TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-85785-2

SDG Number: 68085785-2

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
12/28/2012 6:17 PM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
12/28/2012

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TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85785-2

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 12/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2º C and 5.6º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL

Samples CV0703B-CS-SP (680-85785-21), CV0705A-CS-SP (680-85785-22), CV0705B-CS-SP (680-85785-23), CV0705C-GS (680-85785-24), HP0179A-CS-SP (680-85785-25), HP0179B-CS-SP (680-85785-26), HP0294A-CS-SP (680-85785-27), HP0294B-CS-SP (680-85785-28), CV0511AB-GS (680-85785-29), CV0511A-CS (680-85785-30), CV0511A-CSD (680-85785-31), CV0511B-CS (680-85785-32), CV0511B-CSD (680-85785-33), CV0511C-CS (680-85785-34), CV0511C-CSD (680-85785-35), CV0511D-CS (680-85785-36), CV0511D-CSD (680-85785-37), CV0511E-CS (680-85785-38), CV0511F-CS (680-85785-39), CV0511G-CS (680-85785-40) and CV0511H-CS (680-85785-41) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 12/17/2012 and analyzed on 12/26/2012 and 12/27/2012.

Samples CV0511AB-GS (680-85785-29)[1000X], CV0511A-CS (680-85785-30)[50X], CV0511A-CSD (680-85785-31)[100X], CV0511B-CS (680-85785-32)[2X], CV0511B-CSD (680-85785-33)[4X], CV0511D-CS (680-85785-36)[4X], CV0511D-CSD (680-85785-37) [5X], CV0511E-CS (680-85785-38)[2X], CV0511F-CS (680-85785-39)[2X], CV0511G-CS (680-85785-40)[4X] and CV0511H-CS (680-85785-41)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. Surrogates did not recover in these samples due to the required dilutions.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Several analytes were detected in method blank MB 640-98123/1-A at levels exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Dibenz(a,h)anthracene, Fluoranthene and Pyrene were detected in method blank MB 640-98123/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

A crack in the vial caused the laboratory control sample duplicate (LCSD) for batch 640-98123 to be lost. The laboratory control sample (LCS) passed control criteria and has been reported. Prep batch 640-98123 was not reextracted due to the expiration of holding times. The data has been qualified and reported.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0511AB-GS (680-85785-29).

The matrix spike and matrix spike duplicate (MS/MSD) for 680-85785-29 in batch 640-98122 was diluted due to the abundance of target analytes. As such, surrogate and spike recoveries were diluted out.

A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: the internal standard (ISTD) level was raised from 2.0 ppm to 40 ppm.

The minimum relative response factor (RRF) criteria for the CCVIS analyzed in batches 640-98325 and 98315 was outside criteria for the following analytes: phenanthrene, benzo(a)anthracene. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analytes is considered estimated.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-85785-21	CV0703B-CS-SP	Solid	12/12/2012 1516	12/14/2012 1151
680-85785-22	CV0705A-CS-SP	Solid	12/12/2012 1435	12/14/2012 1151
680-85785-23	CV0705B-CS-SP	Solid	12/12/2012 1446	12/14/2012 1151
680-85785-24	CV0705C-GS	Solid	12/12/2012 1456	12/14/2012 1151
680-85785-25	HP0179A-CS-SP	Solid	12/12/2012 1342	12/14/2012 1151
680-85785-26	HP0179B-CS-SP	Solid	12/12/2012 1358	12/14/2012 1151
680-85785-27	HP0294A-CS-SP	Solid	12/12/2012 1312	12/14/2012 1151
680-85785-28	HP0294B-CS-SP	Solid	12/12/2012 1304	12/14/2012 1151
680-85785-29	CV0511AB-GS	Solid	12/12/2012 1124	12/14/2012 1151
680-85785-29MS	CV0511AB-GS	Solid	12/12/2012 1124	12/14/2012 1151
680-85785-29MSD	CV0511AB-GS	Solid	12/12/2012 1124	12/14/2012 1151
680-85785-30	CV0511A-CS	Solid	12/12/2012 1000	12/14/2012 1151
680-85785-31	CV0511A-CSD	Solid	12/12/2012 1000	12/14/2012 1151
680-85785-32	CV0511B-CS	Solid	12/12/2012 1005	12/14/2012 1151
680-85785-33	CV0511B-CSD	Solid	12/12/2012 1005	12/14/2012 1151
680-85785-34	CV0511C-CS	Solid	12/12/2012 1010	12/14/2012 1151
680-85785-35	CV0511C-CSD	Solid	12/12/2012 1010	12/14/2012 1151
680-85785-36	CV0511D-CS	Solid	12/12/2012 1020	12/14/2012 1151
680-85785-37	CV0511D-CSD	Solid	12/12/2012 1020	12/14/2012 1151
680-85785-38	CV0511E-CS	Solid	12/12/2012 1025	12/14/2012 1151
680-85785-39	CV0511F-CS	Solid	12/12/2012 1035	12/14/2012 1151
680-85785-40	CV0511G-CS	Solid	12/12/2012 1040	12/14/2012 1151
680-85785-41	CV0511H-CS	Solid	12/12/2012 1045	12/14/2012 1151

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GC/MS - Low Level	TAL TAL	SW846 8270D LL	
Ultrasonic Extraction	TAL TAL		SW846 3550C
Percent Moisture	TAL TAL	EPA Moisture	

Lab References:

TAL TAL = TestAmerica Tallahassee

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: 680-85785-2
Sdg Number: 68085785-2

Method	Analyst	Analyst ID
SW846 8270D LL	Frank, Michelle	MF
EPA Moisture	Cooper, Quentin	QC

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 640-98122					
LCS 640-98122/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 640-98122/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 640-98122/1-A	Method Blank	T	Solid	3550C	
680-85785-21	CV0703B-CS-SP	T	Solid	3550C	
680-85785-22	CV0705A-CS-SP	T	Solid	3550C	
680-85785-23	CV0705B-CS-SP	T	Solid	3550C	
680-85785-24	CV0705C-GS	T	Solid	3550C	
680-85785-25	HP0179A-CS-SP	T	Solid	3550C	
680-85785-26	HP0179B-CS-SP	T	Solid	3550C	
680-85785-27	HP0294A-CS-SP	T	Solid	3550C	
680-85785-28	HP0294B-CS-SP	T	Solid	3550C	
680-85785-29	CV0511AB-GS	T	Solid	3550C	
680-85785-29MS	Matrix Spike	T	Solid	3550C	
680-85785-29MSD	Matrix Spike Duplicate	T	Solid	3550C	
680-85785-30	CV0511A-CS	T	Solid	3550C	
680-85785-31	CV0511A-CSD	T	Solid	3550C	
680-85785-32	CV0511B-CS	T	Solid	3550C	
680-85785-33	CV0511B-CSD	T	Solid	3550C	
680-85785-34	CV0511C-CS	T	Solid	3550C	
680-85785-35	CV0511C-CSD	T	Solid	3550C	
680-85785-36	CV0511D-CS	T	Solid	3550C	
680-85785-37	CV0511D-CSD	T	Solid	3550C	
680-85785-38	CV0511E-CS	T	Solid	3550C	
680-85785-39	CV0511F-CS	T	Solid	3550C	
680-85785-40	CV0511G-CS	T	Solid	3550C	
Prep Batch: 640-98123					
LCS 640-98123/2-A	Lab Control Sample	T	Solid	3550C	
MB 640-98123/1-A	Method Blank	T	Solid	3550C	
680-85785-41	CV0511H-CS	T	Solid	3550C	

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:640-98286					
LCS 640-98122/2-A	Lab Control Sample	T	Solid	8270D LL	640-98122
LCSD 640-98122/3-A	Lab Control Sample Duplicate	T	Solid	8270D LL	640-98122
MB 640-98122/1-A	Method Blank	T	Solid	8270D LL	640-98122
680-85785-21	CV0703B-CS-SP	T	Solid	8270D LL	640-98122
680-85785-22	CV0705A-CS-SP	T	Solid	8270D LL	640-98122
680-85785-23	CV0705B-CS-SP	T	Solid	8270D LL	640-98122
680-85785-24	CV0705C-GS	T	Solid	8270D LL	640-98122
680-85785-25	HP0179A-CS-SP	T	Solid	8270D LL	640-98122
680-85785-26	HP0179B-CS-SP	T	Solid	8270D LL	640-98122
680-85785-27	HP0294A-CS-SP	T	Solid	8270D LL	640-98122
680-85785-28	HP0294B-CS-SP	T	Solid	8270D LL	640-98122
680-85785-29	CV0511AB-GS	T	Solid	8270D LL	640-98122
680-85785-29MS	Matrix Spike	T	Solid	8270D LL	640-98122
680-85785-29MSD	Matrix Spike Duplicate	T	Solid	8270D LL	640-98122
680-85785-34	CV0511C-CS	T	Solid	8270D LL	640-98122
680-85785-35	CV0511C-CSD	T	Solid	8270D LL	640-98122
Analysis Batch:640-98300					
680-85785-30	CV0511A-CS	T	Solid	8270D LL	640-98122
680-85785-31	CV0511A-CSD	T	Solid	8270D LL	640-98122
680-85785-32	CV0511B-CS	T	Solid	8270D LL	640-98122
680-85785-33	CV0511B-CSD	T	Solid	8270D LL	640-98122
680-85785-36	CV0511D-CS	T	Solid	8270D LL	640-98122
680-85785-37	CV0511D-CSD	T	Solid	8270D LL	640-98122
680-85785-38	CV0511E-CS	T	Solid	8270D LL	640-98122
680-85785-39	CV0511F-CS	T	Solid	8270D LL	640-98122
680-85785-40	CV0511G-CS	T	Solid	8270D LL	640-98122
Analysis Batch:640-98315					
680-85785-41	CV0511H-CS	T	Solid	8270D LL	640-98123
Analysis Batch:640-98325					
LCS 640-98123/2-A	Lab Control Sample	T	Solid	8270D LL	640-98123
MB 640-98123/1-A	Method Blank	T	Solid	8270D LL	640-98123

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
Sdg Number: 68085785-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:640-98183					
680-85785-21	CV0703B-CS-SP	T	Solid	Moisture	
680-85785-22	CV0705A-CS-SP	T	Solid	Moisture	
680-85785-23	CV0705B-CS-SP	T	Solid	Moisture	
680-85785-24	CV0705C-GS	T	Solid	Moisture	
680-85785-25	HP0179A-CS-SP	T	Solid	Moisture	
680-85785-26	HP0179B-CS-SP	T	Solid	Moisture	
680-85785-27	HP0294A-CS-SP	T	Solid	Moisture	
680-85785-28	HP0294B-CS-SP	T	Solid	Moisture	
680-85785-29	CV0511AB-GS	T	Solid	Moisture	
680-85785-29MS	Matrix Spike	T	Solid	Moisture	
680-85785-29MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-85785-30	CV0511A-CS	T	Solid	Moisture	
680-85785-31	CV0511A-CSD	T	Solid	Moisture	
680-85785-32	CV0511B-CS	T	Solid	Moisture	
680-85785-33	CV0511B-CSD	T	Solid	Moisture	
680-85785-34	CV0511C-CS	T	Solid	Moisture	
680-85785-35	CV0511C-CSD	T	Solid	Moisture	
680-85785-36	CV0511D-CS	T	Solid	Moisture	
680-85785-37	CV0511D-CSD	T	Solid	Moisture	
680-85785-38	CV0511E-CS	T	Solid	Moisture	
680-85785-39	CV0511F-CS	T	Solid	Moisture	
680-85785-40	CV0511G-CS	T	Solid	Moisture	
680-85785-41	CV0511H-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMA Analysis Batch Number: 98324

Lab Sample ID: IC 640-98324/2 Client Sample ID:

Date Analyzed: 12/26/12 14:08 Lab File ID: A2122607.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	8.71	Split Peak	vwelch	12/26/12 18:08

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98254

Lab Sample ID: IC 640-98254/2 Client Sample ID:

Date Analyzed: 12/23/12 11:54 Lab File ID: C2122302.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.52	Split Peak	mfrank	12/23/12 12:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98286

Lab Sample ID: 680-85785-21 Client Sample ID: CV0703B-CS-SP

Date Analyzed: 12/26/12 17:49 Lab File ID: C2122616.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:24
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:25

Lab Sample ID: 680-85785-29 Client Sample ID: CV0511AB-GS

Date Analyzed: 12/26/12 18:08 Lab File ID: C2122617.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	12.52	Unspecified	mfrank	12/27/12 12:26

Lab Sample ID: 680-85785-29 MS Client Sample ID: CV0511AB-GS MS

Date Analyzed: 12/26/12 18:27 Lab File ID: C2122618.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	12.51	Split Peak	mfrank	12/27/12 12:27

Lab Sample ID: 680-85785-22 Client Sample ID: CV0705A-CS-SP

Date Analyzed: 12/26/12 19:05 Lab File ID: C2122620.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:28

Lab Sample ID: 680-85785-23 Client Sample ID: CV0705B-CS-SP

Date Analyzed: 12/26/12 19:24 Lab File ID: C2122621.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:28
Dibenz(a,h)anthracene	12.53	Split Peak	mfrank	12/27/12 12:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98286

Lab Sample ID: 680-85785-24 Client Sample ID: CV0705C-GS

Date Analyzed: 12/26/12 19:43 Lab File ID: C2122622.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:29
Dibenz(a,h)anthracene	12.53	Split Peak	mfrank	12/27/12 12:29

Lab Sample ID: 680-85785-25 Client Sample ID: HP0179A-CS-SP

Date Analyzed: 12/26/12 20:02 Lab File ID: C2122623.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:30
Indeno[1,2,3-cd]pyrene	12.50	Split Peak	mfrank	12/27/12 12:30
Dibenz(a,h)anthracene	12.54	Split Peak	mfrank	12/27/12 12:30

Lab Sample ID: 680-85785-26 Client Sample ID: HP0179B-CS-SP

Date Analyzed: 12/26/12 20:21 Lab File ID: C2122624.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:31
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:31

Lab Sample ID: 680-85785-27 Client Sample ID: HP0294A-CS-SP

Date Analyzed: 12/26/12 20:40 Lab File ID: C2122625.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:31
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98286

Lab Sample ID: 680-85785-28 Client Sample ID: HP0294B-CS-SP

Date Analyzed: 12/26/12 20:59 Lab File ID: C2122626.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:32
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:32

Lab Sample ID: 680-85785-34 Client Sample ID: CV0511C-CS

Date Analyzed: 12/26/12 22:35 Lab File ID: C2122631.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:33
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:33

Lab Sample ID: 680-85785-35 Client Sample ID: CV0511C-CSD

Date Analyzed: 12/26/12 22:53 Lab File ID: C2122632.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.47	Split Peak	mfrank	12/27/12 12:33
Dibenz(a,h)anthracene	12.54	Baseline Event	mfrank	12/27/12 12:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98300

Lab Sample ID: 680-85785-30 Client Sample ID: CV0511A-CS

Date Analyzed: 12/27/12 09:03 Lab File ID: C2122707.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	12.48	Split Peak	mfrank	12/27/12 13:22

Lab Sample ID: 680-85785-32 Client Sample ID: CV0511B-CS

Date Analyzed: 12/27/12 09:41 Lab File ID: C2122709.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.46	Split Peak	mfrank	12/27/12 13:24
Dibenz(a,h)anthracene	12.49	Split Peak	mfrank	12/27/12 13:24

Lab Sample ID: 680-85785-36 Client Sample ID: CV0511D-CS

Date Analyzed: 12/27/12 10:19 Lab File ID: C2122711.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.46	Baseline Event	mfrank	12/27/12 13:26

Lab Sample ID: 680-85785-38 Client Sample ID: CV0511E-CS

Date Analyzed: 12/27/12 10:57 Lab File ID: C2122713.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.46	Split Peak	mfrank	12/27/12 13:27

Lab Sample ID: 680-85785-39 Client Sample ID: CV0511F-CS

Date Analyzed: 12/27/12 11:16 Lab File ID: C2122714.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.46	Split Peak	mfrank	12/27/12 13:29

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Analysis Batch Number: 98300

Lab Sample ID: 680-85785-40 Client Sample ID: CV0511G-CS

Date Analyzed: 12/27/12 13:48 Lab File ID: C2122722.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.46	Split Peak	mfrank	12/27/12 15:11

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low

GC Column (1): ZB-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH	#
CV0703B-CS-SP	680-85785-21	88	
CV0705A-CS-SP	680-85785-22	80	
CV0705B-CS-SP	680-85785-23	83	
CV0705C-GS	680-85785-24	77	
HP0179A-CS-SP	680-85785-25	87	
HP0179B-CS-SP	680-85785-26	77	
HP0294A-CS-SP	680-85785-27	72	
HP0294B-CS-SP	680-85785-28	64	
CV0511AB-GS	680-85785-29	0	X
CV0511A-CS	680-85785-30	0	X
CV0511A-CSD	680-85785-31	0	X
CV0511B-CS	680-85785-32	80	
CV0511B-CSD	680-85785-33	79	
CV0511C-CS	680-85785-34	86	
CV0511C-CSD	680-85785-35	85	
CV0511D-CS	680-85785-36	91	
CV0511D-CSD	680-85785-37	87	
CV0511E-CS	680-85785-38	83	
CV0511F-CS	680-85785-39	81	
CV0511G-CS	680-85785-40	93	
CV0511H-CS	680-85785-41	0	X
	MB 640-98122/1-A	91	
	MB 640-98123/1-A	88	
	LCS 640-98122/2-A	90	
	LCS 640-98123/2-A	82	
	LCSD 640-98122/3-A	91	
CV0511AB-GS MS	680-85785-29 MS	0	X
CV0511AB-GS MSD	680-85785-29 MSD	0	X

	QC LIMITS
OTPH = o-Terphenyl (Surr)	39-100

Column to be used to flag recovery values

FORM II 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low Lab File ID: C2122612.D

Lab ID: LCS 640-98122/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	132	103	78	42-107	
Acenaphthylene	132	99.2	75	41-108	
Anthracene	132	116	88	52-107	
Benzo[a]anthracene	132	107	81	64-115	
Benzo[a]pyrene	132	116	88	70-116	
Benzo[b]fluoranthene	132	105	80	60-117	
Benzo[g,h,i]perylene	132	72.7	55	40-137	
Benzo[k]fluoranthene	132	110	83	63-117	
Chrysene	132	111	84	63-114	
Dibenz(a,h)anthracene	132	97.8	74	48-130	
Fluoranthene	132	115	87	61-112	
Fluorene	132	103	78	45-106	
Indeno[1,2,3-cd]pyrene	132	98.3	74	44-128	
1-Methylnaphthalene	132	101	76	46-100	
2-Methylnaphthalene	132	106	81	46-104	
Naphthalene	132	97.5	74	44-100	
Phenanthrene	132	111	84	51-106	
Pyrene	132	105	80	61-115	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low Lab File ID: A2122620.D

Lab ID: LCS 640-98123/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	130	87.9	68	42-107	
Acenaphthylene	130	91.3	70	41-108	
Anthracene	130	102	78	52-107	
Benzo[a]anthracene	130	105	81	64-115	
Benzo[a]pyrene	130	143	110	70-116	
Benzo[b]fluoranthene	130	137	106	60-117	
Benzo[g,h,i]perylene	130	118	91	40-137	
Benzo[k]fluoranthene	130	132	102	63-117	
Chrysene	130	99.7	77	63-114	
Dibenz(a,h)anthracene	130	131	101	48-130	
Fluoranthene	130	110	84	61-112	
Fluorene	130	96.3	74	45-106	
Indeno[1,2,3-cd]pyrene	130	138	106	44-128	
1-Methylnaphthalene	130	87.3	67	46-100	
2-Methylnaphthalene	130	91.8	71	46-104	
Naphthalene	130	87.0	67	44-100	
Phenanthrene	130	99.0	76	51-106	
Pyrene	130	108	83	61-115	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low Lab File ID: C2122613.D

Lab ID: LCSD 640-98122/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	131	99.1	76	4	29	42-107	
Acenaphthylene	131	95.1	73	4	28	41-108	
Anthracene	131	110	84	5	23	52-107	
Benzo[a]anthracene	131	109	83	2	23	64-115	
Benzo[a]pyrene	131	117	90	1	23	70-116	
Benzo[b]fluoranthene	131	109	83	3	25	60-117	
Benzo[g,h,i]perylene	131	73.2	56	1	27	40-137	
Benzo[k]fluoranthene	131	112	85	1	25	63-117	
Chrysene	131	111	85	0	24	63-114	
Dibenz(a,h)anthracene	131	99.0	76	1	27	48-130	
Fluoranthene	131	114	88	1	25	61-112	
Fluorene	131	99.3	76	4	36	45-106	
Indeno[1,2,3-cd]pyrene	131	99.2	76	1	26	44-128	
1-Methylnaphthalene	131	95.7	73	5	33	46-100	
2-Methylnaphthalene	131	98.2	75	8	33	46-104	
Naphthalene	131	90.6	69	7	33	44-100	
Phenanthrene	131	110	84	1	27	51-106	
Pyrene	131	103	79	2	24	61-115	

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low Lab File ID: C2122618.D

Lab ID: 680-85785-29 MS Client ID: CV0511AB-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	239	87000	58400	-11972	30-100	4
Acenaphthylene	239	1400 J	1190 J	-91	26-102	4
Anthracene	239	140000	91600	-18397	33-100	4
Benzo[a]anthracene	239	240000	172000	-29598	24-120	4
Benzo[a]pyrene	239	240000	163000	-31235	19-138	4
Benzo[b]fluoranthene	239	300000	206000	-40334	26-124	4
Benzo[g,h,i]perylene	239	80000	58200	-8955	10-129	4
Benzo[k]fluoranthene	239	140000	95100	-17236	27-126	4
Chrysene	239	260000	195000	-28893	26-121	4
Dibenz(a,h)anthracene	239	31000	21800	-3656	10-123	4
Fluoranthene	239	660000	456000	-83759	21-122	4
Fluorene	239	63000	39500	-9818	35-100	4
Indeno[1,2,3-cd]pyrene	239	110000	78300	-12893	10-125	4
1-Methylnaphthalene	239	2800 J	1880 J	-396	31-100	4
2-Methylnaphthalene	239	5600 J	3040 J	-1074	31-100	4
Naphthalene	239	6200 J	2900 J	-1364	27-100	4
Phenanthrene	239	580000	378000	-84749	29-110	4
Pyrene	239	450000	319000	-54446	19-129	4

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Matrix: Solid Level: Low Lab File ID: C2122619.D

Lab ID: 680-85785-29 MSD Client ID: CV0511AB-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	240	64400	-9387	10	45	30-100	4
Acenaphthylene	240	1000 J	-167	17	45	26-102	4
Anthracene	240	115000	-8355	23	33	33-100	4
Benzo[a]anthracene	240	232000	-4395	30	39	24-120	4
Benzo[a]pyrene	240	217000	-8738	28	44	19-138	4
Benzo[b]fluoranthene	240	265000	-15512	25	34	26-124	4
Benzo[g,h,i]perylene	240	71600	-3341	21	40	10-129	4
Benzo[k]fluoranthene	240	127000	-3938	29	36	27-126	4
Chrysene	240	254000	-4262	26	33	26-121	4
Dibenz(a,h)anthracene	240	23900	-2777	9	40	10-123	4
Fluoranthene	240	591000	-27377	26	37	21-122	4
Fluorene	240	50200	-5295	24	38	35-100	4
Indeno[1,2,3-cd]pyrene	240	102000	-3170	26	40	10-125	4
1-Methylnaphthalene	240	2180 J	-270	15	41	31-100	4
2-Methylnaphthalene	240	2750 J	-1189	10	44	31-100	4
Naphthalene	240	2820 J	-1387	3	39	27-100	4
Phenanthrene	240	490000	-37615	26	36	29-110	4
Pyrene	240	418000	-12944	27	37	19-129	4

Column to be used to flag recovery and RPD values

FORM III 8270D LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: C2122611.D Lab Sample ID: MB 640-98122/1-A

Matrix: Solid Date Extracted: 12/17/2012 16:21

Instrument ID: SMC Date Analyzed: 12/26/2012 16:05

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 640-98122/2-A	C2122612.D	12/26/2012 16:24
	LCSD 640-98122/3-A	C2122613.D	12/26/2012 16:43
CV0703B-CS-SP	680-85785-21	C2122616.D	12/26/2012 17:49
CV0511AB-GS	680-85785-29	C2122617.D	12/26/2012 18:08
CV0511AB-GS MS	680-85785-29 MS	C2122618.D	12/26/2012 18:27
CV0511AB-GS MSD	680-85785-29 MSD	C2122619.D	12/26/2012 18:46
CV0705A-CS-SP	680-85785-22	C2122620.D	12/26/2012 19:05
CV0705B-CS-SP	680-85785-23	C2122621.D	12/26/2012 19:24
CV0705C-GS	680-85785-24	C2122622.D	12/26/2012 19:43
HP0179A-CS-SP	680-85785-25	C2122623.D	12/26/2012 20:02
HP0179B-CS-SP	680-85785-26	C2122624.D	12/26/2012 20:21
HP0294A-CS-SP	680-85785-27	C2122625.D	12/26/2012 20:40
HP0294B-CS-SP	680-85785-28	C2122626.D	12/26/2012 20:59
CV0511C-CS	680-85785-34	C2122631.D	12/26/2012 22:35
CV0511C-CSD	680-85785-35	C2122632.D	12/26/2012 22:53
CV0511A-CS	680-85785-30	C2122707.D	12/27/2012 09:03
CV0511A-CSD	680-85785-31	C2122708.D	12/27/2012 09:22
CV0511B-CS	680-85785-32	C2122709.D	12/27/2012 09:41
CV0511B-CSD	680-85785-33	C2122710.D	12/27/2012 10:00
CV0511D-CS	680-85785-36	C2122711.D	12/27/2012 10:19
CV0511D-CSD	680-85785-37	C2122712.D	12/27/2012 10:38
CV0511E-CS	680-85785-38	C2122713.D	12/27/2012 10:57
CV0511F-CS	680-85785-39	C2122714.D	12/27/2012 11:16
CV0511G-CS	680-85785-40	C2122722.D	12/27/2012 13:48

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: A2122619.D Lab Sample ID: MB 640-98123/1-A

Matrix: Solid Date Extracted: 12/17/2012 16:32

Instrument ID: SMA Date Analyzed: 12/26/2012 18:31

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 640-98123/2-A	A2122620.D	12/26/2012 18:50
CV0511H-CS	680-85785-41	A2122723.D	12/27/2012 17:28

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: A2122606.D DFTPP Injection Date: 12/26/2012

Instrument ID: SMA DFTPP Injection Time: 13:51

Analysis Batch No.: 98324

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	53.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	79.7	
70	Less than 2.0 % of mass 69	0.7	(0.9)1
127	10.0 - 80.0 % of mass 442	54.4	
197	Less than 2.0 % of mass 198	0.0	(0.0)1
198	Greater than 50.0 % of mass 442	98.2	
199	5.0 - 9.0 % of mass 198	6.9	(7.1)1
275	10.0 - 60.0 % of mass 442	28.1	
365	Greater than 1.0 % of mass 442	4.4	
441	Present but less than mass 443	15.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	18.8	

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 640-98324/2	A2122607.D	12/26/2012	14:08
	IC 640-98324/3	A2122608.D	12/26/2012	14:27
	IC 640-98324/4	A2122609.D	12/26/2012	14:46
	IC 640-98324/5	A2122610.D	12/26/2012	15:06
	ICIS 640-98324/6	A2122611.D	12/26/2012	15:25
	IC 640-98324/7	A2122612.D	12/26/2012	15:44
	IC 640-98324/8	A2122613.D	12/26/2012	16:03
	IC 640-98324/9	A2122614.D	12/26/2012	16:23
	IC 640-98324/10	A2122615.D	12/26/2012	16:42
	ICV 640-98324/11	A2122616.D	12/26/2012	17:01

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: A2122617.D DFTPP Injection Date: 12/26/2012

Instrument ID: SMA DFTPP Injection Time: 17:58

Analysis Batch No.: 98325

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	52.4	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	75.5	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 442	52.0	
197	Less than 2.0 % of mass 198	0.0	(0.0)1
198	Greater than 50.0 % of mass 442	108.7	
199	5.0 - 9.0 % of mass 198	7.8	(7.2)1
275	10.0 - 60.0 % of mass 442	31.4	
365	Greater than 1.0 % of mass 442	4.4	
441	Present but less than mass 443	16.5	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	18.9	

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 640-98325/2	A2122618.D	12/26/2012	18:11
	MB 640-98123/1-A	A2122619.D	12/26/2012	18:31
	LCS 640-98123/2-A	A2122620.D	12/26/2012	18:50

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: A2122703.D DFTPP Injection Date: 12/27/2012

Instrument ID: SMA DFTPP Injection Time: 08:17

Analysis Batch No.: 98315

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	54.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	73.9	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 442	52.3	
197	Less than 2.0 % of mass 198	0.0	(0.0)1
198	Greater than 50.0 % of mass 442	98.4	
199	5.0 - 9.0 % of mass 198	7.7	(7.8)1
275	10.0 - 60.0 % of mass 442	28.3	
365	Greater than 1.0 % of mass 442	4.1	
441	Present but less than mass 443	16.1	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.5	

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 640-98315/2	A2122704.D	12/27/2012	08:30
CV0511H-CS	680-85785-41	A2122723.D	12/27/2012	17:28

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: C2122301.D DFTPP Injection Date: 12/23/2012

Instrument ID: SMC DFTPP Injection Time: 11:41

Analysis Batch No.: 98254

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	54.1	
68	Less than 2.0 % of mass 69	0.3	(0.6)1
69	Mass 69 relative abundance	45.5	
70	Less than 2.0 % of mass 69	0.3	(0.6)1
127	10.0 - 80.0 % of mass 442	51.9	
197	Less than 2.0 % of mass 198	0.5	(0.4)1
198	Greater than 50.0 % of mass 442	112.3	
199	5.0 - 9.0 % of mass 198	7.5	(6.7)1
275	10.0 - 60.0 % of mass 442	28.0	
365	Greater than 1.0 % of mass 442	5.2	
441	Present but less than mass 443	14.8	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	19.6	

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 640-98254/2	C2122302.D	12/23/2012	11:54
	IC 640-98254/3	C2122303.D	12/23/2012	12:13
	IC 640-98254/4	C2122304.D	12/23/2012	12:32
	IC 640-98254/5	C2122305.D	12/23/2012	12:51
	ICIS 640-98254/6	C2122306.D	12/23/2012	13:09
	IC 640-98254/7	C2122307.D	12/23/2012	13:28
	IC 640-98254/8	C2122308.D	12/23/2012	13:47
	IC 640-98254/9	C2122309.D	12/23/2012	14:06
	IC 640-98254/10	C2122310.D	12/23/2012	14:25
	ICV 640-98254/11	C2122311.D	12/23/2012	14:44

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: C2122603.D DFTPP Injection Date: 12/26/2012

Instrument ID: SMC DFTPP Injection Time: 13:35

Analysis Batch No.: 98286

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	52.6	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.9	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 442	52.8	
197	Less than 2.0 % of mass 198	0.0	(0.0)1
198	Greater than 50.0 % of mass 442	111.2	
199	5.0 - 9.0 % of mass 198	7.2	(6.5)1
275	10.0 - 60.0 % of mass 442	30.4	
365	Greater than 1.0 % of mass 442	5.6	
441	Present but less than mass 443	15.6	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	20.0	

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 640-98286/2	C2122604.D	12/26/2012	13:52
	MB 640-98122/1-A	C2122611.D	12/26/2012	16:05
	LCS 640-98122/2-A	C2122612.D	12/26/2012	16:24
	LCSD 640-98122/3-A	C2122613.D	12/26/2012	16:43
CV0703B-CS-SP	680-85785-21	C2122616.D	12/26/2012	17:49
CV0511AB-GS	680-85785-29	C2122617.D	12/26/2012	18:08
CV0511AB-GS MS	680-85785-29 MS	C2122618.D	12/26/2012	18:27
CV0511AB-GS MSD	680-85785-29 MSD	C2122619.D	12/26/2012	18:46
CV0705A-CS-SP	680-85785-22	C2122620.D	12/26/2012	19:05
CV0705B-CS-SP	680-85785-23	C2122621.D	12/26/2012	19:24
CV0705C-GS	680-85785-24	C2122622.D	12/26/2012	19:43
HP0179A-CS-SP	680-85785-25	C2122623.D	12/26/2012	20:02
HP0179B-CS-SP	680-85785-26	C2122624.D	12/26/2012	20:21
HP0294A-CS-SP	680-85785-27	C2122625.D	12/26/2012	20:40
HP0294B-CS-SP	680-85785-28	C2122626.D	12/26/2012	20:59
CV0511C-CS	680-85785-34	C2122631.D	12/26/2012	22:35
CV0511C-CSD	680-85785-35	C2122632.D	12/26/2012	22:53

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab File ID: C2122704.D DFTPP Injection Date: 12/27/2012

Instrument ID: SMC DFTPP Injection Time: 08:12

Analysis Batch No.: 98300

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	50.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	44.0	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 442	51.6	
197	Less than 2.0 % of mass 198	0.6	(0.6)1
198	Greater than 50.0 % of mass 442	114.2	
199	5.0 - 9.0 % of mass 198	7.3	(6.4)1
275	10.0 - 60.0 % of mass 442	30.3	
365	Greater than 1.0 % of mass 442	4.9	
441	Present but less than mass 443	15.5	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	20.0	

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 640-98300/2	C2122705.D	12/27/2012	08:25
CV0511A-CS	680-85785-30	C2122707.D	12/27/2012	09:03
CV0511A-CSD	680-85785-31	C2122708.D	12/27/2012	09:22
CV0511B-CS	680-85785-32	C2122709.D	12/27/2012	09:41
CV0511B-CSD	680-85785-33	C2122710.D	12/27/2012	10:00
CV0511D-CS	680-85785-36	C2122711.D	12/27/2012	10:19
CV0511D-CSD	680-85785-37	C2122712.D	12/27/2012	10:38
CV0511E-CS	680-85785-38	C2122713.D	12/27/2012	10:57
CV0511F-CS	680-85785-39	C2122714.D	12/27/2012	11:16
CV0511G-CS	680-85785-40	C2122722.D	12/27/2012	13:48

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: ICIS 640-98324/6 Date Analyzed: 12/26/2012 15:25

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122611.D Heated Purge: (Y/N) N

Calibration ID: 1882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1497914	3.71	781248	4.67	1209120	5.63
UPPER LIMIT		2995828	4.21	1562496	5.17	2418240	6.13
LOWER LIMIT		748957	3.21	390624	4.17	604560	5.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 640-98324/11		1486197	3.71	774780	4.66	1211421	5.64

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: ICIS 640-98324/6 Date Analyzed: 12/26/2012 15:25

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122611.D Heated Purge: (Y/N) N

Calibration ID: 1882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1418175	8.74	1620316	11.25		
UPPER LIMIT		2836350	9.24	3240632	11.75		
LOWER LIMIT		709088	8.24	810158	10.75		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 640-98324/11		1414430	8.74	1602667	11.25		

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98325/2 Date Analyzed: 12/26/2012 18:11

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122618.D Heated Purge: (Y/N) N

Calibration ID: 1882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1468146	3.71	757655	4.66	1180956	5.64
UPPER LIMIT		2936292	4.21	1515310	5.16	2361912	6.14
LOWER LIMIT		734073	3.21	378828	4.16	590478	5.14
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 640-98123/1-A		1465432	3.70	783671	4.66	1191100	5.63
LCS 640-98123/2-A		1536550	3.70	813623	4.66	1242591	5.63

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98325/2 Date Analyzed: 12/26/2012 18:11

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122618.D Heated Purge: (Y/N) N

Calibration ID: 1882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1376177	8.75	1572595	11.25		
UPPER LIMIT		2752354	9.25	3145190	11.75		
LOWER LIMIT		688089	8.25	786298	10.75		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 640-98123/1-A		1426644	8.74	1266535	11.24		
LCS 640-98123/2-A		1482712	8.74	1332904	11.24		

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98315/2 Date Analyzed: 12/27/2012 08:30

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122704.D Heated Purge: (Y/N) N

Calibration ID: 1882

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1468210	3.71	747530	4.66	1181960	5.63
UPPER LIMIT		2936420	4.21	1495060	5.16	2363920	6.13
LOWER LIMIT		734105	3.21	373765	4.16	590980	5.13
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-85785-41	CV0511H-CS	1382092	3.71	696257	4.67	1101839	5.64

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98315/2 Date Analyzed: 12/27/2012 08:30

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): A2122704.D Heated Purge: (Y/N) N

Calibration ID: 1882

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1370347	8.74	1605849	11.24		
UPPER LIMIT		2740694	9.24	3211698	11.74		
LOWER LIMIT		685174	8.24	802925	10.74		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-85785-41	CV0511H-CS	1337566	8.75	1017032	11.25		

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: ICIS 640-98254/6 Date Analyzed: 12/23/2012 13:09

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122306.D Heated Purge: (Y/N) N

Calibration ID: 1879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5783313	3.54	3113114	4.50	5214418	5.43
UPPER LIMIT		11566626	4.04	6226228	5.00	10428836	5.93
LOWER LIMIT		2891657	3.04	1556557	4.00	2607209	4.93
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 640-98254/11		5784657	3.54	3098160	4.50	5158985	5.43

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: ICIS 640-98254/6 Date Analyzed: 12/23/2012 13:09

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122306.D Heated Purge: (Y/N) N

Calibration ID: 1879

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5209469	8.41	5792817	10.86		
UPPER LIMIT		10418938	8.91	11585634	11.36		
LOWER LIMIT		2604735	7.91	2896409	10.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 640-98254/11		5146557	8.41	5671964	10.86		

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98286/2 Date Analyzed: 12/26/2012 13:52

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122604.D Heated Purge: (Y/N) N

Calibration ID: 1879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		7331200	3.51	4026839	4.46	6710390	5.39
UPPER LIMIT		14662400	4.01	8053678	4.96	13420780	5.89
LOWER LIMIT		3665600	3.01	2013420	3.96	3355195	4.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 640-98122/1-A		7684662	3.50	4308436	4.46	6799617	5.38
LCS 640-98122/2-A		7113083	3.49	3993058	4.46	6488799	5.38
LCSD 640-98122/3-A		7360413	3.50	4157867	4.46	6750927	5.38
680-85785-21	CV0703B-CS-SP	6903782	3.49	3887890	4.46	6272142	5.38
680-85785-29	CV0511AB-GS	6900804	3.51	3858751	4.46	6189454	5.38
680-85785-29 MS	CV0511AB-GS MS	6729127	3.51	3788784	4.46	6131276	5.38
680-85785-29 MSD	CV0511AB-GS MSD	6732308	3.51	3825802	4.46	6252613	5.38
680-85785-22	CV0705A-CS-SP	7306067	3.50	4072105	4.46	6607091	5.38
680-85785-23	CV0705B-CS-SP	7173648	3.50	4024064	4.46	6523877	5.38
680-85785-24	CV0705C-GS	6651513	3.50	3710874	4.46	5952579	5.38
680-85785-25	HP0179A-CS-SP	6939384	3.50	3952344	4.46	6458798	5.38
680-85785-26	HP0179B-CS-SP	6777289	3.50	3726685	4.46	6031103	5.38
680-85785-27	HP0294A-CS-SP	7753923	3.50	4327243	4.46	6995122	5.38
680-85785-28	HP0294B-CS-SP	6797078	3.50	3747162	4.46	6066082	5.38
680-85785-34	CV0511C-CS	6544019	3.50	3632072	4.46	5879436	5.38
680-85785-35	CV0511C-CSD	6414678	3.50	3565318	4.46	5924976	5.38

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98286/2 Date Analyzed: 12/26/2012 13:52

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122604.D Heated Purge: (Y/N) N

Calibration ID: 1879

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		6775149	8.34	7556302	10.78		
UPPER LIMIT		13550298	8.84	15112604	11.28		
LOWER LIMIT		3387575	7.84	3778151	10.28		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 640-98122/1-A		7388215	8.33	8671408	10.78		
LCS 640-98122/2-A		7146706	8.33	8454711	10.78		
LCSD 640-98122/3-A		7512197	8.33	8810630	10.78		
680-85785-21	CV0703B-CS-SP	7089829	8.34	7817416	10.79		
680-85785-29	CV0511AB-GS	7035294	8.33	7908494	10.78		
680-85785-29 MS	CV0511AB-GS MS	6868125	8.33	7792118	10.77		
680-85785-29 MSD	CV0511AB-GS MSD	7027852	8.33	7947783	10.77		
680-85785-22	CV0705A-CS-SP	8147709	8.33	8319710	10.79		
680-85785-23	CV0705B-CS-SP	7733574	8.34	7931396	10.78		
680-85785-24	CV0705C-GS	7478202	8.34	6884815	10.78		
680-85785-25	HP0179A-CS-SP	7872098	8.34	7273923	10.78		
680-85785-26	HP0179B-CS-SP	7070208	8.34	6683957	10.78		
680-85785-27	HP0294A-CS-SP	8532449	8.34	7430837	10.79		
680-85785-28	HP0294B-CS-SP	7257781	8.34	5970121	10.78		
680-85785-34	CV0511C-CS	6865209	8.34	5036918	10.78		
680-85785-35	CV0511C-CSD	7036903	8.34	4628445	10.78		

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98300/2 Date Analyzed: 12/27/2012 08:25

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122705.D Heated Purge: (Y/N) N

Calibration ID: 1879

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5775980	3.49	3258287	4.44	5542290	5.36
UPPER LIMIT		11551960	3.99	6516574	4.94	11084580	5.86
LOWER LIMIT		2887990	2.99	1629144	3.94	2771145	4.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-85785-30	CV0511A-CS	5754857	3.48	3313257	4.44	5369069	5.36
680-85785-31	CV0511A-CSD	5902142	3.48	3372261	4.44	5506761	5.36
680-85785-32	CV0511B-CS	6366212	3.48	3564634	4.44	5786693	5.36
680-85785-33	CV0511B-CSD	5763941	3.48	3219681	4.44	5268148	5.36
680-85785-36	CV0511D-CS	5735406	3.48	3250827	4.44	5298404	5.36
680-85785-37	CV0511D-CSD	5638172	3.48	3138422	4.44	5129735	5.36
680-85785-38	CV0511E-CS	6444933	3.48	3651982	4.44	5951410	5.36
680-85785-39	CV0511F-CS	6147679	3.48	3506626	4.44	5696681	5.36
680-85785-40	CV0511G-CS	5531803	3.48	3169396	4.44	5211871	5.36

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 8270D LL

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Sample No.: CCVIS 640-98300/2 Date Analyzed: 12/27/2012 08:25

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm)

Lab File ID (Standard): C2122705.D Heated Purge: (Y/N) N

Calibration ID: 1879

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		5646297	8.30	6297485	10.73		
UPPER LIMIT		11292594	8.80	12594970	11.23		
LOWER LIMIT		2823149	7.80	3148743	10.23		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-85785-30	CV0511A-CS	5475563	8.29	6163390	10.73		
680-85785-31	CV0511A-CSD	5686415	8.29	6329770	10.73		
680-85785-32	CV0511B-CS	6187448	8.29	7416480	10.74		
680-85785-33	CV0511B-CSD	5585446	8.29	6605735	10.73		
680-85785-36	CV0511D-CS	5672302	8.29	6708528	10.73		
680-85785-37	CV0511D-CSD	5419121	8.29	6619391	10.73		
680-85785-38	CV0511E-CS	6549869	8.30	7937095	10.74		
680-85785-39	CV0511F-CS	6448109	8.30	7595843	10.74		
680-85785-40	CV0511G-CS	6126779	8.30	6448103	10.73		

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 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0703B-CS-SP | Lab Sample ID: 680-85785-21

Matrix: Solid | Lab File ID: C2122616.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 15:16

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.25(g) | Date Analyzed: 12/26/2012 17:49

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.9	J	8.2	0.71
208-96-8	Acenaphthylene	10		8.2	0.64
120-12-7	Anthracene	17		8.2	0.80
56-55-3	Benzo[a]anthracene	68		8.2	0.75
50-32-8	Benzo[a]pyrene	86		8.2	0.83
205-99-2	Benzo[b]fluoranthene	150		8.2	1.1
191-24-2	Benzo[g,h,i]perylene	47		8.2	1.3
207-08-9	Benzo[k]fluoranthene	51		8.2	0.78
218-01-9	Chrysene	120		8.2	0.91
53-70-3	Dibenz(a,h)anthracene	18		8.2	0.79
206-44-0	Fluoranthene	120		8.2	0.73
86-73-7	Fluorene	5.2	J	8.2	0.63
193-39-5	Indeno[1,2,3-cd]pyrene	54		8.2	1.3
90-12-0	1-Methylnaphthalene	23		8.2	0.64
91-57-6	2-Methylnaphthalene	30		8.2	0.63
91-20-3	Naphthalene	29		8.2	0.63
85-01-8	Phenanthrene	86		8.2	0.54
129-00-0	Pyrene	94		8.2	0.63

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	88		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122616.D
Lab Smp Id: 680-85785-A-21-A Client Smp ID: CV0703B-CS-SP
Inj Date : 26-DEC-2012 17:49
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-21-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.250	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.942)	172429	2.32114	77	
* 1 Naphthalene-d8	136	3.494	3.505	(1.000)	6903782	40.0000		
2 Naphthalene	128	3.510	3.515	(1.004)	122630	0.72685	24	
3 2-Methylnaphthalene	142	3.878	3.883	(1.110)	93422	0.72964	24	
4 1-Methylnaphthalene	142	3.930	3.935	(1.125)	70710	0.56301	19	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3887890	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	51950	0.24867	8.2	
7 Acenaphthene	154	4.474	4.479	(1.003)	7828	0.07162	2.4(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	18706	0.12820	4.2(a)	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6272142	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	373372	2.11641	70	
11 Anthracene	178	5.427	5.438	(1.009)	82443	0.42645	14	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	402772	3.52206	120	
13 Fluoranthene	202	6.422	6.433	(1.194)	709879	3.03463	100	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7089829	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	612454	2.30578	76	
16 Benzo(a)anthracene	228	8.304	8.309	(0.996)	415152	1.67908	56	
17 Chrysene	228	8.361	8.371	(1.003)	619915	2.94492	97	
* 18 Perylene-d12	264	10.786	10.781	(1.000)	7817416	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.937)	891202	3.57865	120	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.940)	305543	1.25518	41	
21 Benzo(a)pyrene	252	10.651	10.656	(0.988)	469678	2.11111	70	
22 Indeno(1,2,3-cd)pyrene	276	12.506	12.512	(1.160)	315440	1.33609	44	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.162)	103741	0.44341	15(M)	BAS
24 Benzo(g,h,i)perylene	276	12.921	12.921	(1.198)	269622	1.14804	38	

QC Flag Legend

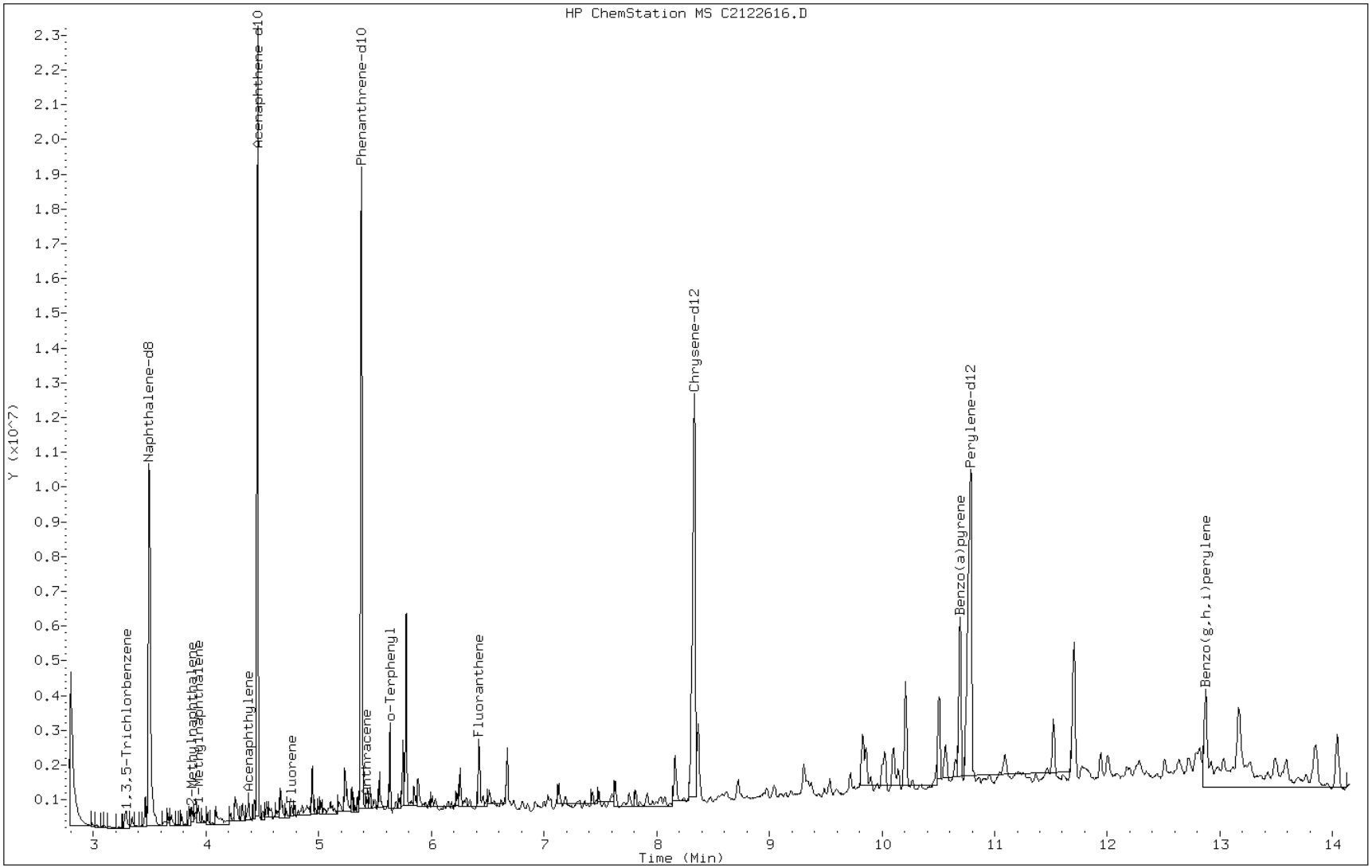
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW



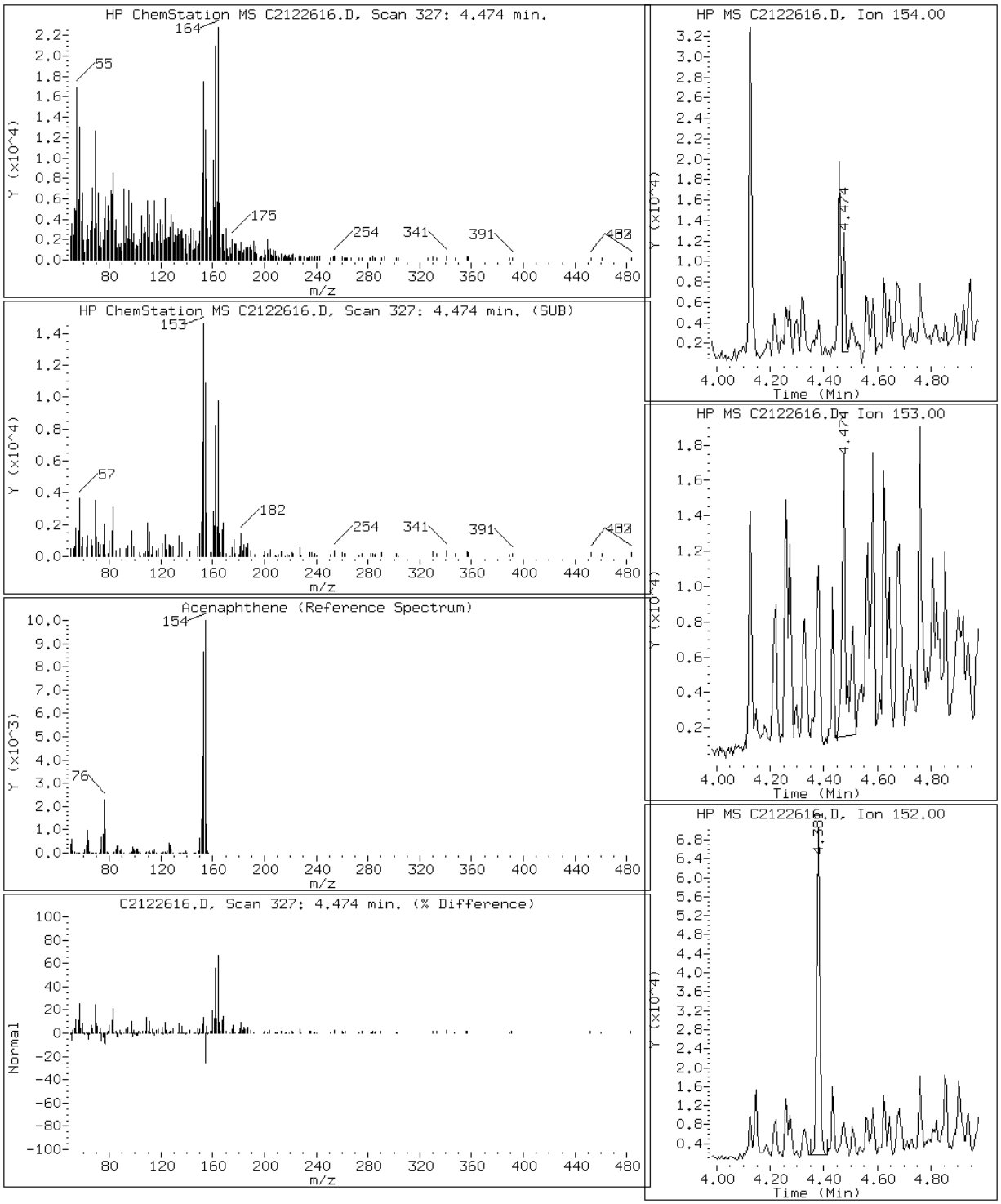
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



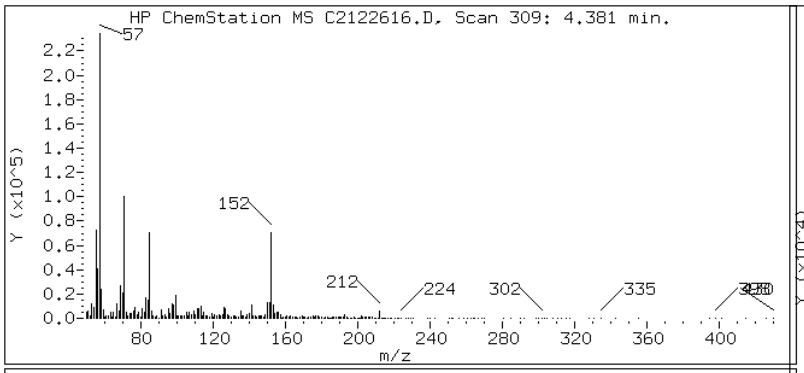
Data File: C2122616.D

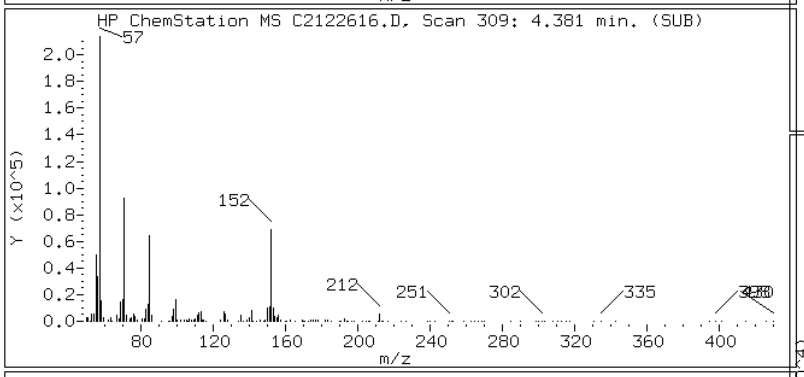
Date: 26-DEC-2012 17:49

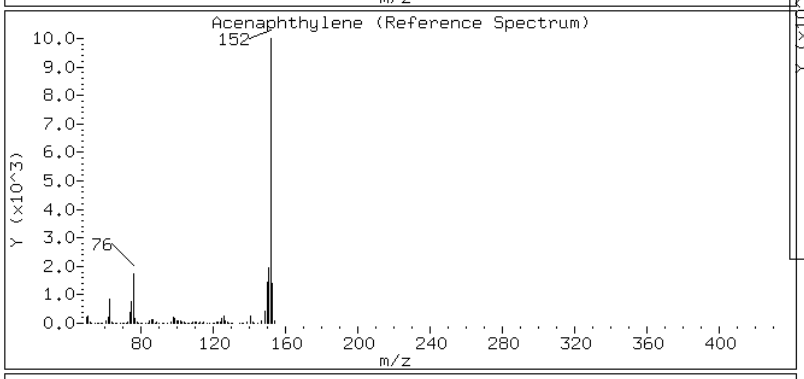
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

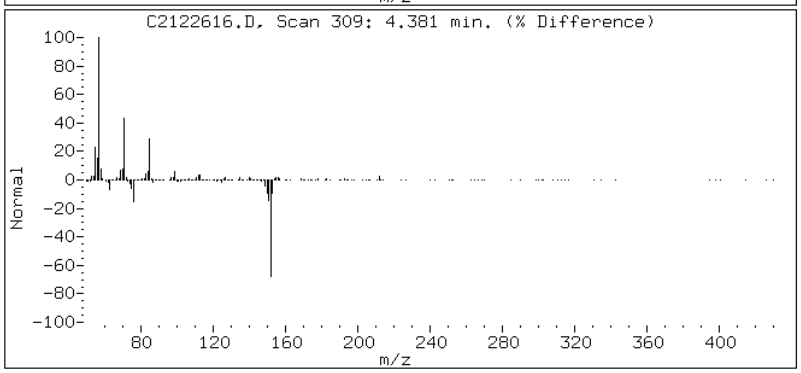
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

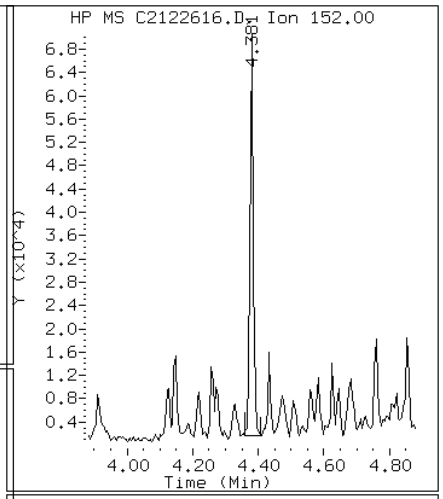
6 Acenaphthylene

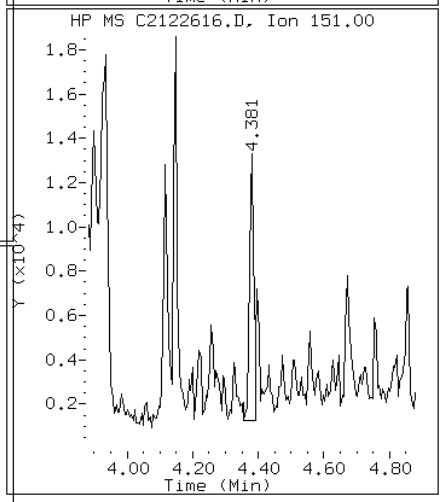












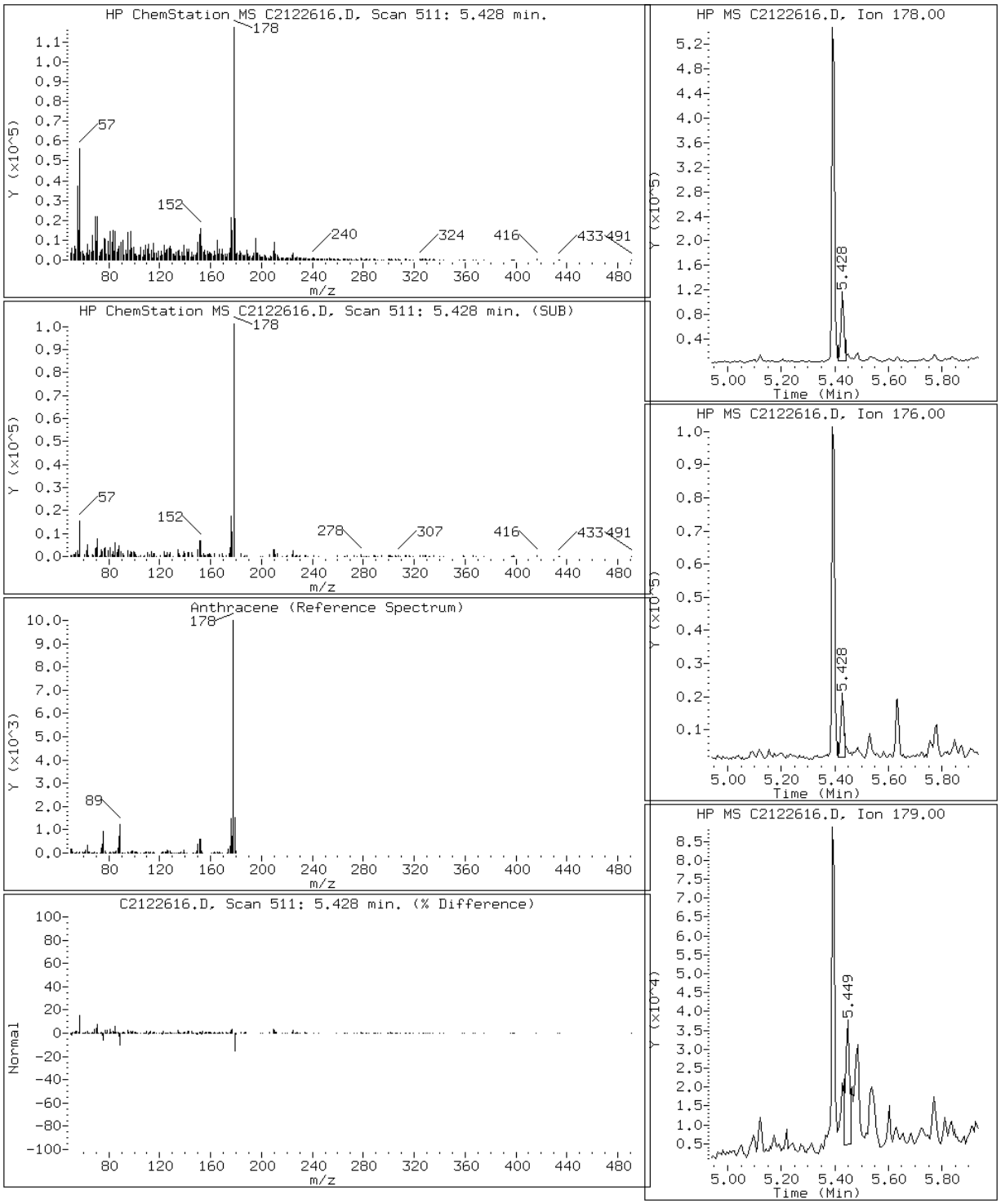
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

11 Anthracene



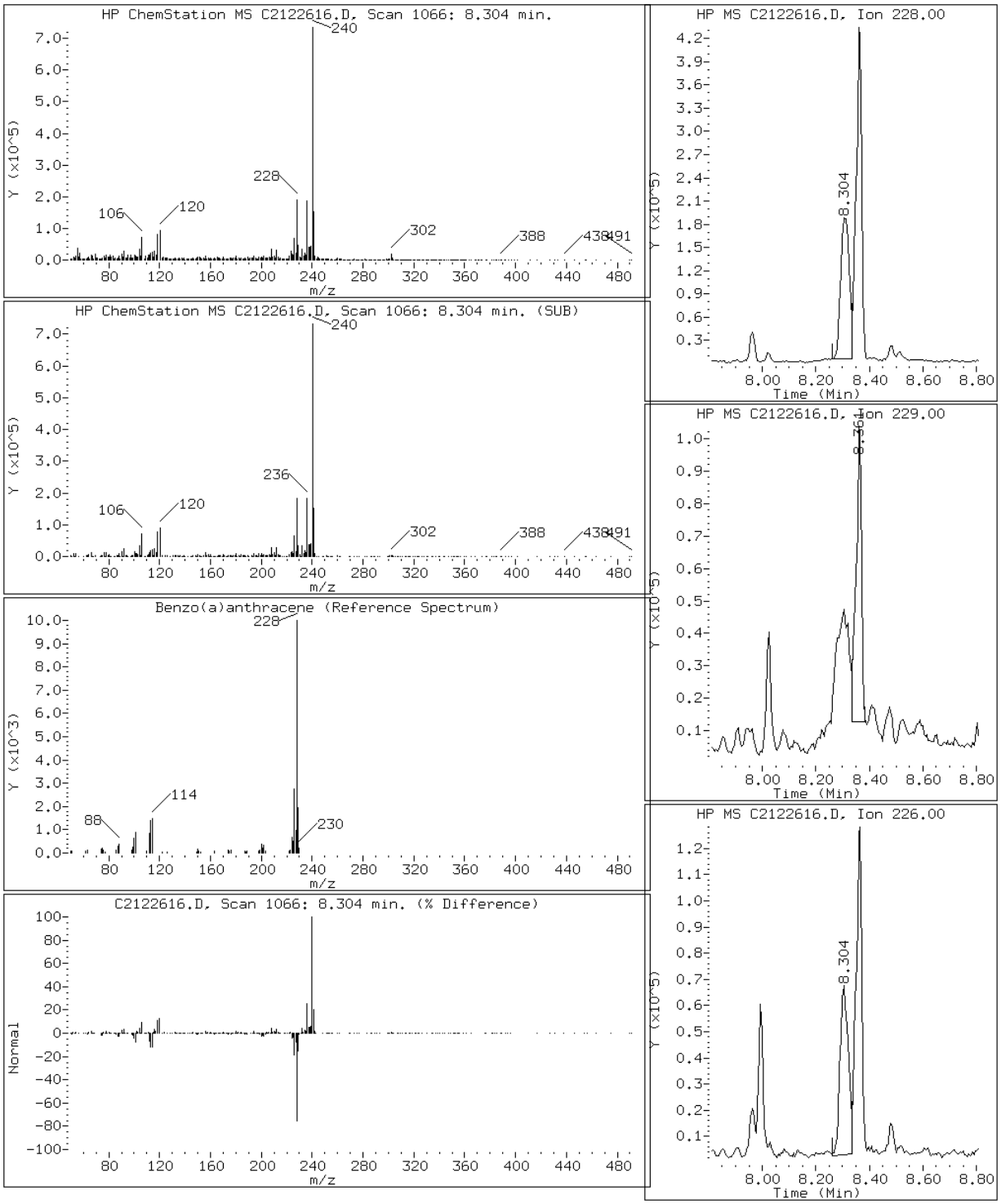
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



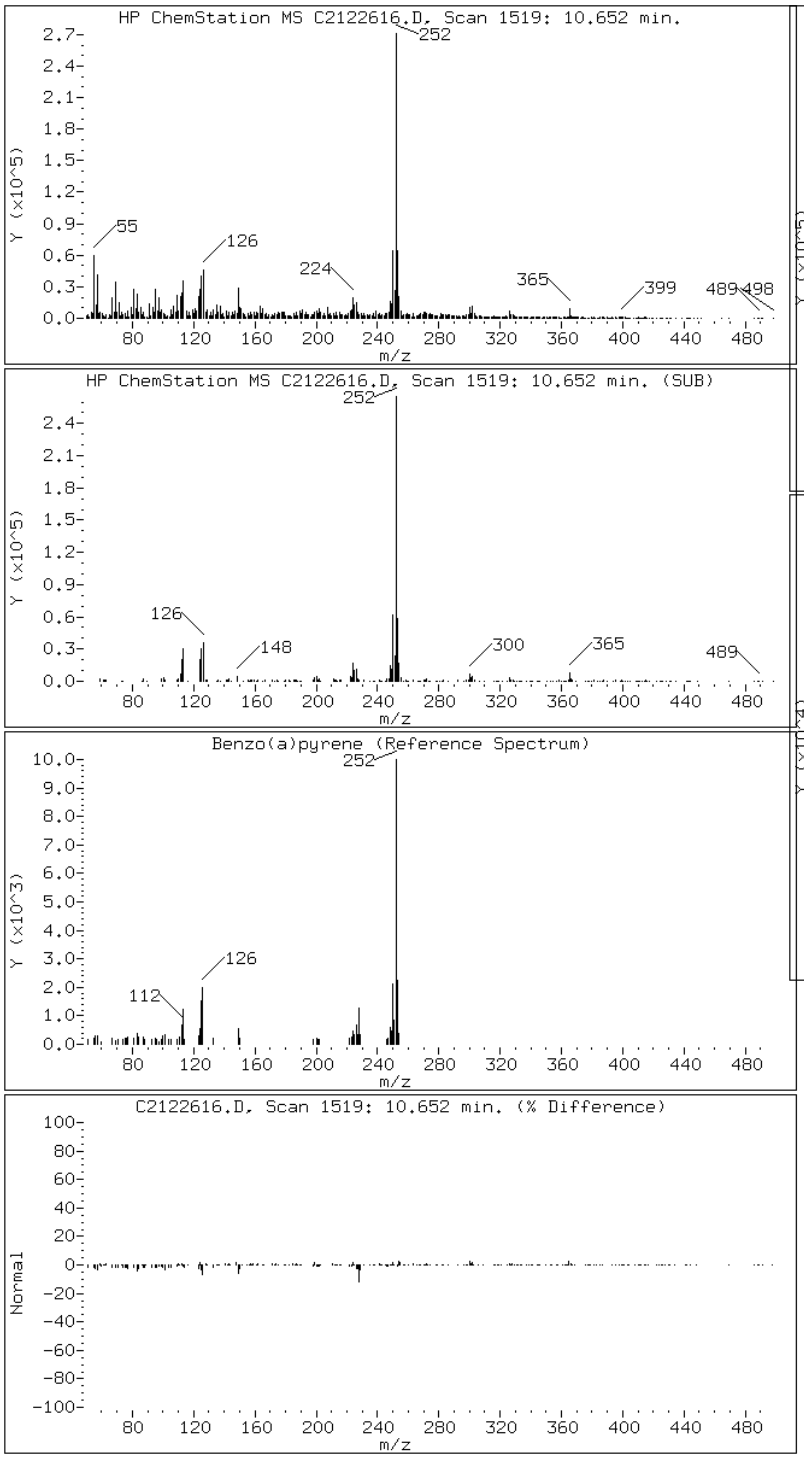
Data File: C2122616.D

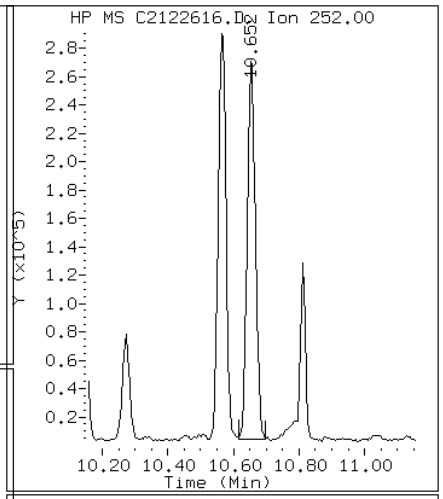
Date: 26-DEC-2012 17:49

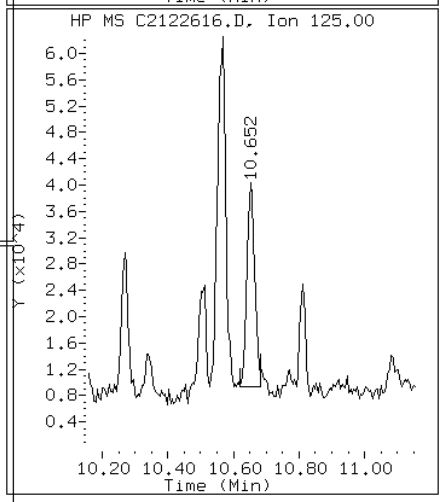
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

21 Benzo(a)pyrene







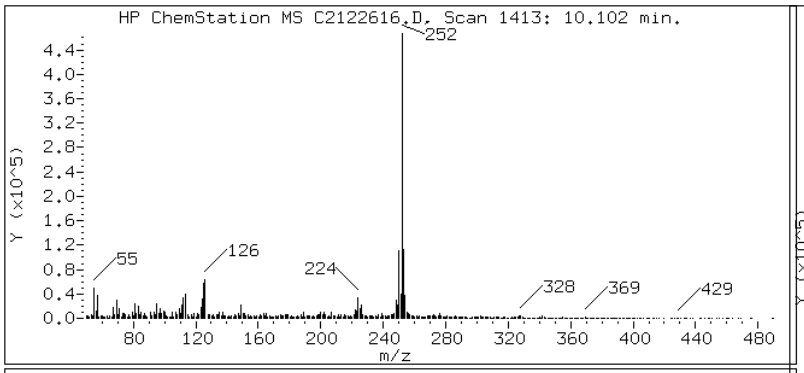
Data File: C2122616.D

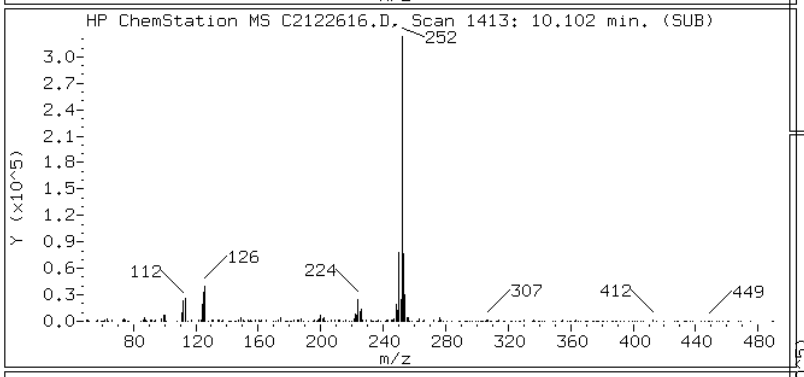
Date: 26-DEC-2012 17:49

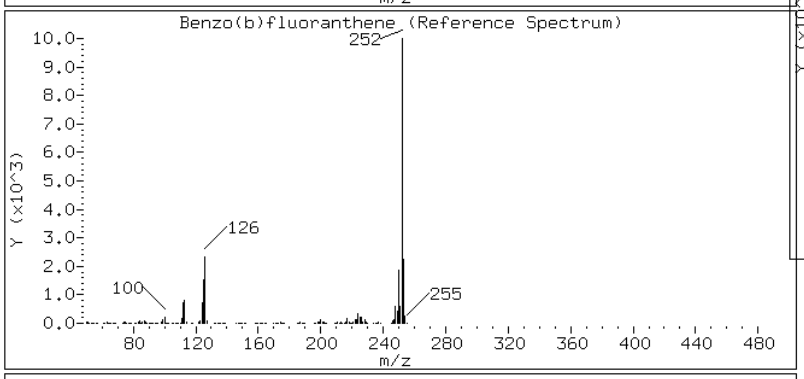
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

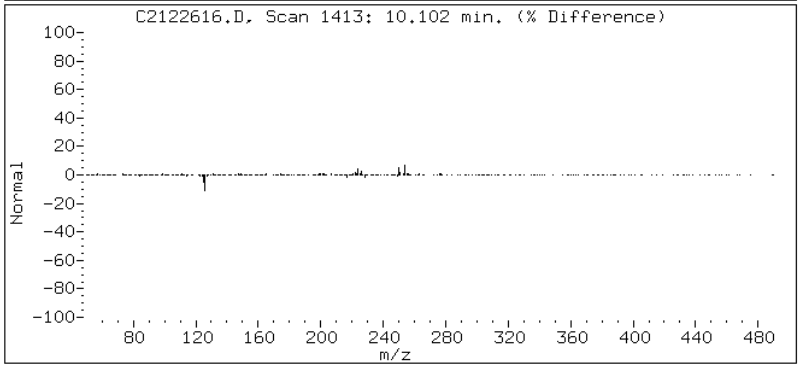
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

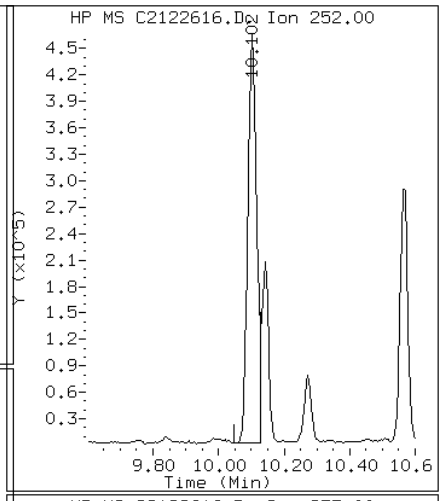
19 Benzo(b)fluoranthene

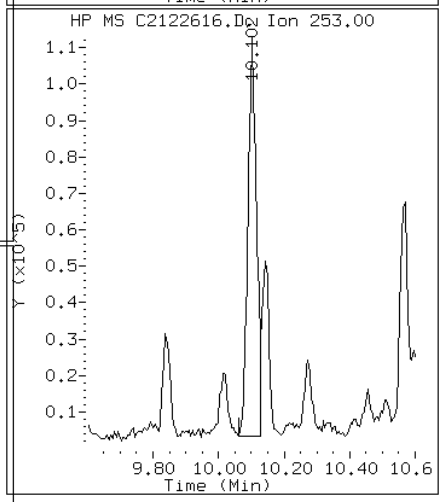












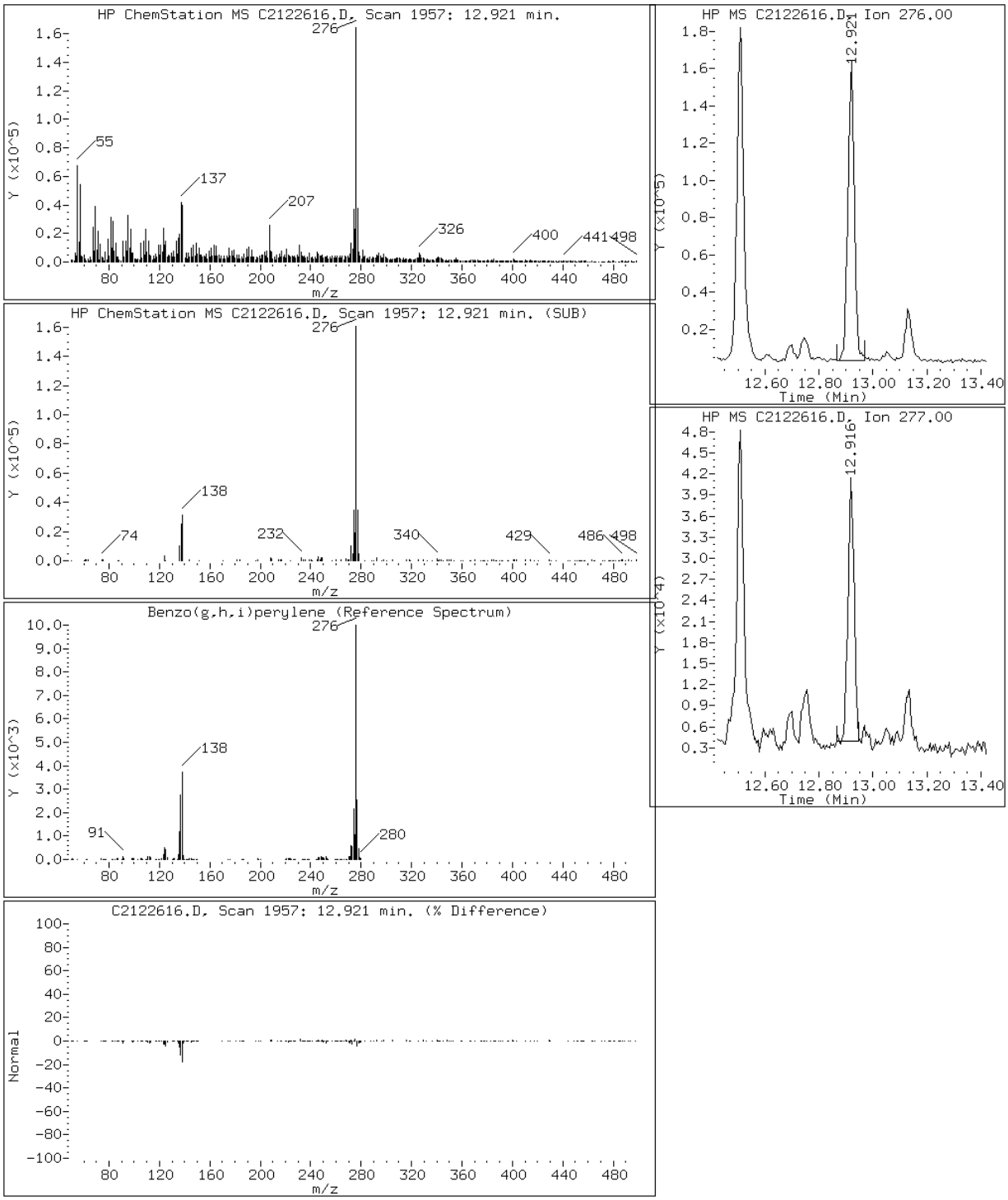
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



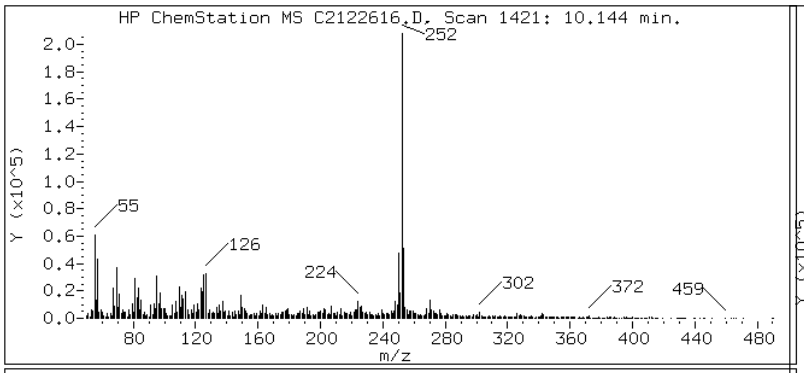
Data File: C2122616.D

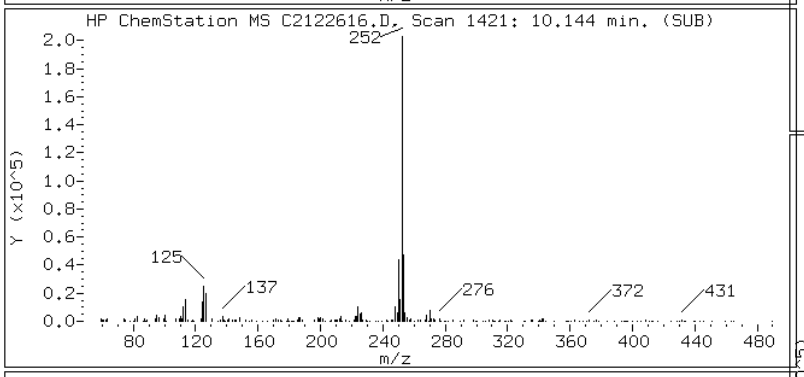
Date: 26-DEC-2012 17:49

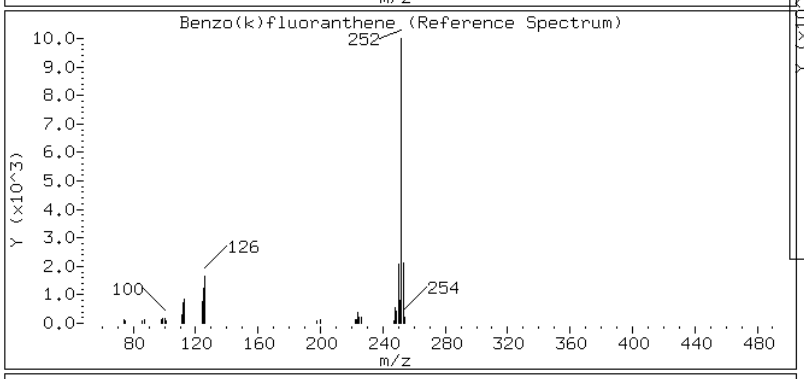
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

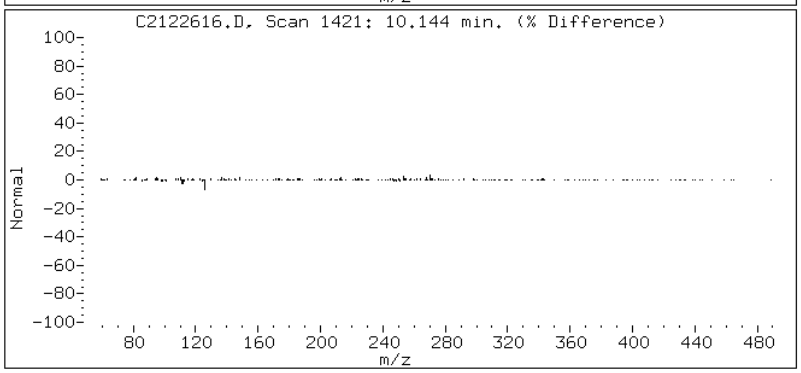
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

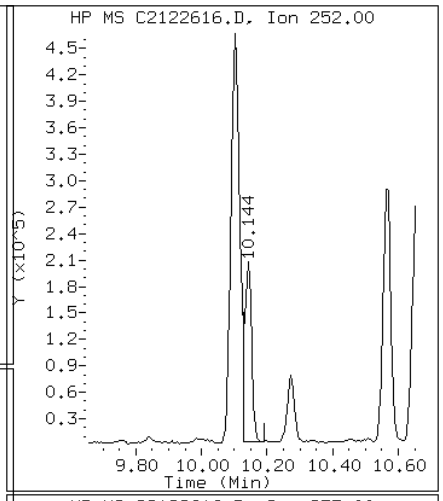
20 Benzo(k)fluoranthene

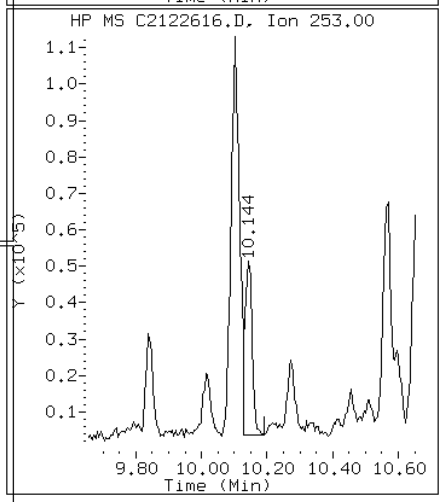












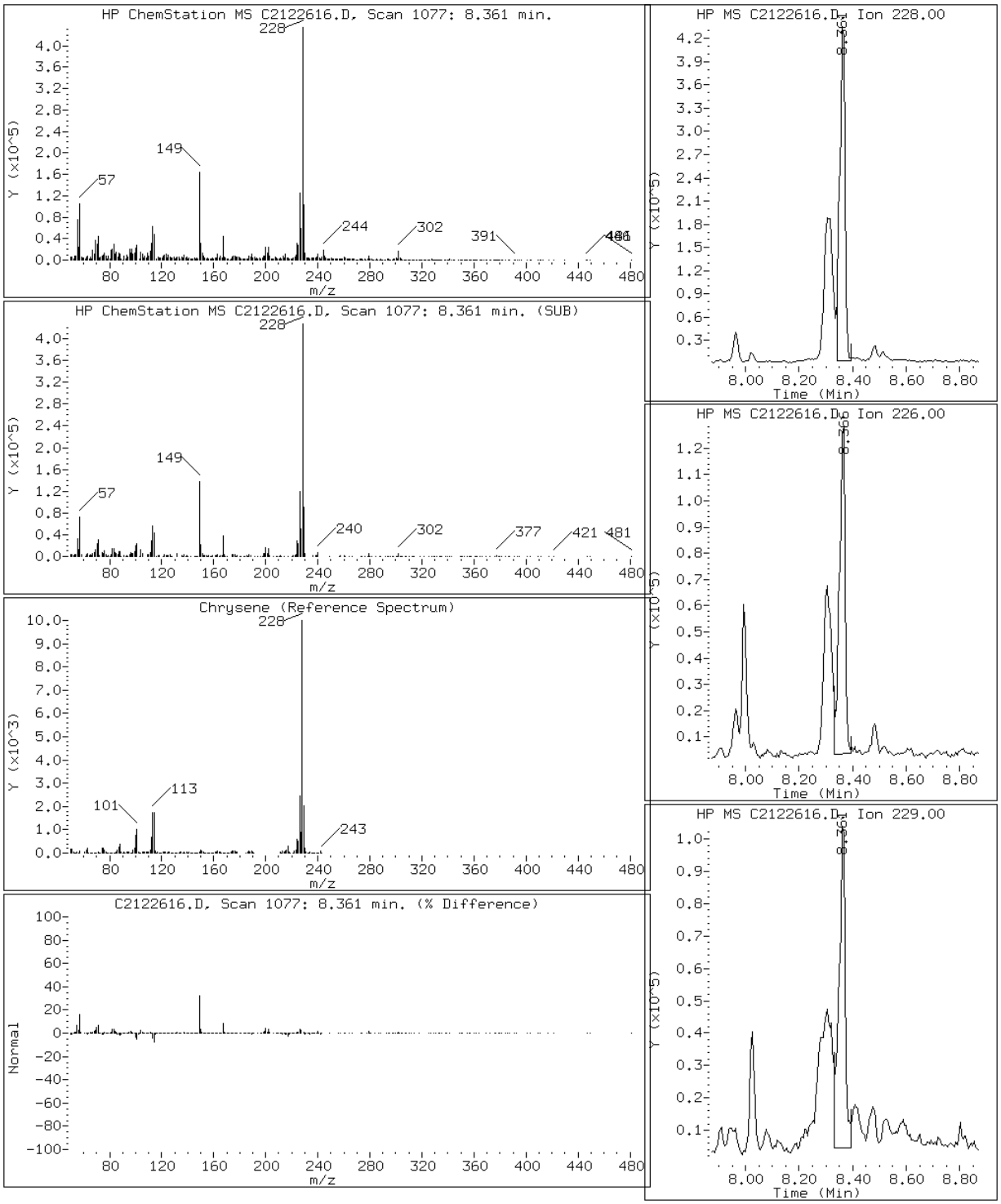
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

17 Chrysene



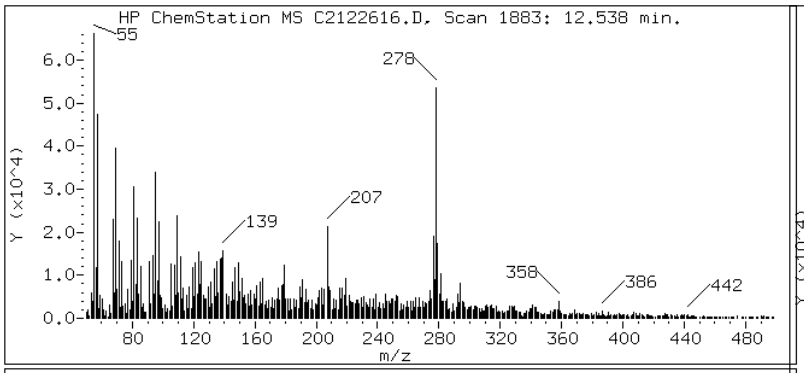
Data File: C2122616.D

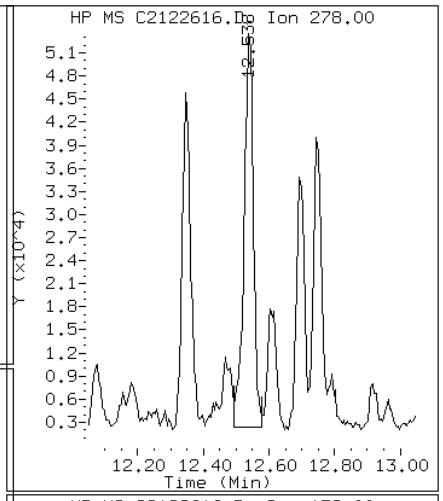
Date: 26-DEC-2012 17:49

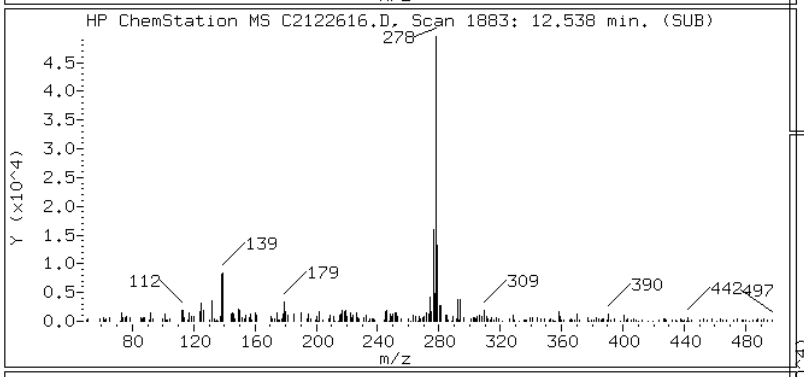
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

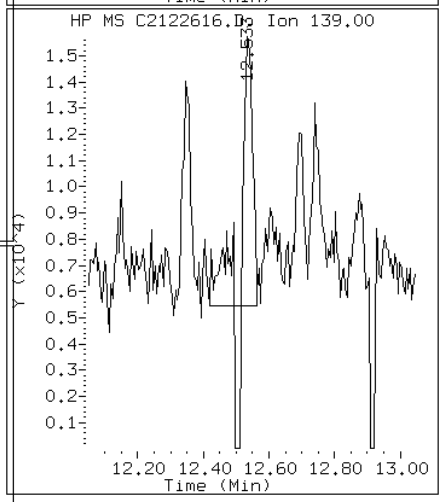
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

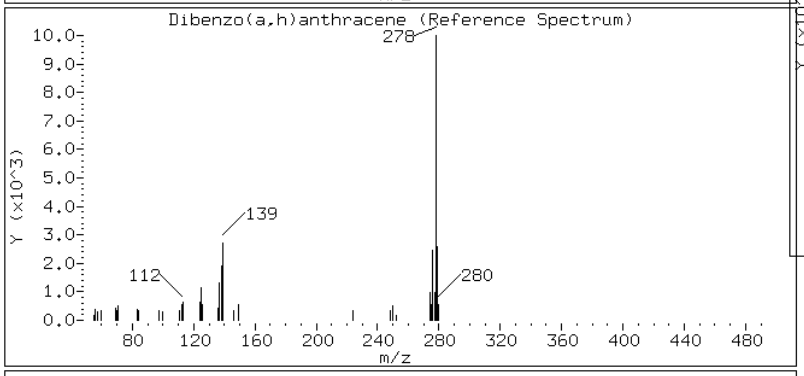
23 Dibenzo(a,h)anthracene

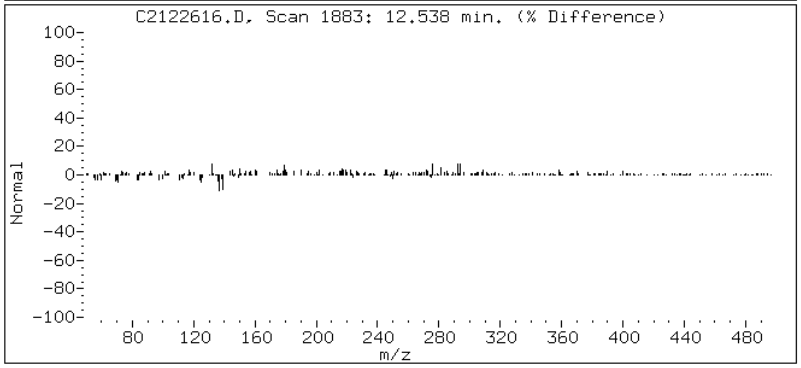












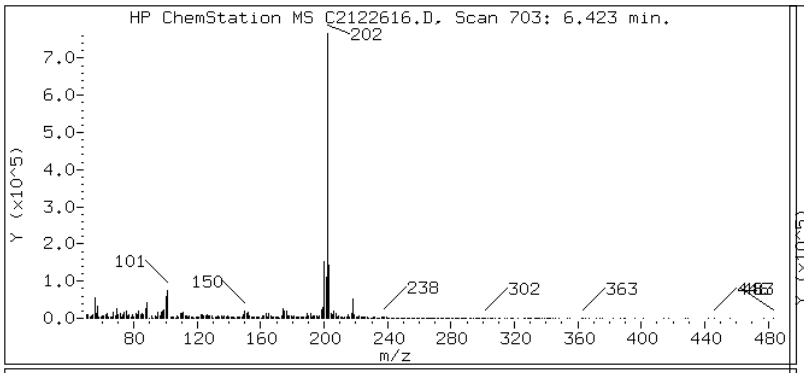
Data File: C2122616.D

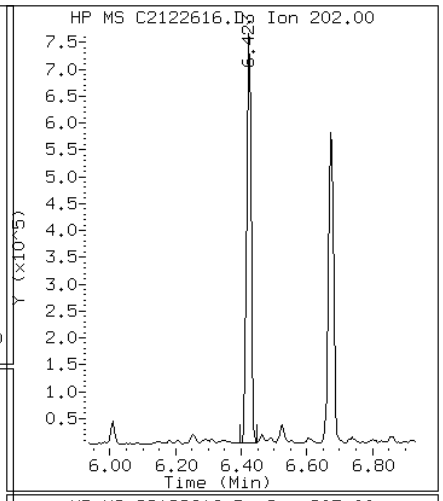
Date: 26-DEC-2012 17:49

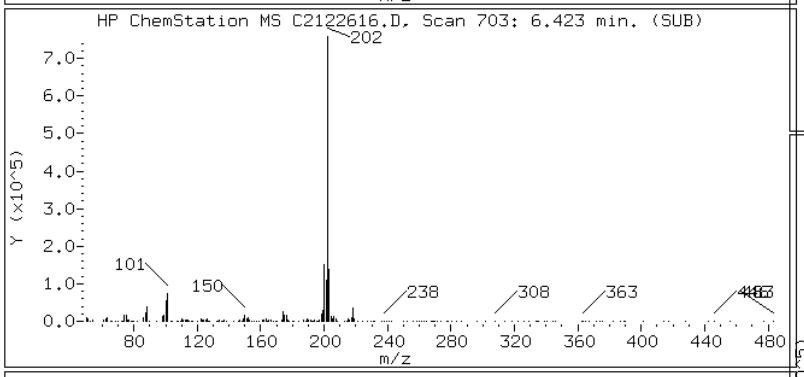
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

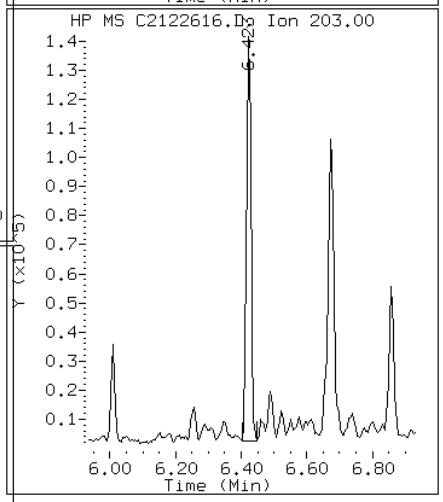
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

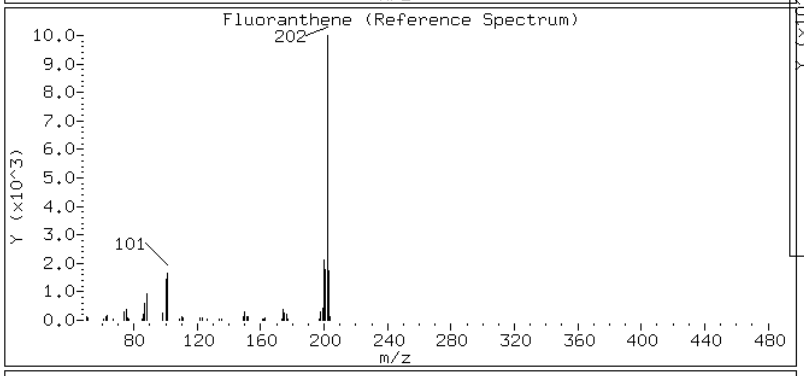
13 Fluoranthene

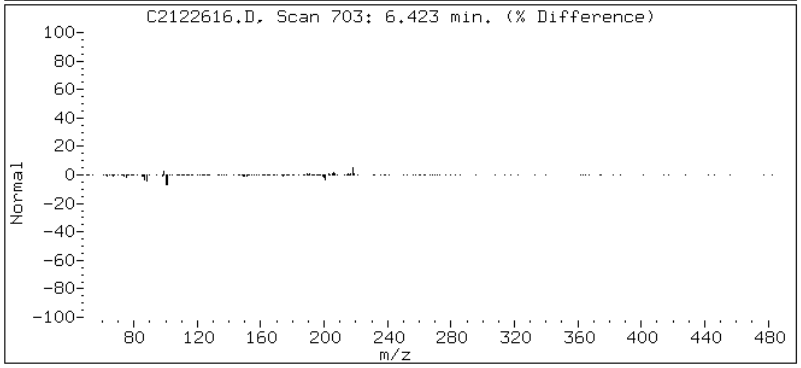












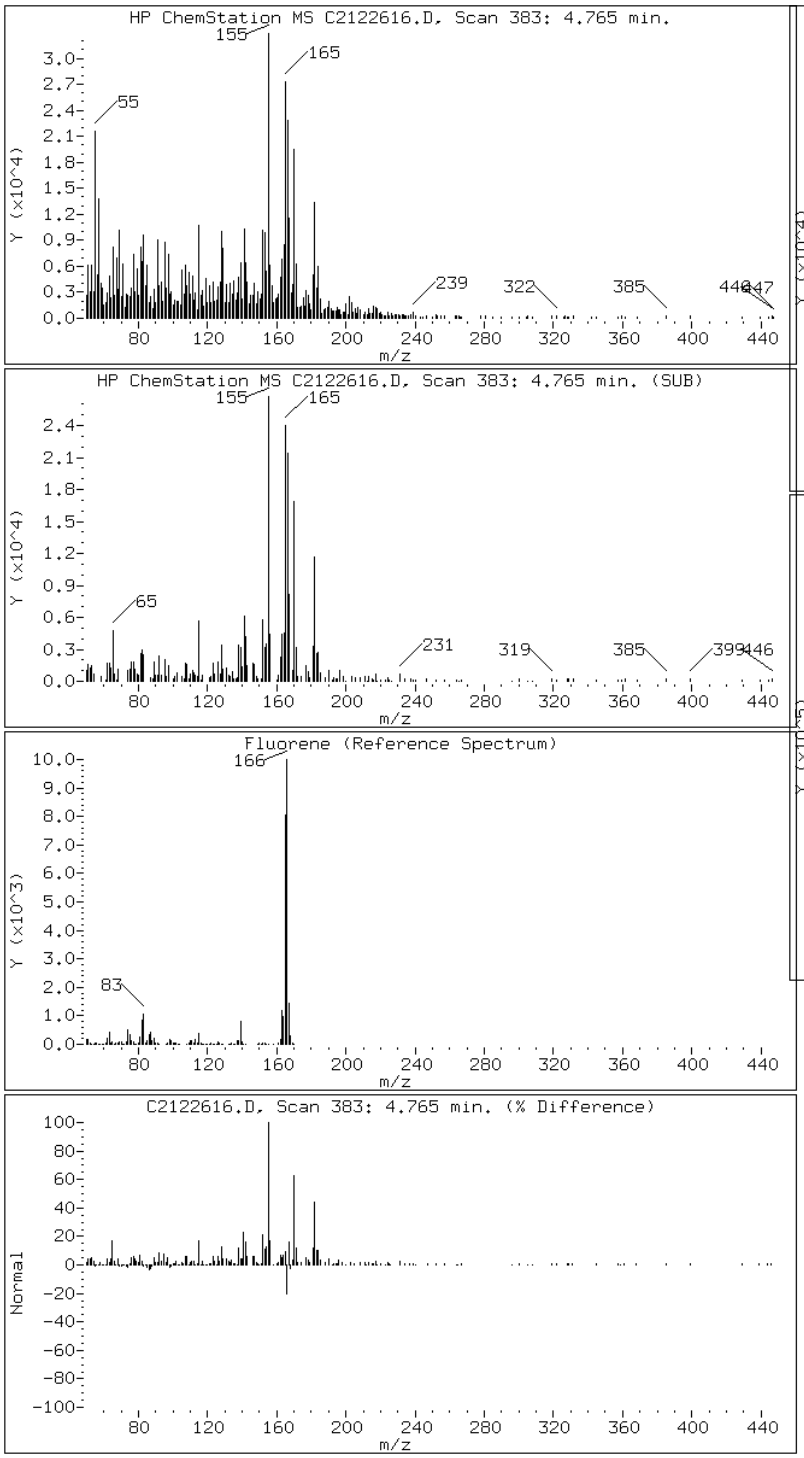
Data File: C2122616.D

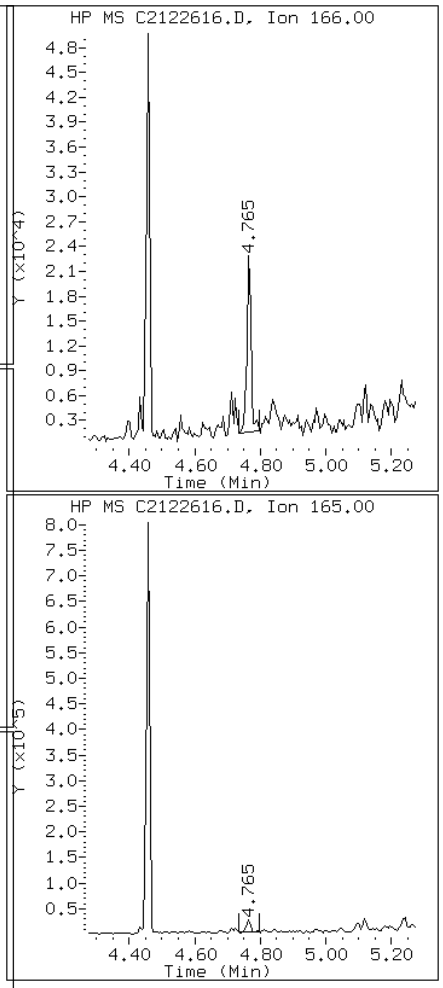
Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

8 Fluorene





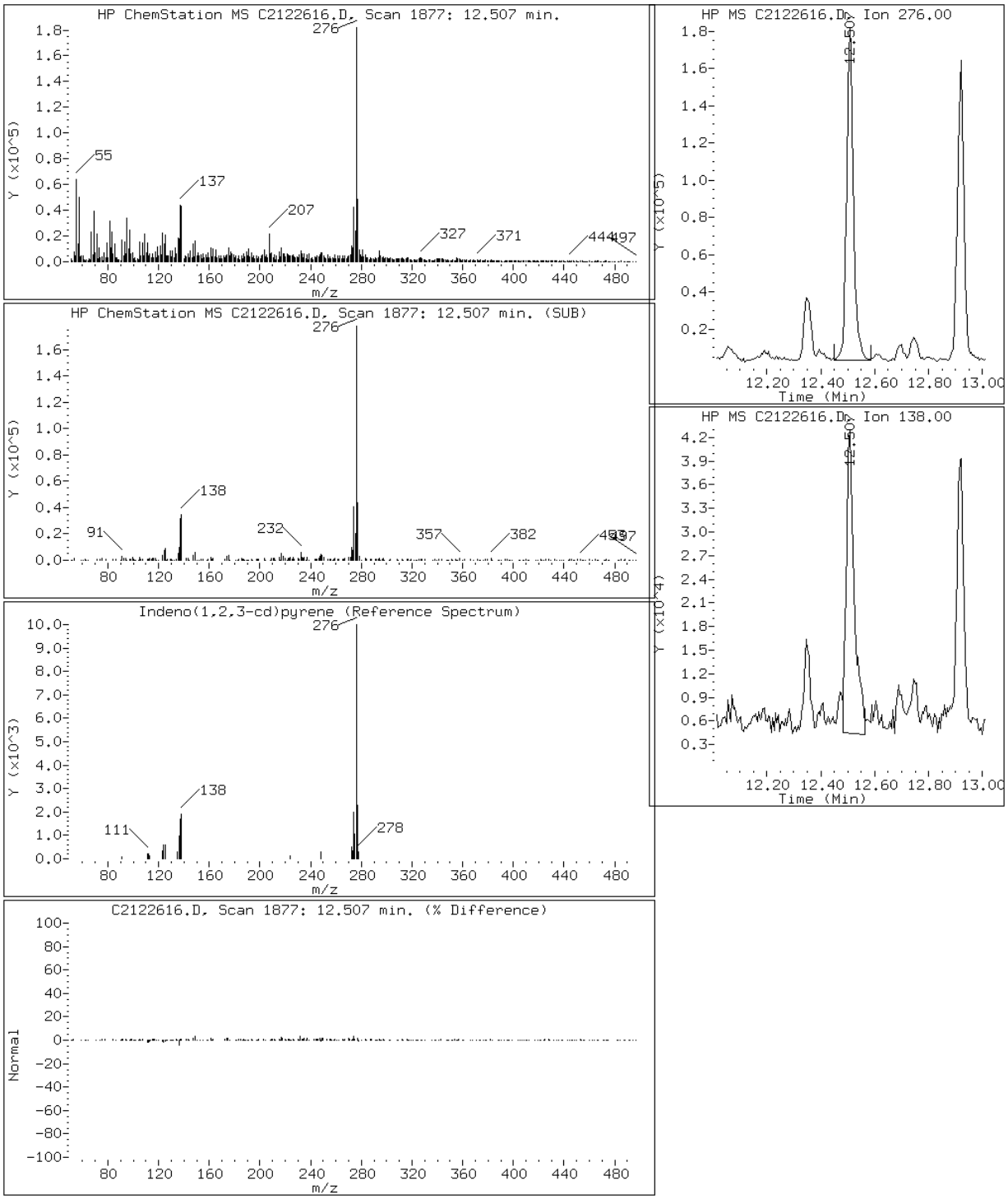
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

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



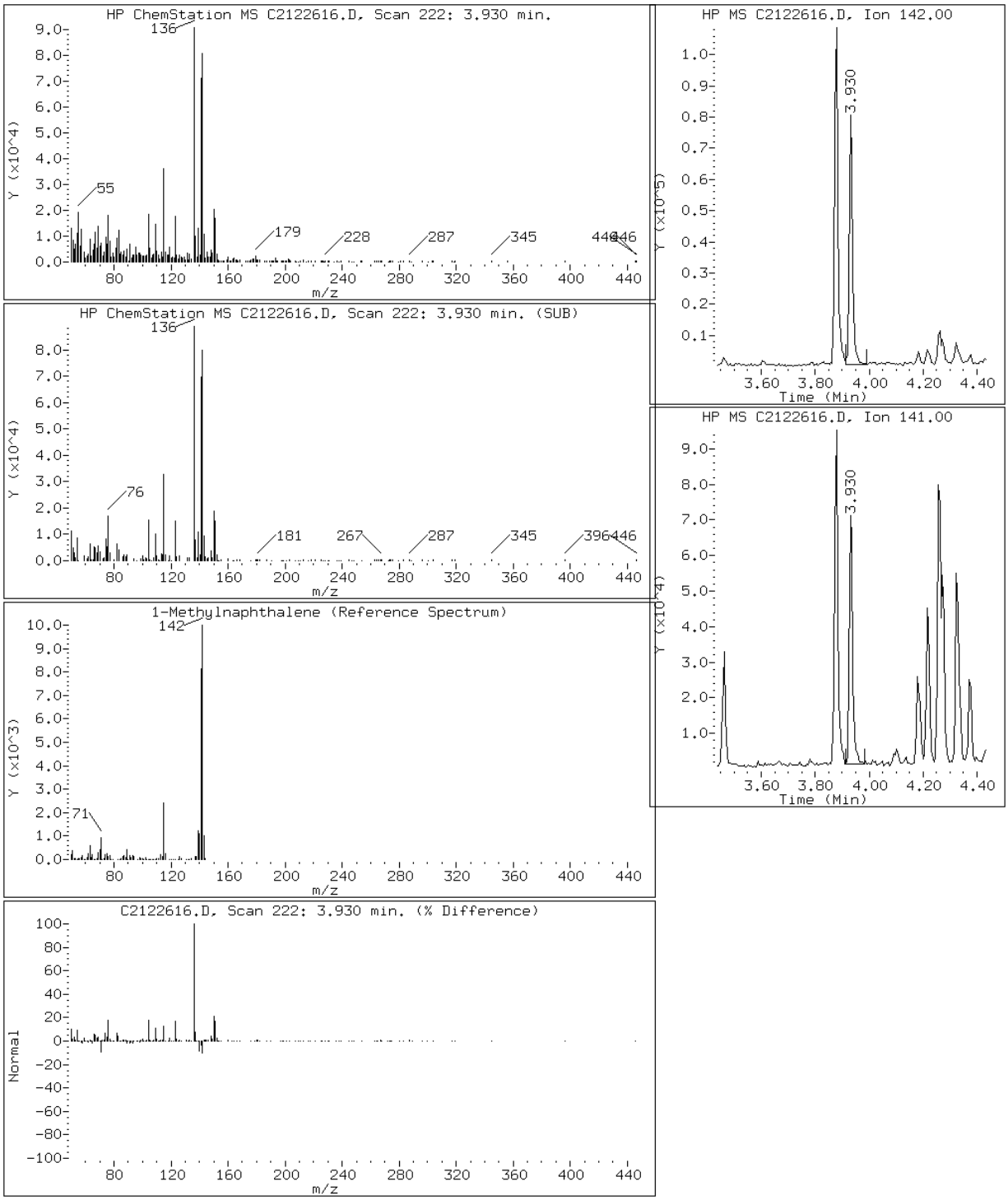
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene



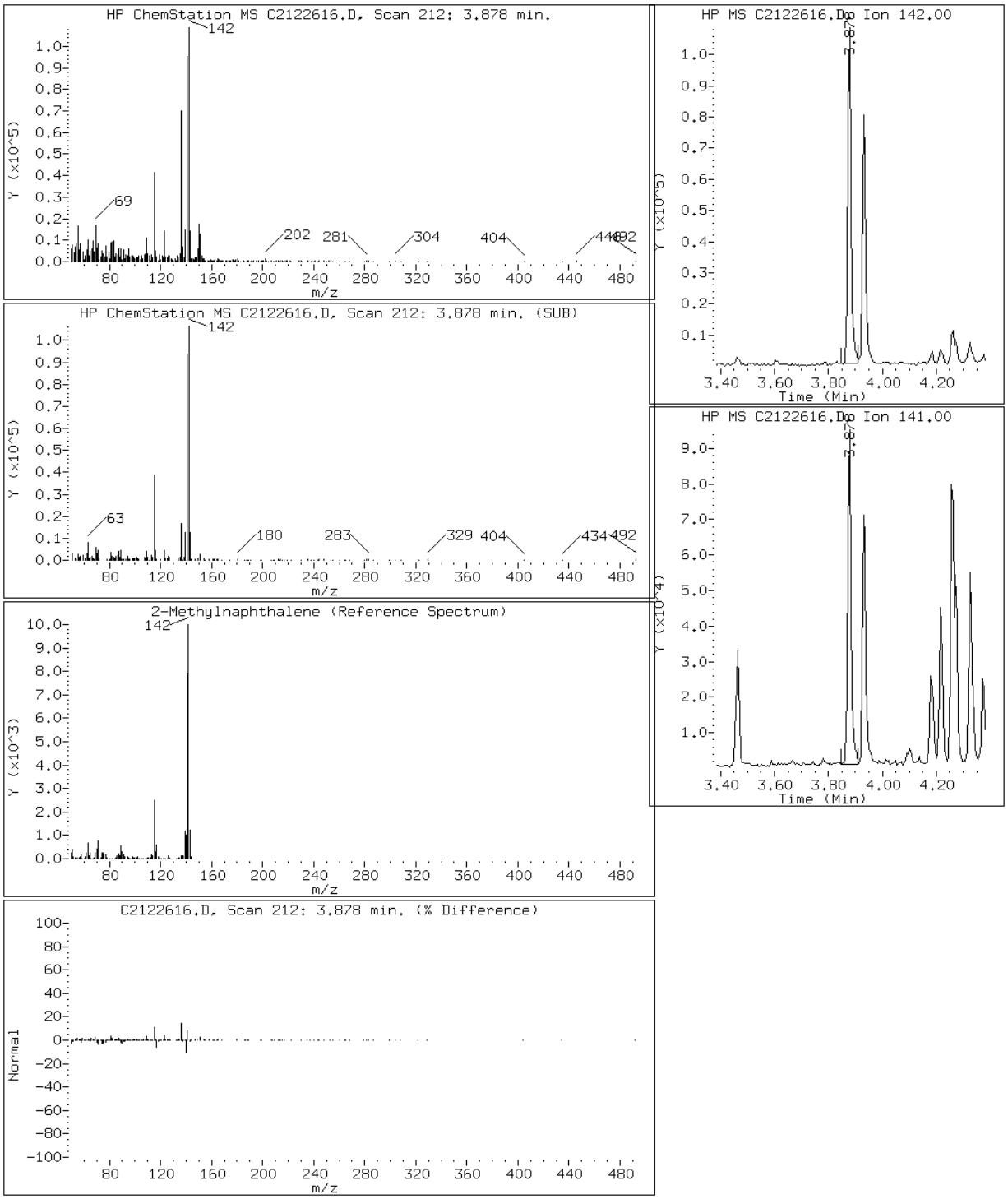
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



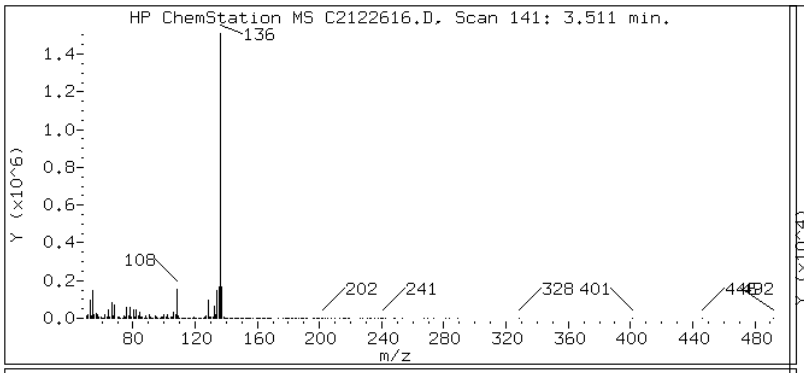
Data File: C2122616.D

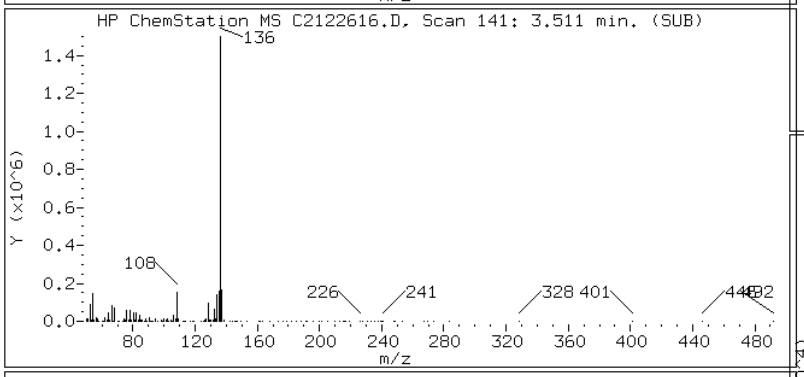
Date: 26-DEC-2012 17:49

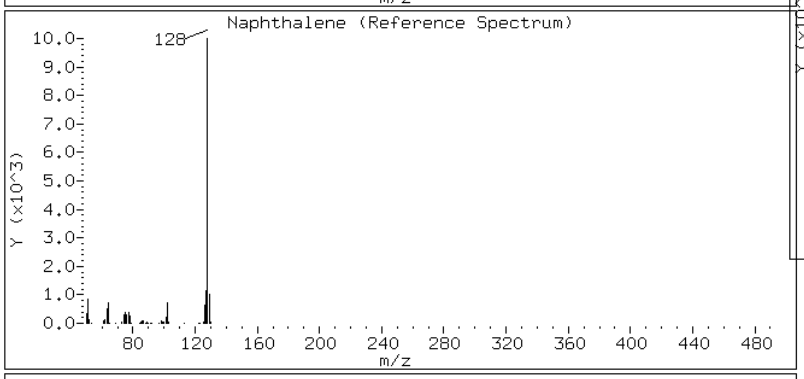
Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

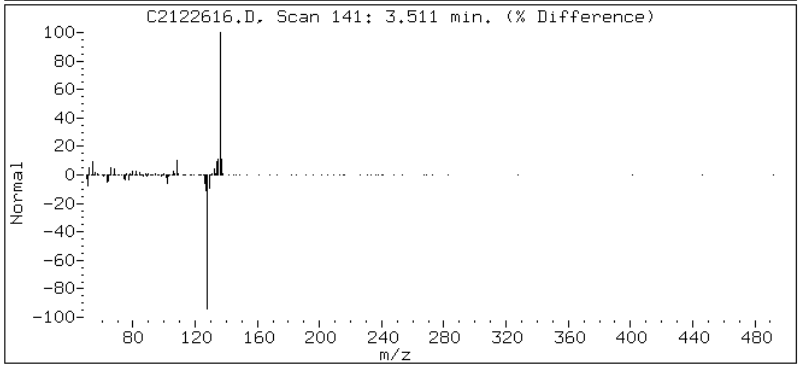
Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

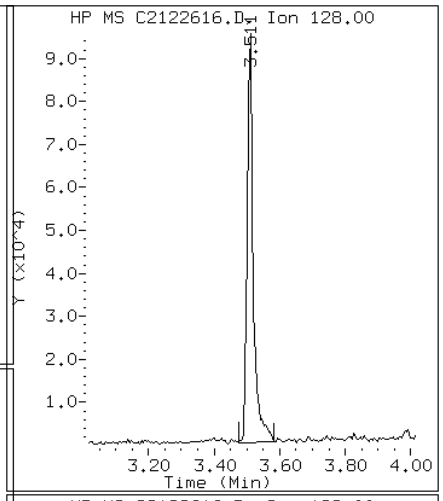
2 Naphthalene

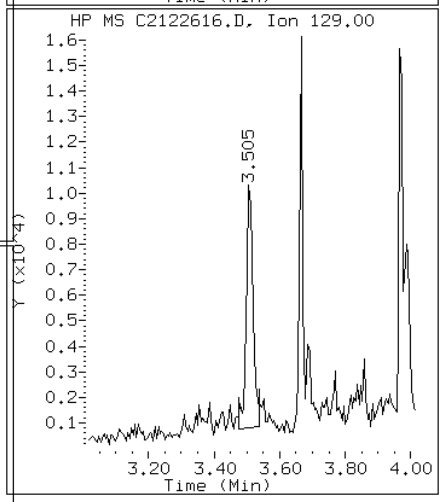












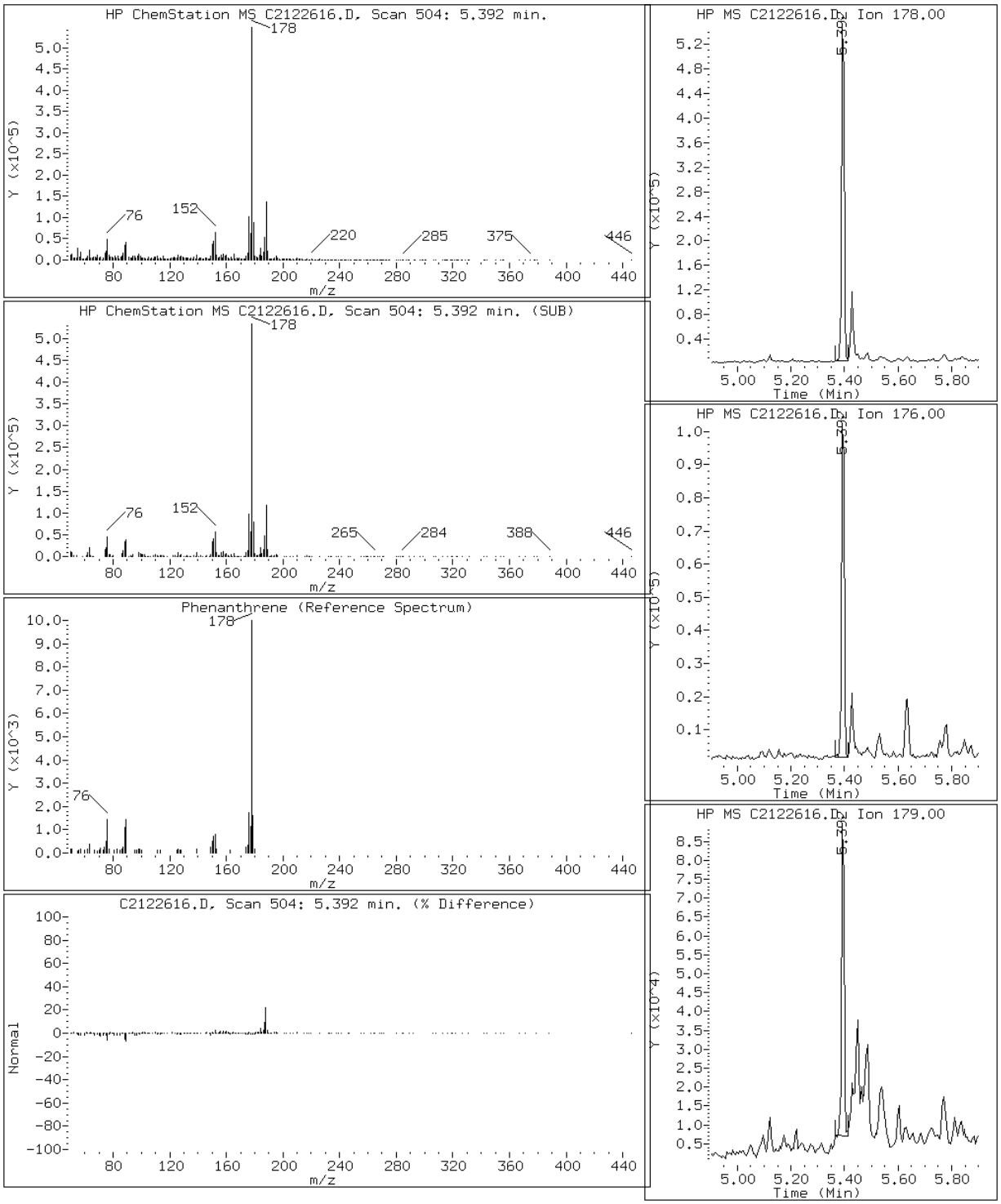
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



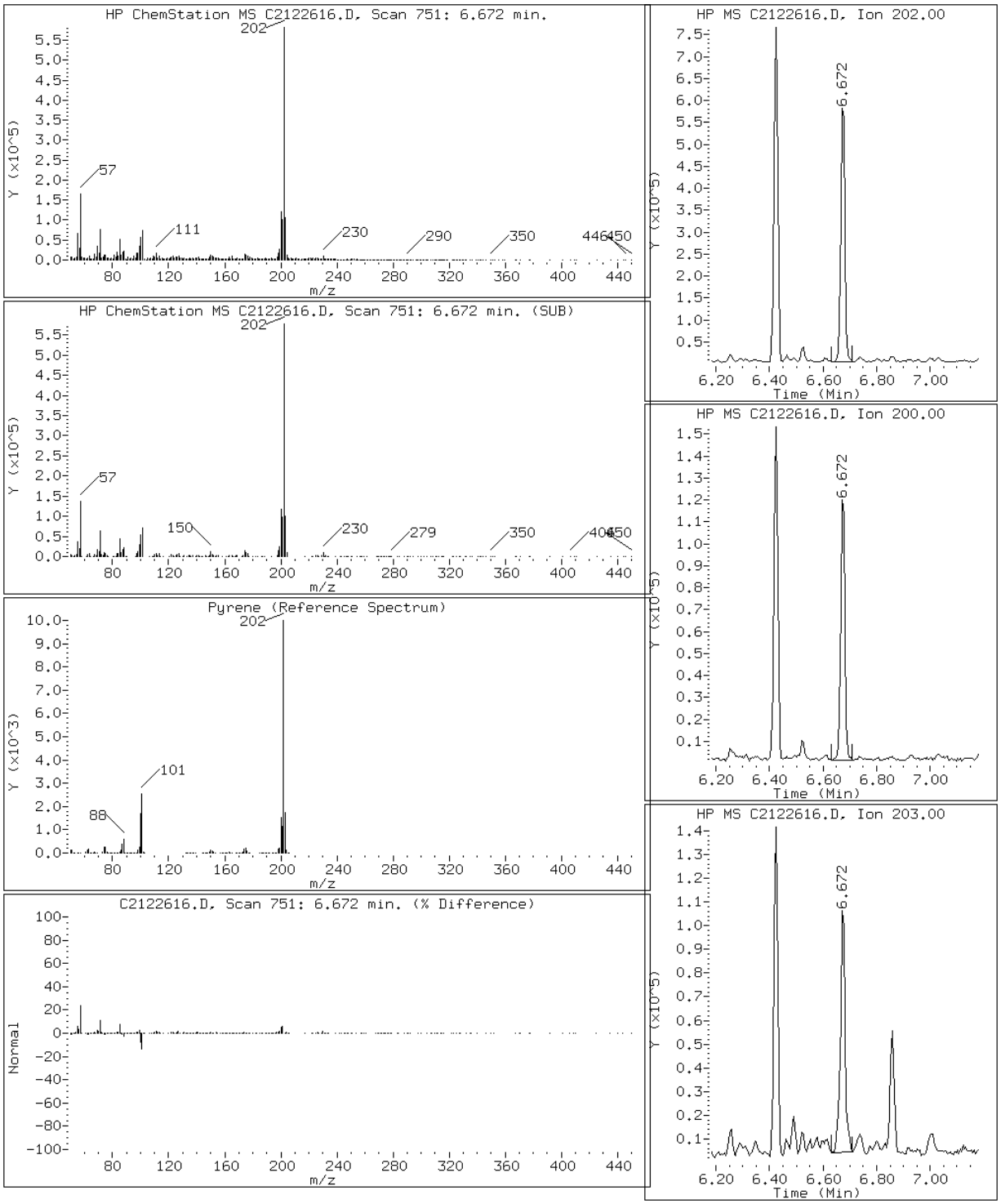
Data File: C2122616.D

Date: 26-DEC-2012 17:49

Client ID: CV0703B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-21-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122616.D
Inj. Date and Time: 26-DEC-2012 17:49
Instrument ID: TSMC5973.i
Client ID: CV0703B-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

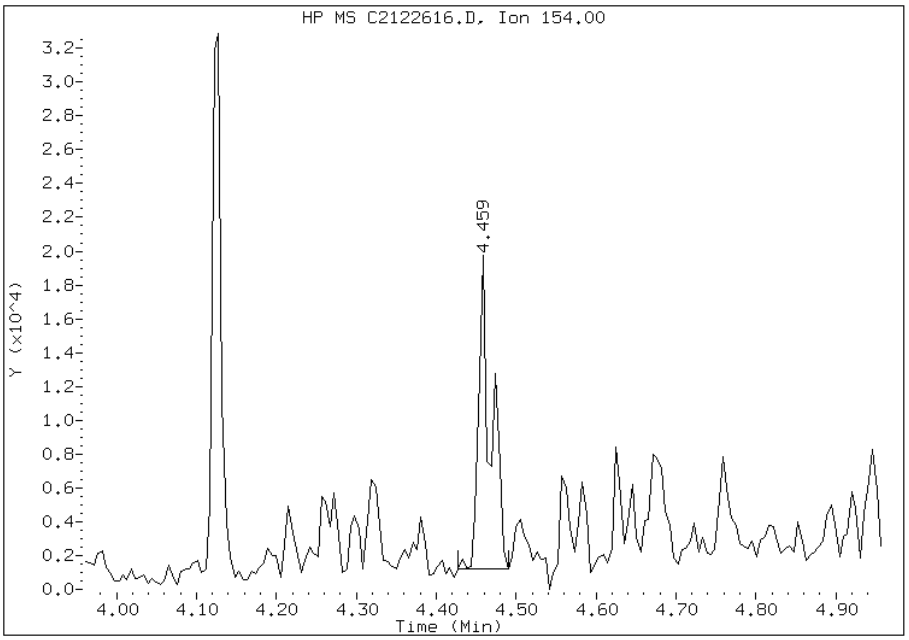
Processing Integration Results

RT: 4.46

Response: 20397

Amount: 0

Conc: 6



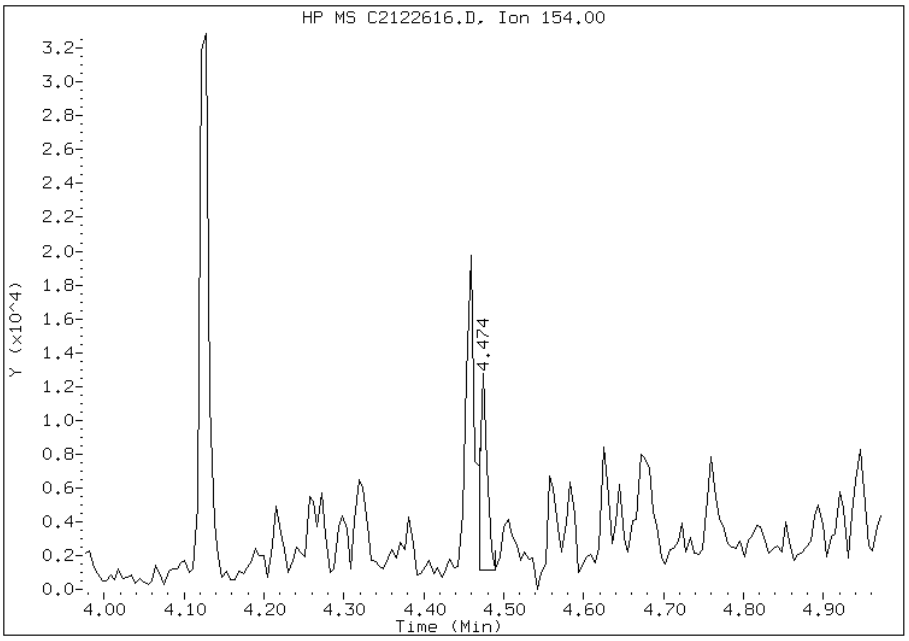
Manual Integration Results

RT: 4.47

Response: 7828

Amount: 0

Conc: 2



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122616.D
Inj. Date and Time: 26-DEC-2012 17:49
Instrument ID: TSMC5973.i
Client ID: CV0703B-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

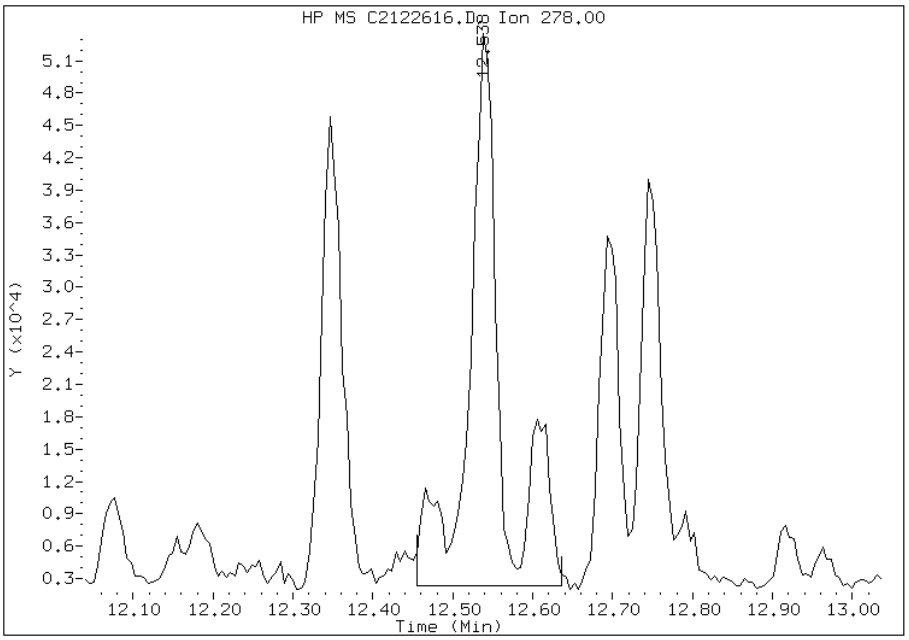
Processing Integration Results

RT: 12.54

Response: 147338

Amount: 1

Conc: 21



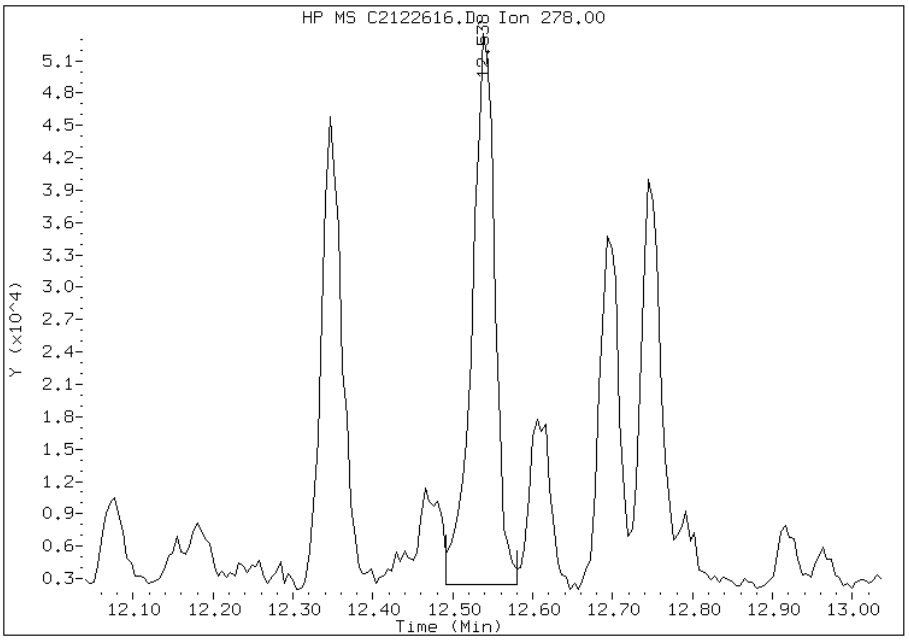
Manual Integration Results

RT: 12.54

Response: 103741

Amount: 0

Conc: 15



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:25
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0705A-CS-SP | Lab Sample ID: 680-85785-22

Matrix: Solid | Lab File ID: C2122620.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:35

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.69(g) | Date Analyzed: 12/26/2012 19:05

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 24.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.1	J	8.7	0.75
208-96-8	Acenaphthylene	21		8.7	0.69
120-12-7	Anthracene	32		8.7	0.86
56-55-3	Benzo[a]anthracene	100		8.7	0.81
50-32-8	Benzo[a]pyrene	120		8.7	0.88
205-99-2	Benzo[b]fluoranthene	220		8.7	1.2
191-24-2	Benzo[g,h,i]perylene	52		8.7	1.4
207-08-9	Benzo[k]fluoranthene	81		8.7	0.83
218-01-9	Chrysene	170		8.7	0.97
53-70-3	Dibenz(a,h)anthracene	21		8.7	0.84
206-44-0	Fluoranthene	180		8.7	0.78
86-73-7	Fluorene	7.4	J	8.7	0.68
193-39-5	Indeno[1,2,3-cd]pyrene	64		8.7	1.4
90-12-0	1-Methylnaphthalene	53		8.7	0.69
91-57-6	2-Methylnaphthalene	56		8.7	0.68
91-20-3	Naphthalene	37		8.7	0.68
85-01-8	Phenanthrene	150		8.7	0.57
129-00-0	Pyrene	130		8.7	0.68

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	80		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122620.D
Lab Smp Id: 680-85785-A-22-A Client Smp ID: CV0705A-CS-SP
Inj Date : 26-DEC-2012 19:05
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-22-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.690	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.941)	160345	2.03963	66	
* 1 Naphthalene-d8	136	3.499	3.505	(1.000)	7306067	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	152765	0.85561	28	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	175571	1.29574	42	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	161724	1.21677	40	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	4072105	40.0000		
6 Acenaphthylene	152	4.380	4.381	(0.983)	108203	0.49450	16	
7 Acenaphthene	154	4.474	4.479	(1.003)	16101	0.14064	4.6(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	26230	0.17163	5.6(a)	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6607091	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	642465	3.47768	110	
11 Anthracene	178	5.427	5.438	(1.009)	146616	0.72865	24	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	385580	3.19915	100	
13 Fluoranthene	202	6.422	6.433	(1.194)	1025960	4.16350	140	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.334	8.340	(1.000)	8147709	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	921455	3.01870	98	
16 Benzo(a)anthracene	228	8.309	8.309	(0.997)	649994	2.30359	75	
17 Chrysene	228	8.366	8.371	(1.004)	962432	3.98405	130	
* 18 Perylene-d12	264	10.791	10.781	(1.000)	8319710	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.936)	1320610	4.98279	160	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.940)	482798	1.86988	61	
21 Benzo(a)pyrene	252	10.651	10.656	(0.987)	668394	2.83068	92	
22 Indeno(1,2,3-cd)pyrene	276	12.506	12.512	(1.159)	369649	1.47117	48	
23 Dibenzo(a,h)anthracene	278	12.537	12.548	(1.162)	118027	0.47520	15(Q)	
24 Benzo(g,h,i)perylene	276	12.916	12.921	(1.197)	301750	1.20833	39	

QC Flag Legend

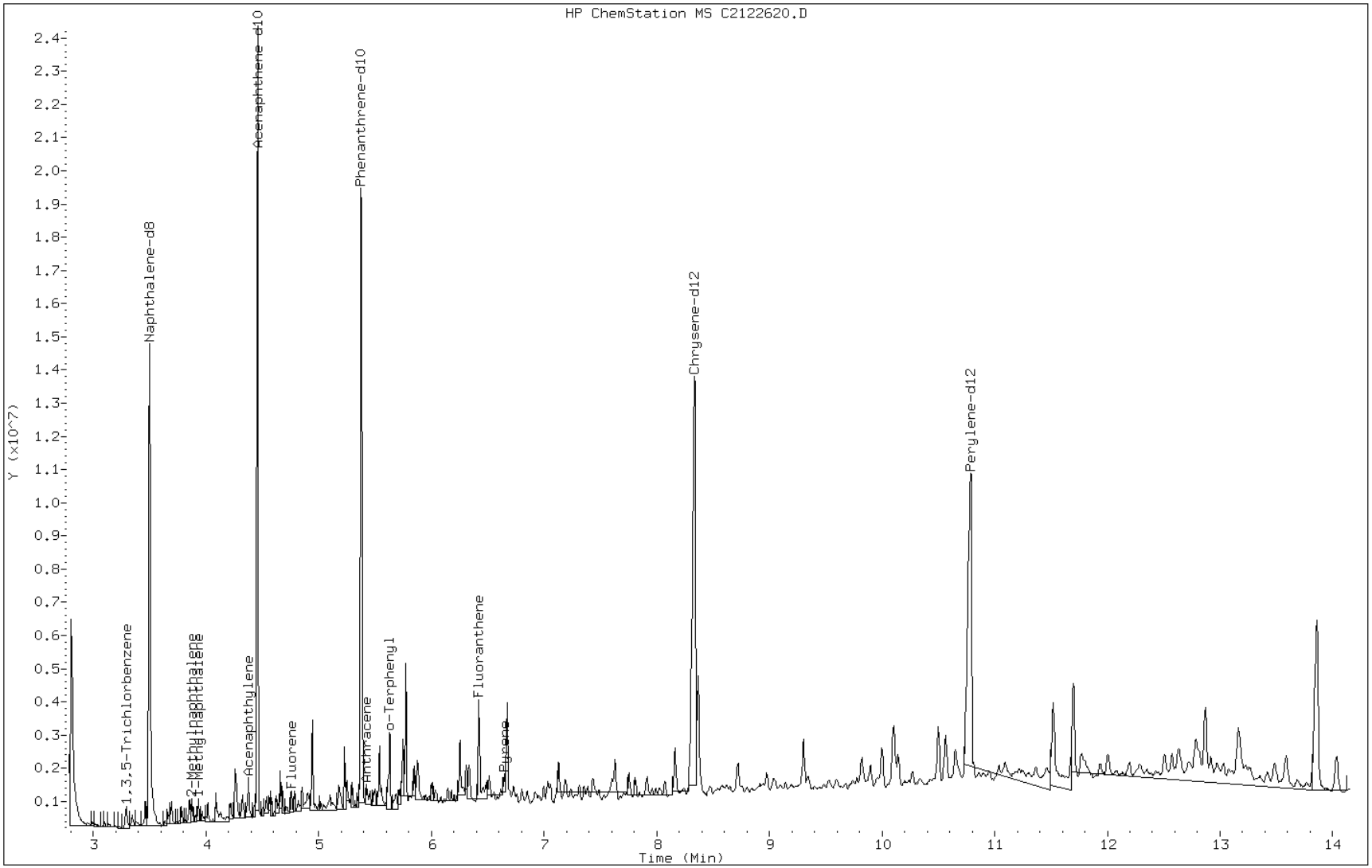
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW



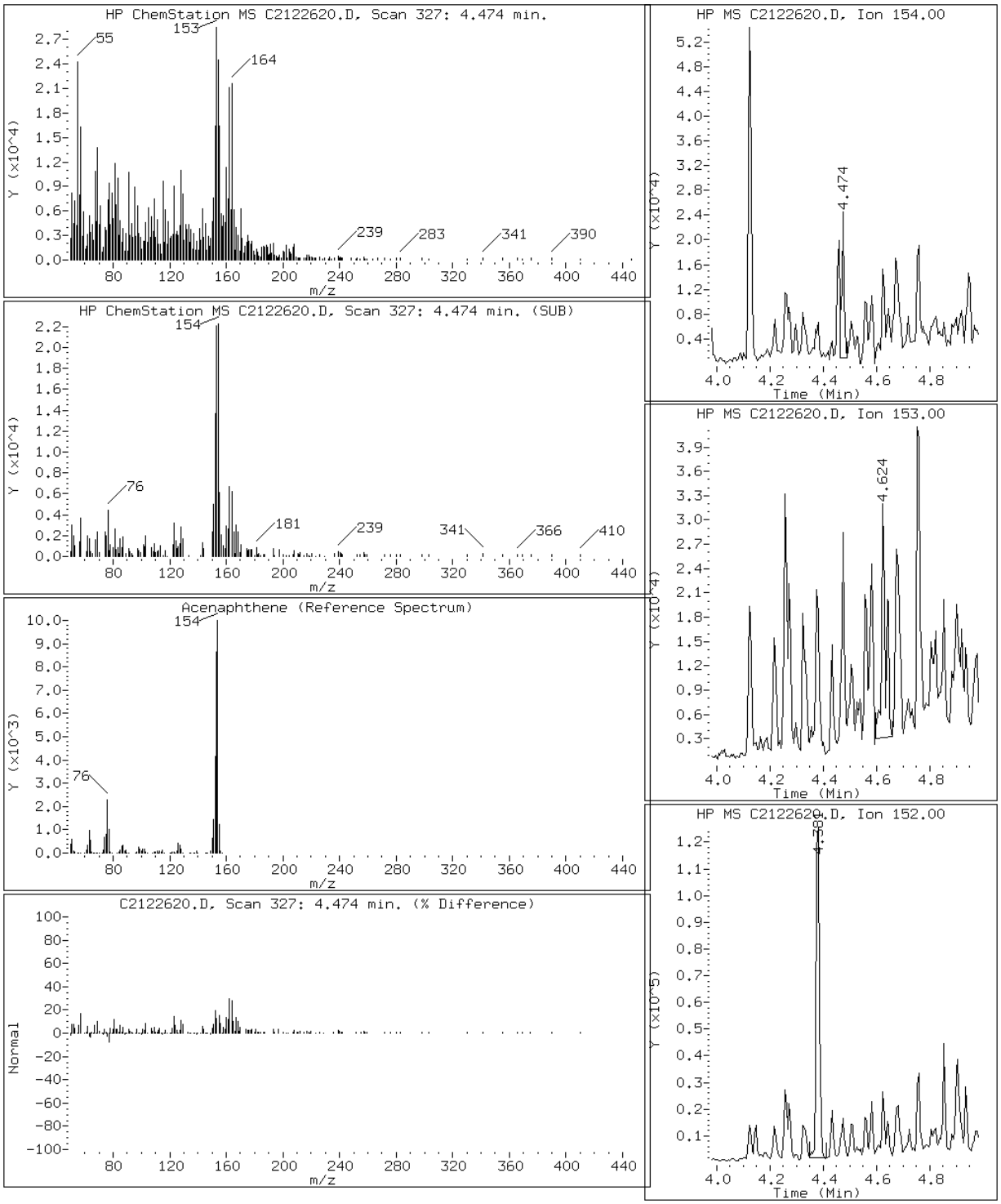
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



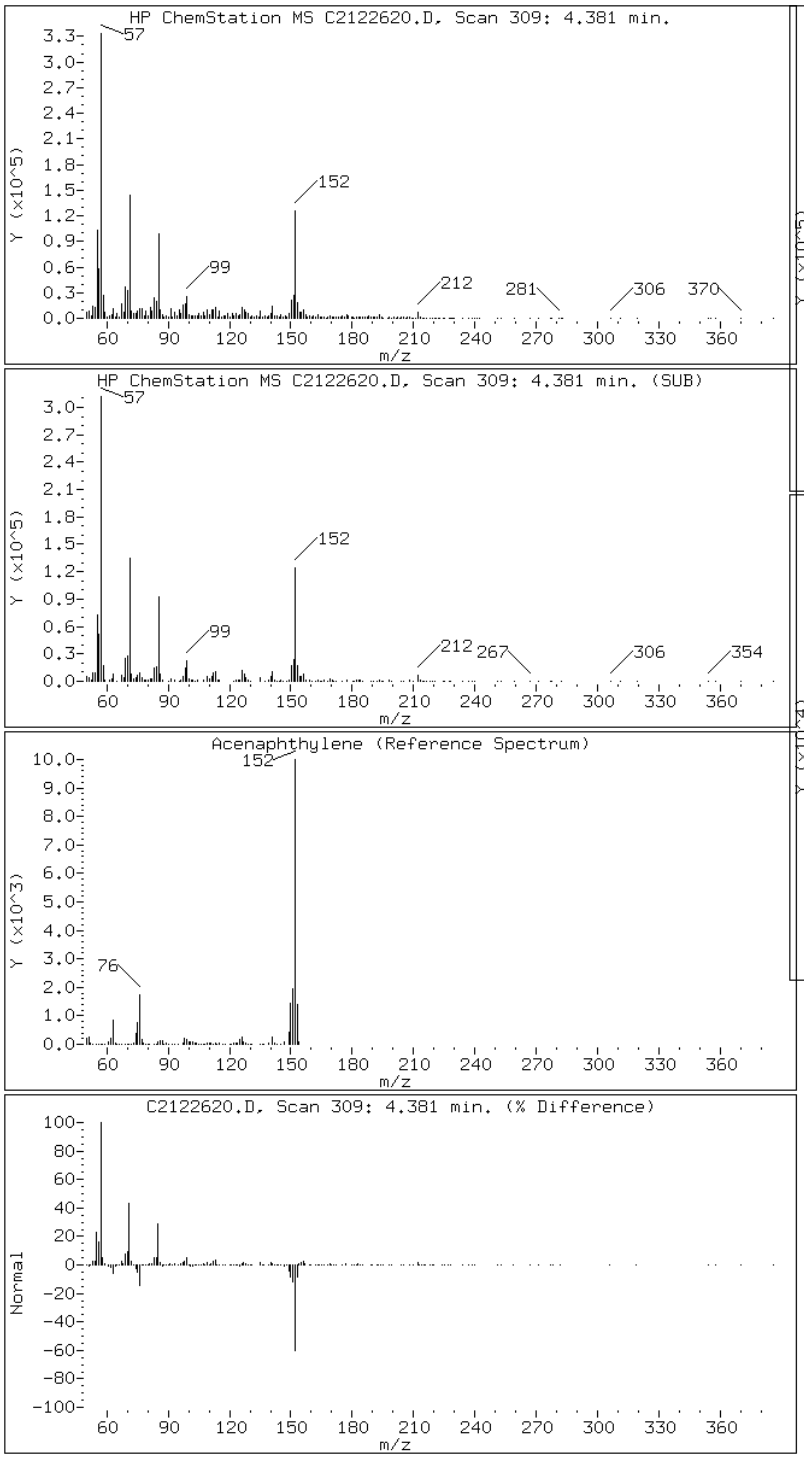
Data File: C2122620.D

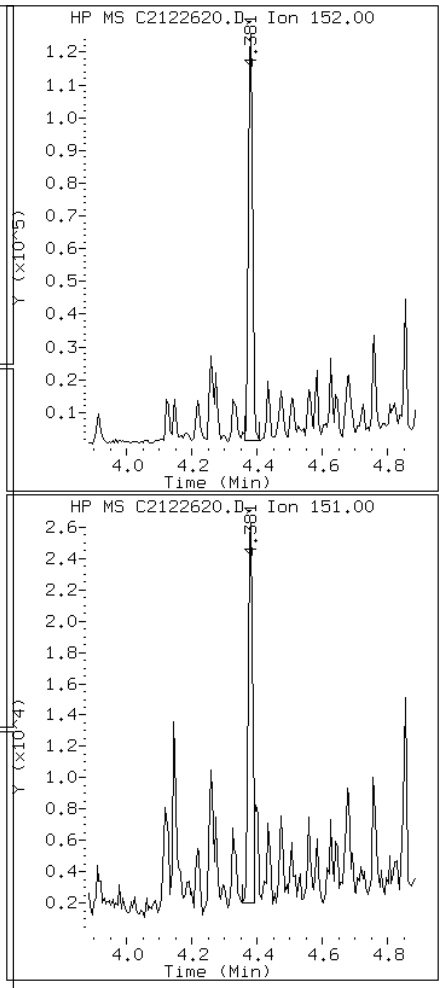
Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

6 Acenaphthylene





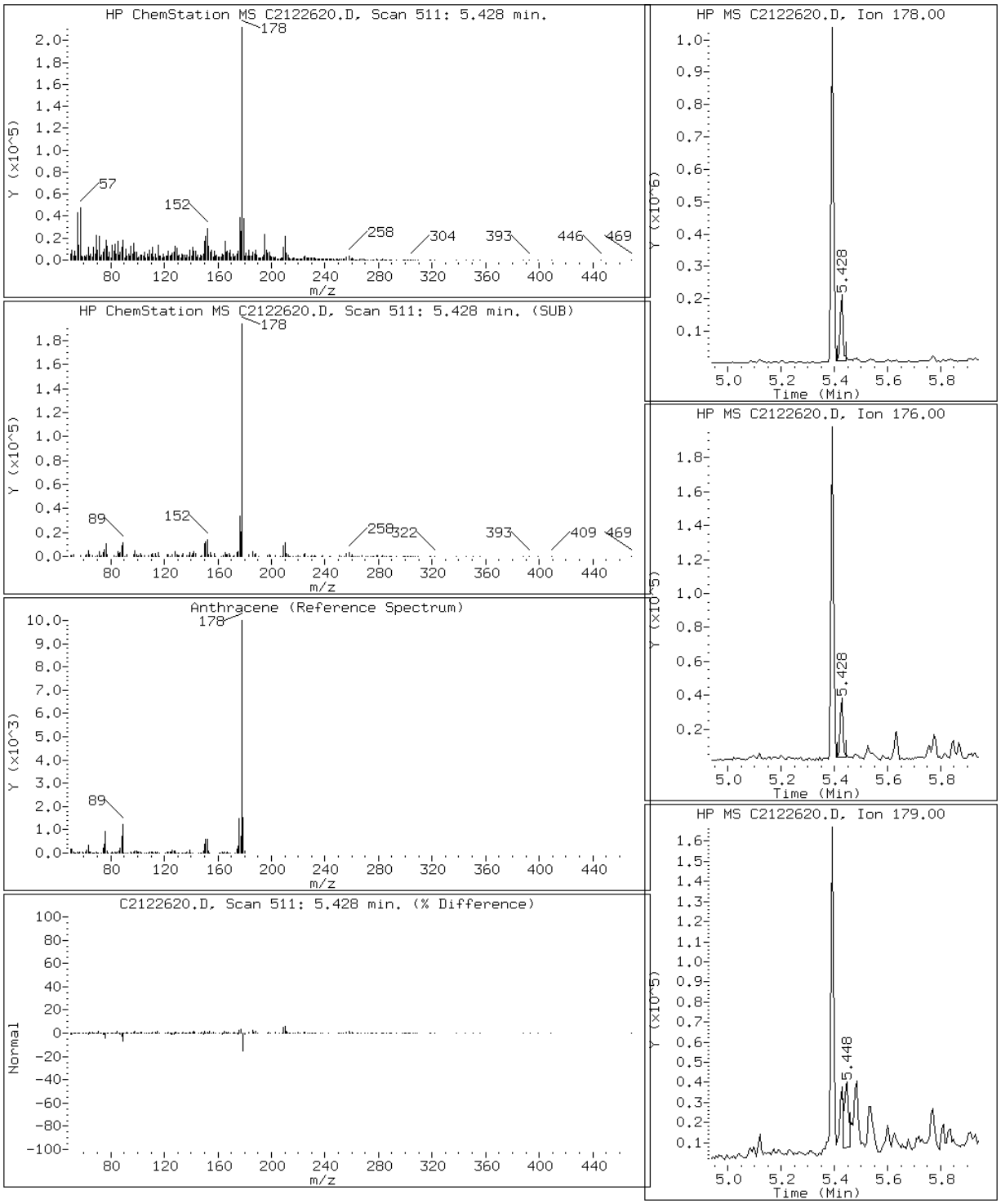
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

11 Anthracene



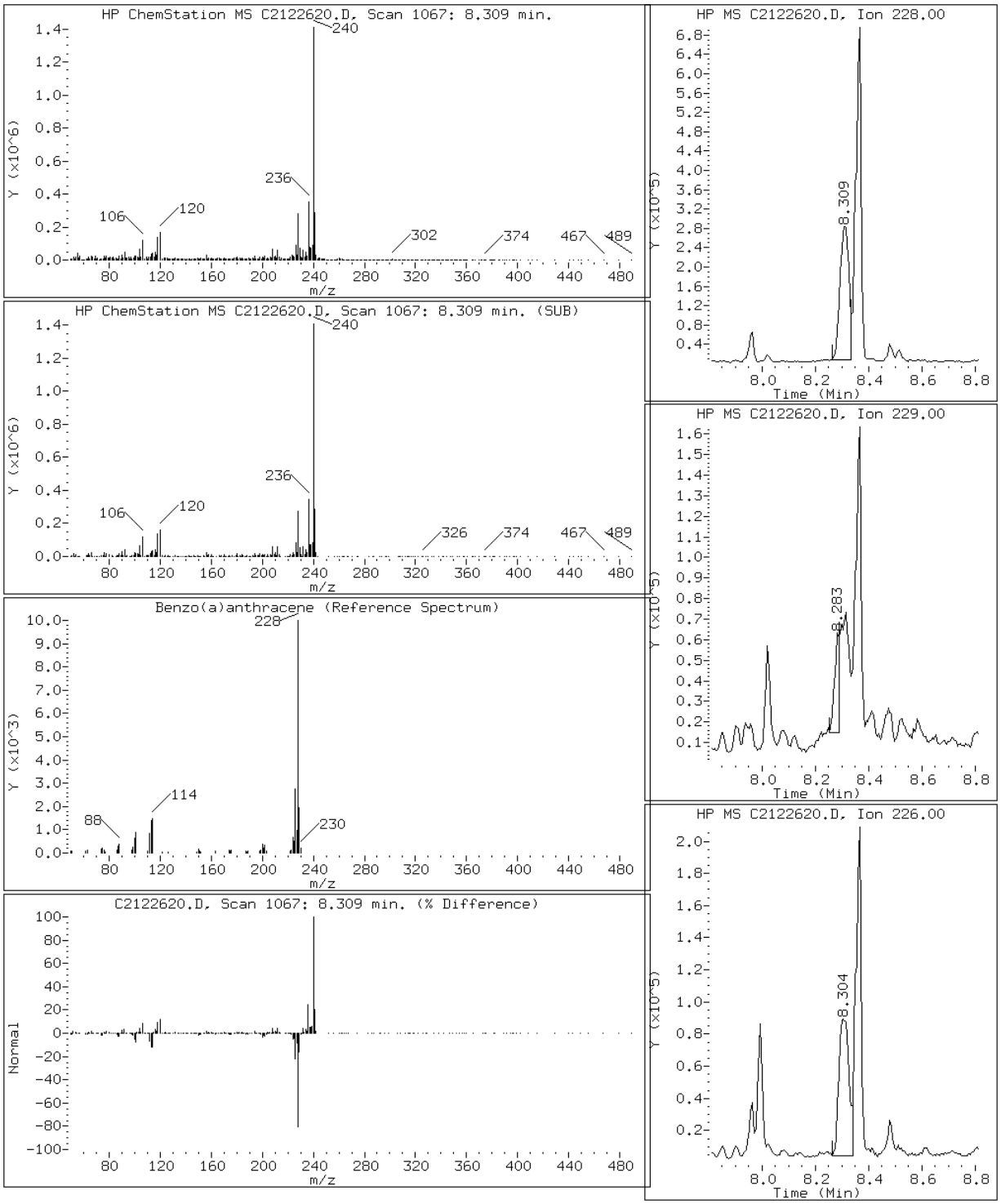
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



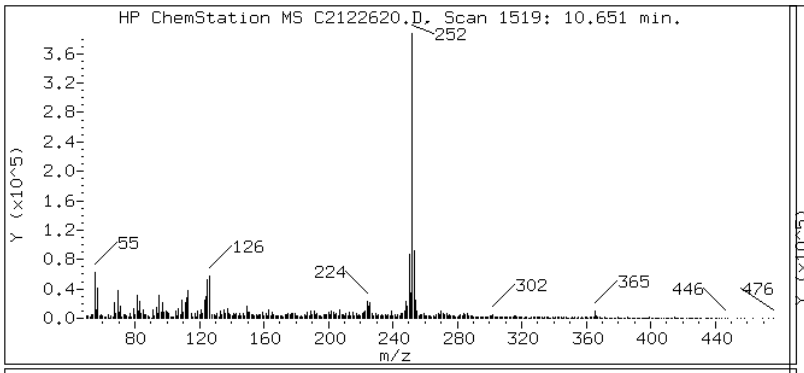
Data File: C2122620.D

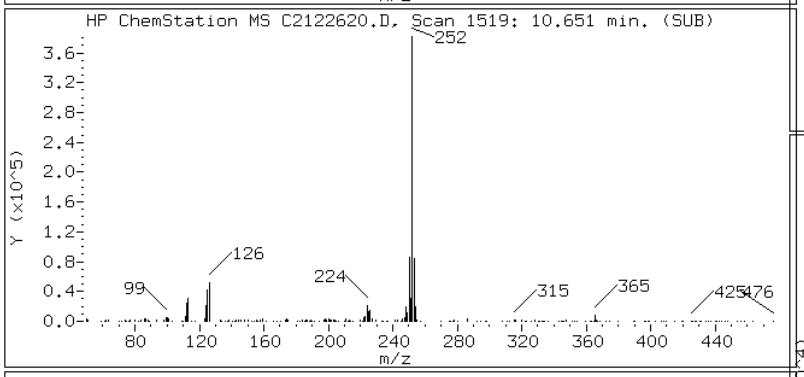
Date: 26-DEC-2012 19:05

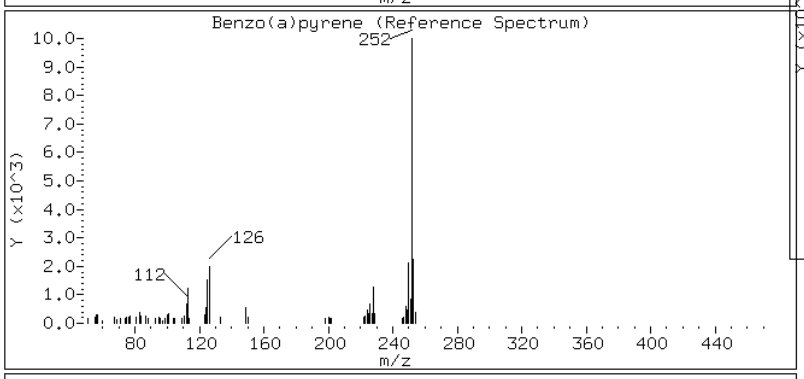
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

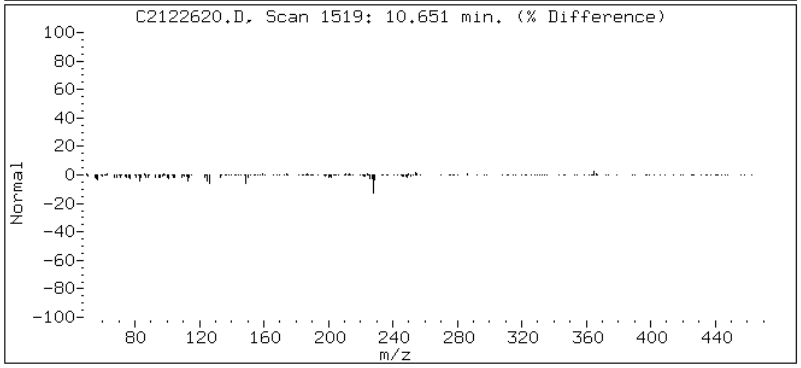
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

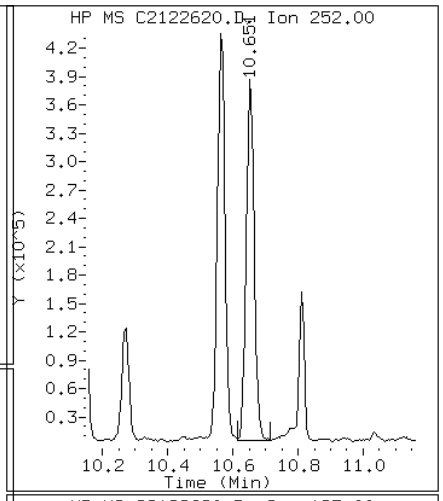
21 Benzo(a)pyrene

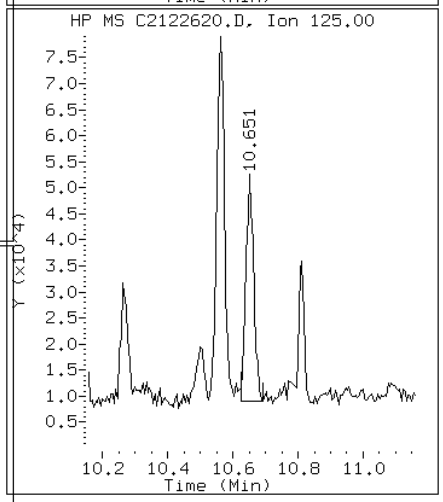












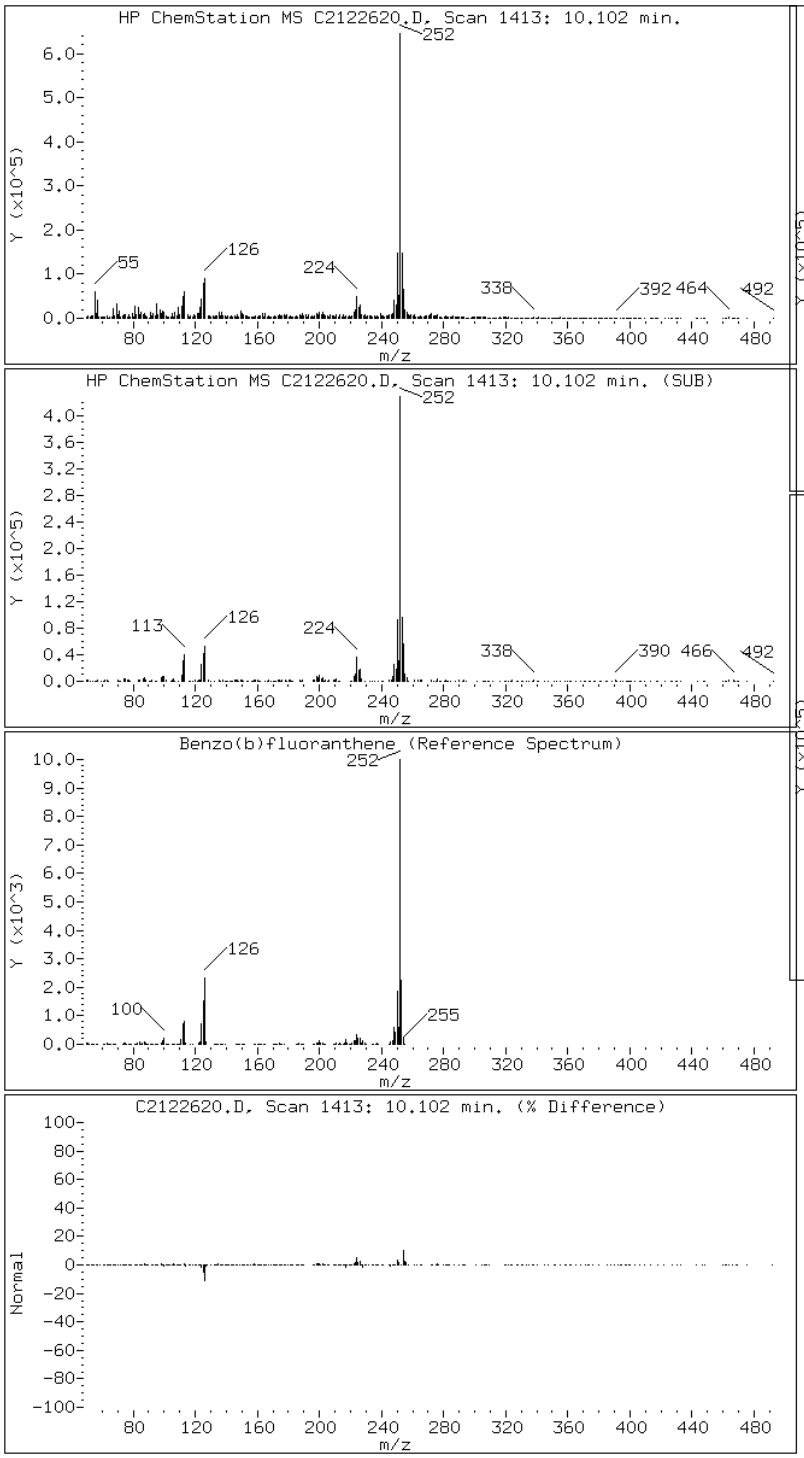
Data File: C2122620.D

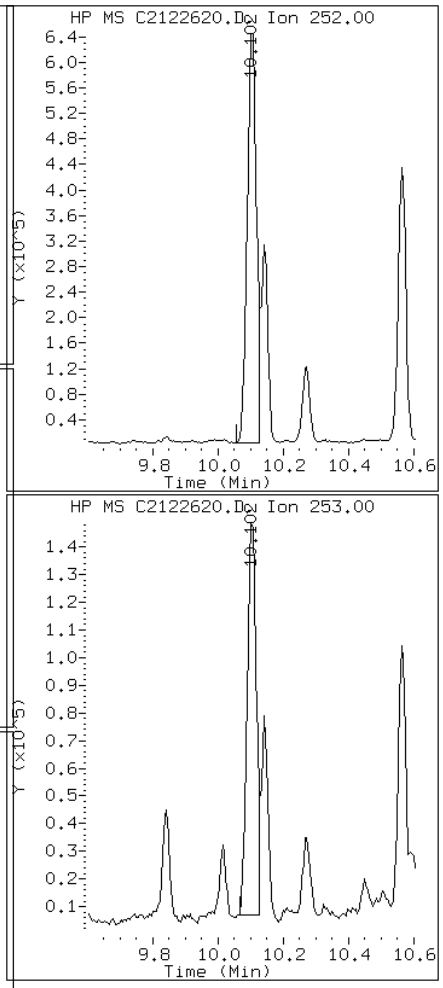
Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

19 Benzo(b)fluoranthene





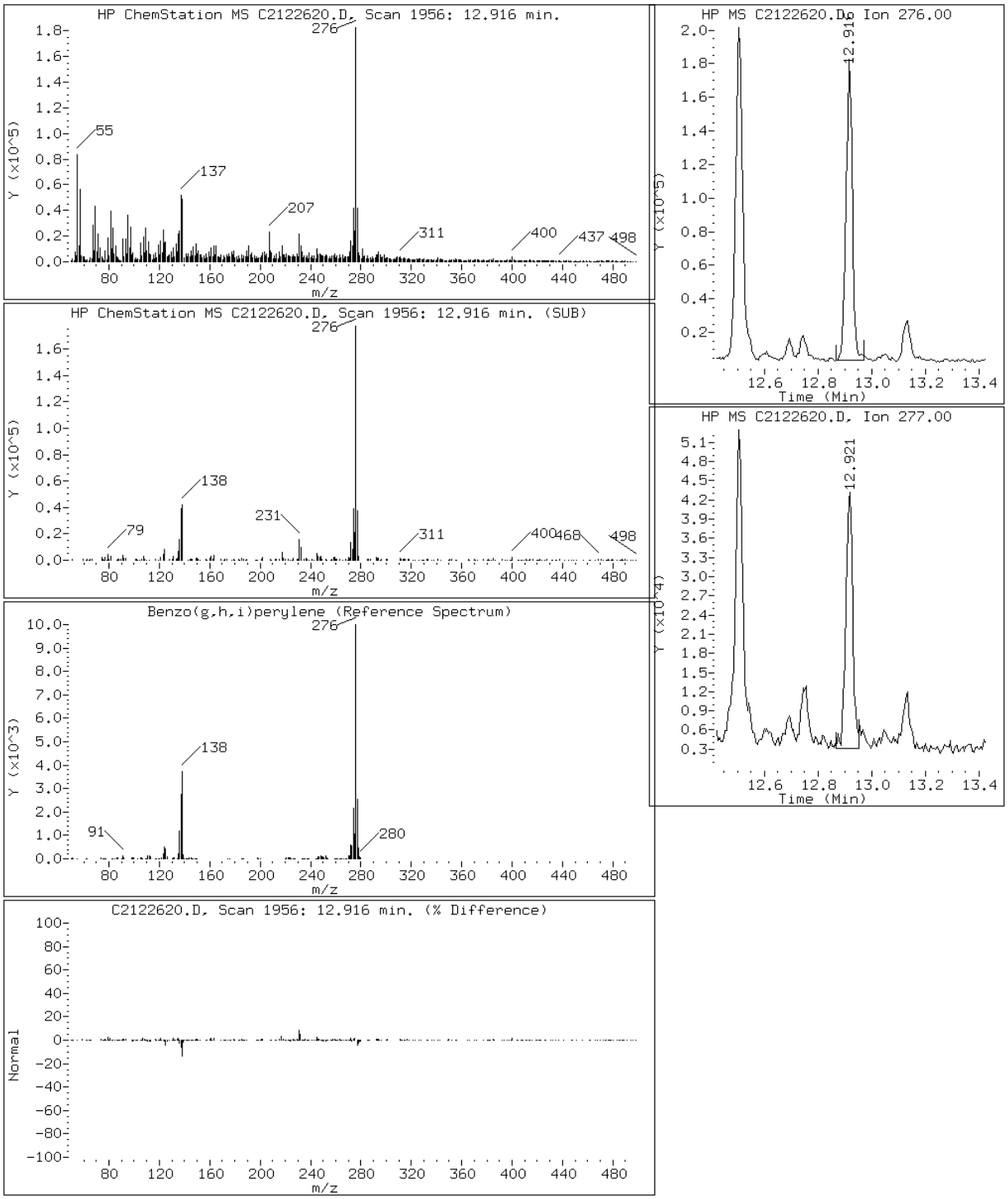
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



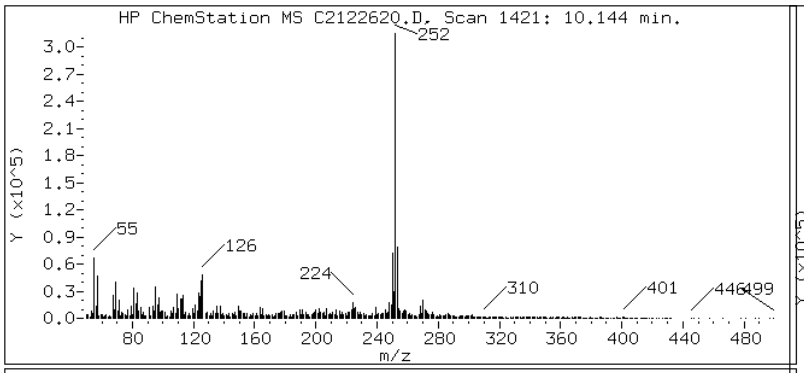
Data File: C2122620.D

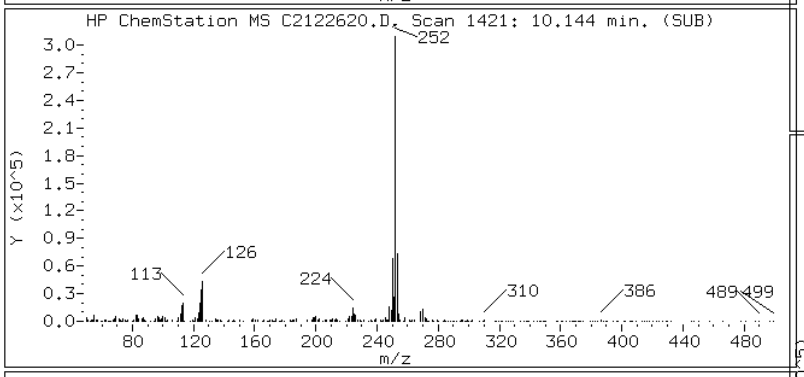
Date: 26-DEC-2012 19:05

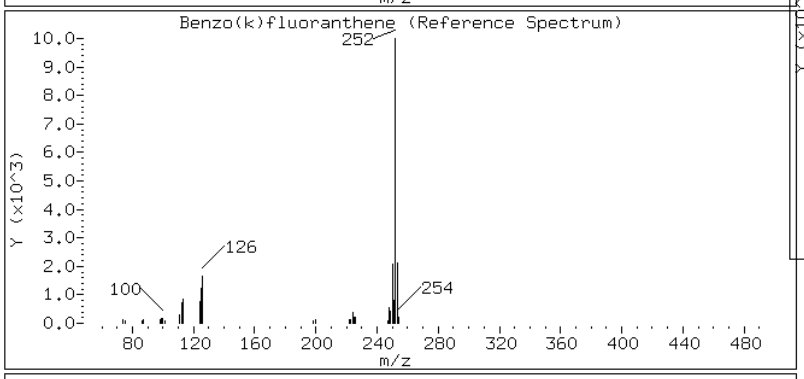
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

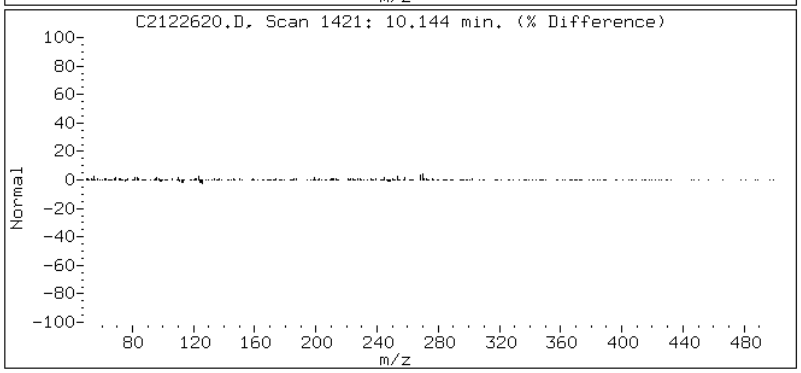
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

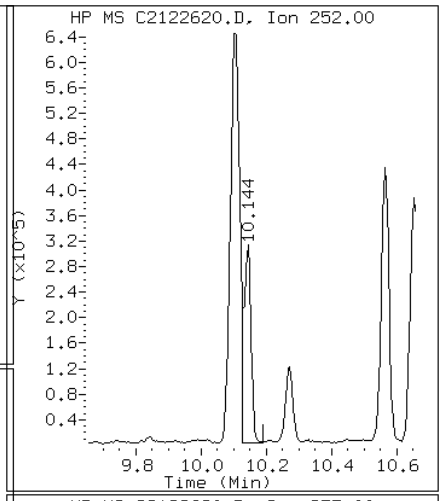
20 Benzo(k)fluoranthene

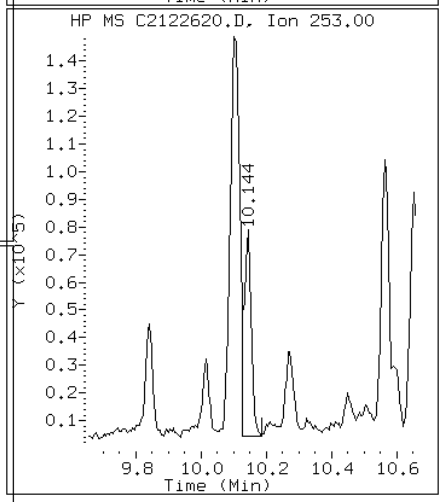












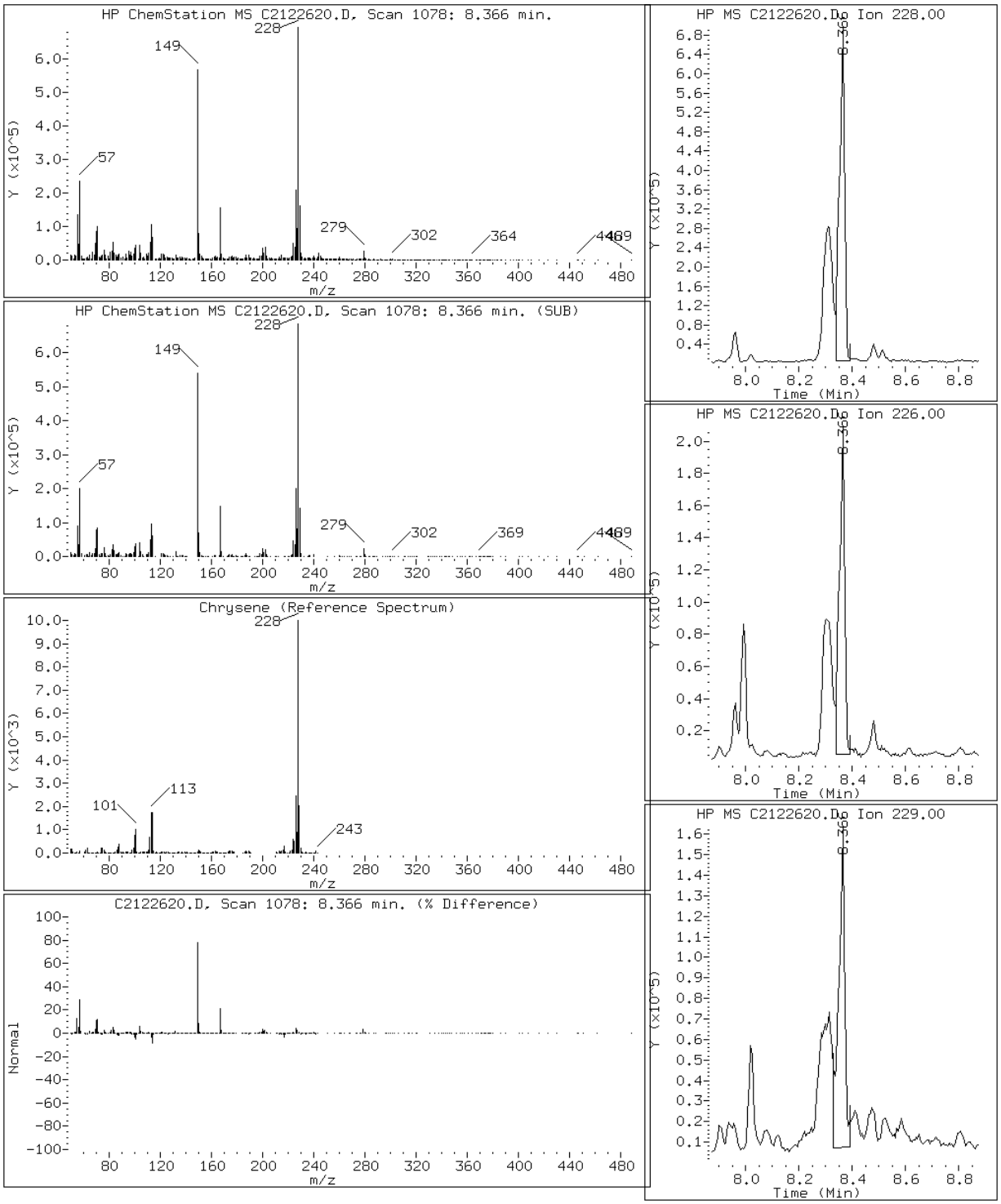
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

17 Chrysene



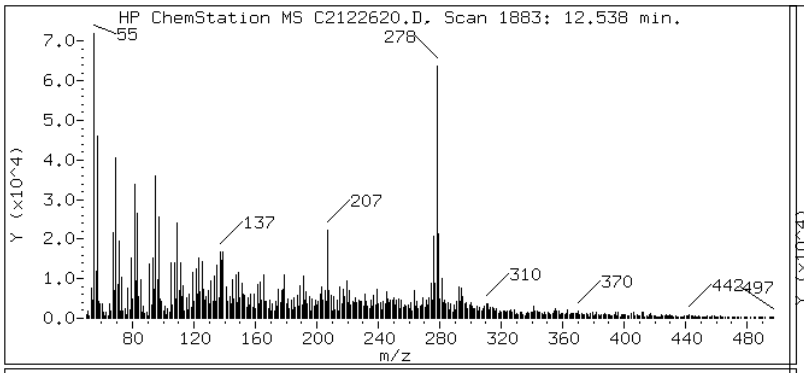
Data File: C2122620.D

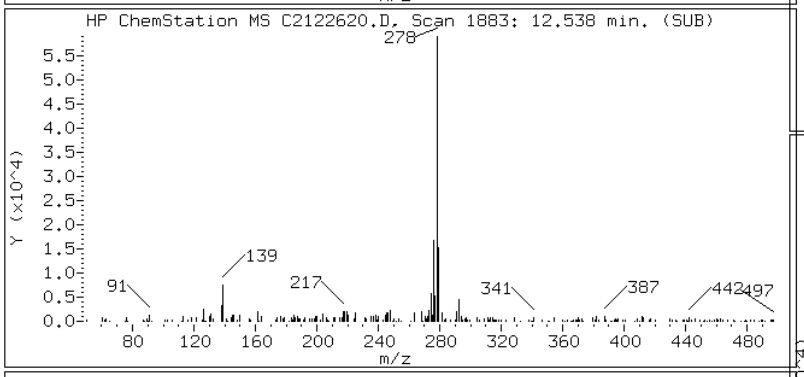
Date: 26-DEC-2012 19:05

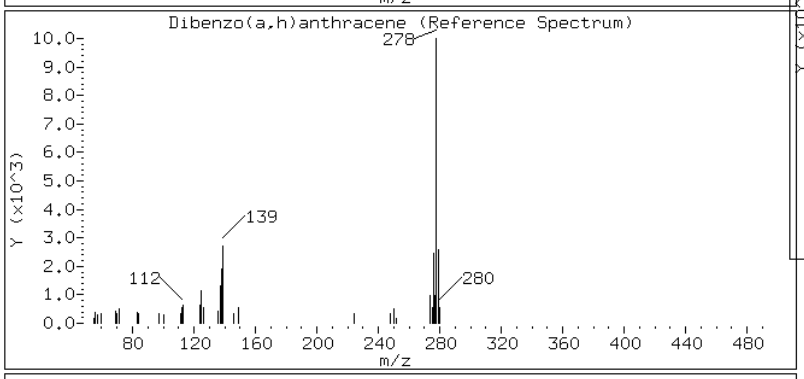
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

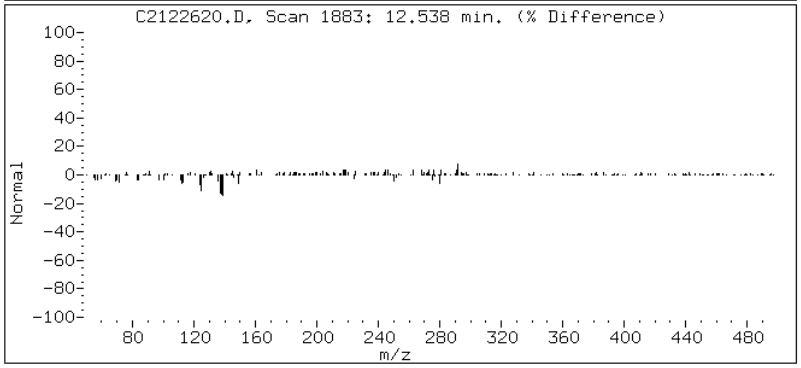
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

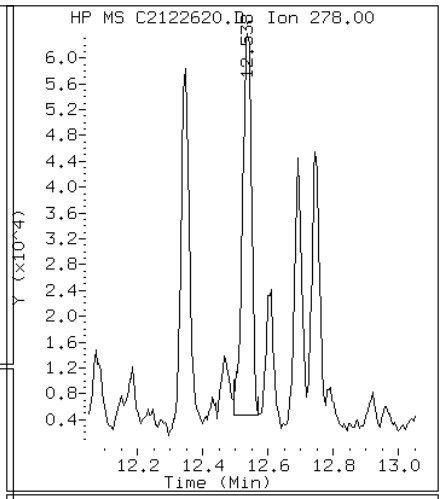
23 Dibenzo(a,h)anthracene

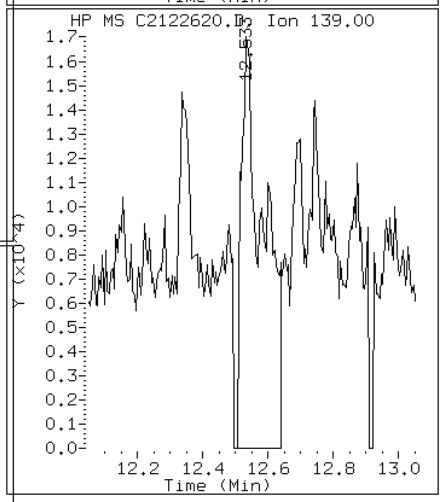












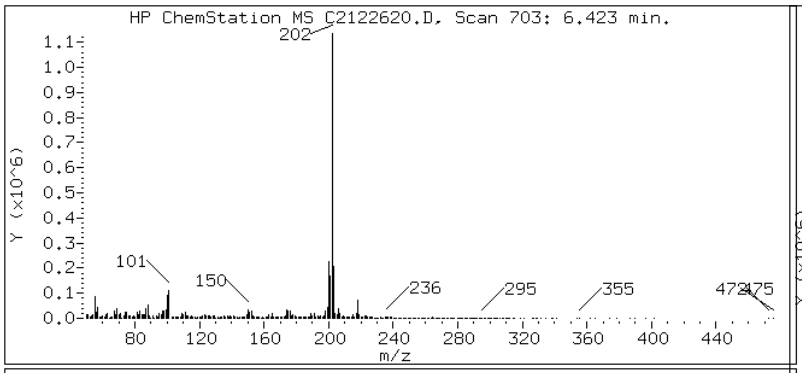
Data File: C2122620.D

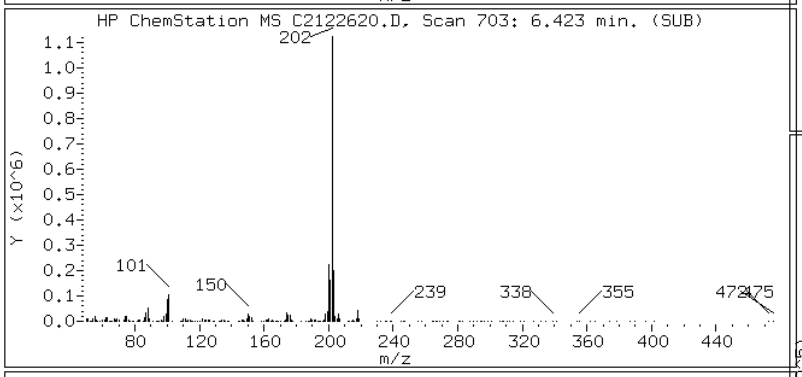
Date: 26-DEC-2012 19:05

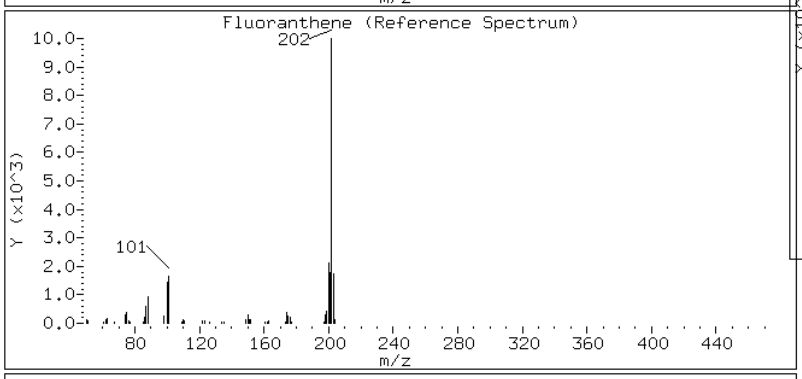
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

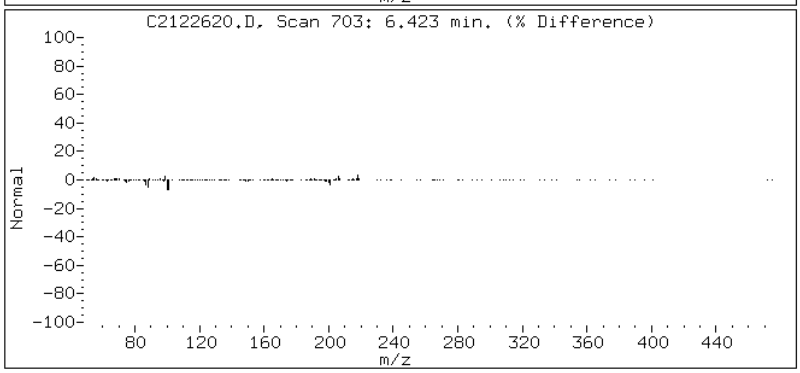
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

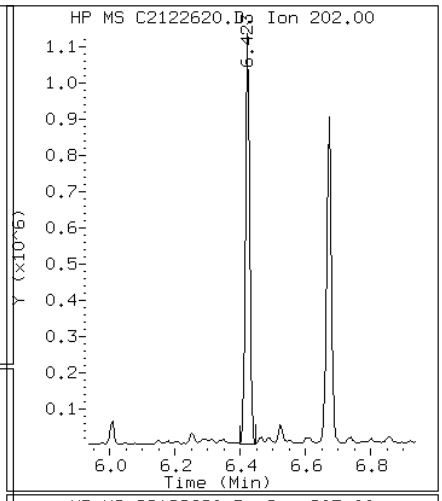
13 Fluoranthene

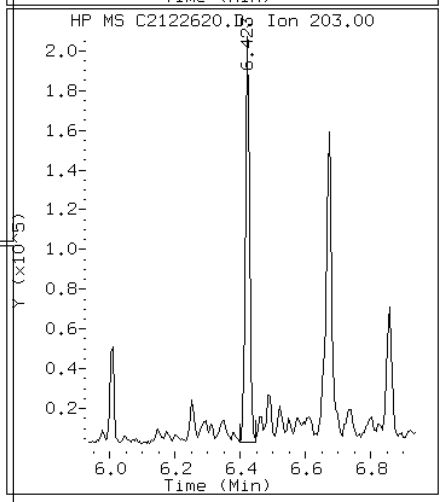












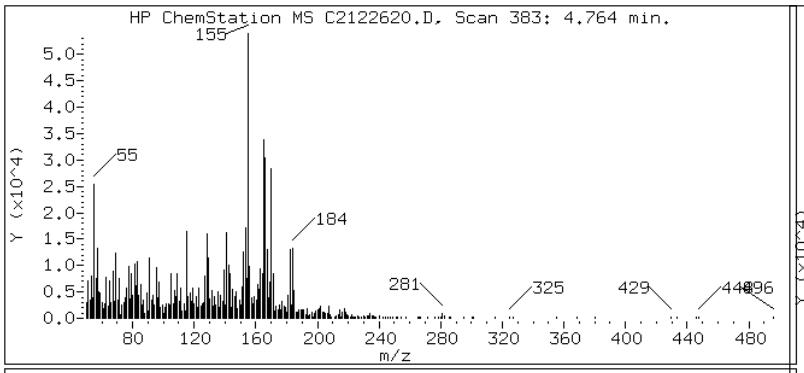
Data File: C2122620.D

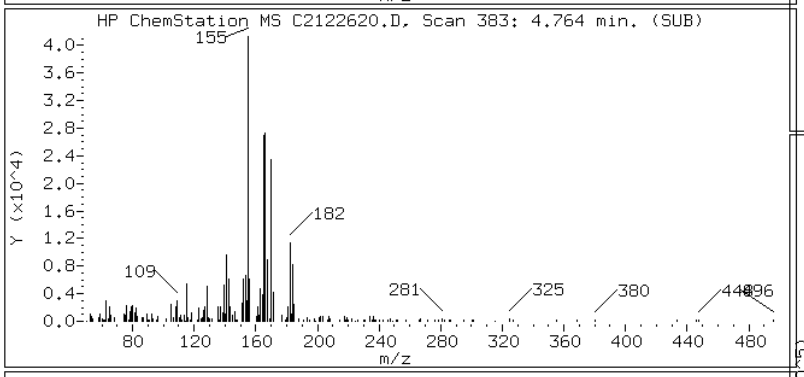
Date: 26-DEC-2012 19:05

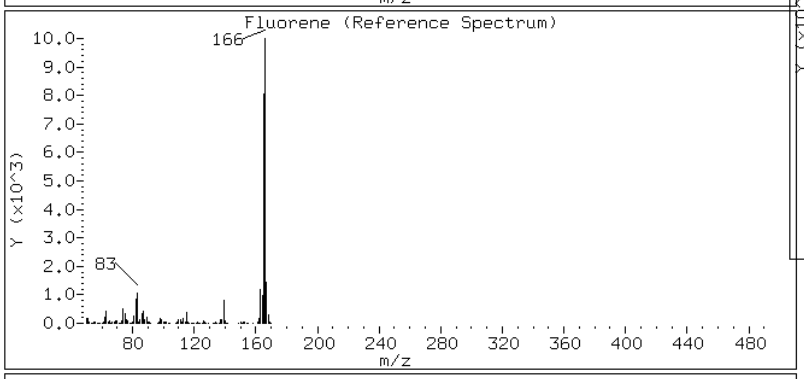
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

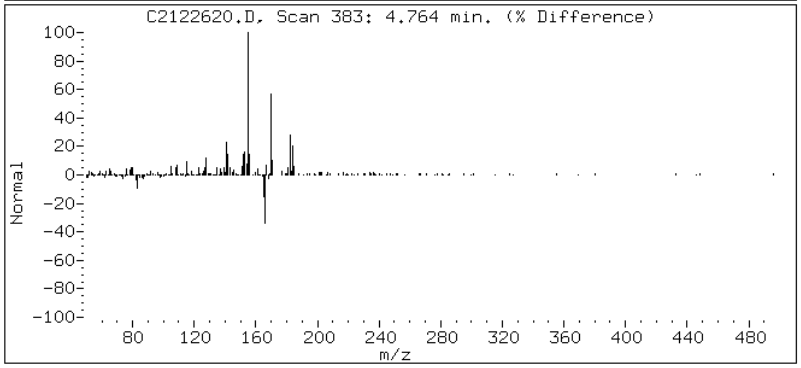
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

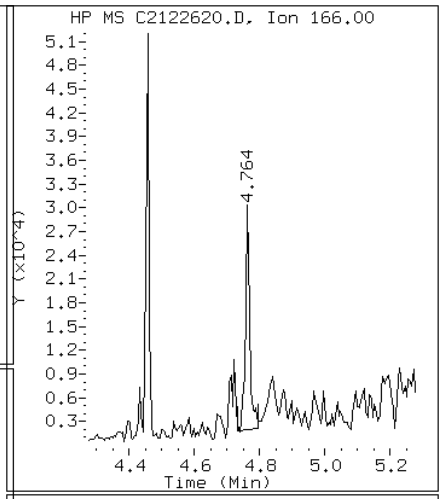
8 Fluorene

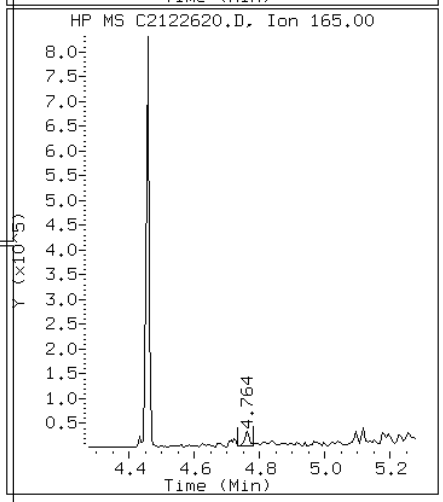












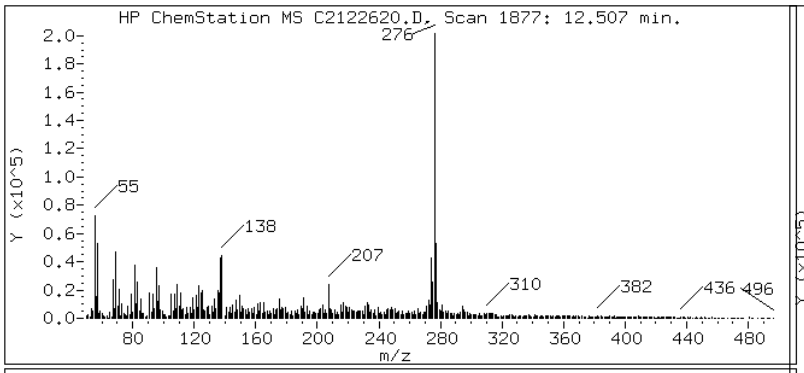
Data File: C2122620.D

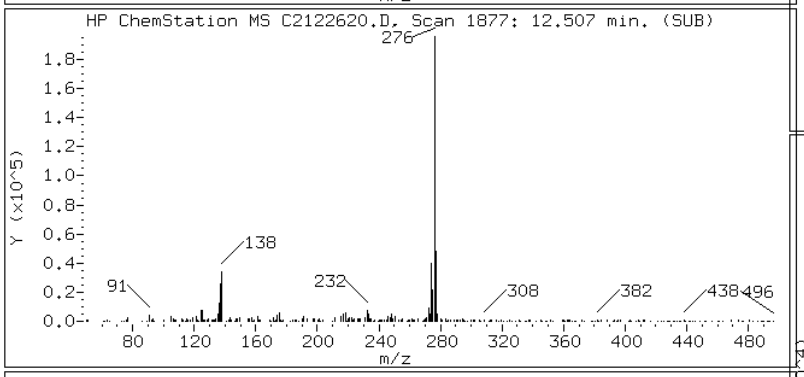
Date: 26-DEC-2012 19:05

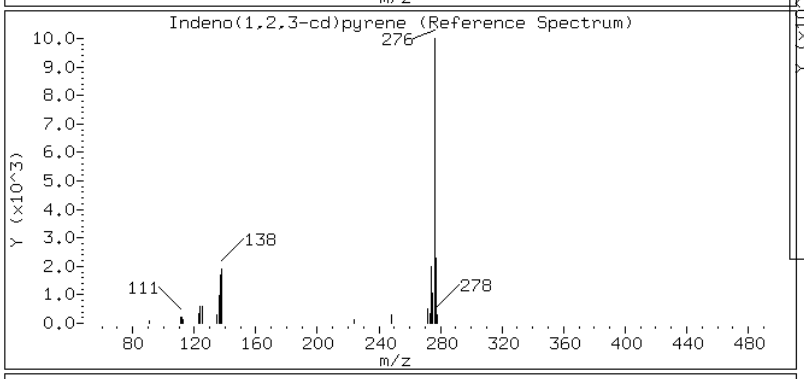
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

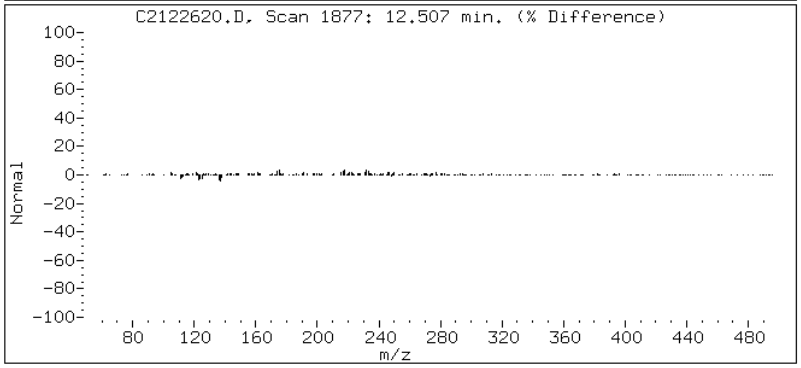
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

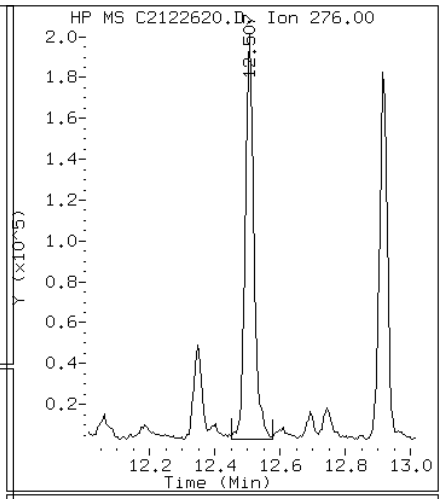
22 Indeno(1,2,3-cd)pyrene

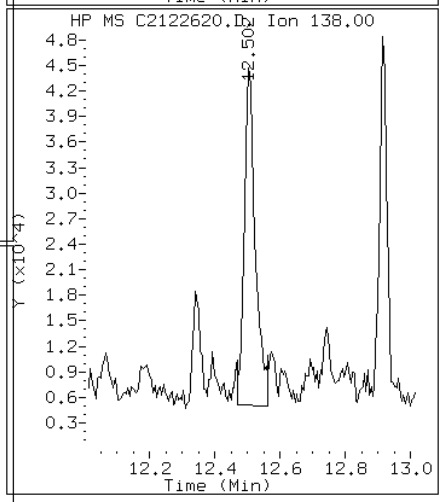












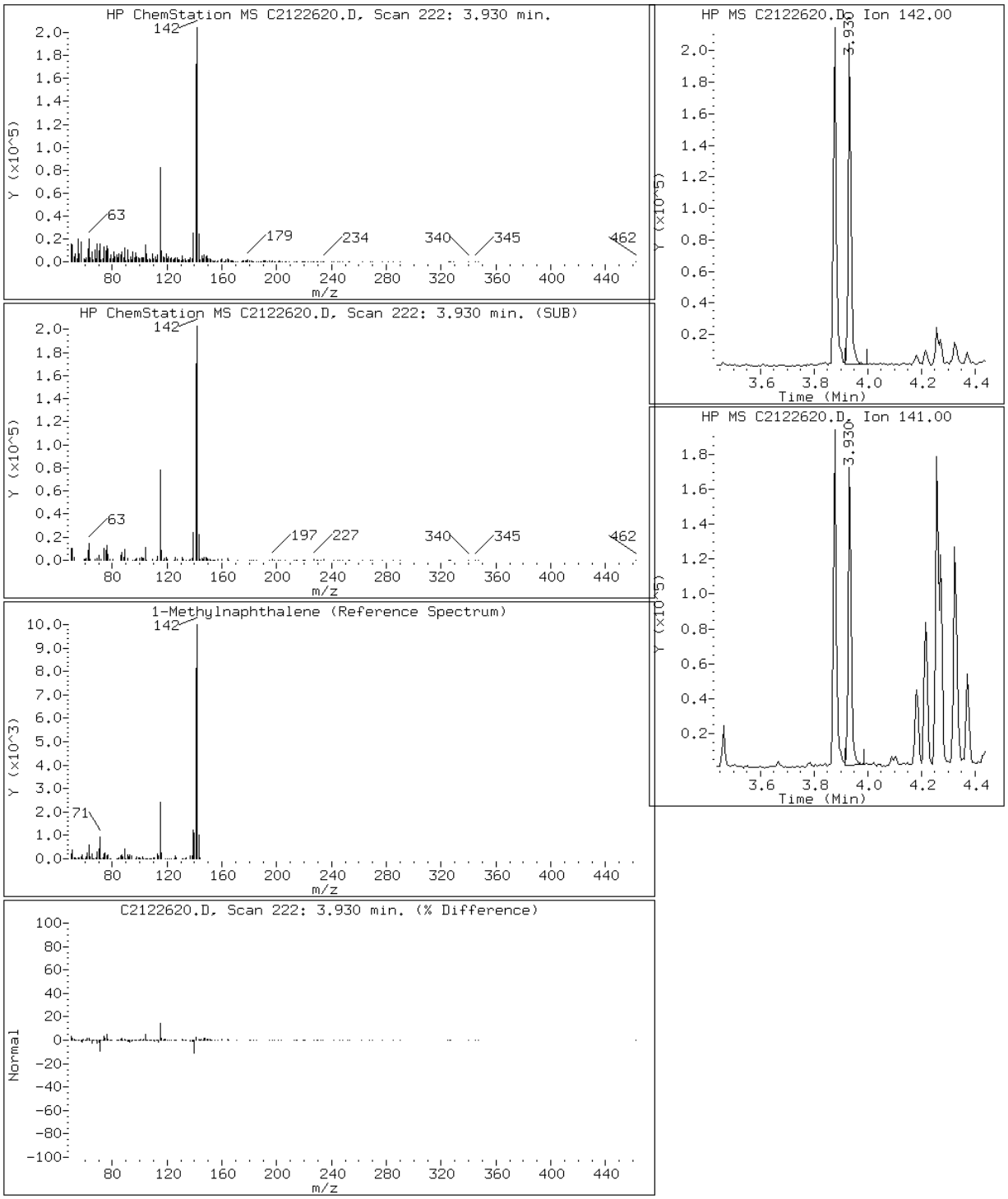
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene



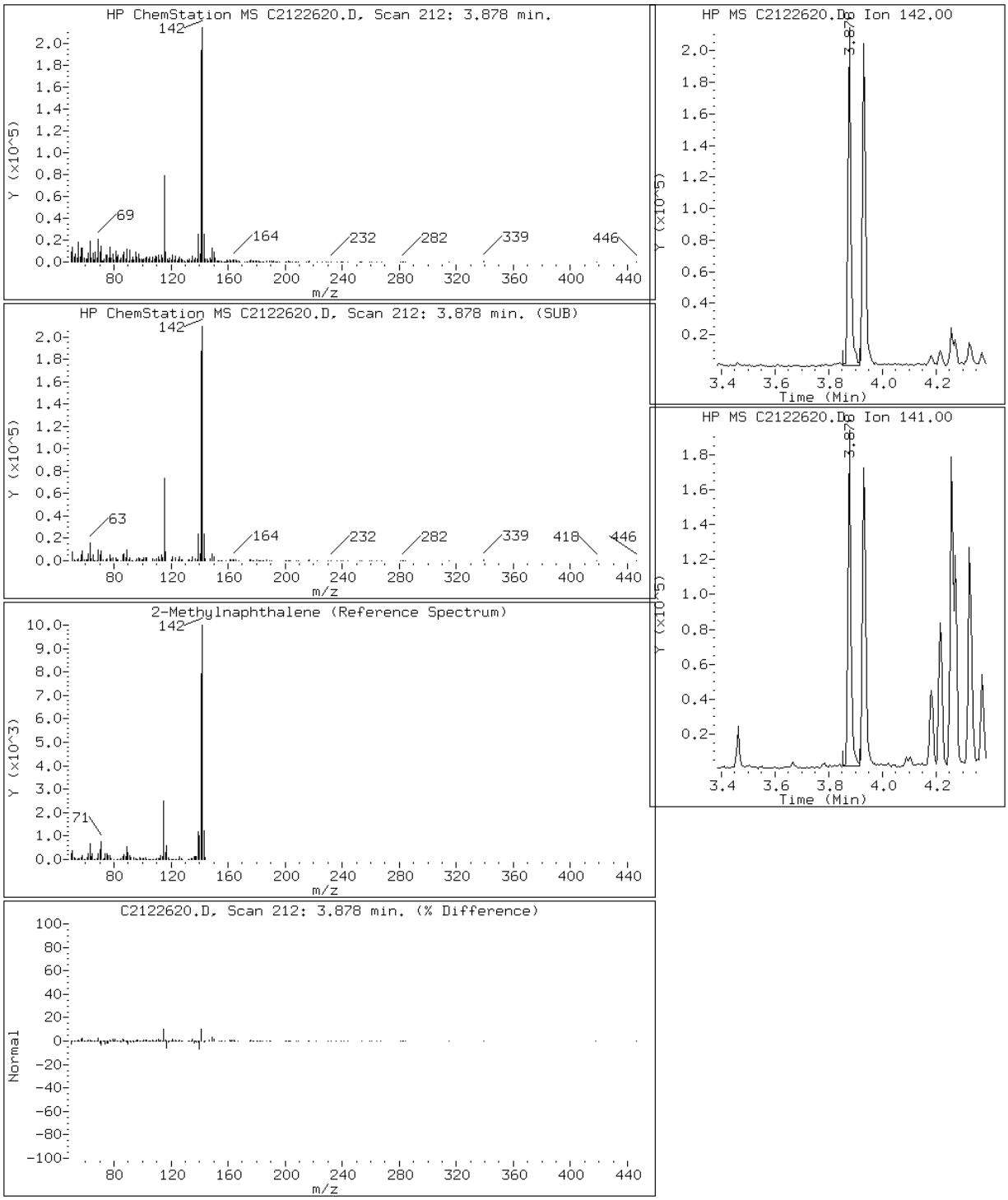
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



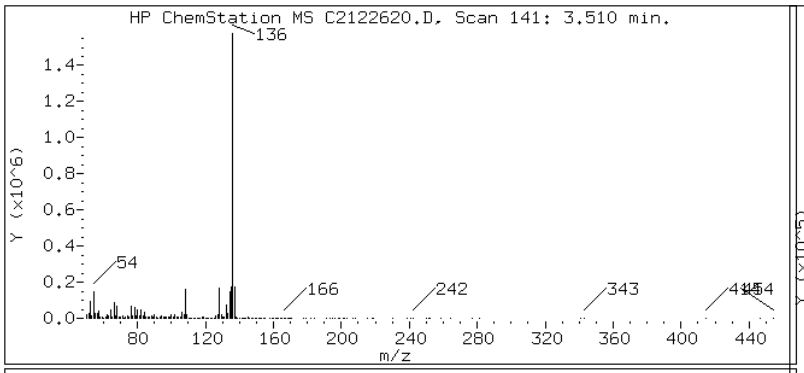
Data File: C2122620.D

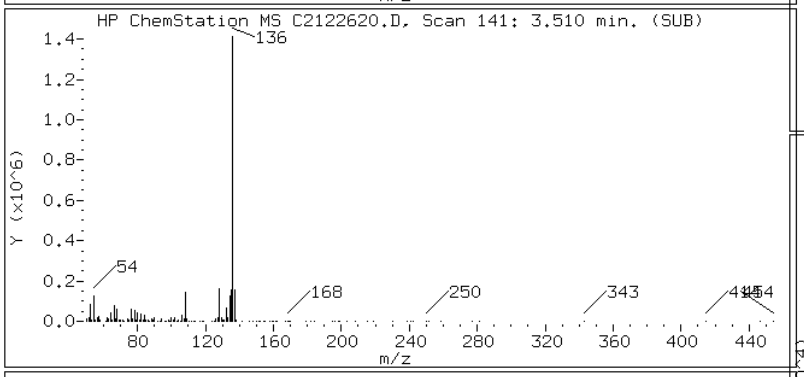
Date: 26-DEC-2012 19:05

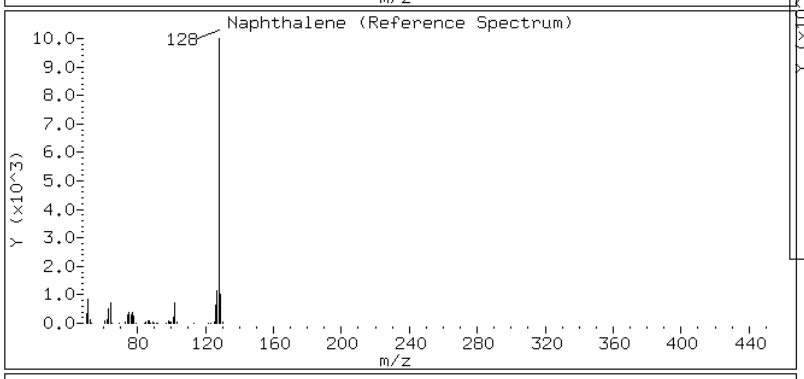
Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

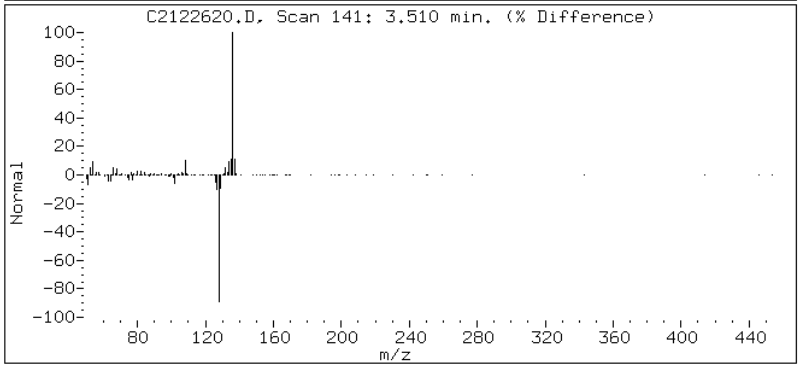
Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

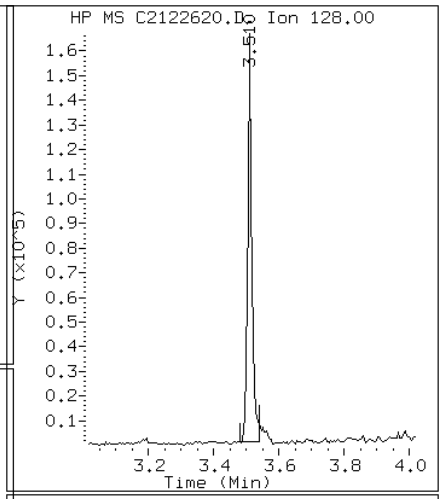
2 Naphthalene

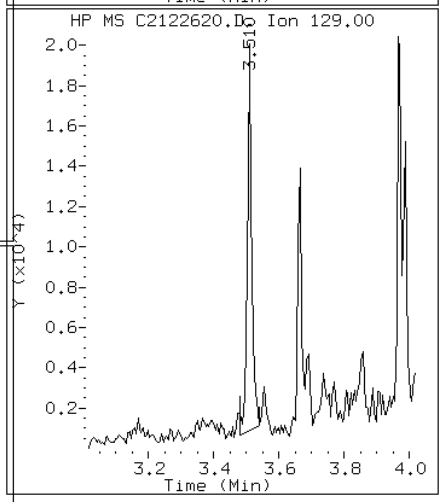












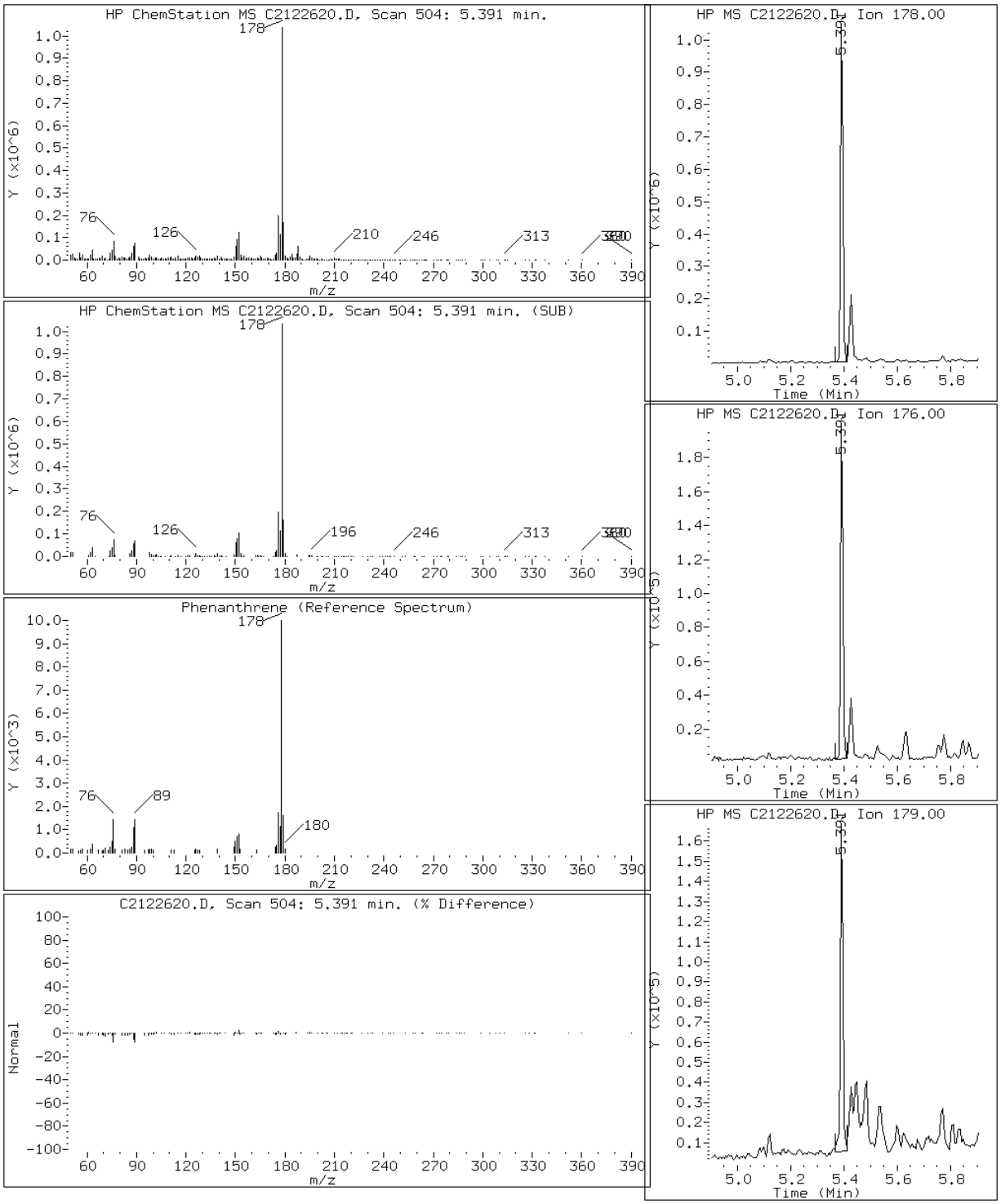
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



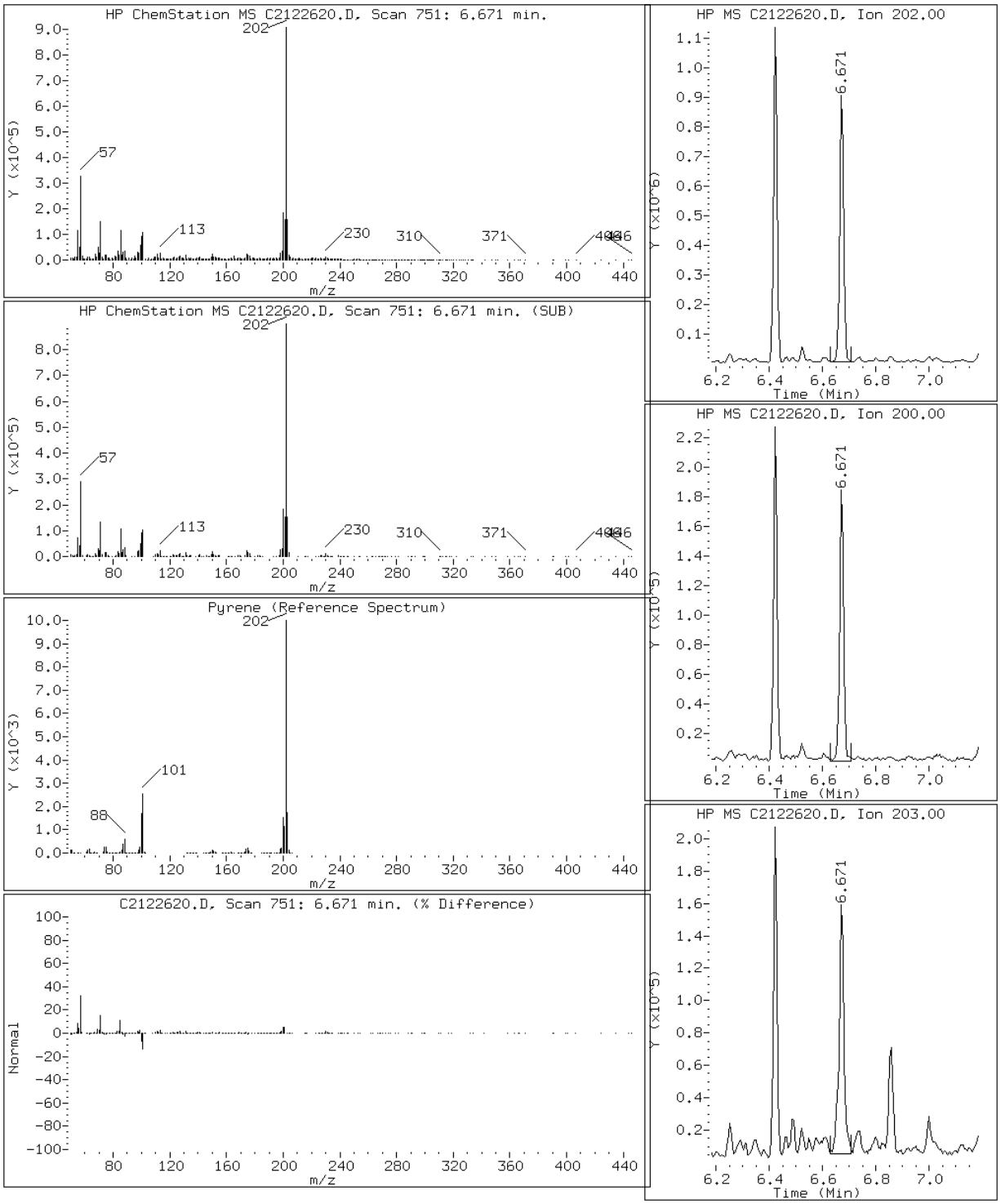
Data File: C2122620.D

Date: 26-DEC-2012 19:05

Client ID: CV0705A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-22-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122620.D
Inj. Date and Time: 26-DEC-2012 19:05
Instrument ID: TSMC5973.i
Client ID: CV0705A-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

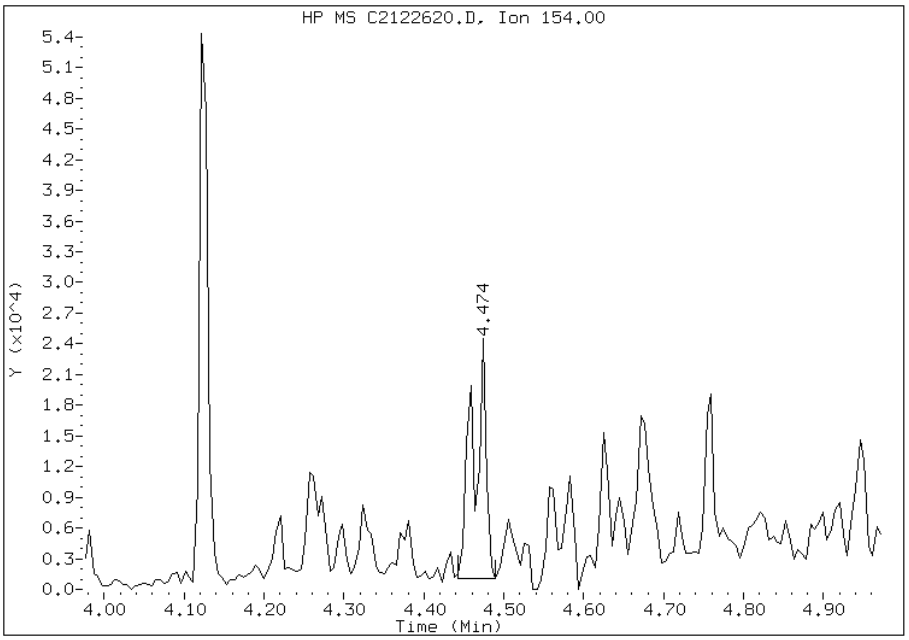
Processing Integration Results

RT: 4.47

Response: 27222

Amount: 0

Conc: 8



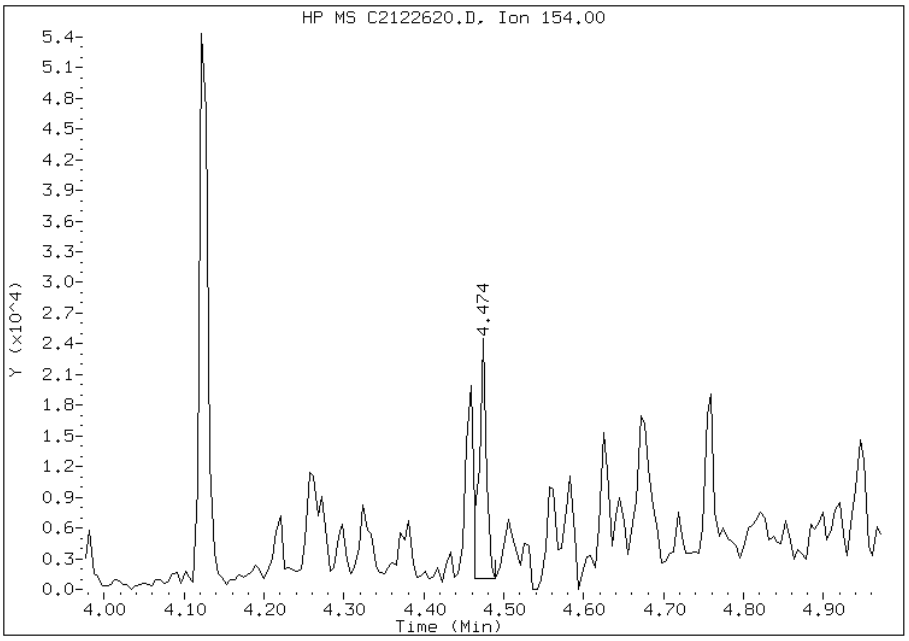
Manual Integration Results

RT: 4.47

Response: 16101

Amount: 0

Conc: 5



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0705B-CS-SP | Lab Sample ID: 680-85785-23

Matrix: Solid | Lab File ID: C2122621.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:46

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.66(g) | Date Analyzed: 12/26/2012 19:24

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 22.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.2	J	8.5	0.73
208-96-8	Acenaphthylene	27		8.5	0.67
120-12-7	Anthracene	33		8.5	0.83
56-55-3	Benzo[a]anthracene	80		8.5	0.78
50-32-8	Benzo[a]pyrene	99		8.5	0.86
205-99-2	Benzo[b]fluoranthene	190		8.5	1.2
191-24-2	Benzo[g,h,i]perylene	42		8.5	1.4
207-08-9	Benzo[k]fluoranthene	70		8.5	0.81
218-01-9	Chrysene	130		8.5	0.95
53-70-3	Dibenz(a,h)anthracene	17		8.5	0.82
206-44-0	Fluoranthene	120		8.5	0.76
86-73-7	Fluorene	4.5	J	8.5	0.66
193-39-5	Indeno[1,2,3-cd]pyrene	54		8.5	1.4
90-12-0	1-Methylnaphthalene	30		8.5	0.67
91-57-6	2-Methylnaphthalene	33		8.5	0.66
91-20-3	Naphthalene	27		8.5	0.66
85-01-8	Phenanthrene	82		8.5	0.56
129-00-0	Pyrene	98		8.5	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	83		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122621.D
Lab Smp Id: 680-85785-A-23-A Client Smp ID: CV0705B-CS-SP
Inj Date : 26-DEC-2012 19:24
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-23-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.660	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.941)	175623	2.27520	74	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	7173648	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	112129	0.63960	21	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	103548	0.77831	25	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	94359	0.72304	24	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	4024064	40.0000		
6 Acenaphthylene	152	4.376	4.381	(0.981)	137570	0.63621	21	
7 Acenaphthene	154	4.474	4.479	(1.003)	5830	0.05153	1.7(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	16269	0.10773	3.5(aQ)	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6523877	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	356838	1.94200	63	
11 Anthracene	178	5.427	5.438	(1.010)	156033	0.78632	26	
$ 12 o-Terphenyl	230	5.635	5.640	(1.048)	395283	3.32217	110	
13 Fluoranthene	202	6.422	6.433	(1.195)	682159	2.80361	91	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7733574	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	673887	2.32588	76	
16 Benzo(a)anthracene	228	8.304	8.309	(0.996)	510248	1.89752	62	
17 Chrysene	228	8.361	8.371	(1.003)	720568	3.13919	100	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	7931396	40.0000		
19 Benzo(b)fluoranthene	252	10.097	10.102	(0.937)	1154620	4.56979	150	
20 Benzo(k)fluoranthene	252	10.138	10.154	(0.940)	407521	1.65412	54	
21 Benzo(a)pyrene	252	10.646	10.656	(0.988)	531701	2.35821	77	
22 Indeno(1,2,3-cd)pyrene	276	12.496	12.512	(1.159)	308167	1.28653	42	
23 Dibenzo(a,h)anthracene	278	12.527	12.548	(1.162)	97759	0.41061	13(M)	SP
24 Benzo(g,h,i)perylene	276	12.905	12.921	(1.197)	236410	0.98938	32	

QC Flag Legend

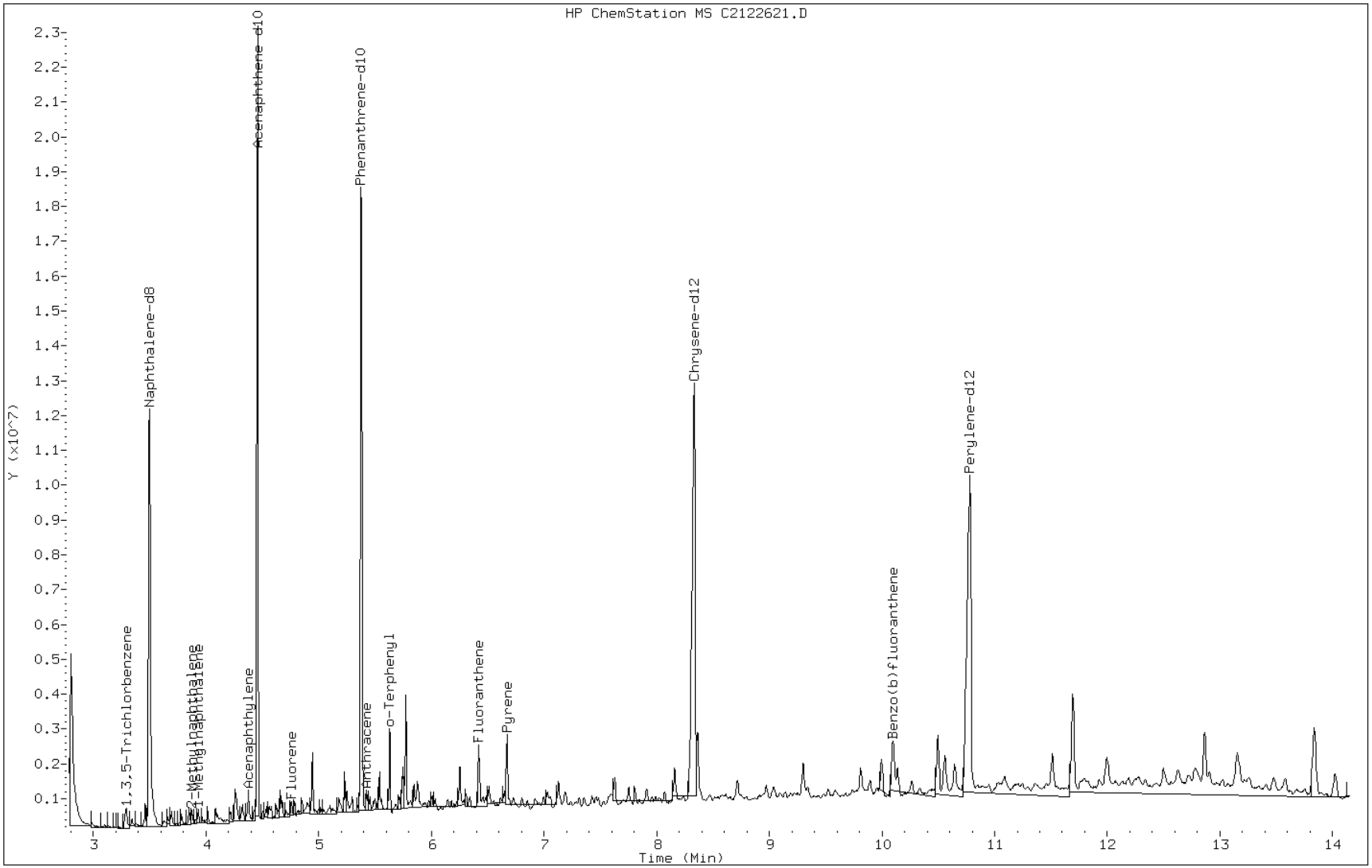
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW



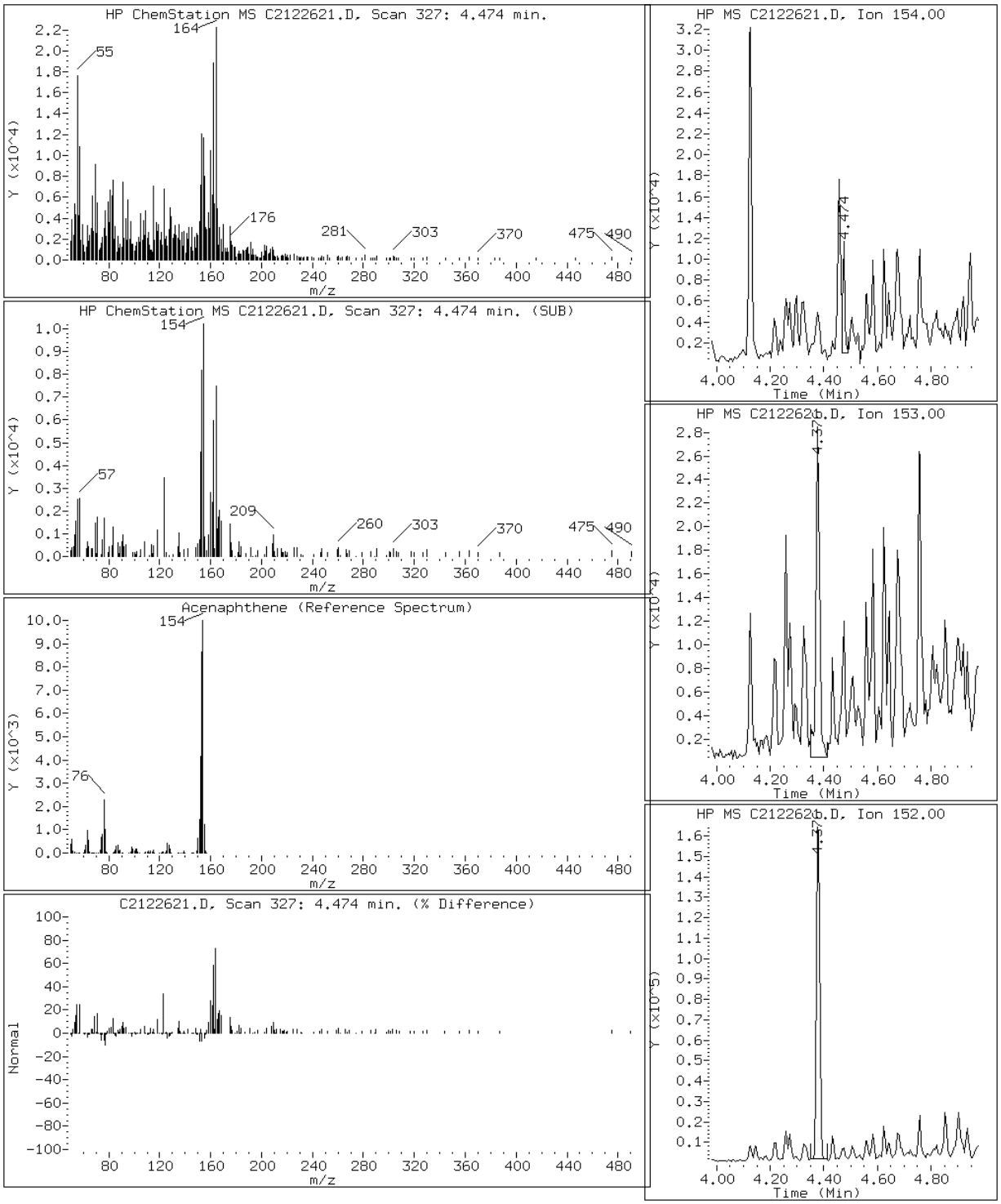
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



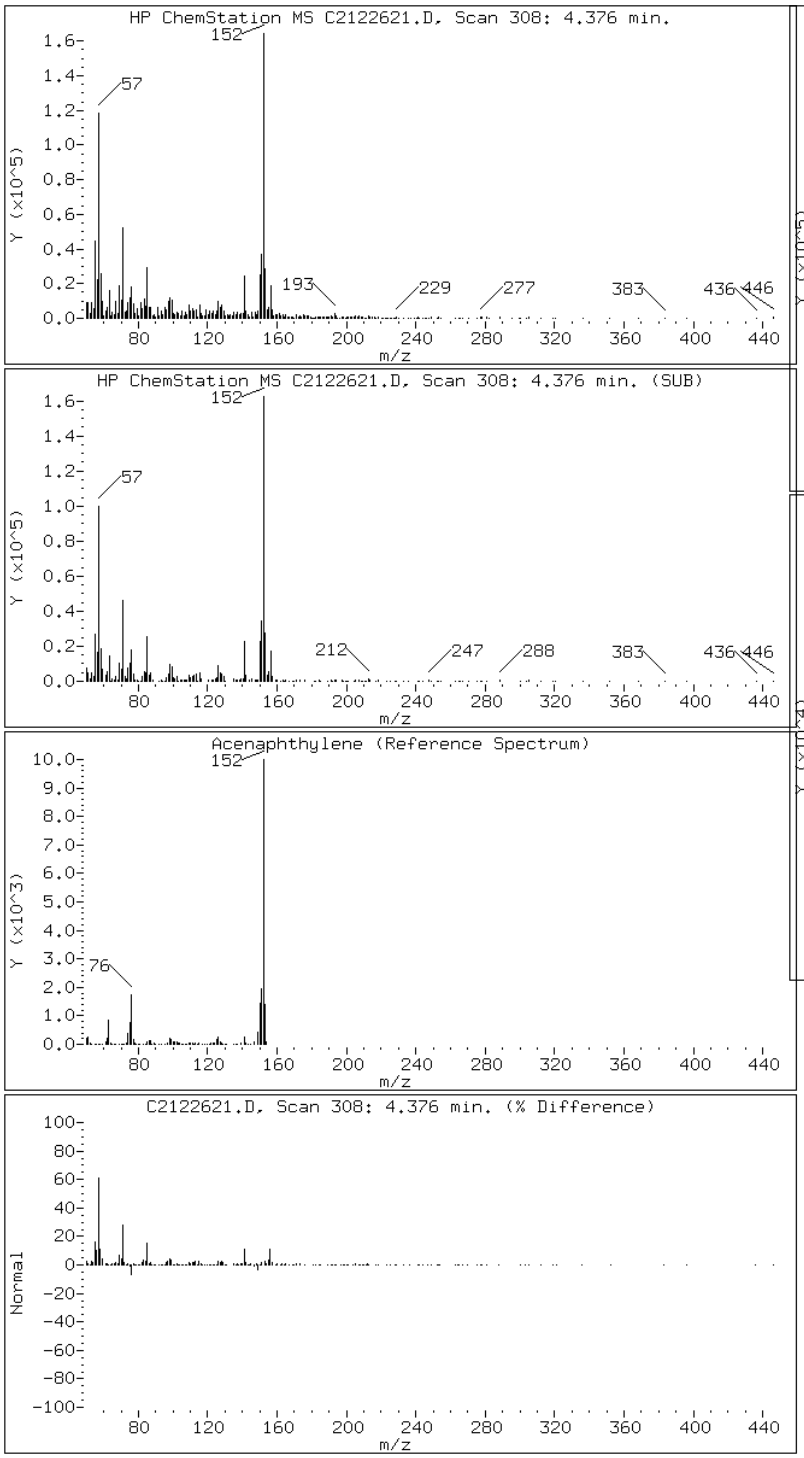
Data File: C2122621.D

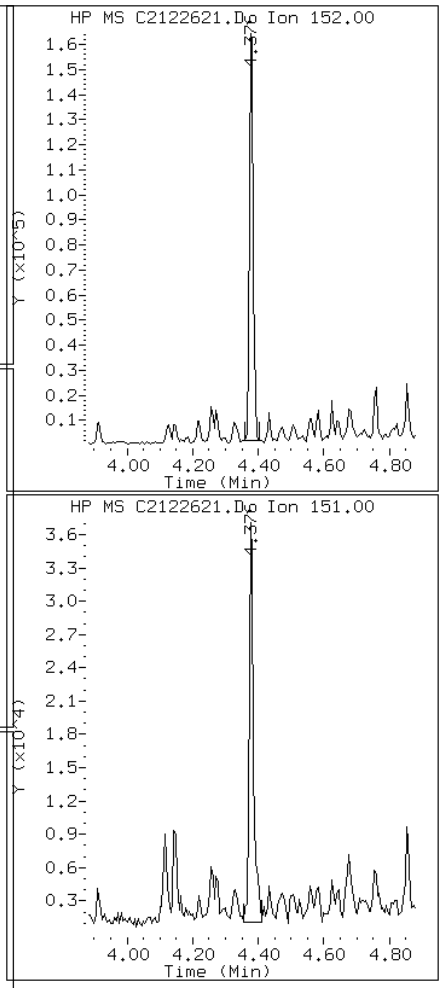
Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

6 Acenaphthylene





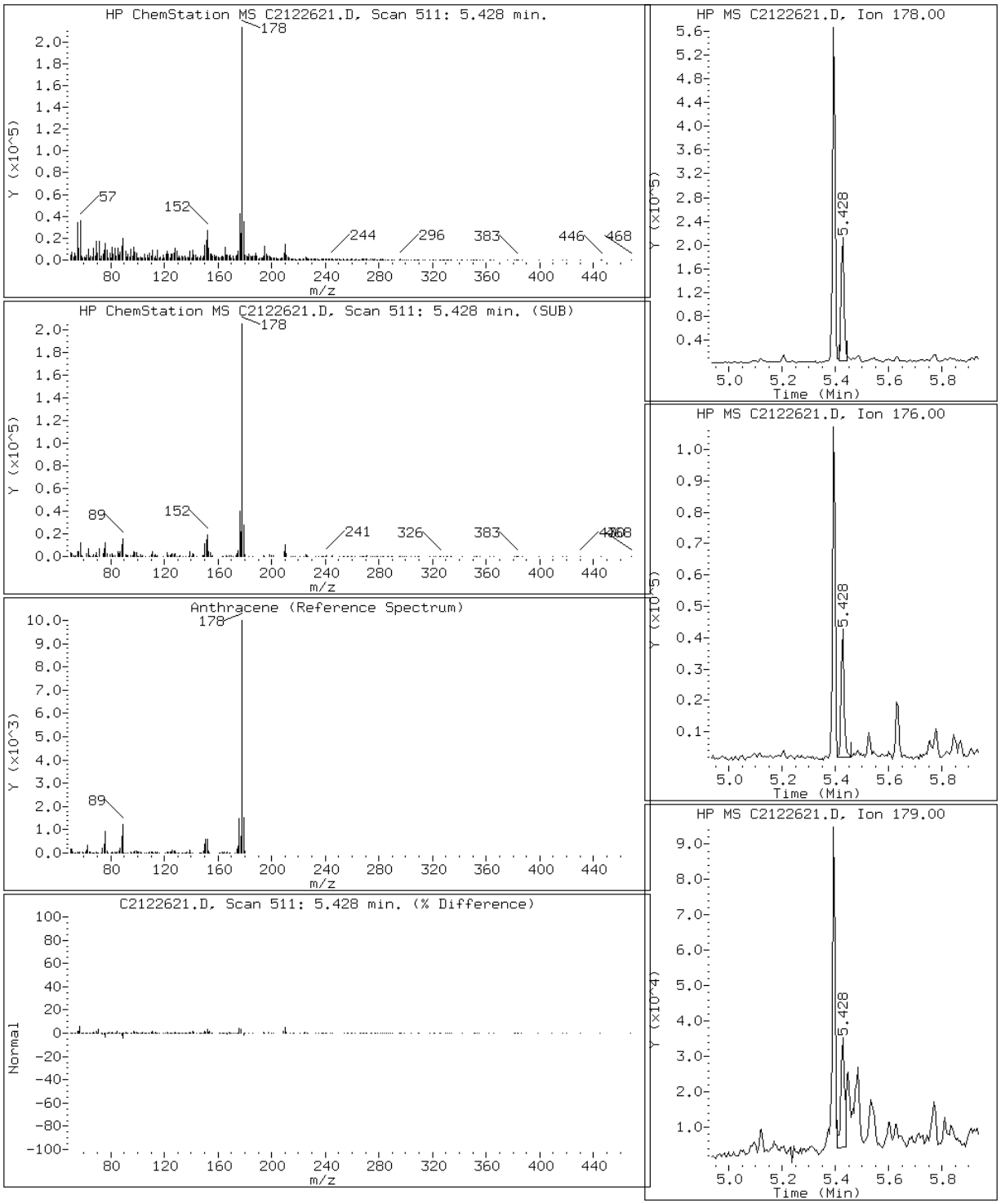
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

11 Anthracene



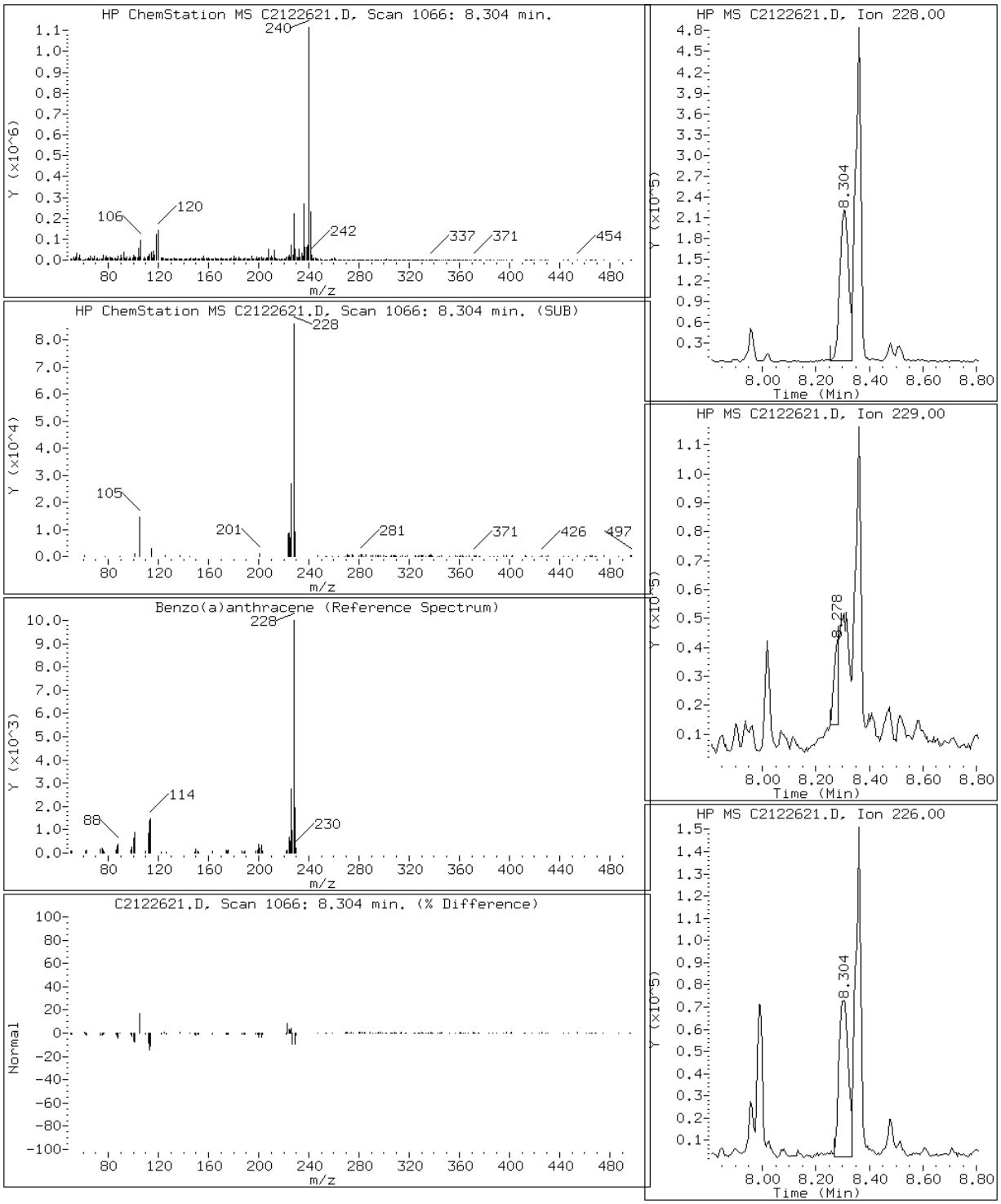
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



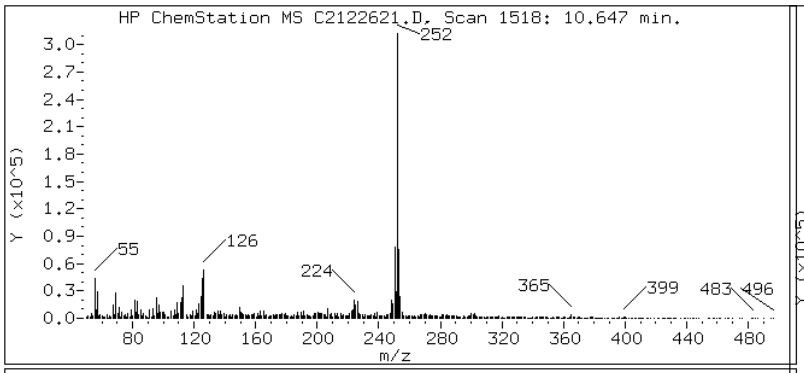
Data File: C2122621.D

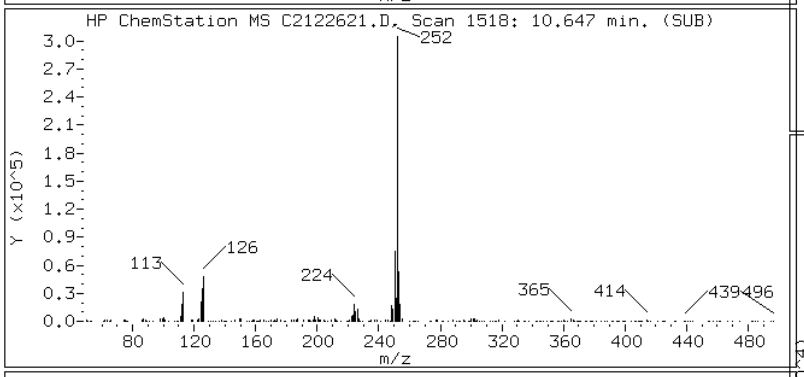
Date: 26-DEC-2012 19:24

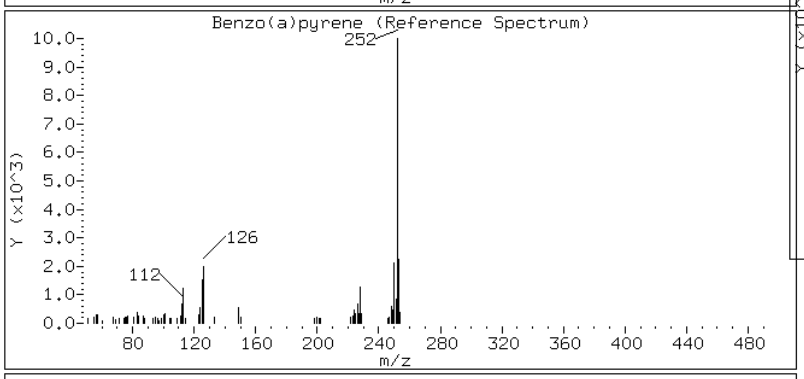
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

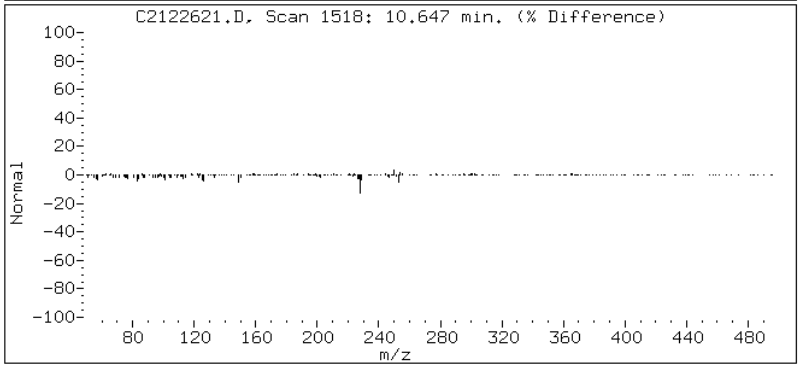
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

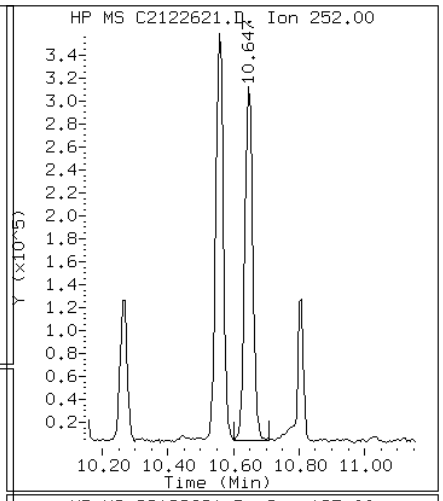
21 Benzo(a)pyrene

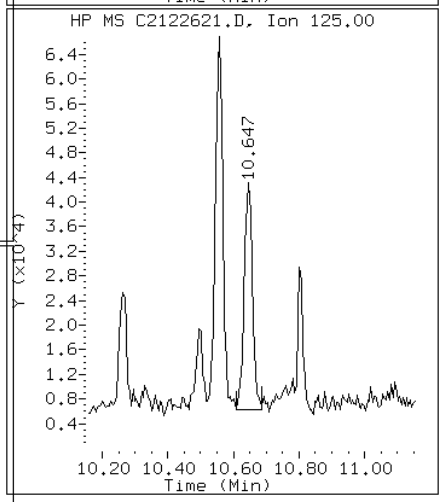












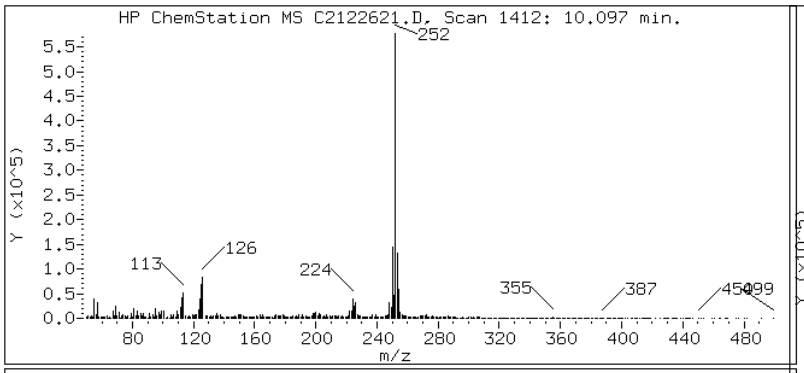
Data File: C2122621.D

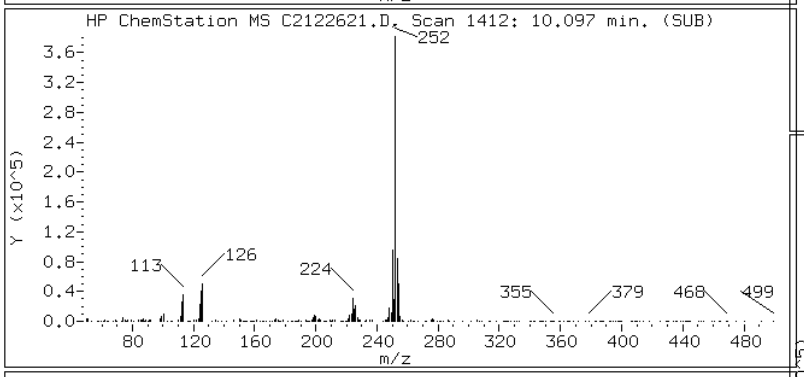
Date: 26-DEC-2012 19:24

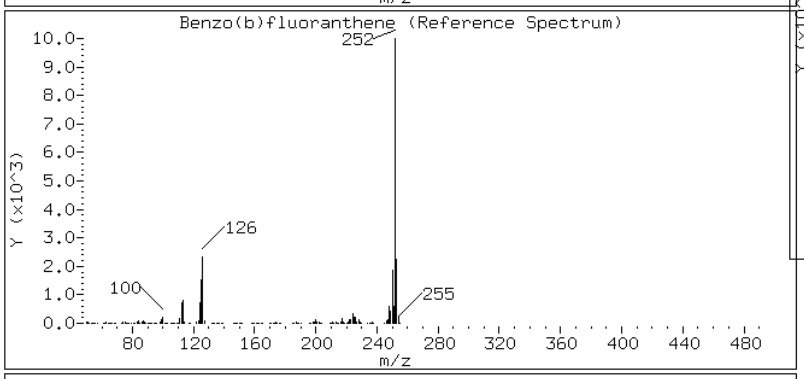
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

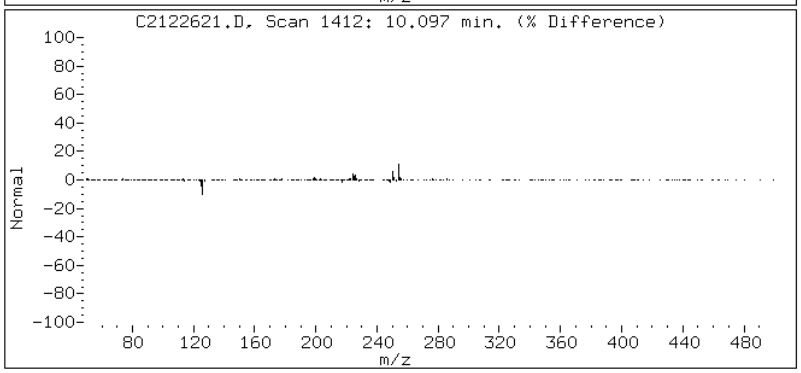
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

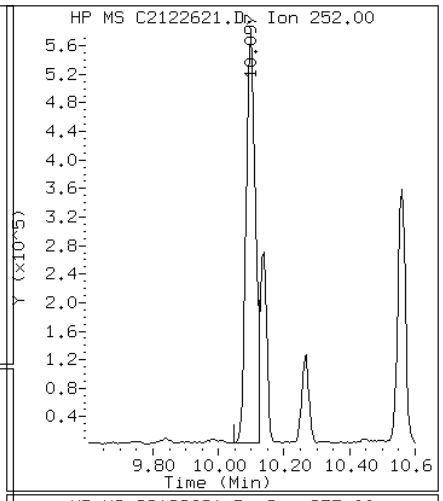
19 Benzo(b)fluoranthene

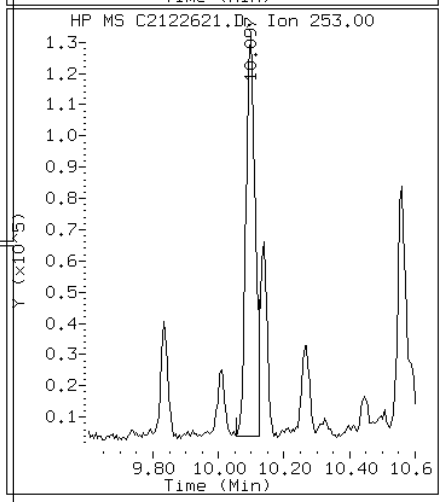












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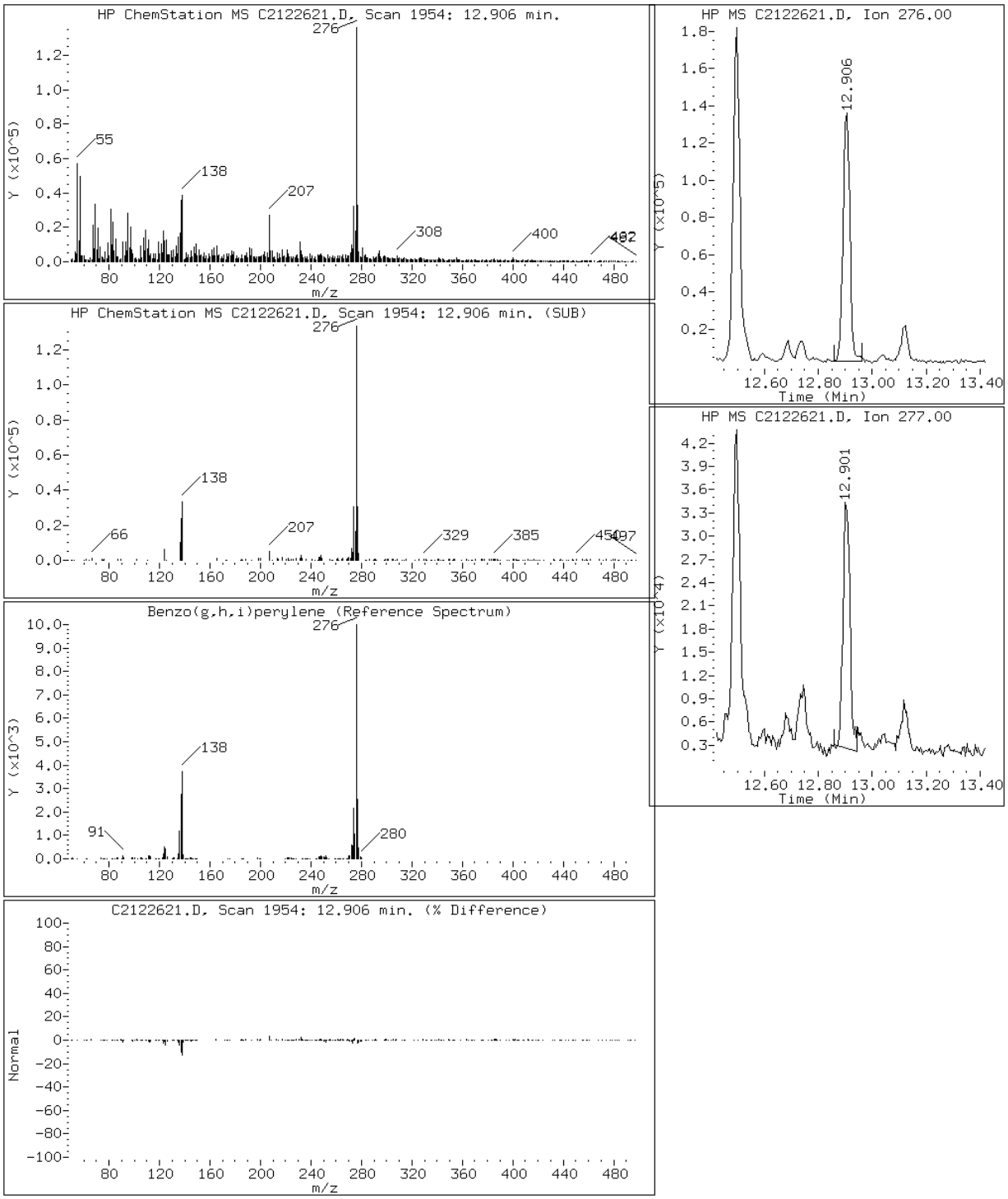
Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



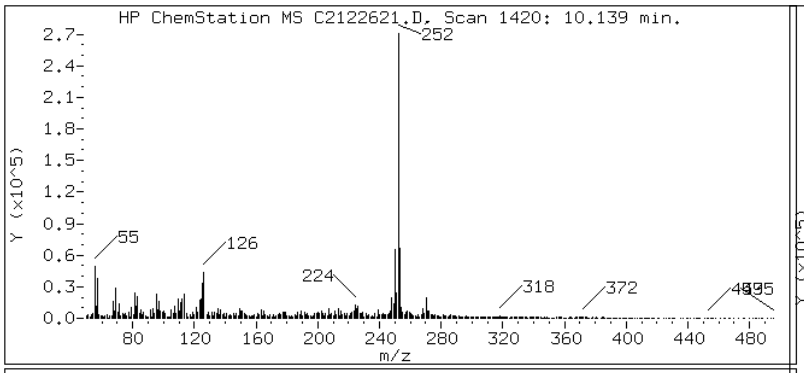
Data File: C2122621.D

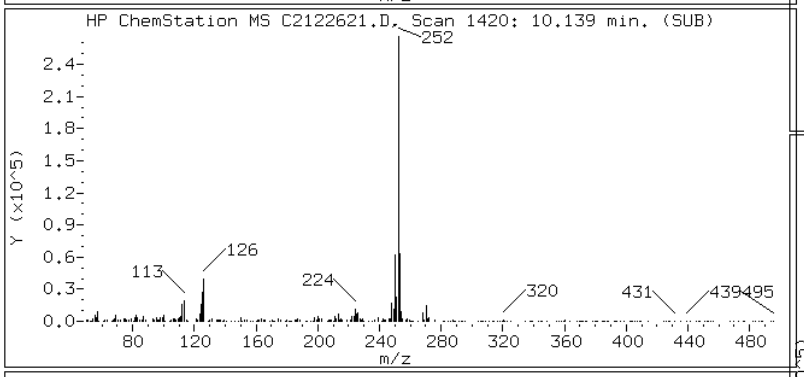
Date: 26-DEC-2012 19:24

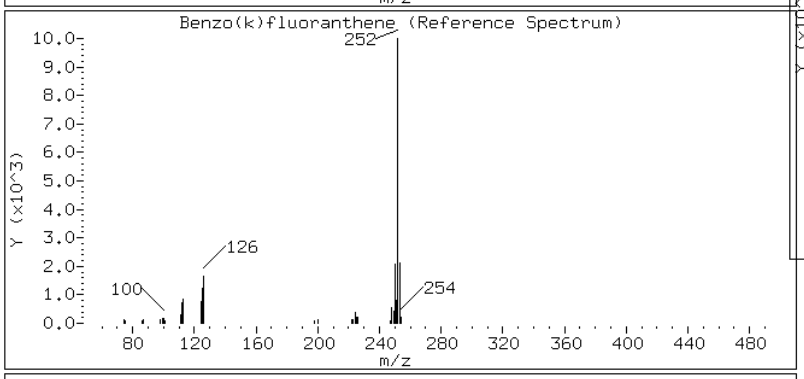
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

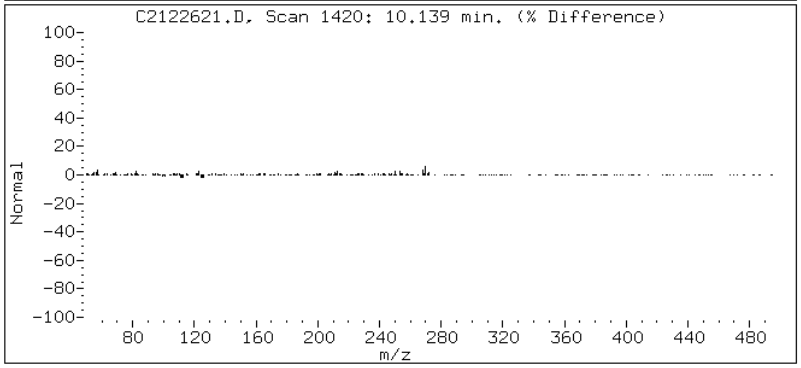
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

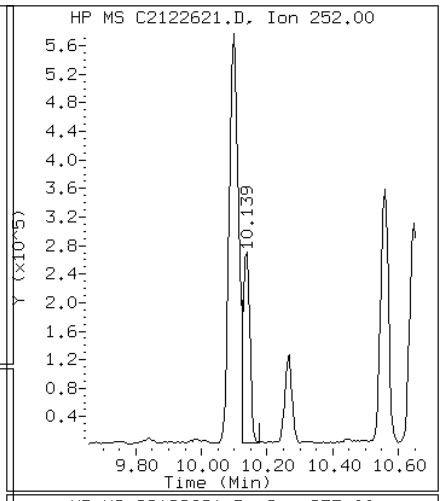
20 Benzo(k)fluoranthene

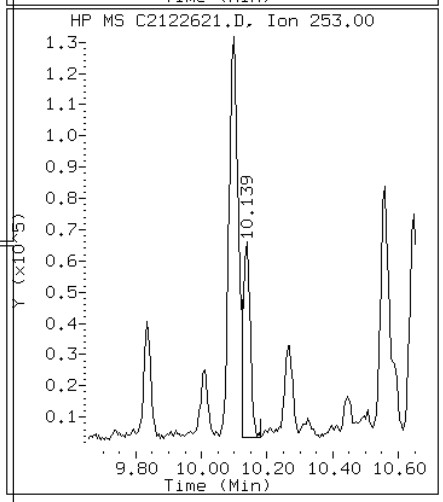












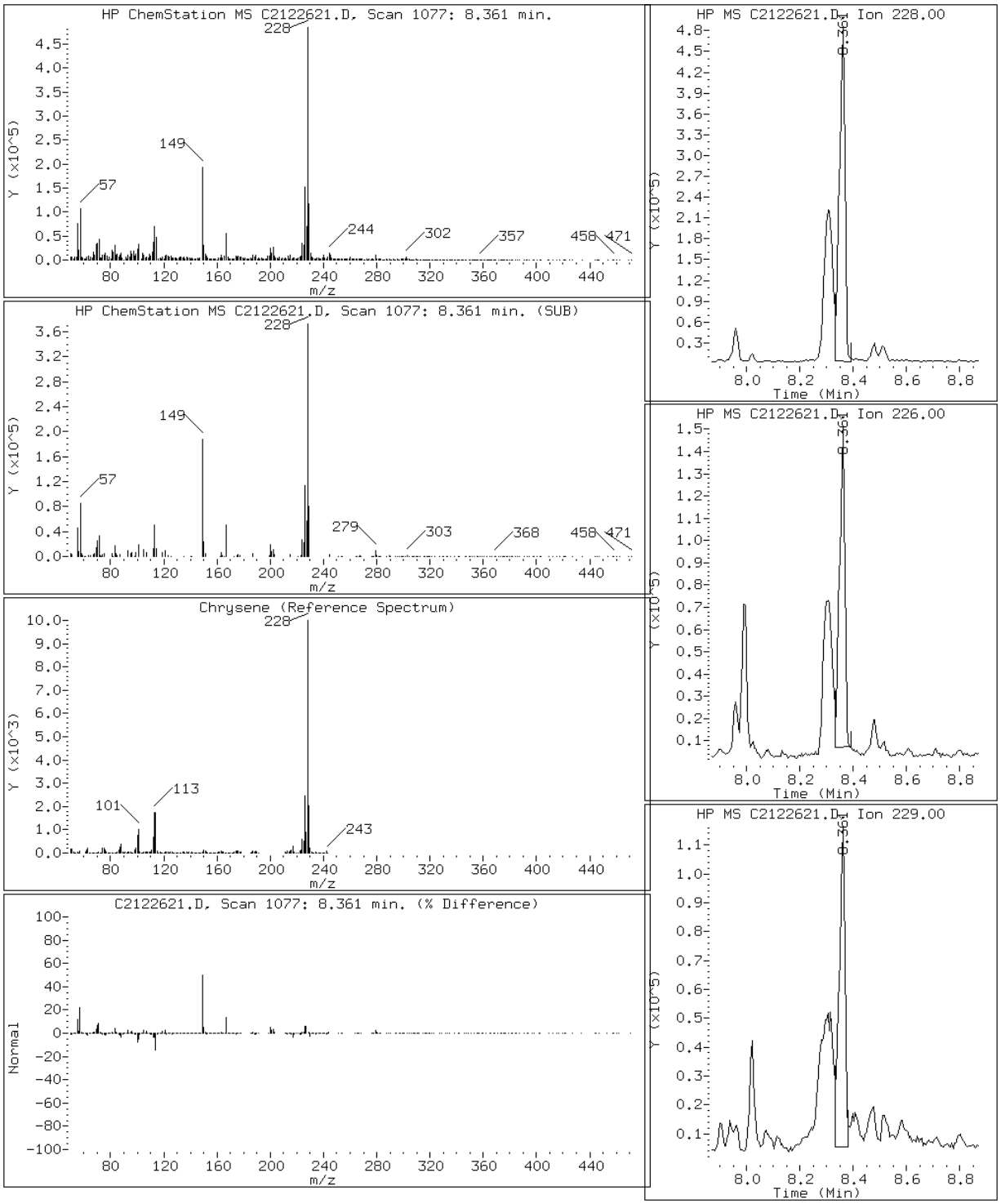
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

17 Chrysene



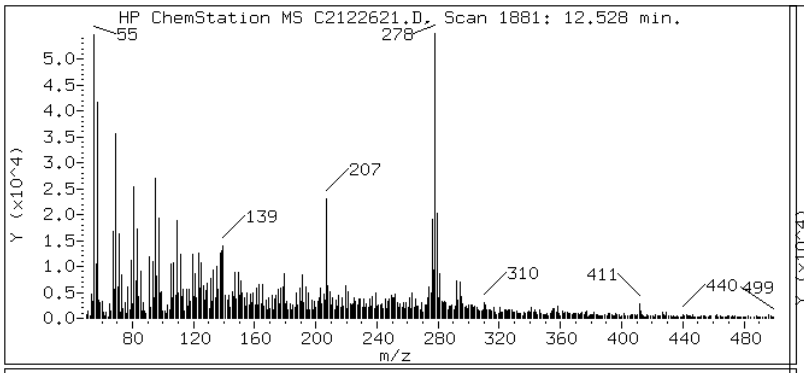
Data File: C2122621.D

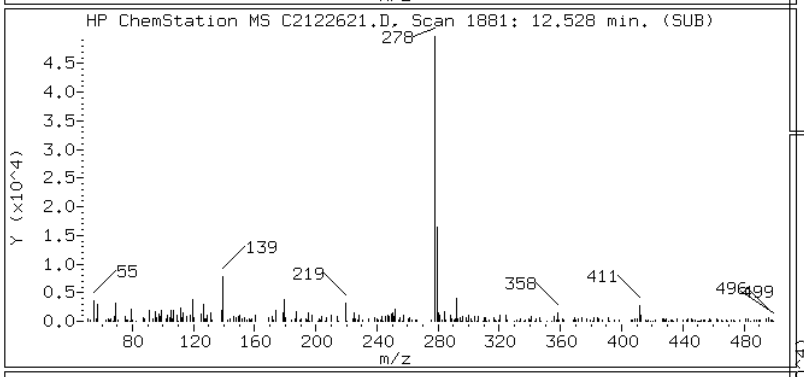
Date: 26-DEC-2012 19:24

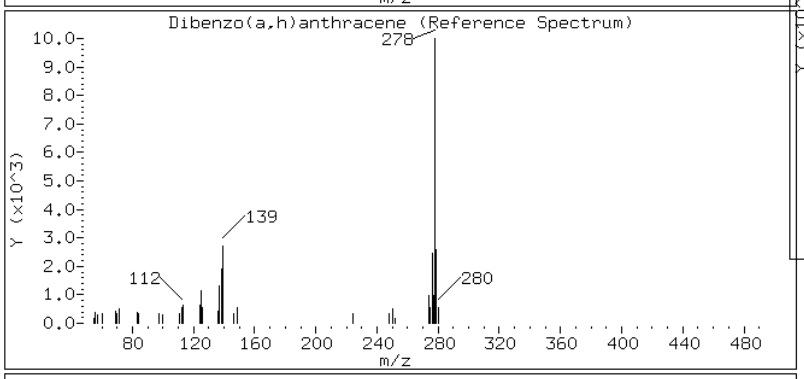
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

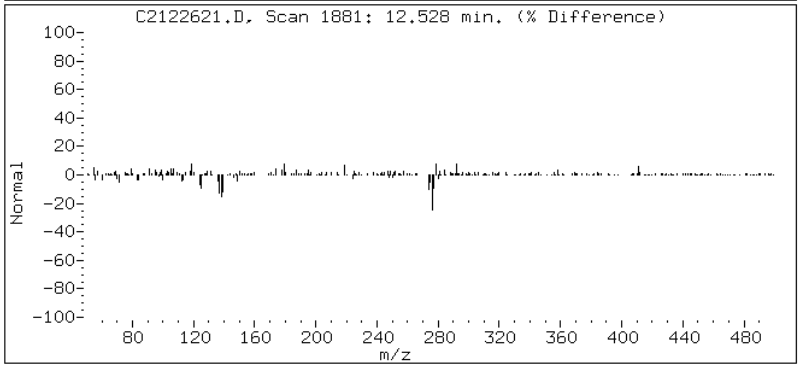
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

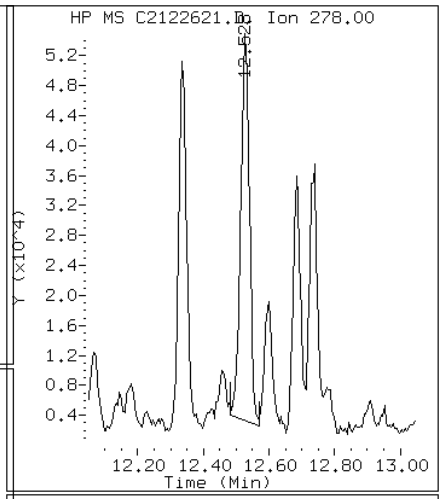
23 Dibenzo(a,h)anthracene

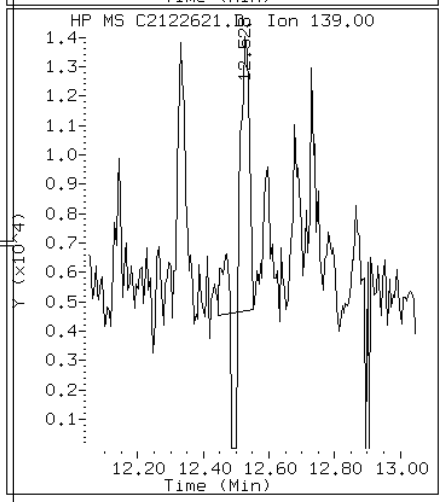












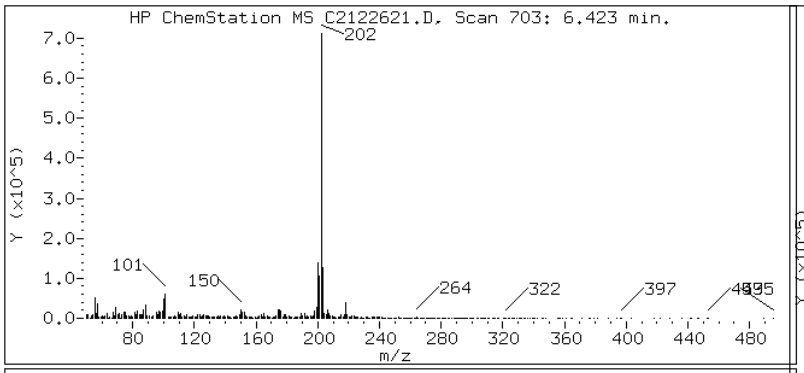
Data File: C2122621.D

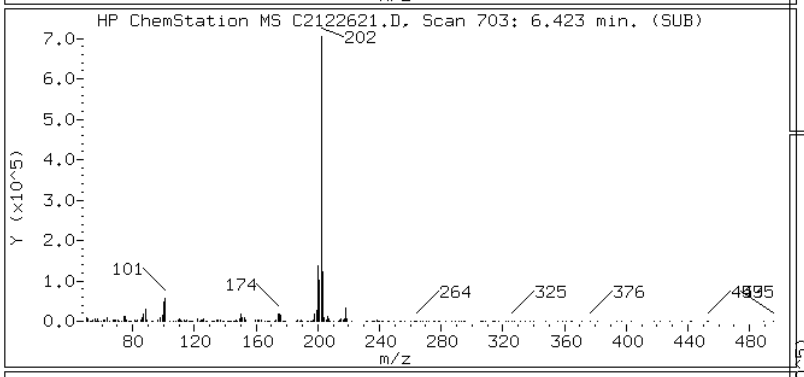
Date: 26-DEC-2012 19:24

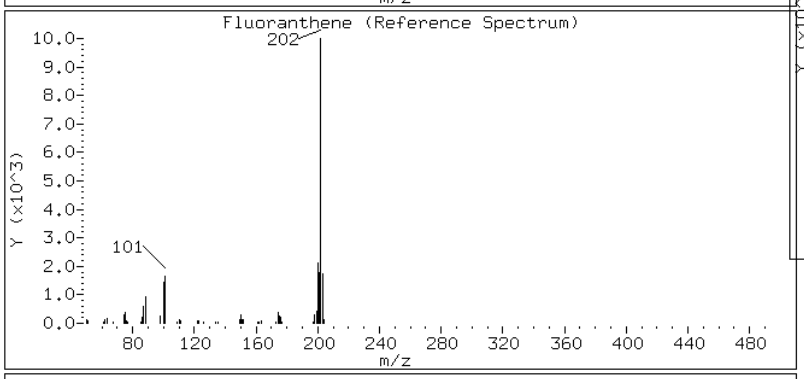
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

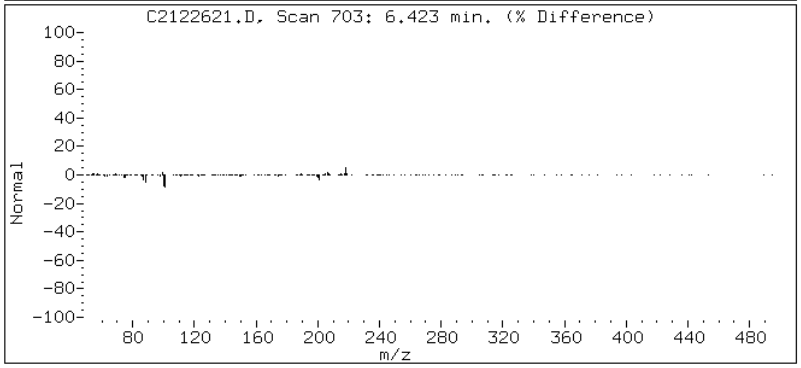
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

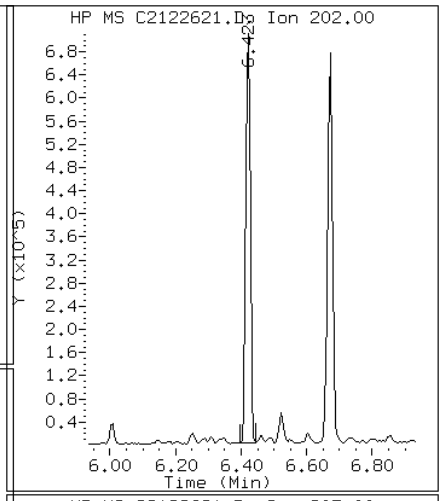
13 Fluoranthene

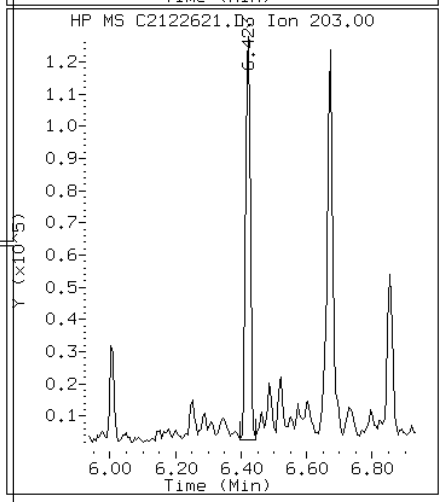












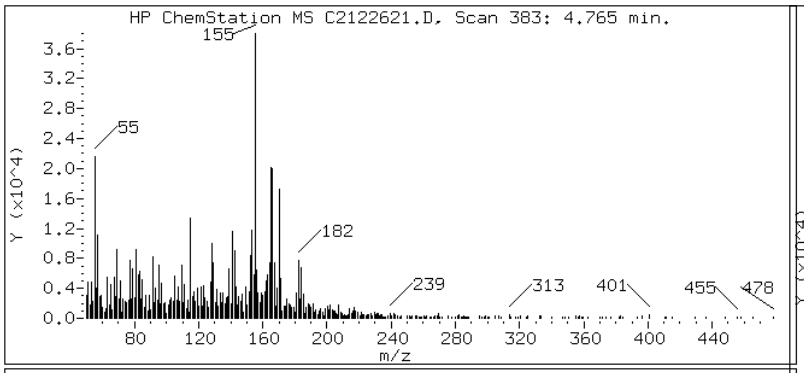
Data File: C2122621.D

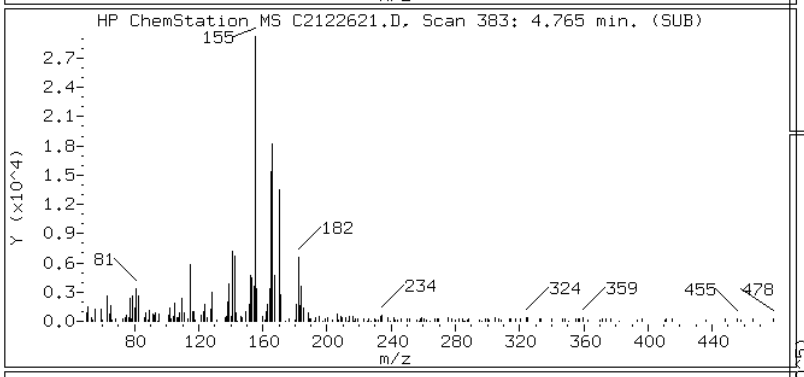
Date: 26-DEC-2012 19:24

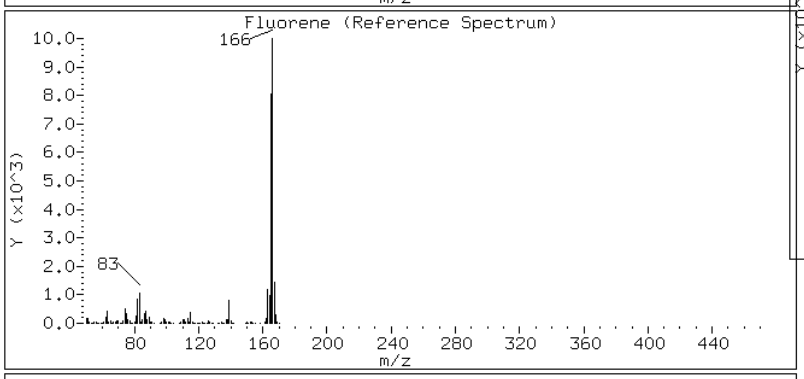
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

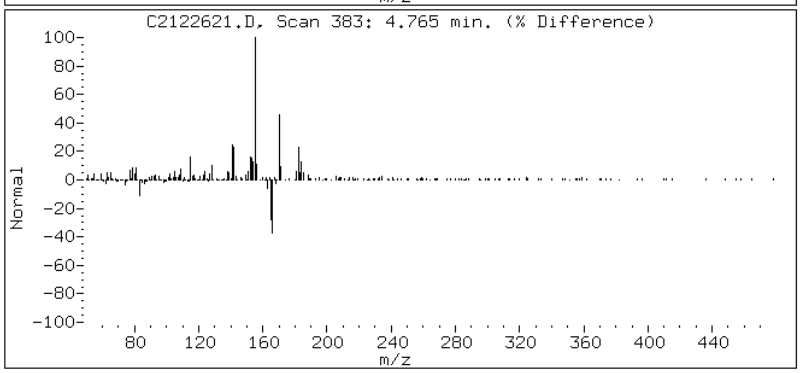
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

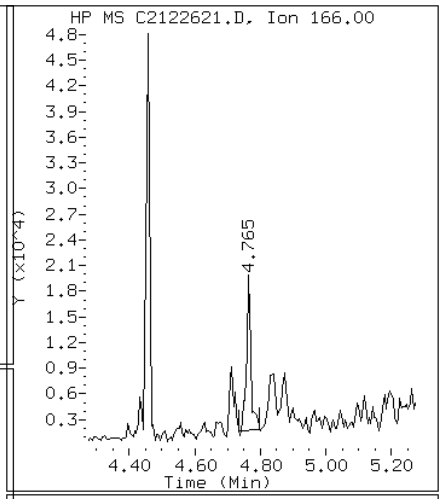
8 Fluorene

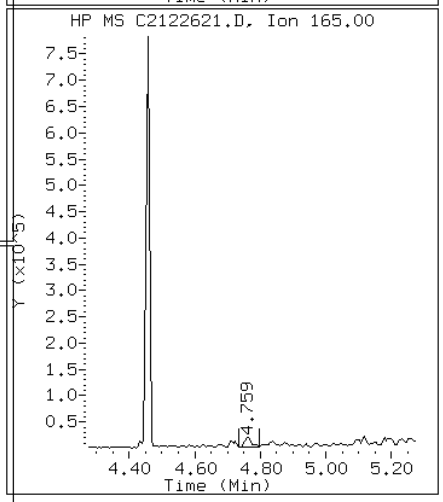












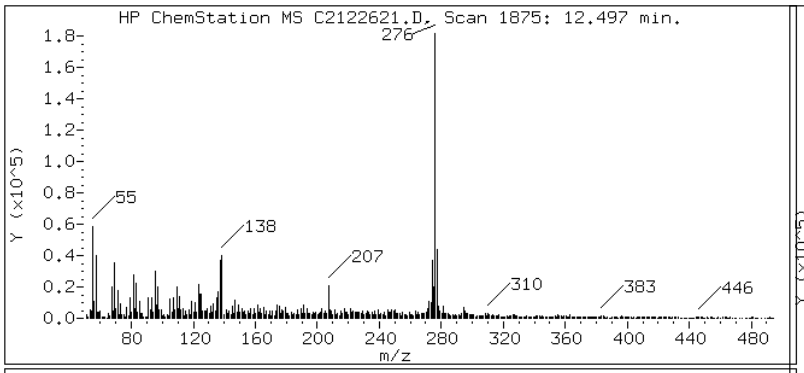
Data File: C2122621.D

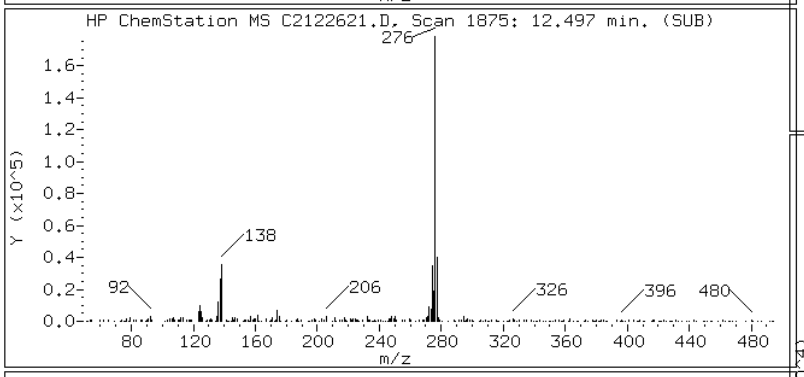
Date: 26-DEC-2012 19:24

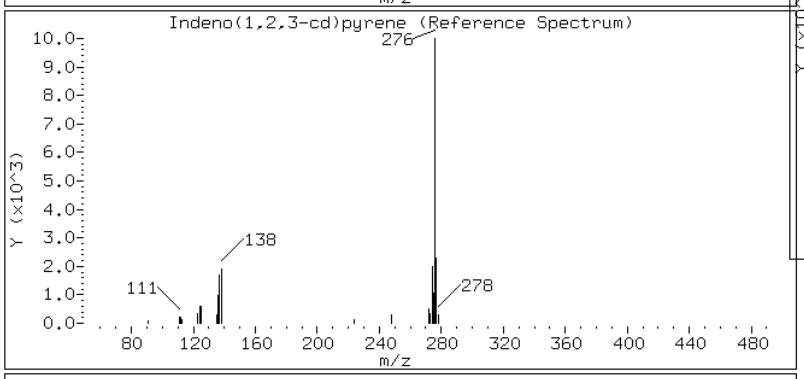
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

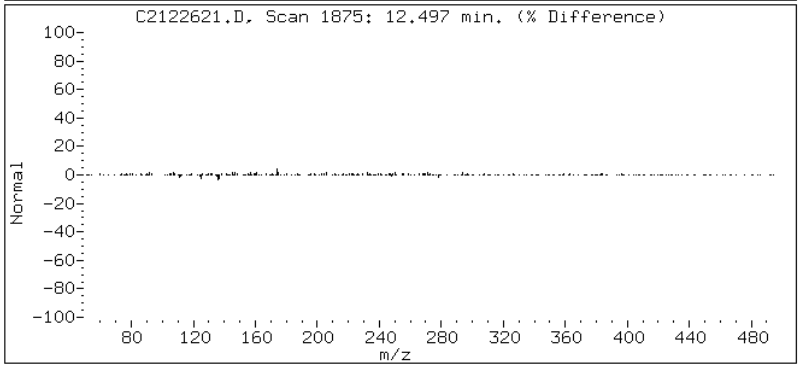
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

