ANALYTICAL REPORT

Job Number: 680-88766-2

SDG Number: 68088766-2

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
4/8/2013 9:11 AM

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04/08/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88766-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/28/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Sample CV0014AB-GS (680-88766-21) was analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and analyzed on 04/03/2013.

Sample CV0014AB-GS (680-88766-21)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the SVOAs analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-WATER

Sample 032613-RB-shovel (680-88766-23) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/02/2013 and analyzed on 04/05/2013.

Several analytes recovered outside the recovery criteria low for the MS of sample 032613-RB-shovel (680-88766-23) in batch 660-136171.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-2
Sdg Number: 68088766-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88766-21	CV0014AB-GS	Solid	03/25/2013 1518	03/28/2013 0937
680-88766-21MS	CV0014AB-GS	Solid	03/25/2013 1518	03/28/2013 0937
680-88766-21MSD	CV0014AB-GS	Solid	03/25/2013 1518	03/28/2013 0937
680-88766-23	032613-RB-shovel	Water	03/26/2013 1300	03/28/2013 0937

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-2
Sdg Number: 68088766-2

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	
Matrix: Water			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C

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: 680-88766-2
Sdg Number: 68088766-2

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: 680-88766-2
Sdg Number: 68088766-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-2
Sdg Number: 68088766-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-136013					
LCS 660-136013/2-A	Lab Control Sample	T	Water	3520C	
LCSD 660-136013/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 660-136013/1-A	Method Blank	T	Water	3520C	
680-88766-23	032613-RB-shovel	T	Water	3520C	
680-88766-23MS	Matrix Spike	T	Water	3520C	
Prep Batch: 660-136063					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136063/1-A	Method Blank	T	Solid	3546	
680-88766-21	CV0014AB-GS	T	Solid	3546	
680-88766-21MS	Matrix Spike	T	Solid	3546	
680-88766-21MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-136081					
LCS 660-136063/2-A	Lab Control Sample	T	Solid	8270C LL	660-136063
MB 660-136063/1-A	Method Blank	T	Solid	8270C LL	660-136063
680-88766-21	CV0014AB-GS	T	Solid	8270C LL	660-136063
680-88766-21MS	Matrix Spike	T	Solid	8270C LL	660-136063
680-88766-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136063
Analysis Batch:660-136164					
LCS 660-136013/2-A	Lab Control Sample	T	Water	8270C LL	660-136013
LCSD 660-136013/3-A	Lab Control Sample Duplicate	T	Water	8270C LL	660-136013
MB 660-136013/1-A	Method Blank	T	Water	8270C LL	660-136013
Analysis Batch:660-136171					
680-88766-23	032613-RB-shovel	T	Water	8270C LL	660-136013
680-88766-23MS	Matrix Spike	T	Water	8270C LL	660-136013

Report Basis
T = Total

General Chemistry

Analysis Batch:660-135922					
680-88766-A-6 MS	Matrix Spike	T	Solid	Moisture	
680-88766-A-6 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88766-21	CV0014AB-GS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/5 Client Sample ID:

Date Analyzed: 04/02/13 13:26 Lab File ID: 1CD02005.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136048/6 Client Sample ID:

Date Analyzed: 04/02/13 13:44 Lab File ID: 1CD02006.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136048/7 Client Sample ID:

Date Analyzed: 04/02/13 14:02 Lab File ID: 1CD02007.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136048/8 Client Sample ID:

Date Analyzed: 04/02/13 14:20 Lab File ID: 1CD02008.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: ICIS 660-136048/9 Client Sample ID:

Date Analyzed: 04/02/13 14:39 Lab File ID: 1CD02009.D GC Column: DB-5MS ID: 250(um)

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Analysis Batch Number: 136048

Lab Sample ID: IC 660-136048/10 Client Sample ID:

Date Analyzed: 04/02/13 14:57 Lab File ID: 1CD02010.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: IC 660-136048/11 Client Sample ID:

Date Analyzed: 04/02/13 15:15 Lab File ID: 1CD02011.D GC Column: DB-5MS ID: 250(um)

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

Lab Sample ID: ICV 660-136048/12 Client Sample ID:

Date Analyzed: 04/02/13 15:34 Lab File ID: 1CD02012.D GC Column: DB-5MS ID: 250(um)

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

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: CCVIS 660-136081/3 Client Sample ID:

Date Analyzed: 04/03/13 11:45 Lab File ID: 1CD03003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/03/13 11:59

Lab Sample ID: LCS 660-136063/2-A Client Sample ID:

Date Analyzed: 04/03/13 15:52 Lab File ID: 1CD03016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/13 15:32

Lab Sample ID: 680-88766-21 Client Sample ID: CV0014AB-GS

Date Analyzed: 04/03/13 16:10 Lab File ID: 1CD03017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.00	Split Peak	cantins	04/04/13 15:33
Dibenz(a,h)anthracene	10.02	Baseline Event	cantins	04/04/13 15:33
Benzo[g,h,i]perylene	10.35	Baseline Event	cantins	04/04/13 15:33

Lab Sample ID: 680-88766-21 MS Client Sample ID: CV0014AB-GS MS

Date Analyzed: 04/03/13 16:29 Lab File ID: 1CD03018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Split Peak	cantins	04/04/13 15:34
Dibenz(a,h)anthracene	10.01	Baseline Event	cantins	04/04/13 15:34
Benzo[g,h,i]perylene	10.34	Baseline Event	cantins	04/04/13 15:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Analysis Batch Number: 136081

Lab Sample ID: 680-88766-21 MSD Client Sample ID: CV0014AB-GS MSD

Date Analyzed: 04/03/13 16:47 Lab File ID: 1CD03019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.99	Baseline Event	cantins	04/04/13 15:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Analysis Batch Number: 136171

Lab Sample ID: CCVIS 660-136171/4 Client Sample ID:

Date Analyzed: 04/05/13 12:15 Lab File ID: 1CD05004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/05/13 12:33

Lab Sample ID: 680-88766-23 MS Client Sample ID: 032613-RB-shovel MS

Date Analyzed: 04/05/13 13:12 Lab File ID: 1CD05007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	9.96	Split Peak	cantins	04/05/13 13:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

Lab Sample ID: IC 660-136164/15 Client Sample ID:

Date Analyzed: 04/04/13 13:49 Lab File ID: 1DD04007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:28
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/16 Client Sample ID:

Date Analyzed: 04/04/13 14:11 Lab File ID: 1DD04008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 12:29
Dibenz(a,h)anthracene	14.76	Baseline Event	cantins	04/05/13 12:28

Lab Sample ID: IC 660-136164/17 Client Sample ID:

Date Analyzed: 04/04/13 14:34 Lab File ID: 1DD04009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/13 12:29

Lab Sample ID: IC 660-136164/18 Client Sample ID:

Date Analyzed: 04/04/13 14:57 Lab File ID: 1DD04010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.75	Split Peak	cantins	04/05/13 12:30

Lab Sample ID: ICIS 660-136164/19 Client Sample ID:

Date Analyzed: 04/04/13 15:19 Lab File ID: 1DD04011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.76	Split Peak	cantins	04/05/13 12:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMD5973 Analysis Batch Number: 136164

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

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

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

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

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

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

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

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

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

Lab Sample ID: LCS 660-136013/2-A Client Sample ID:

Date Analyzed: 04/04/13 20:13 Lab File ID: 1DD04023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.74	Split Peak	cantins	04/05/13 13:13

Lab Sample ID: LCSD 660-136013/3-A Client Sample ID:

Date Analyzed: 04/04/13 20:36 Lab File ID: 1DD04024.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.73	Split Peak	cantins	04/05/13 13:14

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.: 680-88766-2

SDG No.: 68088766-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0014AB-GS	680-88766-21	95
	MB 660-136063/1-A	80
	LCS 660-136063/2-A	72
CV0014AB-GS MS	680-88766-21 MS	92
CV0014AB-GS MSD	680-88766-21 MSD	97

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
032613-RB-shovel	680-88766-23	67
	MB 660-136013/1-A	78
	LCS 660-136013/2-A	72
	LCSD 660-136013/3-A	72
032613-RB-shovel MS	680-88766-23 MS	49

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Water Level: Low Lab File ID: 1DD04023.D

Lab ID: LCS 660-136013/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	7.38	74	55-132	
Acenaphthylene	10.0	7.55	76	39-130	
Anthracene	10.0	7.12	71	39-130	
Benzo[a]anthracene	10.0	7.21	72	54-135	
Benzo[a]pyrene	10.0	4.96	50	21-130	
Benzo[b]fluoranthene	10.0	5.86	59	37-130	
Benzo[g,h,i]perylene	10.0	3.51	35	26-130	
Benzo[k]fluoranthene	10.0	5.75	57	38-130	
Chrysene	10.0	7.28	73	56-130	
Dibenz(a,h)anthracene	10.0	3.33	33	13-130	
Fluoranthene	10.0	7.83	78	60-130	
Fluorene	10.0	8.04	80	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.17	32	21-130	
1-Methylnaphthalene	10.0	7.86	79	49-130	
2-Methylnaphthalene	10.0	7.57	76	48-130	
Naphthalene	10.0	7.44	74	54-133	
Phenanthrene	10.0	7.52	75	60-136	
Pyrene	10.0	7.50	75	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Solid Level: Low Lab File ID: 1CD03016.D

Lab ID: LCS 660-136063/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	458	69	39-130	
Acenaphthylene	668	488	73	38-130	
Anthracene	668	469	70	37-130	
Benzo[a]anthracene	668	484	72	40-130	
Benzo[a]pyrene	668	444	66	49-130	
Benzo[b]fluoranthene	668	516	77	37-130	
Benzo[g,h,i]perylene	668	418	63	32-130	
Benzo[k]fluoranthene	668	468	70	32-130	
Chrysene	668	462	69	41-130	
Dibenz(a,h)anthracene	668	471	71	27-130	
Fluoranthene	668	487	73	40-130	
Fluorene	668	444	66	40-130	
Indeno[1,2,3-cd]pyrene	668	399	60	30-130	
1-Methylnaphthalene	668	522	78	31-130	
2-Methylnaphthalene	668	458	69	33-130	
Naphthalene	668	484	72	36-130	
Phenanthrene	668	499	75	42-130	
Pyrene	668	516	77	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Water Level: Low Lab File ID: 1DD04024.D

Lab ID: LCSD 660-136013/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	10.0	7.35	73	0	35	55-132	
Acenaphthylene	10.0	7.42	74	2	35	39-130	
Anthracene	10.0	7.14	71	0	35	39-130	
Benzo[a]anthracene	10.0	7.19	72	0	35	54-135	
Benzo[a]pyrene	10.0	5.01	50	1	35	21-130	
Benzo[b]fluoranthene	10.0	5.92	59	1	35	37-130	
Benzo[g,h,i]perylene	10.0	3.91	39	11	35	26-130	
Benzo[k]fluoranthene	10.0	5.65	57	2	35	38-130	
Chrysene	10.0	6.91	69	5	35	56-130	
Dibenz(a,h)anthracene	10.0	3.54	35	6	35	13-130	
Fluoranthene	10.0	7.94	79	1	35	60-130	
Fluorene	10.0	7.90	79	2	35	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.59	36	12	35	21-130	
1-Methylnaphthalene	10.0	7.77	78	1	35	49-130	
2-Methylnaphthalene	10.0	7.56	76	0	35	48-130	
Naphthalene	10.0	7.36	74	1	35	54-133	
Phenanthrene	10.0	7.41	74	1	35	60-136	
Pyrene	10.0	7.46	75	0	35	60-138	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Solid Level: Low Lab File ID: 1CD03018.D

Lab ID: 680-88766-21 MS Client ID: CV0014AB-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	883	530 U	656	74	39-130	
Acenaphthylene	883	34 J	626	67	38-130	
Anthracene	883	45 U	666	75	37-130	
Benzo[a]anthracene	883	200	833	72	40-130	
Benzo[a]pyrene	883	100	650	62	49-130	
Benzo[b]fluoranthene	883	150	738	66	37-130	
Benzo[g,h,i]perylene	883	130	623	56	32-130	
Benzo[k]fluoranthene	883	79	667	67	32-130	
Chrysene	883	210	780	65	41-130	
Dibenz(a,h)anthracene	883	62 J	622	63	27-130	
Fluoranthene	883	210	697	55	40-130	
Fluorene	883	39 J	639	68	40-130	
Indeno[1,2,3-cd]pyrene	883	76 J	532	52	30-130	
1-Methylnaphthalene	883	120 J	653	60	31-130	
2-Methylnaphthalene	883	130 J	653	59	33-130	
Naphthalene	883	100 J	681	66	36-130	
Phenanthrene	883	200	690	55	42-130	
Pyrene	883	210	750	62	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Water Level: Low Lab File ID: 1CD05007.D

Lab ID: 680-88766-23 MS Client ID: 032613-RB-shovel MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	10.4	2.5 U	4.74	45	55-132	F
Acenaphthylene	10.4	1.3 U	5.18	50	39-130	
Anthracene	10.4	0.25 U	4.97	48	39-130	
Benzo[a]anthracene	10.4	0.25 U	4.72	45	54-135	F
Benzo[a]pyrene	10.4	0.25 U	2.13	20	21-130	F
Benzo[b]fluoranthene	10.4	0.25 U	2.68	26	37-130	F
Benzo[g,h,i]perylene	10.4	0.63 U	1.33	13	26-130	F
Benzo[k]fluoranthene	10.4	0.25 U	2.38	23	38-130	F
Chrysene	10.4	0.25 U	3.55	34	56-130	F
Dibenz(a,h)anthracene	10.4	0.25 U	1.12	11	13-130	F
Fluoranthene	10.4	0.63 U	5.46	52	60-130	F
Fluorene	10.4	2.5 U	4.83	46	55-140	F
Indeno[1,2,3-cd]pyrene	10.4	0.25 U	1.28	12	21-130	F
1-Methylnaphthalene	10.4	2.5 U	5.64	54	49-130	
2-Methylnaphthalene	10.4	2.5 U	4.68	45	48-130	F
Naphthalene	10.4	2.5 U	5.39	52	54-133	F
Phenanthrene	10.4	0.63 U	5.42	52	60-136	F
Pyrene	10.4	0.63 U	5.24	50	60-138	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Matrix: Solid Level: Low Lab File ID: 1CD03019.D

Lab ID: 680-88766-21 MSD Client ID: CV0014AB-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	927	669	72	2	40	39-130	
Acenaphthylene	927	686	70	9	40	38-130	
Anthracene	927	674	73	1	40	37-130	
Benzo[a]anthracene	927	856	71	3	40	40-130	
Benzo[a]pyrene	927	651	59	0	40	49-130	
Benzo[b]fluoranthene	927	710	60	4	40	37-130	
Benzo[g,h,i]perylene	927	618	53	1	40	32-130	
Benzo[k]fluoranthene	927	822	80	21	40	32-130	
Chrysene	927	739	57	5	40	41-130	
Dibenz(a,h)anthracene	927	713	70	14	40	27-130	
Fluoranthene	927	780	62	11	40	40-130	
Fluorene	927	657	67	3	40	40-130	
Indeno[1,2,3-cd]pyrene	927	659	63	21	40	30-130	
1-Methylnaphthalene	927	709	64	8	40	31-130	
2-Methylnaphthalene	927	671	58	3	40	33-130	
Naphthalene	927	648	59	5	40	36-130	
Phenanthrene	927	758	60	9	40	42-130	
Pyrene	927	878	72	16	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1DD04022.D Lab Sample ID: MB 660-136013/1-A

Matrix: Water Date Extracted: 04/02/2013 08:08

Instrument ID: BSMD5973 Date Analyzed: 04/04/2013 19:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136013/2-A	1DD04023.D	04/04/2013 20:13
	LCSD 660-136013/3-A	1DD04024.D	04/04/2013 20:36
032613-RB-shovel	680-88766-23	1CD05006.D	04/05/2013 12:54
032613-RB-shovel MS	680-88766-23 MS	1CD05007.D	04/05/2013 13:12

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1CD03015.D Lab Sample ID: MB 660-136063/1-A

Matrix: Solid Date Extracted: 04/02/2013 11:33

Instrument ID: BSMC5973 Date Analyzed: 04/03/2013 15:34

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136063/2-A	1CD03016.D	04/03/2013 15:52
CV0014AB-GS	680-88766-21	1CD03017.D	04/03/2013 16:10
CV0014AB-GS MS	680-88766-21 MS	1CD03018.D	04/03/2013 16:29
CV0014AB-GS MSD	680-88766-21 MSD	1CD03019.D	04/03/2013 16:47

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1CD02002.D DFTPP Injection Date: 04/02/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:31

Analysis Batch No.: 136048

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1CD03002.D DFTPP Injection Date: 04/03/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:28

Analysis Batch No.: 136081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	42.7	
68	Less than 2.0 % of mass 69	0.6	(1.1)1
69	Mass 69 relative abundance	49.7	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	48.1	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	19.7	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	6.9	
442	Greater than 50.0 % of mass 198	61.0	
443	15.0 - 24.0 % of mass 442	10.2	(16.7)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-136081/3	1CD03003.D	04/03/2013	11:45
	MB 660-136063/1-A	1CD03015.D	04/03/2013	15:34
	LCS 660-136063/2-A	1CD03016.D	04/03/2013	15:52
CV0014AB-GS	680-88766-21	1CD03017.D	04/03/2013	16:10
CV0014AB-GS MS	680-88766-21 MS	1CD03018.D	04/03/2013	16:29
CV0014AB-GS MSD	680-88766-21 MSD	1CD03019.D	04/03/2013	16:47

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1CD05003.D DFTPP Injection Date: 04/05/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:57

Analysis Batch No.: 136171

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.6	
68	Less than 2.0 % of mass 69	0.8	(1.4)1
69	Mass 69 relative abundance	55.3	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	10.0 - 80.0 % of mass 198	49.0	
197	Less than 2.0 % of mass 198	0.6	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	19.3	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	7.6	
442	Greater than 50.0 % of mass 198	55.6	
443	15.0 - 24.0 % of mass 442	11.7	(21.0)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 660-136171/4	1CD05004.D	04/05/2013	12:15
032613-RB-shovel	680-88766-23	1CD05006.D	04/05/2013	12:54
032613-RB-shovel MS	680-88766-23 MS	1CD05007.D	04/05/2013	13:12

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab File ID: 1DD04003.D DFTPP Injection Date: 04/04/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 12:15

Analysis Batch No.: 136164

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.9	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	45.4	
70	Less than 2.0 % of mass 69	0.2	(0.3)1
127	10.0 - 80.0 % of mass 198	50.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	26.7	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	3.3	
442	Greater than 50.0 % of mass 198	67.1	
443	15.0 - 24.0 % of mass 442	13.9	(20.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136164/15	1DD04007.D	04/04/2013	13:49
	IC 660-136164/16	1DD04008.D	04/04/2013	14:11
	IC 660-136164/17	1DD04009.D	04/04/2013	14:34
	IC 660-136164/18	1DD04010.D	04/04/2013	14:57
	ICIS 660-136164/19	1DD04011.D	04/04/2013	15:19
	IC 660-136164/20	1DD04012.D	04/04/2013	15:42
	IC 660-136164/21	1DD04013.D	04/04/2013	16:04
	ICV 660-136164/22	1DD04014.D	04/04/2013	16:27
	MB 660-136013/1-A	1DD04022.D	04/04/2013	19:51
	LCS 660-136013/2-A	1DD04023.D	04/04/2013	20:13
	LCSD 660-136013/3-A	1DD04024.D	04/04/2013	20:36

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

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

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: ICIS 660-136048/9 Date Analyzed: 04/02/2013 14:39

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

Lab File ID (Standard): 1CD02009.D Heated Purge: (Y/N) N

Calibration ID: 2859

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

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45

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

Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		500765	3.70	364027	4.79	687020	5.74
UPPER LIMIT		1001530	4.20	728054	5.29	1374040	6.24
LOWER LIMIT		250383	3.20	182014	4.29	343510	5.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136063/1-A		646271	3.71	483289	4.80	879169	5.75
LCS 660-136063/2-A		631468	3.71	487717	4.79	877192	5.74
680-88766-21	CV0014AB-GS	582428	3.71	437660	4.79	782573	5.74
680-88766-21 MS	CV0014AB-GS MS	604618	3.71	447317	4.79	819020	5.74
680-88766-21 MSD	CV0014AB-GS MSD	599290	3.71	437990	4.79	801261	5.74

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: CCVIS 660-136081/3 Date Analyzed: 04/03/2013 11:45

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

Lab File ID (Standard): 1CD03003.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		857573	7.68	866012	8.85		
UPPER LIMIT		1715146	8.18	1732024	9.35		
LOWER LIMIT		428787	7.18	433006	8.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136063/1-A		990236	7.68	958431	8.86		
LCS 660-136063/2-A		995572	7.68	964341	8.85		
680-88766-21	CV0014AB-GS	873422	7.68	855093	8.86		
680-88766-21 MS	CV0014AB-GS MS	882360	7.68	885344	8.85		
680-88766-21 MSD	CV0014AB-GS MSD	885431	7.68	855561	8.85		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15

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

Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N

Calibration ID: 2859

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		392528	3.69	289150	4.78	539578	5.72
UPPER LIMIT		785056	4.19	578300	5.28	1079156	6.22
LOWER LIMIT		196264	3.19	144575	4.28	269789	5.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88766-23	032613-RB-shovel	397216	3.69	288931	4.77	552053	5.72
680-88766-23 MS	032613-RB-shovel MS	411549	3.69	313598	4.77	608819	5.72

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: CCVIS 660-136171/4 Date Analyzed: 04/05/2013 12:15

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

Lab File ID (Standard): 1CD05004.D Heated Purge: (Y/N) N

Calibration ID: 2859

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		739705	7.66	746693	8.83		
UPPER LIMIT		1479410	8.16	1493386	9.33		
LOWER LIMIT		369853	7.16	373347	8.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-88766-23	032613-RB-shovel	730677	7.66	752862	8.82		
680-88766-23 MS	032613-RB-shovel MS	752169	7.66	802662	8.82		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2475113	6.09	1466924	7.77	2428512	9.03
UPPER LIMIT		4950226	6.59	2933848	8.27	4857024	9.53
LOWER LIMIT		1237557	5.59	733462	7.27	1214256	8.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3619899	6.10	2333423	7.77	3845474	9.03
MB 660-136013/1-A		2711590	6.09	1656380	7.77	2762536	9.03
LCS 660-136013/2-A		2684140	6.09	1602441	7.77	2731968	9.03
LCSD 660-136013/3-A		2700850	6.09	1619728	7.77	2719610	9.03

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Sample No.: ICIS 660-136164/19 Date Analyzed: 04/04/2013 15:19

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

Lab File ID (Standard): 1DD04011.D Heated Purge: (Y/N) N

Calibration ID: 2874

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2464730	11.34	2515643	13.17		
UPPER LIMIT		4929460	11.84	5031286	13.67		
LOWER LIMIT		1232365	10.84	1257822	12.67		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-136164/22		3963674	11.35	3958481	13.18		
MB 660-136013/1-A		2767376	11.34	2802105	13.17		
LCS 660-136013/2-A		2730920	11.34	2751843	13.17		
LCSD 660-136013/3-A		2765140	11.34	2782071	13.17		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: CV0014AB-GS | Lab Sample ID: 680-88766-21

Matrix: Solid | Lab File ID: 1CD03017.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 15:18

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 15.25(g) | Date Analyzed: 04/03/2013 16:10

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

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

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	34	J	210	27
120-12-7	Anthracene	45	U	45	22
56-55-3	Benzo[a]anthracene	200		43	21
50-32-8	Benzo[a]pyrene	100		55	28
205-99-2	Benzo[b]fluoranthene	150		65	32
191-24-2	Benzo[g,h,i]perylene	130		110	23
207-08-9	Benzo[k]fluoranthene	79		43	19
218-01-9	Chrysene	210		48	24
53-70-3	Dibenz(a,h)anthracene	62	J	110	22
206-44-0	Fluoranthene	210		110	21
86-73-7	Fluorene	39	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	76	J	110	38
90-12-0	1-Methylnaphthalene	120	J	210	23
91-57-6	2-Methylnaphthalene	130	J	210	38
91-20-3	Naphthalene	100	J	210	23
85-01-8	Phenanthrene	200		43	21
129-00-0	Pyrene	210		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03017.D
Lab Smp Id: 680-88766-A-21-D Client Smp ID: CV0014AB-GS
Inj Date : 03-APR-2013 16:10
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-21-d
Misc Info : 680-88766-A-21-D
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 17
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	26.115	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	582428	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	437660	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	782573	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	21143	2.38061	845.1223
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	873422	40.0000	
* 23 Perylene-d12	264	8.856	8.851	(1.000)	855093	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	4269	0.28537	101.3070(Q)
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	3722	0.36550	129.7549
4 1-Methylnaphthalene	142	4.204	4.210	(1.133)	3101	0.33843	120.1436
5 Acenaphthylene	152	4.710	4.704	(0.983)	1749	0.09656	34.2779(Q)
9 Fluorene	166	5.133	5.133	(1.071)	1631	0.10905	38.7139
11 Phenanthrene	178	5.757	5.757	(1.003)	13094	0.57450	203.9476
13 Carbazole	167	5.904	5.898	(1.029)	1637	0.08270	29.3583(Q)
15 Fluoranthene	202	6.586	6.592	(1.148)	14763	0.58651	208.2114

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.757	6.757	(0.880)	14060	0.58112	206.3009
17 Benzo(a)anthracene	228	7.674	7.668	(0.999)	10878	0.56546	200.7412
19 Chrysene	228	7.698	7.698	(1.002)	14637	0.58810	208.7764
20 Benzo(b)fluoranthene	252	8.515	8.509	(0.961)	10463	0.43282	153.6511
21 Benzo(k)fluoranthene	252	8.539	8.533	(0.964)	5203	0.22253	78.9998(Q)
22 Benzo(a)pyrene	252	8.798	8.798	(0.993)	6701	0.29443	104.5224(Q)
24 Indeno(1,2,3-cd)pyrene	276	9.998	9.992	(1.129)	4605	0.21303	75.6245(M)
25 Dibenzo(a,h)anthracene	278	10.015	10.009	(1.131)	3484	0.17447	61.9370(M)
26 Benzo(g,h,i)perylene	276	10.345	10.339	(1.168)	7927	0.35929	127.5493(M)

QC Flag Legend

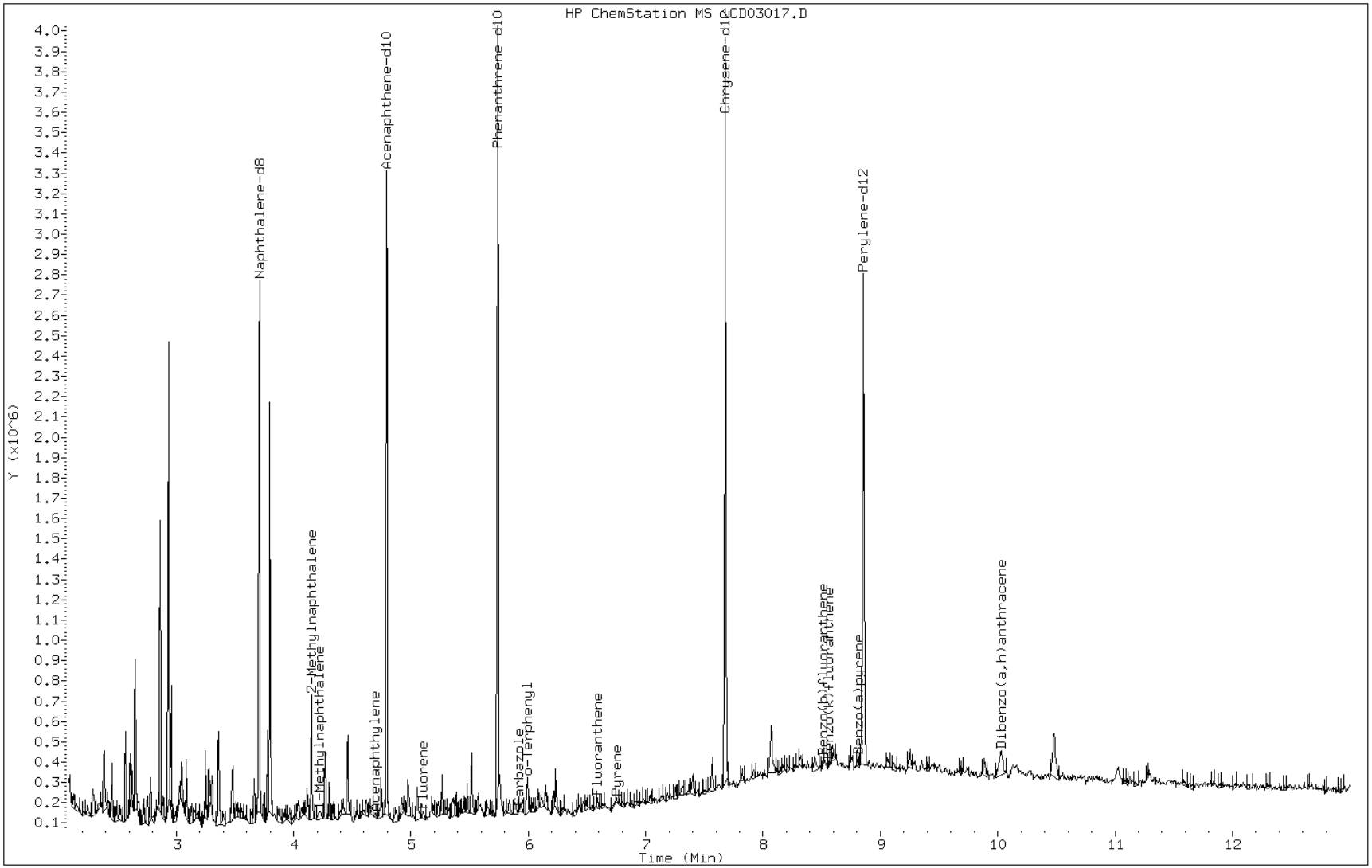
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC



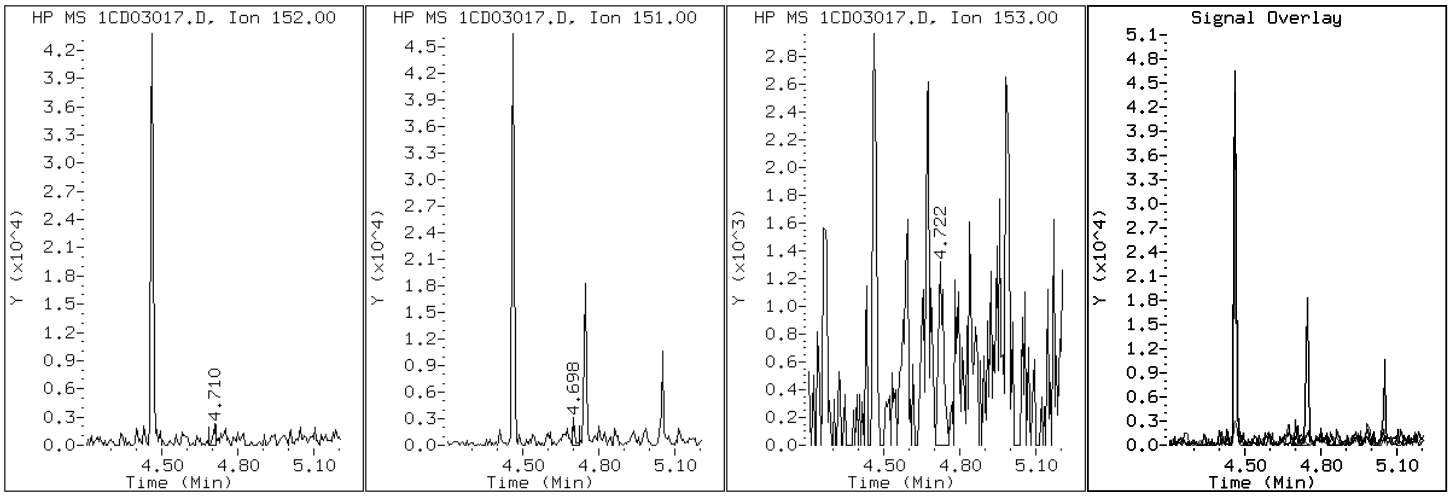
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

5 Acenaphthylene



Data File: 1CD03017.D

Date: 03-APR-2013 16:10

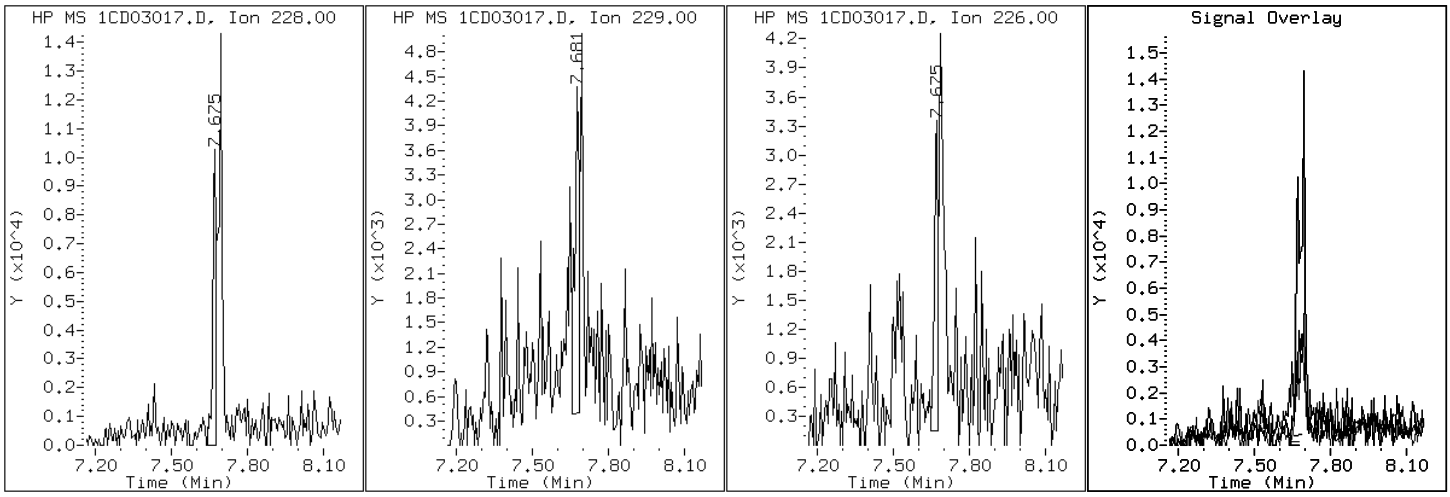
Client ID: CV0014AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d

Operator: SCC

17 Benzo(a)anthracene



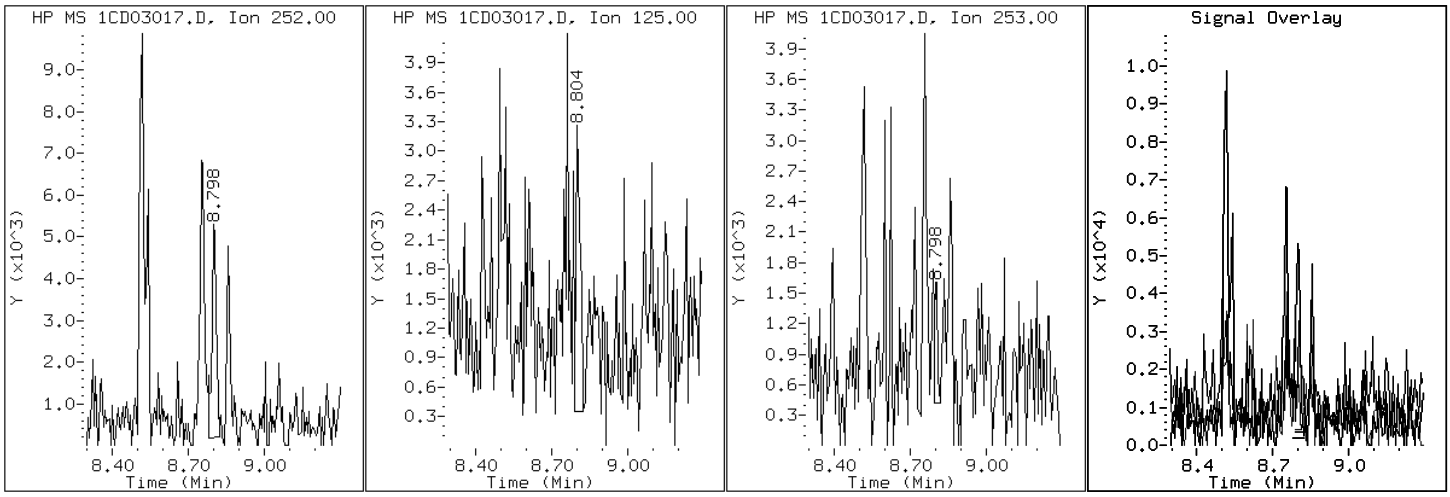
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

22 Benzo(a)pyrene



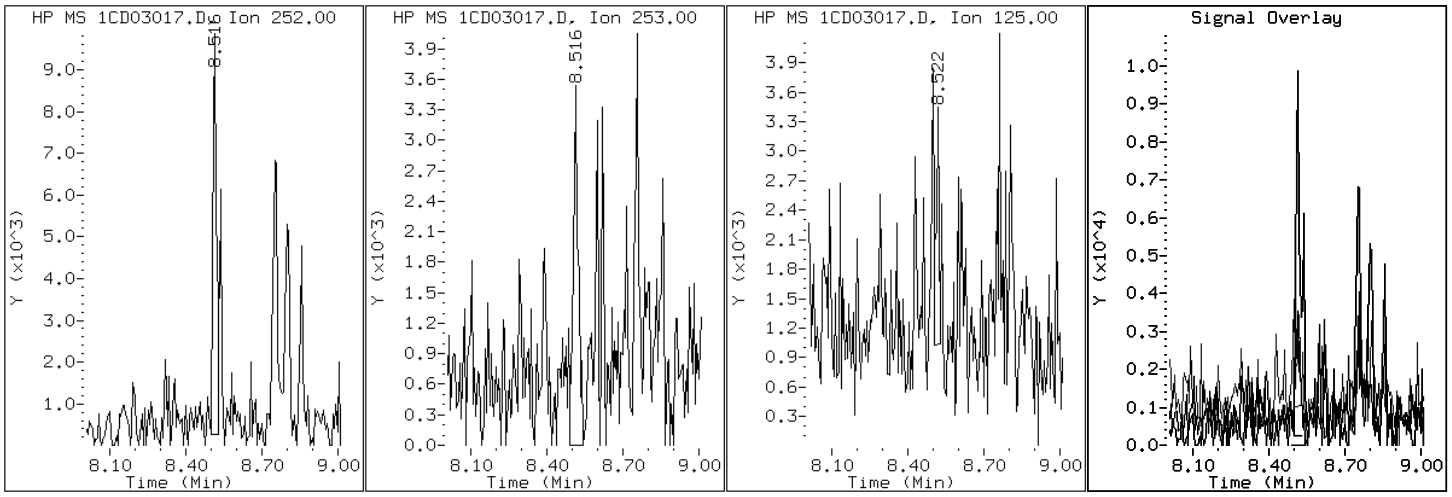
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CD03017.D

Date: 03-APR-2013 16:10

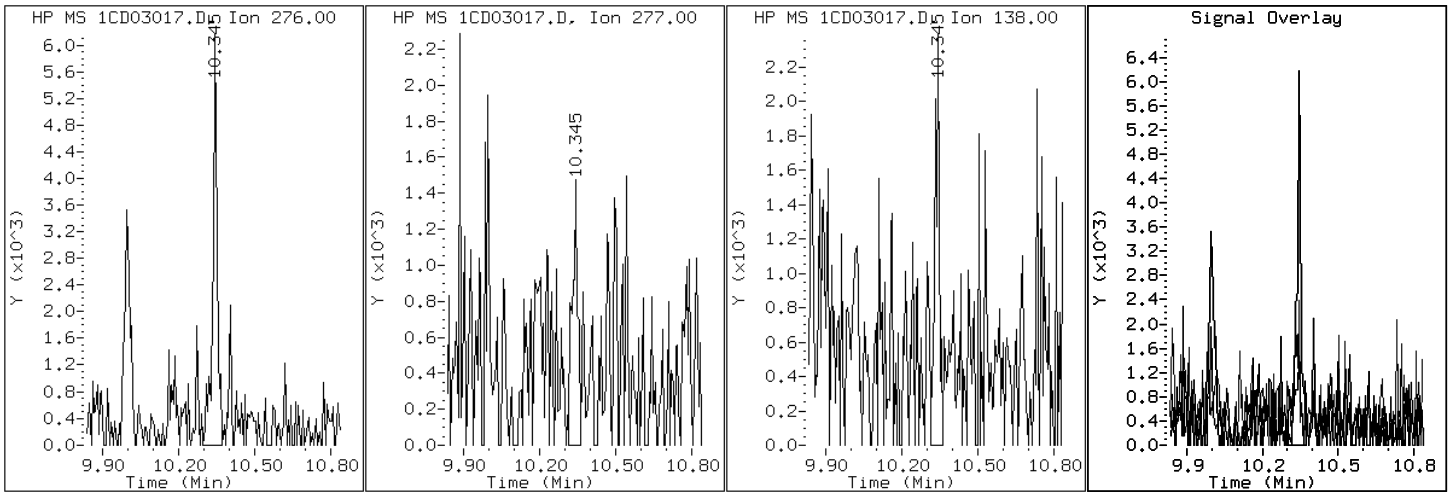
Client ID: CV0014AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d

Operator: SCC

26 Benzo(g,h,i)perylene



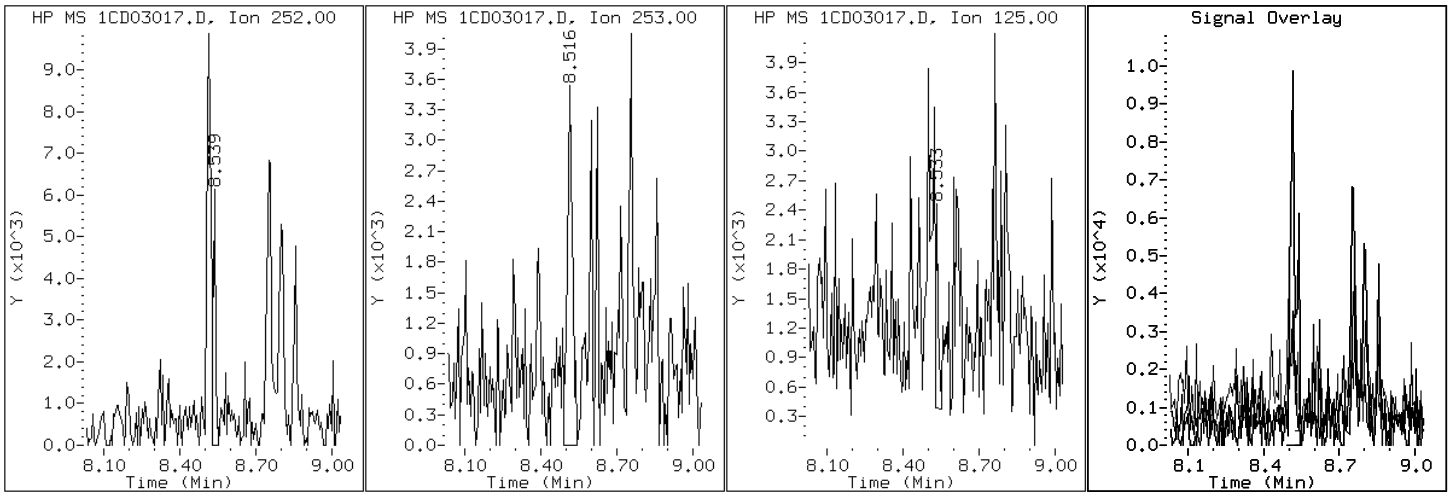
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

21 Benzo(k)fluoranthene



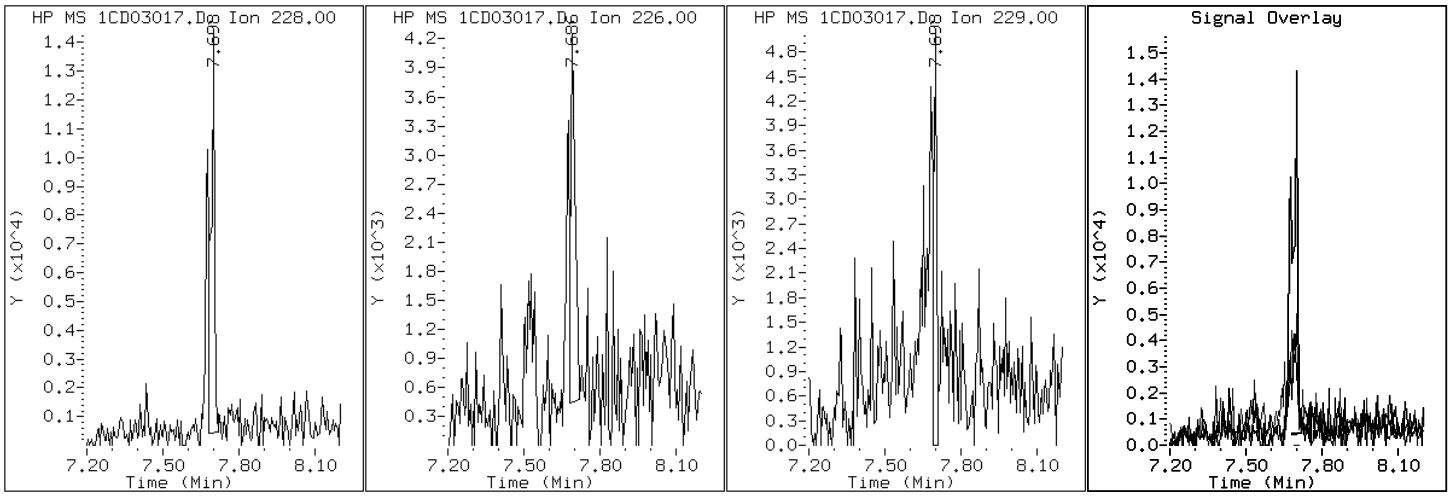
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

19 Chrysene



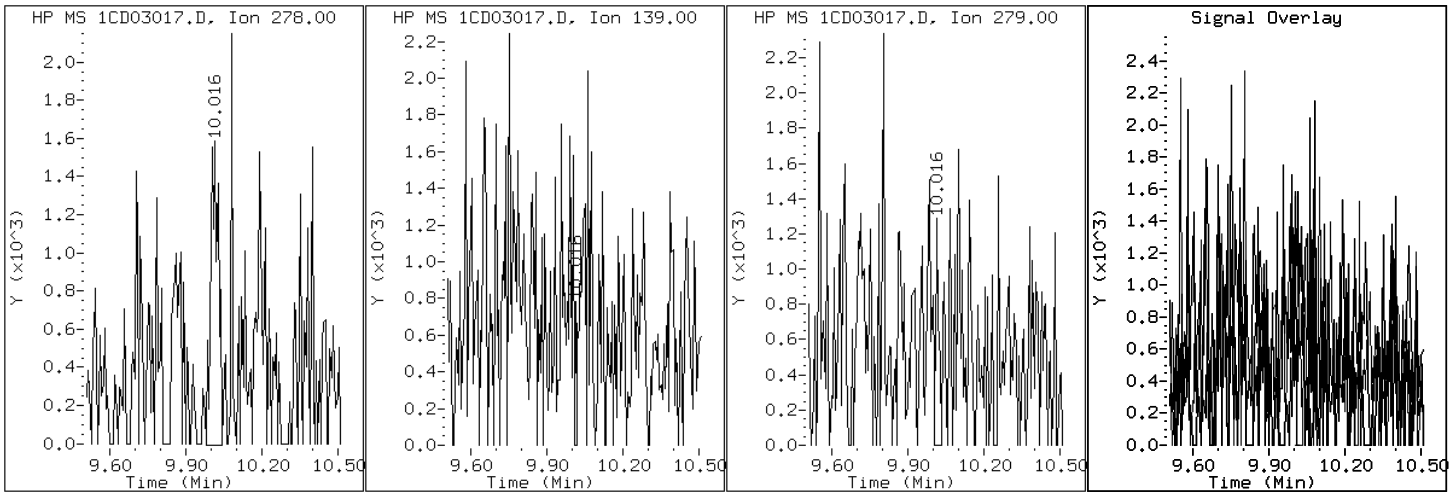
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CD03017.D

Date: 03-APR-2013 16:10

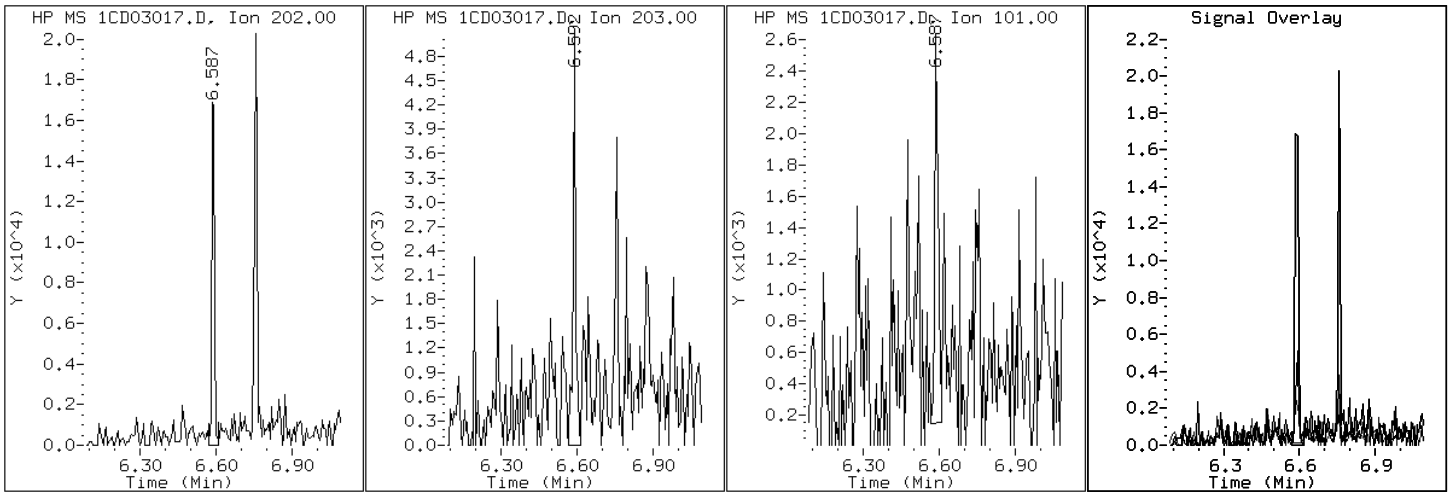
Client ID: CV0014AB-GS

Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d

Operator: SCC

15 Fluoranthene



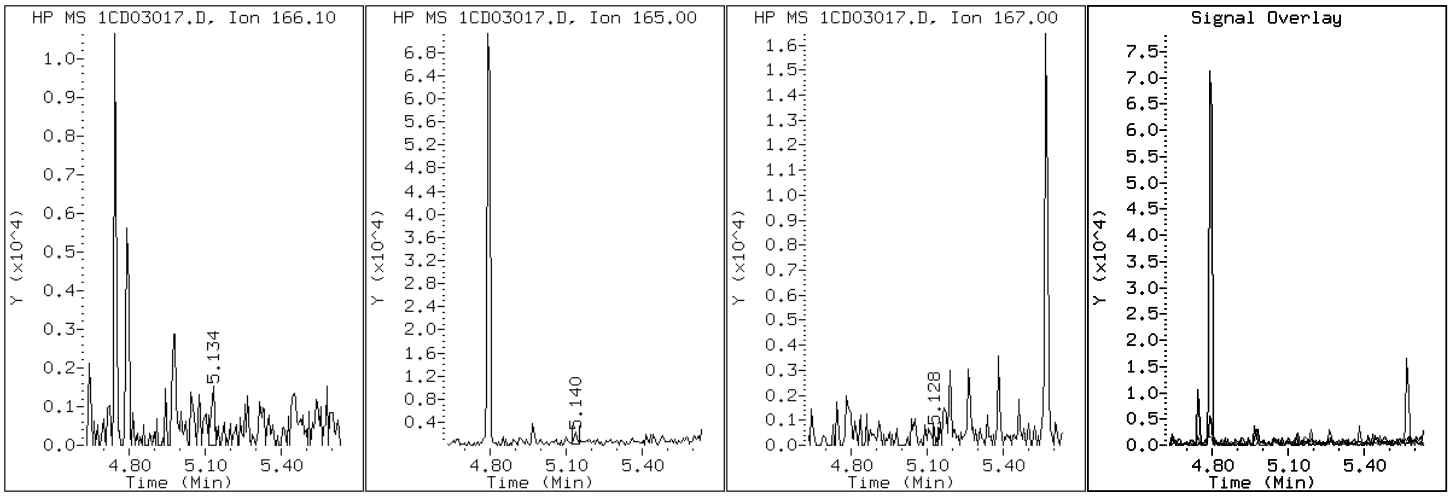
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

9 Fluorene



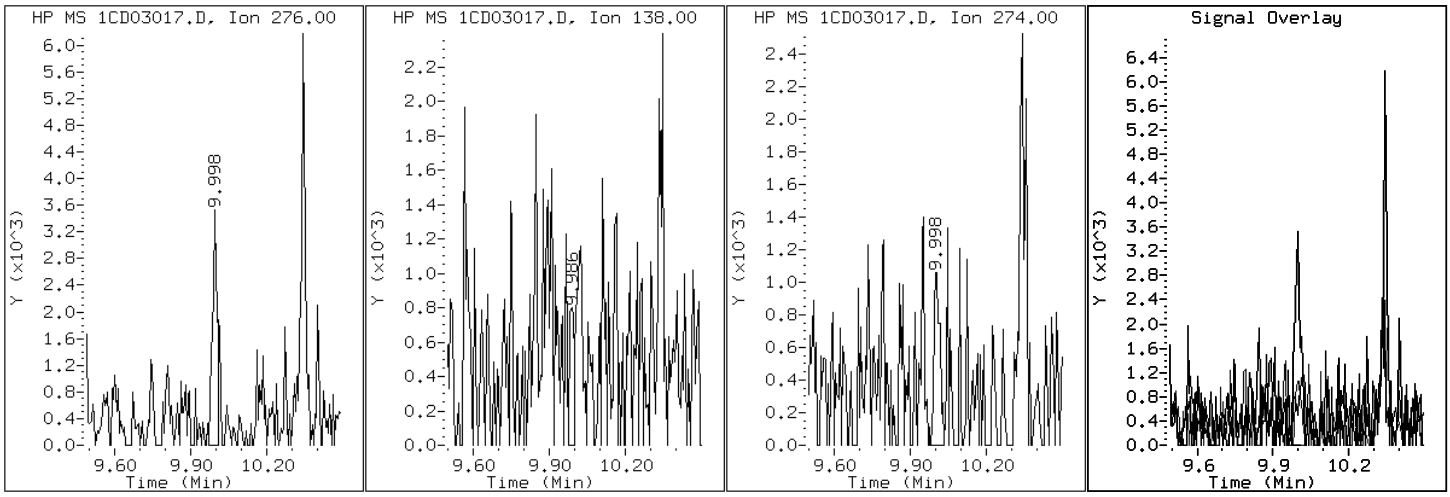
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS | Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d | Operator: SCC

