ANALYTICAL REPORT

Job Number: 680-85785-3

SDG Number: 68085785-3

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 6:42 PM

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12/28/2012

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-85785-3

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 CV0511I-CS (680-85785-42), CV0511J-CS (680-85785-43), CV0511K-CS (680-85785-44), CV0511L-CS (680-85785-45), CV0511M-CS (680-85785-46), CV0511N-CS (680-85785-47), CV0511O-CS (680-85785-48), CV0511P-CS (680-85785-49), CV0511Q-CS (680-85785-50), CV0511R-CS (680-85785-51), CV0511S-CS (680-85785-52), CV0511T-CS (680-85785-53), CV0511U-CS (680-85785-54), CV0511V-CS (680-85785-55), CV0511W-CS (680-85785-56), CV0511X-CS (680-85785-57), CV0511Y-CS (680-85785-58), CV0511Z-CS (680-85785-59) and CV0511AA-CS (680-85785-60) 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 CV0511L-CS (680-85785-45)[2X], CV0511N-CS (680-85785-47)[2X], CV0511P-CS (680-85785-49)[25X], CV0511Q-CS (680-85785-50)[25X], CV0511U-CS (680-85785-54)[2X], CV0511V-CS (680-85785-55)[2X], CV0511W-CS (680-85785-56)[2X], CV0511X-CS (680-85785-57)[25X], CV0511Y-CS (680-85785-58)[5X] and CV0511AA-CS (680-85785-60)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. Surrogate recoveries were diluted beyond quantitation levels in some of these samples.

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.

Several analytes recovered outside the recovery criteria for the MS of sample CV0511S-CSMS (680-85785-52) in batch 640-98325.

Benzo[b]fluoranthene and Chrysene exceeded the rpd limit for the MS/MSD of sample CV0511S-CS (680-85785-52) in batch 640-98325.

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

A crack in the vial caused thelaboratory 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.

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: 680-85785-3
Sdg Number: 68085785-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-85785-42	CV0511I-CS	Solid	12/12/2012 1100	12/14/2012 1151
680-85785-43	CV0511J-CS	Solid	12/12/2012 1105	12/14/2012 1151
680-85785-44	CV0511K-CS	Solid	12/12/2012 1107	12/14/2012 1151
680-85785-45	CV0511L-CS	Solid	12/12/2012 1117	12/14/2012 1151
680-85785-46	CV0511M-CS	Solid	12/12/2012 1130	12/14/2012 1151
680-85785-47	CV0511N-CS	Solid	12/12/2012 1132	12/14/2012 1151
680-85785-48	CV0511O-CS	Solid	12/12/2012 1154	12/14/2012 1151
680-85785-49	CV0511P-CS	Solid	12/12/2012 1350	12/14/2012 1151
680-85785-50	CV0511Q-CS	Solid	12/12/2012 1355	12/14/2012 1151
680-85785-51	CV0511R-CS	Solid	12/12/2012 1407	12/14/2012 1151
680-85785-52	CV0511S-CS	Solid	12/12/2012 1400	12/14/2012 1151
680-85785-52MS	CV0511S-CS	Solid	12/12/2012 1400	12/14/2012 1151
680-85785-52MSD	CV0511S-CS	Solid	12/12/2012 1400	12/14/2012 1151
680-85785-53	CV0511T-CS	Solid	12/12/2012 1424	12/14/2012 1151
680-85785-54	CV0511U-CS	Solid	12/12/2012 1428	12/14/2012 1151
680-85785-55	CV0511V-CS	Solid	12/12/2012 1440	12/14/2012 1151
680-85785-56	CV0511W-CS	Solid	12/12/2012 1445	12/14/2012 1151
680-85785-57	CV0511X-CS	Solid	12/12/2012 1455	12/14/2012 1151
680-85785-58	CV0511Y-CS	Solid	12/12/2012 1500	12/14/2012 1151
680-85785-59	CV0511Z-CS	Solid	12/12/2012 1515	12/14/2012 1151
680-85785-60	CV0511AA-CS	Solid	12/12/2012 1520	12/14/2012 1151

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-3
Sdg Number: 68085785-3

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: 680-85785-3
Sdg Number: 68085785-3

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: 680-85785-3
Sdg Number: 68085785-3

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.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-3
Sdg Number: 68085785-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
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	
680-85785-42	CV0511I-CS	T	Solid	3550C	
680-85785-43	CV0511J-CS	T	Solid	3550C	
680-85785-44	CV0511K-CS	T	Solid	3550C	
680-85785-45	CV0511L-CS	T	Solid	3550C	
680-85785-46	CV0511M-CS	T	Solid	3550C	
680-85785-47	CV0511N-CS	T	Solid	3550C	
680-85785-48	CV0511O-CS	T	Solid	3550C	
680-85785-49	CV0511P-CS	T	Solid	3550C	
680-85785-50	CV0511Q-CS	T	Solid	3550C	
680-85785-51	CV0511R-CS	T	Solid	3550C	
680-85785-52	CV0511S-CS	T	Solid	3550C	
680-85785-52MS	Matrix Spike	T	Solid	3550C	
680-85785-52MSD	Matrix Spike Duplicate	T	Solid	3550C	
680-85785-53	CV0511T-CS	T	Solid	3550C	
680-85785-54	CV0511U-CS	T	Solid	3550C	
680-85785-55	CV0511V-CS	T	Solid	3550C	
680-85785-56	CV0511W-CS	T	Solid	3550C	
680-85785-57	CV0511X-CS	T	Solid	3550C	
680-85785-58	CV0511Y-CS	T	Solid	3550C	
680-85785-59	CV0511Z-CS	T	Solid	3550C	
680-85785-60	CV0511AA-CS	T	Solid	3550C	
Analysis Batch:640-98315					
680-85785-44	CV0511K-CS	T	Solid	8270D LL	640-98123
680-85785-45	CV0511L-CS	T	Solid	8270D LL	640-98123
680-85785-46	CV0511M-CS	T	Solid	8270D LL	640-98123
680-85785-47	CV0511N-CS	T	Solid	8270D LL	640-98123
680-85785-48	CV0511O-CS	T	Solid	8270D LL	640-98123
680-85785-49	CV0511P-CS	T	Solid	8270D LL	640-98123
680-85785-50	CV0511Q-CS	T	Solid	8270D LL	640-98123
680-85785-51	CV0511R-CS	T	Solid	8270D LL	640-98123
680-85785-53	CV0511T-CS	T	Solid	8270D LL	640-98123
680-85785-54	CV0511U-CS	T	Solid	8270D LL	640-98123
680-85785-55	CV0511V-CS	T	Solid	8270D LL	640-98123
680-85785-56	CV0511W-CS	T	Solid	8270D LL	640-98123
680-85785-57	CV0511X-CS	T	Solid	8270D LL	640-98123
680-85785-58	CV0511Y-CS	T	Solid	8270D LL	640-98123
680-85785-59	CV0511Z-CS	T	Solid	8270D LL	640-98123
680-85785-60	CV0511AA-CS	T	Solid	8270D LL	640-98123

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-3
Sdg Number: 68085785-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
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
680-85785-42	CV0511I-CS	T	Solid	8270D LL	640-98123
680-85785-43	CV0511J-CS	T	Solid	8270D LL	640-98123
680-85785-52	CV0511S-CS	T	Solid	8270D LL	640-98123
680-85785-52MS	Matrix Spike	T	Solid	8270D LL	640-98123
680-85785-52MSD	Matrix Spike Duplicate	T	Solid	8270D LL	640-98123

Report Basis
T = Total

General Chemistry				
Analysis Batch:640-98183				
680-85785-42	CV0511I-CS	T	Solid	Moisture
680-85785-43	CV0511J-CS	T	Solid	Moisture
680-85785-44	CV0511K-CS	T	Solid	Moisture
680-85785-45	CV0511L-CS	T	Solid	Moisture
680-85785-46	CV0511M-CS	T	Solid	Moisture
680-85785-47	CV0511N-CS	T	Solid	Moisture
680-85785-48	CV0511O-CS	T	Solid	Moisture
680-85785-49	CV0511P-CS	T	Solid	Moisture
680-85785-50	CV0511Q-CS	T	Solid	Moisture
680-85785-51	CV0511R-CS	T	Solid	Moisture
680-85785-52	CV0511S-CS	T	Solid	Moisture
680-85785-52MS	Matrix Spike	T	Solid	Moisture
680-85785-52MSD	Matrix Spike Duplicate	T	Solid	Moisture
680-85785-53	CV0511T-CS	T	Solid	Moisture
680-85785-54	CV0511U-CS	T	Solid	Moisture
680-85785-55	CV0511V-CS	T	Solid	Moisture
680-85785-56	CV0511W-CS	T	Solid	Moisture
680-85785-57	CV0511X-CS	T	Solid	Moisture
680-85785-58	CV0511Y-CS	T	Solid	Moisture
680-85785-59	CV0511Z-CS	T	Solid	Moisture
680-85785-60	CV0511AA-CS	T	Solid	Moisture

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

Instrument ID: SMA Analysis Batch Number: 98315

Lab Sample ID: 680-85785-55 Client Sample ID: CV0511V-CS

Date Analyzed: 12/27/12 19:21 Lab File ID: A2122729.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	12.99	Split Peak	mfrank	12/28/12 10:48

Lab Sample ID: 680-85785-60 Client Sample ID: CV0511AA-CS

Date Analyzed: 12/27/12 20:16 Lab File ID: A2122732.D GC Column: ZB-5MS ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	12.98	Split Peak	mfrank	12/28/12 10:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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

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.: 680-85785-3

SDG No.: 68085785-3

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH	#
CV0511I-CS	680-85785-42	64	
CV0511J-CS	680-85785-43	78	
CV0511K-CS	680-85785-44	80	
CV0511L-CS	680-85785-45	67	
CV0511M-CS	680-85785-46	69	
CV0511N-CS	680-85785-47	66	
CV0511O-CS	680-85785-48	44	
CV0511P-CS	680-85785-49	0	X
CV0511Q-CS	680-85785-50	0	X
CV0511R-CS	680-85785-51	74	
CV0511S-CS	680-85785-52	77	
CV0511T-CS	680-85785-53	77	
CV0511U-CS	680-85785-54	73	
CV0511V-CS	680-85785-55	56	
CV0511W-CS	680-85785-56	71	
CV0511X-CS	680-85785-57	0	X
CV0511Y-CS	680-85785-58	85	
CV0511Z-CS	680-85785-59	80	
CV0511AA-CS	680-85785-60	77	
	MB 640-98123/1-A	88	
	LCS 640-98123/2-A	82	
CV0511S-CS MS	680-85785-52 MS	76	
CV0511S-CS MSD	680-85785-52 MSD	76	

	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.: 680-85785-3

SDG No.: 68085785-3

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 MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

Matrix: Solid Level: Low Lab File ID: A2122622.D

Lab ID: 680-85785-52 MS Client ID: CV0511S-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	206	9.1 J	138	63	30-100	
Acenaphthylene	206	6.6 J	129	59	26-102	
Anthracene	206	22	181	77	33-100	
Benzo[a]anthracene	206	130	373	118	24-120	
Benzo[a]pyrene	206	190	480	142	19-138	F
Benzo[b]fluoranthene	206	290	638	170	26-124	F
Benzo[g,h,i]perylene	206	100	285	88	10-129	
Benzo[k]fluoranthene	206	100	354	122	27-126	
Chrysene	206	160	410	122	26-121	F
Dibenz(a,h)anthracene	206	34	202	82	10-123	
Fluoranthene	206	240	496	123	21-122	F
Fluorene	206	7.3 J	144	66	35-100	
Indeno[1,2,3-cd]pyrene	206	120	347	111	10-125	
1-Methylnaphthalene	206	17	137	58	31-100	
2-Methylnaphthalene	206	22	155	64	31-100	
Naphthalene	206	22	143	59	27-100	
Phenanthrene	206	120	319	99	29-110	
Pyrene	206	200	440	118	19-129	

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.: 680-85785-3

SDG No.: 68085785-3

Matrix: Solid Level: Low Lab File ID: A2122623.D

Lab ID: 680-85785-52 MSD Client ID: CV0511S-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	209	130	58	6	45	30-100	
Acenaphthylene	209	126	57	2	45	26-102	
Anthracene	209	164	68	10	33	33-100	
Benzo[a]anthracene	209	251	58	39	39	24-120	
Benzo[a]pyrene	209	344	75	33	44	19-138	
Benzo[b]fluoranthene	209	410	59	43	34	26-124	F
Benzo[g,h,i]perylene	209	213	53	29	40	10-129	
Benzo[k]fluoranthene	209	275	82	25	36	27-126	
Chrysene	209	271	54	41	33	26-121	F
Dibenz(a,h)anthracene	209	182	71	10	40	10-123	
Fluoranthene	209	343	48	36	37	21-122	
Fluorene	209	140	63	3	38	35-100	
Indeno[1,2,3-cd]pyrene	209	257	66	30	40	10-125	
1-Methylnaphthalene	209	133	55	3	41	31-100	
2-Methylnaphthalene	209	147	60	5	44	31-100	
Naphthalene	209	136	54	5	39	27-100	
Phenanthrene	209	245	62	26	36	29-110	
Pyrene	209	310	54	35	37	19-129	

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.: 680-85785-3

SDG No.: 68085785-3

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
CV0511S-CS MS	680-85785-52 MS	A2122622.D	12/26/2012 19:29
CV0511S-CS MSD	680-85785-52 MSD	A2122623.D	12/26/2012 19:48
CV0511S-CS	680-85785-52	A2122624.D	12/26/2012 20:07
CV0511I-CS	680-85785-42	A2122626.D	12/26/2012 20:46
CV0511J-CS	680-85785-43	A2122627.D	12/26/2012 21:05
CV0511K-CS	680-85785-44	A2122707.D	12/27/2012 09:28
CV0511M-CS	680-85785-46	A2122709.D	12/27/2012 10:07
CV0511O-CS	680-85785-48	A2122711.D	12/27/2012 10:45
CV0511R-CS	680-85785-51	A2122714.D	12/27/2012 11:43
CV0511T-CS	680-85785-53	A2122715.D	12/27/2012 12:02
CV0511Y-CS	680-85785-58	A2122720.D	12/27/2012 13:39
CV0511Z-CS	680-85785-59	A2122721.D	12/27/2012 13:58
CV0511L-CS	680-85785-45	A2122724.D	12/27/2012 17:47
CV0511N-CS	680-85785-47	A2122725.D	12/27/2012 18:06
CV0511P-CS	680-85785-49	A2122726.D	12/27/2012 18:25
CV0511Q-CS	680-85785-50	A2122727.D	12/27/2012 18:45
CV0511U-CS	680-85785-54	A2122728.D	12/27/2012 19:03
CV0511V-CS	680-85785-55	A2122729.D	12/27/2012 19:21
CV0511W-CS	680-85785-56	A2122730.D	12/27/2012 19:40
CV0511X-CS	680-85785-57	A2122731.D	12/27/2012 19:58
CV0511AA-CS	680-85785-60	A2122732.D	12/27/2012 20:16

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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.: 680-85785-3

SDG No.: 68085785-3

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
CV0511S-CS MS	680-85785-52 MS	A2122622.D	12/26/2012	19:29
CV0511S-CS MSD	680-85785-52 MSD	A2122623.D	12/26/2012	19:48
CV0511S-CS	680-85785-52	A2122624.D	12/26/2012	20:07
CV0511I-CS	680-85785-42	A2122626.D	12/26/2012	20:46
CV0511J-CS	680-85785-43	A2122627.D	12/26/2012	21:05

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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
CV0511K-CS	680-85785-44	A2122707.D	12/27/2012	09:28
CV0511M-CS	680-85785-46	A2122709.D	12/27/2012	10:07
CV0511O-CS	680-85785-48	A2122711.D	12/27/2012	10:45
CV0511R-CS	680-85785-51	A2122714.D	12/27/2012	11:43
CV0511T-CS	680-85785-53	A2122715.D	12/27/2012	12:02
CV0511Y-CS	680-85785-58	A2122720.D	12/27/2012	13:39
CV0511Z-CS	680-85785-59	A2122721.D	12/27/2012	13:58
CV0511L-CS	680-85785-45	A2122724.D	12/27/2012	17:47
CV0511N-CS	680-85785-47	A2122725.D	12/27/2012	18:06
CV0511P-CS	680-85785-49	A2122726.D	12/27/2012	18:25
CV0511Q-CS	680-85785-50	A2122727.D	12/27/2012	18:45
CV0511U-CS	680-85785-54	A2122728.D	12/27/2012	19:03
CV0511V-CS	680-85785-55	A2122729.D	12/27/2012	19:21
CV0511W-CS	680-85785-56	A2122730.D	12/27/2012	19:40
CV0511X-CS	680-85785-57	A2122731.D	12/27/2012	19:58
CV0511AA-CS	680-85785-60	A2122732.D	12/27/2012	20:16

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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
680-85785-52 MS	CV0511S-CS MS	1577013	3.69	804110	4.66	1226307	5.63
680-85785-52 MSD	CV0511S-CS MSD	1493032	3.70	782111	4.67	1207611	5.63
680-85785-52	CV0511S-CS	1500288	3.71	787169	4.66	1213634	5.64
680-85785-42	CV0511I-CS	1564932	3.71	826340	4.67	1280041	5.64
680-85785-43	CV0511J-CS	1527083	3.70	816647	4.67	1264822	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.: 680-85785-3

SDG No.: 68085785-3

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		
680-85785-52 MS	CV0511S-CS MS	1489750	8.75	1341850	11.25		
680-85785-52 MSD	CV0511S-CS MSD	1479456	8.75	1335743	11.25		
680-85785-52	CV0511S-CS	1508027	8.75	1280536	11.25		
680-85785-42	CV0511I-CS	1569891	8.75	1073498	11.25		
680-85785-43	CV0511J-CS	1542625	8.75	1023155	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.: 680-85785-3

SDG No.: 68085785-3

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						
680-85785-44	CV0511K-CS	1362073	3.70	704442	4.66	1095931	5.63
680-85785-46	CV0511M-CS	1602973	3.70	843119	4.66	1330185	5.63
680-85785-48	CV0511O-CS	1682608	3.70	886133	4.66	1381944	5.63
680-85785-51	CV0511R-CS	1491420	3.71	800905	4.66	1234233	5.63
680-85785-53	CV0511T-CS	1431721	3.70	761794	4.66	1188431	5.63
680-85785-58	CV0511Y-CS	1451644	3.71	776975	4.66	1220981	5.63
680-85785-59	CV0511Z-CS	1629191	3.70	857310	4.66	1349030	5.63
680-85785-45	CV0511L-CS	1523947	3.71	785858	4.66	1247084	5.63
680-85785-47	CV0511N-CS	1378708	3.70	723365	4.66	1139045	5.63
680-85785-49	CV0511P-CS	1420621	3.71	766897	4.66	1202024	5.63
680-85785-50	CV0511Q-CS	1397352	3.71	740785	4.66	1169028	5.63
680-85785-54	CV0511U-CS	1616161	3.71	852894	4.66	1326453	5.63
680-85785-55	CV0511V-CS	1547493	3.70	826152	4.66	1278237	5.63
680-85785-56	CV0511W-CS	1661047	3.70	877319	4.66	1375527	5.63
680-85785-57	CV0511X-CS	1360093	3.71	727068	4.66	1150291	5.63
680-85785-60	CV0511AA-CS	1410656	3.71	760511	4.66	1190570	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.: 680-85785-3

SDG No.: 68085785-3

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						
680-85785-44	CV0511K-CS	1334205	8.74	1229046	11.24		
680-85785-46	CV0511M-CS	1599875	8.74	1432351	11.25		
680-85785-48	CV0511O-CS	1716892	8.75	1394824	11.25		
680-85785-51	CV0511R-CS	1517914	8.75	1054406	11.24		
680-85785-53	CV0511T-CS	1456577	8.74	986686	11.24		
680-85785-58	CV0511Y-CS	1431706	8.74	1032907	11.24		
680-85785-59	CV0511Z-CS	1641575	8.75	1024172	11.25		
680-85785-45	CV0511L-CS	1525869	8.75	992814	11.24		
680-85785-47	CV0511N-CS	1354592	8.74	875707	11.24		
680-85785-49	CV0511P-CS	1427642	8.74	1000993	11.24		
680-85785-50	CV0511Q-CS	1360925	8.74	955666	11.23		
680-85785-54	CV0511U-CS	1613305	8.74	1058457	11.24		
680-85785-55	CV0511V-CS	1536440	8.74	1016901	11.23		
680-85785-56	CV0511W-CS	1660153	8.75	1024129	11.24		
680-85785-57	CV0511X-CS	1332511	8.74	897454	11.23		
680-85785-60	CV0511AA-CS	1402726	8.74	947592	11.23		

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.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511I-CS | Lab Sample ID: 680-85785-42

Matrix: Solid | Lab File ID: A2122626.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.33(g) | Date Analyzed: 12/26/2012 20:46

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

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

% Moisture: 29.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	13		9.5	0.82
208-96-8	Acenaphthylene	27		9.5	0.75
120-12-7	Anthracene	51		9.5	0.93
56-55-3	Benzo[a]anthracene	220	B	9.5	0.88
50-32-8	Benzo[a]pyrene	340	B	9.5	0.96
205-99-2	Benzo[b]fluoranthene	610	B	9.5	1.3
191-24-2	Benzo[g,h,i]perylene	120	B	9.5	1.6
207-08-9	Benzo[k]fluoranthene	220	B	9.5	0.90
218-01-9	Chrysene	260	B	9.5	1.1
53-70-3	Dibenz(a,h)anthracene	46	B	9.5	0.92
206-44-0	Fluoranthene	340	B	9.5	0.85
86-73-7	Fluorene	11		9.5	0.73
193-39-5	Indeno[1,2,3-cd]pyrene	160	B	9.5	1.6
90-12-0	1-Methylnaphthalene	11		9.5	0.75
91-57-6	2-Methylnaphthalene	13		9.5	0.73
91-20-3	Naphthalene	12		9.5	0.73
85-01-8	Phenanthrene	160		9.5	0.62
129-00-0	Pyrene	310	B	9.5	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\TSMA5973.i\2A121226.b\A2122626.D
Lab Smp Id: 680-85785-A-42-A Client Smp ID: CV0511I-CS
Inj Date : 26-DEC-2012 20:46
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-42-A~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: 8
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	30.330	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	3.711	(1.000)	1564932	40.0000		
2 Naphthalene	128	3.726	3.721	(1.004)	11235	0.25489	8.4	
3 2-Methylnaphthalene	142	4.084	4.079	(1.101)	7886	0.28310	9.3	
4 1-Methylnaphthalene	142	4.135	4.136	(1.115)	6469	0.22441	7.4	
* 5 Acenaphthene-d10	164	4.668	4.663	(1.000)	826340	40.0000		
6 Acenaphthylene	152	4.586	4.587	(0.982)	25771	0.58193	19	
7 Acenaphthene	153	4.684	4.684	(1.003)	7676	0.28145	9.3	
8 Fluorene	166	4.986	4.986	(1.068)	7252	0.23323	7.7	
* 9 Phenanthrene-d10	188	5.637	5.637	(1.000)	1280041	40.0000		
10 Phenanthrene	176	5.652	5.652	(1.003)	27499	3.30101	110	
11 Anthracene	178	5.688	5.688	(1.009)	47164	1.07834	36	
$ 12 o-Terphenyl	230	5.908	5.909	(1.048)	69269	2.56059	84	
13 Fluoranthene	202	6.748	6.749	(1.197)	372317	7.32664	240	
* 14 Chrysene-d12	240	8.752	8.747	(1.000)	1569891	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	7.015	7.015	(0.802)	347293	6.49078	210	
16 Benzo(a)anthracene	226	8.726	8.711	(0.997)	66644	4.67002	150(Q)	
17 Chrysene	228	8.782	8.783	(1.004)	264840	5.44322	180	
* 18 Perylene-d12	264	11.252	11.252	(1.000)	1073498	40.0000		
19 Benzo(b)fluoranthene	252	10.571	10.555	(0.939)	426623	12.8869	420	
20 Benzo(k)fluoranthene	252	10.612	10.607	(0.943)	156142	4.61810	150	
21 Benzo(a)pyrene	252	11.129	11.119	(0.989)	216242	7.22921	240	
22 Indeno(1,2,3-cd)pyrene	276	13.020	13.010	(1.157)	103592	3.43641	110	
23 Dibenzo(a,h)anthracene	278	13.050	13.051	(1.160)	29770	0.97477	32	
24 Benzo(g,h,i)perylene	276	13.476	13.460	(1.198)	77509	2.59533	86	

QC Flag Legend

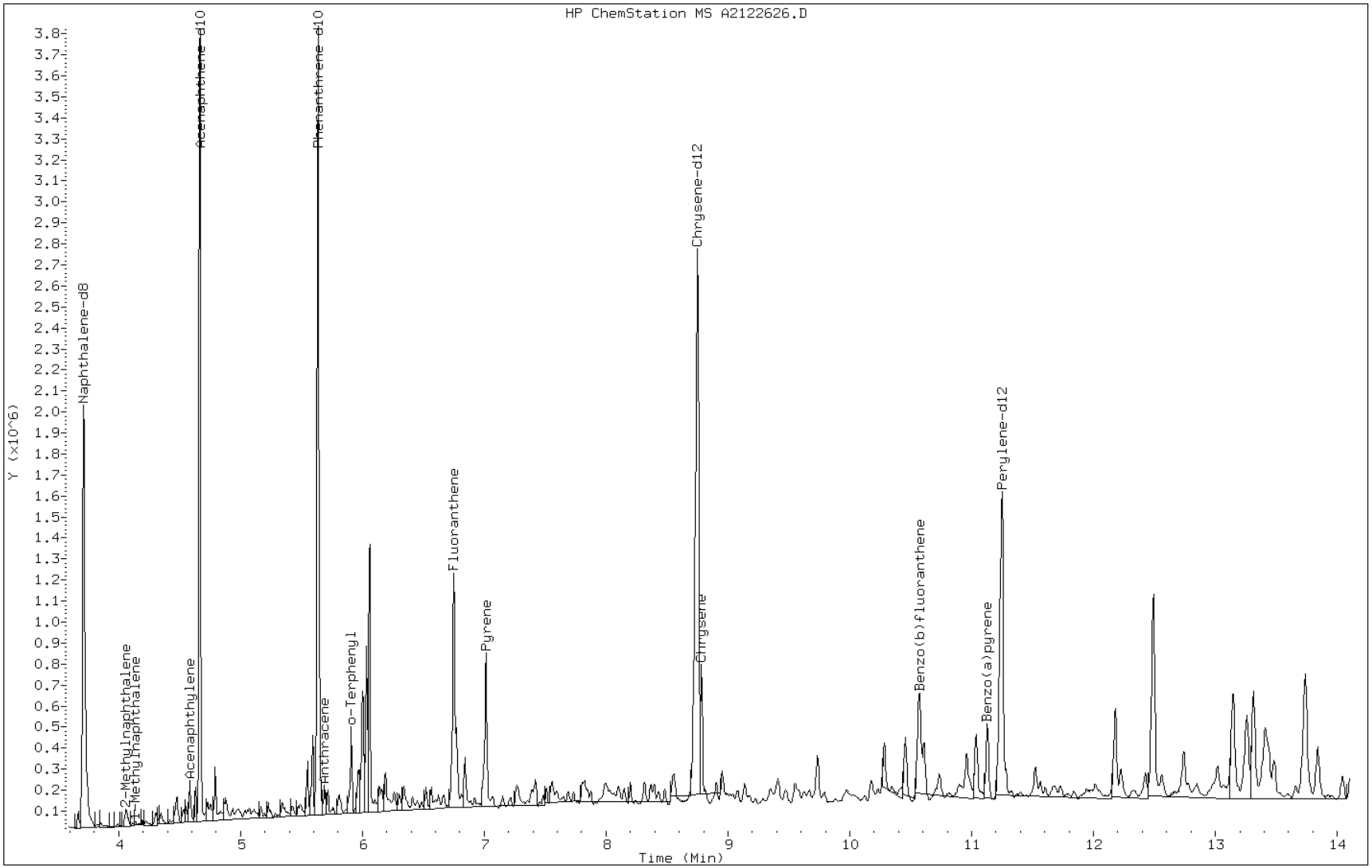
Q - Qualifier signal failed the ratio test.

Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW



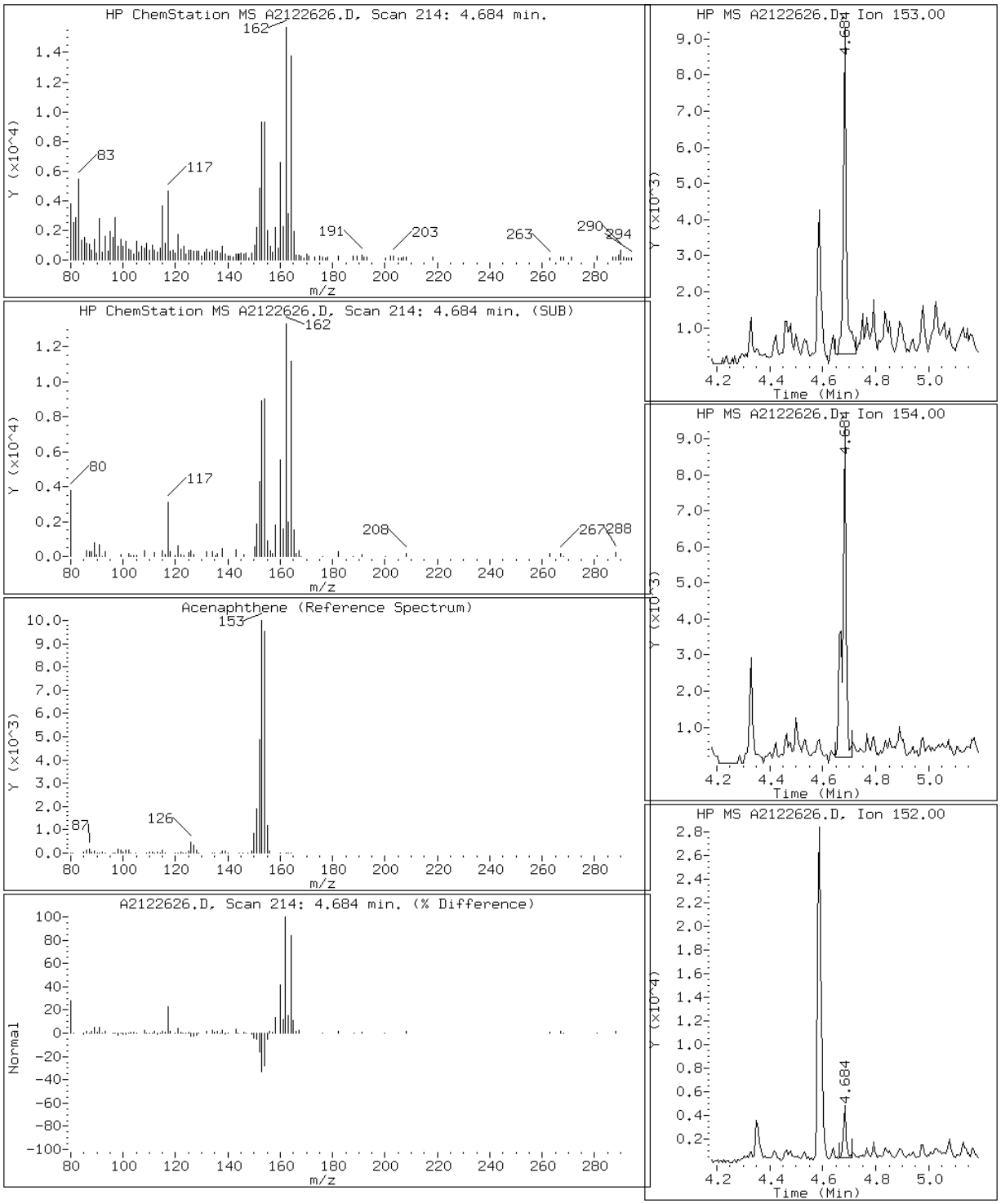
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



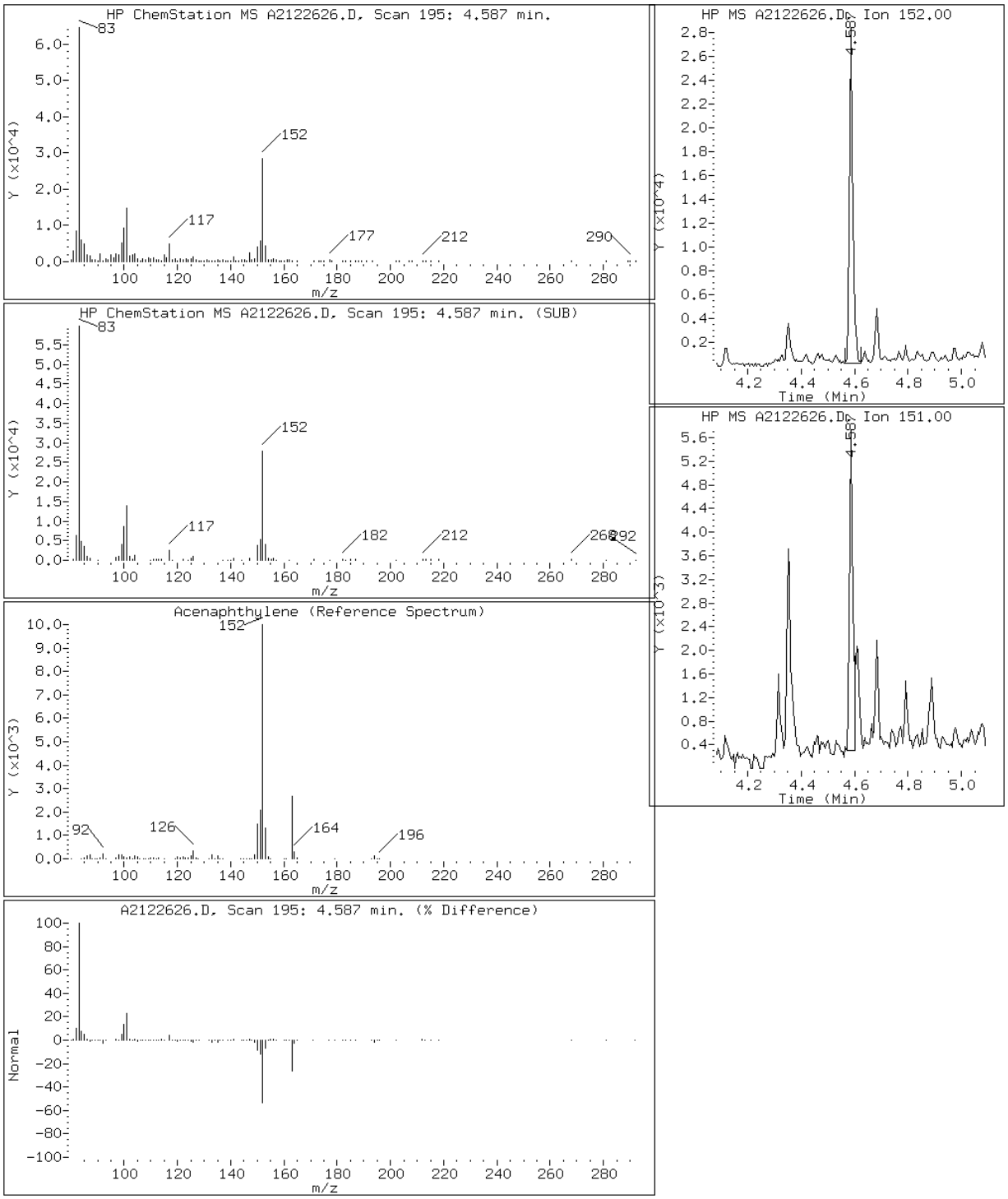
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

6 Acenaphthylene



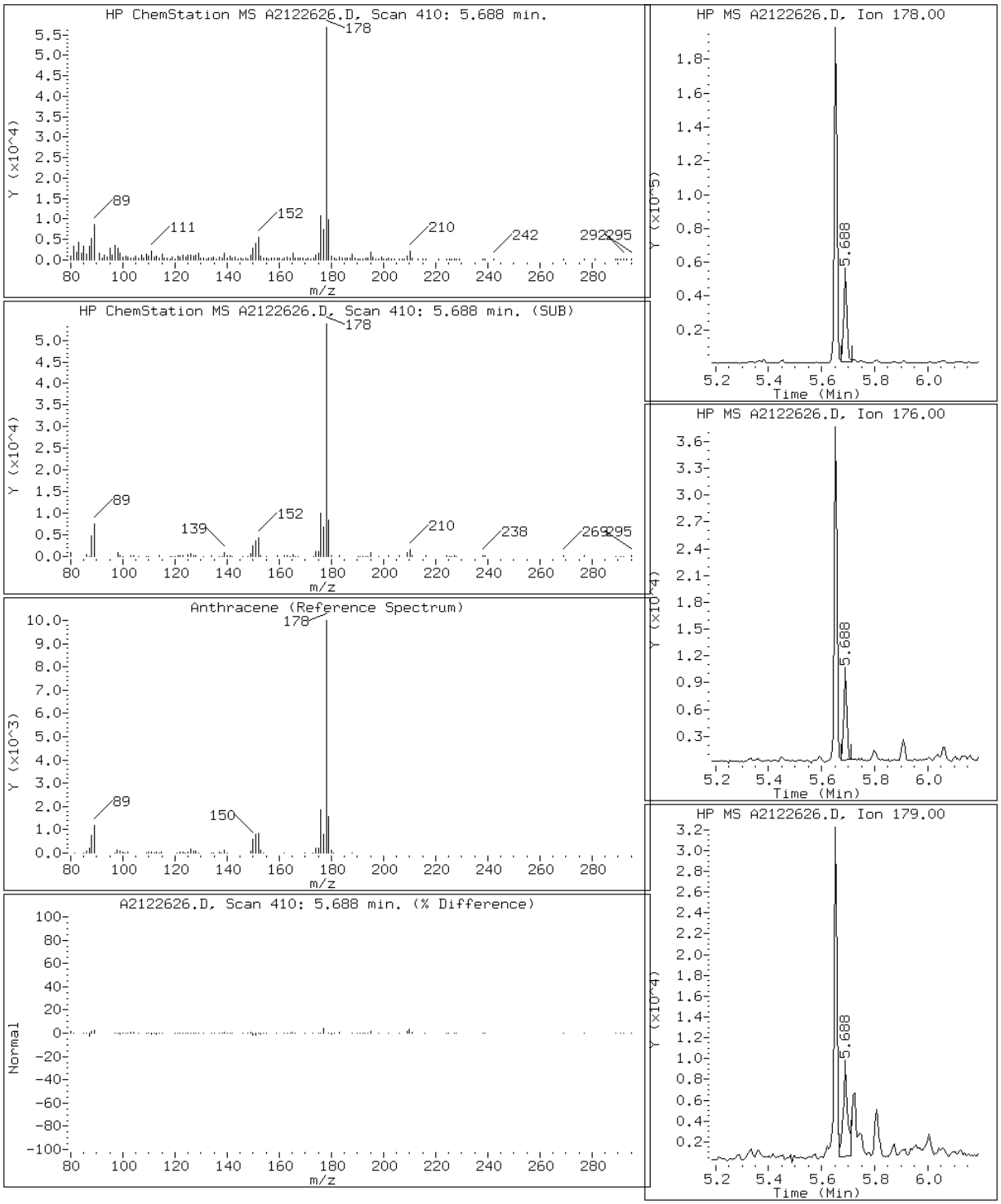
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

11 Anthracene



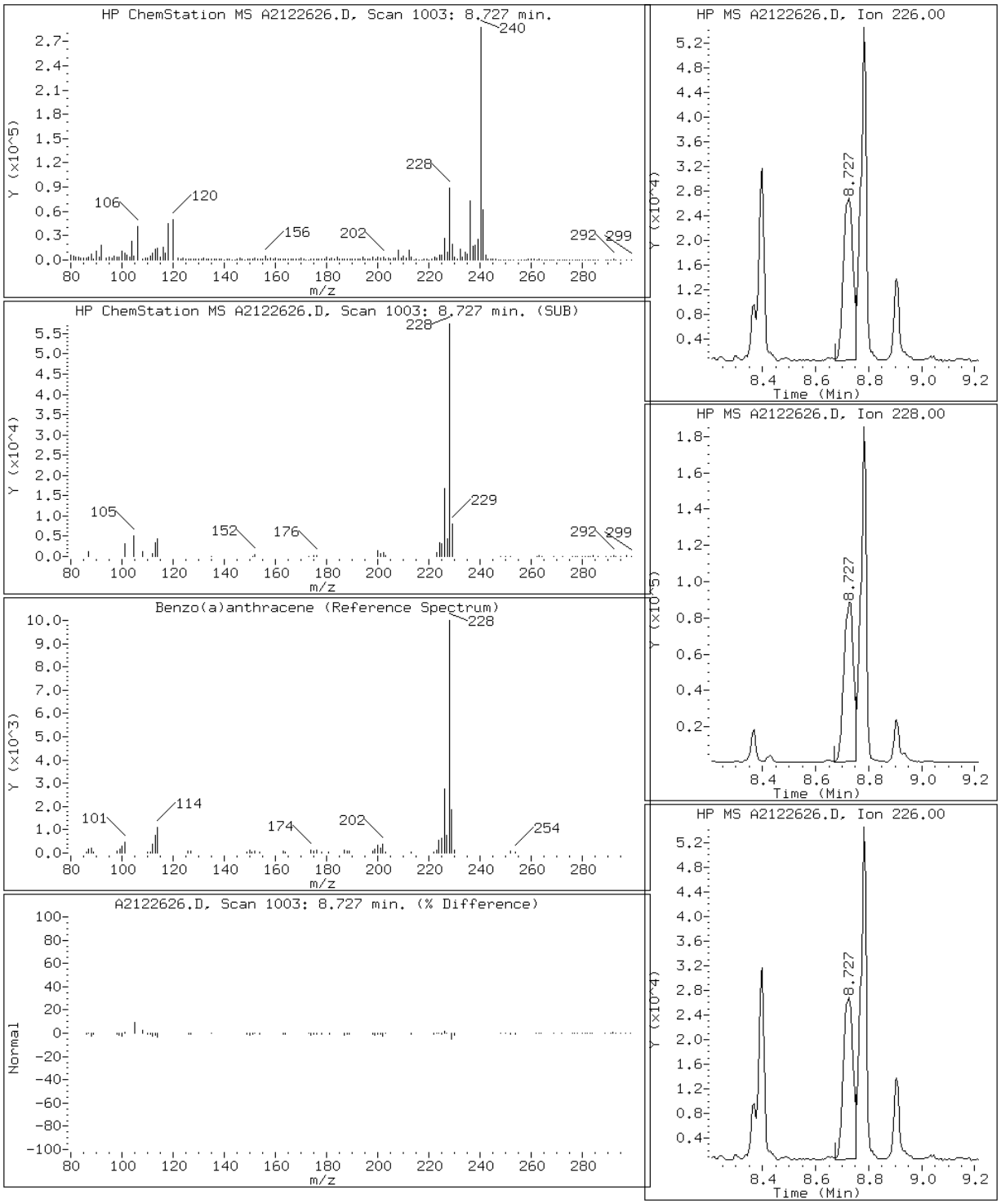
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



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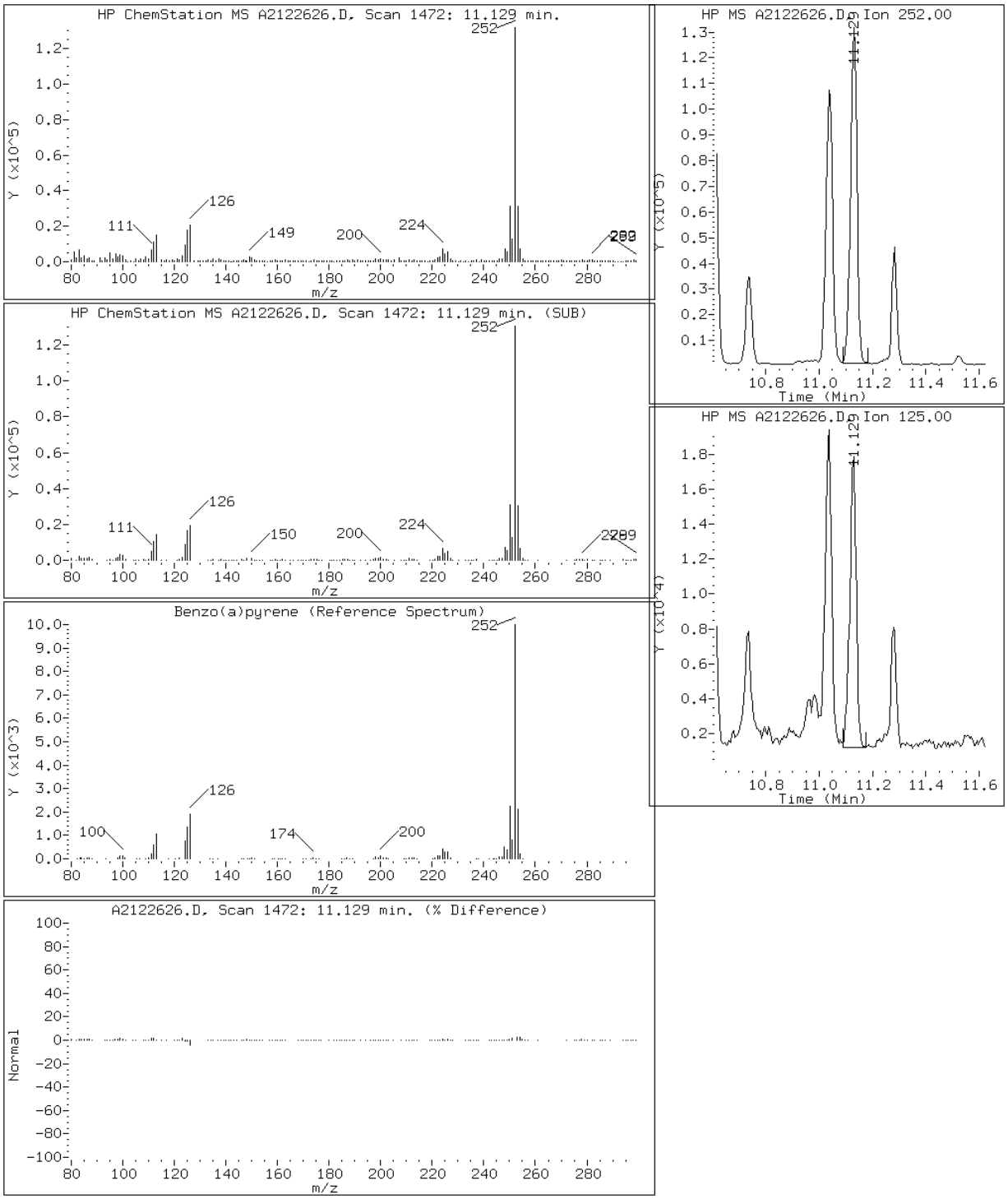
Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