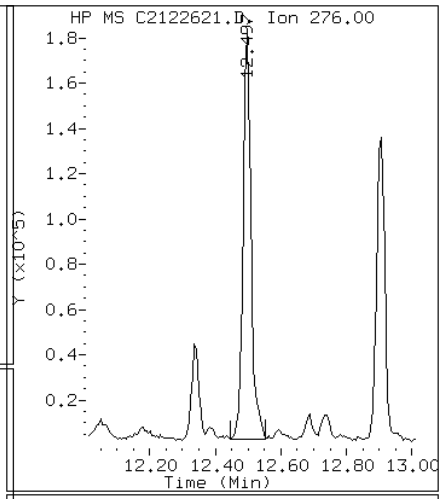
22 Indeno(1,2,3-cd)pyrene

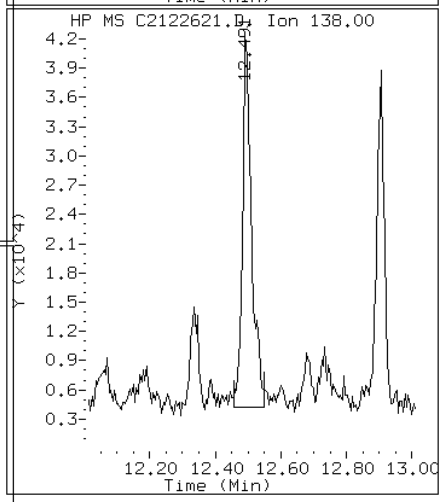












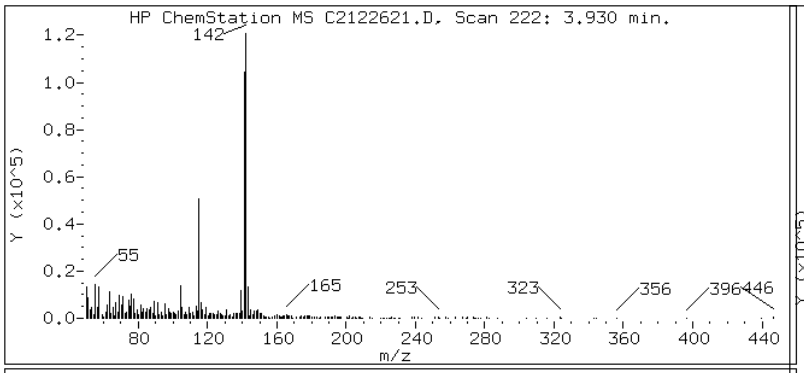
Data File: C2122621.D

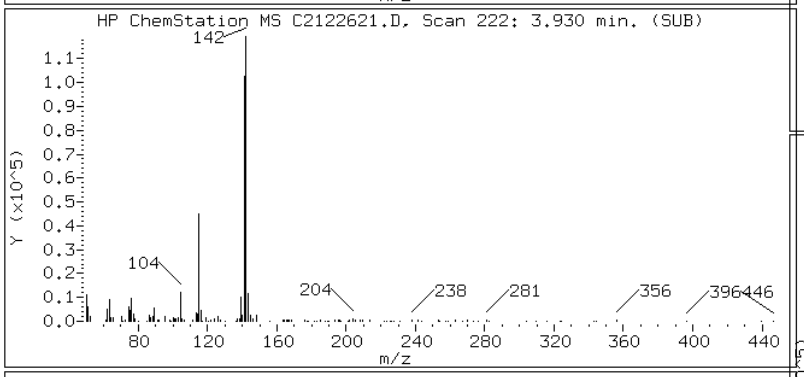
Date: 26-DEC-2012 19:24

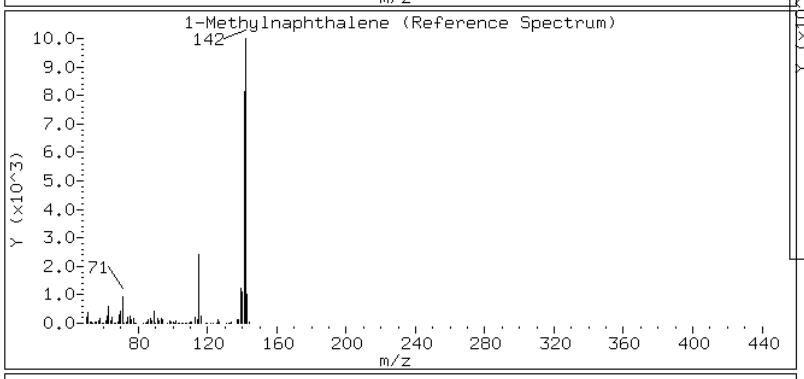
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

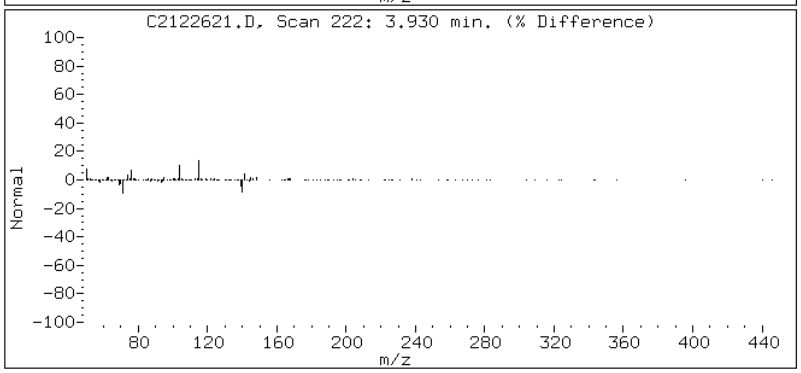
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

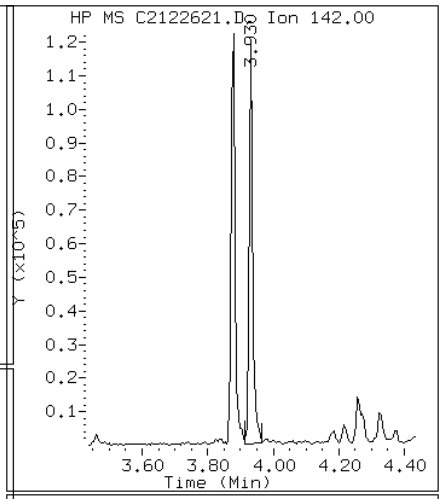
4 1-Methylnaphthalene

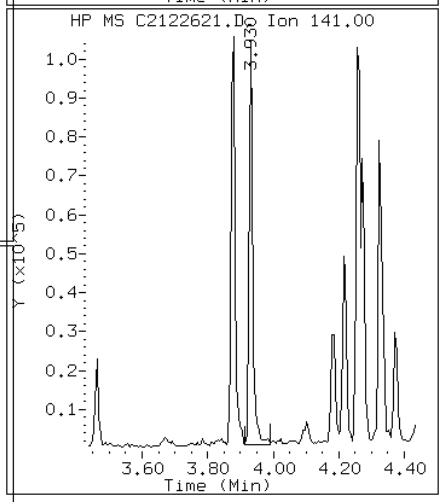












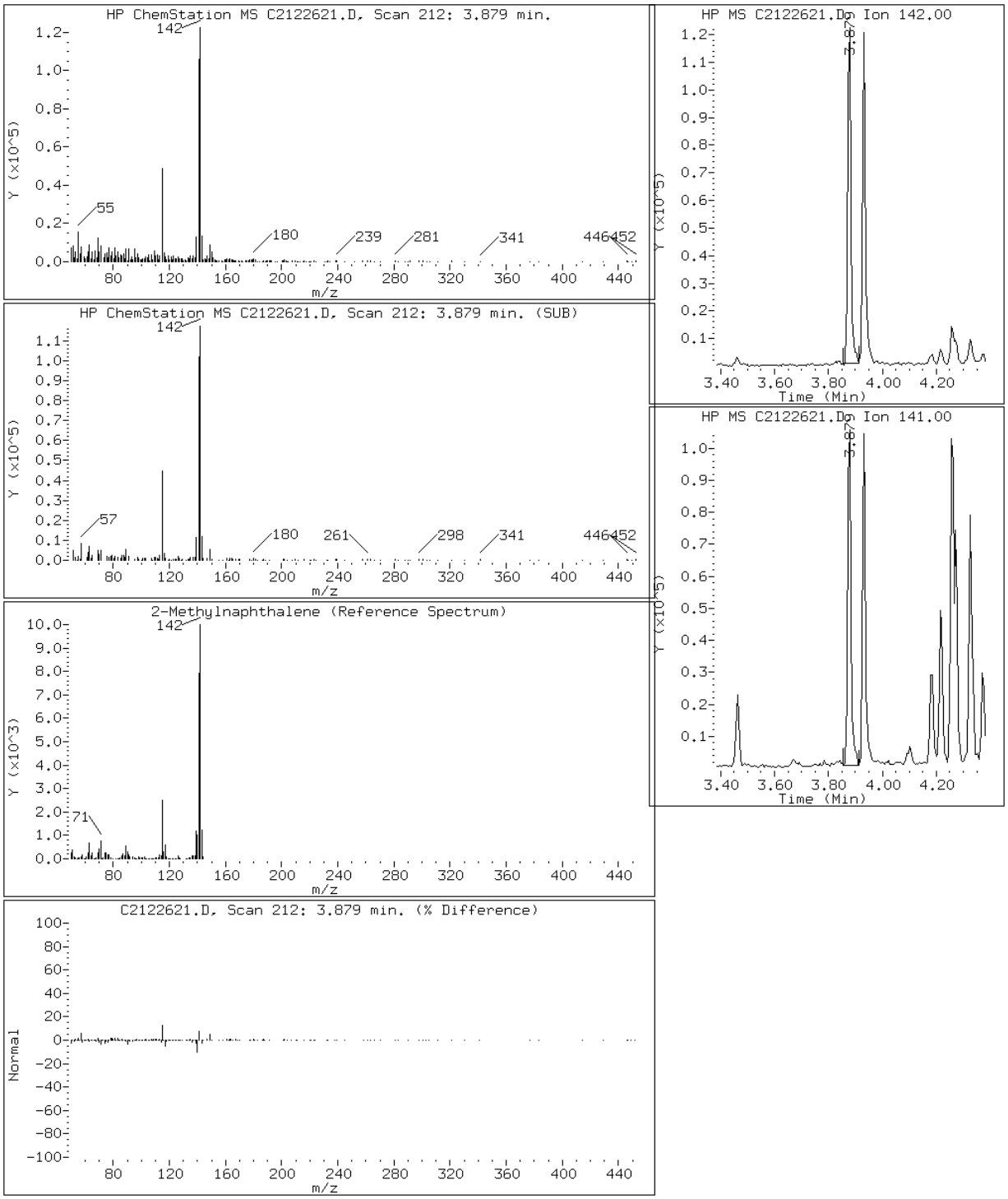
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



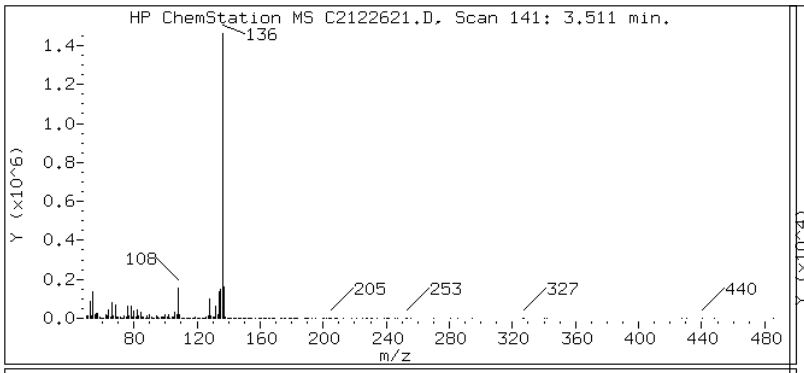
Data File: C2122621.D

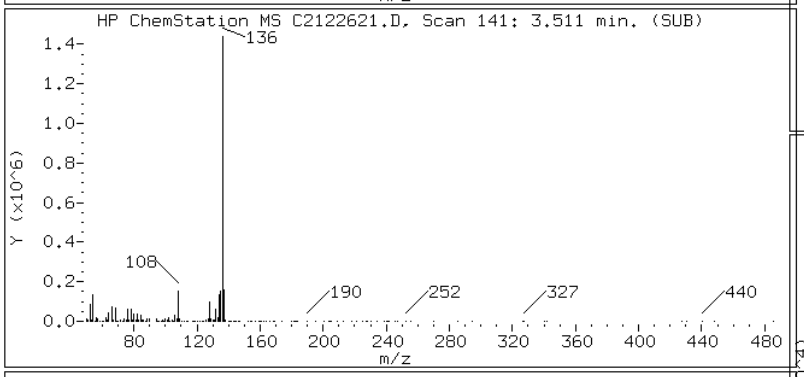
Date: 26-DEC-2012 19:24

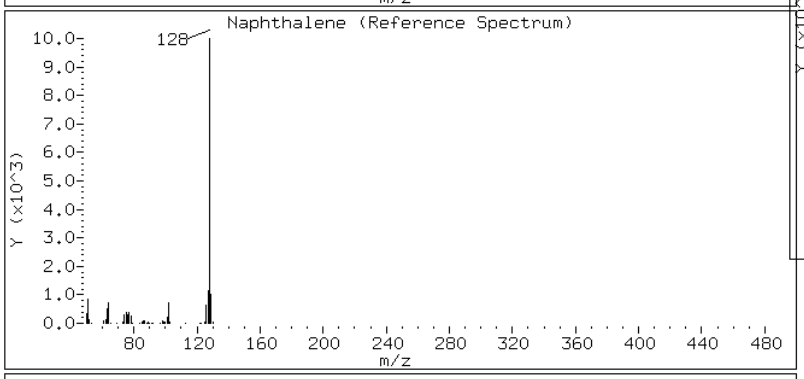
Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

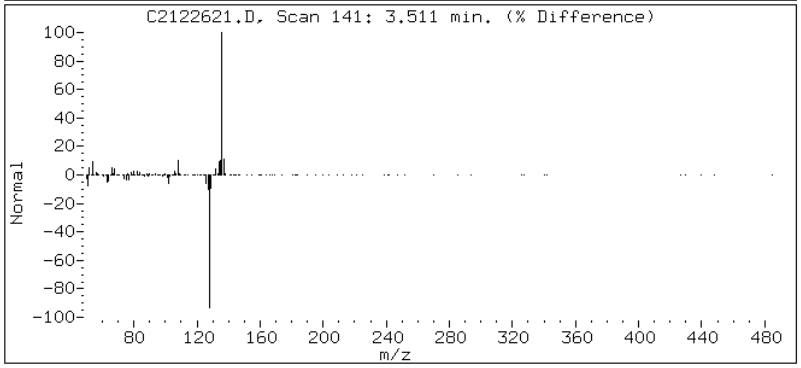
Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

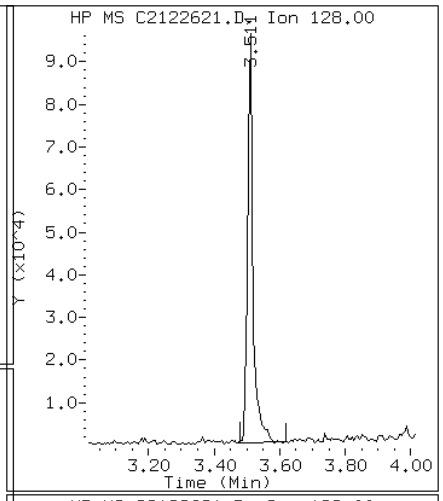
2 Naphthalene

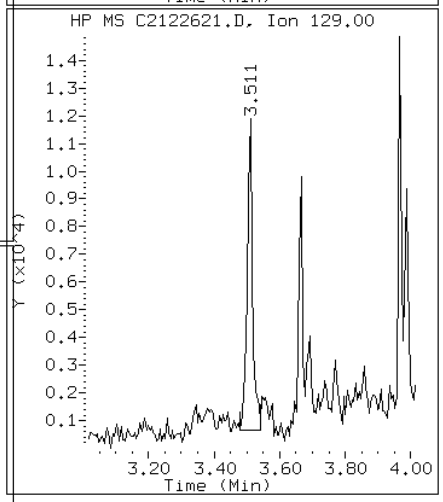












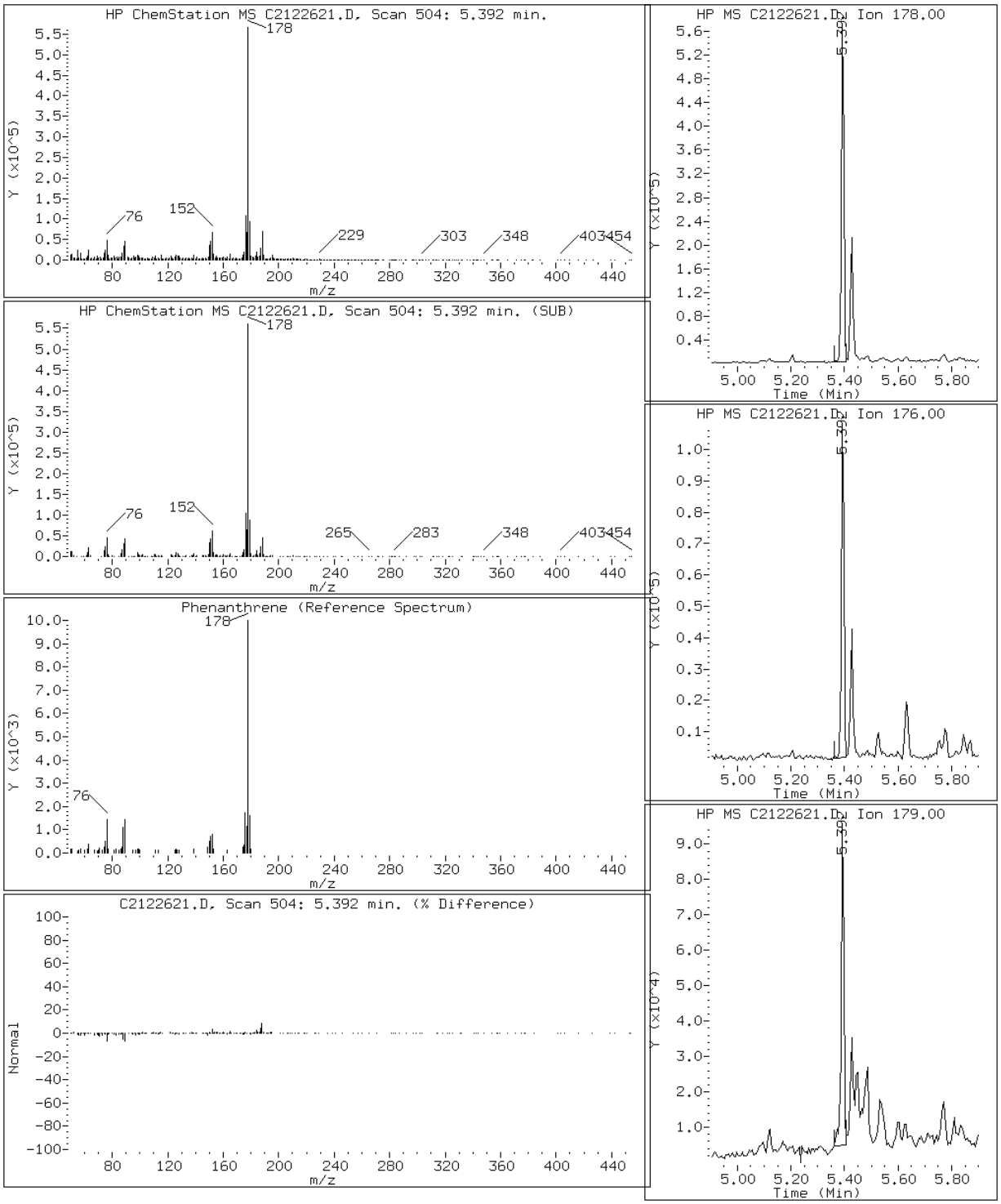
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



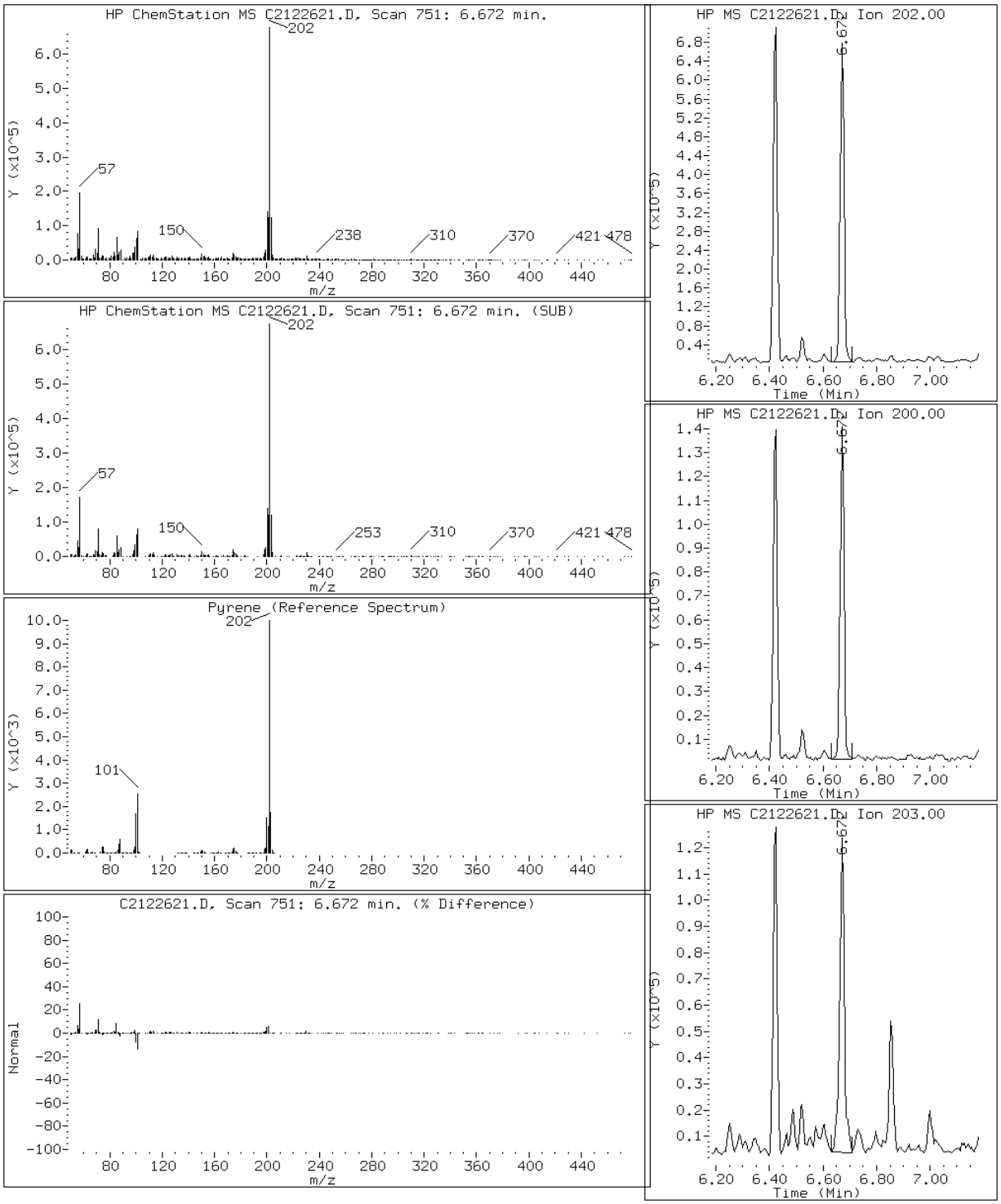
Data File: C2122621.D

Date: 26-DEC-2012 19:24

Client ID: CV0705B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-23-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122621.D
Inj. Date and Time: 26-DEC-2012 19:24
Instrument ID: TSMC5973.i
Client ID: CV0705B-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

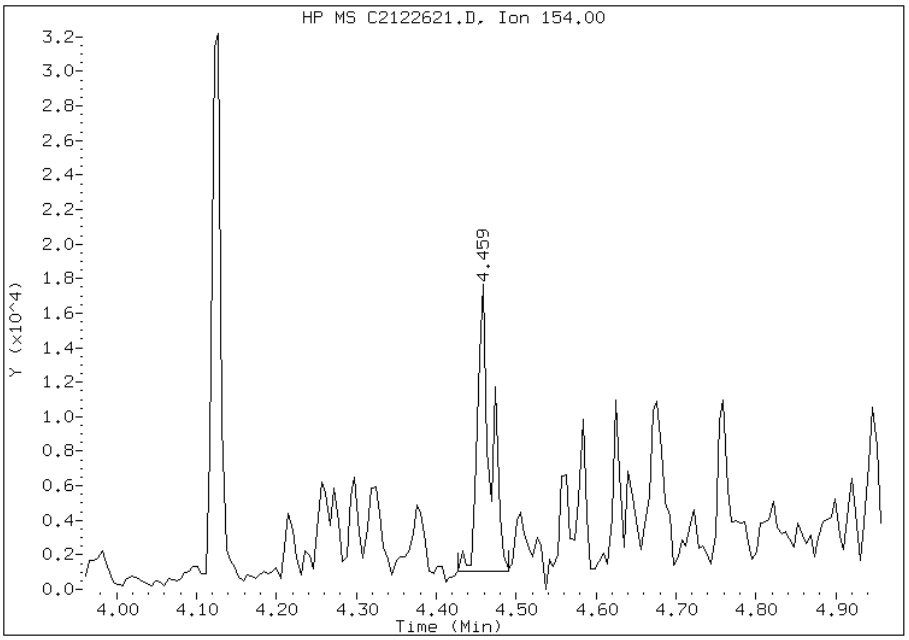
Processing Integration Results

RT: 4.46

Response: 18997

Amount: 0

Conc: 5



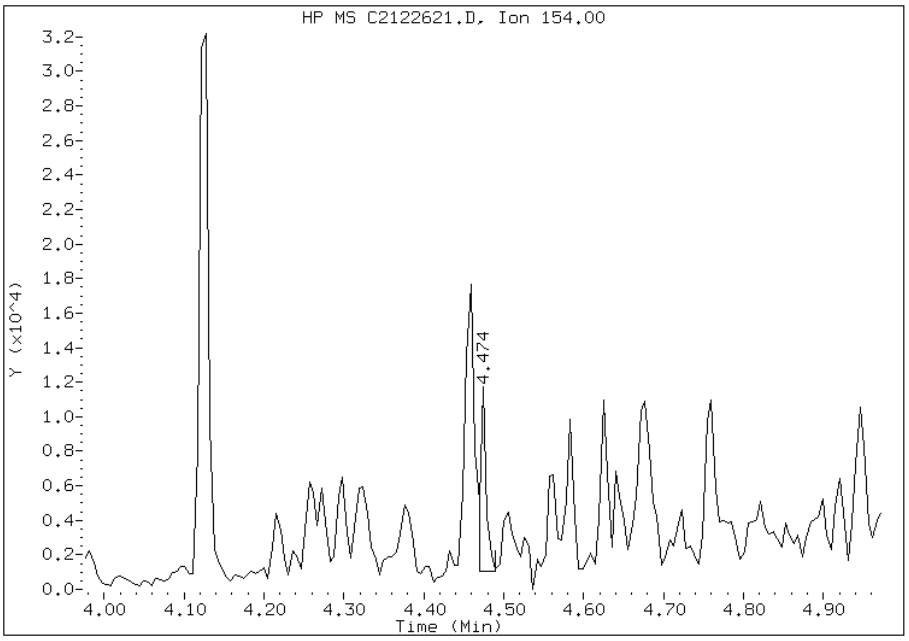
Manual Integration Results

RT: 4.47

Response: 5830

Amount: 0

Conc: 2



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:28
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122621.D
Inj. Date and Time: 26-DEC-2012 19:24
Instrument ID: TSMC5973.i
Client ID: CV0705B-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

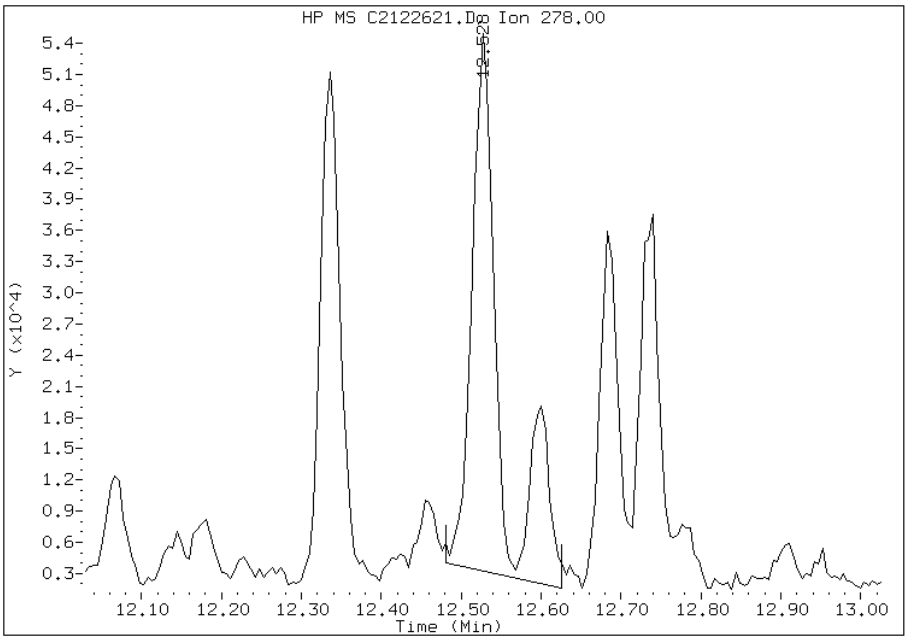
Processing Integration Results

RT: 12.53

Response: 127366

Amount: 1

Conc: 18



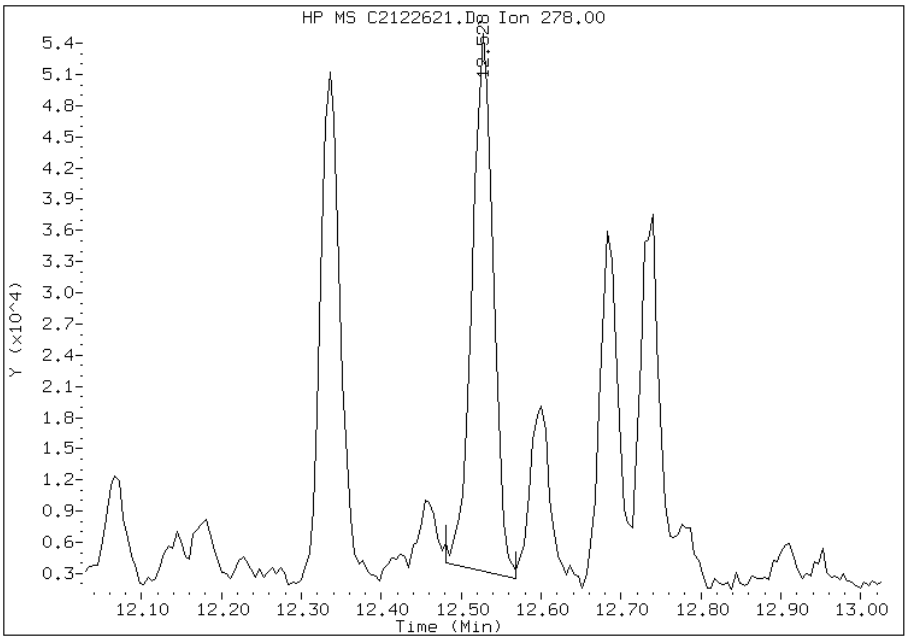
Manual Integration Results

RT: 12.53

Response: 97759

Amount: 0

Conc: 13



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0705C-GS | Lab Sample ID: 680-85785-24

Matrix: Solid | Lab File ID: C2122622.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:56

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.13(g) | Date Analyzed: 12/26/2012 19:43

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 23.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.4	J	8.7	0.75
208-96-8	Acenaphthylene	10		8.7	0.69
120-12-7	Anthracene	16		8.7	0.85
56-55-3	Benzo[a]anthracene	46		8.7	0.80
50-32-8	Benzo[a]pyrene	57		8.7	0.88
205-99-2	Benzo[b]fluoranthene	110		8.7	1.2
191-24-2	Benzo[g,h,i]perylene	24		8.7	1.4
207-08-9	Benzo[k]fluoranthene	37		8.7	0.83
218-01-9	Chrysene	80		8.7	0.97
53-70-3	Dibenz(a,h)anthracene	8.8		8.7	0.84
206-44-0	Fluoranthene	82		8.7	0.78
86-73-7	Fluorene	5.4	J	8.7	0.67
193-39-5	Indeno[1,2,3-cd]pyrene	30		8.7	1.4
90-12-0	1-Methylnaphthalene	24		8.7	0.69
91-57-6	2-Methylnaphthalene	38		8.7	0.67
91-20-3	Naphthalene	28		8.7	0.67
85-01-8	Phenanthrene	72		8.7	0.57
129-00-0	Pyrene	59		8.7	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	77		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122622.D
Lab Smp Id: 680-85785-A-24-A Client Smp ID: CV0705C-GS
Inj Date : 26-DEC-2012 19:43
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-24-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.293	3.303	(0.941)	157802	2.20481	73	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	6651513	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	106180	0.65321	22	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	107506	0.87149	29	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	68095	0.56275	19	
* 5 Acenaphthene-d10	164	4.459	4.464	(1.000)	3710874	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	48399	0.24272	8.0	
7 Acenaphthene	154	4.474	4.479	(1.003)	5704	0.05468	1.8(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	17564	0.12612	4.2(a)	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	5952579	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	282504	1.68072	56	
11 Anthracene	178	5.428	5.438	(1.009)	68668	0.37272	12(Q)	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	333387	3.06952	100	
13 Fluoranthene	202	6.423	6.433	(1.194)	421738	1.89966	63	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7478202	40.0000		
15 Pyrene	202	6.677	6.682	(0.801)	384779	1.37339	46	
16 Benzo(a)anthracene	228	8.309	8.309	(0.997)	280653	1.06027	35	
17 Chrysene	228	8.361	8.371	(1.003)	415245	1.86434	62	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	6884815	40.0000		
19 Benzo(b)fluoranthene	252	10.092	10.102	(0.936)	552444	2.51885	84	
20 Benzo(k)fluoranthene	252	10.138	10.154	(0.940)	185350	0.86054	28	
21 Benzo(a)pyrene	252	10.646	10.656	(0.988)	260086	1.31885	44	
22 Indeno(1,2,3-cd)pyrene	276	12.501	12.512	(1.160)	142474	0.68521	23	
23 Dibenzo(a,h)anthracene	278	12.532	12.548	(1.162)	43861	0.20391	6.8(M)	SP
24 Benzo(g,h,i)perylene	276	12.906	12.921	(1.197)	114959	0.54523	18	

QC Flag Legend

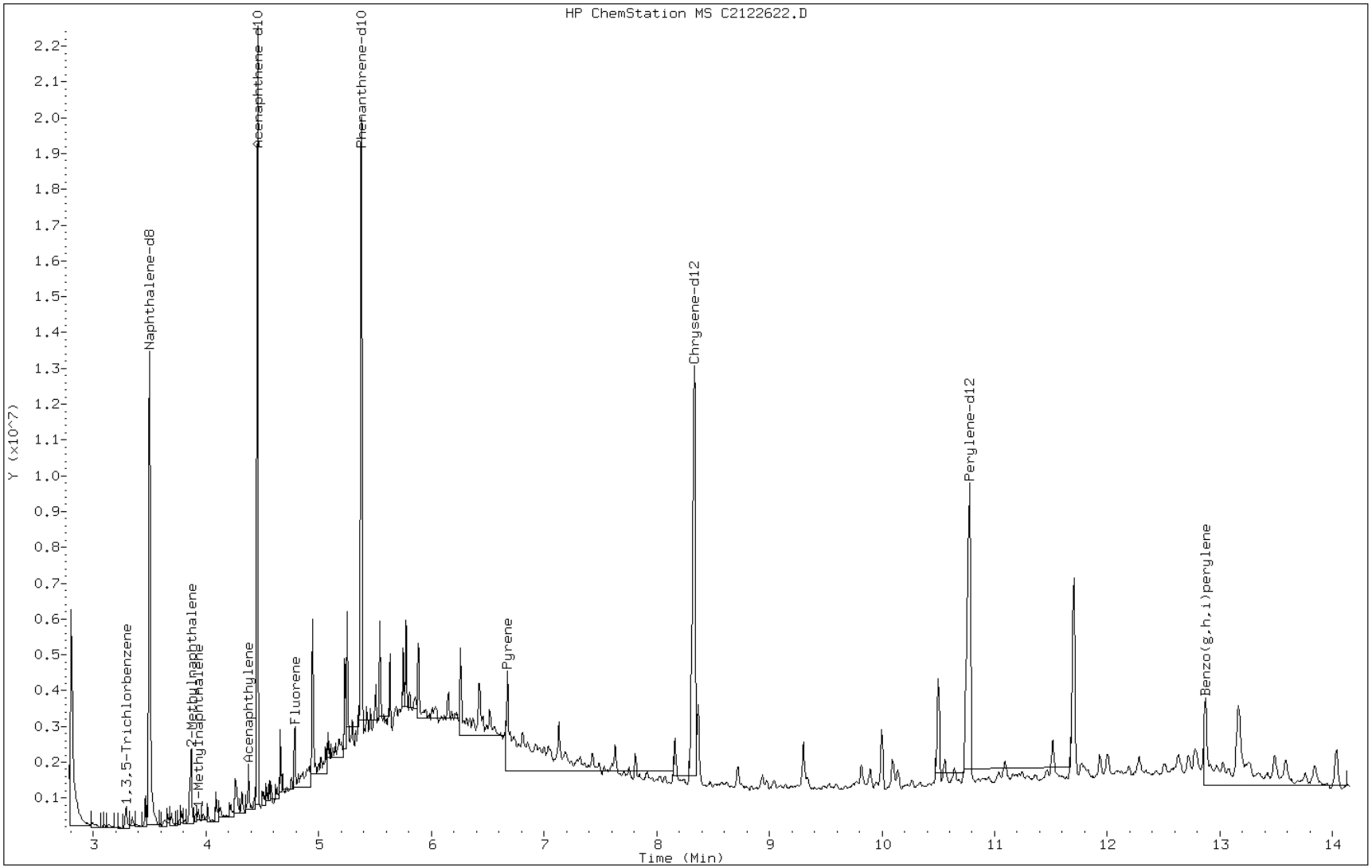
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW



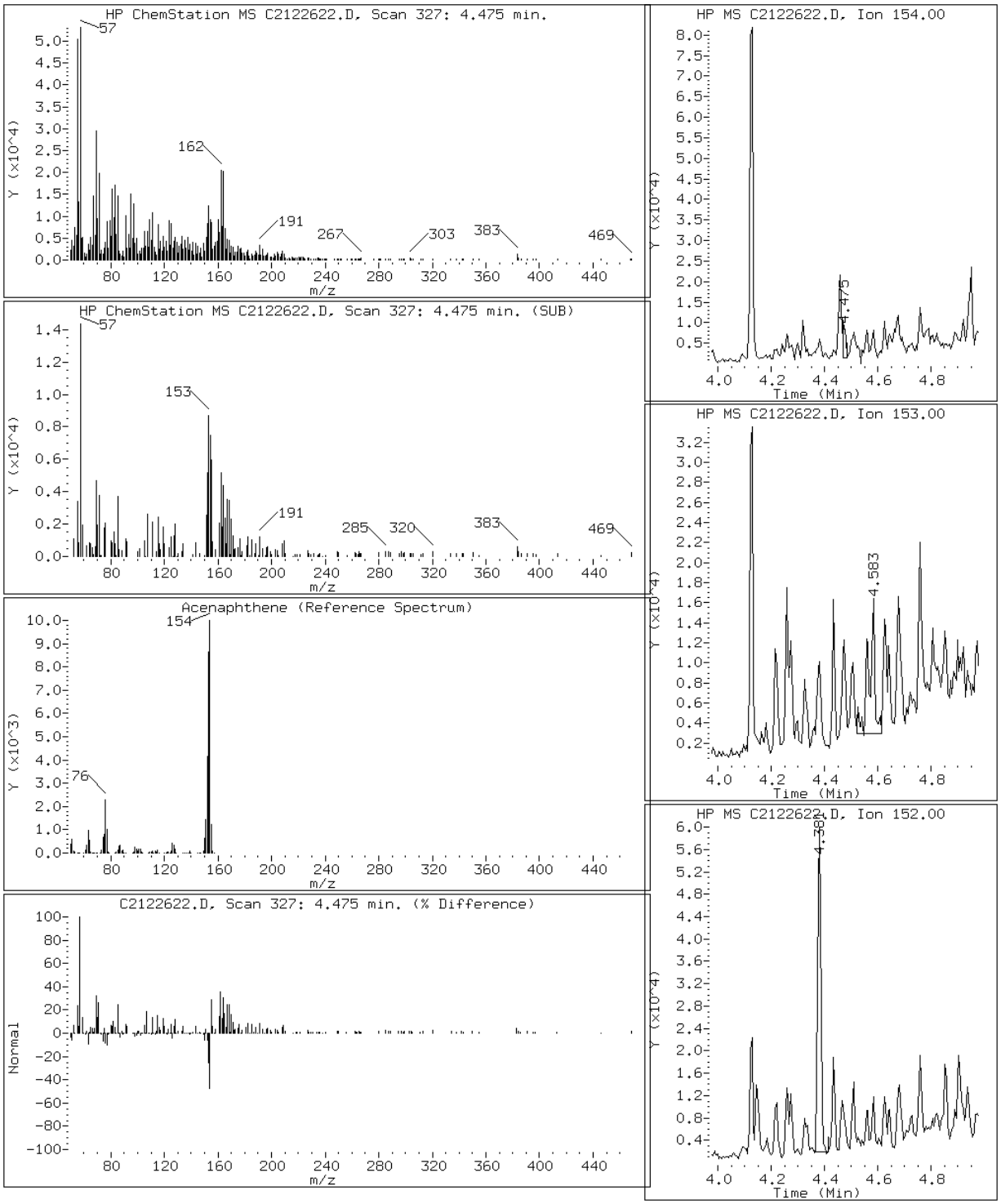
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



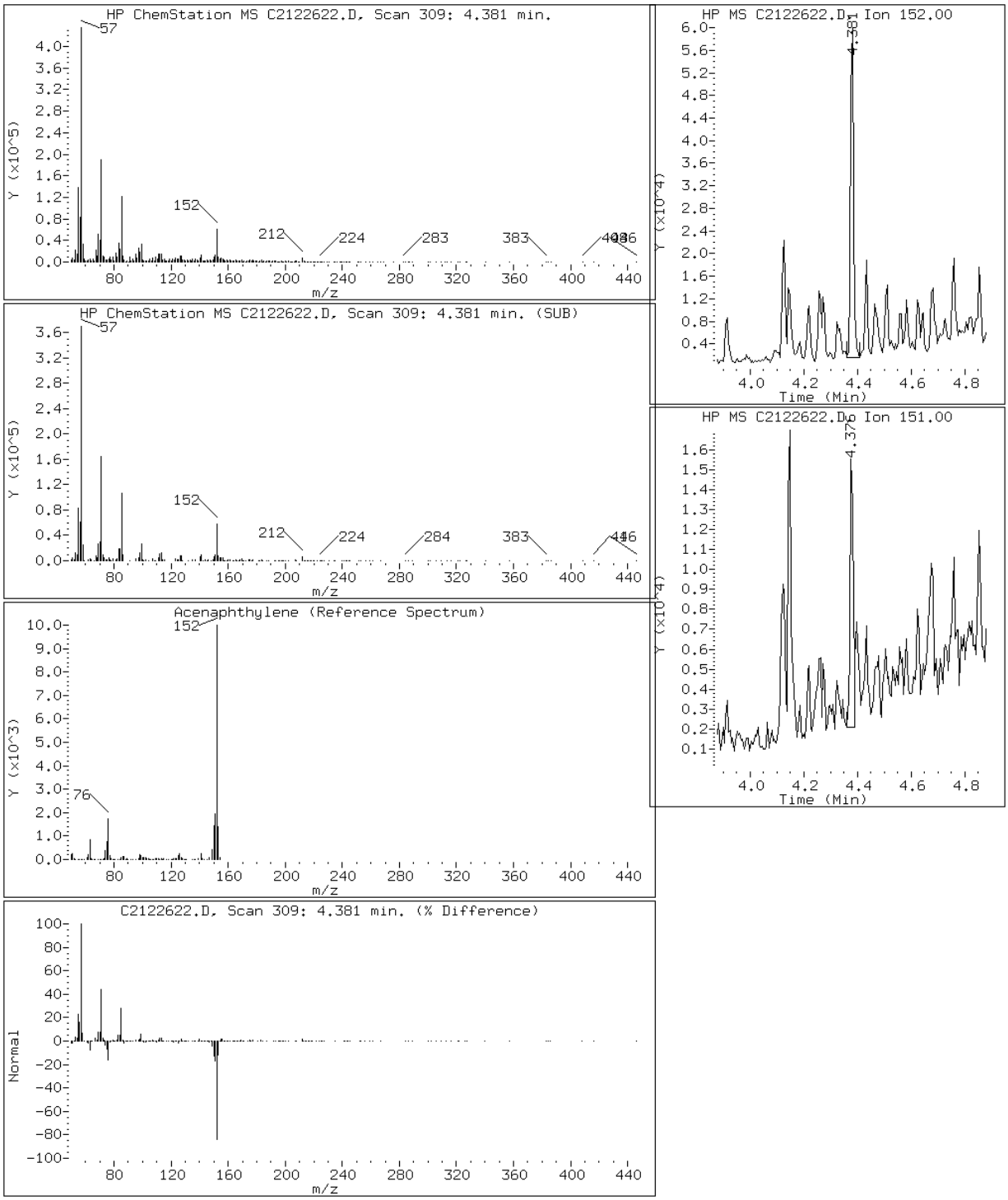
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

6 Acenaphthylene



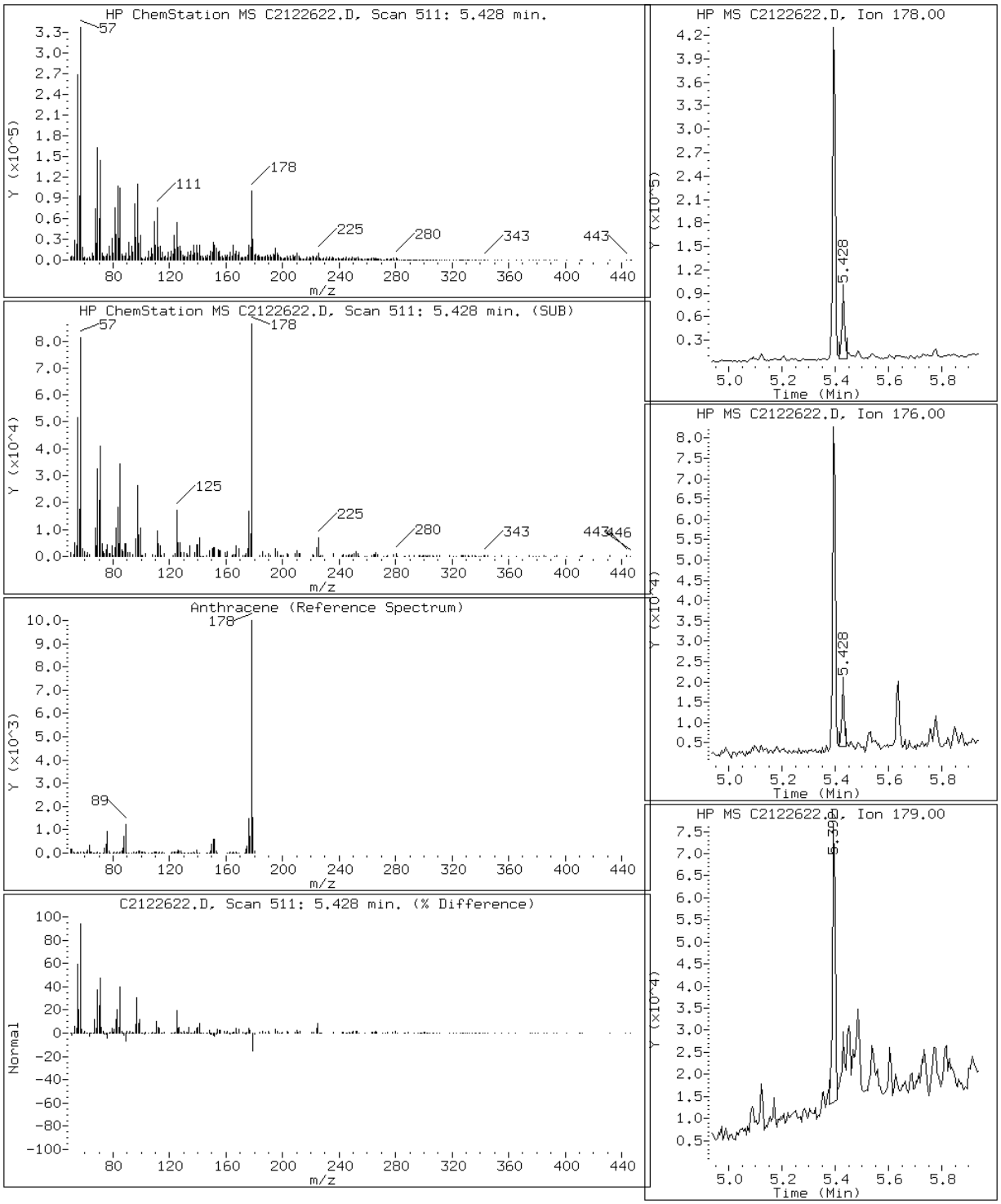
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

11 Anthracene



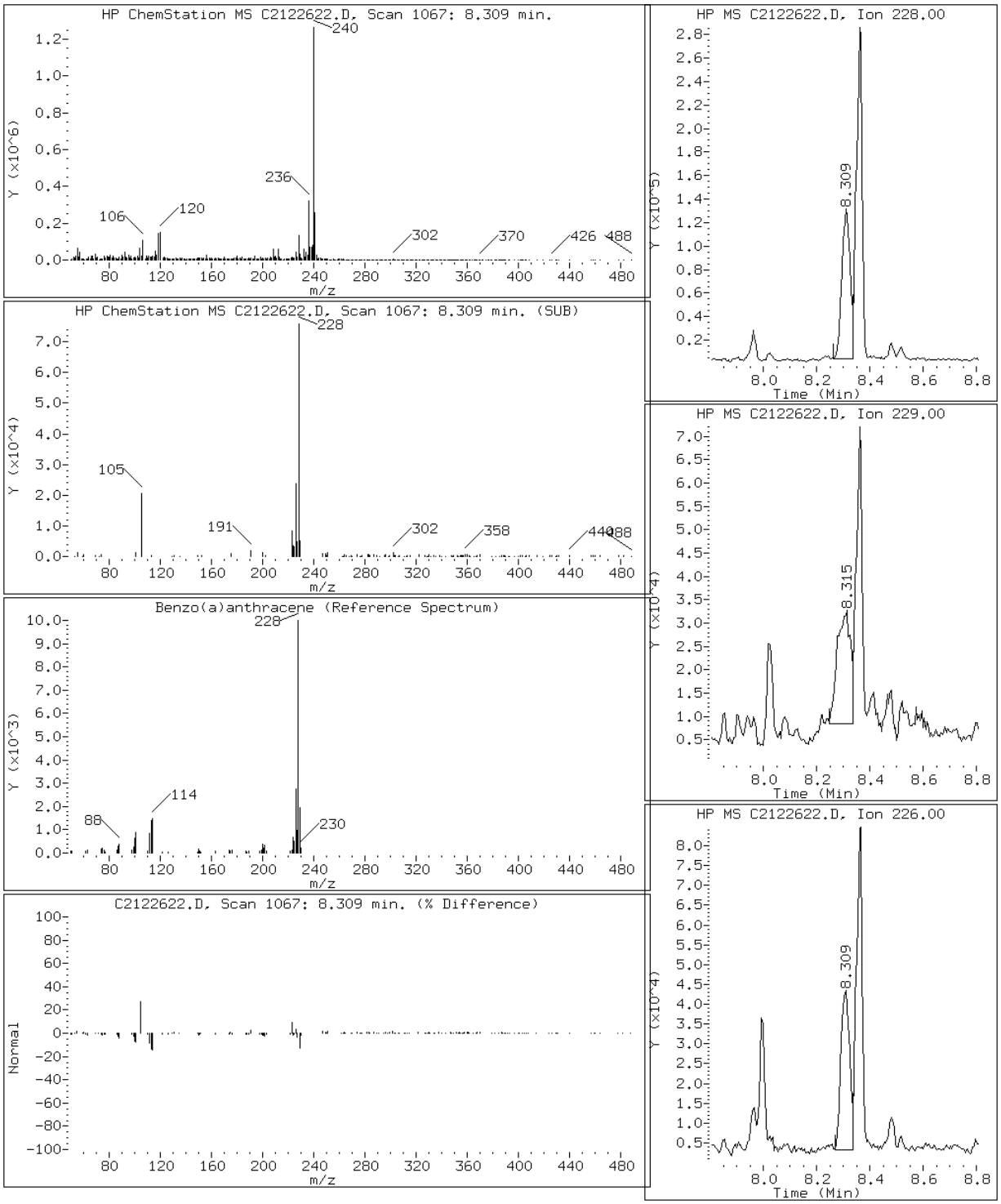
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



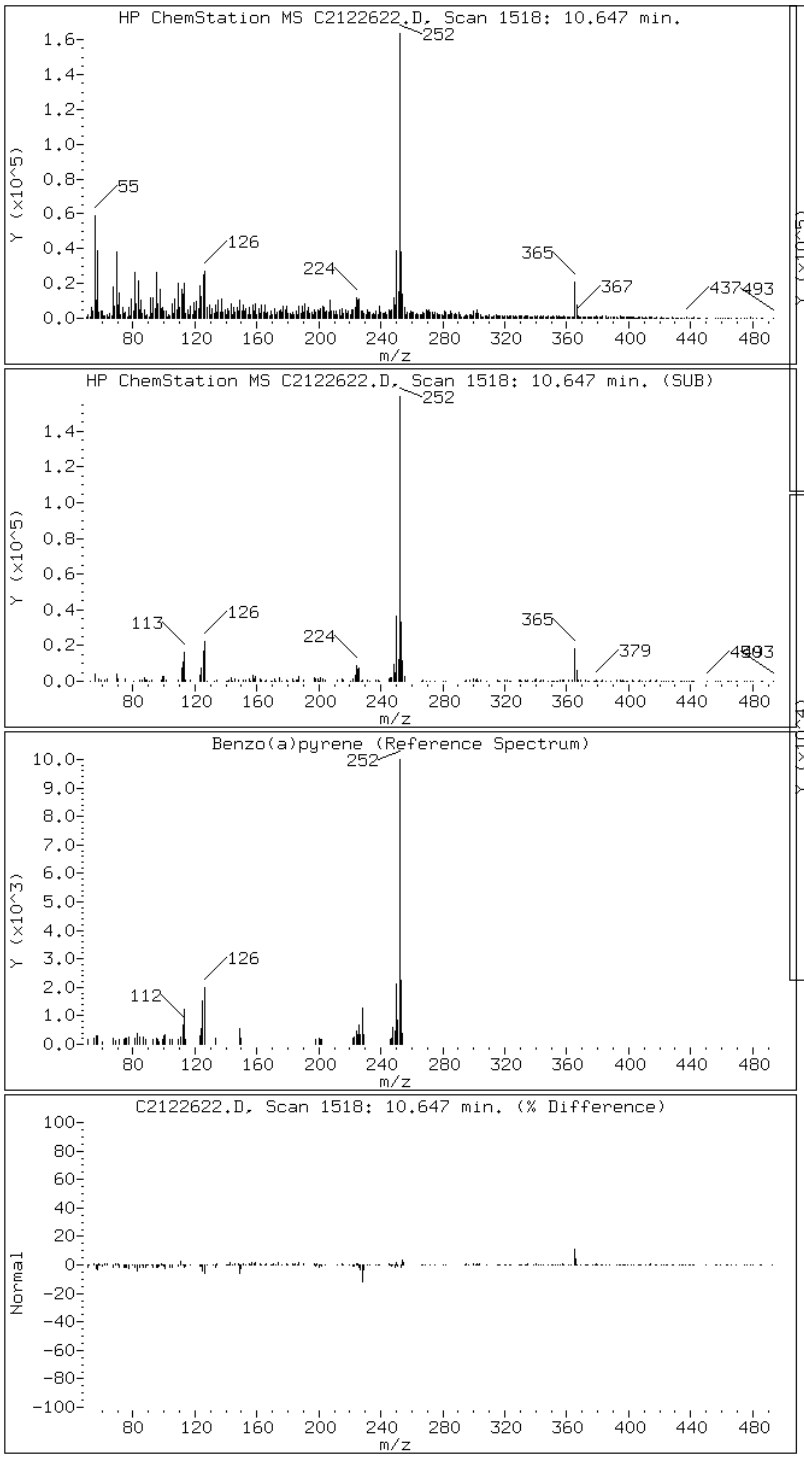
Data File: C2122622.D

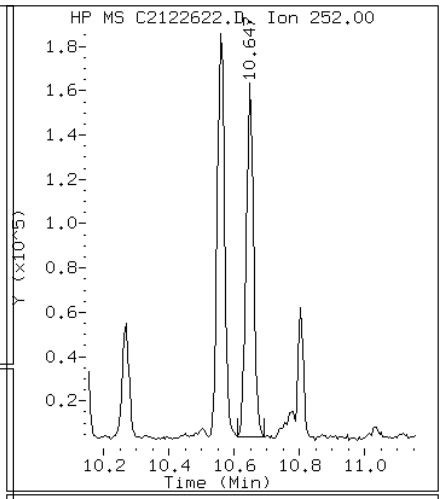
Date: 26-DEC-2012 19:43

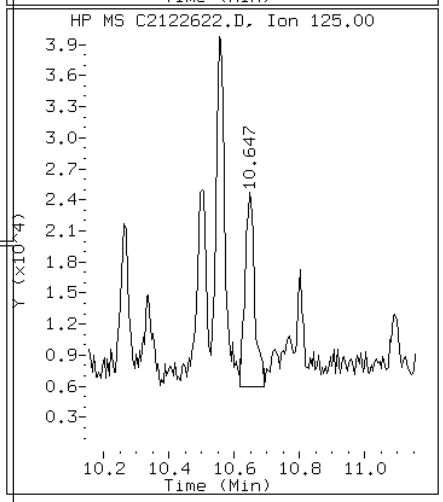
Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

21 Benzo(a)pyrene







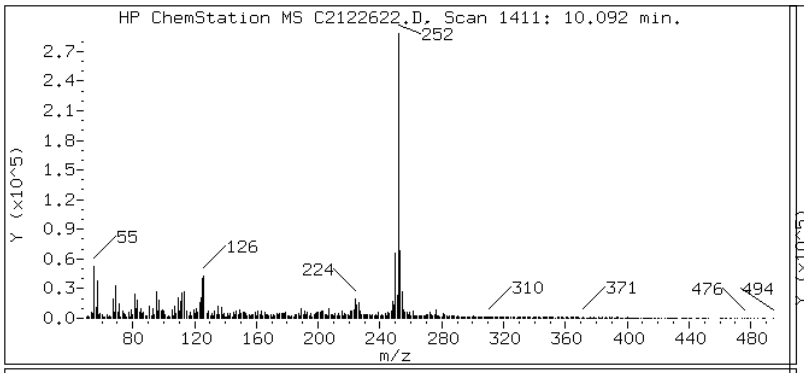
Data File: C2122622.D

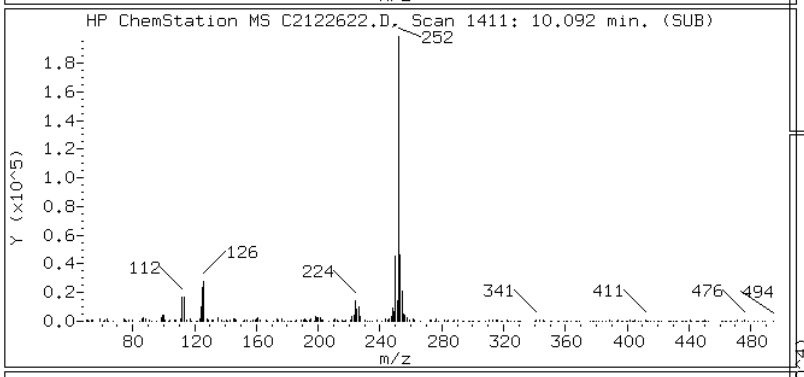
Date: 26-DEC-2012 19:43

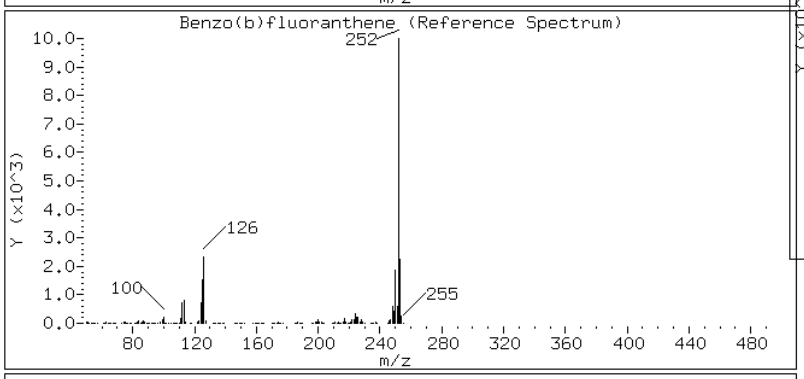
Client ID: CV0705C-GS Instrument: TSMC5973.i

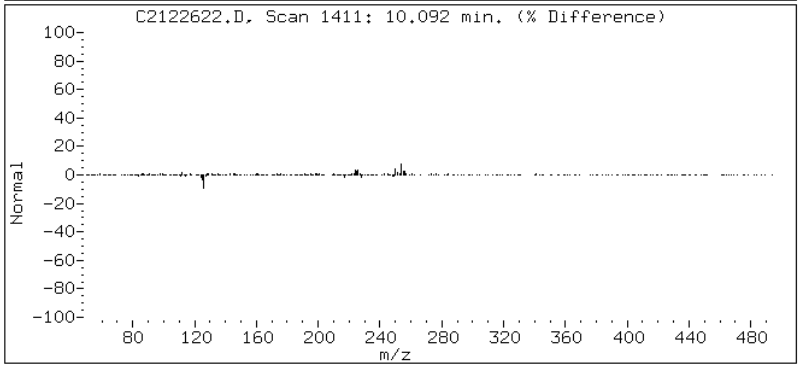
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

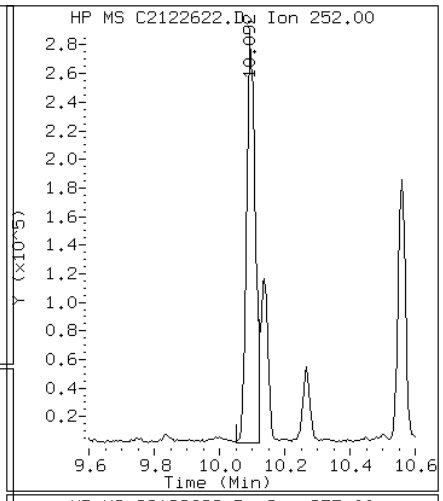
19 Benzo(b)fluoranthene

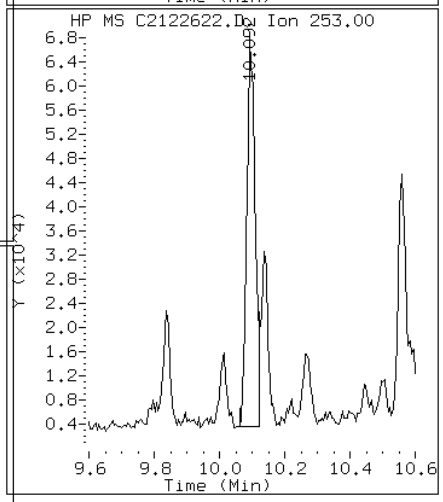












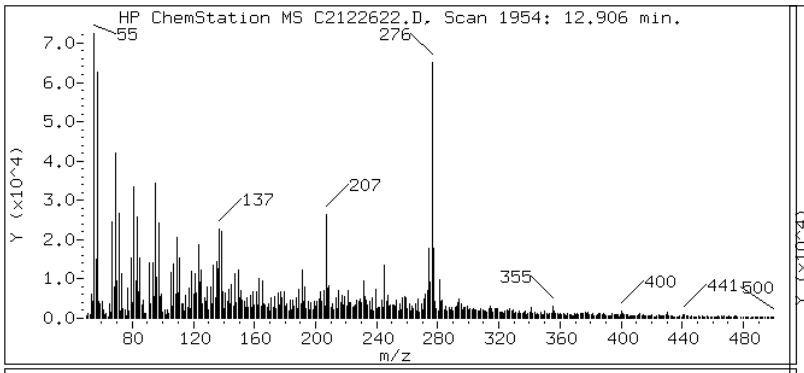
Data File: C2122622.D

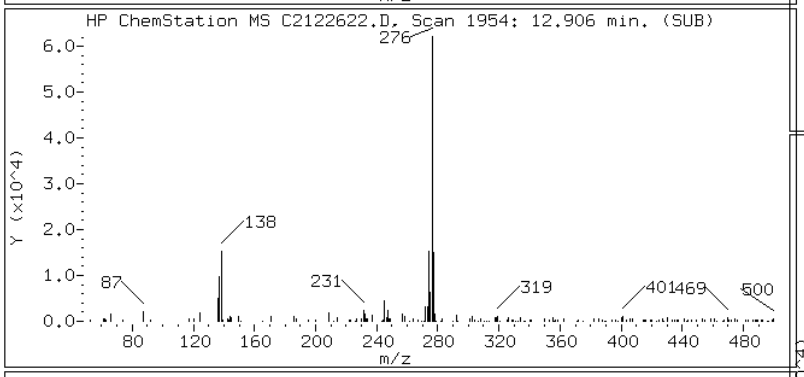
Date: 26-DEC-2012 19:43

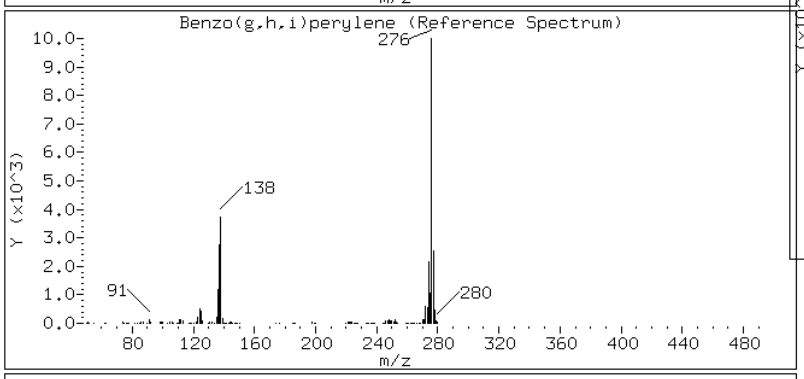
Client ID: CV0705C-GS Instrument: TSMC5973.i

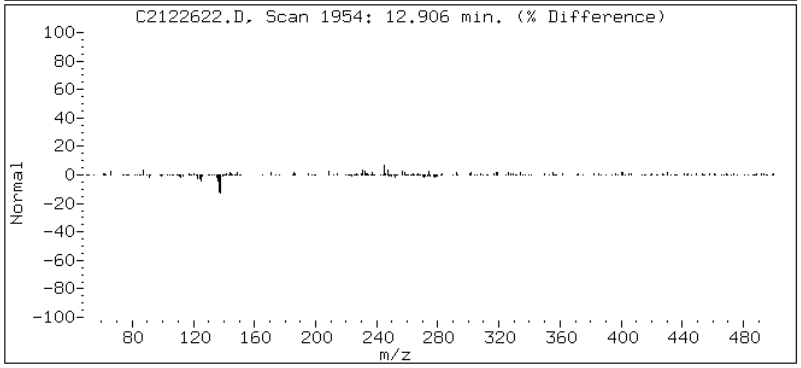
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

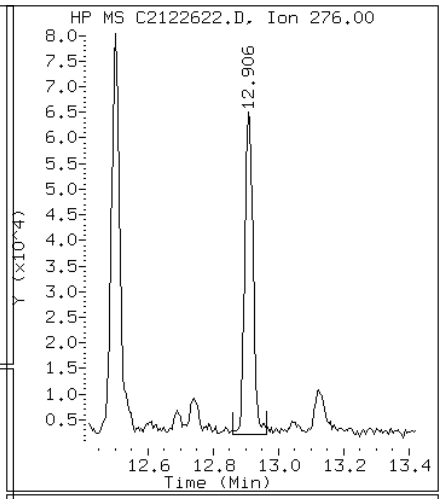
24 Benzo(g,h,i)perylene

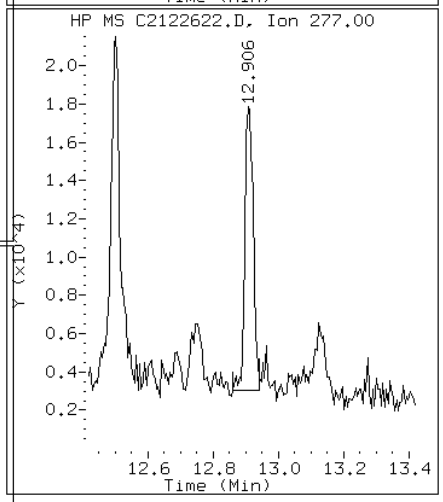












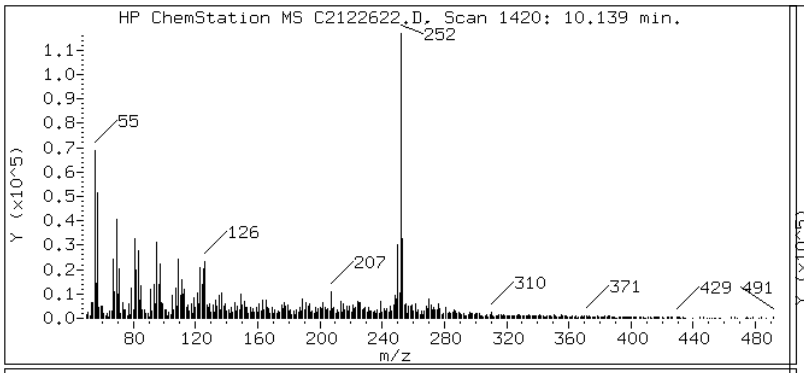
Data File: C2122622.D

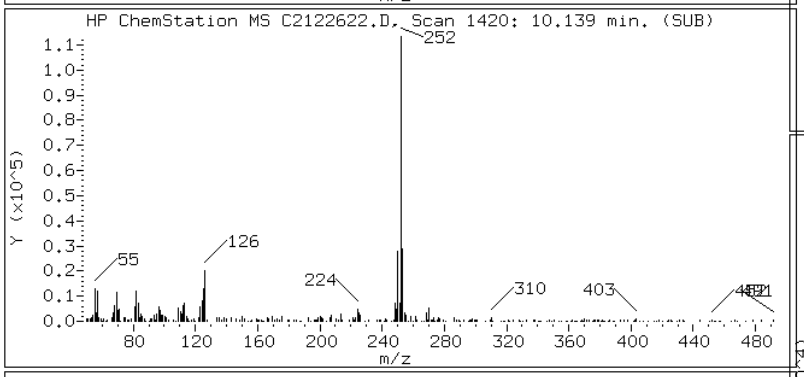
Date: 26-DEC-2012 19:43

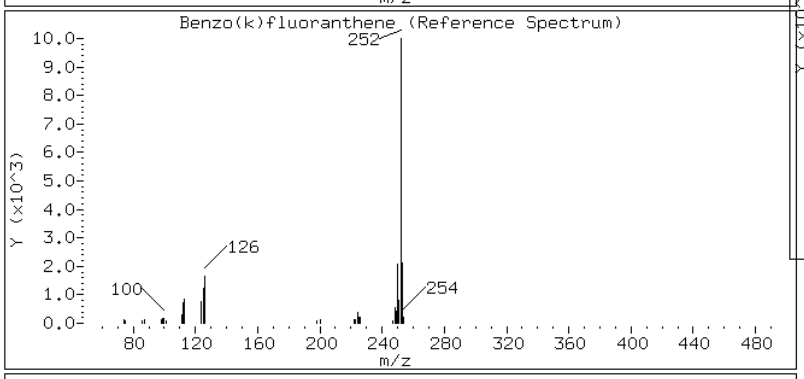
Client ID: CV0705C-GS Instrument: TSMC5973.i

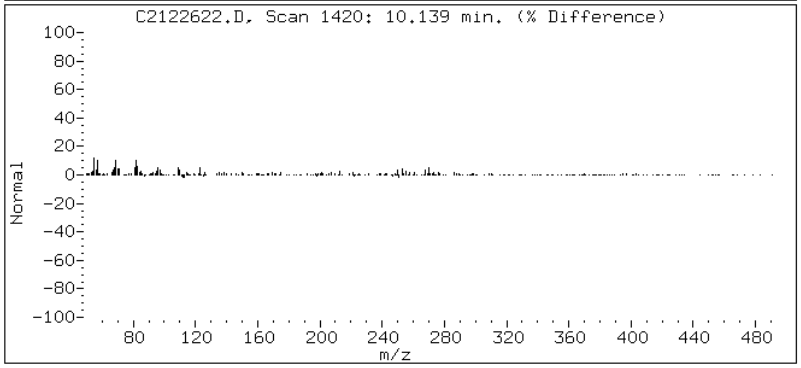
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

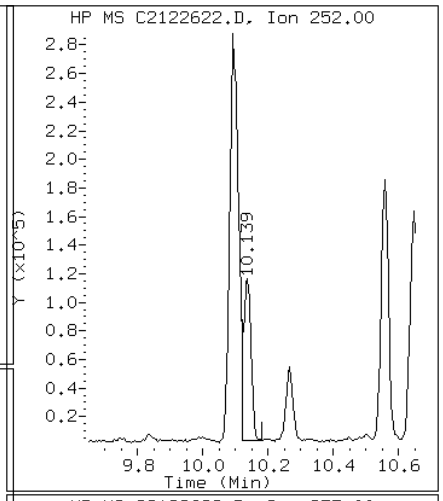
20 Benzo(k)fluoranthene

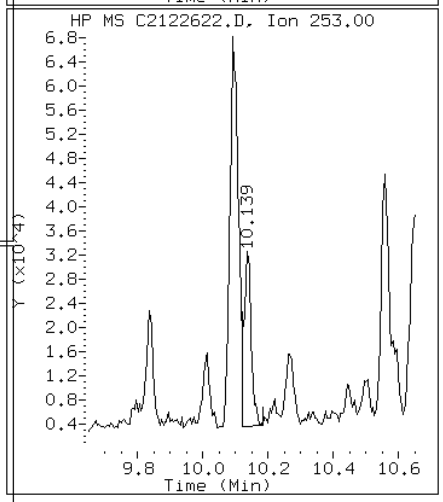












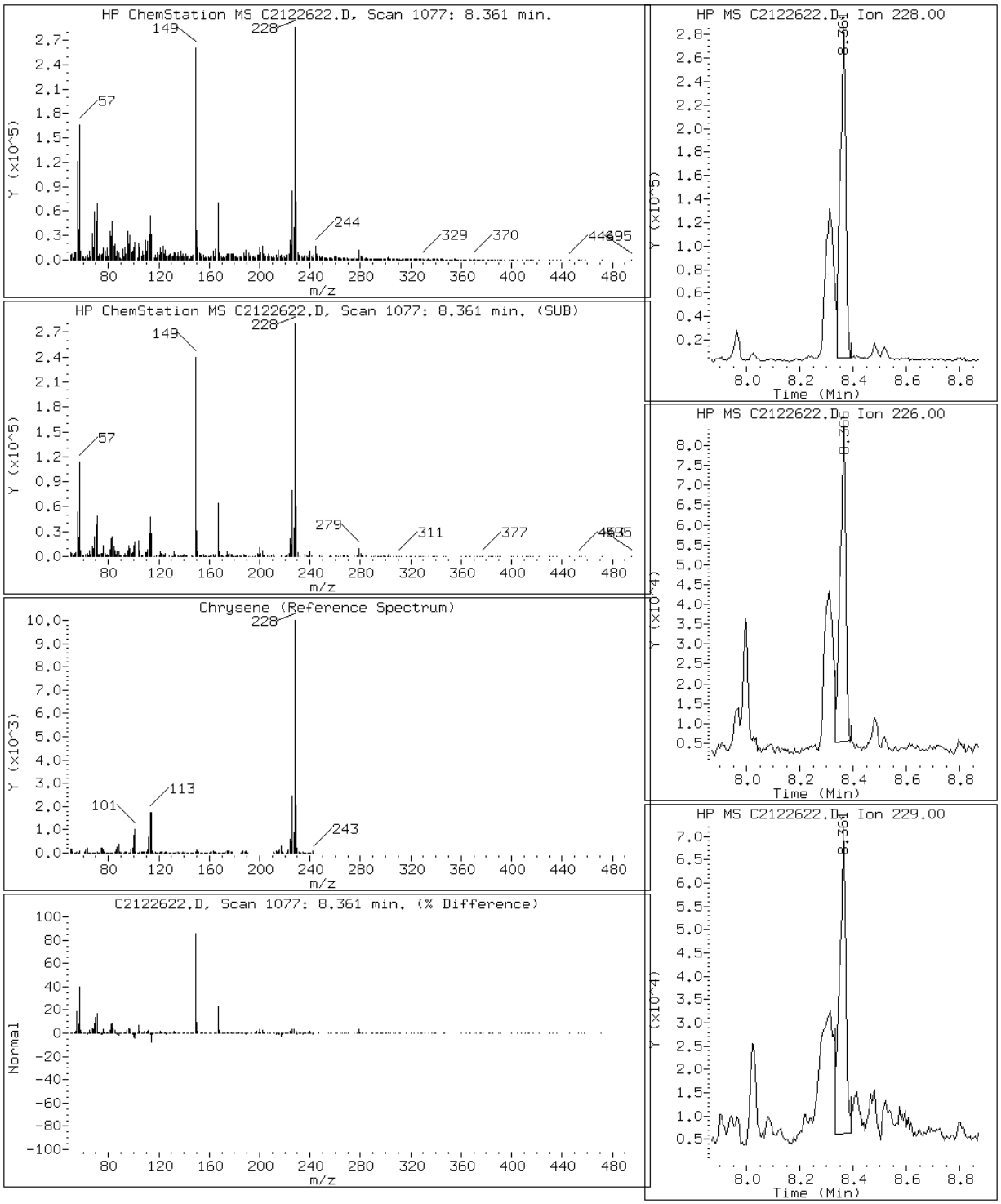
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

17 Chrysene



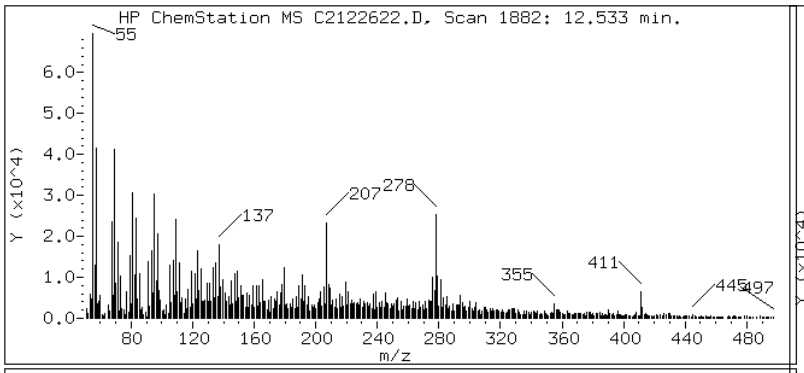
Data File: C2122622.D

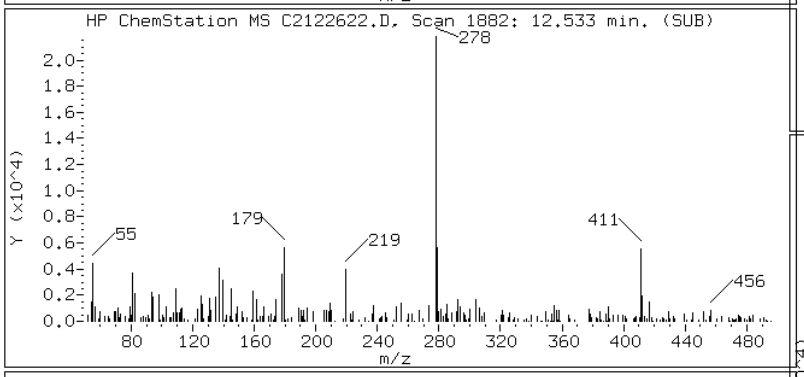
Date: 26-DEC-2012 19:43

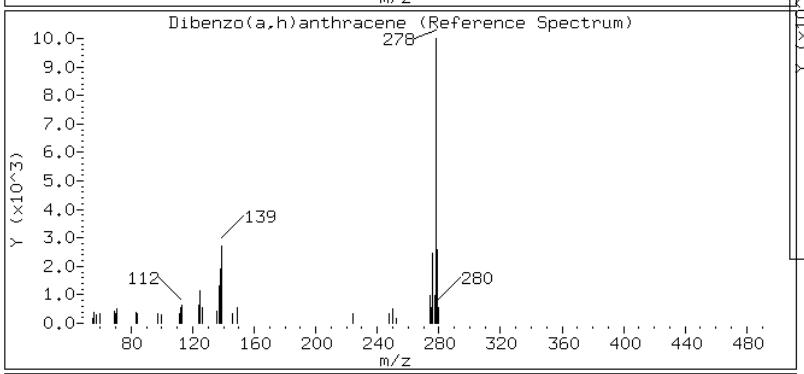
Client ID: CV0705C-GS Instrument: TSMC5973.i

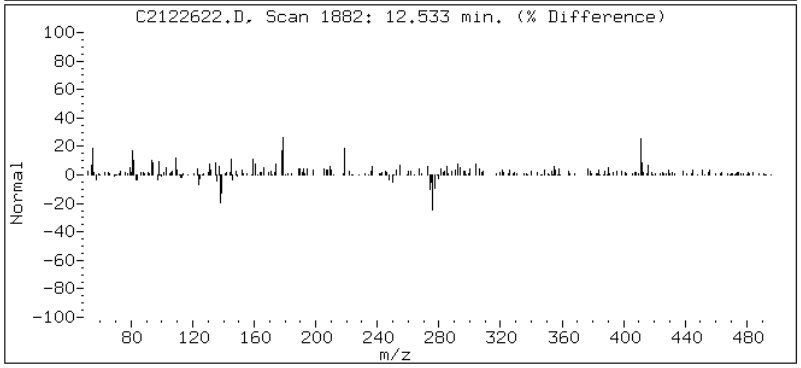
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

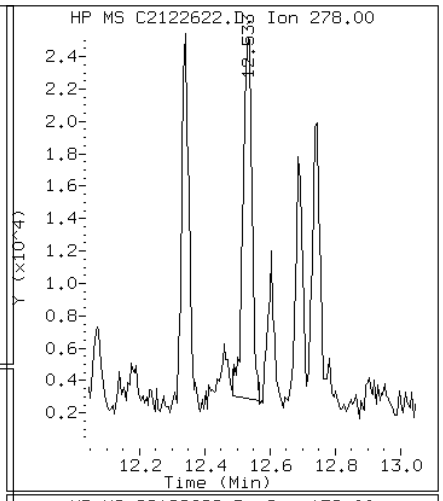
23 Dibenzo(a,h)anthracene

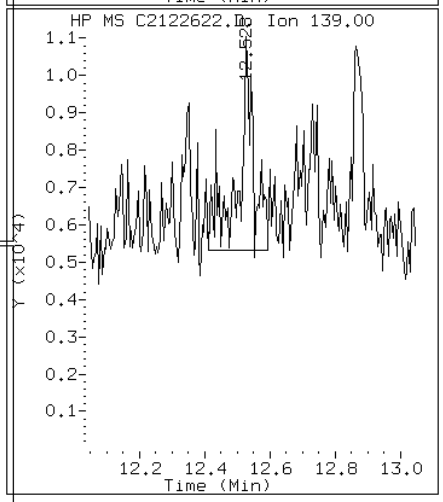












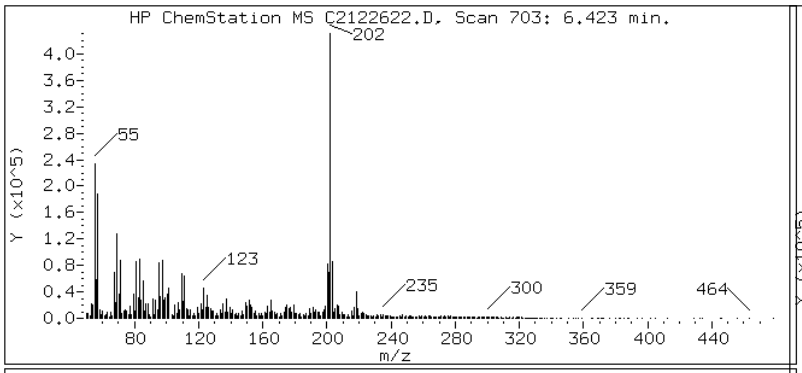
Data File: C2122622.D

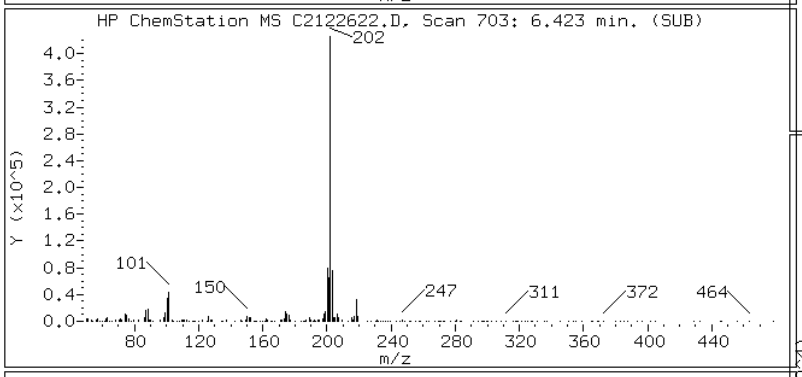
Date: 26-DEC-2012 19:43

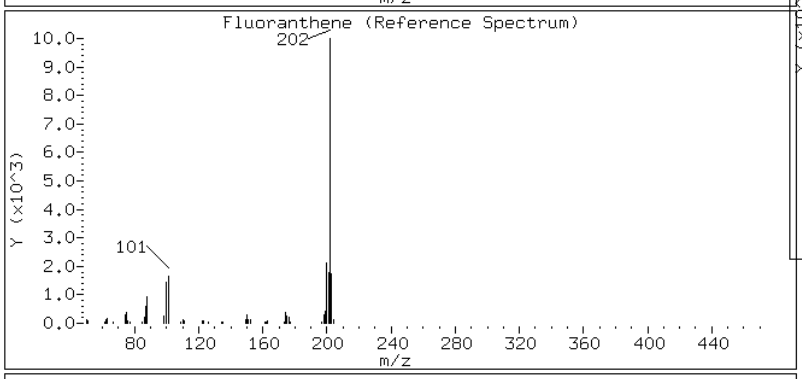
Client ID: CV0705C-GS Instrument: TSMC5973.i

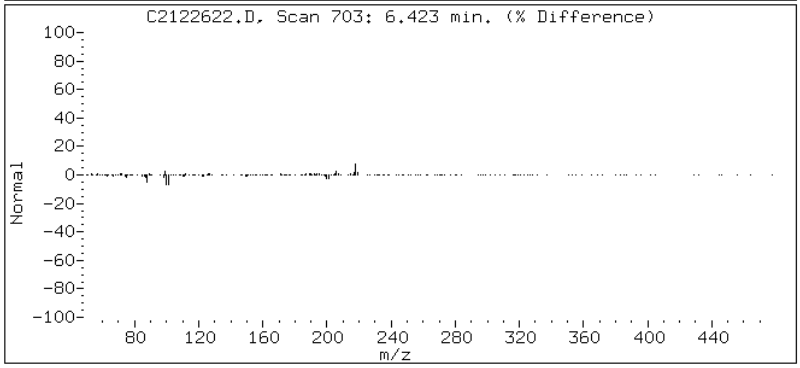
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

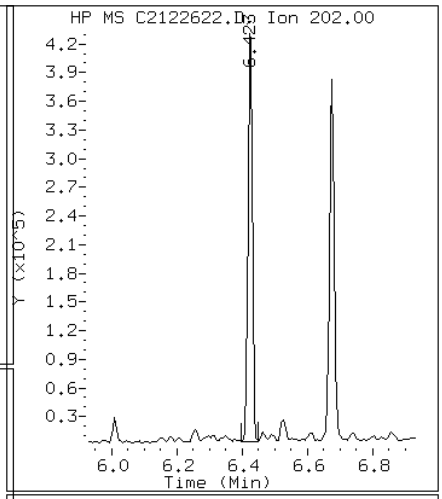
13 Fluoranthene

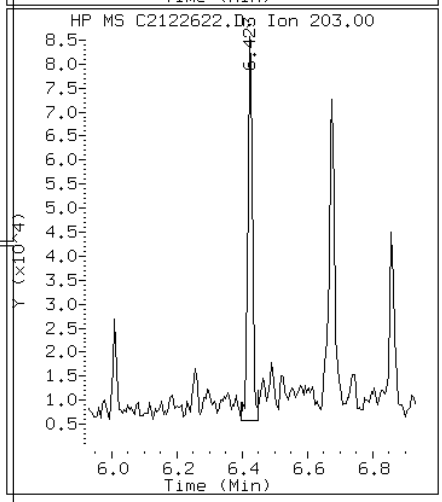












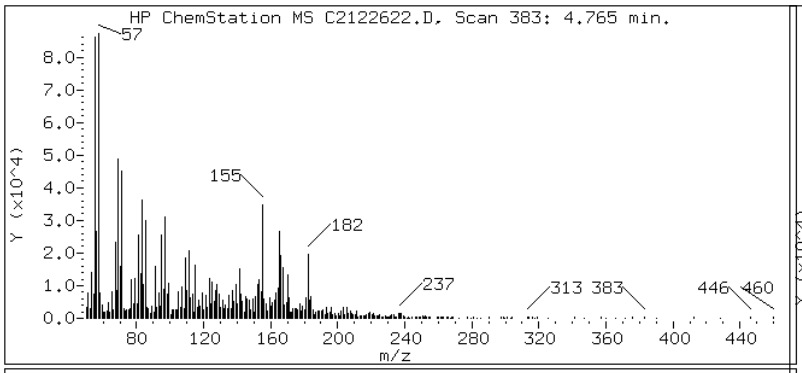
Data File: C2122622.D

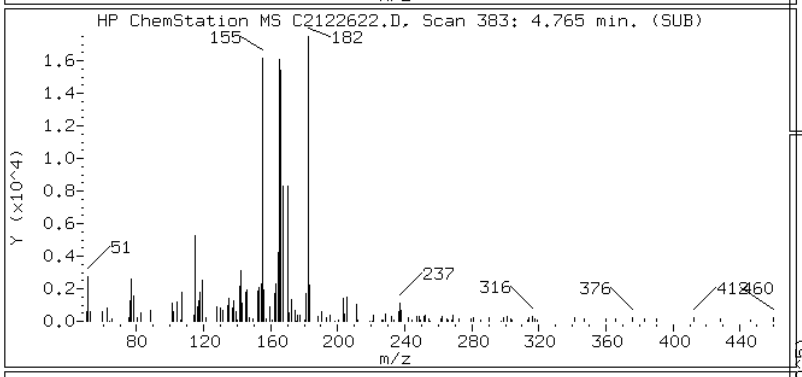
Date: 26-DEC-2012 19:43

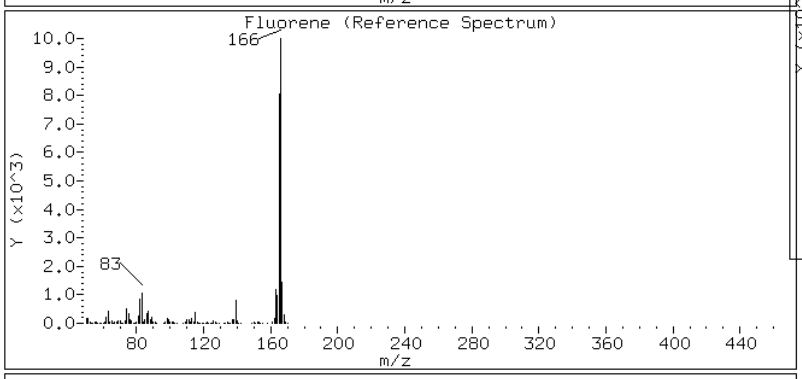
Client ID: CV0705C-GS Instrument: TSMC5973.i

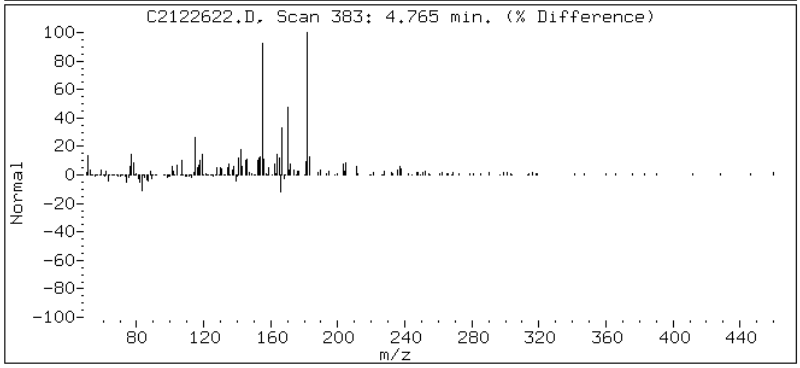
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

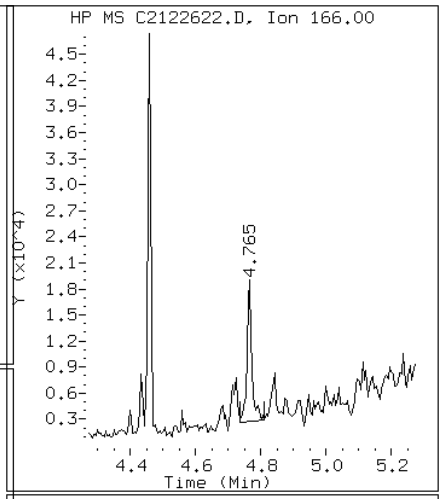
8 Fluorene

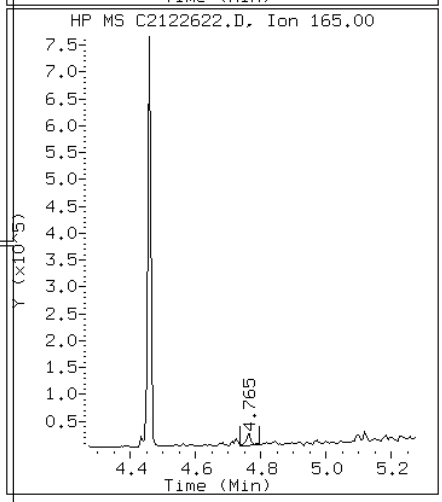












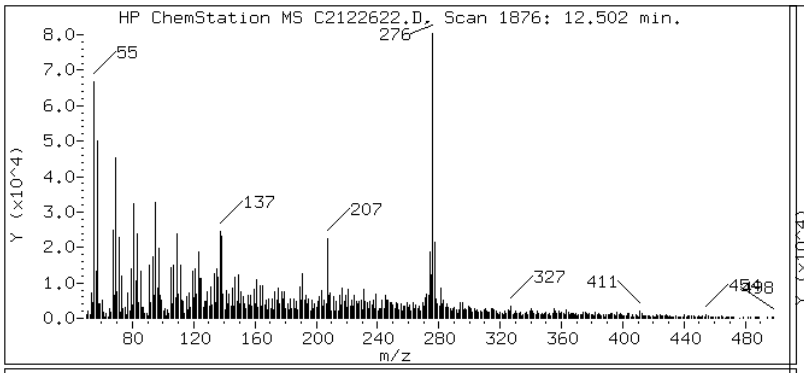
Data File: C2122622.D

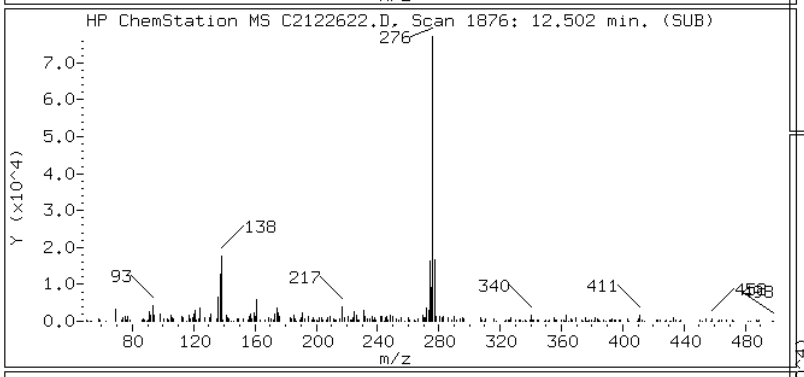
Date: 26-DEC-2012 19:43

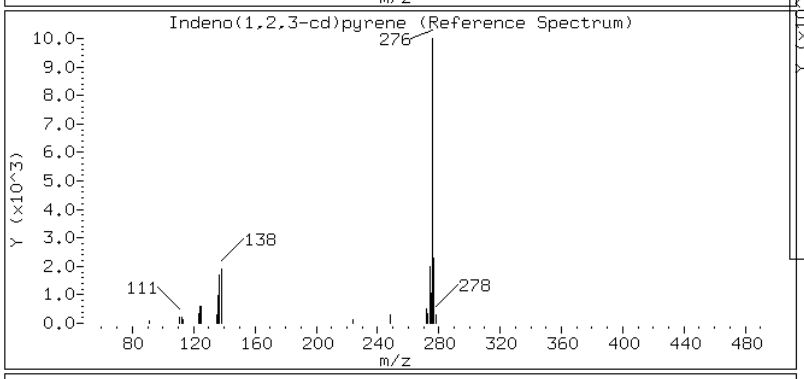
Client ID: CV0705C-GS Instrument: TSMC5973.i

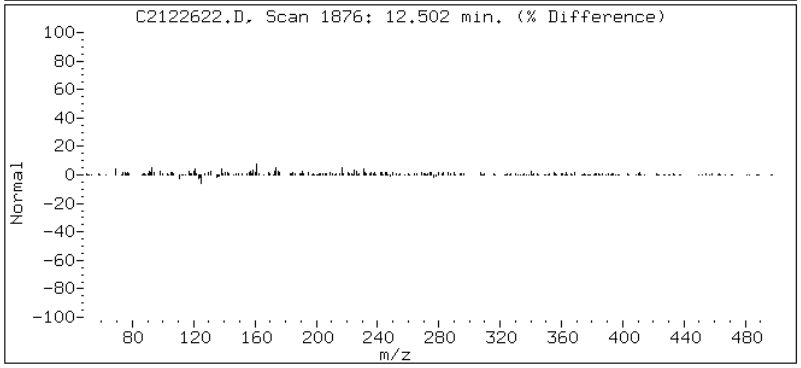
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

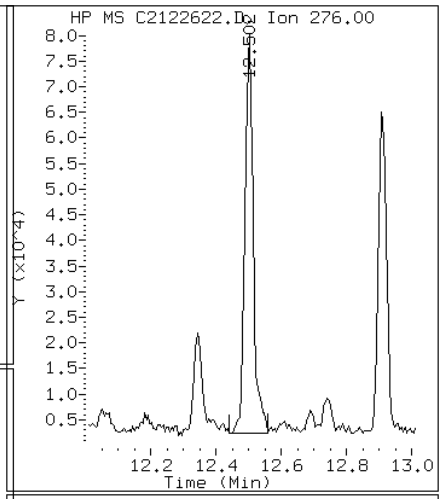
22 Indeno(1,2,3-cd)pyrene

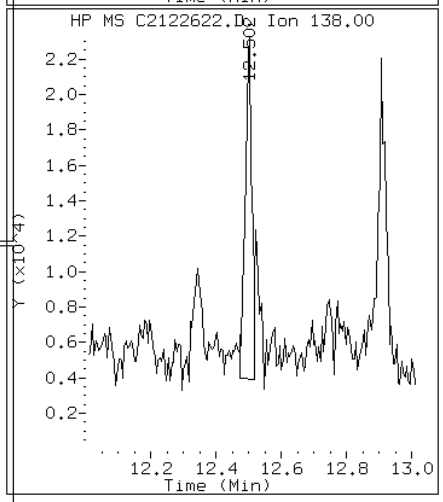












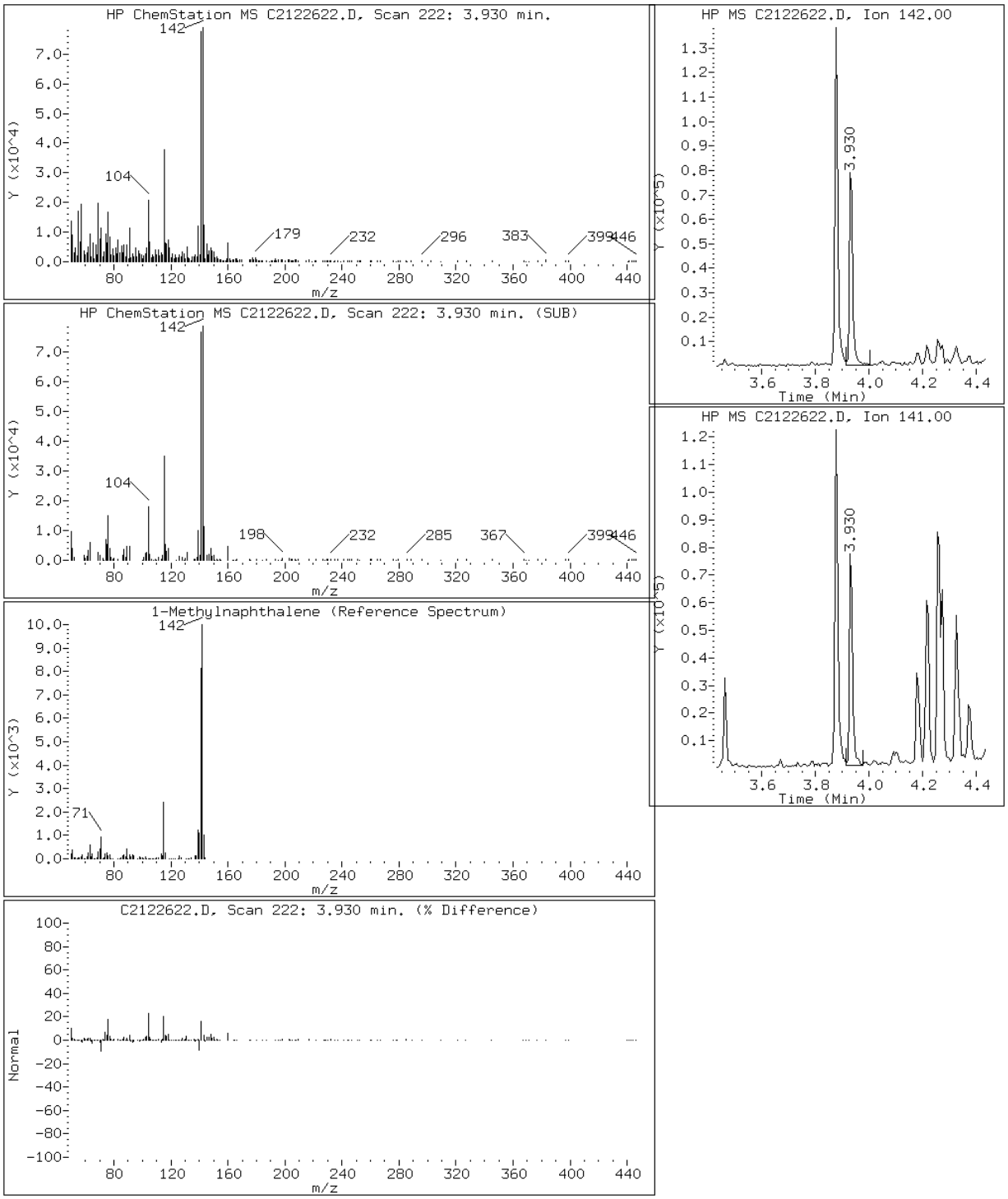
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene



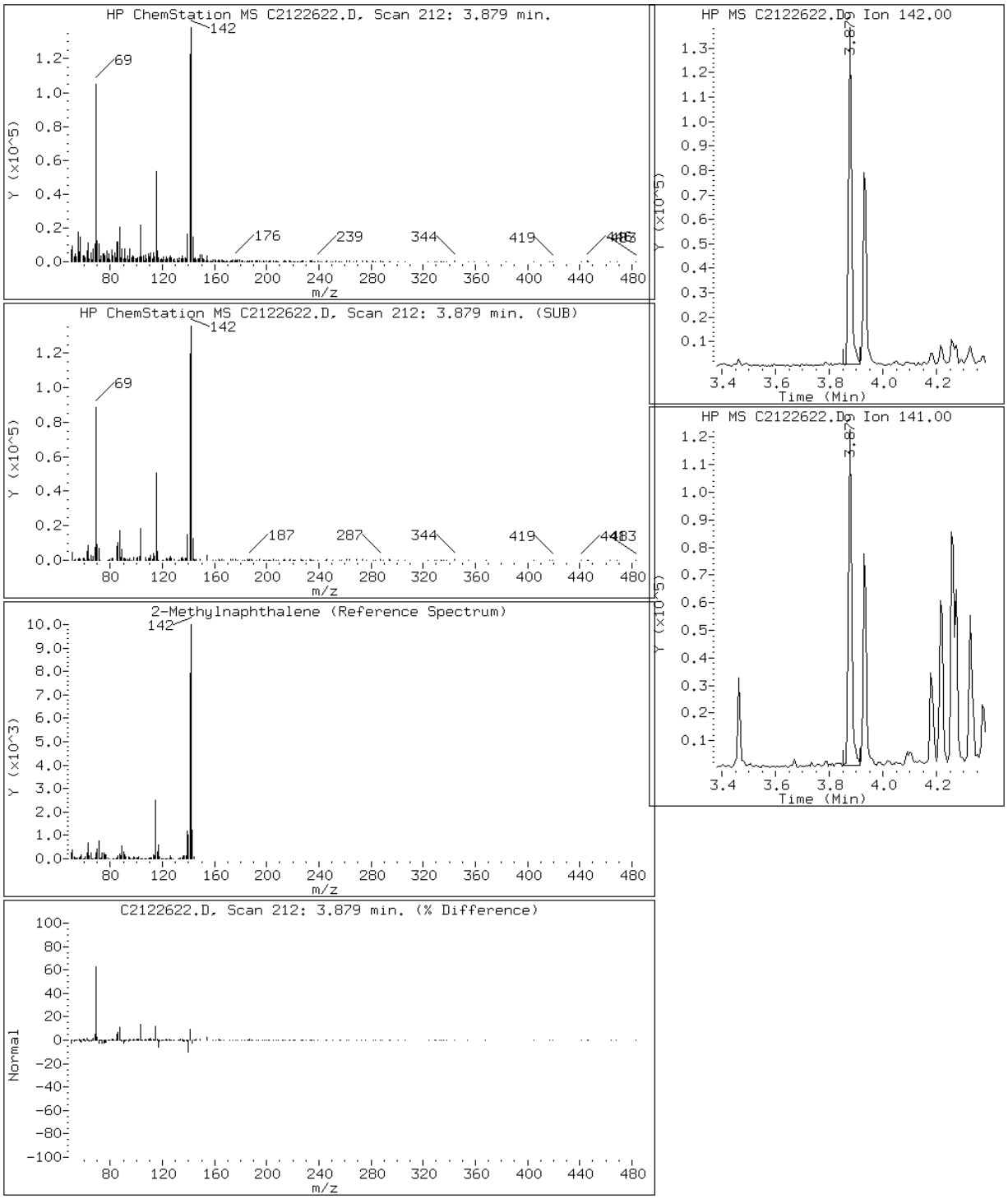
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



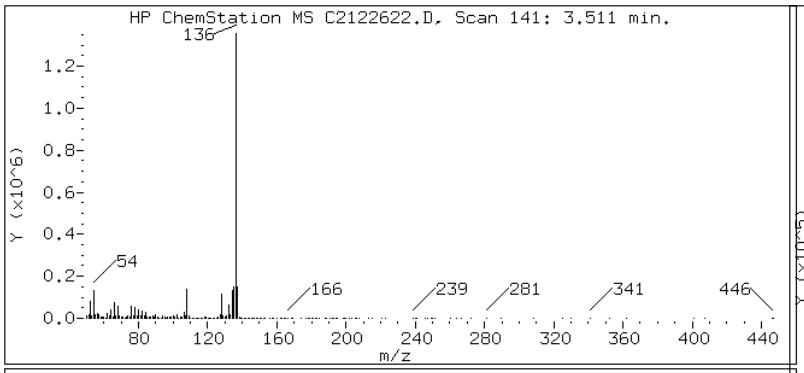
Data File: C2122622.D

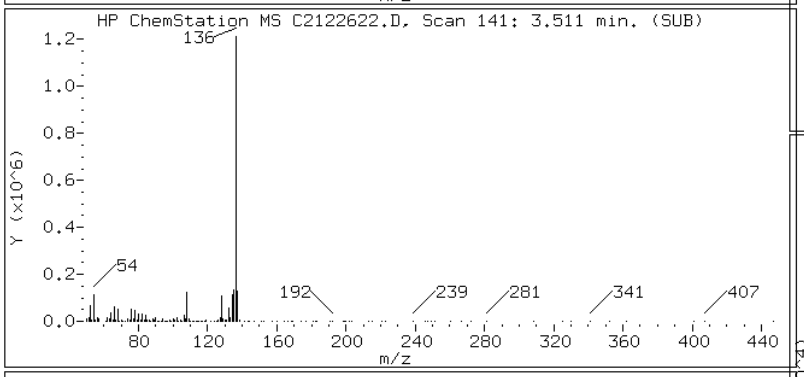
Date: 26-DEC-2012 19:43

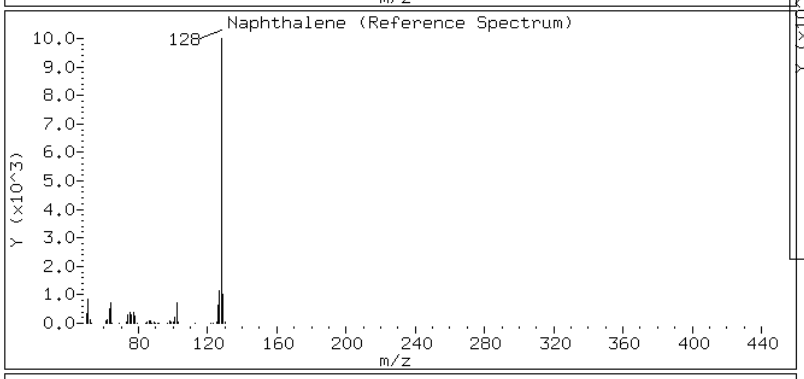
Client ID: CV0705C-GS Instrument: TSMC5973.i

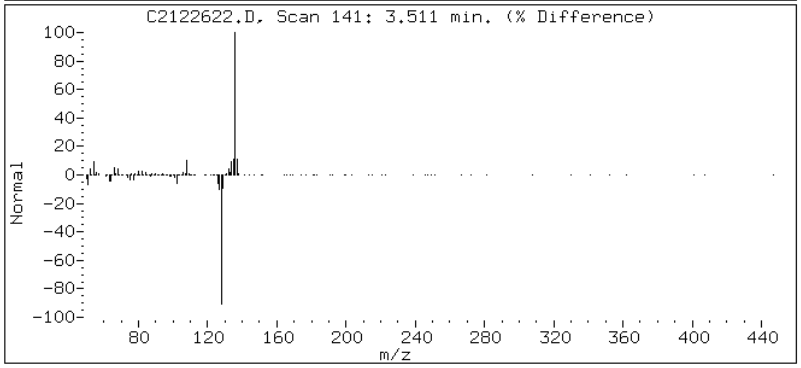
Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

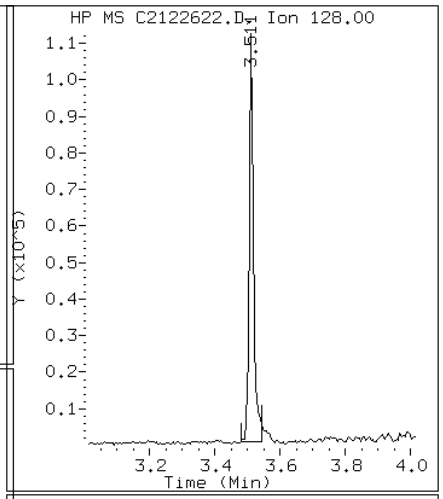
2 Naphthalene

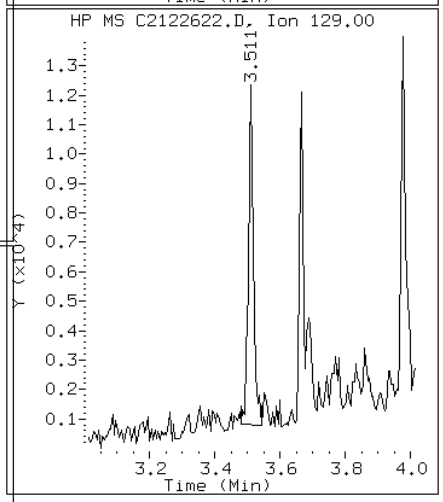












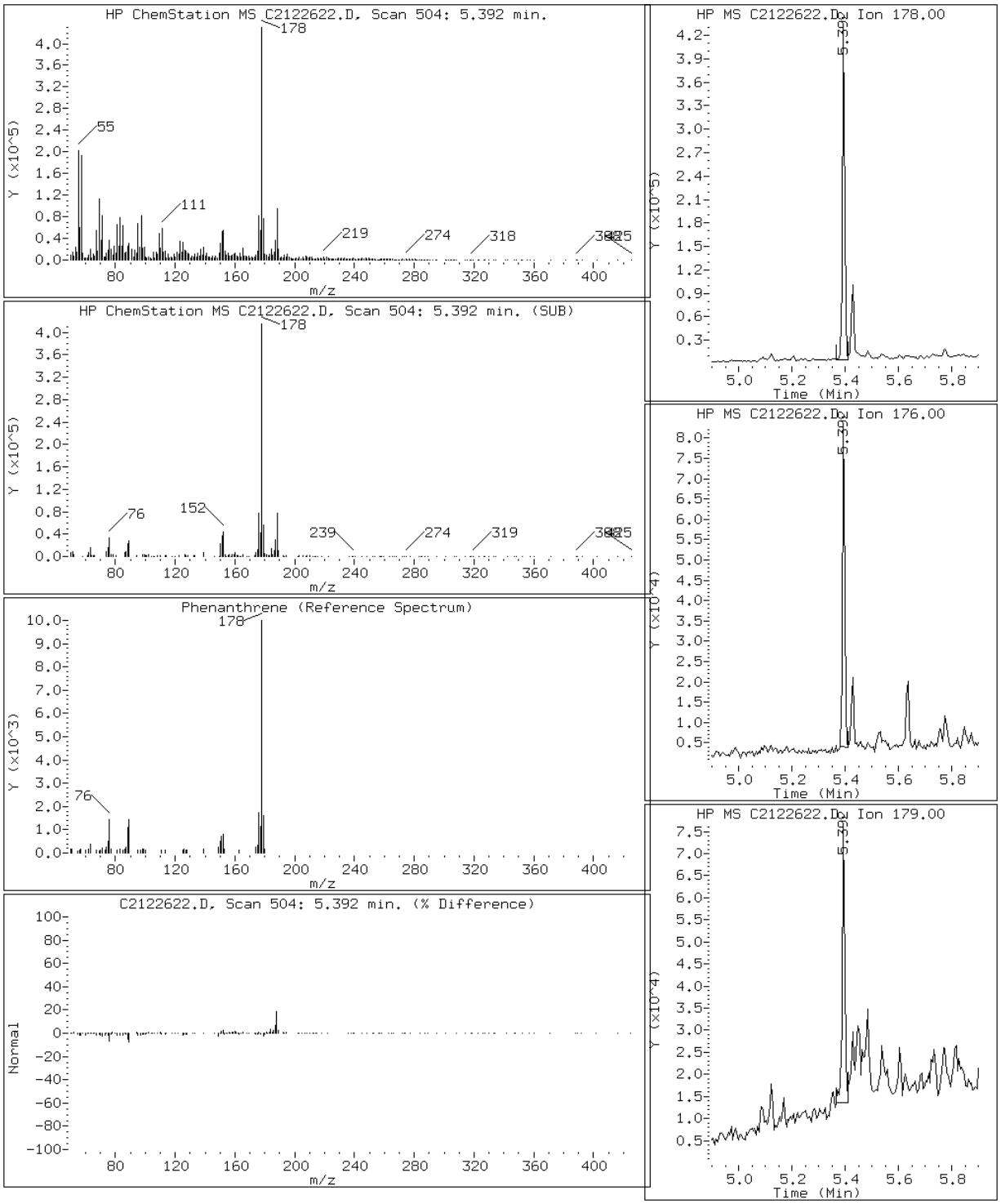
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



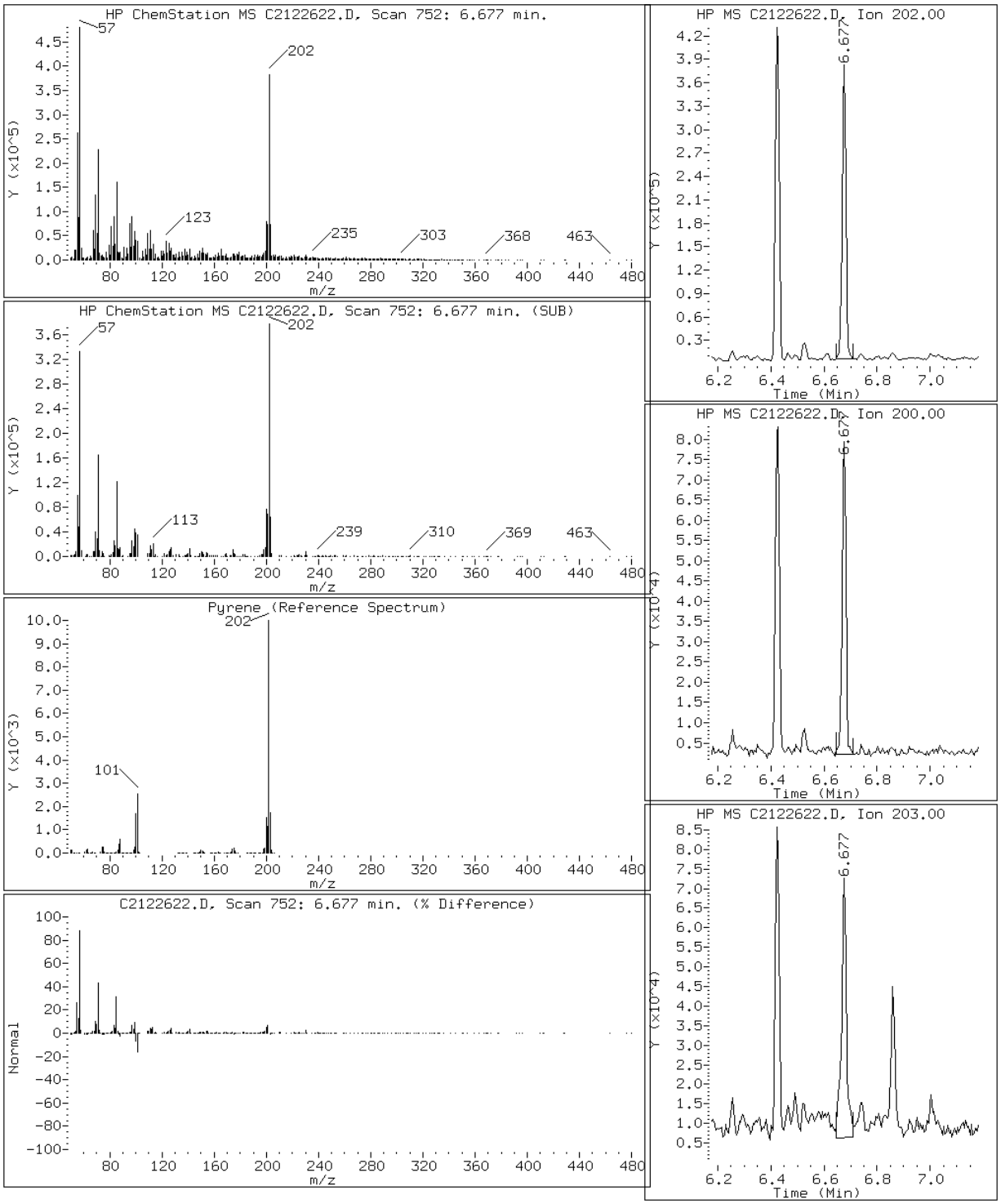
Data File: C2122622.D

Date: 26-DEC-2012 19:43

Client ID: CV0705C-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-24-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122622.D
Inj. Date and Time: 26-DEC-2012 19:43
Instrument ID: TSMC5973.i
Client ID: CV0705C-GS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

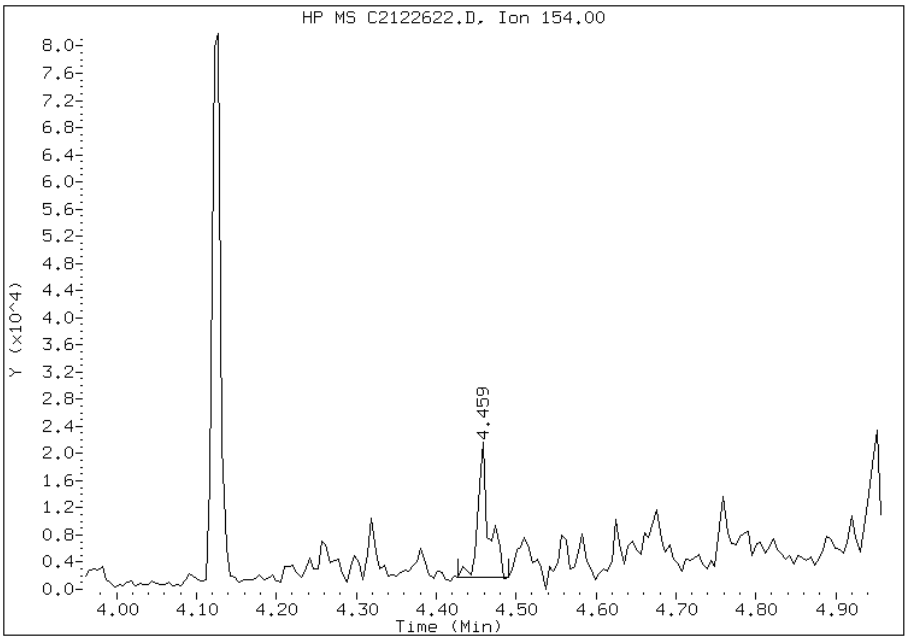
Processing Integration Results

RT: 4.46

Response: 19390

Amount: 0

Conc: 6



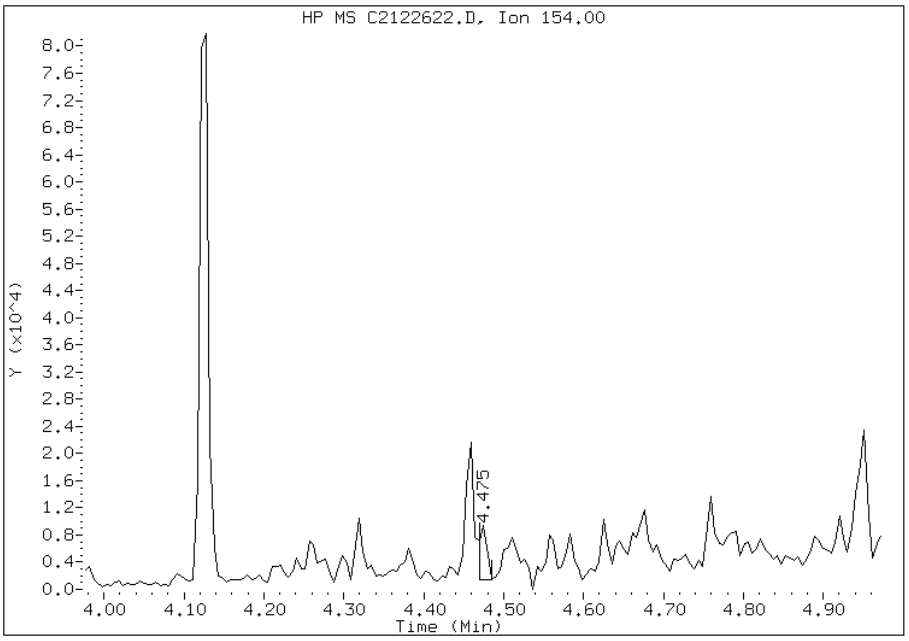
Manual Integration Results

RT: 4.47

Response: 5704

Amount: 0

Conc: 2



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122622.D
Inj. Date and Time: 26-DEC-2012 19:43
Instrument ID: TSMC5973.i
Client ID: CV0705C-GS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

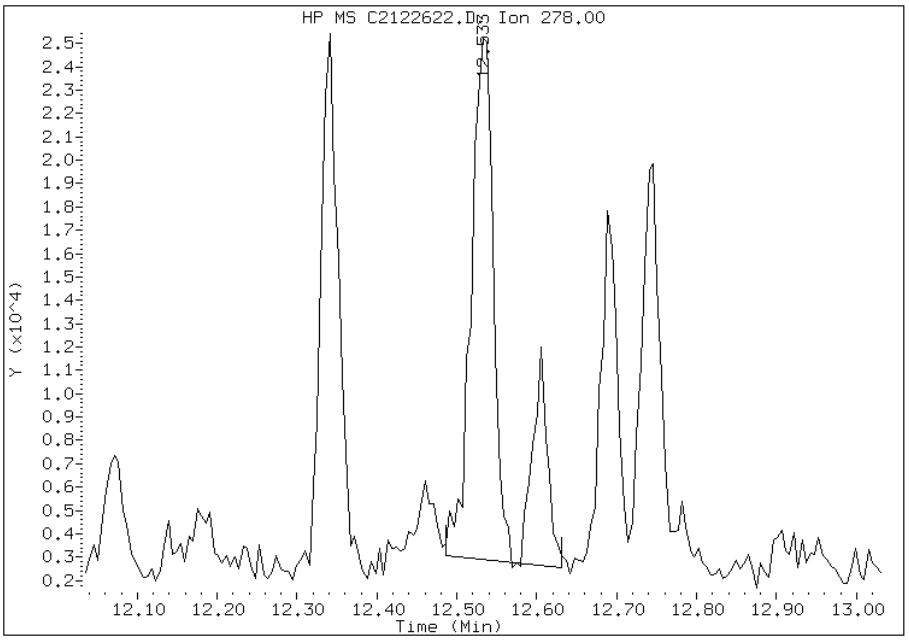
Processing Integration Results

RT: 12.53

Response: 55945

Amount: 0

Conc: 9



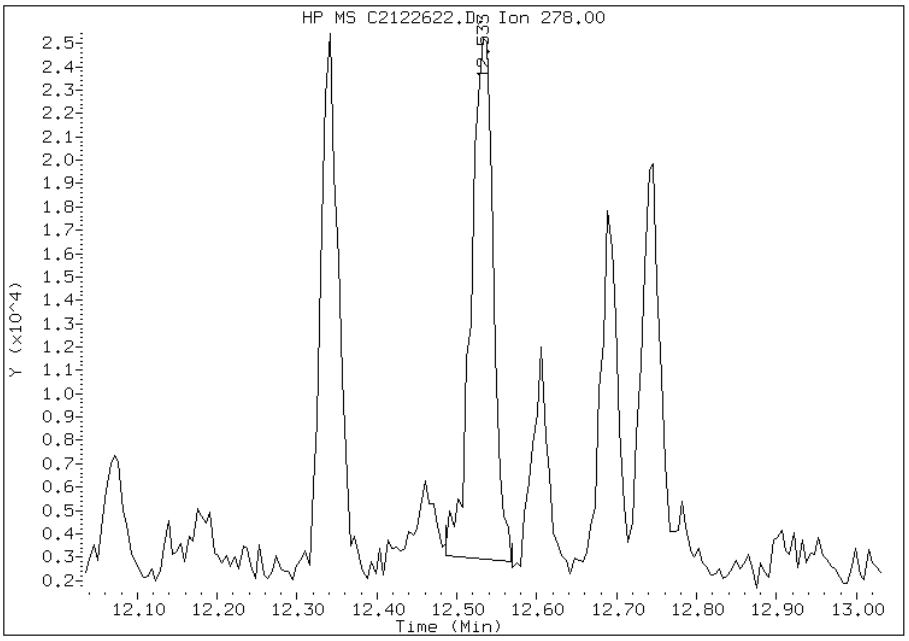
Manual Integration Results

RT: 12.53

Response: 43861

Amount: 0

Conc: 7



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: HP0179A-CS-SP | Lab Sample ID: 680-85785-25

Matrix: Solid | Lab File ID: C2122623.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:42

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.12(g) | Date Analyzed: 12/26/2012 20:02

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 25.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.1	J	8.9	0.77
208-96-8	Acenaphthylene	17		8.9	0.71
120-12-7	Anthracene	31		8.9	0.88
56-55-3	Benzo[a]anthracene	130		8.9	0.83
50-32-8	Benzo[a]pyrene	140		8.9	0.91
205-99-2	Benzo[b]fluoranthene	240		8.9	1.3
191-24-2	Benzo[g,h,i]perylene	53		8.9	1.5
207-08-9	Benzo[k]fluoranthene	85		8.9	0.85
218-01-9	Chrysene	170		8.9	1.0
53-70-3	Dibenz(a,h)anthracene	20		8.9	0.87
206-44-0	Fluoranthene	250		8.9	0.80
86-73-7	Fluorene	8.2	J	8.9	0.69
193-39-5	Indeno[1,2,3-cd]pyrene	64		8.9	1.5
90-12-0	1-Methylnaphthalene	21		8.9	0.71
91-57-6	2-Methylnaphthalene	27		8.9	0.69
91-20-3	Naphthalene	21		8.9	0.69
85-01-8	Phenanthrene	140		8.9	0.59
129-00-0	Pyrene	170		8.9	0.69

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	87		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122623.D
Lab Smp Id: 680-85785-A-25-A Client Smp ID: HP0179A-CS-SP
Inj Date : 26-DEC-2012 20:02
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-25-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.293	3.303	(0.941)	178623	2.39219	79	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	6939384	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	80522	0.47482	16	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	76915	0.59764	20	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	60925	0.48261	16	
* 5 Acenaphthene-d10	164	4.459	4.464	(1.000)	3952344	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	79077	0.37234	12	
7 Acenaphthene	154	4.474	4.479	(1.003)	17832	0.16049	5.3(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	27439	0.18499	6.1(a)	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6458798	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	577654	3.19604	110	
11 Anthracene	178	5.428	5.438	(1.009)	136829	0.69505	23	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	410646	3.48696	120	
13 Fluoranthene	202	6.423	6.433	(1.194)	1334722	5.54086	180	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7872098	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	1159631	3.93197	130	
16 Benzo(a)anthracene	228	8.309	8.309	(0.997)	783886	2.88634	96	
17 Chrysene	228	8.366	8.371	(1.004)	909554	3.89663	130	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	7273923	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.937)	1245678	5.37581	180	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.941)	433183	1.91927	64	
21 Benzo(a)pyrene	252	10.651	10.656	(0.988)	664515	3.22202	110	
22 Indeno(1,2,3-cd)pyrene	276	12.501	12.512	(1.160)	317289	1.44434	48(M)	SP
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.163)	100172	0.46080	15(QM)	SP
24 Benzo(g,h,i)perylene	276	12.911	12.921	(1.198)	261861	1.19921	40	

QC Flag Legend

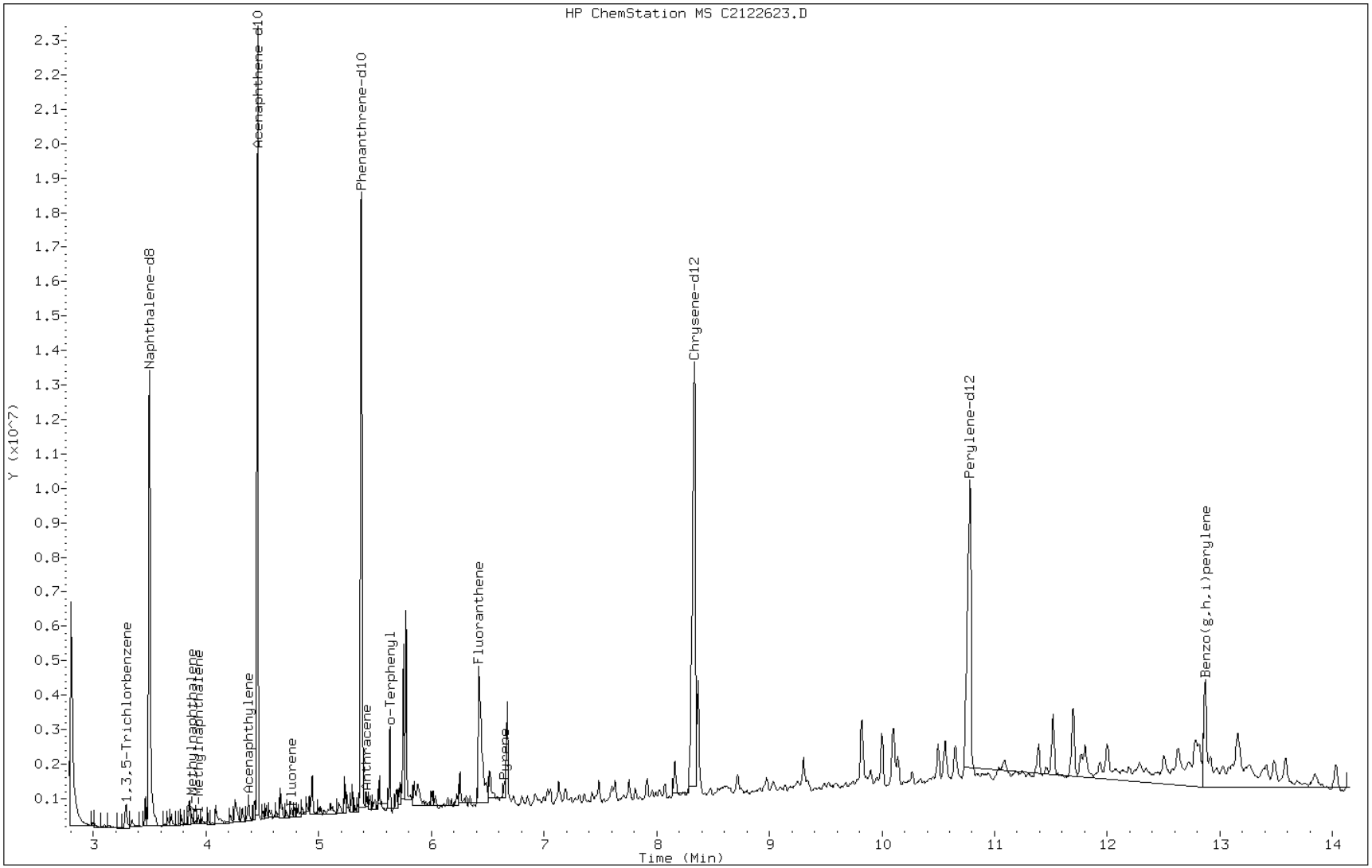
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW



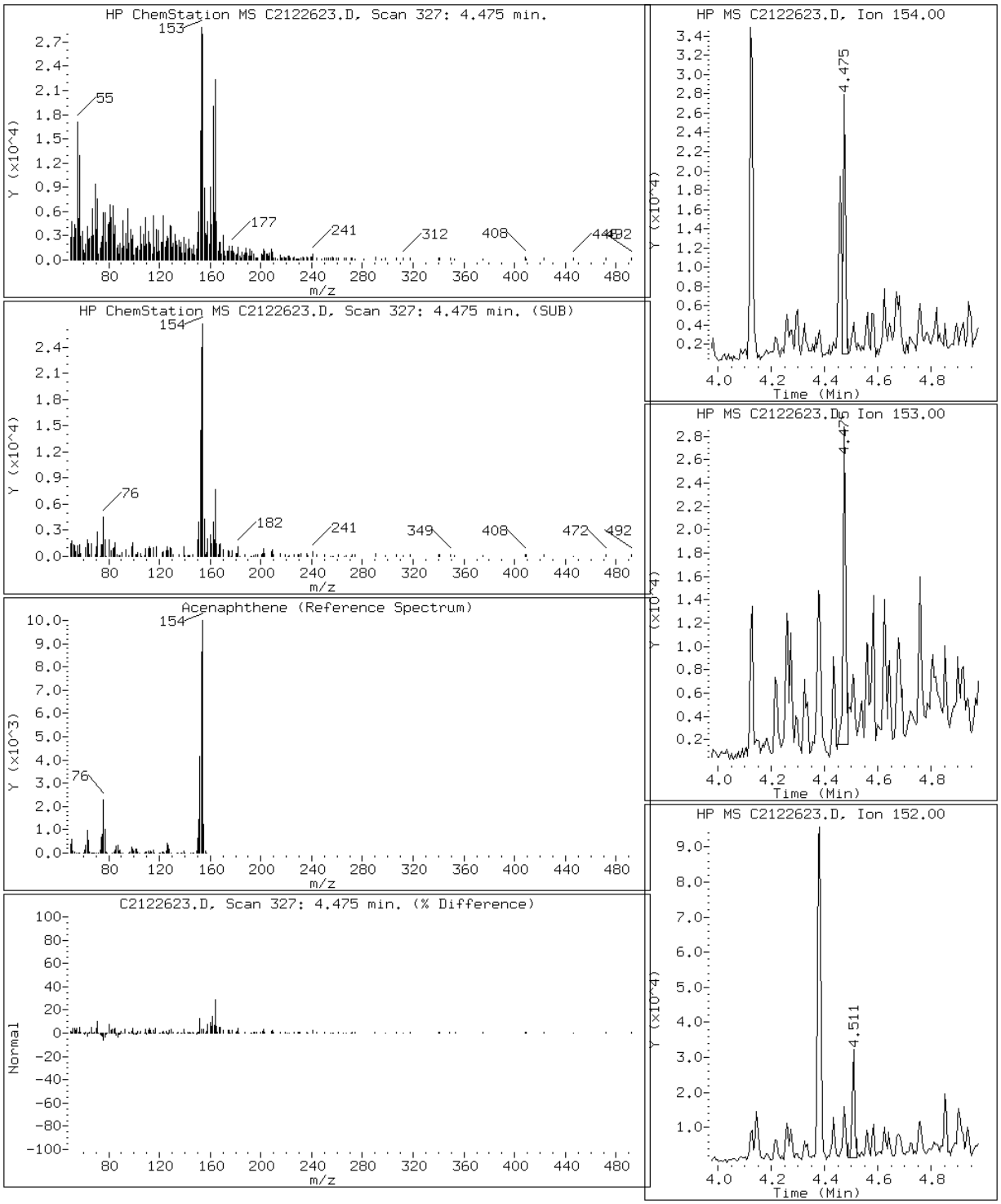
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



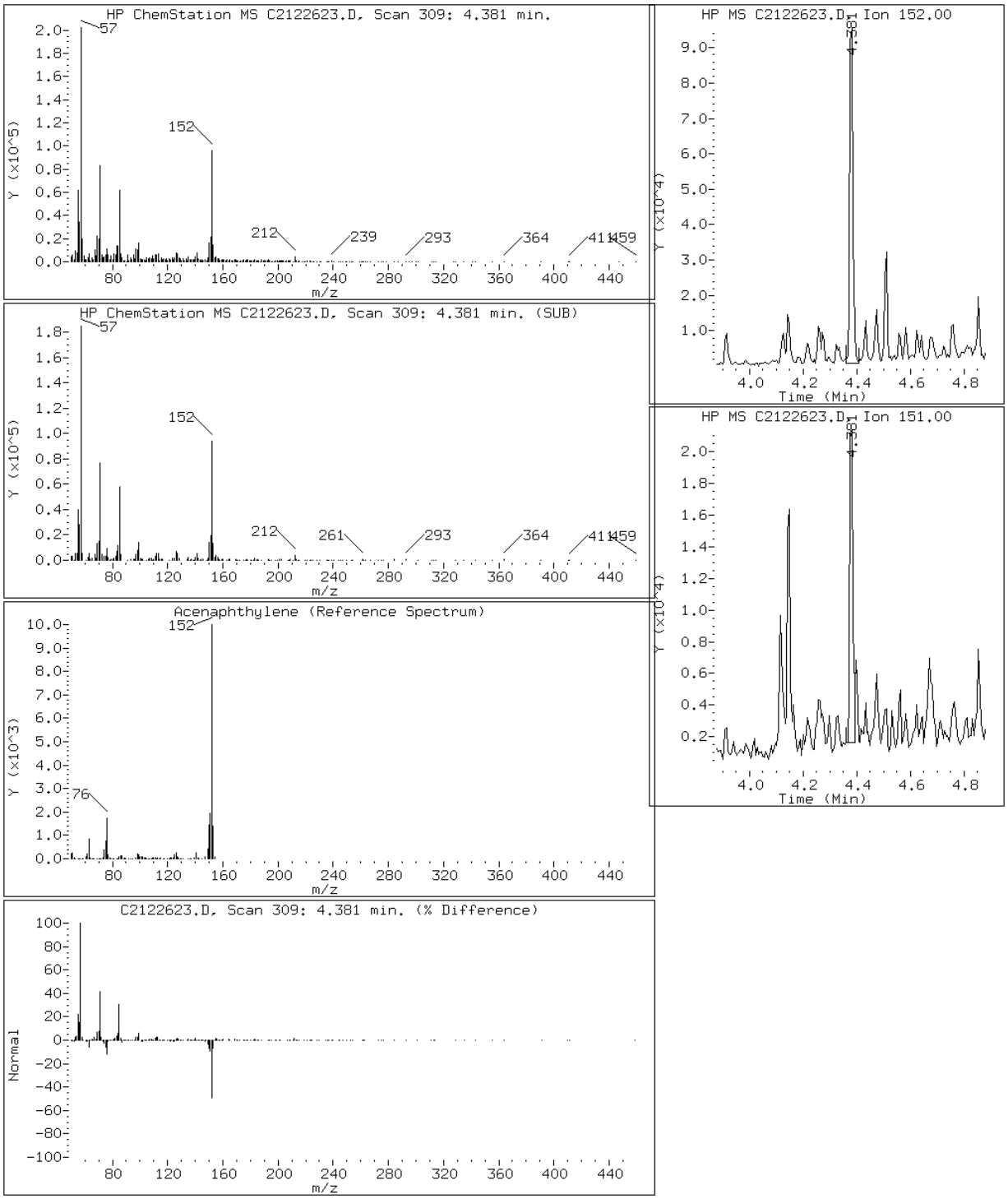
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

6 Acenaphthylene



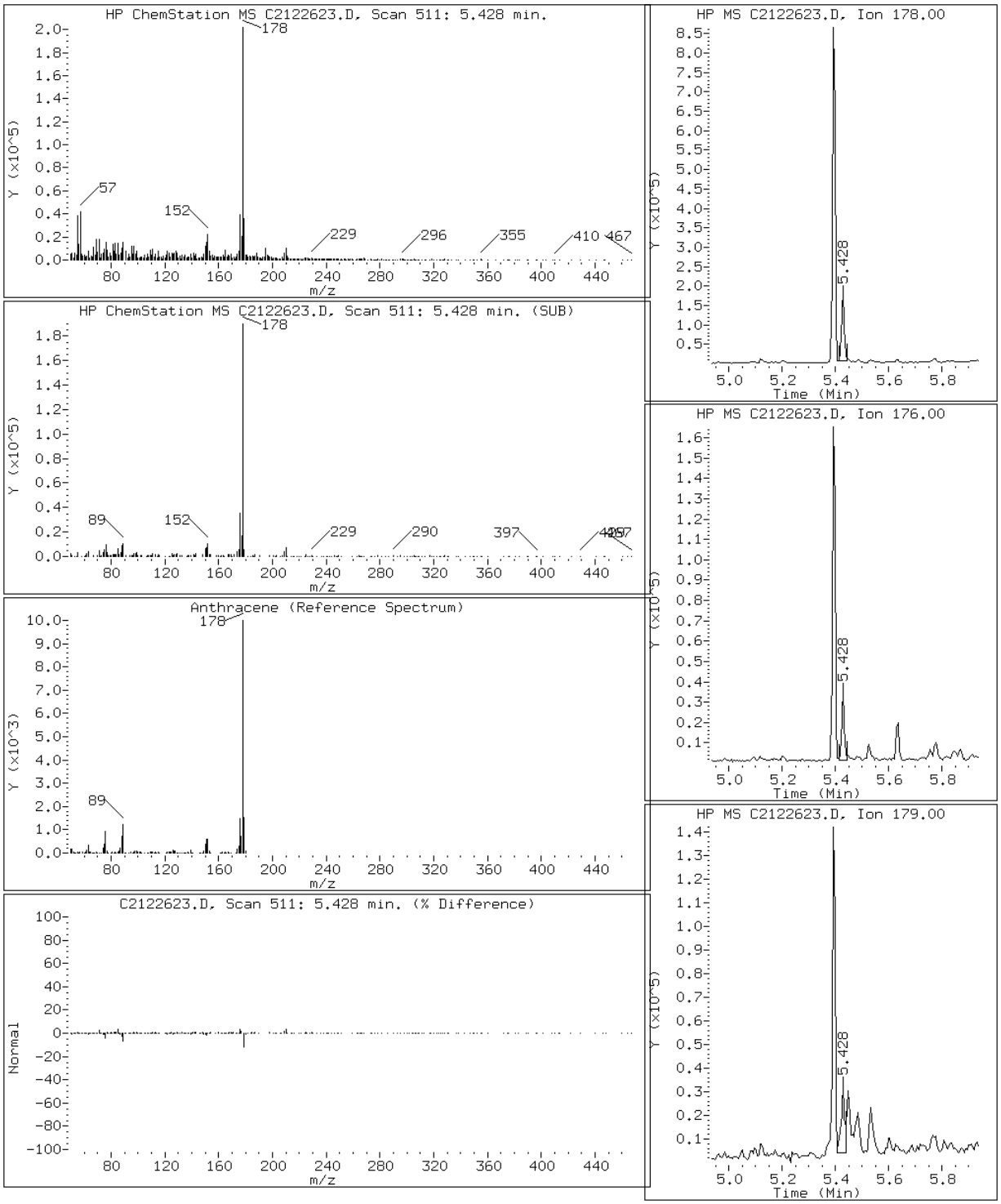
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

11 Anthracene



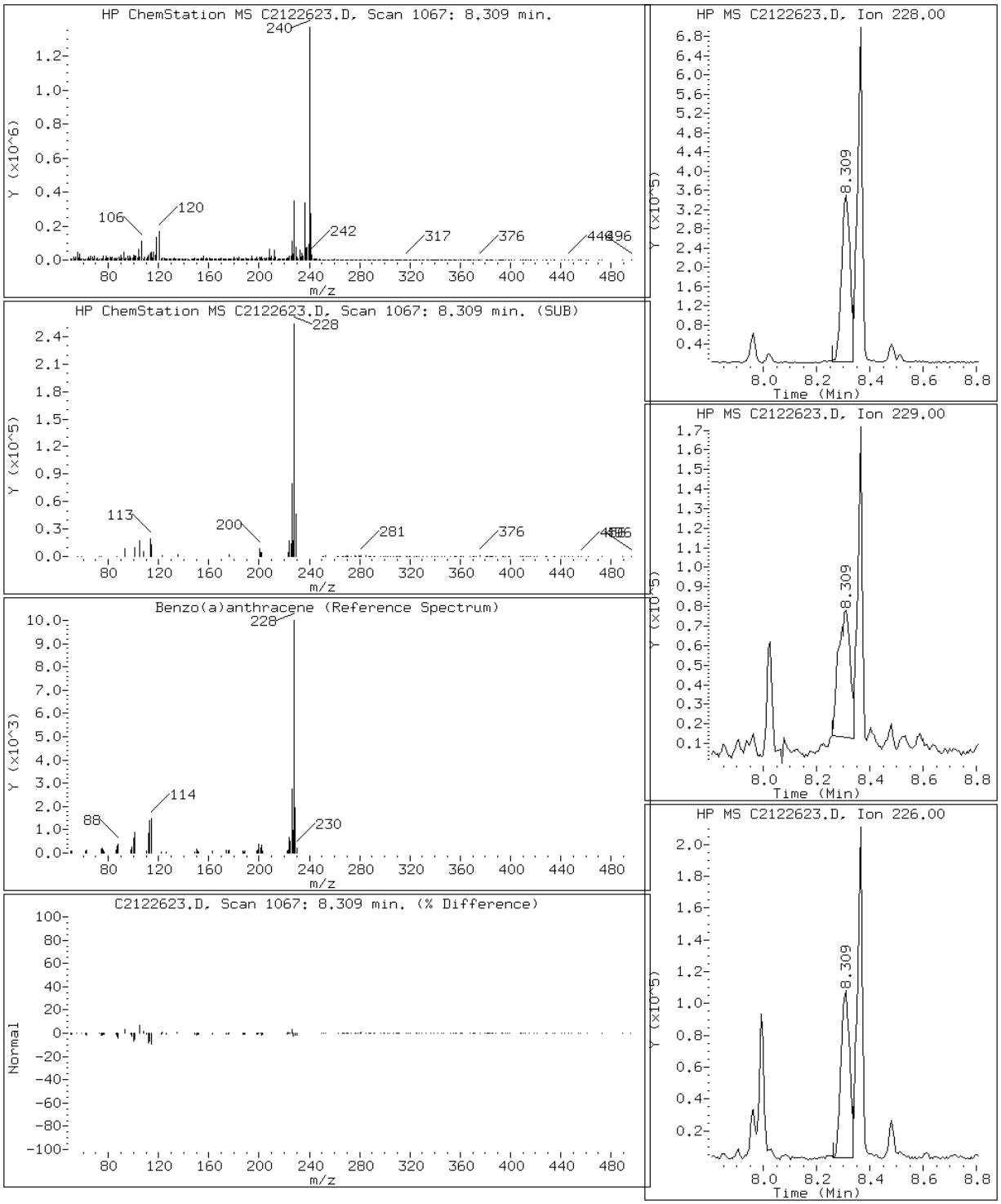
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



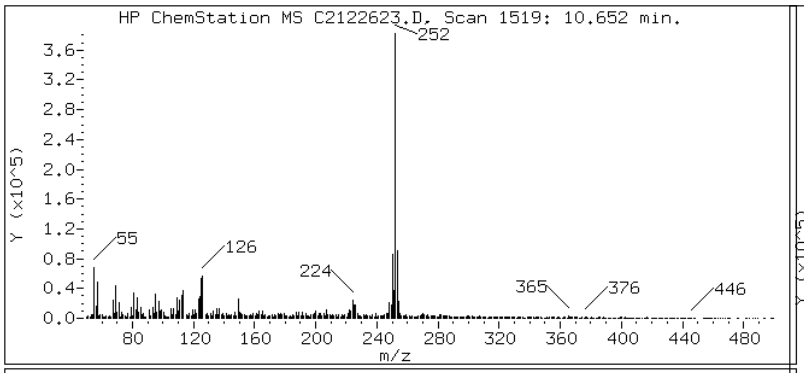
Data File: C2122623.D

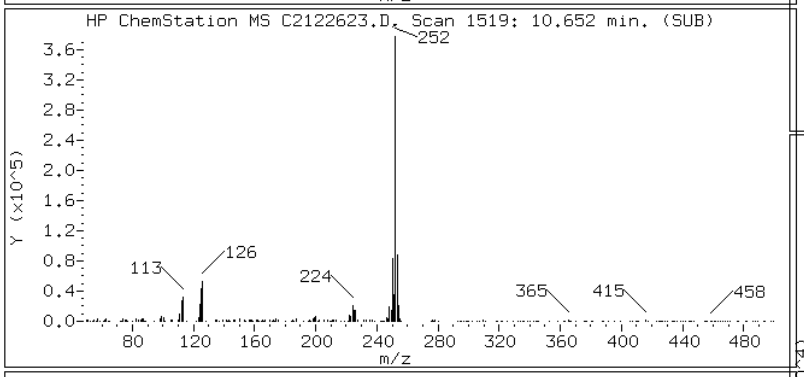
Date: 26-DEC-2012 20:02

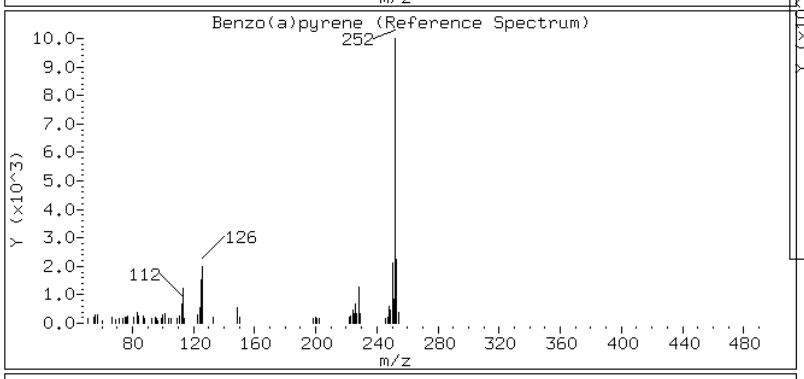
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

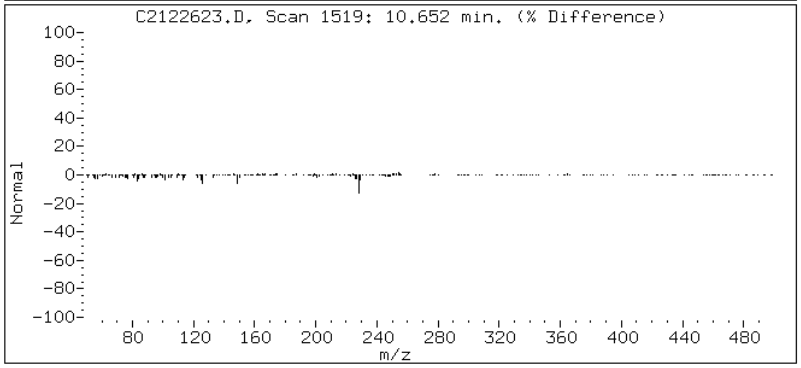
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

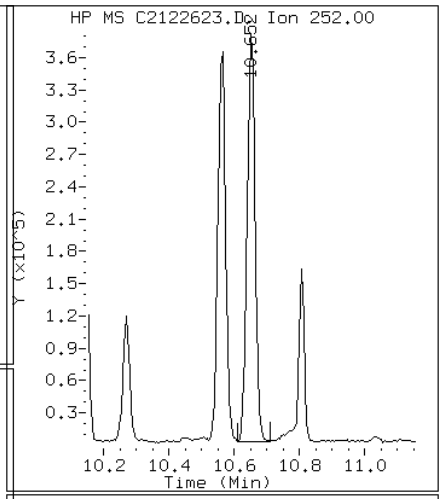
21 Benzo(a)pyrene

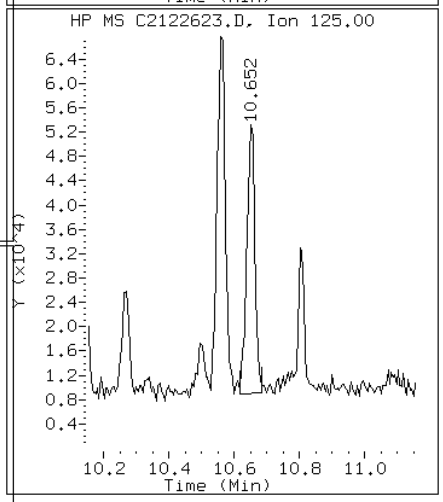












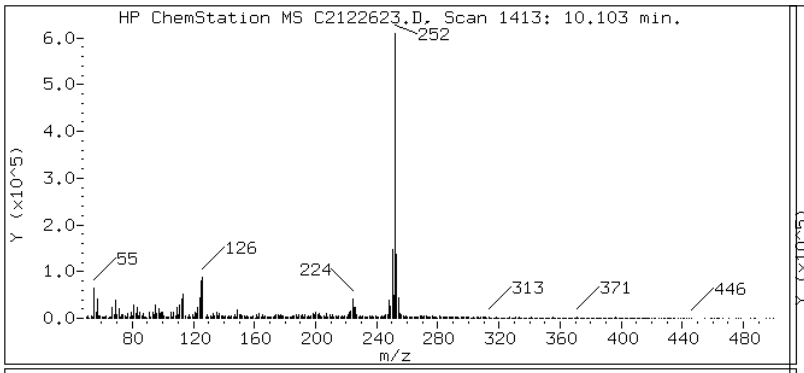
Data File: C2122623.D

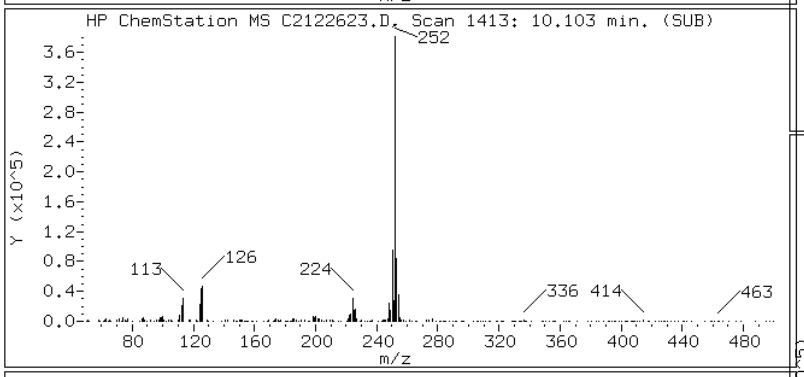
Date: 26-DEC-2012 20:02

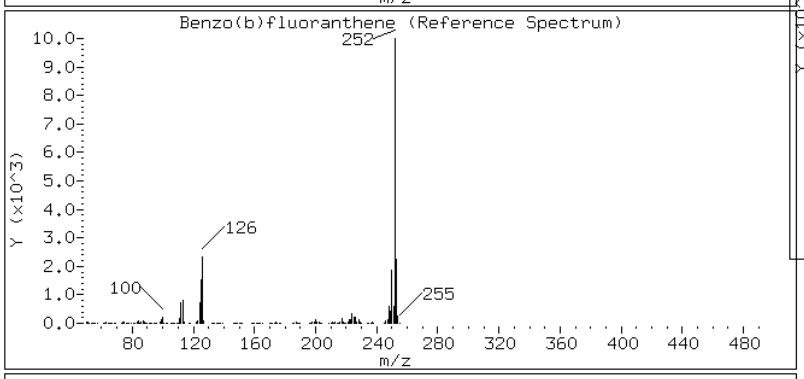
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

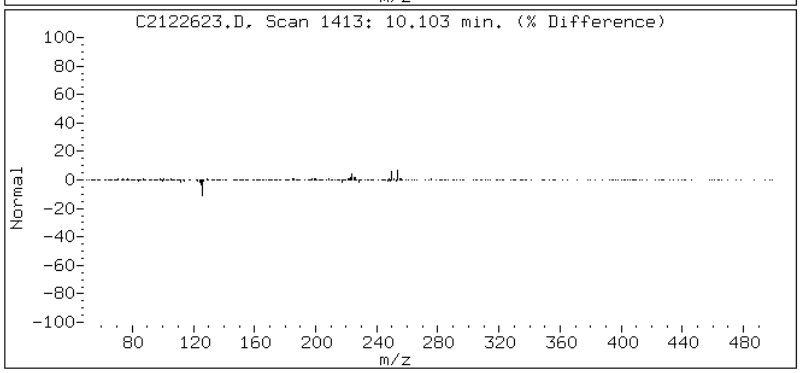
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

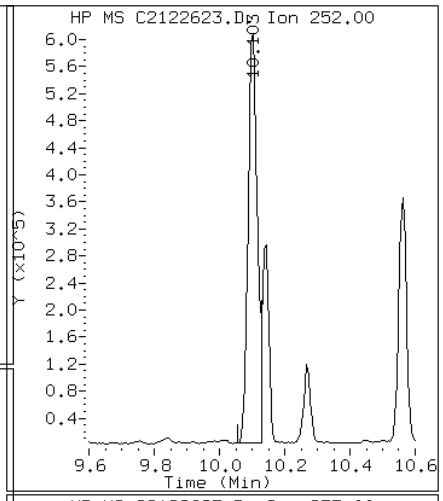
19 Benzo(b)fluoranthene

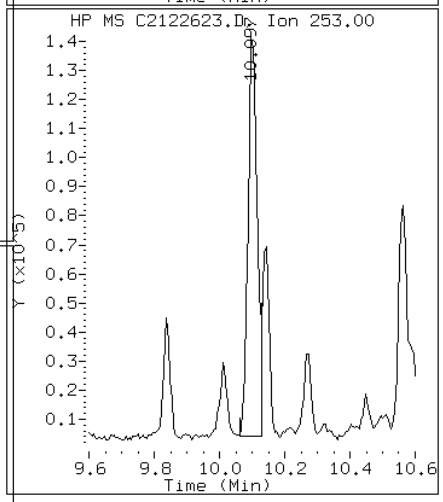












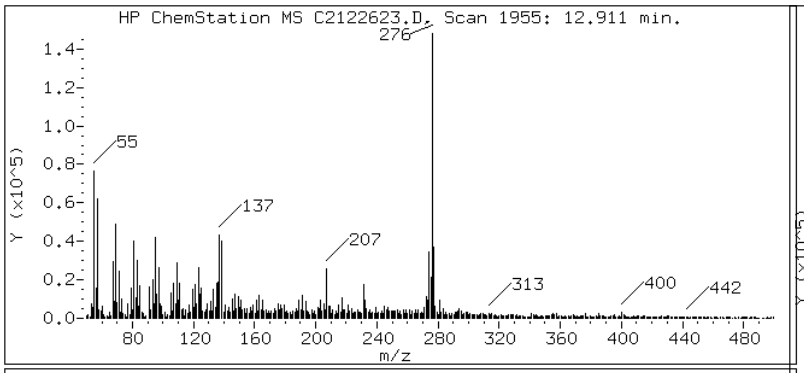
Data File: C2122623.D

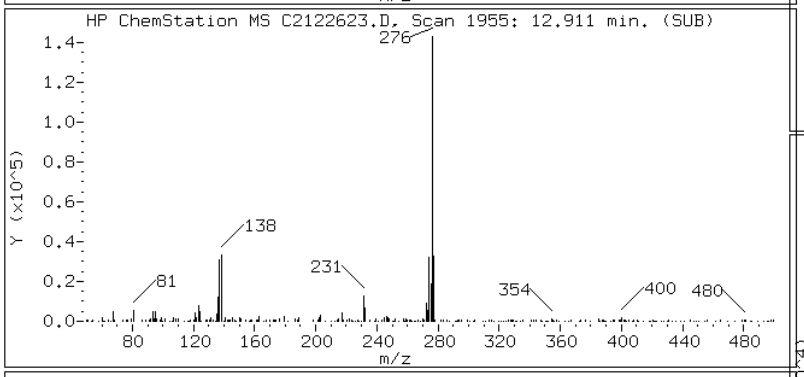
Date: 26-DEC-2012 20:02

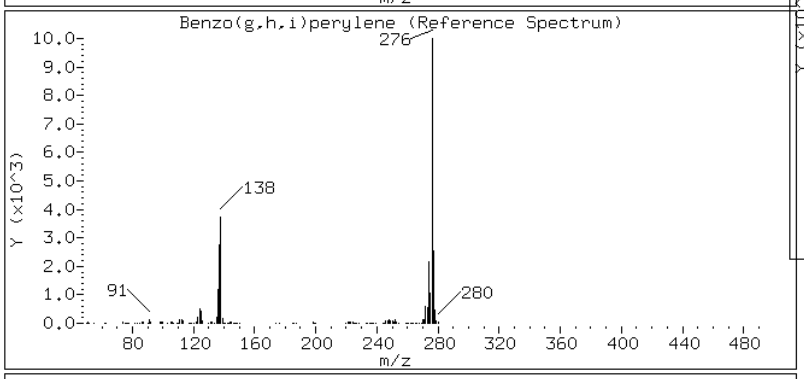
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

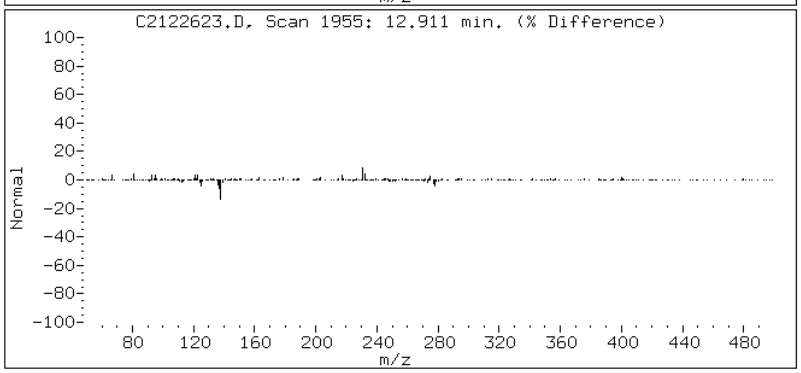
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

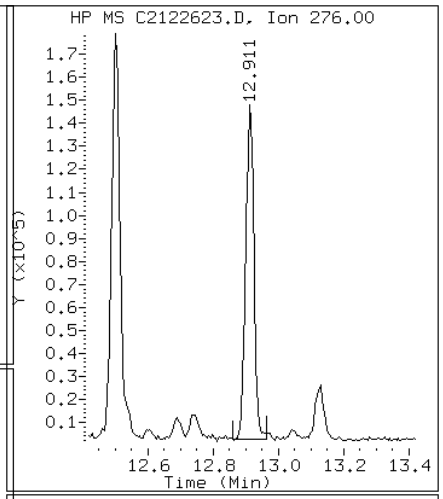
24 Benzo(g,h,i)perylene

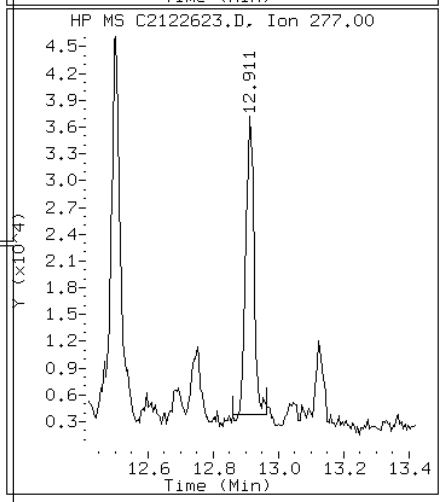












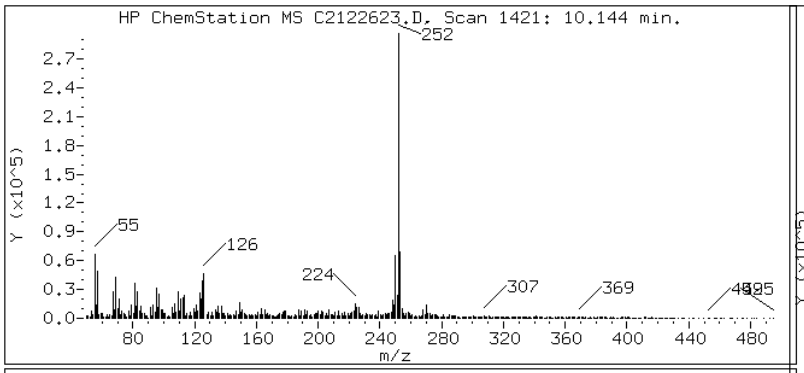
Data File: C2122623.D

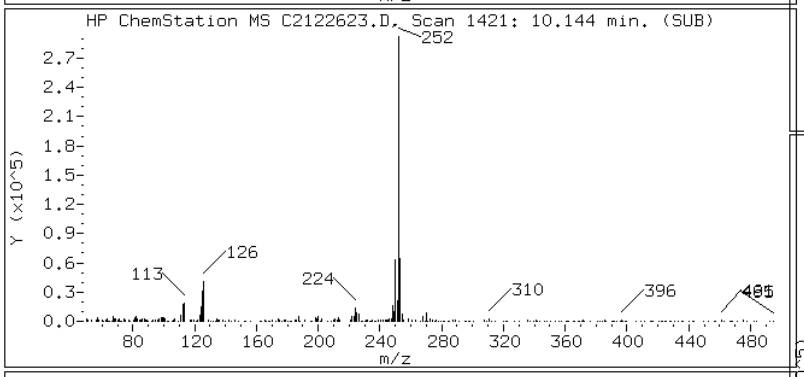
Date: 26-DEC-2012 20:02

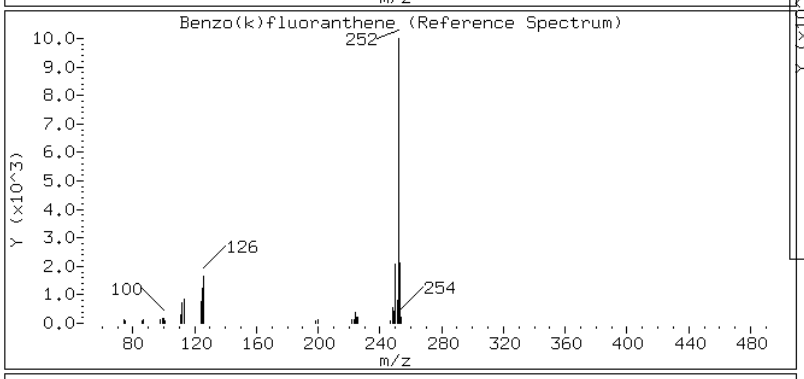
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

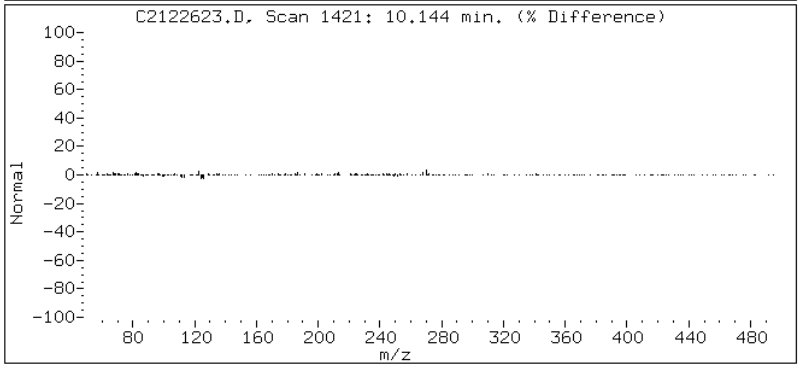
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

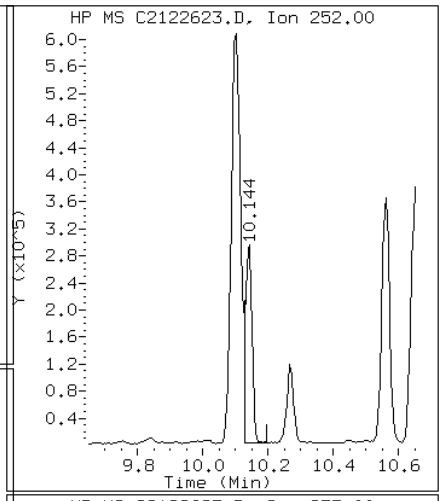
20 Benzo(k)fluoranthene

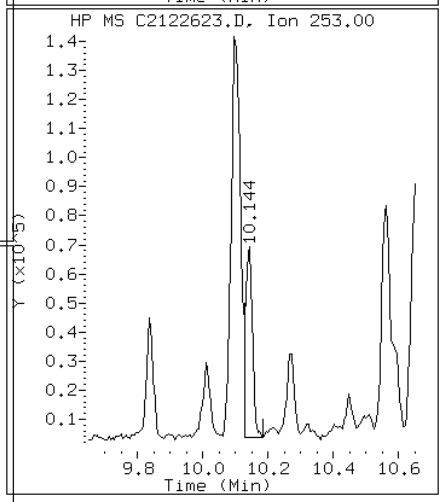












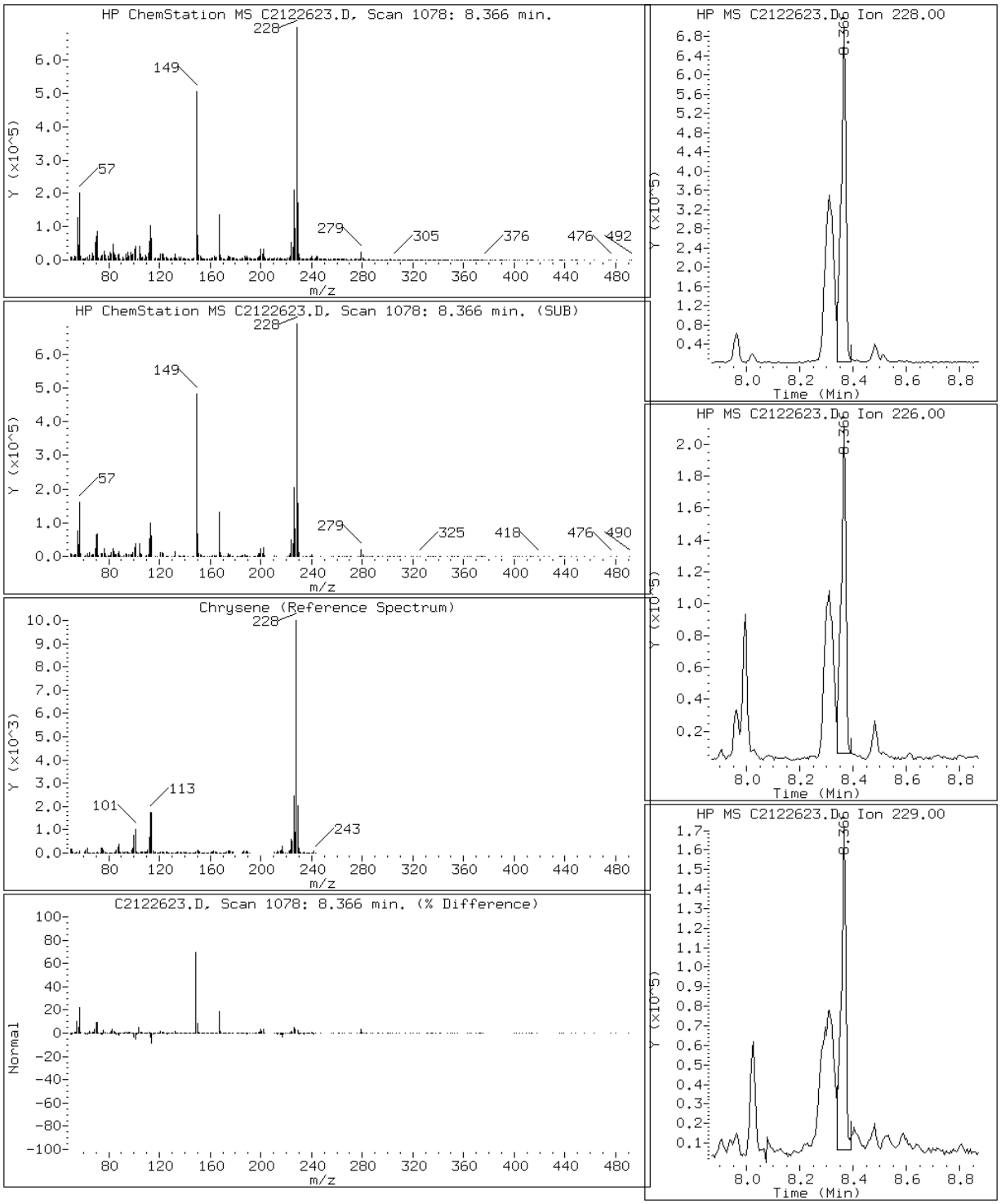
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

17 Chrysene



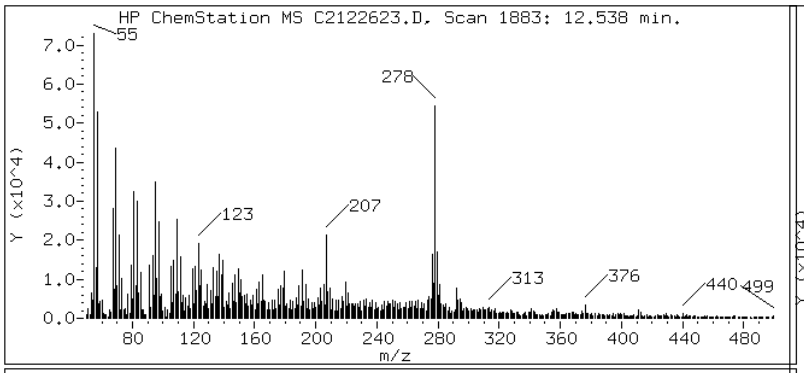
Data File: C2122623.D

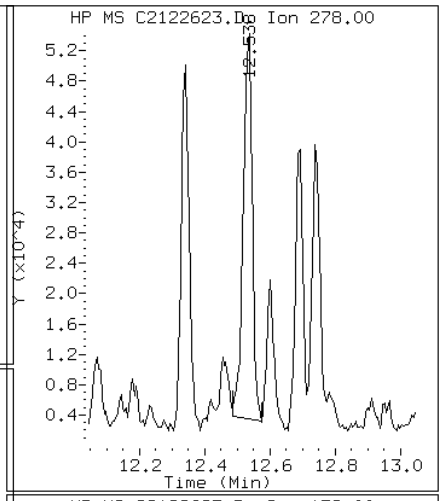
Date: 26-DEC-2012 20:02

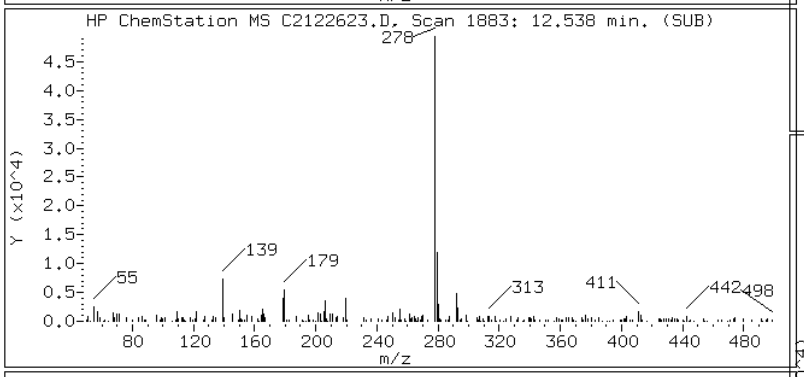
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

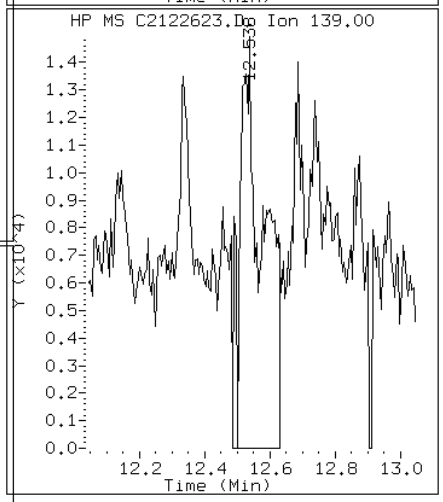
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

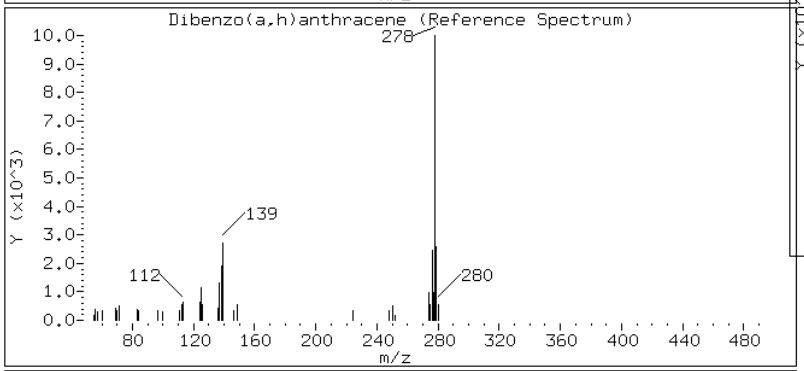
23 Dibenzo(a,h)anthracene

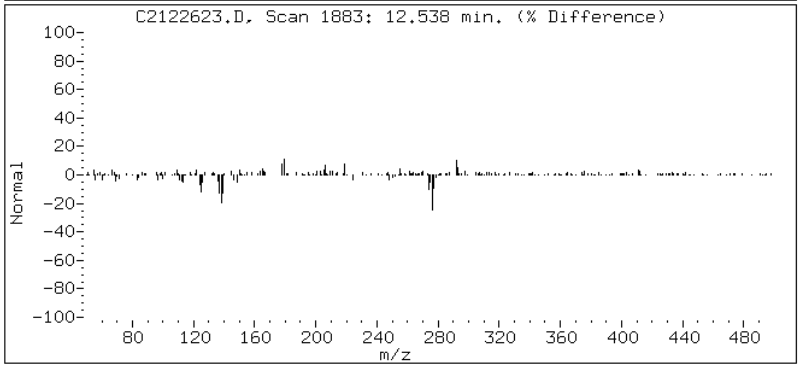












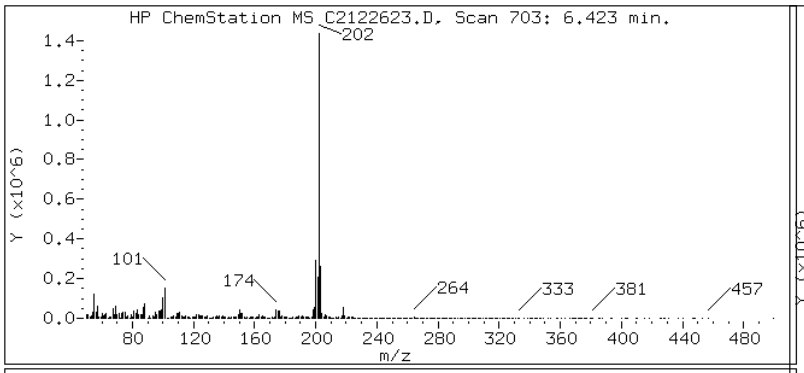
Data File: C2122623.D

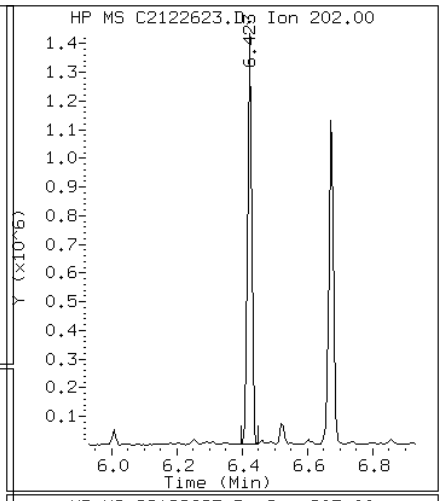
Date: 26-DEC-2012 20:02

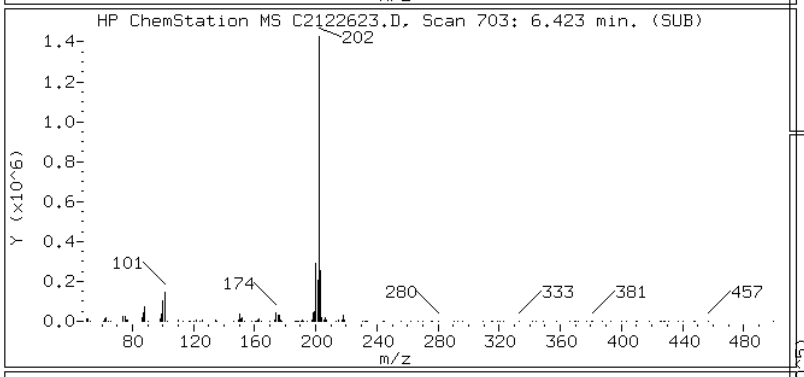
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

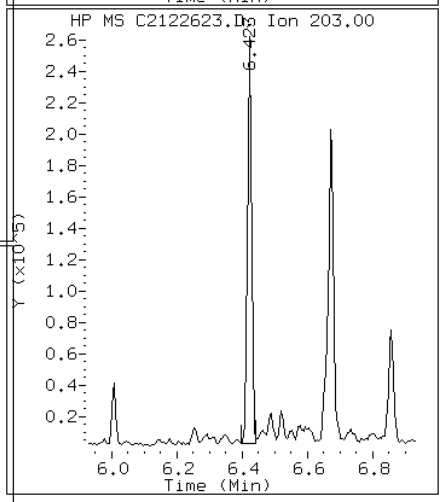
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

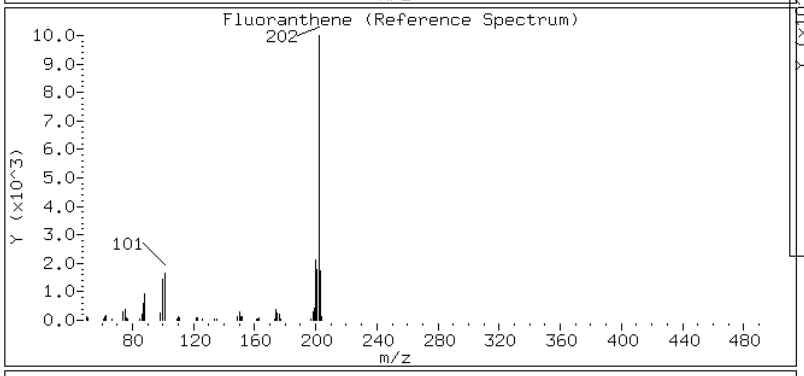
13 Fluoranthene

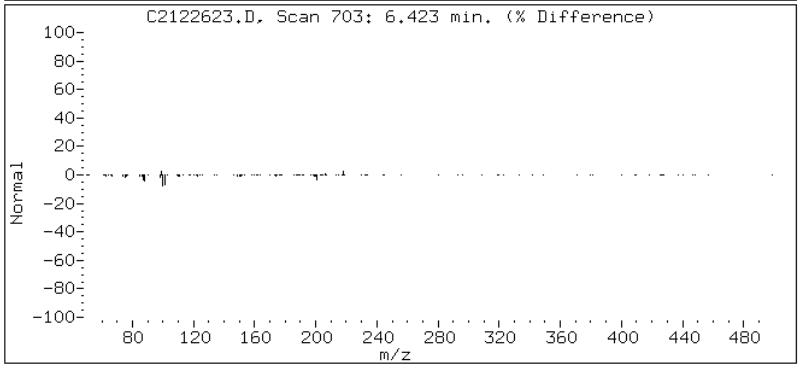












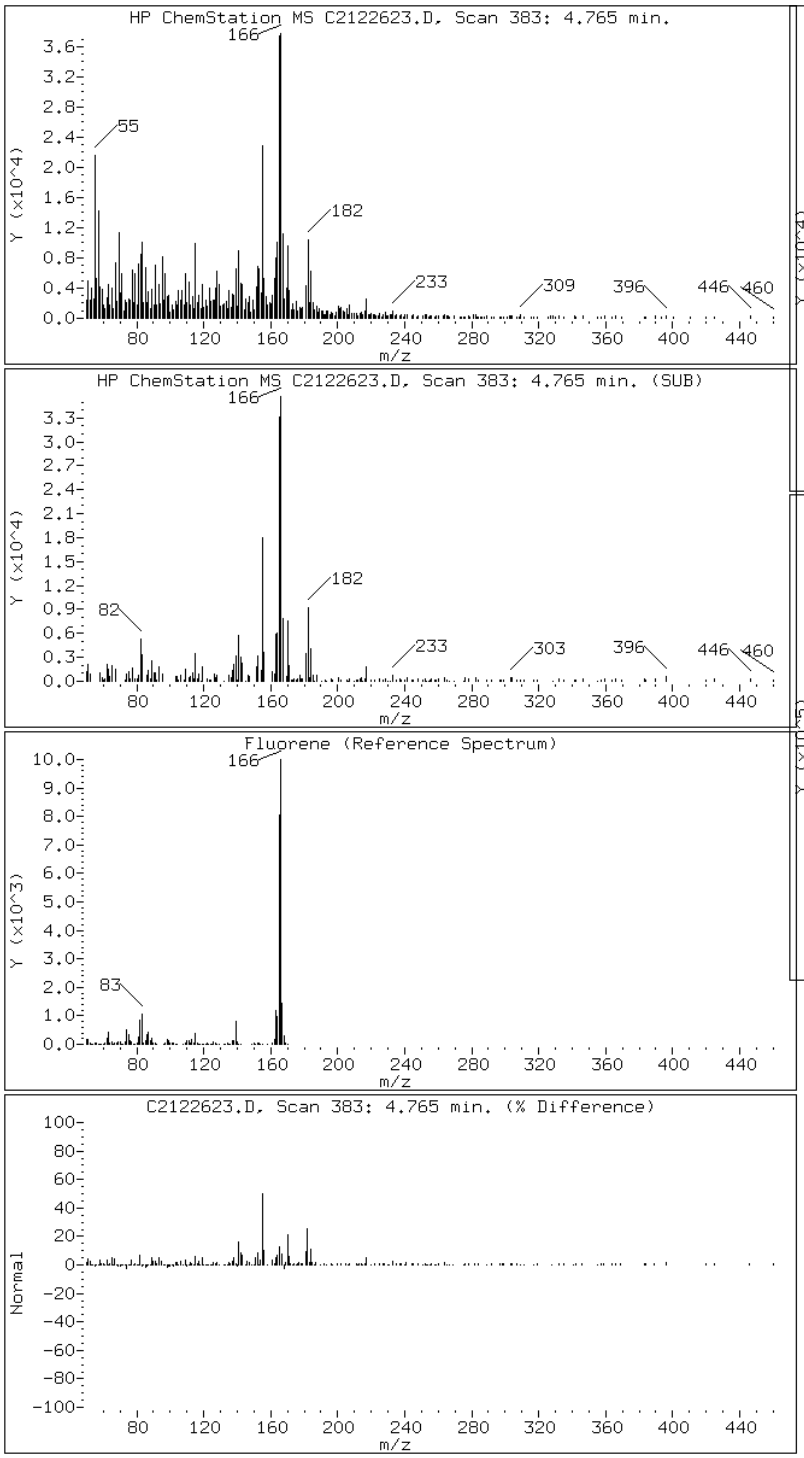
Data File: C2122623.D

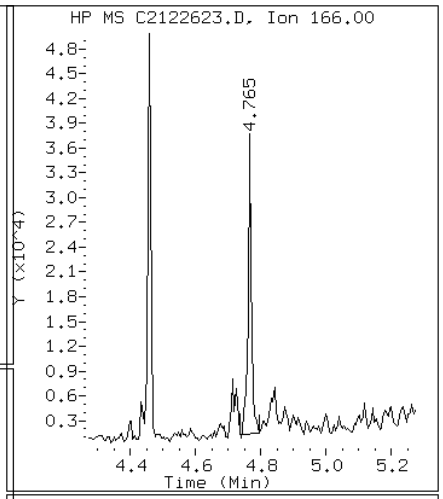
Date: 26-DEC-2012 20:02

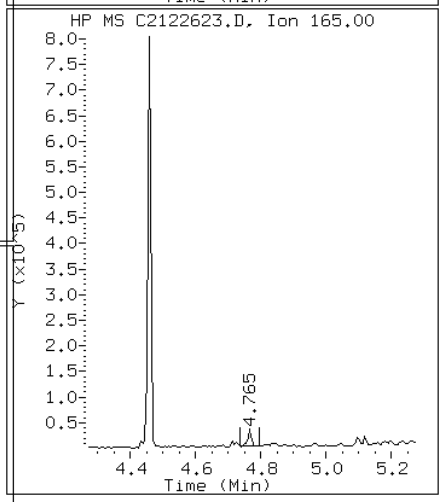
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

8 Fluorene







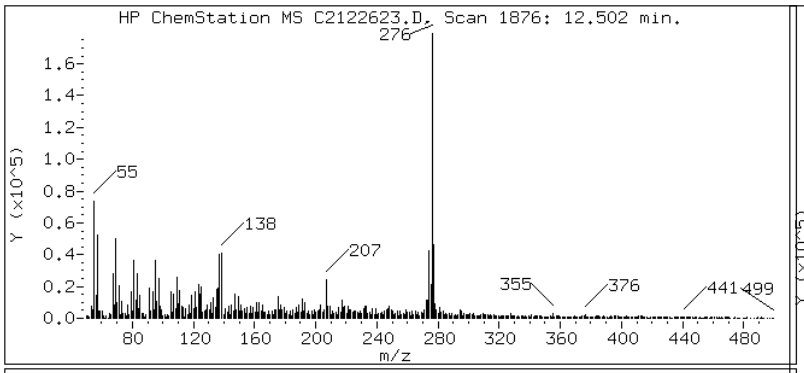
Data File: C2122623.D

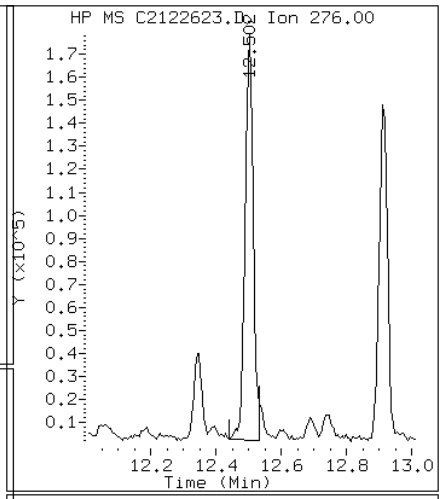
Date: 26-DEC-2012 20:02

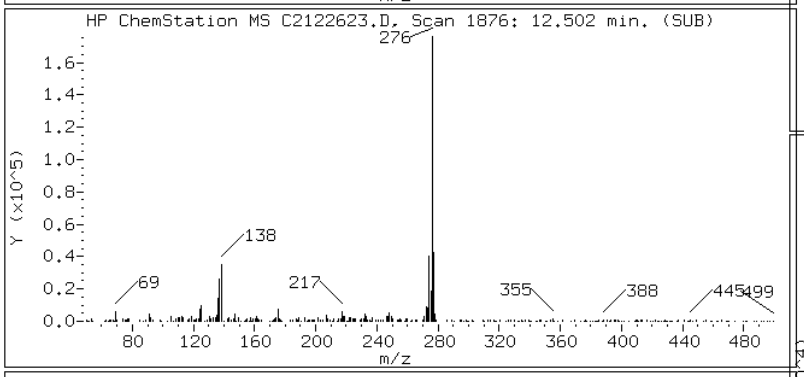
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

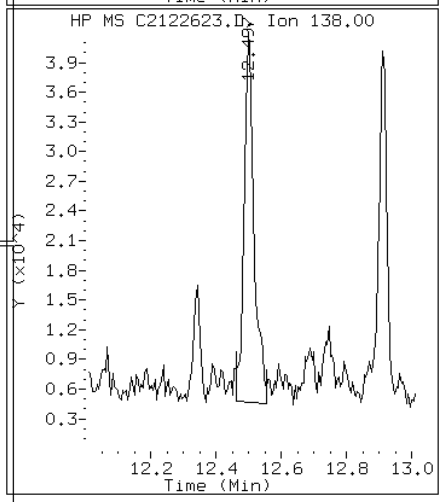
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

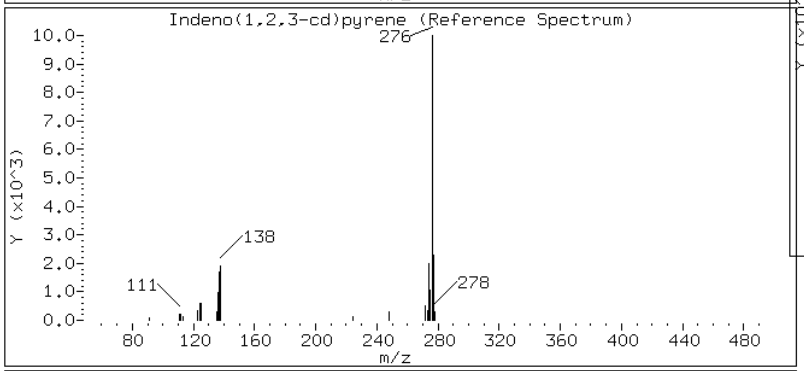
22 Indeno(1,2,3-cd)pyrene

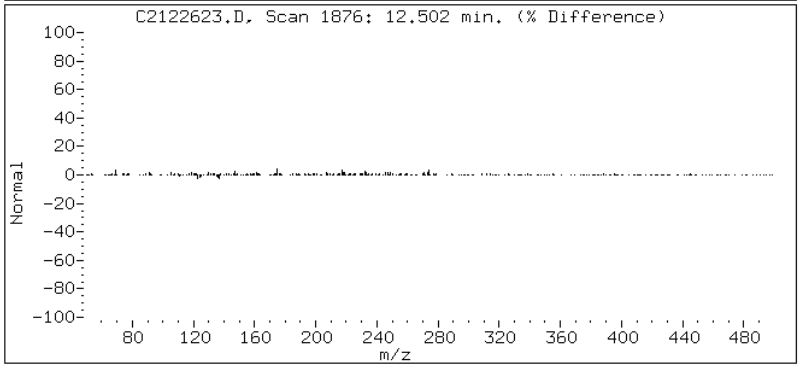












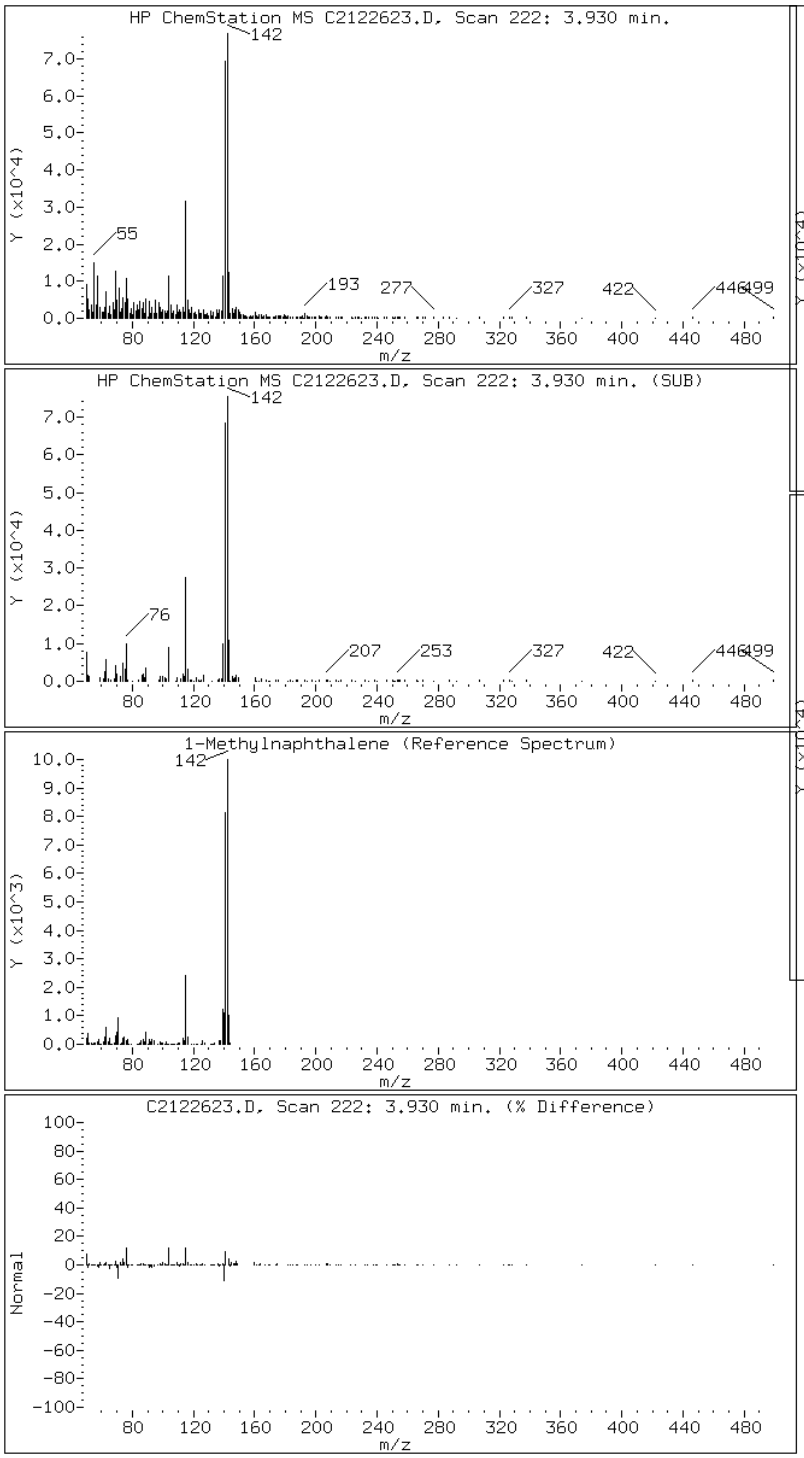
Data File: C2122623.D

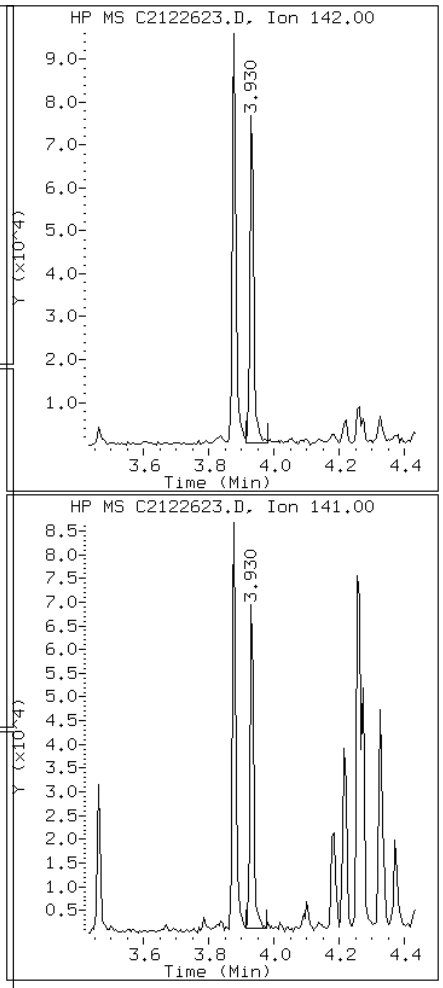
Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene





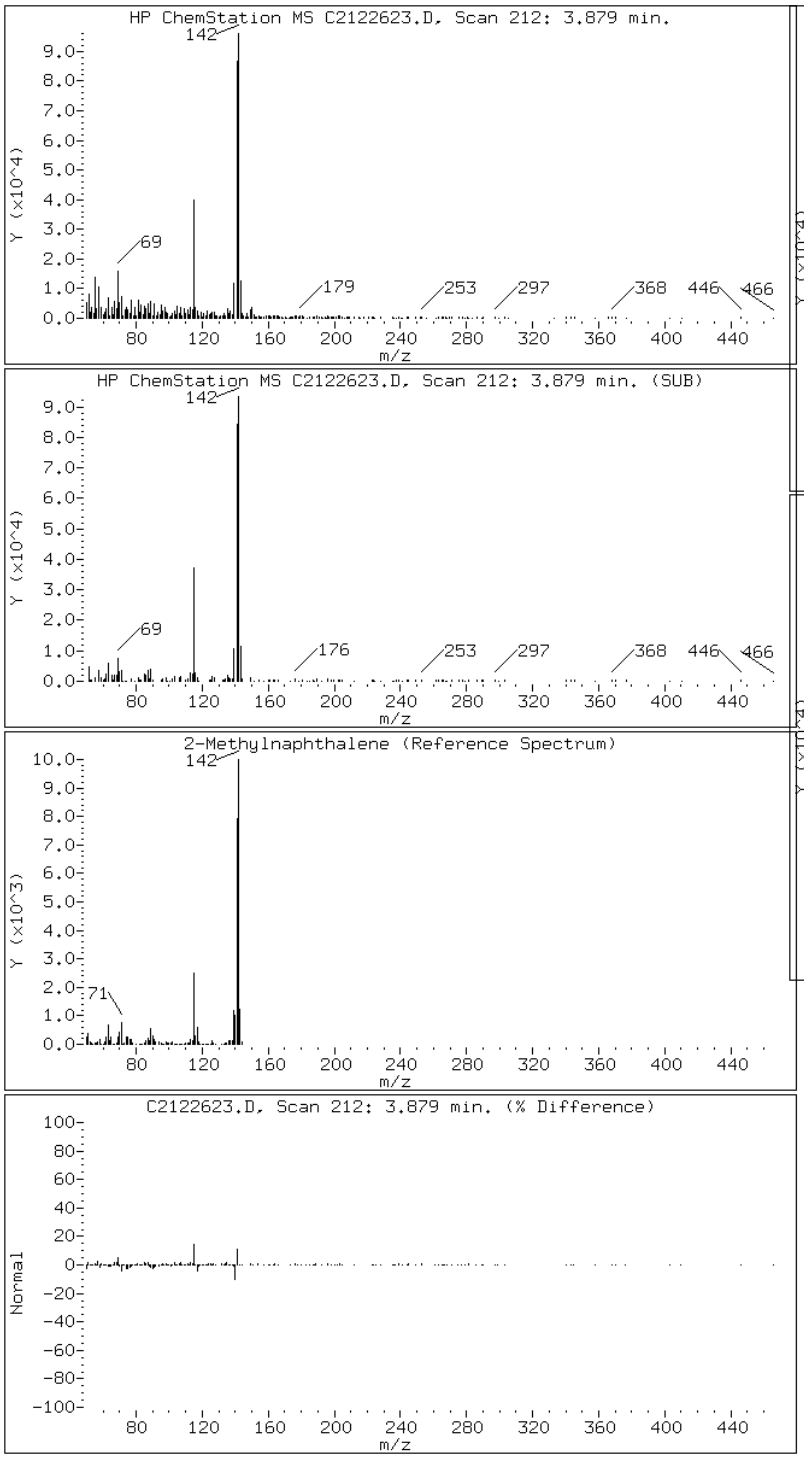
Data File: C2122623.D

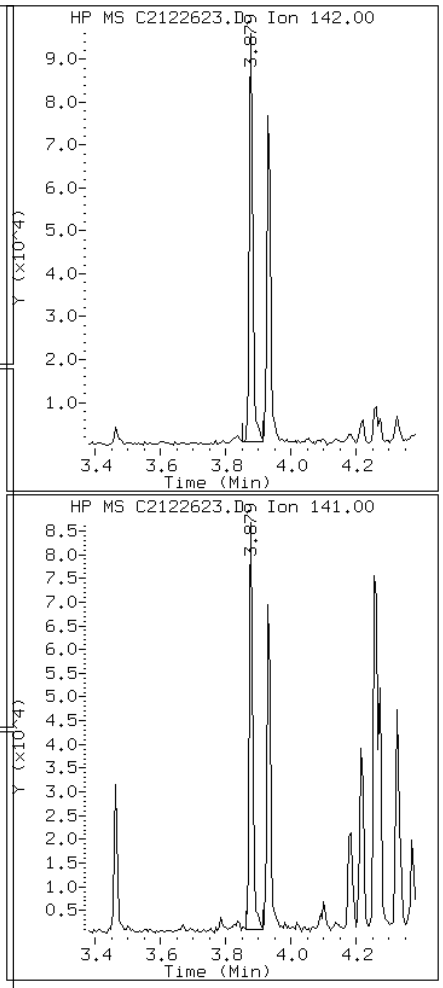
Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene





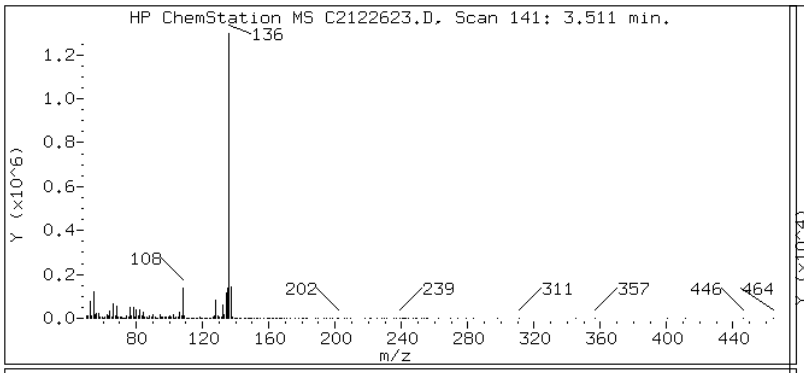
Data File: C2122623.D

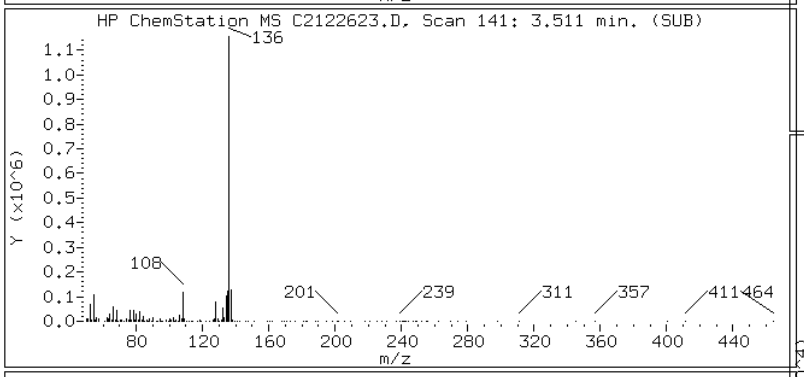
Date: 26-DEC-2012 20:02

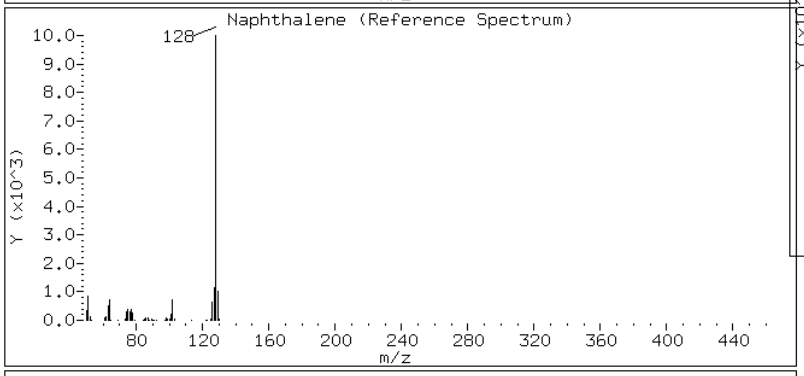
Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

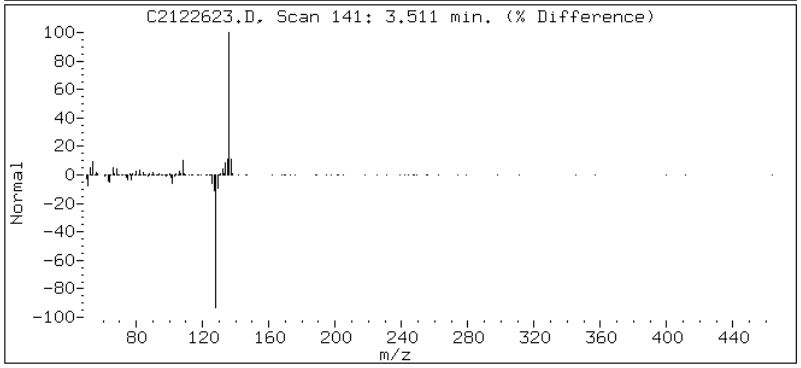
Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

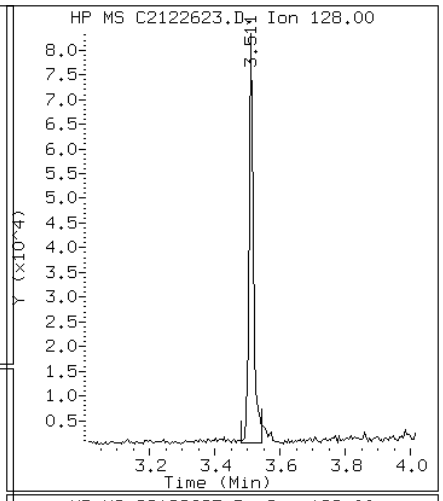
2 Naphthalene

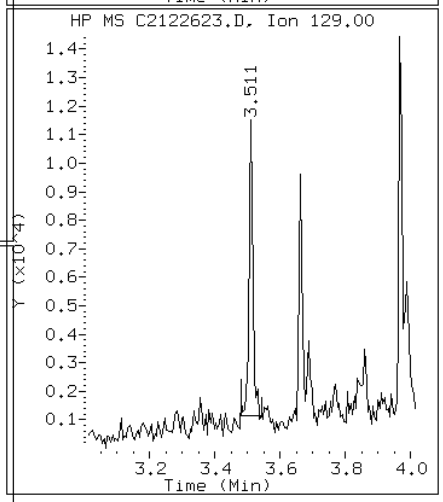












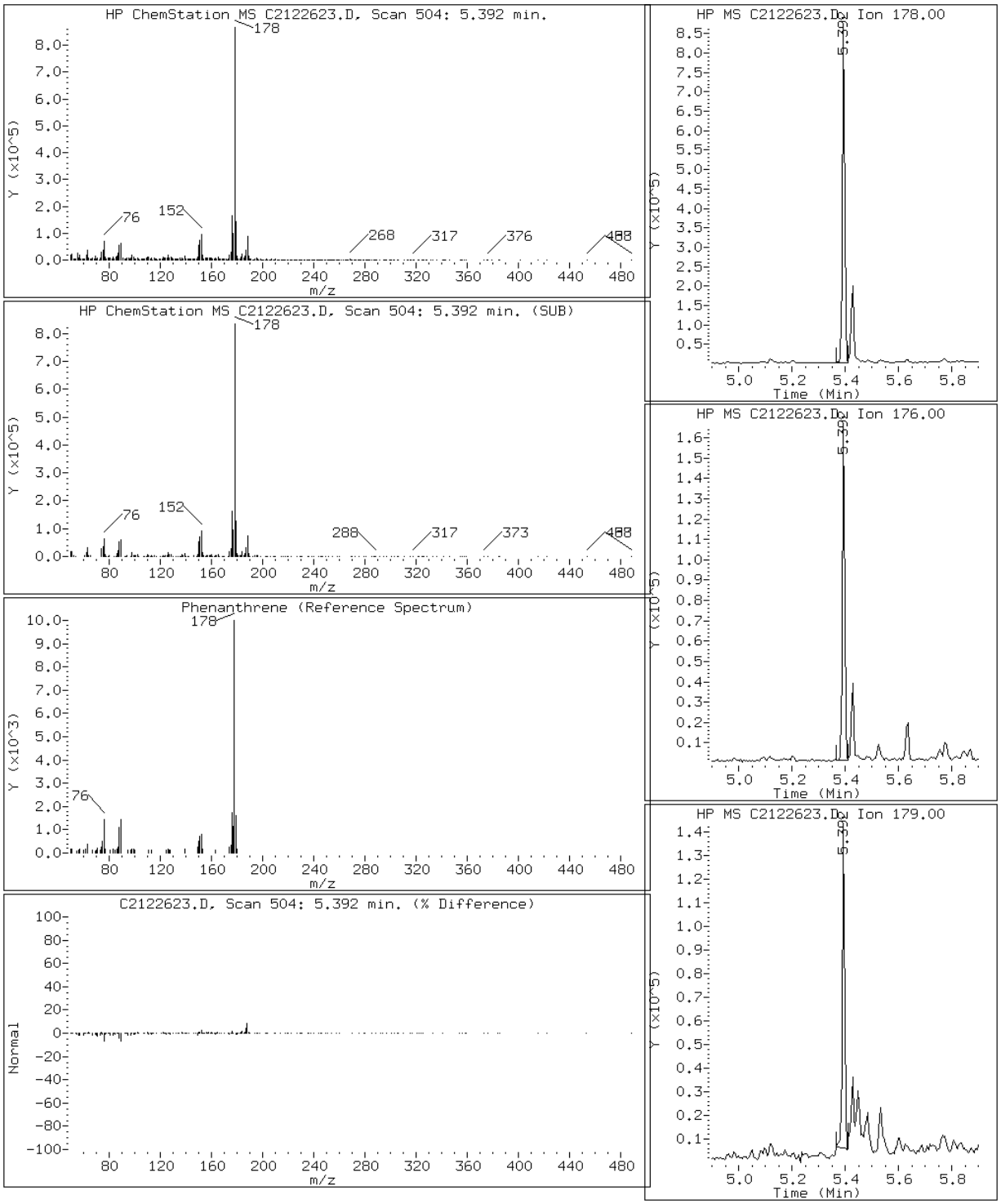
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



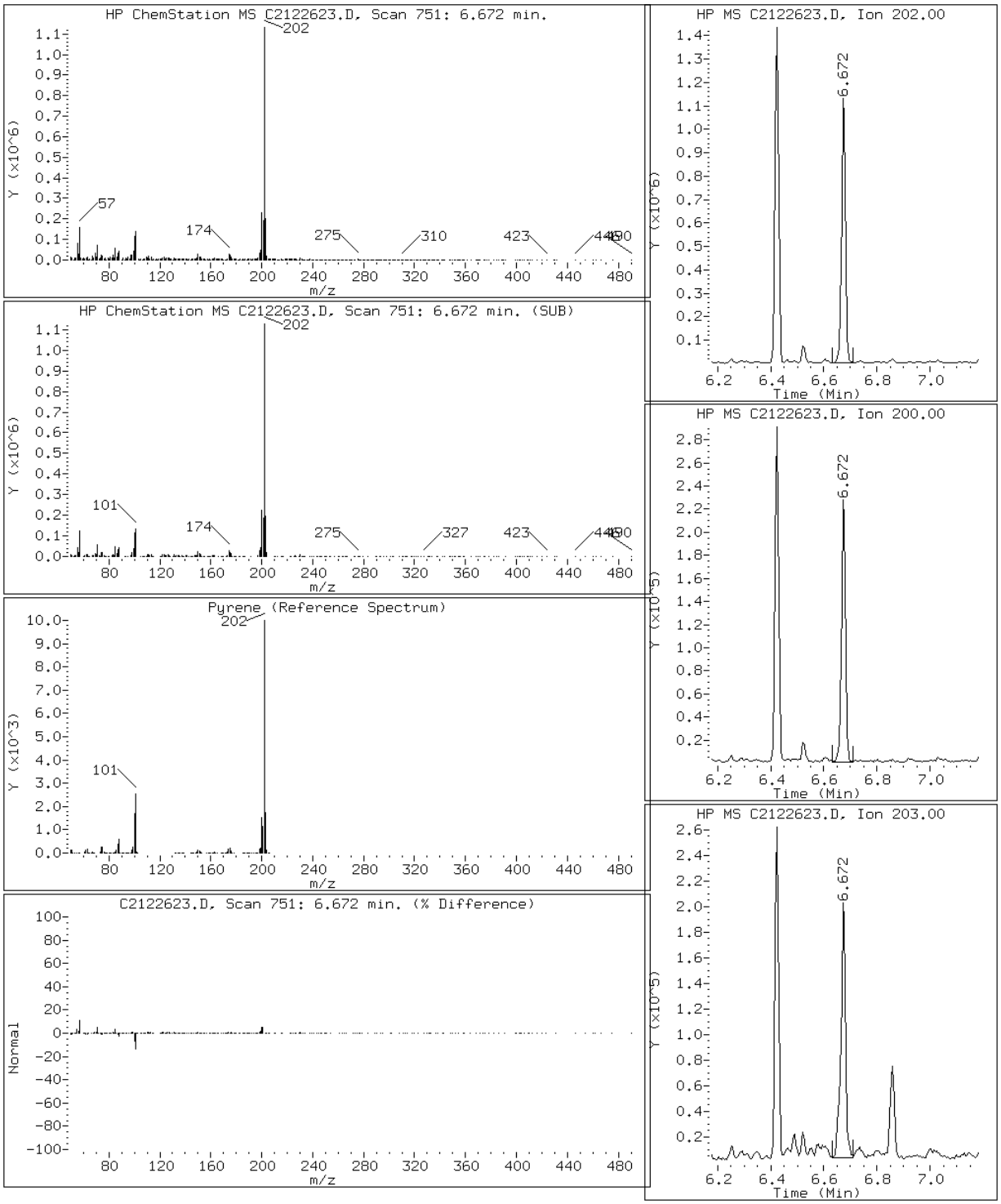
Data File: C2122623.D

Date: 26-DEC-2012 20:02

Client ID: HP0179A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-25-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122623.D
Inj. Date and Time: 26-DEC-2012 20:02
Instrument ID: TSMC5973.i
Client ID: HP0179A-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

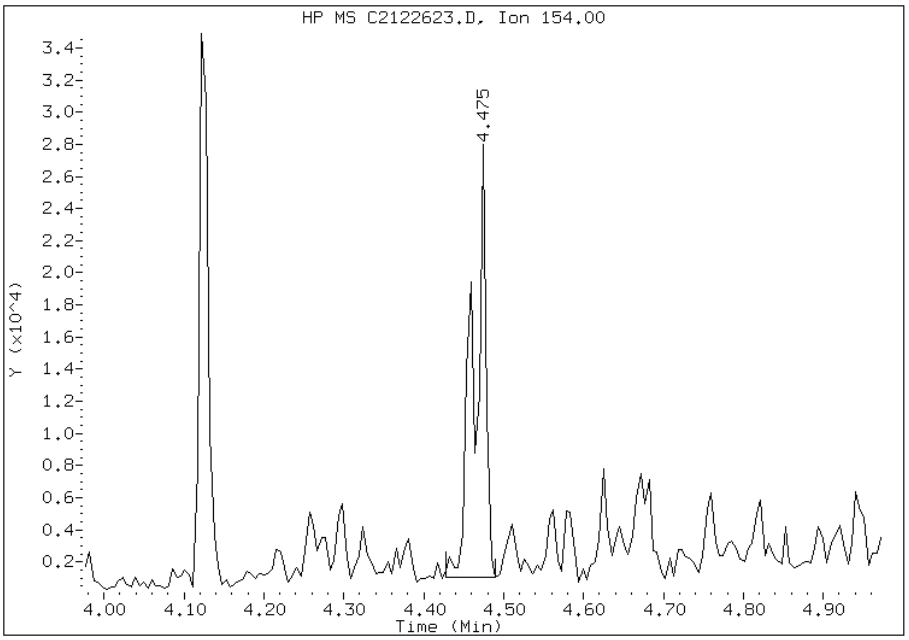
Processing Integration Results

RT: 4.47

Response: 29431

Amount: 0

Conc: 9



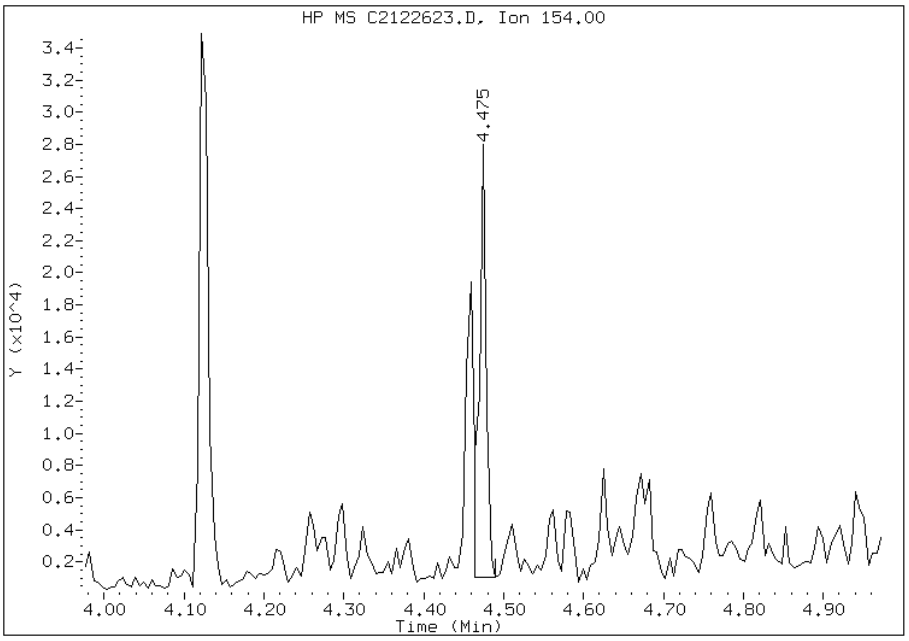
Manual Integration Results

RT: 4.47

Response: 17832

Amount: 0

Conc: 5



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122623.D
Inj. Date and Time: 26-DEC-2012 20:02
Instrument ID: TSMC5973.i
Client ID: HP0179A-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

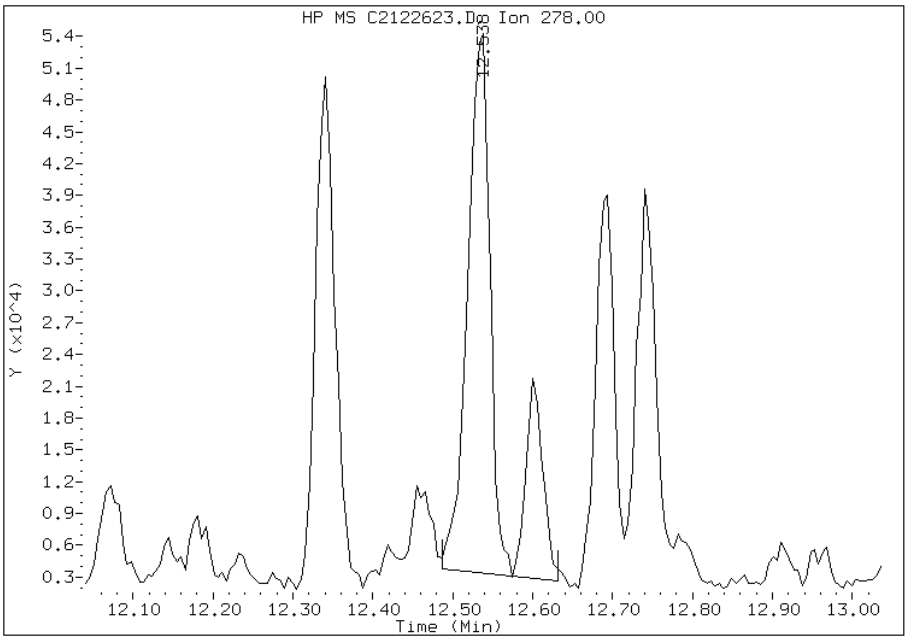
Processing Integration Results

RT: 12.54

Response: 127846

Amount: 1

Conc: 20



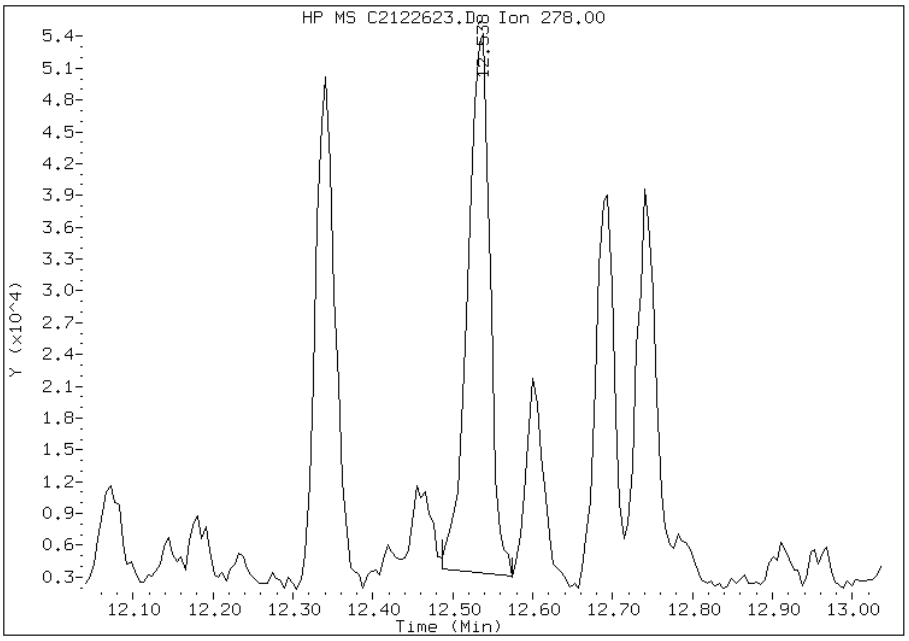
Manual Integration Results

RT: 12.54

Response: 100172

Amount: 0

Conc: 15



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122623.D
Inj. Date and Time: 26-DEC-2012 20:02
Instrument ID: TSMC5973.i
Client ID: HP0179A-CS-SP
Compound: 22 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/27/2012

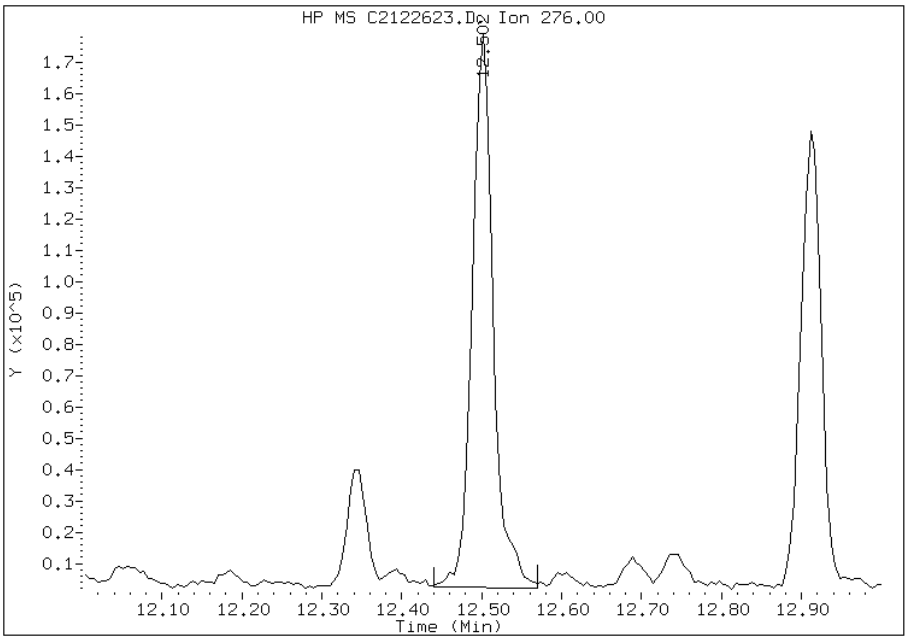
Processing Integration Results

RT: 12.50

Response: 329975

Amount: 2

Conc: 50



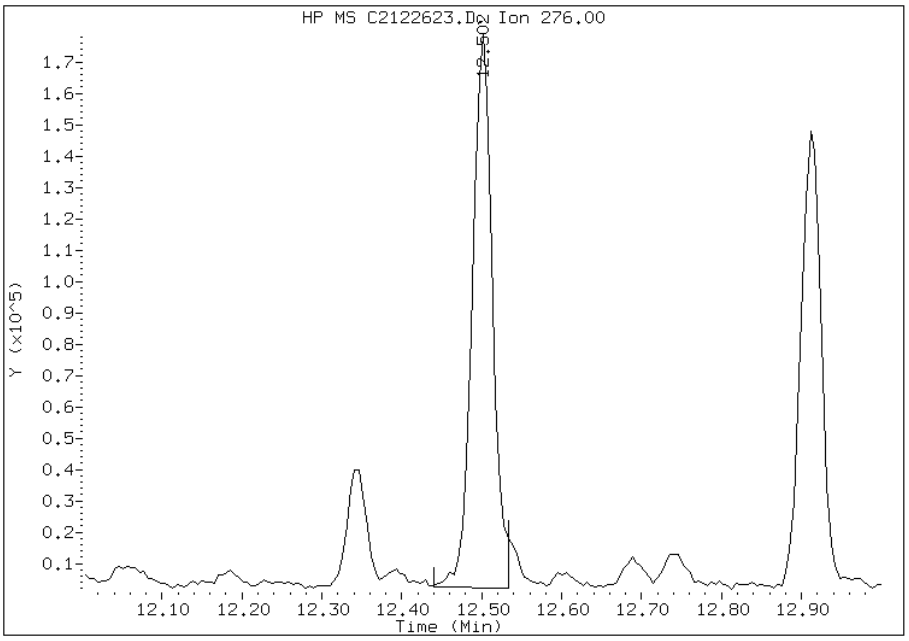
Manual Integration Results

RT: 12.50

Response: 317289

Amount: 1

Conc: 48



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: HP0179B-CS-SP | Lab Sample ID: 680-85785-26

Matrix: Solid | Lab File ID: C2122624.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:58

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.44(g) | Date Analyzed: 12/26/2012 20:21

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.3	J	8.7	0.75
208-96-8	Acenaphthylene	11		8.7	0.69
120-12-7	Anthracene	18		8.7	0.86
56-55-3	Benzo[a]anthracene	66		8.7	0.80
50-32-8	Benzo[a]pyrene	80		8.7	0.88
205-99-2	Benzo[b]fluoranthene	150		8.7	1.2
191-24-2	Benzo[g,h,i]perylene	38		8.7	1.4
207-08-9	Benzo[k]fluoranthene	47		8.7	0.83
218-01-9	Chrysene	120		8.7	0.97
53-70-3	Dibenz(a,h)anthracene	13		8.7	0.84
206-44-0	Fluoranthene	120		8.7	0.78
86-73-7	Fluorene	5.2	J	8.7	0.67
193-39-5	Indeno[1,2,3-cd]pyrene	44		8.7	1.4
90-12-0	1-Methylnaphthalene	19		8.7	0.69
91-57-6	2-Methylnaphthalene	27		8.7	0.67
91-20-3	Naphthalene	24		8.7	0.67
85-01-8	Phenanthrene	82		8.7	0.57
129-00-0	Pyrene	93		8.7	0.67

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	77		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122624.D
Lab Smp Id: 680-85785-A-26-A Client Smp ID: HP0179B-CS-SP
Inj Date : 26-DEC-2012 20:21
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-26-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.440	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.287	3.303	(0.941)	151544	2.07808	68	
* 1 Naphthalene-d8	136	3.495	3.505	(1.000)	6777289	40.0000		
2 Naphthalene	128	3.510	3.515	(1.004)	93091	0.56206	18	
3 2-Methylnaphthalene	142	3.878	3.883	(1.110)	79085	0.62920	21	
4 1-Methylnaphthalene	142	3.930	3.935	(1.125)	54336	0.44071	14	
* 5 Acenaphthene-d10	164	4.459	4.464	(1.000)	3726685	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	53228	0.26580	8.7	
7 Acenaphthene	154	4.474	4.479	(1.003)	5531	0.05279	1.7(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	16828	0.12032	4.0(a)	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6031103	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	324253	1.90829	63	
11 Anthracene	178	5.428	5.438	(1.010)	77592	0.41713	14	
$ 12 o-Terphenyl	230	5.635	5.640	(1.048)	336818	3.06068	100	
13 Fluoranthene	202	6.423	6.433	(1.195)	641083	2.85007	94	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7070208	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	570401	2.15342	71	
16 Benzo(a)anthracene	228	8.304	8.309	(0.996)	375458	1.51864	50	
17 Chrysene	228	8.361	8.371	(1.003)	580392	2.76384	91	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	6683957	40.0000		
19 Benzo(b)fluoranthene	252	10.097	10.102	(0.937)	740488	3.47769	110	
20 Benzo(k)fluoranthene	252	10.138	10.154	(0.940)	225563	1.08199	36	
21 Benzo(a)pyrene	252	10.651	10.656	(0.988)	352938	1.85262	61	
22 Indeno(1,2,3-cd)pyrene	276	12.507	12.512	(1.160)	204217	1.01167	33	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.163)	62584	0.30779	10(M)	BAS
24 Benzo(g,h,i)perylene	276	12.921	12.921	(1.199)	176514	0.87425	29	

QC Flag Legend

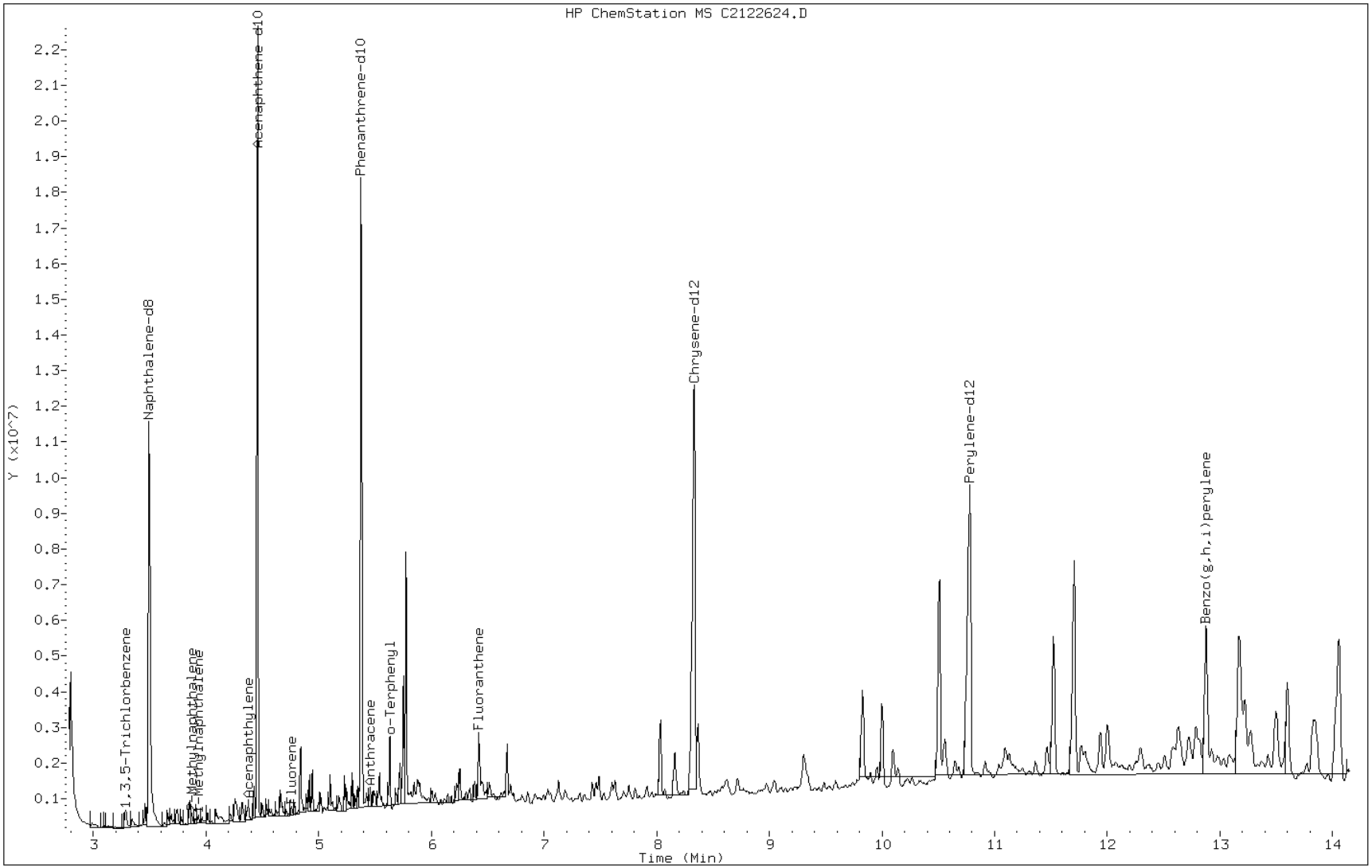
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW



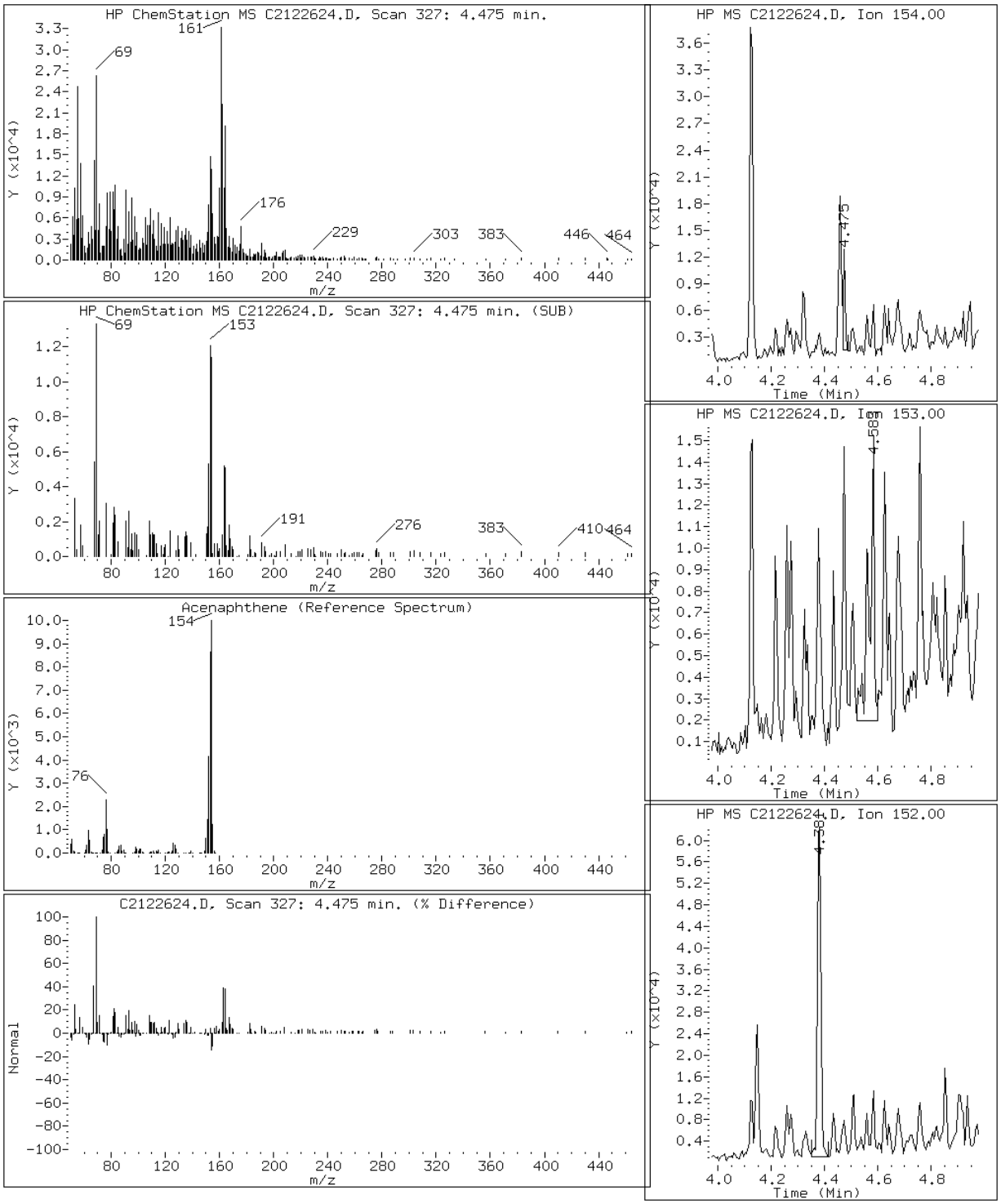
Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



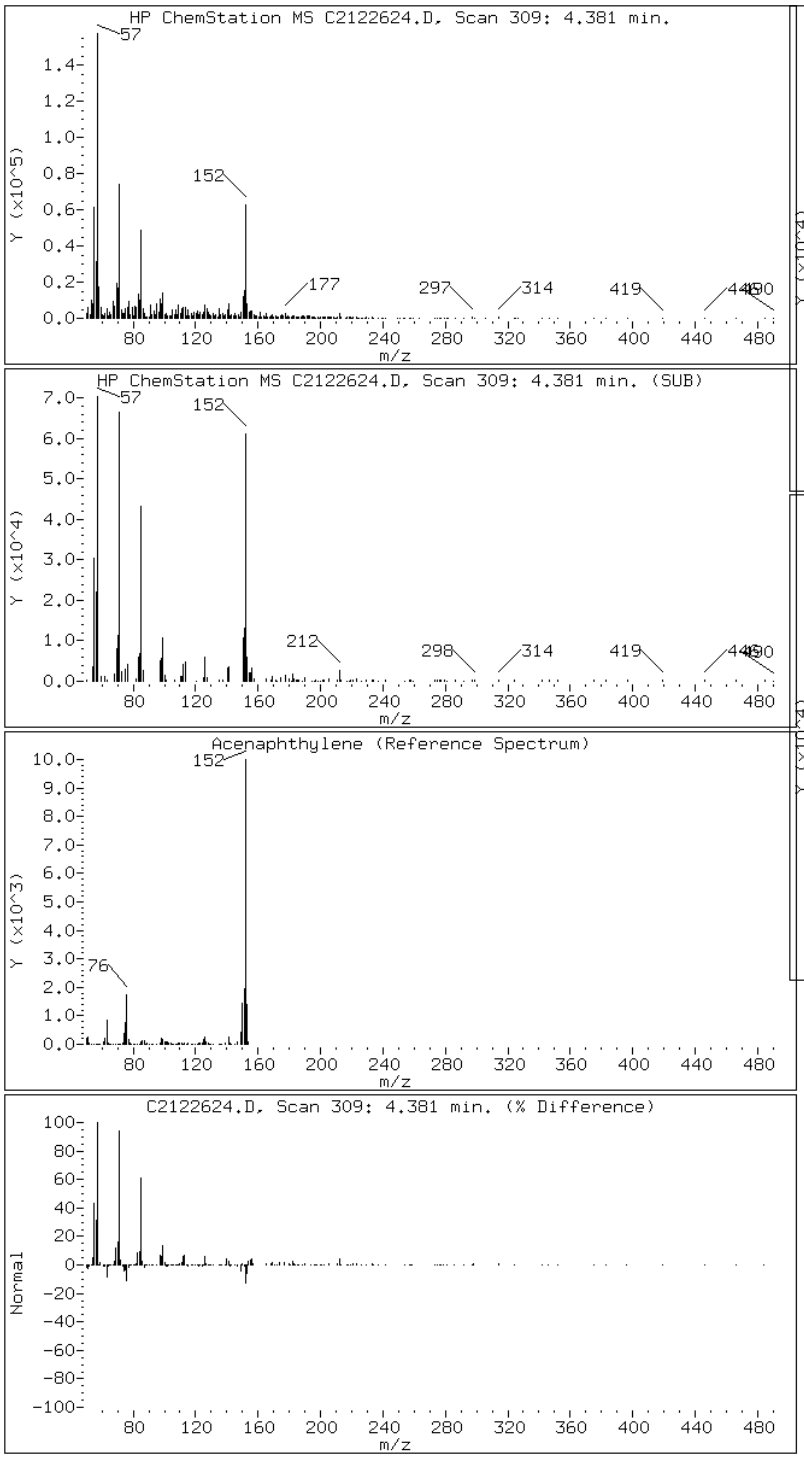
Data File: C2122624.D

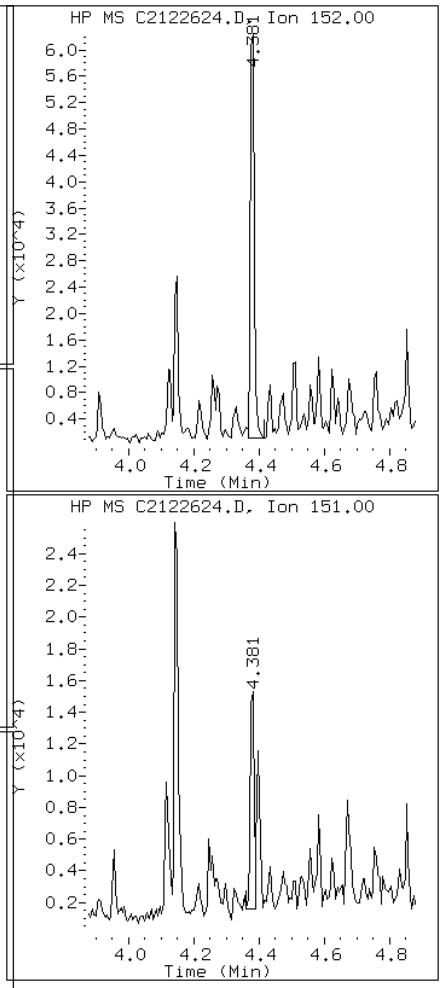
Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

6 Acenaphthylene





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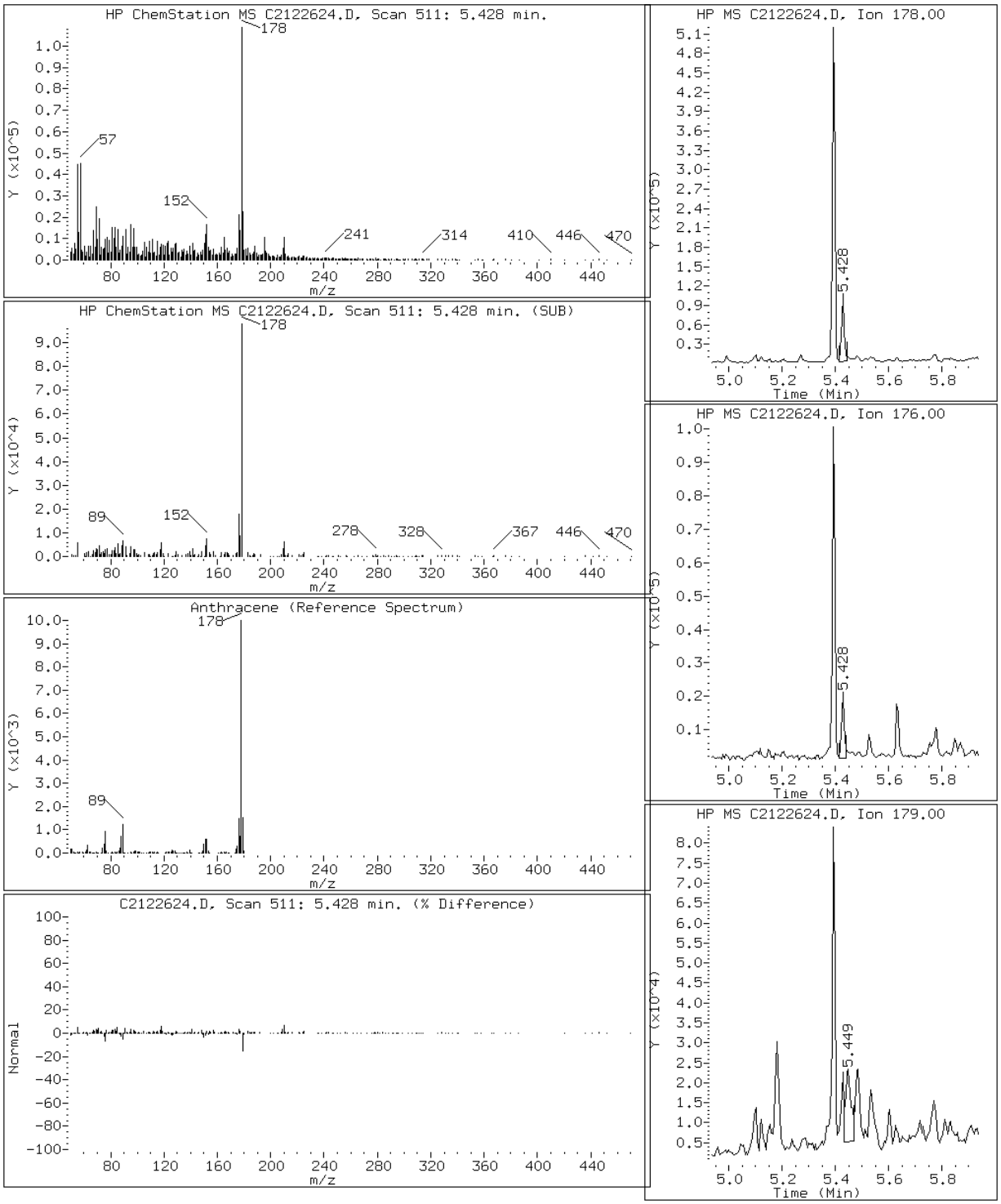
Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

11 Anthracene



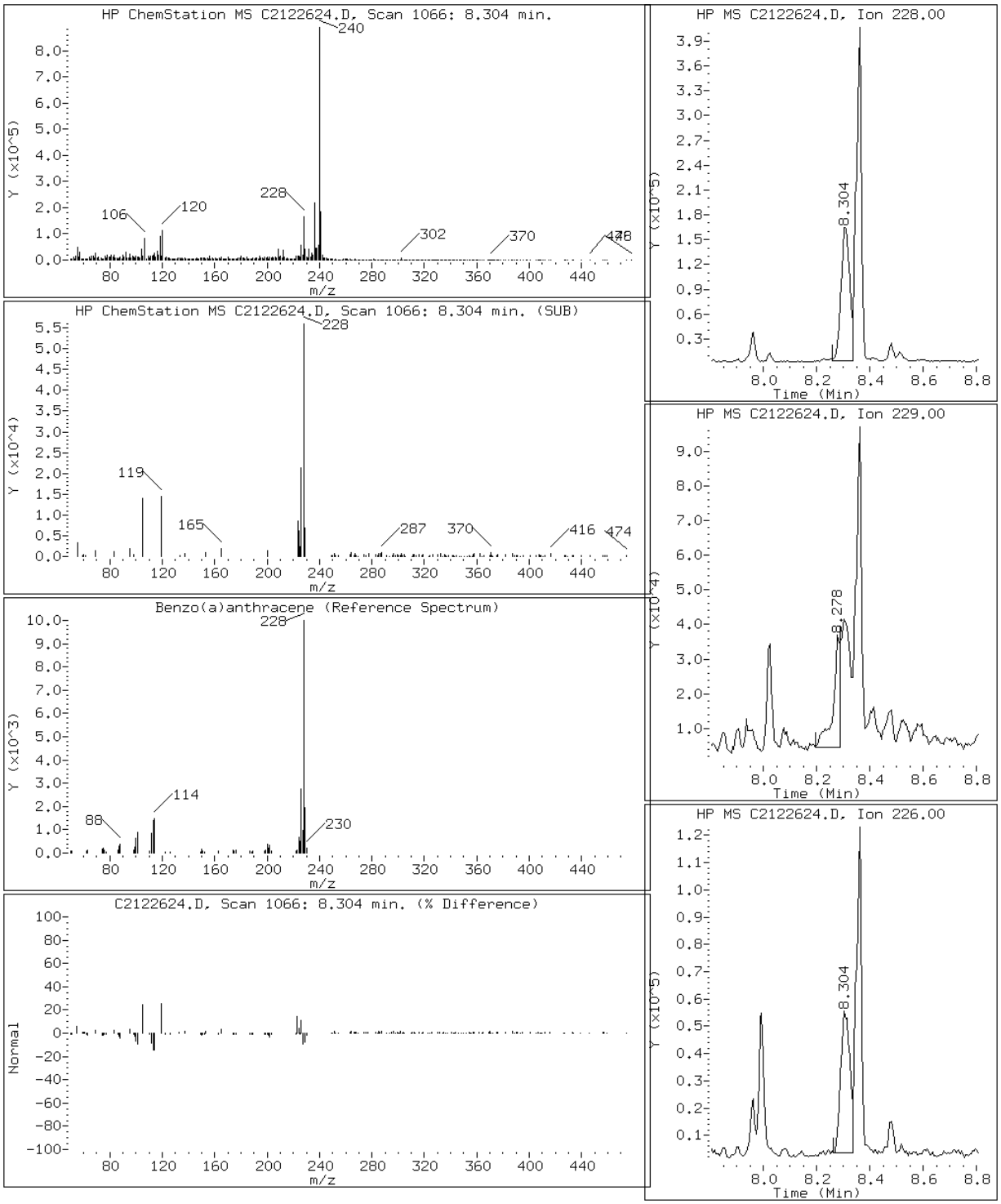
Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



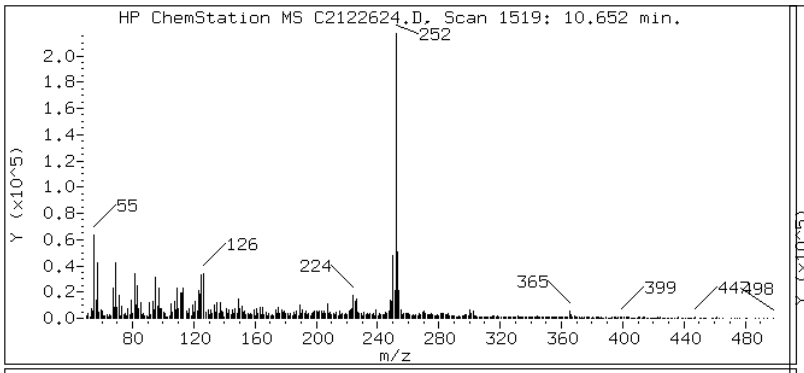
Data File: C2122624.D

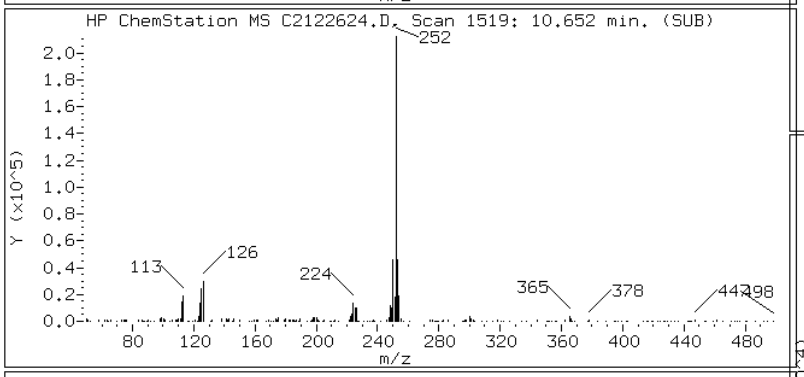
Date: 26-DEC-2012 20:21

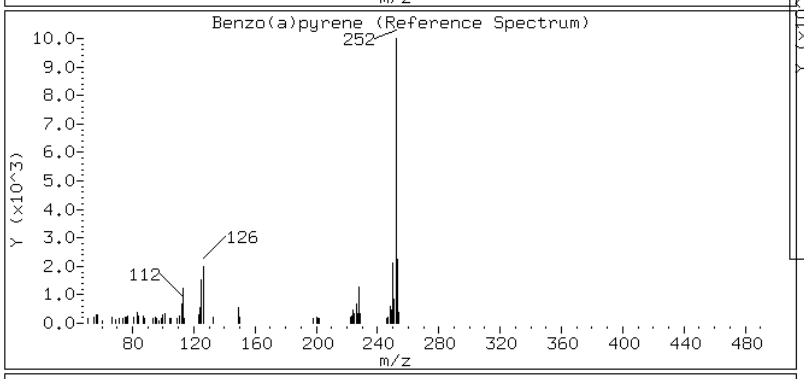
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

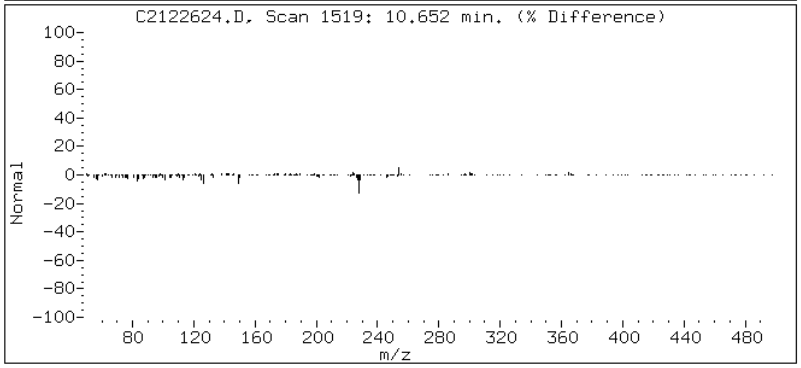
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

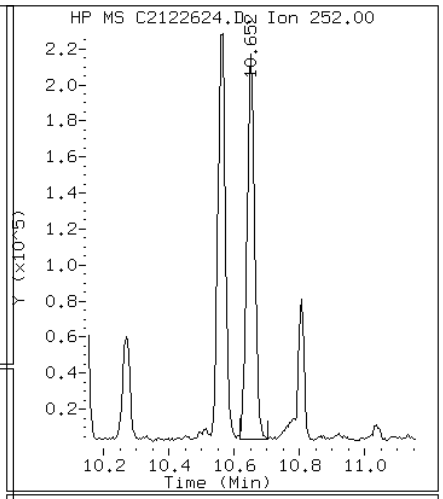
21 Benzo(a)pyrene

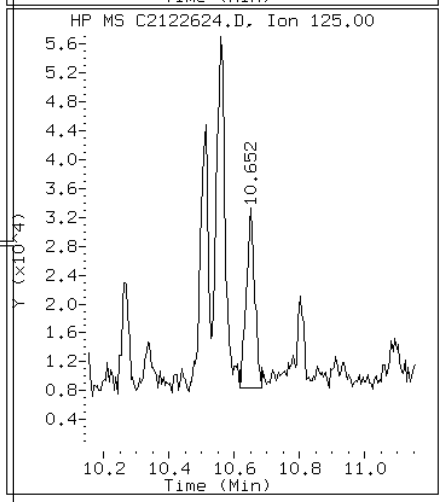












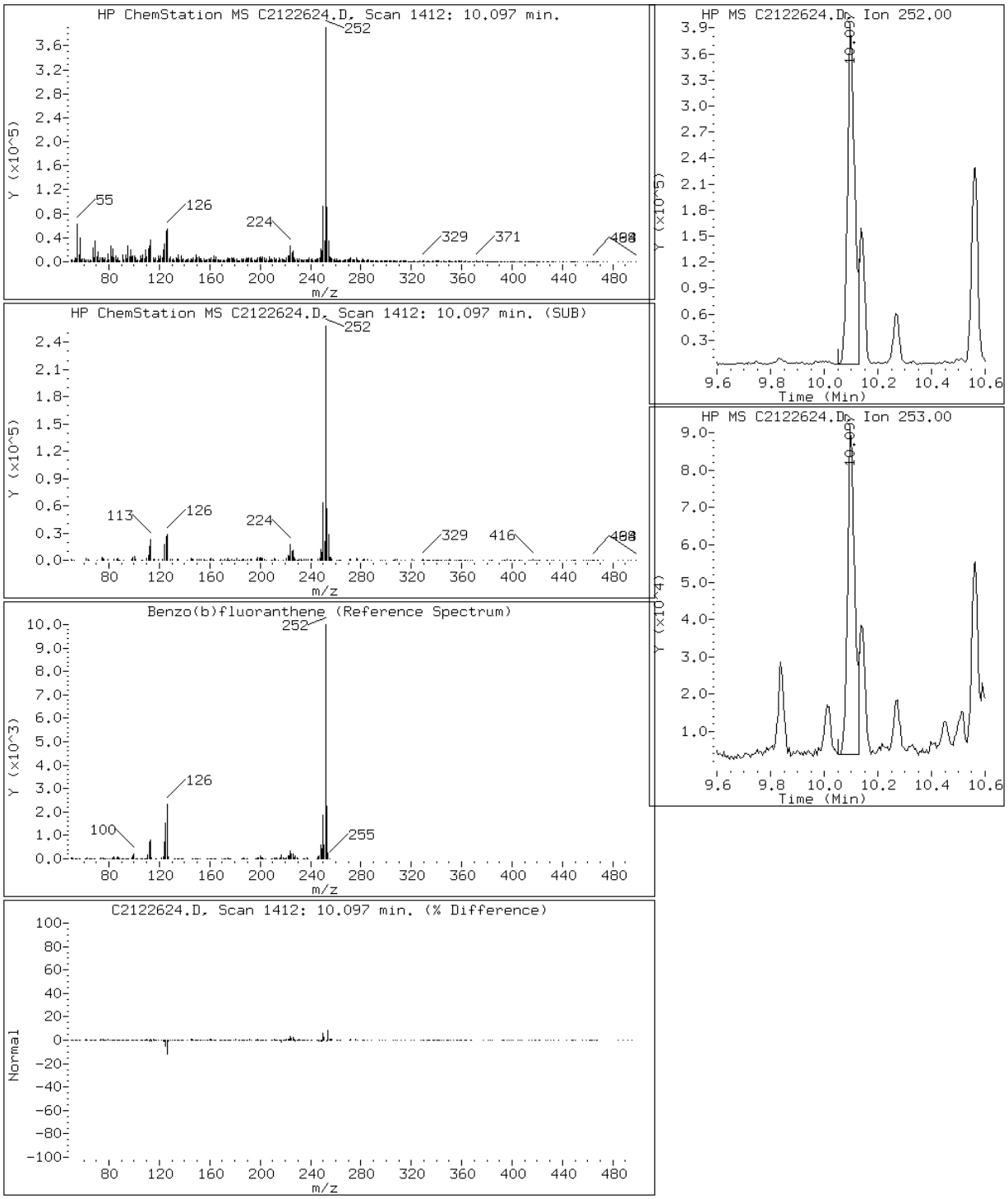
Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

19 Benzo(b)fluoranthene



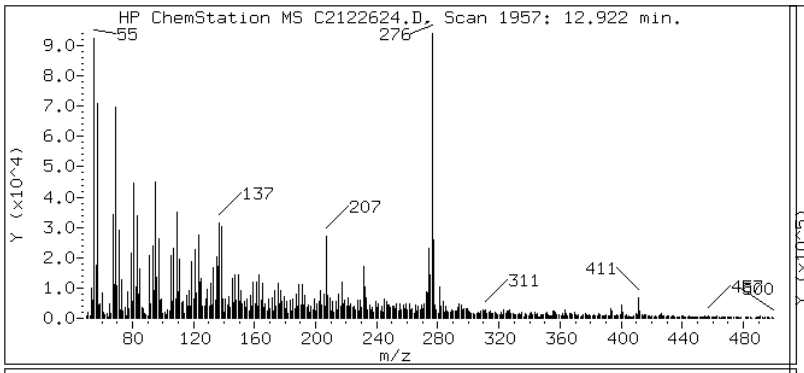
Data File: C2122624.D

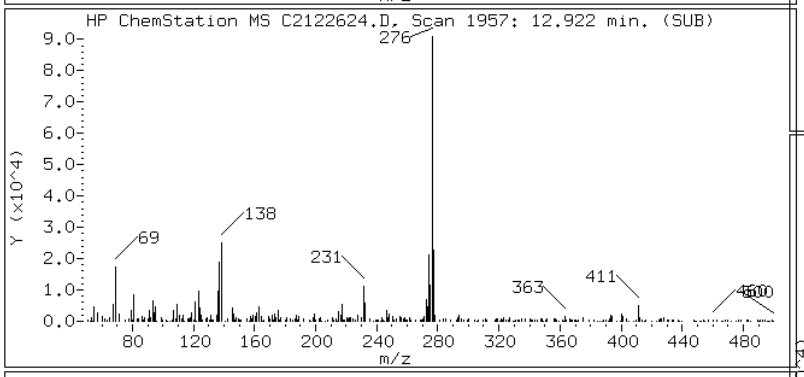
Date: 26-DEC-2012 20:21

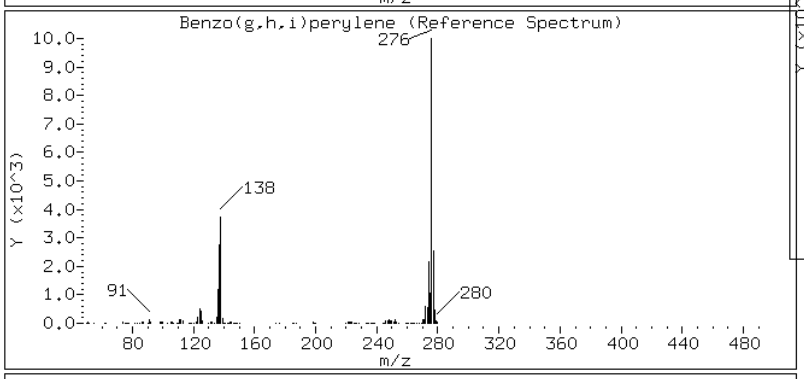
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

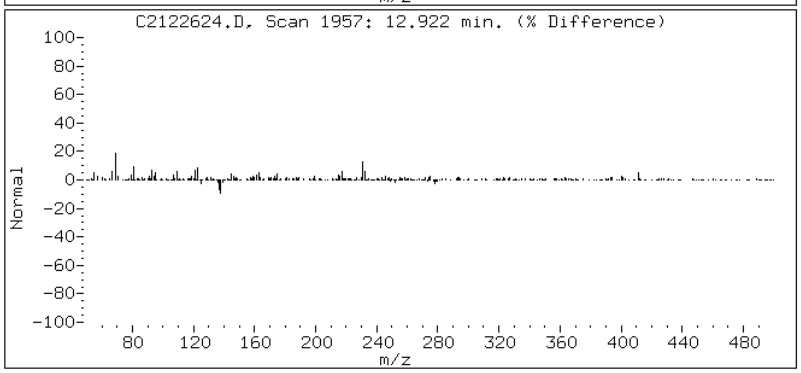
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

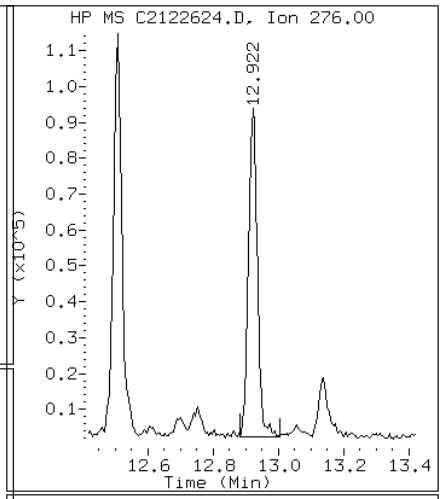
24 Benzo(g,h,i)perylene

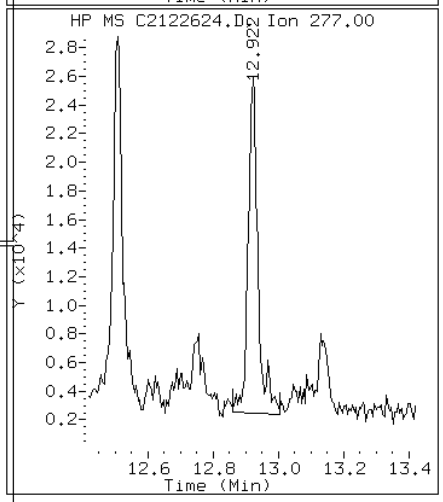












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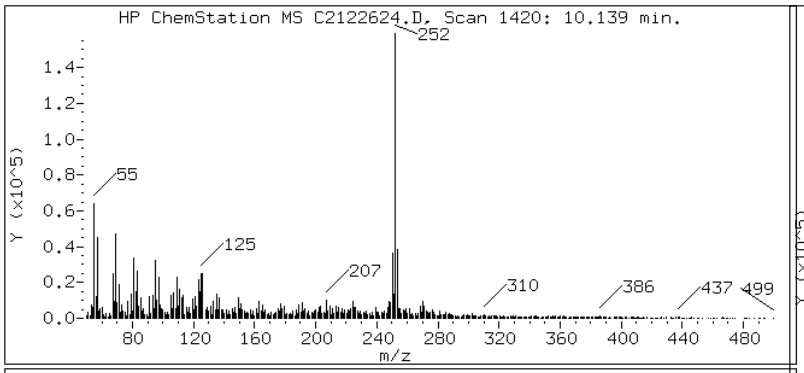
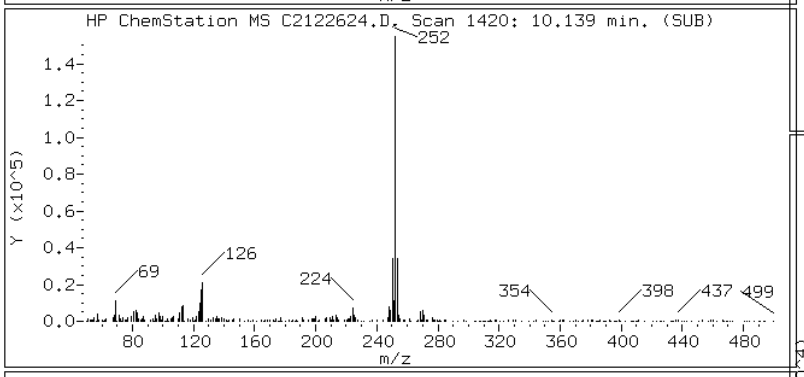
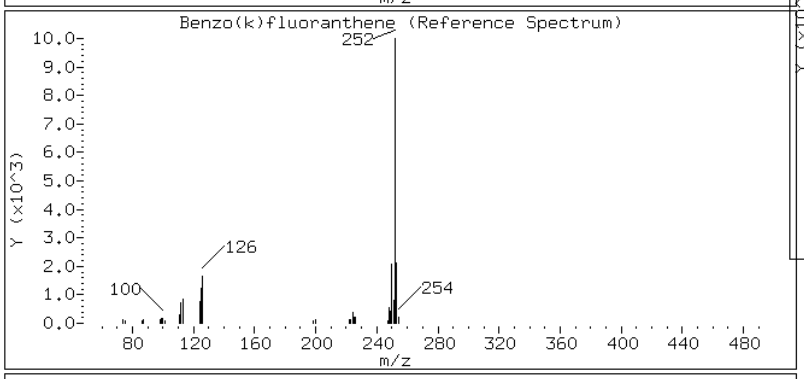
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

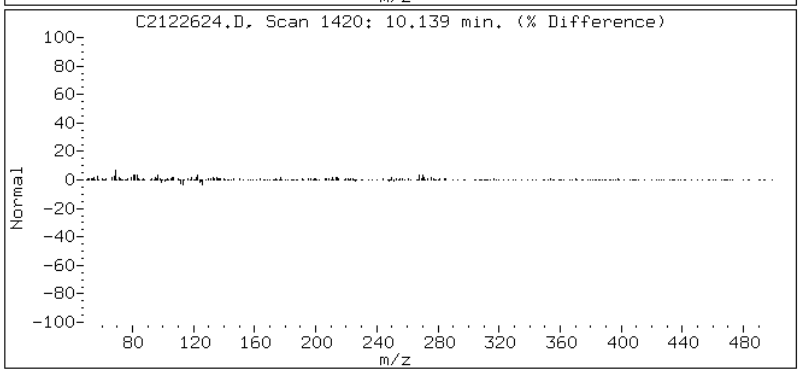
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

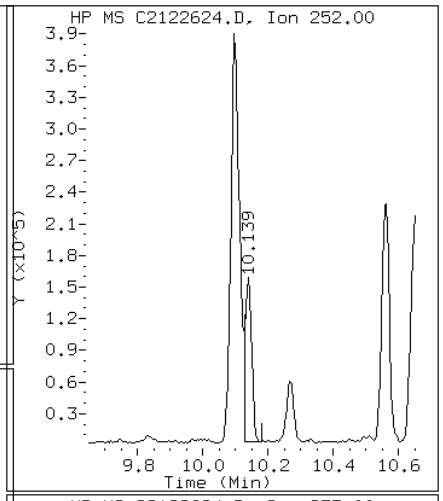
20 Benzo(k)fluoranthene

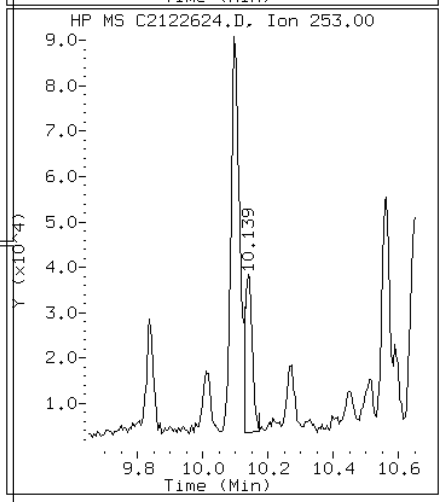












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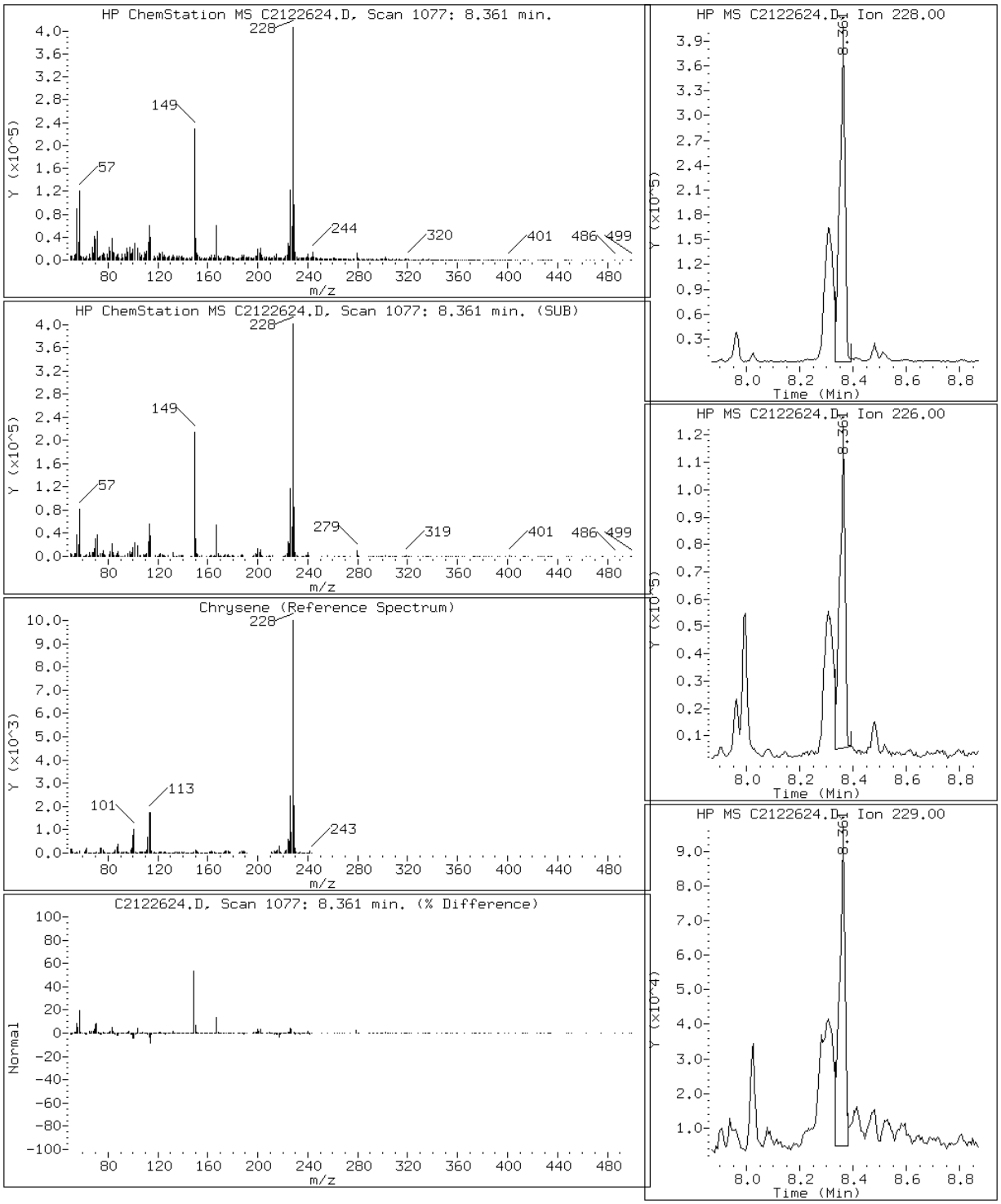
Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

17 Chrysene



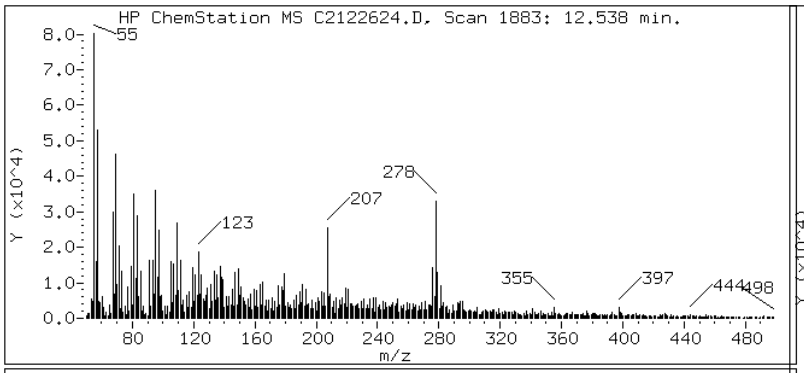
Data File: C2122624.D

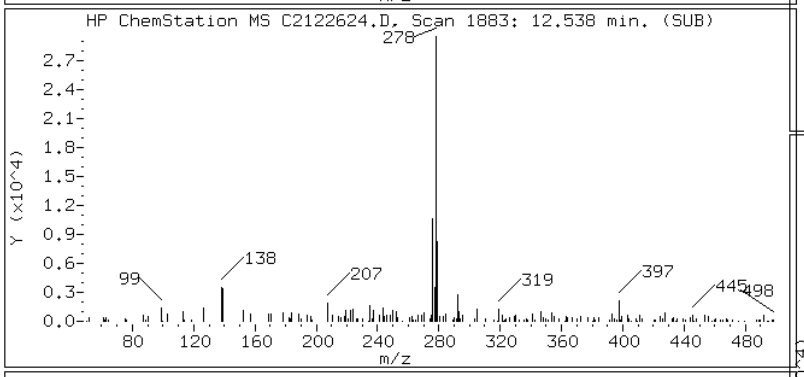
Date: 26-DEC-2012 20:21

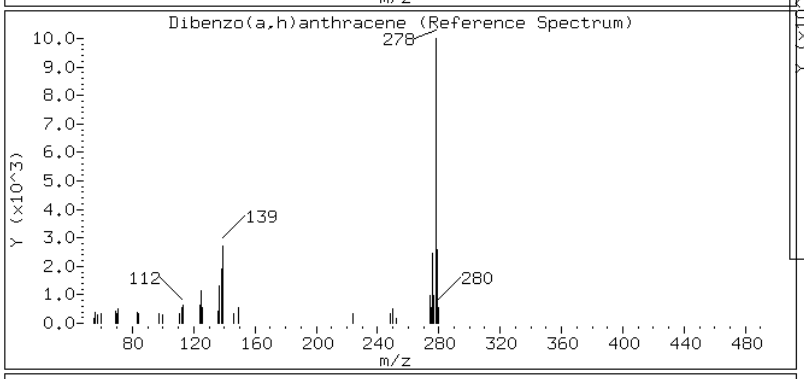
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

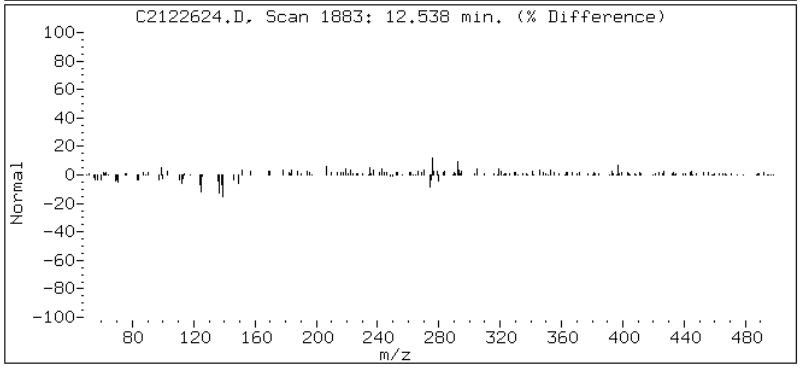
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

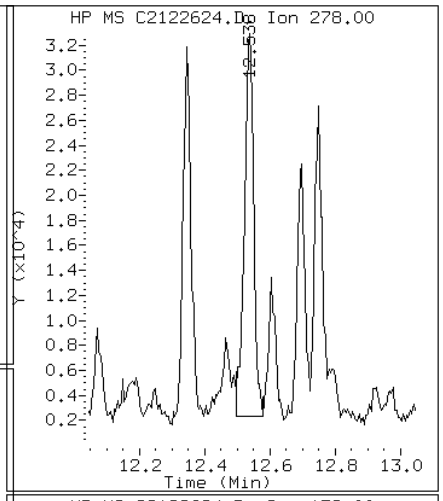
23 Dibenzo(a,h)anthracene

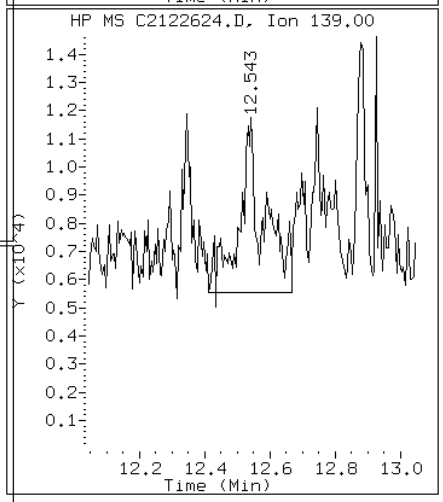












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Date: 26-DEC-2012 20:21

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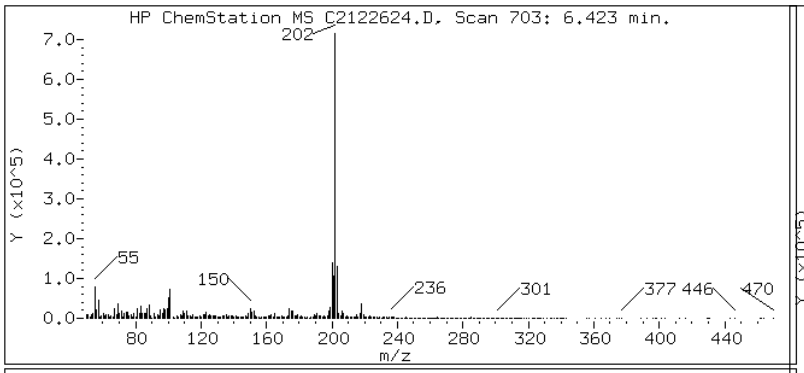
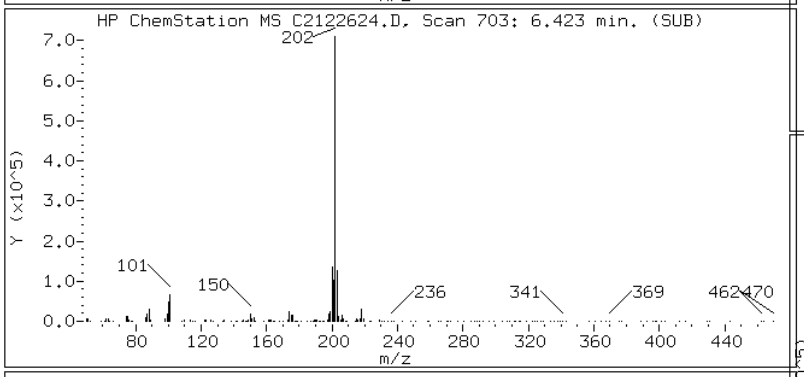
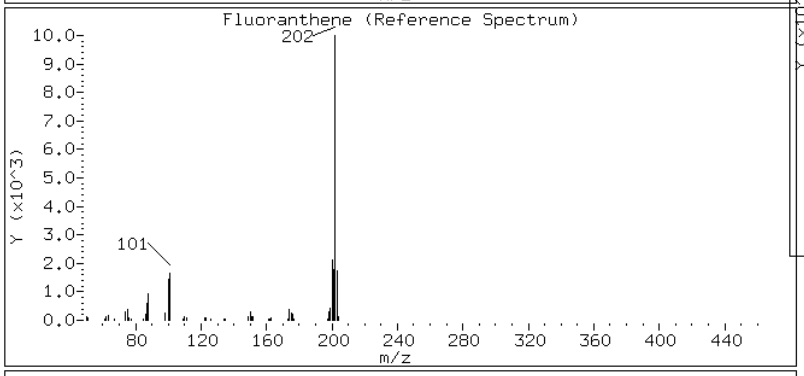
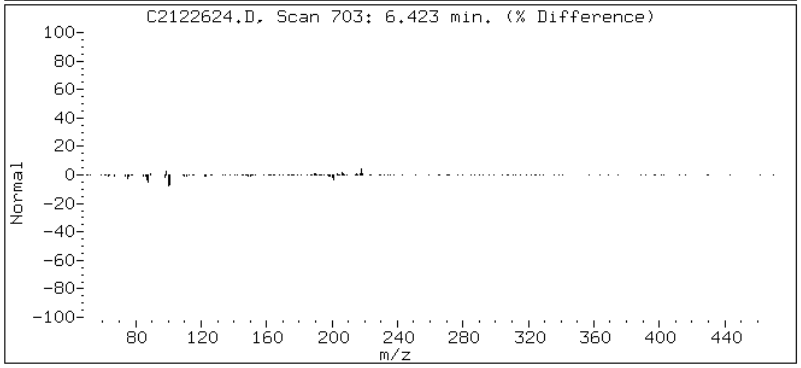
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

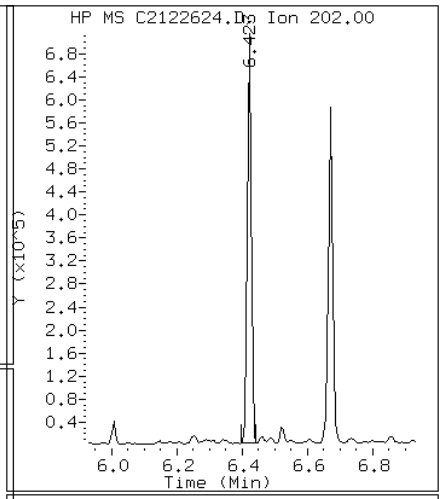
13 Fluoranthene

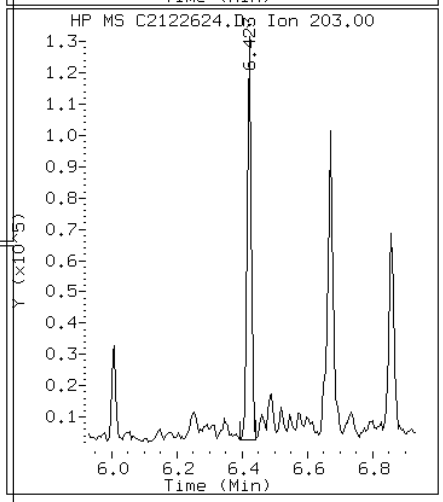












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Date: 26-DEC-2012 20:21

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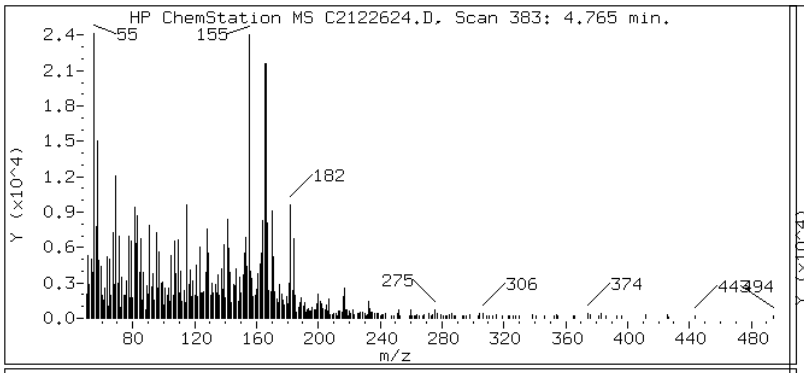
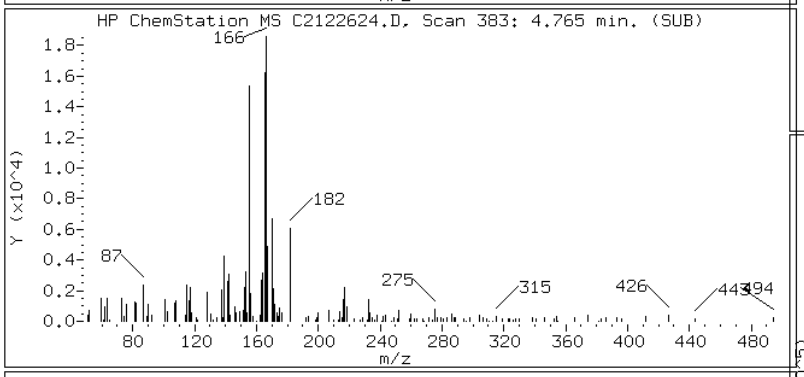
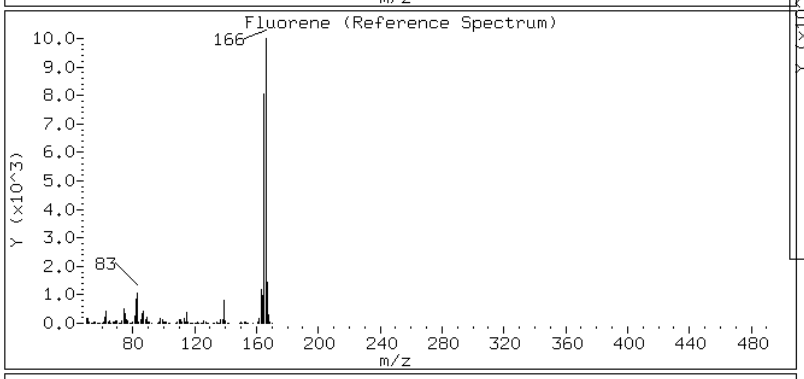
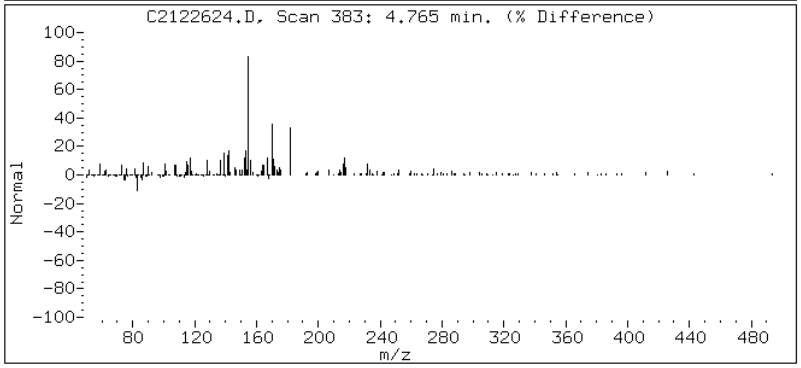
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

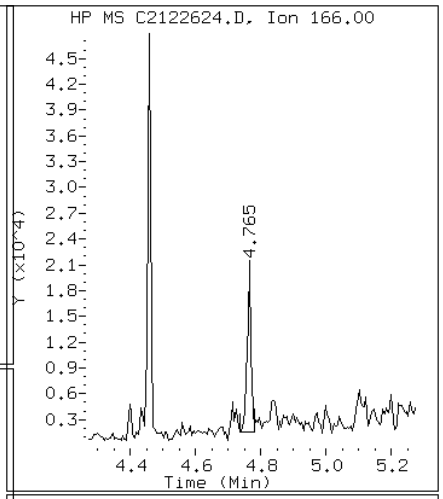
8 Fluorene

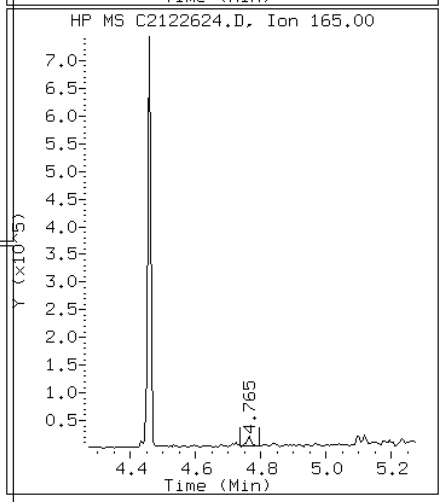












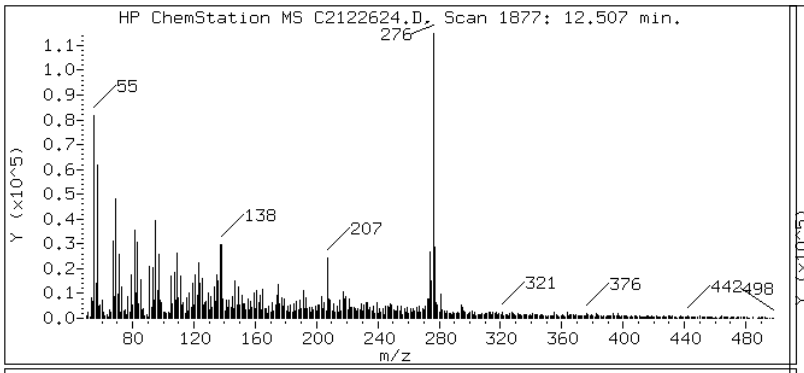
Data File: C2122624.D

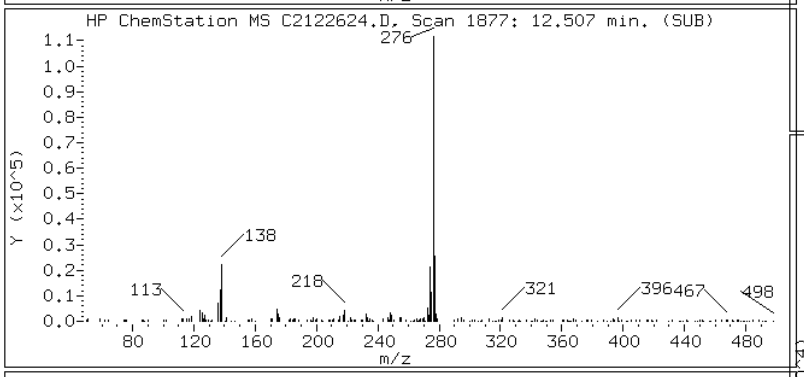
Date: 26-DEC-2012 20:21

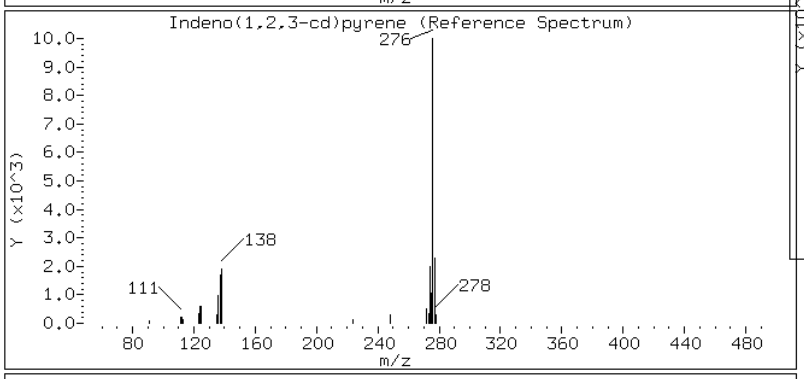
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

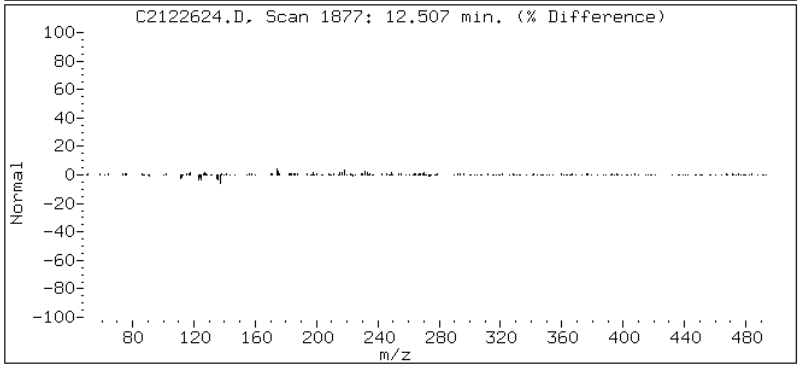
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