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



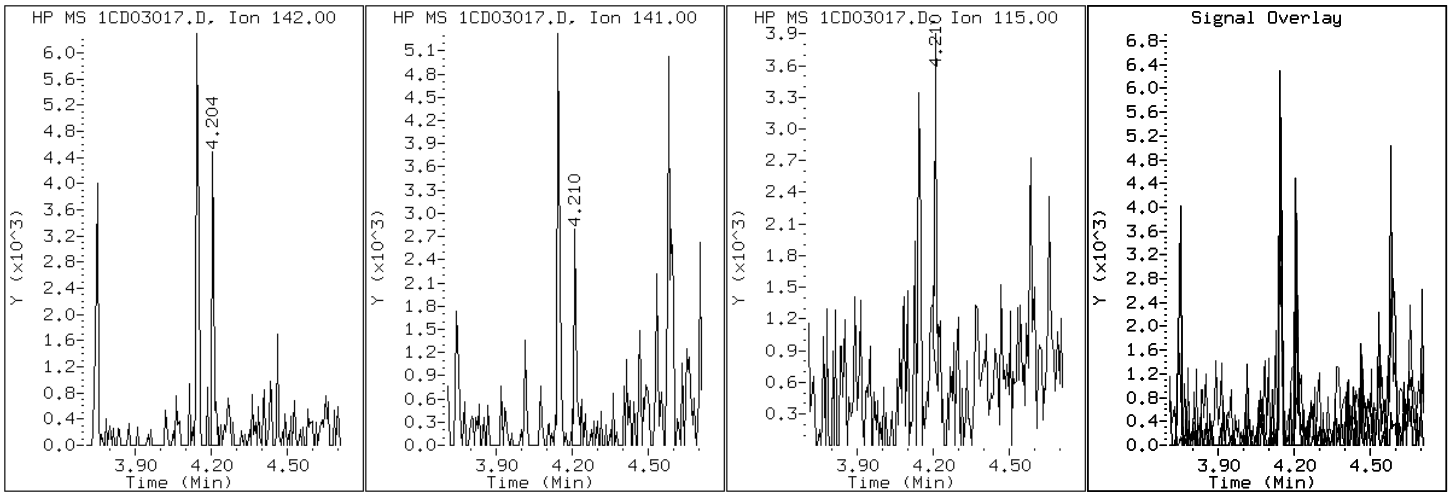
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

4 1-Methylnaphthalene



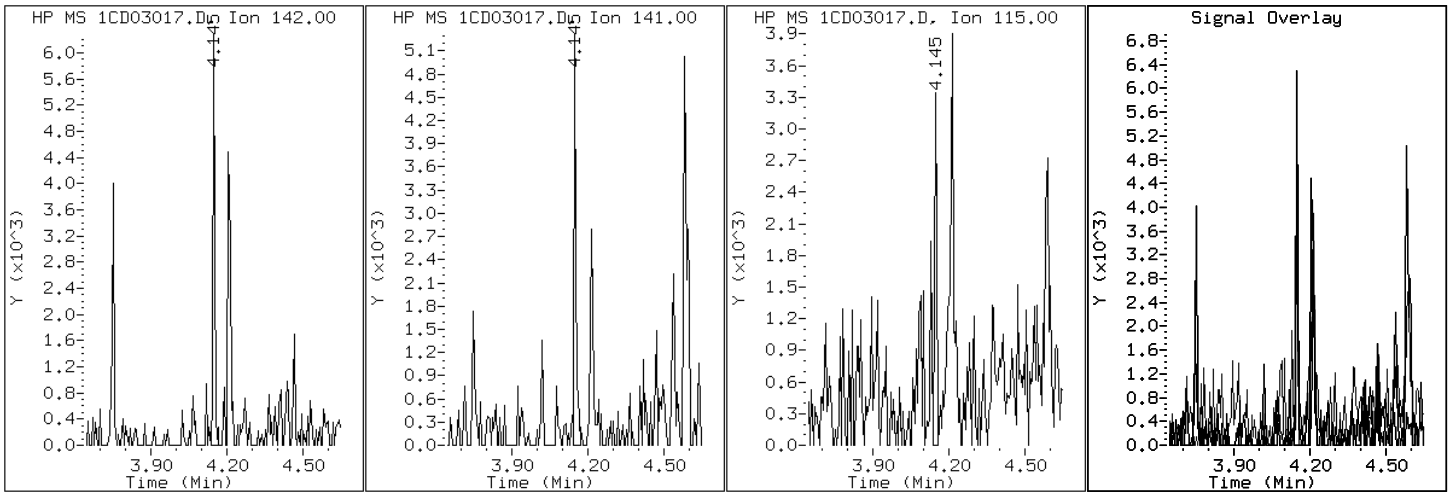
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

3 2-Methylnaphthalene



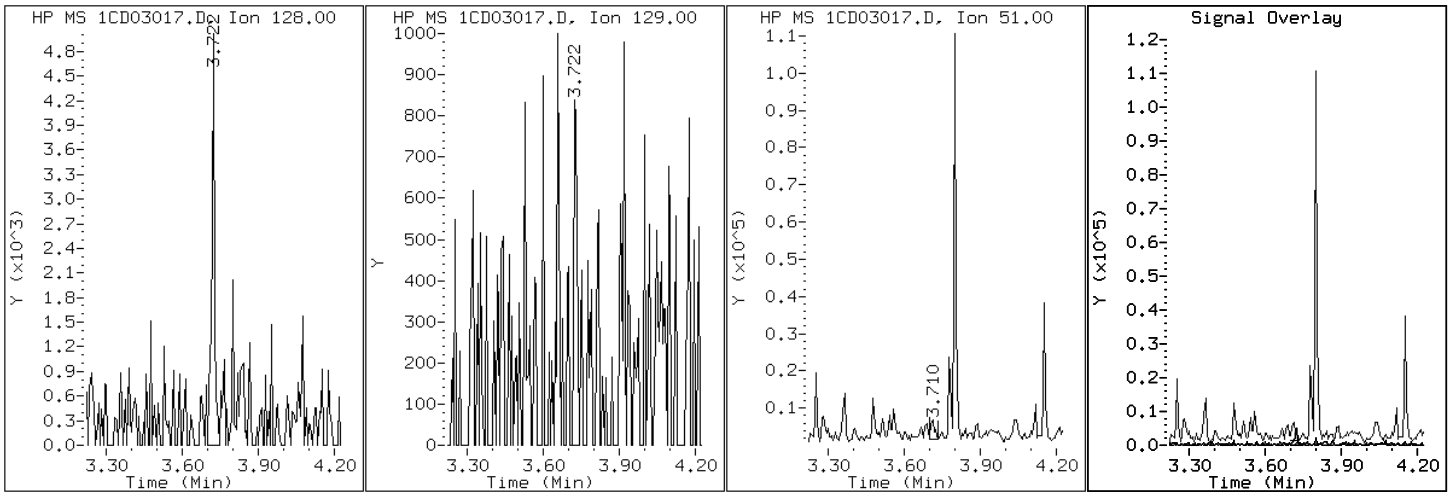
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

2 Naphthalene



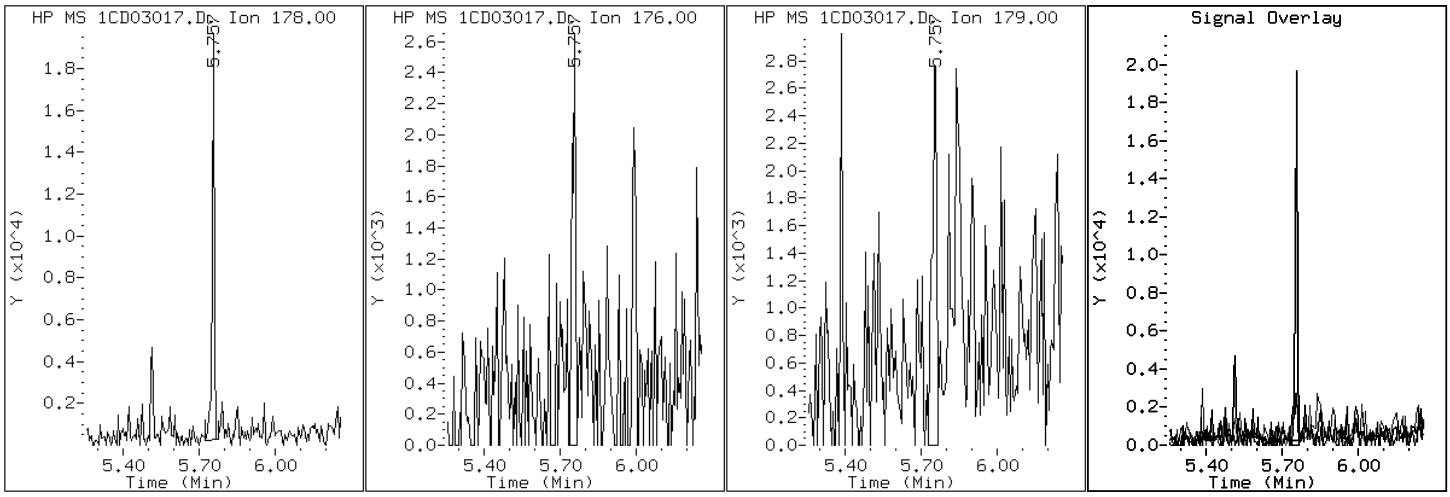
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS | Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d | Operator: SCC

11 Phenanthrene



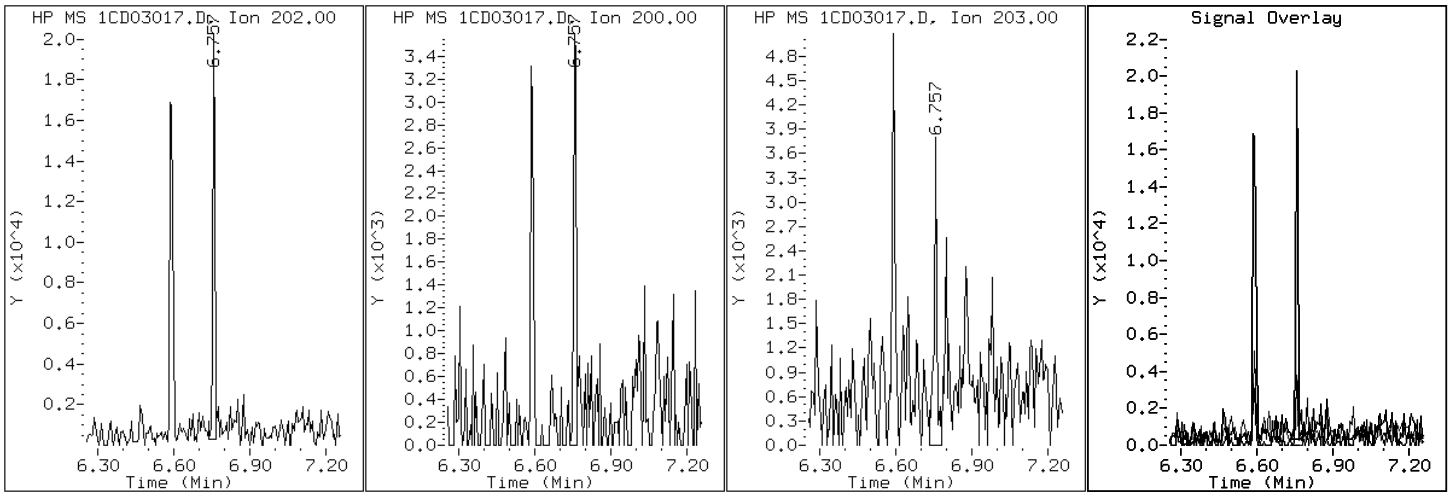
Data File: 1CD03017.D

Date: 03-APR-2013 16:10

Client ID: CV0014AB-GS Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-d Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CD03017.D
Inj. Date and Time: 03-APR-2013 16:10
Instrument ID: BSMC5973.i
Client ID: CV0014AB-GS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/04/2013

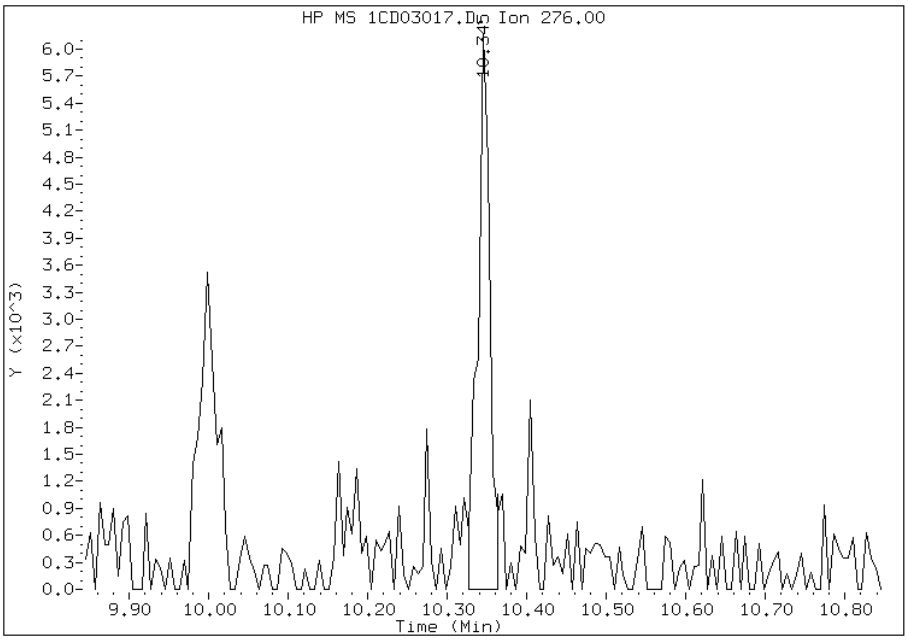
Processing Integration Results

RT: 10.35

Response: 6565

Amount: 0

Conc: 106



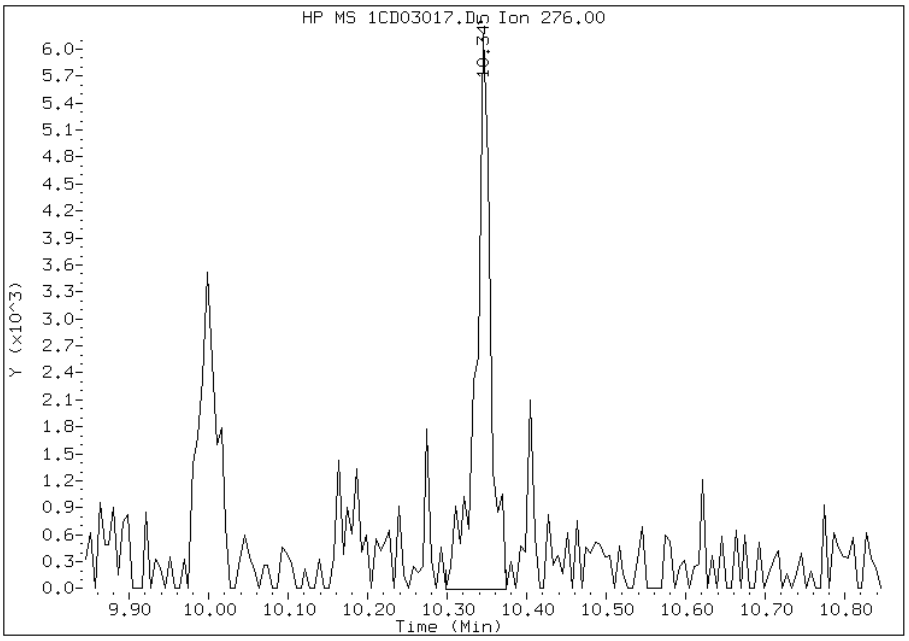
Manual Integration Results

RT: 10.35

Response: 7927

Amount: 0

Conc: 128



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03017.D
Inj. Date and Time: 03-APR-2013 16:10
Instrument ID: BSMC5973.i
Client ID: CV0014AB-GS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/04/2013

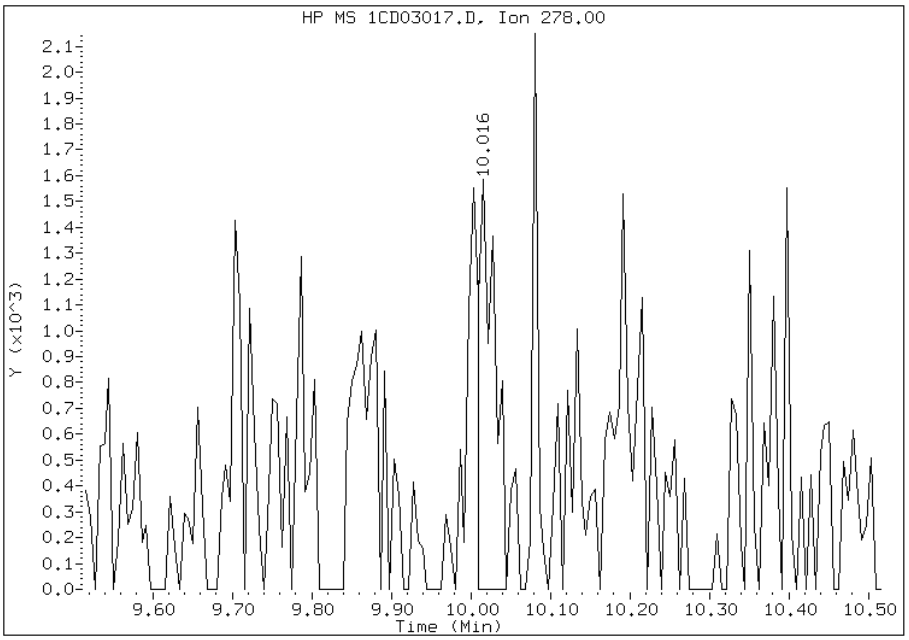
Processing Integration Results

RT: 10.02

Response: 2258

Amount: 0

Conc: 40



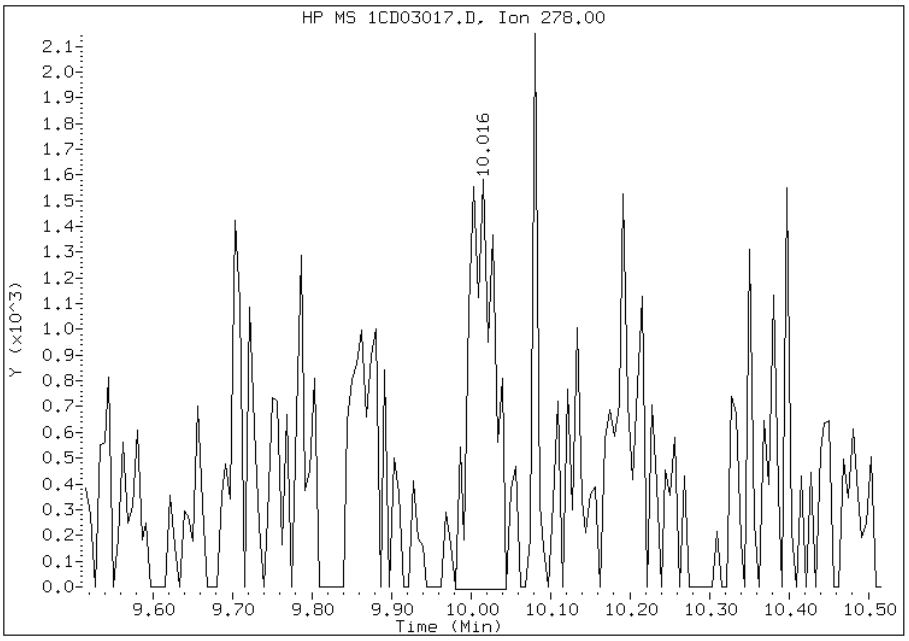
Manual Integration Results

RT: 10.02

Response: 3484

Amount: 0

Conc: 62



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03017.D
Inj. Date and Time: 03-APR-2013 16:10
Instrument ID: BSMC5973.i
Client ID: CV0014AB-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

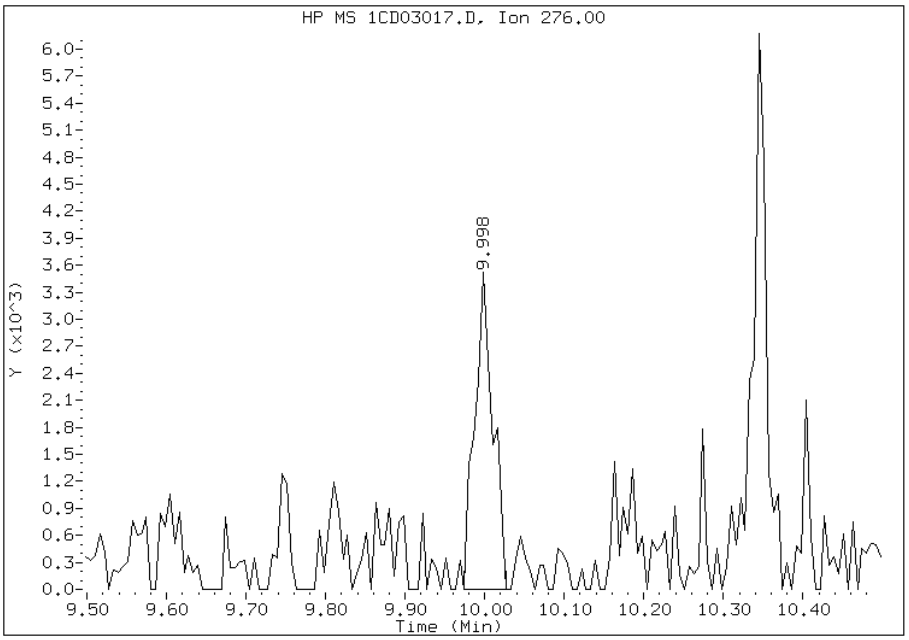
Processing Integration Results

RT: 10.00

Response: 5487

Amount: 0

Conc: 90



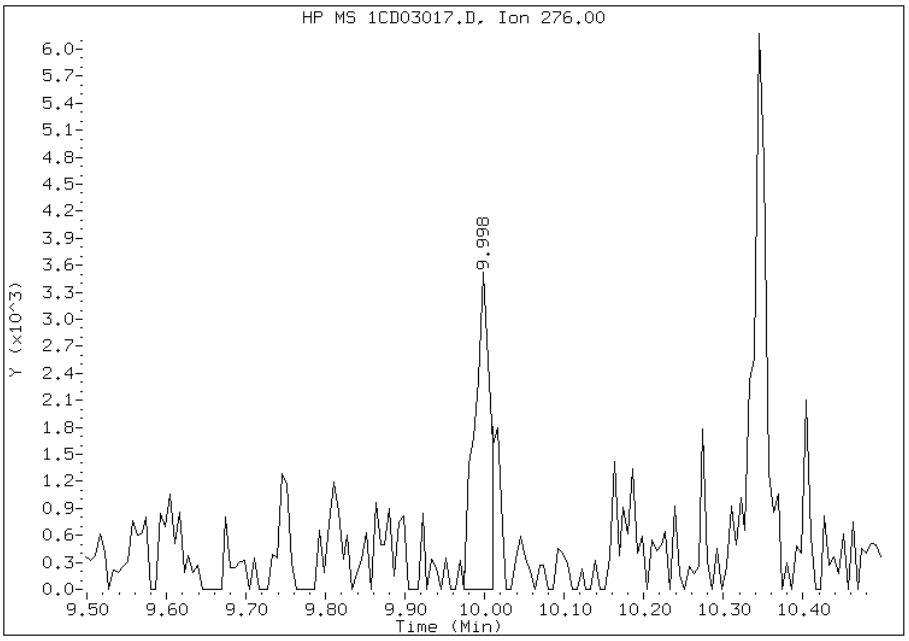
Manual Integration Results

RT: 10.00

Response: 4605

Amount: 0

Conc: 76



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: 032613-RB-shovel | Lab Sample ID: 680-88766-23

Matrix: Water | Lab File ID: 1CD05006.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 13:00

Extract. Method: 3520C | Date Extracted: 04/02/2013 08:08

Sample wt/vol: 800(mL) | Date Analyzed: 04/05/2013 12:54

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.: 136171 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.5	U F	2.5	0.63
208-96-8	Acenaphthylene	1.3	U	1.3	0.31
120-12-7	Anthracene	0.25	U	0.25	0.095
56-55-3	Benzo[a]anthracene	0.25	U F	0.25	0.063
50-32-8	Benzo[a]pyrene	0.25	U F	0.25	0.071
205-99-2	Benzo[b]fluoranthene	0.25	U F	0.25	0.063
191-24-2	Benzo[g,h,i]perylene	0.63	U F	0.63	0.13
207-08-9	Benzo[k]fluoranthene	0.25	U F	0.25	0.071
218-01-9	Chrysene	0.25	U F	0.25	0.086
53-70-3	Dibenz(a,h)anthracene	0.25	U F	0.25	0.063
206-44-0	Fluoranthene	0.63	U F	0.63	0.068
86-73-7	Fluorene	2.5	U F	2.5	0.63
193-39-5	Indeno[1,2,3-cd]pyrene	0.25	U F	0.25	0.063
90-12-0	1-Methylnaphthalene	2.5	U	2.5	0.63
91-57-6	2-Methylnaphthalene	2.5	U F	2.5	0.63
91-20-3	Naphthalene	2.5	U F	2.5	0.31
85-01-8	Phenanthrene	0.63	U F	0.63	0.25
129-00-0	Pyrene	0.63	U F	0.63	0.11

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05006.D
Lab Smp Id: 680-88766-A-23-A Client Smp ID: 032613-RB-shovel
Inj Date : 05-APR-2013 12:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-A-23-A
Misc Info : 680-88766-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5
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	800.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	397216	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.780	(1.000)	288931	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	552053	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	54191	6.73936	8.4242
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	730677	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	752862	40.0000	

Data File: 1CD05006.D

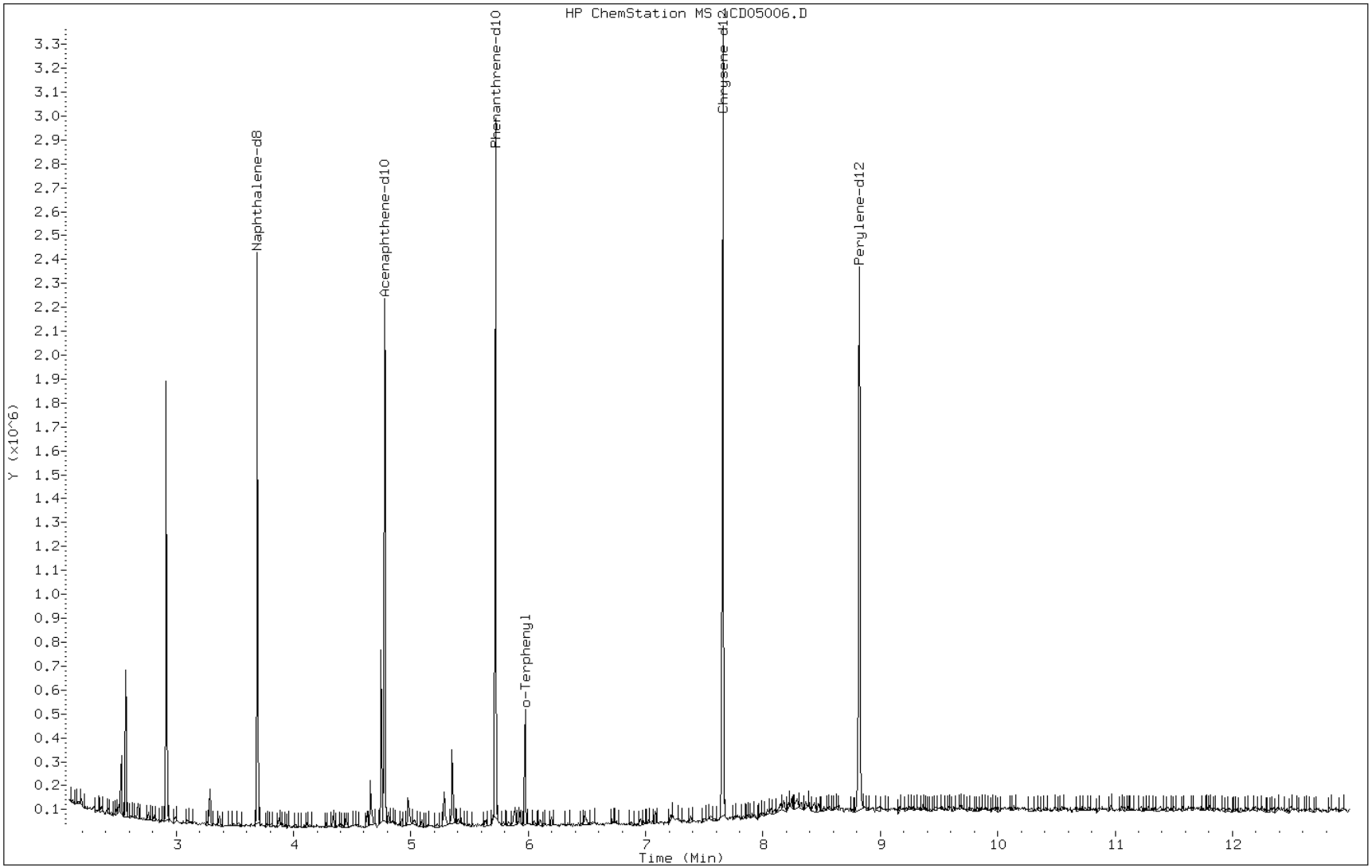
Date: 05-APR-2013 12:54

Client ID: 032613-RB-shovel

Instrument: BSMC5973.i

Sample Info: 680-88766-A-23-A

Operator: SCC



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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136048

SDG No.: 68088766-2

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

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

Calibration Files:

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136048

SDG No.: 68088766-2

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

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

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136048

SDG No.: 68088766-2

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

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

Calibration Files:

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	2264 350333	10440 668649	65815	121970	253190	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	1726 228375	7695 447751	39376	89978	158694	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	1649 221182	5100 419135	37056	73198	163647	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	2387 423924	12563 814053	70473	148174	308909	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Lin	1338 244735	10900 480392	39421	84460	191043	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	2130 331328	11990 638557	58298	114648	243174	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	3900 529536	16838 1077014	88442	194036	392252	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3761 557837	16401 1098599	90016	200131	408192	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	2871 488550	13272 948101	83549	167822	376402	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	3316 607836	17746 1248081	105772	224705	468708	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4087 663294	20532 1360548	109963	236267	498076	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin	7657 659379	24413 1380443	110756	250220	491852	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	3963 659226	22752 1377767	118460	247512	494376	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	5890 671785	19731 1443812	127315	261073	494109	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4185 719552	22203 1396501	121957	258924	517620	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136048

SDG No.: 68088766-2

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

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	5100 655944	20343 1403971	112782	240110	482722	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	5188 655344	19198 1242391	114519	222795	412839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3872 600720	19937 1194691	97409	216036	435940	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4492 675124	20561 1270187	117403	233308	470085	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Lin	2496 275212	7501 587824	45027	103309	211673	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02005.D
Lab Smp Id: IC1
Inj Date : 02-APR-2013 13:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC1
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	455021	40.0000	
* 6 Acenaphthene-d10	164	4.804	4.804	(1.000)	332800	40.0000	
* 10 Phenanthrene-d10	188	5.757	5.757	(1.000)	611597	40.0000	
$ 14 o-Terphenyl	230	6.004	6.004	(1.043)	2496	0.20000	0.2618
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	781900	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	841000	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	2264	0.20000	0.1937
3 2-Methylnaphthalene	142	4.157	4.157	(1.120)	1726	0.20000	0.2169
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	1649	0.20000	0.2303
5 Acenaphthylene	152	4.716	4.716	(0.982)	2387	0.20000	0.1733
7 Acenaphthene	154	4.821	4.821	(1.004)	1338	0.20000	0.1568(Q)
9 Fluorene	166	5.145	5.145	(1.071)	2130	0.20000	0.1872
11 Phenanthrene	178	5.768	5.768	(1.002)	3900	0.20000	0.2189
12 Anthracene	178	5.804	5.804	(1.008)	3761	0.20000	0.2082
13 Carbazole	167	5.915	5.915	(1.028)	2871	0.20000	0.1855
15 Fluoranthene	202	6.604	6.604	(1.147)	3316	0.20000	0.1685
16 Pyrene	202	6.774	6.774	(0.879)	4087	0.20000	0.1886
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	7657	0.20000	0.3066
19 Chrysene	228	7.727	7.727	(1.003)	3963	0.20000	0.1778
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	5890	0.20000	0.2477(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	4185	0.20000	0.1819(H)
22 Benzo(a)pyrene	252	8.851	8.851	(0.993)	5100	0.20000	0.2278(H)
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.062	(1.129)	5188	0.20000	0.2440
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.132)	3872	0.20000	0.1971(MH)
26 Benzo(g,h,i)perylene	276	10.415	10.415	(1.169)	4492	0.20000	0.2070(H)

QC Flag Legend

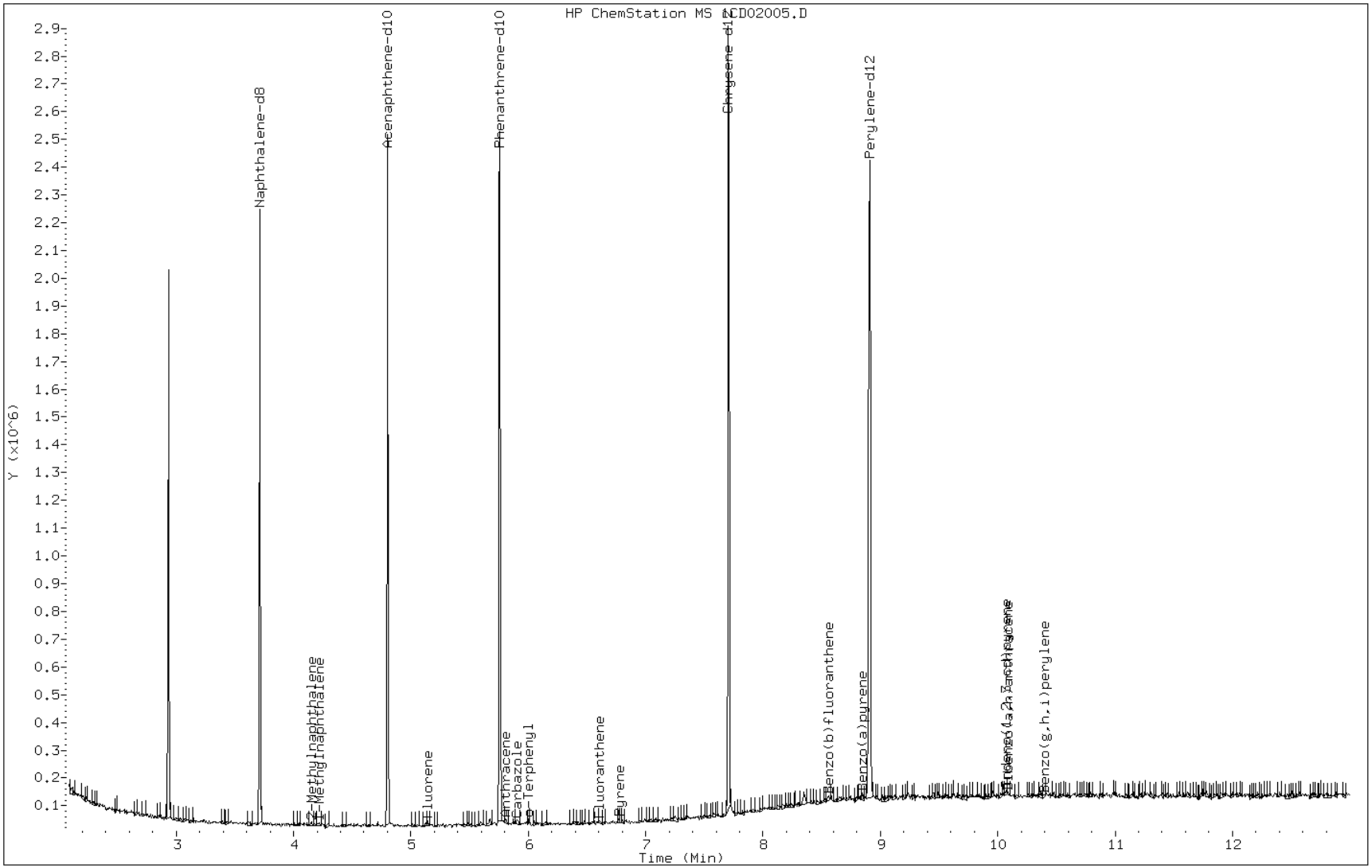
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02005.D

Date: 02-APR-2013 13:26

Client ID: Instrument: BSMC5973.i

Sample Info: IC1 Operator: SCC



Manual Integration Report

Data File: 1CD02005.D
Inj. Date and Time: 02-APR-2013 13:26
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/02/2013

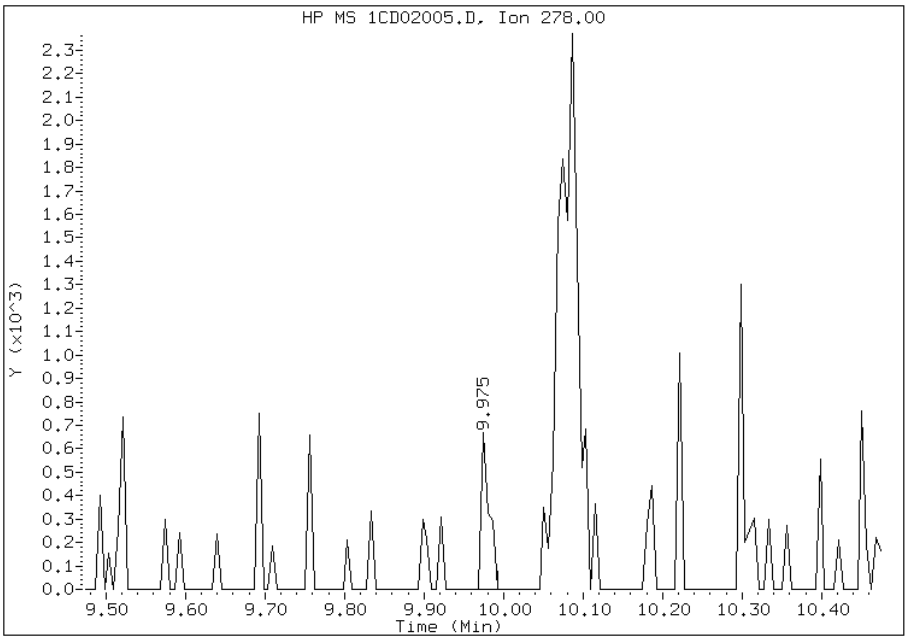
Processing Integration Results

RT: 9.97

Response: 454

Amount: 0

Conc: 0



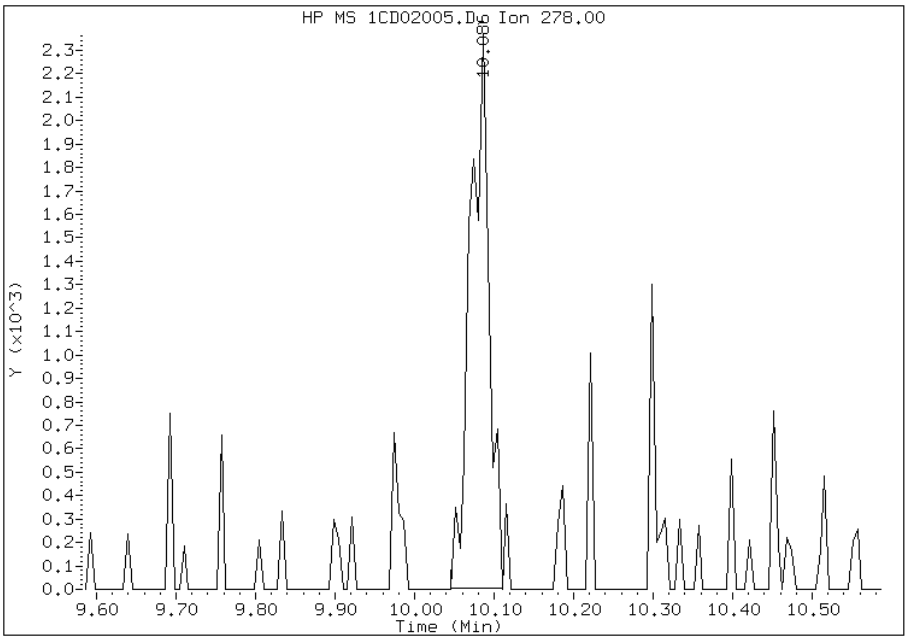
Manual Integration Results

RT: 10.09

Response: 3872

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:44
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02006.D
Lab Smp Id: IC2
Inj Date : 02-APR-2013 13:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC2
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:26 Cal File: 1CD02005.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	451517	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	318036	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	591987	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	7501	1.00000	0.8130
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	750291	40.0000	(H)
* 23 Perylene-d12	264	8.862	8.862	(1.000)	848618	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	10440	1.00000	0.9002
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	7695	1.00000	0.9747
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	5100	1.00000	0.7179(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	12563	1.00000	0.9544
7 Acenaphthene	154	4.821	4.821	(1.005)	10900	1.00000	1.3375(Q)
9 Fluorene	166	5.139	5.139	(1.071)	11990	1.00000	1.1032
11 Phenanthrene	178	5.762	5.762	(1.003)	16838	1.00000	0.9766
12 Anthracene	178	5.798	5.798	(1.009)	16401	1.00000	0.9383
13 Carbazole	167	5.904	5.904	(1.028)	13272	1.00000	0.8863
15 Fluoranthene	202	6.598	6.598	(1.148)	17746	1.00000	0.9319
16 Pyrene	202	6.762	6.762	(0.880)	20532	1.00000	0.9878(H)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	24413	1.00000	1.0187(H)
19 Chrysene	228	7.704	7.704	(1.002)	22752	1.00000	1.0641
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	19731	1.00000	0.8224(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	22203	1.00000	0.9568(H)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	20343	1.00000	0.9006(H)
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	19198	1.00000	0.8948(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.131)	19937	1.00000	1.0060(H)
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	20561	1.00000	0.9390(H)

QC Flag Legend

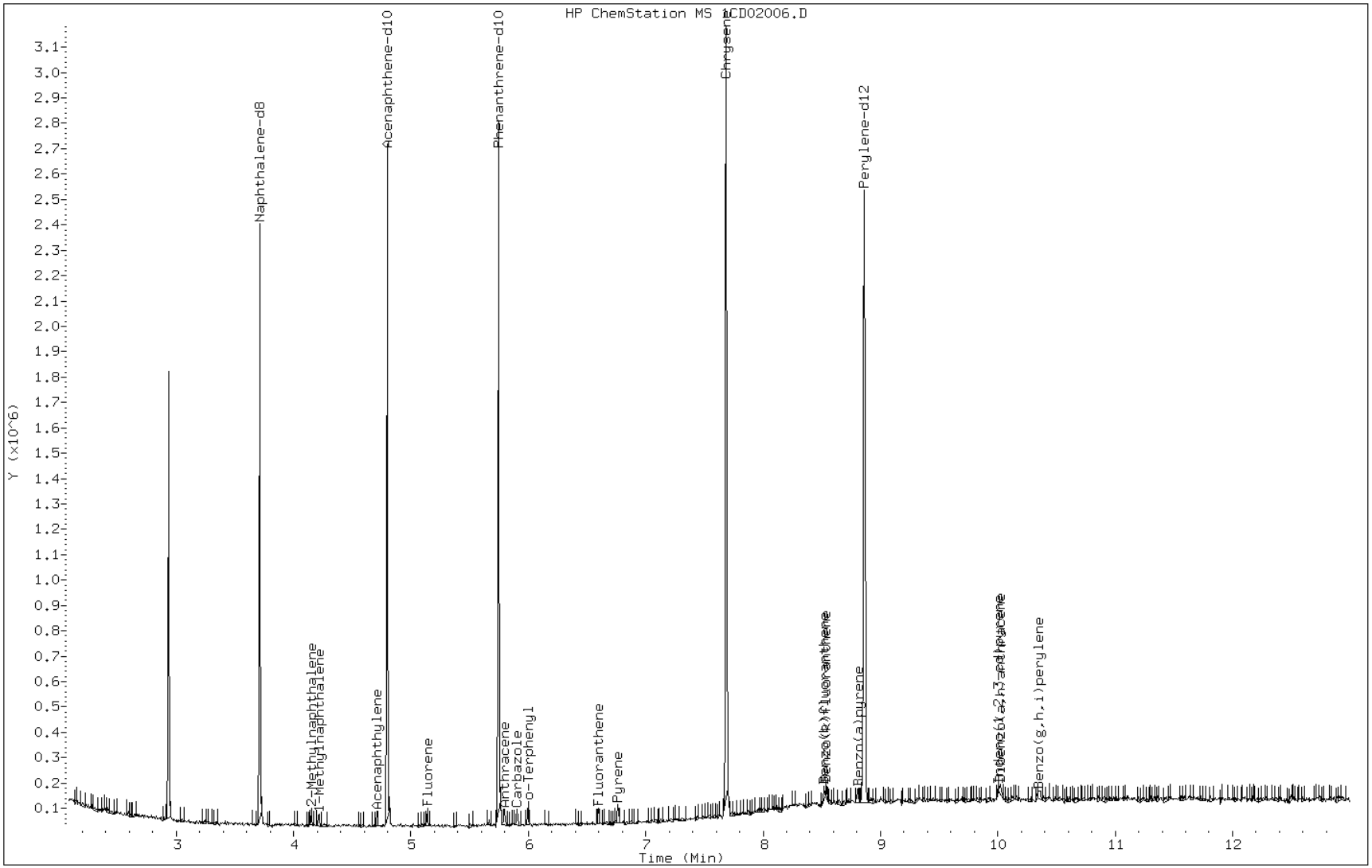
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02006.D

Date: 02-APR-2013 13:44

Client ID: Instrument: BSMC5973.i

Sample Info: IC2 Operator: SCC



Manual Integration Report

Data File: 1CD02006.D
Inj. Date and Time: 02-APR-2013 13:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

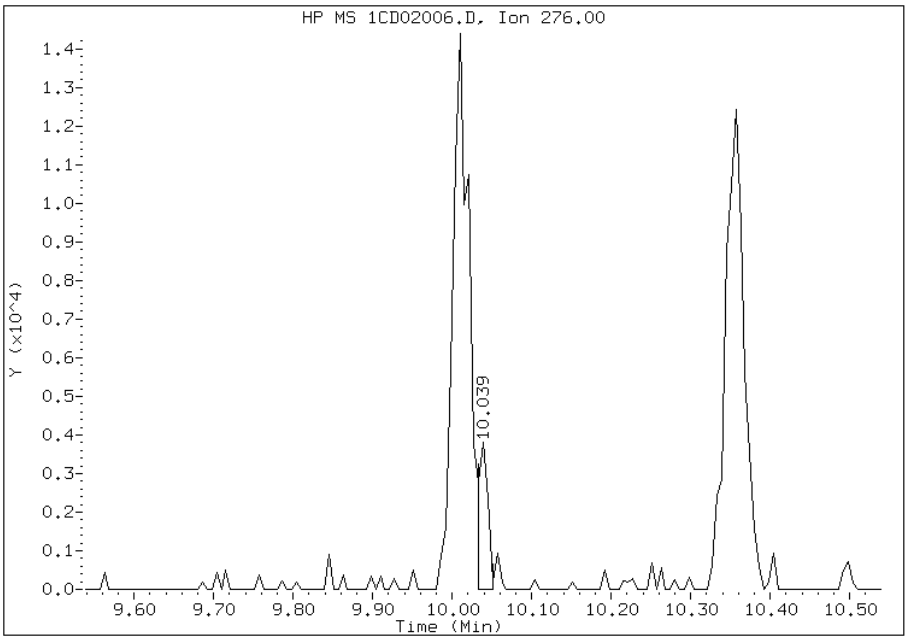
Processing Integration Results

RT: 10.04

Response: 3225

Amount: 0

Conc: 0



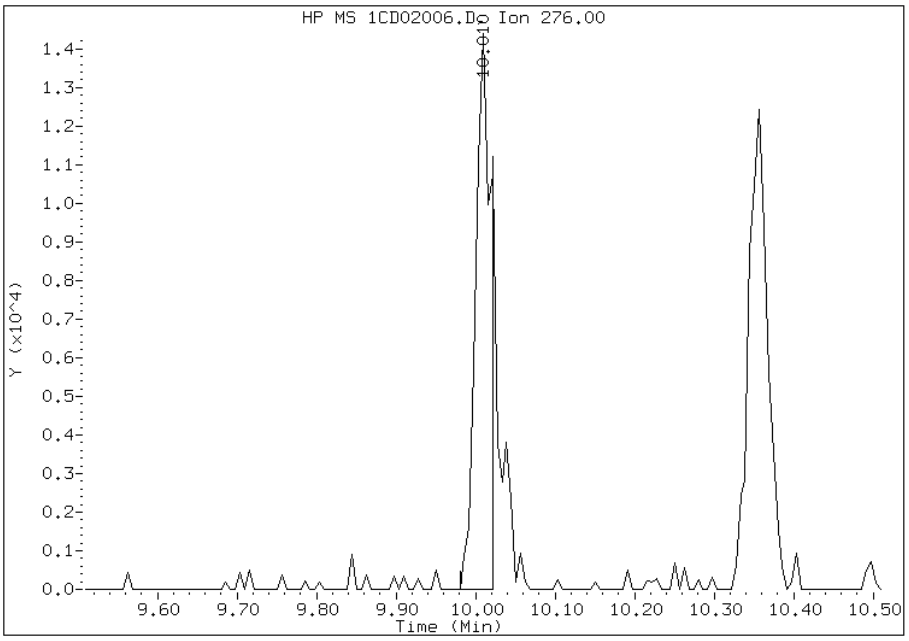
Manual Integration Results

RT: 10.01

Response: 19198

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:45
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02007.D
Lab Smp Id: IC3
Inj Date : 02-APR-2013 14:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC3
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 13:44 Cal File: 1CD02006.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	457408	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	331342	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	625535	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	45027	5.00000	4.6190
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	787858	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	882270	40.0000	(H)
2 Naphthalene	128	3.727	3.727	(1.005)	65815	5.00000	5.6020
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	39376	5.00000	4.9236
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	37056	5.00000	5.1494(Q)
5 Acenaphthylene	152	4.710	4.710	(0.982)	70473	5.00000	5.1389
7 Acenaphthene	154	4.821	4.821	(1.005)	39421	5.00000	4.6430
9 Fluorene	166	5.139	5.139	(1.071)	58298	5.00000	5.1486
11 Phenanthrene	178	5.763	5.763	(1.003)	88442	5.00000	4.8545
12 Anthracene	178	5.792	5.792	(1.008)	90016	5.00000	4.8741
13 Carbazole	167	5.904	5.904	(1.028)	83549	5.00000	5.2803
15 Fluoranthene	202	6.598	6.598	(1.148)	105772	5.00000	5.2570
16 Pyrene	202	6.762	6.762	(0.880)	109963	5.00000	5.0385
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	110756	5.00000	4.4014
19 Chrysene	228	7.704	7.704	(1.002)	118460	5.00000	5.2764(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	127315	5.00000	5.1043
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	121957	5.00000	5.0554(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	112782	5.00000	4.8027(H)
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	114519	5.00000	5.1344(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	97409	5.00000	4.7277(H)
26 Benzo(g,h,i)perylene	276	10.345	10.345	(1.168)	117403	5.00000	5.1573(H)