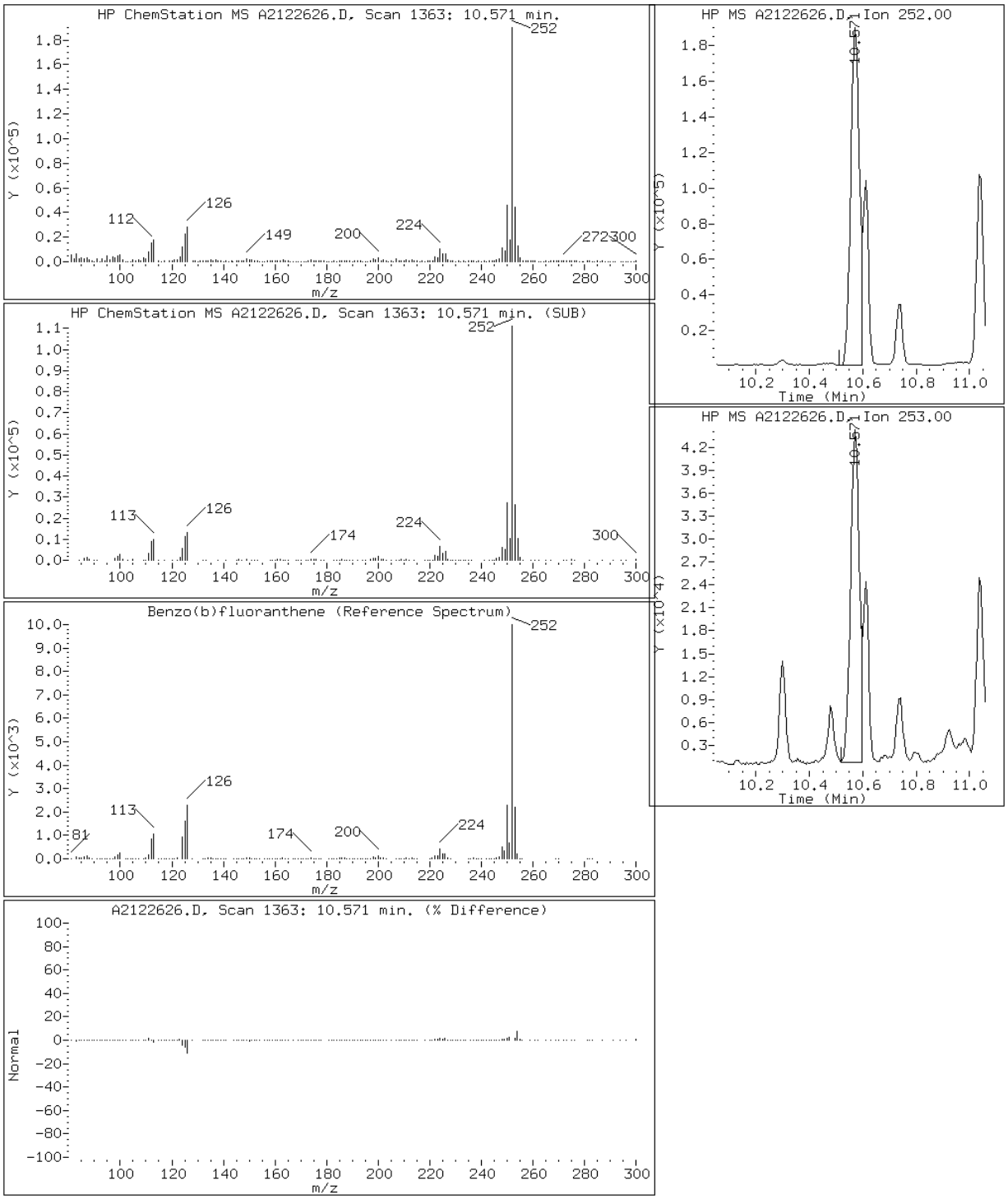
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene



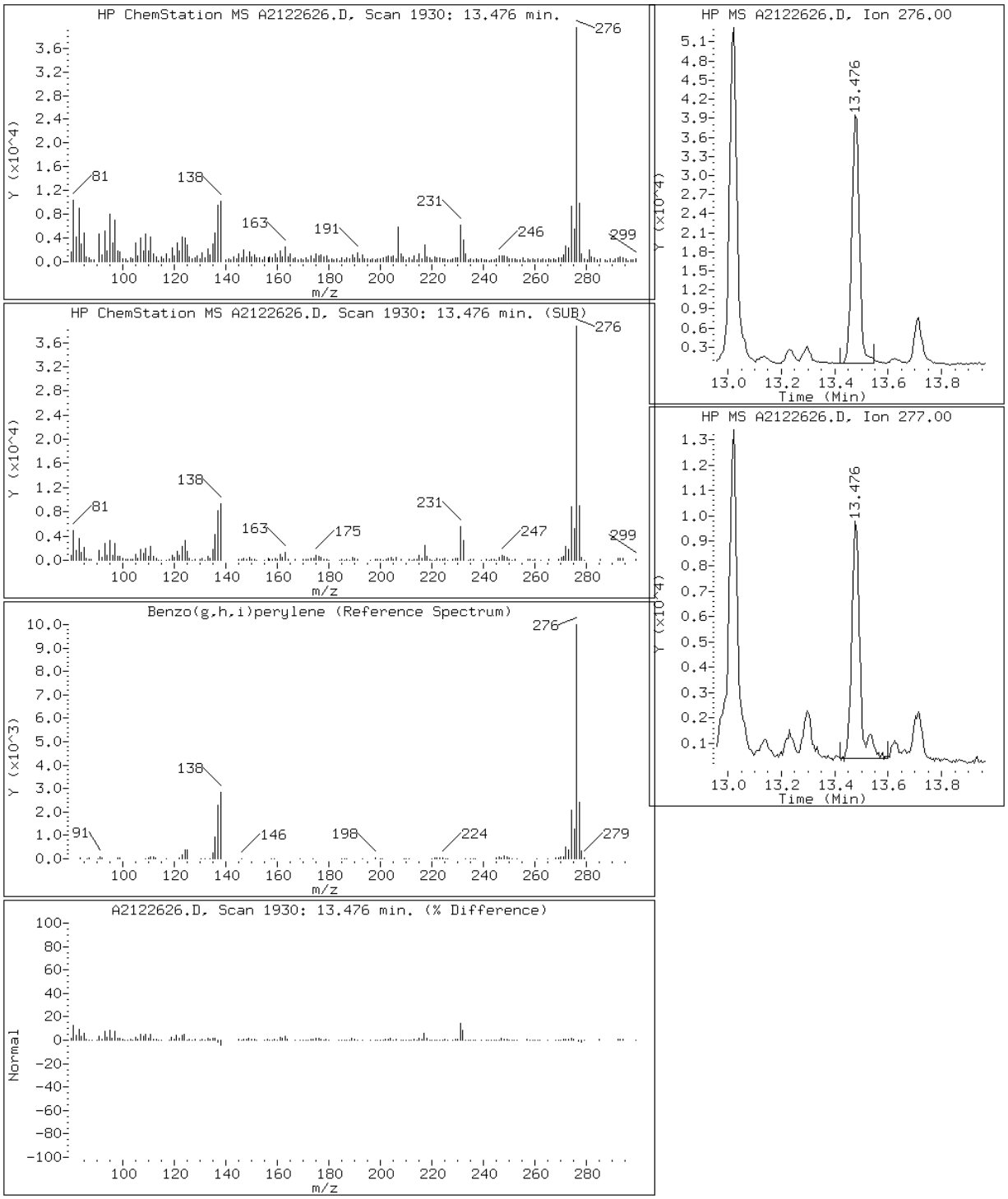
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



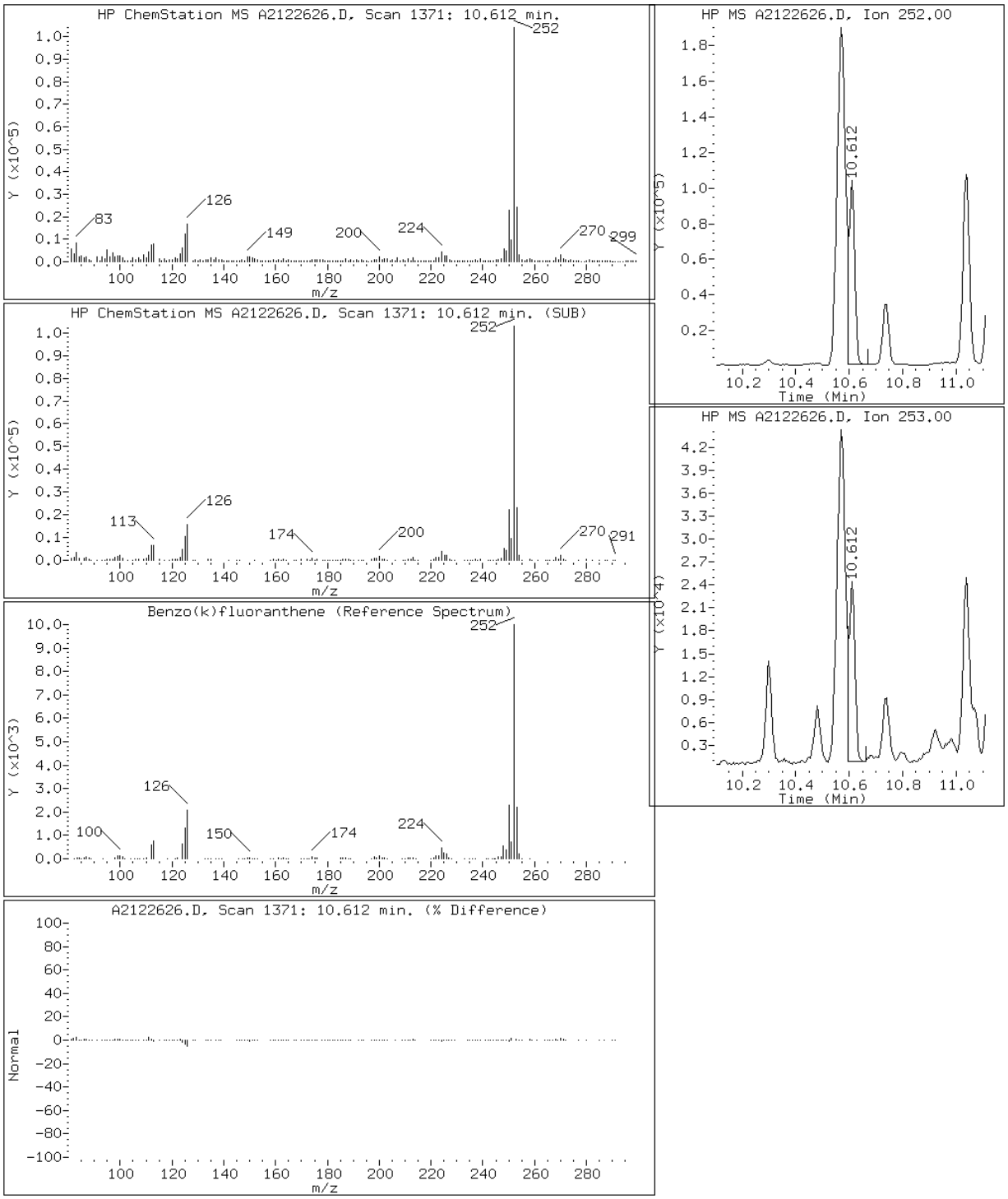
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



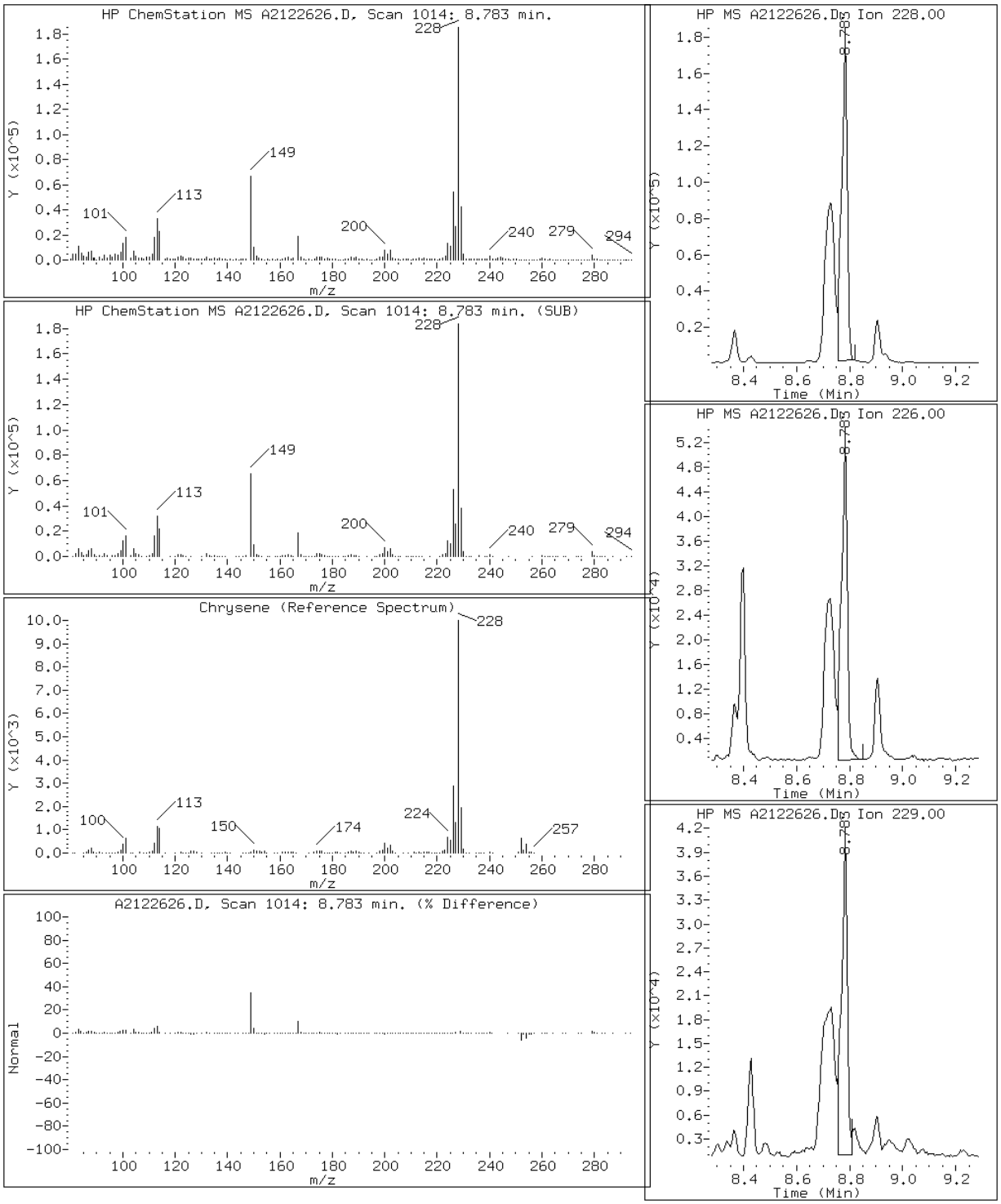
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

17 Chrysene



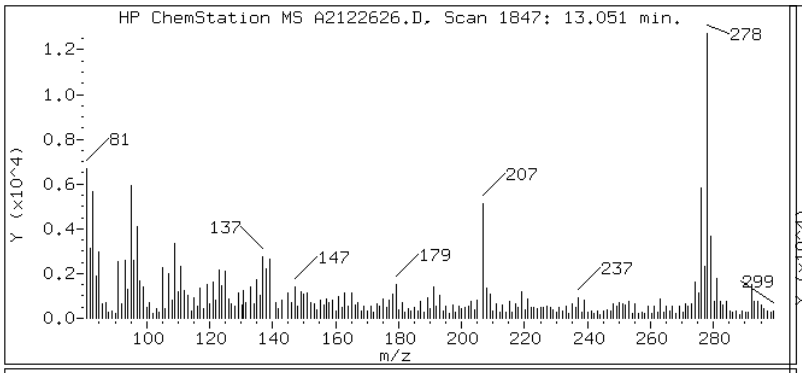
Data File: A2122626.D

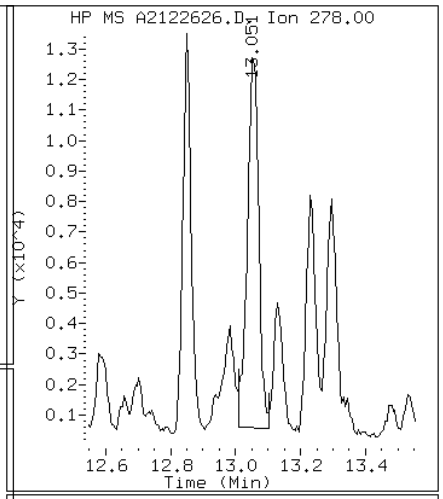
Date: 26-DEC-2012 20:46

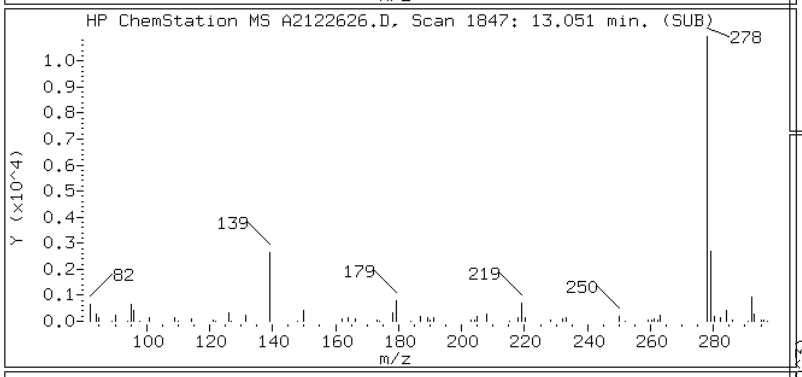
Client ID: CV0511I-CS Instrument: TSMA5973.i

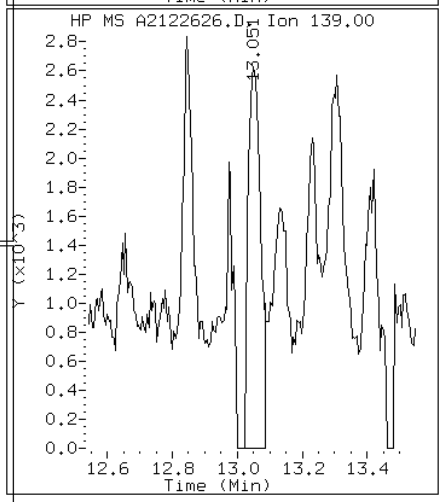
Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

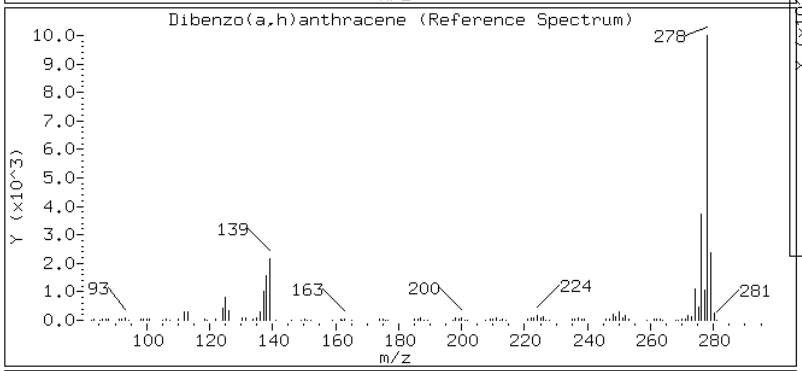
23 Dibenzo(a,h)anthracene

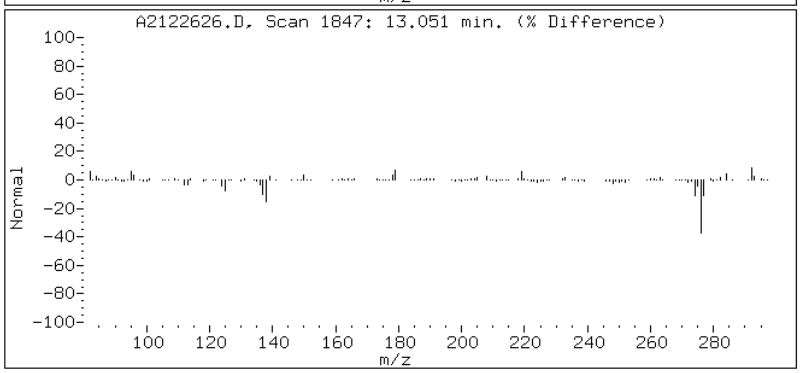












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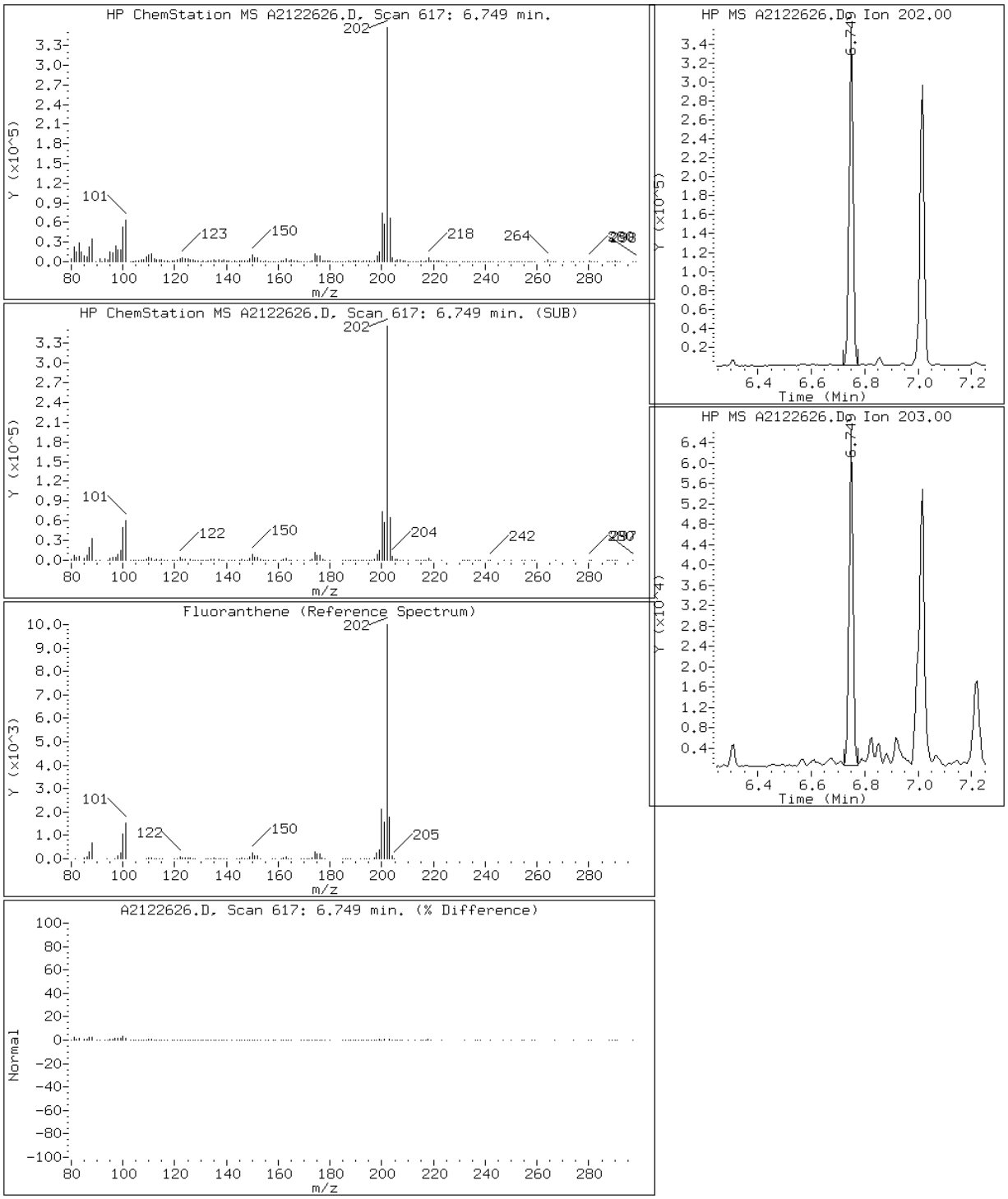
Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



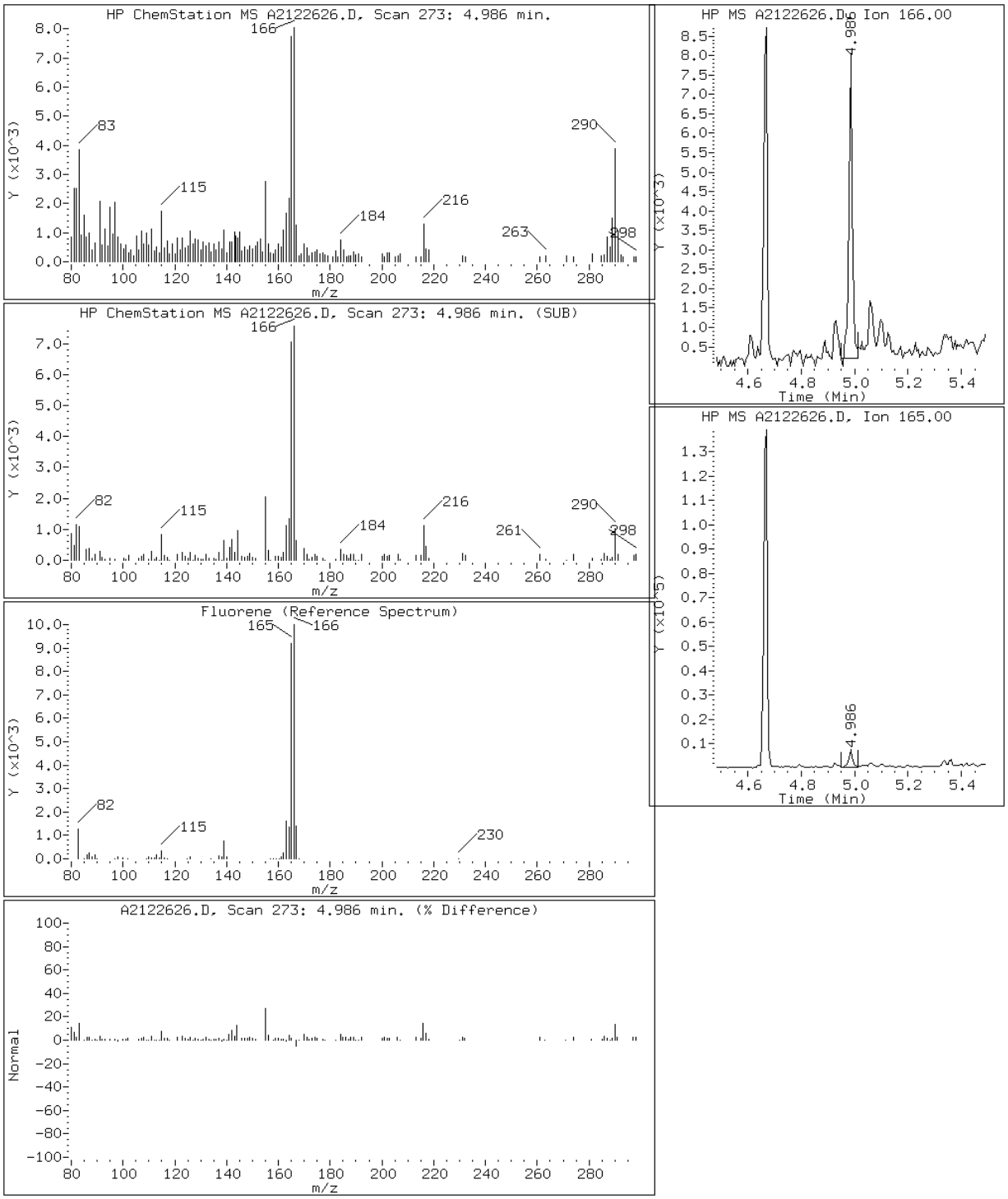
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

8 Fluorene



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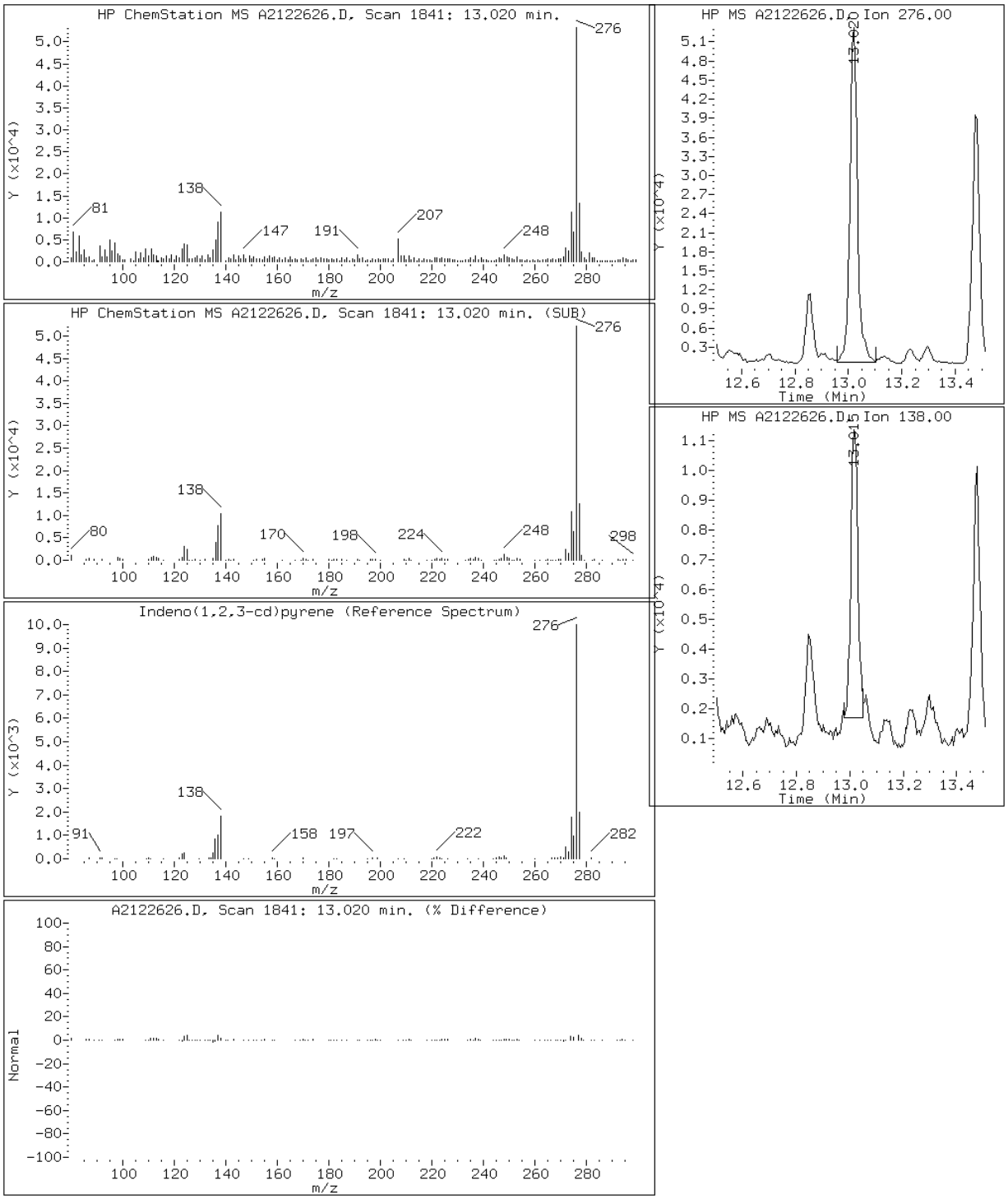
Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

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



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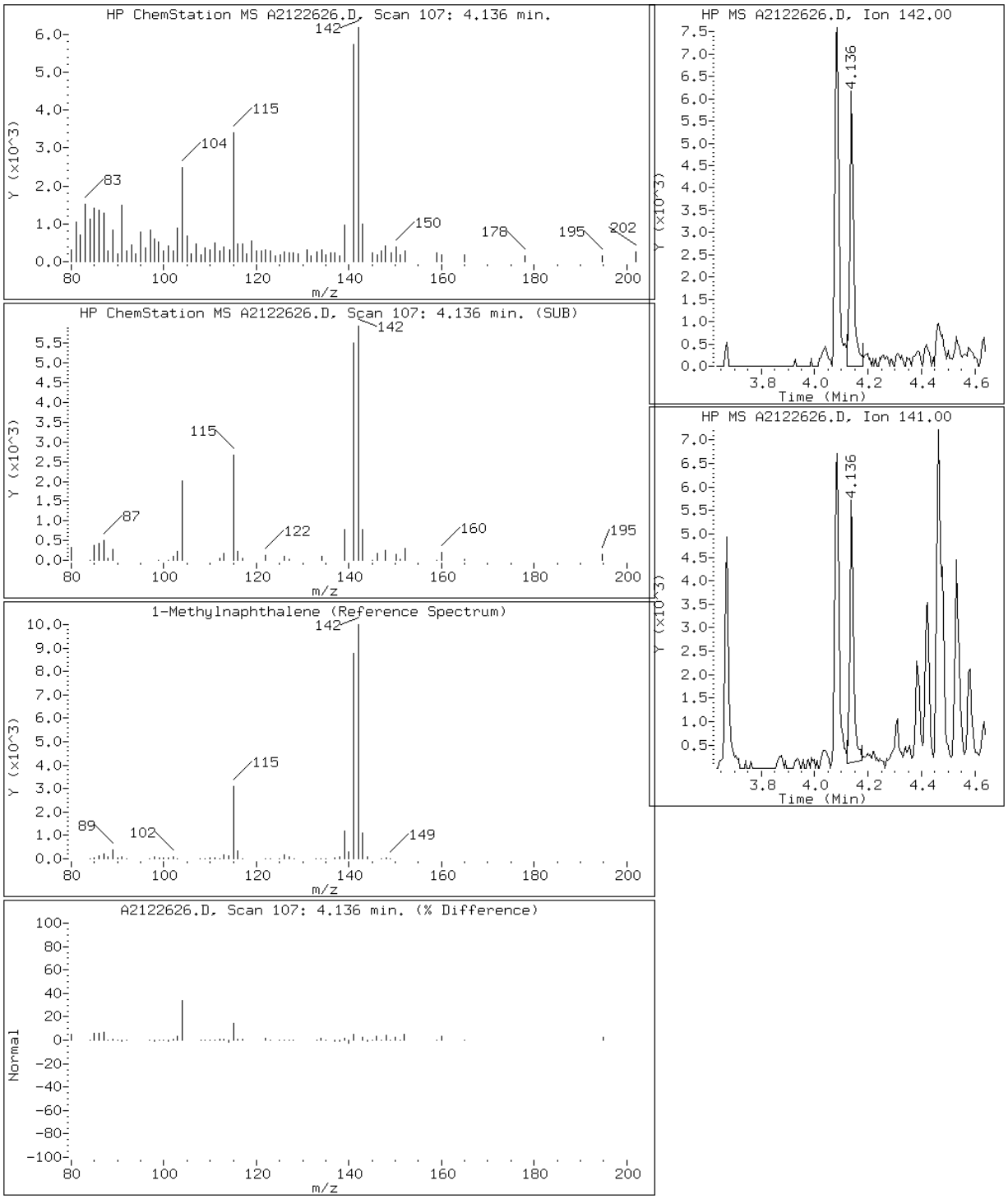
Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



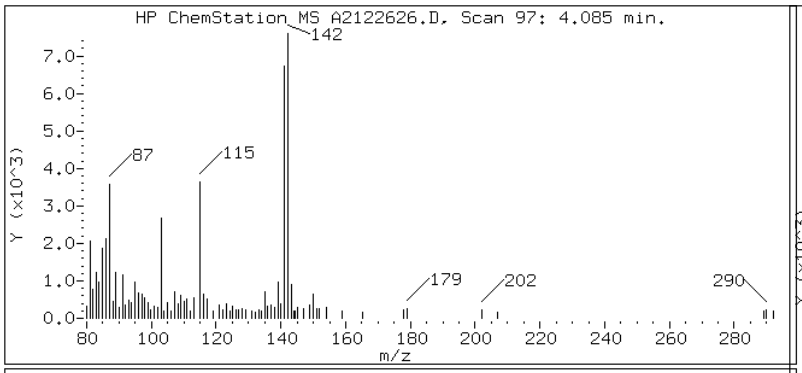
Data File: A2122626.D

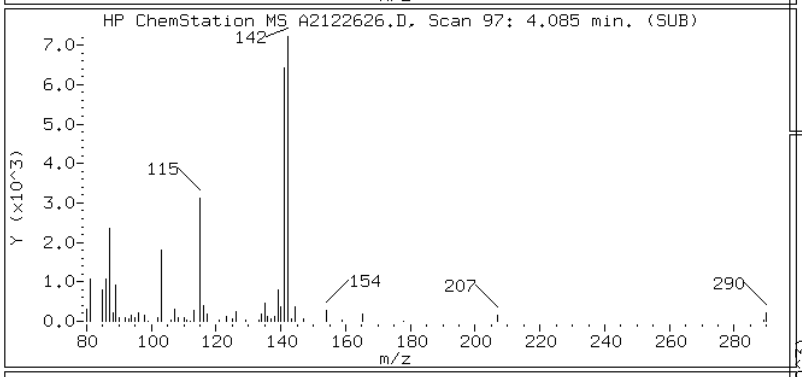
Date: 26-DEC-2012 20:46

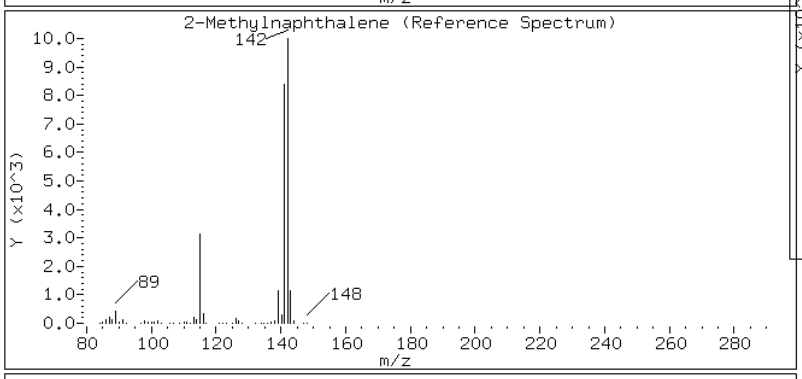
Client ID: CV0511I-CS Instrument: TSMA5973.i

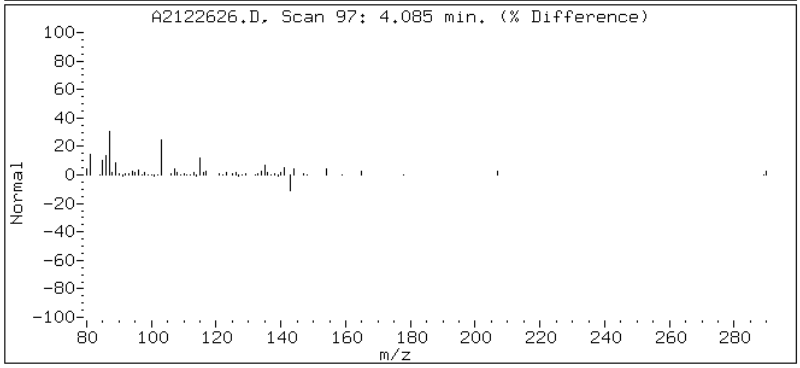
Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

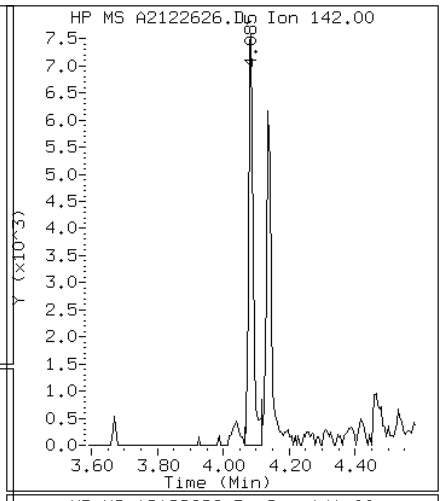
3 2-Methylnaphthalene

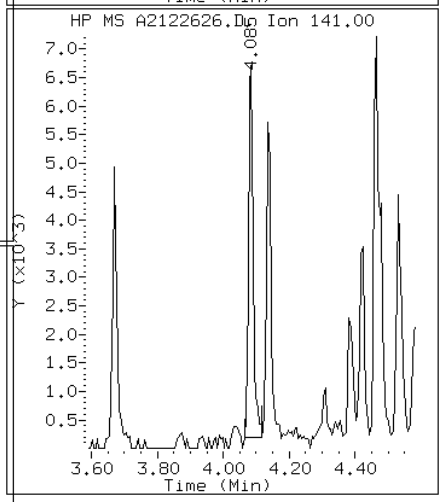












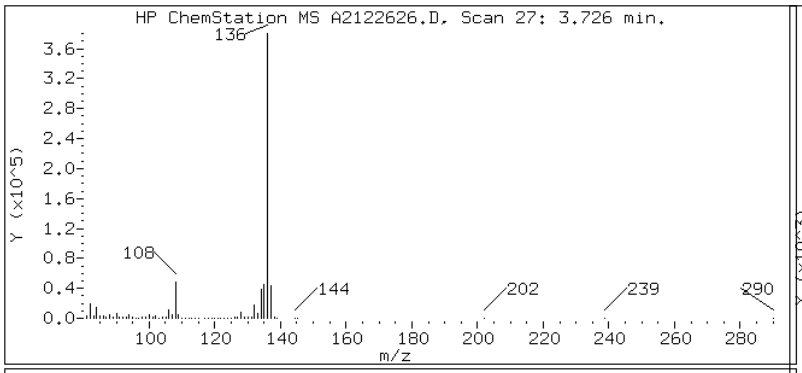
Data File: A2122626.D

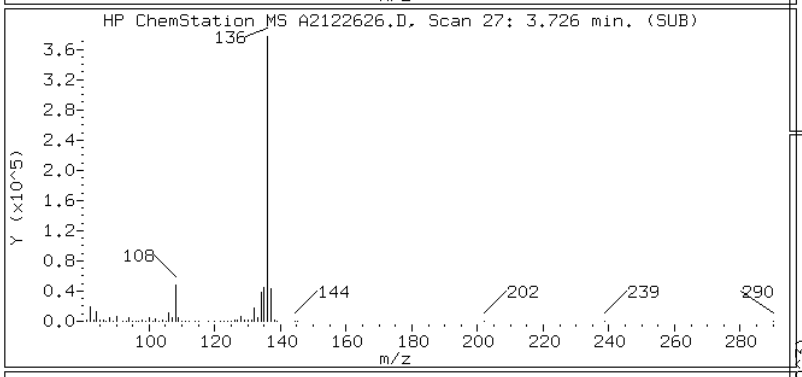
Date: 26-DEC-2012 20:46

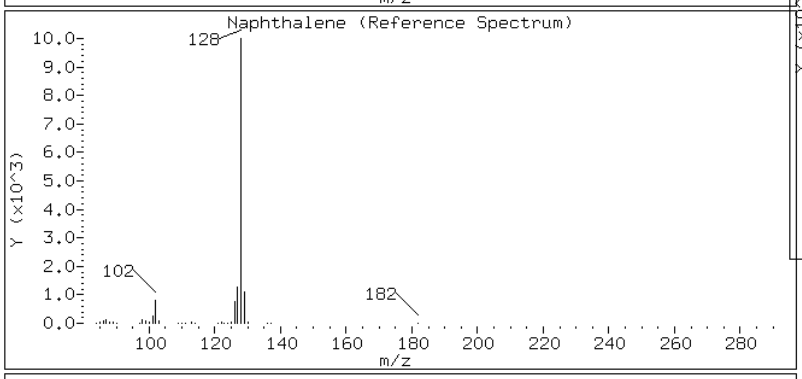
Client ID: CV0511I-CS Instrument: TSMA5973.i

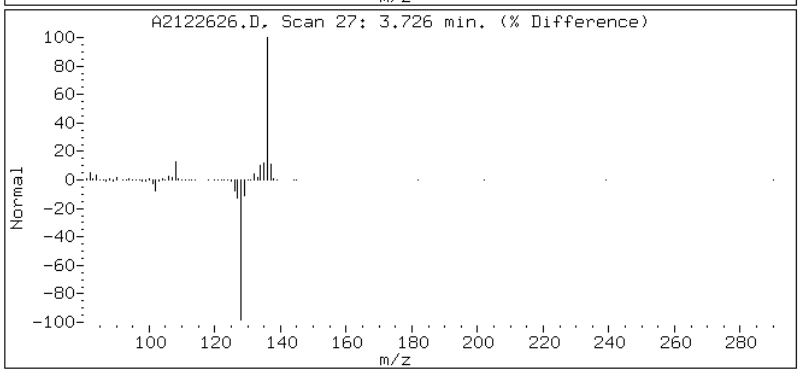
Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

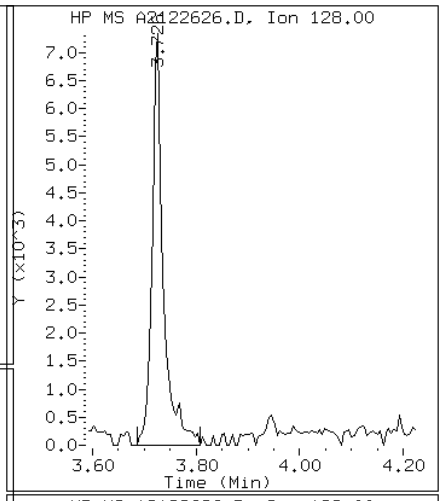
2 Naphthalene

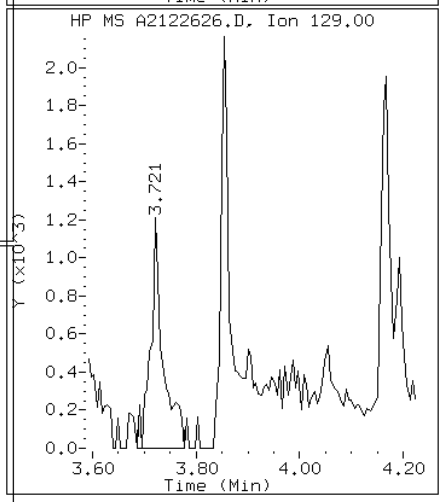












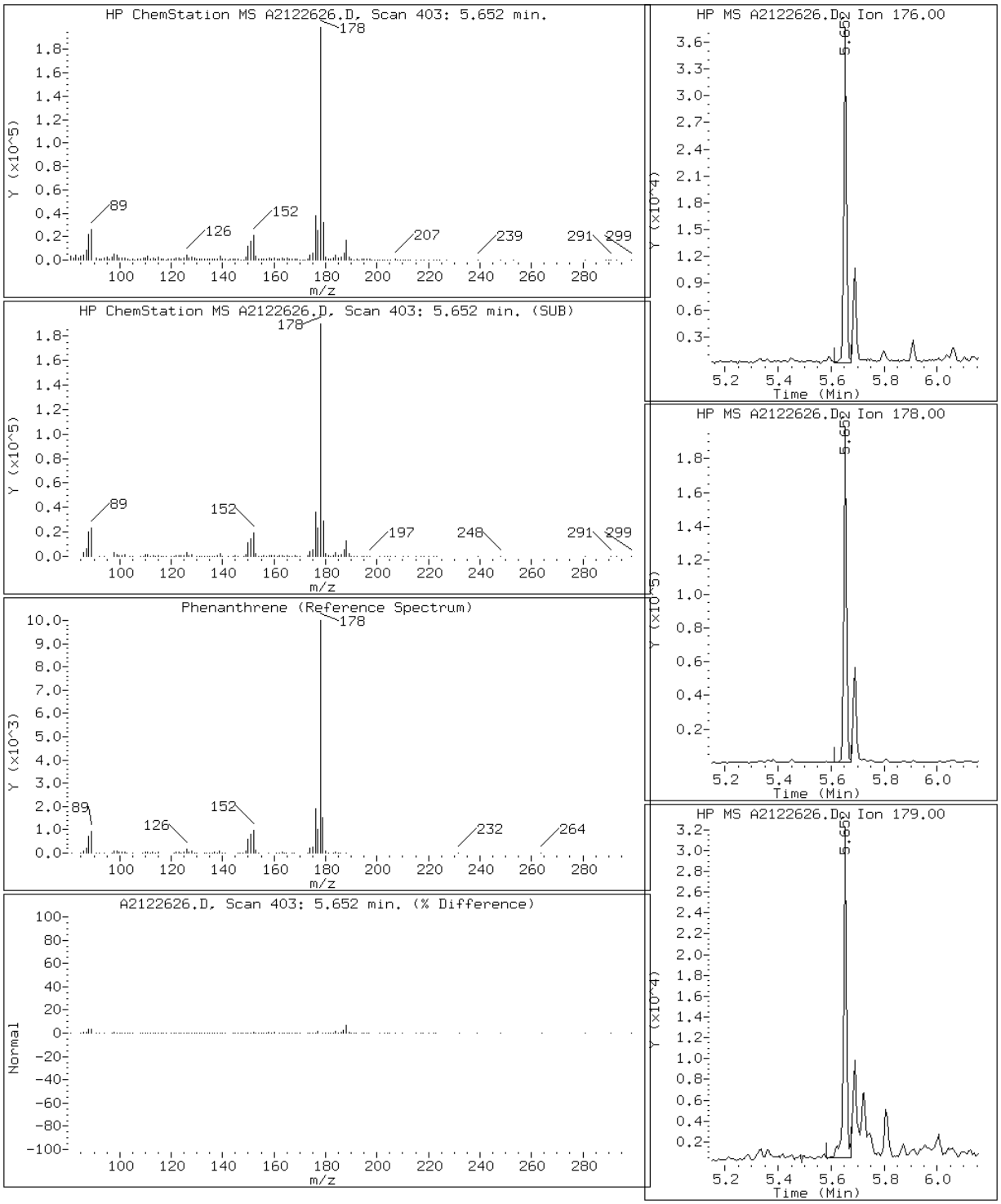
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