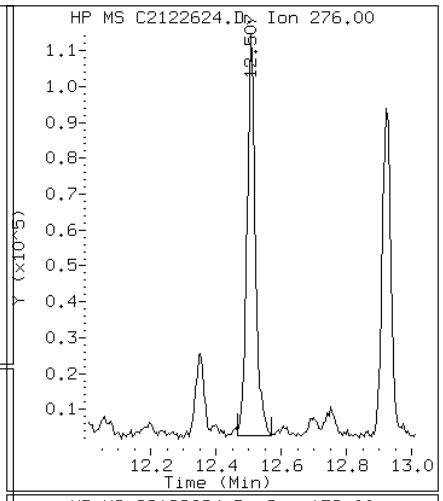
22 Indeno(1,2,3-cd)pyrene

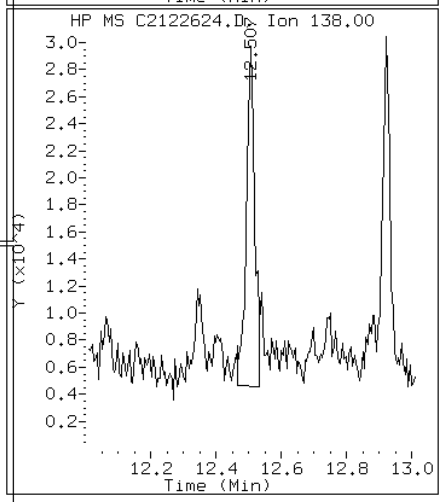












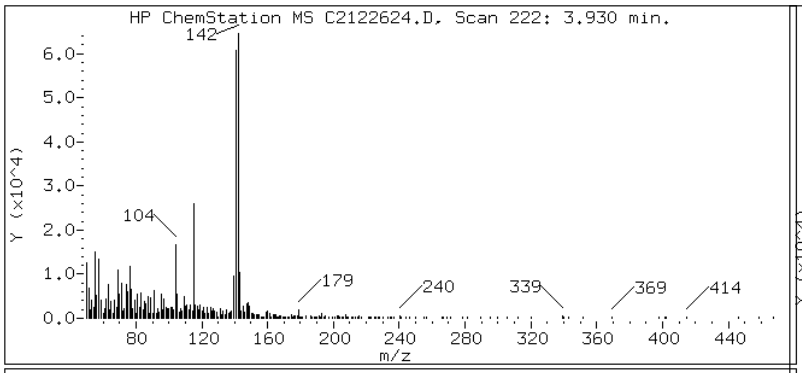
Data File: C2122624.D

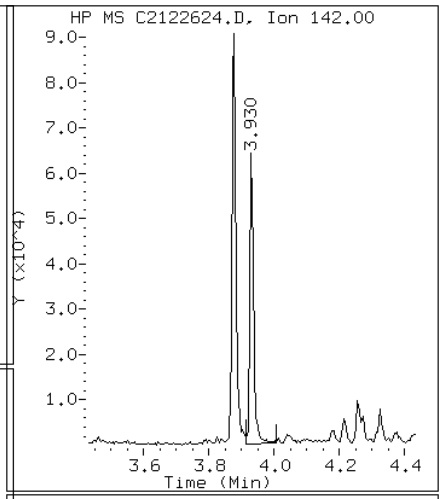
Date: 26-DEC-2012 20:21

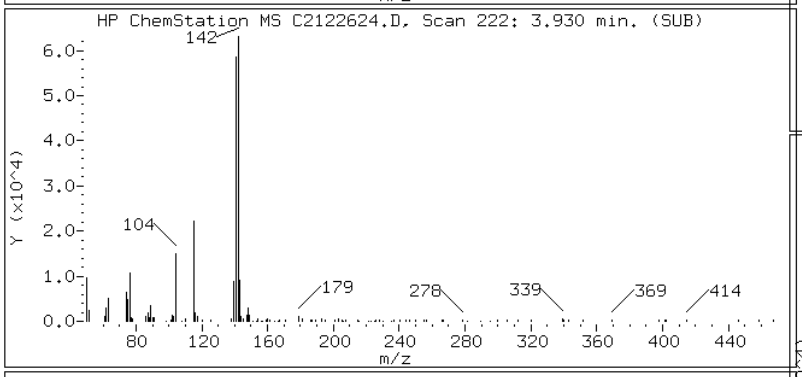
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

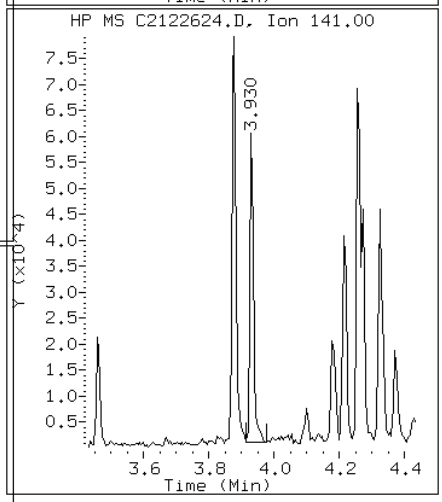
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

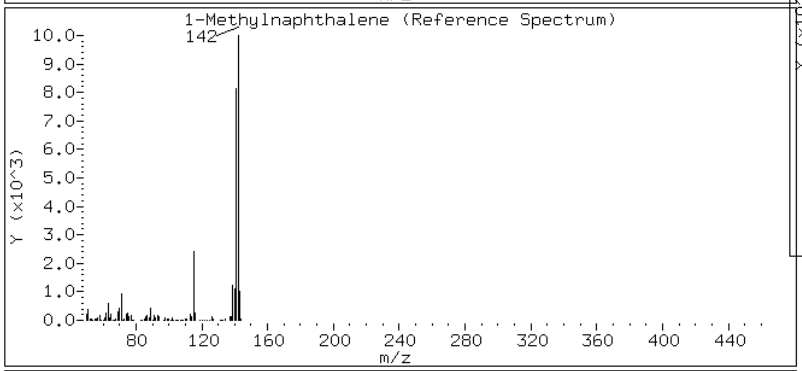
4 1-Methylnaphthalene

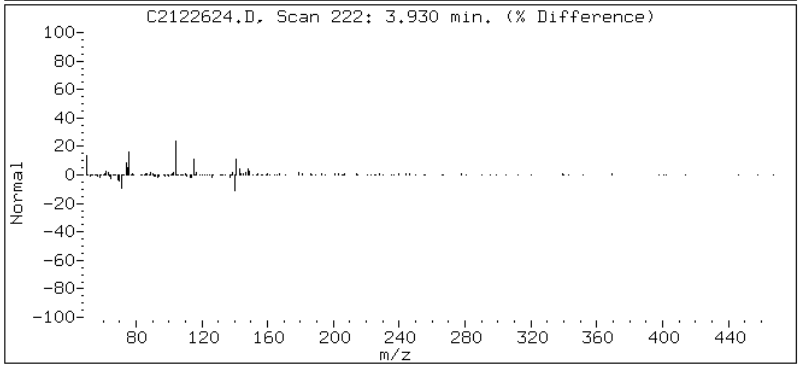












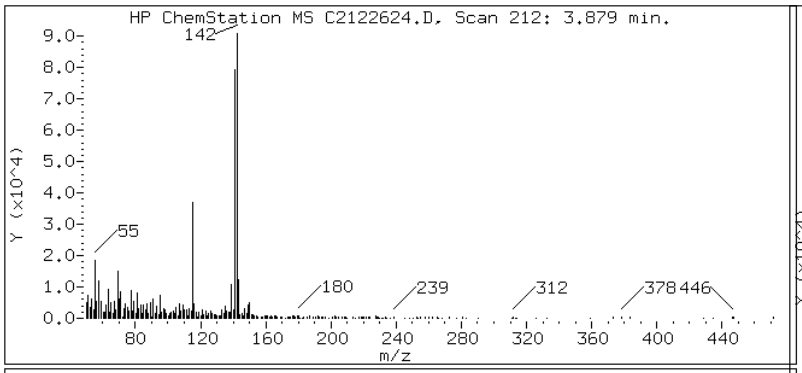
Data File: C2122624.D

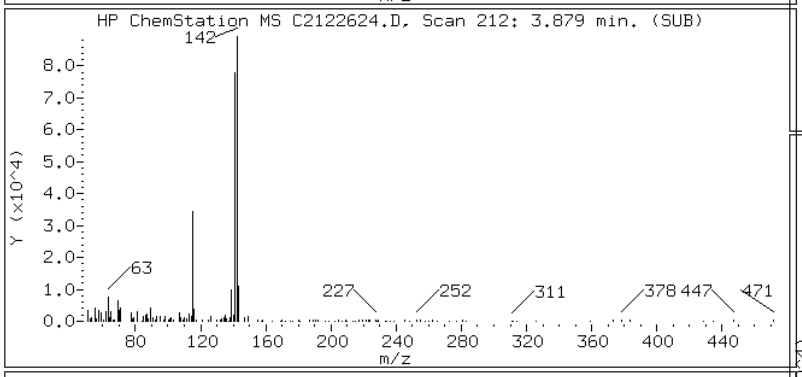
Date: 26-DEC-2012 20:21

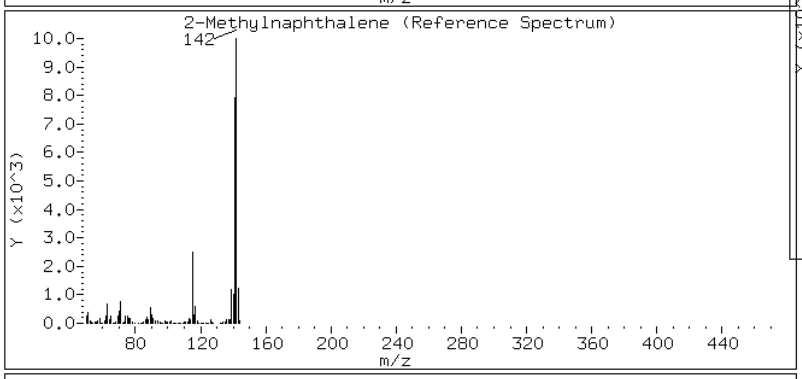
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

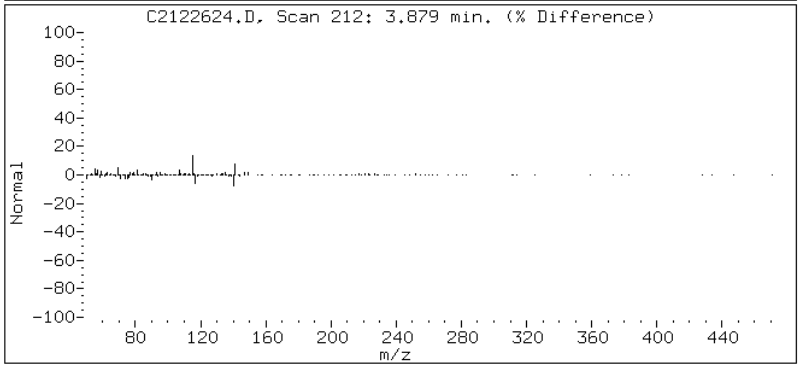
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

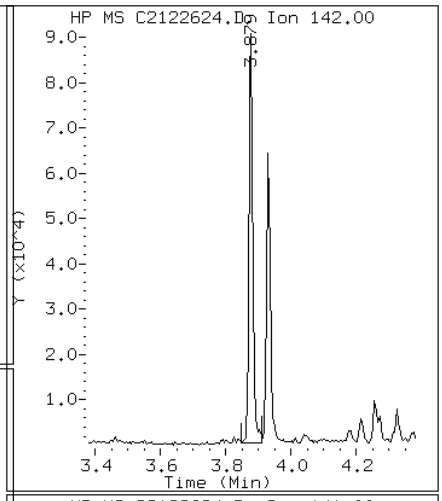
3 2-Methylnaphthalene

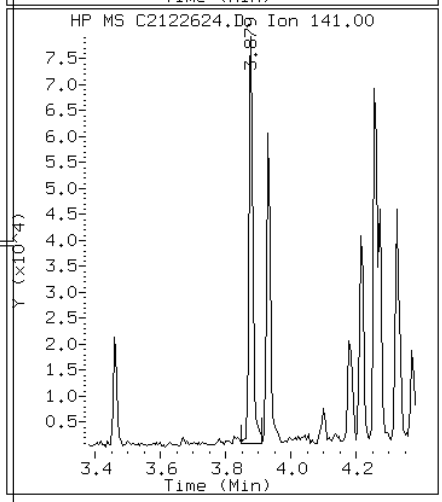












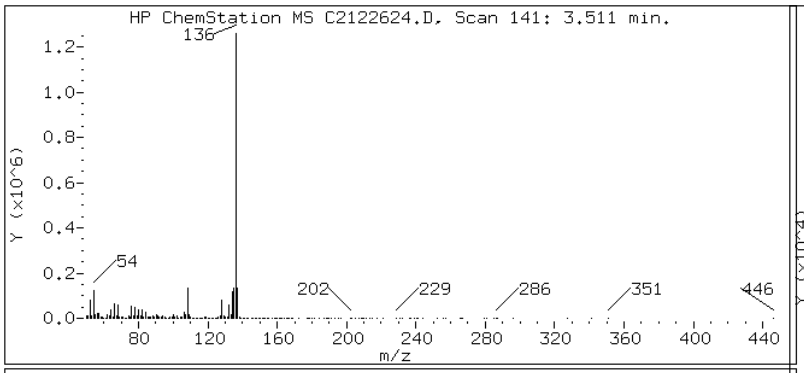
Data File: C2122624.D

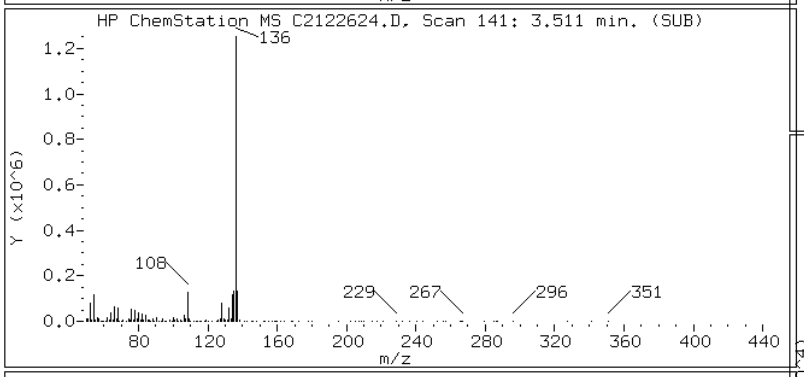
Date: 26-DEC-2012 20:21

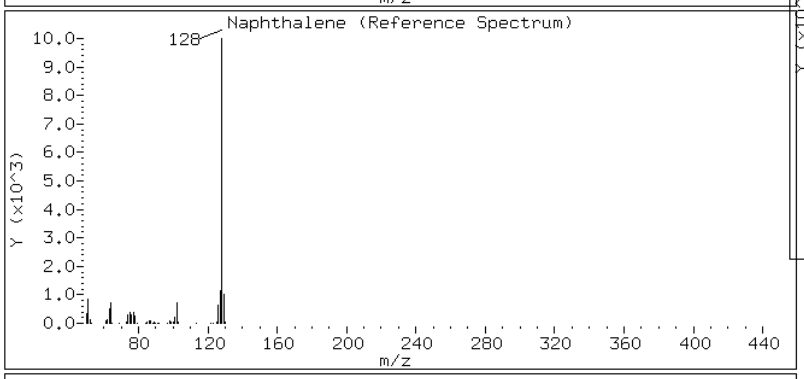
Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

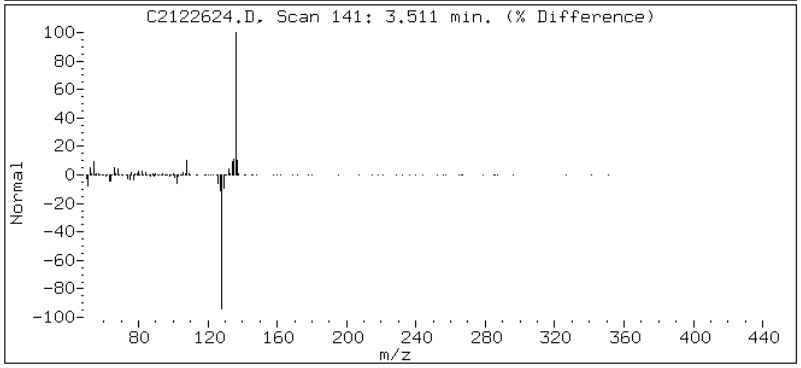
Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

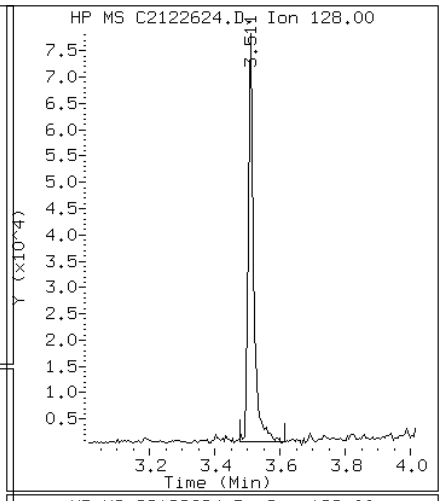
2 Naphthalene

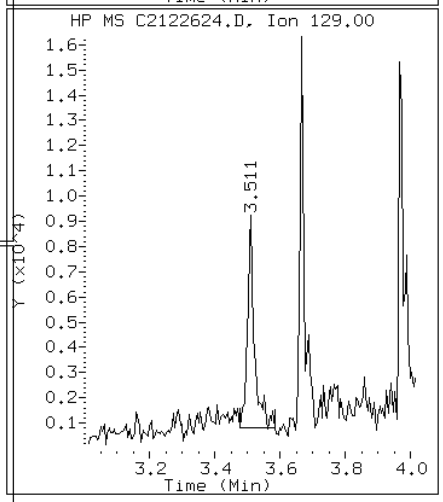












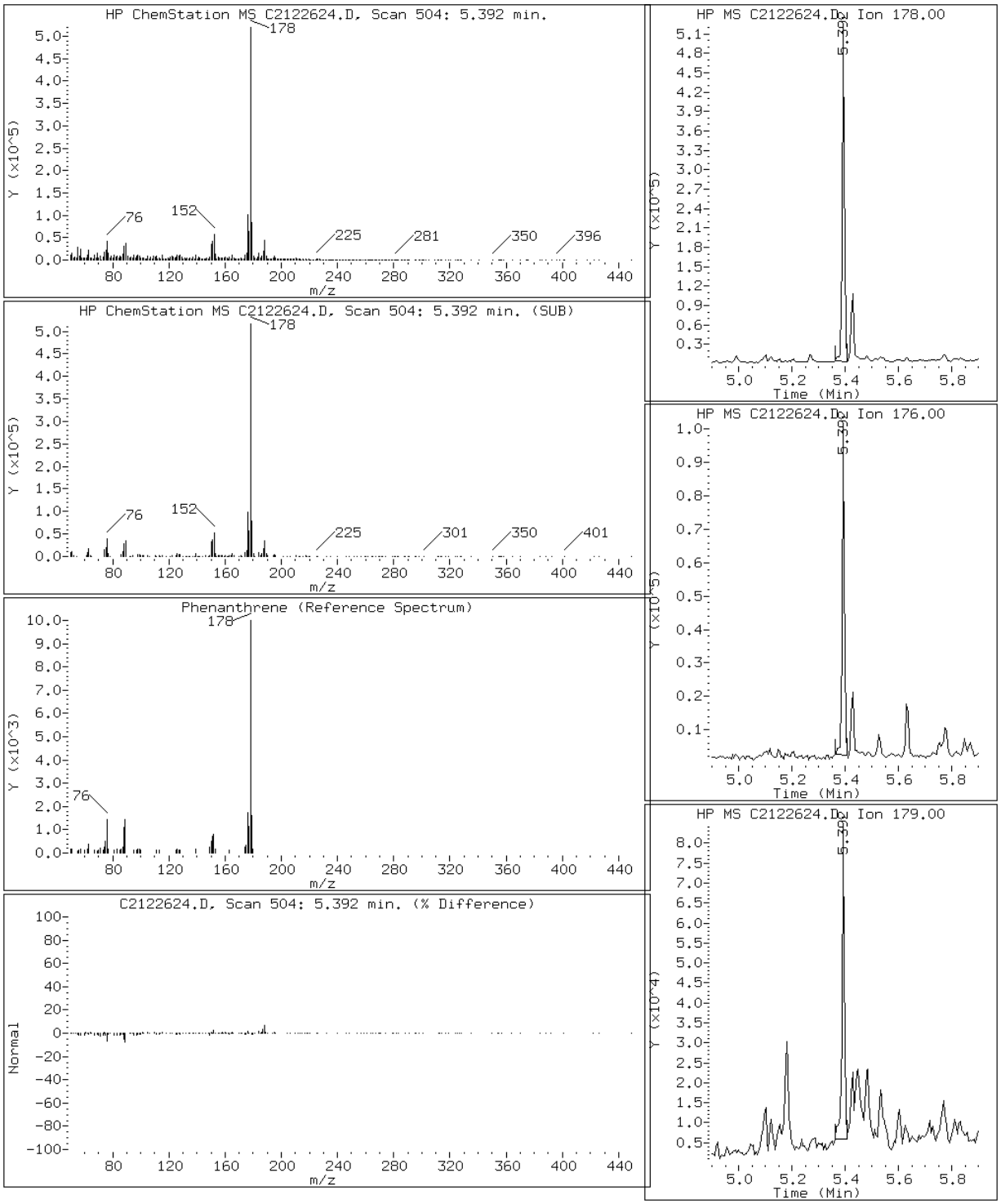
Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



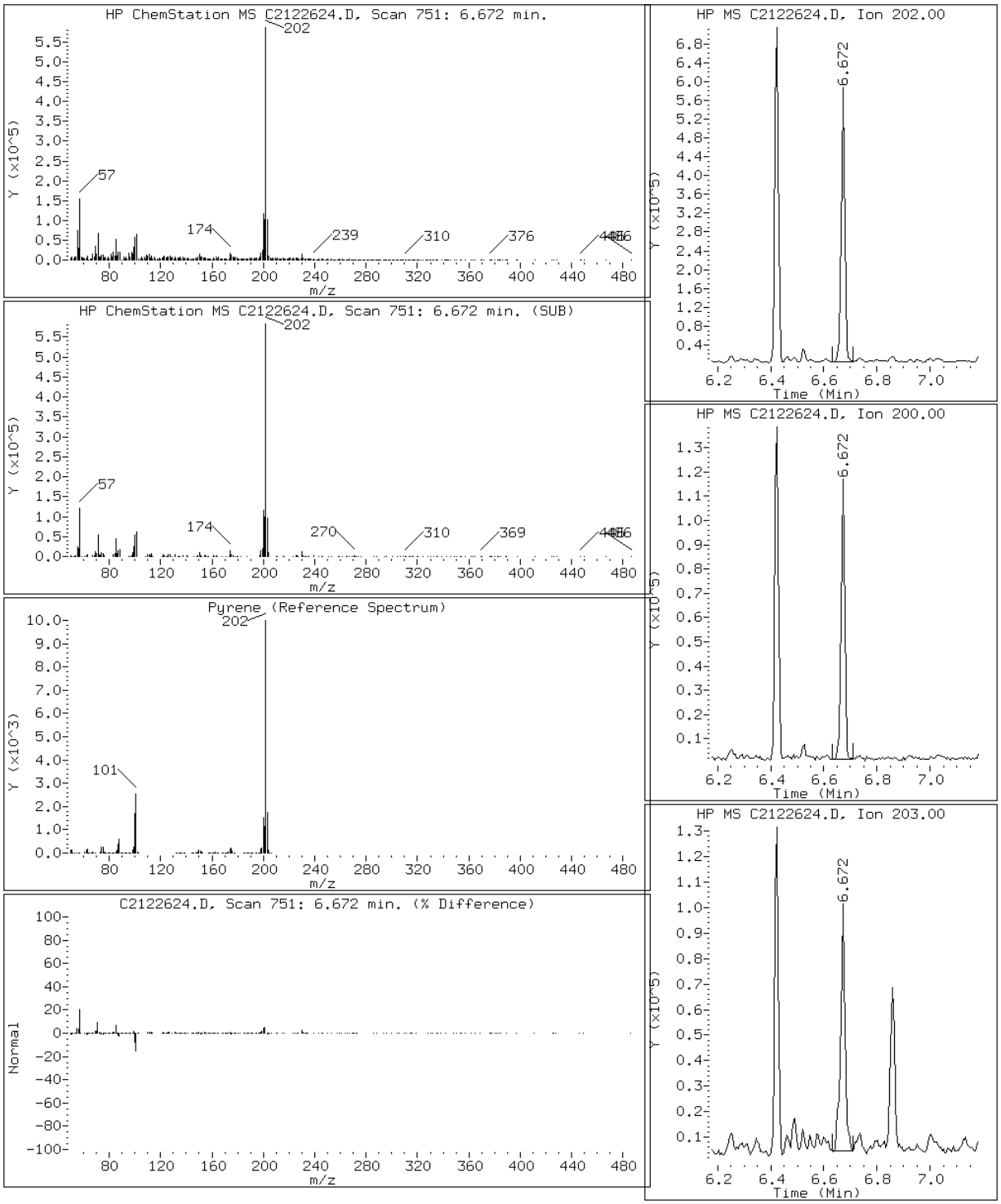
Data File: C2122624.D

Date: 26-DEC-2012 20:21

Client ID: HP0179B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-26-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122624.D
Inj. Date and Time: 26-DEC-2012 20:21
Instrument ID: TSMC5973.i
Client ID: HP0179B-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

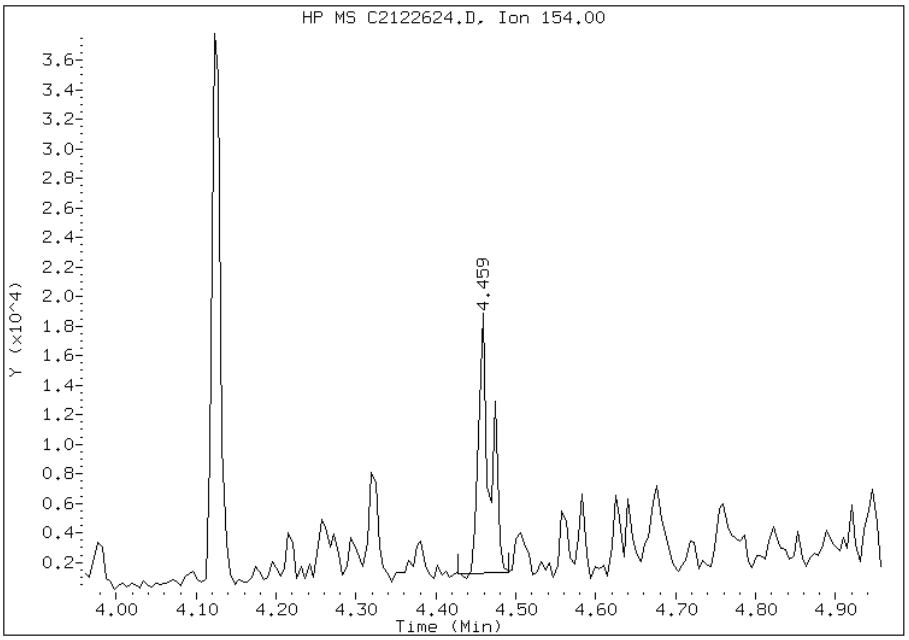
Processing Integration Results

RT: 4.46

Response: 17595

Amount: 0

Conc: 6



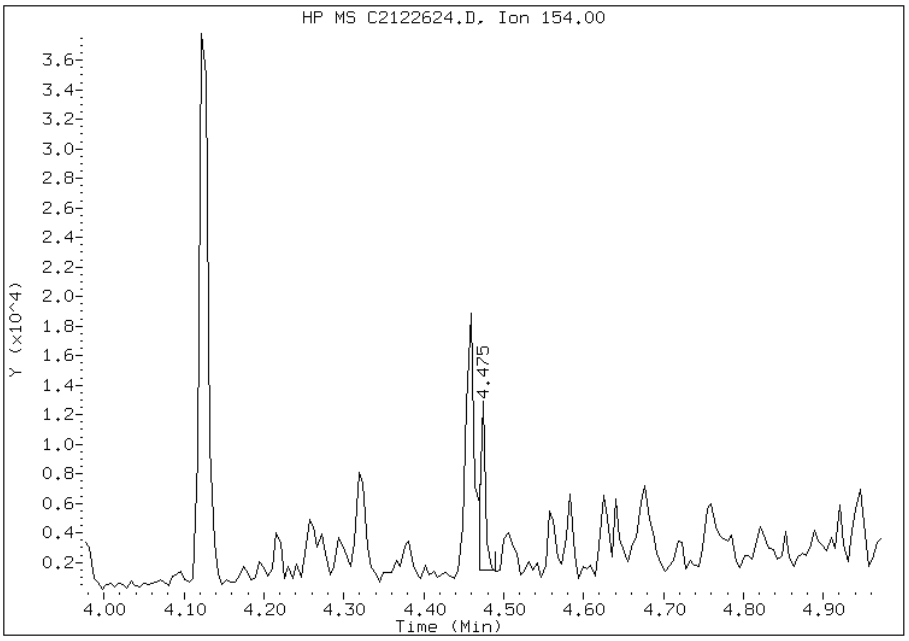
Manual Integration Results

RT: 4.47

Response: 5531

Amount: 0

Conc: 2



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122624.D
Inj. Date and Time: 26-DEC-2012 20:21
Instrument ID: TSMC5973.i
Client ID: HP0179B-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

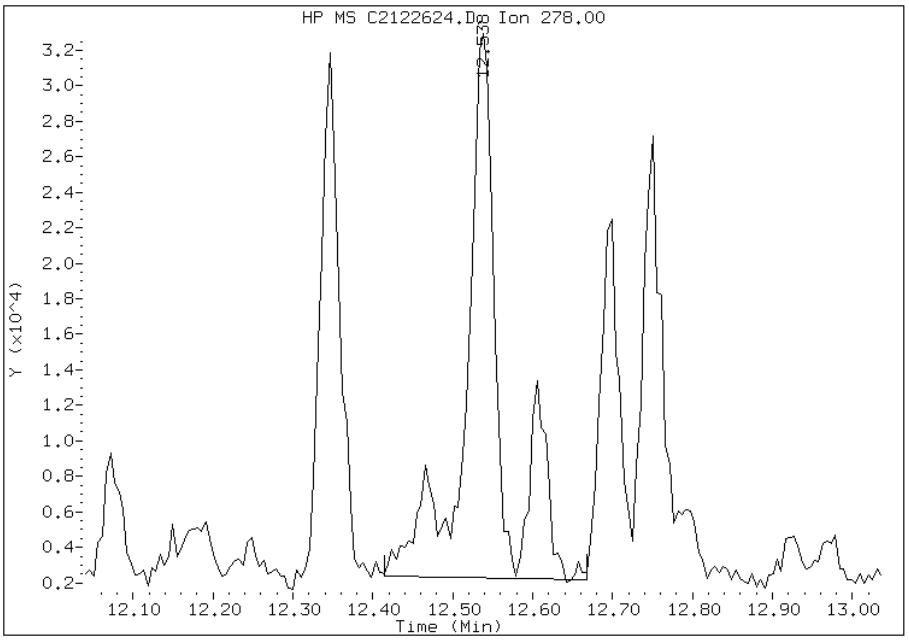
Processing Integration Results

RT: 12.54

Response: 93134

Amount: 0

Conc: 15



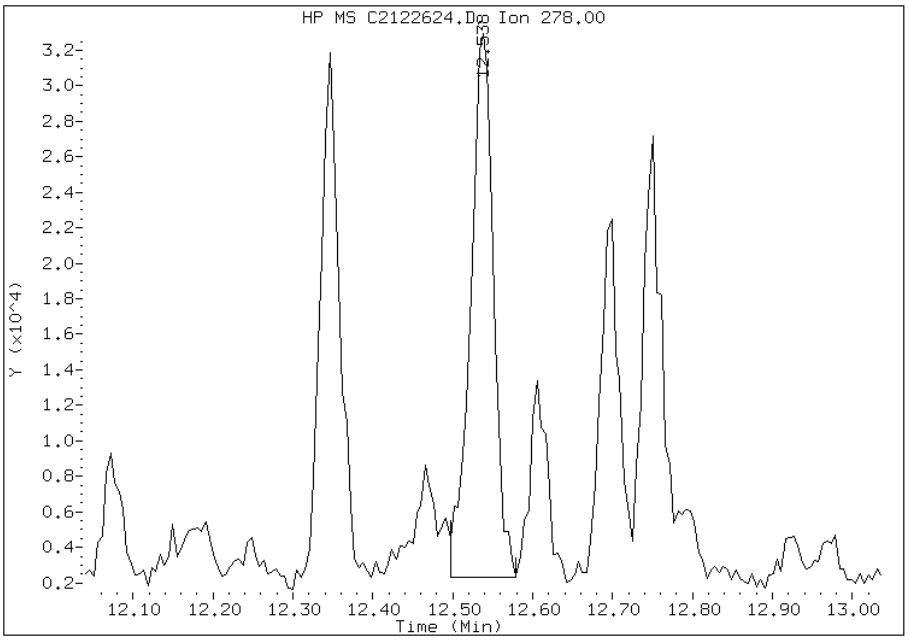
Manual Integration Results

RT: 12.54

Response: 62584

Amount: 0

Conc: 10



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:31
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: HP0294A-CS-SP | Lab Sample ID: 680-85785-27

Matrix: Solid | Lab File ID: C2122625.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:12

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.58(g) | Date Analyzed: 12/26/2012 20:40

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	12		8.9	0.77
208-96-8	Acenaphthylene	19		8.9	0.70
120-12-7	Anthracene	56		8.9	0.88
56-55-3	Benzo[a]anthracene	160		8.9	0.82
50-32-8	Benzo[a]pyrene	190		8.9	0.90
205-99-2	Benzo[b]fluoranthene	320		8.9	1.2
191-24-2	Benzo[g,h,i]perylene	71		8.9	1.5
207-08-9	Benzo[k]fluoranthene	120		8.9	0.85
218-01-9	Chrysene	230		8.9	1.0
53-70-3	Dibenz(a,h)anthracene	26		8.9	0.86
206-44-0	Fluoranthene	370		8.9	0.80
86-73-7	Fluorene	15		8.9	0.69
193-39-5	Indeno[1,2,3-cd]pyrene	85		8.9	1.5
90-12-0	1-Methylnaphthalene	29		8.9	0.70
91-57-6	2-Methylnaphthalene	36		8.9	0.69
91-20-3	Naphthalene	35		8.9	0.69
85-01-8	Phenanthrene	250		8.9	0.58
129-00-0	Pyrene	260		8.9	0.69

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	72		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122625.D
Lab Smp Id: 680-85785-A-27-A Client Smp ID: HP0294A-CS-SP
Inj Date : 26-DEC-2012 20:40
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-27-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.580	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.287	3.303	(0.939)	154715	1.85434	61	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	7753923	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	151505	0.79954	26	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	117821	0.81931	27	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	91060	0.64554	21	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	4327243	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	100400	0.43178	14	
7 Acenaphthene	154	4.474	4.479	(1.003)	32892	0.27038	8.8(QM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	54268	0.33416	11	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6995122	40.0000		
10 Phenanthrene	178	5.396	5.401	(1.003)	1115322	5.72315	190	
11 Anthracene	178	5.428	5.438	(1.009)	265773	1.25655	41	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	368819	2.88859	94	
13 Fluoranthene	202	6.428	6.433	(1.195)	2184479	8.37318	270	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.340	8.340	(1.000)	8532449	40.0000		
15 Pyrene	202	6.676	6.682	(0.801)	1897745	5.93670	190	
16 Benzo(a)anthracene	228	8.314	8.309	(0.997)	1033161	3.51933	120	
17 Chrysene	228	8.371	8.371	(1.004)	1319817	5.22206	170	
* 18 Perylene-d12	264	10.786	10.781	(1.000)	7430837	40.0000		
19 Benzo(b)fluoranthene	252	10.107	10.102	(0.937)	1714917	7.24456	240	
20 Benzo(k)fluoranthene	252	10.149	10.154	(0.941)	622007	2.70293	88	
21 Benzo(a)pyrene	252	10.656	10.656	(0.988)	917803	4.36426	140	
22 Indeno(1,2,3-cd)pyrene	276	12.506	12.512	(1.160)	432950	1.92922	63	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.162)	128721	0.58406	19(M)	BAS
24 Benzo(g,h,i)perylene	276	12.921	12.921	(1.198)	357375	1.60894	53	

QC Flag Legend

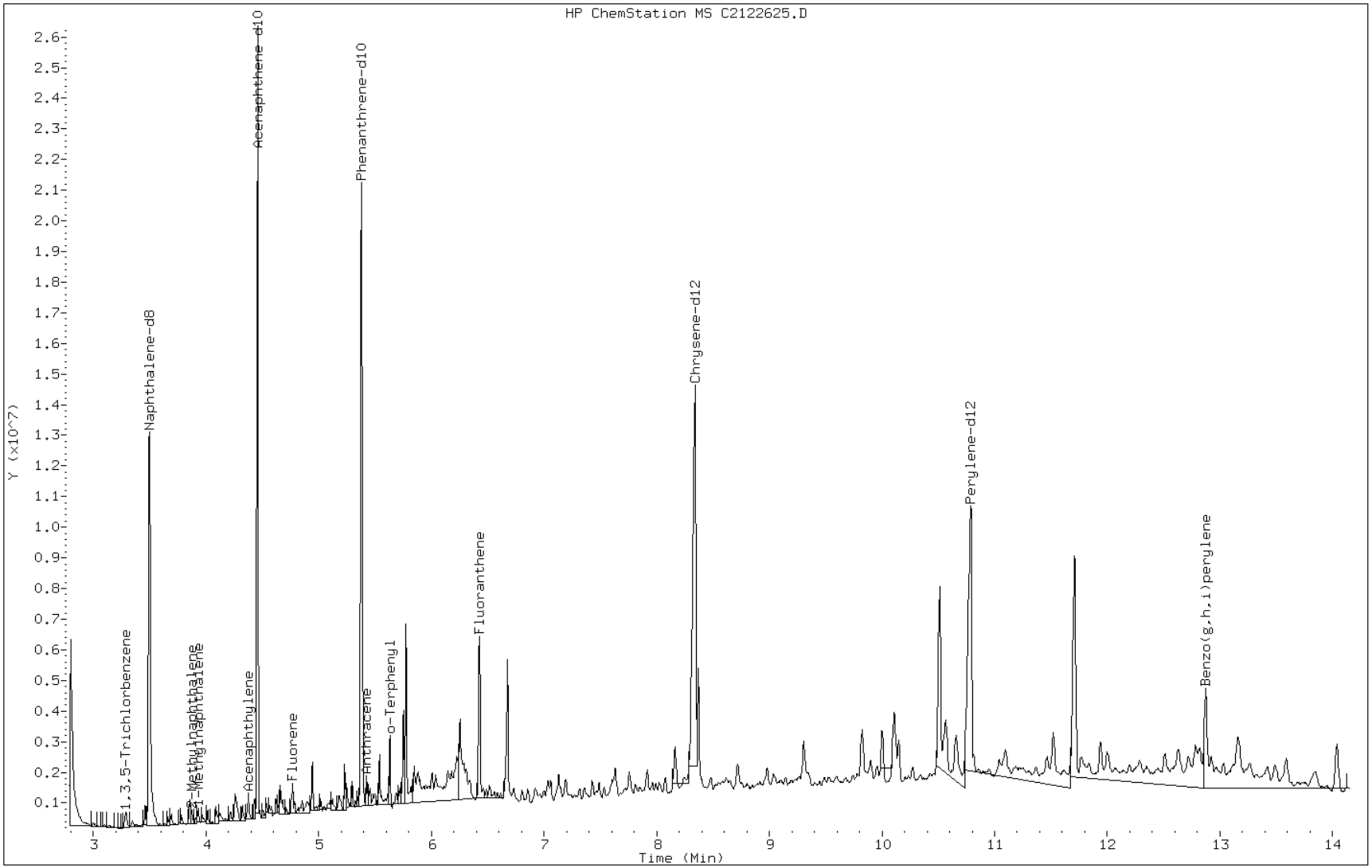
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW



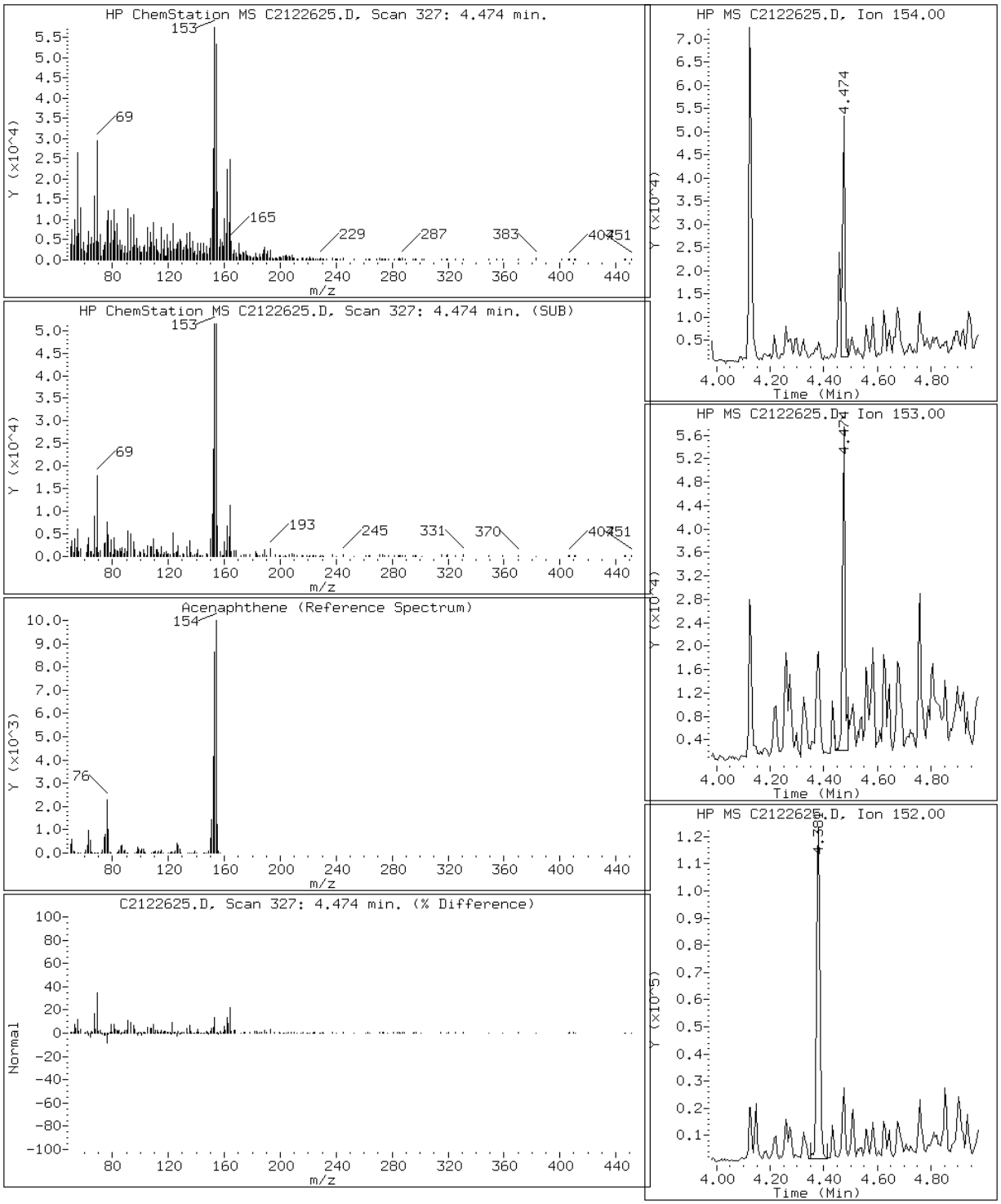
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



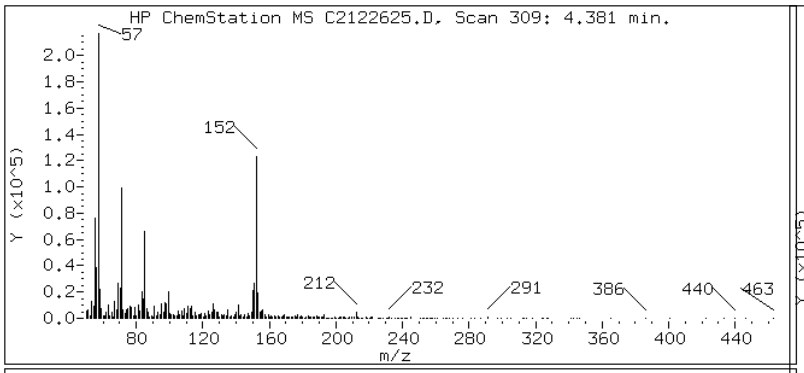
Data File: C2122625.D

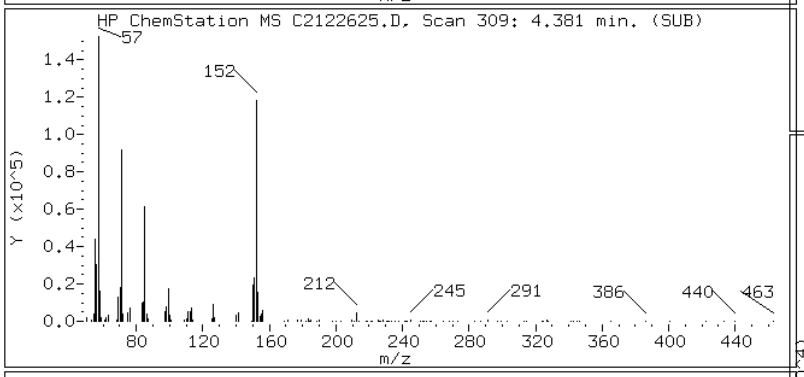
Date: 26-DEC-2012 20:40

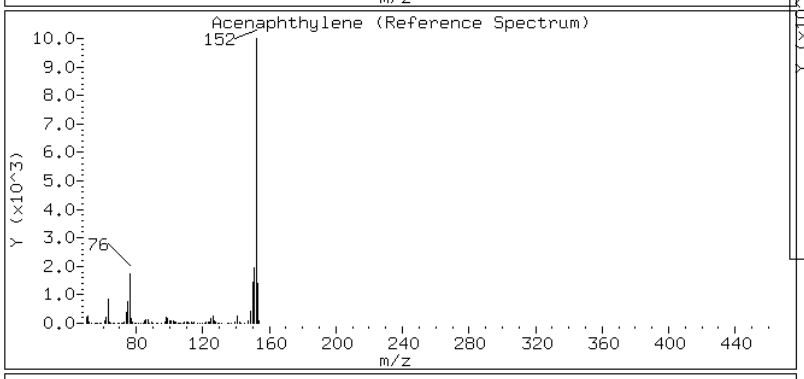
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

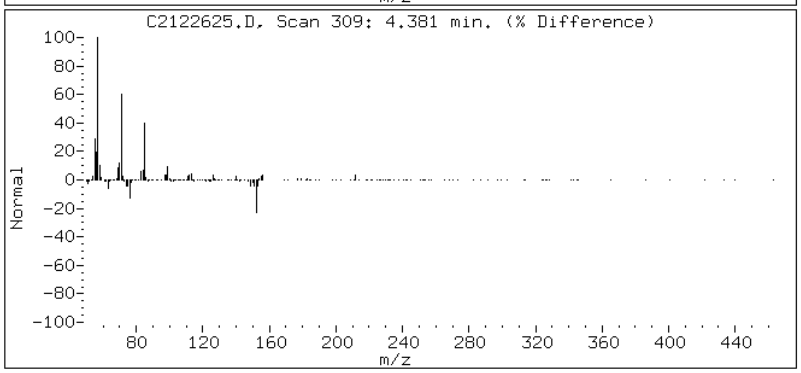
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

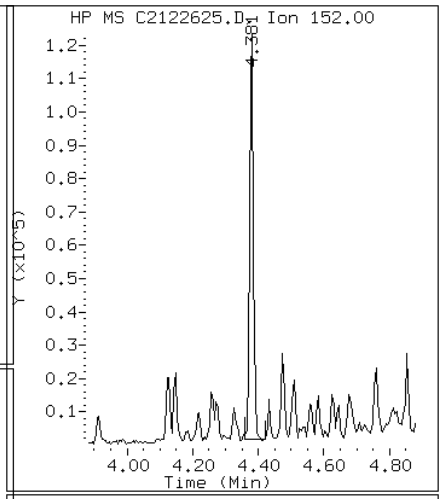
6 Acenaphthylene

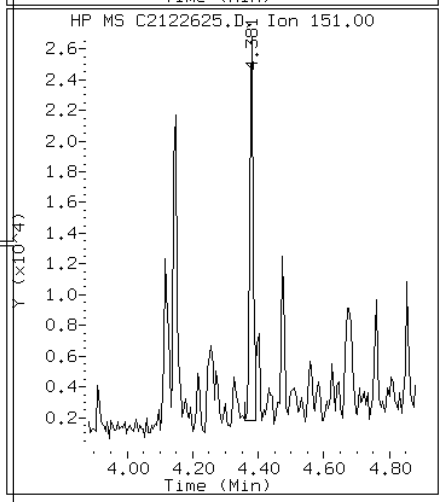












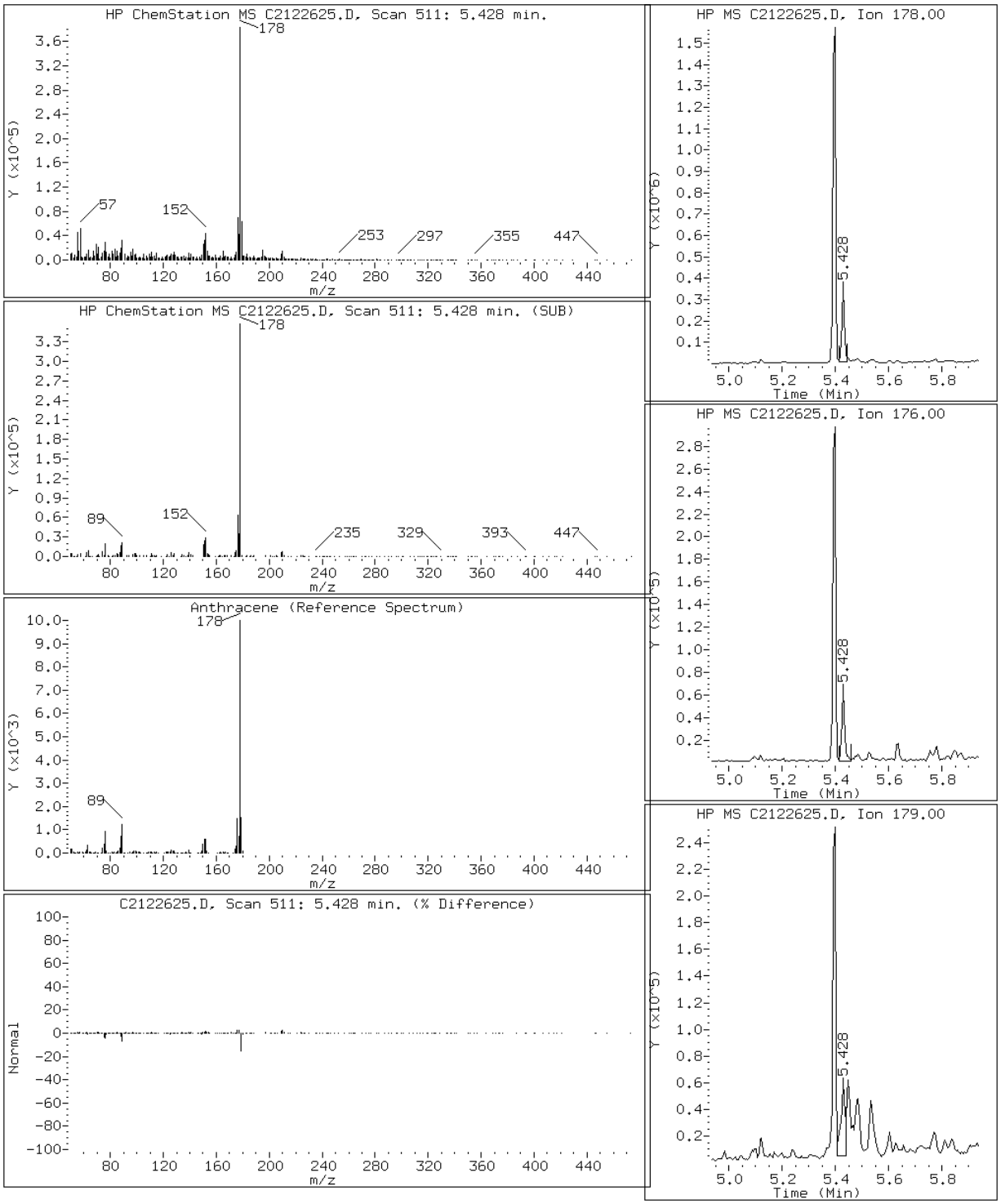
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

11 Anthracene



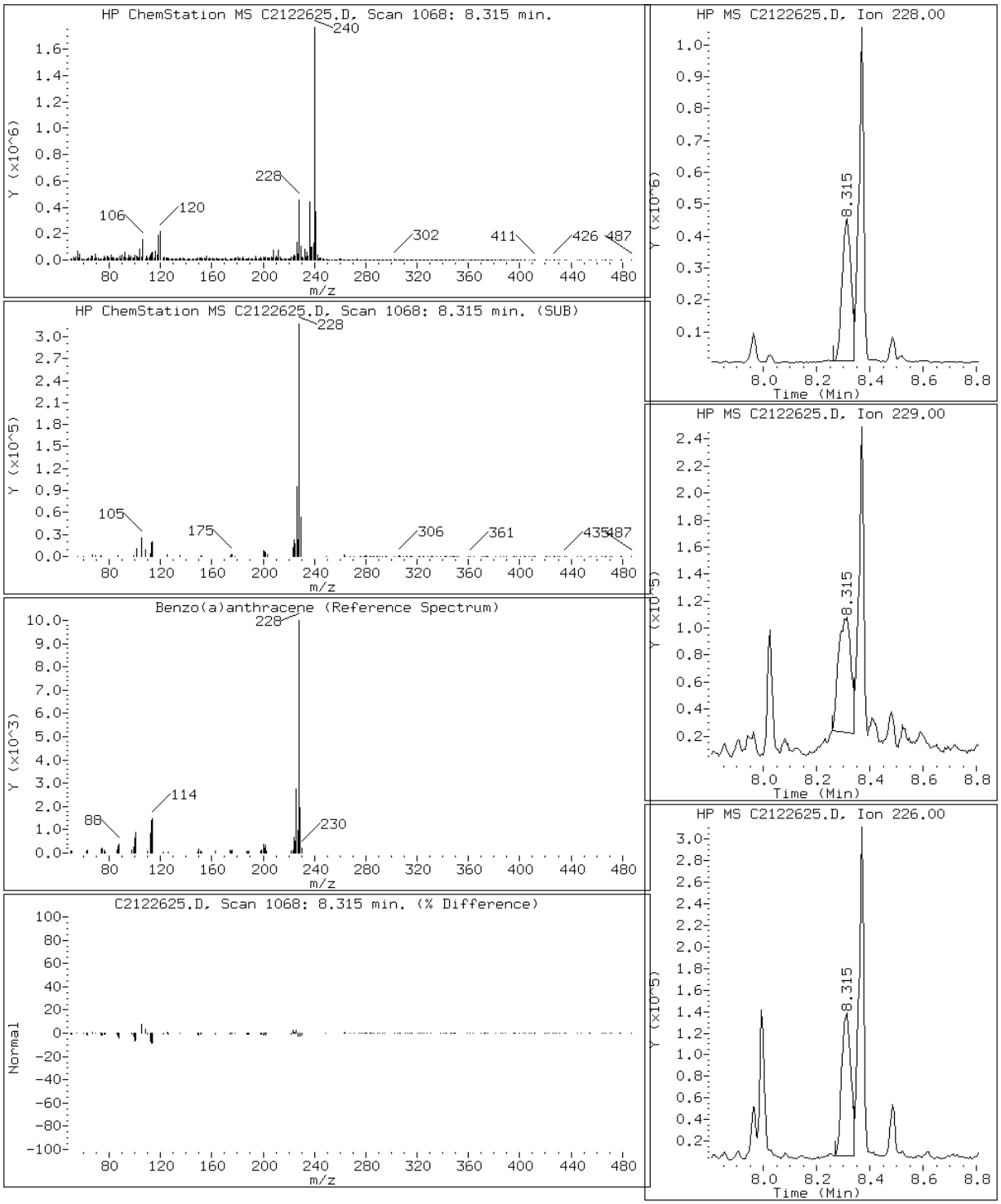
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



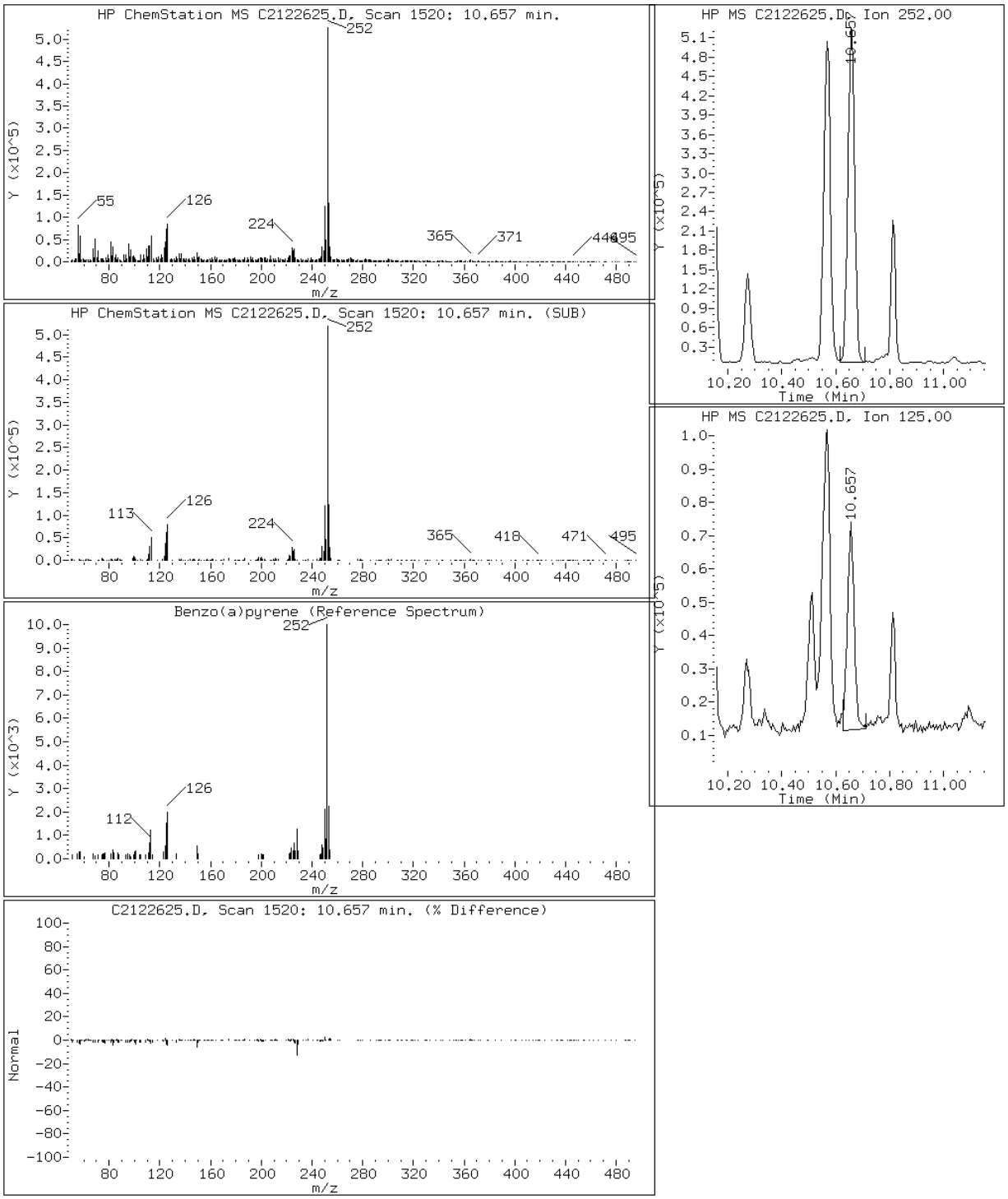
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

21 Benzo(a)pyrene



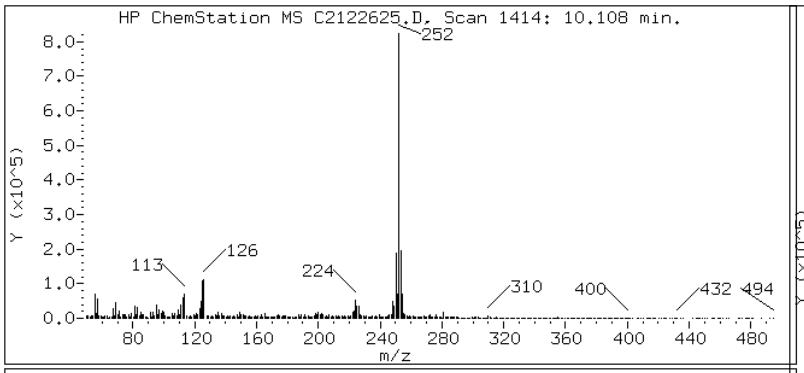
Data File: C2122625.D

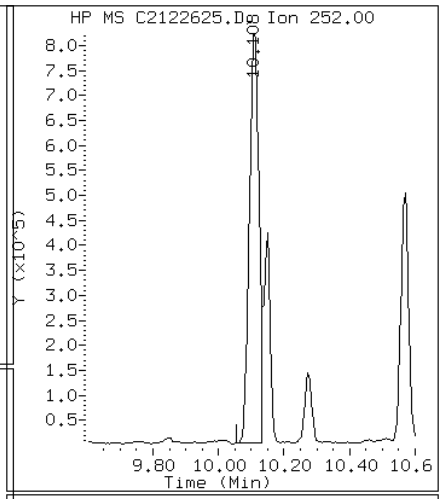
Date: 26-DEC-2012 20:40

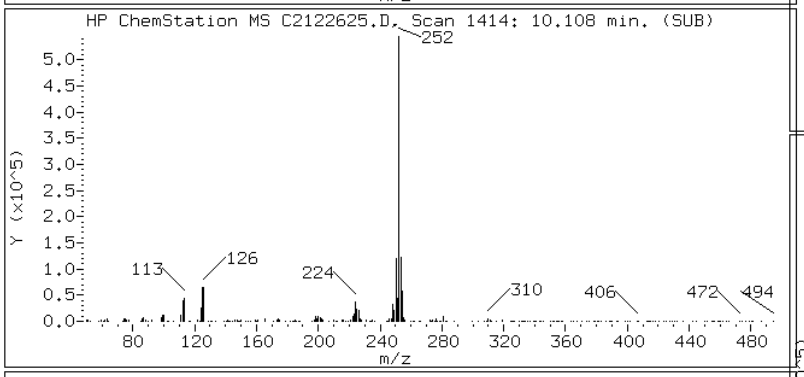
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

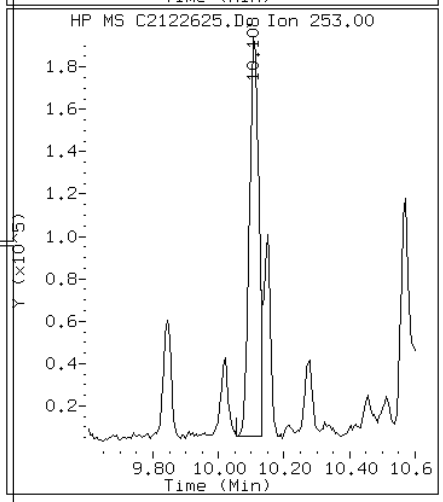
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

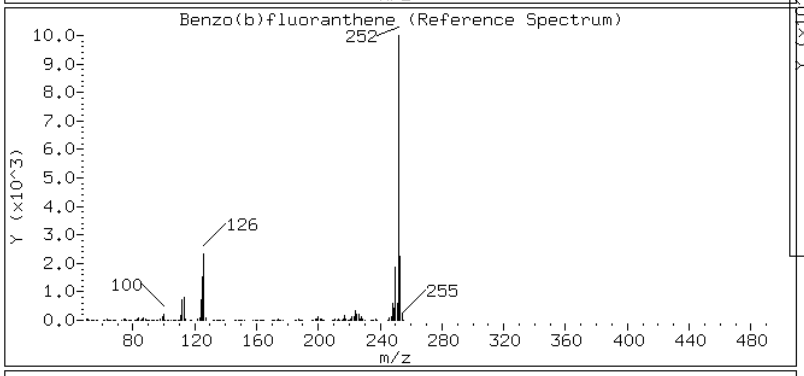
19 Benzo(b)fluoranthene

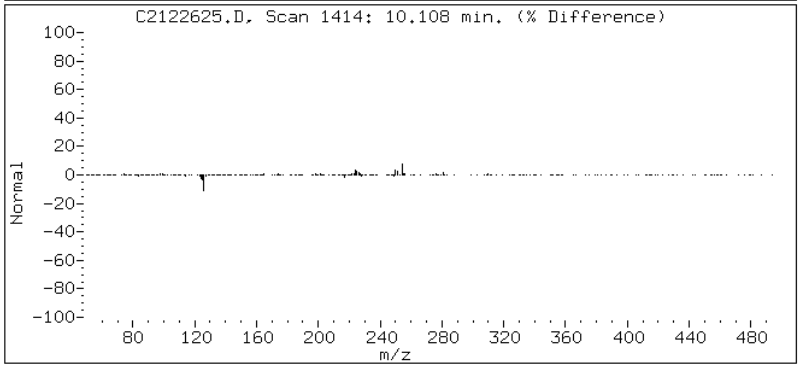












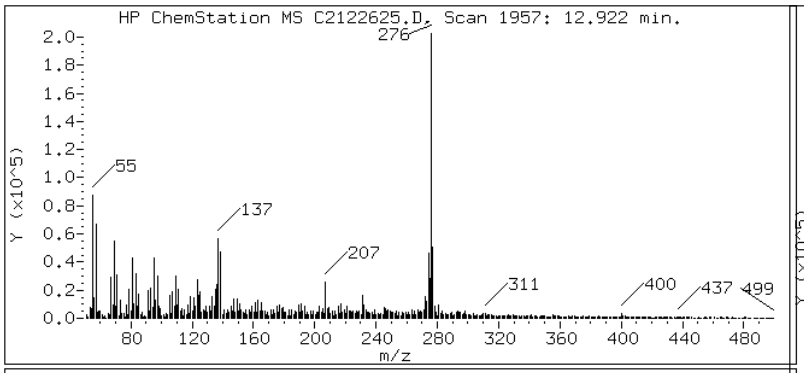
Data File: C2122625.D

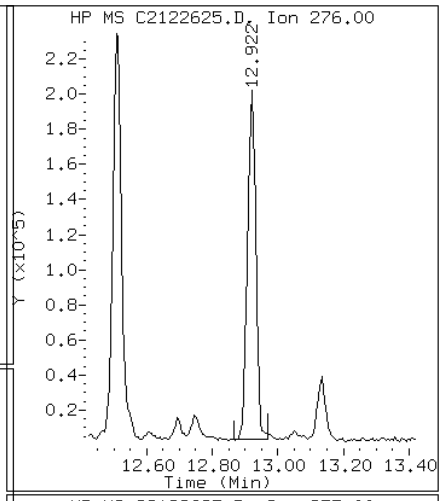
Date: 26-DEC-2012 20:40

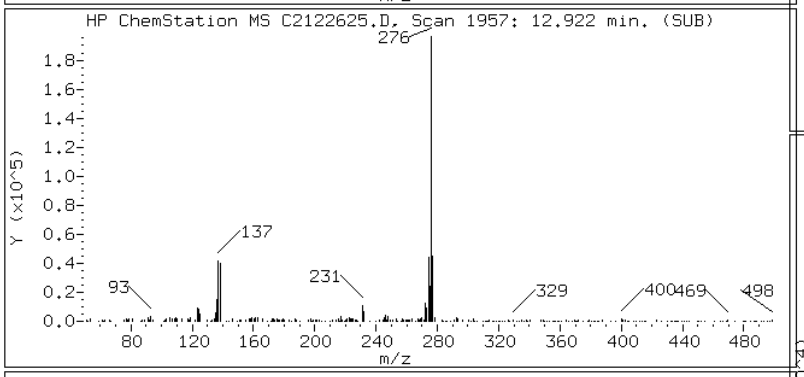
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

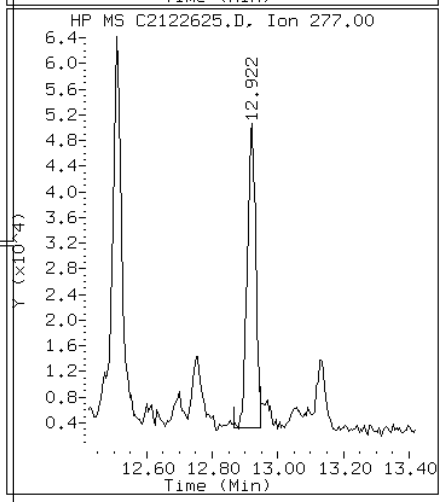
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

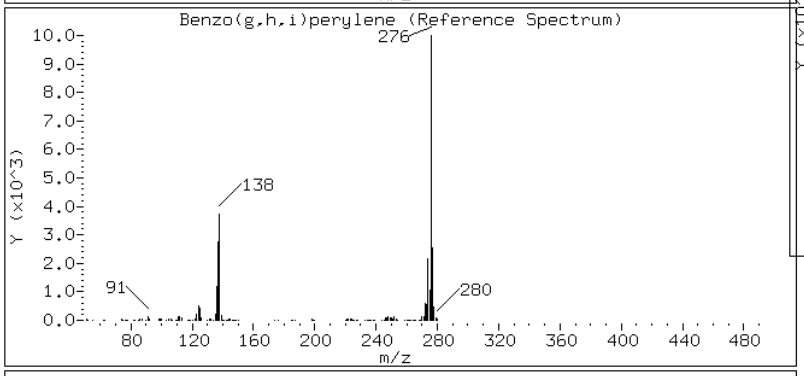
24 Benzo(g,h,i)perylene

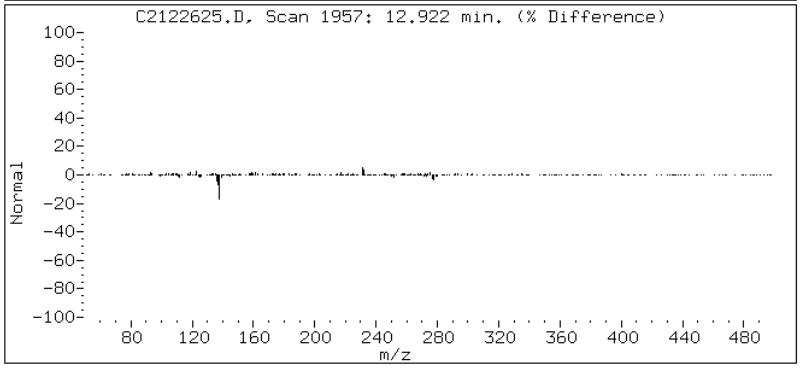












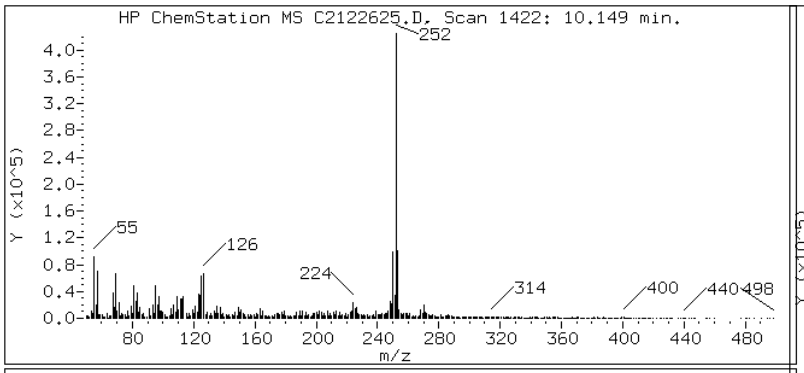
Data File: C2122625.D

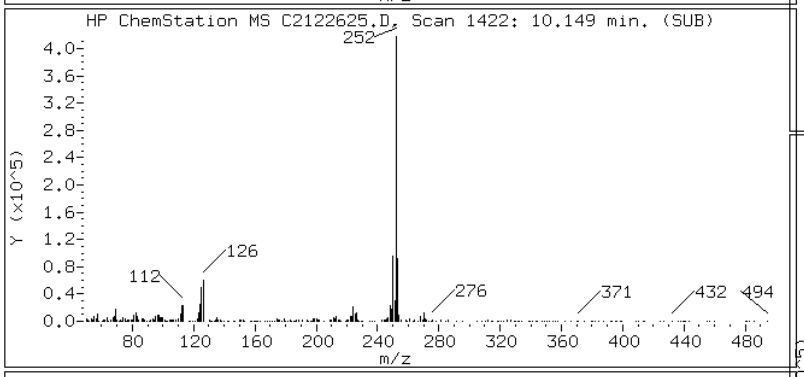
Date: 26-DEC-2012 20:40

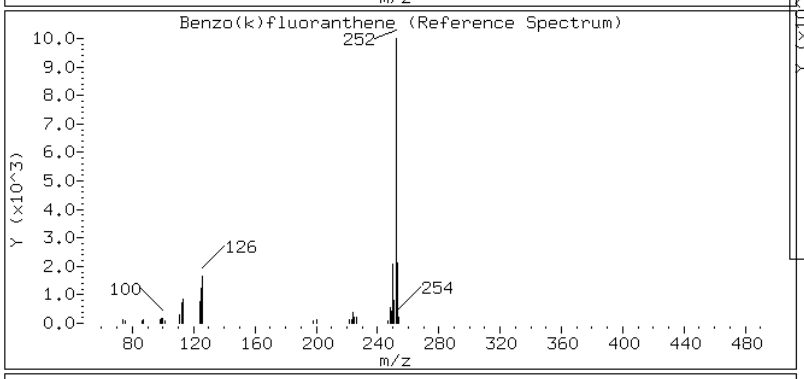
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

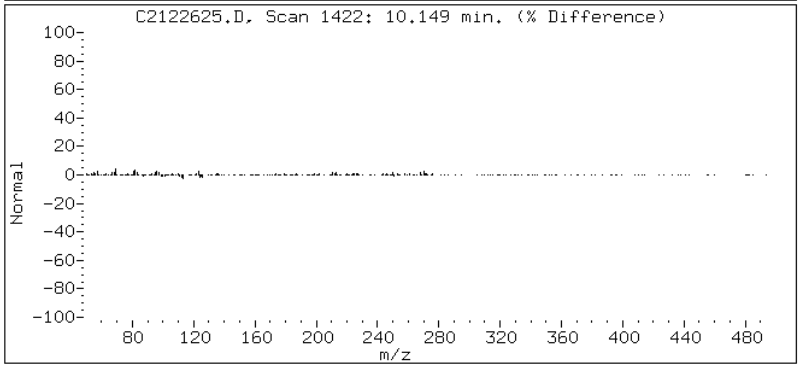
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

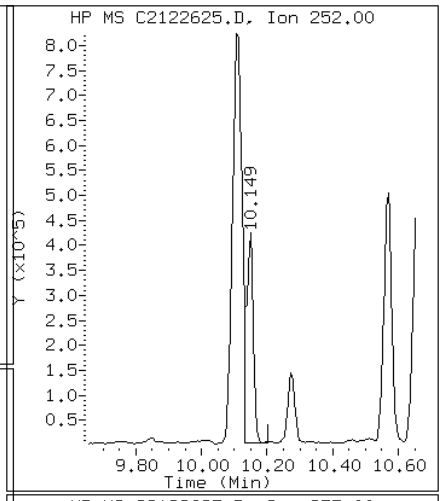
20 Benzo(k)fluoranthene

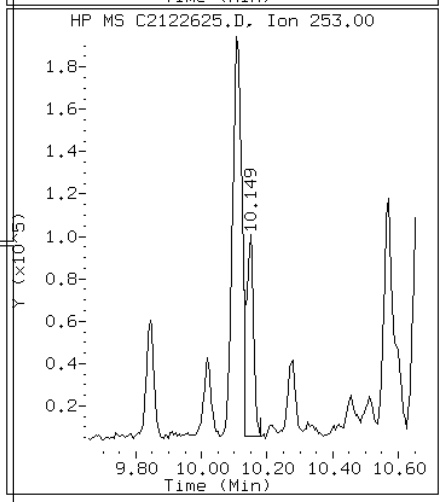












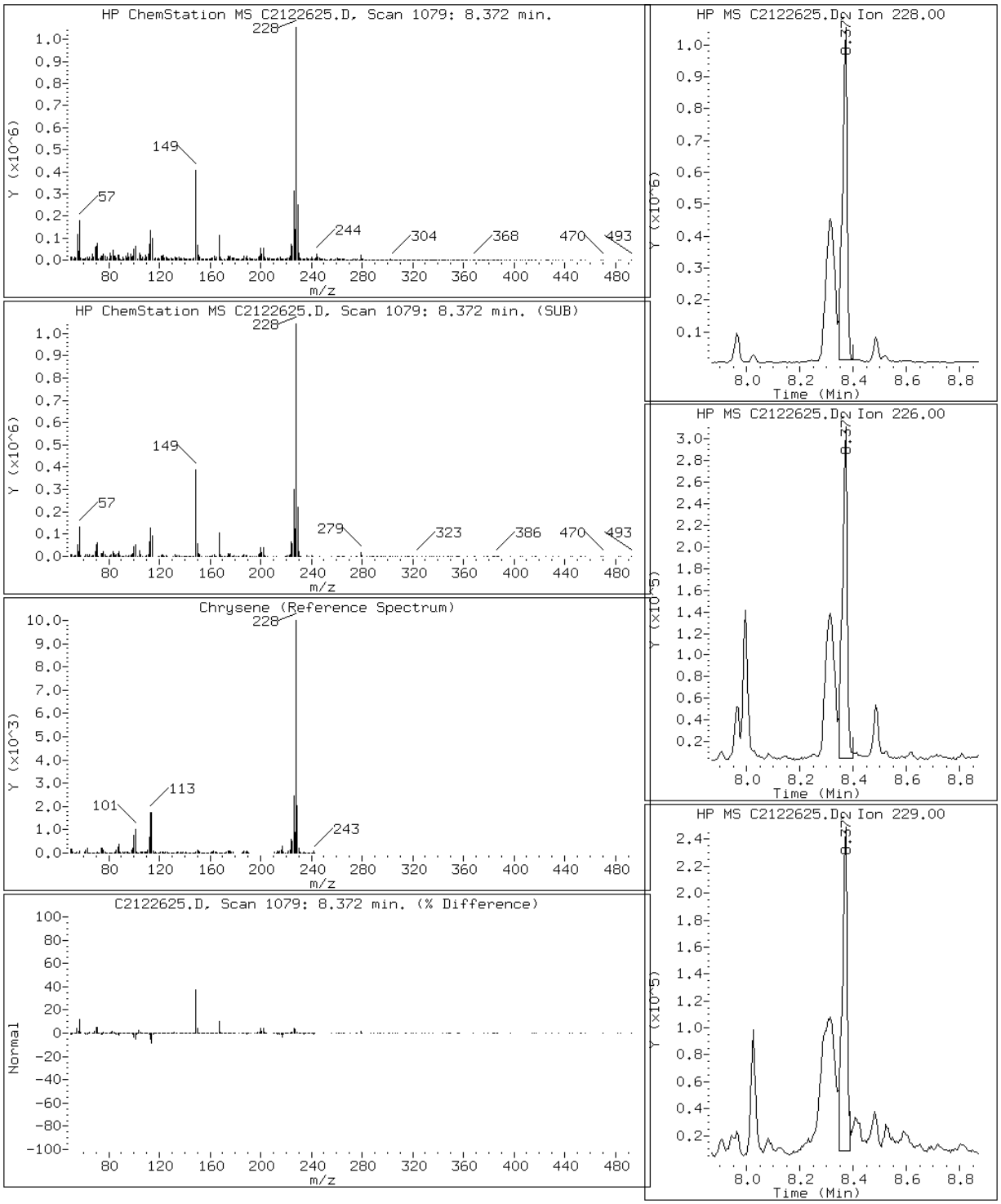
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

17 Chrysene



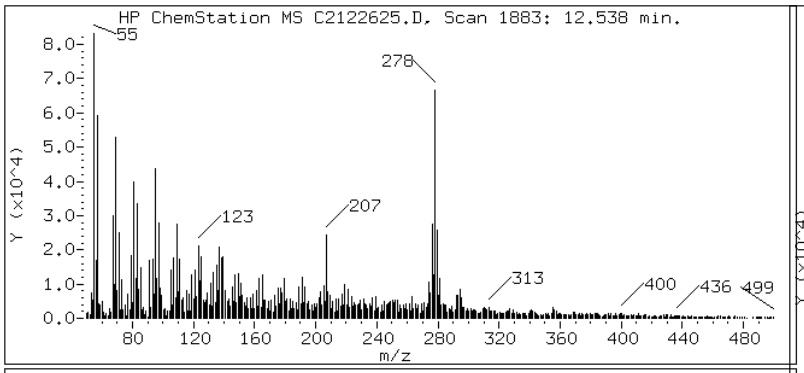
Data File: C2122625.D

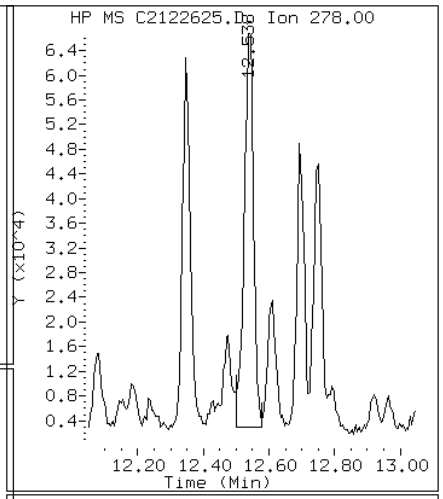
Date: 26-DEC-2012 20:40

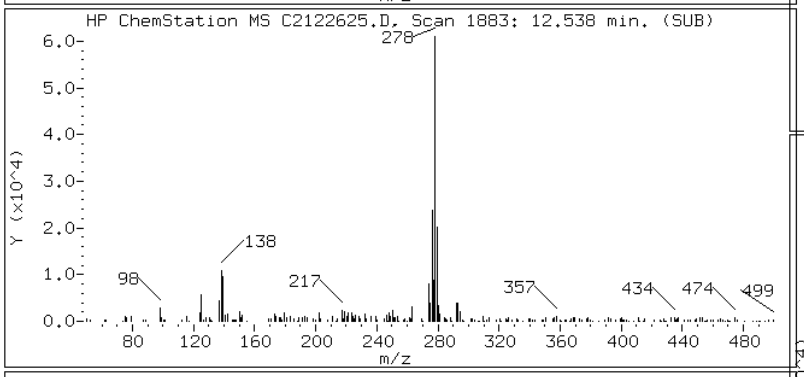
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

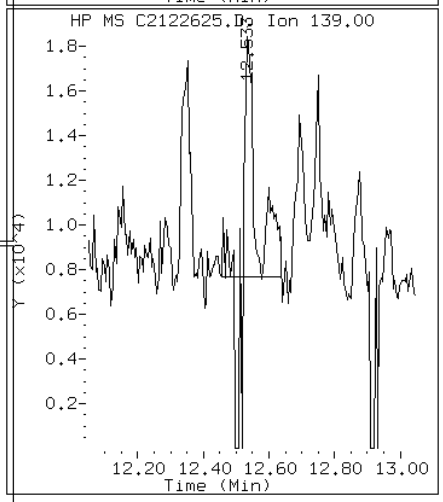
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

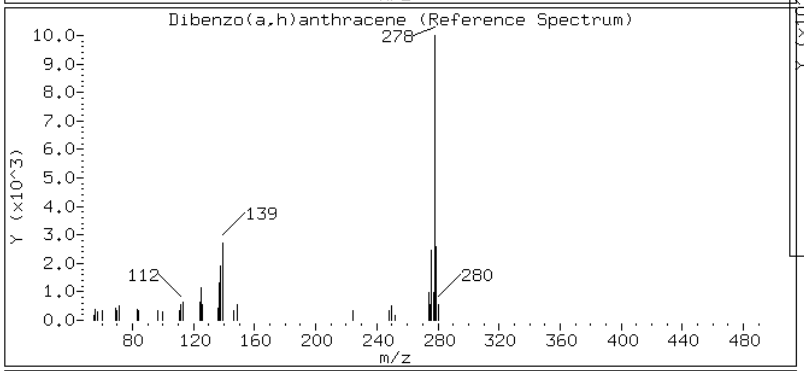
23 Dibenzo(a,h)anthracene

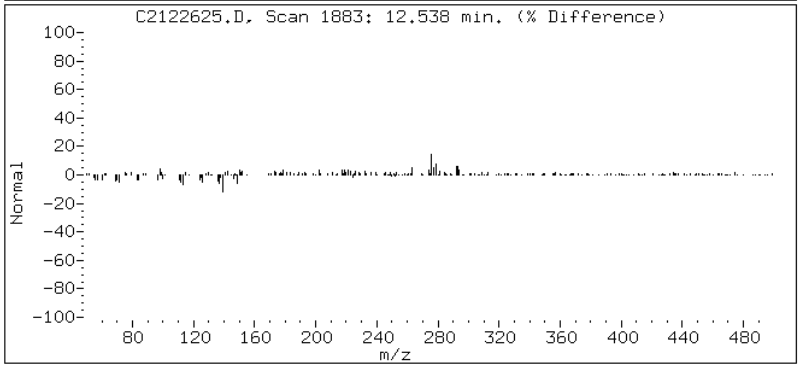












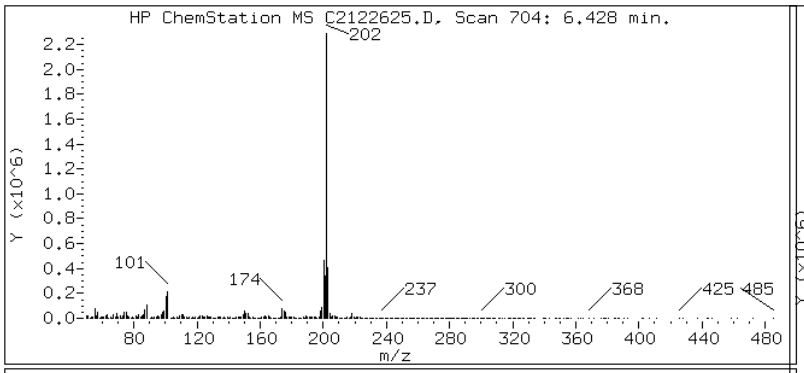
Data File: C2122625.D

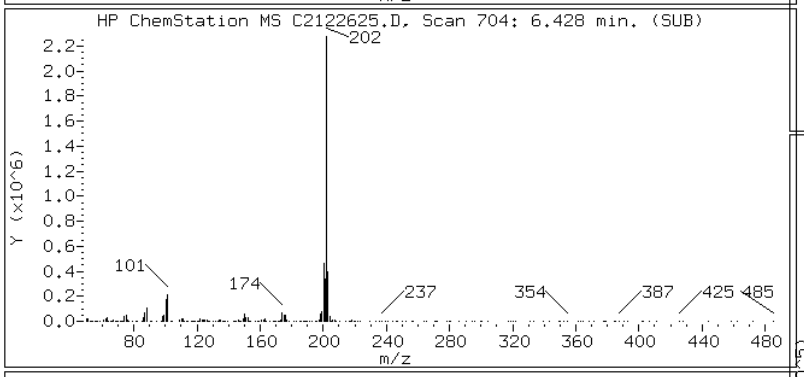
Date: 26-DEC-2012 20:40

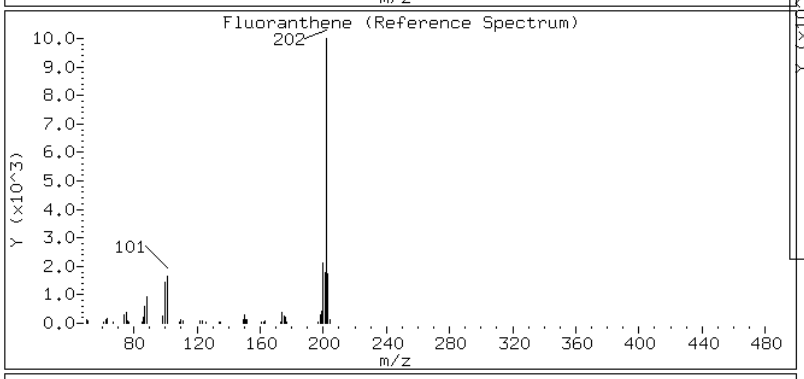
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

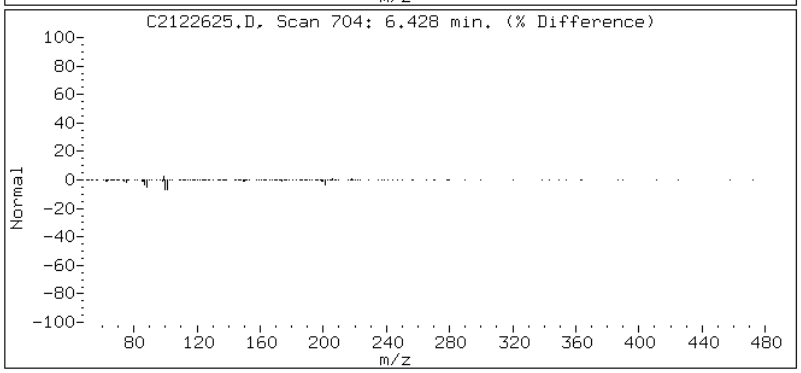
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

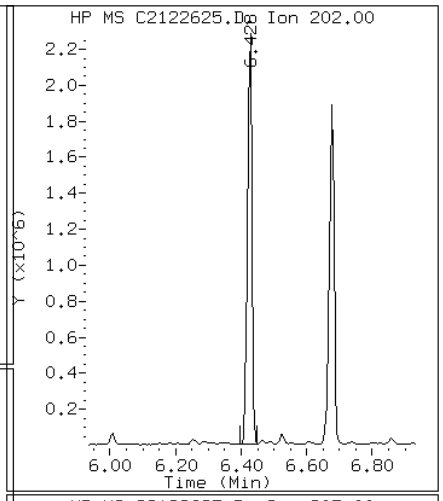
13 Fluoranthene

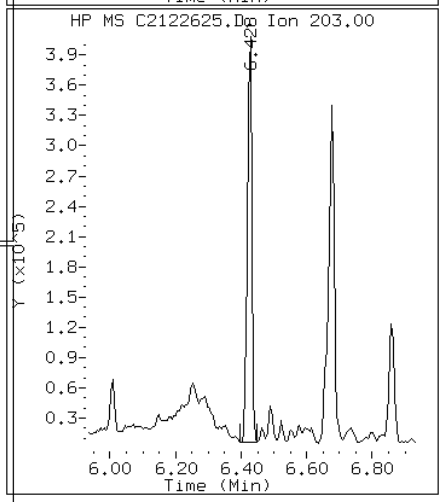












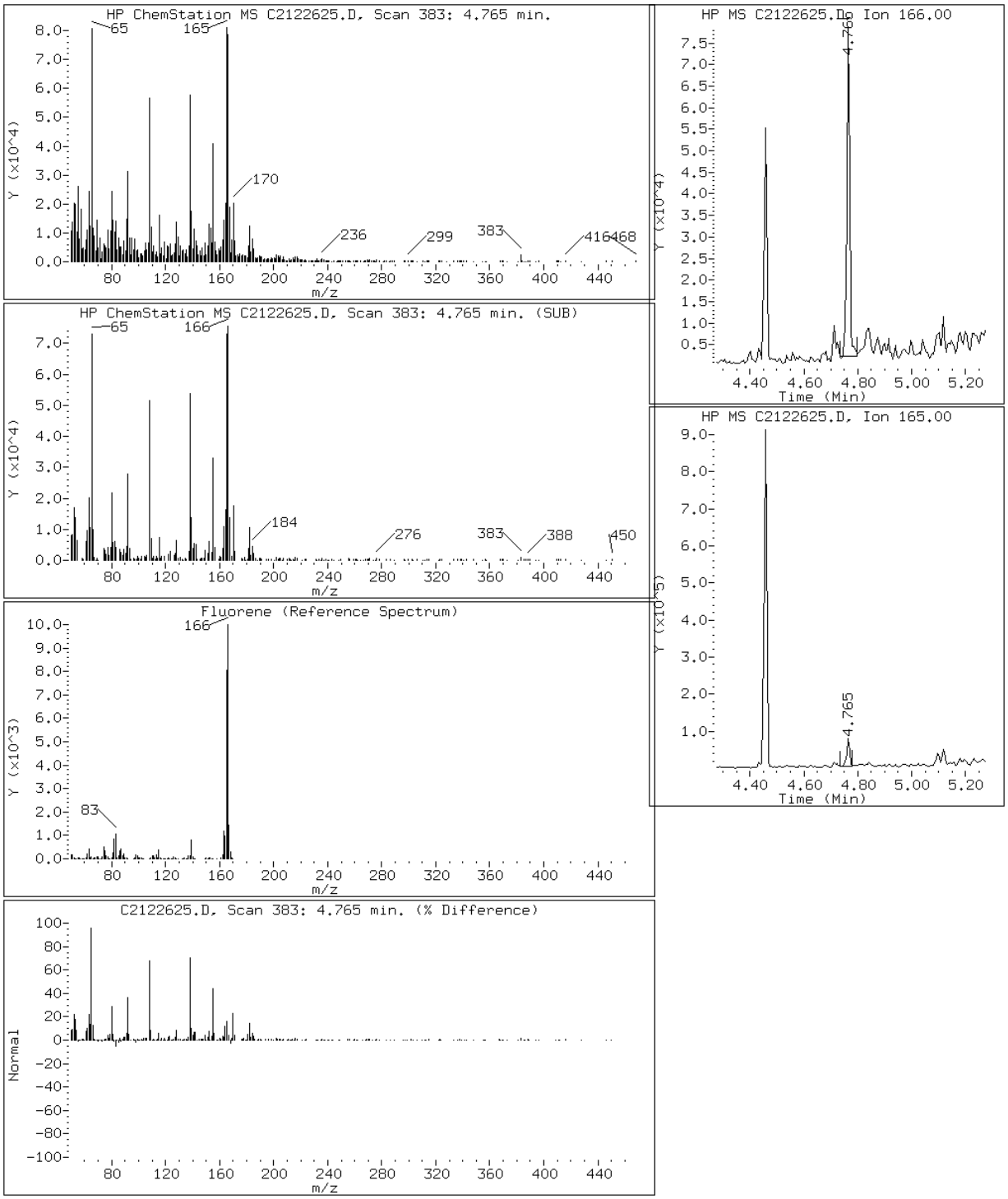
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

8 Fluorene



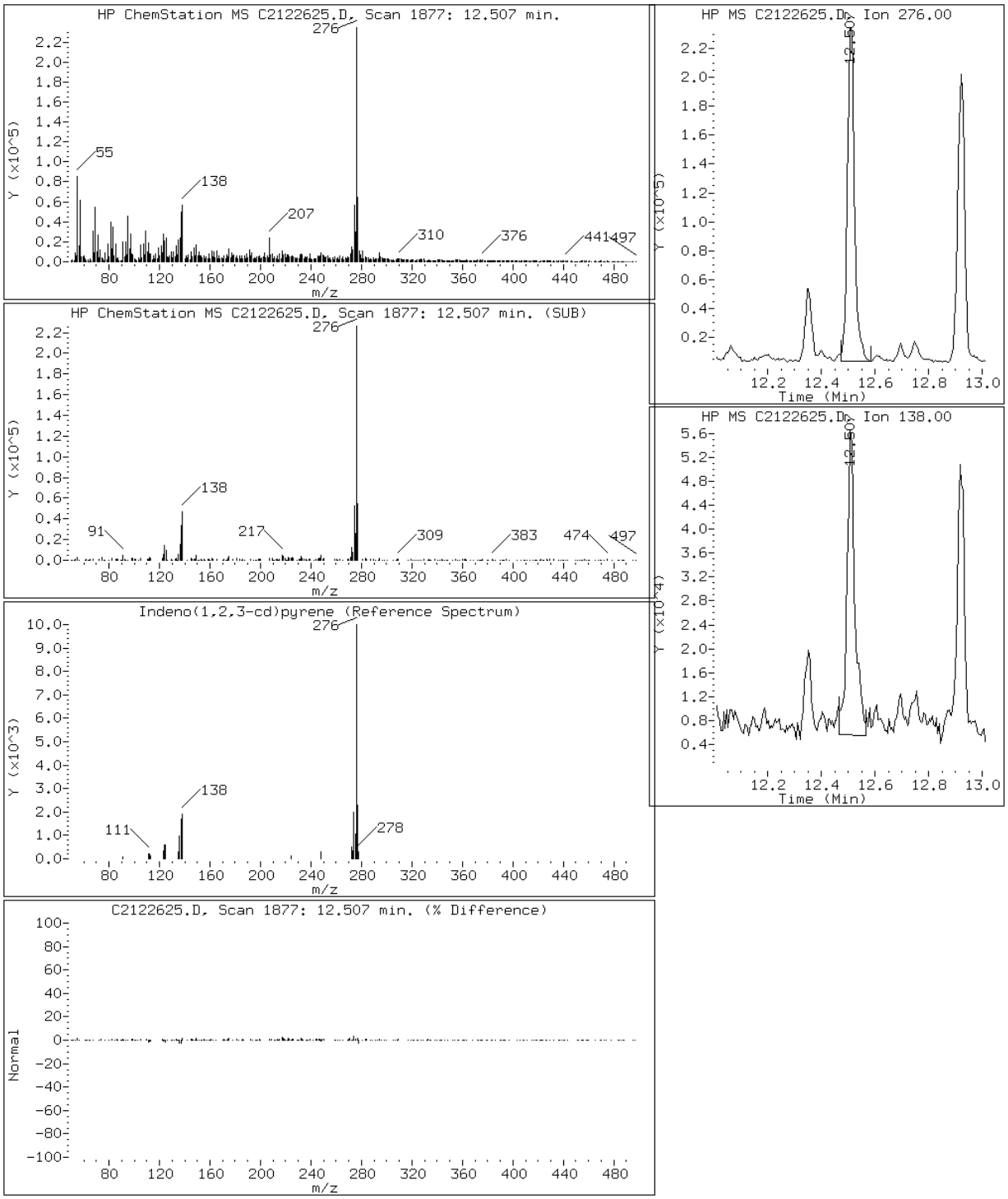
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

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



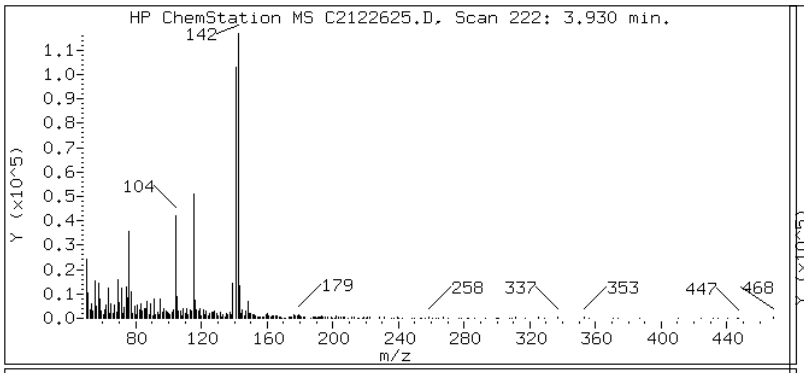
Data File: C2122625.D

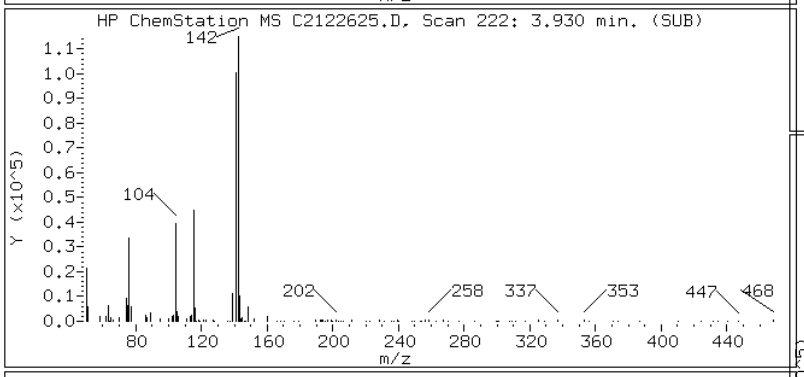
Date: 26-DEC-2012 20:40

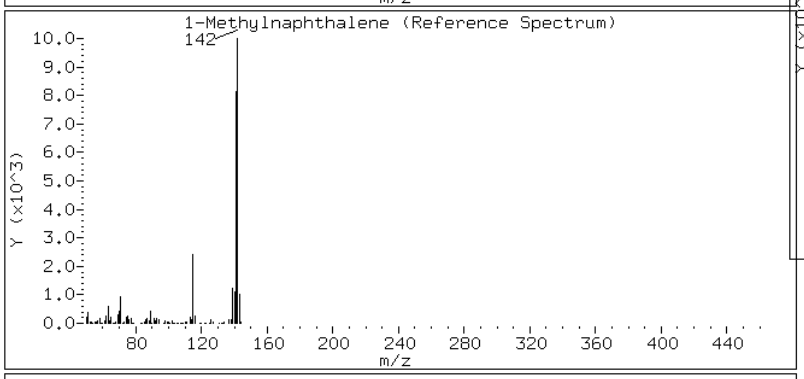
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

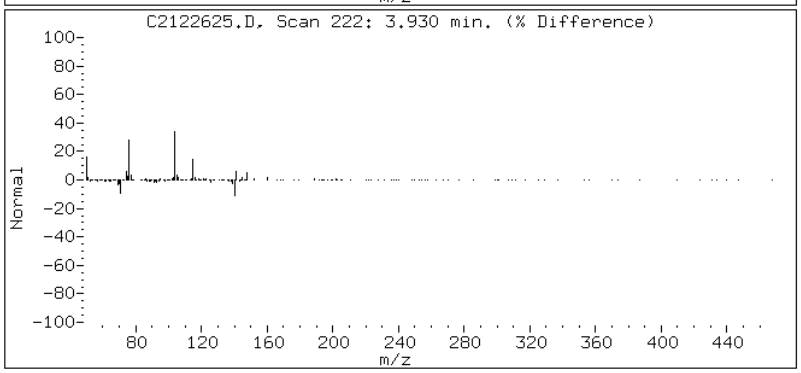
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

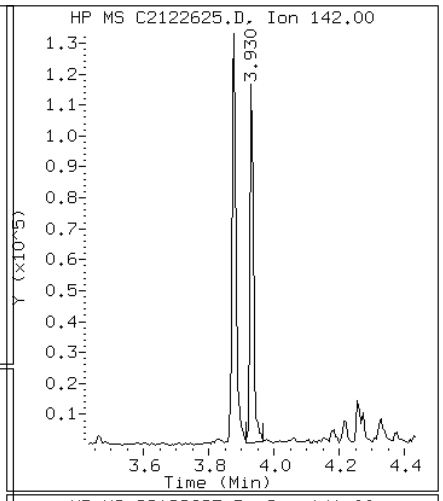
4 1-Methylnaphthalene

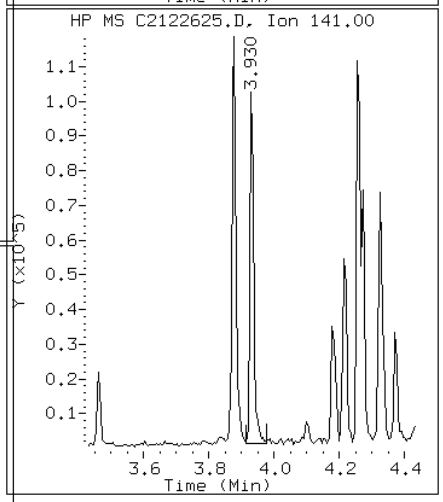












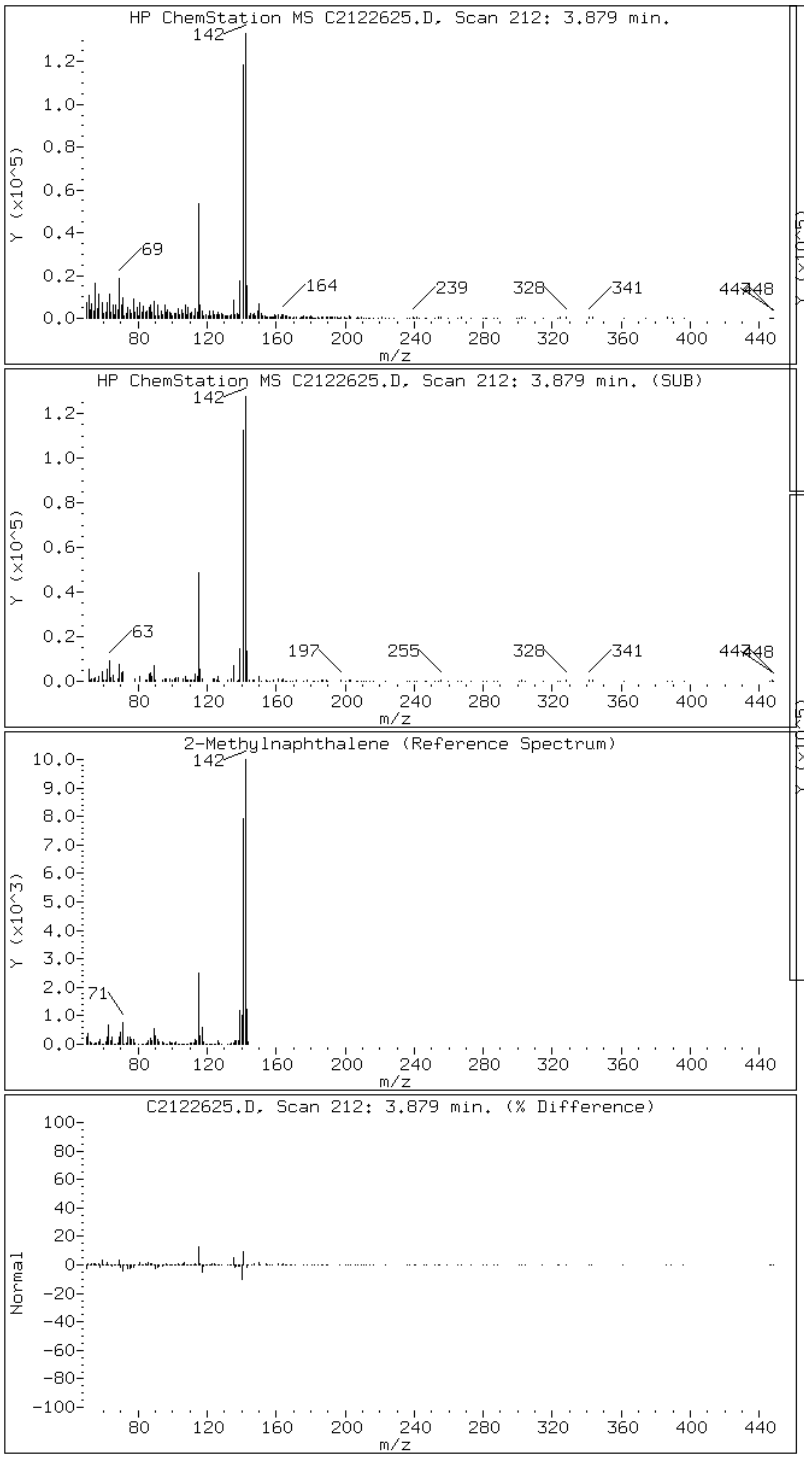
Data File: C2122625.D

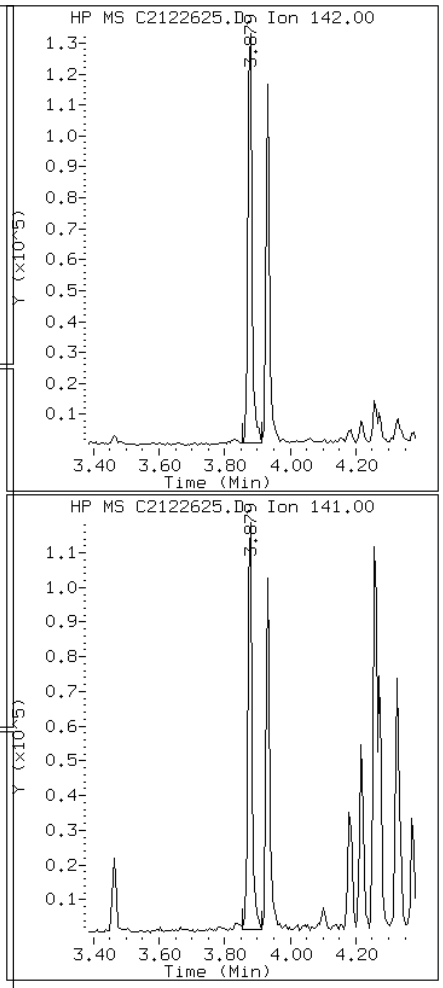
Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene





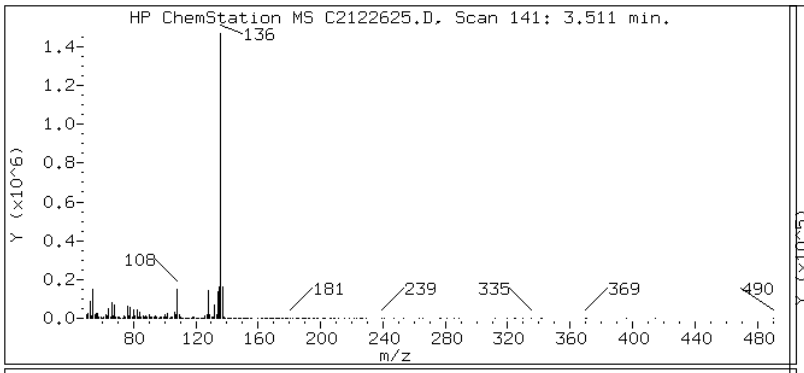
Data File: C2122625.D

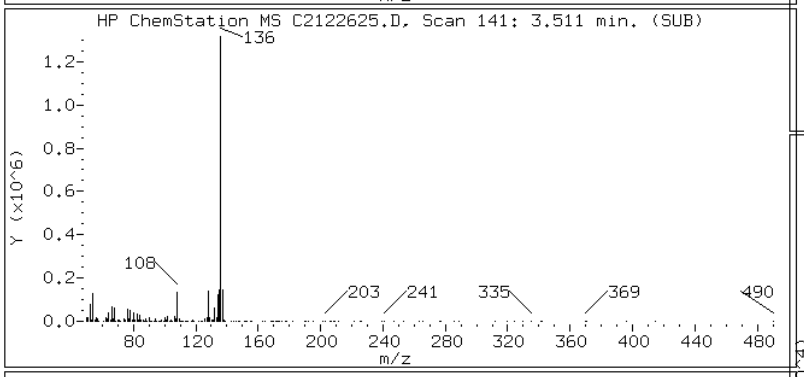
Date: 26-DEC-2012 20:40

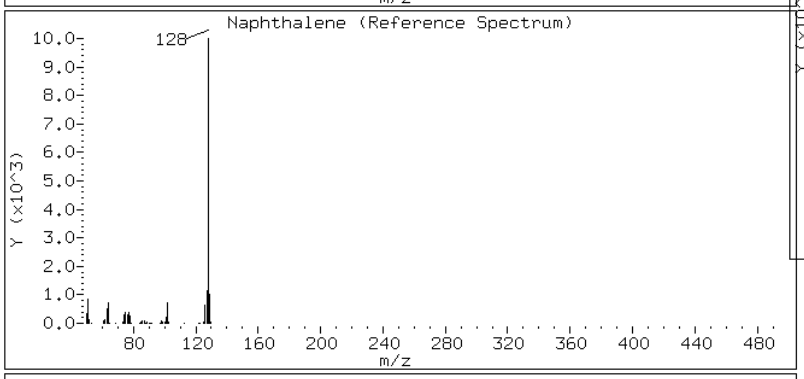
Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

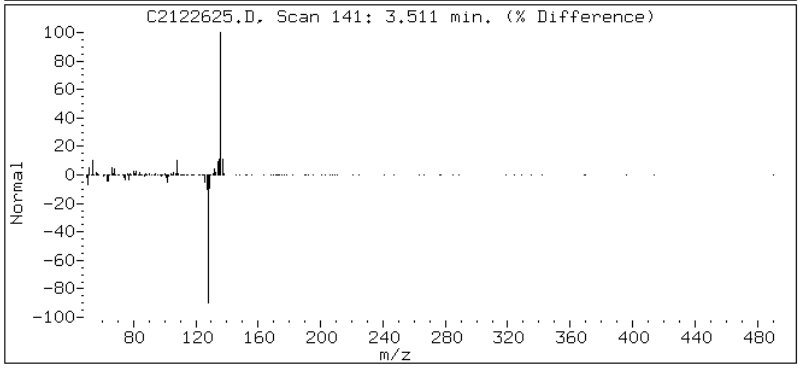
Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

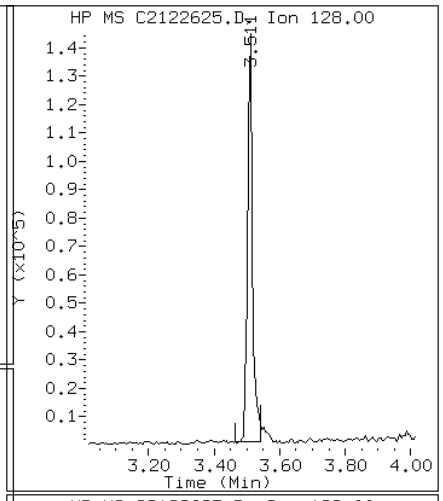
2 Naphthalene

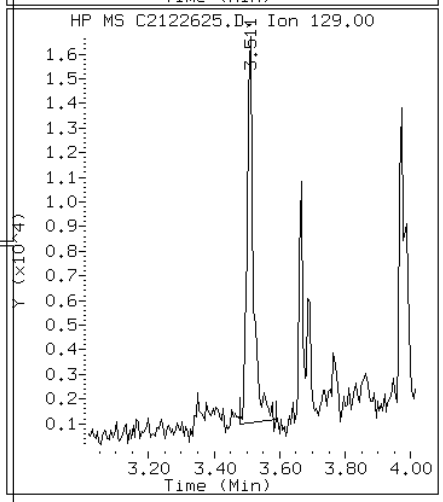












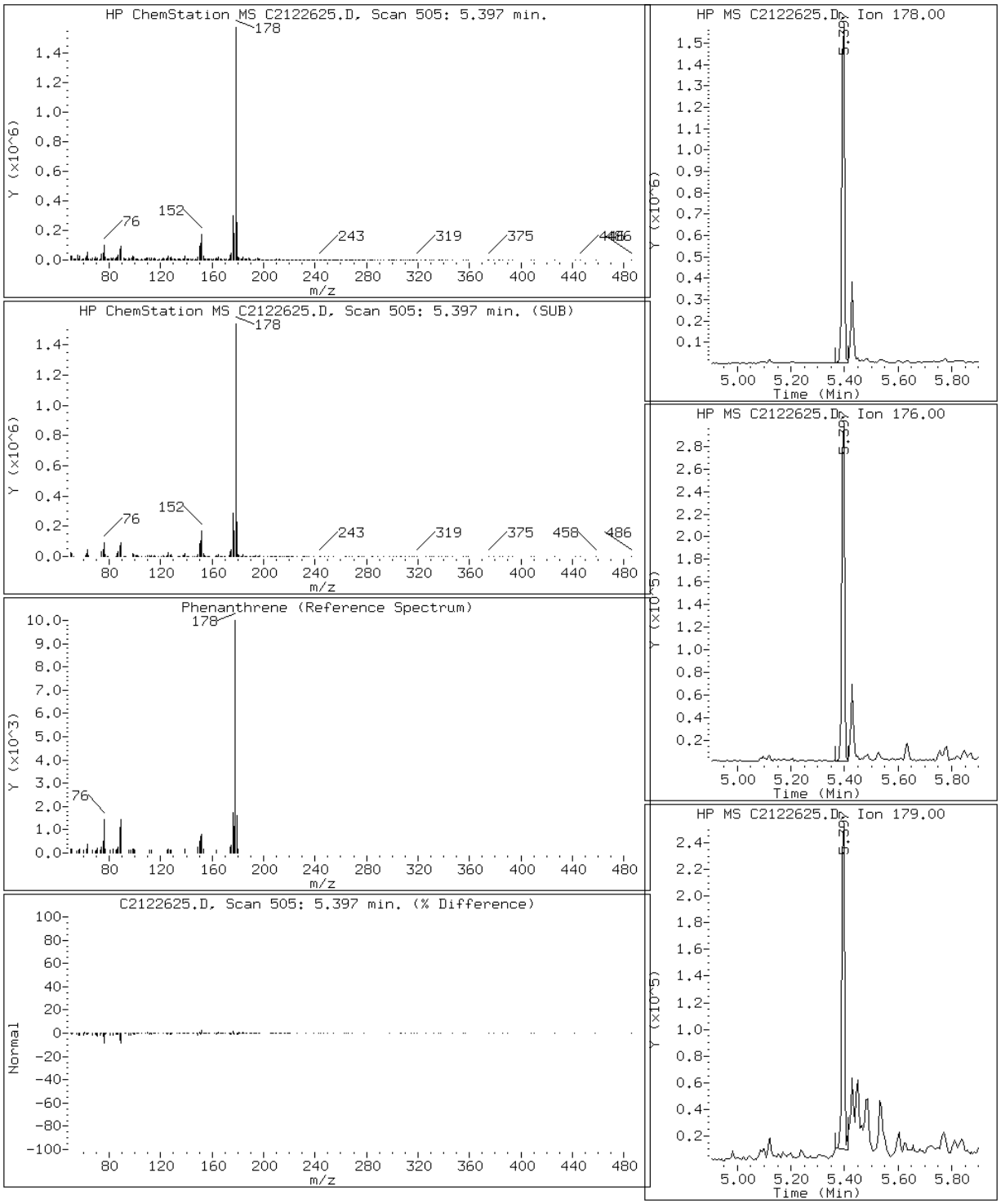
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



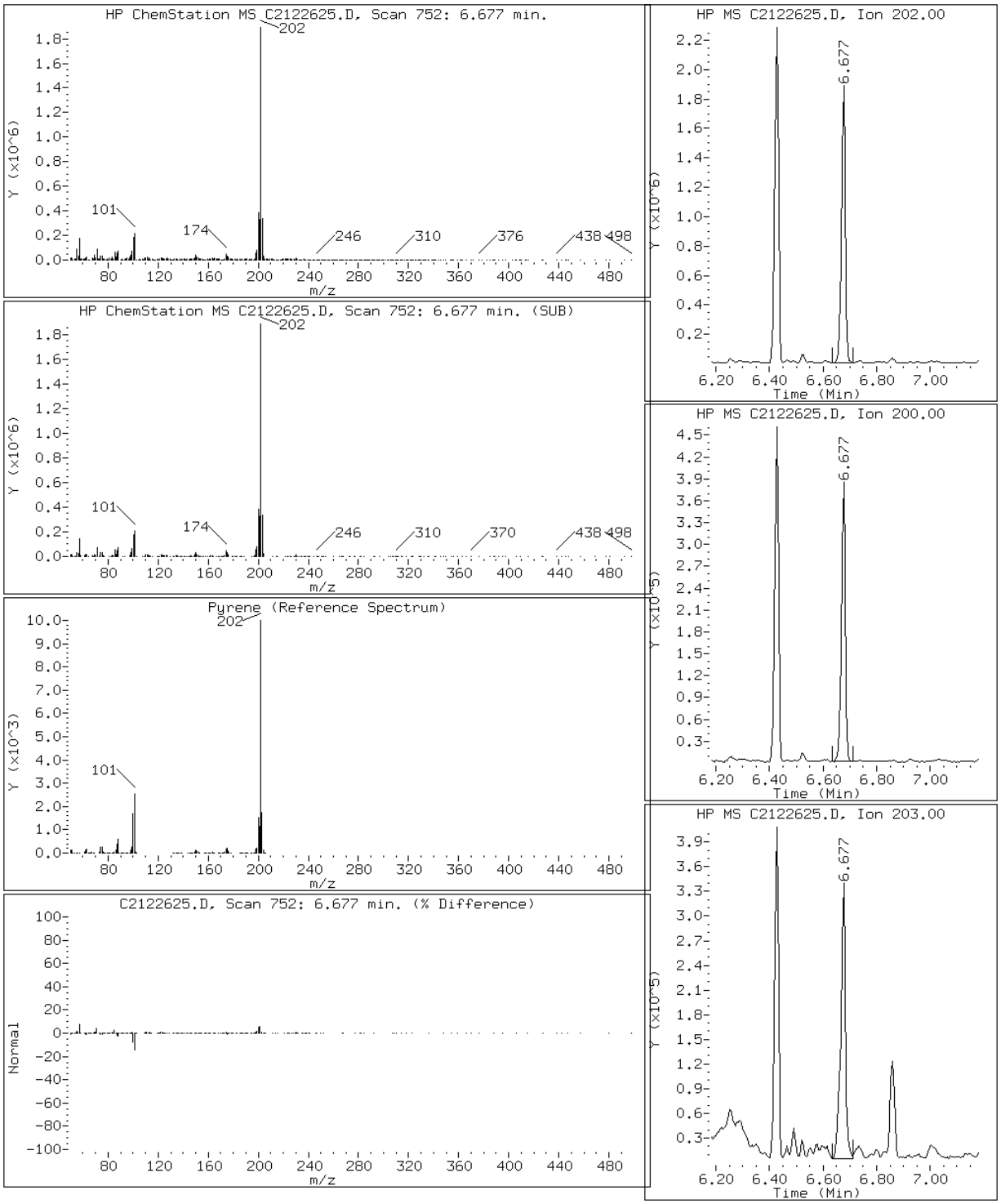
Data File: C2122625.D

Date: 26-DEC-2012 20:40

Client ID: HP0294A-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-27-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122625.D
Inj. Date and Time: 26-DEC-2012 20:40
Instrument ID: TSMC5973.i
Client ID: HP0294A-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

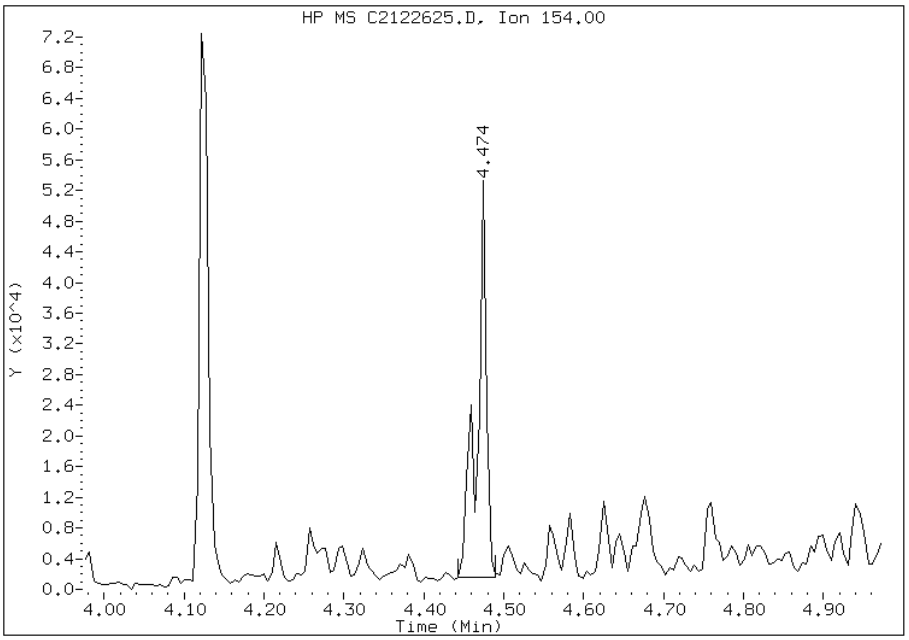
Processing Integration Results

RT: 4.47

Response: 44643

Amount: 0

Conc: 12



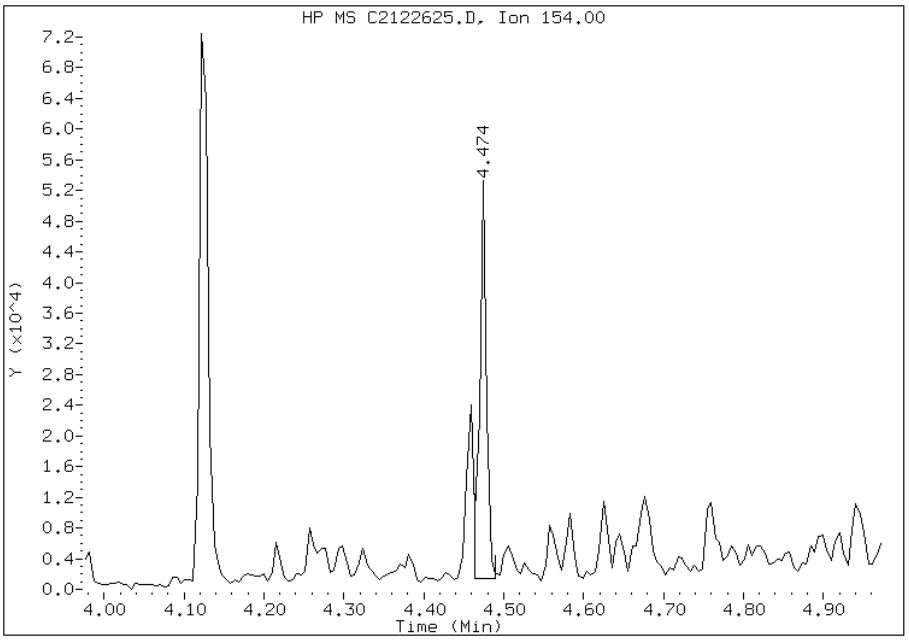
Manual Integration Results

RT: 4.47

Response: 32892

Amount: 0

Conc: 9



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:31
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122625.D
Inj. Date and Time: 26-DEC-2012 20:40
Instrument ID: TSMC5973.i
Client ID: HP0294A-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

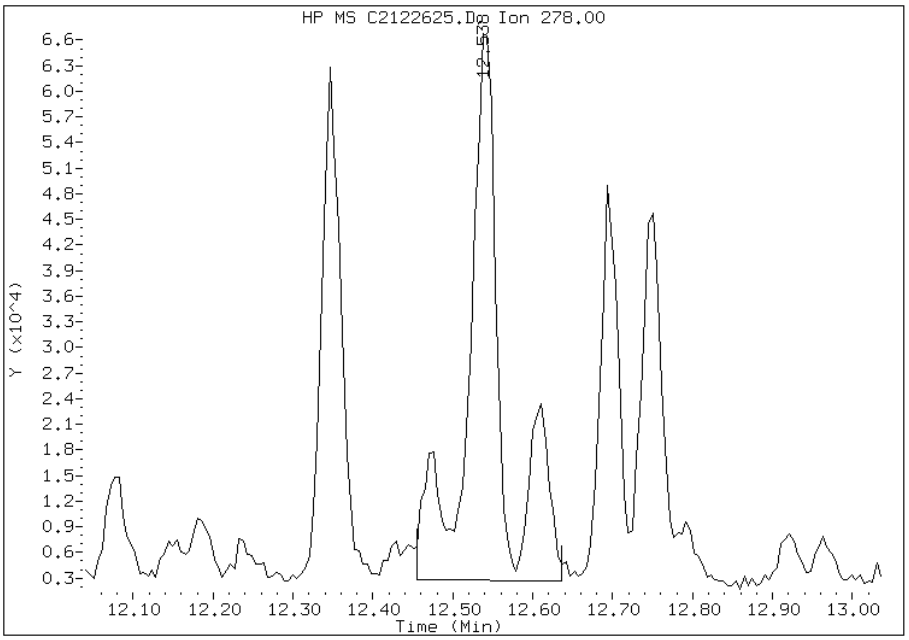
Processing Integration Results

RT: 12.54

Response: 192694

Amount: 1

Conc: 29



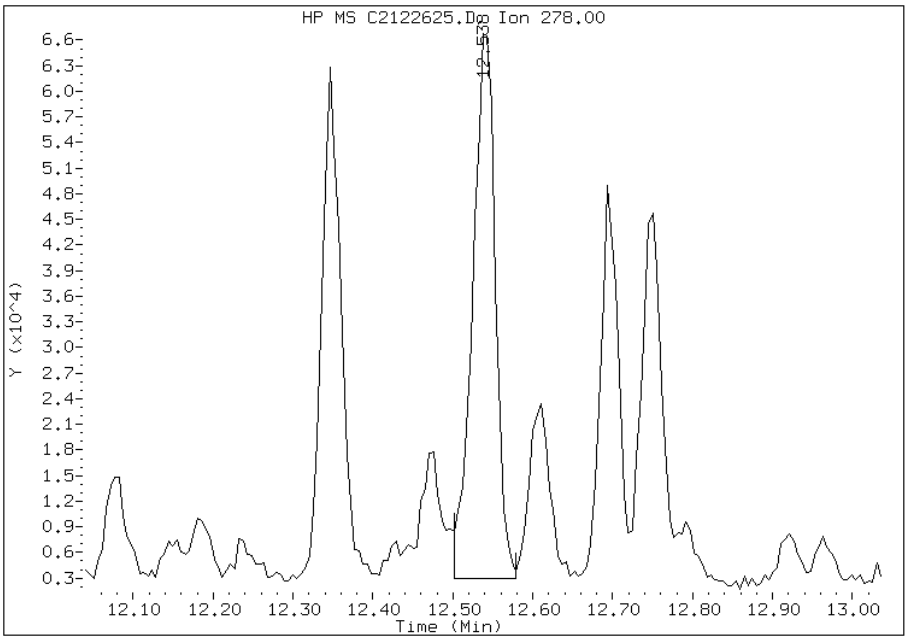
Manual Integration Results

RT: 12.54

Response: 128721

Amount: 1

Conc: 19



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:31
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: HP0294B-CS-SP | Lab Sample ID: 680-85785-28

Matrix: Solid | Lab File ID: C2122626.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:04

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.44(g) | Date Analyzed: 12/26/2012 20:59

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 29.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3.1	J	9.4	0.81
208-96-8	Acenaphthylene	12		9.4	0.74
120-12-7	Anthracene	21		9.4	0.92
56-55-3	Benzo[a]anthracene	61		9.4	0.87
50-32-8	Benzo[a]pyrene	75		9.4	0.95
205-99-2	Benzo[b]fluoranthene	140		9.4	1.3
191-24-2	Benzo[g,h,i]perylene	32		9.4	1.5
207-08-9	Benzo[k]fluoranthene	49		9.4	0.90
218-01-9	Chrysene	100		9.4	1.0
53-70-3	Dibenz(a,h)anthracene	12		9.4	0.91
206-44-0	Fluoranthene	120		9.4	0.84
86-73-7	Fluorene	5.3	J	9.4	0.73
193-39-5	Indeno[1,2,3-cd]pyrene	37		9.4	1.5
90-12-0	1-Methylnaphthalene	16		9.4	0.74
91-57-6	2-Methylnaphthalene	22		9.4	0.73
91-20-3	Naphthalene	26		9.4	0.73
85-01-8	Phenanthrene	79		9.4	0.62
129-00-0	Pyrene	87		9.4	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	64		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122626.D
Lab Smp Id: 680-85785-A-28-A Client Smp ID: HP0294B-CS-SP
Inj Date : 26-DEC-2012 20:59
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-28-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.440	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.941)	132377	1.80996	59	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	6797078	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	92804	0.55870	18	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	58605	0.46490	15	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	43304	0.35021	12	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3747162	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	51505	0.25579	8.4	
7 Acenaphthene	154	4.474	4.479	(1.003)	7000	0.06645	2.2(aQM)	SP
8 Fluorene	166	4.764	4.774	(1.069)	15972	0.11357	3.7(a)	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6066082	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	289692	1.69143	56	
11 Anthracene	178	5.427	5.438	(1.009)	83615	0.44782	15	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	285756	2.57889	85	
13 Fluoranthene	202	6.422	6.433	(1.194)	587804	2.59814	85	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	7257781	40.0000		
15 Pyrene	202	6.671	6.682	(0.800)	506027	1.86102	61	
16 Benzo(a)anthracene	228	8.309	8.309	(0.997)	334274	1.31125	43	
17 Chrysene	228	8.361	8.371	(1.003)	478593	2.21702	73	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	5970121	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.937)	588951	3.09672	100	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.941)	194417	1.04364	34	
21 Benzo(a)pyrene	252	10.651	10.656	(0.988)	272765	1.59987	52	
22 Indeno(1,2,3-cd)pyrene	276	12.506	12.512	(1.160)	141945	0.78726	26	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.163)	46397	0.25253	8.3(QM)	BAS
24 Benzo(g,h,i)perylene	276	12.916	12.921	(1.198)	125968	0.69438	23	

QC Flag Legend

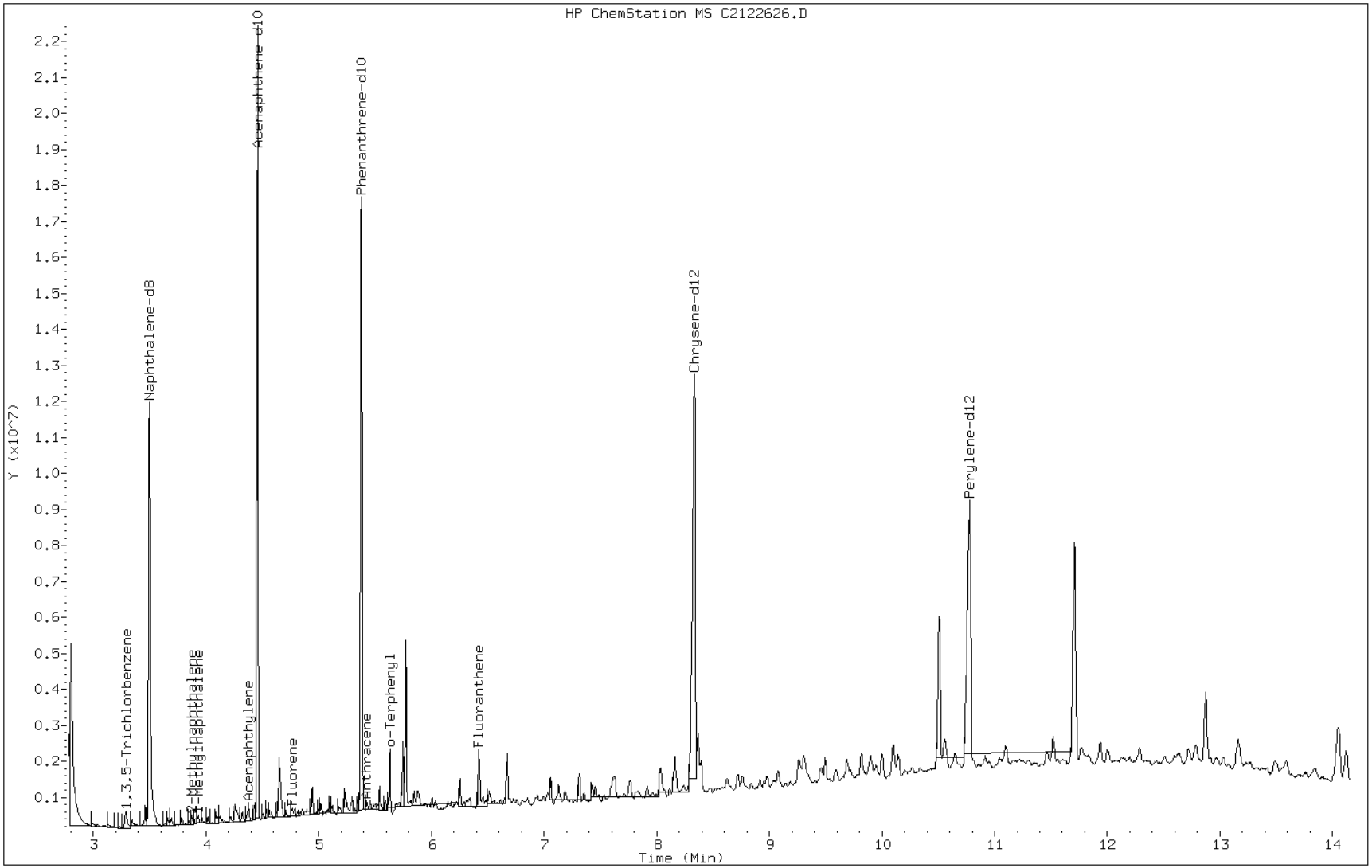
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122626.D

Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW



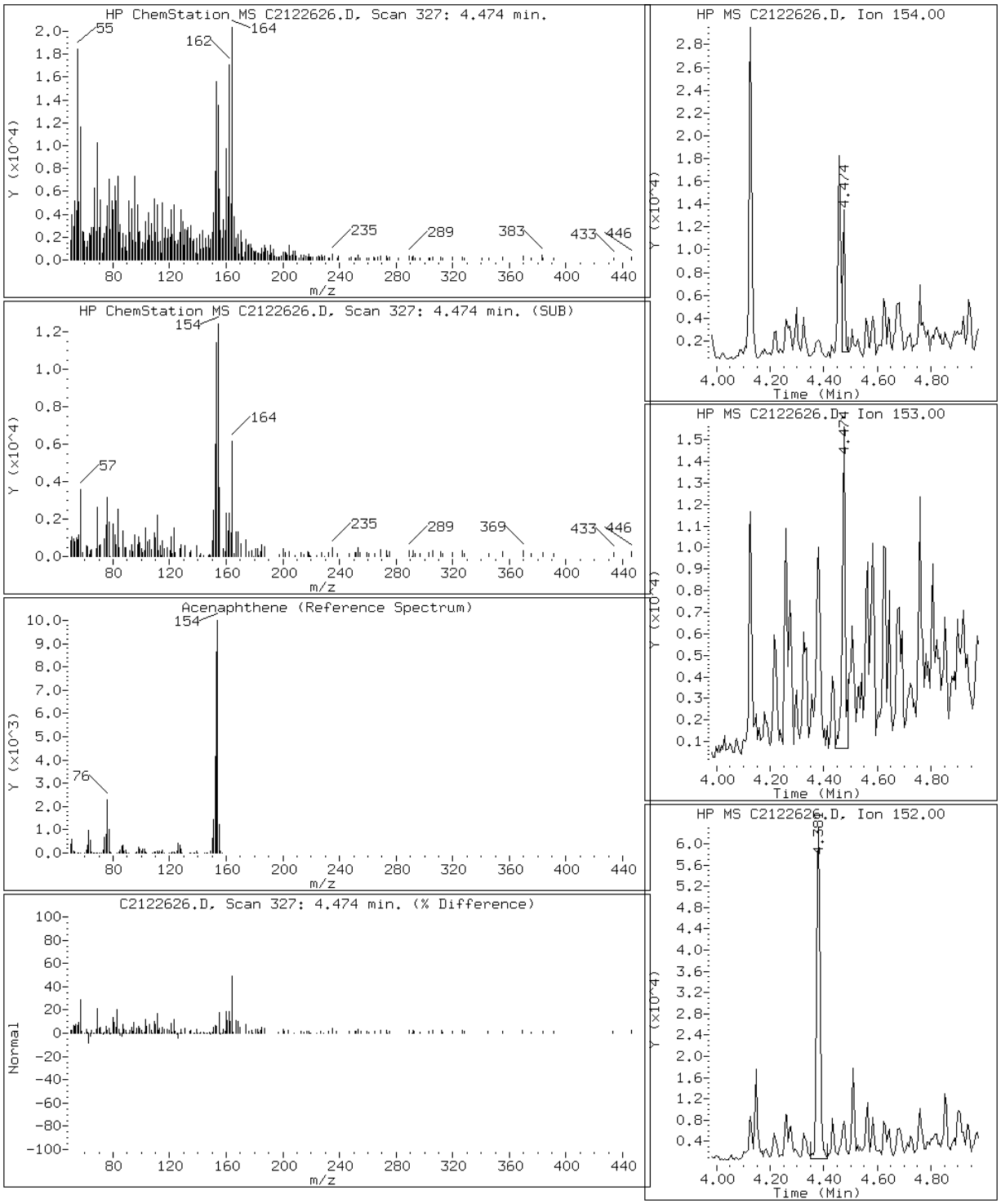
Data File: C2122626.D

Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



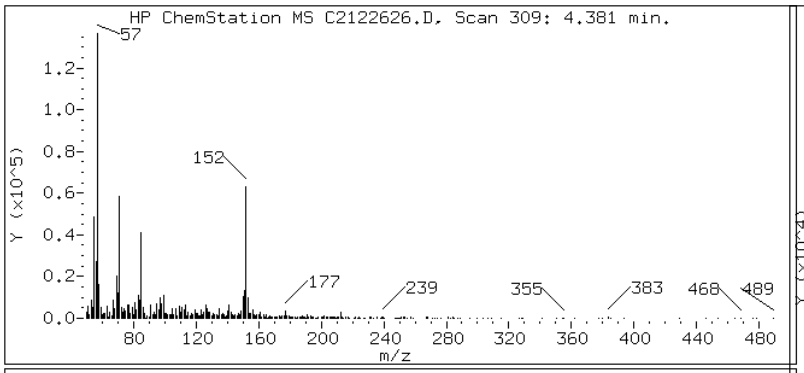
Data File: C2122626.D

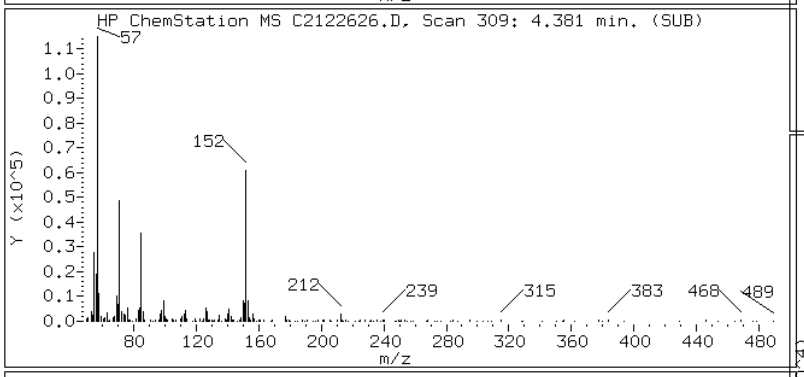
Date: 26-DEC-2012 20:59

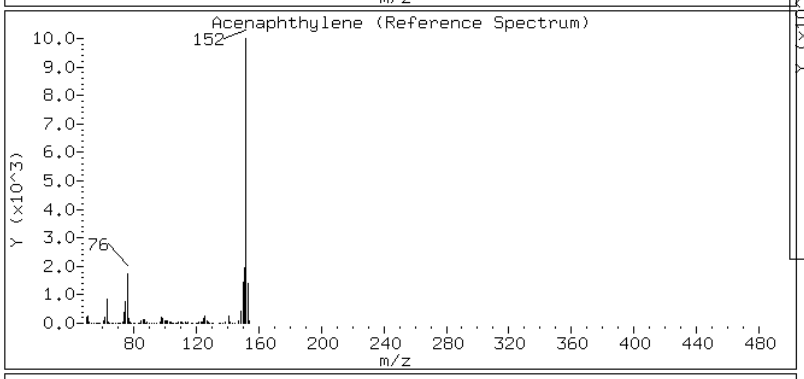
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

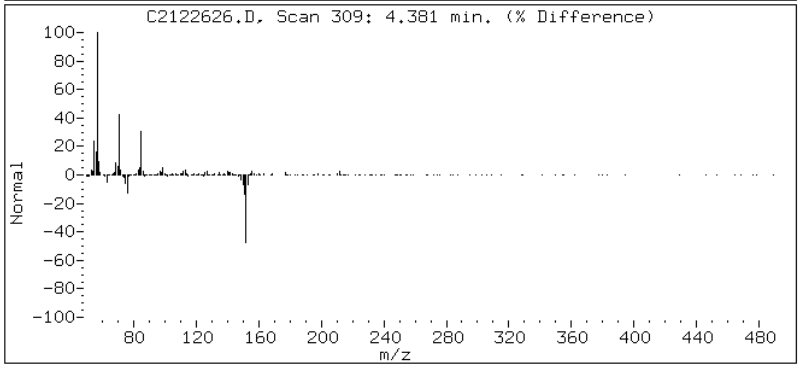
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

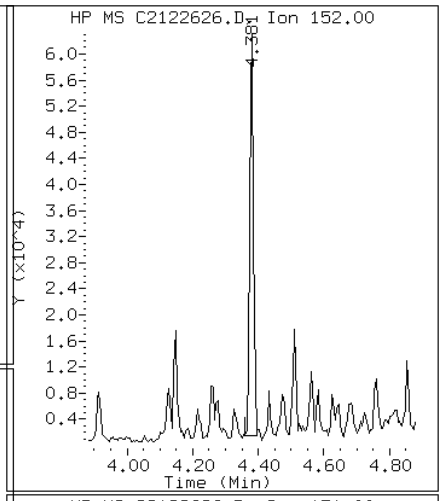
6 Acenaphthylene

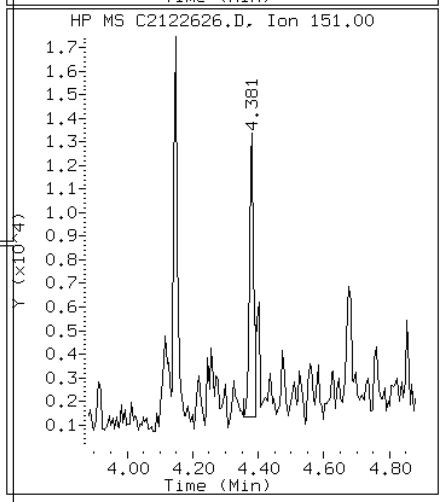












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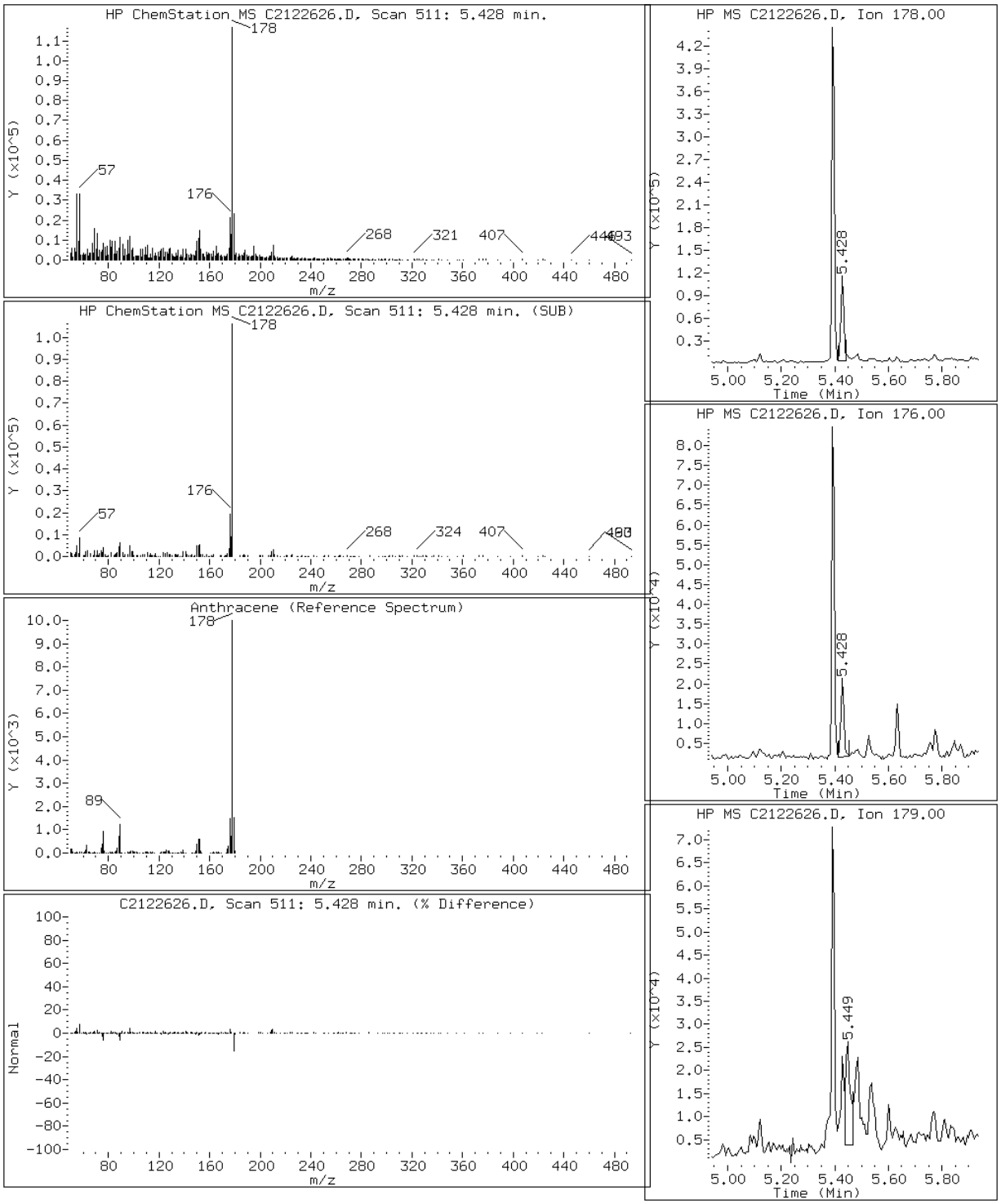
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

11 Anthracene



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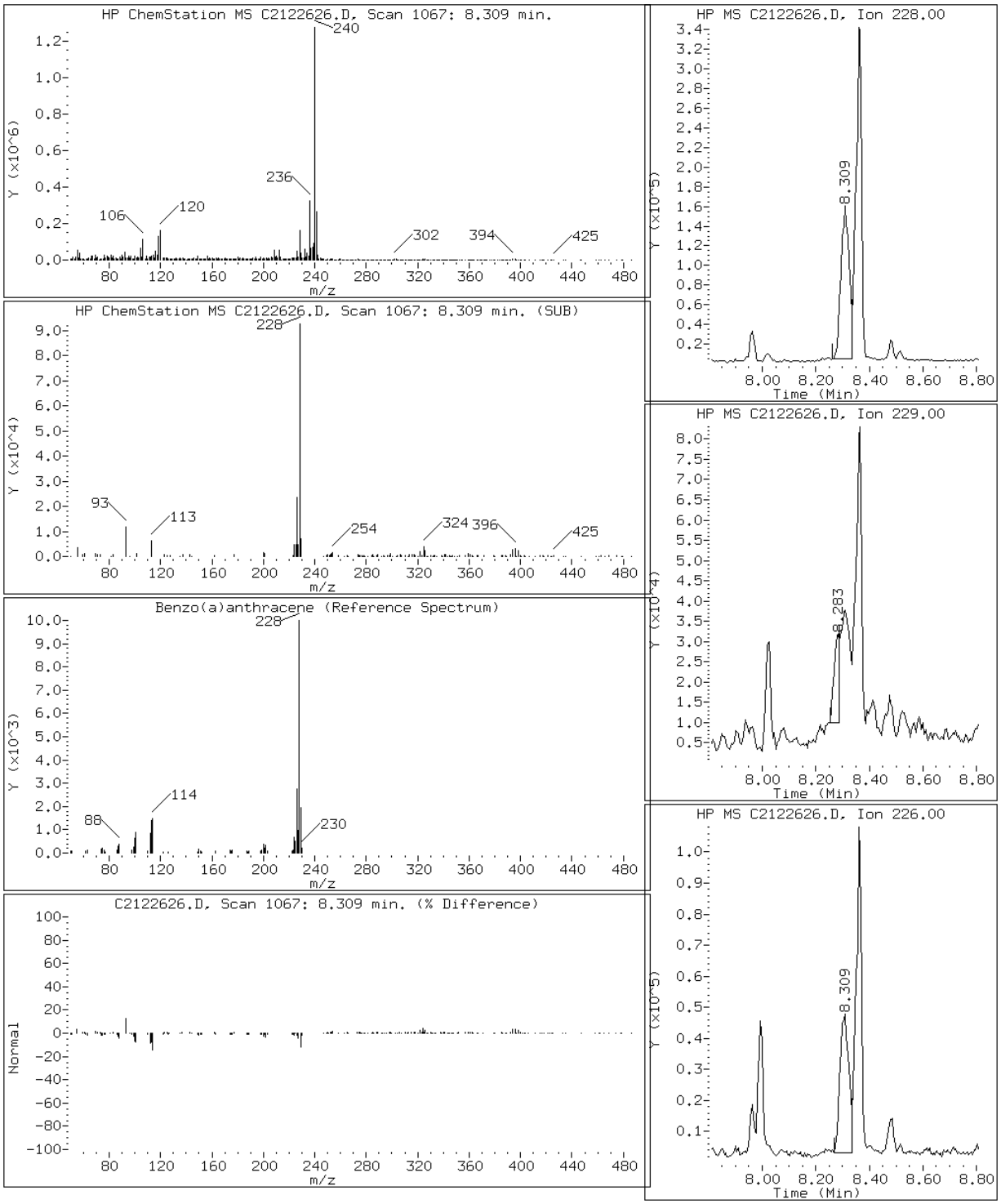
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



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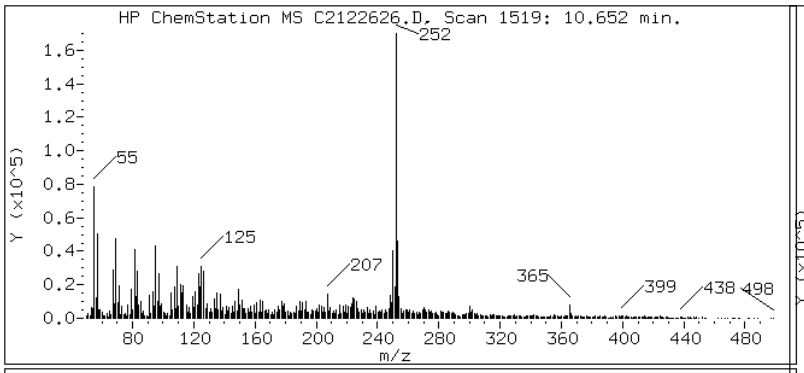
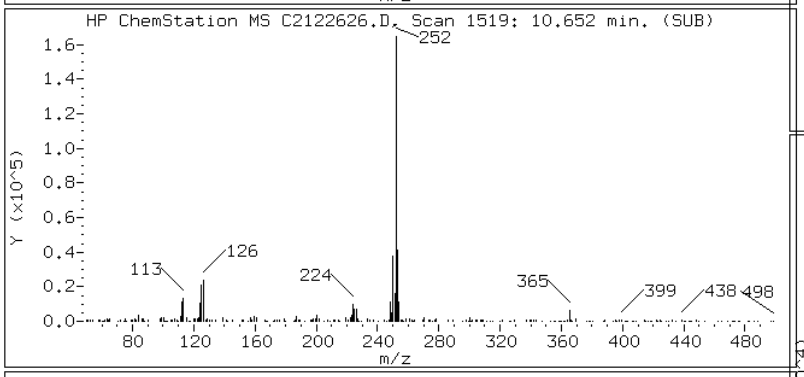
Date: 26-DEC-2012 20:59

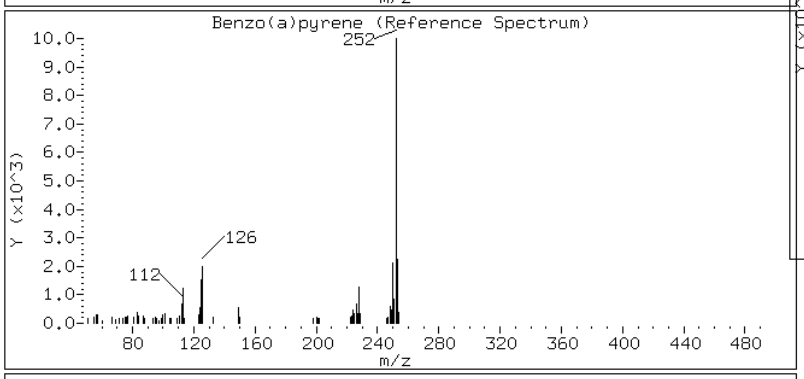
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

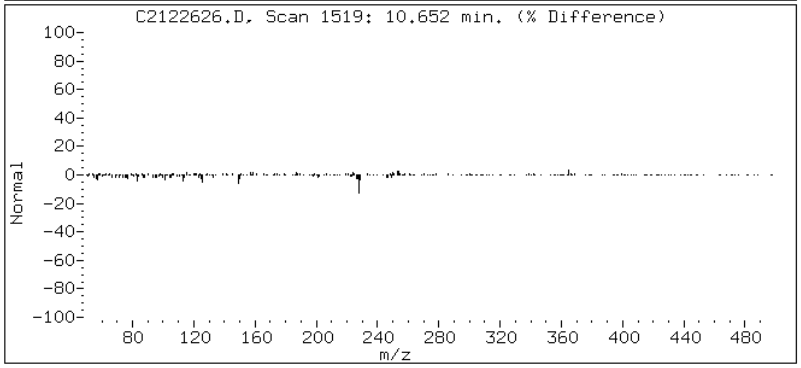
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

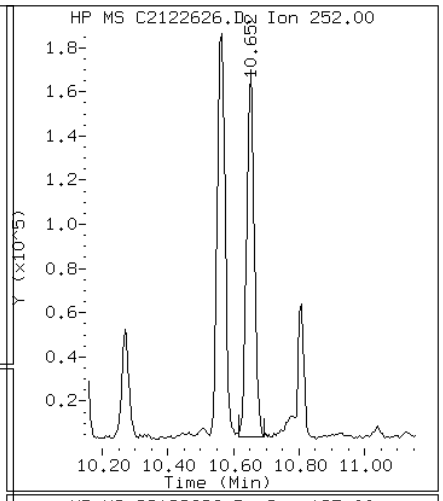
21 Benzo(a)pyrene

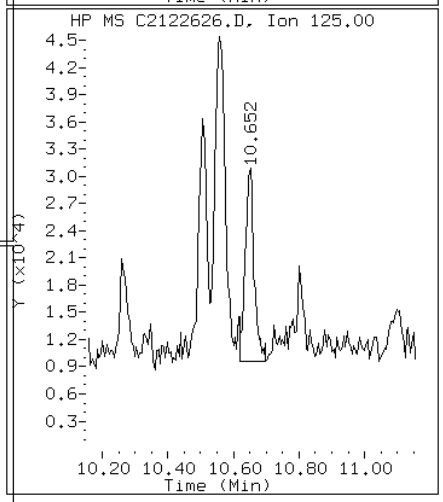












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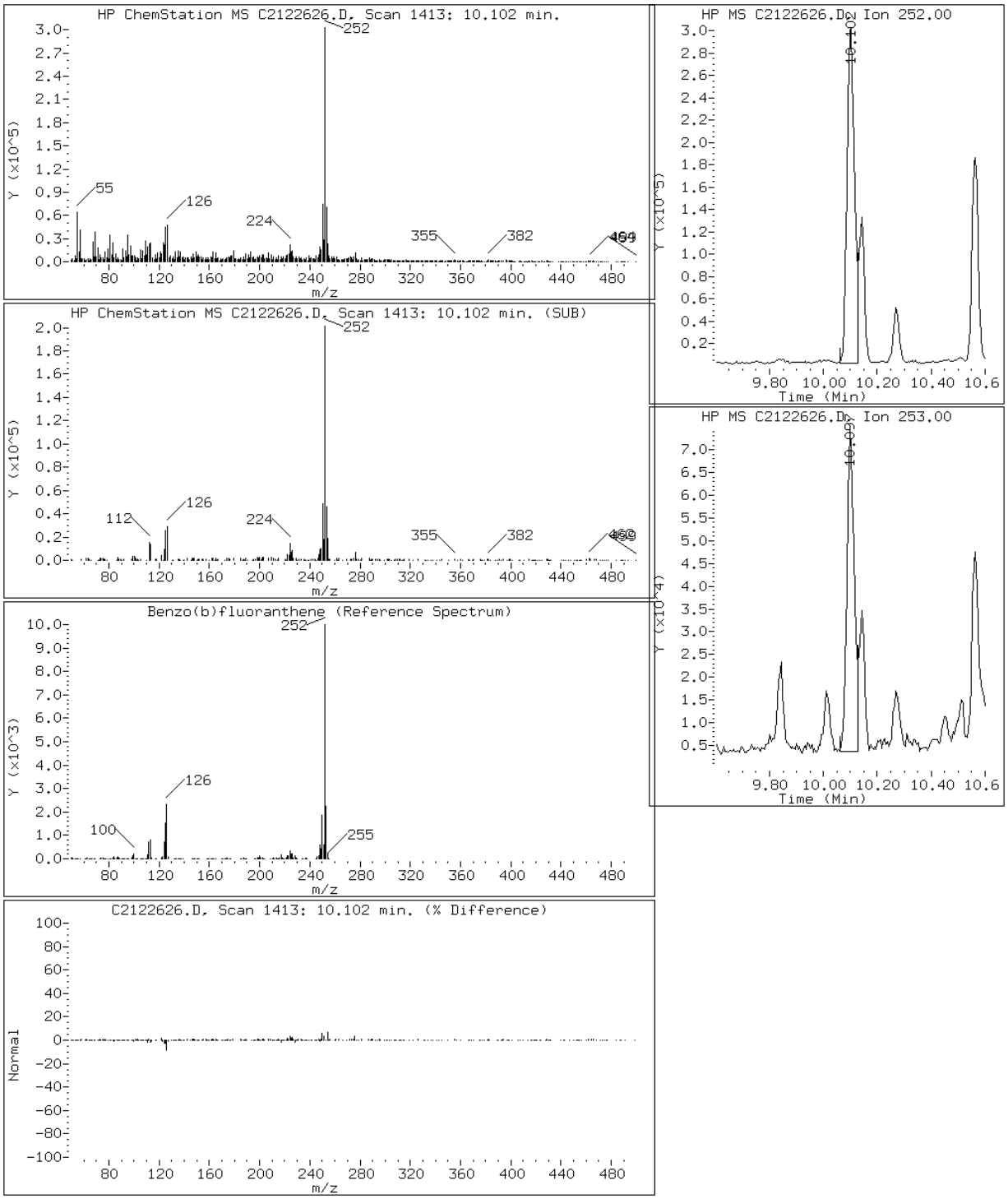
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

19 Benzo(b)fluoranthene



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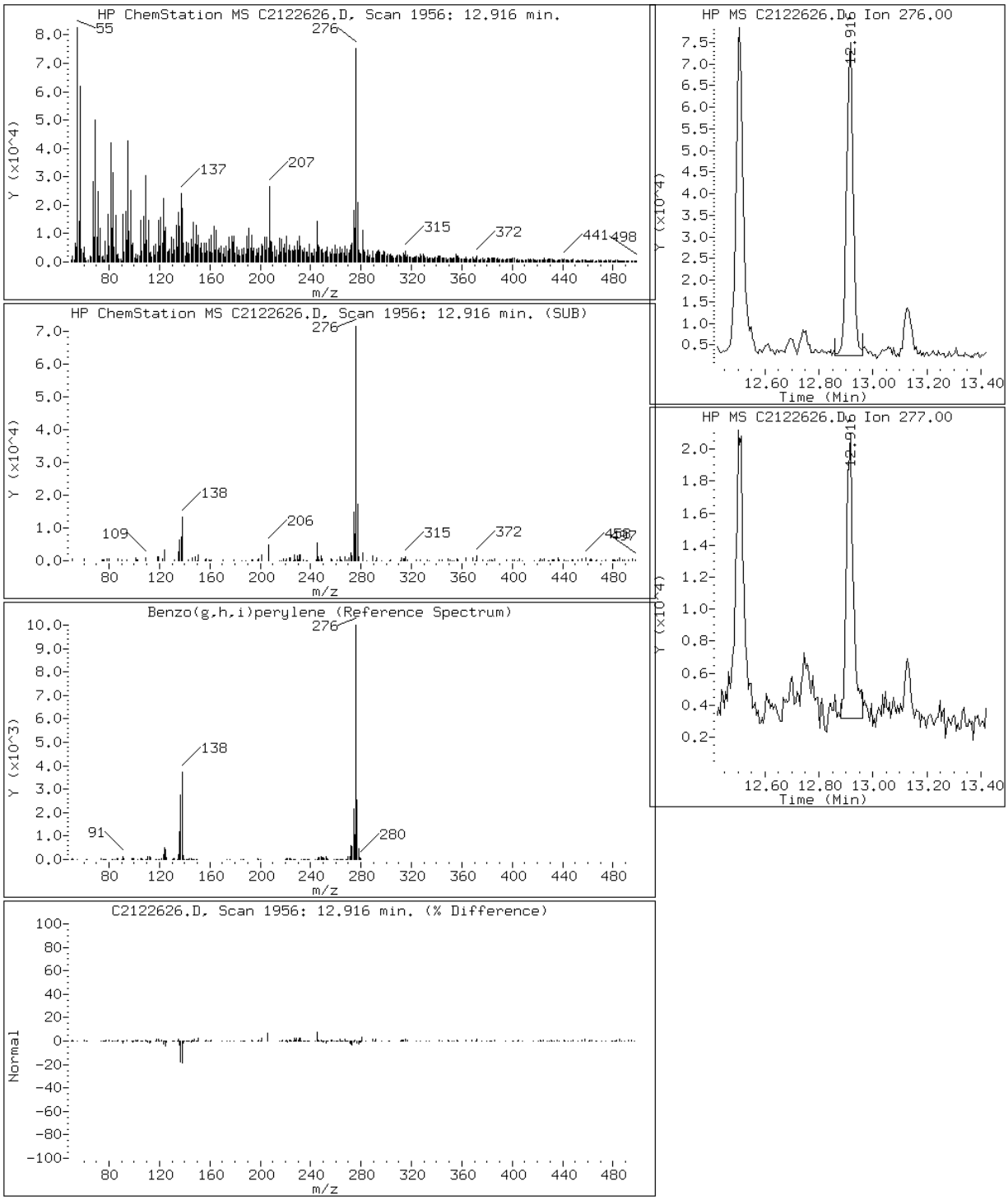
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



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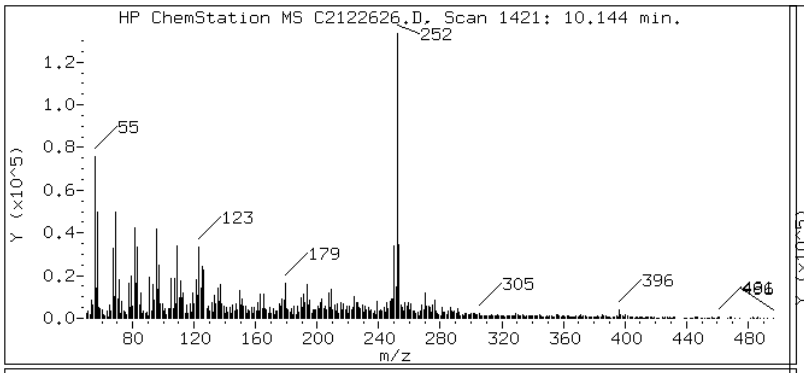
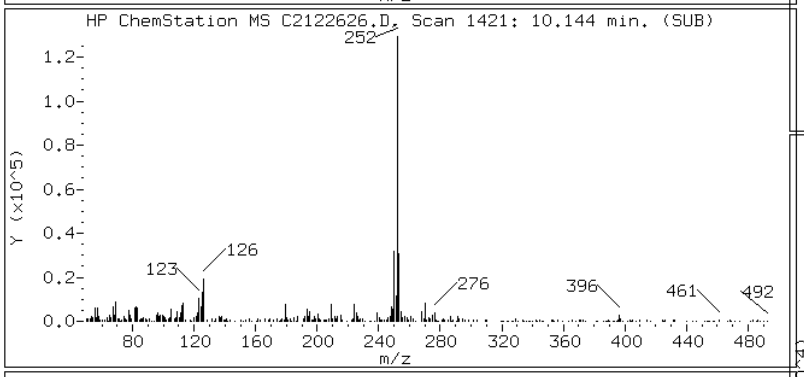
Date: 26-DEC-2012 20:59

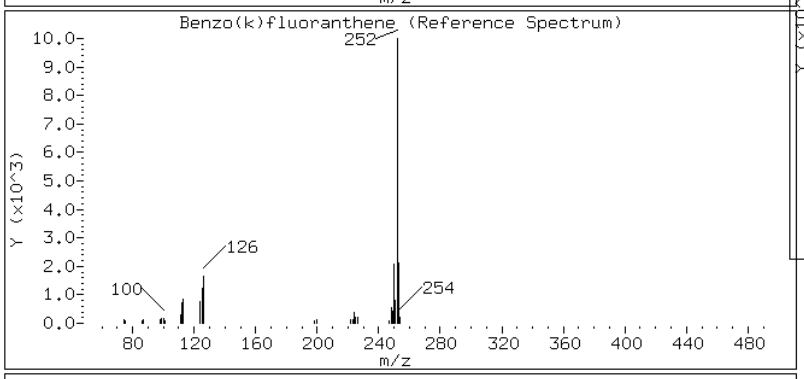
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

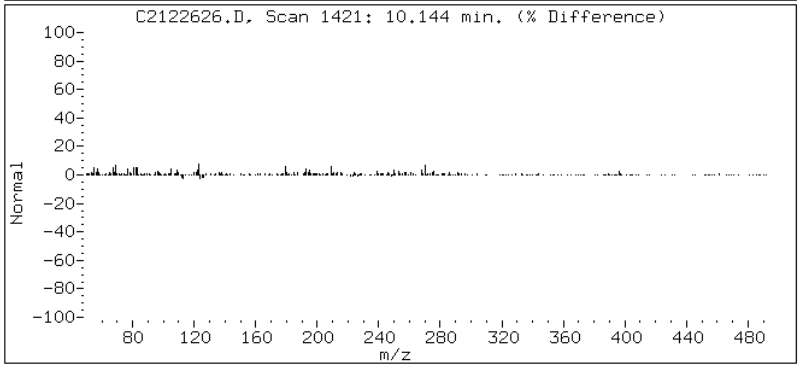
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

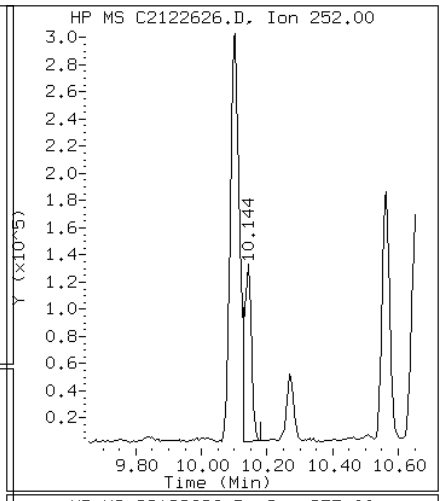
20 Benzo(k)fluoranthene

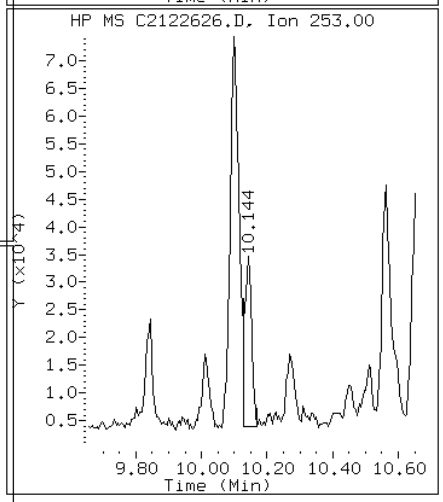












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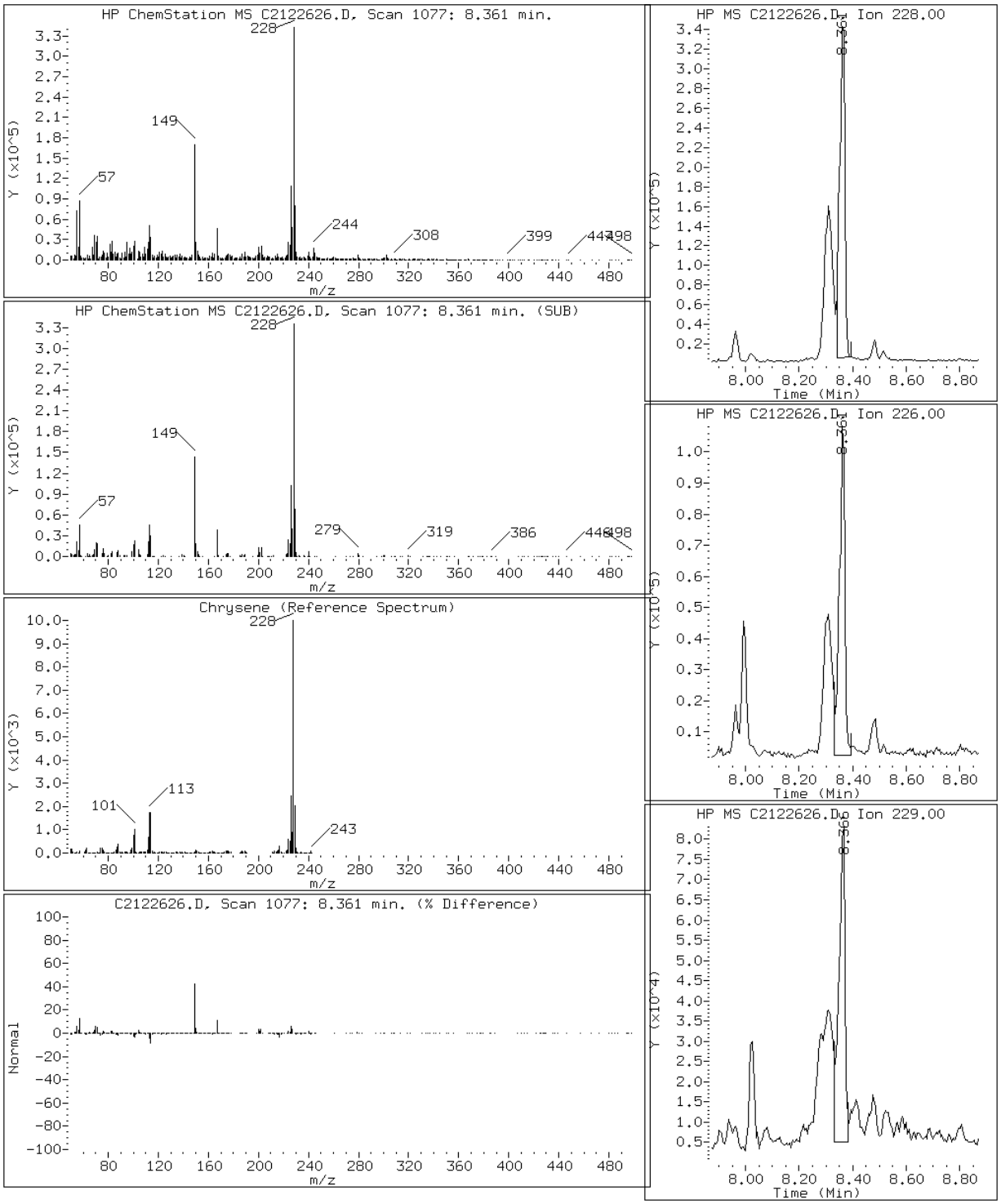
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

17 Chrysene



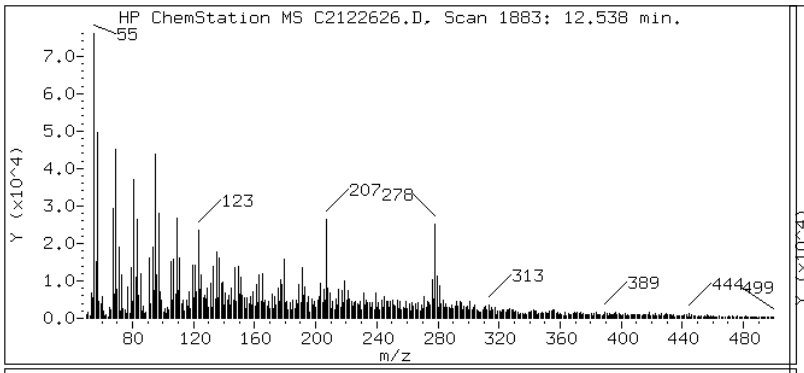
Data File: C2122626.D

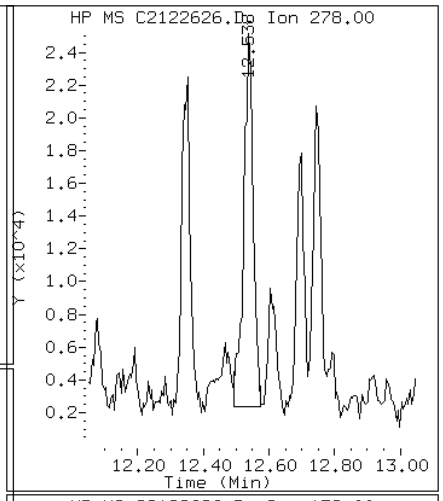
Date: 26-DEC-2012 20:59

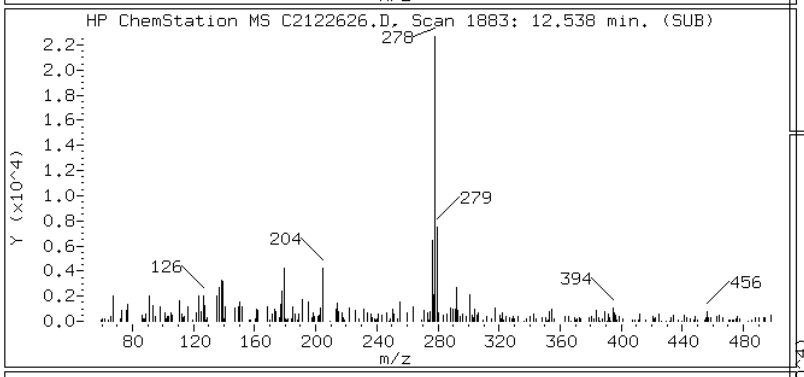
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

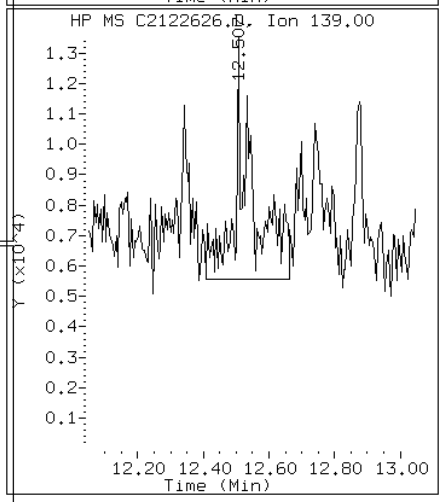
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

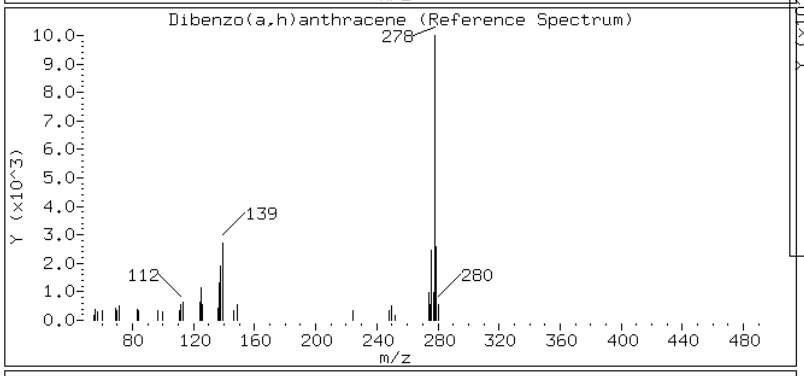
23 Dibenzo(a,h)anthracene

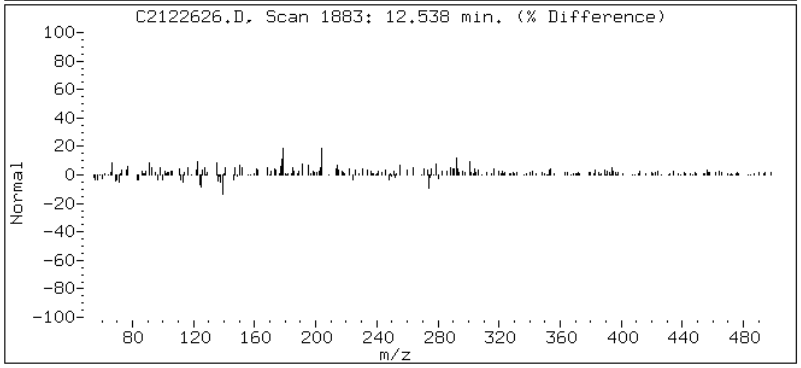












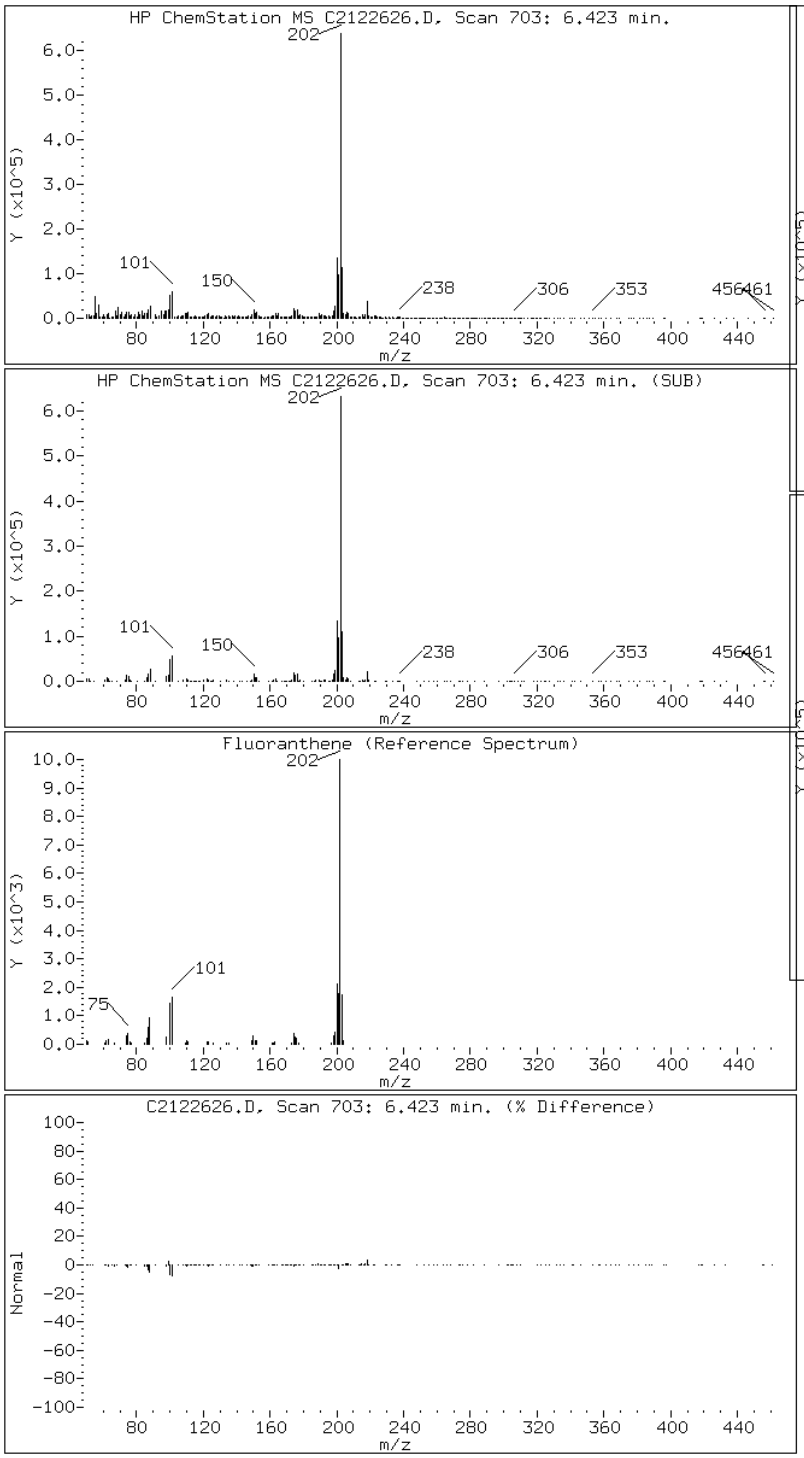
Data File: C2122626.D

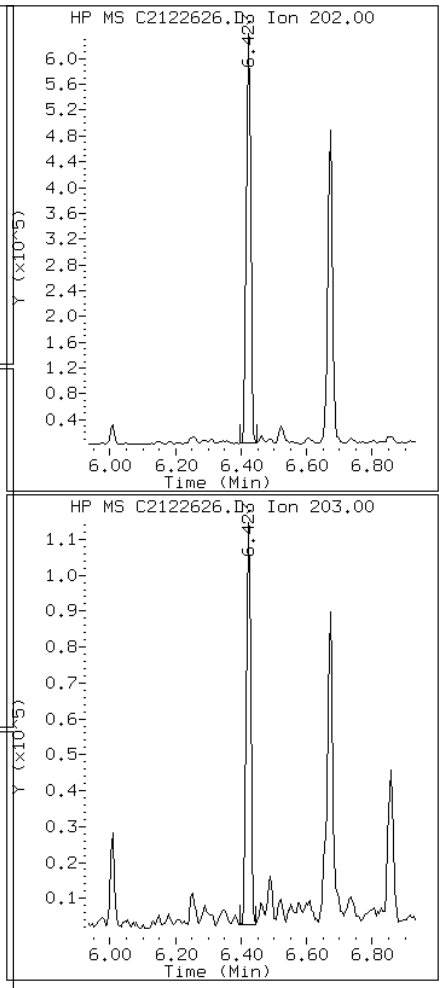
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

13 Fluoranthene





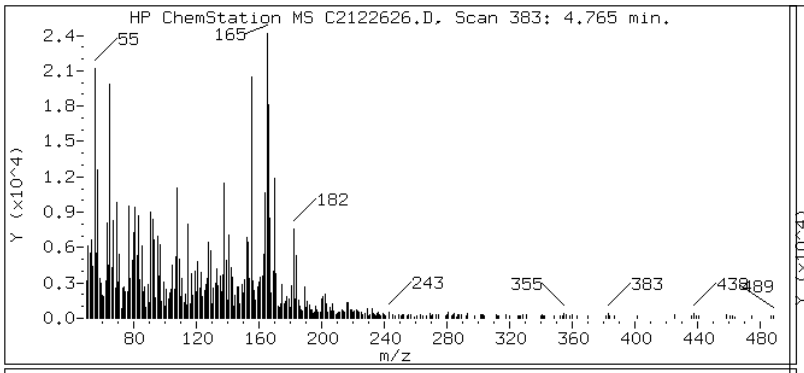
Data File: C2122626.D

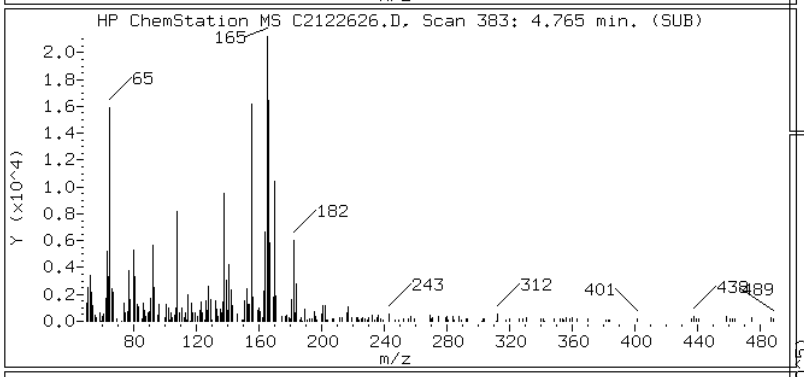
Date: 26-DEC-2012 20:59

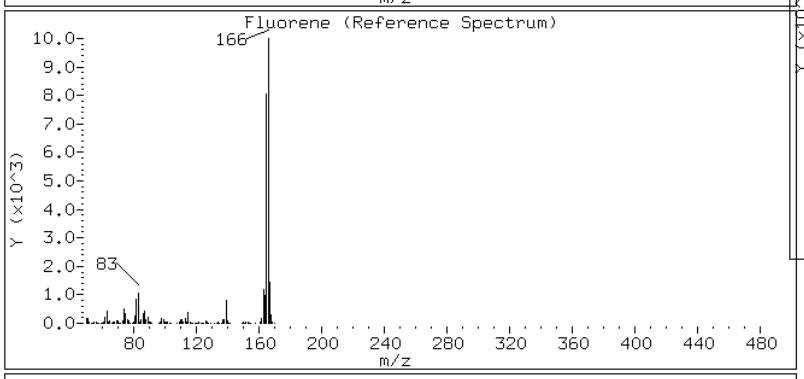
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

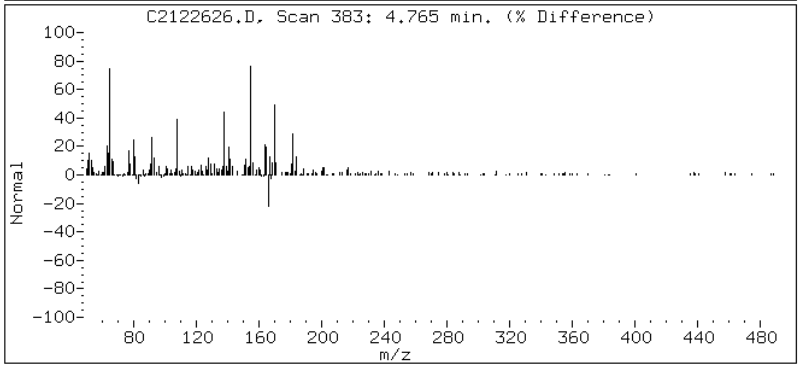
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

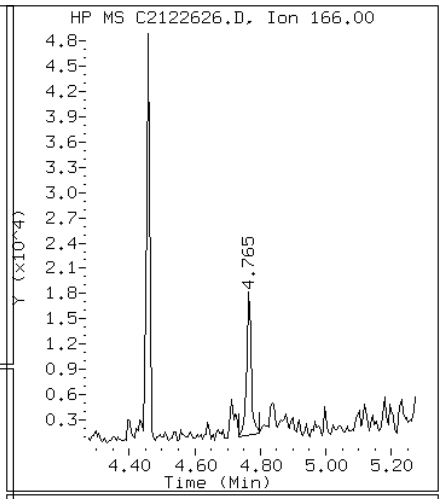
8 Fluorene

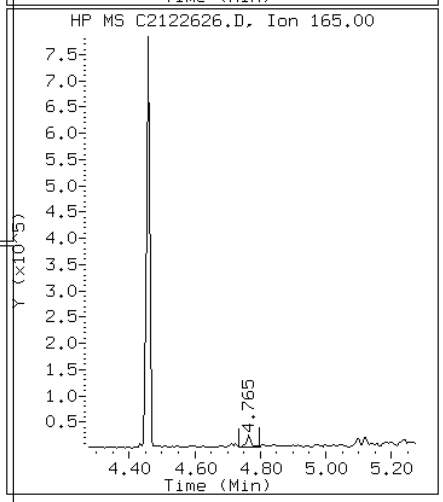












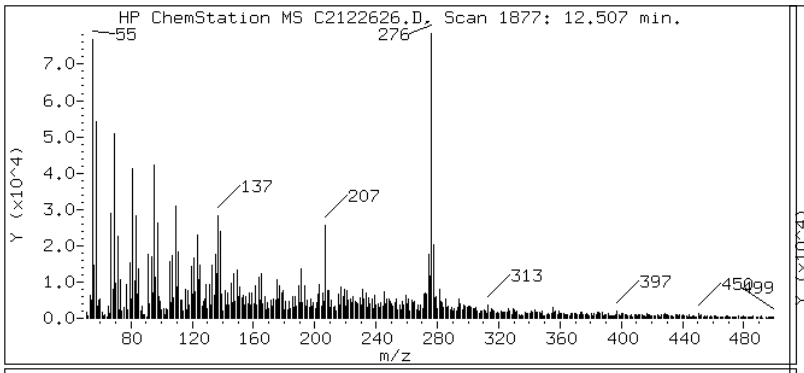
Data File: C2122626.D

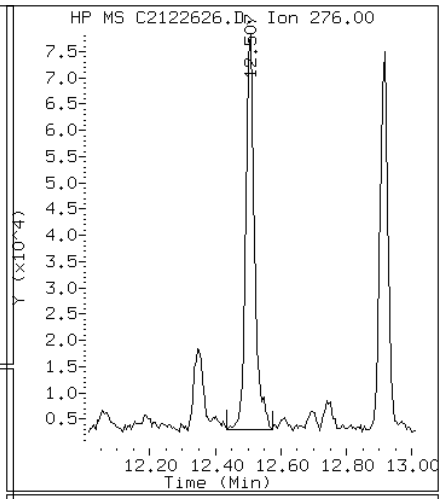
Date: 26-DEC-2012 20:59

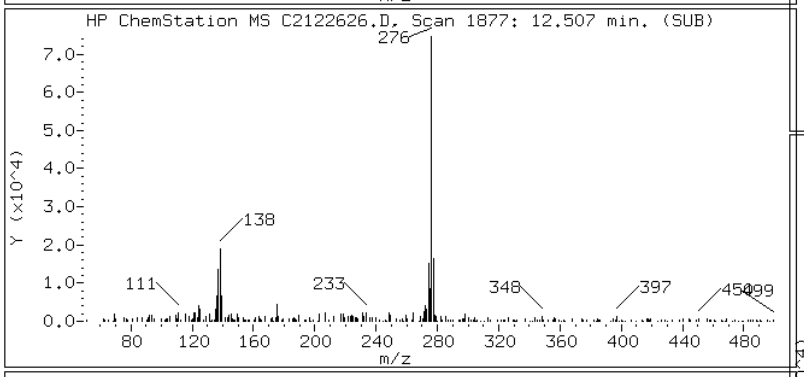
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

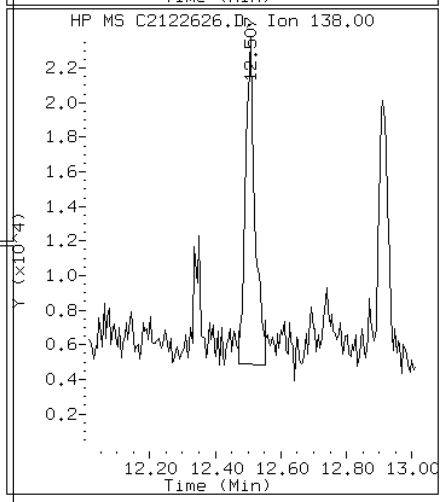
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

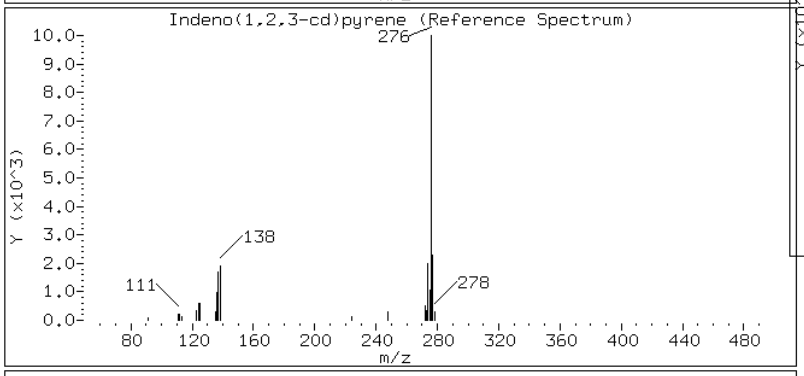
22 Indeno(1,2,3-cd)pyrene

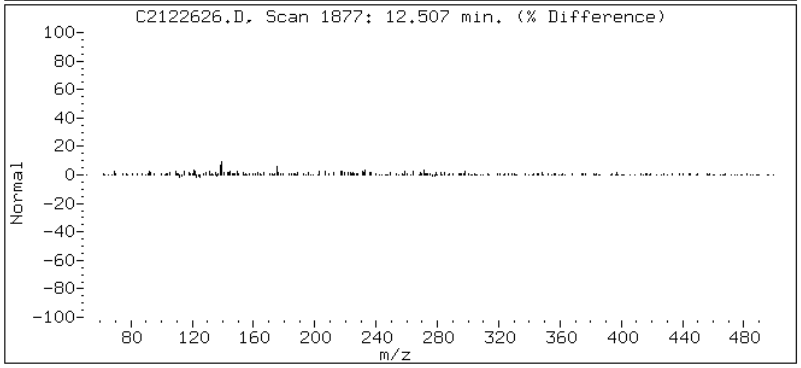












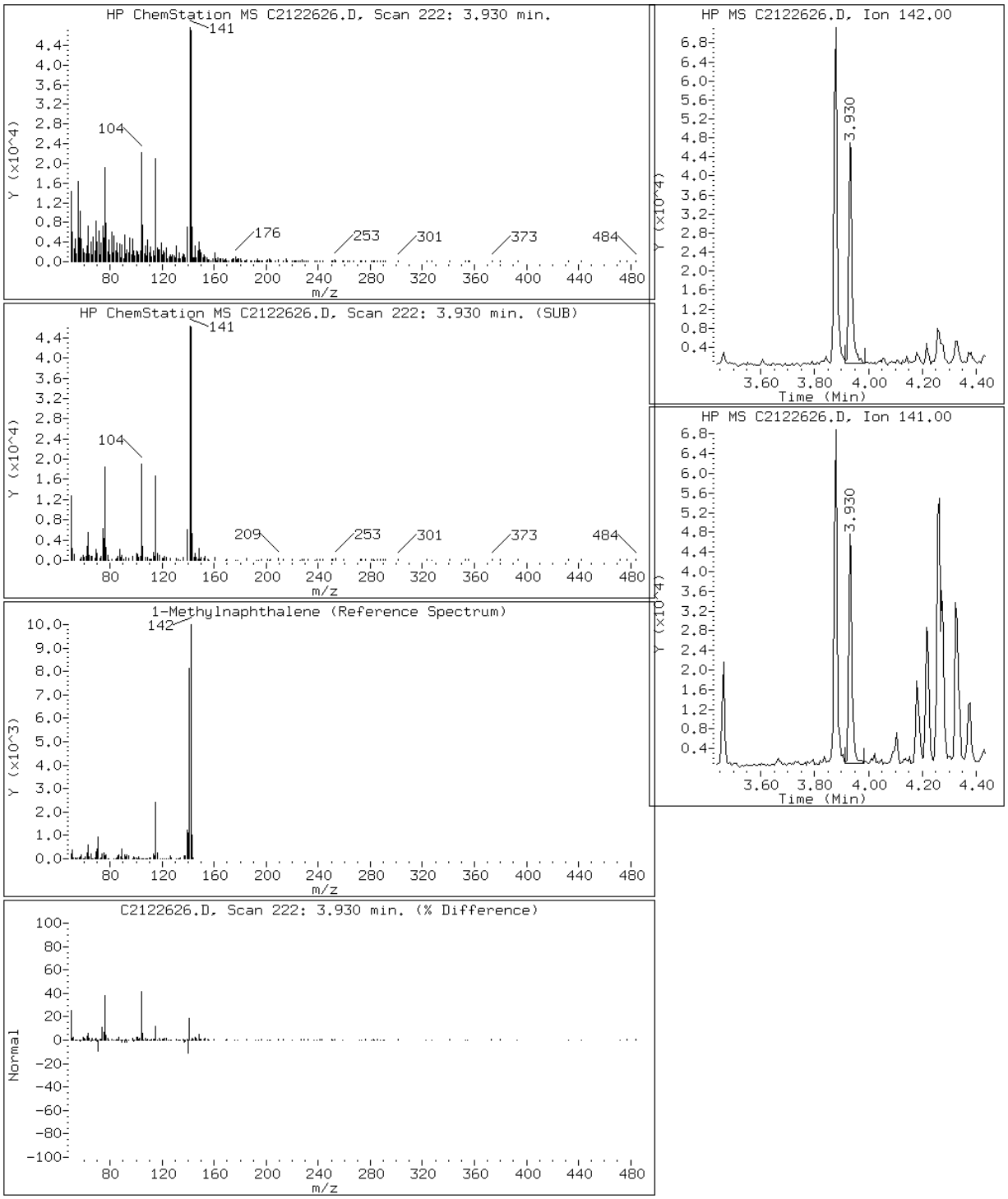
Data File: C2122626.D

Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene



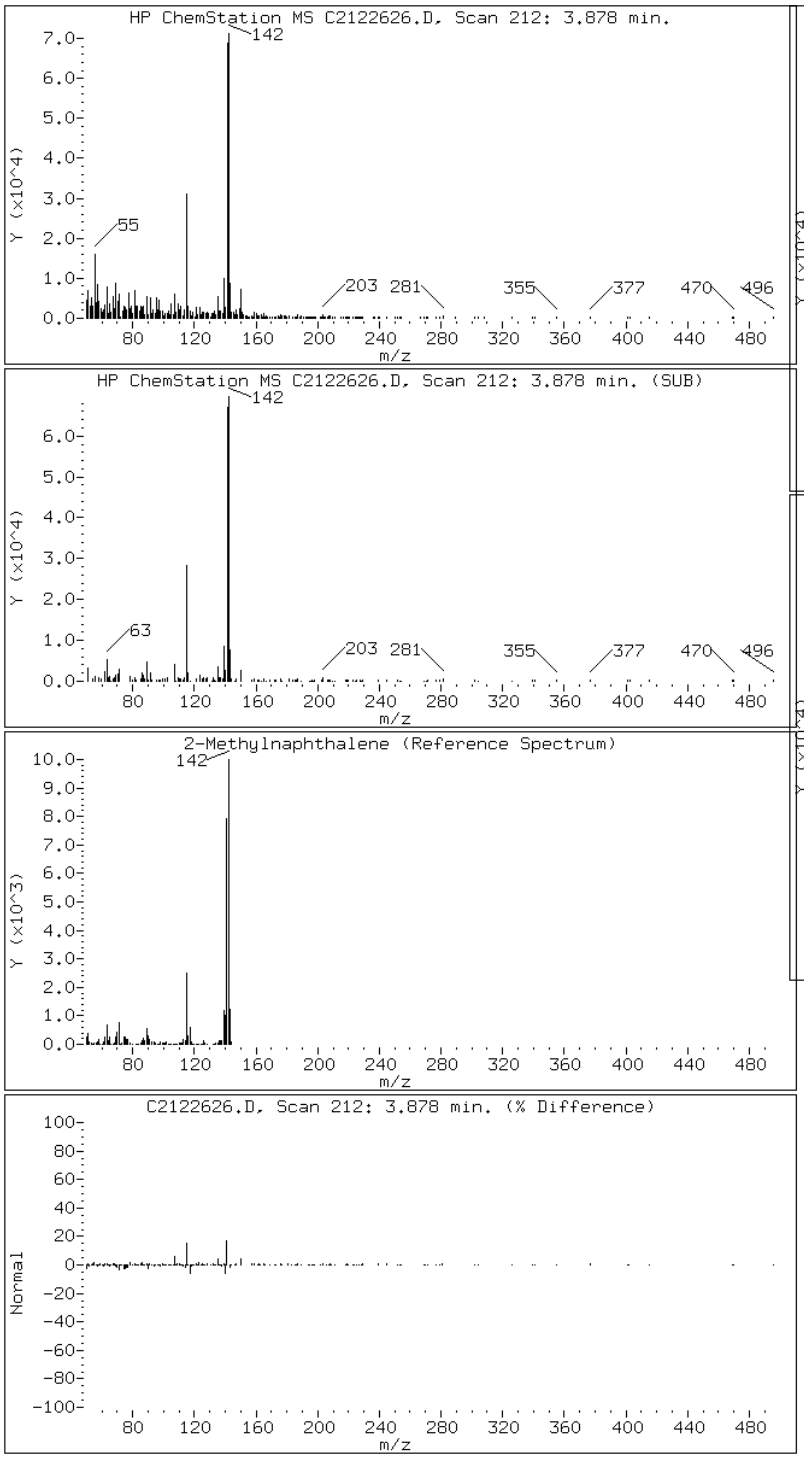
Data File: C2122626.D

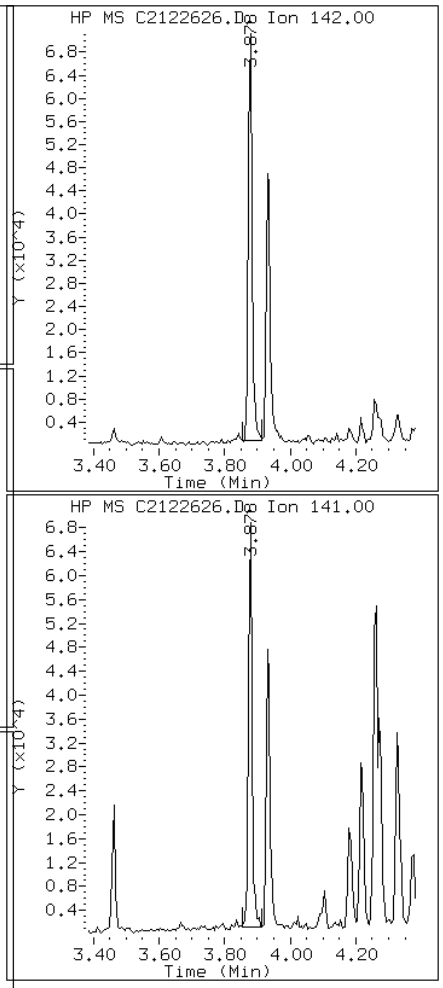
Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene





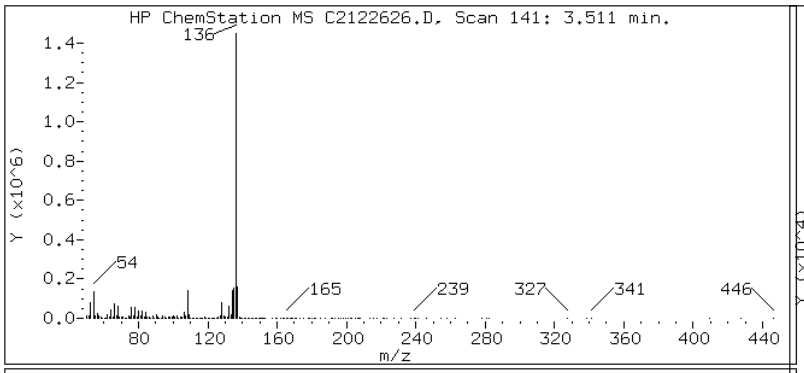
Data File: C2122626.D

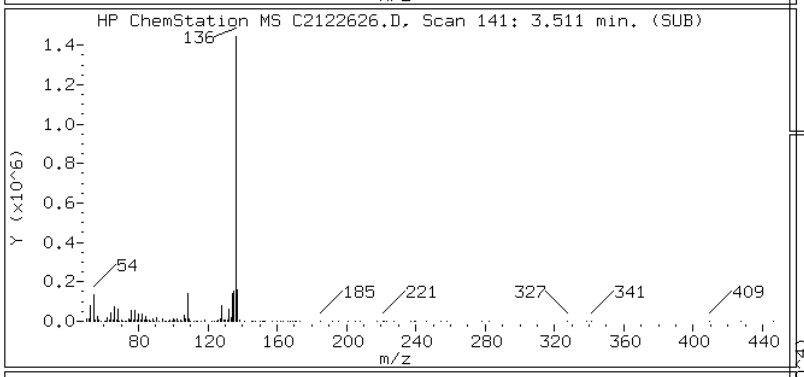
Date: 26-DEC-2012 20:59

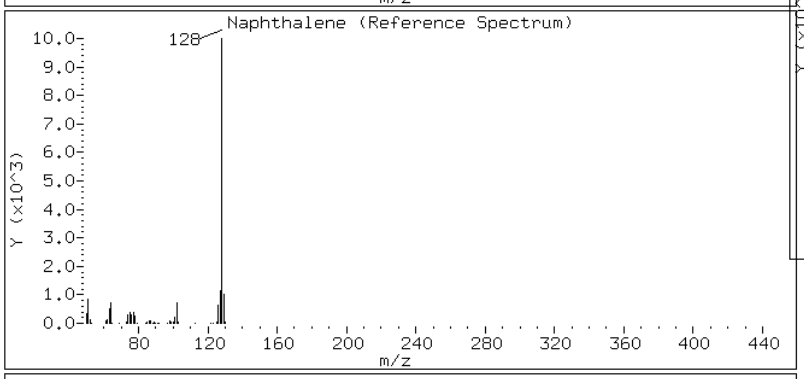
Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

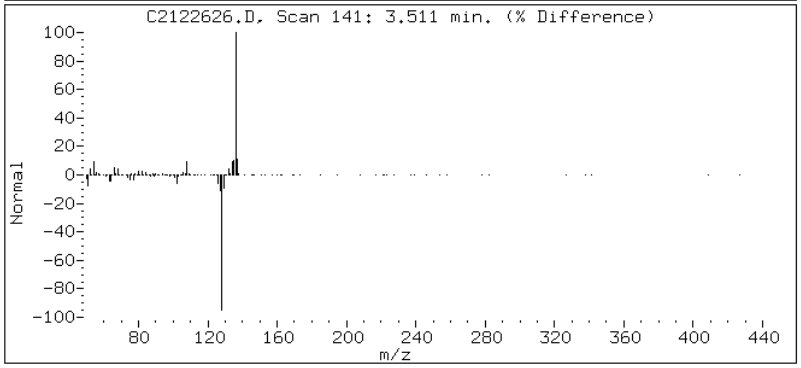
Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

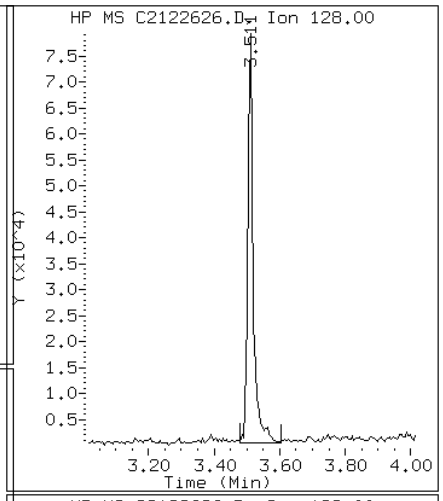
2 Naphthalene

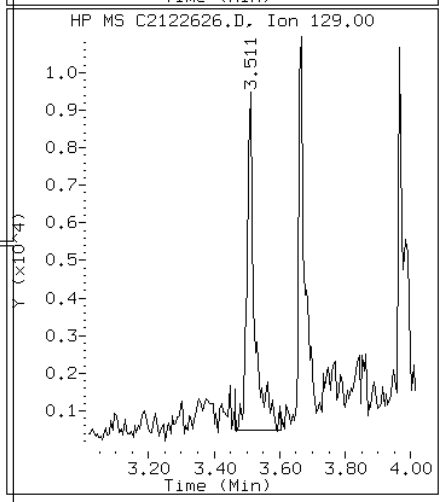












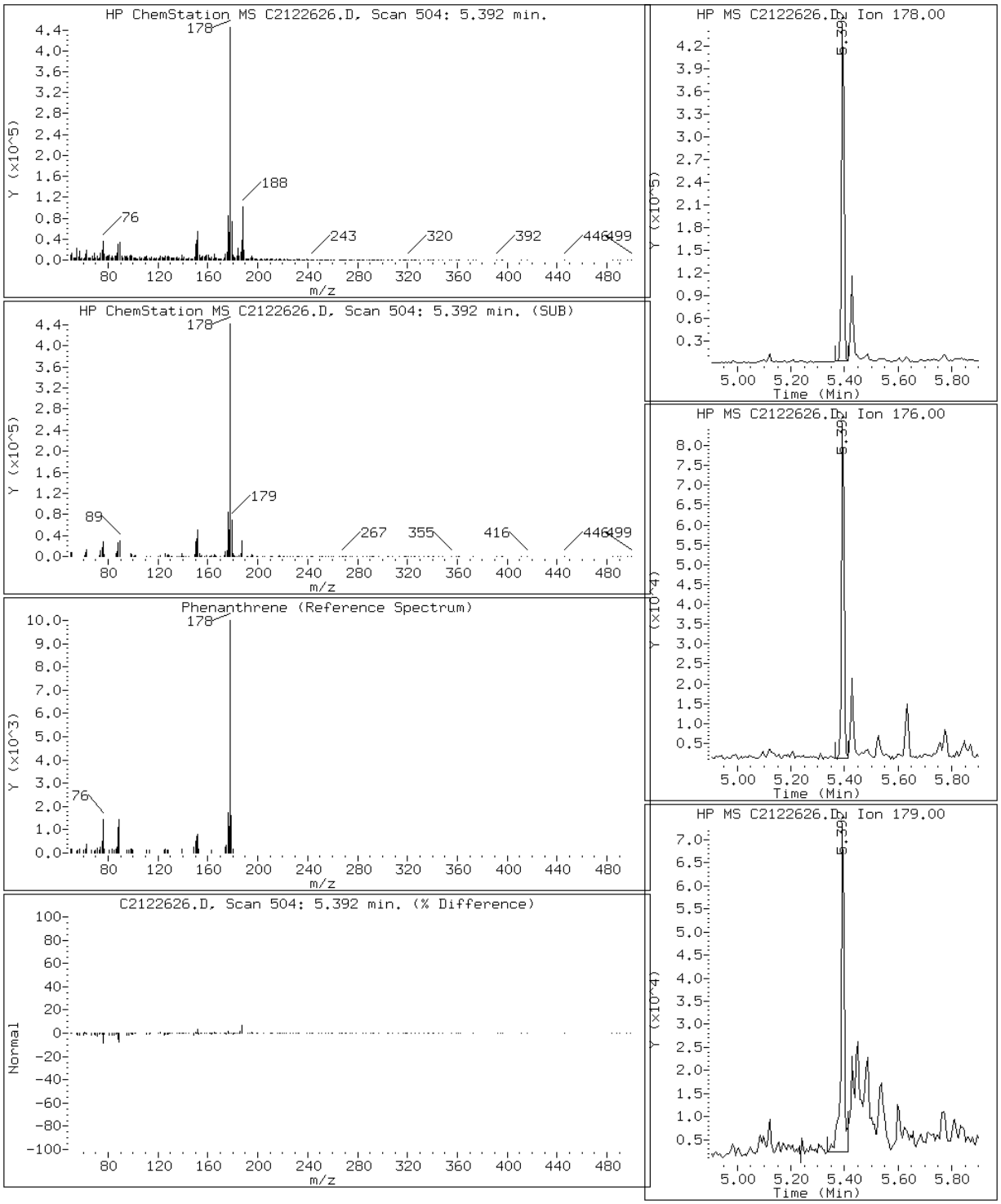
Data File: C2122626.D

Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



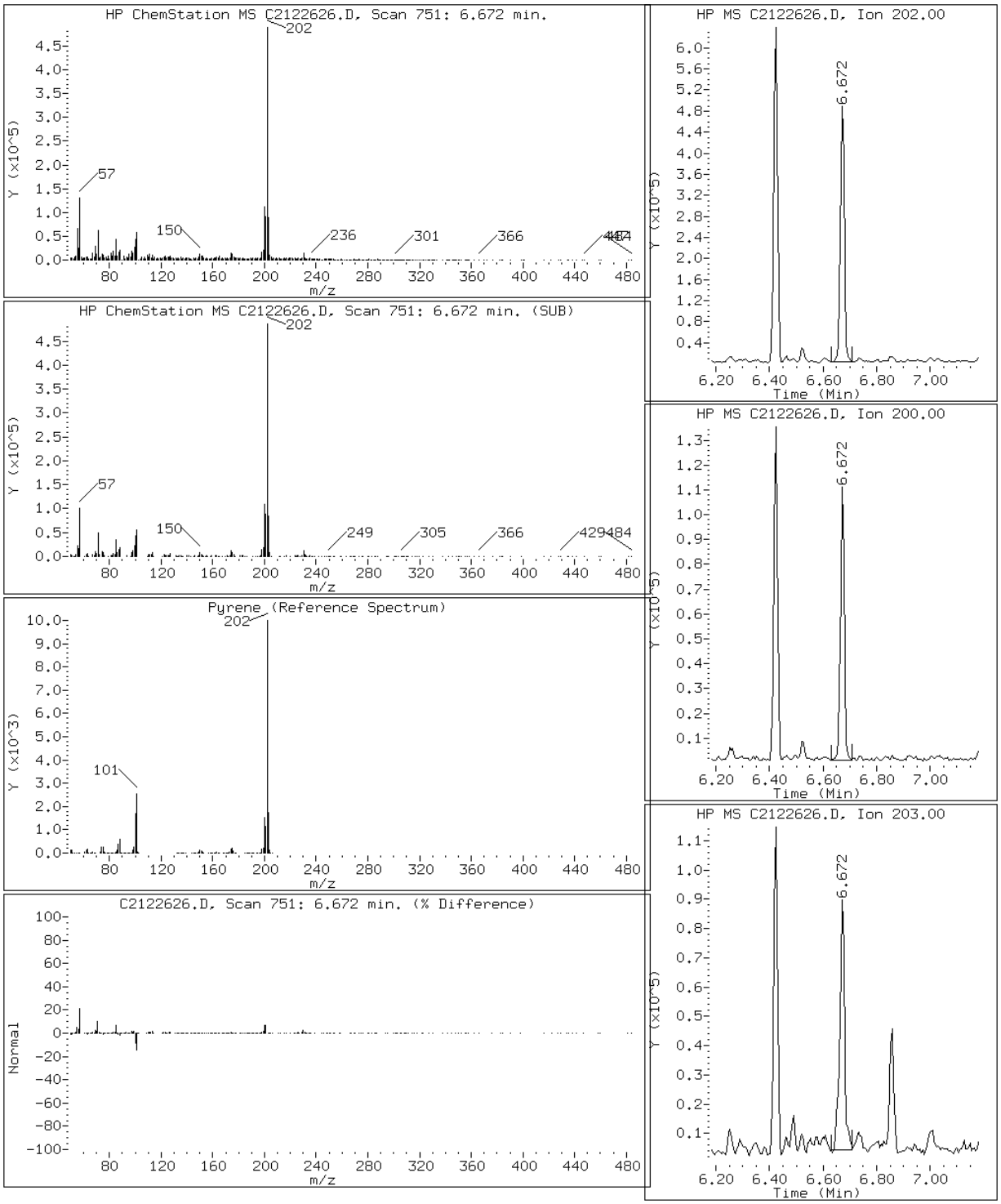
Data File: C2122626.D

Date: 26-DEC-2012 20:59

Client ID: HP0294B-CS-SP Instrument: TSMC5973.i

Sample Info: 680-85785-A-28-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122626.D
Inj. Date and Time: 26-DEC-2012 20:59
Instrument ID: TSMC5973.i
Client ID: HP0294B-CS-SP
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

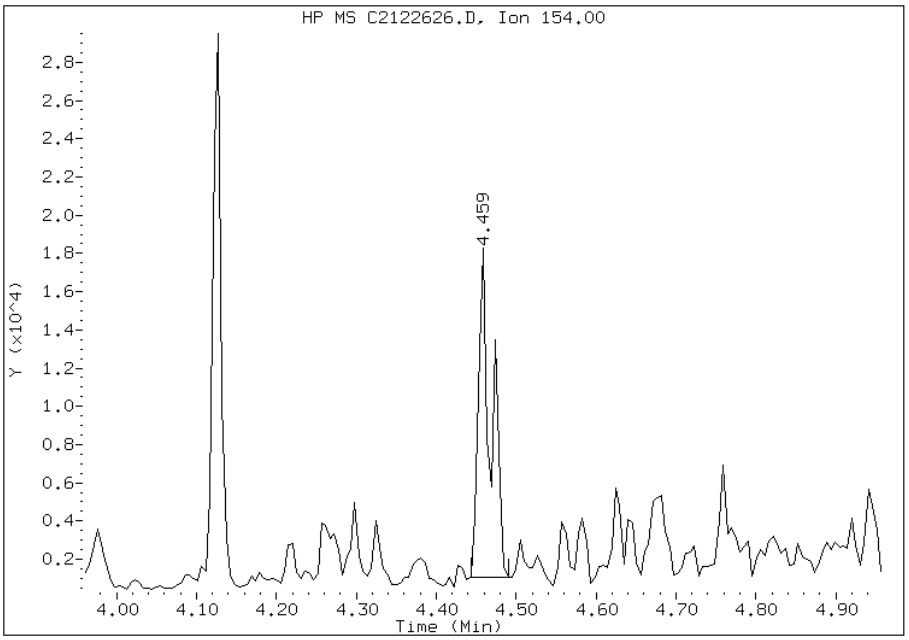
Processing Integration Results

RT: 4.46

Response: 19411

Amount: 0

Conc: 6



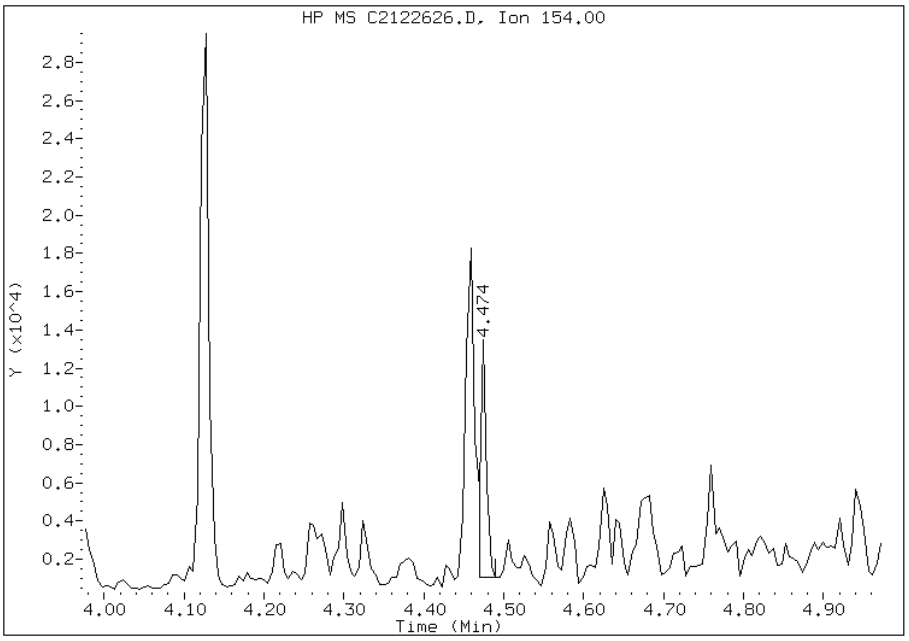
Manual Integration Results

RT: 4.47

Response: 7000

Amount: 0

Conc: 2



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122626.D
Inj. Date and Time: 26-DEC-2012 20:59
Instrument ID: TSMC5973.i
Client ID: HP0294B-CS-SP
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

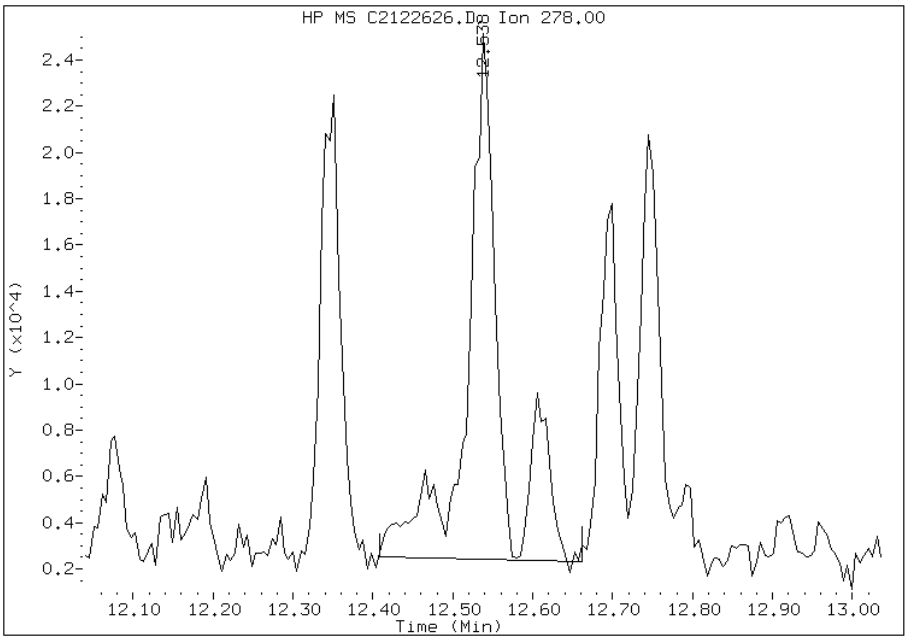
Processing Integration Results

RT: 12.54

Response: 67586

Amount: 0

Conc: 12



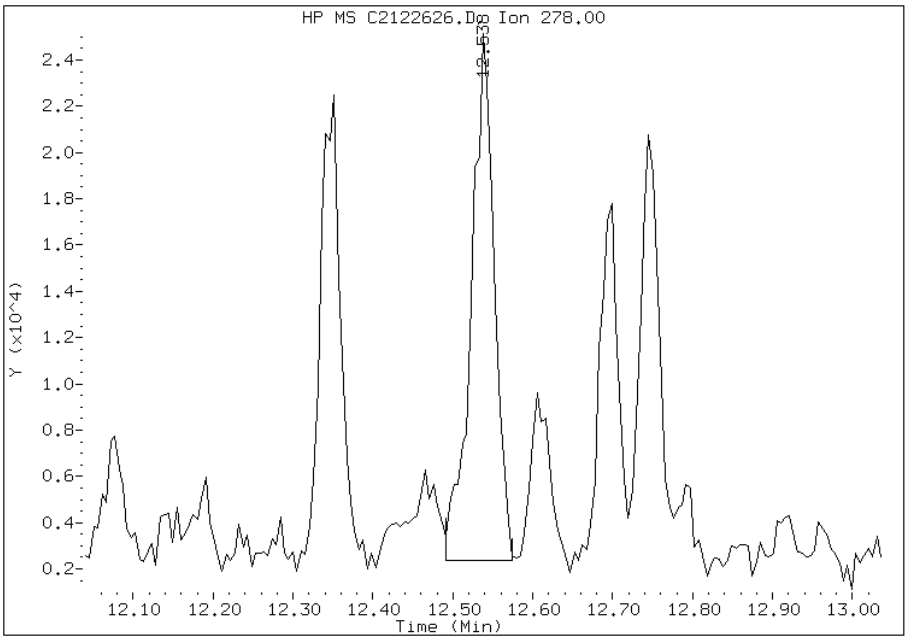
Manual Integration Results

RT: 12.54

Response: 46397

Amount: 0

Conc: 8



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:32
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511AB-GS | Lab Sample ID: 680-85785-29

Matrix: Solid | Lab File ID: C2122617.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:24

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.02(g) | Date Analyzed: 12/26/2012 18:08

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1000

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

% Moisture: 44.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	87000		12000	1000
208-96-8	Acenaphthylene	1400	J	12000	960
120-12-7	Anthracene	140000		12000	1200
56-55-3	Benzo[a]anthracene	240000		12000	1100
50-32-8	Benzo[a]pyrene	240000		12000	1200
205-99-2	Benzo[b]fluoranthene	300000		12000	1700
191-24-2	Benzo[g,h,i]perylene	80000		12000	2000
207-08-9	Benzo[k]fluoranthene	140000		12000	1200
218-01-9	Chrysene	260000		12000	1400
53-70-3	Dibenz(a,h)anthracene	31000		12000	1200
206-44-0	Fluoranthene	660000		12000	1100
86-73-7	Fluorene	63000		12000	940
193-39-5	Indeno[1,2,3-cd]pyrene	110000		12000	2000
90-12-0	1-Methylnaphthalene	2800	J	12000	960
91-57-6	2-Methylnaphthalene	5600	J	12000	940
91-20-3	Naphthalene	6200	J	12000	940
85-01-8	Phenanthrene	580000		12000	800
129-00-0	Pyrene	450000		12000	940

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122617.D
Lab Smp Id: 680-85785-A-29-C Client Smp ID: CV0511AB-GS
Inj Date : 26-DEC-2012 18:08
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-29-C~98122~1000~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 12
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	1000.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.020	Weight Extracted
M	44.692	% 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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	Compound Not Detected.						
* 1 Naphthalene-d8	136	3.505	3.505	(1.000)	6900804	40.0000		
2 Naphthalene	128	3.515	3.515	(1.003)	17222	0.10212	6200(a)	
3 2-Methylnaphthalene	142	3.878	3.883	(1.106)	11907	0.09304	5600(a)	
4 1-Methylnaphthalene	142	3.935	3.935	(1.123)	5899	0.04699	2800(a)	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3858751	40.0000		
6 Acenaphthylene	152	4.376	4.381	(0.981)	4837	0.02333	1400(a)	
7 Acenaphthene	154	4.474	4.479	(1.003)	156626	1.44380	87000	
8 Fluorene	166	4.764	4.774	(1.069)	151313	1.04485	63000	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6189454	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	1656625	9.62937	580000	
11 Anthracene	178	5.428	5.438	(1.010)	419242	2.25004	140000	
$ 12 o-Terphenyl	230	Compound Not Detected.						
13 Fluoranthene	202	6.423	6.433	(1.195)	2515263	10.8960	660000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.330	8.340	(1.000)	7035294	40.0000		
15 Pyrene	202	6.671	6.682	(0.801)	1963573	7.44982	450000	
16 Benzo(a)anthracene	228	8.298	8.309	(0.996)	974527	4.03240	240000	
17 Chrysene	228	8.361	8.371	(1.004)	914099	4.38389	260000	
* 18 Perylene-d12	264	10.776	10.781	(1.000)	7908494	40.0000		
19 Benzo(b)fluoranthene	252	10.092	10.102	(0.937)	1264252	5.01818	300000	
20 Benzo(k)fluoranthene	252	10.133	10.154	(0.940)	554413	2.26158	140000	
21 Benzo(a)pyrene	252	10.641	10.656	(0.987)	883290	3.94426	240000	
22 Indeno(1,2,3-cd)pyrene	276	12.486	12.512	(1.159)	432687	1.81160	110000	
23 Dibenzo(a,h)anthracene	278	12.517	12.548	(1.162)	119471	0.50715	30000(M)	
24 Benzo(g,h,i)perylene	276	12.890	12.921	(1.196)	313153	1.32108	80000	

QC Flag Legend

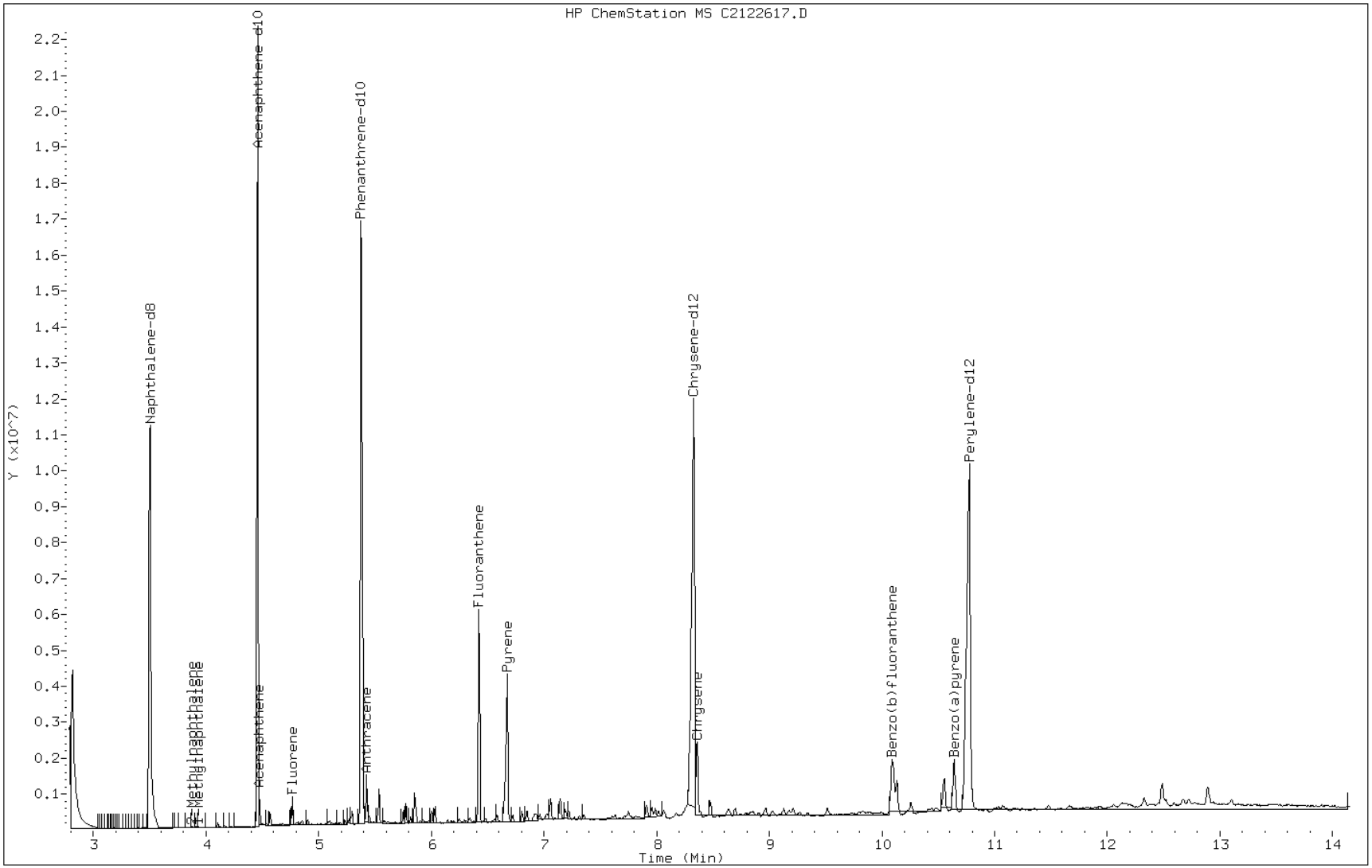
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW



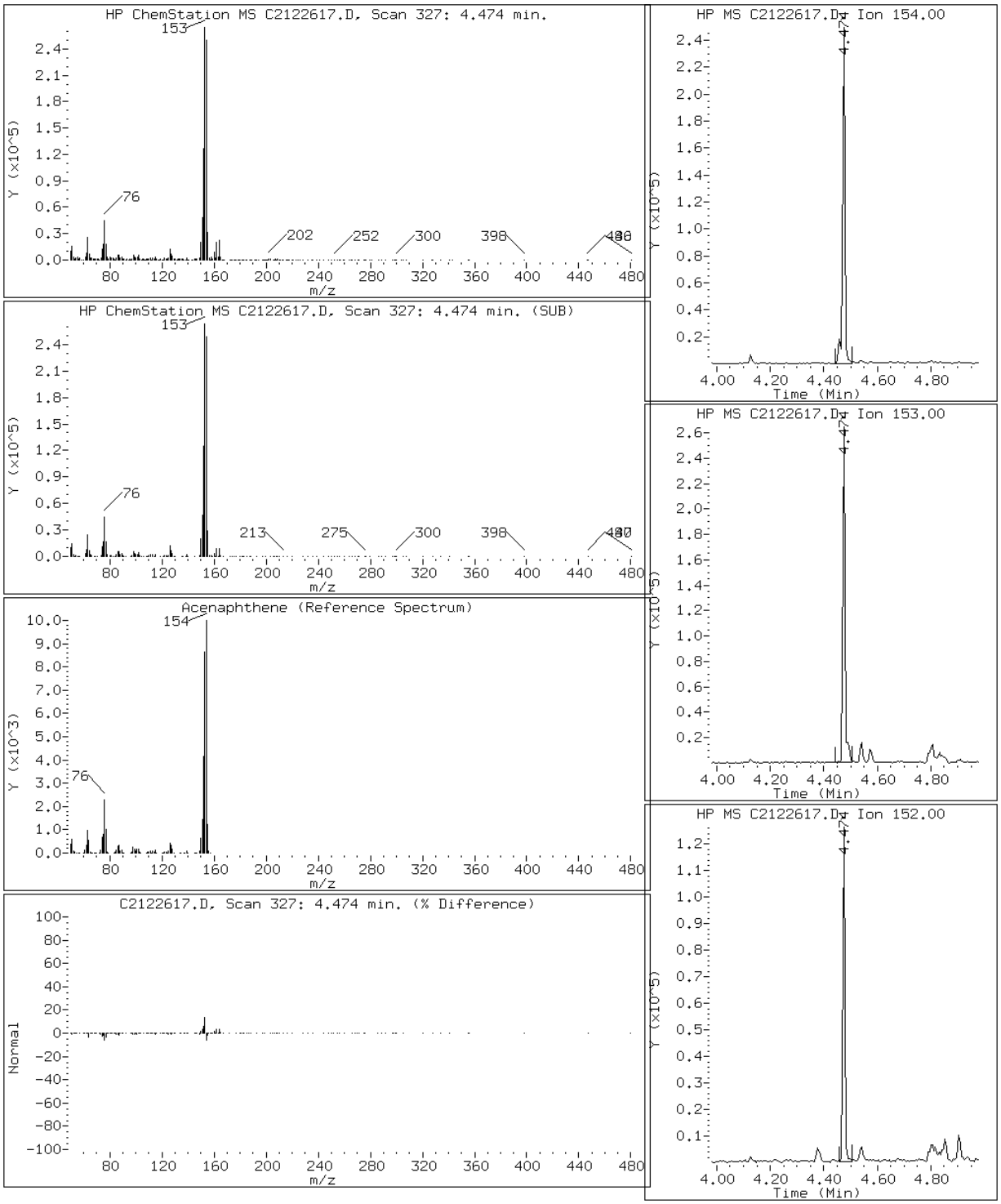
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

7 Acenaphthene



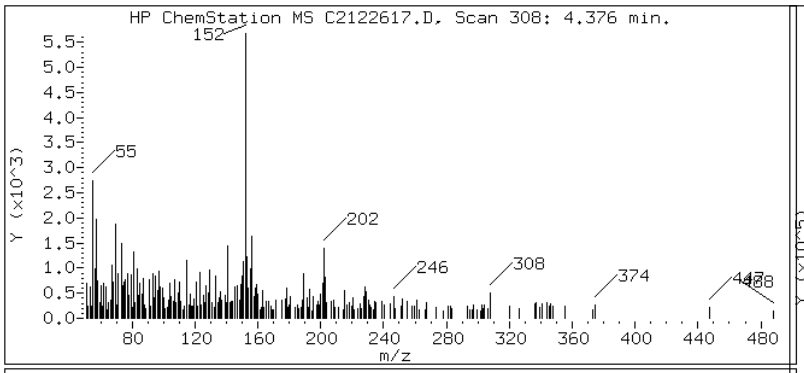
Data File: C2122617.D

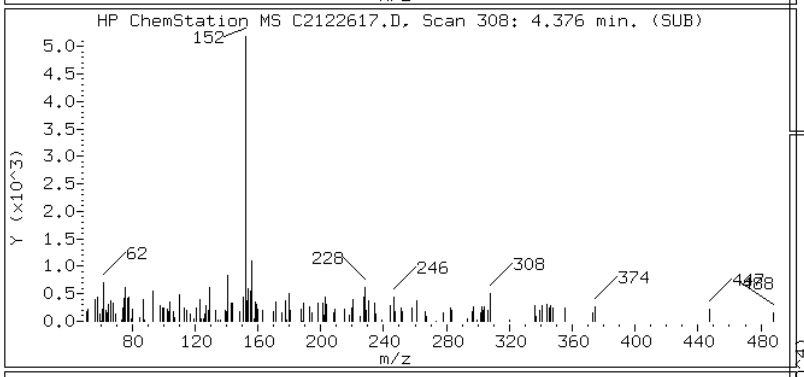
Date: 26-DEC-2012 18:08

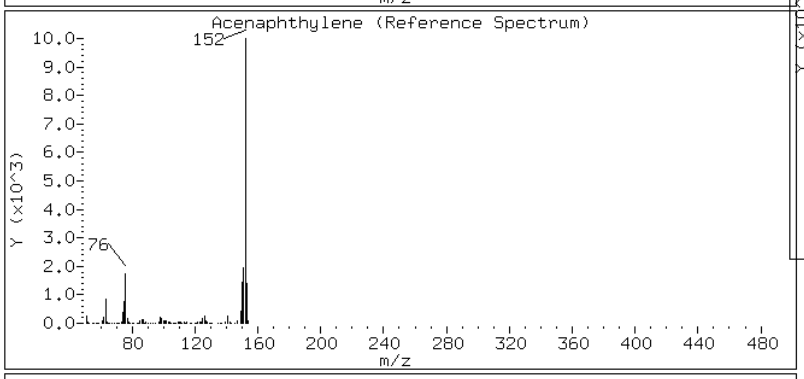
Client ID: CV0511AB-GS Instrument: TSMC5973.i

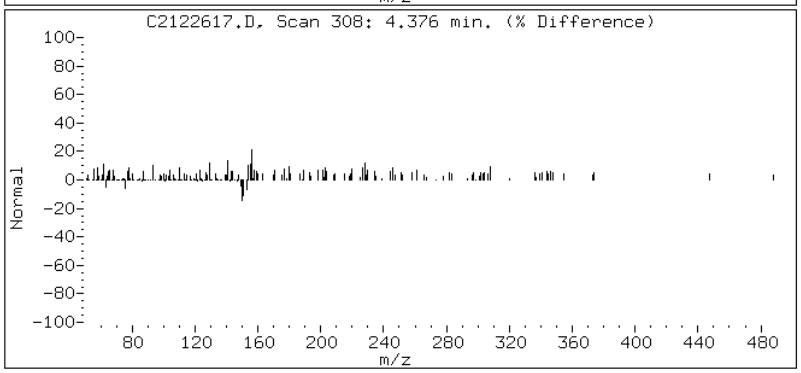
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

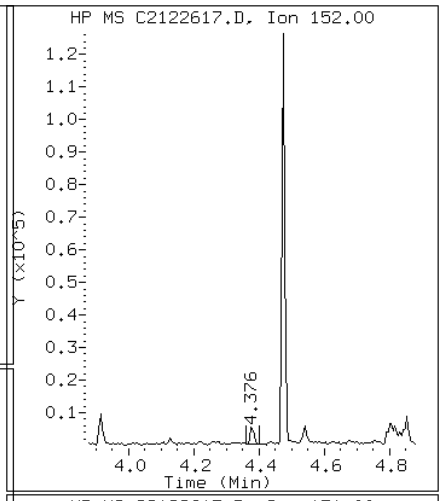
6 Acenaphthylene

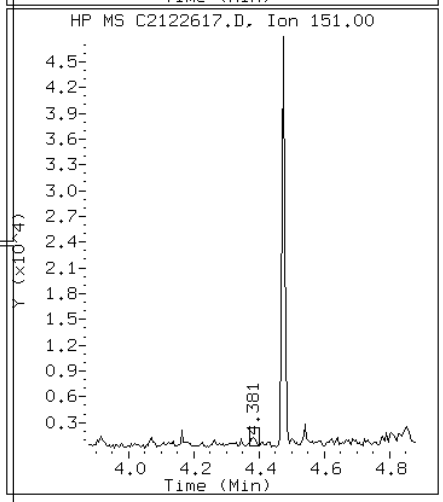












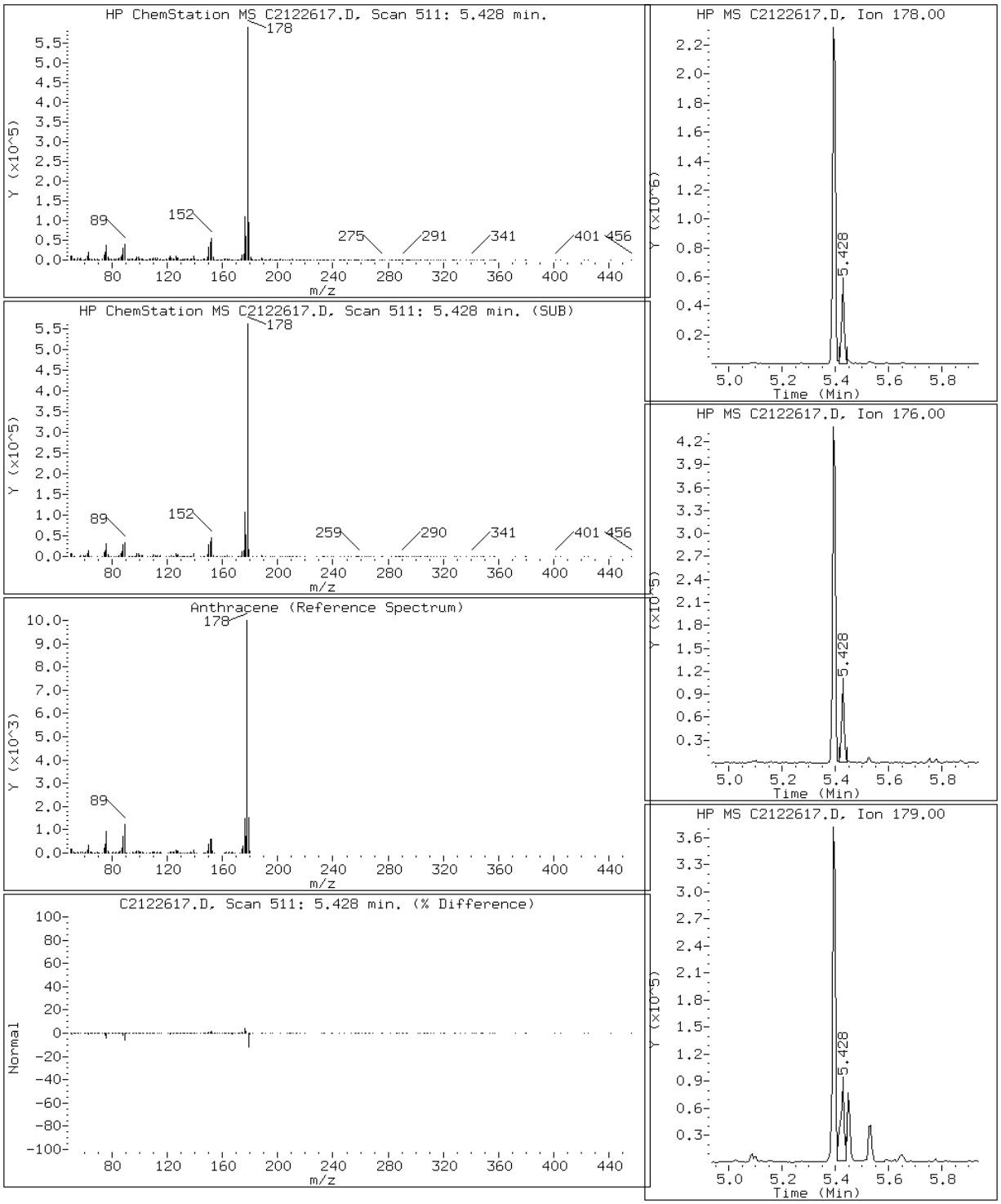
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

11 Anthracene



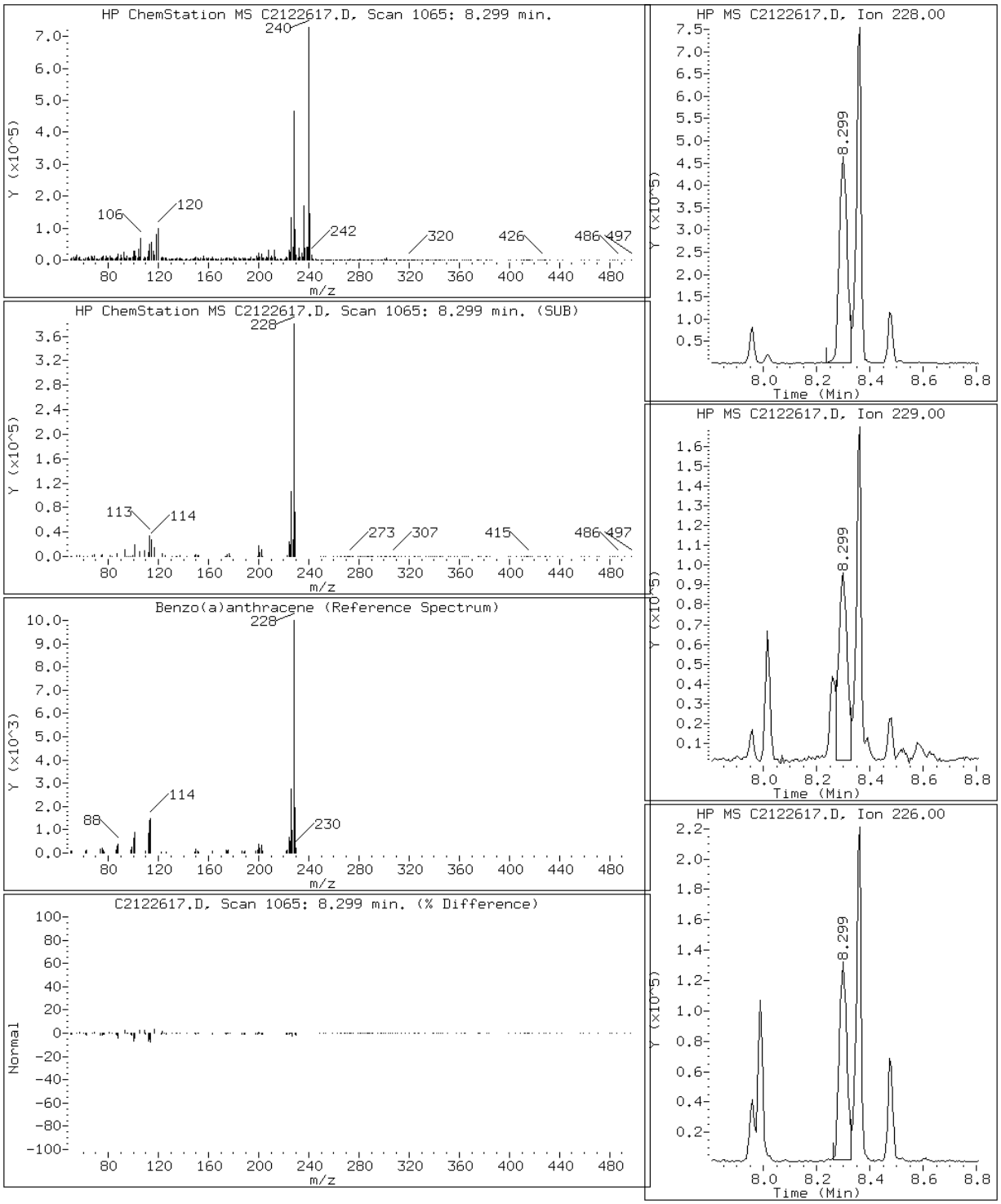
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

16 Benzo(a)anthracene



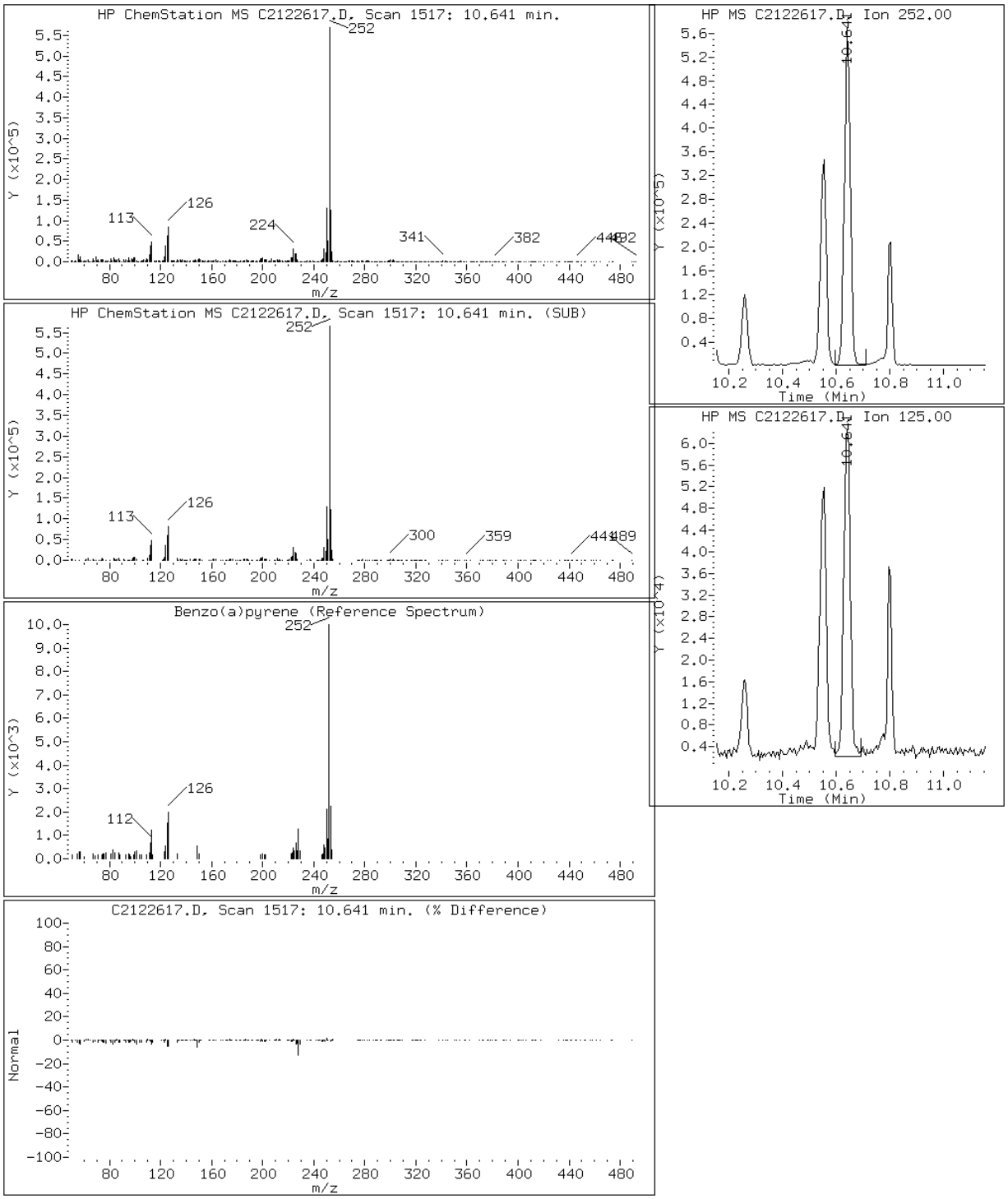
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

21 Benzo(a)pyrene



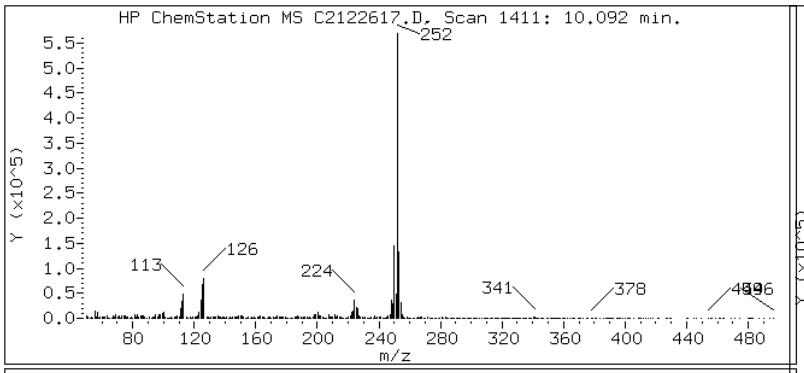
Data File: C2122617.D

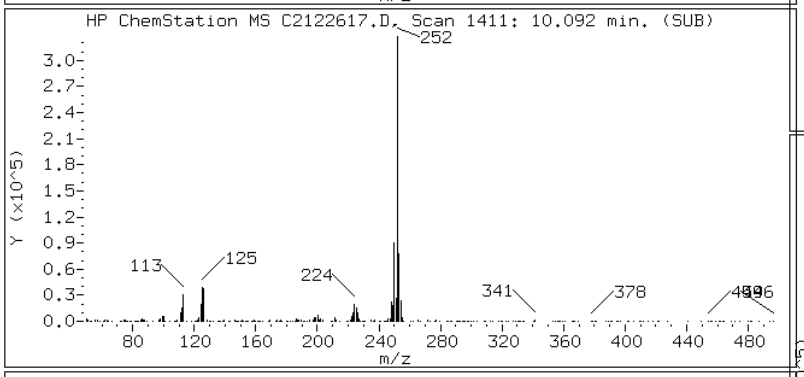
Date: 26-DEC-2012 18:08

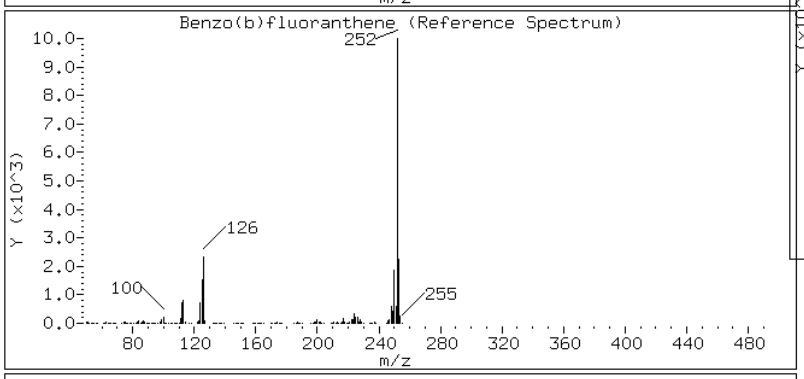
Client ID: CV0511AB-GS Instrument: TSMC5973.i

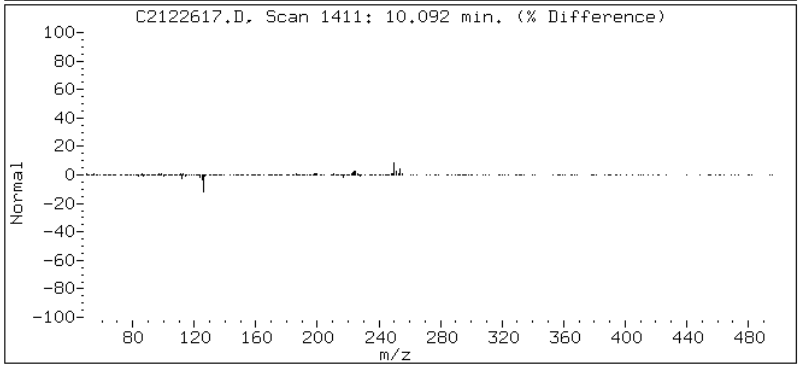
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

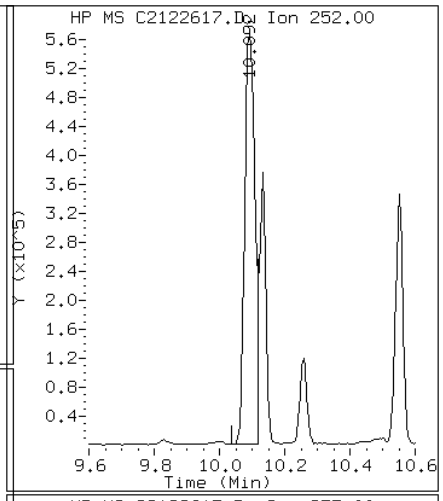
19 Benzo(b)fluoranthene

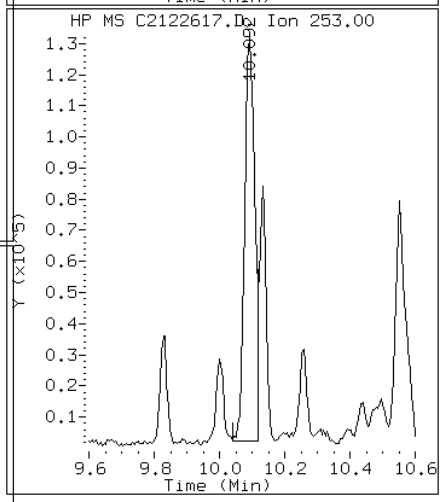












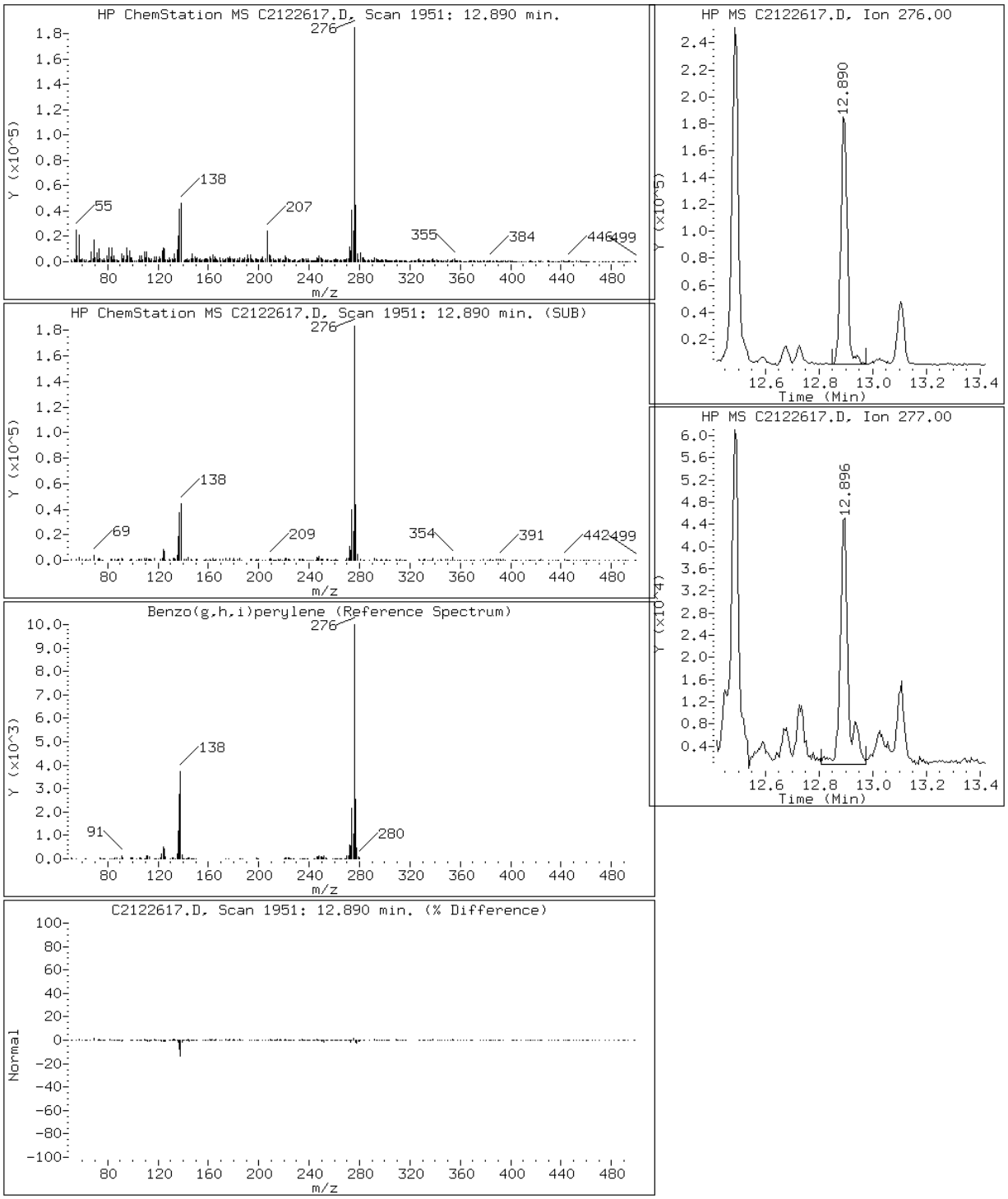
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



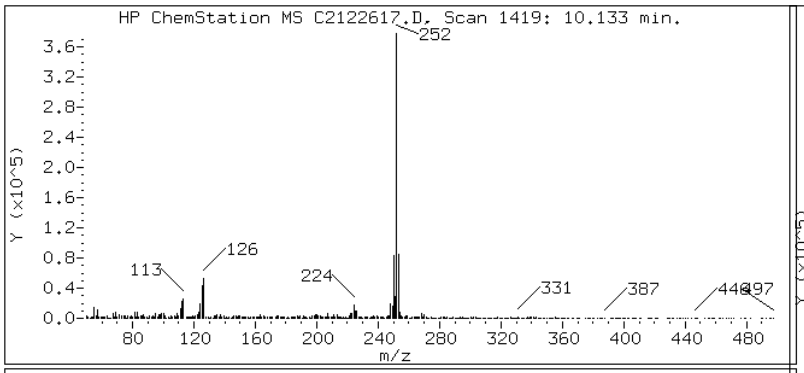
Data File: C2122617.D

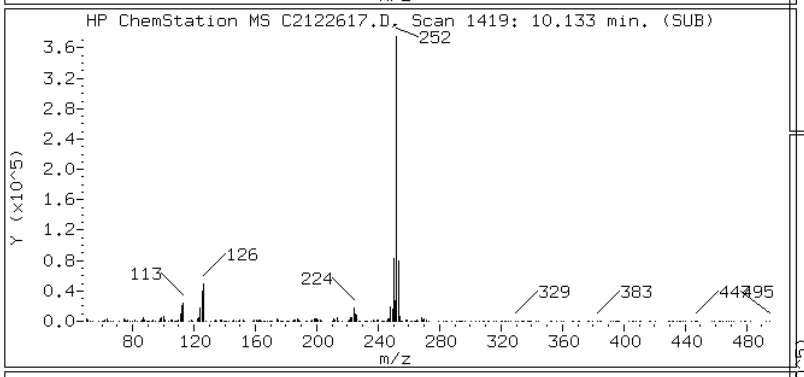
Date: 26-DEC-2012 18:08

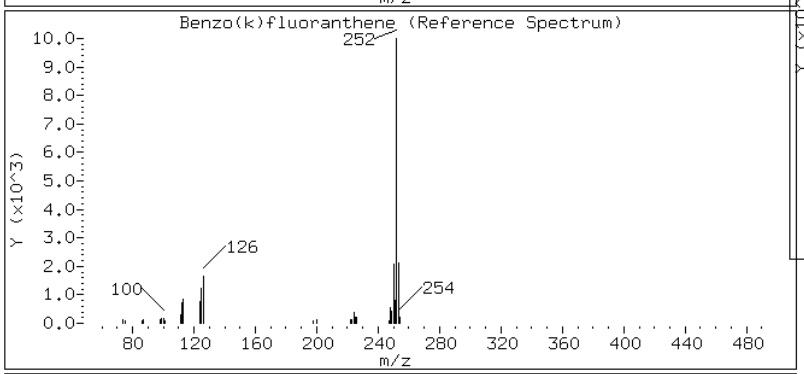
Client ID: CV0511AB-GS Instrument: TSMC5973.i

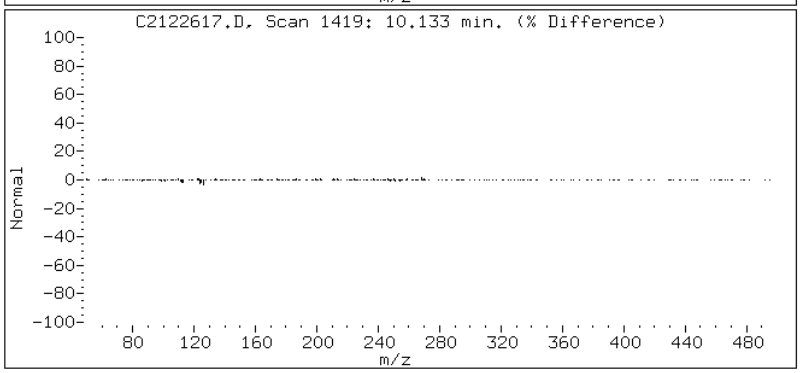
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

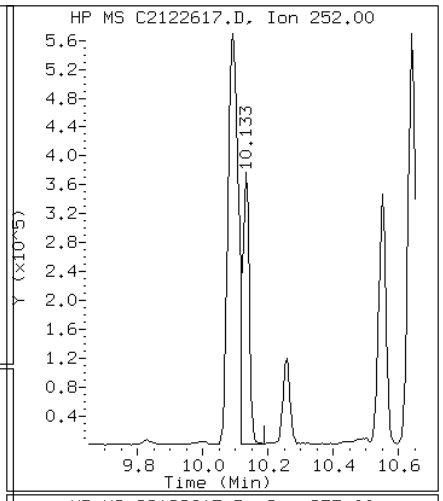
20 Benzo(k)fluoranthene

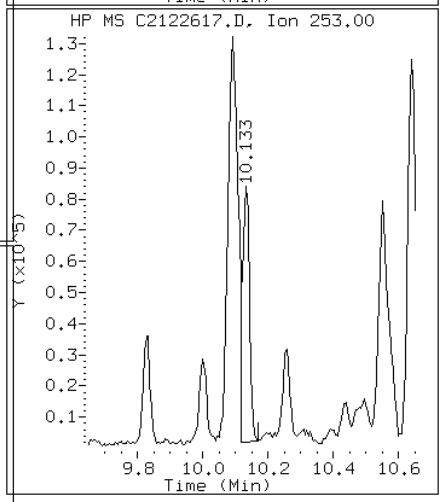












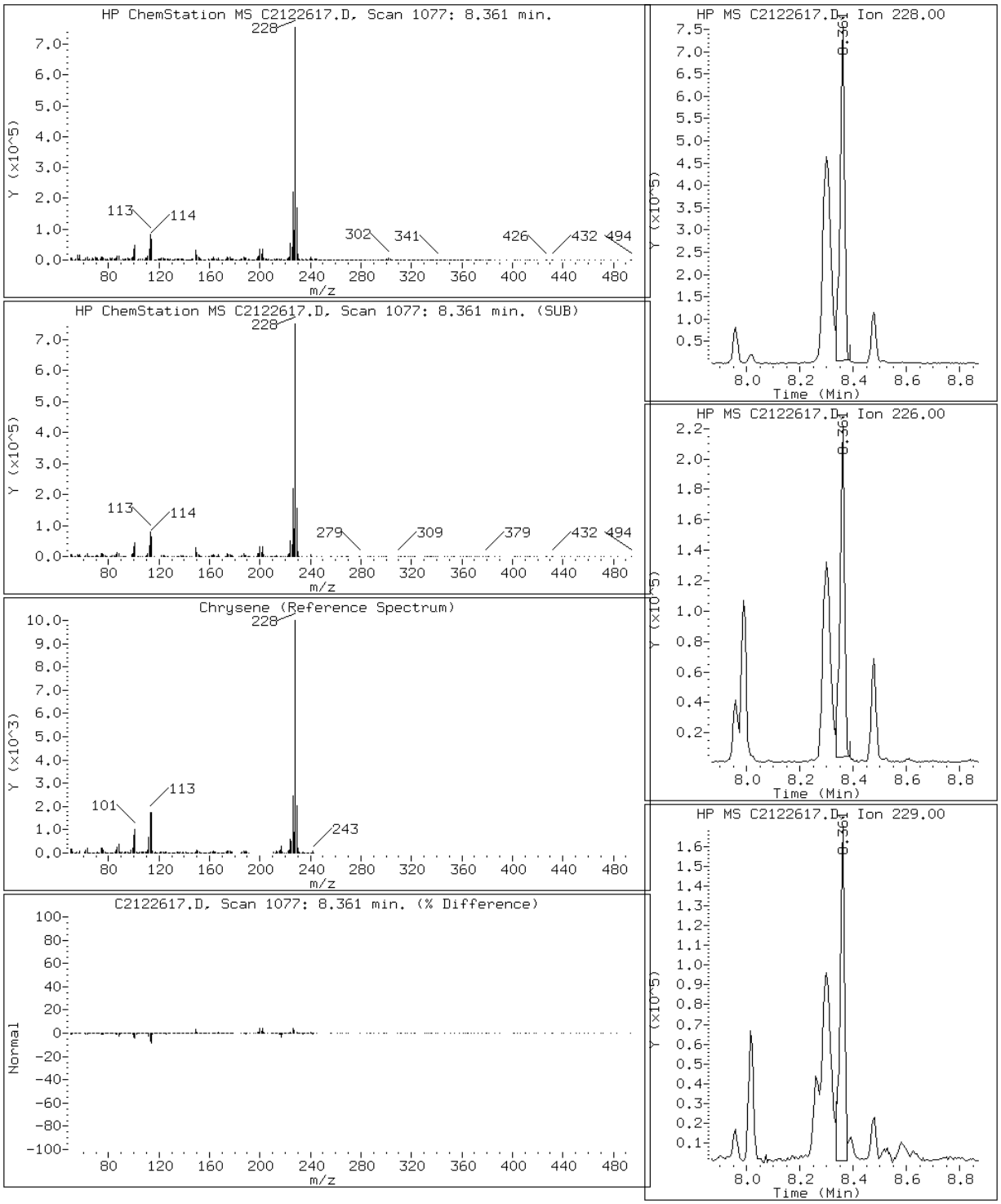
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

17 Chrysene



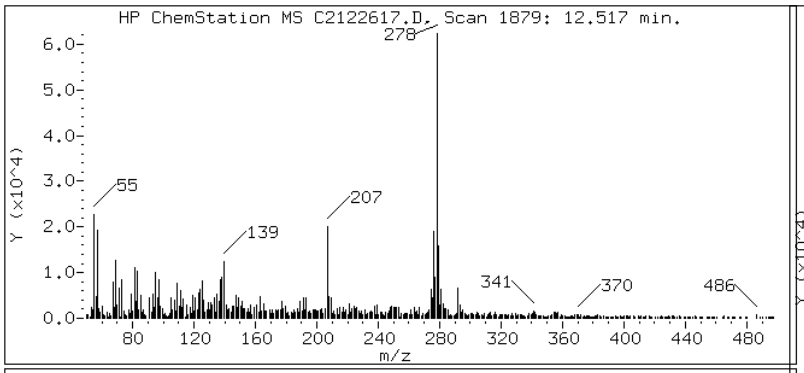
Data File: C2122617.D

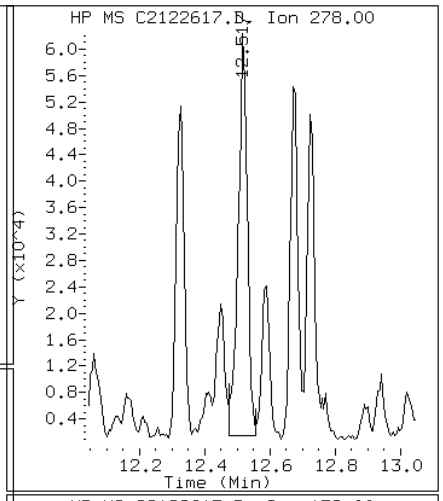
Date: 26-DEC-2012 18:08

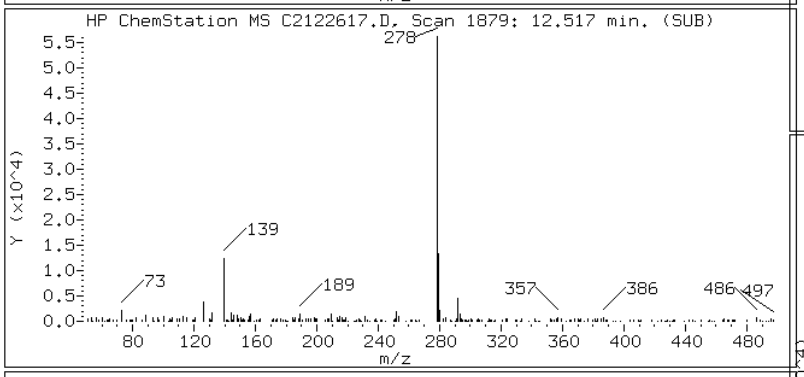
Client ID: CV0511AB-GS Instrument: TSMC5973.i

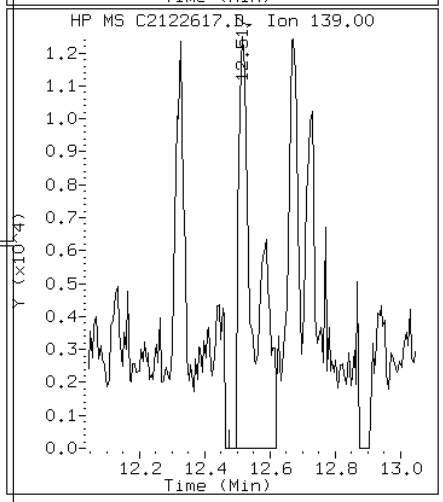
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

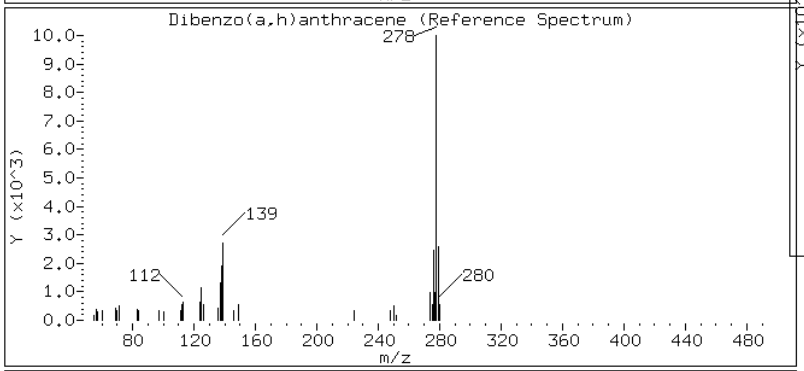
23 Dibenzo(a,h)anthracene

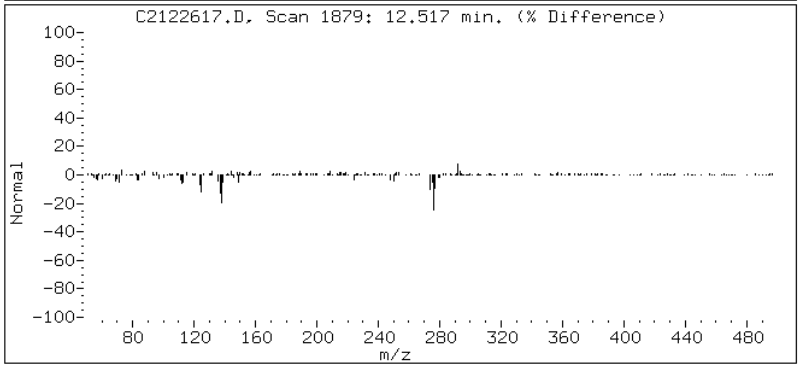












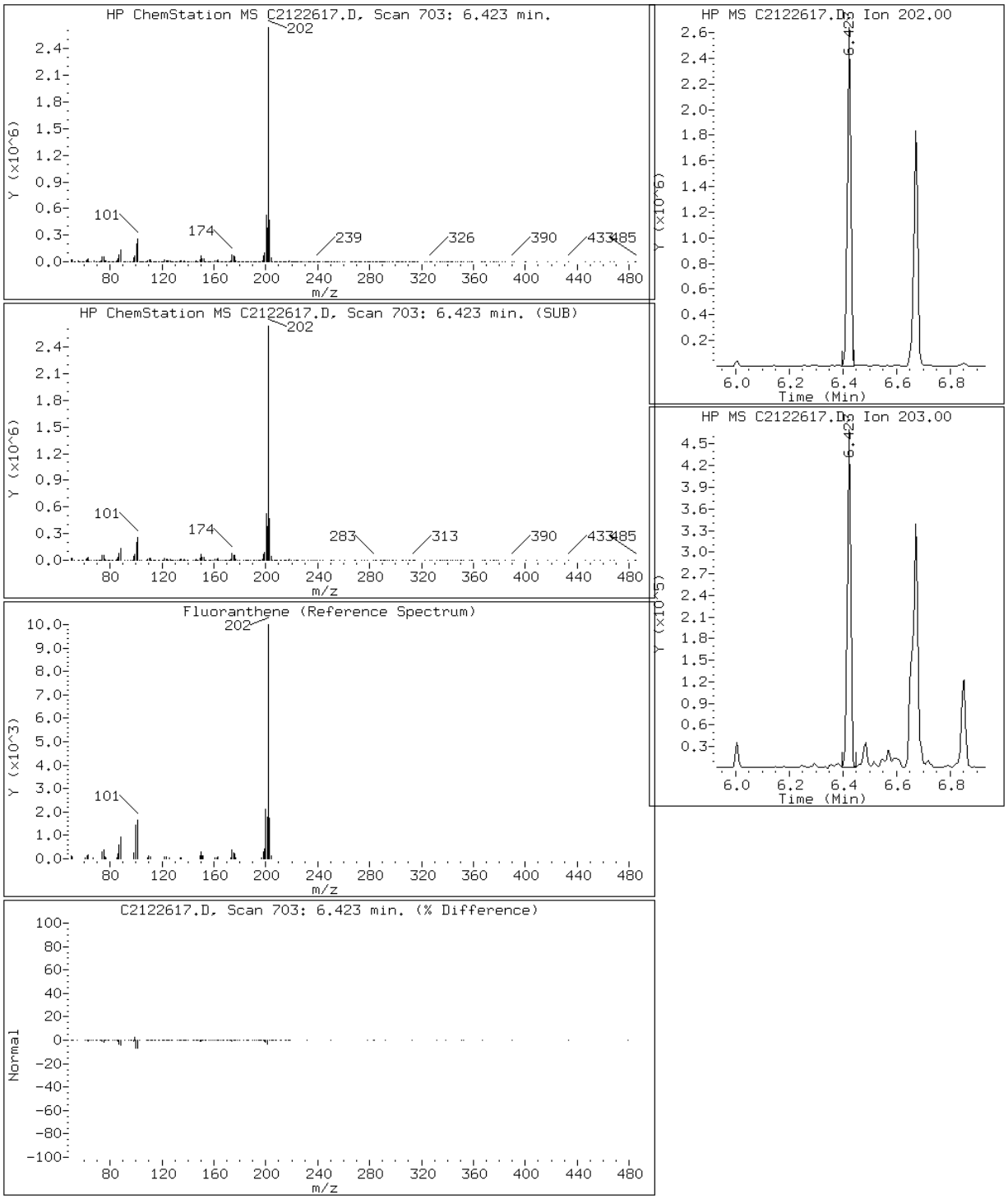
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

13 Fluoranthene



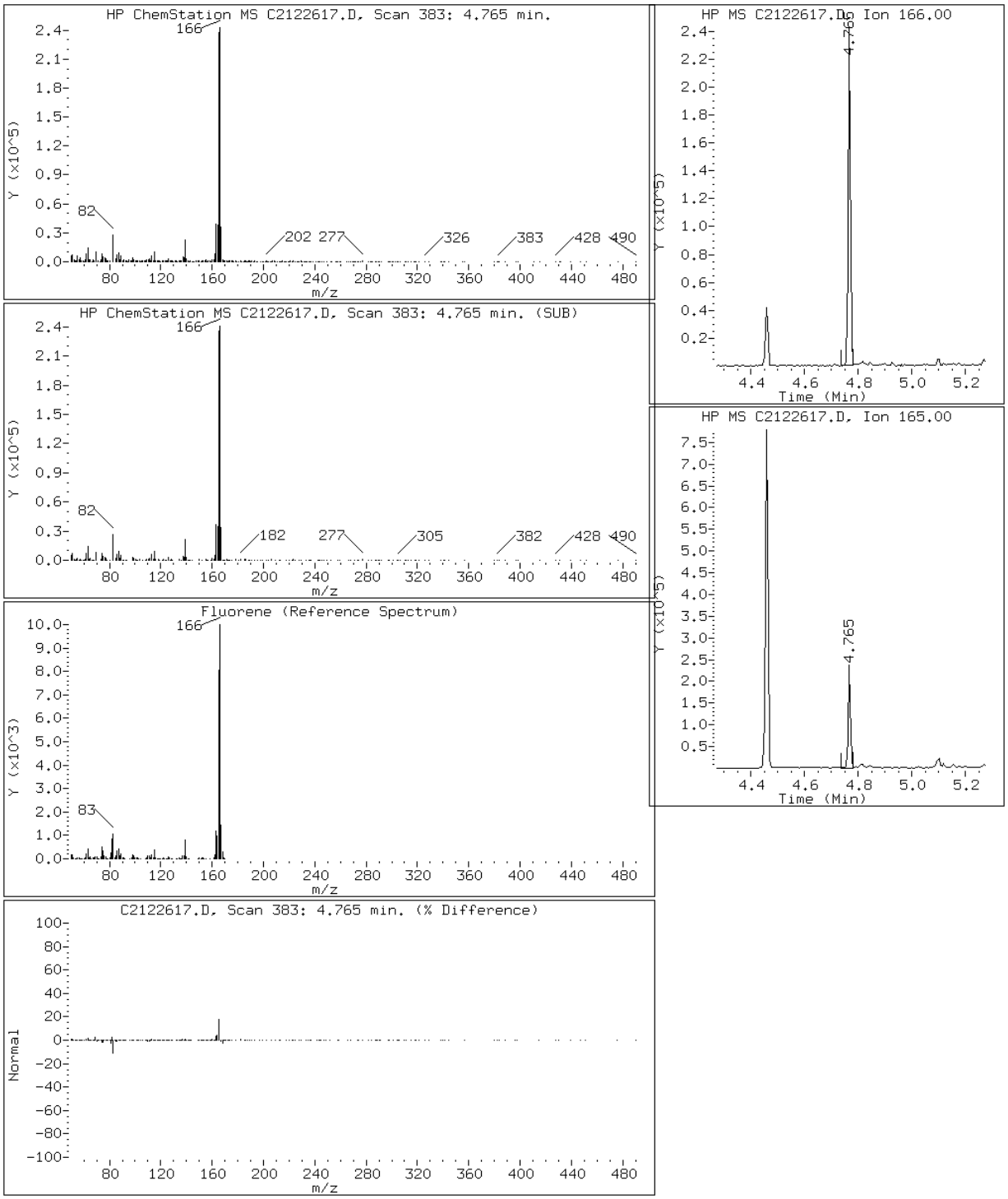
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

8 Fluorene



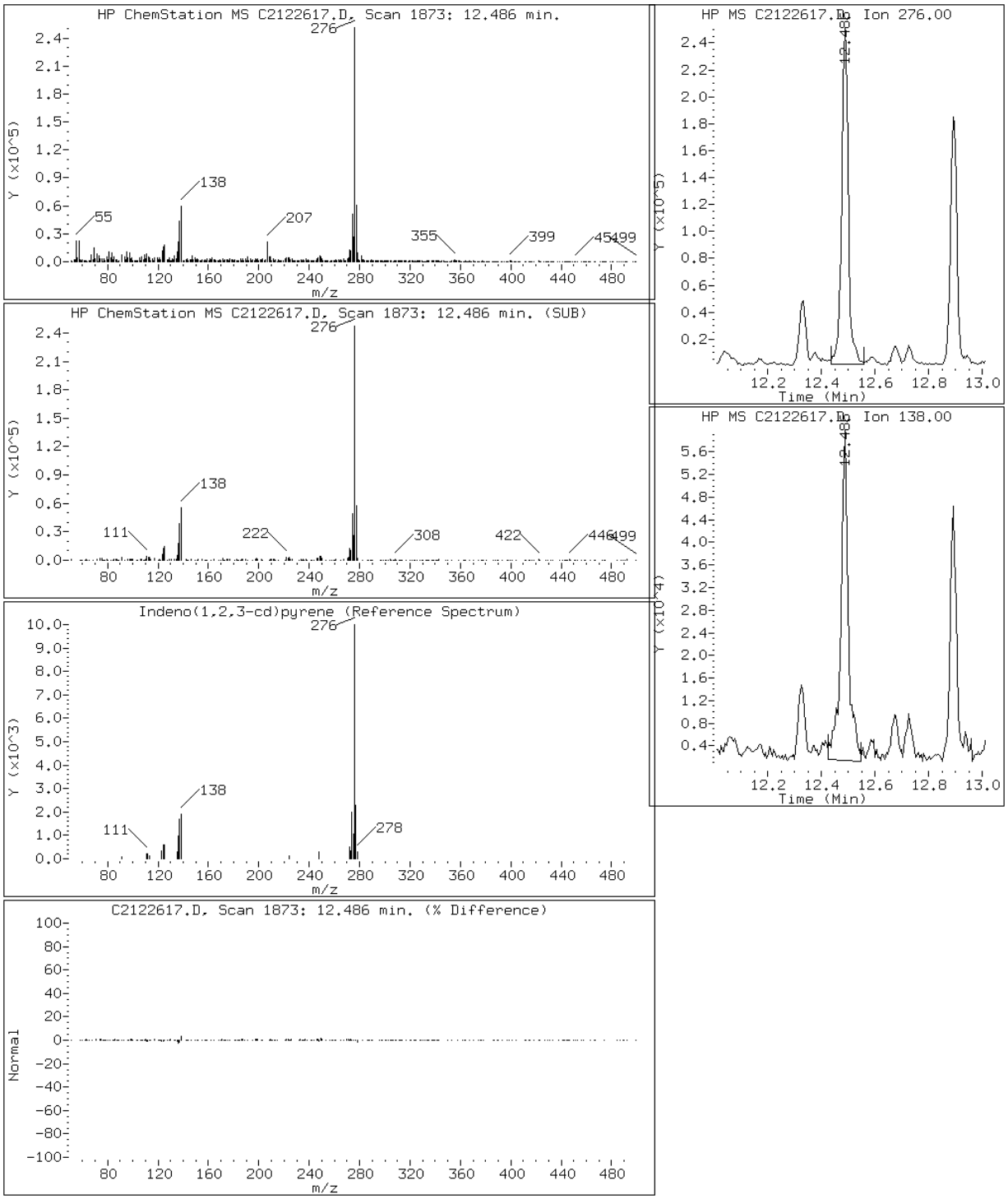
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

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



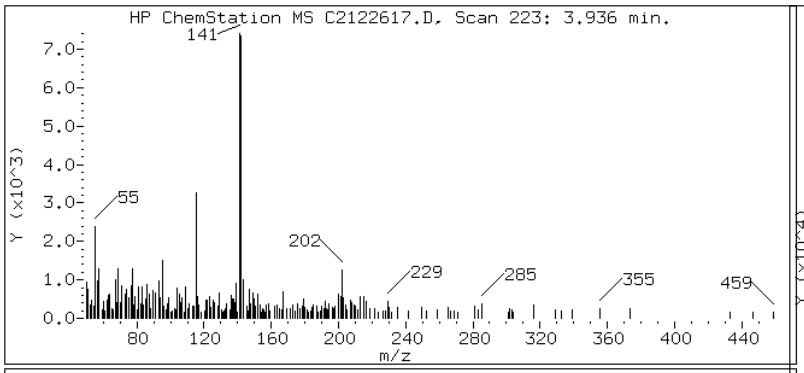
Data File: C2122617.D

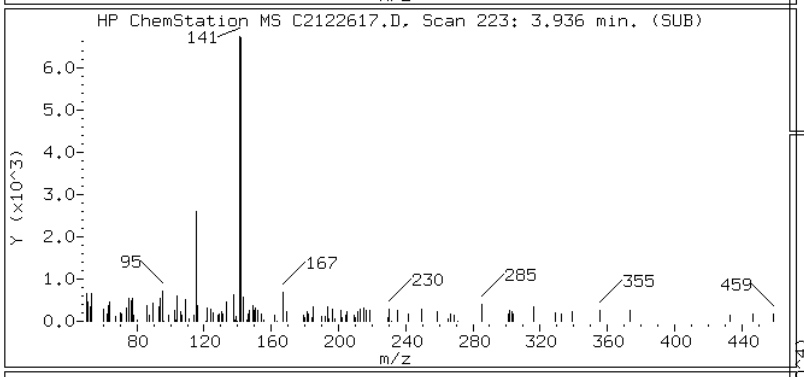
Date: 26-DEC-2012 18:08

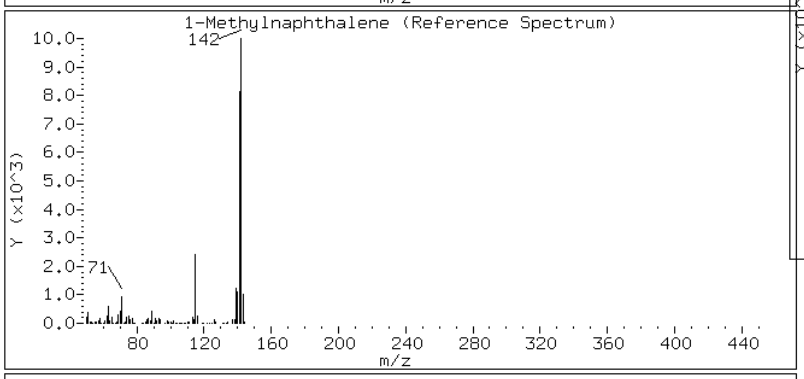
Client ID: CV0511AB-GS Instrument: TSMC5973.i

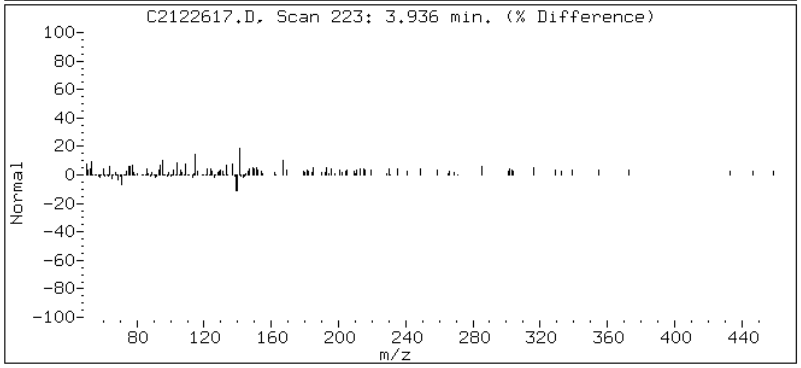
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

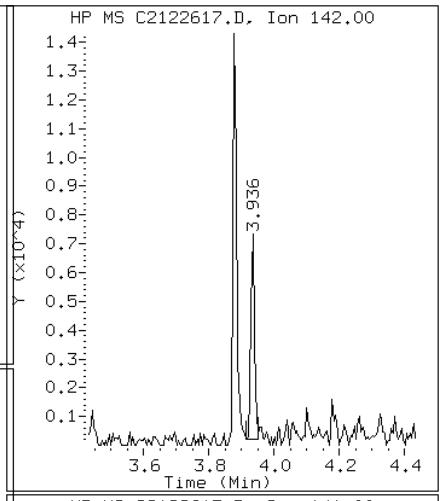
4 1-Methylnaphthalene

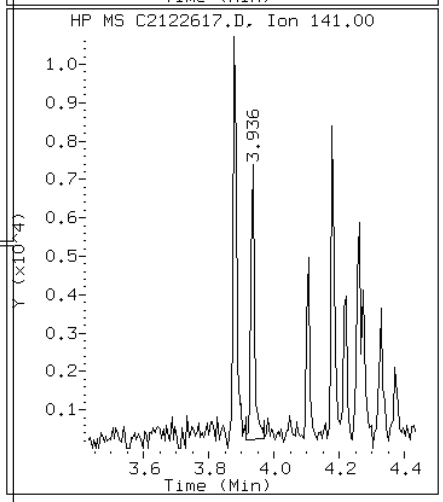












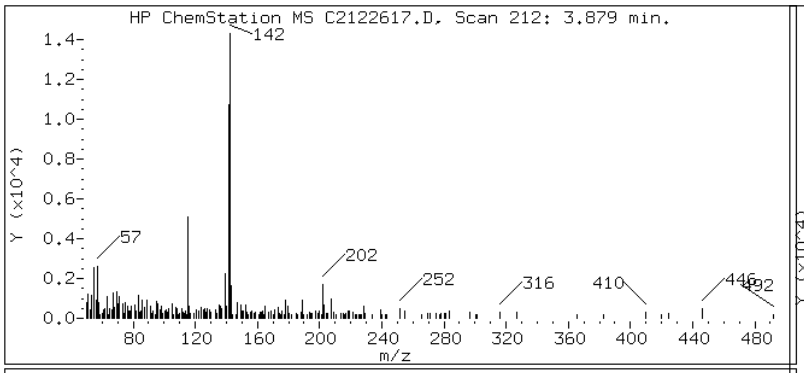
Data File: C2122617.D

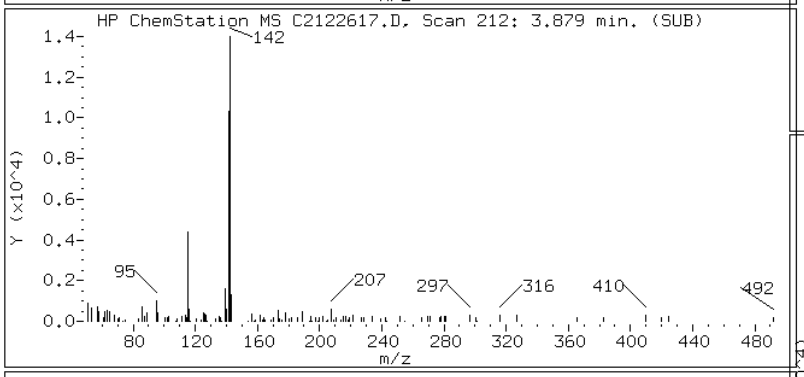
Date: 26-DEC-2012 18:08

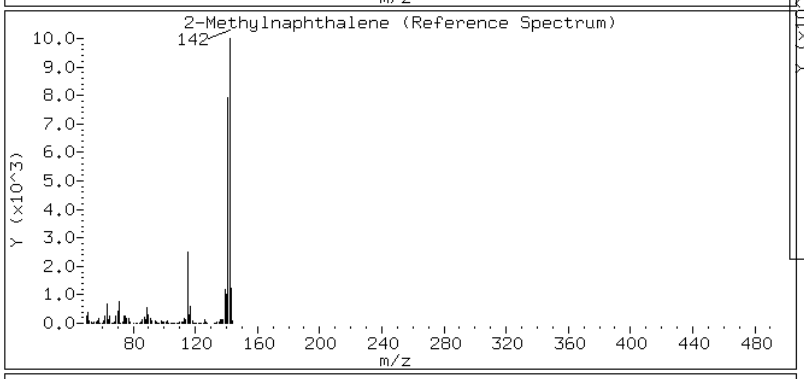
Client ID: CV0511AB-GS Instrument: TSMC5973.i

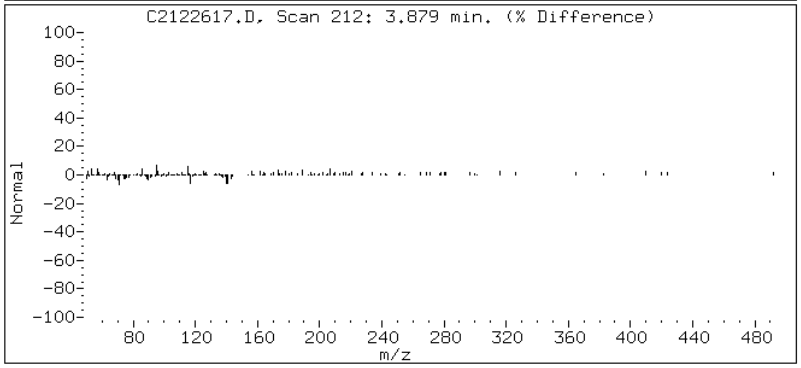
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