QC Flag Legend

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

Data File: 1CD02007.D

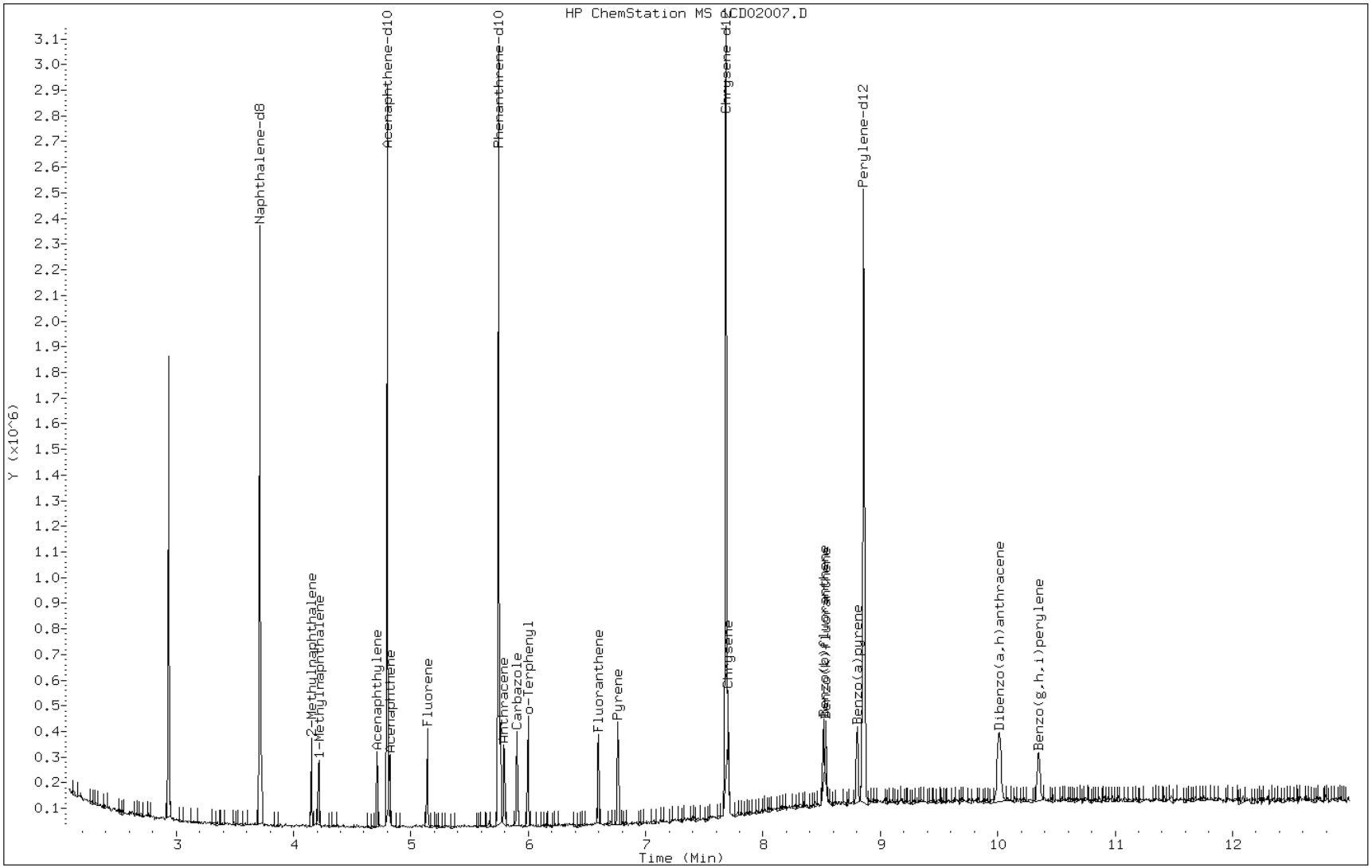
Date: 02-APR-2013 14:02

Client ID:

Instrument: BSMC5973.i

Sample Info: IC3

Operator: SCC



Manual Integration Report

Data File: 1CD02007.D
Inj. Date and Time: 02-APR-2013 14:02
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

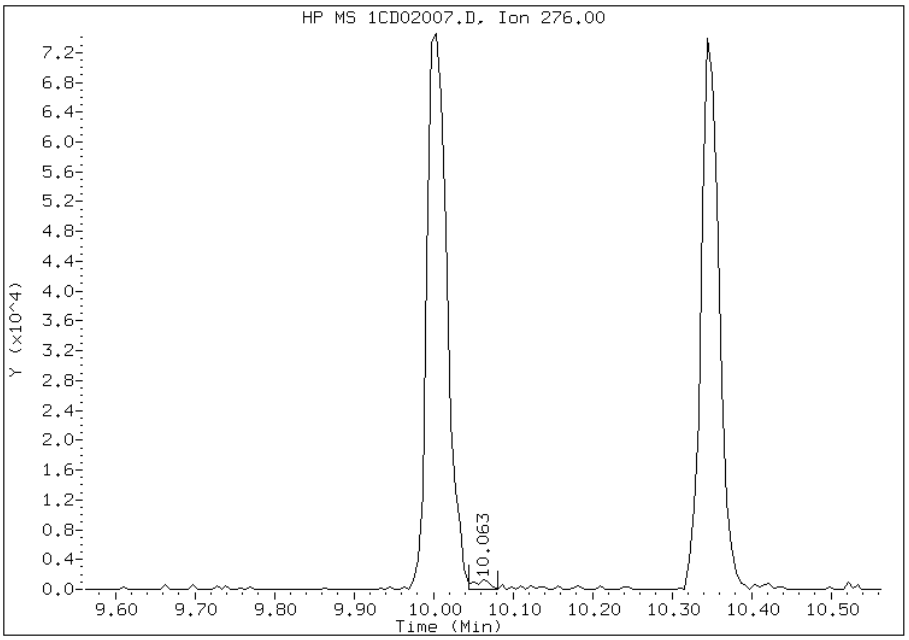
Processing Integration Results

RT: 10.06

Response: 1809

Amount: 0

Conc: 0



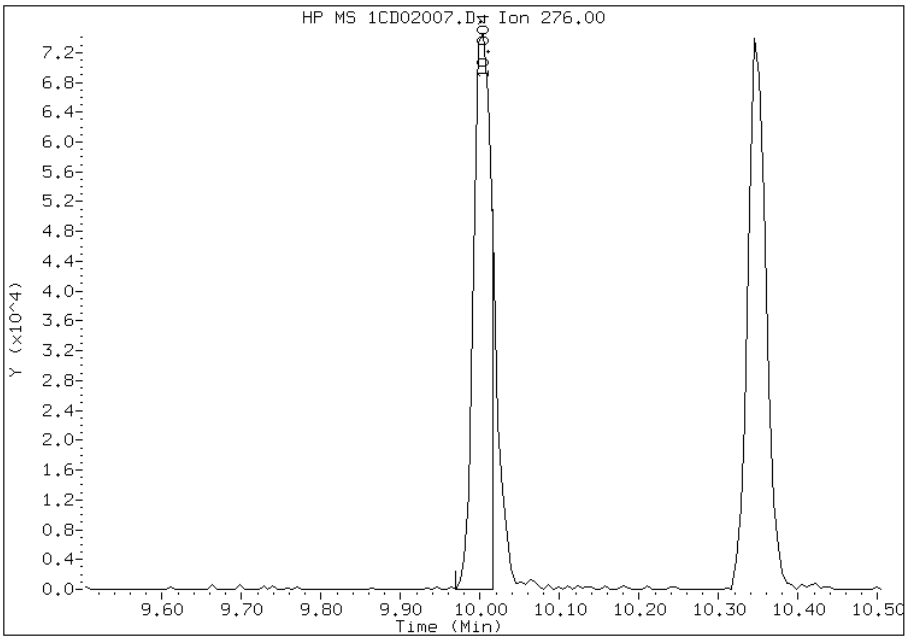
Manual Integration Results

RT: 10.00

Response: 114519

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:48
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02008.D
Lab Smp Id: IC4
Inj Date : 02-APR-2013 14:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC4
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:02 Cal File: 1CD02007.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	480844	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	353988	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	681887	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	103309	10.0000	9.7219
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	888354	40.0000	
* 23 Perylene-d12	264	8.856	8.856	(1.000)	928754	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	121970	10.0000	9.8758
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	89978	10.0000	10.7026
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	73198	10.0000	9.6761
5 Acenaphthylene	152	4.710	4.710	(0.982)	148174	10.0000	10.1137
7 Acenaphthene	154	4.821	4.821	(1.005)	84460	10.0000	9.3113
9 Fluorene	166	5.139	5.139	(1.071)	114648	10.0000	9.4775
11 Phenanthrene	178	5.762	5.762	(1.003)	194036	10.0000	9.7703
12 Anthracene	178	5.792	5.792	(1.008)	200131	10.0000	9.9409
13 Carbazole	167	5.904	5.904	(1.028)	167822	10.0000	9.7299
15 Fluoranthene	202	6.598	6.598	(1.148)	224705	10.0000	10.2452
16 Pyrene	202	6.762	6.762	(0.880)	236267	10.0000	9.6011
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	250220	10.0000	8.8188
19 Chrysene	228	7.703	7.703	(1.002)	247512	10.0000	9.7775(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	261073	10.0000	9.9431(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	258924	10.0000	10.1958(H)
22 Benzo(a)pyrene	252	8.803	8.803	(0.994)	240110	10.0000	9.7131
24 Indeno(1,2,3-cd)pyrene	276	10.003	10.003	(1.129)	222795	10.0000	9.4889(MH)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	216036	10.0000	9.9604
26 Benzo(g,h,i)perylene	276	10.350	10.350	(1.169)	233308	10.0000	9.7359(H)

QC Flag Legend

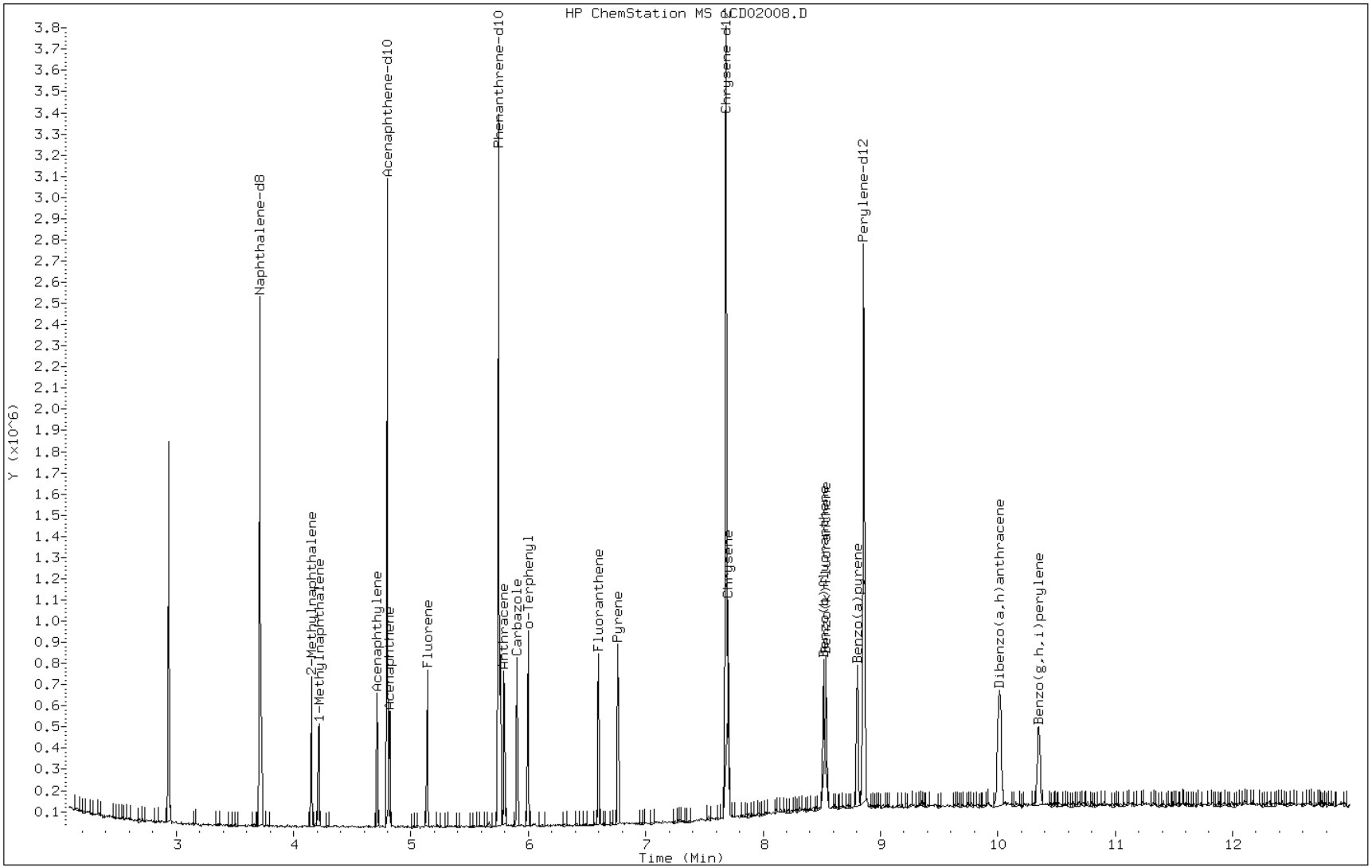
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02008.D

Date: 02-APR-2013 14:20

Client ID: Instrument: BSMC5973.i

Sample Info: IC4 Operator: SCC



Manual Integration Report

Data File: 1CD02008.D
Inj. Date and Time: 02-APR-2013 14:20
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

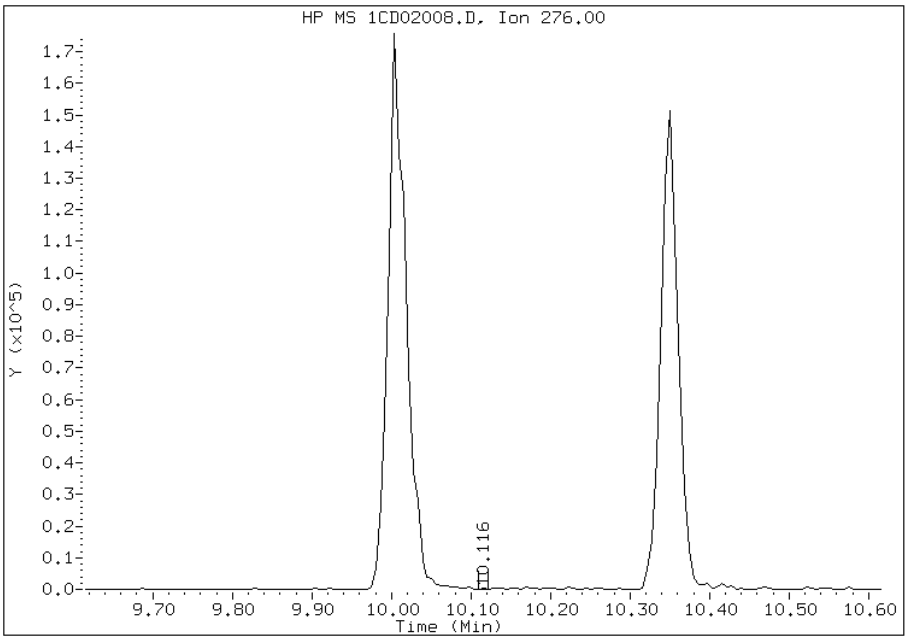
Processing Integration Results

RT: 10.12

Response: 142

Amount: 0

Conc: 0



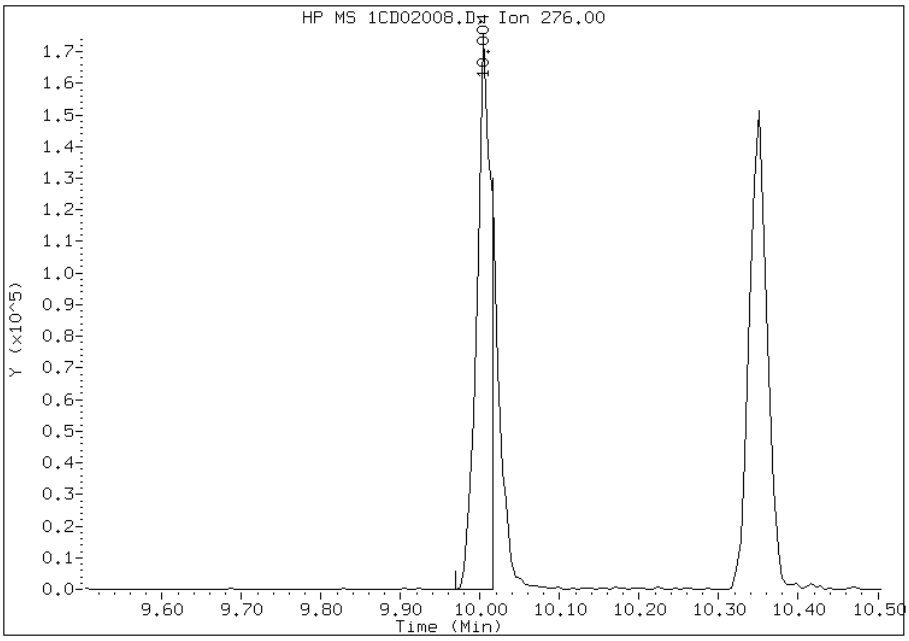
Manual Integration Results

RT: 10.00

Response: 222795

Amount: 9

Conc: 9



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:49
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02009.D
Lab Smp Id: IC5
Inj Date : 02-APR-2013 14:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC5
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:20 Cal File: 1CD02008.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	501011	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	361349	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	702974	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	211673	20.0000	19.3221
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	875378	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	942955	40.0000	
2 Naphthalene	128	3.721	3.721	(1.003)	253190	20.0000	19.6753
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	158694	20.0000	18.1163
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	163647	20.0000	20.7620
5 Acenaphthylene	152	4.710	4.710	(0.982)	308909	20.0000	20.6554
7 Acenaphthene	154	4.821	4.821	(1.005)	191043	20.0000	20.6326
9 Fluorene	166	5.139	5.139	(1.071)	243174	20.0000	19.6928
11 Phenanthrene	178	5.762	5.762	(1.003)	392252	20.0000	19.1586
12 Anthracene	178	5.798	5.798	(1.009)	408192	20.0000	19.6676
13 Carbazole	167	5.904	5.904	(1.028)	376402	20.0000	21.1684
15 Fluoranthene	202	6.598	6.598	(1.148)	468708	20.0000	20.7293
16 Pyrene	202	6.762	6.762	(0.880)	498076	20.0000	20.5403
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	491852	20.0000	17.5920
19 Chrysene	228	7.704	7.704	(1.002)	494376	20.0000	19.8190
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	494109	20.0000	18.5350
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.963)	517620	20.0000	20.0758
22 Benzo(a)pyrene	252	8.803	8.803	(0.993)	482722	20.0000	19.2334
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.129)	412839	20.0000	17.3182(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.021	(1.131)	435940	20.0000	19.7965
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	470085	20.0000	19.3212

QC Flag Legend

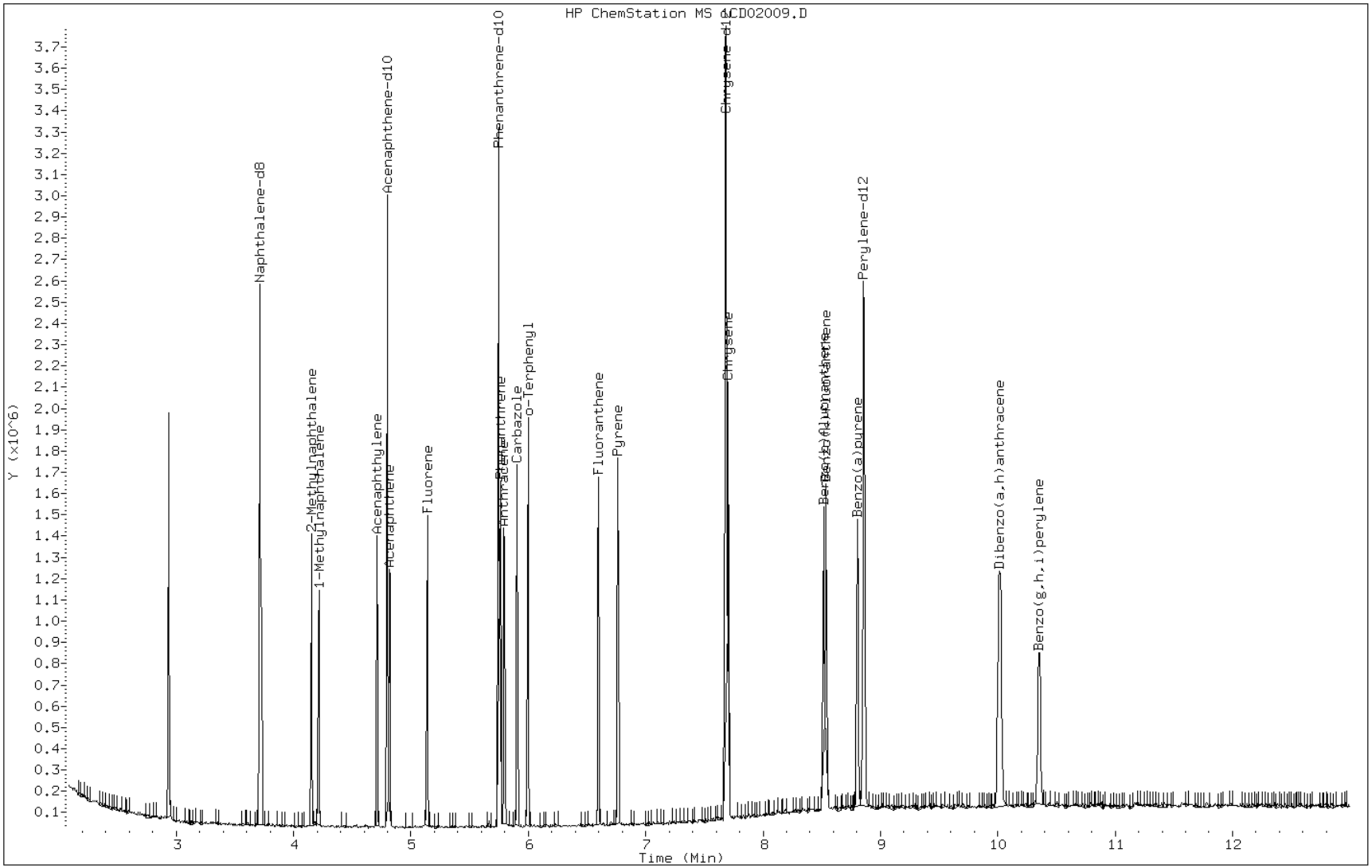
M - Compound response manually integrated.

Data File: 1CD02009.D

Date: 02-APR-2013 14:39

Client ID: Instrument: BSMC5973.i

Sample Info: IC5 Operator: SCC



Manual Integration Report

Data File: 1CD02009.D
Inj. Date and Time: 02-APR-2013 14:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

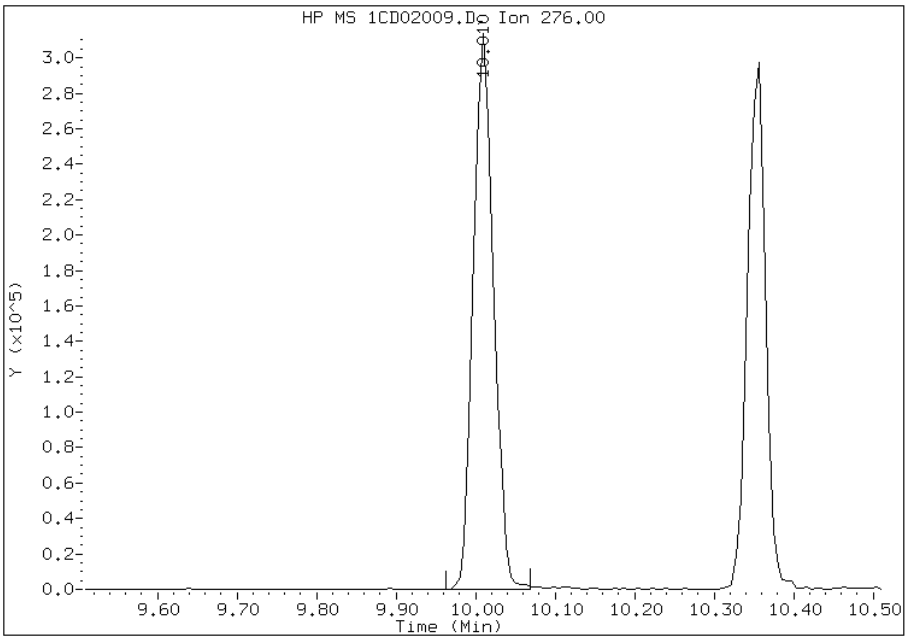
Processing Integration Results

RT: 10.01

Response: 550558

Amount: 32

Conc: 32



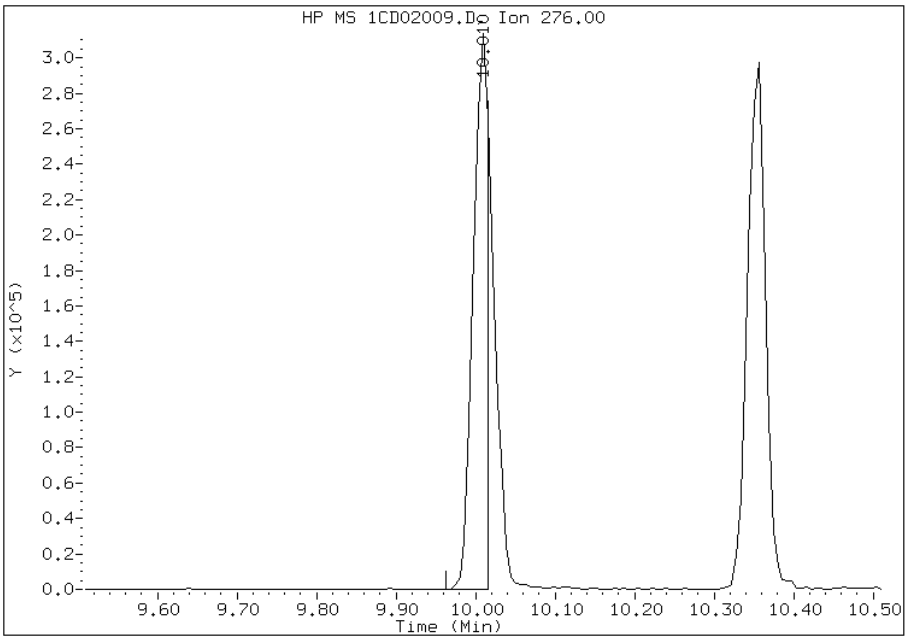
Manual Integration Results

RT: 10.01

Response: 412839

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02010.D
Lab Smp Id: IC6
Inj Date : 02-APR-2013 14:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC6
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:39 Cal File: 1CD02009.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	446499	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	324284	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	615852	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	275212	30.0000	28.6761
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	768745	40.0000	
* 23 Perylene-d12	264	8.857	8.857	(1.000)	837251	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	350333	30.0000	30.5481
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	228375	30.0000	29.2540
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	221182	30.0000	31.4875
5 Acenaphthylene	152	4.710	4.710	(0.982)	423924	30.0000	31.5858
7 Acenaphthene	154	4.822	4.822	(1.005)	244735	30.0000	29.4523
9 Fluorene	166	5.139	5.139	(1.071)	331328	30.0000	29.8986
11 Phenanthrene	178	5.763	5.763	(1.003)	529536	30.0000	29.5228
12 Anthracene	178	5.792	5.792	(1.008)	557837	30.0000	30.6801
13 Carbazole	167	5.904	5.904	(1.028)	488550	30.0000	31.3623
15 Fluoranthene	202	6.598	6.598	(1.148)	607836	30.0000	30.6854
16 Pyrene	202	6.763	6.763	(0.880)	663294	30.0000	31.1481
17 Benzo(a)anthracene	228	7.674	7.674	(0.998)	659379	30.0000	26.8553
19 Chrysene	228	7.704	7.704	(1.002)	659226	30.0000	30.0935(H)
20 Benzo(b)fluoranthene	252	8.515	8.515	(0.961)	671785	30.0000	28.3815(H)
21 Benzo(k)fluoranthene	252	8.539	8.539	(0.964)	719552	30.0000	31.4311(H)
22 Benzo(a)pyrene	252	8.804	8.804	(0.994)	655944	30.0000	29.4349
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.009	(1.130)	655344	30.0000	30.9619(MH)
25 Dibenzo(a,h)anthracene	278	10.027	10.027	(1.132)	600720	30.0000	30.7234
26 Benzo(g,h,i)perylene	276	10.356	10.356	(1.169)	675124	30.0000	31.2520(H)

QC Flag Legend

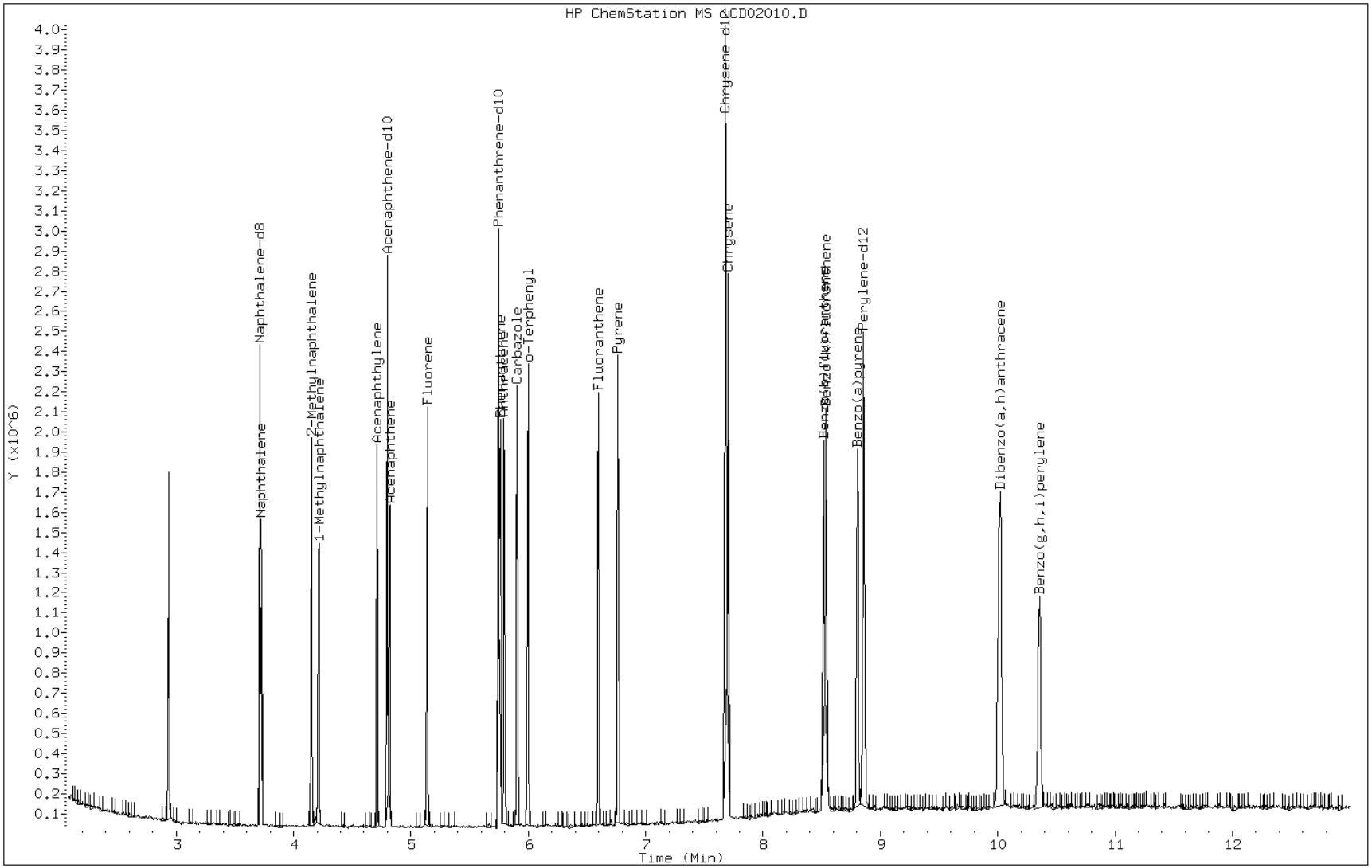
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02010.D

Date: 02-APR-2013 14:57

Client ID: Instrument: BSMC5973.i

Sample Info: IC6 Operator: SCC



Manual Integration Report

Data File: 1CD02010.D
Inj. Date and Time: 02-APR-2013 14:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

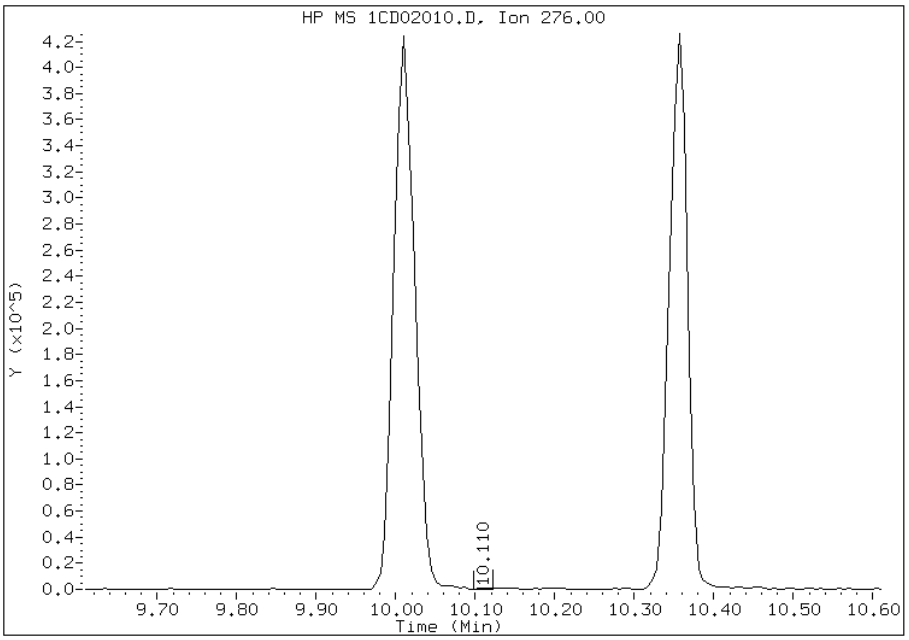
Processing Integration Results

RT: 10.11

Response: 1008

Amount: 0

Conc: 0



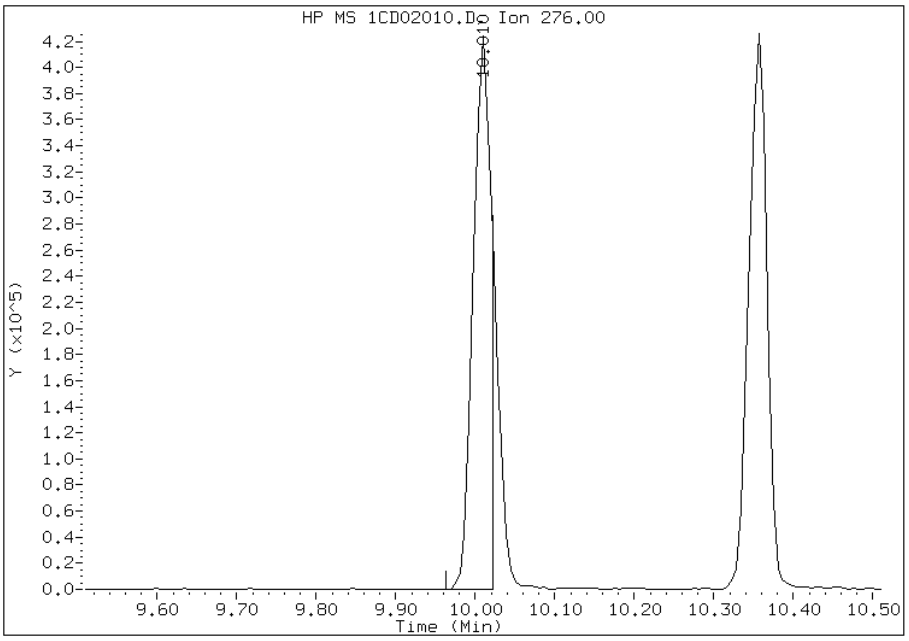
Manual Integration Results

RT: 10.01

Response: 655344

Amount: 31

Conc: 31



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:50
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02011.D
Lab Smp Id: IC7
Inj Date : 02-APR-2013 15:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC7
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:51 BSMC5973.i Quant Type: ISTD
Cal Date : 02-APR-2013 14:57 Cal File: 1CD02010.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	509868	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	373136	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	712035	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	587824	50.0000	52.9755(A)
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	948633	40.0000	
* 23 Perylene-d12	264	8.862	8.862	(1.000)	971909	40.0000	
2 Naphthalene	128	3.727	3.727	(1.005)	668649	50.0000	51.0580(A)
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	447751	50.0000	50.2269(A)
4 1-Methylnaphthalene	142	4.215	4.215	(1.136)	419135	50.0000	52.2523(A)
5 Acenaphthylene	152	4.710	4.710	(0.982)	814053	50.0000	52.7127(A)
7 Acenaphthene	154	4.821	4.821	(1.005)	480392	50.0000	50.2433(A)
9 Fluorene	166	5.139	5.139	(1.071)	638557	50.0000	50.0785(A)
11 Phenanthrene	178	5.762	5.762	(1.003)	1077014	50.0000	51.9349(A)
12 Anthracene	178	5.798	5.798	(1.009)	1098599	50.0000	52.2594(A)
13 Carbazole	167	5.904	5.904	(1.028)	948101	50.0000	52.6415(A)
15 Fluoranthene	202	6.598	6.598	(1.148)	1248081	50.0000	54.4959(A)
16 Pyrene	202	6.762	6.762	(0.880)	1360548	50.0000	51.7754(A)
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	1380443	50.0000	45.5615
19 Chrysene	228	7.709	7.709	(1.003)	1377767	50.0000	50.9681(AH)
20 Benzo(b)fluoranthene	252	8.521	8.521	(0.962)	1443812	50.0000	52.5467(AH)
21 Benzo(k)fluoranthene	252	8.545	8.545	(0.964)	1396501	50.0000	52.5496(AH)
22 Benzo(a)pyrene	252	8.809	8.809	(0.994)	1403971	50.0000	54.2730(A)
24 Indeno(1,2,3-cd)pyrene	276	10.015	10.015	(1.130)	1242391	50.0000	50.5646(AMH)
25 Dibenzo(a,h)anthracene	278	10.033	10.033	(1.132)	1194691	50.0000	52.6360(A)
26 Benzo(g,h,i)perylene	276	10.362	10.362	(1.169)	1270187	50.0000	50.6515(AH)

QC Flag Legend

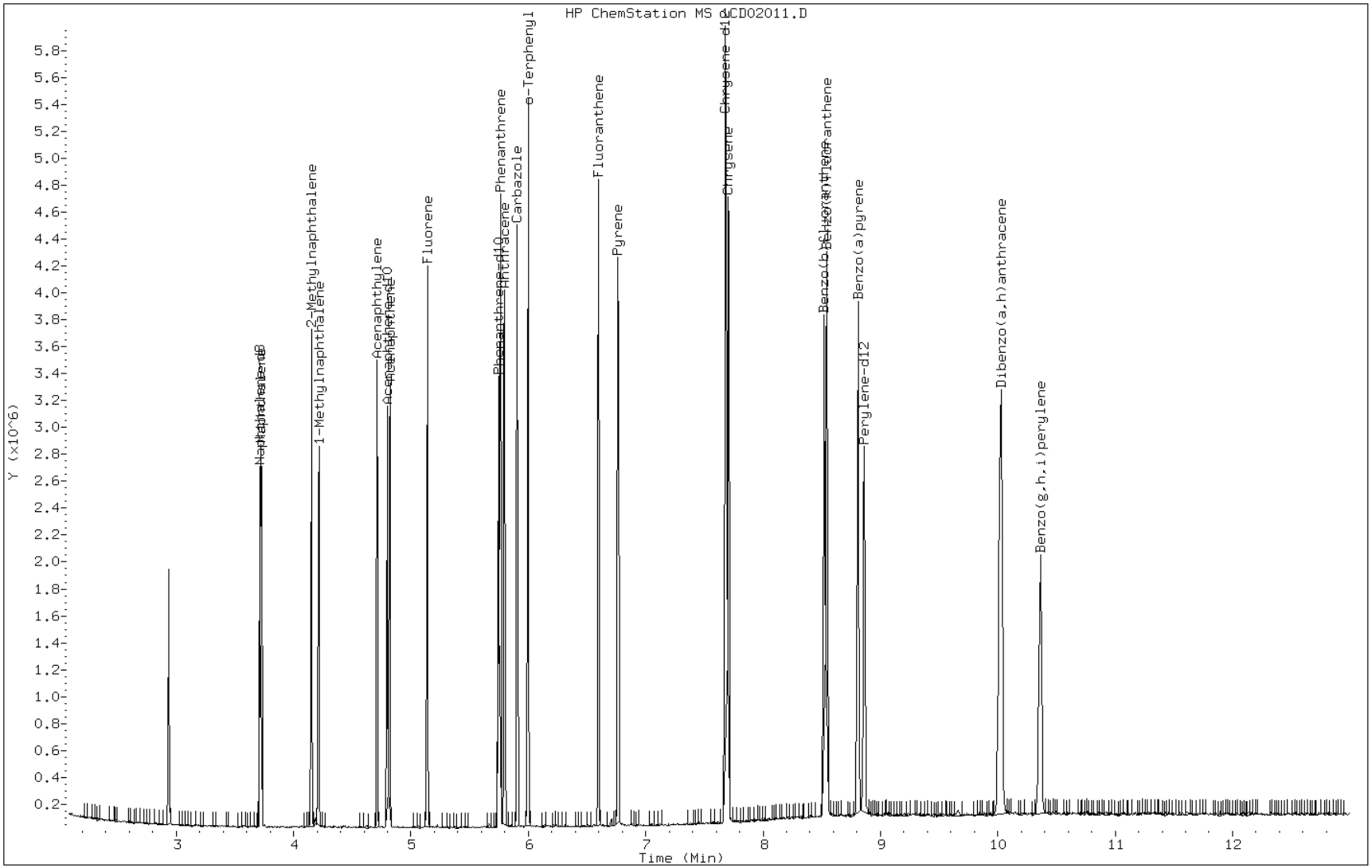
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD02011.D

Date: 02-APR-2013 15:15

Client ID: Instrument: BSMC5973.i

Sample Info: IC7 Operator: SCC



Manual Integration Report

Data File: 1CD02011.D
Inj. Date and Time: 02-APR-2013 15:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

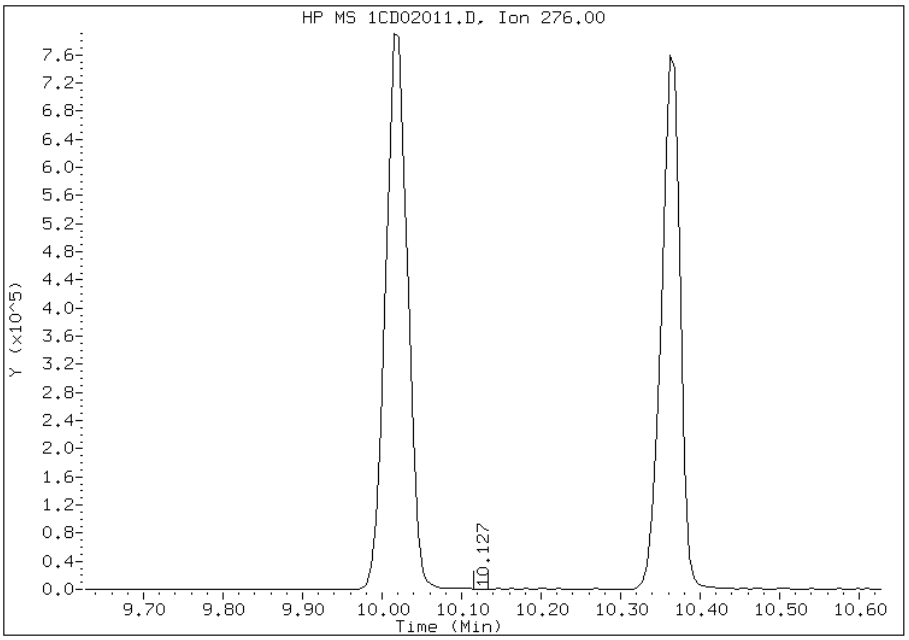
Processing Integration Results

RT: 10.13

Response: 653

Amount: 0

Conc: 0



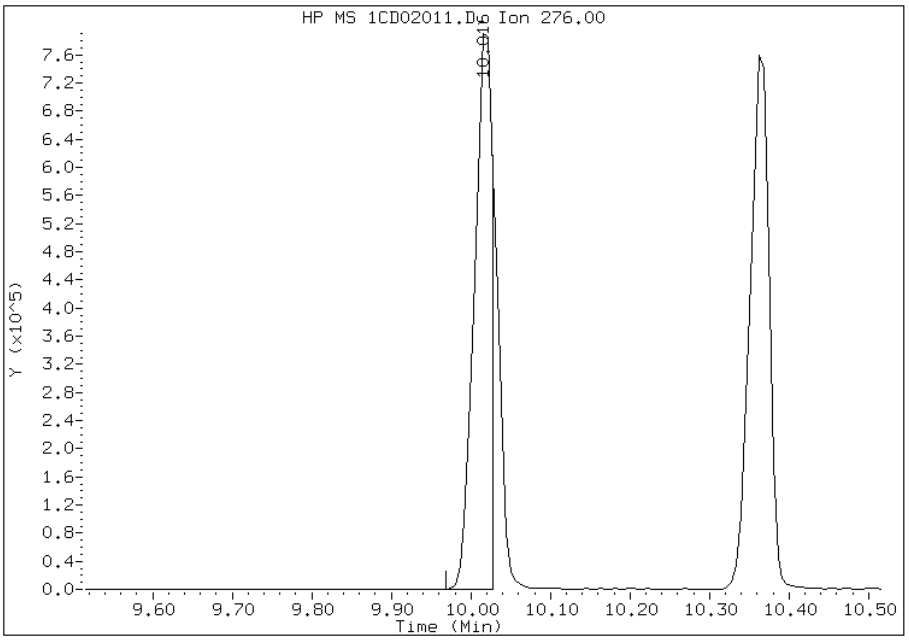
Manual Integration Results

RT: 10.02

Response: 1242391

Amount: 51

Conc: 51



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:51
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136164

SDG No.: 68088766-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9331 1.0230	0.9606 1.0509	1.0286	0.9649	0.9984	Ave		0.9942			0.0000	4.3		15.0			
2-Methylnaphthalene	0.5806 0.6693	0.6114 0.6984	0.6517	0.6297	0.6515	Ave		0.6418			0.0000	6.0		15.0			
1-Methylnaphthalene	0.5558 0.6314	0.5782 0.6544	0.6189	0.5919	0.6119	Ave		0.6061			0.0000	5.5		15.0			
Acenaphthylene	1.4312 1.8297	1.5518 1.8878	1.7317	1.6795	1.7392	Ave		1.6930			0.0000	9.3		15.0			
Acenaphthene	1.0016 1.0873	0.9902 1.1219	1.0649	1.0164	1.0329	Ave		1.0450			0.0000	4.6		15.0			
Fluorene	1.1332 1.3072	1.1795 1.3301	1.2333	1.2265	1.2526	Ave		1.2375			0.0000	5.5		15.0			
Phenanthrene	1.0628 1.1227	1.0409 1.1914	1.1226	1.0753	1.0969	Ave		1.1018			0.0000	4.5		15.0			
Anthracene	0.9667 1.1508	1.0104 1.2102	1.1116	1.0846	1.1206	Ave		1.0936			0.0000	7.6		15.0			
Carbazole	0.8539 0.9974	0.9170 1.0575	0.9788	0.9568	0.9906	Ave		0.9646			0.0000	6.7		15.0			
Fluoranthene	1.0349 1.1765	1.0636 1.2407	1.1552	1.1188	1.1468	Ave		1.1338			0.0000	6.1		15.0			
Pyrene	1.1042 1.2400	1.1445 1.2796	1.2302	1.1952	1.2147	Ave		1.2012			0.0000	5.0		15.0			
Benzo[a]anthracene	1.5223 1.0884	1.1349 1.0935	1.1146	1.0605	1.0812	Ave		1.1565			0.0000	14.1		15.0			
Chrysene	1.1462 1.0803	1.0503 1.1335	1.0831	1.0383	1.0590	Ave		1.0844			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.9638 1.0305	0.9264 1.0697	1.0233	0.9705	1.0102	Ave		0.9992			0.0000	4.8		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136164

SDG No.: 68088766-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9941 1.0870	1.0278 1.1123	1.0413	1.0574	1.0488	Ave		1.0527			0.0000	3.7		15.0			
Benzo[a]pyrene	0.9363 1.0554	0.9330 1.0817	1.0086	0.9978	1.0150	Ave		1.0040			0.0000	5.5		15.0			
Indeno[1,2,3-cd]pyrene	0.9719 1.1444	1.0047 1.2203	1.0673	1.0253	1.0598	Ave		1.0705			0.0000	8.0		15.0			
Dibenz(a,h)anthracene	1.0008 1.0474	0.9200 1.0891	1.0022	0.9846	1.0127	Ave		1.0081			0.0000	5.2		15.0			
Benzo[g,h,i]perylene	0.9959 1.0588	1.0032 1.0675	1.0494	1.0184	1.0221	Ave		1.0308			0.0000	2.7		15.0			
o-Terphenyl	0.5239 0.6240	0.5611 0.6847	0.6139	0.5898	0.6214	Ave		0.6027			0.0000	8.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136164

SDG No.: 68088766-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136164/15	1DD04007.D
Level 2	IC 660-136164/16	1DD04008.D
Level 3	IC 660-136164/17	1DD04009.D
Level 4	IC 660-136164/18	1DD04010.D
Level 5	ICIS 660-136164/19	1DD04011.D
Level 6	IC 660-136164/20	1DD04012.D
Level 7	IC 660-136164/21	1DD04013.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11503 1777021	59216 3211548	316194	614716	1235557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7158 1162560	37688 2134320	200332	401151	806286	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	6852 1096847	35645 1999874	190230	377068	757317	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	10298 1852399	56340 3396591	314191	620756	1275622	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7207 1100779	35951 2018481	193205	375673	757590	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	8154 1323451	42826 2393163	223769	453336	918747	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	12866 1932978	63070 3534794	338739	657435	1331875	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	11703 1981347	61222 3590722	335430	663091	1360668	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	10338 1717245	55563 3137679	295345	584967	1202897	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	12529 2025512	64445 3681257	348578	684049	1392506	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13274 2181708	69252 3965627	374480	738839	1496990	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	18301 1914899	68675 3388838	339292	655565	1332372	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13779 1900592	63553 3512644	329706	641842	1305118	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12005 1811151	57946 3290902	323060	612455	1270704	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	12382 1910468	64288 3421834	328752	667284	1319239	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-88766-2 Analy Batch No.: 136164

SDG No.: 68088766-2

Instrument ID: BSMD5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 04/04/2013 13:49 Calibration End Date: 04/04/2013 16:04 Calibration ID: 2874

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	11662 1854979	58354 3327888	318431	629684	1276688	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12106 2011375	62840 3754268	336963	647015	1333044	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12466 1840819	57541 3350541	316396	621340	1273836	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	12405 1860821	62750 3284166	331324	642692	1285637	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6343 1074388	33997 2031596	185249	360585	754512	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04007.D
Lab Smp Id: IC-1531396
Inj Date : 04-APR-2013 13:49
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531396
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.091	6.091	(1.000)	2465524	40.0000	
* 6 Acenaphthene-d10	164	7.766	7.766	(1.000)	1439075	40.0000	
* 9 Phenanthrene-d10	188	9.023	9.023	(1.000)	2421253	40.0000	
$ 13 o-Terphenyl	230	9.329	9.329	(1.034)	6343	0.20000	0.17
* 17 Chrysene-d12	240	11.338	11.338	(1.000)	2404329	40.0000	
* 22 Perylene-d12	264	13.165	13.165	(1.000)	2491199	40.0000	
2 Naphthalene	128	6.109	6.109	(1.003)	11503	0.20000	0.19
3 2-Methylnaphthalene	142	6.814	6.814	(1.119)	7158	0.20000	0.18
4 1-Methylnaphthalene	142	6.908	6.908	(1.134)	6852	0.20000	0.18
5 Acenaphthylene	152	7.637	7.637	(0.983)	10298	0.20000	0.17
7 Acenaphthene	154	7.789	7.789	(1.003)	7207	0.20000	0.19
8 Fluorene	166	8.236	8.236	(1.061)	8154	0.20000	0.18
10 Phenanthrene	178	9.041	9.041	(1.002)	12866	0.20000	0.19
11 Anthracene	178	9.082	9.082	(1.007)	11703	0.20000	0.18
12 Carbazole	167	9.223	9.223	(1.022)	10338	0.20000	0.18
14 Fluoranthene	202	10.022	10.022	(1.111)	12529	0.20000	0.18
15 Pyrene	202	10.210	10.210	(0.901)	13274	0.20000	0.18
16 Benzo(a)anthracene	228	11.321	11.321	(0.998)	18301	0.20000	0.28
18 Chrysene	228	11.356	11.356	(1.002)	13779	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.613	12.613	(0.958)	12005	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.648	12.648	(0.961)	12382	0.20000	0.19
21 Benzo(a)pyrene	252	13.060	13.060	(0.992)	11662	0.20000	0.19
23 Indeno(1,2,3-cd)pyrene	276	14.734	14.734	(1.119)	12106	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	14.758	14.758	(1.121)	12466	0.20000	0.20(M)
25 Benzo(g,h,i)perylene	276	15.175	15.175	(1.153)	12405	0.20000	0.19

QC Flag Legend

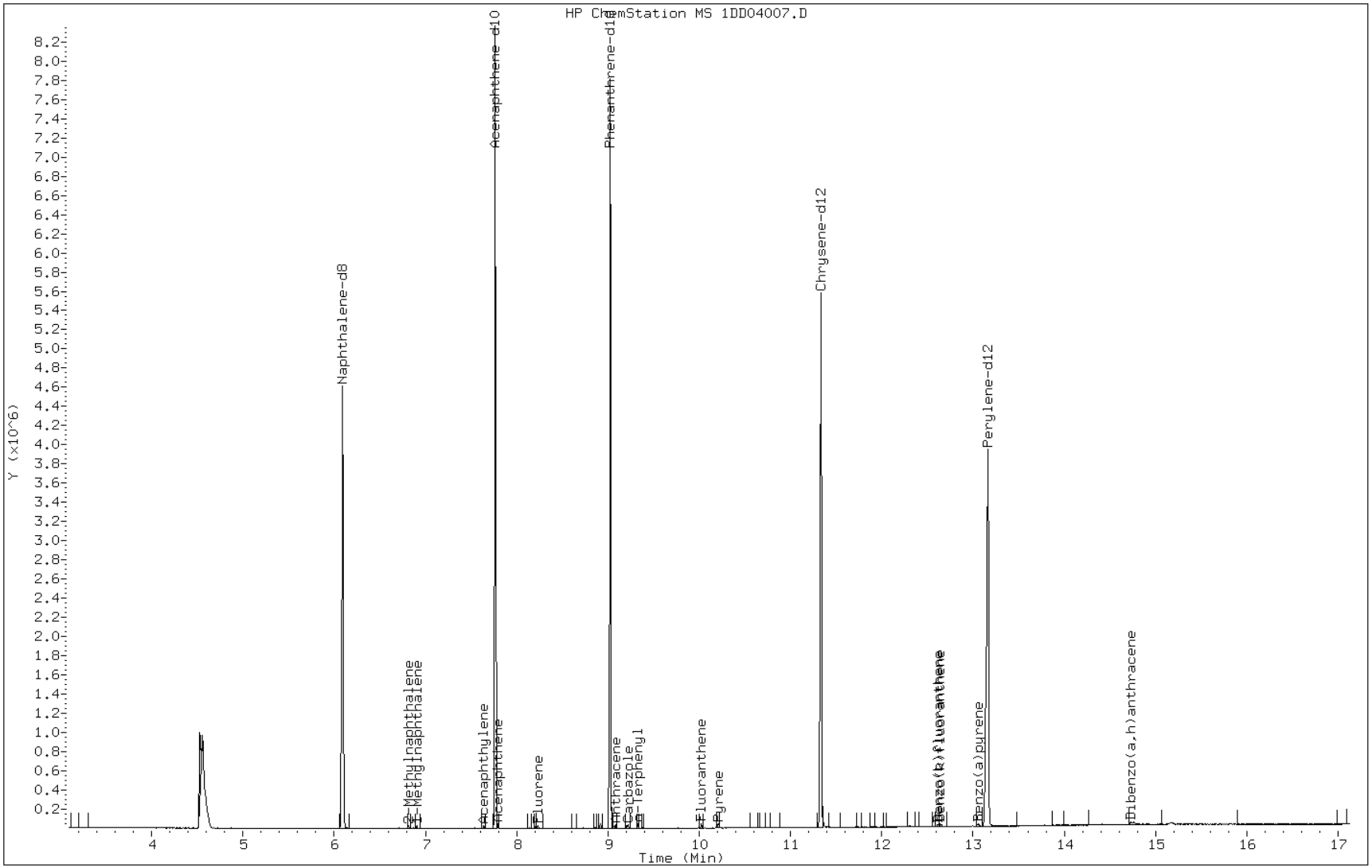
M - Compound response manually integrated.