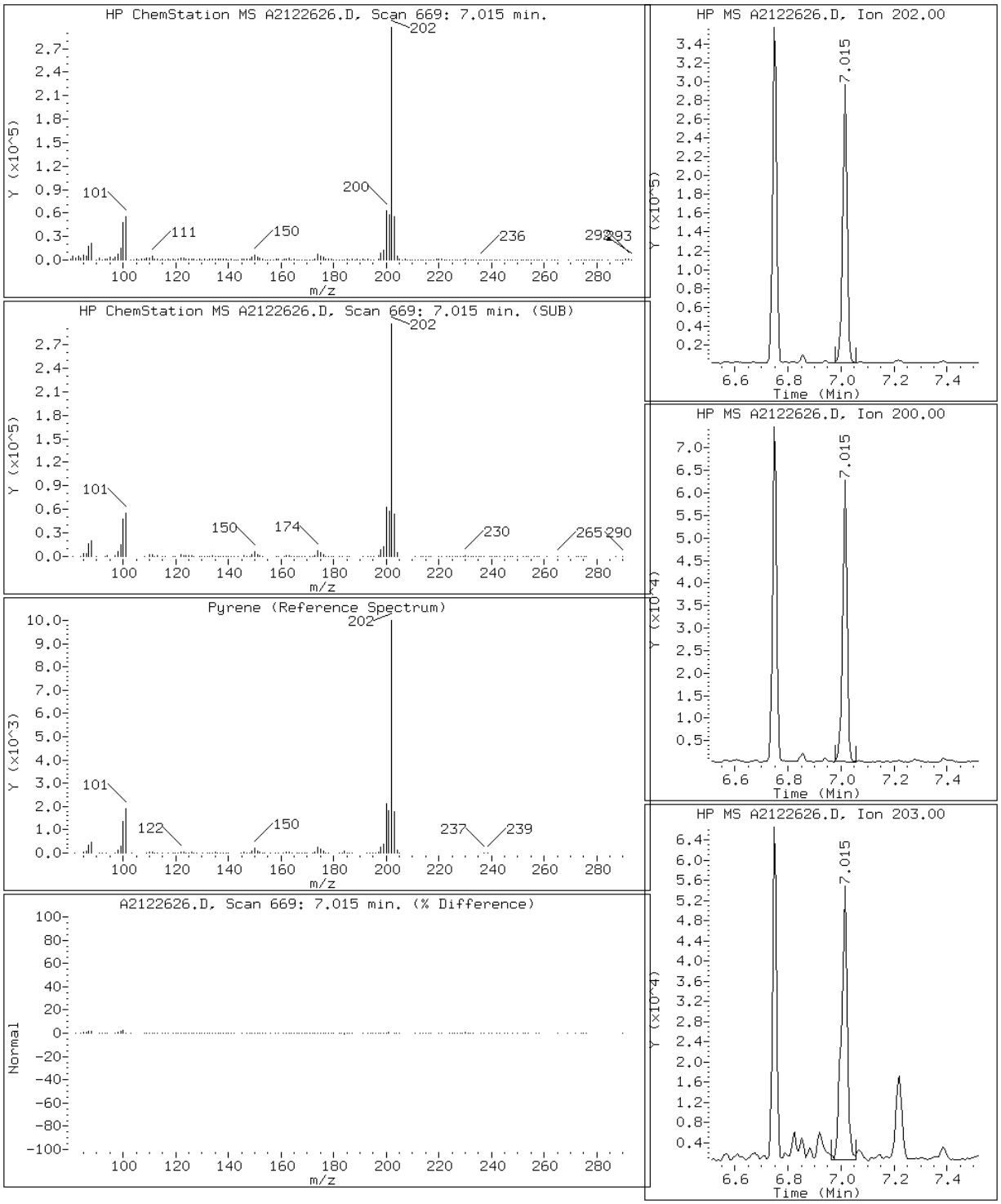
Data File: A2122626.D

Date: 26-DEC-2012 20:46

Client ID: CV0511I-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-42-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511J-CS | Lab Sample ID: 680-85785-43

Matrix: Solid | Lab File ID: A2122627.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:05

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.56(g) | Date Analyzed: 12/26/2012 21:05

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

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

% Moisture: 32.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	11		9.8	0.85
208-96-8	Acenaphthylene	13		9.8	0.78
120-12-7	Anthracene	34		9.8	0.97
56-55-3	Benzo[a]anthracene	150	B	9.8	0.91
50-32-8	Benzo[a]pyrene	220	B	9.8	1.0
205-99-2	Benzo[b]fluoranthene	380	B	9.8	1.4
191-24-2	Benzo[g,h,i]perylene	82	B	9.8	1.6
207-08-9	Benzo[k]fluoranthene	130	B	9.8	0.94
218-01-9	Chrysene	190	B	9.8	1.1
53-70-3	Dibenz(a,h)anthracene	30	B	9.8	0.95
206-44-0	Fluoranthene	240	B	9.8	0.88
86-73-7	Fluorene	11		9.8	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	100	B	9.8	1.6
90-12-0	1-Methylnaphthalene	20		9.8	0.78
91-57-6	2-Methylnaphthalene	27		9.8	0.76
91-20-3	Naphthalene	24		9.8	0.76
85-01-8	Phenanthrene	140		9.8	0.64
129-00-0	Pyrene	210	B	9.8	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	78		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122627.D
Lab Smp Id: 680-85785-A-43-A Client Smp ID: CV0511J-CS
Inj Date : 26-DEC-2012 21:05
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-43-A~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: 9
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	30.560	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)	1527083	40.0000		
2 Naphthalene	128	3.712	3.721	(1.003)	21382	0.49712	16	
3 2-Methylnaphthalene	142	4.075	4.079	(1.101)	14854	0.54646	18	
4 1-Methylnaphthalene	142	4.132	4.136	(1.116)	11691	0.41560	14	
* 5 Acenaphthene-d10	164	4.665	4.663	(1.000)	816647	40.0000		
6 Acenaphthylene	152	4.583	4.587	(0.982)	12092	0.27629	9.0	
7 Acenaphthene	153	4.680	4.684	(1.003)	5998	0.22241	7.3(Q)	
8 Fluorene	166	4.982	4.986	(1.068)	6741	0.21936	7.2	
* 9 Phenanthrene-d10	188	5.638	5.637	(1.000)	1264822	40.0000		
10 Phenanthrene	176	5.654	5.652	(1.003)	24005	2.91305	95	
11 Anthracene	178	5.689	5.688	(1.009)	29763	0.68868	22	
$ 12 o-Terphenyl	230	5.910	5.909	(1.048)	82932	3.10255	100	
13 Fluoranthene	202	6.750	6.749	(1.197)	250827	4.99529	160	
* 14 Chrysene-d12	240	8.753	8.747	(1.000)	1542625	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	7.016	7.015	(0.802)	225682	4.29247	140	
16 Benzo(a)anthracene	226	8.717	8.711	(0.996)	43152	3.06946	100(Q)	
17 Chrysene	228	8.784	8.783	(1.004)	188133	3.93502	130	
* 18 Perylene-d12	264	11.253	11.252	(1.000)	1023155	40.0000		
19 Benzo(b)fluoranthene	252	10.562	10.555	(0.939)	245401	7.77749	250	
20 Benzo(k)fluoranthene	252	10.608	10.607	(0.943)	88488	2.74592	90	
21 Benzo(a)pyrene	252	11.125	11.119	(0.989)	126529	4.43813	140	
22 Indeno(1,2,3-cd)pyrene	276	13.016	13.010	(1.157)	59059	2.05553	67	
23 Dibenzo(a,h)anthracene	278	13.052	13.051	(1.160)	18010	0.61872	20	
24 Benzo(g,h,i)perylene	276	13.472	13.460	(1.197)	47601	1.67231	55	

QC Flag Legend

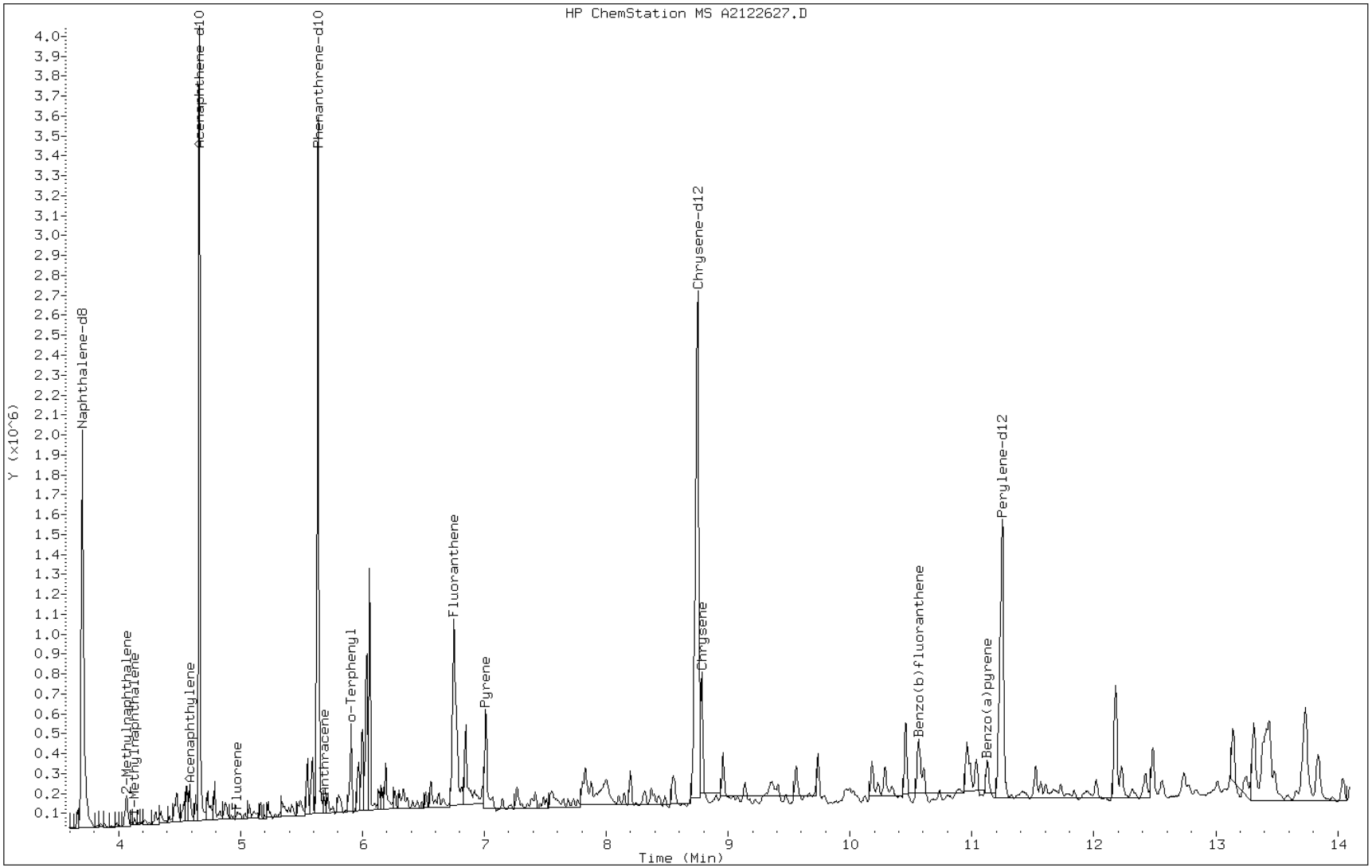
Q - Qualifier signal failed the ratio test.

Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW



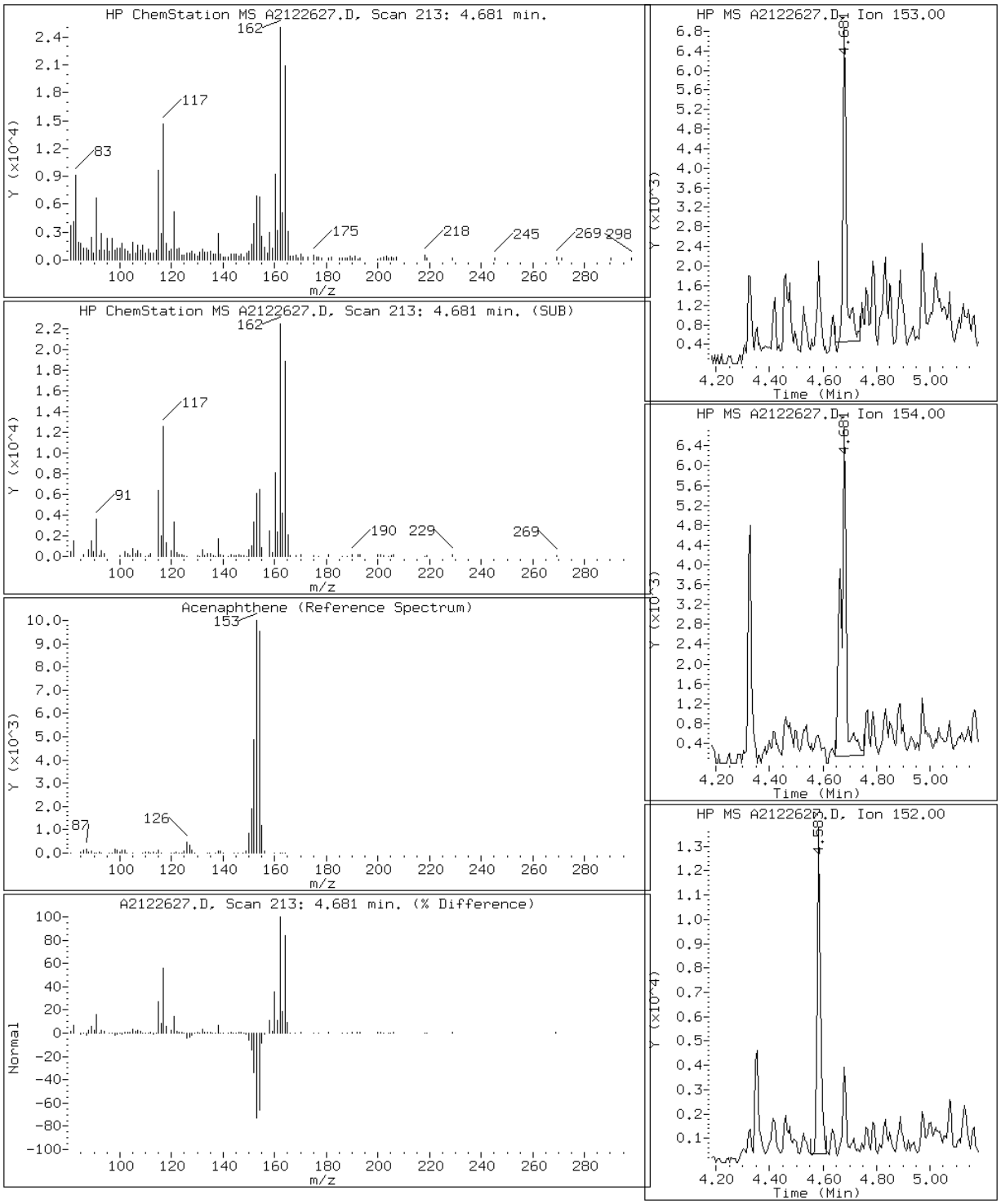
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



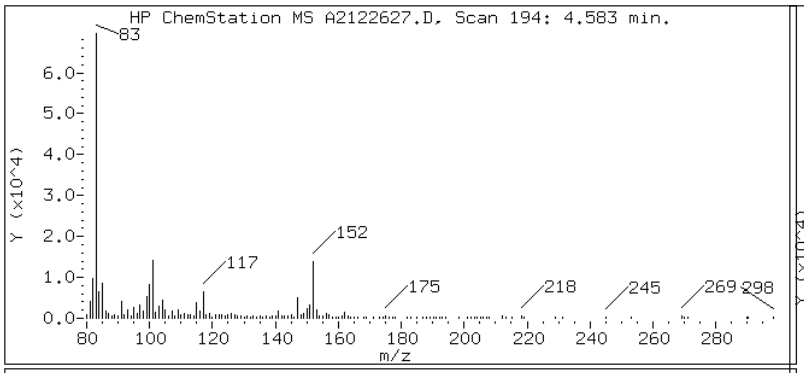
Data File: A2122627.D

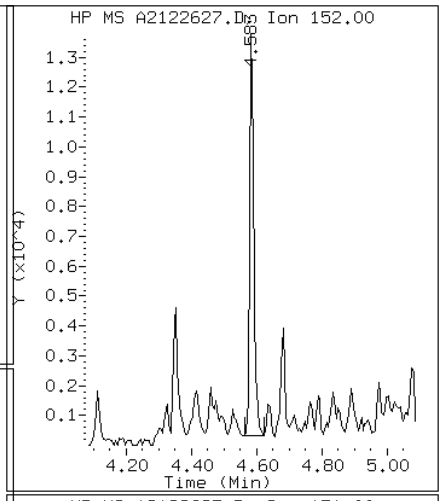
Date: 26-DEC-2012 21:05

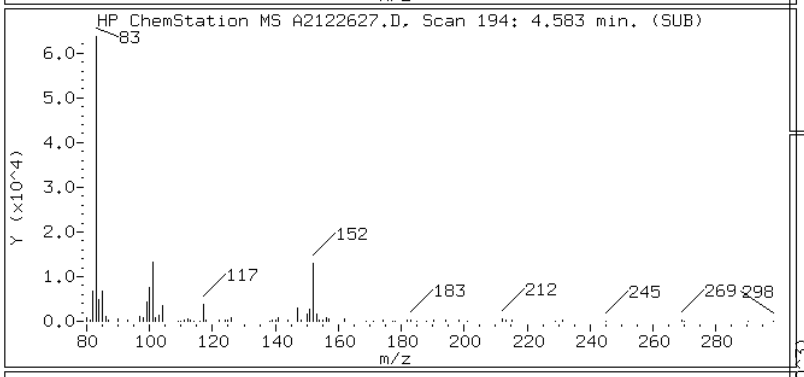
Client ID: CV0511J-CS Instrument: TSMA5973.i

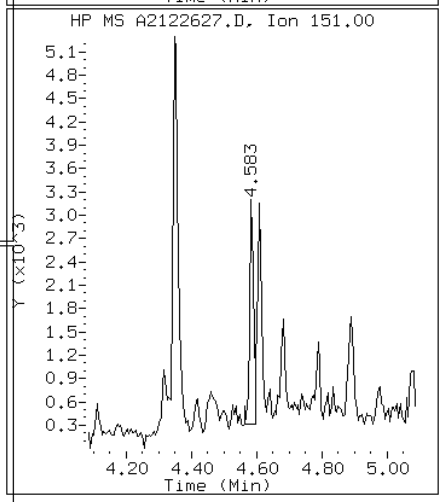
Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

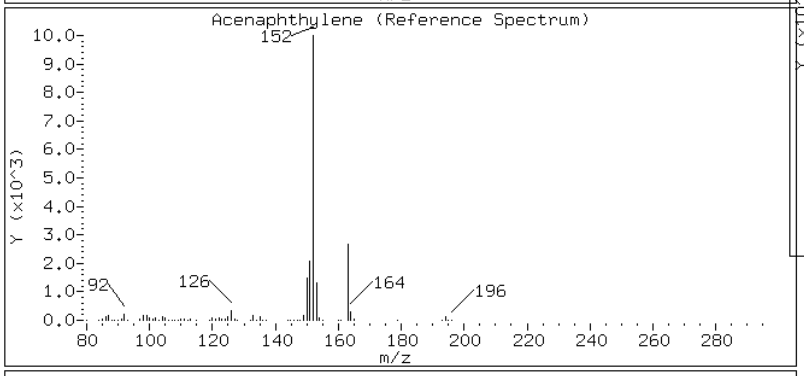
6 Acenaphthylene

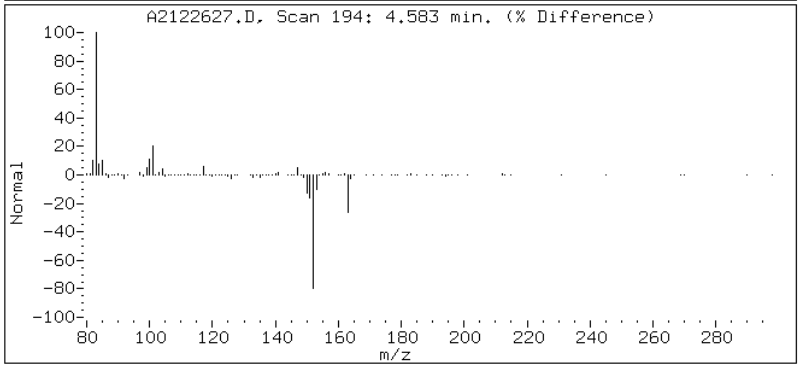












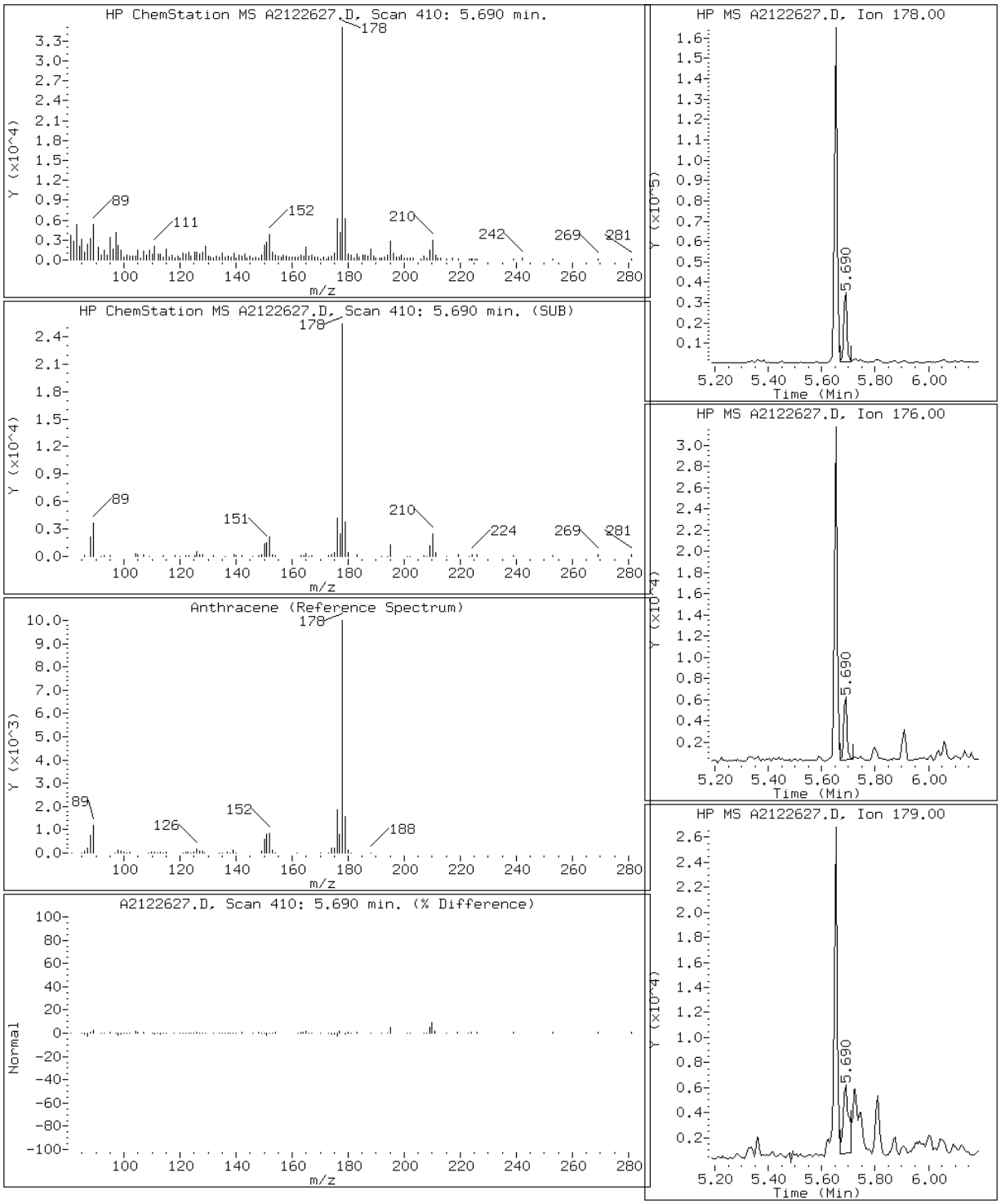
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

11 Anthracene



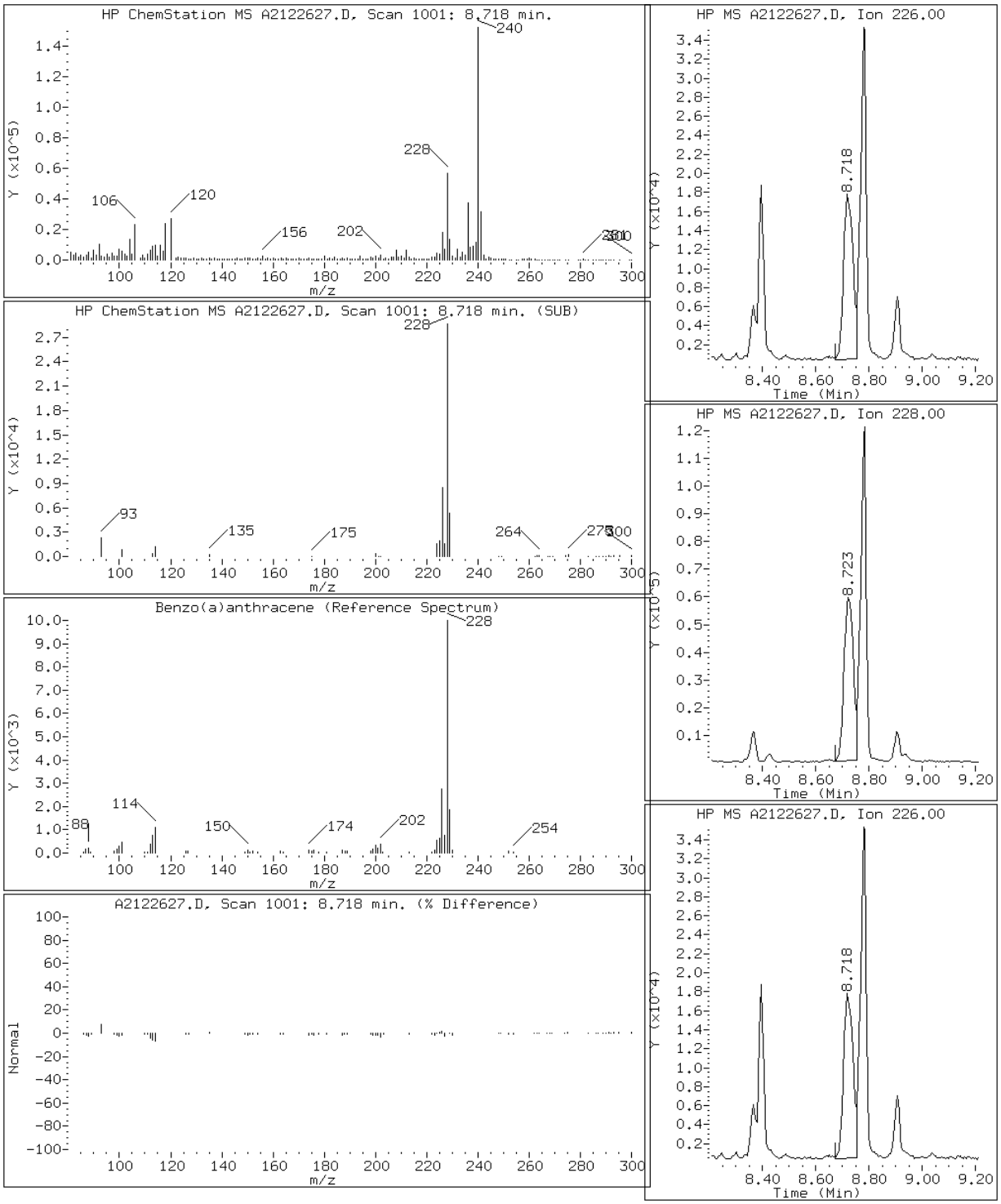
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



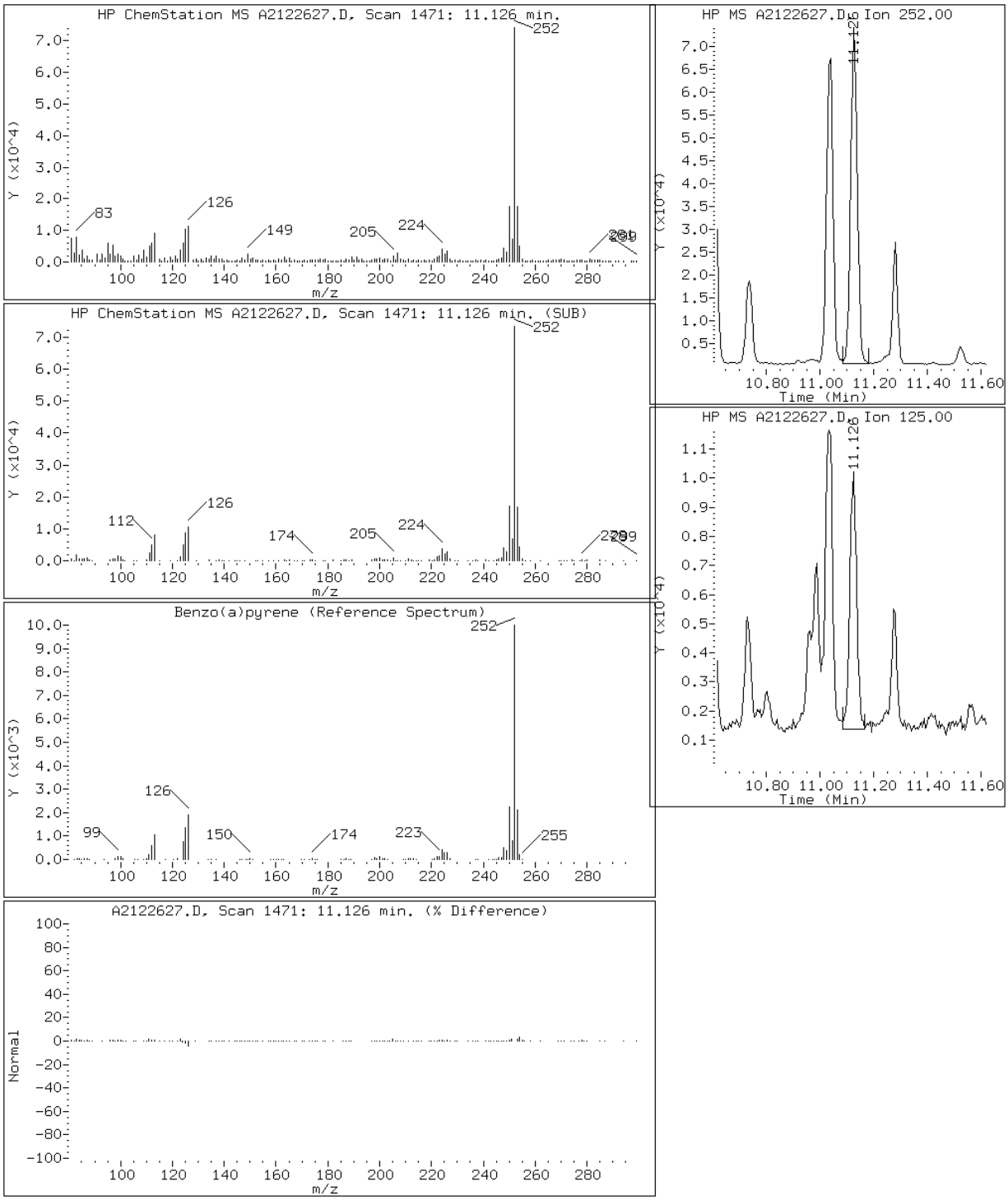
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



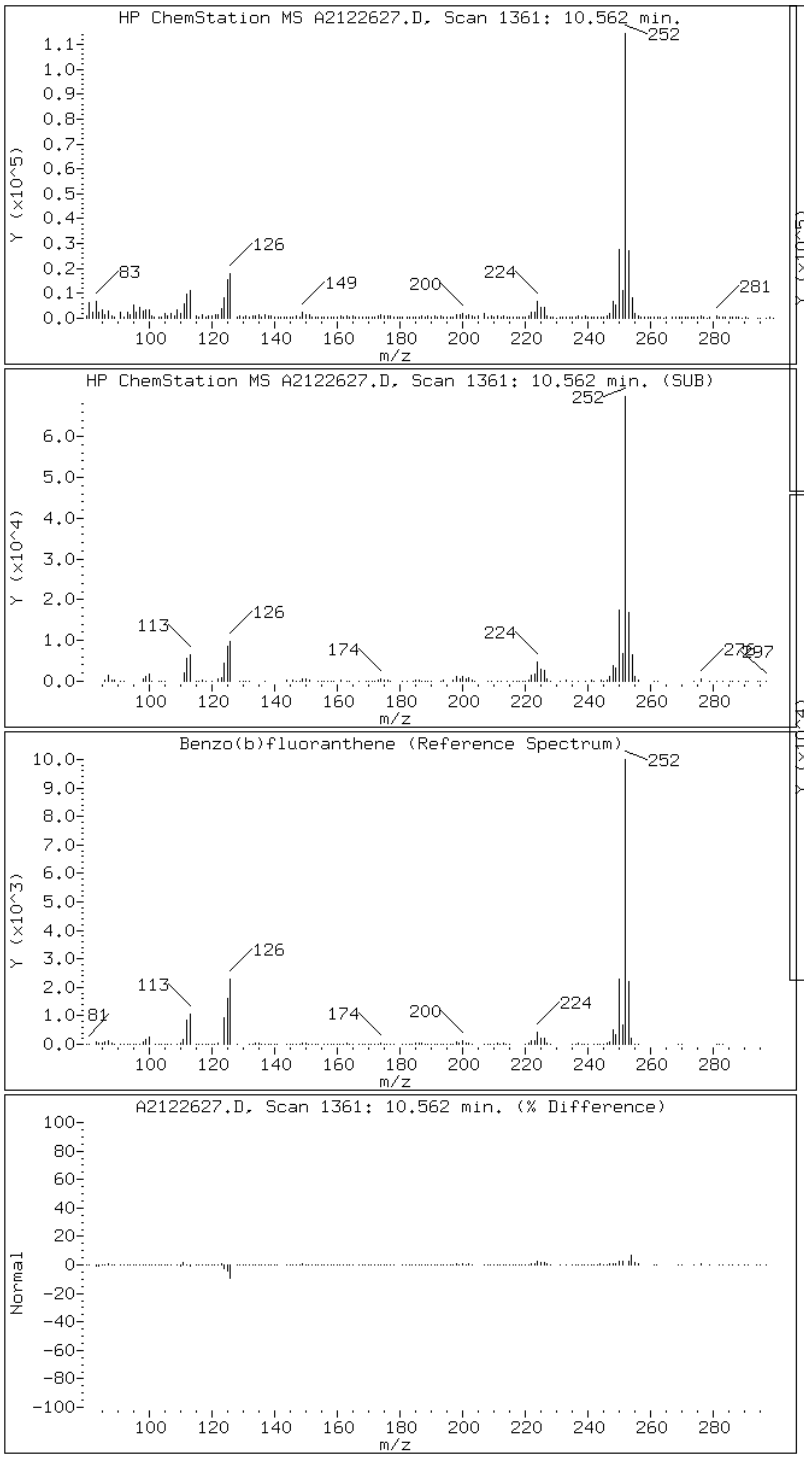
Data File: A2122627.D

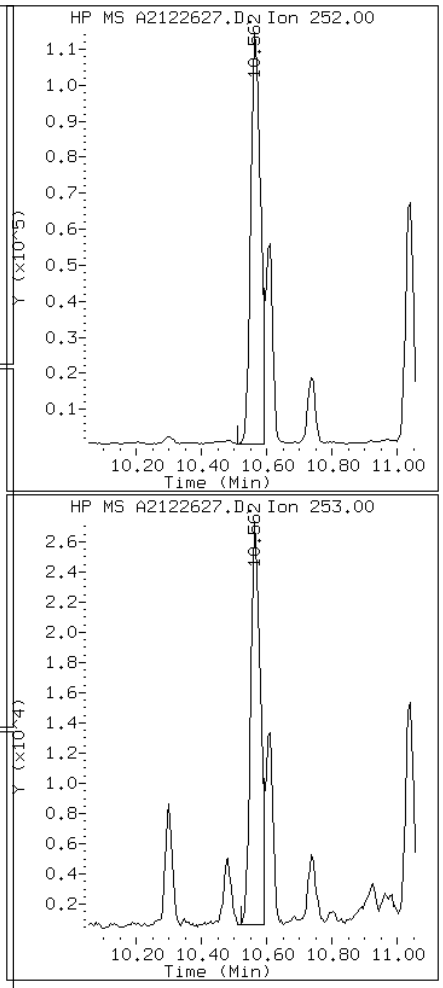
Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





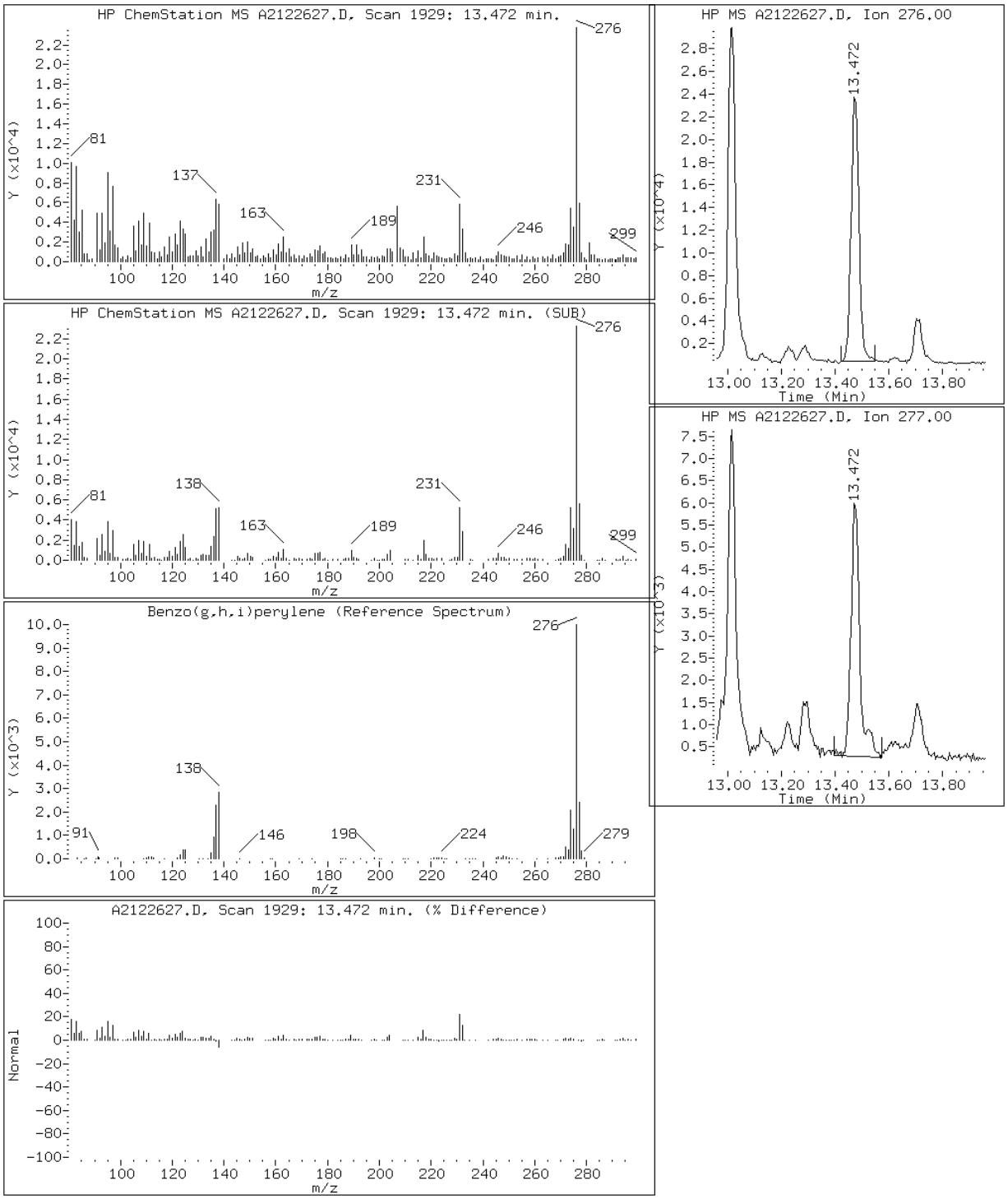
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



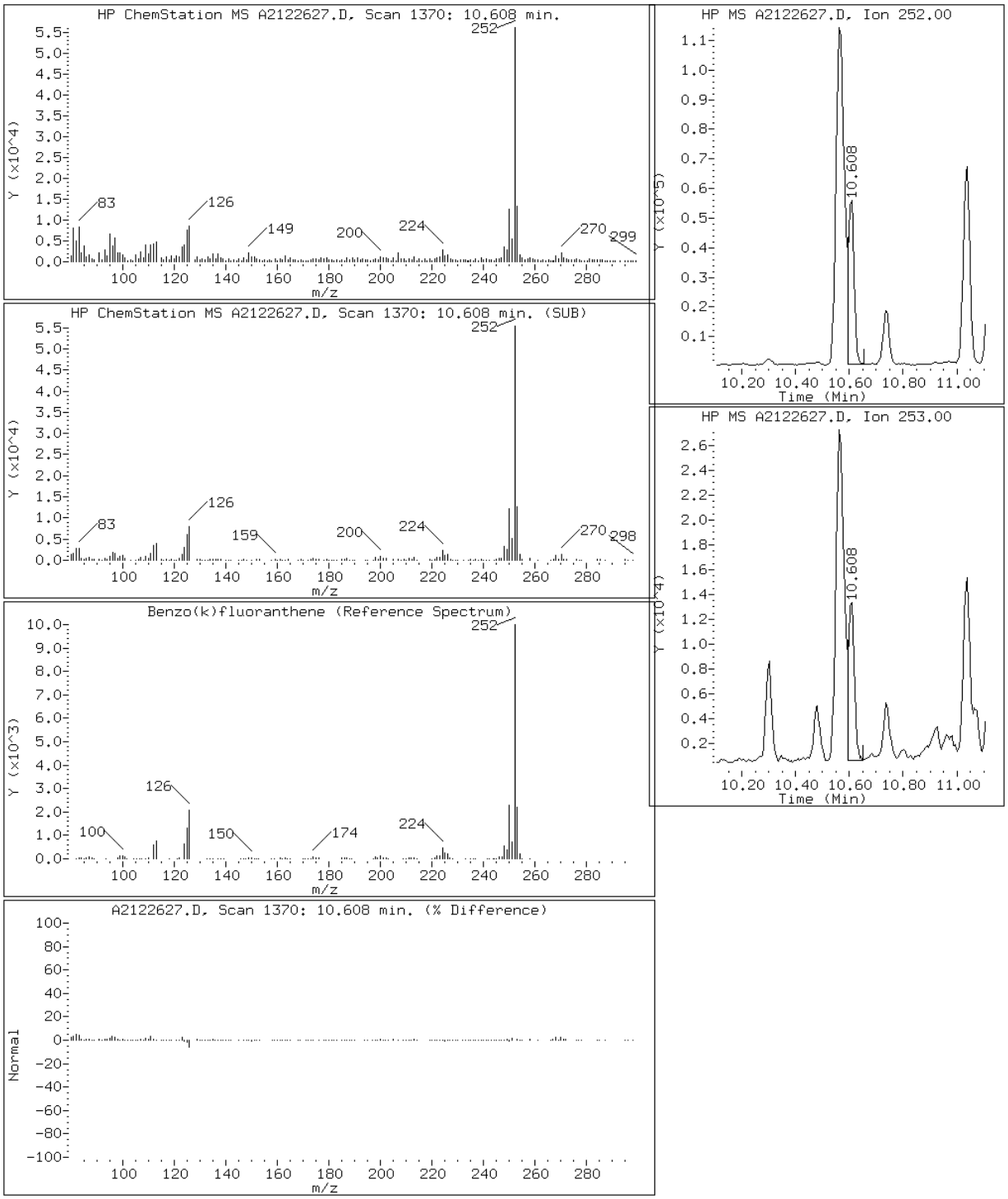
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