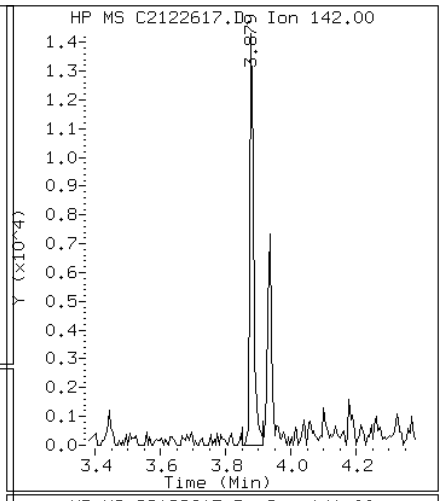
3 2-Methylnaphthalene

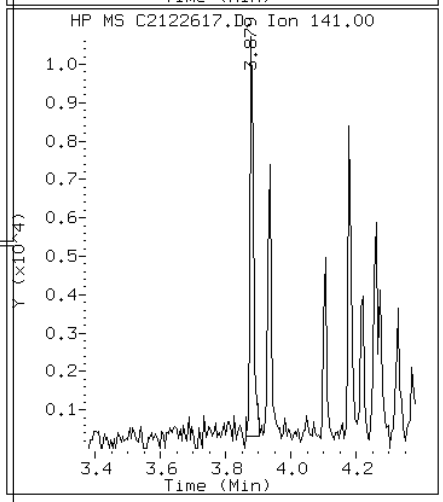












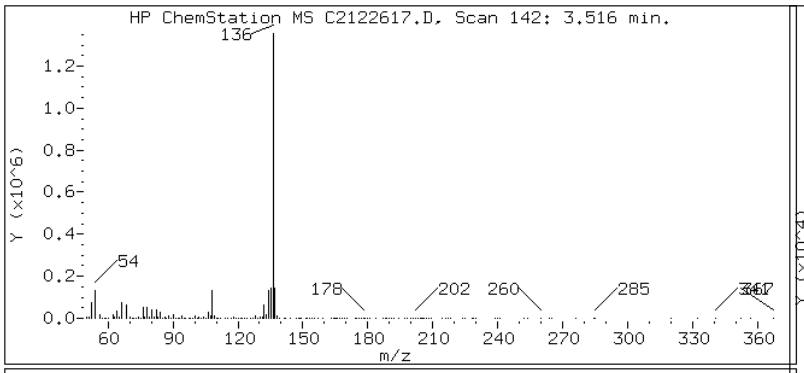
Data File: C2122617.D

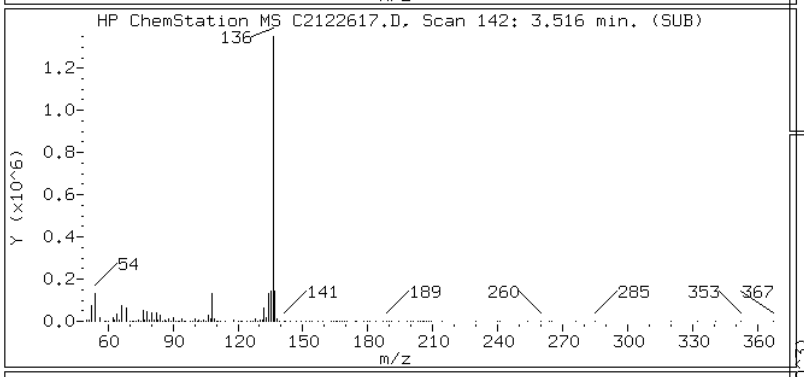
Date: 26-DEC-2012 18:08

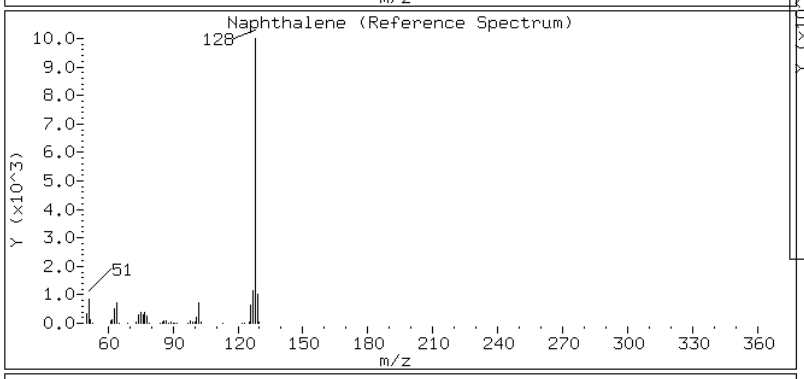
Client ID: CV0511AB-GS Instrument: TSMC5973.i

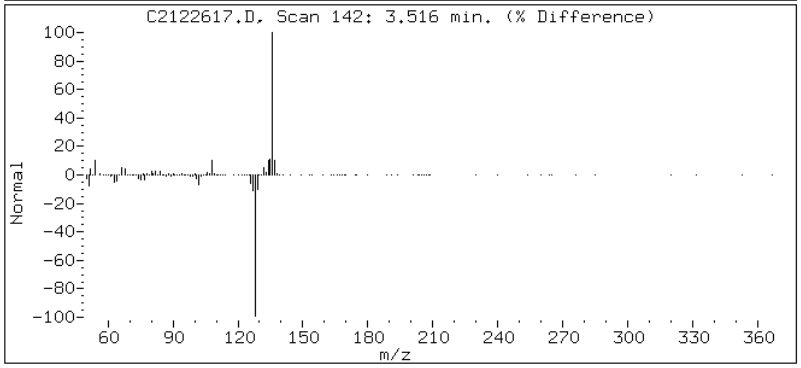
Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

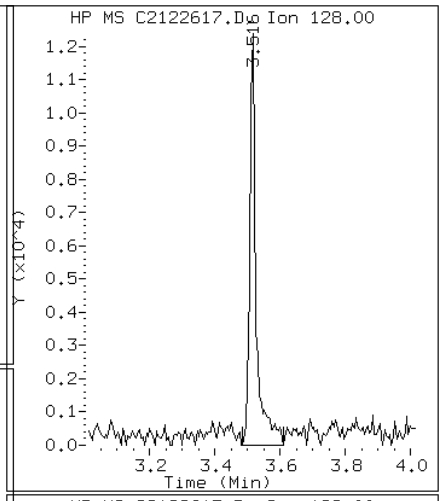
2 Naphthalene

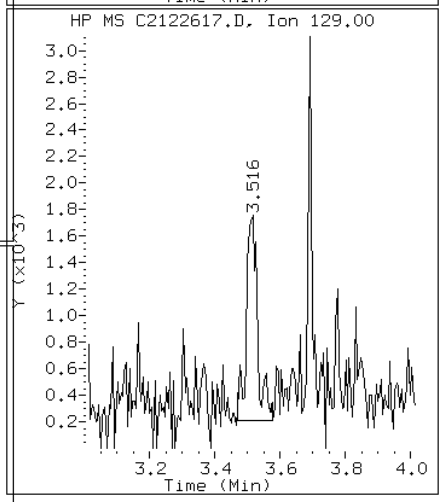












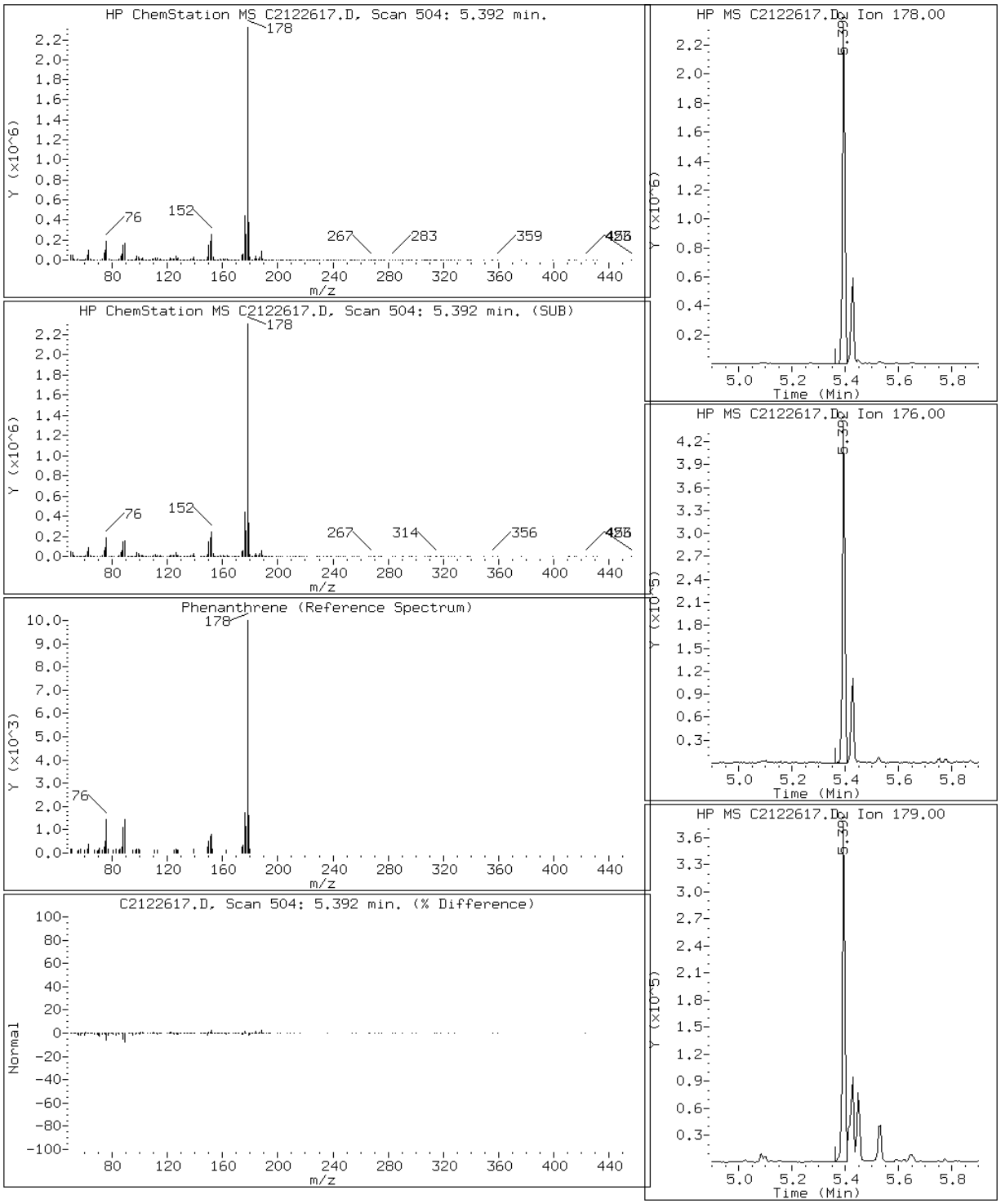
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

10 Phenanthrene



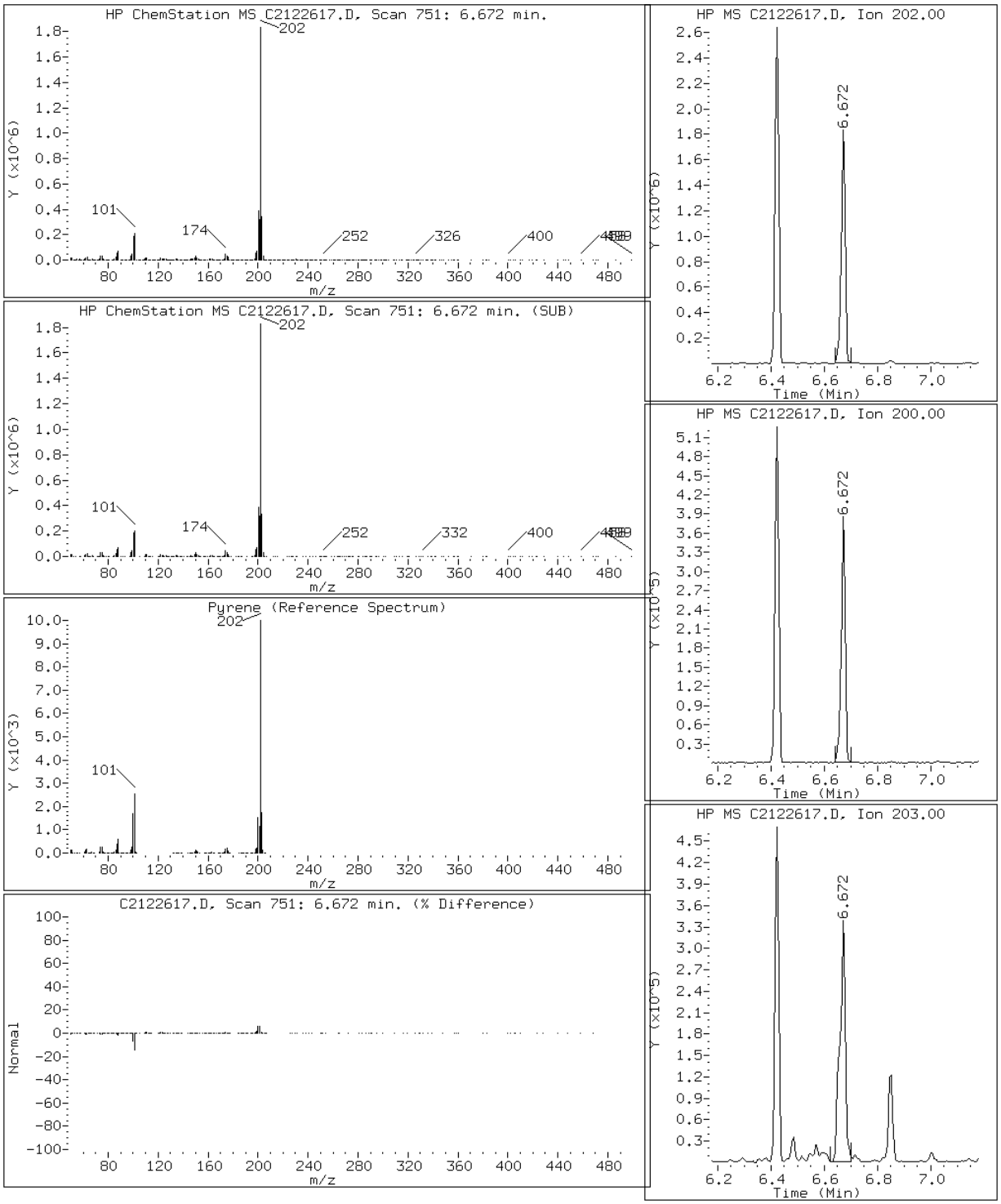
Data File: C2122617.D

Date: 26-DEC-2012 18:08

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-C~98122~1000~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122617.D
Inj. Date and Time: 26-DEC-2012 18:08
Instrument ID: TSMC5973.i
Client ID: CV0511AB-GS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

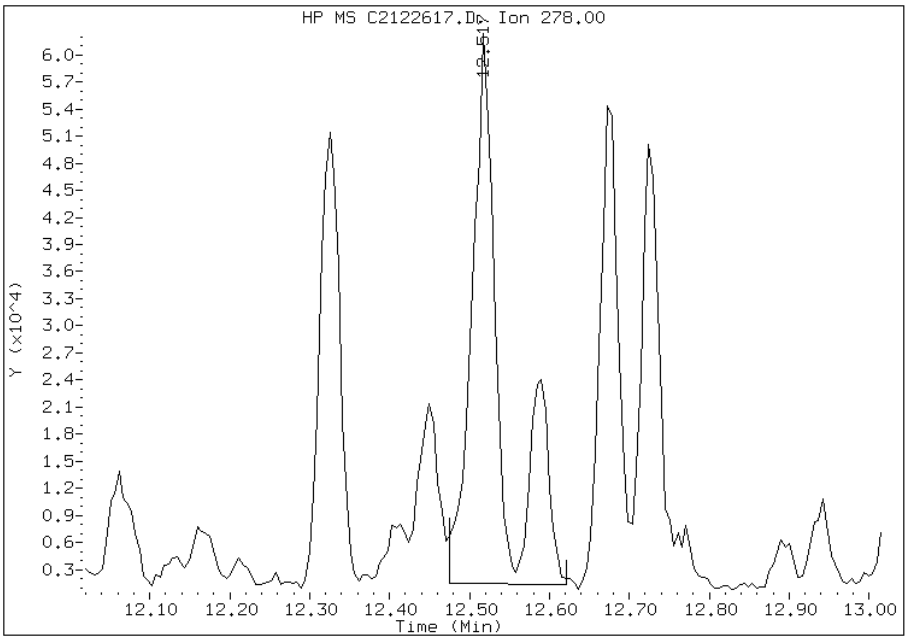
Processing Integration Results

RT: 12.52

Response: 157521

Amount: 1

Conc: 40603



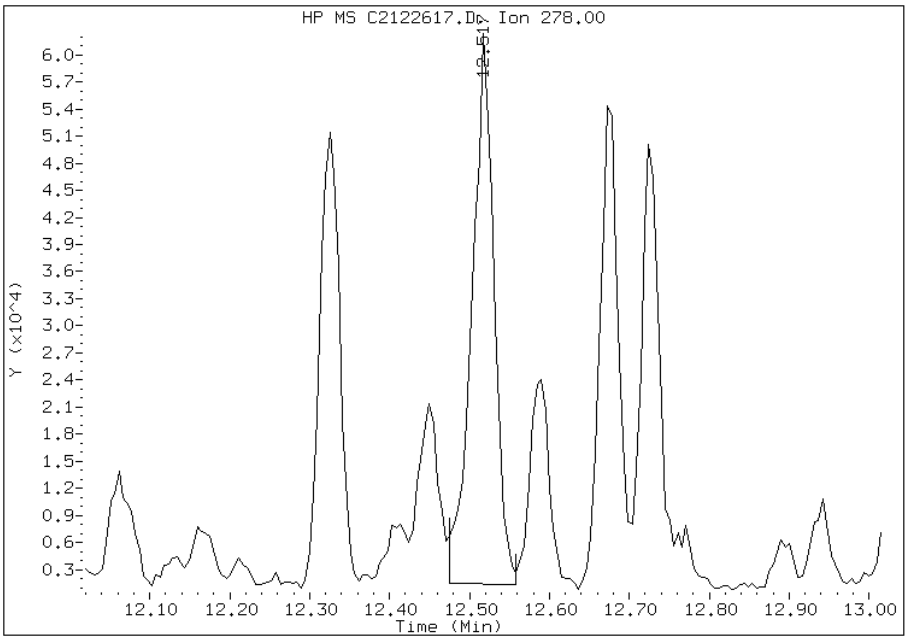
Manual Integration Results

RT: 12.52

Response: 119471

Amount: 1

Conc: 30544



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:26
Manual Integration Reason:

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511A-CS | Lab Sample ID: 680-85785-30

Matrix: Solid | Lab File ID: C2122707.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.12(g) | Date Analyzed: 12/27/2012 09:03

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 50

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

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	3100		430	38
208-96-8	Acenaphthylene	36	J	430	34
120-12-7	Anthracene	5300		430	43
56-55-3	Benzo[a]anthracene	12000		430	40
50-32-8	Benzo[a]pyrene	11000		430	44
205-99-2	Benzo[b]fluoranthene	13000		430	61
191-24-2	Benzo[g,h,i]perylene	6200		430	71
207-08-9	Benzo[k]fluoranthene	6000		430	41
218-01-9	Chrysene	12000		430	49
53-70-3	Dibenz(a,h)anthracene	1900		430	42
206-44-0	Fluoranthene	29000		430	39
86-73-7	Fluorene	2400		430	34
193-39-5	Indeno[1,2,3-cd]pyrene	7100		430	71
90-12-0	1-Methylnaphthalene	96	J	430	34
91-57-6	2-Methylnaphthalene	110	J	430	34
91-20-3	Naphthalene	150	J	430	34
85-01-8	Phenanthrene	24000		430	29
129-00-0	Pyrene	22000		430	34

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122707.D
Lab Smp Id: 680-85785-A-30-A Client Smp ID: CV0511A-CS
Inj Date : 27-DEC-2012 09:03
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-30-A~98122~50~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 1
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	50.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.120	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	Compound Not Detected.						BELOW RL
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5754857	40.0000		
2 Naphthalene	128	3.500	3.500	(1.004)	9775	0.06950	120(a)	
3 2-Methylnaphthalene	142	3.868	3.863	(1.110)	5374	0.05035	84(a)	
4 1-Methylnaphthalene	142	3.919	3.920	(1.125)	4646	0.04438	74(a)	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3313257	40.0000		
6 Acenaphthylene	152	4.365	4.365	(0.983)	2961	0.01663	28(a)	
7 Acenaphthene	154	4.458	4.459	(1.003)	132211	1.41939	2400	
8 Fluorene	166	4.749	4.754	(1.069)	136894	1.10092	1800	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5369069	40.0000		
10 Phenanthrene	178	5.370	5.376	(1.003)	1628604	10.9173	18000	
11 Anthracene	178	5.407	5.412	(1.010)	399442	2.47258	4100	
$ 12 o-Terphenyl	230	Compound Not Detected.						BELOW RL
13 Fluoranthene	202	6.397	6.402	(1.195)	2702885	13.4979	22000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	5475563	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2124271	10.3553	17000	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	1032465	5.50503	9100	
17 Chrysene	228	8.324	8.330	(1.004)	872225	5.37824	8900	
* 18 Perylene-d12	264	10.729	10.734	(1.000)	6163390	40.0000		
19 Benzo(b)fluoranthene	252	10.050	10.061	(0.937)	1196253	6.09270	10000	
20 Benzo(k)fluoranthene	252	10.091	10.107	(0.941)	525646	2.75416	4600	
21 Benzo(a)pyrene	252	10.599	10.610	(0.988)	884206	5.07284	8400	
22 Indeno(1,2,3-cd)pyrene	276	12.444	12.460	(1.160)	611138	3.28323	5400	
23 Dibenzo(a,h)anthracene	278	12.475	12.501	(1.163)	158213	0.87381	1400(M)	SP
24 Benzo(g,h,i)perylene	276	12.848	12.869	(1.198)	526164	2.87186	4800	

QC Flag Legend

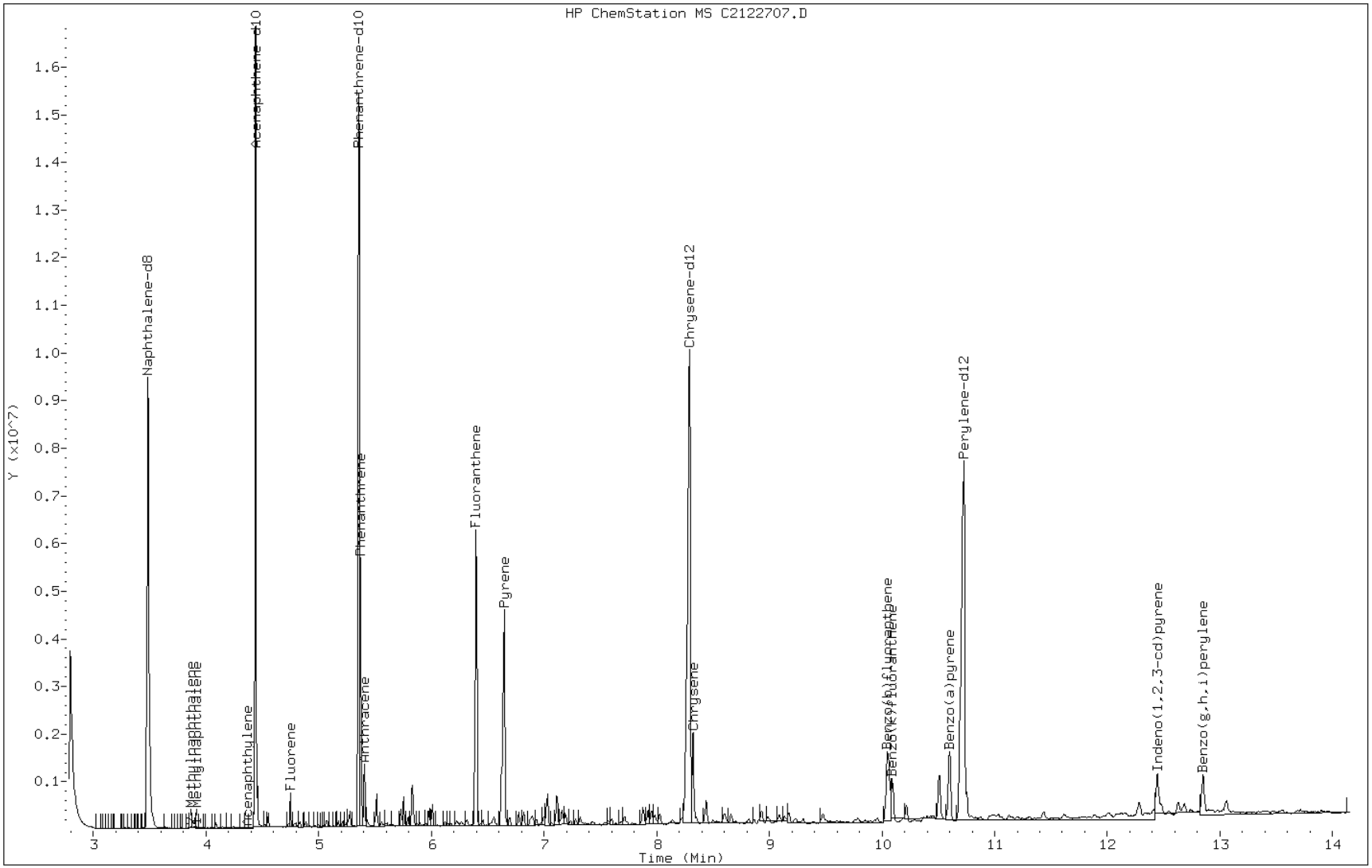
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122707.D

Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW



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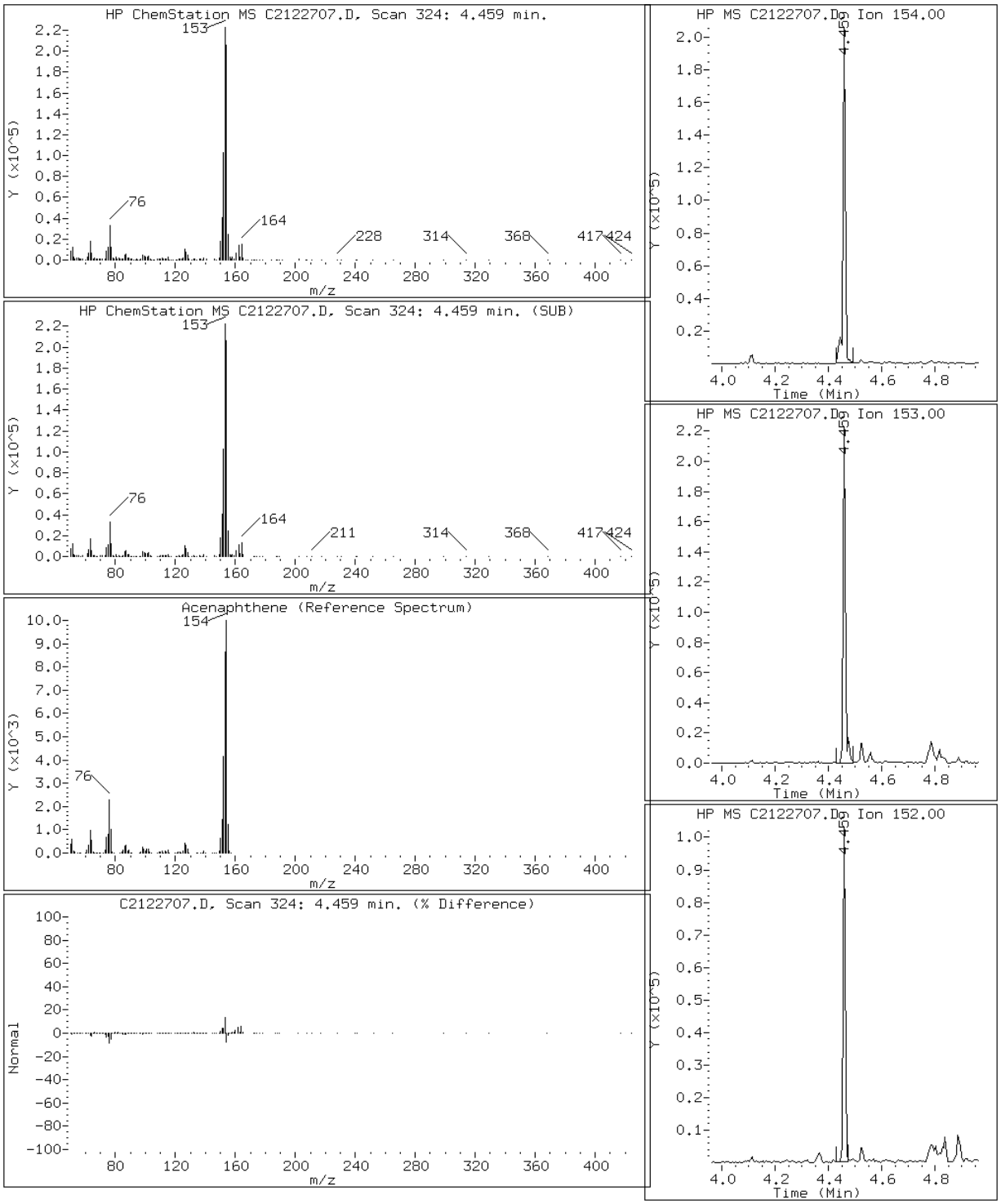
7 Acenaphthene



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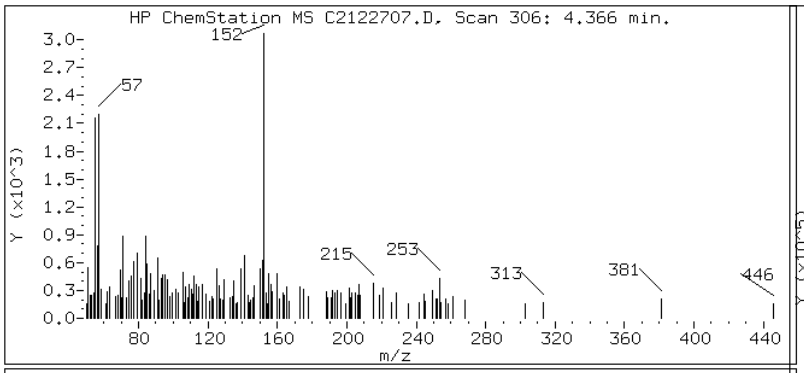
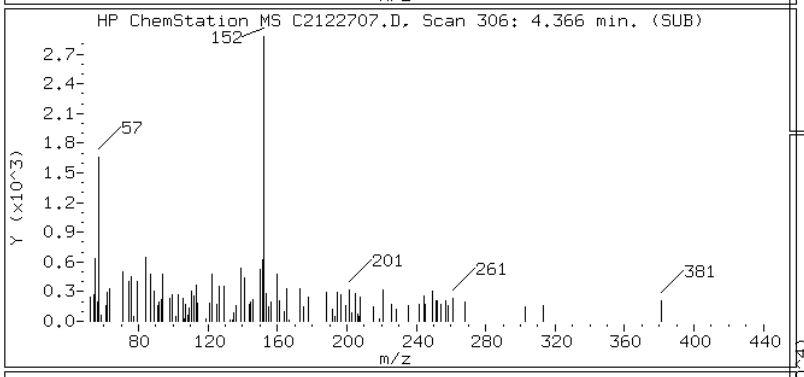
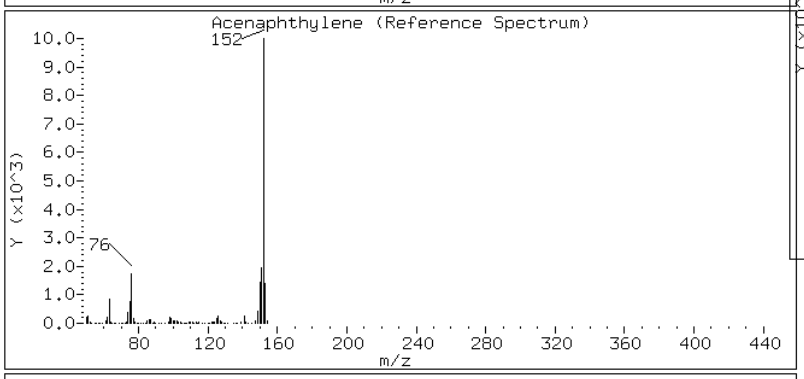
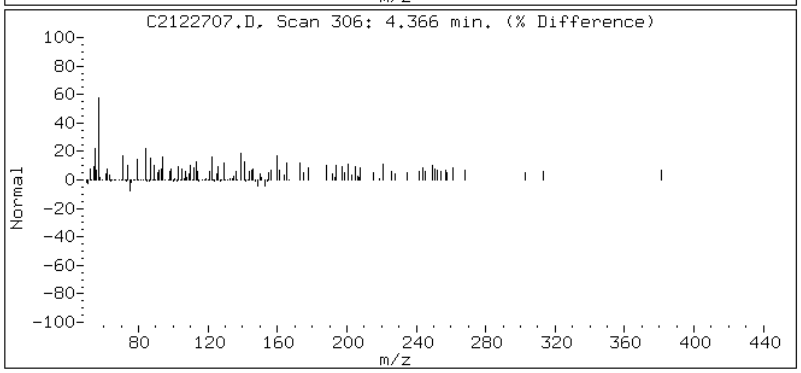
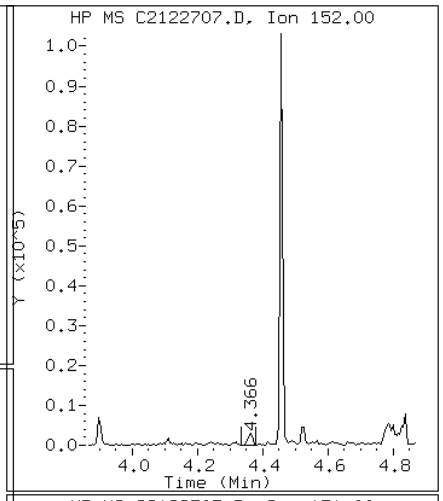
6 Acenaphthylene

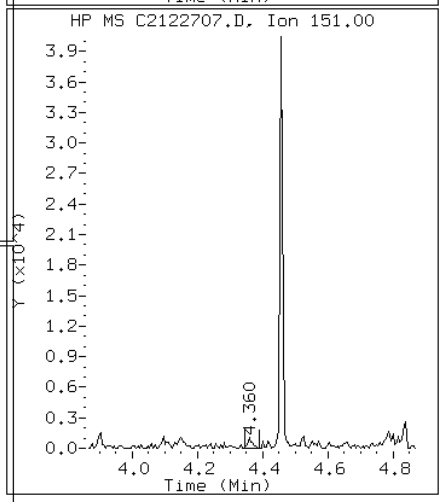












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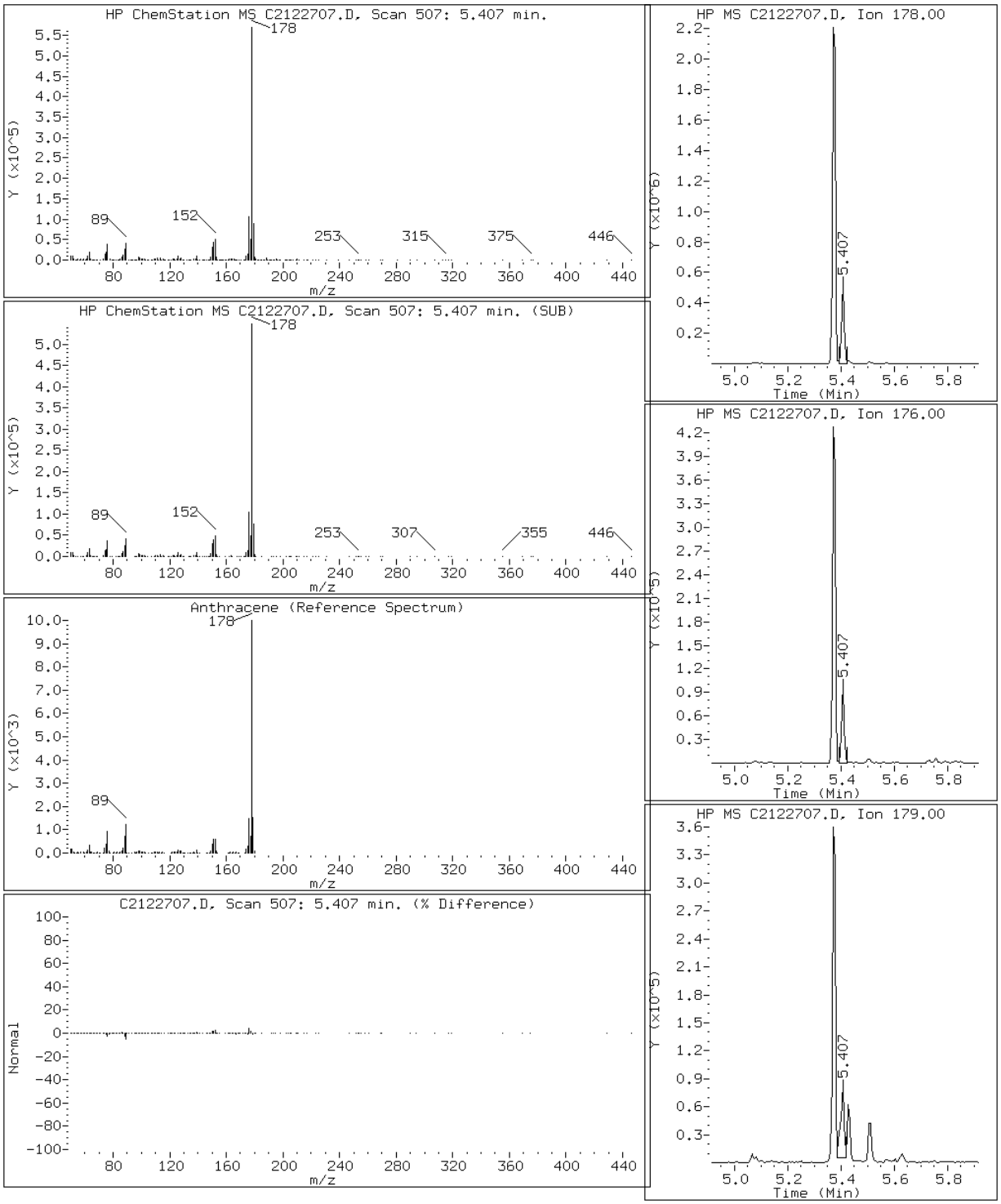
11 Anthracene



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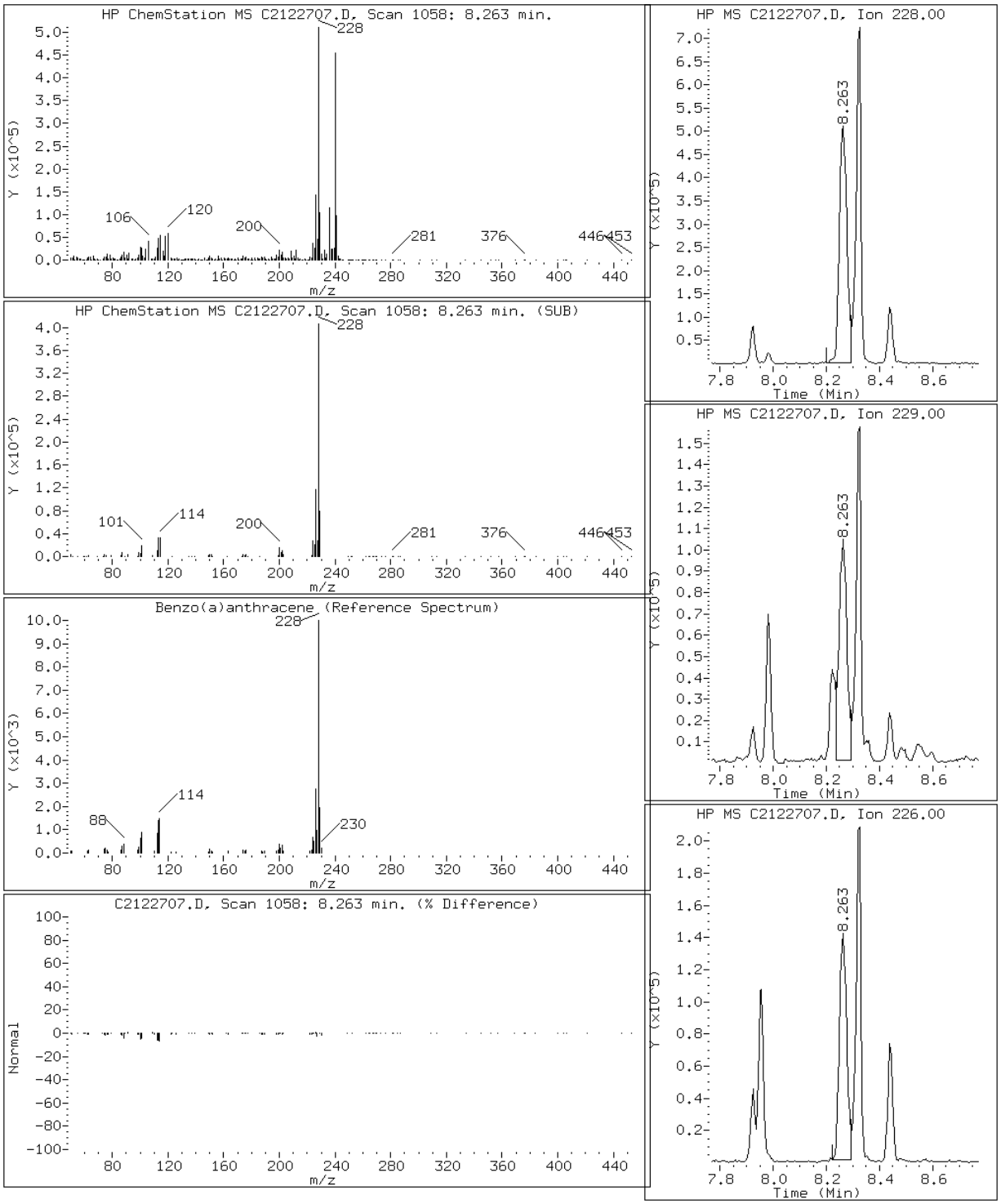
16 Benzo(a)anthracene



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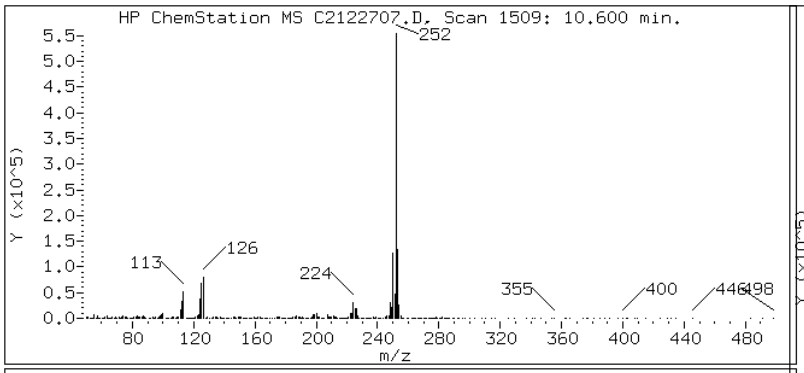
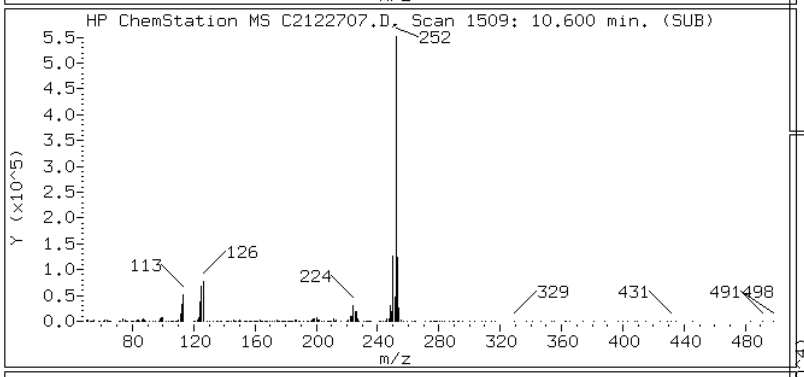
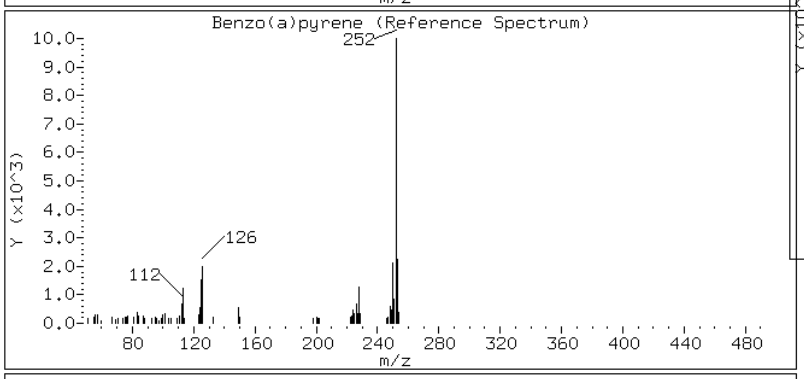
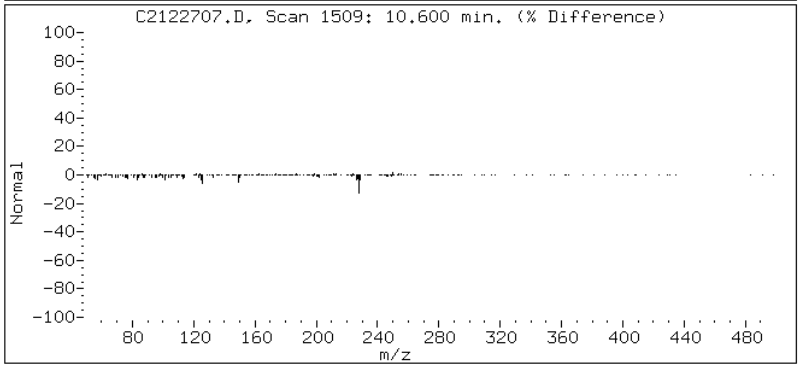
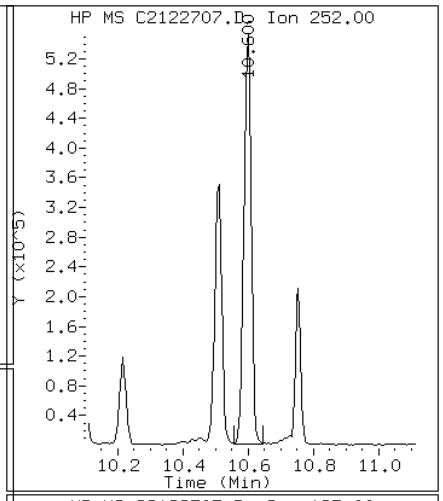
21 Benzo(a)pyrene

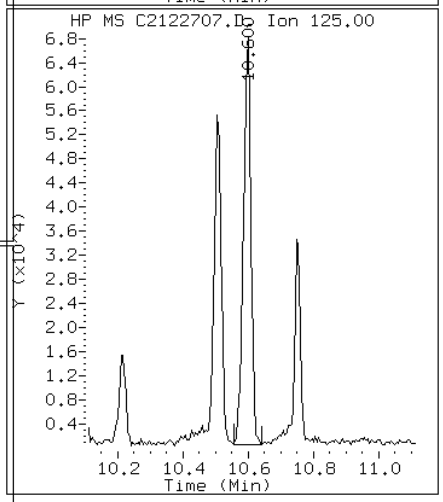












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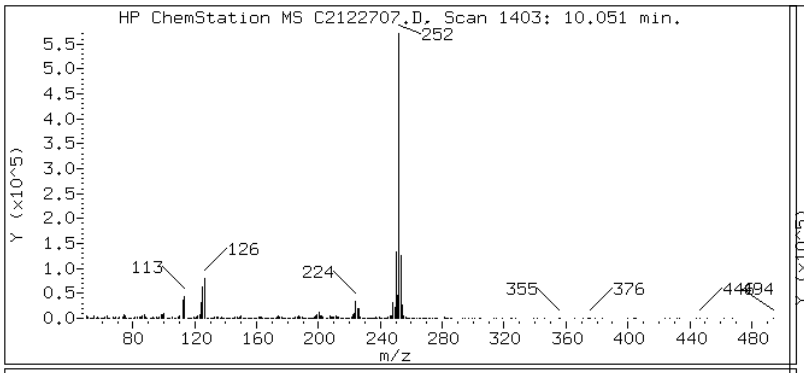
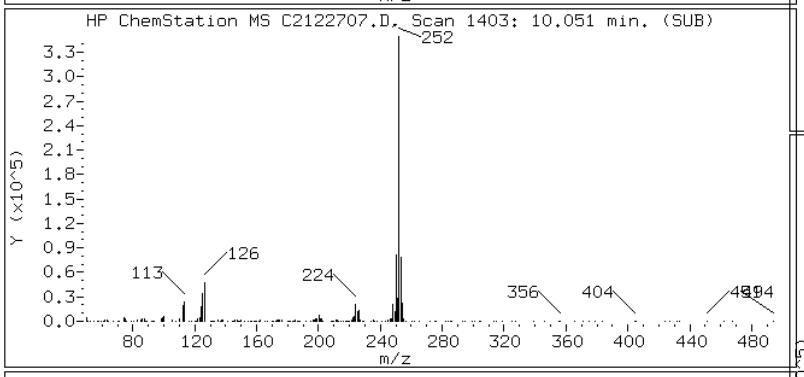
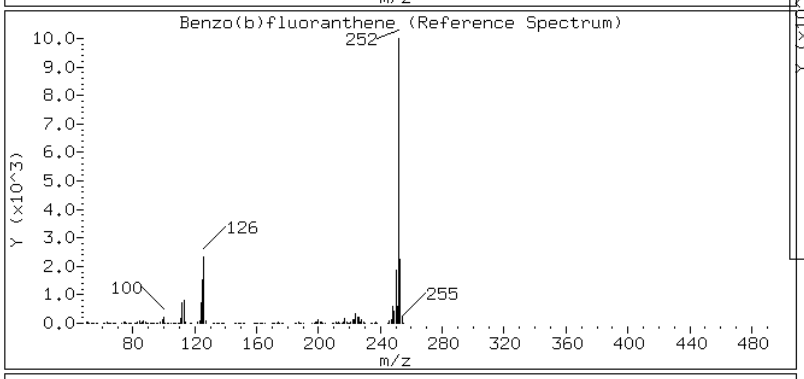
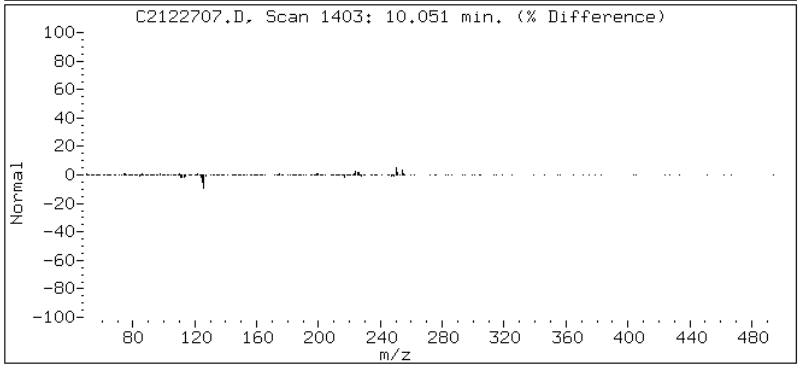
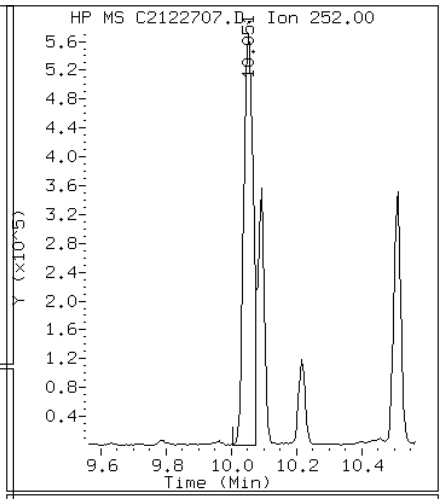
19 Benzo(b)fluoranthene

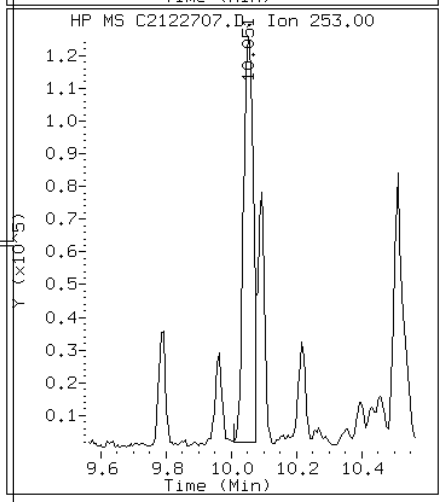












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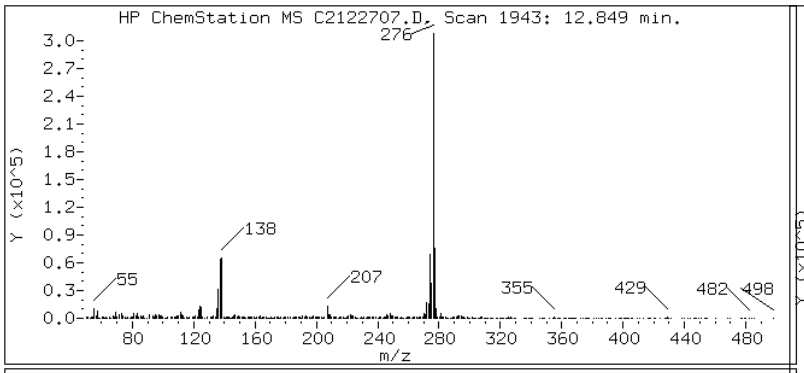
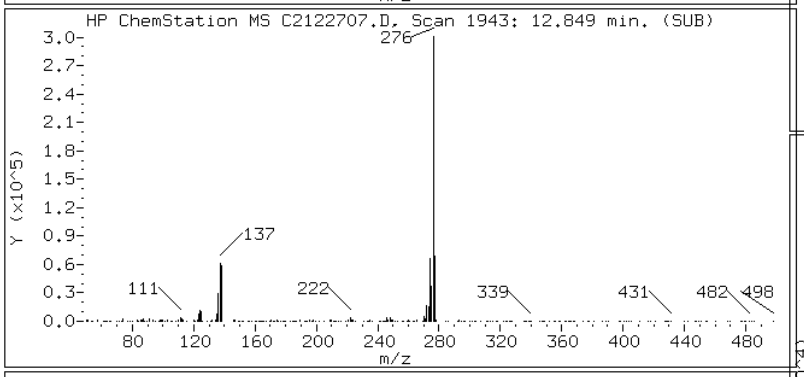
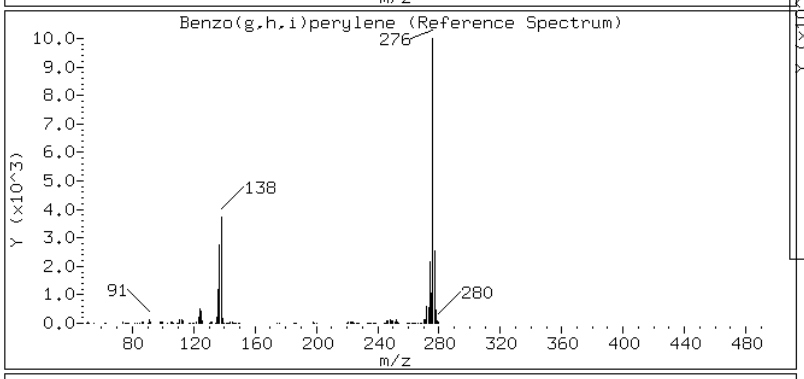
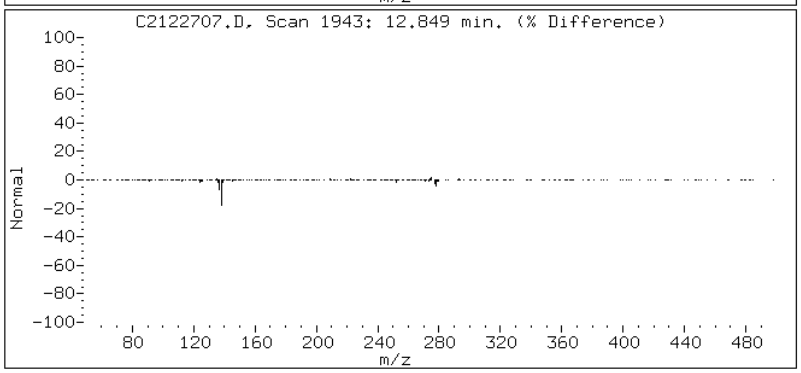
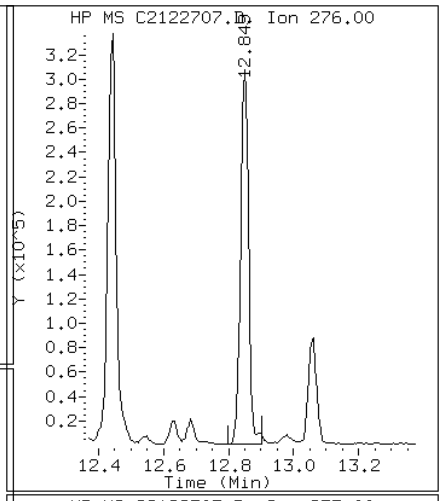
24 Benzo(g,h,i)perylene

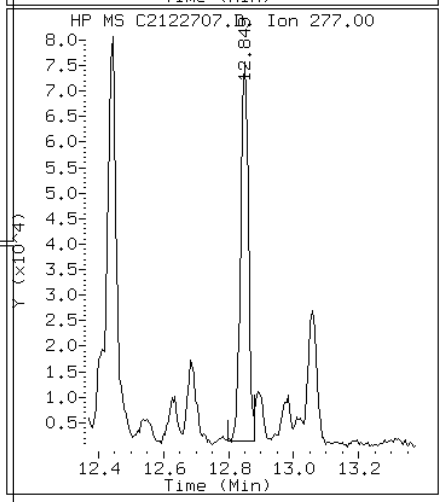












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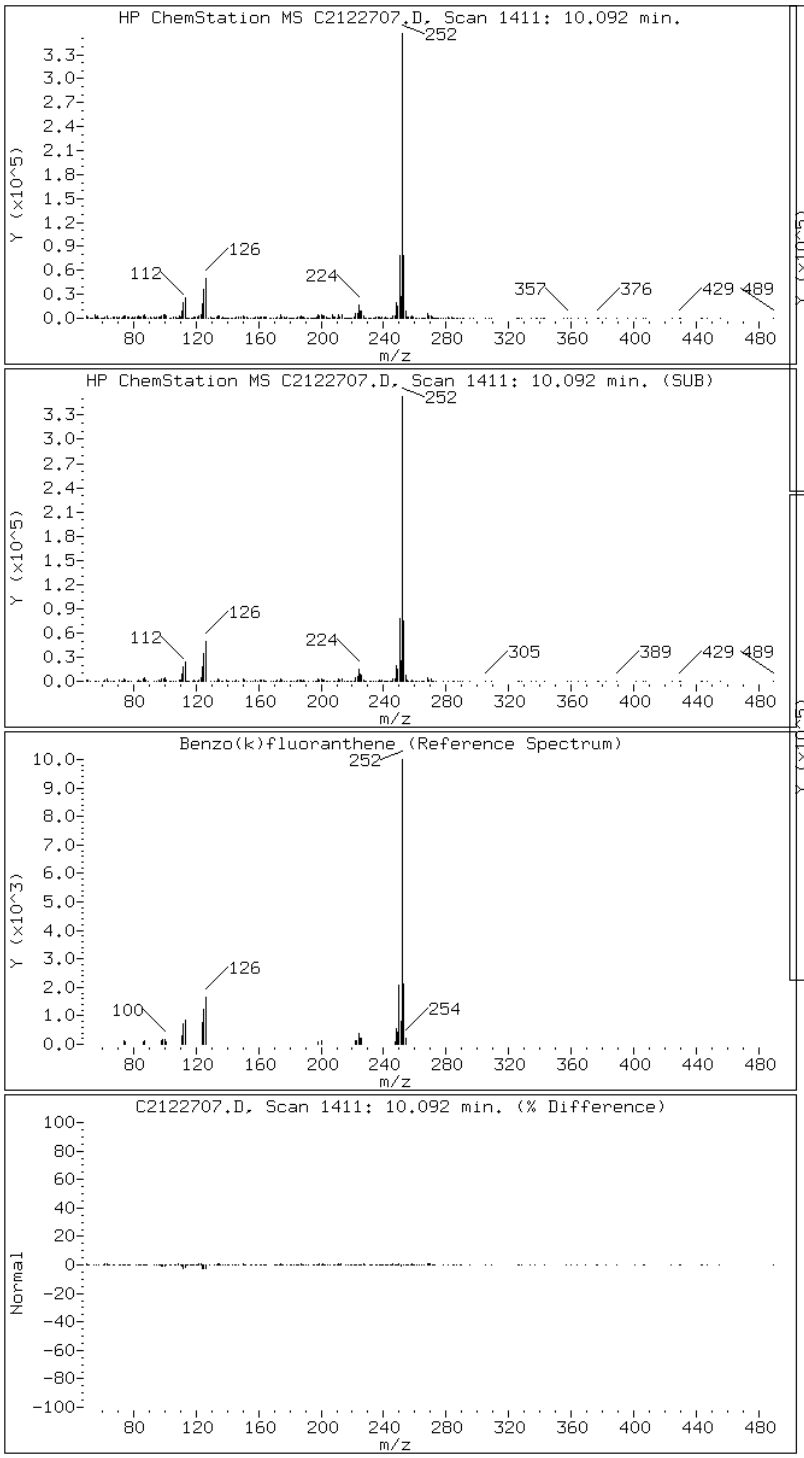
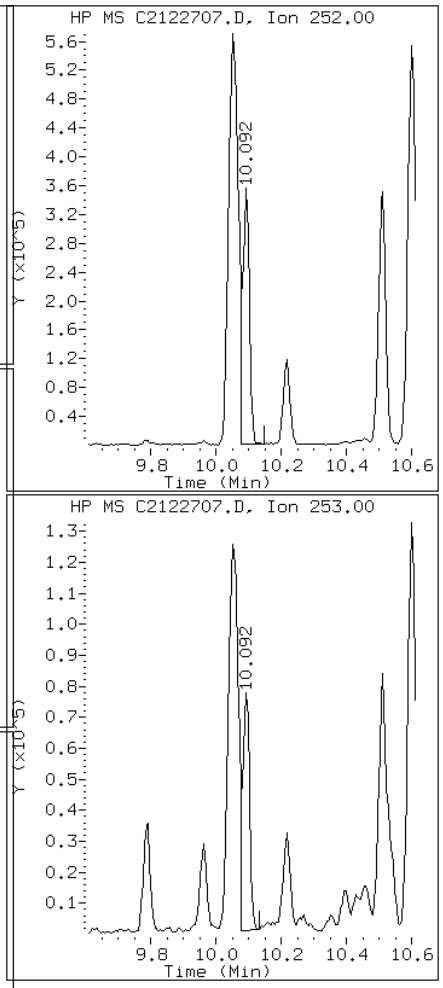
20 Benzo(k)fluoranthene





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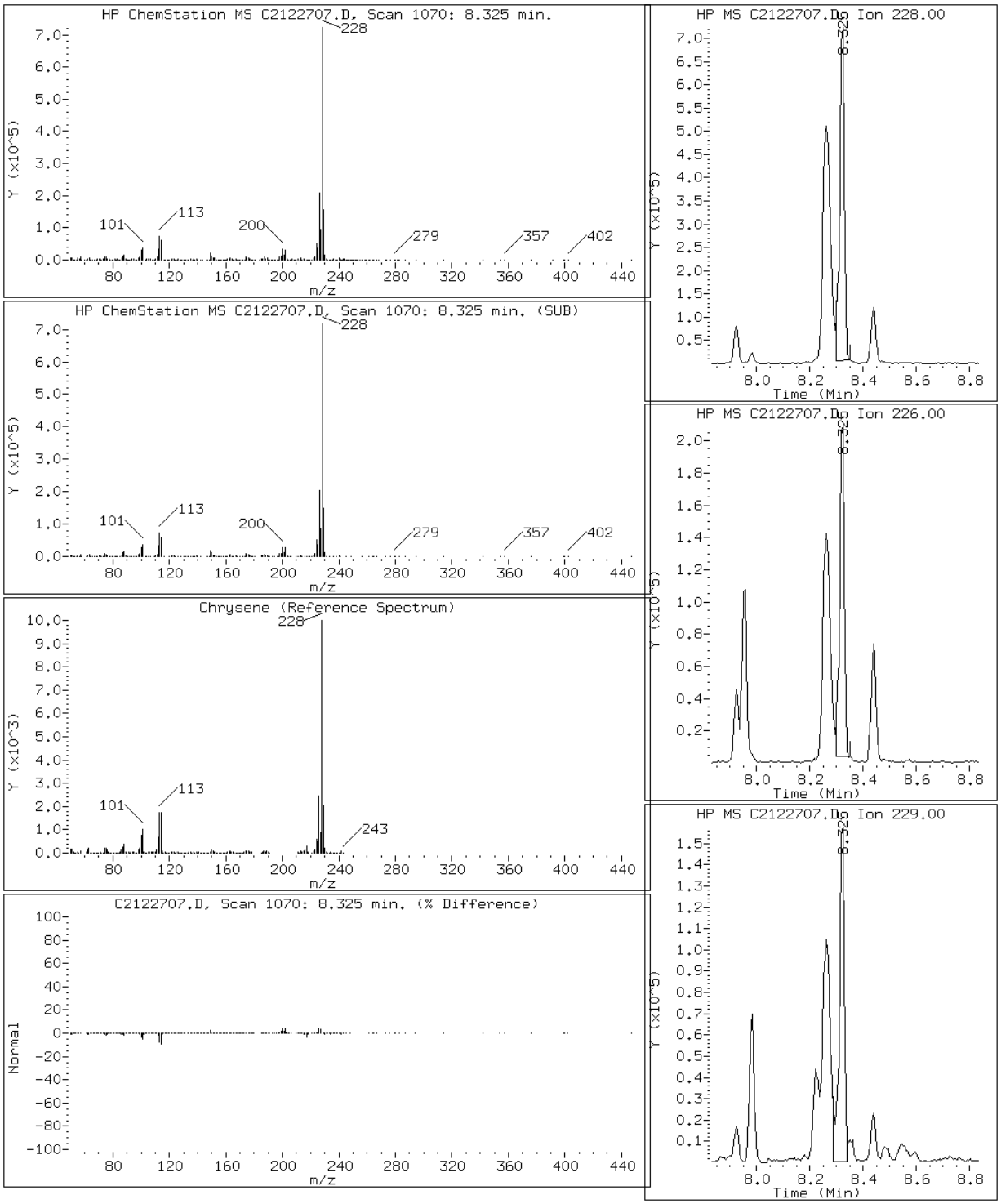
17 Chrysene



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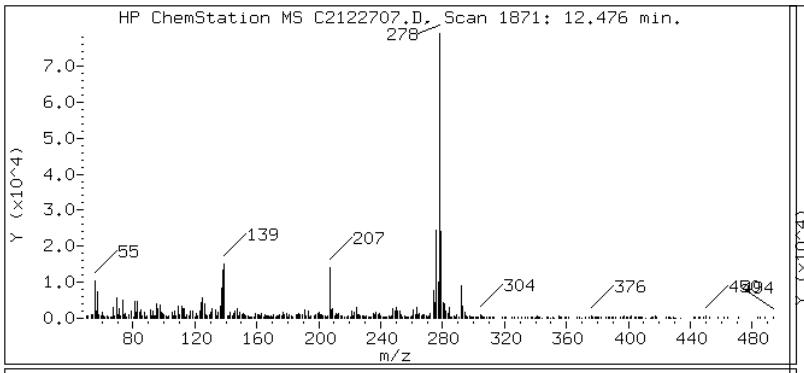
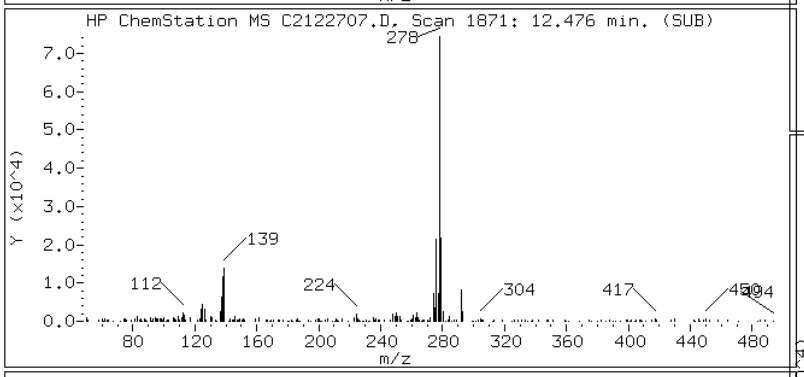
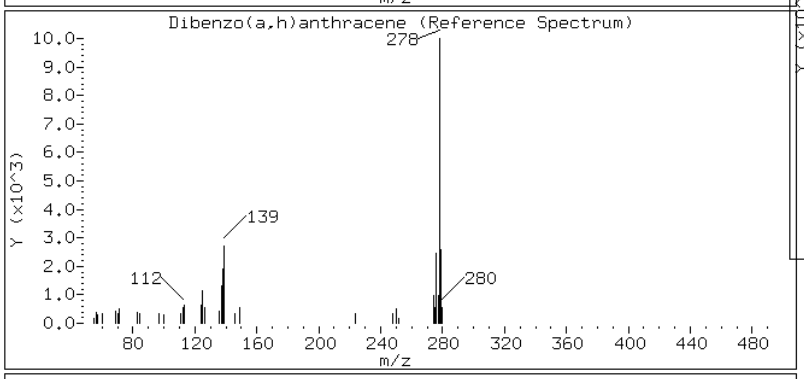
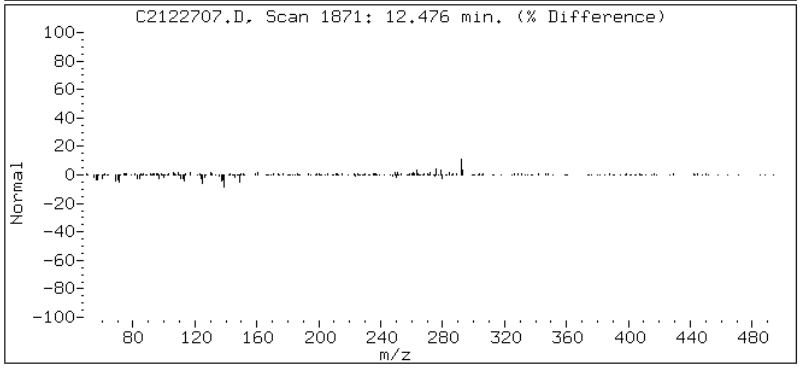
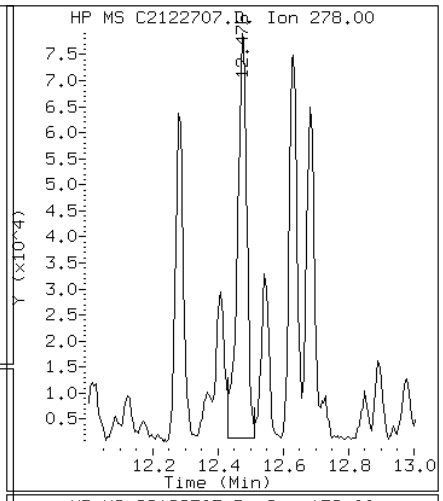
23 Dibenzo(a,h)anthracene

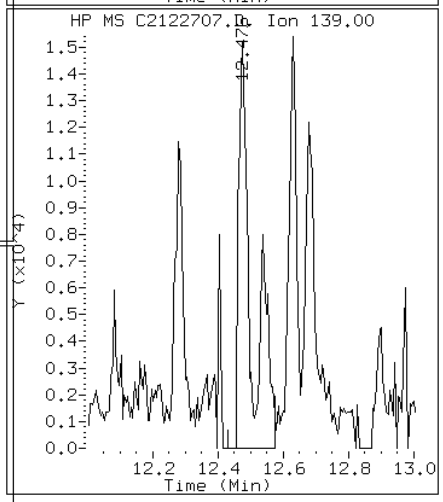












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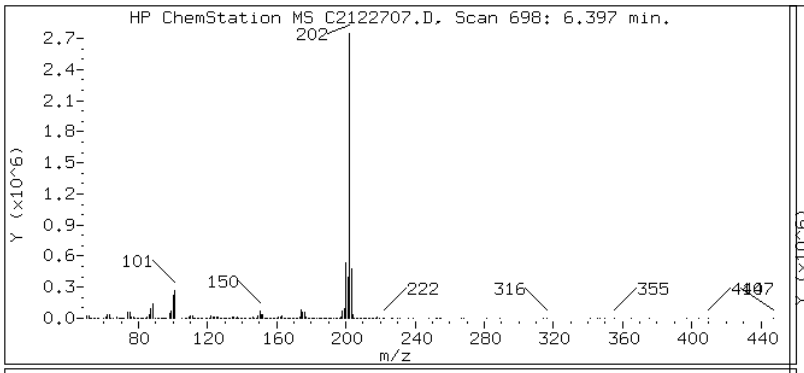
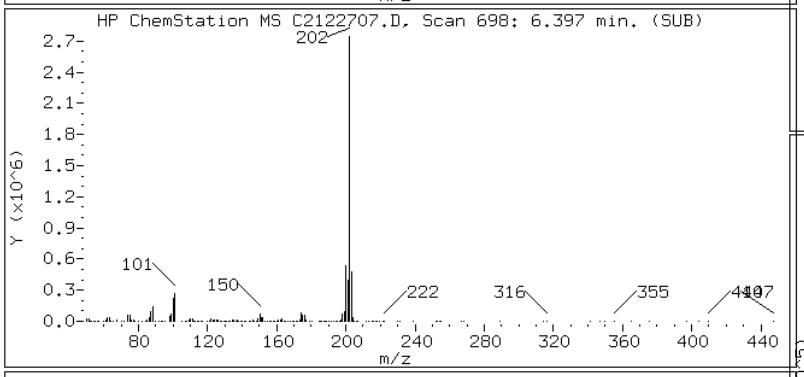
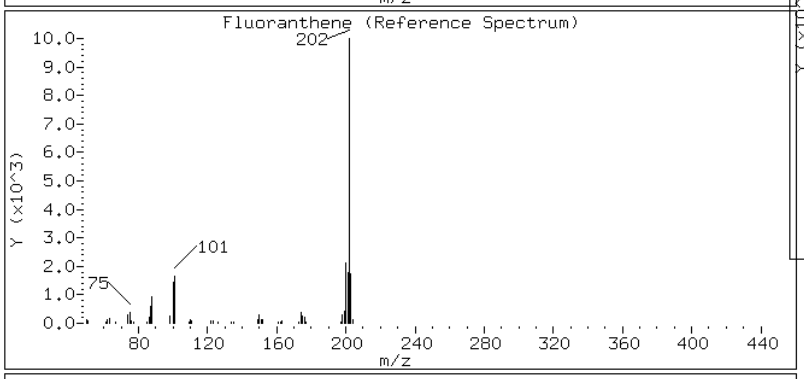
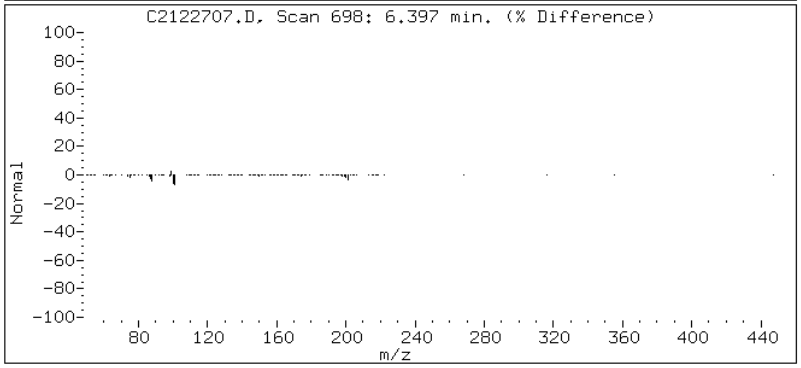
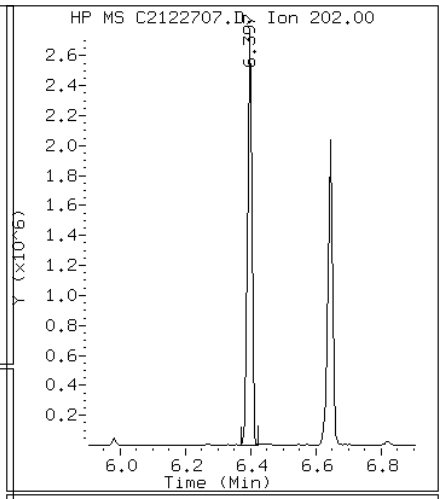
13 Fluoranthene

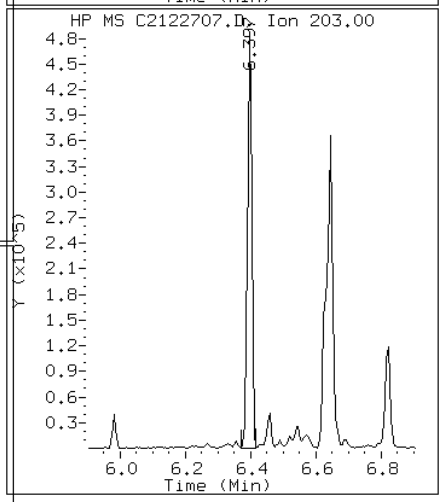












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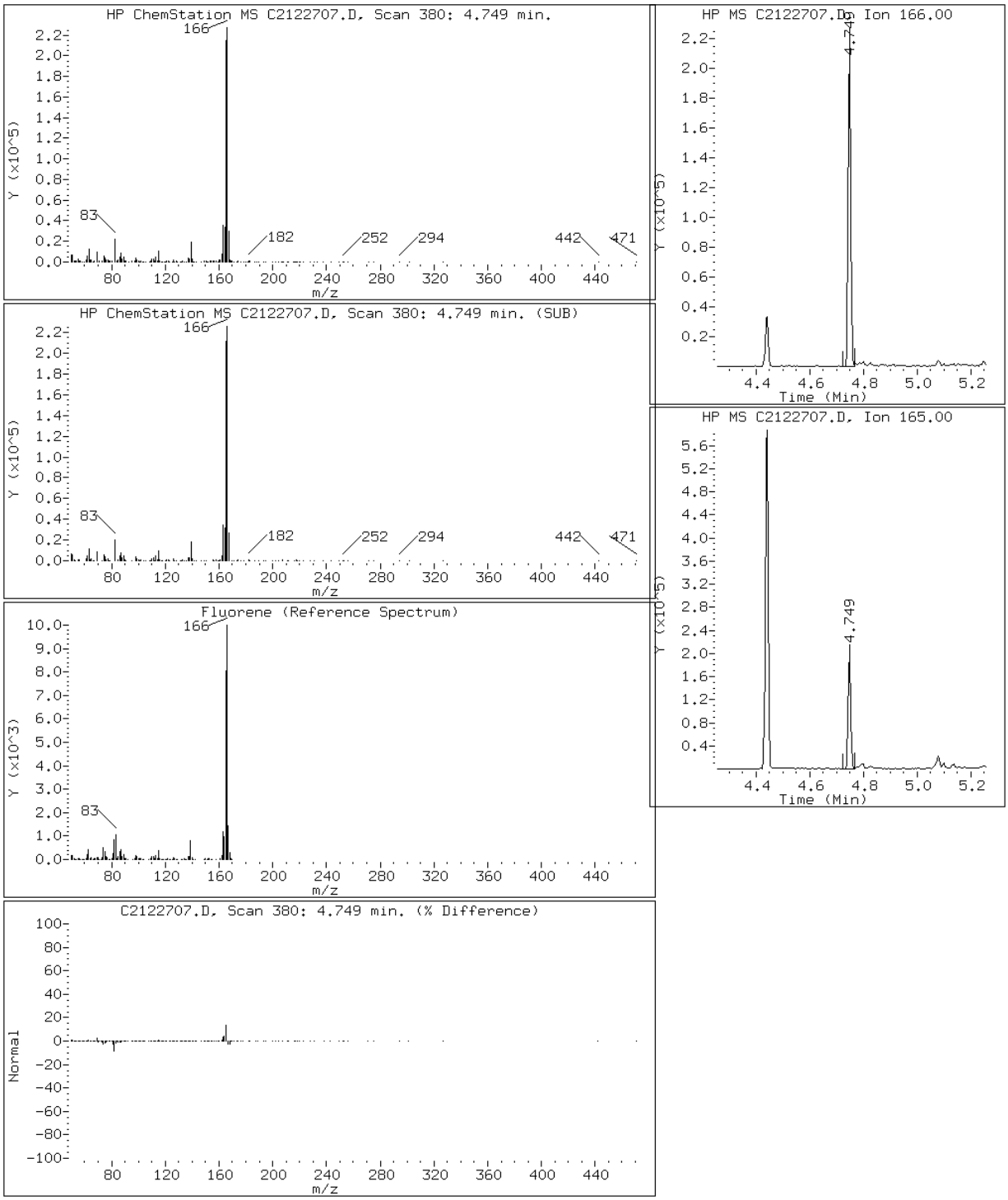
Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

8 Fluorene



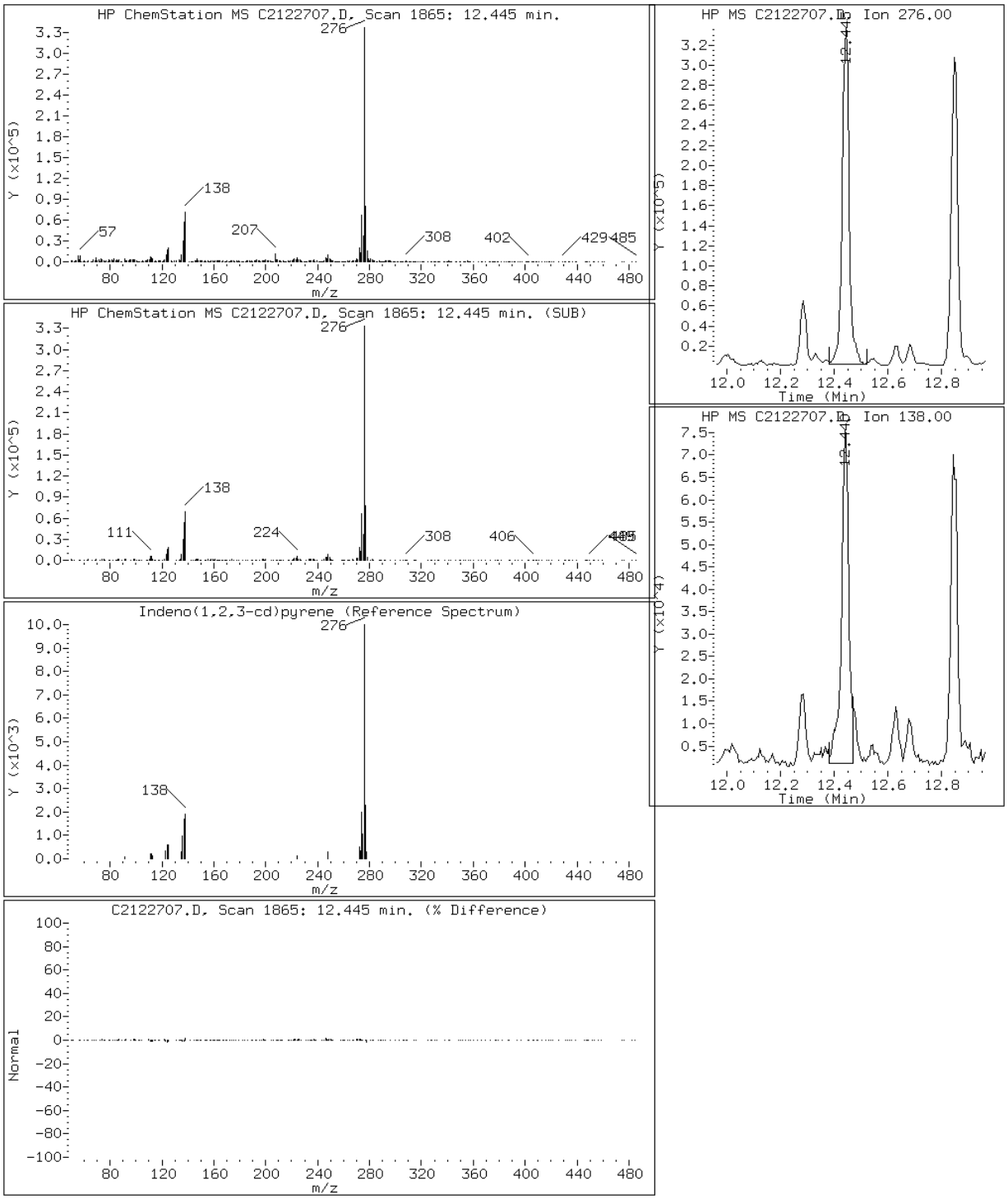
Data File: C2122707.D

Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

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



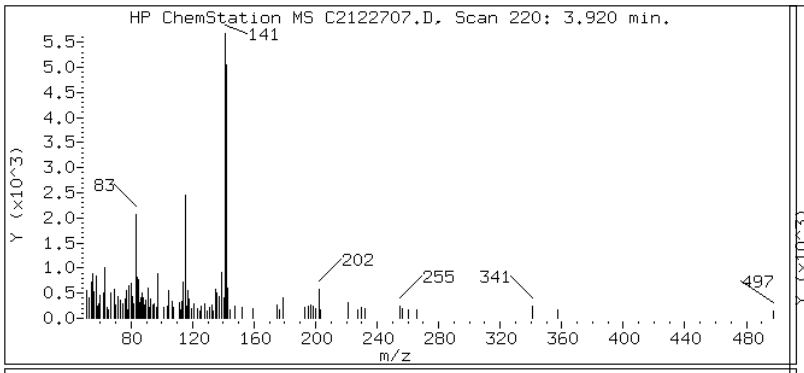
Data File: C2122707.D

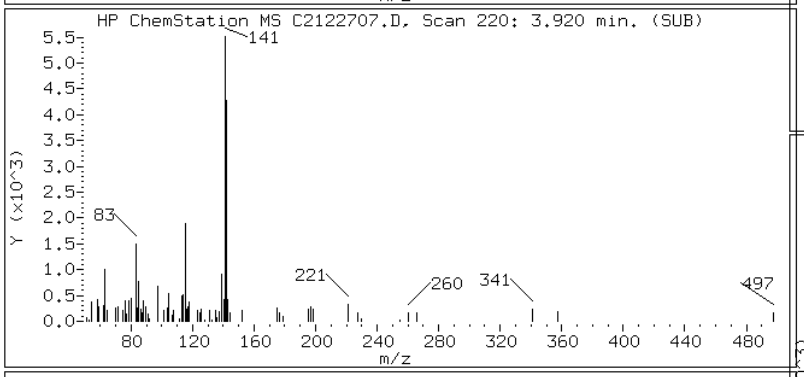
Date: 27-DEC-2012 09:03

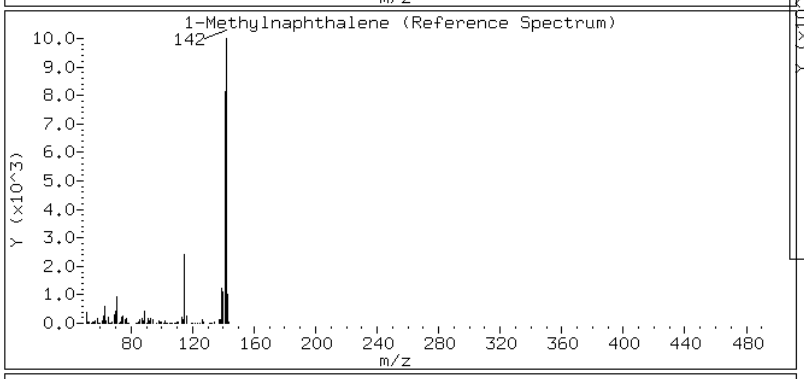
Client ID: CV0511A-CS Instrument: TSMC5973.i

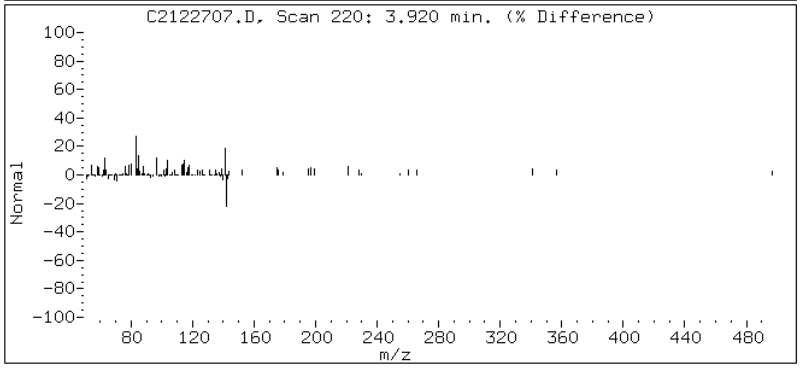
Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

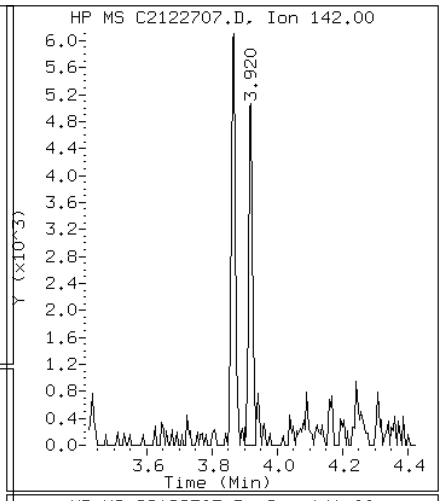
4 1-Methylnaphthalene

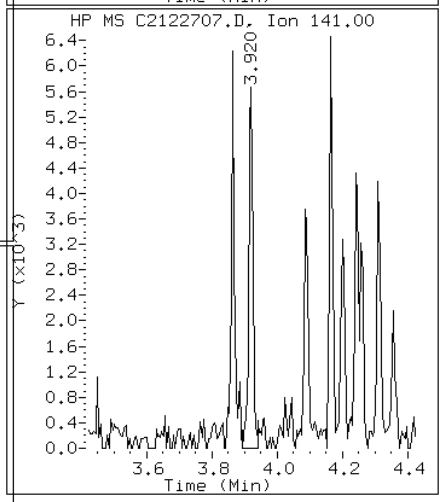












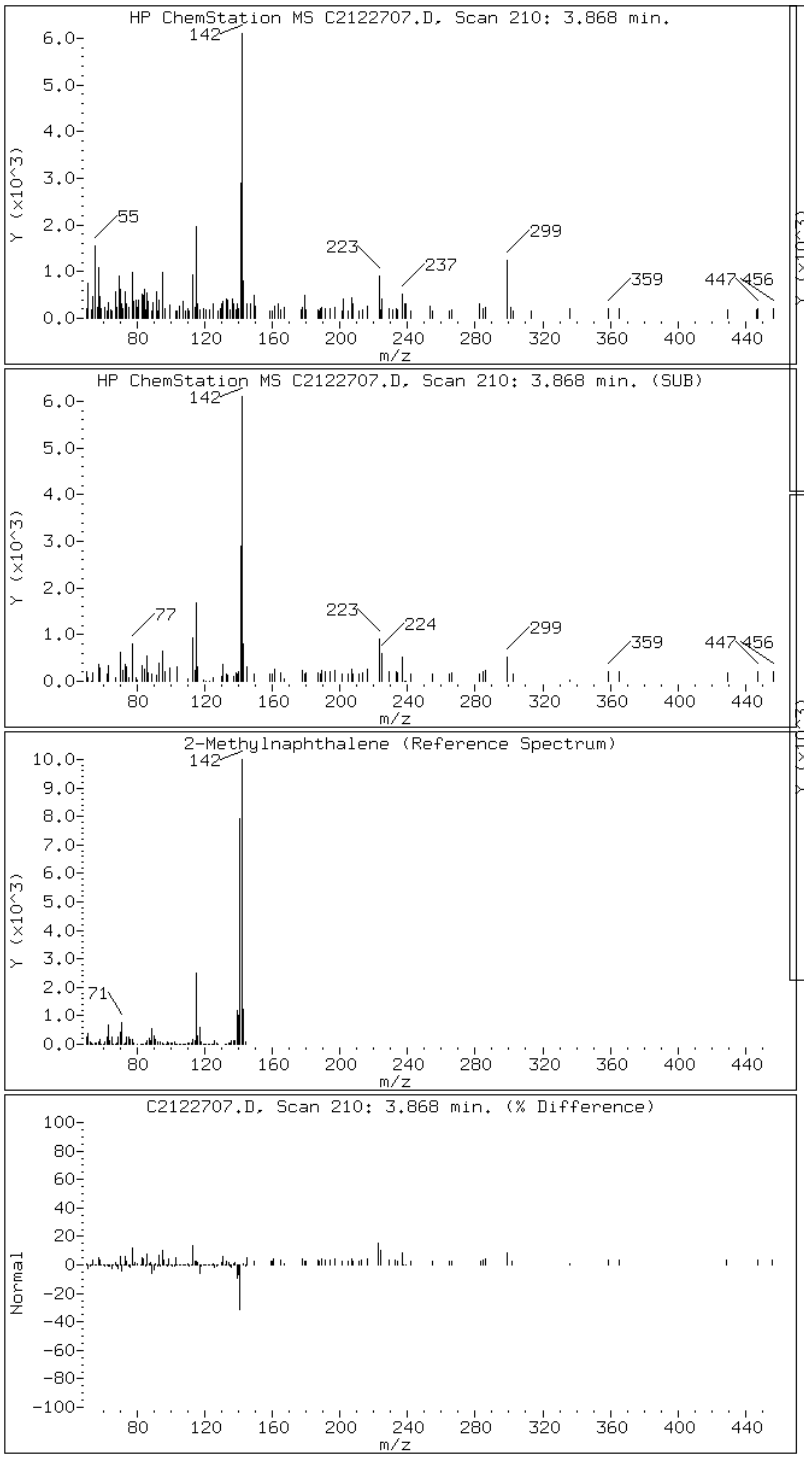
Data File: C2122707.D

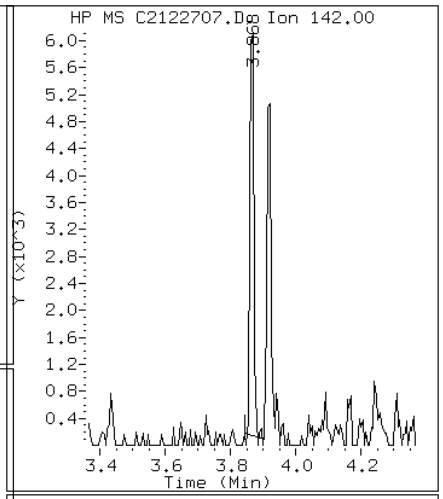
Date: 27-DEC-2012 09:03

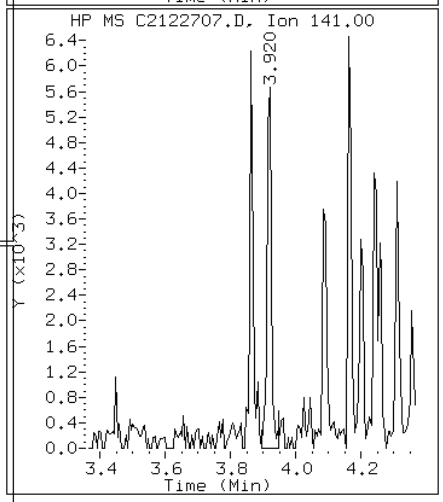
Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

3 2-Methylnaphthalene







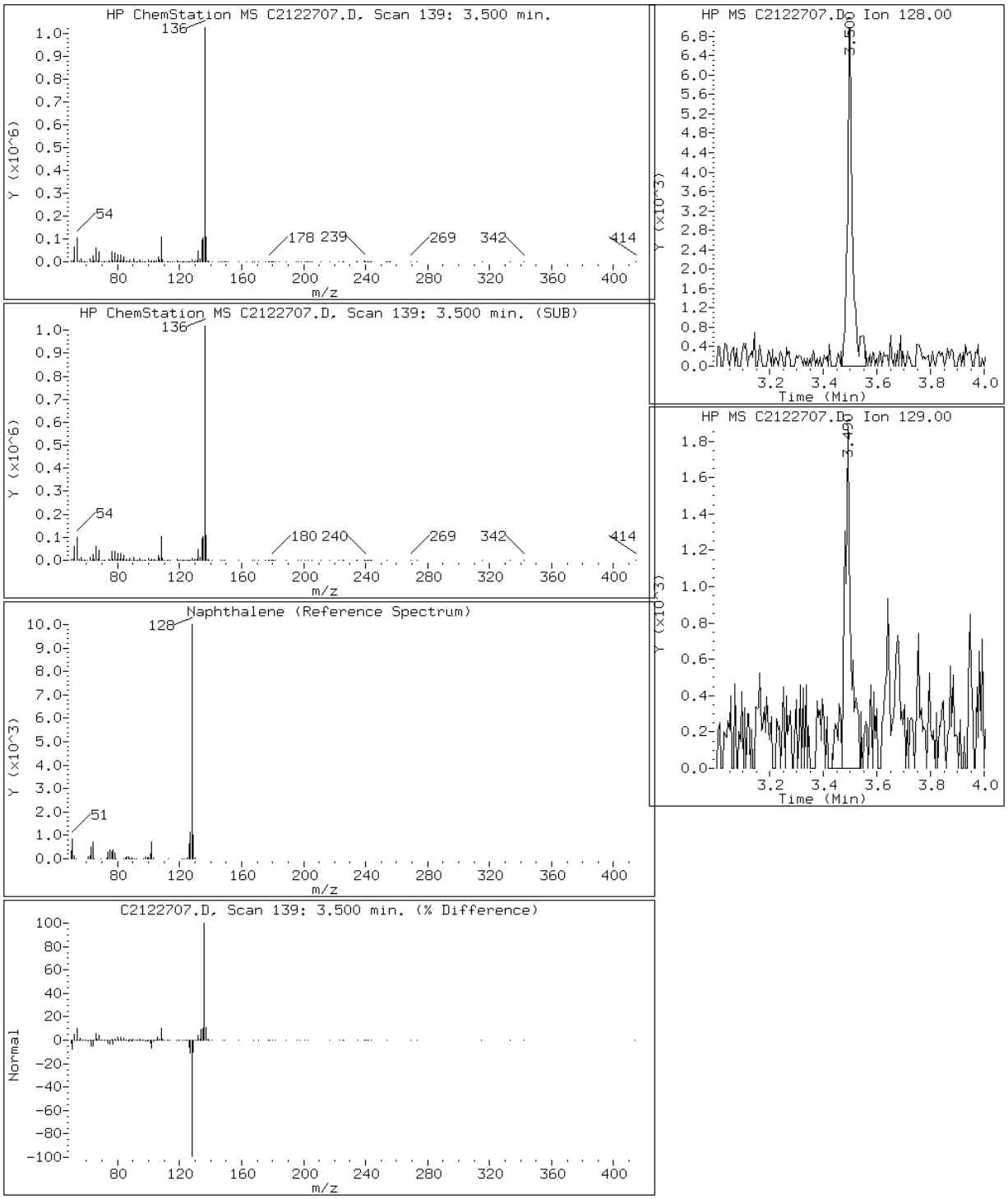
Data File: C2122707.D

Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

2 Naphthalene



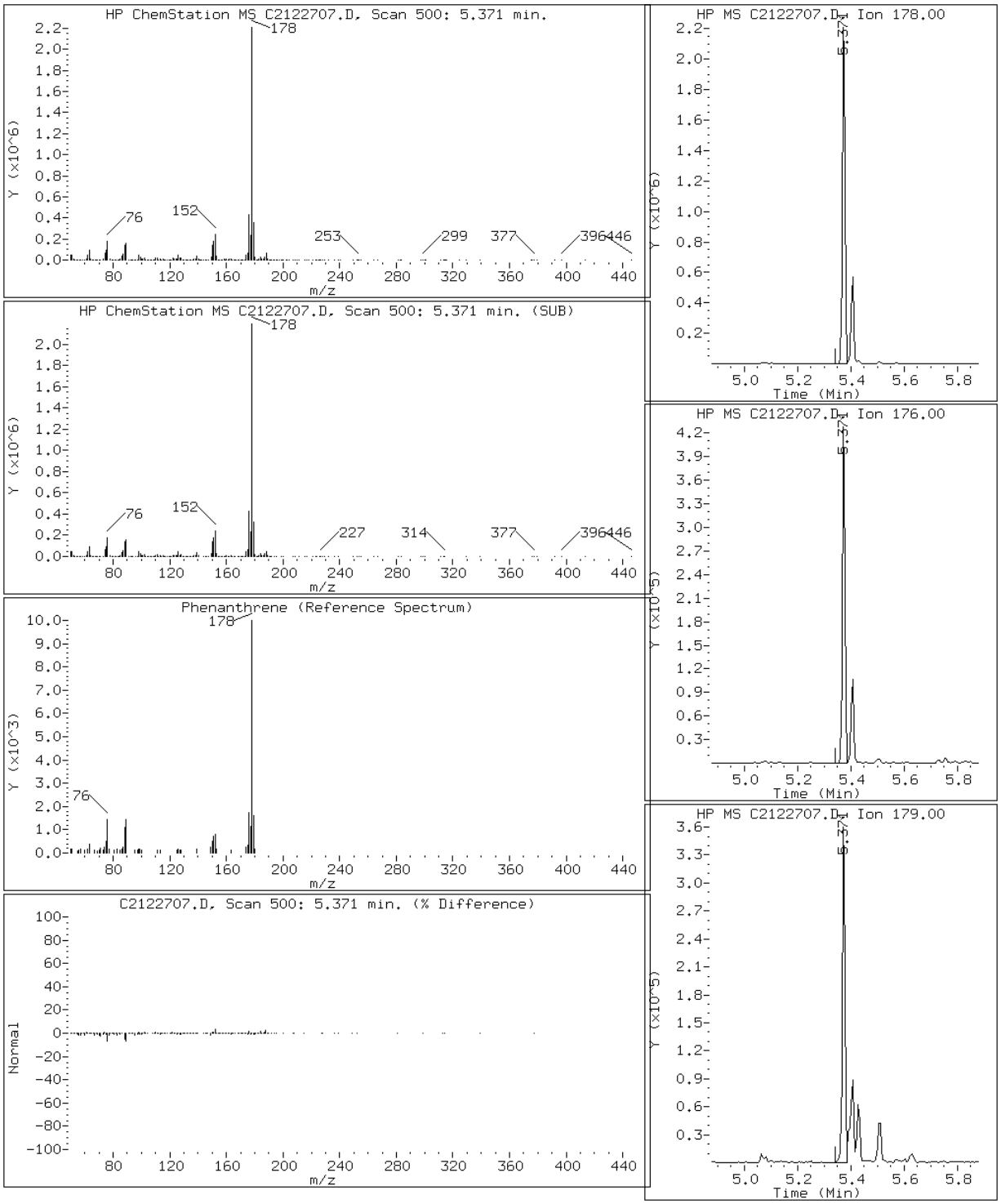
Data File: C2122707.D

Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

10 Phenanthrene



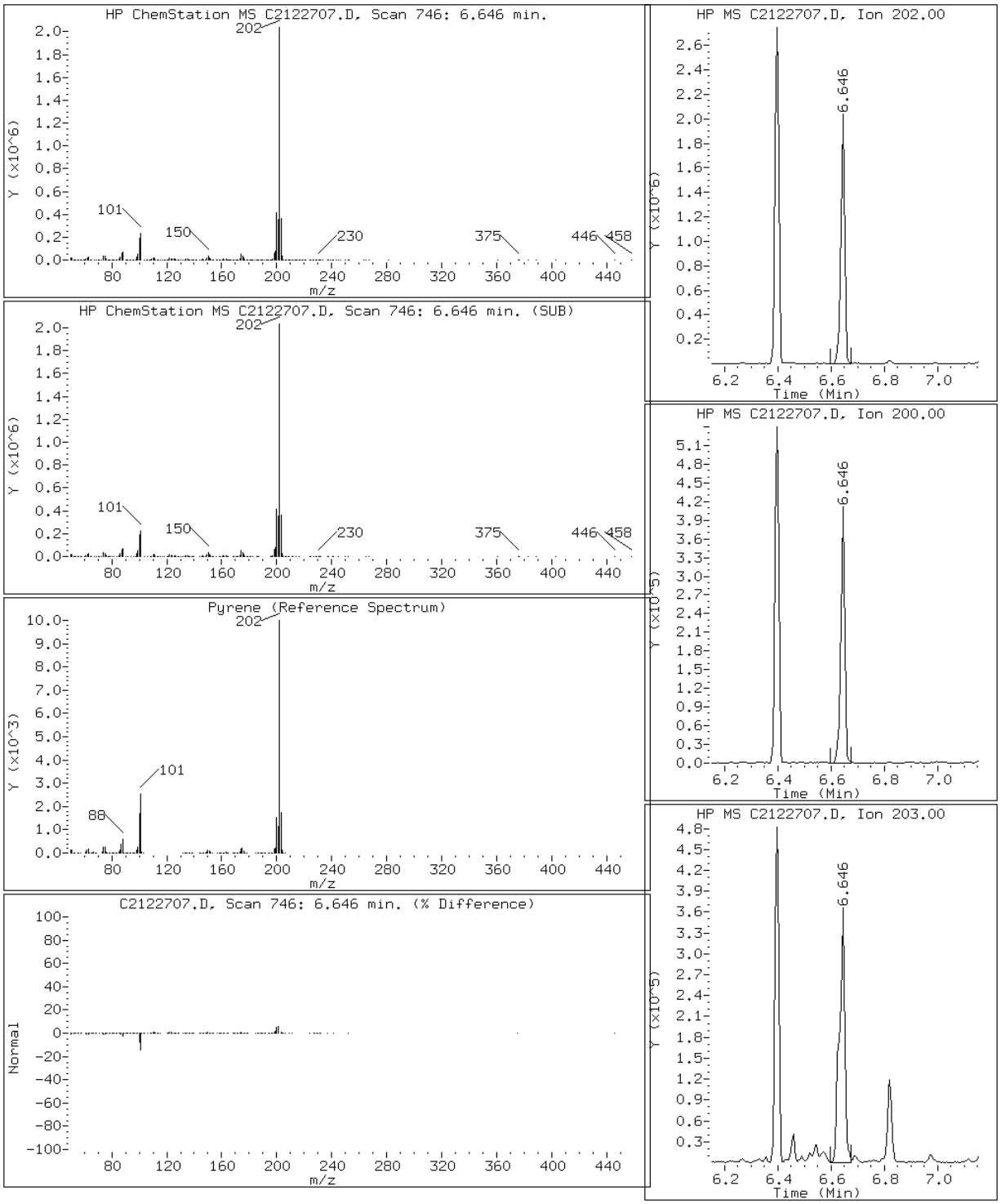
Data File: C2122707.D

Date: 27-DEC-2012 09:03

Client ID: CV0511A-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-30-A~98122~50~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122707.D
Inj. Date and Time: 27-DEC-2012 09:03
Instrument ID: TSMC5973.i
Client ID: CV0511A-CS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

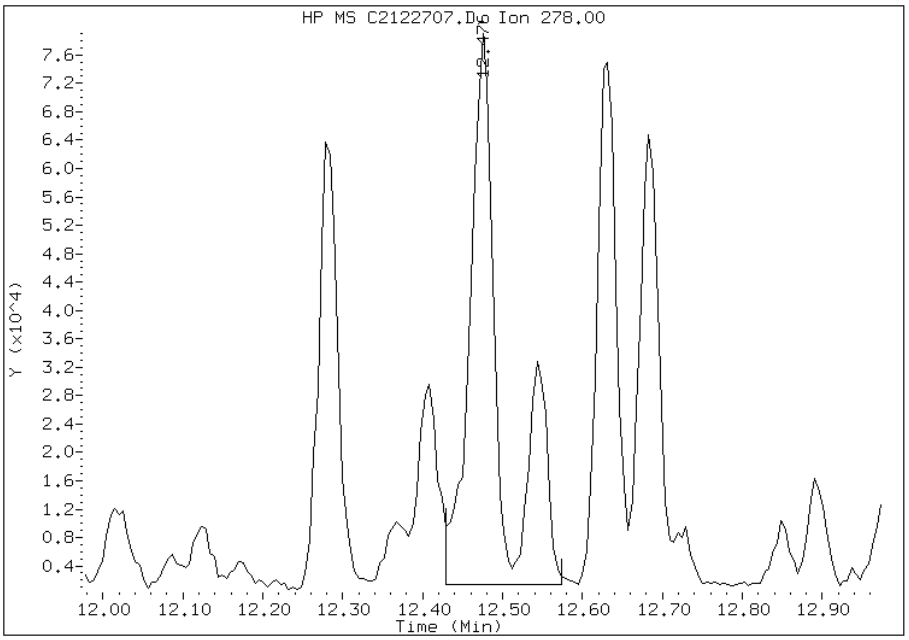
Processing Integration Results

RT: 12.48

Response: 210000

Amount: 1

Conc: 1935



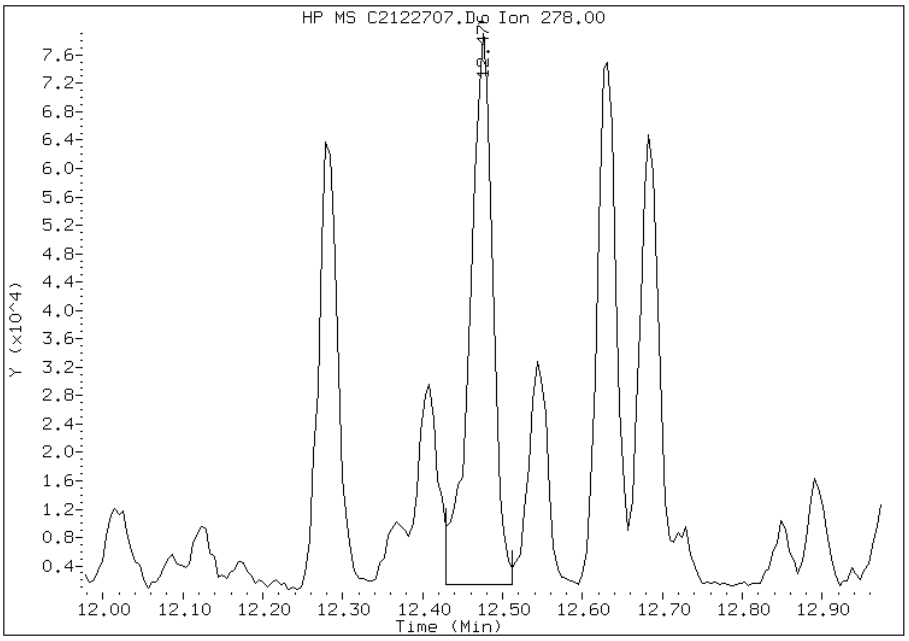
Manual Integration Results

RT: 12.48

Response: 158213

Amount: 1

Conc: 1451



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511A-CSD | Lab Sample ID: 680-85785-31

Matrix: Solid | Lab File ID: C2122708.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.84(g) | Date Analyzed: 12/27/2012 09:22

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 100

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

% Moisture: 23.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9100		850	73
208-96-8	Acenaphthylene	850	U	850	67
120-12-7	Anthracene	16000		850	83
56-55-3	Benzo[a]anthracene	24000		850	78
50-32-8	Benzo[a]pyrene	20000		850	86
205-99-2	Benzo[b]fluoranthene	25000		850	120
191-24-2	Benzo[g,h,i]perylene	10000		850	140
207-08-9	Benzo[k]fluoranthene	10000		850	81
218-01-9	Chrysene	23000		850	95
53-70-3	Dibenz(a,h)anthracene	2700		850	82
206-44-0	Fluoranthene	64000		850	76
86-73-7	Fluorene	7200		850	66
193-39-5	Indeno[1,2,3-cd]pyrene	12000		850	140
90-12-0	1-Methylnaphthalene	350	J	850	67
91-57-6	2-Methylnaphthalene	380	J	850	66
91-20-3	Naphthalene	430	J	850	66
85-01-8	Phenanthrene	63000		850	56
129-00-0	Pyrene	48000		850	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122708.D
Lab Smp Id: 680-85785-A-31-A Client Smp ID: CV0511A-CSD
Inj Date : 27-DEC-2012 09:22
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-31-A~98122~100~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 2
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	100.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.840	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	Compound Not Detected.						BELOW RL
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5902142	40.0000		
2 Naphthalene	128	3.500	3.500	(1.004)	14689	0.10184	330(a)	
3 2-Methylnaphthalene	142	3.863	3.863	(1.109)	9933	0.09074	290(a)	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	8918	0.08306	270(a)	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3372261	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	2753	0.01519	49(a)	
7 Acenaphthene	154	4.459	4.459	(1.003)	204094	2.15278	7000	
8 Fluorene	166	4.749	4.754	(1.069)	217314	1.71708	5600	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5506761	40.0000		
10 Phenanthrene	178	5.371	5.376	(1.003)	2293696	15.0034	49000	
11 Anthracene	178	5.407	5.412	(1.010)	613815	3.71085	12000	
$ 12 o-Terphenyl	230	Compound Not Detected.						BELOW RL
13 Fluoranthene	202	6.397	6.402	(1.194)	3132027	15.2499	49000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	5686415	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2425970	11.3875	37000	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	1117717	5.74049	19000	
17 Chrysene	228	8.324	8.330	(1.004)	911657	5.41305	18000	
* 18 Perylene-d12	264	10.729	10.734	(1.000)	6329770	40.0000		
19 Benzo(b)fluoranthene	252	10.050	10.061	(0.937)	1175451	5.82939	19000	
20 Benzo(k)fluoranthene	252	10.092	10.107	(0.941)	487687	2.48685	8100	
21 Benzo(a)pyrene	252	10.599	10.610	(0.988)	854165	4.77031	15000	
22 Indeno(1,2,3-cd)pyrene	276	12.444	12.460	(1.160)	553487	2.89535	9400	
23 Dibenzo(a,h)anthracene	278	12.475	12.501	(1.163)	119320	0.63711	2100	
24 Benzo(g,h,i)perylene	276	12.849	12.869	(1.198)	449476	2.38536	7700	

QC Flag Legend

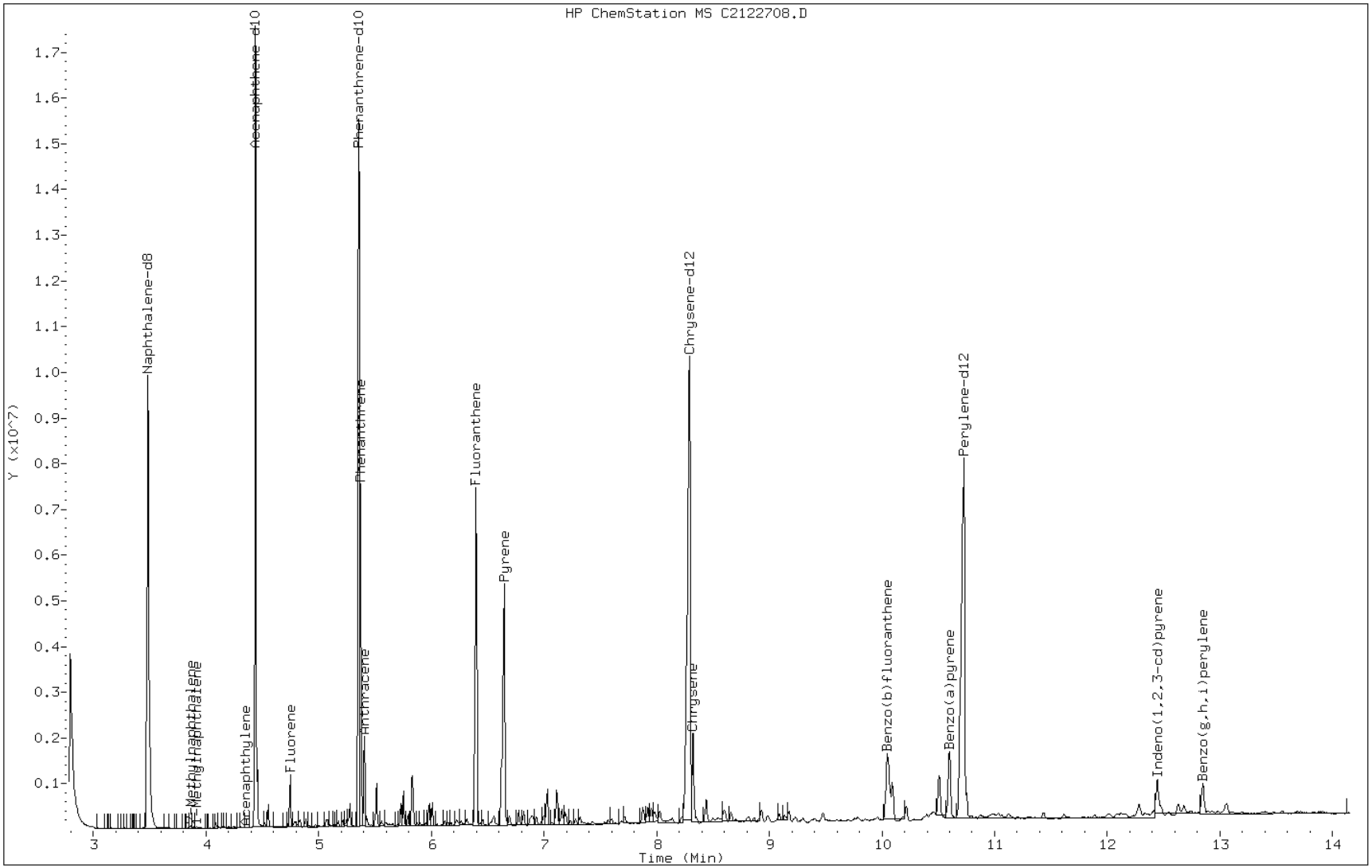
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW



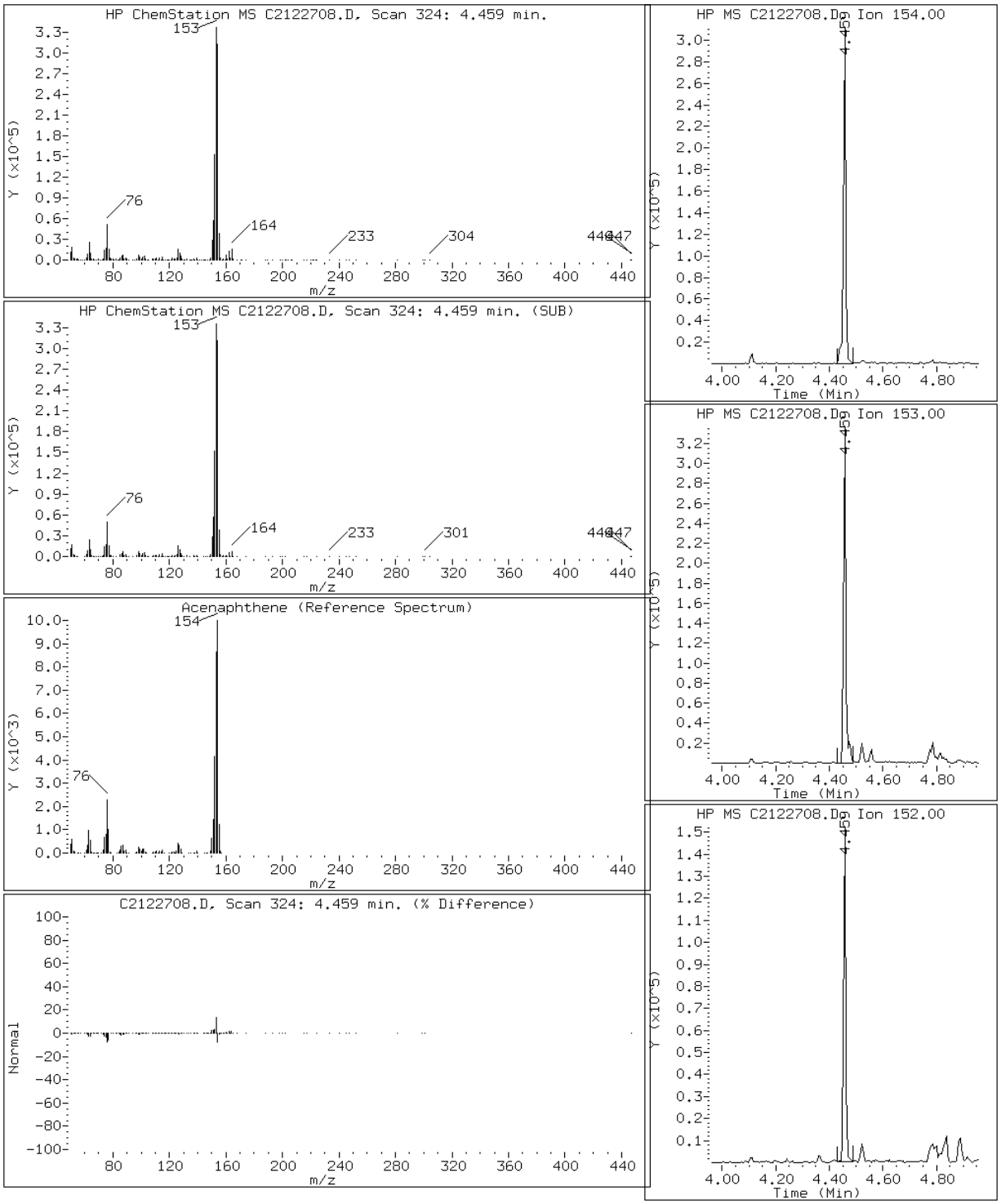
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

7 Acenaphthene



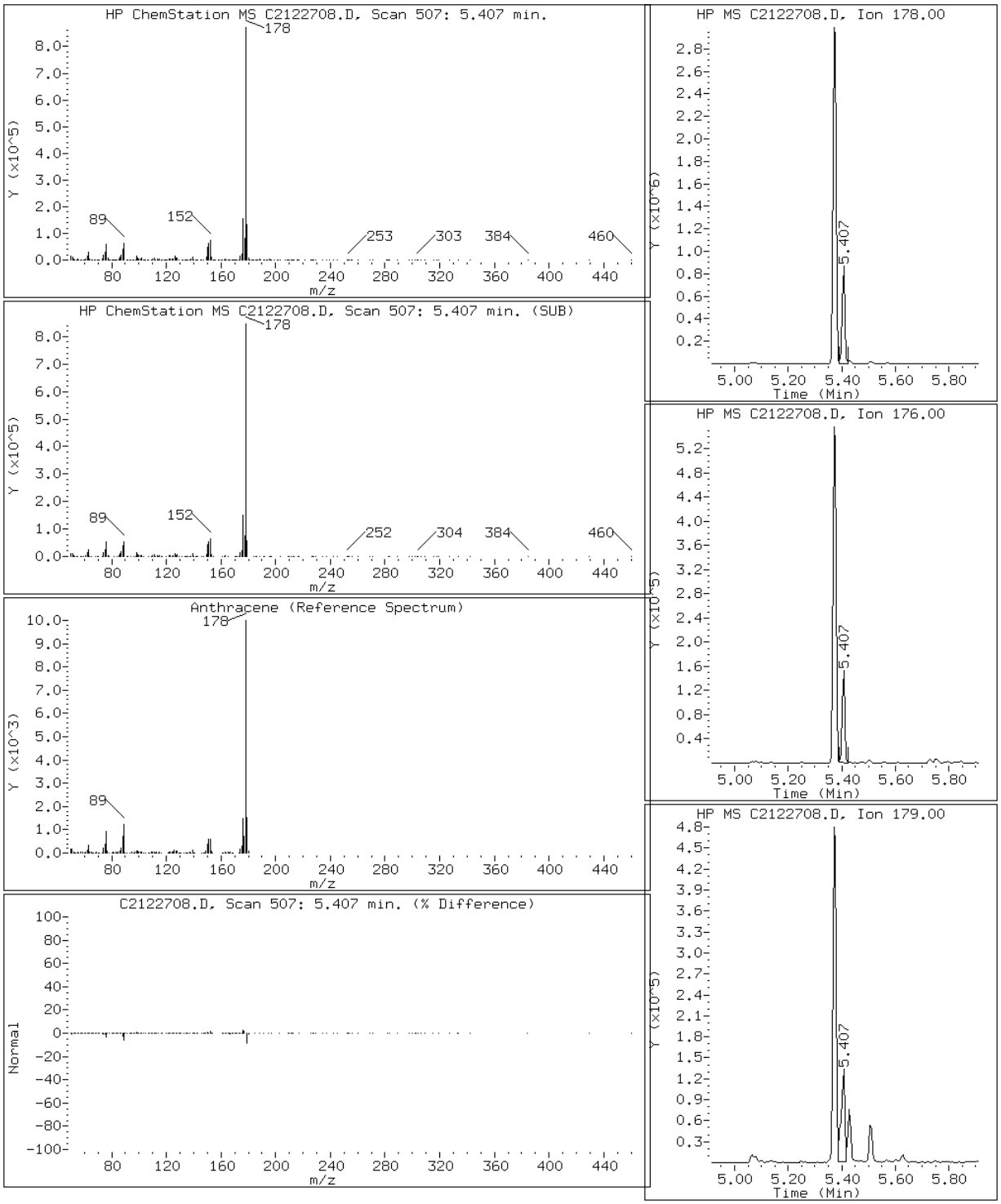
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

11 Anthracene



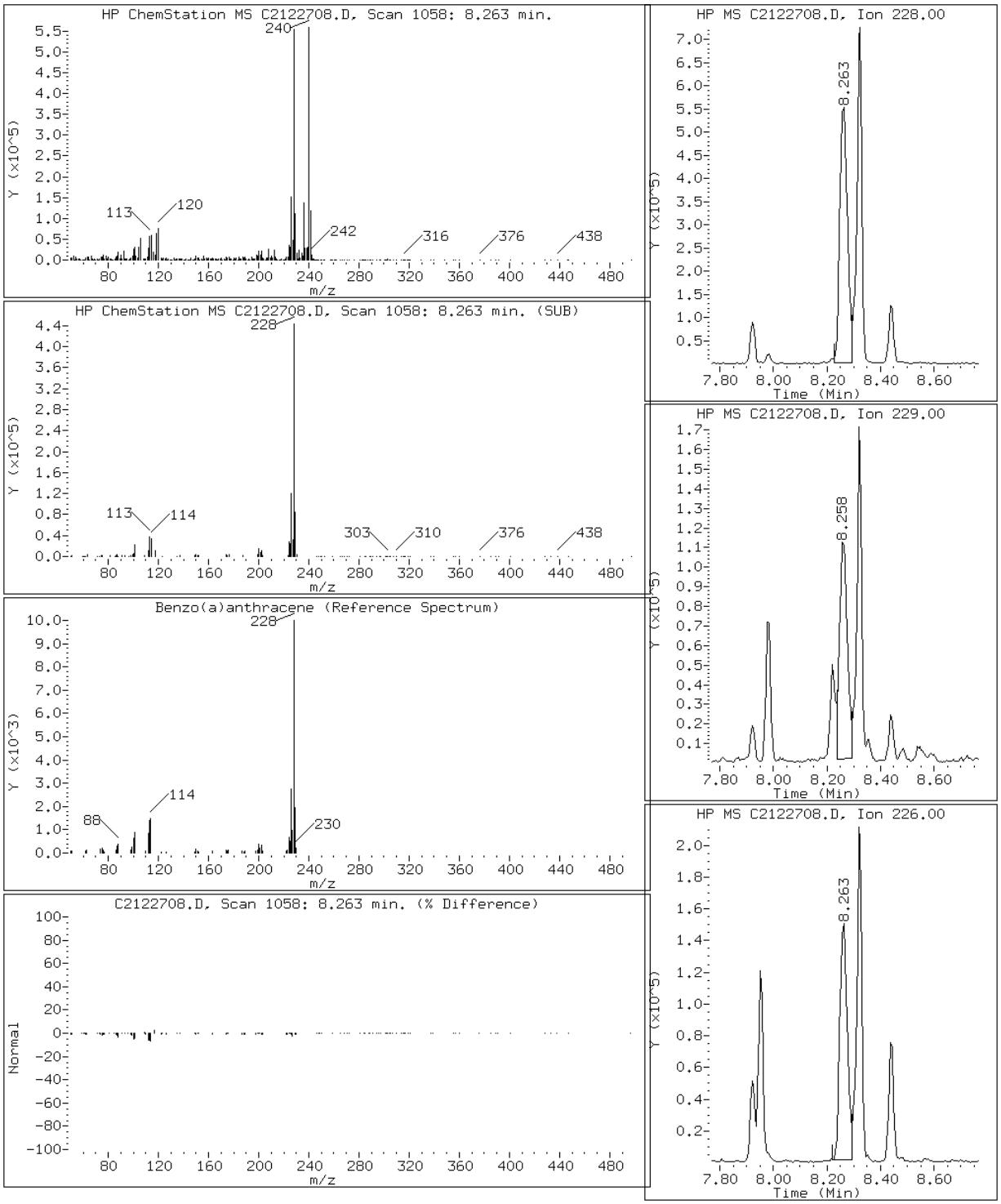
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

16 Benzo(a)anthracene



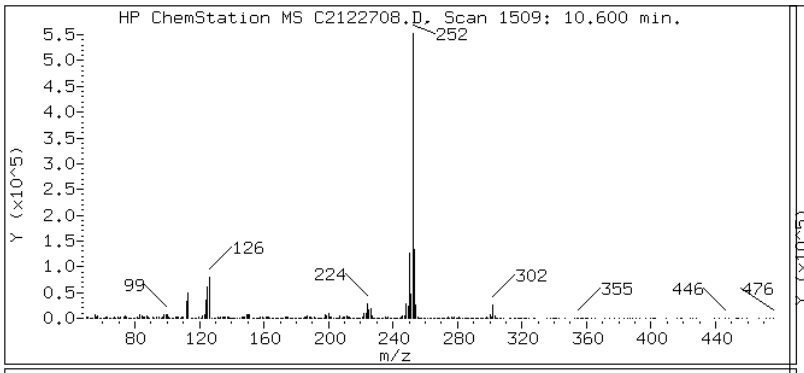
Data File: C2122708.D

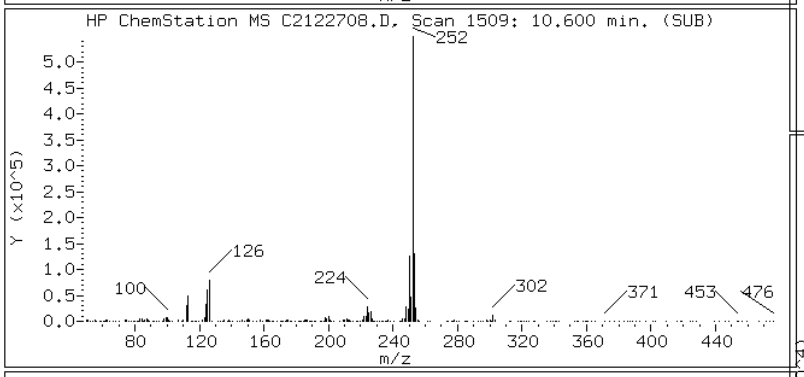
Date: 27-DEC-2012 09:22

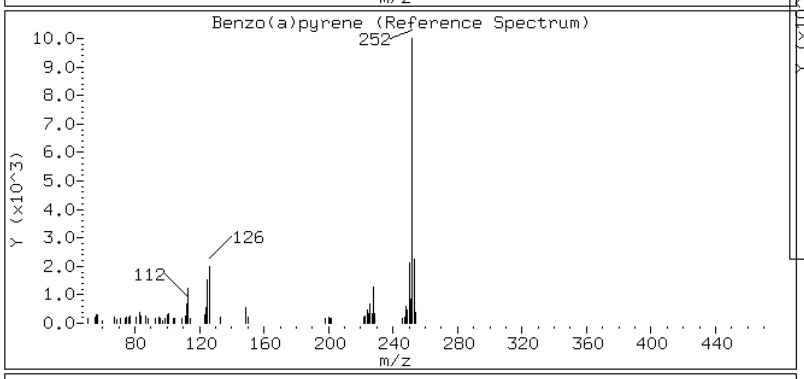
Client ID: CV0511A-CSD Instrument: TSMC5973.i

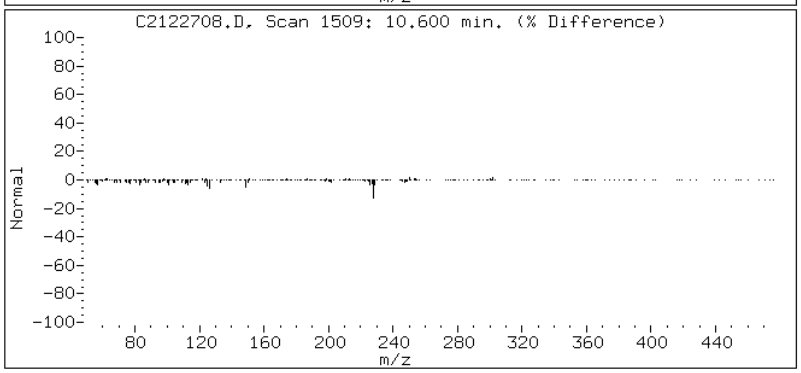
Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

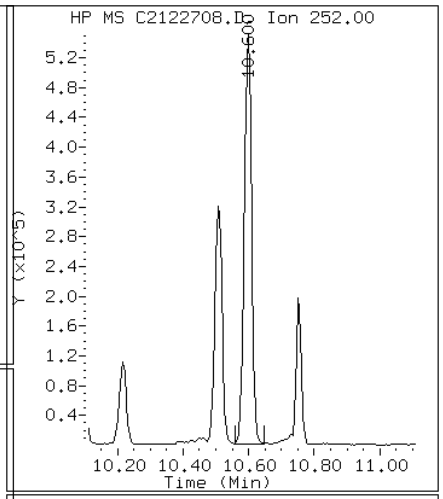
21 Benzo(a)pyrene

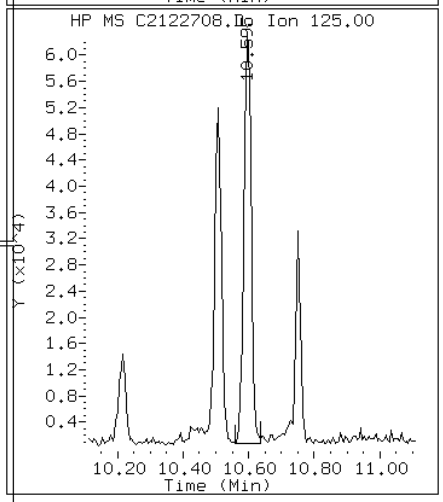












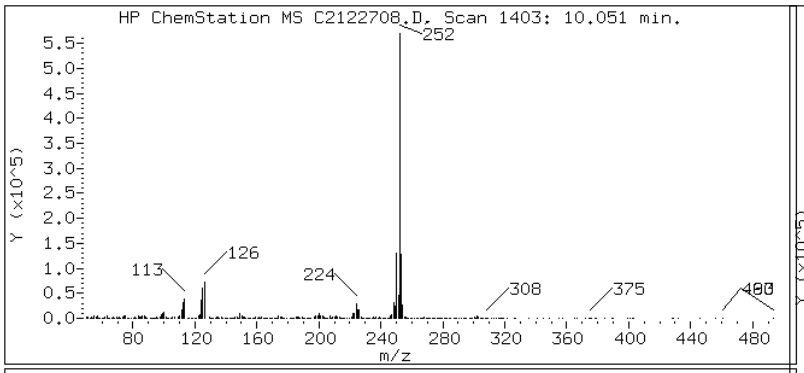
Data File: C2122708.D

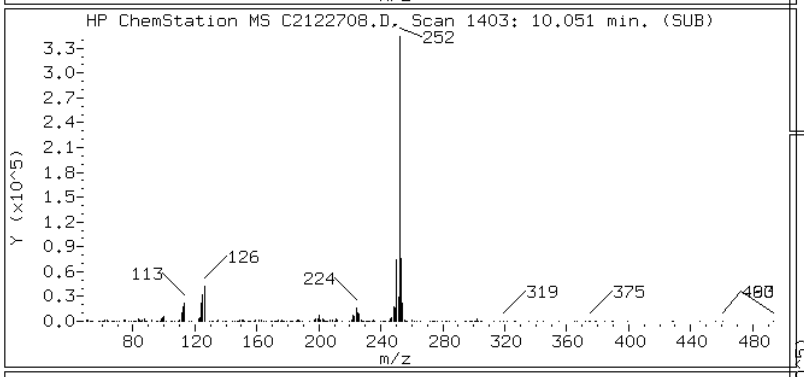
Date: 27-DEC-2012 09:22

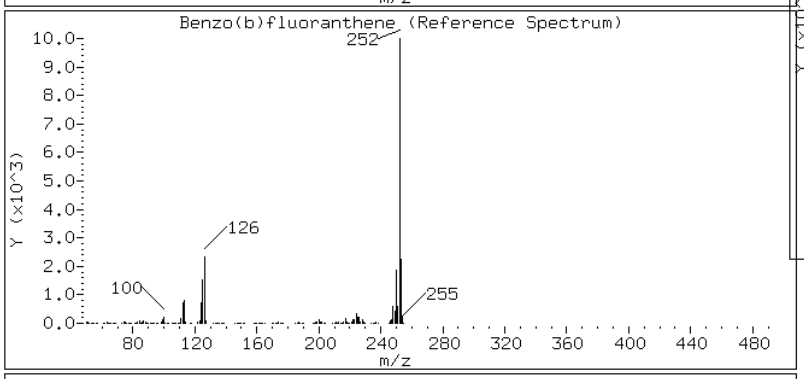
Client ID: CV0511A-CSD Instrument: TSMC5973.i

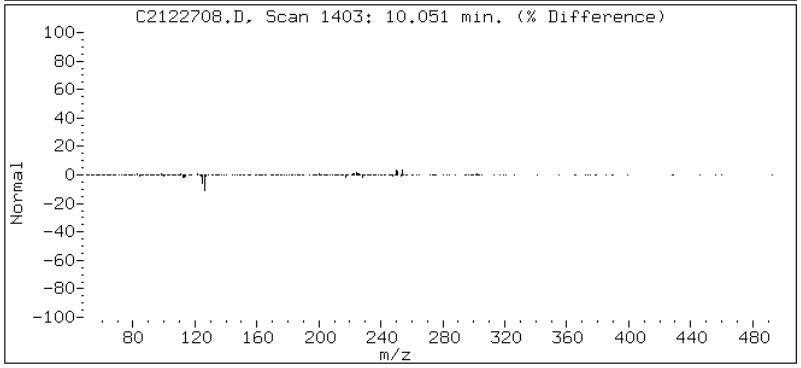
Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

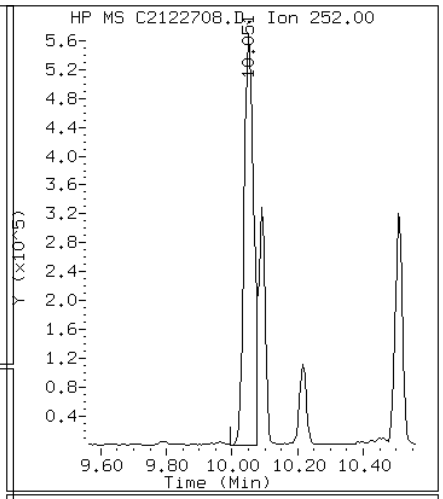
19 Benzo(b)fluoranthene

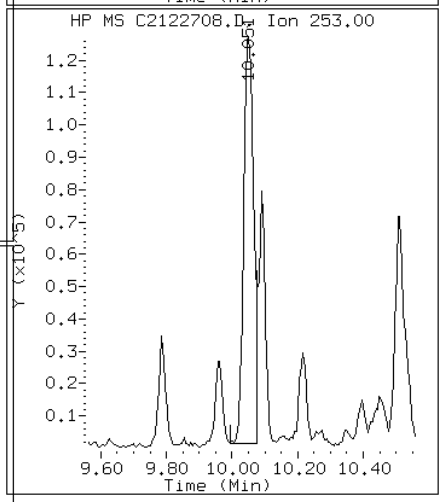












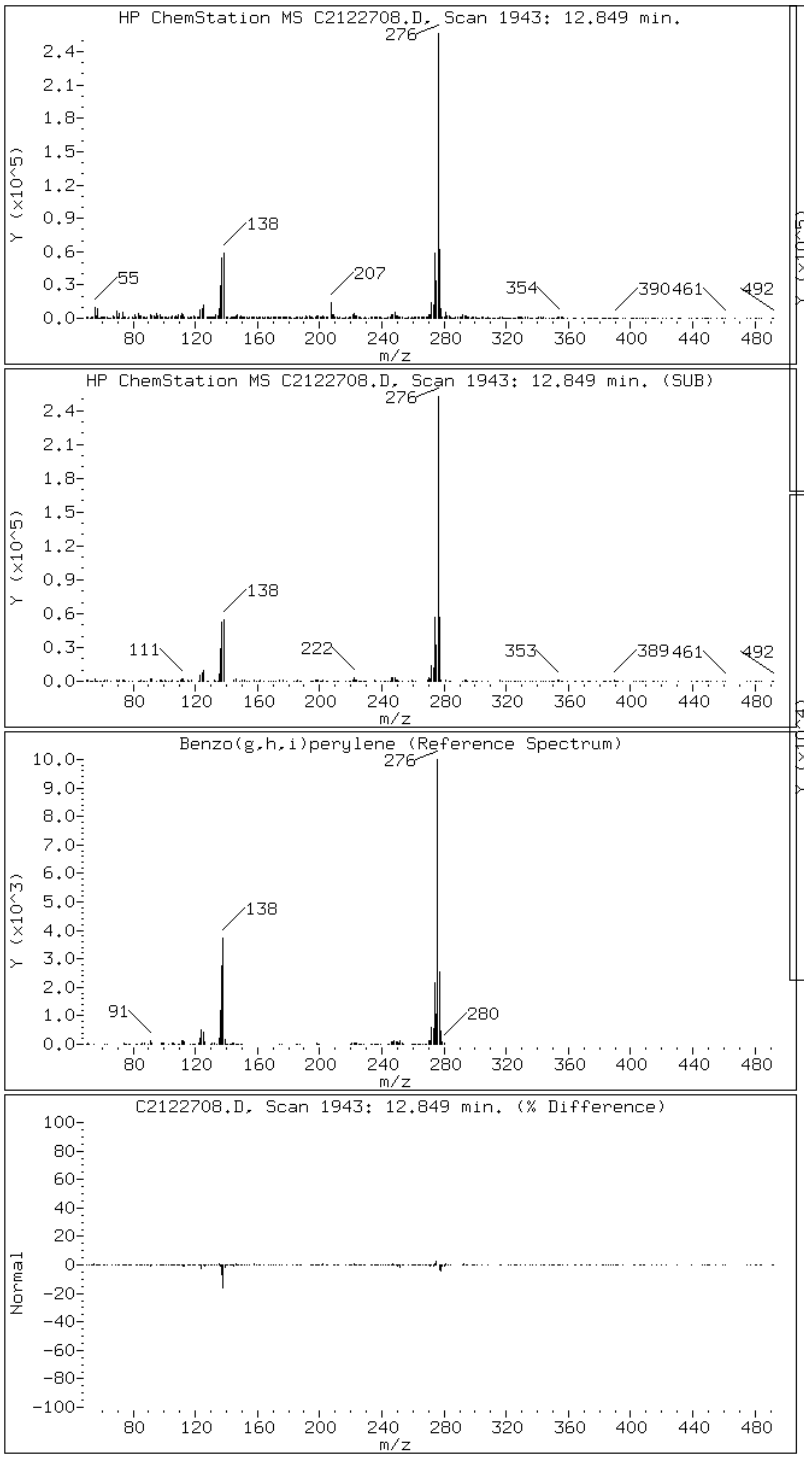
Data File: C2122708.D

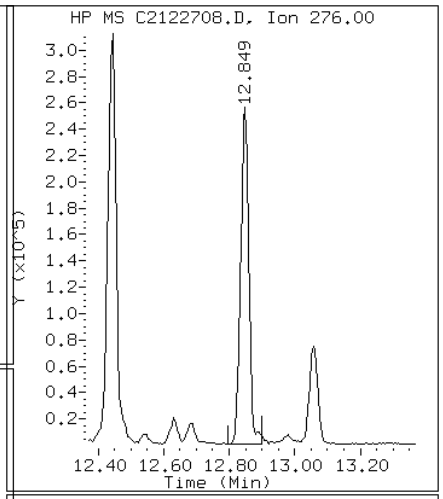
Date: 27-DEC-2012 09:22

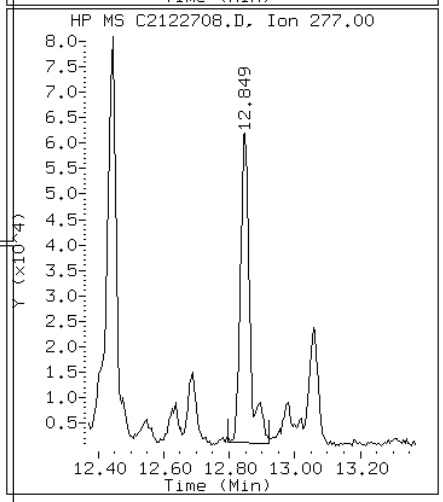
Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

24 Benzo(g,h,i)perylene







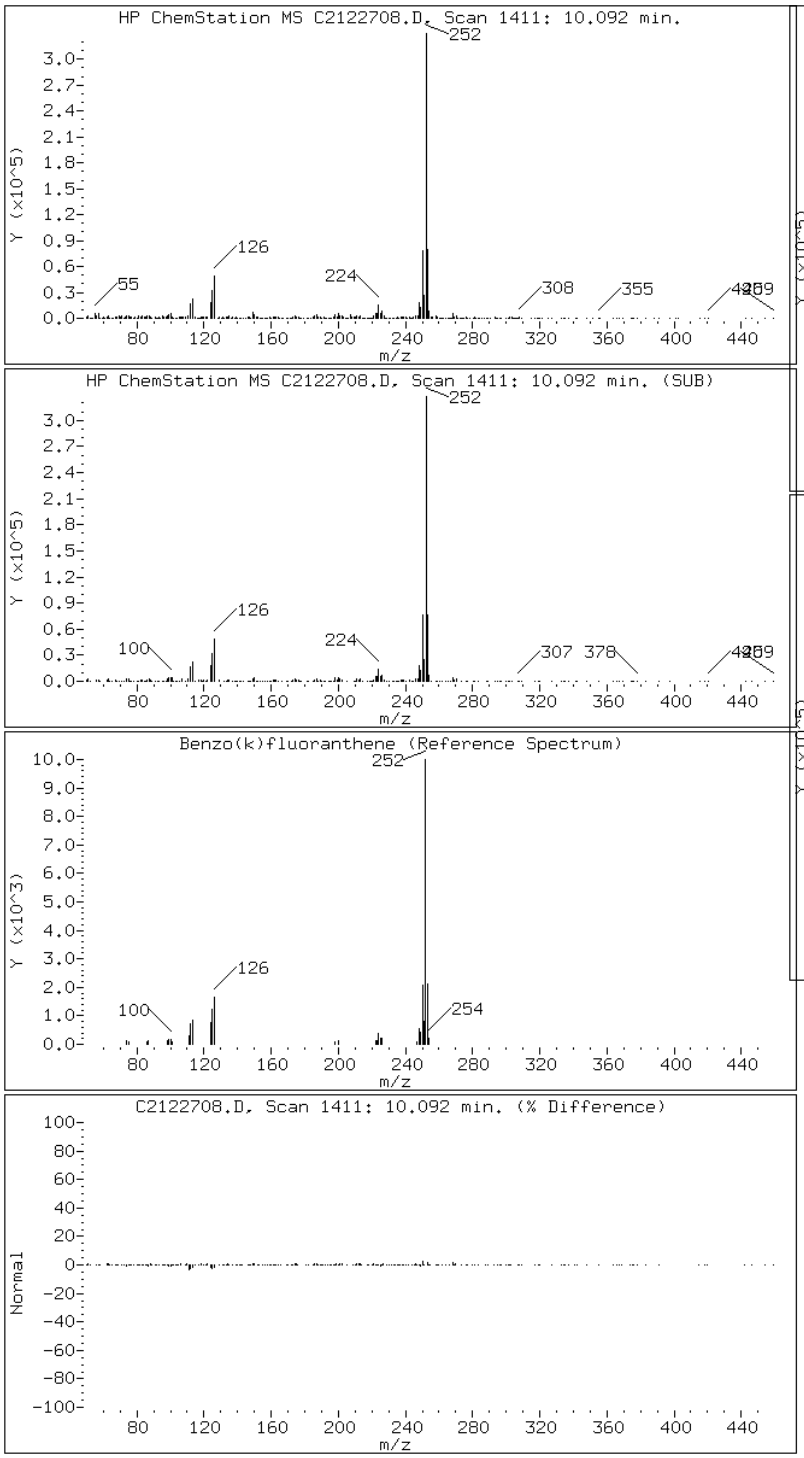
Data File: C2122708.D

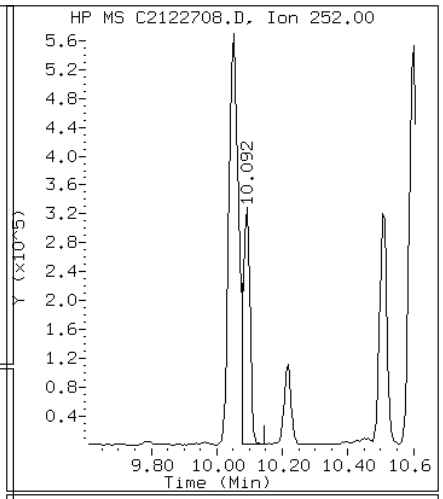
Date: 27-DEC-2012 09:22

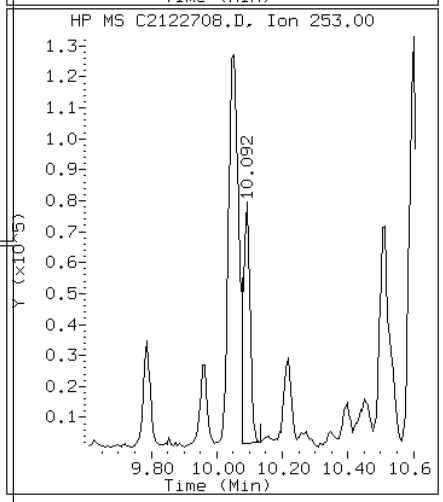
Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

20 Benzo(k)fluoranthene







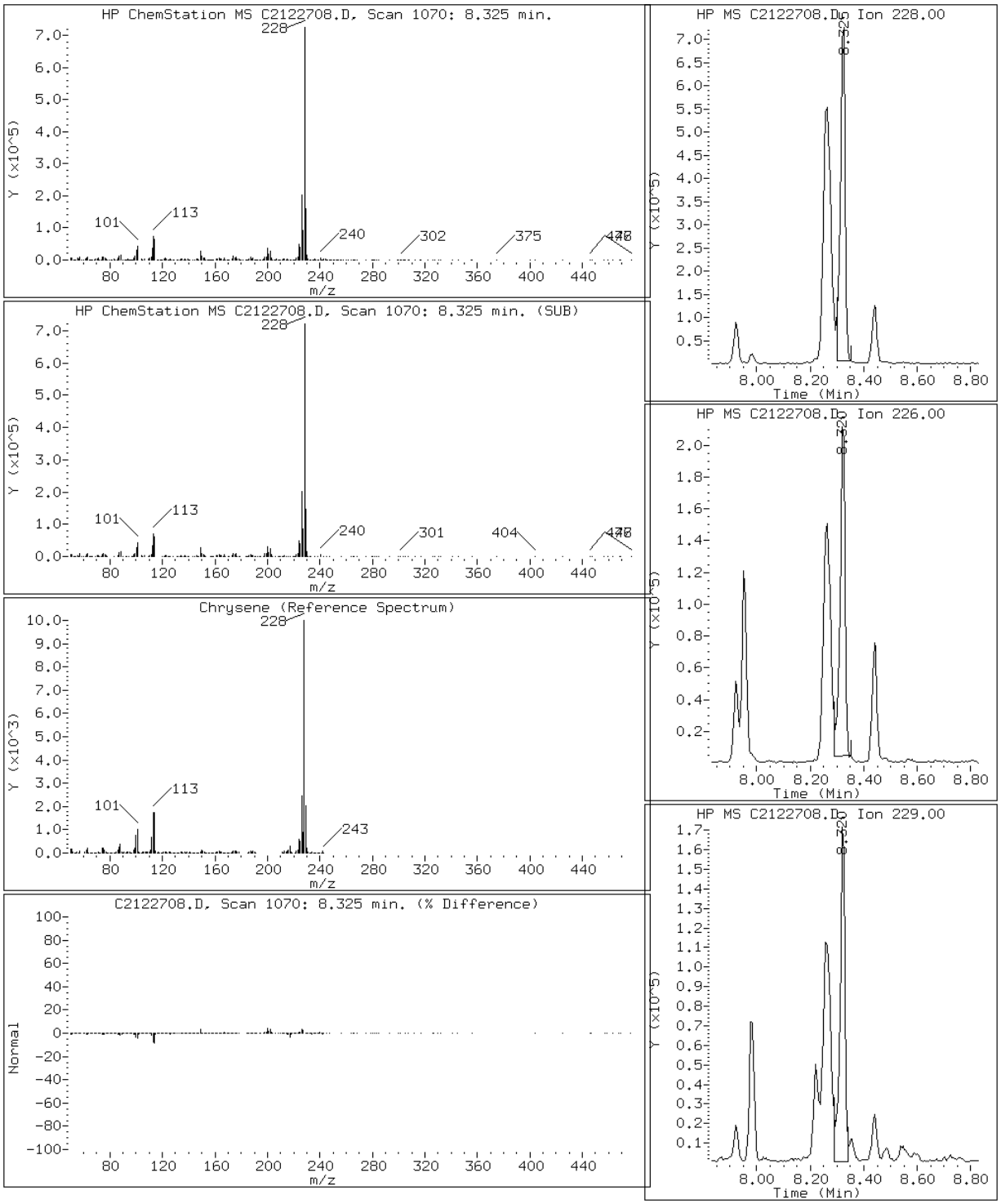
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

17 Chrysene



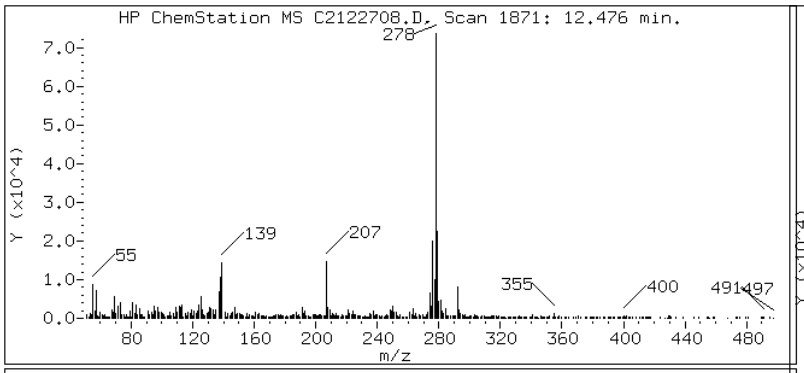
Data File: C2122708.D

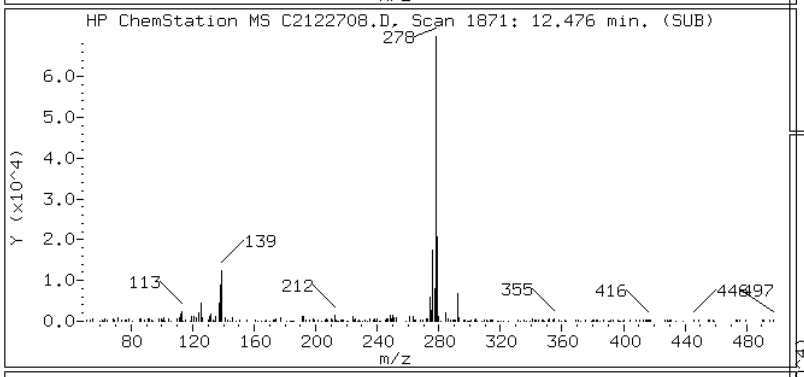
Date: 27-DEC-2012 09:22

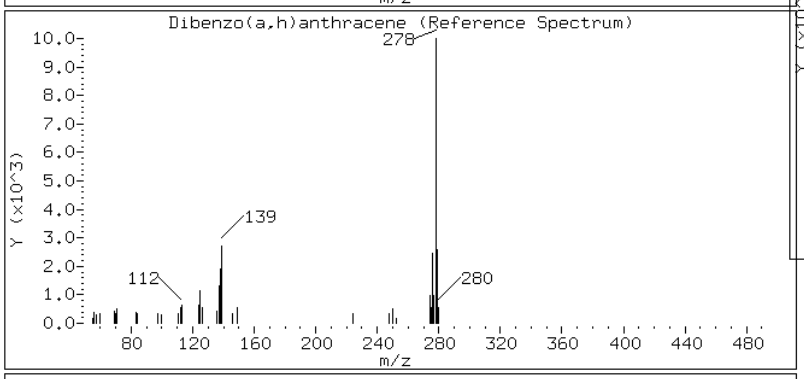
Client ID: CV0511A-CSD Instrument: TSMC5973.i

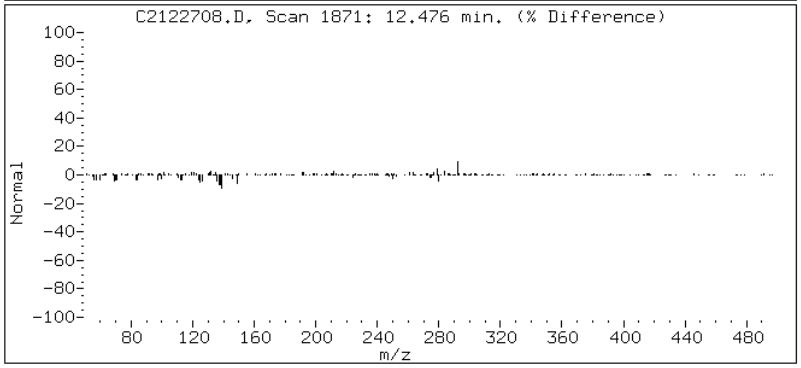
Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

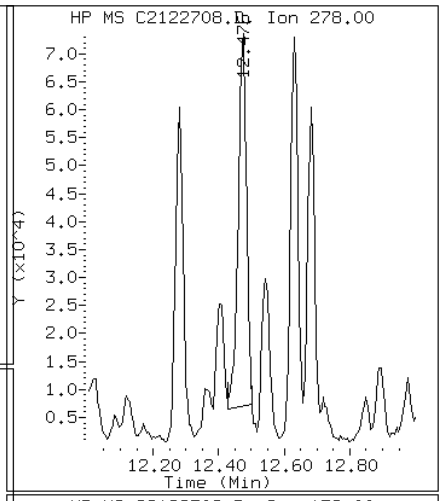
23 Dibenzo(a,h)anthracene

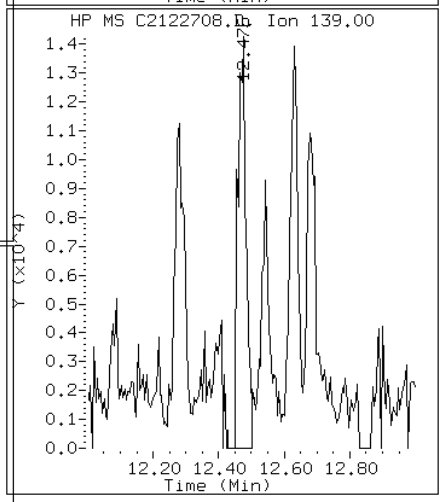












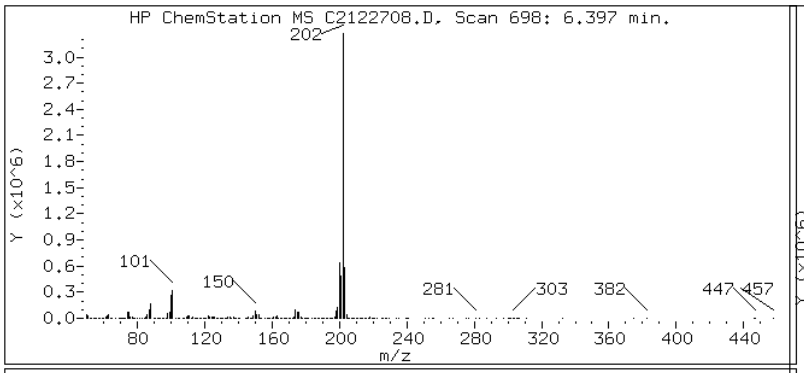
Data File: C2122708.D

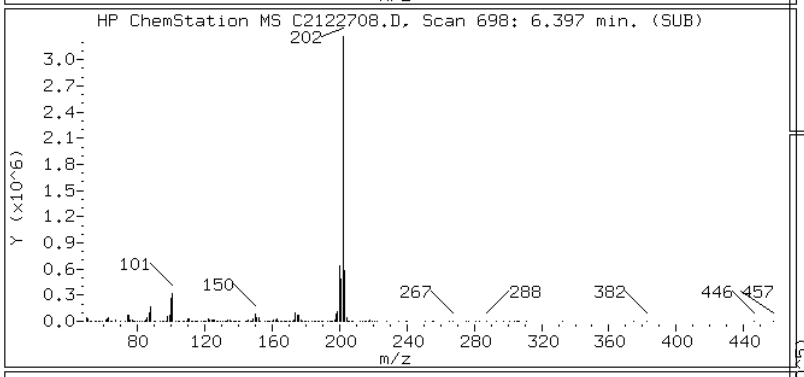
Date: 27-DEC-2012 09:22

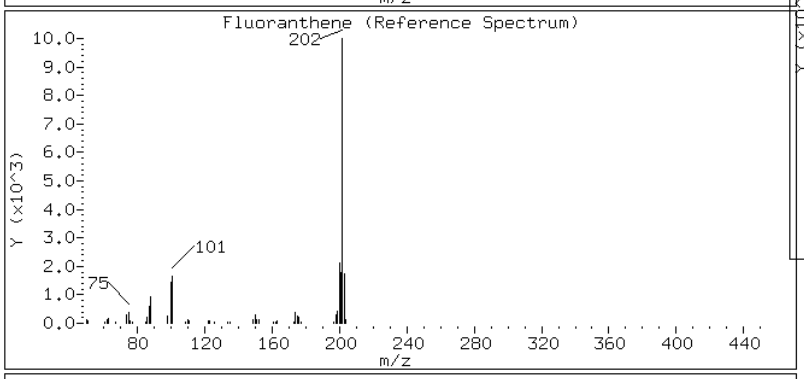
Client ID: CV0511A-CSD Instrument: TSMC5973.i

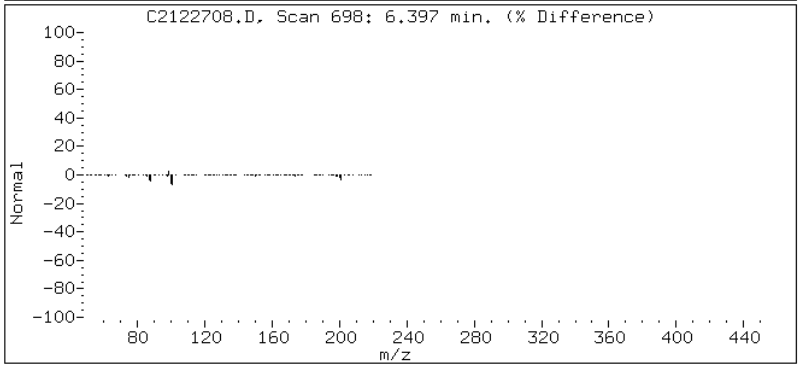
Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

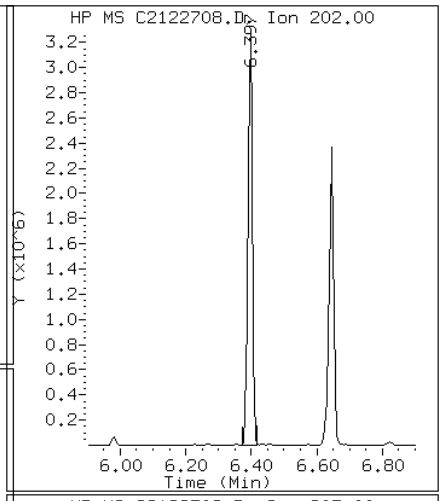
13 Fluoranthene

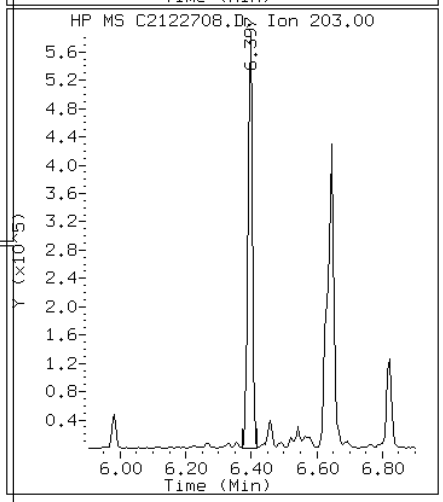












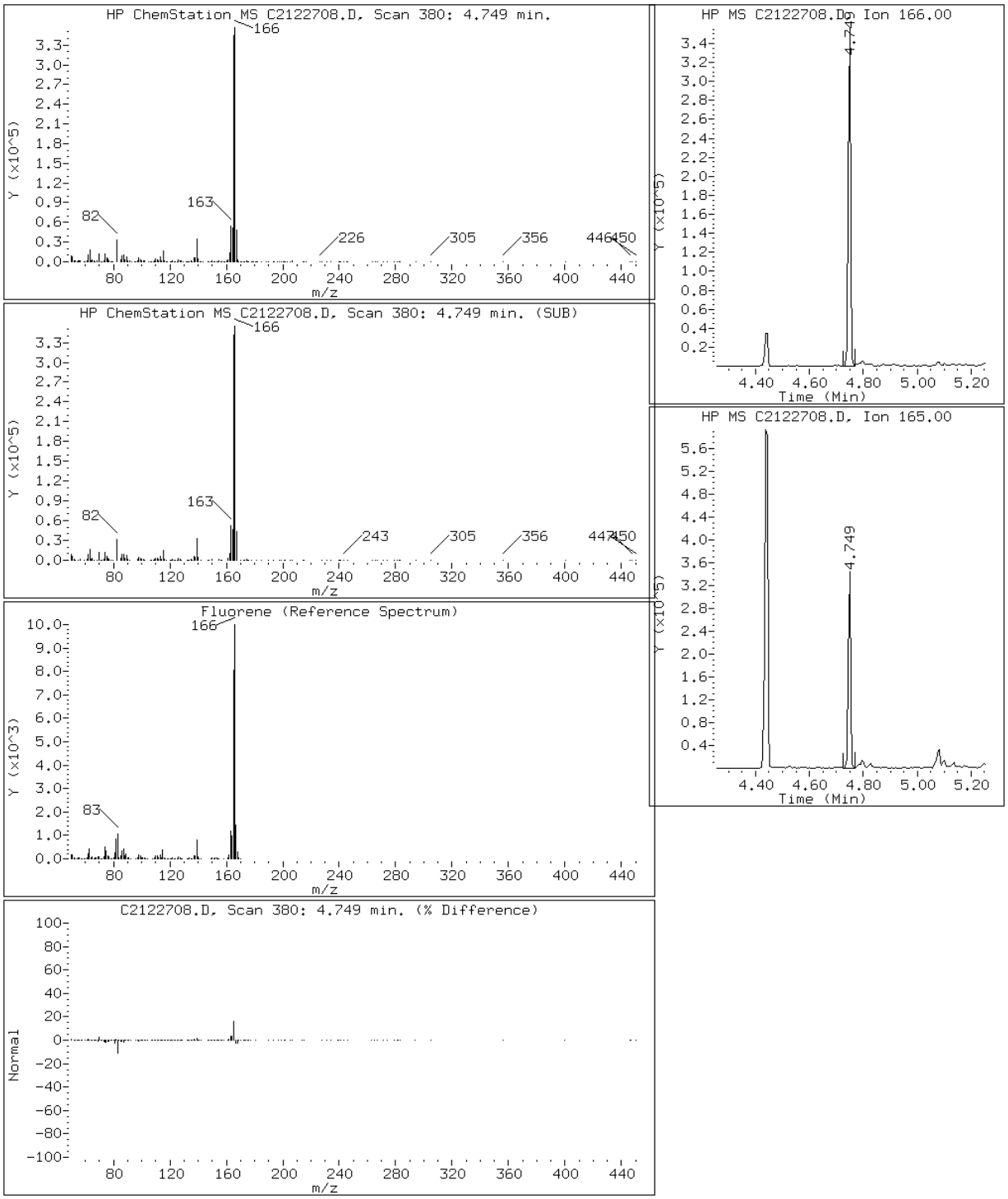
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

8 Fluorene



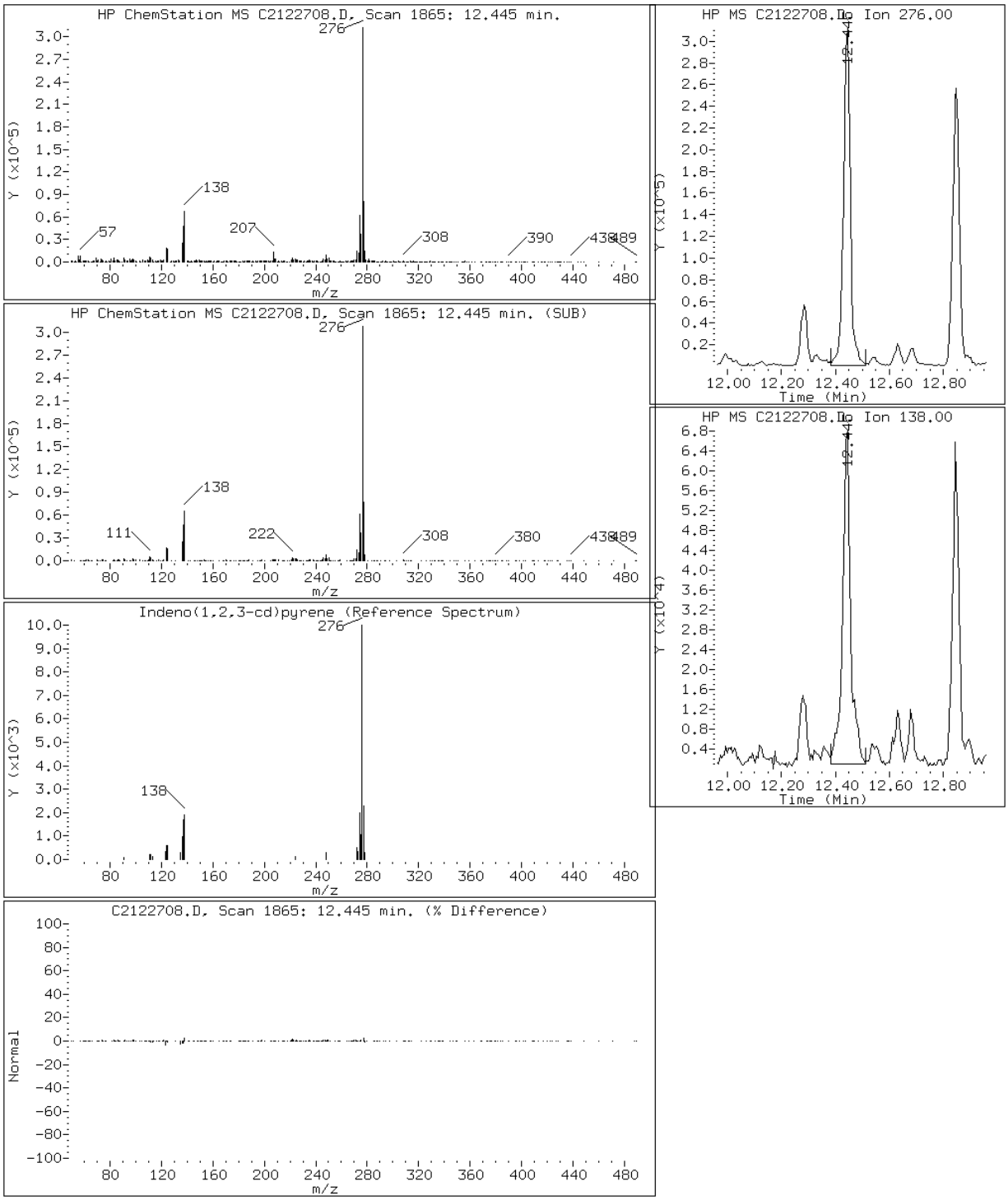
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

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



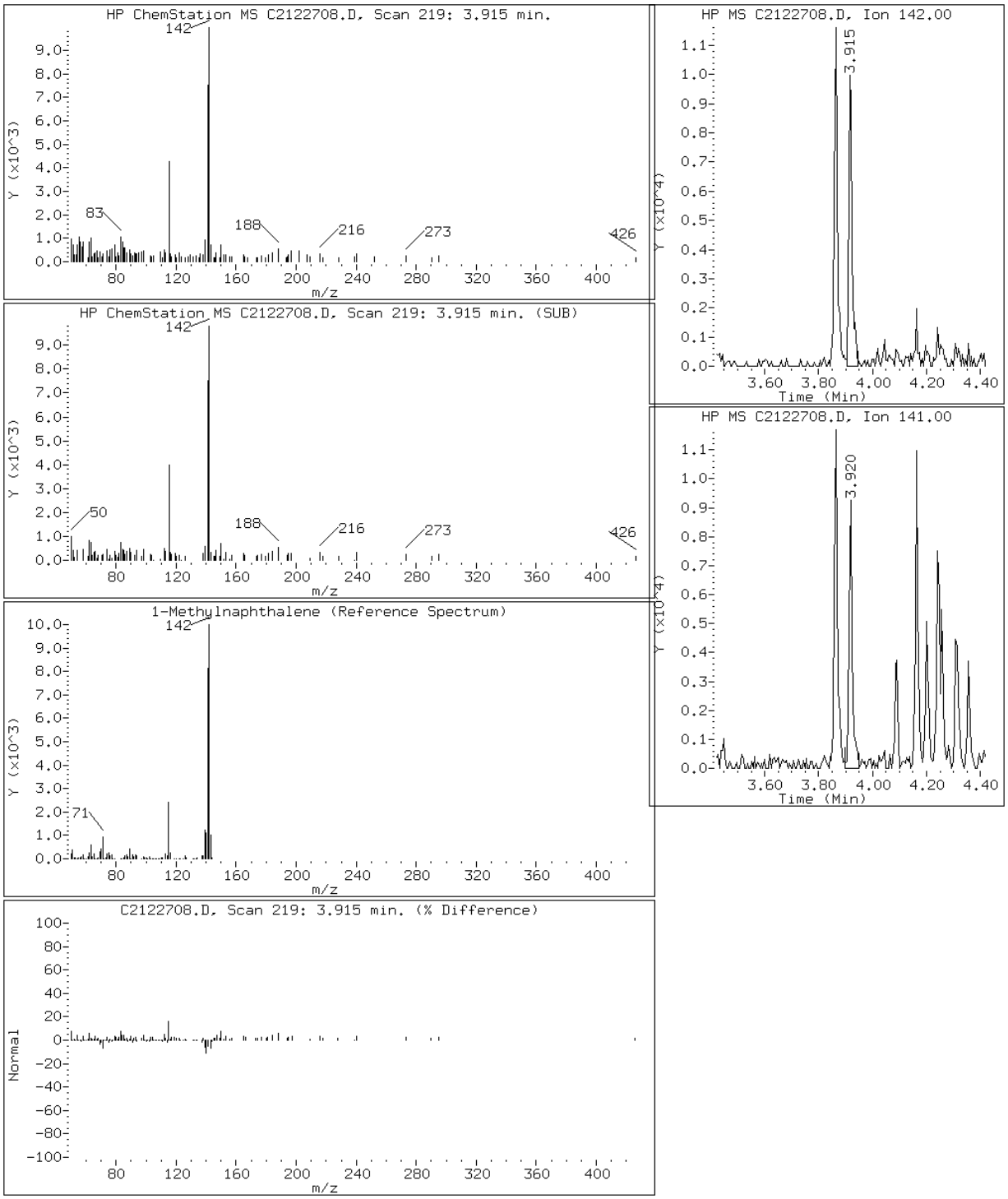
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

4 1-Methylnaphthalene



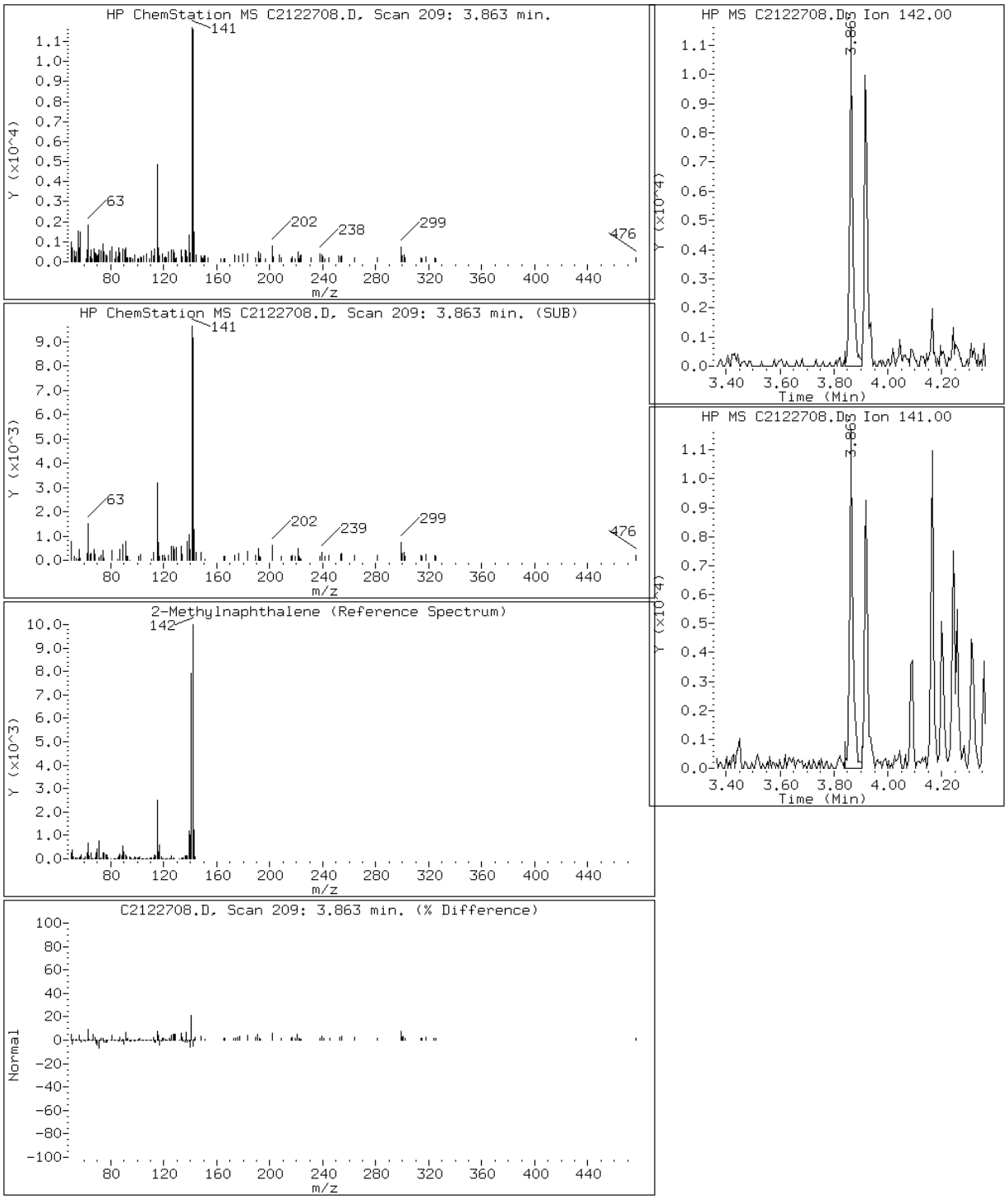
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

3 2-Methylnaphthalene



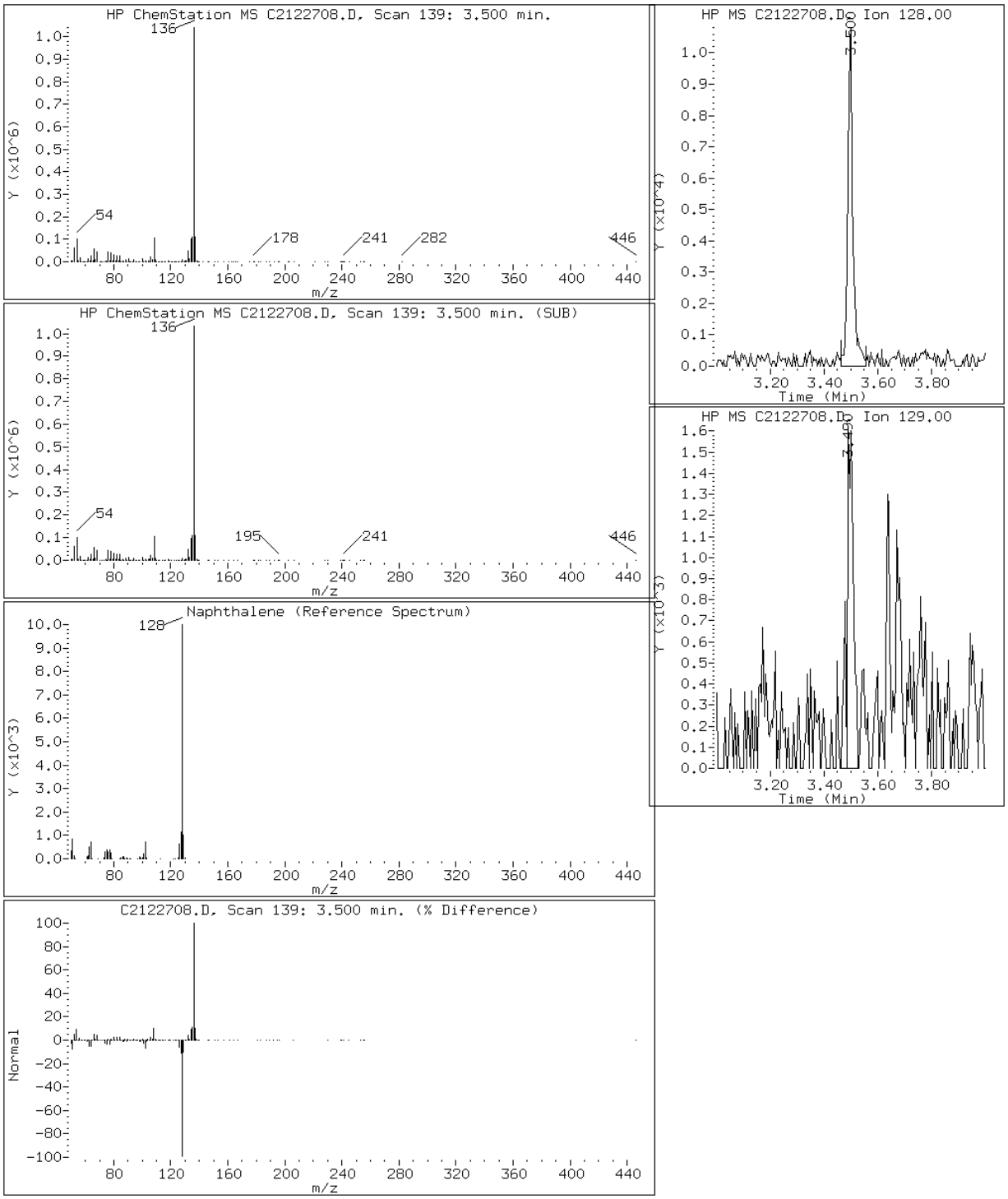
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

2 Naphthalene



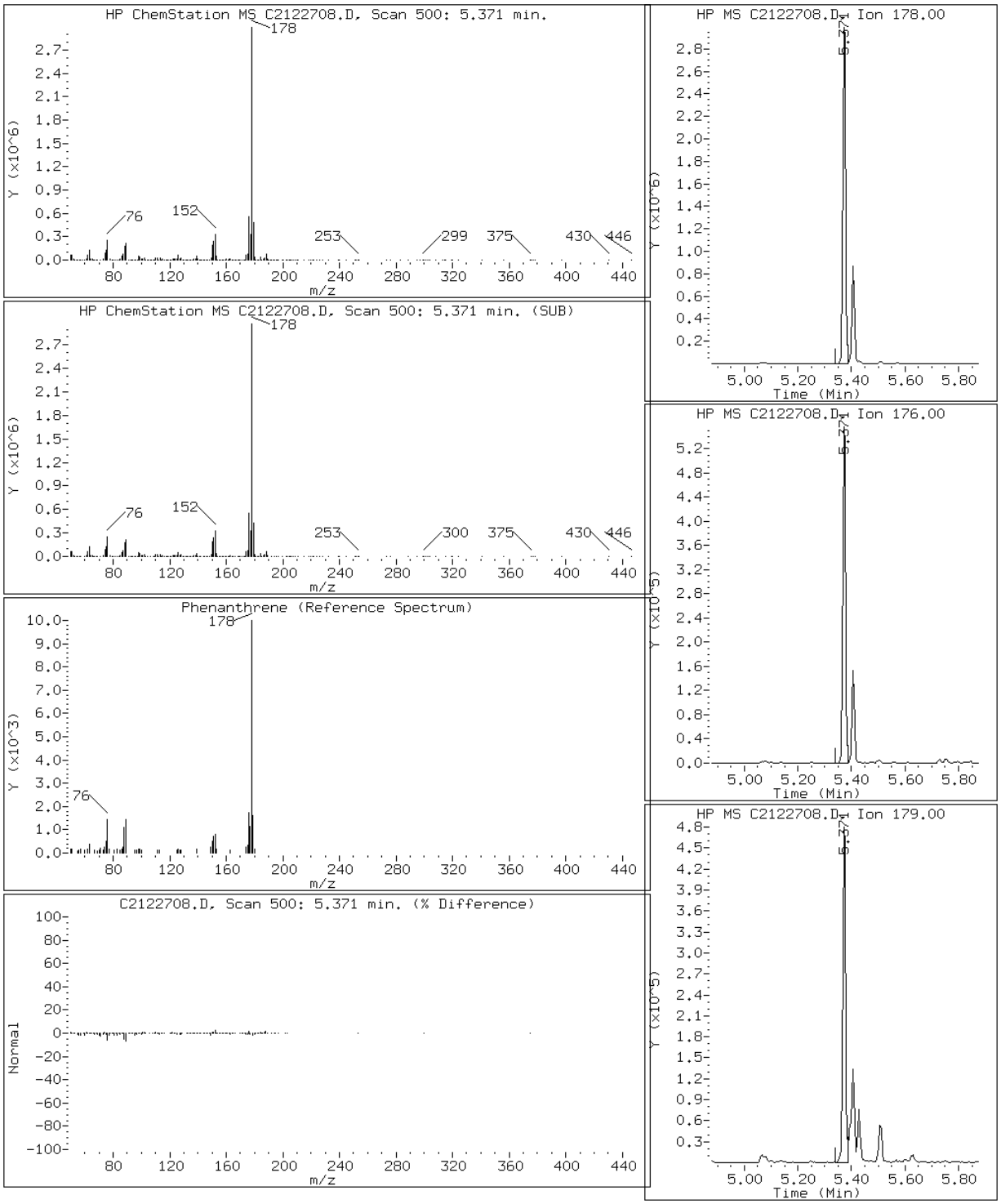
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

10 Phenanthrene



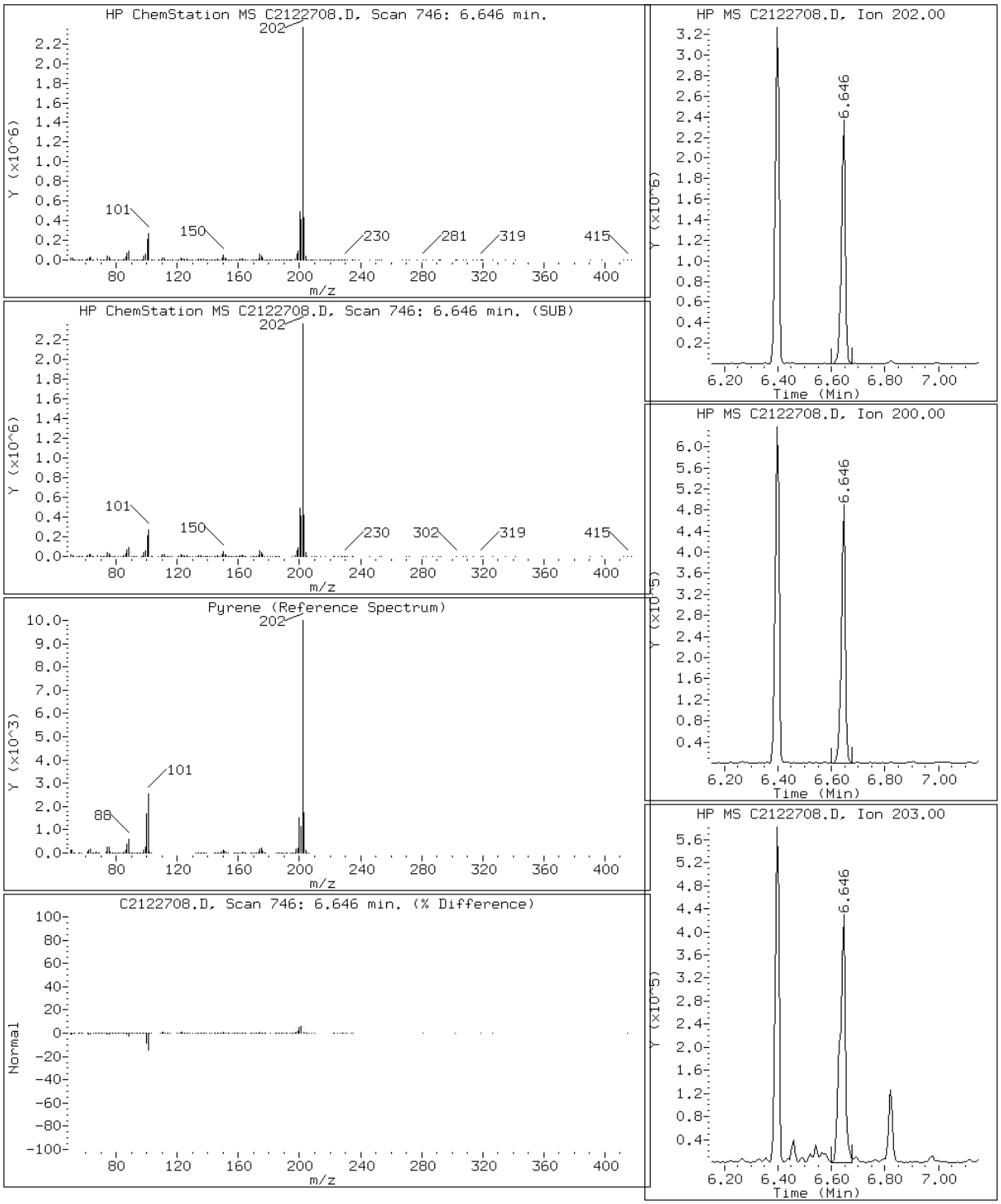
Data File: C2122708.D

Date: 27-DEC-2012 09:22

Client ID: CV0511A-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-31-A~98122~100~8270DLL Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511B-CS | Lab Sample ID: 680-85785-32

Matrix: Solid | Lab File ID: C2122709.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:05

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.53(g) | Date Analyzed: 12/27/2012 09:41

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 2

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

% Moisture: 29.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	51		19	1.6
208-96-8	Acenaphthylene	21		19	1.5
120-12-7	Anthracene	130		19	1.8
56-55-3	Benzo[a]anthracene	510		19	1.7
50-32-8	Benzo[a]pyrene	590		19	1.9
205-99-2	Benzo[b]fluoranthene	790		19	2.6
191-24-2	Benzo[g,h,i]perylene	400		19	3.1
207-08-9	Benzo[k]fluoranthene	320		19	1.8
218-01-9	Chrysene	620		19	2.1
53-70-3	Dibenz(a,h)anthracene	120		19	1.8
206-44-0	Fluoranthene	1000		19	1.7
86-73-7	Fluorene	44		19	1.4
193-39-5	Indeno[1,2,3-cd]pyrene	430		19	3.1
90-12-0	1-Methylnaphthalene	23		19	1.5
91-57-6	2-Methylnaphthalene	32		19	1.4
91-20-3	Naphthalene	23		19	1.4
85-01-8	Phenanthrene	580		19	1.2
129-00-0	Pyrene	820		19	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	80		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122709.D
Lab Smp Id: 680-85785-A-32-A Client Smp ID: CV0511B-CS
Inj Date : 27-DEC-2012 09:41
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-32-A~98122~2~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 3
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.530	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.277	3.282	(0.941)	76415	1.11552	73	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	6366212	40.0000		
2 Naphthalene	128	3.494	3.500	(1.003)	38655	0.24846	16	
3 2-Methylnaphthalene	142	3.862	3.863	(1.109)	40434	0.34246	22	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	28968	0.25012	16	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3564634	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	42574	0.22227	14	
7 Acenaphthene	154	4.458	4.459	(1.003)	55355	0.55237	36(M)	SP
8 Fluorene	166	4.748	4.754	(1.069)	62879	0.47002	31	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5786693	40.0000		
10 Phenanthrene	178	5.370	5.376	(1.003)	1010139	6.26895	410	
11 Anthracene	178	5.406	5.412	(1.010)	237212	1.35672	89	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	169262	1.59448	100	
13 Fluoranthene	202	6.396	6.402	(1.195)	2404005	11.1389	730	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	6187448	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2038083	8.79207	580	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	1160205	5.47416	360	
17 Chrysene	228	8.324	8.330	(1.004)	1230430	6.71805	440	
* 18 Perylene-d12	264	10.739	10.734	(1.000)	7416480	40.0000		
19 Benzo(b)fluoranthene	252	10.060	10.061	(0.937)	2004653	8.48492	560	
20 Benzo(k)fluoranthene	252	10.102	10.107	(0.941)	787374	3.43162	220	
21 Benzo(a)pyrene	252	10.609	10.610	(0.988)	1323557	6.31609	410	
22 Indeno(1,2,3-cd)pyrene	276	12.459	12.460	(1.160)	1047904	4.67849	310	
23 Dibenzo(a,h)anthracene	278	12.491	12.501	(1.163)	279262	1.28981	84(M)	SP
24 Benzo(g,h,i)perylene	276	12.874	12.869	(1.199)	954201	4.33855	280	

QC Flag Legend

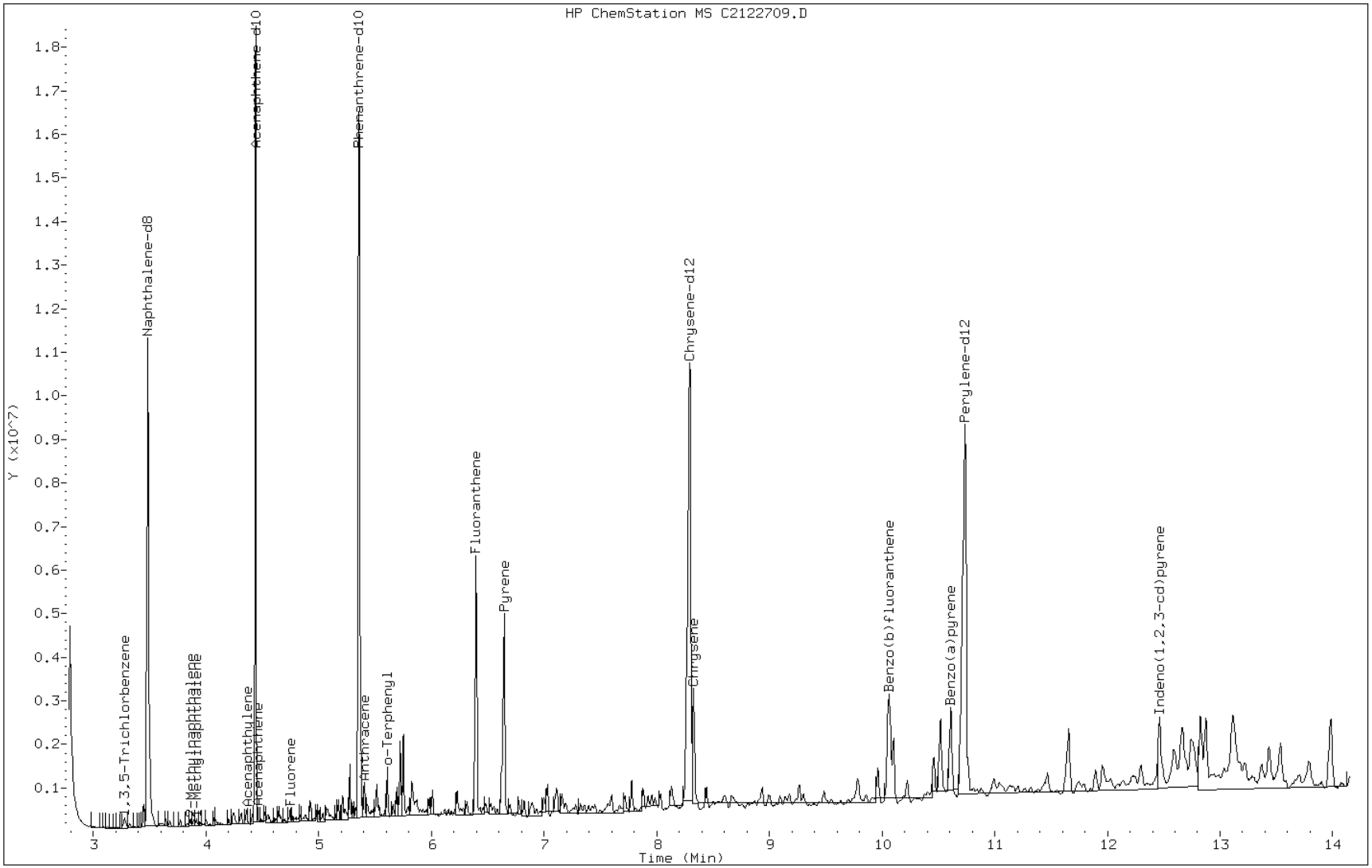
M - Compound response manually integrated.

Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW



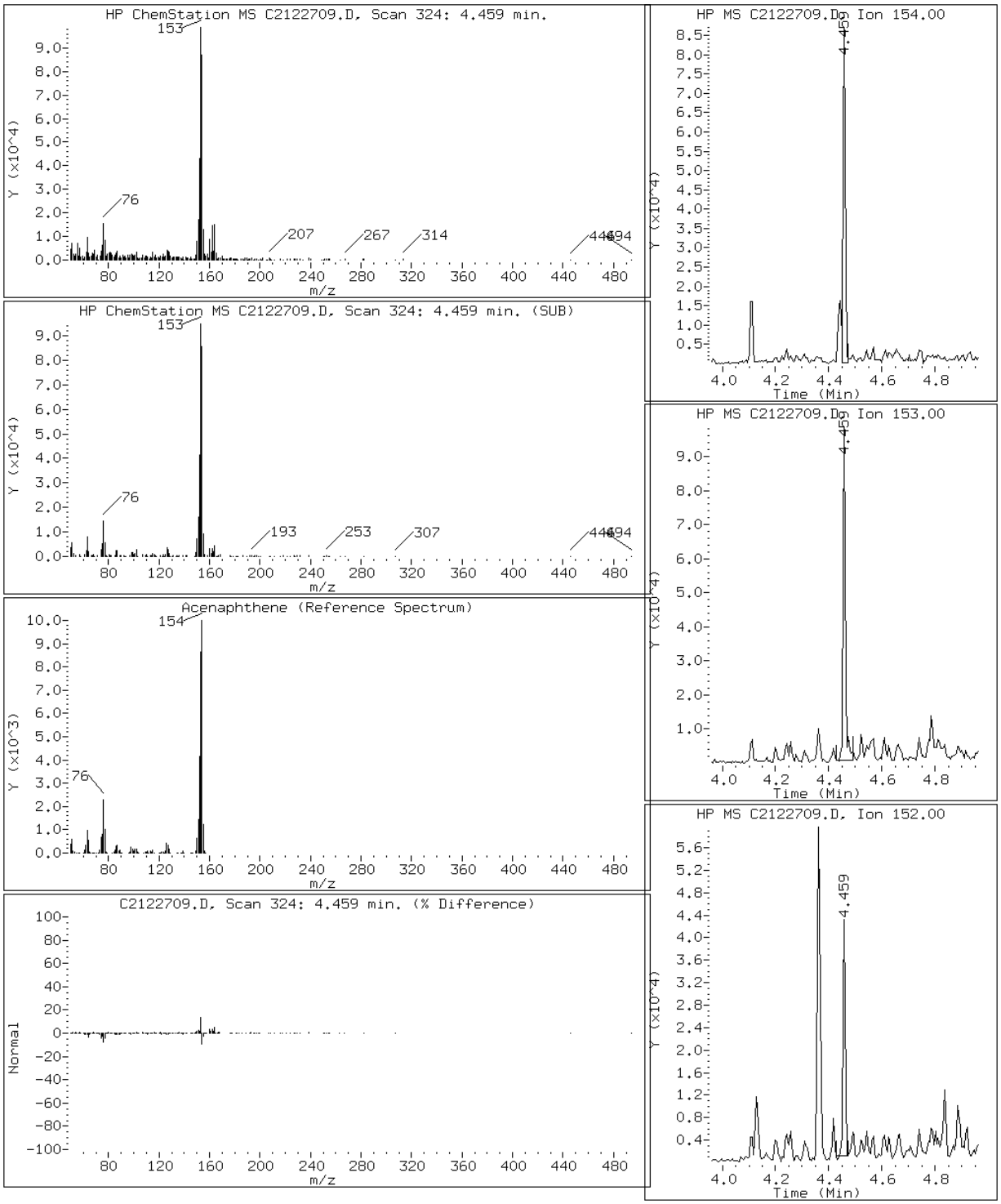
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

7 Acenaphthene



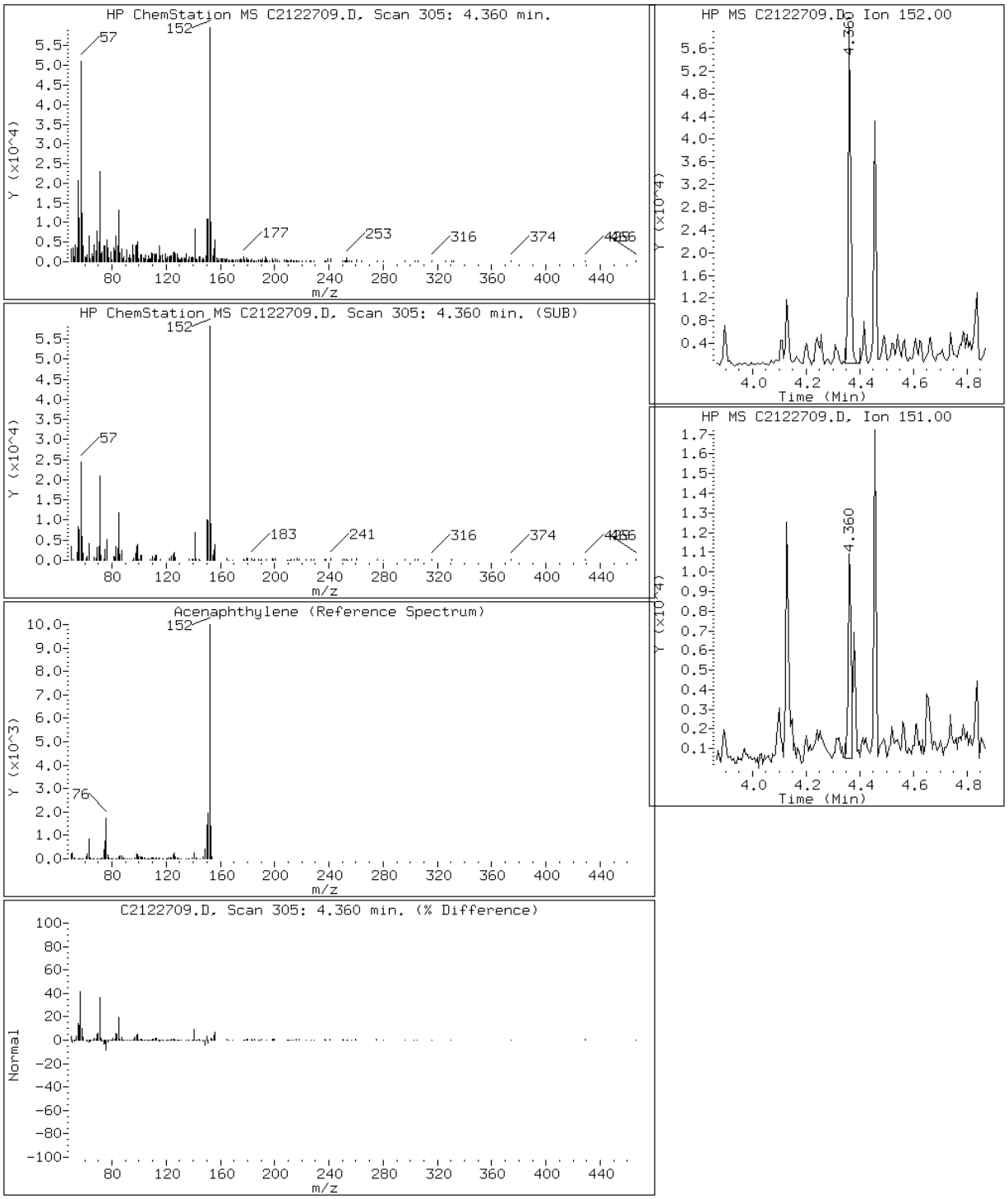
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

6 Acenaphthylene



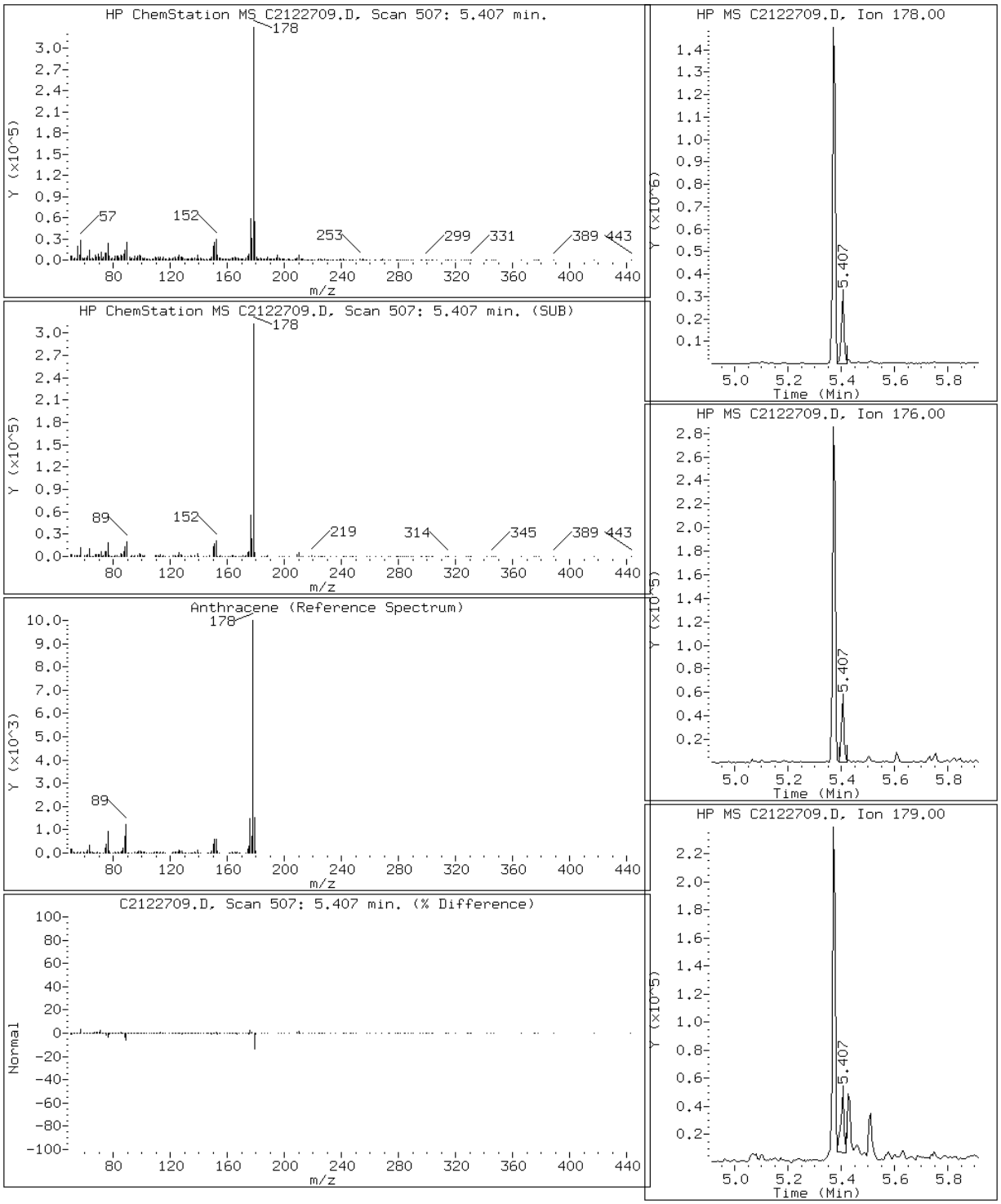
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

11 Anthracene



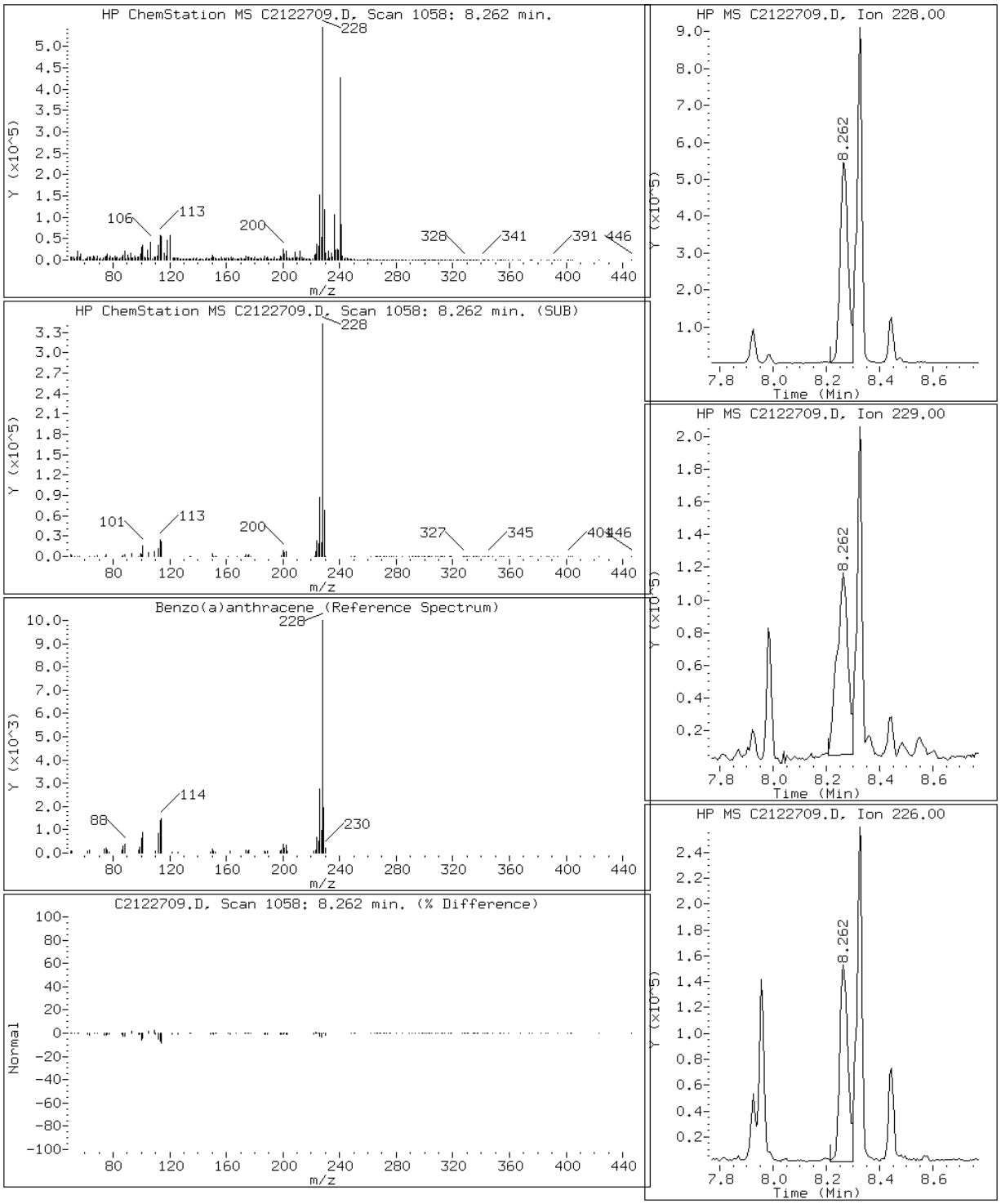
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

16 Benzo(a)anthracene



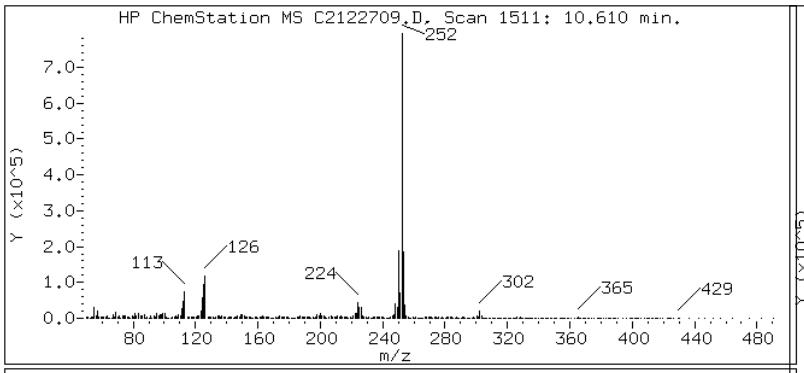
Data File: C2122709.D

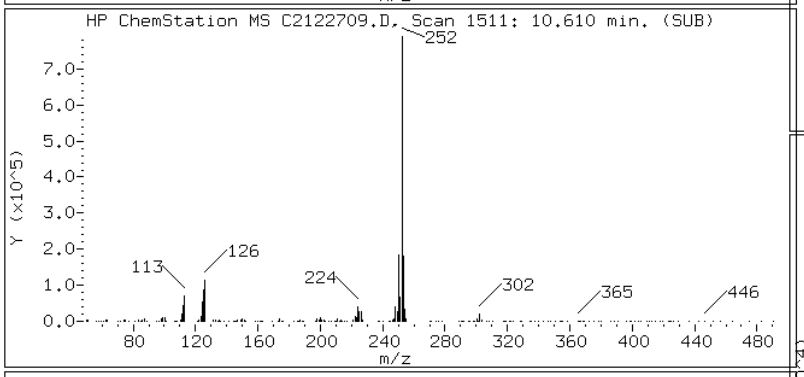
Date: 27-DEC-2012 09:41

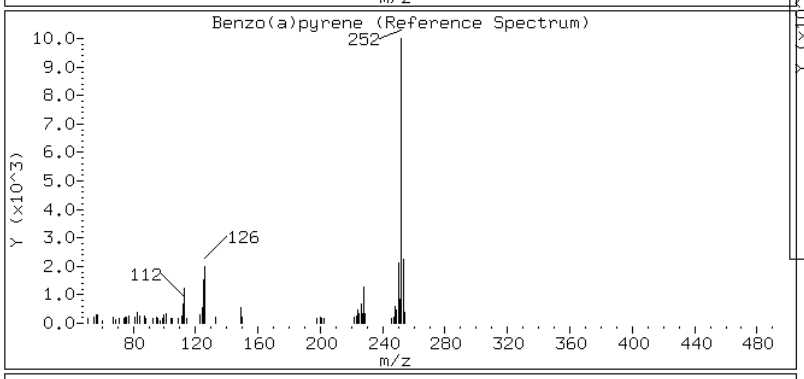
Client ID: CV0511B-CS Instrument: TSMC5973.i

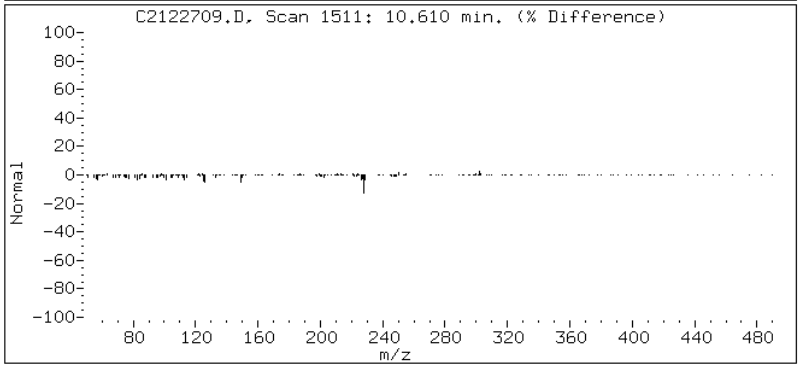
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

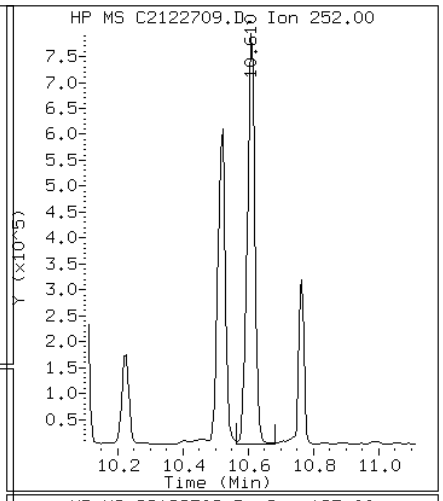
21 Benzo(a)pyrene

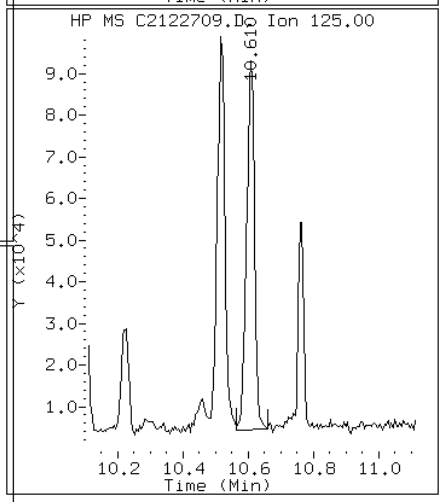












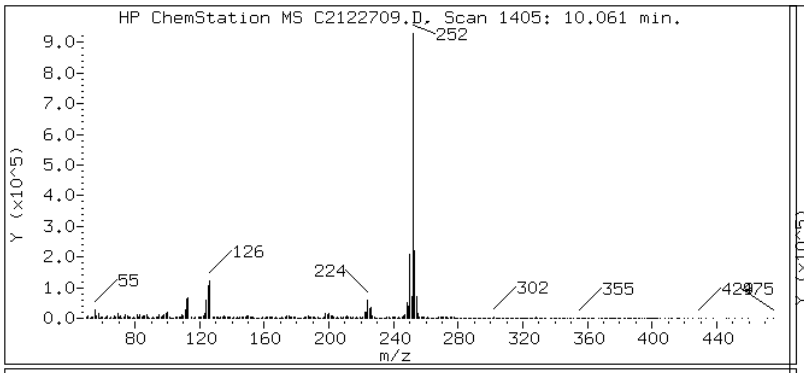
Data File: C2122709.D

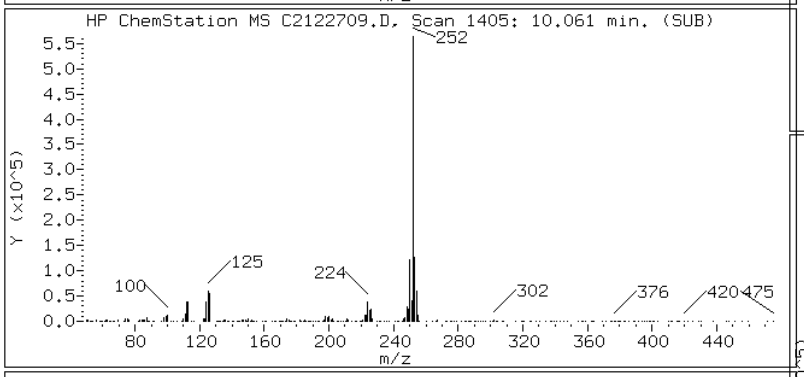
Date: 27-DEC-2012 09:41

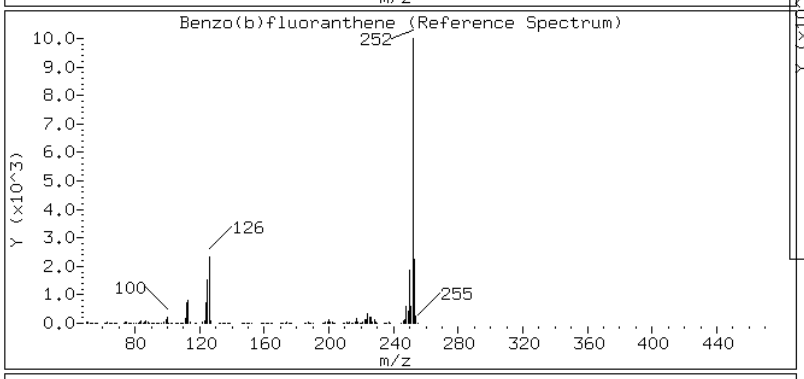
Client ID: CV0511B-CS Instrument: TSMC5973.i

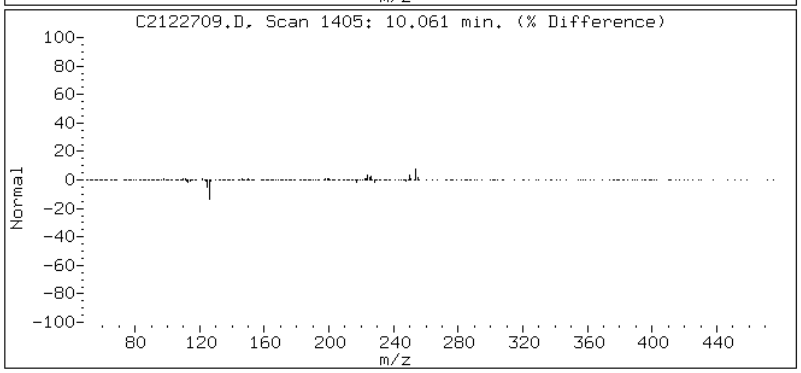
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

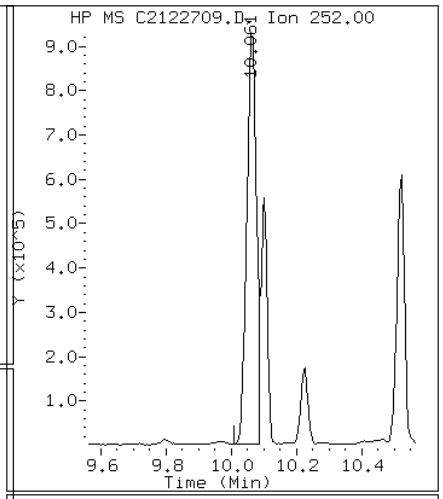
19 Benzo(b)fluoranthene

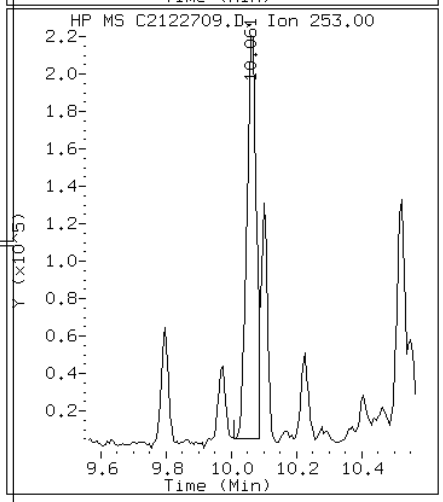












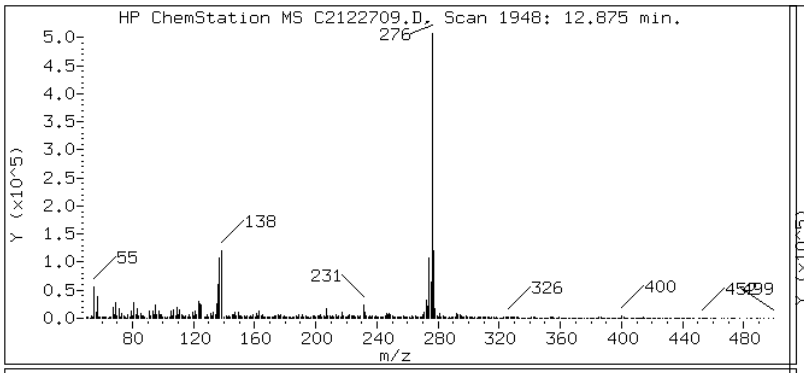
Data File: C2122709.D

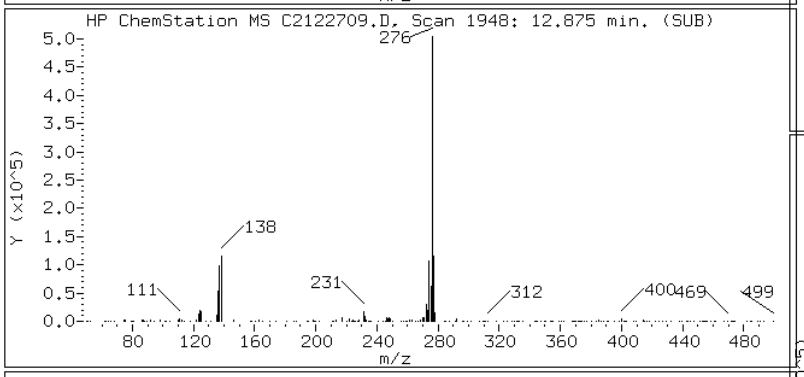
Date: 27-DEC-2012 09:41

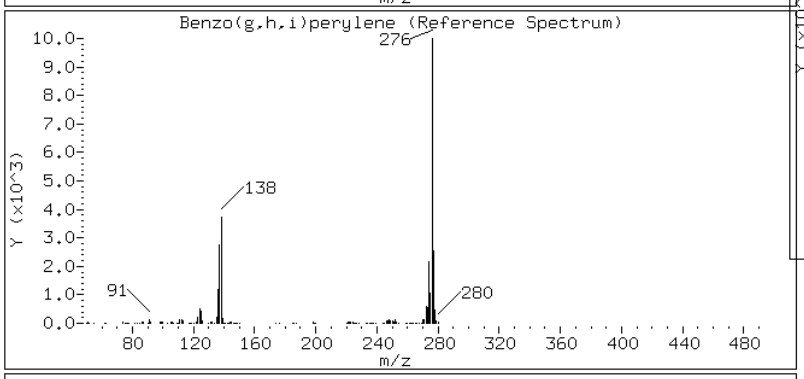
Client ID: CV0511B-CS Instrument: TSMC5973.i

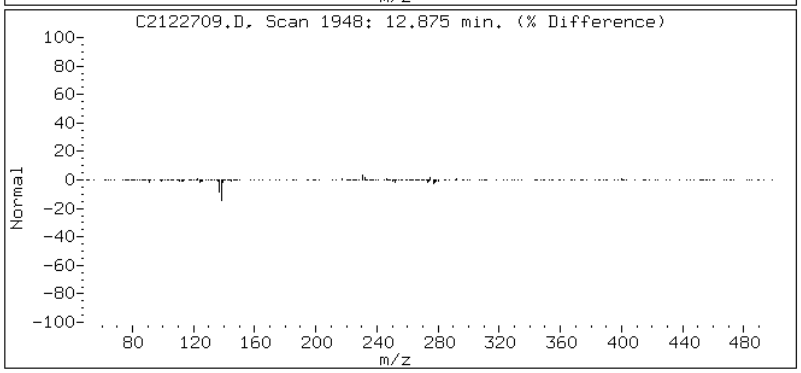
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

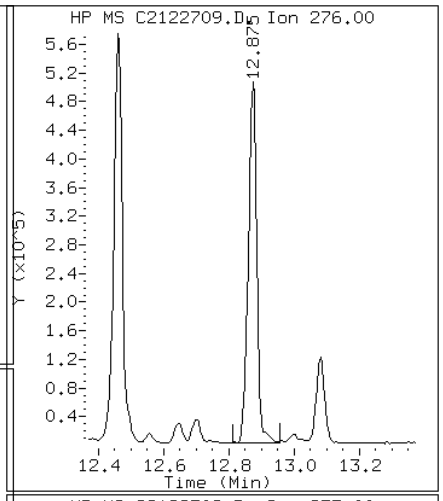
24 Benzo(g,h,i)perylene

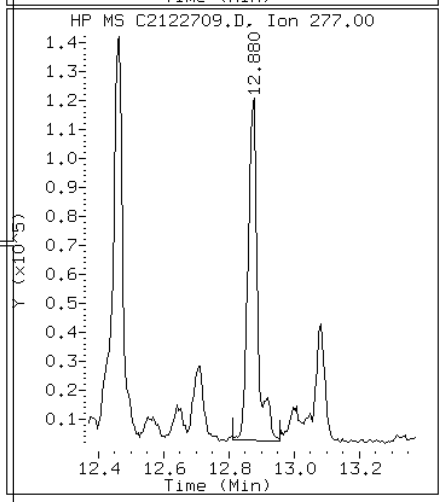












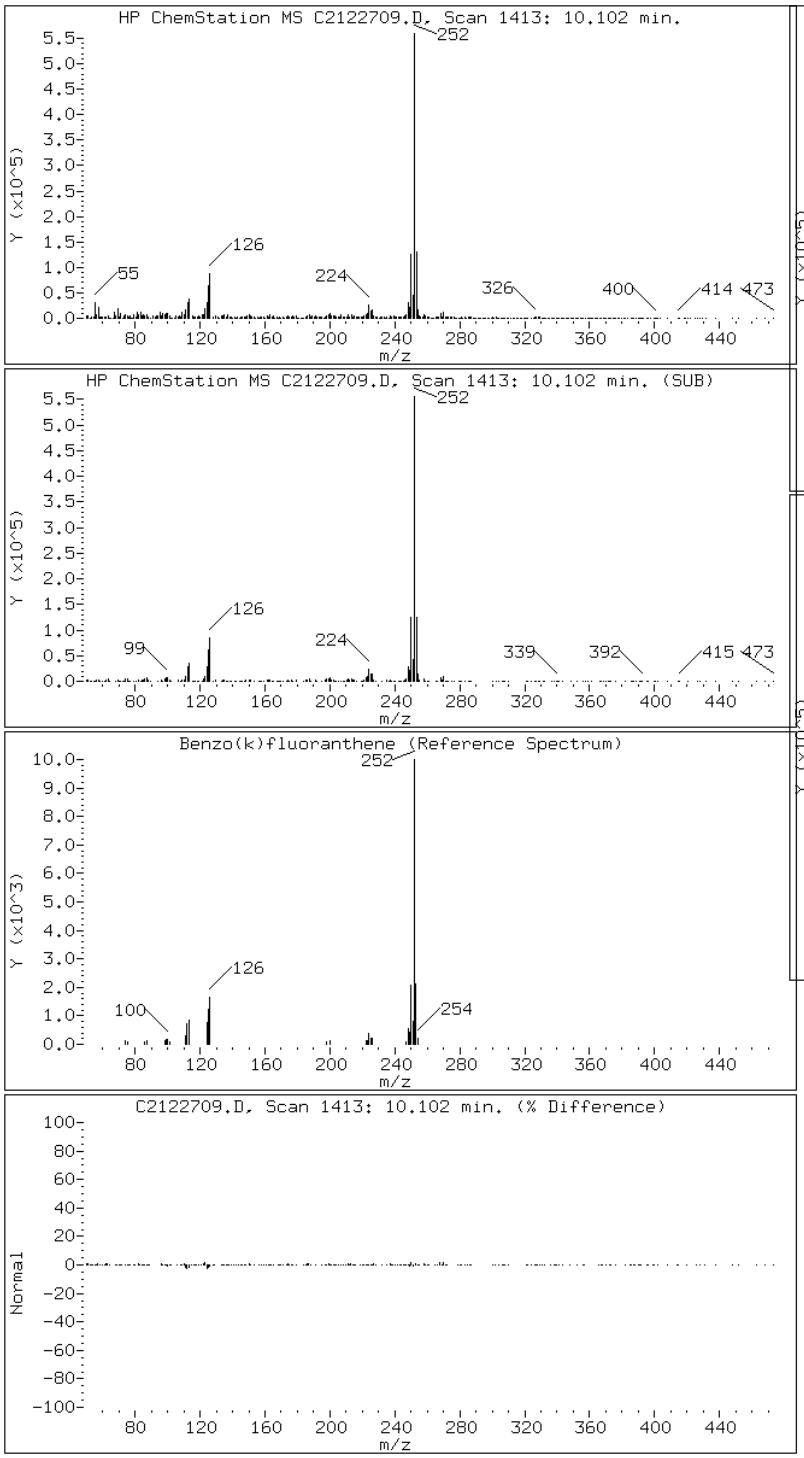
Data File: C2122709.D

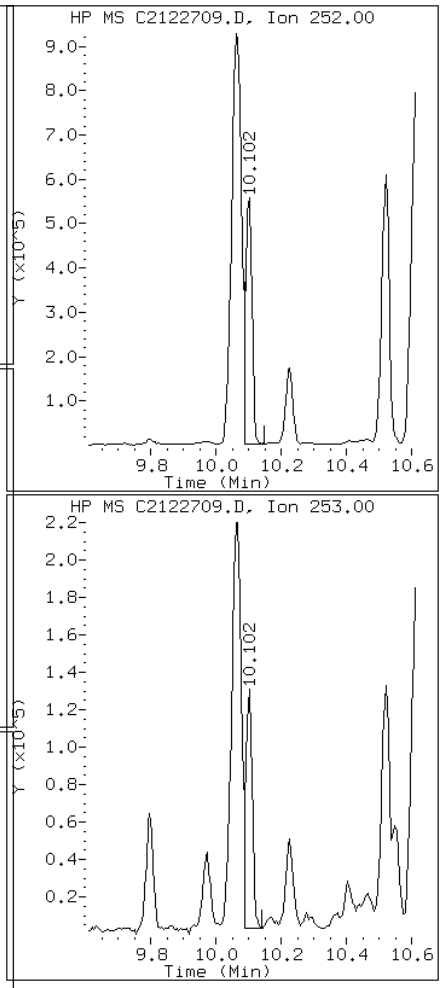
Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

20 Benzo(k)fluoranthene





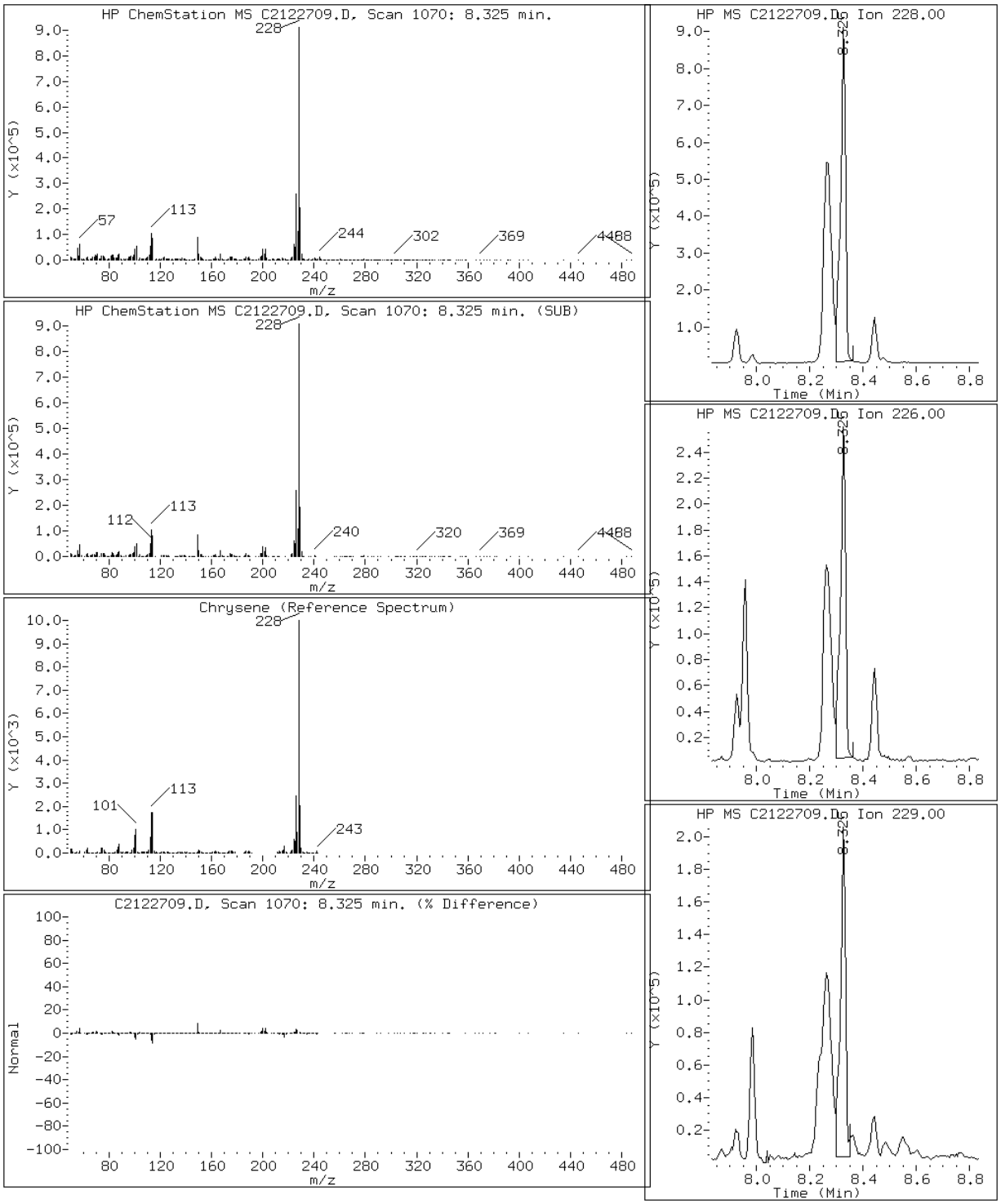
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

17 Chrysene



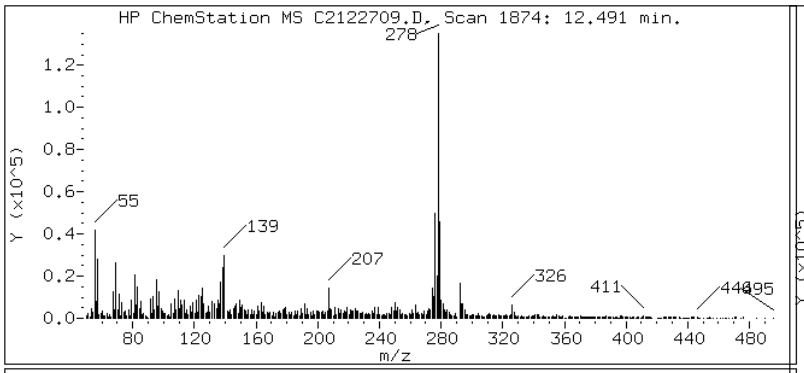
Data File: C2122709.D

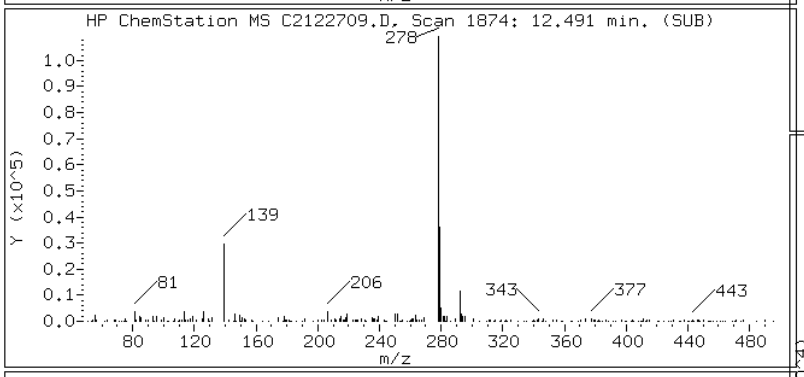
Date: 27-DEC-2012 09:41

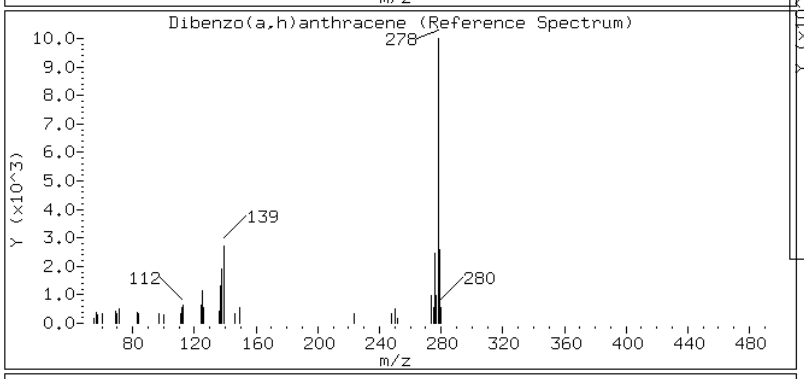
Client ID: CV0511B-CS Instrument: TSMC5973.i

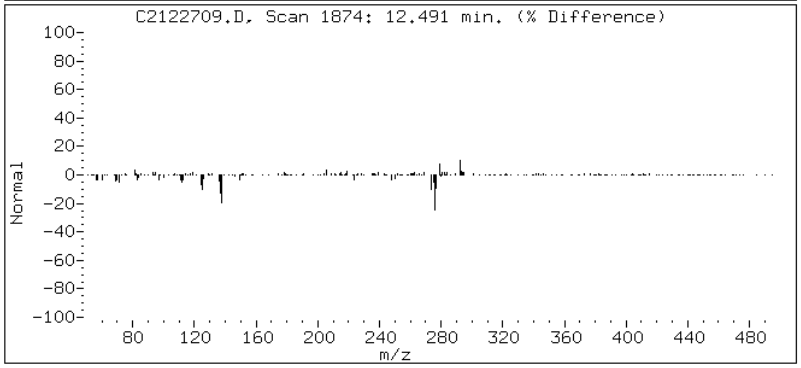
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

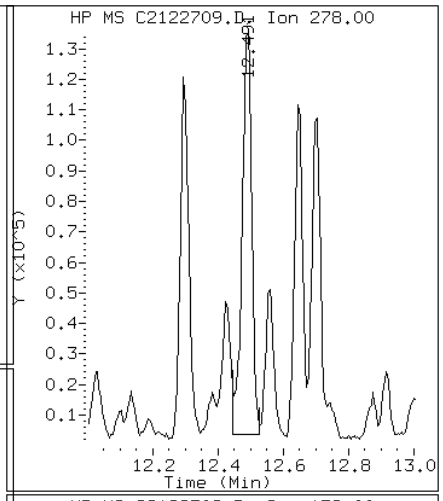
23 Dibenzo(a,h)anthracene

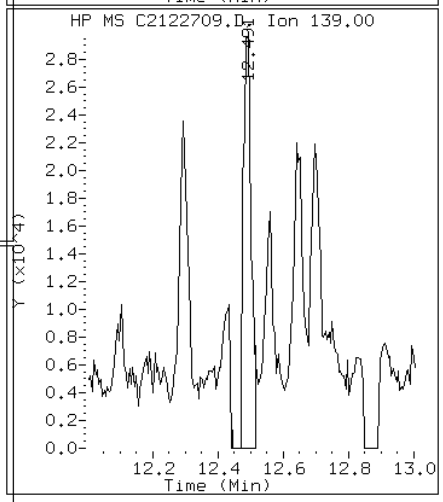












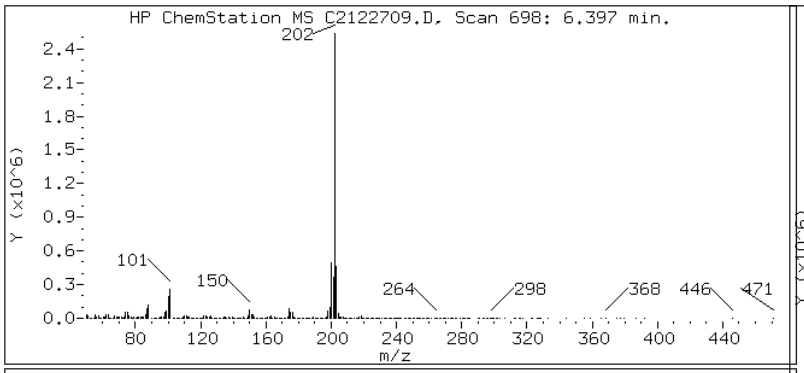
Data File: C2122709.D

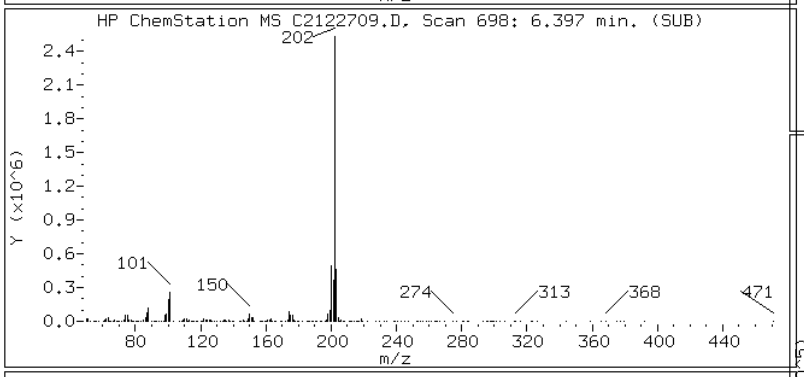
Date: 27-DEC-2012 09:41

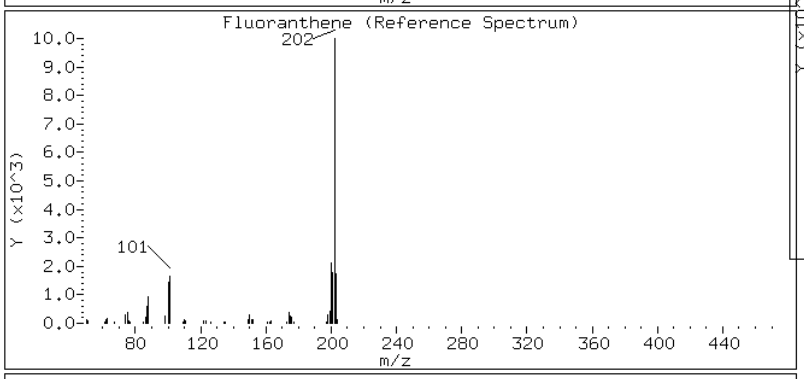
Client ID: CV0511B-CS Instrument: TSMC5973.i

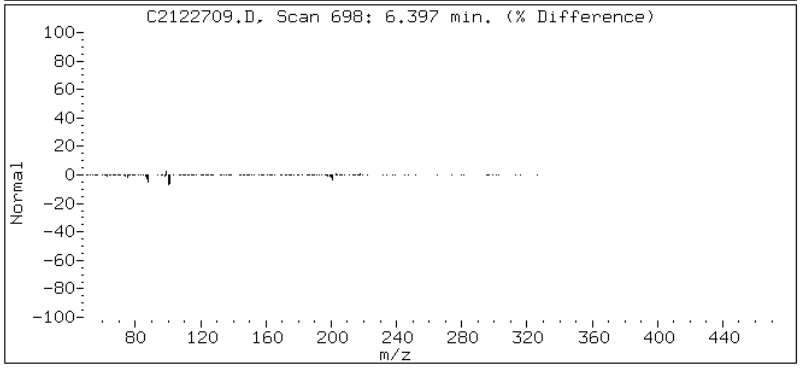
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

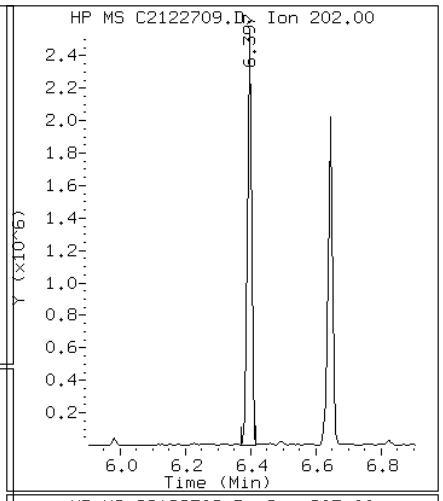
13 Fluoranthene

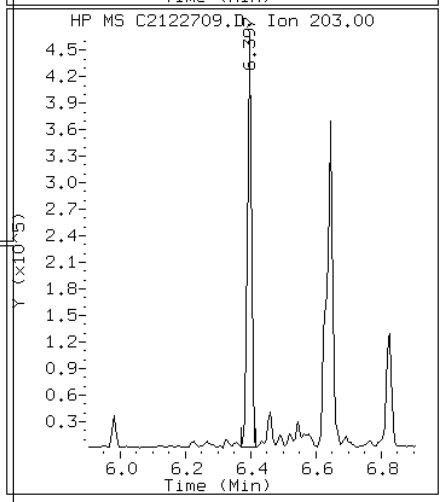












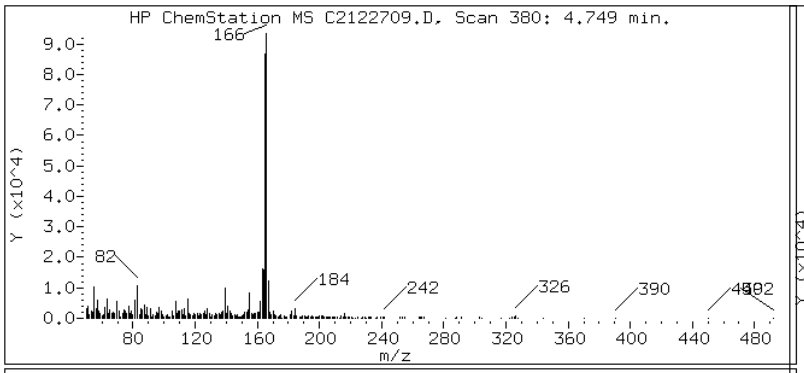
Data File: C2122709.D

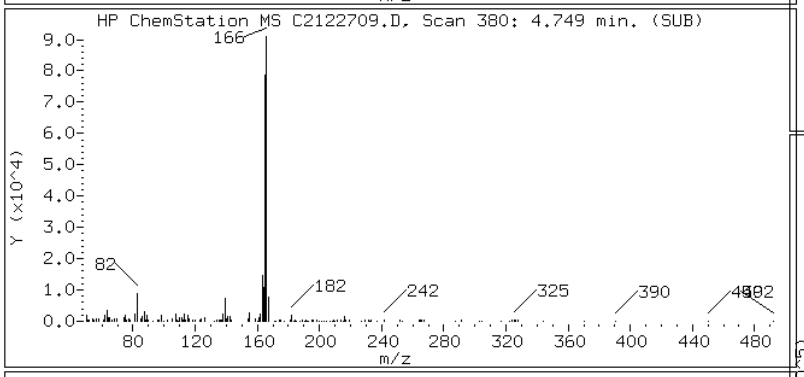
Date: 27-DEC-2012 09:41

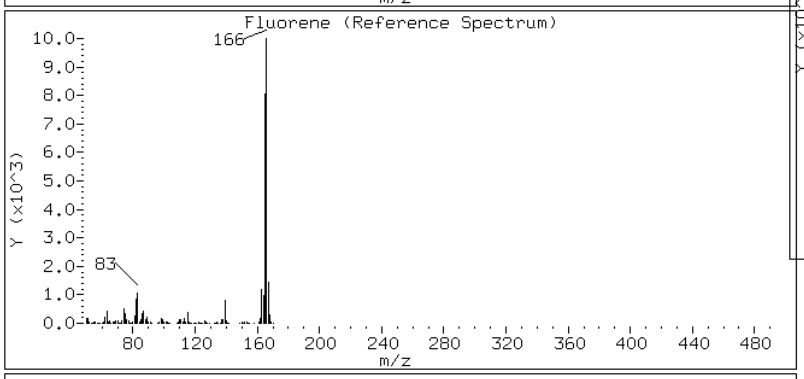
Client ID: CV0511B-CS Instrument: TSMC5973.i

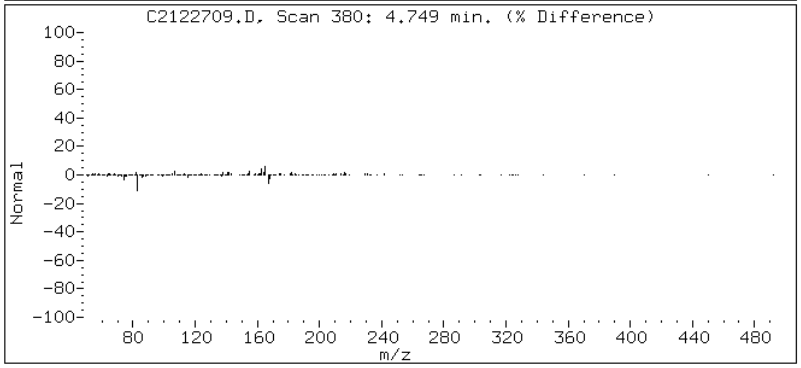
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

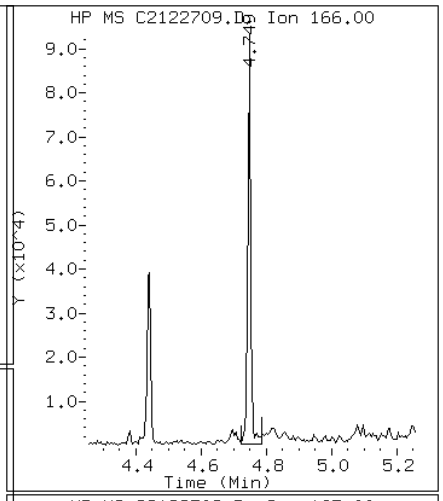
8 Fluorene

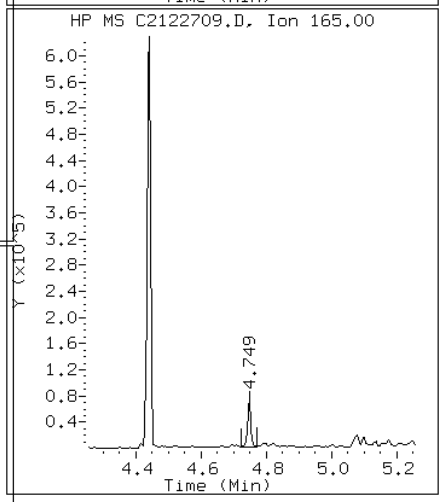












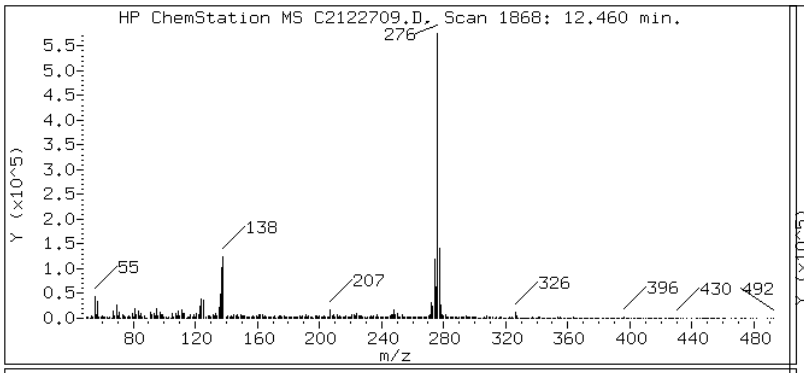
Data File: C2122709.D

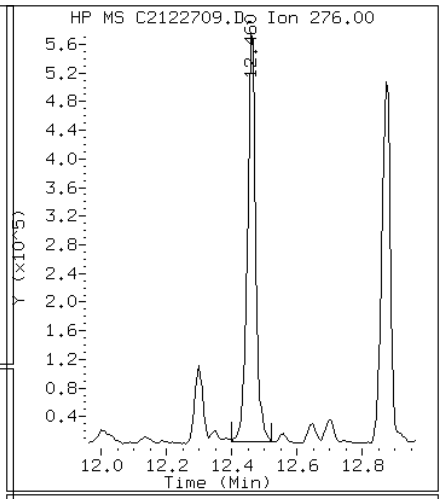
Date: 27-DEC-2012 09:41

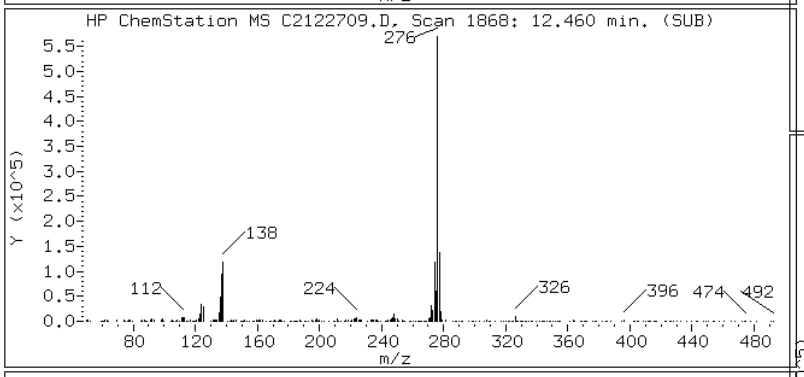
Client ID: CV0511B-CS Instrument: TSMC5973.i

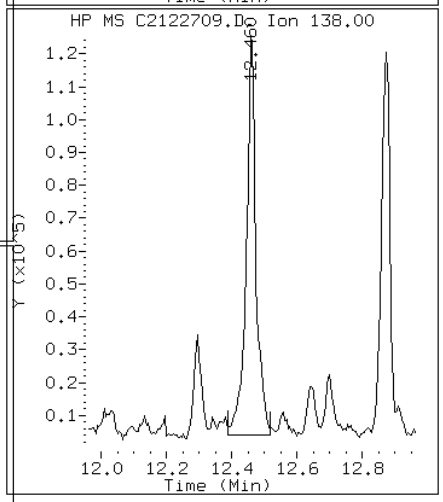
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

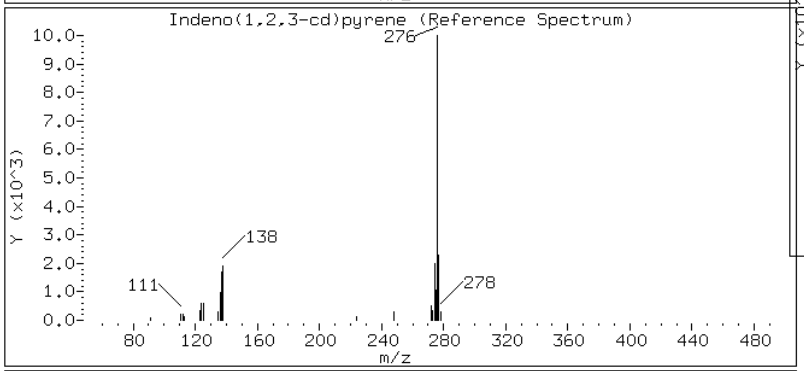
22 Indeno(1,2,3-cd)pyrene

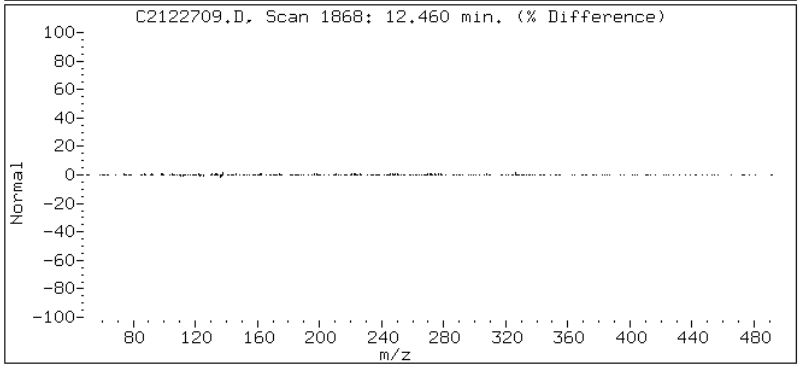












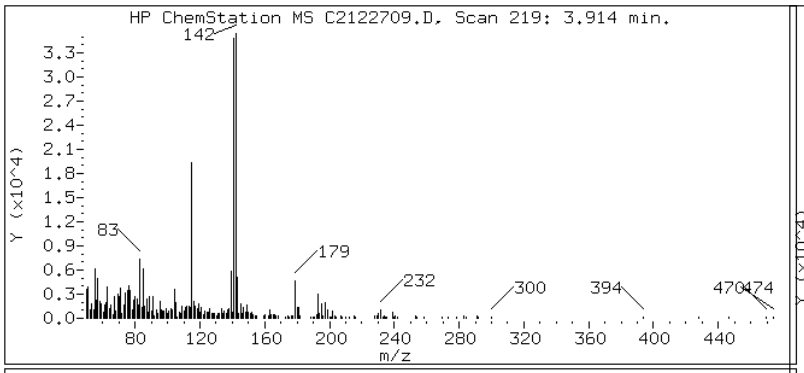
Data File: C2122709.D

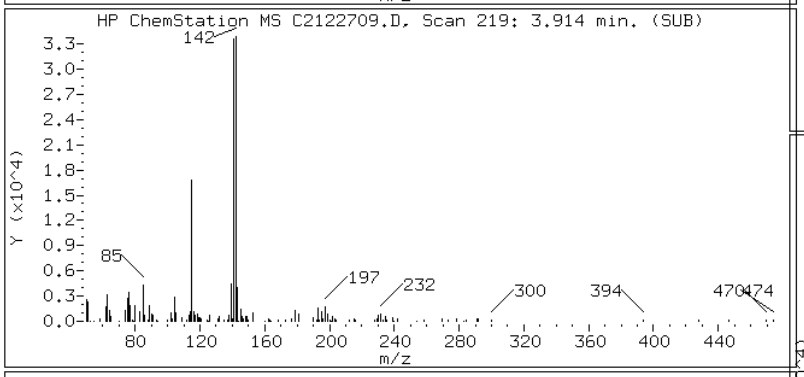
Date: 27-DEC-2012 09:41

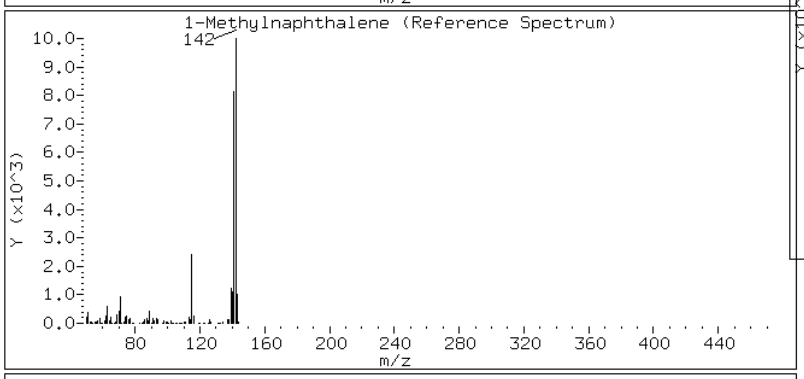
Client ID: CV0511B-CS Instrument: TSMC5973.i

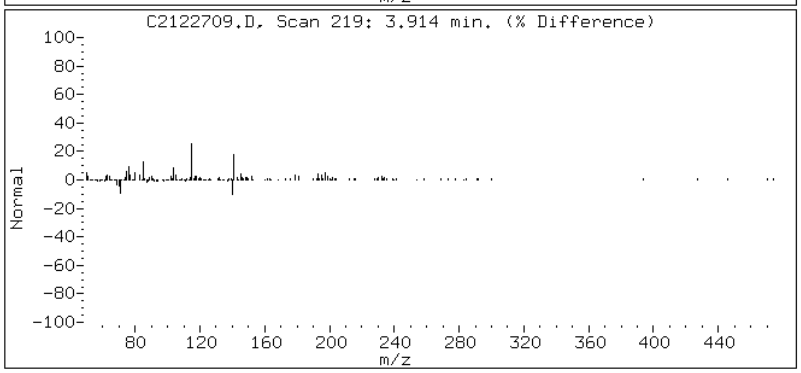
Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

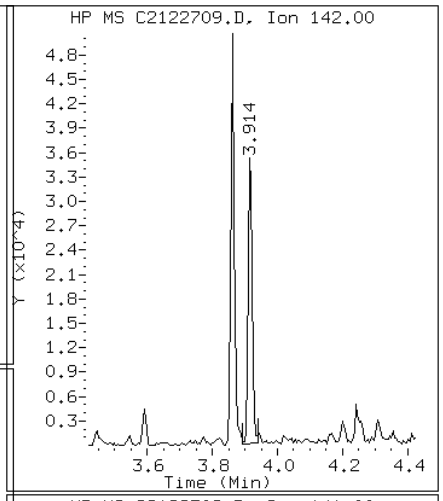
4 1-Methylnaphthalene

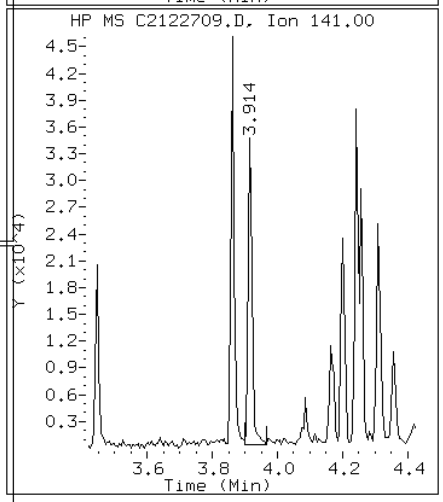












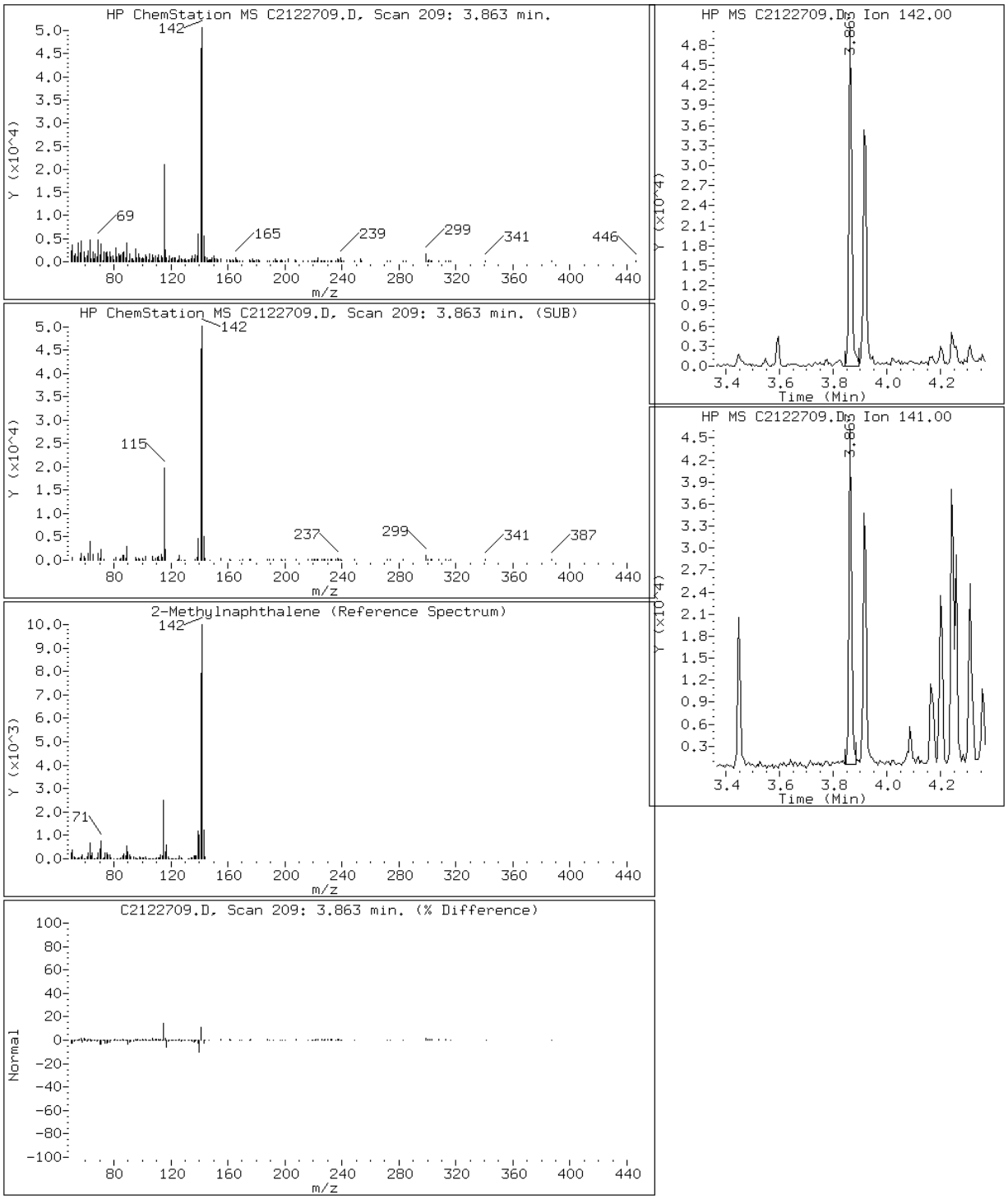
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

3 2-Methylnaphthalene



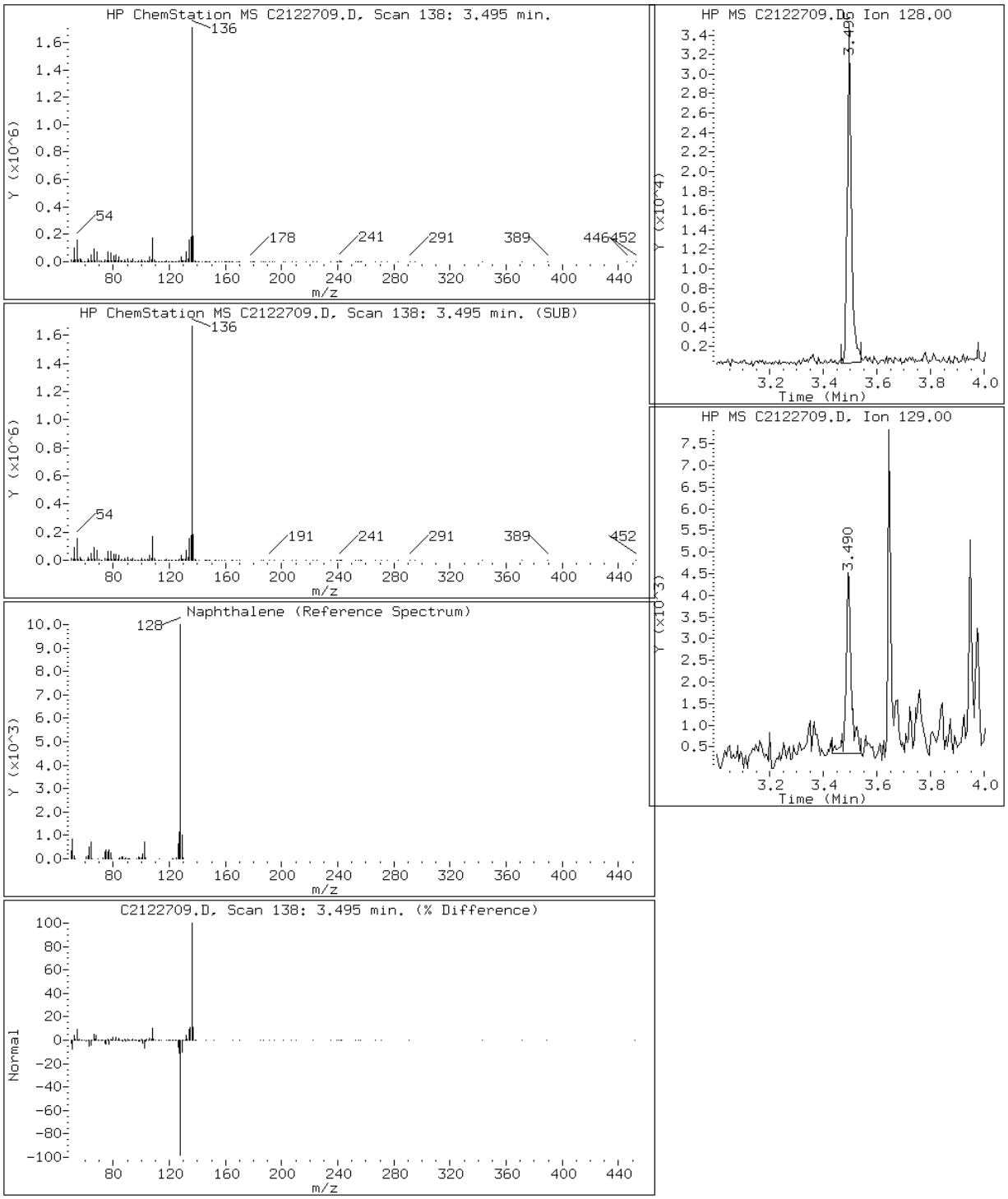
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

2 Naphthalene



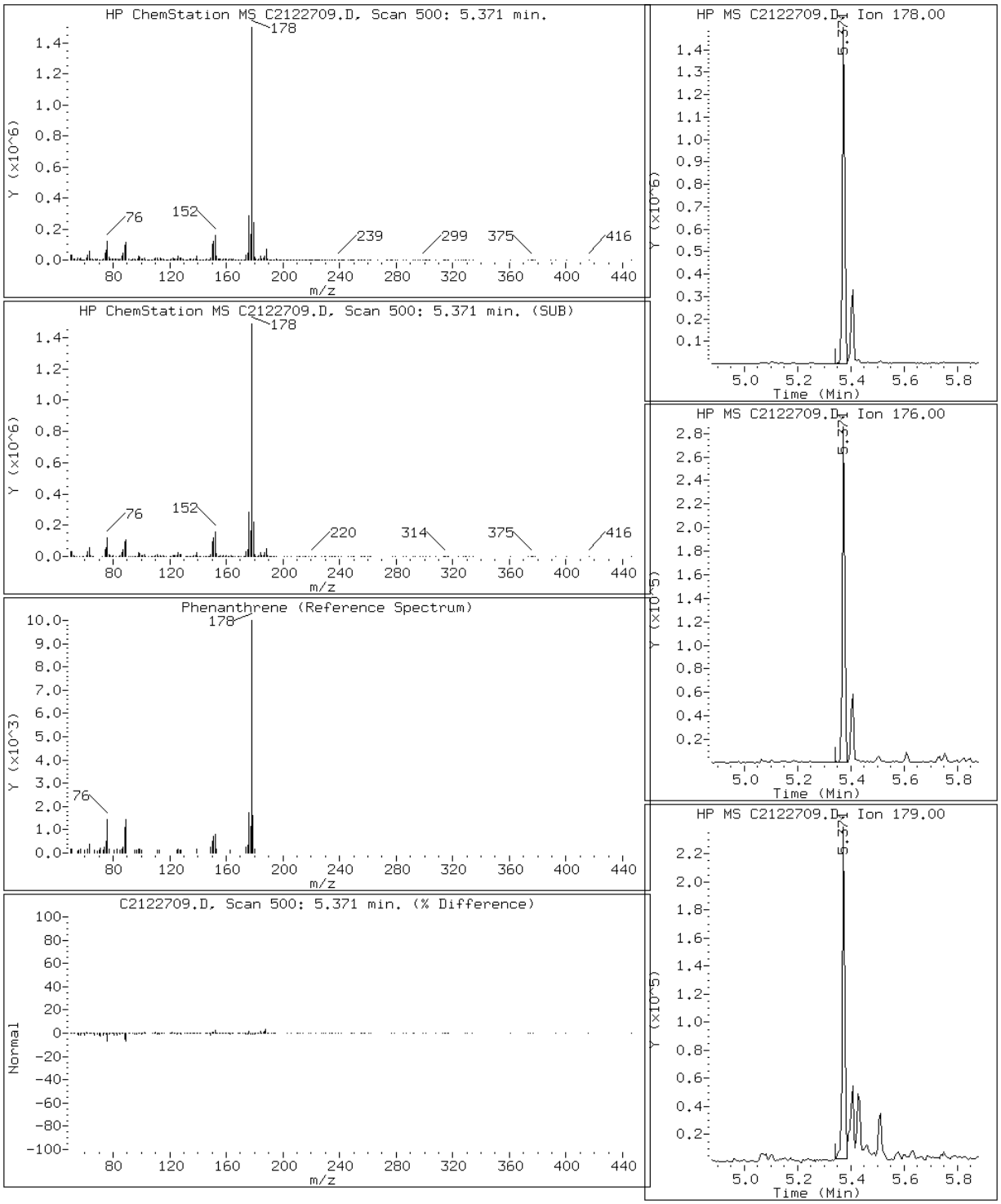
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

10 Phenanthrene



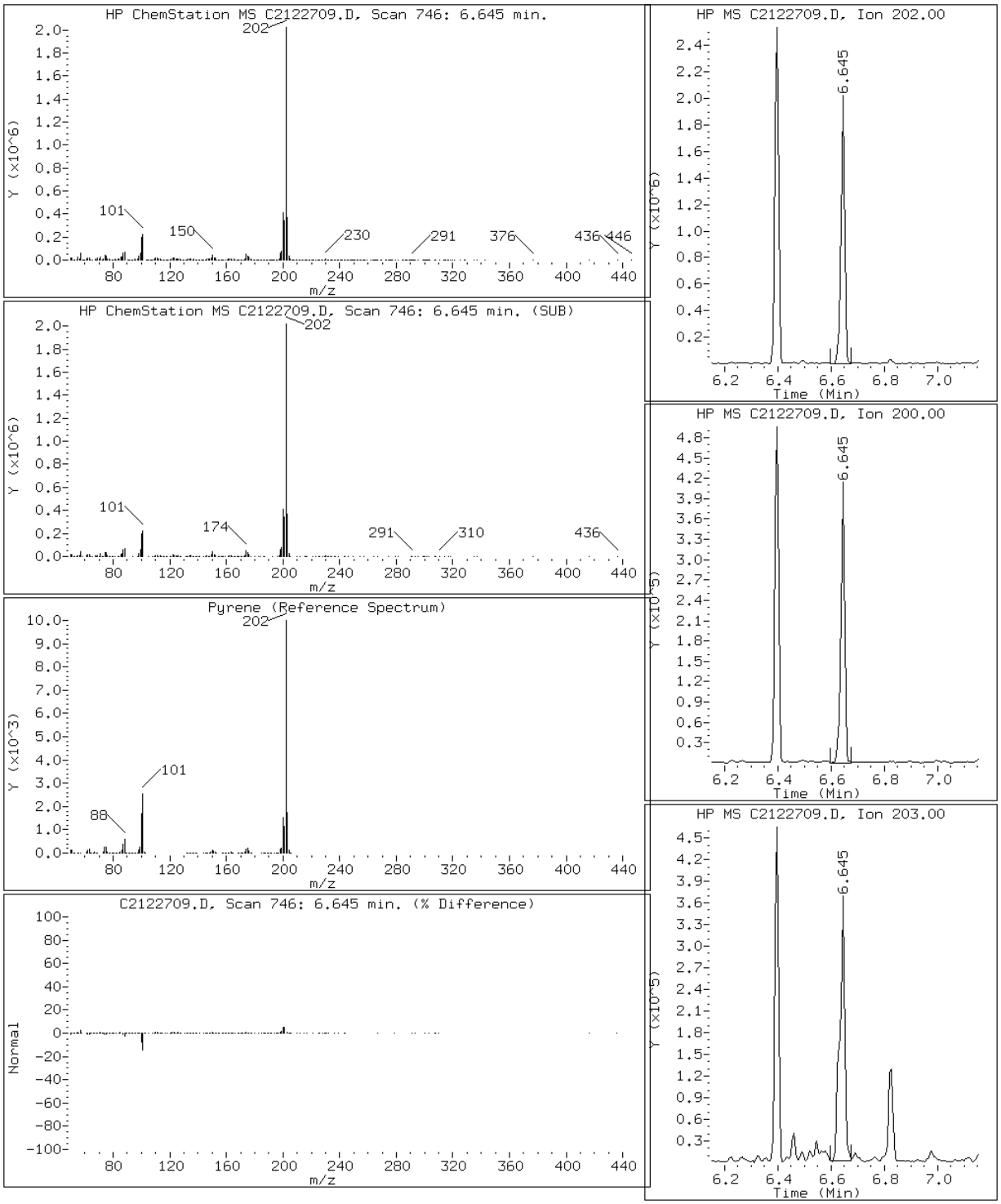
Data File: C2122709.D

Date: 27-DEC-2012 09:41

Client ID: CV0511B-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-32-A~98122~2~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122709.D
Inj. Date and Time: 27-DEC-2012 09:41
Instrument ID: TSMC5973.i
Client ID: CV0511B-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

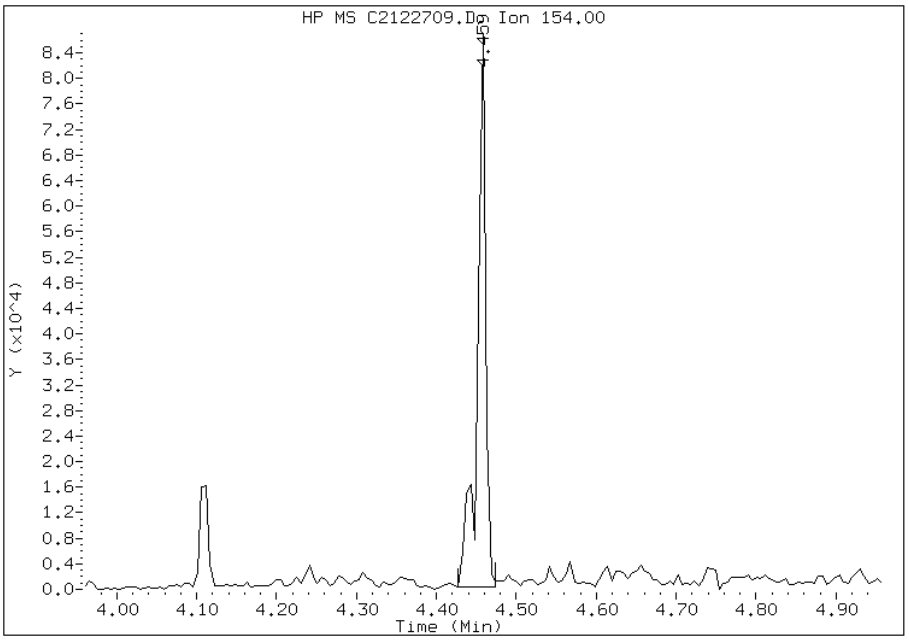
Processing Integration Results

RT: 4.46

Response: 66294

Amount: 1

Conc: 43



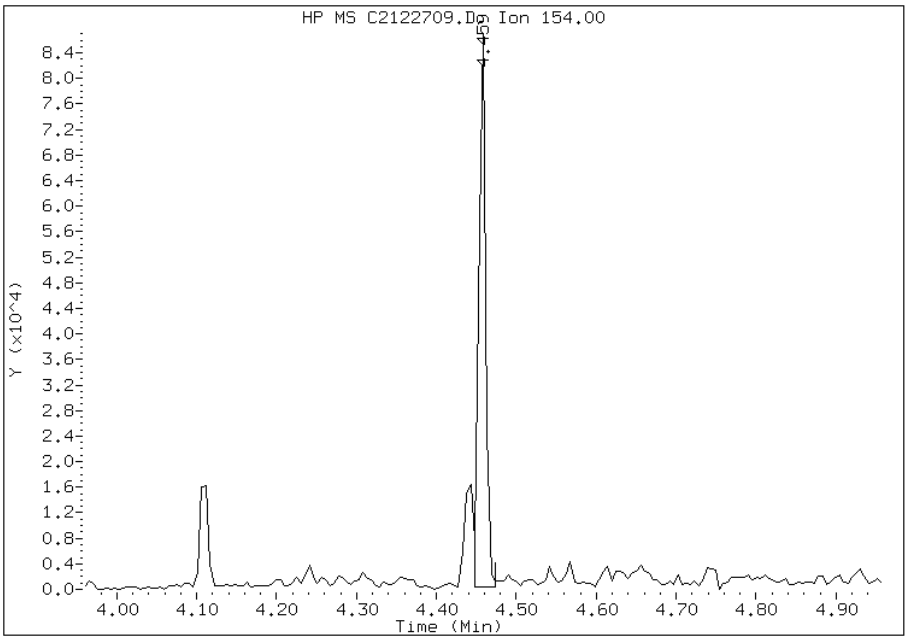
Manual Integration Results

RT: 4.46

Response: 55355

Amount: 1

Conc: 36



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:24
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122709.D
Inj. Date and Time: 27-DEC-2012 09:41
Instrument ID: TSMC5973.i
Client ID: CV0511B-CS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

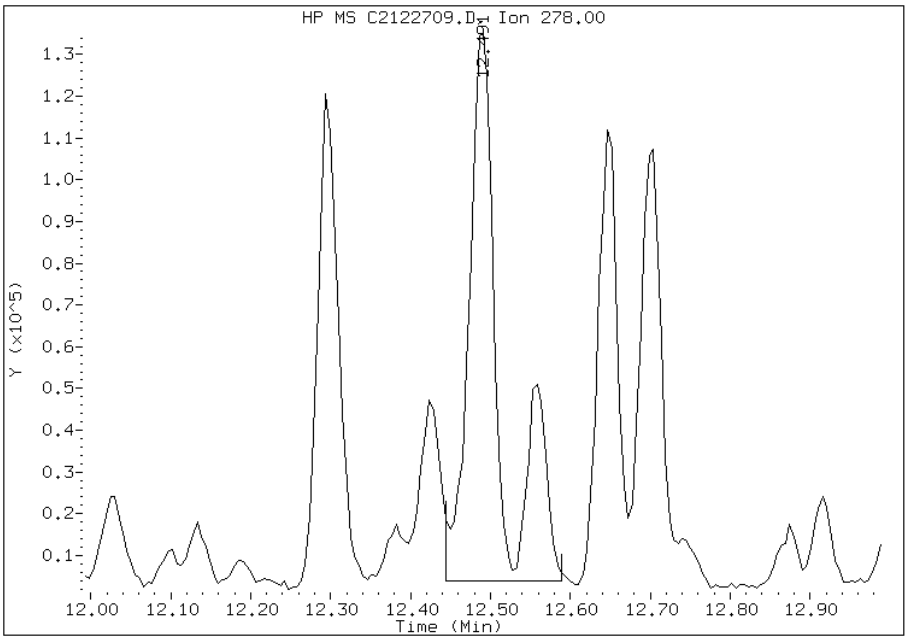
Processing Integration Results

RT: 12.49

Response: 360662

Amount: 2

Conc: 109



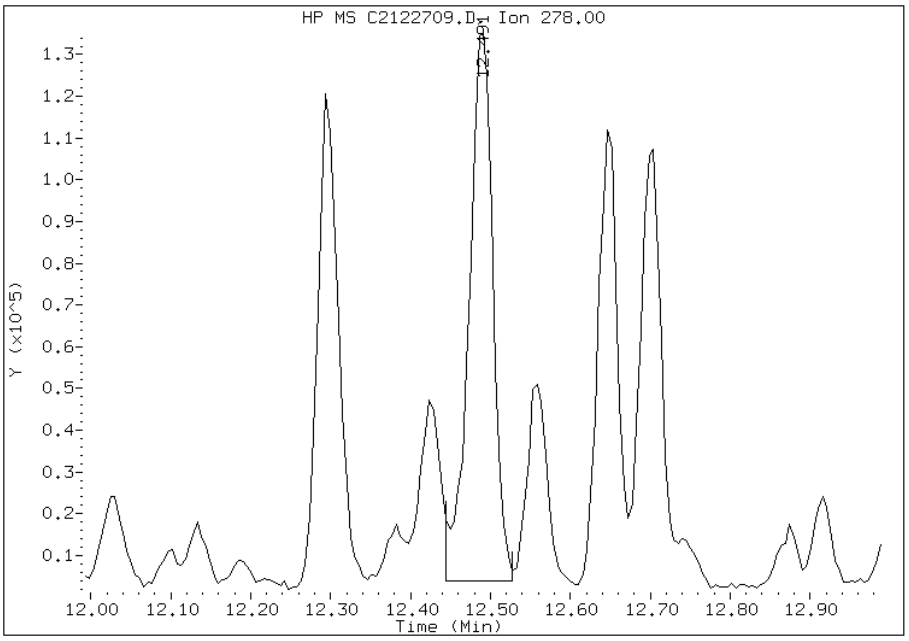
Manual Integration Results

RT: 12.49

Response: 279262

Amount: 1

Conc: 84



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511B-CSD | Lab Sample ID: 680-85785-33

Matrix: Solid | Lab File ID: C2122710.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:05

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.05(g) | Date Analyzed: 12/27/2012 10:00

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 4

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

% Moisture: 30.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	250		38	3.3
208-96-8	Acenaphthylene	20	J	38	3.0
120-12-7	Anthracene	450		38	3.8
56-55-3	Benzo[a]anthracene	1200		38	3.5
50-32-8	Benzo[a]pyrene	1200		38	3.9
205-99-2	Benzo[b]fluoranthene	1500		38	5.4
191-24-2	Benzo[g,h,i]perylene	700		38	6.3
207-08-9	Benzo[k]fluoranthene	630		38	3.7
218-01-9	Chrysene	1300		38	4.3
53-70-3	Dibenz(a,h)anthracene	190		38	3.7
206-44-0	Fluoranthene	2600		38	3.4
86-73-7	Fluorene	180		38	3.0
193-39-5	Indeno[1,2,3-cd]pyrene	810		38	6.3
90-12-0	1-Methylnaphthalene	30	J	38	3.0
91-57-6	2-Methylnaphthalene	40		38	3.0
91-20-3	Naphthalene	30	J	38	3.0
85-01-8	Phenanthrene	2000		38	2.5
129-00-0	Pyrene	2000		38	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	79		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122710.D
Lab Smp Id: 680-85785-A-33-A Client Smp ID: CV0511B-CSD
Inj Date : 27-DEC-2012 10:00
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-33-A~98122~4~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 4
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.282	3.282	(0.942)	35111	0.56611	75	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5763941	40.0000		
2 Naphthalene	128	3.494	3.500	(1.003)	22417	0.15914	21(a)	
3 2-Methylnaphthalene	142	3.862	3.863	(1.109)	22169	0.20738	28	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	16664	0.15892	21(a)	
* 5 Acenaphthene-d10	164	4.438	4.443	(1.000)	3219681	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.982)	18103	0.10464	14(a)	
7 Acenaphthene	154	4.458	4.459	(1.005)	116710	1.28939	170	
8 Fluorene	166	4.749	4.754	(1.070)	111430	0.92218	120	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5268148	40.0000		
10 Phenanthrene	178	5.370	5.376	(1.003)	1537154	10.5004	1400	
11 Anthracene	178	5.407	5.412	(1.010)	370876	2.33905	310	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	77396	0.79188	100	
13 Fluoranthene	202	6.397	6.402	(1.195)	2728869	13.8887	1800	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	5585446	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2182309	10.4289	1400	
16 Benzo(a)anthracene	228	8.267	8.267	(0.997)	1170365	6.12246	810	
17 Chrysene	228	8.324	8.330	(1.004)	1110331	6.71571	890	
* 18 Perylene-d12	264	10.734	10.734	(1.000)	6605735	40.0000		
19 Benzo(b)fluoranthene	252	10.055	10.061	(0.937)	1624344	7.71904	1000	
20 Benzo(k)fluoranthene	252	10.097	10.107	(0.941)	680945	3.33164	440	
21 Benzo(a)pyrene	252	10.605	10.610	(0.988)	1143446	6.12561	820	
22 Indeno(1,2,3-cd)pyrene	276	12.455	12.460	(1.160)	844034	4.23079	560	
23 Dibenzo(a,h)anthracene	278	12.486	12.501	(1.163)	194599	1.00535	130	
24 Benzo(g,h,i)perylene	276	12.864	12.869	(1.198)	721880	3.68199	490	

QC Flag Legend

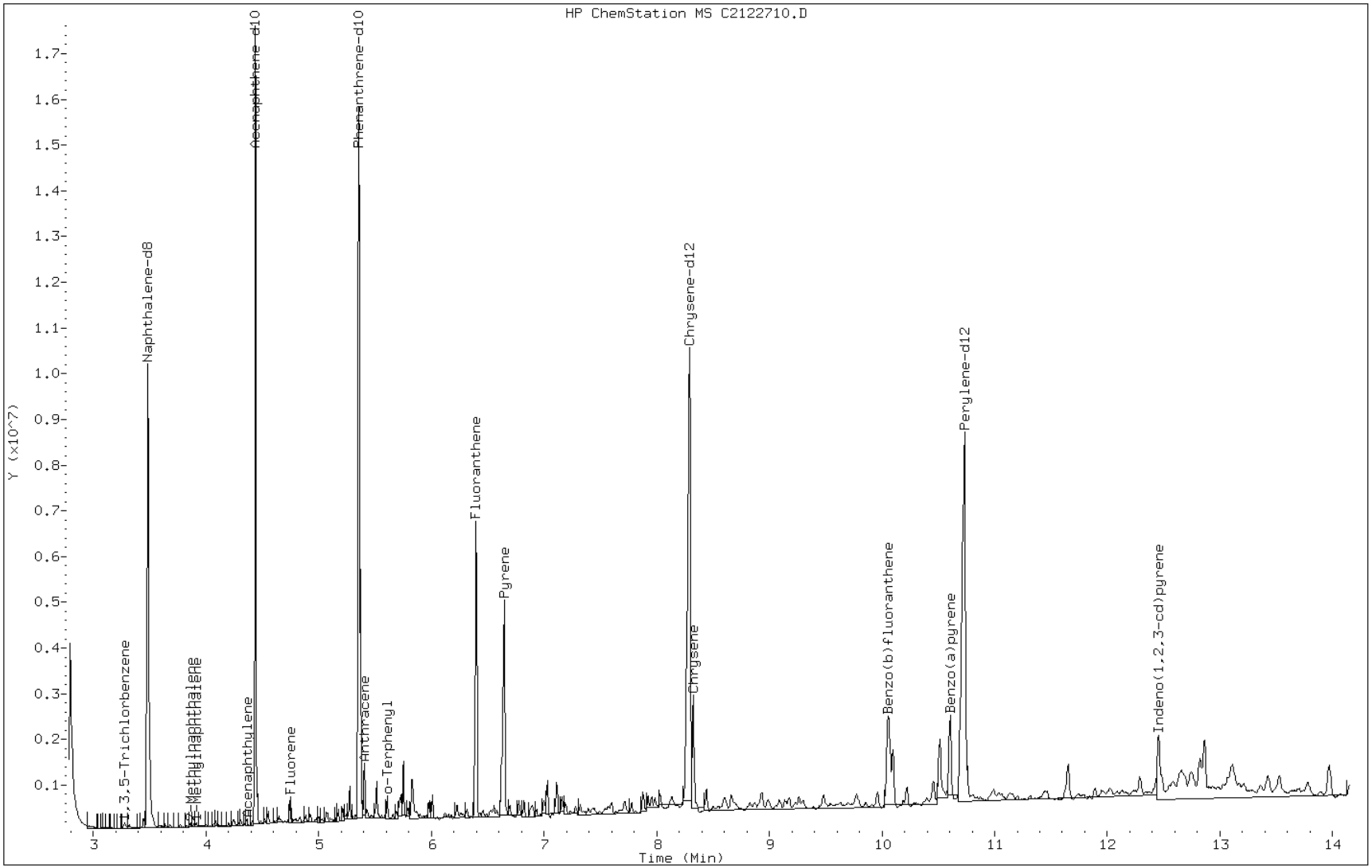
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW



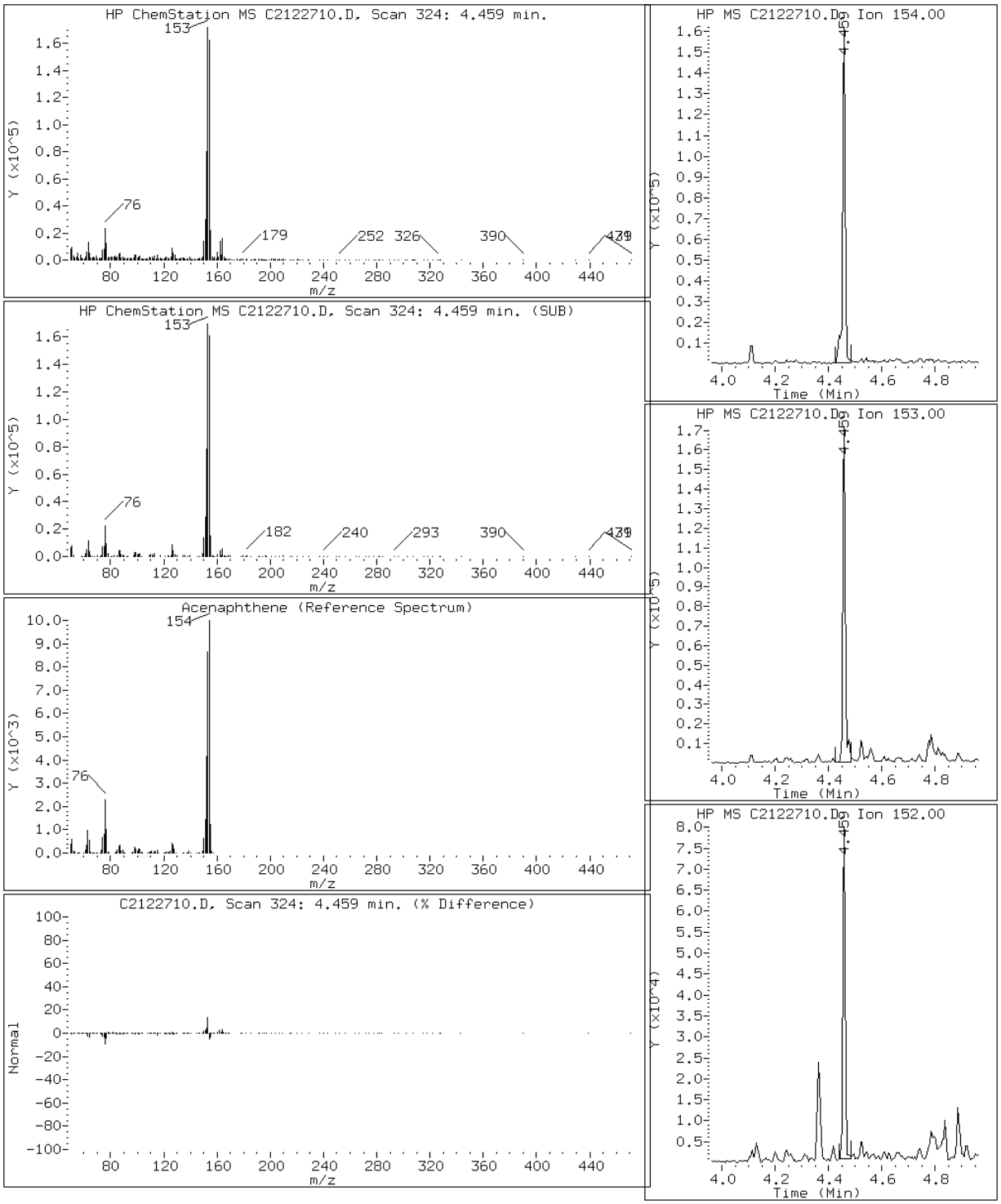
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

