				
4.848	4.963	-0.115	198	61032			50.00-	0.00	100.00
4.848	4.963	-0.115	51	24072			10.00-	80.00	39.44
4.848	4.963	-0.115	68	385			0.00-	2.00	1.78
4.848	4.963	-0.115	69	21608			0.00-	0.00	35.40
4.848	4.963	-0.115	70	0	0.0	0.0	0.00-	2.00	0.00
4.848	4.963	-0.115	127	26272			10.00-	80.00	43.05
4.848	4.963	-0.115	197	0	0.0	0.0	0.00-	2.00	0.00
4.848	4.963	-0.115	442	57344			50.00-	0.00	93.96
4.848	4.963	-0.115	199	4562			5.00-	9.00	7.47
4.848	4.963	-0.115	275	16952			10.00-	60.00	27.78
4.848	4.963	-0.115	365	2243			1.00-	0.00	3.68
4.848	4.963	-0.115	441	6869			0.01-	99.99	59.80
4.848	4.963	-0.115	443	11486			15.00-	24.00	20.03

Data File: 1AE29005.D

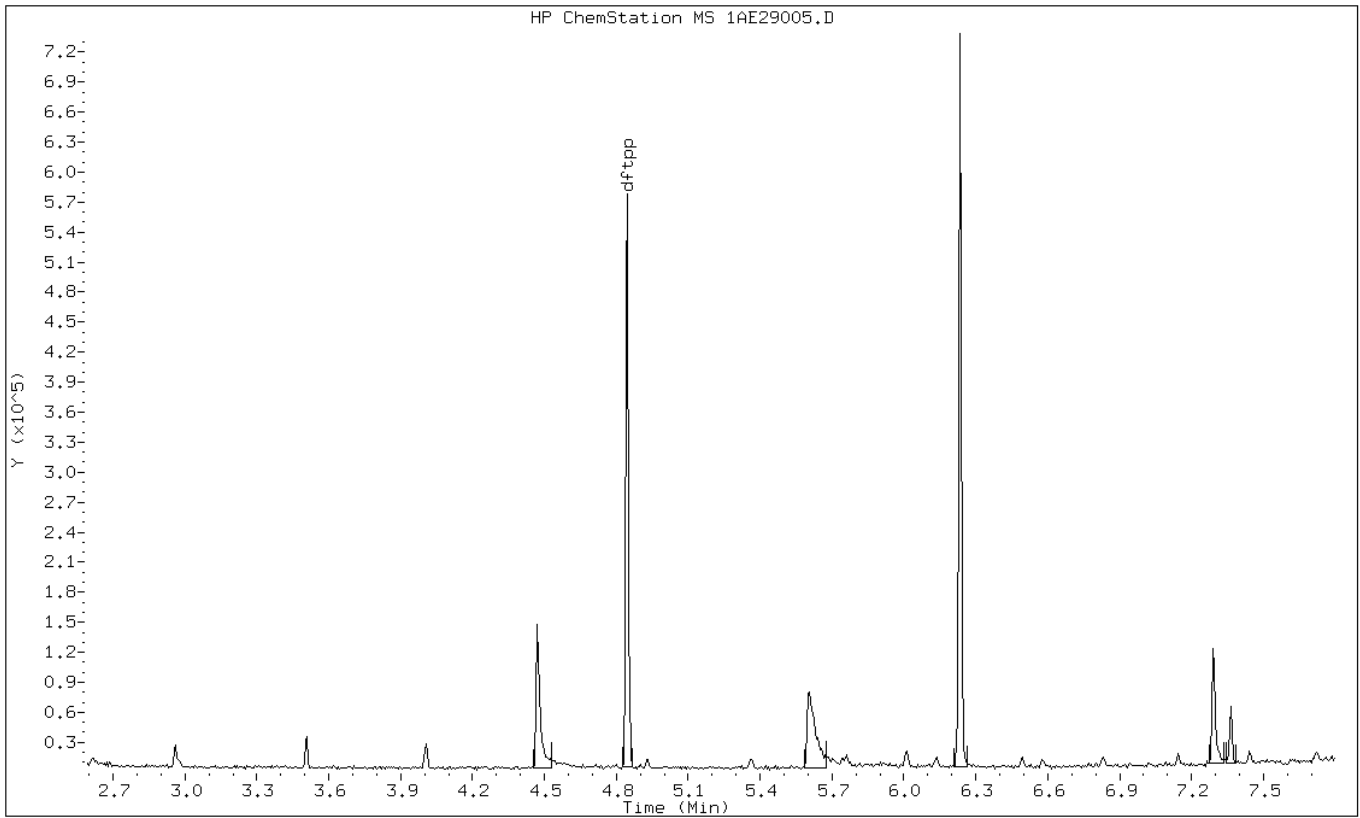
Date: 29-MAY-2013 15:05

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE29005.D

Date: 29-MAY-2013 15:05

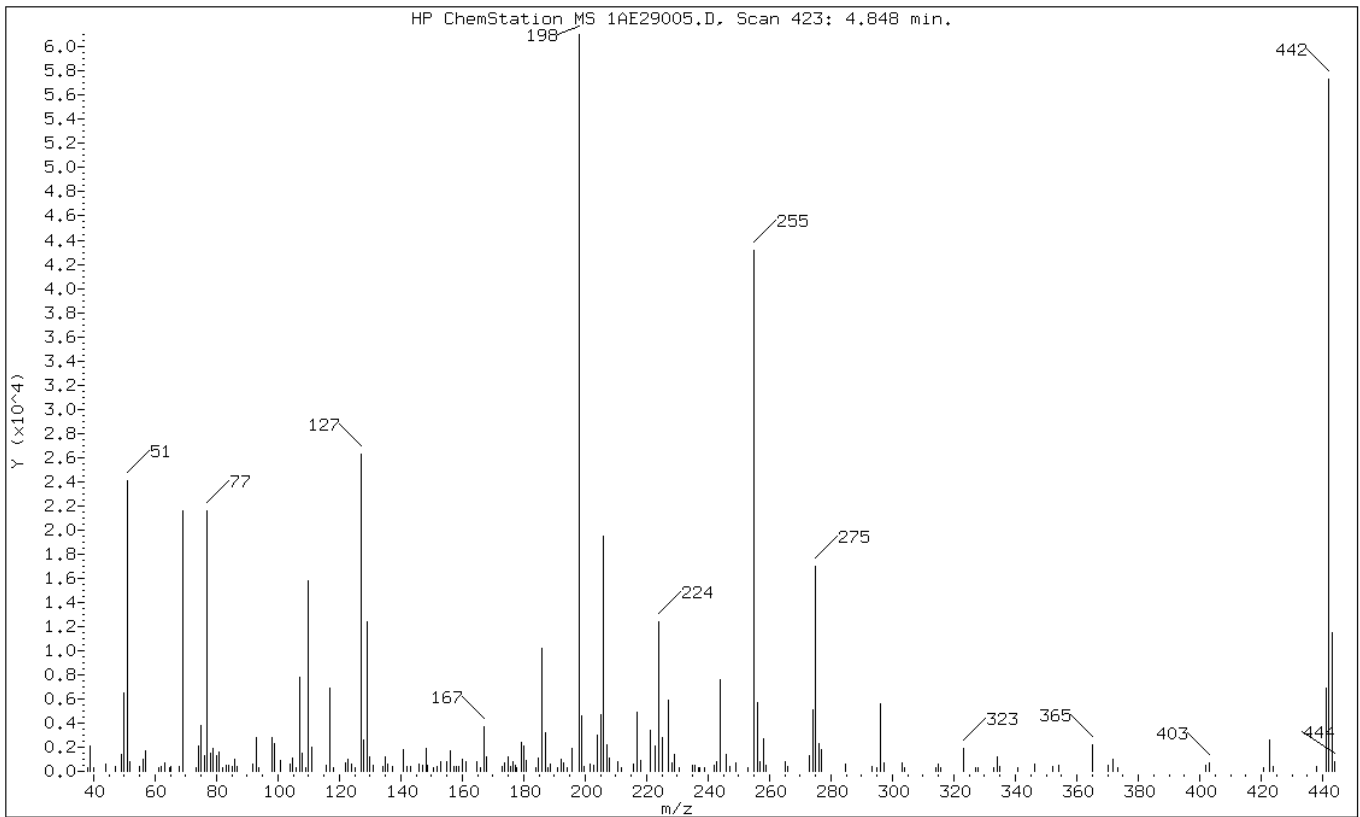
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	39.44
68	Less than 2.00% of mass 69	0.63 (1.78)
69	Mass 69 relative abundance	35.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	43.05
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	93.96
199	5.00 - 9.00% of mass 198	7.47
275	10.00 - 60.00% of mass 198	27.78
365	Greater than 1.00% of mass 198	3.68
441	Present, but less than mass 443	11.25
443	15.00 - 24.00% of mass 442	18.82 (20.03)

Data File: 1AE29005.D

Date: 29-MAY-2013 15:05

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29005.D

Spectrum: HP ChemStation MS 1AE29005.D, Scan 423: 4.848 min.

Location of Maximum: 198.00

Number of points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	302	110.90	2046	184.10	307	256.90	750
39.00	2111	115.90	495	184.90	1068	258.10	2722
40.00	305	116.90	6910	186.00	10143	259.00	500
44.00	608	118.00	347	187.00	3205	265.00	808
47.00	376	121.90	674	187.90	312	265.90	440
48.90	1443	122.90	953	188.80	627	272.90	1282
50.00	6502	124.00	570	191.10	300	274.00	5055
51.00	24072	125.00	343	192.00	1025	275.00	16952
52.00	799	127.00	26272	193.00	736	276.00	2336
54.90	359	128.00	2609	194.10	267	277.00	1792
56.00	974	129.00	12370	195.80	1918	284.90	579
57.00	1663	130.00	1213	198.00	61032	293.20	370
61.10	274	131.00	528	198.90	4562	295.00	267
62.00	402	134.10	390	199.80	386	296.00	5570
63.00	748	135.00	1175	201.70	565	297.10	662
64.70	341	135.90	607	202.80	547	303.20	739
65.10	376	137.10	382	204.00	3035	304.00	289
68.00	385	141.00	1780	205.00	4737	314.10	294
69.00	21608	141.90	388	206.00	19496	314.90	607
73.20	261	143.00	379	207.10	2219	315.70	314
74.10	2064	145.80	600	208.00	1057	323.00	1924
75.00	3800	147.00	502	210.80	848	327.10	302
76.00	1283	148.10	1889	211.70	296	328.00	266
76.20	1298	148.80	489	215.80	577	332.80	286
77.00	21600	150.80	277	216.90	4944	334.10	1227
77.90	1531	151.80	408	217.90	939	335.00	403
78.90	1887	153.00	803	221.10	3357	340.90	279
79.90	1268	155.10	812	222.80	2049	346.20	560
81.00	1644	156.00	1668	224.00	12359	352.00	423
82.00	336	157.20	404	225.00	2837	354.00	521
83.00	510	158.00	446	227.00	5921	354.20	528
84.00	481	158.80	374	228.10	665	365.00	2243
85.00	437	160.00	1003	229.00	1373	370.00	549
86.00	1044	161.20	819	230.60	302	371.90	1005
86.80	390	164.90	808	234.80	458	373.30	252
92.00	624	166.10	306	235.80	514	402.00	502
92.90	2828	167.00	3649	236.70	301	403.00	748
93.90	338	168.00	1237	237.10	312	420.90	284
97.90	2825	173.10	356	239.00	260	422.90	2617
98.90	2289	173.90	689	241.90	541	424.10	411

100.90	906	175.00	1180	242.90	833	437.90	428
104.00	612	175.70	357	244.10	7594	441.00	6869
104.80	1051	176.40	835	246.00	1423	442.00	57344
106.00	349	177.10	496	247.00	380	443.00	11486
107.00	7798	177.80	274	248.90	663	443.90	844
+-----+							
108.00	1485	179.10	2417	253.00	253		
108.90	254	179.90	2103	255.00	43184		
110.00	15761	180.90	865	255.90	5656		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\1DE23002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 23-MAY-2013 11:20
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D052313.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
8.587	8.532	0.055	198	121784			50.00-	0.00	100.00
8.587	8.532	0.055	51	67440			10.00-	80.00	55.38
8.587	8.532	0.055	68	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	69	65104			0.00-	0.00	53.46
8.587	8.532	0.055	70	565			0.00-	2.00	0.87
8.587	8.532	0.055	127	68776			10.00-	80.00	56.47
8.587	8.532	0.055	197	0	0.0	0.0	0.00-	2.00	0.00
8.587	8.532	0.055	442	65752			50.00-	0.00	53.99
8.587	8.532	0.055	199	8068			5.00-	9.00	6.62
8.587	8.532	0.055	275	31712			10.00-	60.00	26.04
8.587	8.532	0.055	365	4846			1.00-	0.00	3.98
8.587	8.532	0.055	441	9492			0.01-	99.99	78.47
8.587	8.532	0.055	443	12096			15.00-	24.00	18.40

Data File: 1DE23002.D

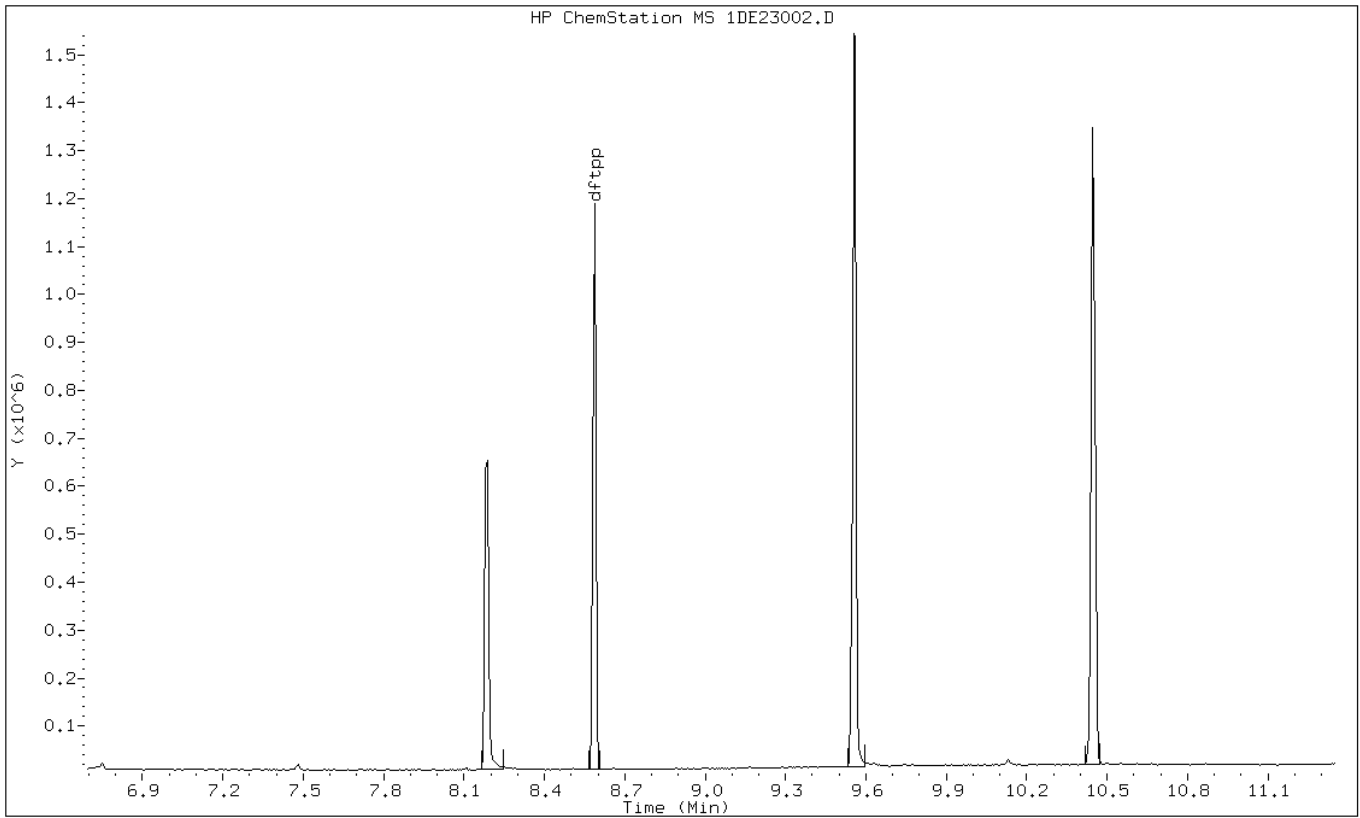
Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

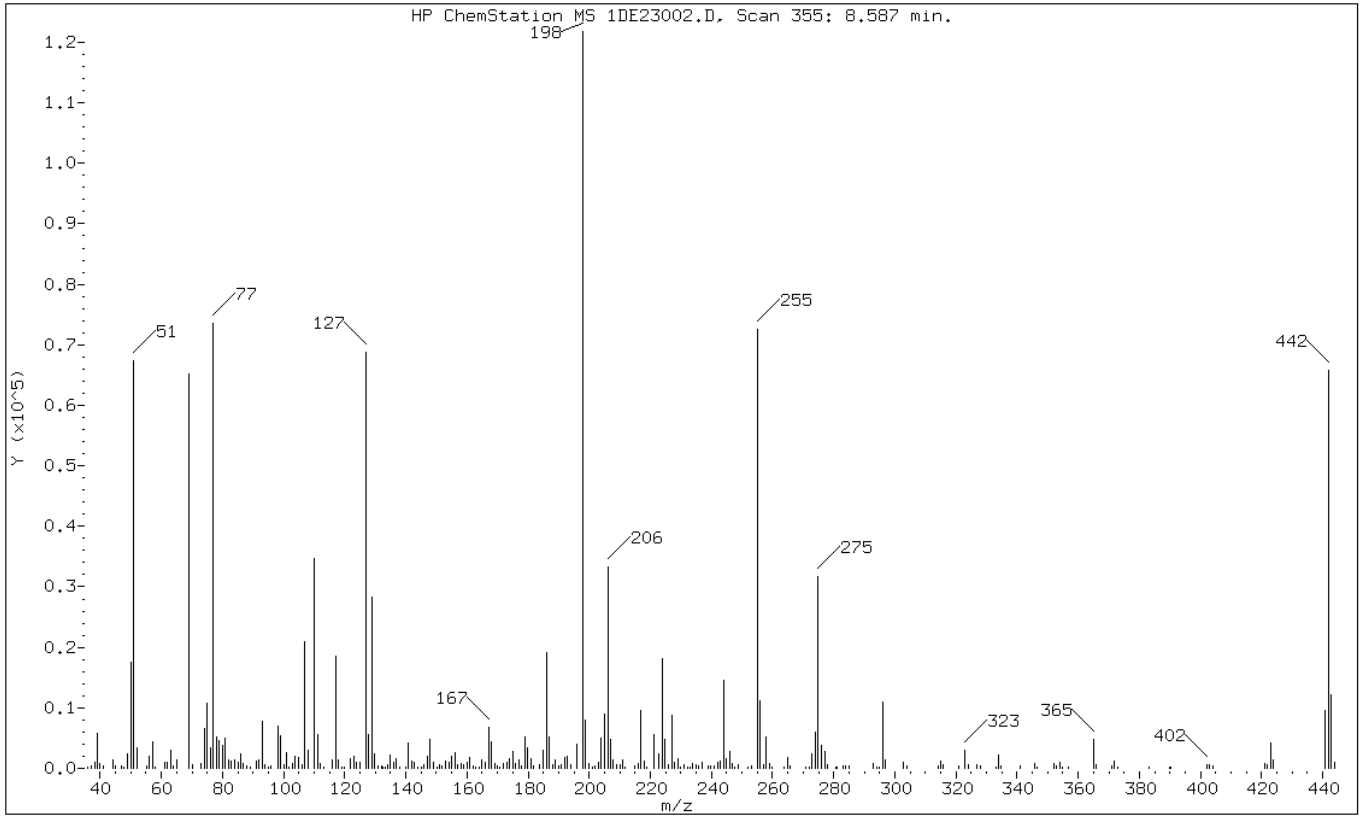
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	55.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.46
70	Less than 2.00% of mass 69	0.46 (0.87)
127	10.00 - 80.00% of mass 198	56.47
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	53.99
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	26.04
365	Greater than 1.00% of mass 198	3.98
441	Present, but less than mass 443	7.79
443	15.00 - 24.00% of mass 442	9.93 (18.40)

Data File: 1DE23002.D

Date: 23-MAY-2013 11:20

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D052313_pahIC.b\1DE23002.D

Spectrum: HP ChemStation MS 1DE23002.D, Scan 355: 8.587 min.

Location of Maximum: 197.90

Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	249	117.90	1357	186.00	19144	263.70	171
37.10	370	118.90	263	186.90	5217	264.90	1873
38.10	973	120.00	223	187.90	612	265.80	383
39.00	5723	121.90	1665	188.90	1329	271.00	186
40.00	747	122.90	2073	189.90	307	271.90	293
41.00	364	124.00	1000	191.00	596	272.90	2302
44.00	1452	125.00	929	191.90	1822	273.90	5948
45.10	334	127.00	68776	192.90	2065	274.90	31712
46.90	480	127.90	5565	194.00	565	275.90	3785
47.80	238	128.90	28208	195.90	3944	277.00	2800
49.00	2358	129.90	2448	197.90	121784	277.90	659
50.00	17600	131.10	380	198.90	8068	280.80	191
51.00	67440	132.00	342	199.90	824	281.10	192
52.00	3328	132.60	152	201.10	276	283.00	400
55.10	409	133.10	215	201.70	467	283.90	307
56.00	2025	133.90	654	203.00	968	284.90	387
57.00	4381	134.90	2109	203.90	5020	293.00	825
58.00	217	136.00	922	205.00	9032	294.00	151
61.00	1013	136.90	1647	206.00	33240	294.90	243
62.00	913	138.00	265	207.00	4794	295.90	11046
63.00	2951	139.90	239	207.90	1427	296.90	1346
64.00	397	140.90	4179	208.80	681	302.90	926
65.00	1343	141.90	1118	210.00	552	304.00	330
69.00	65104	142.90	1031	210.90	1454	314.10	375
70.00	565	144.00	240	211.80	223	314.90	1098
73.00	790	145.10	221	214.90	414	315.90	571
74.00	6651	145.90	520	216.00	838	320.90	352
75.00	10782	147.00	2016	216.90	9622	323.00	2997
76.00	3422	148.00	4753	217.90	1129	323.90	666
77.00	73512	148.90	1096	218.80	154	326.80	600
78.00	5136	150.10	273	221.00	5672	328.00	304
79.00	4645	150.90	581	222.90	2421	333.00	236
80.00	3799	151.70	317	224.00	18232	333.90	2273
81.00	4928	152.90	1222	224.90	4829	334.90	490
82.00	1382	154.00	956	226.00	615	341.00	350
82.90	1163	155.00	1904	226.90	8729	345.80	800
83.90	1444	156.00	2641	227.90	1012	346.70	161
85.00	909	157.00	572	228.90	1680	351.90	800
85.90	2381	158.00	809	229.80	268	352.80	433
86.90	728	159.00	666	230.90	693	354.00	1029

87.90	331	160.00	933	232.10	157	354.90	170
89.00	285	160.90	1756	233.00	179	356.90	162
91.00	1150	162.00	462	233.90	756	365.00	4846
91.90	1474	162.80	203	235.00	558	365.90	560
92.90	7822	164.10	158	235.90	487	371.10	322

93.90	567	164.90	1406	236.90	950	371.90	1258
94.90	179	166.00	940	238.90	325	372.80	192
96.00	396	167.00	6772	239.80	300	373.10	180
98.00	6996	167.90	4389	241.00	416	383.10	221
98.90	5360	169.00	764	242.00	904	390.00	192

100.00	551	170.00	342	242.90	1190	390.30	165
100.90	2607	170.80	216	244.00	14621	402.00	625
101.90	286	171.90	754	244.90	1630	402.80	604
102.90	815	172.90	903	245.90	2736	403.90	416
103.90	1983	174.00	1510	246.90	832	420.90	877

105.00	1804	175.00	2756	247.70	160	422.00	504
106.00	509	175.90	753	248.90	508	422.90	4151
107.00	20912	177.00	1365	252.10	158	423.90	1358
107.90	2991	177.90	464	253.00	393	440.90	9492
109.90	34672	178.90	5168	254.90	72544	441.90	65752

111.00	5529	179.90	3472	255.90	11148	442.90	12096
111.90	765	180.90	1571	257.00	697	443.90	1083
113.00	248	181.90	303	257.90	5230		
116.00	1418	183.90	514	258.90	884		
117.00	18560	185.00	2991	260.00	157		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 05-JUN-2013 11:38
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : DFTPP-1525850
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\d-dftpp198.m
 Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET	RANGE	RATIO	
====	=====	=====	====	=====	=====	=====	=====	=====	
1 dftpp					CAS #: 5074-71-5				
8.570	8.532	0.038	198	159360		50.00-	0.00	100.00	
8.570	8.532	0.038	51	49288		10.00-	80.00	30.93	
8.570	8.532	0.038	68	0	0.0	0.0	0.00-	2.00	0.00
8.570	8.532	0.038	69	54176		0.00-	0.00	34.00	
8.570	8.532	0.038	70	373		0.00-	2.00	0.69	
8.570	8.532	0.038	127	72328		10.00-	80.00	45.39	
8.570	8.532	0.038	197	0	0.0	0.0	0.00-	2.00	0.00
8.570	8.532	0.038	442	142016		50.00-	0.00	89.12	
8.570	8.532	0.038	199	9993		5.00-	9.00	6.27	
8.570	8.532	0.038	275	47888		10.00-	60.00	30.05	
8.570	8.532	0.038	365	7139		1.00-	0.00	4.48	
8.570	8.532	0.038	441	21488		0.01-	99.99	80.47	
8.570	8.532	0.038	443	26704		15.00-	24.00	18.80	

Data File: 1DF05002.D

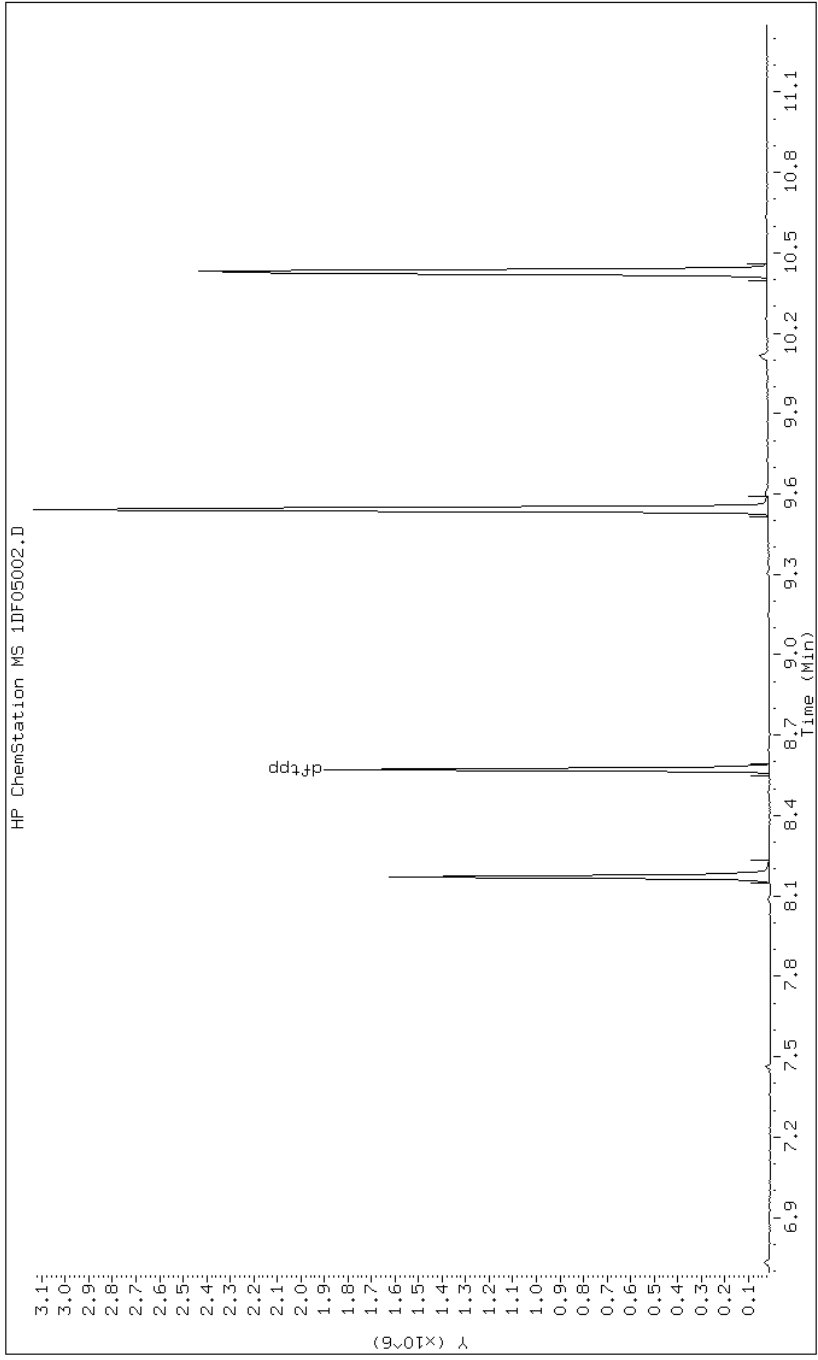
Date: 05-JUN-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC



Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

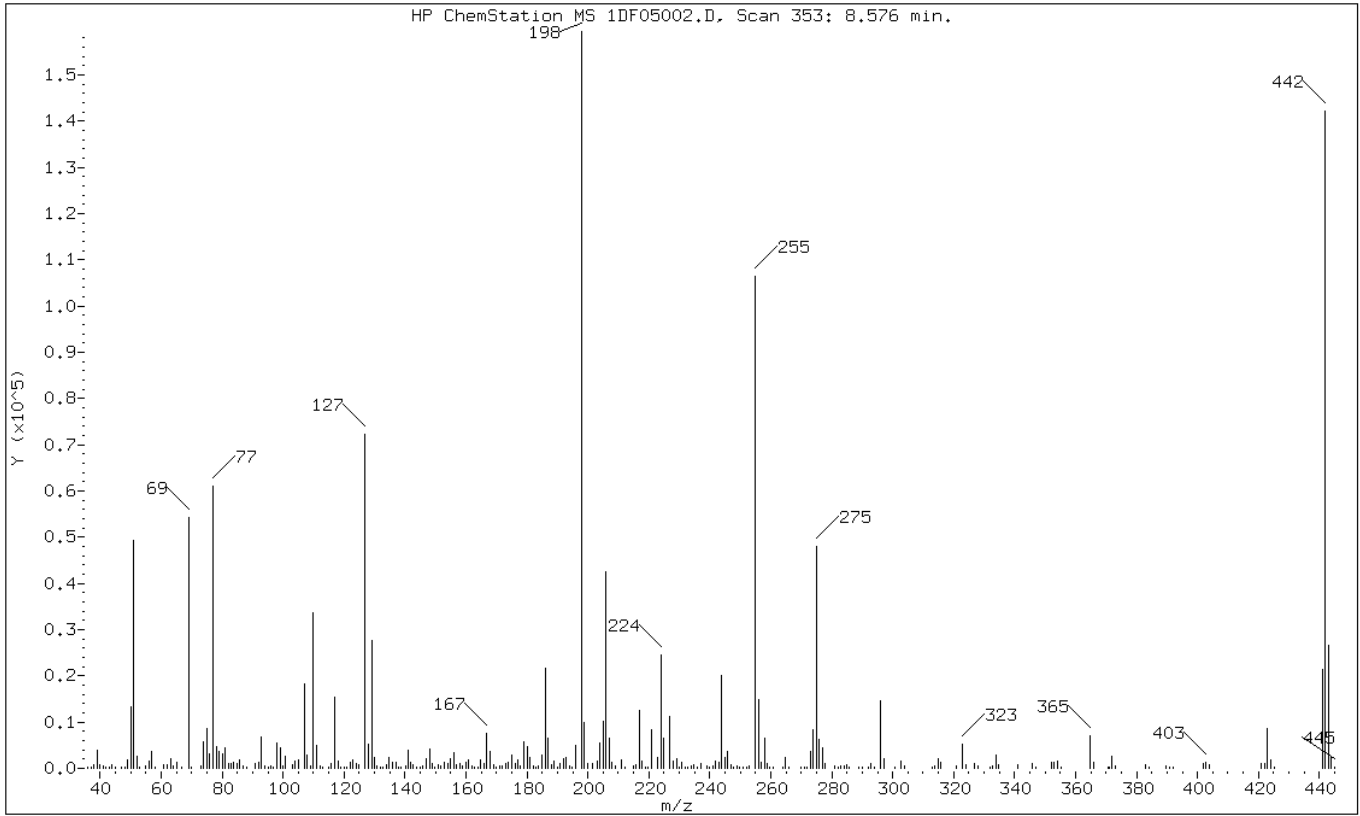
Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	30.93
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.00
70	Less than 2.00% of mass 69	0.23 (0.69)
127	10.00 - 80.00% of mass 198	45.39
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	89.12
199	5.00 - 9.00% of mass 198	6.27
275	10.00 - 60.00% of mass 198	30.05
365	Greater than 1.00% of mass 198	4.48
441	Present, but less than mass 443	13.48
443	15.00 - 24.00% of mass 442	16.76 (18.80)

Data File: 1DF05002.D

Date: 05-JUN-2013 11:38

Client ID: DFTPP

Instrument: BSMSD.i

Sample Info: DFTPP-1525850

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05002.D

Spectrum: HP ChemStation MS 1DF05002.D, Scan 353: 8.576 min.

Location of Maximum: 197.90

Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	270	118.00	1436	188.00	770	271.10	340
37.00	282	118.90	241	188.90	1626	271.90	354
38.00	724	120.10	259	190.10	298	272.90	3711
39.00	3859	120.90	151	190.90	997	274.00	8412
40.00	753	121.90	1357	191.90	2151	274.90	47888
41.10	466	122.90	1929	192.90	2273	275.90	6382
41.90	203	124.00	928	193.90	552	277.00	4492
43.00	298	125.00	682	194.90	322	277.90	928
44.00	702	127.00	72328	195.90	4897	280.90	401
45.00	218	128.00	5161	197.90	159360	282.00	183
47.00	294	129.00	27632	198.90	9993	283.00	537
48.20	223	129.90	2252	199.90	961	284.00	434
49.00	1767	130.90	493	201.40	1036	284.90	810
50.00	13235	131.90	313	202.90	1510	285.80	171
51.00	49288	132.80	227	203.90	5538	288.90	338
52.00	2619	133.90	881	204.90	10124	290.00	225
52.90	225	134.90	2342	206.00	42504	292.00	213
55.00	449	136.00	1178	207.00	6478	292.90	1083
55.90	1516	137.00	1307	208.00	1412	294.00	375
57.00	3532	137.90	347	208.90	594	295.90	14641
58.00	162	138.80	237	211.00	1872	297.00	2166
60.90	750	140.10	410	212.20	188	300.90	297
62.00	660	141.00	3917	214.90	509	302.90	1616
63.00	2109	141.90	1206	215.80	840	303.90	576
63.90	433	142.80	882	216.90	12452	313.00	158
65.00	1389	144.00	267	217.90	1483	313.90	615
66.90	347	144.90	269	218.80	241	314.90	1969
69.00	54176	145.90	556	219.70	207	315.90	1210
69.90	373	147.00	2157	220.90	8454	320.90	509
73.00	644	148.00	4281	222.90	2423	323.00	5109
74.00	5657	148.90	950	224.00	24640	324.00	812
75.00	8664	149.90	315	225.00	6531	326.90	1022
76.00	3220	150.90	661	226.90	11208	327.90	626
77.00	61040	151.80	490	227.90	1598	331.90	237
78.00	4719	152.90	1398	229.00	2156	332.90	612
79.00	3672	154.00	923	229.90	286	333.90	2850
80.00	3062	154.90	2163	230.90	1223	334.90	698
81.00	4525	156.00	3280	232.00	212	341.00	693
82.00	1085	156.90	670	232.80	238	345.90	1161
83.00	1161	157.90	915	233.90	612	346.80	257

83.90	1175	158.90	543	234.80	688	352.00	1423
85.00	956	159.90	1203	235.80	381	352.90	1228
85.90	1881	160.90	1814	236.90	976	354.00	1513
87.00	635	162.00	608	238.90	405	355.10	265
88.00	292	162.90	205	239.90	274	364.90	7139
+-----+							
90.90	1155	164.10	161	241.00	650	365.80	1250
92.00	1228	164.90	1870	242.00	1462	370.70	277
92.90	6834	166.00	1036	243.00	1206	371.00	340
94.10	568	166.90	7525	244.00	20128	371.90	2685
95.00	260	168.00	3730	245.00	2241	373.00	607
+-----+							
95.90	473	169.10	669	245.90	3694	383.00	740
96.80	169	170.00	291	246.90	855	384.00	313
98.00	5520	170.90	485	247.80	209	389.80	444
99.00	4554	172.00	633	248.90	647	391.00	377
99.90	515	172.90	998	249.80	253	391.90	171
+-----+							
100.90	2513	174.00	1382	250.90	183	401.90	1050
102.90	863	175.00	2783	252.00	247	402.90	1354
103.90	1519	176.10	1015	252.90	439	403.80	675
105.00	1733	176.90	1743	254.90	106472	420.90	1020
107.00	18160	177.90	545	255.90	14796	421.90	960
+-----+							
107.90	2860	178.90	5788	257.00	1336	422.90	8505
108.90	621	180.00	4596	257.90	6489	423.90	1712
109.90	33768	180.90	2249	258.90	1016	425.10	188
110.90	5068	182.00	491	259.70	152	441.00	21488
112.00	630	182.90	204	261.00	191	441.90	142016
+-----+							
113.00	239	183.90	486	263.90	235	442.90	26704
114.90	164	185.00	2771	264.90	2404	443.90	2324
115.90	916	186.00	21736	265.90	319	445.00	191
116.90	15474	187.00	6574	269.90	179		
+-----+							

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: MB 660-137845/1-A
 Matrix: Solid Lab File ID: 1AE29009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.29(g) Date Analyzed: 05/29/2013 16:04
 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.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	98	U	98	20
208-96-8	Acenaphthylene	39	U	39	4.9
120-12-7	Anthracene	8.2	U	8.2	4.1
56-55-3	Benzo[a]anthracene	7.8	U	7.8	3.8
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.3
207-08-9	Benzo[k]fluoranthene	7.8	U	7.8	3.5
218-01-9	Chrysene	8.8	U	8.8	4.4
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.0
206-44-0	Fluoranthene	20	U	20	3.9
86-73-7	Fluorene	20	U	20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	39	U	39	4.3
91-57-6	2-Methylnaphthalene	39	U	39	7.0
91-20-3	Naphthalene	39	U	39	4.3
85-01-8	Phenanthrene	7.8	U	7.8	3.8
129-00-0	Pyrene	20	U	20	3.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29009.D
 Lab Smp Id: MB 660-137845/1-A
 Inj Date : 29-MAY-2013 16:04
 Operator : SCC
 Smp Info : MB 660-137845/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29009.D
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.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	15.290	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136			2.509	2.512	(1.000)	1343682	40.0000	
* 7 Acenaphthene-d10	164			3.534	3.533	(1.000)	846854	40.0000	
* 11 Phenanthrene-d10	188			4.480	4.478	(1.000)	1211040	40.0000	
\$ 15 o-Terphenyl	230			4.768	4.772	(1.064)	86551	4.94132	323.1730
* 19 Chrysene-d12	240			6.488	6.492	(1.000)	1139541	40.0000	
* 24 Perylene-d12	264			7.578	7.571	(1.000)	1014927	40.0000	
12 Phenanthrene	178			4.490	4.494	(1.002)	939	0.03443	2.2516(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1AE29009.D

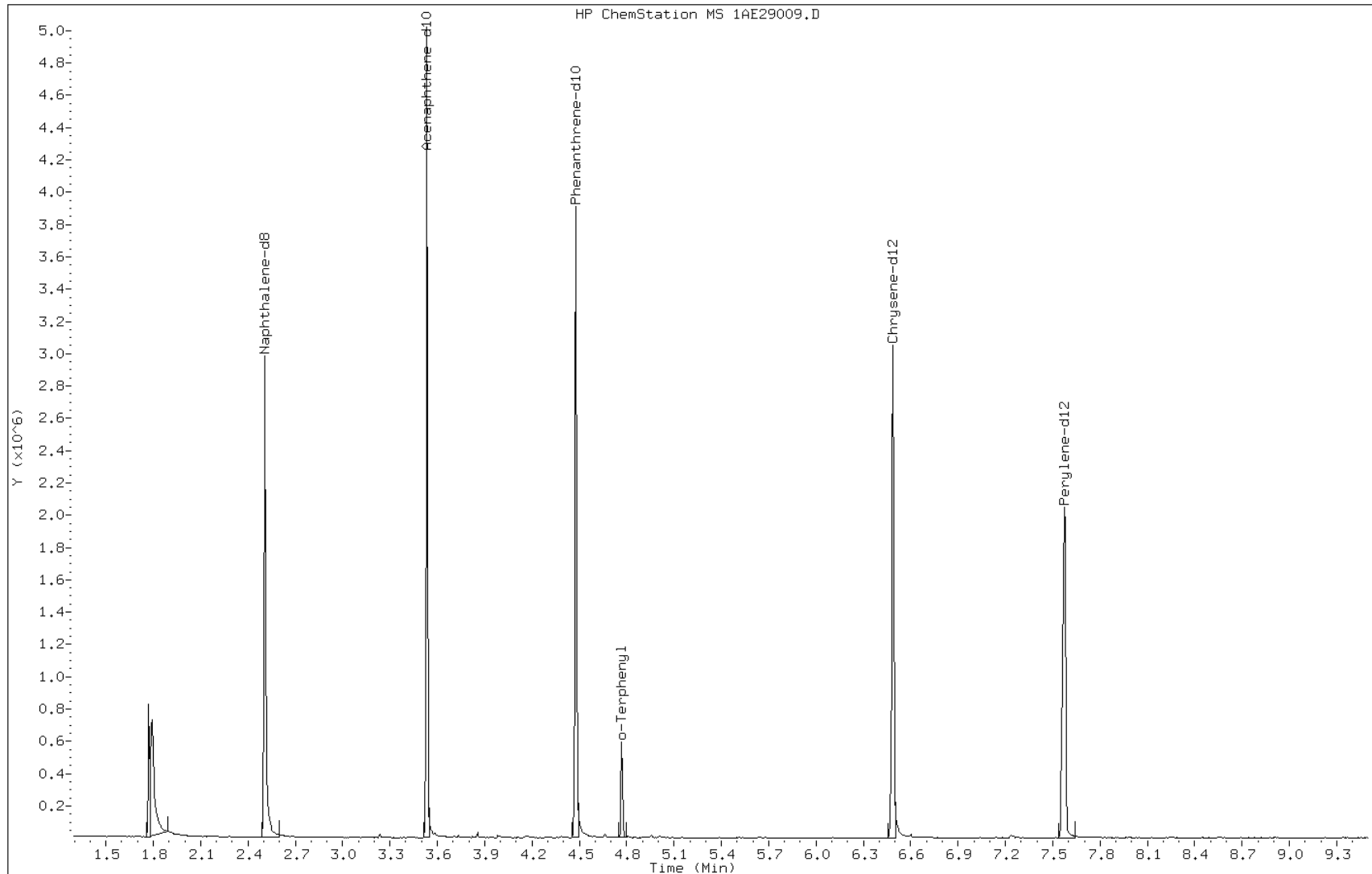
Date: 29-MAY-2013 16:04

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-137845/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: MB 660-137947/1-A
 Matrix: Solid Lab File ID: 1DF05006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.01(g) Date Analyzed: 06/05/2013 13:02
 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.: 138106 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	84		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05006.D
 Lab Smp Id: mb 660-137947/1-a
 Inj Date : 05-JUN-2013 13:02
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : mb 660-137947/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dfASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.261	6.265	(1.000)	3666651	40.0000		
* 7 Acenaphthene-d10	164		7.936	7.934	(1.000)	1997867	40.0000		
* 11 Phenanthrene-d10	188		9.193	9.191	(1.000)	3107850	40.0000		
\$ 15 o-Terphenyl	230		9.499	9.503	(1.033)	383836	8.43024	560	
* 19 Chrysene-d12	240		11.549	11.553	(1.000)	2518522	40.0000		
* 24 Perylene-d12	264		13.453	13.457	(1.000)	2463253	40.0000		
12 Phenanthrene	178		9.211	9.215	(1.002)	4405	0.05233	3.5(Q)	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: 1DF05006.D

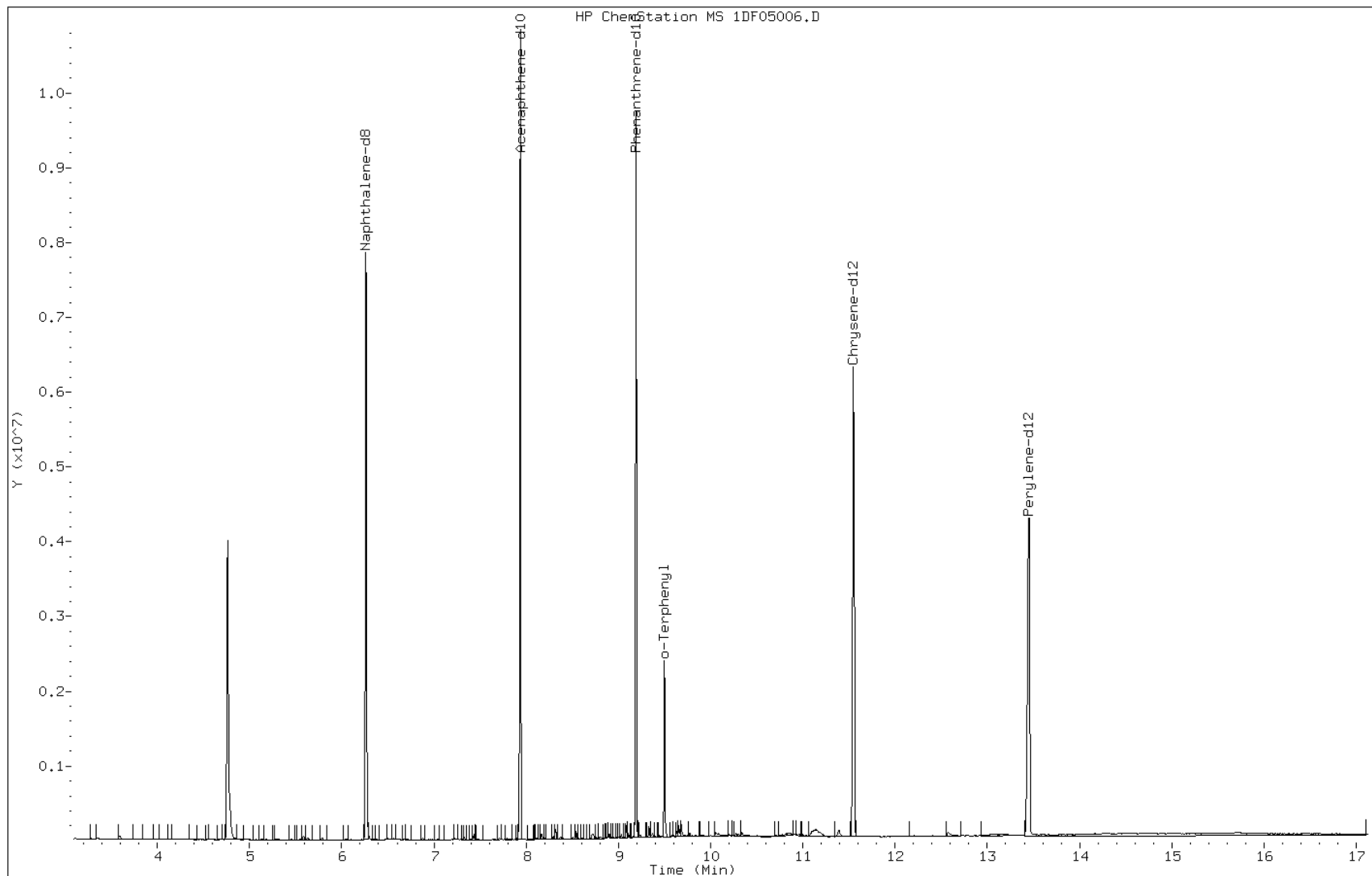
Date: 05-JUN-2013 13:02

Client ID:

Instrument: BSMSD.i

Sample Info: mb 660-137947/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-137845/2-A
 Matrix: Solid Lab File ID: 1AE29012.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.38(g) Date Analyzed: 05/29/2013 16:58
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	395		98	20
208-96-8	Acenaphthylene	383		39	4.9
120-12-7	Anthracene	362		8.2	4.1
56-55-3	Benzo[a]anthracene	417		7.8	3.8
50-32-8	Benzo[a]pyrene	320		10	5.1
205-99-2	Benzo[b]fluoranthene	261		12	5.9
191-24-2	Benzo[g,h,i]perylene	412		20	4.3
207-08-9	Benzo[k]fluoranthene	368		7.8	3.5
218-01-9	Chrysene	429		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	346		20	4.0
206-44-0	Fluoranthene	328		20	3.9
86-73-7	Fluorene	415		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	314		20	6.9
90-12-0	1-Methylnaphthalene	428		39	4.3
91-57-6	2-Methylnaphthalene	405		39	6.9
91-20-3	Naphthalene	412		39	4.3
85-01-8	Phenanthrene	396		7.8	3.8
129-00-0	Pyrene	395		20	3.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29012.D
 Lab Smp Id: lcs 660-137845/2-a
 Inj Date : 29-MAY-2013 16:58
 Operator : SCC
 Smp Info : lcs 660-137845/2-a
 Misc Info : RE-RUN W/DIFF INT
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29012.D
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 9 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE
 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	15.380	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		2.506	2.512	(1.000)	1203952	40.0000		
* 7 Acenaphthene-d10	164		3.537	3.533	(1.000)	731060	40.0000		
* 11 Phenanthrene-d10	188		4.482	4.478	(1.000)	1210659	40.0000		
\$ 15 o-Terphenyl	230		4.771	4.772	(1.064)	95805	5.47136	355.7451	
* 19 Chrysene-d12	240		6.496	6.492	(1.000)	980501	40.0000		
* 24 Perylene-d12	264		7.581	7.571	(1.000)	811272	40.0000		
2 Naphthalene	128		2.517	2.518	(1.004)	172890	6.34253	412.3884(M)	
3 2-Methylnaphthalene	141		2.922	2.924	(1.166)	80853	6.22960	405.0454(M)	
4 1-Methylnaphthalene	142		2.976	2.977	(1.188)	124871	6.58694	428.2795(M)	
6 Acenaphthylene	152		3.446	3.447	(0.974)	188534	5.89403	383.2269	
8 Acenaphthene	154		3.553	3.554	(1.005)	103816	6.07232	394.8192	
9 Dibenzofuran	168		3.654	3.655	(1.033)	156215	5.96821	388.0498	
10 Fluorene	166		3.863	3.864	(1.092)	126619	6.37969	414.8044	
12 Phenanthrene	178		4.493	4.494	(1.002)	166177	6.09461	396.2685	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Anthracene	178	4.525	4.526	(1.010)	158805	5.56736	361.9868
16 Fluoranthene	202	5.353	5.354	(1.194)	171714	5.04395	327.9551
17 Pyrene	202	5.513	5.515	(0.849)	179418	6.07260	394.8373(M)
18 Benzo(a)anthracene	228	6.480	6.481	(0.998)	177149	6.41182	416.8935
20 Chrysene	228	6.507	6.508	(1.002)	172694	6.59777	428.9838(M)
21 Benzo(b)fluoranthene	252	7.298	7.299	(0.963)	93437	4.01602	261.1199(H)
22 Benzo(k)fluoranthene	252	7.314	7.320	(0.965)	152955	5.66677	368.4506(M)
23 Benzo(a)pyrene	252	7.522	7.523	(0.992)	97495	4.92650	320.3186
25 Indeno(1,2,3-cd)pyrene	276	8.313	8.314	(1.097)	93758	4.82994	314.0405(M)
26 Dibenzo(a,h)anthracene	278	8.334	8.341	(1.099)	101697	5.32362	346.1393(M)
27 Benzo(g,h,i)perylene	276	8.521	8.522	(1.124)	110268	6.33446	411.8635(M)

QC Flag Legend

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

Data File: 1AE29012.D

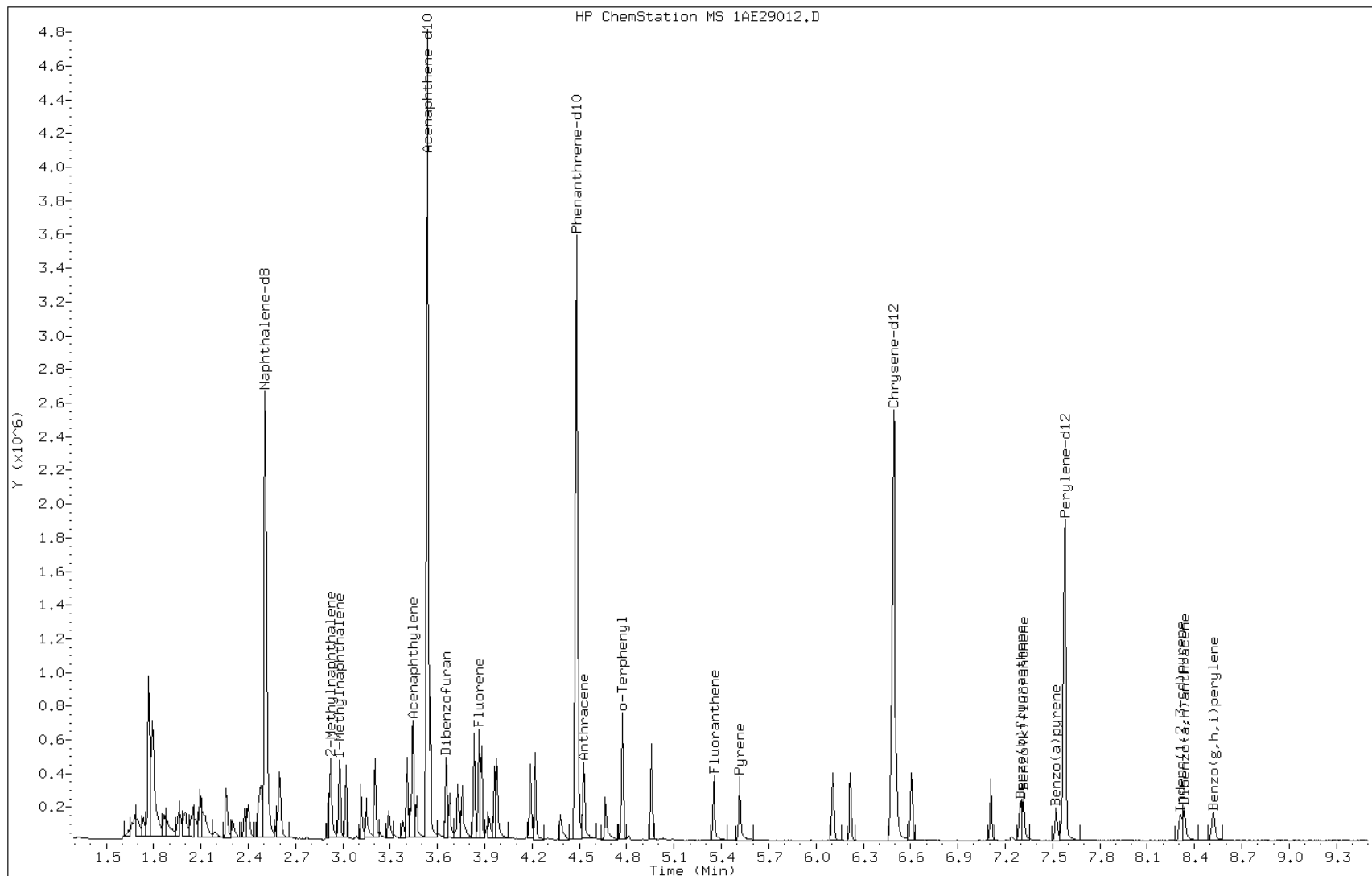
Date: 29-MAY-2013 16:58

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-137845/2-a

Operator: SCC

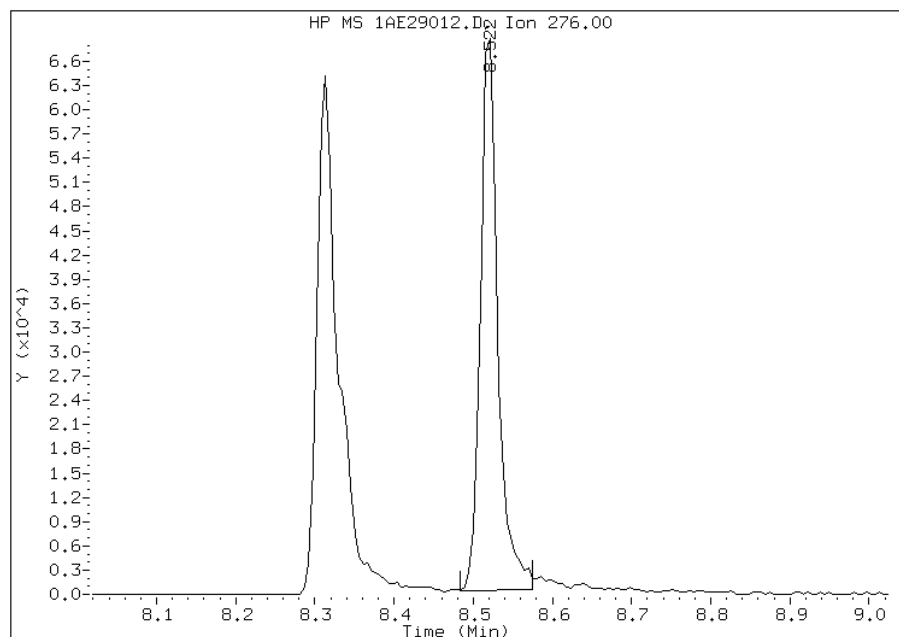


Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 27 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/30/2013