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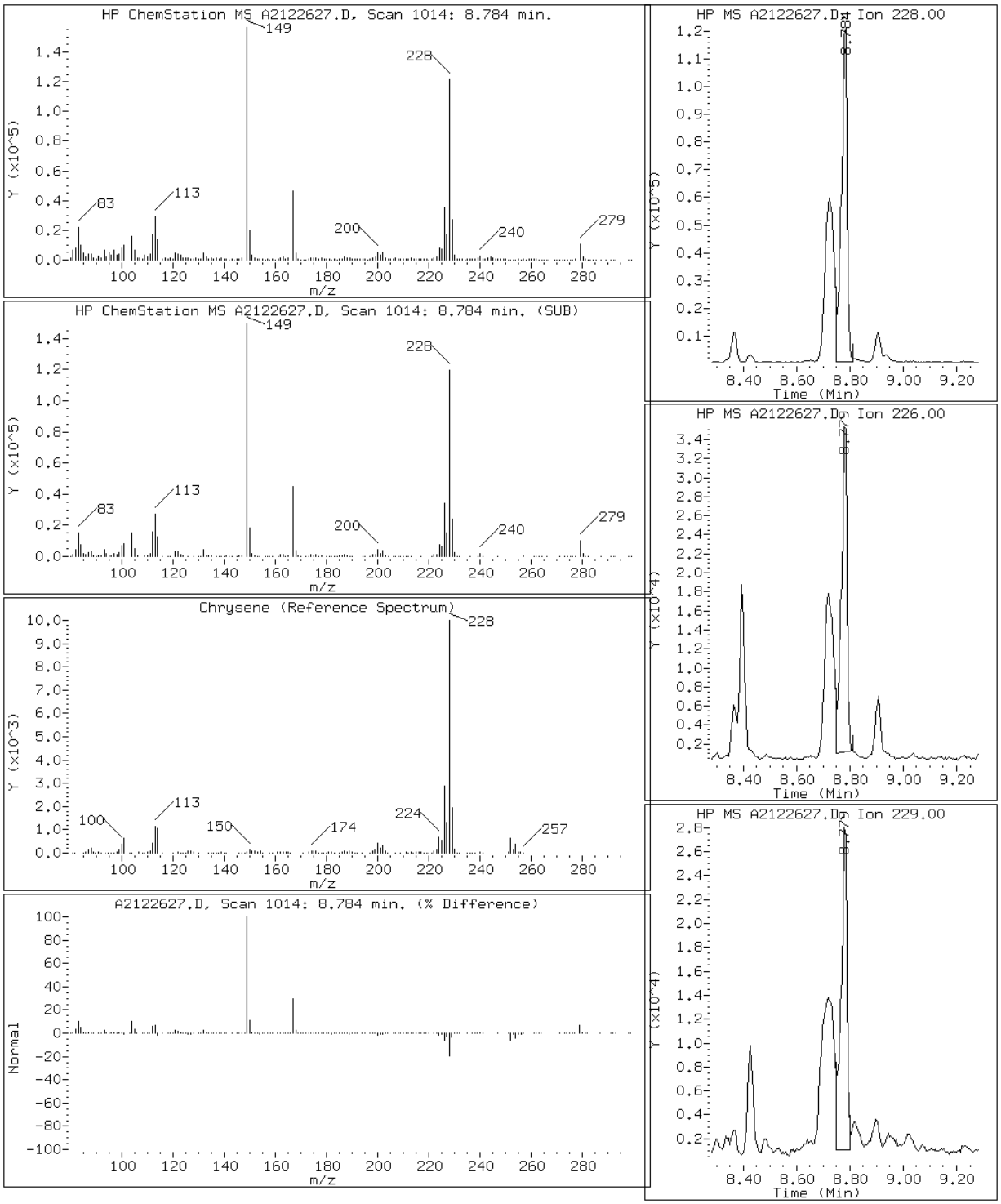
Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

17 Chrysene



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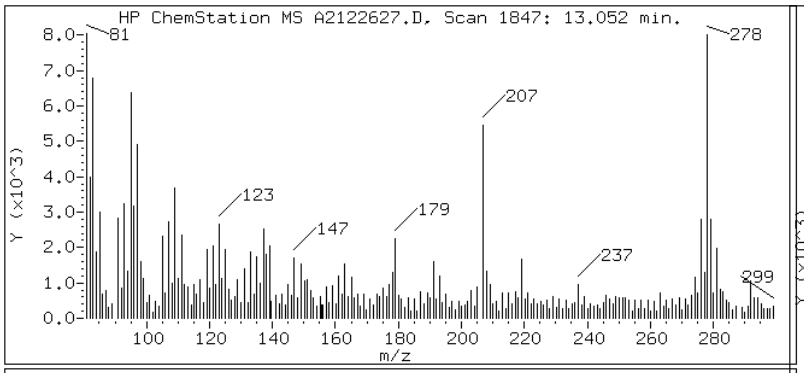
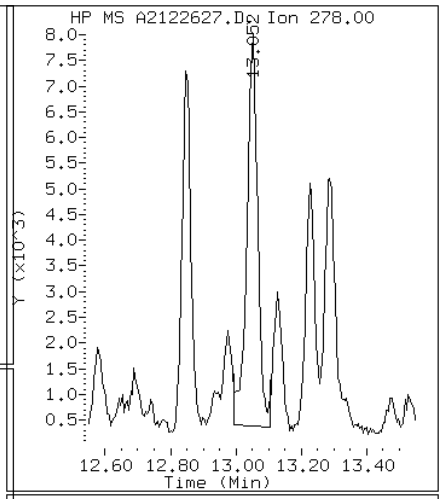
Date: 26-DEC-2012 21:05

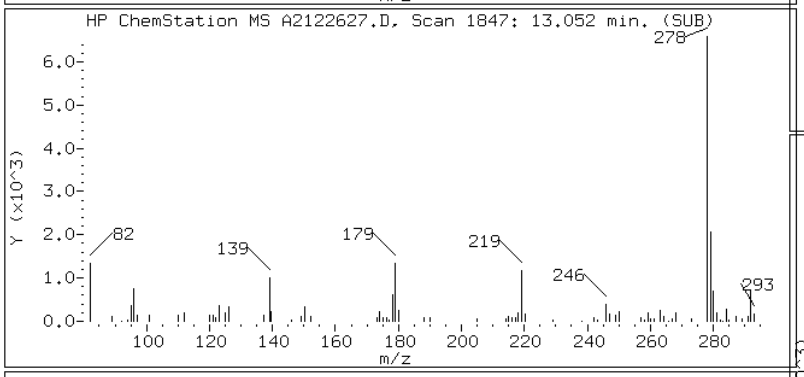
Client ID: CV0511J-CS Instrument: TSMA5973.i

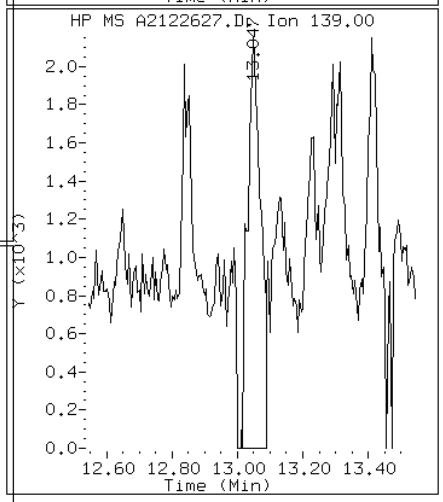
Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

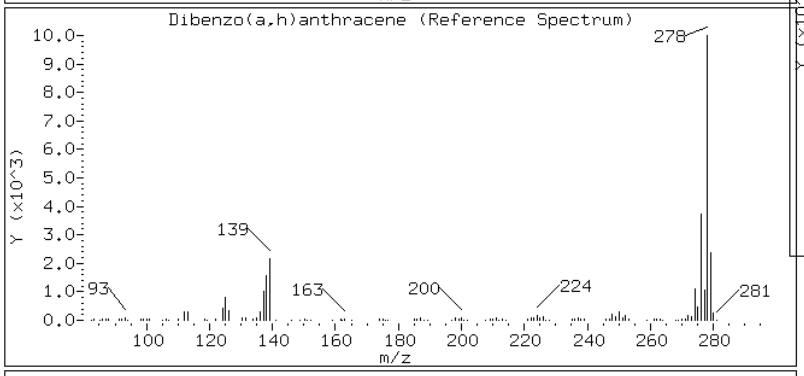
23 Dibenzo(a,h)anthracene

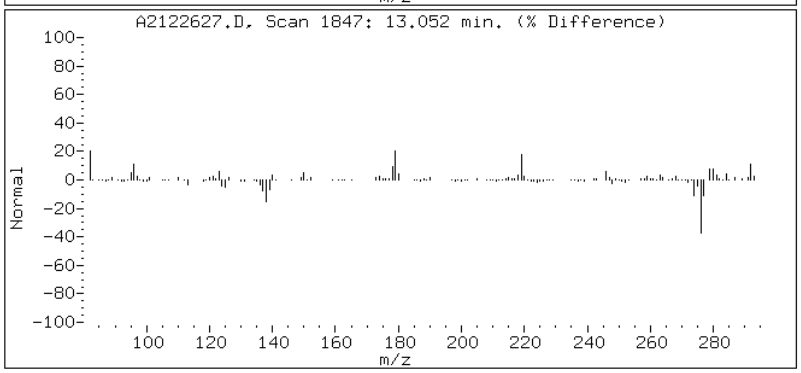












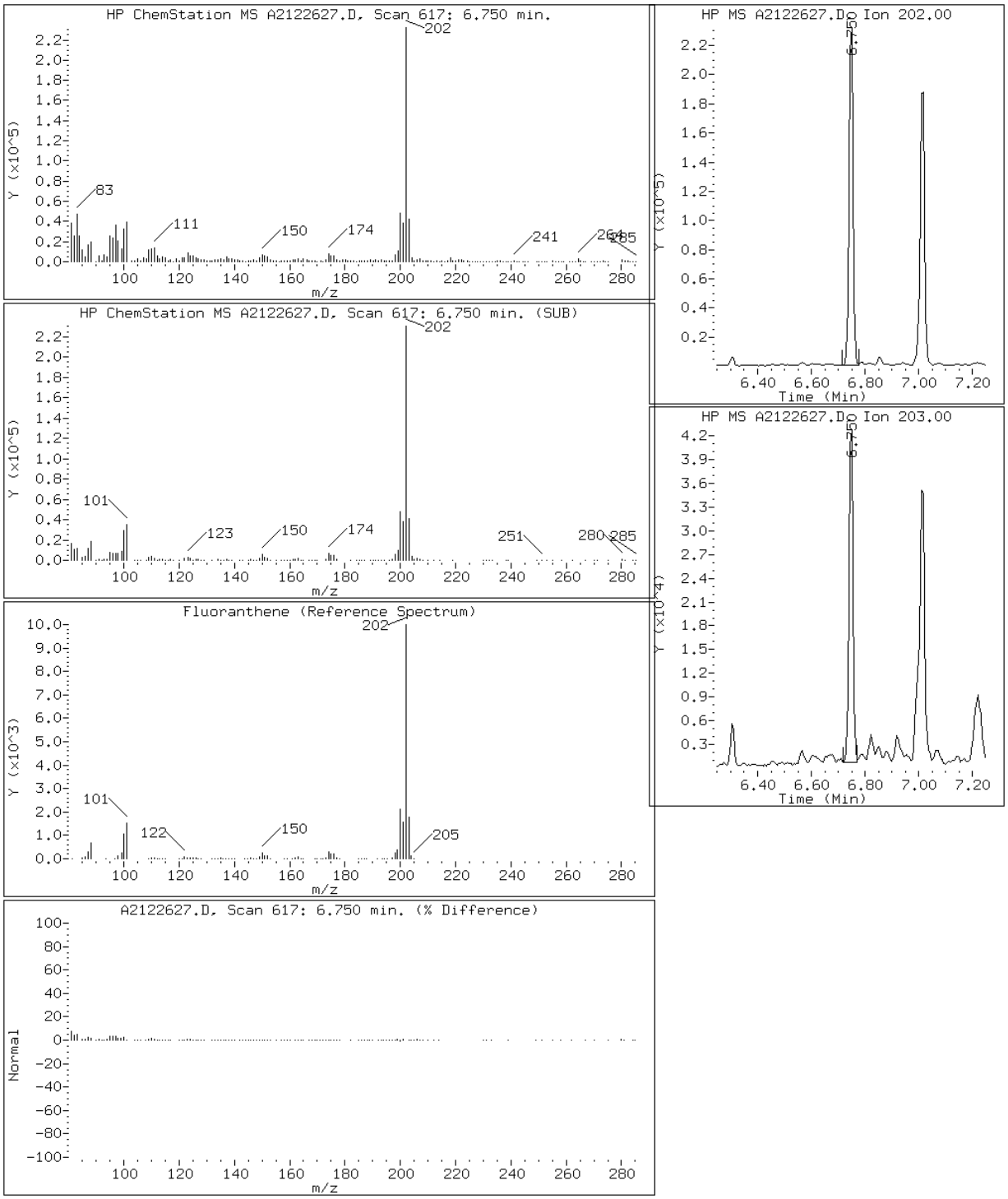
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



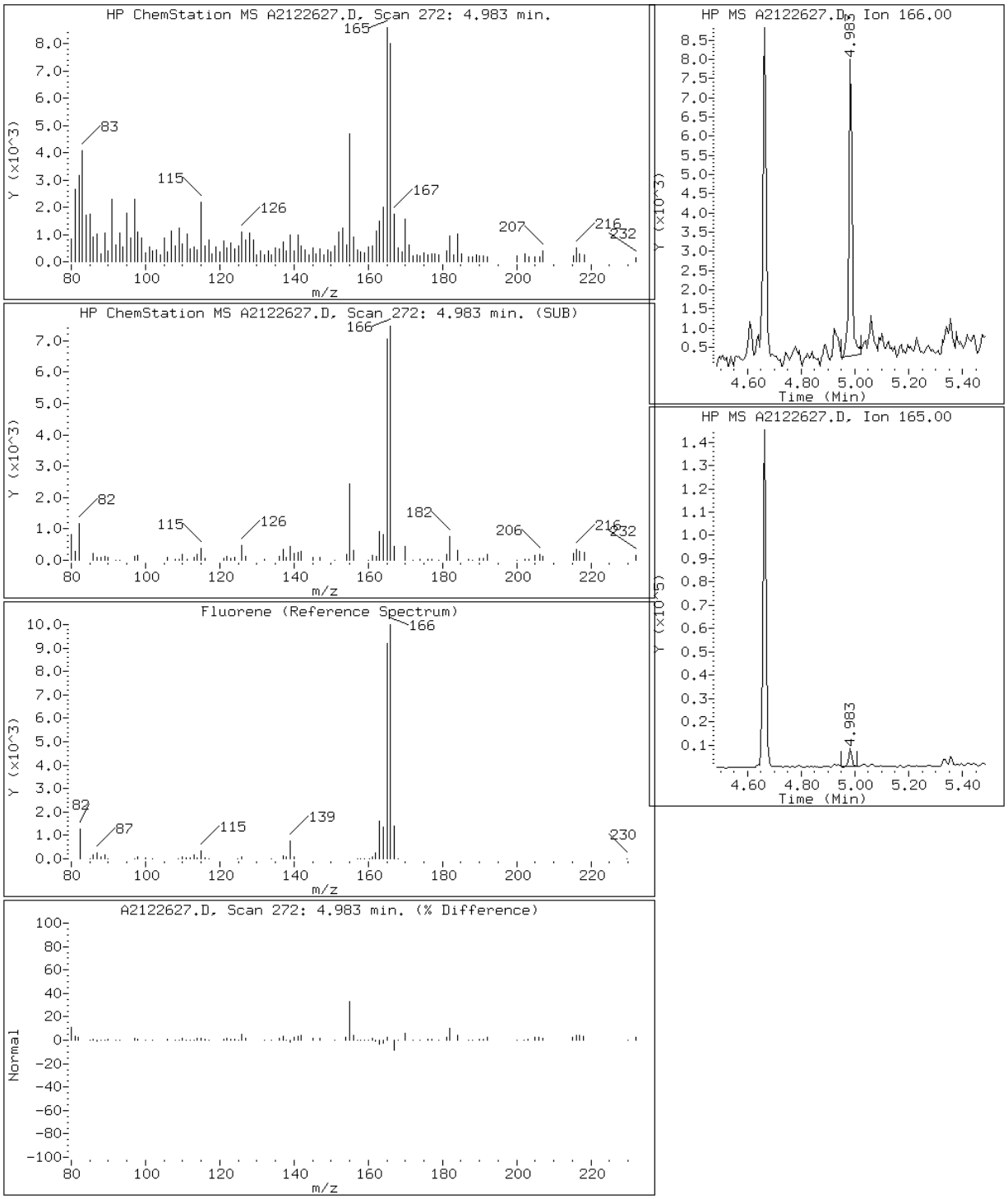
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

8 Fluorene



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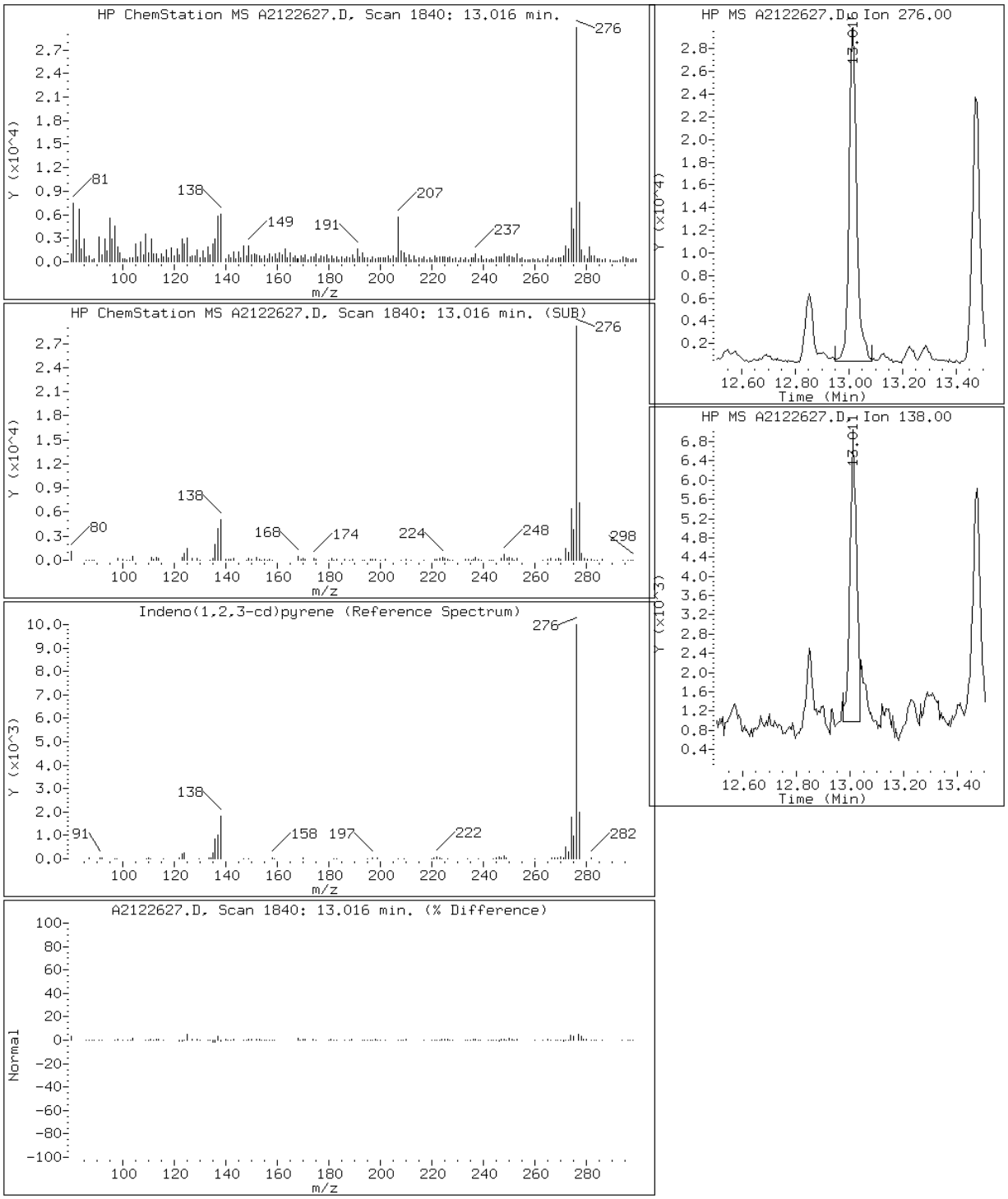
Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

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



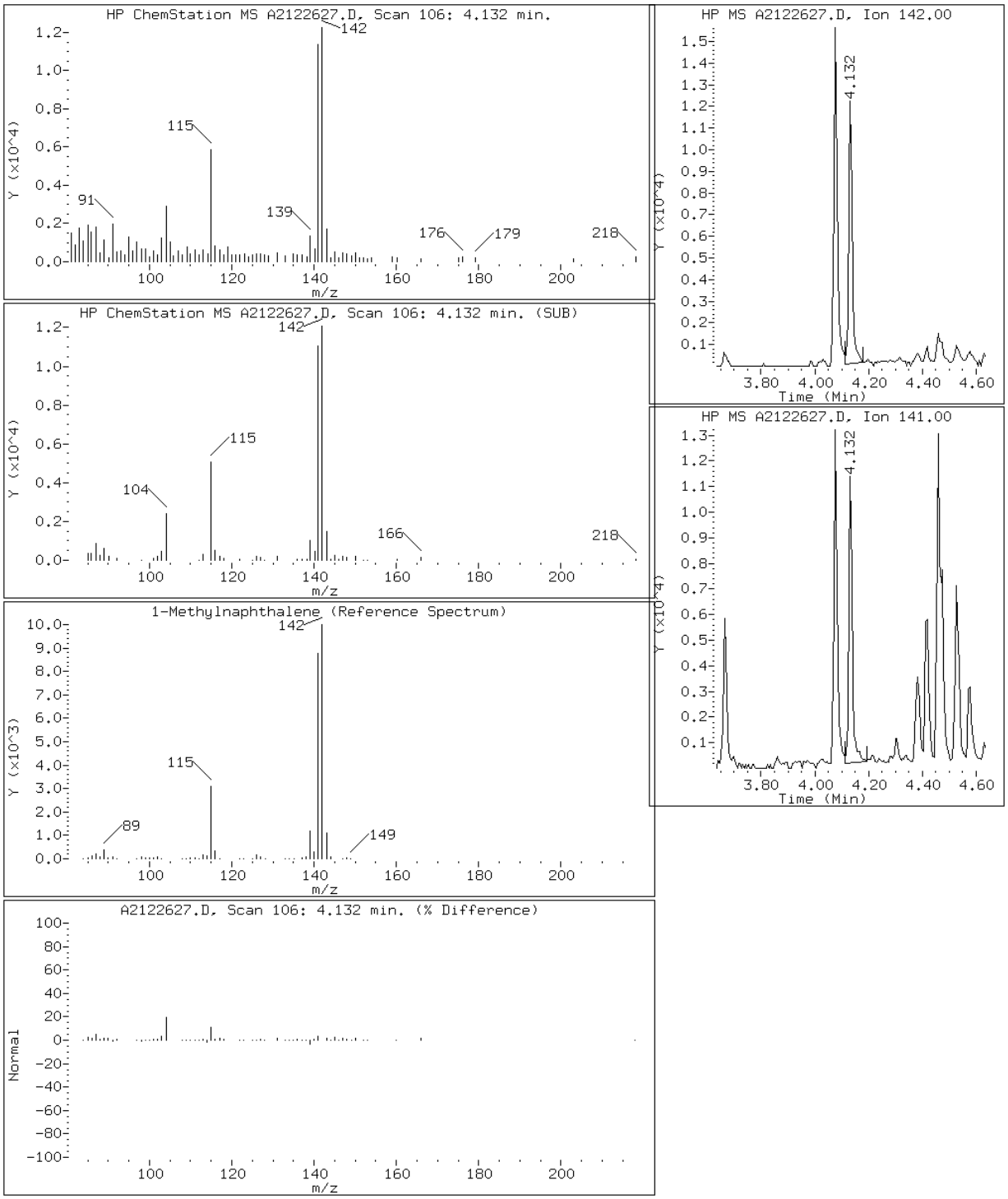
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



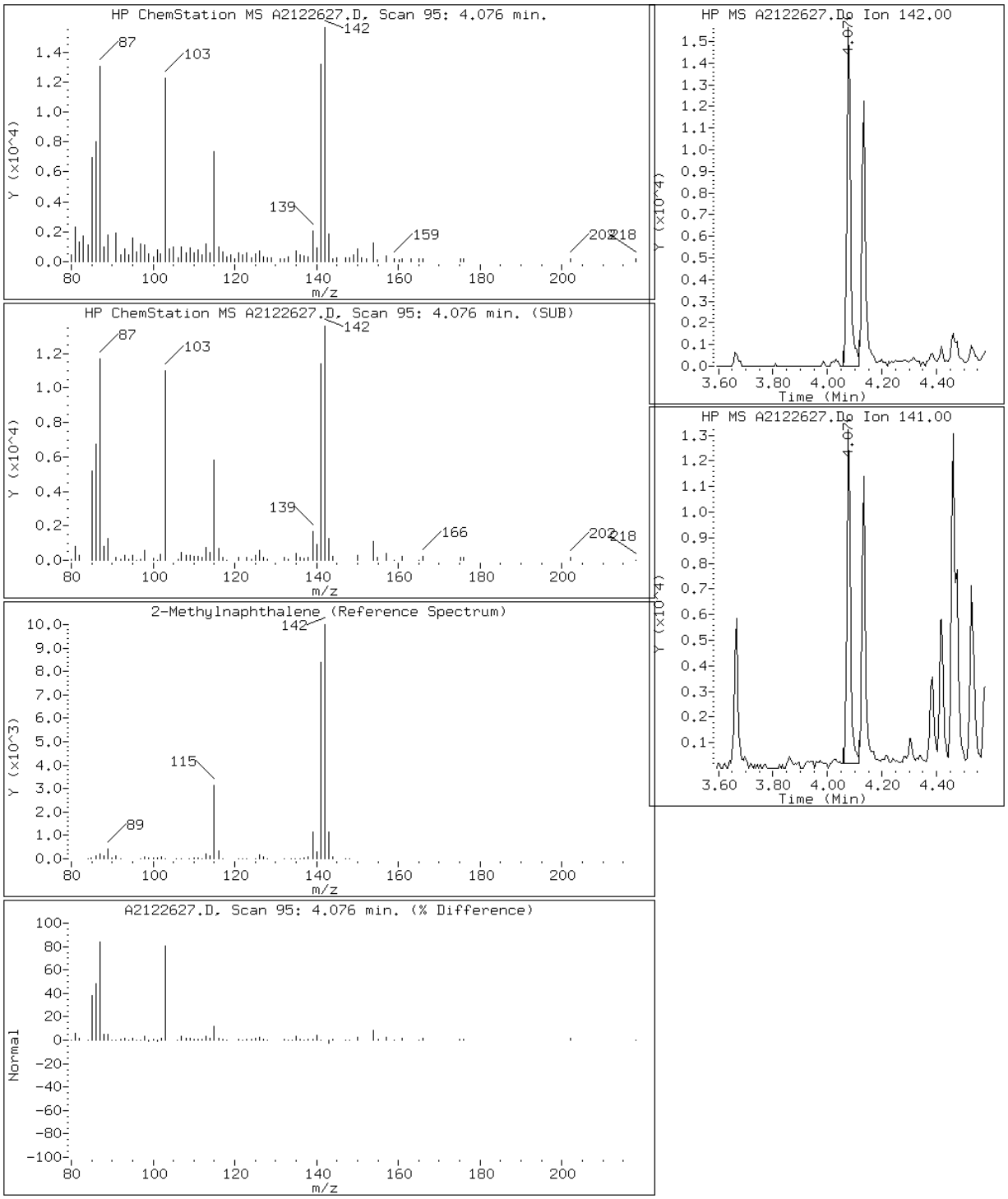
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

3 2-Methylnaphthalene



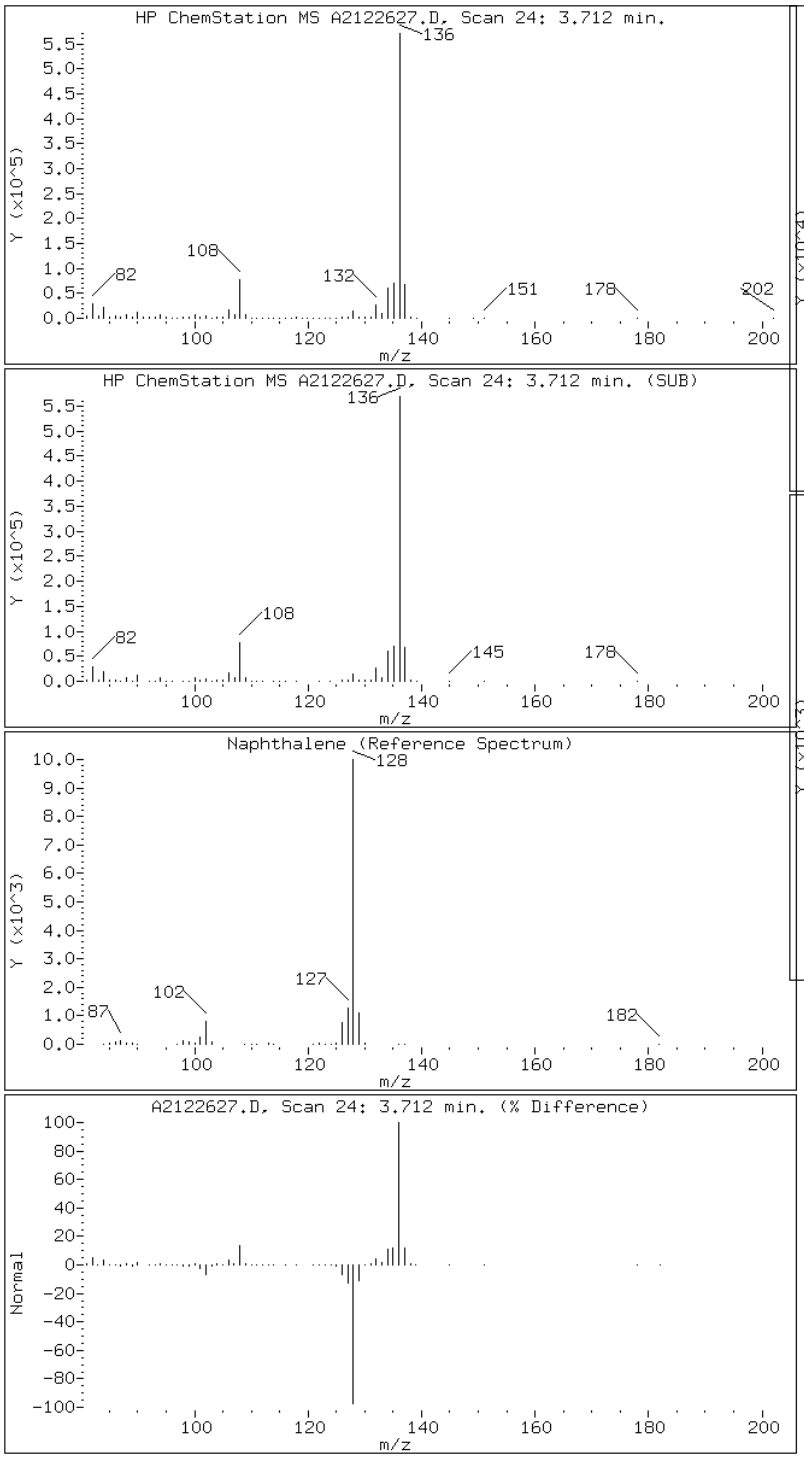
Data File: A2122627.D

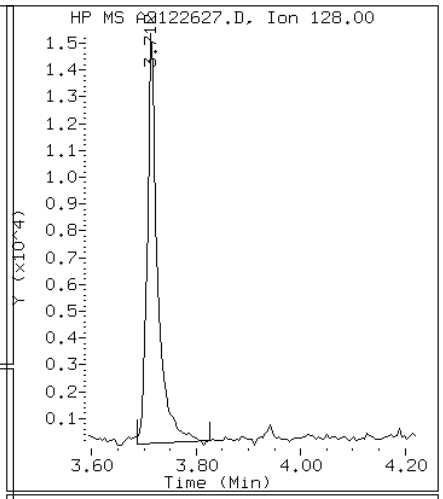
Date: 26-DEC-2012 21:05

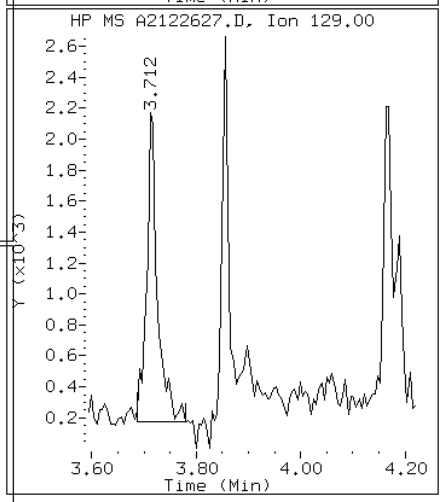
Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

2 Naphthalene







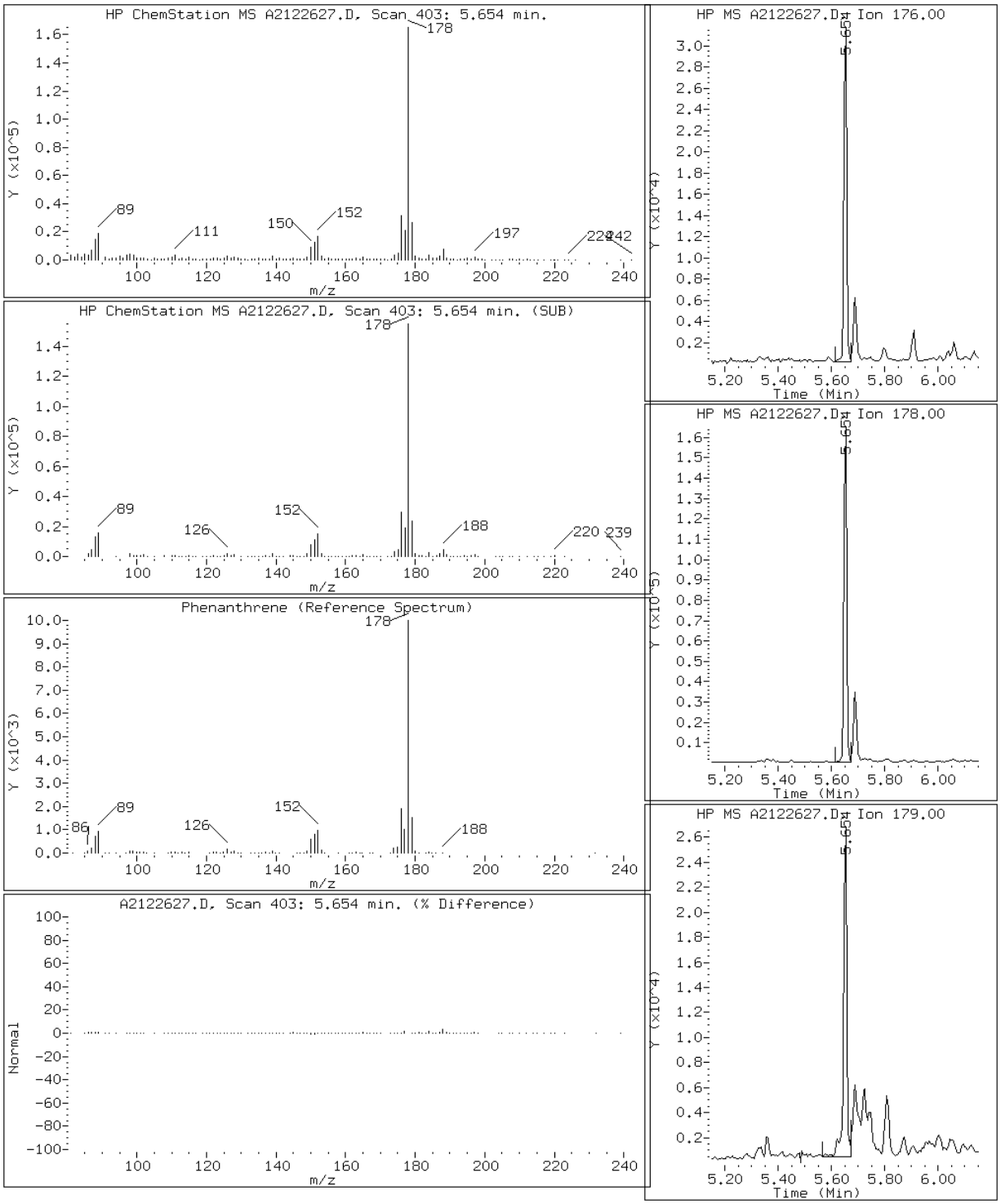
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



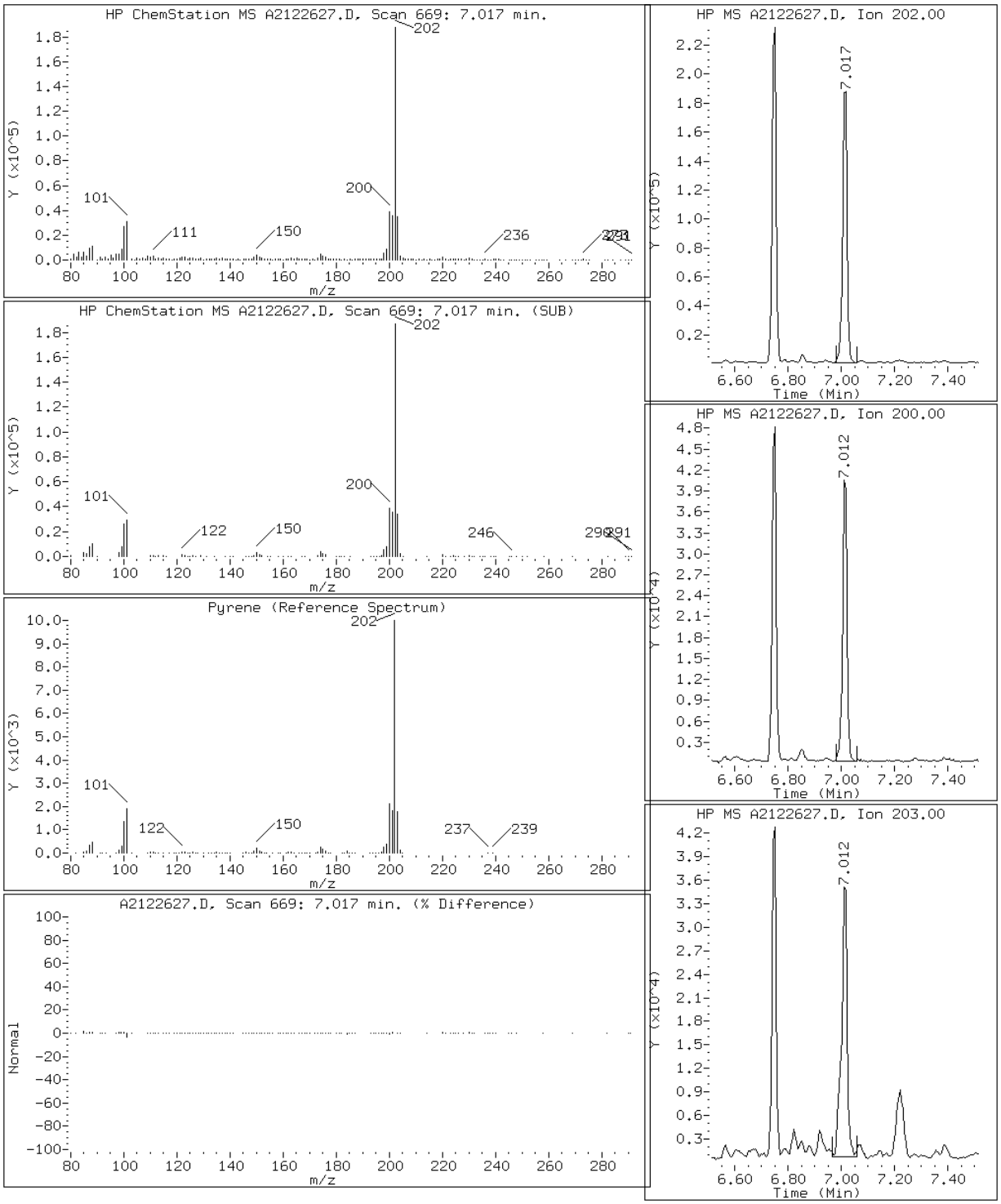
Data File: A2122627.D

Date: 26-DEC-2012 21:05

Client ID: CV0511J-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-43-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511K-CS | Lab Sample ID: 680-85785-44

Matrix: Solid | Lab File ID: A2122707.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:07

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.33(g) | Date Analyzed: 12/27/2012 09:28

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

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

% Moisture: 28.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	35		9.3	0.80
208-96-8	Acenaphthylene	17		9.3	0.73
120-12-7	Anthracene	81		9.3	0.91
56-55-3	Benzo[a]anthracene	420	B	9.3	0.86
50-32-8	Benzo[a]pyrene	530	B	9.3	0.94
205-99-2	Benzo[b]fluoranthene	740	B	9.3	1.3
191-24-2	Benzo[g,h,i]perylene	340	B	9.3	1.5
207-08-9	Benzo[k]fluoranthene	290	B	9.3	0.88
218-01-9	Chrysene	440	B	9.3	1.0
53-70-3	Dibenz(a,h)anthracene	110	B	9.3	0.90
206-44-0	Fluoranthene	700	B	9.3	0.83
86-73-7	Fluorene	31		9.3	0.72
193-39-5	Indeno[1,2,3-cd]pyrene	380	B	9.3	1.5
90-12-0	1-Methylnaphthalene	20		9.3	0.73
91-57-6	2-Methylnaphthalene	26		9.3	0.72
91-20-3	Naphthalene	24		9.3	0.72
85-01-8	Phenanthrene	380		9.3	0.61
129-00-0	Pyrene	590	B	9.3	0.72

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\TSMA5973.i\1A121227.b\A2122707.D
Lab Smp Id: 680-85785-A-44-A Client Smp ID: CV0511K-CS
Inj Date : 27-DEC-2012 09:28
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-44-A~98123~1~8270D/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: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.330	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	3.705	(1.000)	1362073	40.0000		
2 Naphthalene	128	3.712	3.720	(1.003)	20125	0.52458	17	
3 2-Methylnaphthalene	142	4.070	4.079	(1.100)	13873	0.57220	19	
4 1-Methylnaphthalene	142	4.127	4.135	(1.115)	11019	0.43917	14	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	704442	40.0000		
6 Acenaphthylene	152	4.578	4.581	(0.982)	13667	0.36201	12	
7 Acenaphthene	153	4.675	4.678	(1.003)	17757	0.76712	25	
8 Fluorene	166	4.977	4.980	(1.068)	17701	0.66777	22	
* 9 Phenanthrene-d10	188	5.628	5.631	(1.000)	1095931	40.0000		
10 Phenanthrene	176	5.643	5.646	(1.003)	57726	8.20447	270	
11 Anthracene	178	5.679	5.687	(1.009)	65780	1.75662	58	
$ 12 o-Terphenyl	230	5.899	5.903	(1.048)	74186	3.20306	100	
13 Fluoranthene	202	6.745	6.743	(1.198)	665500	15.2961	500	
* 14 Chrysene-d12	240	8.738	8.736	(1.000)	1334205	40.0000		

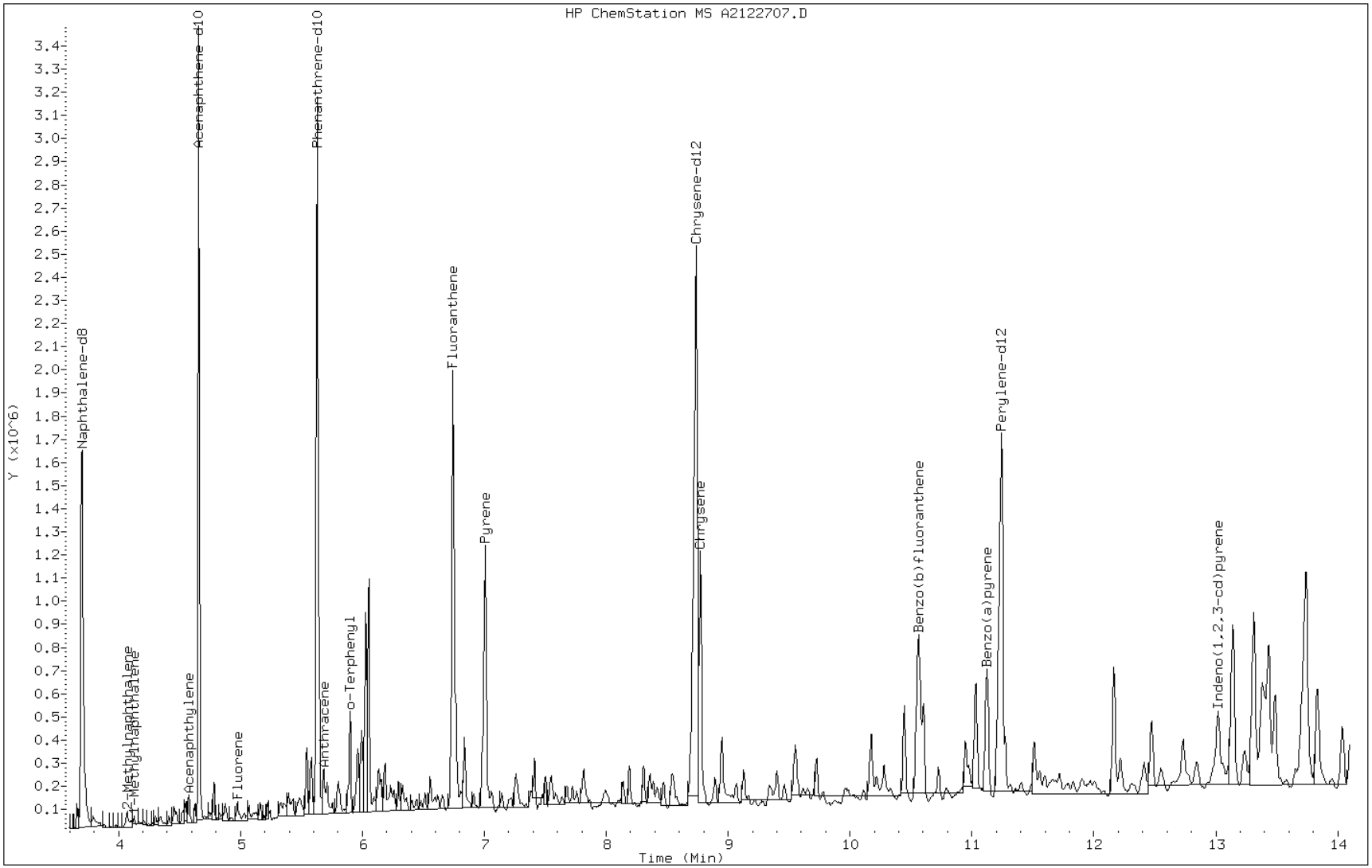
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.011	7.004	(0.802)	586747	12.9032	420	
16 Benzo(a)anthracene	226	8.712	8.700	(0.997)	110510	9.17652	300	
17 Chrysene	228	8.774	8.772	(1.004)	390765	9.45007	310	
* 18 Perylene-d12	264	11.243	11.241	(1.000)	1229046	40.0000		
19 Benzo(b)fluoranthene	252	10.562	10.544	(0.939)	611954	16.1456	530	
20 Benzo(k)fluoranthene	252	10.603	10.596	(0.943)	243905	6.30083	210	
21 Benzo(a)pyrene	252	11.125	11.113	(0.990)	397311	11.6015	380	
22 Indeno(1,2,3-cd)pyrene	276	13.021	12.993	(1.158)	286852	8.31132	270	
23 Dibenzo(a,h)anthracene	278	13.052	13.039	(1.161)	81754	2.33810	77	
24 Benzo(g,h,i)perylene	276	13.492	13.444	(1.200)	250863	7.33686	240	

Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW



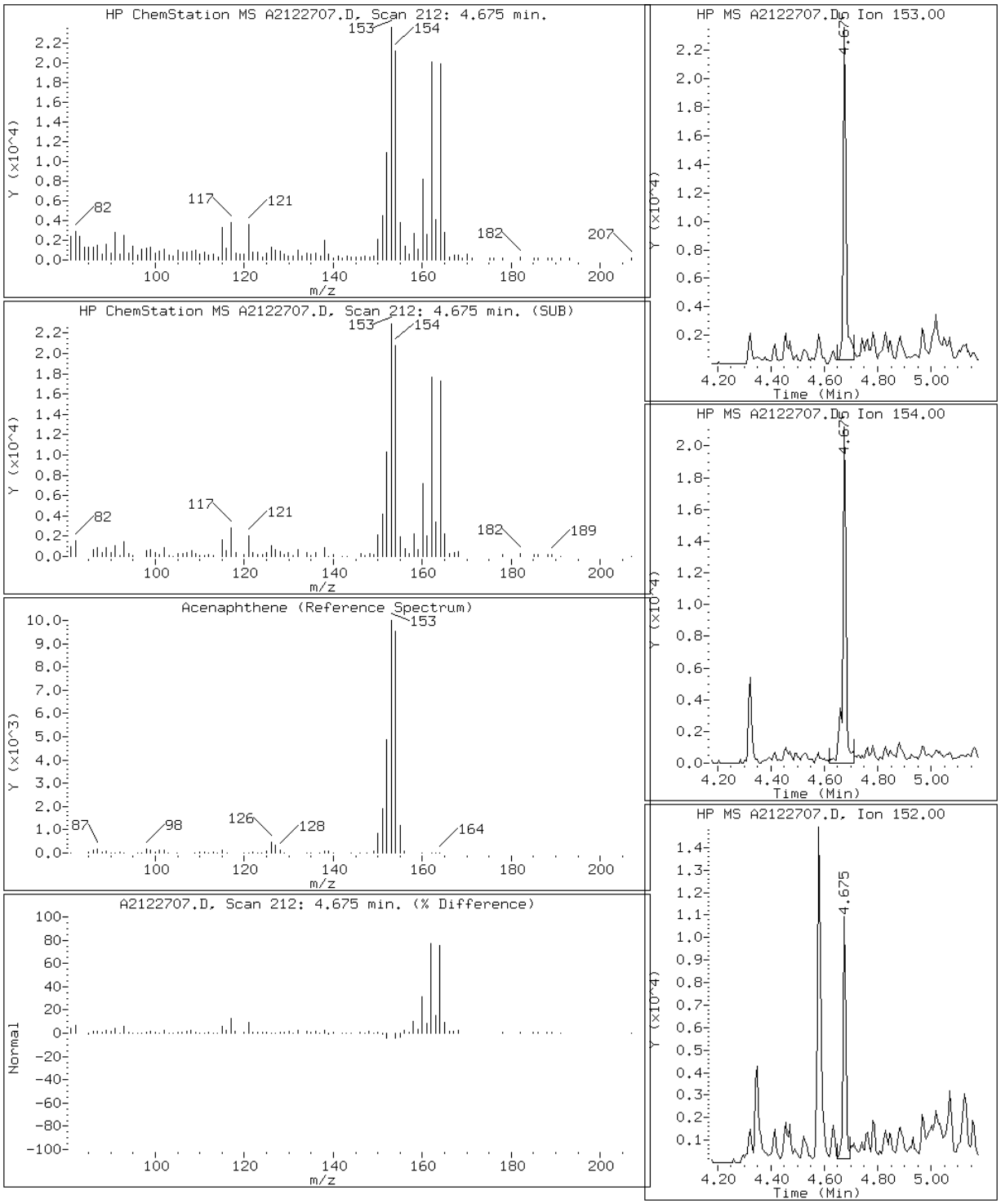
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



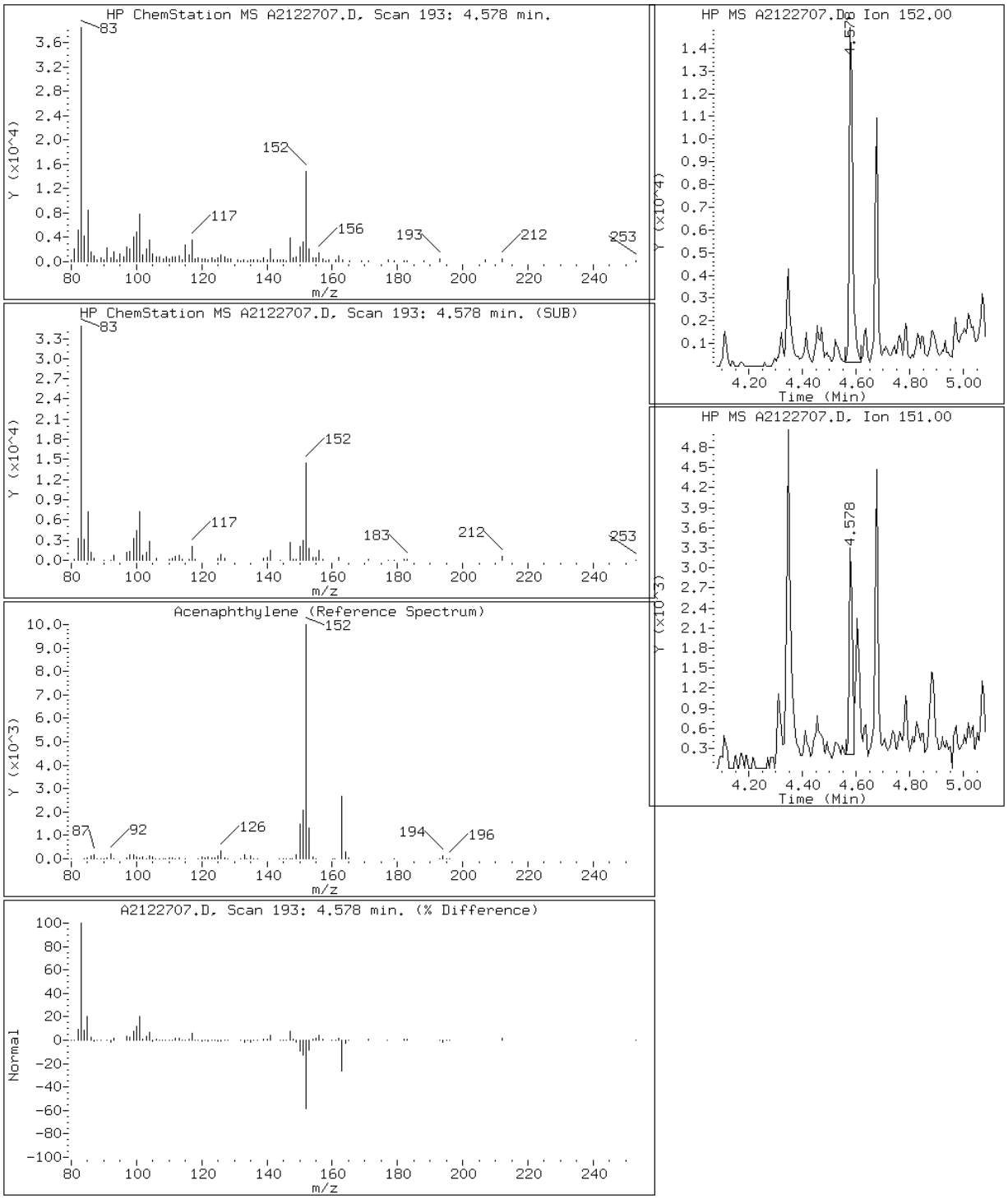
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

6 Acenaphthylene



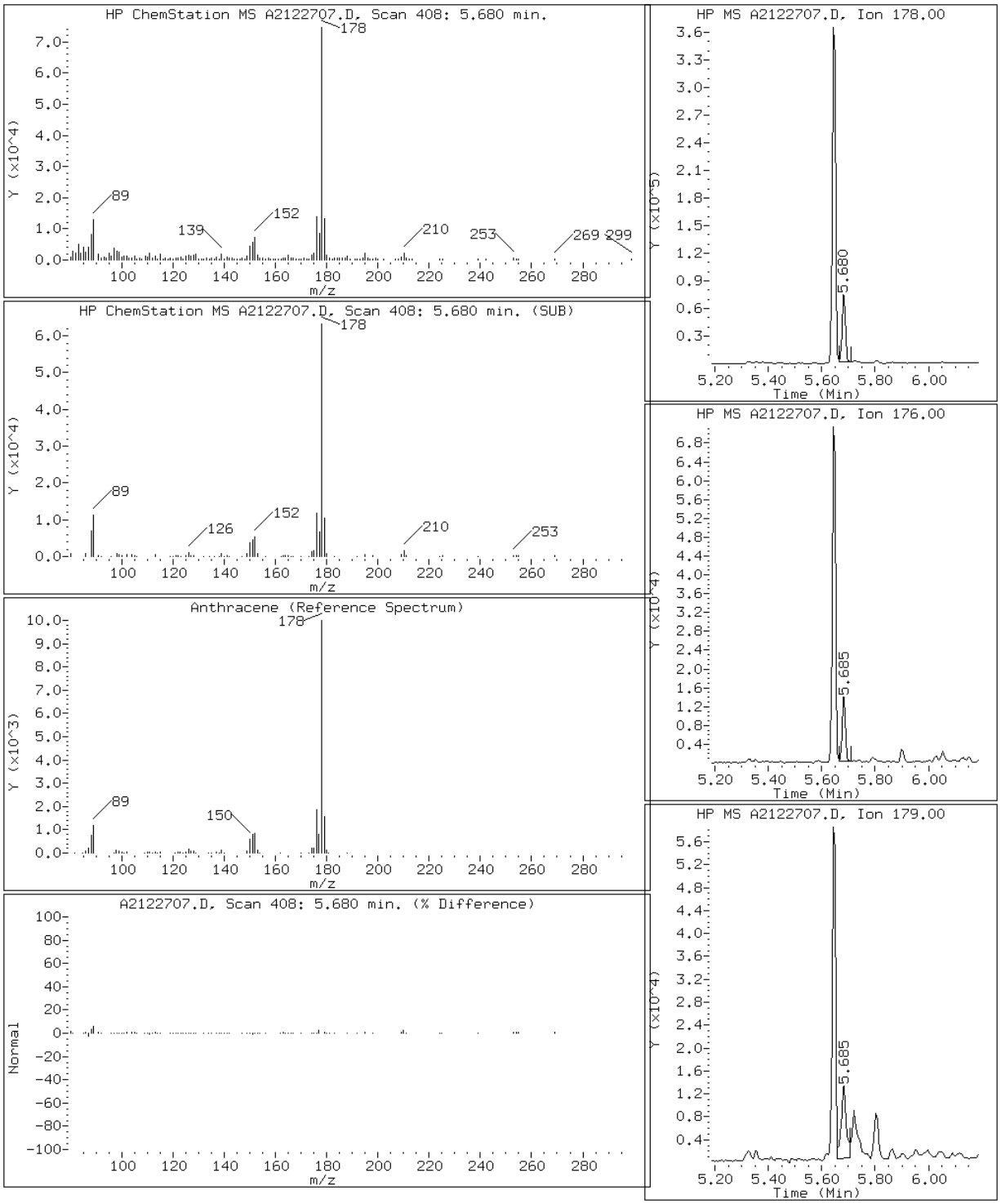
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

11 Anthracene



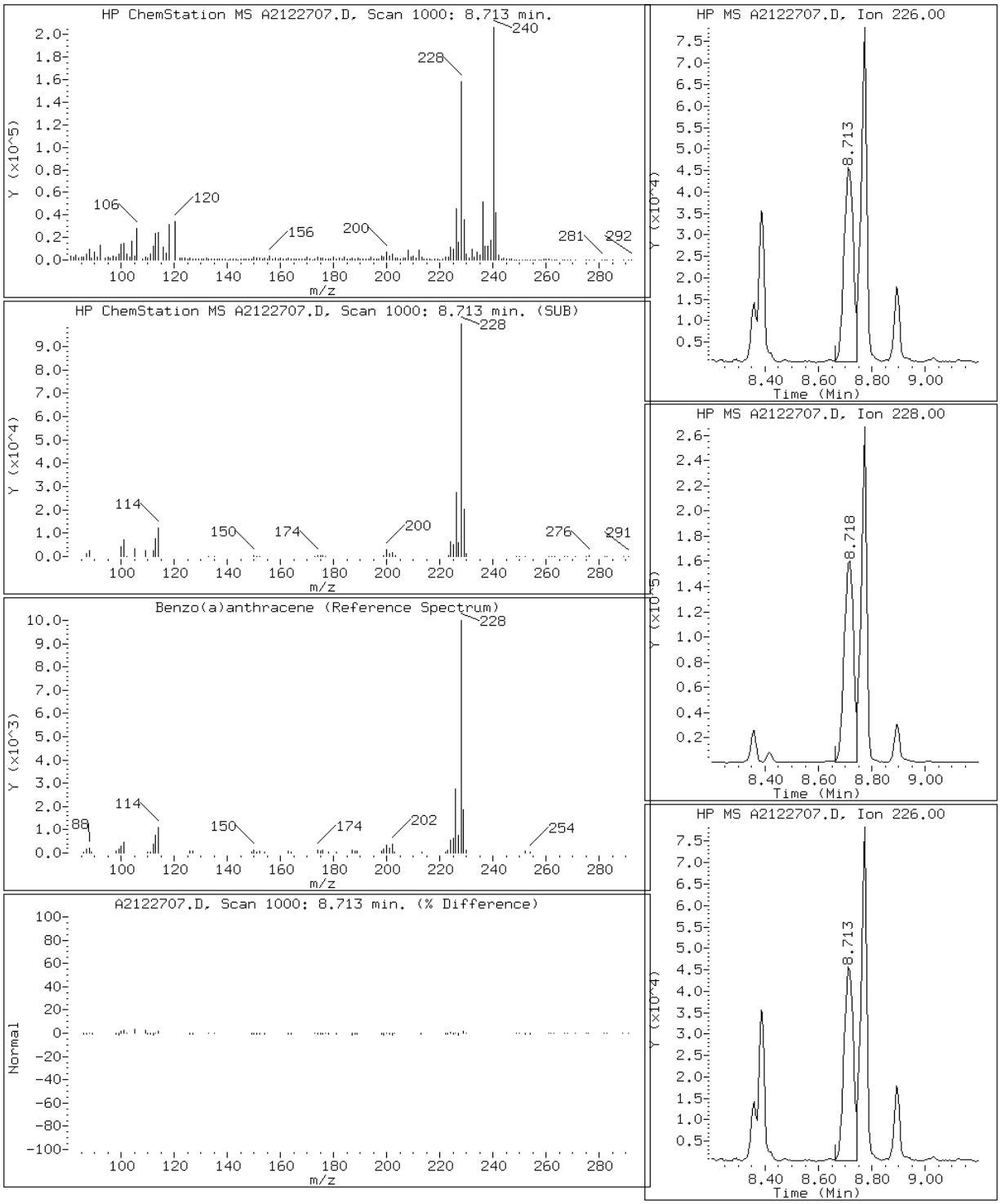
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



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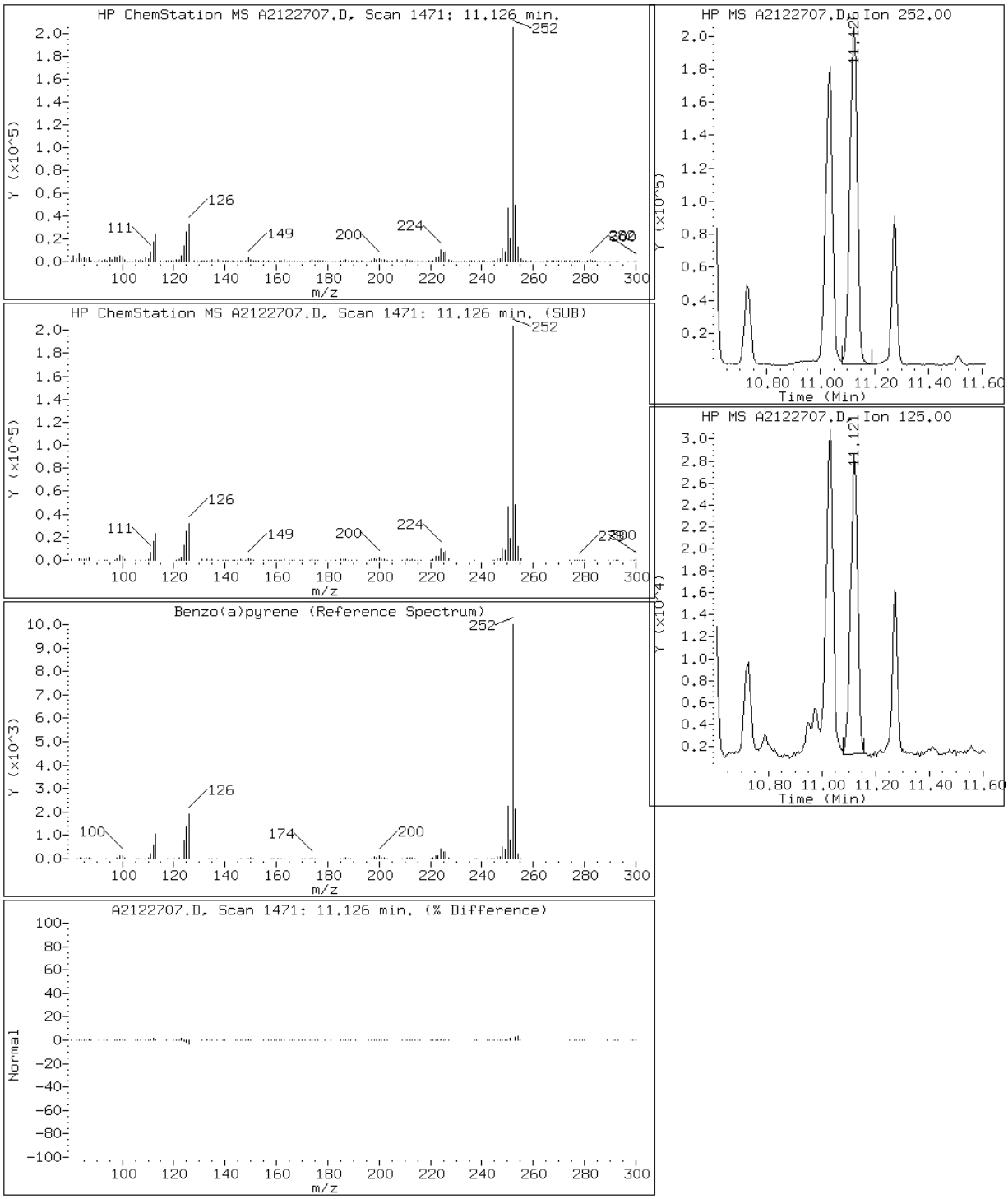
Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



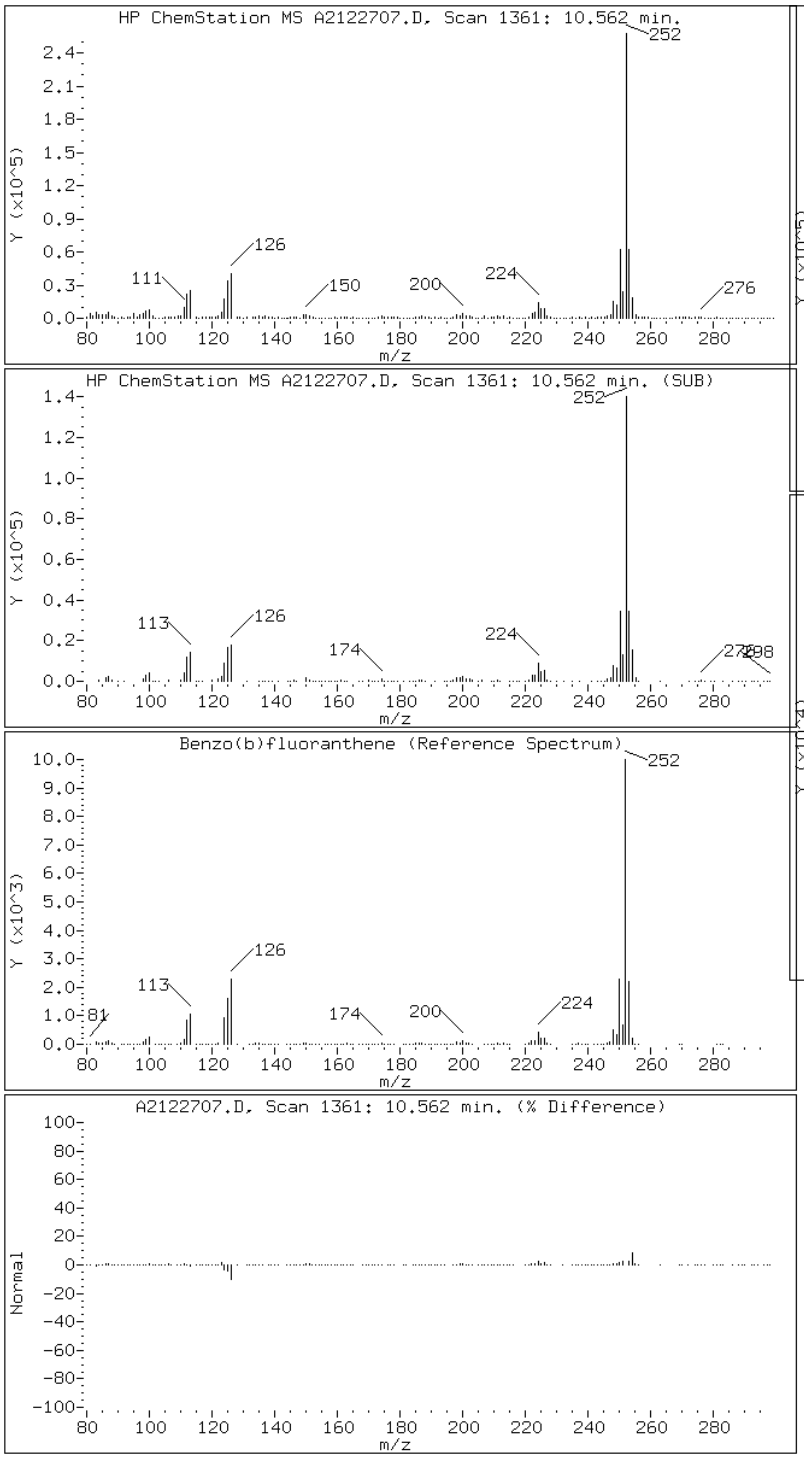
Data File: A2122707.D

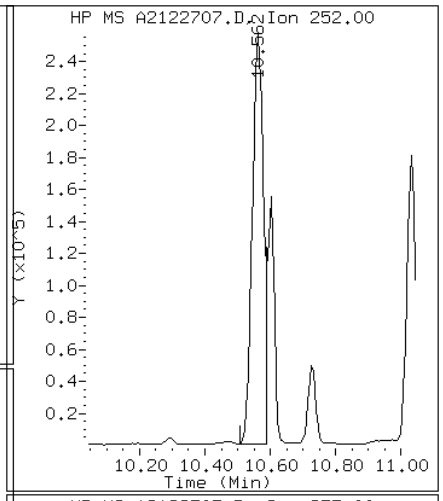
Date: 27-DEC-2012 09:28

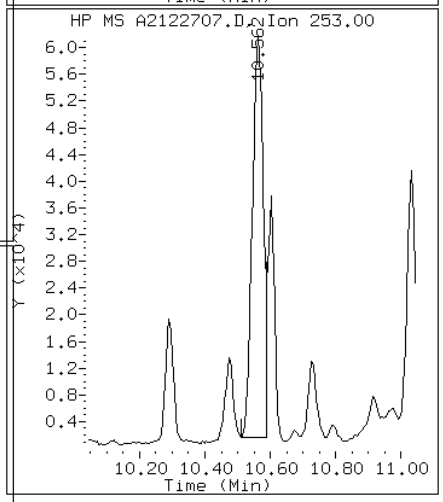
Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene







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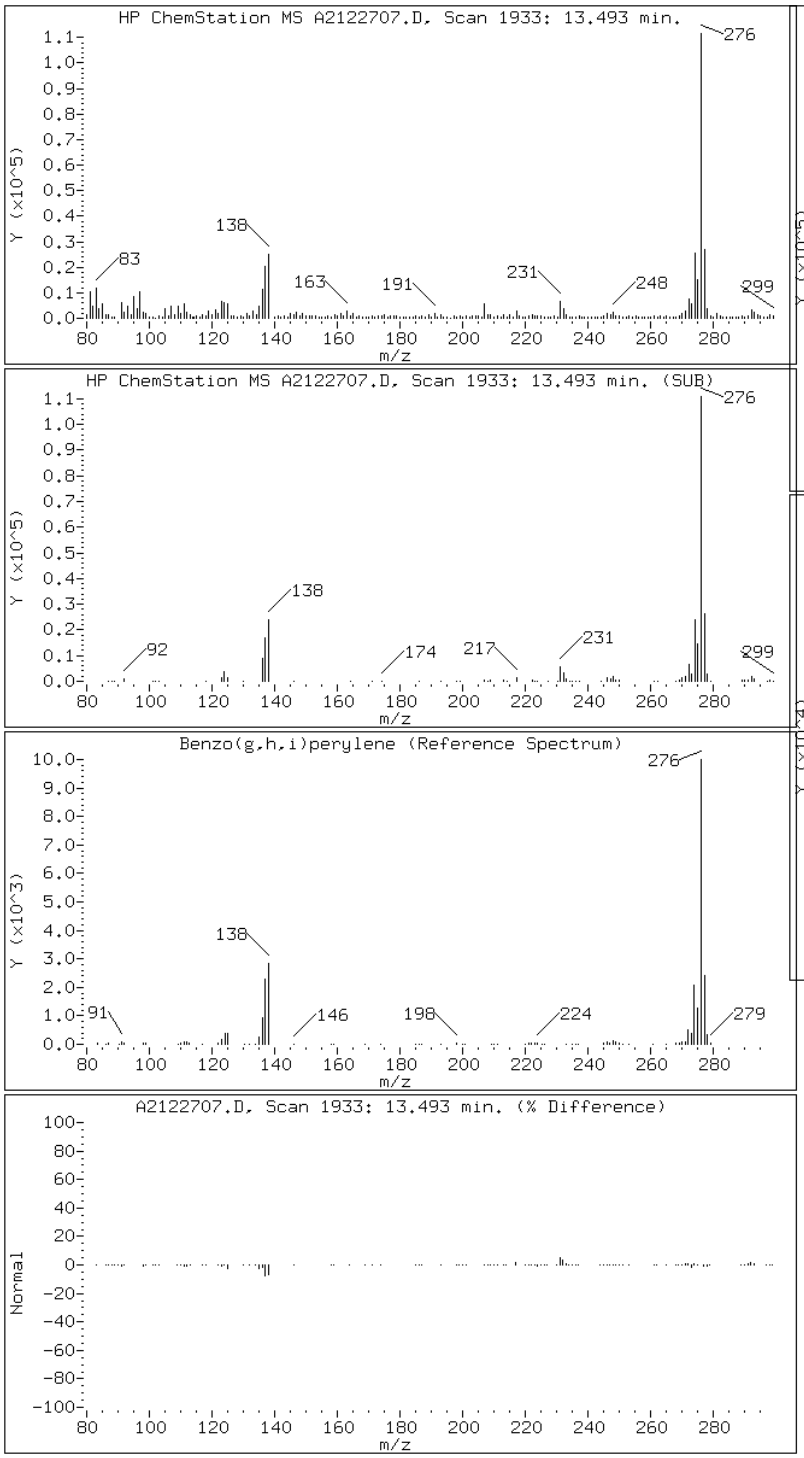
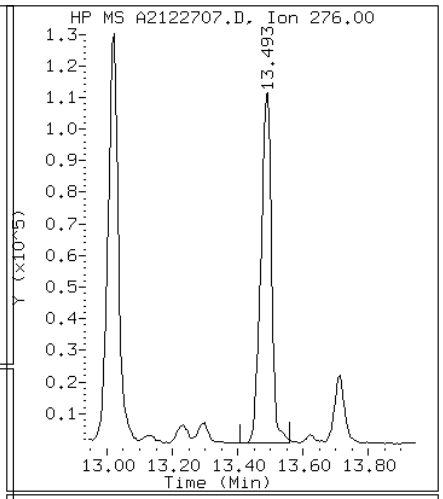
Date: 27-DEC-2012 09:28

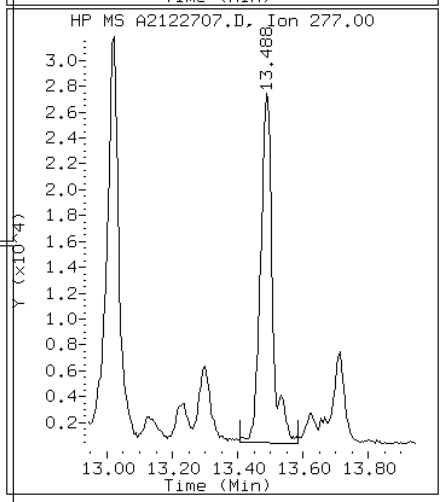
Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







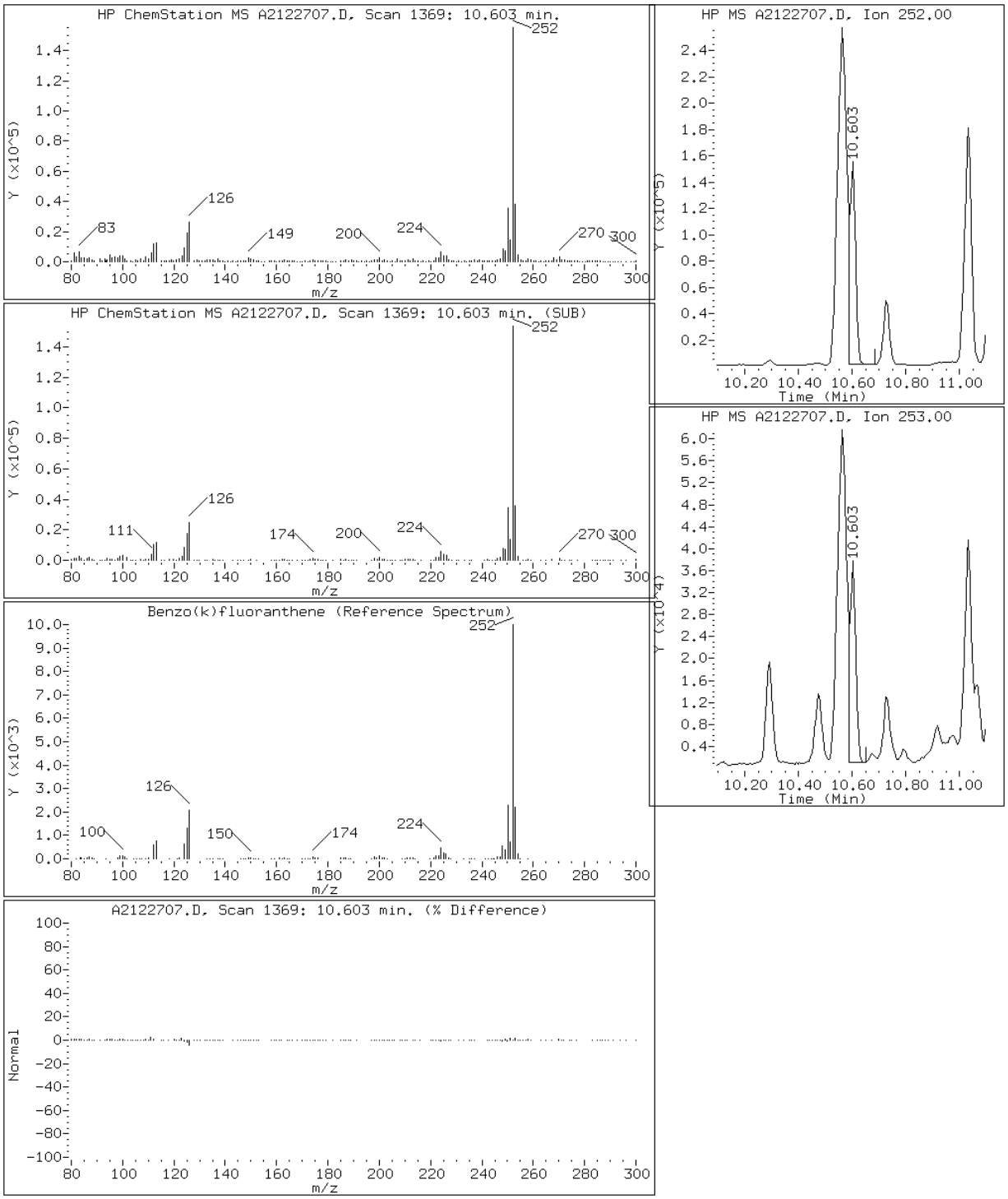
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



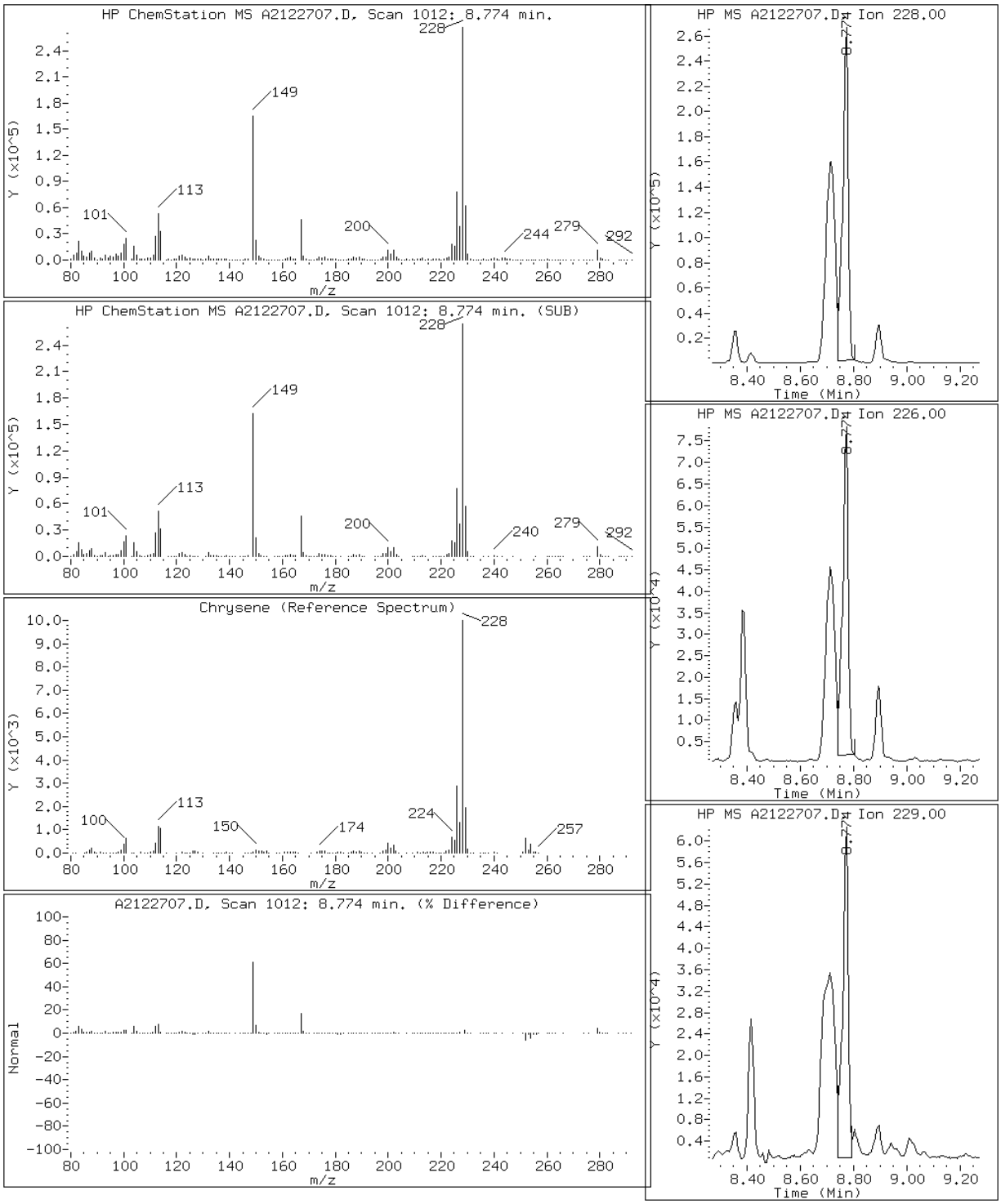
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

17 Chrysene



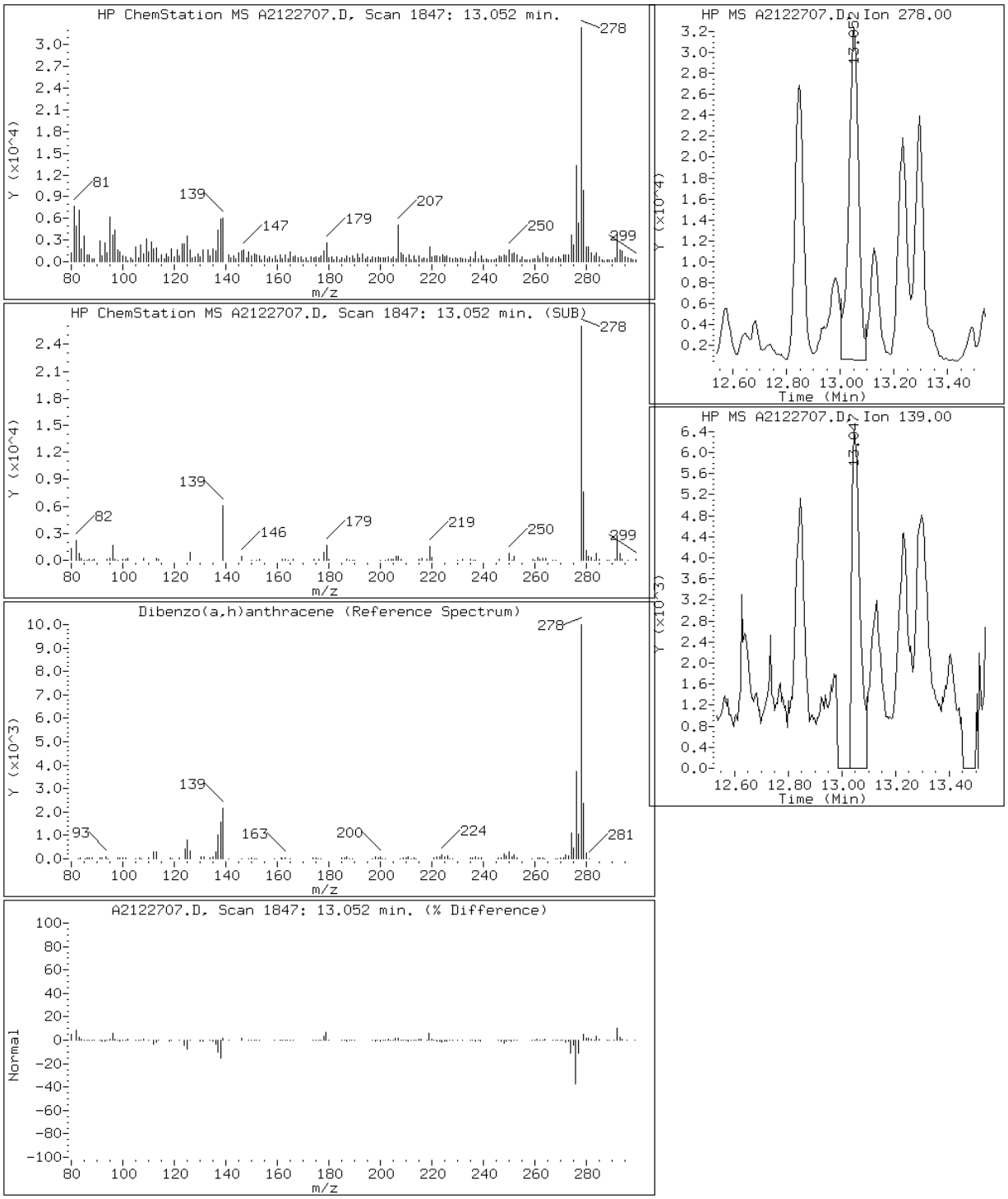
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene



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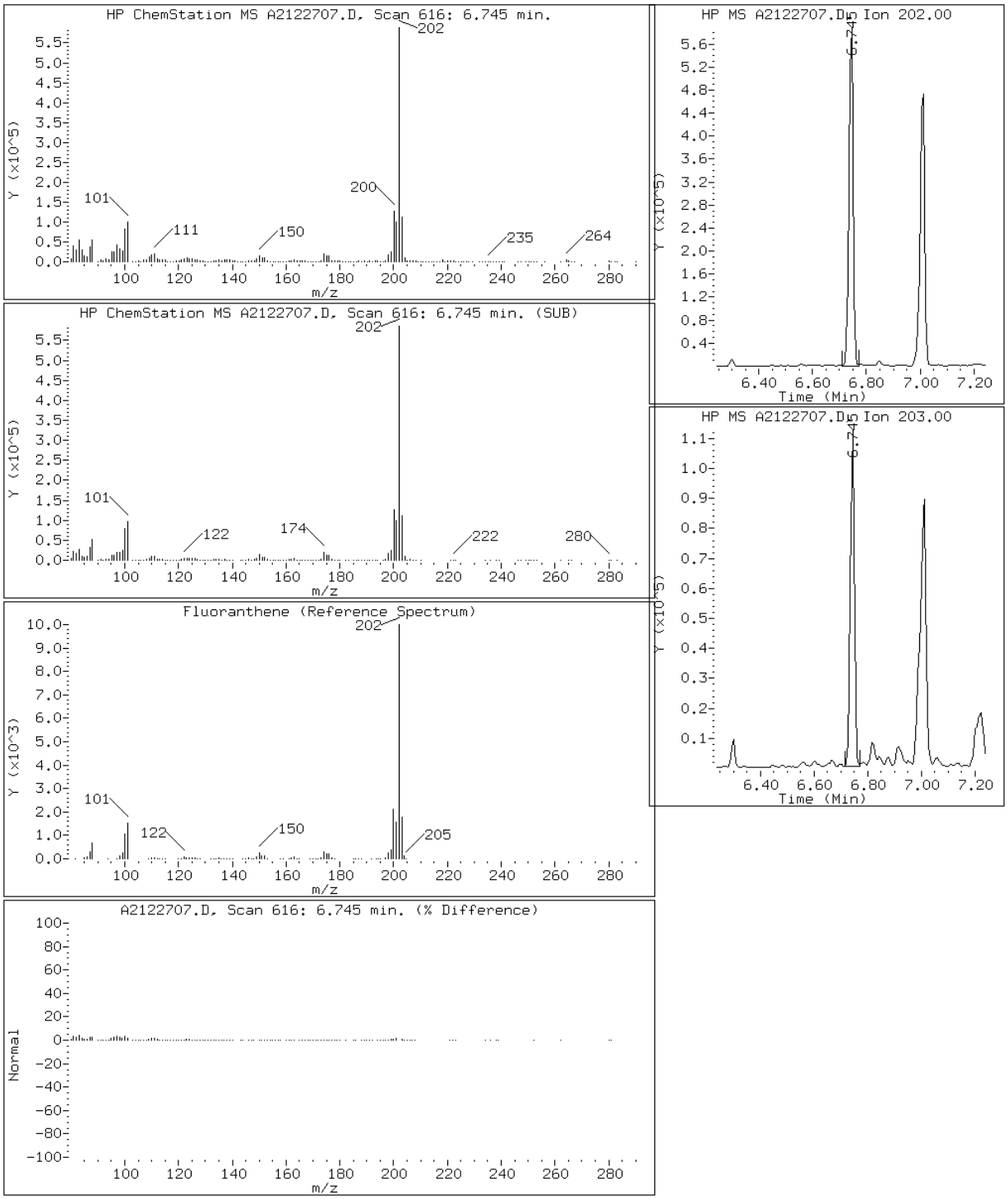
Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



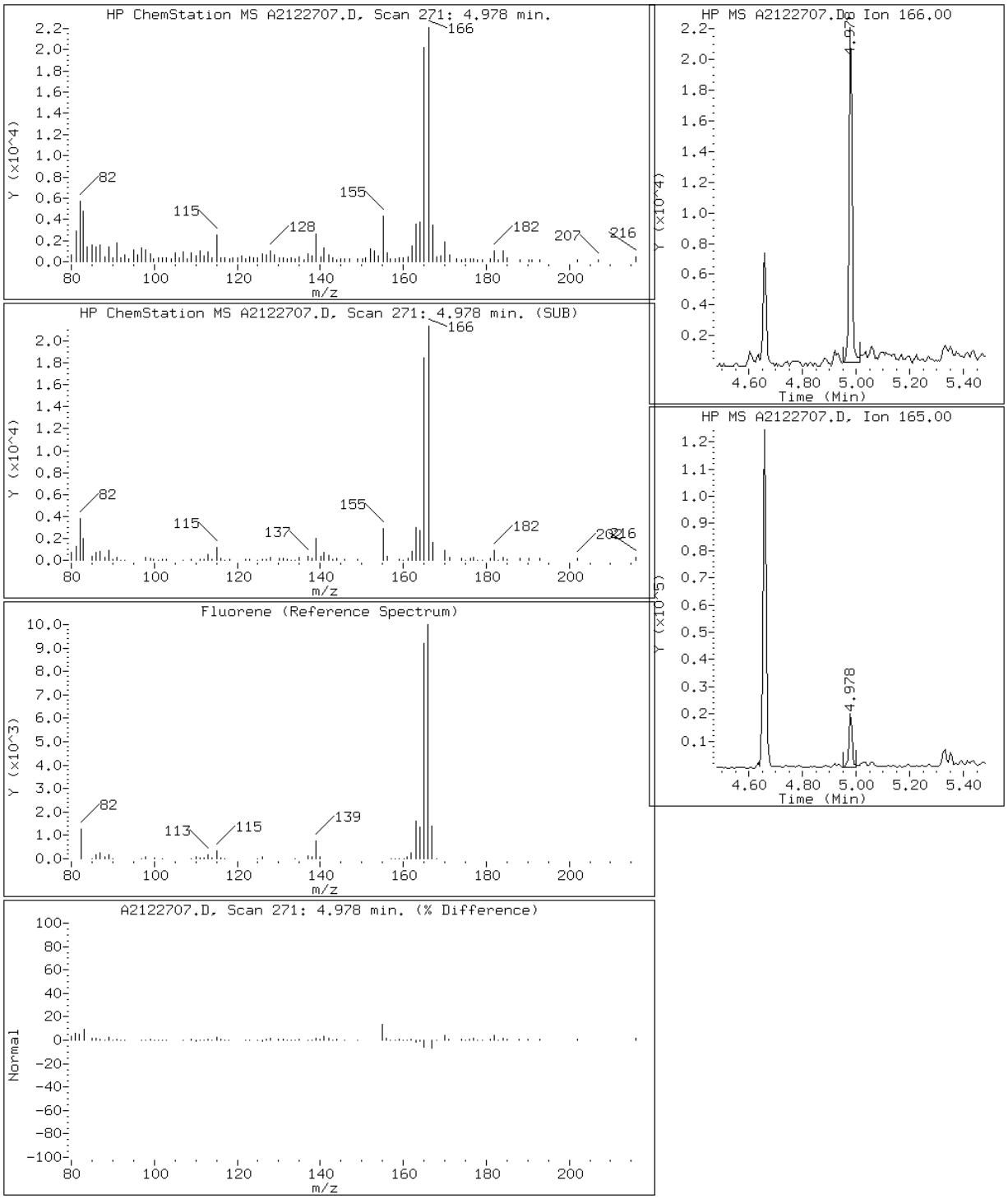
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