7 Acenaphthene



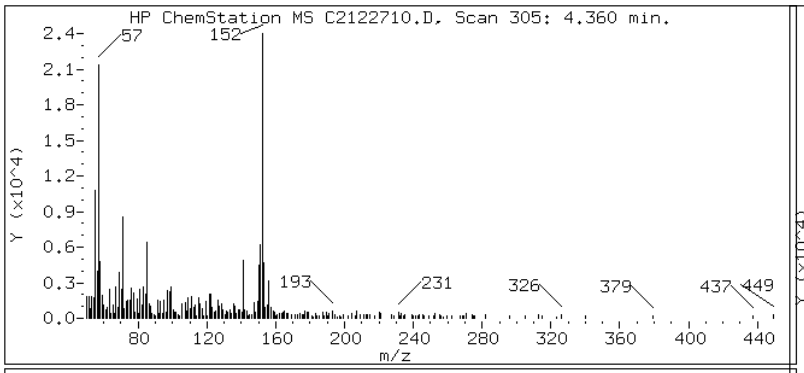
Data File: C2122710.D

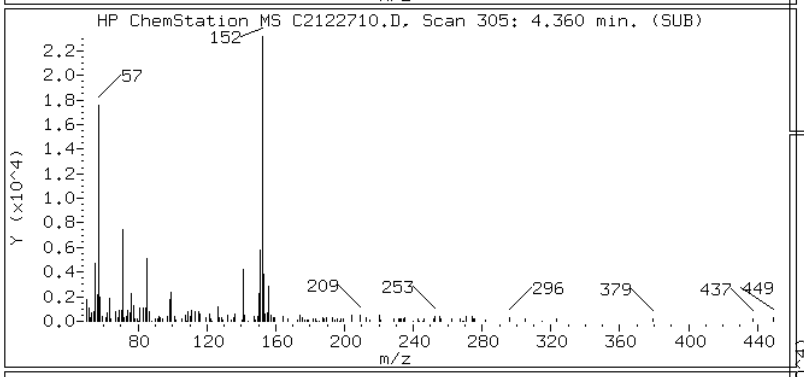
Date: 27-DEC-2012 10:00

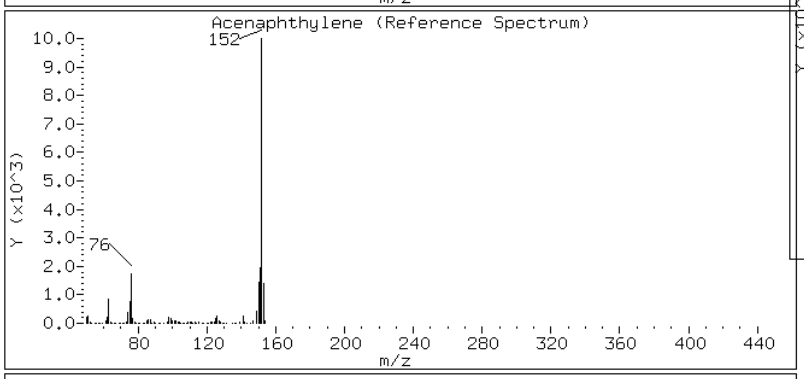
Client ID: CV0511B-CSD Instrument: TSMC5973.i

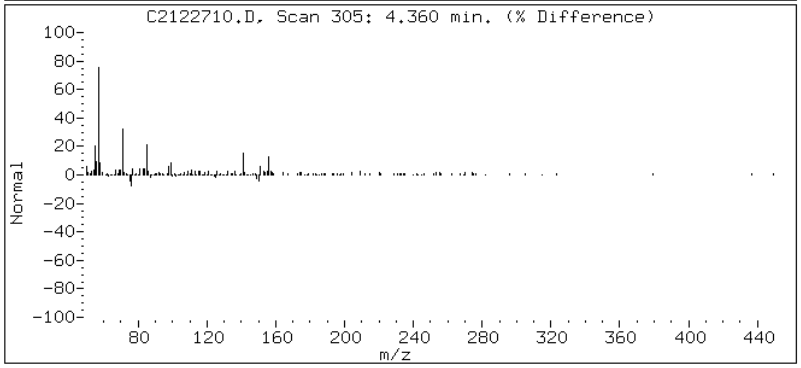
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

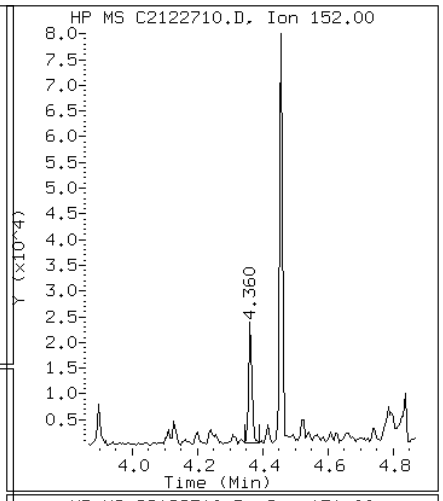
6 Acenaphthylene

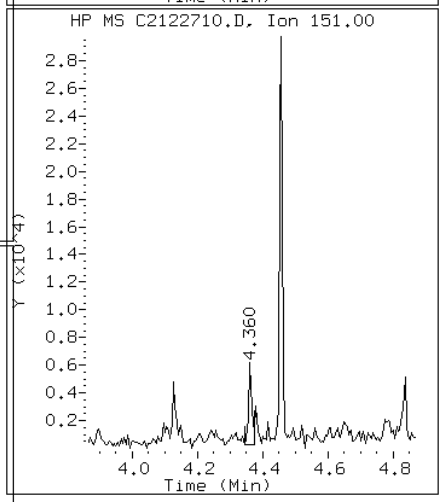












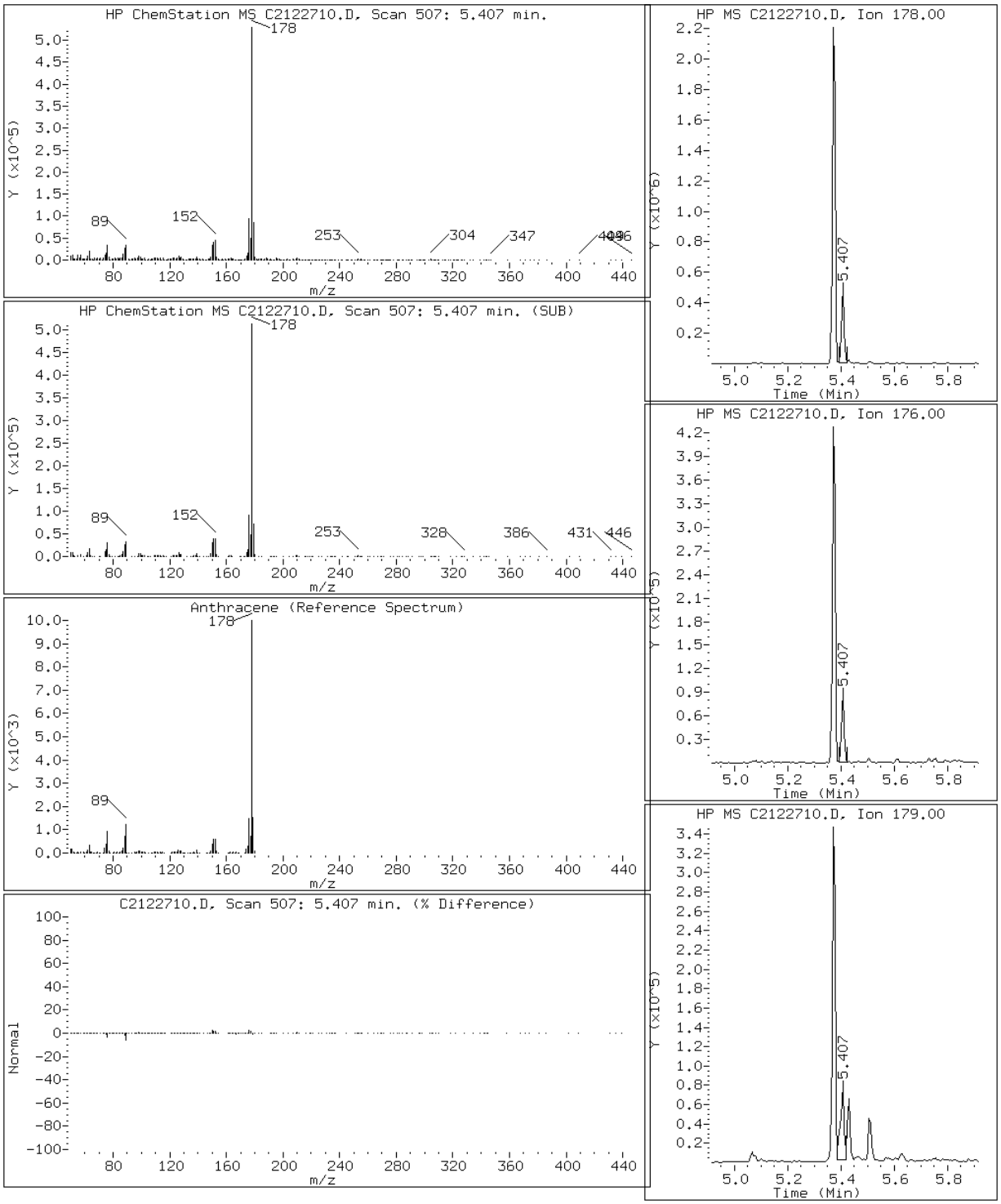
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

11 Anthracene



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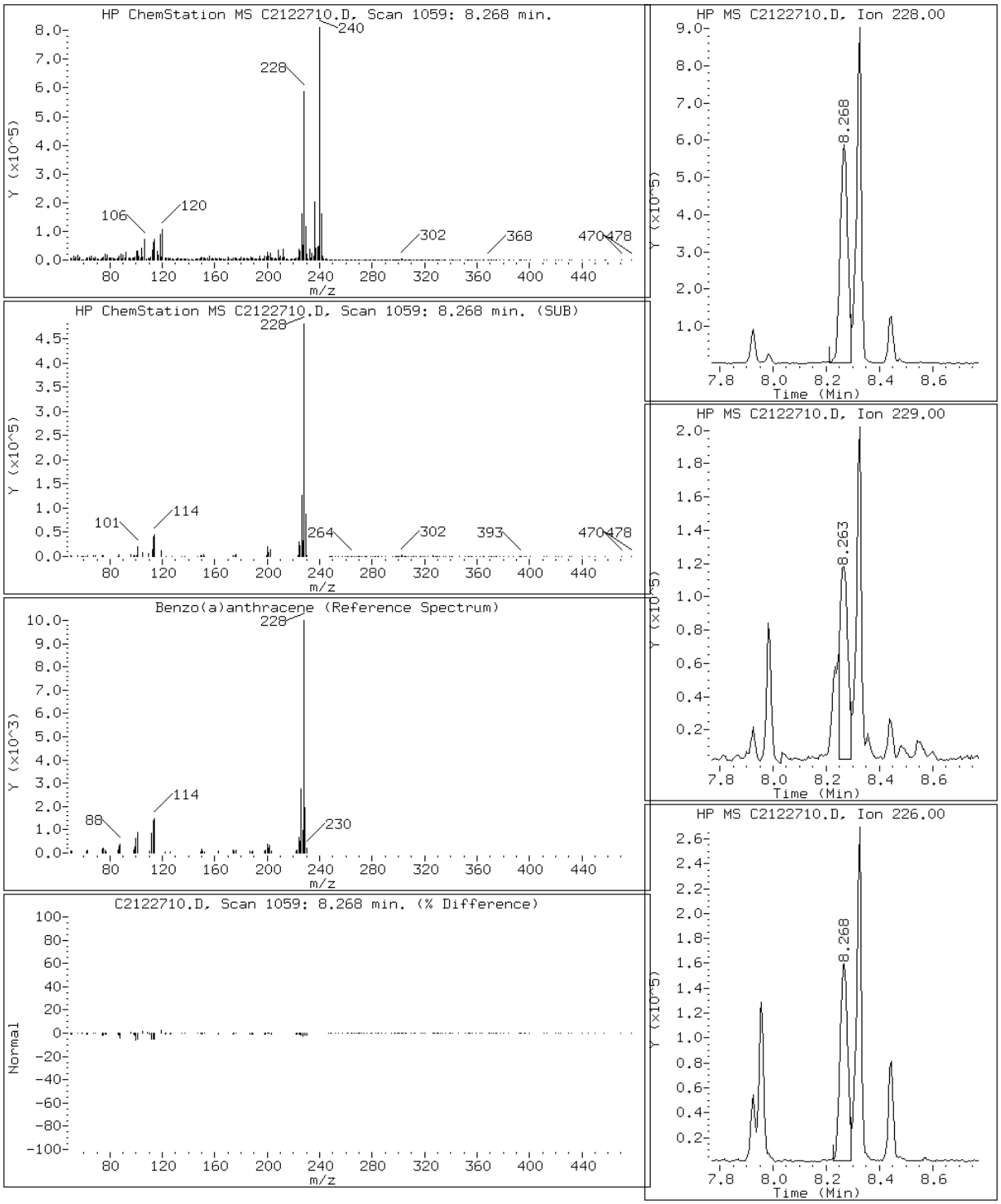
Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

16 Benzo(a)anthracene



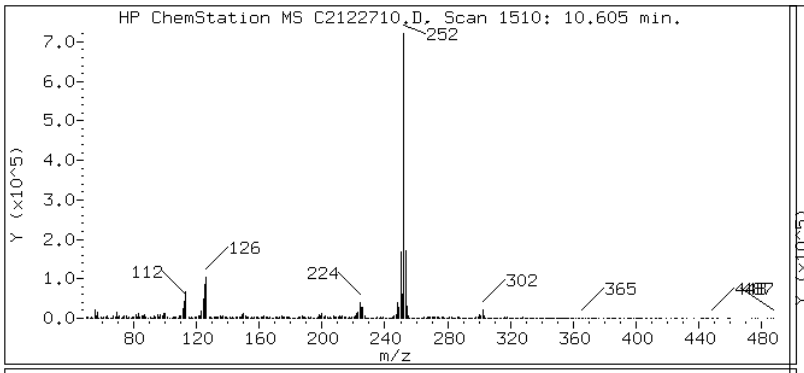
Data File: C2122710.D

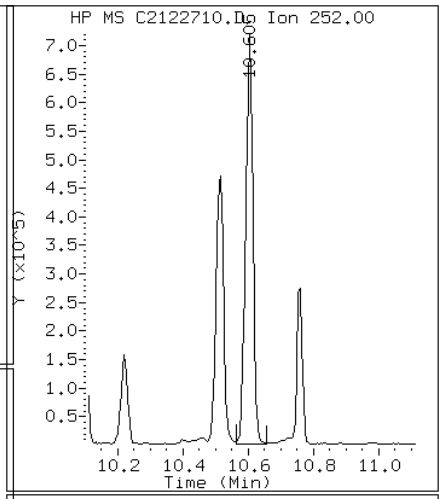
Date: 27-DEC-2012 10:00

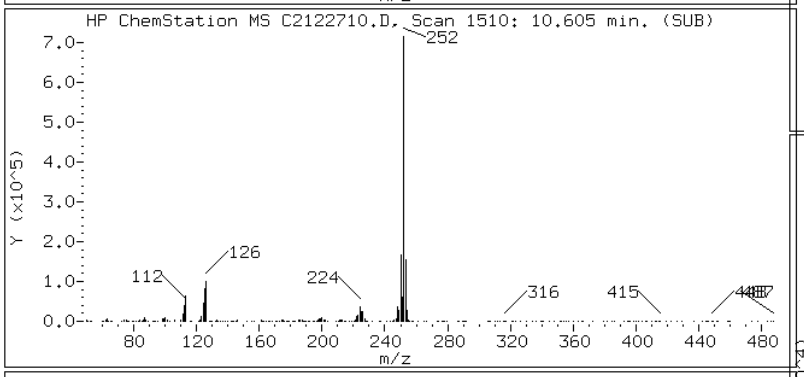
Client ID: CV0511B-CSD Instrument: TSMC5973.i

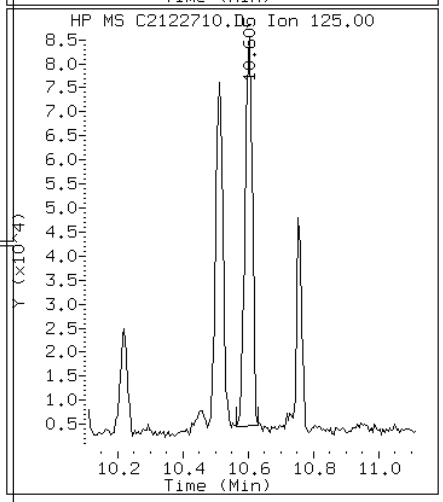
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

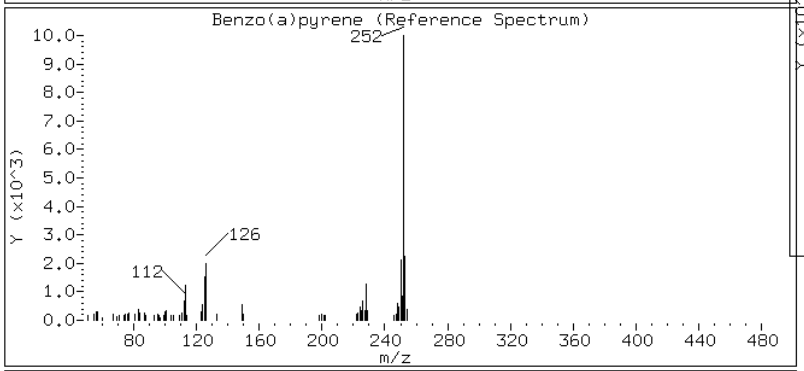
21 Benzo(a)pyrene

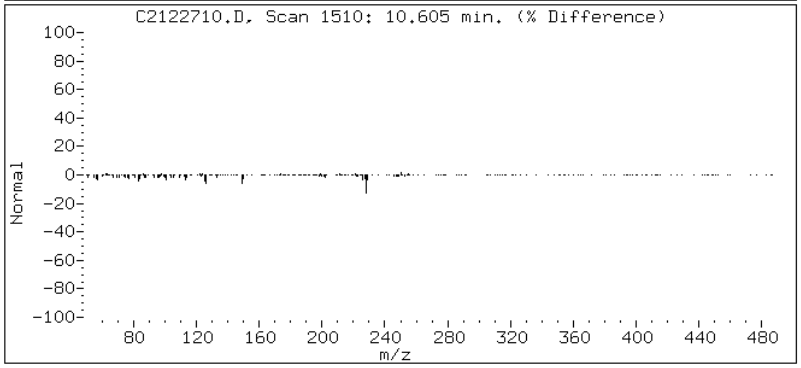












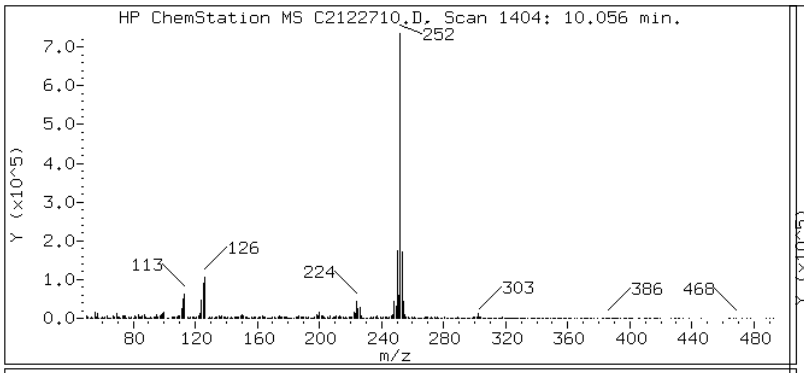
Data File: C2122710.D

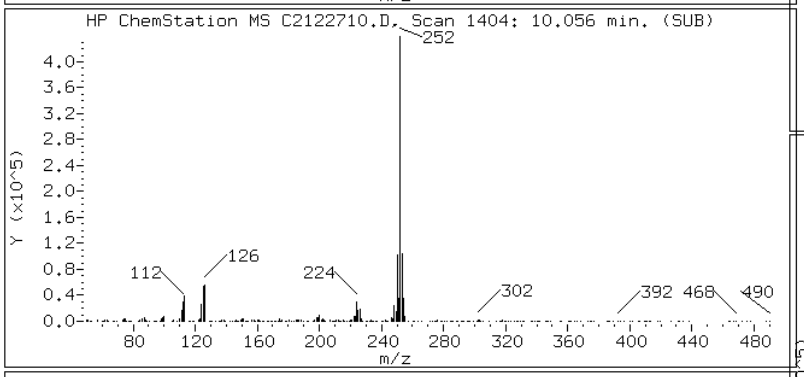
Date: 27-DEC-2012 10:00

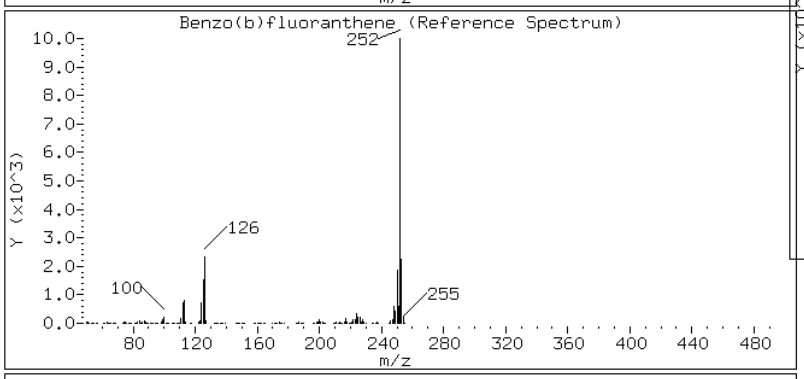
Client ID: CV0511B-CSD Instrument: TSMC5973.i

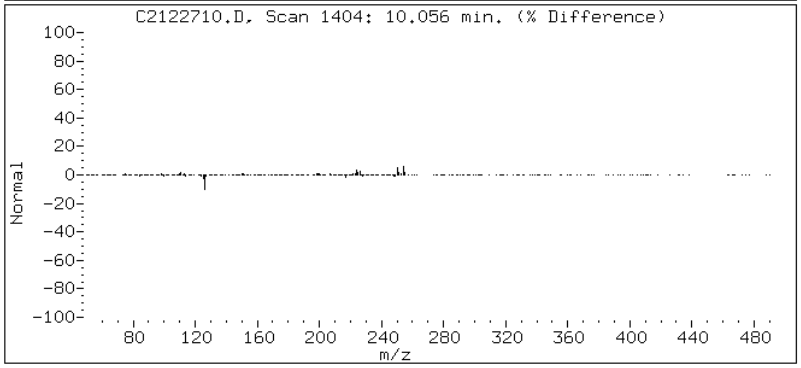
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

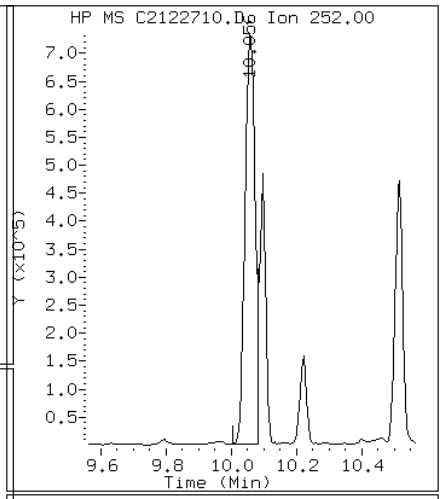
19 Benzo(b)fluoranthene

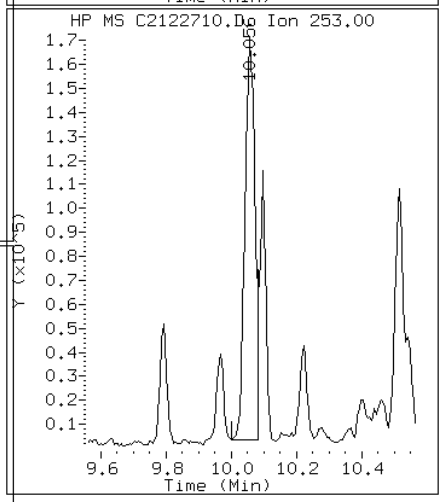












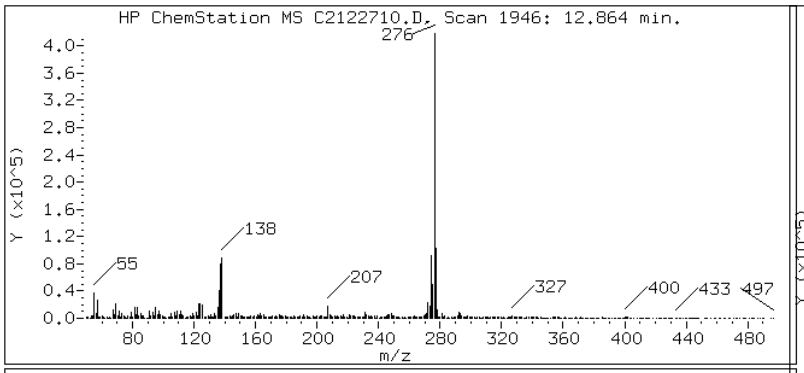
Data File: C2122710.D

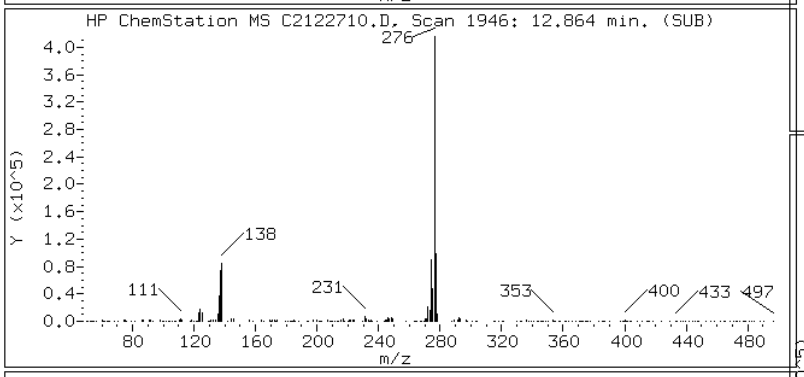
Date: 27-DEC-2012 10:00

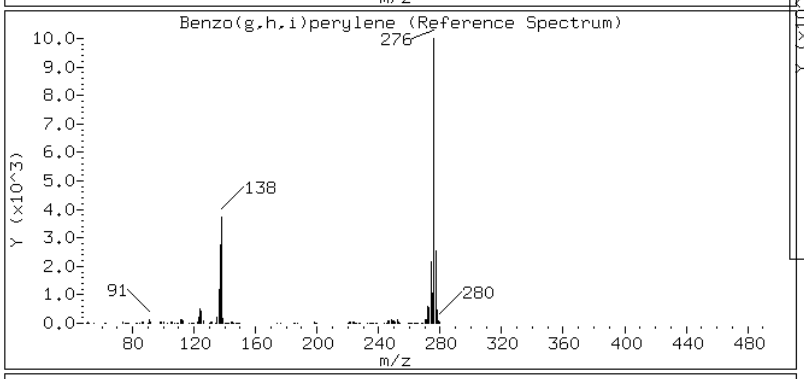
Client ID: CV0511B-CSD Instrument: TSMC5973.i

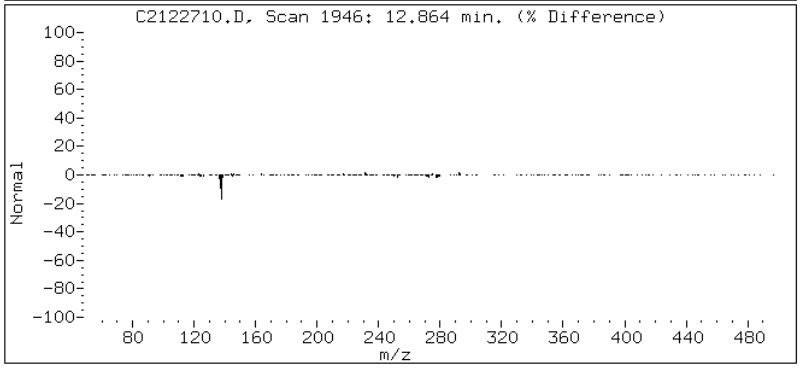
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

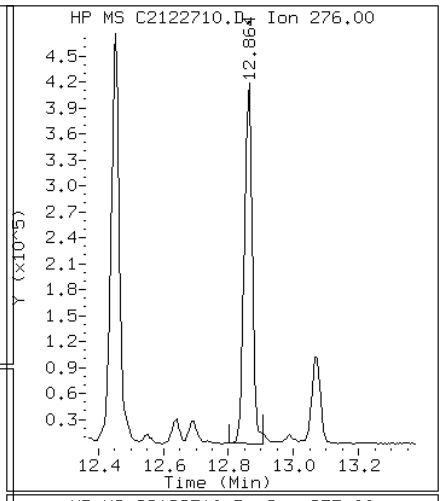
24 Benzo(g,h,i)perylene

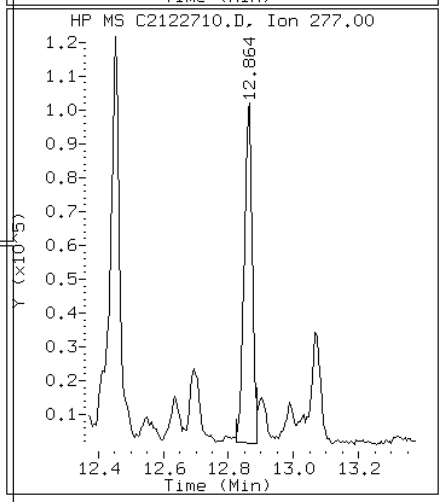












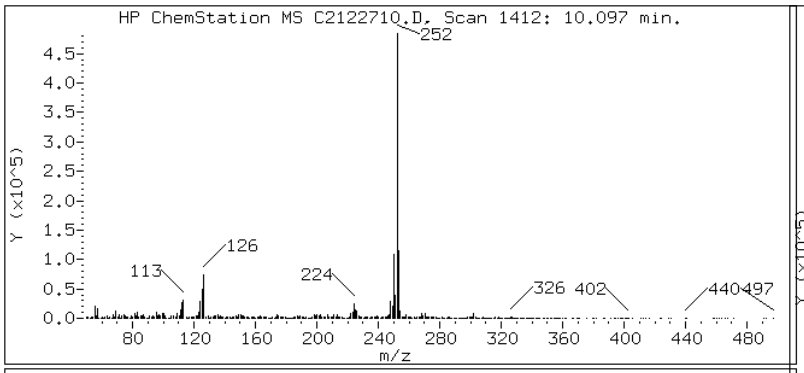
Data File: C2122710.D

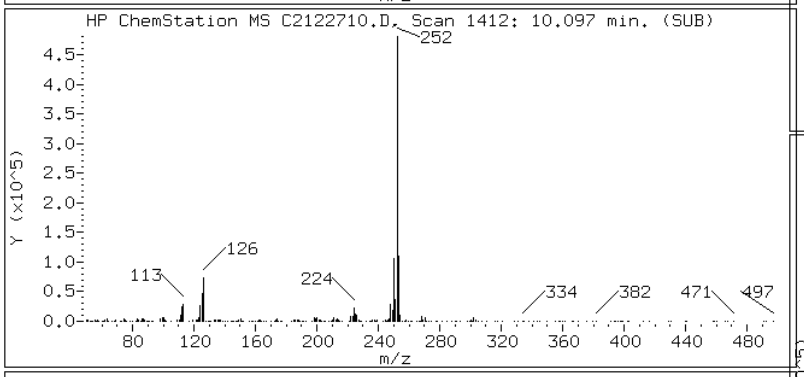
Date: 27-DEC-2012 10:00

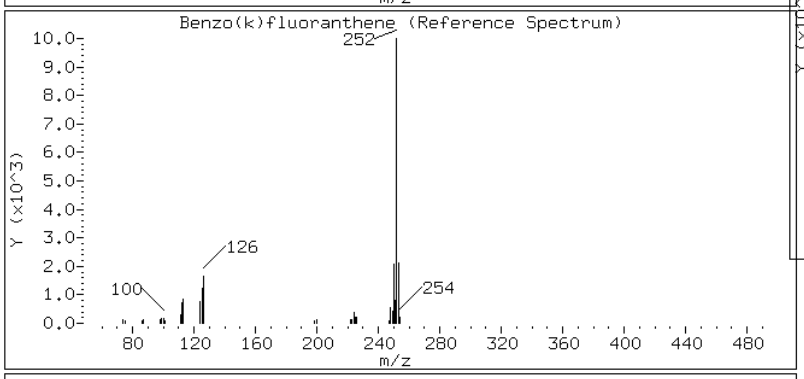
Client ID: CV0511B-CSD Instrument: TSMC5973.i

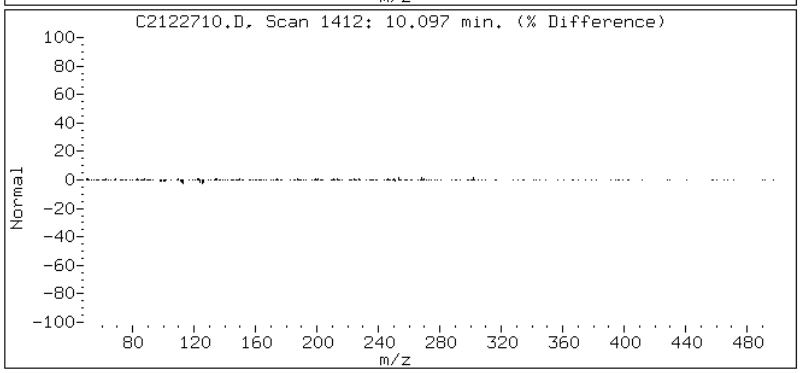
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

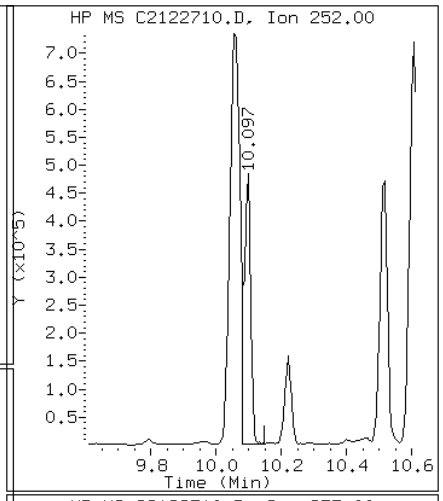
20 Benzo(k)fluoranthene

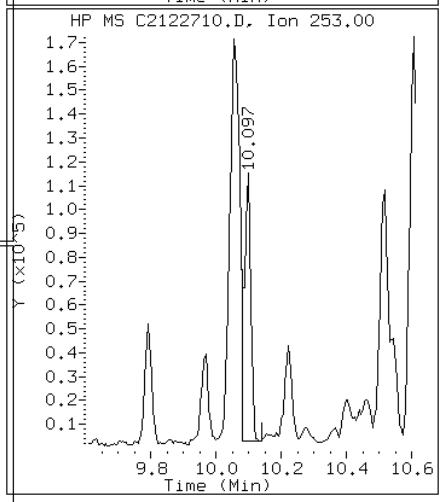












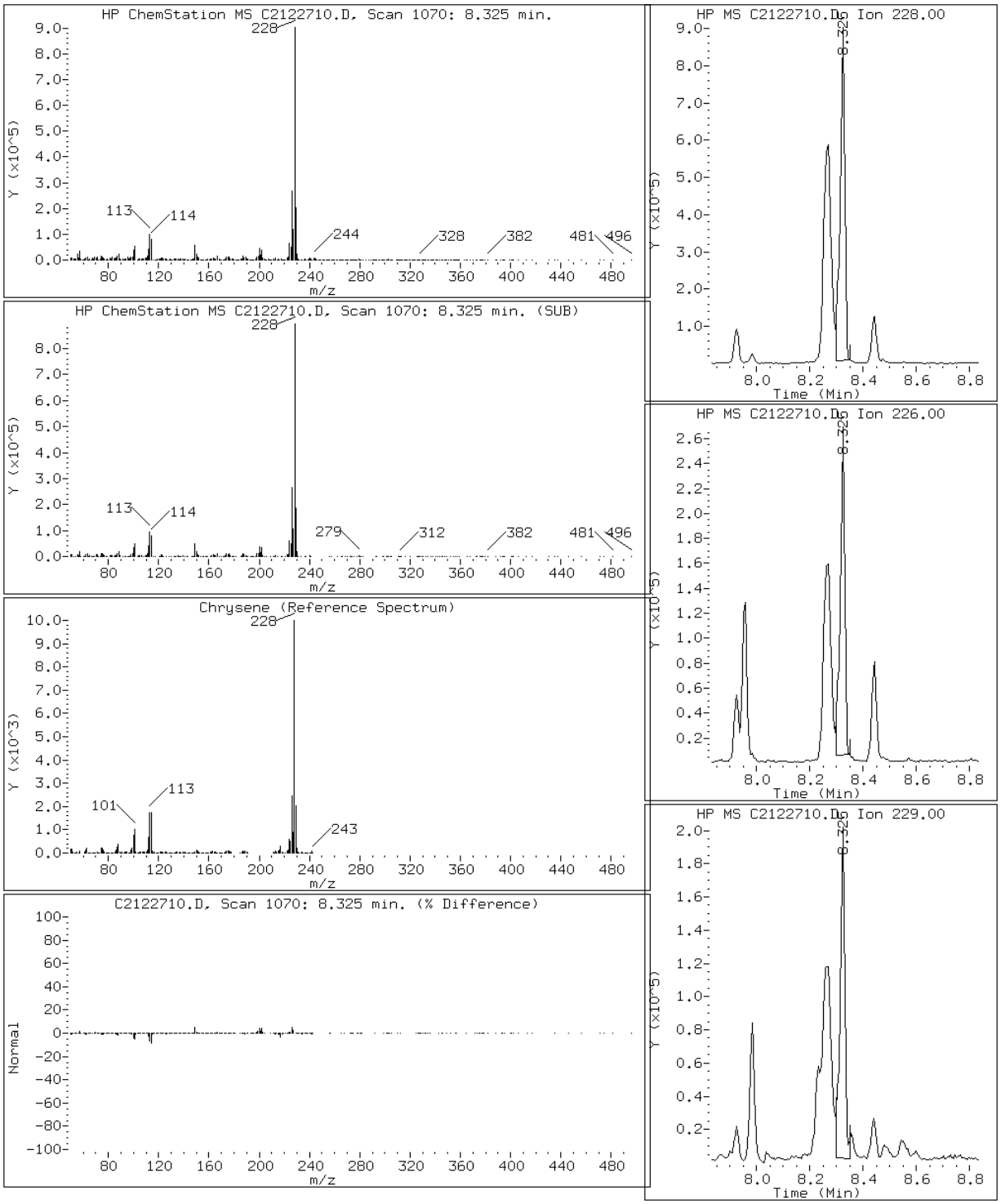
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

17 Chrysene



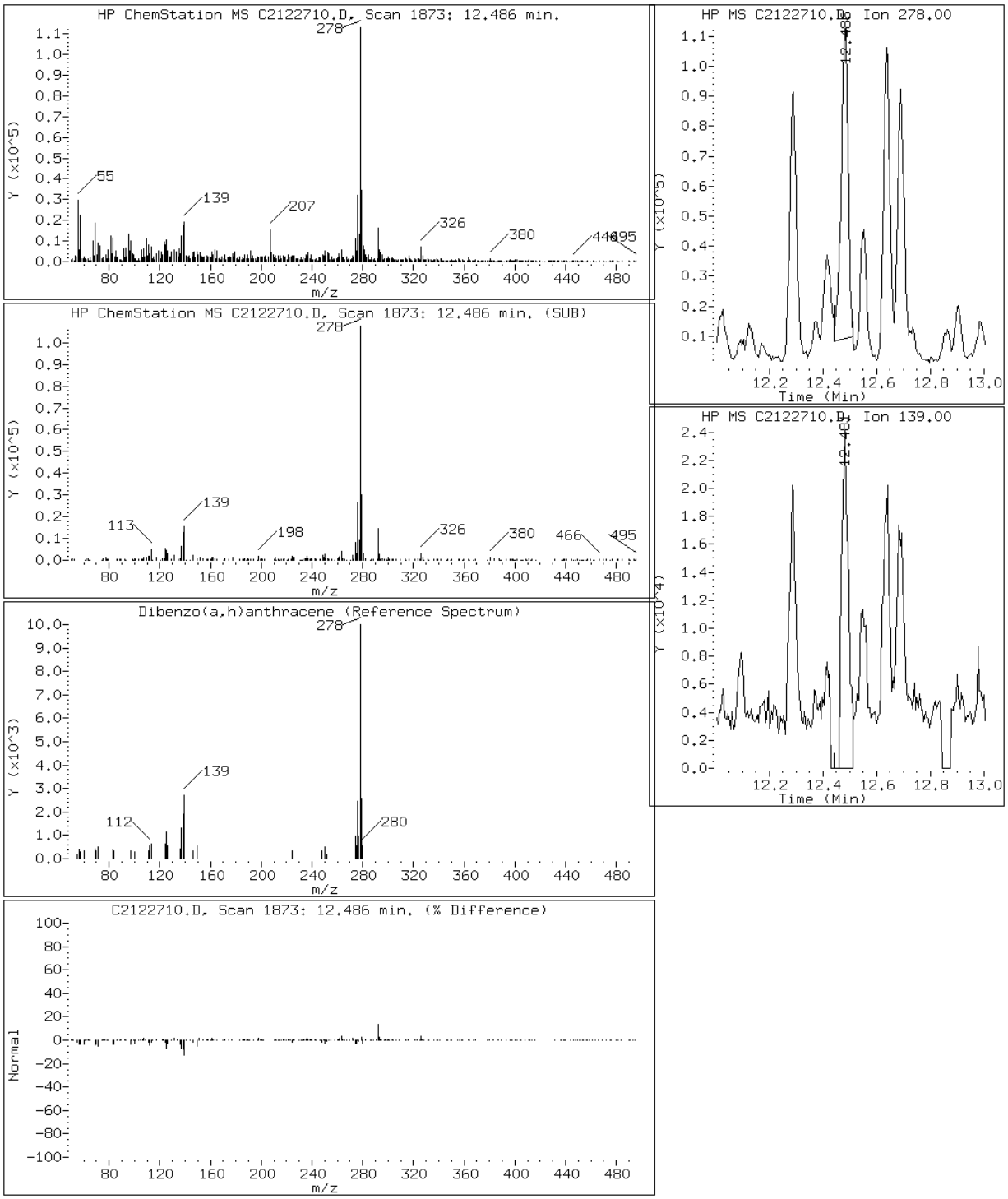
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

23 Dibenzo(a,h)anthracene



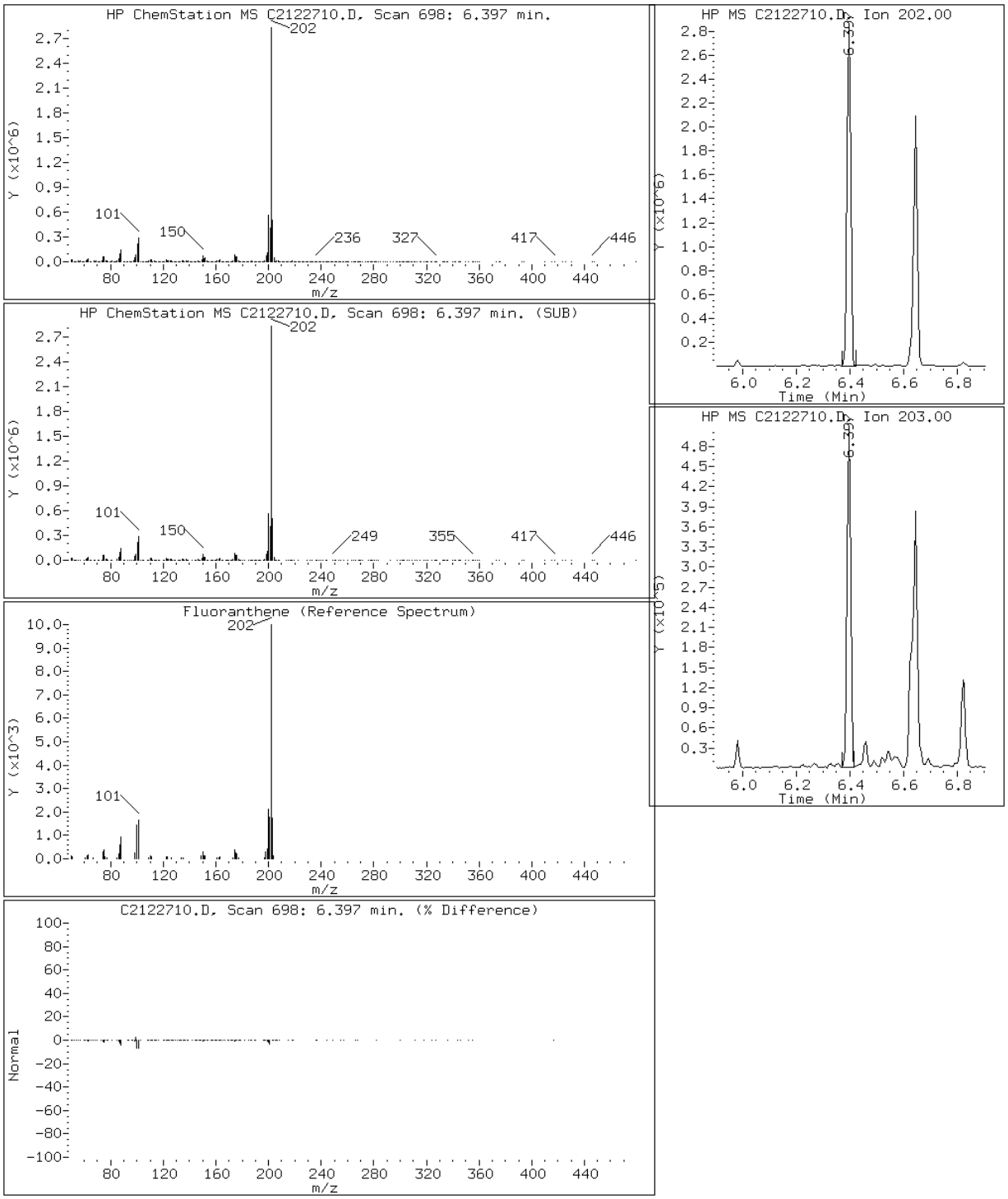
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

13 Fluoranthene



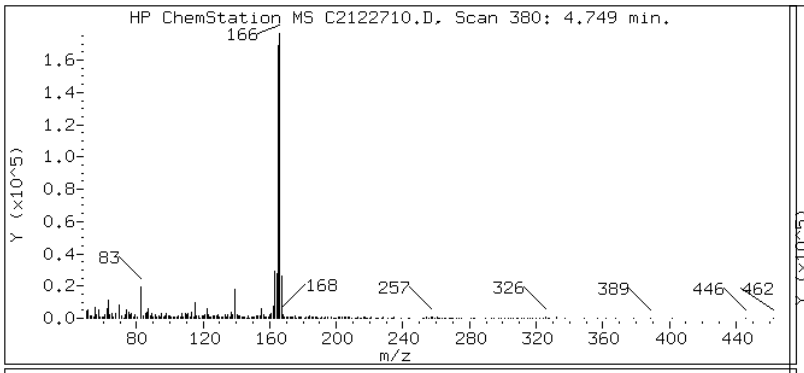
Data File: C2122710.D

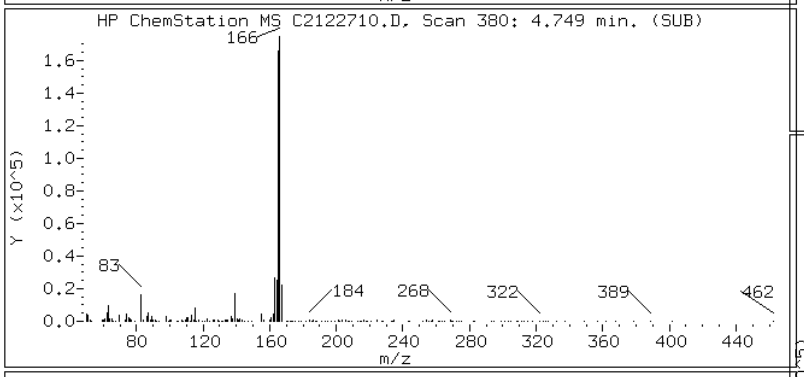
Date: 27-DEC-2012 10:00

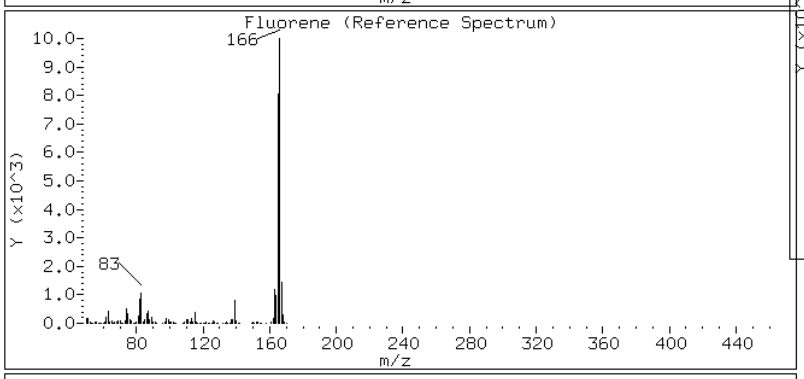
Client ID: CV0511B-CSD Instrument: TSMC5973.i

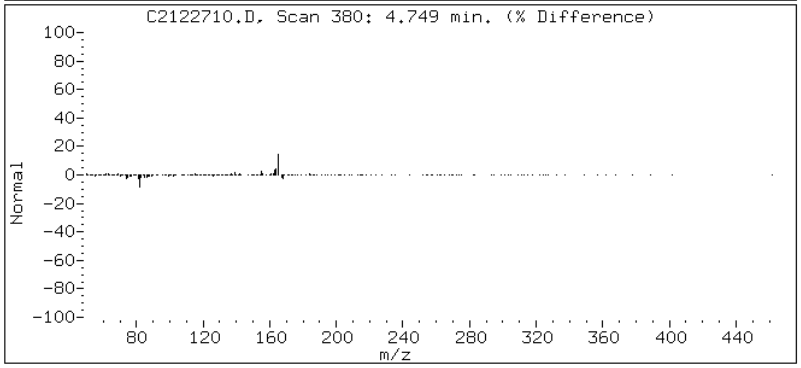
Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

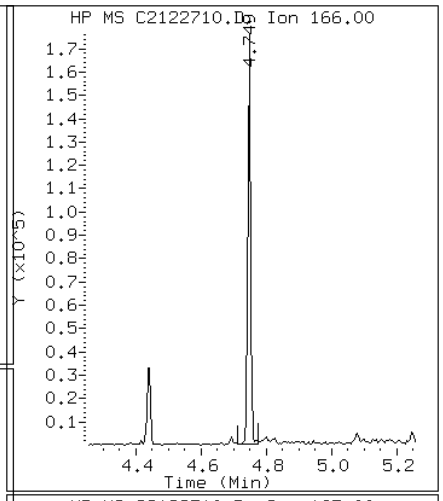
8 Fluorene

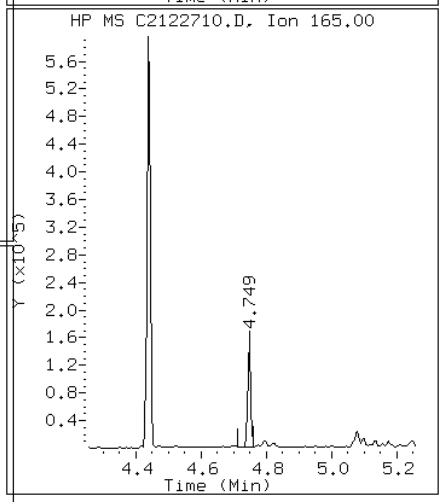












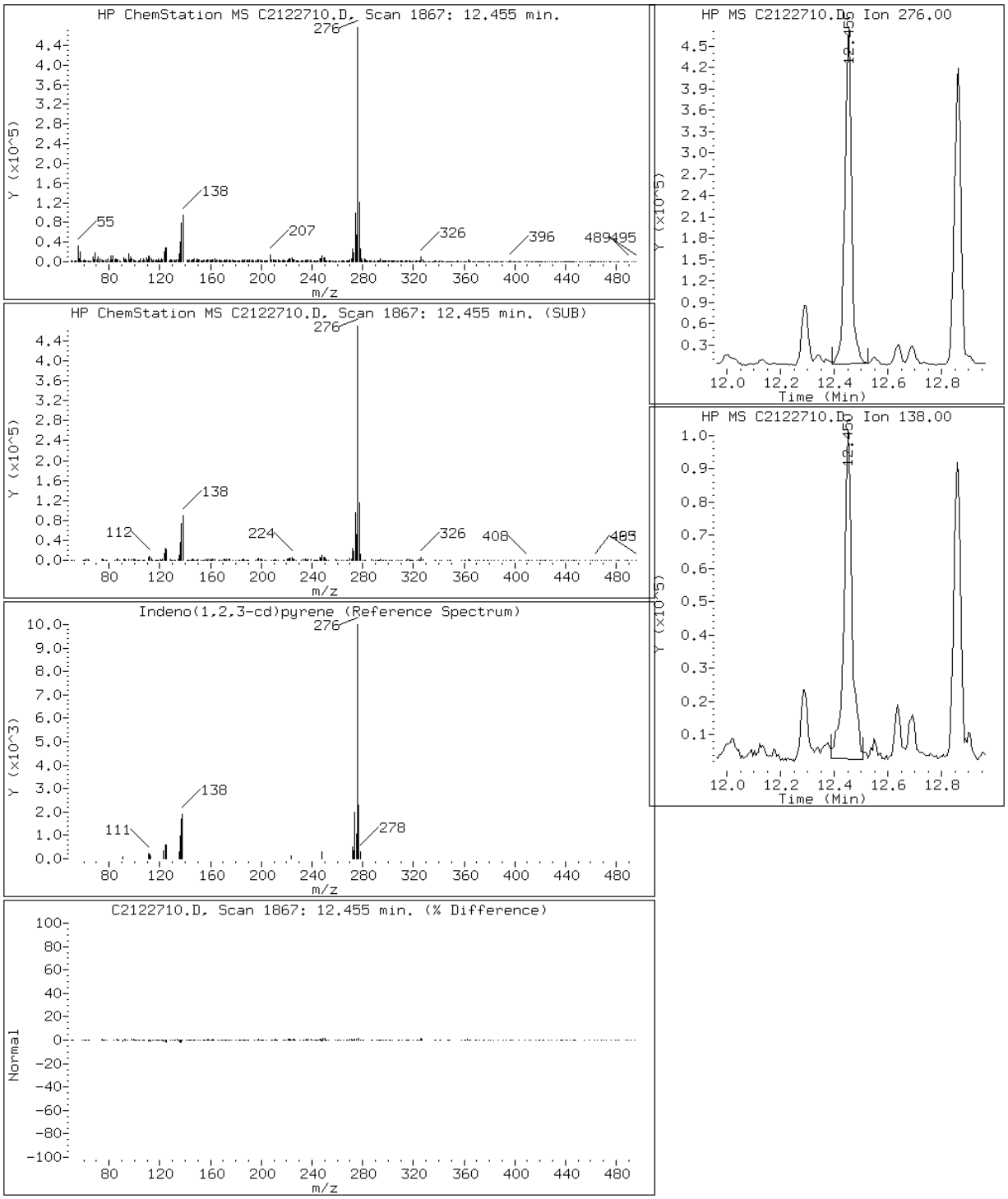
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

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



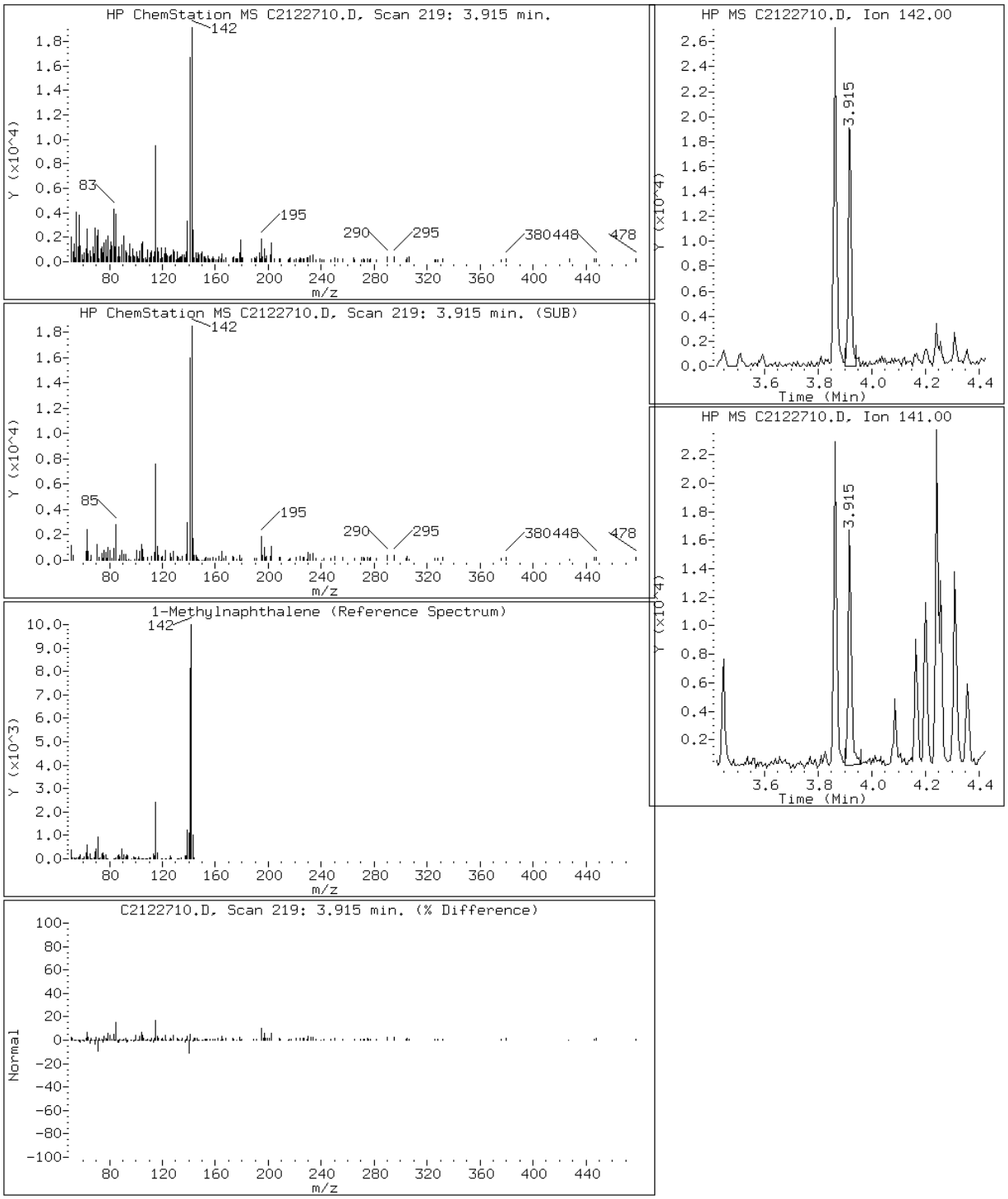
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

4 1-Methylnaphthalene



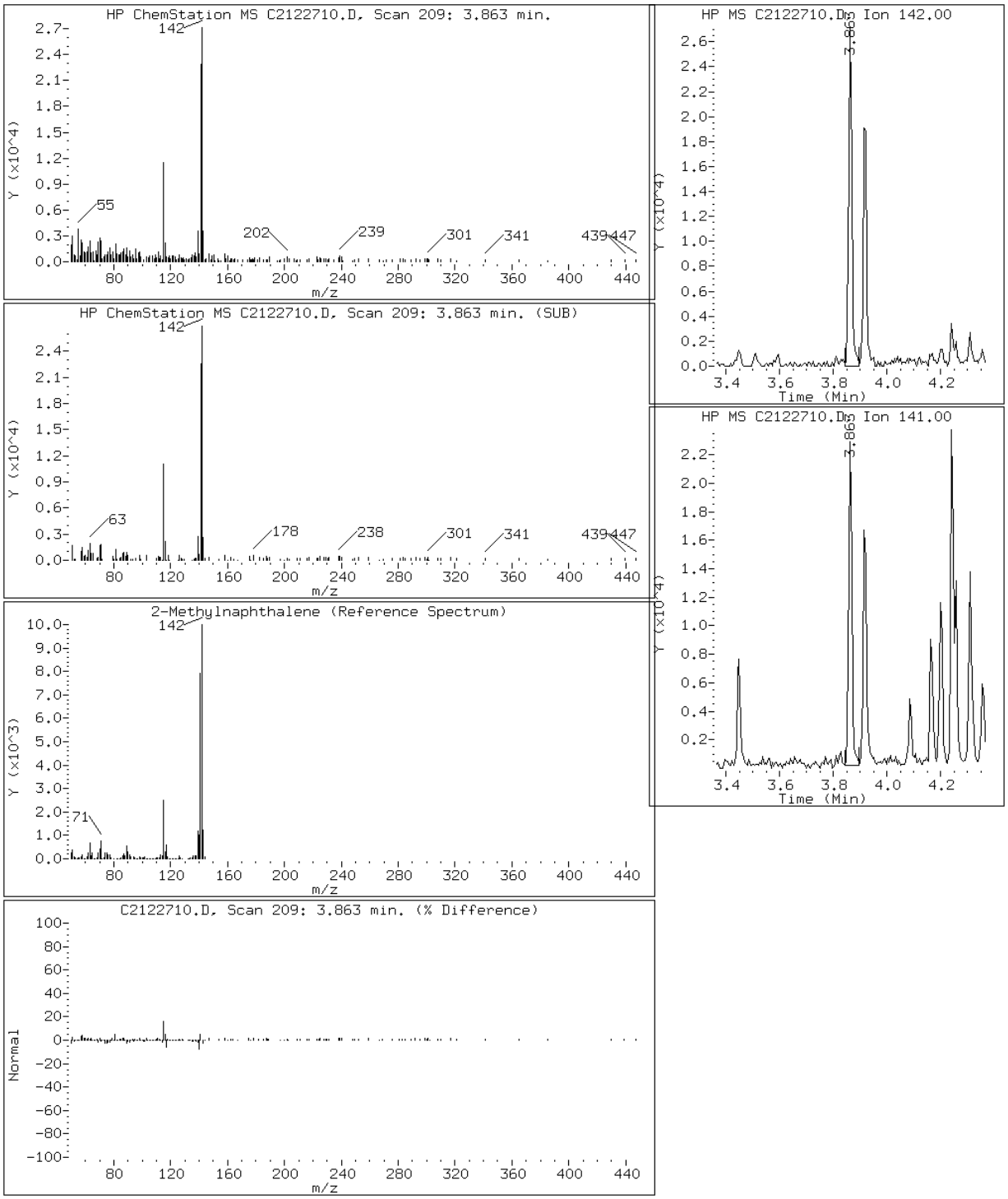
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

3 2-Methylnaphthalene



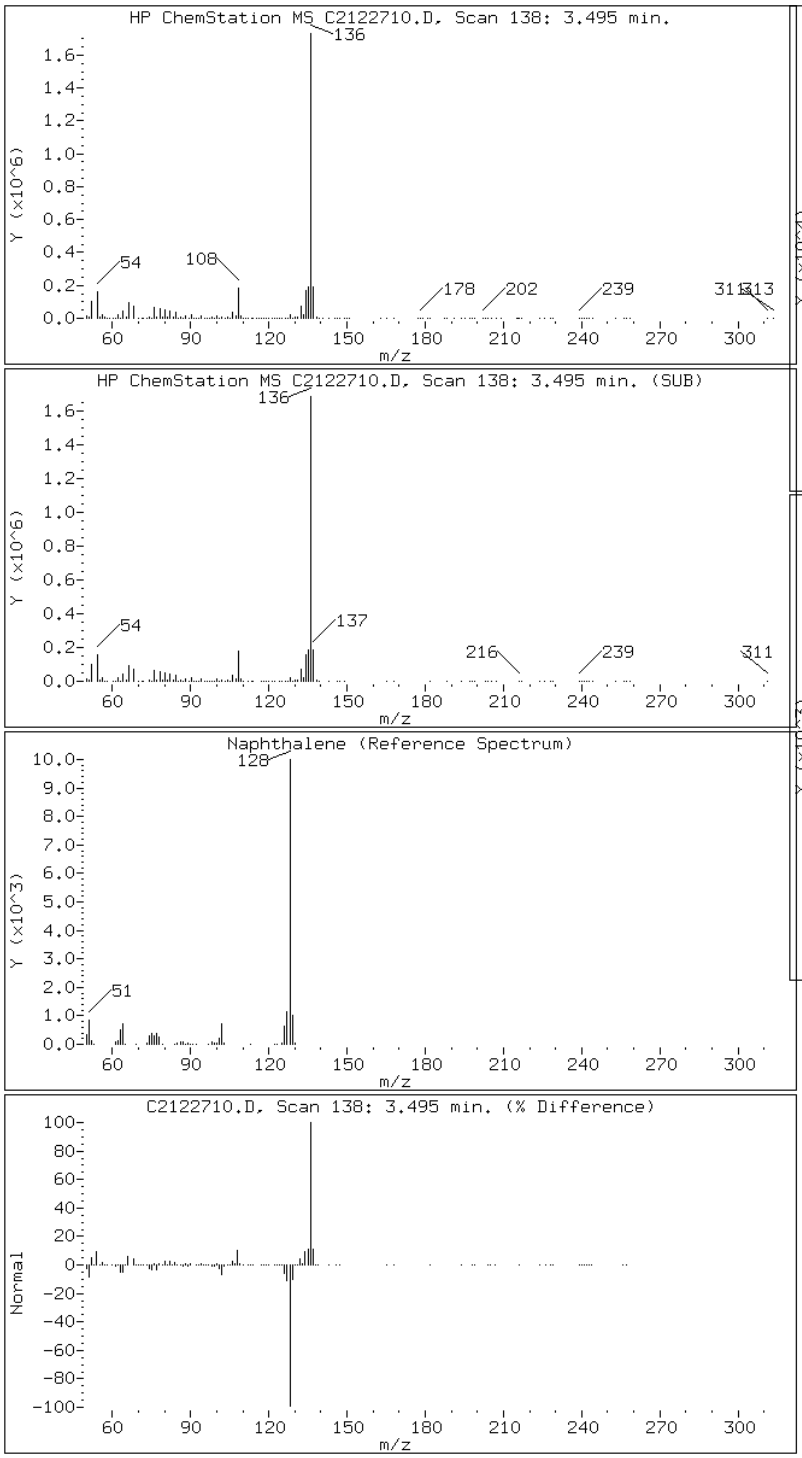
Data File: C2122710.D

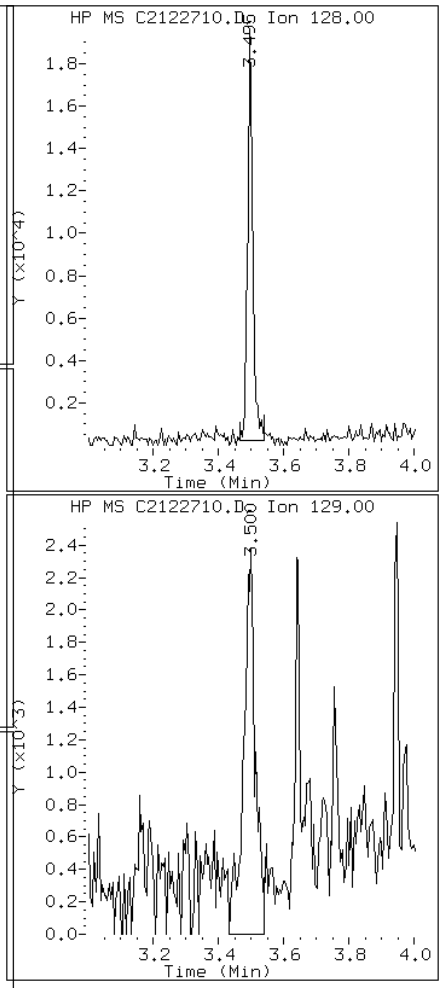
Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

2 Naphthalene





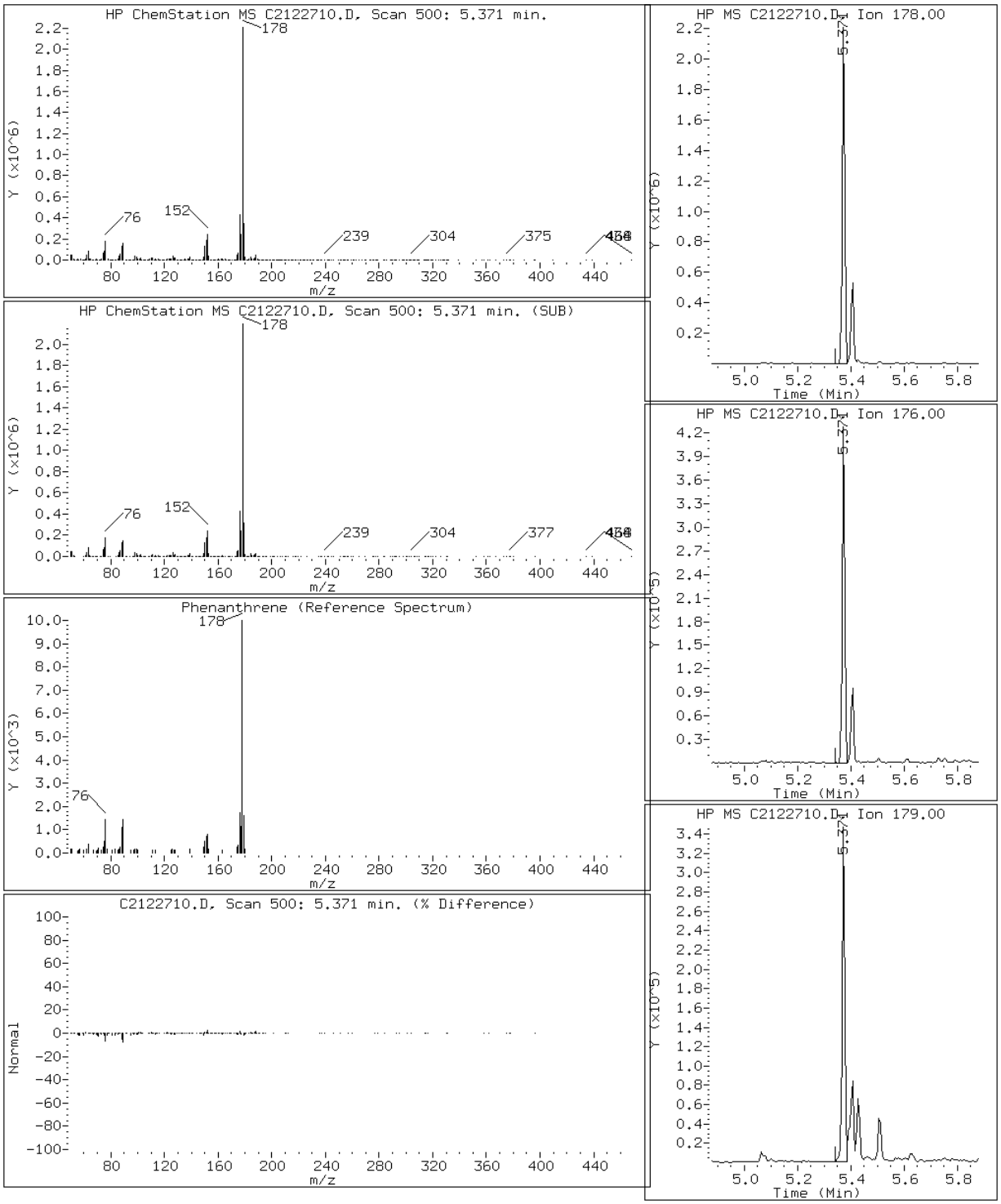
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

10 Phenanthrene



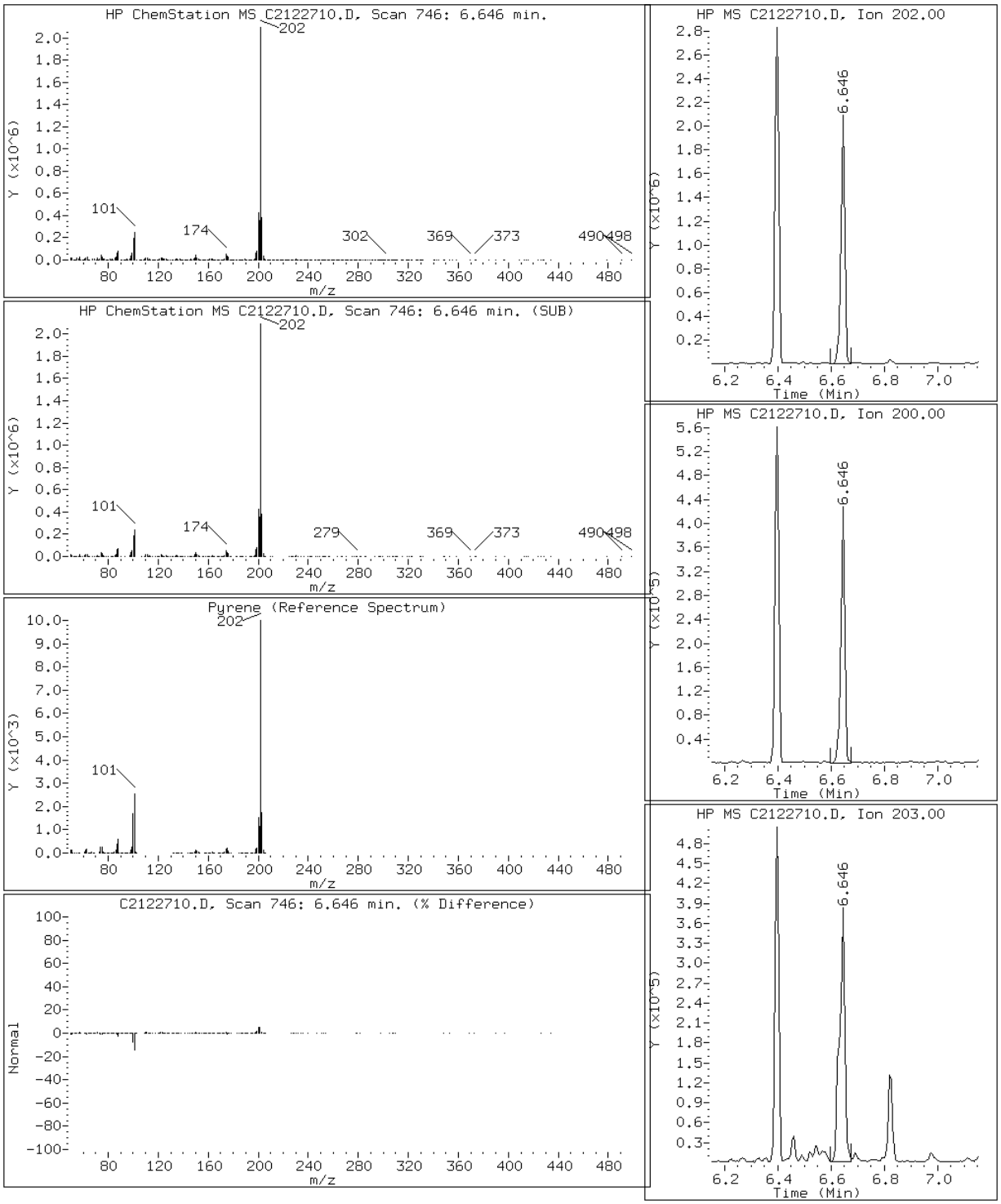
Data File: C2122710.D

Date: 27-DEC-2012 10:00

Client ID: CV0511B-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-33-A~98122~4~8270DLL Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511C-CS | Lab Sample ID: 680-85785-34

Matrix: Solid | Lab File ID: C2122631.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:10

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.41(g) | Date Analyzed: 12/26/2012 22:35

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 28.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	11		9.2	0.79
208-96-8	Acenaphthylene	19		9.2	0.73
120-12-7	Anthracene	45		9.2	0.90
56-55-3	Benzo[a]anthracene	170		9.2	0.85
50-32-8	Benzo[a]pyrene	220		9.2	0.93
205-99-2	Benzo[b]fluoranthene	390		9.2	1.3
191-24-2	Benzo[g,h,i]perylene	72		9.2	1.5
207-08-9	Benzo[k]fluoranthene	130		9.2	0.88
218-01-9	Chrysene	230		9.2	1.0
53-70-3	Dibenz(a,h)anthracene	28		9.2	0.89
206-44-0	Fluoranthene	340		9.2	0.82
86-73-7	Fluorene	12		9.2	0.71
193-39-5	Indeno[1,2,3-cd]pyrene	91		9.2	1.5
90-12-0	1-Methylnaphthalene	16		9.2	0.73
91-57-6	2-Methylnaphthalene	21		9.2	0.71
91-20-3	Naphthalene	18		9.2	0.71
85-01-8	Phenanthrene	170		9.2	0.60
129-00-0	Pyrene	260		9.2	0.71

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	86		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122631.D
Lab Smp Id: 680-85785-A-34-A Client Smp ID: CV0511C-CS
Inj Date : 26-DEC-2012 22:35
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-34-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.410	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.293	3.303	(0.941)	169396	2.40568	79	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	6544019	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	62442	0.39045	13	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	56784	0.46787	15	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	42605	0.35788	12	
* 5 Acenaphthene-d10	164	4.459	4.464	(1.000)	3632072	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	79858	0.40917	13	
7 Acenaphthene	154	4.474	4.479	(1.003)	24263	0.23762	7.8(M)	SP
8 Fluorene	166	4.764	4.774	(1.069)	35433	0.25994	8.5	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	5879436	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	607977	3.70036	120	
11 Anthracene	178	5.428	5.438	(1.009)	176401	0.98962	32	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	369007	3.44192	110	
13 Fluoranthene	202	6.428	6.433	(1.195)	1646357	7.50804	250	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.335	8.340	(1.000)	6865209	40.0000		
15 Pyrene	202	6.677	6.682	(0.801)	1483006	5.76594	190	
16 Benzo(a)anthracene	228	8.309	8.309	(0.997)	901054	3.81843	120	
17 Chrysene	228	8.366	8.371	(1.004)	1040206	5.11493	170	
* 18 Perylene-d12	264	10.776	10.781	(1.000)	5036918	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.937)	1375742	8.57390	280	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.941)	450442	2.88858	95	
21 Benzo(a)pyrene	252	10.656	10.656	(0.989)	684558	4.80456	160	
22 Indeno(1,2,3-cd)pyrene	276	12.507	12.512	(1.161)	303951	1.99812	66	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.164)	92654	0.62129	20(M)	BAS
24 Benzo(g,h,i)perylene	276	12.916	12.921	(1.199)	238797	1.58576	52	

QC Flag Legend

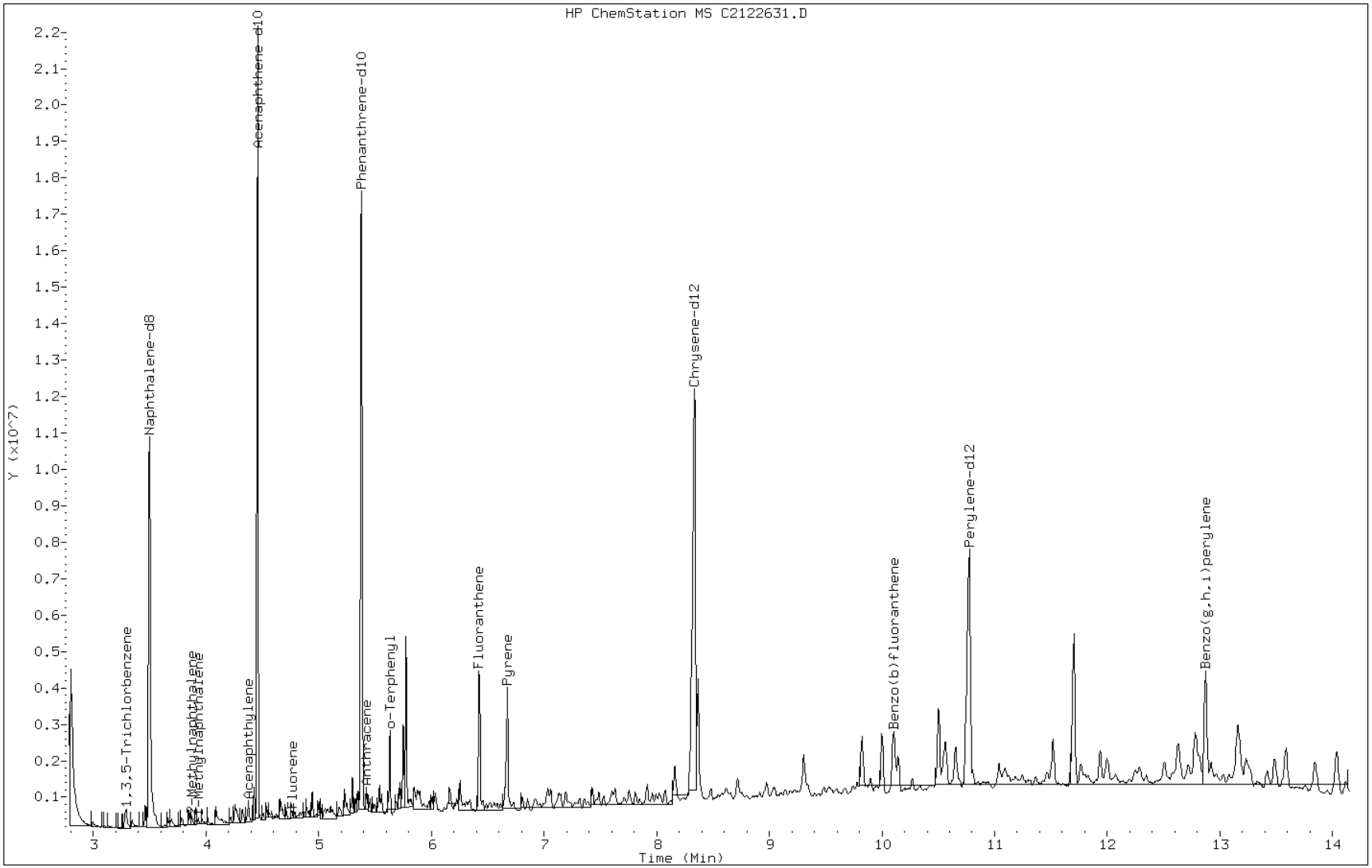
M - Compound response manually integrated.

Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW



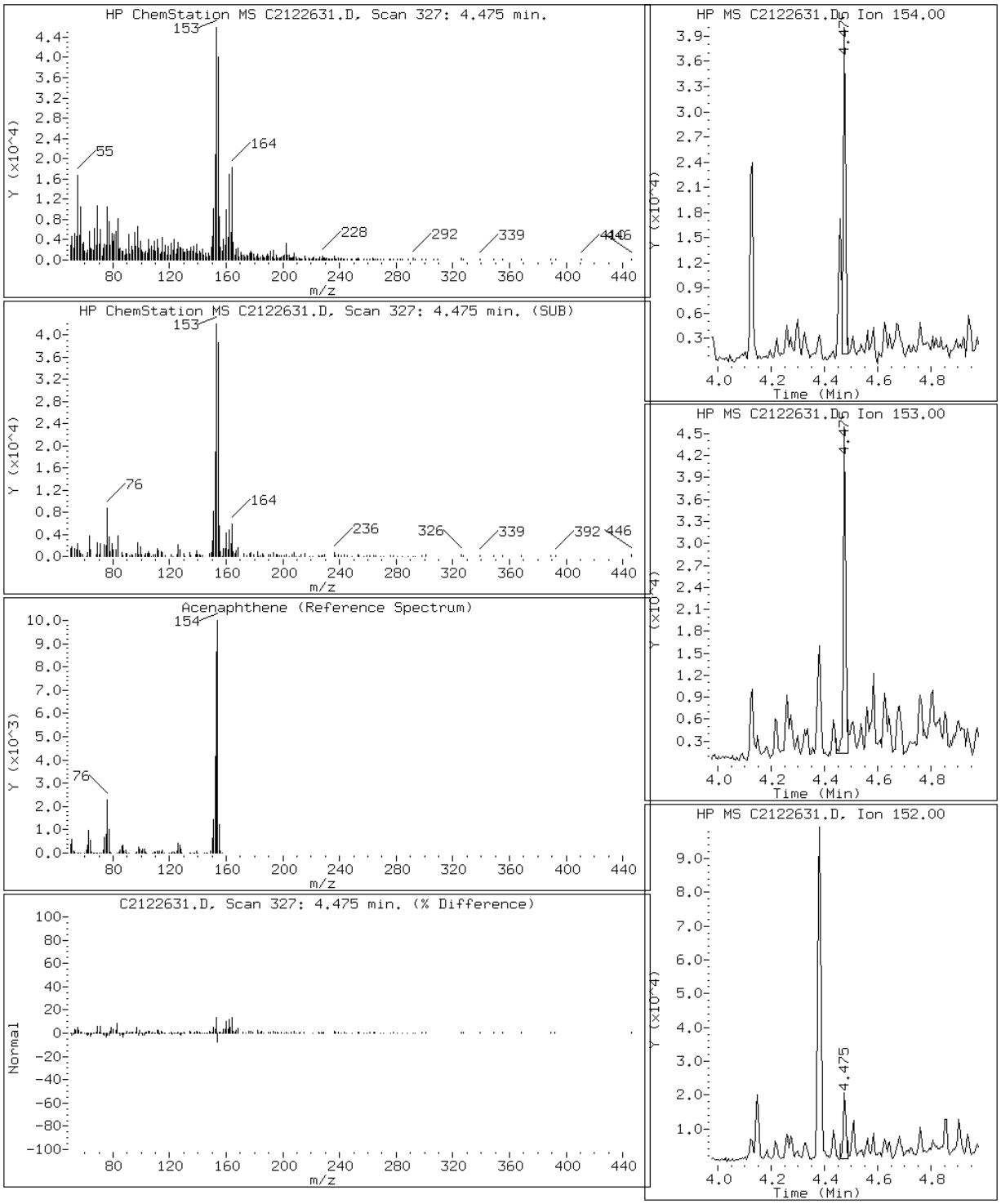
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



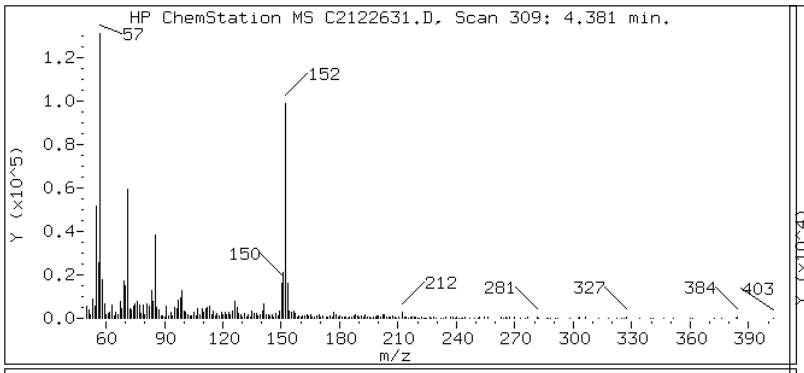
Data File: C2122631.D

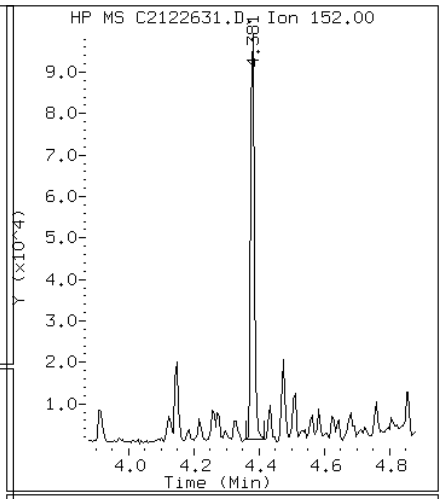
Date: 26-DEC-2012 22:35

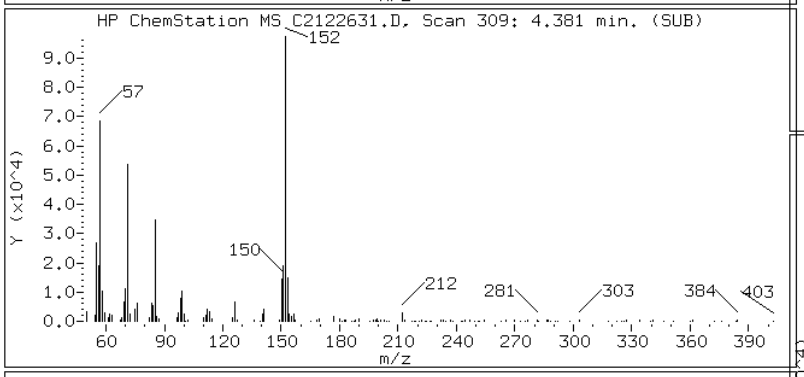
Client ID: CV0511C-CS Instrument: TSMC5973.i

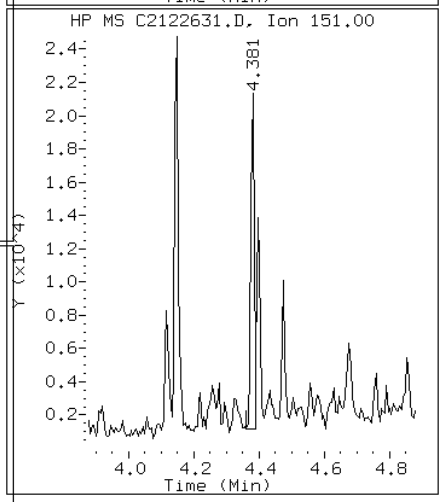
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

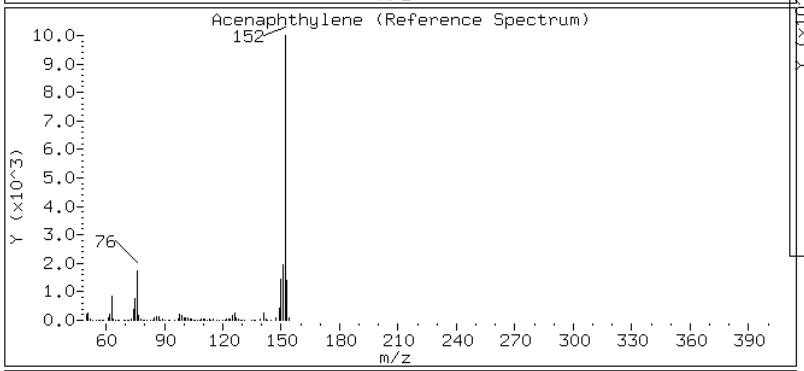
6 Acenaphthylene

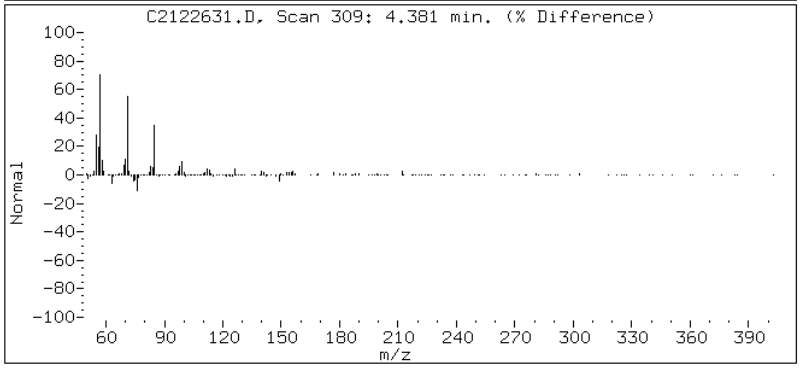












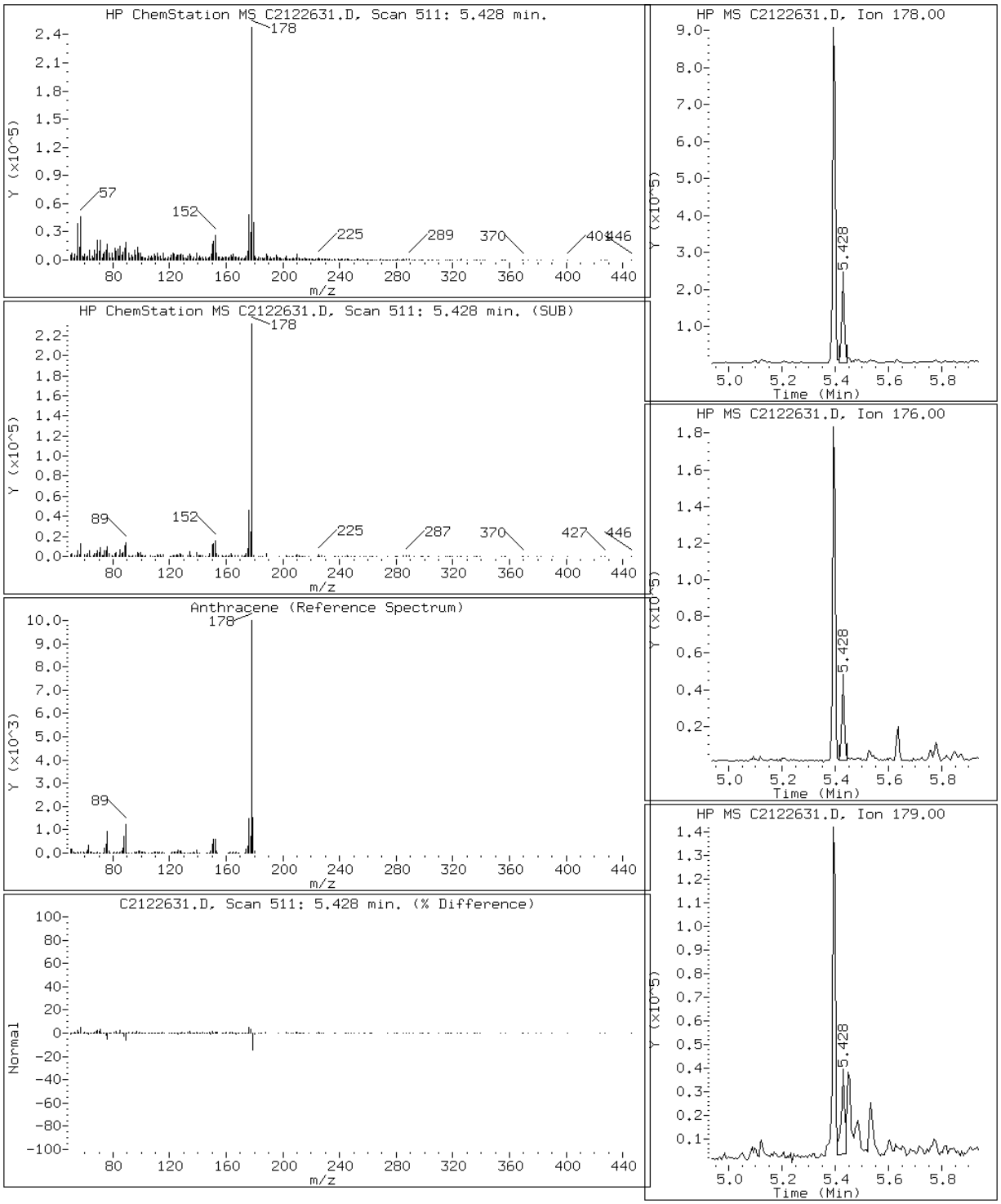
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

11 Anthracene



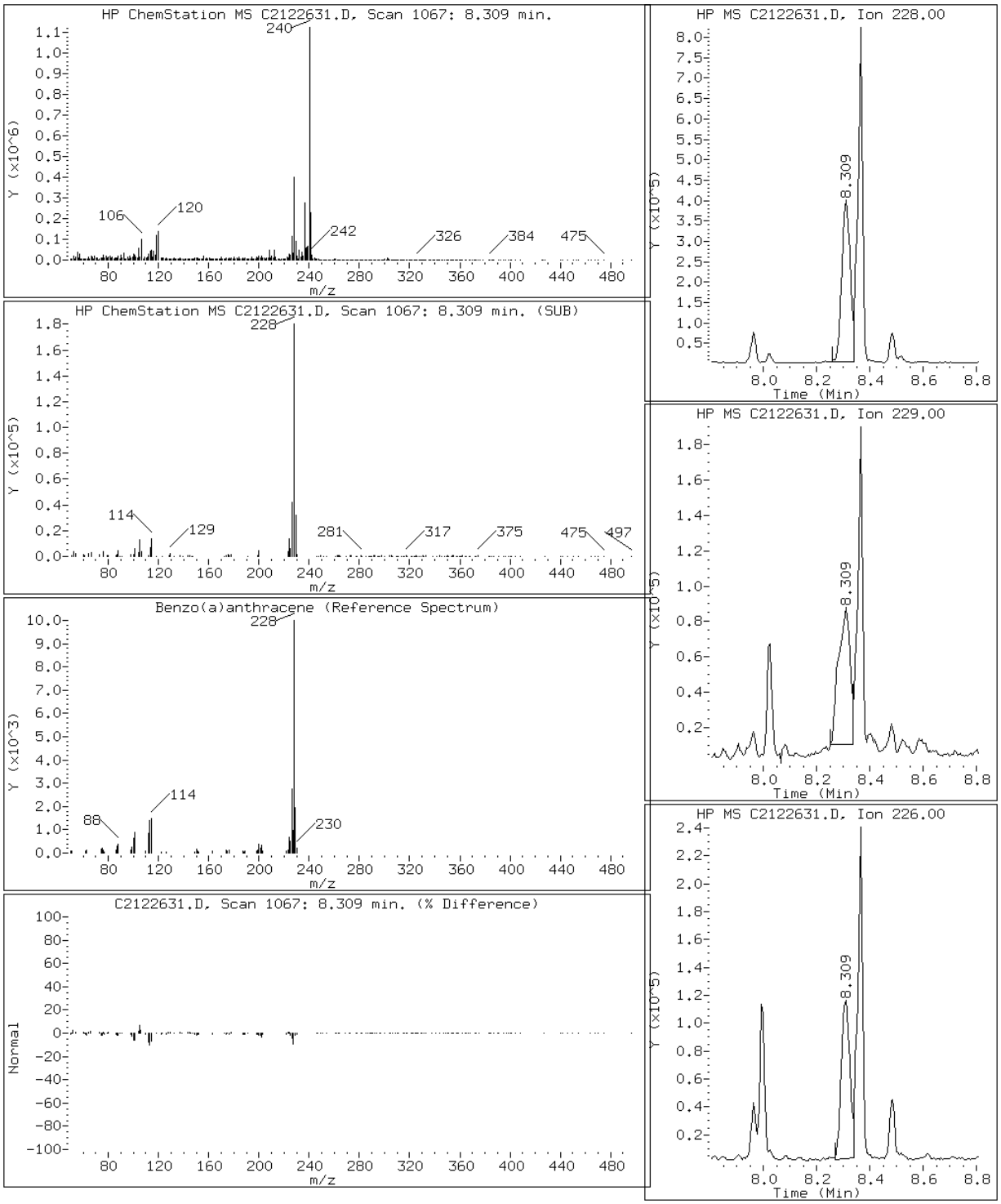
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



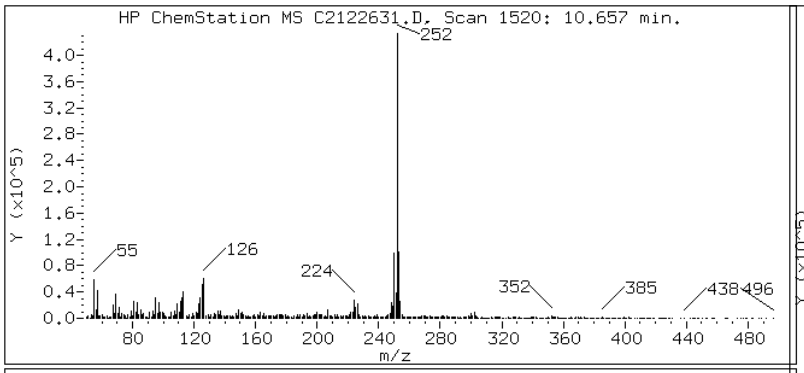
Data File: C2122631.D

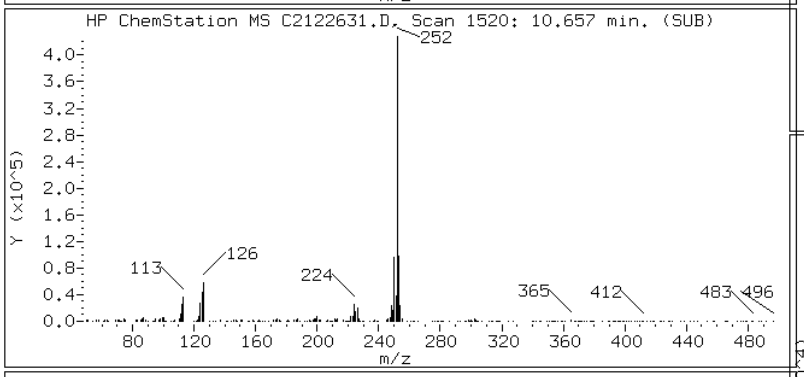
Date: 26-DEC-2012 22:35

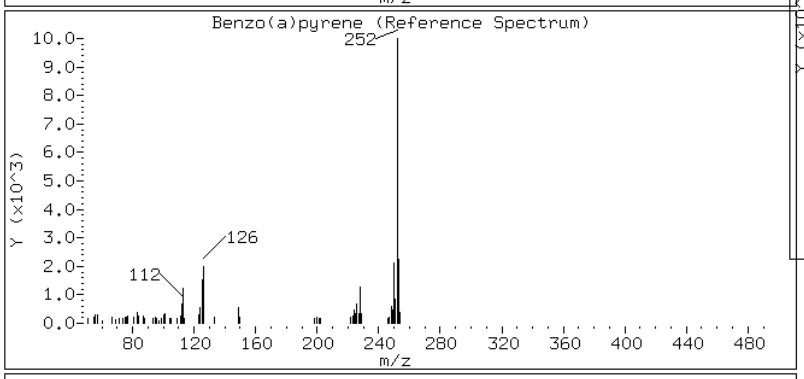
Client ID: CV0511C-CS Instrument: TSMC5973.i

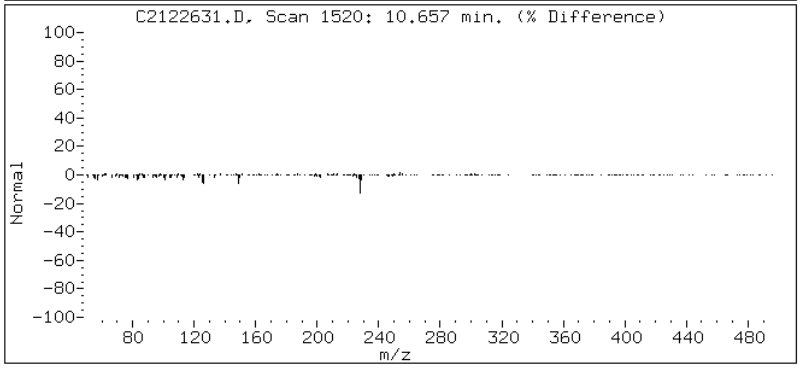
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

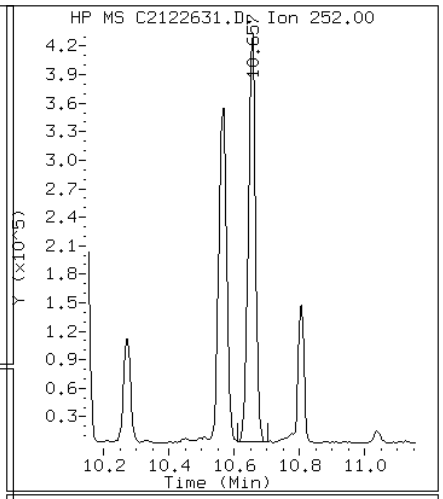
21 Benzo(a)pyrene

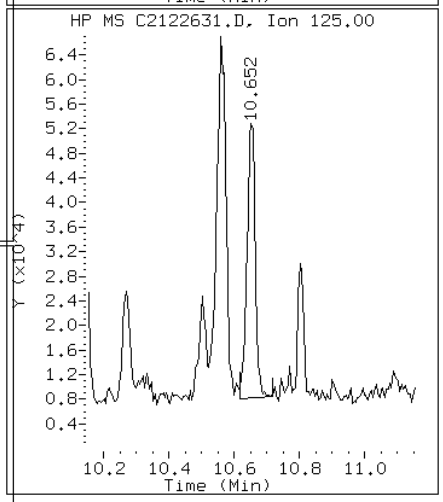












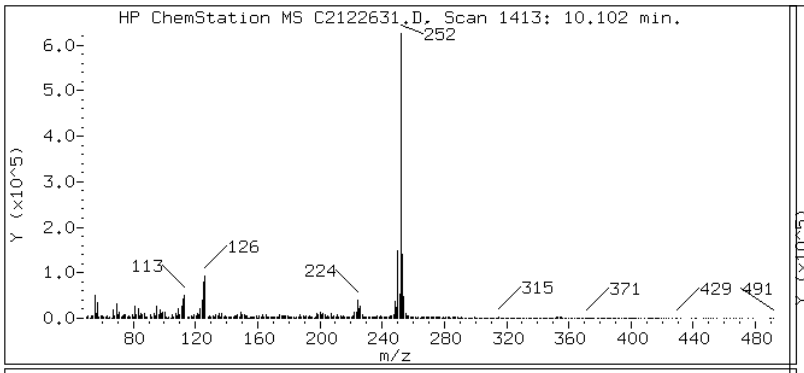
Data File: C2122631.D

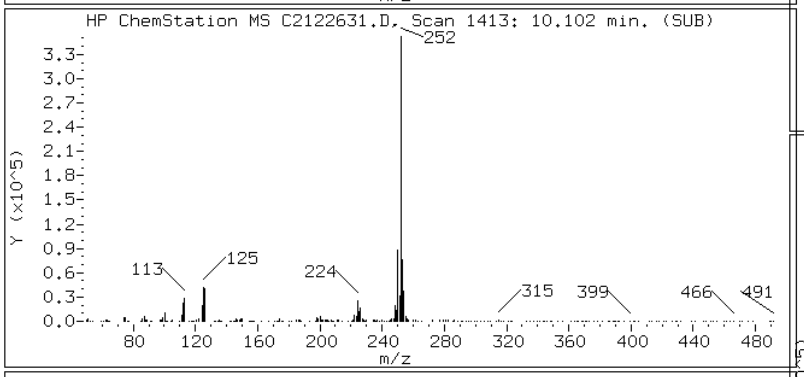
Date: 26-DEC-2012 22:35

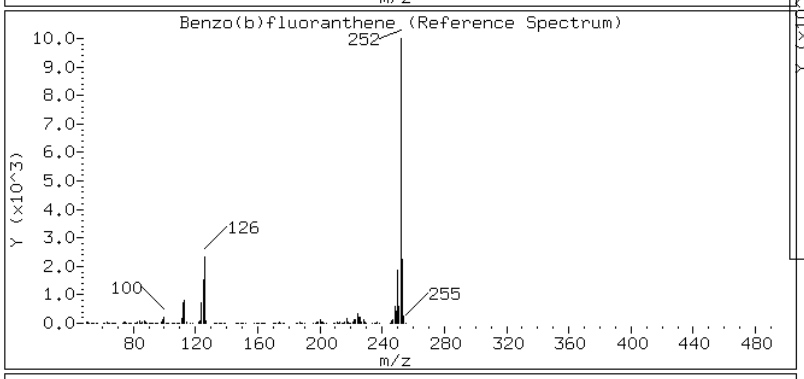
Client ID: CV0511C-CS Instrument: TSMC5973.i

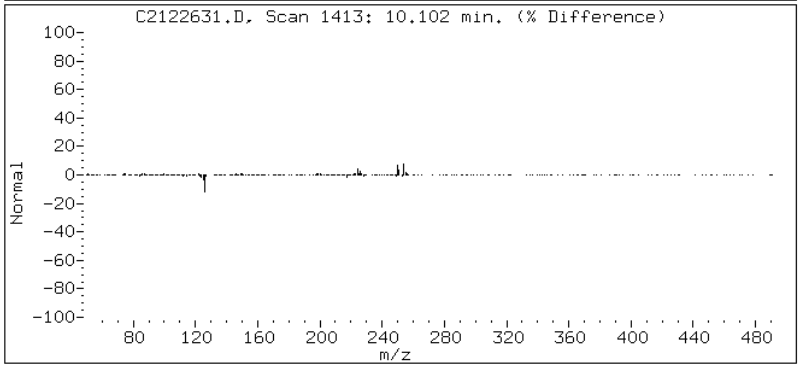
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

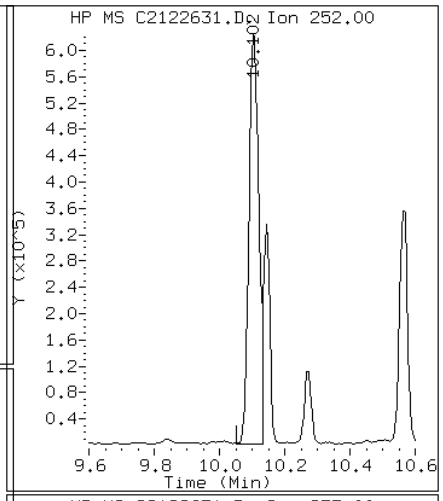
19 Benzo(b)fluoranthene

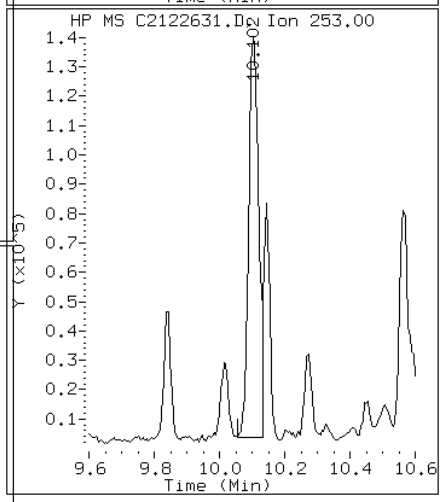












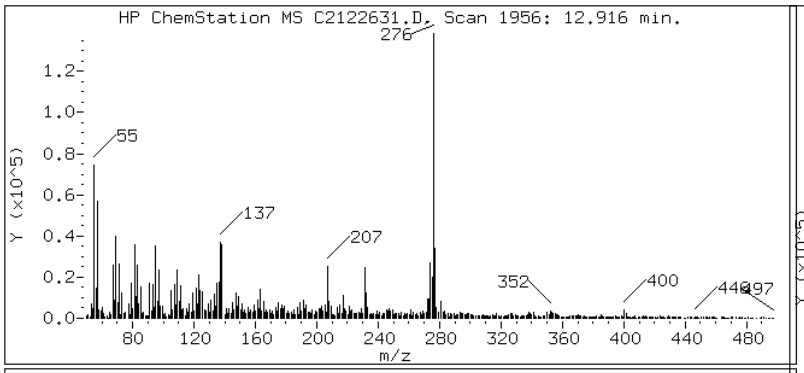
Data File: C2122631.D

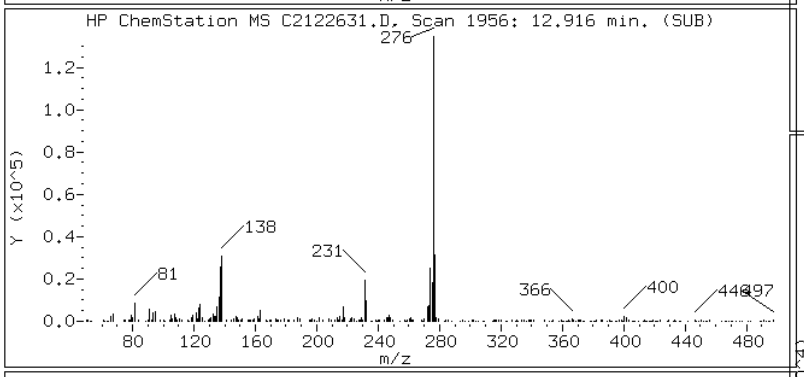
Date: 26-DEC-2012 22:35

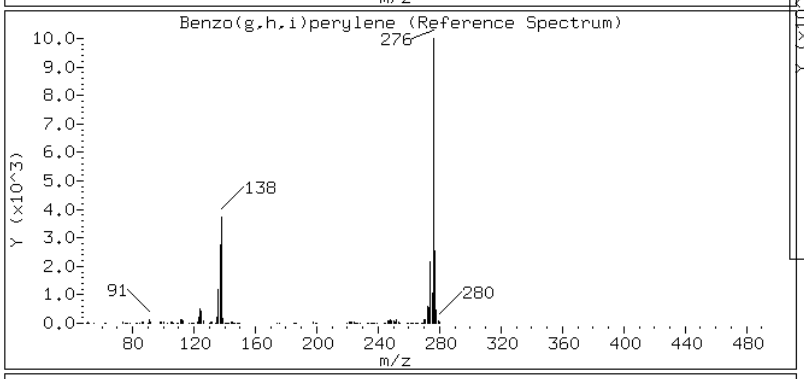
Client ID: CV0511C-CS Instrument: TSMC5973.i

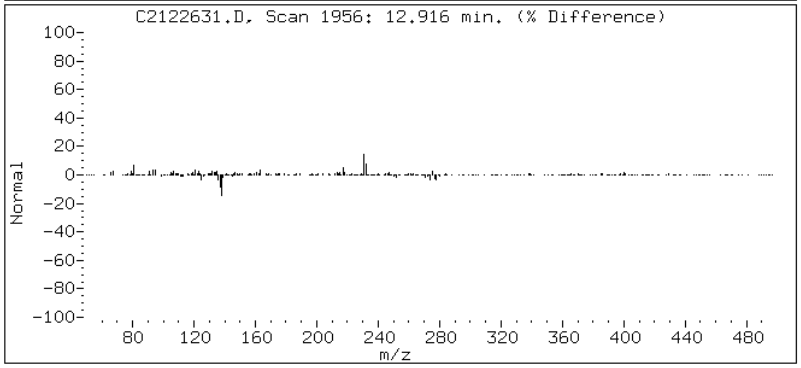
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

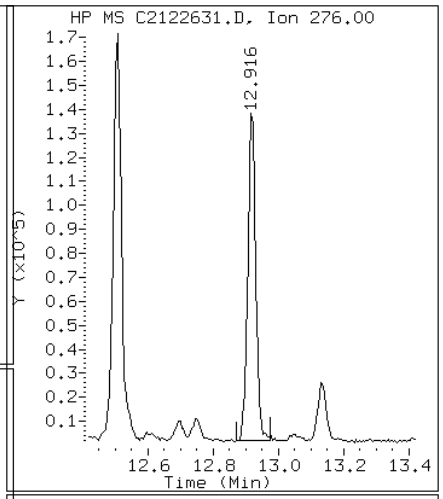
24 Benzo(g,h,i)perylene

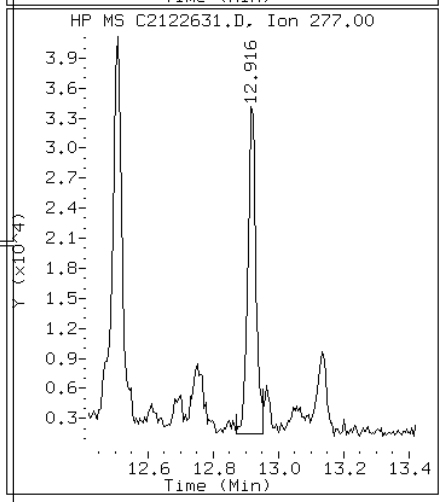












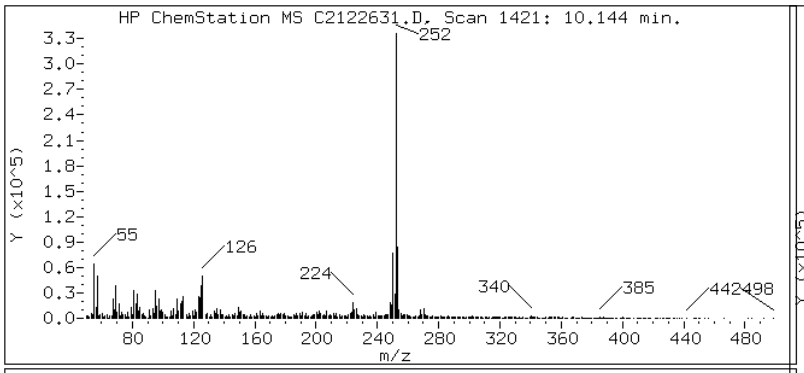
Data File: C2122631.D

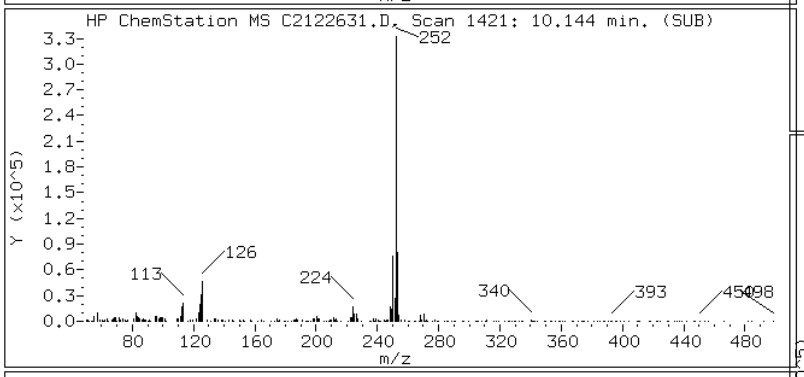
Date: 26-DEC-2012 22:35

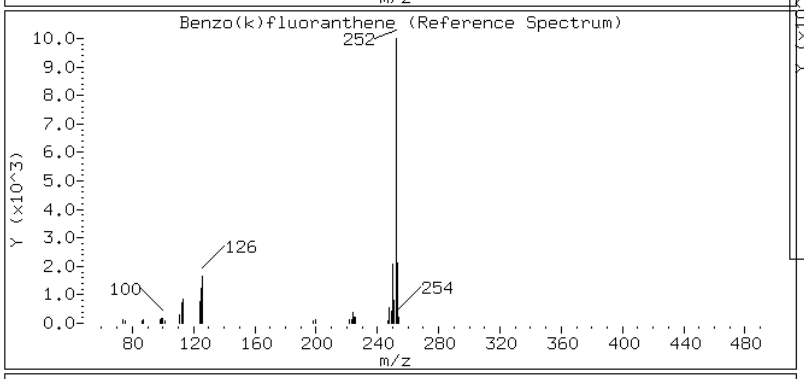
Client ID: CV0511C-CS Instrument: TSMC5973.i

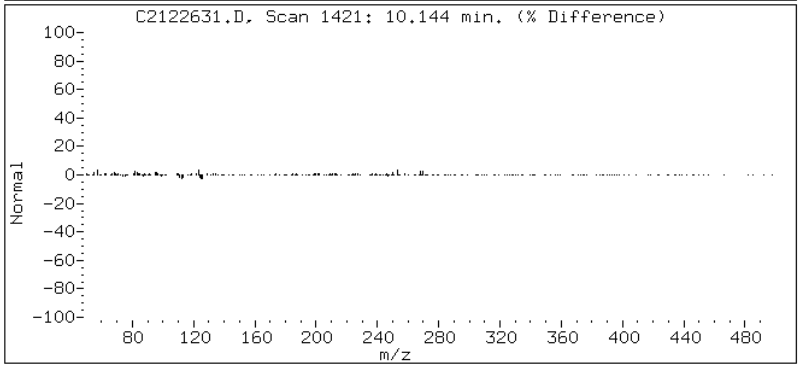
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

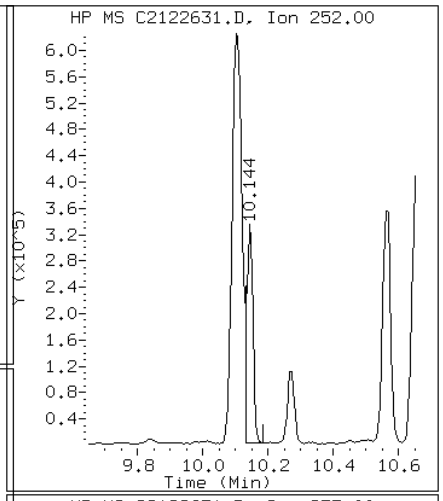
20 Benzo(k)fluoranthene

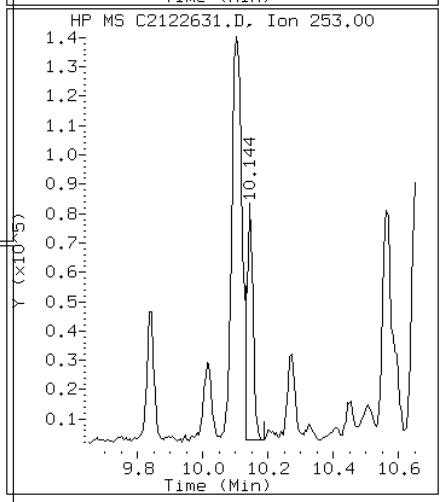












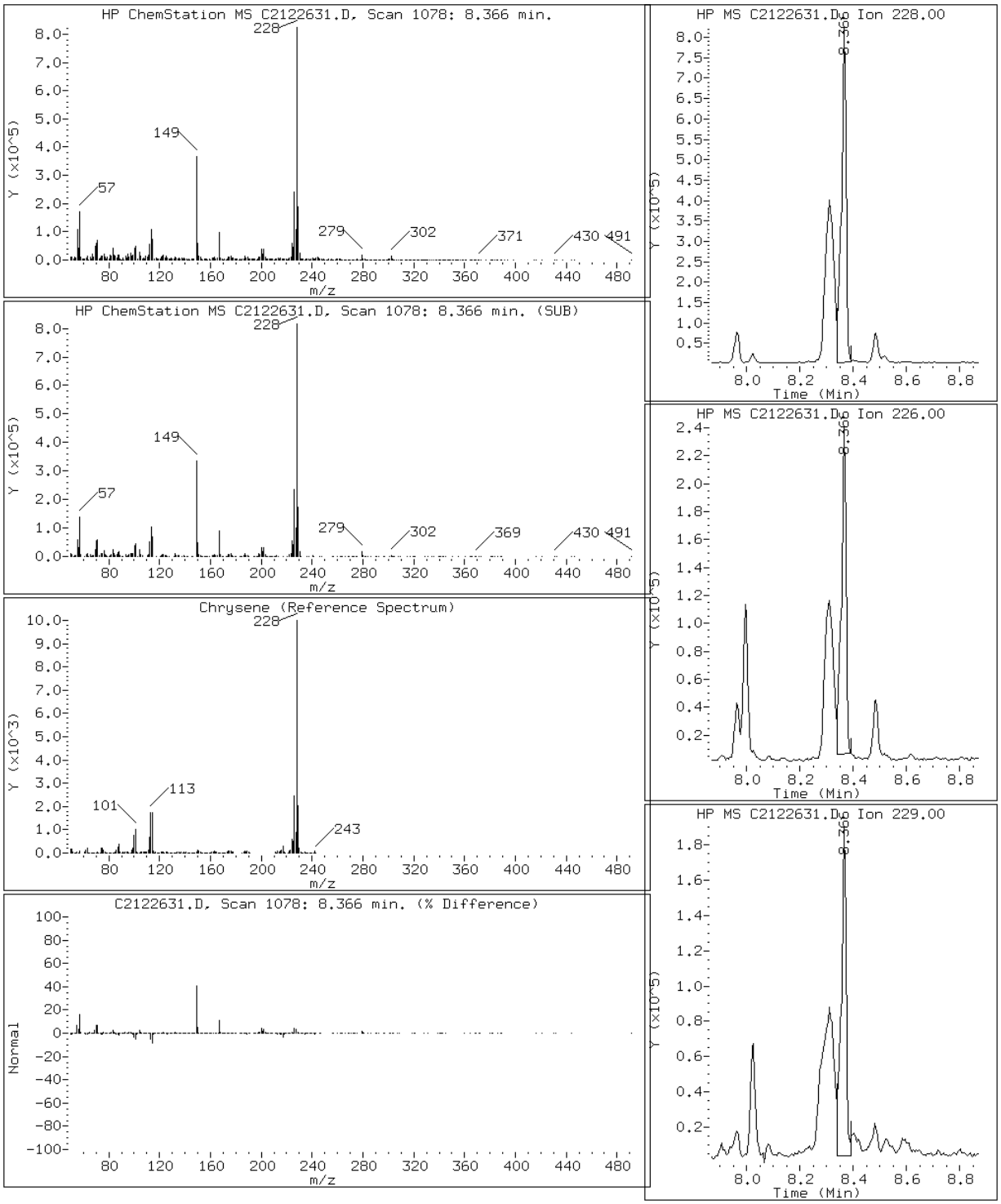
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

17 Chrysene



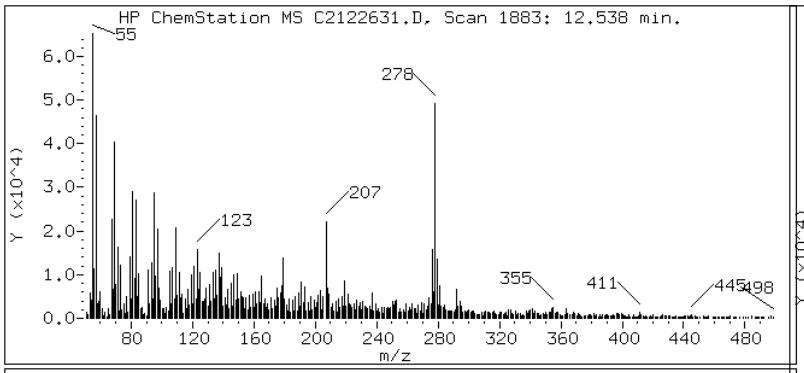
Data File: C2122631.D

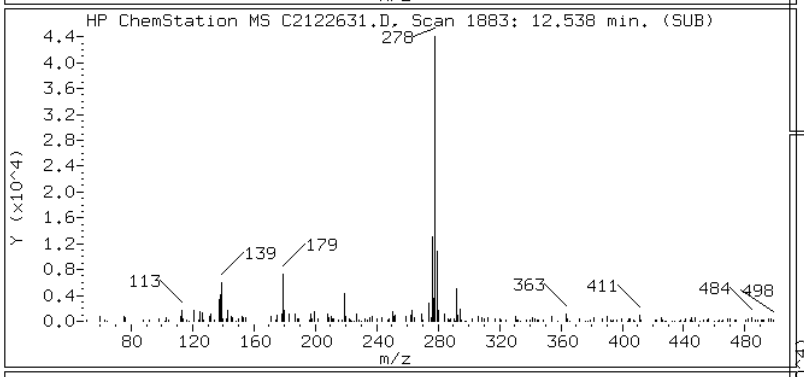
Date: 26-DEC-2012 22:35

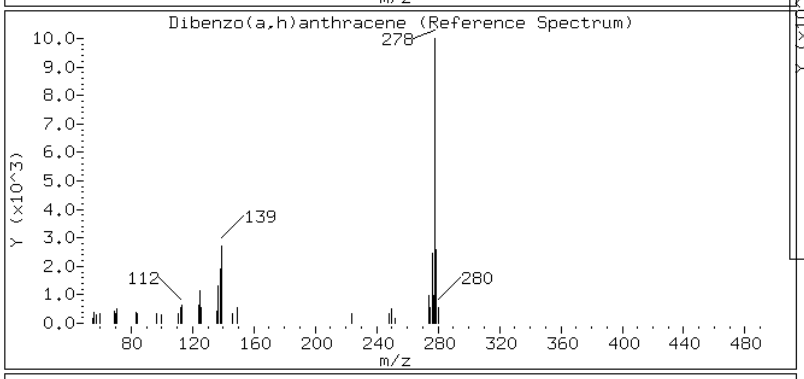
Client ID: CV0511C-CS Instrument: TSMC5973.i

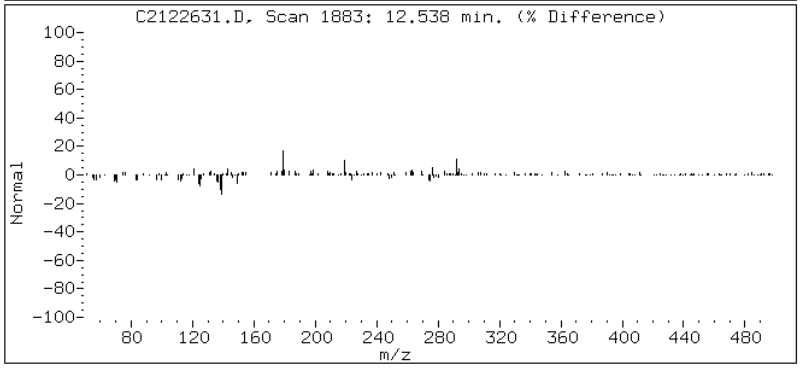
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

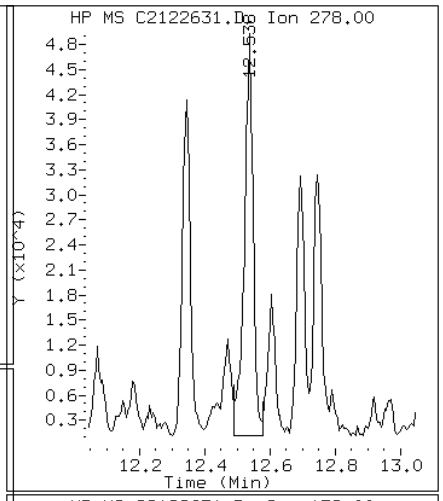
23 Dibenzo(a,h)anthracene

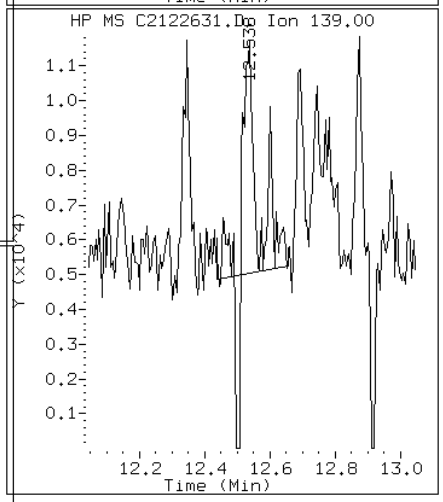












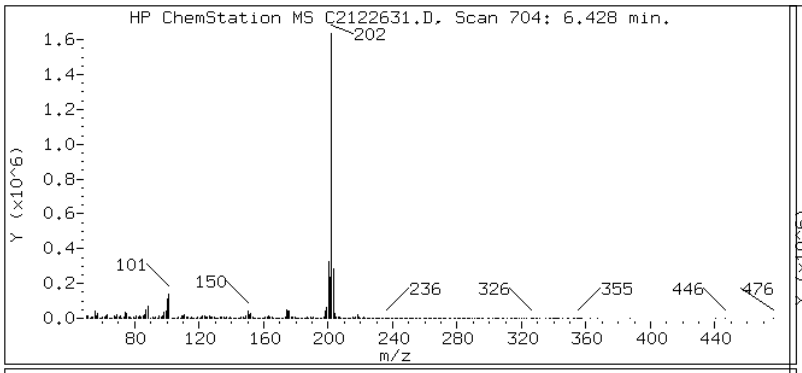
Data File: C2122631.D

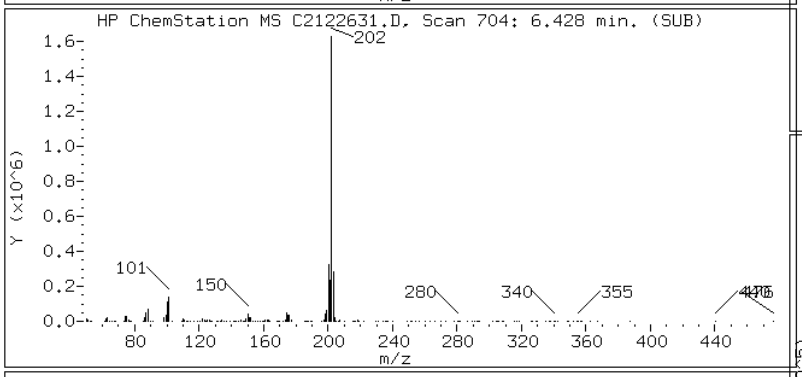
Date: 26-DEC-2012 22:35

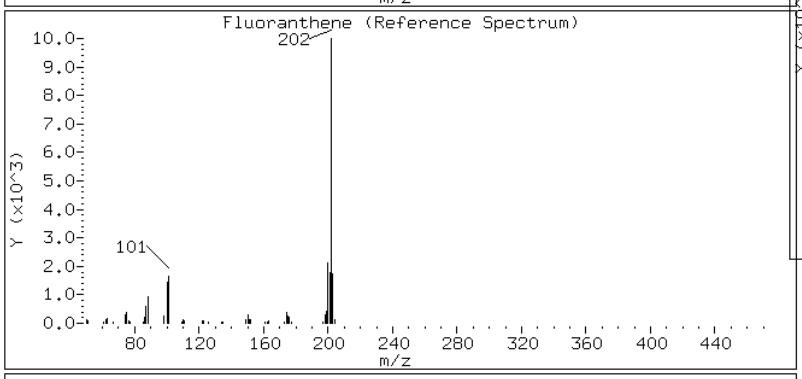
Client ID: CV0511C-CS Instrument: TSMC5973.i

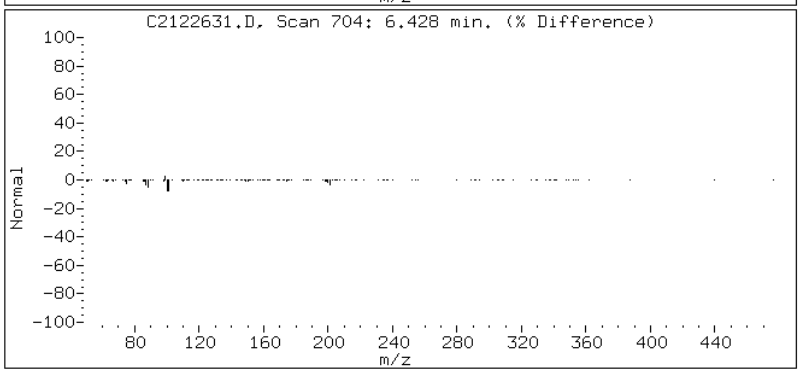
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

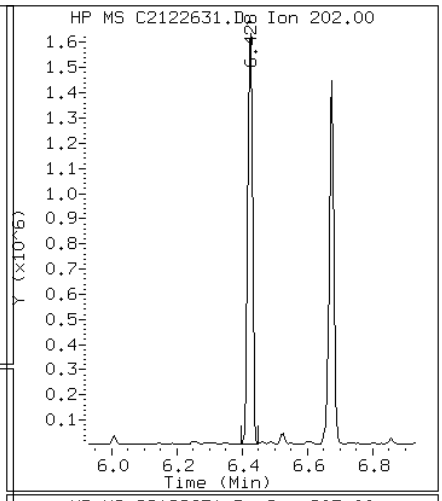
13 Fluoranthene

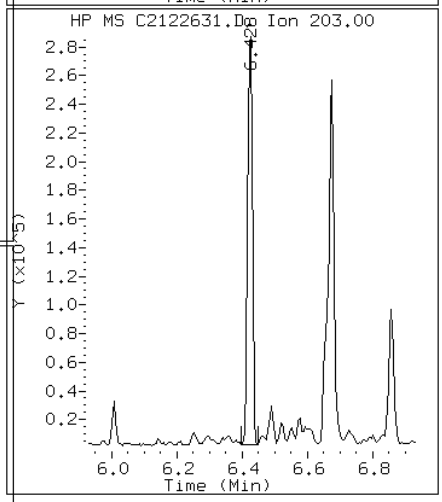












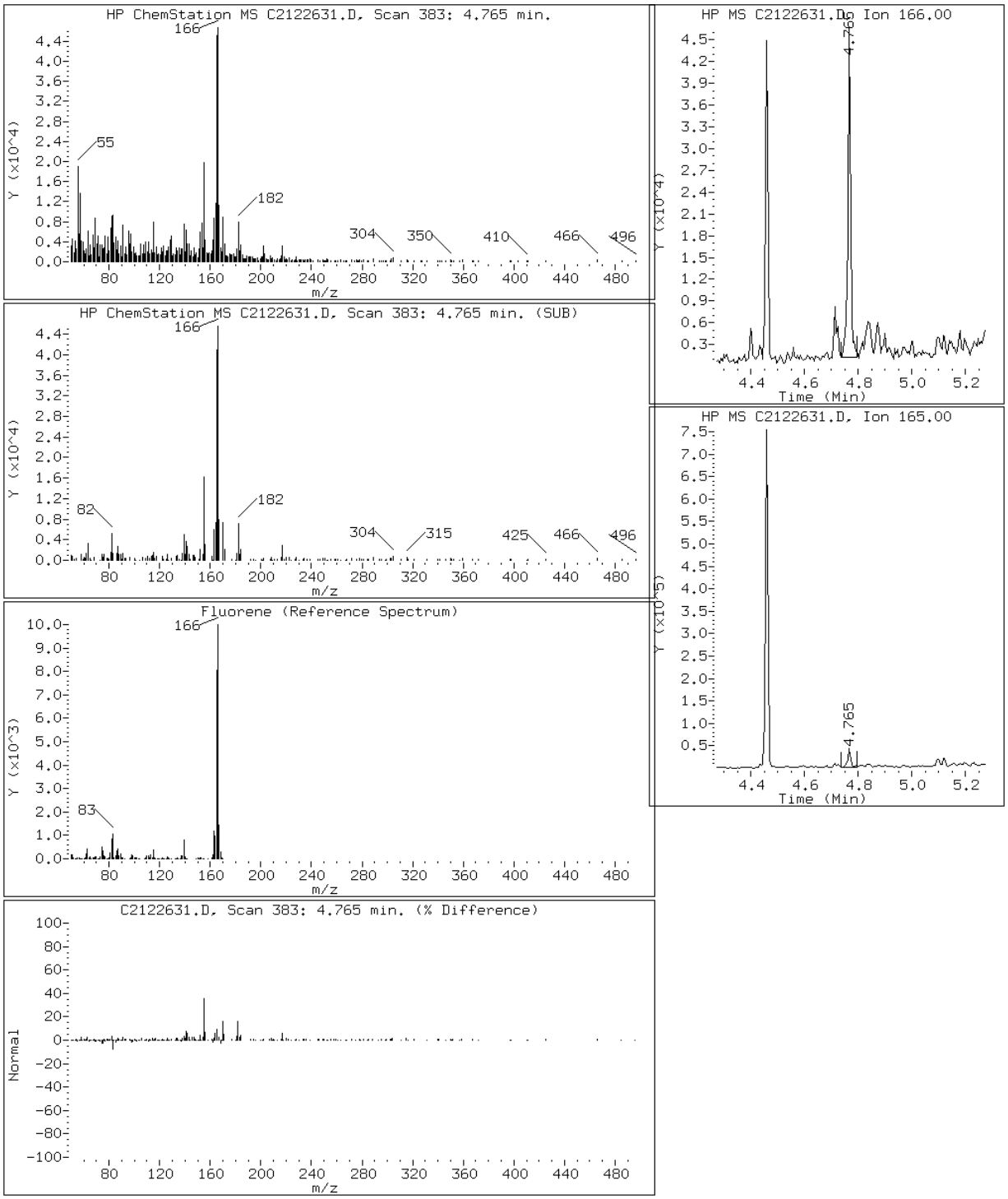
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

8 Fluorene



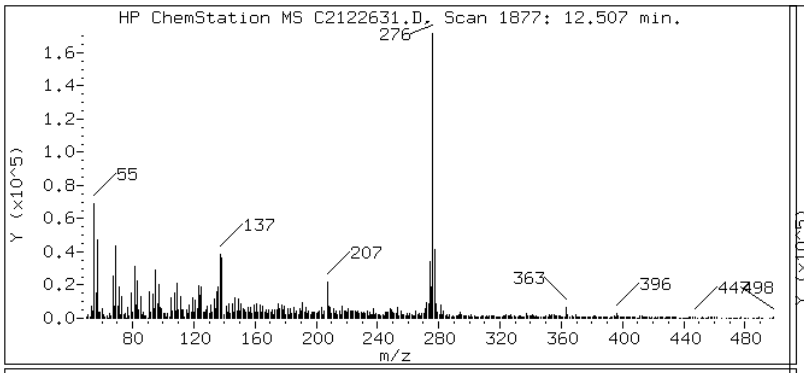
Data File: C2122631.D

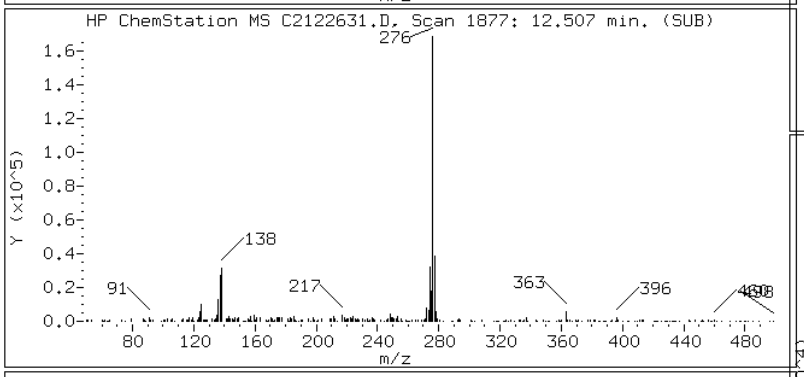
Date: 26-DEC-2012 22:35

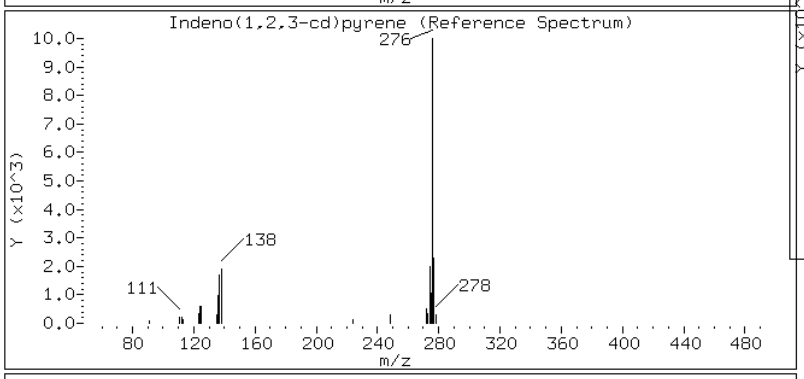
Client ID: CV0511C-CS Instrument: TSMC5973.i

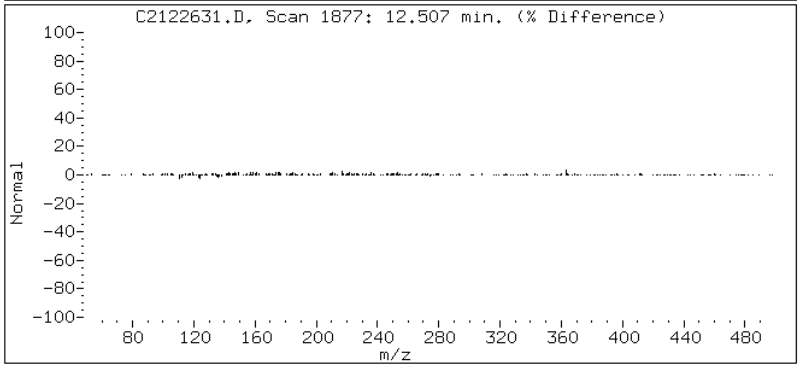
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

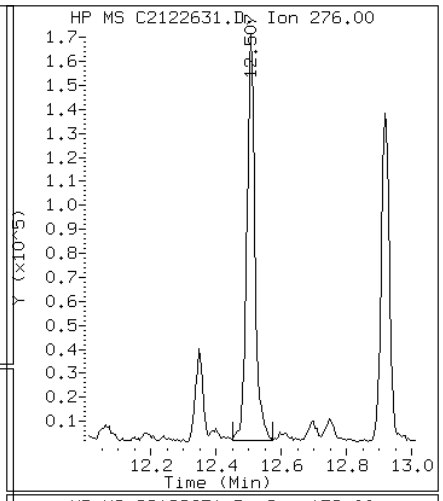
22 Indeno(1,2,3-cd)pyrene

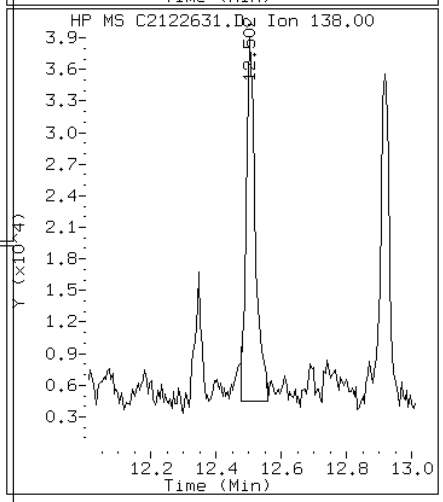












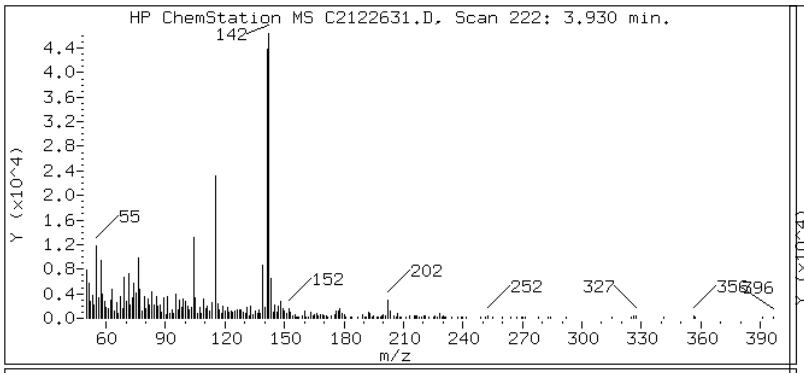
Data File: C2122631.D

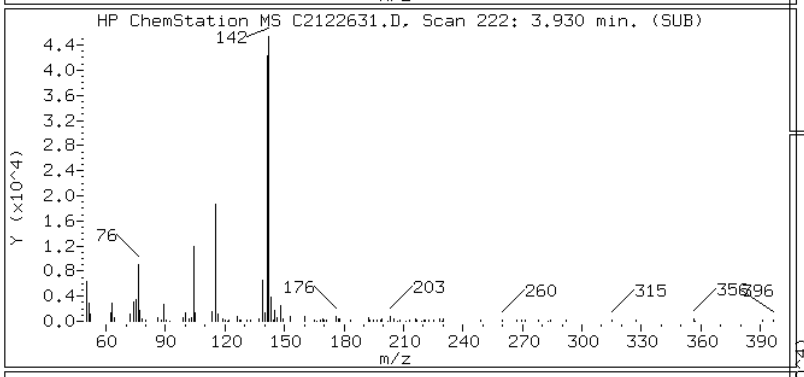
Date: 26-DEC-2012 22:35

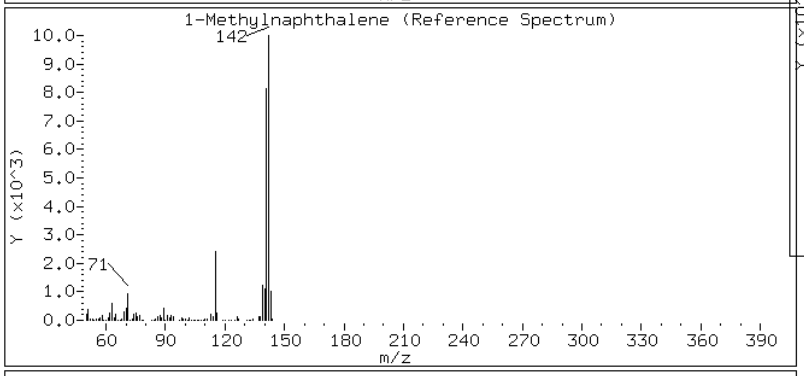
Client ID: CV0511C-CS Instrument: TSMC5973.i

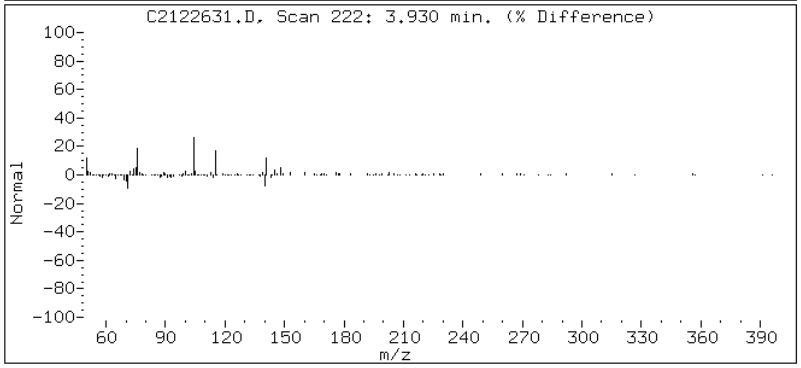
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

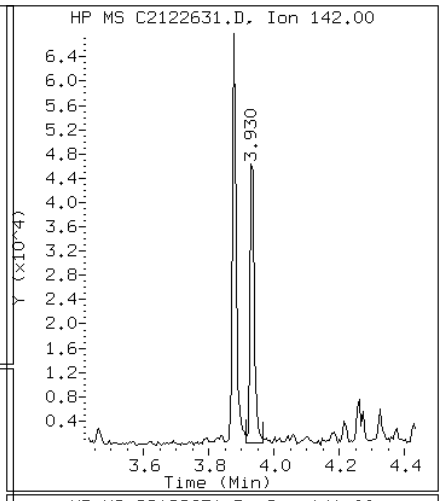
4 1-Methylnaphthalene

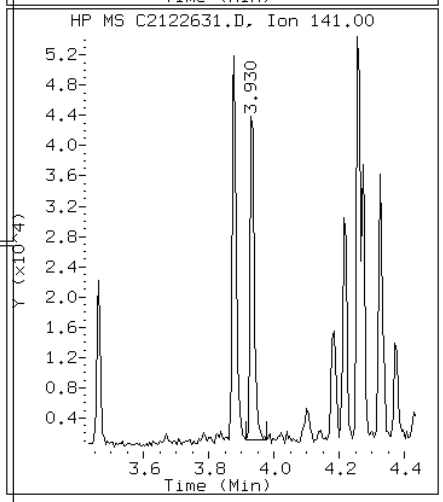












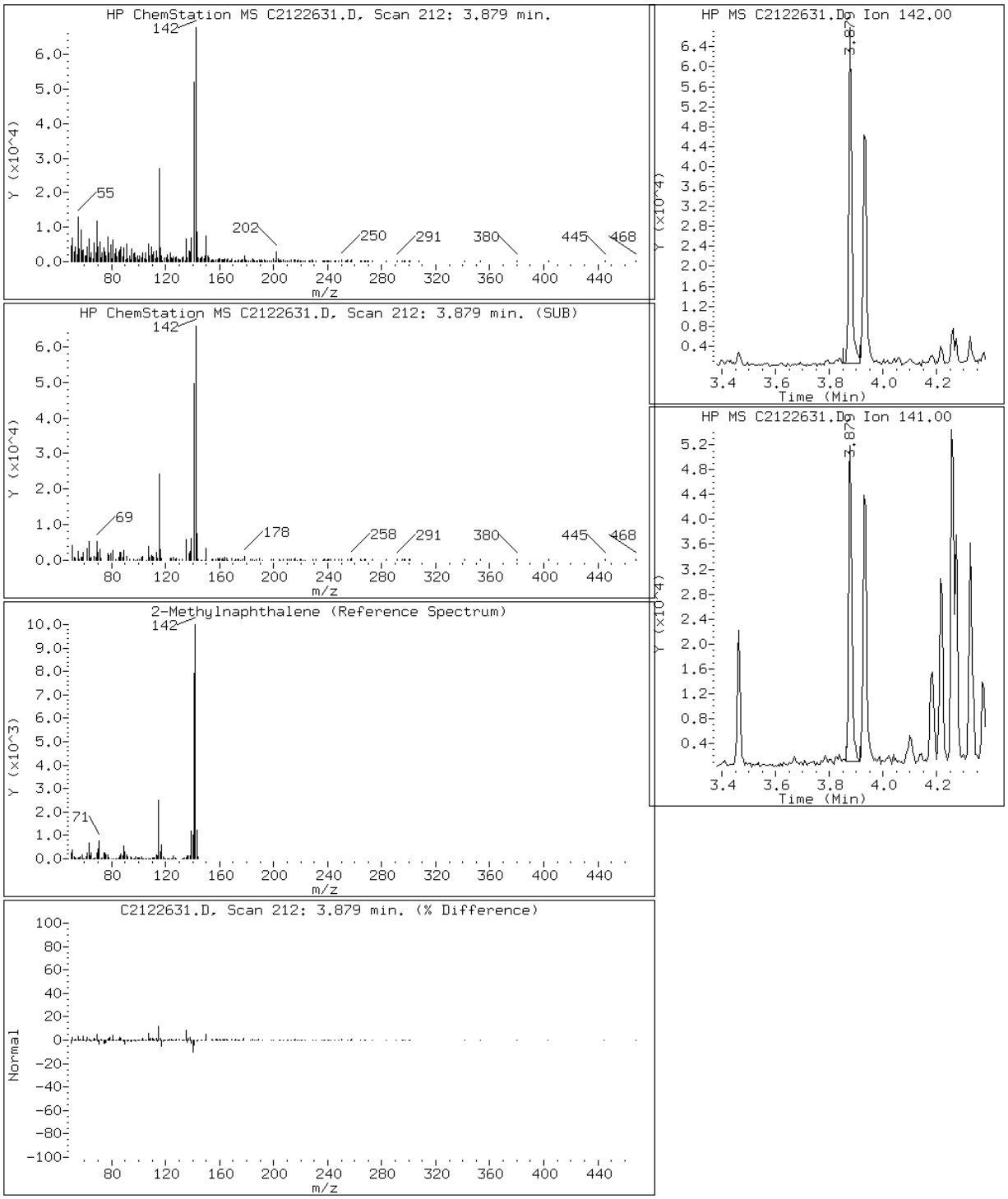
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



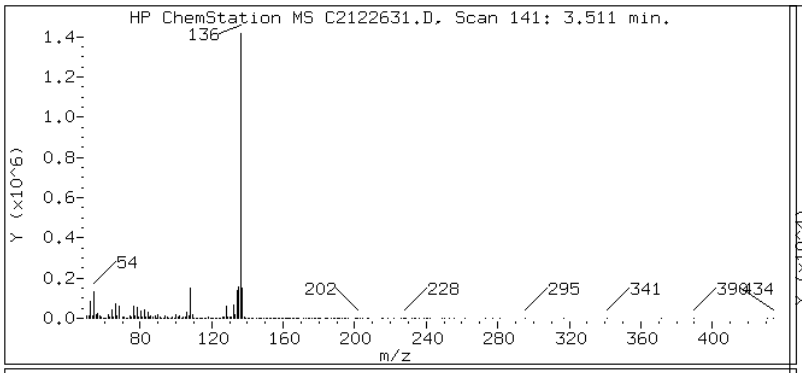
Data File: C2122631.D

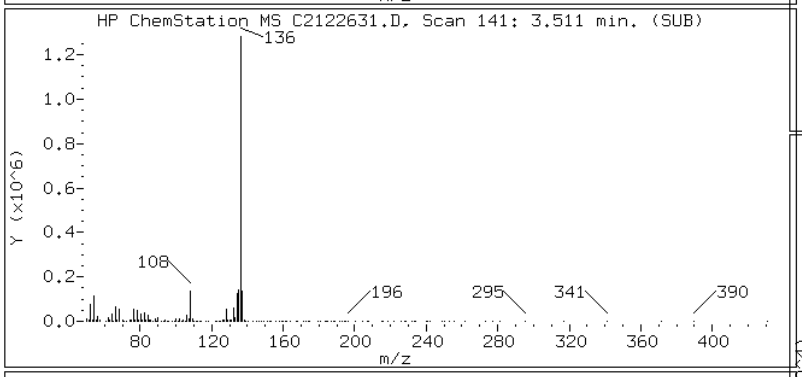
Date: 26-DEC-2012 22:35

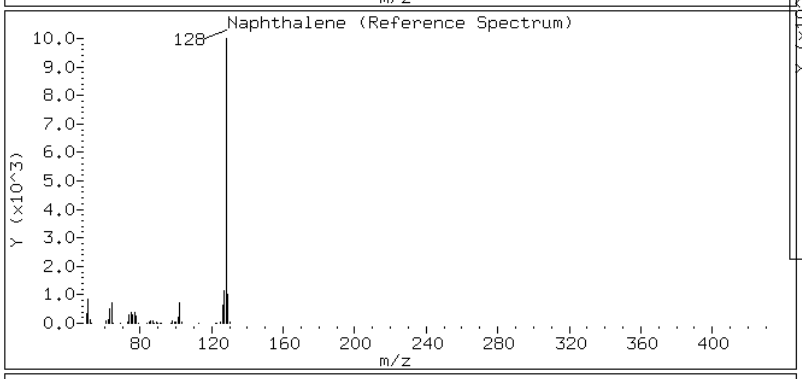
Client ID: CV0511C-CS Instrument: TSMC5973.i

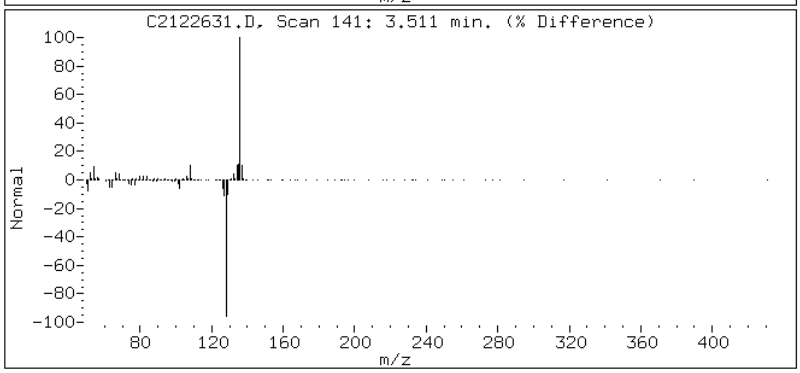
Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

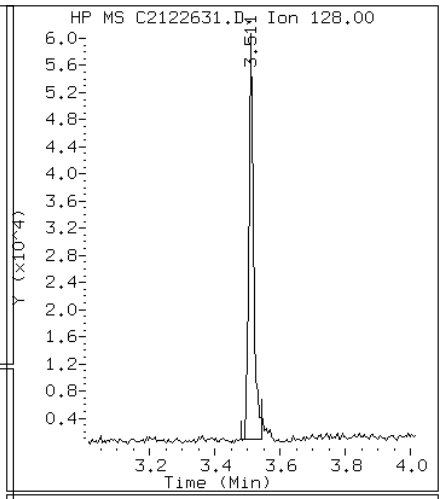
2 Naphthalene

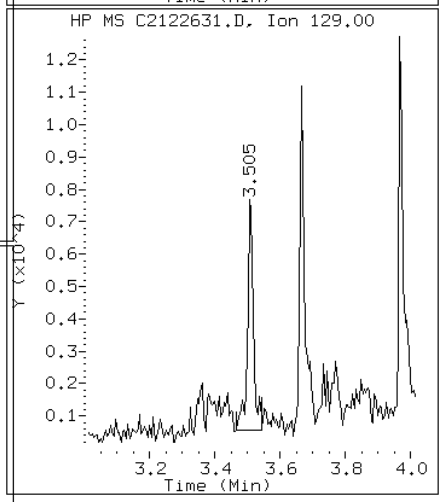












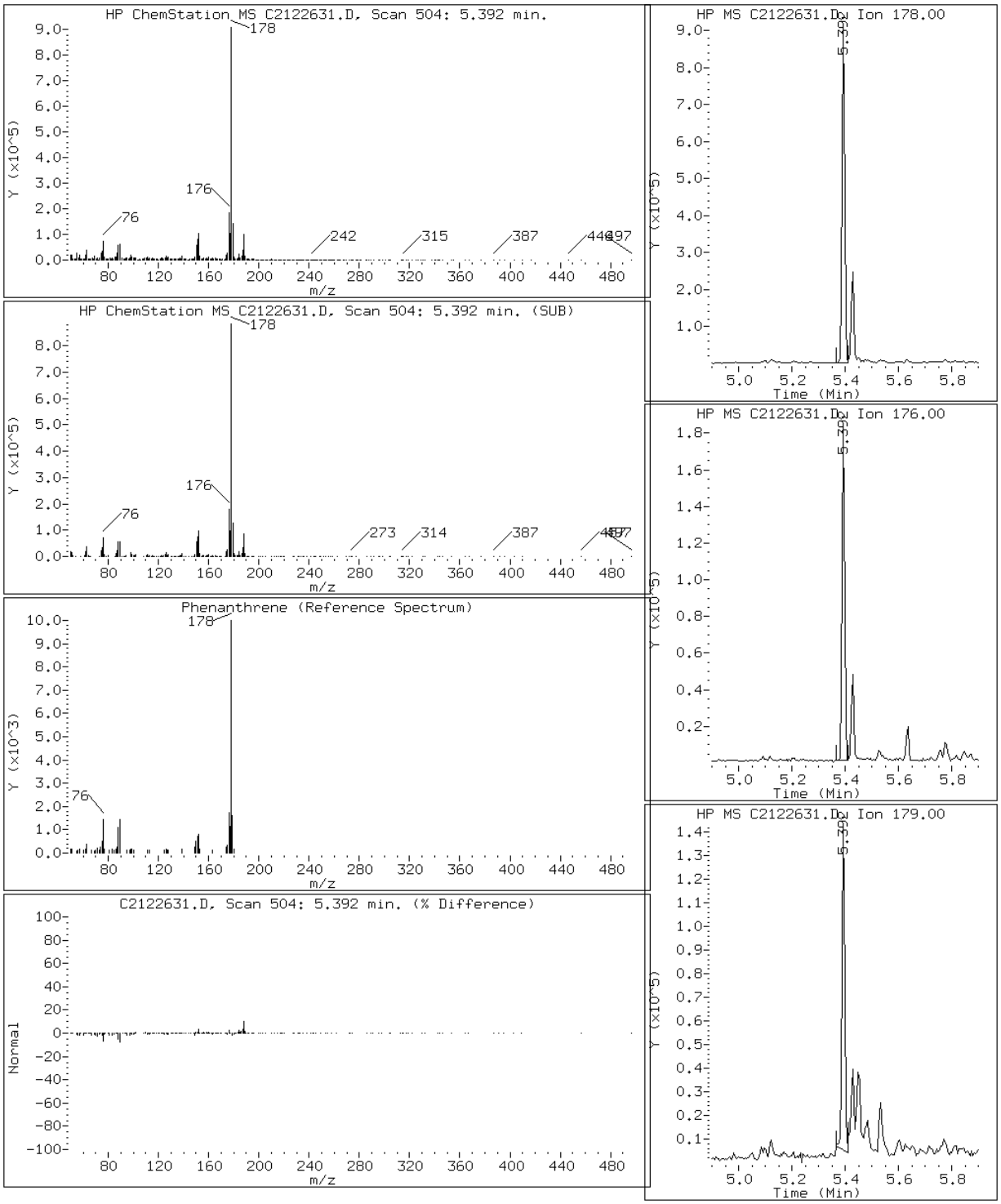
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



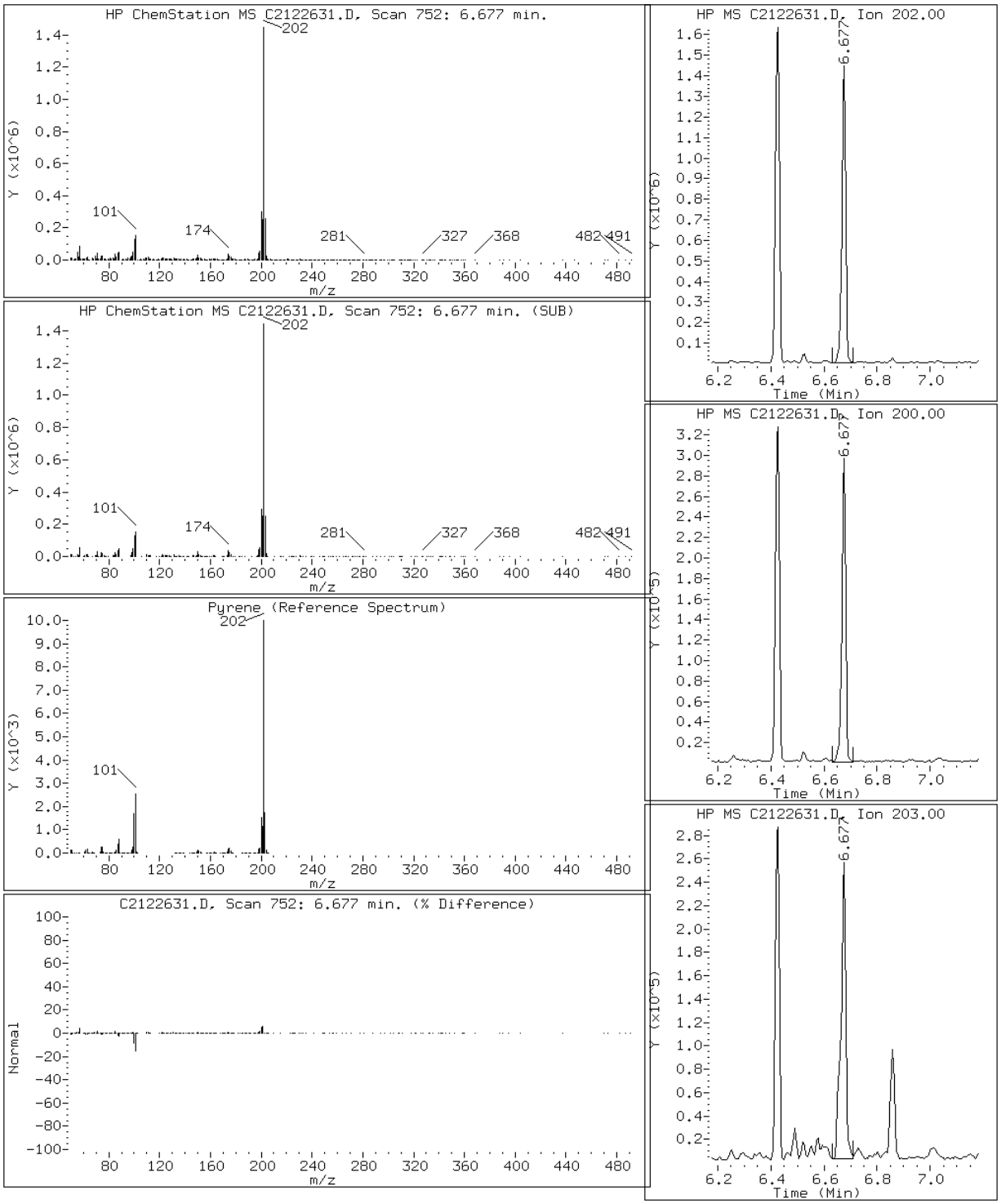
Data File: C2122631.D

Date: 26-DEC-2012 22:35

Client ID: CV0511C-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-34-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122631.D
Inj. Date and Time: 26-DEC-2012 22:35
Instrument ID: TSMC5973.i
Client ID: CV0511C-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

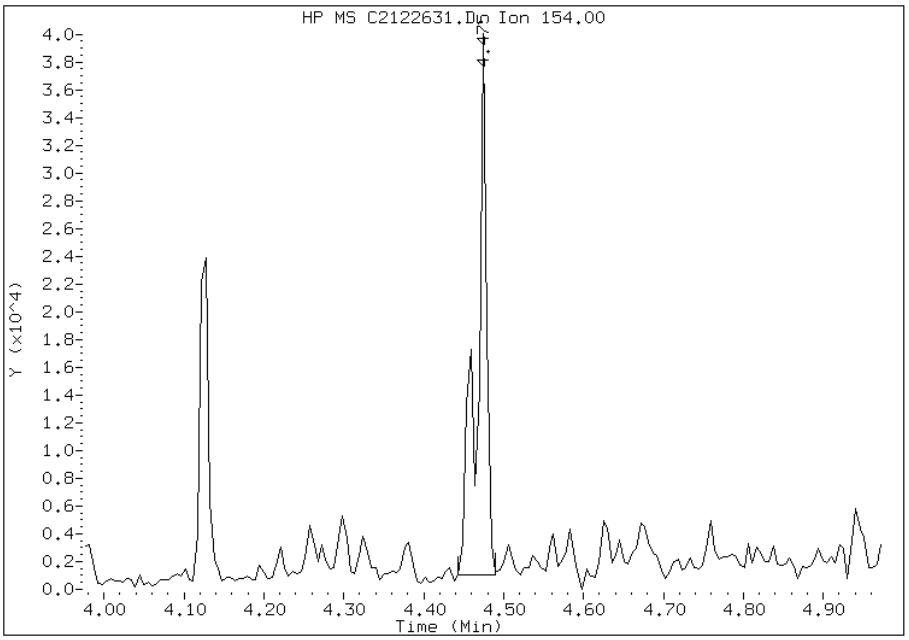
Processing Integration Results

RT: 4.47

Response: 34031

Amount: 0

Conc: 11



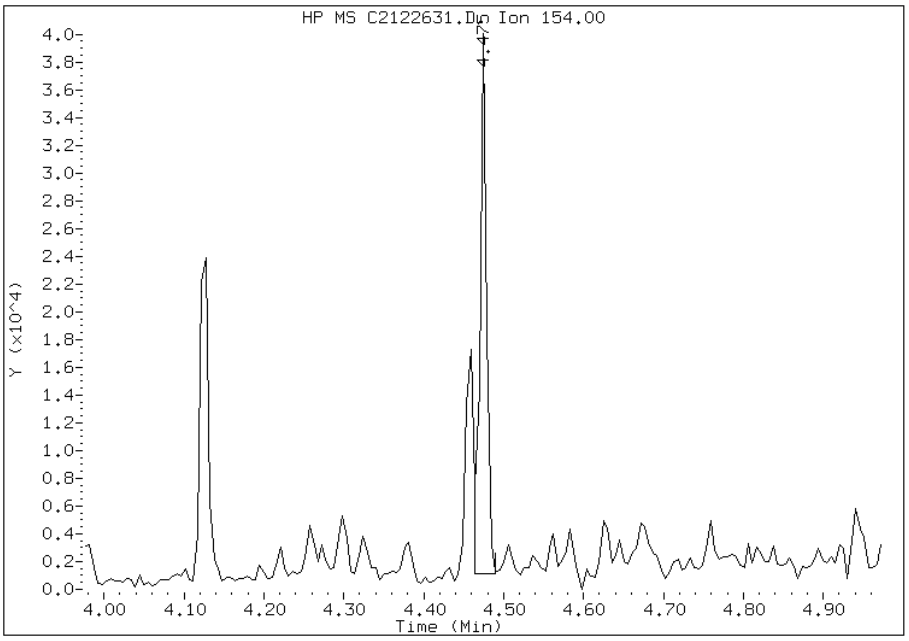
Manual Integration Results

RT: 4.47

Response: 24263

Amount: 0

Conc: 8



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122631.D
Inj. Date and Time: 26-DEC-2012 22:35
Instrument ID: TSMC5973.i
Client ID: CV0511C-CS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

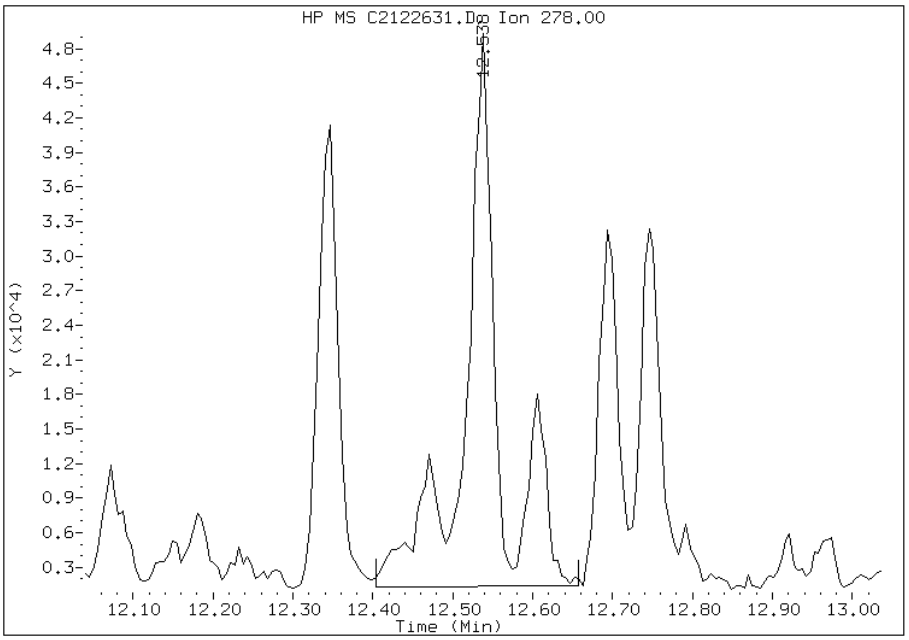
Processing Integration Results

RT: 12.54

Response: 144099

Amount: 1

Conc: 32



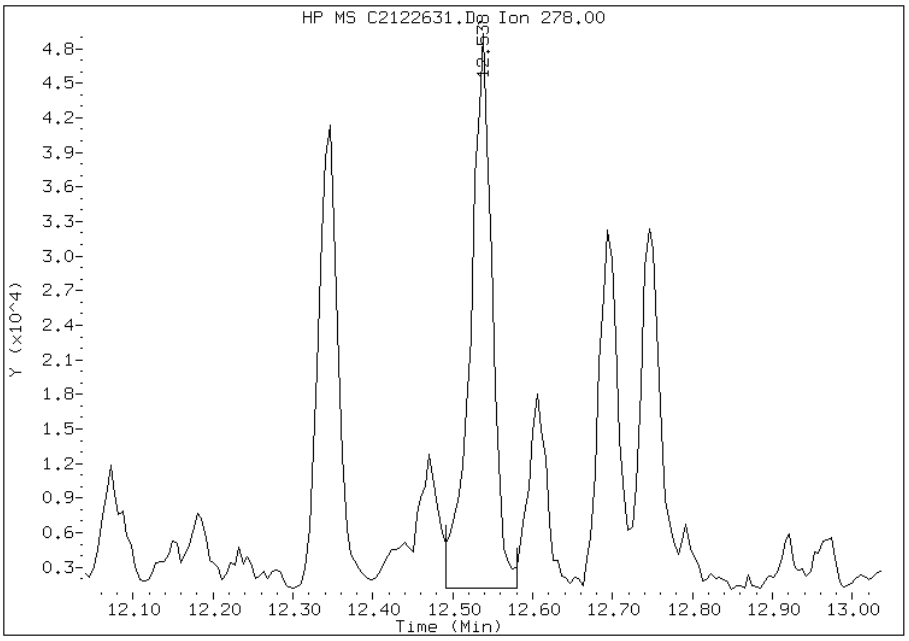
Manual Integration Results

RT: 12.54

Response: 92654

Amount: 1

Conc: 20



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:33
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511C-CSD | Lab Sample ID: 680-85785-35

Matrix: Solid | Lab File ID: C2122632.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:10

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.45(g) | Date Analyzed: 12/26/2012 22:53

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	14		9.5	0.82
208-96-8	Acenaphthylene	20		9.5	0.75
120-12-7	Anthracene	50		9.5	0.93
56-55-3	Benzo[a]anthracene	200		9.5	0.87
50-32-8	Benzo[a]pyrene	250		9.5	0.96
205-99-2	Benzo[b]fluoranthene	450		9.5	1.3
191-24-2	Benzo[g,h,i]perylene	71		9.5	1.6
207-08-9	Benzo[k]fluoranthene	160		9.5	0.90
218-01-9	Chrysene	260		9.5	1.1
53-70-3	Dibenz(a,h)anthracene	28		9.5	0.92
206-44-0	Fluoranthene	400		9.5	0.85
86-73-7	Fluorene	13		9.5	0.73
193-39-5	Indeno[1,2,3-cd]pyrene	91		9.5	1.6
90-12-0	1-Methylnaphthalene	17		9.5	0.75
91-57-6	2-Methylnaphthalene	22		9.5	0.73
91-20-3	Naphthalene	19		9.5	0.73
85-01-8	Phenanthrene	200		9.5	0.62
129-00-0	Pyrene	300		9.5	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	85		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122632.D
Lab Smp Id: 680-85785-A-35-A Client Smp ID: CV0511C-CSD
Inj Date : 26-DEC-2012 22:53
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-35-A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.450	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.941)	150923	2.18655	72	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	6414678	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	62446	0.39835	13	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	56493	0.47486	16	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	43139	0.36967	12	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3565318	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	81585	0.42585	14	
7 Acenaphthene	154	4.474	4.479	(1.003)	28904	0.28837	9.5(M)	SP
8 Fluorene	166	4.764	4.774	(1.069)	35787	0.26746	8.8	
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	5924976	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.002)	692090	4.18414	140	
11 Anthracene	178	5.428	5.438	(1.009)	190157	1.05947	35	
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	368835	3.41372	110	
13 Fluoranthene	202	6.428	6.433	(1.195)	1900834	8.60192	280	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.340	8.340	(1.000)	7036903	40.0000		
15 Pyrene	202	6.676	6.682	(0.801)	1669840	6.33394	210	
16 Benzo(a)anthracene	228	8.309	8.309	(0.996)	1015298	4.20198	140	
17 Chrysene	228	8.366	8.371	(1.003)	1168559	5.60741	180	
* 18 Perylene-d12	264	10.776	10.781	(1.000)	4628445	40.0000		
19 Benzo(b)fluoranthene	252	10.107	10.102	(0.938)	1416065	9.60405	320	
20 Benzo(k)fluoranthene	252	10.143	10.154	(0.941)	473439	3.30585	110	
21 Benzo(a)pyrene	252	10.656	10.656	(0.989)	689333	5.26725	170	
22 Indeno(1,2,3-cd)pyrene	276	12.501	12.512	(1.160)	271060	1.93916	64	
23 Dibenzo(a,h)anthracene	278	12.538	12.548	(1.164)	81708	0.59555	20(QM)	BAS
24 Benzo(g,h,i)perylene	276	12.921	12.921	(1.199)	208290	1.50420	49	

QC Flag Legend

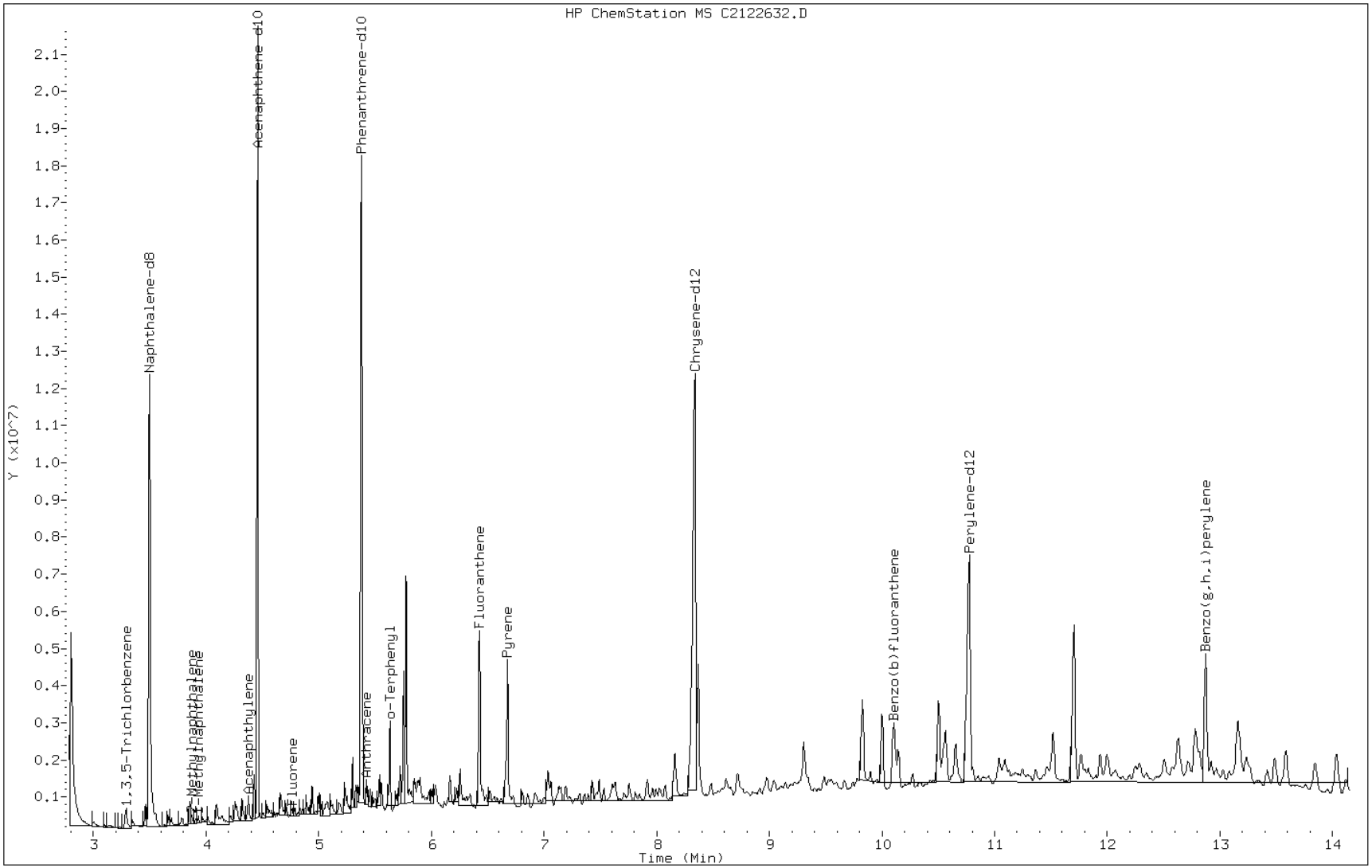
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW



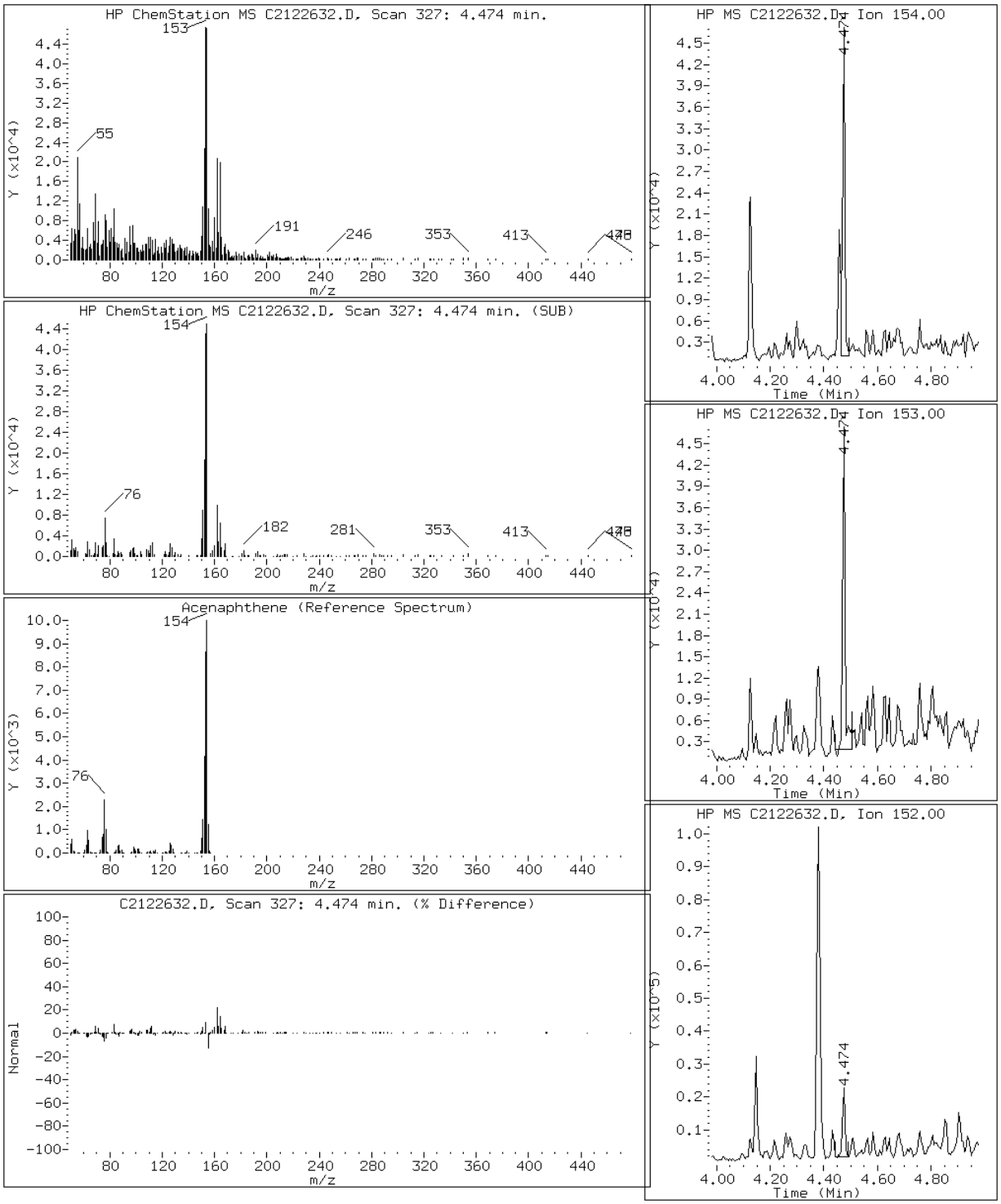
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

7 Acenaphthene



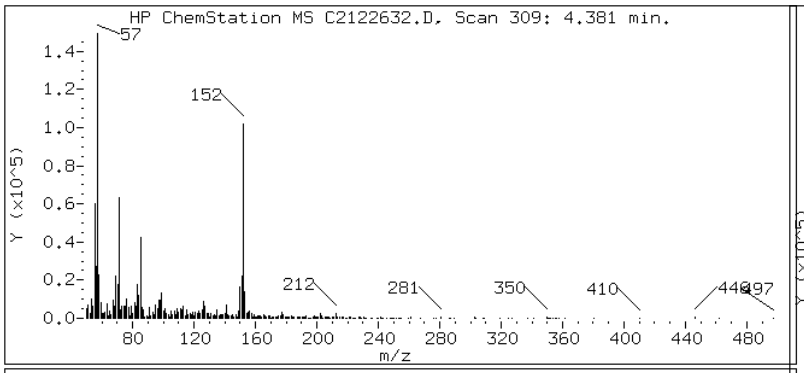
Data File: C2122632.D

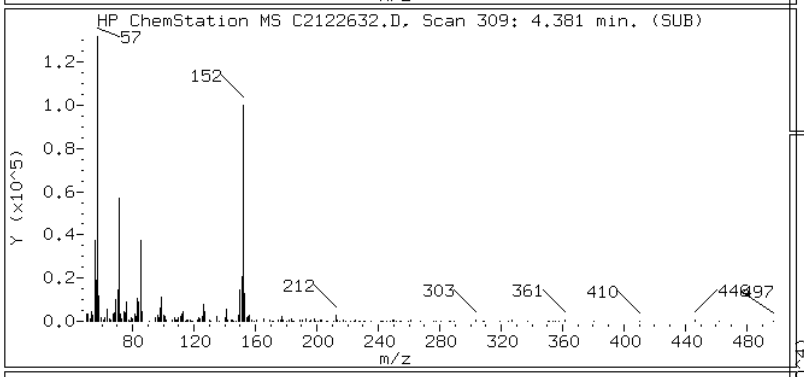
Date: 26-DEC-2012 22:53

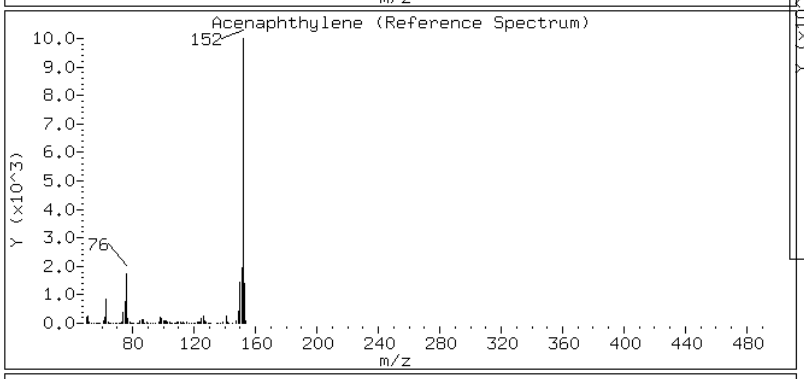
Client ID: CV0511C-CSD Instrument: TSMC5973.i

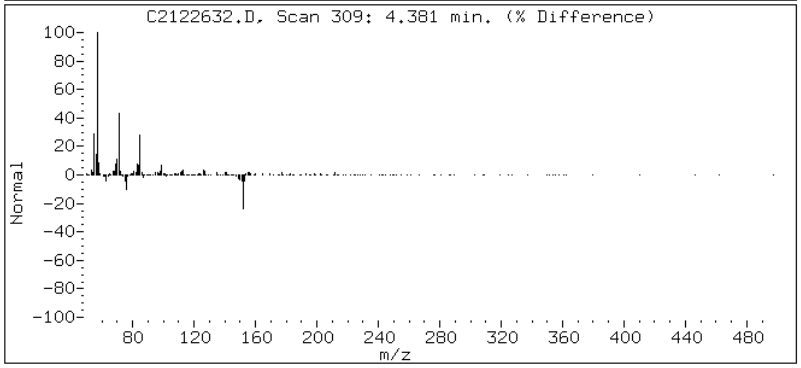
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

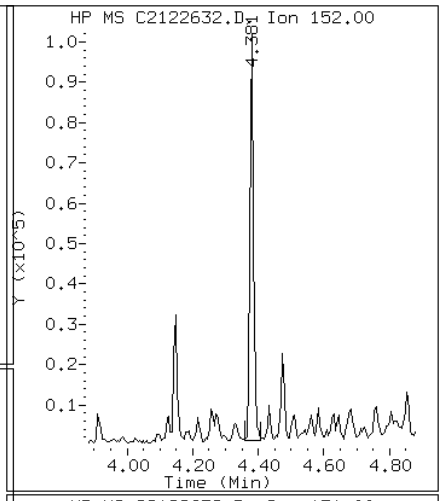
6 Acenaphthylene

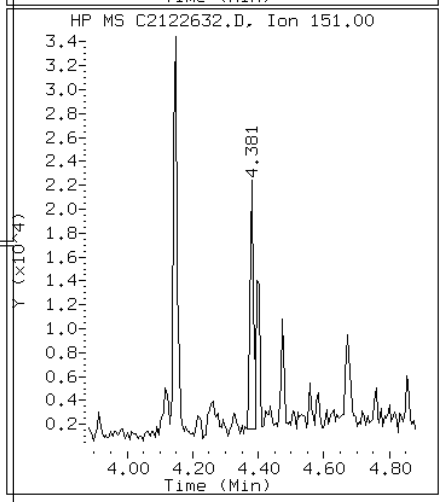












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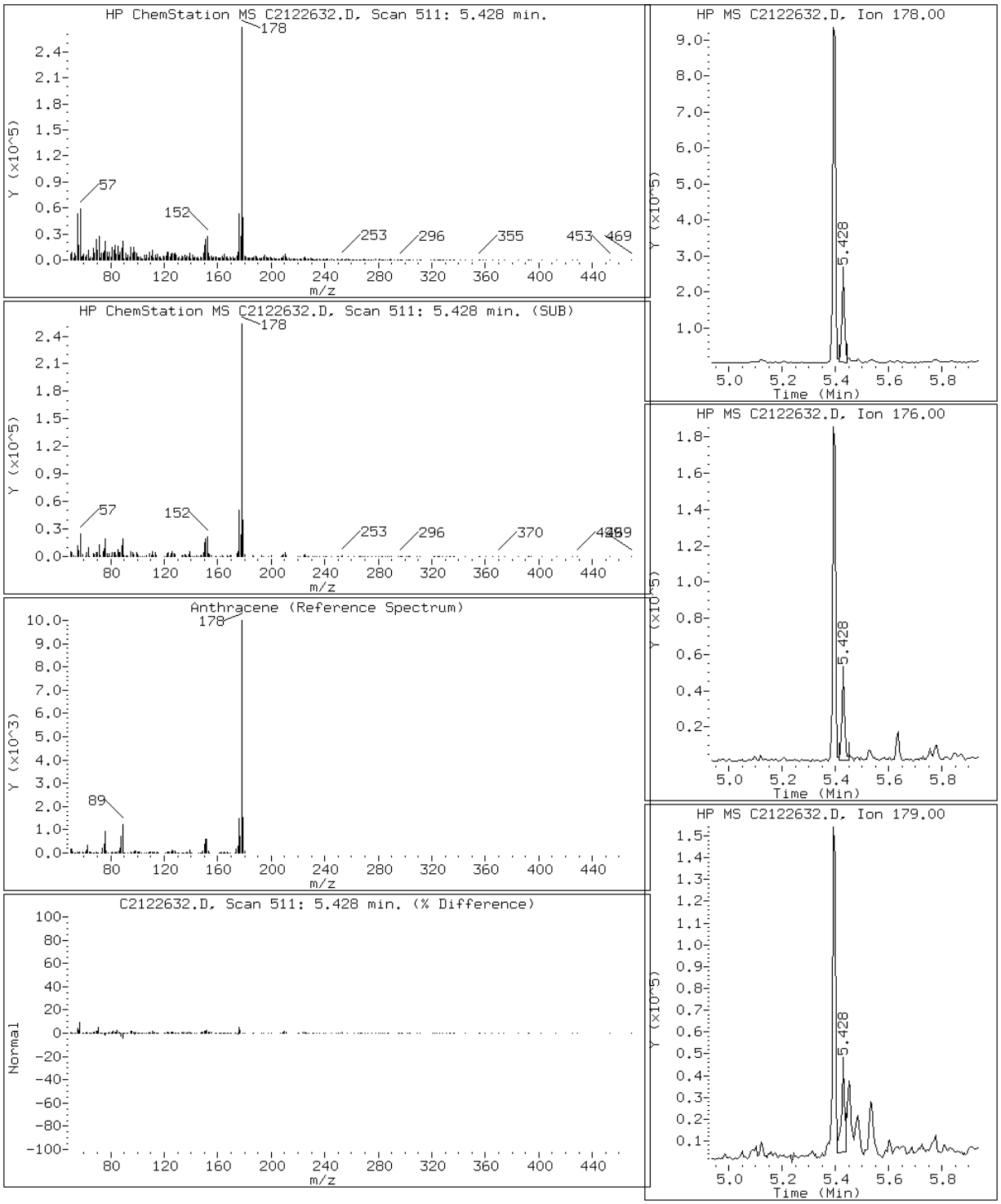
Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

11 Anthracene



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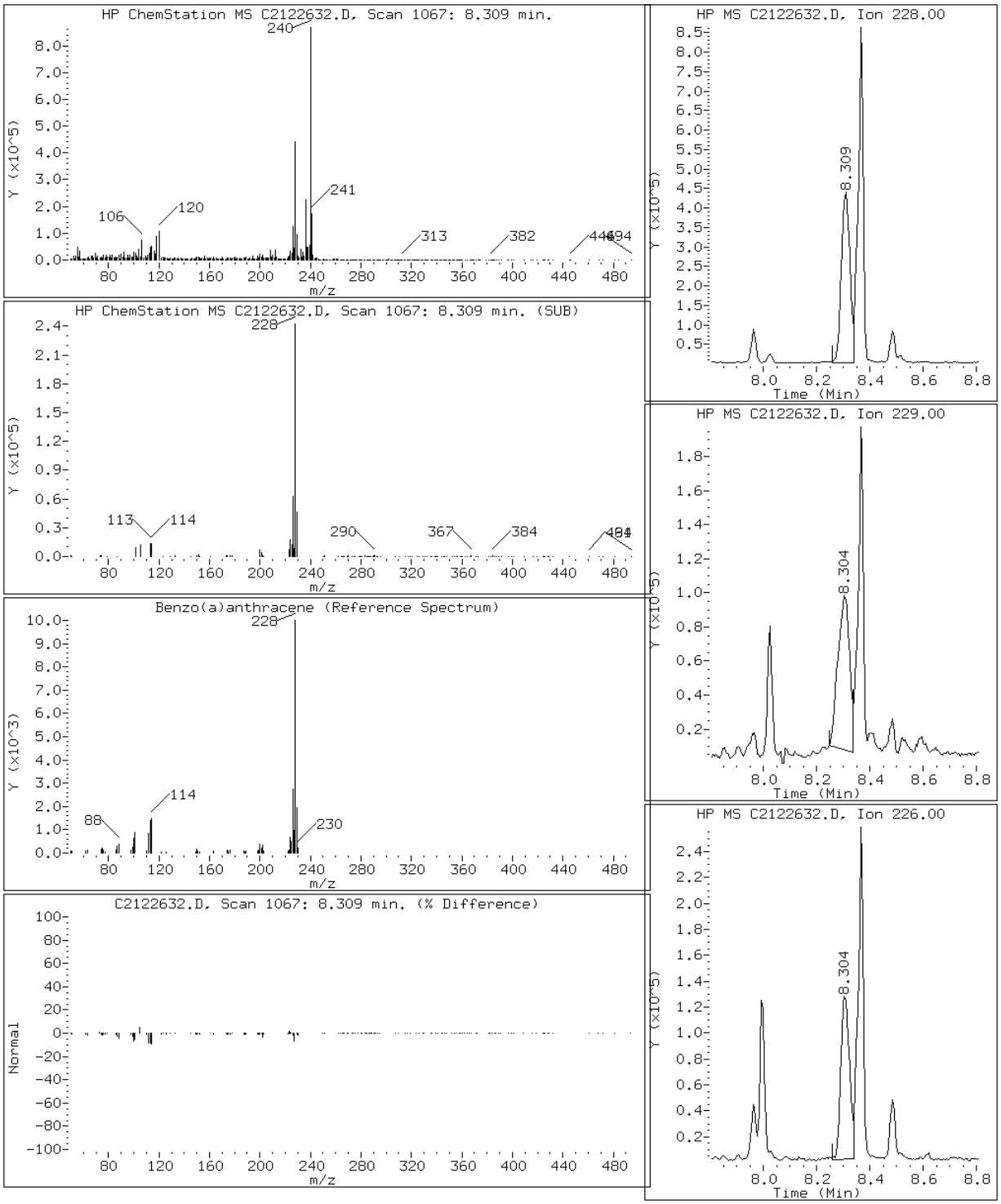
Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

16 Benzo(a)anthracene



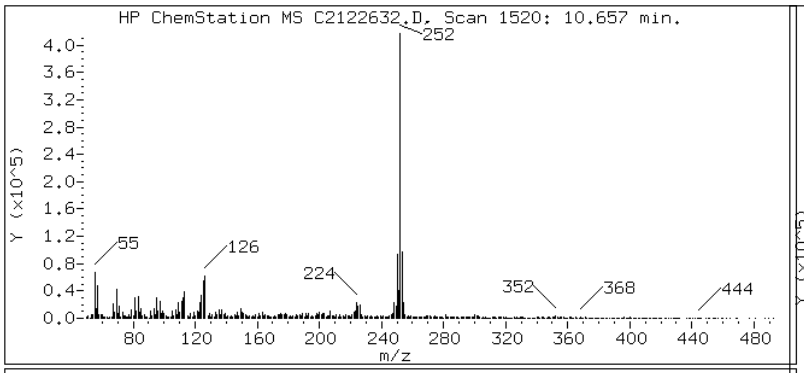
Data File: C2122632.D

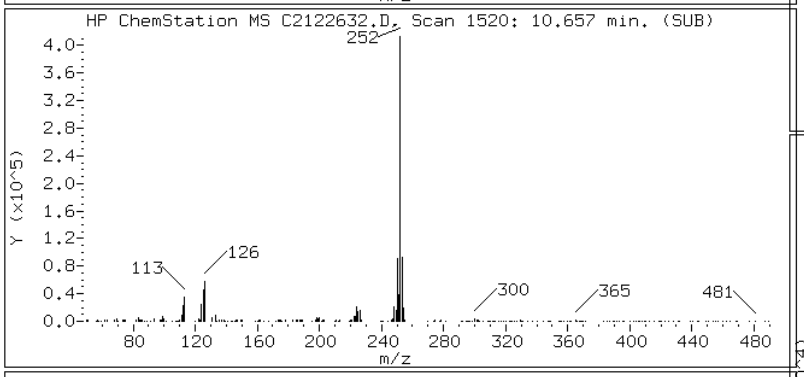
Date: 26-DEC-2012 22:53

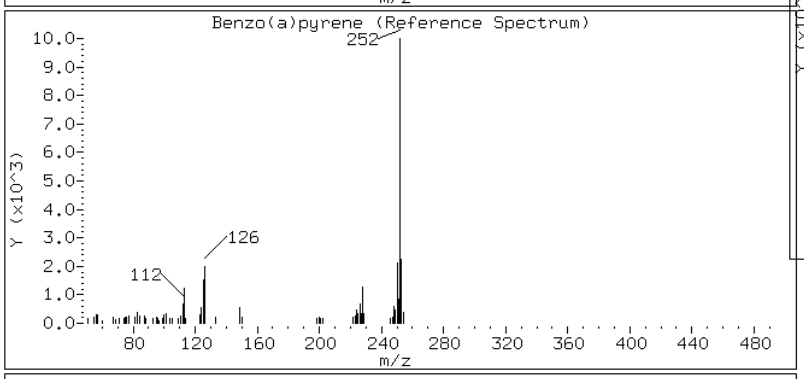
Client ID: CV0511C-CSD Instrument: TSMC5973.i

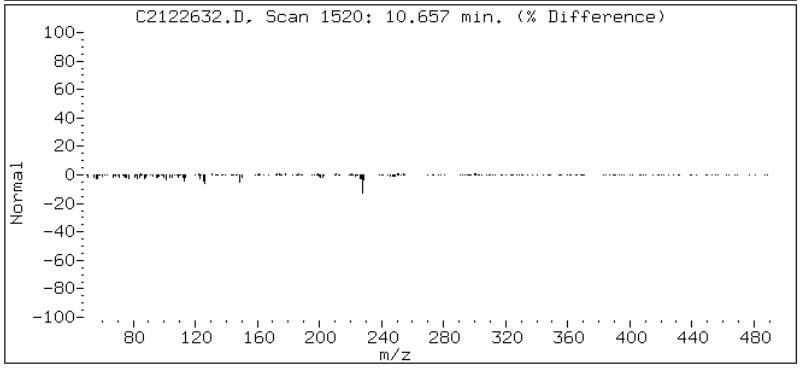
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

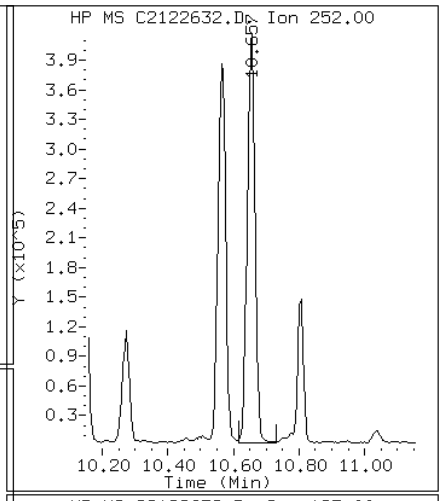
21 Benzo(a)pyrene

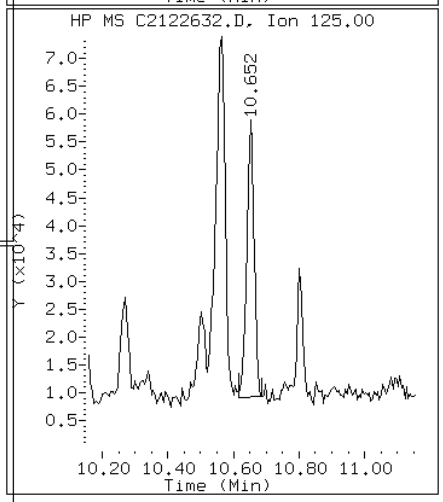












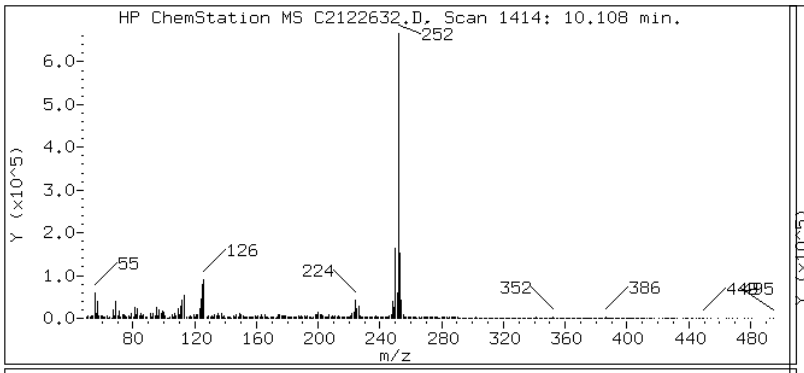
Data File: C2122632.D

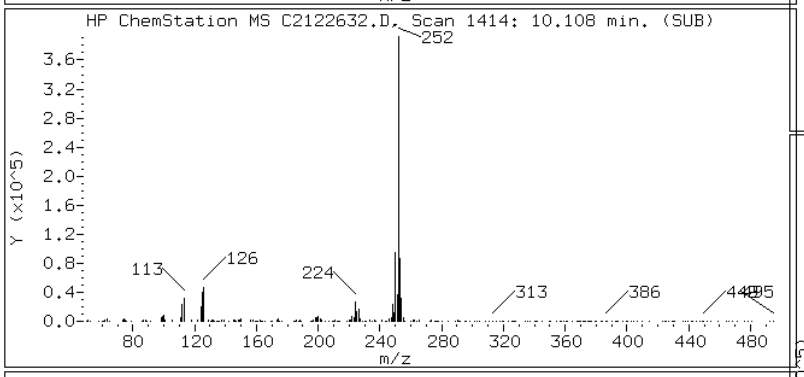
Date: 26-DEC-2012 22:53

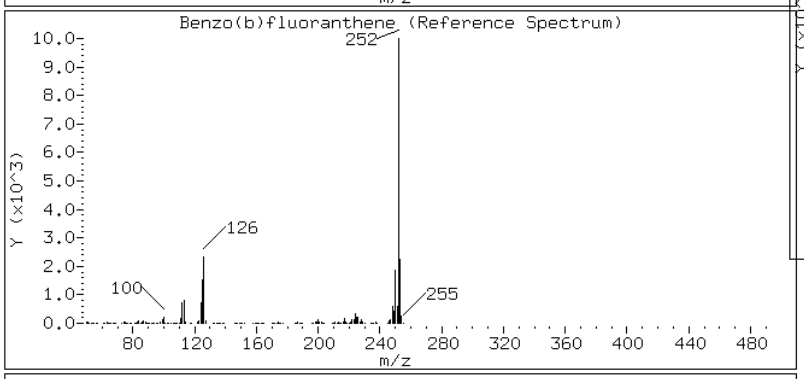
Client ID: CV0511C-CSD Instrument: TSMC5973.i

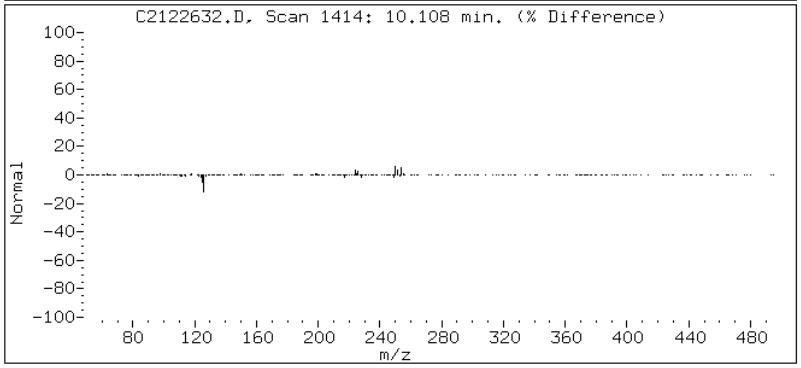
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

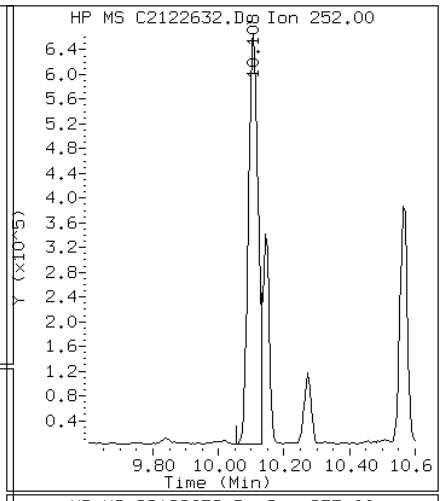
19 Benzo(b)fluoranthene

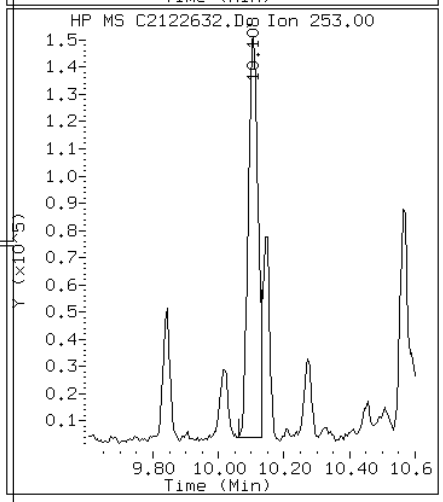












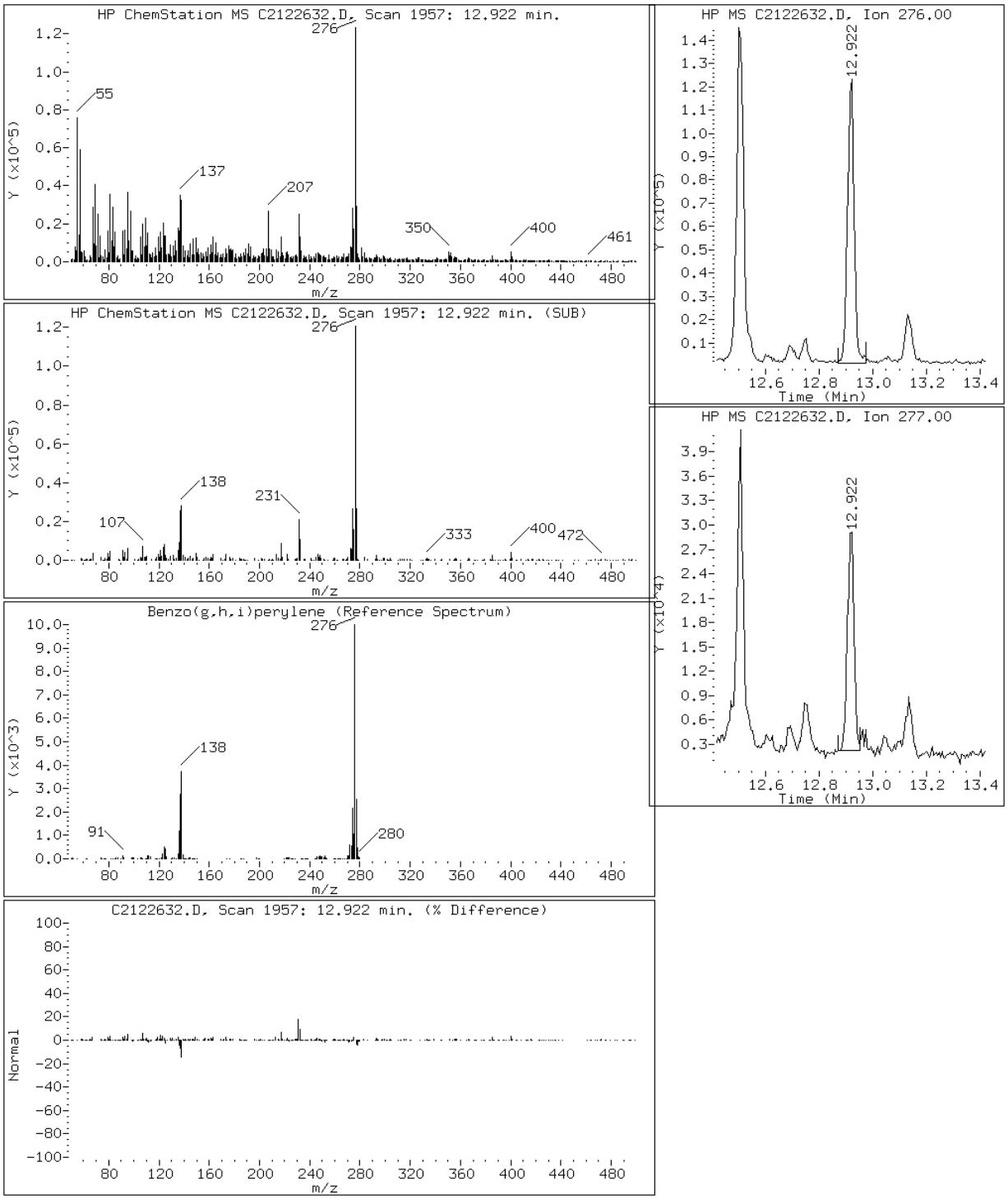
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

24 Benzo(g,h,i)perylene



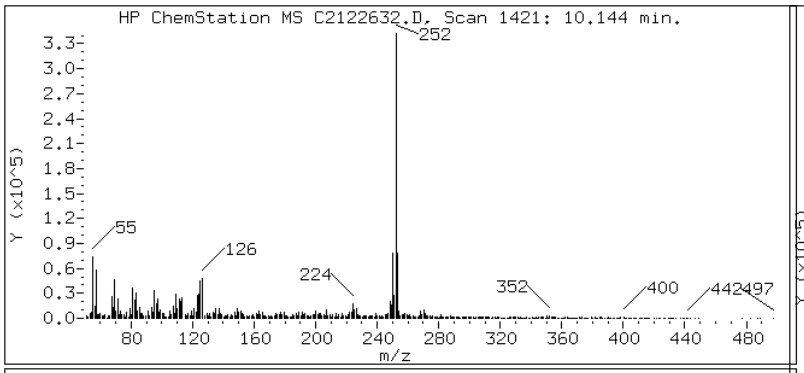
Data File: C2122632.D

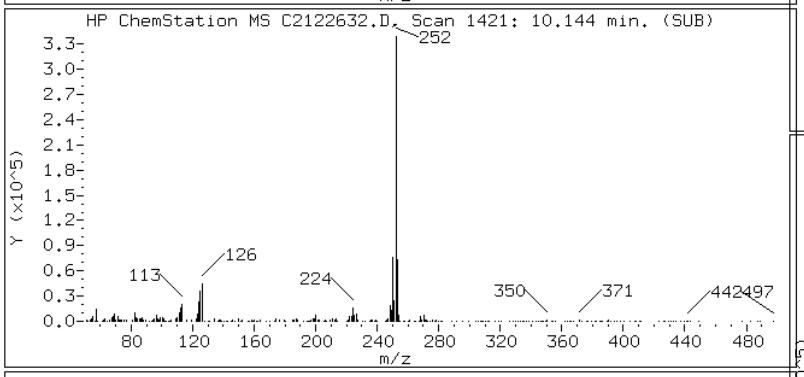
Date: 26-DEC-2012 22:53

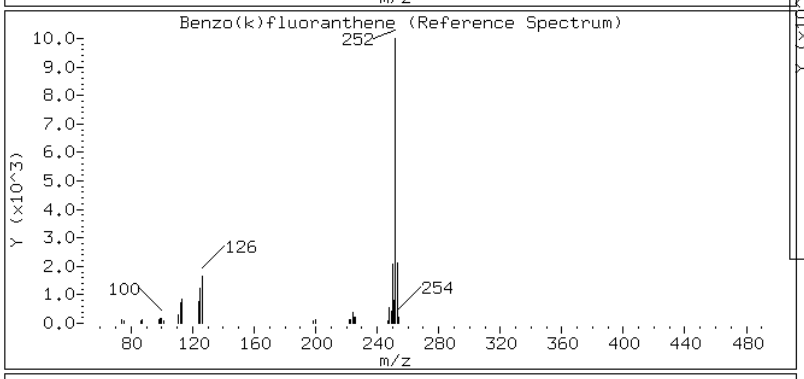
Client ID: CV0511C-CSD Instrument: TSMC5973.i

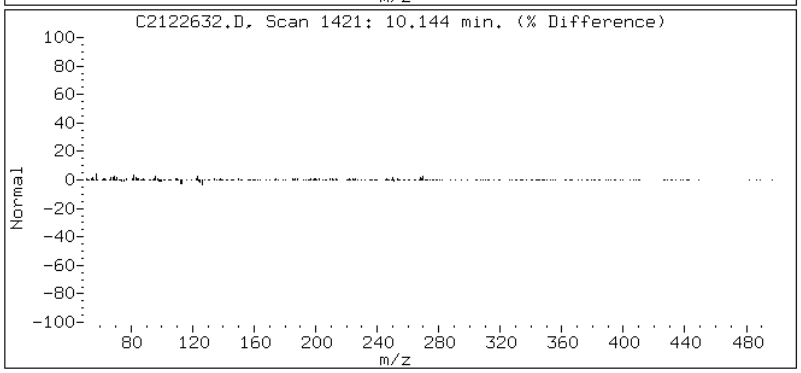
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

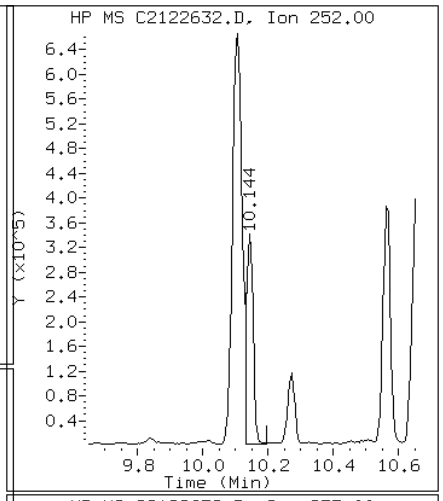
20 Benzo(k)fluoranthene

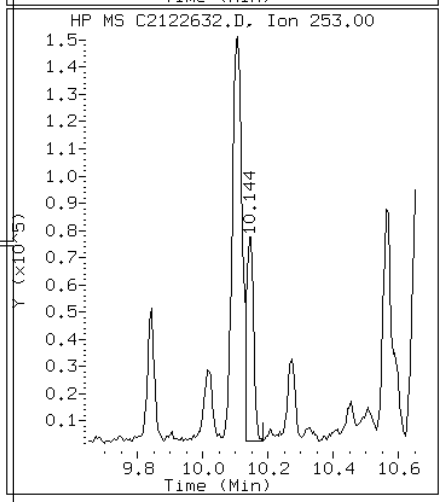












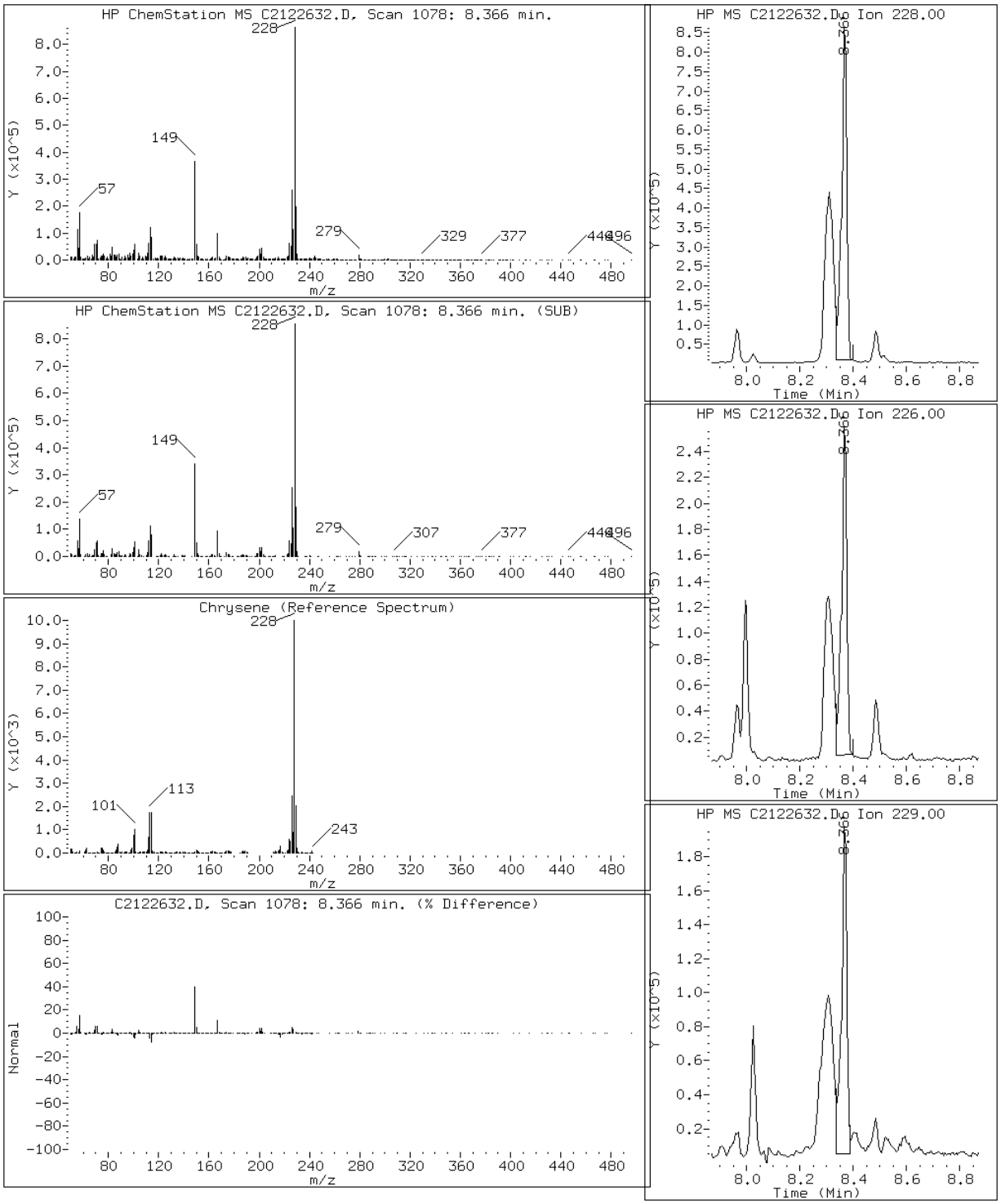
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

17 Chrysene



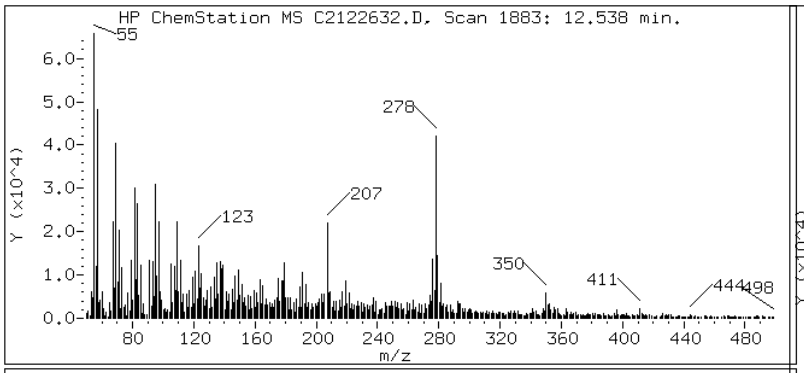
Data File: C2122632.D

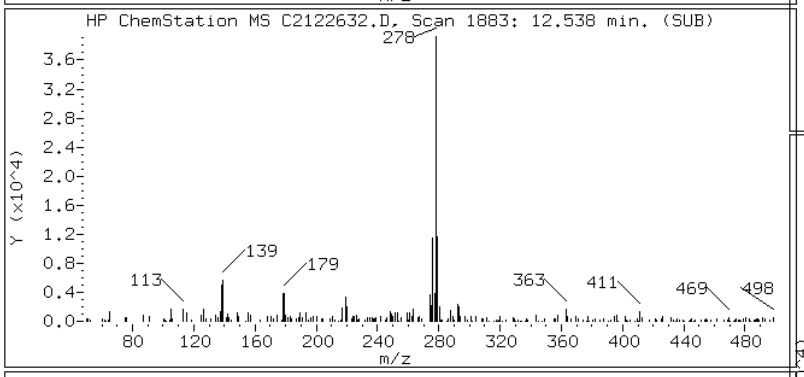
Date: 26-DEC-2012 22:53

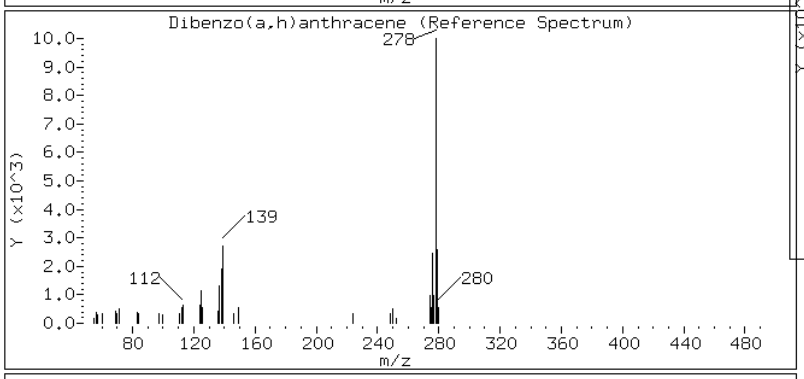
Client ID: CV0511C-CSD Instrument: TSMC5973.i

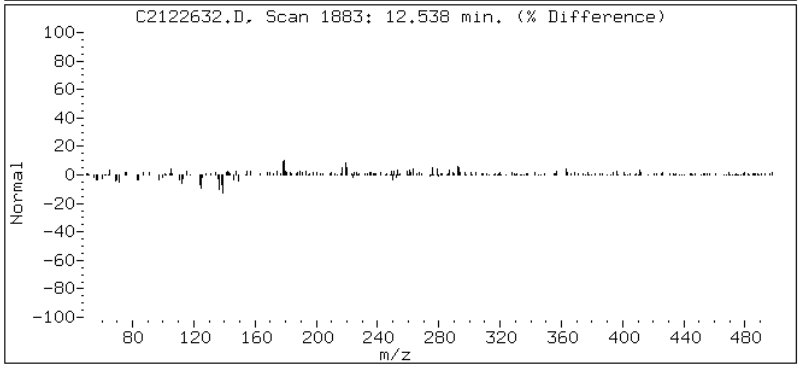
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

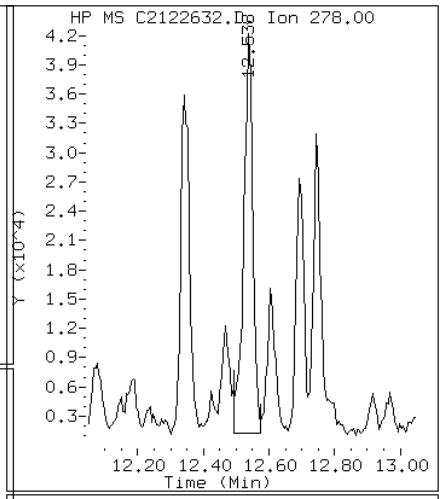
23 Dibenzo(a,h)anthracene

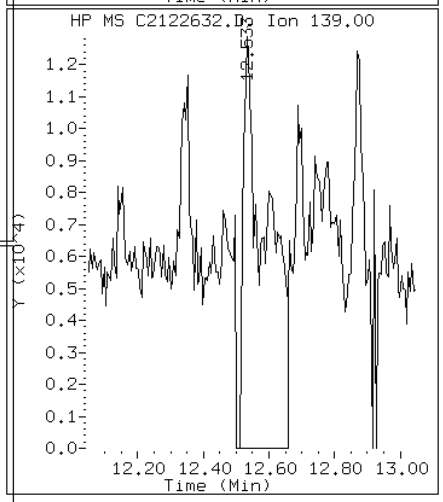












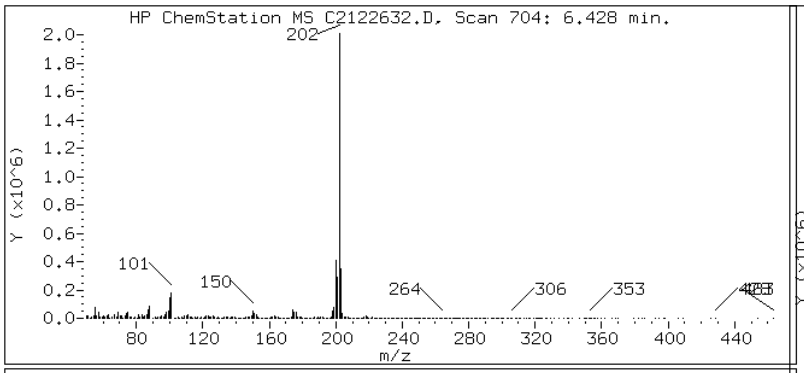
Data File: C2122632.D

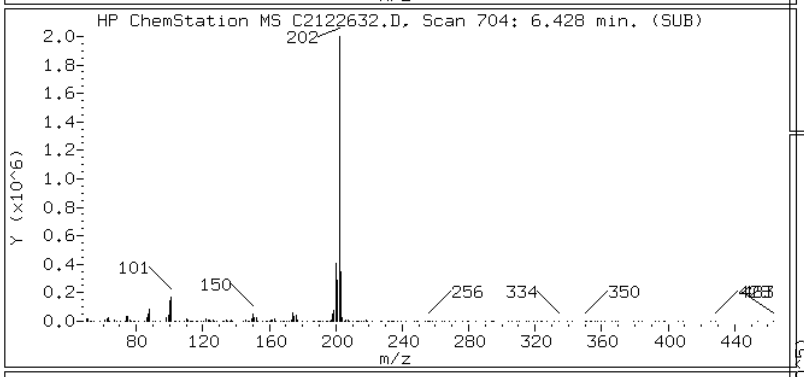
Date: 26-DEC-2012 22:53

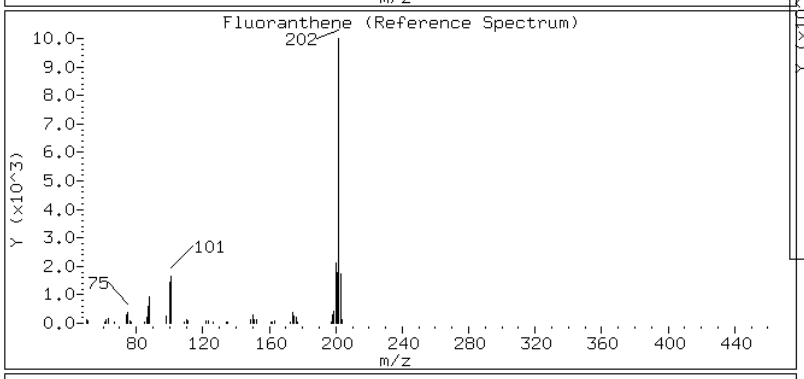
Client ID: CV0511C-CSD Instrument: TSMC5973.i

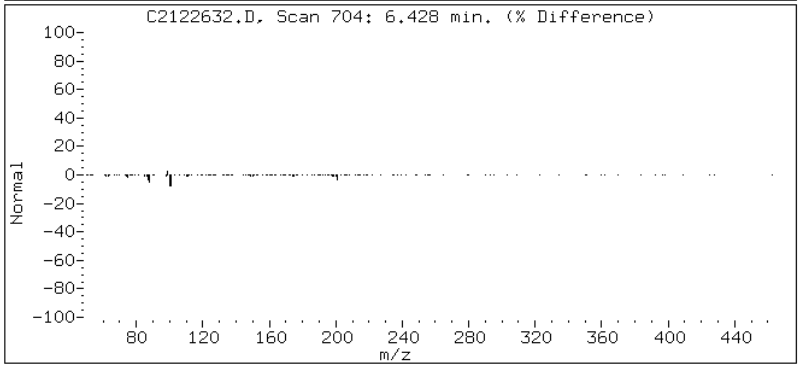
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

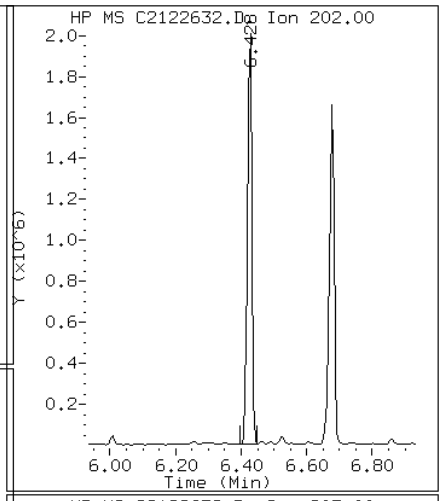
13 Fluoranthene

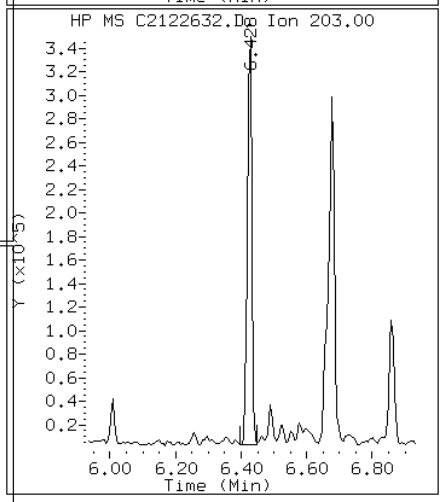












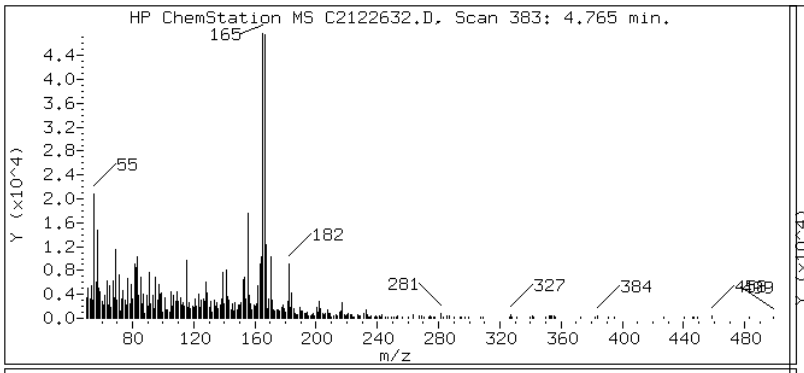
Data File: C2122632.D

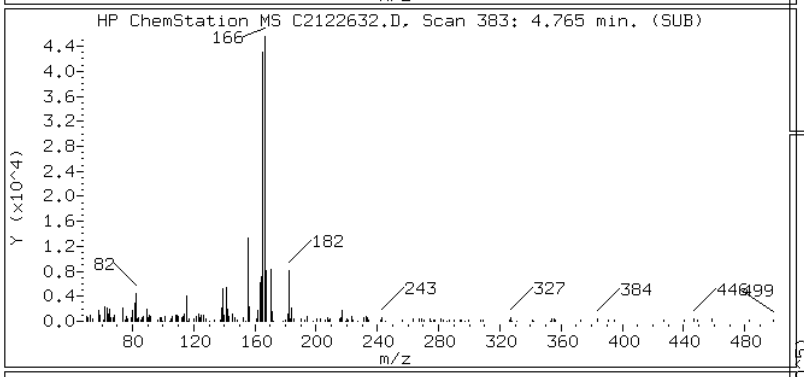
Date: 26-DEC-2012 22:53

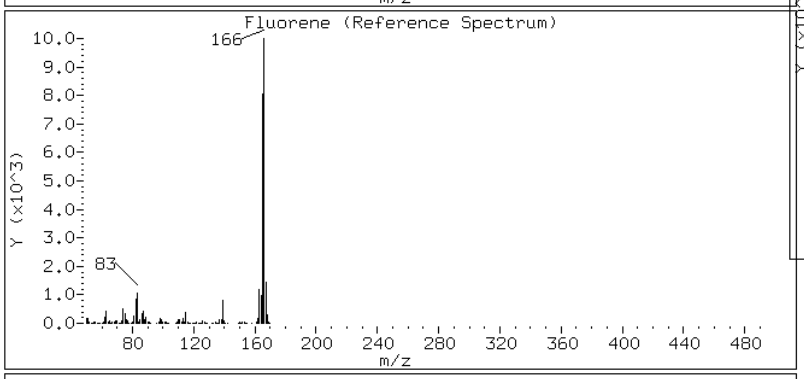
Client ID: CV0511C-CSD Instrument: TSMC5973.i

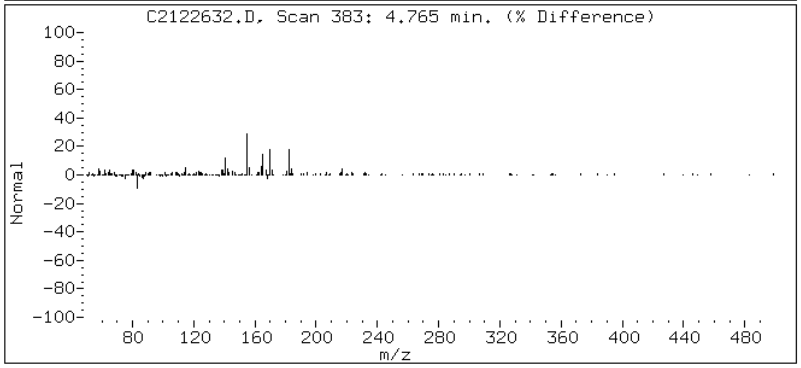
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

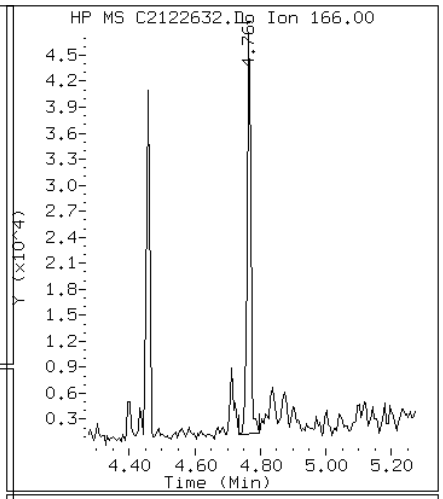
8 Fluorene

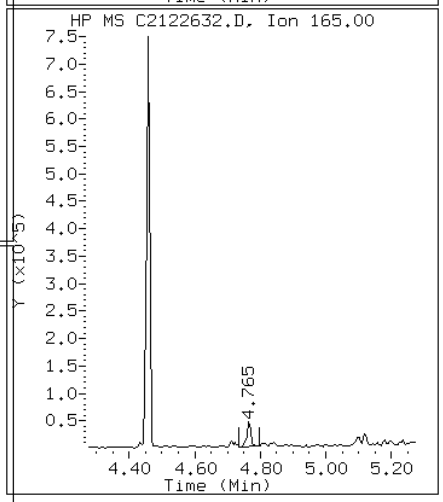












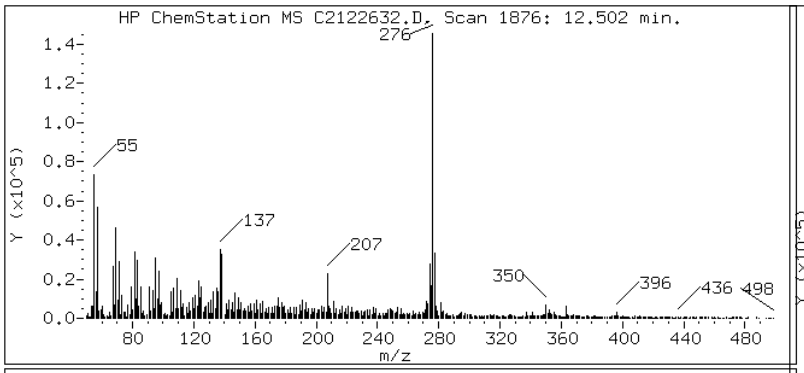
Data File: C2122632.D

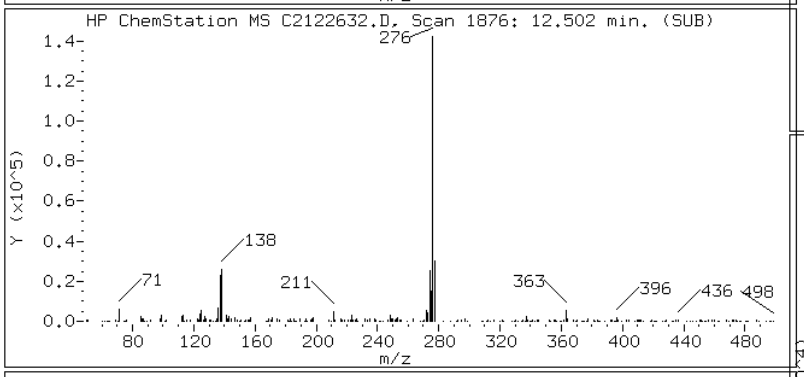
Date: 26-DEC-2012 22:53

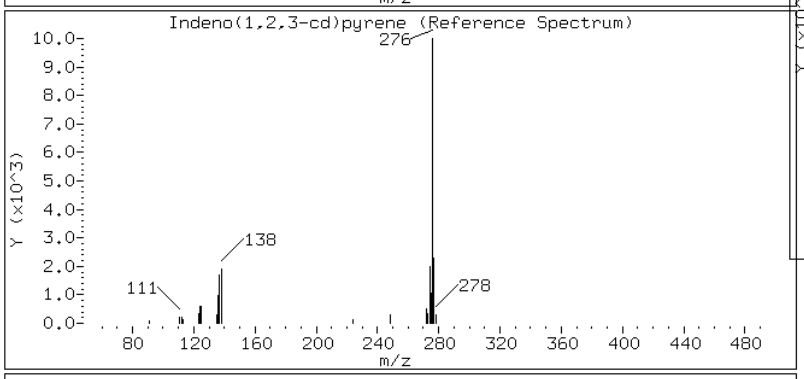
Client ID: CV0511C-CSD Instrument: TSMC5973.i

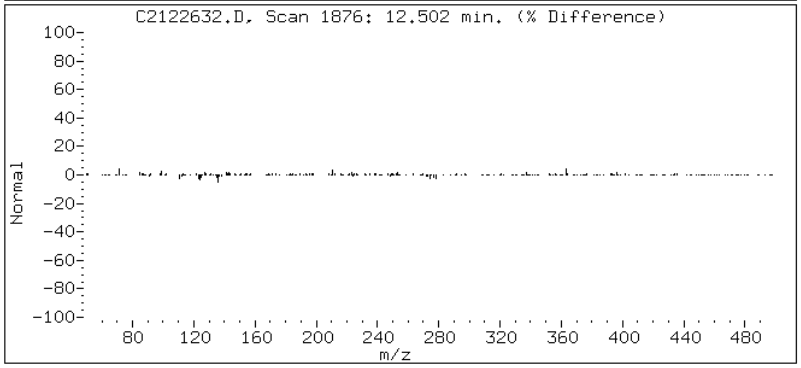
Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

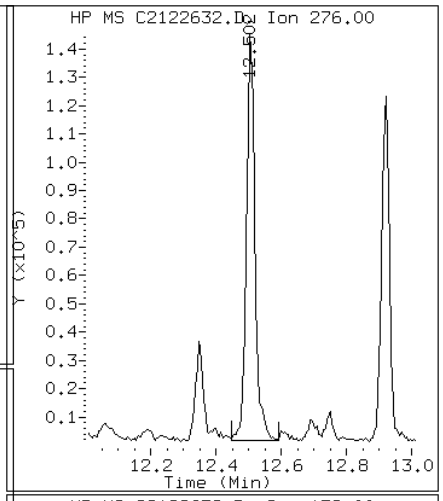
22 Indeno(1,2,3-cd)pyrene

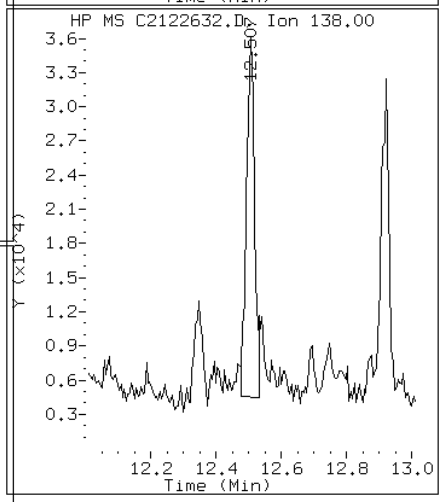












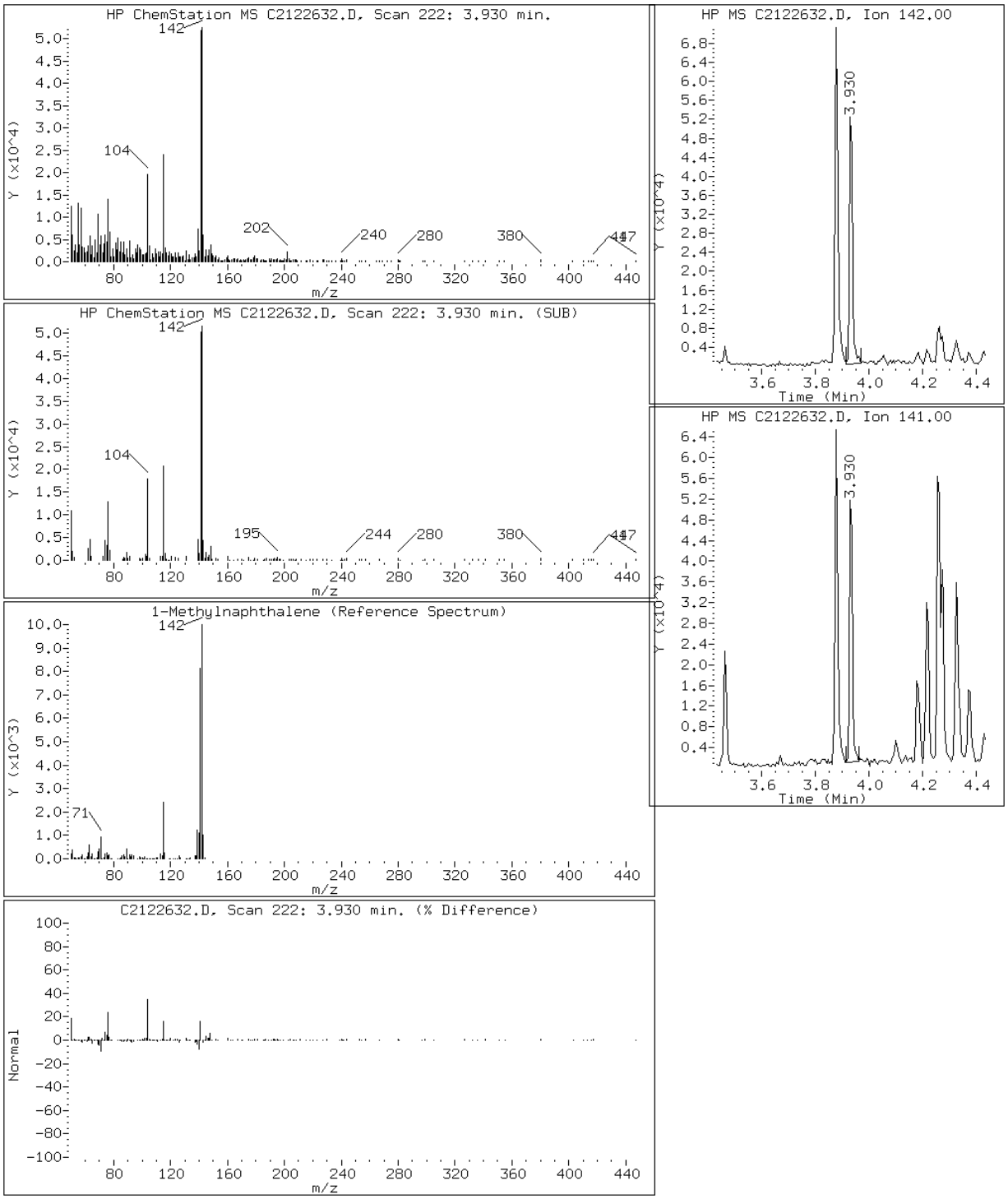
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

4 1-Methylnaphthalene



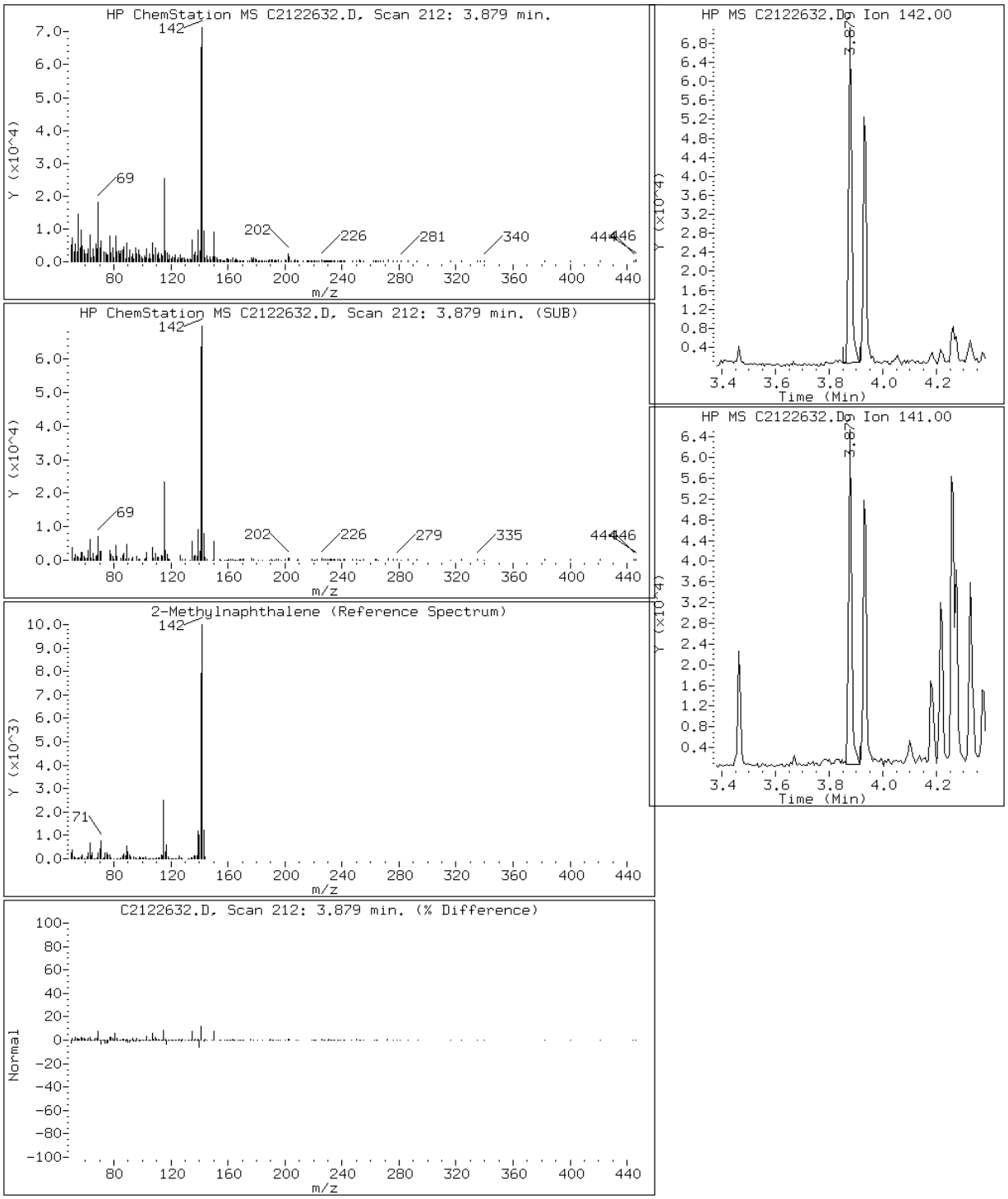
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

3 2-Methylnaphthalene



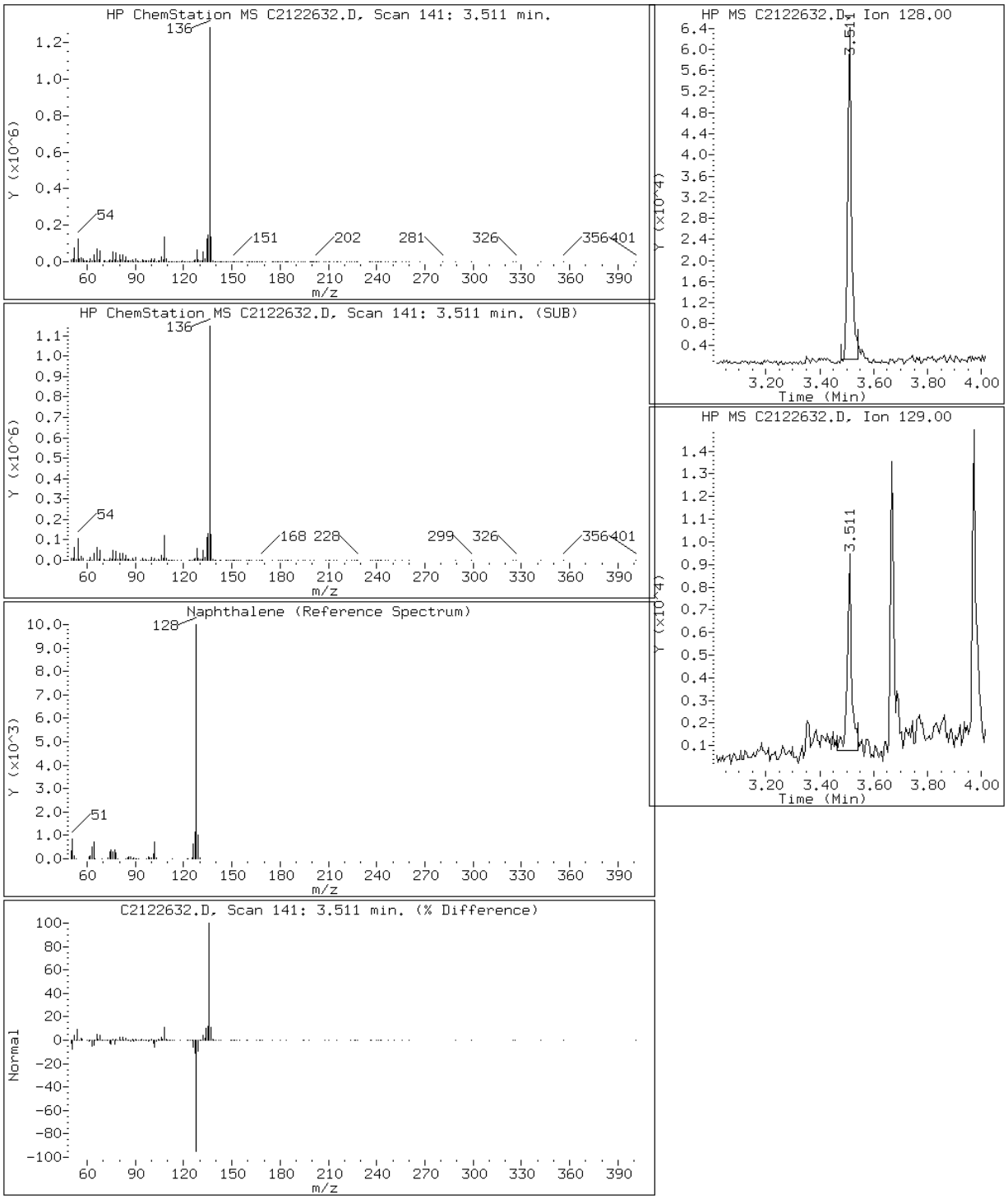
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

2 Naphthalene



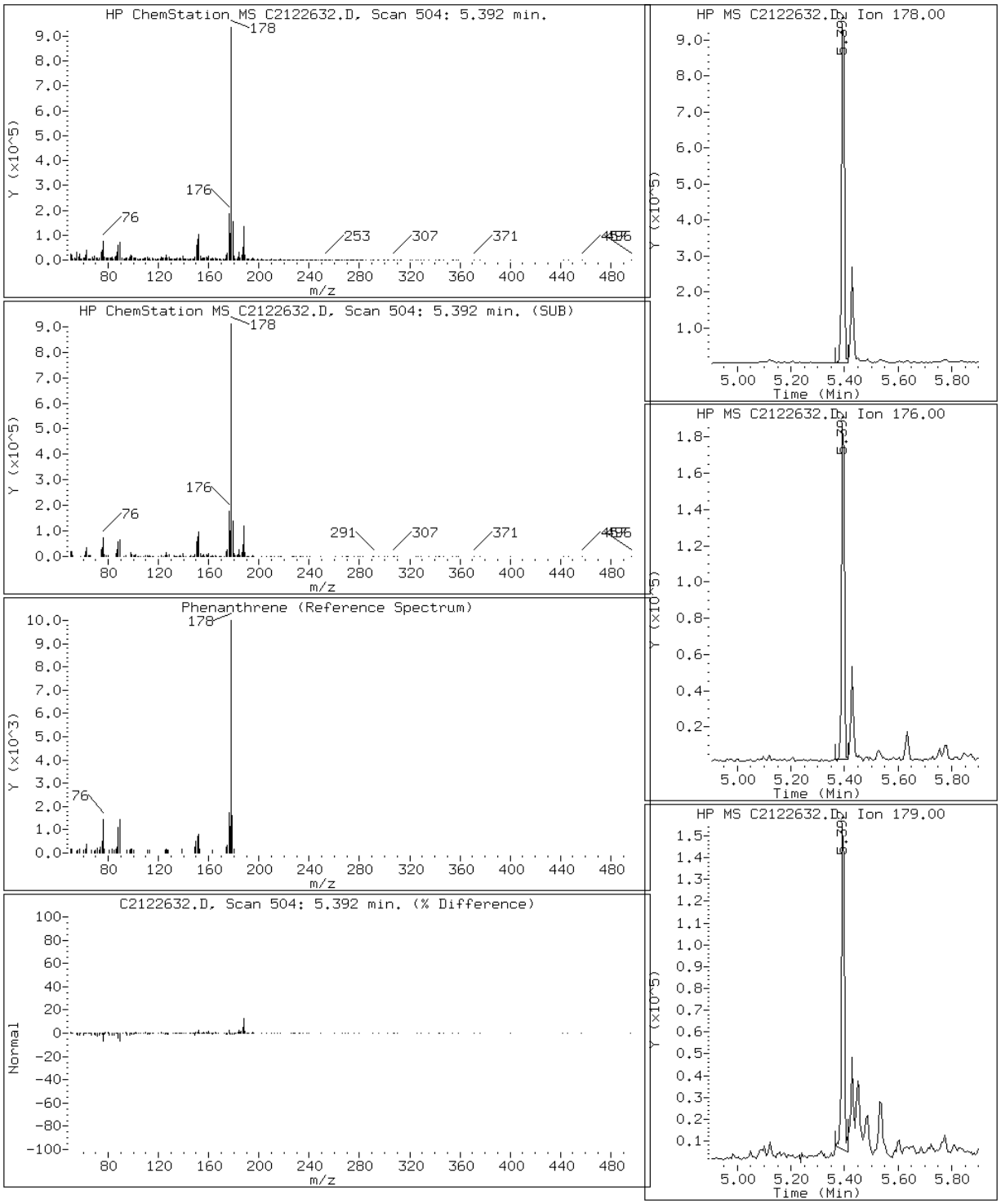
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

10 Phenanthrene



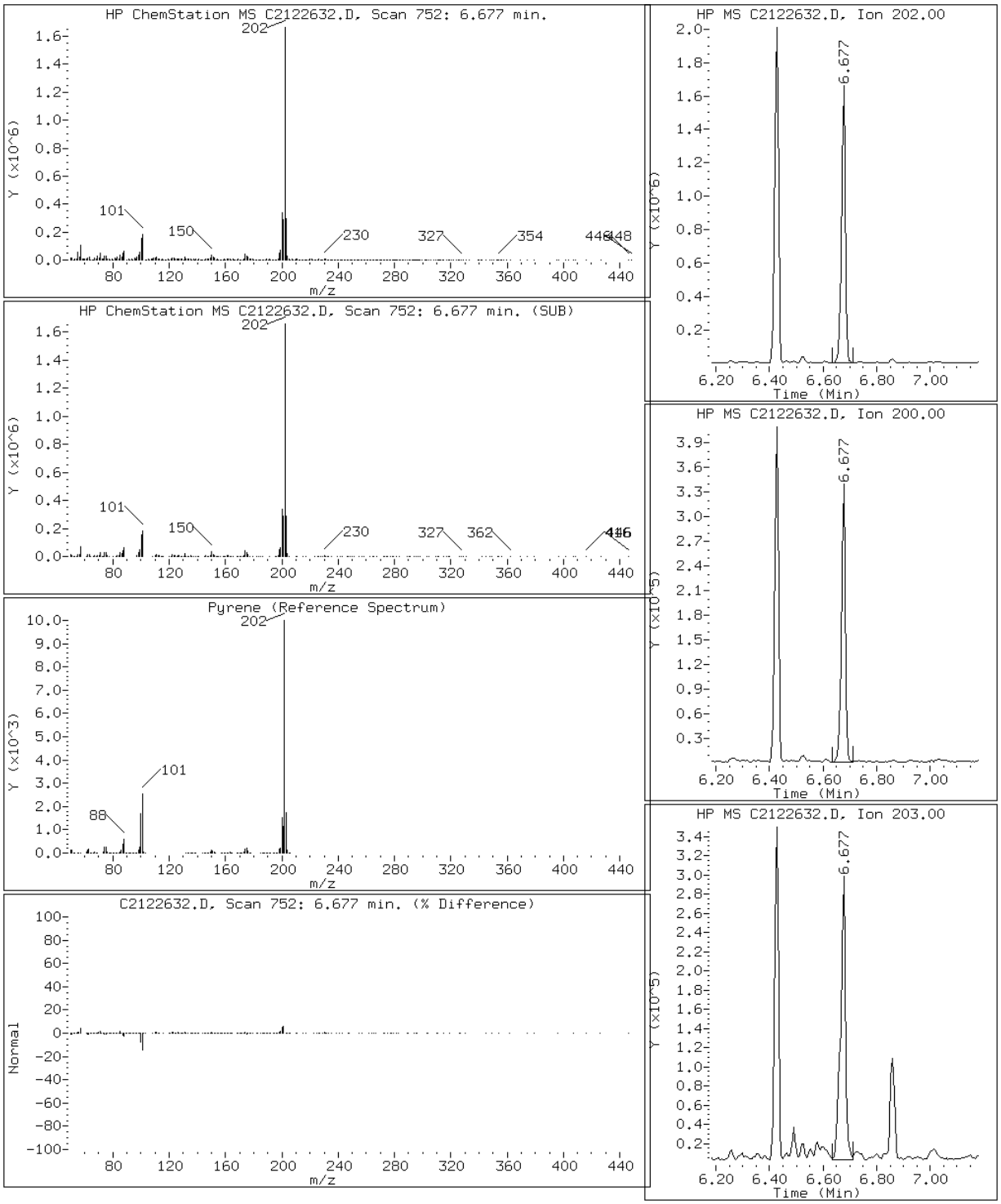
Data File: C2122632.D

Date: 26-DEC-2012 22:53

Client ID: CV0511C-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-35-A~98122~1~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122632.D
Inj. Date and Time: 26-DEC-2012 22:53
Instrument ID: TSMC5973.i
Client ID: CV0511C-CSD
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

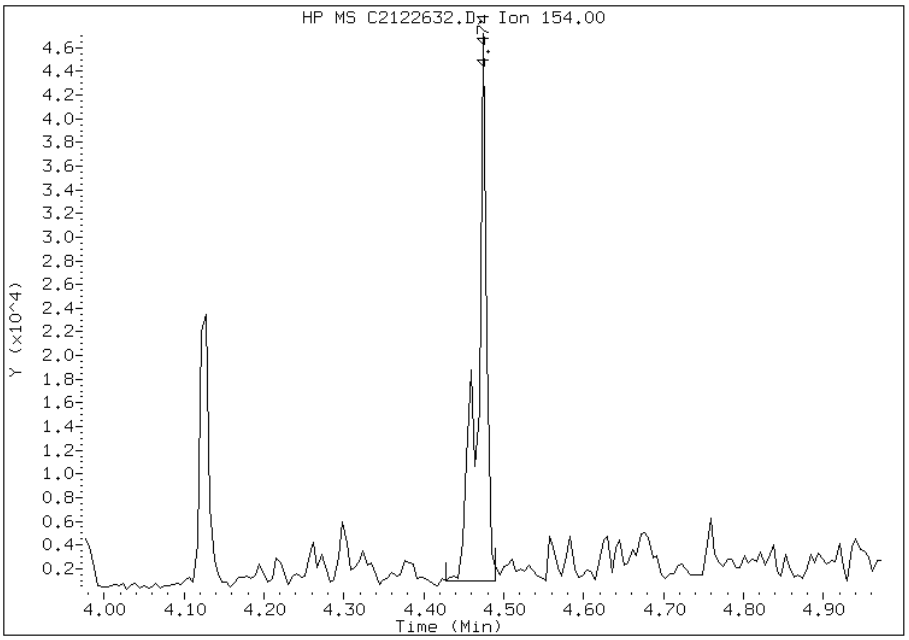
Processing Integration Results

RT: 4.47

Response: 39207

Amount: 0

Conc: 13



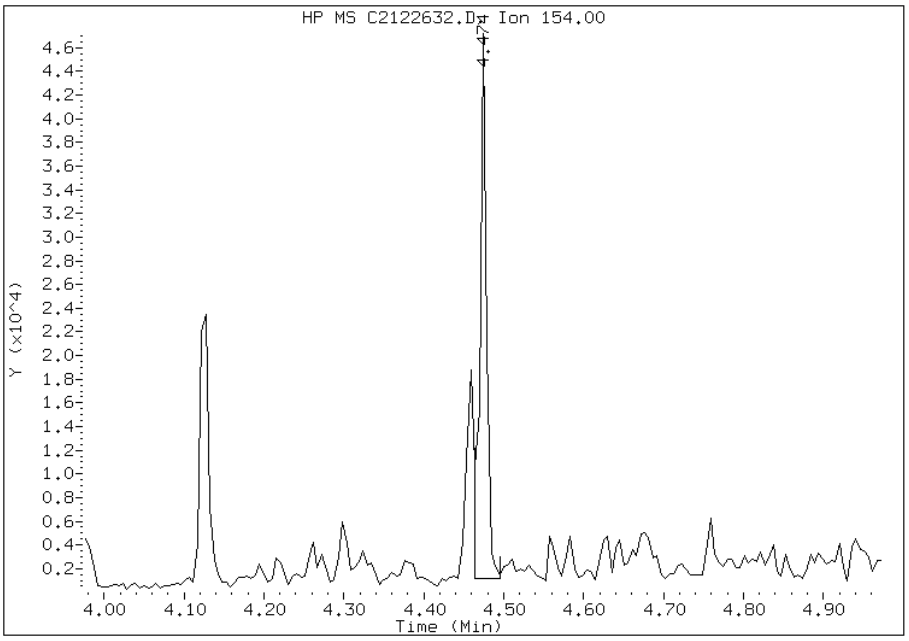
Manual Integration Results

RT: 4.47

Response: 28904

Amount: 0

Conc: 9



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: C2122632.D
Inj. Date and Time: 26-DEC-2012 22:53
Instrument ID: TSMC5973.i
Client ID: CV0511C-CSD
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

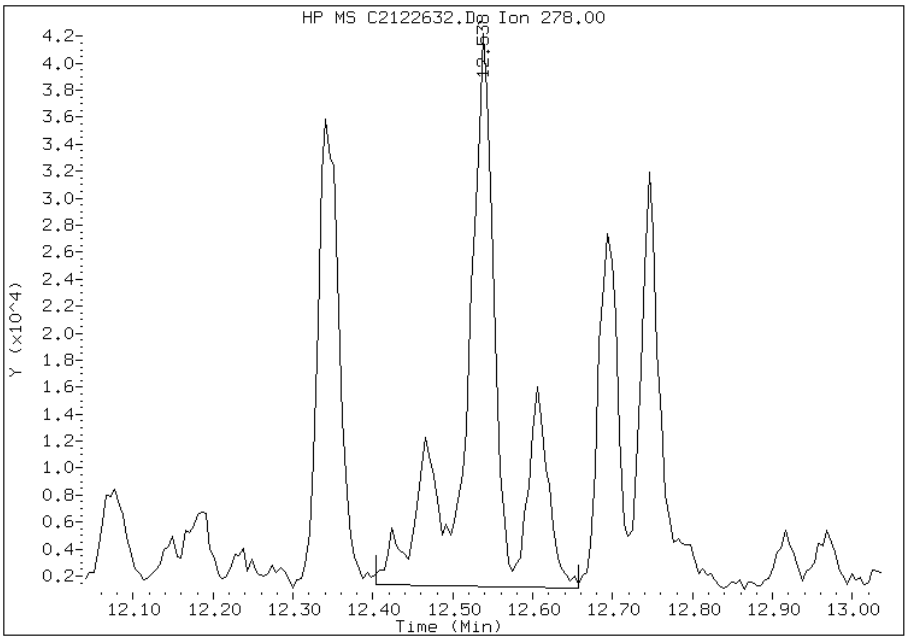
Processing Integration Results

RT: 12.54

Response: 131179

Amount: 1

Conc: 32



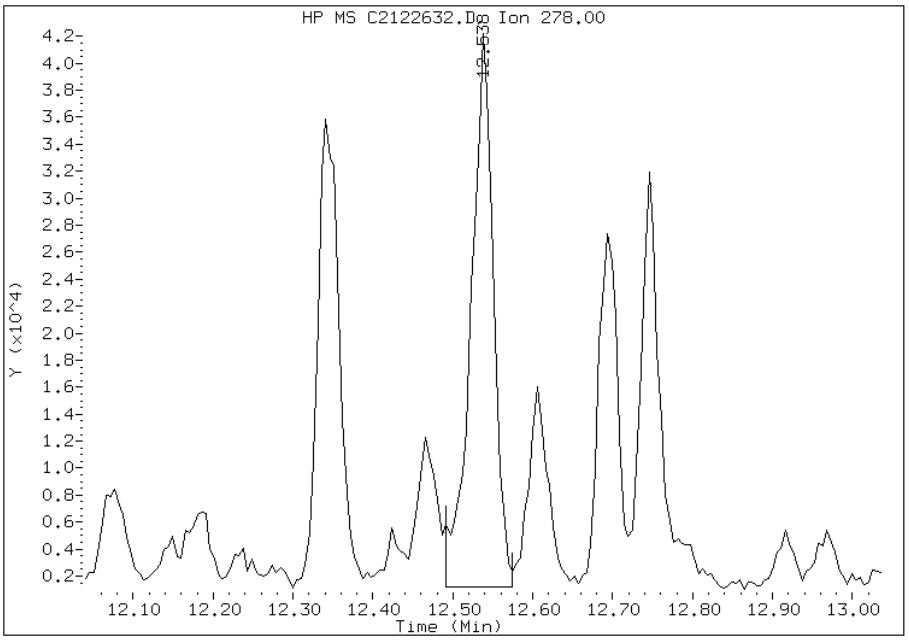
Manual Integration Results

RT: 12.54

Response: 81708

Amount: 1

Conc: 20



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:34
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511D-CS | Lab Sample ID: 680-85785-36

Matrix: Solid | Lab File ID: C2122711.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:20

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.09(g) | Date Analyzed: 12/27/2012 10:19

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 4

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

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

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120		37	3.2
208-96-8	Acenaphthylene	57		37	2.9
120-12-7	Anthracene	300		37	3.7
56-55-3	Benzo[a]anthracene	1100		37	3.4
50-32-8	Benzo[a]pyrene	1200		37	3.8
205-99-2	Benzo[b]fluoranthene	1700		37	5.2
191-24-2	Benzo[g,h,i]perylene	960		37	6.1
207-08-9	Benzo[k]fluoranthene	610		37	3.5
218-01-9	Chrysene	1300		37	4.1
53-70-3	Dibenz(a,h)anthracene	250		37	3.6
206-44-0	Fluoranthene	2200		37	3.3
86-73-7	Fluorene	100		37	2.9
193-39-5	Indeno[1,2,3-cd]pyrene	990		37	6.1
90-12-0	1-Methylnaphthalene	37		37	2.9
91-57-6	2-Methylnaphthalene	43		37	2.9
91-20-3	Naphthalene	57		37	2.9
85-01-8	Phenanthrene	1300		37	2.4
129-00-0	Pyrene	1700		37	2.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	91		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122711.D
Lab Smp Id: 680-85785-A-36-A Client Smp ID: CV0511D-CS
Inj Date : 27-DEC-2012 10:19
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-36-A~98122~4~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.090	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.282	3.282	(0.942)	33841	0.54835	73	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5735406	40.0000		
2 Naphthalene	128	3.500	3.500	(1.004)	43276	0.30876	41	
3 2-Methylnaphthalene	142	3.863	3.863	(1.109)	24596	0.23123	31	
4 1-Methylnaphthalene	142	3.920	3.920	(1.125)	20703	0.19842	26(a)	
* 5 Acenaphthene-d10	164	4.438	4.443	(1.000)	3250827	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.982)	54014	0.30921	41	
7 Acenaphthene	154	4.459	4.459	(1.005)	57773	0.63215	84(M)	BAS
8 Fluorene	166	4.749	4.754	(1.070)	66194	0.54256	72	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5298404	40.0000		
10 Phenanthrene	178	5.371	5.376	(1.003)	1062844	7.20876	960	
11 Anthracene	178	5.407	5.412	(1.010)	260132	1.62742	220	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	89287	0.91098	120	
13 Fluoranthene	202	6.397	6.402	(1.194)	2405833	12.1747	1600	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	5672302	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2012869	9.47189	1200	
16 Benzo(a)anthracene	228	8.267	8.267	(0.997)	1158218	5.96501	790	
17 Chrysene	228	8.324	8.330	(1.004)	1144186	6.81474	900	
* 18 Perylene-d12	264	10.734	10.734	(1.000)	6708528	40.0000		
19 Benzo(b)fluoranthene	252	10.061	10.061	(0.937)	2013625	9.42232	1200	
20 Benzo(k)fluoranthene	252	10.097	10.107	(0.941)	687655	3.31285	440	
21 Benzo(a)pyrene	252	10.610	10.610	(0.988)	1275796	6.73217	890	
22 Indeno(1,2,3-cd)pyrene	276	12.460	12.460	(1.161)	1084924	5.35494	710	
23 Dibenzo(a,h)anthracene	278	12.486	12.501	(1.163)	263981	1.34868	180	
24 Benzo(g,h,i)perylene	276	12.864	12.869	(1.198)	1039175	5.22771	690	

QC Flag Legend

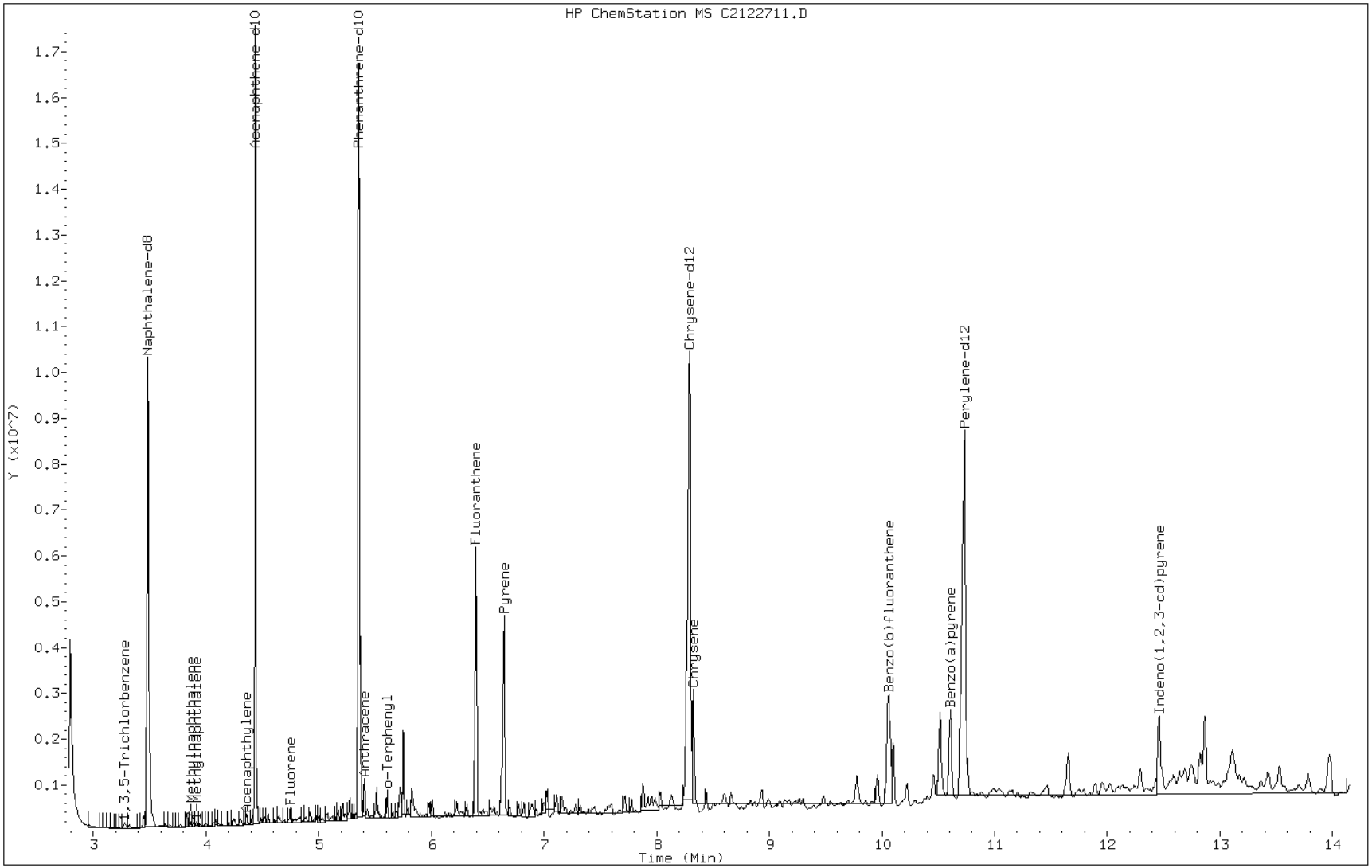
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW



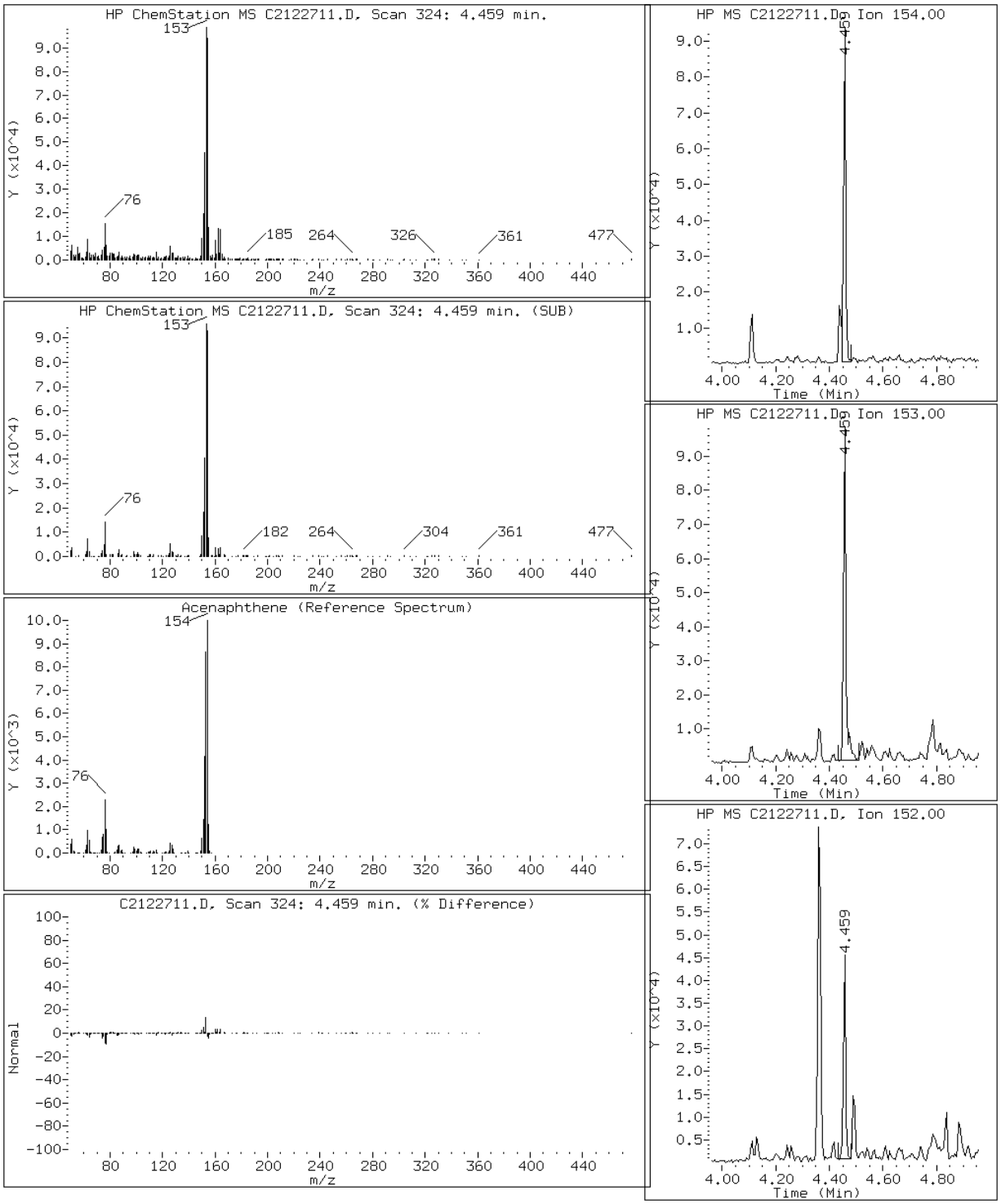
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

7 Acenaphthene



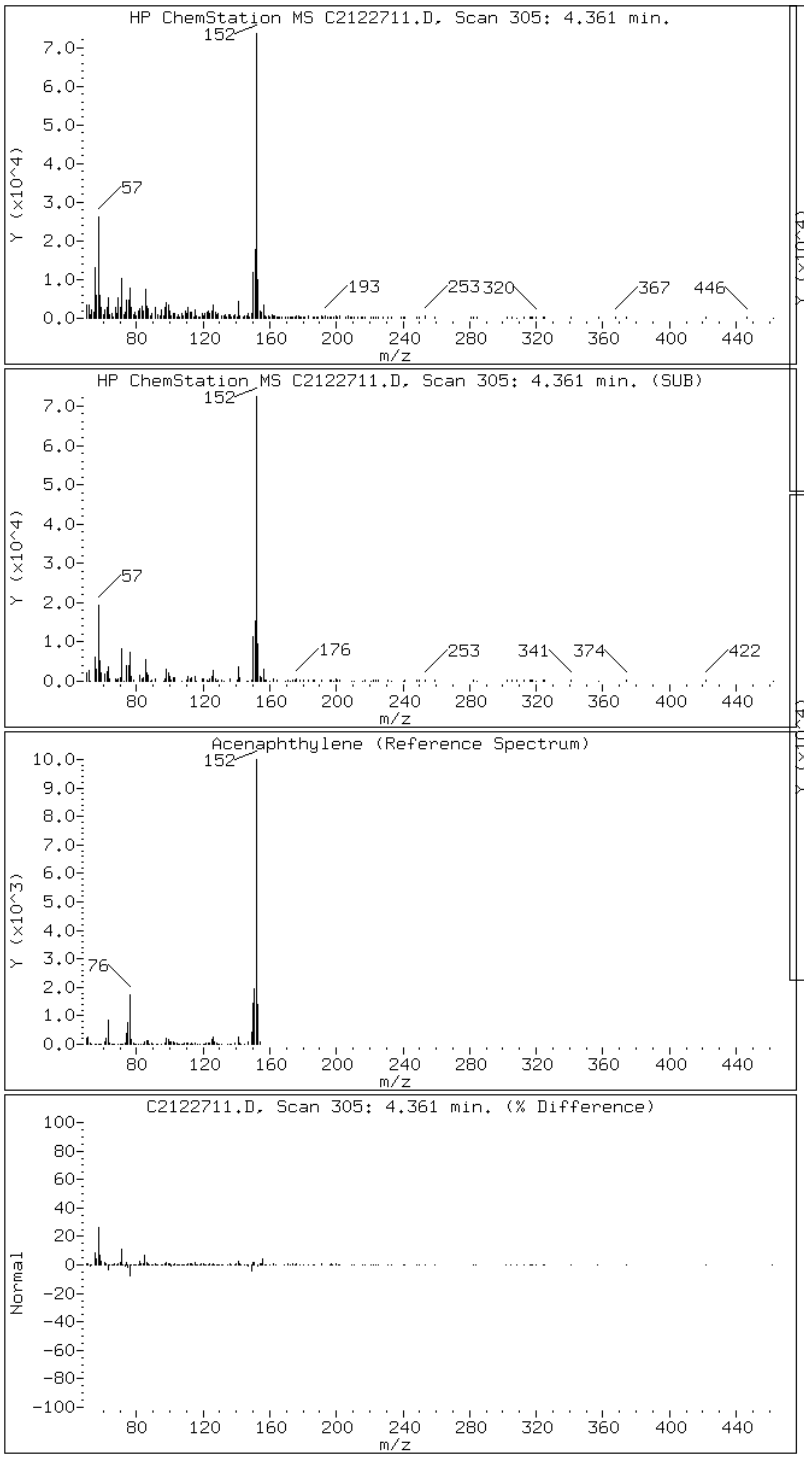
Data File: C2122711.D

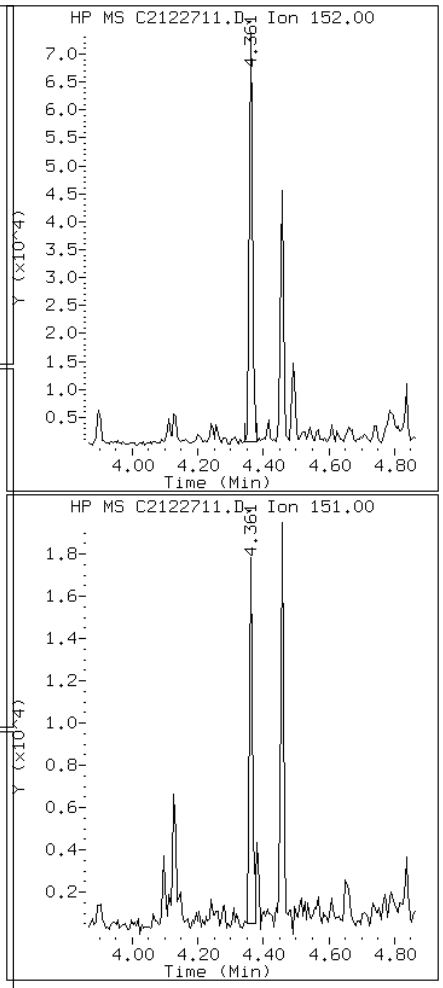
Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

6 Acenaphthylene





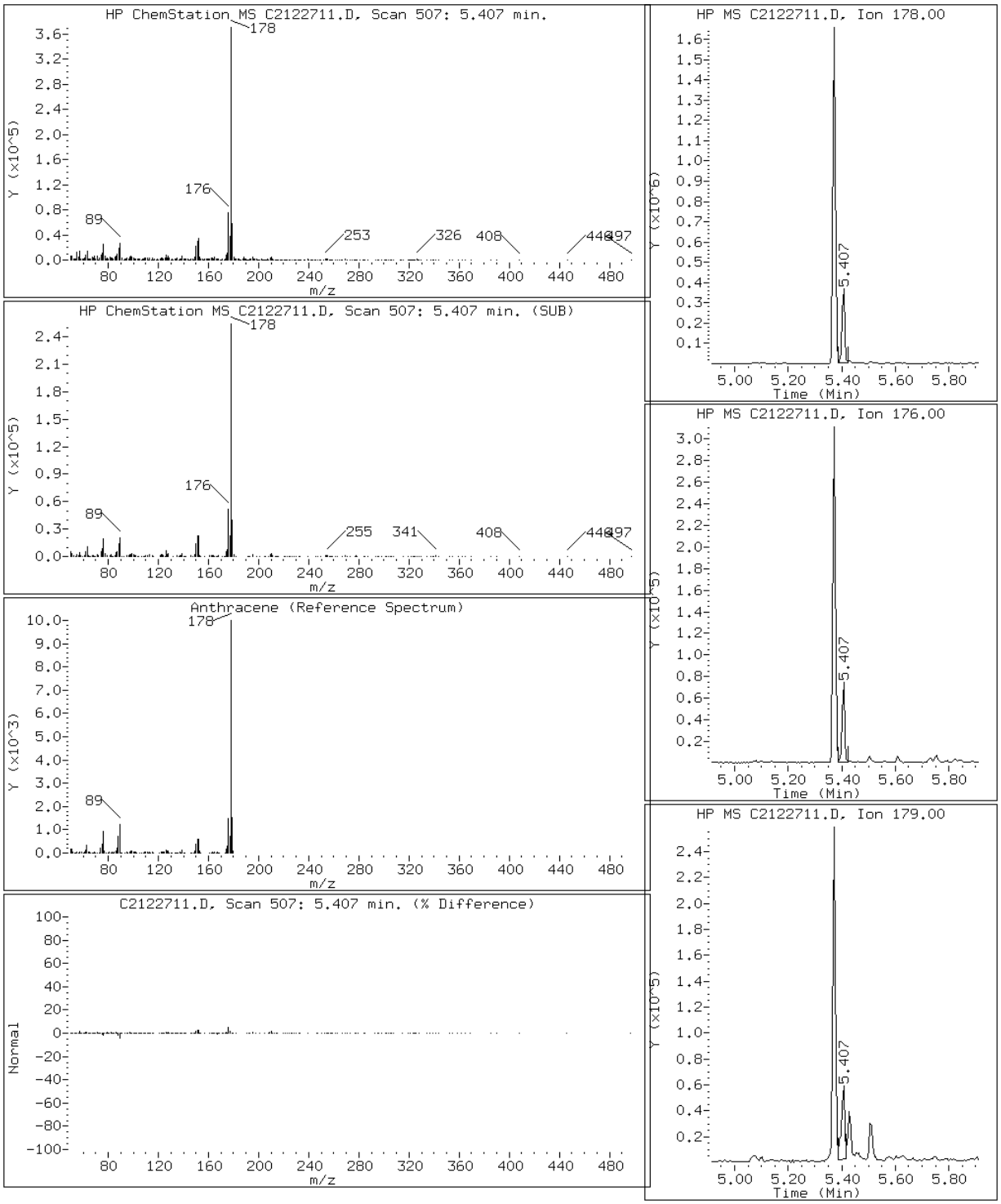
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

11 Anthracene



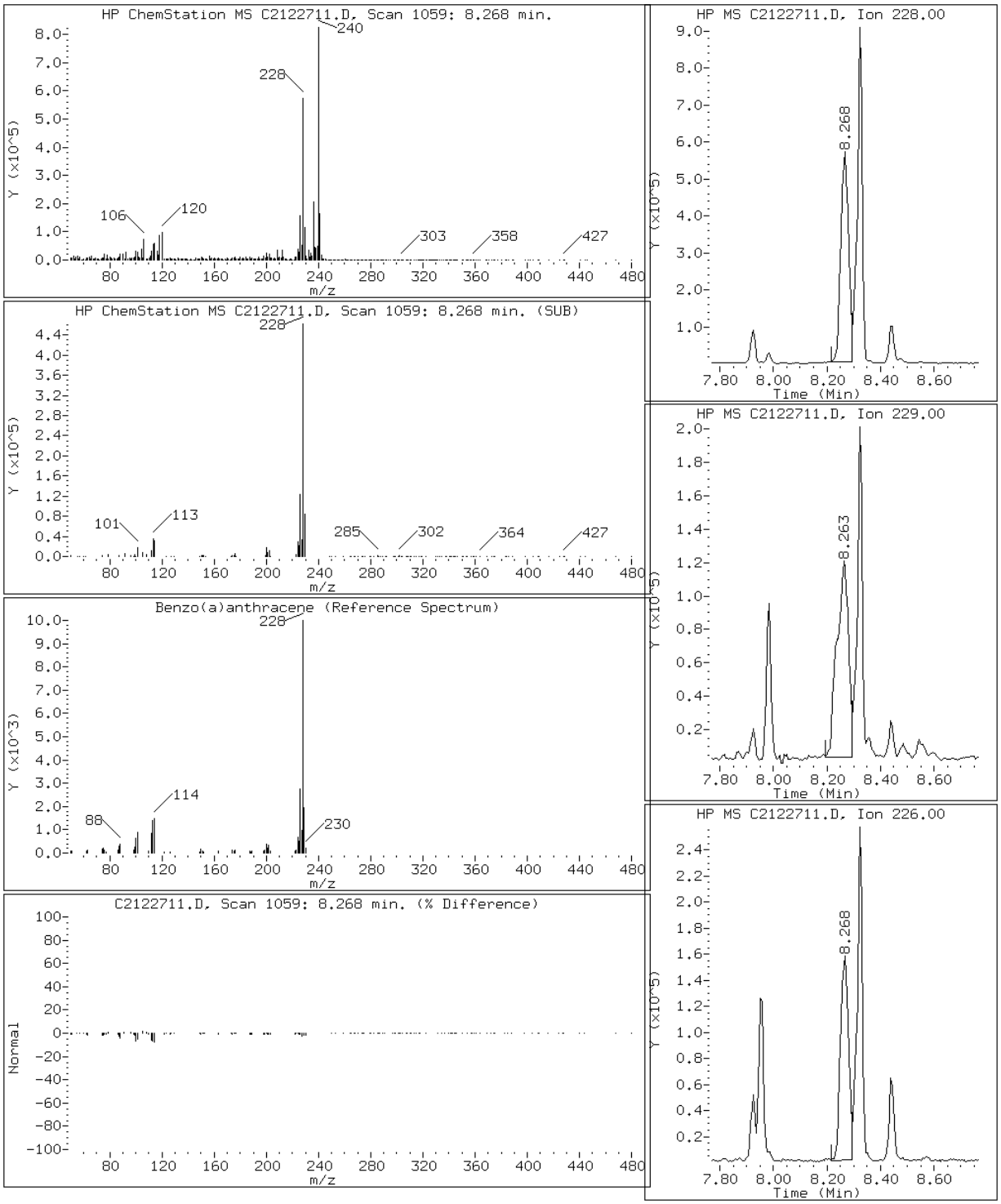
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

16 Benzo(a)anthracene



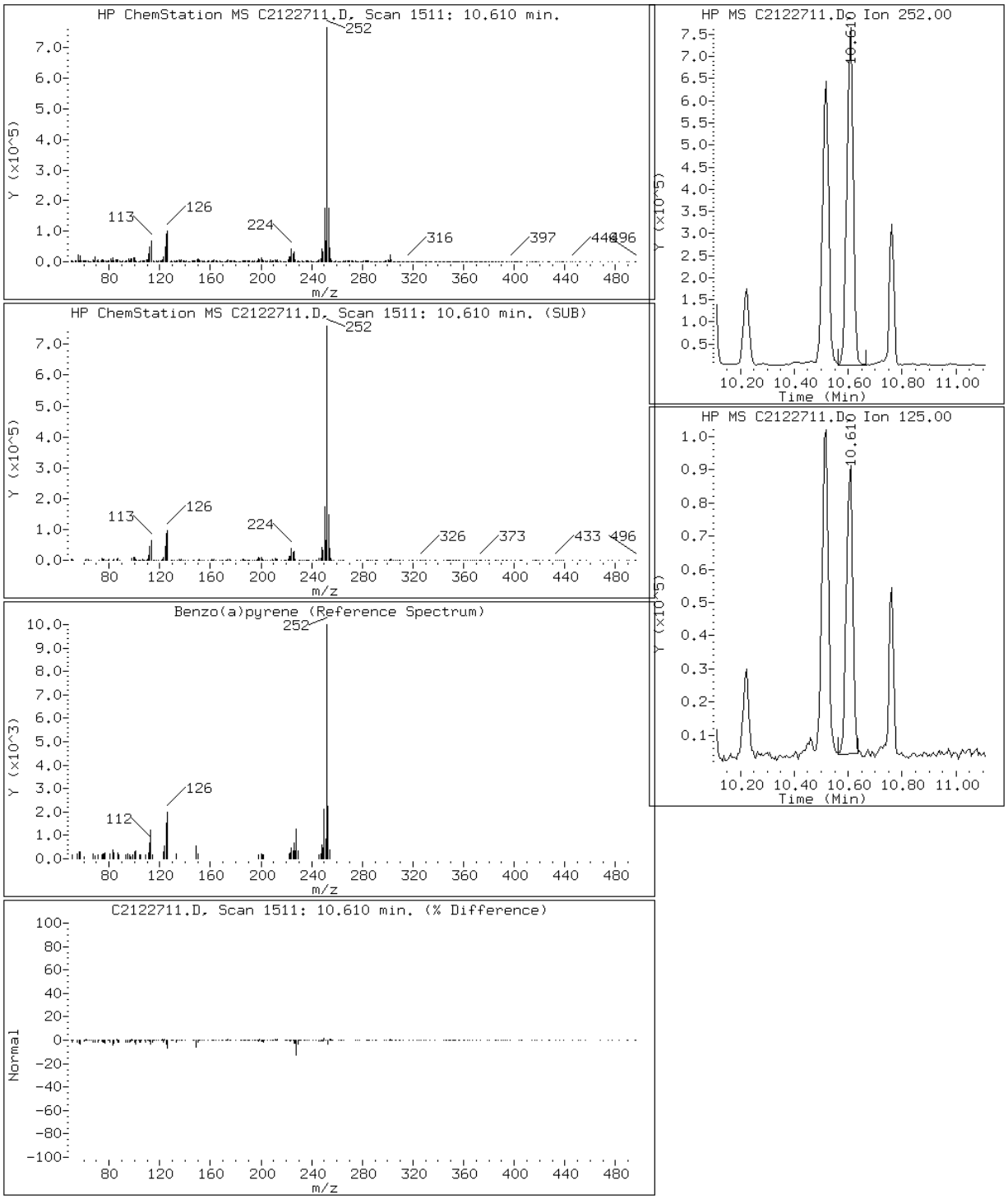
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