Data File: 1DD04007.D

Date: 04-APR-2013 13:49

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531396 Operator: SCC



Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

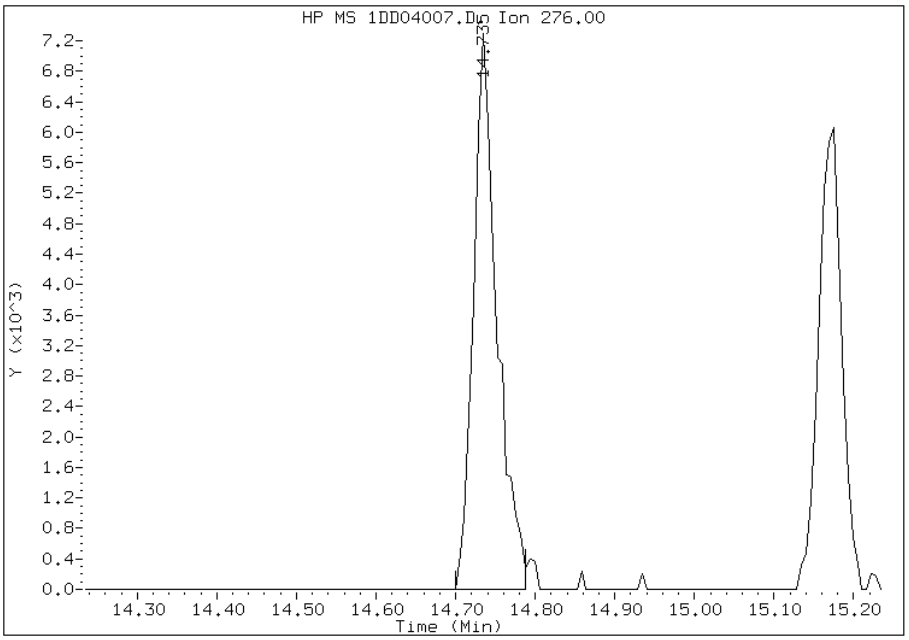
Processing Integration Results

RT: 14.73

Response: 14910

Amount: 0

Conc: 0



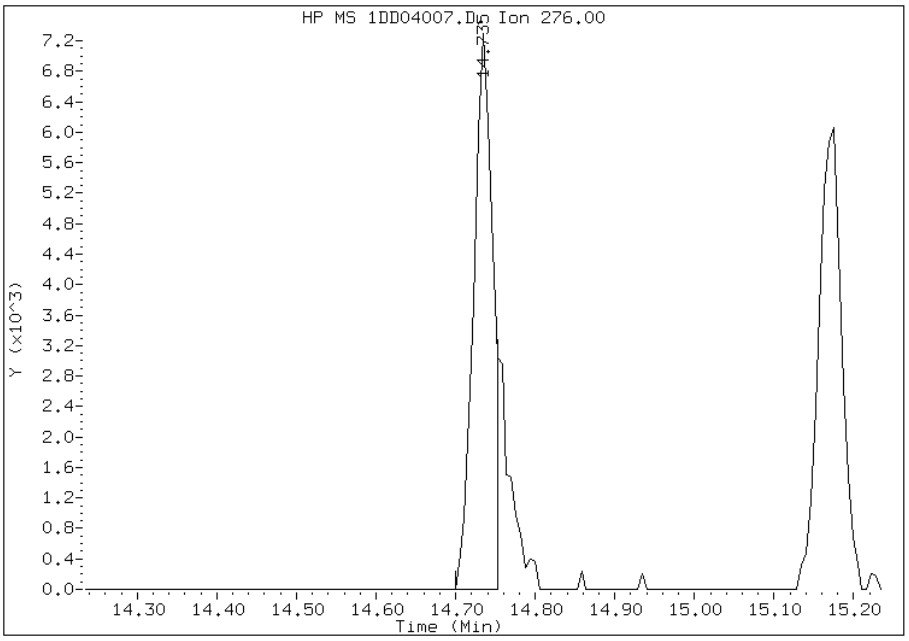
Manual Integration Results

RT: 14.73

Response: 12106

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04007.D
Inj. Date and Time: 04-APR-2013 13:49
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

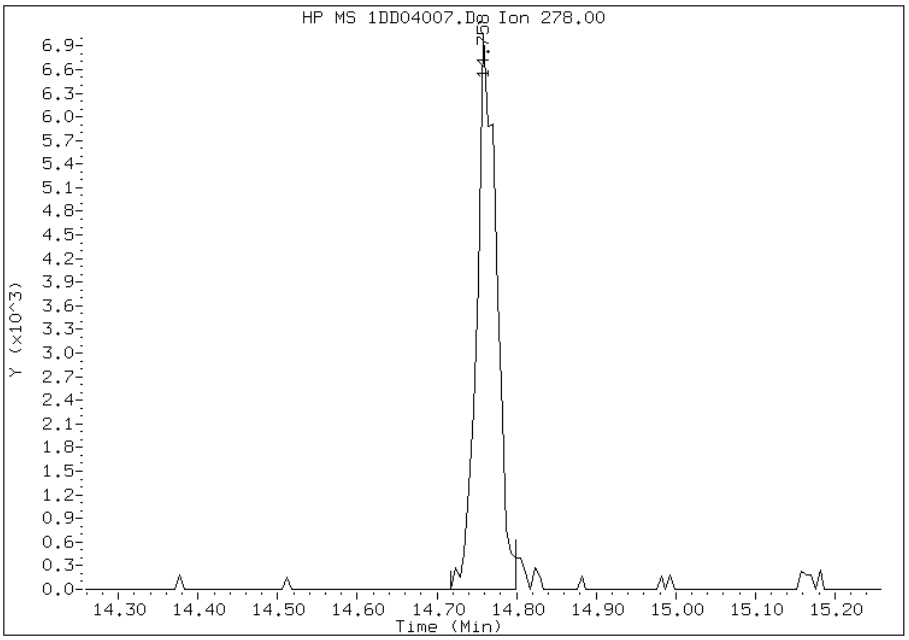
Processing Integration Results

RT: 14.76

Response: 12250

Amount: 0

Conc: 0



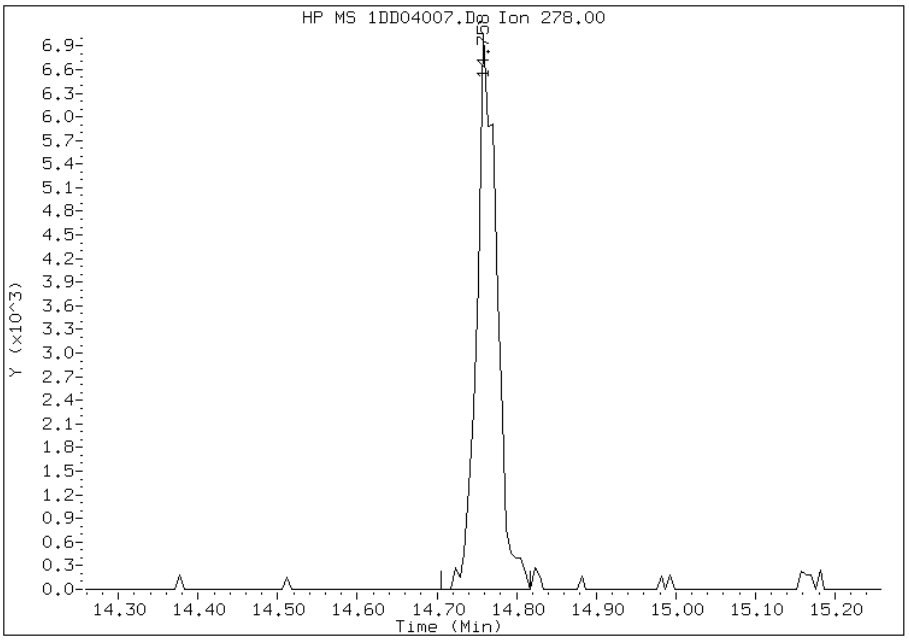
Manual Integration Results

RT: 14.76

Response: 12466

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04008.D
Lab Smp Id: IC-1531398
Inj Date : 04-APR-2013 14:11
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531398
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 13:49 Cal File: 1DD04007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2465772	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1452284	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2423707	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	33997	1.00000	0.93
* 17 Chrysene-d12	240	11.336	11.336	(1.000)	2420423	40.0000	
* 22 Perylene-d12	264	13.163	13.163	(1.000)	2501899	40.0000	
2 Naphthalene	128	6.112	6.112	(1.004)	59216	1.00000	0.97
3 2-Methylnaphthalene	142	6.817	6.817	(1.120)	37688	1.00000	0.95
4 1-Methylnaphthalene	142	6.911	6.911	(1.135)	35645	1.00000	0.95
5 Acenaphthylene	152	7.640	7.640	(0.983)	56340	1.00000	0.92
7 Acenaphthene	154	7.793	7.793	(1.003)	35951	1.00000	0.95
8 Fluorene	166	8.233	8.233	(1.060)	42826	1.00000	0.95
10 Phenanthrene	178	9.038	9.038	(1.001)	63070	1.00000	0.94
11 Anthracene	178	9.080	9.080	(1.006)	61222	1.00000	0.92
12 Carbazole	167	9.221	9.221	(1.021)	55563	1.00000	0.95
14 Fluoranthene	202	10.020	10.020	(1.110)	64445	1.00000	0.94
15 Pyrene	202	10.208	10.208	(0.900)	69252	1.00000	0.95
16 Benzo(a)anthracene	228	11.318	11.318	(0.998)	68675	1.00000	1.0
18 Chrysene	228	11.359	11.359	(1.002)	63553	1.00000	0.97
19 Benzo(b)fluoranthene	252	12.611	12.611	(0.958)	57946	1.00000	0.93
20 Benzo(k)fluoranthene	252	12.646	12.646	(0.961)	64288	1.00000	0.98
21 Benzo(a)pyrene	252	13.057	13.057	(0.992)	58354	1.00000	0.93
23 Indeno(1,2,3-cd)pyrene	276	14.732	14.732	(1.119)	62840	1.00000	0.94(M)
24 Dibenzo(a,h)anthracene	278	14.761	14.761	(1.121)	57541	1.00000	0.91(M)
25 Benzo(g,h,i)perylene	276	15.167	15.167	(1.152)	62750	1.00000	0.97

QC Flag Legend

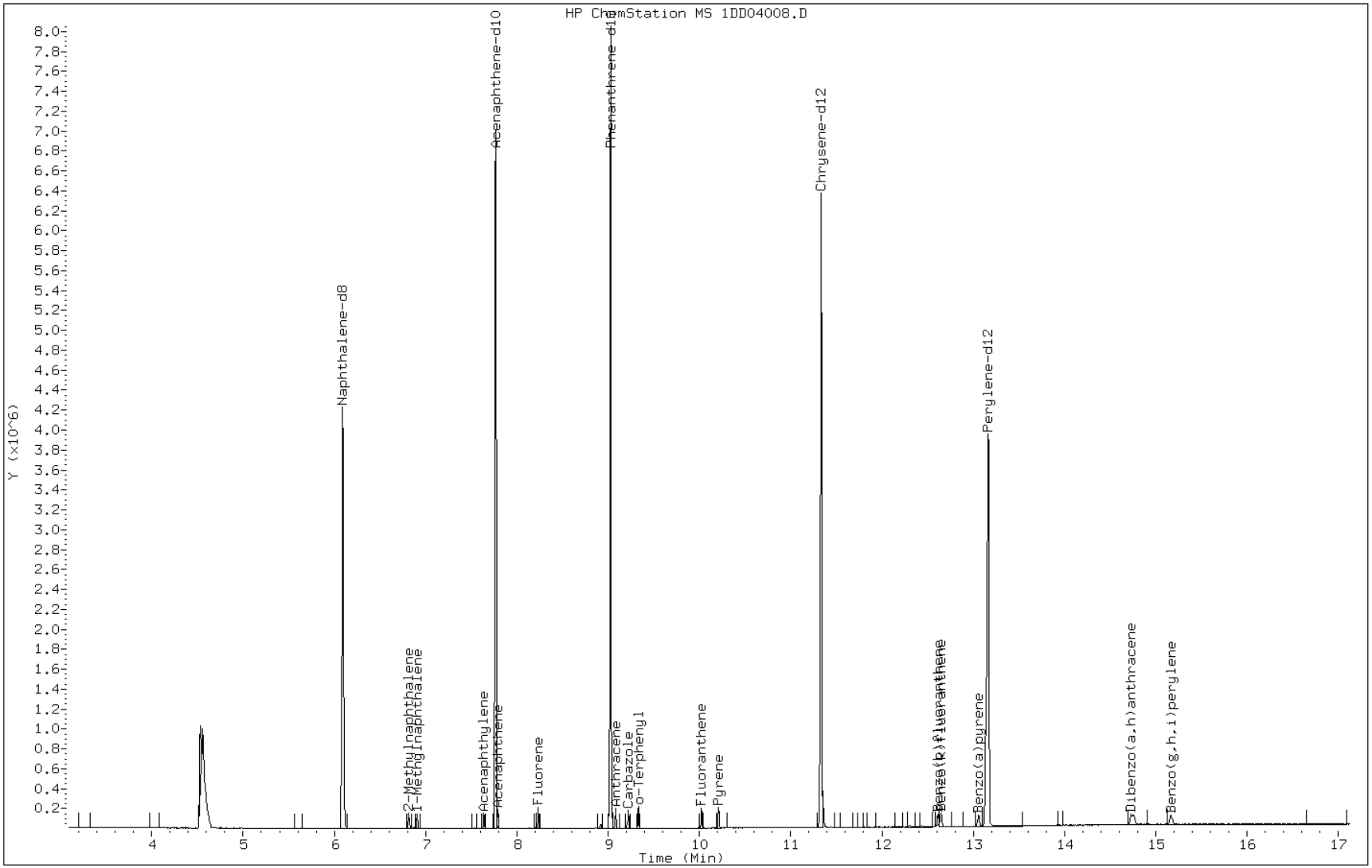
M - Compound response manually integrated.

Data File: 1DD04008.D

Date: 04-APR-2013 14:11

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531398 Operator: SCC



Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

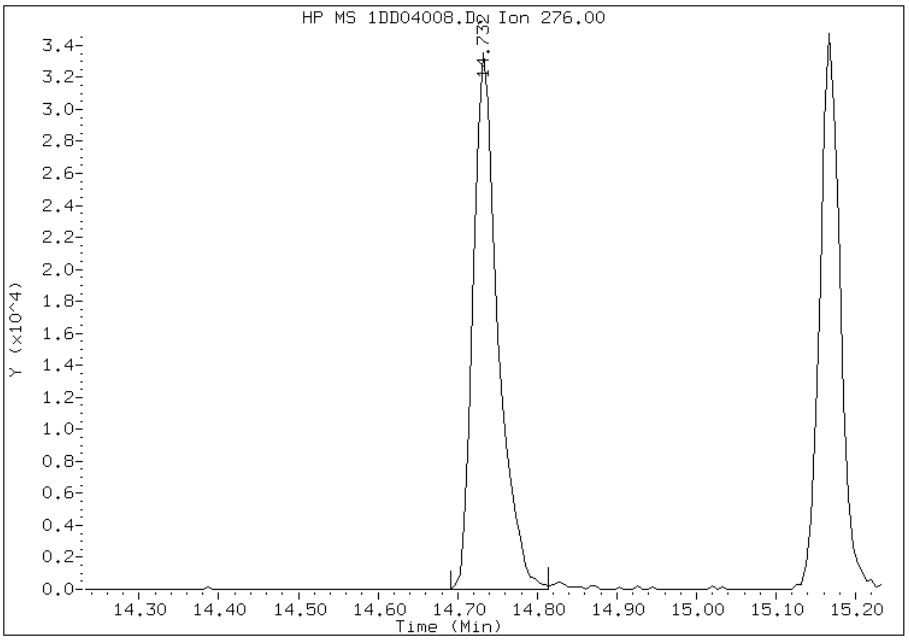
Processing Integration Results

RT: 14.73

Response: 72512

Amount: 1

Conc: 1



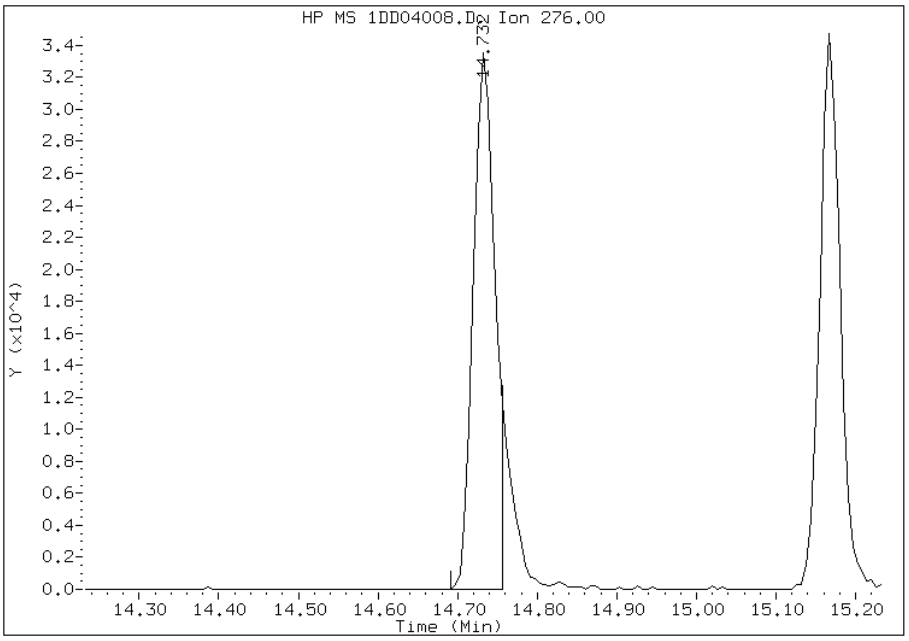
Manual Integration Results

RT: 14.73

Response: 62840

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DD04008.D
Inj. Date and Time: 04-APR-2013 14:11
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/05/2013

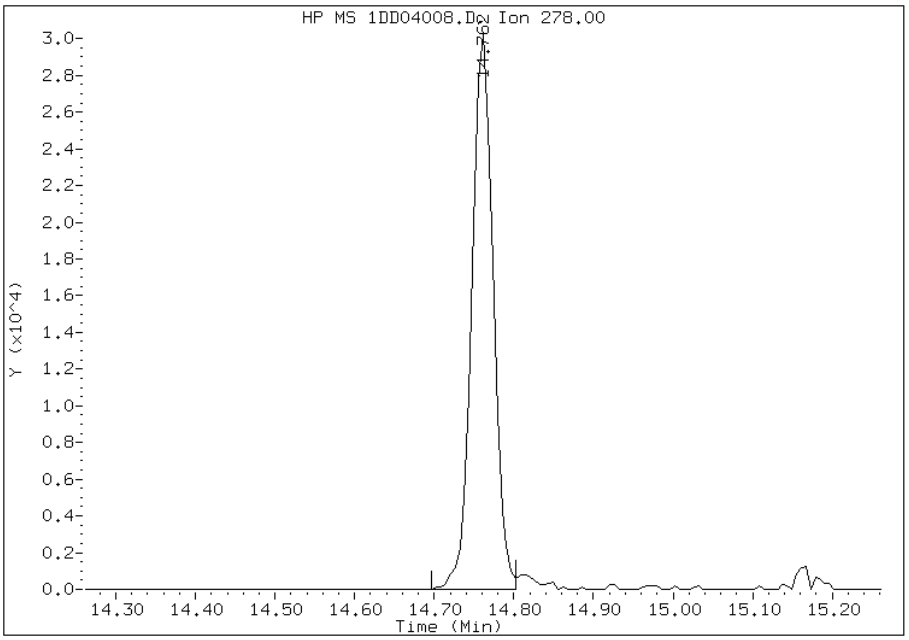
Processing Integration Results

RT: 14.76

Response: 56125

Amount: 1

Conc: 1



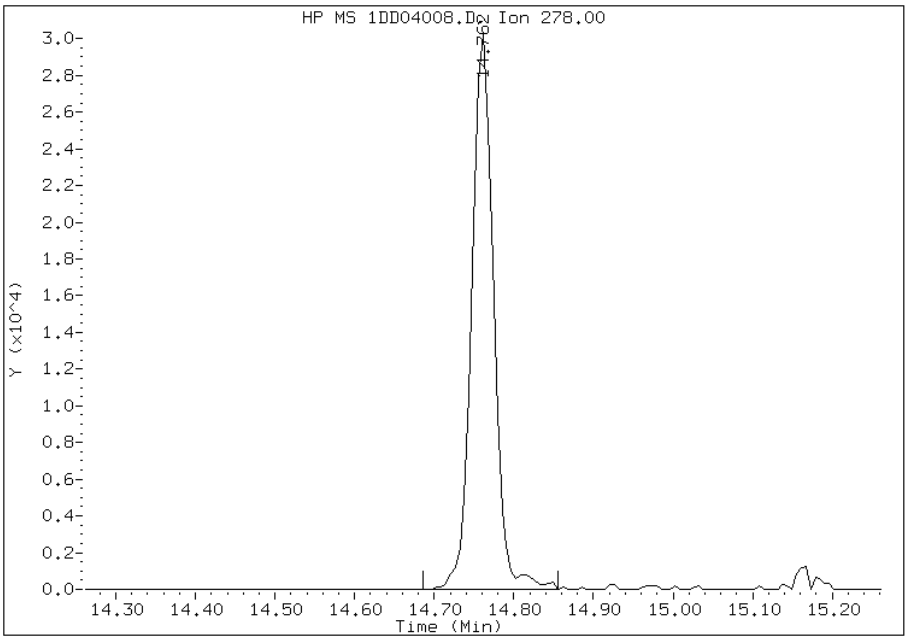
Manual Integration Results

RT: 14.76

Response: 57541

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:28
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04009.D
Lab Smp Id: IC-1531399
Inj Date : 04-APR-2013 14:34
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531399
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:11 Cal File: 1DD04008.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2459101	40.0000	
* 6 Acenaphthene-d10	164	7.768	7.768	(1.000)	1451469	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2413975	40.0000	
$ 13 o-Terphenyl	230	9.331	9.331	(1.034)	185249	5.00000	5.1
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2435324	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2525708	40.0000	
2 Naphthalene	128	6.111	6.111	(1.003)	316194	5.00000	5.2
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	200332	5.00000	5.1
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	190230	5.00000	5.1
5 Acenaphthylene	152	7.639	7.639	(0.983)	314191	5.00000	5.1
7 Acenaphthene	154	7.791	7.791	(1.003)	193205	5.00000	5.1
8 Fluorene	166	8.232	8.232	(1.060)	223769	5.00000	5.0
10 Phenanthrene	178	9.043	9.043	(1.002)	338739	5.00000	5.1
11 Anthracene	178	9.084	9.084	(1.007)	335430	5.00000	5.1
12 Carbazole	167	9.219	9.219	(1.021)	295345	5.00000	5.1
14 Fluoranthene	202	10.024	10.024	(1.111)	348578	5.00000	5.1
15 Pyrene	202	10.212	10.212	(0.901)	374480	5.00000	5.1
16 Benzo(a)anthracene	228	11.323	11.323	(0.998)	339292	5.00000	5.1
18 Chrysene	228	11.358	11.358	(1.002)	329706	5.00000	5.0
19 Benzo(b)fluoranthene	252	12.615	12.615	(0.958)	323060	5.00000	5.1
20 Benzo(k)fluoranthene	252	12.650	12.650	(0.961)	328752	5.00000	4.9
21 Benzo(a)pyrene	252	13.062	13.062	(0.992)	318431	5.00000	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.742	14.742	(1.120)	336963	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	14.766	14.766	(1.121)	316396	5.00000	5.0
25 Benzo(g,h,i)perylene	276	15.177	15.177	(1.153)	331324	5.00000	5.1

QC Flag Legend

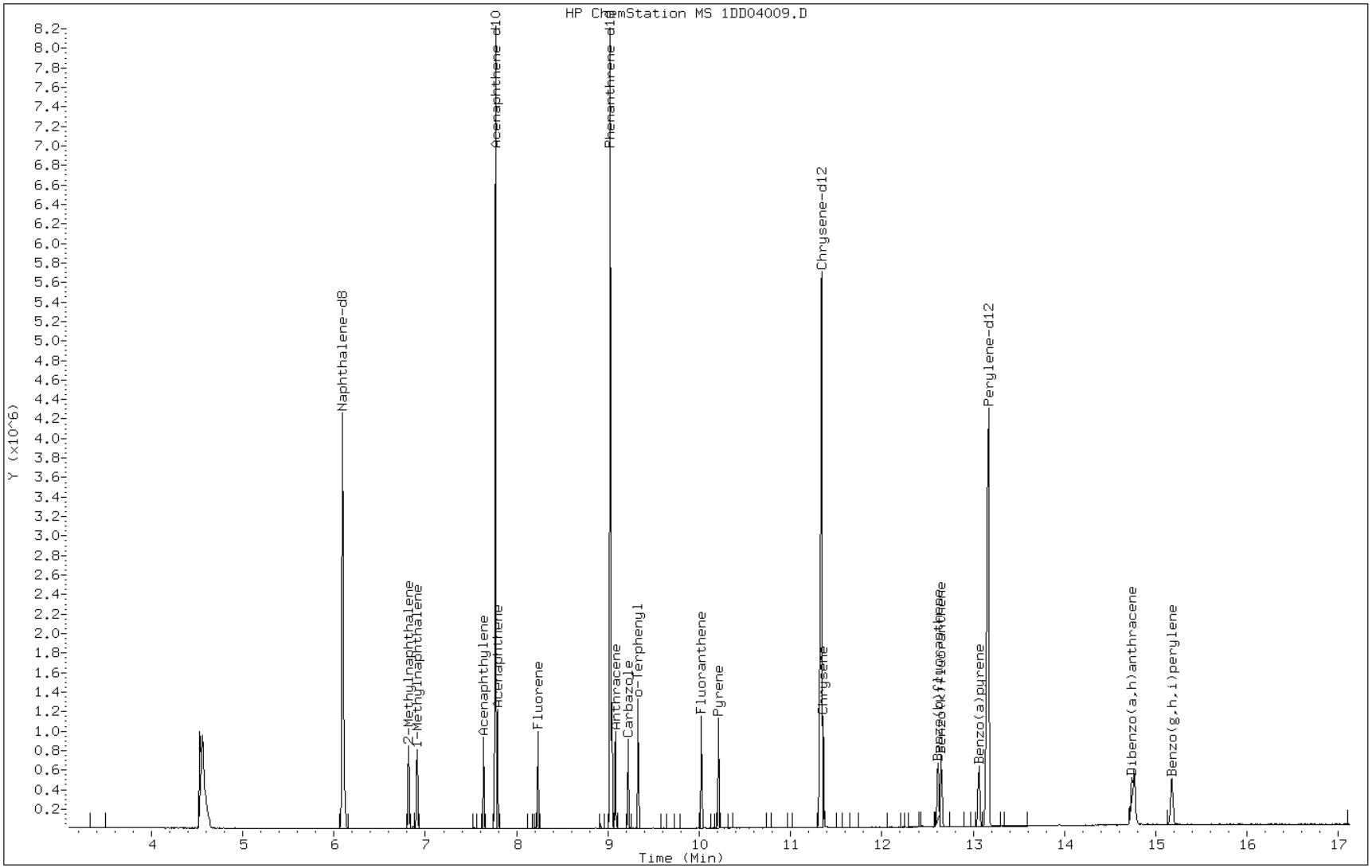
M - Compound response manually integrated.

Data File: 1DD04009.D

Date: 04-APR-2013 14:34

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531399 Operator: SCC



Manual Integration Report

Data File: 1DD04009.D
Inj. Date and Time: 04-APR-2013 14:34
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

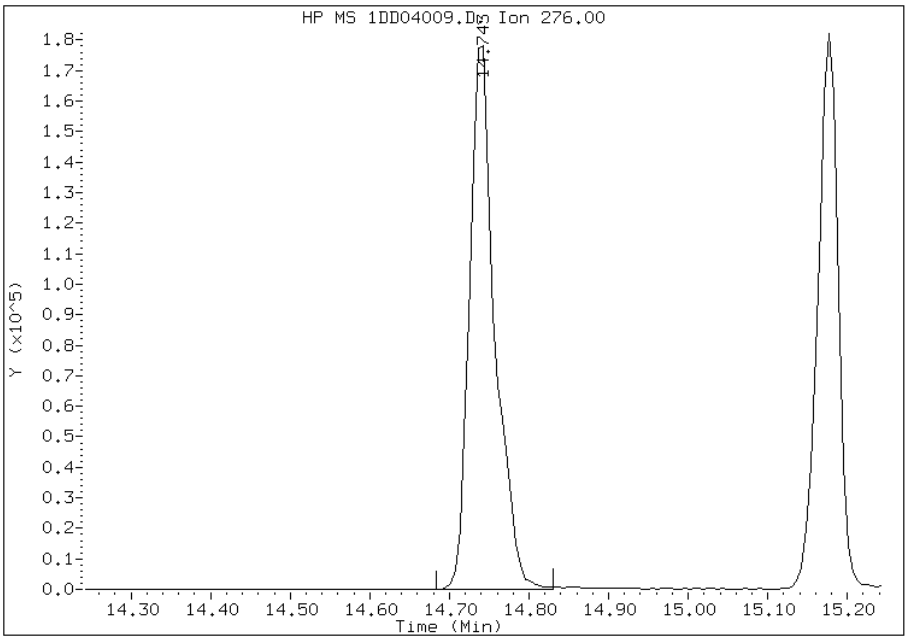
Processing Integration Results

RT: 14.74

Response: 395308

Amount: 5

Conc: 5



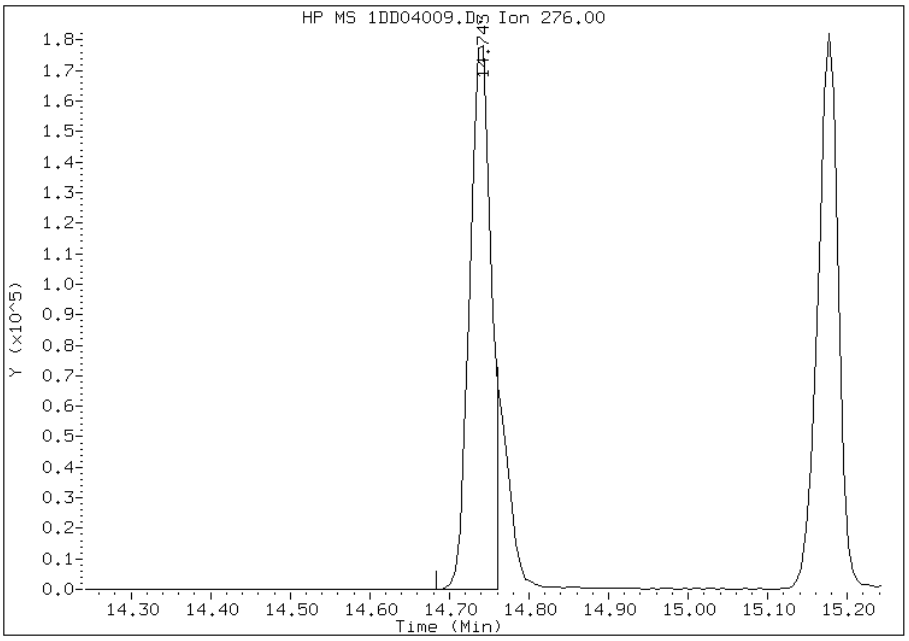
Manual Integration Results

RT: 14.74

Response: 336963

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04010.D
Lab Smp Id: IC-1531400
Inj Date : 04-APR-2013 14:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531400
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:34 Cal File: 1DD04009.D
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.093	6.093	(1.000)	2548377	40.0000	
* 6 Acenaphthene-d10	164	7.767	7.767	(1.000)	1478460	40.0000	
* 9 Phenanthrene-d10	188	9.025	9.025	(1.000)	2445573	40.0000	
$ 13 o-Terphenyl	230	9.330	9.330	(1.034)	360585	10.0000	9.8
* 17 Chrysene-d12	240	11.340	11.340	(1.000)	2472736	40.0000	
* 22 Perylene-d12	264	13.167	13.167	(1.000)	2524268	40.0000	
2 Naphthalene	128	6.110	6.110	(1.003)	614716	10.0000	9.7
3 2-Methylnaphthalene	142	6.816	6.816	(1.119)	401151	10.0000	9.8
4 1-Methylnaphthalene	142	6.910	6.910	(1.134)	377068	10.0000	9.8
5 Acenaphthylene	152	7.638	7.638	(0.983)	620756	10.0000	9.9
7 Acenaphthene	154	7.791	7.791	(1.003)	375673	10.0000	9.7
8 Fluorene	166	8.237	8.237	(1.061)	453336	10.0000	9.9
10 Phenanthrene	178	9.042	9.042	(1.002)	657435	10.0000	9.8
11 Anthracene	178	9.083	9.083	(1.007)	663091	10.0000	9.9
12 Carbazole	167	9.224	9.224	(1.022)	584967	10.0000	9.9
14 Fluoranthene	202	10.024	10.024	(1.111)	684049	10.0000	9.9
15 Pyrene	202	10.212	10.212	(0.901)	738839	10.0000	9.9
16 Benzo(a)anthracene	228	11.322	11.322	(0.998)	655565	10.0000	9.7
18 Chrysene	228	11.363	11.363	(1.002)	641842	10.0000	9.6
19 Benzo(b)fluoranthene	252	12.621	12.621	(0.959)	612455	10.0000	9.7
20 Benzo(k)fluoranthene	252	12.656	12.656	(0.961)	667284	10.0000	10
21 Benzo(a)pyrene	252	13.067	13.067	(0.992)	629684	10.0000	9.9
23 Indeno(1,2,3-cd)pyrene	276	14.747	14.747	(1.120)	647015	10.0000	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.777	14.777	(1.122)	621340	10.0000	9.8
25 Benzo(g,h,i)perylene	276	15.188	15.188	(1.153)	642692	10.0000	9.9

QC Flag Legend

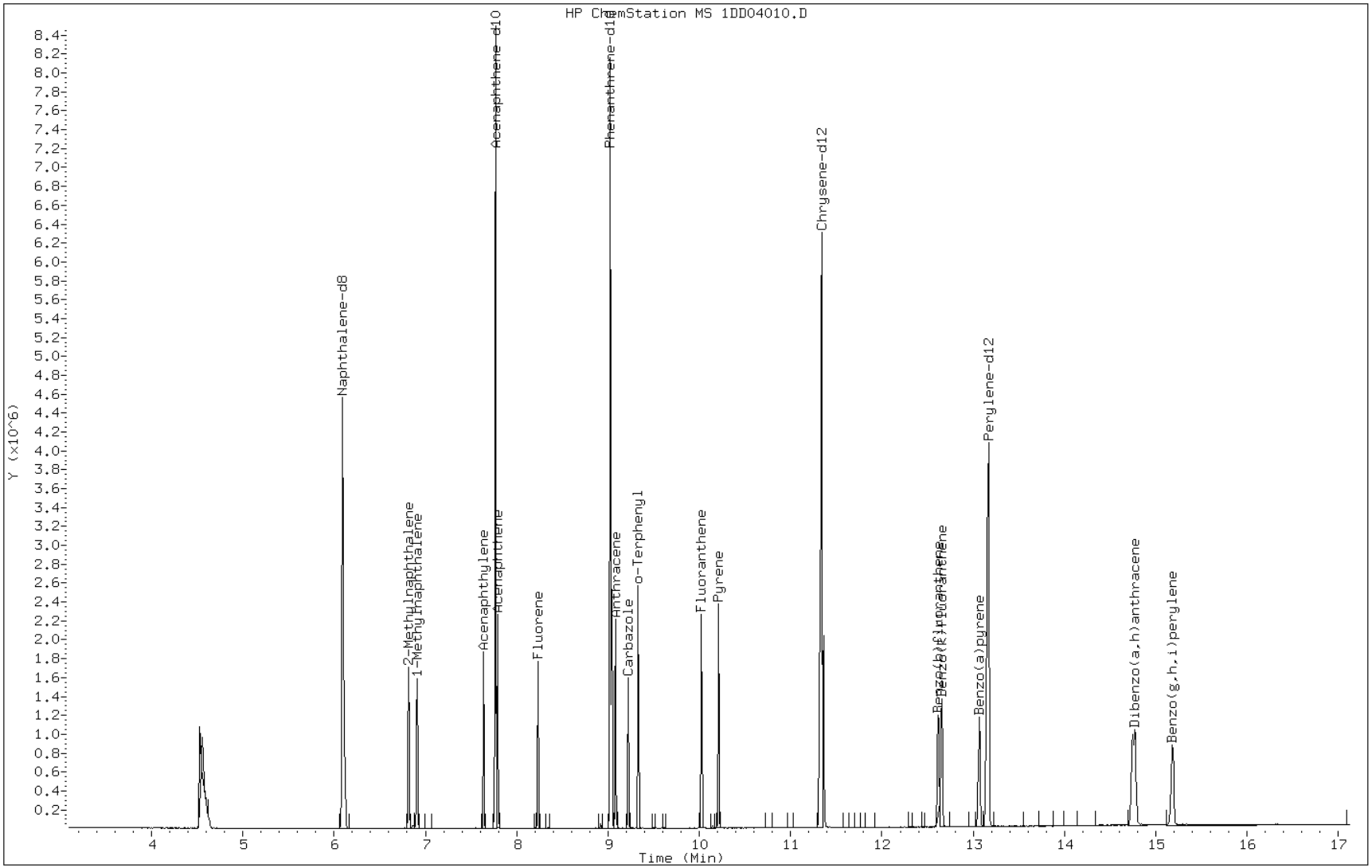
M - Compound response manually integrated.

Data File: 1DD04010.D

Date: 04-APR-2013 14:57

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531400 Operator: SCC



Manual Integration Report

Data File: 1DD04010.D
Inj. Date and Time: 04-APR-2013 14:57
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

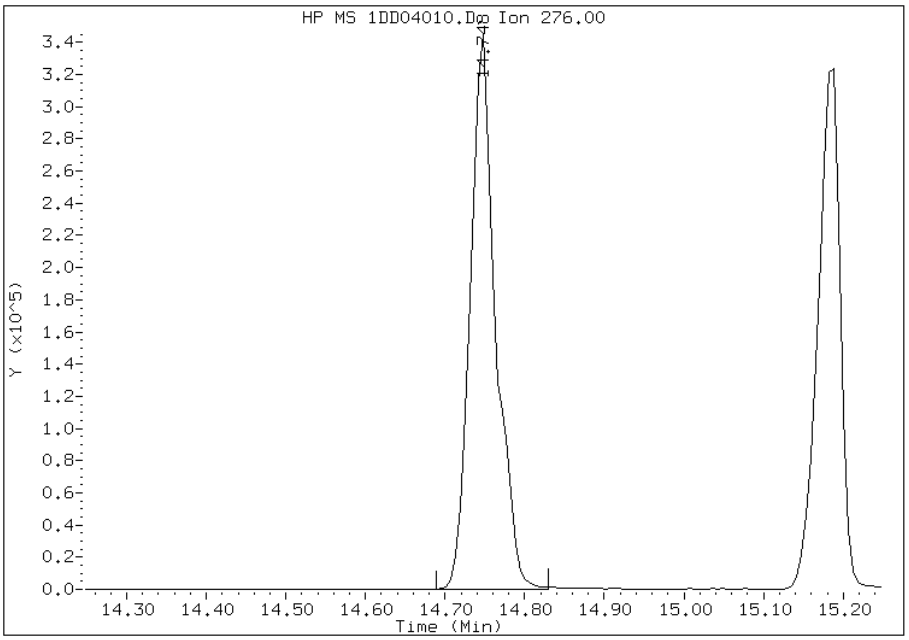
Processing Integration Results

RT: 14.75

Response: 759012

Amount: 10

Conc: 10



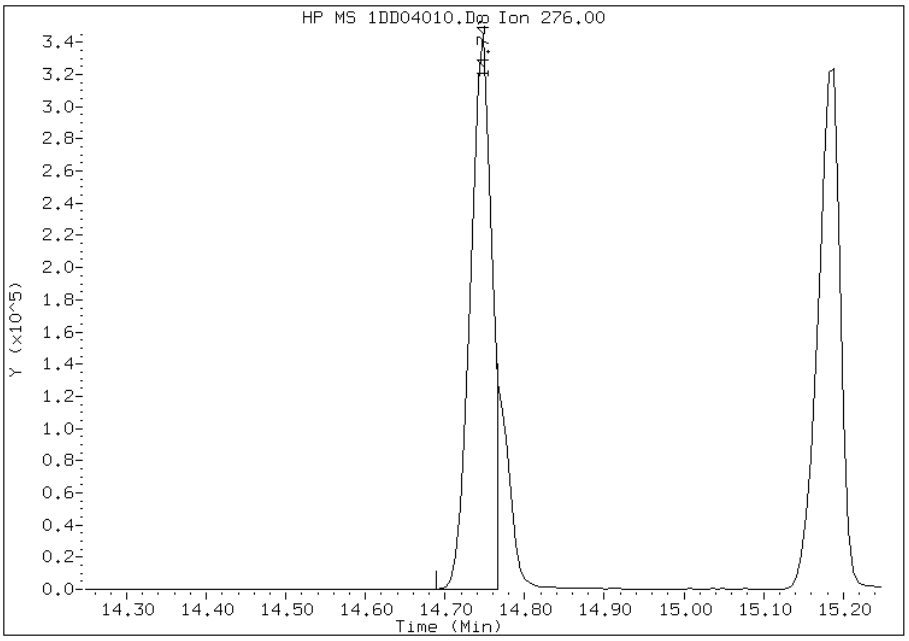
Manual Integration Results

RT: 14.75

Response: 647015

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04011.D
Lab Smp Id: ICIS-1531401
Inj Date : 04-APR-2013 15:19
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 14:57 Cal File: 1DD04010.D
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.089	(1.000)	2475113	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.769	(1.000)	1466924	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2428512	40.0000	
$ 13 o-Terphenyl	230	9.332	9.332	(1.034)	754512	20.0000	21
* 17 Chrysene-d12	240	11.342	11.342	(1.000)	2464730	40.0000	
* 22 Perylene-d12	264	13.169	13.169	(1.000)	2515643	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	1235557	20.0000	20
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	806286	20.0000	20
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	757317	20.0000	20
5 Acenaphthylene	152	7.640	7.640	(0.983)	1275622	20.0000	20
7 Acenaphthene	154	7.793	7.793	(1.003)	757590	20.0000	20
8 Fluorene	166	8.234	8.234	(1.060)	918747	20.0000	20
10 Phenanthrene	178	9.044	9.044	(1.002)	1331875	20.0000	20
11 Anthracene	178	9.086	9.086	(1.007)	1360668	20.0000	20
12 Carbazole	167	9.227	9.227	(1.022)	1202897	20.0000	20
14 Fluoranthene	202	10.026	10.026	(1.111)	1392506	20.0000	20
15 Pyrene	202	10.214	10.214	(0.901)	1496990	20.0000	20
16 Benzo(a)anthracene	228	11.324	11.324	(0.998)	1332372	20.0000	20
18 Chrysene	228	11.365	11.365	(1.002)	1305118	20.0000	20
19 Benzo(b)fluoranthene	252	12.623	12.623	(0.959)	1270704	20.0000	20
20 Benzo(k)fluoranthene	252	12.664	12.664	(0.962)	1319239	20.0000	20
21 Benzo(a)pyrene	252	13.075	13.075	(0.993)	1276688	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	14.761	14.761	(1.121)	1333044	20.0000	20(M)
24 Dibenzo(a,h)anthracene	278	14.785	14.785	(1.123)	1273836	20.0000	20
25 Benzo(g,h,i)perylene	276	15.202	15.202	(1.154)	1285637	20.0000	20

QC Flag Legend

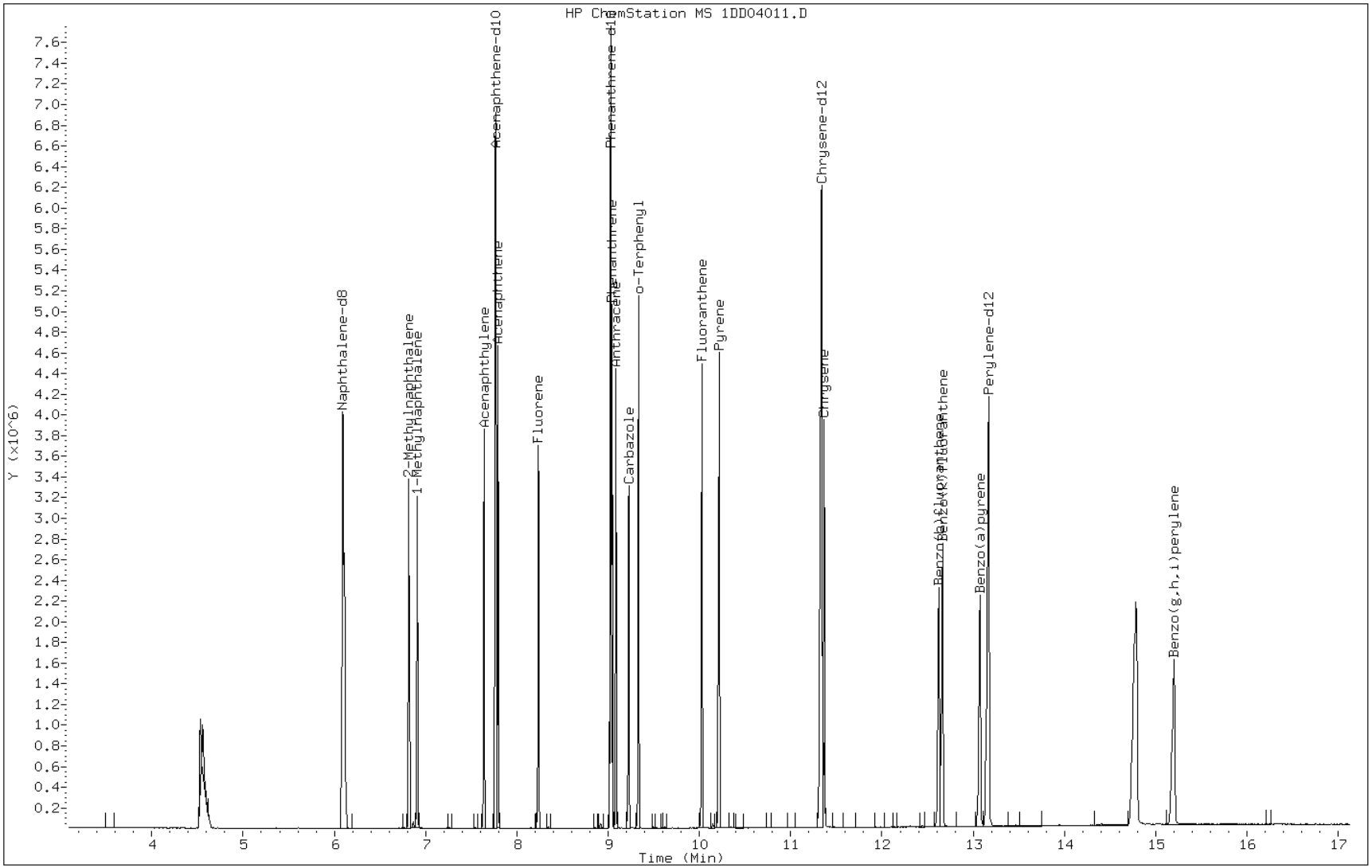
M - Compound response manually integrated.