8 Fluorene



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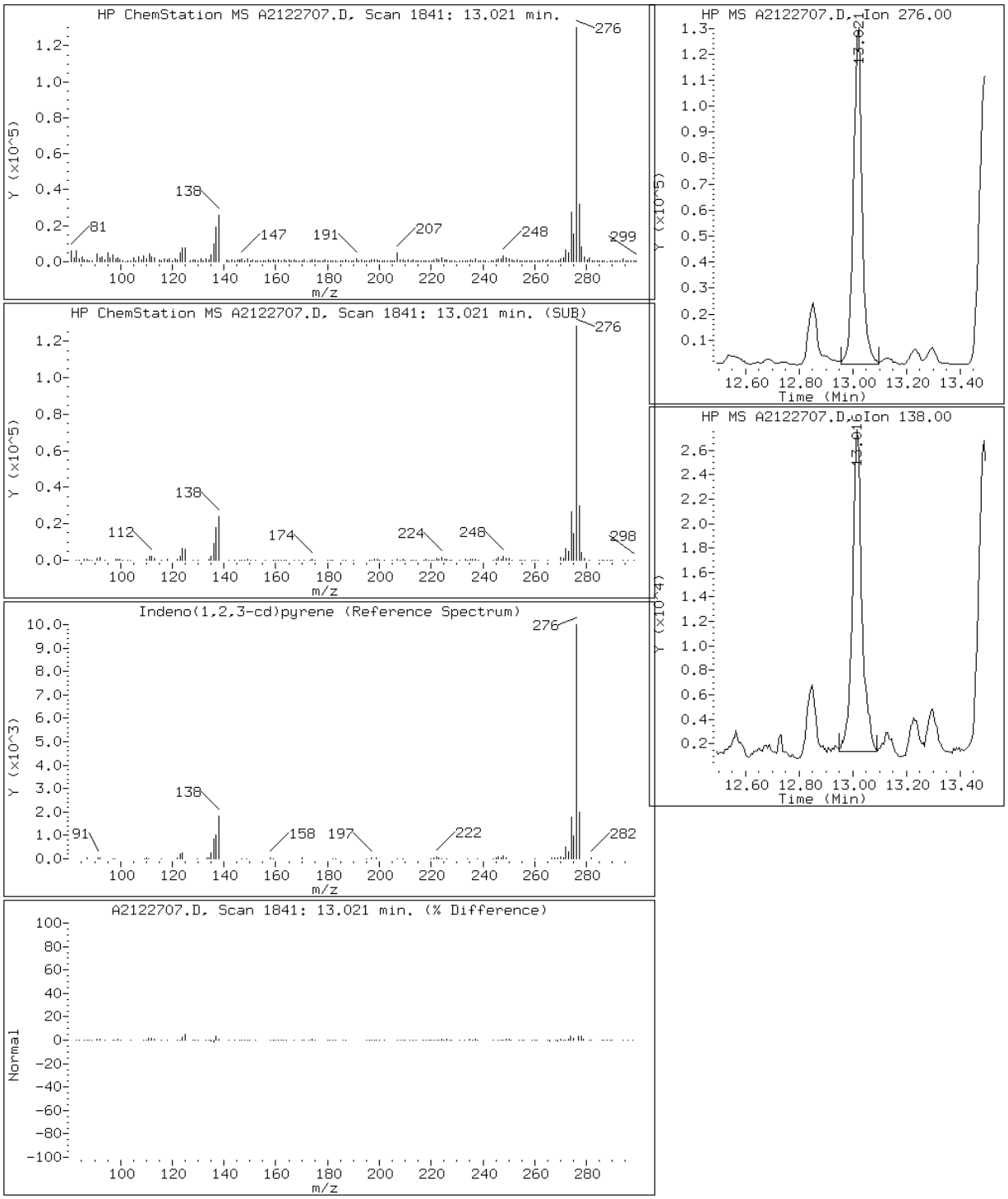
Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

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



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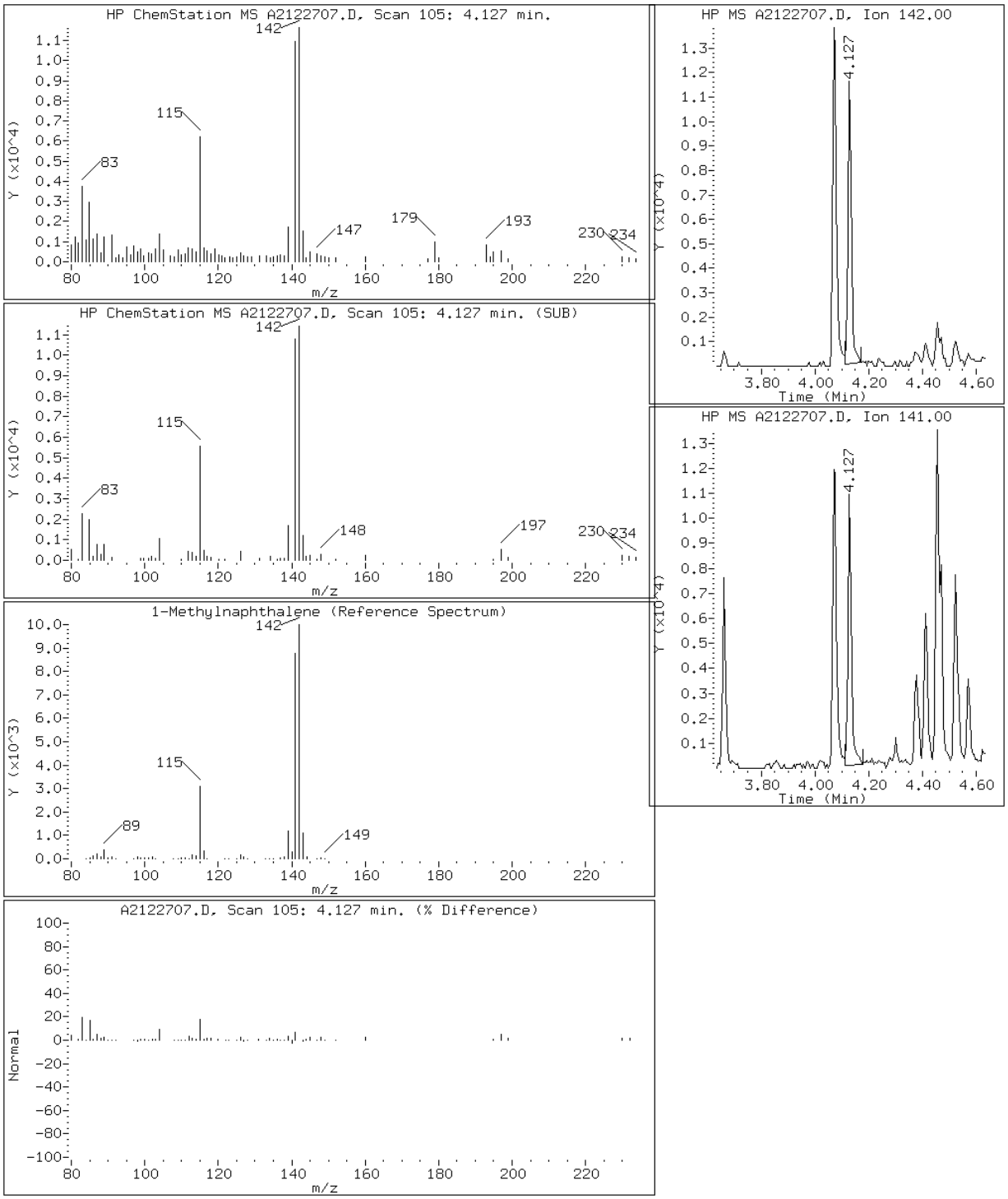
Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



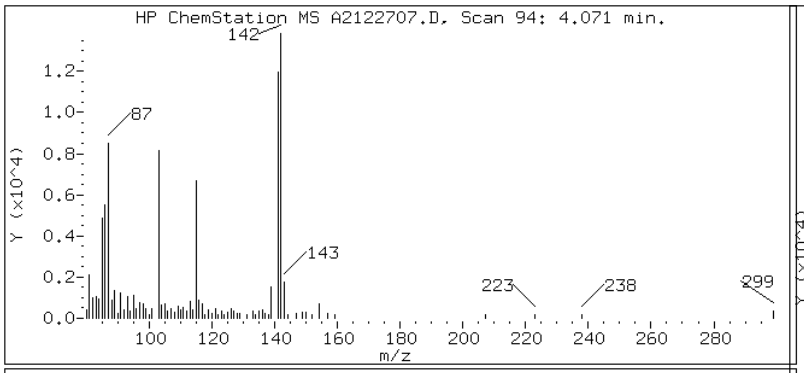
Data File: A2122707.D

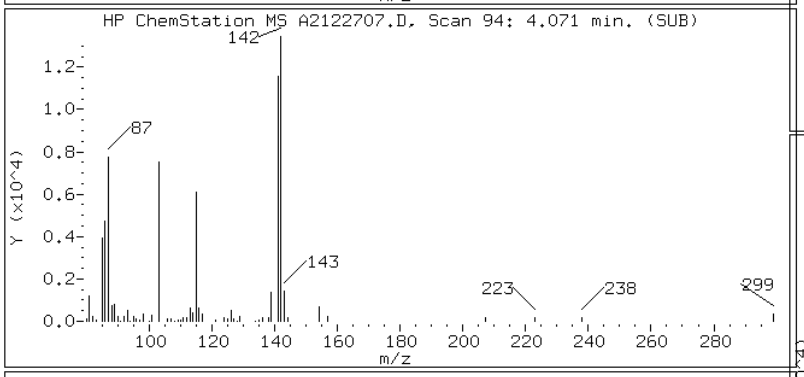
Date: 27-DEC-2012 09:28

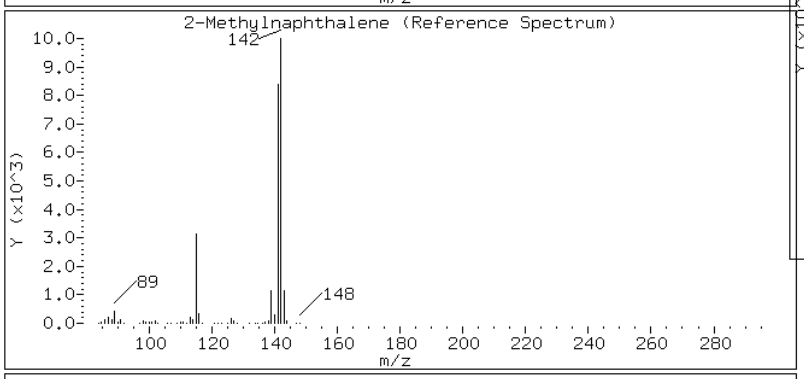
Client ID: CV0511K-CS Instrument: TSMA5973.i

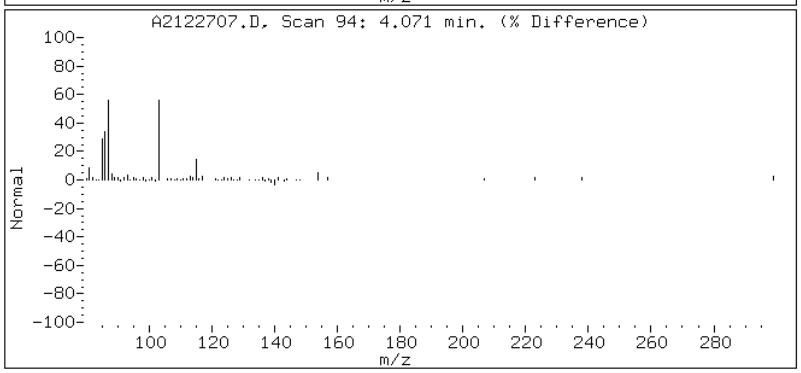
Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

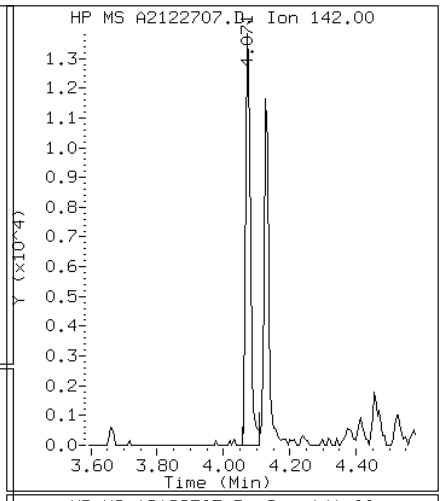
3 2-Methylnaphthalene

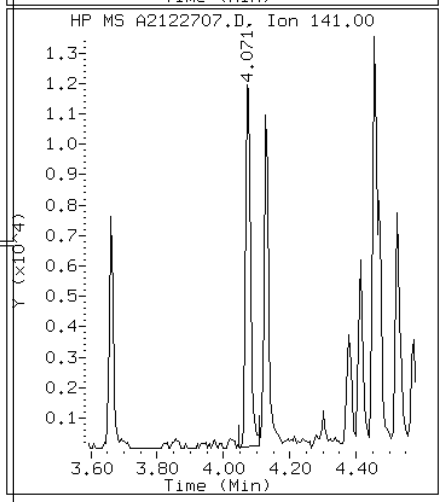












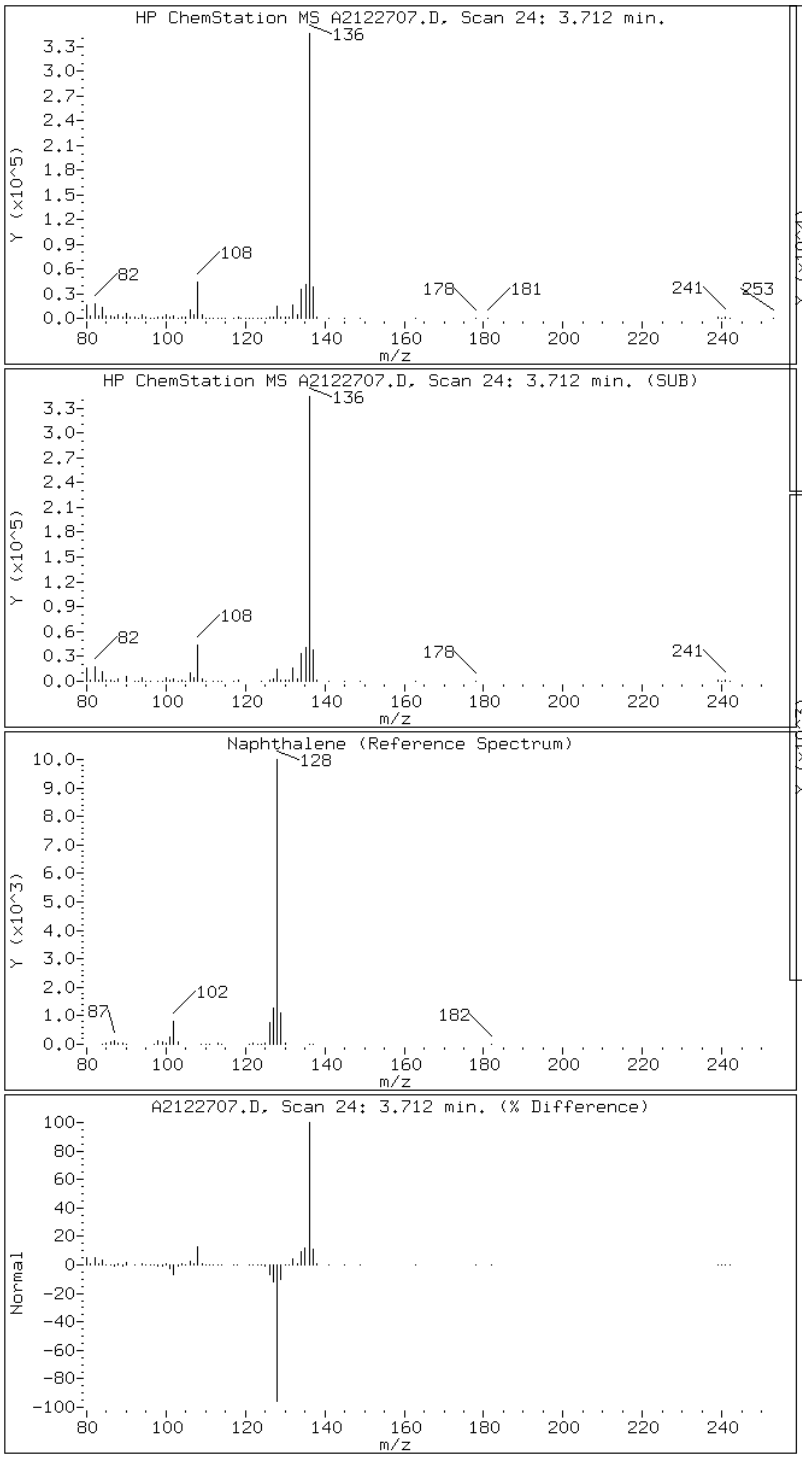
Data File: A2122707.D

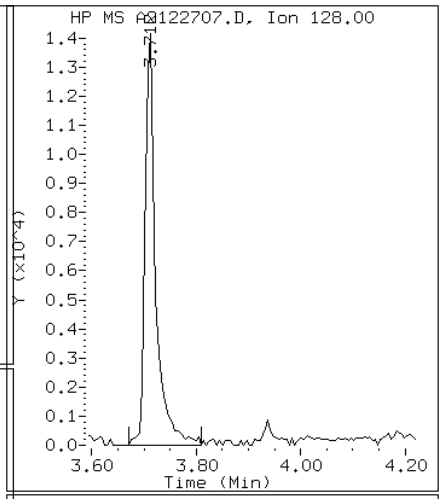
Date: 27-DEC-2012 09:28

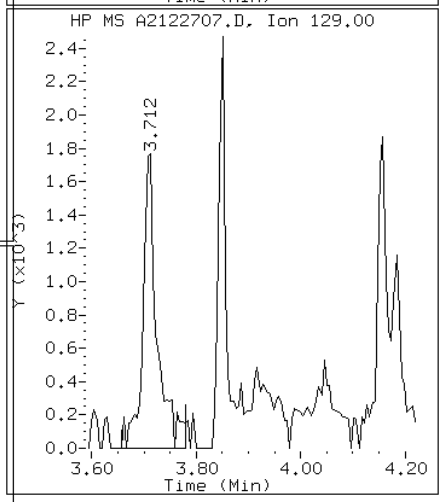
Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

2 Naphthalene







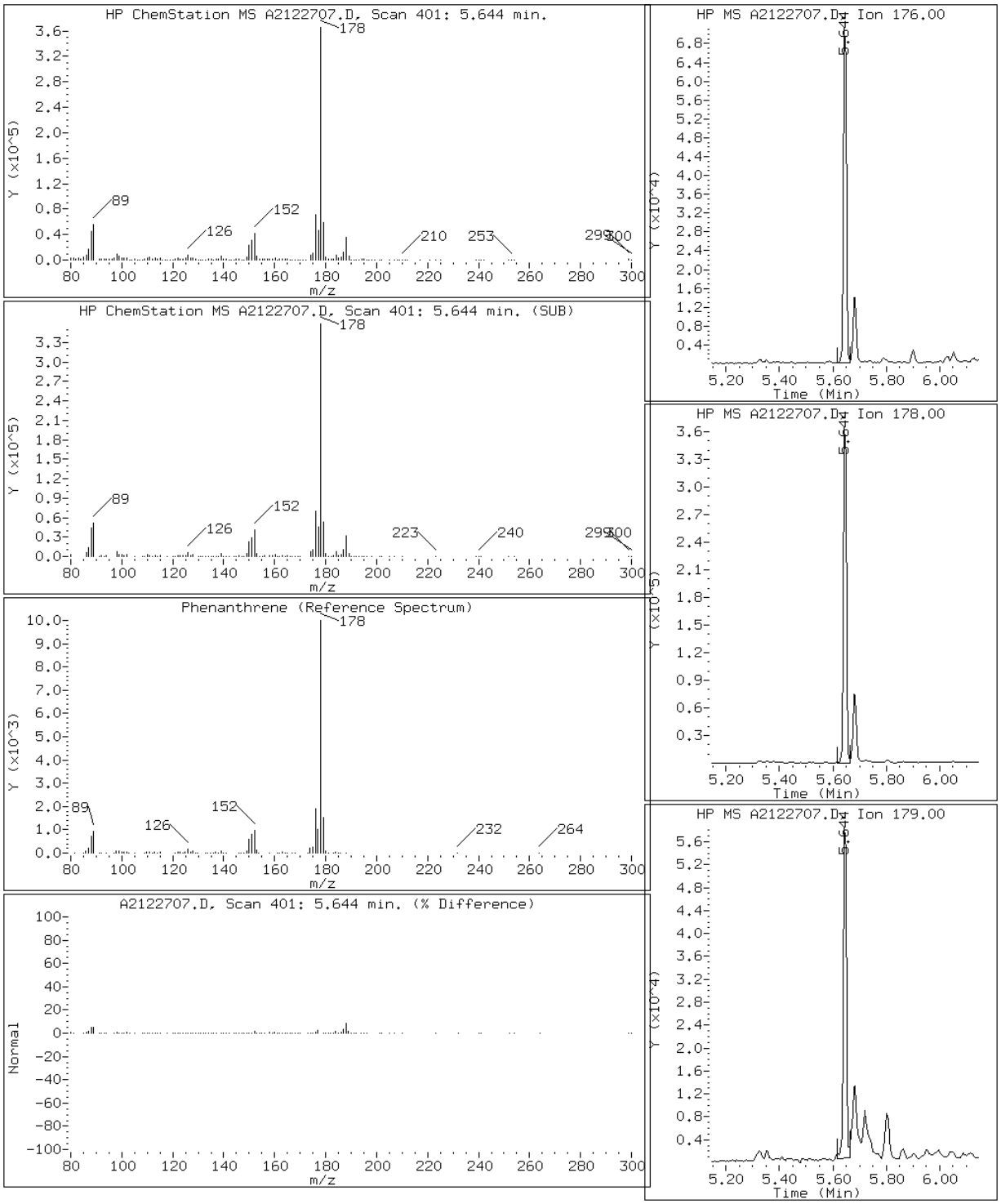
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



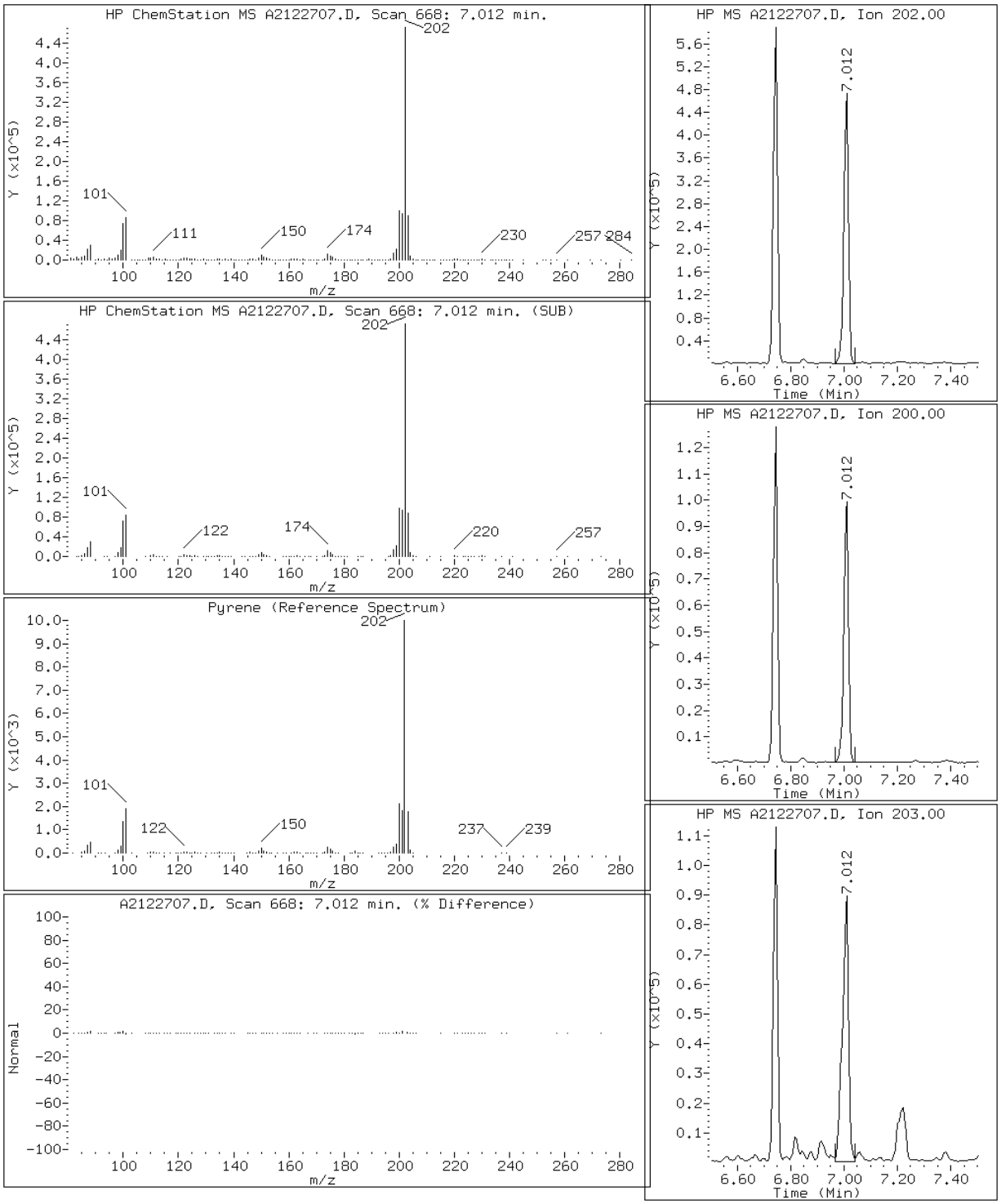
Data File: A2122707.D

Date: 27-DEC-2012 09:28

Client ID: CV0511K-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-44-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511L-CS | Lab Sample ID: 680-85785-45

Matrix: Solid | Lab File ID: A2122724.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:17

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.07(g) | Date Analyzed: 12/27/2012 17:47

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	55		20	1.8
208-96-8	Acenaphthylene	28		20	1.6
120-12-7	Anthracene	150		20	2.0
56-55-3	Benzo[a]anthracene	760	B	20	1.9
50-32-8	Benzo[a]pyrene	940	B	20	2.1
205-99-2	Benzo[b]fluoranthene	1500	B	20	2.9
191-24-2	Benzo[g,h,i]perylene	260	B	20	3.4
207-08-9	Benzo[k]fluoranthene	600	B	20	2.0
218-01-9	Chrysene	800	B	20	2.3
53-70-3	Dibenz(a,h)anthracene	93	B	20	2.0
206-44-0	Fluoranthene	1300	B	20	1.8
86-73-7	Fluorene	49		20	1.6
193-39-5	Indeno[1,2,3-cd]pyrene	350	B	20	3.4
90-12-0	1-Methylnaphthalene	24		20	1.6
91-57-6	2-Methylnaphthalene	30		20	1.6
91-20-3	Naphthalene	28		20	1.6
85-01-8	Phenanthrene	620		20	1.3
129-00-0	Pyrene	1100	B	20	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	67		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122724.D
Lab Smp Id: 680-85785-A-45-A Client Smp ID: CV0511L-CS
Inj Date : 27-DEC-2012 17:47
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-45-A~98123~2~8270D/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: 19
Dil Factor: 2.00000
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	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.070	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 1 Naphthalene-d8	136	3.706	3.705	(1.000)	1523947	40.0000		
2 Naphthalene	128	3.716	3.720	(1.003)	11985	0.27922	18	
3 2-Methylnaphthalene	142	4.075	4.079	(1.100)	7995	0.29473	20	
4 1-Methylnaphthalene	142	4.131	4.135	(1.115)	6642	0.23660	16	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	785858	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	11563	0.27455	18	
7 Acenaphthene	153	4.679	4.678	(1.004)	13870	0.53600	36	
8 Fluorene	166	4.982	4.980	(1.069)	14182	0.47959	32	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1247084	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	48756	6.05386	400	
11 Anthracene	178	5.684	5.687	(1.009)	61332	1.43933	96	
$ 12 o-Terphenyl	230	5.904	5.903	(1.048)	35227	1.33661	89	
13 Fluoranthene	202	6.744	6.743	(1.197)	636458	12.8555	860	
* 14 Chrysene-d12	240	8.747	8.736	(1.000)	1525869	40.0000		

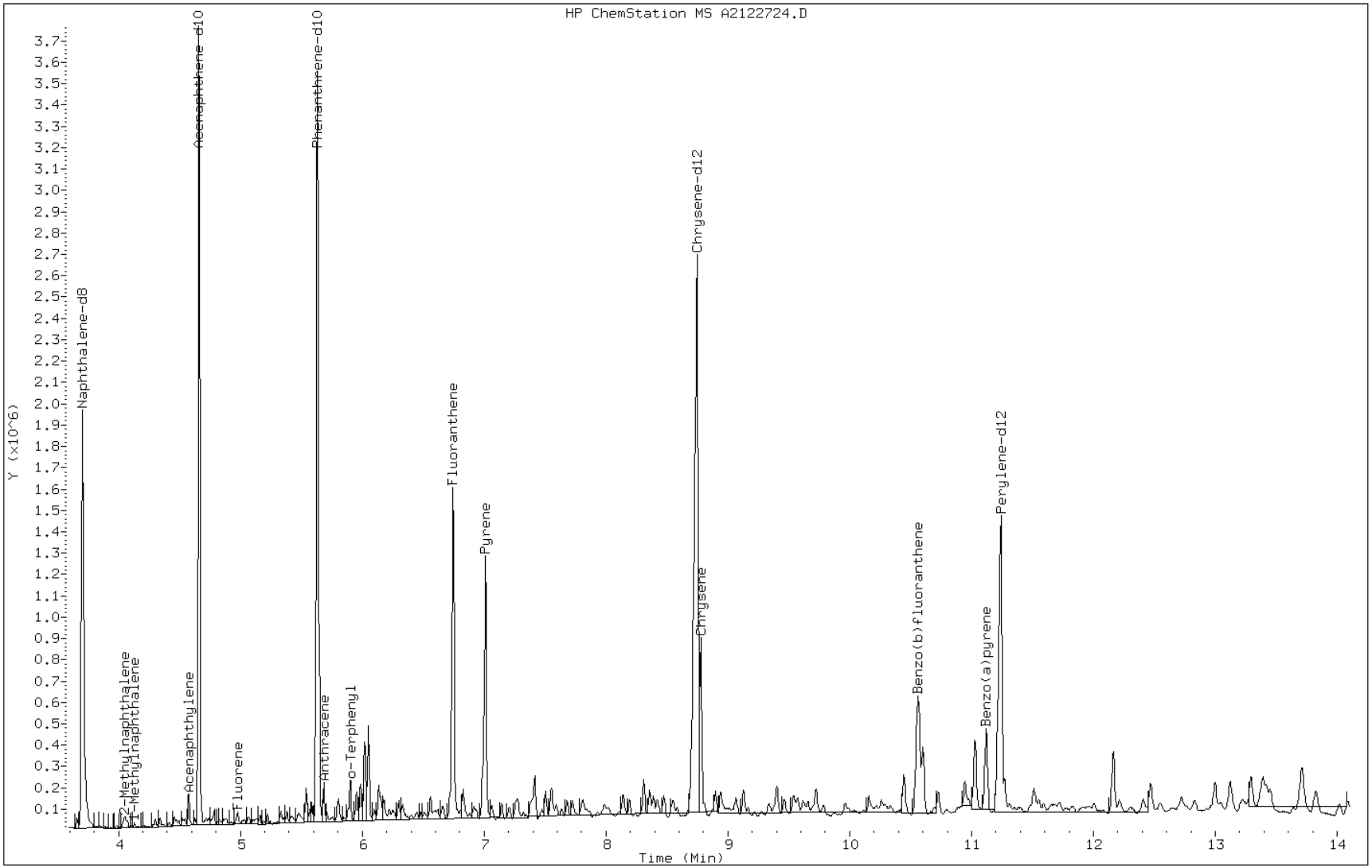
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.011	7.004	(0.801)	574447	11.0460	730	
16 Benzo(a)anthracene	226	8.722	8.700	(0.997)	102818	7.44524	500	
17 Chrysene	228	8.778	8.772	(1.004)	371933	7.86483	520	
* 18 Perylene-d12	264	11.243	11.241	(1.000)	992814	40.0000		
19 Benzo(b)fluoranthene	252	10.561	10.544	(0.939)	465637	15.2084	1000	
20 Benzo(k)fluoranthene	252	10.602	10.596	(0.943)	182647	5.84103	390	
21 Benzo(a)pyrene	252	11.120	11.113	(0.989)	256395	9.26816	620	
22 Indeno(1,2,3-cd)pyrene	276	13.000	12.993	(1.156)	95244	3.41625	230	
23 Dibenzo(a,h)anthracene	278	13.036	13.039	(1.159)	25691	0.90957	60	
24 Benzo(g,h,i)perylene	276	13.451	13.444	(1.196)	70635	2.55737	170	

Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW



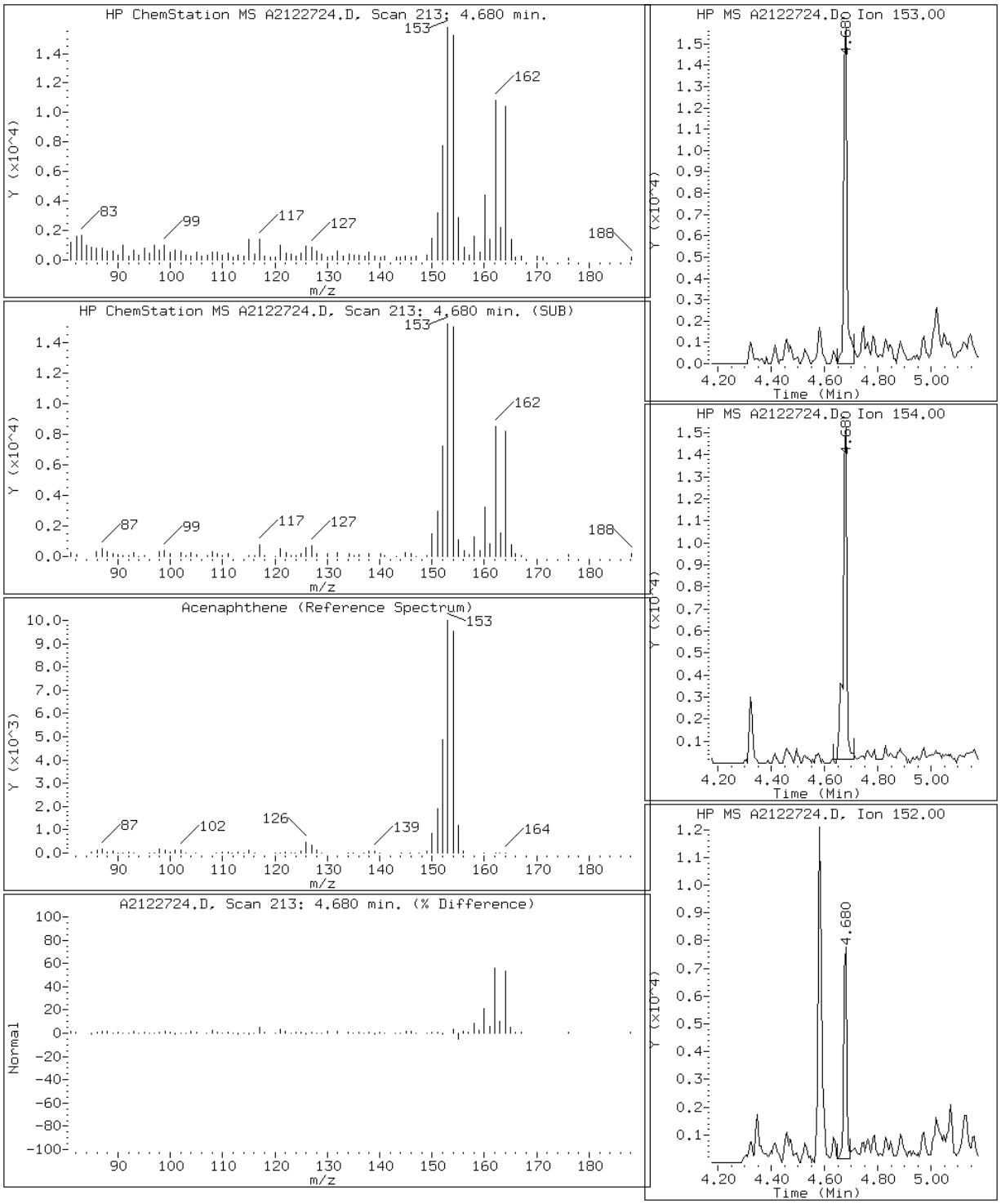
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

7 Acenaphthene



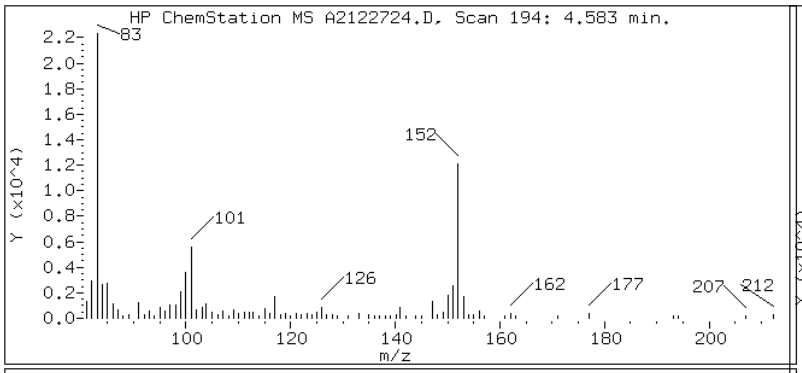
Data File: A2122724.D

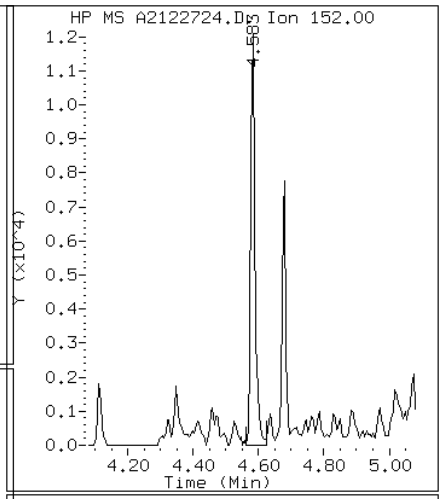
Date: 27-DEC-2012 17:47

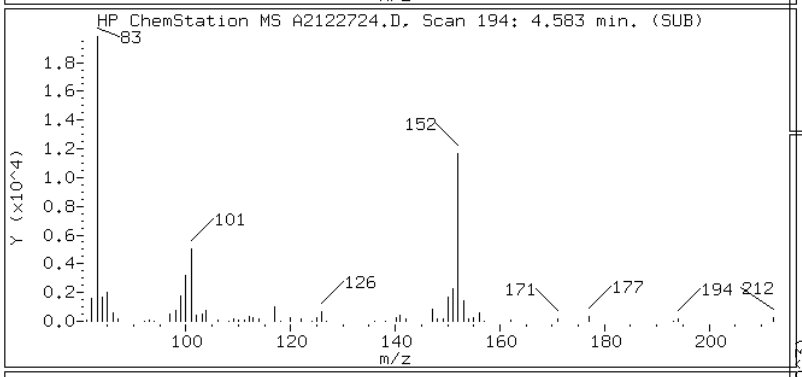
Client ID: CV0511L-CS Instrument: TSMA5973.i

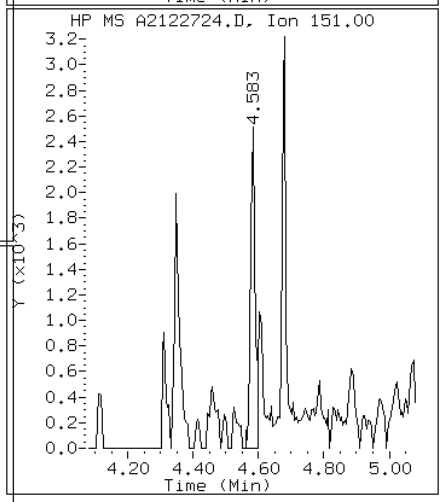
Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

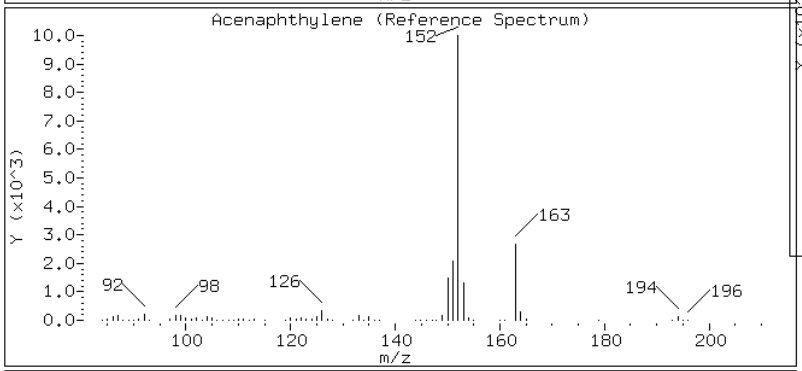
6 Acenaphthylene

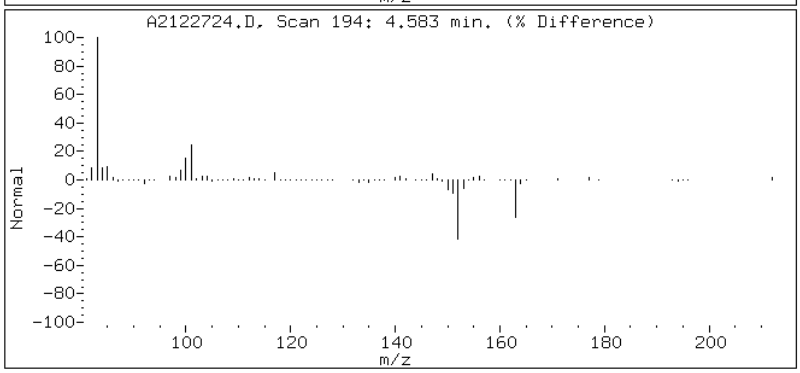












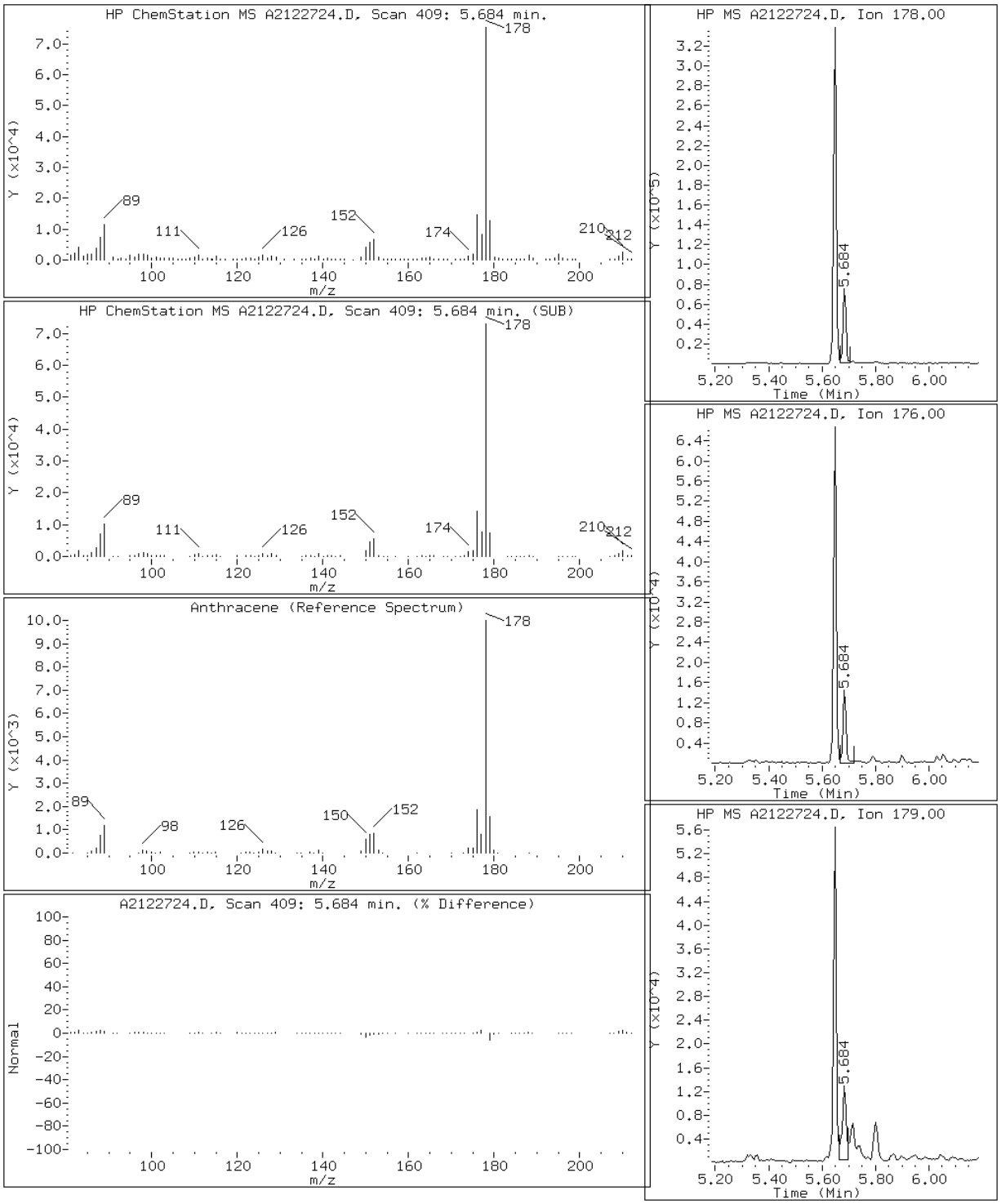
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