21 Benzo(a)pyrene



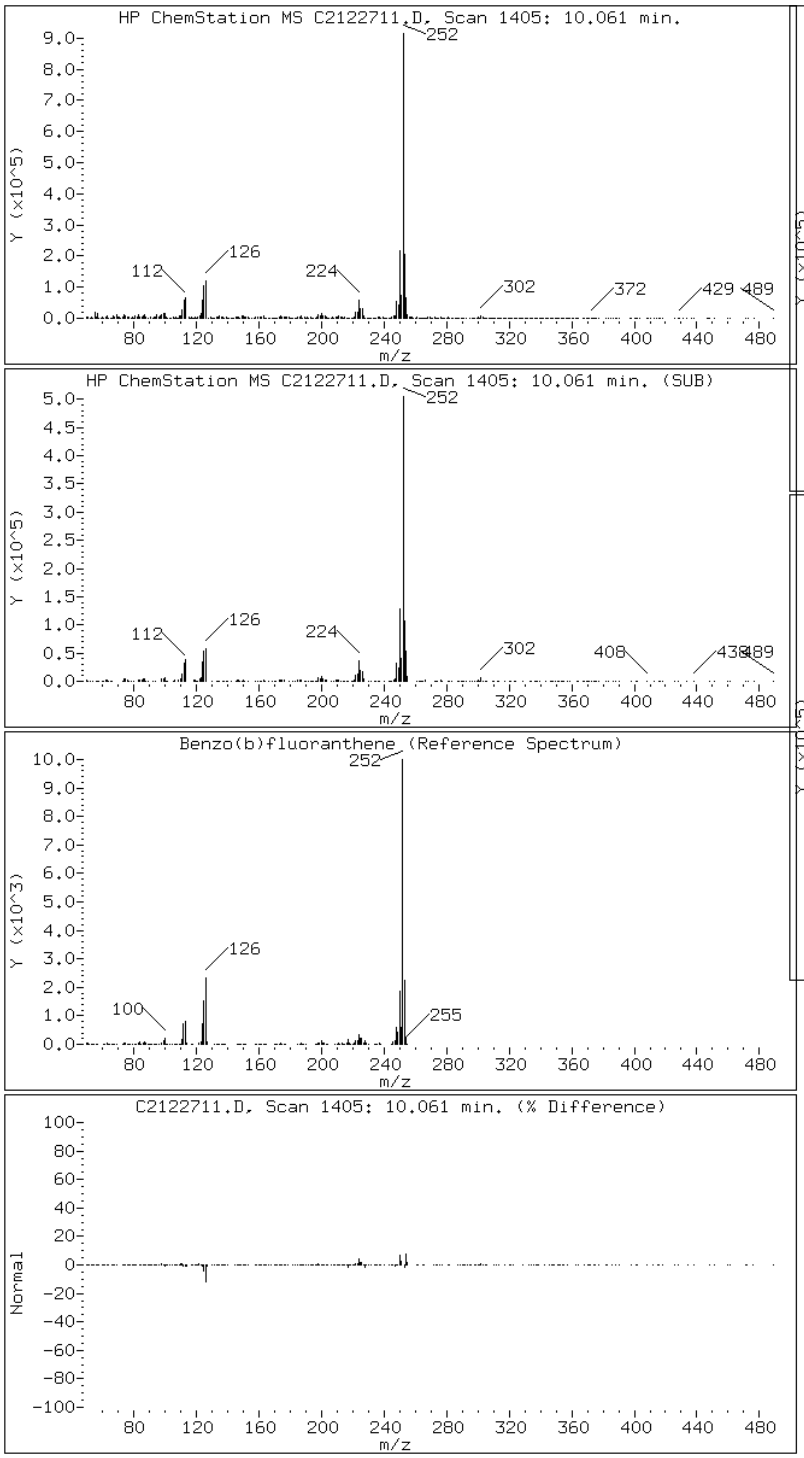
Data File: C2122711.D

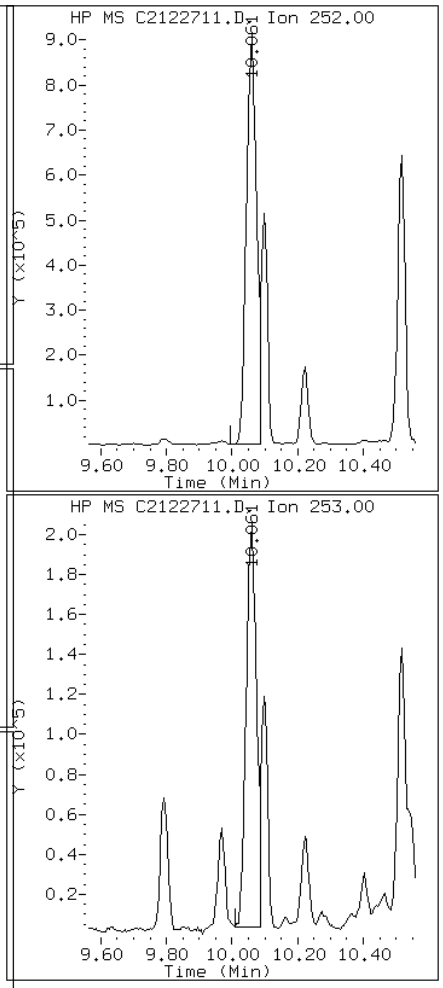
Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

19 Benzo(b)fluoranthene





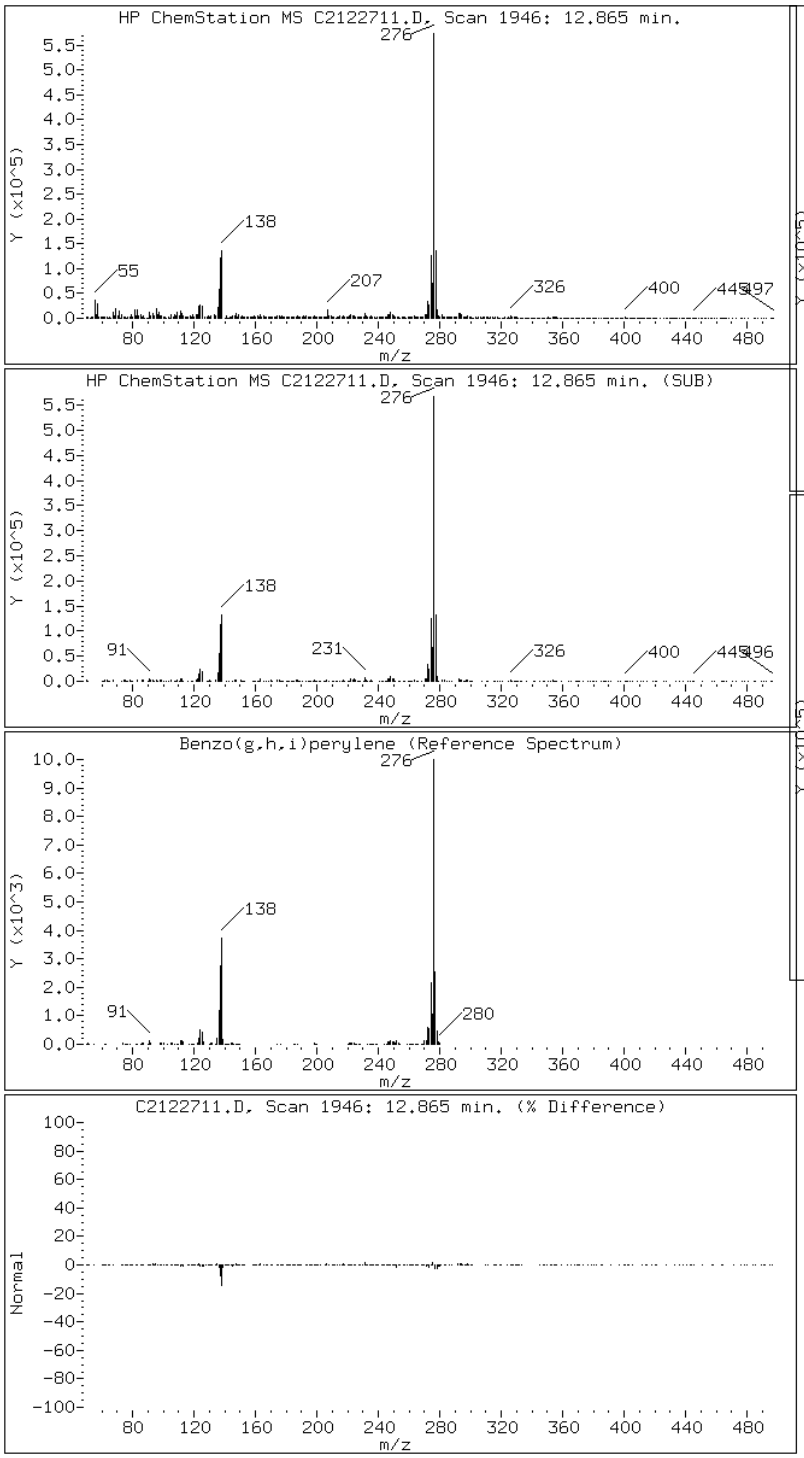
Data File: C2122711.D

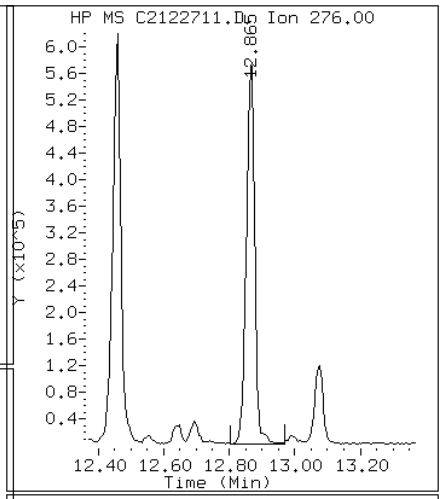
Date: 27-DEC-2012 10:19

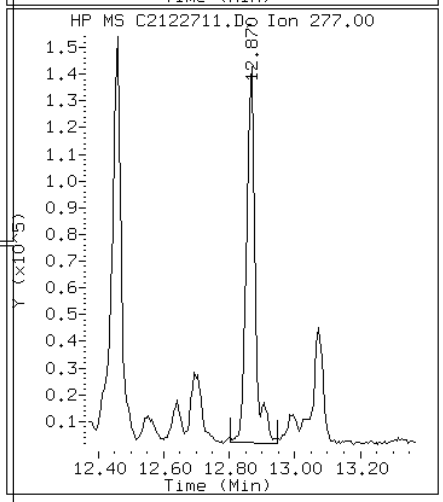
Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

24 Benzo(g,h,i)perylene







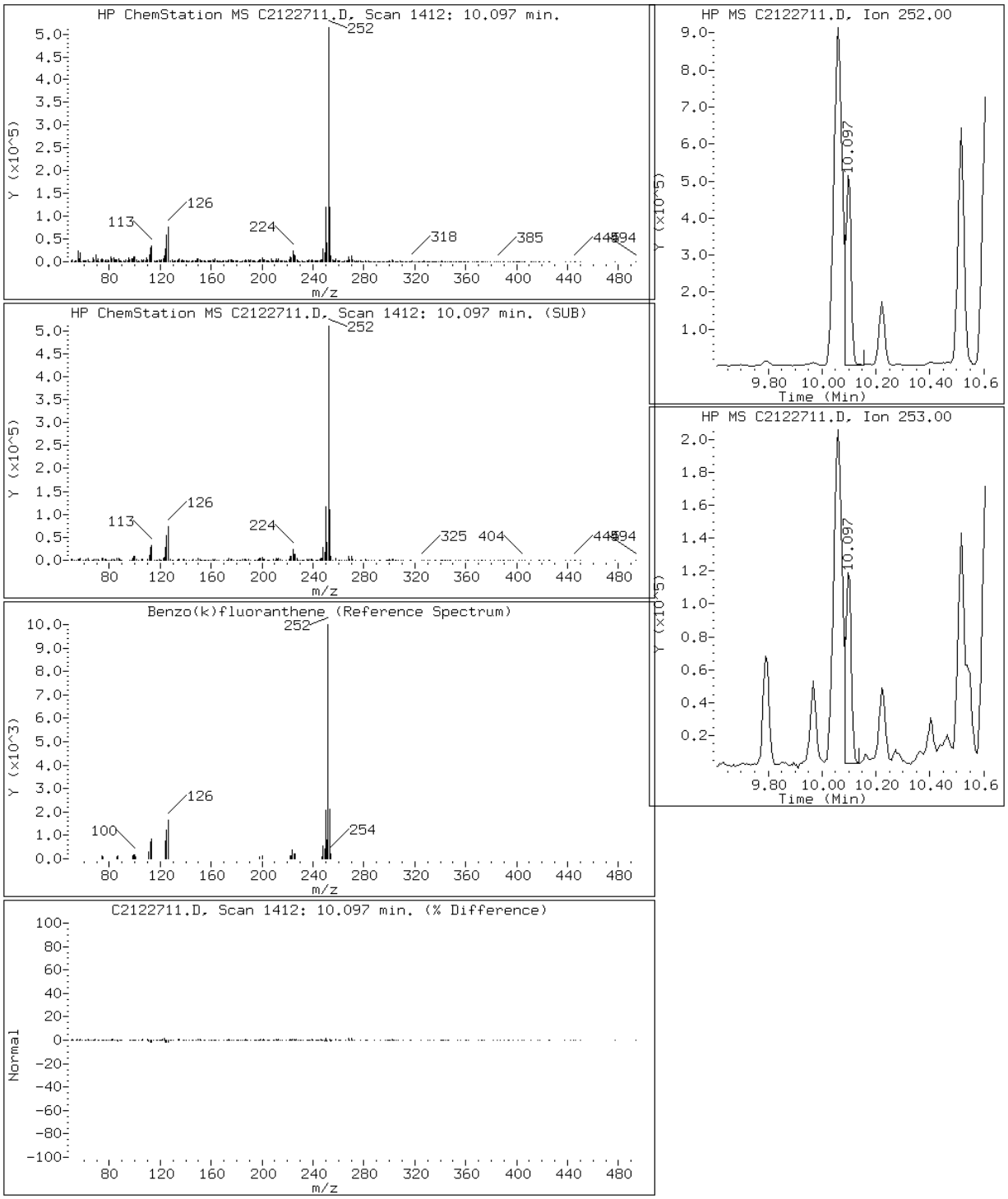
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

20 Benzo(k)fluoranthene



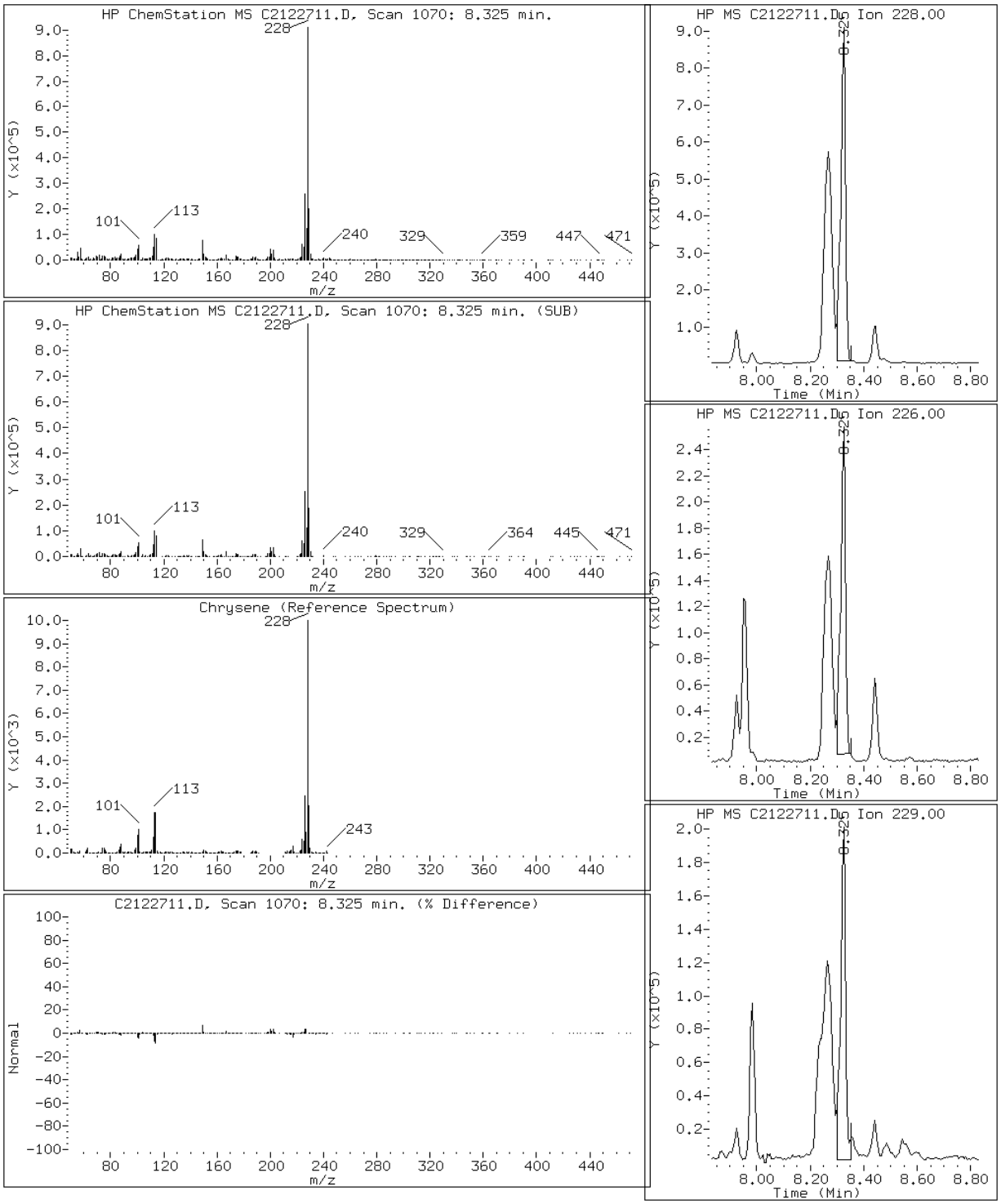
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

17 Chrysene



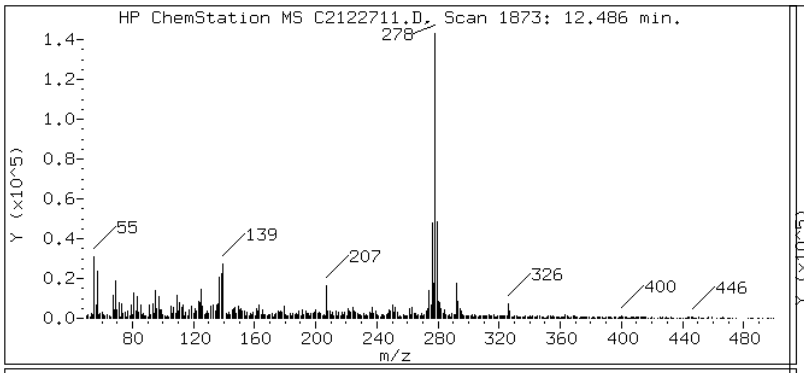
Data File: C2122711.D

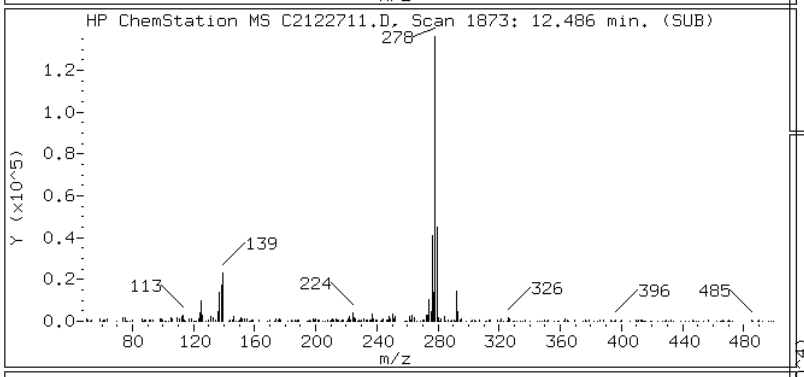
Date: 27-DEC-2012 10:19

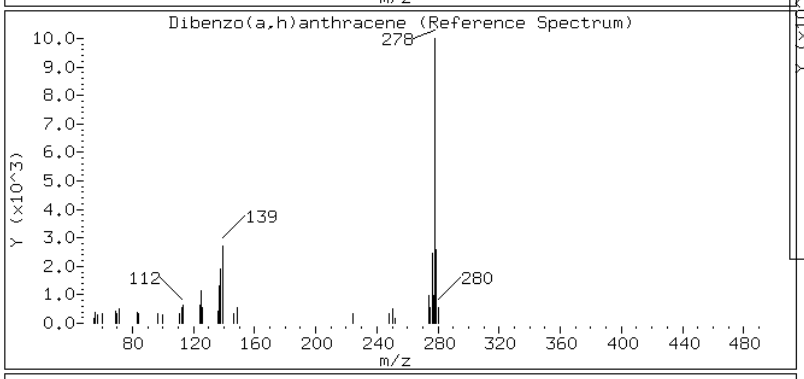
Client ID: CV0511D-CS Instrument: TSMC5973.i

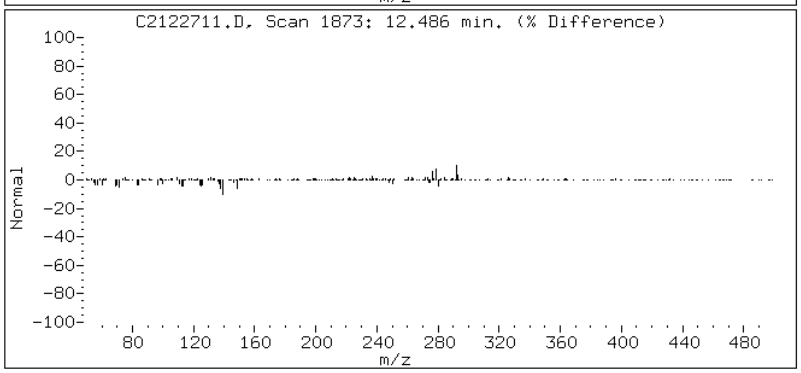
Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

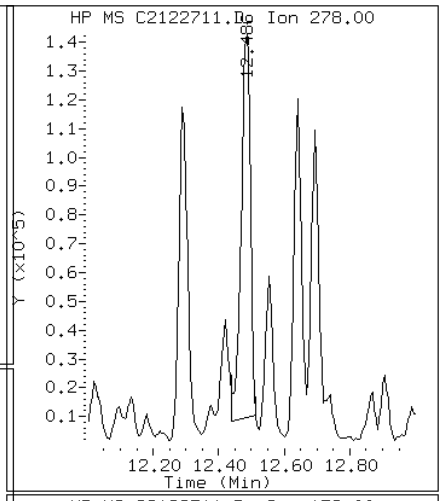
23 Dibenzo(a,h)anthracene

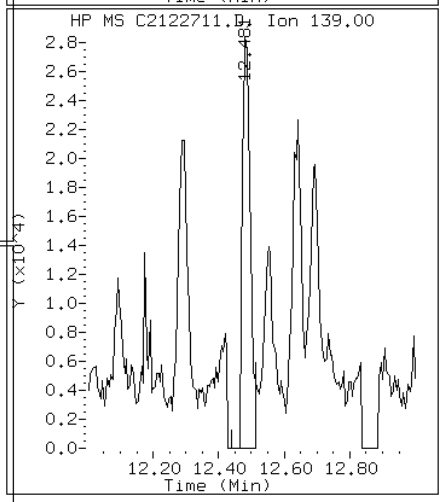












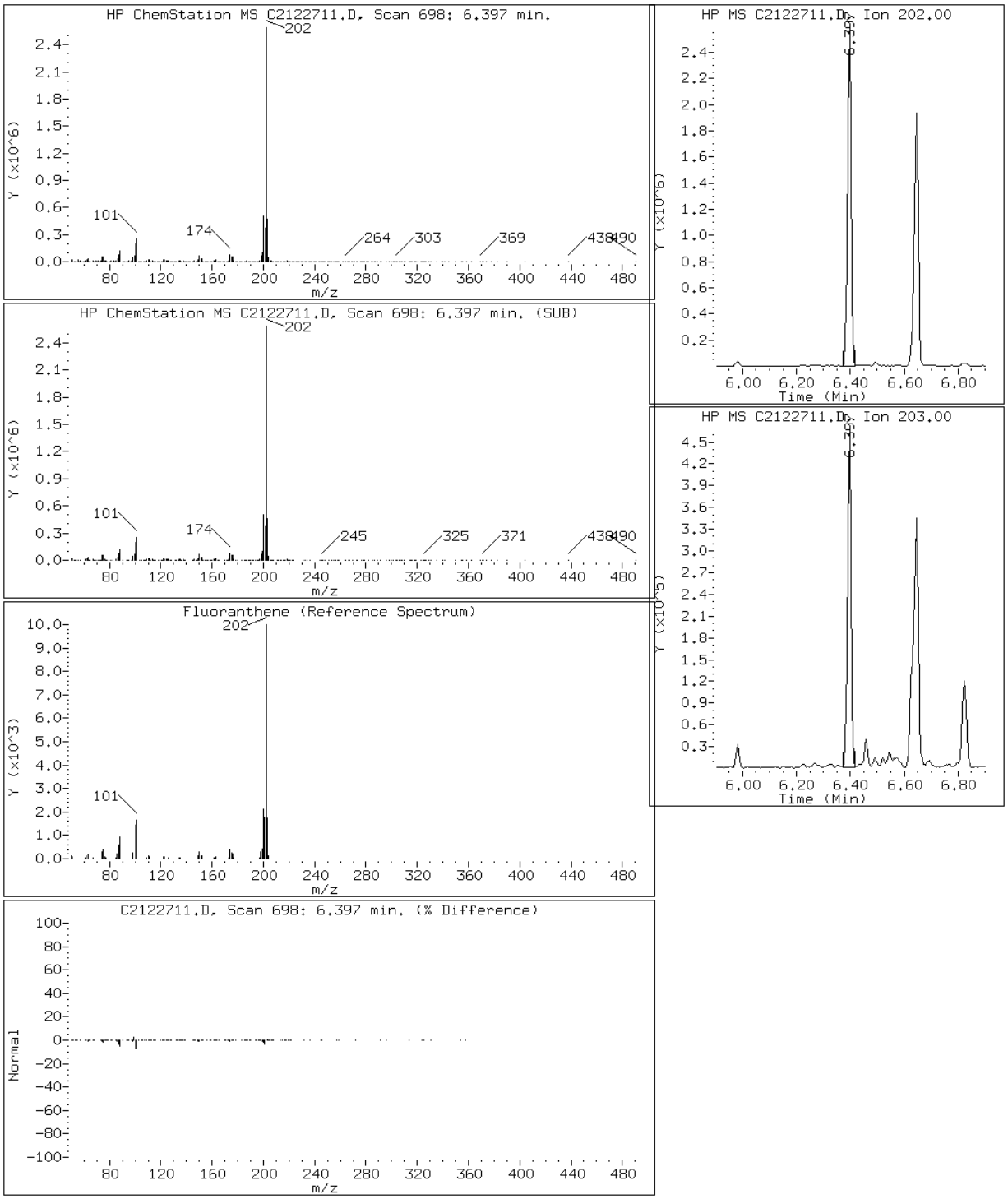
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

13 Fluoranthene



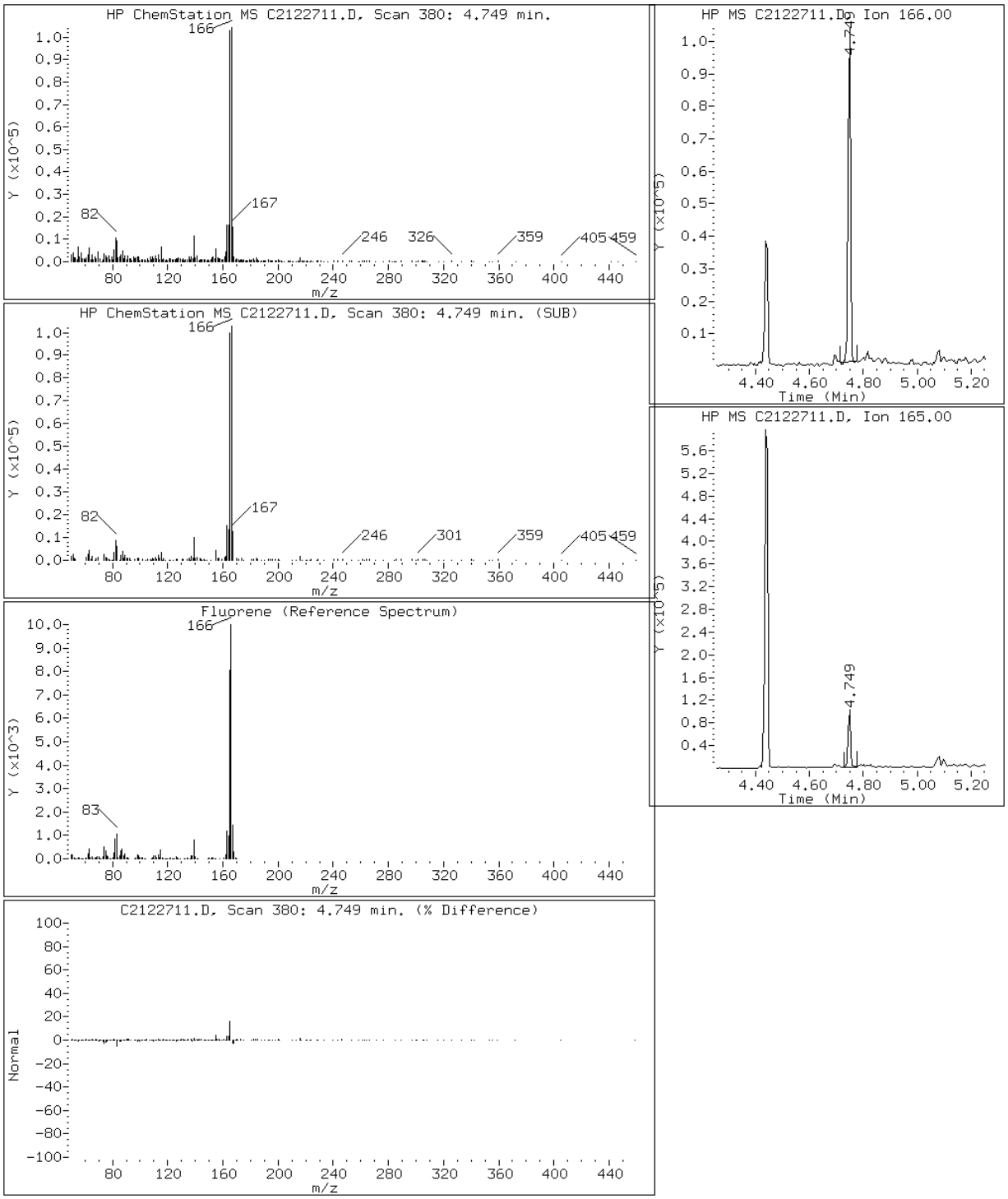
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

8 Fluorene



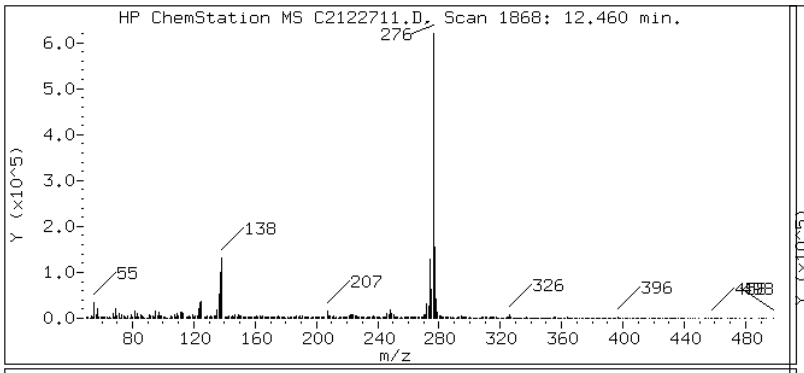
Data File: C2122711.D

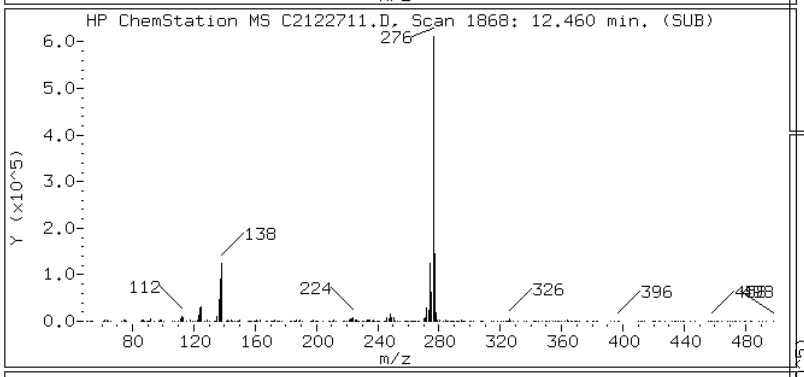
Date: 27-DEC-2012 10:19

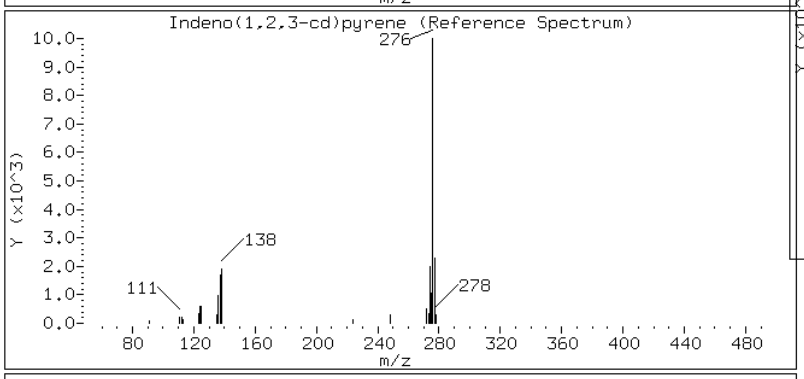
Client ID: CV0511D-CS Instrument: TSMC5973.i

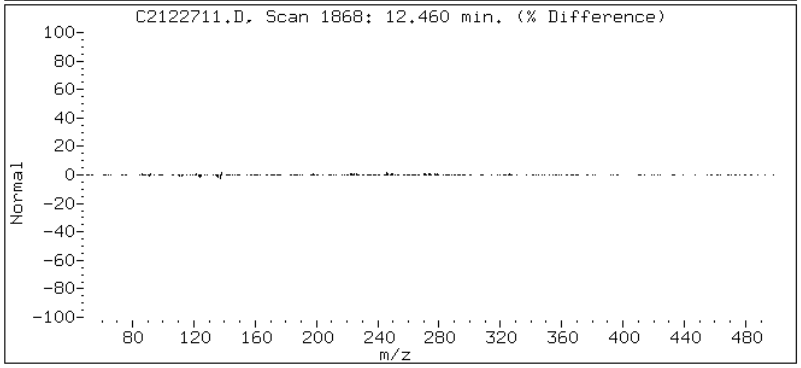
Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

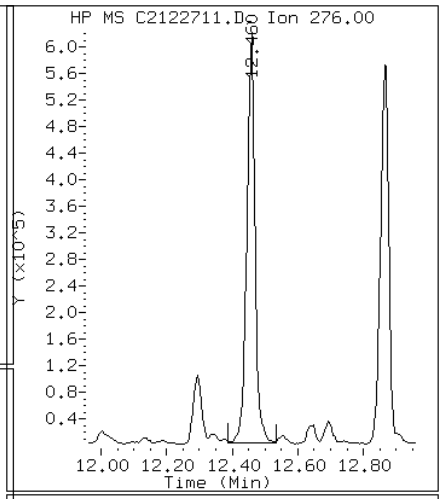
22 Indeno(1,2,3-cd)pyrene

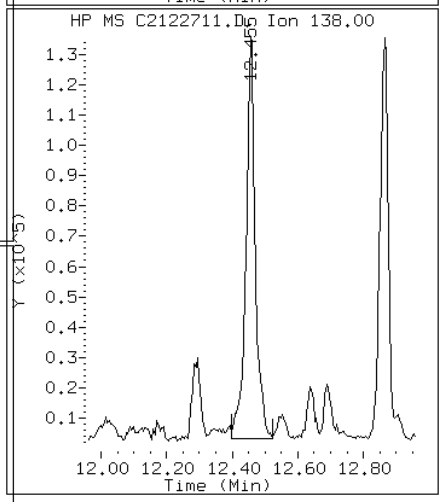












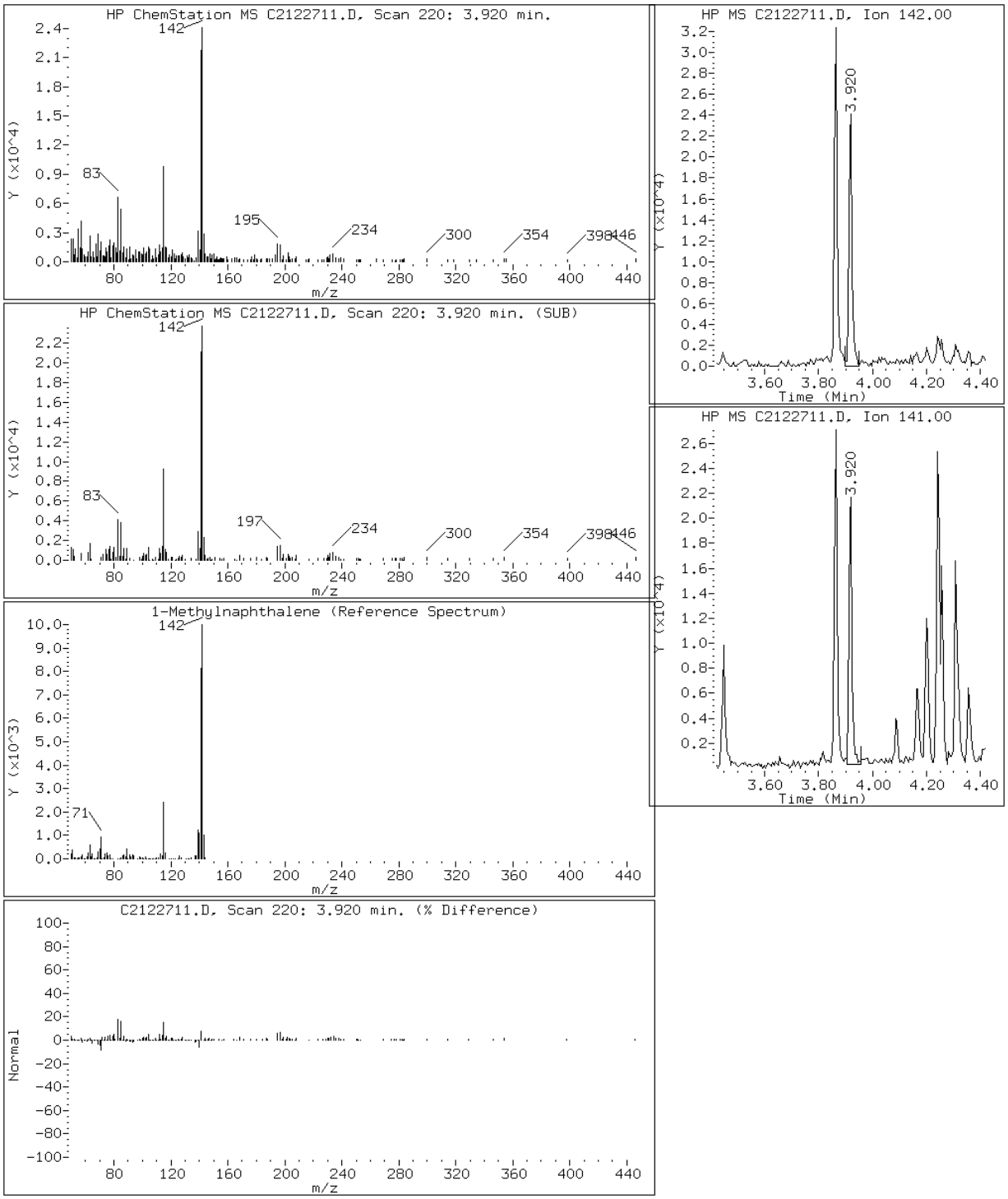
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

4 1-Methylnaphthalene



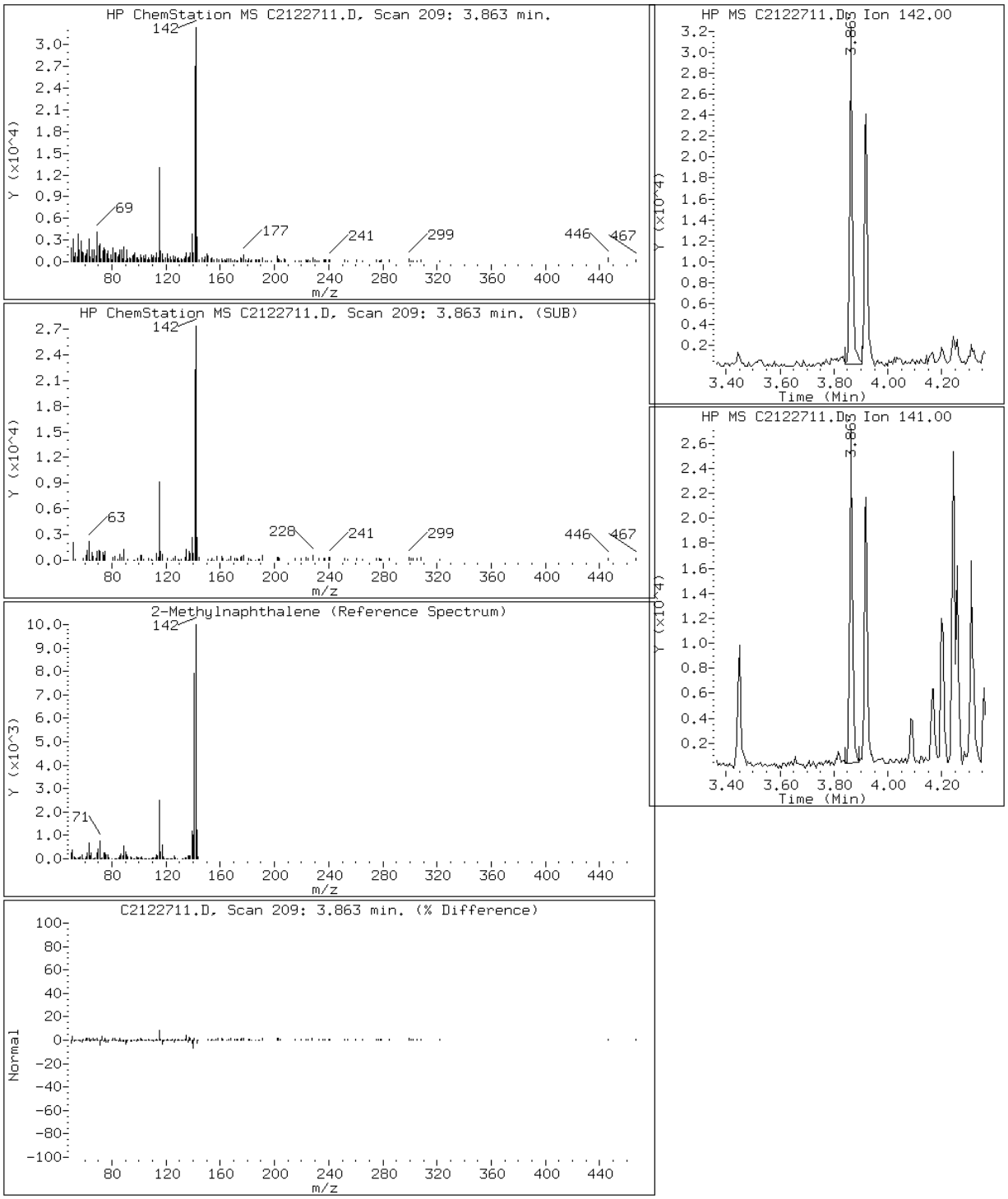
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

3 2-Methylnaphthalene



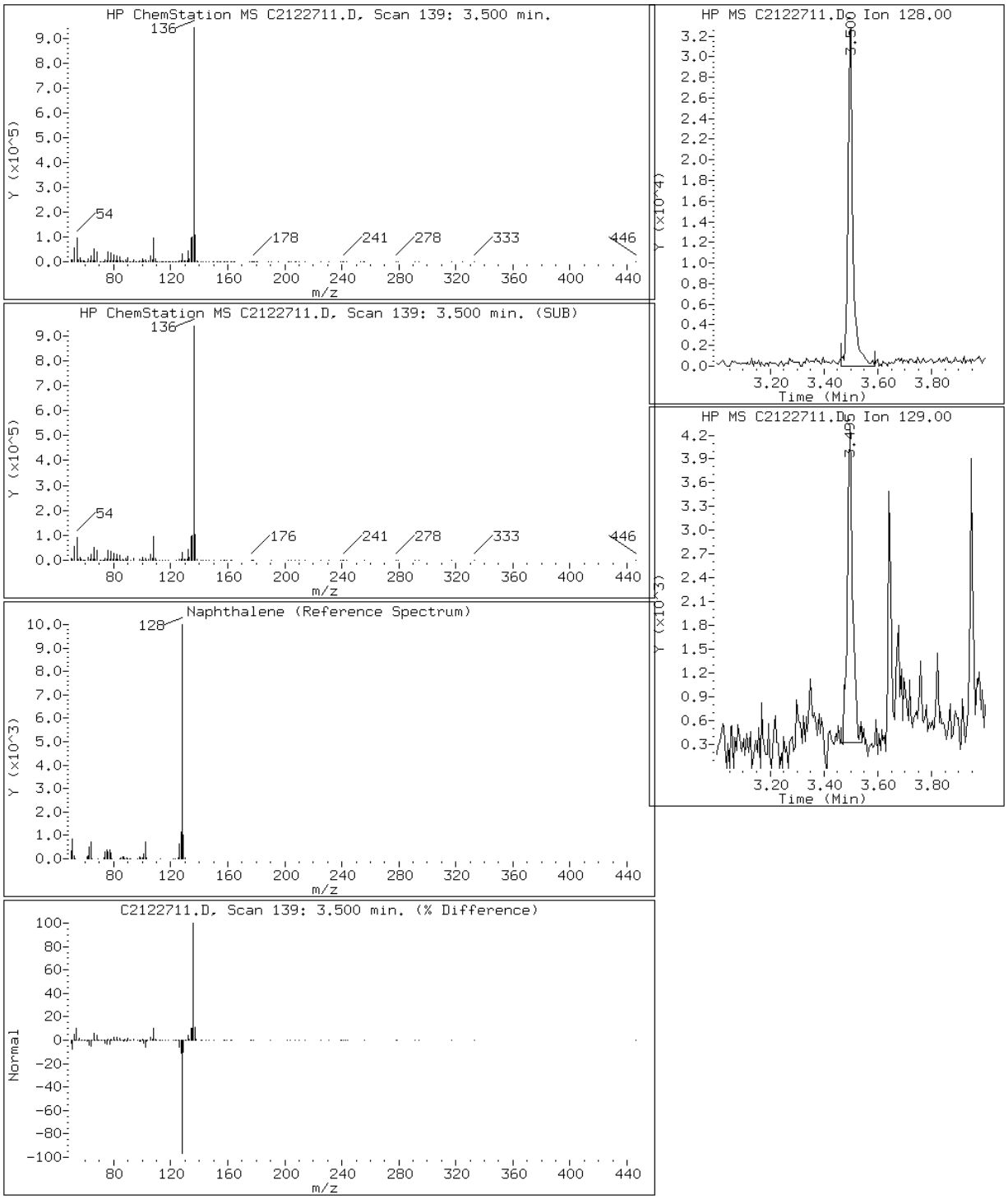
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

2 Naphthalene



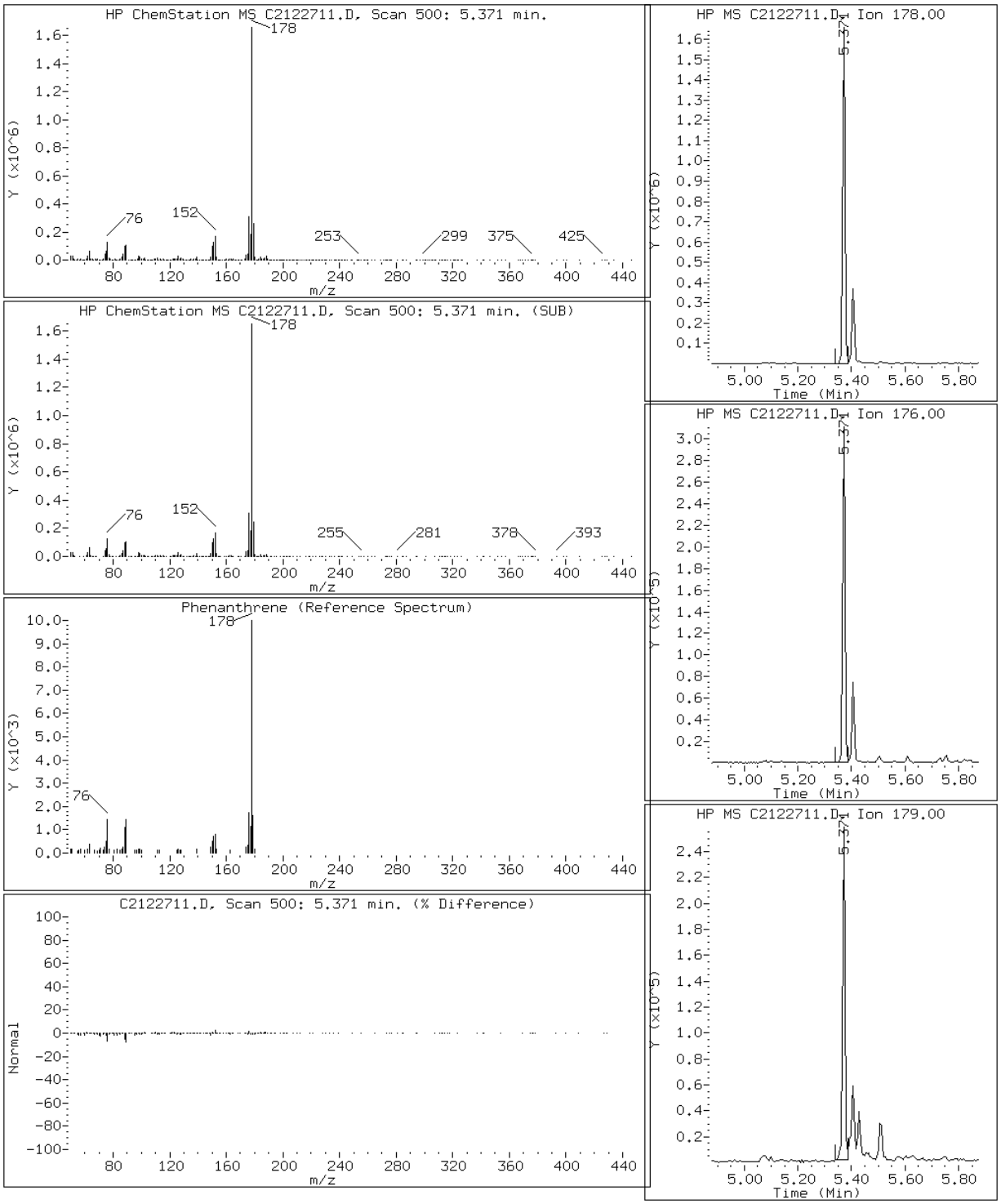
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

10 Phenanthrene



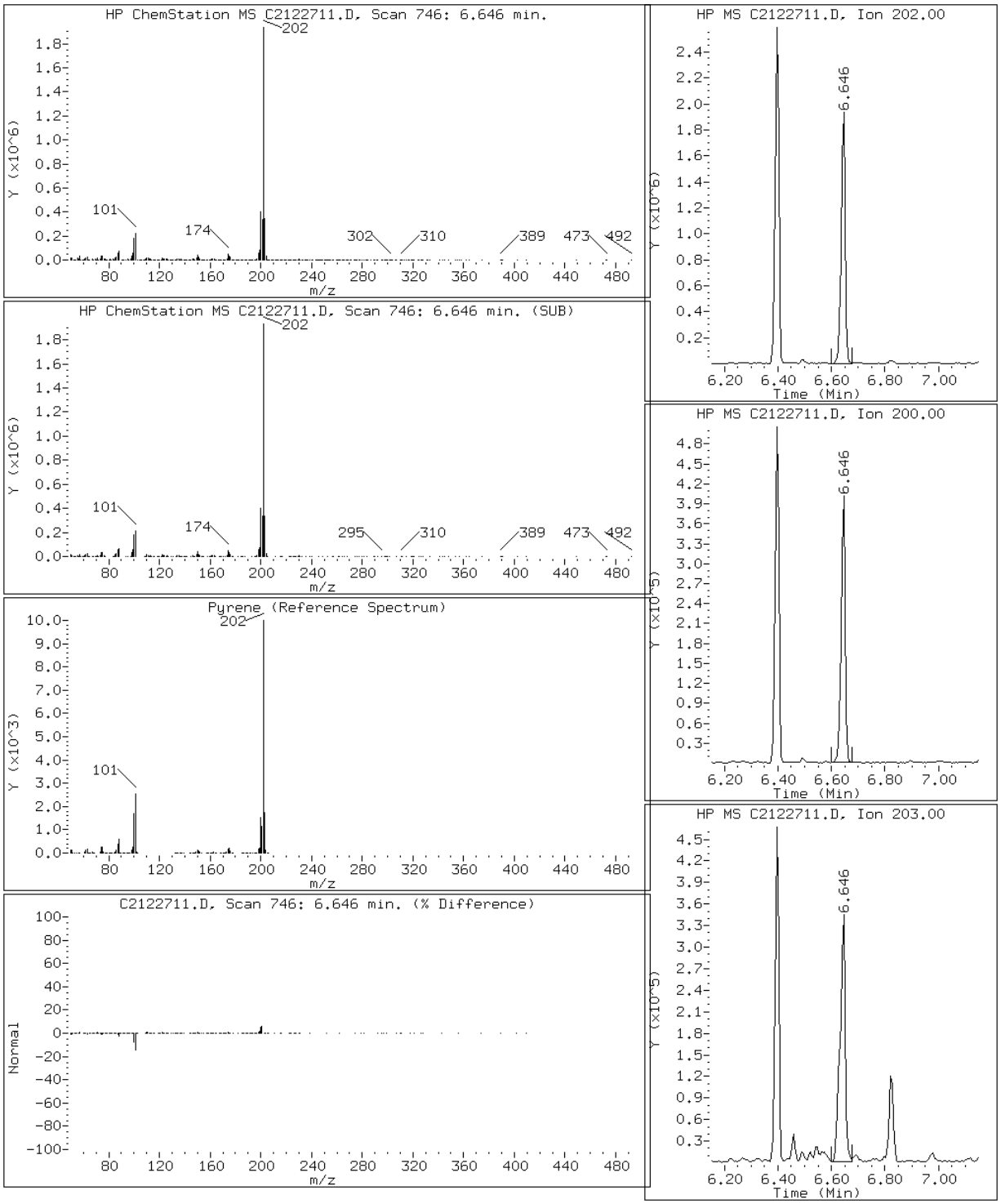
Data File: C2122711.D

Date: 27-DEC-2012 10:19

Client ID: CV0511D-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-36-A~98122~4~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122711.D
Inj. Date and Time: 27-DEC-2012 10:19
Instrument ID: TSMC5973.i
Client ID: CV0511D-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

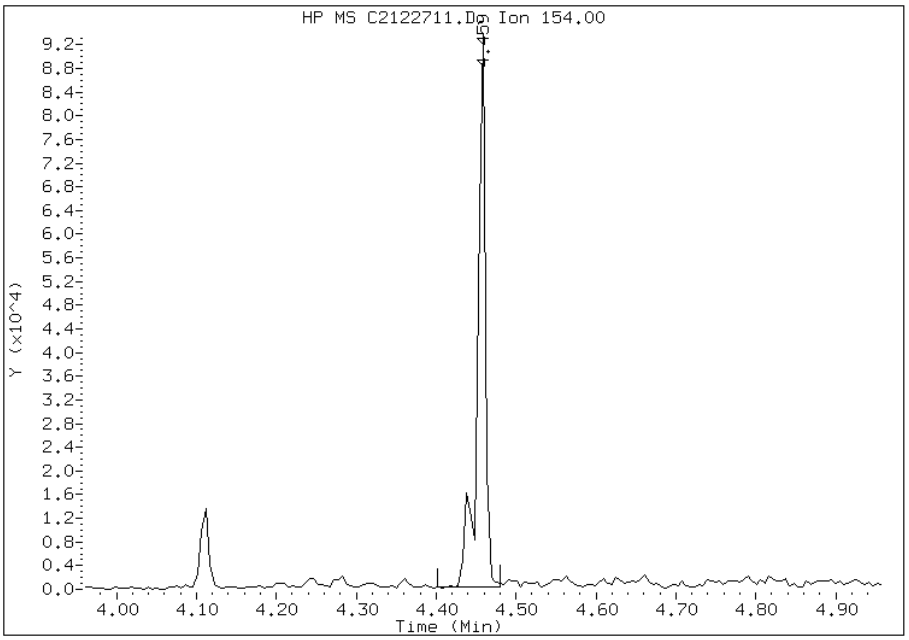
Processing Integration Results

RT: 4.46

Response: 68479

Amount: 1

Conc: 100



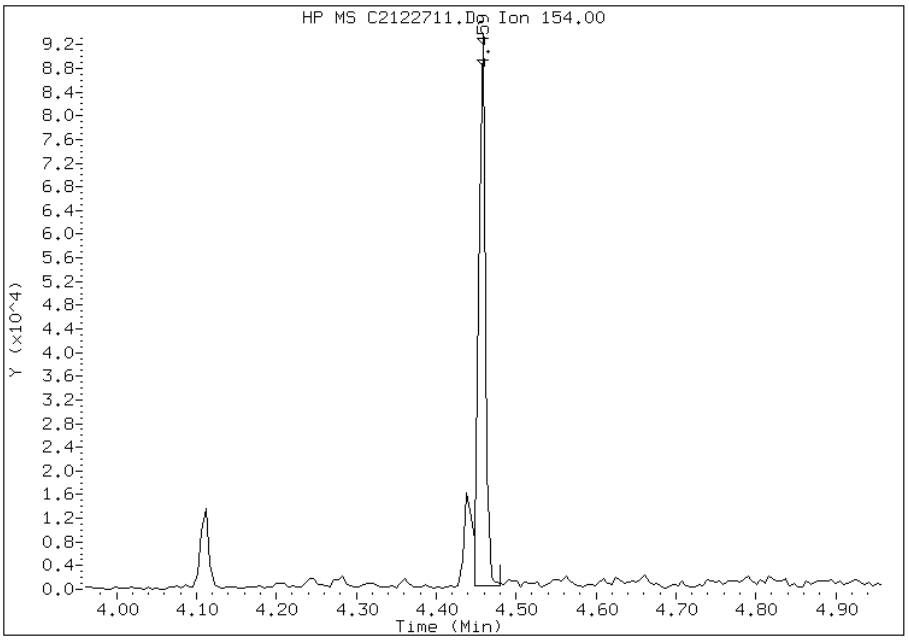
Manual Integration Results

RT: 4.46

Response: 57773

Amount: 1

Conc: 84



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:26
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511D-CSD | Lab Sample ID: 680-85785-37

Matrix: Solid | Lab File ID: C2122712.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:20

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.11(g) | Date Analyzed: 12/27/2012 10:38

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

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

% Moisture: 27.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	370		46	4.0
208-96-8	Acenaphthylene	59		46	3.7
120-12-7	Anthracene	850		46	4.5
56-55-3	Benzo[a]anthracene	1600		46	4.3
50-32-8	Benzo[a]pyrene	1400		46	4.7
205-99-2	Benzo[b]fluoranthene	1800		46	6.5
191-24-2	Benzo[g,h,i]perylene	940		46	7.6
207-08-9	Benzo[k]fluoranthene	750		46	4.4
218-01-9	Chrysene	1600		46	5.2
53-70-3	Dibenz(a,h)anthracene	250		46	4.5
206-44-0	Fluoranthene	3800		46	4.1
86-73-7	Fluorene	390		46	3.6
193-39-5	Indeno[1,2,3-cd]pyrene	1000		46	7.6
90-12-0	1-Methylnaphthalene	140		46	3.7
91-57-6	2-Methylnaphthalene	180		46	3.6
91-20-3	Naphthalene	420		46	3.6
85-01-8	Phenanthrene	3700		46	3.0
129-00-0	Pyrene	2800		46	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	87		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122712.D
Lab Smp Id: 680-85785-A-37-A Client Smp ID: CV0511D-CSD
Inj Date : 27-DEC-2012 10:38
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-37-A~98122~5~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 6
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	5.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.110	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.282	3.282	(0.942)	25413	0.41889	70	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5638172	40.0000		
2 Naphthalene	128	3.494	3.500	(1.003)	249153	1.80826	300	
3 2-Methylnaphthalene	142	3.862	3.863	(1.109)	82399	0.78801	130	
4 1-Methylnaphthalene	142	3.919	3.920	(1.125)	61933	0.60381	100	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3138422	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	42993	0.25494	42	
7 Acenaphthene	154	4.458	4.459	(1.003)	140654	1.59416	260	
8 Fluorene	166	4.749	4.754	(1.069)	200065	1.69858	280	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5129735	40.0000		
10 Phenanthrene	178	5.376	5.376	(1.004)	2314208	16.2528	2700	
11 Anthracene	178	5.407	5.412	(1.010)	569434	3.69551	610	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	66513	0.69678	120	
13 Fluoranthene	202	6.397	6.402	(1.195)	3126445	16.3416	2700	

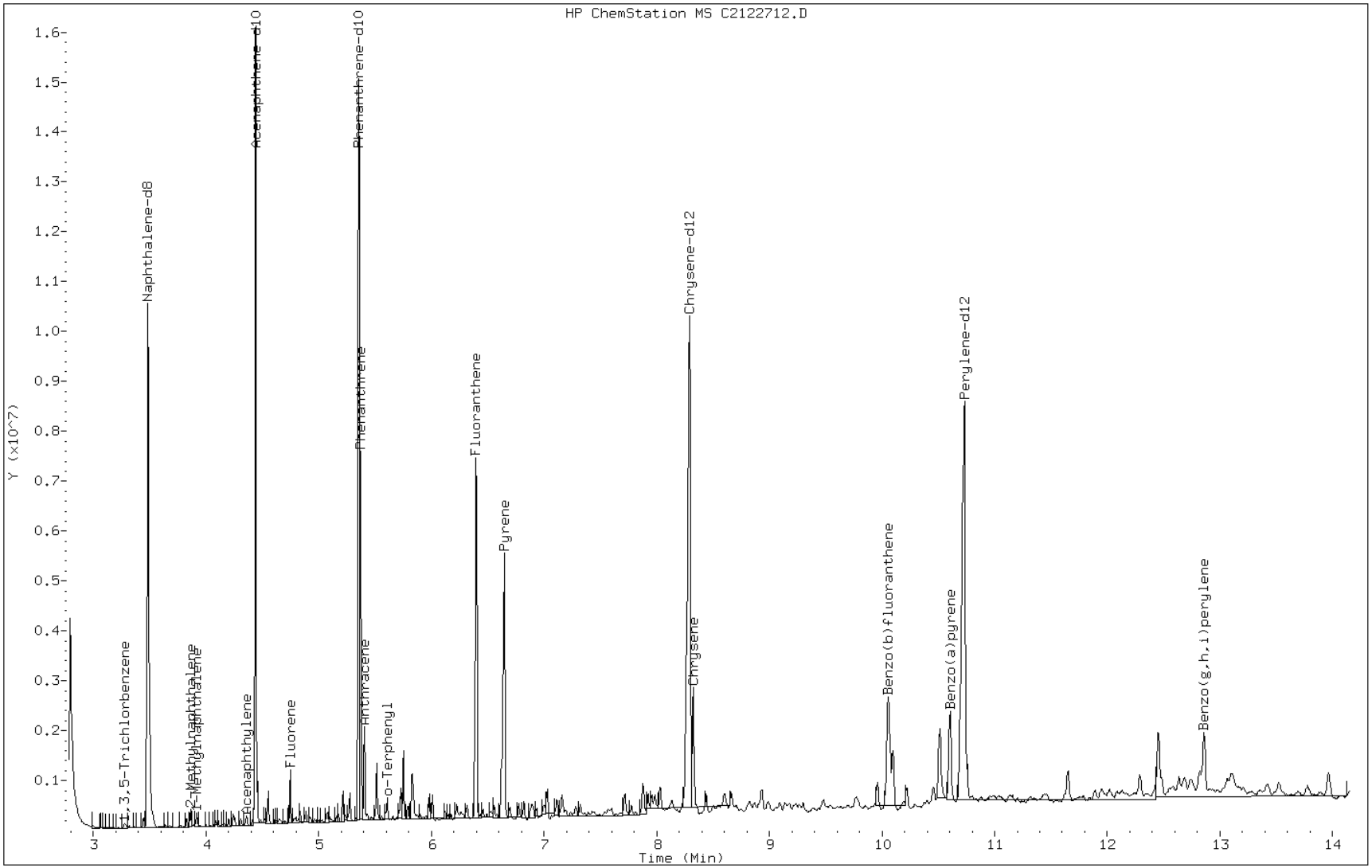
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.293	8.299	(1.000)	5419121	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	2475727	12.1942	2000	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	1259734	6.79707	1100	
17 Chrysene	228	8.324	8.330	(1.004)	1150514	7.17342	1200	
* 18 Perylene-d12	264	10.734	10.734	(1.000)	6619391	40.0000		
19 Benzo(b)fluoranthene	252	10.055	10.061	(0.937)	1686980	8.00015	1300	
20 Benzo(k)fluoranthene	252	10.097	10.107	(0.941)	665639	3.24972	540	
21 Benzo(a)pyrene	252	10.604	10.610	(0.988)	1155456	6.17737	1000	
22 Indeno(1,2,3-cd)pyrene	276	12.449	12.460	(1.160)	867484	4.33936	720	
23 Dibenzo(a,h)anthracene	278	12.480	12.501	(1.163)	212228	1.09568	180	
24 Benzo(g,h,i)perylene	276	12.859	12.869	(1.198)	805337	4.10152	680	

Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW



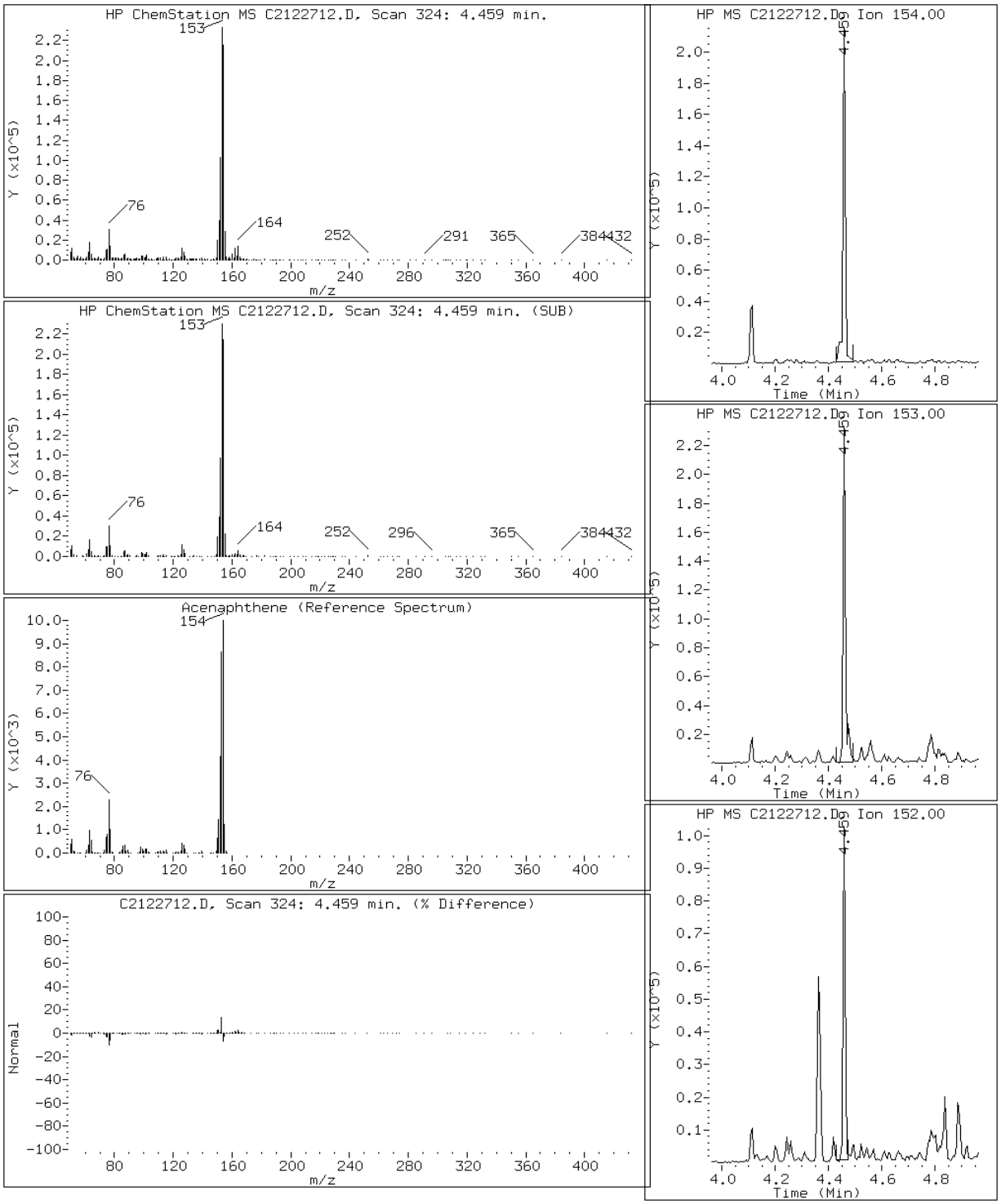
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

7 Acenaphthene



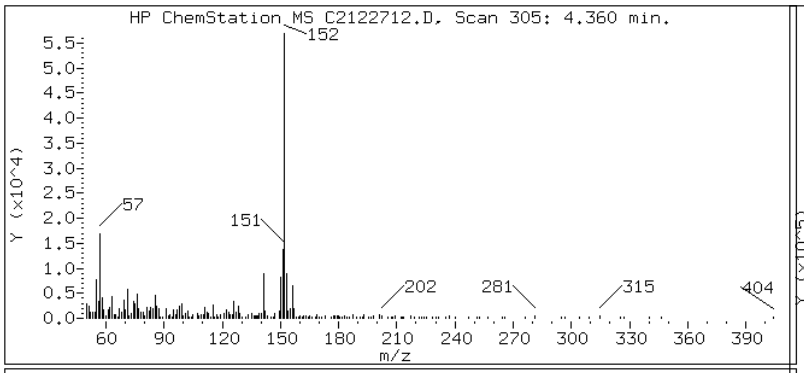
Data File: C2122712.D

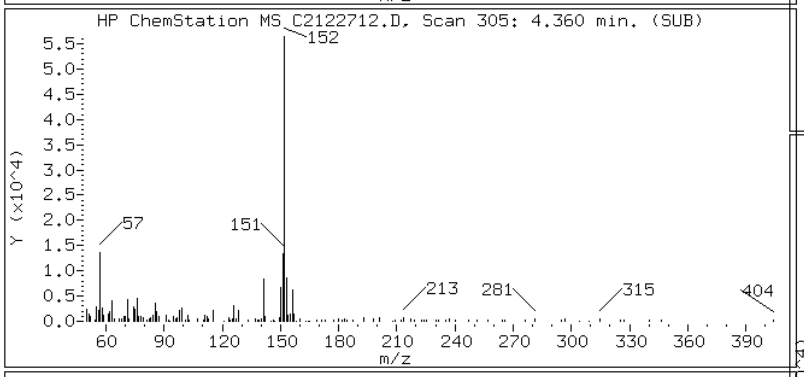
Date: 27-DEC-2012 10:38

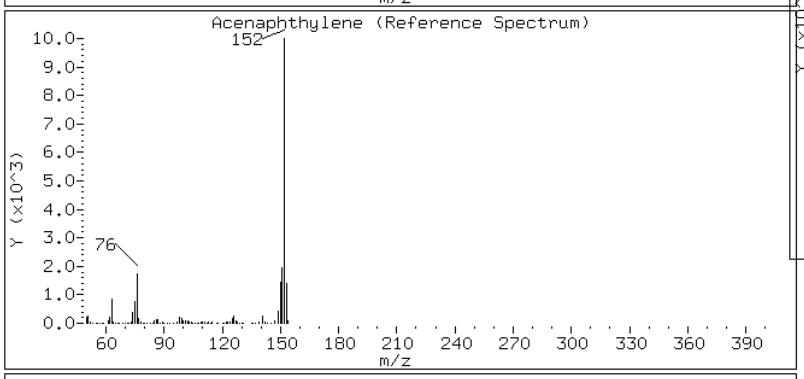
Client ID: CV0511D-CSD Instrument: TSMC5973.i

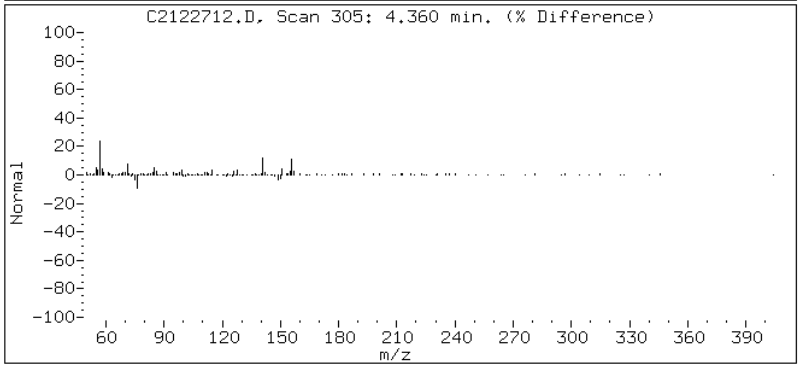
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

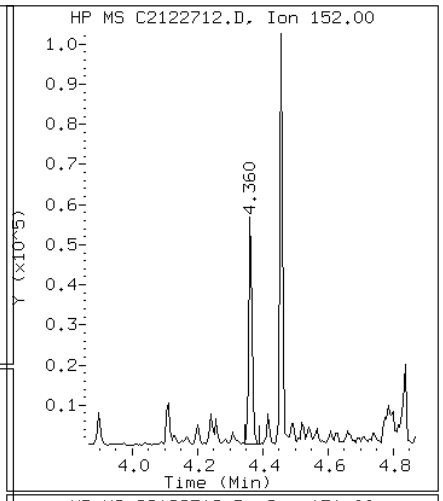
6 Acenaphthylene

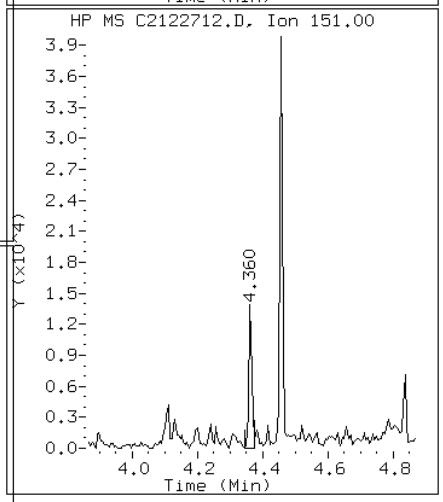












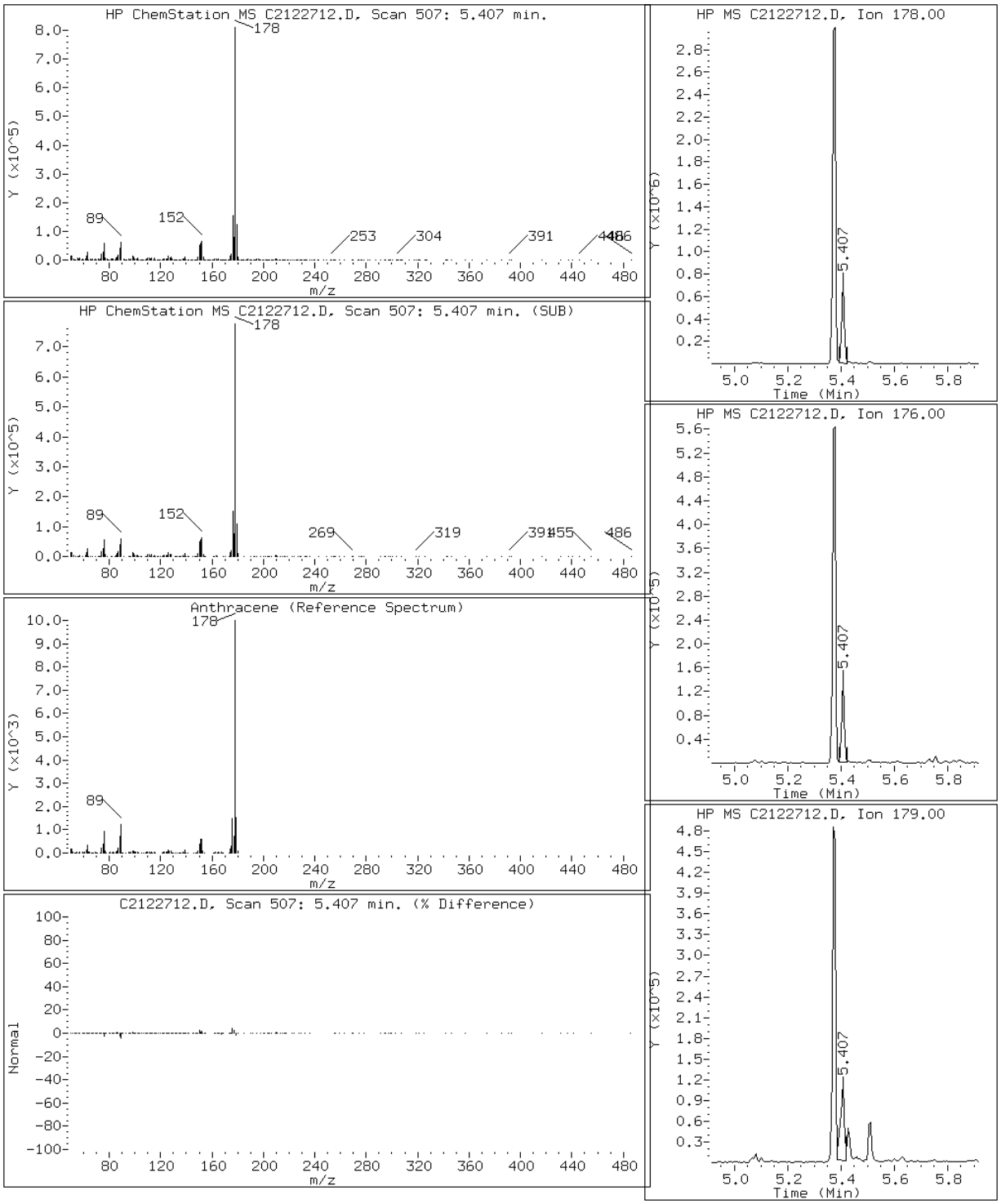
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

11 Anthracene



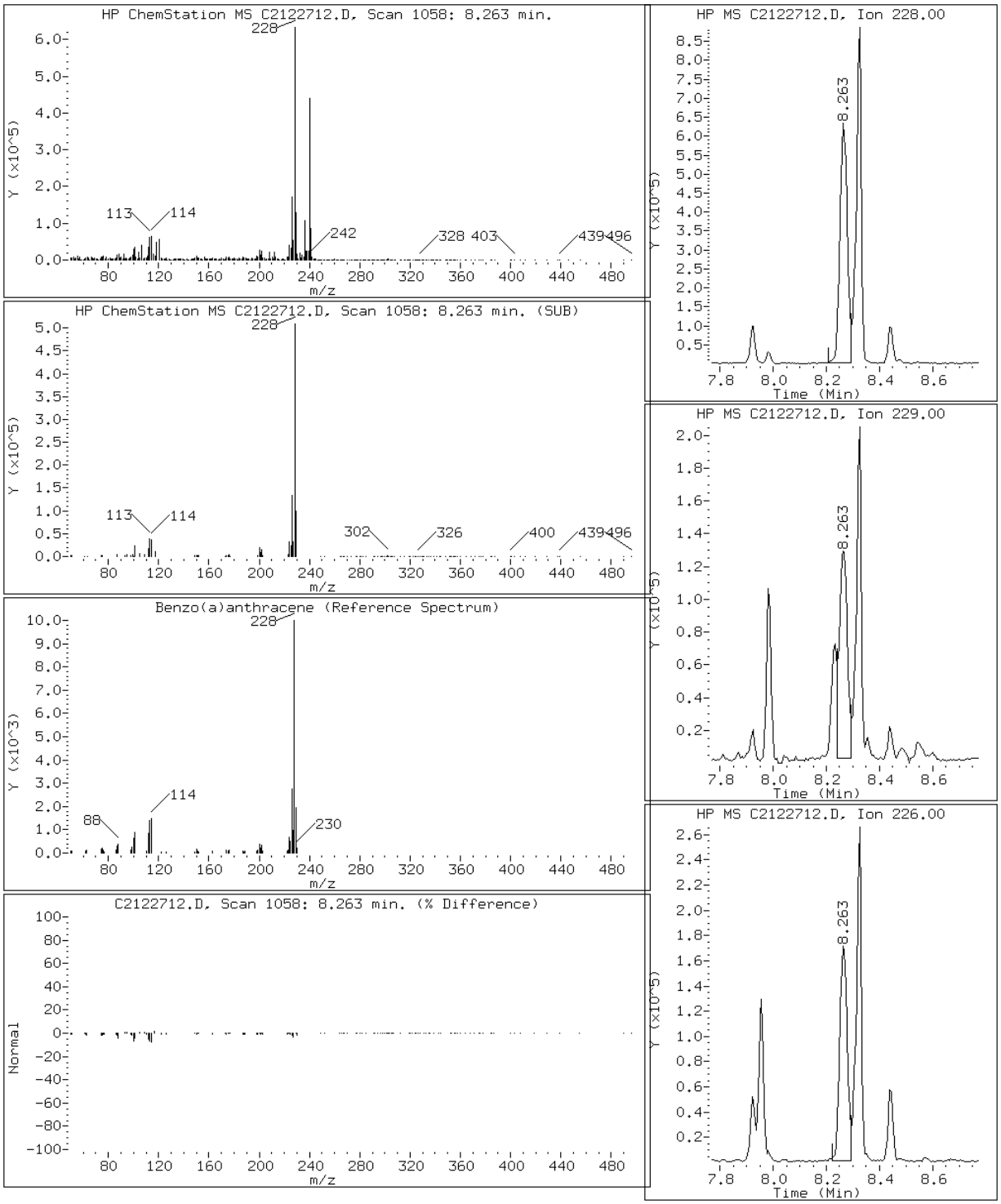
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

16 Benzo(a)anthracene



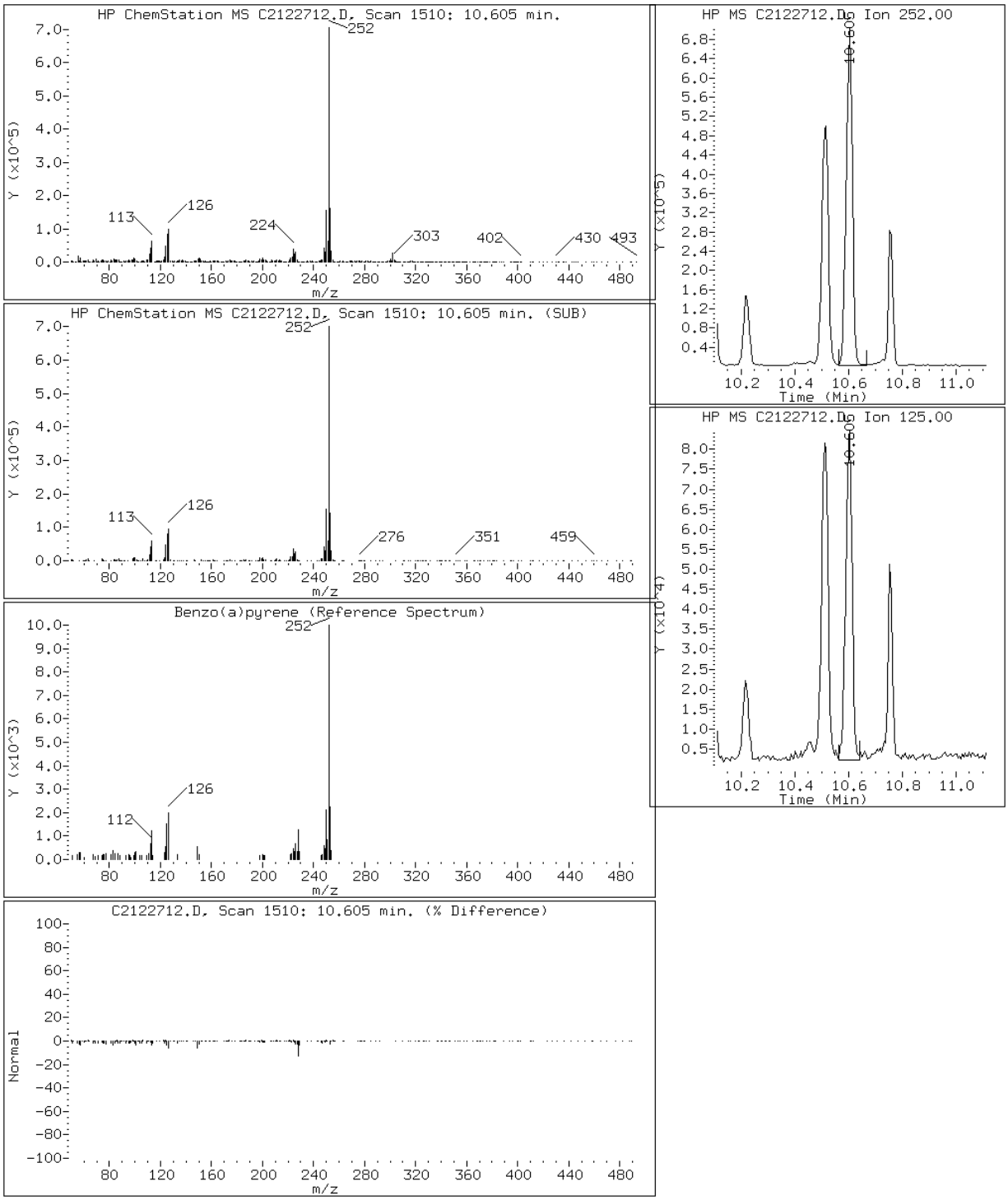
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

21 Benzo(a)pyrene



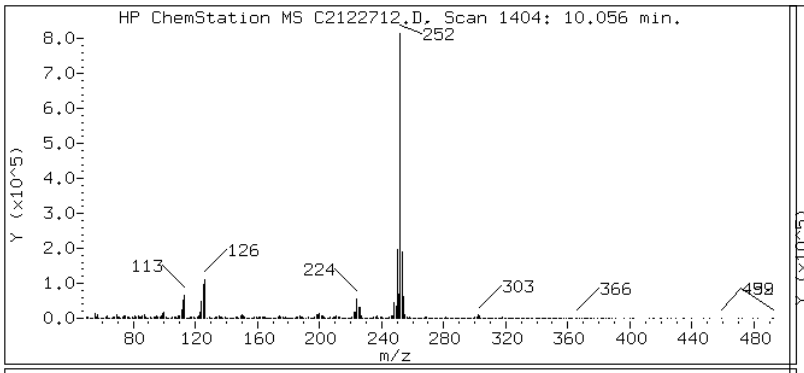
Data File: C2122712.D

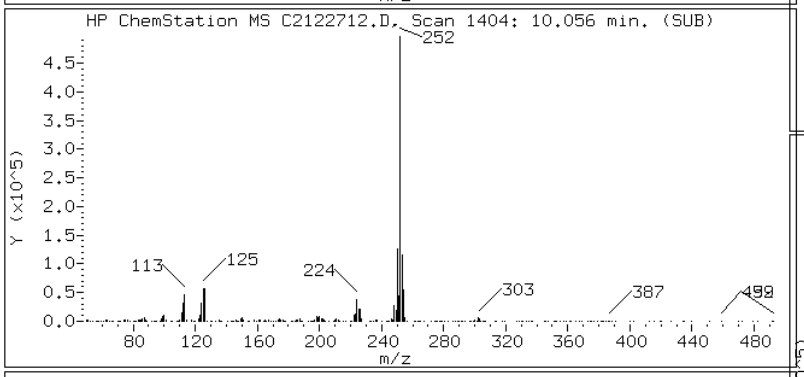
Date: 27-DEC-2012 10:38

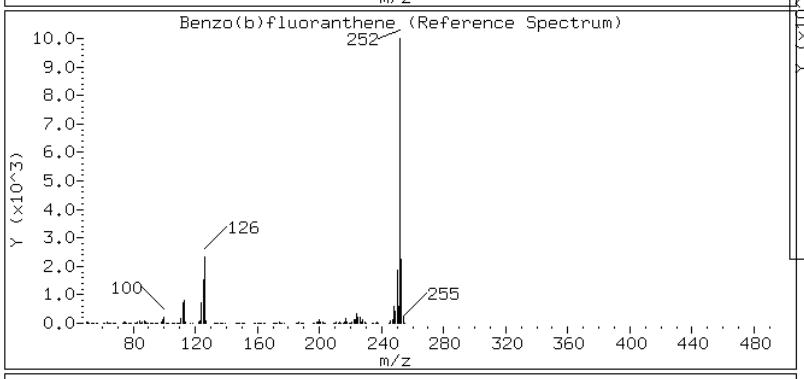
Client ID: CV0511D-CSD Instrument: TSMC5973.i

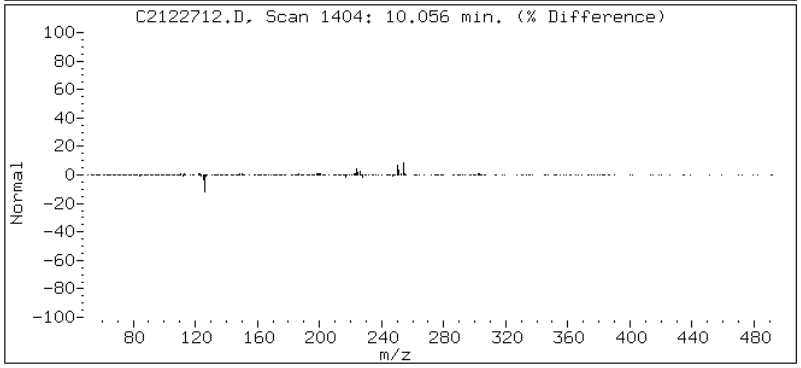
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

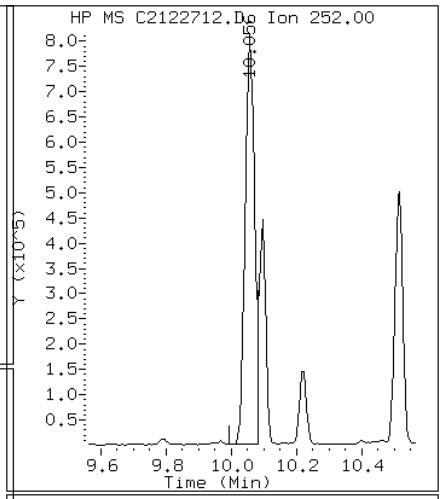
19 Benzo(b)fluoranthene

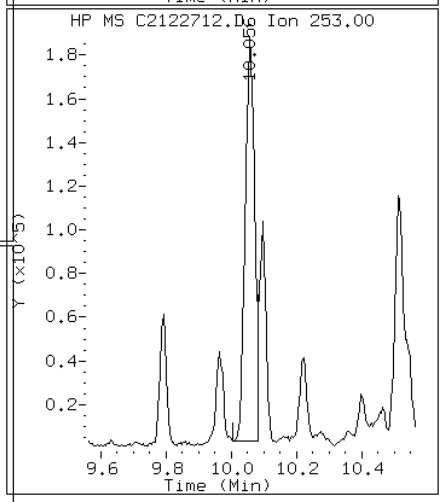












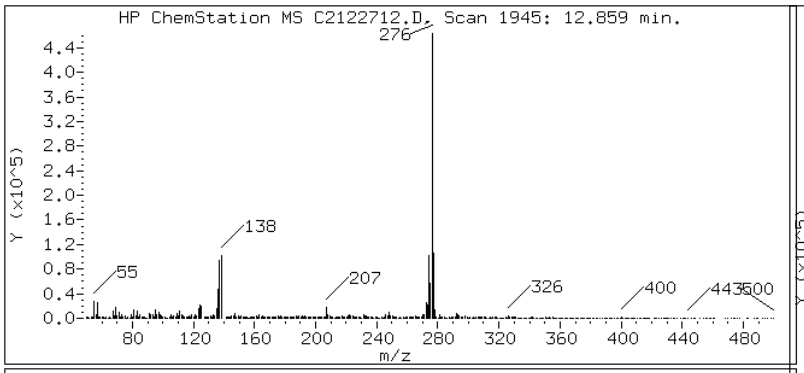
Data File: C2122712.D

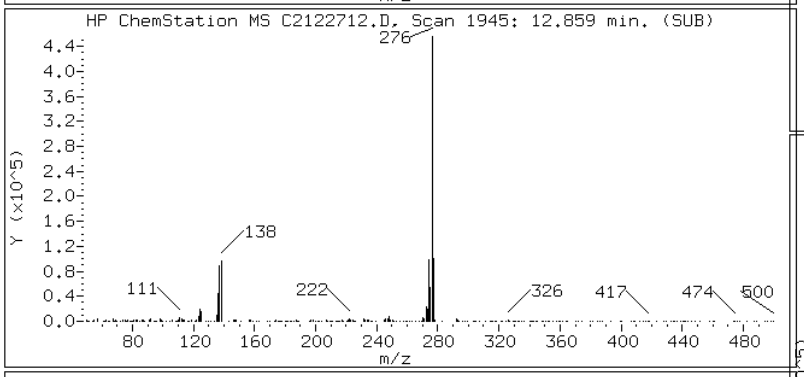
Date: 27-DEC-2012 10:38

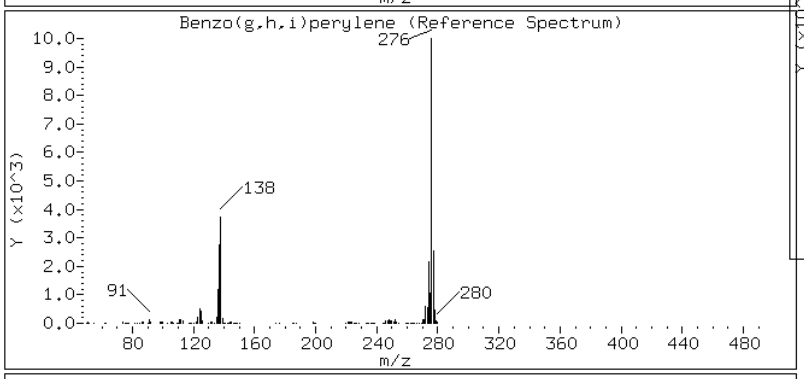
Client ID: CV0511D-CSD Instrument: TSMC5973.i

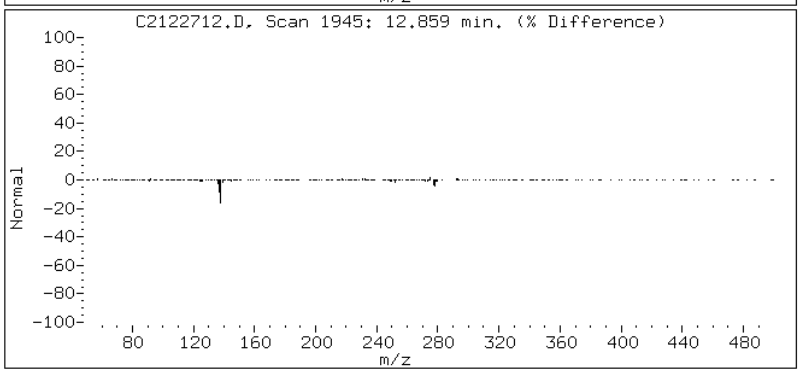
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

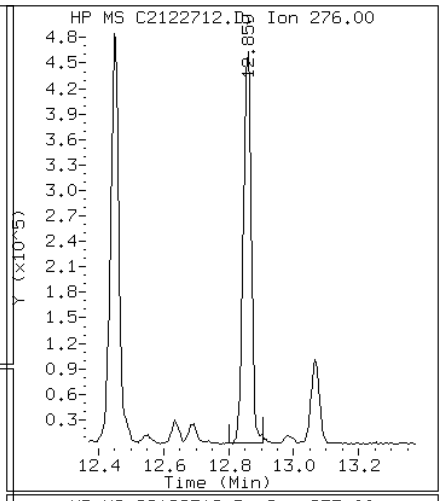
24 Benzo(g,h,i)perylene

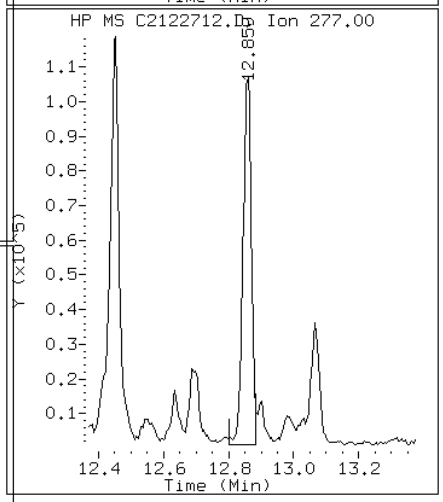












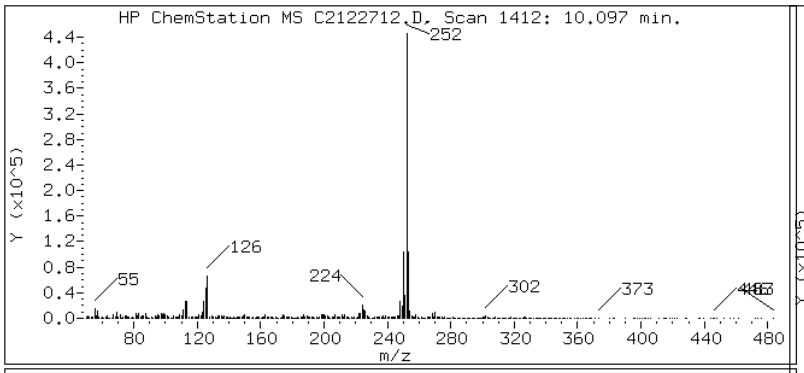
Data File: C2122712.D

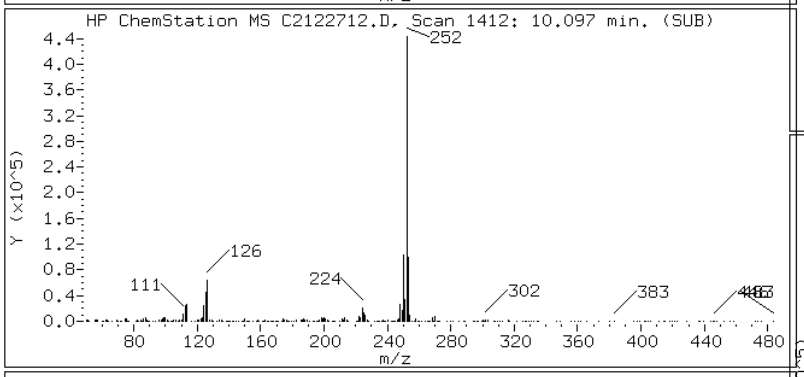
Date: 27-DEC-2012 10:38

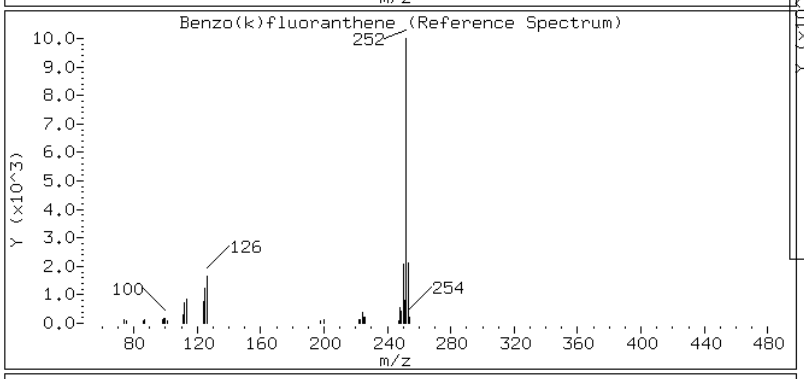
Client ID: CV0511D-CSD Instrument: TSMC5973.i

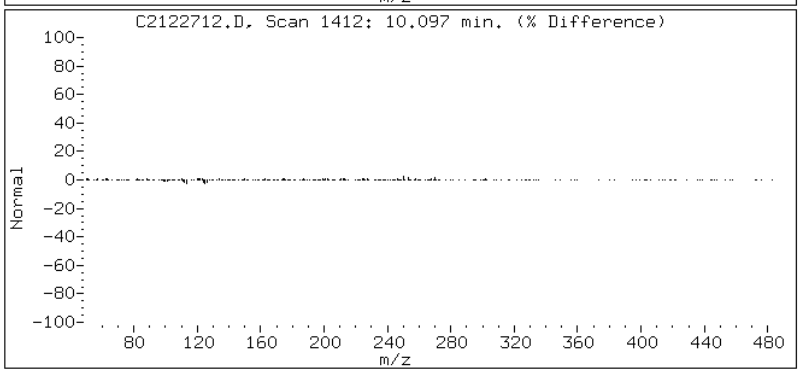
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

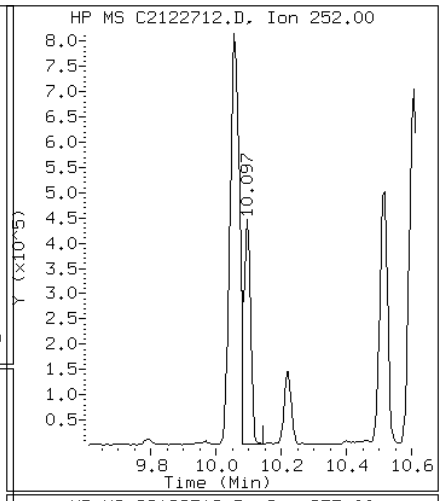
20 Benzo(k)fluoranthene

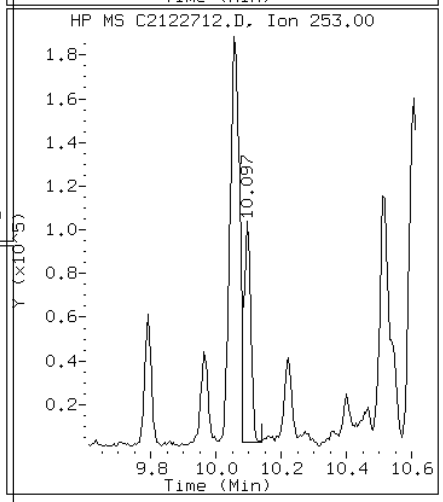












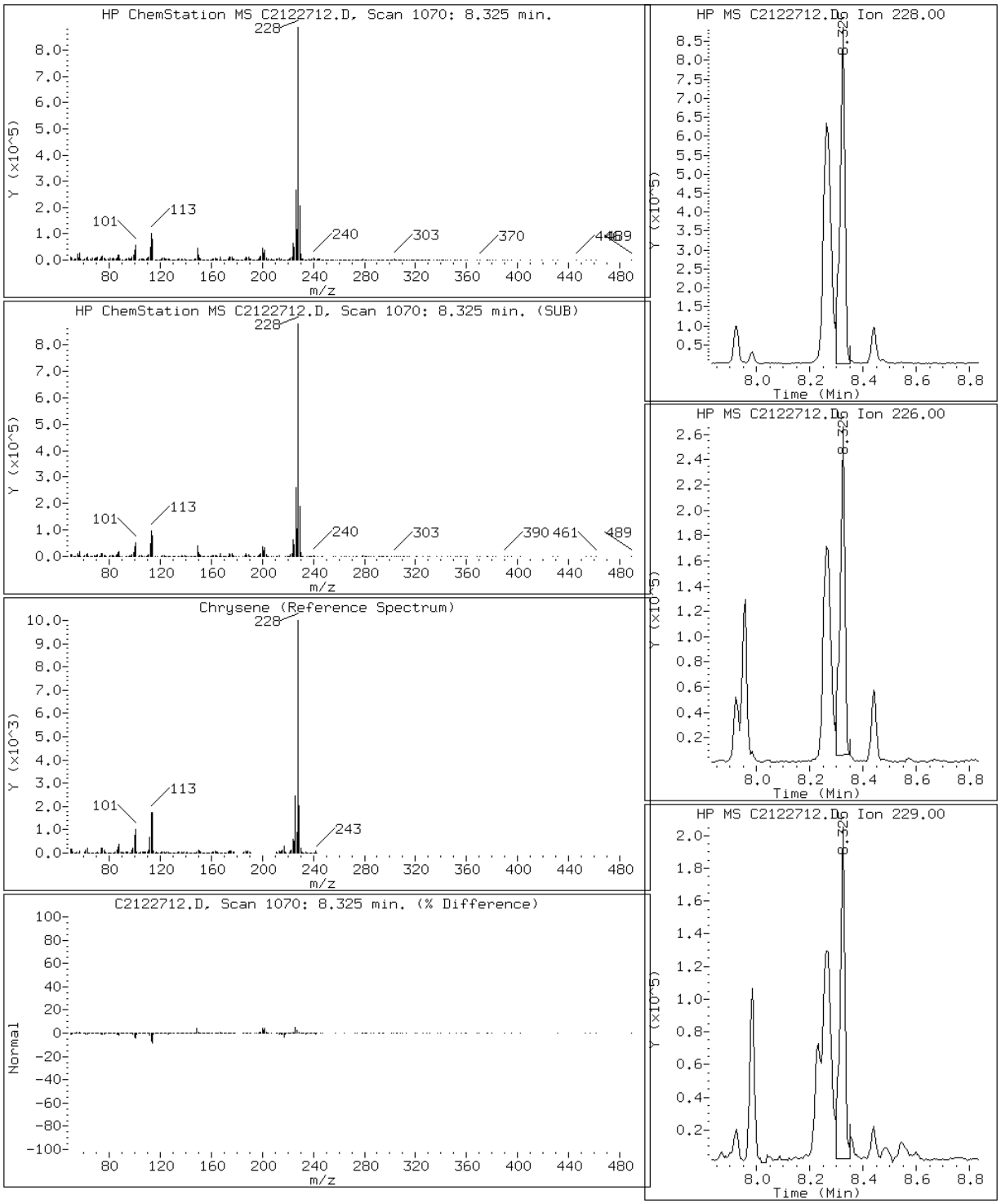
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

17 Chrysene



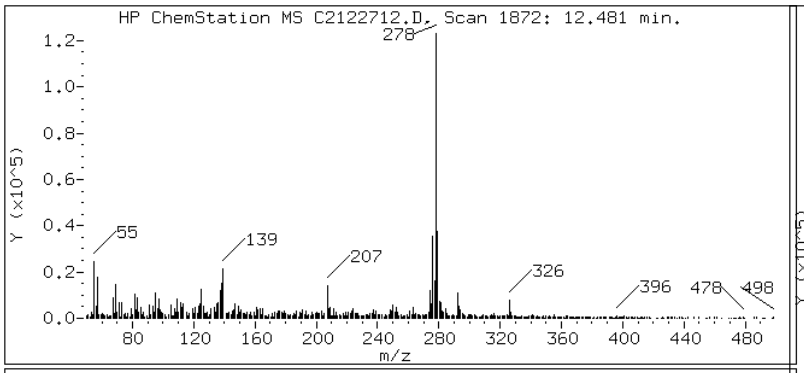
Data File: C2122712.D

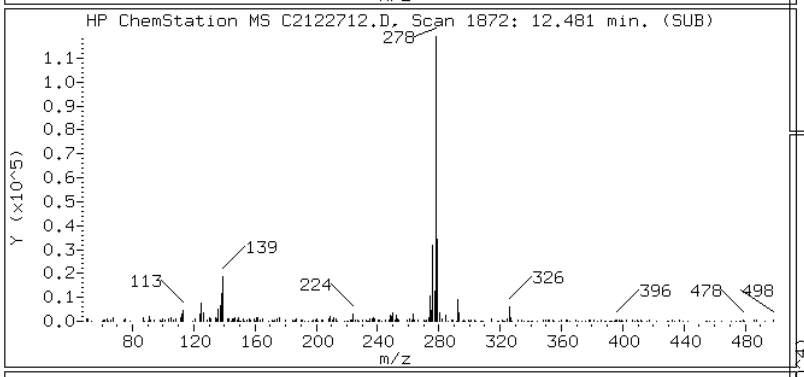
Date: 27-DEC-2012 10:38

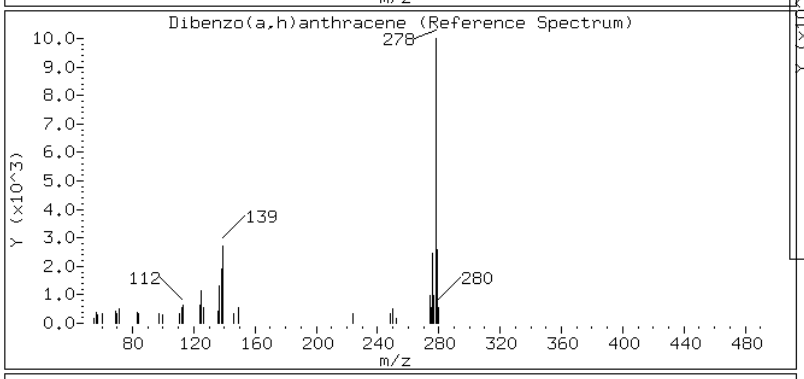
Client ID: CV0511D-CSD Instrument: TSMC5973.i

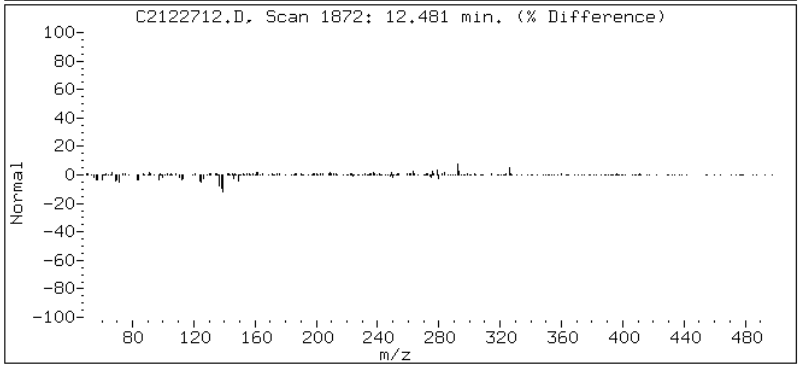
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

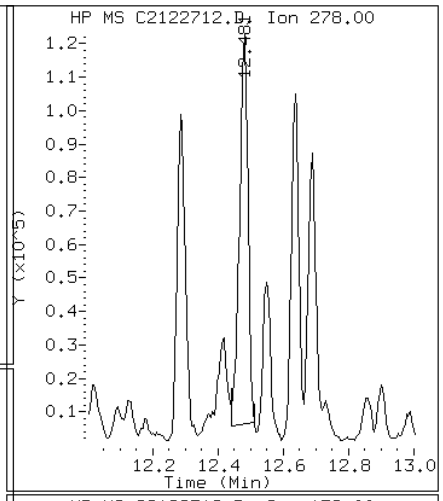
23 Dibenzo(a,h)anthracene

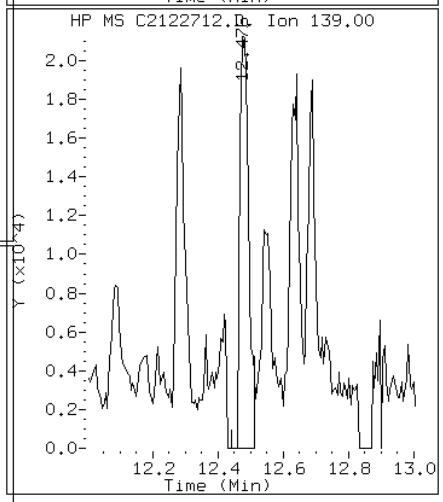












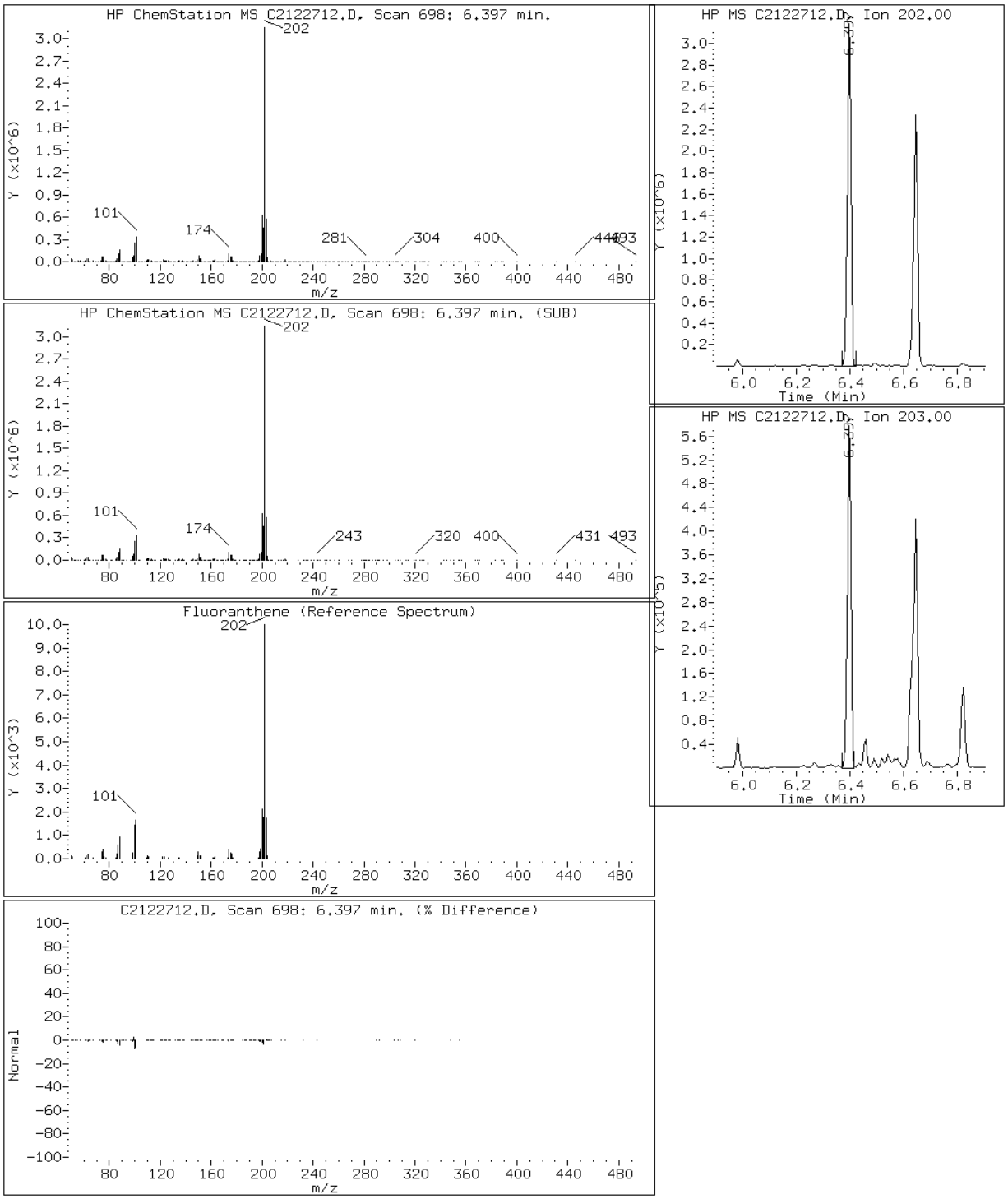
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

13 Fluoranthene



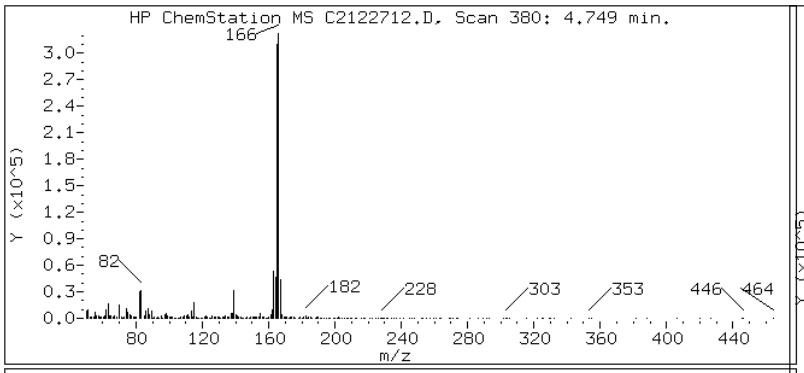
Data File: C2122712.D

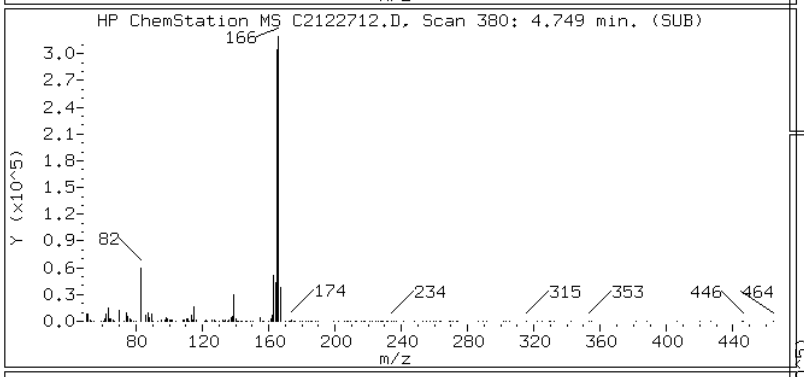
Date: 27-DEC-2012 10:38

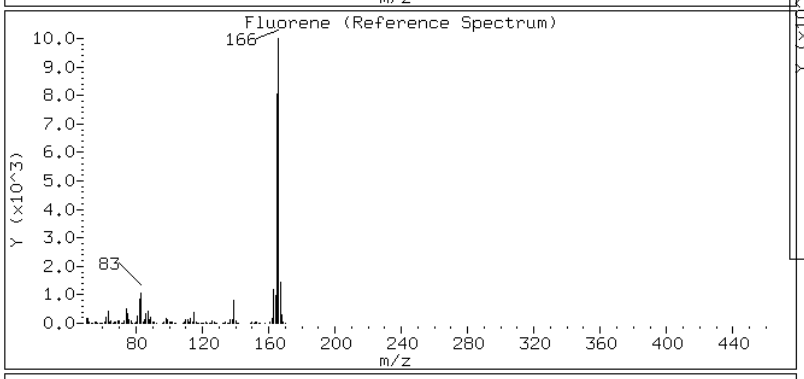
Client ID: CV0511D-CSD Instrument: TSMC5973.i

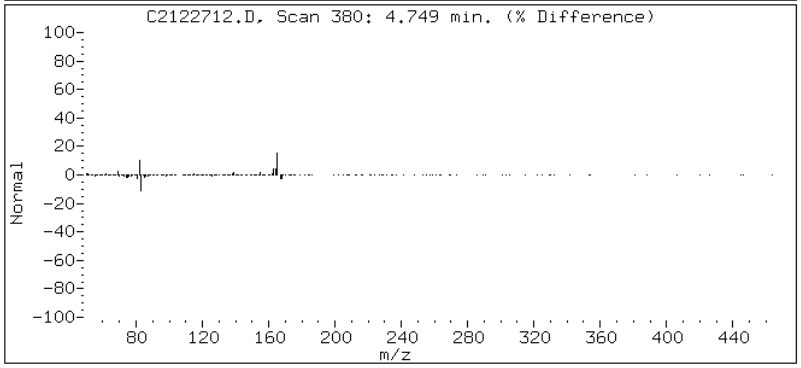
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

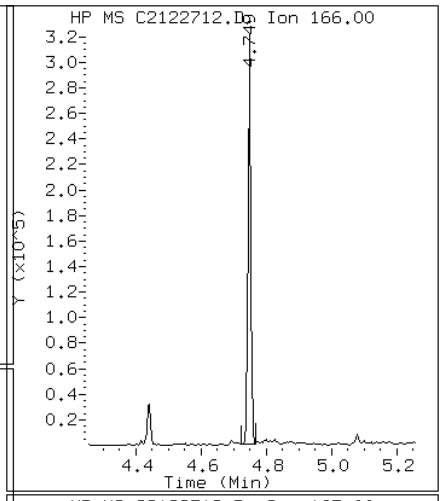
8 Fluorene

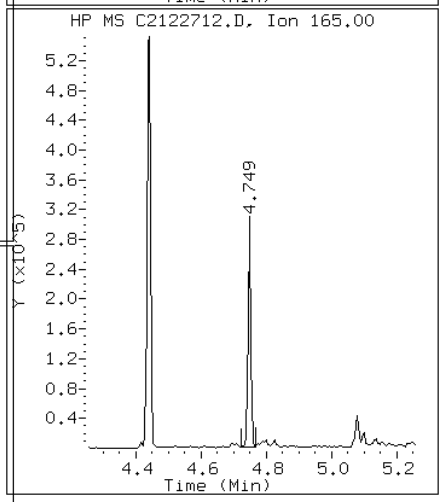












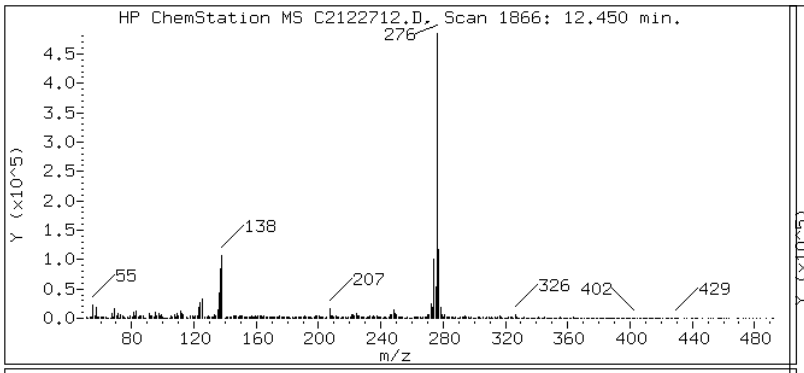
Data File: C2122712.D

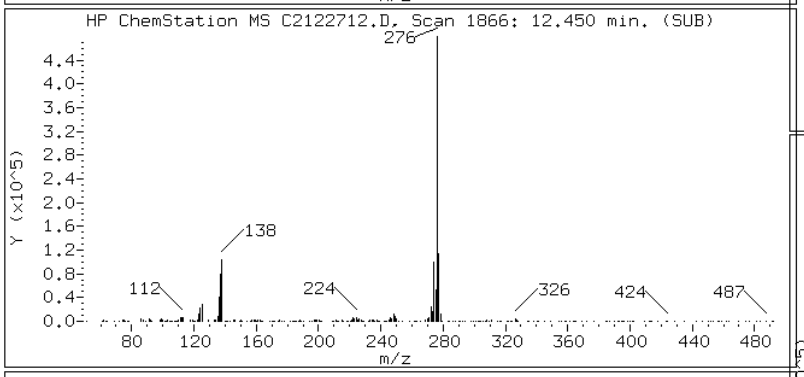
Date: 27-DEC-2012 10:38

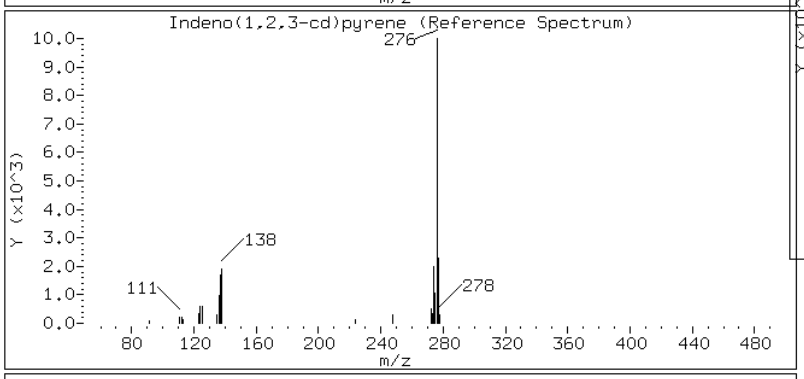
Client ID: CV0511D-CSD Instrument: TSMC5973.i

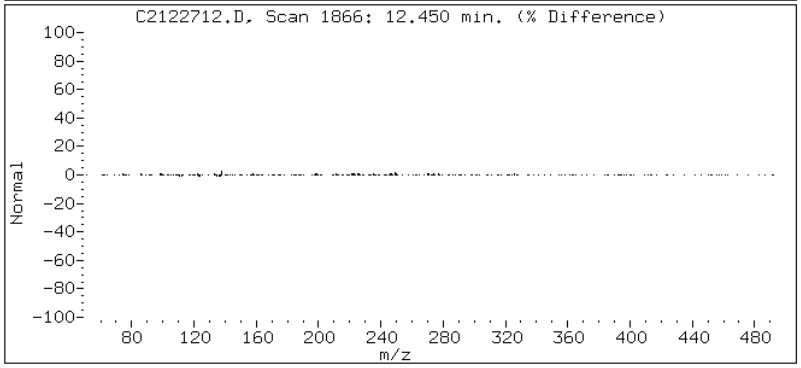
Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

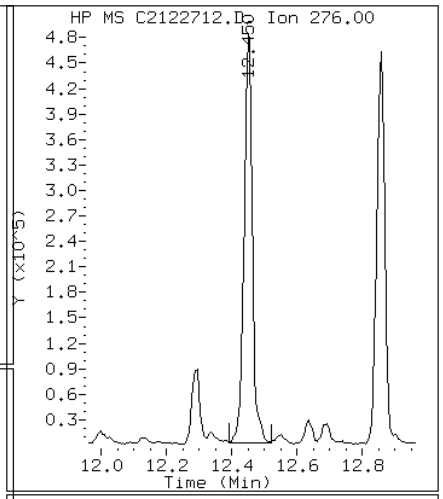
22 Indeno(1,2,3-cd)pyrene

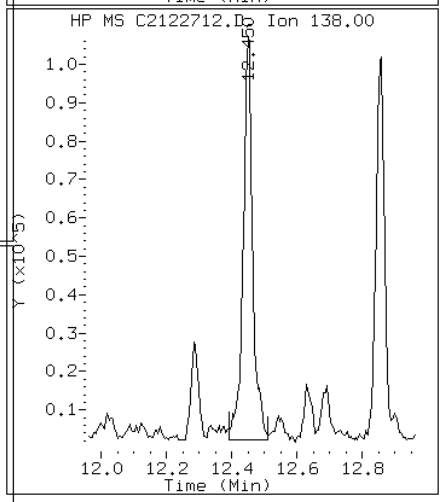












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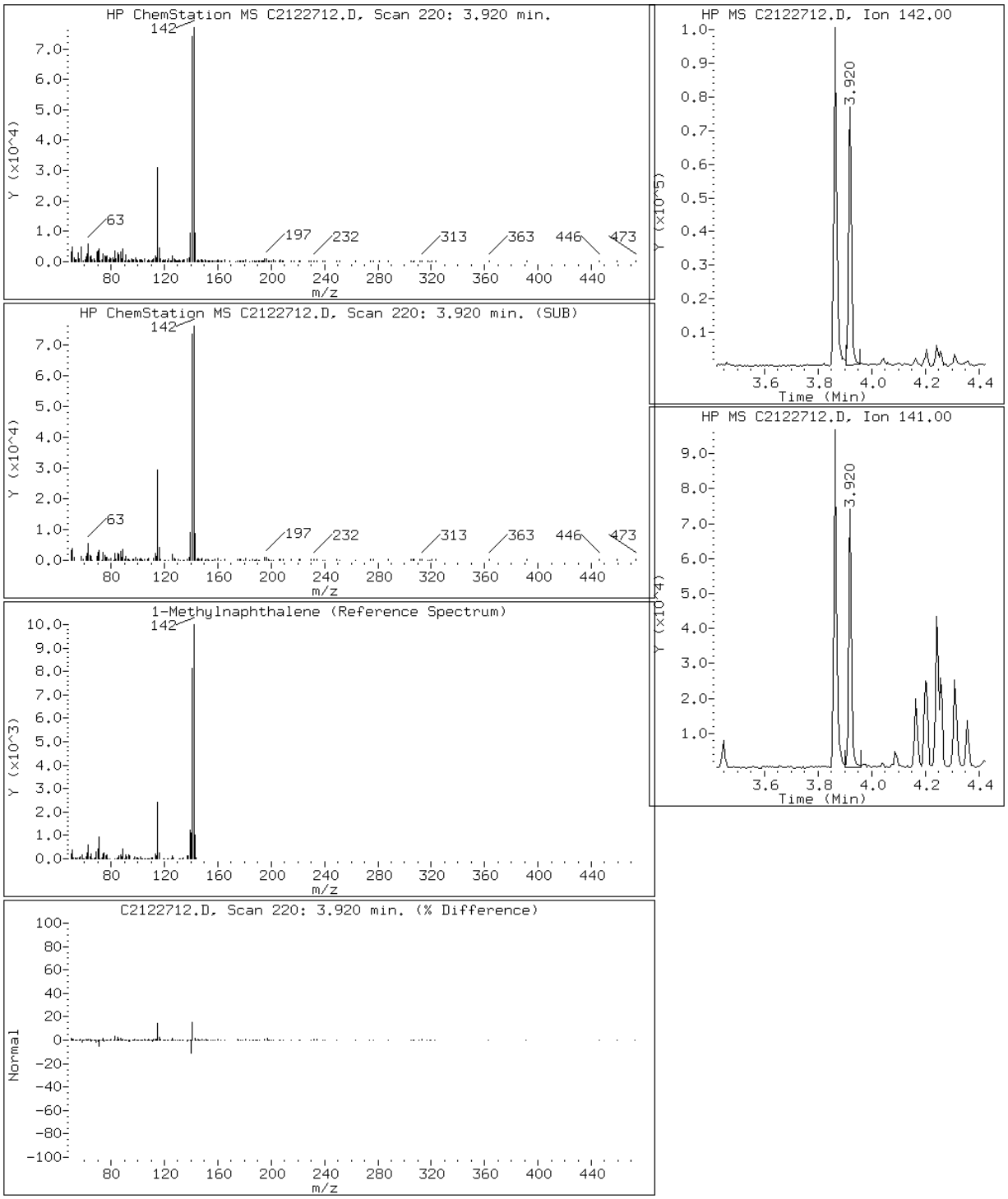
Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

4 1-Methylnaphthalene



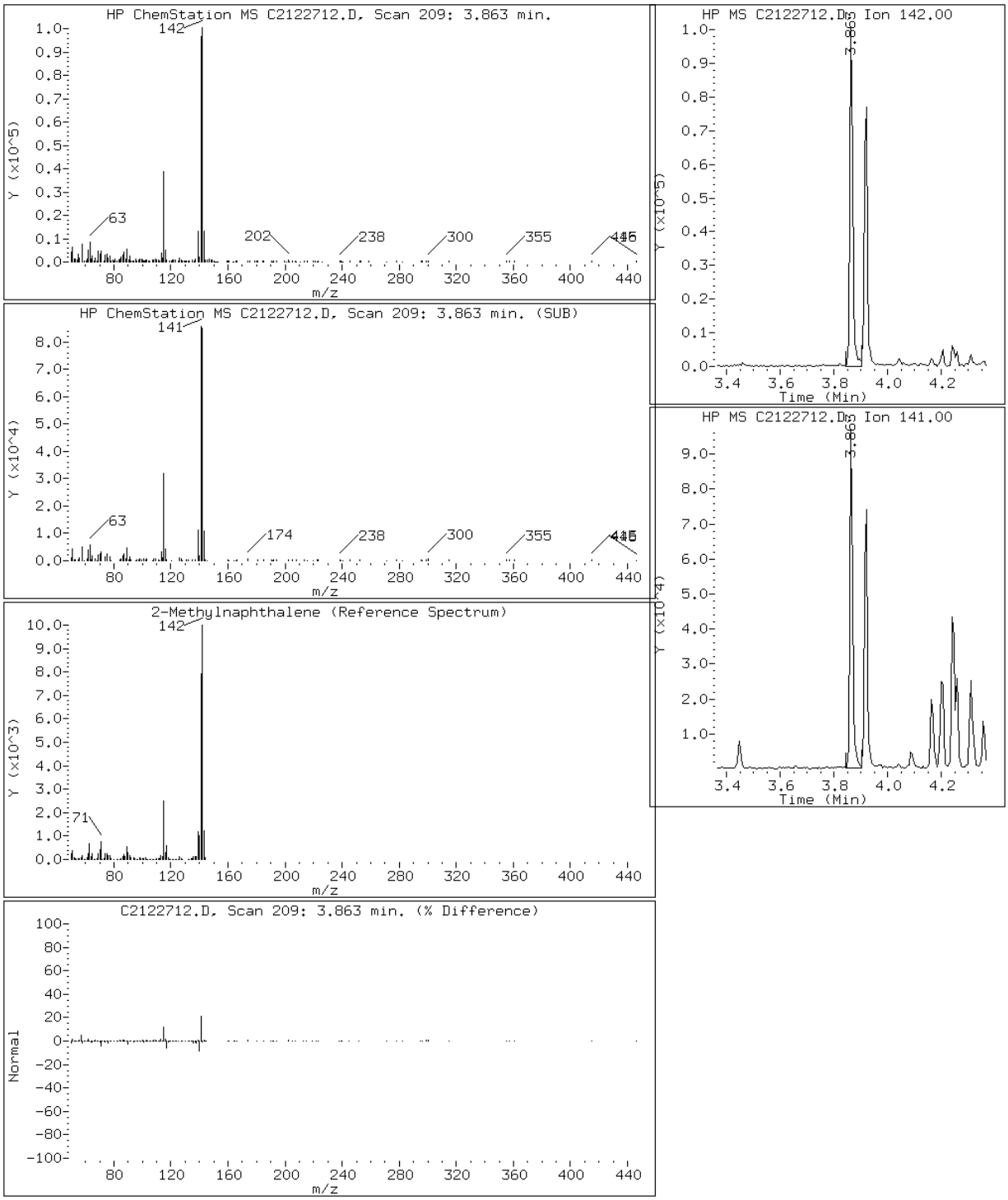
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

3 2-Methylnaphthalene



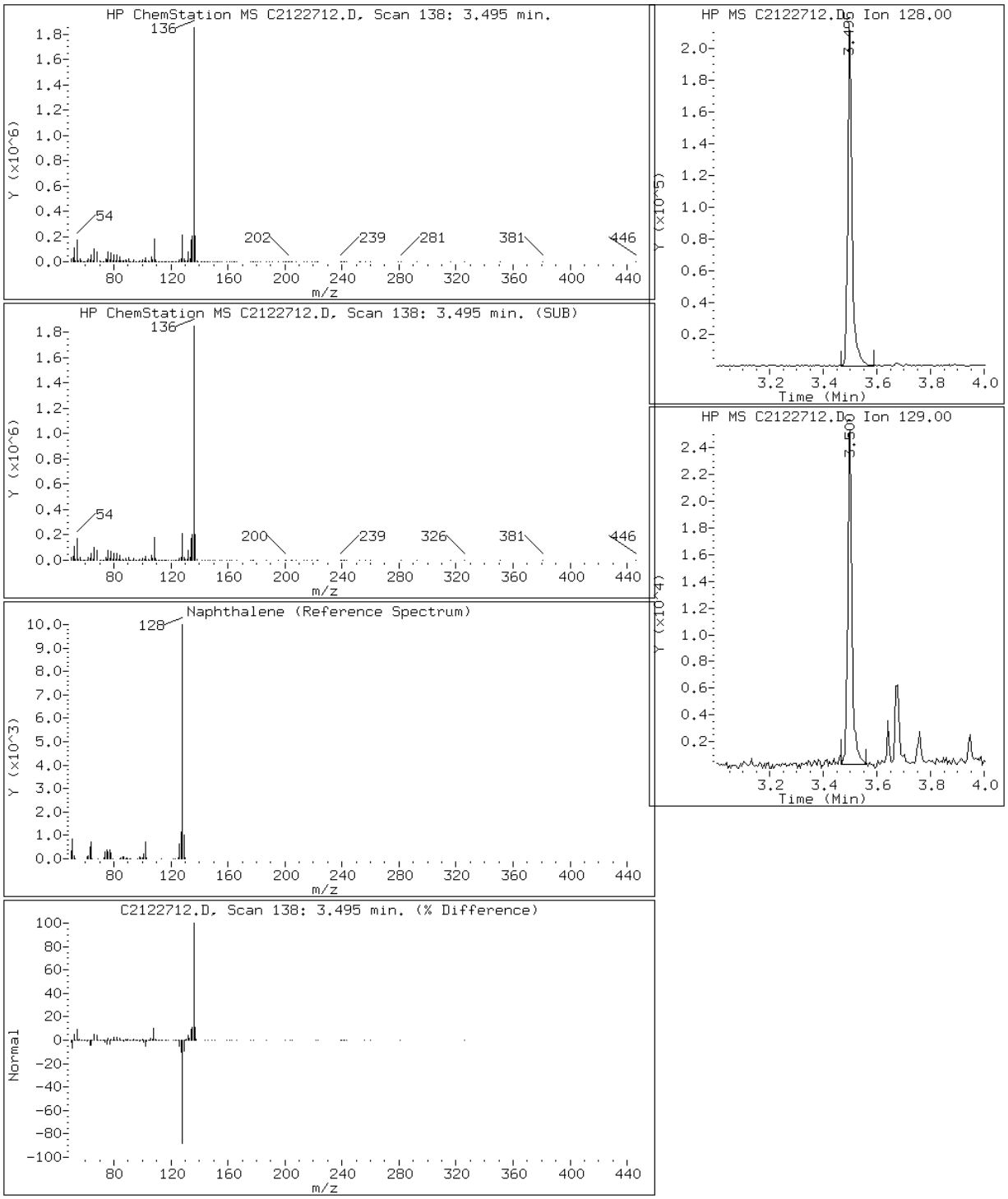
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

2 Naphthalene



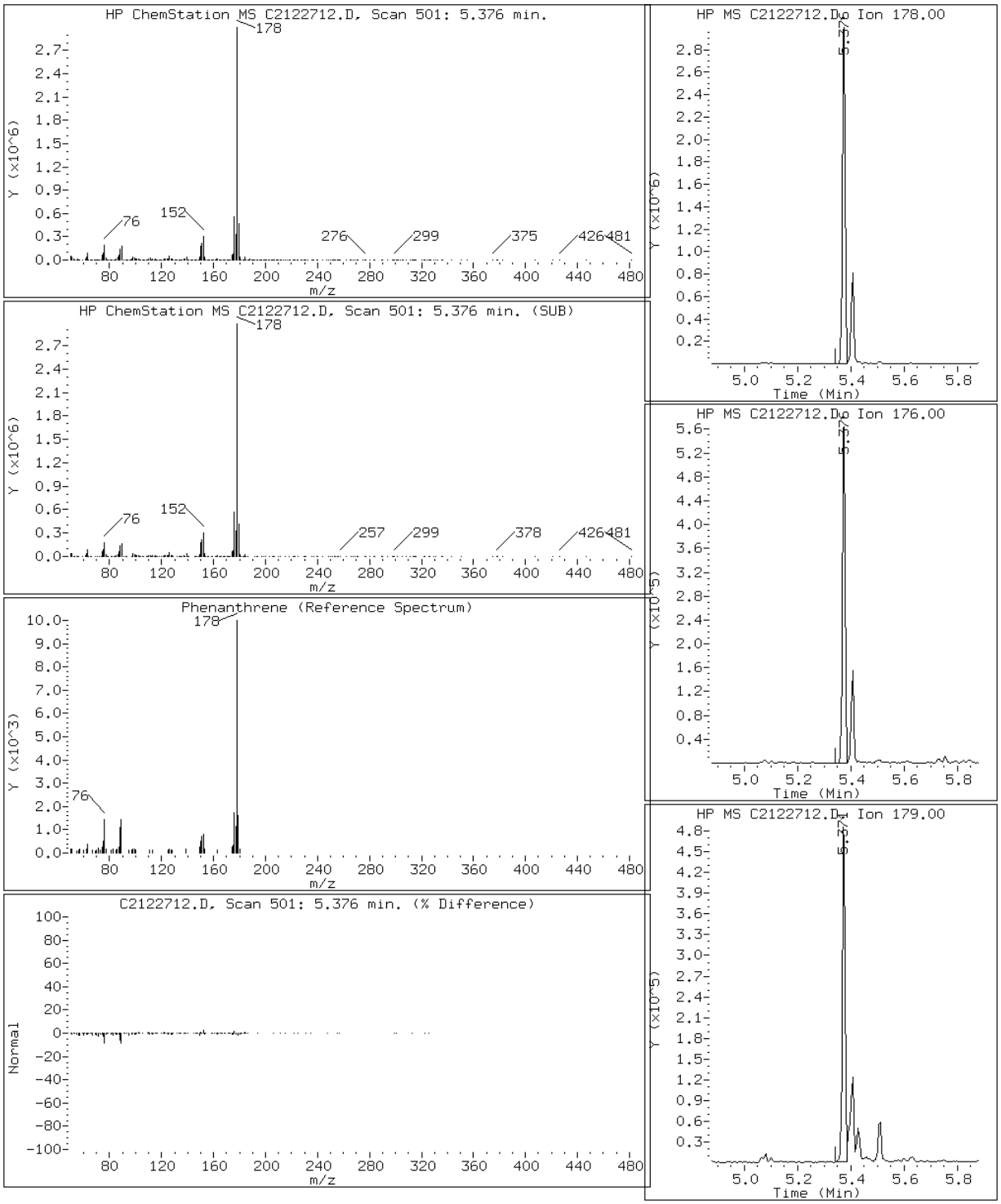
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

10 Phenanthrene



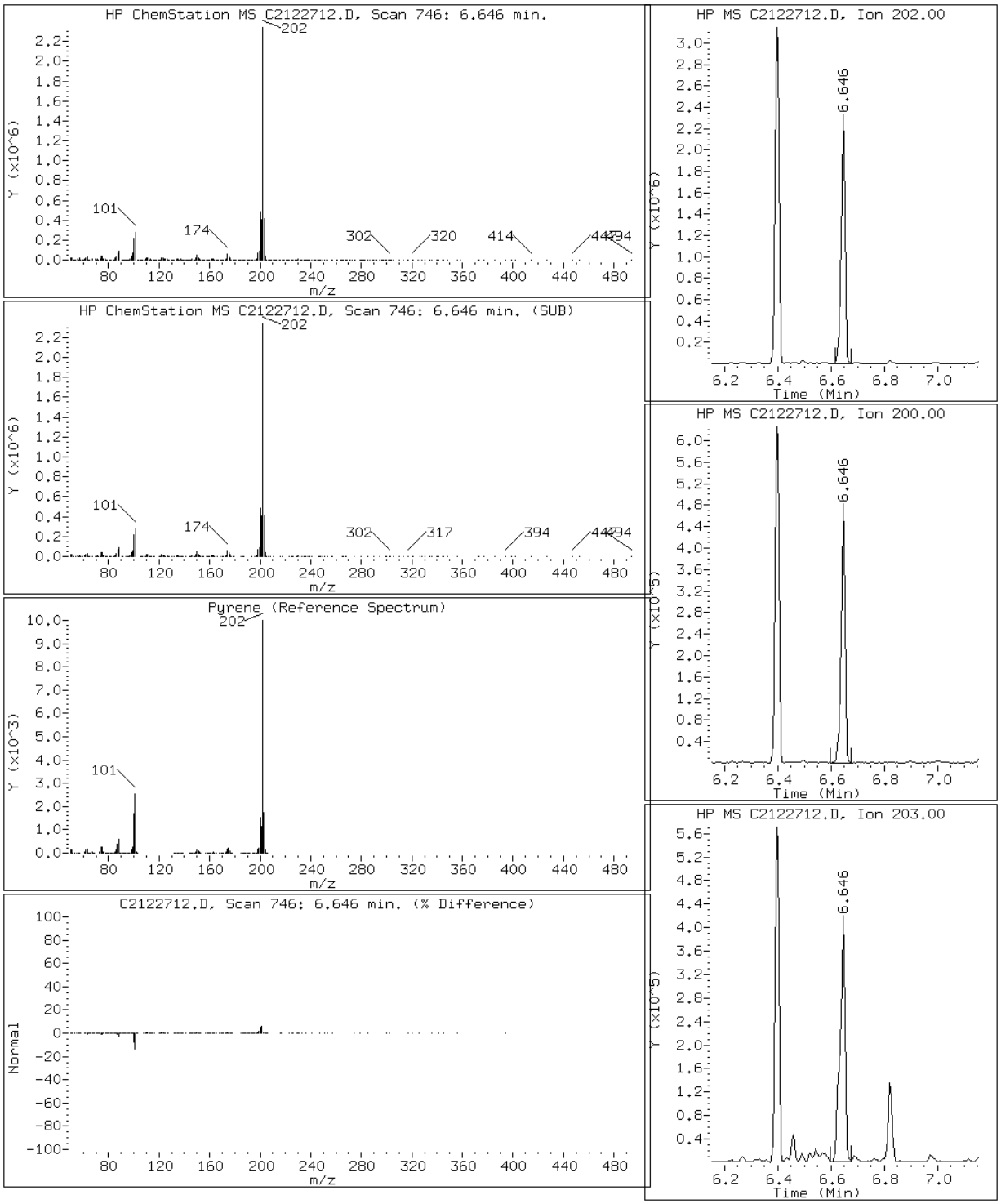
Data File: C2122712.D

Date: 27-DEC-2012 10:38

Client ID: CV0511D-CSD Instrument: TSMC5973.i

Sample Info: 680-85785-A-37-A~98122~5~8270DLL Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511E-CS | Lab Sample ID: 680-85785-38

Matrix: Solid | Lab File ID: C2122713.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:25

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.73(g) | Date Analyzed: 12/27/2012 10:57

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 2

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

% Moisture: 26.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	29		18	1.5
208-96-8	Acenaphthylene	29		18	1.4
120-12-7	Anthracene	110		18	1.7
56-55-3	Benzo[a]anthracene	490		18	1.6
50-32-8	Benzo[a]pyrene	600		18	1.8
205-99-2	Benzo[b]fluoranthene	810		18	2.5
191-24-2	Benzo[g,h,i]perylene	440		18	2.9
207-08-9	Benzo[k]fluoranthene	300		18	1.7
218-01-9	Chrysene	580		18	2.0
53-70-3	Dibenz(a,h)anthracene	120		18	1.7
206-44-0	Fluoranthene	850		18	1.6
86-73-7	Fluorene	28		18	1.4
193-39-5	Indeno[1,2,3-cd]pyrene	460		18	2.9
90-12-0	1-Methylnaphthalene	15	J	18	1.4
91-57-6	2-Methylnaphthalene	19		18	1.4
91-20-3	Naphthalene	18		18	1.4
85-01-8	Phenanthrene	400		18	1.2
129-00-0	Pyrene	700		18	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	83		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122713.D
Lab Smp Id: 680-85785-A-38-A Client Smp ID: CV0511E-CS
Inj Date : 27-DEC-2012 10:57
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-38-A~98122~2~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 7
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.730	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.277	3.282	(0.941)	78958	1.13856	74	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	6444933	40.0000		
2 Naphthalene	128	3.495	3.500	(1.003)	31886	0.20245	13(a)	
3 2-Methylnaphthalene	142	3.863	3.863	(1.109)	25268	0.21140	14	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	20195	0.17224	11(a)	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3651982	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	63729	0.32475	21	
7 Acenaphthene	154	4.458	4.459	(1.003)	33780	0.32902	21(M)	SP
8 Fluorene	166	4.749	4.754	(1.069)	43445	0.31698	21	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5951410	40.0000		
10 Phenanthrene	178	5.371	5.376	(1.003)	759101	4.57186	300	
11 Anthracene	178	5.407	5.412	(1.010)	214309	1.19027	77	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	180822	1.65693	110	
13 Fluoranthene	202	6.397	6.402	(1.194)	2147290	9.67406	630	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.299	8.299	(1.000)	6549869	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	1939041	7.90196	510	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	1231600	5.48960	360	
17 Chrysene	228	8.324	8.330	(1.003)	1283134	6.61792	430	
* 18 Perylene-d12	264	10.739	10.734	(1.000)	7937095	40.0000		
19 Benzo(b)fluoranthene	252	10.060	10.061	(0.937)	2312657	9.14653	600	
20 Benzo(k)fluoranthene	252	10.102	10.107	(0.941)	839630	3.41930	220	
21 Benzo(a)pyrene	252	10.610	10.610	(0.988)	1511458	6.74120	440	
22 Indeno(1,2,3-cd)pyrene	276	12.465	12.460	(1.161)	1238829	5.16811	340	
23 Dibenzo(a,h)anthracene	278	12.491	12.501	(1.163)	313341	1.35312	88	
24 Benzo(g,h,i)perylene	276	12.874	12.869	(1.199)	1170593	4.97633	320	

QC Flag Legend

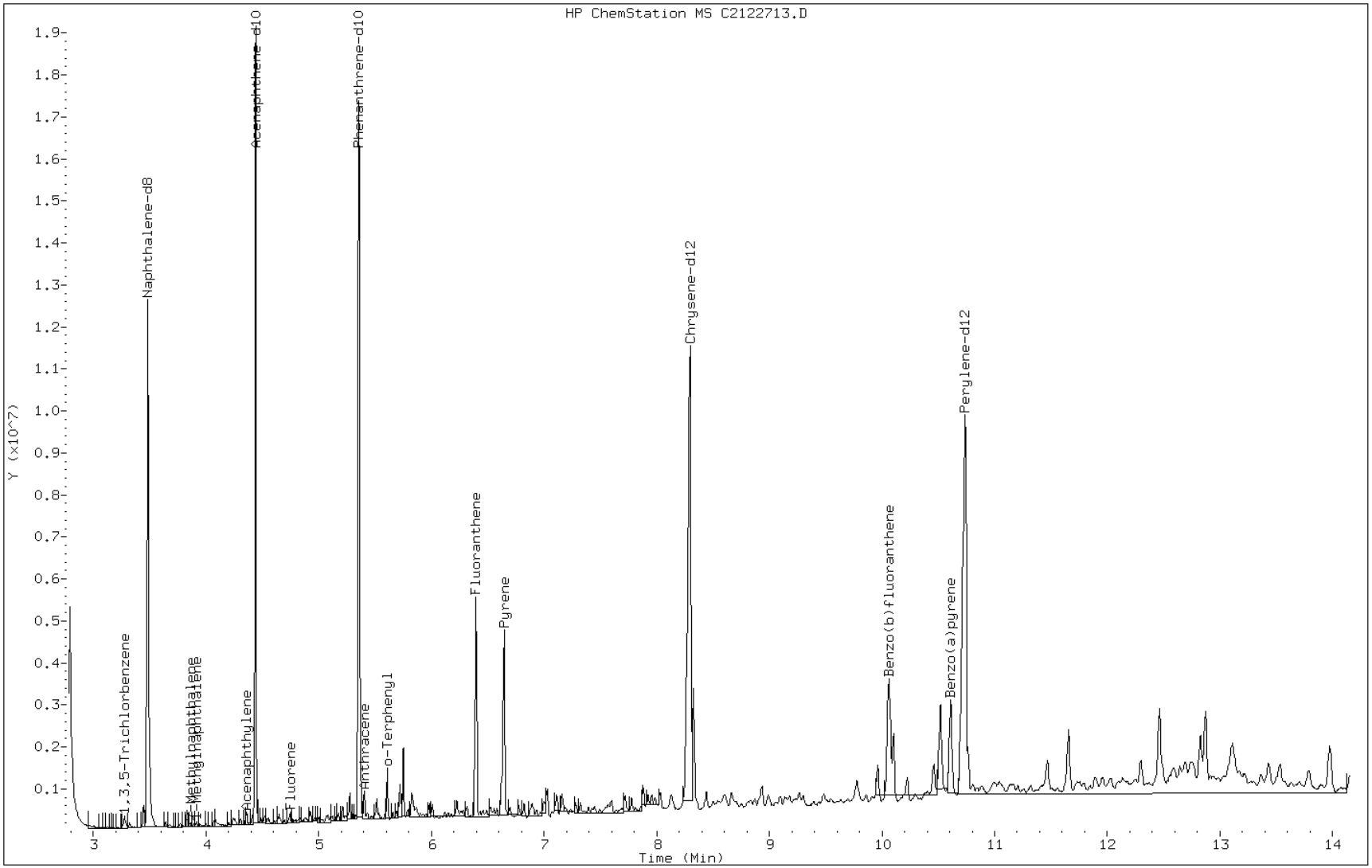
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW



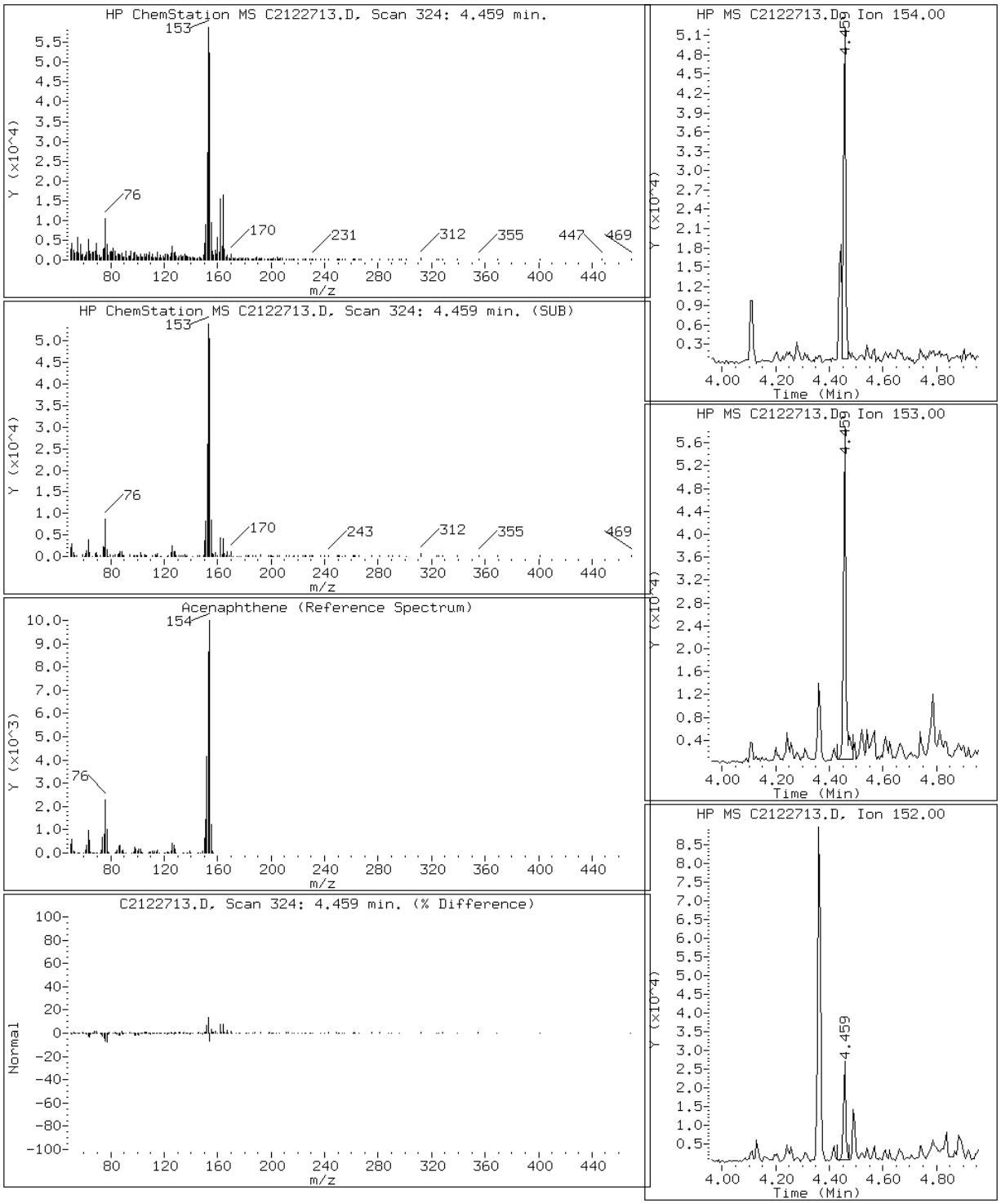
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

7 Acenaphthene



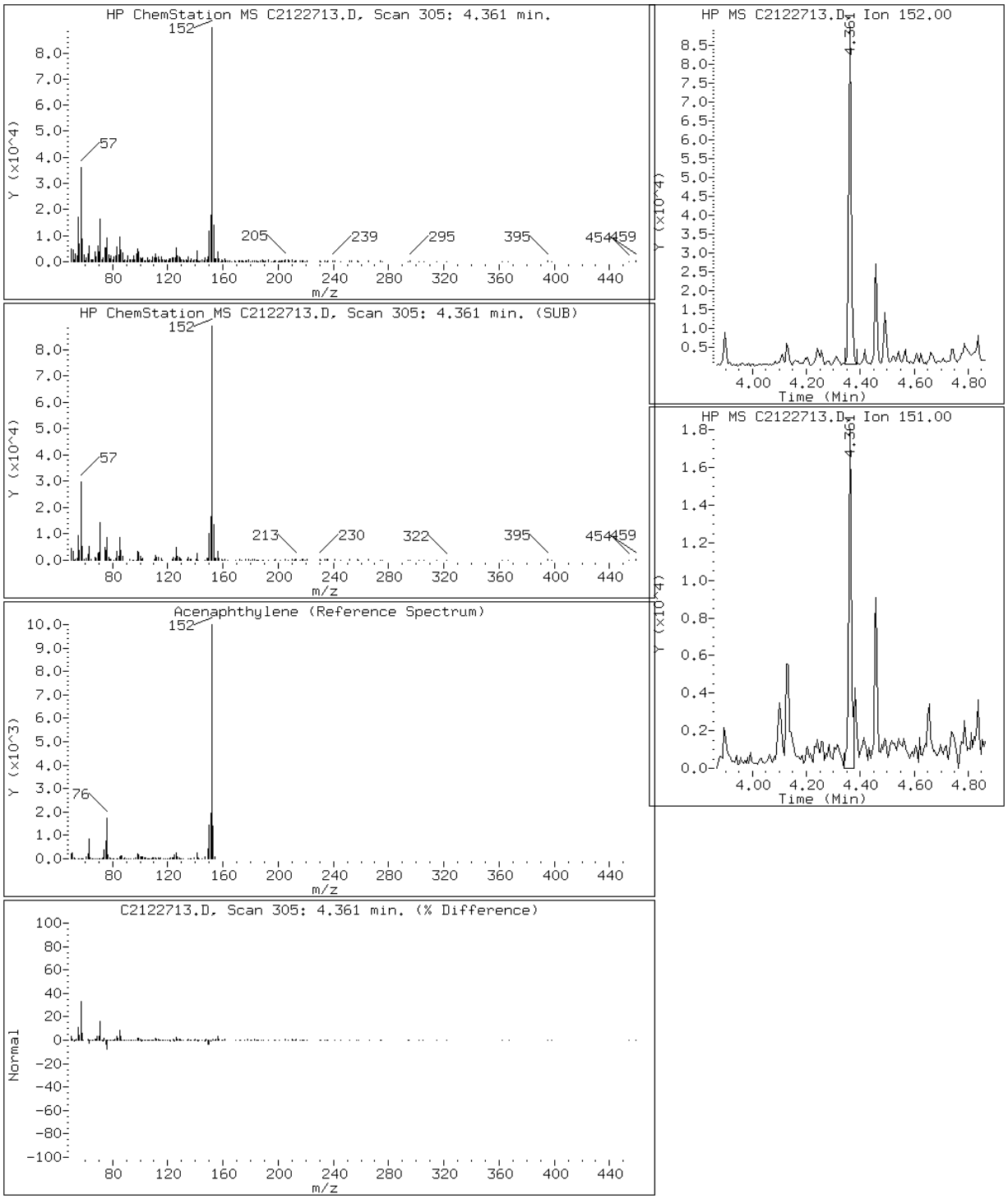
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

6 Acenaphthylene



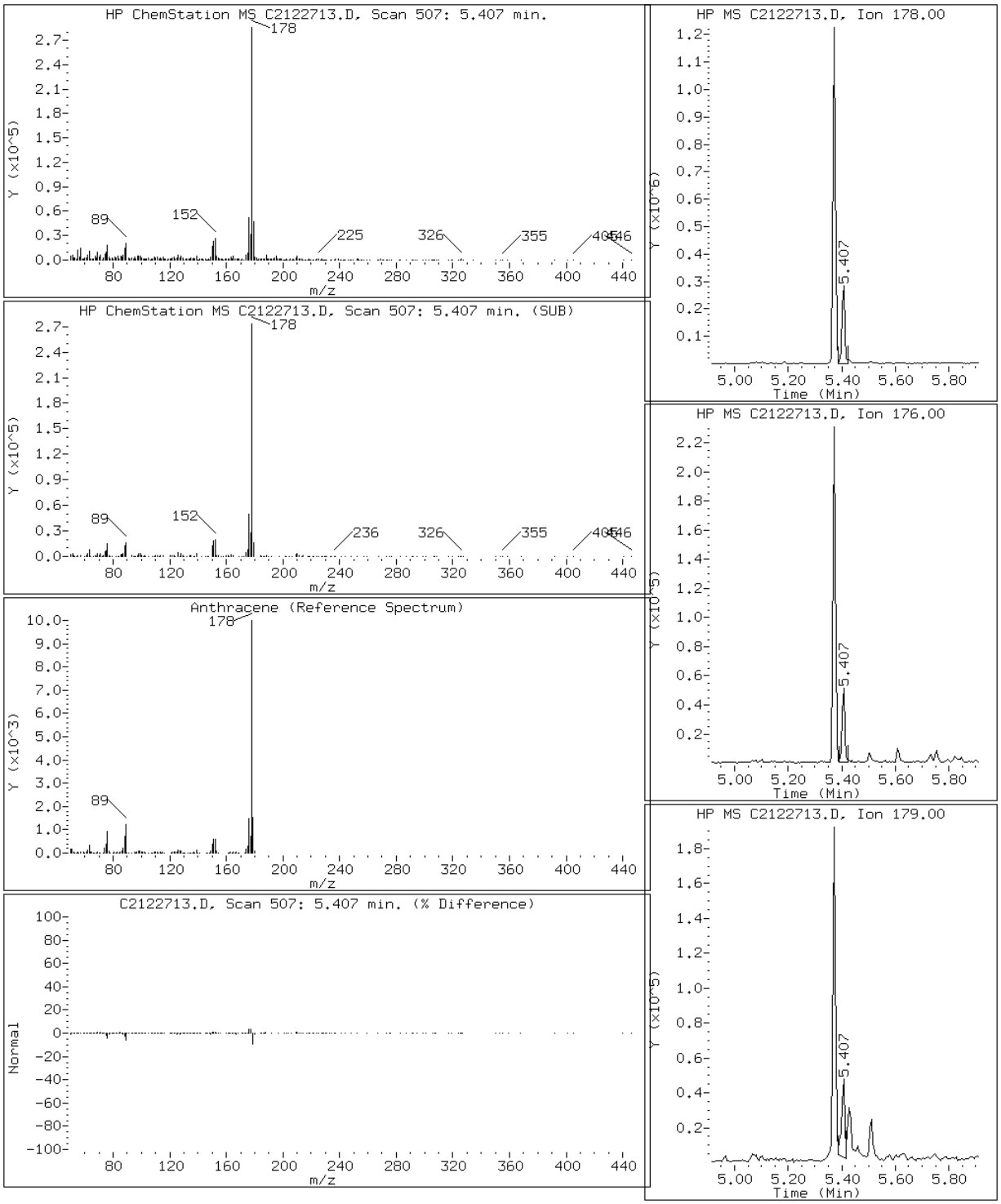
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

11 Anthracene



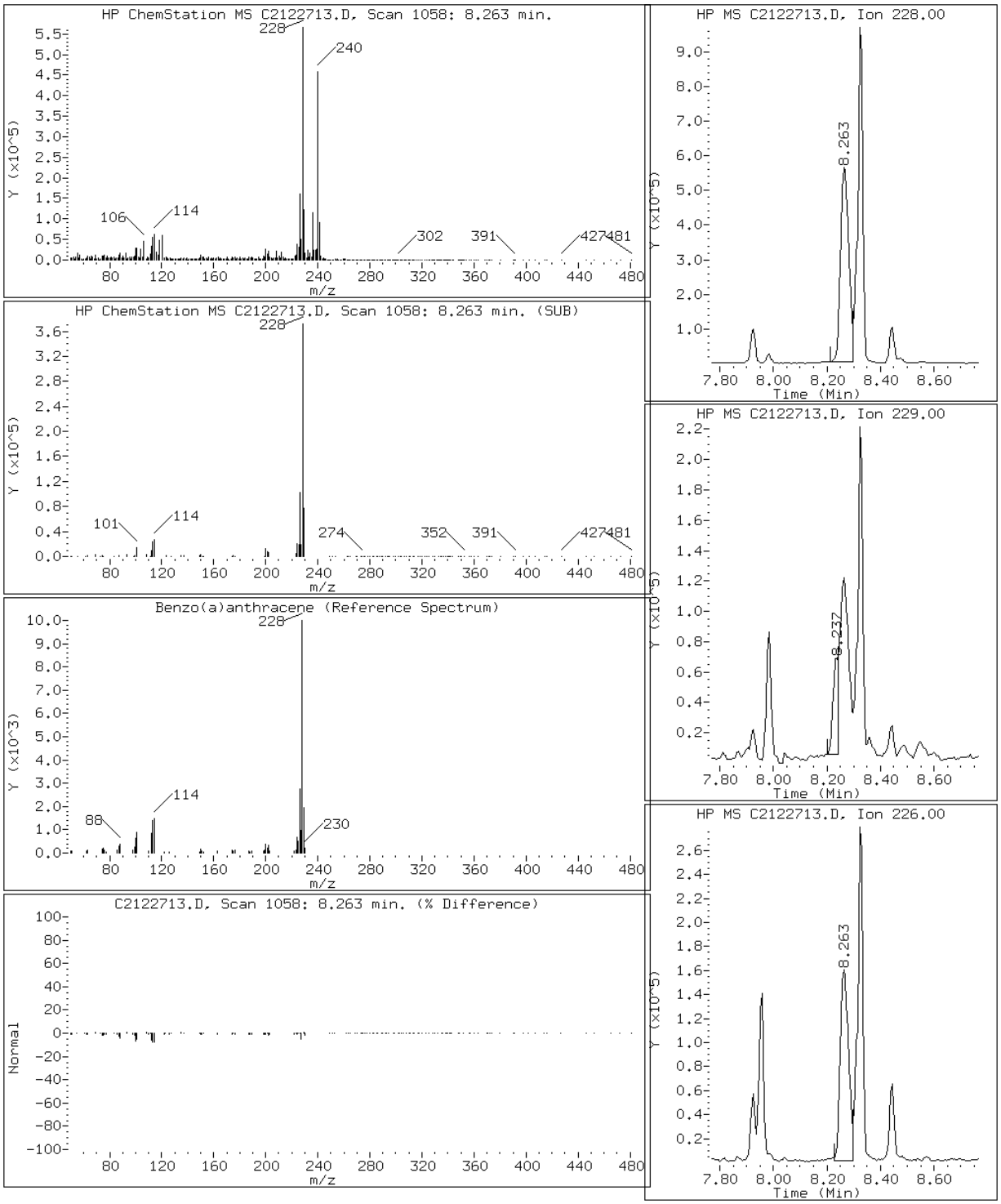
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

16 Benzo(a)anthracene



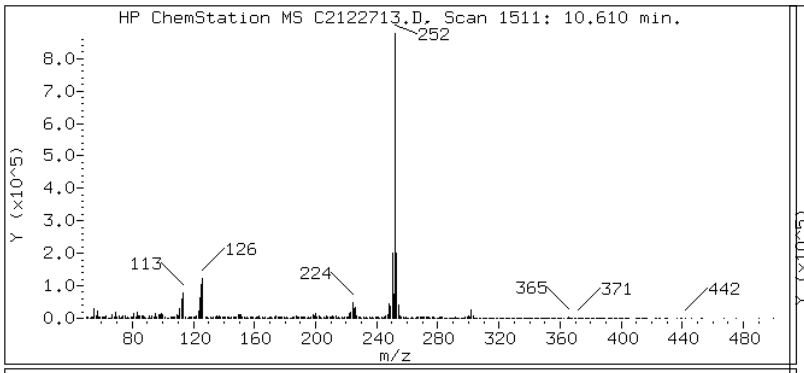
Data File: C2122713.D

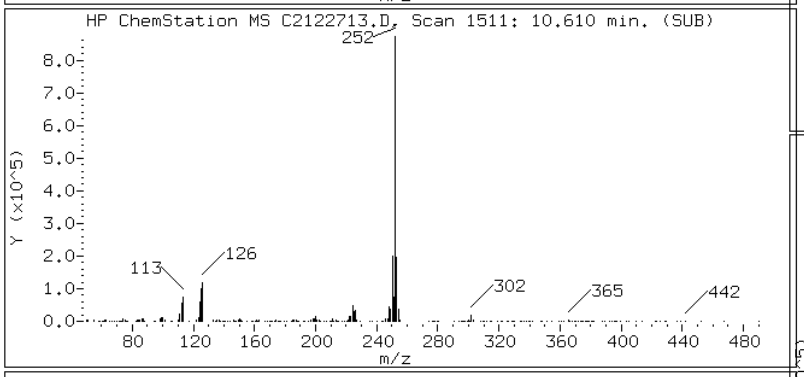
Date: 27-DEC-2012 10:57

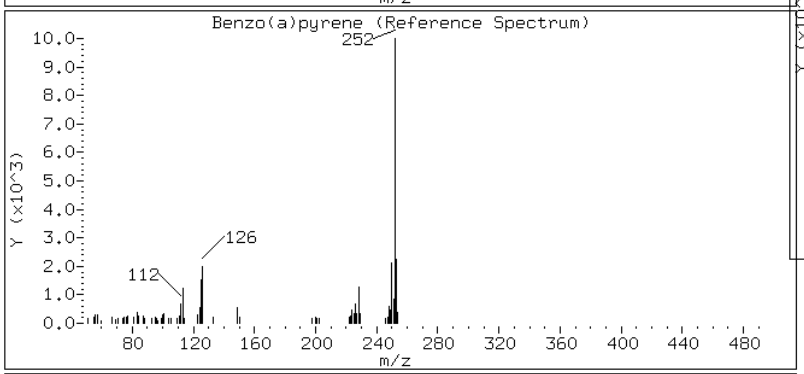
Client ID: CV0511E-CS Instrument: TSMC5973.i

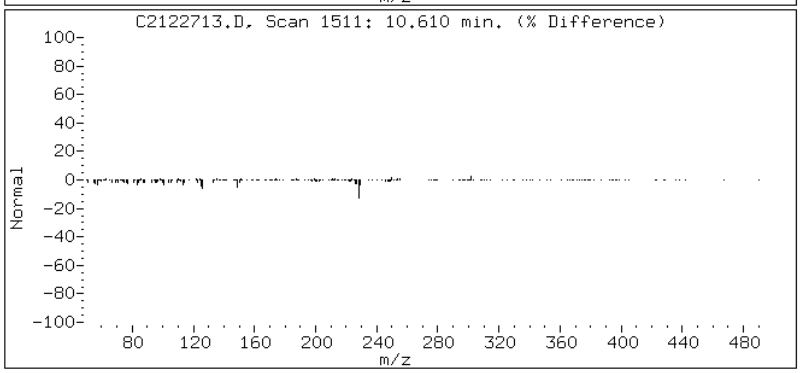
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

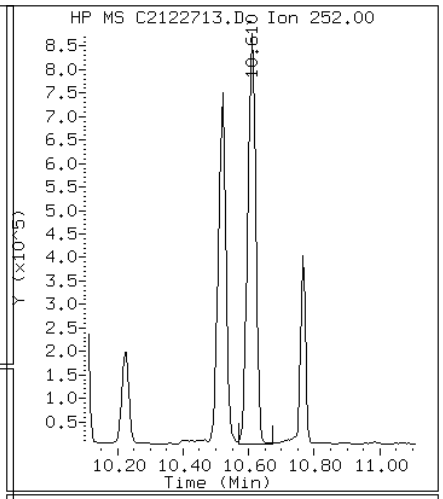
21 Benzo(a)pyrene

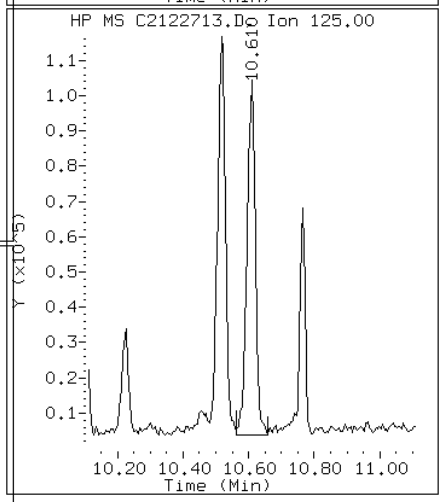












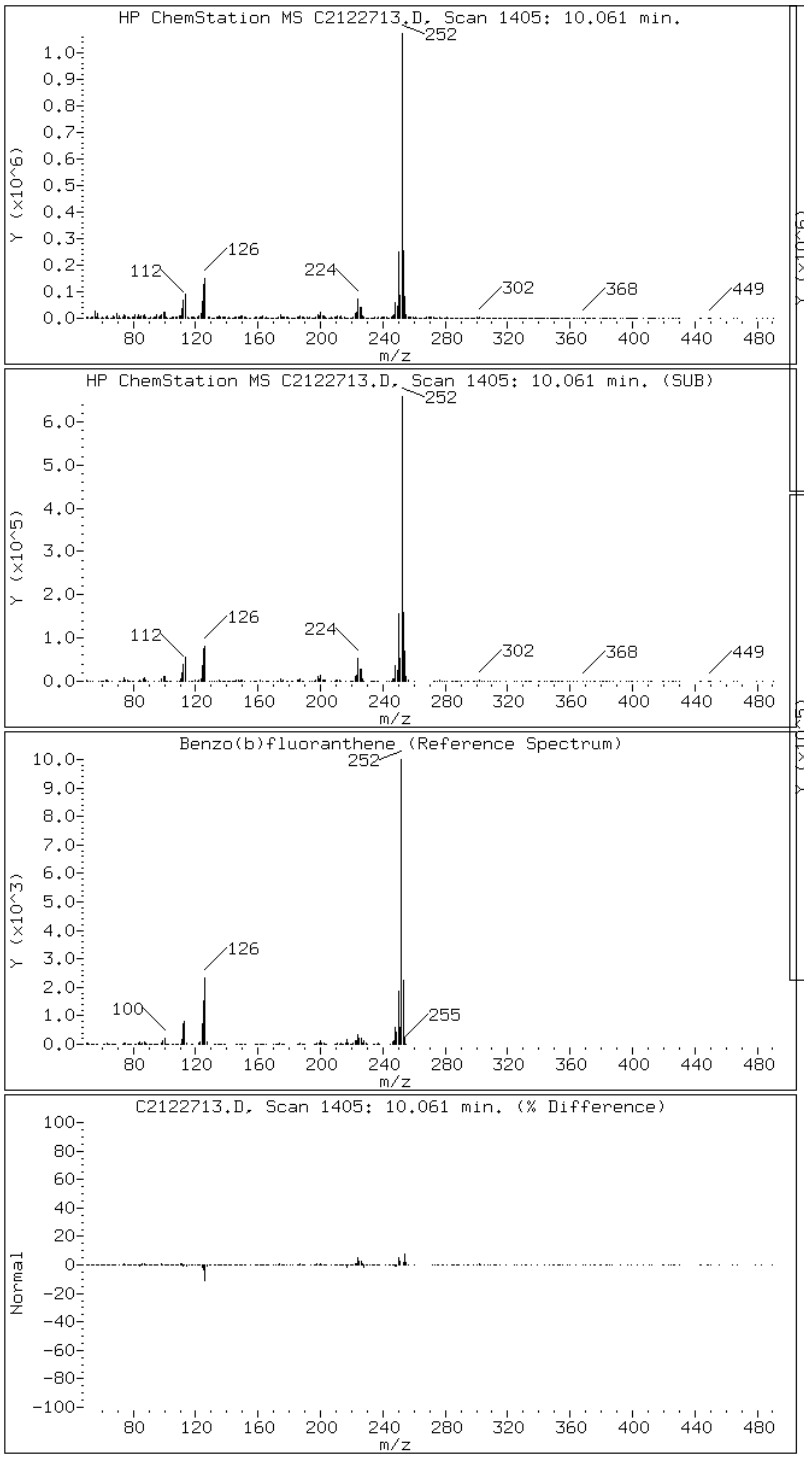
Data File: C2122713.D

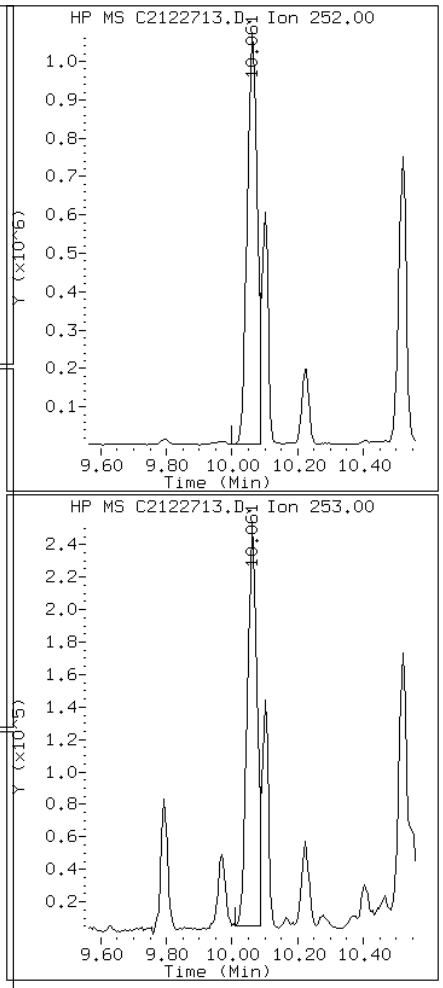
Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

19 Benzo(b)fluoranthene





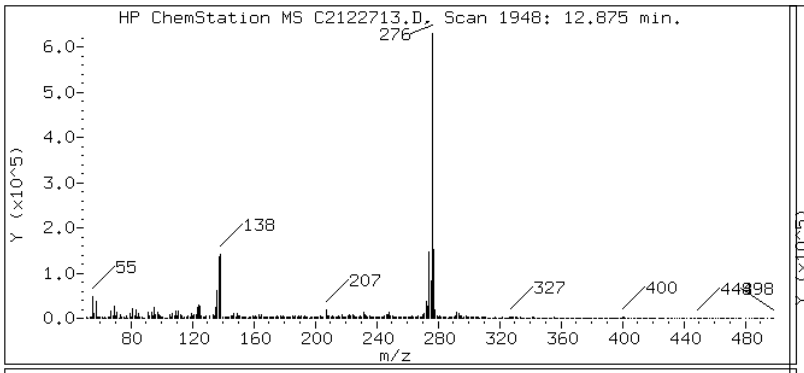
Data File: C2122713.D

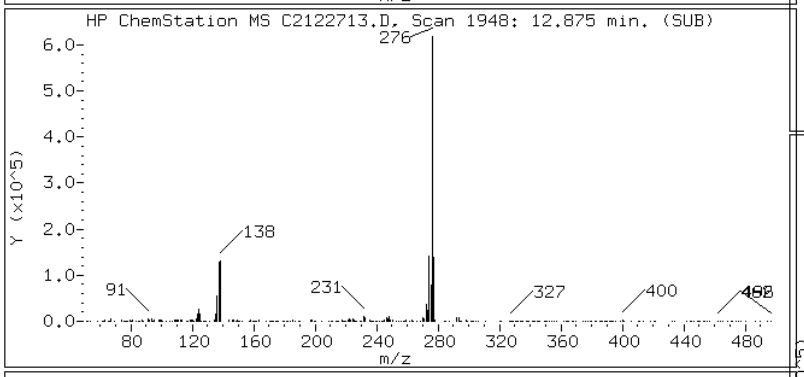
Date: 27-DEC-2012 10:57

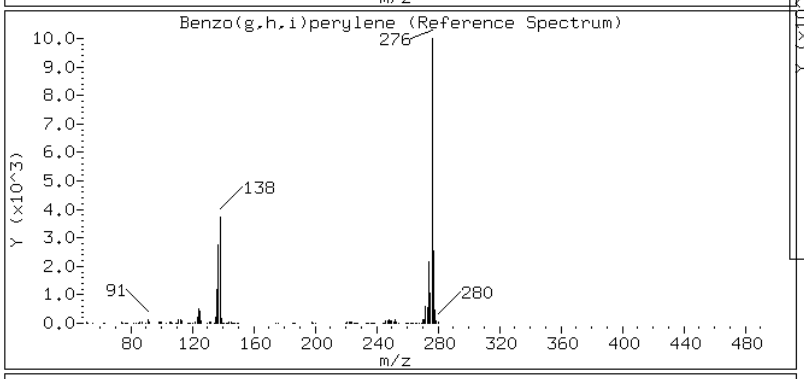
Client ID: CV0511E-CS Instrument: TSMC5973.i

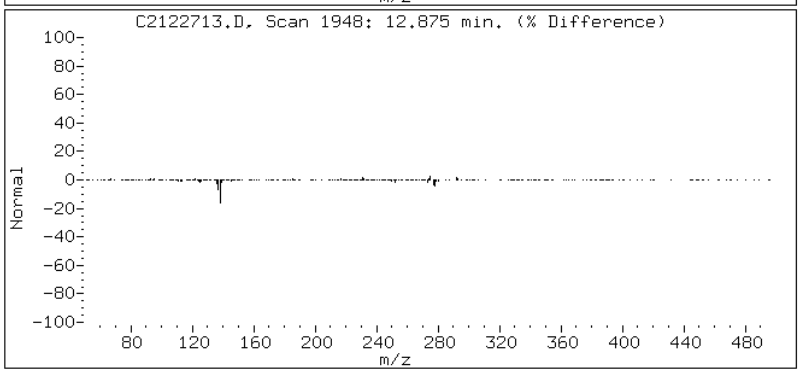
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

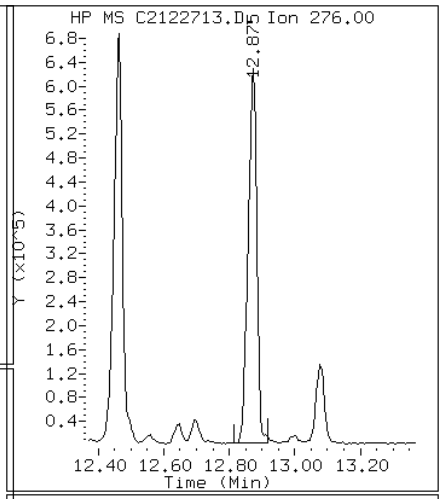
24 Benzo(g,h,i)perylene

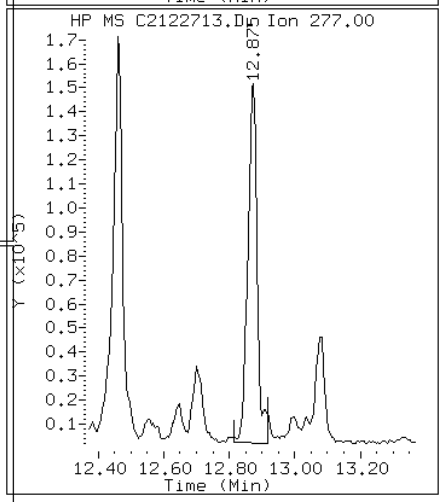












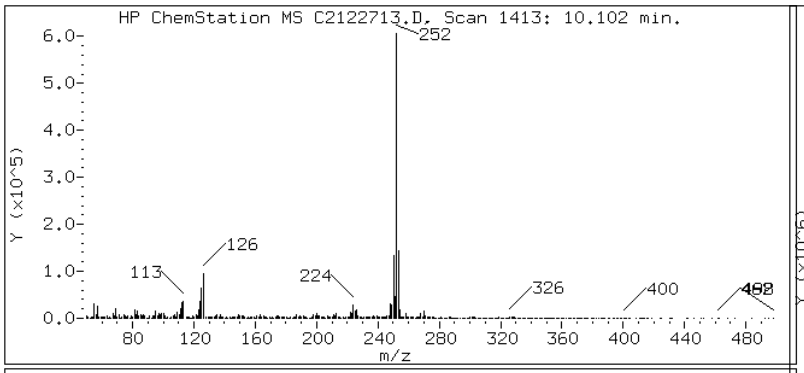
Data File: C2122713.D

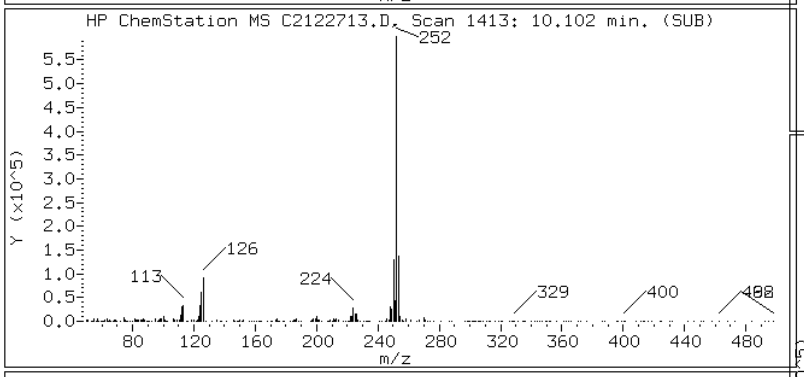
Date: 27-DEC-2012 10:57

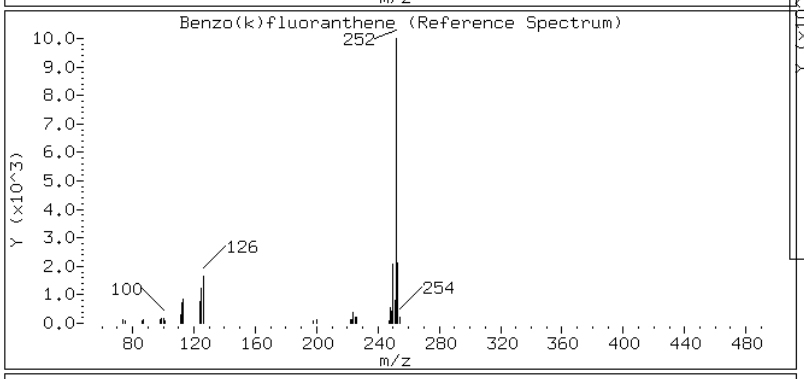
Client ID: CV0511E-CS Instrument: TSMC5973.i

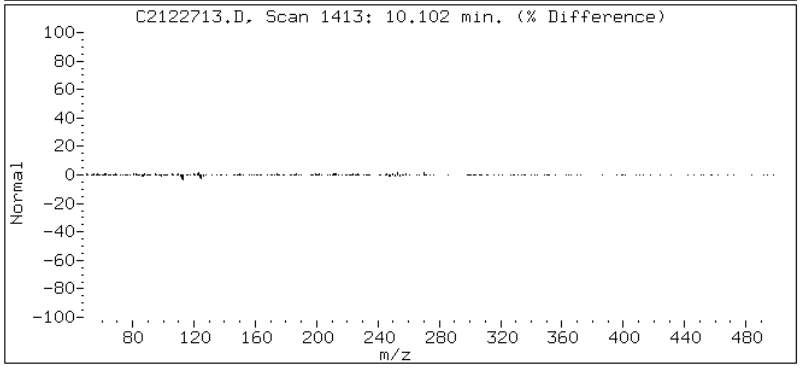
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

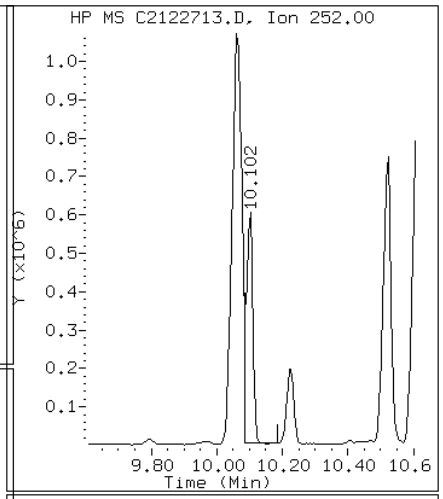
20 Benzo(k)fluoranthene

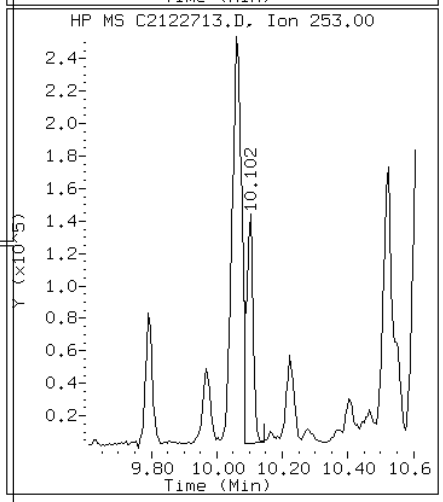












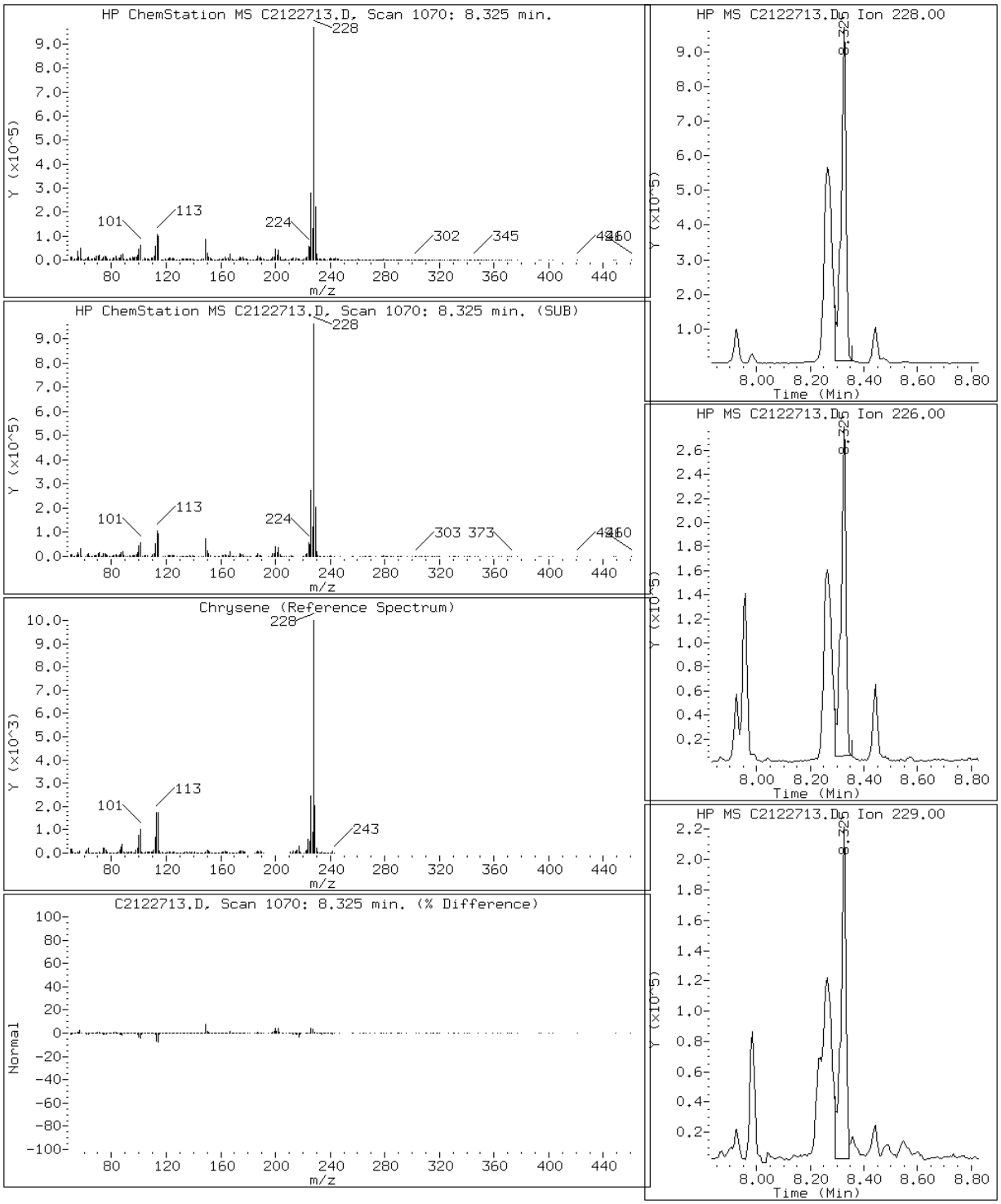
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

17 Chrysene



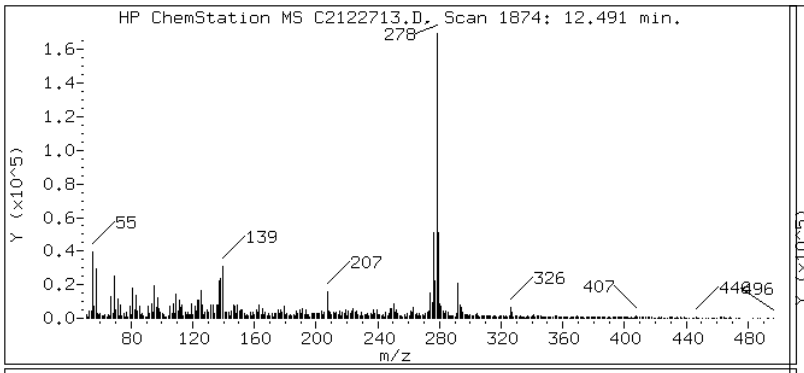
Data File: C2122713.D

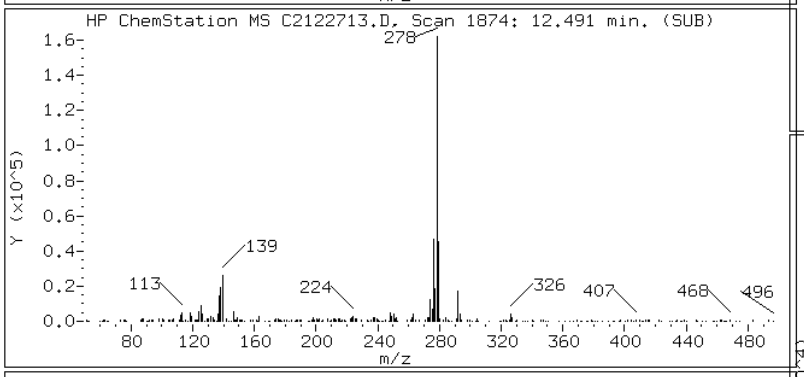
Date: 27-DEC-2012 10:57

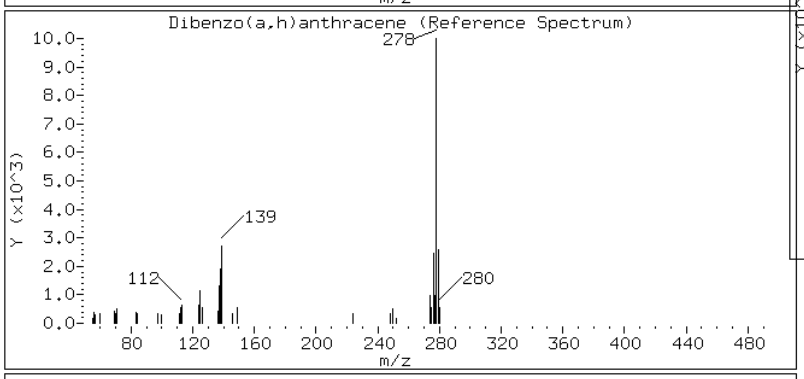
Client ID: CV0511E-CS Instrument: TSMC5973.i

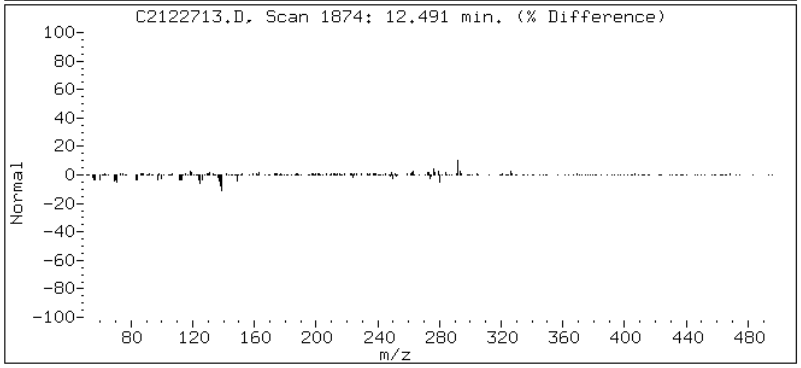
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

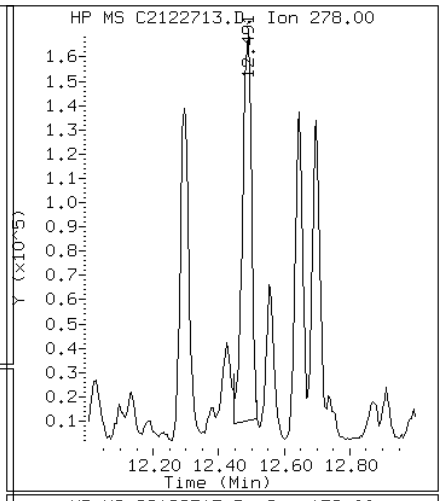
23 Dibenzo(a,h)anthracene

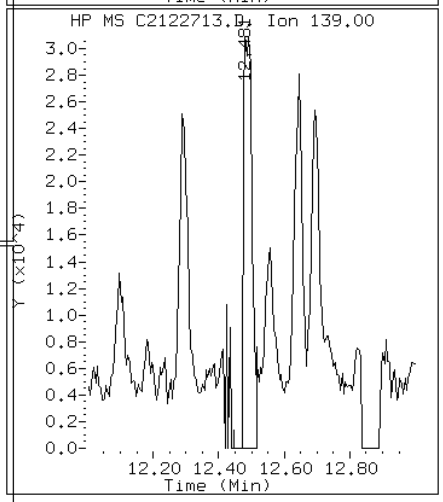












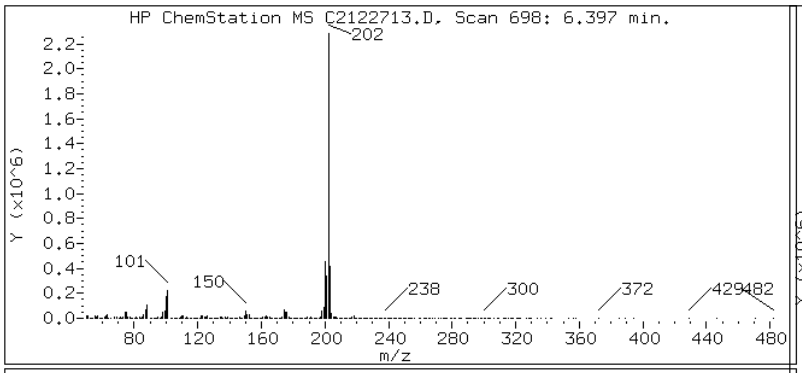
Data File: C2122713.D

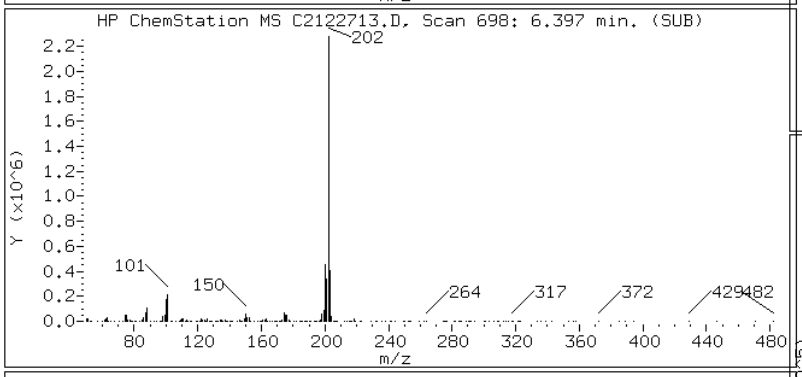
Date: 27-DEC-2012 10:57

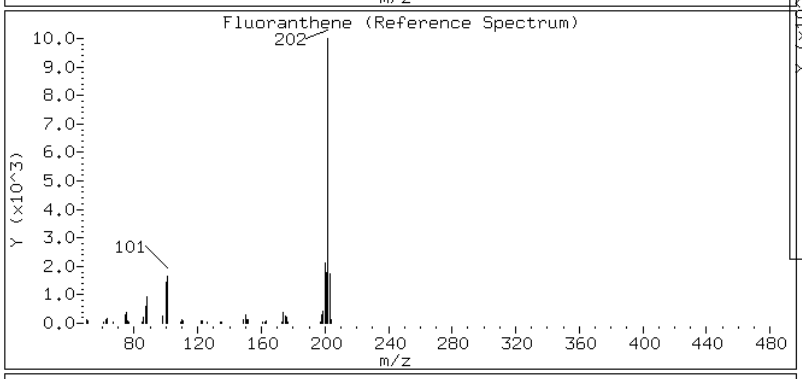
Client ID: CV0511E-CS Instrument: TSMC5973.i

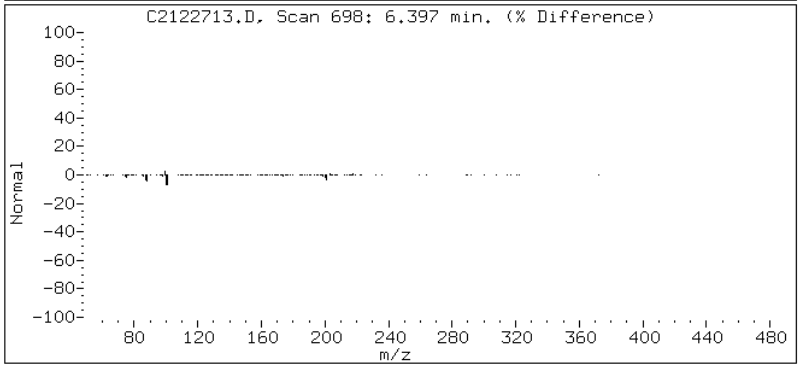
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

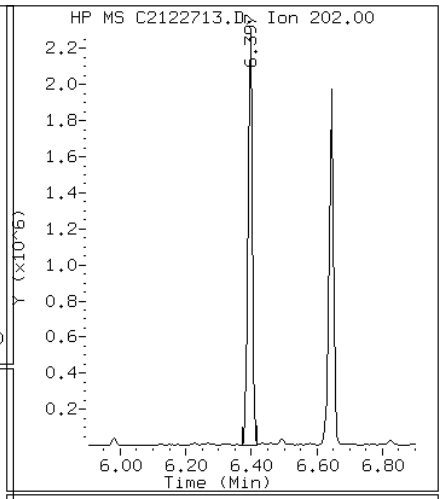
13 Fluoranthene

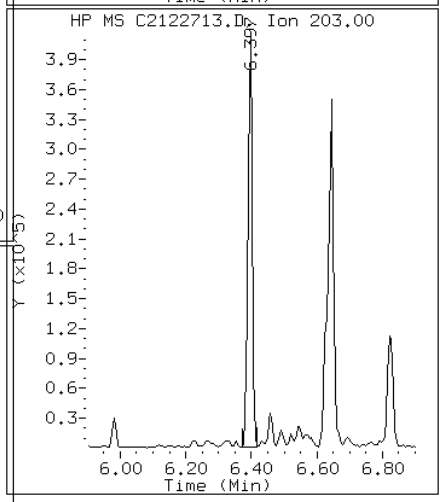












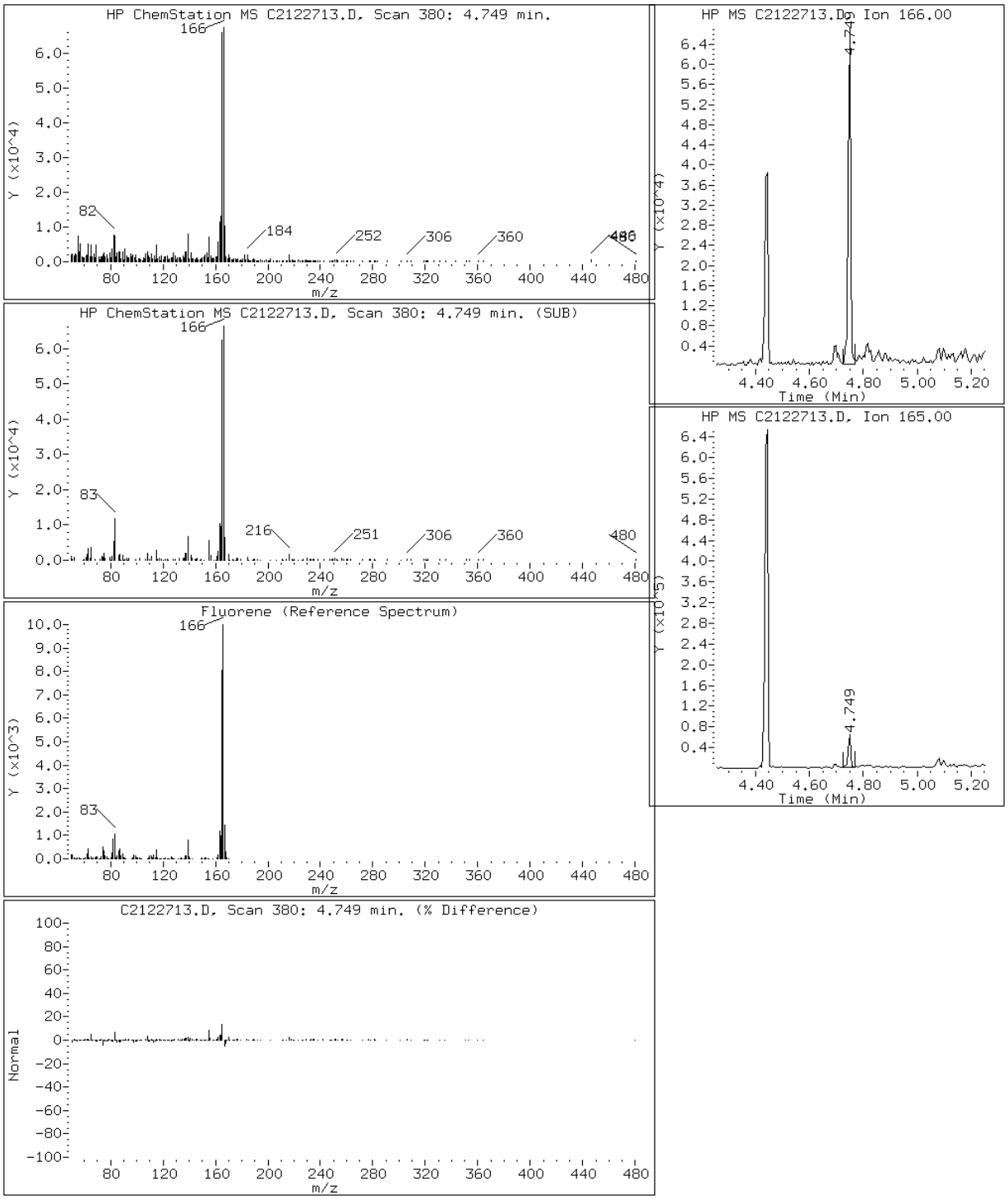
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

8 Fluorene



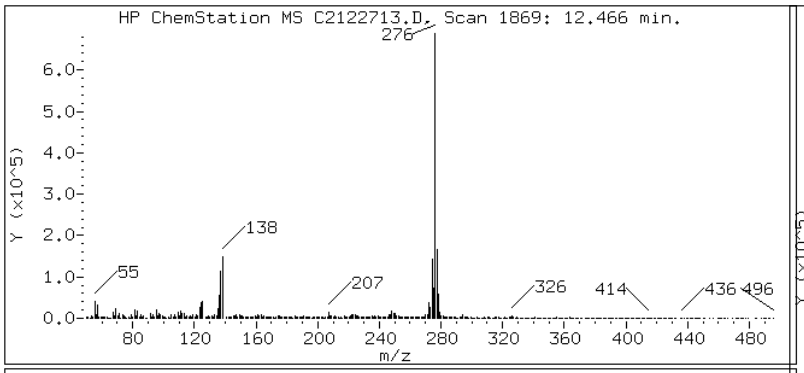
Data File: C2122713.D

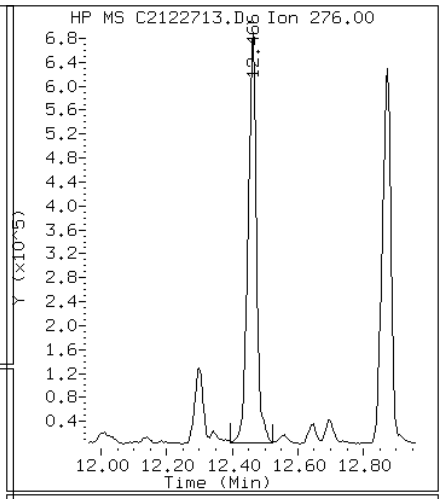
Date: 27-DEC-2012 10:57

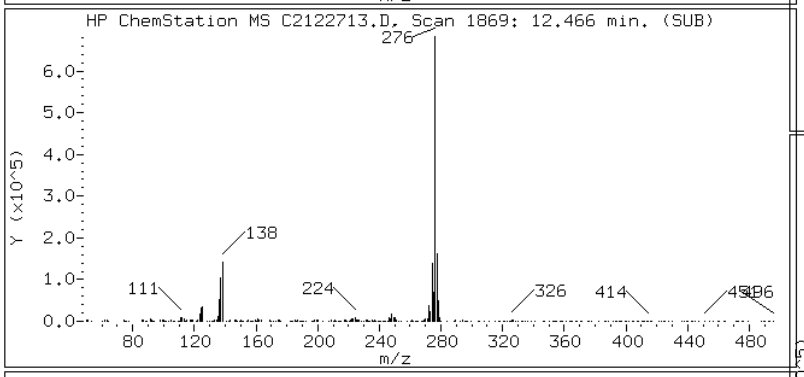
Client ID: CV0511E-CS Instrument: TSMC5973.i

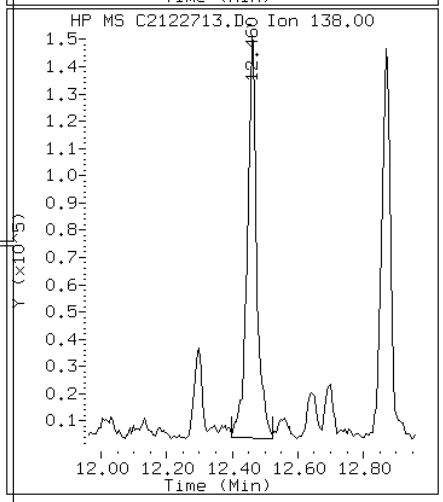
Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

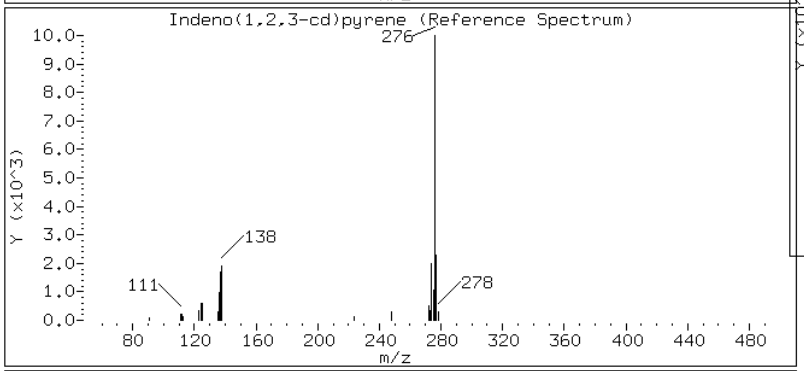
22 Indeno(1,2,3-cd)pyrene

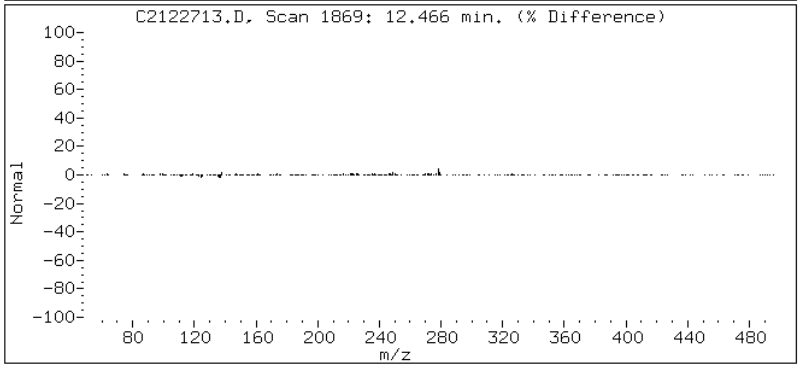












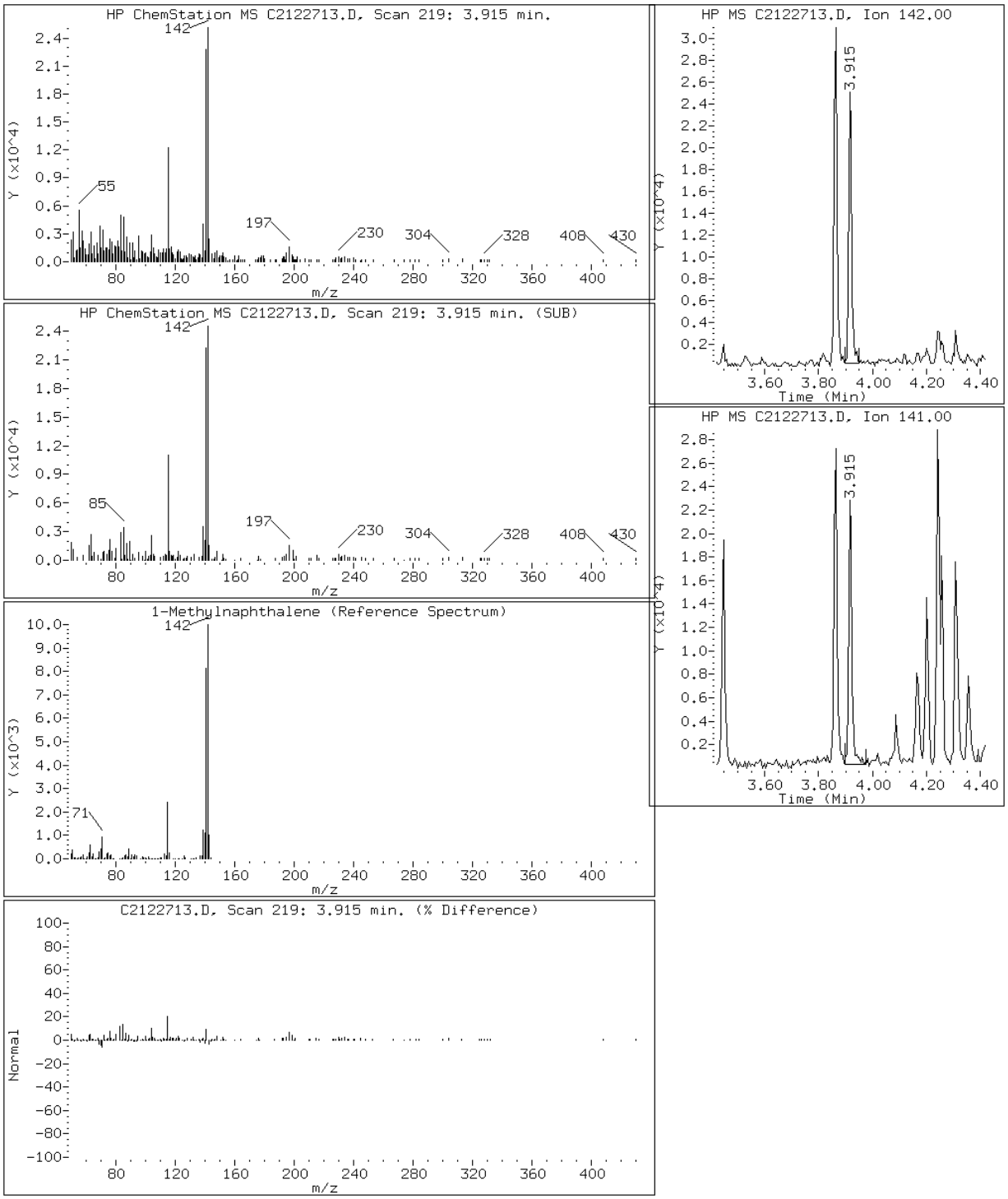
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

4 1-Methylnaphthalene



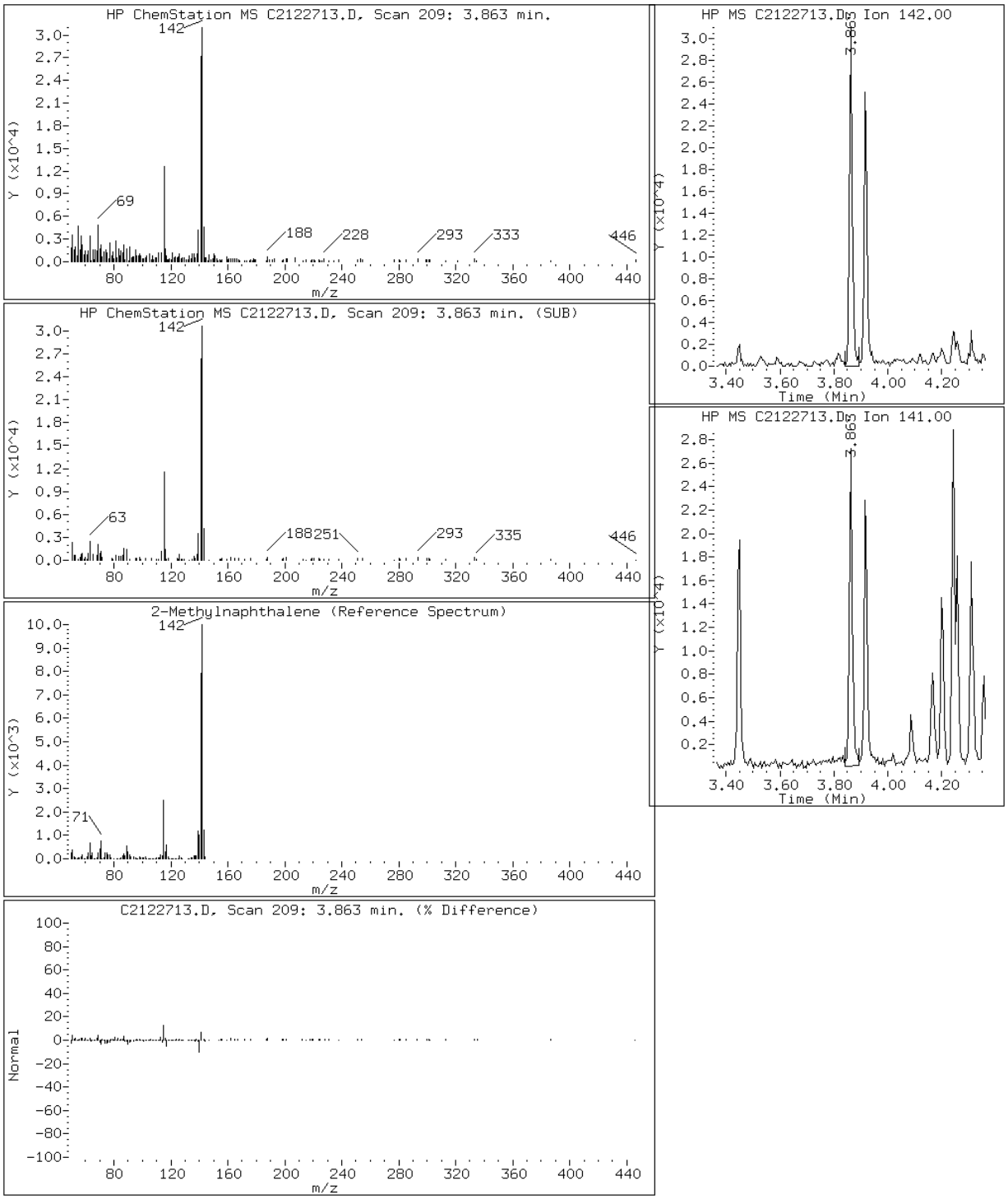
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

3 2-Methylnaphthalene



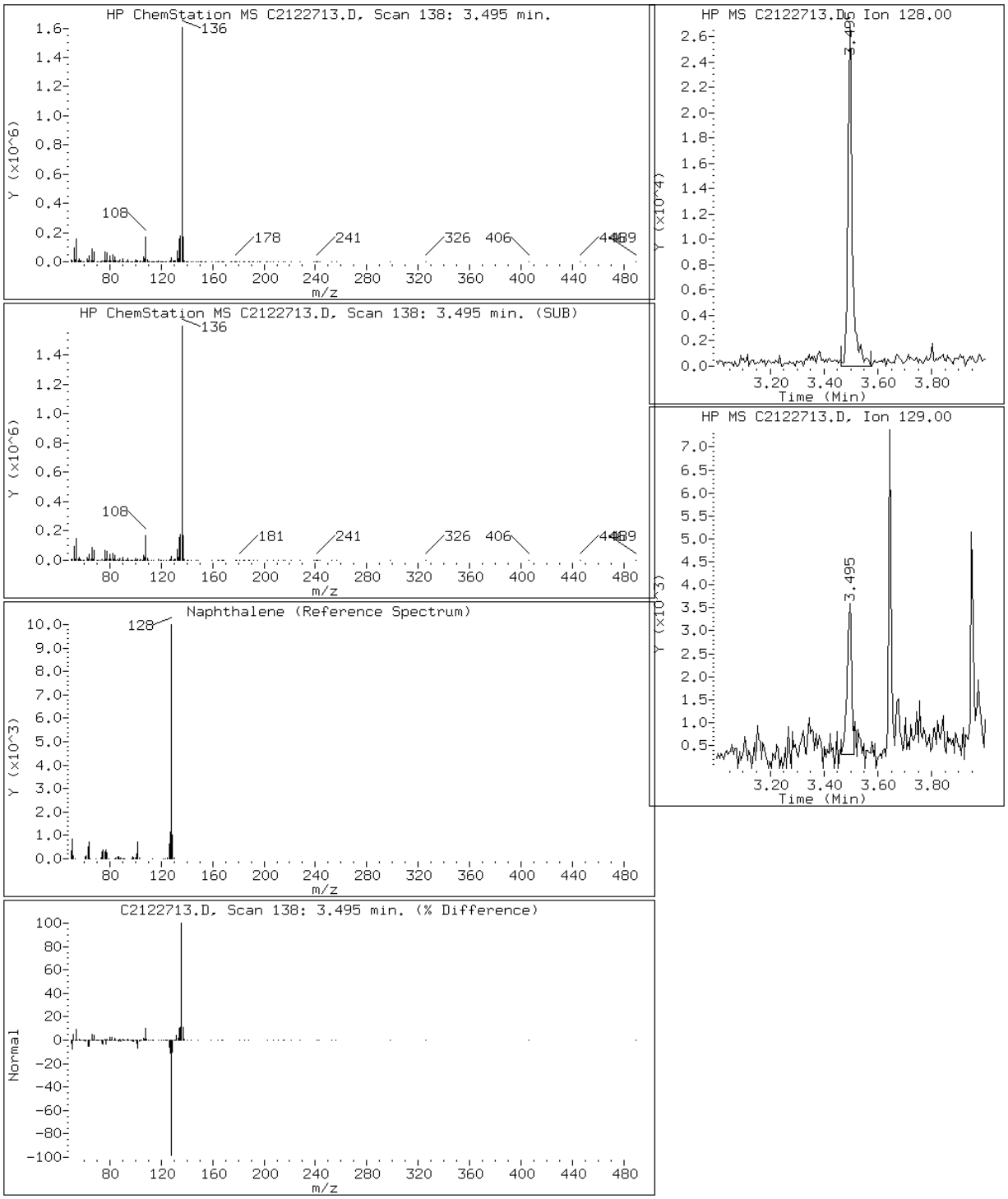
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

2 Naphthalene



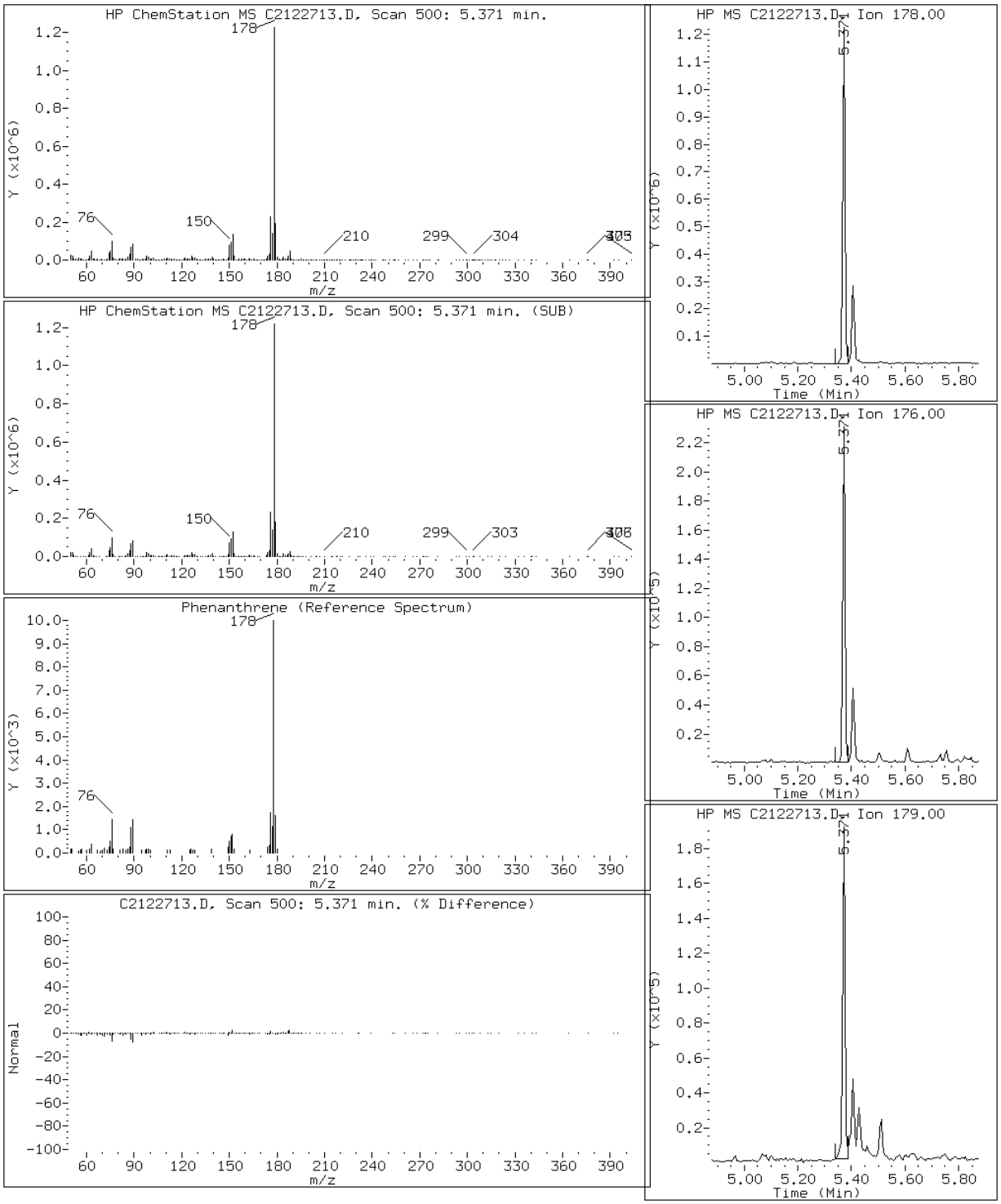
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

10 Phenanthrene



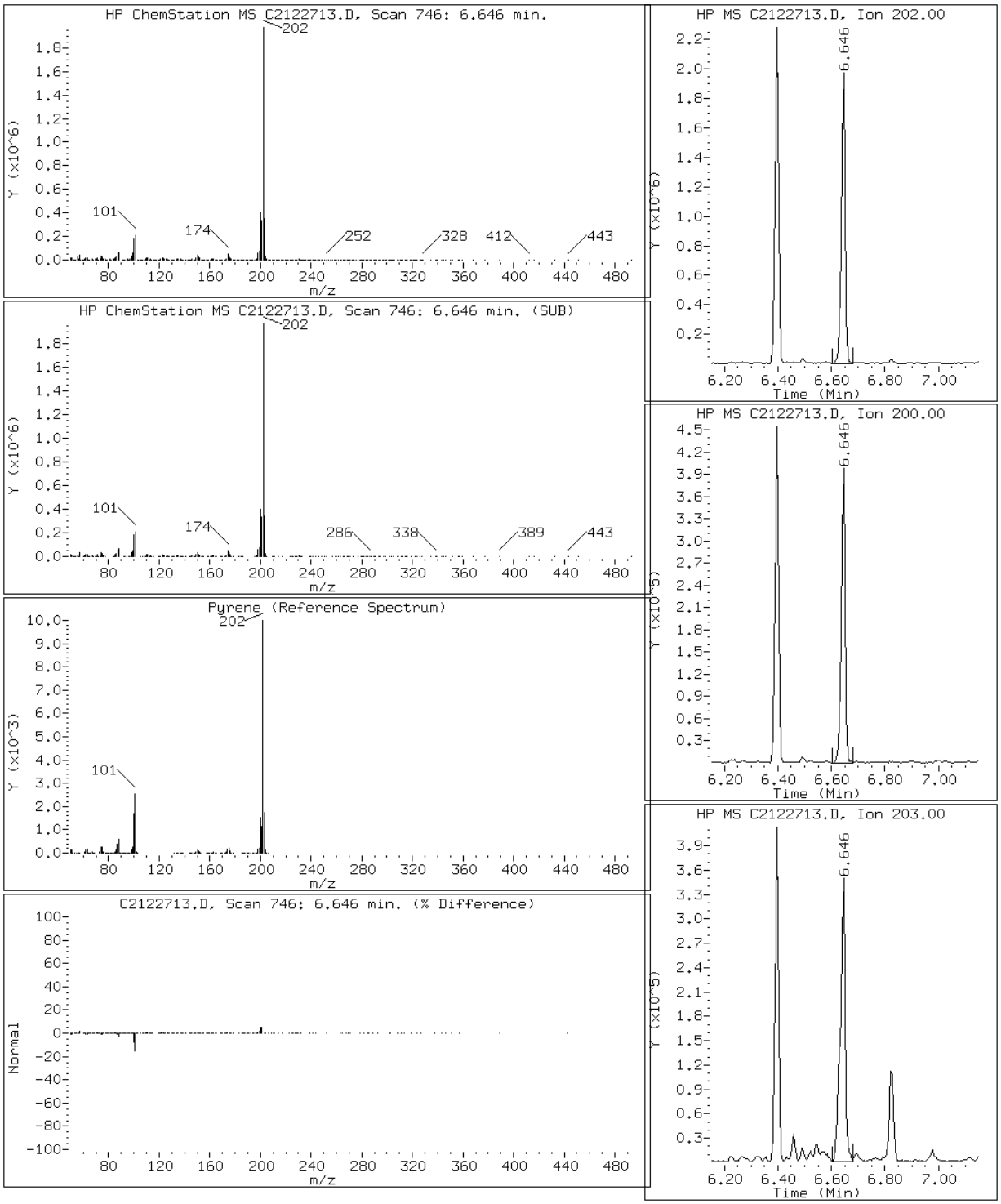
Data File: C2122713.D

Date: 27-DEC-2012 10:57

Client ID: CV0511E-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-38-A~98122~2~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122713.D
Inj. Date and Time: 27-DEC-2012 10:57
Instrument ID: TSMC5973.i
Client ID: CV0511E-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

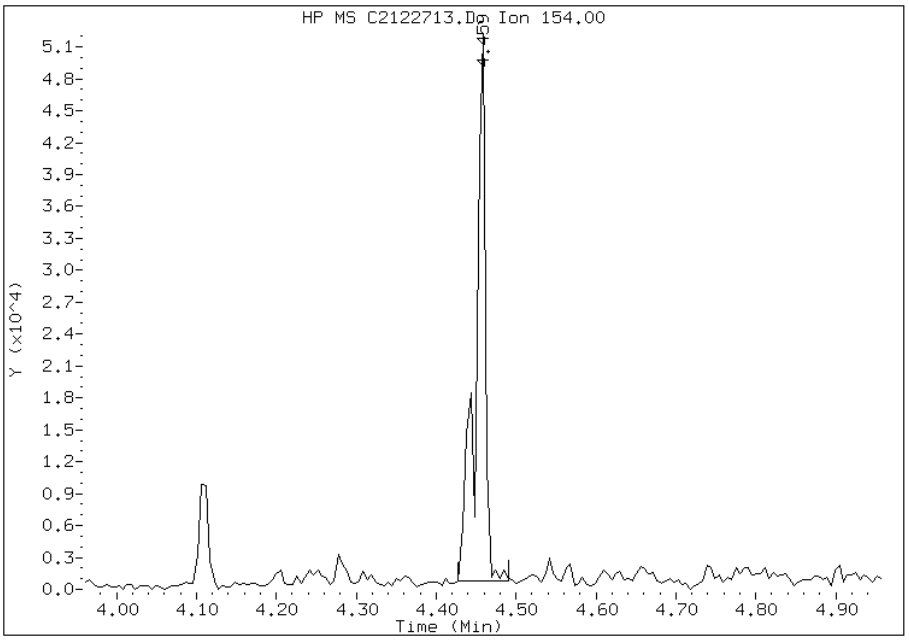
Processing Integration Results

RT: 4.46

Response: 45914

Amount: 0

Conc: 29



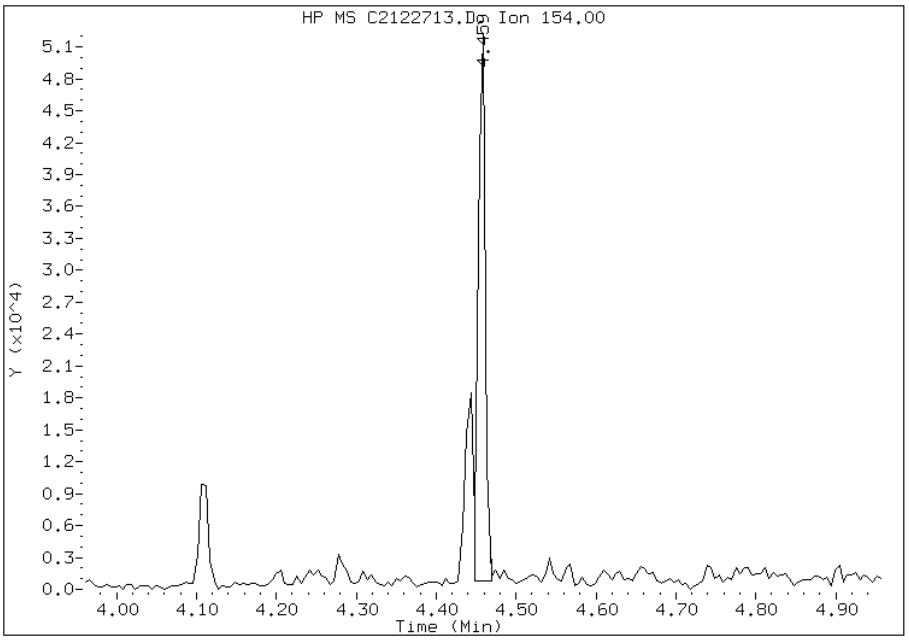
Manual Integration Results

RT: 4.46

Response: 33780

Amount: 0

Conc: 21



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511F-CS | Lab Sample ID: 680-85785-39

Matrix: Solid | Lab File ID: C2122714.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:35

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.58(g) | Date Analyzed: 12/27/2012 11:16

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 2

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

% Moisture: 35.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	23		20	1.8
208-96-8	Acenaphthylene	18	J	20	1.6
120-12-7	Anthracene	68		20	2.0
56-55-3	Benzo[a]anthracene	420		20	1.9
50-32-8	Benzo[a]pyrene	600		20	2.1
205-99-2	Benzo[b]fluoranthene	850		20	2.9
191-24-2	Benzo[g,h,i]perylene	450		20	3.4
207-08-9	Benzo[k]fluoranthene	300		20	2.0
218-01-9	Chrysene	550		20	2.3
53-70-3	Dibenz(a,h)anthracene	120		20	2.0
206-44-0	Fluoranthene	670		20	1.8
86-73-7	Fluorene	21		20	1.6
193-39-5	Indeno[1,2,3-cd]pyrene	460		20	3.4
90-12-0	1-Methylnaphthalene	20		20	1.6
91-57-6	2-Methylnaphthalene	27		20	1.6
91-20-3	Naphthalene	25		20	1.6
85-01-8	Phenanthrene	320		20	1.3
129-00-0	Pyrene	550		20	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	81		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122714.D
Lab Smp Id: 680-85785-A-39-A Client Smp ID: CV0511F-CS
Inj Date : 27-DEC-2012 11:16
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-39-A~98122~2~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 8
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.580	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.277	3.282	(0.941)	76083	1.15015	75	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	6147679	40.0000		
2 Naphthalene	128	3.494	3.500	(1.003)	36689	0.24421	16	
3 2-Methylnaphthalene	142	3.862	3.863	(1.109)	29976	0.26291	17	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	21691	0.19395	13(a)	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3506626	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	32557	0.17278	11(a)	
7 Acenaphthene	154	4.458	4.459	(1.003)	22244	0.22564	15(M)	SP
8 Fluorene	166	4.748	4.754	(1.069)	27059	0.20561	13(a)	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5696681	40.0000		
10 Phenanthrene	178	5.370	5.376	(1.003)	504729	3.16586	210	
11 Anthracene	178	5.407	5.412	(1.010)	115628	0.66540	44	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	168358	1.61121	100	
13 Fluoranthene	202	6.396	6.402	(1.195)	1398699	6.58325	430	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.298	8.299	(1.000)	6448109	40.0000		
15 Pyrene	202	6.645	6.651	(0.801)	1312091	5.43141	360	
16 Benzo(a)anthracene	228	8.262	8.267	(0.996)	913041	4.12300	270	
17 Chrysene	228	8.324	8.330	(1.003)	1037217	5.43113	360	
* 18 Perylene-d12	264	10.739	10.734	(1.000)	7595843	40.0000		
19 Benzo(b)fluoranthene	252	10.060	10.061	(0.937)	2026498	8.37484	550	
20 Benzo(k)fluoranthene	252	10.102	10.107	(0.941)	697142	2.96486	190	
21 Benzo(a)pyrene	252	10.610	10.610	(0.988)	1259901	5.86873	380	
22 Indeno(1,2,3-cd)pyrene	276	12.465	12.460	(1.161)	1038953	4.52900	300	
23 Dibenzo(a,h)anthracene	278	12.491	12.501	(1.163)	257392	1.15901	76	
24 Benzo(g,h,i)perylene	276	12.874	12.869	(1.199)	1005265	4.46339	290	

QC Flag Legend

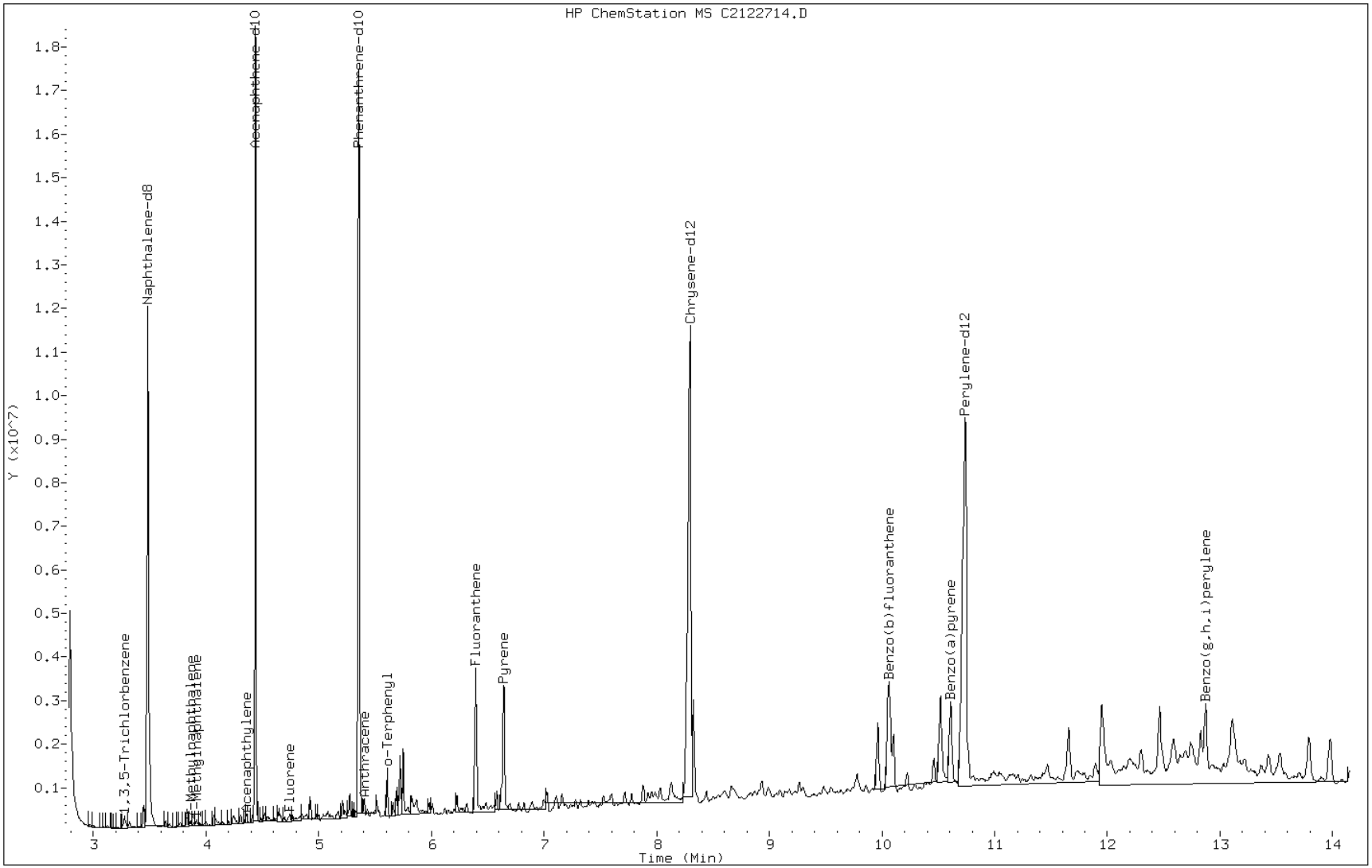
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW



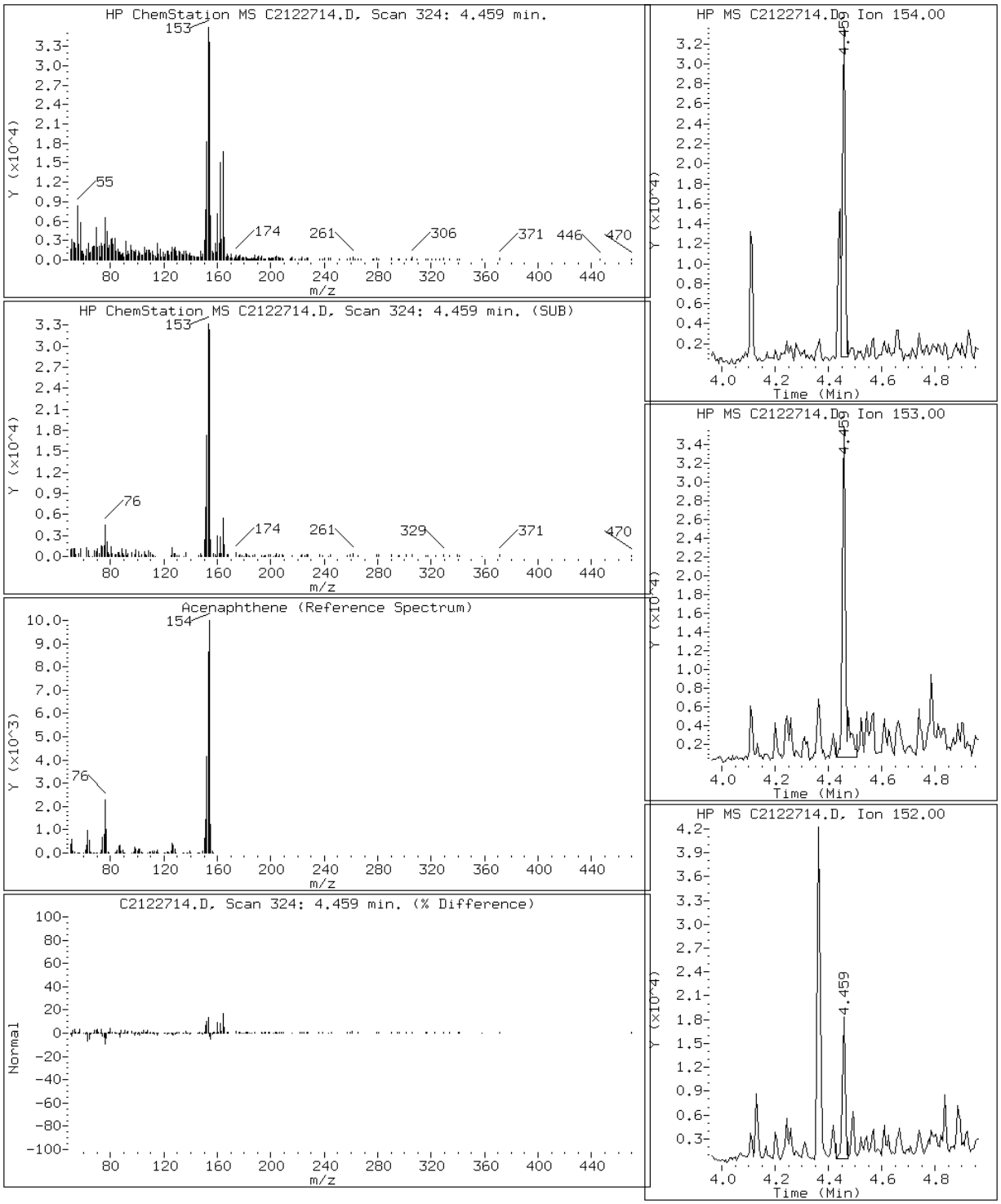
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

7 Acenaphthene



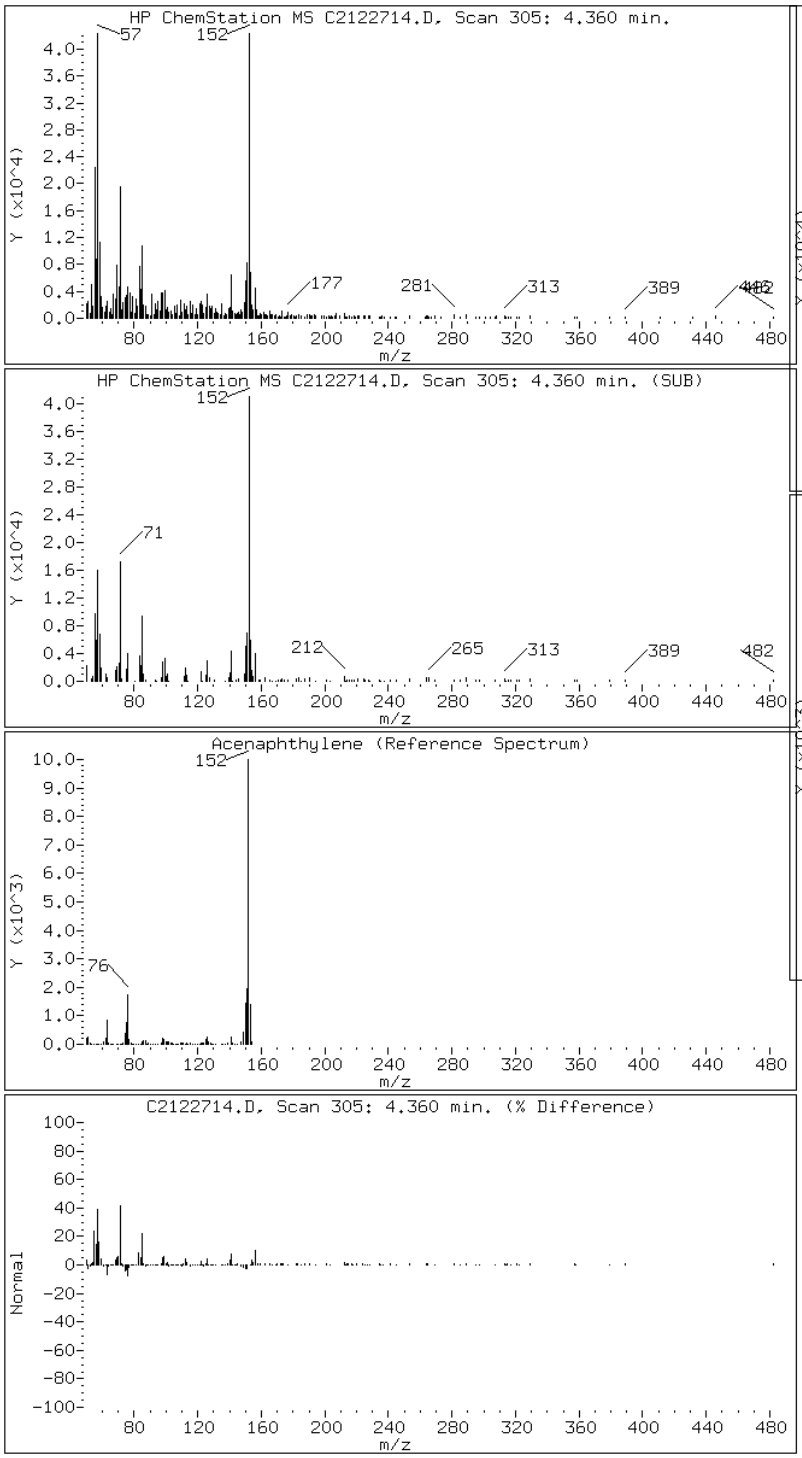
Data File: C2122714.D

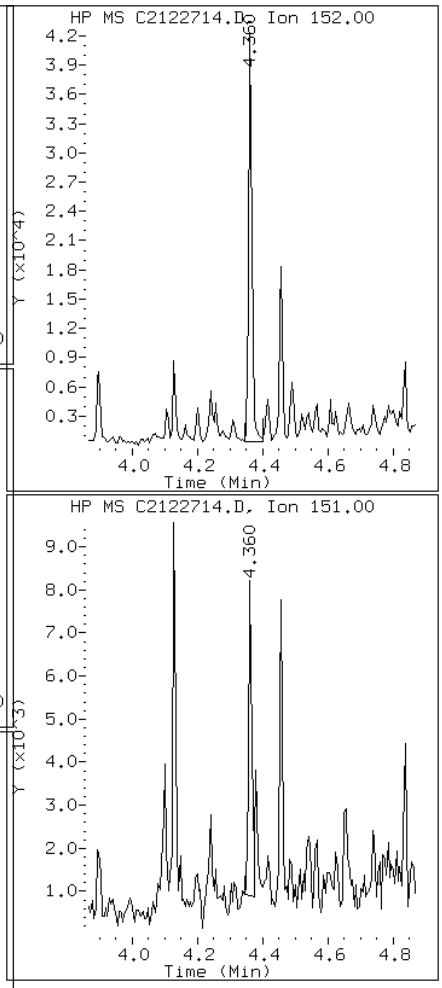
Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

6 Acenaphthylene





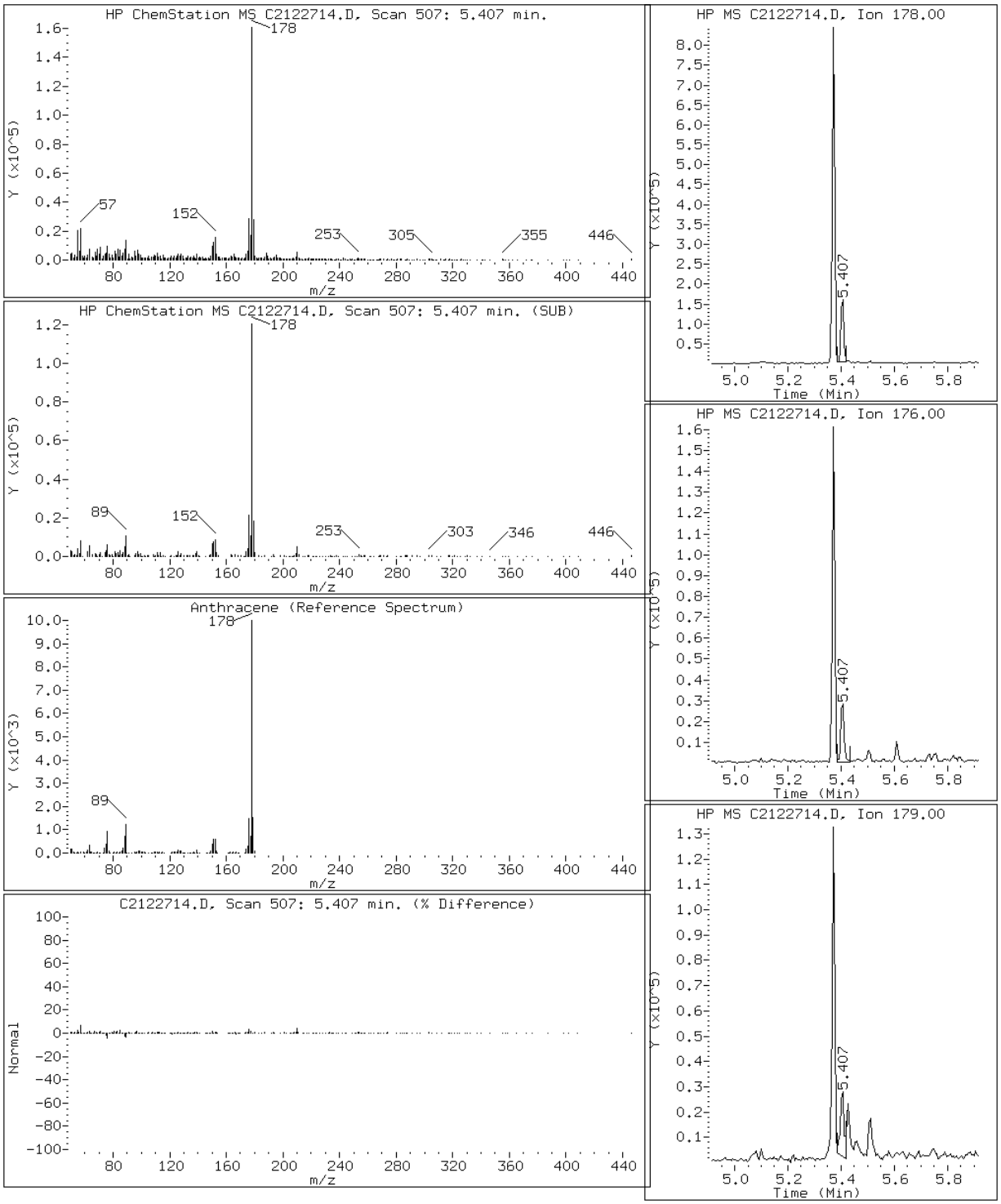
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

11 Anthracene



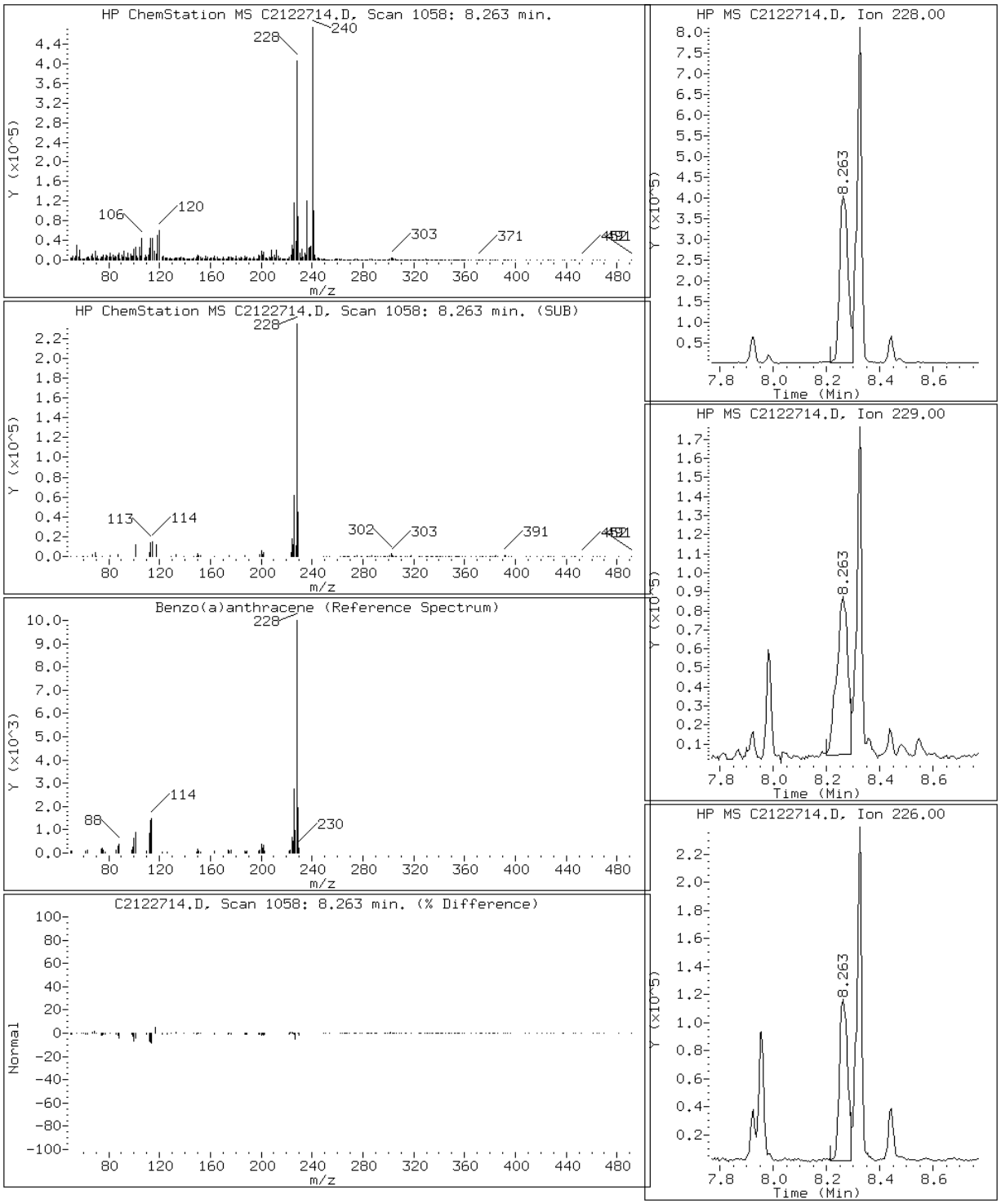
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

16 Benzo(a)anthracene



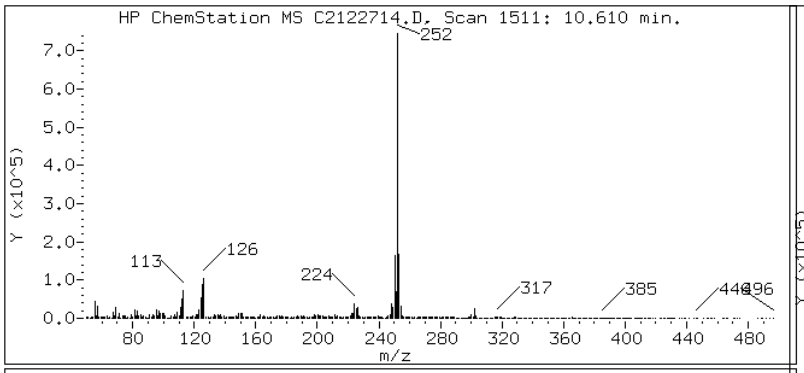
Data File: C2122714.D

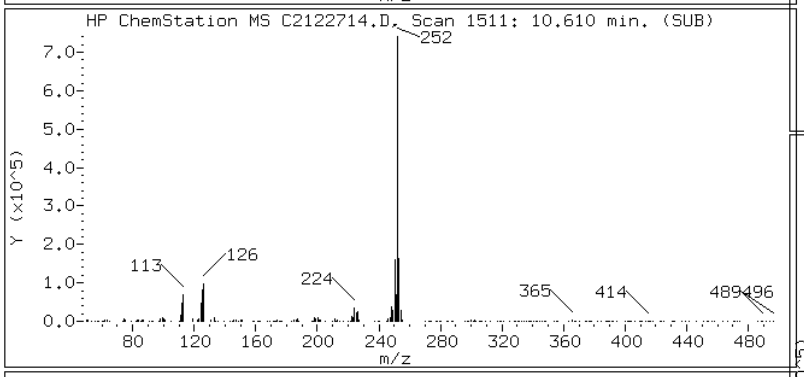
Date: 27-DEC-2012 11:16

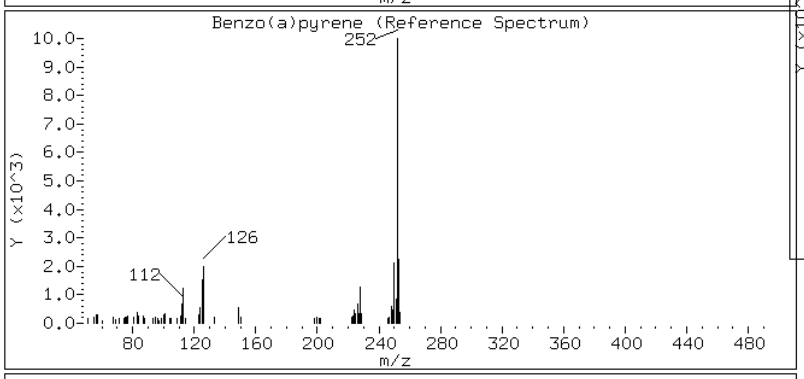
Client ID: CV0511F-CS Instrument: TSMC5973.i

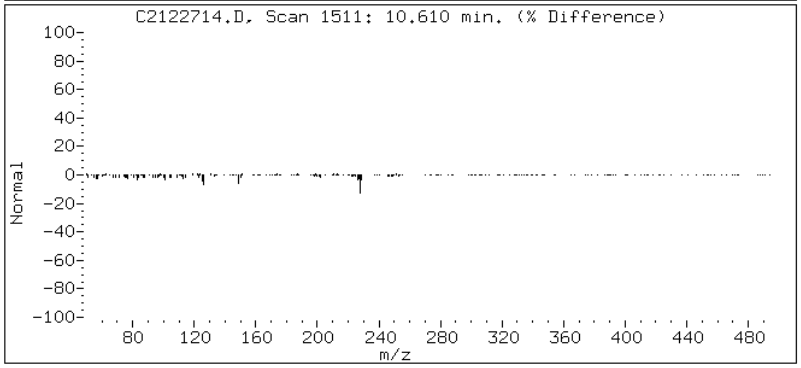
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

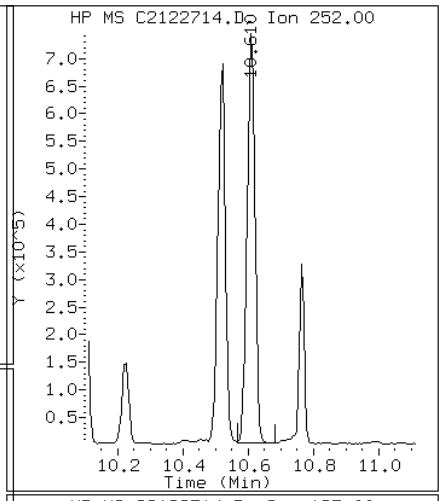
21 Benzo(a)pyrene

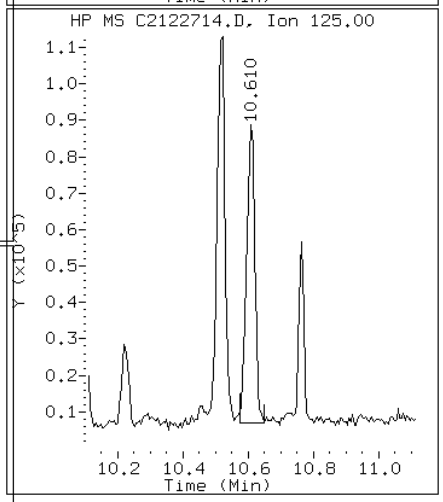












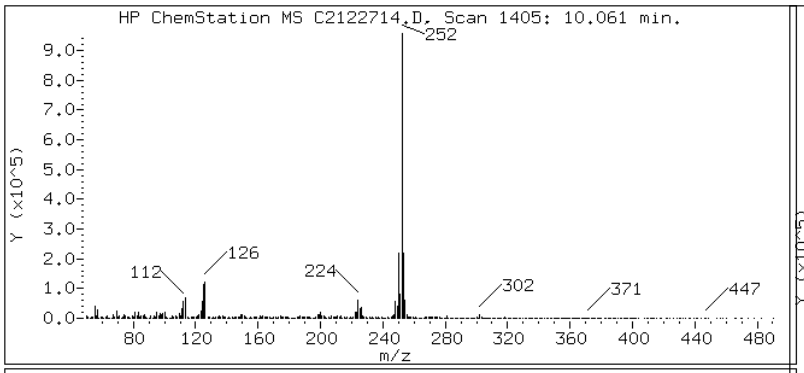
Data File: C2122714.D

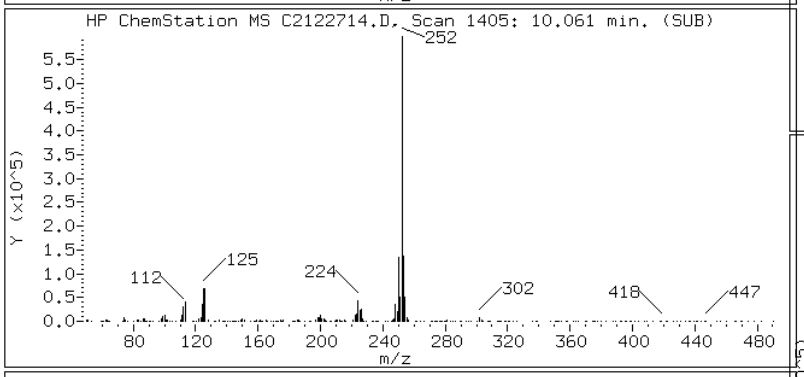
Date: 27-DEC-2012 11:16

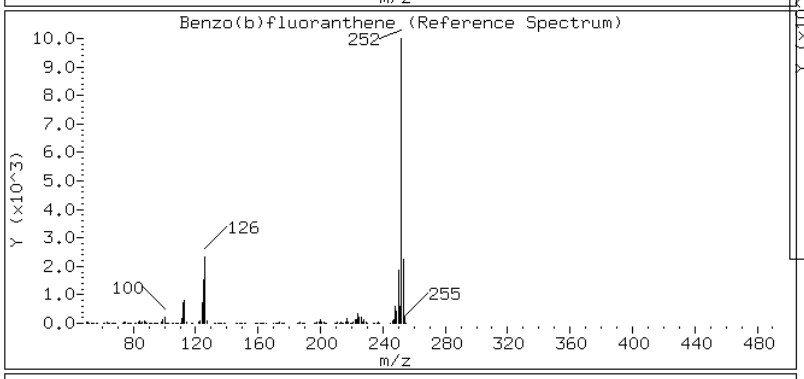
Client ID: CV0511F-CS Instrument: TSMC5973.i

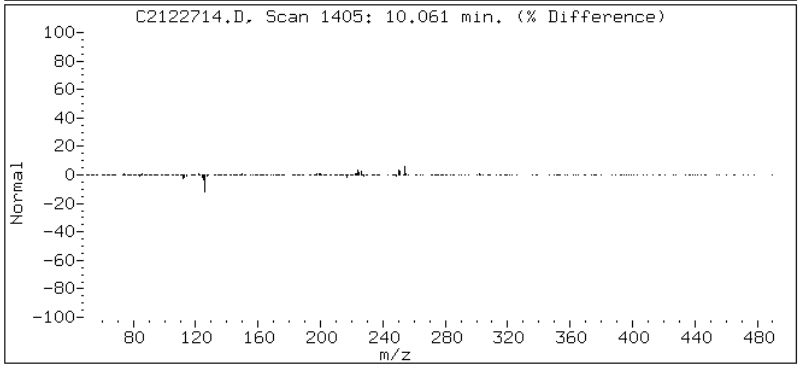
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

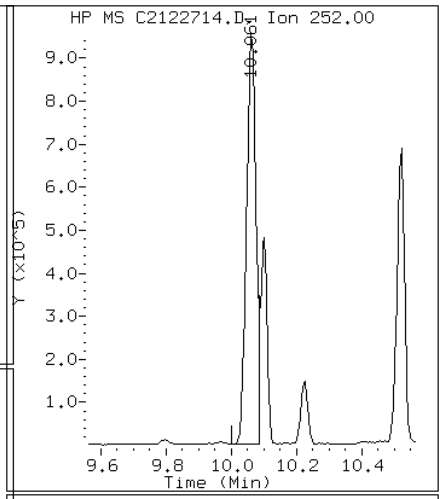
19 Benzo(b)fluoranthene

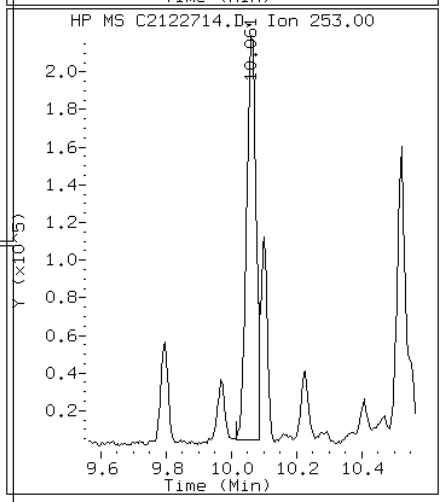












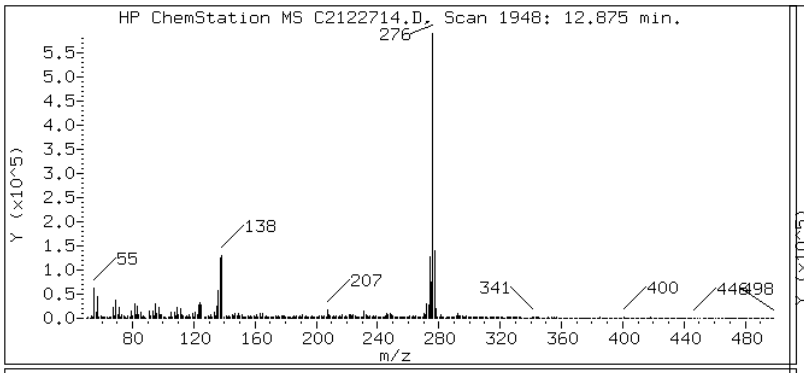
Data File: C2122714.D

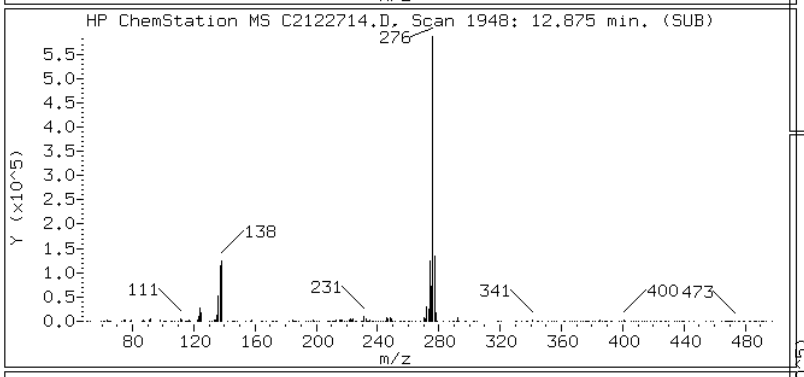
Date: 27-DEC-2012 11:16

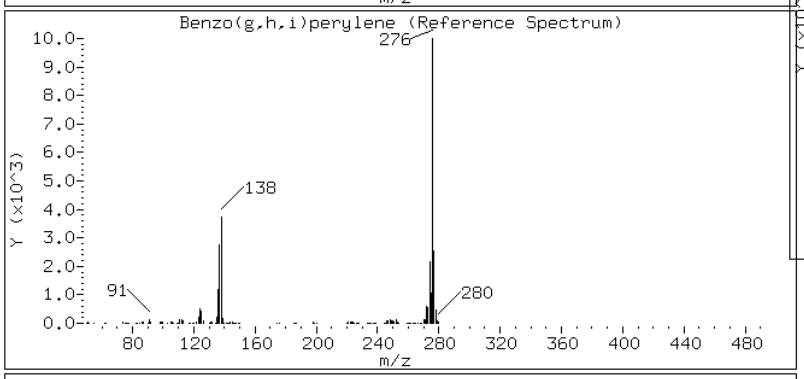
Client ID: CV0511F-CS Instrument: TSMC5973.i

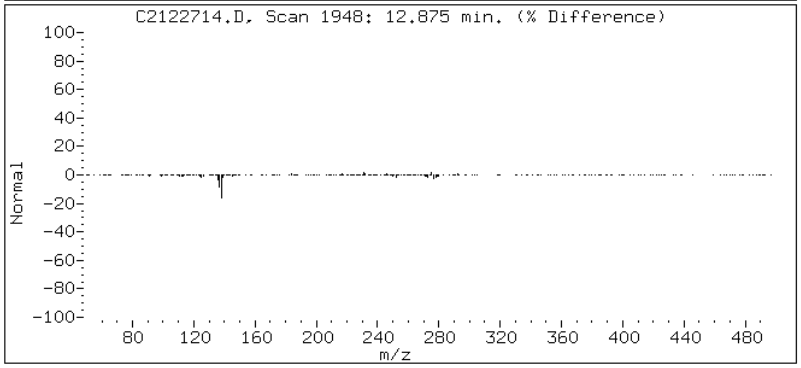
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

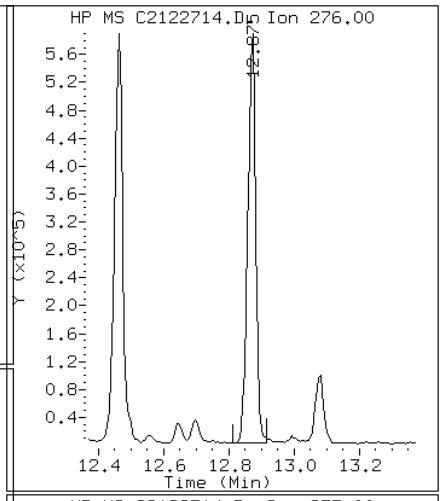
24 Benzo(g,h,i)perylene

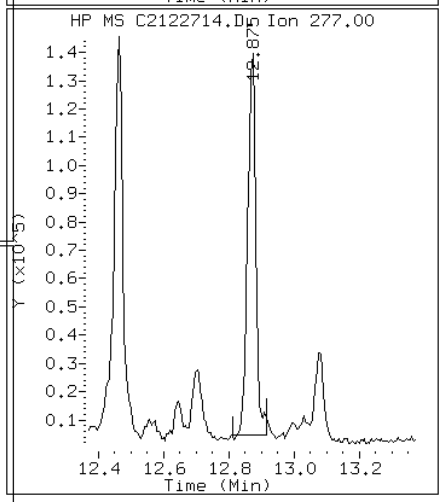












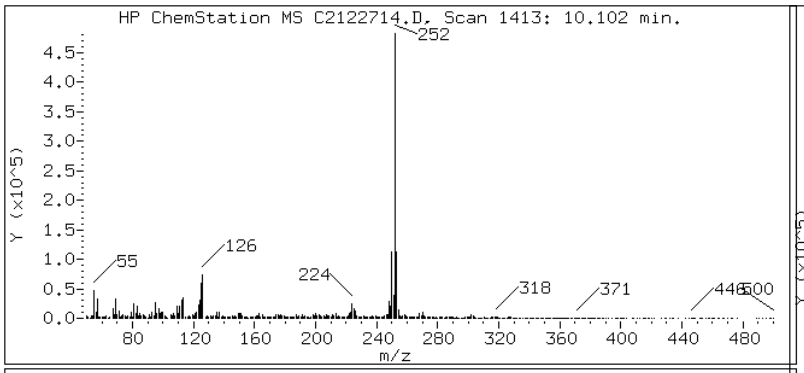
Data File: C2122714.D

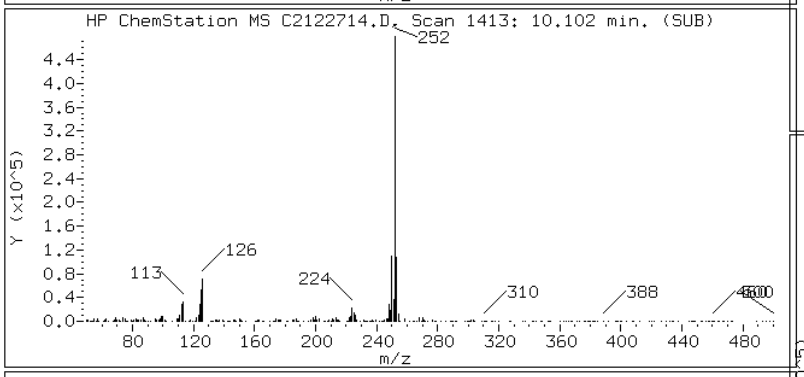
Date: 27-DEC-2012 11:16

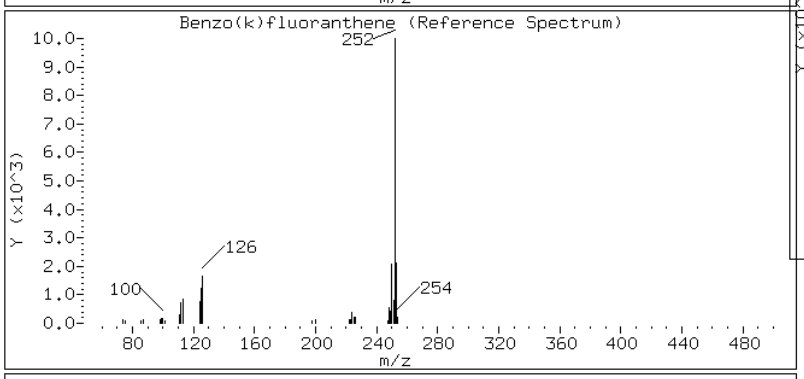
Client ID: CV0511F-CS Instrument: TSMC5973.i

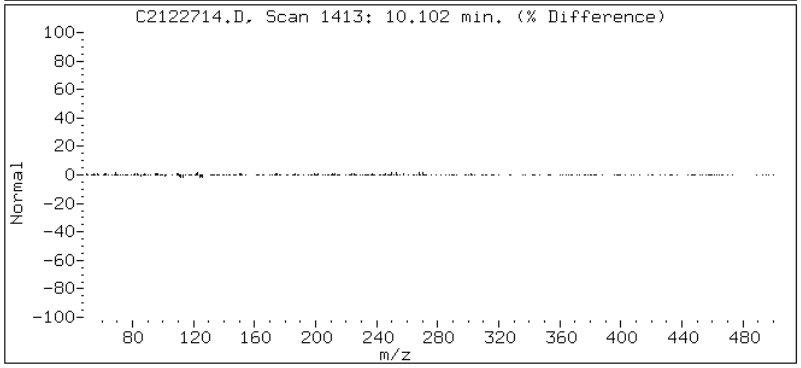
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

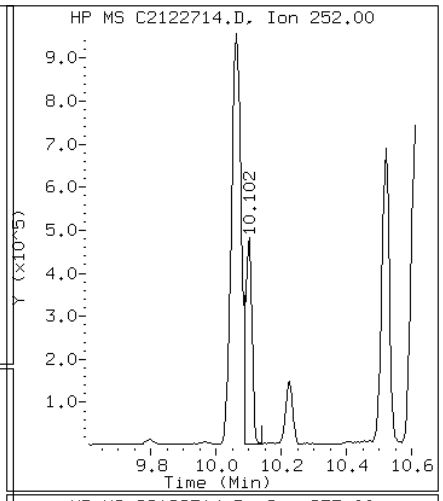
20 Benzo(k)fluoranthene

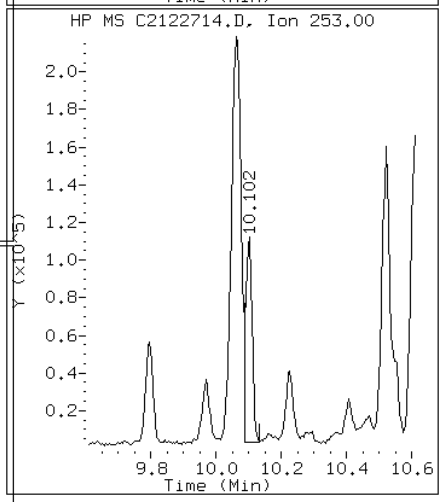












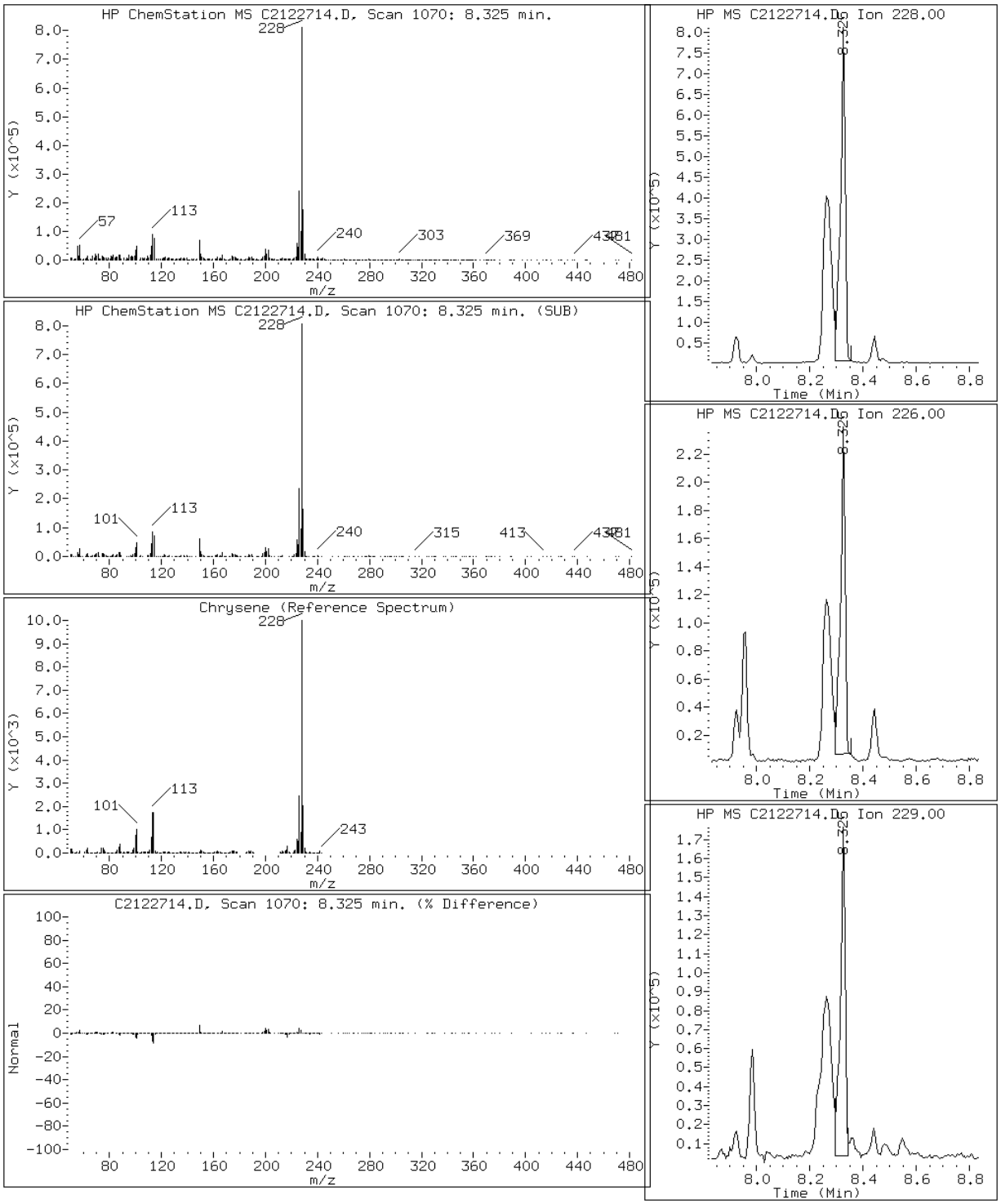
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

17 Chrysene



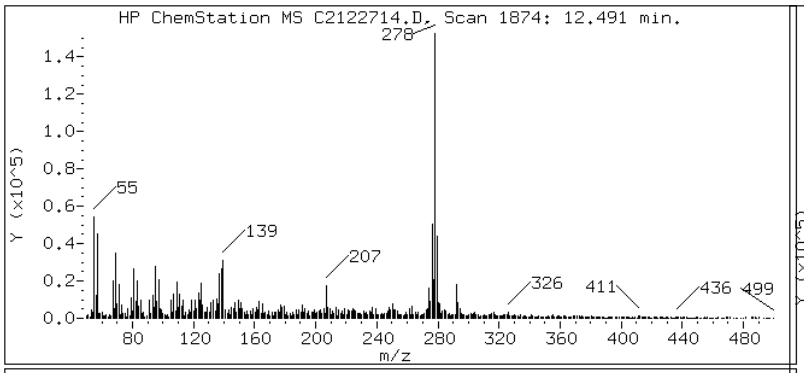
Data File: C2122714.D

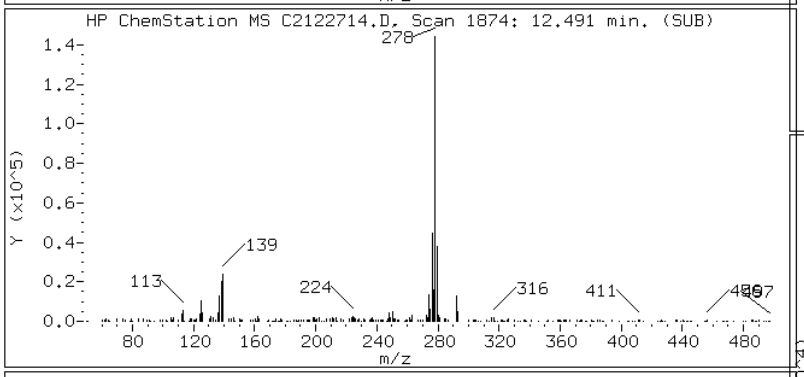
Date: 27-DEC-2012 11:16

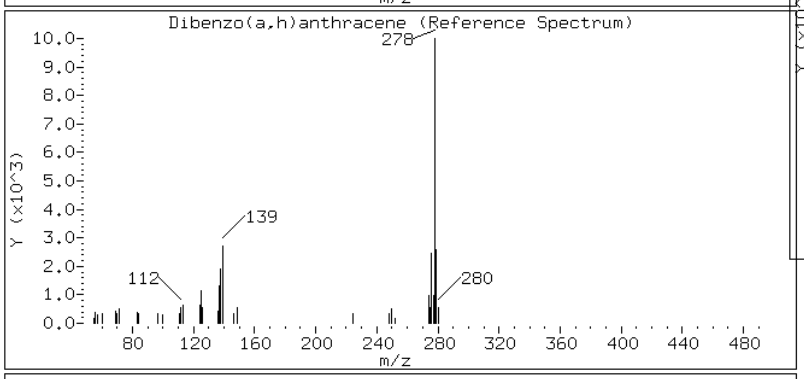
Client ID: CV0511F-CS Instrument: TSMC5973.i

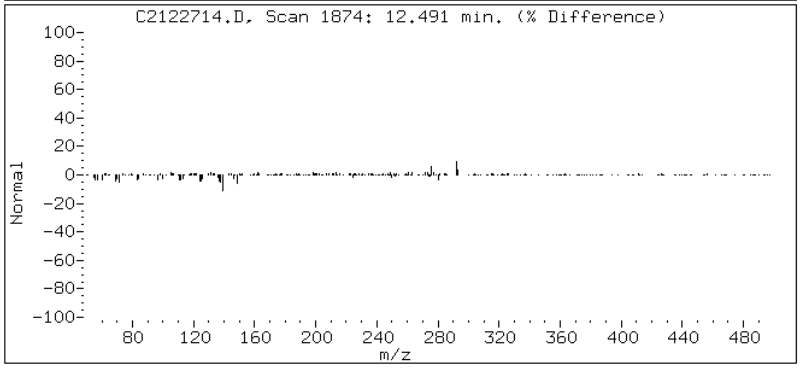
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

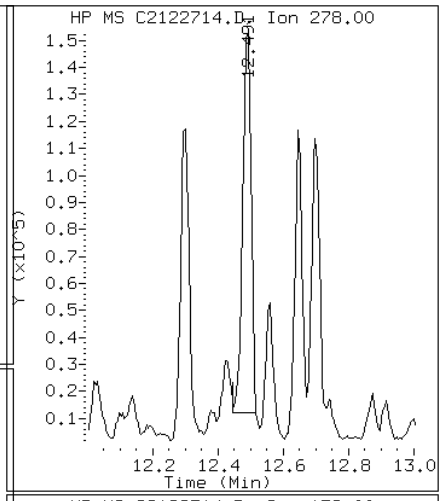
23 Dibenzo(a,h)anthracene

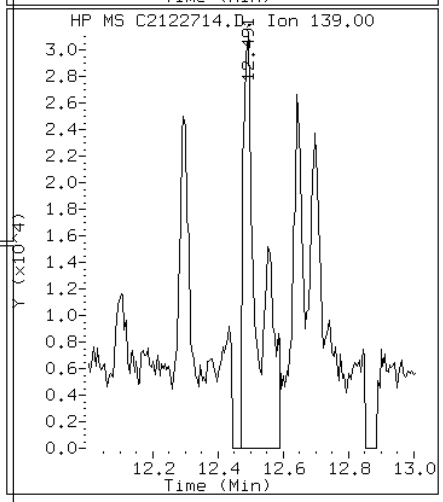












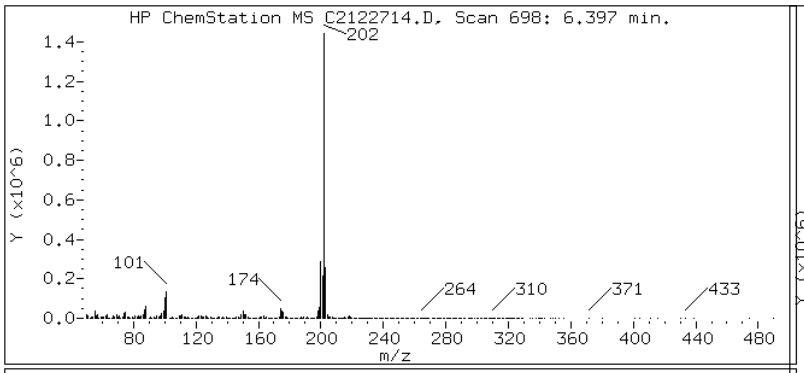
Data File: C2122714.D

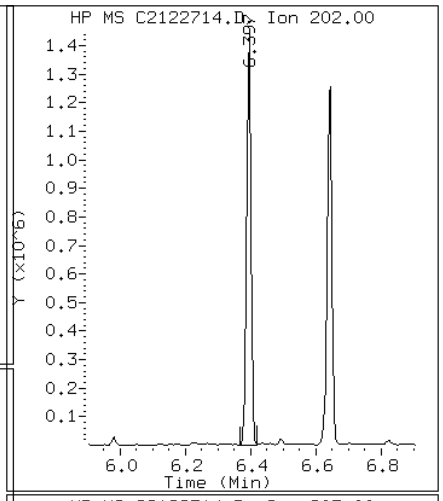
Date: 27-DEC-2012 11:16

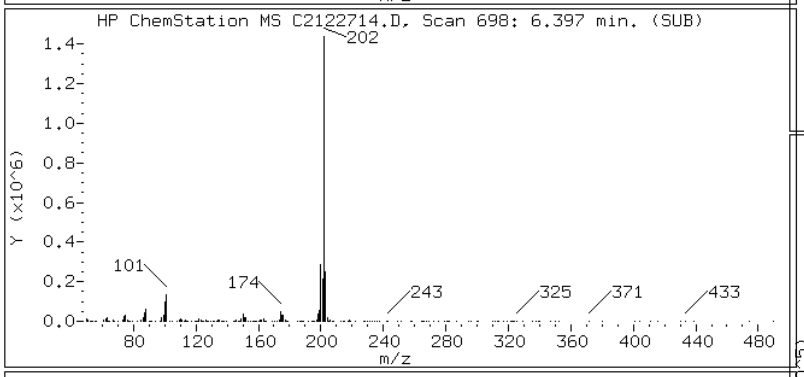
Client ID: CV0511F-CS Instrument: TSMC5973.i

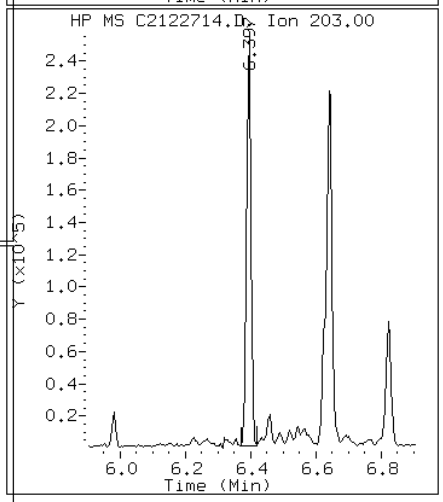
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

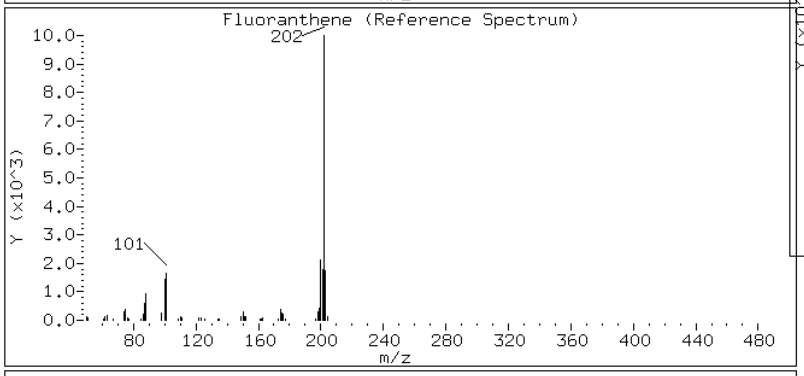
13 Fluoranthene

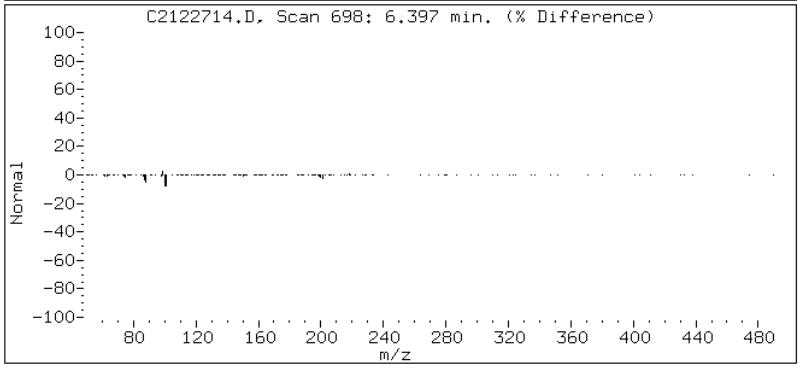












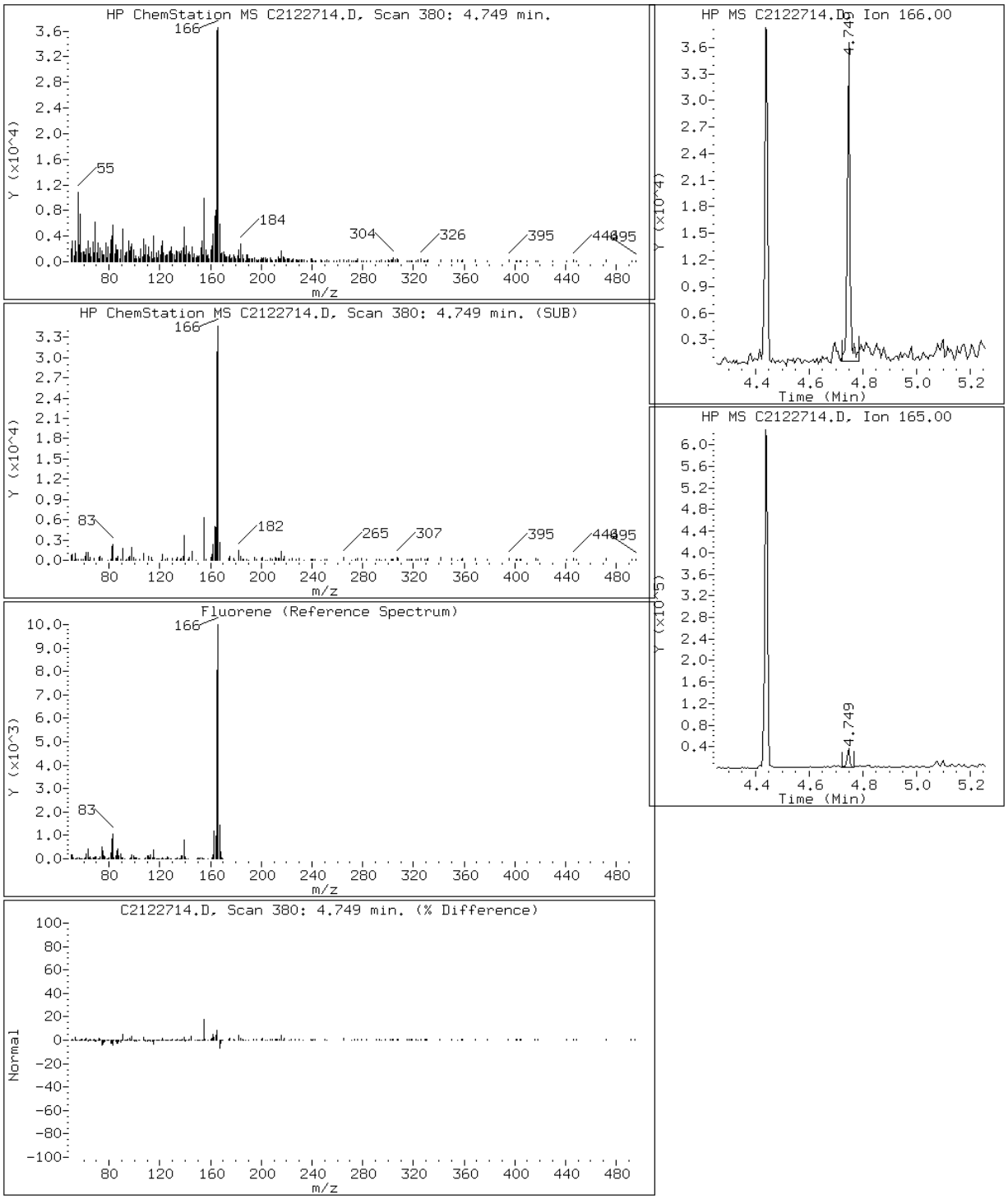
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