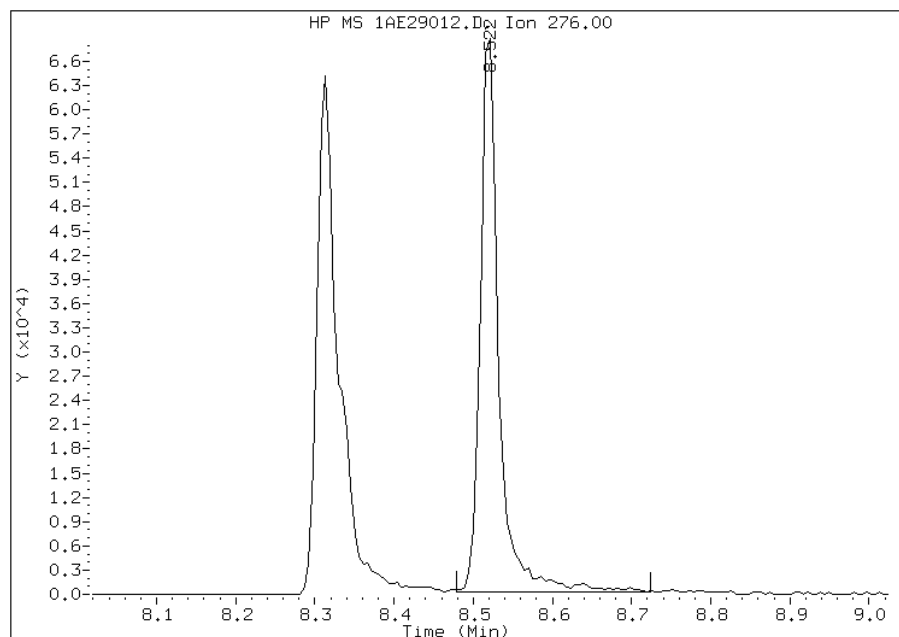
Processing Integration Results

RT: 8.52
Response: 103454
Amount: 6
Conc: 386



Manual Integration Results

RT: 8.52
Response: 110268
Amount: 6
Conc: 412



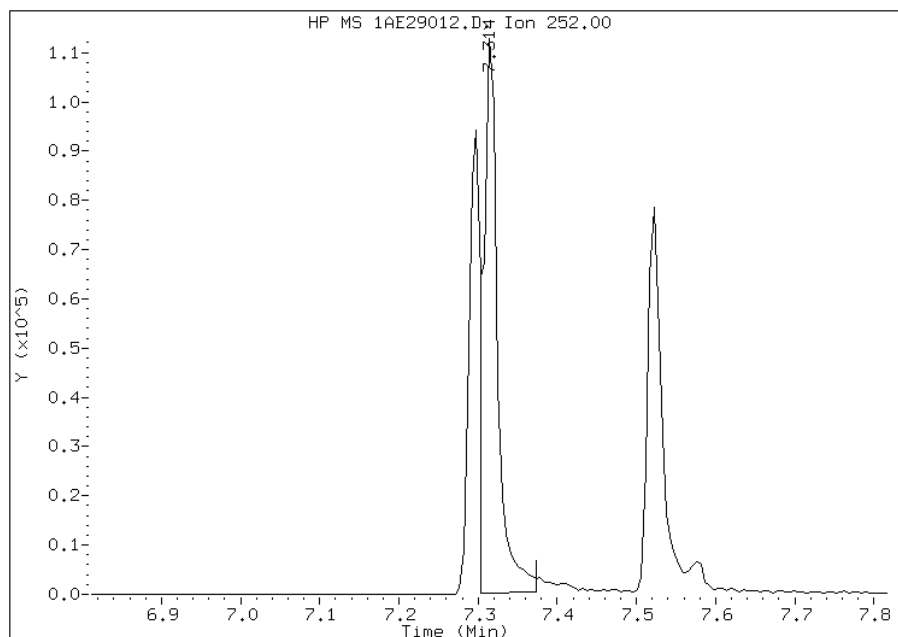
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

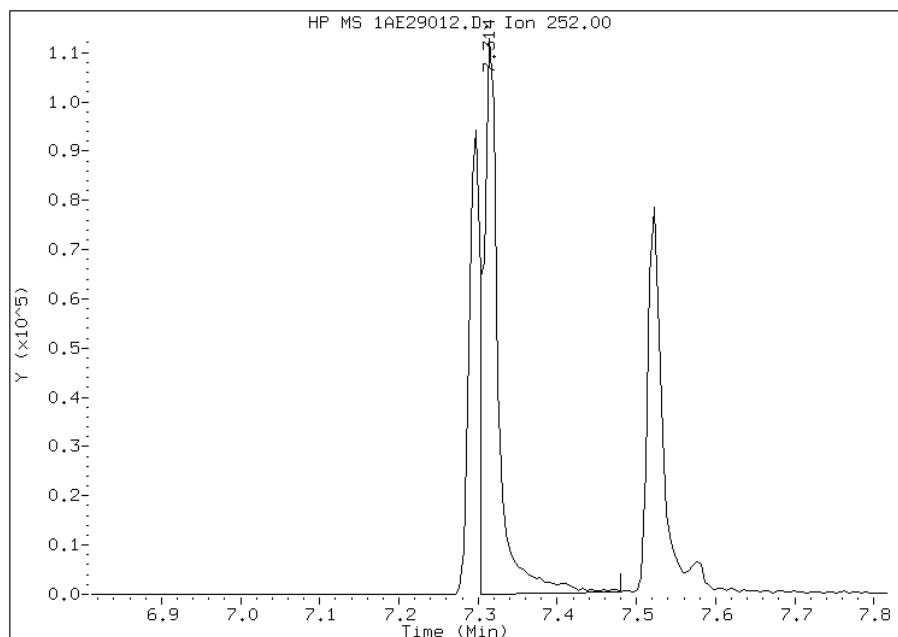
Processing Integration Results

RT: 7.31
Response: 144132
Amount: 5
Conc: 347



Manual Integration Results

RT: 7.31
Response: 152955
Amount: 6
Conc: 368



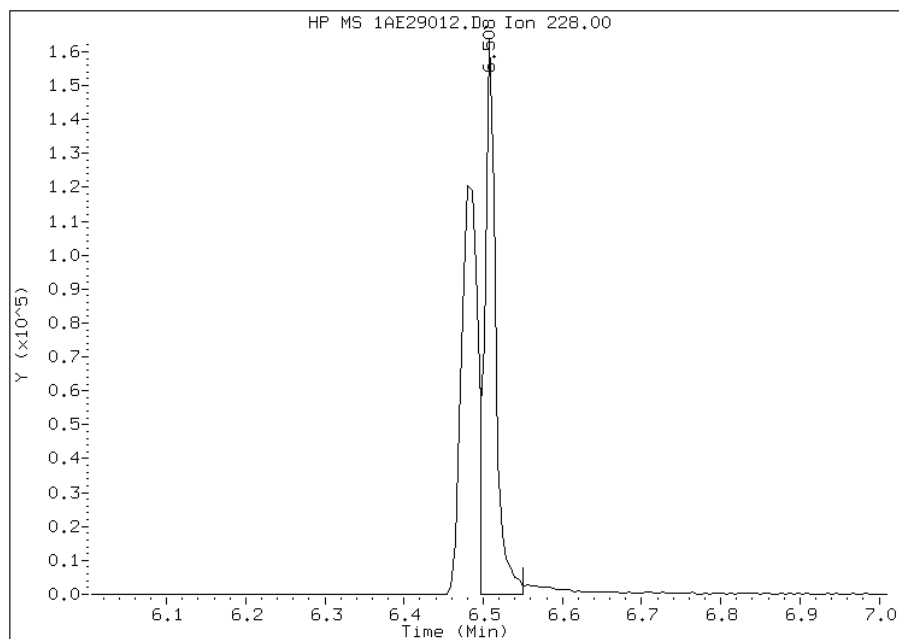
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 20 Chrysene
CAS #: 218-01-9
Report Date: 05/30/2013

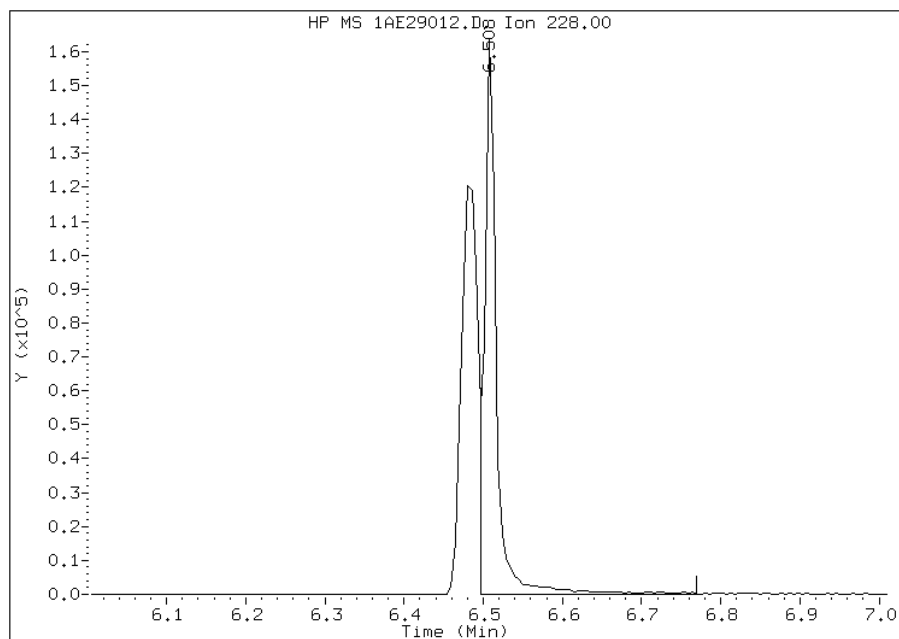
Processing Integration Results

RT: 6.51
Response: 159696
Amount: 6
Conc: 397



Manual Integration Results

RT: 6.51
Response: 172694
Amount: 7
Conc: 429



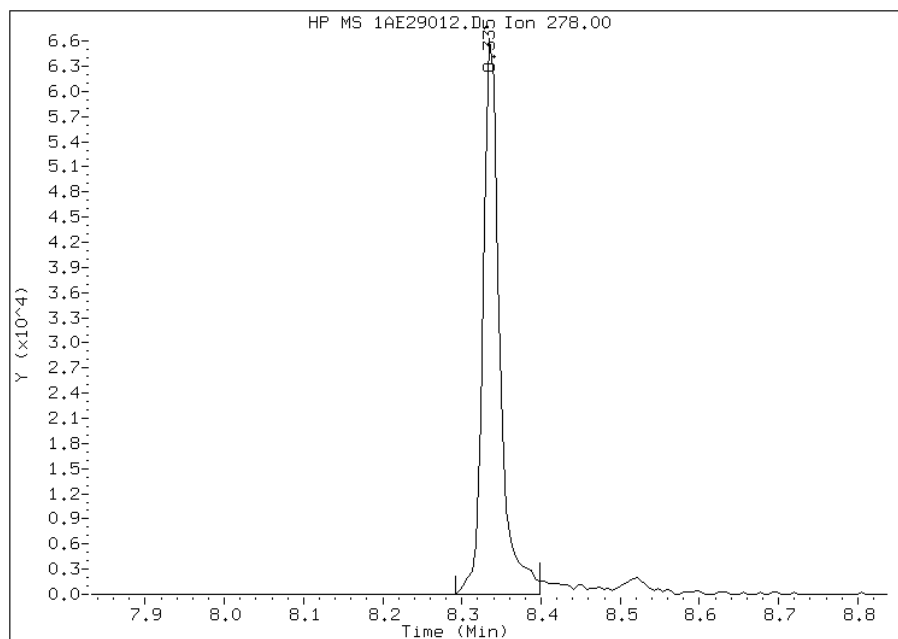
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/30/2013

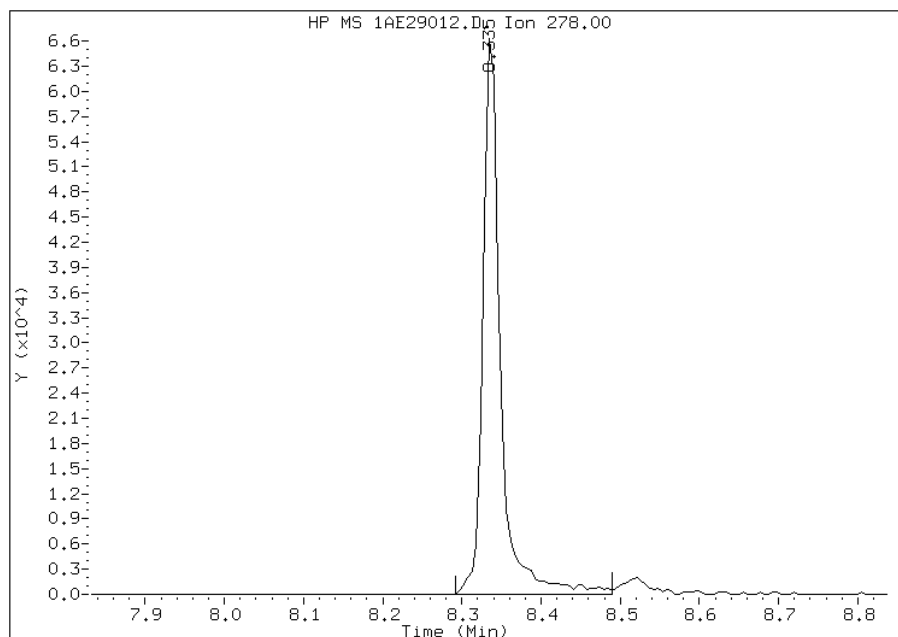
Processing Integration Results

RT: 8.33
Response: 96481
Amount: 5
Conc: 329



Manual Integration Results

RT: 8.33
Response: 101697
Amount: 5
Conc: 346



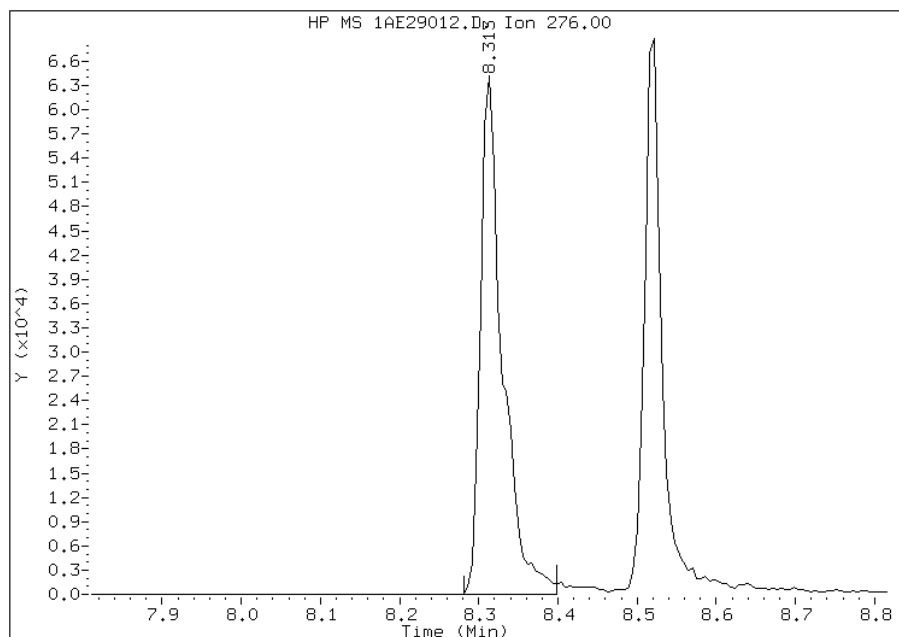
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

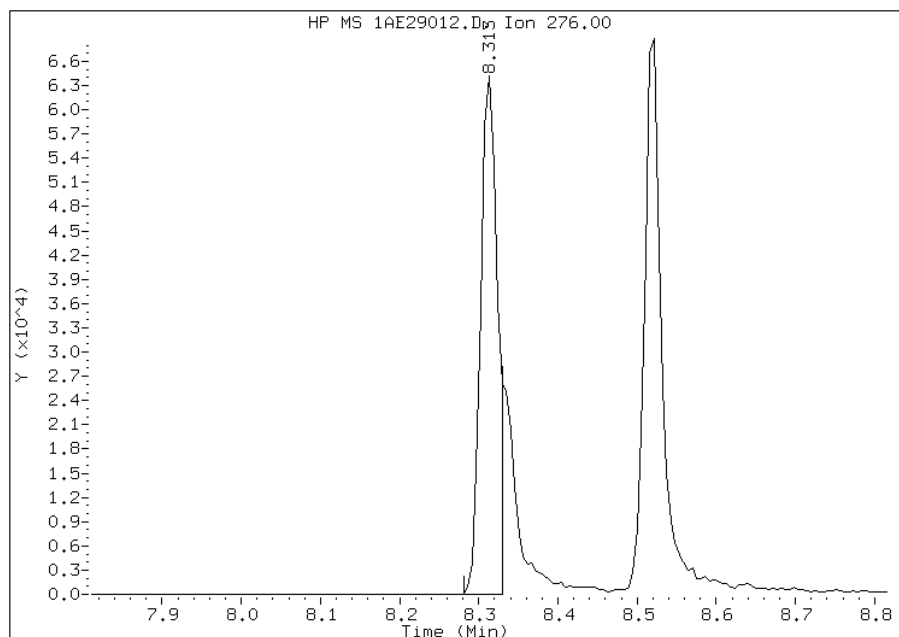
Processing Integration Results

RT: 8.31
Response: 122981
Amount: 6
Conc: 409



Manual Integration Results

RT: 8.31
Response: 93758
Amount: 5
Conc: 314



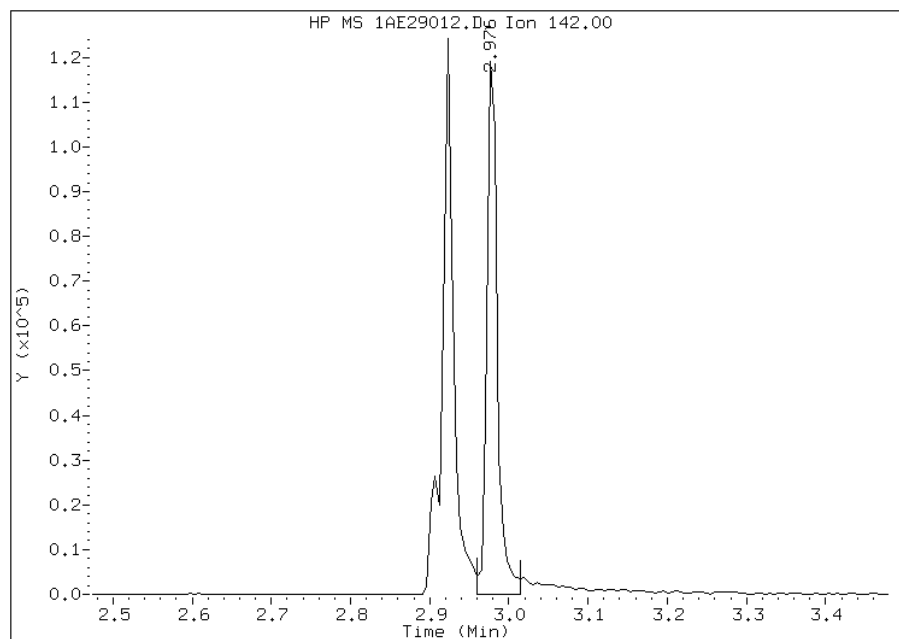
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 4 1-Methylnaphthalene
CAS #: 90-12-0
Report Date: 05/30/2013

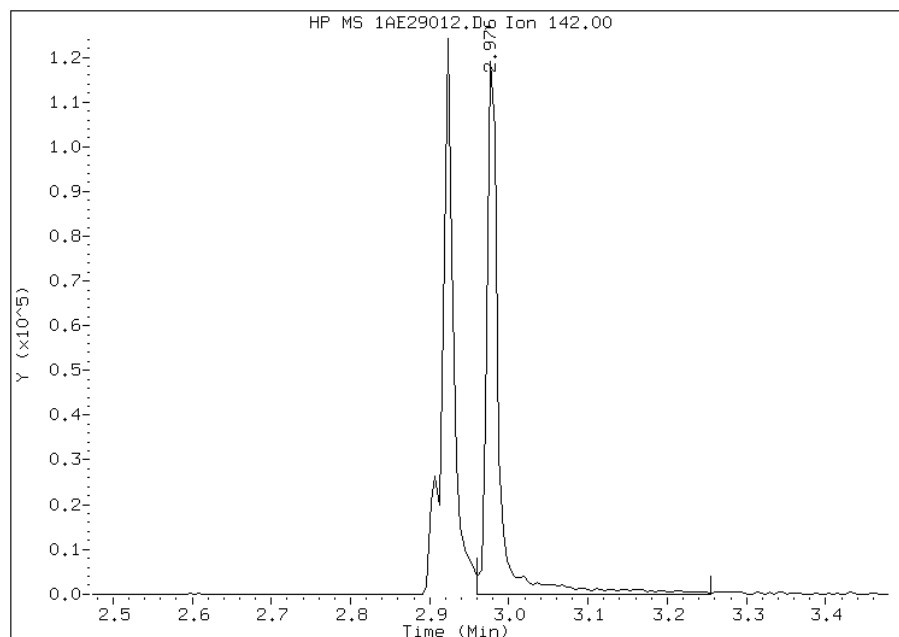
Processing Integration Results

RT: 2.98
Response: 107429
Amount: 6
Conc: 368



Manual Integration Results

RT: 2.98
Response: 124871
Amount: 7
Conc: 428



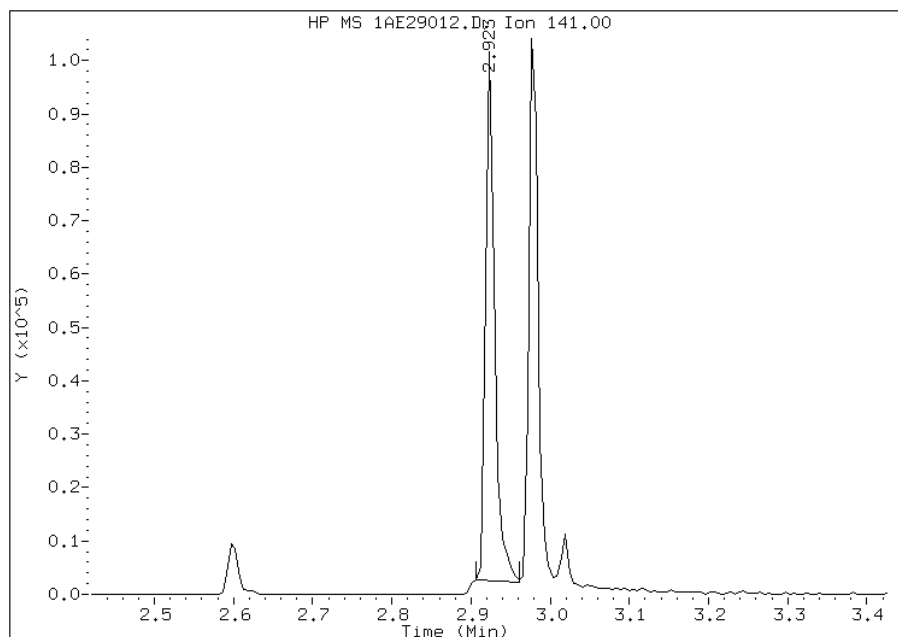
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 3 2-Methylnaphthalene
CAS #: 91-57-6
Report Date: 05/30/2013

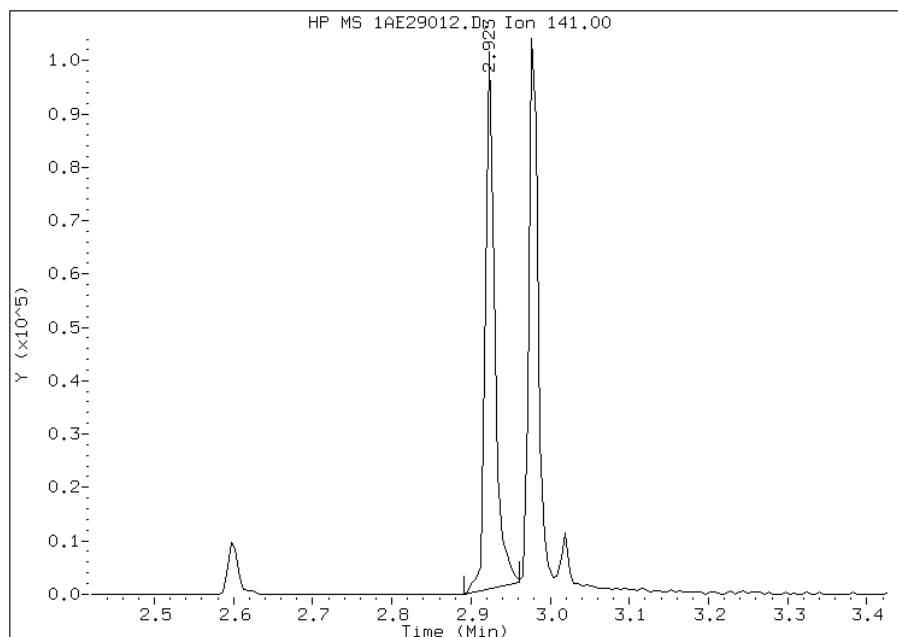
Processing Integration Results

RT: 2.92
Response: 76091
Amount: 6
Conc: 381



Manual Integration Results

RT: 2.92
Response: 80853
Amount: 6
Conc: 405



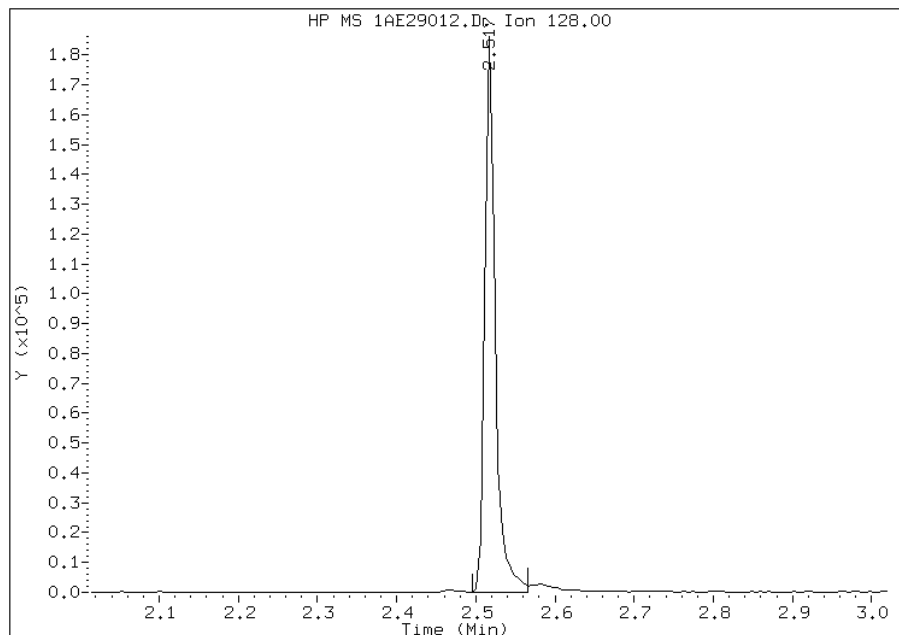
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 2 Naphthalene
CAS #: 91-20-3
Report Date: 05/30/2013