Data File: 1DD04011.D

Date: 04-APR-2013 15:19

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1DD04011.D
Inj. Date and Time: 04-APR-2013 15:19
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

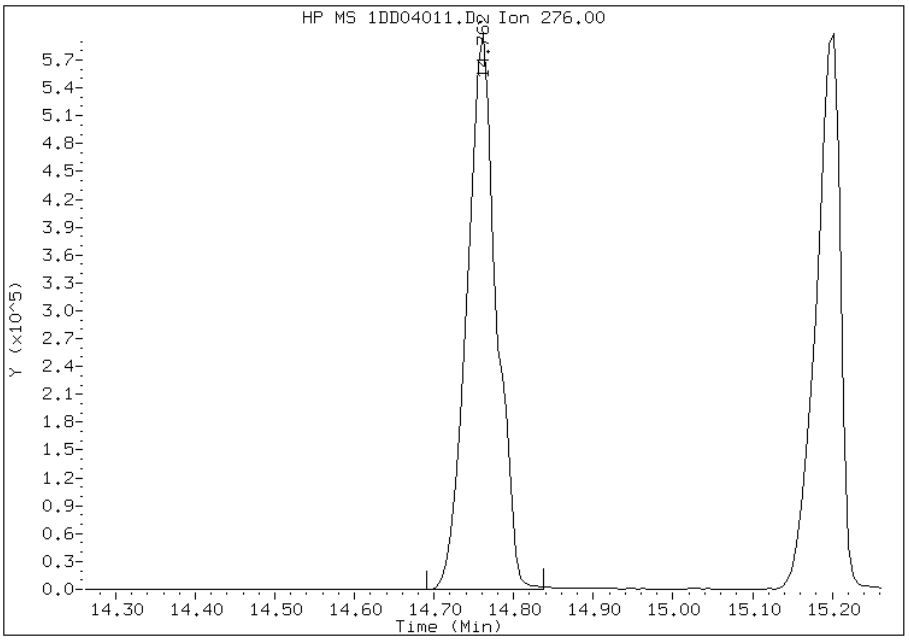
Processing Integration Results

RT: 14.76

Response: 1546230

Amount: 22

Conc: 22



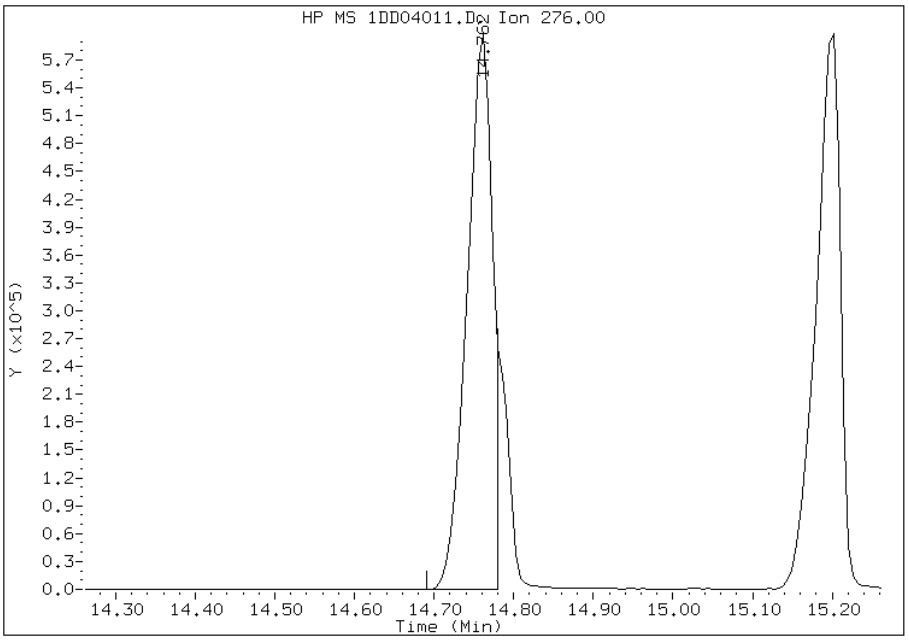
Manual Integration Results

RT: 14.76

Response: 1333044

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04012.D
Lab Smp Id: IC-1531402
Inj Date : 04-APR-2013 15:42
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531402
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:19 Cal File: 1DD04011.D
Als bottle: 10 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2316091	40.0000	
* 6 Acenaphthene-d10	164	7.765	7.765	(1.000)	1349878	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2295562	40.0000	
$ 13 o-Terphenyl	230	9.334	9.334	(1.034)	1074388	30.0000	31
* 17 Chrysene-d12	240	11.343	11.343	(1.000)	2345845	40.0000	
* 22 Perylene-d12	264	13.170	13.170	(1.000)	2343379	40.0000	
2 Naphthalene	128	6.114	6.114	(1.004)	1777021	30.0000	31
3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	1162560	30.0000	31
4 1-Methylnaphthalene	142	6.913	6.913	(1.135)	1096847	30.0000	31
5 Acenaphthylene	152	7.642	7.642	(0.984)	1852399	30.0000	32
7 Acenaphthene	154	7.794	7.794	(1.004)	1100779	30.0000	31
8 Fluorene	166	8.235	8.235	(1.061)	1323451	30.0000	32
10 Phenanthrene	178	9.046	9.046	(1.002)	1932978	30.0000	30
11 Anthracene	178	9.087	9.087	(1.007)	1981347	30.0000	32
12 Carbazole	167	9.228	9.228	(1.022)	1717245	30.0000	31
14 Fluoranthene	202	10.027	10.027	(1.111)	2025512	30.0000	31
15 Pyrene	202	10.215	10.215	(0.901)	2181708	30.0000	31
16 Benzo(a)anthracene	228	11.326	11.326	(0.998)	1914899	30.0000	30
18 Chrysene	228	11.367	11.367	(1.002)	1900592	30.0000	30
19 Benzo(b)fluoranthene	252	12.630	12.630	(0.959)	1811151	30.0000	31
20 Benzo(k)fluoranthene	252	12.671	12.671	(0.962)	1910468	30.0000	31
21 Benzo(a)pyrene	252	13.082	13.082	(0.993)	1854979	30.0000	32
23 Indeno(1,2,3-cd)pyrene	276	14.769	14.769	(1.121)	2011375	30.0000	32(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.798	(1.124)	1840819	30.0000	31
25 Benzo(g,h,i)perylene	276	15.209	15.209	(1.155)	1860821	30.0000	31

QC Flag Legend

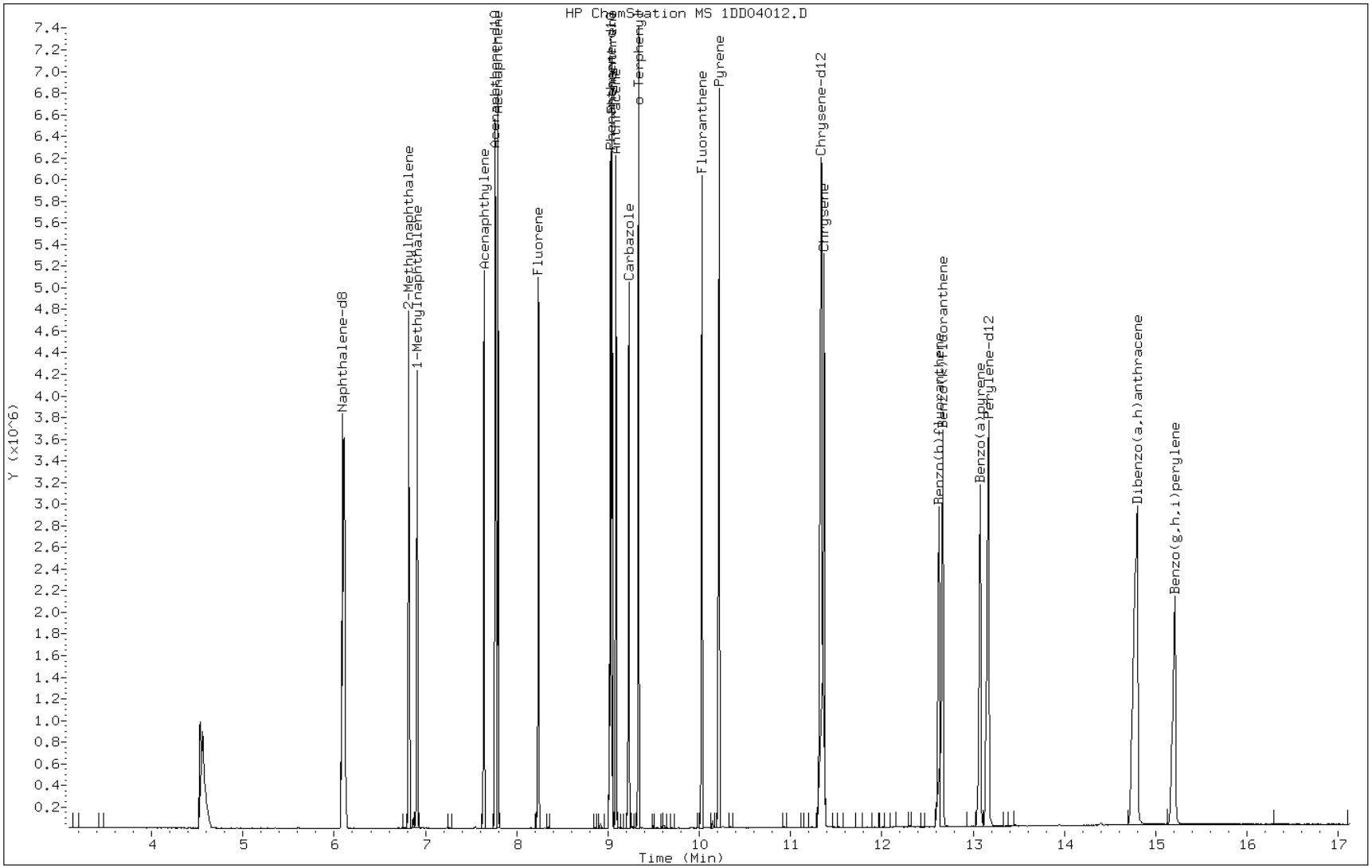
M - Compound response manually integrated.

Data File: 1DD04012.D

Date: 04-APR-2013 15:42

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531402 Operator: SCC



Manual Integration Report

Data File: 1DD04012.D
Inj. Date and Time: 04-APR-2013 15:42
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

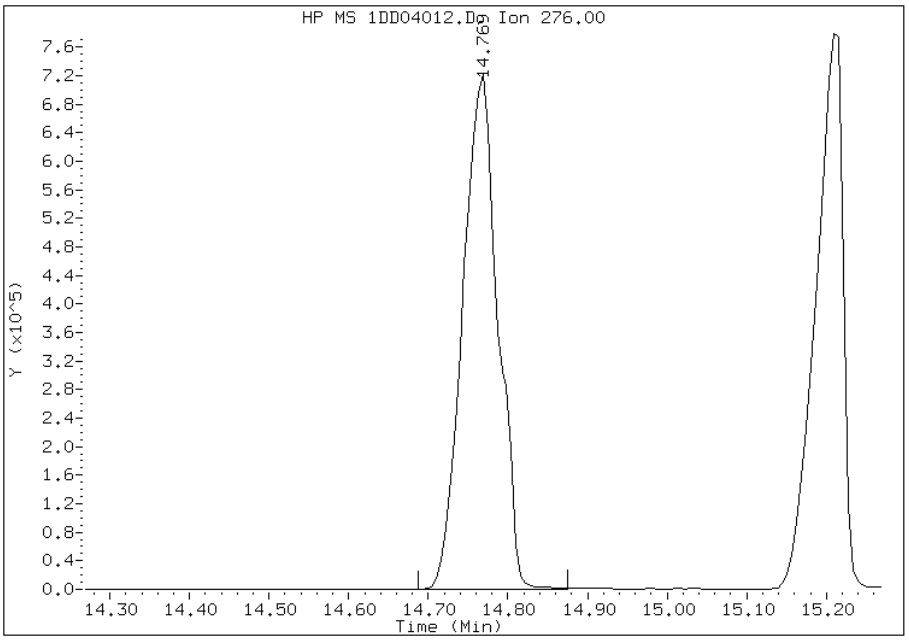
Processing Integration Results

RT: 14.77

Response: 2221522

Amount: 32

Conc: 32



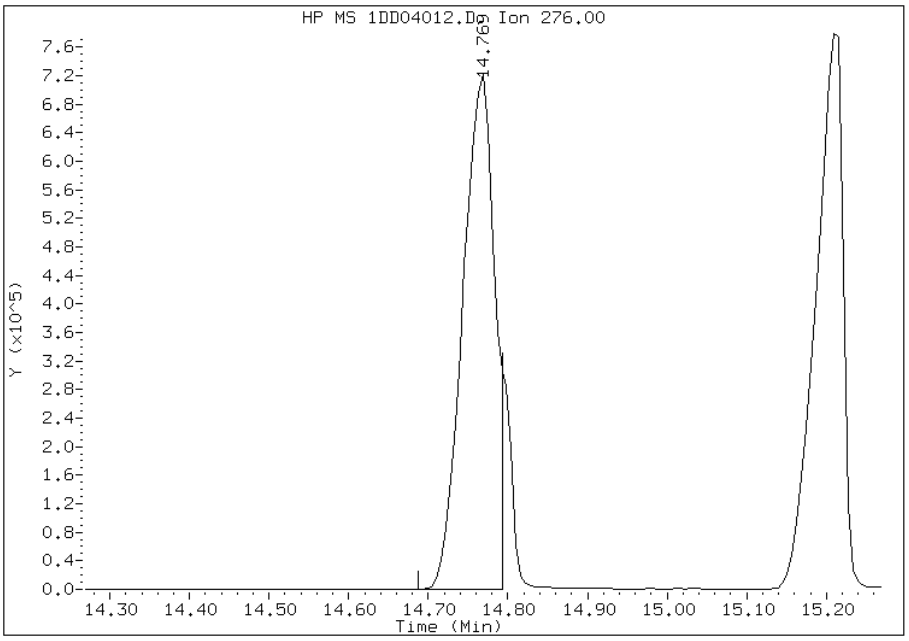
Manual Integration Results

RT: 14.77

Response: 2011375

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04013.D
Lab Smp Id: IC-1531403
Inj Date : 04-APR-2013 16:04
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1531403
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 12:31 BSMSD.i Quant Type: ISTD
Cal Date : 04-APR-2013 15:42 Cal File: 1DD04012.D
Als bottle: 11 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.090	6.090	(1.000)	2444753	40.0000	
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1439391	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.027	(1.000)	2373597	40.0000	
$ 13 o-Terphenyl	230	9.339	9.339	(1.034)	2031596	50.0000	57(A)
* 17 Chrysene-d12	240	11.348	11.348	(1.000)	2479223	40.0000	
* 22 Perylene-d12	264	13.175	13.175	(1.000)	2461140	40.0000	
2 Naphthalene	128	6.113	6.113	(1.004)	3211548	50.0000	53(A)
3 2-Methylnaphthalene	142	6.818	6.818	(1.120)	2134320	50.0000	54(A)
4 1-Methylnaphthalene	142	6.912	6.912	(1.135)	1999874	50.0000	54(A)
5 Acenaphthylene	152	7.641	7.641	(0.983)	3396591	50.0000	56(A)
7 Acenaphthene	154	7.799	7.799	(1.004)	2018481	50.0000	54(A)
8 Fluorene	166	8.240	8.240	(1.060)	2393163	50.0000	54(A)
10 Phenanthrene	178	9.051	9.051	(1.003)	3534794	50.0000	54(A)
11 Anthracene	178	9.092	9.092	(1.007)	3590722	50.0000	55(A)
12 Carbazole	167	9.233	9.233	(1.023)	3137679	50.0000	55(A)
14 Fluoranthene	202	10.032	10.032	(1.111)	3681257	50.0000	55(A)
15 Pyrene	202	10.220	10.220	(0.901)	3965627	50.0000	53(A)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	3388838	50.0000	50(A)
18 Chrysene	228	11.377	11.377	(1.003)	3512644	50.0000	52(A)
19 Benzo(b)fluoranthene	252	12.635	12.635	(0.959)	3290902	50.0000	54(A)
20 Benzo(k)fluoranthene	252	12.682	12.682	(0.963)	3421834	50.0000	53(A)
21 Benzo(a)pyrene	252	13.093	13.093	(0.994)	3327888	50.0000	54(A)
23 Indeno(1,2,3-cd)pyrene	276	14.785	14.785	(1.122)	3754268	50.0000	57(AM)
24 Dibenzo(a,h)anthracene	278	14.826	14.826	(1.125)	3350541	50.0000	54(A)
25 Benzo(g,h,i)perylene	276	15.238	15.238	(1.157)	3284166	50.0000	52(A)

QC Flag Legend

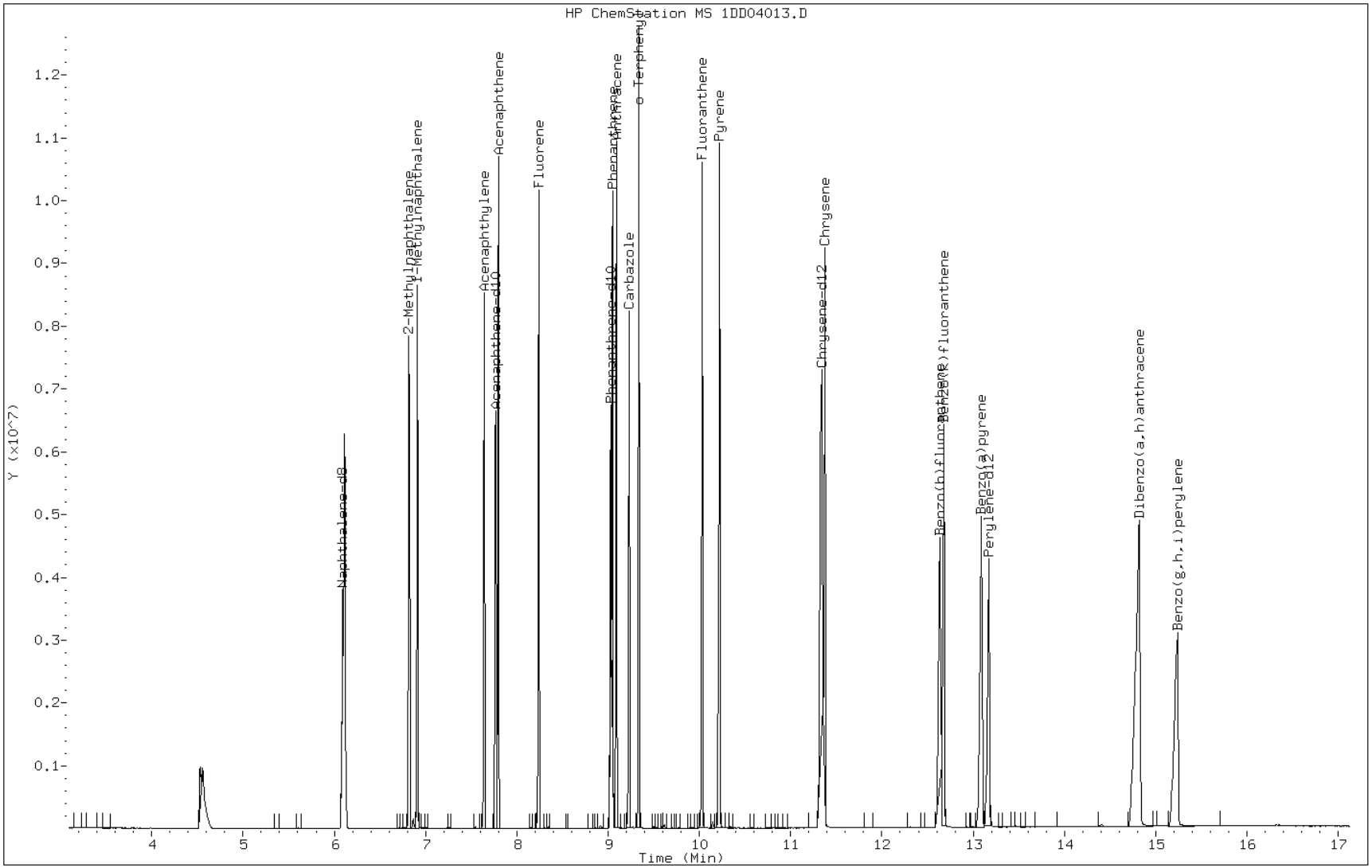
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1DD04013.D

Date: 04-APR-2013 16:04

Client ID: Instrument: BSMSD.i

Sample Info: IC-1531403 Operator: SCC



Manual Integration Report

Data File: 1DD04013.D
Inj. Date and Time: 04-APR-2013 16:04
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

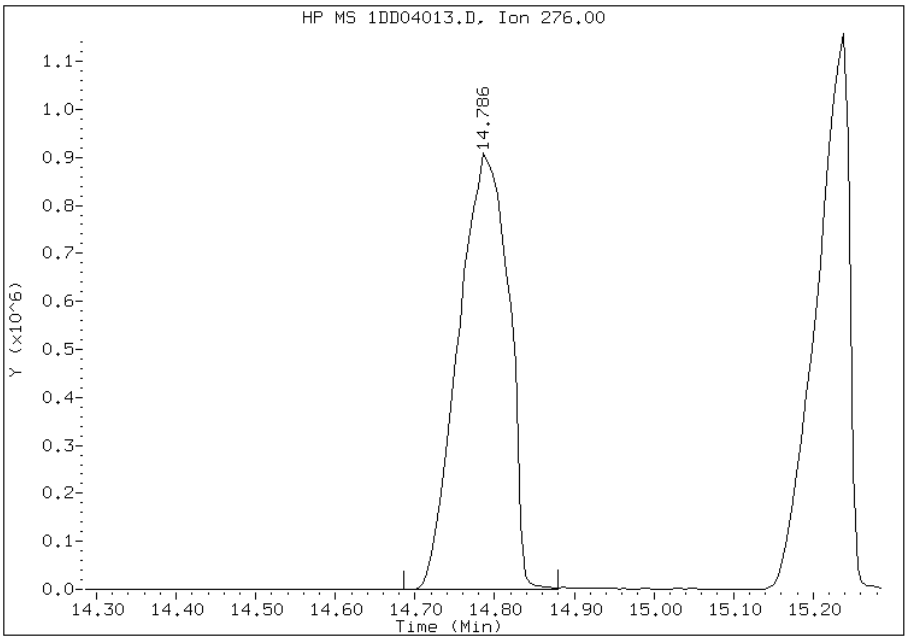
Processing Integration Results

RT: 14.79

Response: 3993028

Amount: 54

Conc: 54



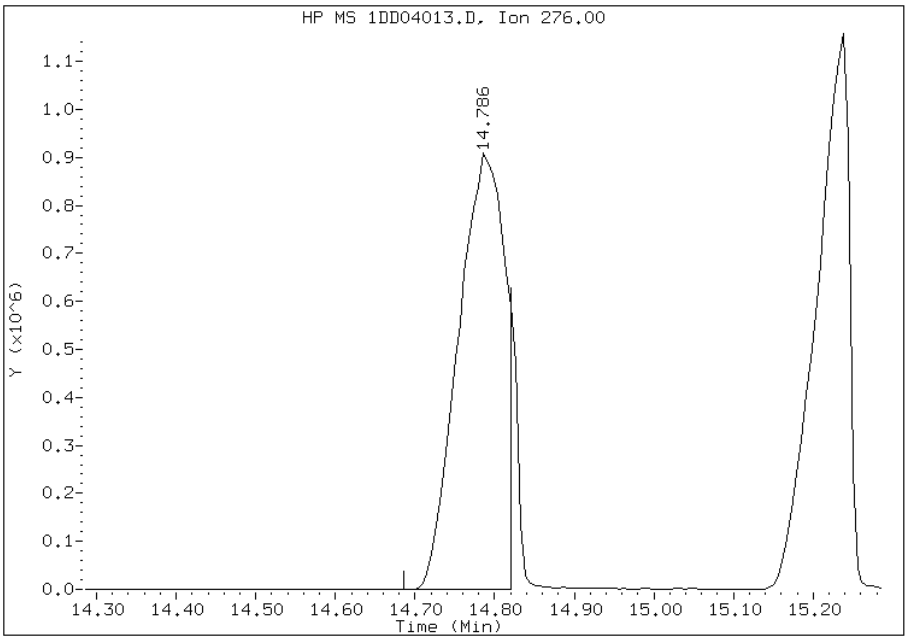
Manual Integration Results

RT: 14.79

Response: 3754268

Amount: 57

Conc: 57



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:30
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab Sample ID: ICV 660-136048/12 Calibration Date: 04/02/2013 15:34

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD02012.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.9549	0.0000	18600	20000	-7.1	35.0
2-Methylnaphthalene	Ave	0.6994	0.5884	0.0000	16800	20000	-15.9	35.0
1-Methylnaphthalene	Ave	0.6293	0.5998	0.0000	19100	20000	-4.7	35.0
Acenaphthylene	Ave	1.656	1.493	0.0000	18000	20000	-9.8	35.0
Acenaphthene	Lin	1.025	0.8508	0.0000	16600	20000	-17.0	35.0
Fluorene	Ave	1.367	1.209	0.0000	17700	20000	-11.5	35.0
Phenanthrene	Ave	1.165	0.9563	0.0000	16400	20000	-17.9	35.0
Anthracene	Ave	1.181	0.9425	0.0000	16000	20000	-20.2	35.0
Carbazole	Ave	1.012	0.8775	0.0000	17300	20000	-13.3	35.0
Fluoranthene	Ave	1.287	1.100	0.0000	17100	20000	-14.5	35.0
Pyrene	Ave	1.108	0.8708	0.0000	15700	20000	-21.4	35.0
Benzo[a]anthracene	Lin	1.278	0.9658	0.0000	16800	20000	-16.0	35.0
Chrysene	Ave	1.140	0.8716	0.0000	15300	20000	-23.5	35.0
Benzo[b]fluoranthene	Ave	1.131	0.8920	0.0000	15800	20000	-21.1	35.0
Benzo[k]fluoranthene	Ave	1.094	0.8978	0.0000	16400	20000	-17.9	35.0
Benzo[a]pyrene	Ave	1.065	0.8060	0.0000	15100	20000	-24.3	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.8744	0.0000	17300	20000	-13.5	35.0
Dibenz(a,h)anthracene	Ave	0.9341	0.8626	0.0000	18500	20000	-7.7	35.0
Benzo[g,h,i]perylene	Ave	1.032	0.8592	0.0000	16600	20000	-16.8	35.0
o-Terphenyl	Lin	0.6233	0.5049	0.0000	16200	20000	-19.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02012.D
Lab Smp Id: ICV-1448440
Inj Date : 02-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\a-bFASTPAHi-m.m
Meth Date : 02-Apr-2013 15:55 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.710	3.710	(1.000)	649122	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.798	(1.000)	500935	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.745	(1.000)	955391	40.0000	
$ 14 o-Terphenyl	230	5.998	5.998	(1.044)	241169	16.1906	16.1906
* 18 Chrysene-d12	240	7.686	7.686	(1.000)	1249690	40.0000	
* 23 Perylene-d12	264	8.856	8.863	(1.000)	1306409	40.0000	
2 Naphthalene	128	3.727	3.728	(1.005)	309919	18.5886	18.5885
3 2-Methylnaphthalene	142	4.151	4.151	(1.119)	190970	16.8266	16.8266
4 1-Methylnaphthalene	142	4.216	4.216	(1.136)	194664	19.0620	19.0620
5 Acenaphthylene	152	4.710	4.710	(0.982)	373939	18.0364	18.0363
7 Acenaphthene	154	4.821	4.822	(1.005)	213089	16.5944	16.5943
9 Fluorene	166	5.139	5.139	(1.071)	302875	17.6930	17.6929
11 Phenanthrene	178	5.763	5.763	(1.003)	456841	16.4181	16.4181
12 Anthracene	178	5.798	5.798	(1.009)	450208	15.9610	15.9609
13 Carbazole	167	5.904	5.904	(1.028)	419186	17.3461	17.3460
15 Fluoranthene	202	6.598	6.598	(1.148)	525545	17.1022	17.1021
16 Pyrene	202	6.763	6.763	(0.880)	544110	15.7178	15.7178
17 Benzo(a)anthracene	228	7.680	7.680	(0.999)	603470	16.8016	16.8016

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
19 Chrysene	228	7.704	7.710	(1.002)	544600	15.2932	15.2931
20 Benzo(b)fluoranthene	252	8.515	8.522	(0.961)	582649	15.7757	15.7757
21 Benzo(k)fluoranthene	252	8.539	8.545	(0.964)	586474	16.4181	16.4181
22 Benzo(a)pyrene	252	8.804	8.810	(0.994)	526495	15.1414	15.1414
24 Indeno(1,2,3-cd)pyrene	276	10.009	10.016	(1.130)	571166	17.2941	17.2940(M)
25 Dibenzo(a,h)anthracene	278	10.021	10.033	(1.131)	563427	18.4677	18.4676
26 Benzo(g,h,i)perylene	276	10.351	10.363	(1.169)	561199	16.6490	16.6490

QC Flag Legend

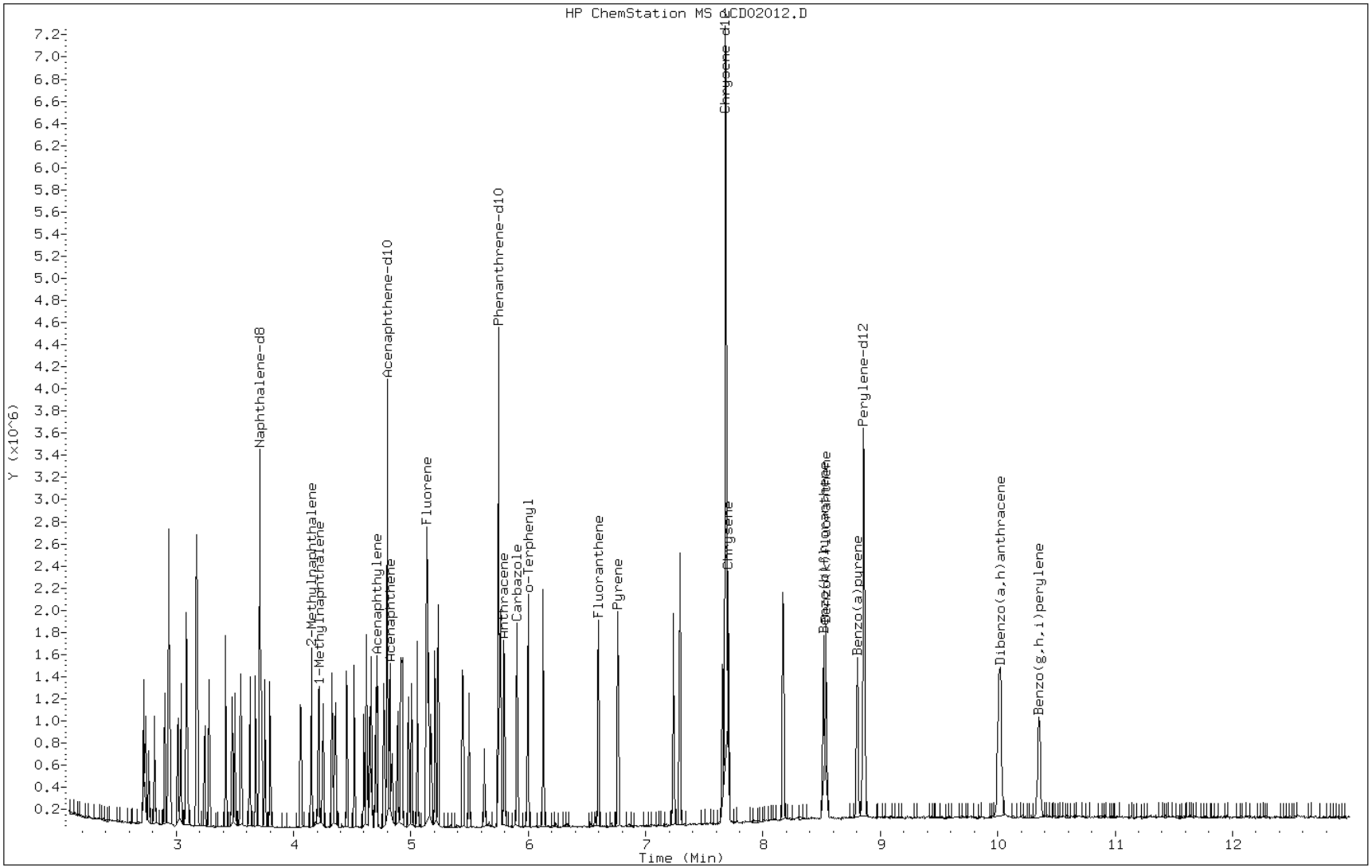
M - Compound response manually integrated.

Data File: 1CD02012.D

Date: 02-APR-2013 15:34

Client ID: Instrument: BSMC5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1CD02012.D
Inj. Date and Time: 02-APR-2013 15:34
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/02/2013

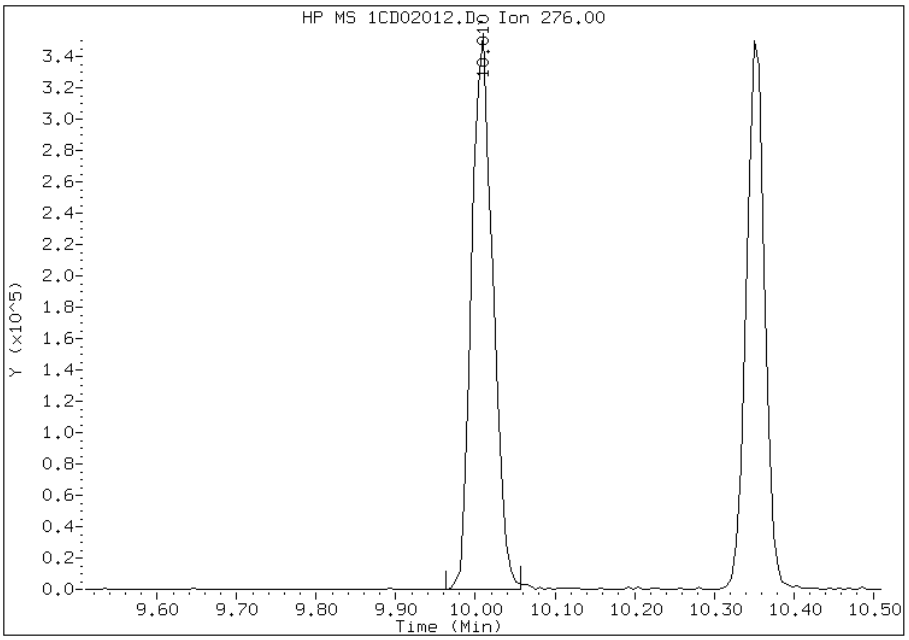
Processing Integration Results

RT: 10.01

Response: 653584

Amount: 20

Conc: 20



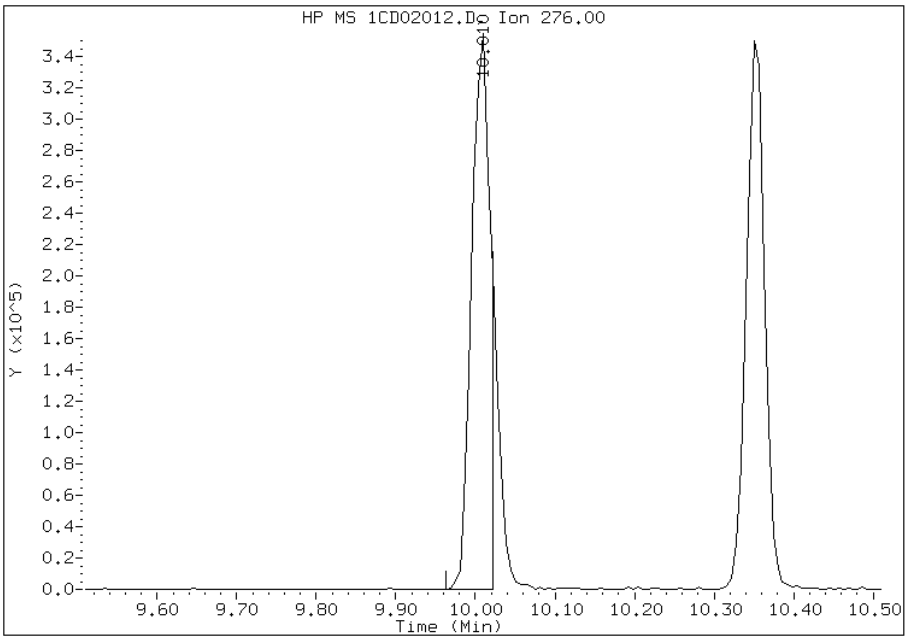
Manual Integration Results

RT: 10.01

Response: 571166

Amount: 17

Conc: 17



Manually Integrated By: cantins
Modification Date: 02-Apr-2013 15:57
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab Sample ID: CCVIS 660-136081/3 Calibration Date: 04/03/2013 11:45

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	0.999	0.0000	19400	20000	-2.8	20.0
2-Methylnaphthalene	Ave	0.6994	0.6776	0.0000	19400	20000	-3.1	20.0
1-Methylnaphthalene	Ave	0.6293	0.6430	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.656	1.706	0.0000	20600	20000	3.1	20.0
Acenaphthene	Lin	1.025	0.9817	0.0000	19100	20000	-4.3	20.0
Fluorene	Ave	1.367	1.328	0.0000	19400	20000	-2.9	20.0
Phenanthrene	Ave	1.165	1.152	0.0000	19800	20000	-1.1	20.0
Anthracene	Ave	1.181	1.140	0.0000	19300	20000	-3.5	20.0
Carbazole	Ave	1.012	1.032	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	1.287	1.311	0.0000	20400	20000	1.9	20.0
Pyrene	Ave	1.108	1.146	0.0000	20700	20000	3.5	20.0
Benzo[a]anthracene	Lin	1.278	1.115	0.0000	19400	20000	-3.1	20.0
Chrysene	Ave	1.140	1.082	0.0000	19000	20000	-5.1	20.0
Benzo[b]fluoranthene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Benzo[k]fluoranthene	Ave	1.094	1.068	0.0000	19500	20000	-2.4	20.0
Benzo[a]pyrene	Ave	1.065	1.055	0.0000	19800	20000	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9599	0.0000	19000	20000	-5.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9411	0.0000	20200	20000	0.8	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.995	0.0000	19300	20000	-3.6	20.0
o-Terphenyl	Lin	0.6233	0.6314	0.0000	20100	20000	0.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03003.D
Lab Smp Id: CCVIS-1531401
Inj Date : 03-APR-2013 11:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.704	3.704	(1.000)	500765	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	364027	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	687020	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	216882	20.0000	20.0659
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	857573	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	866012	40.0000	
2 Naphthalene	128	3.722	3.722	(1.005)	250131	20.0000	19.4472
3 2-Methylnaphthalene	142	4.145	4.145	(1.119)	169659	20.0000	19.3776
4 1-Methylnaphthalene	142	4.210	4.210	(1.137)	161005	20.0000	20.4368
5 Acenaphthylene	152	4.704	4.704	(0.982)	310521	20.0000	20.6104
7 Acenaphthene	154	4.816	4.816	(1.005)	178686	20.0000	19.1486
9 Fluorene	166	5.133	5.133	(1.071)	241638	20.0000	19.4245
11 Phenanthrene	178	5.757	5.757	(1.003)	395730	20.0000	19.7773
12 Anthracene	178	5.792	5.792	(1.009)	391504	20.0000	19.3016
13 Carbazole	167	5.898	5.898	(1.028)	354598	20.0000	20.4052
15 Fluoranthene	202	6.592	6.592	(1.149)	450430	20.0000	20.3836
16 Pyrene	202	6.757	6.757	(0.880)	491523	20.0000	20.6909
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	478063	20.0000	19.3750
19 Chrysene	228	7.698	7.698	(1.002)	463959	20.0000	18.9858
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	508197	20.0000	20.7572
21 Benzo(k)fluoranthene	252	8.533	8.533	(0.964)	462286	20.0000	19.5227
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	456933	20.0000	19.8234
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	415659	20.0000	18.9857(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	407517	20.0000	20.1500
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	431010	20.0000	19.2892

QC Flag Legend

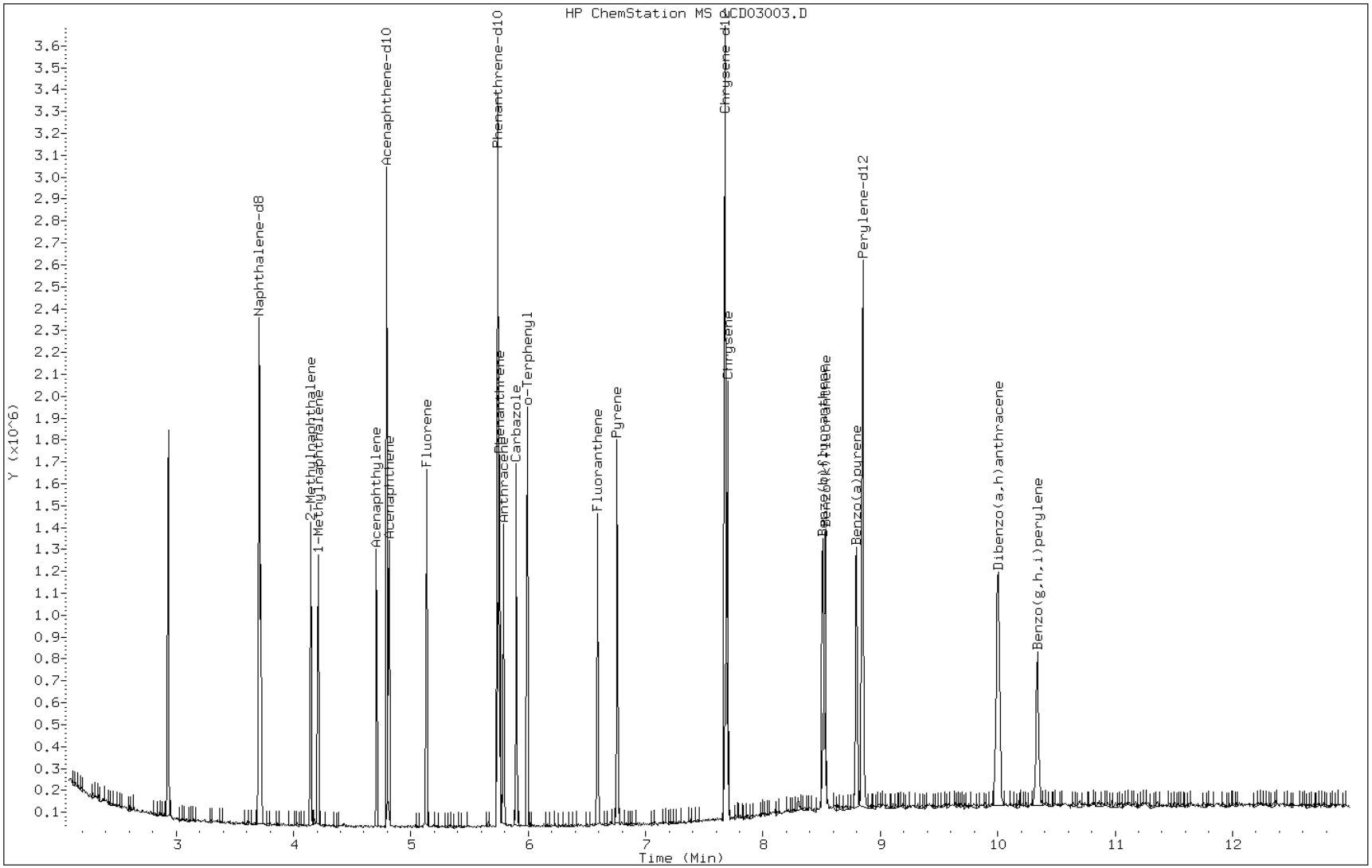
M - Compound response manually integrated.

Data File: 1CD03003.D

Date: 03-APR-2013 11:45

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD03003.D
Inj. Date and Time: 03-APR-2013 11:45
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/03/2013

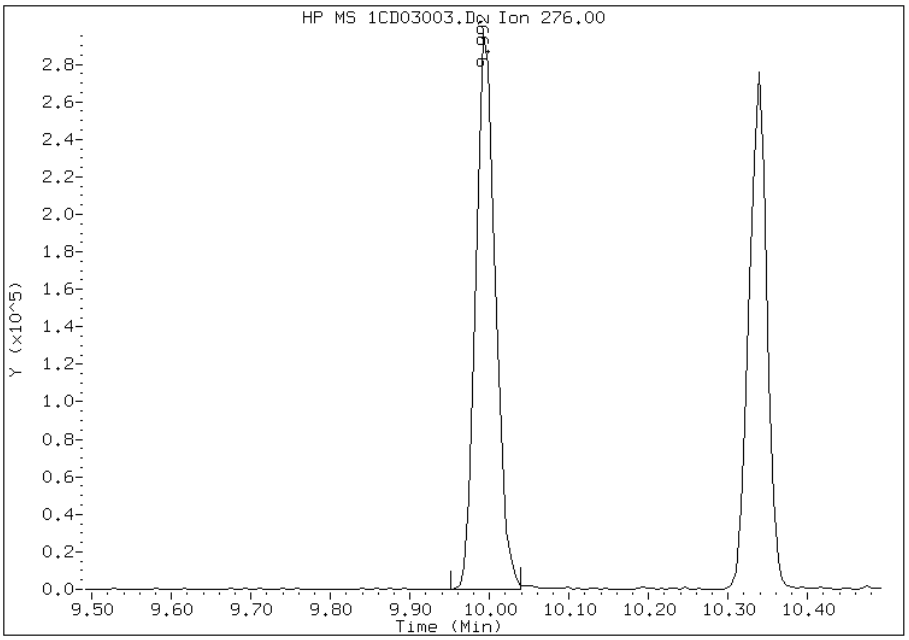
Processing Integration Results

RT: 9.99

Response: 506304

Amount: 23

Conc: 23



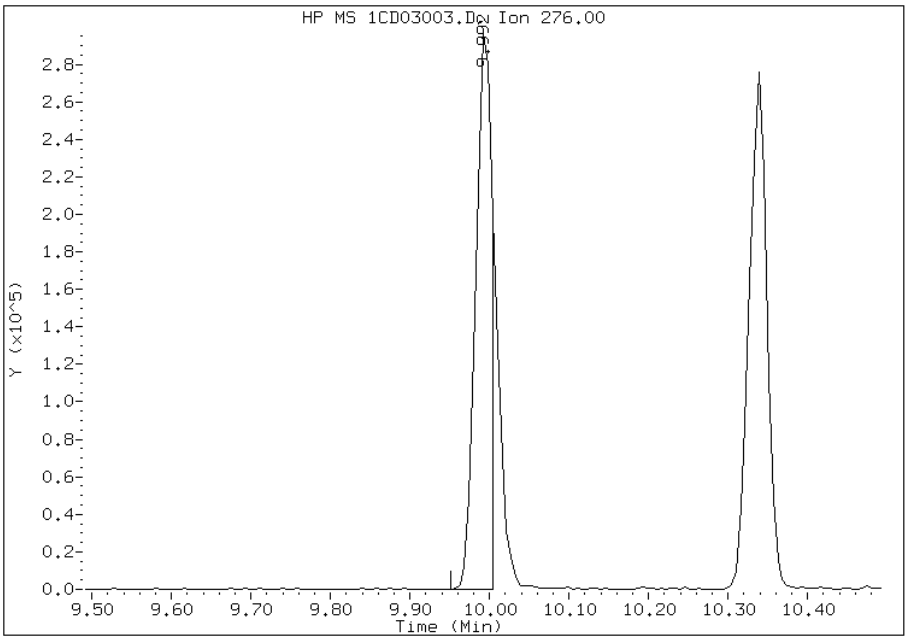
Manual Integration Results

RT: 9.99

Response: 415659

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 03-Apr-2013 11:59
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab Sample ID: CCVIS 660-136171/4 Calibration Date: 04/05/2013 12:15

Instrument ID: BSMC5973 Calib Start Date: 04/02/2013 13:26

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/02/2013 15:15

Lab File ID: 1CD05004.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.027	1.032	0.0000	2000	20.0	0.5	20.0
2-Methylnaphthalene	Ave	0.6994	0.7098	0.0000	2000	20.0	1.5	20.0
1-Methylnaphthalene	Ave	0.6293	0.6324	0.0000	2000	20.0	0.5	20.0
Acenaphthylene	Ave	1.656	1.686	0.0000	1000	20.0	1.8	20.0
Acenaphthene	Lin	1.025	0.9558	0.0000	2000	20.0	-6.8	20.0
Fluorene	Ave	1.367	1.254	0.0000	2000	20.0	-8.2	20.0
Phenanthrene	Ave	1.165	1.127	0.0000	500	20.0	-3.2	20.0
Anthracene	Ave	1.181	1.206	0.0000	200	20.0	2.1	20.0
Carbazole	Ave	1.012	1.040	0.0000	1000	20.0	2.8	20.0
Fluoranthene	Ave	1.287	1.346	0.0000	500	20.0	4.6	20.0
Pyrene	Ave	1.108	1.077	0.0000	500	20.0	-2.8	20.0
Benzo[a]anthracene	Lin	1.278	1.101	0.0000	200	20.0	-4.3	20.0
Chrysene	Ave	1.140	1.074	0.0000	200	20.0	-5.8	20.0
Benzo[b]fluoranthene	Ave	1.131	1.071	0.0000	200	20.0	-5.3	20.0
Benzo[k]fluoranthene	Ave	1.094	1.162	0.0000	200	20.0	6.3	20.0
Benzo[a]pyrene	Ave	1.065	1.057	0.0000	200	20.0	-0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	0.9896	0.0000	200	20.0	-2.1	20.0
Dibenz(a,h)anthracene	Ave	0.9341	0.9614	0.0000	200	20.0	2.9	20.0
Benzo[g,h,i]perylene	Ave	1.032	0.9820	0.0000	500	20.0	-4.9	20.0
o-Terphenyl	Lin	0.6233	0.6473	0.0000	20.6	20.0	2.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05004.D
Lab Smp Id: CCVIS-1531401
Inj Date : 05-APR-2013 12:15
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1531401
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	392528	40.0000	
* 6 Acenaphthene-d10	164	4.780	4.780	(1.000)	289150	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	539578	40.0000	(H)
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	174628	20.0000	20.5532
* 18 Chrysene-d12	240	7.662	7.662	(1.000)	739705	40.0000	
* 23 Perylene-d12	264	8.827	8.827	(1.000)	746693	40.0000	(H)
2 Naphthalene	128	3.704	3.704	(1.003)	202593	20.0000	20.0945
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	139304	20.0000	20.2978
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	124123	20.0000	20.0997
5 Acenaphthylene	152	4.692	4.692	(0.982)	243681	20.0000	20.3623
7 Acenaphthene	154	4.798	4.798	(1.004)	138184	20.0000	18.6430
9 Fluorene	166	5.116	5.116	(1.070)	181351	20.0000	18.3533
11 Phenanthrene	178	5.739	5.739	(1.003)	304115	20.0000	19.3518(H)
12 Anthracene	178	5.774	5.774	(1.009)	325239	20.0000	20.4162(H)
13 Carbazole	167	5.880	5.880	(1.028)	280645	20.0000	20.5626(H)
15 Fluoranthene	202	6.574	6.574	(1.149)	363056	20.0000	20.9190(H)
16 Pyrene	202	6.739	6.739	(0.879)	398242	20.0000	19.4355
17 Benzo(a)anthracene	228	7.651	7.651	(0.998)	407283	20.0000	19.1383
19 Chrysene	228	7.680	7.680	(1.002)	397270	20.0000	18.8472
20 Benzo(b)fluoranthene	252	8.486	8.486	(0.961)	399687	20.0000	18.9338(H)
21 Benzo(k)fluoranthene	252	8.509	8.509	(0.964)	433951	20.0000	21.2545(H)
22 Benzo(a)pyrene	252	8.774	8.774	(0.994)	394530	20.0000	19.8513(H)
24 Indeno(1,2,3-cd)pyrene	276	9.962	9.962	(1.129)	369463	20.0000	19.5723(MH)
25 Dibenzo(a,h)anthracene	278	9.980	9.980	(1.131)	358939	20.0000	20.5841(H)
26 Benzo(g,h,i)perylene	276	10.303	10.303	(1.167)	366622	20.0000	19.0294(H)

QC Flag Legend

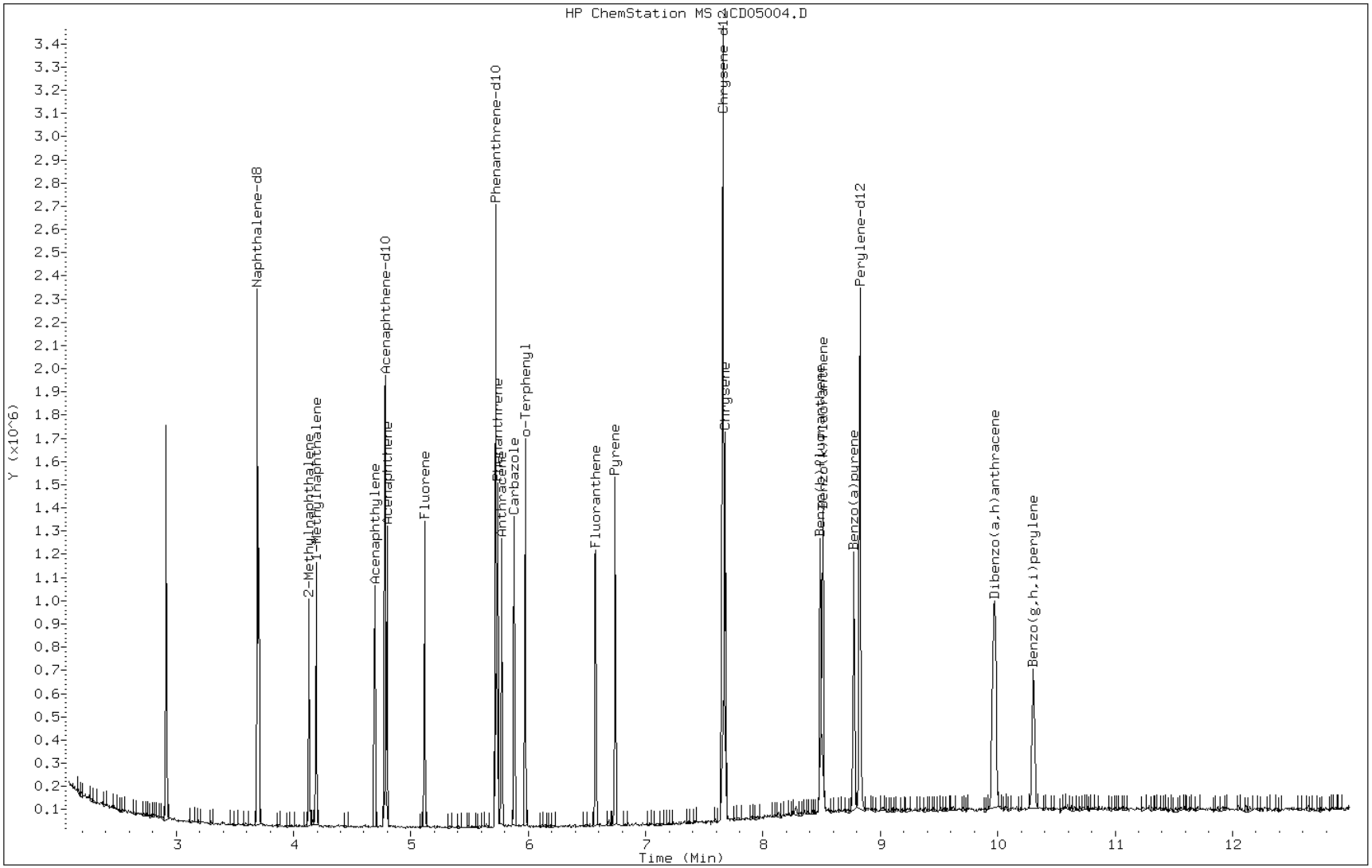
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CD05004.D

Date: 05-APR-2013 12:15

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1531401 Operator: SCC



Manual Integration Report

Data File: 1CD05004.D
Inj. Date and Time: 05-APR-2013 12:15
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

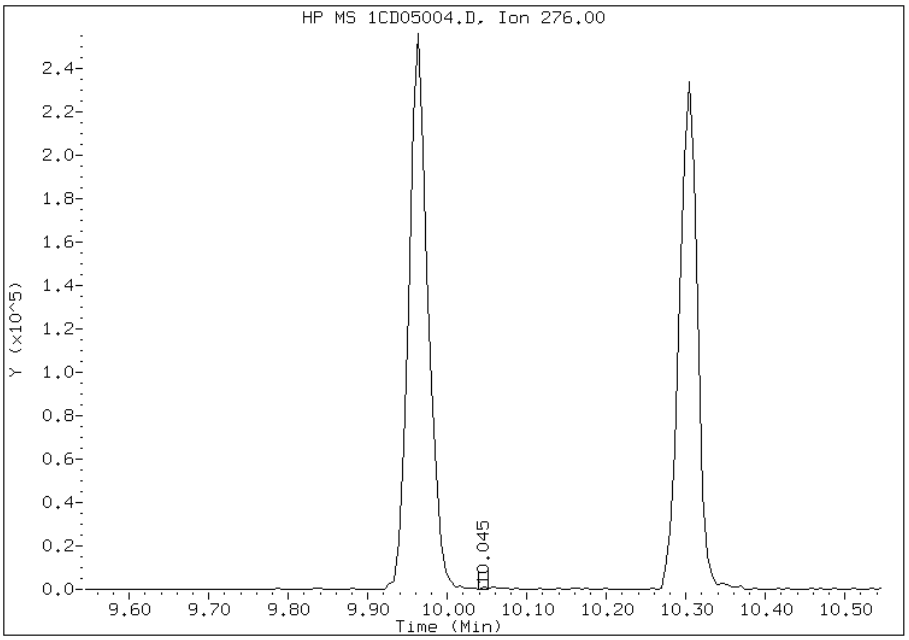
Processing Integration Results

RT: 10.05

Response: 614

Amount: 0

Conc: 0



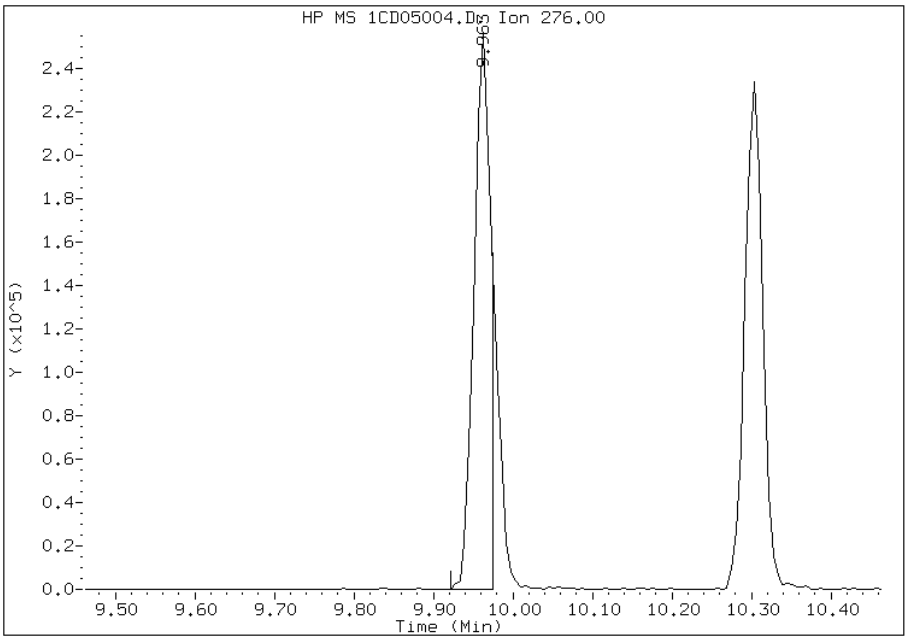
Manual Integration Results

RT: 9.96

Response: 369463

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 12:33
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Lab Sample ID: ICV 660-136164/22 Calibration Date: 04/04/2013 16:27