8 Fluorene



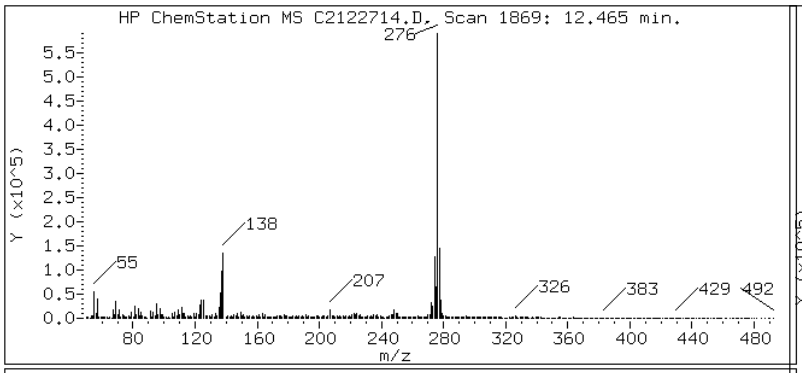
Data File: C2122714.D

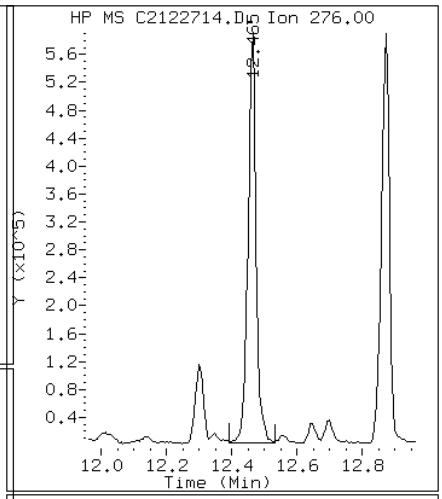
Date: 27-DEC-2012 11:16

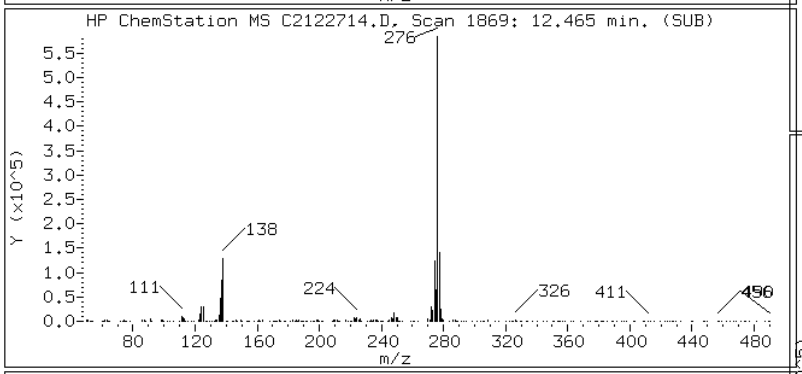
Client ID: CV0511F-CS Instrument: TSMC5973.i

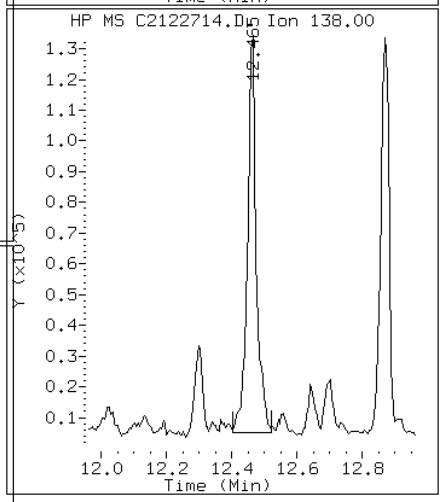
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

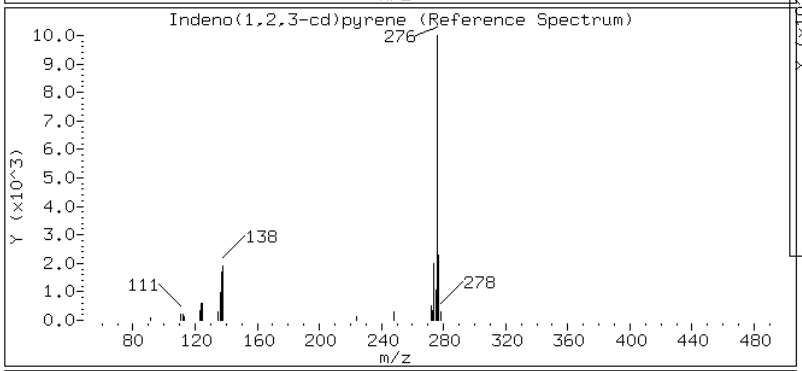
22 Indeno(1,2,3-cd)pyrene

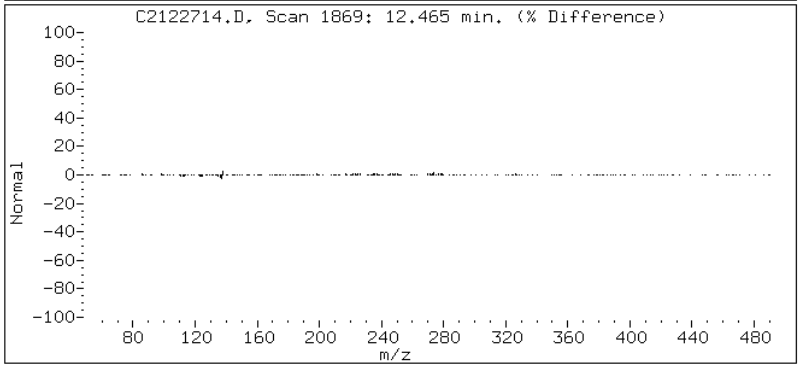












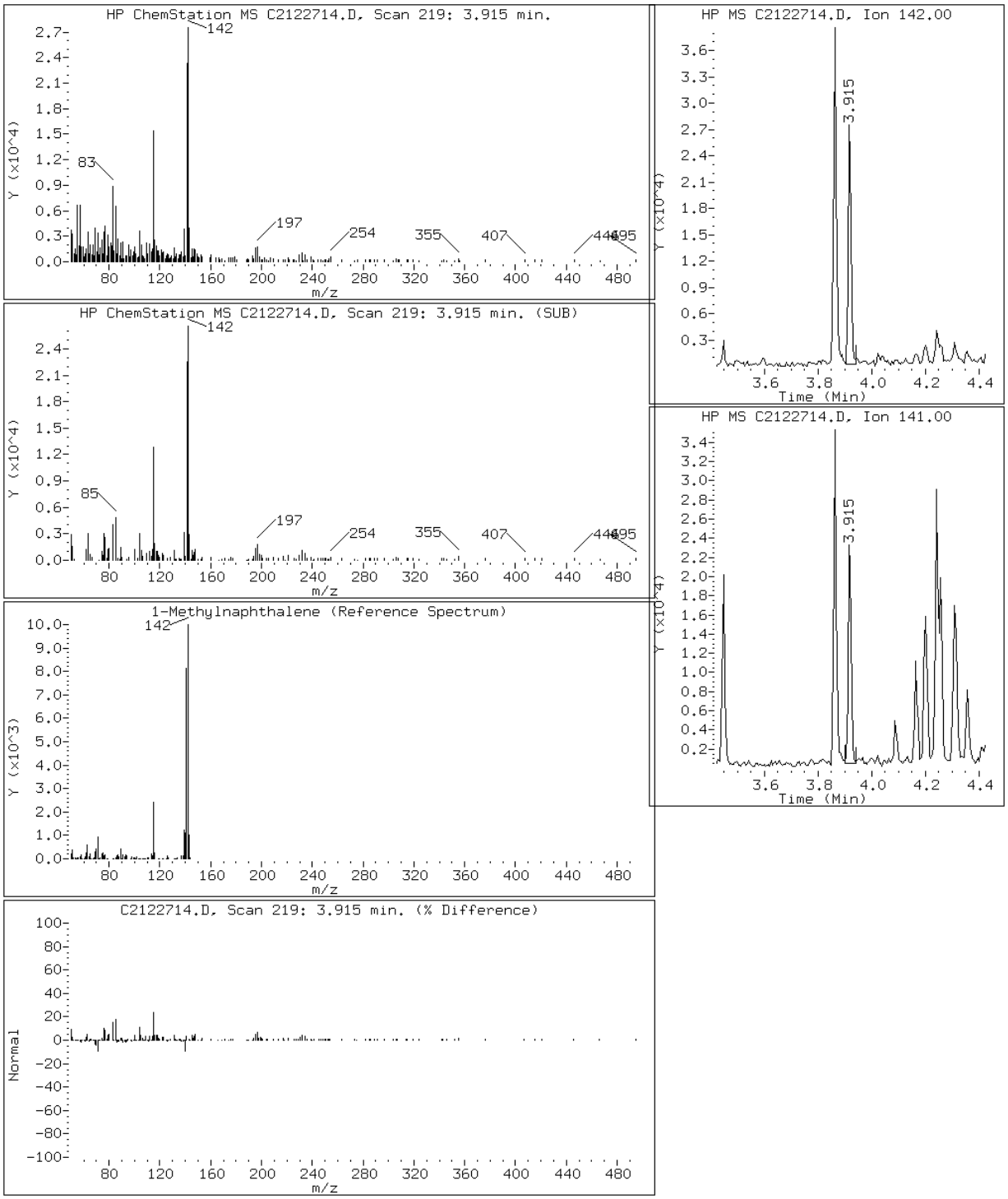
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

4 1-Methylnaphthalene



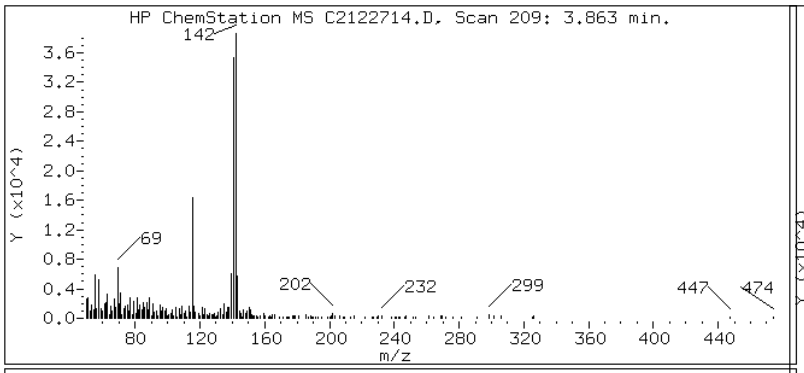
Data File: C2122714.D

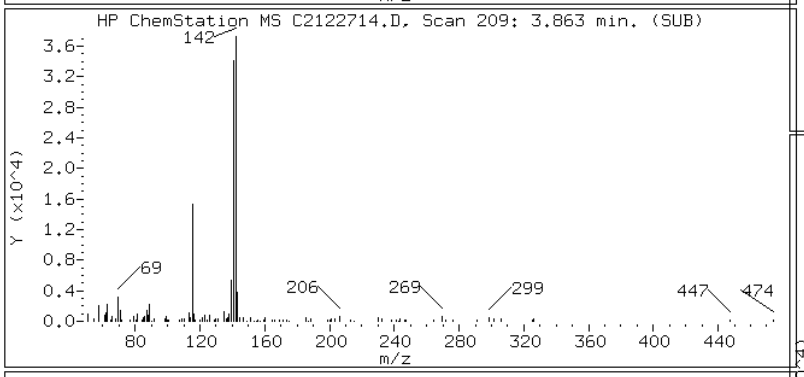
Date: 27-DEC-2012 11:16

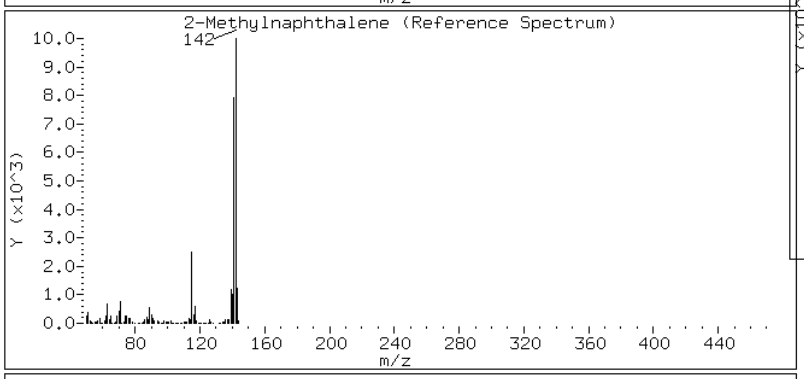
Client ID: CV0511F-CS Instrument: TSMC5973.i

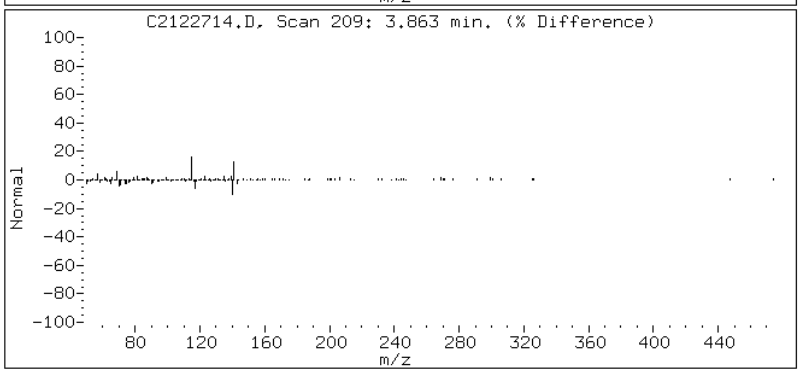
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

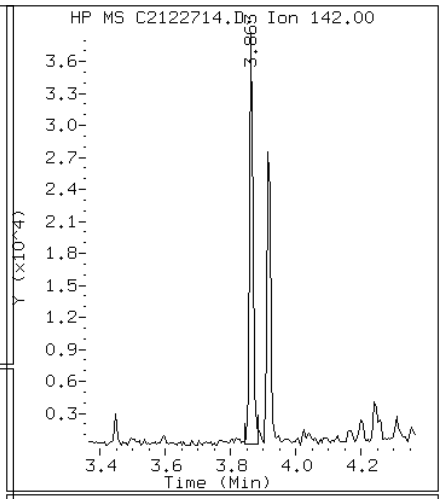
3 2-Methylnaphthalene

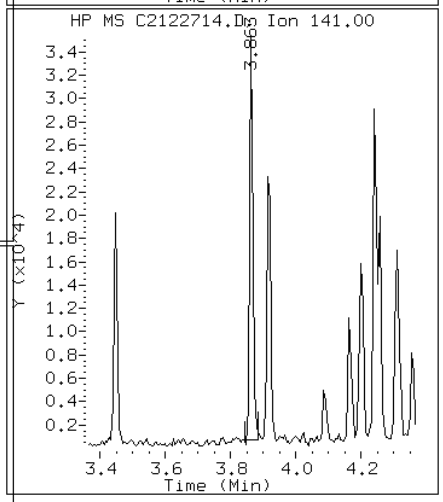












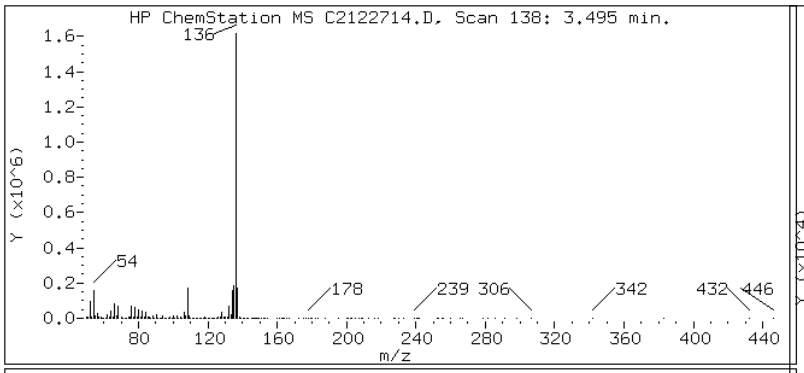
Data File: C2122714.D

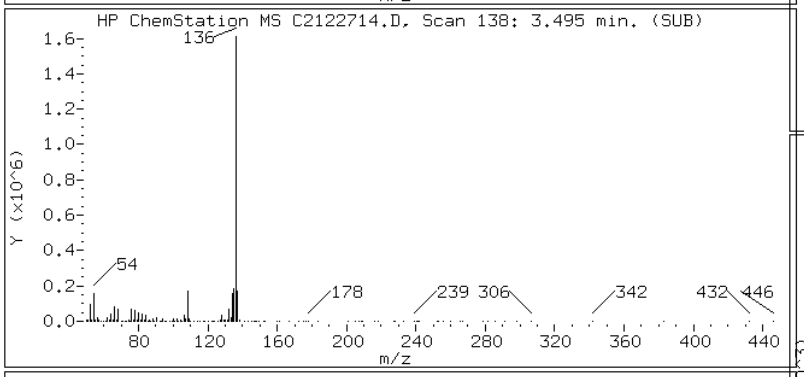
Date: 27-DEC-2012 11:16

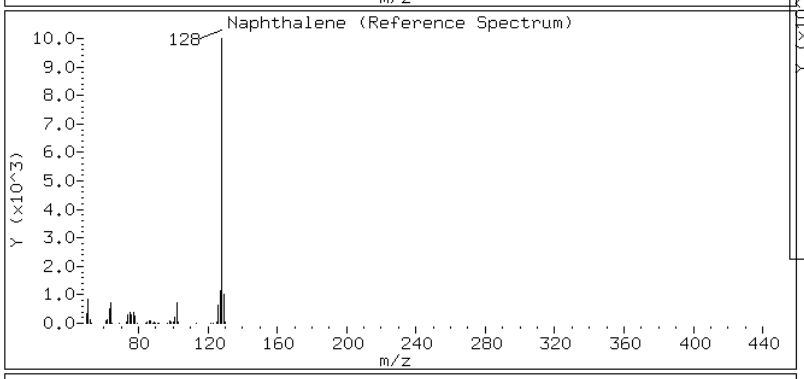
Client ID: CV0511F-CS Instrument: TSMC5973.i

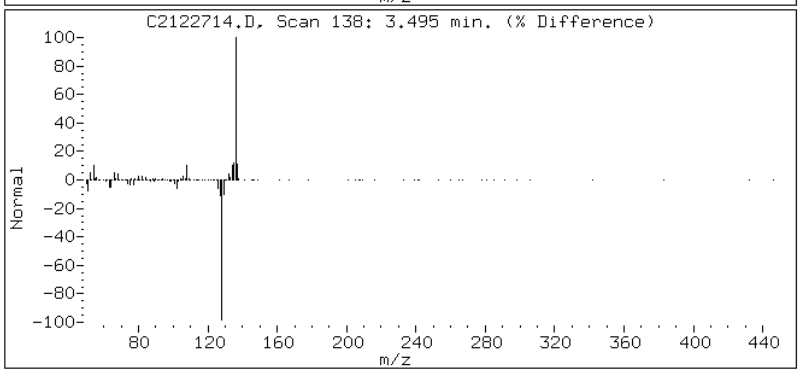
Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

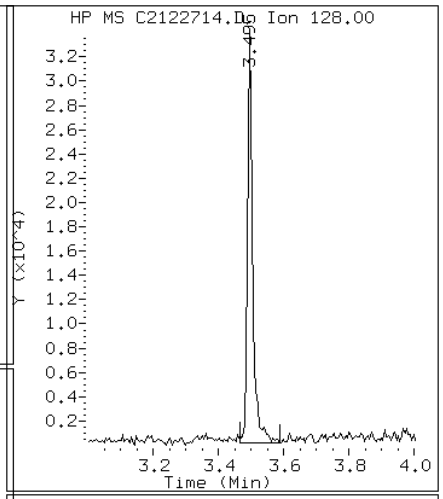
2 Naphthalene

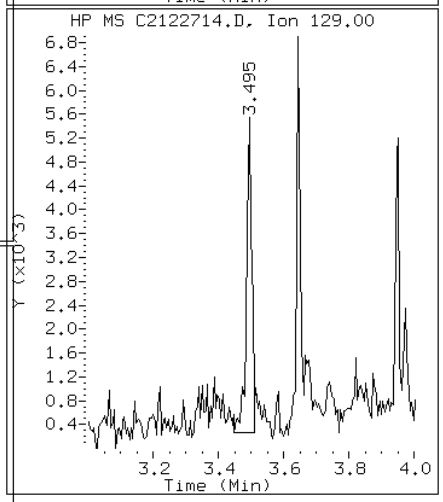












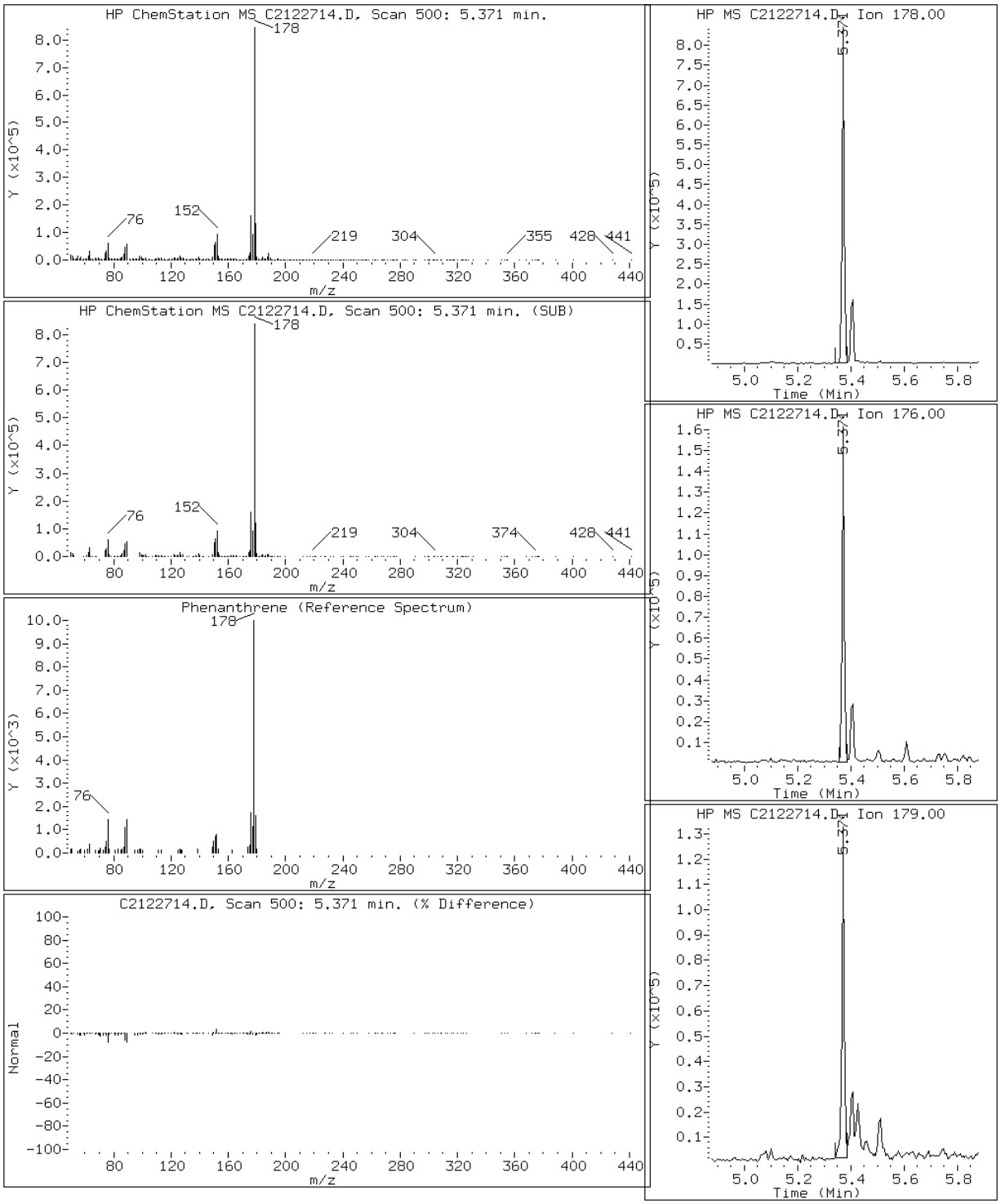
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

10 Phenanthrene



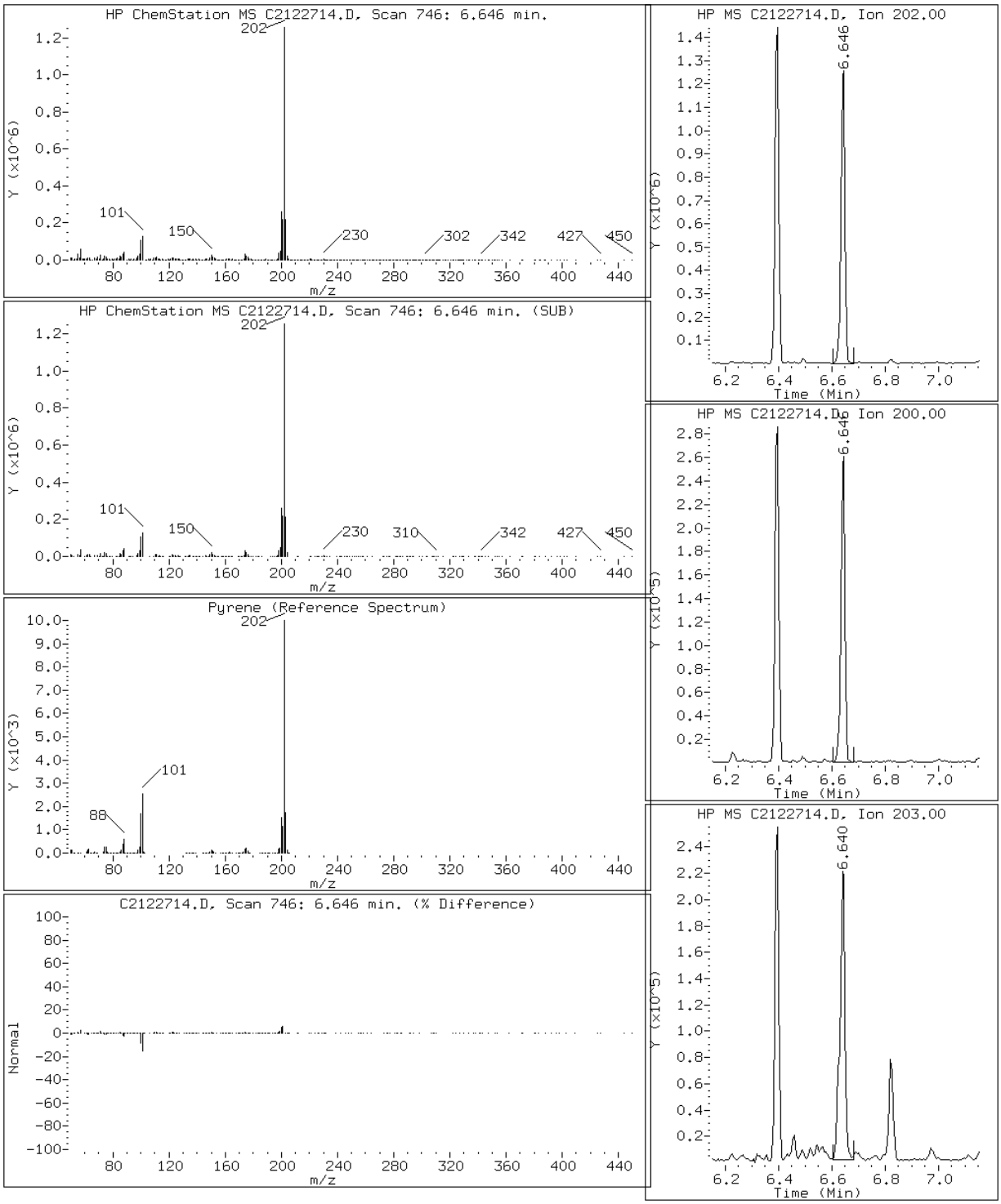
Data File: C2122714.D

Date: 27-DEC-2012 11:16

Client ID: CV0511F-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-39-A~98122~2~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122714.D
Inj. Date and Time: 27-DEC-2012 11:16
Instrument ID: TSMC5973.i
Client ID: CV0511F-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

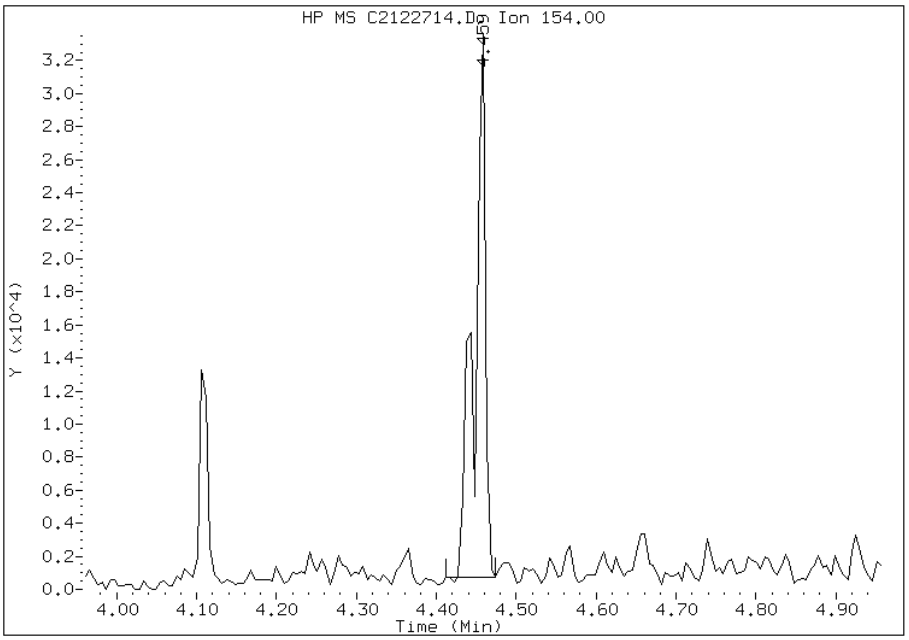
Processing Integration Results

RT: 4.46

Response: 32717

Amount: 0

Conc: 22



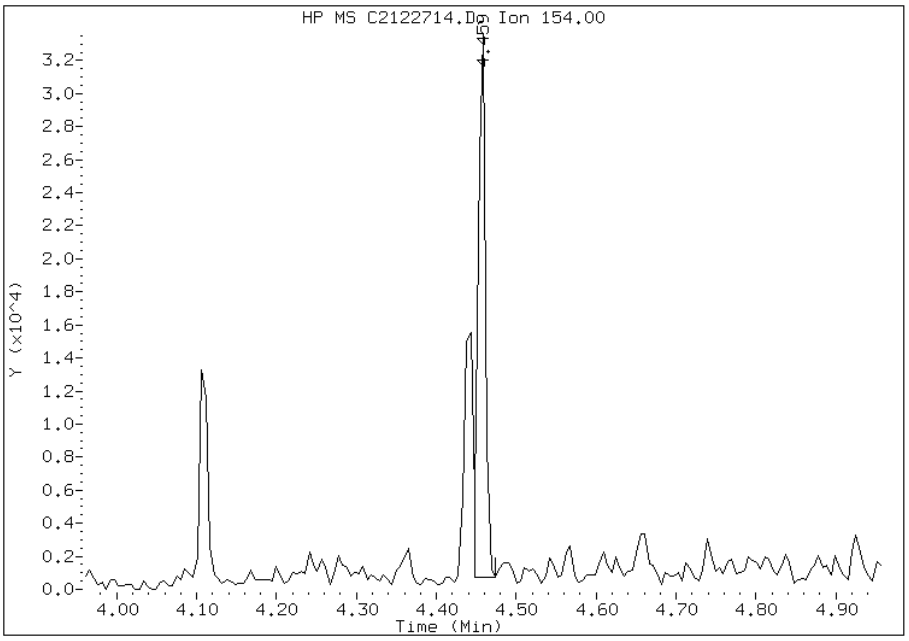
Manual Integration Results

RT: 4.46

Response: 22244

Amount: 0

Conc: 15



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 13:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511G-CS | Lab Sample ID: 680-85785-40

Matrix: Solid | Lab File ID: C2122722.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:40

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.30(g) | Date Analyzed: 12/27/2012 13:48

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 4

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

% Moisture: 35.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98300 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	210		41	3.5
208-96-8	Acenaphthylene	16	J	41	3.2
120-12-7	Anthracene	810		41	4.0
56-55-3	Benzo[a]anthracene	1900		41	3.8
50-32-8	Benzo[a]pyrene	1800		41	4.2
205-99-2	Benzo[b]fluoranthene	2200		41	5.7
191-24-2	Benzo[g,h,i]perylene	640		41	6.7
207-08-9	Benzo[k]fluoranthene	870		41	3.9
218-01-9	Chrysene	2000		41	4.6
53-70-3	Dibenz(a,h)anthracene	210		41	4.0
206-44-0	Fluoranthene	3900		41	3.7
86-73-7	Fluorene	260		41	3.2
193-39-5	Indeno[1,2,3-cd]pyrene	760		41	6.7
90-12-0	1-Methylnaphthalene	44		41	3.2
91-57-6	2-Methylnaphthalene	53		41	3.2
91-20-3	Naphthalene	45		41	3.2
85-01-8	Phenanthrene	3500		41	2.7
129-00-0	Pyrene	3300		41	3.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	93		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122722.D
Lab Smp Id: 680-85785-A-40-A Client Smp ID: CV0511G-CS
Inj Date : 27-DEC-2012 13:48
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-40-A~98122~4~8270DLL
Misc Info : 1C121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:45 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 9
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.300	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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.282	3.282	(0.942)	40903	0.68717	91	
* 1 Naphthalene-d8	136	3.484	3.489	(1.000)	5531803	40.0000		
2 Naphthalene	128	3.495	3.500	(1.003)	29907	0.22123	29	
3 2-Methylnaphthalene	142	3.863	3.863	(1.109)	26514	0.25844	34	
4 1-Methylnaphthalene	142	3.914	3.920	(1.123)	21722	0.21585	28	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3169396	40.0000		
6 Acenaphthylene	152	4.360	4.365	(0.981)	13368	0.07849	10(a)	
7 Acenaphthene	154	4.458	4.459	(1.003)	90049	1.01063	130(M)	SP
8 Fluorene	166	4.749	4.754	(1.069)	149859	1.25989	170	
* 9 Phenanthrene-d10	188	5.355	5.360	(1.000)	5211871	40.0000		
10 Phenanthrene	178	5.376	5.376	(1.004)	2452730	16.9556	2200	
11 Anthracene	178	5.407	5.412	(1.010)	619664	3.95901	520	
$ 12 o-Terphenyl	230	5.609	5.614	(1.047)	89614	0.92986	120	
13 Fluoranthene	202	6.402	6.402	(1.195)	3683898	18.9519	2500	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.299	8.299	(1.000)	6126779	40.0000		
15 Pyrene	202	6.651	6.651	(0.801)	3746871	16.3236	2200	
16 Benzo(a)anthracene	228	8.267	8.267	(0.996)	1918029	9.16899	1200	
17 Chrysene	228	8.330	8.330	(1.004)	1787434	9.86336	1300	
* 18 Perylene-d12	264	10.734	10.734	(1.000)	6448103	40.0000		
19 Benzo(b)fluoranthene	252	10.060	10.061	(0.937)	2207347	10.7460	1400	
20 Benzo(k)fluoranthene	252	10.102	10.107	(0.941)	851306	4.27062	560	
21 Benzo(a)pyrene	252	10.610	10.610	(0.988)	1621792	8.91099	1200	
22 Indeno(1,2,3-cd)pyrene	276	12.449	12.460	(1.160)	730774	3.75261	500	
23 Dibenzo(a,h)anthracene	278	12.486	12.501	(1.163)	193657	1.02527	140	
24 Benzo(g,h,i)perylene	276	12.859	12.869	(1.198)	597807	3.12058	410	

QC Flag Legend

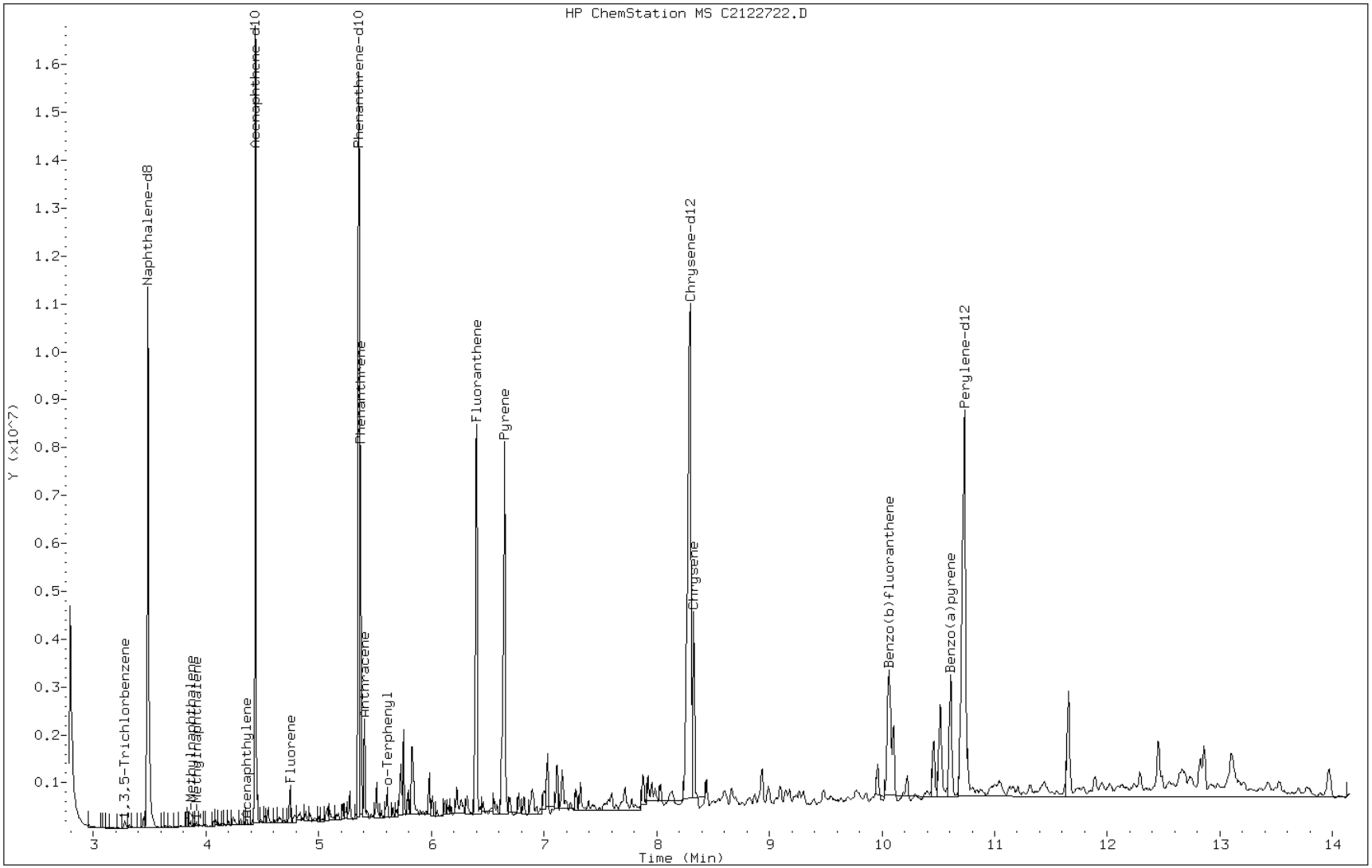
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW



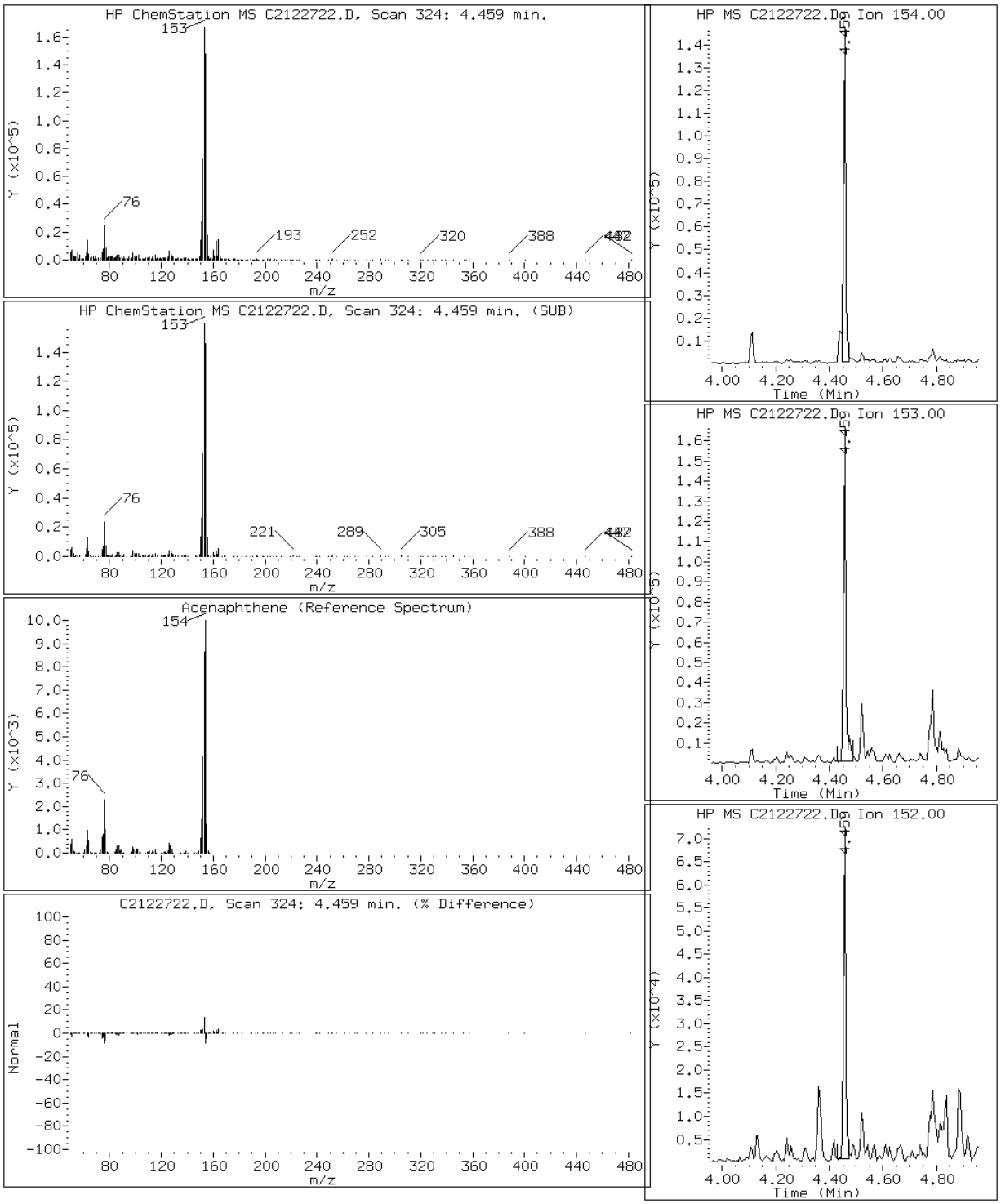
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

7 Acenaphthene



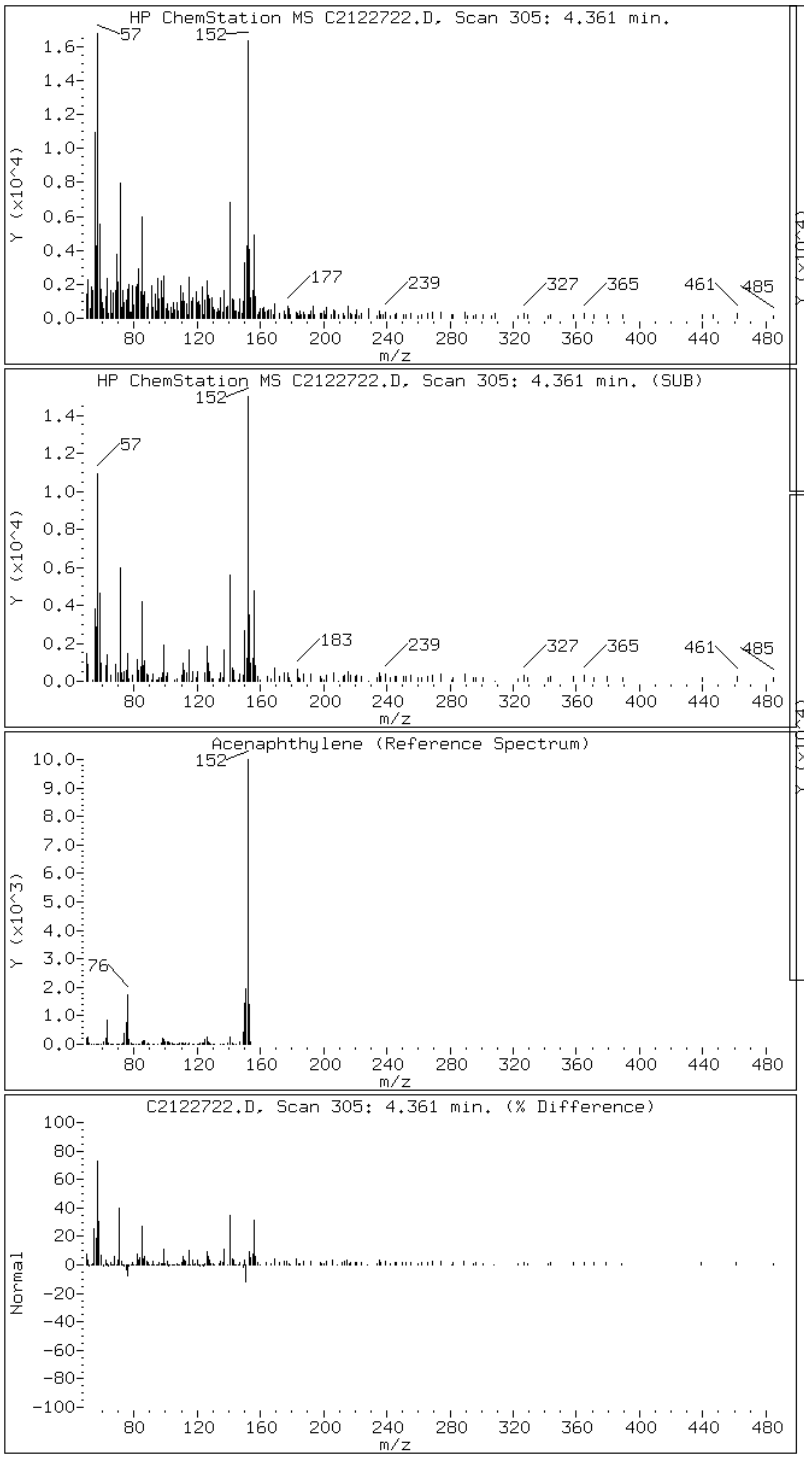
Data File: C2122722.D

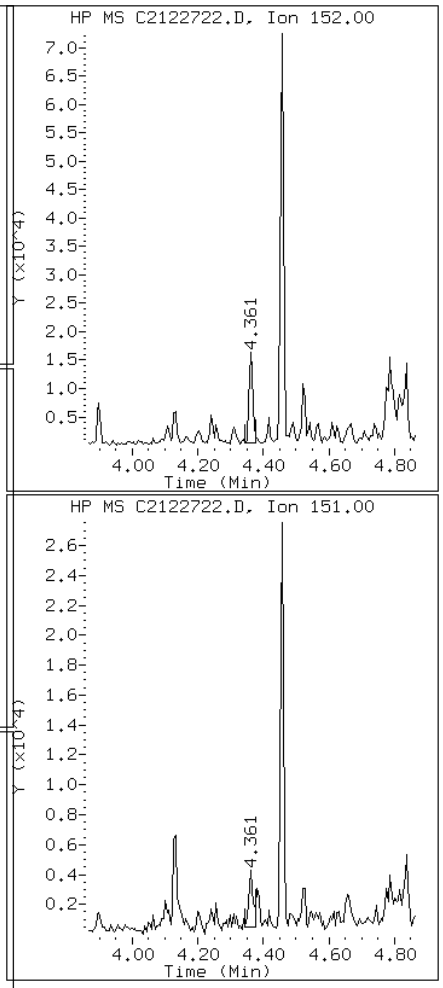
Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

6 Acenaphthylene





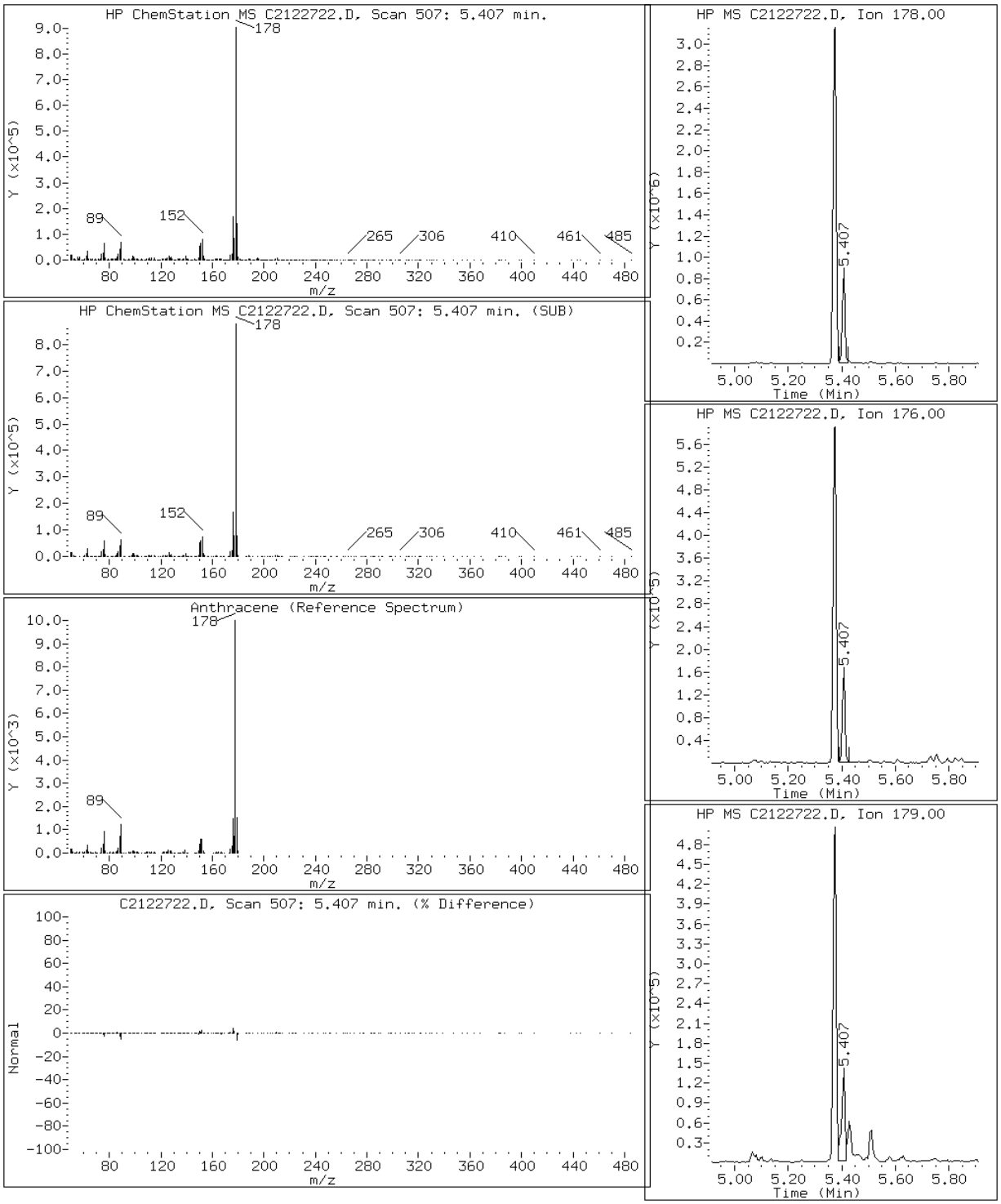
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

11 Anthracene



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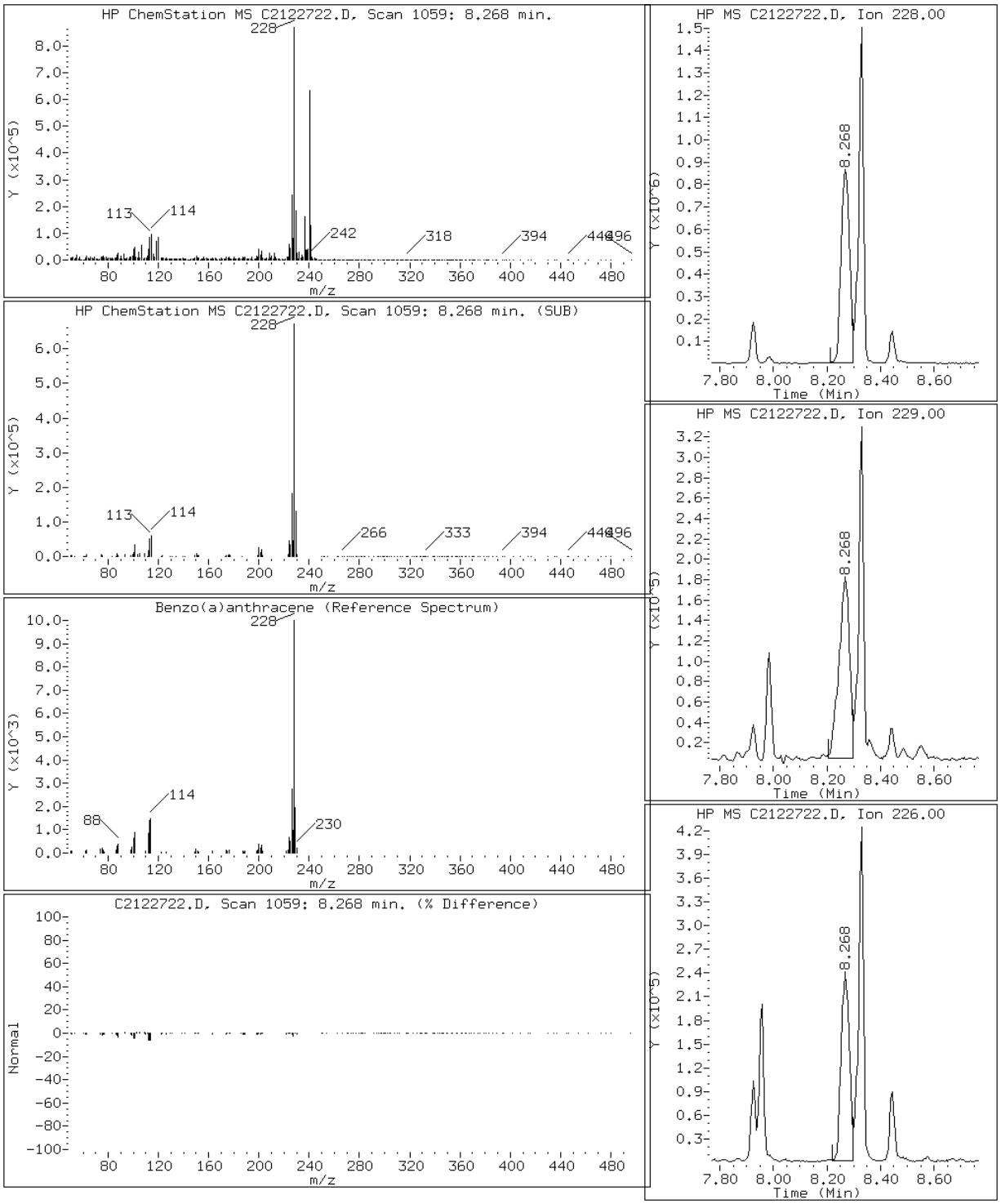
Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

16 Benzo(a)anthracene



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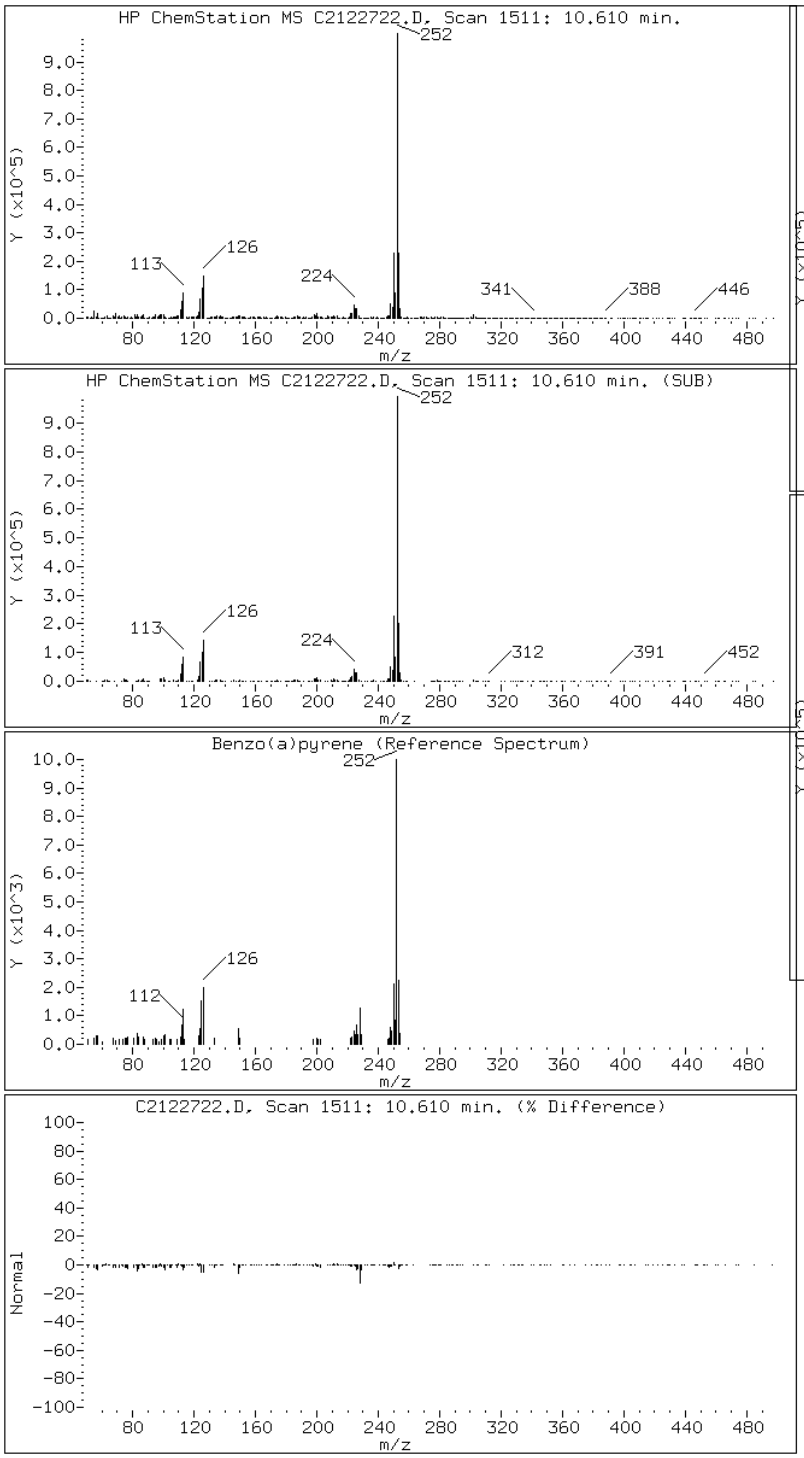
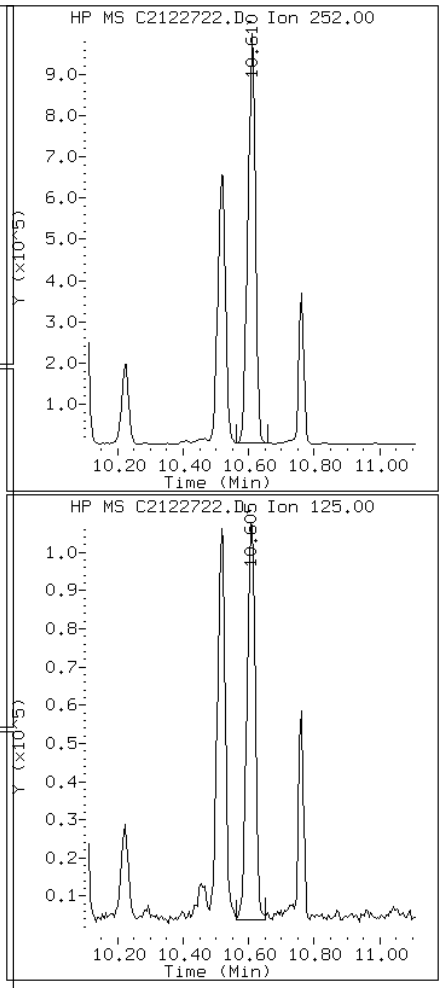
Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

21 Benzo(a)pyrene





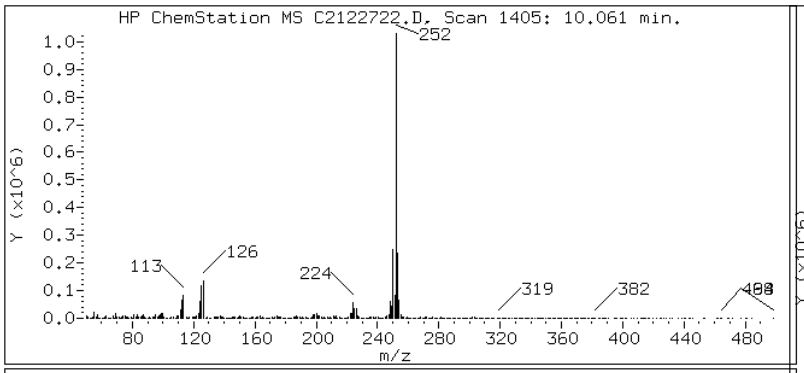
Data File: C2122722.D

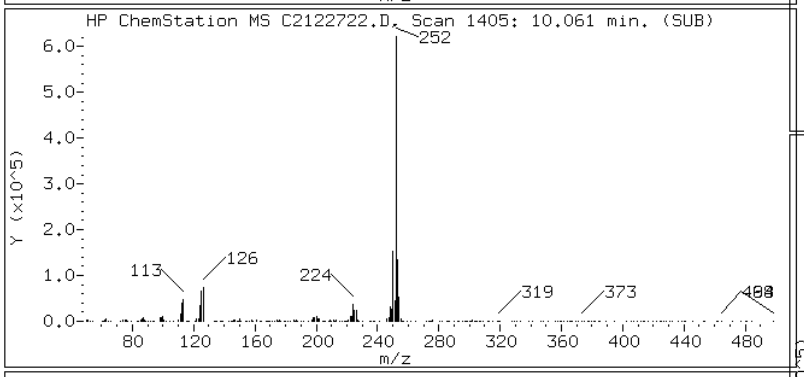
Date: 27-DEC-2012 13:48

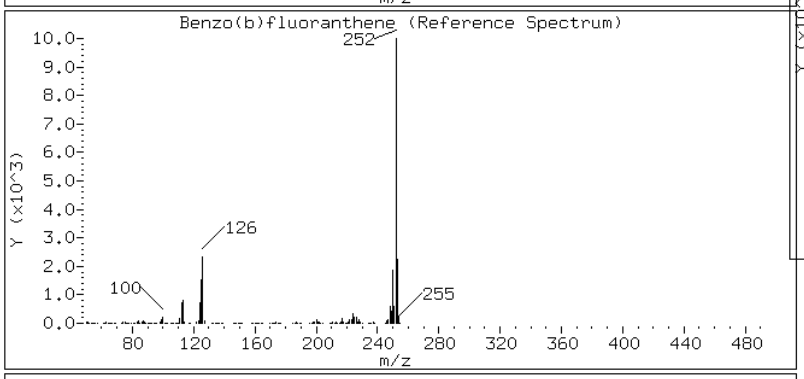
Client ID: CV0511G-CS Instrument: TSMC5973.i

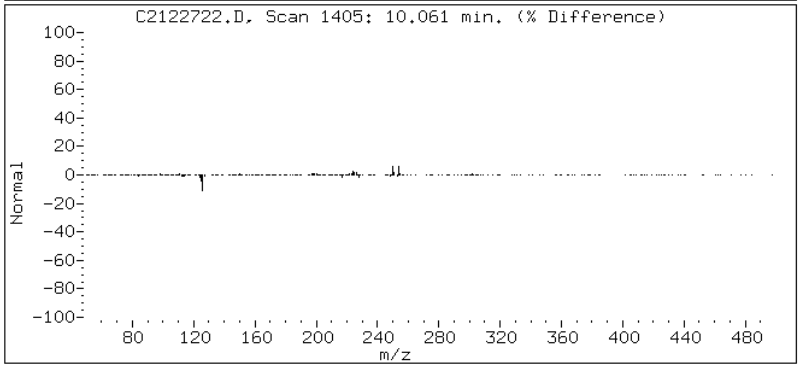
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

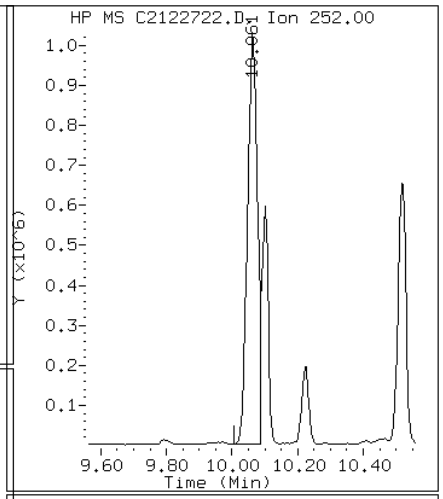
19 Benzo(b)fluoranthene

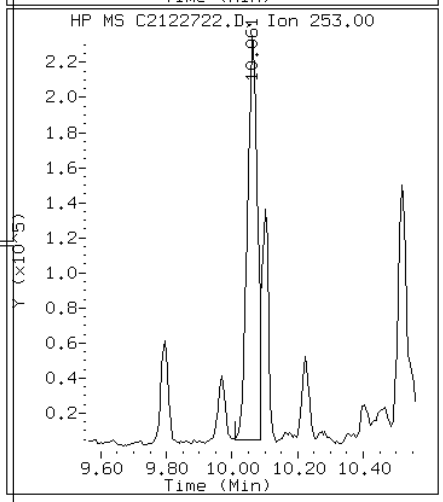












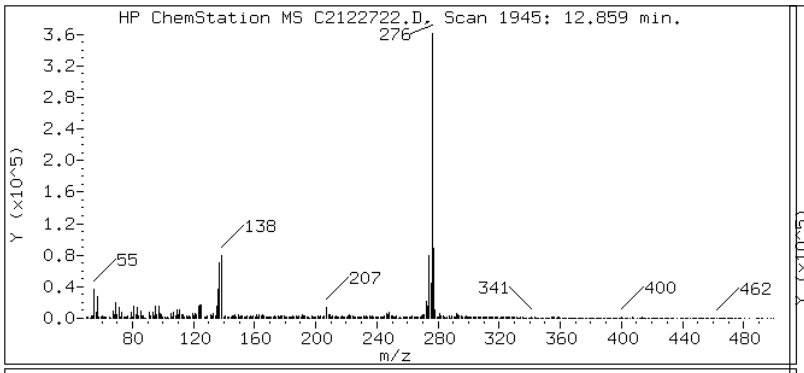
Data File: C2122722.D

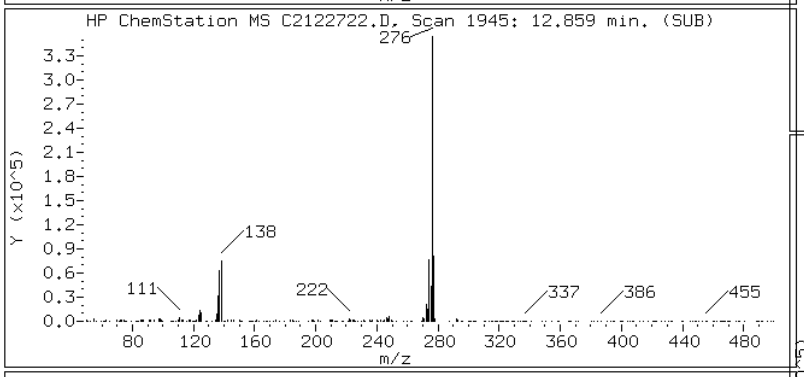
Date: 27-DEC-2012 13:48

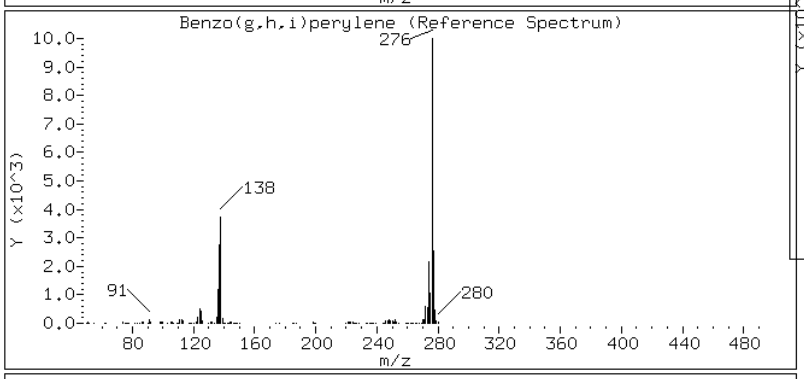
Client ID: CV0511G-CS Instrument: TSMC5973.i

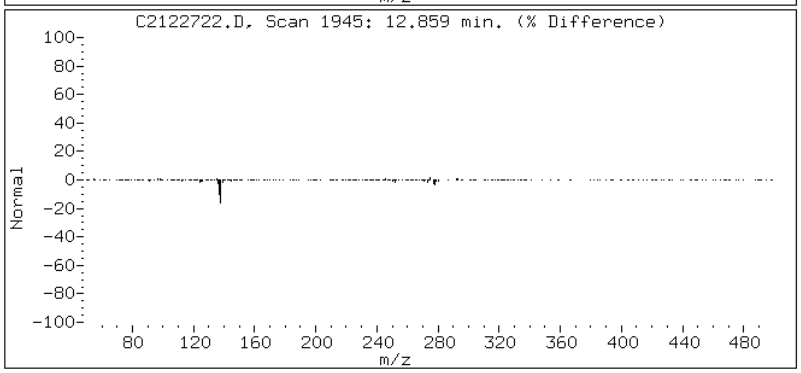
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

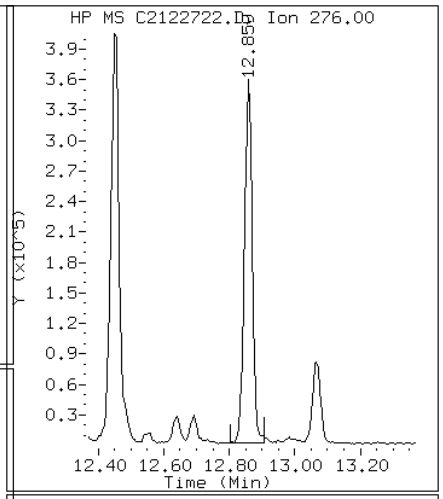
24 Benzo(g,h,i)perylene

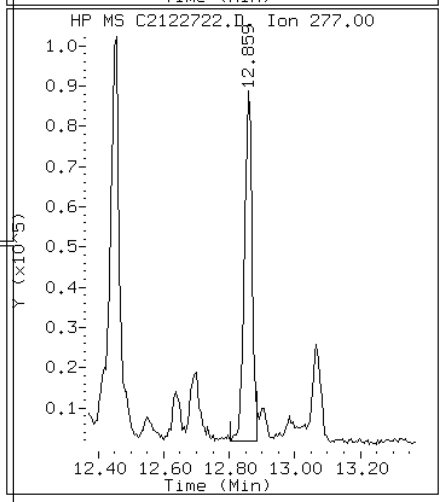












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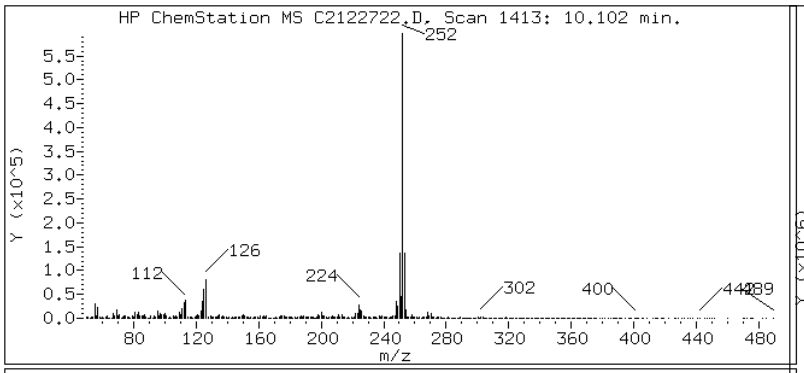
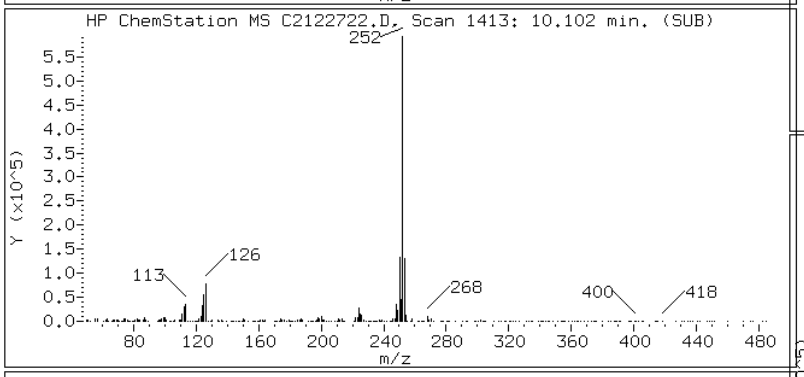
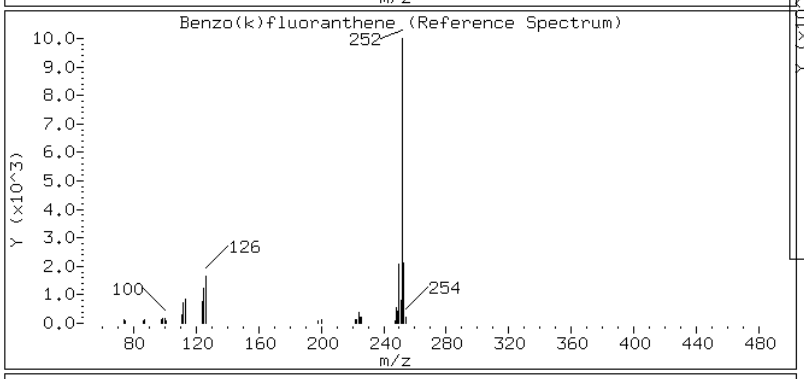
Client ID: CV0511G-CS Instrument: TSMC5973.i

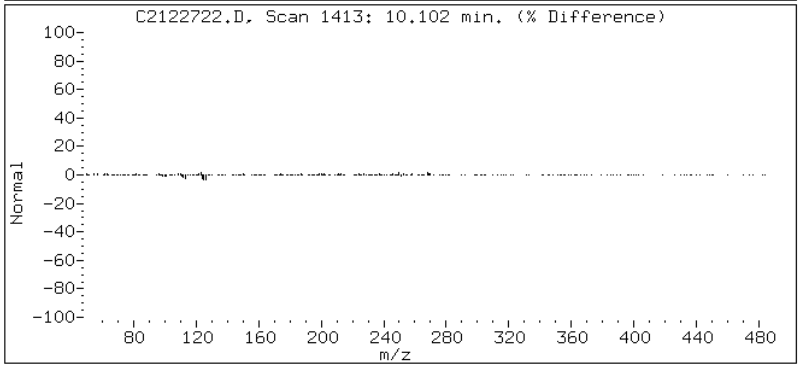
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

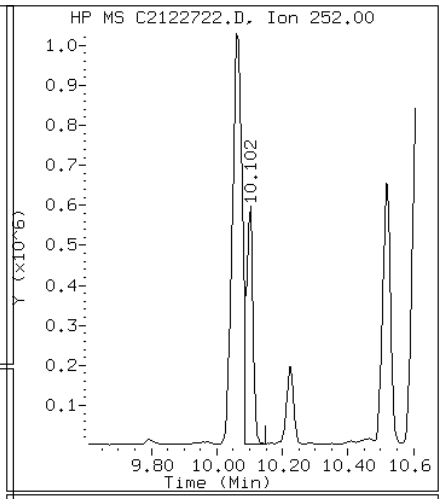
20 Benzo(k)fluoranthene

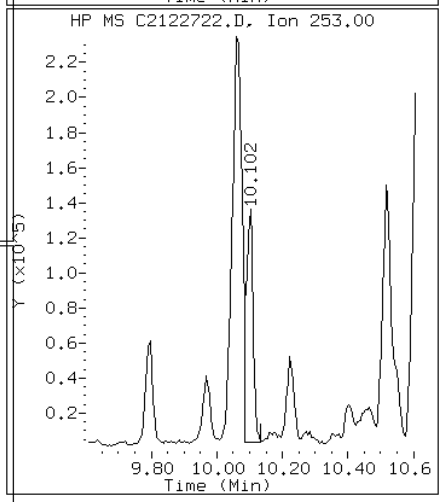












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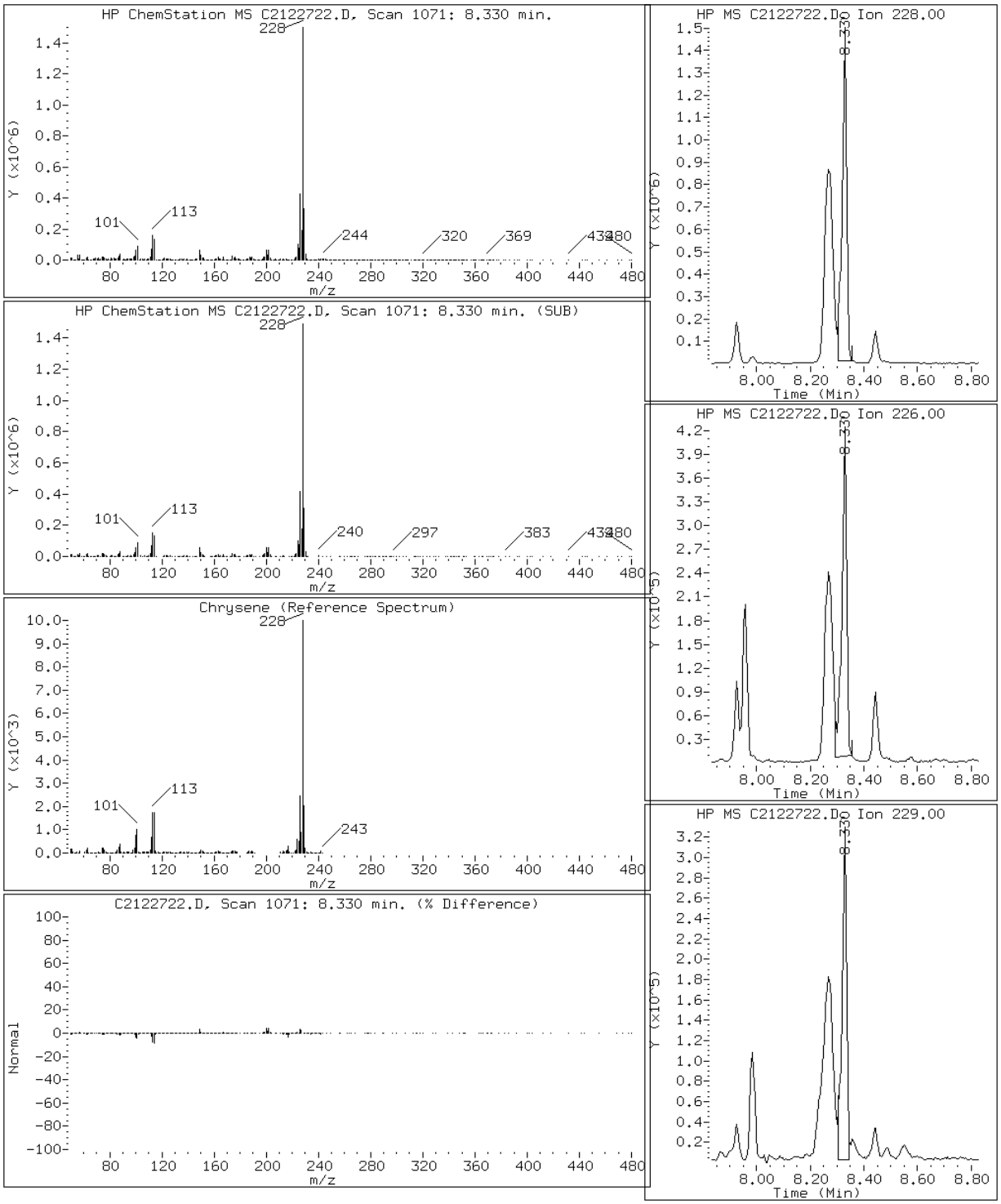
Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

17 Chrysene



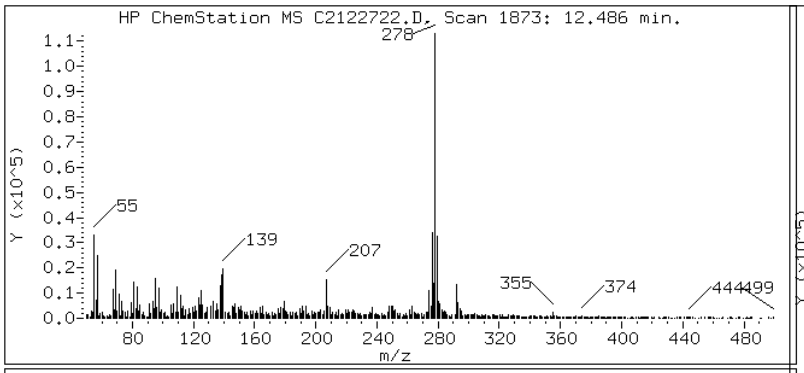
Data File: C2122722.D

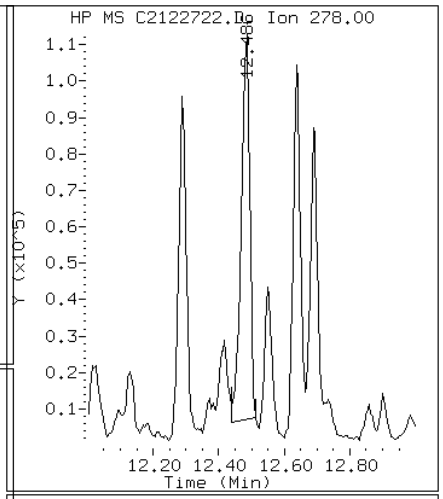
Date: 27-DEC-2012 13:48

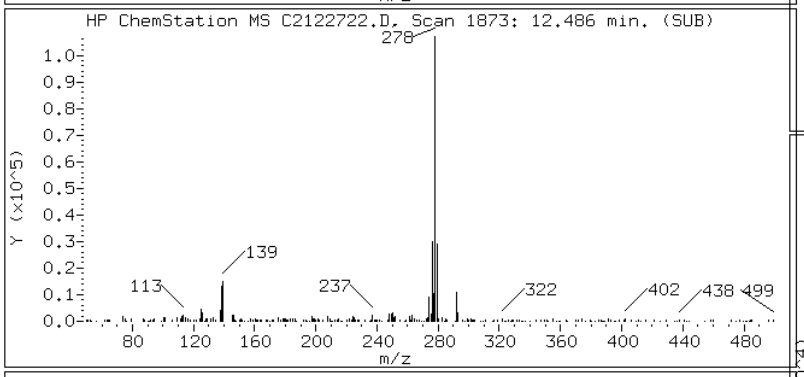
Client ID: CV0511G-CS Instrument: TSMC5973.i

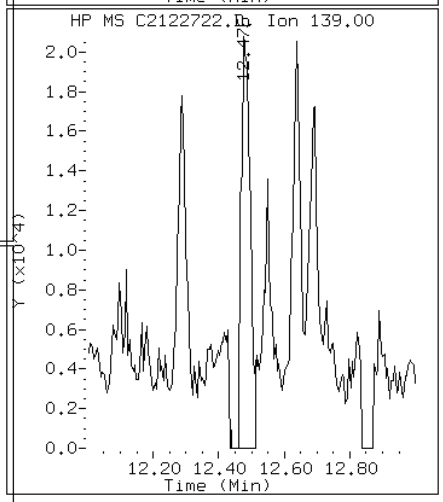
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

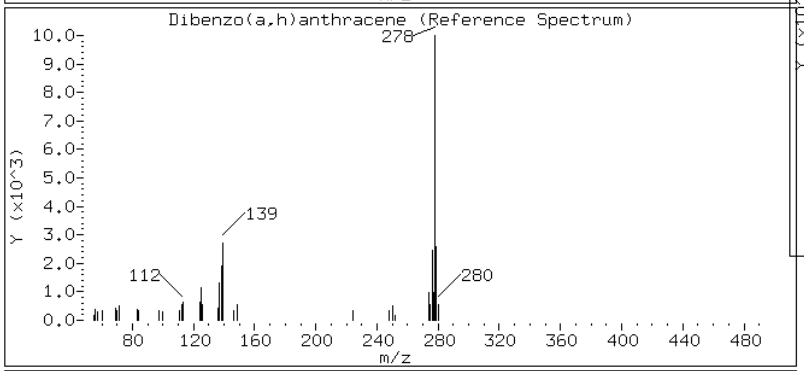
23 Dibenzo(a,h)anthracene

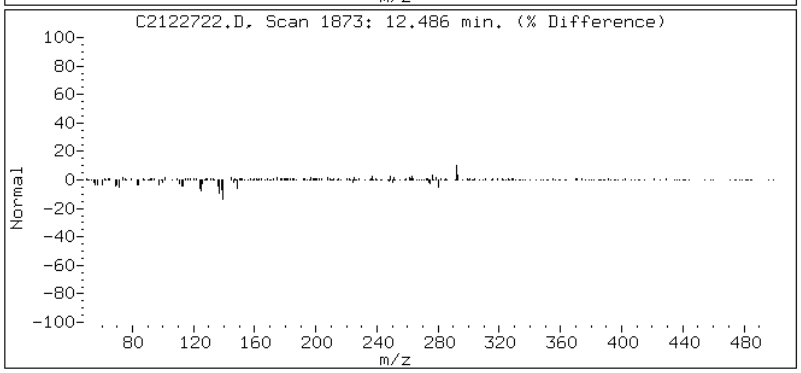












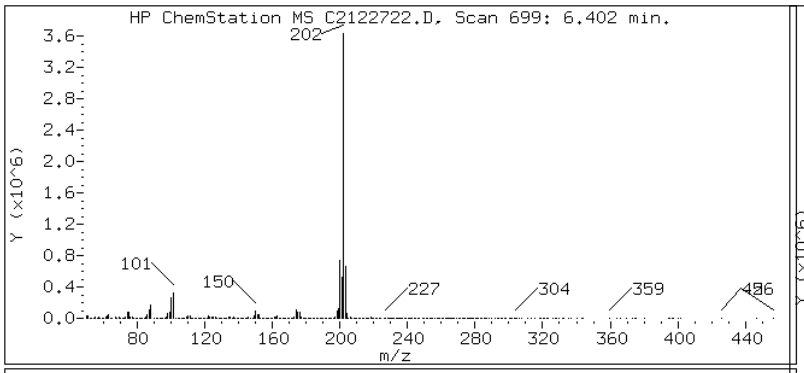
Data File: C2122722.D

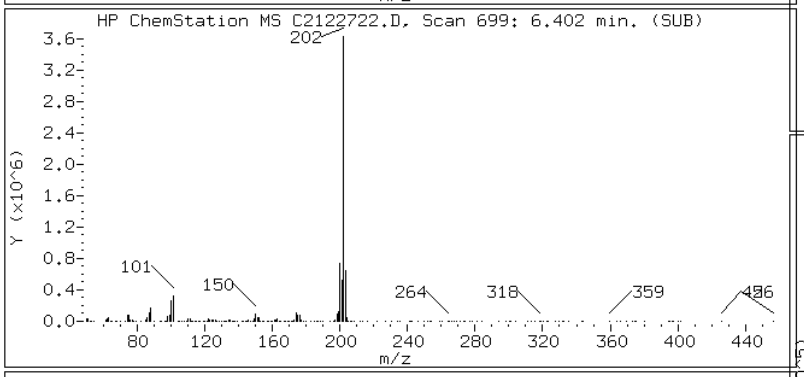
Date: 27-DEC-2012 13:48

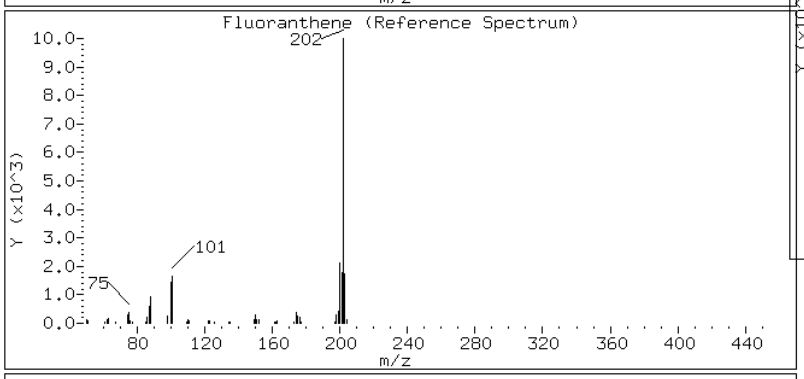
Client ID: CV0511G-CS Instrument: TSMC5973.i

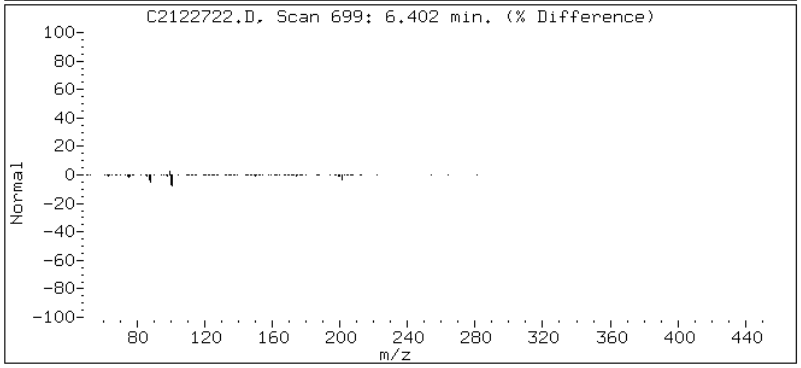
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

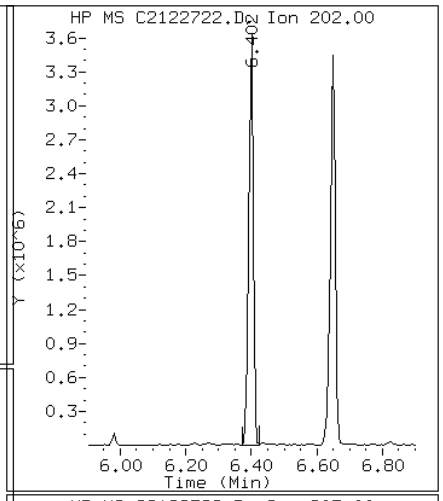
13 Fluoranthene

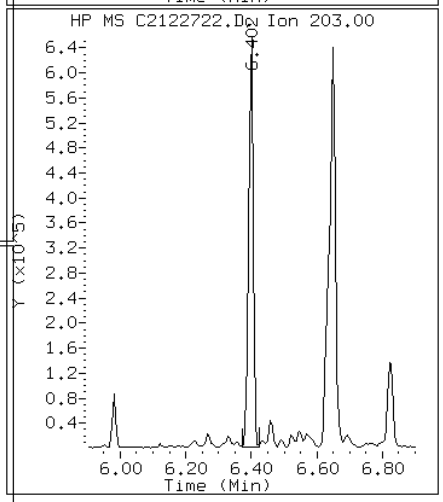












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Date: 27-DEC-2012 13:48

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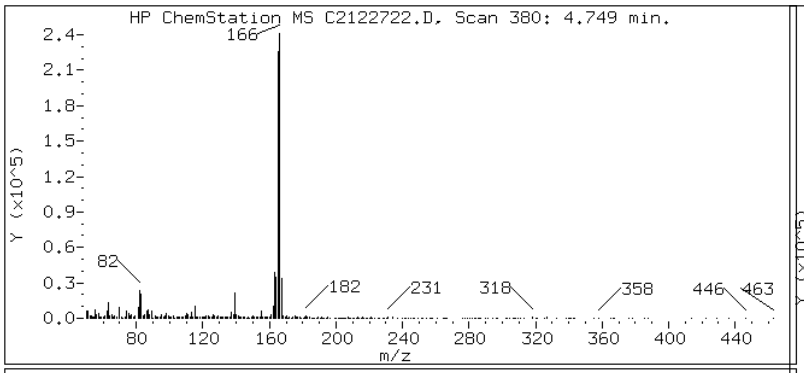
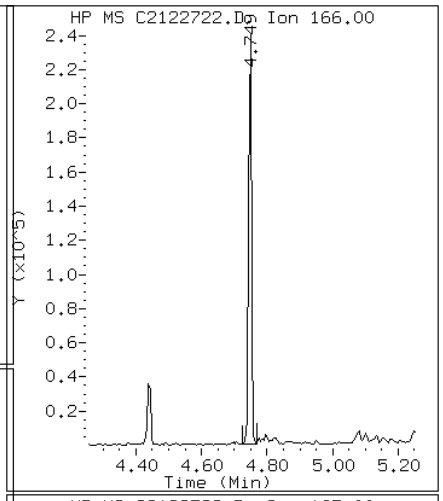
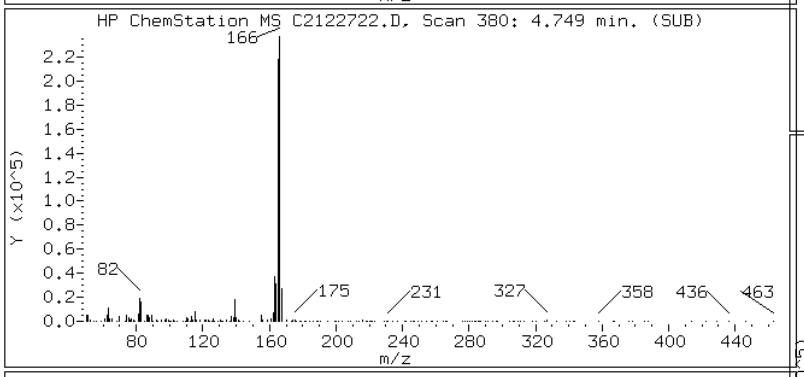
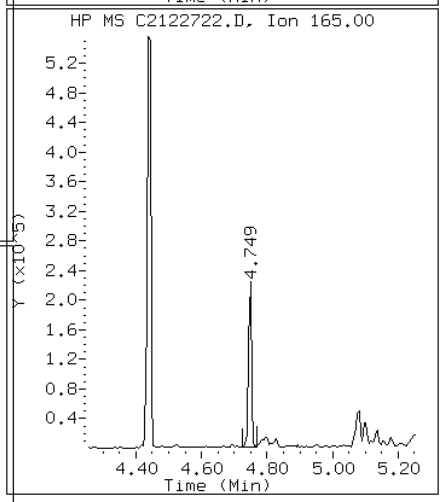
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

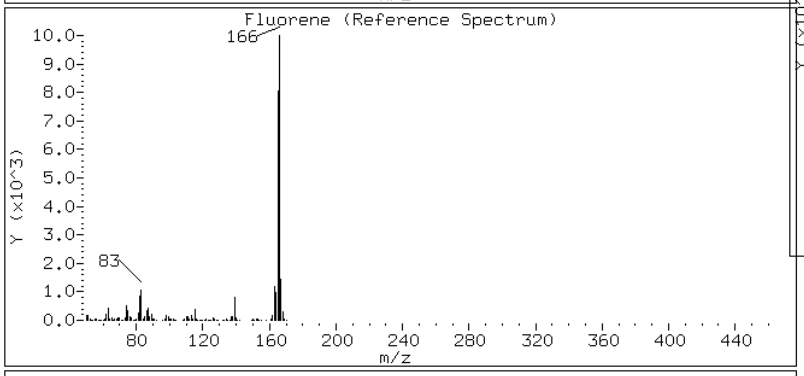
8 Fluorene

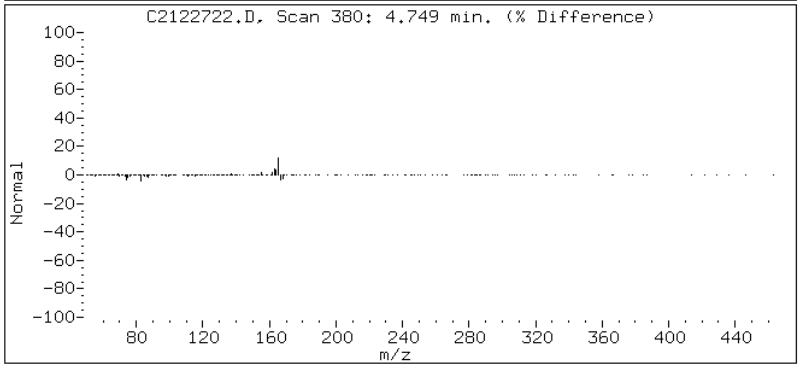












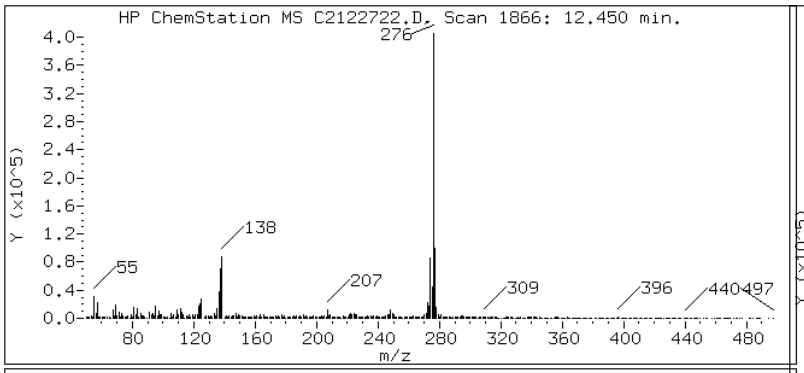
Data File: C2122722.D

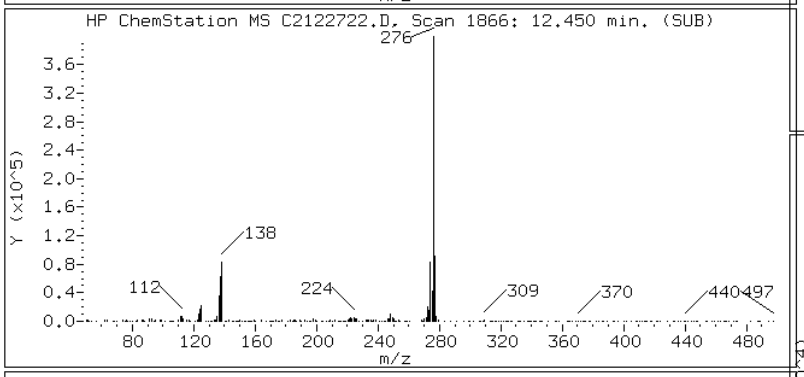
Date: 27-DEC-2012 13:48

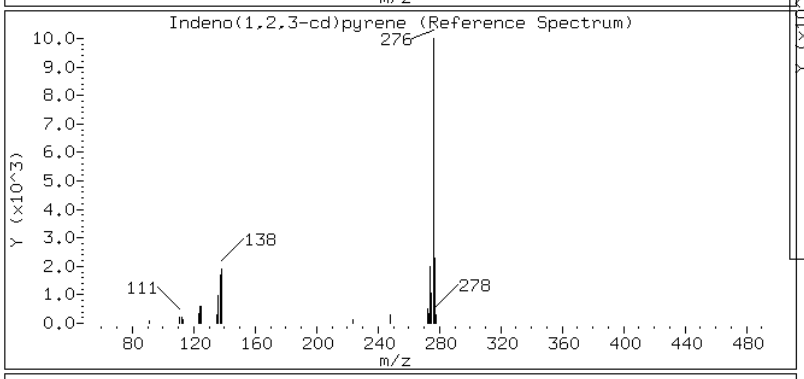
Client ID: CV0511G-CS Instrument: TSMC5973.i

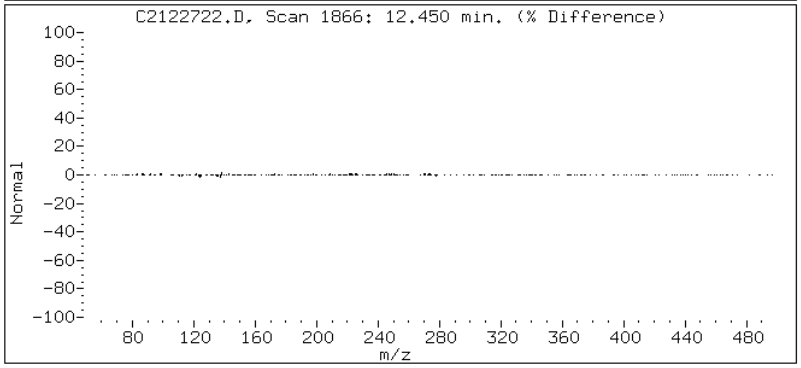
Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

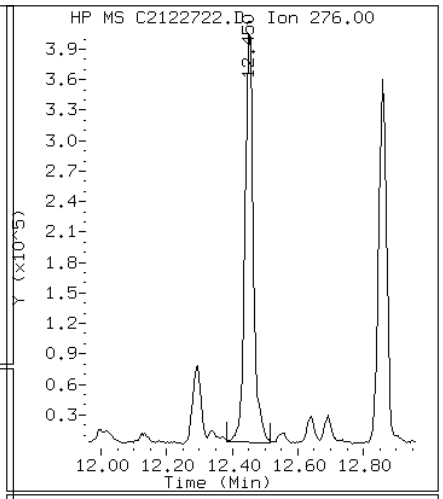
22 Indeno(1,2,3-cd)pyrene

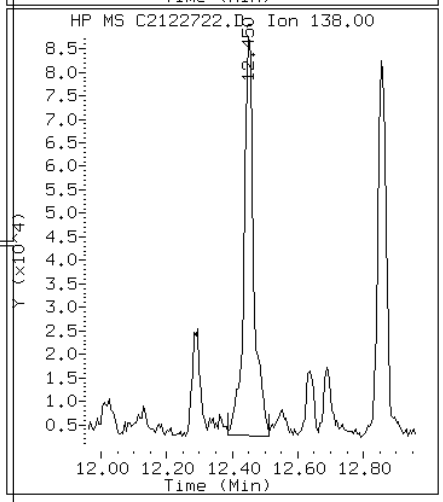












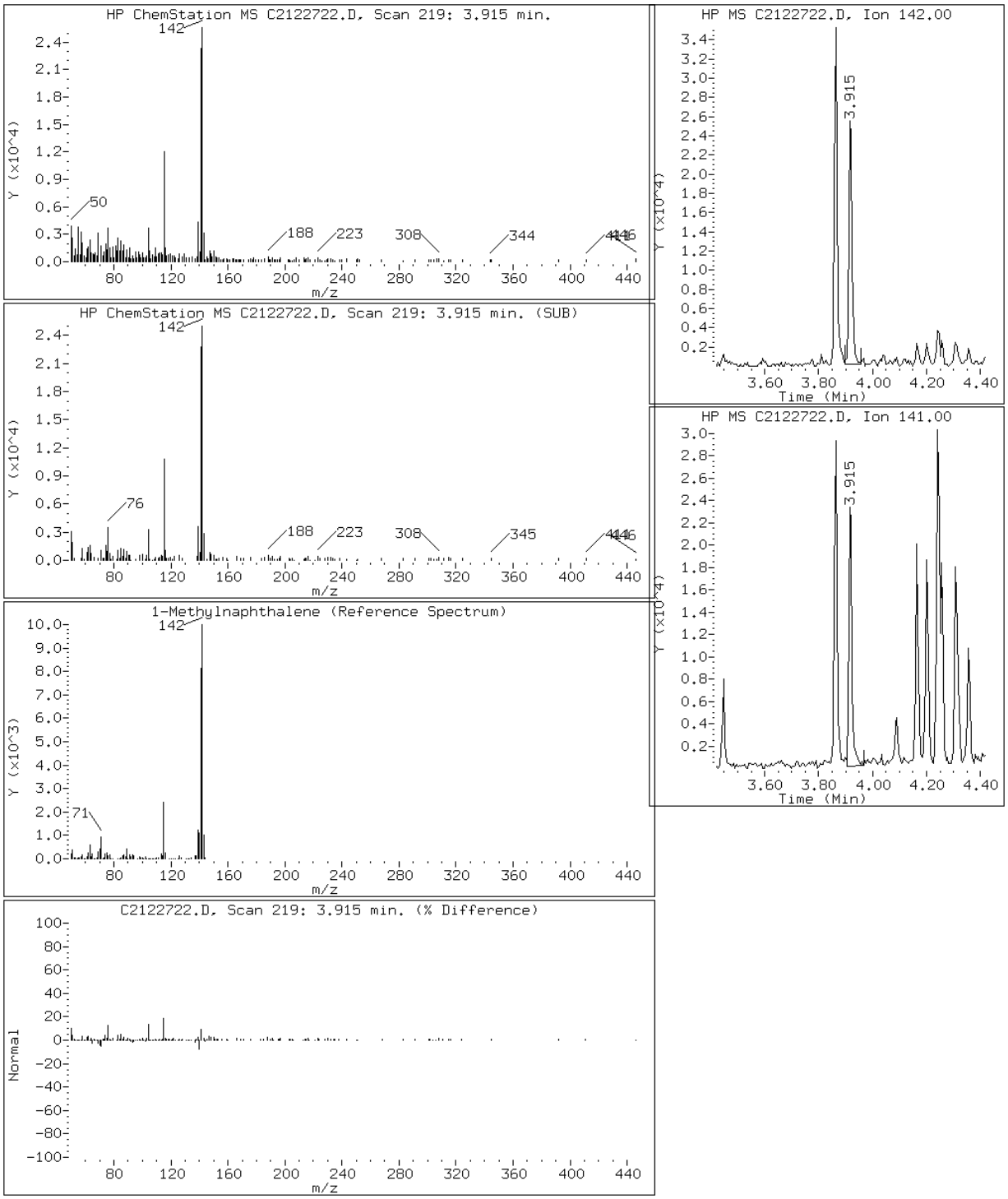
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

4 1-Methylnaphthalene



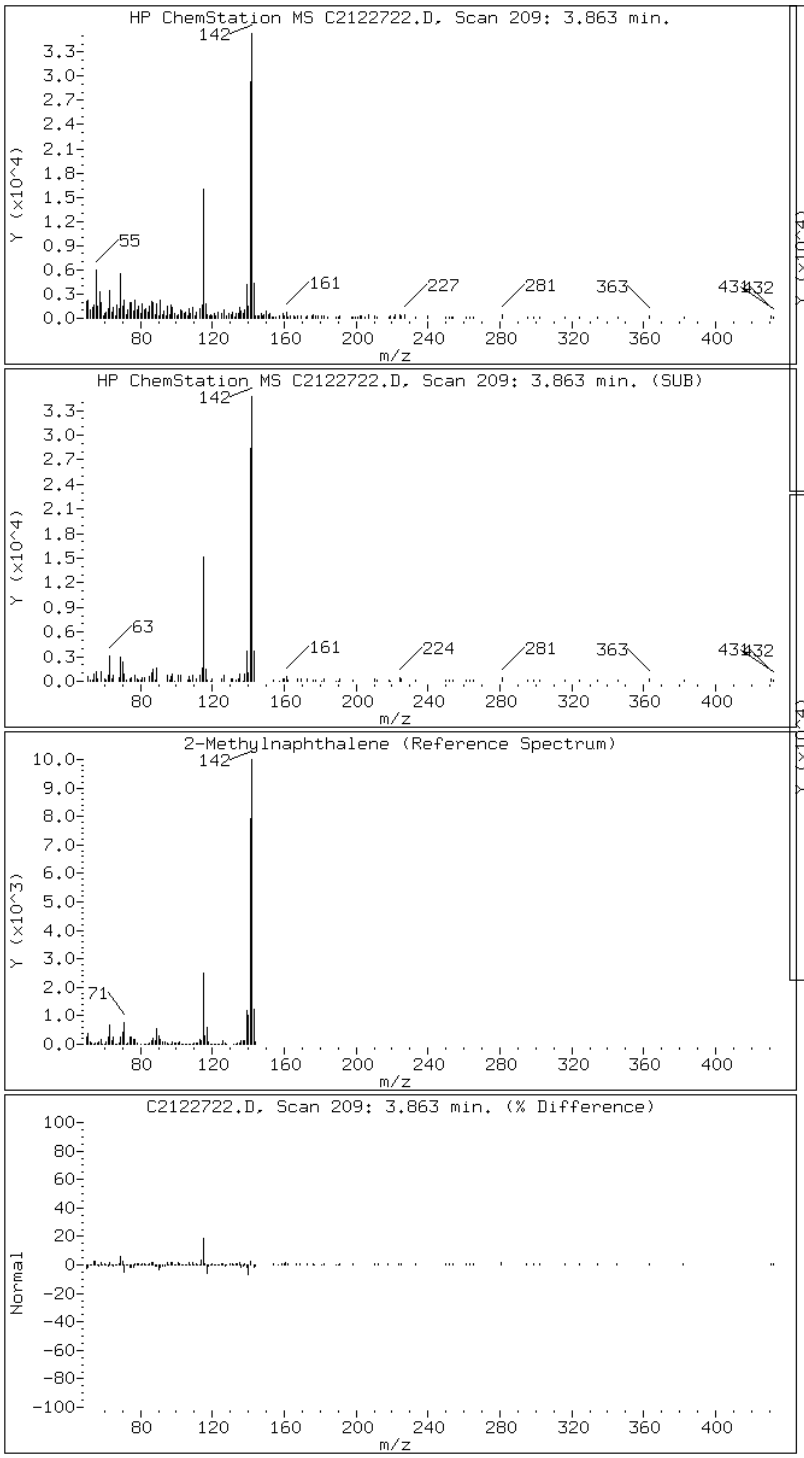
Data File: C2122722.D

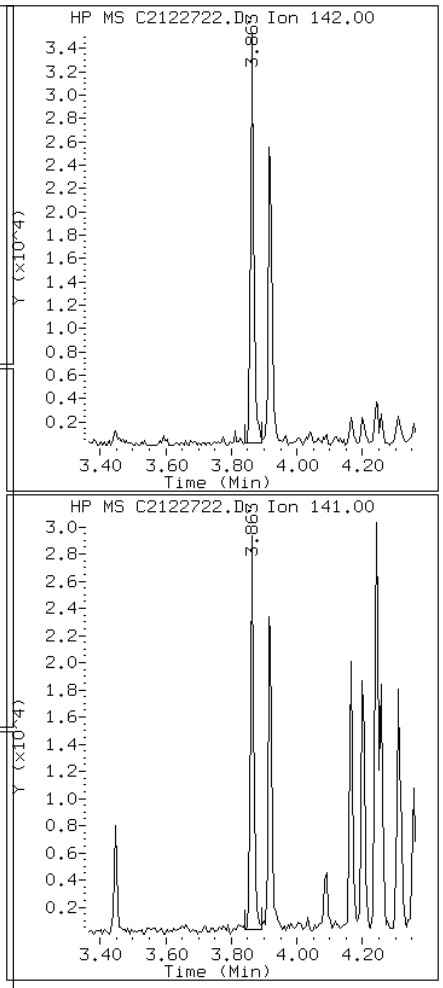
Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

3 2-Methylnaphthalene





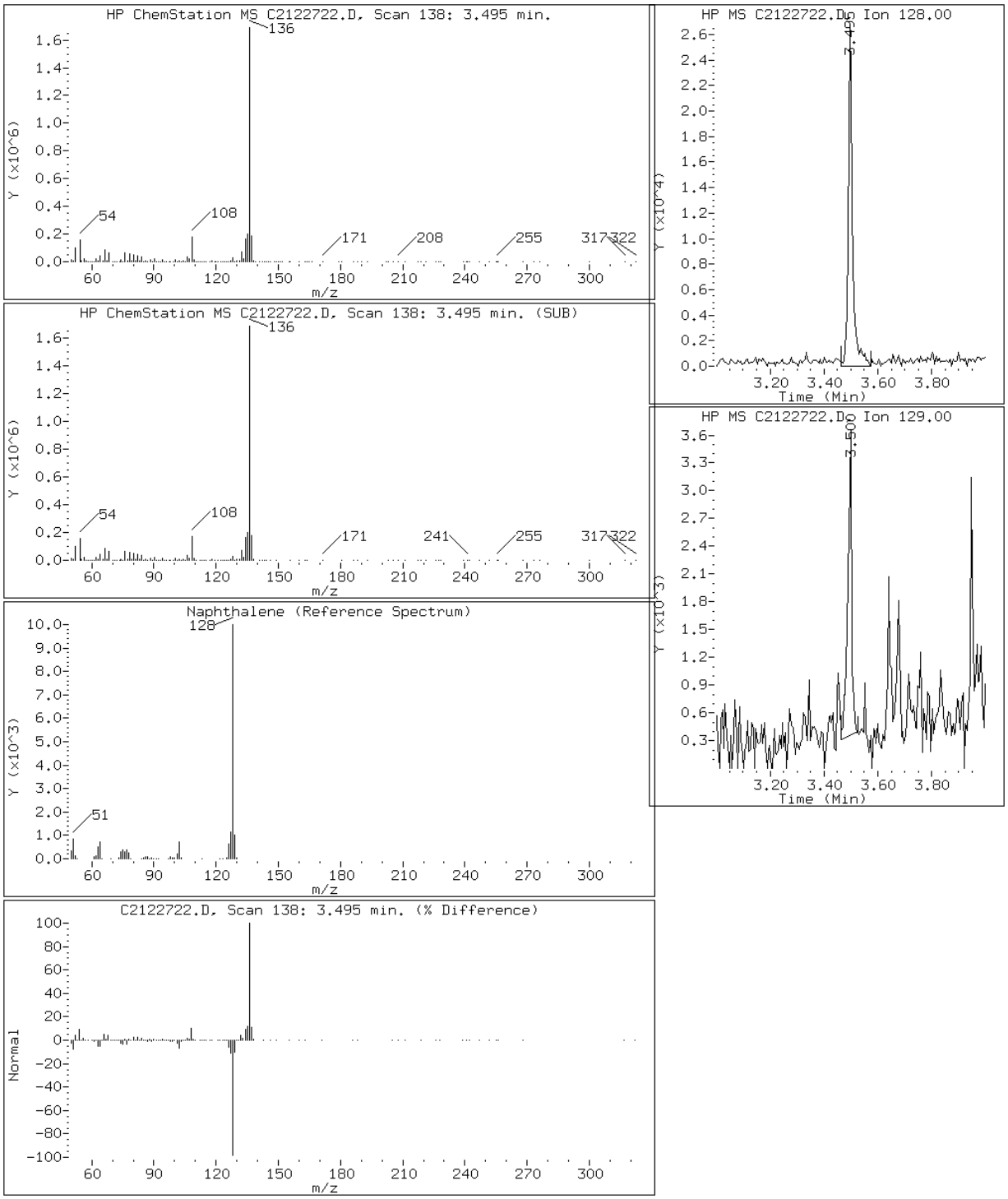
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

2 Naphthalene



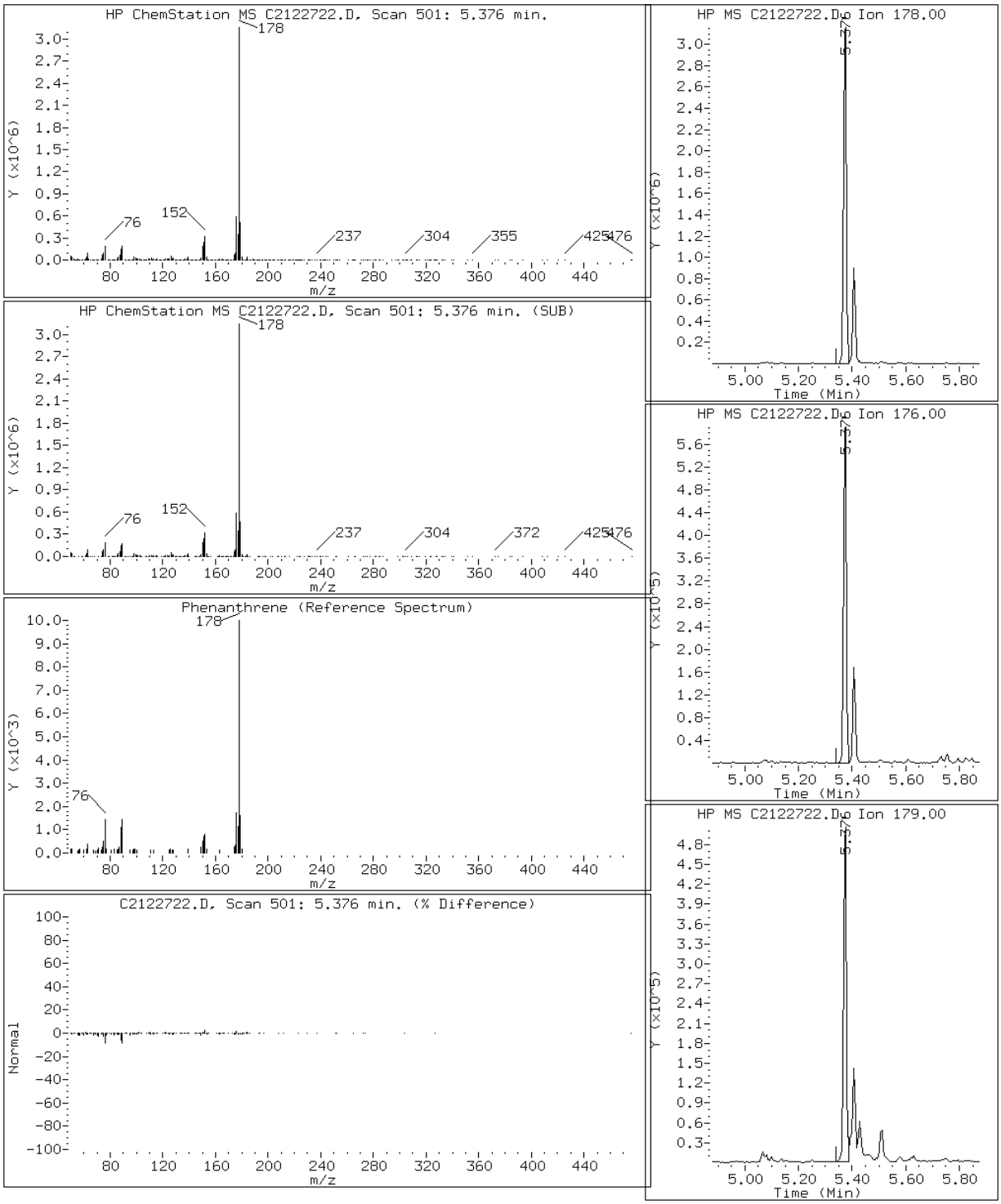
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

10 Phenanthrene



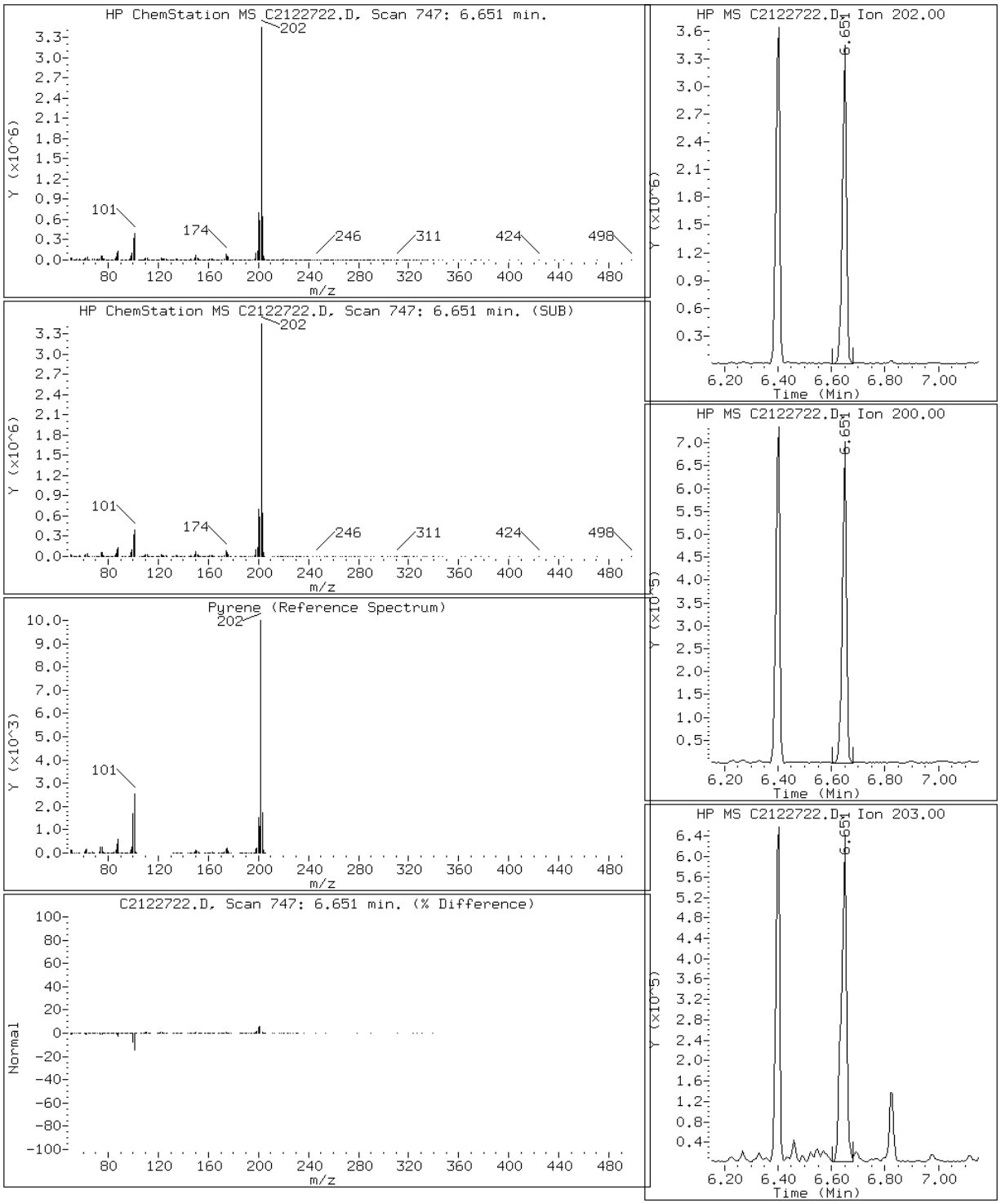
Data File: C2122722.D

Date: 27-DEC-2012 13:48

Client ID: CV0511G-CS Instrument: TSMC5973.i

Sample Info: 680-85785-A-40-A~98122~4~8270DLL Operator: VW

15 Pyrene



Manual Integration Report

Data File: C2122722.D
Inj. Date and Time: 27-DEC-2012 13:48
Instrument ID: TSMC5973.i
Client ID: CV0511G-CS
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/27/2012

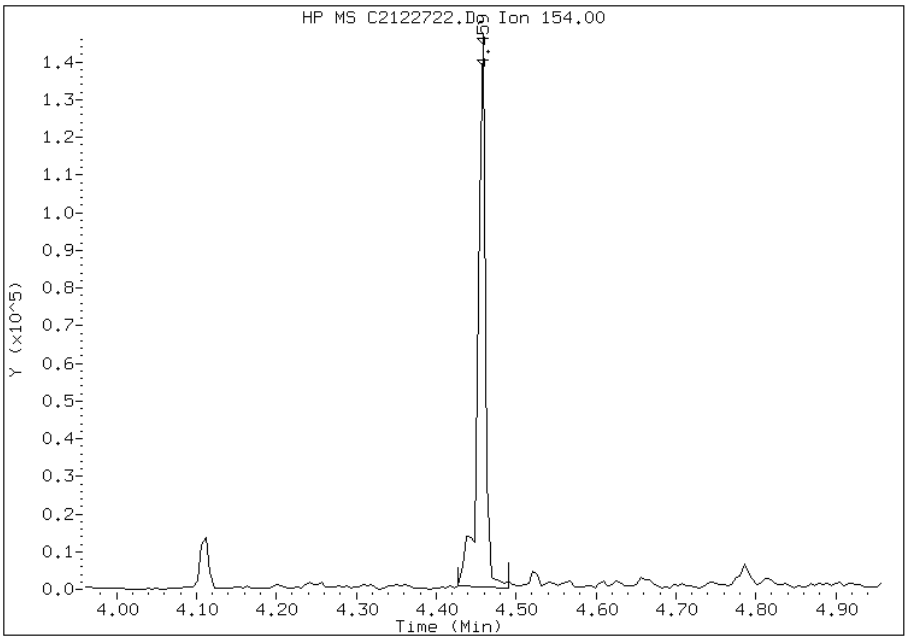
Processing Integration Results

RT: 4.46

Response: 101862

Amount: 1

Conc: 151



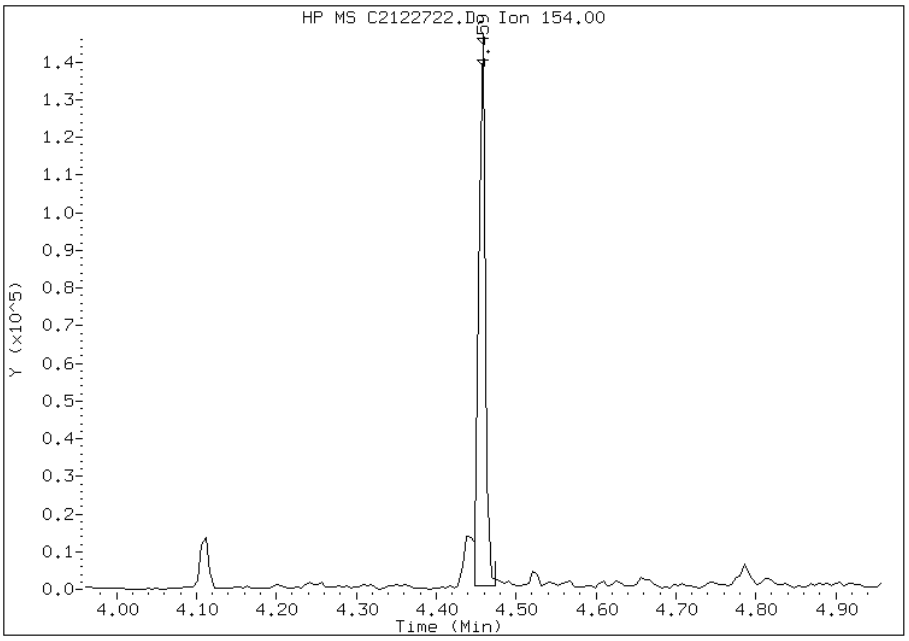
Manual Integration Results

RT: 4.46

Response: 90049

Amount: 1

Conc: 133



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 15:11
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511H-CS | Lab Sample ID: 680-85785-41

Matrix: Solid | Lab File ID: A2122723.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 10:45

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.09(g) | Date Analyzed: 12/27/2012 17:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 20

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

% Moisture: 24.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	680		180	15
208-96-8	Acenaphthylene	62	J	180	14
120-12-7	Anthracene	1300		180	17
56-55-3	Benzo[a]anthracene	6600	B	180	16
50-32-8	Benzo[a]pyrene	6700	B	180	18
205-99-2	Benzo[b]fluoranthene	11000	B	180	25
191-24-2	Benzo[g,h,i]perylene	1600	B	180	29
207-08-9	Benzo[k]fluoranthene	4200	B	180	17
218-01-9	Chrysene	6700	B	180	20
53-70-3	Dibenz(a,h)anthracene	590	B	180	17
206-44-0	Fluoranthene	13000	B	180	16
86-73-7	Fluorene	400		180	14
193-39-5	Indeno[1,2,3-cd]pyrene	2300	B	180	29
90-12-0	1-Methylnaphthalene	17	J	180	14
91-57-6	2-Methylnaphthalene	20	J	180	14
91-20-3	Naphthalene	180	U	180	14
85-01-8	Phenanthrene	6000		180	12
129-00-0	Pyrene	11000	B	180	14

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122723.D
Lab Smp Id: 680-85785-A-41-A Client Smp ID: CV0511H-CS
Inj Date : 27-DEC-2012 17:28
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-41-A~98123~20~8270D/625
Misc Info : 1A121227;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:51 vwelch Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 18
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

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

Name	Value	Description
DF	20.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.090	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)	REVIEW CODE
* 1 Naphthalene-d8	136	3.710	3.705	(1.000)	1382092	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	550	0.02236	15(a)	
4 1-Methylnaphthalene	142	4.136	4.135	(1.115)	494	0.01940	13(a)	
* 5 Acenaphthene-d10	164	4.668	4.663	(1.000)	696257	40.0000		
6 Acenaphthylene	152	4.586	4.581	(0.982)	2606	0.06984	46(a)	
7 Acenaphthene	153	4.684	4.678	(1.003)	17745	0.77568	520	
8 Fluorene	166	4.991	4.980	(1.069)	11970	0.45688	300	
* 9 Phenanthrene-d10	188	5.642	5.631	(1.000)	1101839	40.0000		
10 Phenanthrene	176	5.657	5.646	(1.003)	48017	6.76122	4500	
11 Anthracene	178	5.693	5.687	(1.009)	56023	1.48805	990	
$ 12 o-Terphenyl	230	Compound Not Detected.						BDL
13 Fluoranthene	202	6.759	6.743	(1.198)	651306	14.8896	9900	
* 14 Chrysene-d12	240	8.752	8.736	(1.000)	1337566	40.0000		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.020	7.004	(0.802)	553324	12.1377	8100	
16 Benzo(a)anthracene	226	8.721	8.700	(0.996)	91057	7.52277	5000	
17 Chrysene	228	8.788	8.772	(1.004)	313423	7.56062	5000	
* 18 Perylene-d12	264	11.247	11.241	(1.000)	1017032	40.0000		
19 Benzo(b)fluoranthene	252	10.560	10.544	(0.939)	374635	11.9448	7900	
20 Benzo(k)fluoranthene	252	10.606	10.596	(0.943)	151446	4.72790	3100	
21 Benzo(a)pyrene	252	11.124	11.113	(0.989)	215095	7.59010	5000	
22 Indeno(1,2,3-cd)pyrene	276	12.994	12.993	(1.155)	73612	2.57747	1700	
23 Dibenzo(a,h)anthracene	278	13.035	13.039	(1.159)	19320	0.66772	440	
24 Benzo(g,h,i)perylene	276	13.440	13.444	(1.195)	50687	1.79145	1200	

QC Flag Legend

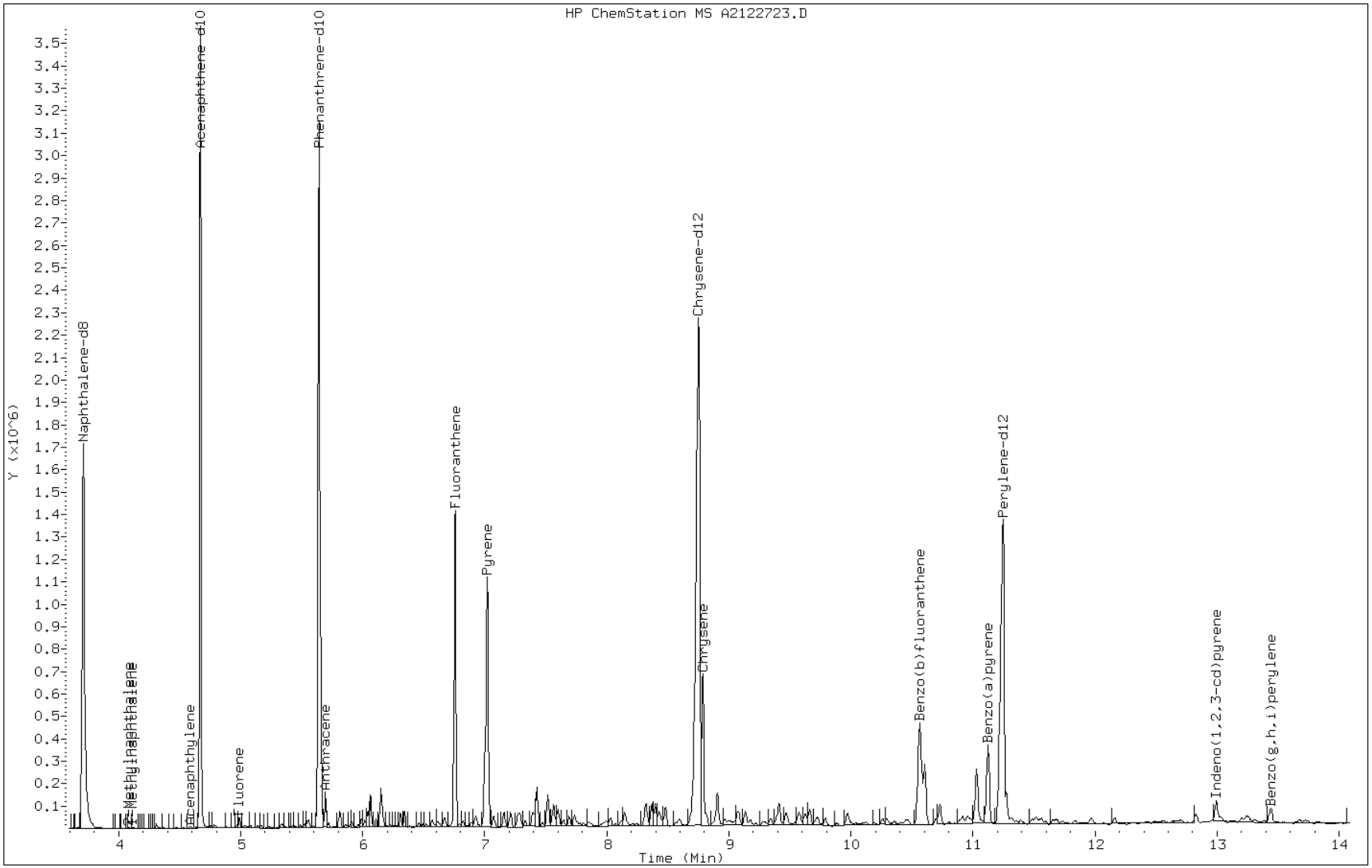
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW



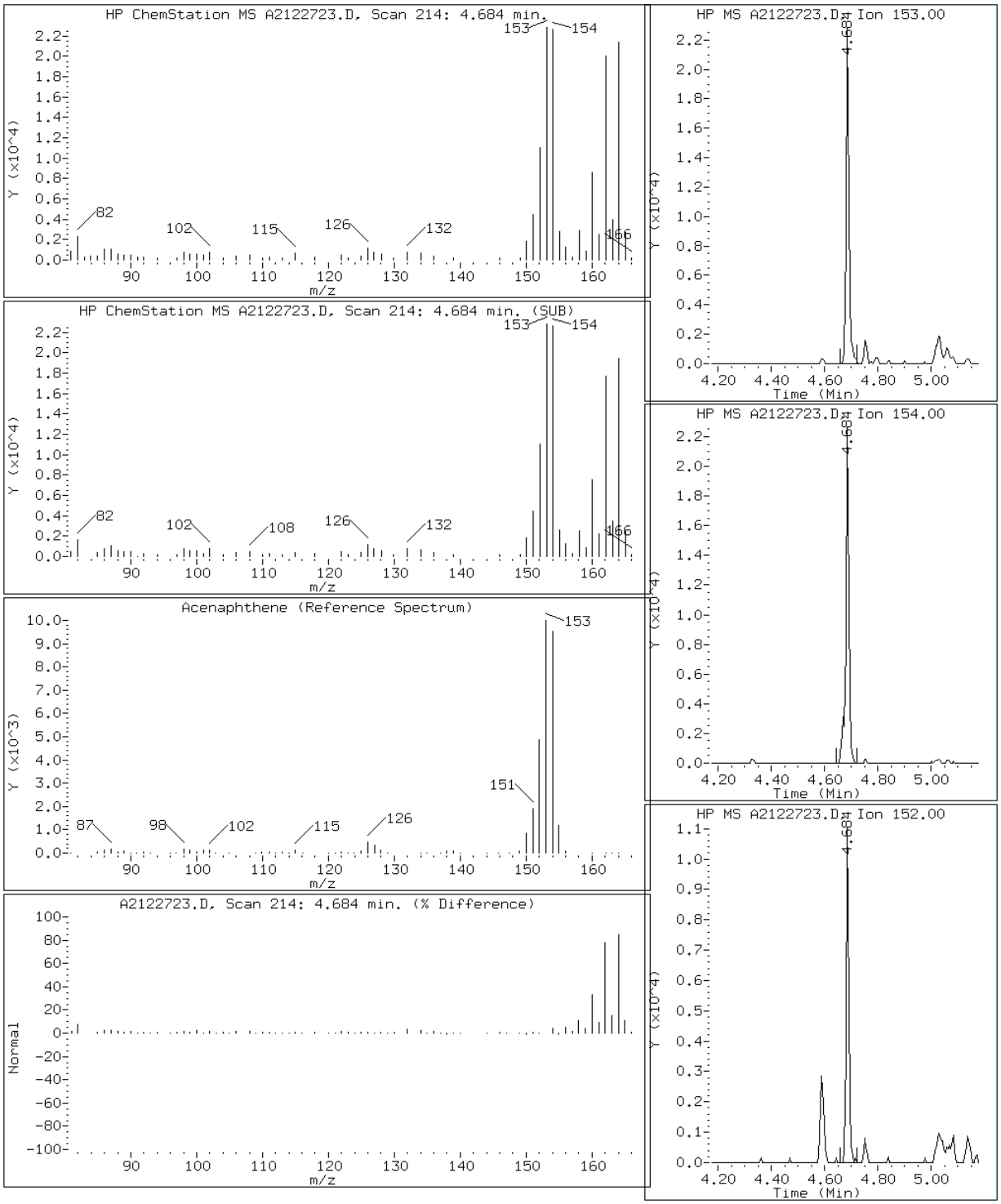
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

7 Acenaphthene



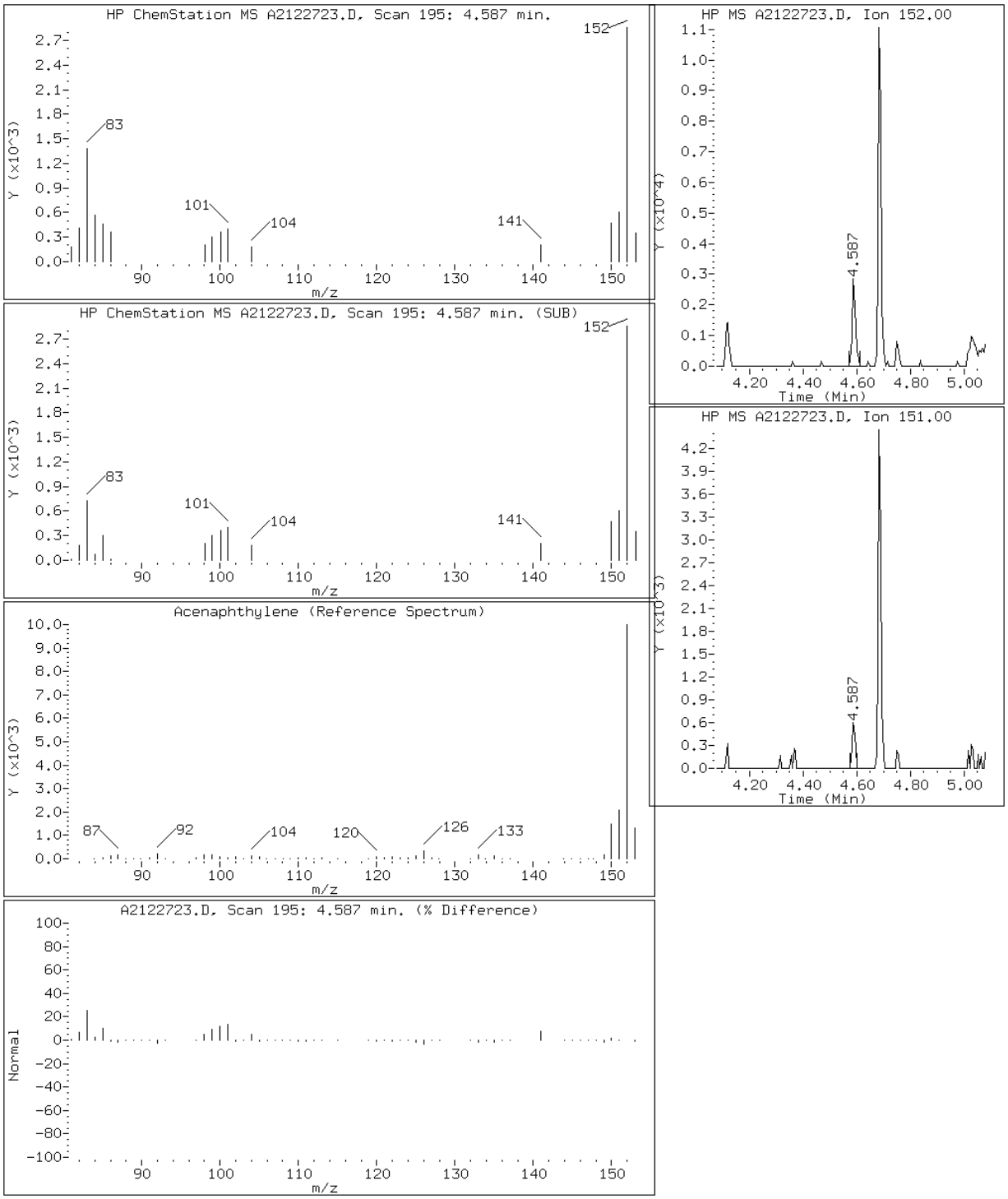
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

6 Acenaphthylene



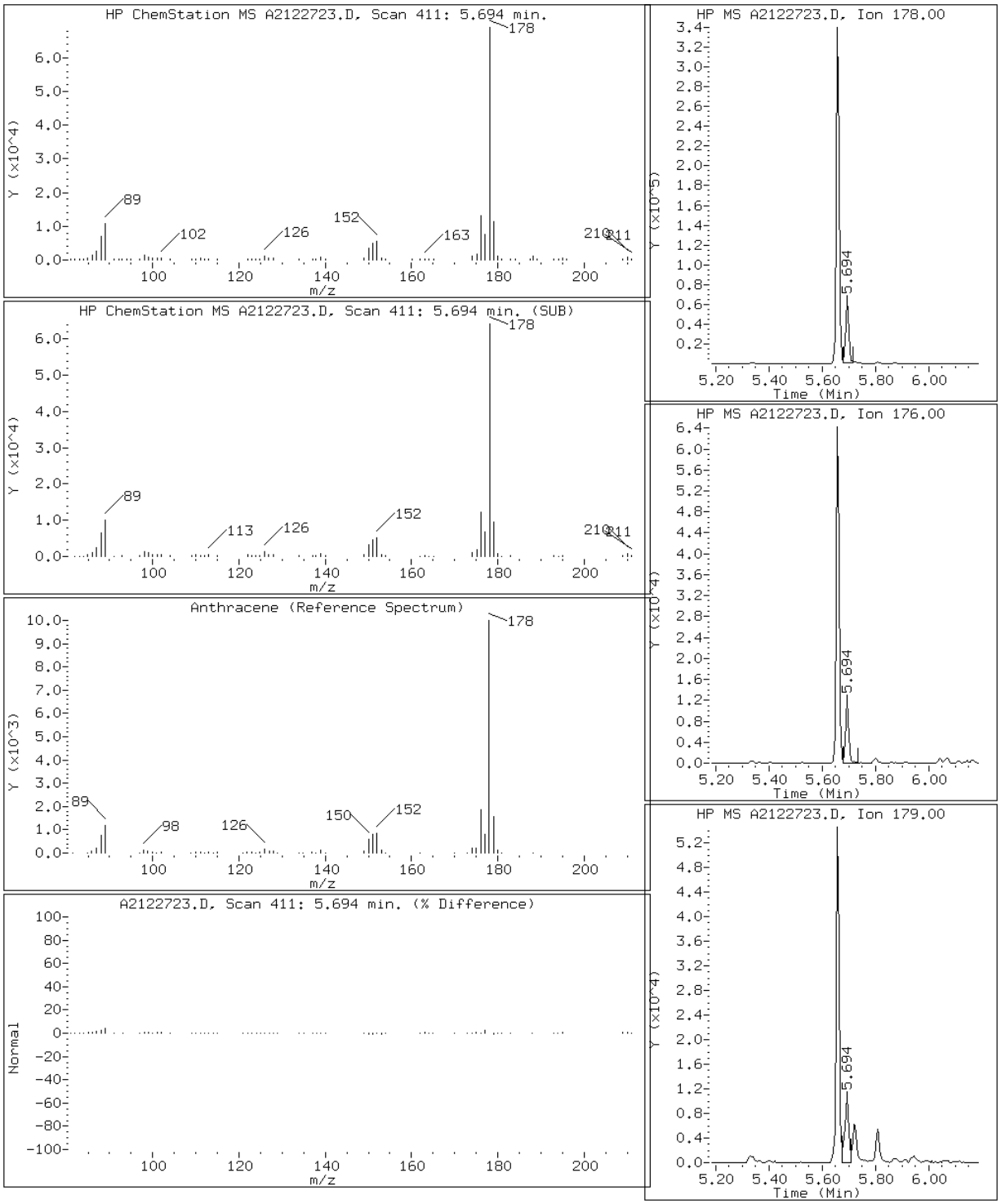
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

11 Anthracene



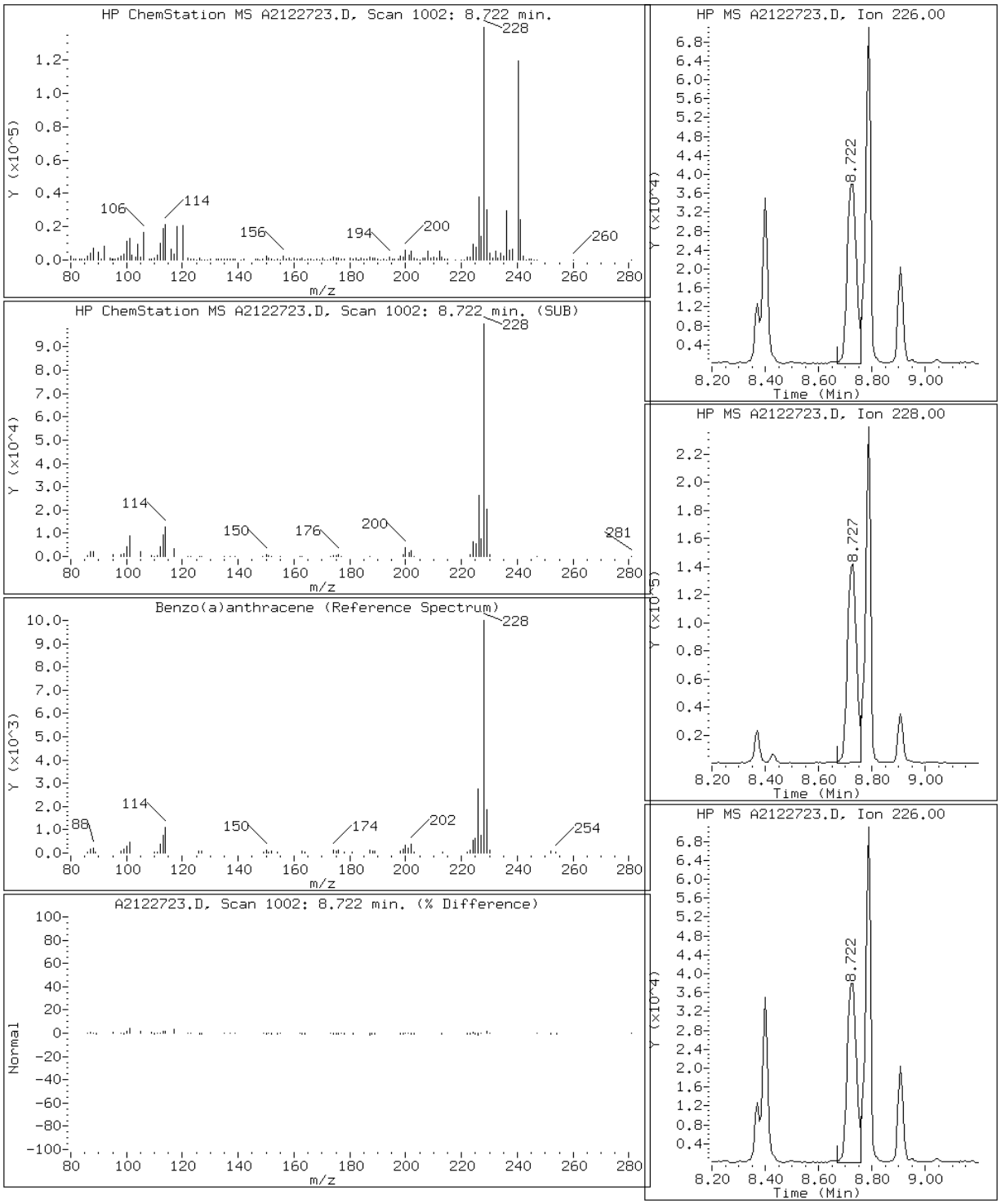
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

16 Benzo(a)anthracene



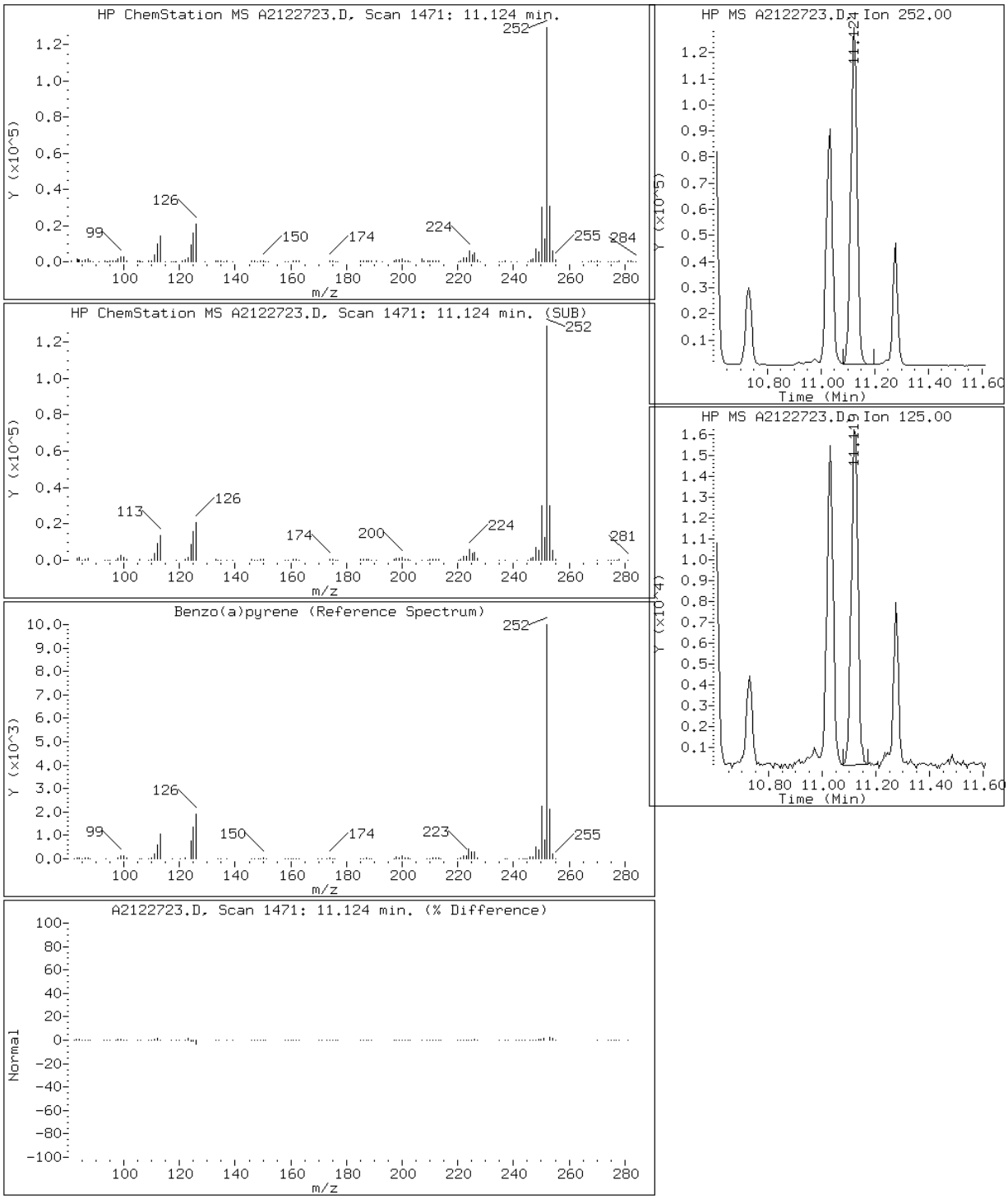
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

21 Benzo(a)pyrene



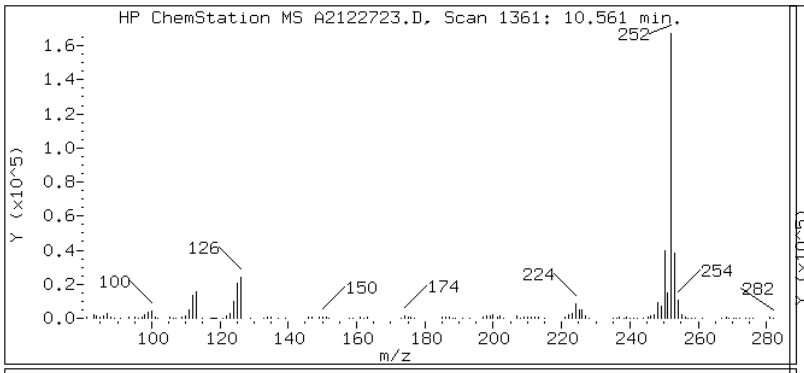
Data File: A2122723.D

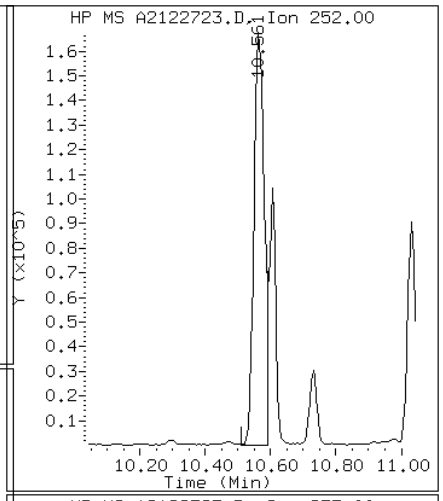
Date: 27-DEC-2012 17:28

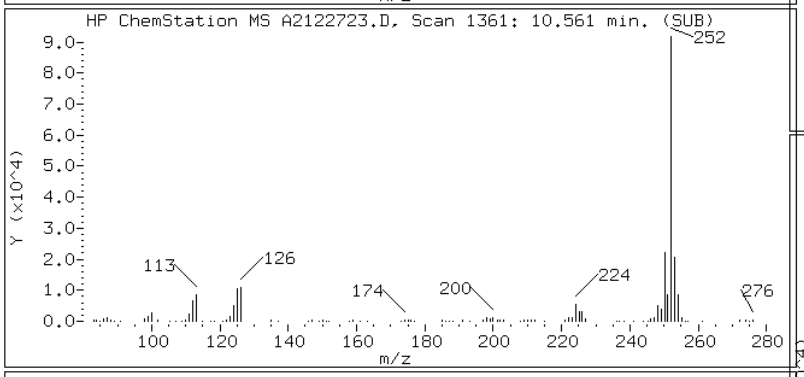
Client ID: CV0511H-CS Instrument: TSMA5973.i

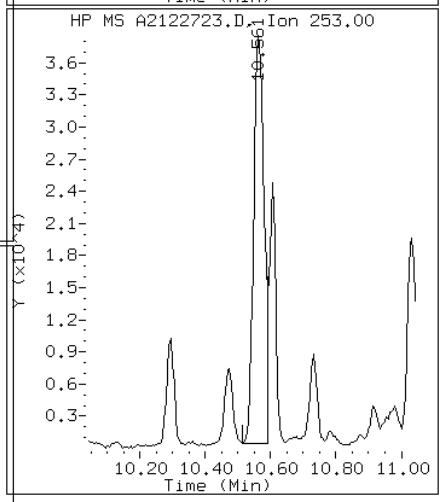
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

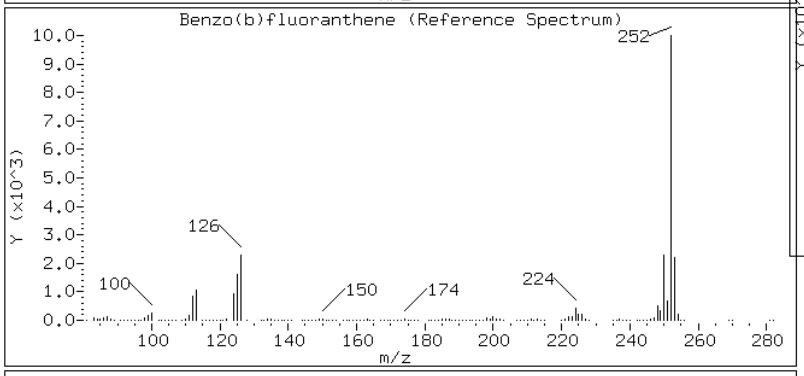
19 Benzo(b)fluoranthene

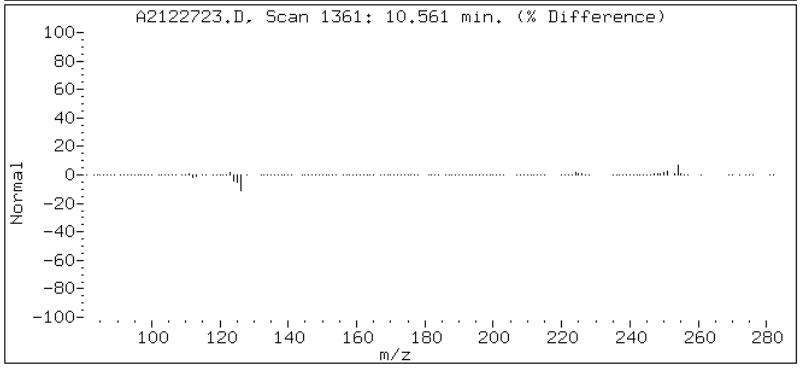












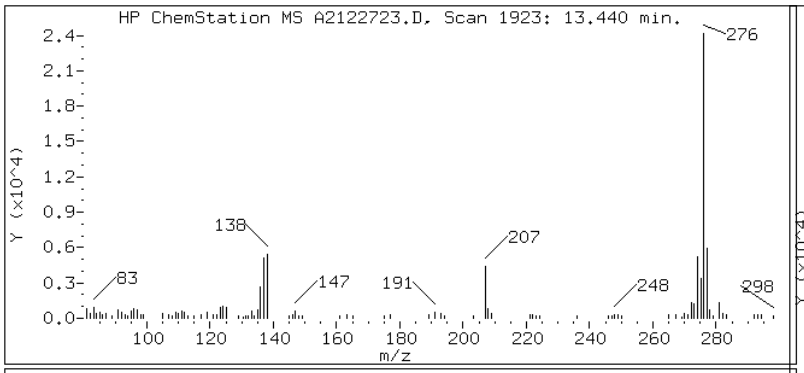
Data File: A2122723.D

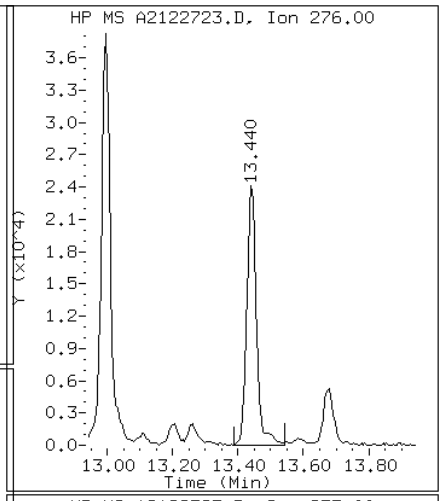
Date: 27-DEC-2012 17:28

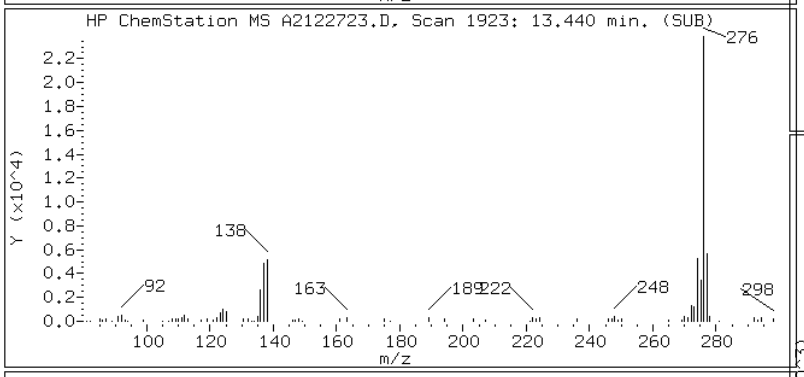
Client ID: CV0511H-CS Instrument: TSMA5973.i

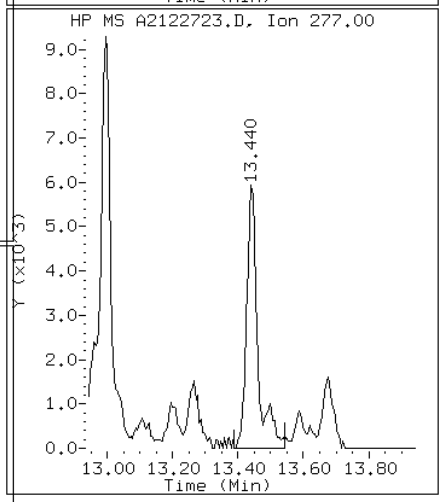
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

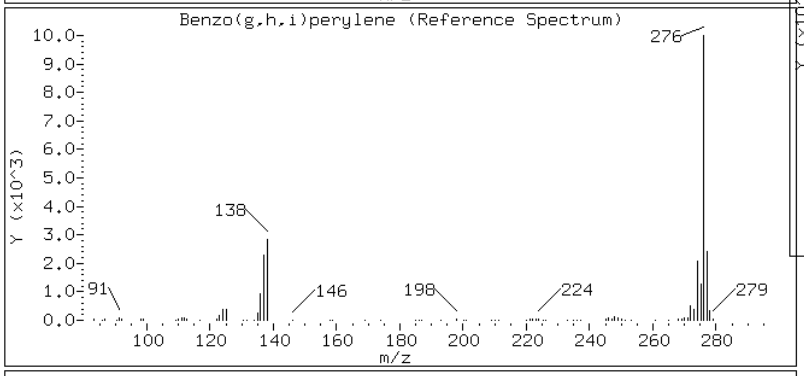
24 Benzo(g,h,i)perylene

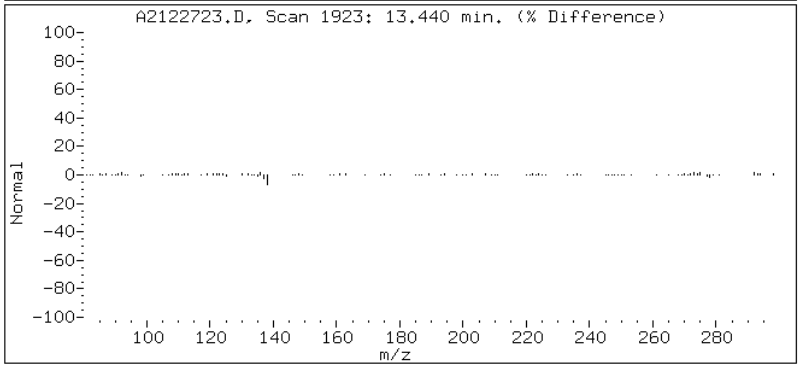












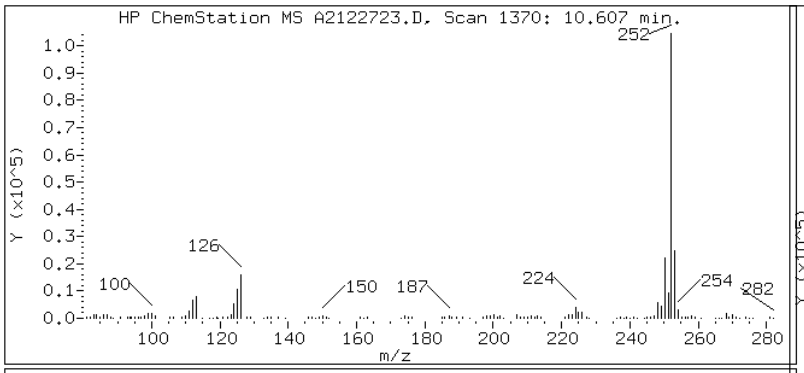
Data File: A2122723.D

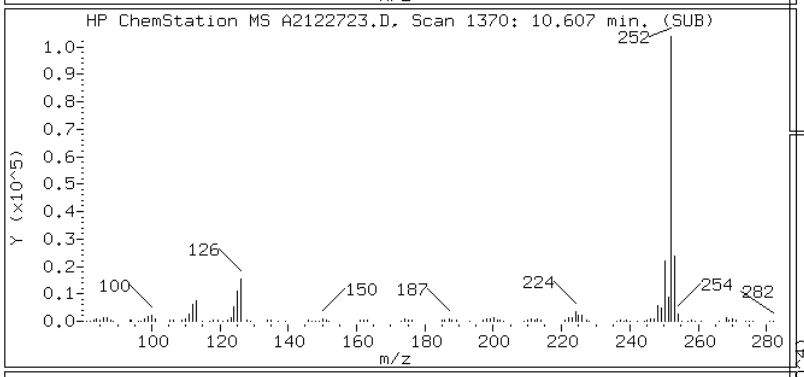
Date: 27-DEC-2012 17:28

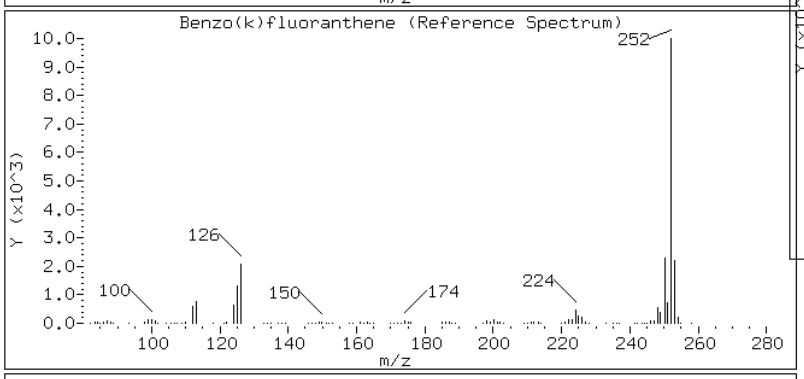
Client ID: CV0511H-CS Instrument: TSMA5973.i

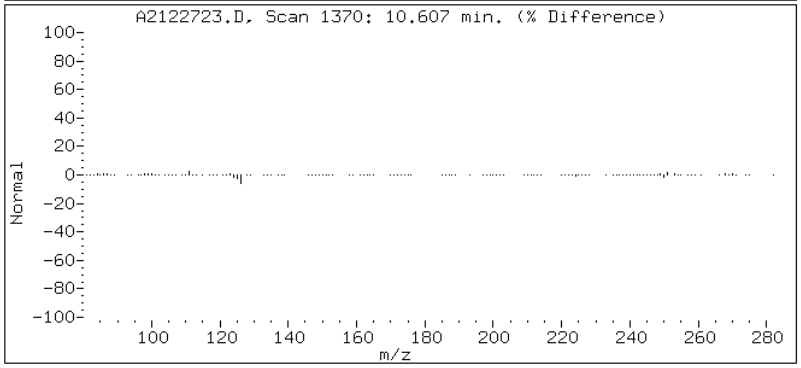
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

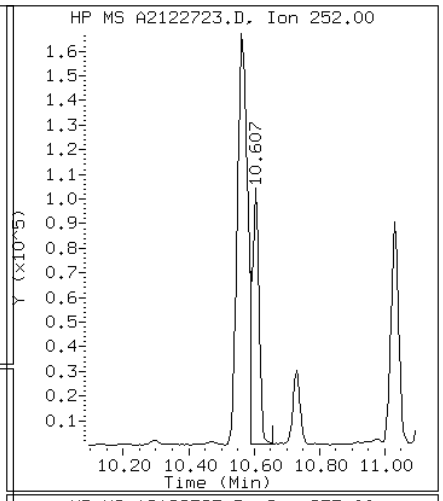
20 Benzo(k)fluoranthene

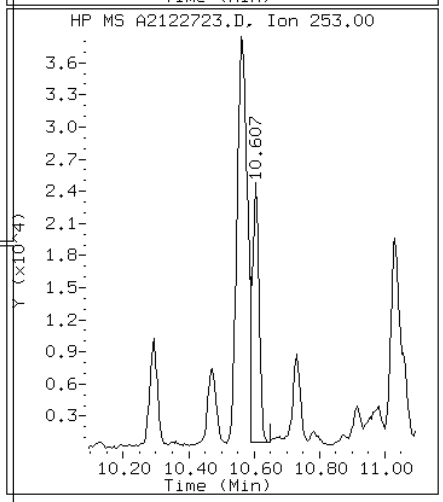












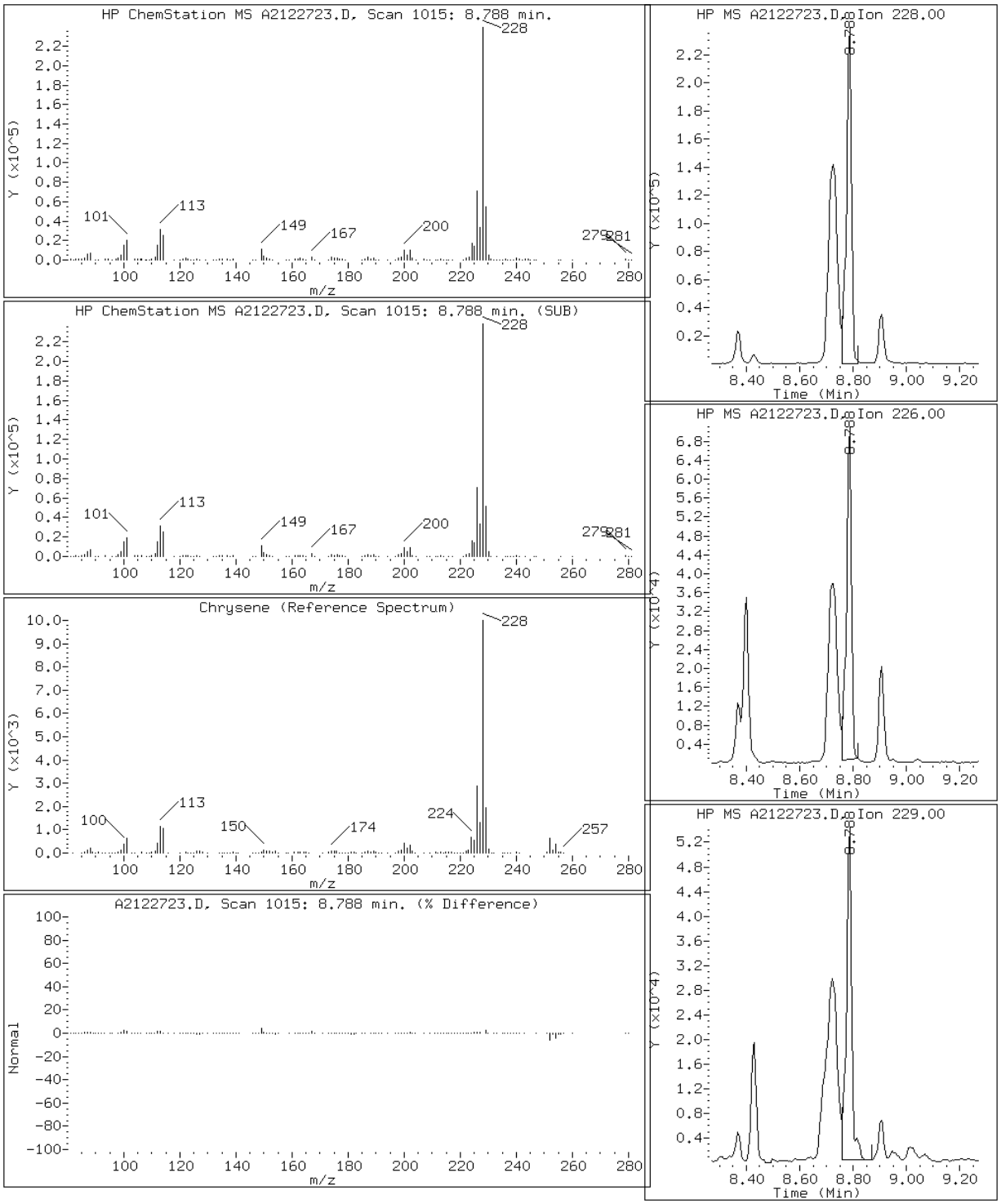
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

17 Chrysene



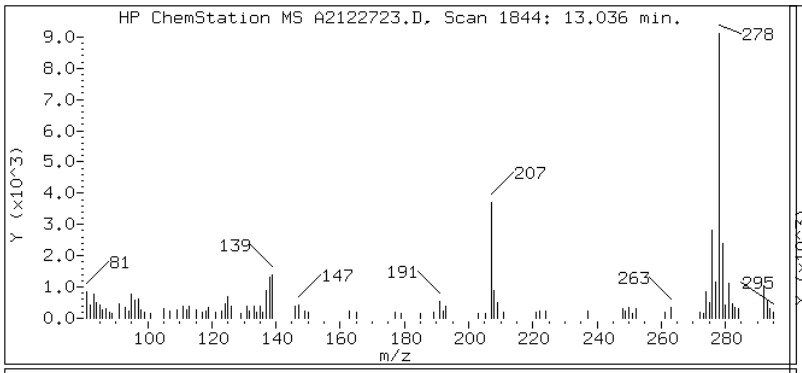
Data File: A2122723.D

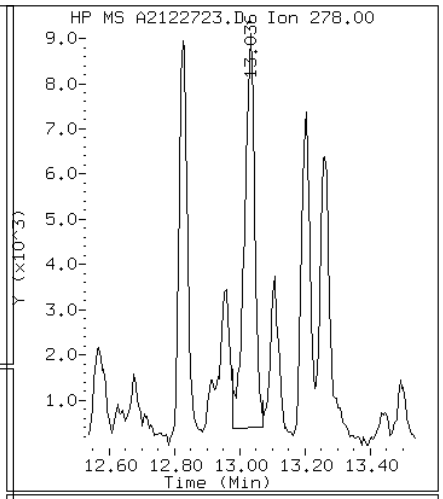
Date: 27-DEC-2012 17:28

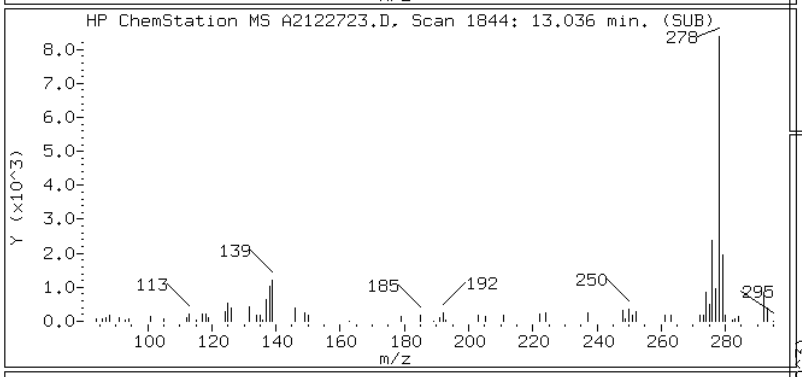
Client ID: CV0511H-CS Instrument: TSMA5973.i

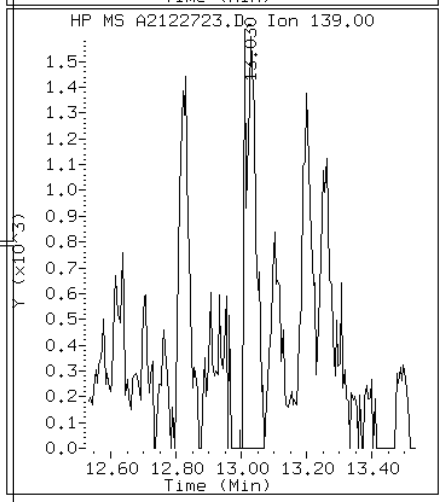
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

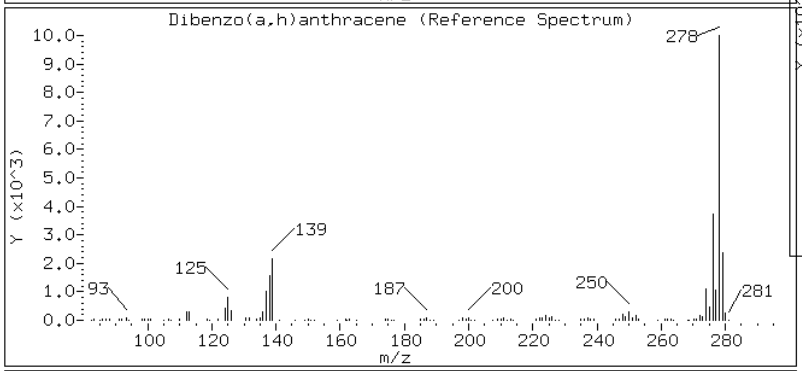
23 Dibenzo(a,h)anthracene

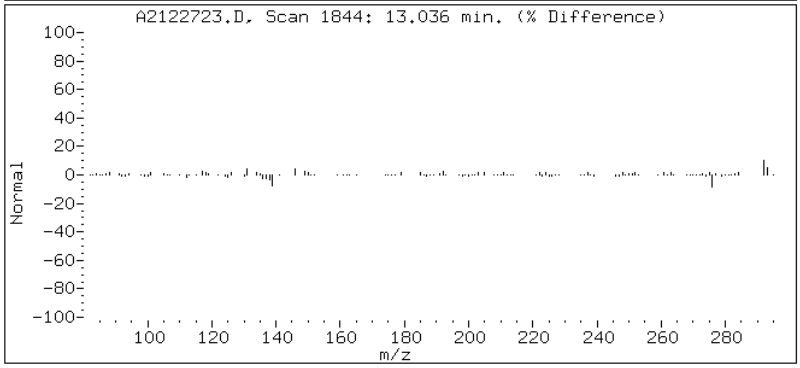












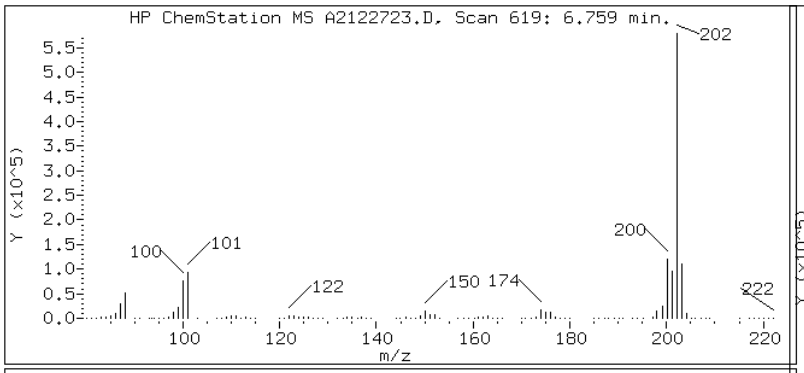
Data File: A2122723.D

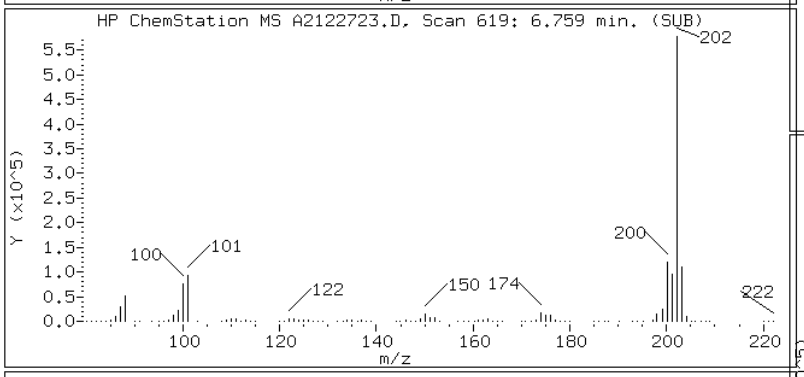
Date: 27-DEC-2012 17:28

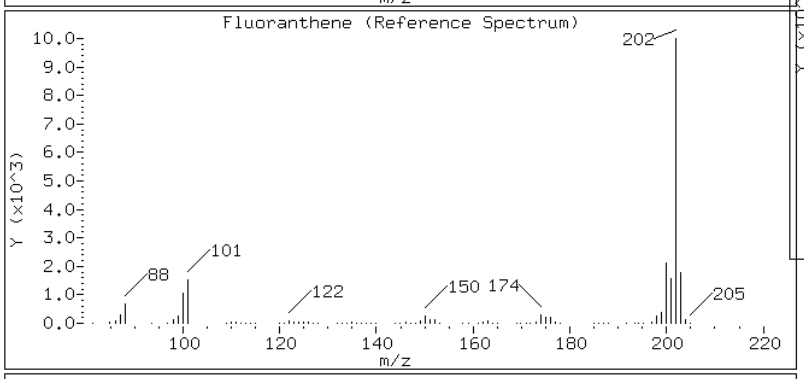
Client ID: CV0511H-CS Instrument: TSMA5973.i

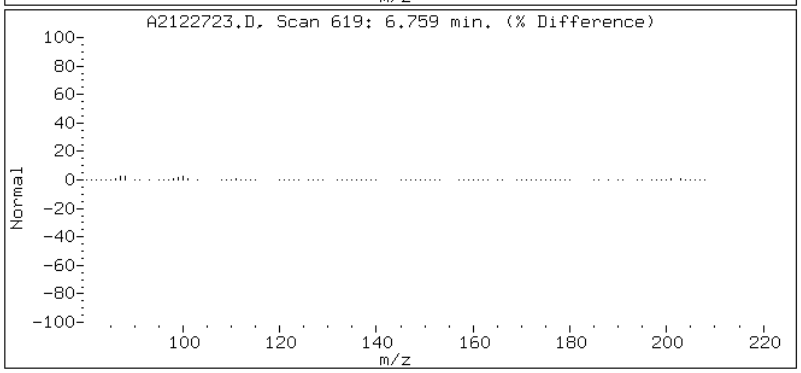
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

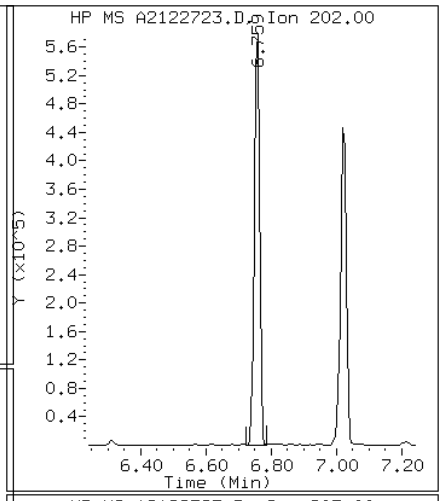
13 Fluoranthene

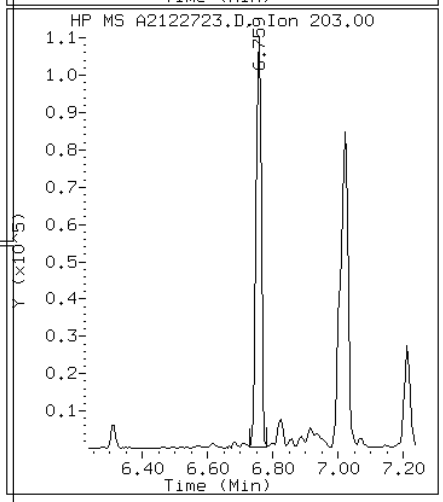












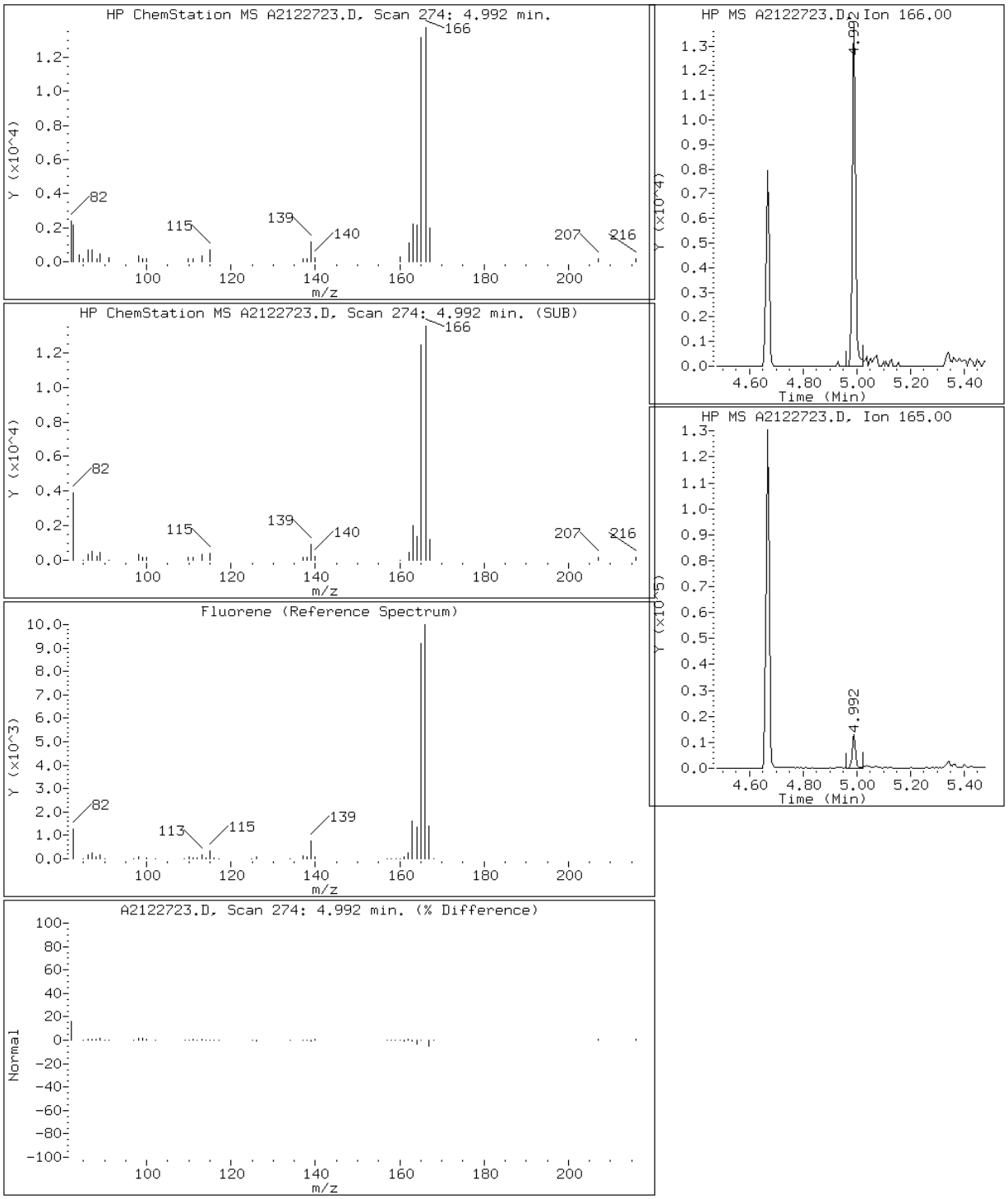
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

8 Fluorene



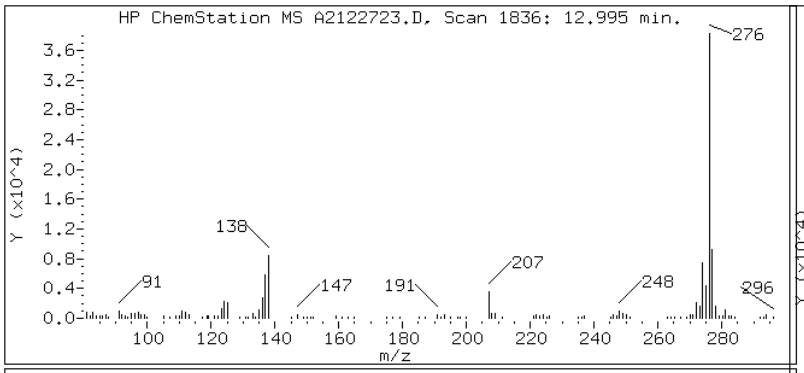
Data File: A2122723.D

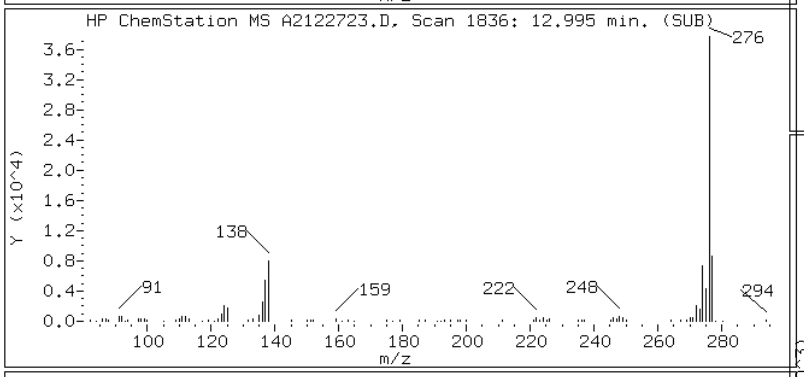
Date: 27-DEC-2012 17:28

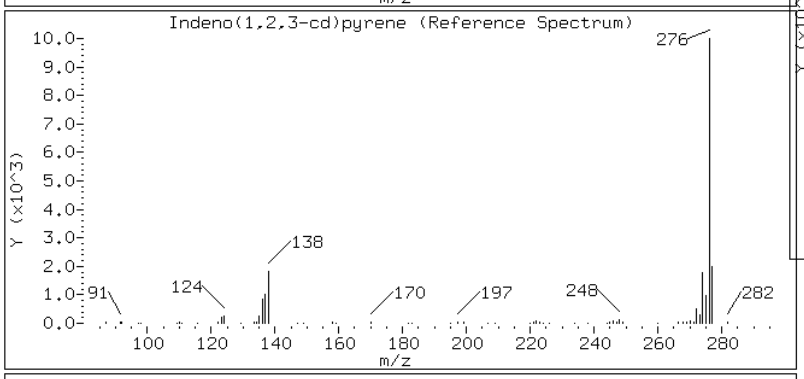
Client ID: CV0511H-CS Instrument: TSMA5973.i

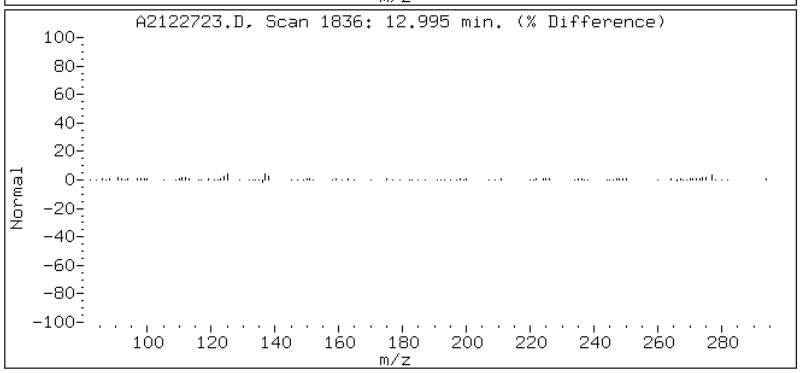
Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

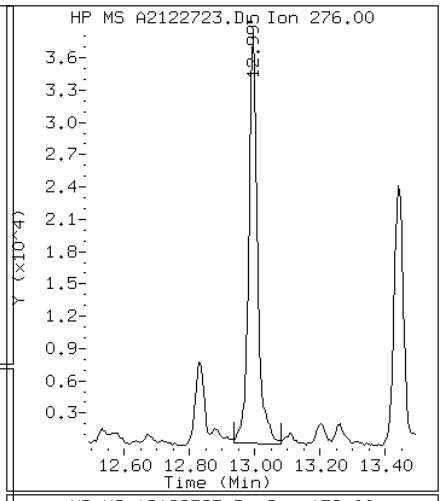
22 Indeno(1,2,3-cd)pyrene

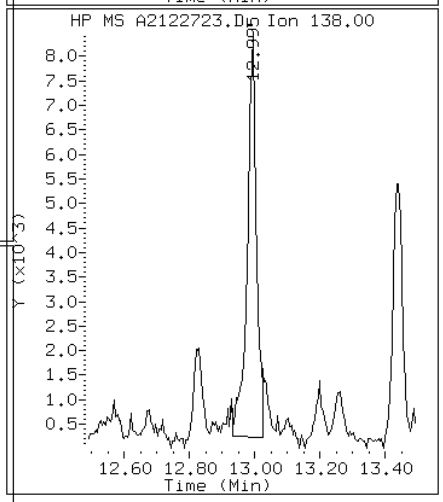












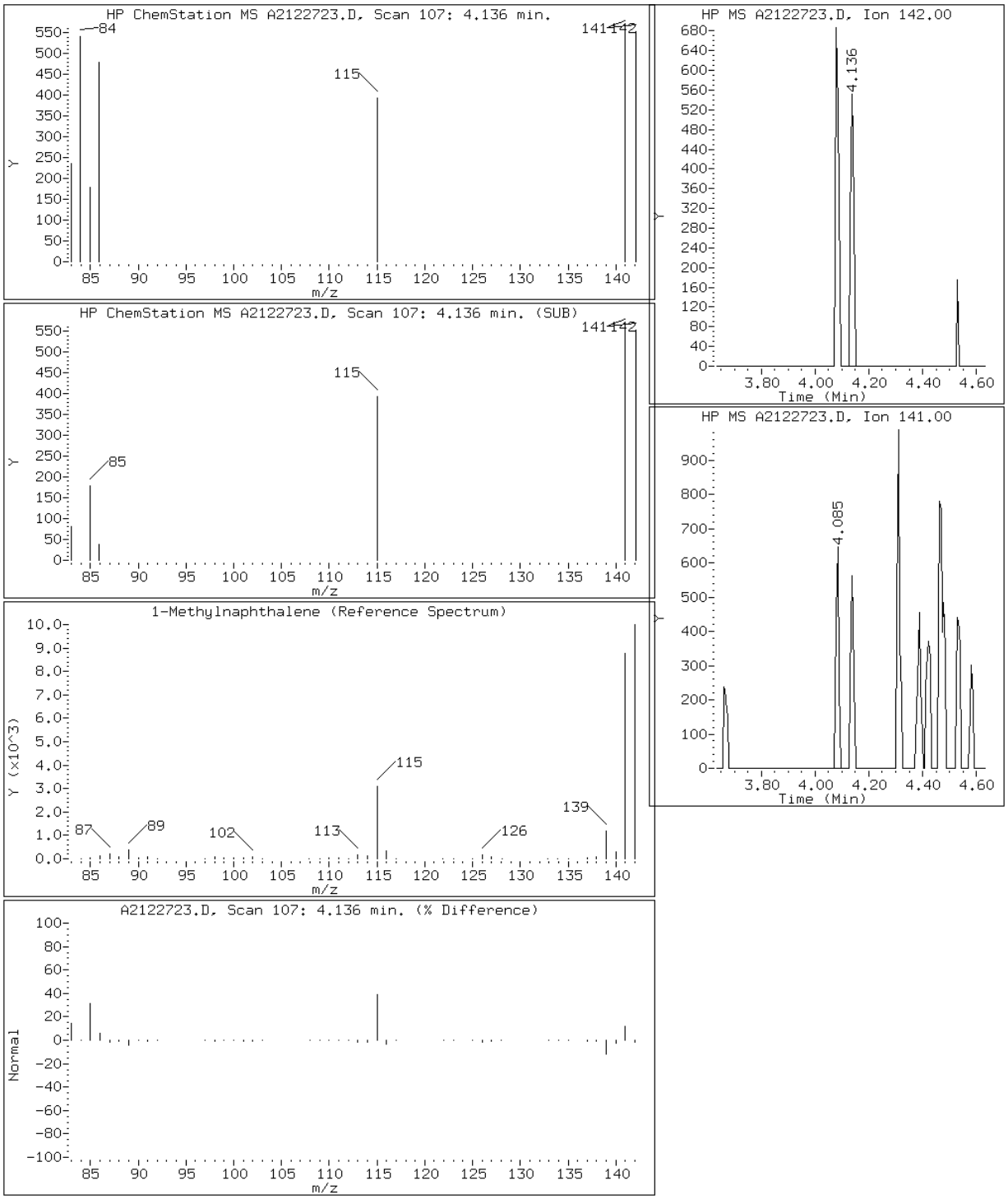
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

4 1-Methylnaphthalene



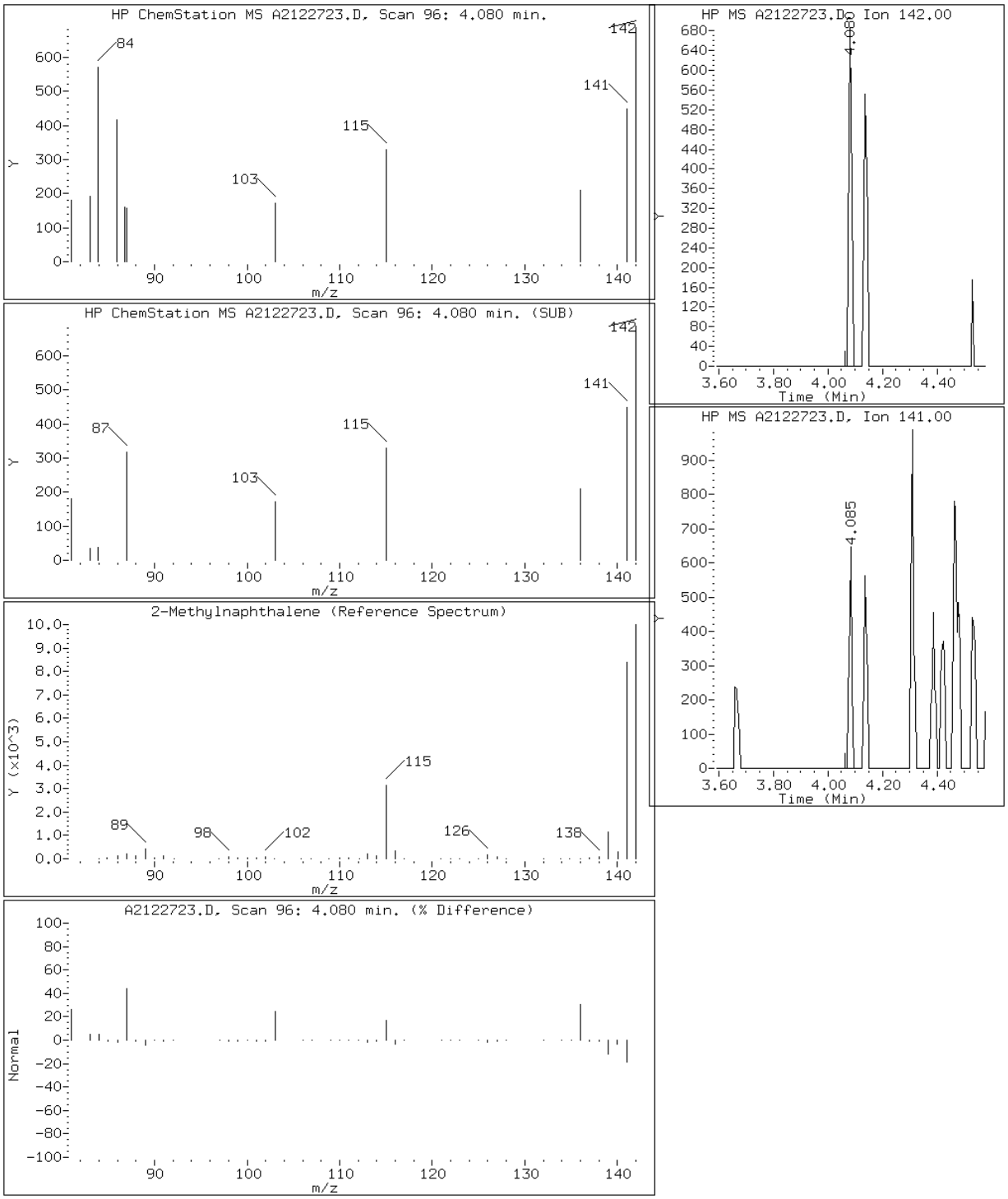
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

3 2-Methylnaphthalene



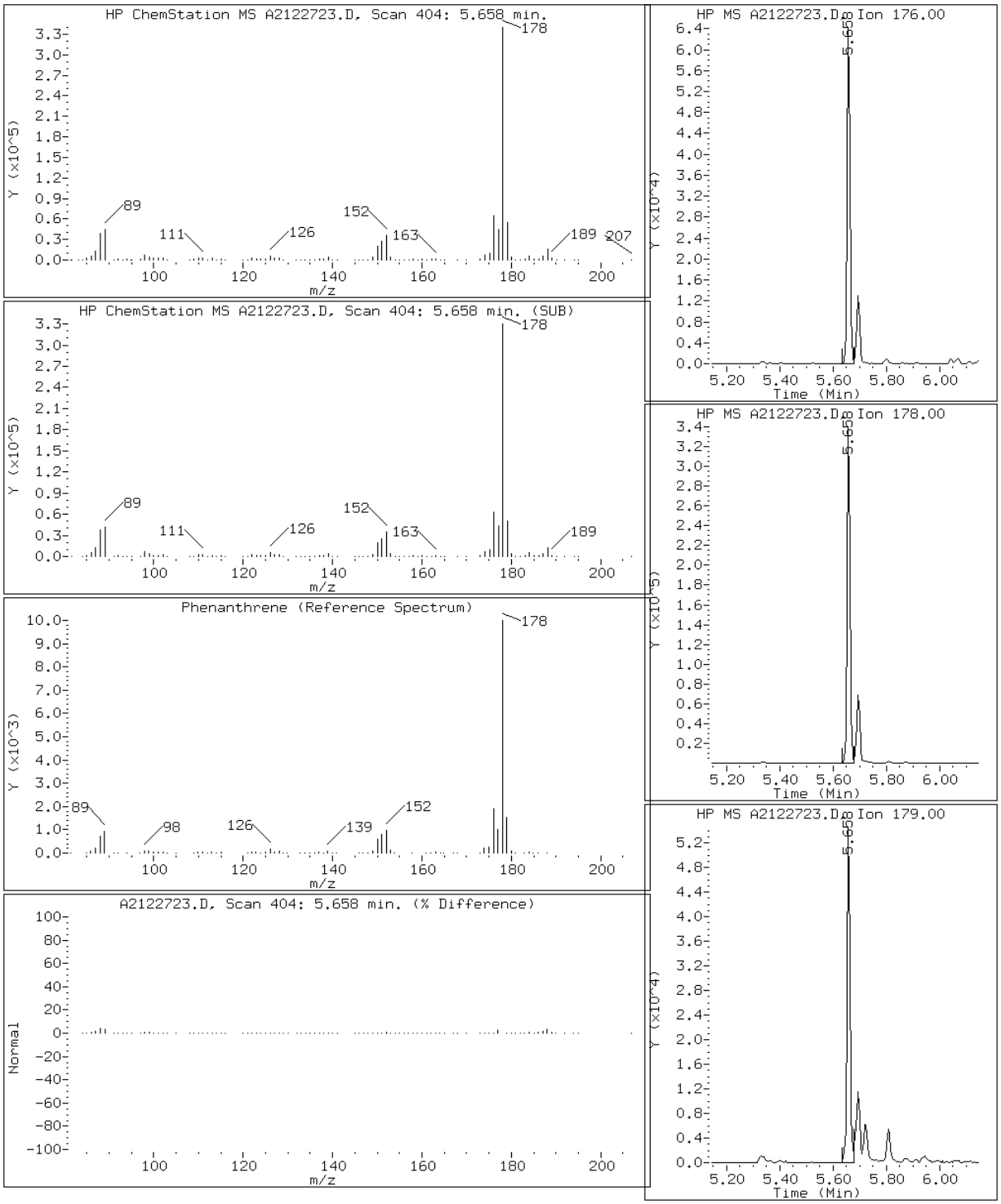
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

10 Phenanthrene



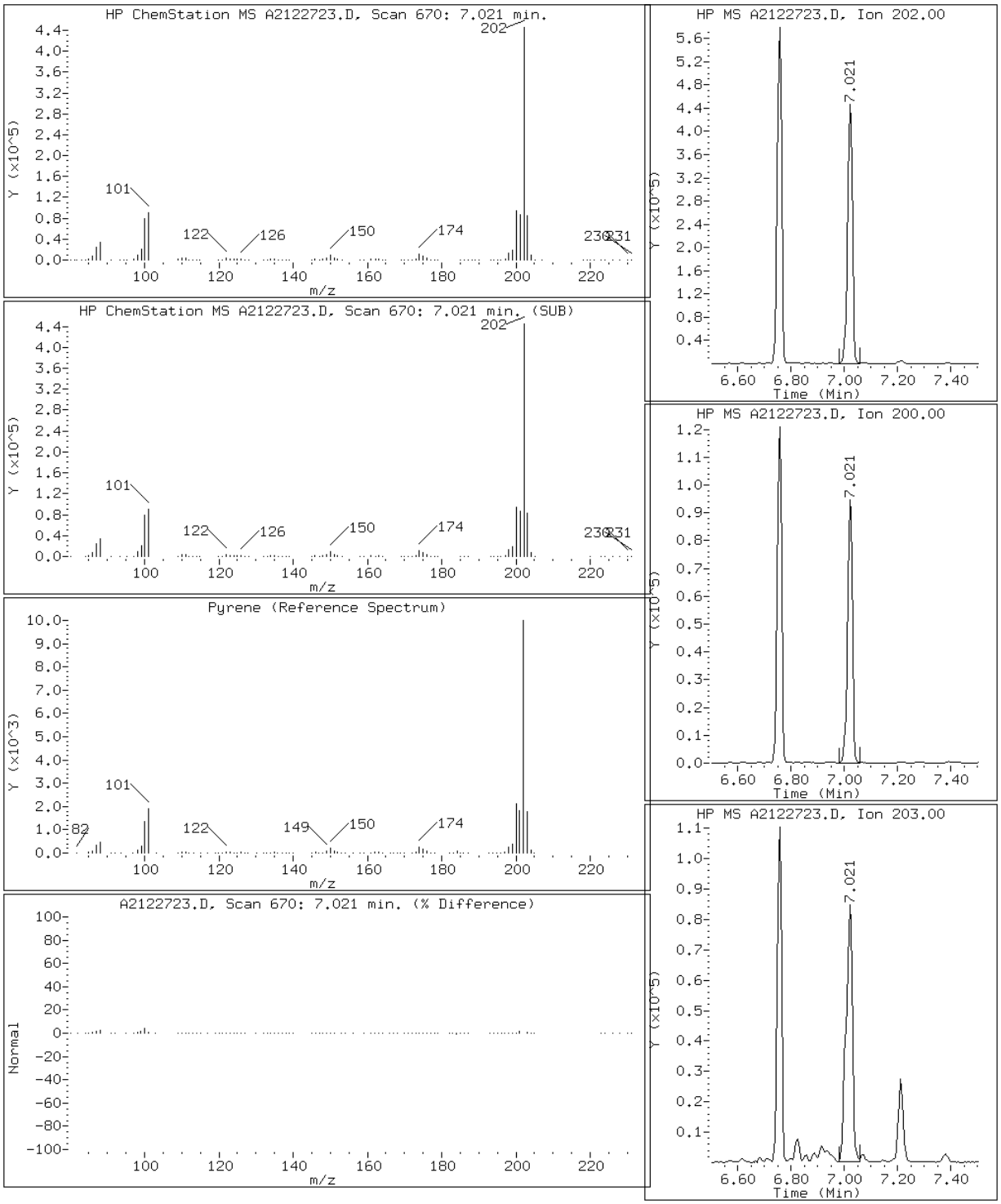
Data File: A2122723.D

Date: 27-DEC-2012 17:28

Client ID: CV0511H-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-41-A~98123~20~8270D/625 Operator: VW

15 Pyrene



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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98324

SDG No.: 68085785-2

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 14:08 Calibration End Date: 12/26/2012 16:42 Calibration ID: 1882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 640-98324/2	A2122607.D
Level 2	IC 640-98324/3	A2122608.D
Level 3	IC 640-98324/4	A2122609.D
Level 4	IC 640-98324/5	A2122610.D
Level 5	IC 640-98324/7	A2122612.D
Level 6	ICIS 640-98324/6	A2122611.D
Level 7	IC 640-98324/8	A2122613.D
Level 8	IC 640-98324/9	A2122614.D
Level 9	IC 640-98324/10	A2122615.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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Naphthalene	1.1900 1.1187	1.1206 1.1175	1.1360 1.1039	1.1450 1.0779	1.1302	Ave		1.1266			0.7000	2.7		20.0			
2-Methylnaphthalene	0.7466 0.7054	0.7181 0.6966	0.7246 0.7130	0.7245 0.6721	0.7072	Ave		0.7120			0.4000	2.9		20.0			
1-Methylnaphthalene	0.7786 0.7289	0.7371 0.7265	0.7639 0.7262	0.7460 0.6842	0.7400	Ave		0.7368			0.0010	3.6		20.0			
Acenaphthylene	2.3001 2.0892	2.1695 2.0626	2.2291 2.0265	2.1655 +++++	2.1072	Ave		2.1437			0.9000	4.2		20.0			
Acenaphthene	1.3253 1.1821	1.2523 1.1885	1.2698 1.1694	1.2410 1.1342	1.2271	QuaF		0.7555	0.2104	*	0.9000				0.9997		0.9900
Fluorene	1.5641 1.4768	1.5600 1.4614	1.5802 1.4412	1.5395 1.4006	1.5226	Ave		1.5052			0.9000	4.2		20.0			
Phenanthrene	0.2546 0.2539	0.2563 0.2501	0.2601 0.2541	0.2602 0.2476	0.2537	QuaF		3.8052	1.6871		0.7000				0.9997		0.9900
Anthracene	1.5432 1.3272	1.3936 1.3105	1.4343 1.2824	1.4060 1.2299	1.3737	Ave		1.3668			0.7000	6.8		20.0			
Fluoranthene	1.7301 1.5285	1.7057 1.5023	1.7280 1.4723	1.6416 1.4292	1.5541	Ave		1.5880			0.6000	7.3		20.0			
Pyrene	1.4916 1.3039	1.4514 1.3064	1.4435 1.3051	1.3790 1.2662	1.3226	Ave		1.3633			0.6000	5.9		20.0			
Benzo[a]anthracene	0.3087 0.3561	0.3506 0.3603	0.3645 0.3604	0.3617 0.3522	0.3601	QuaF		2.7297	0.4835		0.8000				0.9997		0.9900
Chrysene	1.2869 1.2271	1.2481 1.2262	1.2701 1.2124	1.2558 1.1917	1.2391	Ave		1.2397			0.7000	2.4		20.0			
Benzo[b]fluoranthene	1.2697 1.2532	1.1744 1.2193	1.2609 1.2171	1.2600 1.2003	1.2471	Ave		1.2335			0.7000	2.6		20.0			

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 Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98324

SDG No.: 68085785-2

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 14:08 Calibration End Date: 12/26/2012 16:42 Calibration ID: 1882

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3441 1.2394	1.2778 1.2175	1.3019 1.2140	1.2899 1.1743	1.2797	Ave		1.2598			0.7000	4.2		20.0			
Benzo[a]pyrene	1.1393 1.1156	1.0968 1.0956	1.1273 1.1083	1.1306 1.0864	1.1312	Ave		1.1146			0.7000	1.7		20.0			
Indeno[1,2,3-cd]pyrene	1.1031 1.1483	1.0407 1.1397	1.1028 1.1553	1.1622 1.1362	1.1212	Ave		1.1233			0.5000	3.3		20.0			
Dibenz(a,h)anthracene	1.1739 1.1474	1.1055 1.1272	1.1725 1.1411	1.1838 1.0454	1.1451	Ave		1.1380			0.4000	3.7		20.0			
Benzo[g,h,i]perylene	1.1716 1.1215	1.1041 1.0931	1.1218 1.0864	1.1408 1.0605	1.1154	Ave		1.1128			0.5000	2.9		20.0			
o-Terphenyl (Surr)	0.8983 0.8292	0.8899 0.8129	0.8881 0.7970	0.8812 0.7712	0.8402	Ave		0.8453			0.0010	5.5		20.0			

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 Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98324

SDG No.: 68085785-2

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 14:08 Calibration End Date: 12/26/2012 16:42 Calibration ID: 1882

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 640-98324/2	A2122607.D
Level 2	IC 640-98324/3	A2122608.D
Level 3	IC 640-98324/4	A2122609.D
Level 4	IC 640-98324/5	A2122610.D
Level 5	IC 640-98324/7	A2122612.D
Level 6	ICIS 640-98324/6	A2122611.D
Level 7	IC 640-98324/8	A2122613.D
Level 8	IC 640-98324/9	A2122614.D
Level 9	IC 640-98324/10	A2122615.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene	NPT	Ave	4359 523642	101132 631115	210289 710607	315807 804090	424763	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
2-Methylnaphthalene	NPT	Ave	2735 330213	64811 393403	134127 458960	199823 501359	265766	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
1-Methylnaphthalene	NPT	Ave	2852 341209	66527 410307	141415 467452	205761 510414	278100	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Acenaphthylene	ANT	Ave	4238 510046	100653 604708	212082 689171	310209 +++++	406768	0.100 12.5	2.50 15.0	5.00 17.5	7.50 +++++	10.0
Acenaphthene	ANT	QuaF	2442 288586	58100 348456	120807 397693	177778 436573	236889	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Fluorene	ANT	Ave	2882 360542	72372 428464	150344 490134	220531 539132	293927	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Phenanthrene	PHN	QuaF	726 95939	18660 115496	38412 137018	57684 152018	77654	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Anthracene	PHN	Ave	4401 501492	101454 605145	211858 691544	311723 755209	420525	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Fluoranthene	PHN	Ave	4934 577542	124176 693725	255229 793911	363970 877574	475768	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Pyrene	CRY	Ave	5035 577847	125766 702462	252757 807122	362503 884178	474293	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[a]anthracene	CRY	QuaF	1042 157815	30381 193754	63834 222915	95089 245899	129149	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Chrysene	CRY	Ave	4344 543806	108148 659306	222403 749804	330137 832097	444360	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[b]fluoranthene	PRY	Ave	4984 634541	116003 758587	251894 872294	378449 970208	510947	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[k]fluoranthene	PRY	Ave	5276 627573	126225 757449	260094 870075	387429 949139	524291	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98324

SDG No.: 68085785-2

Instrument ID: SMA GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 14:08 Calibration End Date: 12/26/2012 16:42 Calibration ID: 1882

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[a]pyrene	PRY	Ave	4472 564898	108340 681625	225217 794324	339603 878077	463473	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	4330 581421	102796 709045	220313 828049	349069 918338	459352	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Dibenz(a,h)anthracene	PRY	Ave	4608 581000	109204 701247	234240 817841	355559 845010	469134	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[g,h,i]perylene	PRY	Ave	4599 567849	109066 680044	224112 778638	342650 857194	456995	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
o-Terphenyl (Surr)	PHN	Ave	2562 313311	64784 375386	131179 429797	195382 473530	257205	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122607.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 14:08
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^1_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 14:08 Cal File: A2122607.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 1 Naphthalene-d8	136	3.714	3.714	(1.000)	1465235	40.0000		
2 Naphthalene	128	3.725	3.725	(1.003)	4359	0.10000	0.10	
3 2-Methylnaphthalene	142	4.083	4.083	(1.099)	2735	0.10000	0.10	
4 1-Methylnaphthalene	142	4.134	4.134	(1.113)	2852	0.10000	0.10	
* 5 Acenaphthene-d10	164	4.667	4.667	(1.000)	737019	40.0000		
6 Acenaphthylene	152	4.585	4.585	(0.982)	4238	0.10000	0.11	
7 Acenaphthene	153	4.683	4.683	(1.003)	2442	0.10000	0.10	
8 Fluorene	166	4.990	4.990	(1.069)	2882	0.10000	0.10	
* 9 Phenanthrene-d10	188	5.641	5.641	(1.000)	1140759	40.0000		
10 Phenanthrene	176	5.656	5.656	(1.003)	726	0.10000	0.097	
11 Anthracene	178	5.692	5.692	(1.009)	4401	0.10000	0.11	
$ 12 o-Terphenyl	230	5.912	5.912	(1.048)	2562	0.10000	0.11	
13 Fluoranthene	202	6.753	6.753	(1.197)	4934	0.10000	0.11	
* 14 Chrysene-d12	240	8.751	8.751	(1.000)	1350257	40.0000		
15 Pyrene	202	7.014	7.014	(0.802)	5035	0.10000	0.11	
16 Benzo(a)anthracene	226	8.710	8.710	(0.995)	1042	0.10000	0.084(M)	SP
17 Chrysene	228	8.776	8.776	(1.003)	4344	0.10000	0.10	
* 18 Perylene-d12	264	11.256	11.256	(1.000)	1570123	40.0000		
19 Benzo(b)fluoranthene	252	10.544	10.544	(0.937)	4984	0.10000	0.10	
20 Benzo(k)fluoranthene	252	10.595	10.595	(0.941)	5276	0.10000	0.11	
21 Benzo(a)pyrene	252	11.108	11.108	(0.987)	4472	0.10000	0.10	
22 Indeno(1,2,3-cd)pyrene	276	12.993	12.993	(1.154)	4330	0.10000	0.098	
23 Dibenzo(a,h)anthracene	278	13.034	13.034	(1.158)	4608	0.10000	0.10	
24 Benzo(g,h,i)perylene	276	13.444	13.444	(1.194)	4599	0.10000	0.10	

QC Flag Legend

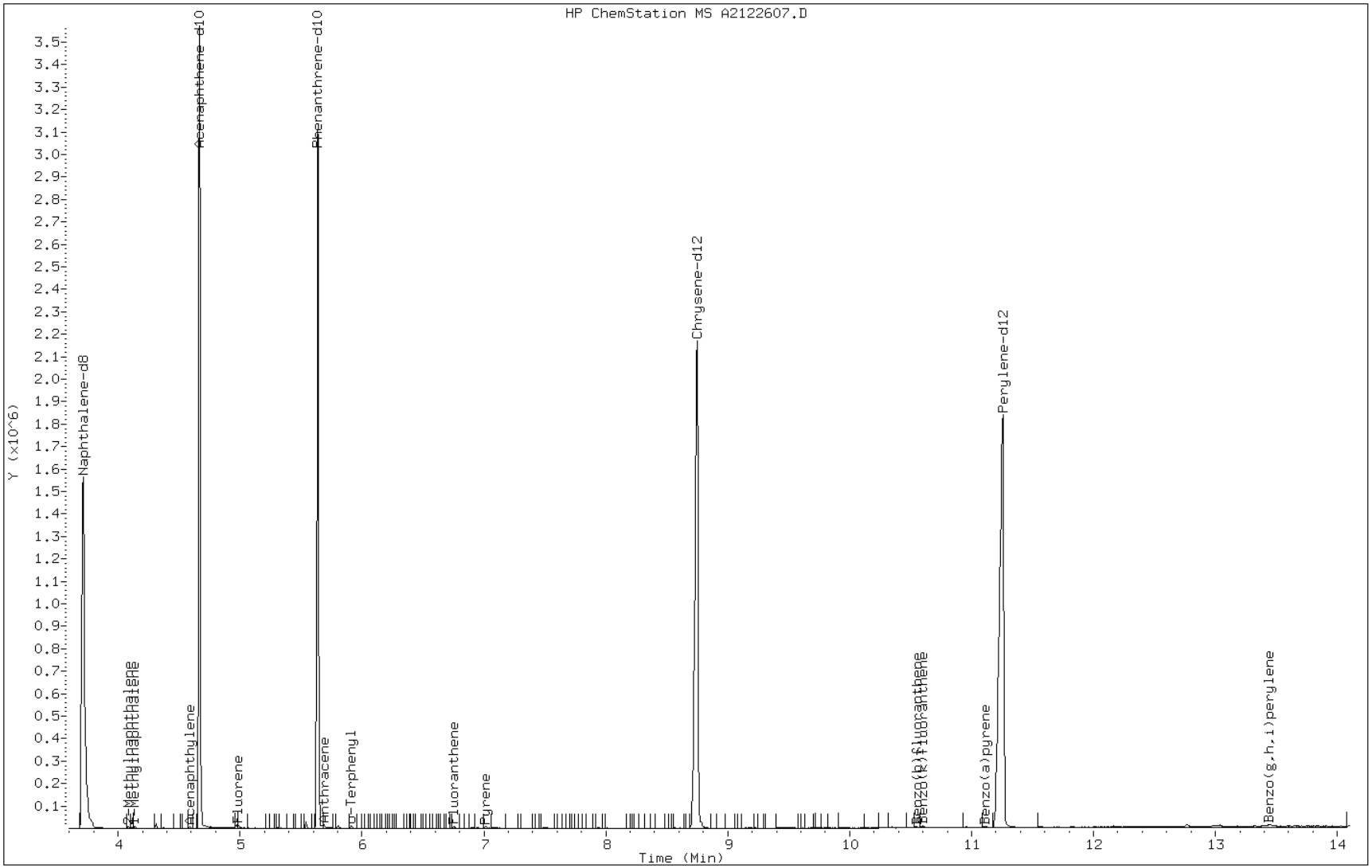
M - Compound response manually integrated.

Data File: A2122607.D

Date: 26-DEC-2012 14:08

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^1_00019~1~8270D/625 Operator: VW



Manual Integration Report

Data File: A2122607.D
Inj. Date and Time: 26-DEC-2012 14:08
Instrument ID: TSMA5973.i
Client ID:
Compound: 16 Benzo(a)anthracene
CAS #: 56-55-3
Report Date: 12/28/2012

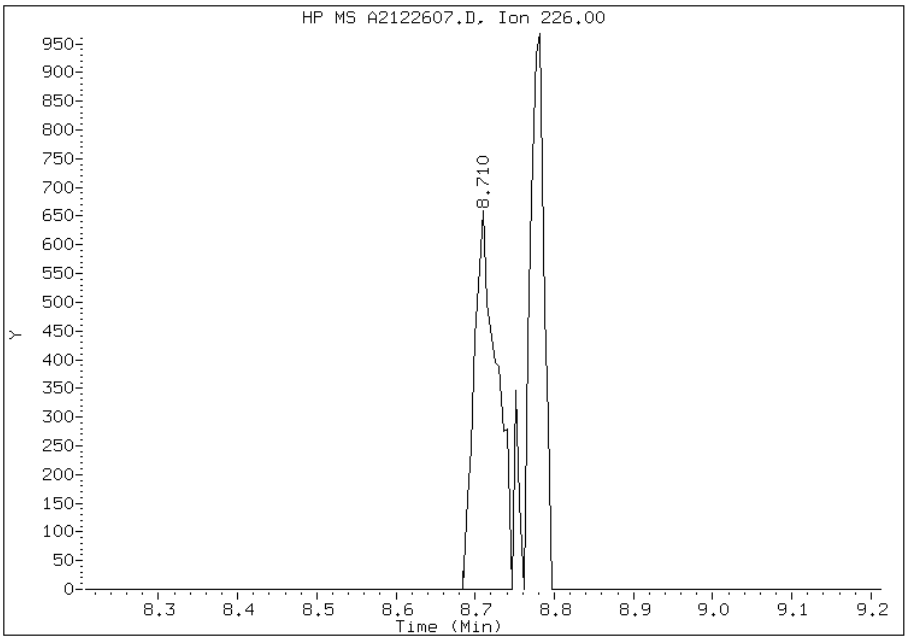
Processing Integration Results

RT: 8.71

Response: 1333

Amount: 0

Conc: 0



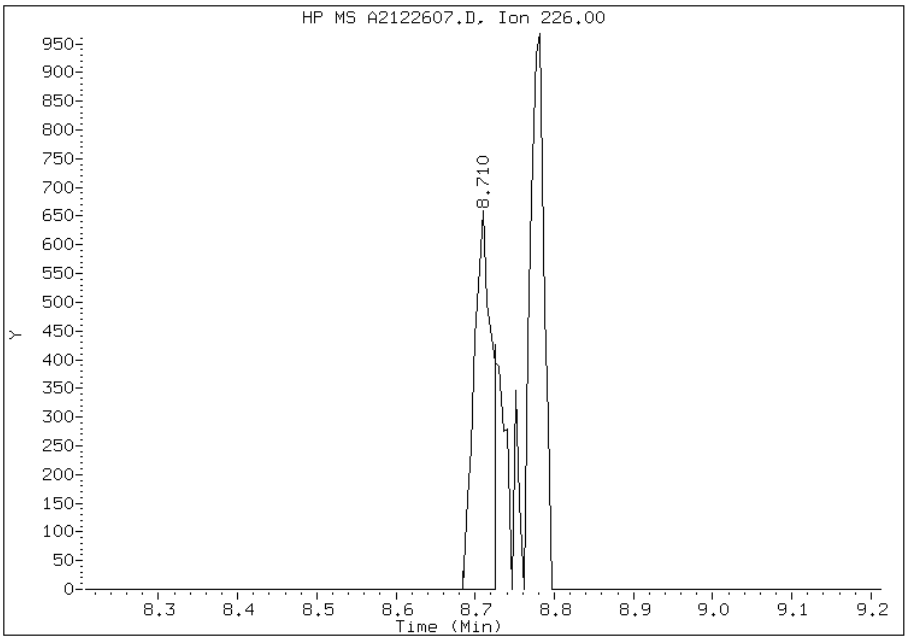
Manual Integration Results

RT: 8.71

Response: 1042

Amount: 0

Conc: 0



Manually Integrated By: vwelch
Modification Date: 26-Dec-2012 18:08
Manual Integration Reason: Split Peak

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122608.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 14:27
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 14:08 Cal File: A2122607.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 1 Naphthalene-d8	136	3.711	3.711	(1.000)	1443987	40.0000		
2 Naphthalene	128	3.721	3.721	(1.003)	101132	2.50000	2.5	
3 2-Methylnaphthalene	142	4.080	4.080	(1.099)	64811	2.50000	2.5	
4 1-Methylnaphthalene	142	4.136	4.136	(1.115)	66527	2.50000	2.5	
* 5 Acenaphthene-d10	164	4.664	4.664	(1.000)	742297	40.0000		
6 Acenaphthylene	152	4.582	4.582	(0.982)	100653	2.50000	2.5	
7 Acenaphthene	153	4.679	4.679	(1.003)	58100	2.50000	2.4(Q)	
8 Fluorene	166	4.982	4.982	(1.068)	72372	2.50000	2.6	
* 9 Phenanthrene-d10	188	5.632	5.632	(1.000)	1164807	40.0000		
10 Phenanthrene	176	5.648	5.648	(1.003)	18660	2.50000	2.4(Q)	
11 Anthracene	178	5.689	5.689	(1.010)	101454	2.50000	2.5	
$ 12 o-Terphenyl	230	5.904	5.904	(1.048)	64784	2.50000	2.6	
13 Fluoranthene	202	6.744	6.744	(1.197)	124176	2.50000	2.7	
* 14 Chrysene-d12	240	8.742	8.742	(1.000)	1386406	40.0000		
15 Pyrene	202	7.005	7.005	(0.801)	125766	2.50000	2.7	
16 Benzo(a)anthracene	226	8.701	8.701	(0.995)	30381	2.50000	2.4	
17 Chrysene	228	8.768	8.768	(1.003)	108148	2.50000	2.5	
* 18 Perylene-d12	264	11.248	11.248	(1.000)	1580486	40.0000		
19 Benzo(b)fluoranthene	252	10.541	10.541	(0.937)	116003	2.50000	2.4	
20 Benzo(k)fluoranthene	252	10.587	10.587	(0.941)	126225	2.50000	2.5	
21 Benzo(a)pyrene	252	11.104	11.104	(0.987)	108340	2.50000	2.5	
22 Indeno(1,2,3-cd)pyrene	276	12.985	12.985	(1.154)	102796	2.50000	2.3	
23 Dibenzo(a,h)anthracene	278	13.031	13.031	(1.159)	109204	2.50000	2.4	
24 Benzo(g,h,i)perylene	276	13.430	13.430	(1.194)	109066	2.50000	2.5	

QC Flag Legend

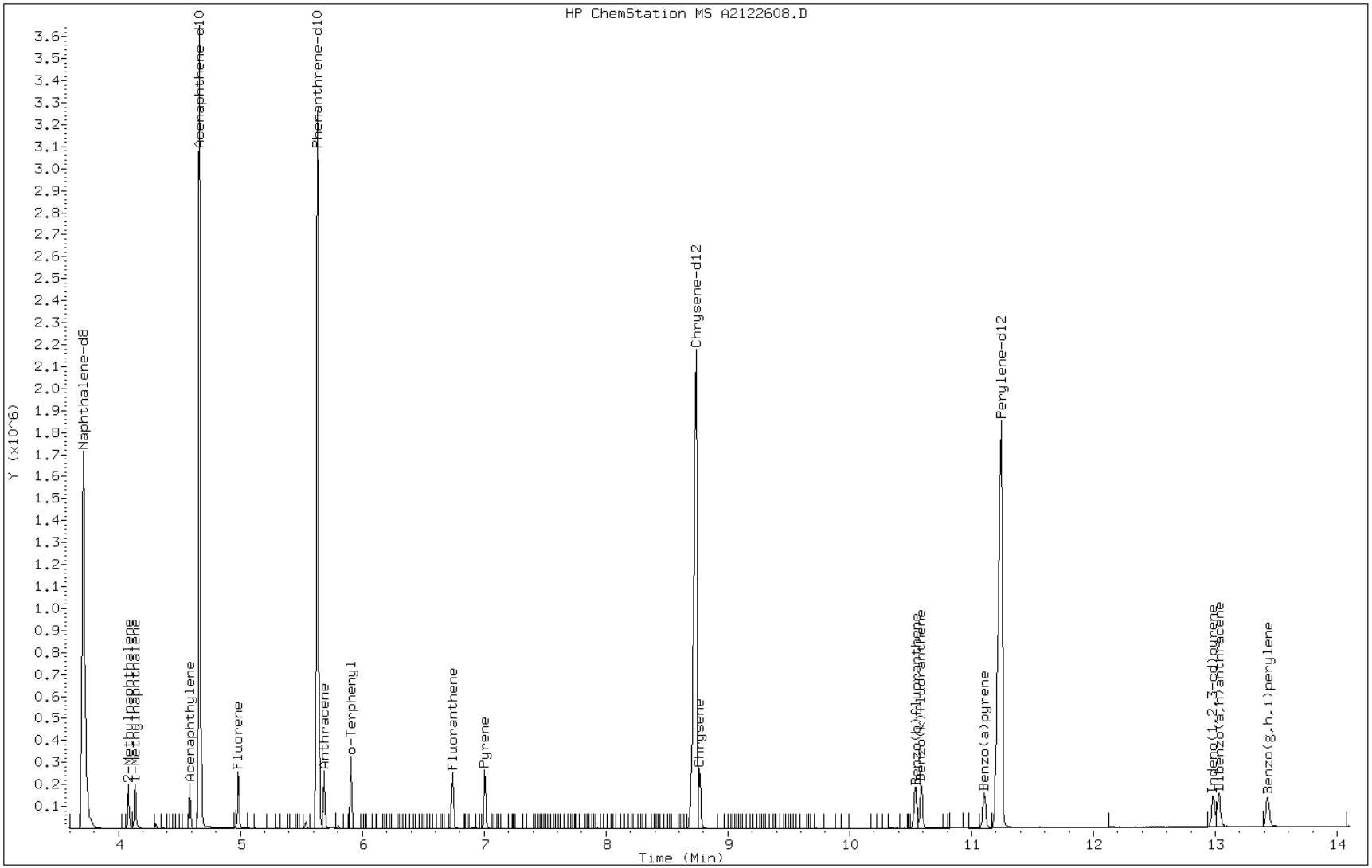
Q - Qualifier signal failed the ratio test.

Data File: A2122608.D

Date: 26-DEC-2012 14:27

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122609.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 14:46
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 14:27 Cal File: A2122608.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

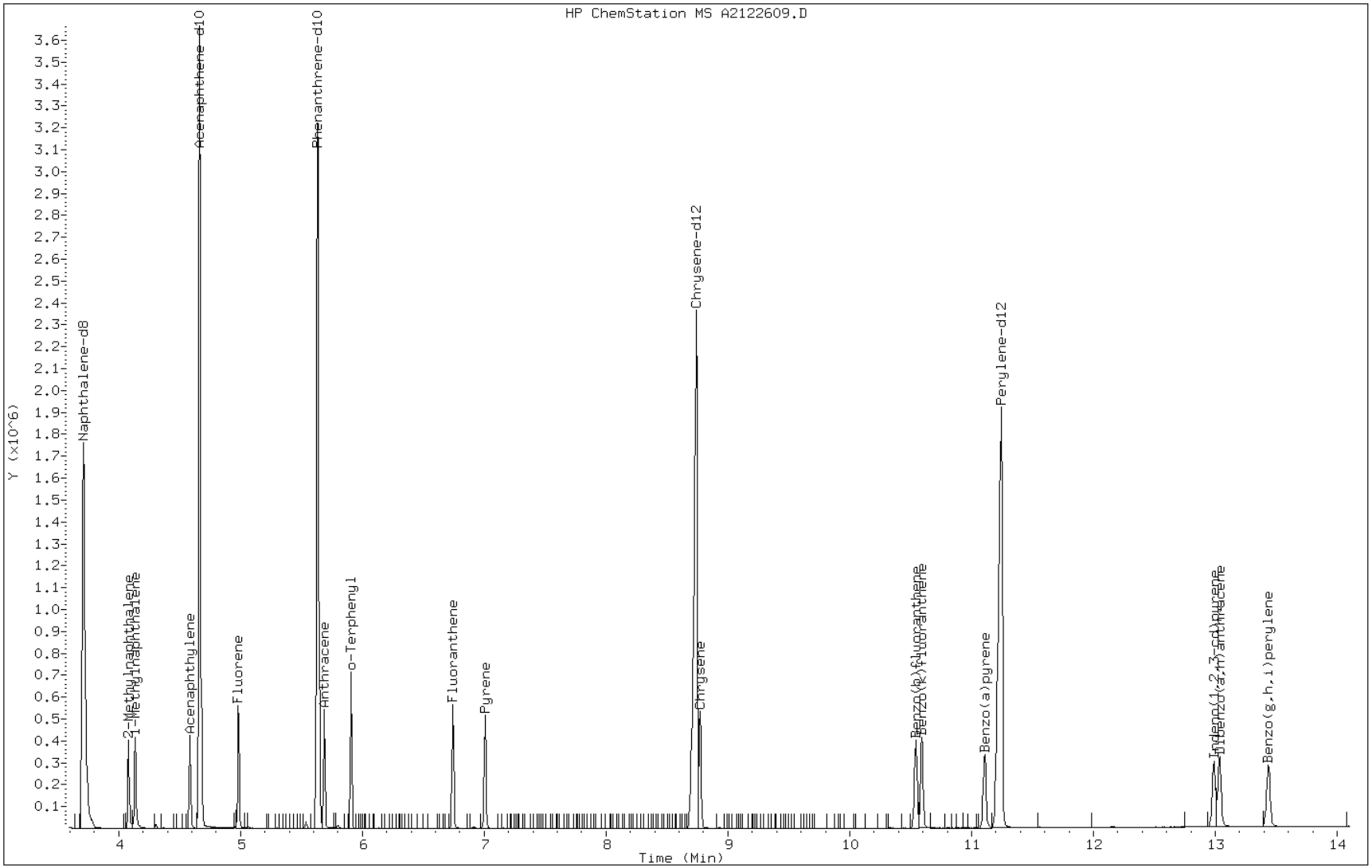
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.711	3.711	(1.000)	1480915	40.0000		
	2 Naphthalene	128	3.721	3.721	(1.003)	210289	5.00000	5.0	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	134127	5.00000	5.1	
	4 1-Methylnaphthalene	142	4.136	4.136	(1.115)	141415	5.00000	5.2	
*	5 Acenaphthene-d10	164	4.663	4.663	(1.000)	761131	40.0000		
	6 Acenaphthylene	152	4.587	4.587	(0.984)	212082	5.00000	5.2	
	7 Acenaphthene	153	4.684	4.684	(1.004)	120807	5.00000	5.0	
	8 Fluorene	166	4.986	4.986	(1.069)	150344	5.00000	5.2	
*	9 Phenanthrene-d10	188	5.632	5.632	(1.000)	1181646	40.0000		
	10 Phenanthrene	176	5.652	5.652	(1.004)	38412	5.00000	5.0	
	11 Anthracene	178	5.688	5.688	(1.010)	211858	5.00000	5.2	
$	12 o-Terphenyl	230	5.909	5.909	(1.049)	131179	5.00000	5.2	
	13 Fluoranthene	202	6.744	6.744	(1.197)	255229	5.00000	5.4	
*	14 Chrysene-d12	240	8.742	8.742	(1.000)	1400837	40.0000		
	15 Pyrene	202	7.010	7.010	(0.802)	252757	5.00000	5.3	
	16 Benzo(a)anthracene	226	8.701	8.701	(0.995)	63834	5.00000	5.0	
	17 Chrysene	228	8.773	8.773	(1.004)	222403	5.00000	5.1	
*	18 Perylene-d12	264	11.247	11.247	(1.000)	1598219	40.0000		
	19 Benzo(b)fluoranthene	252	10.545	10.545	(0.938)	251894	5.00000	5.1	
	20 Benzo(k)fluoranthene	252	10.591	10.591	(0.942)	260094	5.00000	5.2	
	21 Benzo(a)pyrene	252	11.109	11.109	(0.988)	225217	5.00000	5.0	
	22 Indeno(1,2,3-cd)pyrene	276	12.989	12.989	(1.155)	220313	5.00000	4.9	
	23 Dibenzo(a,h)anthracene	278	13.035	13.035	(1.159)	234240	5.00000	5.2	
	24 Benzo(g,h,i)perylene	276	13.440	13.440	(1.195)	224112	5.00000	5.0	

Data File: A2122609.D

Date: 26-DEC-2012 14:46

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122610.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 15:06
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 14:46 Cal File: A2122609.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

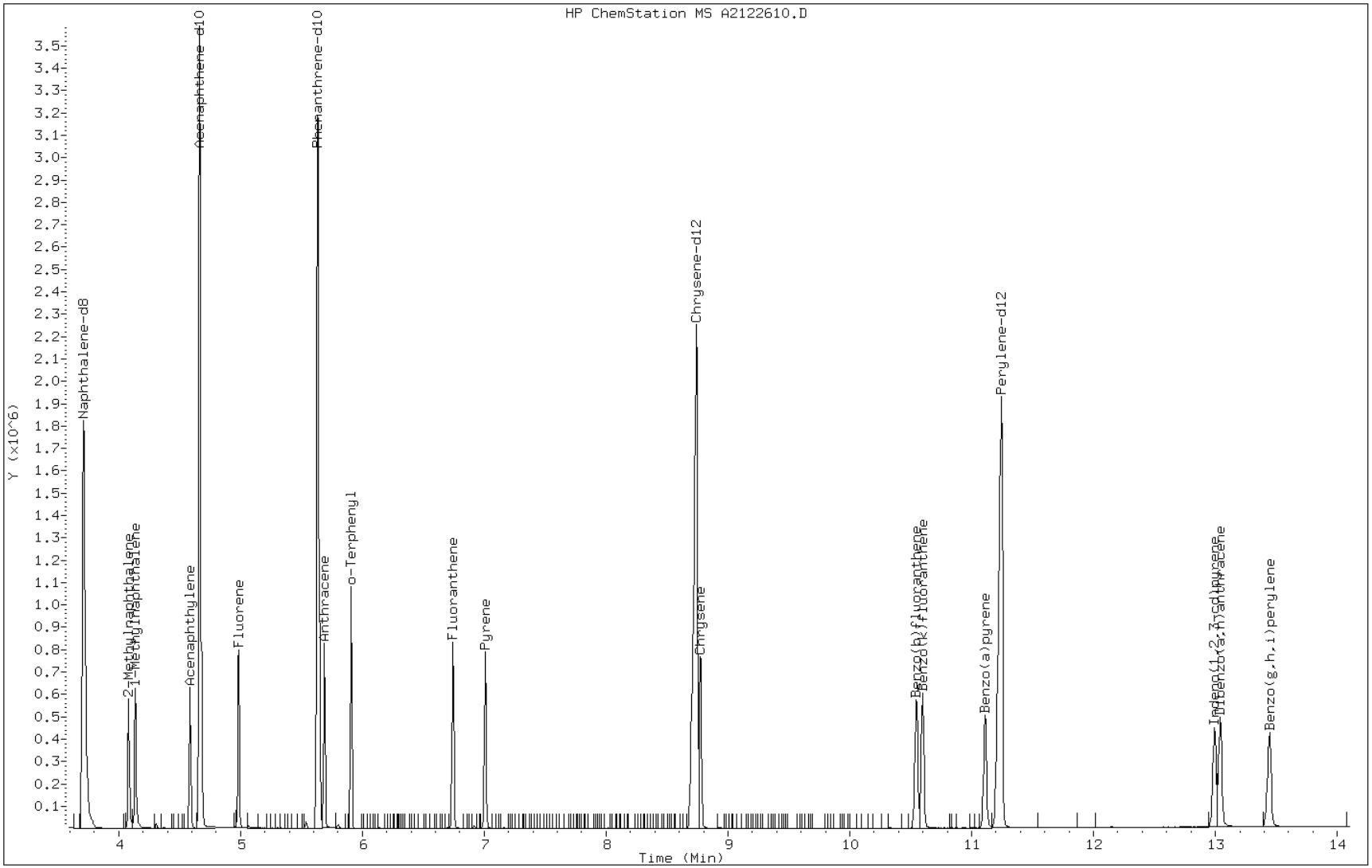
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	1471058	40.0000		
	2 Naphthalene	128	3.720	3.720	(1.003)	315807	7.50000	7.6	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	199823	7.50000	7.6	
	4 1-Methylnaphthalene	142	4.135	4.135	(1.115)	205761	7.50000	7.6	
*	5 Acenaphthene-d10	164	4.663	4.663	(1.000)	763999	40.0000		
	6 Acenaphthylene	152	4.586	4.586	(0.984)	310209	7.50000	7.6	
	7 Acenaphthene	153	4.684	4.684	(1.004)	177778	7.50000	7.5	
	8 Fluorene	166	4.986	4.986	(1.069)	220531	7.50000	7.7	
*	9 Phenanthrene-d10	188	5.637	5.637	(1.000)	1182468	40.0000		
	10 Phenanthrene	176	5.652	5.652	(1.003)	57684	7.50000	7.6	
	11 Anthracene	178	5.688	5.688	(1.009)	311723	7.50000	7.7	
$	12 o-Terphenyl	230	5.908	5.908	(1.048)	195382	7.50000	7.8	
	13 Fluoranthene	202	6.743	6.743	(1.196)	363970	7.50000	7.8	
*	14 Chrysene-d12	240	8.741	8.741	(1.000)	1402036	40.0000		
	15 Pyrene	202	7.010	7.010	(0.802)	362503	7.50000	7.6	
	16 Benzo(a)anthracene	226	8.706	8.706	(0.996)	95089	7.50000	7.5	
	17 Chrysene	228	8.777	8.777	(1.004)	330137	7.50000	7.6	
*	18 Perylene-d12	264	11.247	11.247	(1.000)	1601939	40.0000		
	19 Benzo(b)fluoranthene	252	10.545	10.545	(0.938)	378449	7.50000	7.7	
	20 Benzo(k)fluoranthene	252	10.601	10.601	(0.943)	387429	7.50000	7.7	
	21 Benzo(a)pyrene	252	11.108	11.108	(0.988)	339603	7.50000	7.6	
	22 Indeno(1,2,3-cd)pyrene	276	12.994	12.994	(1.155)	349069	7.50000	7.8	
	23 Dibenzo(a,h)anthracene	278	13.040	13.040	(1.159)	355559	7.50000	7.8	
	24 Benzo(g,h,i)perylene	276	13.445	13.445	(1.195)	342650	7.50000	7.7	

Data File: A2122610.D

Date: 26-DEC-2012 15:06

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122611.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 15:25
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 15:06 Cal File: A2122610.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

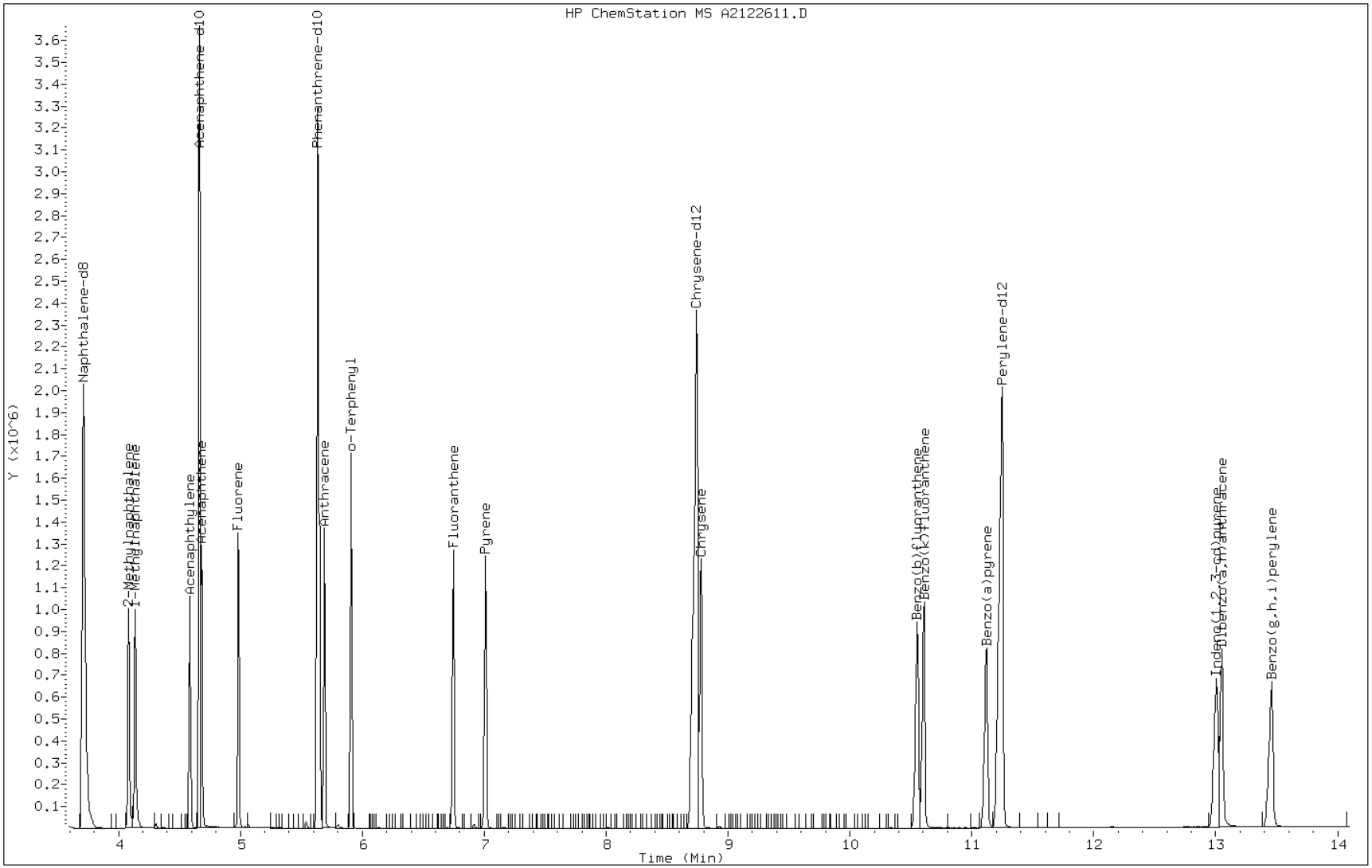
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.712	3.712	(1.000)	1497914	40.0000		
	2 Naphthalene	128	3.722	3.722	(1.003)	523642	12.5000	12	
	3 2-Methylnaphthalene	142	4.081	4.081	(1.099)	330213	12.5000	12	
	4 1-Methylnaphthalene	142	4.137	4.137	(1.115)	341209	12.5000	12	
*	5 Acenaphthene-d10	164	4.665	4.665	(1.000)	781248	40.0000		
	6 Acenaphthylene	152	4.583	4.583	(0.982)	510046	12.5000	12	
	7 Acenaphthene	153	4.680	4.680	(1.003)	288586	12.5000	12	
	8 Fluorene	166	4.982	4.982	(1.068)	360542	12.5000	12	
*	9 Phenanthrene-d10	188	5.633	5.633	(1.000)	1209120	40.0000		
	10 Phenanthrene	176	5.654	5.654	(1.004)	95939	12.5000	12	
	11 Anthracene	178	5.689	5.689	(1.010)	501492	12.5000	12	
$	12 o-Terphenyl	230	5.910	5.910	(1.049)	313311	12.5000	12	
	13 Fluoranthene	202	6.745	6.745	(1.197)	577542	12.5000	12	
*	14 Chrysene-d12	240	8.743	8.743	(1.000)	1418175	40.0000		
	15 Pyrene	202	7.011	7.011	(0.802)	577847	12.5000	12	
	16 Benzo(a)anthracene	226	8.707	8.707	(0.996)	157815	12.5000	12	
	17 Chrysene	228	8.779	8.779	(1.004)	543806	12.5000	12	
*	18 Perylene-d12	264	11.248	11.248	(1.000)	1620316	40.0000		
	19 Benzo(b)fluoranthene	252	10.552	10.552	(0.938)	634541	12.5000	13	
	20 Benzo(k)fluoranthene	252	10.608	10.608	(0.943)	627573	12.5000	12	
	21 Benzo(a)pyrene	252	11.120	11.120	(0.989)	564898	12.5000	12	
	22 Indeno(1,2,3-cd)pyrene	276	13.006	13.006	(1.156)	581421	12.5000	13	
	23 Dibenzo(a,h)anthracene	278	13.052	13.052	(1.160)	581000	12.5000	13	
	24 Benzo(g,h,i)perylene	276	13.457	13.457	(1.196)	567849	12.5000	12	

Data File: A2122611.D

Date: 26-DEC-2012 15:25

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122612.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 15:44
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 15:25 Cal File: A2122611.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

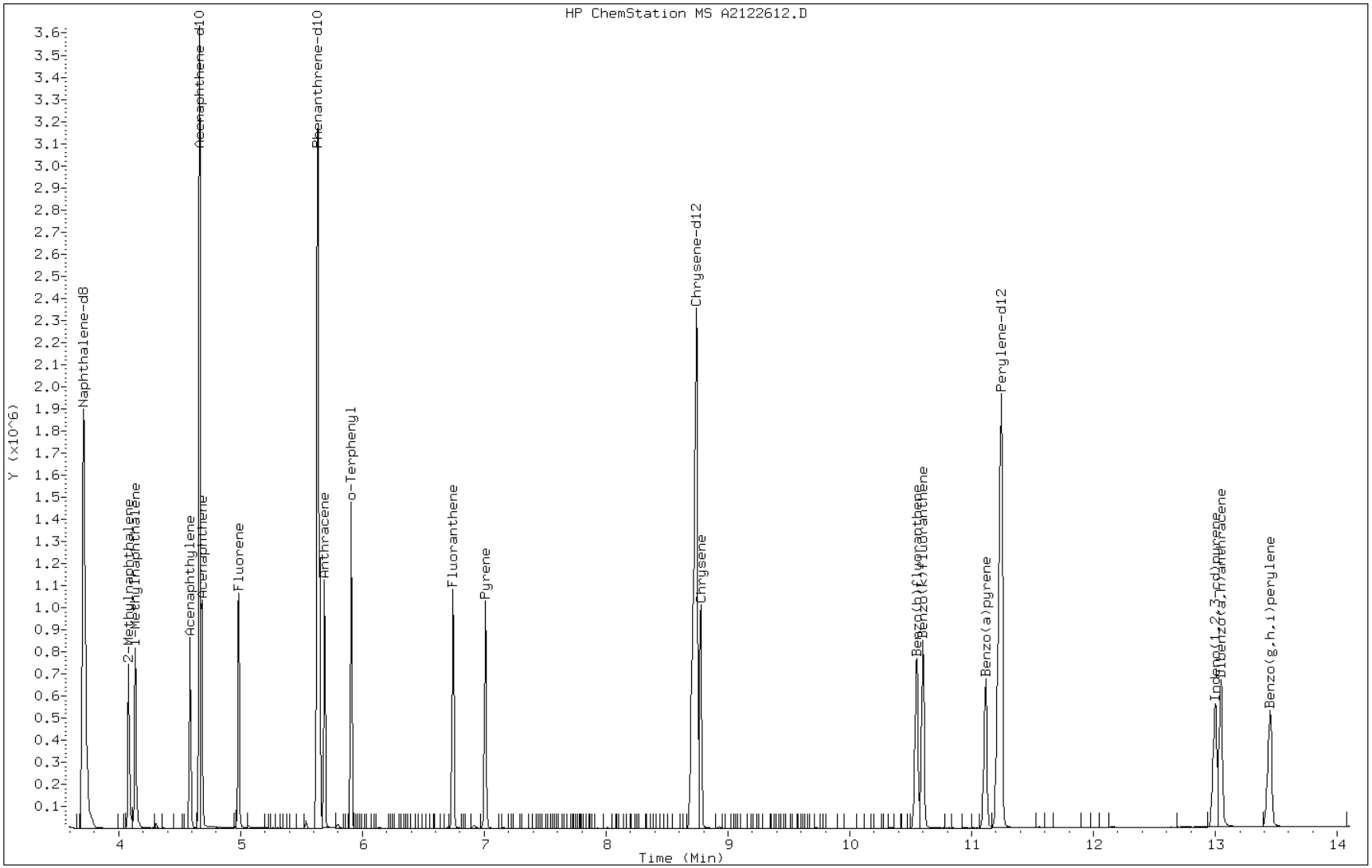
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	1503267	40.0000		
	2 Naphthalene	128	3.720	3.720	(1.003)	424763	10.0000	10	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	265766	10.0000	9.9	
	4 1-Methylnaphthalene	142	4.135	4.135	(1.115)	278100	10.0000	10	
*	5 Acenaphthene-d10	164	4.663	4.663	(1.000)	772163	40.0000		
	6 Acenaphthylene	152	4.586	4.586	(0.984)	406768	10.0000	9.8	
	7 Acenaphthene	153	4.684	4.684	(1.004)	236889	10.0000	10	
	8 Fluorene	166	4.986	4.986	(1.069)	293927	10.0000	10	
*	9 Phenanthrene-d10	188	5.637	5.637	(1.000)	1224513	40.0000		
	10 Phenanthrene	176	5.652	5.652	(1.003)	77654	10.0000	9.9	
	11 Anthracene	178	5.688	5.688	(1.009)	420525	10.0000	10	
$	12 o-Terphenyl	230	5.908	5.908	(1.048)	257205	10.0000	9.9	
	13 Fluoranthene	202	6.743	6.743	(1.196)	475768	10.0000	9.8	
*	14 Chrysene-d12	240	8.741	8.741	(1.000)	1434459	40.0000		
	15 Pyrene	202	7.010	7.010	(0.802)	474293	10.0000	9.7	
	16 Benzo(a)anthracene	226	8.705	8.705	(0.996)	129149	10.0000	10	
	17 Chrysene	228	8.777	8.777	(1.004)	444360	10.0000	10	
*	18 Perylene-d12	264	11.247	11.247	(1.000)	1638803	40.0000		
	19 Benzo(b)fluoranthene	252	10.550	10.550	(0.938)	510947	10.0000	10	
	20 Benzo(k)fluoranthene	252	10.601	10.601	(0.943)	524291	10.0000	10	
	21 Benzo(a)pyrene	252	11.114	11.114	(0.988)	463473	10.0000	10	
	22 Indeno(1,2,3-cd)pyrene	276	13.004	13.004	(1.156)	459352	10.0000	10	
	23 Dibenzo(a,h)anthracene	278	13.045	13.045	(1.160)	469134	10.0000	10	
	24 Benzo(g,h,i)perylene	276	13.450	13.450	(1.196)	456995	10.0000	10	

Data File: A2122612.D

Date: 26-DEC-2012 15:44

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122613.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 16:03
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 15:44 Cal File: A2122612.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

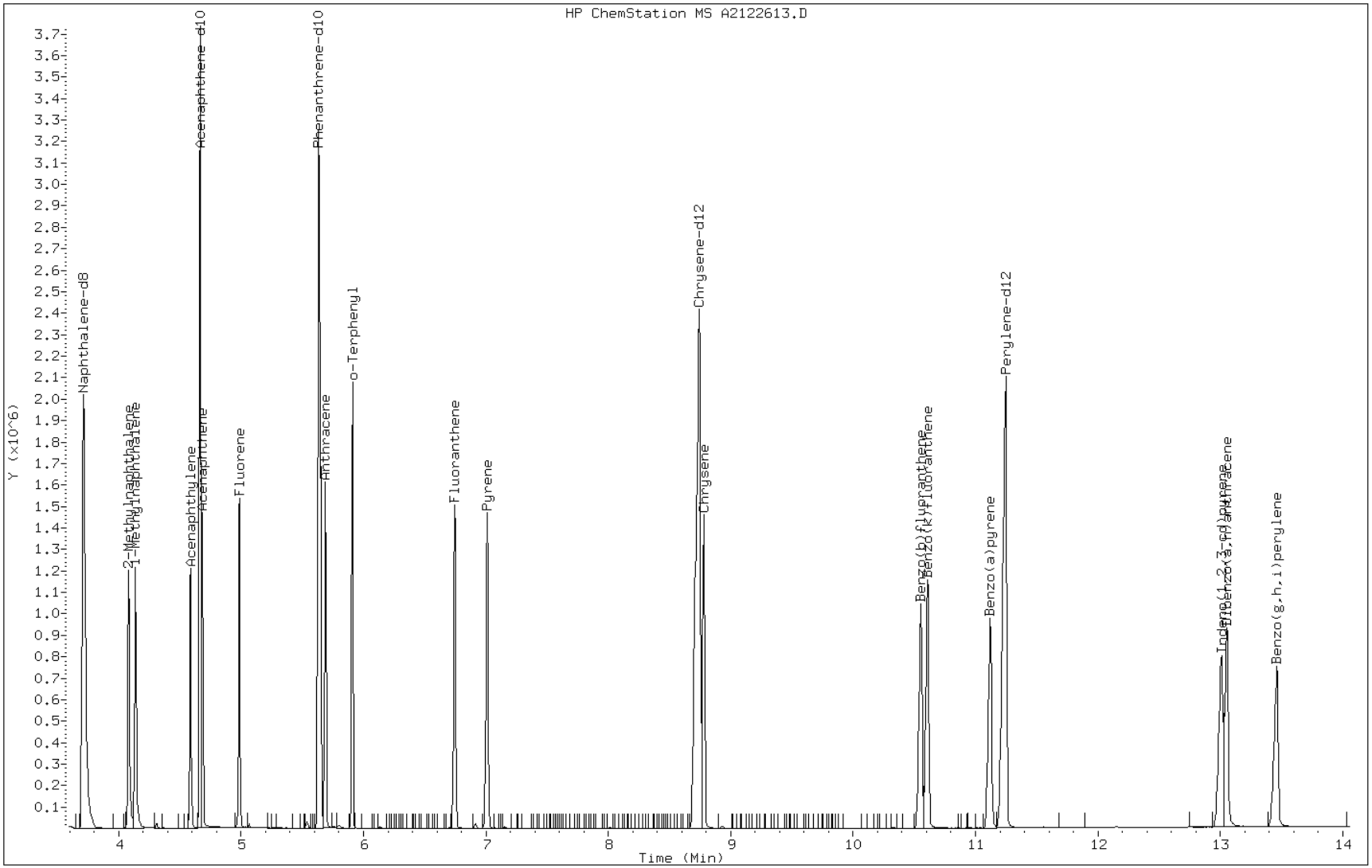
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.712	3.712	(1.000)	1506021	40.0000		
	2 Naphthalene	128	3.722	3.722	(1.003)	631115	15.0000	15	
	3 2-Methylnaphthalene	142	4.080	4.080	(1.099)	393403	15.0000	15	
	4 1-Methylnaphthalene	142	4.137	4.137	(1.115)	410307	15.0000	15	
*	5 Acenaphthene-d10	164	4.664	4.664	(1.000)	781822	40.0000		
	6 Acenaphthylene	152	4.588	4.588	(0.984)	604708	15.0000	14	
	7 Acenaphthene	153	4.685	4.685	(1.004)	348456	15.0000	15	
	8 Fluorene	166	4.987	4.987	(1.069)	428464	15.0000	14	
*	9 Phenanthrene-d10	188	5.633	5.633	(1.000)	1231367	40.0000		
	10 Phenanthrene	176	5.653	5.653	(1.004)	115496	15.0000	15	
	11 Anthracene	178	5.689	5.689	(1.010)	605145	15.0000	14	
$	12 o-Terphenyl	230	5.909	5.909	(1.049)	375386	15.0000	14	
	13 Fluoranthene	202	6.745	6.745	(1.197)	693725	15.0000	14	
*	14 Chrysene-d12	240	8.743	8.743	(1.000)	1433836	40.0000		
	15 Pyrene	202	7.011	7.011	(0.802)	702462	15.0000	14	
	16 Benzo(a)anthracene	226	8.707	8.707	(0.996)	193754	15.0000	15	
	17 Chrysene	228	8.784	8.784	(1.005)	659306	15.0000	15	
*	18 Perylene-d12	264	11.248	11.248	(1.000)	1659021	40.0000		
	19 Benzo(b)fluoranthene	252	10.556	10.556	(0.939)	758587	15.0000	15	
	20 Benzo(k)fluoranthene	252	10.613	10.613	(0.944)	757449	15.0000	14	
	21 Benzo(a)pyrene	252	11.120	11.120	(0.989)	681625	15.0000	15	
	22 Indeno(1,2,3-cd)pyrene	276	13.011	13.011	(1.157)	709045	15.0000	15	
	23 Dibenzo(a,h)anthracene	278	13.057	13.057	(1.161)	701247	15.0000	15	
	24 Benzo(g,h,i)perylene	276	13.467	13.467	(1.197)	680044	15.0000	15	

Data File: A2122613.D

Date: 26-DEC-2012 16:03

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122614.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 16:23
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^8_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 16:03 Cal File: A2122613.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

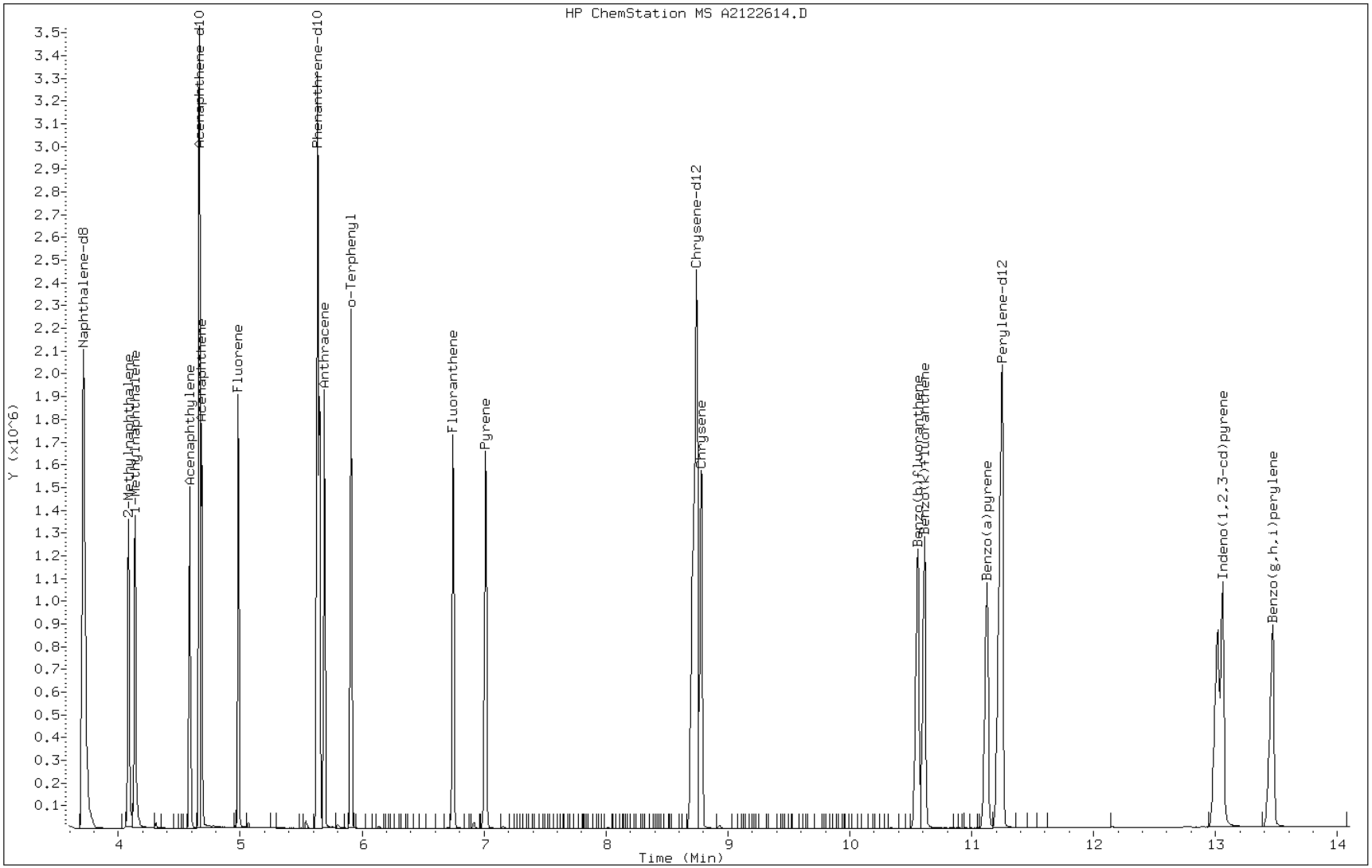
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.713	3.713	(1.000)	1471360	40.0000		
	2 Naphthalene	128	3.723	3.723	(1.003)	710607	17.5000	17	
	3 2-Methylnaphthalene	142	4.082	4.082	(1.099)	458960	17.5000	18	
	4 1-Methylnaphthalene	142	4.138	4.138	(1.115)	467452	17.5000	17	
*	5 Acenaphthene-d10	164	4.666	4.666	(1.000)	777338	40.0000		
	6 Acenaphthylene	152	4.584	4.584	(0.982)	689171	17.5000	16	
	7 Acenaphthene	153	4.682	4.682	(1.003)	397693	17.5000	18	
	8 Fluorene	166	4.984	4.984	(1.068)	490134	17.5000	17	
*	9 Phenanthrene-d10	188	5.635	5.635	(1.000)	1232550	40.0000		
	10 Phenanthrene	176	5.655	5.655	(1.004)	137018	17.5000	18	
	11 Anthracene	178	5.691	5.691	(1.010)	691544	17.5000	16	
$	12 o-Terphenyl	230	5.911	5.911	(1.049)	429797	17.5000	16	
	13 Fluoranthene	202	6.746	6.746	(1.197)	793911	17.5000	16	
*	14 Chrysene-d12	240	8.744	8.744	(1.000)	1413570	40.0000		
	15 Pyrene	202	7.013	7.013	(0.802)	807122	17.5000	17	
	16 Benzo(a)anthracene	226	8.709	8.709	(0.996)	222915	17.5000	18	
	17 Chrysene	228	8.785	8.785	(1.005)	749804	17.5000	17	
*	18 Perylene-d12	264	11.250	11.250	(1.000)	1638232	40.0000		
	19 Benzo(b)fluoranthene	252	10.558	10.558	(0.939)	872294	17.5000	17	
	20 Benzo(k)fluoranthene	252	10.615	10.615	(0.944)	870075	17.5000	17	
	21 Benzo(a)pyrene	252	11.127	11.127	(0.989)	794324	17.5000	17	
	22 Indeno(1,2,3-cd)pyrene	276	13.017	13.017	(1.157)	828049	17.5000	18	
	23 Dibenzo(a,h)anthracene	278	13.058	13.058	(1.161)	817841	17.5000	18	
	24 Benzo(g,h,i)perylene	276	13.468	13.468	(1.197)	778638	17.5000	17	

Data File: A2122614.D

Date: 26-DEC-2012 16:23

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^8_00019~1~8270D/625 Operator: VW



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122615.D
Lab Smp Id: IC
Inj Date : 26-DEC-2012 16:42
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^9_00019~1~8270D/625
Misc Info : 1A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 16:23 Cal File: A2122614.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.712	3.712	(1.000)	1491933	40.0000		
	2 Naphthalene	128	3.722	3.722	(1.003)	804090	20.0000	19	
	3 2-Methylnaphthalene	142	4.081	4.081	(1.099)	501359	20.0000	19	
	4 1-Methylnaphthalene	142	4.137	4.137	(1.115)	510414	20.0000	18	
*	5 Acenaphthene-d10	164	4.665	4.665	(1.000)	769853	40.0000		
	6 Acenaphthylene	152	4.583	4.583	(0.982)	756480	20.0000	18	
	7 Acenaphthene	153	4.686	4.686	(1.004)	436573	20.0000	20	
	8 Fluorene	166	4.988	4.988	(1.069)	539132	20.0000	19	
*	9 Phenanthrene-d10	188	5.633	5.633	(1.000)	1228095	40.0000		
	10 Phenanthrene	176	5.654	5.654	(1.004)	152018	20.0000	20	
	11 Anthracene	178	5.695	5.695	(1.011)	755209	20.0000	18	
$	12 o-Terphenyl	230	5.910	5.910	(1.049)	473530	20.0000	18	
	13 Fluoranthene	202	6.750	6.750	(1.198)	877574	20.0000	18	
*	14 Chrysene-d12	240	8.743	8.743	(1.000)	1396530	40.0000		
	15 Pyrene	202	7.017	7.017	(0.803)	884178	20.0000	18	
	16 Benzo(a)anthracene	226	8.708	8.708	(0.996)	245899	20.0000	20	
	17 Chrysene	228	8.784	8.784	(1.005)	832097	20.0000	19	
*	18 Perylene-d12	264	11.249	11.249	(1.000)	1616563	40.0000		
	19 Benzo(b)fluoranthene	252	10.562	10.562	(0.939)	970208	20.0000	19	
	20 Benzo(k)fluoranthene	252	10.619	10.619	(0.944)	949139	20.0000	19	
	21 Benzo(a)pyrene	252	11.126	11.126	(0.989)	878077	20.0000	19	
	22 Indeno(1,2,3-cd)pyrene	276	13.022	13.022	(1.158)	918338	20.0000	20(A)	
	23 Dibenzo(a,h)anthracene	278	13.063	13.063	(1.161)	845010	20.0000	18	
	24 Benzo(g,h,i)perylene	276	13.472	13.472	(1.198)	857194	20.0000	19	

QC Flag Legend

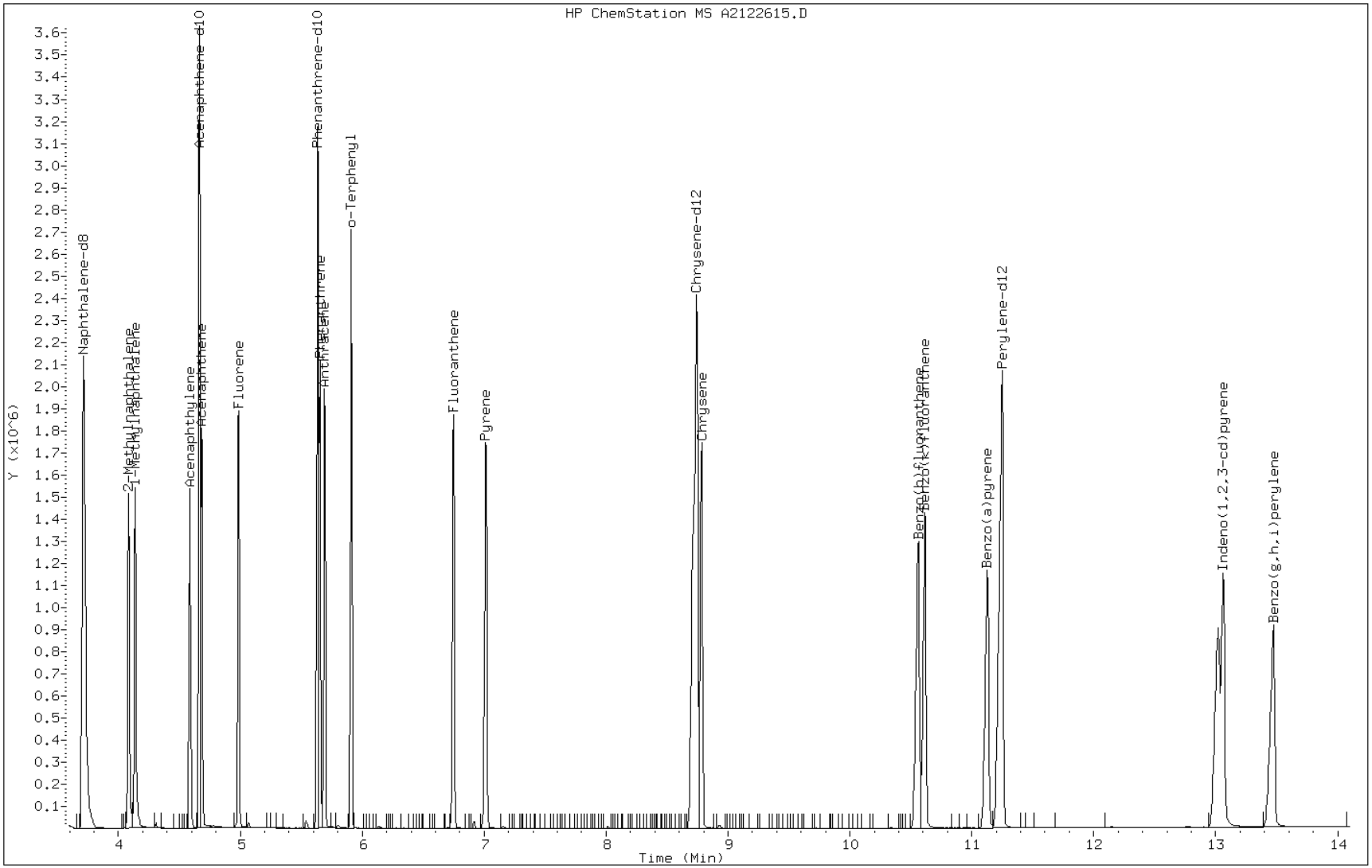
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: A2122615.D

Date: 26-DEC-2012 16:42

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^9_00019~1~8270D/625 Operator: VW



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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98254

SDG No.: 68085785-2

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/23/2012 11:54 Calibration End Date: 12/23/2012 14:25 Calibration ID: 1879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 640-98254/2	C2122302.D
Level 2	IC 640-98254/3	C2122303.D
Level 3	IC 640-98254/4	C2122304.D
Level 4	IC 640-98254/5	C2122305.D
Level 5	ICIS 640-98254/6	C2122306.D
Level 6	IC 640-98254/7	C2122307.D
Level 7	IC 640-98254/8	C2122308.D
Level 8	IC 640-98254/9	C2122309.D
Level 9	IC 640-98254/10	C2122310.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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Naphthalene	0.9589 0.9839	0.9560 0.9912	0.9785 0.9818	0.9930 0.9679	0.9865	Ave		0.9775			0.7000	1.4		20.0			
2-Methylnaphthalene	0.7384 0.7394	0.7494 0.7447	0.7549 0.7292	0.7500 0.7224	0.7482	Ave		0.7418			0.4000	1.4		20.0			
1-Methylnaphthalene	0.7540 0.7224	0.7433 0.7255	0.7236 0.7192	0.7439 0.6869	0.7304	Ave		0.7277			0.0010	2.7		20.0			
Acenaphthylene	2.2249 2.0798	2.1701 2.1105	2.2146 2.0940	2.2172 2.0767	2.1568	Ave		2.1494			0.9000	2.8		20.0			
Acenaphthene	1.2048 1.1024	1.1305 1.1181	1.1261 1.1059	1.1349 1.0749	1.1231	Ave		1.1245			0.9000	3.1		20.0			
Fluorene	1.5590 1.4807	1.5271 1.4825	1.4955 1.4698	1.5277 1.4507	1.5178	Ave		1.5012			0.9000	2.3		20.0			
Phenanthrene	1.3986 1.1248	1.1369 1.1070	1.1454 1.0971	1.1478 1.0799	1.1345	Lin1	-0.001	1.1081							0.9996		0.9900
Anthracene	1.3468 1.1830	1.2334 1.1718	1.2371 1.1827	1.2306 1.1394	1.2131	Lin2	0	1.1974							0.9993		0.9900
Fluoranthene	1.5998 1.4511	1.5357 1.4348	1.5479 1.4323	1.5280 1.3941	1.5029	Ave		1.4918			0.6000	4.5		20.0			
Pyrene	1.6200 1.4637	1.5279 1.4444	1.5377 1.4540	1.5313 1.4230	1.4853	Ave		1.4986			0.6000	4.1		20.0			
Benzo[a]anthracene	1.9538 1.3613	1.3657 1.3712	1.3733 1.3717	1.3913 1.3384	1.3720	Lin1	-0.001	1.3592							0.9999		0.9900
Chrysene	1.3318 1.1760	1.2044 1.1831	1.1838 1.1908	1.2120 1.1549	1.2038	Lin1	0	1.1812							0.9998		0.9900
Benzo[b]fluoranthene	1.3383 1.2542	1.2596 1.2648	1.3151 1.2423	1.3119 1.2039	1.2779	Ave		1.2742			0.7000	3.3		20.0			

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 Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98254

SDG No.: 68085785-2

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/23/2012 11:54 Calibration End Date: 12/23/2012 14:25 Calibration ID: 1879

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3902 1.2247	1.2711 1.2068	1.2799 1.1935	1.3081 1.1640	1.2215	Lin2	0	1.2328							0.9987		0.9900
Benzo[a]pyrene	1.3194 1.1299	1.1365 1.1277	1.1689 1.1201	1.1782 1.0938	1.1478	Lin1	-0.001	1.1261							0.9995		0.9900
Indeno[1,2,3-cd]pyrene	1.3134 1.1875	1.1710 1.1893	1.2546 1.1947	1.2189 1.1455	1.1974	Ave		1.2080			0.5000	4.1		20.0			
Dibenz(a,h)anthracene	1.3490 1.1285	1.1835 1.1286	1.2080 1.0983	1.2002 1.1003	1.1833	Lin2	0	1.1523							0.9987		0.9900
Benzo[g,h,i]perylene	1.4208 1.1799	1.2002 1.1538	1.2440 1.1276	1.2498 1.0956	1.2056	Lin2	-0.001	1.1806							0.9982		0.9900
o-Terphenyl (Surr)	0.8548 0.7197	0.7583 0.7057	0.7580 0.7002	0.7458 0.6904	0.7362	Lin2	0	0.7256							0.9989		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 Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98254

SDG No.: 68085785-2

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/23/2012 11:54 Calibration End Date: 12/23/2012 14:25 Calibration ID: 1879

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 640-98254/2	C2122302.D
Level 2	IC 640-98254/3	C2122303.D
Level 3	IC 640-98254/4	C2122304.D
Level 4	IC 640-98254/5	C2122305.D
Level 5	ICIS 640-98254/6	C2122306.D
Level 6	IC 640-98254/7	C2122307.D
Level 7	IC 640-98254/8	C2122308.D
Level 8	IC 640-98254/9	C2122309.D
Level 9	IC 640-98254/10	C2122310.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene	NPT	Ave	14429 1782375	358684 2110744	727068 2457950	1095839 2744339	1426319	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
2-Methylnaphthalene	NPT	Ave	11110 1339416	281152 1585887	560963 1825567	827689 2048199	1081834	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
1-Methylnaphthalene	NPT	Ave	11346 1308645	278866 1544882	537684 1800524	820928 1947585	1056006	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Acenaphthylene	ANT	Ave	18086 2035226	435710 2407807	889742 2808171	1298031 3153668	1678594	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Acenaphthene	ANT	Ave	9794 1078765	226990 1275613	452404 1483139	664411 1632347	874085	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Fluorene	ANT	Ave	12673 1448977	306609 1691333	600812 1971158	894359 2203031	1181241	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Phenanthrene	PHN	Lin1	18160 1835194	375547 2165718	752372 2494638	1119951 2809182	1478883	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Anthracene	PHN	Lin2	17488 1930188	407452 2292444	812586 2689264	1200752 2964016	1581350	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Fluoranthene	PHN	Ave	20773 2367694	507298 2806901	1016714 3256989	1490957 3626641	1959125	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Pyrene	CRY	Ave	21361 2356208	514004 2785567	1017595 3236788	1490906 3591486	1934349	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[a]anthracene	CRY	Lin1	25763 2191372	459443 2644448	908806 3053618	1354553 3377980	1786876	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Chrysene	CRY	Lin1	17561 1893029	405163 2281690	783417 2650935	1179989 2914880	1567781	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[b]fluoranthene	PRY	Ave	19424 2262495	472776 2721725	957779 3094634	1384469 3401195	1850718	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[k]fluoranthene	PRY	Lin2	20177 2209200	477094 2596770	932098 2973143	1380372 3288338	1769021	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2 Analy Batch No.: 98254

SDG No.: 68085785-2

Instrument ID: SMC GC Column: ZB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/23/2012 11:54 Calibration End Date: 12/23/2012 14:25 Calibration ID: 1879

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[a]pyrene	PRY	Lin1	19149 2038178	426577 2426740	851306 2790226	1243304 3089924	1662219	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	19062 2142172	439502 2559163	913708 2976044	1286286 3236201	1734069	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Dibenz(a,h)anthracene	PRY	Lin2	19579 2035723	444219 2428601	879796 2736041	1266542 3108388	1713626	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
Benzo[g,h,i]perylene	PRY	Lin2	20621 2128340	450476 2482881	905948 2808872	1318909 3095087	1745927	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0
o-Terphenyl (Surr)	PHN	Lin2	11099 1174253	250480 1380562	497880 1592260	727706 1796064	959705	0.100 12.5	2.50 15.0	5.00 17.5	7.50 20.0	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122302.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 11:54
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^1_00022~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 11:54 Cal File: C2122302.D
Als bottle: 86 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.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	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.942)	6440	0.10000	0.099(aM)	BAS
* 1 Naphthalene-d8	136	3.549	3.544	(1.000)	6018771	40.0000		
2 Naphthalene	128	3.559	3.560	(1.003)	14429	0.10000	0.098(a)	
3 2-Methylnaphthalene	142	3.922	3.923	(1.105)	11110	0.10000	0.100(a)	
4 1-Methylnaphthalene	142	3.979	3.980	(1.121)	11346	0.10000	0.10(a)	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3251620	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	18086	0.10000	0.10(a)	
7 Acenaphthene	154	4.523	4.524	(1.005)	9794	0.10000	0.11(aM)	SP
8 Fluorene	166	4.814	4.814	(1.069)	12673	0.10000	0.10(a)	
* 9 Phenanthrene-d10	188	5.435	5.431	(1.000)	5193798	40.0000		
10 Phenanthrene	178	5.446	5.451	(1.002)	18160	0.10000	0.094(a)	
11 Anthracene	178	5.482	5.488	(1.009)	17488	0.10000	0.100(a)	
$ 12 o-Terphenyl	230	5.689	5.695	(1.047)	11099	0.10000	0.100(a)	
13 Fluoranthene	202	6.487	6.493	(1.194)	20773	0.10000	0.11(a)	
* 14 Chrysene-d12	240	8.410	8.416	(1.000)	5274356	40.0000		
15 Pyrene	202	6.741	6.747	(0.802)	21361	0.10000	0.11(a)	
16 Benzo(a)anthracene	228	8.379	8.385	(0.996)	25763	0.10000	0.100(a)	
17 Chrysene	228	8.441	8.452	(1.004)	17561	0.10000	0.097(a)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 18 Perylene-d12	264	10.861	10.862	(1.000)	5805456	40.0000		
19 Benzo(b)fluoranthene	252	10.172	10.193	(0.937)	19424	0.10000	0.10(a)	
20 Benzo(k)fluoranthene	252	10.224	10.245	(0.941)	20177	0.10000	0.100(a)	
21 Benzo(a)pyrene	252	10.726	10.748	(0.988)	19149	0.10000	0.094(a)	
22 Indeno(1,2,3-cd)pyrene	276	12.577	12.608	(1.158)	19062	0.10000	0.11(aH)	
23 Dibenzo(a,h)anthracene	278	12.618	12.644	(1.162)	19579	0.10000	0.100(a)	
24 Benzo(g,h,i)perylene	276	12.991	13.028	(1.196)	20621	0.10000	0.100(a)	

QC Flag Legend

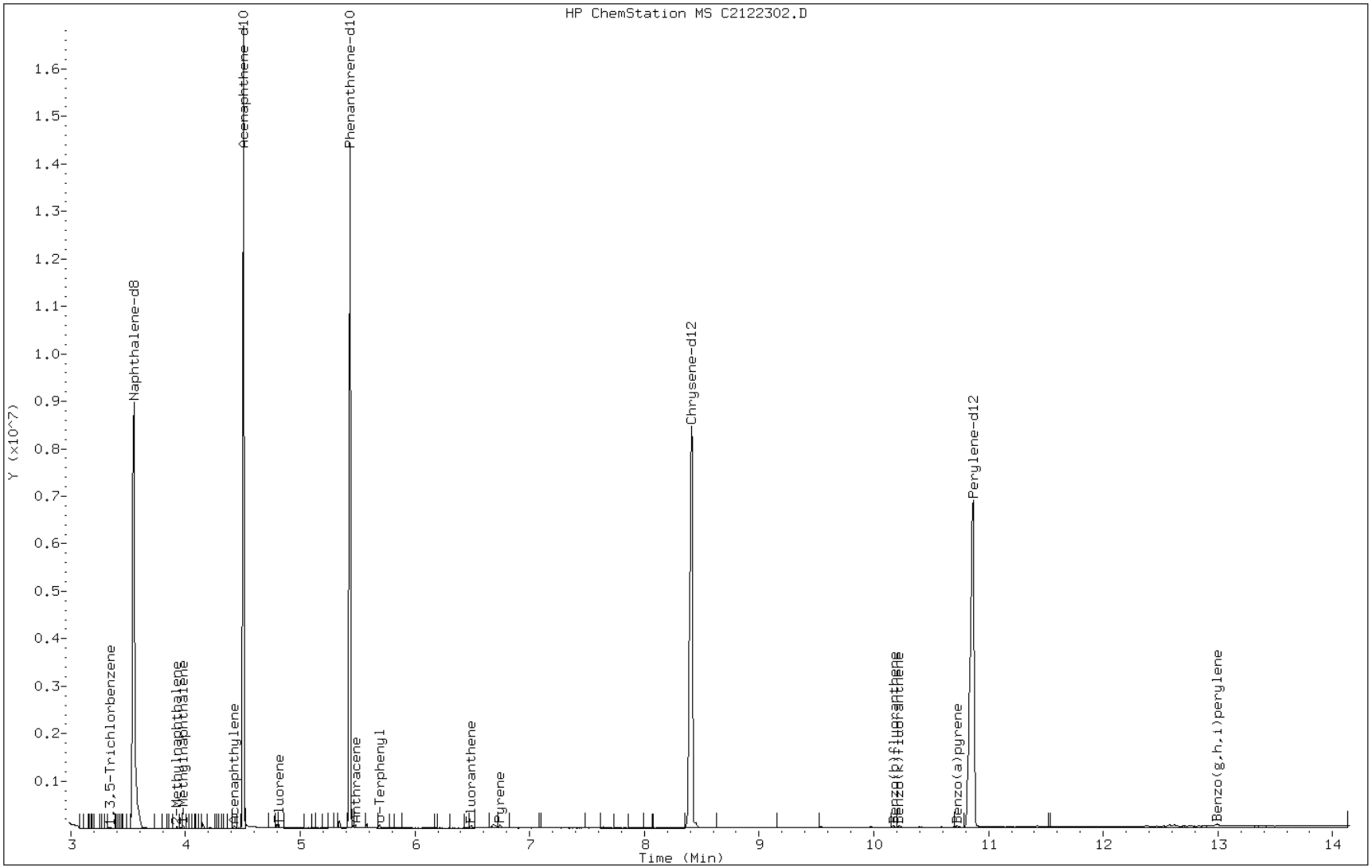
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: C2122302.D

Date: 23-DEC-2012 11:54

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^1_00022~1~8270DLL Operator: MF



Manual Integration Report

Data File: C2122302.D
Inj. Date and Time: 23-DEC-2012 11:54
Instrument ID: TSMC5973.i
Client ID: IC
Compound: 7 Acenaphthene
CAS #: 83-32-9
Report Date: 12/24/2012

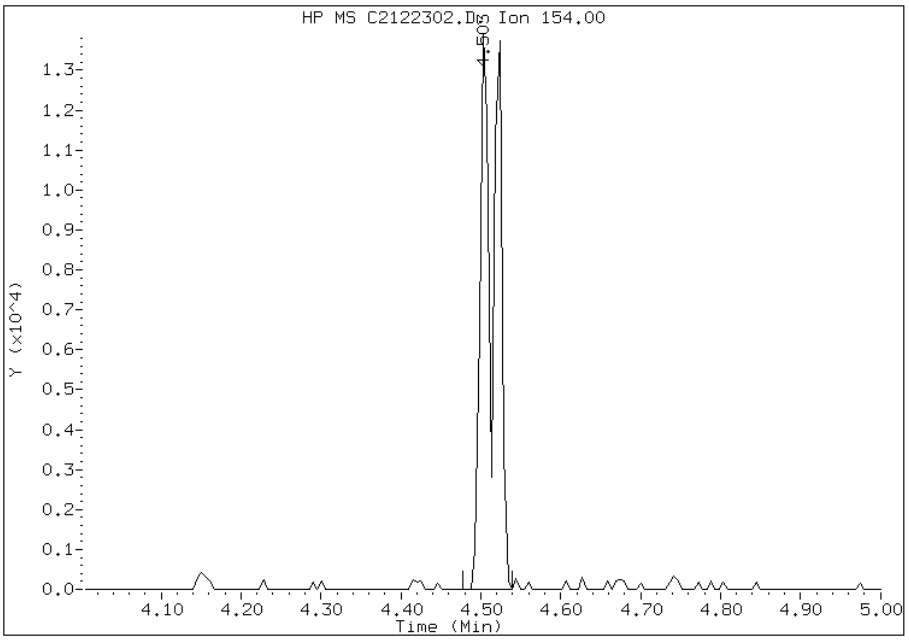
Processing Integration Results

RT: 4.50

Response: 20113

Amount: 0

Conc: 0



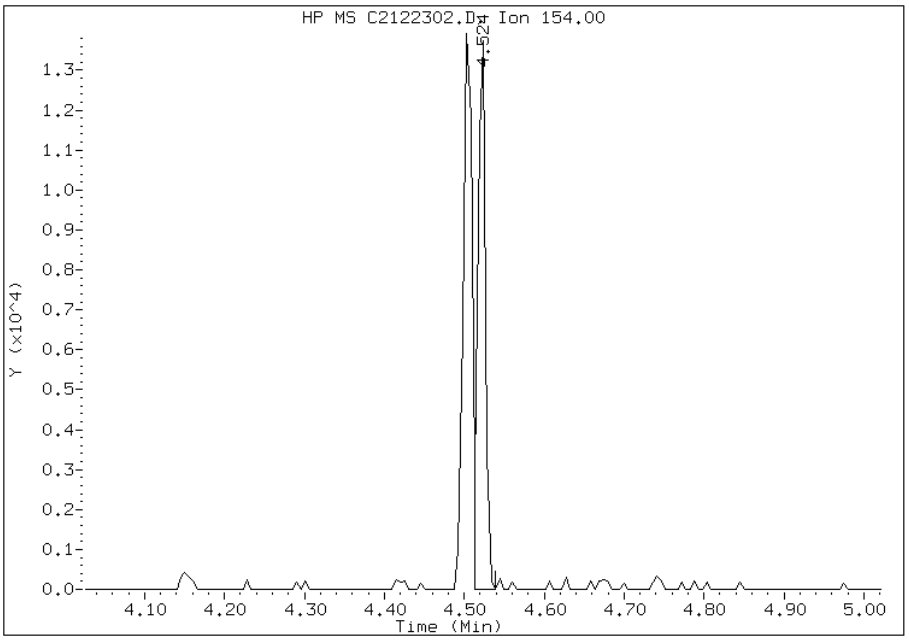
Manual Integration Results

RT: 4.52

Response: 9794

Amount: 0

Conc: 0



Manually Integrated By: mfrank
Modification Date: 23-Dec-2012 12:12
Manual Integration Reason: Split Peak

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122303.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 12:13
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^2_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 11:54 Cal File: C2122302.D
Als bottle: 87 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

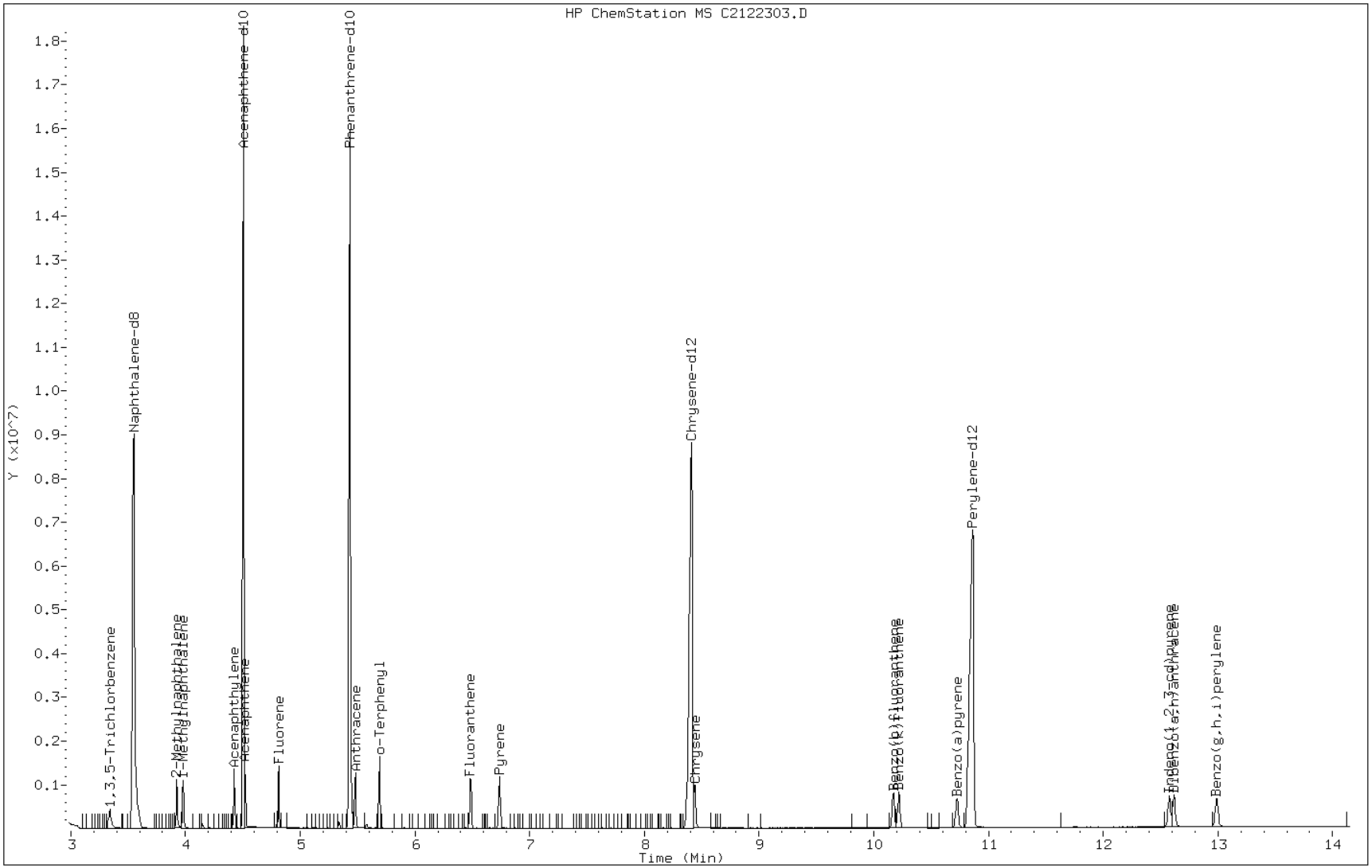
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.942)	158153	2.50000	2.4	
* 1 Naphthalene-d8	136	3.549	3.549	(1.000)	6002843	40.0000		
2 Naphthalene	128	3.560	3.560	(1.003)	358684	2.50000	2.4	
3 2-Methylnaphthalene	142	3.922	3.922	(1.105)	281152	2.50000	2.5	
4 1-Methylnaphthalene	142	3.980	3.980	(1.121)	278866	2.50000	2.6	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3212505	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	435710	2.50000	2.5	
7 Acenaphthene	154	4.518	4.518	(1.003)	226990	2.50000	2.5	
8 Fluorene	166	4.814	4.814	(1.069)	306609	2.50000	2.5	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5285364	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	375547	2.50000	2.5	
11 Anthracene	178	5.482	5.482	(1.010)	407452	2.50000	2.6	
$ 12 o-Terphenyl	230	5.690	5.690	(1.048)	250480	2.50000	2.6	
13 Fluoranthene	202	6.488	6.488	(1.195)	507298	2.50000	2.6	
* 14 Chrysene-d12	240	8.410	8.410	(1.000)	5382465	40.0000		
15 Pyrene	202	6.736	6.736	(0.801)	514004	2.50000	2.5	
16 Benzo(a)anthracene	228	8.374	8.374	(0.996)	459443	2.50000	2.5	
17 Chrysene	228	8.441	8.441	(1.004)	405163	2.50000	2.5	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	6005329	40.0000		
19 Benzo(b)fluoranthene	252	10.172	10.172	(0.937)	472776	2.50000	2.5	
20 Benzo(k)fluoranthene	252	10.219	10.219	(0.941)	477094	2.50000	2.6	
21 Benzo(a)pyrene	252	10.727	10.727	(0.988)	426577	2.50000	2.5	
22 Indeno(1,2,3-cd)pyrene	276	12.577	12.577	(1.158)	439502	2.50000	2.4	
23 Dibenzo(a,h)anthracene	278	12.618	12.618	(1.162)	444219	2.50000	2.6	
24 Benzo(g,h,i)perylene	276	12.986	12.986	(1.196)	450476	2.50000	2.5	

Data File: C2122303.D

Date: 23-DEC-2012 12:13

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^2_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122304.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 12:32
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^3_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 12:13 Cal File: C2122303.D
Als bottle: 88 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