11 Anthracene



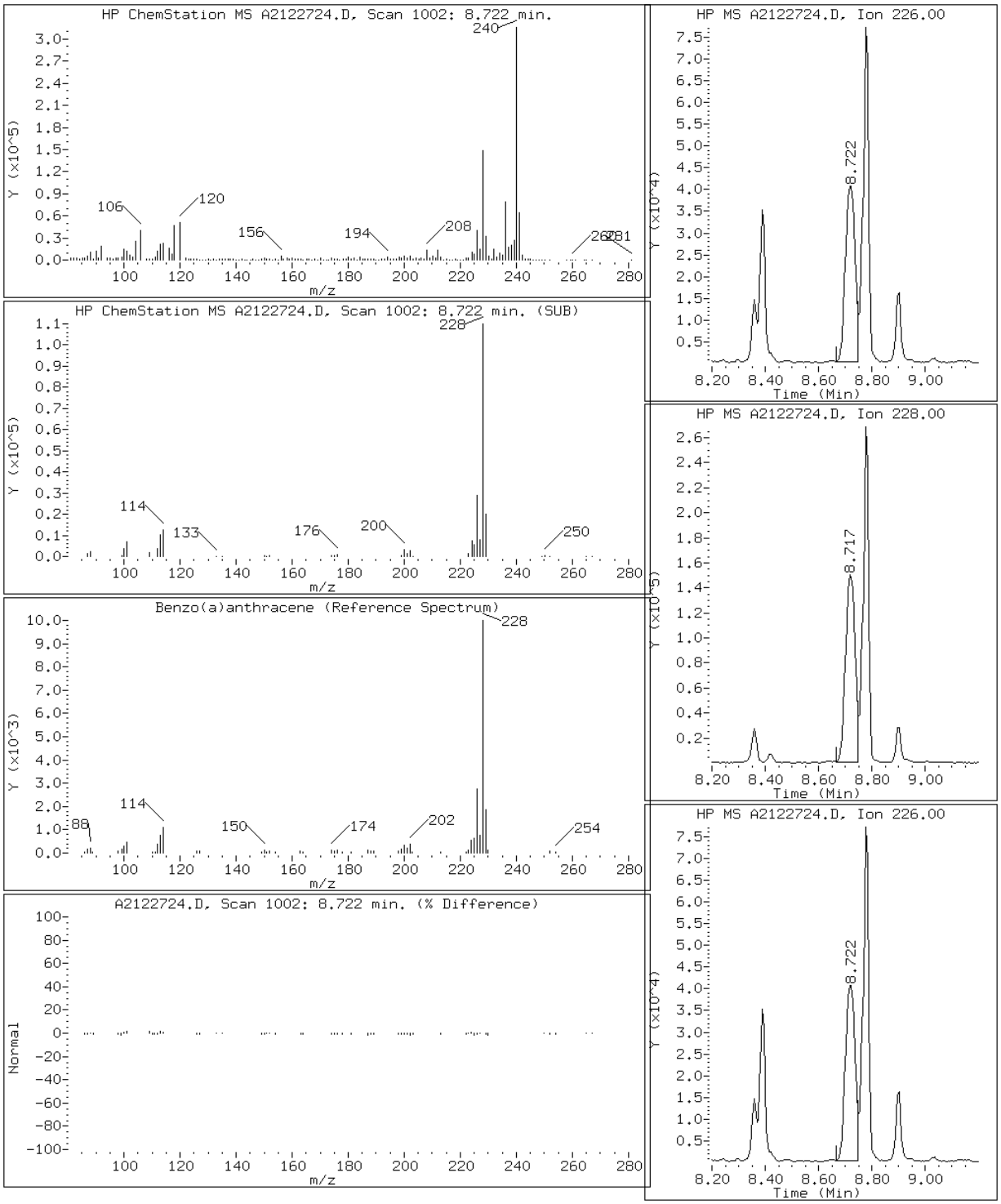
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

16 Benzo(a)anthracene



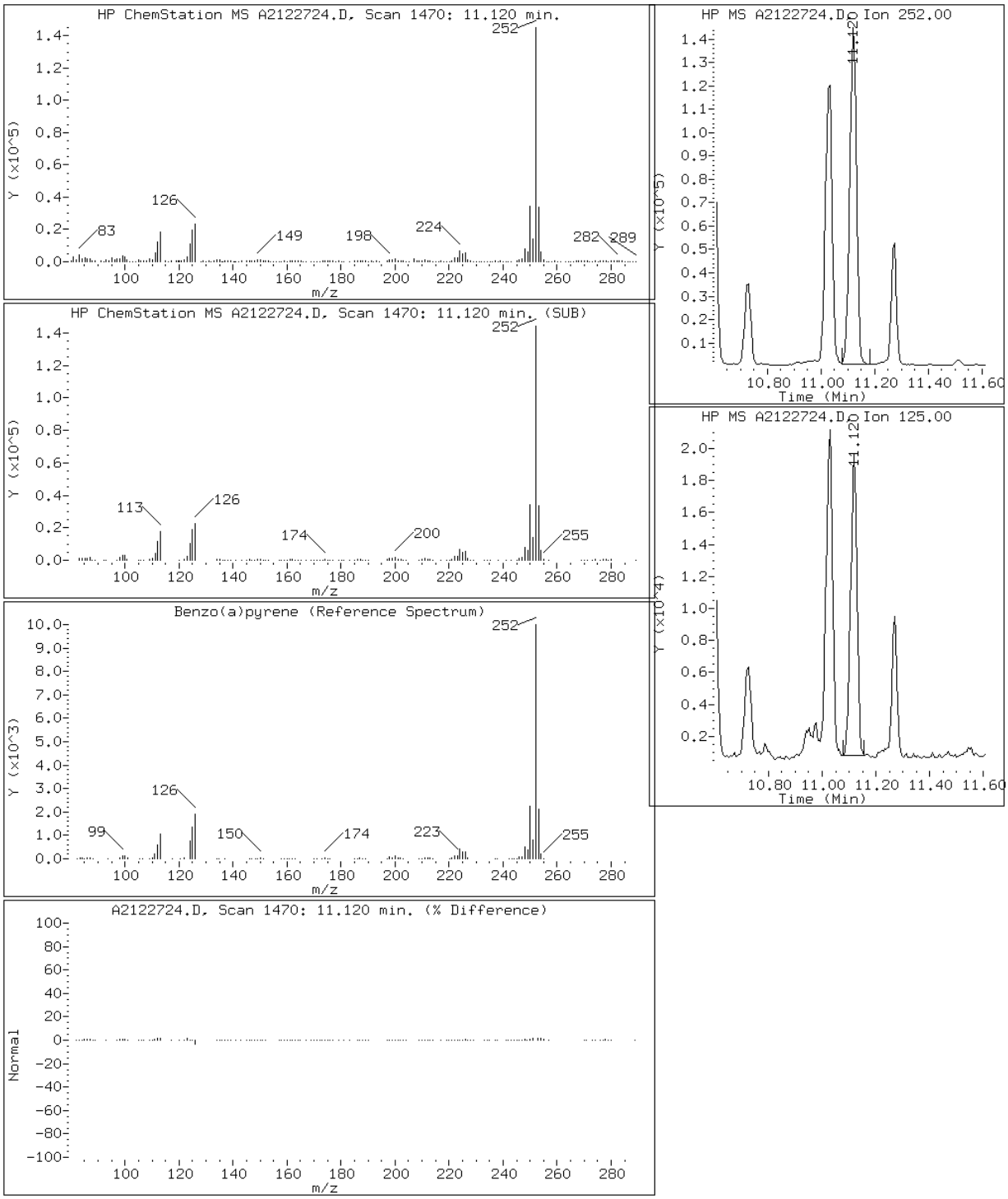
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

21 Benzo(a)pyrene



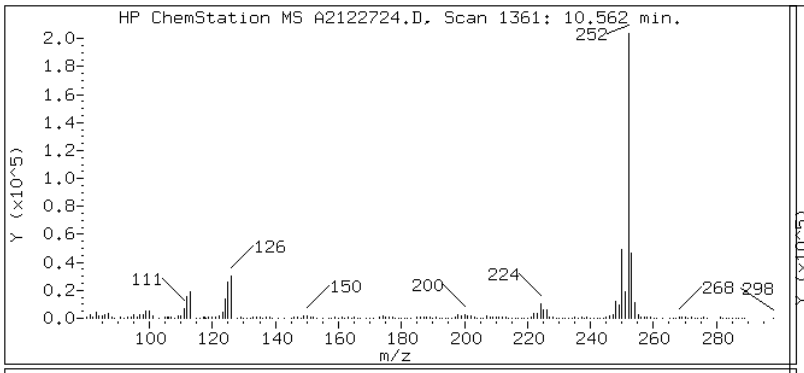
Data File: A2122724.D

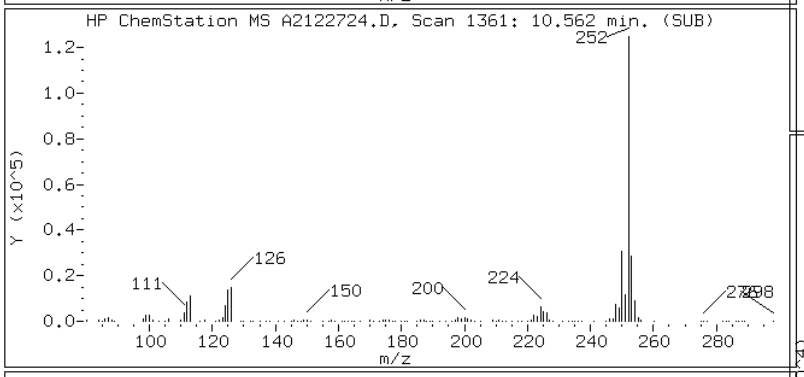
Date: 27-DEC-2012 17:47

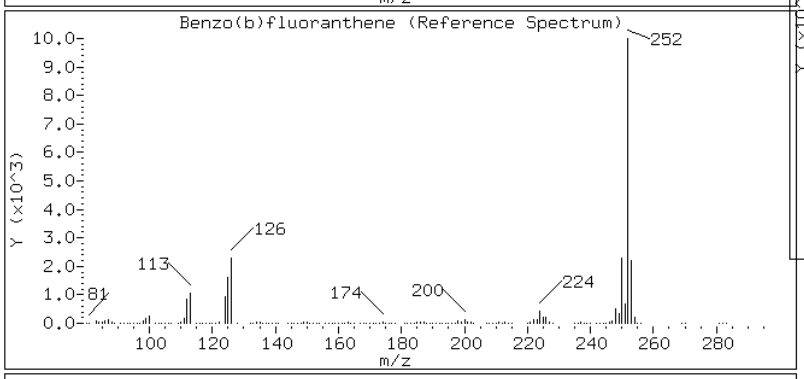
Client ID: CV0511L-CS Instrument: TSMA5973.i

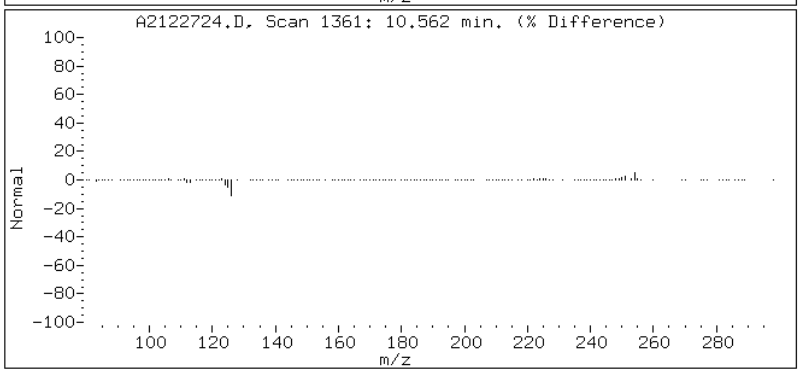
Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

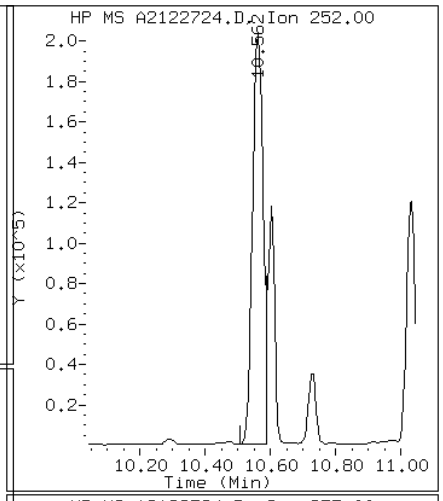
19 Benzo(b)fluoranthene

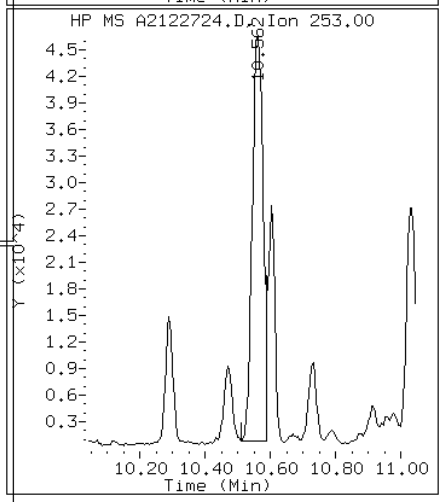












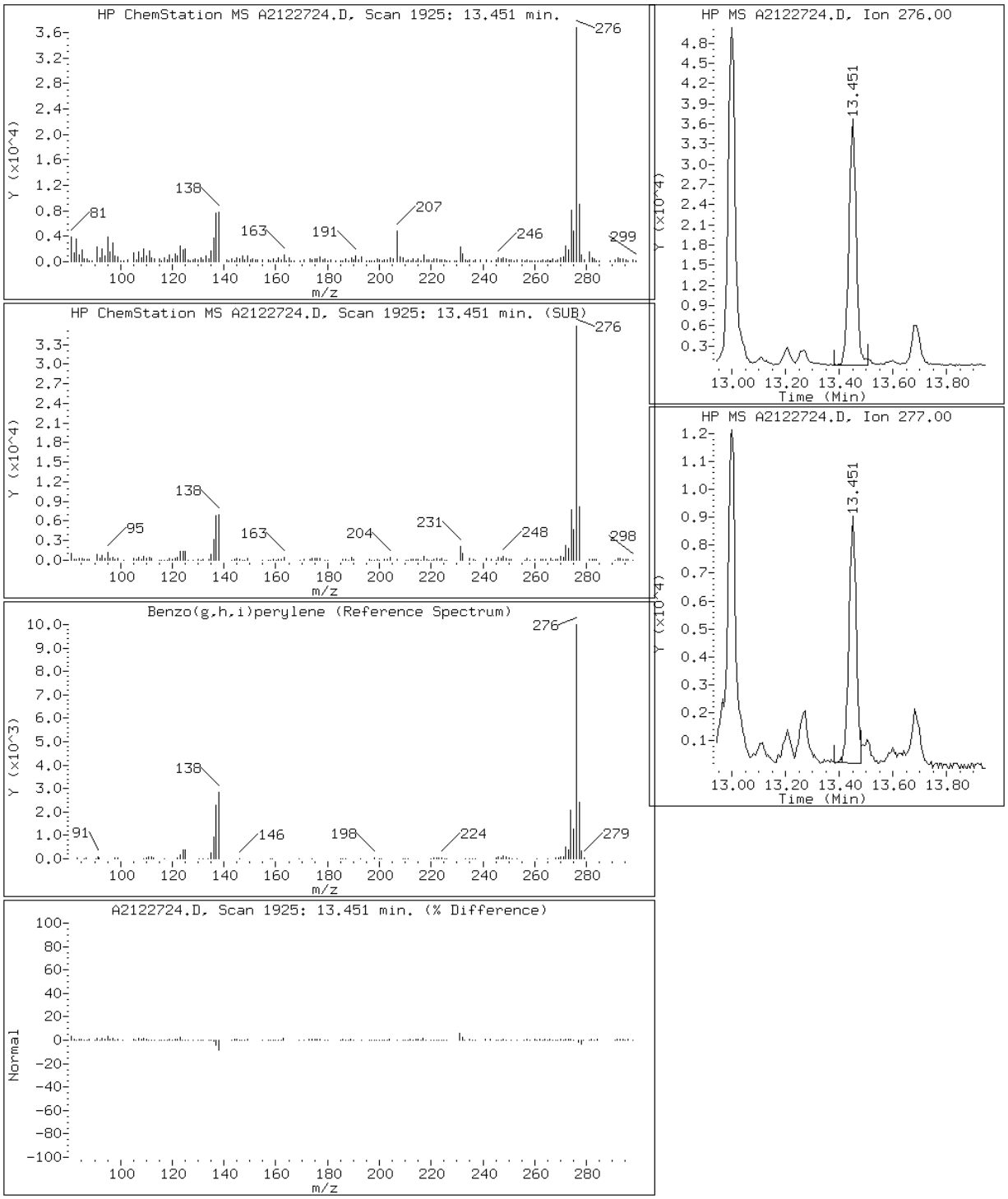
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



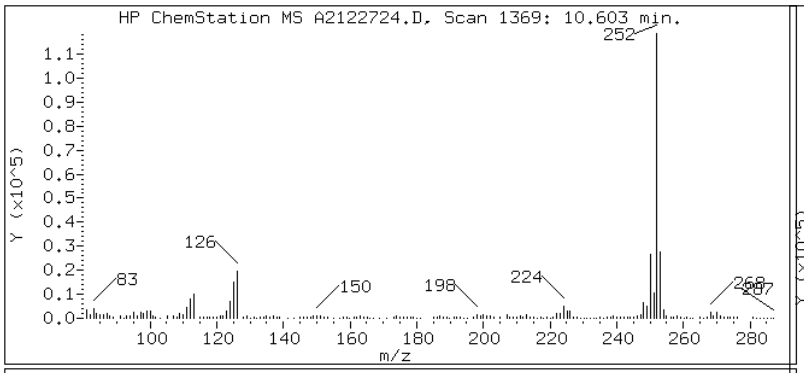
Data File: A2122724.D

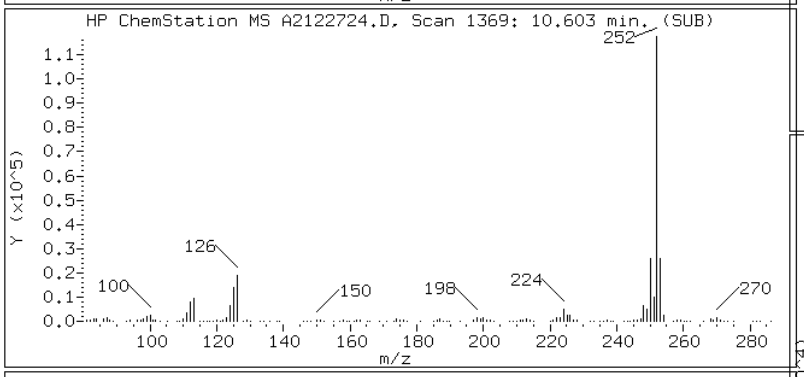
Date: 27-DEC-2012 17:47

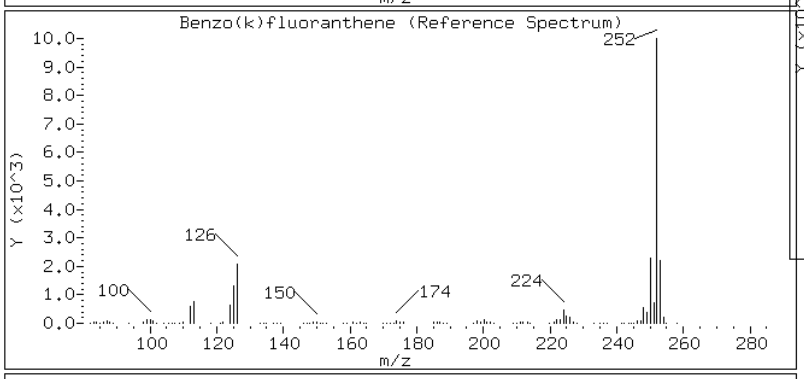
Client ID: CV0511L-CS Instrument: TSMA5973.i

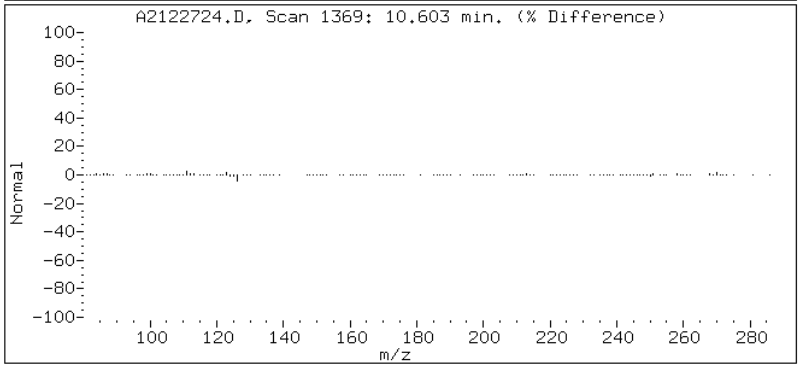
Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

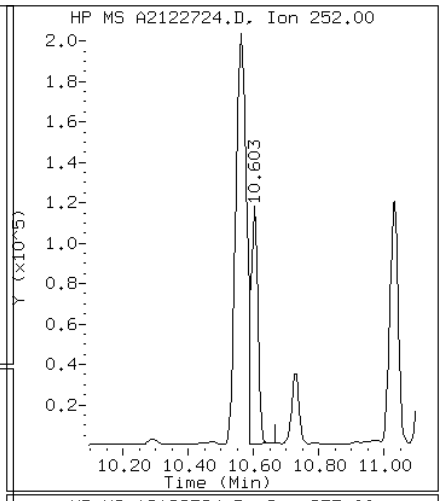
20 Benzo(k)fluoranthene

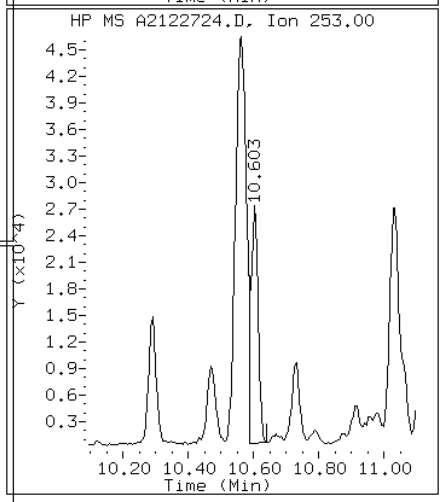












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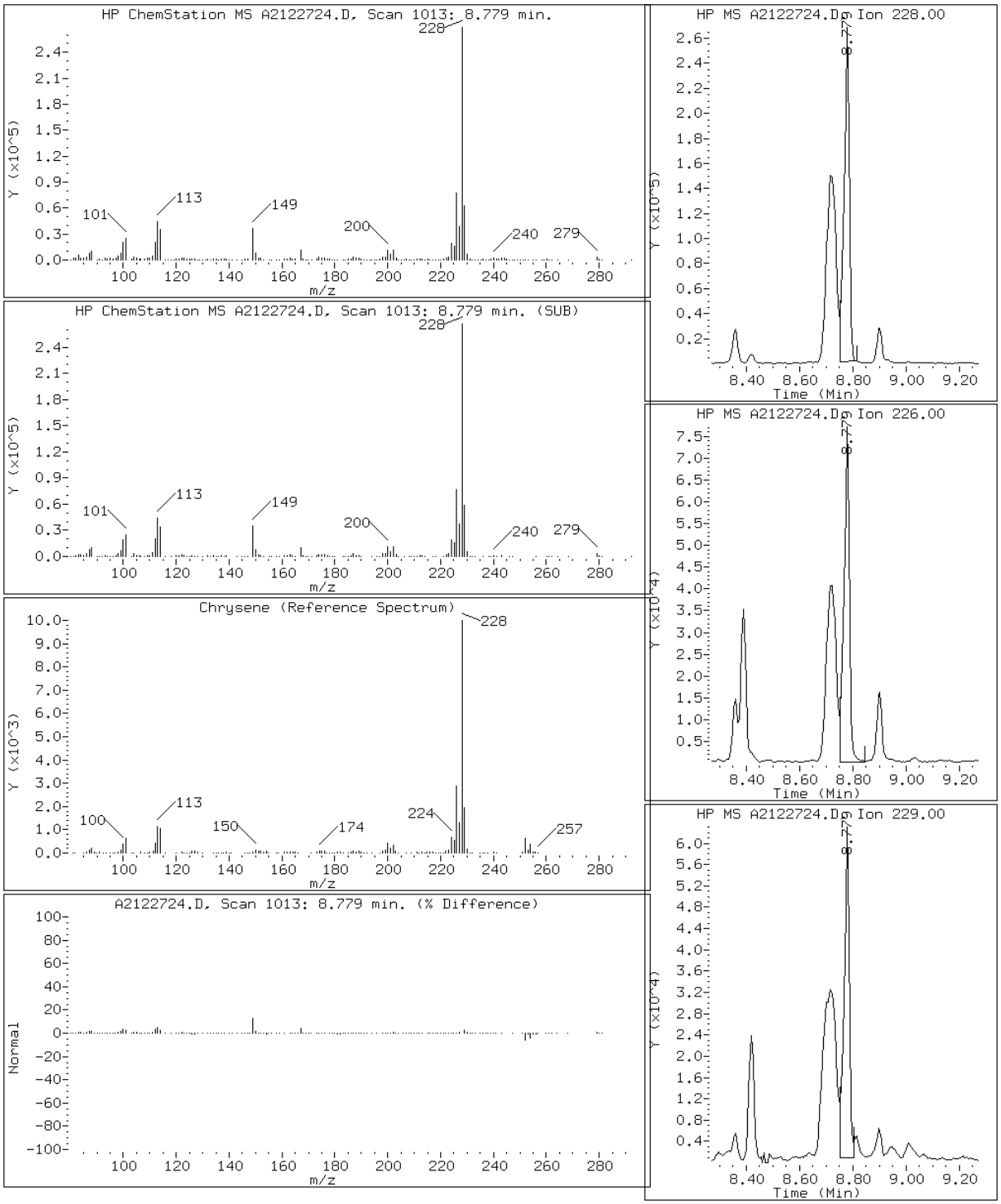
Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

17 Chrysene



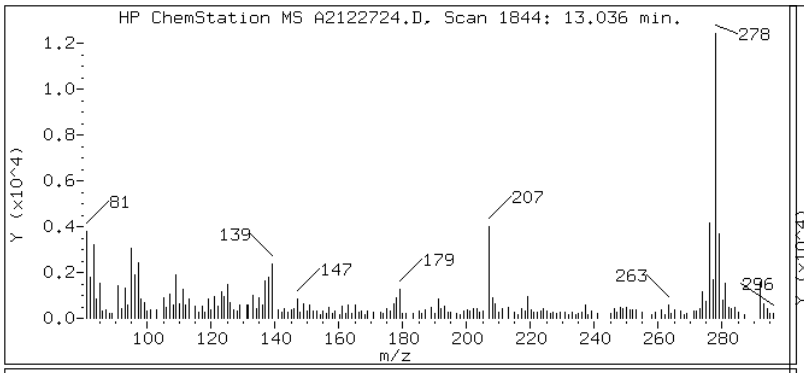
Data File: A2122724.D

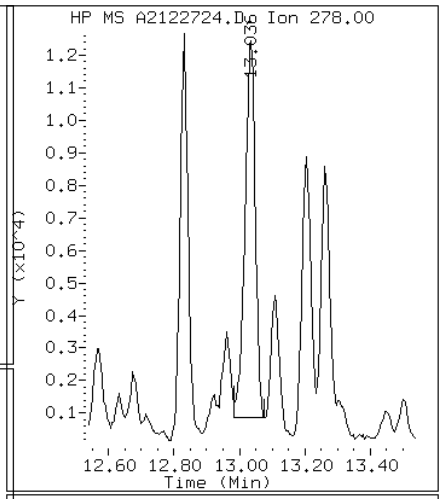
Date: 27-DEC-2012 17:47

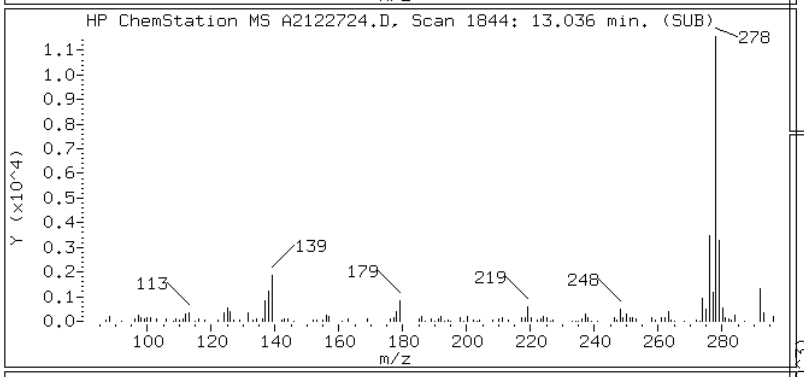
Client ID: CV0511L-CS Instrument: TSMA5973.i

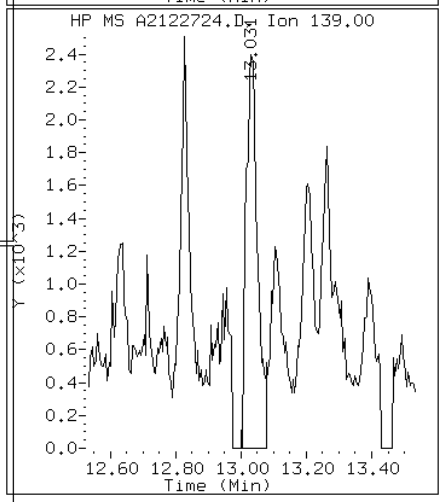
Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

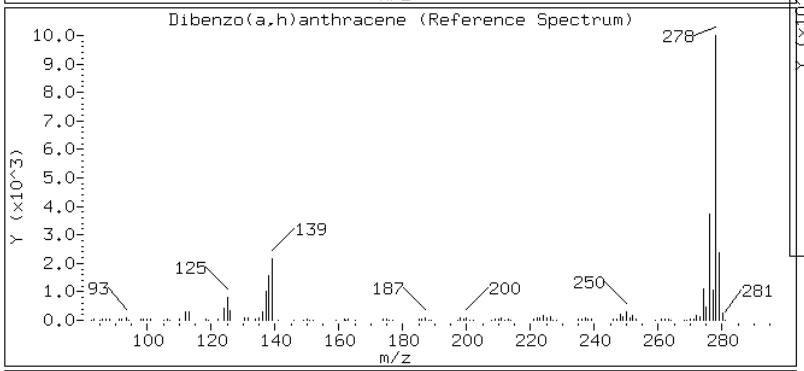
23 Dibenzo(a,h)anthracene

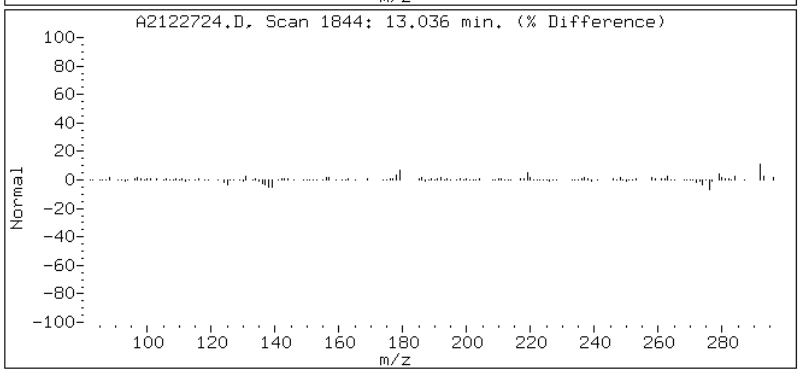












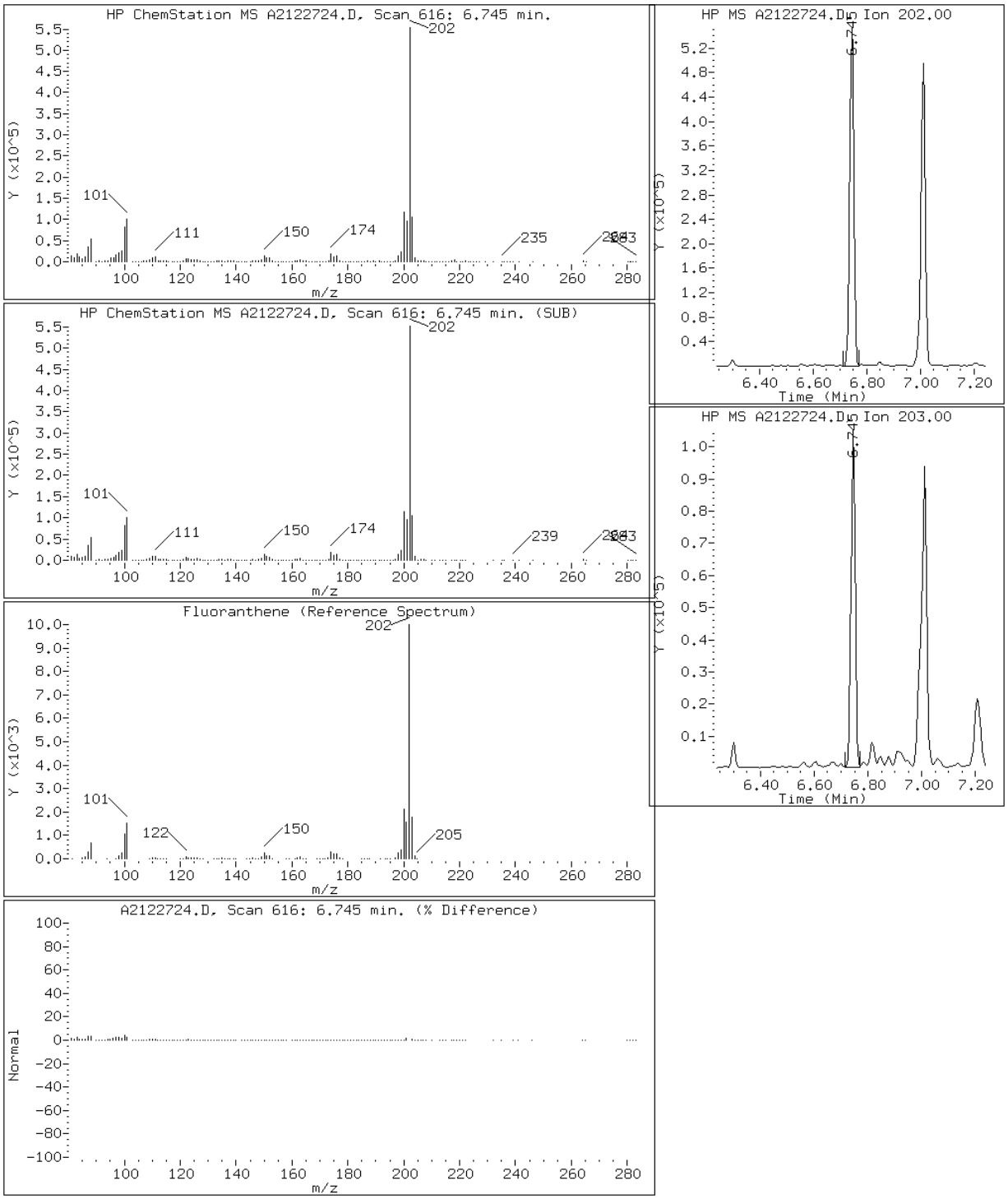
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

13 Fluoranthene



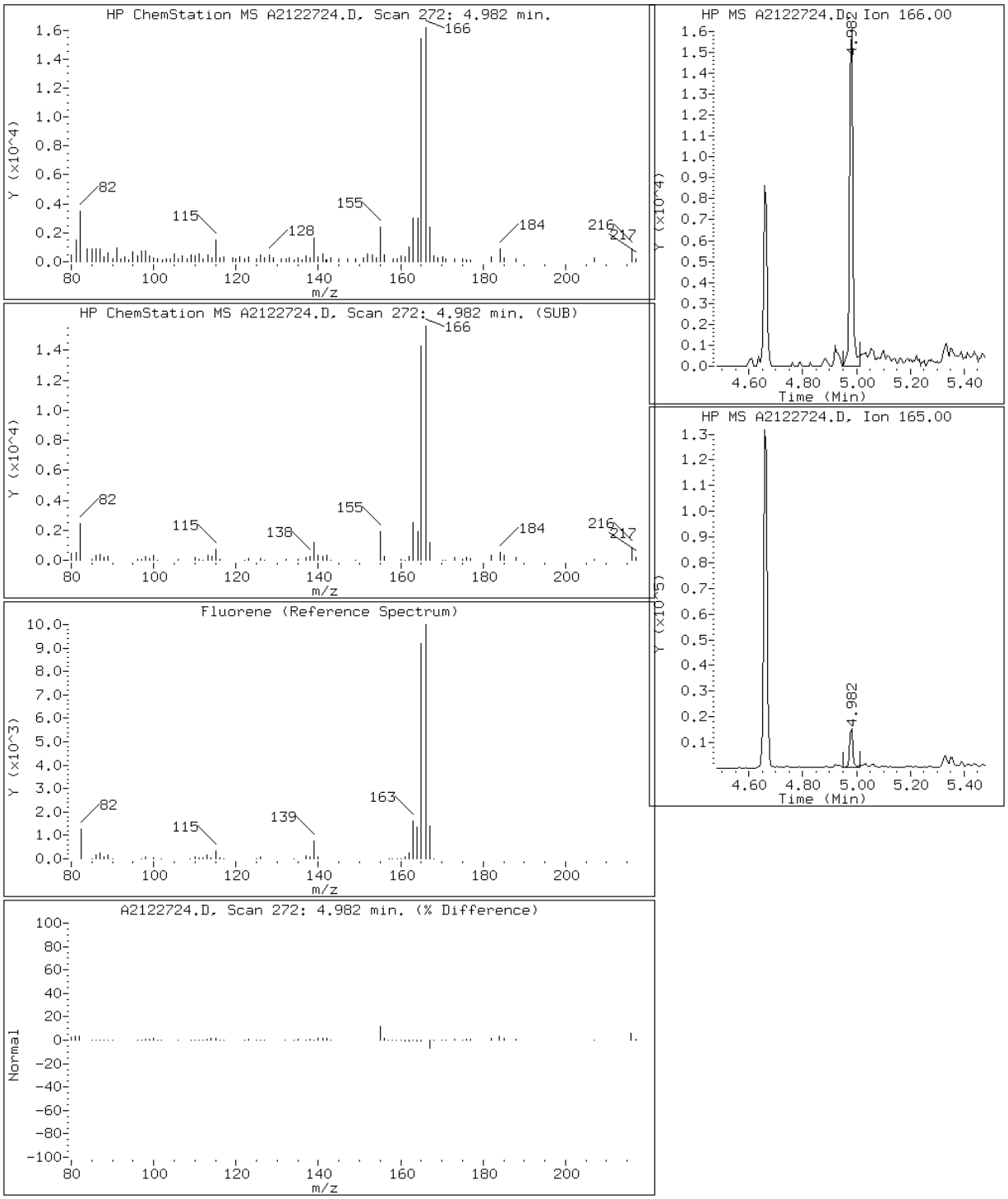
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

8 Fluorene



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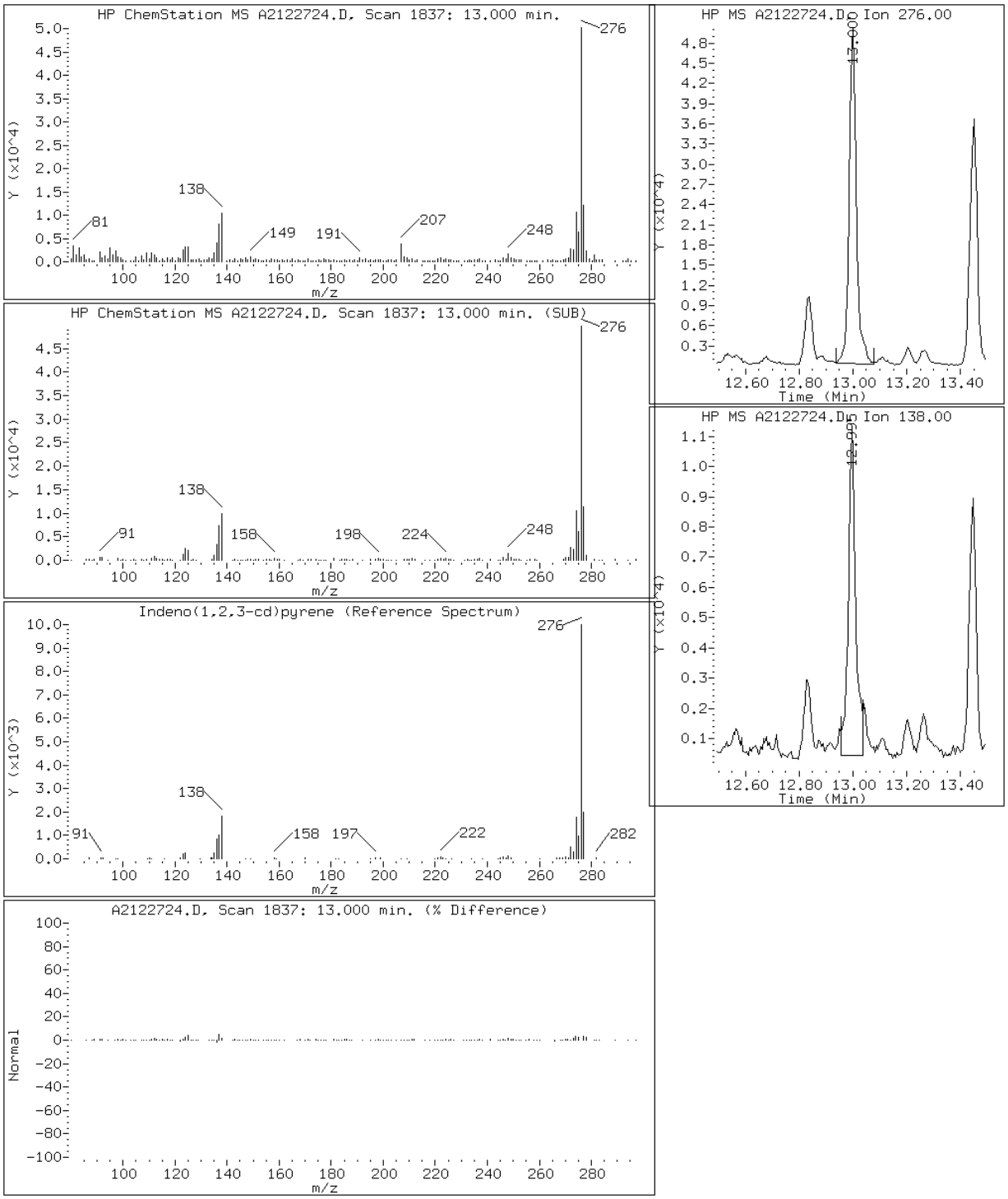
Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

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



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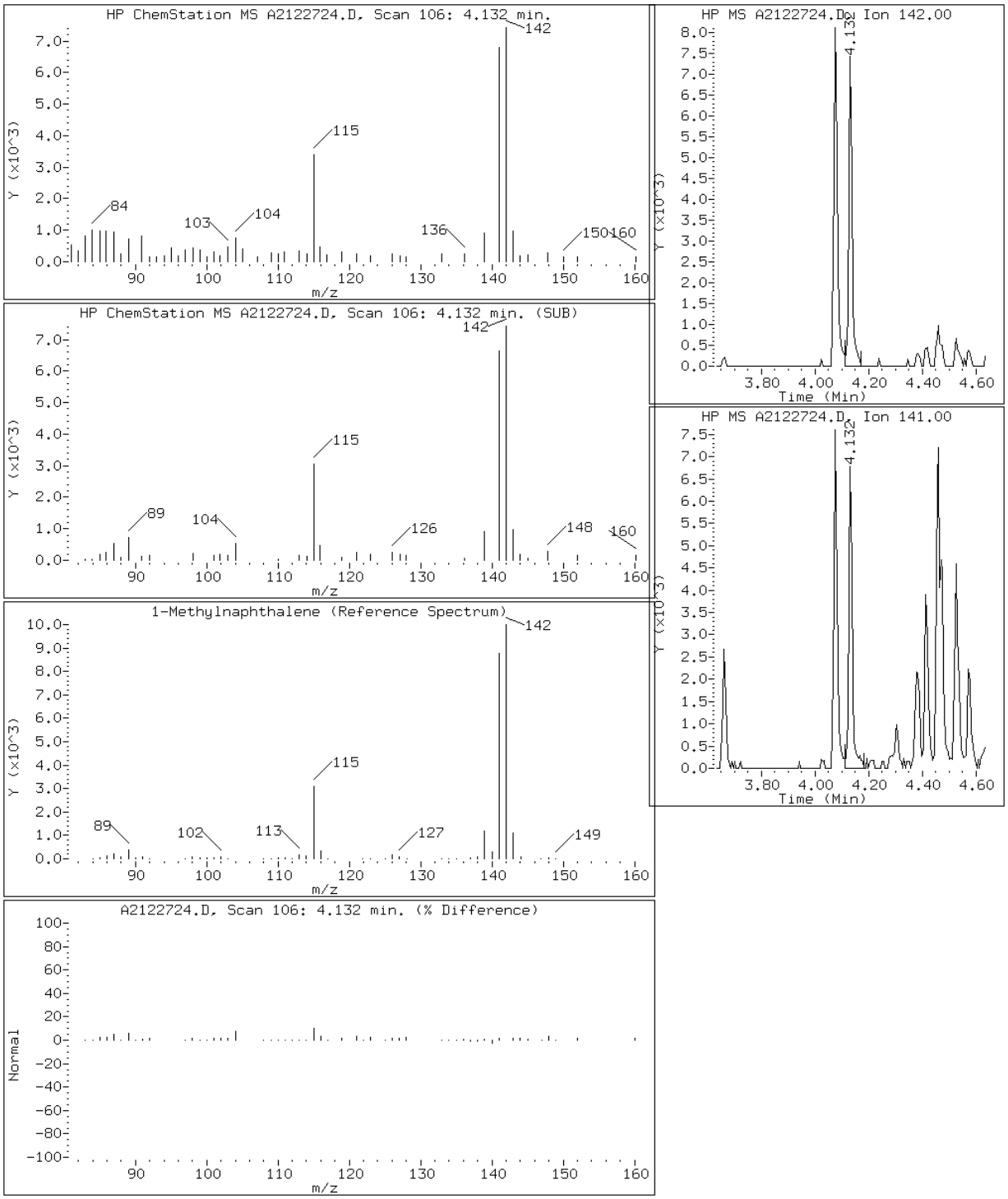
Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