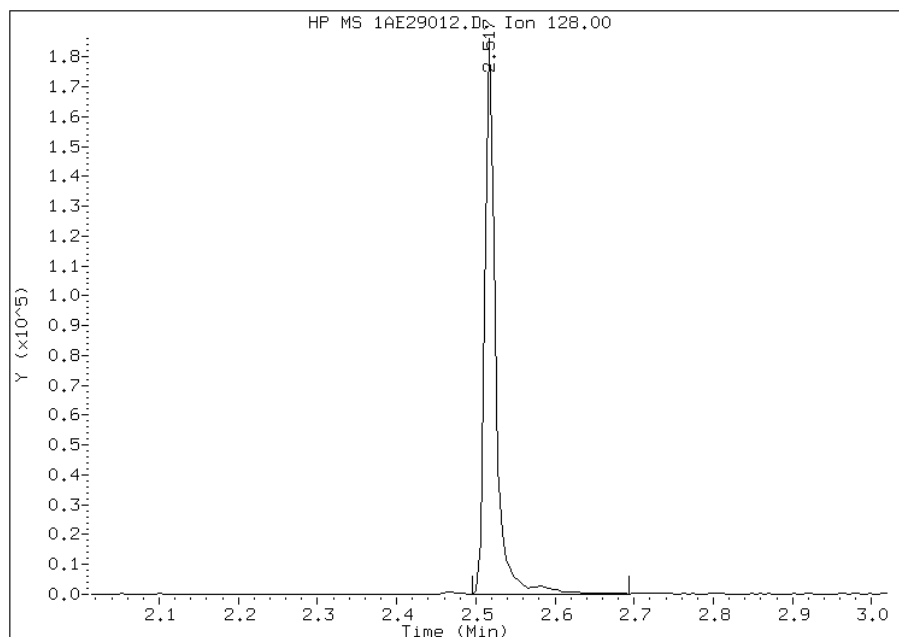
Processing Integration Results

RT: 2.52
Response: 166007
Amount: 6
Conc: 396



Manual Integration Results

RT: 2.52
Response: 172890
Amount: 6
Conc: 412



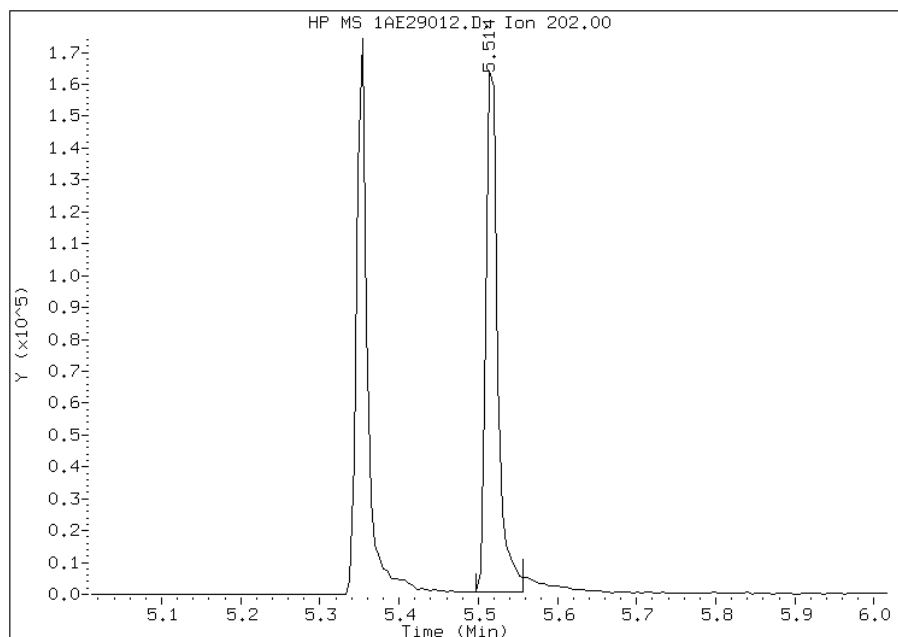
Manually Integrated By: cantins
Modification Date: 30-May-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29012.D
Inj. Date and Time: 29-MAY-2013 16:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 17 Pyrene
CAS #: 129-00-0
Report Date: 05/30/2013

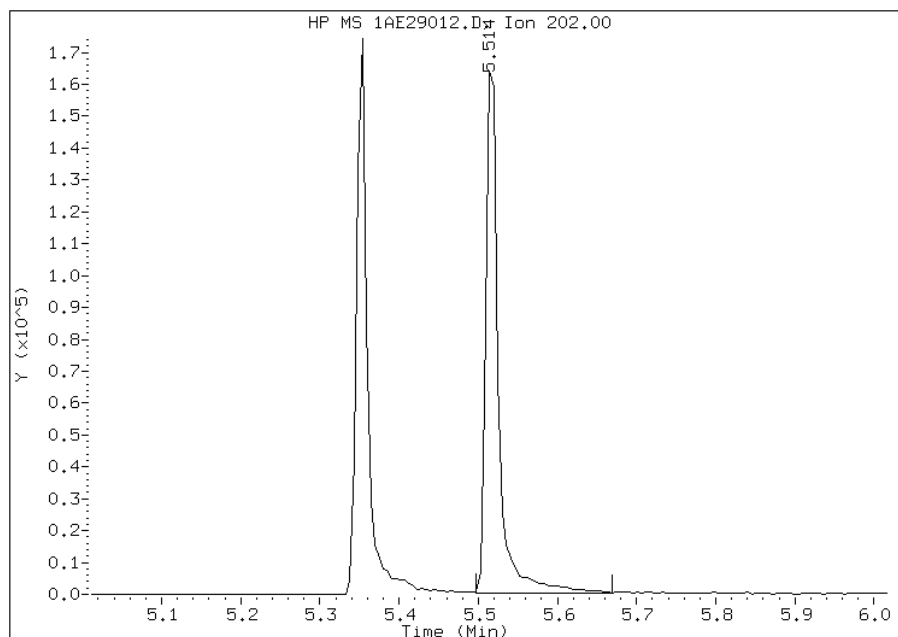
Processing Integration Results

RT: 5.51
Response: 167920
Amount: 6
Conc: 370



Manual Integration Results

RT: 5.51
Response: 179418
Amount: 6
Conc: 395



Manually Integrated By: cantins
Modification Date: 30-May-2013 10:01
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-137947/2-A
 Matrix: Solid Lab File ID: 1DF05007.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.03(g) Date Analyzed: 06/05/2013 13:24
 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.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	529		100	20
208-96-8	Acenaphthylene	576		40	5.0
120-12-7	Anthracene	591		8.4	4.2
56-55-3	Benzo[a]anthracene	545		8.0	3.9
50-32-8	Benzo[a]pyrene	521		10	5.2
205-99-2	Benzo[b]fluoranthene	588		12	6.1
191-24-2	Benzo[g,h,i]perylene	618		20	4.4
207-08-9	Benzo[k]fluoranthene	562		8.0	3.6
218-01-9	Chrysene	575		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	572		20	4.1
206-44-0	Fluoranthene	572		20	4.0
86-73-7	Fluorene	568		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	537		20	7.1
90-12-0	1-Methylnaphthalene	505		40	4.4
91-57-6	2-Methylnaphthalene	535		40	7.1
91-20-3	Naphthalene	529		40	4.4
85-01-8	Phenanthrene	569		8.0	3.9
129-00-0	Pyrene	613		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05007.D
 Lab Smp Id: lcs 660-137947/2-a
 Inj Date : 05-JUN-2013 13:24
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : lcs 660-137947/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.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	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.263	6.265	(1.000)	3388994	40.0000	
* 7 Acenaphthene-d10	164		7.937	7.934	(1.000)	1879829	40.0000	
* 11 Phenanthrene-d10	188		9.195	9.191	(1.000)	2952631	40.0000	
\$ 15 o-Terphenyl	230		9.500	9.503	(1.033)	343406	7.93877	530
* 19 Chrysene-d12	240		11.551	11.553	(1.000)	2613136	40.0000	
* 24 Perylene-d12	264		13.454	13.457	(1.000)	2620924	40.0000	
2 Naphthalene	128		6.286	6.289	(1.004)	664662	7.95295	530
3 2-Methylnaphthalene	142		6.985	6.988	(1.115)	427638	8.03633	530
4 1-Methylnaphthalene	142		7.079	7.076	(1.130)	415954	7.59283	500
5 1,1'-Biphenyl	154		7.420	7.423	(0.935)	712	0.01121	0.74(aR)
6 Acenaphthylene	152		7.808	7.811	(0.984)	674344	8.65204	580
8 Acenaphthene	154		7.961	7.963	(1.003)	393045	7.94943	530
9 Dibenzofuran	168		8.108	8.110	(1.021)	574901	8.43275	560
10 Fluorene	166		8.401	8.404	(1.058)	477794	8.54073	570

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.212	9.215 (1.002)		683431	8.54642	570
13 Anthracene	178	9.253	9.256 (1.006)		689476	8.88615	590
16 Fluoranthene	202	10.193	10.196 (1.109)		703252	8.59625	570
17 Pyrene	202	10.381	10.384 (0.899)		704385	9.20688	610
18 Benzo(a)anthracene	228	11.533	11.542 (0.998)		635412	8.19334	540
20 Chrysene	228	11.580	11.583 (1.003)		603715	8.64497	580
21 Benzo(b)fluoranthene	252	12.890	12.893 (0.958)		580020	8.83369	590
22 Benzo(k)fluoranthene	252	12.926	12.934 (0.961)		580625	8.44434	560
23 Benzo(a)pyrene	252	13.354	13.363 (0.993)		502764	7.83294	520
25 Indeno(1,2,3-cd)pyrene	276	15.088	15.102 (1.121)		539689	8.07006	540
26 Dibenzo(a,h)anthracene	278	15.129	15.137 (1.124)		533704	8.59219	570
27 Benzo(g,h,i)perylene	276	15.558	15.572 (1.156)		552458	9.28317	620

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: 1DF05007.D

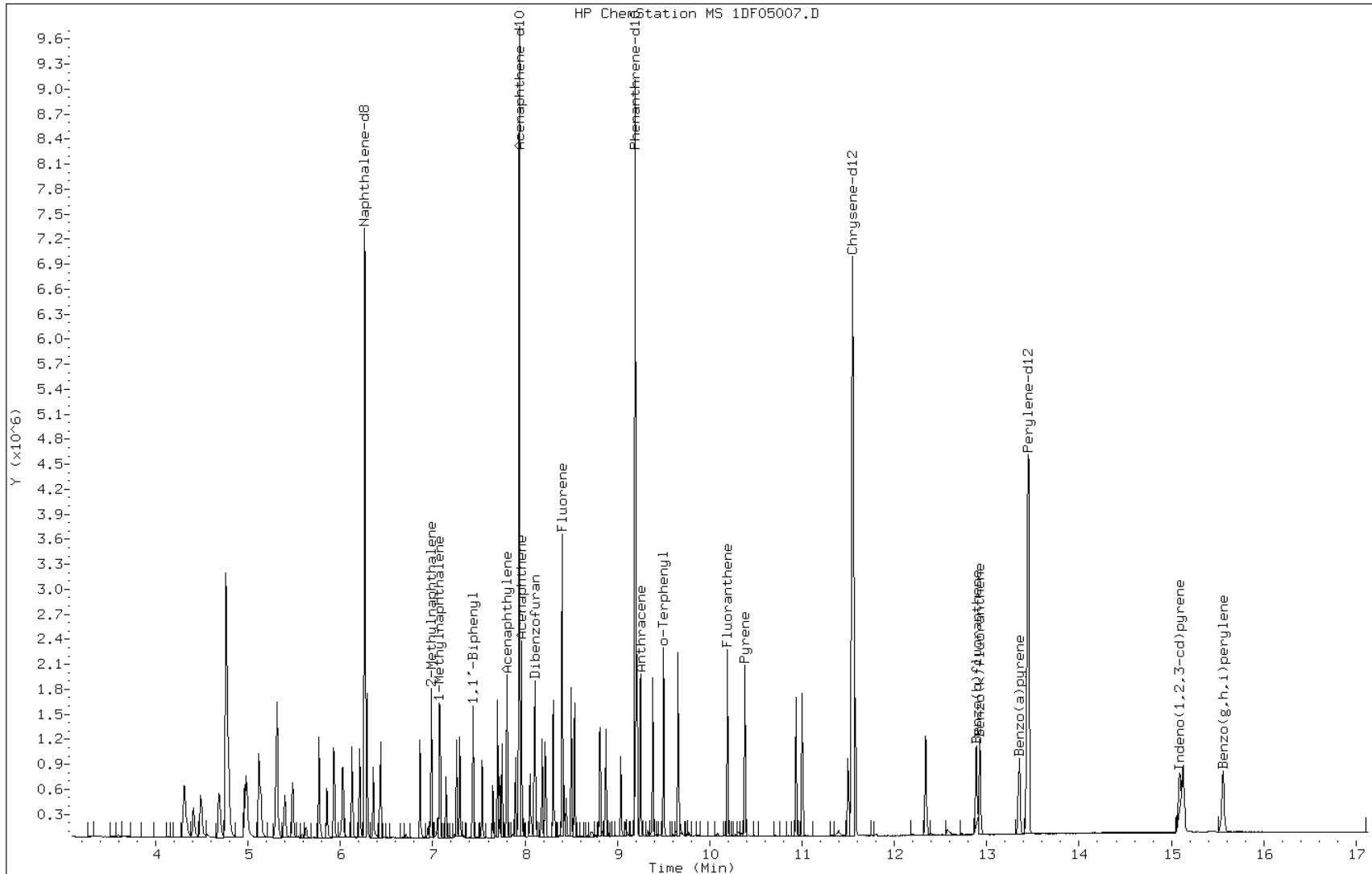
Date: 05-JUN-2013 13:24

Client ID:

Instrument: BSMSD.i

Sample Info: lcs 660-137947/2-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: 680-90686-A-22-B MS
 Matrix: Solid Lab File ID: 1DF05009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.05(g) Date Analyzed: 06/05/2013 14:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	755		490	98
208-96-8	Acenaphthylene	847		200	25
120-12-7	Anthracene	874		41	21
56-55-3	Benzo[a]anthracene	1060		39	19
50-32-8	Benzo[a]pyrene	1020		51	26
205-99-2	Benzo[b]fluoranthene	1210		60	30
191-24-2	Benzo[g,h,i]perylene	1190		98	22
207-08-9	Benzo[k]fluoranthene	977		39	18
218-01-9	Chrysene	1200		44	22
53-70-3	Dibenz(a,h)anthracene	888		98	20
206-44-0	Fluoranthene	1300		98	20
86-73-7	Fluorene	814		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	1100		98	35
90-12-0	1-Methylnaphthalene	854		200	22
91-57-6	2-Methylnaphthalene	940		200	35
91-20-3	Naphthalene	844		200	22
85-01-8	Phenanthrene	1220		39	19
129-00-0	Pyrene	1370		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05009.D
 Lab Smp Id: 680-90686-a-22-b ms
 Inj Date : 05-JUN-2013 14:10
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-22-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 9 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.266	6.265	(1.000)	3218693	40.0000		
* 7 Acenaphthene-d10	164		7.935	7.934	(1.000)	1730193	40.0000		
* 11 Phenanthrene-d10	188		9.192	9.191	(1.000)	2727651	40.0000		
\$ 15 o-Terphenyl	230		9.504	9.503	(1.034)	84914	2.12493	560	
* 19 Chrysene-d12	240		11.554	11.553	(1.000)	2317889	40.0000		
* 24 Perylene-d12	264		13.458	13.457	(1.000)	2645002	40.0000		
2 Naphthalene	128		6.284	6.289	(1.003)	204412	2.57528	680	
3 2-Methylnaphthalene	142		6.983	6.988	(1.114)	144978	2.86863	760	
4 1-Methylnaphthalene	142		7.077	7.076	(1.129)	135667	2.60750	690	
5 1,1'-Biphenyl	154		7.424	7.423	(0.936)	8025	0.13728	36(R)	
6 Acenaphthylene	152		7.806	7.811	(0.984)	185485	2.58565	690	
8 Acenaphthene	154		7.959	7.963	(1.003)	104871	2.30448	610	
9 Dibenzofuran	168		8.105	8.110	(1.021)	163574	2.60684	690	
10 Fluorene	166		8.399	8.404	(1.058)	127991	2.48575	660	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.215	(1.002)	274655	3.71790	990(R)
13 Anthracene	178	9.251	9.256	(1.006)	191356	2.66967	710
16 Fluoranthene	202	10.191	10.196	(1.109)	300343	3.97408	1000(R)
17 Pyrene	202	10.379	10.384	(0.898)	283347	4.17533	1100(R)
18 Benzo(a)anthracene	228	11.537	11.542	(0.998)	222433	3.23351	860
20 Chrysene	228	11.578	11.583	(1.002)	227744	3.67661	980(R)
21 Benzo(b)fluoranthene	252	12.888	12.893	(0.958)	244420	3.68862	980(R)
22 Benzo(k)fluoranthene	252	12.923	12.934	(0.960)	206975	2.98275	790
23 Benzo(a)pyrene	252	13.352	13.363	(0.992)	198563	3.12534	830
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.102	(1.121)	220026	3.34837	890(RM)
26 Dibenzo(a,h)anthracene	278	15.127	15.137	(1.124)	166838	2.71118	720
27 Benzo(g,h,i)perylene	276	15.561	15.572	(1.156)	217339	3.61879	960(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1DF05009.D

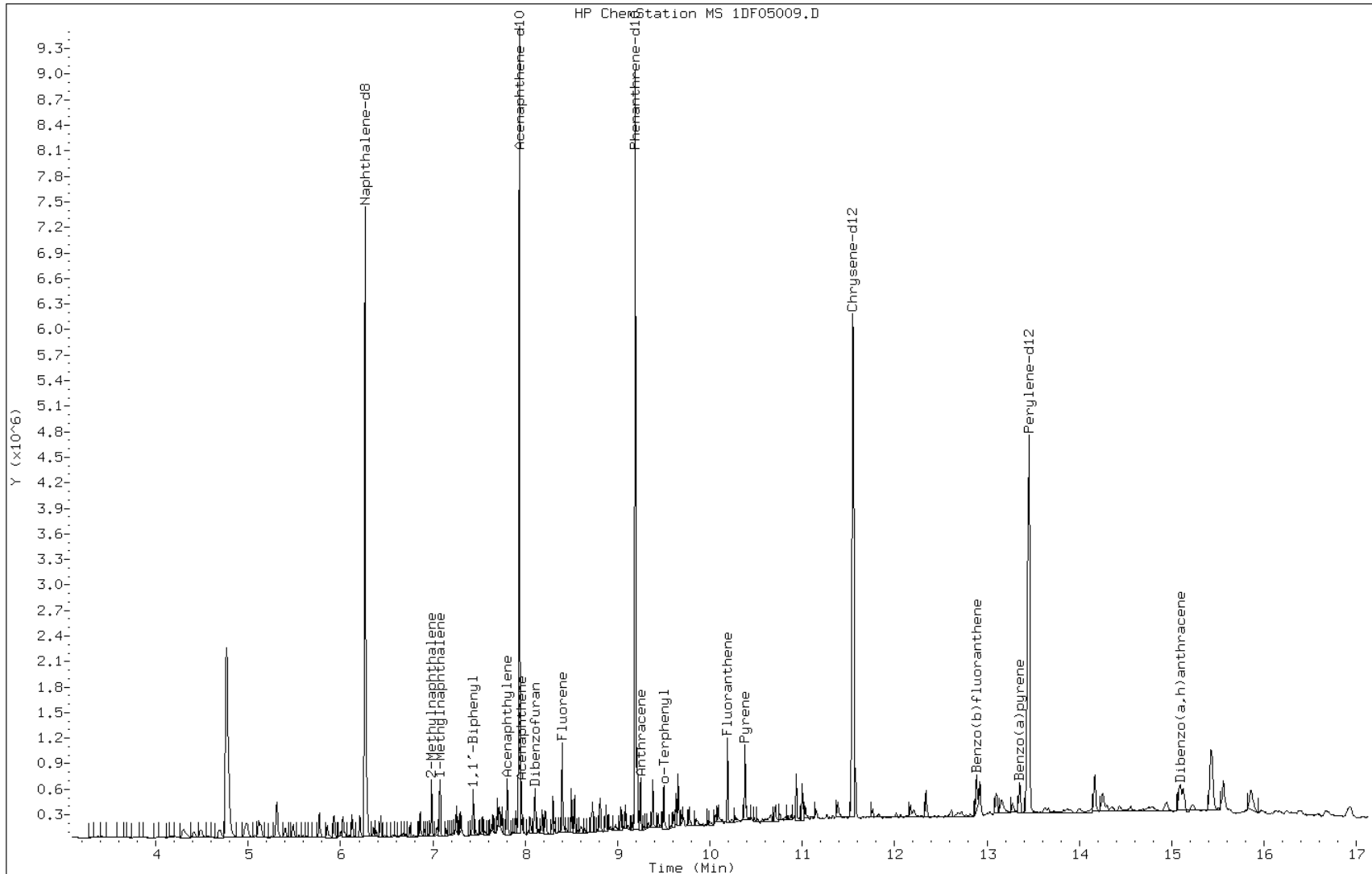
Date: 05-JUN-2013 14:10

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90686-a-22-b ms

Operator: SCC

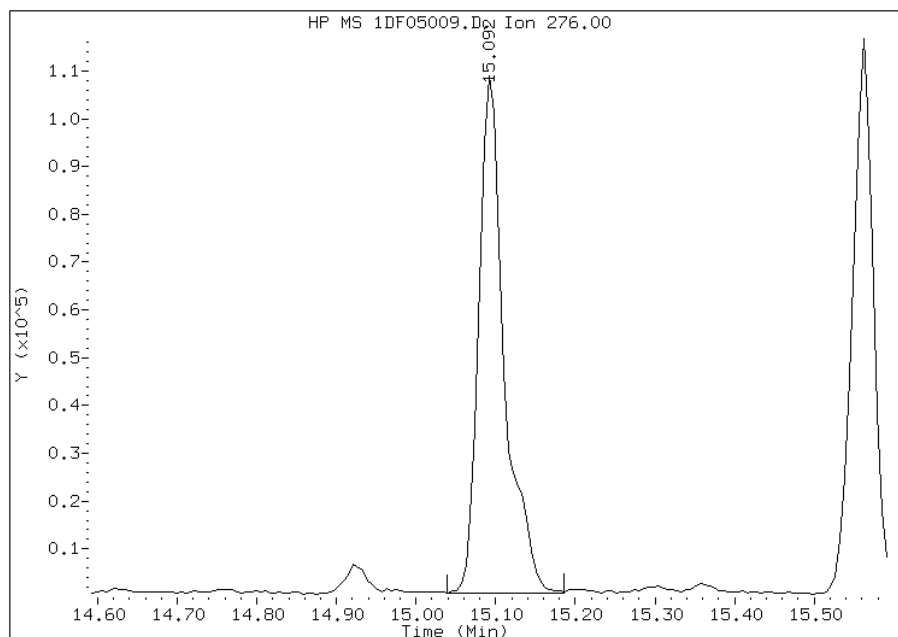


Manual Integration Report

Data File: 1DF05009.D
Inj. Date and Time: 05-JUN-2013 14:10
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 06/05/2013

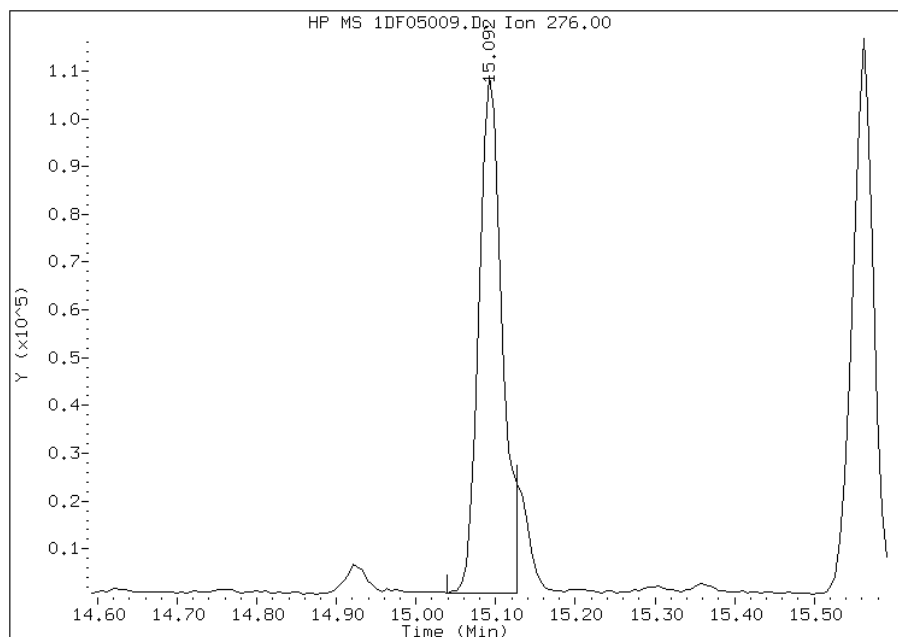
Processing Integration Results

RT: 15.09
Response: 239279
Amount: 4
Conc: 964



Manual Integration Results

RT: 15.09
Response: 220026
Amount: 3
Conc: 890



Manually Integrated By: cantins
Modification Date: 05-Jun-2013 16:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0992B-CS MS Lab Sample ID: 680-90686-7 MS
 Matrix: Solid Lab File ID: 1AE29033.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:25
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.12(g) Date Analyzed: 05/29/2013 22:15
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	671		660	130
208-96-8	Acenaphthylene	555		260	33
120-12-7	Anthracene	891		55	28
56-55-3	Benzo[a]anthracene	1960		53	26
50-32-8	Benzo[a]pyrene	1160		69	34
205-99-2	Benzo[b]fluoranthene	1700		80	40
191-24-2	Benzo[g,h,i]perylene	721		130	29
207-08-9	Benzo[k]fluoranthene	741		53	24
218-01-9	Chrysene	1900		59	30
53-70-3	Dibenz(a,h)anthracene	552		130	27
206-44-0	Fluoranthene	2110		130	26
86-73-7	Fluorene	632		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	663		130	47
90-12-0	1-Methylnaphthalene	734		260	29
91-57-6	2-Methylnaphthalene	935		260	47
91-20-3	Naphthalene	814		260	29
85-01-8	Phenanthrene	2100		53	26
129-00-0	Pyrene	2090		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	35		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29033.D
 Lab Smp Id: 680-90686-a-7-b ms
 Inj Date : 29-MAY-2013 22:15
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-90686-a-7-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\a-bFASTPAHi-m.m
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 30 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	15.120	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		2.521	2.512	(1.000)	935988	40.0000		
* 7 Acenaphthene-d10	164		3.541	3.533	(1.000)	609946	40.0000		
* 11 Phenanthrene-d10	188		4.492	4.478	(1.000)	911214	40.0000		
\$ 15 o-Terphenyl	230		4.781	4.772	(1.064)	11672	0.88563	234.2944	
* 19 Chrysene-d12	240		6.517	6.492	(1.000)	705724	40.0000		
* 24 Perylene-d12	264		7.607	7.571	(1.000)	695547	40.0000		
2 Naphthalene	128		2.526	2.518	(1.002)	39267	1.85293	490.1937	
3 2-Methylnaphthalene	141		2.932	2.924	(1.163)	21473	2.12812	562.9939	
4 1-Methylnaphthalene	142		2.986	2.977	(1.184)	24625	1.67085	442.0235	
5 1,1'-Biphenyl	154		3.210	3.207	(1.273)	1597	0.09701	25.6629(R)	
6 Acenaphthylene	152		3.450	3.447	(0.974)	33748	1.26454	334.5342	
8 Acenaphthene	154		3.557	3.554	(1.005)	21780	1.52690	403.9411	
9 Dibenzofuran	168		3.664	3.655	(1.035)	29204	1.33729	353.7799	
10 Fluorene	166		3.873	3.864	(1.094)	23835	1.43939	380.7902	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
12 Phenanthrene	178	4.503	4.494	(1.002)	98289	4.78940	1267.0379(R)
13 Anthracene	178	4.535	4.526	(1.010)	43555	2.02873	536.7012
16 Fluoranthene	202	5.368	5.354	(1.195)	122976	4.79940	1269.6825(R)
17 Pyrene	202	5.534	5.515	(0.849)	101219	4.75975	1259.1920(R)
18 Benzo(a)anthracene	228	6.512	6.481	(0.999)	88981	4.46055	1180.0390(R)
20 Chrysene	228	6.528	6.508	(1.002)	81407	4.32111	1143.1498(R)
21 Benzo(b)fluoranthene	252	7.324	7.299	(0.963)	77170	3.87578	1025.3384(RM)
22 Benzo(k)fluoranthene	252	7.334	7.320	(0.964)	39066	1.68815	446.6003(M)
23 Benzo(a)pyrene	252	7.548	7.523	(0.992)	44963	2.65003	701.0671
25 Indeno(1,2,3-cd)pyrene	276	8.349	8.314	(1.098)	23460	1.51026	399.5400(M)
26 Dibenzo(a,h)anthracene	278	8.365	8.341	(1.100)	18858	1.25669	332.4580(M)
27 Benzo(g,h,i)perylene	276	8.558	8.522	(1.125)	24493	1.64113	434.1605