Instrument ID: BSMD5973 Calib Start Date: 04/04/2013 13:49

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 04/04/2013 16:04

Lab File ID: 1DD04014.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9942	0.9009	0.0000	2000	20.0	-9.4	35.0
2-Methylnaphthalene	Ave	0.6418	0.5957	0.0000	2000	20.0	-7.2	35.0
1-Methylnaphthalene	Ave	0.6061	0.5697	0.0000	2000	20.0	-6.0	35.0
Acenaphthylene	Ave	1.693	1.431	0.0000	1000	20.0	-15.5	35.0
Acenaphthene	Ave	1.045	0.8522	0.0000	2000	20.0	-18.5	35.0
Fluorene	Ave	1.238	1.099	0.0000	2000	20.0	-11.2	35.0
Phenanthrene	Ave	1.102	0.8997	0.0000	500	20.0	-18.3	35.0
Anthracene	Ave	1.094	0.9197	0.0000	200	20.0	-15.9	35.0
Carbazole	Ave	0.9646	0.6860	0.0000	1000	20.0	-28.9	35.0
Fluoranthene	Ave	1.134	0.9937	0.0000	500	20.0	-12.4	35.0
Pyrene	Ave	1.201	0.9577	0.0000	500	20.0	-20.3	35.0
Benzo[a]anthracene	Ave	1.156	0.9847	0.0000	200	20.0	-14.9	35.0
Chrysene	Ave	1.084	0.8727	0.0000	200	20.0	-19.5	35.0
Benzo[b]fluoranthene	Ave	0.999	0.8893	0.0000	200	20.0	-11.0	35.0
Benzo[k]fluoranthene	Ave	1.053	0.8752	0.0000	200	20.0	-16.9	35.0
Benzo[a]pyrene	Ave	1.004	0.7657	0.0000	200	20.0	-23.7	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.071	0.8560	0.0000	200	20.0	-20.0	35.0
Dibenz(a,h)anthracene	Ave	1.008	0.9464	0.0000	200	20.0	-6.1	35.0
Benzo[g,h,i]perylene	Ave	1.031	0.8761	0.0000	500	20.0	-15.0	35.0
o-Terphenyl	Ave	0.6027	0.4989	0.0000	16.6	20.0	-17.2	35.0

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04014.D
Lab Smp Id: ICV-1448440
Inj Date : 04-APR-2013 16:27
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.096	6.090	(1.000)	3619899	40.0000	
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	2333423	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	3845474	40.0000	
$ 13 o-Terphenyl	230	9.334	9.339	(1.034)	959307	16.5566	16
* 17 Chrysene-d12	240	11.349	11.349	(1.000)	3963674	40.0000	
* 22 Perylene-d12	264	13.182	13.176	(1.000)	3958481	40.0000	
2 Naphthalene	128	6.114	6.114	(1.003)	1630598	18.1229	18
3 2-Methylnaphthalene	142	6.819	6.819	(1.119)	1078163	18.5630	18
4 1-Methylnaphthalene	142	6.913	6.913	(1.134)	1031118	18.7992	19
5 Acenaphthylene	152	7.642	7.641	(0.983)	1669244	16.9019	17
7 Acenaphthene	154	7.800	7.800	(1.004)	994282	16.3100	16
8 Fluorene	166	8.241	8.240	(1.060)	1281905	17.7572	18
10 Phenanthrene	178	9.046	9.051	(1.002)	1729949	16.3322	16
11 Anthracene	178	9.087	9.092	(1.007)	1768381	16.8207	17
12 Carbazole	167	9.228	9.233	(1.022)	1319041	14.2242	14(M)
14 Fluoranthene	202	10.027	10.032	(1.111)	1910613	17.5287	18
15 Pyrene	202	10.215	10.220	(0.900)	1898084	15.9464	16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.325	11.325	(0.998)	1951469	17.0289	17
18 Chrysene	228	11.372	11.378	(1.002)	1729613	16.0966	16
19 Benzo(b)fluoranthene	252	12.630	12.635	(0.958)	1760131	17.8000	18
20 Benzo(k)fluoranthene	252	12.671	12.682	(0.961)	1732123	16.6271	17
21 Benzo(a)pyrene	252	13.076	13.094	(0.992)	1515587	15.2542	15
23 Indeno(1,2,3-cd)pyrene	276	14.763	14.786	(1.120)	1694283	15.9925	16(M)
24 Dibenzo(a,h)anthracene	278	14.798	14.827	(1.123)	1873209	18.7764	19
25 Benzo(g,h,i)perylene	276	15.215	15.238	(1.154)	1734029	16.9990	17(H)

QC Flag Legend

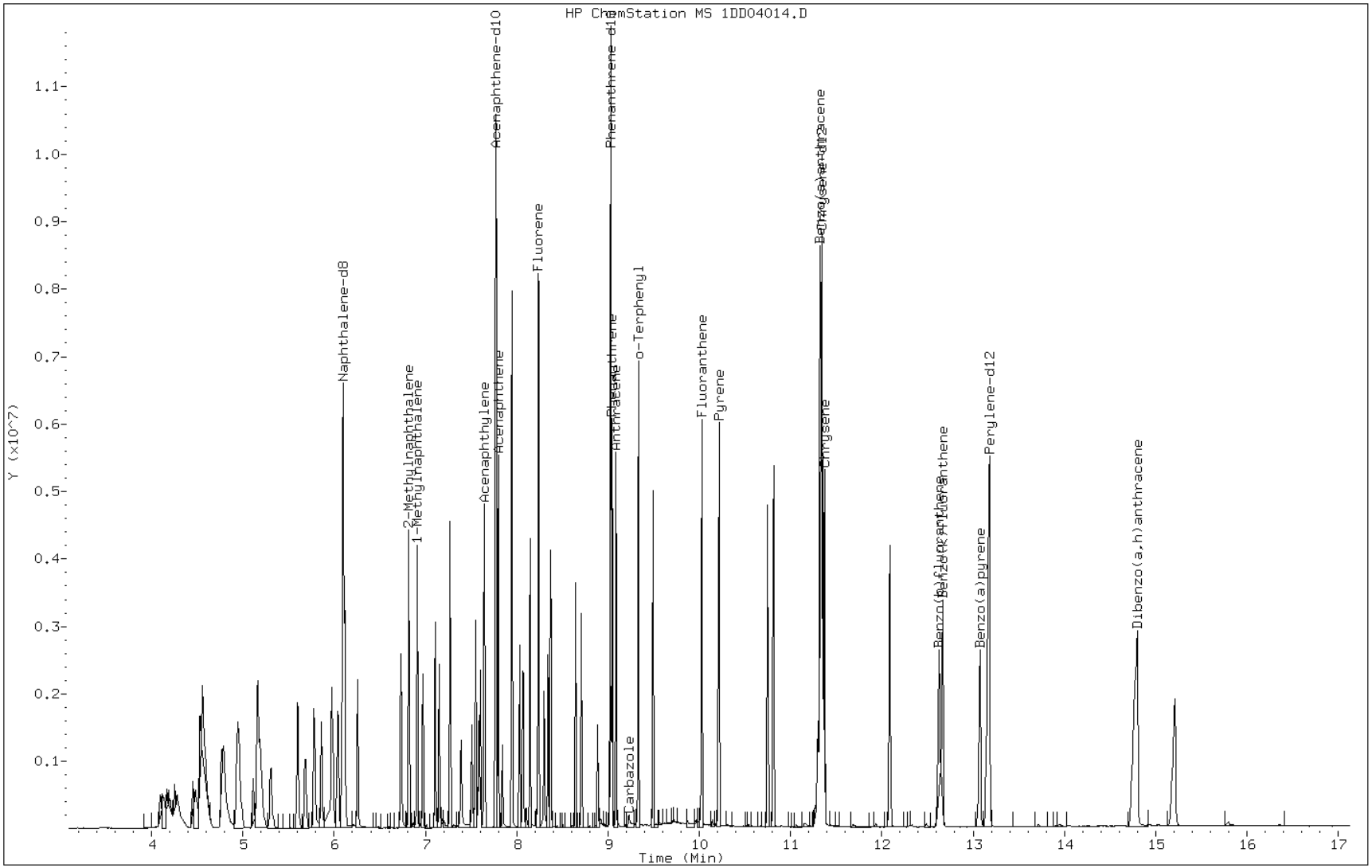
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04014.D

Date: 04-APR-2013 16:27

Client ID: Instrument: BSMSD.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 04/05/2013

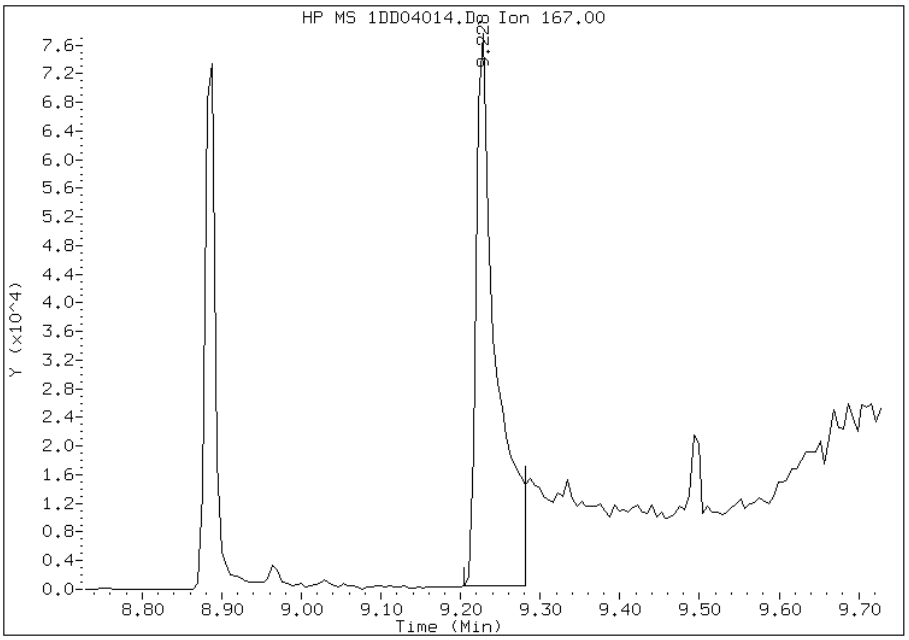
Processing Integration Results

RT: 9.23

Response: 136620

Amount: 1

Conc: 1



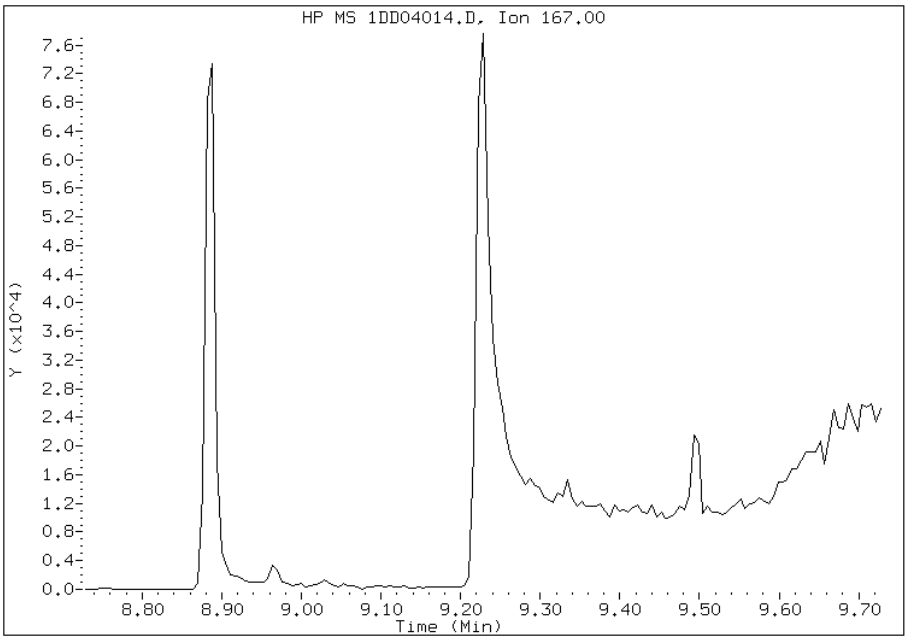
Manual Integration Results

RT: 9.23

Response: 1319041

Amount: 14

Conc: 14



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:08
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DD04014.D
Inj. Date and Time: 04-APR-2013 16:27
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

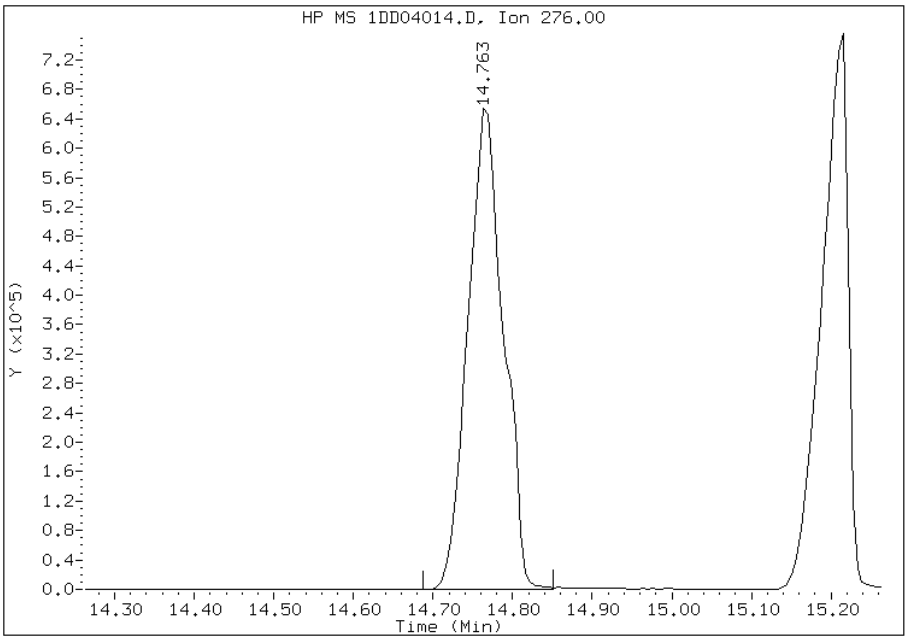
Processing Integration Results

RT: 14.76

Response: 2024721

Amount: 19

Conc: 19



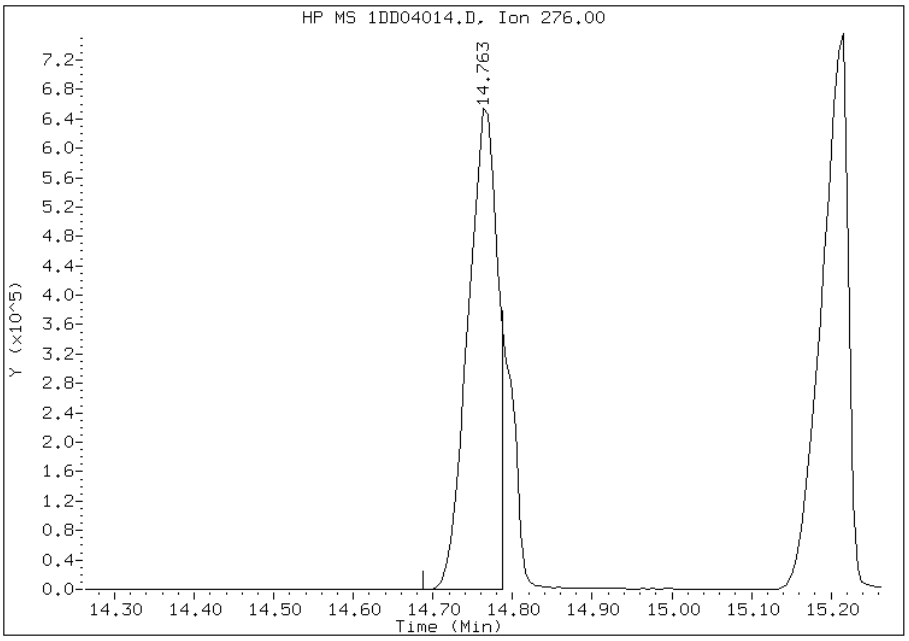
Manual Integration Results

RT: 14.76

Response: 1694283

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:09
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\1CD02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-APR-2013 11:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

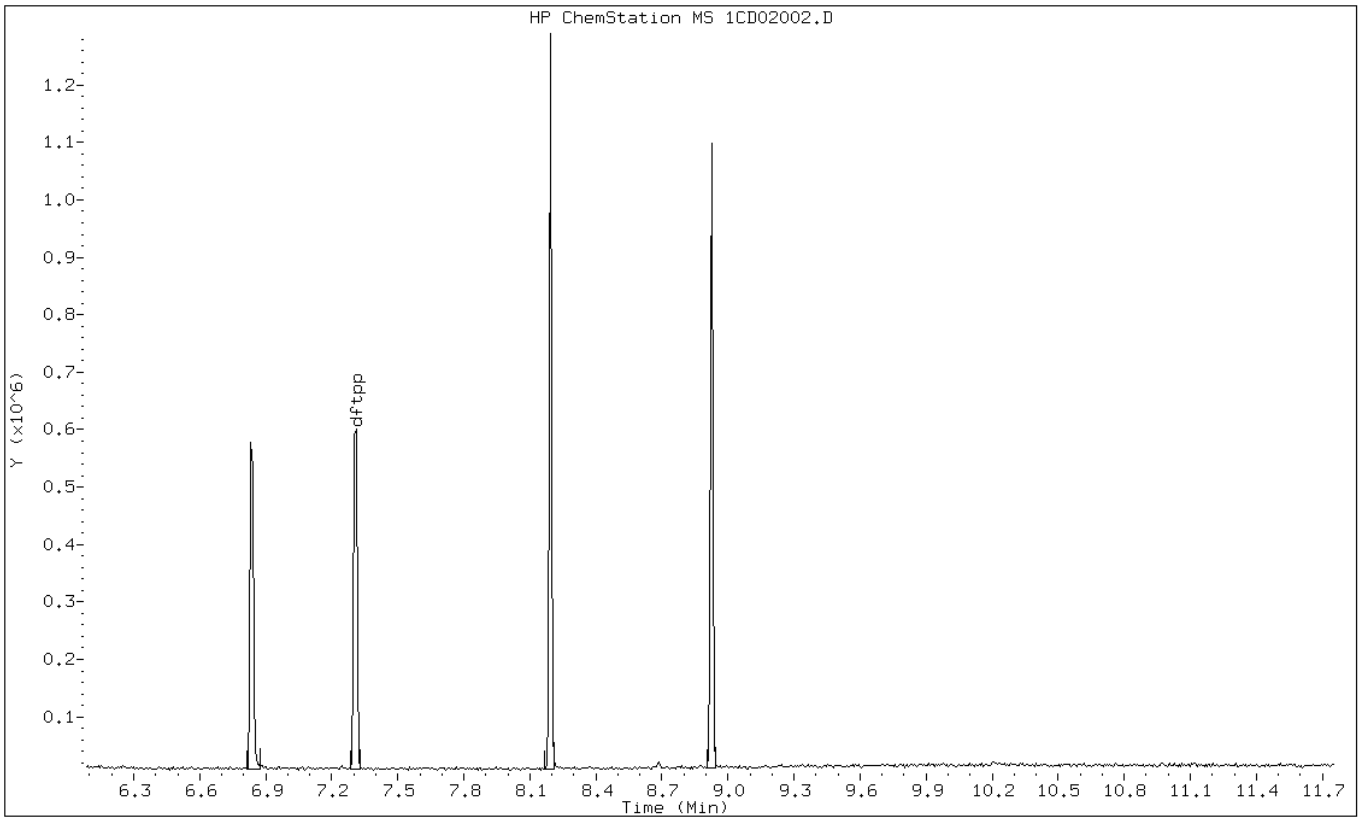
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.310	7.469	-0.159	198	70432			50.00- 0.00	100.00
7.310	7.469	-0.159	51	24576			10.00- 80.00	34.89
7.310	7.469	-0.159	68	571			0.00- 2.00	1.62
7.310	7.469	-0.159	69	35176			0.00- 0.00	49.94
7.310	7.469	-0.159	70	308			0.00- 2.00	0.88
7.310	7.469	-0.159	127	29688			10.00- 80.00	42.15
7.310	7.469	-0.159	197	310			0.00- 2.00	0.44
7.310	7.469	-0.159	442	39944			50.00- 0.00	56.71
7.310	7.469	-0.159	199	5383			5.00- 9.00	7.64
7.310	7.469	-0.159	275	15117			10.00- 60.00	21.46
7.310	7.469	-0.159	365	2390			1.00- 0.00	3.39
7.310	7.469	-0.159	441	7169			0.01- 99.99	92.67
7.310	7.469	-0.159	443	7736			15.00- 24.00	19.37

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



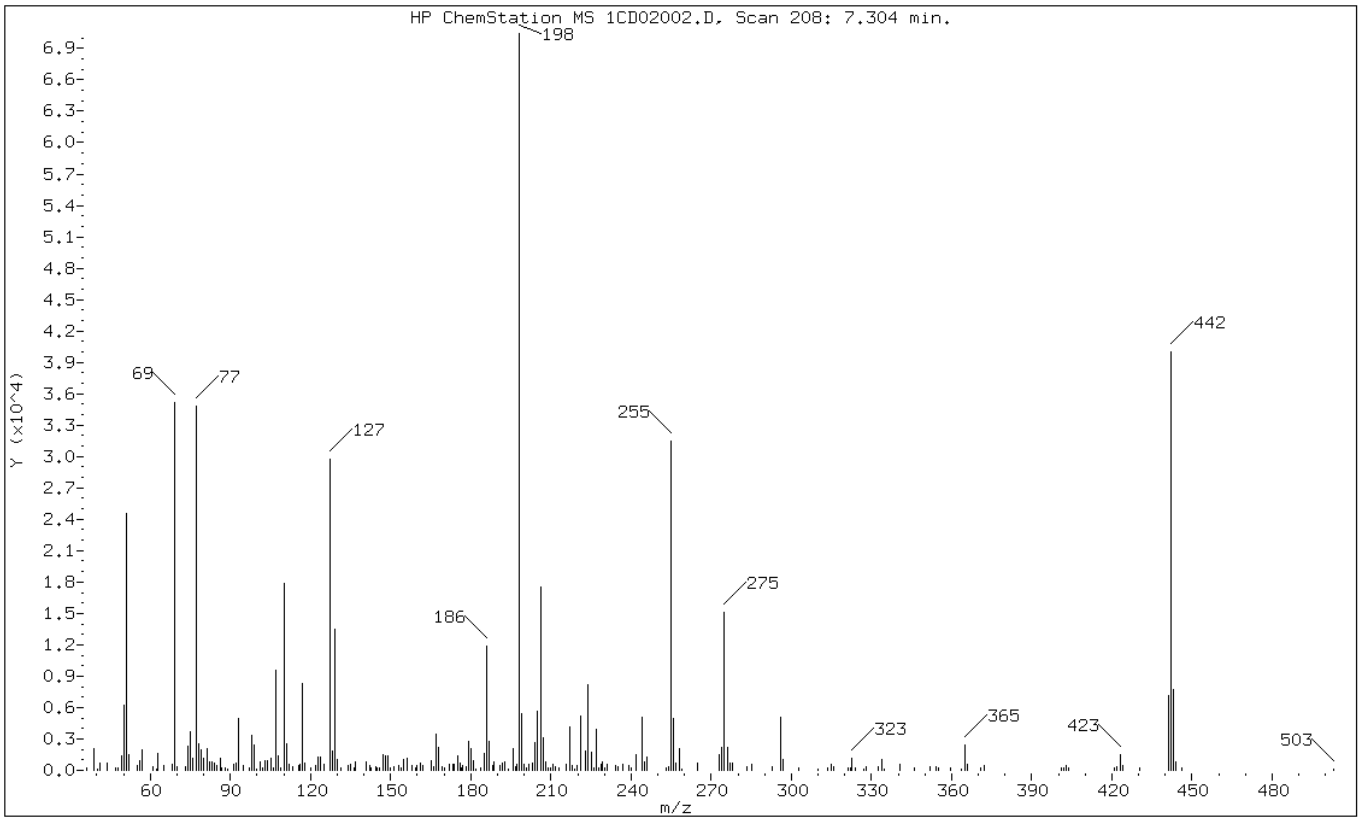
Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.89
68	Less than 2.00% of mass 69	0.81 (1.62)
69	Mass 69 relative abundance	49.94
70	Less than 2.00% of mass 69	0.44 (0.88)
127	10.00 - 80.00% of mass 198	42.15
197	Less than 2.00% of mass 198	0.44
442	Greater than 50.00% of mass 198	56.71
199	5.00 - 9.00% of mass 198	7.64
275	10.00 - 60.00% of mass 198	21.46
365	Greater than 1.00% of mass 198	3.39
441	Present, but less than mass 443	10.18
443	15.00 - 24.00% of mass 442	10.98 (19.37)

Data File: 1CD02002.D

Date: 02-APR-2013 11:31

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040213_PAHIC.b\1CD02002.D
Spectrum: HP ChemStation MS 1CD02002.D, Scan 208: 7.304 min.
Location of Maximum: 198.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	191	113.10	351	185.10	1649	258.00	2060
39.00	2089	115.80	410	186.00	11880	259.00	166
40.10	156	116.20	563	187.00	2755	265.00	700
41.20	672	117.00	8338	188.30	505	273.00	1556
44.00	691	118.00	714	188.80	850	274.00	2191
46.90	264	120.20	251	190.90	451	275.00	15117
48.00	207	122.00	433	192.00	717	276.10	2178
49.10	1329	122.90	1302	192.90	774	276.90	747
50.10	6281	123.80	1270	193.90	161	278.10	714
51.10	24576	125.10	560	195.90	2063	283.20	367
52.10	1487	127.10	29688	196.70	310	285.10	604
55.00	486	128.00	1837	197.10	545	293.00	386
56.10	964	129.10	13517	198.00	70432	296.00	5053
57.00	1965	130.00	1041	199.00	5383	297.00	1014
60.80	304	131.20	273	200.10	567	302.80	285
62.30	156	134.00	480	200.60	270	310.10	151
63.00	1637	134.90	620	201.50	554	313.70	217
65.00	481	136.20	200	203.00	654	315.00	561
68.10	571	137.00	811	204.10	2706	316.00	397
69.00	35176	140.90	765	205.10	5687	321.20	252
69.90	308	142.10	410	206.10	17552	322.00	188
73.00	304	142.70	282	207.10	3108	322.80	1174
74.10	2331	144.30	362	208.00	798	324.00	267
75.00	3676	145.00	189	208.90	282	327.10	153
76.00	1155	145.90	247	210.00	219	328.20	395
77.10	34856	147.10	1448	210.90	584	332.70	292
78.10	2489	148.00	1427	211.50	320	333.90	1034
79.10	1952	149.00	1344	213.00	214	334.60	151
80.10	1105	150.00	235	215.70	551	340.80	534
81.10	2019	151.00	357	217.00	4128	346.10	272
82.00	853	153.00	443	217.90	509	352.10	376
83.00	779	153.90	266	218.80	152	354.20	383
83.80	657	155.00	984	219.60	431	354.90	200
84.90	486	156.00	1110	221.00	5183	359.50	267
86.10	1181	157.80	502	223.10	1793	363.80	168
86.90	260	159.30	205	224.00	8192	365.00	2390
88.00	245	159.90	477	225.20	1759	365.90	597
89.10	155	161.10	679	226.10	240	370.80	193
91.10	583	162.00	441	227.00	3893	372.00	411
92.10	667	165.10	934	227.90	218	401.00	218

93.00	5005	166.00	385	228.70	623	402.10	194
95.00	495	167.00	3405	229.10	783	402.90	407
96.90	195	168.00	2215	230.00	287	403.80	197
98.00	3343	169.20	374	231.10	622	420.70	267
99.00	2408	170.30	186	234.00	423	421.10	211
100.00	162	172.10	634	234.90	390	422.00	318
101.00	782	173.10	602	236.90	598	423.00	1535
102.10	189	173.70	532	239.10	486	424.00	439
103.10	884	175.10	1337	240.10	221	430.30	186
104.00	939	176.00	727	242.00	1442	441.00	7169
105.00	1194	176.60	217	244.10	5072	442.00	39944
106.00	180	177.10	501	245.20	829	443.00	7736
107.00	9612	178.10	387	246.00	1322	444.00	786
108.00	1350	179.00	2811	253.10	269	446.00	182
109.00	183	180.10	2065	254.10	289	503.00	171
110.00	17856	181.00	967	255.00	31424		
111.00	2511	181.80	164	256.00	4972		
112.10	622	183.90	209	256.90	650		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-APR-2013 11:28
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

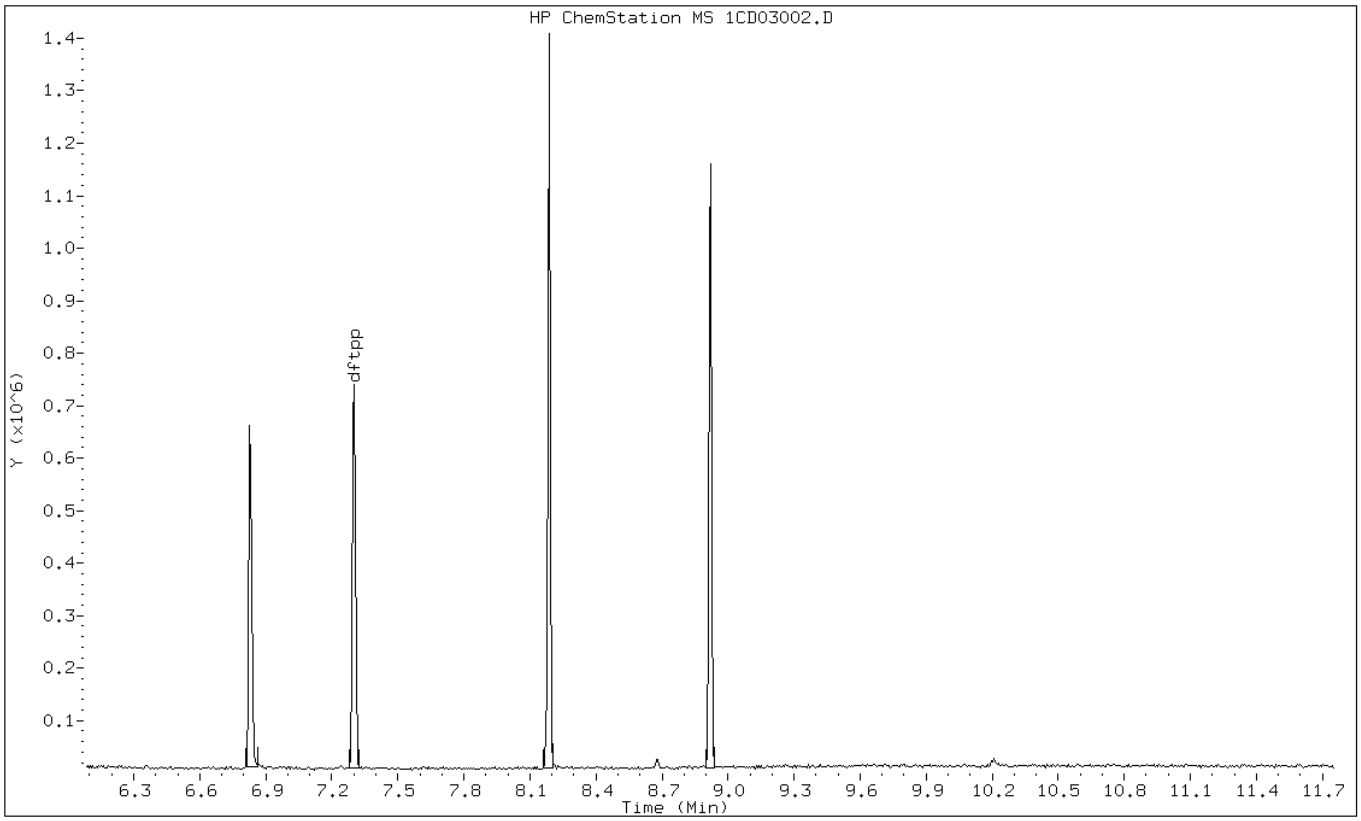
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.304	7.469	-0.165	198	75560			50.00- 0.00	100.00
7.304	7.469	-0.165	51	32256			10.00- 80.00	42.69
7.304	7.469	-0.165	68	431			0.00- 2.00	1.15
7.304	7.469	-0.165	69	37536			0.00- 0.00	49.68
7.304	7.469	-0.165	70	0	0.0	0.0	0.00- 2.00	0.00
7.304	7.469	-0.165	127	36336			10.00- 80.00	48.09
7.304	7.469	-0.165	197	0	0.0	0.0	0.00- 2.00	0.00
7.304	7.469	-0.165	442	46072			50.00- 0.00	60.97
7.304	7.469	-0.165	199	4654			5.00- 9.00	6.16
7.304	7.469	-0.165	275	14882			10.00- 60.00	19.70
7.304	7.469	-0.165	365	1786			1.00- 0.00	2.36
7.304	7.469	-0.165	441	5248			0.01- 99.99	68.32
7.304	7.469	-0.165	443	7681			15.00- 24.00	16.67

Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



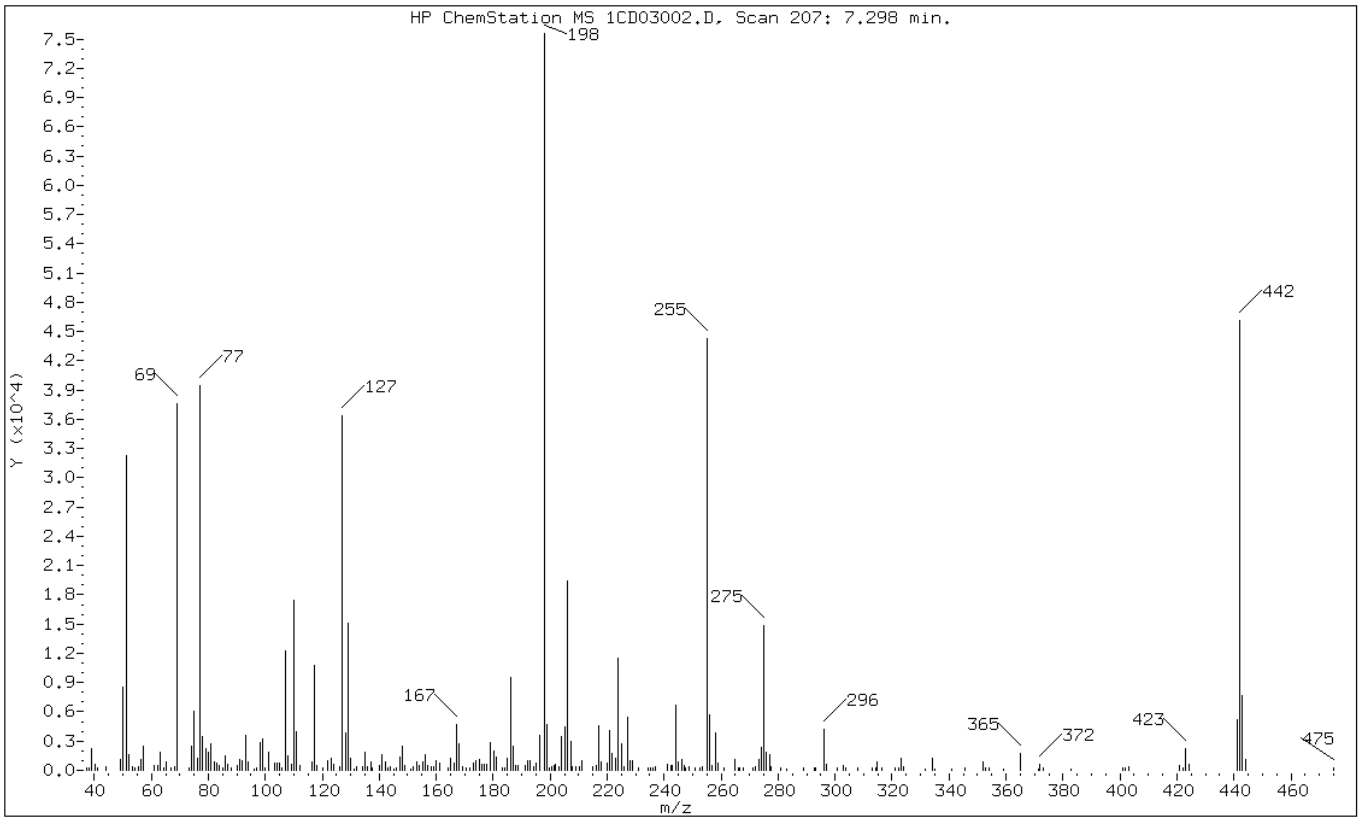
Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	42.69
68	Less than 2.00% of mass 69	0.57 (1.15)
69	Mass 69 relative abundance	49.68
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	48.09
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	60.97
199	5.00 - 9.00% of mass 198	6.16
275	10.00 - 60.00% of mass 198	19.70
365	Greater than 1.00% of mass 198	2.36
441	Present, but less than mass 443	6.95
443	15.00 - 24.00% of mass 442	10.17 (16.67)

Data File: 1CD03002.D

Date: 03-APR-2013 11:28

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03002.D
Spectrum: HP ChemStation MS 1CD03002.D, Scan 207: 7.298 min.
Location of Maximum: 198.00
Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.30	192	117.10	10764	188.00	493	266.00	218
38.00	283	118.00	527	188.90	513	266.70	201
39.10	2239	120.10	245	191.10	499	267.90	235
40.10	585	122.00	935	192.00	1043	271.10	199
40.90	297	123.10	1247	192.90	1024	272.10	327
44.10	330	123.90	604	194.10	332	273.10	1066
49.00	1129	126.00	335	195.20	727	274.00	2324
50.10	8491	127.10	36336	196.10	3641	275.00	14882
51.10	32256	128.10	3781	198.00	75560	276.00	1830
52.10	1581	129.00	15116	199.00	4654	277.00	1659
53.20	336	130.00	1263	199.90	276	277.70	402
54.10	256	131.20	159	200.60	335	281.00	220
55.30	348	132.00	334	201.20	451	282.80	180
56.20	1156	134.10	331	202.00	580	289.00	293
57.10	2512	135.10	1813	203.20	332	292.70	189
60.90	464	135.90	409	204.10	3436	293.20	284
62.10	453	137.00	852	205.00	4509	296.00	4228
63.00	1830	137.70	212	206.10	19472	297.00	626
64.20	214	140.10	437	207.10	2922	300.80	203
65.00	826	141.00	1569	207.90	382	303.00	545
66.80	196	142.10	863	209.10	415	303.80	201
68.00	431	143.00	262	210.20	312	308.00	262
69.10	37536	144.00	331	211.00	973	313.00	225
73.10	264	145.00	171	214.90	410	314.10	209
74.10	2431	146.00	305	216.00	506	314.90	815
75.10	6014	147.10	1301	217.00	4568	316.30	293
76.10	1227	148.10	2447	218.00	865	321.00	250
77.10	39480	149.00	456	220.20	718	322.20	285
78.00	3407	151.10	166	221.00	4124	323.00	1264
79.10	2246	152.10	368	221.70	1716	324.00	356
80.00	1895	153.00	900	223.10	1261	331.80	174
81.00	2668	154.10	515	224.00	11463	334.00	1232
82.10	879	155.10	863	225.10	2700	334.90	167
83.10	764	156.10	1663	226.00	418	340.90	178
84.00	475	157.00	538	227.00	5402	345.50	200
85.00	238	158.10	315	227.90	949	345.70	201
86.00	1545	159.10	361	229.00	1026	352.00	846
86.80	591	160.10	1033	231.00	287	352.90	228
88.00	244	161.10	710	234.20	305	354.00	283
90.00	555	164.00	222	235.10	301	359.10	153

90.90	1058	165.10	1243	236.10	289	364.90	1786
92.00	991	166.10	702	237.00	410	371.30	185
93.00	3605	167.00	4706	241.10	620	371.90	659
94.10	821	168.10	2729	242.20	454	373.00	302
96.10	182	169.20	408	242.90	481	382.70	163
97.10	261	170.70	259	244.00	6719	400.90	212
98.00	2850	171.80	303	245.00	898	402.00	306
99.10	3237	173.10	799	246.10	1119	403.00	361
100.10	191	174.10	994	247.10	479	420.80	515
101.10	1802	175.10	1080	247.60	278	422.10	230
103.10	791	176.10	603	248.80	422	422.90	2199
104.10	795	177.00	595	250.70	208	424.10	620
105.10	697	177.60	617	252.60	245	441.00	5248
105.70	251	179.10	2842	253.60	315	442.00	46072
107.00	12235	180.10	1998	255.00	44296	443.00	7681
108.10	1536	180.90	1327	256.10	5661	444.00	1055
109.10	670	183.40	224	256.80	459	475.00	248
110.10	17424	184.10	220	258.00	3829		
111.00	3940	185.00	1287	259.10	709		
112.20	440	186.10	9570	260.90	205		
116.20	866	187.10	2436	265.00	1167		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 05-APR-2013 11:57
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

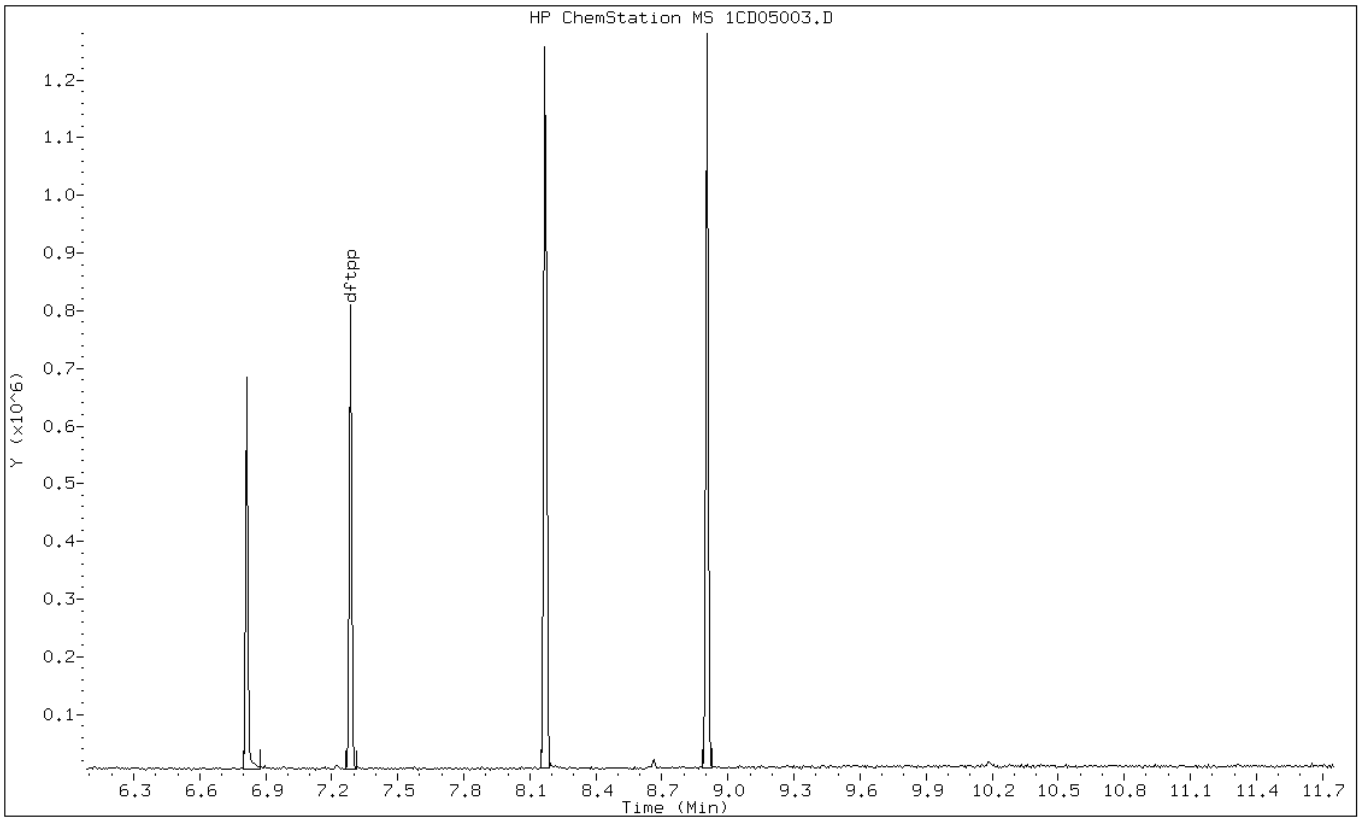
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.286	7.469	-0.183	198	70588			50.00- 0.00	100.00
7.286	7.469	-0.183	51	29336			10.00- 80.00	41.56
7.286	7.469	-0.183	68	565			0.00- 2.00	1.45
7.286	7.469	-0.183	69	39020			0.00- 0.00	55.28
7.286	7.469	-0.183	70	218			0.00- 2.00	0.56
7.286	7.469	-0.183	127	34576			10.00- 80.00	48.98
7.286	7.469	-0.183	197	438			0.00- 2.00	0.62
7.286	7.469	-0.183	442	39248			50.00- 0.00	55.60
7.286	7.469	-0.183	199	4704			5.00- 9.00	6.66
7.286	7.469	-0.183	275	13612			10.00- 60.00	19.28
7.286	7.469	-0.183	365	2087			1.00- 0.00	2.96
7.286	7.469	-0.183	441	5332			0.01- 99.99	64.58
7.286	7.469	-0.183	443	8257			15.00- 24.00	21.04

Data File: 1CD05003.D

Date: 05-APR-2013 11:57

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 | Operator: SCC



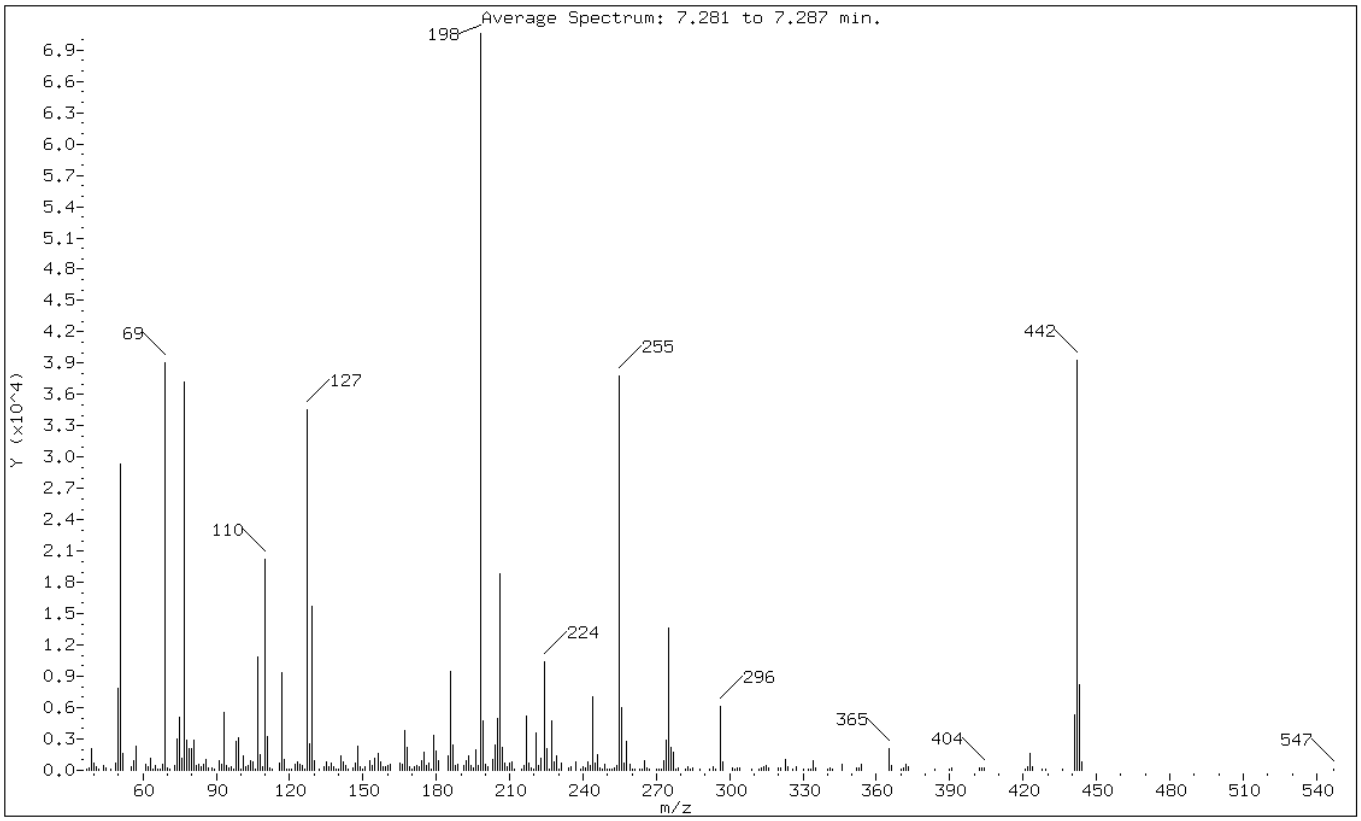
Data File: 1CD05003.D

Date: 05-APR-2013 11:57

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.56
68	Less than 2.00% of mass 69	0.80 (1.45)
69	Mass 69 relative abundance	55.28
70	Less than 2.00% of mass 69	0.31 (0.56)
127	10.00 - 80.00% of mass 198	48.98
197	Less than 2.00% of mass 198	0.62
442	Greater than 50.00% of mass 198	55.60
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 60.00% of mass 198	19.28
365	Greater than 1.00% of mass 198	2.96
441	Present, but less than mass 443	7.55
443	15.00 - 24.00% of mass 442	11.70 (21.04)

Data File: 1CD05003.D

Date: 05-APR-2013 11:57

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05003.D
Spectrum: Average Spectrum: 7.281 to 7.287 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	87	118.00	1005	198.00	70584	277.00	1778
38.00	215	119.00	77	199.00	4704	278.00	123
39.00	2084	120.00	109	200.00	535	279.00	249
40.00	685	121.00	95	201.00	377	282.00	110
41.00	373	122.00	557	203.00	1061	283.00	366
42.00	99	123.00	824	204.00	2377	284.00	78
44.00	466	124.00	525	205.00	4989	285.00	223
45.00	227	125.00	459	206.00	18816	288.00	110
47.00	162	126.00	156	207.00	2185	292.00	134
49.00	724	127.00	34576	208.00	693	293.00	289
50.00	7845	128.00	2580	209.00	314	294.00	163
51.00	29336	129.00	15715	210.00	666	296.00	6099
52.00	1655	130.00	920	211.00	776	297.00	790
55.00	364	132.00	129	212.00	124	301.00	224
56.00	896	134.00	387	215.00	121	302.00	162
57.00	2300	135.00	780	216.00	407	303.00	275
61.00	566	136.00	313	217.00	5252	304.00	252
62.00	316	137.00	703	218.00	694	309.00	166
63.00	1159	138.00	398	219.00	258	312.00	119
64.00	78	139.00	81	220.00	136	313.00	204
65.00	468	140.00	81	221.00	3530	314.00	309
66.00	82	141.00	1344	222.00	504	315.00	458
67.00	138	142.00	755	223.00	1120	316.00	213
68.00	565	143.00	438	224.00	10390	320.00	205
69.00	39016	144.00	75	225.00	2068	321.00	246
70.00	218	146.00	214	226.00	144	323.00	1081
71.00	79	147.00	650	227.00	4743	324.00	400
73.00	429	148.00	2309	228.00	766	326.00	99
74.00	3044	149.00	380	229.00	1355	327.00	399
75.00	5071	150.00	82	230.00	78	330.00	118
76.00	1173	151.00	300	231.00	697	332.00	99
77.00	37208	153.00	927	234.00	233	333.00	94
78.00	2848	154.00	467	235.00	309	334.00	919
79.00	2133	155.00	1200	237.00	759	335.00	218
80.00	2030	156.00	1561	239.00	78	340.00	87
81.00	2919	157.00	859	240.00	290	341.00	188
82.00	460	158.00	326	241.00	276	342.00	147
83.00	534	159.00	358	242.00	757	346.00	613
84.00	344	160.00	508	243.00	471	352.00	275
85.00	549	161.00	601	244.00	7050	353.00	186