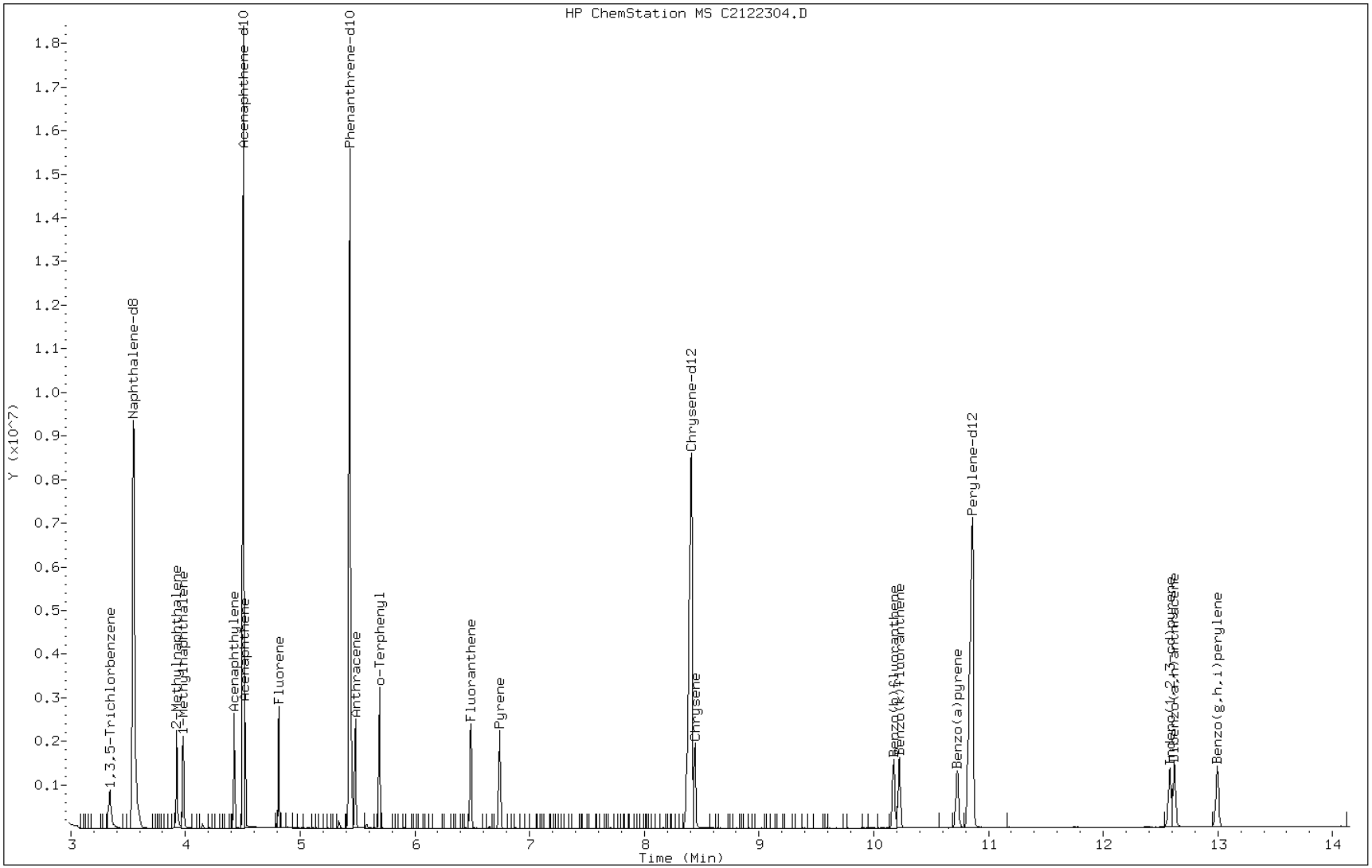
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	329362	5.00000	5.1	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5944401	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	727068	5.00000	5.0	
3 2-Methylnaphthalene	142	3.923	3.923	(1.107)	560963	5.00000	5.1	
4 1-Methylnaphthalene	142	3.980	3.980	(1.123)	537684	5.00000	5.0	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3214072	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	889742	5.00000	5.2	
7 Acenaphthene	154	4.519	4.519	(1.003)	452404	5.00000	5.0	
8 Fluorene	166	4.814	4.814	(1.069)	600812	5.00000	5.0	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5254812	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	752372	5.00000	5.1	
11 Anthracene	178	5.483	5.483	(1.010)	812586	5.00000	5.2	
$ 12 o-Terphenyl	230	5.690	5.690	(1.048)	497880	5.00000	5.2	
13 Fluoranthene	202	6.488	6.488	(1.195)	1016714	5.00000	5.2	
* 14 Chrysene-d12	240	8.411	8.411	(1.000)	5294173	40.0000		
15 Pyrene	202	6.737	6.737	(0.801)	1017595	5.00000	5.1	
16 Benzo(a)anthracene	228	8.374	8.374	(0.996)	908806	5.00000	5.0	
17 Chrysene	228	8.442	8.442	(1.004)	783417	5.00000	5.0	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	5826261	40.0000		
19 Benzo(b)fluoranthene	252	10.172	10.172	(0.937)	957779	5.00000	5.2	
20 Benzo(k)fluoranthene	252	10.224	10.224	(0.941)	932098	5.00000	5.2	
21 Benzo(a)pyrene	252	10.727	10.727	(0.988)	851306	5.00000	5.2	
22 Indeno(1,2,3-cd)pyrene	276	12.582	12.582	(1.158)	913708	5.00000	5.2	
23 Dibenzo(a,h)anthracene	278	12.624	12.624	(1.162)	879796	5.00000	5.2	
24 Benzo(g,h,i)perylene	276	12.997	12.997	(1.197)	905948	5.00000	5.2	

Data File: C2122304.D

Date: 23-DEC-2012 12:32

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^3_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122305.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 12:51
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^4_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 12:32 Cal File: C2122304.D
Als bottle: 89 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

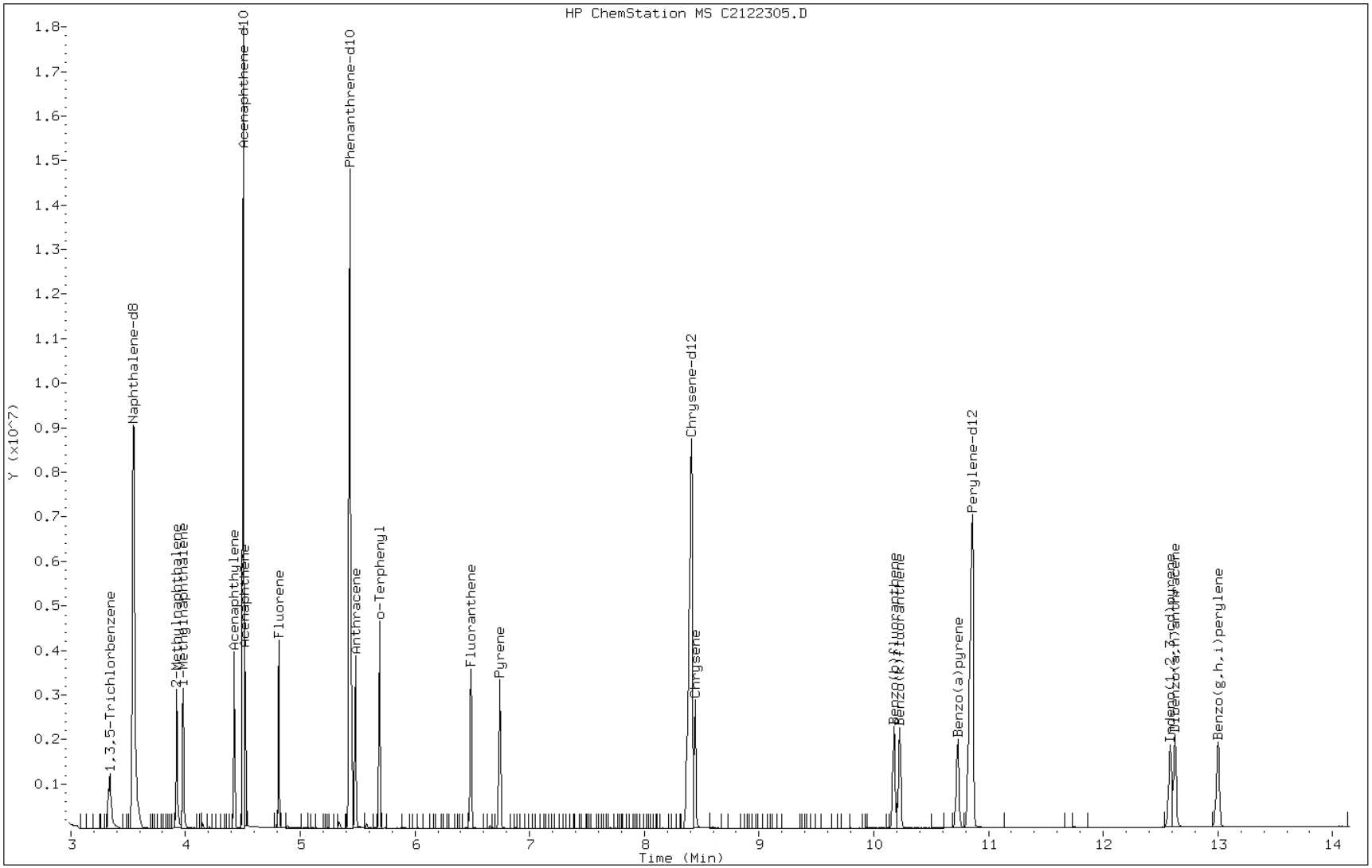
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	482374	7.50000	7.6	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5885924	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	1095839	7.50000	7.6	
3 2-Methylnaphthalene	142	3.922	3.922	(1.107)	827689	7.50000	7.6	
4 1-Methylnaphthalene	142	3.979	3.979	(1.123)	820928	7.50000	7.7	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3122287	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	1298031	7.50000	7.7	
7 Acenaphthene	154	4.518	4.518	(1.003)	664411	7.50000	7.6	
8 Fluorene	166	4.814	4.814	(1.069)	894359	7.50000	7.6	
* 9 Phenanthrene-d10	188	5.430	5.430	(1.000)	5204108	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	1119951	7.50000	7.7	
11 Anthracene	178	5.482	5.482	(1.010)	1200752	7.50000	7.7	
$ 12 o-Terphenyl	230	5.690	5.690	(1.048)	727706	7.50000	7.7	
13 Fluoranthene	202	6.488	6.488	(1.195)	1490957	7.50000	7.7	
* 14 Chrysene-d12	240	8.410	8.410	(1.000)	5192614	40.0000		
15 Pyrene	202	6.742	6.742	(0.802)	1490906	7.50000	7.7	
16 Benzo(a)anthracene	228	8.374	8.374	(0.996)	1354553	7.50000	7.6	
17 Chrysene	228	8.441	8.441	(1.004)	1179989	7.50000	7.7	
* 18 Perylene-d12	264	10.861	10.861	(1.000)	5628201	40.0000		
19 Benzo(b)fluoranthene	252	10.177	10.177	(0.937)	1384469	7.50000	7.7	
20 Benzo(k)fluoranthene	252	10.229	10.229	(0.942)	1380372	7.50000	7.9	
21 Benzo(a)pyrene	252	10.732	10.732	(0.988)	1243304	7.50000	7.8	
22 Indeno(1,2,3-cd)pyrene	276	12.587	12.587	(1.159)	1286286	7.50000	7.6	
23 Dibenzo(a,h)anthracene	278	12.629	12.629	(1.163)	1266542	7.50000	7.8	
24 Benzo(g,h,i)perylene	276	13.002	13.002	(1.197)	1318909	7.50000	7.9	

Data File: C2122305.D

Date: 23-DEC-2012 12:51

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^4_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122306.D
Lab Smp Id: ICIS Client Smp ID: ICIS
Inj Date : 23-DEC-2012 13:09
Operator : MF Inst ID: TSMC5973.i
Smp Info : ICIS~SMI_PAH^5_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 12:51 Cal File: C2122305.D
Als bottle: 90 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

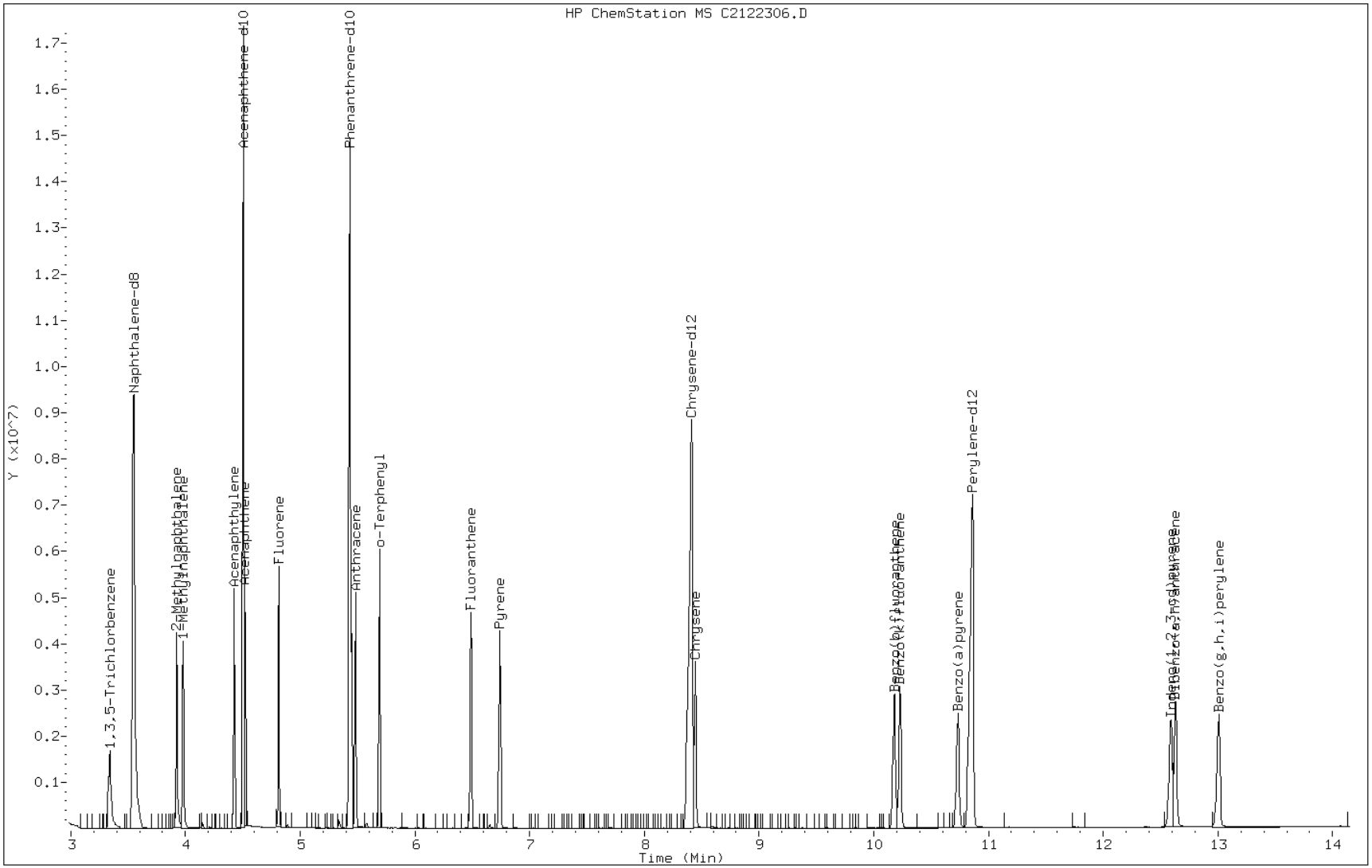
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	631845	10.0000	10	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5783313	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	1426319	10.0000	10	
3 2-Methylnaphthalene	142	3.923	3.923	(1.107)	1081834	10.0000	10	
4 1-Methylnaphthalene	142	3.980	3.980	(1.123)	1056006	10.0000	10	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3113114	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	1678594	10.0000	10	
7 Acenaphthene	154	4.519	4.519	(1.003)	874085	10.0000	10	
8 Fluorene	166	4.814	4.814	(1.069)	1181241	10.0000	10	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5214418	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	1478883	10.0000	10	
11 Anthracene	178	5.482	5.482	(1.010)	1581350	10.0000	10	
$ 12 o-Terphenyl	230	5.690	5.690	(1.048)	959705	10.0000	10	
13 Fluoranthene	202	6.488	6.488	(1.195)	1959125	10.0000	10	
* 14 Chrysene-d12	240	8.410	8.410	(1.000)	5209469	40.0000		
15 Pyrene	202	6.742	6.742	(0.802)	1934349	10.0000	9.9	
16 Benzo(a)anthracene	228	8.379	8.379	(0.996)	1786876	10.0000	10	
17 Chrysene	228	8.447	8.447	(1.004)	1567781	10.0000	10	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	5792817	40.0000		
19 Benzo(b)fluoranthene	252	10.183	10.183	(0.937)	1850718	10.0000	10	
20 Benzo(k)fluoranthene	252	10.229	10.229	(0.942)	1769021	10.0000	9.9	
21 Benzo(a)pyrene	252	10.737	10.737	(0.989)	1662219	10.0000	10	
22 Indeno(1,2,3-cd)pyrene	276	12.592	12.592	(1.159)	1734069	10.0000	9.9	
23 Dibenzo(a,h)anthracene	278	12.634	12.634	(1.163)	1713626	10.0000	10	
24 Benzo(g,h,i)perylene	276	13.007	13.007	(1.198)	1745927	10.0000	10	

Data File: C2122306.D

Date: 23-DEC-2012 13:09

Client ID: ICIS Instrument: TSMC5973.i

Sample Info: ICIS~SMI_PAH^5_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122307.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 13:28
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^6_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 13:09 Cal File: C2122306.D
Als bottle: 91 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

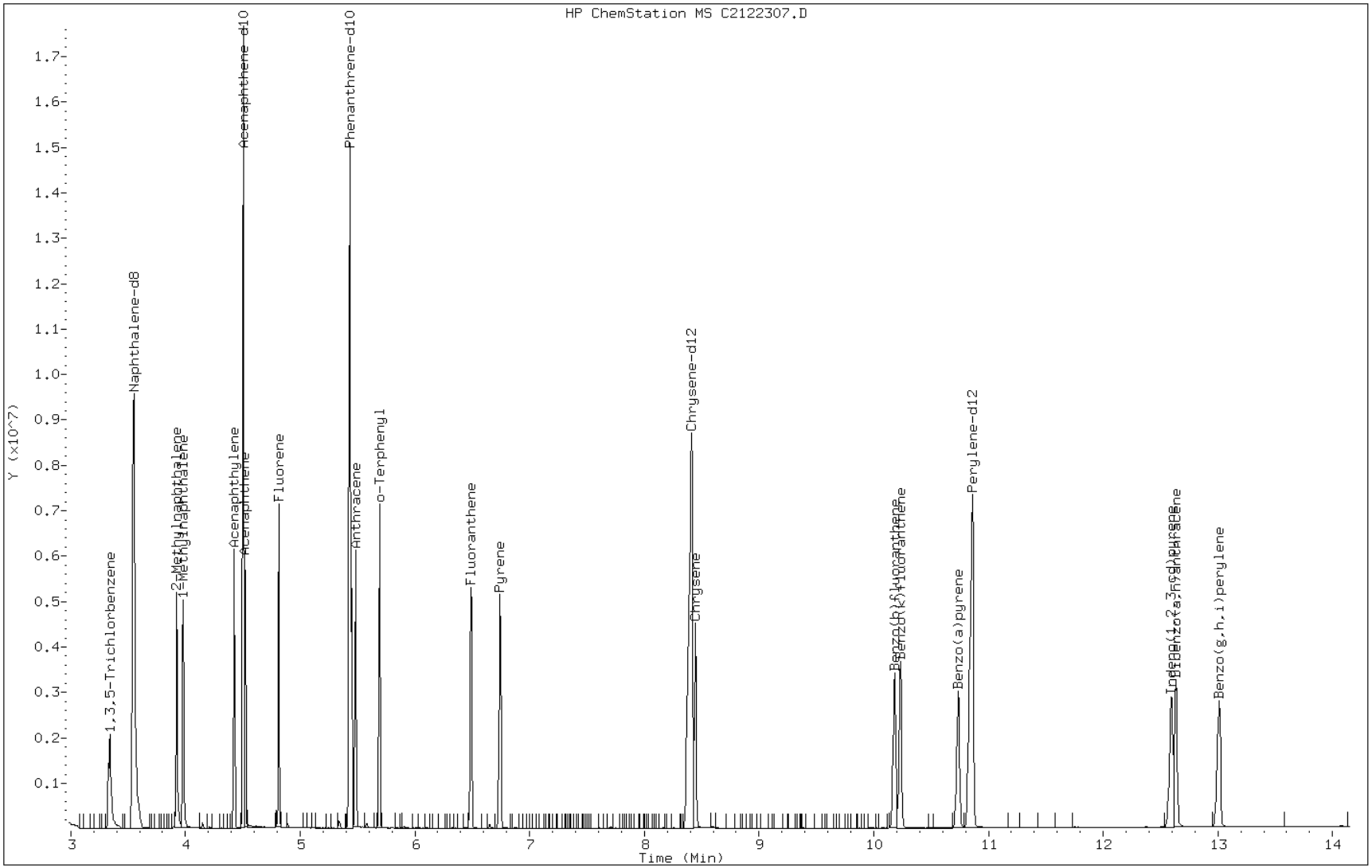
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	765856	12.5000	12	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5796863	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	1782375	12.5000	12	
3 2-Methylnaphthalene	142	3.923	3.923	(1.107)	1339416	12.5000	12	
4 1-Methylnaphthalene	142	3.980	3.980	(1.123)	1308645	12.5000	12	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3131454	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	2035226	12.5000	12	
7 Acenaphthene	154	4.519	4.519	(1.003)	1078765	12.5000	12	
8 Fluorene	166	4.814	4.814	(1.069)	1448977	12.5000	12	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5221227	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	1835194	12.5000	13	
11 Anthracene	178	5.483	5.483	(1.010)	1930188	12.5000	12	
$ 12 o-Terphenyl	230	5.690	5.690	(1.048)	1174253	12.5000	12	
13 Fluoranthene	202	6.488	6.488	(1.195)	2367694	12.5000	12	
* 14 Chrysene-d12	240	8.411	8.411	(1.000)	5151202	40.0000		
15 Pyrene	202	6.742	6.742	(0.802)	2356208	12.5000	12	
16 Benzo(a)anthracene	228	8.379	8.379	(0.996)	2191372	12.5000	12	
17 Chrysene	228	8.447	8.447	(1.004)	1893029	12.5000	12	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	5772440	40.0000		
19 Benzo(b)fluoranthene	252	10.183	10.183	(0.938)	2262495	12.5000	12	
20 Benzo(k)fluoranthene	252	10.235	10.235	(0.942)	2209200	12.5000	12	
21 Benzo(a)pyrene	252	10.737	10.737	(0.989)	2038178	12.5000	12	
22 Indeno(1,2,3-cd)pyrene	276	12.598	12.598	(1.160)	2142172	12.5000	12	
23 Dibenzo(a,h)anthracene	278	12.634	12.634	(1.163)	2035723	12.5000	12	
24 Benzo(g,h,i)perylene	276	13.012	13.012	(1.198)	2128340	12.5000	12	

Data File: C2122307.D

Date: 23-DEC-2012 13:28

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^6_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122308.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 13:47
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^7_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 13:28 Cal File: C2122307.D
Als bottle: 92 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

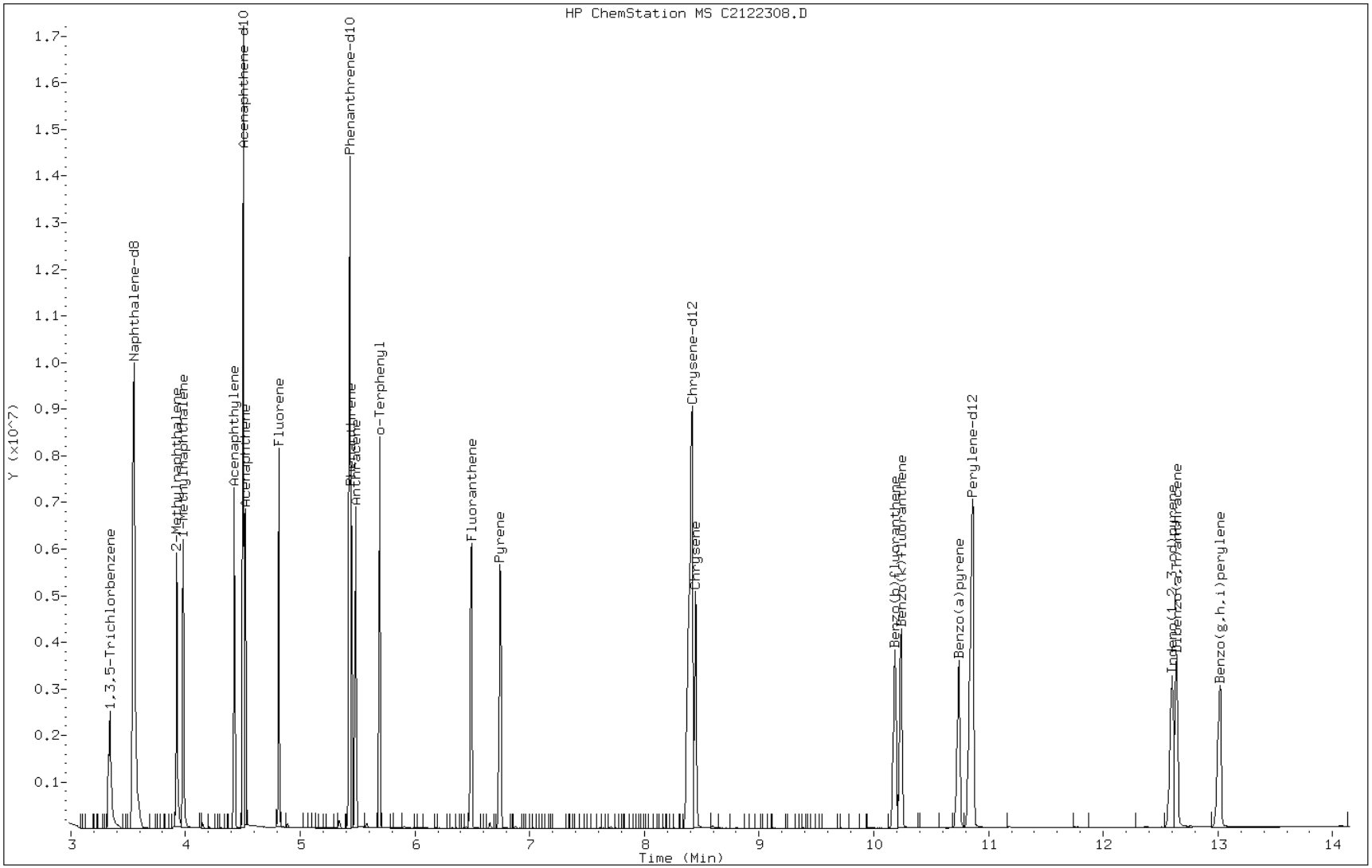
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	929378	15.0000	15	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5678765	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	2110744	15.0000	15	
3 2-Methylnaphthalene	142	3.922	3.922	(1.107)	1585887	15.0000	15	
4 1-Methylnaphthalene	142	3.979	3.979	(1.123)	1544882	15.0000	15	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3042374	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	2407807	15.0000	15	
7 Acenaphthene	154	4.523	4.523	(1.005)	1275613	15.0000	15	
8 Fluorene	166	4.814	4.814	(1.069)	1691333	15.0000	15	
* 9 Phenanthrene-d10	188	5.430	5.430	(1.000)	5216925	40.0000		
10 Phenanthrene	178	5.446	5.446	(1.003)	2165718	15.0000	15	
11 Anthracene	178	5.482	5.482	(1.010)	2292444	15.0000	15	
$ 12 o-Terphenyl	230	5.689	5.689	(1.048)	1380562	15.0000	14	
13 Fluoranthene	202	6.493	6.493	(1.196)	2806901	15.0000	14	
* 14 Chrysene-d12	240	8.415	8.415	(1.000)	5142769	40.0000		
15 Pyrene	202	6.741	6.741	(0.801)	2785567	15.0000	14	
16 Benzo(a)anthracene	228	8.379	8.379	(0.996)	2644448	15.0000	15	
17 Chrysene	228	8.446	8.446	(1.004)	2281690	15.0000	15	
* 18 Perylene-d12	264	10.861	10.861	(1.000)	5738286	40.0000		
19 Benzo(b)fluoranthene	252	10.188	10.188	(0.938)	2721725	15.0000	15	
20 Benzo(k)fluoranthene	252	10.239	10.239	(0.943)	2596770	15.0000	15	
21 Benzo(a)pyrene	252	10.742	10.742	(0.989)	2426740	15.0000	15	
22 Indeno(1,2,3-cd)pyrene	276	12.603	12.603	(1.160)	2559163	15.0000	15	
23 Dibenzo(a,h)anthracene	278	12.639	12.639	(1.164)	2428601	15.0000	15	
24 Benzo(g,h,i)perylene	276	13.017	13.017	(1.198)	2482881	15.0000	15	

Data File: C2122308.D

Date: 23-DEC-2012 13:47

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^7_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122309.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 14:06
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^8_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 13:47 Cal File: C2122308.D
Als bottle: 93 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

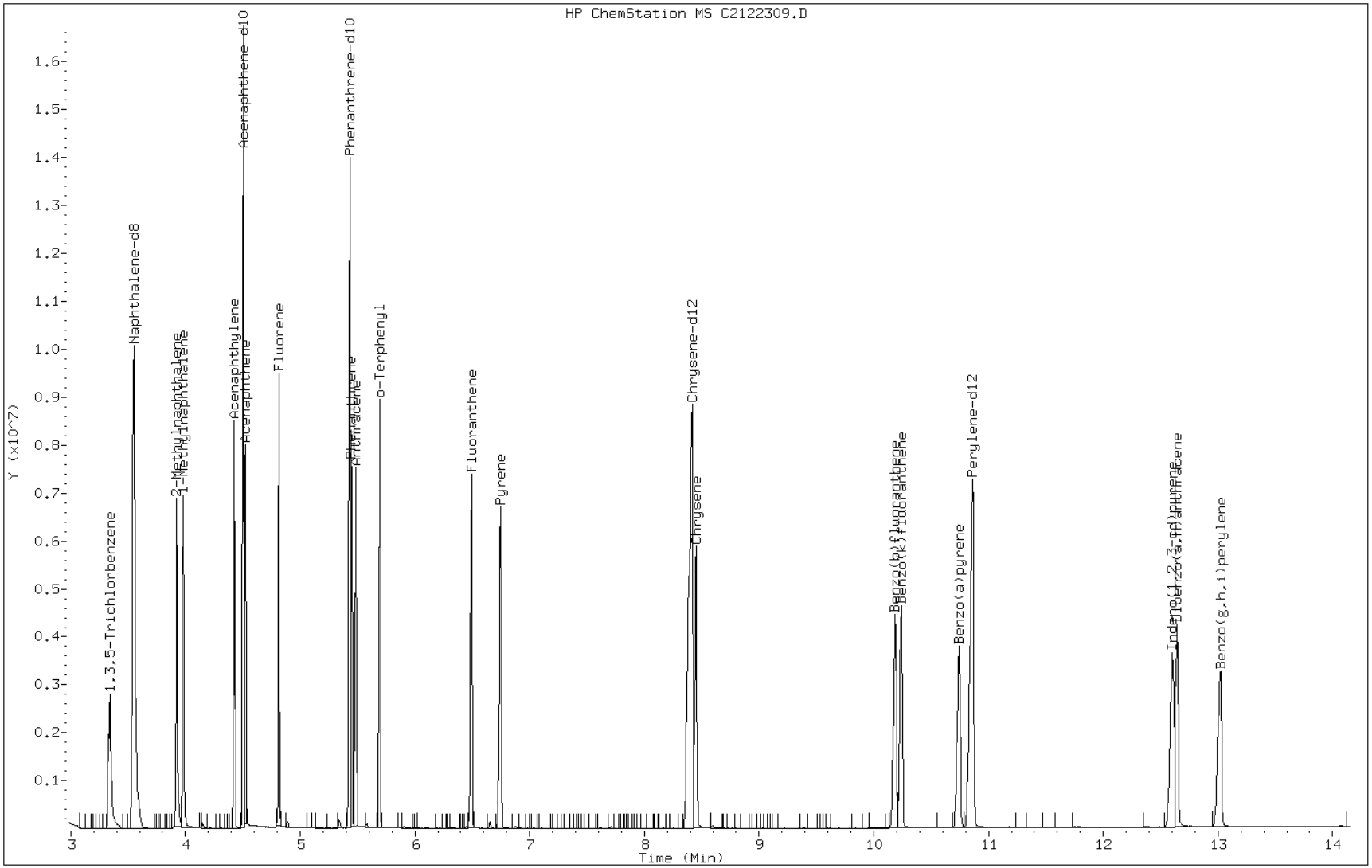
							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)	REVIEW CODE
$	258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	1062085	17.5000	17	
*	1 Naphthalene-d8	136	3.544	3.544	(1.000)	5722257	40.0000		
	2 Naphthalene	128	3.560	3.560	(1.004)	2457950	17.5000	18	
	3 2-Methylnaphthalene	142	3.922	3.922	(1.107)	1825567	17.5000	17	
	4 1-Methylnaphthalene	142	3.979	3.979	(1.123)	1800524	17.5000	17	
*	5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3065320	40.0000		
	6 Acenaphthylene	152	4.425	4.425	(0.983)	2808171	17.5000	17	
	7 Acenaphthene	154	4.523	4.523	(1.005)	1483139	17.5000	17	
	8 Fluorene	166	4.814	4.814	(1.069)	1971158	17.5000	17	
*	9 Phenanthrene-d10	188	5.430	5.430	(1.000)	5197537	40.0000		
	10 Phenanthrene	178	5.451	5.451	(1.004)	2494638	17.5000	17	
	11 Anthracene	178	5.487	5.487	(1.010)	2689264	17.5000	17	
$	12 o-Terphenyl	230	5.695	5.695	(1.049)	1592260	17.5000	17	
	13 Fluoranthene	202	6.493	6.493	(1.196)	3256989	17.5000	17	
*	14 Chrysene-d12	240	8.415	8.415	(1.000)	5088454	40.0000		
	15 Pyrene	202	6.747	6.747	(0.802)	3236788	17.5000	17	
	16 Benzo(a)anthracene	228	8.379	8.379	(0.996)	3053618	17.5000	18	
	17 Chrysene	228	8.452	8.452	(1.004)	2650935	17.5000	18	
*	18 Perylene-d12	264	10.861	10.861	(1.000)	5693957	40.0000		
	19 Benzo(b)fluoranthene	252	10.188	10.188	(0.938)	3094634	17.5000	17	
	20 Benzo(k)fluoranthene	252	10.239	10.239	(0.943)	2973143	17.5000	17	
	21 Benzo(a)pyrene	252	10.742	10.742	(0.989)	2790226	17.5000	17	
	22 Indeno(1,2,3-cd)pyrene	276	12.603	12.603	(1.160)	2976044	17.5000	17	
	23 Dibenzo(a,h)anthracene	278	12.644	12.644	(1.164)	2736041	17.5000	17	
	24 Benzo(g,h,i)perylene	276	13.022	13.022	(1.199)	2808872	17.5000	17	

Data File: C2122309.D

Date: 23-DEC-2012 14:06

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^8_00019~1~8270DLL Operator: MF



TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122310.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 23-DEC-2012 14:25
Operator : MF Inst ID: TSMC5973.i
Smp Info : IC~SMI_PAH^9_00019~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 94 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14

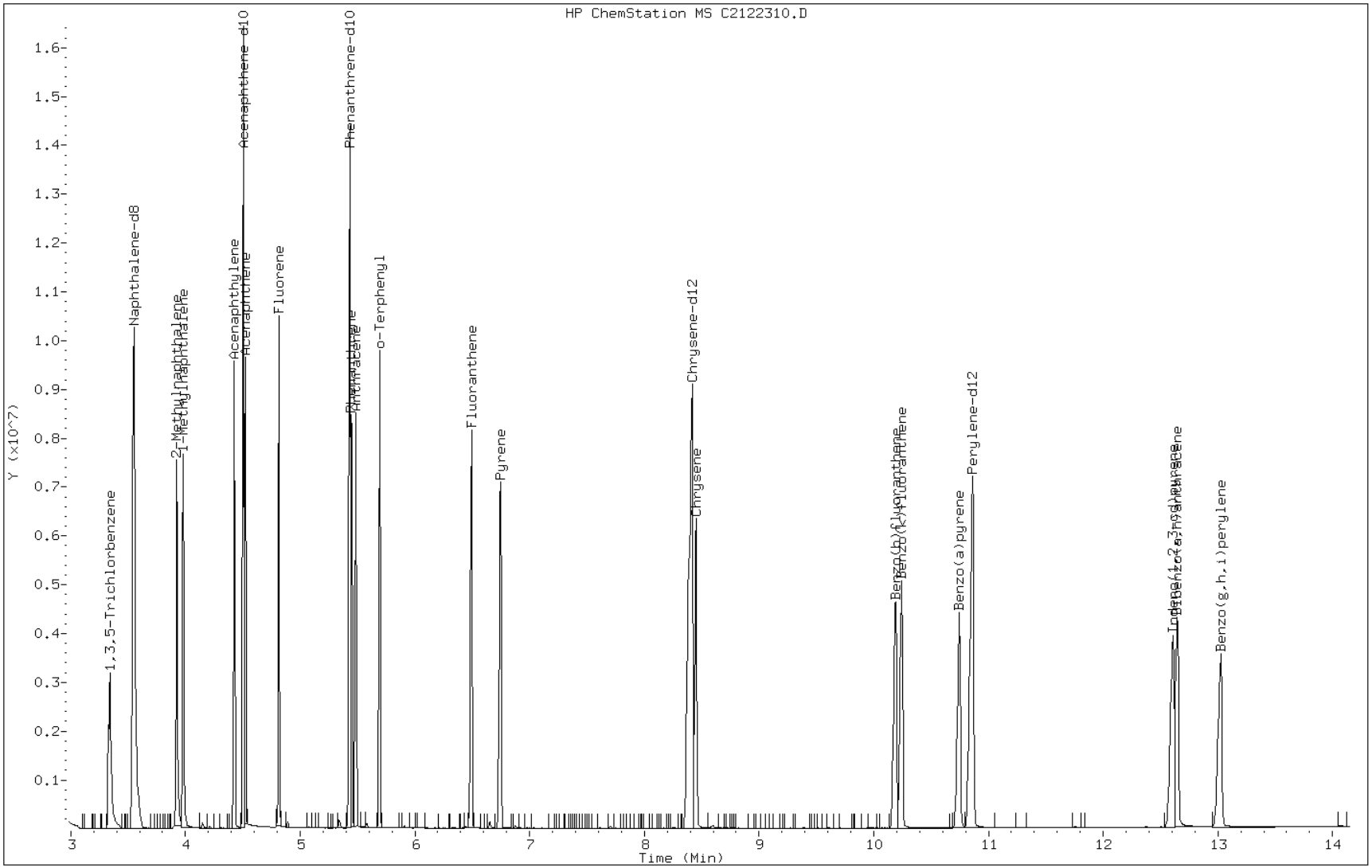
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	1200393	20.0000	20	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5670862	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	2744339	20.0000	20	
3 2-Methylnaphthalene	142	3.923	3.923	(1.107)	2048199	20.0000	19	
4 1-Methylnaphthalene	142	3.980	3.980	(1.123)	1947585	20.0000	19	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3037140	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	3153668	20.0000	19	
7 Acenaphthene	154	4.524	4.524	(1.005)	1632347	20.0000	19	
8 Fluorene	166	4.814	4.814	(1.069)	2203031	20.0000	19	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5202785	40.0000		
10 Phenanthrene	178	5.451	5.451	(1.004)	2809182	20.0000	19	
11 Anthracene	178	5.488	5.488	(1.010)	2964016	20.0000	19	
$ 12 o-Terphenyl	230	5.695	5.695	(1.049)	1796064	20.0000	19	
13 Fluoranthene	202	6.493	6.493	(1.196)	3626641	20.0000	19	
* 14 Chrysene-d12	240	8.416	8.416	(1.000)	5047873	40.0000		
15 Pyrene	202	6.747	6.747	(0.802)	3591486	20.0000	19	
16 Benzo(a)anthracene	228	8.385	8.385	(0.996)	3377980	20.0000	20	
17 Chrysene	228	8.452	8.452	(1.004)	2914880	20.0000	20	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	5650066	40.0000		
19 Benzo(b)fluoranthene	252	10.193	10.193	(0.938)	3401195	20.0000	19	
20 Benzo(k)fluoranthene	252	10.245	10.245	(0.943)	3288338	20.0000	19	
21 Benzo(a)pyrene	252	10.748	10.748	(0.990)	3089924	20.0000	19	
22 Indeno(1,2,3-cd)pyrene	276	12.608	12.608	(1.161)	3236201	20.0000	19	
23 Dibenzo(a,h)anthracene	278	12.644	12.644	(1.164)	3108388	20.0000	19	
24 Benzo(g,h,i)perylene	276	13.028	13.028	(1.199)	3095087	20.0000	18	

Data File: C2122310.D

Date: 23-DEC-2012 14:25

Client ID: IC Instrument: TSMC5973.i

Sample Info: IC~SMI_PAH^9_00019~1~8270DLL Operator: MF



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: ICV 640-98324/11 Calibration Date: 12/26/2012 17:01

Instrument ID: SMA Calib Start Date: 12/26/2012 14:08

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/26/2012 16:42

Lab File ID: A2122616.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.127	1.098	0.7000	9.75	10.0	-2.5	30.0
2-Methylnaphthalene	Ave	0.7120	0.7149	0.4000	10.0	10.0	0.4	30.0
1-Methylnaphthalene	Ave	0.7368	0.6833	0.0010	9.27	10.0	-7.3	30.0
Acenaphthylene	Ave	2.144	2.048	0.9000	9.55	10.0	-4.5	30.0
Acenaphthene	QuaF	1.221	1.183	0.9000	9.68	10.0	-3.2	30.0
Fluorene	Ave	1.505	1.467	0.9000	9.75	10.0	-2.5	30.0
Phenanthrene	QuaF	0.2545	0.2458*	0.7000	9.61	10.0	-3.9	30.0
Anthracene	Ave	1.367	1.326	0.7000	9.70	10.0	-3.0	30.0
Fluoranthene	Ave	1.588	1.516	0.6000	9.55	10.0	-4.5	30.0
Pyrene	Ave	1.363	1.271	0.6000	9.32	10.0	-6.8	30.0
Benzo[a]anthracene	QuaF	0.3527	0.3540*	0.8000	9.82	10.0	-1.8	30.0
Chrysene	Ave	1.240	1.154	0.7000	9.31	10.0	-6.9	30.0
Benzo[b]fluoranthene	Ave	1.234	1.225	0.7000	9.93	10.0	-0.7	30.0
Benzo[k]fluoranthene	Ave	1.260	1.254	0.7000	9.95	10.0	-0.5	30.0
Benzo[a]pyrene	Ave	1.115	1.183	0.7000	10.6	10.0	6.2	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.123	1.103	0.5000	9.82	10.0	-1.8	30.0
Dibenz(a,h)anthracene	Ave	1.138	0.8833	0.4000	7.76	10.0	-22.4	30.0
Benzo[g,h,i]perylene	Ave	1.113	1.028	0.5000	9.24	10.0	-7.6	30.0
o-Terphenyl (Surr)	Ave	0.8453	0.9052	0.0010	4.28	4.00	7.1	30.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122616.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 26-DEC-2012 17:01
Operator : VW Inst ID: TSMA5973.i
Smp Info : ICV~SMI_PAHICV_00009~1~8270D/625
Misc Info : 1A121226
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 18:08 TSMA5973.i Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 10 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

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)	REVIEW CODE
* 1 Naphthalene-d8	136	3.710	3.712	(1.000)	1486197	40.0000		
2 Naphthalene	128	3.721	3.722	(1.003)	407941	9.74533	9.7	
3 2-Methylnaphthalene	142	4.079	4.081	(1.099)	265617	10.0405	10	
4 1-Methylnaphthalene	142	4.136	4.137	(1.115)	253861	9.27281	9.3	
* 5 Acenaphthene-d10	164	4.663	4.665	(1.000)	774780	40.0000		
6 Acenaphthylene	152	4.587	4.583	(0.984)	396713	9.55419	9.6	
7 Acenaphthene	153	4.684	4.686	(1.004)	229196	9.67632	9.7	
8 Fluorene	166	4.986	4.988	(1.069)	284155	9.74663	9.7	
* 9 Phenanthrene-d10	188	5.637	5.633	(1.000)	1211421	40.0000		
10 Phenanthrene	176	5.652	5.654	(1.003)	74445	9.60841	9.6	
11 Anthracene	178	5.688	5.695	(1.009)	401463	9.69881	9.7	
$ 12 o-Terphenyl	230	5.908	5.910	(1.048)	109657	4.28319	4.3	
13 Fluoranthene	202	6.744	6.750	(1.196)	459082	9.54577	9.5	
* 14 Chrysene-d12	240	8.742	8.743	(1.000)	1414430	40.0000		
15 Pyrene	202	7.010	7.017	(0.802)	449338	9.32100	9.3	
16 Benzo(a)anthracene	226	8.706	8.708	(0.996)	125187	9.81538	9.8	
17 Chrysene	228	8.778	8.784	(1.004)	407999	9.30721	9.3	

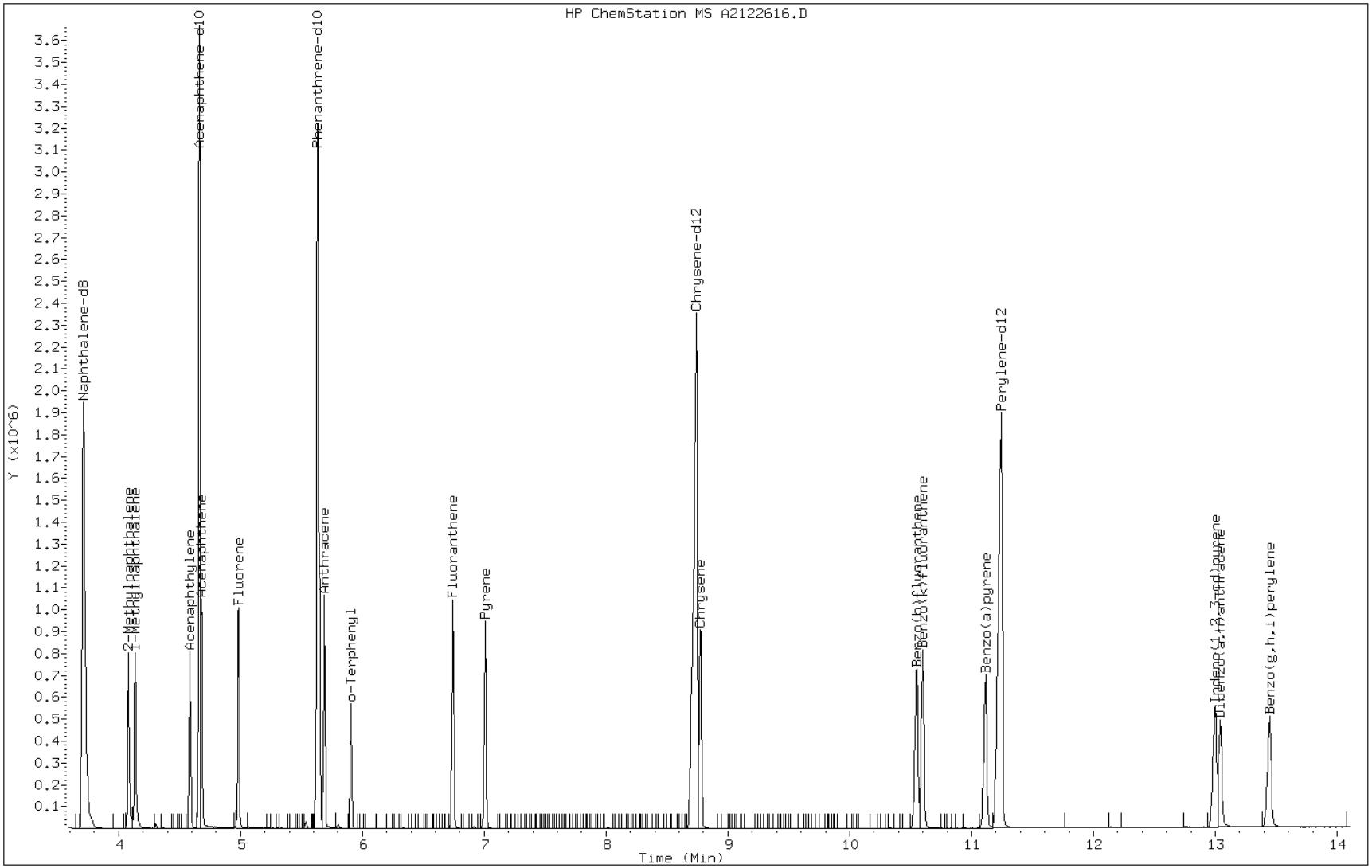
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)	REVIEW CODE
* 18 Perylene-d12	264	11.247	11.249	(1.000)	1602667	40.0000		
19 Benzo(b)fluoranthene	252	10.550	10.562	(0.938)	490727	9.92890	9.9	
20 Benzo(k)fluoranthene	252	10.602	10.619	(0.943)	502299	9.95094	10	
21 Benzo(a)pyrene	252	11.114	11.126	(0.988)	474121	10.6169	11	
22 Indeno(1,2,3-cd)pyrene	276	12.999	13.022	(1.156)	442128	9.82392	9.8	
23 Dibenzo(a,h)anthracene	278	13.040	13.063	(1.159)	353904	7.76184	7.8	
24 Benzo(g,h,i)perylene	276	13.445	13.472	(1.195)	411845	9.23703	9.2	

Data File: A2122616.D

Date: 26-DEC-2012 17:01

Client ID: ICV Instrument: TSMA5973.i

Sample Info: ICV~SMI_PAHICV_00009~1~8270D/625 Operator: VW



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: CCVIS 640-98325/2 Calibration Date: 12/26/2012 18:11

Instrument ID: SMA Calib Start Date: 12/26/2012 14:08

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/26/2012 16:42

Lab File ID: A2122618.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.127	1.120	0.7000	9.94	10.0	-0.6	20.0
2-Methylnaphthalene	Ave	0.7120	0.7121	0.4000	10.0	10.0	0.0	20.0
1-Methylnaphthalene	Ave	0.7368	0.7326	0.0010	9.94	10.0	-0.6	20.0
Acenaphthylene	Ave	2.144	2.115	0.9000	9.86	10.0	-1.4	20.0
Acenaphthene	QuaF	1.221	1.228	0.9000	10.1	10.0	0.7	20.0
Fluorene	Ave	1.505	1.511	0.9000	10.0	10.0	0.4	20.0
Phenanthrene	QuaF	0.2545	0.2666*	0.7000	10.4	10.0	4.5	20.0
Anthracene	Ave	1.367	1.371	0.7000	10.0	10.0	0.3	20.0
Fluoranthene	Ave	1.588	1.558	0.6000	9.81	10.0	-1.9	20.0
Pyrene	Ave	1.363	1.336	0.6000	9.80	10.0	-2.0	20.0
Benzo[a]anthracene	QuaF	0.3527	0.3651*	0.8000	10.1	10.0	1.3	20.0
Chrysene	Ave	1.240	1.246	0.7000	10.1	10.0	0.5	20.0
Benzo[b]fluoranthene	Ave	1.234	1.257	0.7000	10.2	10.0	1.9	20.0
Benzo[k]fluoranthene	Ave	1.260	1.276	0.7000	10.1	10.0	1.3	20.0
Benzo[a]pyrene	Ave	1.115	1.122	0.7000	10.1	10.0	0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.123	1.131	0.5000	10.1	10.0	0.7	20.0
Dibenz(a,h)anthracene	Ave	1.138	1.175	0.4000	10.3	10.0	3.2	20.0
Benzo[g,h,i]perylene	Ave	1.113	1.118	0.5000	10.0	10.0	0.5	20.0
o-Terphenyl (Surr)	Ave	0.8453	0.8505	0.0010	10.1	10.0	0.6	20.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122618.D
Lab Smp Id: CCV
Inj Date : 26-DEC-2012 18:11
Operator : VW Inst ID: TSMA5973.i
Smp Info : IC~SMI_PAH^5_00019~1~8270D/625
Misc Info : 2A121226
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 05:51 vwelch Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

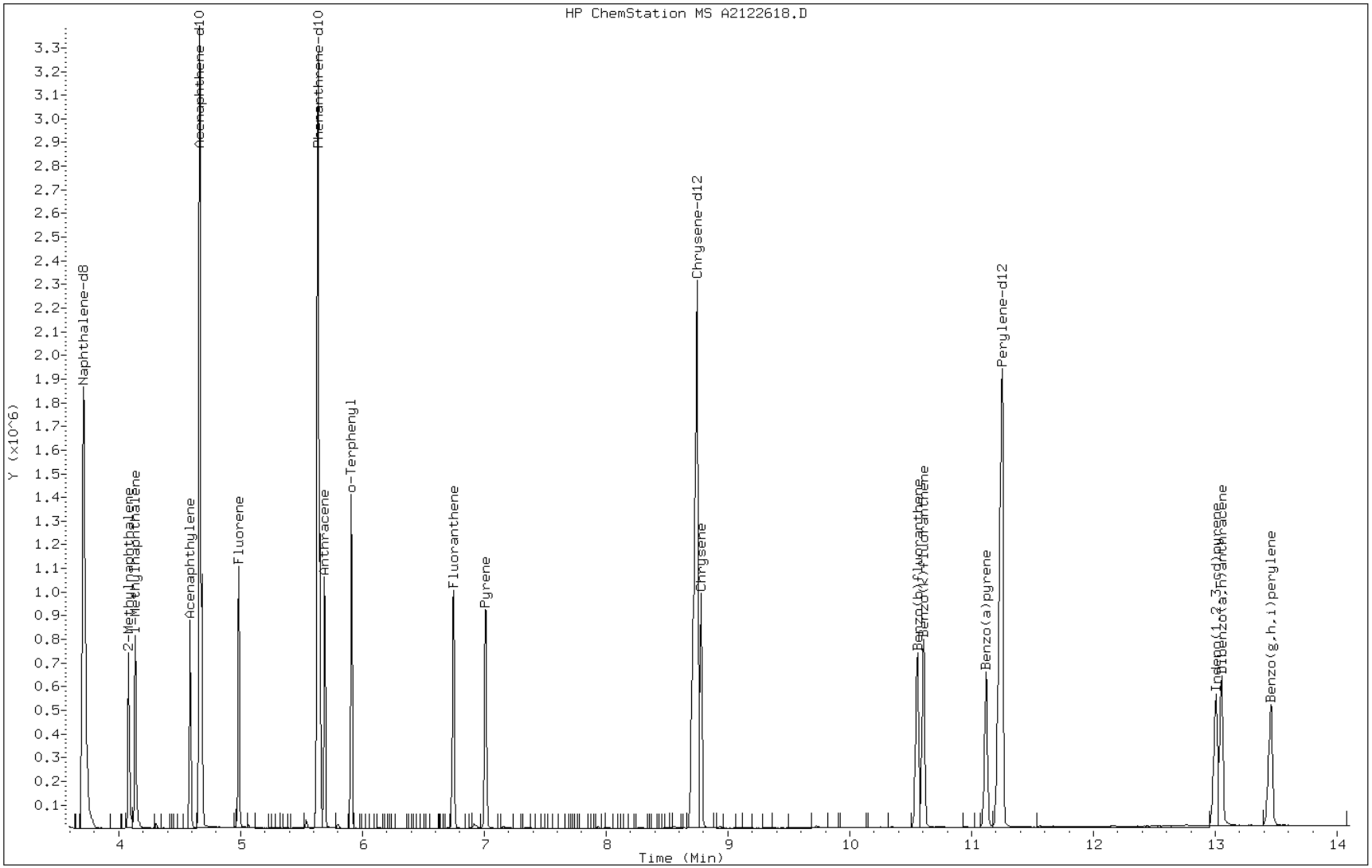
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 1 Naphthalene-d8	136	3.711	3.711	(1.000)	1468146	40.0000		
2 Naphthalene	128	3.721	3.721	(1.003)	411226	10.0000	9.9	
3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	261350	10.0000	10	
4 1-Methylnaphthalene	142	4.136	4.136	(1.115)	268874	10.0000	9.9	
* 5 Acenaphthene-d10	164	4.663	4.663	(1.000)	757655	40.0000		
6 Acenaphthylene	152	4.587	4.587	(0.984)	400538	10.0000	9.9	
7 Acenaphthene	153	4.684	4.684	(1.004)	232535	10.0000	10	
8 Fluorene	166	4.986	4.986	(1.069)	286234	10.0000	10	
* 9 Phenanthrene-d10	188	5.637	5.637	(1.000)	1180956	40.0000		
10 Phenanthrene	176	5.652	5.652	(1.003)	78719	10.0000	10	
11 Anthracene	178	5.688	5.688	(1.009)	404659	10.0000	10	
$ 12 o-Terphenyl	230	5.909	5.909	(1.048)	251110	10.0000	10	
13 Fluoranthene	202	6.749	6.749	(1.197)	460031	10.0000	9.8	
* 14 Chrysene-d12	240	8.747	8.747	(1.000)	1376177	40.0000		
15 Pyrene	202	7.015	7.015	(0.802)	459761	10.0000	9.8	
16 Benzo(a)anthracene	226	8.711	8.711	(0.996)	125616	10.0000	10	
17 Chrysene	228	8.783	8.783	(1.004)	428809	10.0000	10	
* 18 Perylene-d12	264	11.252	11.252	(1.000)	1572595	40.0000		
19 Benzo(b)fluoranthene	252	10.555	10.555	(0.938)	494333	10.0000	10	
20 Benzo(k)fluoranthene	252	10.607	10.607	(0.943)	501659	10.0000	10	
21 Benzo(a)pyrene	252	11.119	11.119	(0.988)	441265	10.0000	10	
22 Indeno(1,2,3-cd)pyrene	276	13.010	13.010	(1.156)	444792	10.0000	10	
23 Dibenzo(a,h)anthracene	278	13.051	13.051	(1.160)	461888	10.0000	10	
24 Benzo(g,h,i)perylene	276	13.460	13.460	(1.196)	439680	10.0000	10	

Data File: A2122618.D

Date: 26-DEC-2012 18:11

Client ID: Instrument: TSMA5973.i

Sample Info: IC~SMI_PAH^5_00019~1~8270D/625 Operator: VW



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: CCVIS 640-98315/2 Calibration Date: 12/27/2012 08:30

Instrument ID: SMA Calib Start Date: 12/26/2012 14:08

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/26/2012 16:42

Lab File ID: A2122704.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.127	1.114	0.7000	9.89	10.0	-1.1	20.0
2-Methylnaphthalene	Ave	0.7120	0.7125	0.4000	10.0	10.0	0.0	20.0
1-Methylnaphthalene	Ave	0.7368	0.7279	0.0010	9.88	10.0	-1.2	20.0
Acenaphthylene	Ave	2.144	2.172	0.9000	10.1	10.0	1.3	20.0
Acenaphthene	QuaF	1.221	1.264	0.9000	10.4	10.0	3.9	20.0
Fluorene	Ave	1.505	1.532	0.9000	10.2	10.0	1.8	20.0
Phenanthrene	QuaF	0.2545	0.2625*	0.7000	10.3	10.0	2.8	20.0
Anthracene	Ave	1.367	1.393	0.7000	10.2	10.0	1.9	20.0
Fluoranthene	Ave	1.588	1.566	0.6000	9.86	10.0	-1.4	20.0
Pyrene	Ave	1.363	1.337	0.6000	9.81	10.0	-1.9	20.0
Benzo[a]anthracene	QuaF	0.3527	0.3651*	0.8000	10.1	10.0	1.3	20.0
Chrysene	Ave	1.240	1.272	0.7000	10.3	10.0	2.6	20.0
Benzo[b]fluoranthene	Ave	1.234	1.235	0.7000	10.0	10.0	0.0	20.0
Benzo[k]fluoranthene	Ave	1.260	1.249	0.7000	9.92	10.0	-0.8	20.0
Benzo[a]pyrene	Ave	1.115	1.122	0.7000	10.1	10.0	0.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.123	1.135	0.5000	10.1	10.0	1.0	20.0
Dibenz(a,h)anthracene	Ave	1.138	1.161	0.4000	10.2	10.0	2.1	20.0
Benzo[g,h,i]perylene	Ave	1.113	1.107	0.5000	9.95	10.0	-0.5	20.0
o-Terphenyl (Surr)	Ave	0.8453	0.8418	0.0010	9.96	10.0	-0.4	20.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122704.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-DEC-2012 08:30
Operator : VW Inst ID: TSMA5973.i
Smp Info : CCV~SMI_PAH^5_00019~1~8270D/625
Misc Info : 1A121227
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:51 vwelch Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

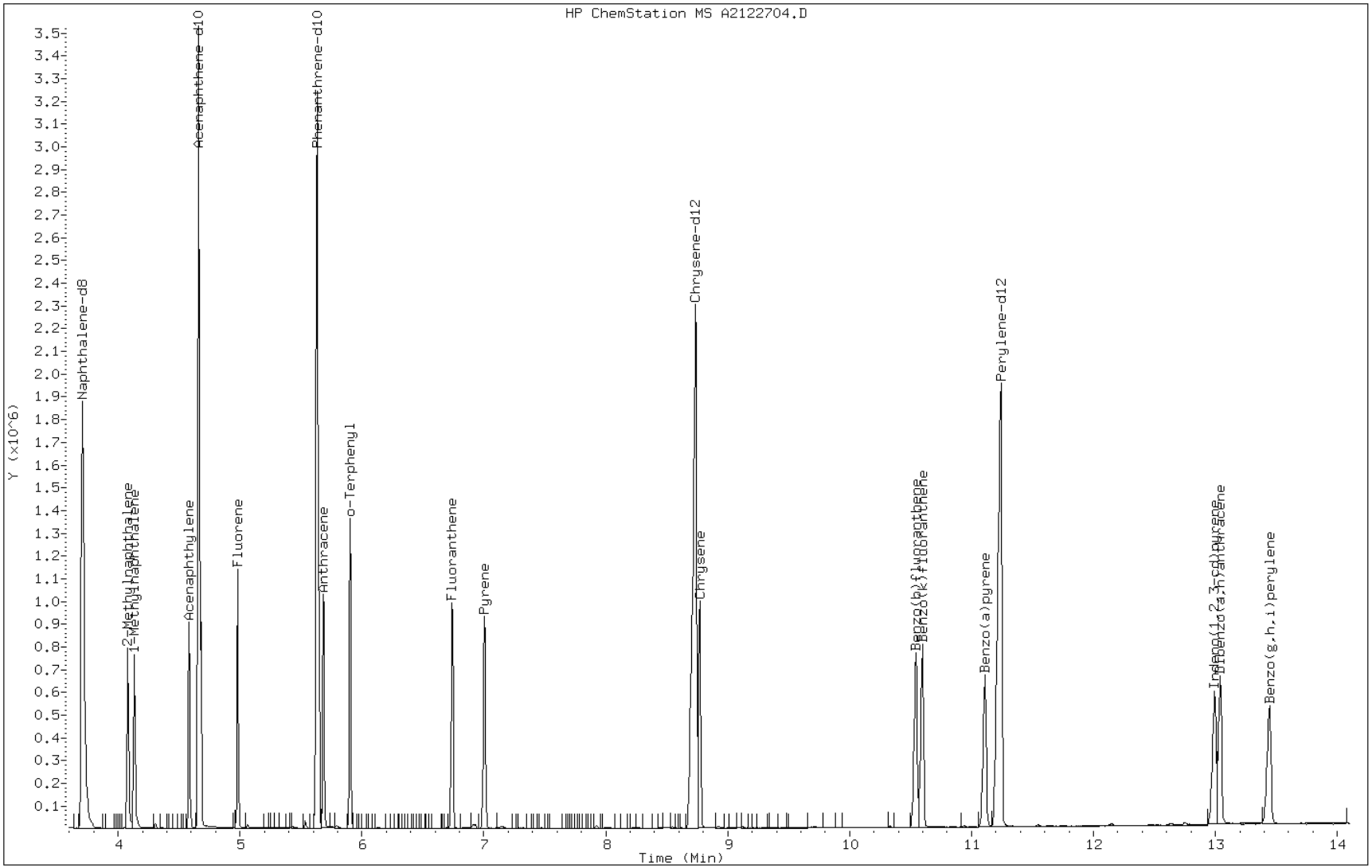
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 1 Naphthalene-d8	136	3.705	3.705	(1.000)	1468210	40.0000		
2 Naphthalene	128	3.720	3.720	(1.004)	408817	10.0000	9.9	
3 2-Methylnaphthalene	142	4.079	4.079	(1.101)	261527	10.0000	10	
4 1-Methylnaphthalene	142	4.135	4.135	(1.116)	267161	10.0000	9.9	
* 5 Acenaphthene-d10	164	4.663	4.663	(1.000)	747530	40.0000		
6 Acenaphthylene	152	4.581	4.581	(0.982)	405973	10.0000	10	
7 Acenaphthene	153	4.678	4.678	(1.003)	236283	10.0000	10	
8 Fluorene	166	4.980	4.980	(1.068)	286262	10.0000	10	
* 9 Phenanthrene-d10	188	5.631	5.631	(1.000)	1181960	40.0000		
10 Phenanthrene	176	5.646	5.646	(1.003)	77572	10.0000	10	
11 Anthracene	178	5.687	5.687	(1.010)	411611	10.0000	10	
$ 12 o-Terphenyl	230	5.903	5.903	(1.048)	248755	10.0000	10	
13 Fluoranthene	202	6.743	6.743	(1.197)	462796	10.0000	9.9	
* 14 Chrysene-d12	240	8.736	8.736	(1.000)	1370347	40.0000		
15 Pyrene	202	7.004	7.004	(0.802)	458184	10.0000	9.8	
16 Benzo(a)anthracene	226	8.700	8.700	(0.996)	125072	10.0000	10	
17 Chrysene	228	8.772	8.772	(1.004)	435616	10.0000	10	
* 18 Perylene-d12	264	11.241	11.241	(1.000)	1605849	40.0000		
19 Benzo(b)fluoranthene	252	10.544	10.544	(0.938)	495616	10.0000	10	
20 Benzo(k)fluoranthene	252	10.596	10.596	(0.943)	501491	10.0000	9.9	
21 Benzo(a)pyrene	252	11.113	11.113	(0.989)	450547	10.0000	10	
22 Indeno(1,2,3-cd)pyrene	276	12.993	12.993	(1.156)	455629	10.0000	10	
23 Dibenzo(a,h)anthracene	278	13.039	13.039	(1.160)	466235	10.0000	10	
24 Benzo(g,h,i)perylene	276	13.444	13.444	(1.196)	444546	10.0000	10	

Data File: A2122704.D

Date: 27-DEC-2012 08:30

Client ID: CCV Instrument: TSMA5973.i

Sample Info: CCV~SMI_PAH^5_00019~1~8270D/625 Operator: VW



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: ICV 640-98254/11 Calibration Date: 12/23/2012 14:44

Instrument ID: SMC Calib Start Date: 12/23/2012 11:54

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/23/2012 14:25

Lab File ID: C2122311.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9775	0.9602	0.7000	9.82	10.0	-1.8	30.0
2-Methylnaphthalene	Ave	0.7418	0.7475	0.4000	10.1	10.0	0.8	30.0
1-Methylnaphthalene	Ave	0.7277	0.6877	0.0010	9.45	10.0	-5.5	30.0
Acenaphthylene	Ave	2.149	2.103	0.9000	9.78	10.0	-2.2	30.0
Acenaphthene	Ave	1.125	1.093	0.9000	9.72	10.0	-2.8	30.0
Fluorene	Ave	1.501	1.472	0.9000	9.80	10.0	-2.0	30.0
Phenanthrene	Lin1	1.152	1.114	0.7000	10.0	10.0	0.2	30.0
Anthracene	Lin2	1.215	1.193	0.7000	9.95	10.0	-0.5	30.0
Fluoranthene	Ave	1.492	1.456	0.6000	9.76	10.0	-2.4	30.0
Pyrene	Ave	1.499	1.439	0.6000	9.60	10.0	-4.0	30.0
Benzo[a]anthracene	Lin1	1.433	1.383	0.8000	10.1	10.0	1.3	30.0
Chrysene	Lin1	1.205	1.121	0.7000	9.48	10.0	-5.2	30.0
Benzo[b]fluoranthene	Ave	1.274	1.274	0.7000	10.0	10.0	-0.0	30.0
Benzo[k]fluoranthene	Lin2	1.251	1.205	0.7000	9.76	10.0	-2.4	30.0
Benzo[a]pyrene	Lin1	1.158	1.214	0.7000	10.8	10.0	7.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.208	1.182	0.5000	9.79	10.0	-2.1	30.0
Dibenz(a,h)anthracene	Lin2	1.176	0.8851	0.4000	7.66	10.0	-23.4	30.0
Benzo[g,h,i]perylene	Lin2	1.209	1.100	0.5000	9.30	10.0	-7.0	30.0
1,3,5-Trichlorobenzene	Ave	0.4304	0.4288		3.98	4.00	-0.4	
o-Terphenyl (Surr)	Lin2	0.7410	0.7777	0.0010	4.27	4.00	6.7	30.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122311.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 23-DEC-2012 14:44
Operator : MF Inst ID: TSMC5973.i
Smp Info : ICV~SMI_PAHICVINT_00009~1~8270DLL
Misc Info : 1C121223
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-8270DpahISTD-m.m
Meth Date : 24-Dec-2012 08:57 TSMC5973.i Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 95 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.342	3.342	(0.943)	248043	3.98500	4.0	
* 1 Naphthalene-d8	136	3.544	3.544	(1.000)	5784657	40.0000		
2 Naphthalene	128	3.560	3.560	(1.004)	1388569	9.82253	9.8	
3 2-Methylnaphthalene	142	3.923	3.923	(1.107)	1081007	10.0763	10	
4 1-Methylnaphthalene	142	3.980	3.980	(1.123)	994501	9.45033	9.4	
* 5 Acenaphthene-d10	164	4.503	4.503	(1.000)	3098160	40.0000		
6 Acenaphthylene	152	4.425	4.425	(0.983)	1628784	9.78372	9.8	
7 Acenaphthene	154	4.519	4.524	(1.003)	846298	9.71650	9.7	
8 Fluorene	166	4.814	4.814	(1.069)	1139857	9.80328	9.8	
* 9 Phenanthrene-d10	188	5.431	5.431	(1.000)	5158985	40.0000		
10 Phenanthrene	178	5.446	5.451	(1.003)	1436997	10.0225	10	
11 Anthracene	178	5.483	5.488	(1.010)	1538977	9.95232	10	
$ 12 o-Terphenyl	230	5.690	5.695	(1.048)	401224	4.26936	4.3	
13 Fluoranthene	202	6.488	6.493	(1.195)	1877489	9.75778	9.8	
* 14 Chrysene-d12	240	8.410	8.416	(1.000)	5146557	40.0000		
15 Pyrene	202	6.742	6.747	(0.802)	1851476	9.60245	9.6	
16 Benzo(a)anthracene	228	8.374	8.385	(0.996)	1779663	10.1325	10	

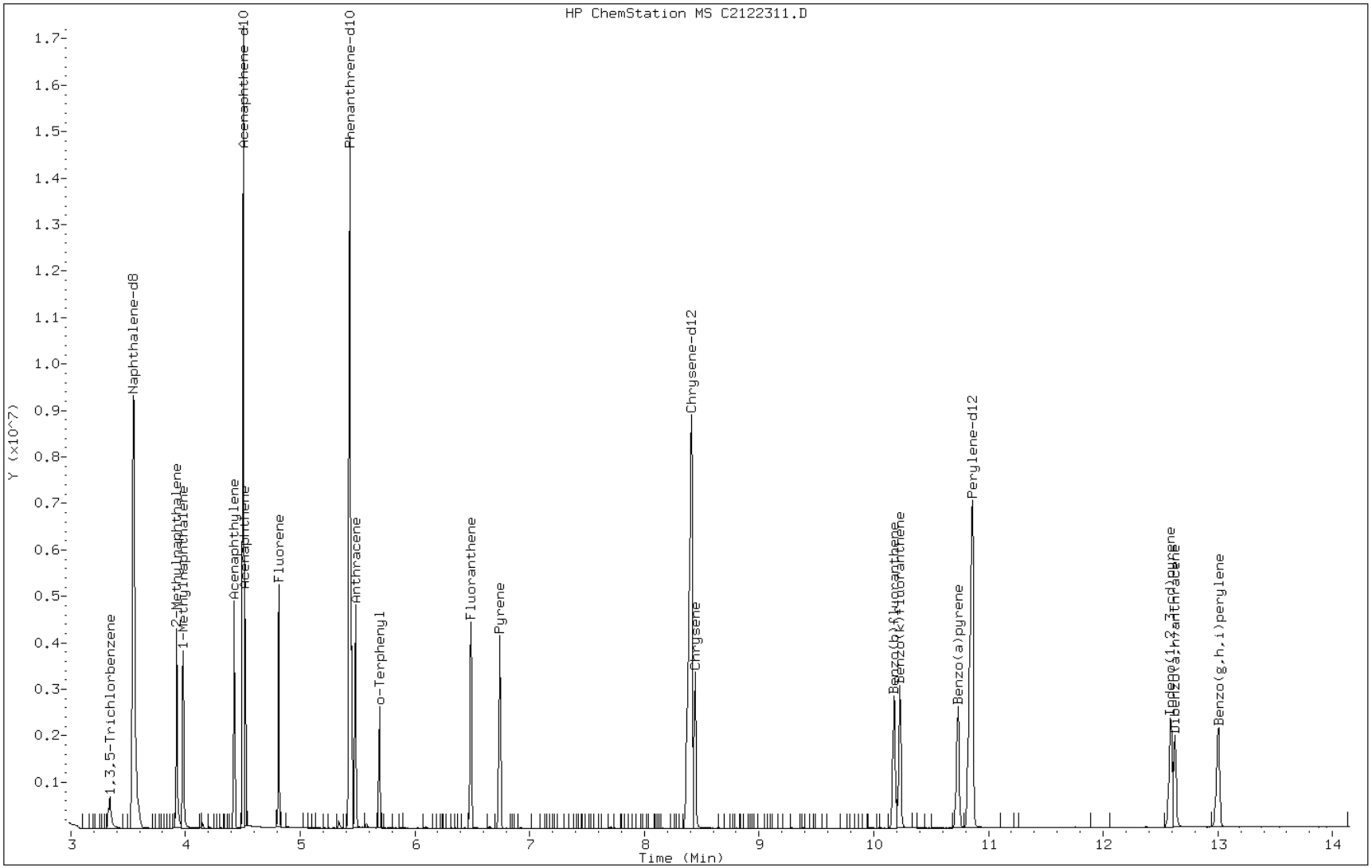
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)	REVIEW CODE
17 Chrysene	228	8.442	8.452	(1.004)	1442780	9.47723	9.5	
* 18 Perylene-d12	264	10.862	10.862	(1.000)	5671964	40.0000		
19 Benzo(b)fluoranthene	252	10.178	10.193	(0.937)	1806265	9.99665	10	
20 Benzo(k)fluoranthene	252	10.229	10.245	(0.942)	1709253	9.76447	9.8	
21 Benzo(a)pyrene	252	10.737	10.748	(0.989)	1721988	10.7610	11	
22 Indeno(1,2,3-cd)pyrene	276	12.593	12.608	(1.159)	1676358	9.78623	9.8	
23 Dibenzo(a,h)anthracene	278	12.629	12.644	(1.163)	1255022	7.66336	7.7	
24 Benzo(g,h,i)perylene	276	13.007	13.028	(1.198)	1559567	9.29530	9.3	

Data File: C2122311.D

Date: 23-DEC-2012 14:44

Client ID: ICV Instrument: TSMC5973.i

Sample Info: ICV~SMI_PAHICVINT_00009~1~8270DLL Operator: MF



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: CCVIS 640-98286/2 Calibration Date: 12/26/2012 13:52

Instrument ID: SMC Calib Start Date: 12/23/2012 11:54

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/23/2012 14:25

Lab File ID: C2122604.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9775	0.9873	0.7000	10.1	10.0	1.0	20.0
2-Methylnaphthalene	Ave	0.7418	0.7644	0.4000	10.3	10.0	3.0	20.0
1-Methylnaphthalene	Ave	0.7277	0.7549	0.0010	10.4	10.0	3.7	20.0
Acenaphthylene	Ave	2.149	2.179	0.9000	10.1	10.0	1.4	20.0
Acenaphthene	Ave	1.125	1.144	0.9000	10.2	10.0	1.7	20.0
Fluorene	Ave	1.501	1.518	0.9000	10.1	10.0	1.1	20.0
Phenanthrene	Lin1	1.152	1.170	0.7000	10.5	10.0	5.3	20.0
Anthracene	Lin2	1.215	1.280	0.7000	10.7	10.0	6.7	20.0
Fluoranthene	Ave	1.492	1.505	0.6000	10.1	10.0	0.9	20.0
Pyrene	Ave	1.499	1.493	0.6000	9.96	10.0	-0.4	20.0
Benzo[a]anthracene	Lin1	1.433	1.307	0.8000	9.57	10.0	-4.3	20.0
Chrysene	Lin1	1.205	1.238	0.7000	10.5	10.0	4.6	20.0
Benzo[b]fluoranthene	Ave	1.274	1.231	0.7000	9.66	10.0	-3.4	20.0
Benzo[k]fluoranthene	Lin2	1.251	1.199	0.7000	9.72	10.0	-2.8	20.0
Benzo[a]pyrene	Lin1	1.158	1.077	0.7000	9.54	10.0	-4.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.208	1.217	0.5000	10.1	10.0	0.8	20.0
Dibenz(a,h)anthracene	Lin2	1.176	1.213	0.4000	10.5	10.0	5.1	20.0
Benzo[g,h,i]perylene	Lin2	1.209	1.211	0.5000	10.2	10.0	2.4	20.0
1,3,5-Trichlorobenzene	Ave	0.4304	0.4249		9.87	10.0	-1.3	
o-Terphenyl (Surr)	Lin2	0.7410	0.7526	0.0010	10.4	10.0	3.5	20.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122604.D
Lab Smp Id: CCVIS Client Smp ID: CCVIS
Inj Date : 26-DEC-2012 13:52
Operator : VW Inst ID: TSMC5973.i
Smp Info : CCVIS~SMI_PAH^5_00019~1~8270DLL
Misc Info : 1C121226
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALSM03

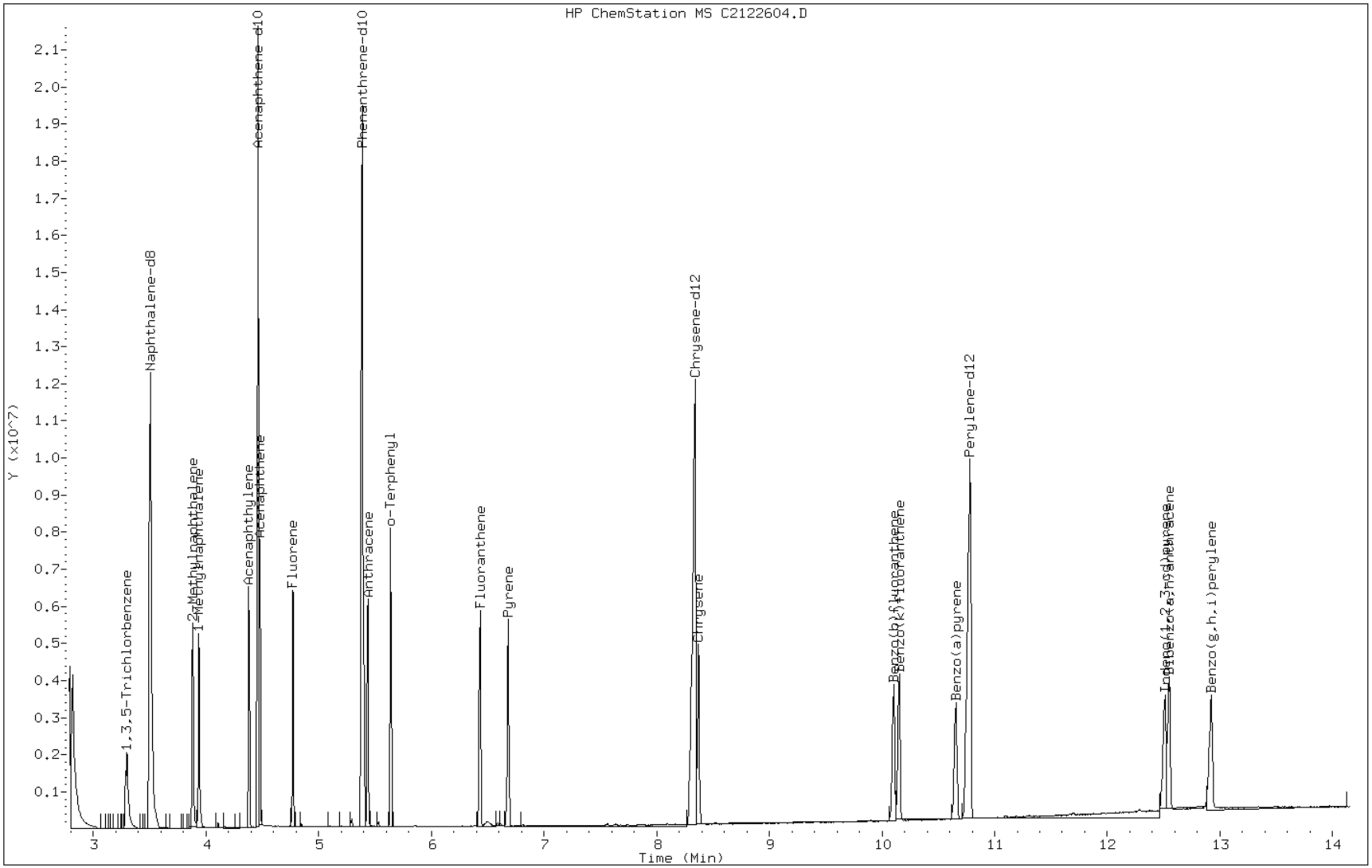
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.303	3.303	(0.942)	778669	10.0000	9.9	
* 1 Naphthalene-d8	136	3.505	3.505	(1.000)	7331200	40.0000		
2 Naphthalene	128	3.515	3.515	(1.003)	1809462	10.0000	10	
3 2-Methylnaphthalene	142	3.883	3.883	(1.108)	1400945	10.0000	10	
4 1-Methylnaphthalene	142	3.935	3.935	(1.123)	1383496	10.0000	10	
* 5 Acenaphthene-d10	164	4.464	4.464	(1.000)	4026839	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.981)	2193947	10.0000	10	
7 Acenaphthene	154	4.479	4.479	(1.003)	1151215	10.0000	10	
8 Fluorene	166	4.774	4.774	(1.070)	1528402	10.0000	10	
* 9 Phenanthrene-d10	188	5.386	5.386	(1.000)	6710390	40.0000		
10 Phenanthrene	178	5.401	5.401	(1.003)	1963273	10.0000	10	
11 Anthracene	178	5.438	5.438	(1.010)	2146663	10.0000	11	
$ 12 o-Terphenyl	230	5.640	5.640	(1.047)	1262571	10.0000	10	
13 Fluoranthene	202	6.433	6.433	(1.194)	2525446	10.0000	10	
* 14 Chrysene-d12	240	8.340	8.340	(1.000)	6775149	40.0000		
15 Pyrene	202	6.682	6.682	(0.801)	2528551	10.0000	10	
16 Benzo(a)anthracene	228	8.309	8.309	(0.996)	2213305	10.0000	9.6	
17 Chrysene	228	8.371	8.371	(1.004)	2096780	10.0000	10	
* 18 Perylene-d12	264	10.781	10.781	(1.000)	7556302	40.0000		
19 Benzo(b)fluoranthene	252	10.102	10.102	(0.937)	2325562	10.0000	9.7	
20 Benzo(k)fluoranthene	252	10.154	10.154	(0.942)	2265709	10.0000	9.7	
21 Benzo(a)pyrene	252	10.656	10.656	(0.988)	2034810	10.0000	9.5	
22 Indeno(1,2,3-cd)pyrene	276	12.512	12.512	(1.161)	2299851	10.0000	10	
23 Dibenzo(a,h)anthracene	278	12.548	12.548	(1.164)	2290675	10.0000	10	
24 Benzo(g,h,i)perylene	276	12.921	12.921	(1.199)	2287525	10.0000	10	

Data File: C2122604.D

Date: 26-DEC-2012 13:52

Client ID: CCVIS Instrument: TSMC5973.i

Sample Info: CCVIS~SMI_PAH^5_00019~1~8270DLL Operator: VW



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Lab Sample ID: CCVIS 640-98300/2 Calibration Date: 12/27/2012 08:25

Instrument ID: SMC Calib Start Date: 12/23/2012 11:54

GC Column: ZB-5MS ID: 0.25(mm) Calib End Date: 12/23/2012 14:25

Lab File ID: C2122705.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9775	0.9899	0.7000	10.1	10.0	1.3	20.0
2-Methylnaphthalene	Ave	0.7418	0.7579	0.4000	10.2	10.0	2.2	20.0
1-Methylnaphthalene	Ave	0.7277	0.7312	0.0010	10.0	10.0	0.5	20.0
Acenaphthylene	Ave	2.149	2.105	0.9000	9.80	10.0	-2.0	20.0
Acenaphthene	Ave	1.125	1.094	0.9000	9.73	10.0	-2.7	20.0
Fluorene	Ave	1.501	1.468	0.9000	9.78	10.0	-2.2	20.0
Phenanthrene	Lin1	1.152	1.131	0.7000	10.2	10.0	1.7	20.0
Anthracene	Lin2	1.215	1.222	0.7000	10.2	10.0	1.9	20.0
Fluoranthene	Ave	1.492	1.490	0.6000	9.99	10.0	-0.1	20.0
Pyrene	Ave	1.499	1.451	0.6000	9.68	10.0	-3.2	20.0
Benzo[a]anthracene	Lin1	1.433	1.320	0.8000	9.67	10.0	-3.3	20.0
Chrysene	Lin1	1.205	1.197	0.7000	10.1	10.0	1.2	20.0
Benzo[b]fluoranthene	Ave	1.274	1.231	0.7000	9.66	10.0	-3.4	20.0
Benzo[k]fluoranthene	Lin2	1.251	1.202	0.7000	9.74	10.0	-2.6	20.0
Benzo[a]pyrene	Lin1	1.158	1.104	0.7000	9.78	10.0	-2.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.208	1.218	0.5000	10.1	10.0	0.9	20.0
Dibenz(a,h)anthracene	Lin2	1.176	1.184	0.4000	10.3	10.0	2.6	20.0
Benzo[g,h,i]perylene	Lin2	1.209	1.210	0.5000	10.2	10.0	2.3	20.0
1,3,5-Trichlorobenzene	Ave	0.4304	0.4214		9.79	10.0	-2.1	
o-Terphenyl (Surr)	Lin2	0.7410	0.7235	0.0010	9.95	10.0	-0.5	20.0

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122705.D
Lab Smp Id: CCVIS
Inj Date : 27-DEC-2012 08:25
Operator : VW Inst ID: TSMC5973.i
Smp Info : CCVIS~SMI_PAH^5_00019~1~8270DLL
Misc Info : 1C121227
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 08:44 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALSM03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.282	3.282	(0.941)	608438	10.0000	9.8	
* 1 Naphthalene-d8	136	3.489	3.489	(1.000)	5775980	40.0000		
2 Naphthalene	128	3.500	3.500	(1.003)	1429397	10.0000	10	
3 2-Methylnaphthalene	142	3.863	3.863	(1.107)	1094401	10.0000	10	
4 1-Methylnaphthalene	142	3.920	3.920	(1.123)	1055867	10.0000	10	
* 5 Acenaphthene-d10	164	4.443	4.443	(1.000)	3258287	40.0000		
6 Acenaphthylene	152	4.365	4.365	(0.983)	1715031	10.0000	9.8	
7 Acenaphthene	154	4.459	4.459	(1.003)	891267	10.0000	9.7	
8 Fluorene	166	4.754	4.754	(1.070)	1196177	10.0000	9.8	
* 9 Phenanthrene-d10	188	5.360	5.360	(1.000)	5542290	40.0000	(H)	
10 Phenanthrene	178	5.376	5.376	(1.003)	1566562	10.0000	10(H)	
11 Anthracene	178	5.412	5.412	(1.010)	1693203	10.0000	10	
$ 12 o-Terphenyl	230	5.614	5.614	(1.047)	1002504	10.0000	10(H)	
13 Fluoranthene	202	6.402	6.402	(1.194)	2064119	10.0000	10	
* 14 Chrysene-d12	240	8.299	8.299	(1.000)	5646297	40.0000		
15 Pyrene	202	6.651	6.651	(0.801)	2048294	10.0000	9.7	
16 Benzo(a)anthracene	228	8.267	8.267	(0.996)	1862975	10.0000	9.7	
17 Chrysene	228	8.330	8.330	(1.004)	1690072	10.0000	10	
* 18 Perylene-d12	264	10.734	10.734	(1.000)	6297485	40.0000		
19 Benzo(b)fluoranthene	252	10.061	10.061	(0.937)	1938172	10.0000	9.7	
20 Benzo(k)fluoranthene	252	10.107	10.107	(0.942)	1893078	10.0000	9.7	
21 Benzo(a)pyrene	252	10.610	10.610	(0.988)	1738658	10.0000	9.8	
22 Indeno(1,2,3-cd)pyrene	276	12.460	12.460	(1.161)	1918356	10.0000	10	
23 Dibenzo(a,h)anthracene	278	12.501	12.501	(1.165)	1864816	10.0000	10	
24 Benzo(g,h,i)perylene	276	12.869	12.869	(1.199)	1905027	10.0000	10	

QC Flag Legend

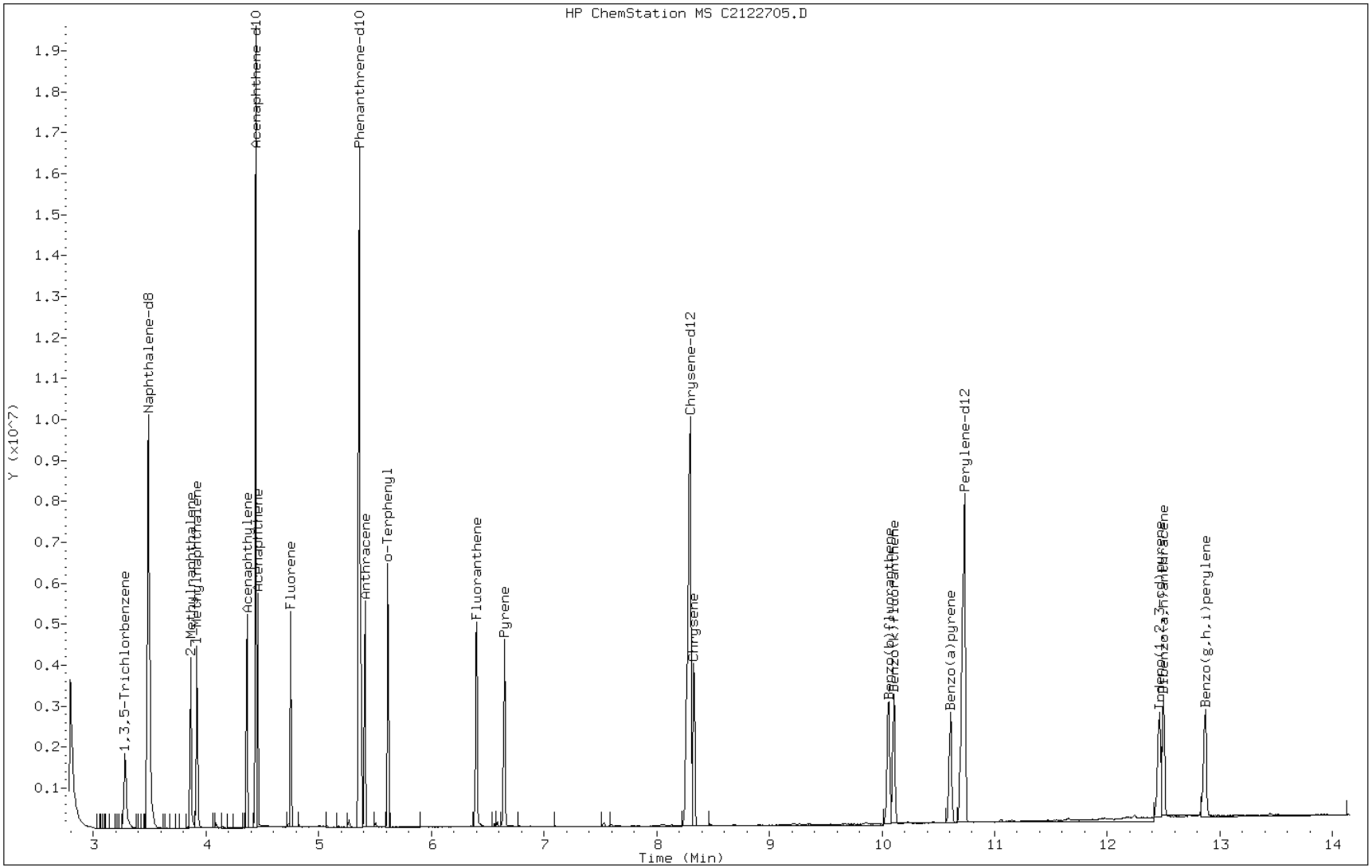
H - Operator selected an alternate compound hit.

Data File: C2122705.D

Date: 27-DEC-2012 08:25

Client ID: Instrument: TSMC5973.i

Sample Info: CCVIS~SMI_PAH^5_00019~1~8270DLL Operator: VW



TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122606.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-DEC-2012 13:51
Operator : VW Inst ID: TSMA5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00011~1~8270D/625
Misc Info : 1A121226
Comment :
Method : \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\sm-Tune8270DLL-m.m
Meth Date : 22-Dec-2012 18:59 vwelch Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALSM03

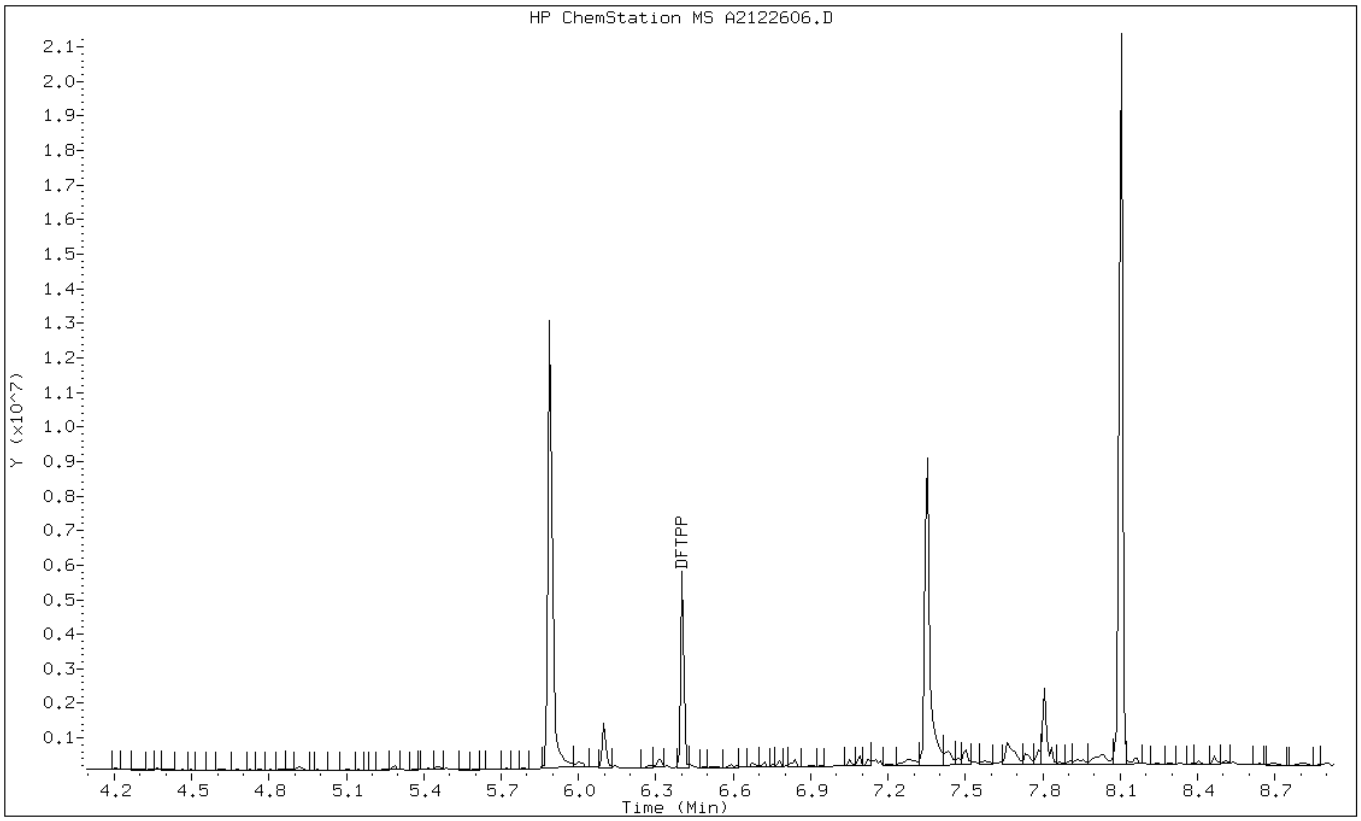
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.400	6.403	-0.003	442	250137			0.00- 100.00	100.00
6.400	6.403	-0.003	51	132733			10.00- 80.00	53.06
6.400	6.403	-0.003	68	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	69	199469			0.00- 0.00	79.74
6.400	6.403	-0.003	70	1840			0.00- 2.00	0.92
6.400	6.403	-0.003	127	136115			10.00- 80.00	54.42
6.400	6.403	-0.003	197	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	199	17348			5.00- 9.00	7.06
6.400	6.403	-0.003	275	70392			10.00- 60.00	28.14
6.400	6.403	-0.003	365	11067			1.00- 0.00	4.42
6.400	6.403	-0.003	441	38576			0.01- 100.00	81.99
6.400	6.403	-0.003	198	245702			50.00- 0.00	98.23
6.400	6.403	-0.003	443	47048			15.00- 24.00	18.81

Data File: A2122606.D

Date: 26-DEC-2012 13:51

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW



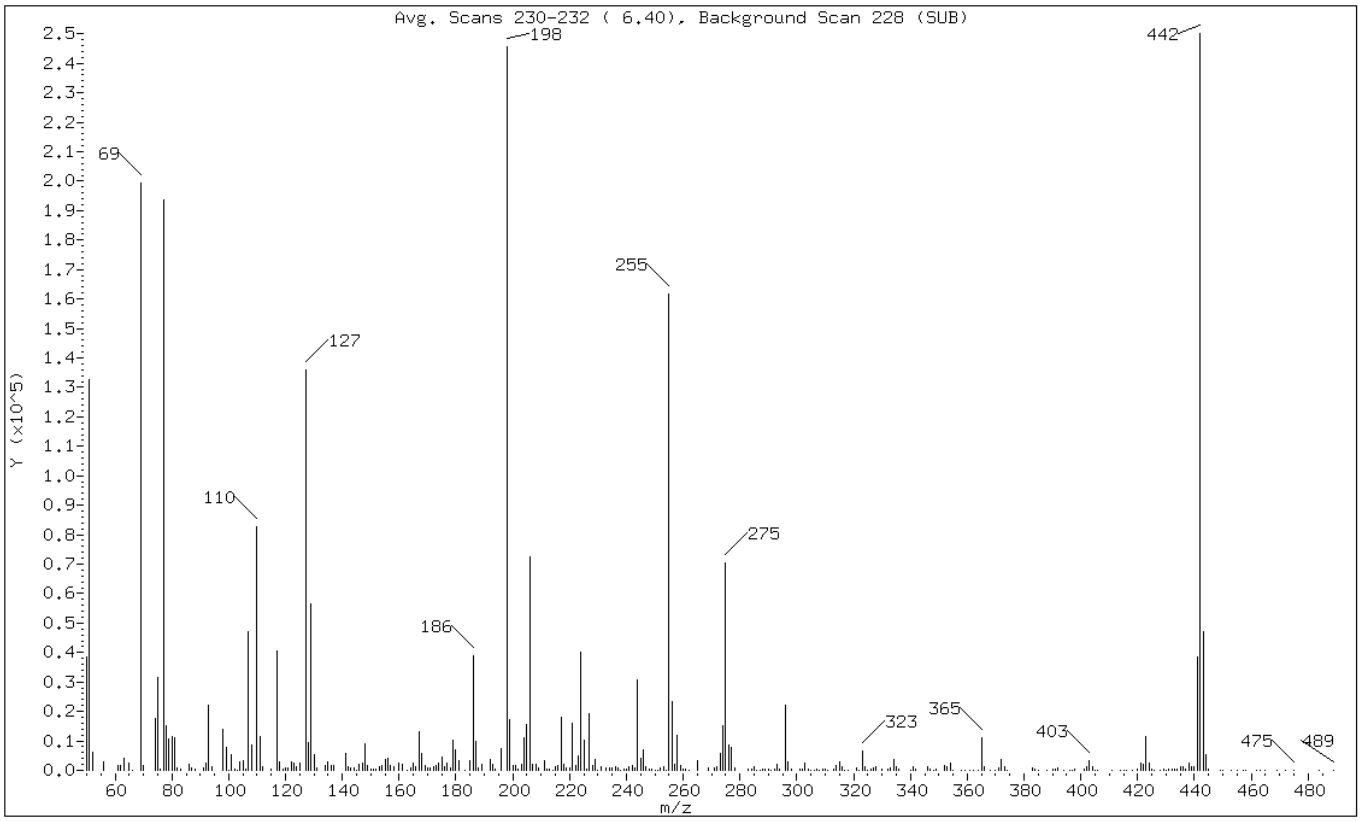
Data File: A2122606.D

Date: 26-DEC-2012 13:51

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	53.06
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	79.74
70	Less than 2.00% of mass 69	0.74 (0.92)
127	10.00 - 80.00% of mass 442	54.42
197	Less than 2.00% of mass 198	0.00 (0.00)
199	5.00 - 9.00% of mass 198	6.94 (7.06)
275	10.00 - 60.00% of mass 442	28.14
365	Greater than 1.00% of mass 442	4.42
441	0.01 - 100.00% of mass 443	15.42 (81.99)
198	Greater than 50.00% of mass 442	98.23
443	15.00 - 24.00% of mass 442	18.81

Data File: A2122606.D

Date: 26-DEC-2012 13:51

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW

Data File: \\Talsvr05\chem\SM\TSMA5973.i\1A121226.b\A2122606.D
Spectrum: Avg. Scans 230-232 (6.40), Background Scan 228 (SUB)
Location of Maximum: 442.00
Number of points: 314

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	38656	160.00	2642	248.00	429	353.00	1110
51.00	132672	161.00	2211	249.00	539	354.00	2498
52.00	5945	163.00	178	250.00	147	355.00	84
56.00	3036	164.00	704	251.00	179	358.00	94
61.00	1740	165.00	2640	252.00	889	359.00	193
62.00	1530	166.00	1172	253.00	1072	361.00	92
63.00	4022	167.00	13157	254.00	108	362.00	81
65.00	2321	168.00	5735	255.00	161792	364.00	71
66.00	63	169.00	1523	256.00	23424	365.00	11067
69.00	199424	170.00	682	257.00	2031	366.00	1298
70.00	1840	171.00	651	258.00	12027	368.00	145
74.00	17744	172.00	1207	259.00	1463	370.00	176
75.00	31504	173.00	1499	260.00	429	371.00	819
76.00	345	174.00	2574	261.00	407	372.00	3627
77.00	193536	175.00	4592	262.00	161	373.00	1147
78.00	15054	176.00	1054	265.00	3234	374.00	81
79.00	10624	177.00	2475	269.00	653	383.00	802
80.00	11557	178.00	954	271.00	760	384.00	305
81.00	11230	179.00	10222	272.00	1224	385.00	138
82.00	923	180.00	7111	273.00	5802	388.00	160
83.00	548	181.00	3150	274.00	15001	390.00	535
86.00	2212	183.00	56	275.00	70392	391.00	298
87.00	690	185.00	3210	276.00	8525	392.00	626
88.00	208	186.00	38960	277.00	7700	394.00	140
91.00	914	187.00	9752	278.00	827	396.00	75
92.00	2520	188.00	914	283.00	407	397.00	157
93.00	22200	189.00	1929	284.00	275	398.00	257
94.00	1074	192.00	3724	285.00	1341	401.00	441
98.00	14024	193.00	2231	286.00	124	402.00	1342
99.00	7634	194.00	267	287.00	110	403.00	3272
100.00	202	196.00	7458	288.00	247	404.00	1080
101.00	5302	198.00	245696	289.00	374	405.00	168
102.00	553	199.00	17344	290.00	326	406.00	60
103.00	133	200.00	1506	291.00	161	411.00	59
104.00	2771	201.00	1475	292.00	291	414.00	100
105.00	3264	202.00	225	293.00	1851	415.00	61
106.00	303	203.00	1996	294.00	515	416.00	75
107.00	47048	204.00	11009	296.00	22176	418.00	153
108.00	8561	205.00	15654	297.00	2740	420.00	383
110.00	82704	206.00	72272	298.00	282	421.00	2278

111.00	11602	207.00	2237	301.00	352	422.00	2051
112.00	1273	208.00	2155	302.00	414	423.00	11639
115.00	543	209.00	664	303.00	2433	424.00	2363
117.00	40704	211.00	3269	304.00	572	425.00	461
118.00	2727	212.00	428	305.00	75	426.00	112
119.00	498	213.00	257	306.00	117	428.00	153
120.00	730	214.00	127	307.00	248	429.00	324
121.00	678	215.00	1339	308.00	142	430.00	117
122.00	2990	216.00	1700	309.00	313	431.00	235
123.00	2476	217.00	18080	310.00	434	432.00	457
124.00	1271	218.00	1858	311.00	126	433.00	612
125.00	2564	219.00	616	313.00	588	434.00	381
127.00	136064	220.00	738	314.00	1566	435.00	1059
128.00	9570	221.00	15980	315.00	2853	436.00	1154
129.00	56472	222.00	1607	316.00	1100	437.00	287
130.00	5135	223.00	4758	317.00	140	438.00	2615
131.00	633	224.00	40312	318.00	175	439.00	1050
134.00	1646	225.00	10100	321.00	799	440.00	1151
135.00	2916	226.00	342	322.00	197	441.00	38576
136.00	1760	227.00	19176	323.00	6488	442.00	250112
137.00	1528	228.00	1748	324.00	1312	443.00	47048
141.00	5601	229.00	3630	325.00	189	444.00	5127
142.00	1250	230.00	18	326.00	239	445.00	357
143.00	990	231.00	1424	327.00	845	449.00	94
144.00	668	233.00	777	328.00	1179	450.00	80
145.00	29	234.00	872	330.00	215	453.00	51
146.00	2165	235.00	904	332.00	440	455.00	92
147.00	2333	236.00	1072	333.00	980	457.00	62
148.00	9123	237.00	720	334.00	3685	458.00	53
149.00	1618	238.00	133	335.00	1220	462.00	75
150.00	312	239.00	255	336.00	335	463.00	59
151.00	589	240.00	516	340.00	158	465.00	57
152.00	373	241.00	1247	341.00	1245	469.00	67
153.00	1228	242.00	1825	342.00	514	472.00	89
154.00	1716	243.00	873	346.00	1354	475.00	97
155.00	3554	244.00	30704	347.00	239	484.00	54
156.00	3999	245.00	4266	348.00	90	489.00	52
157.00	1760	246.00	6903	349.00	316		
158.00	1376	247.00	1178	352.00	1737		

TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122617.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-DEC-2012 17:58
Operator : VW Inst ID: TSMA5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00011~1~8270D/625
Misc Info : 2A121226
Comment :
Method : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\sm-Tune8270DLL-m.m
Meth Date : 22-Dec-2012 18:59 vwelch Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALSM03

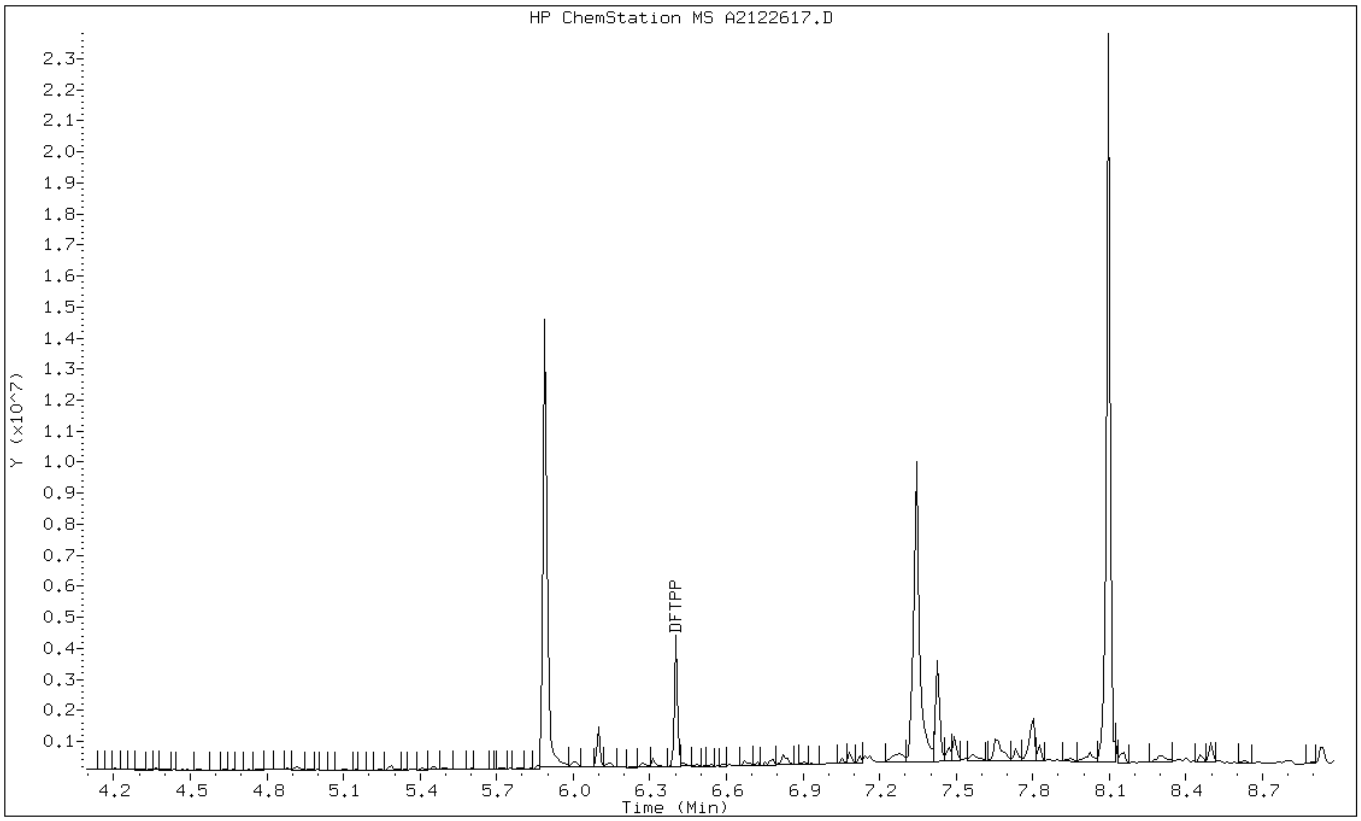
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.400	6.403	-0.003	442	165147			0.00- 100.00	91.96
6.400	6.403	-0.003	51	86545			10.00- 80.00	52.40
6.400	6.403	-0.003	68	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	69	124704			0.00- 0.00	75.51
6.400	6.403	-0.003	70	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	127	85824			10.00- 80.00	51.97
6.400	6.403	-0.003	197	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	199	12915			5.00- 9.00	7.19
6.400	6.403	-0.003	275	51848			10.00- 60.00	31.40
6.400	6.403	-0.003	365	7335			1.00- 0.00	4.44
6.400	6.403	-0.003	441	27275			0.01- 100.00	87.40
6.400	6.403	-0.003	198	179577			50.00- 0.00	108.74
6.400	6.403	-0.003	443	31208			15.00- 24.00	18.90

Data File: A2122617.D

Date: 26-DEC-2012 17:58

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW



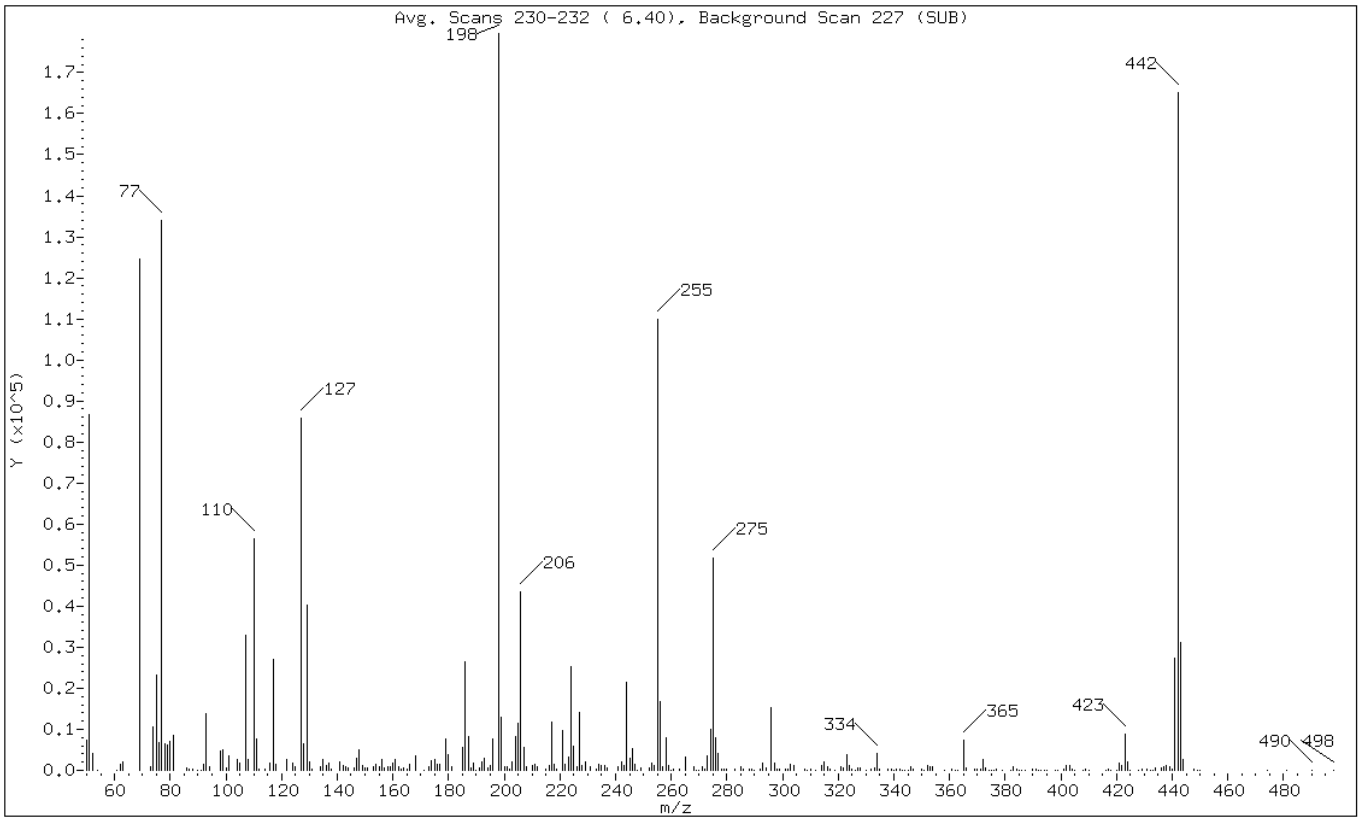
Data File: A2122617.D

Date: 26-DEC-2012 17:58

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	52.40
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	75.51
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 442	51.97
197	Less than 2.00% of mass 198	0.00 (0.00)
199	5.00 - 9.00% of mass 198	7.82 (7.19)
275	10.00 - 60.00% of mass 442	31.40
365	Greater than 1.00% of mass 442	4.44
441	0.01 - 100.00% of mass 443	16.52 (87.40)
198	Greater than 50.00% of mass 442	108.74
443	15.00 - 24.00% of mass 442	18.90

Data File: A2122617.D

Date: 26-DEC-2012 17:58

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270D/625 Operator: VW

Data File: \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122617.D
Spectrum: Avg. Scans 230-232 (6.40), Background Scan 227 (SUB)
Location of Maximum: 198.00
Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	7452	163.00	195	256.00	16816	353.00	870
51.00	86544	164.00	538	257.00	750	354.00	858
52.00	4069	165.00	425	258.00	7810	358.00	85
54.00	73	166.00	1412	259.00	1228	361.00	183
61.00	132	168.00	3478	260.00	50	362.00	36
62.00	1346	171.00	97	261.00	175	363.00	14
63.00	1949	173.00	865	263.00	218	365.00	7335
69.00	124704	174.00	2366	265.00	3197	366.00	557
73.00	957	175.00	2591	268.00	877	369.00	171
74.00	10579	176.00	1411	269.00	36	370.00	238
75.00	23240	177.00	1590	270.00	71	371.00	392
76.00	6680	179.00	7525	271.00	827	372.00	2680
77.00	133888	180.00	3765	272.00	200	373.00	701
78.00	6503	181.00	931	273.00	3455	374.00	103
79.00	6290	185.00	5449	274.00	10112	375.00	84
80.00	6964	186.00	26392	275.00	51848	376.00	133
81.00	8645	187.00	8131	276.00	7821	377.00	148
86.00	536	188.00	634	277.00	4135	379.00	67
87.00	233	189.00	1738	278.00	397	382.00	52
88.00	314	190.00	27	279.00	394	383.00	896
90.00	43	191.00	497	280.00	230	384.00	205
91.00	87	192.00	2078	283.00	332	385.00	100
92.00	1400	193.00	2910	285.00	900	386.00	133
93.00	13739	194.00	714	286.00	270	387.00	123
94.00	760	195.00	1252	288.00	226	390.00	379
98.00	4811	196.00	7704	289.00	391	391.00	408
99.00	4945	198.00	179520	290.00	98	392.00	130
100.00	600	199.00	12915	292.00	238	393.00	71
101.00	3445	200.00	912	293.00	1737	394.00	58
104.00	2727	201.00	936	294.00	465	395.00	113
105.00	1694	202.00	223	296.00	15245	398.00	90
107.00	32840	203.00	1948	297.00	1709	399.00	69
108.00	2549	204.00	8153	298.00	187	401.00	312
110.00	56472	205.00	11582	299.00	159	402.00	1129
111.00	7629	206.00	43448	301.00	384	403.00	1282
112.00	314	207.00	5644	302.00	389	404.00	345
114.00	244	208.00	866	303.00	1542	405.00	72
116.00	1791	210.00	1313	304.00	1054	408.00	64
117.00	27048	211.00	1380	308.00	344	409.00	202
118.00	1518	212.00	909	309.00	102	410.00	66

122.00	2537	215.00	310	310.00	182	416.00	113
124.00	1660	216.00	1058	312.00	53	417.00	244
125.00	931	217.00	11808	314.00	1039	418.00	76
127.00	85824	218.00	1349	315.00	2001	420.00	61
128.00	6412	219.00	363	316.00	739	421.00	1748
129.00	40128	221.00	9721	317.00	266	422.00	1305
130.00	2138	222.00	1547	319.00	52	423.00	8712
131.00	415	223.00	3290	321.00	746	424.00	1997
134.00	914	224.00	25320	322.00	461	425.00	100
135.00	2709	225.00	5893	323.00	3750	428.00	97
136.00	1269	226.00	866	324.00	1235	429.00	303
137.00	1730	227.00	13985	325.00	217	431.00	200
138.00	210	228.00	1223	326.00	135	432.00	57
141.00	1991	229.00	2082	327.00	522	433.00	112
142.00	1079	231.00	766	328.00	574	434.00	617
143.00	907	233.00	326	330.00	50	436.00	487
144.00	635	234.00	1395	332.00	432	437.00	873
146.00	723	235.00	1230	333.00	631	438.00	1064
147.00	2860	236.00	1089	334.00	3994	439.00	980
148.00	5103	237.00	610	335.00	351	440.00	288
149.00	1087	241.00	906	338.00	201	441.00	27272
150.00	476	242.00	2149	339.00	231	442.00	165120
151.00	647	243.00	1183	340.00	63	443.00	31208
153.00	807	244.00	21472	341.00	437	444.00	2657
154.00	1397	245.00	2851	342.00	218	448.00	241
155.00	941	246.00	5363	343.00	110	449.00	64
156.00	2754	247.00	1433	344.00	63	450.00	52
157.00	664	248.00	10	345.00	94	474.00	61
158.00	771	249.00	691	346.00	1012	481.00	56
159.00	852	252.00	648	347.00	194	490.00	71
160.00	1841	253.00	1648	350.00	190	498.00	103
161.00	2610	254.00	1065	351.00	117		
162.00	989	255.00	109744	352.00	1048		

TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122703.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-DEC-2012 08:17
Operator : VW Inst ID: TSMA5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00014~1~8270D/625
Misc Info : 1A121227
Comment   :
Method   : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\sm-Tune8270DLL-m.m
Meth Date : 22-Dec-2012 18:59 vwelch Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALSM03

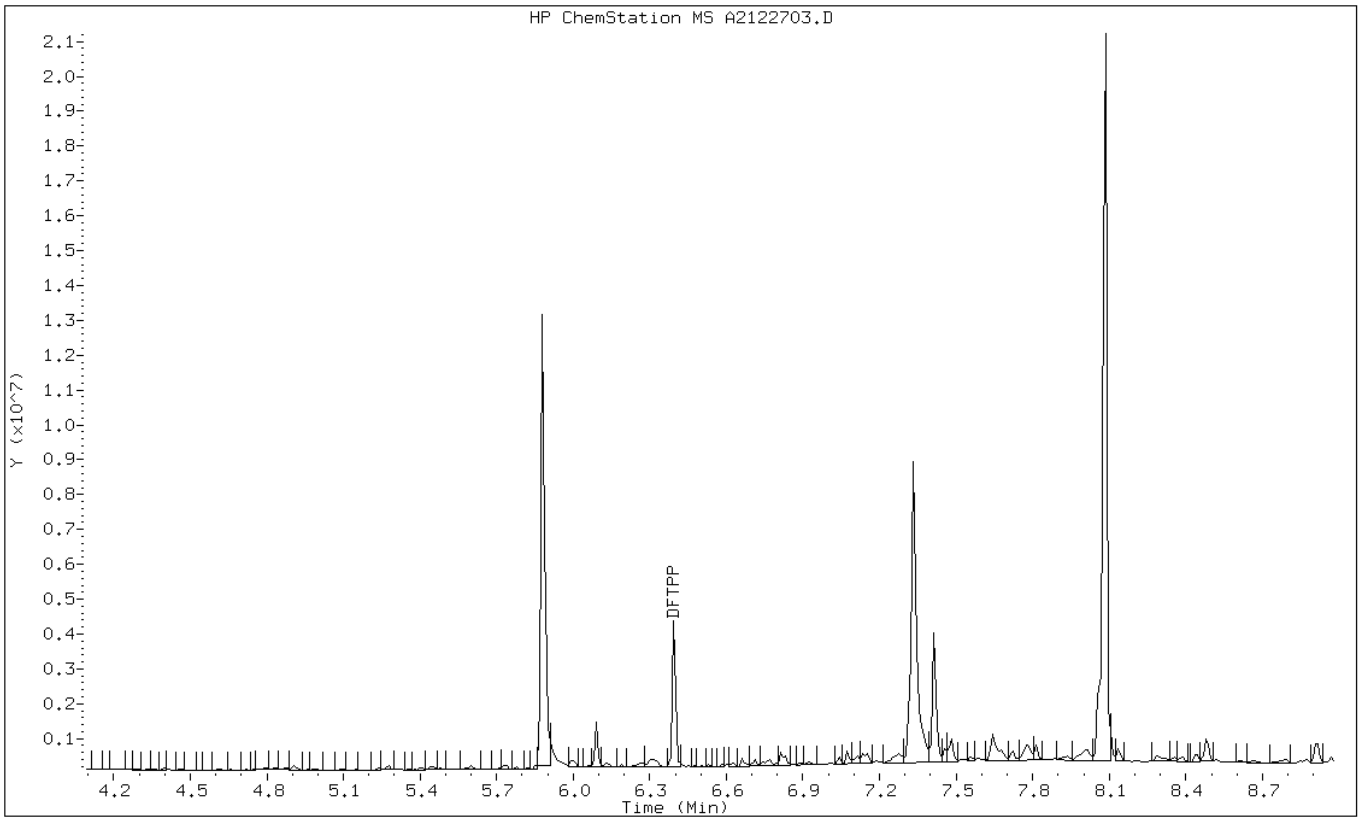
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.391	6.403	-0.012	442	193310			0.00- 100.00	100.00
6.391	6.403	-0.012	51	104476			10.00- 80.00	54.05
6.391	6.403	-0.012	68	0	0.0	0.0	0.00- 2.00	0.00
6.391	6.403	-0.012	69	142808			0.00- 0.00	73.88
6.391	6.403	-0.012	70	0	0.0	0.0	0.00- 2.00	0.00
6.391	6.403	-0.012	127	101167			10.00- 80.00	52.33
6.391	6.403	-0.012	197	0	0.0	0.0	0.00- 2.00	0.00
6.391	6.403	-0.012	199	14852			5.00- 9.00	7.81
6.391	6.403	-0.012	275	54792			10.00- 60.00	28.34
6.391	6.403	-0.012	365	7935			1.00- 0.00	4.10
6.391	6.403	-0.012	441	31168			0.01- 100.00	82.49
6.391	6.403	-0.012	198	190272			50.00- 0.00	98.43
6.391	6.403	-0.012	443	37782			15.00- 24.00	19.54

Data File: A2122703.D

Date: 27-DEC-2012 08:17

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270D/625 Operator: VW



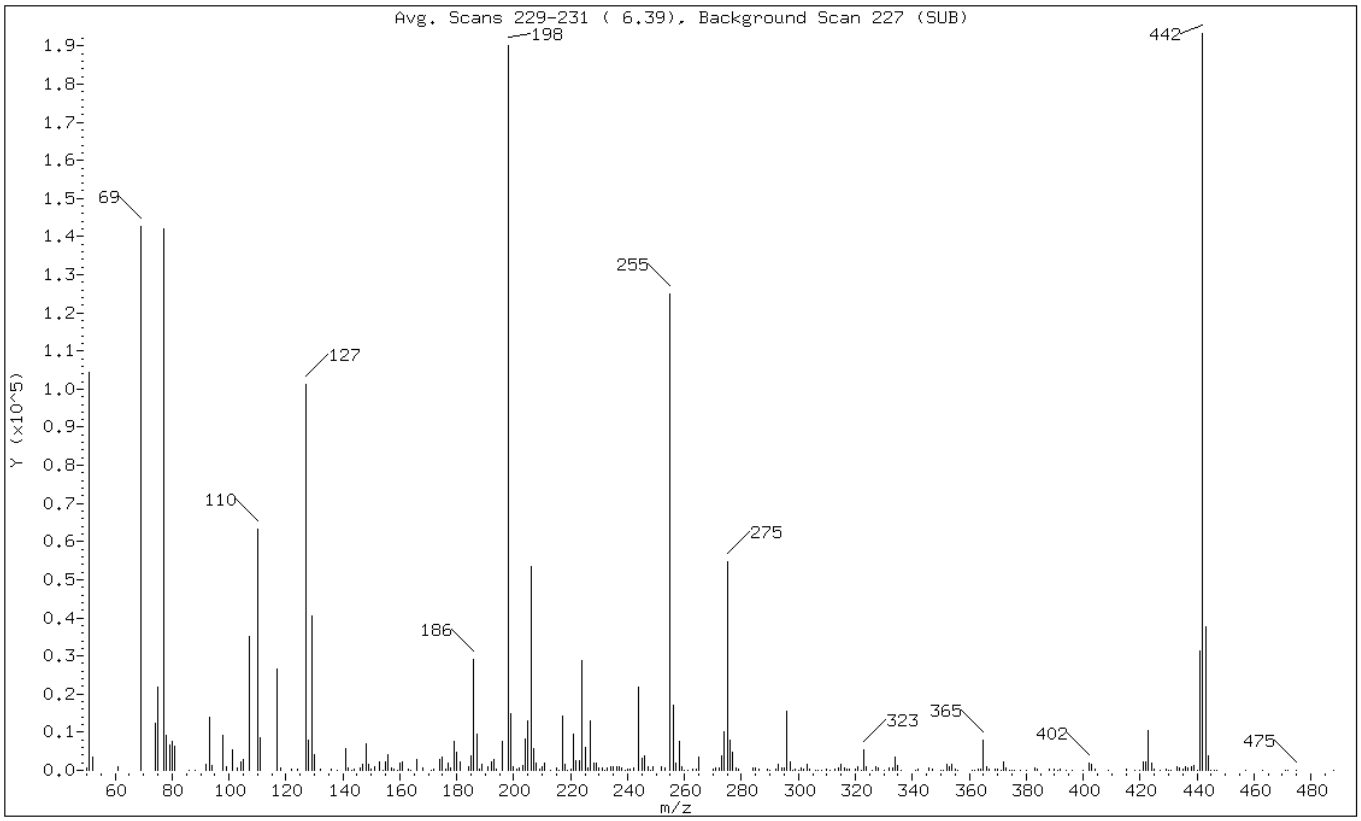
Data File: A2122703.D

Date: 27-DEC-2012 08:17

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270D/625 Operator: VW

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	54.05
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	73.88
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 442	52.33
197	Less than 2.00% of mass 198	0.00 (0.00)
199	5.00 - 9.00% of mass 198	7.68 (7.81)
275	10.00 - 60.00% of mass 442	28.34
365	Greater than 1.00% of mass 442	4.10
441	0.01 - 100.00% of mass 443	16.12 (82.49)
198	Greater than 50.00% of mass 442	98.43
443	15.00 - 24.00% of mass 442	19.54

Data File: A2122703.D

Date: 27-DEC-2012 08:17

Client ID: DFTPP Instrument: TSMA5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270D/625 Operator: VW

Data File: \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122703.D
Spectrum: Avg. Scans 229-231 (6.39), Background Scan 227 (SUB)
Location of Maximum: 442.00
Number of points: 269

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	584	180.00	4833	259.00	909	355.00	181
51.00	104472	181.00	2079	260.00	132	356.00	61
52.00	3437	184.00	1011	261.00	59	361.00	80
61.00	824	185.00	3776	263.00	197	362.00	65
69.00	142784	186.00	29128	264.00	428	363.00	226
74.00	12404	187.00	9332	265.00	3631	364.00	367
75.00	21760	188.00	377	270.00	242	365.00	7935
77.00	142144	189.00	1717	271.00	709	366.00	1090
78.00	9320	191.00	1002	272.00	757	367.00	378
79.00	6703	192.00	2295	273.00	3654	369.00	323
80.00	7522	193.00	2987	274.00	10054	370.00	202
81.00	6175	194.00	237	275.00	54792	371.00	31
86.00	35	196.00	7495	276.00	7969	372.00	2281
88.00	51	198.00	190272	277.00	4811	373.00	574
92.00	1433	199.00	14852	278.00	737	374.00	78
93.00	14055	200.00	923	279.00	277	375.00	131
94.00	1384	201.00	402	284.00	631	376.00	15
98.00	9330	202.00	655	285.00	724	378.00	139
99.00	931	203.00	1273	286.00	245	380.00	106
101.00	5244	204.00	8202	289.00	403	383.00	785
103.00	511	205.00	12874	290.00	156	384.00	216
104.00	2254	206.00	53472	292.00	204	388.00	190
105.00	2801	207.00	5825	293.00	1443	390.00	416
107.00	35008	208.00	1831	294.00	512	391.00	82
110.00	63400	209.00	282	295.00	589	392.00	292
111.00	8479	210.00	852	296.00	15559	394.00	142
117.00	26432	211.00	1913	297.00	2360	396.00	153
118.00	664	213.00	140	298.00	97	400.00	106
122.00	456	215.00	665	299.00	182	402.00	1748
124.00	458	216.00	126	300.00	84	403.00	1449
127.00	101160	217.00	14085	301.00	549	404.00	287
128.00	7823	218.00	1470	302.00	172	409.00	57
129.00	40384	219.00	20	303.00	1469	415.00	327
130.00	4027	220.00	317	304.00	207	418.00	56
132.00	464	221.00	9446	306.00	52	420.00	66
136.00	227	222.00	2482	307.00	90	421.00	2087
138.00	18	223.00	2597	308.00	111	422.00	2067
141.00	5752	224.00	28912	310.00	308	423.00	10383
142.00	615	225.00	6104	311.00	61	424.00	1772
143.00	147	226.00	499	313.00	172	425.00	427

144.00	399	227.00	13114	314.00	616	427.00	143
146.00	645	228.00	1762	315.00	1444	429.00	371
147.00	1635	229.00	1988	316.00	623	430.00	91
148.00	7068	230.00	691	317.00	361	431.00	90
149.00	1679	231.00	481	318.00	163	433.00	869
150.00	279	232.00	85	320.00	172	434.00	693
151.00	1041	233.00	510	321.00	917	435.00	443
153.00	2082	234.00	839	322.00	93	436.00	988
154.00	31	235.00	1020	323.00	5407	437.00	713
155.00	2240	236.00	1073	324.00	810	438.00	907
156.00	4051	237.00	898	326.00	3	439.00	1384
157.00	584	238.00	749	327.00	893	440.00	94
158.00	359	239.00	41	328.00	575	441.00	31168
159.00	149	240.00	205	330.00	145	442.00	193280
160.00	1763	241.00	226	332.00	625	443.00	37776
161.00	2337	242.00	679	333.00	618	444.00	3725
163.00	369	244.00	21712	334.00	3562	445.00	5
164.00	16	245.00	3231	335.00	1333	446.00	5
166.00	2982	246.00	3749	336.00	137	447.00	80
168.00	689	247.00	1098	341.00	37	457.00	105
171.00	146	248.00	134	342.00	323	463.00	60
172.00	435	249.00	1097	346.00	641	471.00	80
174.00	2690	252.00	907	347.00	187	472.00	52
175.00	3513	253.00	757	350.00	93	475.00	133
176.00	439	255.00	124800	351.00	46	488.00	113
177.00	1956	256.00	17152	352.00	1570		
178.00	595	257.00	1948	353.00	1091		
179.00	7556	258.00	7442	354.00	1560		

TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122301.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 23-DEC-2012 11:41
Operator : MF Inst ID: TSMC5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00011~1~8270DLL
Misc Info : 1C121223
Comment :
Method : \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\sm-Tune8270DLL-m.m
Meth Date : 23-Dec-2012 10:17 mfrank Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALLC01

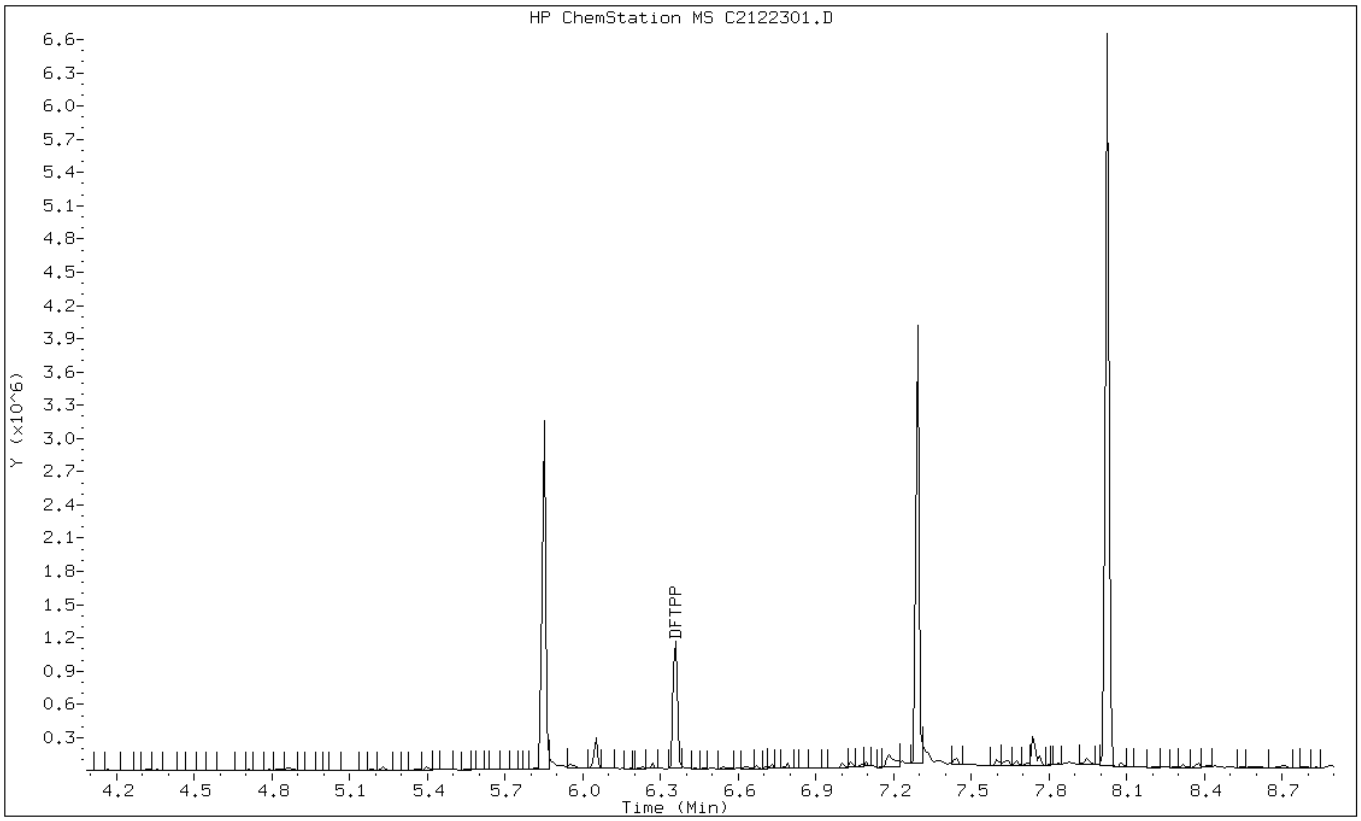
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.362	6.360	0.002	442	67240			0.00- 100.00	89.05
6.362	6.360	0.002	51	36398			10.00- 80.00	54.13
6.362	6.360	0.002	68	188			0.00- 2.00	0.61
6.362	6.360	0.002	69	30593			0.00- 0.00	45.50
6.362	6.360	0.002	70	188			0.00- 2.00	0.61
6.362	6.360	0.002	127	34930			10.00- 80.00	51.95
6.362	6.360	0.002	197	313			0.00- 2.00	0.41
6.362	6.360	0.002	199	5033			5.00- 9.00	6.67
6.362	6.360	0.002	275	18816			10.00- 60.00	27.98
6.362	6.360	0.002	365	3503			1.00- 0.00	5.21
6.362	6.360	0.002	441	9931			0.01- 100.00	75.47
6.362	6.360	0.002	198	75512			50.00- 0.00	112.30
6.362	6.360	0.002	443	13158			15.00- 24.00	19.57

Data File: C2122301.D

Date: 23-DEC-2012 11:41

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: MF



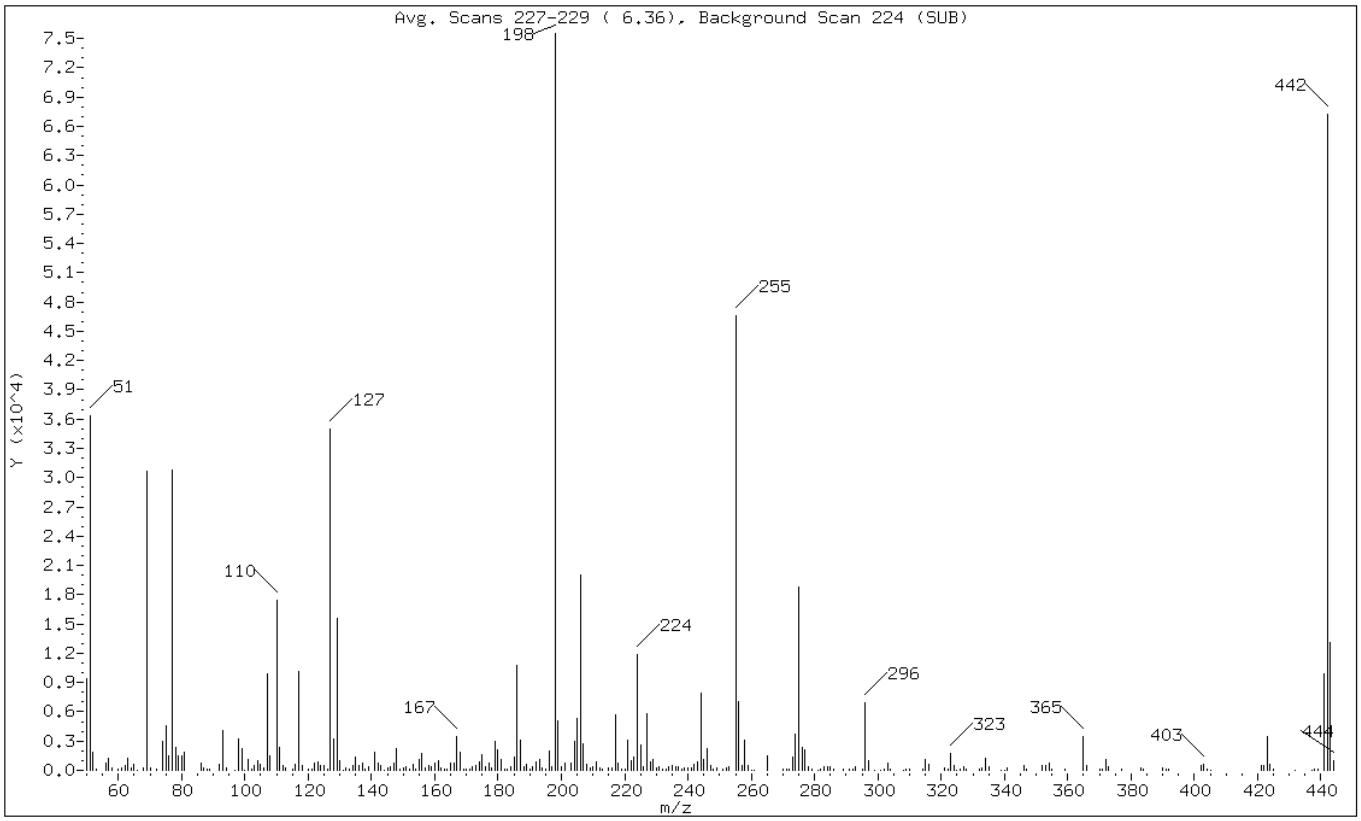
Data File: C2122301.D

Date: 23-DEC-2012 11:41

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: MF

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	54.13
68	Less than 2.00% of mass 69	0.28 (0.61)
69	Mass 69 relative abundance	45.50
70	Less than 2.00% of mass 69	0.28 (0.61)
127	10.00 - 80.00% of mass 442	51.95
197	Less than 2.00% of mass 198	0.47 (0.41)
199	5.00 - 9.00% of mass 198	7.49 (6.67)
275	10.00 - 60.00% of mass 442	27.98
365	Greater than 1.00% of mass 442	5.21
441	0.01 - 100.00% of mass 443	14.77 (75.47)
198	Greater than 50.00% of mass 442	112.30
443	15.00 - 24.00% of mass 442	19.57

Data File: C2122301.D

Date: 23-DEC-2012 11:41

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: MF

Data File: \\Talsvr05\chem\SM\TSMC5973.i\1C121223.b\C2122301.D
Spectrum: Avg. Scans 227-229 (6.36), Background Scan 224 (SUB)
Location of Maximum: 198.00
Number of points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	9343	137.00	691	209.00	294	293.00	356
51.00	36392	138.00	171	210.00	380	295.00	124
52.00	1856	139.00	323	211.00	882	296.00	6913
53.00	95	141.00	1904	212.00	217	297.00	1036
56.00	802	142.00	698	213.00	66	299.00	57
57.00	1240	143.00	440	215.00	257	301.00	61
58.00	289	144.00	61	216.00	303	302.00	80
60.00	123	145.00	287	217.00	5624	303.00	749
61.00	211	146.00	393	218.00	739	304.00	97
62.00	459	147.00	701	219.00	151	308.00	55
63.00	1285	148.00	2245	220.00	116	309.00	68
64.00	228	149.00	104	221.00	3058	310.00	69
65.00	582	150.00	241	222.00	953	314.00	155
66.00	59	151.00	430	223.00	1327	315.00	1085
68.00	188	152.00	145	224.00	11818	316.00	573
69.00	30592	153.00	577	225.00	2538	321.00	267
70.00	188	154.00	116	226.00	409	322.00	78
72.00	146	155.00	1115	227.00	5752	323.00	1742
74.00	2961	156.00	1692	228.00	828	324.00	457
75.00	4535	157.00	271	229.00	1120	325.00	56
76.00	1503	158.00	514	230.00	258	326.00	118
77.00	30768	159.00	400	231.00	398	327.00	390
78.00	2348	160.00	725	232.00	69	328.00	140
79.00	1529	161.00	938	233.00	67	332.00	162
80.00	1460	162.00	291	234.00	377	333.00	204
81.00	1861	163.00	144	235.00	491	334.00	1239
86.00	730	164.00	68	236.00	327	335.00	365
87.00	276	165.00	749	237.00	388	339.00	54
88.00	82	166.00	800	238.00	93	340.00	50
89.00	78	167.00	3413	239.00	266	341.00	228
92.00	638	168.00	1820	240.00	208	346.00	466
93.00	4101	169.00	161	241.00	272	347.00	98
94.00	228	170.00	155	242.00	672	352.00	537
97.00	51	171.00	158	243.00	841	353.00	510
98.00	3245	172.00	387	244.00	7961	354.00	721
99.00	2278	173.00	479	245.00	1171	355.00	104
100.00	53	174.00	810	246.00	2204	359.00	65
101.00	1119	175.00	1594	247.00	479	365.00	3503
102.00	70	176.00	424	248.00	138	366.00	479
103.00	464	177.00	777	249.00	209	370.00	148

104.00	969	178.00	263
105.00	619	179.00	2939
106.00	201	180.00	2109
107.00	9939	181.00	1169
108.00	1456	182.00	176
110.00	17400	183.00	156
111.00	2408	184.00	333
112.00	502	185.00	1411
113.00	217	186.00	10743
115.00	86	187.00	3069
116.00	585	188.00	339
117.00	10082	189.00	679
118.00	542	190.00	144
120.00	171	191.00	352
121.00	71	192.00	920
122.00	730	193.00	1122
123.00	858	194.00	217
124.00	522	195.00	144
125.00	516	196.00	1984
126.00	123	197.00	313
127.00	34928	198.00	75512
128.00	3215	199.00	5033
129.00	15513	200.00	384
130.00	954	201.00	704
131.00	22	203.00	727
132.00	209	204.00	2908
133.00	80	205.00	5286
134.00	438	206.00	19968
135.00	1397	207.00	2748
136.00	441	208.00	676

251.00	92	371.00	153
252.00	286	372.00	1085
253.00	328	373.00	340
255.00	46600	377.00	69
256.00	7055	383.00	244
257.00	480	384.00	67
258.00	3125	390.00	192
259.00	476	391.00	106
260.00	57	392.00	68
261.00	56	402.00	510
265.00	1533	403.00	679
270.00	73	404.00	145
271.00	118	405.00	60
272.00	155	421.00	446
273.00	1399	422.00	440
274.00	3742	423.00	3399
275.00	18816	424.00	634
276.00	2308	425.00	89
277.00	2052	432.00	58
278.00	373	437.00	50
279.00	75	438.00	73
281.00	60	439.00	73
282.00	74	441.00	9931
283.00	309	442.00	67240
284.00	364	443.00	13158
285.00	356	444.00	1008
286.00	83		
289.00	147		
291.00	62		
292.00	106		

TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122603.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 26-DEC-2012 13:35
Operator : VW Inst ID: TSMC5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00011~1~8270DLL
Misc Info : 1C121226
Comment :
Method : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-Tune8270DLL-m.m
Meth Date : 23-Dec-2012 10:17 mfrank Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALSM03

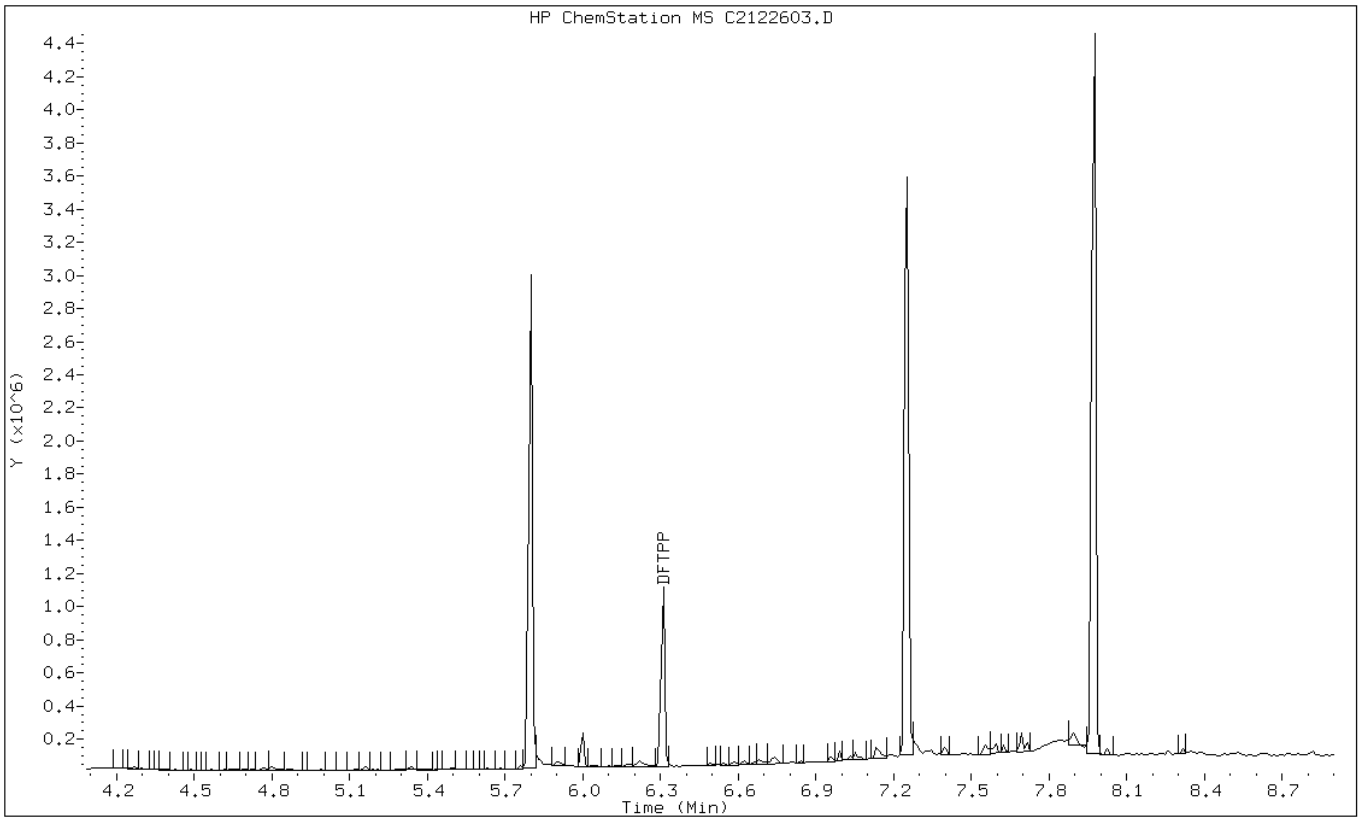
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.311	6.360	-0.049	442	54384			0.00- 100.00	89.93
6.311	6.360	-0.049	51	28581			10.00- 80.00	52.55
6.311	6.360	-0.049	68	0	0.0	0.0	0.00- 2.00	0.00
6.311	6.360	-0.049	69	22261			0.00- 0.00	40.93
6.311	6.360	-0.049	70	0	0.0	0.0	0.00- 2.00	0.00
6.311	6.360	-0.049	127	28697			10.00- 80.00	52.77
6.311	6.360	-0.049	197	0	0.0	0.0	0.00- 2.00	0.00
6.311	6.360	-0.049	199	3911			5.00- 9.00	6.47
6.311	6.360	-0.049	275	16512			10.00- 60.00	30.36
6.311	6.360	-0.049	365	3055			1.00- 0.00	5.62
6.311	6.360	-0.049	441	8506			0.01- 100.00	78.32
6.311	6.360	-0.049	198	60471			50.00- 0.00	111.19
6.311	6.360	-0.049	443	10860			15.00- 24.00	19.97

Data File: C2122603.D

Date: 26-DEC-2012 13:35

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: VW



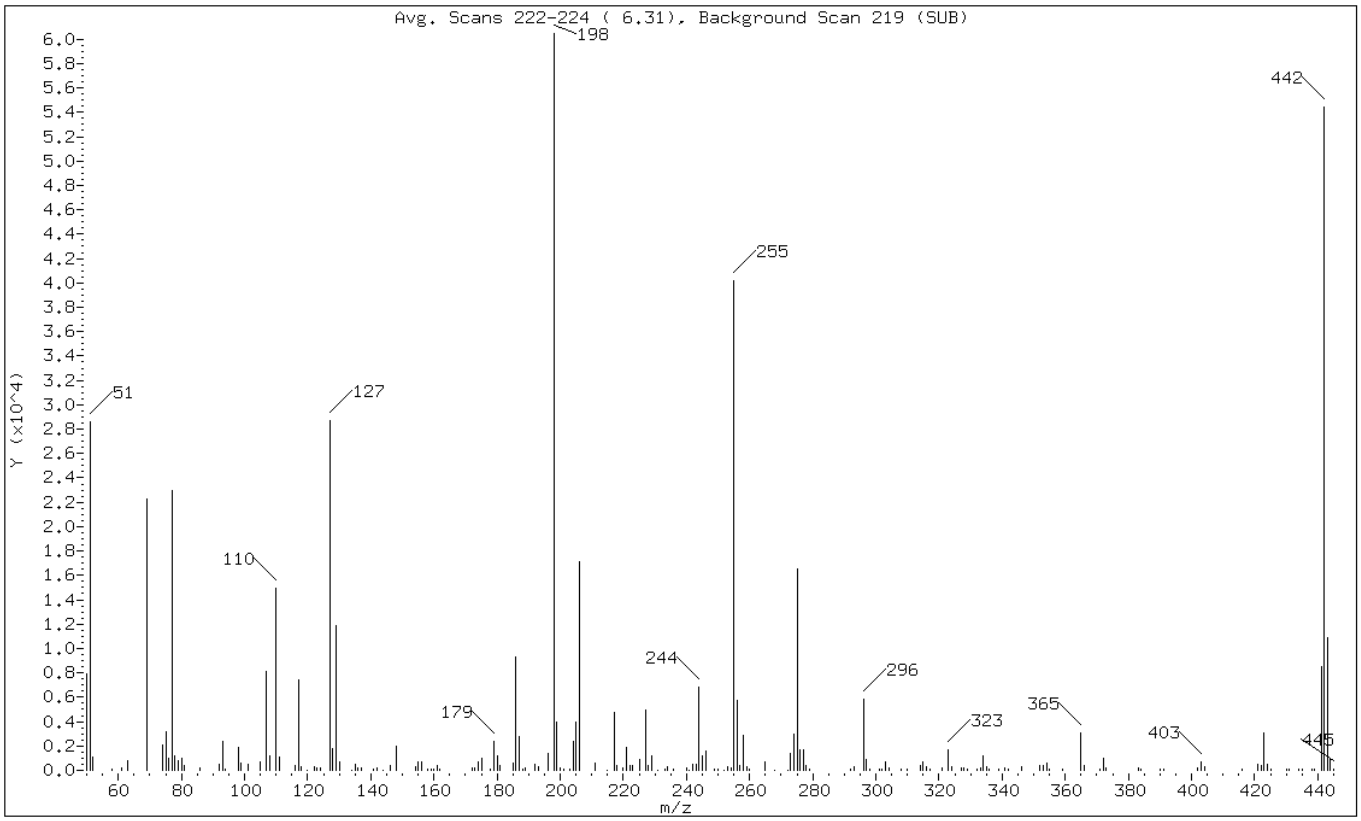
Data File: C2122603.D

Date: 26-DEC-2012 13:35

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: VW

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	52.55
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.93
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 442	52.77
197	Less than 2.00% of mass 198	0.00 (0.00)
199	5.00 - 9.00% of mass 198	7.19 (6.47)
275	10.00 - 60.00% of mass 442	30.36
365	Greater than 1.00% of mass 442	5.62
441	0.01 - 100.00% of mass 443	15.64 (78.32)
198	Greater than 50.00% of mass 442	111.19
443	15.00 - 24.00% of mass 442	19.97

Data File: C2122603.D

Date: 26-DEC-2012 13:35

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00011~1~8270DLL Operator: VW

Data File: \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122603.D
Spectrum: Avg. Scans 222-224 (6.31), Background Scan 219 (SUB)
Location of Maximum: 198.00
Number of points: 187

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	7912	154.00	272	236.00	61	327.00	244
51.00	28576	155.00	679	240.00	151	328.00	206
52.00	1105	156.00	707	241.00	43	329.00	58
58.00	94	158.00	82	242.00	526	332.00	137
61.00	161	159.00	70	243.00	519	333.00	199
63.00	766	160.00	142	244.00	6805	334.00	1147
69.00	22256	161.00	381	245.00	1203	335.00	325
74.00	2055	162.00	124	246.00	1539	336.00	51
75.00	3120	172.00	182	249.00	53	339.00	77
76.00	962	173.00	220	250.00	133	341.00	216
77.00	22960	174.00	653	252.00	15	342.00	66
78.00	1219	175.00	1015	253.00	333	346.00	304
79.00	775	178.00	99	254.00	223	352.00	370
80.00	974	179.00	2422	255.00	40160	353.00	377
81.00	354	180.00	1209	256.00	5698	354.00	559
86.00	159	181.00	438	257.00	444	355.00	83
92.00	515	185.00	642	258.00	2850	359.00	80
93.00	2377	186.00	9330	259.00	269	365.00	3055
94.00	125	187.00	2791	260.00	88	366.00	361
98.00	1908	188.00	105	265.00	661	371.00	93
99.00	589	189.00	153	268.00	15	372.00	1026
101.00	485	192.00	447	272.00	36	373.00	219
105.00	695	193.00	269	273.00	1345	383.00	194
107.00	8124	196.00	1391	274.00	3002	384.00	63
108.00	1216	198.00	60464	275.00	16512	390.00	83
110.00	14902	199.00	3911	276.00	1664	391.00	62
111.00	1138	200.00	229	277.00	1703	402.00	222
116.00	387	201.00	83	278.00	402	403.00	695
117.00	7390	203.00	71	279.00	53	404.00	256
118.00	341	204.00	2337	292.00	76	416.00	62
120.00	13	205.00	3976	293.00	253	421.00	470
122.00	322	206.00	17144	296.00	5798	422.00	402
123.00	218	211.00	610	297.00	921	423.00	3062
124.00	243	215.00	31	298.00	100	424.00	514
127.00	28696	217.00	4792	301.00	86	425.00	63
128.00	1757	218.00	363	302.00	125	430.00	50
129.00	11905	220.00	151	303.00	664	431.00	57
130.00	700	221.00	1889	304.00	212	434.00	53
134.00	49	222.00	381	308.00	103	435.00	65
135.00	471	223.00	442	310.00	71	438.00	128

136.00	243	225.00	849	314.00	352	439.00	141
137.00	183	227.00	4958	315.00	724	441.00	8506
141.00	55	228.00	408	316.00	253	442.00	54384
142.00	164	229.00	1164	317.00	112	443.00	10860
144.00	7	231.00	9	321.00	215	444.00	920
146.00	361	233.00	97	323.00	1672	445.00	74
148.00	1968	234.00	322	324.00	286		

TestAmerica Tallahassee

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122704.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 27-DEC-2012 08:12
Operator : VW Inst ID: TSMC5973.i
Smp Info : DFTPP~SMI_DFTPPtune_00014~1~8270DLL
Misc Info : 1C121227
Comment :
Method : \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\sm-Tune8270DLL-m.m
Meth Date : 23-Dec-2012 10:17 mfrank Quant Type: ESTD
Cal Date : 17-MAY-1999 10:07 Cal File: AEQ00.D
Als bottle: 96 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TALSM03

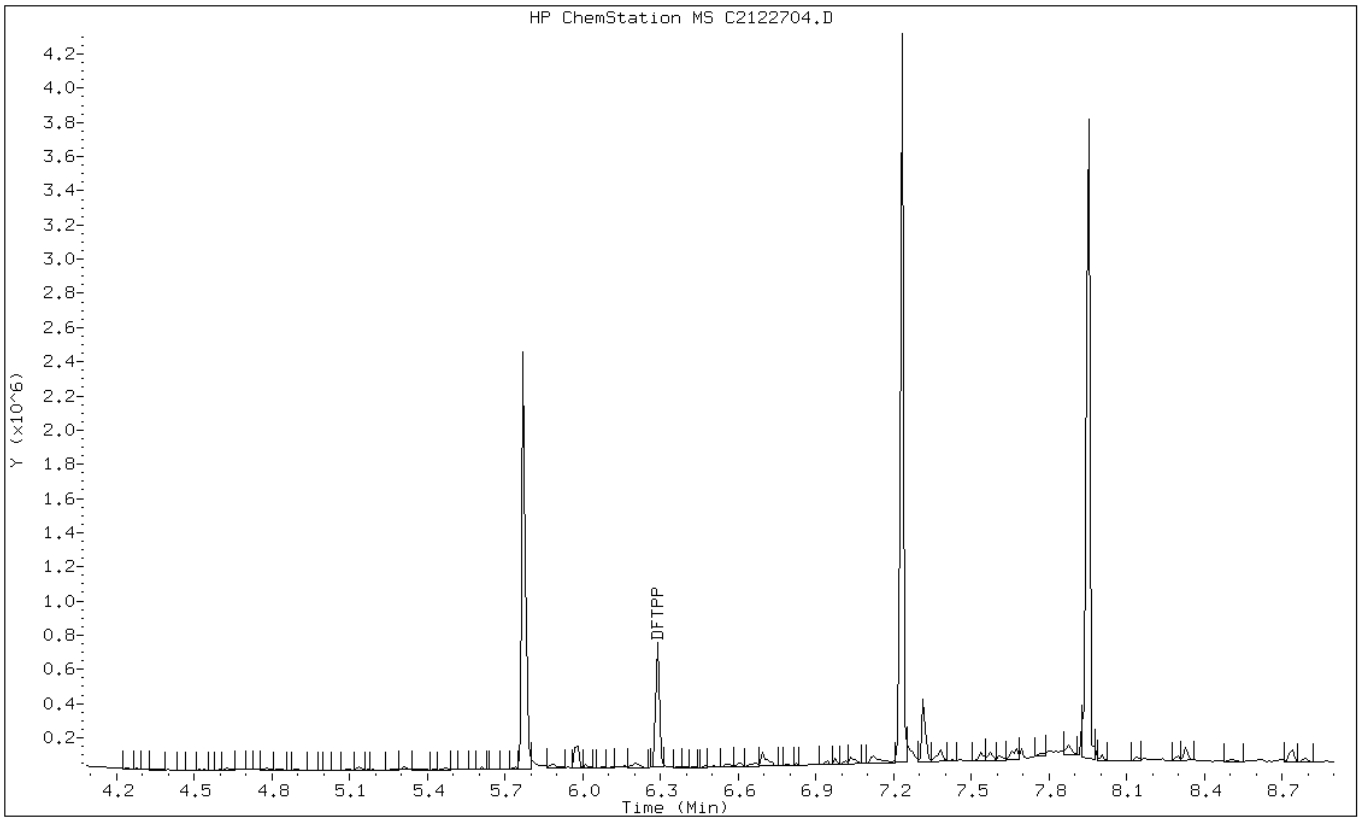
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.291	6.360	-0.069	442	34904			0.00- 100.00	87.54
6.291	6.360	-0.069	51	17532			10.00- 80.00	50.23
6.291	6.360	-0.069	68	0	0.0	0.0	0.00- 2.00	0.00
6.291	6.360	-0.069	69	15362			0.00- 0.00	44.01
6.291	6.360	-0.069	70	0	0.0	0.0	0.00- 2.00	0.00
6.291	6.360	-0.069	127	18017			10.00- 80.00	51.62
6.291	6.360	-0.069	197	224			0.00- 2.00	0.56
6.291	6.360	-0.069	199	2541			5.00- 9.00	6.37
6.291	6.360	-0.069	275	10565			10.00- 60.00	30.27
6.291	6.360	-0.069	365	1706			1.00- 0.00	4.89
6.291	6.360	-0.069	441	5415			0.01- 100.00	77.56
6.291	6.360	-0.069	198	39872			50.00- 0.00	114.23
6.291	6.360	-0.069	443	6982			15.00- 24.00	20.00

Data File: C2122704.D

Date: 27-DEC-2012 08:12

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270DLL Operator: VW



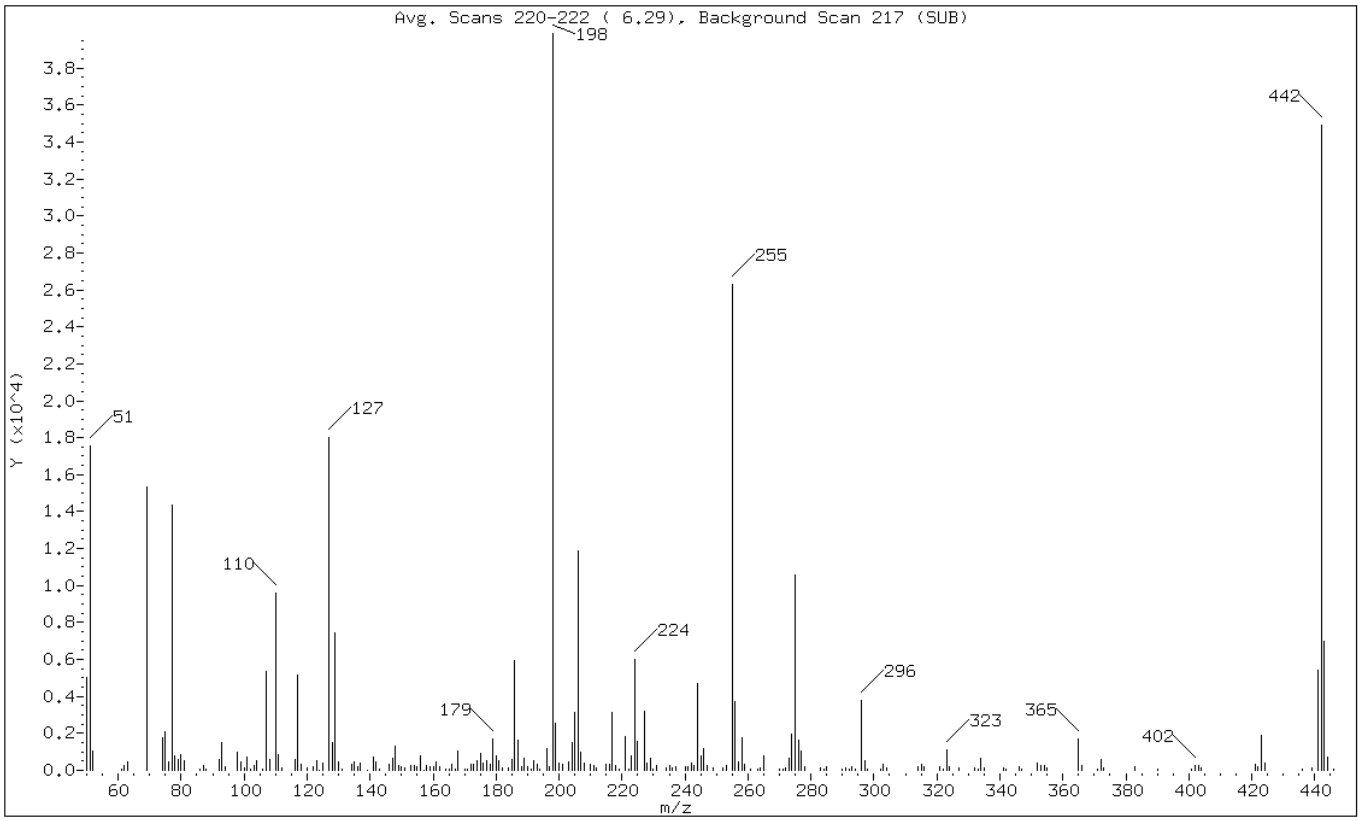
Data File: C2122704.D

Date: 27-DEC-2012 08:12

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270DLL Operator: VW

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
442	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 442	50.23
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.01
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 442	51.62
197	Less than 2.00% of mass 198	0.64 (0.56)
199	5.00 - 9.00% of mass 198	7.28 (6.37)
275	10.00 - 60.00% of mass 442	30.27
365	Greater than 1.00% of mass 442	4.89
441	0.01 - 100.00% of mass 443	15.51 (77.56)
198	Greater than 50.00% of mass 442	114.23
443	15.00 - 24.00% of mass 442	20.00

Data File: C2122704.D

Date: 27-DEC-2012 08:12

Client ID: DFTPP Instrument: TSMC5973.i

Sample Info: DFTPP~SMI_DFTPPtune_00014~1~8270DLL Operator: VW

Data File: \\Talsvr05\chem\SM\TSMC5973.i\1C121227.b\C2122704.D
Spectrum: Avg. Scans 220-222 (6.29), Background Scan 217 (SUB)
Location of Maximum: 198.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	5011	146.00	308	207.00	1000	285.00	220
51.00	17528	147.00	639	208.00	404	290.00	82
52.00	1018	148.00	1284	210.00	342	291.00	106
61.00	84	149.00	282	211.00	293	292.00	67
62.00	266	150.00	165	212.00	116	293.00	166
63.00	483	151.00	158	215.00	351	294.00	54
69.00	15362	153.00	261	216.00	309	296.00	3815
74.00	1759	154.00	232	217.00	3157	297.00	495
75.00	2098	155.00	168	218.00	268	298.00	52
76.00	469	156.00	787	219.00	77	302.00	55
77.00	14334	157.00	11	221.00	1815	303.00	296
78.00	772	158.00	237	222.00	75	304.00	105
79.00	601	159.00	173	223.00	771	314.00	186
80.00	833	160.00	185	224.00	5986	315.00	302
81.00	491	161.00	447	225.00	1540	316.00	196
86.00	67	162.00	217	227.00	3201	321.00	172
87.00	248	164.00	62	228.00	382	322.00	64
88.00	54	165.00	58	229.00	629	323.00	1105
92.00	577	166.00	312	230.00	86	324.00	213
93.00	1481	167.00	94	231.00	232	327.00	119
94.00	226	168.00	1062	234.00	158	332.00	147
98.00	963	170.00	93	235.00	277	333.00	86
99.00	439	171.00	61	236.00	105	334.00	684
100.00	128	172.00	306	237.00	213	335.00	118
101.00	693	173.00	296	240.00	164	341.00	117
102.00	80	174.00	535	241.00	200	342.00	65
103.00	260	175.00	914	242.00	385	346.00	182
104.00	502	176.00	370	243.00	278	347.00	62
106.00	61	177.00	514	244.00	4706	352.00	402
107.00	5367	178.00	299	245.00	770	353.00	242
108.00	556	179.00	1689	246.00	1172	354.00	266
110.00	9625	180.00	790	247.00	287	355.00	102
111.00	851	181.00	524	249.00	117	365.00	1706
112.00	112	182.00	103	252.00	126	366.00	247
116.00	570	184.00	121	253.00	231	371.00	50
117.00	5145	185.00	560	255.00	26312	372.00	594
118.00	343	186.00	5947	256.00	3702	373.00	107
120.00	142	187.00	1633	257.00	453	383.00	193
122.00	172	188.00	220	258.00	1733	390.00	71
123.00	551	189.00	622	259.00	341	401.00	53

124.00	18	190.00	195	261.00	57	402.00	249
125.00	368	191.00	80	263.00	65	403.00	247
127.00	18016	192.00	498	264.00	108	404.00	107
128.00	1533	193.00	318	265.00	801	421.00	352
129.00	7410	194.00	85	270.00	70	422.00	197
130.00	439	196.00	1168	271.00	77	423.00	1864
131.00	86	197.00	224	272.00	118	424.00	398
134.00	297	198.00	39872	273.00	674	436.00	62
135.00	486	199.00	2541	274.00	1960	439.00	133
136.00	205	200.00	384	275.00	10565	441.00	5415
137.00	394	201.00	353	276.00	1627	442.00	34904
139.00	14	203.00	429	277.00	1071	443.00	6982
141.00	722	204.00	1505	278.00	203	444.00	686
142.00	486	205.00	3116	283.00	128	446.00	55
143.00	74	206.00	11862	284.00	55		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee
Job No.: 680-85785-2
SDG No.: 68085785-2
Client Sample ID:
Lab Sample ID: MB 640-98122/1-A
Matrix: Solid
Lab File ID: C2122611.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3550C
Date Extracted: 12/17/2012 16:21
Sample wt/vol: 00030.93(g)
Date Analyzed: 12/26/2012 16:05
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 98286
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.5	U	6.5	0.56
208-96-8	Acenaphthylene	6.5	U	6.5	0.51
120-12-7	Anthracene	6.5	U	6.5	0.64
56-55-3	Benzo[a]anthracene	6.5	U	6.5	0.60
50-32-8	Benzo[a]pyrene	6.5	U	6.5	0.66
205-99-2	Benzo[b]fluoranthene	6.5	U	6.5	0.91
191-24-2	Benzo[g,h,i]perylene	6.5	U	6.5	1.1
207-08-9	Benzo[k]fluoranthene	6.5	U	6.5	0.62
218-01-9	Chrysene	6.5	U	6.5	0.73
53-70-3	Dibenz(a,h)anthracene	6.5	U	6.5	0.63
206-44-0	Fluoranthene	6.5	U	6.5	0.58
86-73-7	Fluorene	6.5	U	6.5	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	6.5	U	6.5	1.1
90-12-0	1-Methylnaphthalene	6.5	U	6.5	0.51
91-57-6	2-Methylnaphthalene	6.5	U	6.5	0.50
91-20-3	Naphthalene	6.5	U	6.5	0.50
85-01-8	Phenanthrene	6.5	U	6.5	0.43
129-00-0	Pyrene	6.5	U	6.5	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	91		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122611.D
Lab Smp Id: MB 640-98122/1A Client Smp ID: MB 640-98122/1A
Inj Date : 26-DEC-2012 16:05
Operator : VW Inst ID: TSMC5973.i
Smp Info : MB 640-98122/1A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.292	3.303	(0.942)	241527	2.92092	97	
* 1 Naphthalene-d8	136	3.495	3.505	(1.000)	7684662	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	Compound Not Detected.						NO PEAK
4 1-Methylnaphthalene	142	Compound Not Detected.						NO PEAK
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	4308436	40.0000		
6 Acenaphthylene	152	Compound Not Detected.						NO PEAK
7 Acenaphthene	154	Compound Not Detected.						RT OFF
8 Fluorene	166	Compound Not Detected.						NO PEAK
* 9 Phenanthrene-d10	188	5.381	5.386	(1.000)	6799617	40.0000		
10 Phenanthrene	178	Compound Not Detected.						
11 Anthracene	178	Compound Not Detected.						NO PEAK
$ 12 o-Terphenyl	230	5.635	5.640	(1.047)	452993	3.65460	120	
13 Fluoranthene	202	Compound Not Detected.						

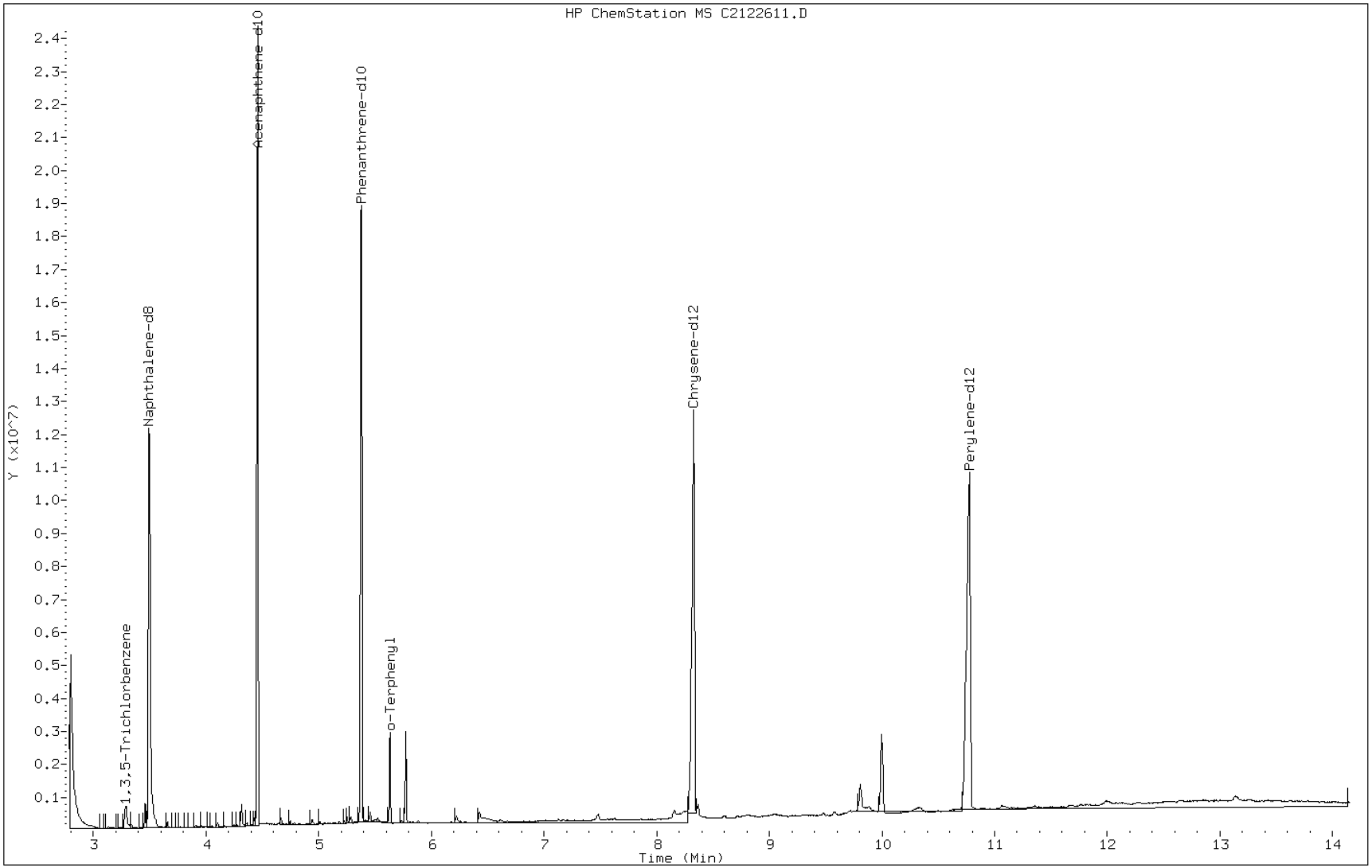
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.330	8.340	(1.000)	7388215	40.0000		
15 Pyrene	202	Compound Not Detected.						NO PEAK
16 Benzo(a)anthracene	228	Compound Not Detected.						RT OFF
17 Chrysene	228	Compound Not Detected.						RT OFF
* 18 Perylene-d12	264	10.776	10.781	(1.000)	8671408	40.0000		
19 Benzo(b)fluoranthene	252	Compound Not Detected.						
20 Benzo(k)fluoranthene	252	Compound Not Detected.						
21 Benzo(a)pyrene	252	Compound Not Detected.						NO PEAK
22 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
23 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
24 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Data File: C2122611.D

Date: 26-DEC-2012 16:05

Client ID: MB 640-98122/1A Instrument: TSMC5973.i

Sample Info: MB 640-98122/1A~98122~1~8270DLL Operator: VW



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: | Lab Sample ID: MB 640-98123/1-A

Matrix: Solid | Lab File ID: A2122619.D

Analysis Method: 8270D LL | Date Collected:

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.65(g) | Date Analyzed: 12/26/2012 18:31

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

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

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

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.6	U	6.6	0.57
208-96-8	Acenaphthylene	6.6	U	6.6	0.52
120-12-7	Anthracene	6.6	U	6.6	0.65
56-55-3	Benzo[a]anthracene	9.11		6.6	0.61
50-32-8	Benzo[a]pyrene	12.7		6.6	0.67
205-99-2	Benzo[b]fluoranthene	16.3		6.6	0.92
191-24-2	Benzo[g,h,i]perylene	7.72		6.6	1.1
207-08-9	Benzo[k]fluoranthene	6.96		6.6	0.63
218-01-9	Chrysene	9.23		6.6	0.73
53-70-3	Dibenz(a,h)anthracene	2.51	J	6.6	0.64
206-44-0	Fluoranthene	5.19	J	6.6	0.59
86-73-7	Fluorene	6.6	U	6.6	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	8.74		6.6	1.1
90-12-0	1-Methylnaphthalene	6.6	U	6.6	0.52
91-57-6	2-Methylnaphthalene	6.6	U	6.6	0.51
91-20-3	Naphthalene	6.6	U	6.6	0.51
85-01-8	Phenanthrene	6.6	U	6.6	0.43
129-00-0	Pyrene	4.83	J	6.6	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	88		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122619.D
Lab Smp Id: MB 640-98123/1A Client Smp ID: MB 640-98123/1A
Inj Date : 26-DEC-2012 18:31
Operator : VW Inst ID: TSMA5973.i
Smp Info : MB 640-98123/1A~98123~1~8270D/625
Misc Info : 2A121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 05:51 vwelch Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

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	30.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 1 Naphthalene-d8	136	3.700	3.711	(1.000)	1465432	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	Compound Not Detected.						NO PEAK
4 1-Methylnaphthalene	142	Compound Not Detected.						NO PEAK
* 5 Acenaphthene-d10	164	4.663	4.663	(1.000)	783671	40.0000		
6 Acenaphthylene	152	Compound Not Detected.						NO PEAK
7 Acenaphthene	153	Compound Not Detected.						
8 Fluorene	166	Compound Not Detected.						NO PEAK
* 9 Phenanthrene-d10	188	5.632	5.637	(1.000)	1191100	40.0000		
10 Phenanthrene	176	Compound Not Detected.						
11 Anthracene	178	Compound Not Detected.						NO PEAK
$ 12 o-Terphenyl	230	5.903	5.909	(1.048)	88260	3.50624	120	
13 Fluoranthene	202	6.744	6.749	(1.197)	7521	0.15905	5.3(a)	
* 14 Chrysene-d12	240	8.742	8.747	(1.000)	1426644	40.0000		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.005	7.015	(0.801)	7197	0.14802	4.9(a)	
16 Benzo(a)anthracene	226	8.696	8.711	(0.995)	3648	0.27933	9.3	
17 Chrysene	228	8.767	8.783	(1.003)	12513	0.28300	9.4	
* 18 Perylene-d12	264	11.237	11.252	(1.000)	1266535	40.0000		
19 Benzo(b)fluoranthene	252	10.540	10.555	(0.938)	19494	0.49910	17	
20 Benzo(k)fluoranthene	252	10.586	10.607	(0.942)	8507	0.21326	7.1	
21 Benzo(a)pyrene	252	11.099	11.119	(0.988)	13732	0.38911	13	
22 Indeno(1,2,3-cd)pyrene	276	12.979	13.010	(1.155)	9526	0.26784	8.9	
23 Dibenzo(a,h)anthracene	278	13.020	13.051	(1.159)	2767	0.07679	2.6(a)	
24 Benzo(g,h,i)perylene	276	13.430	13.460	(1.195)	8340	0.23670	7.9	

QC Flag Legend

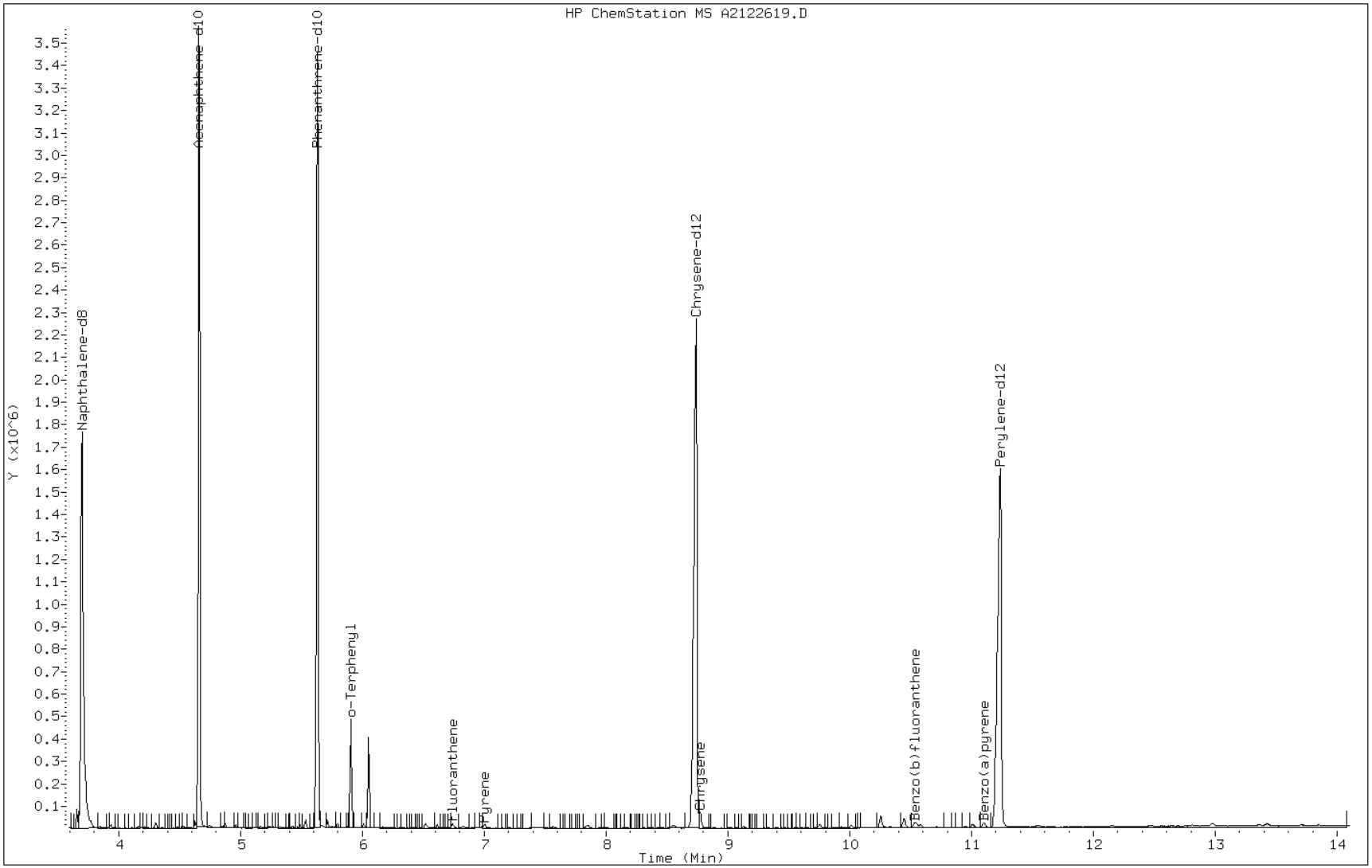
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW



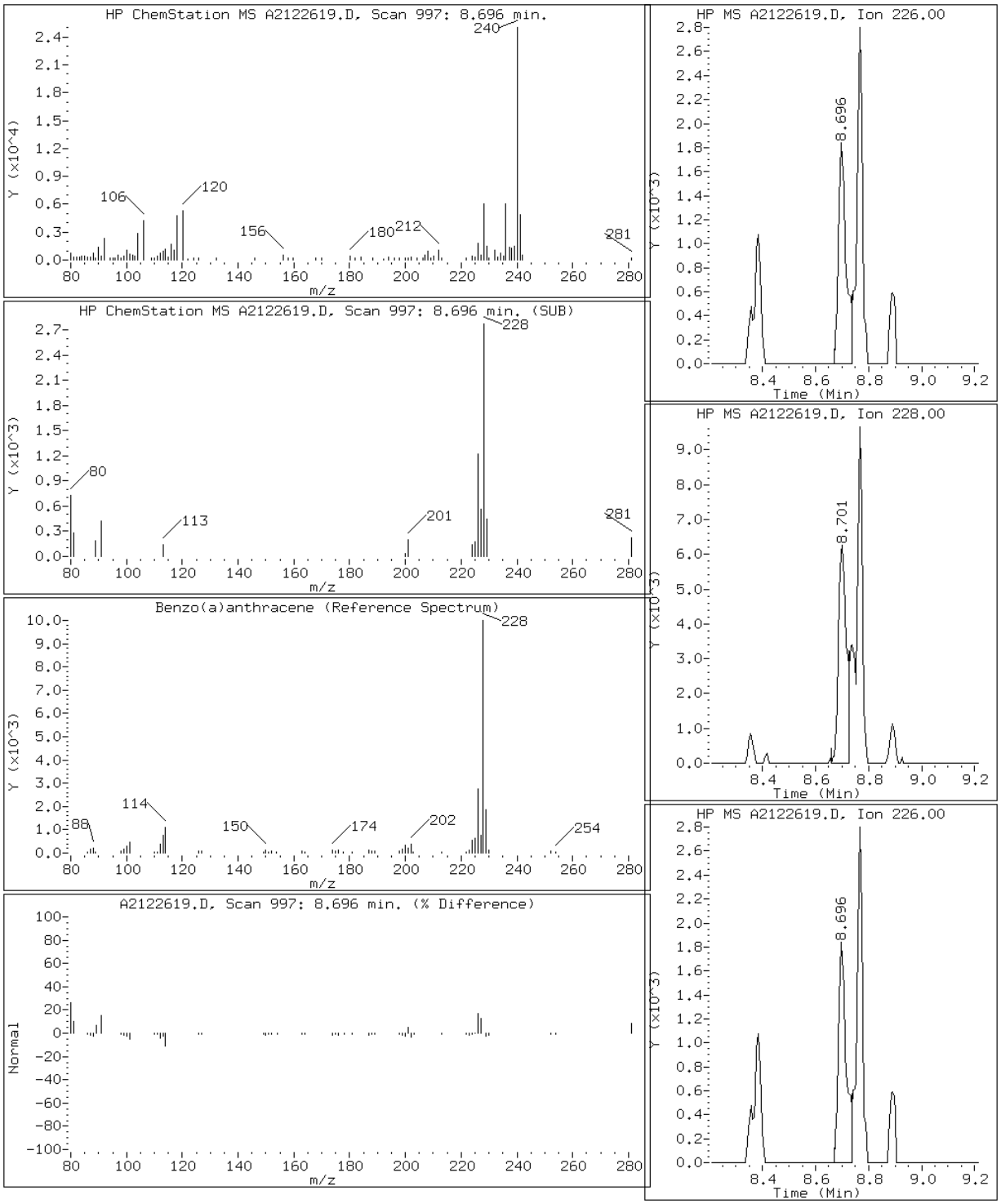
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



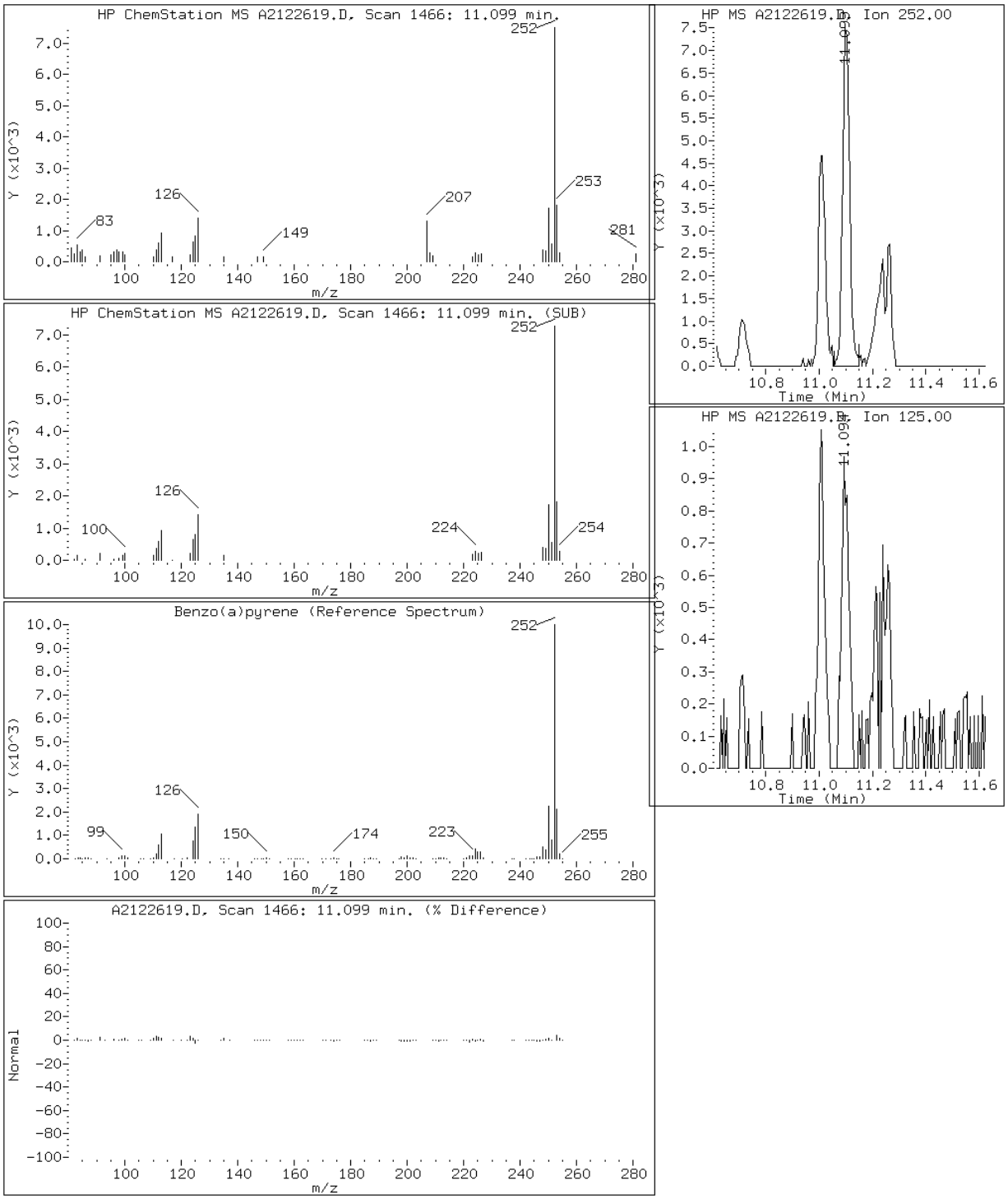
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



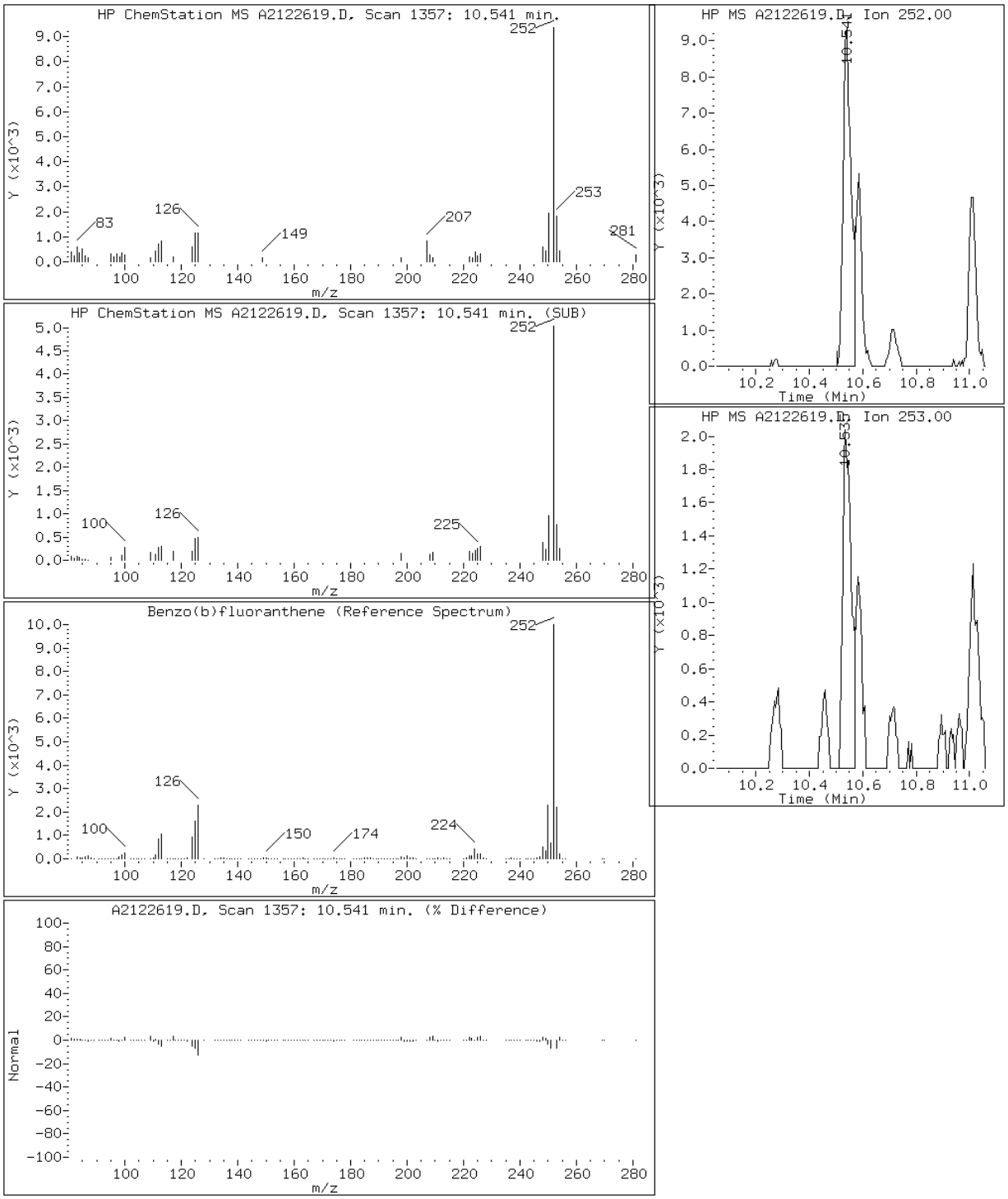
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene



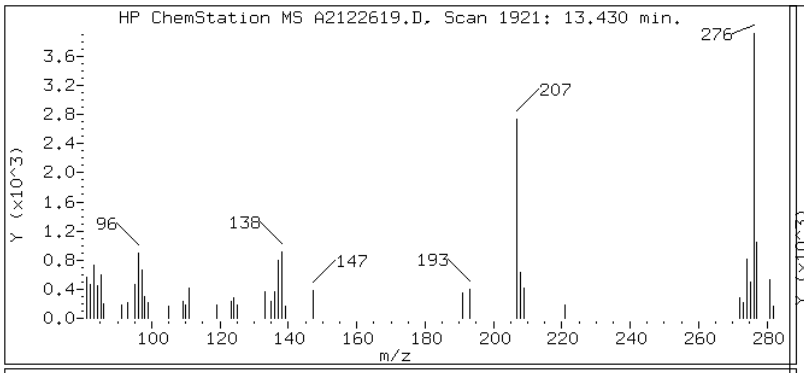
Data File: A2122619.D

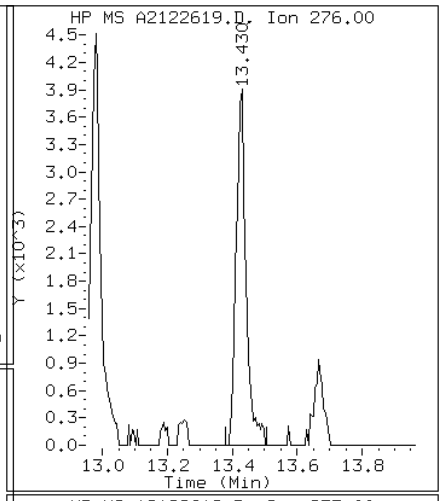
Date: 26-DEC-2012 18:31

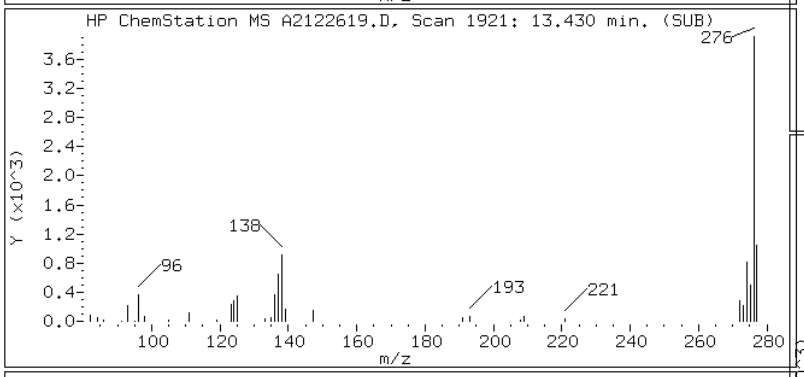
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

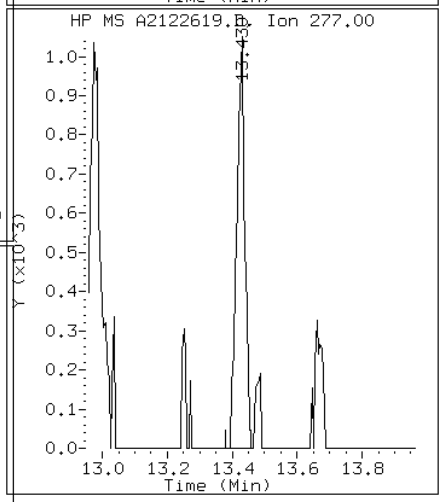
Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

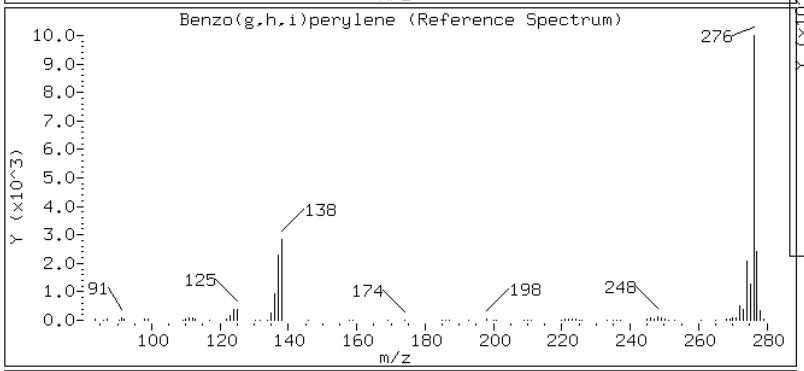
24 Benzo(g,h,i)perylene

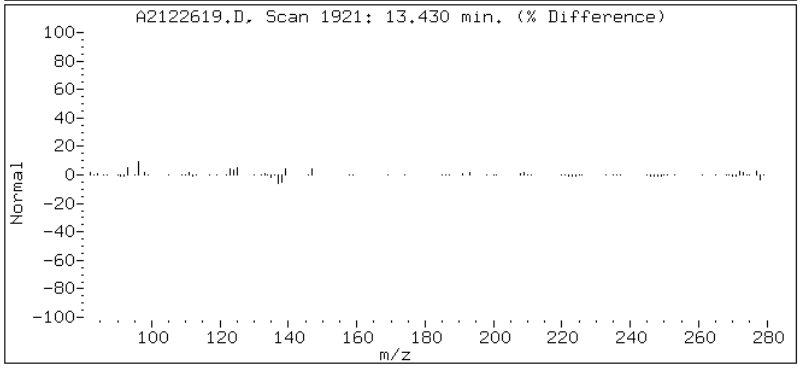












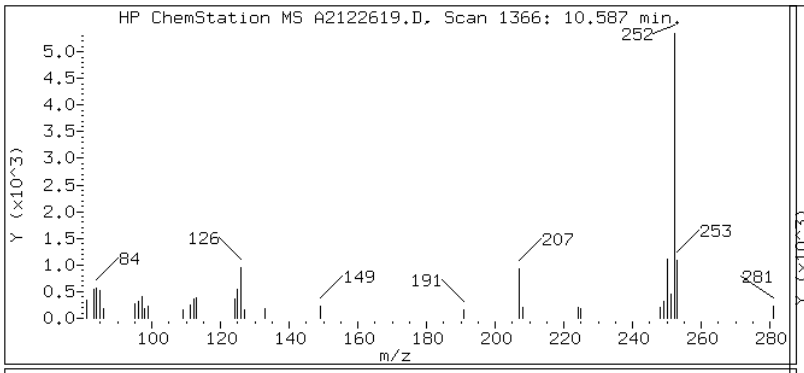
Data File: A2122619.D

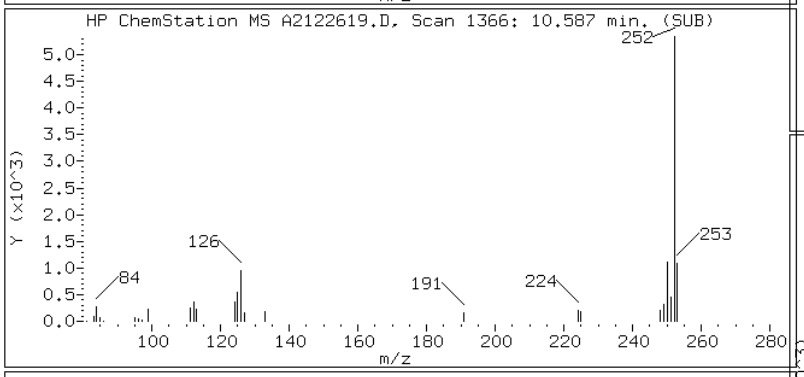
Date: 26-DEC-2012 18:31

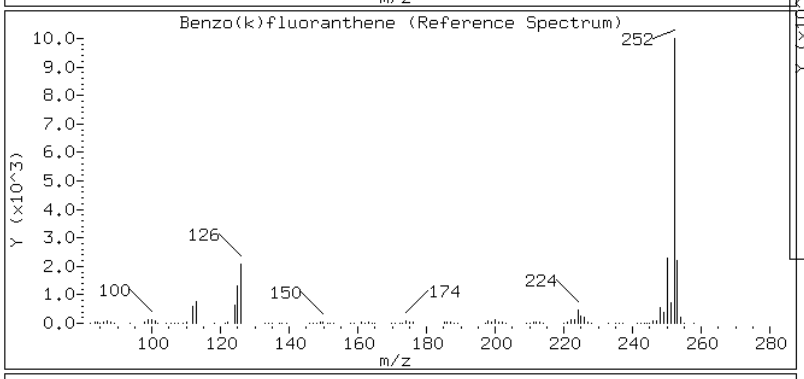
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

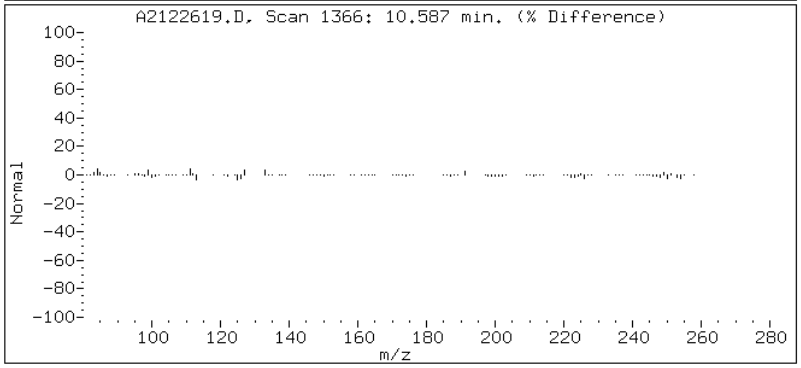
Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

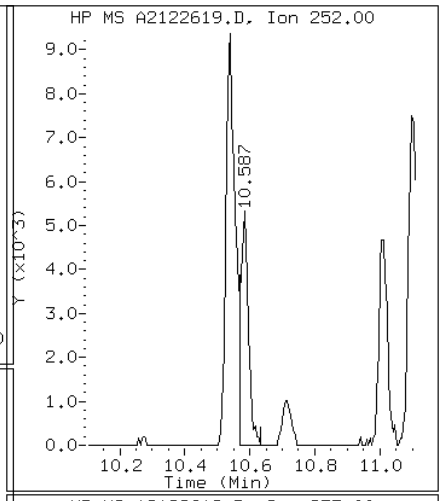
20 Benzo(k)fluoranthene

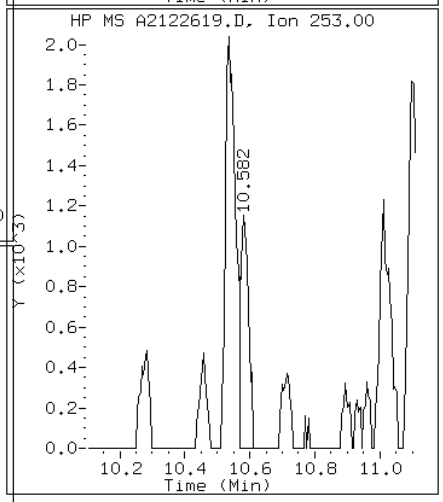












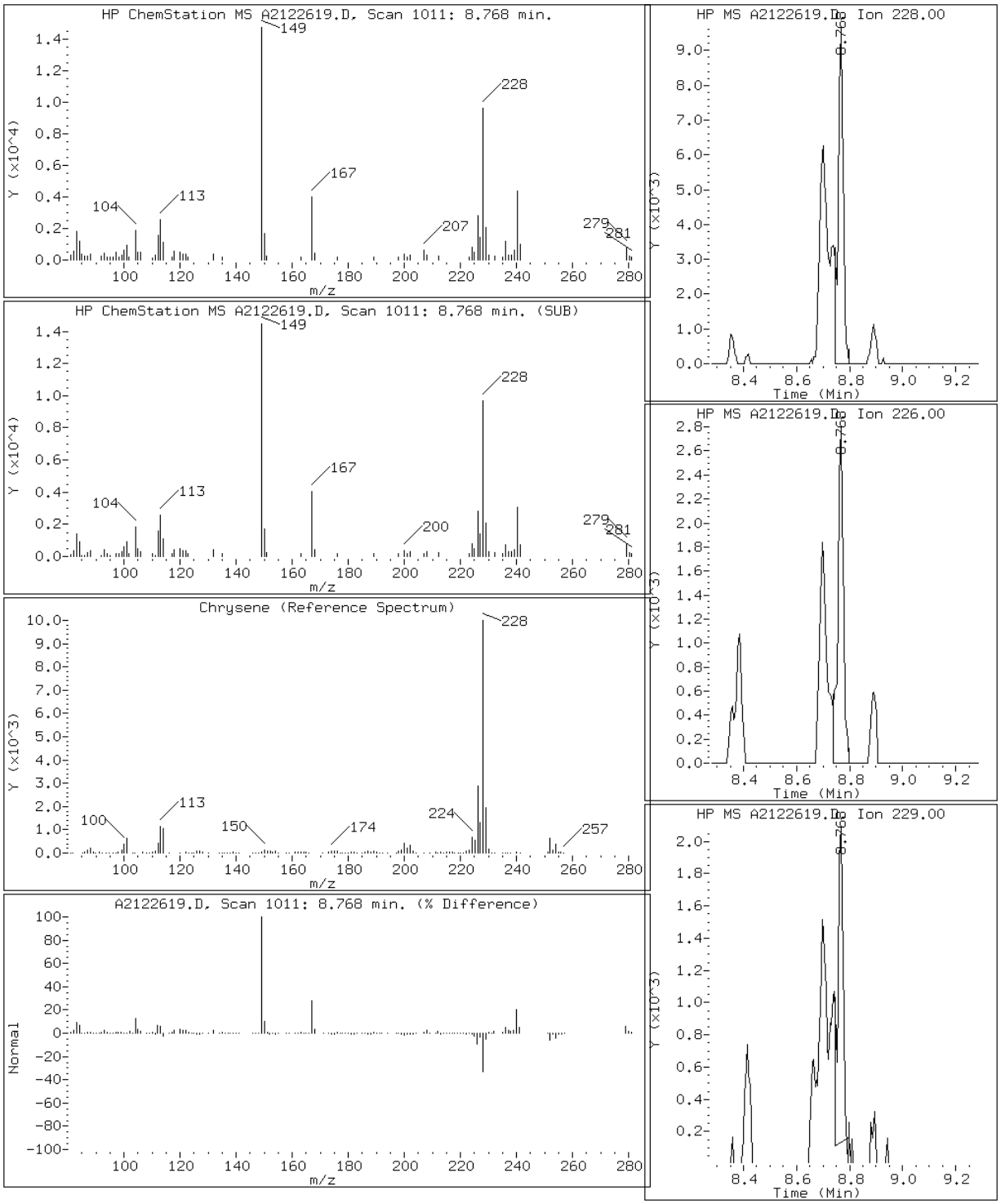
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

17 Chrysene



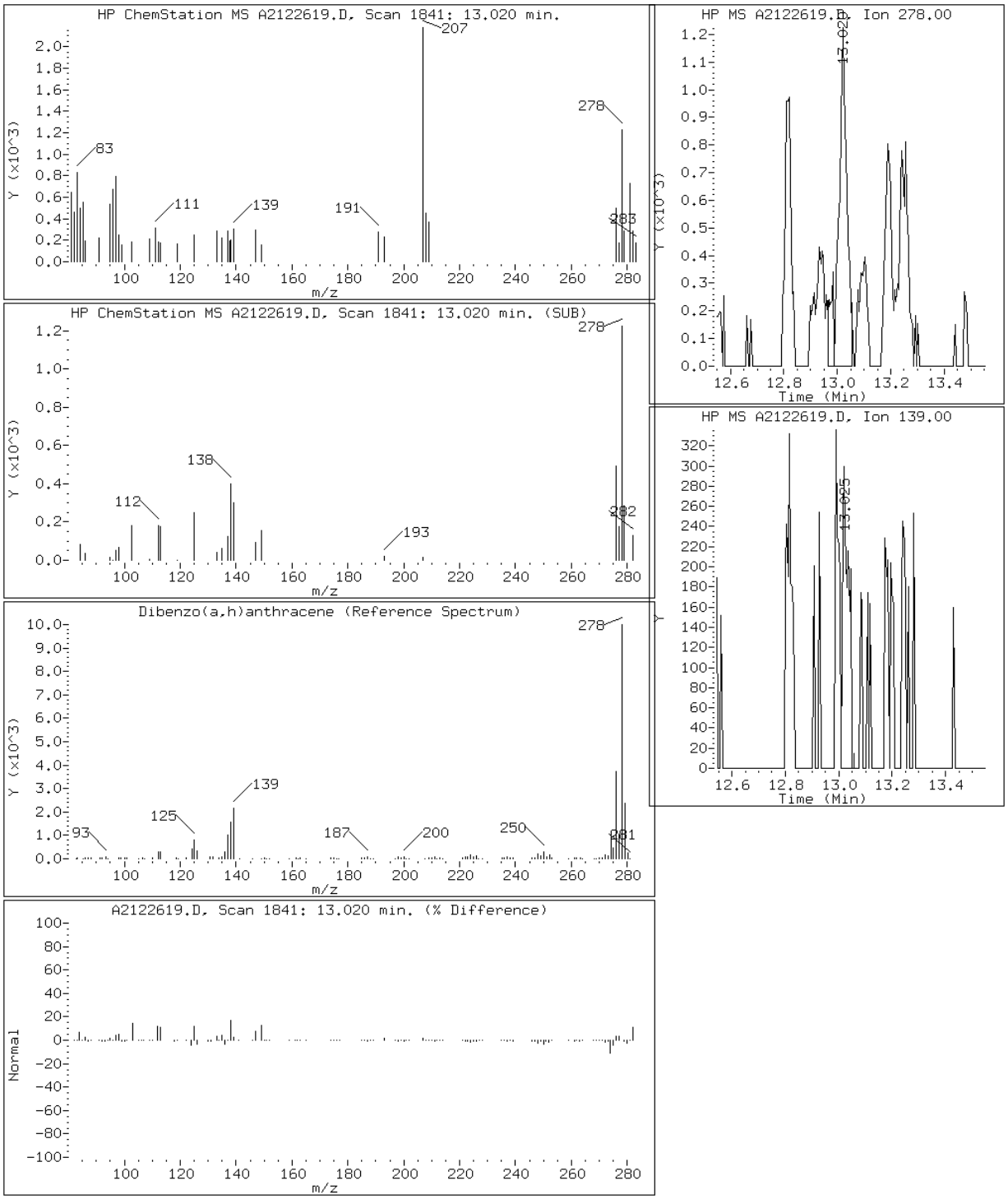
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene



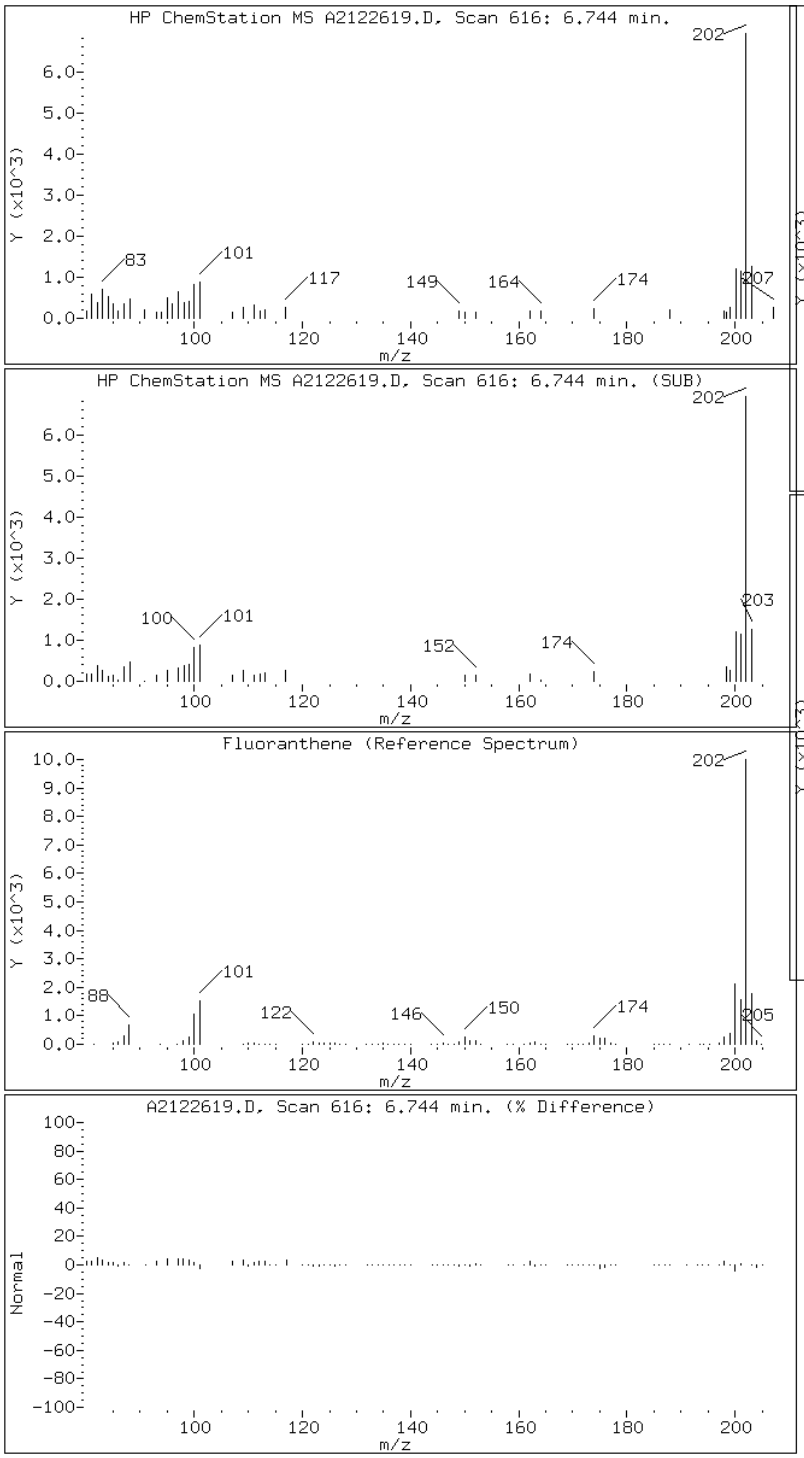
Data File: A2122619.D

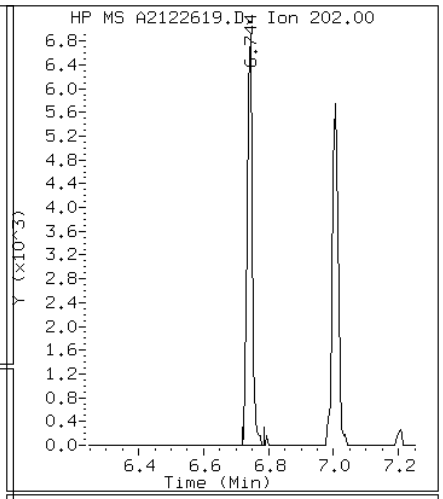
Date: 26-DEC-2012 18:31

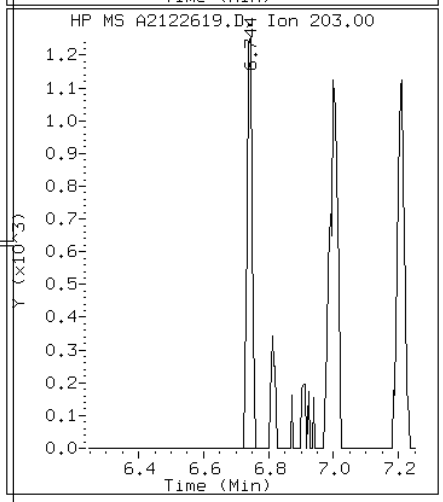
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

13 Fluoranthene







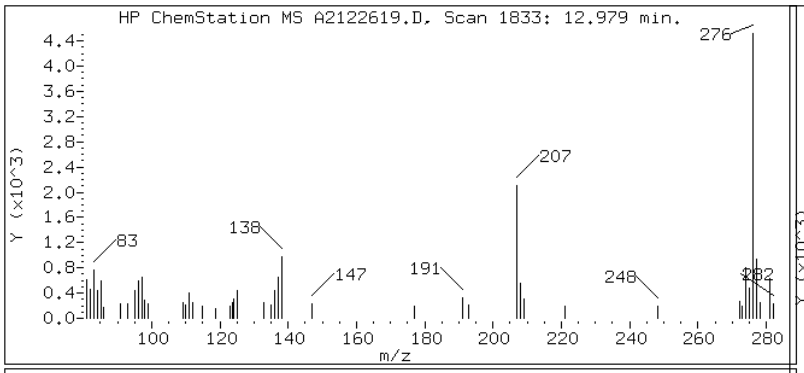
Data File: A2122619.D

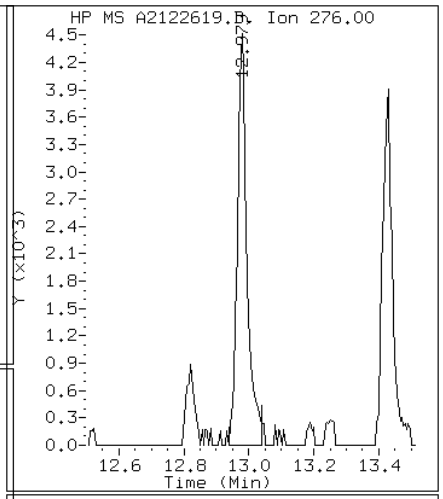
Date: 26-DEC-2012 18:31

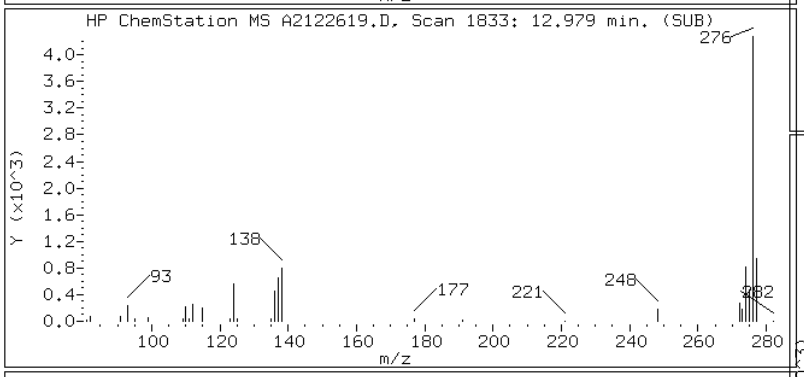
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

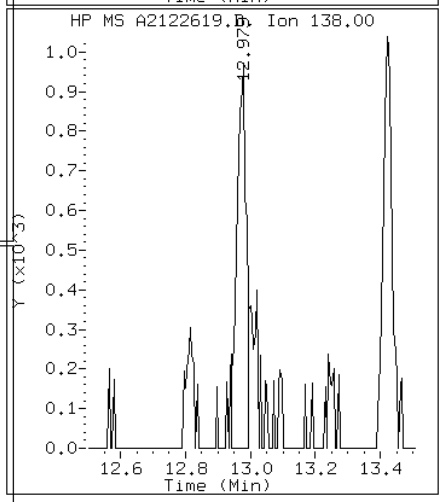
Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

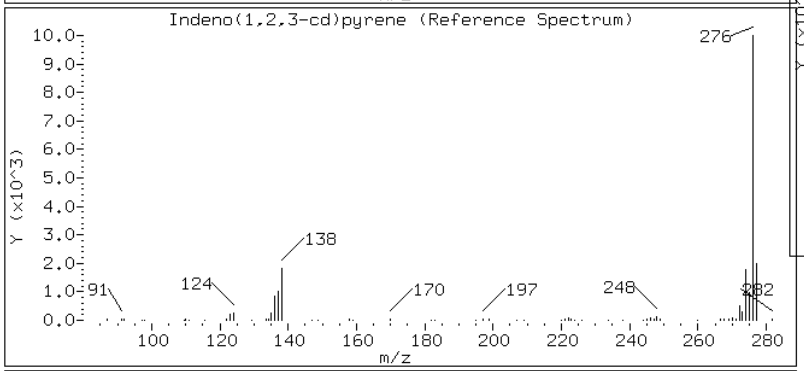
22 Indeno(1,2,3-cd)pyrene

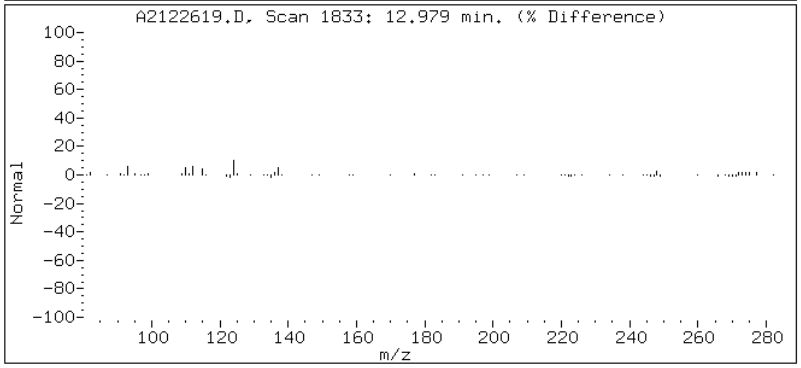












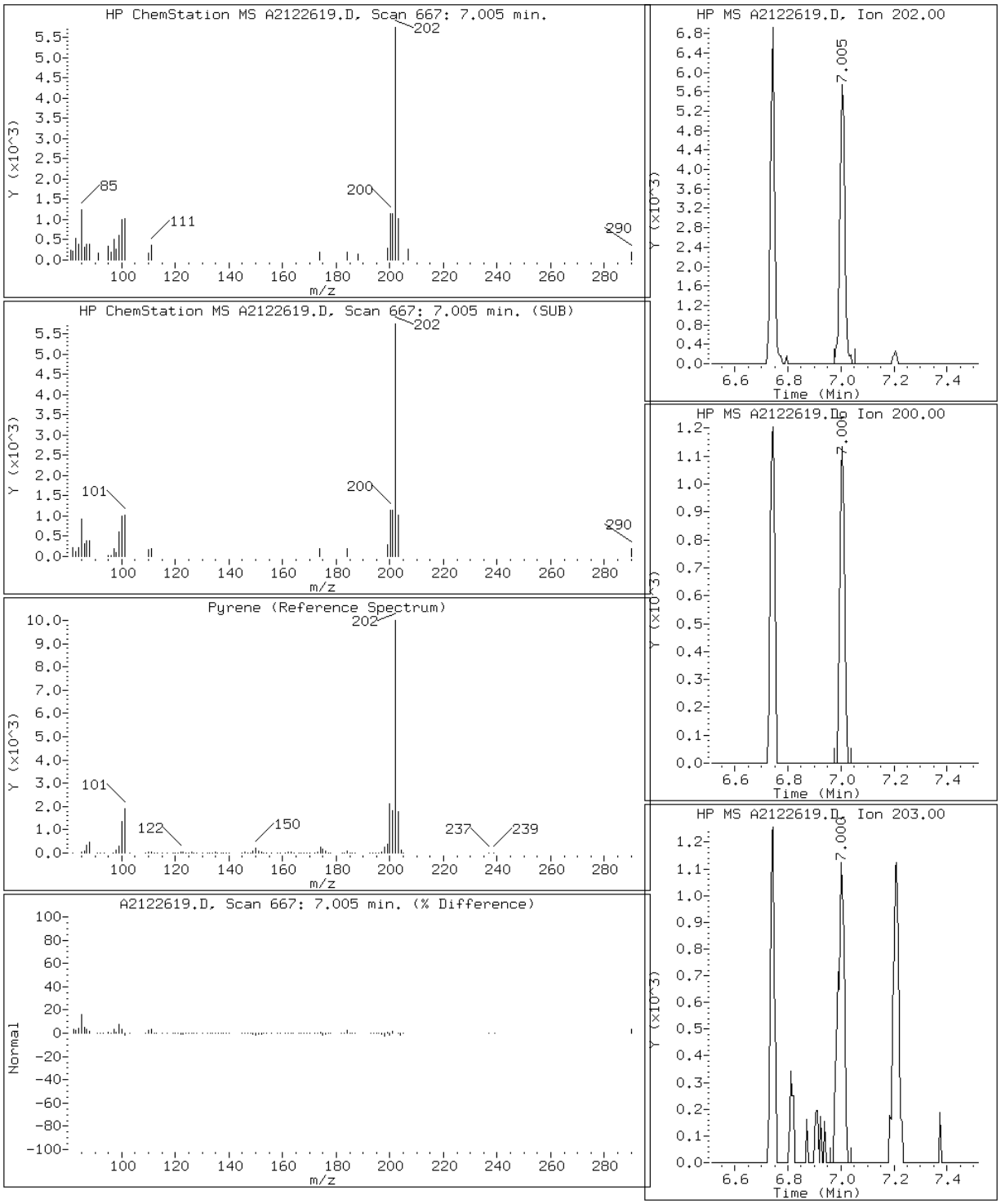
Data File: A2122619.D

Date: 26-DEC-2012 18:31

Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee
Job No.: 680-85785-2
SDG No.: 68085785-2
Client Sample ID:
Lab Sample ID: LCS 640-98122/2-A
Matrix: Solid
Lab File ID: C2122612.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3550C
Date Extracted: 12/17/2012 16:21
Sample wt/vol: 00030.30(g)
Date Analyzed: 12/26/2012 16:24
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 98286
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	103		6.6	0.57
208-96-8	Acenaphthylene	99.2		6.6	0.52
120-12-7	Anthracene	116		6.6	0.65
56-55-3	Benzo[a]anthracene	107		6.6	0.61
50-32-8	Benzo[a]pyrene	116		6.6	0.67
205-99-2	Benzo[b]fluoranthene	105		6.6	0.93
191-24-2	Benzo[g,h,i]perylene	72.7		6.6	1.1
207-08-9	Benzo[k]fluoranthene	110		6.6	0.63
218-01-9	Chrysene	111		6.6	0.74
53-70-3	Dibenz(a,h)anthracene	97.8		6.6	0.64
206-44-0	Fluoranthene	115		6.6	0.59
86-73-7	Fluorene	103		6.6	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	98.3		6.6	1.1
90-12-0	1-Methylnaphthalene	101		6.6	0.52
91-57-6	2-Methylnaphthalene	106		6.6	0.51
91-20-3	Naphthalene	97.5		6.6	0.51
85-01-8	Phenanthrene	111		6.6	0.44
129-00-0	Pyrene	105		6.6	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	90		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122612.D
Lab Smp Id: LCS 640-98122/2A Client Smp ID: LCS 640-98122/2A
Inj Date : 26-DEC-2012 16:24
Operator : VW Inst ID: TSMC5973.i
Smp Info : LCS 640-98122/2A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.287	3.303	(0.941)	218258	2.85161	95	
* 1 Naphthalene-d8	136	3.494	3.505	(1.000)	7113083	40.0000		
2 Naphthalene	128	3.510	3.515	(1.004)	513658	2.95495	98	
3 2-Methylnaphthalene	142	3.878	3.883	(1.110)	425194	3.22313	110	
4 1-Methylnaphthalene	142	3.930	3.935	(1.125)	394053	3.04520	100	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3993058	40.0000		
6 Acenaphthylene	152	4.375	4.381	(0.981)	644744	3.00487	100	
7 Acenaphthene	154	4.474	4.479	(1.003)	350594	3.12312	100	
8 Fluorene	166	4.764	4.774	(1.069)	468406	3.12566	100	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6488799	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	610597	3.36439	110	
11 Anthracene	178	5.427	5.438	(1.010)	683977	3.50852	120	
$ 12 o-Terphenyl	230	5.635	5.640	(1.048)	423691	3.58158	120	
13 Fluoranthene	202	6.422	6.433	(1.195)	846472	3.49773	120	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.330	8.340	(1.000)	7146706	40.0000		
15 Pyrene	202	6.671	6.682	(0.801)	851757	3.18120	110	
16 Benzo(a)anthracene	228	8.298	8.309	(0.996)	797517	3.23993	110	
17 Chrysene	228	8.355	8.371	(1.003)	713554	3.36505	110	
* 18 Perylene-d12	264	10.776	10.781	(1.000)	8454711	40.0000		
19 Benzo(b)fluoranthene	252	10.086	10.102	(0.936)	859342	3.19061	110	
20 Benzo(k)fluoranthene	252	10.133	10.154	(0.940)	873254	3.33820	110	
21 Benzo(a)pyrene	252	10.641	10.656	(0.987)	840202	3.50693	120	
22 Indeno(1,2,3-cd)pyrene	276	12.486	12.512	(1.159)	760145	2.97701	99(H)	MSID
23 Dibenzo(a,h)anthracene	278	12.527	12.548	(1.163)	725798	2.96261	99	
24 Benzo(g,h,i)perylene	276	12.890	12.921	(1.196)	555188	2.20431	73	

QC Flag Legend

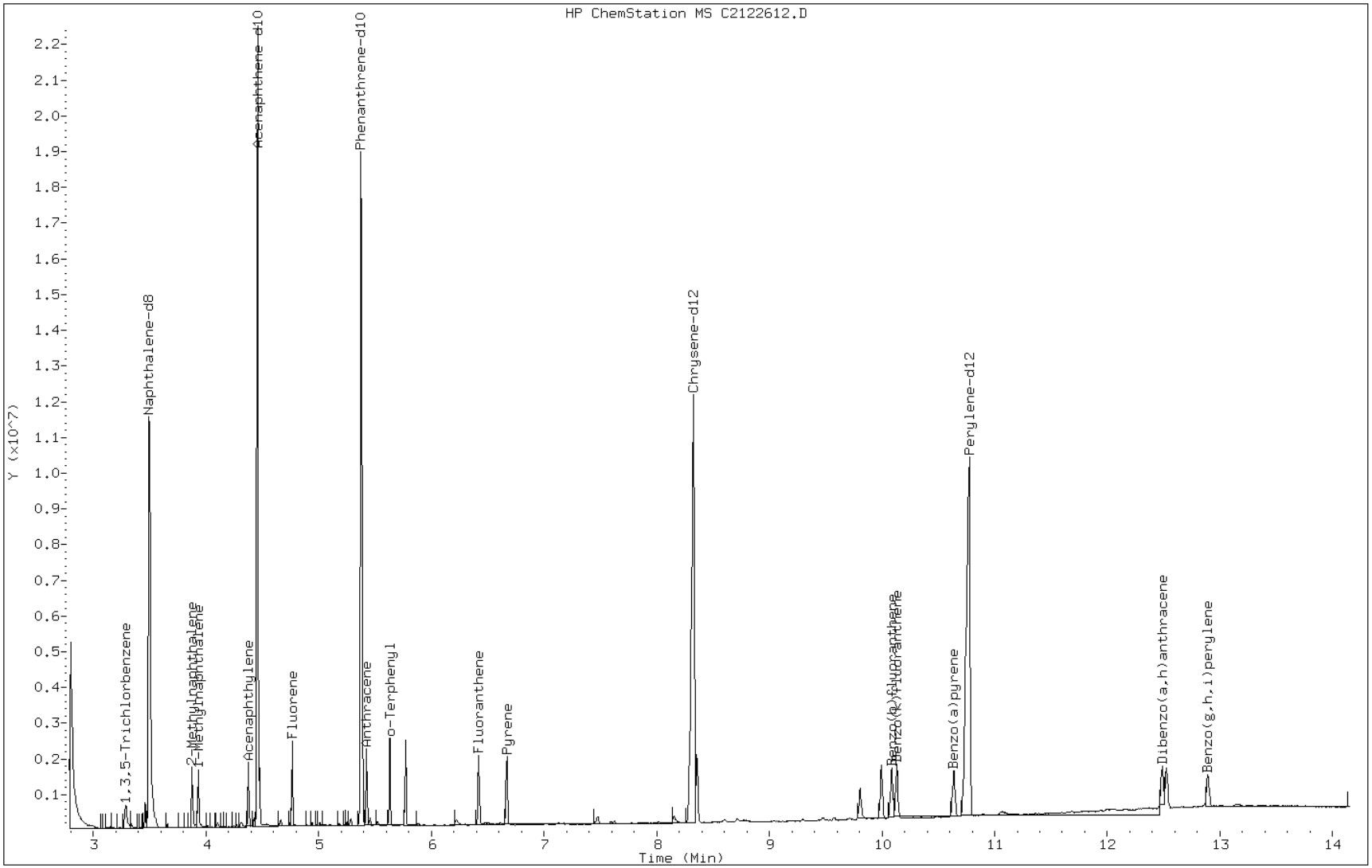
H - Operator selected an alternate compound hit.

Data File: C2122612.D

Date: 26-DEC-2012 16:24

Client ID: LCS 640-98122/2A Instrument: TSMC5973.i

Sample Info: LCS 640-98122/2A~98122~1~8270DLL Operator: VW



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee
Job No.: 680-85785-2
SDG No.: 68085785-2
Client Sample ID:
Lab Sample ID: LCS 640-98123/2-A
Matrix: Solid
Lab File ID: A2122620.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3550C
Date Extracted: 12/17/2012 16:32
Sample wt/vol: 00030.83(g)
Date Analyzed: 12/26/2012 18:50
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 98325
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	87.9		6.5	0.56
208-96-8	Acenaphthylene	91.3		6.5	0.52
120-12-7	Anthracene	102		6.5	0.64
56-55-3	Benzo[a]anthracene	105		6.5	0.60
50-32-8	Benzo[a]pyrene	143		6.5	0.66
205-99-2	Benzo[b]fluoranthene	137		6.5	0.91
191-24-2	Benzo[g,h,i]perylene	118		6.5	1.1
207-08-9	Benzo[k]fluoranthene	132		6.5	0.62
218-01-9	Chrysene	99.7		6.5	0.73
53-70-3	Dibenz(a,h)anthracene	131		6.5	0.63
206-44-0	Fluoranthene	110		6.5	0.58
86-73-7	Fluorene	96.3		6.5	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	138		6.5	1.1
90-12-0	1-Methylnaphthalene	87.3		6.5	0.52
91-57-6	2-Methylnaphthalene	91.8		6.5	0.51
91-20-3	Naphthalene	87.0		6.5	0.51
85-01-8	Phenanthrene	99.0		6.5	0.43
129-00-0	Pyrene	108		6.5	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	82		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122620.D
Lab Smp Id: LCS 640-98123/2A Client Smp ID: LCS 640-98123/2A
Inj Date : 26-DEC-2012 18:50
Operator : VW Inst ID: TSMA5973.i
Smp Info : LCS 640-98123/2A~98123~1~8270D/625
Misc Info : 2A121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\sm-8270DpahISTD-m.m
Meth Date : 27-Dec-2012 05:51 vwelch Quant Type: ISTD
Cal Date : 26-DEC-2012 16:42 Cal File: A2122615.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.sub
Target Version: 4.14
Processing Host: TALSM03

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	30.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 1 Naphthalene-d8	136	3.701	3.711	(1.000)	1536550	40.0000		
2 Naphthalene	128	3.711	3.721	(1.003)	116141	2.68358	89	
3 2-Methylnaphthalene	142	4.075	4.079	(1.101)	77425	2.83081	94	
4 1-Methylnaphthalene	142	4.131	4.136	(1.116)	76185	2.69162	90	
* 5 Acenaphthene-d10	164	4.664	4.663	(1.000)	813623	40.0000		
6 Acenaphthylene	152	4.582	4.587	(0.982)	122763	2.81540	94	
7 Acenaphthene	153	4.680	4.684	(1.003)	71219	2.70978	90	
8 Fluorene	166	4.982	4.986	(1.068)	90860	2.96775	99	
* 9 Phenanthrene-d10	188	5.633	5.637	(1.000)	1242591	40.0000		
10 Phenanthrene	176	5.648	5.652	(1.003)	24695	3.05160	100	
11 Anthracene	178	5.684	5.688	(1.009)	133226	3.13783	100	
$ 12 o-Terphenyl	230	5.904	5.909	(1.048)	86443	3.29175	110	
13 Fluoranthene	202	6.739	6.749	(1.196)	166681	3.37889	110	
* 14 Chrysene-d12	240	8.742	8.747	(1.000)	1482712	40.0000		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.006	7.015	(0.801)	168398	3.33235	110	
16 Benzo(a)anthracene	226	8.702	8.711	(0.995)	43807	3.24286	110	
17 Chrysene	228	8.773	8.783	(1.004)	141246	3.07370	100	
* 18 Perylene-d12	264	11.238	11.252	(1.000)	1332904	40.0000		
19 Benzo(b)fluoranthene	252	10.541	10.555	(0.938)	174114	4.23584	140	
20 Benzo(k)fluoranthene	252	10.592	10.607	(0.943)	171489	4.08491	140	
21 Benzo(a)pyrene	252	11.104	11.119	(0.988)	164046	4.41691	150(R)	
22 Indeno(1,2,3-cd)pyrene	276	12.985	13.010	(1.155)	158705	4.24006	140	
23 Dibenzo(a,h)anthracene	278	13.031	13.051	(1.160)	153563	4.04958	130	
24 Benzo(g,h,i)perylene	276	13.430	13.460	(1.195)	135270	3.64791	120	

QC Flag Legend

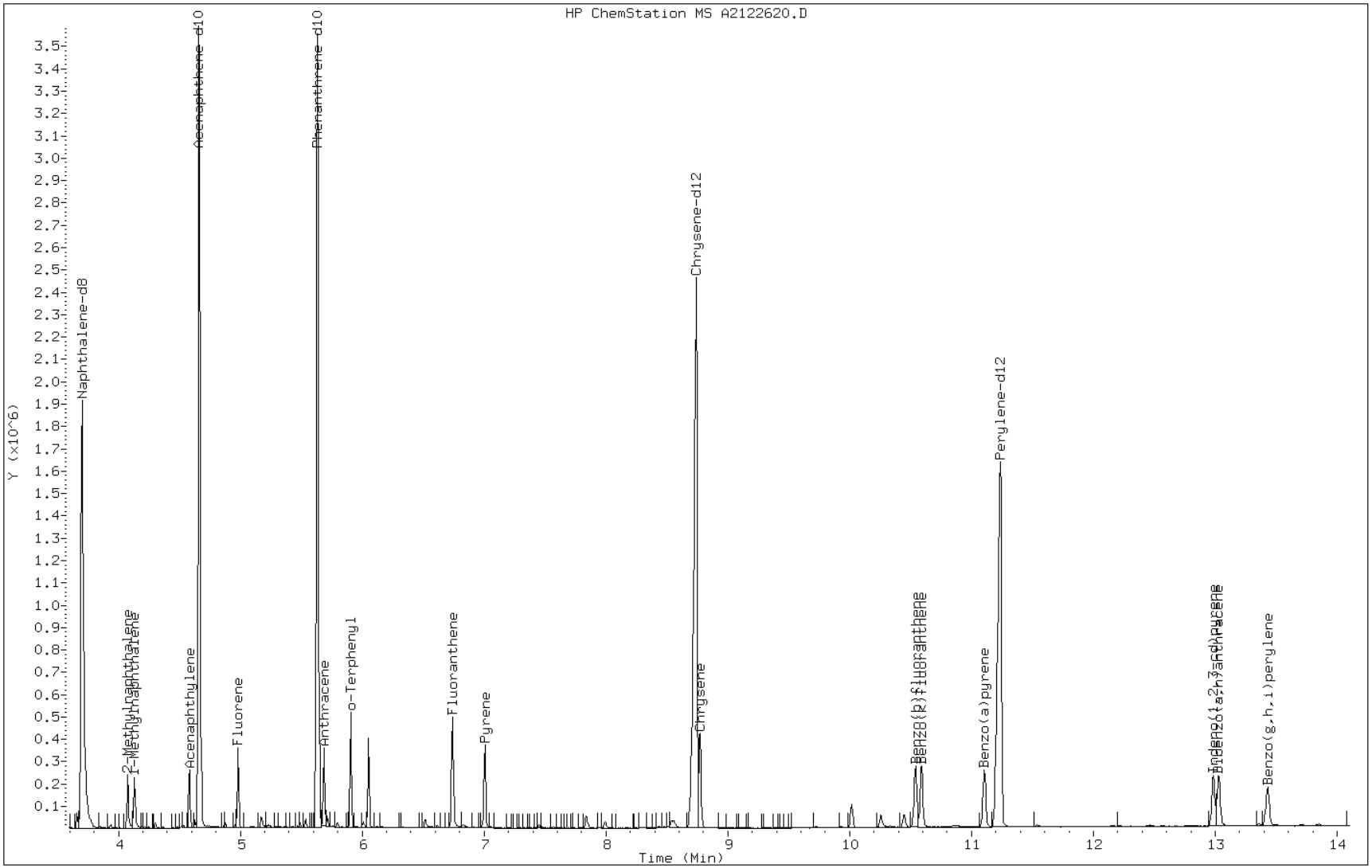
R - Spike/Surrogate failed recovery limits.

Data File: A2122620.D

Date: 26-DEC-2012 18:50

Client ID: LCS 640-98123/2A Instrument: TSMA5973.i

Sample Info: LCS 640-98123/2A~98123~1~8270D/625 Operator: VW



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee
Job No.: 680-85785-2
SDG No.: 68085785-2
Client Sample ID:
Lab Sample ID: LCSD 640-98122/3-A
Matrix: Solid
Lab File ID: C2122613.D
Analysis Method: 8270D LL
Date Collected:
Extract. Method: 3550C
Date Extracted: 12/17/2012 16:21
Sample wt/vol: 00030.64(g)
Date Analyzed: 12/26/2012 16:43
Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 98286
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99.1		6.6	0.57
208-96-8	Acenaphthylene	95.1		6.6	0.52
120-12-7	Anthracene	110		6.6	0.65
56-55-3	Benzo[a]anthracene	109		6.6	0.61
50-32-8	Benzo[a]pyrene	117		6.6	0.67
205-99-2	Benzo[b]fluoranthene	109		6.6	0.92
191-24-2	Benzo[g,h,i]perylene	73.2		6.6	1.1
207-08-9	Benzo[k]fluoranthene	112		6.6	0.63
218-01-9	Chrysene	111		6.6	0.73
53-70-3	Dibenz(a,h)anthracene	99.0		6.6	0.64
206-44-0	Fluoranthene	114		6.6	0.59
86-73-7	Fluorene	99.3		6.6	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	99.2		6.6	1.1
90-12-0	1-Methylnaphthalene	95.7		6.6	0.52
91-57-6	2-Methylnaphthalene	98.2		6.6	0.51
91-20-3	Naphthalene	90.6		6.6	0.51
85-01-8	Phenanthrene	110		6.6	0.43
129-00-0	Pyrene	103		6.6	0.51

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	91		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122613.D
Lab Smp Id: LCSD 640-98122/3A Client Smp ID: LCSD 640-98122/3A
Inj Date : 26-DEC-2012 16:43
Operator : VW Inst ID: TSMC5973.i
Smp Info : LCSD 640-98122/3A~98122~1~8270DLL
Misc Info : 1C121226;;1273718
Comment : Tallahassee
Method : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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	30.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	3.293	3.303	(0.941)	225092	2.84208	95	
* 1 Naphthalene-d8	136	3.500	3.505	(1.000)	7360413	40.0000		
2 Naphthalene	128	3.510	3.515	(1.003)	499497	2.77693	92	
3 2-Methylnaphthalene	142	3.878	3.883	(1.108)	410857	3.00979	100	
4 1-Methylnaphthalene	142	3.930	3.935	(1.123)	392500	2.93128	98	
* 5 Acenaphthene-d10	164	4.459	4.464	(1.000)	4157867	40.0000		
6 Acenaphthylene	152	4.376	4.381	(0.981)	650939	2.91349	97	
7 Acenaphthene	154	4.474	4.479	(1.003)	355064	3.03757	100	
8 Fluorene	166	4.764	4.774	(1.069)	474678	3.04196	100	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6750927	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	634529	3.36046	110	
11 Anthracene	178	5.428	5.438	(1.010)	684232	3.37306	110	
$ 12 o-Terphenyl	230	5.630	5.640	(1.047)	447780	3.63852	120	
13 Fluoranthene	202	6.417	6.433	(1.194)	881787	3.50218	120	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.330	8.340	(1.000)	7512197	40.0000		
15 Pyrene	202	6.671	6.682	(0.801)	887984	3.15514	100	
16 Benzo(a)anthracene	228	8.299	8.309	(0.996)	860334	3.32624	110	
17 Chrysene	228	8.356	8.371	(1.003)	757237	3.39746	110	
* 18 Perylene-d12	264	10.776	10.781	(1.000)	8810630	40.0000		
19 Benzo(b)fluoranthene	252	10.086	10.102	(0.936)	935150	3.33181	110	
20 Benzo(k)fluoranthene	252	10.133	10.154	(0.940)	931308	3.41661	110	
21 Benzo(a)pyrene	252	10.636	10.656	(0.987)	897915	3.59701	120	
22 Indeno(1,2,3-cd)pyrene	276	12.486	12.512	(1.159)	809071	3.04062	100(H)	MSID
23 Dibenzo(a,h)anthracene	278	12.522	12.548	(1.162)	774239	3.03308	100	
24 Benzo(g,h,i)perylene	276	12.890	12.921	(1.196)	588413	2.24220	75	

QC Flag Legend

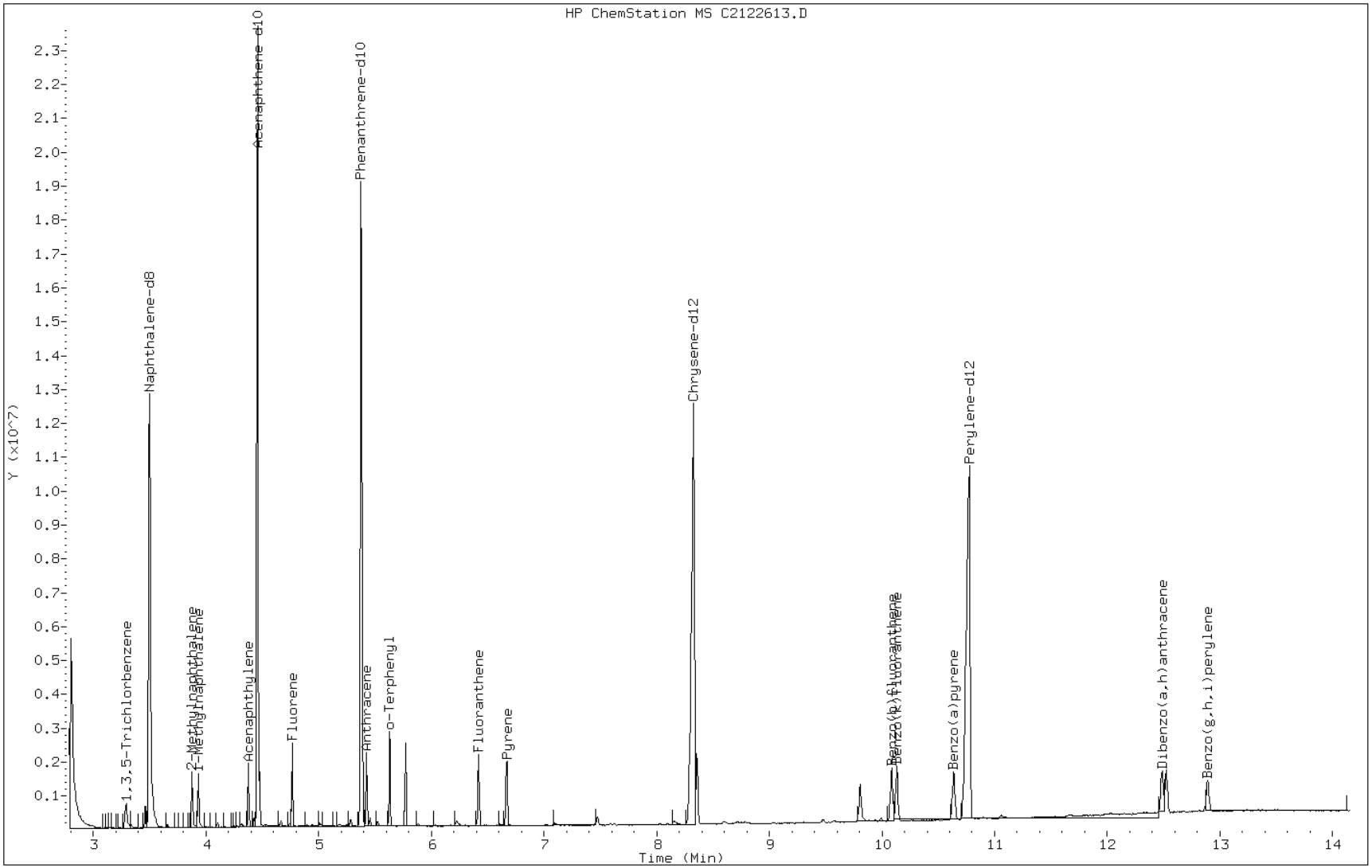
H - Operator selected an alternate compound hit.

Data File: C2122613.D

Date: 26-DEC-2012 16:43

Client ID: LCSD 640-98122/3A Instrument: TSMC5973.i

Sample Info: LCSD 640-98122/3A~98122~1~8270DLL Operator: VW



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511AB-GS MS | Lab Sample ID: 680-85785-29 MS

Matrix: Solid | Lab File ID: C2122618.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:24

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.33(g) | Date Analyzed: 12/26/2012 18:27

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1000

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

% Moisture: 44.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	58400		12000	1000
208-96-8	Acenaphthylene	1190	J	12000	950
120-12-7	Anthracene	91600		12000	1200
56-55-3	Benzo[a]anthracene	172000		12000	1100
50-32-8	Benzo[a]pyrene	163000		12000	1200
205-99-2	Benzo[b]fluoranthene	206000		12000	1700
191-24-2	Benzo[g,h,i]perylene	58200		12000	2000
207-08-9	Benzo[k]fluoranthene	95100		12000	1100
218-01-9	Chrysene	195000		12000	1300
53-70-3	Dibenz(a,h)anthracene	21800		12000	1200
206-44-0	Fluoranthene	456000		12000	1100
86-73-7	Fluorene	39500		12000	930
193-39-5	Indeno[1,2,3-cd]pyrene	78300		12000	2000
90-12-0	1-Methylnaphthalene	1880	J	12000	950
91-57-6	2-Methylnaphthalene	3040	J	12000	930
91-20-3	Naphthalene	2900	J	12000	930
85-01-8	Phenanthrene	378000		12000	790
129-00-0	Pyrene	319000		12000	930

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122618.D
Lab Smp Id: 680-85785-A-29-A MS Client Smp ID: CV0511AB-GS
Inj Date : 26-DEC-2012 18:27
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-29-AMS~98122~1000~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	1000.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.330	Weight Extracted
M	44.692	% 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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	Compound Not Detected.						
* 1 Naphthalene-d8	136	3.505	3.505	(1.000)	6729127	40.0000		
2 Naphthalene	128	3.515	3.515	(1.003)	7988	0.04858	2900(aR)	
3 2-Methylnaphthalene	142	3.878	3.883	(1.106)	6362	0.05098	3000(aR)	
4 1-Methylnaphthalene	142	3.935	3.935	(1.123)	3868	0.03160	1900(aR)	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3788784	40.0000		
6 Acenaphthylene	152	4.381	4.381	(0.983)	4053	0.01991	1200(aR)	
7 Acenaphthene	154	4.474	4.479	(1.003)	104276	0.97898	58000(R)	
8 Fluorene	166	4.764	4.774	(1.069)	94177	0.66232	39000(R)	
* 9 Phenanthrene-d10	188	5.376	5.386	(1.000)	6131276	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	1081202	6.33319	380000(R)	
11 Anthracene	178	5.427	5.438	(1.010)	284253	1.53605	92000(R)	
$ 12 o-Terphenyl	230	Compound Not Detected.						
13 Fluoranthene	202	6.422	6.433	(1.195)	1749754	7.65181	460000(R)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.330	8.340	(1.000)	6868125	40.0000		
15 Pyrene	202	6.671	6.682	(0.801)	1375203	5.34453	320000(R)	
16 Benzo(a)anthracene	228	8.293	8.309	(0.996)	684246	2.88777	170000(R)	
17 Chrysene	228	8.355	8.371	(1.003)	666640	3.27088	190000(R)	
* 18 Perylene-d12	264	10.770	10.781	(1.000)	7792118	40.0000		
19 Benzo(b)fluoranthene	252	10.086	10.102	(0.936)	857298	3.45369	200000(R)	
20 Benzo(k)fluoranthene	252	10.128	10.154	(0.940)	385971	1.59419	95000(R)	
21 Benzo(a)pyrene	252	10.636	10.656	(0.987)	604641	2.73328	160000(R)	
22 Indeno(1,2,3-cd)pyrene	276	12.480	12.512	(1.159)	309108	1.31352	78000(R)	
23 Dibenzo(a,h)anthracene	278	12.512	12.548	(1.162)	85995	0.36585	22000(RM)	SP
24 Benzo(g,h,i)perylene	276	12.890	12.921	(1.197)	229122	0.97574	58000(R)	

QC Flag Legend

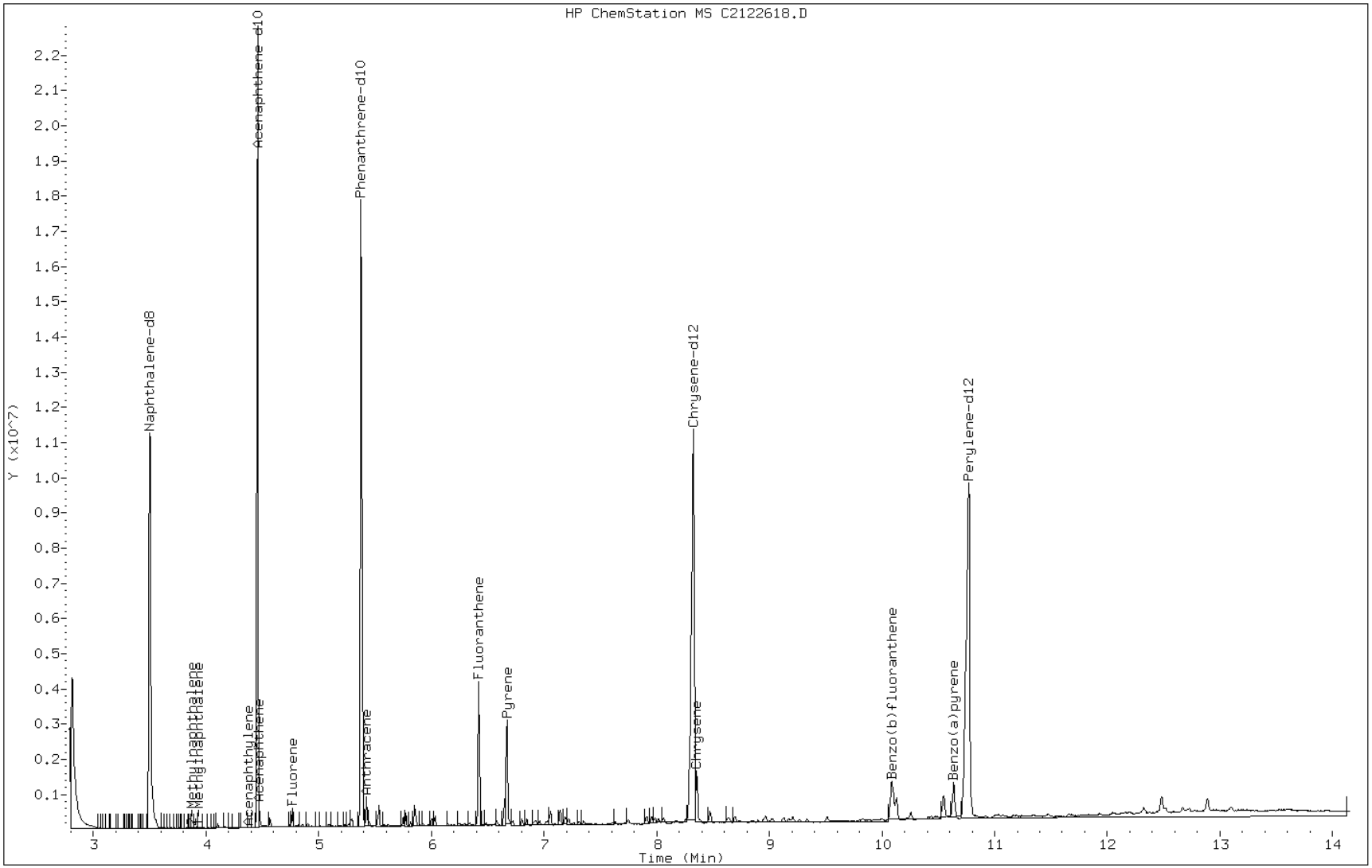
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: C2122618.D

Date: 26-DEC-2012 18:27

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-AMS~98122~1000~8270DLL Operator: VW



Manual Integration Report

Data File: C2122618.D
Inj. Date and Time: 26-DEC-2012 18:27
Instrument ID: TSMC5973.i
Client ID: CV0511AB-GS
Compound: 23 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 12/27/2012

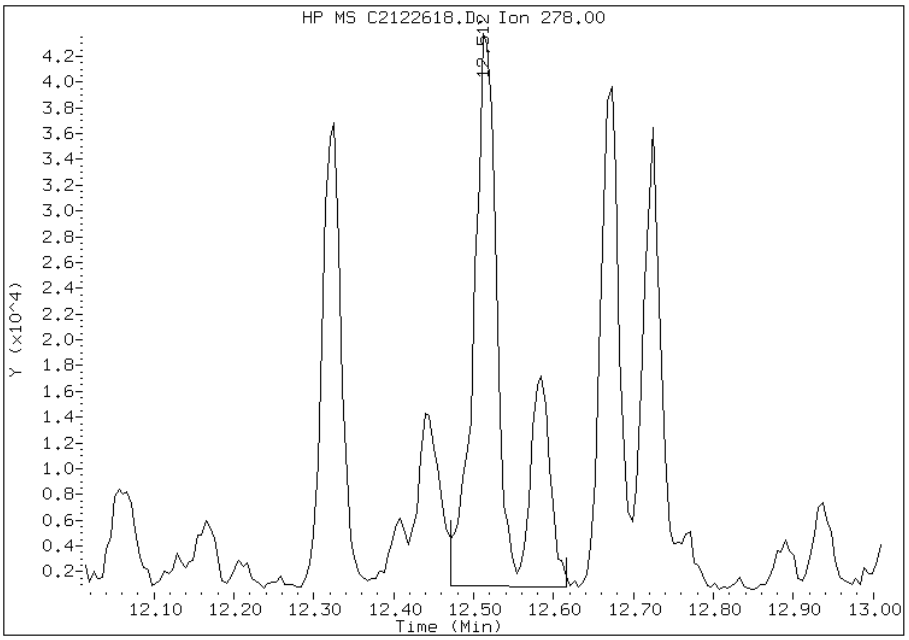
Processing Integration Results

RT: 12.51

Response: 113945

Amount: 0

Conc: 29232



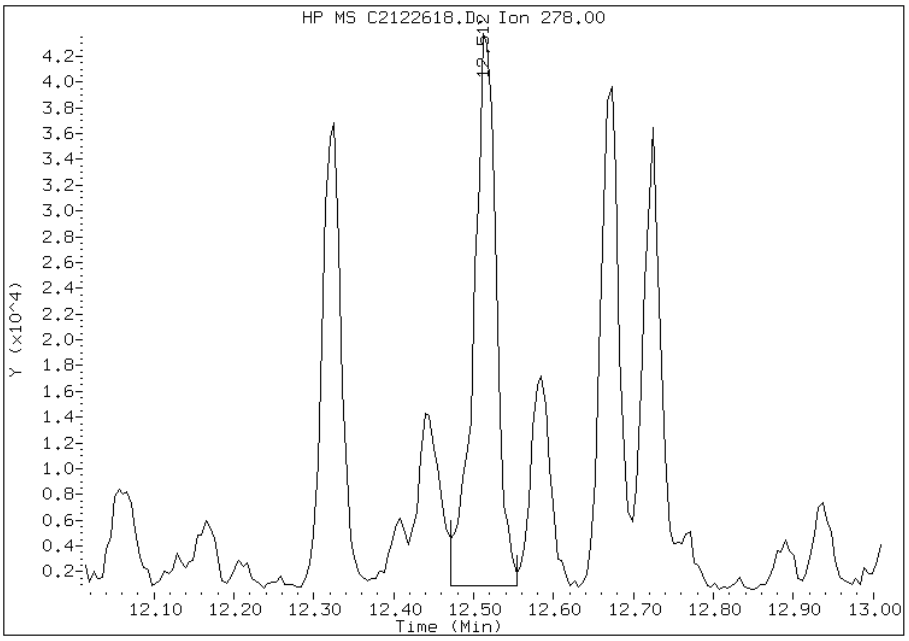
Manual Integration Results

RT: 12.51

Response: 85995

Amount: 0

Conc: 21809



Manually Integrated By: mfrank
Modification Date: 27-Dec-2012 12:27
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-2

SDG No.: 68085785-2

Client Sample ID: CV0511AB-GS MSD | Lab Sample ID: 680-85785-29 MSD

Matrix: Solid | Lab File ID: C2122619.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:24

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:21

Sample wt/vol: 00030.17(g) | Date Analyzed: 12/26/2012 18:46

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1000

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

% Moisture: 44.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98286 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	64400		12000	1000
208-96-8	Acenaphthylene	1000	J	12000	950
120-12-7	Anthracene	115000		12000	1200
56-55-3	Benzo[a]anthracene	232000		12000	1100
50-32-8	Benzo[a]pyrene	217000		12000	1200
205-99-2	Benzo[b]fluoranthene	265000		12000	1700
191-24-2	Benzo[g,h,i]perylene	71600		12000	2000
207-08-9	Benzo[k]fluoranthene	127000		12000	1200
218-01-9	Chrysene	254000		12000	1300
53-70-3	Dibenz(a,h)anthracene	23900		12000	1200
206-44-0	Fluoranthene	591000		12000	1100
86-73-7	Fluorene	50200		12000	940
193-39-5	Indeno[1,2,3-cd]pyrene	102000		12000	2000
90-12-0	1-Methylnaphthalene	2180	J	12000	950
91-57-6	2-Methylnaphthalene	2750	J	12000	940
91-20-3	Naphthalene	2820	J	12000	940
85-01-8	Phenanthrene	490000		12000	790
129-00-0	Pyrene	418000		12000	940

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	0	X	39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\C2122619.D
Lab Smp Id: 680-85785-A-29-B MS Client Smp ID: CV0511AB-GS
Inj Date : 26-DEC-2012 18:46
Operator : VW Inst ID: TSMC5973.i
Smp Info : 680-85785-A-29-BMSD~98122~1000~8270DLL
Misc Info : 1C121226;;1273718
Comment   : Tallahassee
Method   : \\Talsvr05\chem\SM\TSMC5973.i\1C121226.b\sm-8270DpahISTD-m.m
Meth Date : 26-Dec-2012 15:54 vwelch Quant Type: ISTD
Cal Date : 23-DEC-2012 14:25 Cal File: C2122310.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1000.00000
Integrator: HP RTE Compound Sublist: mdlall.sub
Target Version: 4.14
Processing Host: TALLC01

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

Name	Value	Description
DF	1000.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.170	Weight Extracted
M	44.692	% 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)	REVIEW CODE
$ 258 1,3,5-Trichlorbenzene	180	Compound Not Detected.						
* 1 Naphthalene-d8	136	3.505	3.505	(1.000)	6732308	40.0000		
2 Naphthalene	128	3.515	3.515	(1.003)	7749	0.04710	2800(aR)	
3 2-Methylnaphthalene	142	3.878	3.883	(1.106)	5731	0.04590	2800(aR)	
4 1-Methylnaphthalene	142	3.935	3.935	(1.123)	4460	0.03642	2200(aR)	
* 5 Acenaphthene-d10	164	4.458	4.464	(1.000)	3825802	40.0000		
6 Acenaphthylene	152	4.380	4.381	(0.983)	3441	0.01674	1000(aR)	
7 Acenaphthene	154	4.474	4.479	(1.003)	115589	1.07469	64000(R)	
8 Fluorene	166	4.764	4.774	(1.069)	120270	0.83764	50000(R)	
* 9 Phenanthrene-d10	188	5.375	5.386	(1.000)	6252613	40.0000		
10 Phenanthrene	178	5.391	5.401	(1.003)	1420279	8.16727	490000(R)	
11 Anthracene	178	5.427	5.438	(1.010)	362824	1.92577	120000(R)	
$ 12 o-Terphenyl	230	Compound Not Detected.						
13 Fluoranthene	202	6.422	6.433	(1.195)	2296778	9.84908	590000(R)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 14 Chrysene-d12	240	8.329	8.340	(1.000)	7027852	40.0000		
15 Pyrene	202	6.671	6.682	(0.801)	1833833	6.96495	420000(R)	
16 Benzo(a)anthracene	228	8.293	8.309	(0.996)	935764	3.87439	230000(R)	
17 Chrysene	228	8.355	8.371	(1.003)	881768	4.23276	250000(R)	
* 18 Perylene-d12	264	10.770	10.781	(1.000)	7947783	40.0000		
19 Benzo(b)fluoranthene	252	10.086	10.102	(0.936)	1119044	4.41985	260000(R)	
20 Benzo(k)fluoranthene	252	10.127	10.154	(0.940)	521025	2.11404	130000(R)	
21 Benzo(a)pyrene	252	10.640	10.656	(0.988)	813370	3.61216	220000(R)	
22 Indeno(1,2,3-cd)pyrene	276	12.480	12.512	(1.159)	406318	1.69279	100000(R)	
23 Dibenzo(a,h)anthracene	278	12.516	12.548	(1.162)	95148	0.39833	24000(R)	
24 Benzo(g,h,i)perylene	276	12.890	12.921	(1.197)	284729	1.19328	72000(R)	

QC Flag Legend

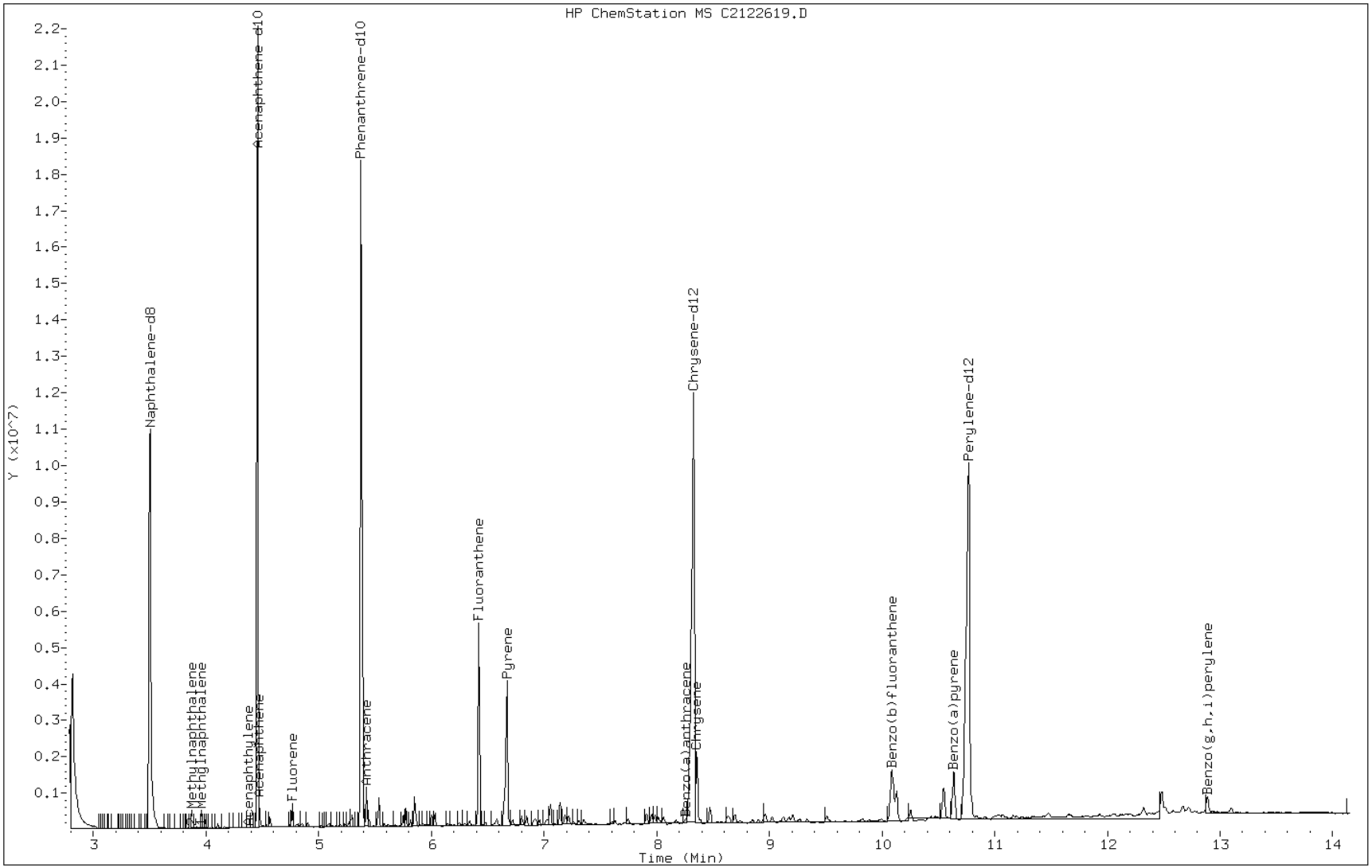
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: C2122619.D

Date: 26-DEC-2012 18:46

Client ID: CV0511AB-GS Instrument: TSMC5973.i

Sample Info: 680-85785-A-29-BMSD~98122~1000~8270DLL Operator: VW



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMA Start Date: 12/27/2012 08:17

Analysis Batch Number: 98315 End Date: 12/27/2012 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98315/1		12/27/2012 08:17	1	A2122703.D	ZB-5MS 0.25(mm)
CCVIS 640-98315/2		12/27/2012 08:30	1	A2122704.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 08:49	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 09:28	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 10:07	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 10:45	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 11:43	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 12:02	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 13:39	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 13:58	1		ZB-5MS 0.25(mm)
680-85785-41	CV0511H-CS	12/27/2012 17:28	20	A2122723.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 17:47	2		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 18:06	2		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 18:25	25		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 18:45	25		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 19:03	2		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 19:21	2		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 19:40	2		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 19:58	25		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 20:16	10		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMA Start Date: 12/26/2012 13:51

Analysis Batch Number: 98324 End Date: 12/26/2012 17:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98324/1		12/26/2012 13:51	1	A2122606.D	ZB-5MS 0.25(mm)
IC 640-98324/2		12/26/2012 14:08	1	A2122607.D	ZB-5MS 0.25(mm)
IC 640-98324/3		12/26/2012 14:27	1	A2122608.D	ZB-5MS 0.25(mm)
IC 640-98324/4		12/26/2012 14:46	1	A2122609.D	ZB-5MS 0.25(mm)
IC 640-98324/5		12/26/2012 15:06	1	A2122610.D	ZB-5MS 0.25(mm)
ICIS 640-98324/6		12/26/2012 15:25	1	A2122611.D	ZB-5MS 0.25(mm)
IC 640-98324/7		12/26/2012 15:44	1	A2122612.D	ZB-5MS 0.25(mm)
IC 640-98324/8		12/26/2012 16:03	1	A2122613.D	ZB-5MS 0.25(mm)
IC 640-98324/9		12/26/2012 16:23	1	A2122614.D	ZB-5MS 0.25(mm)
IC 640-98324/10		12/26/2012 16:42	1	A2122615.D	ZB-5MS 0.25(mm)
ICV 640-98324/11		12/26/2012 17:01	1	A2122616.D	ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMA Start Date: 12/26/2012 17:58

Analysis Batch Number: 98325 End Date: 12/26/2012 21:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98325/1		12/26/2012 17:58	1	A2122617.D	ZB-5MS 0.25(mm)
CCVIS 640-98325/2		12/26/2012 18:11	1	A2122618.D	ZB-5MS 0.25(mm)
MB 640-98123/1-A		12/26/2012 18:31	1	A2122619.D	ZB-5MS 0.25(mm)
LCS 640-98123/2-A		12/26/2012 18:50	1	A2122620.D	ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 19:29	1		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 19:48	1		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 20:07	1		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 20:46	1		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 21:05	1		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Start Date: 12/23/2012 11:41

Analysis Batch Number: 98254 End Date: 12/23/2012 22:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98254/1		12/23/2012 11:41	1	C2122301.D	ZB-5MS 0.25(mm)
IC 640-98254/2		12/23/2012 11:54	1	C2122302.D	ZB-5MS 0.25(mm)
IC 640-98254/3		12/23/2012 12:13	1	C2122303.D	ZB-5MS 0.25(mm)
IC 640-98254/4		12/23/2012 12:32	1	C2122304.D	ZB-5MS 0.25(mm)
IC 640-98254/5		12/23/2012 12:51	1	C2122305.D	ZB-5MS 0.25(mm)
ICIS 640-98254/6		12/23/2012 13:09	1	C2122306.D	ZB-5MS 0.25(mm)
IC 640-98254/7		12/23/2012 13:28	1	C2122307.D	ZB-5MS 0.25(mm)
IC 640-98254/8		12/23/2012 13:47	1	C2122308.D	ZB-5MS 0.25(mm)
IC 640-98254/9		12/23/2012 14:06	1	C2122309.D	ZB-5MS 0.25(mm)
IC 640-98254/10		12/23/2012 14:25	1	C2122310.D	ZB-5MS 0.25(mm)
ICV 640-98254/11		12/23/2012 14:44	1	C2122311.D	ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 15:03	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 15:22	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 15:41	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 16:00	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 16:19	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 16:38	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 16:57	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 17:16	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 17:36	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 17:55	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 18:14	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 18:33	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 18:52	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 19:11	2		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 19:30	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 19:49	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 20:09	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 20:28	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 20:47	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 21:06	1		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 21:25	2		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 21:44	2		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 22:22	5		ZB-5MS 0.25(mm)
ZZZZZ		12/23/2012 22:41	1		ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Start Date: 12/26/2012 13:35

Analysis Batch Number: 98286 End Date: 12/26/2012 22:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98286/1		12/26/2012 13:35	1	C2122603.D	ZB-5MS 0.25(mm)
CCVIS 640-98286/2		12/26/2012 13:52	1	C2122604.D	ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 14:11	1		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 14:30	2		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 14:49	2		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 15:08	2		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 15:27	4		ZB-5MS 0.25(mm)
ZZZZZ		12/26/2012 15:46	4		ZB-5MS 0.25(mm)
MB 640-98122/1-A		12/26/2012 16:05	1	C2122611.D	ZB-5MS 0.25(mm)
LCS 640-98122/2-A		12/26/2012 16:24	1	C2122612.D	ZB-5MS 0.25(mm)
LCSD 640-98122/3-A		12/26/2012 16:43	1	C2122613.D	ZB-5MS 0.25(mm)
680-85785-21	CV0703B-CS-SP	12/26/2012 17:49	1	C2122616.D	ZB-5MS 0.25(mm)
680-85785-29	CV0511AB-GS	12/26/2012 18:08	1000	C2122617.D	ZB-5MS 0.25(mm)
680-85785-29 MS	CV0511AB-GS MS	12/26/2012 18:27	1000	C2122618.D	ZB-5MS 0.25(mm)
680-85785-29 MSD	CV0511AB-GS MSD	12/26/2012 18:46	1000	C2122619.D	ZB-5MS 0.25(mm)
680-85785-22	CV0705A-CS-SP	12/26/2012 19:05	1	C2122620.D	ZB-5MS 0.25(mm)
680-85785-23	CV0705B-CS-SP	12/26/2012 19:24	1	C2122621.D	ZB-5MS 0.25(mm)
680-85785-24	CV0705C-GS	12/26/2012 19:43	1	C2122622.D	ZB-5MS 0.25(mm)
680-85785-25	HP0179A-CS-SP	12/26/2012 20:02	1	C2122623.D	ZB-5MS 0.25(mm)
680-85785-26	HP0179B-CS-SP	12/26/2012 20:21	1	C2122624.D	ZB-5MS 0.25(mm)
680-85785-27	HP0294A-CS-SP	12/26/2012 20:40	1	C2122625.D	ZB-5MS 0.25(mm)
680-85785-28	HP0294B-CS-SP	12/26/2012 20:59	1	C2122626.D	ZB-5MS 0.25(mm)
680-85785-34	CV0511C-CS	12/26/2012 22:35	1	C2122631.D	ZB-5MS 0.25(mm)
680-85785-35	CV0511C-CSD	12/26/2012 22:53	1	C2122632.D	ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: SMC Start Date: 12/27/2012 08:12

Analysis Batch Number: 98300 End Date: 12/27/2012 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 640-98300/1		12/27/2012 08:12	1	C2122704.D	ZB-5MS 0.25(mm)
CCVIS 640-98300/2		12/27/2012 08:25	1	C2122705.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 08:44	1		ZB-5MS 0.25(mm)
680-85785-30	CV0511A-CS	12/27/2012 09:03	50	C2122707.D	ZB-5MS 0.25(mm)
680-85785-31	CV0511A-CSD	12/27/2012 09:22	100	C2122708.D	ZB-5MS 0.25(mm)
680-85785-32	CV0511B-CS	12/27/2012 09:41	2	C2122709.D	ZB-5MS 0.25(mm)
680-85785-33	CV0511B-CSD	12/27/2012 10:00	4	C2122710.D	ZB-5MS 0.25(mm)
680-85785-36	CV0511D-CS	12/27/2012 10:19	4	C2122711.D	ZB-5MS 0.25(mm)
680-85785-37	CV0511D-CSD	12/27/2012 10:38	5	C2122712.D	ZB-5MS 0.25(mm)
680-85785-38	CV0511E-CS	12/27/2012 10:57	2	C2122713.D	ZB-5MS 0.25(mm)
680-85785-39	CV0511F-CS	12/27/2012 11:16	2	C2122714.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 11:54	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 12:13	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 12:32	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 12:51	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 13:10	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 13:29	5		ZB-5MS 0.25(mm)
680-85785-40	CV0511G-CS	12/27/2012 13:48	4	C2122722.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 14:26	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 15:23	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 15:42	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 16:01	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 16:20	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 16:58	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 17:17	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 17:36	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 17:55	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 18:52	5		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 19:49	1		ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 20:08	2		ZB-5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Batch Number: 98122 Batch Start Date: 12/17/12 16:21 Batch Analyst: Cooper, Quentin

Batch Method: 3550C Batch End Date: 12/18/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SMI_PAHSPK 00063	SMIPAHSURR 00139		
MB 640-98122/1		3550C, 8270D LL		00030.93 g	1.0 mL		1 mL		
LCS 640-98122/2		3550C, 8270D LL		00030.30 g	1.0 mL	1 mL	1 mL		
LCSD 640-98122/3		3550C, 8270D LL		00030.64 g	1.0 mL	1 mL	1 mL		
680-85785-A-29 MS	CV0511AB-GS	3550C, 8270D LL	T	00030.33 g	1.0 mL	1 mL	1 mL		
680-85785-A-29 MSD	CV0511AB-GS	3550C, 8270D LL	T	00030.17 g	1.0 mL	1 mL	1 mL		
680-85785-A-29	CV0511AB-GS	3550C, 8270D LL	T	00030.02 g	1.0 mL		1 mL		
680-85785-A-21	CV0703B-CS-SP	3550C, 8270D LL	T	00030.25 g	1.0 mL		1 mL		
680-85785-A-22	CV0705A-CS-SP	3550C, 8270D LL	T	00030.69 g	1.0 mL		1 mL		
680-85785-A-23	CV0705B-CS-SP	3550C, 8270D LL	T	00030.66 g	1.0 mL		1 mL		
680-85785-A-24	CV0705C-GS	3550C, 8270D LL	T	00030.13 g	1.0 mL		1 mL		
680-85785-A-25	HP0179A-CS-SP	3550C, 8270D LL	T	00030.12 g	1.0 mL		1 mL		
680-85785-A-26	HP0179B-CS-SP	3550C, 8270D LL	T	00030.44 g	1.0 mL		1 mL		
680-85785-A-27	HP0294A-CS-SP	3550C, 8270D LL	T	00030.58 g	1.0 mL		1 mL		
680-85785-A-28	HP0294B-CS-SP	3550C, 8270D LL	T	00030.44 g	1.0 mL		1 mL		
680-85785-A-30	CV0511A-CS	3550C, 8270D LL	T	00030.12 g	1.0 mL		1 mL		
680-85785-A-31	CV0511A-CSD	3550C, 8270D LL	T	00030.84 g	1.0 mL		1 mL		
680-85785-A-32	CV0511B-CS	3550C, 8270D LL	T	00030.53 g	1.0 mL		1 mL		
680-85785-A-33	CV0511B-CSD	3550C, 8270D LL	T	00030.05 g	1.0 mL		1 mL		
680-85785-A-34	CV0511C-CS	3550C, 8270D LL	T	00030.41 g	1.0 mL		1 mL		
680-85785-A-35	CV0511C-CSD	3550C, 8270D LL	T	00030.45 g	1.0 mL		1 mL		
680-85785-A-36	CV0511D-CS	3550C, 8270D LL	T	00030.09 g	1.0 mL		1 mL		
680-85785-A-37	CV0511D-CSD	3550C, 8270D LL	T	00030.11 g	1.0 mL		1 mL		

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Batch Number: 98122 Batch Start Date: 12/17/12 16:21 Batch Analyst: Cooper, Quentin

Batch Method: 3550C Batch End Date: 12/18/12 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SMI_PAHSPK 00063	SMIPAHSURR 00139		
680-85785-A-38	CV0511E-CS	3550C, 8270D LL	T	00030.73 g	1.0 mL		1 mL		
680-85785-A-39	CV0511F-CS	3550C, 8270D LL	T	00030.58 g	1.0 mL		1 mL		
680-85785-A-40	CV0511G-CS	3550C, 8270D LL	T	00030.30 g	1.0 mL		1 mL		

Batch Notes	
Balance ID	AND EK-610
Batch Comment	PAH
Concentration End Time	1630
Concentration Start Time	1530
Person's name who did the concentration	MJ
N-evap temperature	40 Degrees C
Na2SO4 Lot Number	1255136
Nominal Amount Used	30 g
Prep Solvent Lot #	1271790
Prep Solvent Name	1:1 MeCl2/ACE
Prep Solvent Volume Used	100 mL
Person's name who witnessed reagent drop	QC
SU Reagent Drop	QC
SU Reagent Drop Witness	QC
Silica Gel Lot Number	111618
Uncorrected N-evap Temperature	40 Degrees C
Vendor of Reagent used	JT Baker
Water Bath Temperature	40 Degrees C

Basis	Basis Description
T	Total/NA

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Batch Number: 98123 Batch Start Date: 12/17/12 16:31 Batch Analyst: Cooper, Quentin

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	SMI_PAHSPK 00063	SMIPAHSURR 00139		
MB 640-98123/1		3550C, 8270D LL		00030.65 g	1.0 mL		1 mL		
LCS 640-98123/2		3550C, 8270D LL		00030.83 g	1.0 mL	1 mL	1 mL		
680-85785-A-41	CV0511H-CS	3550C, 8270D LL	T	00030.09 g	1.0 mL		1 mL		

Batch Notes	
Balance ID	AND EK-610
Batch Comment	PAH
Person's name who did the concentration	QC
N-evap temperature	40 Degrees C
Na2SO4 Lot Number	1255136
Nominal Amount Used	30 g
Prep Solvent Lot #	1271790
Prep Solvent Name	1:1 MeCl2/ACE
Prep Solvent Volume Used	100 mL
Person's name who witnessed reagent drop	QC
SU Reagent Drop	QC
SU Reagent Drop Witness	QC
Silica Gel Lot Number	111618
Uncorrected N-evap Temperature	40 Degrees C
Vendor of Reagent used	JT Baker
Water Bath Temperature	40 Degrees C

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job Number: 680-85785-2

SDG No.: 68085785-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0703B-CS-SP	680-85785-21
CV0705A-CS-SP	680-85785-22
CV0705B-CS-SP	680-85785-23
CV0705C-GS	680-85785-24
HP0179A-CS-SP	680-85785-25
HP0179B-CS-SP	680-85785-26
HP0294A-CS-SP	680-85785-27
HP0294B-CS-SP	680-85785-28
CV0511AB-GS	680-85785-29
CV0511A-CS	680-85785-30
CV0511A-CSD	680-85785-31
CV0511B-CS	680-85785-32
CV0511B-CSD	680-85785-33
CV0511C-CS	680-85785-34
CV0511C-CSD	680-85785-35
CV0511D-CS	680-85785-36
CV0511D-CSD	680-85785-37
CV0511E-CS	680-85785-38
CV0511F-CS	680-85785-39
CV0511G-CS	680-85785-40
CV0511H-CS	680-85785-41

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job Number: 680-85785-2

SDG Number: 68085785-2

Matrix: Solid Instrument ID: AND EK610

Method: Moisture RL Date: 01/19/2004 14:08

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.0001	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: AND EK610 Method: Moisture

Start Date: 12/19/2012 16:39 End Date: 12/20/2012 11:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			16:39																				
ZZZZZZ			16:39																				
ZZZZZZ			11:15																				
ZZZZZZ			11:15																				
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ZZZZZZ			11:15																				
680-85785-21	1	T	11:15	X																			
680-85785-22	1	T	11:15	X																			
680-85785-23	1	T	11:15	X																			
680-85785-24	1	T	11:15	X																			
680-85785-25	1	T	11:15	X																			
680-85785-26	1	T	11:15	X																			
680-85785-27	1	T	11:15	X																			
680-85785-28	1	T	11:15	X																			
680-85785-29	1	T	11:15	X																			
680-85785-29 MS	1	T	11:15	X																			
680-85785-29 MSD	1	T	11:15	X																			
680-85785-30	1	T	11:15	X																			
680-85785-31	1	T	11:15	X																			
680-85785-32	1	T	11:15	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: AND EK610 Method: Moisture

Start Date: 12/19/2012 16:39 End Date: 12/20/2012 11:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-85785-33	1	T	11:15	X																			
680-85785-34	1	T	11:15	X																			
680-85785-35	1	T	11:15	X																			
680-85785-36	1	T	11:15	X																			
680-85785-37	1	T	11:15	X																			
680-85785-38	1	T	11:15	X																			
680-85785-39	1	T	11:15	X																			
680-85785-40	1	T	11:15	X																			
680-85785-41	1	T	11:15	X																			
ZZZZZZ			11:15																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Instrument ID: AND EK610 Method: Moisture

Start Date: 12/19/2012 16:39 End Date: 12/20/2012 11:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			11:15																				
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Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Batch Number: 98183 Batch Start Date: 12/20/12 11:15 Batch Analyst: Cooper, Quentin

Batch Method: Moisture Batch End Date: 12/21/12 10:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-85785-A-21	CV0703B-CS-SP	Moisture	T	27	00001.03 g	00014.72 g	00012.19 g		
680-85785-A-22	CV0705A-CS-SP	Moisture	T	28	00001.03 g	00014.04 g	00010.82 g		
680-85785-A-23	CV0705B-CS-SP	Moisture	T	29	00001.02 g	00014.24 g	00011.26 g		
680-85785-A-24	CV0705C-GS	Moisture	T	30	00001.01 g	00012.95 g	00010.20 g		
680-85785-A-25	HP0179A-CS-SP	Moisture	T	31	00001.02 g	00014.98 g	00011.45 g		
680-85785-A-26	HP0179B-CS-SP	Moisture	T	32	00001.02 g	00014.50 g	00011.27 g		
680-85785-A-27	HP0294A-CS-SP	Moisture	T	33	00000.97 g	00014.51 g	00010.97 g		
680-85785-A-28	HP0294B-CS-SP	Moisture	T	34	00001.06 g	00014.31 g	00010.39 g		
680-85785-A-29	CV0511AB-GS	Moisture	T	35	00001.00 g	00014.94 g	00008.71 g		
680-85785-A-29 MS	CV0511AB-GS	Moisture	T	36	00001.01 g	00014.94 g	00008.71 g		
680-85785-A-29 MSD	CV0511AB-GS	Moisture	T	37	00001.01 g	00014.94 g	00008.71 g		
680-85785-A-30	CV0511A-CS	Moisture	T	38	00001.02 g	00014.47 g	00011.35 g		
680-85785-A-31	CV0511A-CSD	Moisture	T	39	00001.03 g	00014.84 g	00011.67 g		
680-85785-A-32	CV0511B-CS	Moisture	T	40	00001.00 g	00013.56 g	00009.86 g		
680-85785-A-33	CV0511B-CSD	Moisture	T	41	00000.98 g	00014.48 g	00010.41 g		
680-85785-A-34	CV0511C-CS	Moisture	T	42	00000.99 g	00015.16 g	00011.19 g		
680-85785-A-35	CV0511C-CSD	Moisture	T	43	00000.99 g	00013.26 g	00009.56 g		
680-85785-A-36	CV0511D-CS	Moisture	T	44	00001.02 g	00014.25 g	00010.56 g		
680-85785-A-37	CV0511D-CSD	Moisture	T	45	00001.02 g	00015.74 g	00011.66 g		
680-85785-A-38	CV0511E-CS	Moisture	T	46	00001.05 g	00014.67 g	00011.08 g		
680-85785-A-39	CV0511F-CS	Moisture	T	47	00001.02 g	00014.30 g	00009.56 g		
680-85785-A-40	CV0511G-CS	Moisture	T	48	00000.99 g	00014.17 g	00009.53 g		
680-85785-A-41	CV0511H-CS	Moisture	T	49	00001.03 g	00015.24 g	00011.75 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-2

SDG No.: 68085785-2

Batch Number: 98183 Batch Start Date: 12/20/12 11:15 Batch Analyst: Cooper, Quentin

Batch Method: Moisture Batch End Date: 12/21/12 10:35

Batch Notes	
Balance ID	and-ek610 p1847153 No Unit
Date samples were placed in the oven	12-19-12
Oven Temp when samples are put in oven	104 Degrees C
Time samples were place in the oven	1639
Date samples were removed from oven	12-21-12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	1035
Oven ID	EX-01
ID number of the thermometer	T854
Uncorrected In Temperature	104 Celsius
Uncorrected Out Temperature	104 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Serial Number 62727

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
35th Ave Removal		AL	2	6

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey	2005 148-1356	

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Russell Henderson	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	

CLIENT ADDRESS: 1220 Kennestone Circle Suite 106 Marietta, GA

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	PCB	RCRA 8								REMARKS
12-12-12	1141	HP0241D-CS-SP			X			X										Due within 14 days
	1135	HP0241E-CS-SP			X			X										
	1000	CV0507A-CS-SP			X			X		X								
	1011	CV0507B-CS-SP			X			X										
	0912	CV0109A-CS-SP			X			X										
	1359	CV0223A-CS-SP			X			X										
	1347	CV0223B-CS-SP			X			X										
	1518	CV0703A-CS-SP			X			X										
	1516	CV0703B-CS-SP			X			X										
	1435	CV0705A-CS-SP			X			X										
	1446	CV0705B-CS-SP			X			X										
	1456	CV0705C-GS			X			X	X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sem	12/13/12	1630						

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
	12/14/12	0930	YES ○ NO ○		55785	5.2°/5.6

TAL8240-680 (1008)

Serial Number 62728

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.	PROJECT LOCATION (STATE): AL	PAGE 3 OF 6
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 2005148-1356	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5530	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT NAME: OTIE	CLIENT E-MAIL		
CLIENT ADDRESS: 1220 Kennestone Circle, Suite 106 Marietta, GA			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 22 PAH; RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	22 PAH	RCRA 8									REMARKS
12-12-12	1342	HP0179A-CS-SP	C		X			X										Due within 14 days
	1358	HP0179B-CS-SP	C		X			X										
	1312	HP0294A-CS-SP	C		X			X										
	1304	HP0294B-CS-SP	C		X			X										
	1134	CV0511AB-GS	G		X			X	X									
	1000	CV0511A-CS	C		X			X										
	1000	CV0511A-CSD	C		X			X										
	1005	CV0511B-CS	C		X			X										
	1005	CV0511B-CSD	C		X			X										
	1010	CV0511C-CS	C		X			X										
	1010	CV0511C-CSD	C		X			X										
	1020	CV0511D-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sen	12/15/12	1630						
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 LAB LOG NO.	LABORATORY REMARKS
[illegible]	12/14/12	0930	YES ○ NO ○		55795	5.2° / 5.6°

TAL8240-680 (1008)

12/28/2012

Serial Number 62729

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.	PROJECT LOCATION (STATE): AL	PAGE 4 OF 6
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 2005148-1356	CONTRACT NO.	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT NAME: OTIE	CLIENT E-MAIL		
CLIENT ADDRESS: 1220 Kennestone Circle Suite 106 Marietta GA			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: LL PAH

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH	REMARKS
12-12-12	1020	CV0511D-CSD	C		X			X	Due within 14 days
	1025	CV0511E-CS	C		X			X	
	1035	CV0511F-CS	C		X			X	
	1040	CV0511G-CS	C		X			X	
	1045	CV0511H-CS	C		X			X	
	1100	CV0511I-CS	C		X			X	
	1105	CV0511J-CS	C		X			X	
	1107	CV0511K-CS	C		X			X	
	1117	CV0511L-CS	C		X			X	
	1130	CV0511M-CS	C		X			X	
	1132	CV0511N-CS	C		X			X	
	1134	CV0511O-CS	C		X			X	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sc	12/13/12	1630						
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
[illegible]	12/14/12	0930	YES ○ NO ○		680 - 85785	5.2°/5.6°

TAL8240-680 (1008)

12/28/2012

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
SDG Number: 68085785-2

Login Number: 85785
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?	True	
There are no discrepancies between the containers received and the COC.	False	Sieved samples not listed on the COC
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: 680-85785-2
SDG Number: 68085785-2

Login Number: 85785
List Number: 1
Creator: Delp, Eric

List Source: TestAmerica Tallahassee
List Creation: 12/15/12 01:39 PM

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

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-2
SDG Number: 68085785-2

Login Number: 85785
List Number: 2
Creator: Cooper, Quentin

List Source: TestAmerica Tallahassee
List Creation: 12/18/12 02:15 PM

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