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE29033.D

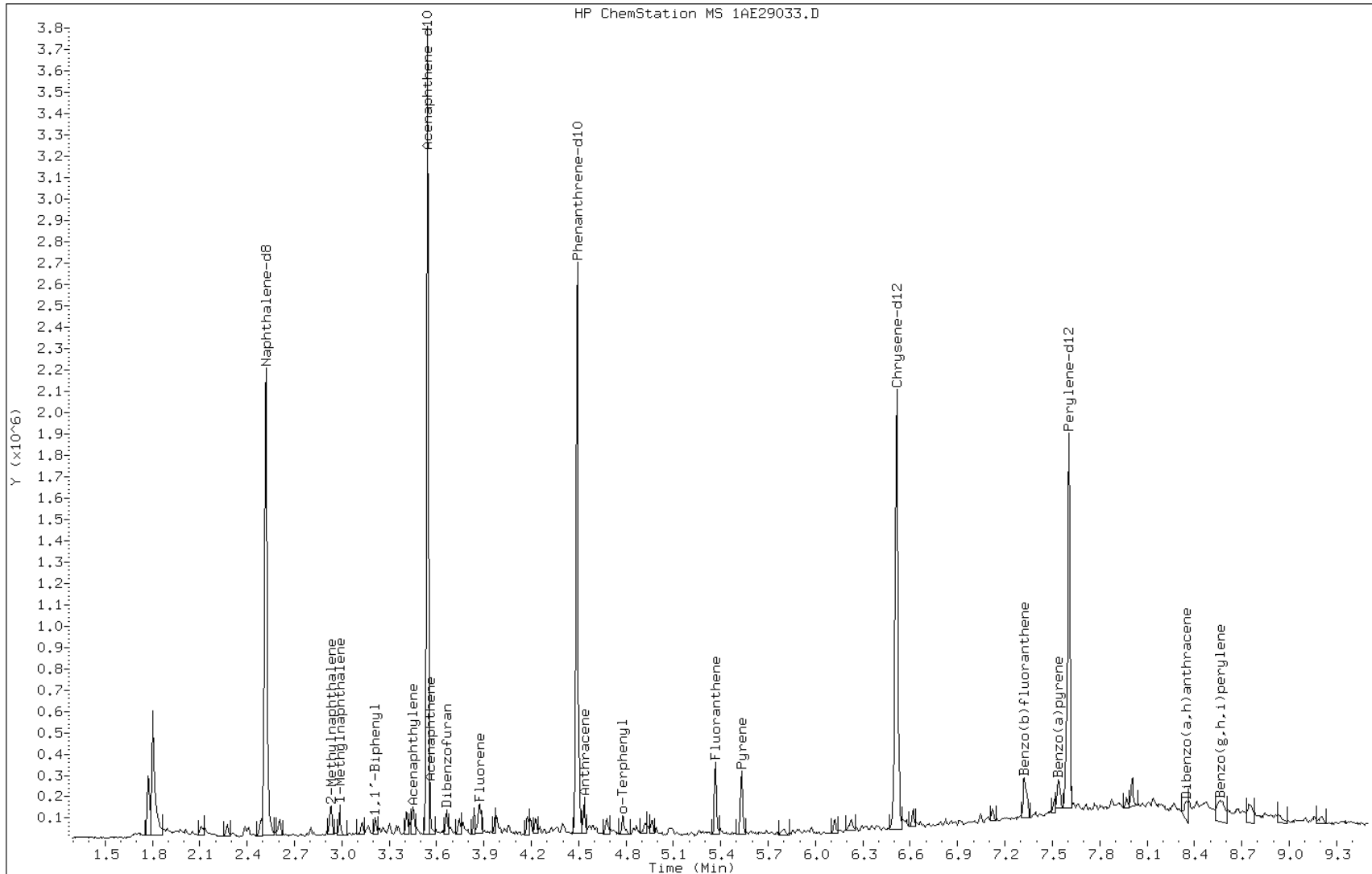
Date: 29-MAY-2013 22:15

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-b ms

Operator: SCC

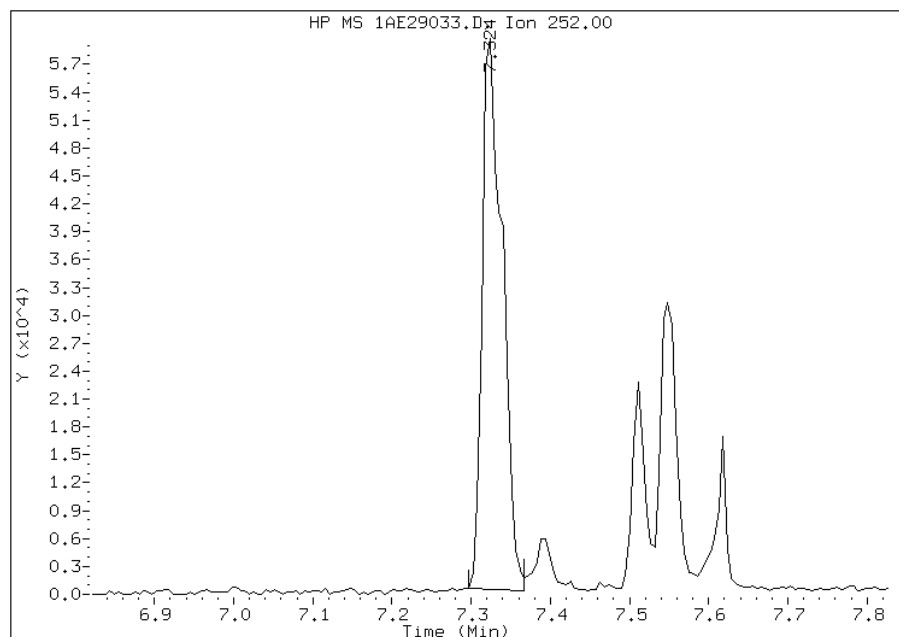


Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/30/2013

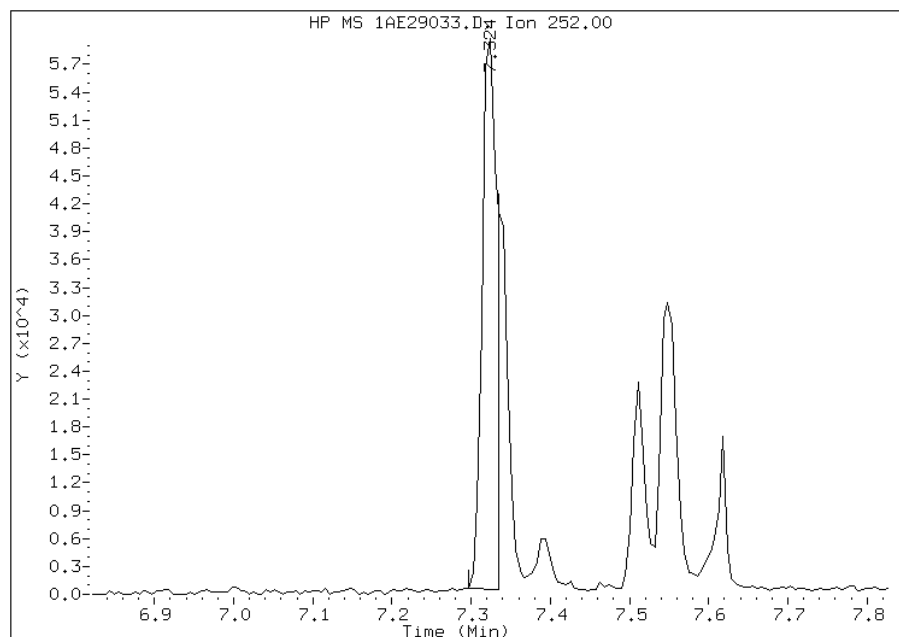
Processing Integration Results

RT: 7.32
Response: 103592
Amount: 5
Conc: 1359



Manual Integration Results

RT: 7.32
Response: 77170
Amount: 4
Conc: 1025



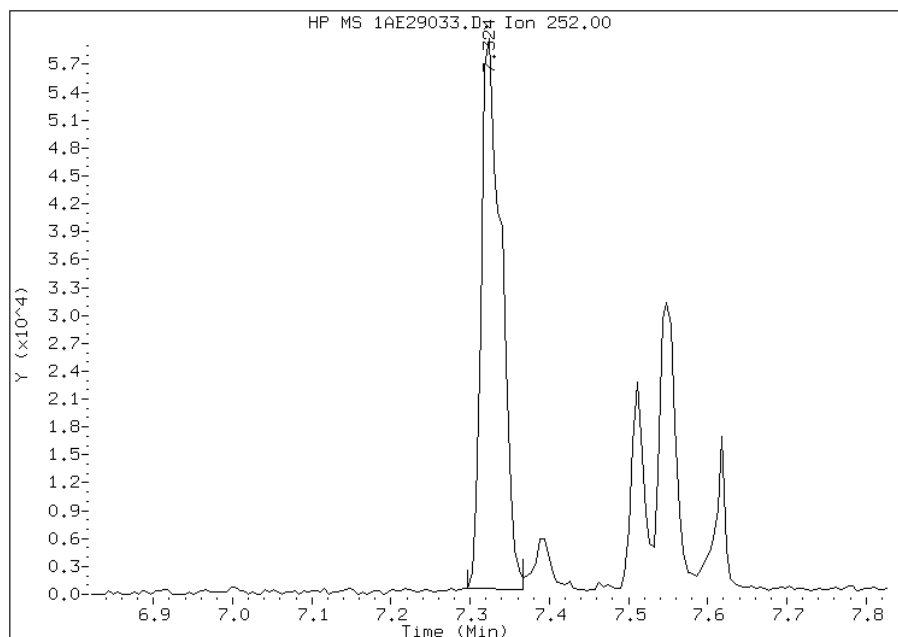
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

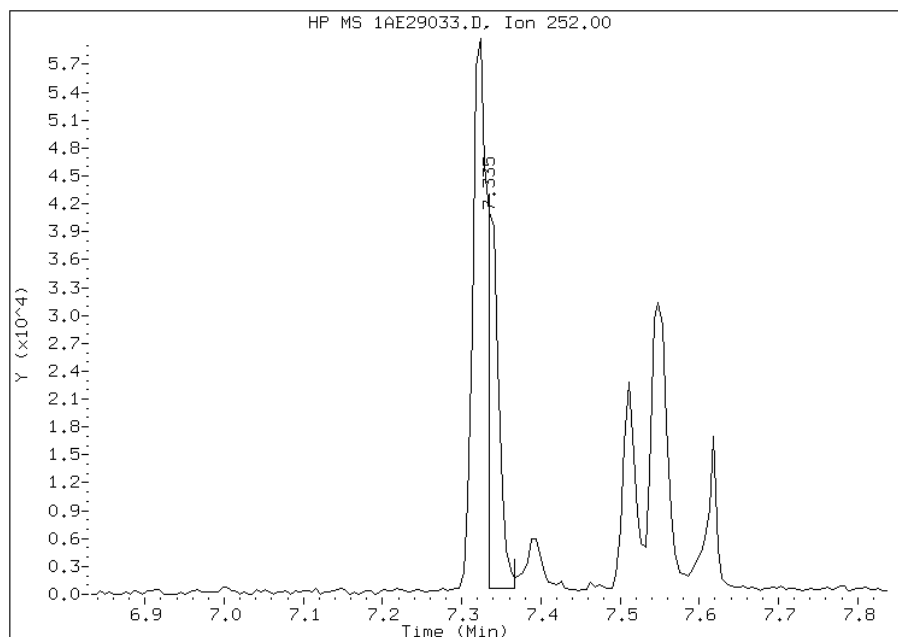
Processing Integration Results

RT: 7.32
Response: 103374
Amount: 4
Conc: 1182



Manual Integration Results

RT: 7.33
Response: 39066
Amount: 2
Conc: 447



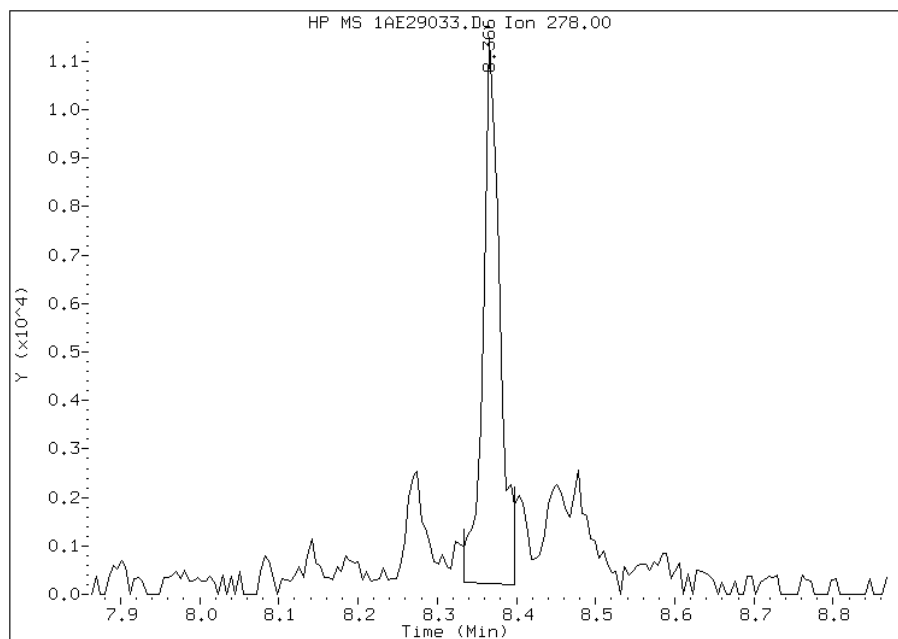
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/30/2013

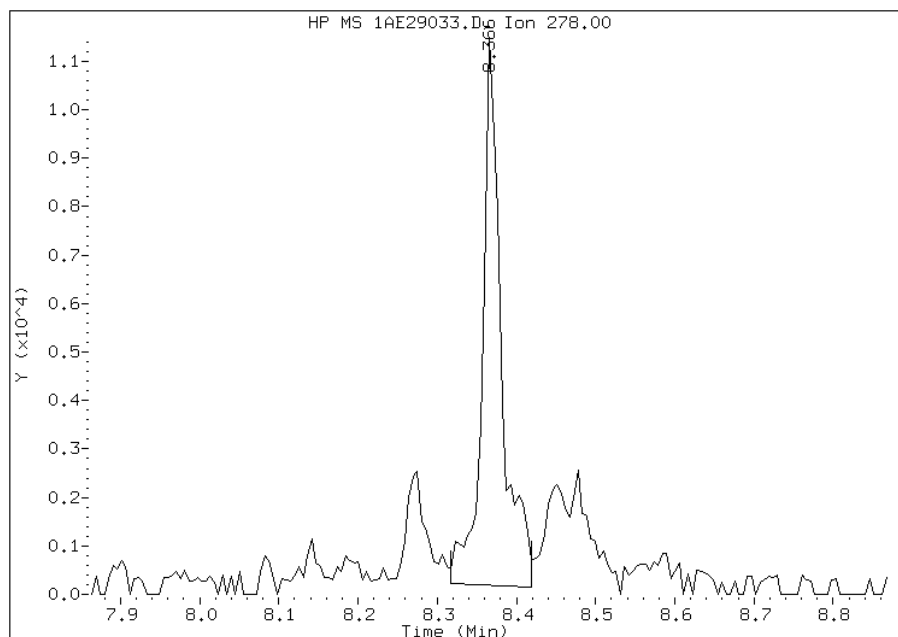
Processing Integration Results

RT: 8.37
Response: 16460
Amount: 1
Conc: 295



Manual Integration Results

RT: 8.37
Response: 18858
Amount: 1
Conc: 332



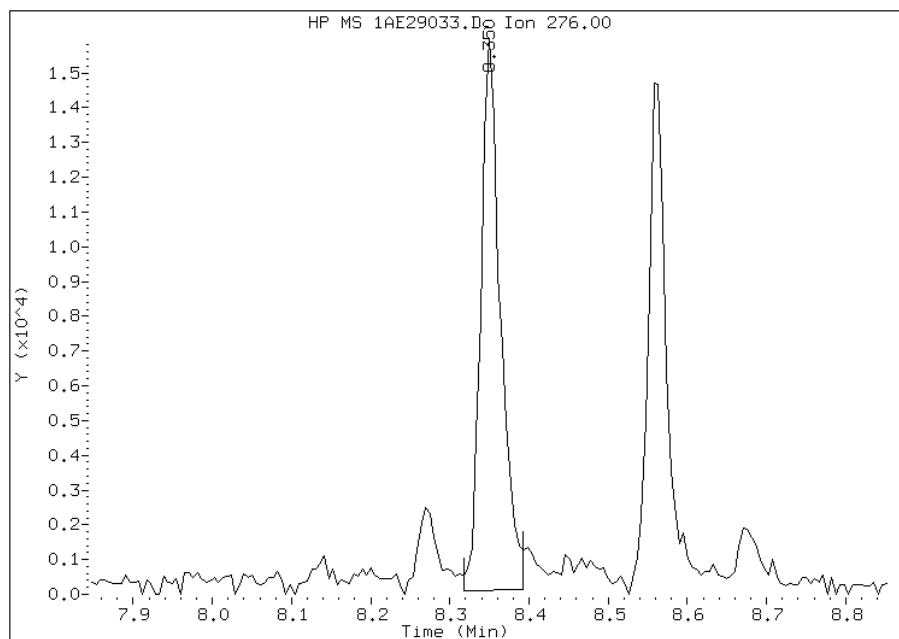
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29033.D
Inj. Date and Time: 29-MAY-2013 22:15
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

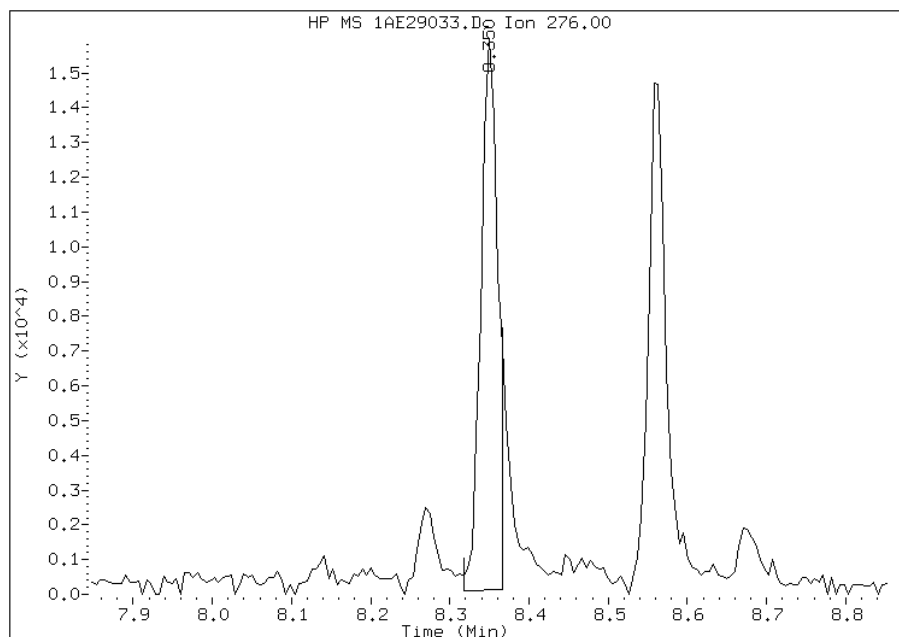
Processing Integration Results

RT: 8.35
Response: 27344
Amount: 2
Conc: 459



Manual Integration Results

RT: 8.35
Response: 23460
Amount: 2
Conc: 400



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: _____ Lab Sample ID: 680-90686-A-22-C MSD
 Matrix: Solid Lab File ID: 1DF05010.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 05/31/2013 10:03
 Sample wt/vol: 15.05(g) Date Analyzed: 06/05/2013 14:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 138106 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	724		490	98
208-96-8	Acenaphthylene	804		200	25
120-12-7	Anthracene	844		41	21
56-55-3	Benzo[a]anthracene	1030		39	19
50-32-8	Benzo[a]pyrene	960		51	26
205-99-2	Benzo[b]fluoranthene	1210		60	30
191-24-2	Benzo[g,h,i]perylene	1090		98	22
207-08-9	Benzo[k]fluoranthene	856		39	18
218-01-9	Chrysene	1100		44	22
53-70-3	Dibenz(a,h)anthracene	866		98	20
206-44-0	Fluoranthene	1240		98	20
86-73-7	Fluorene	786		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	1020		98	35
90-12-0	1-Methylnaphthalene	795		200	22
91-57-6	2-Methylnaphthalene	869		200	35
91-20-3	Naphthalene	801		200	22
85-01-8	Phenanthrene	1160		39	19
129-00-0	Pyrene	1270		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatiles 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\1DF05010.D
 Lab Smp Id: 680-90686-a-22-c ms
 Inj Date : 05-JUN-2013 14:32
 Operator : SCC Inst ID: BSMSD.i
 Smp Info : 680-90686-a-22-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D060513.b\dFASTPAHi.m
 Meth Date : 05-Jun-2013 12:13 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 15:19 Cal File: 1DE23009.D
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	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 (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		6.266	6.265	(1.000)	3212164	40.0000	
* 7 Acenaphthene-d10	164		7.935	7.934	(1.000)	1707182	40.0000	
* 11 Phenanthrene-d10	188		9.192	9.191	(1.000)	2698420	40.0000	
\$ 15 o-Terphenyl	230		9.504	9.503	(1.034)	83811	2.12005	560
* 19 Chrysene-d12	240		11.554	11.553	(1.000)	2340363	40.0000	
* 24 Perylene-d12	264		13.458	13.457	(1.000)	2673967	40.0000	
2 Naphthalene	128		6.284	6.289	(1.003)	193638	2.44450	650
3 2-Methylnaphthalene	142		6.983	6.988	(1.114)	133830	2.65343	700
4 1-Methylnaphthalene	142		7.077	7.076	(1.129)	125954	2.42574	640
5 1,1'-Biphenyl	154		7.424	7.423	(0.936)	6892	0.11949	32(R)
6 Acenaphthylene	152		7.806	7.811	(0.984)	173756	2.45480	650
8 Acenaphthene	154		7.959	7.963	(1.003)	99215	2.20958	590
9 Dibenzofuran	168		8.111	8.110	(1.022)	155877	2.51766	670
10 Fluorene	166		8.405	8.404	(1.059)	121971	2.40076	640

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Phenanthrene	178	9.210	9.215	(1.002)	258160	3.53247	940(R)
13 Anthracene	178	9.251	9.256	(1.006)	182683	2.57627	680
16 Fluoranthene	202	10.191	10.196	(1.109)	283853	3.79657	1000(R)
17 Pyrene	202	10.379	10.384	(0.898)	266631	3.89127	1000(R)
18 Benzo(a)anthracene	228	11.537	11.542	(0.998)	218867	3.15112	840
20 Chrysene	228	11.578	11.583	(1.002)	209736	3.35338	890(R)
21 Benzo(b)fluoranthene	252	12.888	12.893	(0.958)	247356	3.69250	980(R)
22 Benzo(k)fluoranthene	252	12.929	12.934	(0.961)	183368	2.61392	690
23 Benzo(a)pyrene	252	13.352	13.363	(0.992)	187877	2.93142	780
25 Indeno(1,2,3-cd)pyrene	276	15.091	15.102	(1.121)	206902	3.12488	830
26 Dibenzo(a,h)anthracene	278	15.133	15.137	(1.124)	164414	2.64466	700
27 Benzo(g,h,i)perylene	276	15.561	15.572	(1.156)	201693	3.32190	880(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: 1DF05010.D

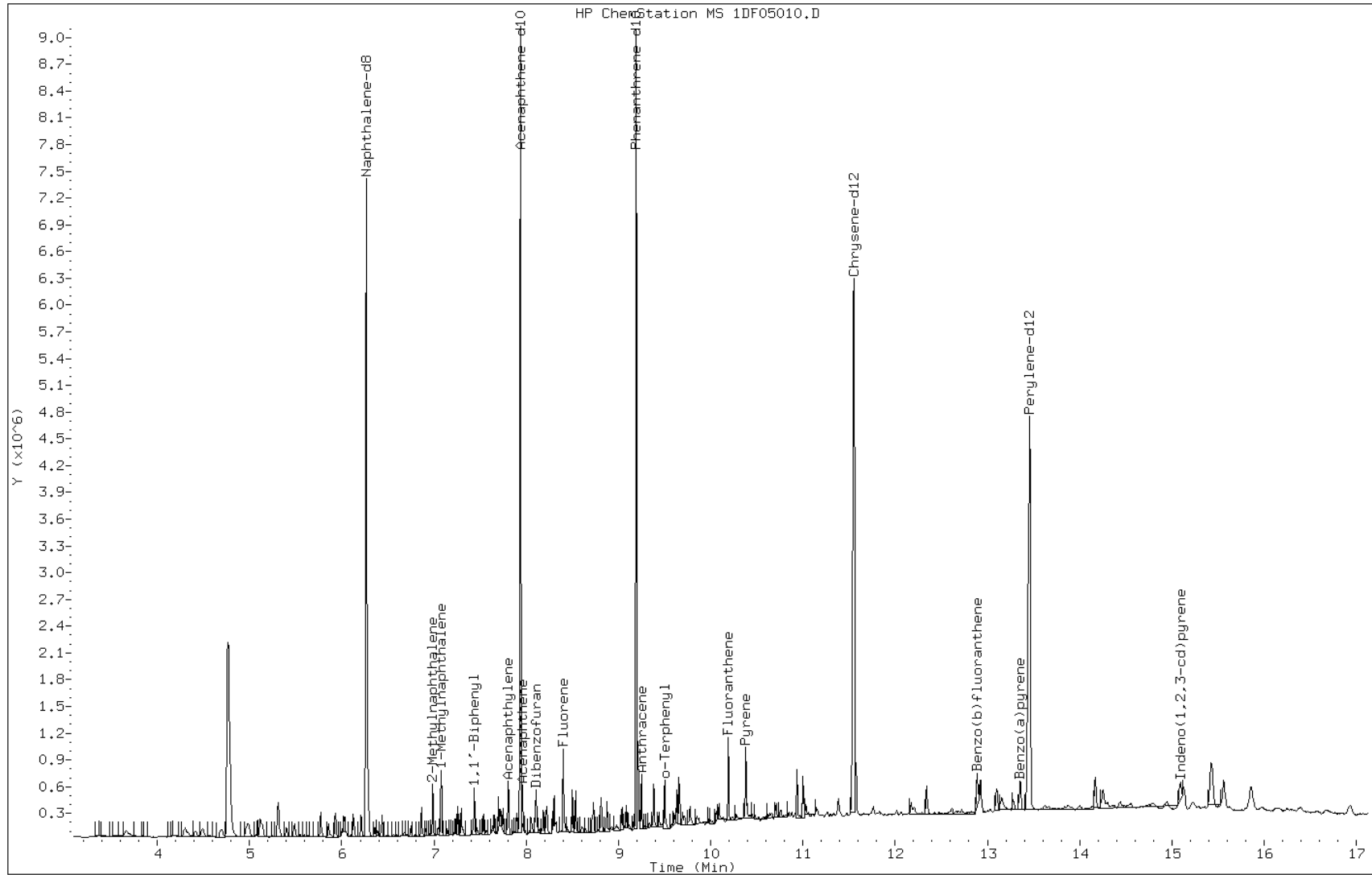
Date: 05-JUN-2013 14:32

Client ID:

Instrument: BSMSD.i

Sample Info: 680-90686-a-22-c msd

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1
 SDG No.: 68090686-1
 Client Sample ID: CV0992B-CS MSD Lab Sample ID: 680-90686-7 MSD
 Matrix: Solid Lab File ID: 1AE29034.D
 Analysis Method: 8270C LL Date Collected: 05/22/2013 10:25
 Extract. Method: 3546 Date Extracted: 05/29/2013 06:31
 Sample wt/vol: 15.12(g) Date Analyzed: 05/29/2013 22:30
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137876 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	521	J	660	130
208-96-8	Acenaphthylene	447		260	33
120-12-7	Anthracene	772		55	28
56-55-3	Benzo[a]anthracene	1490		53	26
50-32-8	Benzo[a]pyrene	864		69	34
205-99-2	Benzo[b]fluoranthene	1140		80	40
191-24-2	Benzo[g,h,i]perylene	477		130	29
207-08-9	Benzo[k]fluoranthene	708		53	24
218-01-9	Chrysene	1190		59	30
53-70-3	Dibenz(a,h)anthracene	375		130	27
206-44-0	Fluoranthene	1760		130	26
86-73-7	Fluorene	530		130	27
193-39-5	Indeno[1,2,3-cd]pyrene	504		130	47
90-12-0	1-Methylnaphthalene	688		260	29
91-57-6	2-Methylnaphthalene	873		260	47
91-20-3	Naphthalene	767		260	29
85-01-8	Phenanthrene	1760		53	26
129-00-0	Pyrene	1520		130	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	31		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29034.D
 Lab Smp Id: 680-90686-a-7-c msd
 Inj Date : 29-MAY-2013 22:30
 Operator : SCC
 Smp Info : 680-90686-a-7-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A052913.b\1AE29034.D
 Meth Date : 29-May-2013 15:30 cantins Quant Type: ISTD
 Cal Date : 23-MAY-2013 14:22 Cal File: 1AE23009.D
 Als bottle: 31 QC Sample: MSD
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	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		2.516	2.512	(1.000)	925757	40.0000		
* 7 Acenaphthene-d10	164		3.542	3.533	(1.000)	586300	40.0000		
* 11 Phenanthrene-d10	188		4.493	4.478	(1.000)	905288	40.0000		
\$ 15 o-Terphenyl	230		4.781	4.772	(1.064)	10109	0.77206	204.2483	
* 19 Chrysene-d12	240		6.512	6.492	(1.000)	762174	40.0000		
* 24 Perylene-d12	264		7.607	7.571	(1.000)	814583	40.0000		
2 Naphthalene	128		2.527	2.518	(1.004)	36606	1.74645	462.0250	
3 2-Methylnaphthalene	141		2.933	2.924	(1.166)	19840	1.98801	525.9276	
4 1-Methylnaphthalene	142		2.986	2.977	(1.187)	22831	1.56624	414.3500	
5 1,1'-Biphenyl	154		3.210	3.207	(1.276)	1426	0.08758	23.1683(R)	
6 Acenaphthylene	152		3.451	3.447	(0.974)	26118	1.01811	269.3419	
8 Acenaphthene	154		3.558	3.554	(1.005)	16264	1.18618	313.8044	
9 Dibenzofuran	168		3.664	3.655	(1.035)	25317	1.20605	319.0616	
10 Fluorene	166		3.867	3.864	(1.092)	19198	1.20612	319.0789	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
12 Phenanthrene	178	4.503	4.494	(1.002)	81501	3.99736	1057.5021(R)
13 Anthracene	178	4.535	4.526	(1.010)	37502	1.75822	465.1388
16 Fluoranthene	202	5.363	5.354	(1.194)	102120	4.01154	1061.2537(R)
17 Pyrene	202	5.529	5.515	(0.849)	79534	3.46302	916.1435(R)
18 Benzo(a)anthracene	228	6.506	6.481	(0.999)	73340	3.39317	897.6650(R)
20 Chrysene	228	6.528	6.508	(1.002)	55070	2.70663	716.0399
21 Benzo(b)fluoranthene	252	7.324	7.299	(0.963)	58750	2.58693	684.3730(M)
22 Benzo(k)fluoranthene	252	7.329	7.320	(0.963)	43664	1.61112	426.2209(M)
23 Benzo(a)pyrene	252	7.548	7.523	(0.992)	39102	1.96782	520.5883
25 Indeno(1,2,3-cd)pyrene	276	8.350	8.314	(1.098)	20204	1.14820	303.7559(M)
26 Dibenzo(a,h)anthracene	278	8.366	8.341	(1.100)	14154	0.85362	225.8259
27 Benzo(g,h,i)perylene	276	8.558	8.522	(1.125)	18999	1.08698	287.5612

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE29034.D

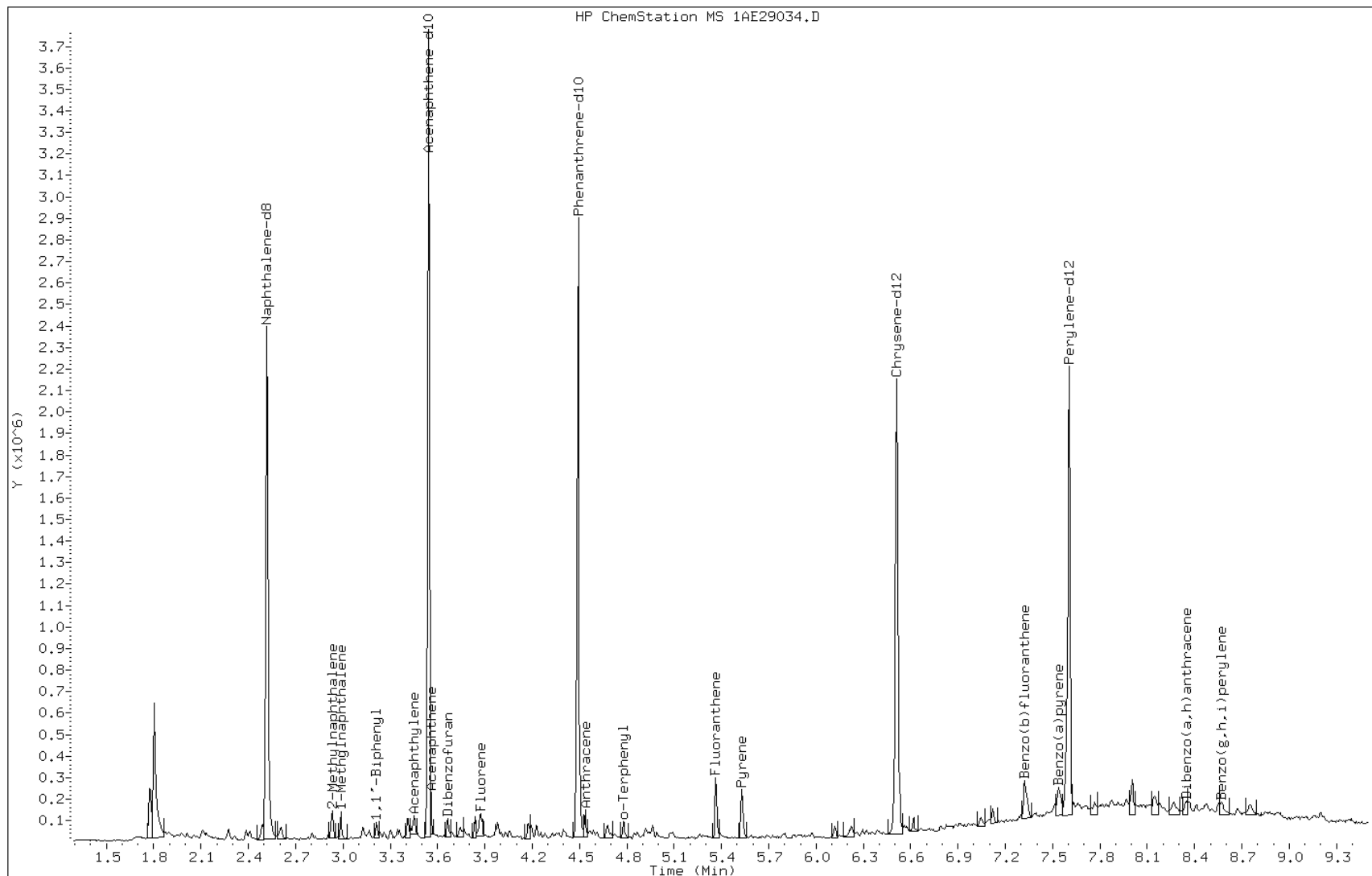
Date: 29-MAY-2013 22:30

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-90686-a-7-c msd

Operator: SCC

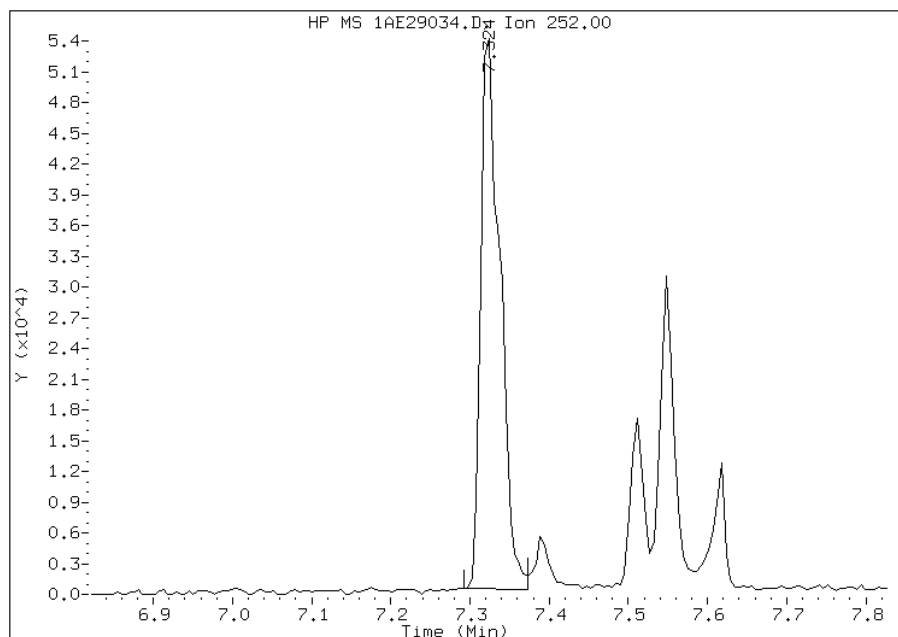


Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/30/2013

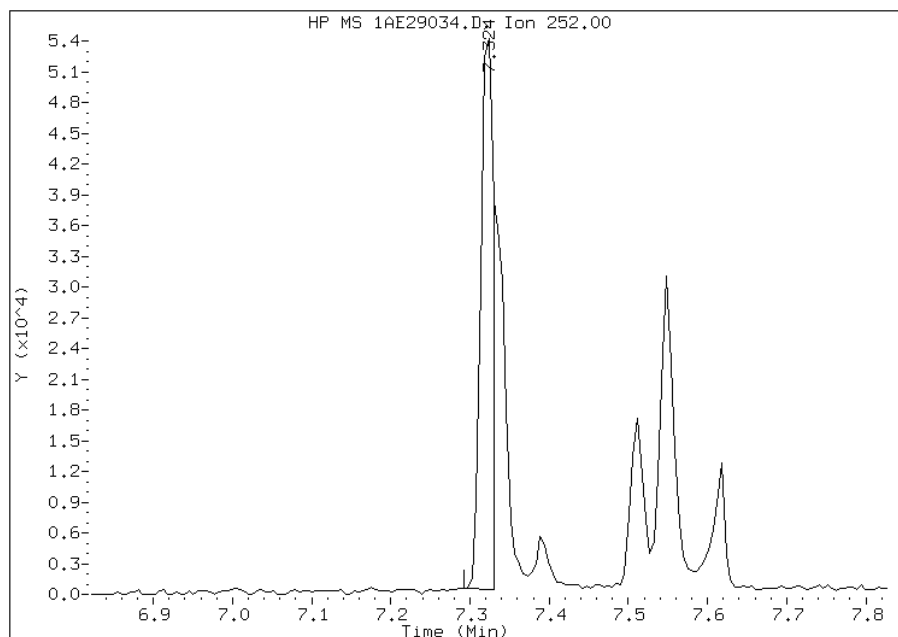
Processing Integration Results

RT: 7.32
Response: 90174
Amount: 4
Conc: 1023



Manual Integration Results

RT: 7.32
Response: 58750
Amount: 3
Conc: 684



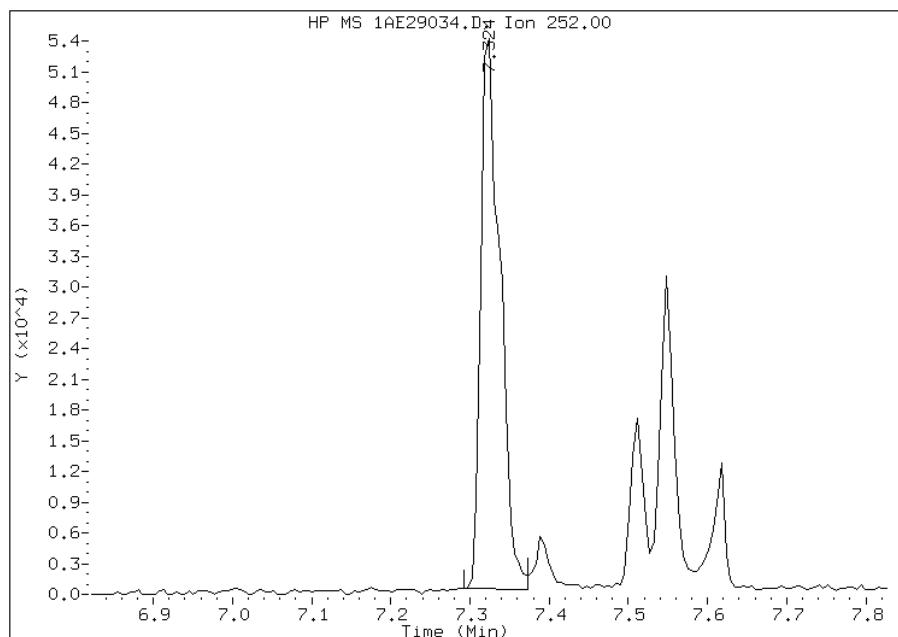
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/30/2013

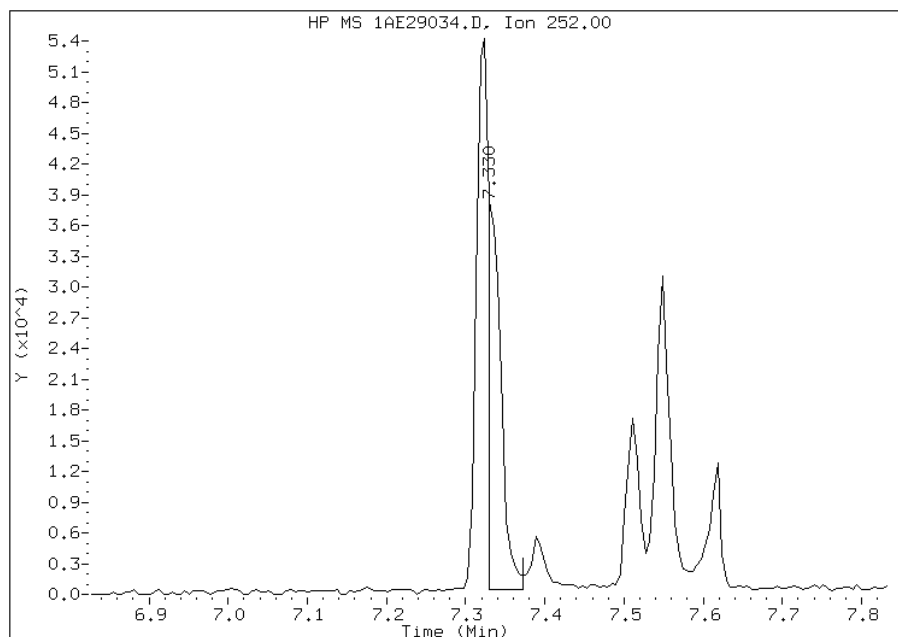
Processing Integration Results

RT: 7.32
Response: 90174
Amount: 3
Conc: 880



Manual Integration Results

RT: 7.33
Response: 43664
Amount: 2
Conc: 426



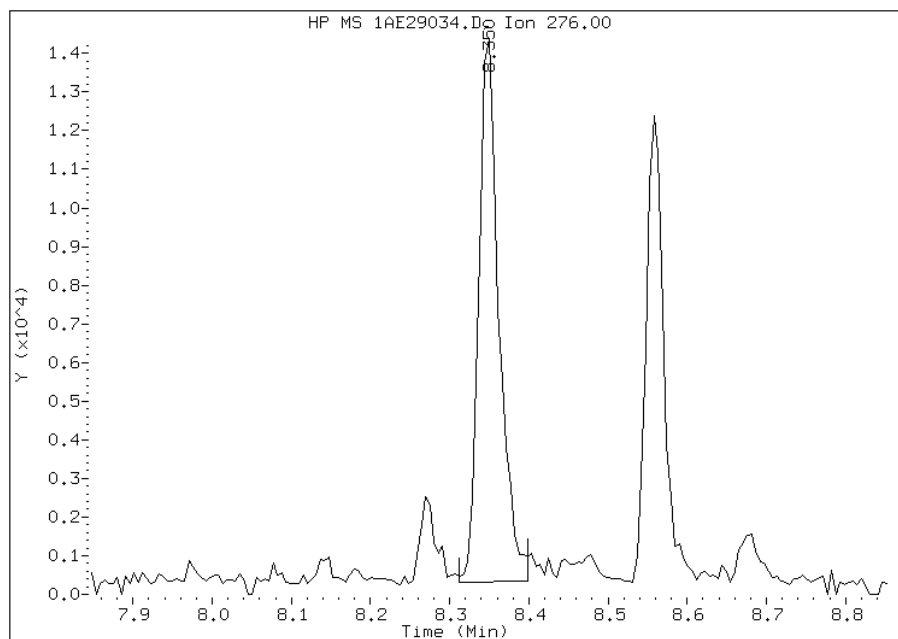
Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE29034.D
Inj. Date and Time: 29-MAY-2013 22:30
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/30/2013

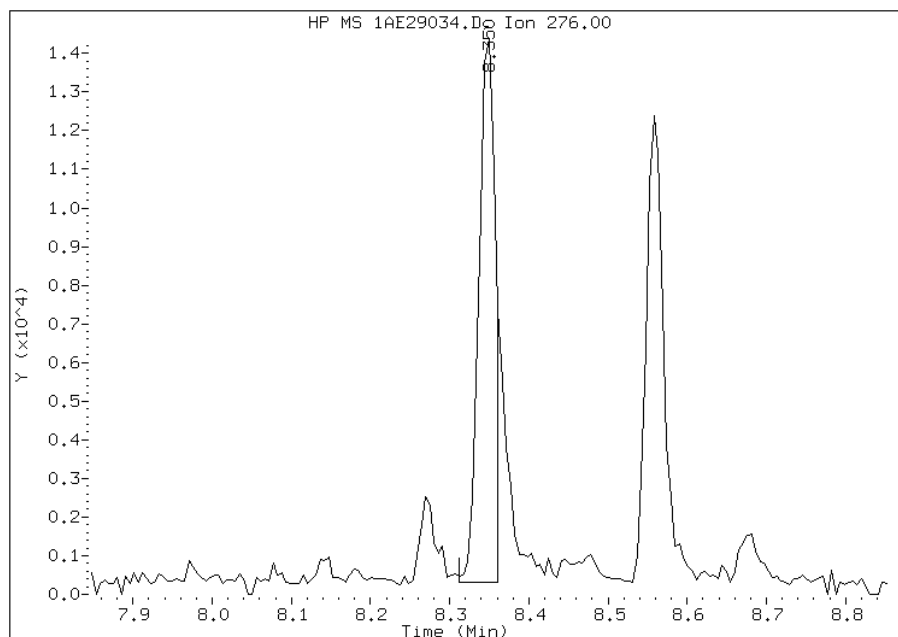
Processing Integration Results

RT: 8.35
Response: 24801
Amount: 1
Conc: 364



Manual Integration Results

RT: 8.35
Response: 20204
Amount: 1
Conc: 304



Manually Integrated By: cantins
Modification Date: 30-May-2013 15:50
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973 Start Date: 05/23/2013 11:11Analysis Batch Number: 137743 End Date: 05/23/2013 17:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 11:11	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 11:26	1		DB-5MS 250 (um)
DFTPP 660-137743/2		05/23/2013 11:41	1	1AE23002.D	DB-5MS 250 (um)
IC 660-137743/3		05/23/2013 12:51	1	1AE23003.D	DB-5MS 250 (um)
IC 660-137743/4		05/23/2013 13:06	1	1AE23004.D	DB-5MS 250 (um)
IC 660-137743/5		05/23/2013 13:21	1	1AE23005.D	DB-5MS 250 (um)
IC 660-137743/6		05/23/2013 13:36	1	1AE23006.D	DB-5MS 250 (um)
ICIS 660-137743/7		05/23/2013 13:52	1	1AE23007.D	DB-5MS 250 (um)
IC 660-137743/8		05/23/2013 14:07	1	1AE23008.D	DB-5MS 250 (um)
IC 660-137743/9		05/23/2013 14:22	1	1AE23009.D	DB-5MS 250 (um)
ICV 660-137743/10		05/23/2013 14:37	1	1AE23010.D	DB-5MS 250 (um)
ZZZZZ		05/23/2013 15:40	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 15:57	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 16:13	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 16:29	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 16:44	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 16:58	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:13	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:28	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:44	4		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:59	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMA5973Start Date: 05/29/2013 11:45Analysis Batch Number: 137876End Date: 05/29/2013 22:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/29/2013 11:45	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 11:59	1		DB-5MS 250 (um)
DFTPP 660-137876/2		05/29/2013 12:14	1		DB-5MS 250 (um)
CCVIS 660-137876/3		05/29/2013 12:33	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 14:16	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 14:50	1		DB-5MS 250 (um)
DFTPP 660-137876/6		05/29/2013 15:05	1	1AE29005.D	DB-5MS 250 (um)
CCVIS 660-137876/7		05/29/2013 15:18	1	1AE29006.D	DB-5MS 250 (um)
ZZZZZ		05/29/2013 15:34	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 15:49	1		DB-5MS 250 (um)
MB 660-137845/1-A		05/29/2013 16:04	1	1AE29009.D	DB-5MS 250 (um)
ZZZZZ		05/29/2013 16:20	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 16:35	1		DB-5MS 250 (um)
LCS 660-137845/2-A		05/29/2013 16:58	1	1AE29012.D	DB-5MS 250 (um)
ZZZZZ		05/29/2013 17:13	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 17:44	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 17:59	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 18:14	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 18:29	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 18:44	4		DB-5MS 250 (um)
ZZZZZ		05/29/2013 18:59	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 19:14	1		DB-5MS 250 (um)
ZZZZZ		05/29/2013 19:30	4		DB-5MS 250 (um)
ZZZZZ		05/29/2013 19:45	4		DB-5MS 250 (um)
ZZZZZ		05/29/2013 19:59	4		DB-5MS 250 (um)
ZZZZZ		05/29/2013 20:14	4		DB-5MS 250 (um)
680-90686-1	CV0986A-CS	05/29/2013 20:30	4	1AE29026.D	DB-5MS 250 (um)
680-90686-2	CV0986A-CSD	05/29/2013 20:44	4	1AE29027.D	DB-5MS 250 (um)
680-90686-3	CV0986B-CS	05/29/2013 21:00	4	1AE29028.D	DB-5MS 250 (um)
680-90686-4	CV0991A-CS	05/29/2013 21:15	4	1AE29029.D	DB-5MS 250 (um)
680-90686-5	CV0991B-CS	05/29/2013 21:30	4	1AE29030.D	DB-5MS 250 (um)
680-90686-6	CV0992A-CS	05/29/2013 21:45	4	1AE29031.D	DB-5MS 250 (um)
680-90686-7	CV0992B-CS	05/29/2013 22:00	4	1AE29032.D	DB-5MS 250 (um)
680-90686-7 MS	CV0992B-CS MS	05/29/2013 22:15	4	1AE29033.D	DB-5MS 250 (um)
680-90686-7 MSD	CV0992B-CS MSD	05/29/2013 22:30	4	1AE29034.D	DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMD5973Start Date: 05/23/2013 10:28Analysis Batch Number: 137830End Date: 05/23/2013 23:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/23/2013 10:28	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 10:50	1		DB-5MS 250 (um)
DFTPP 660-137830/2		05/23/2013 11:20	1	1DE23002.D	DB-5MS 250 (um)
IC 660-137830/3		05/23/2013 13:03	1	1DE23003.D	DB-5MS 250 (um)
IC 660-137830/4		05/23/2013 13:26	1	1DE23004.D	DB-5MS 250 (um)
IC 660-137830/5		05/23/2013 13:48	1	1DE23005.D	DB-5MS 250 (um)
IC 660-137830/6		05/23/2013 14:11	1	1DE23006.D	DB-5MS 250 (um)
ICIS 660-137830/7		05/23/2013 14:33	1	1DE23007.D	DB-5MS 250 (um)
IC 660-137830/8		05/23/2013 14:56	1	1DE23008.D	DB-5MS 250 (um)
IC 660-137830/9		05/23/2013 15:19	1	1DE23009.D	DB-5MS 250 (um)
ICV 660-137830/10		05/23/2013 15:41	1	1DE23010.D	DB-5MS 250 (um)
CCVIS 660-137830/12		05/23/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 17:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:26	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:11	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 19:56	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 20:41	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:04	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:27	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 21:49	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:12	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:34	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 22:57	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		05/23/2013 23:42	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-90686-1SDG No.: 68090686-1Instrument ID: BSMD5973Start Date: 06/05/2013 10:50Analysis Batch Number: 138106End Date: 06/05/2013 21:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/05/2013 10:50	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 11:13	1		DB-5MS 250 (um)
DFTPP 660-138106/2		06/05/2013 11:38	1	1DF05002.D	DB-5MS 250 (um)
CCVIS 660-138106/3		06/05/2013 11:54	1	1DF05003.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:17	1		DB-5MS 250 (um)
ZZZZZ		06/05/2013 12:39	4		DB-5MS 250 (um)
MB 660-137947/1-A		06/05/2013 13:02	1	1DF05006.D	DB-5MS 250 (um)
LCS 660-137947/2-A		06/05/2013 13:24	1	1DF05007.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 13:47	4		DB-5MS 250 (um)
680-90686-A-22-B MS		06/05/2013 14:10	4	1DF05009.D	DB-5MS 250 (um)
680-90686-A-22-C MSD		06/05/2013 14:32	4	1DF05010.D	DB-5MS 250 (um)
ZZZZZ		06/05/2013 14:55	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:17	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:02	4		DB-5MS 250 (um)
ZZZZZ		06/05/2013 16:25	4		DB-5MS 250 (um)
680-90686-8	CV1034A-CS	06/05/2013 16:48	4	1DF05016.D	DB-5MS 250 (um)
680-90686-9	CV1034A-CSD	06/05/2013 17:10	4	1DF05017.D	DB-5MS 250 (um)
680-90686-10	CV1073A-CS	06/05/2013 17:33	1	1DF05018.D	DB-5MS 250 (um)
680-90686-11	CV1073B-CS	06/05/2013 17:55	4	1DF05019.D	DB-5MS 250 (um)
680-90686-12	CV0543A-CS-SP	06/05/2013 18:18	4	1DF05020.D	DB-5MS 250 (um)
680-90686-13	CV0543B-CS-SP	06/05/2013 18:41	4	1DF05021.D	DB-5MS 250 (um)
680-90686-14	CV0543C-CS-SP	06/05/2013 19:03	4	1DF05022.D	DB-5MS 250 (um)
680-90686-15	HP0036A-CS-SP	06/05/2013 19:26	1	1DF05023.D	DB-5MS 250 (um)
680-90686-16	HP0036B-CS-SP	06/05/2013 19:48	4	1DF05024.D	DB-5MS 250 (um)
680-90686-17	HP0036C-CS-SP	06/05/2013 20:11	4	1DF05025.D	DB-5MS 250 (um)
680-90686-18	CV0990A-CS	06/05/2013 20:33	4	1DF05026.D	DB-5MS 250 (um)
680-90686-19	CV0990B-CS	06/05/2013 20:56	4	1DF05027.D	DB-5MS 250 (um)
680-90686-20	CV0990C-CS	06/05/2013 21:19	4	1DF05028.D	DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Batch Number: 137845 Batch Start Date: 05/29/13 06:31 Batch Analyst:Batch Method: 3546 Batch End Date: 05/29/13 14:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182
MB 660-137845/1		3546, 8270C LL		15.29 g	1 mL		1 mL
LCS 660-137845/2		3546, 8270C LL		15.38 g	1 mL	1 mL	1 mL
680-90686-A-1	CV0986A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL
680-90686-A-2	CV0986A-CSD	3546, 8270C LL	T	15.20 g	1 mL		1 mL
680-90686-A-3	CV0986B-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL
680-90686-A-4	CV0991A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-90686-A-5	CV0991B-CS	3546, 8270C LL	T	15.40 g	1 mL		1 mL
680-90686-A-6	CV0992A-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL
680-90686-A-7	CV0992B-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL
680-90686-A-7 MS	CV0992B-CS	3546, 8270C LL	T	15.12 g	1 mL	1 mL	1 mL
680-90686-A-7 MSD	CV0992B-CS	3546, 8270C LL	T	15.12 g	1 mL	1 mL	1 mL

Batch Notes

Acetone Lot #	EX ACETON BOT _53
Balance ID	BO01
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCl2 Lot #	EX MC CYCL _56
MeCl2/Acetone Lot #	EX DCM/ACETON _82
Microwave Start Time	8.50/5/29/13
Microwave Stop Time	9.25/5/29/13
Na2SO4 Lot Number	EX NA2S04 A_67
Ottawa Sand Lot #	OTTAW SAND_19
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	ROBIN
Surrogate Lot Number	EX LLSURINT _182
Water Bath ID	TURBOVAP2#1/2/3/
Water Bath Temperature	40 C

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 this reagent.