86.00	1030	165.00	731	245.00	670	354.00	548
87.00	176	166.00	623	246.00	1507	365.00	2087
88.00	257	167.00	3864	247.00	284	366.00	490
89.00	87	168.00	2200	248.00	109	370.00	147
91.00	945	169.00	331	249.00	616	371.00	183
92.00	633	170.00	165	250.00	141	372.00	601
93.00	5573	171.00	295	251.00	99	373.00	335
94.00	433	172.00	412	252.00	82	384.00	140
95.00	219	173.00	329	253.00	183	390.00	75
96.00	357	174.00	969	254.00	496	391.00	206
97.00	94	175.00	1726	255.00	37768	402.00	252
98.00	2760	176.00	453	256.00	6014	403.00	188
99.00	3086	177.00	636	257.00	656	404.00	274
100.00	108	178.00	167	258.00	2749	421.00	79
101.00	1360	179.00	3315	259.00	560	422.00	289
102.00	383	180.00	1844	260.00	94	423.00	1582
103.00	417	181.00	957	261.00	110	424.00	356
104.00	900	185.00	1392	263.00	75	428.00	103
105.00	865	186.00	9523	264.00	82	429.00	102
106.00	162	187.00	2465	265.00	976	436.00	121
107.00	10874	188.00	440	266.00	191	441.00	5332
108.00	1494	189.00	611	267.00	142	442.00	39248
109.00	397	191.00	453	270.00	87	443.00	8257
110.00	20224	192.00	872	271.00	101	444.00	752
111.00	3238	193.00	1334	272.00	155	547.00	127
112.00	219	194.00	408	273.00	972		
113.00	166	195.00	217	274.00	2900		
116.00	660	196.00	1965	275.00	13612		
117.00	9344	197.00	438	276.00	2248		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 04-APR-2013 12:15
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1525850
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\d-dftpp198.m
Meth Date : 08-Jan-2013 12:23 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

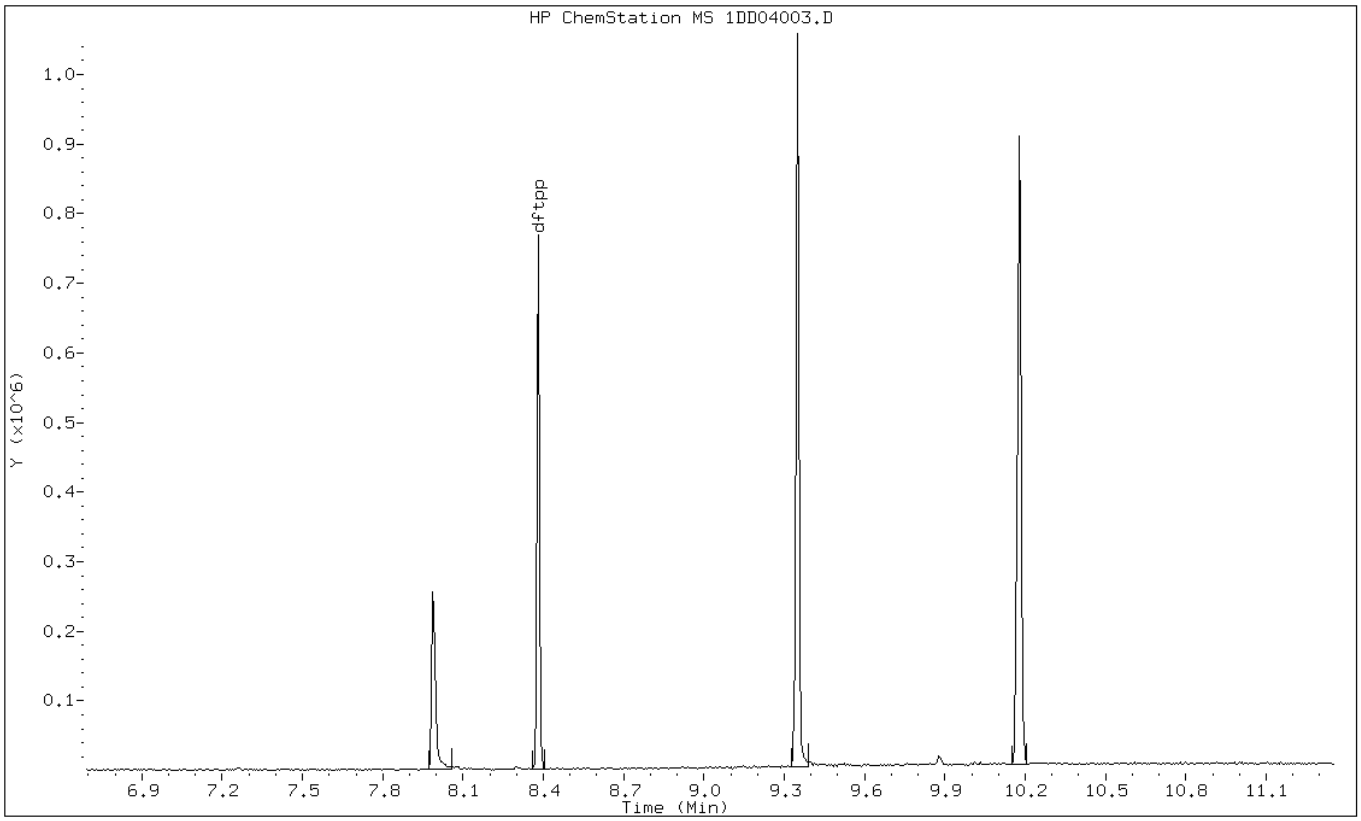
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.382	8.532	-0.150	198	72572			50.00- 0.00	100.00
8.382	8.532	-0.150	51	32556			10.00- 80.00	44.86
8.382	8.532	-0.150	68	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	69	32936			0.00- 0.00	45.38
8.382	8.532	-0.150	70	114			0.00- 2.00	0.35
8.382	8.532	-0.150	127	36680			10.00- 80.00	50.54
8.382	8.532	-0.150	197	0	0.0	0.0	0.00- 2.00	0.00
8.382	8.532	-0.150	442	48716			50.00- 0.00	67.13
8.382	8.532	-0.150	199	4977			5.00- 9.00	6.86
8.382	8.532	-0.150	275	19350			10.00- 60.00	26.66
8.382	8.532	-0.150	365	2279			1.00- 0.00	3.14
8.382	8.532	-0.150	441	2370			0.01- 99.99	23.58
8.382	8.532	-0.150	443	10052			15.00- 24.00	20.63

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC



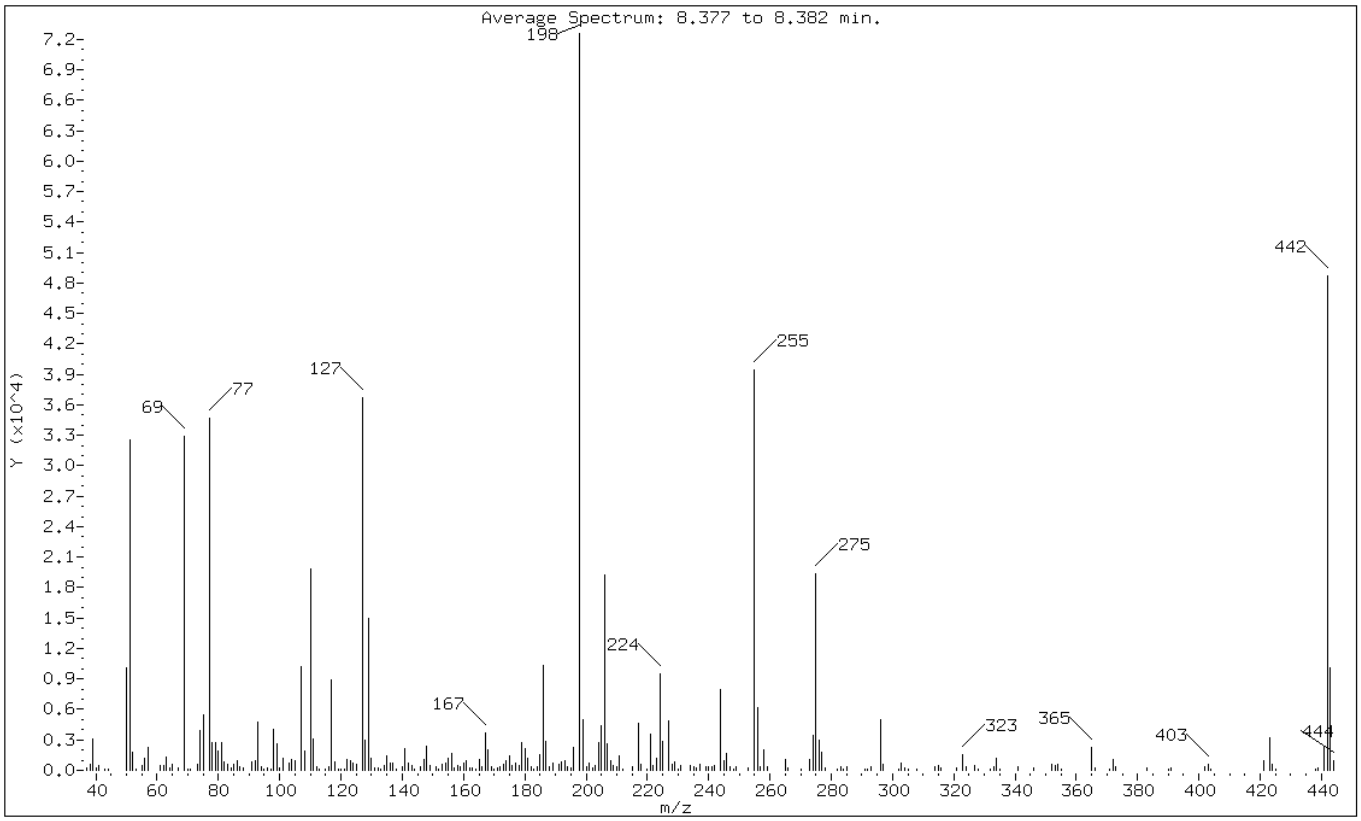
Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1525850 | Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.38
70	Less than 2.00% of mass 69	0.16 (0.35)
127	10.00 - 80.00% of mass 198	50.54
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.13
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.14
441	Present, but less than mass 443	3.27
443	15.00 - 24.00% of mass 442	13.85 (20.63)

Data File: 1DD04003.D

Date: 04-APR-2013 12:15

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1525850 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04003.D
Spectrum: Average Spectrum: 8.377 to 8.382 min.
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	274	119.00	120	185.00	1517	270.00	78
38.00	589	120.00	118	186.00	10284	273.00	1081
39.00	3038	121.00	77	187.00	2888	274.00	3485
40.00	277	122.00	1015	188.00	332	275.00	19344
41.00	463	123.00	946	189.00	735	276.00	2999
43.00	124	124.00	666	191.00	579	277.00	1839
44.00	117	125.00	567	192.00	873	278.00	226
50.00	10128	127.00	36680	193.00	975	282.00	81
51.00	32552	128.00	2957	194.00	335	283.00	314
52.00	1767	129.00	14951	195.00	275	284.00	90
53.00	85	130.00	1205	196.00	2233	285.00	356
55.00	420	131.00	194	198.00	72568	291.00	83
56.00	1176	132.00	206	199.00	4977	292.00	80
57.00	2213	133.00	92	200.00	323	293.00	412
61.00	490	134.00	523	201.00	663	296.00	5046
62.00	459	135.00	1404	202.00	210	297.00	576
63.00	1290	136.00	674	203.00	519	302.00	157
64.00	230	137.00	709	204.00	2685	303.00	675
65.00	539	138.00	79	205.00	4398	304.00	185
67.00	251	140.00	333	206.00	19200	305.00	82
69.00	32936	141.00	2082	207.00	2631	308.00	174
70.00	114	142.00	713	208.00	974	314.00	314
71.00	81	143.00	523	209.00	499	315.00	487
73.00	647	144.00	93	210.00	329	316.00	223
74.00	3962	146.00	312	211.00	1393	321.00	206
75.00	5478	147.00	1032	212.00	165	323.00	1494
77.00	34688	148.00	2326	215.00	308	324.00	410
78.00	2711	149.00	488	217.00	4596	327.00	476
79.00	2695	151.00	320	218.00	606	328.00	99
80.00	1923	152.00	103	220.00	76	332.00	111
81.00	2677	153.00	558	221.00	3596	333.00	396
82.00	777	154.00	665	222.00	431	334.00	1163
83.00	630	155.00	1227	223.00	1208	335.00	119
84.00	185	156.00	1628	224.00	9447	341.00	297
85.00	566	157.00	240	225.00	2804	346.00	197
86.00	895	158.00	430	227.00	4861	352.00	557
87.00	384	159.00	320	228.00	637	353.00	477
88.00	184	160.00	765	229.00	843	354.00	558
91.00	856	161.00	1005	230.00	115	355.00	81
92.00	893	162.00	279	231.00	446	365.00	2279

93.00	4736	163.00	190	234.00	485	366.00	181
94.00	298	164.00	105	235.00	402	371.00	117
95.00	167	165.00	1019	236.00	243	372.00	1076
96.00	240	166.00	344	237.00	537	373.00	335
97.00	178	167.00	3671	239.00	320	383.00	219
98.00	4066	168.00	1997	240.00	333	390.00	136
99.00	2655	169.00	349	241.00	361	391.00	180
100.00	295	170.00	112	242.00	472	402.00	362
101.00	1142	171.00	208	244.00	7939	403.00	564
103.00	719	172.00	342	245.00	988	404.00	144
104.00	1122	173.00	643	246.00	1619	421.00	961
105.00	909	174.00	893	247.00	381	423.00	3222
107.00	10195	175.00	1368	248.00	80	424.00	628
108.00	1940	176.00	519	249.00	382	425.00	87
110.00	19784	177.00	713	253.00	265	438.00	129
111.00	3136	178.00	422	255.00	39432	439.00	214
112.00	374	179.00	2728	256.00	6151	441.00	2370
113.00	128	180.00	2151	257.00	340	442.00	48712
115.00	153	181.00	1200	258.00	2068	443.00	10052
116.00	393	182.00	314	259.00	399	444.00	994
117.00	8897	183.00	98	265.00	1086		
118.00	800	184.00	382	266.00	282		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: | Lab Sample ID: MB 660-136013/1-A

Matrix: Water | Lab File ID: 1DD04022.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/02/2013 08:08

Sample wt/vol: 1000(mL) | Date Analyzed: 04/04/2013 19:51

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.: 136164 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04022.D
Lab Smp Id: MB 660-136013/1-A
Inj Date : 04-APR-2013 19:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-136013/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 20 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/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

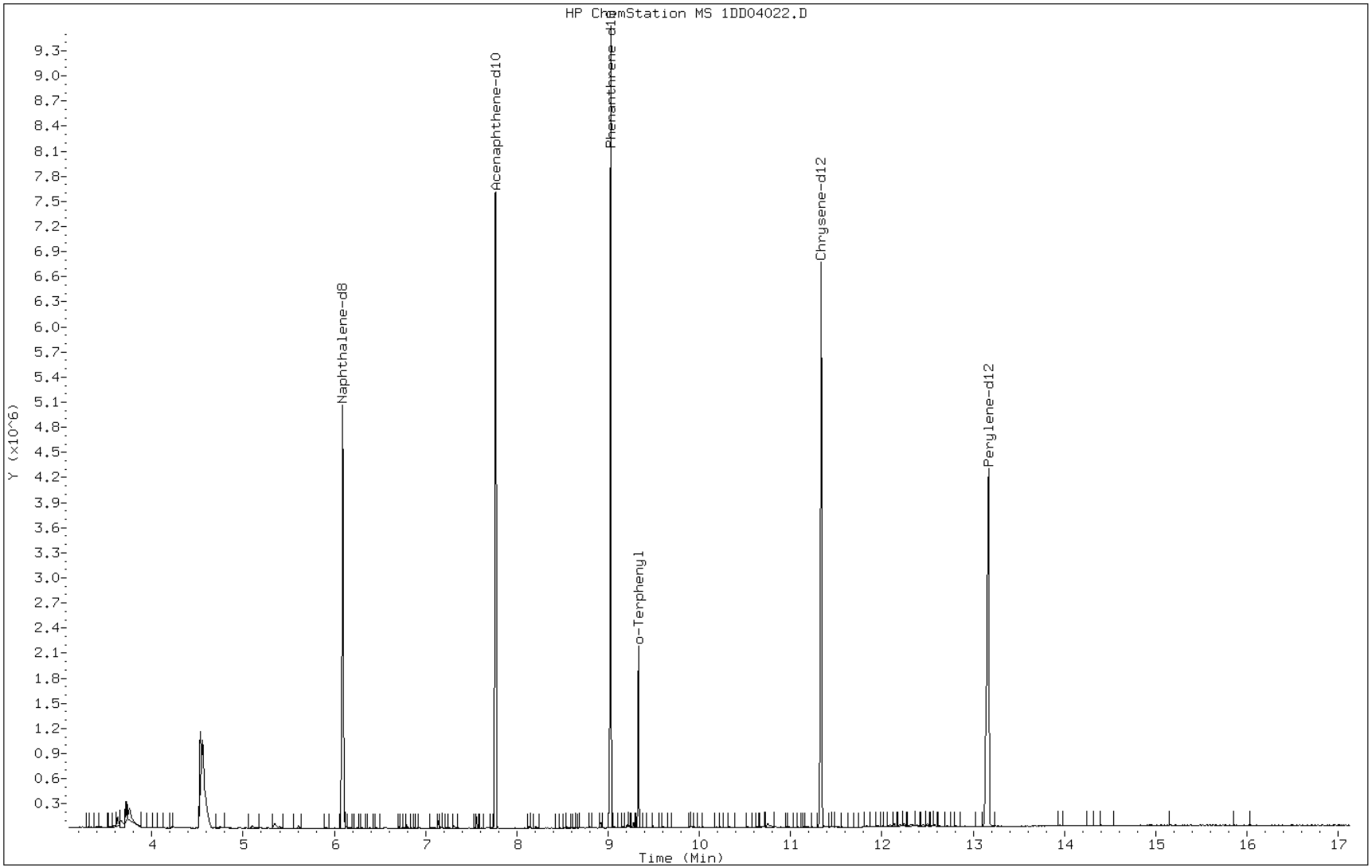
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.089	6.090	(1.000)	2711590	40.0000	
* 6 Acenaphthene-d10	164	7.769	7.770	(1.000)	1656380	40.0000	
* 9 Phenanthrene-d10	188	9.027	9.028	(1.000)	2762536	40.0000	
$ 13 o-Terphenyl	230	9.332	9.339	(1.034)	325411	7.81784	7.8
* 17 Chrysene-d12	240	11.336	11.349	(1.000)	2767376	40.0000	
* 22 Perylene-d12	264	13.169	13.176	(1.000)	2802105	40.0000	

Data File: 1DD04022.D

Date: 04-APR-2013 19:51

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-136013/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: | Lab Sample ID: MB 660-136063/1-A

Matrix: Solid | Lab File ID: 1CD03015.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.99(g) | Date Analyzed: 04/03/2013 15:34

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.: 136081 | 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	80		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03015.D
Lab Smp Id: mb 660-136063/1-a
Inj Date : 03-APR-2013 15:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-136063/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

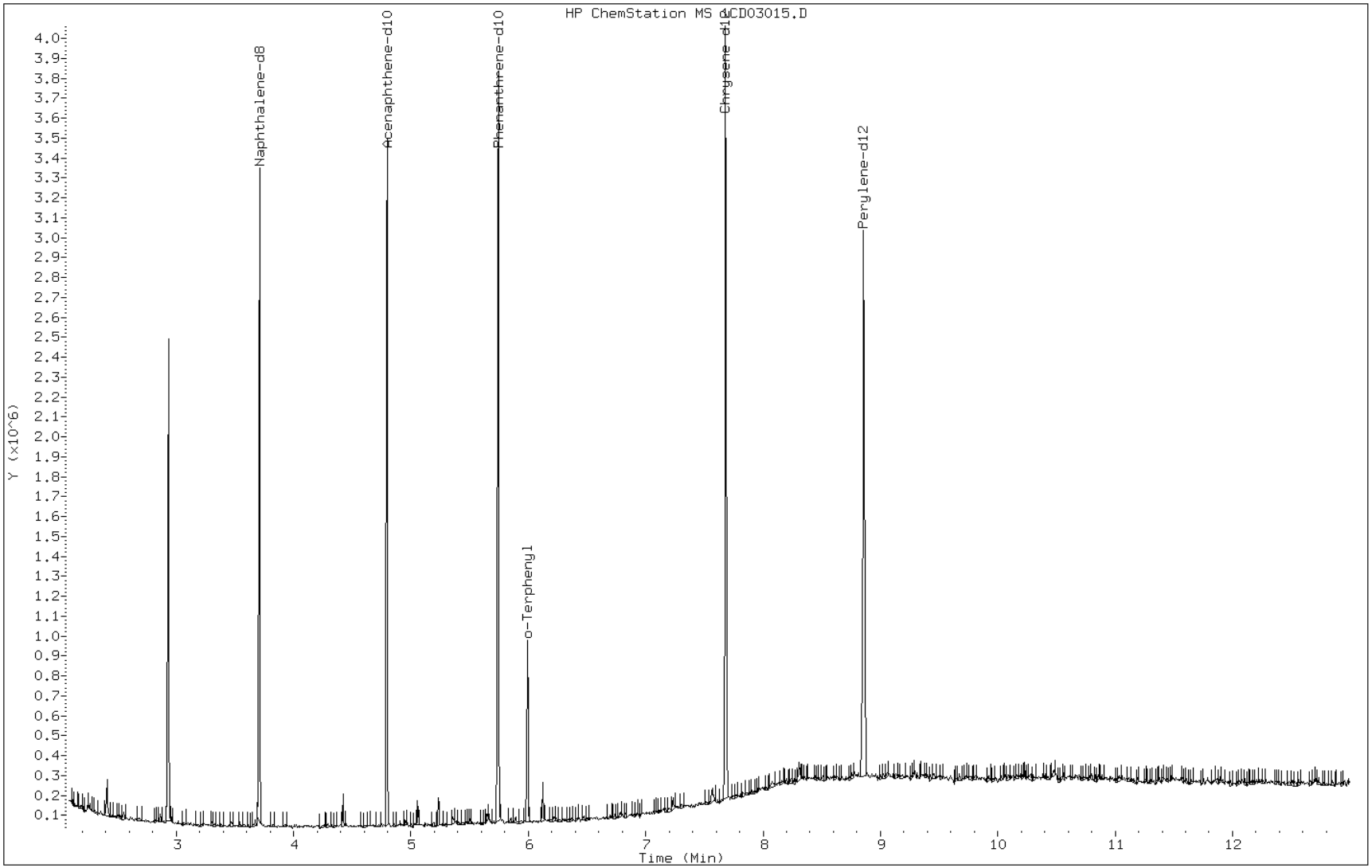
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	646271	40.0000	
* 6 Acenaphthene-d10	164	4.798	4.792	(1.000)	483289	40.0000	
* 10 Phenanthrene-d10	188	5.745	5.739	(1.000)	879169	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.043)	104839	8.03116	535.7676
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	990236	40.0000	
* 23 Perylene-d12	264	8.856	8.851	(1.000)	958431	40.0000	

Data File: 1CD03015.D

Date: 03-APR-2013 15:34

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-136063/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: | Lab Sample ID: LCS 660-136013/2-A

Matrix: Water | Lab File ID: 1DD04023.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3520C | Date Extracted: 04/02/2013 08:08

Sample wt/vol: 1000(mL) | Date Analyzed: 04/04/2013 20:13

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.: 136164 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.38		2.0	0.50
208-96-8	Acenaphthylene	7.55		1.0	0.25
120-12-7	Anthracene	7.12		0.20	0.076
56-55-3	Benzo[a]anthracene	7.21		0.20	0.050
50-32-8	Benzo[a]pyrene	4.96		0.20	0.057
205-99-2	Benzo[b]fluoranthene	5.86		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.51		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.75		0.20	0.057
218-01-9	Chrysene	7.28		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.33		0.20	0.050
206-44-0	Fluoranthene	7.83		0.50	0.054
86-73-7	Fluorene	8.04		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.17		0.20	0.050
90-12-0	1-Methylnaphthalene	7.86		2.0	0.50
91-57-6	2-Methylnaphthalene	7.57		2.0	0.50
91-20-3	Naphthalene	7.44		2.0	0.25
85-01-8	Phenanthrene	7.52		0.50	0.20
129-00-0	Pyrene	7.50		0.50	0.089

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04023.D
Lab Smp Id: LCS 660-136013/2-A
Inj Date : 04-APR-2013 20:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-136013/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 21 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	6.091	6.090	(1.000)	2684140	40.0000	
* 6 Acenaphthene-d10	164	7.771	7.770	(1.000)	1602441	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2731968	40.0000	
$ 13 o-Terphenyl	230	9.328	9.339	(1.033)	295609	7.18133	7.2
* 17 Chrysene-d12	240	11.337	11.349	(1.000)	2730920	40.0000	
* 22 Perylene-d12	264	13.171	13.176	(1.000)	2751843	40.0000	
2 Naphthalene	128	6.114	6.114	(1.004)	496565	7.44300	7.4
3 2-Methylnaphthalene	142	6.813	6.819	(1.119)	325909	7.56748	7.6
4 1-Methylnaphthalene	142	6.907	6.913	(1.134)	319826	7.86387	7.9
5 Acenaphthylene	152	7.636	7.641	(0.983)	512152	7.55139	7.6
7 Acenaphthene	154	7.795	7.800	(1.003)	309132	7.38412	7.4
8 Fluorene	166	8.235	8.240	(1.060)	398793	8.04409	8.0
10 Phenanthrene	178	9.040	9.051	(1.001)	565842	7.51938	7.5
11 Anthracene	178	9.081	9.092	(1.006)	531932	7.12196	7.1
12 Carbazole	167	9.222	9.233	(1.021)	508129	7.71291	7.7
14 Fluoranthene	202	10.021	10.032	(1.110)	606655	7.83416	7.8
15 Pyrene	202	10.209	10.220	(0.901)	614790	7.49659	7.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.320	11.325	(0.998)	569571	7.21375	7.2
18 Chrysene	228	11.361	11.378	(1.002)	539084	7.28167	7.3
19 Benzo(b)fluoranthene	252	12.618	12.635	(0.958)	402734	5.85866	5.8
20 Benzo(k)fluoranthene	252	12.648	12.682	(0.960)	416183	5.74683	5.7(H)
21 Benzo(a)pyrene	252	13.065	13.094	(0.992)	342407	4.95744	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.739	14.786	(1.119)	233654	3.17256	3.2(MH)
24 Dibenzo(a,h)anthracene	278	14.763	14.827	(1.121)	230609	3.32512	3.3(H)
25 Benzo(g,h,i)perylene	276	15.168	15.238	(1.152)	249229	3.51456	3.5(H)

QC Flag Legend

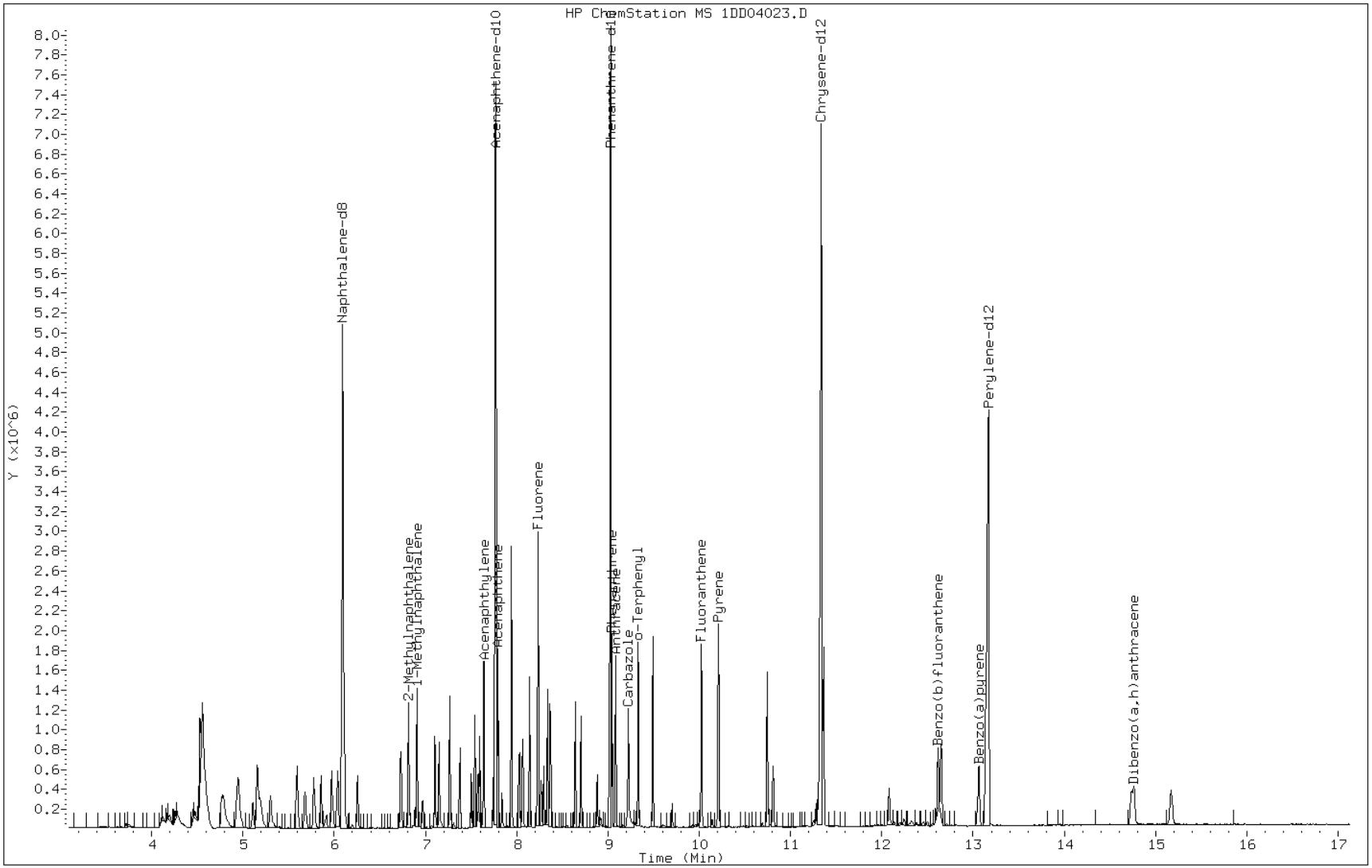
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04023.D

Date: 04-APR-2013 20:13

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-136013/2-A Operator: SCC



Manual Integration Report

Data File: 1DD04023.D
Inj. Date and Time: 04-APR-2013 20:13
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

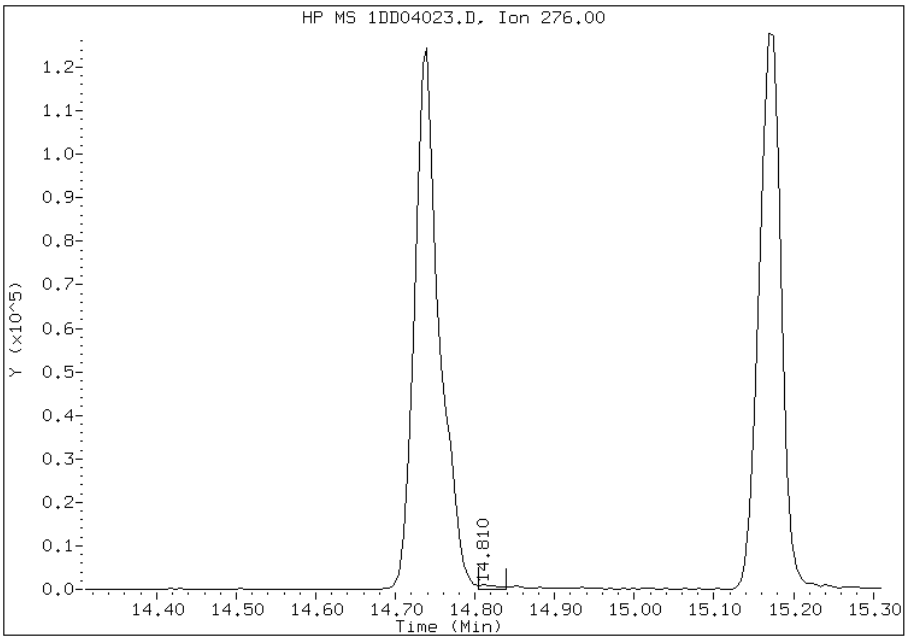
Processing Integration Results

RT: 14.81

Response: 1999

Amount: 0

Conc: 0



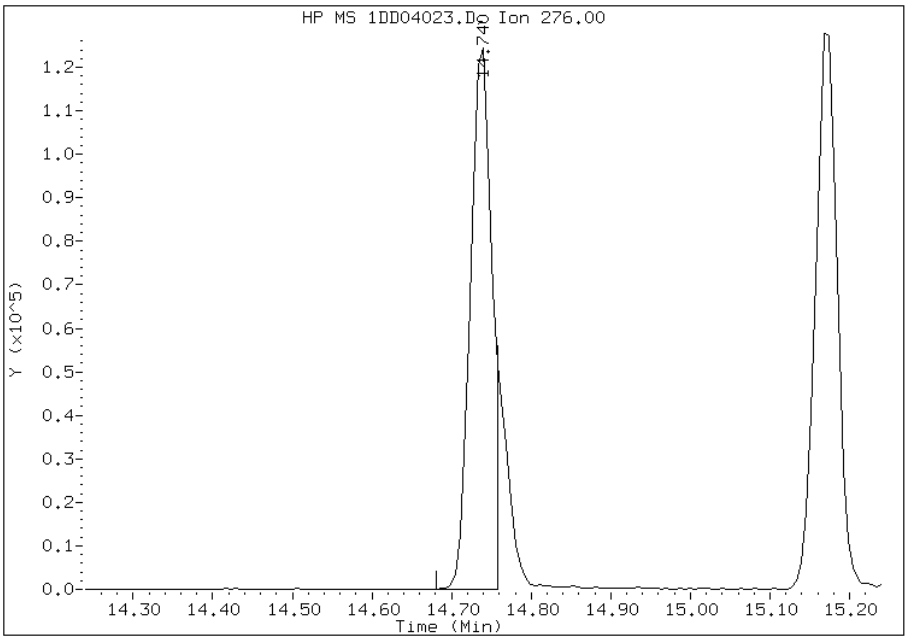
Manual Integration Results

RT: 14.74

Response: 233654

Amount: 3

Conc: 3



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-2
SDG No.: 68088766-2
Client Sample ID:
Lab Sample ID: LCS 660-136063/2-A
Matrix: Solid
Lab File ID: 1CD03016.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 04/02/2013 11:33
Sample wt/vol: 14.97(g)
Date Analyzed: 04/03/2013 15:52
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.: 136081
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	458		100	20
208-96-8	Acenaphthylene	488		40	5.0
120-12-7	Anthracene	469		8.4	4.2
56-55-3	Benzo[a]anthracene	484		8.0	3.9
50-32-8	Benzo[a]pyrene	444		10	5.2
205-99-2	Benzo[b]fluoranthene	516		12	6.1
191-24-2	Benzo[g,h,i]perylene	418		20	4.4
207-08-9	Benzo[k]fluoranthene	468		8.0	3.6
218-01-9	Chrysene	462		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	471		20	4.1
206-44-0	Fluoranthene	487		20	4.0
86-73-7	Fluorene	444		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	399		20	7.1
90-12-0	1-Methylnaphthalene	522		40	4.4
91-57-6	2-Methylnaphthalene	458		40	7.1
91-20-3	Naphthalene	484		40	4.4
85-01-8	Phenanthrene	499		8.0	3.9
129-00-0	Pyrene	516		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03016.D
Lab Smp Id: lcs 660-136063/2-a
Inj Date : 03-APR-2013 15:52
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-136063/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	631468	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	487717	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	877192	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	92529	7.18786	480.1508
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	995572	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	964341	40.0000	
2 Naphthalene	128	3.722	3.722	(1.003)	117544	7.24725	484.1181
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	75697	6.85623	457.9979
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	77643	7.81557	522.0820
5 Acenaphthylene	152	4.710	4.704	(0.983)	147518	7.30815	488.1862
7 Acenaphthene	154	4.816	4.816	(1.005)	85784	6.86151	458.3506
9 Fluorene	166	5.133	5.133	(1.071)	110785	6.64710	444.0278
11 Phenanthrene	178	5.757	5.757	(1.003)	190897	7.47212	499.1395
12 Anthracene	178	5.792	5.792	(1.009)	181998	7.02747	469.4369

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	177248	7.98844	533.6301
15 Fluoranthene	202	6.592	6.592	(1.149)	205854	7.29605	487.3779
16 Pyrene	202	6.757	6.757	(0.880)	212934	7.72112	515.7731
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	204915	7.23923	483.5827
19 Chrysene	228	7.698	7.698	(1.002)	196071	6.91134	461.6795
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	210472	7.72013	515.7070
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	184760	7.00698	468.0684
22 Benzo(a)pyrene	252	8.798	8.798	(0.994)	170578	6.64575	443.9378
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	145625	5.97338	399.0232(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	158866	7.05430	471.2290
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	155744	6.25938	418.1284

QC Flag Legend

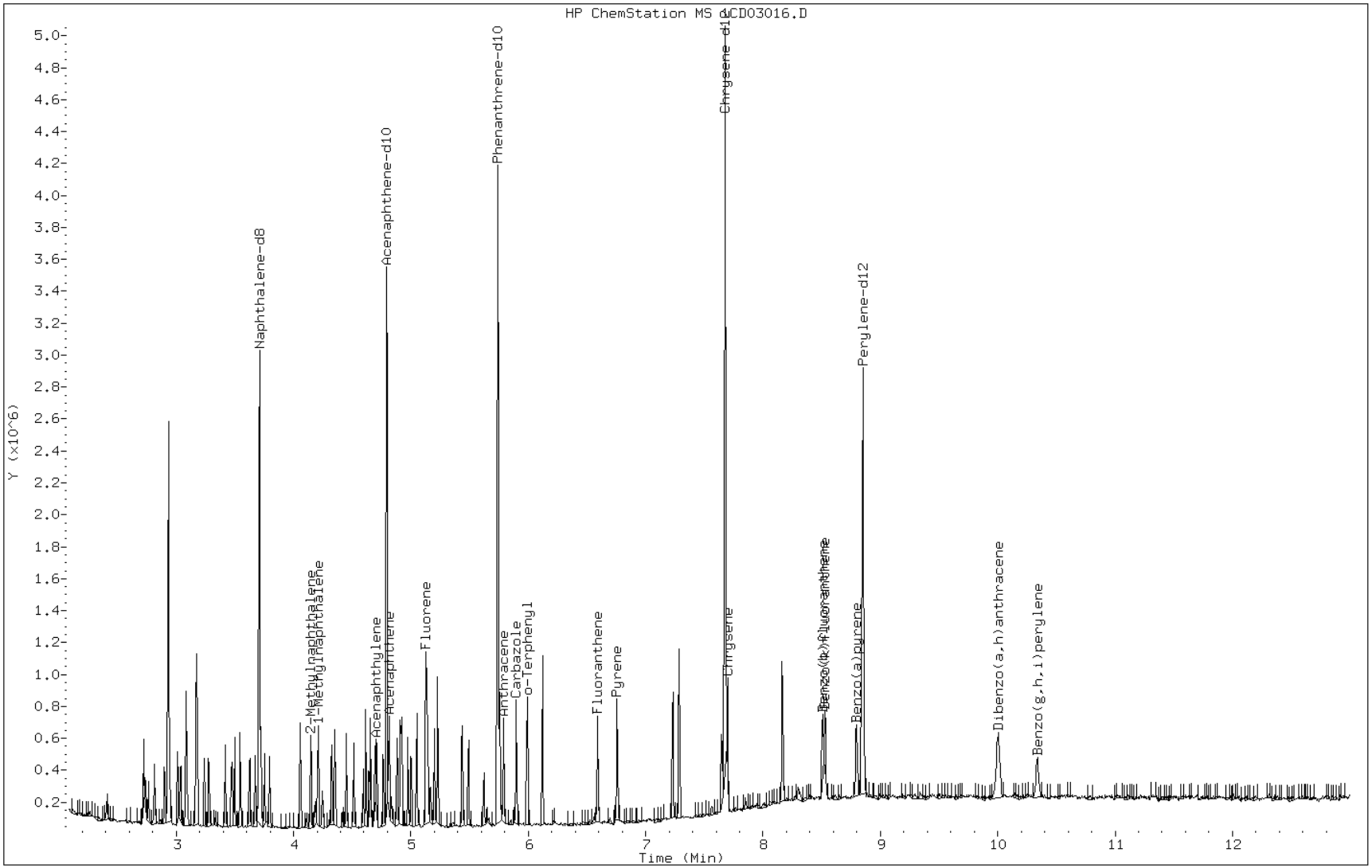
M - Compound response manually integrated.

Data File: 1CD03016.D

Date: 03-APR-2013 15:52

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-136063/2-a Operator: SCC



Manual Integration Report

Data File: 1CD03016.D
Inj. Date and Time: 03-APR-2013 15:52
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

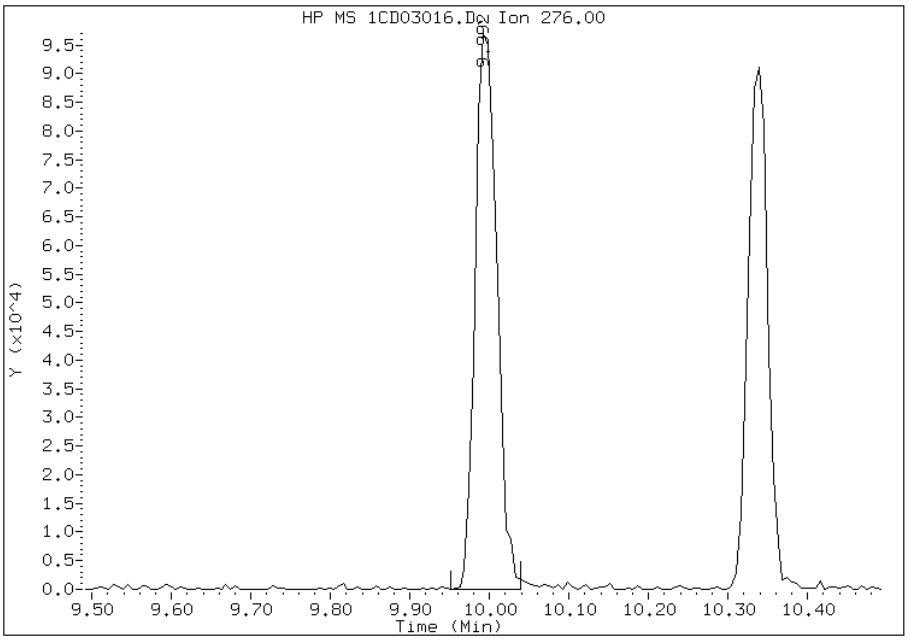
Processing Integration Results

RT: 9.99

Response: 182593

Amount: 7

Conc: 500



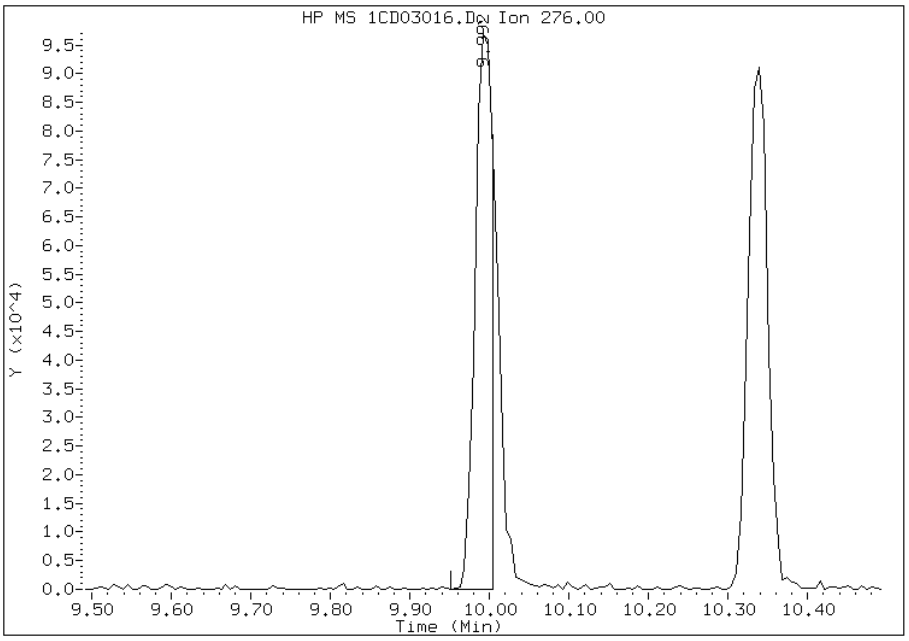
Manual Integration Results

RT: 9.99

Response: 145625

Amount: 6

Conc: 399



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-88766-2
SDG No.: 68088766-2
Client Sample ID:
Lab Sample ID: LCSD 660-136013/3-A
Matrix: Water
Lab File ID: 1DD04024.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3520C
Date Extracted: 04/02/2013 08:08
Sample wt/vol: 1000(mL)
Date Analyzed: 04/04/2013 20:36
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.: 136164
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.35		2.0	0.50
208-96-8	Acenaphthylene	7.42		1.0	0.25
120-12-7	Anthracene	7.14		0.20	0.076
56-55-3	Benzo[a]anthracene	7.19		0.20	0.050
50-32-8	Benzo[a]pyrene	5.01		0.20	0.057
205-99-2	Benzo[b]fluoranthene	5.92		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	3.91		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.65		0.20	0.057
218-01-9	Chrysene	6.91		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.54		0.20	0.050
206-44-0	Fluoranthene	7.94		0.50	0.054
86-73-7	Fluorene	7.90		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.59		0.20	0.050
90-12-0	1-Methylnaphthalene	7.77		2.0	0.50
91-57-6	2-Methylnaphthalene	7.56		2.0	0.50
91-20-3	Naphthalene	7.36		2.0	0.25
85-01-8	Phenanthrene	7.41		0.50	0.20
129-00-0	Pyrene	7.46		0.50	0.089

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

TestAmerica Laboratories

Semivolatile 8270 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\1DD04024.D
Lab Smp Id: LCSD 660-136013/3-A
Inj Date : 04-APR-2013 20:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCSD 660-136013/3-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D040413.b\dFASTPAHi.m
Meth Date : 05-Apr-2013 13:07 cantins Quant Type: ISTD
Cal Date : 04-APR-2013 16:04 Cal File: 1DD04013.D
Als bottle: 22 QC Sample: LCSD
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	6.090	6.090	(1.000)	2700850	40.0000	
* 6 Acenaphthene-d10	164	7.770	7.770	(1.000)	1619728	40.0000	
* 9 Phenanthrene-d10	188	9.028	9.028	(1.000)	2719610	40.0000	
$ 13 o-Terphenyl	230	9.327	9.339	(1.033)	295542	7.21232	7.2
* 17 Chrysene-d12	240	11.337	11.349	(1.000)	2765140	40.0000	
* 22 Perylene-d12	264	13.170	13.176	(1.000)	2782071	40.0000	
2 Naphthalene	128	6.113	6.114	(1.004)	494316	7.36345	7.4
3 2-Methylnaphthalene	142	6.819	6.819	(1.120)	327714	7.56231	7.6
4 1-Methylnaphthalene	142	6.907	6.913	(1.134)	317804	7.76581	7.8
5 Acenaphthylene	152	7.641	7.641	(0.983)	508668	7.41997	7.4
7 Acenaphthene	154	7.794	7.800	(1.003)	310956	7.34842	7.3
8 Fluorene	166	8.235	8.240	(1.060)	396073	7.90396	7.9
10 Phenanthrene	178	9.039	9.051	(1.001)	555014	7.40900	7.4
11 Anthracene	178	9.081	9.092	(1.006)	530832	7.13953	7.1
12 Carbazole	167	9.222	9.233	(1.021)	507939	7.74506	7.7
14 Fluoranthene	202	10.021	10.032	(1.110)	611727	7.93556	7.9
15 Pyrene	202	10.209	10.220	(0.900)	619595	7.46168	7.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.319	11.325	(0.998)	574573	7.18704	7.2
18 Chrysene	228	11.360	11.378	(1.002)	518298	6.91426	6.9
19 Benzo(b)fluoranthene	252	12.612	12.635	(0.958)	411516	5.92137	5.9
20 Benzo(k)fluoranthene	252	12.647	12.682	(0.960)	413704	5.65053	5.6
21 Benzo(a)pyrene	252	13.064	13.094	(0.992)	349884	5.01065	5.0
23 Indeno(1,2,3-cd)pyrene	276	14.733	14.786	(1.119)	267607	3.59410	3.6(MH)
24 Dibenzo(a,h)anthracene	278	14.762	14.827	(1.121)	248551	3.54488	3.5(H)
25 Benzo(g,h,i)perylene	276	15.173	15.238	(1.152)	280575	3.91361	3.9(H)

QC Flag Legend

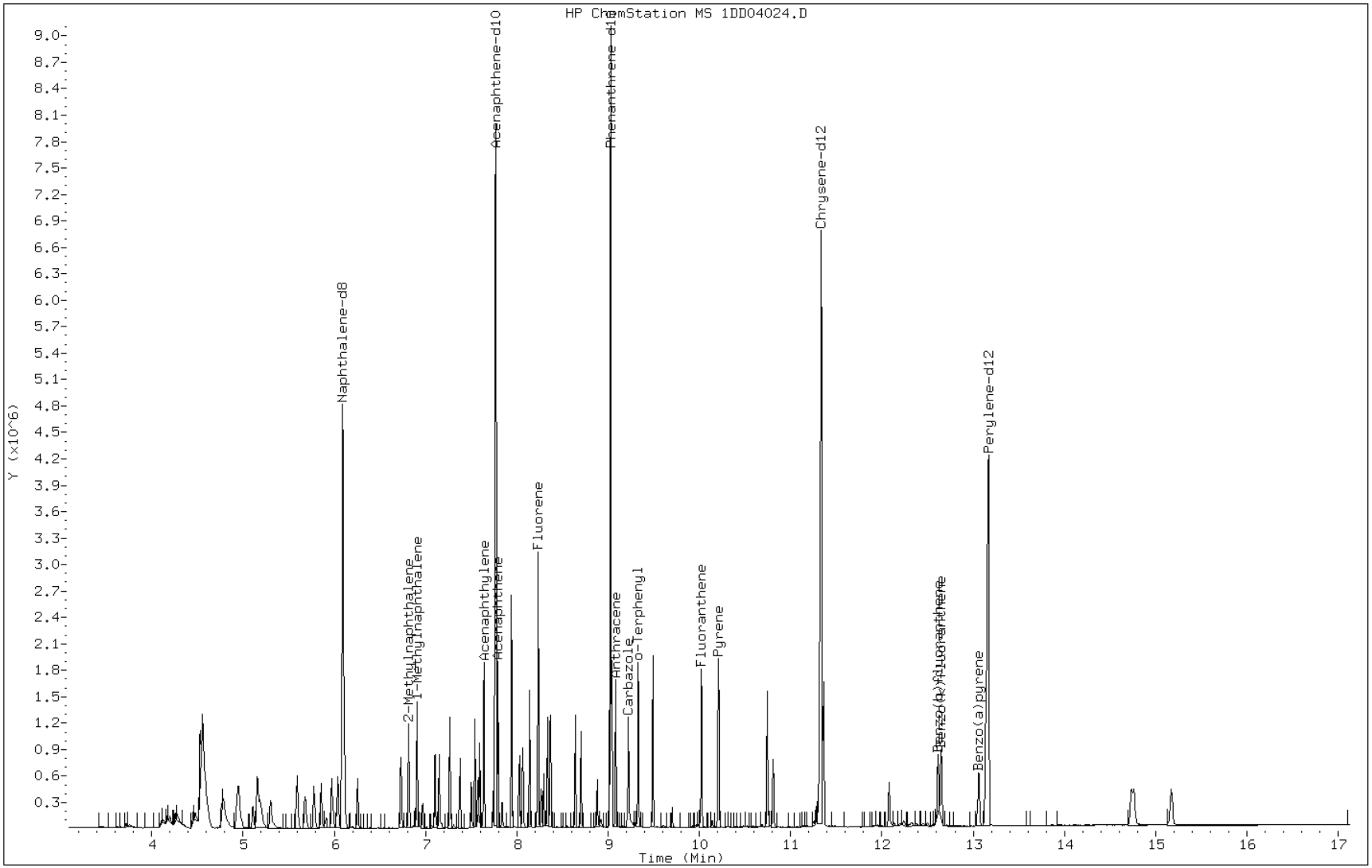
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DD04024.D

Date: 04-APR-2013 20:36

Client ID: Instrument: BSMSD.i

Sample Info: LCSD 660-136013/3-A Operator: SCC



Manual Integration Report

Data File: 1DD04024.D
Inj. Date and Time: 04-APR-2013 20:36
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

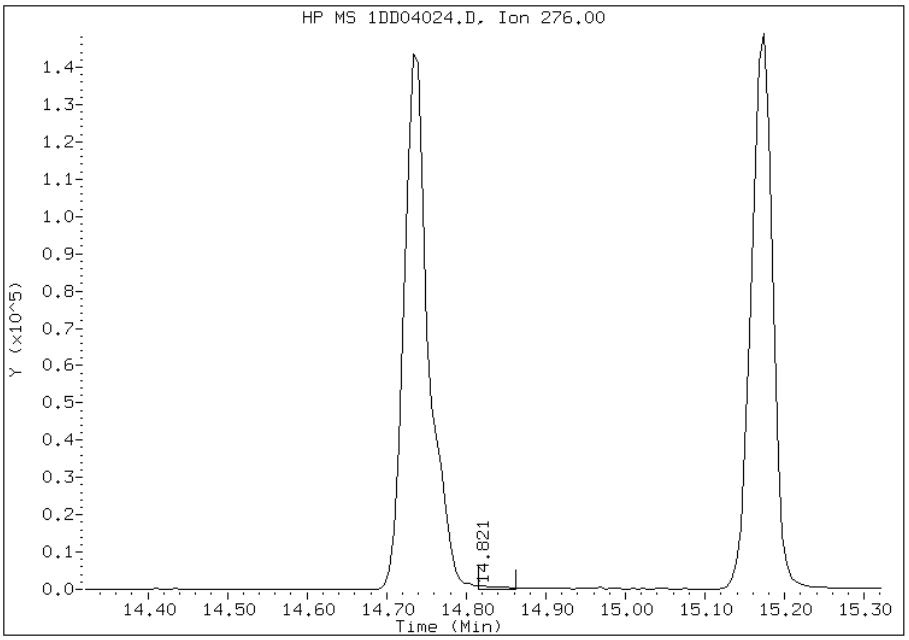
Processing Integration Results

RT: 14.82

Response: 1981

Amount: 0

Conc: 0



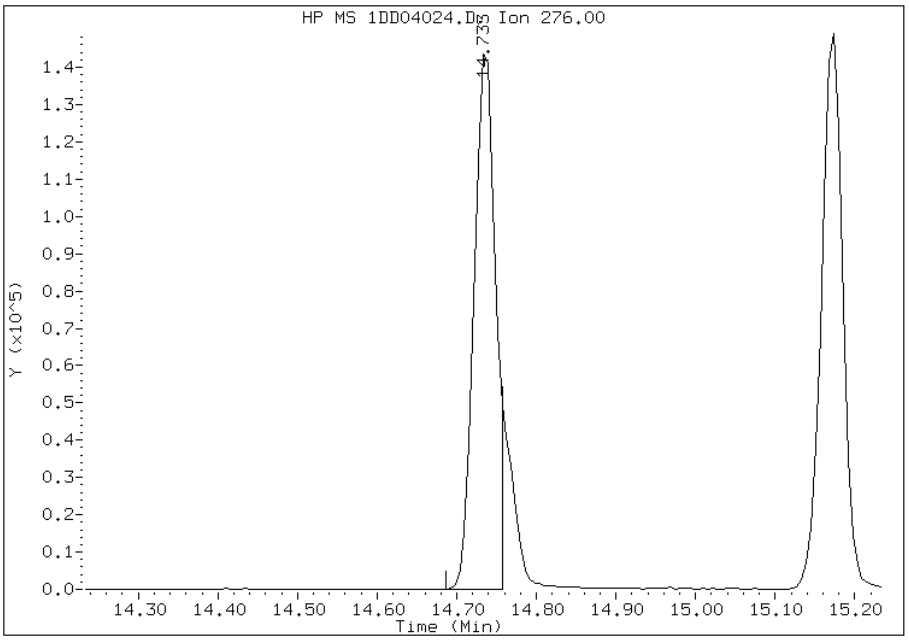
Manual Integration Results

RT: 14.73

Response: 267607

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: CV0014AB-GS MS | Lab Sample ID: 680-88766-21 MS