8270C LL

George, Abraham

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Batch Number: 137947 Batch Start Date: 05/31/13 10:03 Batch Analyst:Batch Method: 3546 Batch End Date: 06/03/13 11:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00022	EXLLSURINT 00182
MB 660-137947/1		3546, 8270C LL		15.01 g	1 mL		1 mL
LCS 660-137947/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL
680-90686-A-8	CV1034A-CS	3546, 8270C LL	T	15.98 g	1 mL		1 mL
680-90686-A-9	CV1034A-CSD	3546, 8270C LL	T	14.95 g	1 mL		1 mL
680-90686-A-10	CV1073A-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL
680-90686-A-11	CV1073B-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL
680-90686-A-12	CV0543A-CS-SP	3546, 8270C LL	T	15.40 g	1 mL		1 mL
680-90686-A-13	CV0543B-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL
680-90686-A-14	CV0543C-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL
680-90686-A-15	HP0036A-CS-SP	3546, 8270C LL	T	15.24 g	1 mL		1 mL
680-90686-A-16	HP0036B-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-90686-A-17	HP0036C-CS-SP	3546, 8270C LL	T	15.17 g	1 mL		1 mL
680-90686-A-18	CV0990A-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL
680-90686-A-19	CV0990B-CS	3546, 8270C LL	T	15.33 g	1 mL		1 mL
680-90686-A-20	CV0990C-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL
680-90686-A-22 MS		3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL
680-90686-A-22 MSD		3546, 8270C LL	T	15.05 g	1 mL	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 this reagent.

8270C LL

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1SDG No.: 68090686-1Batch Number: 137947 Batch Start Date: 05/31/13 10:03 Batch Analyst:Batch Method: 3546 Batch End Date: 06/03/13 11:20

Batch Notes	
Acetone Lot #	EX ACETON BOT _53
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _58
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _58
MeCl2/Acetone Lot #	DCM/ACETON _82
Microwave Start Time	13.15/5/31/13
Microwave Stop Time	13.50/5/31/13
Na2SO4 Lot Number	EX NA2S04 A_67
Ottawa Sand Lot #	OTTAWA SAND_19
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EX LLSURINT_182
Water Bath ID	TURBOVAP2#1/2/3/4
Water Bath Temperature	40 C

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 this reagent.

8270C LL

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-90686-1

SDG No.: 68090686-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0986A-CS	680-90686-1
CV0986A-CSD	680-90686-2
CV0986B-CS	680-90686-3
CV0991A-CS	680-90686-4
CV0991B-CS	680-90686-5
CV0992A-CS	680-90686-6
CV0992B-CS	680-90686-7
CV1034A-CS	680-90686-8
CV1034A-CSD	680-90686-9
CV1073A-CS	680-90686-10
CV1073B-CS	680-90686-11
CV0543A-CS-SP	680-90686-12
CV0543B-CS-SP	680-90686-13
CV0543C-CS-SP	680-90686-14
HP0036A-CS-SP	680-90686-15
HP0036B-CS-SP	680-90686-16
HP0036C-CS-SP	680-90686-17
CV0990A-CS	680-90686-18
CV0990B-CS	680-90686-19
CV0990C-CS	680-90686-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-90686-1
SDG Number: 68090686-1
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: 680-90686-1
SDG Number: 68090686-1
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.: 680-90686-1

SDG No.: 68090686-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/28/2013 10:54 End Date: 05/28/2013 10:54

Lab Sample ID	D / F	Type	Time	Analytes																	
				M	o	i	s	t													
680-90686-1	1	T	10:54	X																	
680-90686-2	1	T	10:54	X																	
680-90686-3	1	T	10:54	X																	
680-90686-4	1	T	10:54	X																	
680-90686-5	1	T	10:54	X																	
680-90686-6	1	T	10:54	X																	
680-90686-7	1	T	10:54	X																	
680-90686-7 MS	1	T	10:54	X																	
680-90686-7 MSD	1	T	10:54	X																	
680-90686-8	1	T	10:54	X																	
680-90686-9	1	T	10:54	X																	
680-90686-10	1	T	10:54	X																	
680-90686-11	1	T	10:54	X																	
680-90686-12	1	T	10:54	X																	
680-90686-13	1	T	10:54	X																	
680-90686-14	1	T	10:54	X																	
680-90686-15	1	T	10:54	X																	
680-90686-16	1	T	10:54	X																	
680-90686-17	1	T	10:54	X																	
680-90686-18	1	T	10:54	X																	
680-90686-19	1	T	10:54	X																	
680-90686-20	1	T	10:54	X																	
ZZZZZZ			10:54																		
ZZZZZZ			10:54																		
680-90686-A-22 MS	1	T	10:54	X																	
680-90686-A-22 MSD	1	T	10:54	X																	
ZZZZZZ			10:54																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-90686-1

SDG No.: 68090686-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/28/2013 10:54 End Date: 05/28/2013 10:54

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
zzzzzz			10:54																
zzzzzz			10:54																
zzzzzz			10:54																
zzzzzz			10:54																
zzzzzz			10:54																
zzzzzz			10:54																
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zzzzzz			10:54																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-90686-1

SDG No.: 68090686-1

Batch Number: 137827 Batch Start Date: 05/28/13 10:54 Batch Analyst:

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-90686-A-1	CV0986A-CS	Moisture	T	1	0 g	4.65 g	3.85 g
680-90686-A-2	CV0986A-CSD	Moisture	T	2	0 g	4.22 g	3.41 g
680-90686-A-3	CV0986B-CS	Moisture	T	3	0 g	4.50 g	3.59 g
680-90686-A-4	CV0991A-CS	Moisture	T	4	0 g	4.39 g	3.31 g
680-90686-A-5	CV0991B-CS	Moisture	T	5	0 g	5.12 g	4.18 g
680-90686-A-6	CV0992A-CS	Moisture	T	6	0 g	4.79 g	3.65 g
680-90686-A-7	CV0992B-CS	Moisture	T	7	0 g	5.23 g	3.15 g
680-90686-A-7 MS	CV0992B-CS	Moisture	T	7	0 g	5.23 g	3.15 g
680-90686-A-7 MSD	CV0992B-CS	Moisture	T	7	0 g	5.23 g	3.15 g
680-90686-A-8	CV1034A-CS	Moisture	T	8	0 g	4.39 g	3.74 g
680-90686-A-9	CV1034A-CSD	Moisture	T	9	0 g	4.84 g	4.17 g
680-90686-A-10	CV1073A-CS	Moisture	T	10	0 g	4.14 g	3.37 g
680-90686-A-11	CV1073B-CS	Moisture	T	11	0 g	4.45 g	3.46 g
680-90686-A-12	CV0543A-CS-SP	Moisture	T	12	0 g	4.71 g	3.02 g
680-90686-A-13	CV0543B-CS-SP	Moisture	T	13	0 g	4.72 g	3.45 g
680-90686-A-14	CV0543C-CS-SP	Moisture	T	14	0 g	4.40 g	2.96 g
680-90686-A-15	HP0036A-CS-SP	Moisture	T	15	0 g	4.59 g	3.83 g
680-90686-A-16	HP0036B-CS-SP	Moisture	T	16	0 g	4.87 g	3.93 g
680-90686-A-17	HP0036C-CS-SP	Moisture	T	17	0 g	4.51 g	3.37 g
680-90686-A-18	CV0990A-CS	Moisture	T	18	0 g	4.43 g	3.87 g
680-90686-A-19	CV0990B-CS	Moisture	T	19	0 g	4.38 g	3.22 g
680-90686-A-20	CV0990C-CS	Moisture	T	20	0 g	4.09 g	3.08 g
680-90686-A-22 MS		Moisture	T	22	0 g	4.56 g	3.70 g
680-90686-A-22 MSD		Moisture	T	22	0 g	4.56 g	3.70 g

Batch Notes

Balance ID	2 No Unit
Date samples were placed in the oven	5.28.13
Date samples were removed from oven	5.29.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

Moisture

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

680-90686

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test America Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 200548-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1 OF 3
---------------------------------------	----------------------------	--------------------------------	-------------	-------------------	-------------

TAL(LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE
---	-------------	--------------	--	----------

COMPOSITION (USE APPROPRIATE)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
-------------------------------	-----------------	--------------------	-----	---------------------------------------	---	----------

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED	REMARKS
--------------------------------	---------

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITION	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS								
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12						
5-22-13	0855	CV 986A - CS	C	X			X																			
	0855	CV 986A - CSD	C	X			X																			
	0905	CV 986B - CS	C	X			X																			
	1045	CV 991A - CS	C	X			X																			
	1055	CV 991B - CS	C	X			X																			
	1015	CV 992A - CS	C	X			X																			
	1025	CV 992B - CS	C	X			X	X																		
	0825	CV 1034A - CS	C	X			X																			
	0825	CV 1034A - CSD	C	X			X																			
	0930	CV 1073A - CS	C	X			X																			
	0940	CV 1073B - CS	C	X			X																			
	0950	CV 6543A - CS-SP	C	X			X																			



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5-23-13	TIME 1530	RELINQUISHED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE 5/28/13	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE 5/24/13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 5/29/13	TIME 0745	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/> 2.0°C	CUSTODY SEAL NO. 680-90686	SAVANNAH LOG NO. 680-90686	LABORATORY REMARKS 5.9°C cu 7
---	-----------------	--------------	---	-------------------------------	-------------------------------	----------------------------------

(b) (6)
(b) (6)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

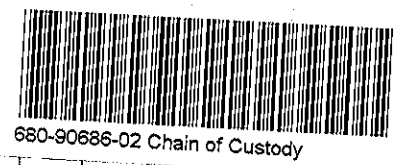
Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>

(b) (6)
(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY DATE DUE _____
				<i>LLPAH</i> <i>REAS/MSDS</i>	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>
PRESERVATIVE					DATE DUE _____
					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	ACQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME							1	2	3	4	5	6	7	8	9	10			
<i>5-22-13</i>	<i>0914</i>	<i>CV0543 B - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>0930</i>	<i>CV0543 C - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1020</i>	<i>HP0036 A - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1031</i>	<i>HP0036 B - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1045</i>	<i>HP0036 C - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1235</i>	<i>CV0990 A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1245</i>	<i>CV0990 B - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1255</i>	<i>CV0990 C - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1310</i>	<i>CV0990 D - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>												
	<i>1425</i>	<i>CV0996 A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1455</i>	<i>CV1002 A - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													
	<i>1505</i>	<i>CV1002 B - CS</i>	<i>C</i>	<i>X</i>			<i>X</i>													



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-23-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE <i>5/28/13</i>	TIME <i>1500</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE <i>5/24/13</i>	TIME <i>0840</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/24/13</i>	TIME <i>0915</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO. <i>2.0°C</i>	SAVANNAH LOG NO. <i>680-90686</i>	LABORATORY REMARKS
---	------------------------	---------------------	---	----------------------------------	--------------------------------------	--------------------

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

SDG Number: 68090686-1

Login Number: 90686
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

SDG Number: 68090686-1

Login Number: 90686

List Source: TestAmerica Tampa

List Number: 1

List Creation: 05/24/13 04:23 PM

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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: 680-90686-1

TestAmerica Sample Delivery Group: 68090686-1

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:

6/6/2013 6:07:02 PM

Bernard Kirkland, Project Manager I

(912)354-7858 e.3238

bernard.kirkland@testamericainc.com

Designee for

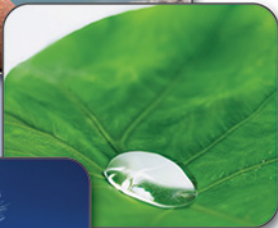
Lisa Harvey, Project Manager II

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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6

7

8

9

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11

12

Case Narrative

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

Job ID: 680-90686-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-90686-1

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 05/24/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.9 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0986A-CS (680-90686-1), CV0986A-CSD (680-90686-2), CV0986B-CS (680-90686-3), CV0991A-CS (680-90686-4), CV0991B-CS (680-90686-5), CV0992A-CS (680-90686-6), CV0992B-CS (680-90686-7), CV1034A-CS (680-90686-8), CV1034A-CSD (680-90686-9), CV1073A-CS (680-90686-10), CV1073B-CS (680-90686-11), CV0543A-CS-SP (680-90686-12), CV0543B-CS-SP (680-90686-13), CV0543C-CS-SP (680-90686-14), HP0036A-CS-SP (680-90686-15), HP0036B-CS-SP (680-90686-16), HP0036C-CS-SP (680 90686 17), CV0990A CS (680-90686 18), CV0990B CS (680-90686 19) and CV0990C CS (680 90686 20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/29/2013 and 05/31/2013 and analyzed on 05/29/2013 and 06/05/2013.

Samples CV0986A-CS (680-90686-1)[4X], CV0986A-CSD (680-90686-2)[4X], CV0986B-CS (680-90686-3)[4X], CV0991A-CS (680-90686-4)[4X], CV0991B-CS (680-90686-5)[4X], CV0992A-CS (680-90686-6)[4X], CV0992B-CS (680-90686-7)[4X], CV1034A-CS (680-90686-8)[4X], CV1034A-CSD (680-90686-9)[4X], CV1073B-CS (680-90686-11)[4X], CV0543A-CS-SP (680-90686-12)[4X], CV0543B-CS-SP (680-90686-13)[4X], CV0543C-CS-SP (680-90686-14)[4X], HP0036B-CS-SP (680-90686-16)[4X], HP0036C-CS-SP (680-90686-17)[4X], CV0990A-CS (680-90686-18)[4X], CV0990B-CS (680-90686-19)[4X] and CV0990C-CS (680-90686-20)[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 CV0992B-CS (680-90686-7) in batch 660-137876. Benzofg,h, jperylene and Chrysene exceeded the RPD limit.

No other difficulties were encountered during the SVOAs analysis.

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: 680-90686-1
SDG: 68090686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-90686-1	CV0986A-CS	Solid	05/22/13 08:55	05/24/13 08:40
680-90686-2	CV0986A-CSD	Solid	05/22/13 08:55	05/24/13 08:40
680-90686-3	CV0986B-CS	Solid	05/22/13 09:05	05/24/13 08:40
680-90686-4	CV0991A-CS	Solid	05/22/13 10:45	05/24/13 08:40
680-90686-5	CV0991B-CS	Solid	05/22/13 10:55	05/24/13 08:40
680-90686-6	CV0992A-CS	Solid	05/22/13 10:15	05/24/13 08:40
680-90686-7	CV0992B-CS	Solid	05/22/13 10:25	05/24/13 08:40
680-90686-8	CV1034A-CS	Solid	05/22/13 08:25	05/24/13 08:40
680-90686-9	CV1034A-CSD	Solid	05/22/13 08:25	05/24/13 08:40
680-90686-10	CV1073A-CS	Solid	05/22/13 09:30	05/24/13 08:40
680-90686-11	CV1073B-CS	Solid	05/22/13 09:40	05/24/13 08:40
680-90686-12	CV0543A-CS-SP	Solid	05/22/13 09:01	05/24/13 08:40
680-90686-13	CV0543B-CS-SP	Solid	05/22/13 09:14	05/24/13 08:40
680-90686-14	CV0543C-CS-SP	Solid	05/22/13 09:30	05/24/13 08:40
680-90686-15	HP0036A-CS-SP	Solid	05/22/13 10:20	05/24/13 08:40
680-90686-16	HP0036B-CS-SP	Solid	05/22/13 10:31	05/24/13 08:40
680-90686-17	HP0036C-CS-SP	Solid	05/22/13 10:45	05/24/13 08:40
680-90686-18	CV0990A-CS	Solid	05/22/13 12:35	05/24/13 08:40
680-90686-19	CV0990B-CS	Solid	05/22/13 12:45	05/24/13 08:40
680-90686-20	CV0990C-CS	Solid	05/22/13 12:55	05/24/13 08:40

Method Summary

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

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: 680-90686-1
SDG: 68090686-1

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
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0986A-CS

Lab Sample ID: 680-90686-1

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	96	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Acenaphthylene	40	J	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Anthracene	73		40	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[a]anthracene	270		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[a]pyrene	160		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[b]fluoranthene	250		58	29	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[g,h,i]perylene	190		96	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Benzo[k]fluoranthene	86		38	17	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Chrysene	260		43	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Dibenz(a,h)anthracene	96	U	96	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Fluoranthene	220		96	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Fluorene	96	U	96	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Indeno[1,2,3-cd]pyrene	140		96	34	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
1-Methylnaphthalene	100	J	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
2-Methylnaphthalene	150	J	190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Naphthalene	120	J	190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Phenanthrene	240		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Pyrene	270		96	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	43		30 - 130				05/29/13 06:31	05/29/13 20:30	4

Client Sample ID: CV0986A-CSD

Lab Sample ID: 680-90686-2

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Acenaphthylene	54	J	200	24	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Anthracene	120		41	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[a]anthracene	460		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[a]pyrene	270		51	25	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[b]fluoranthene	430		60	30	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[g,h,i]perylene	340		98	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Benzo[k]fluoranthene	99		39	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Chrysene	460		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Dibenz(a,h)anthracene	130		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Fluoranthene	410		98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Fluorene	98	U	98	20	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Indeno[1,2,3-cd]pyrene	230		98	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
1-Methylnaphthalene	67	J	200	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
2-Methylnaphthalene	100	J	200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Naphthalene	120	J	200	21	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Phenanthrene	300		39	19	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Pyrene	380		98	18	ug/Kg	☼	05/29/13 06:31	05/29/13 20:44	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130				05/29/13 06:31	05/29/13 20:44	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

Client Sample ID: CV0986B-CS

Lab Sample ID: 680-90686-3

Date Collected: 05/22/13 09:05

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J	500	99	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Acenaphthylene	59	J	200	25	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Anthracene	430		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[a]anthracene	1200		40	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[a]pyrene	610		52	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[b]fluoranthene	890		61	30	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[g,h,i]perylene	380		99	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Benzo[k]fluoranthene	330		40	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Chrysene	770		45	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Dibenz(a,h)anthracene	140		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Fluoranthene	1400		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Fluorene	120		99	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Indeno[1,2,3-cd]pyrene	340		99	35	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
1-Methylnaphthalene	140	J	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
2-Methylnaphthalene	210		200	35	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Naphthalene	140	J	200	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Phenanthrene	1600		40	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Pyrene	1300		99	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				05/29/13 06:31	05/29/13 21:00	4

Client Sample ID: CV0991A-CS

Lab Sample ID: 680-90686-4

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Acenaphthylene	54	J	210	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Anthracene	100		44	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[a]anthracene	290		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[a]pyrene	190		55	27	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[b]fluoranthene	330		65	32	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[g,h,i]perylene	160		110	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Chrysene	320		48	24	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Fluoranthene	250		110	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Fluorene	110	U	110	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Indeno[1,2,3-cd]pyrene	180		110	38	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
1-Methylnaphthalene	140	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
2-Methylnaphthalene	200	J	210	38	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Naphthalene	180	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Phenanthrene	340		42	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Pyrene	260		110	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:15	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	37		30 - 130				05/29/13 06:31	05/29/13 21:15	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

Client Sample ID: CV0991B-CS

Lab Sample ID: 680-90686-5

Date Collected: 05/22/13 10:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Acenaphthylene	29	J	190	24	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Anthracene	64		40	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[a]anthracene	38	U	38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[a]pyrene	120		50	25	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[b]fluoranthene	230		58	29	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[g,h,i]perylene	98		95	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Benzo[k]fluoranthene	77		38	17	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Chrysene	360		43	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Dibenz(a,h)anthracene	95	U	95	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Fluoranthene	180		95	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Fluorene	22	J	95	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Indeno[1,2,3-cd]pyrene	130		95	34	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
1-Methylnaphthalene	230		190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
2-Methylnaphthalene	460		190	34	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Naphthalene	470		190	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Phenanthrene	410		38	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Pyrene	190		95	18	ug/Kg	☼	05/29/13 06:31	05/29/13 21:30	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	45		30 - 130				05/29/13 06:31	05/29/13 21:30	4

Client Sample ID: CV0992A-CS

Lab Sample ID: 680-90686-6

Date Collected: 05/22/13 10:15

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 76.2

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	☼	05/29/13 06:31	05/29/13 21:45	4
Acenaphthylene	35	J	210	26	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Anthracene	57		43	22	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[a]anthracene	41	U	41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[a]pyrene	180		54	27	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[b]fluoranthene	320		63	31	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[g,h,i]perylene	120		100	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Benzo[k]fluoranthene	100		41	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Chrysene	330		46	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Dibenz(a,h)anthracene	100	U	100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Fluoranthene	200		100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Fluorene	100	U	100	21	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Indeno[1,2,3-cd]pyrene	100	U	100	37	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
1-Methylnaphthalene	110	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
2-Methylnaphthalene	160	J	210	37	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Naphthalene	130	J	210	23	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Phenanthrene	230		41	20	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Pyrene	220		100	19	ug/Kg	☼	05/29/13 06:31	05/29/13 21:45	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	43		30 - 130				05/29/13 06:31	05/29/13 21:45	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0992B-CS

Lab Sample ID: 680-90686-7

Date Collected: 05/22/13 10:25

Matrix: Solid

Date Received: 05/24/13 08:40

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	150	J F	660	130	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Acenaphthylene	78	J F	260	33	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Anthracene	420	F	55	28	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[a]anthracene	1300	F	53	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[a]pyrene	670	F	69	34	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[b]fluoranthene	1200	F	80	40	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[g,h,i]perylene	370	F	130	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Benzo[k]fluoranthene	300	F	53	24	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Chrysene	990	F	59	30	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Dibenz(a,h)anthracene	150	F	130	27	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Fluoranthene	1500	F	130	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Fluorene	130	F	130	27	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Indeno[1,2,3-cd]pyrene	390	F	130	47	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
1-Methylnaphthalene	240	J	260	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
2-Methylnaphthalene	300	F	260	47	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Naphthalene	270	F	260	29	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Phenanthrene	1500	F	53	26	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Pyrene	1400	F	130	24	ug/Kg	☼	05/29/13 06:31	05/29/13 22:00	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	32		30 - 130				05/29/13 06:31	05/29/13 22:00	4

Client Sample ID: CV1034A-CS

Lab Sample ID: 680-90686-8

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	440	U	440	88	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Acenaphthylene	59	J	180	22	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Anthracene	110	F	37	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[a]anthracene	340	F	35	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[a]pyrene	410	F	46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[b]fluoranthene	600	F	54	27	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[g,h,i]perylene	340	F	88	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Benzo[k]fluoranthene	220	F	35	16	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Chrysene	490	F	40	20	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Dibenz(a,h)anthracene	110	F	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Fluoranthene	620	F	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Fluorene	38	J	88	18	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Indeno[1,2,3-cd]pyrene	310	F	88	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
1-Methylnaphthalene	100	J	180	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
2-Methylnaphthalene	170	J	180	31	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Naphthalene	130	J	180	19	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Phenanthrene	430	F	35	17	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Pyrene	530	F	88	16	ug/Kg	☼	05/31/13 10:03	06/05/13 16:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	86		30 - 130				05/31/13 10:03	06/05/13 16:48	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV1034A-CSD

Lab Sample ID: 680-90686-9

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	93	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Acenaphthylene	65	J	190	23	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Anthracene	120		39	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[a]anthracene	400		37	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[a]pyrene	440		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[b]fluoranthene	690		57	28	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[g,h,i]perylene	340		93	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Benzo[k]fluoranthene	220		37	17	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Chrysene	530		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Dibenz(a,h)anthracene	110		93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Fluoranthene	710		93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Fluorene	35	J	93	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Indeno[1,2,3-cd]pyrene	310		93	33	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
1-Methylnaphthalene	110	J	190	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
2-Methylnaphthalene	160	J	190	33	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Naphthalene	130	J	190	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Phenanthrene	520		37	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Pyrene	610		93	17	ug/Kg	☼	05/31/13 10:03	06/05/13 17:10	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130				05/31/13 10:03	06/05/13 17:10	4

Client Sample ID: CV1073A-CS

Lab Sample ID: 680-90686-10

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Acenaphthylene	6.4	J	49	6.1	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Anthracene	15		10	5.1	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[a]anthracene	61		9.7	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[a]pyrene	71		13	6.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[b]fluoranthene	120		15	7.4	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[g,h,i]perylene	47		24	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Benzo[k]fluoranthene	37		9.7	4.4	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Chrysene	89		11	5.5	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Dibenz(a,h)anthracene	18	J	24	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Fluoranthene	150		24	4.9	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Fluorene	6.0	J	24	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Indeno[1,2,3-cd]pyrene	53		24	8.6	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
1-Methylnaphthalene	10	J	49	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
2-Methylnaphthalene	15	J	49	8.6	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Naphthalene	17	J	49	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Phenanthrene	65		9.7	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Pyrene	100		24	4.5	ug/Kg	☼	05/31/13 10:03	06/05/13 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	71		30 - 130				05/31/13 10:03	06/05/13 17:33	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV1073B-CS

Lab Sample ID: 680-90686-11

Date Collected: 05/22/13 09:40

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 77.8

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	☼	05/31/13 10:03	06/05/13 17:55	4
Acenaphthylene	31	J	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Anthracene	48		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[a]anthracene	170		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[a]pyrene	190		53	26	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[b]fluoranthene	280		62	31	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[g,h,i]perylene	120		100	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Benzo[k]fluoranthene	84		41	18	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Chrysene	240		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Dibenz(a,h)anthracene	59	J	100	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Fluoranthene	280		100	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Fluorene	24	J	100	21	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Indeno[1,2,3-cd]pyrene	150		100	36	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
1-Methylnaphthalene	92	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
2-Methylnaphthalene	130	J	200	36	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Naphthalene	97	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Phenanthrene	230		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Pyrene	230		100	19	ug/Kg	☼	05/31/13 10:03	06/05/13 17:55	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130				05/31/13 10:03	06/05/13 17:55	4

Client Sample ID: CV0543A-CS-SP

Lab Sample ID: 680-90686-12

Date Collected: 05/22/13 09:01

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 64.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	210	J	610	120	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Acenaphthylene	100	J	240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Anthracene	550		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[a]anthracene	960		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[a]pyrene	940		63	32	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[b]fluoranthene	1500		74	37	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[g,h,i]perylene	530		120	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Benzo[k]fluoranthene	510		49	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Chrysene	1200		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Dibenz(a,h)anthracene	170		120	25	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Fluoranthene	2100		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Fluorene	210		120	25	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Indeno[1,2,3-cd]pyrene	560		120	43	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
1-Methylnaphthalene	240		240	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
2-Methylnaphthalene	350		240	43	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Naphthalene	370		240	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Phenanthrene	1900		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Pyrene	1700		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	106		30 - 130				05/31/13 10:03	06/05/13 18:18	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0543B-CS-SP

Lab Sample ID: 680-90686-13

Date Collected: 05/22/13 09:14

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Acenaphthylene	72	J	220	27	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Anthracene	110		46	23	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[a]anthracene	290		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[a]pyrene	330		56	28	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[b]fluoranthene	580		66	33	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[g,h,i]perylene	210		110	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Benzo[k]fluoranthene	170		43	20	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Chrysene	410		49	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Dibenz(a,h)anthracene	96	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Fluoranthene	400		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Fluorene	110	U	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Indeno[1,2,3-cd]pyrene	250		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
1-Methylnaphthalene	180	J	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
2-Methylnaphthalene	230		220	38	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Naphthalene	170	J	220	24	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Phenanthrene	310		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Pyrene	350		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 18:41	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	98		30 - 130				05/31/13 10:03	06/05/13 18:41	4

Client Sample ID: CV0543C-CS-SP

Lab Sample ID: 680-90686-14

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 67.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	590	U	590	120	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Acenaphthylene	260		240	30	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Anthracene	540		50	25	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[a]anthracene	690		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[a]pyrene	790		62	31	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[b]fluoranthene	1500		72	36	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[g,h,i]perylene	500		120	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Benzo[k]fluoranthene	500		47	21	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Chrysene	990		53	27	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Dibenz(a,h)anthracene	200		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Fluoranthene	1100		120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Fluorene	72	J	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Indeno[1,2,3-cd]pyrene	520		120	42	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
1-Methylnaphthalene	330		240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
2-Methylnaphthalene	420		240	42	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Naphthalene	410		240	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Phenanthrene	950		47	23	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Pyrene	1200		120	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		30 - 130				05/31/13 10:03	06/05/13 19:03	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: HP0036A-CS-SP

Lab Sample ID: 680-90686-15

Date Collected: 05/22/13 10:20

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	30	J	120	24	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Acenaphthylene	76		47	5.9	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Anthracene	120		9.9	5.0	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[a]anthracene	650		9.4	4.6	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[a]pyrene	980		12	6.1	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[b]fluoranthene	1500		14	7.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[g,h,i]perylene	670		24	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Benzo[k]fluoranthene	510		9.4	4.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Chrysene	880		11	5.3	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Dibenz(a,h)anthracene	200		24	4.8	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Fluoranthene	900		24	4.7	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Fluorene	33		24	4.8	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Indeno[1,2,3-cd]pyrene	620		24	8.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
1-Methylnaphthalene	83		47	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
2-Methylnaphthalene	130		47	8.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Naphthalene	440		47	5.2	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Phenanthrene	450		9.4	4.6	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Pyrene	820		24	4.4	ug/Kg	☼	05/31/13 10:03	06/05/13 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				05/31/13 10:03	06/05/13 19:26	1

Client Sample ID: HP0036B-CS-SP

Lab Sample ID: 680-90686-16

Date Collected: 05/22/13 10:31

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	99	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Acenaphthylene	72	J	200	25	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Anthracene	78		41	21	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[a]anthracene	250		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[a]pyrene	330		51	26	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[b]fluoranthene	500		60	30	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[g,h,i]perylene	210		99	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Benzo[k]fluoranthene	180		40	18	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Chrysene	350		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Dibenz(a,h)anthracene	84	J	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Fluoranthene	390		99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Fluorene	99	U	99	20	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Indeno[1,2,3-cd]pyrene	240		99	35	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
1-Methylnaphthalene	74	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
2-Methylnaphthalene	120	J	200	35	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Naphthalene	140	J	200	22	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Phenanthrene	260		40	19	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Pyrene	320		99	18	ug/Kg	☼	05/31/13 10:03	06/05/13 19:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	100		30 - 130				05/31/13 10:03	06/05/13 19:48	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: HP0036C-CS-SP

Lab Sample ID: 680-90686-17

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 74.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Acenaphthylene	79	J	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Anthracene	160		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[a]anthracene	510		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[a]pyrene	500		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[b]fluoranthene	840		65	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[g,h,i]perylene	270		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Benzo[k]fluoranthene	310		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Chrysene	730		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Dibenz(a,h)anthracene	110		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Fluoranthene	900		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Fluorene	49	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Indeno[1,2,3-cd]pyrene	300		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
1-Methylnaphthalene	170	J	210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
2-Methylnaphthalene	270		210	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Naphthalene	290		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Phenanthrene	650		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Pyrene	720		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:11	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		30 - 130				05/31/13 10:03	06/05/13 20:11	4

Client Sample ID: CV0990A-CS

Lab Sample ID: 680-90686-18

Date Collected: 05/22/13 12:35

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	J	450	91	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Acenaphthylene	85	J	180	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Anthracene	330		38	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[a]anthracene	1500		36	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[a]pyrene	1300		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[b]fluoranthene	2200		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[g,h,i]perylene	580		91	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Benzo[k]fluoranthene	790		36	16	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Chrysene	1600		41	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Dibenz(a,h)anthracene	230		91	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Fluoranthene	3100		91	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Fluorene	75	J	91	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Indeno[1,2,3-cd]pyrene	630		91	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
1-Methylnaphthalene	100	J	180	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
2-Methylnaphthalene	140	J	180	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Naphthalene	110	J	180	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Phenanthrene	1700		36	18	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Pyrene	2300		91	17	ug/Kg	☼	05/31/13 10:03	06/05/13 20:33	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	94		30 - 130				05/31/13 10:03	06/05/13 20:33	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0990B-CS

Lab Sample ID: 680-90686-19

Date Collected: 05/22/13 12:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Acenaphthylene	71	J	210	27	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Anthracene	200		45	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[a]anthracene	830		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[a]pyrene	810		55	28	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[b]fluoranthene	1400		65	32	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[g,h,i]perylene	470		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Benzo[k]fluoranthene	440		43	19	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Chrysene	1100		48	24	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Dibenz(a,h)anthracene	180		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Fluoranthene	1500		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Fluorene	73	J	110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Indeno[1,2,3-cd]pyrene	480		110	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
1-Methylnaphthalene	340		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
2-Methylnaphthalene	440		210	38	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Naphthalene	230		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Phenanthrene	1200		43	21	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Pyrene	1200		110	20	ug/Kg	☼	05/31/13 10:03	06/05/13 20:56	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130				05/31/13 10:03	06/05/13 20:56	4

Client Sample ID: CV0990C-CS

Lab Sample ID: 680-90686-20

Date Collected: 05/22/13 12:55

Matrix: Solid

Date Received: 05/24/13 08:40

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	280	J	530	110	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Acenaphthylene	190	J	210	26	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Anthracene	830		44	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[a]anthracene	2500		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[a]pyrene	2600		55	27	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[b]fluoranthene	4100		64	32	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[g,h,i]perylene	1300		110	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Benzo[k]fluoranthene	1500		42	19	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Chrysene	2900		47	24	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Dibenz(a,h)anthracene	450		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Fluoranthene	5100		110	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Fluorene	270		110	22	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Indeno[1,2,3-cd]pyrene	1300		110	37	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
1-Methylnaphthalene	430		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
2-Methylnaphthalene	600		210	37	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Naphthalene	340		210	23	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Phenanthrene	3400		42	21	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Pyrene	3900		110	19	ug/Kg	☼	05/31/13 10:03	06/05/13 21:19	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	90		30 - 130				05/31/13 10:03	06/05/13 21:19	4

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

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

Lab Sample ID: MB 660-137845/1-A

Matrix: Solid

Analysis Batch: 137876

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 137845

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Acenaphthylene	39	U	39	4.9	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Anthracene	8.2	U	8.2	4.1	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[a]anthracene	7.8	U	7.8	3.8	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[g,h,i]perylene	20	U	20	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Benzo[k]fluoranthene	7.8	U	7.8	3.5	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Chrysene	8.8	U	8.8	4.4	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Fluoranthene	20	U	20	3.9	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Fluorene	20	U	20	4.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
1-Methylnaphthalene	39	U	39	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Naphthalene	39	U	39	4.3	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Phenanthrene	7.8	U	7.8	3.8	ug/Kg		05/29/13 06:31	05/29/13 16:04	1
Pyrene	20	U	20	3.6	ug/Kg		05/29/13 06:31	05/29/13 16:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	49		30 - 130	05/29/13 06:31	05/29/13 16:04	1

Lab Sample ID: LCS 660-137845/2-A

Matrix: Solid

Analysis Batch: 137876

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 137845

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	650	395		ug/Kg		61	39 - 130
Acenaphthylene	650	383		ug/Kg		59	38 - 130
Anthracene	650	362		ug/Kg		56	37 - 130
Benzo[a]anthracene	650	417		ug/Kg		64	40 - 130
Benzo[a]pyrene	650	320		ug/Kg		49	49 - 130
Benzo[b]fluoranthene	650	261		ug/Kg		40	37 - 130
Benzo[g,h,i]perylene	650	412		ug/Kg		63	32 - 130
Benzo[k]fluoranthene	650	368		ug/Kg		57	32 - 130
Chrysene	650	429		ug/Kg		66	41 - 130
Dibenz(a,h)anthracene	650	346		ug/Kg		53	27 - 130
Fluoranthene	650	328		ug/Kg		50	40 - 130
Fluorene	650	415		ug/Kg		64	40 - 130
Indeno[1,2,3-cd]pyrene	650	314		ug/Kg		48	30 - 130
1-Methylnaphthalene	650	428		ug/Kg		66	31 - 130
2-Methylnaphthalene	650	405		ug/Kg		62	33 - 130
Naphthalene	650	412		ug/Kg		63	36 - 130
Phenanthrene	650	396		ug/Kg		61	42 - 130
Pyrene	650	395		ug/Kg		61	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

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

Lab Sample ID: LCS 660-137845/2-A
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137845

Surrogate	LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	55		30 - 130

Lab Sample ID: 680-90686-7 MS
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: CV0992B-CS
Prep Type: Total/NA
Prep Batch: 137845

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Acenaphthene	150	J F	1100	671		ug/Kg	*	47		39 - 130
Acenaphthylene	78	J F	1100	555		ug/Kg	*	43		38 - 130
Anthracene	420	F	1100	891		ug/Kg	*	43		37 - 130
Benzo[a]anthracene	1300	F	1100	1960		ug/Kg	*	59		40 - 130
Benzo[a]pyrene	670	F	1100	1160	F	ug/Kg	*	45		49 - 130
Benzo[b]fluoranthene	1200	F	1100	1700		ug/Kg	*	48		37 - 130
Benzo[g,h,i]perylene	370	F	1100	721		ug/Kg	*	32		32 - 130
Benzo[k]fluoranthene	300		1100	741		ug/Kg	*	40		32 - 130
Chrysene	990	F	1100	1900		ug/Kg	*	83		41 - 130
Dibenz(a,h)anthracene	150	F	1100	552		ug/Kg	*	37		27 - 130
Fluoranthene	1500	F	1100	2110		ug/Kg	*	55		40 - 130
Fluorene	130	F	1100	632		ug/Kg	*	46		40 - 130
Indeno[1,2,3-cd]pyrene	390	F	1100	663	F	ug/Kg	*	25		30 - 130
1-Methylnaphthalene	240	J	1100	734		ug/Kg	*	45		31 - 130
2-Methylnaphthalene	300		1100	935		ug/Kg	*	58		33 - 130
Naphthalene	270		1100	814		ug/Kg	*	50		36 - 130
Phenanthrene	1500	F	1100	2100		ug/Kg	*	55		42 - 130
Pyrene	1400	F	1100	2090		ug/Kg	*	61		44 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	35		30 - 130

Lab Sample ID: 680-90686-7 MSD
Matrix: Solid
Analysis Batch: 137876

Client Sample ID: CV0992B-CS
Prep Type: Total/NA
Prep Batch: 137845

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	150	J F	1100	521	J F	ug/Kg	*	33		39 - 130	25	40
Acenaphthylene	78	J F	1100	447	F	ug/Kg	*	34		38 - 130	22	40
Anthracene	420	F	1100	772	F	ug/Kg	*	32		37 - 130	14	40
Benzo[a]anthracene	1300	F	1100	1490	F	ug/Kg	*	16		40 - 130	27	40
Benzo[a]pyrene	670	F	1100	864	F	ug/Kg	*	18		49 - 130	30	40
Benzo[b]fluoranthene	1200	F	1100	1140	F	ug/Kg	*	-3		37 - 130	40	40
Benzo[g,h,i]perylene	370	F	1100	477	F	ug/Kg	*	10		32 - 130	41	40
Benzo[k]fluoranthene	300		1100	708		ug/Kg	*	37		32 - 130	5	40
Chrysene	990	F	1100	1190	F	ug/Kg	*	18		41 - 130	46	40
Dibenz(a,h)anthracene	150	F	1100	375	F	ug/Kg	*	21		27 - 130	38	40
Fluoranthene	1500	F	1100	1760	F	ug/Kg	*	24		40 - 130	18	40
Fluorene	130	F	1100	530	F	ug/Kg	*	36		40 - 130	18	40
Indeno[1,2,3-cd]pyrene	390	F	1100	504	F	ug/Kg	*	10		30 - 130	27	40
1-Methylnaphthalene	240	J	1100	688		ug/Kg	*	41		31 - 130	6	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

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

Lab Sample ID: 680-90686-7 MSD

Matrix: Solid

Analysis Batch: 137876

Client Sample ID: CV0992B-CS

Prep Type: Total/NA

Prep Batch: 137845

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
2-Methylnaphthalene	300		1100	873		ug/Kg	*	53	33 - 130	7	40	
Naphthalene	270		1100	767		ug/Kg	*	45	36 - 130	6	40	
Phenanthrene	1500	F	1100	1760	F	ug/Kg	*	24	42 - 130	18	40	
Pyrene	1400	F	1100	1520	F	ug/Kg	*	9	44 - 130	32	40	
Surrogate	%Recovery	MSD	MSD	Qualifier		Limits						
<i>o</i> -Terphenyl	31					30 - 130						

Lab Sample ID: MB 660-137947/1-A

Matrix: Solid

Analysis Batch: 138106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 137947

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Acenaphthene	100	U	100	20	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Acenaphthylene	40	U	40	5.0	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Anthracene	8.4	U	8.4	4.2	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Chrysene	9.0	U	9.0	4.5	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Fluoranthene	20	U	20	4.0	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Fluorene	20	U	20	4.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Naphthalene	40	U	40	4.4	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Pyrene	20	U	20	3.7	ug/Kg		05/31/13 10:03	06/05/13 13:02	1	
Surrogate	%Recovery	MB	MB	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84					30 - 130		05/31/13 10:03	06/05/13 13:02	1

Lab Sample ID: LCS 660-137947/2-A

Matrix: Solid

Analysis Batch: 138106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 137947

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
		Added	Result				Qualifier	Limits
Acenaphthene	665	529		ug/Kg		79	39 - 130	
Acenaphthylene	665	576		ug/Kg		87	38 - 130	
Anthracene	665	591		ug/Kg		89	37 - 130	
Benzo[a]anthracene	665	545		ug/Kg		82	40 - 130	
Benzo[a]pyrene	665	521		ug/Kg		78	49 - 130	
Benzo[b]fluoranthene	665	588		ug/Kg		88	37 - 130	
Benzo[g,h,i]perylene	665	618		ug/Kg		93	32 - 130	
Benzo[k]fluoranthene	665	562		ug/Kg		84	32 - 130	

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

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

Lab Sample ID: LCS 660-137947/2-A

Matrix: Solid

Analysis Batch: 138106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 137947

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	665	575		ug/Kg		86	41 - 130
Dibenz(a,h)an hracene	665	572		ug/Kg		86	27 - 130
Fluoranthene	665	572		ug/Kg		86	40 - 130
Fluorene	665	568		ug/Kg		85	40 - 130
Indeno[1,2,3-cd]pyrene	665	537		ug/Kg		81	30 - 130
1-Methylnaphthalene	665	505		ug/Kg		76	31 - 130
2-Methylnaphthalene	665	535		ug/Kg		80	33 - 130
Naphthalene	665	529		ug/Kg		80	36 - 130
Phenanthrene	665	569		ug/Kg		85	42 - 130
Pyrene	665	613		ug/Kg		92	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	79		30 - 130

- 1
- 2
- 3
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QC Association Summary

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

GC/MS Semi VOA

Prep Batch: 137845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-1	CV0986A-CS	Total/NA	Solid	3546	
680-90686-2	CV0986A-CSD	Total/NA	Solid	3546	
680-90686-3	CV0986B-CS	Total/NA	Solid	3546	
680-90686-4	CV0991A-CS	Total/NA	Solid	3546	
680-90686-5	CV0991B-CS	Total/NA	Solid	3546	
680-90686-6	CV0992A-CS	Total/NA	Solid	3546	
680-90686-7	CV0992B-CS	Total/NA	Solid	3546	
680-90686-7 MS	CV0992B-CS	Total/NA	Solid	3546	
680-90686-7 MSD	CV0992B-CS	Total/NA	Solid	3546	
LCS 660-137845/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137845/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 137876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-1	CV0986A-CS	Total/NA	Solid	8270C LL	137845
680-90686-2	CV0986A-CSD	Total/NA	Solid	8270C LL	137845
680-90686-3	CV0986B-CS	Total/NA	Solid	8270C LL	137845
680-90686-4	CV0991A-CS	Total/NA	Solid	8270C LL	137845
680-90686-5	CV0991B-CS	Total/NA	Solid	8270C LL	137845
680-90686-6	CV0992A-CS	Total/NA	Solid	8270C LL	137845
680-90686-7	CV0992B-CS	Total/NA	Solid	8270C LL	137845
680-90686-7 MS	CV0992B-CS	Total/NA	Solid	8270C LL	137845
680-90686-7 MSD	CV0992B-CS	Total/NA	Solid	8270C LL	137845
LCS 660-137845/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137845
MB 660-137845/1-A	Method Blank	Total/NA	Solid	8270C LL	137845

Prep Batch: 137947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-8	CV1034A-CS	Total/NA	Solid	3546	
680-90686-9	CV1034A-CSD	Total/NA	Solid	3546	
680-90686-10	CV1073A-CS	Total/NA	Solid	3546	
680-90686-11	CV1073B-CS	Total/NA	Solid	3546	
680-90686-12	CV0543A-CS-SP	Total/NA	Solid	3546	
680-90686-13	CV0543B-CS-SP	Total/NA	Solid	3546	
680-90686-14	CV0543C-CS-SP	Total/NA	Solid	3546	
680-90686-15	HP0036A-CS-SP	Total/NA	Solid	3546	
680-90686-16	HP0036B-CS-SP	Total/NA	Solid	3546	
680-90686-17	HP0036C-CS-SP	Total/NA	Solid	3546	
680-90686-18	CV0990A-CS	Total/NA	Solid	3546	
680-90686-19	CV0990B-CS	Total/NA	Solid	3546	
680-90686-20	CV0990C-CS	Total/NA	Solid	3546	
LCS 660-137947/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-137947/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 138106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-8	CV1034A-CS	Total/NA	Solid	8270C LL	137947
680-90686-9	CV1034A-CSD	Total/NA	Solid	8270C LL	137947
680-90686-10	CV1073A-CS	Total/NA	Solid	8270C LL	137947
680-90686-11	CV1073B-CS	Total/NA	Solid	8270C LL	137947
680-90686-12	CV0543A-CS-SP	Total/NA	Solid	8270C LL	137947

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

GC/MS Semi VOA (Continued)

Analysis Batch: 138106 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-13	CV0543B-CS-SP	Total/NA	Solid	8270C LL	137947
680-90686-14	CV0543C-CS-SP	Total/NA	Solid	8270C LL	137947
680-90686-15	HP0036A-CS-SP	Total/NA	Solid	8270C LL	137947
680-90686-16	HP0036B-CS-SP	Total/NA	Solid	8270C LL	137947
680-90686-17	HP0036C-CS-SP	Total/NA	Solid	8270C LL	137947
680-90686-18	CV0990A-CS	Total/NA	Solid	8270C LL	137947
680-90686-19	CV0990B-CS	Total/NA	Solid	8270C LL	137947
680-90686-20	CV0990C-CS	Total/NA	Solid	8270C LL	137947
LCS 660-137947/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	137947
MB 660-137947/1-A	Method Blank	Total/NA	Solid	8270C LL	137947

General Chemistry

Analysis Batch: 137827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-90686-1	CV0986A-CS	Total/NA	Solid	Moisture	
680-90686-2	CV0986A-CSD	Total/NA	Solid	Moisture	
680-90686-3	CV0986B-CS	Total/NA	Solid	Moisture	
680-90686-4	CV0991A-CS	Total/NA	Solid	Moisture	
680-90686-5	CV0991B-CS	Total/NA	Solid	Moisture	
680-90686-6	CV0992A-CS	Total/NA	Solid	Moisture	
680-90686-7	CV0992B-CS	Total/NA	Solid	Moisture	
680-90686-7 MS	CV0992B-CS	Total/NA	Solid	Moisture	
680-90686-7 MSD	CV0992B-CS	Total/NA	Solid	Moisture	
680-90686-8	CV1034A-CS	Total/NA	Solid	Moisture	
680-90686-9	CV1034A-CSD	Total/NA	Solid	Moisture	
680-90686-10	CV1073A-CS	Total/NA	Solid	Moisture	
680-90686-11	CV1073B-CS	Total/NA	Solid	Moisture	
680-90686-12	CV0543A-CS-SP	Total/NA	Solid	Moisture	
680-90686-13	CV0543B-CS-SP	Total/NA	Solid	Moisture	
680-90686-14	CV0543C-CS-SP	Total/NA	Solid	Moisture	
680-90686-15	HP0036A-CS-SP	Total/NA	Solid	Moisture	
680-90686-16	HP0036B-CS-SP	Total/NA	Solid	Moisture	
680-90686-17	HP0036C-CS-SP	Total/NA	Solid	Moisture	
680-90686-18	CV0990A-CS	Total/NA	Solid	Moisture	
680-90686-19	CV0990B-CS	Total/NA	Solid	Moisture	
680-90686-20	CV0990C-CS	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0986A-CS

Lab Sample ID: 680-90686-1

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 20:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0986A-CSD

Lab Sample ID: 680-90686-2

Date Collected: 05/22/13 08:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 20:44	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0986B-CS

Lab Sample ID: 680-90686-3

Date Collected: 05/22/13 09:05

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 21:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0991A-CS

Lab Sample ID: 680-90686-4

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 21:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0991B-CS

Lab Sample ID: 680-90686-5

Date Collected: 05/22/13 10:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 21:30	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV0992A-CS

Lab Sample ID: 680-90686-6

Date Collected: 05/22/13 10:15

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 21:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0992B-CS

Lab Sample ID: 680-90686-7

Date Collected: 05/22/13 10:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 60.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137845	05/29/13 06:31	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	137876	05/29/13 22:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1034A-CS

Lab Sample ID: 680-90686-8

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 16:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1034A-CSD

Lab Sample ID: 680-90686-9

Date Collected: 05/22/13 08:25

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 17:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV1073A-CS

Lab Sample ID: 680-90686-10

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 17:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: CV1073B-CS

Lab Sample ID: 680-90686-11

Date Collected: 05/22/13 09:40

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 17:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0543A-CS-SP

Lab Sample ID: 680-90686-12

Date Collected: 05/22/13 09:01

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 64.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 18:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0543B-CS-SP

Lab Sample ID: 680-90686-13

Date Collected: 05/22/13 09:14

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 18:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0543C-CS-SP

Lab Sample ID: 680-90686-14

Date Collected: 05/22/13 09:30

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 67.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 19:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: HP0036A-CS-SP

Lab Sample ID: 680-90686-15

Date Collected: 05/22/13 10:20

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	138106	06/05/13 19:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

Client Sample ID: HP0036B-CS-SP

Lab Sample ID: 680-90686-16

Date Collected: 05/22/13 10:31

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 19:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: HP0036C-CS-SP

Lab Sample ID: 680-90686-17

Date Collected: 05/22/13 10:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 20:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0990A-CS

Lab Sample ID: 680-90686-18

Date Collected: 05/22/13 12:35

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 20:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0990B-CS

Lab Sample ID: 680-90686-19

Date Collected: 05/22/13 12:45

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 20:56	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	AG	TAL TAM

Client Sample ID: CV0990C-CS

Lab Sample ID: 680-90686-20

Date Collected: 05/22/13 12:55

Matrix: Solid

Date Received: 05/24/13 08:40

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			137947	05/31/13 10:03	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	138106	06/05/13 21:19	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	137827	05/28/13 10:54	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

680-90686

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test America Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 200548-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1	OF 3
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
					EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

(b) (6)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITION (by measure)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	PRESERVATIVE				REMARKS
								1	2	3	4	
5-22-13	0855	CV 986A - CS	C	X			X					
	0855	CV 986A - CSD	C	X			X					
	0705	CV 986B - CS	C	X			X					
	1045	CV 991A - CS	C	X			X					
	1055	CV 991B - CS	C	X			X					
	1015	CV 992A - CS	C	X			X					
	1025	CV 992B - CS	C	X			X	X				
	0825	CV 1034A - CS	C	X			X					
	0825	CV 1034A - CSD	C	X			X					
	0930	CV 1073A - CS	C	X			X					
	0940	CV 1073B - CS	C	X			X					
	0904	CV 543A - CS-SP	C	X			X					



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 5/23/13	TIME 1530	RELINQUISHED BY: (SIGNATURE) <i>Carol McHulley</i>	DATE 5/28/13	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>Carol McHulley</i>	DATE 5/24/13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 5/29/13	TIME 0745	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/> 2.0°C	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-90686	LABORATORY REMARKS 5.9°C cu07
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Page 26 of 31

680917

Serial Number 64254

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="radio"/>

(b) (6)

COMPOSITE (C) OR LKAB (G) INDICATE	DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR LKAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCAB 816/16/15	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
												EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____
												NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR LKAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCAB 816/16/15	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5-22-B	0914	CV0543 B - CS - SP	C	X			X					
	0930	CV0543 C - CS - SP	C	X			X					
	1020	HP0036 A - CS - SP	C	X			X					
	1031	HP0036 B - CS - SP	C	X			X					
	1045	HP0036 C - CS - SP	C	X			X					
	1235	CV0990 A - CS	C	X			X					
	1245	CV0990 B - CS	C	X			X					
	1255	CV0990 C - CS	C	X			X					
	1310	CV0990 D - CS	C	X			X	X				
	1425	CV0996 A - CS	C	X			X					
	1455	CV1002 A - CS	C	X			X					
	1505	CV1002 B - CS	C	X			X					



RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-23-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE <i>5/28/13</i>	TIME <i>1500</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>Carol McNulty</i>	DATE <i>5/24/13</i>	TIME <i>0840</i>	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/24/13</i>	TIME <i>0915</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO. <i>2.0°C</i>	SAVANNAH LOG NO. <i>680-90686</i>	LABORATORY REMARKS
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Page 27 of 31

6/6/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

SDG Number: 68090686-1

Login Number: 90686

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-90686-1

SDG Number: 68090686-1

Login Number: 90686

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

List Creation: 05/24/13 04:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have 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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Certification Summary

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

TestAmerica Job ID: 680-90686-1
 SDG: 68090686-1

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		399.01	07-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13

* Expired certification is currently pending renewal and is considered valid.

Certification Summary

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

TestAmerica Job ID: 680-90686-1
SDG: 68090686-1

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
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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