Matrix: Solid | Lab File ID: 1CD03018.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 15:18

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 15.32(g) | Date Analyzed: 04/03/2013 16:29

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

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

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	656		530	110
208-96-8	Acenaphthylene	626		210	27
120-12-7	Anthracene	666		45	22
56-55-3	Benzo[a]anthracene	833		42	21
50-32-8	Benzo[a]pyrene	650		55	28
205-99-2	Benzo[b]fluoranthene	738		65	32
191-24-2	Benzo[g,h,i]perylene	623		110	23
207-08-9	Benzo[k]fluoranthene	667		42	19
218-01-9	Chrysene	780		48	24
53-70-3	Dibenz(a,h)anthracene	622		110	22
206-44-0	Fluoranthene	697		110	21
86-73-7	Fluorene	639		110	22
193-39-5	Indeno[1,2,3-cd]pyrene	532		110	38
90-12-0	1-Methylnaphthalene	653		210	23
91-57-6	2-Methylnaphthalene	653		210	38
91-20-3	Naphthalene	681		210	23
85-01-8	Phenanthrene	690		42	21
129-00-0	Pyrene	750		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	92		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03018.D
Lab Smp Id: 680-88766-a-21-e ms
Inj Date : 03-APR-2013 16:29
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-21-e ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 18 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.320	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	604618	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	447317	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	819020	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	20991	2.29558	599.3677
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	882360	40.0000	
* 23 Perylene-d12	264	8.851	8.851	(1.000)	885344	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	29924	1.92692	503.1110
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	19529	1.84738	482.3454
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	17586	1.84882	482.7217
5 Acenaphthylene	152	4.704	4.704	(0.982)	32783	1.77078	462.3434
7 Acenaphthene	154	4.815	4.816	(1.005)	21291	1.85679	484.8005
9 Fluorene	166	5.133	5.133	(1.071)	27627	1.80733	471.8875
11 Phenanthrene	178	5.757	5.757	(1.003)	46547	1.95136	509.4924
12 Anthracene	178	5.792	5.792	(1.009)	45559	1.88411	491.9353

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	41473	2.00192	522.6941
15 Fluoranthene	202	6.592	6.592	(1.149)	51944	1.97180	514.8315
16 Pyrene	202	6.757	6.757	(0.880)	51906	2.12364	554.4739
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	56786	2.35675	615.3405
19 Chrysene	228	7.698	7.698	(1.002)	55519	2.20809	576.5258
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	52279	2.08870	545.3529
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	45683	1.88711	492.7170
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	43357	1.83992	480.3966
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	33696	1.50550	393.0811(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	36413	1.76116	459.8320(M)
26 Benzo(g,h,i)perylene	276	10.339	10.339	(1.168)	40267	1.76274	460.2452(M)

QC Flag Legend

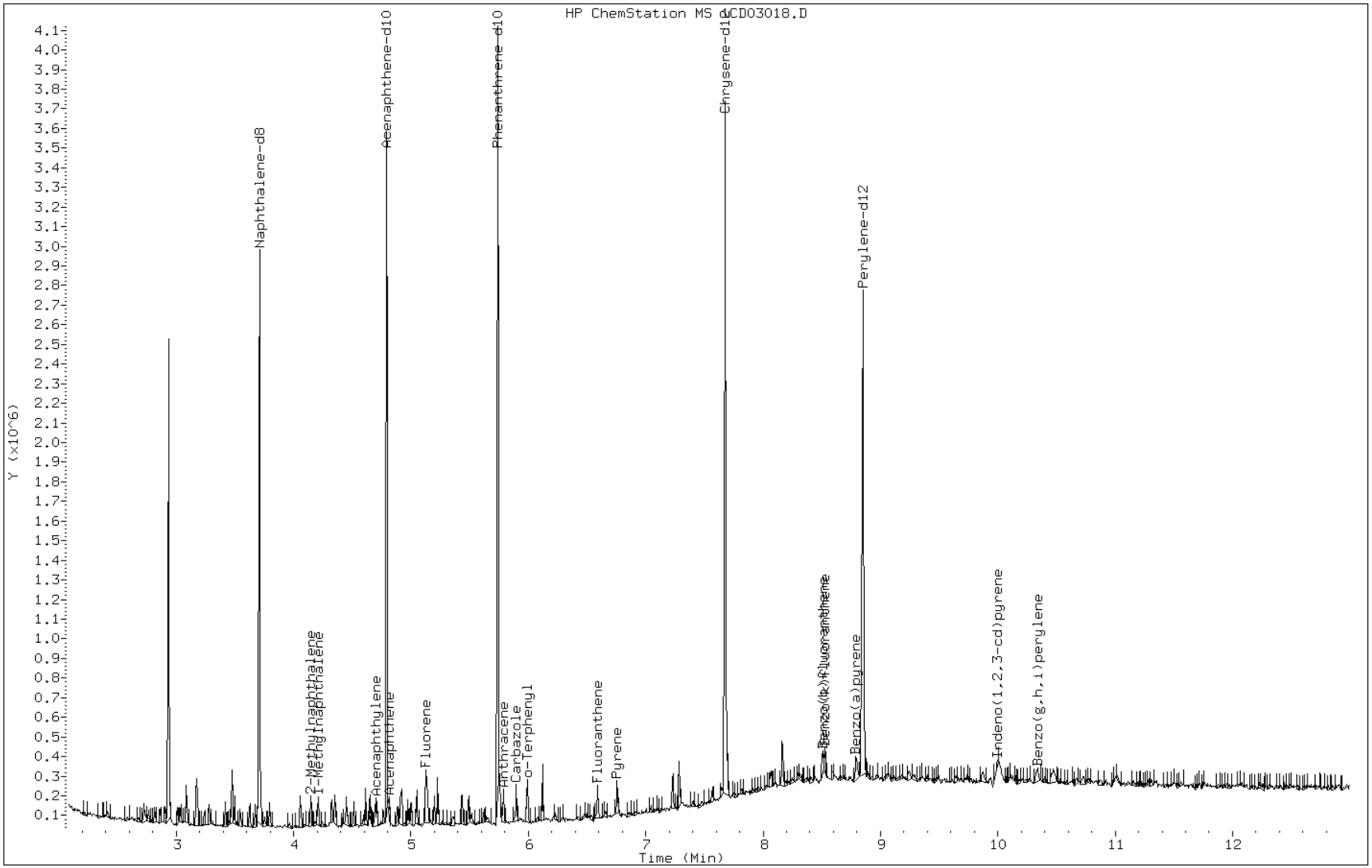
M - Compound response manually integrated.

Data File: 1CD03018.D

Date: 03-APR-2013 16:29

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-e ms Operator: SCC



Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/04/2013

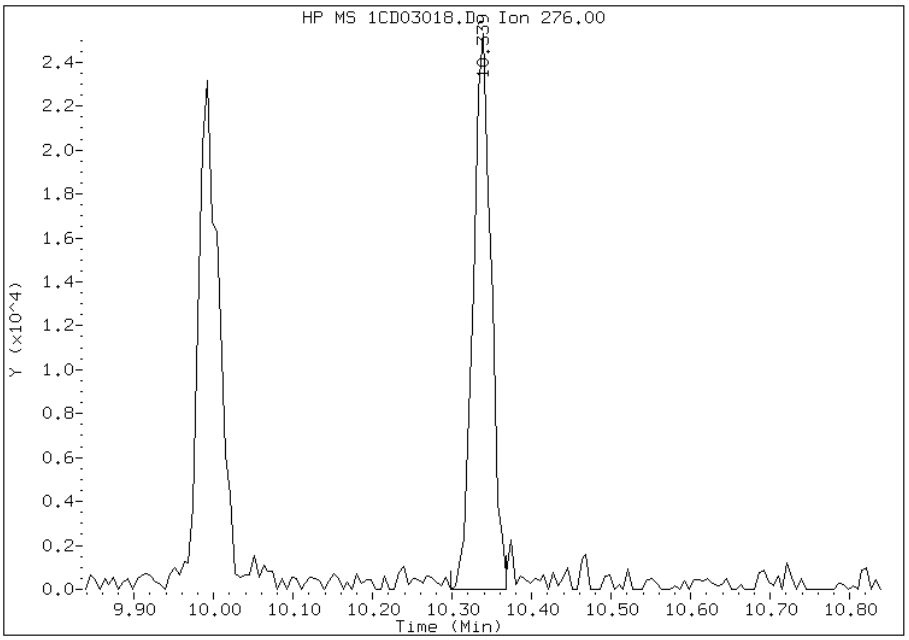
Processing Integration Results

RT: 10.34

Response: 39429

Amount: 2

Conc: 451



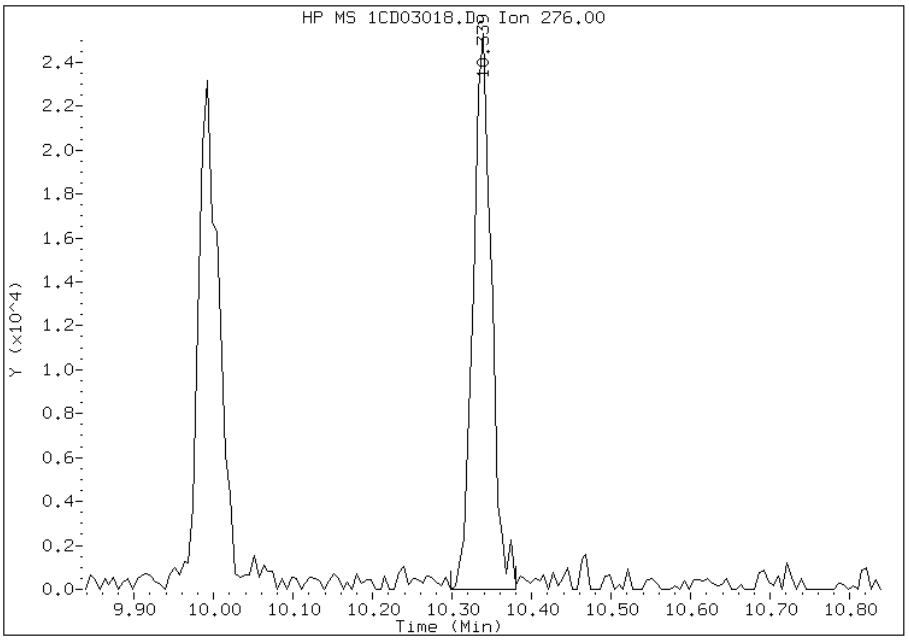
Manual Integration Results

RT: 10.34

Response: 40267

Amount: 2

Conc: 460



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/04/2013

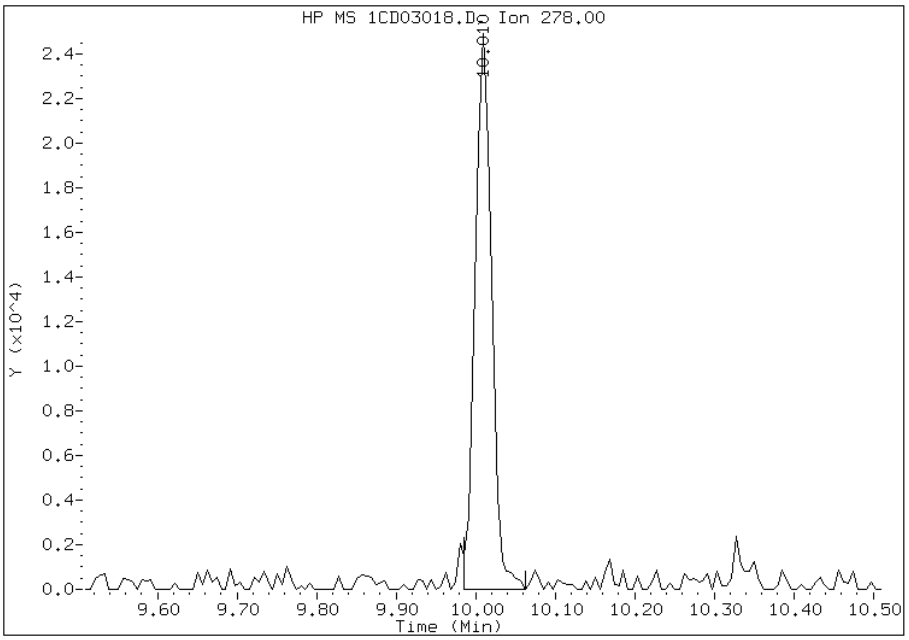
Processing Integration Results

RT: 10.01

Response: 35621

Amount: 2

Conc: 450



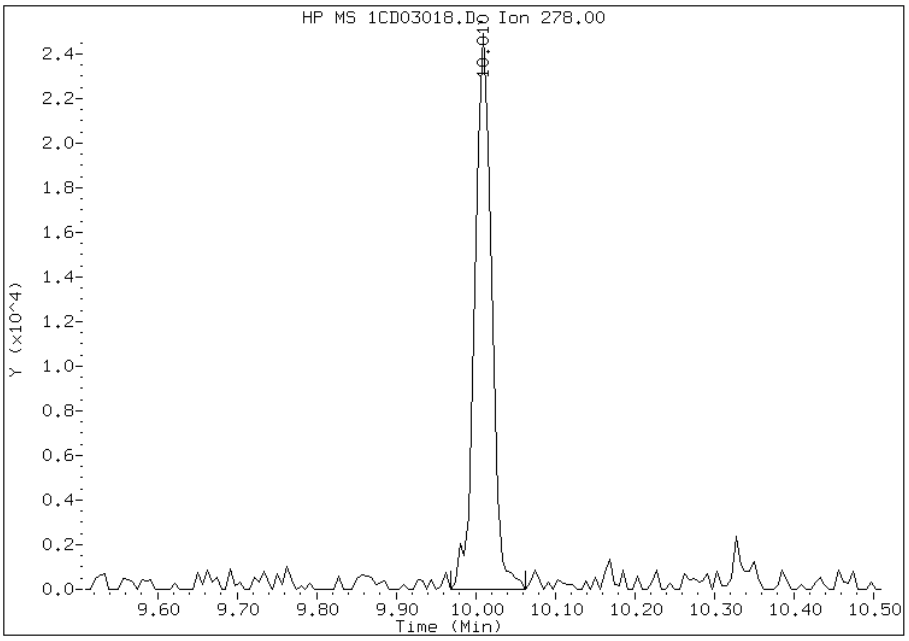
Manual Integration Results

RT: 10.01

Response: 36413

Amount: 2

Conc: 460



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CD03018.D
Inj. Date and Time: 03-APR-2013 16:29
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

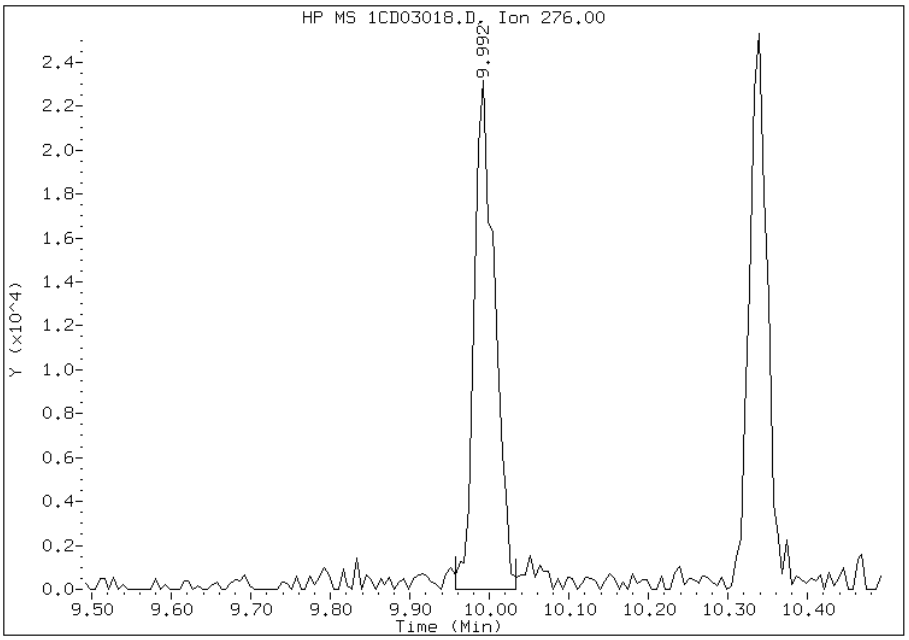
Processing Integration Results

RT: 9.99

Response: 41575

Amount: 2

Conc: 485



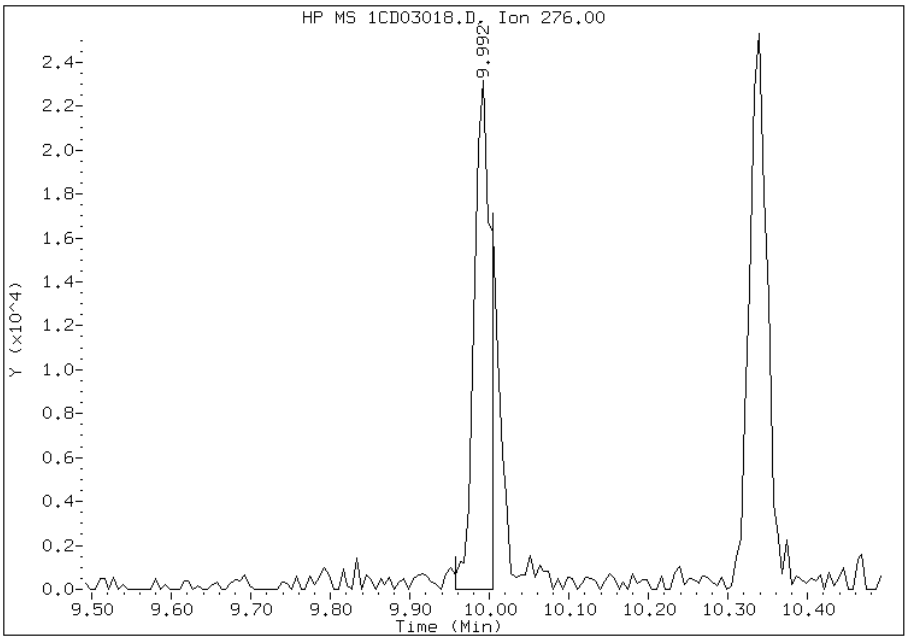
Manual Integration Results

RT: 9.99

Response: 33696

Amount: 2

Conc: 393



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: 032613-RB-shovel MS | Lab Sample ID: 680-88766-23 MS

Matrix: Water | Lab File ID: 1CD05007.D

Analysis Method: 8270C LL | Date Collected: 03/26/2013 13:00

Extract. Method: 3520C | Date Extracted: 04/02/2013 08:08

Sample wt/vol: 960(mL) | Date Analyzed: 04/05/2013 13:12

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.: 136171 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	4.74		2.1	0.52
208-96-8	Acenaphthylene	5.18		1.0	0.26
120-12-7	Anthracene	4.97		0.21	0.079
56-55-3	Benzo[a]anthracene	4.72		0.21	0.052
50-32-8	Benzo[a]pyrene	2.13		0.21	0.059
205-99-2	Benzo[b]fluoranthene	2.68		0.21	0.052
191-24-2	Benzo[g,h,i]perylene	1.33		0.52	0.10
207-08-9	Benzo[k]fluoranthene	2.38		0.21	0.059
218-01-9	Chrysene	3.55		0.21	0.072
53-70-3	Dibenz(a,h)anthracene	1.12		0.21	0.052
206-44-0	Fluoranthene	5.46		0.52	0.056
86-73-7	Fluorene	4.83		2.1	0.52
193-39-5	Indeno[1,2,3-cd]pyrene	1.28		0.21	0.052
90-12-0	1-Methylnaphthalene	5.64		2.1	0.52
91-57-6	2-Methylnaphthalene	4.68		2.1	0.52
91-20-3	Naphthalene	5.39		2.1	0.26
85-01-8	Phenanthrene	5.42		0.52	0.21
129-00-0	Pyrene	5.24		0.52	0.093

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\1CD05007.D
Lab Smp Id: 680-88766-B-23-B MS
Inj Date : 05-APR-2013 13:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-B-23-B MS
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040513.b\a-bFASTPAHi-m.m
Meth Date : 05-Apr-2013 12:31 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/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	960.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.692	3.692	(1.000)	411549	40.0000	
* 6 Acenaphthene-d10	164	4.774	4.780	(1.000)	313598	40.0000	
* 10 Phenanthrene-d10	188	5.721	5.721	(1.000)	608819	40.0000	
$ 14 o-Terphenyl	230	5.974	5.974	(1.044)	41438	4.89529	5.0992
* 18 Chrysene-d12	240	7.657	7.662	(1.000)	752169	40.0000	
* 23 Perylene-d12	264	8.821	8.827	(1.000)	802662	40.0000	
2 Naphthalene	128	3.704	3.704	(1.003)	54689	5.17371	5.3892(R)
3 2-Methylnaphthalene	142	4.133	4.133	(1.119)	32325	4.49236	4.6795(R)
4 1-Methylnaphthalene	142	4.192	4.192	(1.135)	35049	5.41332	5.6388
5 Acenaphthylene	152	4.692	4.692	(0.983)	64565	4.97455	5.1818
7 Acenaphthene	154	4.798	4.798	(1.005)	36555	4.54731	4.7367(R)
9 Fluorene	166	5.116	5.116	(1.071)	49688	4.63657	4.8297(R)
11 Phenanthrene	178	5.739	5.739	(1.003)	92320	5.20651	5.4234(R)
12 Anthracene	178	5.768	5.774	(1.008)	85715	4.76865	4.9673
13 Carbazole	167	5.880	5.880	(1.028)	81580	5.29750	5.5182
15 Fluoranthene	202	6.568	6.574	(1.148)	102690	5.24400	5.4625(R)
16 Pyrene	202	6.739	6.739	(0.880)	104769	5.02835	5.2378(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.651	7.651	(0.999)	95789	4.53082	4.7196(R)
19 Chrysene	228	7.674	7.680	(1.002)	73051	3.40826	3.5502(R)
20 Benzo(b)fluoranthene	252	8.480	8.486	(0.961)	58382	2.57281	2.6800(R)
21 Benzo(k)fluoranthene	252	8.504	8.509	(0.964)	50112	2.28330	2.3784(R)
22 Benzo(a)pyrene	252	8.768	8.774	(0.994)	43747	2.04770	2.1330(R)
24 Indeno(1,2,3-cd)pyrene	276	9.956	9.962	(1.129)	24986	1.23134	1.2826(RM)
25 Dibenzo(a,h)anthracene	278	9.968	9.980	(1.130)	20244	1.07998	1.1249(R)
26 Benzo(g,h,i)perylene	276	10.286	10.303	(1.166)	26358	1.27271	1.3257(R)

QC Flag Legend

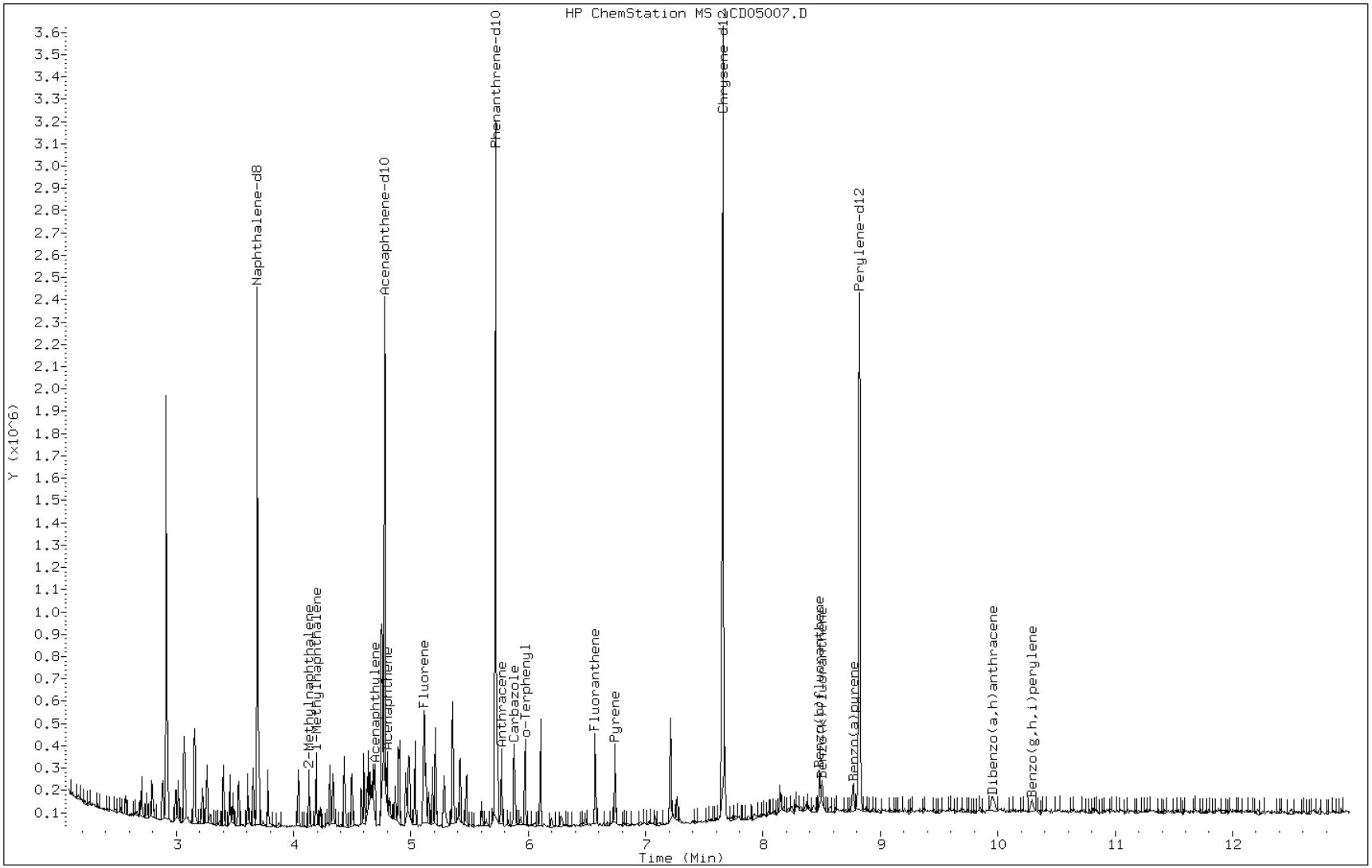
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CD05007.D

Date: 05-APR-2013 13:12

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88766-B-23-B MS Operator: SCC



Manual Integration Report

Data File: 1CD05007.D
Inj. Date and Time: 05-APR-2013 13:12
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/05/2013

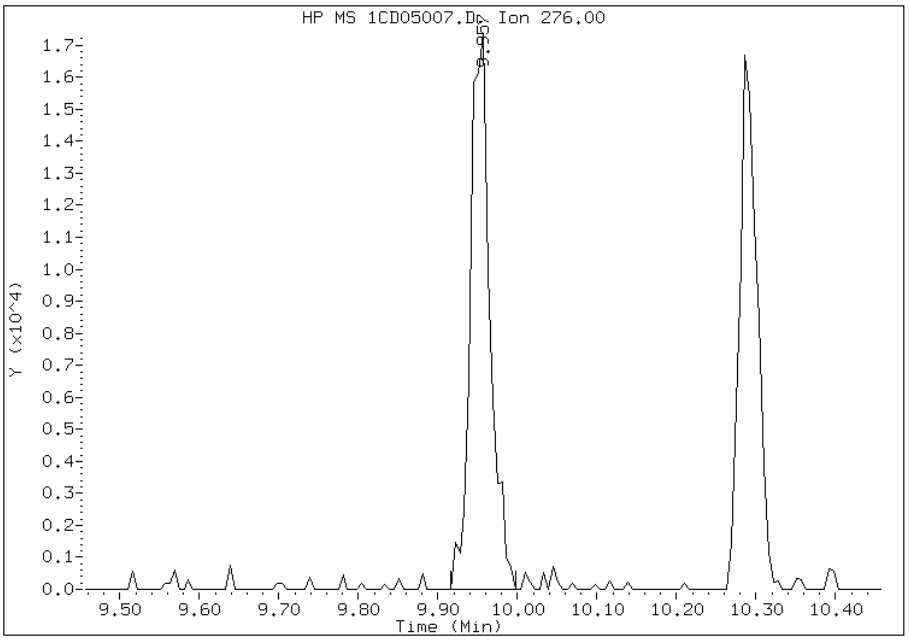
Processing Integration Results

RT: 9.96

Response: 30035

Amount: 1

Conc: 2



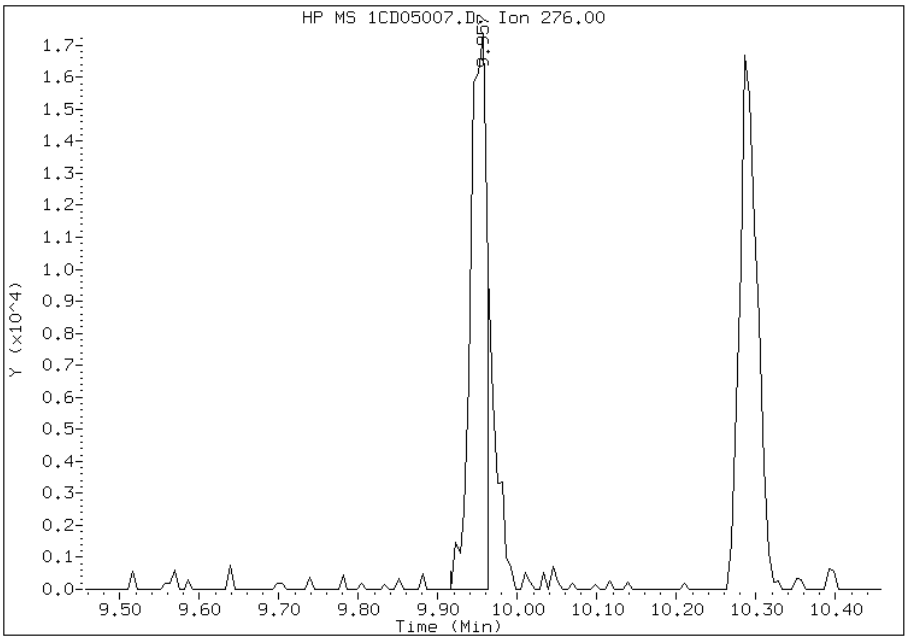
Manual Integration Results

RT: 9.96

Response: 24986

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 05-Apr-2013 13:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-88766-2

SDG No.: 68088766-2

Client Sample ID: CV0014AB-GS MSD | Lab Sample ID: 680-88766-21 MSD

Matrix: Solid | Lab File ID: 1CD03019.D

Analysis Method: 8270C LL | Date Collected: 03/25/2013 15:18

Extract. Method: 3546 | Date Extracted: 04/02/2013 11:33

Sample wt/vol: 14.60(g) | Date Analyzed: 04/03/2013 16:47

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

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

% Moisture: 26.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 136081 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	669		560	110
208-96-8	Acenaphthylene	686		220	28
120-12-7	Anthracene	674		47	23
56-55-3	Benzo[a]anthracene	856		44	22
50-32-8	Benzo[a]pyrene	651		58	29
205-99-2	Benzo[b]fluoranthene	710		68	34
191-24-2	Benzo[g,h,i]perylene	618		110	24
207-08-9	Benzo[k]fluoranthene	822		44	20
218-01-9	Chrysene	739		50	25
53-70-3	Dibenz(a,h)anthracene	713		110	23
206-44-0	Fluoranthene	780		110	22
86-73-7	Fluorene	657		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	659		110	39
90-12-0	1-Methylnaphthalene	709		220	24
91-57-6	2-Methylnaphthalene	671		220	39
91-20-3	Naphthalene	648		220	24
85-01-8	Phenanthrene	758		44	22
129-00-0	Pyrene	878		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\1CD03019.D
Lab Smp Id: 680-88766-a-21-f ms
Inj Date : 03-APR-2013 16:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-88766-a-21-f msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040313.b\a-bFASTPAHi-m.m
Meth Date : 03-Apr-2013 11:59 cantins Quant Type: ISTD
Cal Date : 02-APR-2013 15:15 Cal File: 1CD02011.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.600	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.710	3.704	(1.000)	599290	40.0000	
* 6 Acenaphthene-d10	164	4.792	4.792	(1.000)	437990	40.0000	
* 10 Phenanthrene-d10	188	5.739	5.739	(1.000)	801261	40.0000	
$ 14 o-Terphenyl	230	5.992	5.992	(1.044)	22282	2.42909	665.5045
* 18 Chrysene-d12	240	7.680	7.680	(1.000)	885431	40.0000	
* 23 Perylene-d12	264	8.850	8.851	(1.000)	855561	40.0000	
2 Naphthalene	128	3.721	3.722	(1.003)	26909	1.74817	478.9516
3 2-Methylnaphthalene	142	4.145	4.145	(1.117)	18972	1.81065	496.0680
4 1-Methylnaphthalene	142	4.210	4.210	(1.135)	18036	1.91299	524.1069
5 Acenaphthylene	152	4.704	4.704	(0.982)	33560	1.85135	507.2185
7 Acenaphthene	154	4.815	4.816	(1.005)	20252	1.80379	494.1878
9 Fluorene	166	5.133	5.133	(1.071)	26513	1.77139	485.3117
11 Phenanthrene	178	5.757	5.757	(1.003)	47684	2.04333	559.8158
12 Anthracene	178	5.792	5.792	(1.009)	43006	1.81795	498.0687

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.898	5.898	(1.028)	40592	2.00282	548.7177
15 Fluoranthene	202	6.592	6.592	(1.149)	54214	2.10359	576.3252
16 Pyrene	202	6.756	6.757	(0.880)	58049	2.36673	648.4183
17 Benzo(a)anthracene	228	7.668	7.668	(0.998)	55755	2.30886	632.5654
19 Chrysene	228	7.698	7.698	(1.002)	50258	1.99192	545.7319
20 Benzo(b)fluoranthene	252	8.509	8.509	(0.961)	46327	1.91533	524.7488
21 Benzo(k)fluoranthene	252	8.527	8.533	(0.963)	51872	2.21736	607.4953
22 Benzo(a)pyrene	252	8.792	8.798	(0.993)	39958	1.75471	480.7413
24 Indeno(1,2,3-cd)pyrene	276	9.992	9.992	(1.129)	38467	1.77849	487.2581(M)
25 Dibenzo(a,h)anthracene	278	10.009	10.009	(1.131)	38424	1.92311	526.8807
26 Benzo(g,h,i)perylene	276	10.333	10.339	(1.167)	36793	1.66673	456.6381

QC Flag Legend

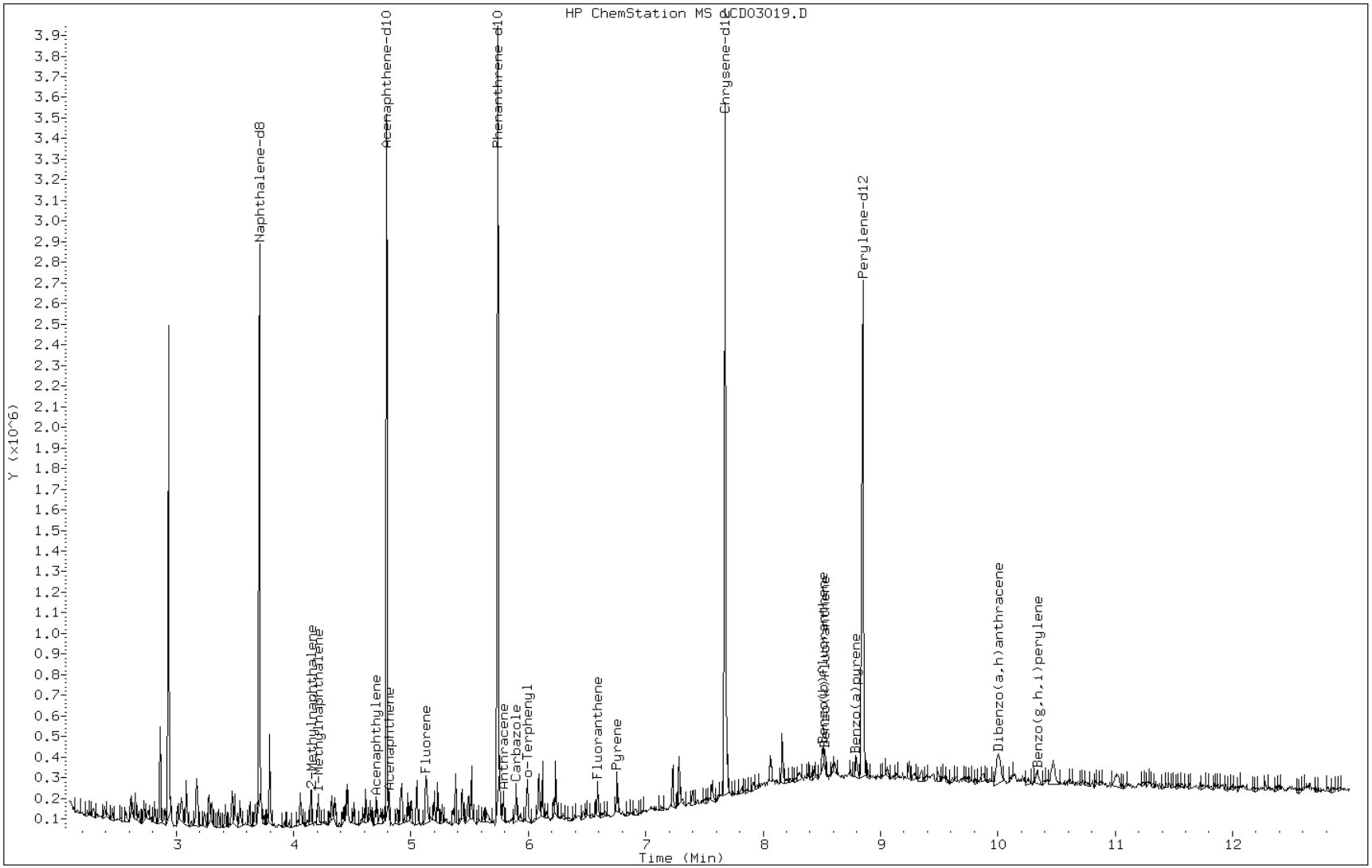
M - Compound response manually integrated.

Data File: 1CD03019.D

Date: 03-APR-2013 16:47

Client ID: Instrument: BSMC5973.i

Sample Info: 680-88766-a-21-f msd Operator: SCC



Manual Integration Report

Data File: 1CD03019.D
Inj. Date and Time: 03-APR-2013 16:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/04/2013

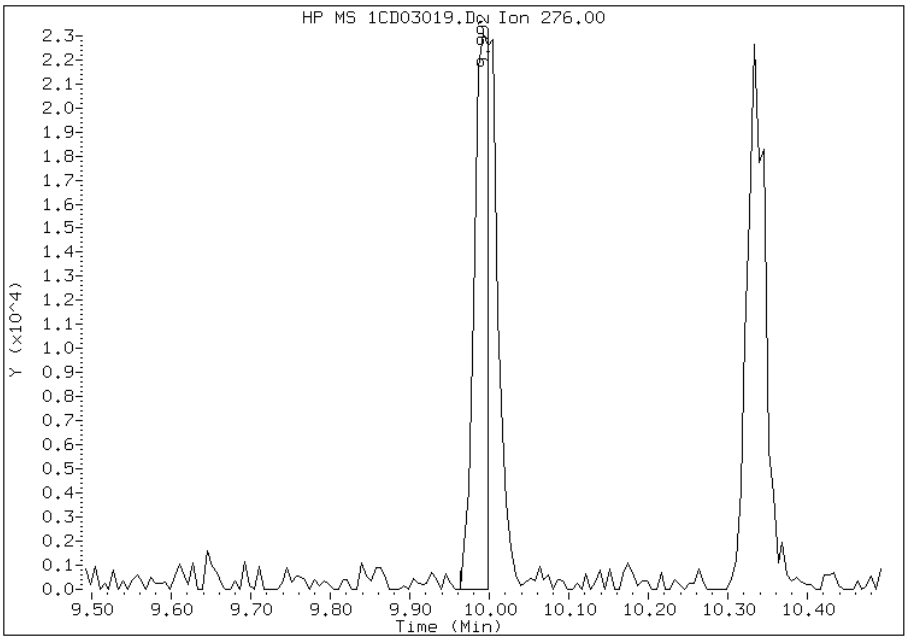
Processing Integration Results

RT: 9.99

Response: 30001

Amount: 1

Conc: 380



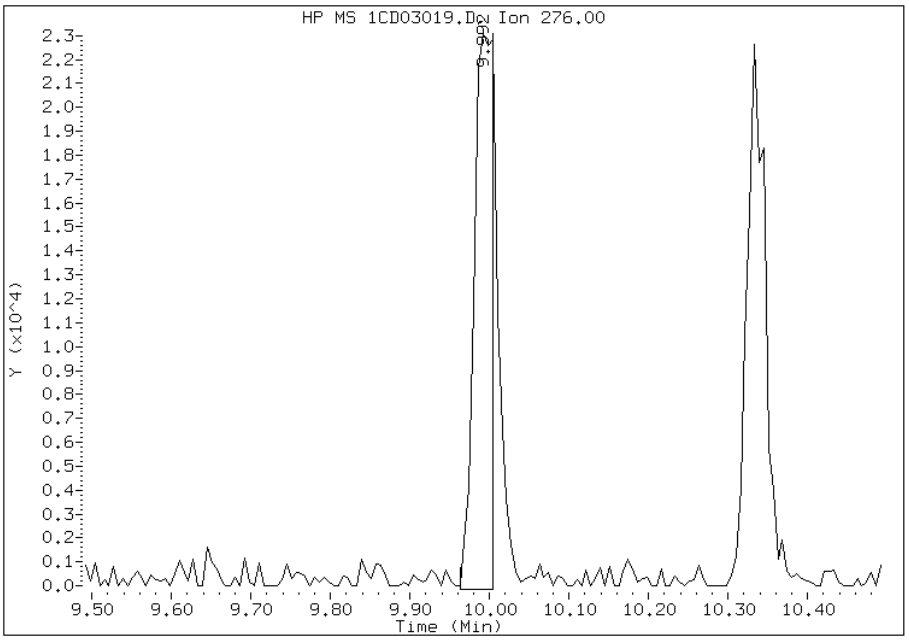
Manual Integration Results

RT: 9.99

Response: 38467

Amount: 2

Conc: 487



Manually Integrated By: cantins
Modification Date: 04-Apr-2013 15:35
Manual Integration Reason: Baseline Event

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Start Date: 04/02/2013 10:54

Analysis Batch Number: 136048 End Date: 04/02/2013 15:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/02/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		04/02/2013 11:13	1		DB-5MS 250(um)
DFTPP 660-136048/2		04/02/2013 11:31	1	1CD02002.D	DB-5MS 250(um)
CCVIS 660-136048/3		04/02/2013 11:49	1		DB-5MS 250(um)
CCVIS 660-136048/4		04/02/2013 12:09	1		DB-5MS 250(um)
IC 660-136048/5		04/02/2013 13:26	1	1CD02005.D	DB-5MS 250(um)
IC 660-136048/6		04/02/2013 13:44	1	1CD02006.D	DB-5MS 250(um)
IC 660-136048/7		04/02/2013 14:02	1	1CD02007.D	DB-5MS 250(um)
IC 660-136048/8		04/02/2013 14:20	1	1CD02008.D	DB-5MS 250(um)
ICIS 660-136048/9		04/02/2013 14:39	1	1CD02009.D	DB-5MS 250(um)
IC 660-136048/10		04/02/2013 14:57	1	1CD02010.D	DB-5MS 250(um)
IC 660-136048/11		04/02/2013 15:15	1	1CD02011.D	DB-5MS 250(um)
ICV 660-136048/12		04/02/2013 15:34	1	1CD02012.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Start Date: 04/03/2013 10:52

Analysis Batch Number: 136081 End Date: 04/03/2013 22:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2013 10:52	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 11:10	1		DB-5MS 250(um)
DFTPP 660-136081/2		04/03/2013 11:28	1	1CD03002.D	DB-5MS 250(um)
CCVIS 660-136081/3		04/03/2013 11:45	1	1CD03003.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 12:04	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 12:22	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 12:40	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 12:59	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 13:17	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 13:35	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 13:54	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 14:12	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 14:30	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 14:49	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 15:07	4		DB-5MS 250(um)
MB 660-136063/1-A		04/03/2013 15:34	1	1CD03015.D	DB-5MS 250(um)
LCS 660-136063/2-A		04/03/2013 15:52	1	1CD03016.D	DB-5MS 250(um)
680-88766-21	CV0014AB-GS	04/03/2013 16:10	4	1CD03017.D	DB-5MS 250(um)
680-88766-21 MS	CV0014AB-GS MS	04/03/2013 16:29	4	1CD03018.D	DB-5MS 250(um)
680-88766-21 MSD	CV0014AB-GS MSD	04/03/2013 16:47	4	1CD03019.D	DB-5MS 250(um)
ZZZZZ		04/03/2013 17:05	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:24	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 17:42	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:00	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:19	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:37	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:13	4		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:32	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 19:50	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:08	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 20:45	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:03	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:21	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:40	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 22:17	1		DB-5MS 250(um)
ZZZZZ		04/03/2013 22:35	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMC5973 Start Date: 04/05/2013 10:58

Analysis Batch Number: 136171 End Date: 04/05/2013 13:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/05/2013 10:58	1		DB-5MS 250(um)
ZZZZZ		04/05/2013 11:18	1		DB-5MS 250(um)
DFTPP 660-136171/2		04/05/2013 11:37	1		DB-5MS 250(um)
DFTPP 660-136171/3		04/05/2013 11:57	1	1CD05003.D	DB-5MS 250(um)
CCVIS 660-136171/4		04/05/2013 12:15	1	1CD05004.D	DB-5MS 250(um)
ZZZZZ		04/05/2013 12:35	1		DB-5MS 250(um)
680-88766-23	032613-RB-shovel	04/05/2013 12:54	1	1CD05006.D	DB-5MS 250(um)
680-88766-23 MS	032613-RB-shovel MS	04/05/2013 13:12	1	1CD05007.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: BSMD5973 Start Date: 04/04/2013 11:04

Analysis Batch Number: 136164 End Date: 04/04/2013 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/04/2013 11:04	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 11:30	1		DB-5MS 250(um)
DFTPP 660-136164/2		04/04/2013 11:55	1		DB-5MS 250(um)
DFTPP 660-136164/3		04/04/2013 12:15	1	1DD04003.D	DB-5MS 250(um)
CCVIS 660-136164/4		04/04/2013 12:34	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:02	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 13:26	1		DB-5MS 250(um)
IC 660-136164/15		04/04/2013 13:49	1	1DD04007.D	DB-5MS 250(um)
IC 660-136164/16		04/04/2013 14:11	1	1DD04008.D	DB-5MS 250(um)
IC 660-136164/17		04/04/2013 14:34	1	1DD04009.D	DB-5MS 250(um)
IC 660-136164/18		04/04/2013 14:57	1	1DD04010.D	DB-5MS 250(um)
ICIS 660-136164/19		04/04/2013 15:19	1	1DD04011.D	DB-5MS 250(um)
IC 660-136164/20		04/04/2013 15:42	1	1DD04012.D	DB-5MS 250(um)
IC 660-136164/21		04/04/2013 16:04	1	1DD04013.D	DB-5MS 250(um)
ICV 660-136164/22		04/04/2013 16:27	1	1DD04014.D	DB-5MS 250(um)
ZZZZZ		04/04/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 17:44	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:09	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 18:35	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		04/04/2013 19:27	1		DB-5MS 250(um)
MB 660-136013/1-A		04/04/2013 19:51	1	1DD04022.D	DB-5MS 250(um)
LCS 660-136013/2-A		04/04/2013 20:13	1	1DD04023.D	DB-5MS 250(um)
LCSD 660-136013/3-A		04/04/2013 20:36	1	1DD04024.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Batch Number: 136013 Batch Start Date: 04/02/13 08:08 Batch Analyst: George, Abraham

Batch Method: 3520C Batch End Date: 04/03/13 10:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EX-625LVI SPK 00020	EXLLSURINT 00178
MB 660-136013/1		3520C, 8270C LL		1000 mL	1 mL	8	<2		1 mL
LCS 660-136013/2		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
LCSD 660-136013/3		3520C, 8270C LL		1000 mL	1 mL	8	<2	1 mL	1 mL
680-88766-A-23	032613-RB-shovel	3520C, 8270C LL	T	800 mL	1 mL	6	<2		1 mL
680-88766-B-23 MS	032613-RB-shovel	3520C, 8270C LL	T	960 mL	1 mL	6	<2	1 mL	1 mL

Batch Notes	
Acid used for pH adjustment	SULFURIC ACID
Acid used for pH adjust Lot #	EX 10H2S04 _6
Batch Comment	RUSH
Concentration End Time	6.30/4/3/13
Concentration Start Time	5.35/4/3/13
Person's name who did the concentration	AG
Exchange Solvent Lot #	NA/
Time the first extraction ended 24hr	12.45/4/2/13
Time the first extraction started 24 hr	8.45/4/2/13
pH Paper Lot Number	HC 273036
Prep Solvent Lot #	EX MC CYCL _55
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	AG
Person's name who witnessed reagent drop	RYAN
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2#1
Water Bath Temperature	40 C Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Batch Number: 136013 Batch Start Date: 04/02/13 08:08 Batch Analyst: George, Abraham

Batch Method: 3520C Batch End Date: 04/03/13 10:55

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Batch Number: 136063 Batch Start Date: 04/02/13 11:33 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/03/13 08:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-136063/1		3546, 8270C LL		14.99 g	1 mL		1 mL		
LCS 660-136063/2		3546, 8270C LL		14.97 g	1 mL	1 mL	1 mL		
680-88766-A-21	CV0014AB-GS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-88766-A-21 MS	CV0014AB-GS	3546, 8270C LL	T	15.32 g	1 mL	1 mL	1 mL		
680-88766-A-21 MSD	CV0014AB-GS	3546, 8270C LL	T	14.60 g	1 mL	1 mL	1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT 51
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 58
Microwave Start Time	12:30 4/2/13
Microwave Stop Time	13:05 4/2/13
Na2SO4 Lot Number	EX-NA2S04A 65
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT 178
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Batch Number: 136063 Batch Start Date: 04/02/13 11:33 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 04/03/13 08:20

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88766-2

SDG No.: 68088766-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0014AB-GS	680-88766-21

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88766-2

SDG Number: 68088766-2

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: 680-88766-2

SDG Number: 68088766-2

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.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 10:07 End Date: 03/29/2013 10:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/29/2013 10:07 End Date: 03/29/2013 10:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
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ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
680-88766-A-6 MS	1	T	10:07	X																			
680-88766-A-6 MSD	1	T	10:07	X																			
680-88766-21	1	T	10:07	X																			
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				
ZZZZZZ			10:07																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88766-2

SDG No.: 68088766-2

Batch Number: 135922 Batch Start Date: 03/29/13 10:07 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-88766-A-6 MS		Moisture	T	51	0 g	4.48 g	3.80 g		
680-88766-A-6 MSD		Moisture	T	51	0 g	4.48 g	3.80 g		
680-88766-A-21	CV0014AB-GS	Moisture	T	52	0 g	4.71 g	3.48 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.29.13
Date samples were removed from oven	3/30/13
Time Samples were removed from oven	8:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59598

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 2 OF 2
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT NAME: OTIE	CLIENT E-MAIL: lkrebs@otie		
CLIENT ADDRESS: 1220 Kennestone Circle Marietta, Ga			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LPAH	RCRA 8 Metals									REMARKS
		PRESERVATIVE																
3-25-13	1428	CV0613K-CSD	C		X			X	X									
	1332	CV0613AB-GS	G		X			X										
	1334	CV0613AC-GS	G		X			X										
	1440	CV0610A-CS	C		X			X										
	1442	CV0610B-CS	C		X			X										
	1439	CV0610AB-GS	G		X			X										
	1506	CV0506A-CS	C		X			X										
	1515	CV0506B-CS	C		X			X										
	1518	CV0014AB-GS	G		X			X										
	1343	CV0613E-CS (sieve)	C		X			~~X~~	X									
3-26-13	1300	032613-RB-Shovel		X				X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Hughlin	3-26-13	1330						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	03/28/13	0937	YES ○ NO ○		680-88766	1-4 c

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-2
SDG Number: 68088766-2

Login Number: 88766
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88766-2
SDG Number: 68088766-2

Login Number: 88766
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 03/29/13 09:17 AM

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 legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	