4 1-Methylnaphthalene



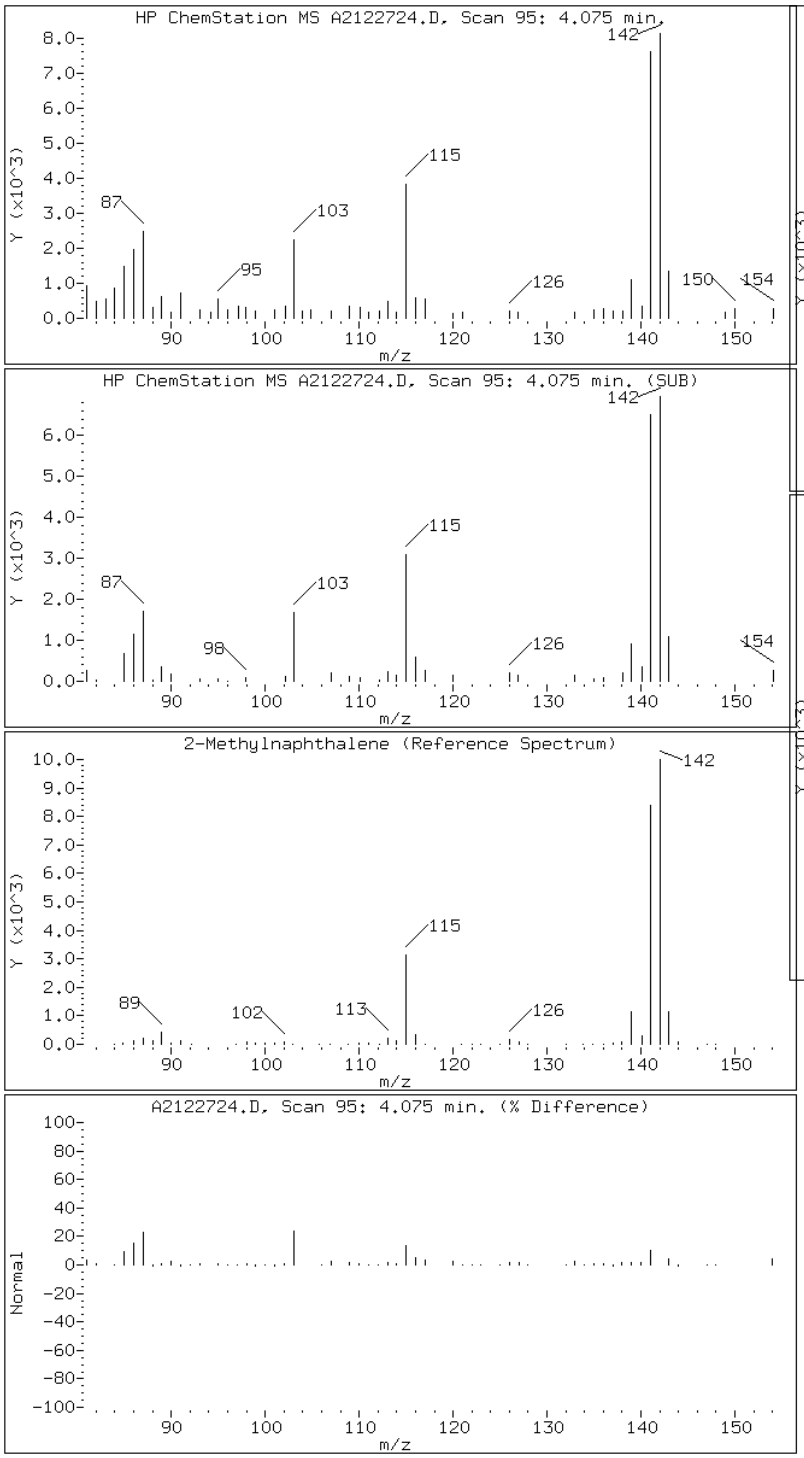
Data File: A2122724.D

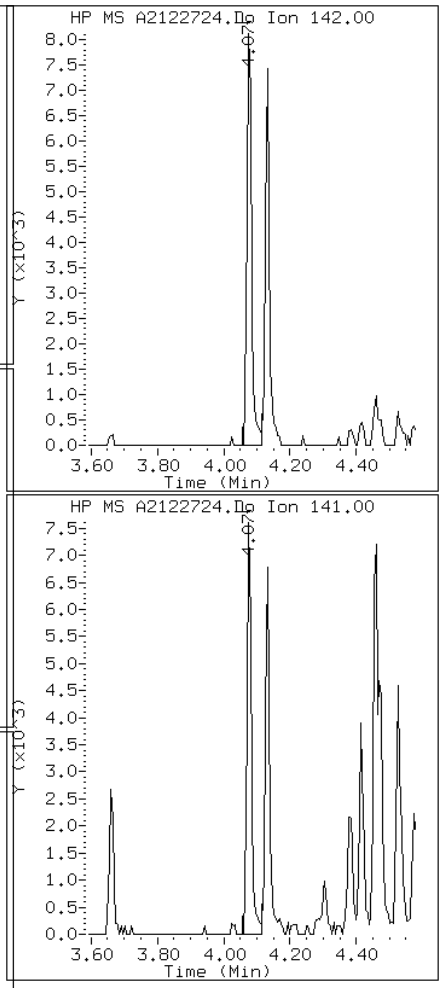
Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

3 2-Methylnaphthalene





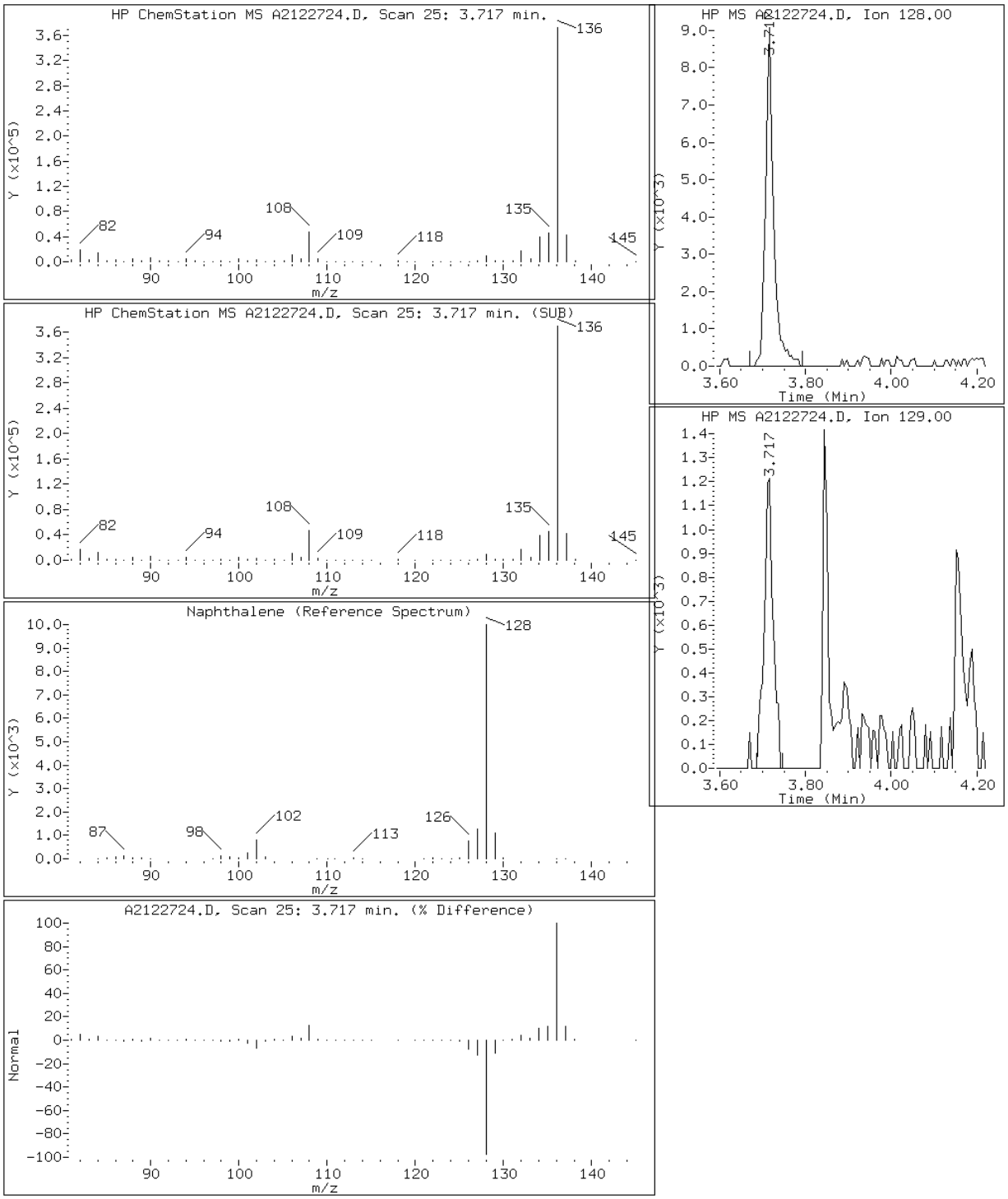
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

2 Naphthalene



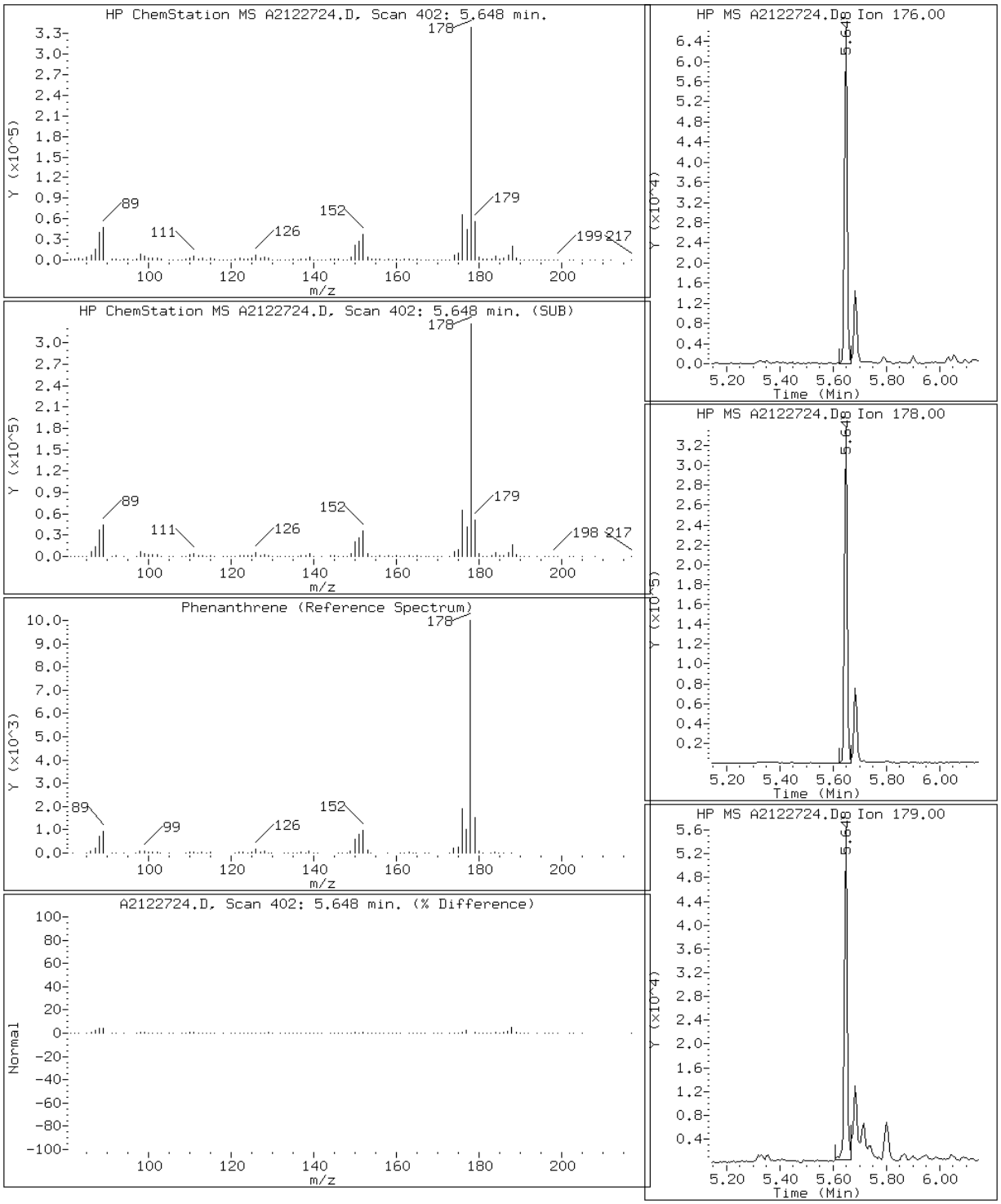
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

10 Phenanthrene



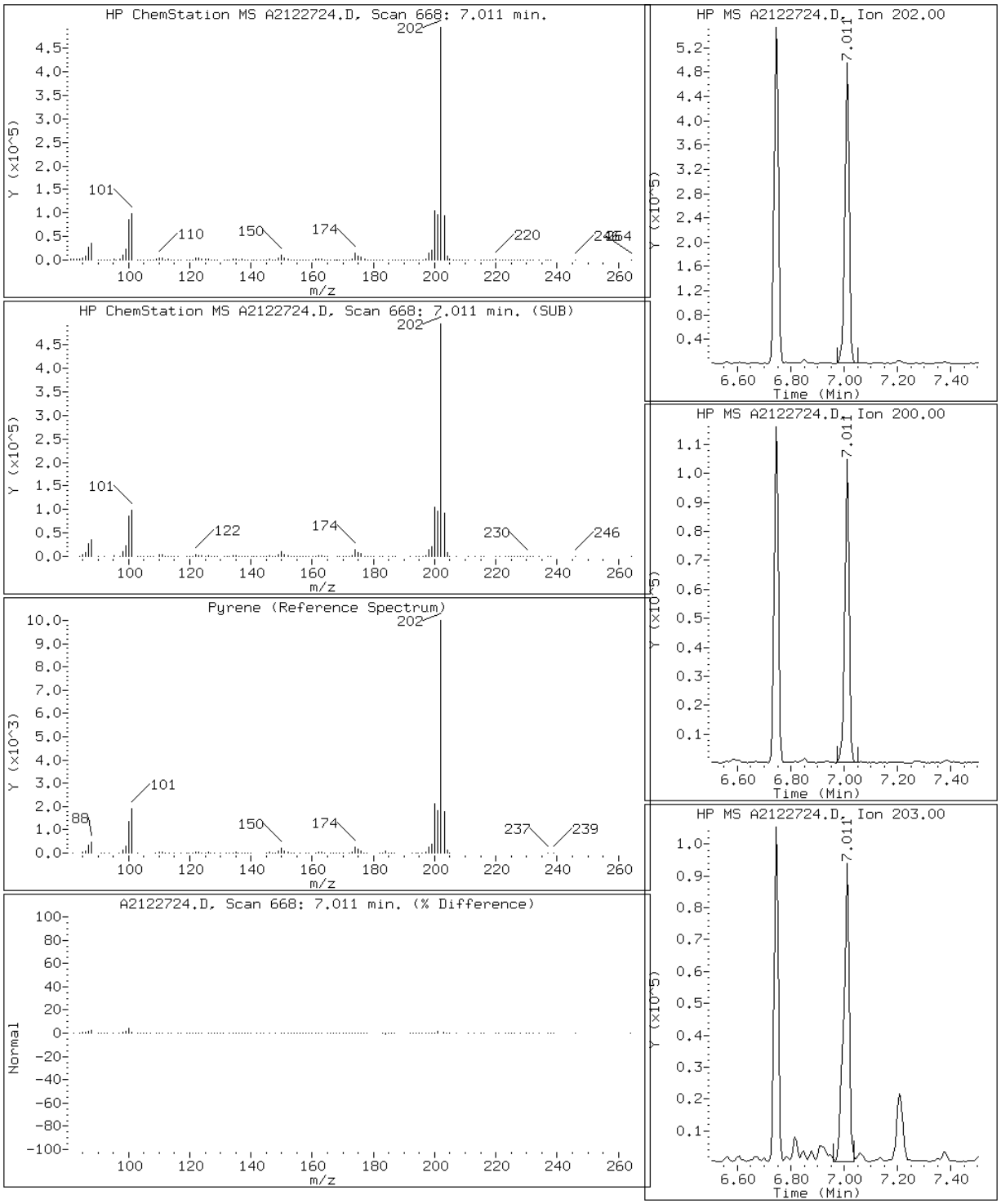
Data File: A2122724.D

Date: 27-DEC-2012 17:47

Client ID: CV0511L-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-45-A~98123~2~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511M-CS | Lab Sample ID: 680-85785-46

Matrix: Solid | Lab File ID: A2122709.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:30

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.88(g) | Date Analyzed: 12/27/2012 10:07

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

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

% Moisture: 33.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	19		9.8	0.85
208-96-8	Acenaphthylene	10		9.8	0.77
120-12-7	Anthracene	52		9.8	0.96
56-55-3	Benzo[a]anthracene	320	B	9.8	0.91
50-32-8	Benzo[a]pyrene	490	B	9.8	0.99
205-99-2	Benzo[b]fluoranthene	700	B	9.8	1.4
191-24-2	Benzo[g,h,i]perylene	280	B	9.8	1.6
207-08-9	Benzo[k]fluoranthene	230	B	9.8	0.94
218-01-9	Chrysene	340	B	9.8	1.1
53-70-3	Dibenz(a,h)anthracene	92	B	9.8	0.95
206-44-0	Fluoranthene	500	B	9.8	0.88
86-73-7	Fluorene	16		9.8	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	320	B	9.8	1.6
90-12-0	1-Methylnaphthalene	15		9.8	0.77
91-57-6	2-Methylnaphthalene	18		9.8	0.76
91-20-3	Naphthalene	17		9.8	0.76
85-01-8	Phenanthrene	240		9.8	0.64
129-00-0	Pyrene	460	B	9.8	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	69		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122709.D
Lab Smp Id: 680-85785-A-46-A Client Smp ID: CV0511M-CS
Inj Date : 27-DEC-2012 10:07
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-46-A~98123~1~8270D/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: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.880	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	3.696	3.705	(1.000)	1602973	40.0000		
2 Naphthalene	128	3.707	3.720	(1.003)	15541	0.34421	11	
3 2-Methylnaphthalene	142	4.070	4.079	(1.101)	10792	0.37823	12	
4 1-Methylnaphthalene	142	4.127	4.135	(1.116)	9204	0.31170	10	
* 5 Acenaphthene-d10	164	4.660	4.663	(1.000)	843119	40.0000		
6 Acenaphthylene	152	4.578	4.581	(0.982)	9425	0.20859	6.8	
7 Acenaphthene	153	4.675	4.678	(1.003)	10609	0.38160	12	
8 Fluorene	166	4.977	4.980	(1.068)	10562	0.33292	11	
* 9 Phenanthrene-d10	188	5.633	5.631	(1.000)	1330185	40.0000		
10 Phenanthrene	176	5.643	5.646	(1.002)	41592	4.82518	160	
11 Anthracene	178	5.679	5.687	(1.008)	48810	1.07390	35	
$ 12 o-Terphenyl	230	5.899	5.903	(1.047)	77937	2.77241	90	
13 Fluoranthene	202	6.740	6.743	(1.196)	544688	10.3146	330	
* 14 Chrysene-d12	240	8.743	8.736	(1.000)	1599875	40.0000		

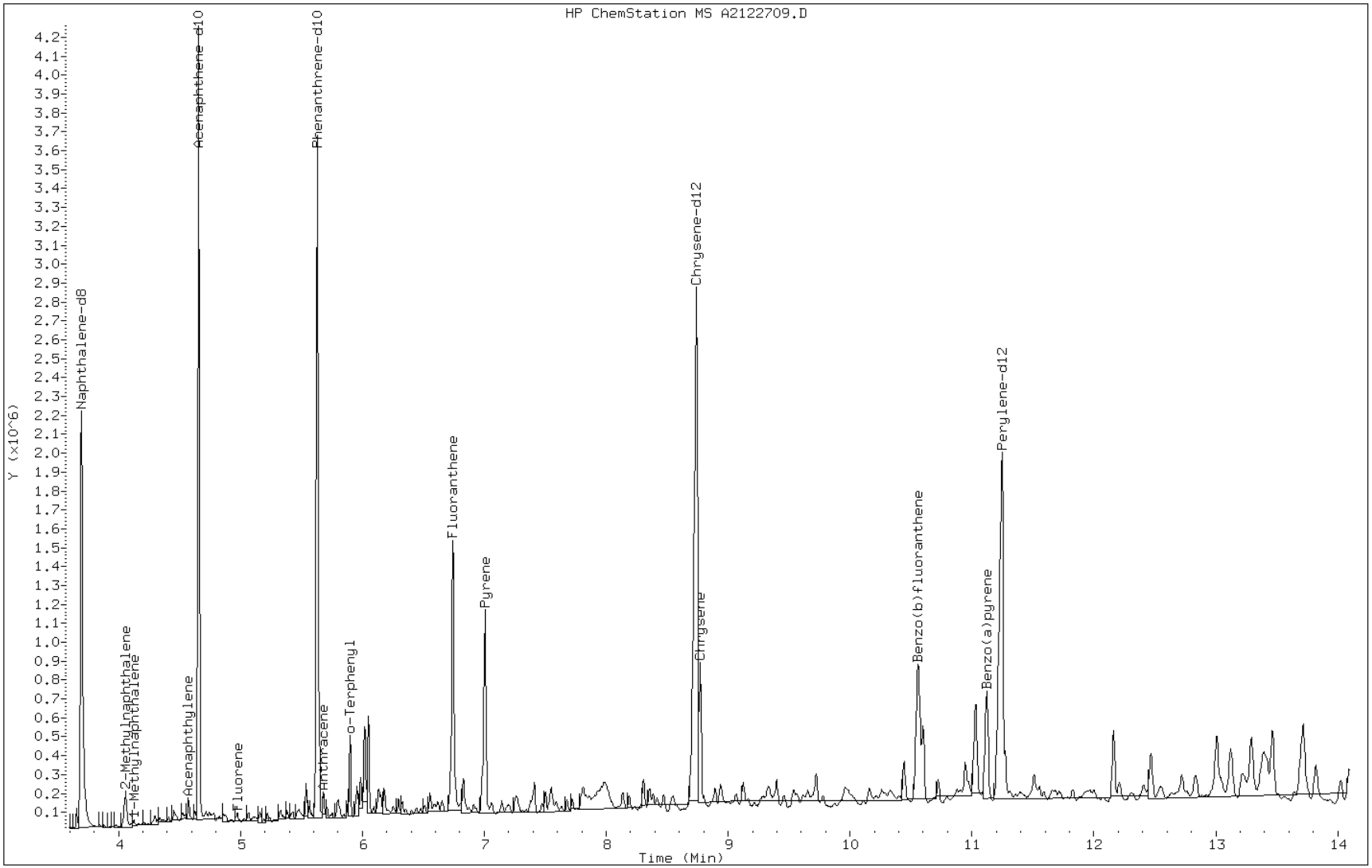
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.006	7.004	(0.801)	514216	9.43040	300	
16 Benzo(a)anthracene	226	8.717	8.700	(0.997)	94659	6.52796	210	
17 Chrysene	228	8.774	8.772	(1.004)	349149	7.04152	230	
* 18 Perylene-d12	264	11.248	11.241	(1.000)	1432351	40.0000		
19 Benzo(b)fluoranthene	252	10.557	10.544	(0.939)	637889	14.4411	470	
20 Benzo(k)fluoranthene	252	10.598	10.596	(0.942)	211127	4.67993	150	
21 Benzo(a)pyrene	252	11.120	11.113	(0.989)	400873	10.0441	320	
22 Indeno(1,2,3-cd)pyrene	276	13.011	12.993	(1.157)	262053	6.51508	210	
23 Dibenzo(a,h)anthracene	278	13.042	13.039	(1.159)	77305	1.89706	61	
24 Benzo(g,h,i)perylene	276	13.462	13.444	(1.197)	230522	5.78502	190	

Data File: A2122709.D

Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW



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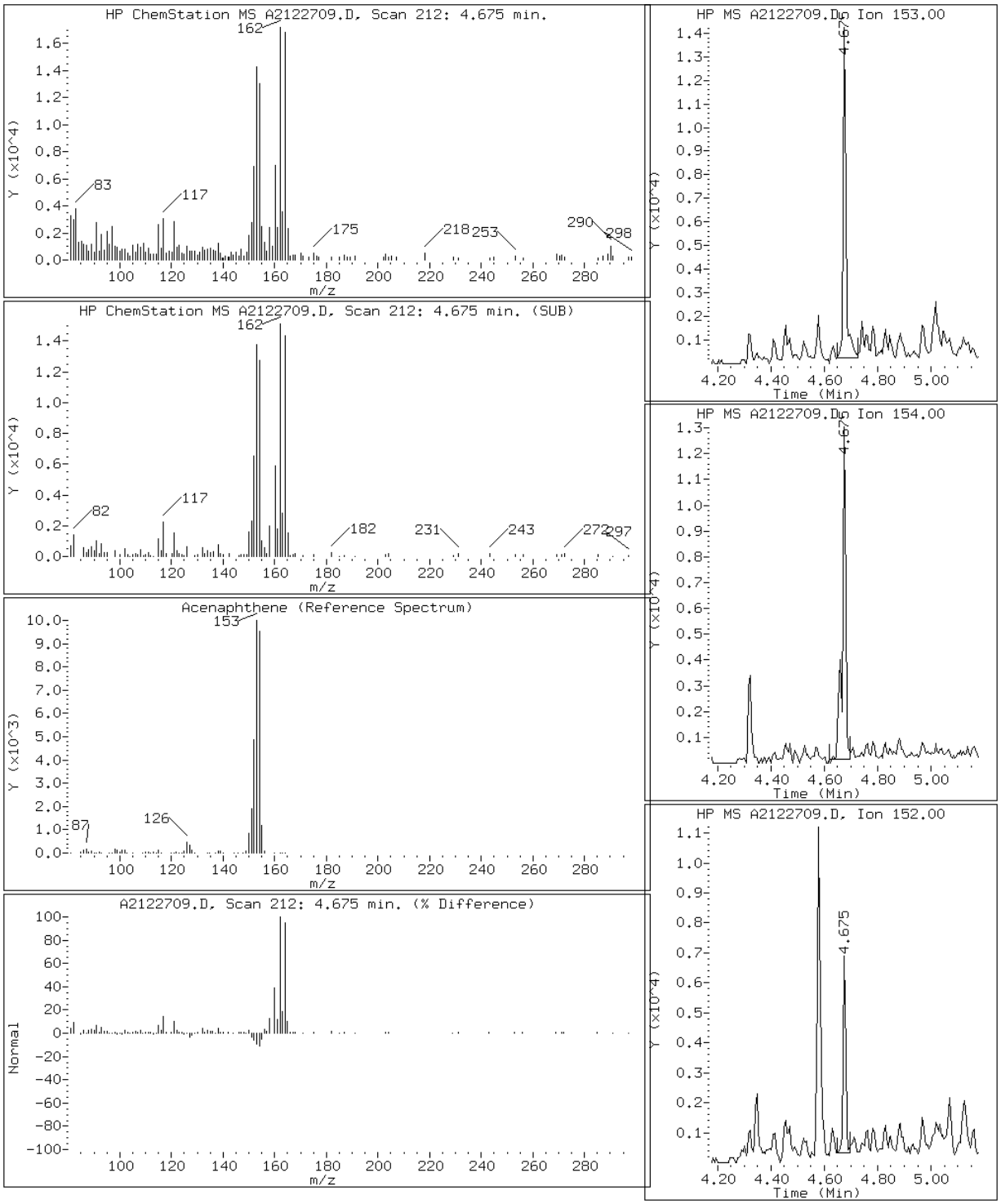
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



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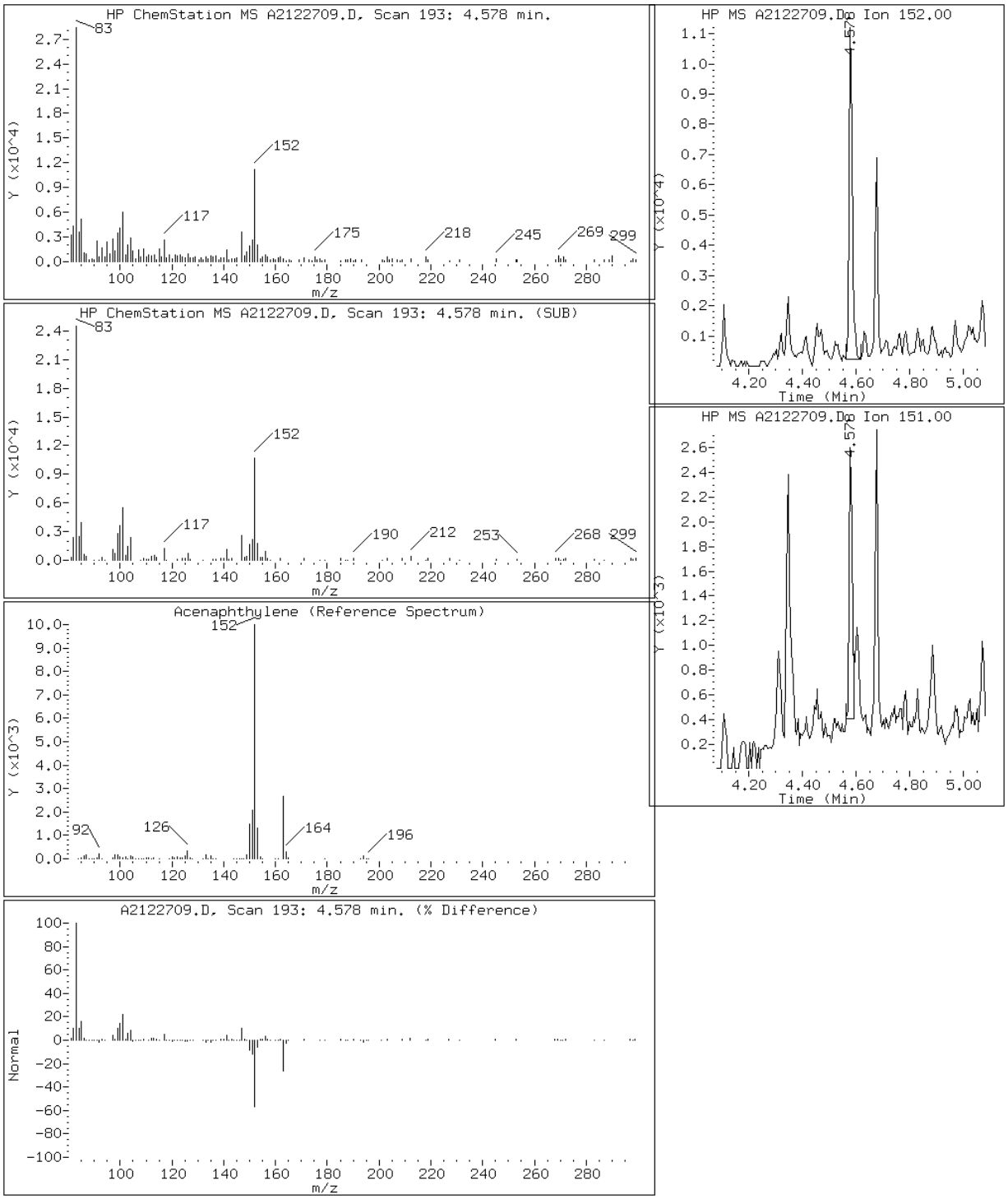
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

6 Acenaphthylene



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Date: 27-DEC-2012 10:07

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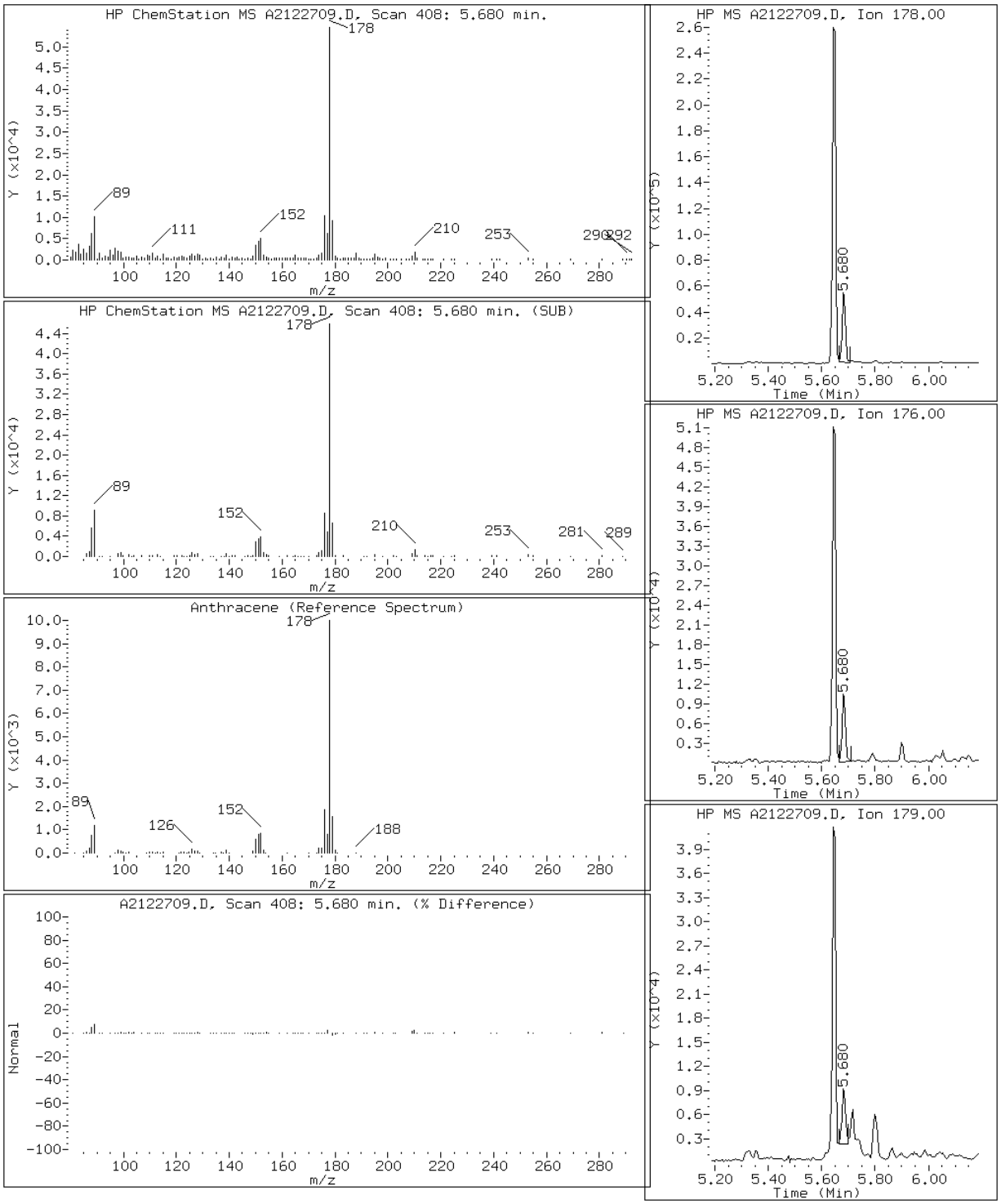
Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

11 Anthracene



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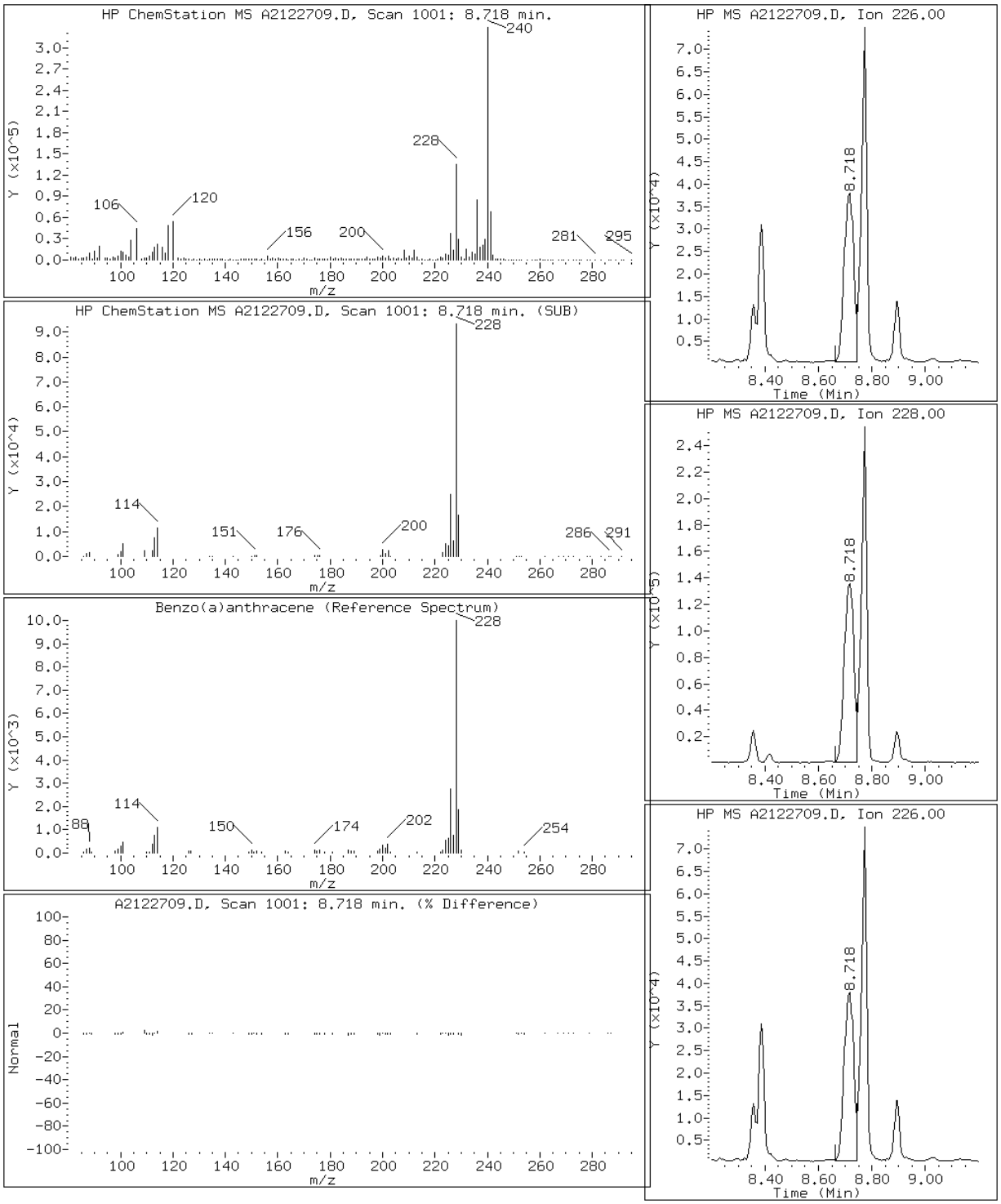
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



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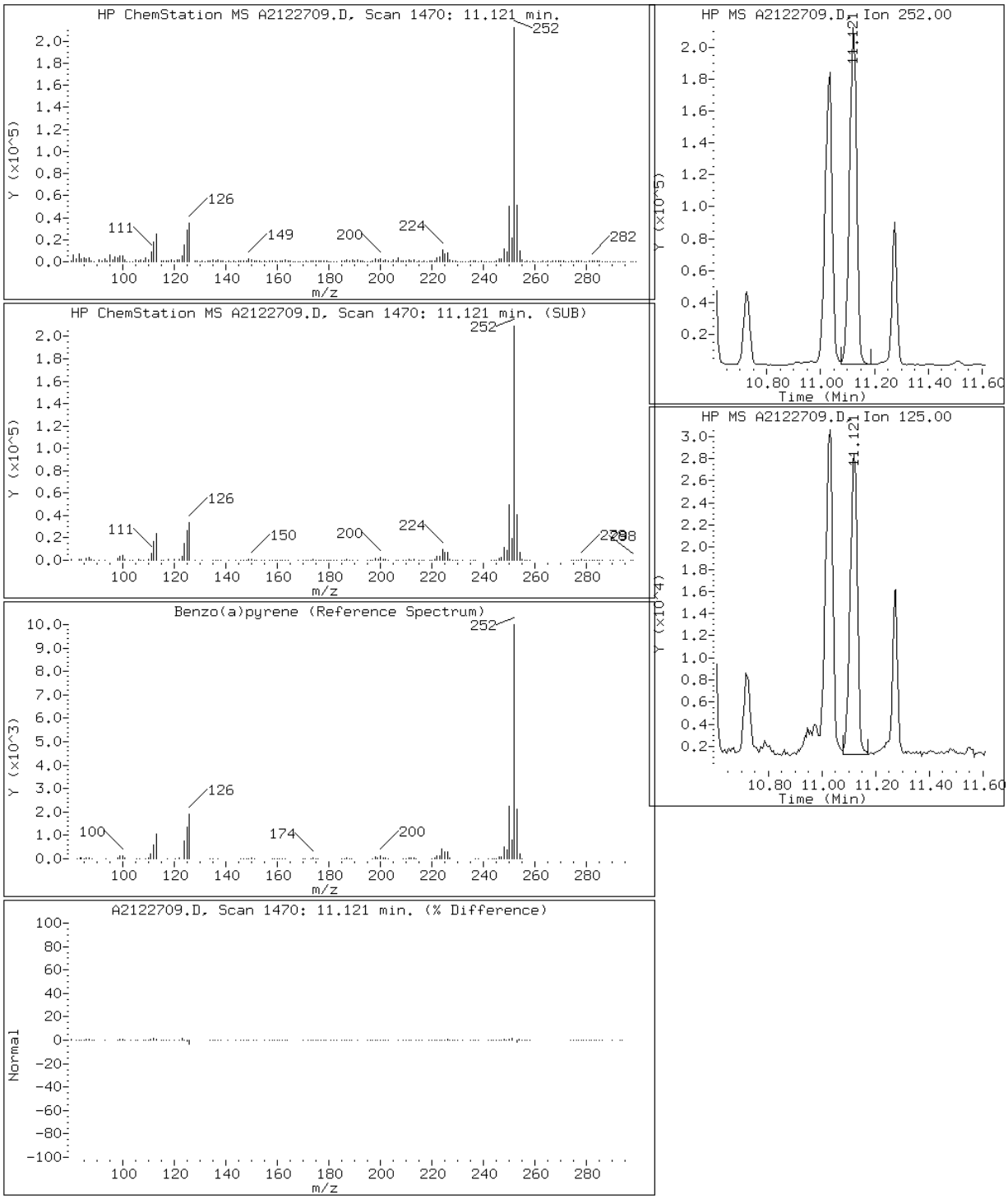
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



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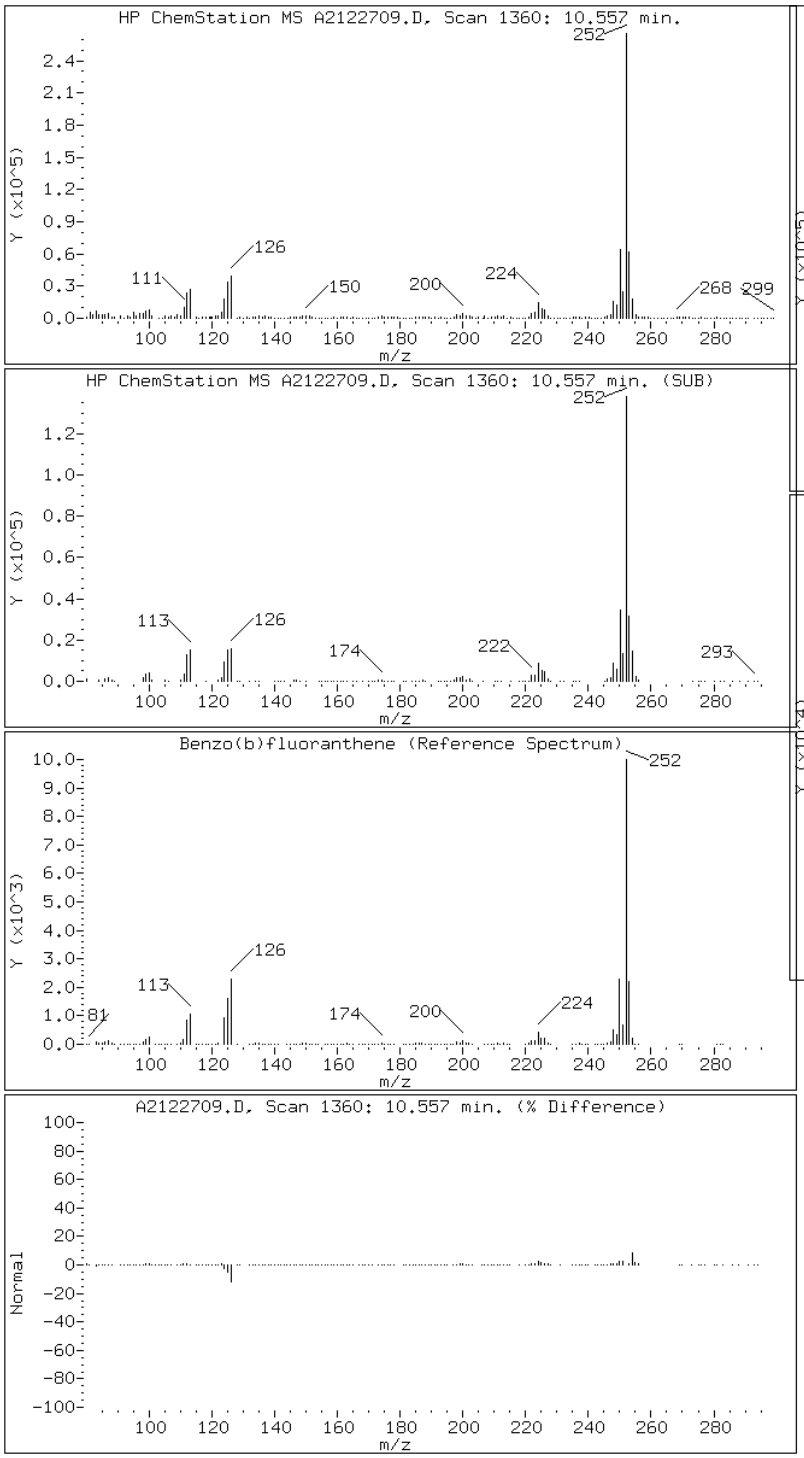
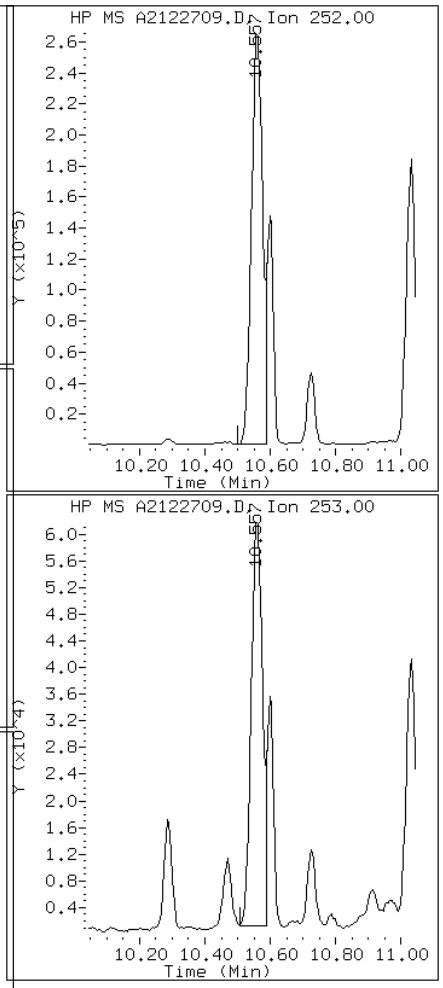
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





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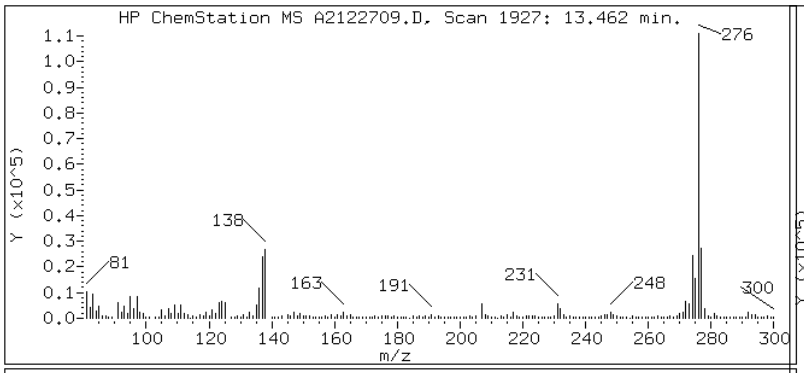
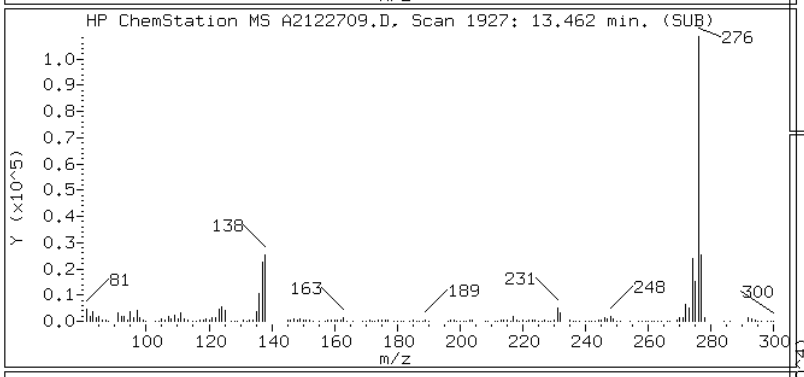
Date: 27-DEC-2012 10:07

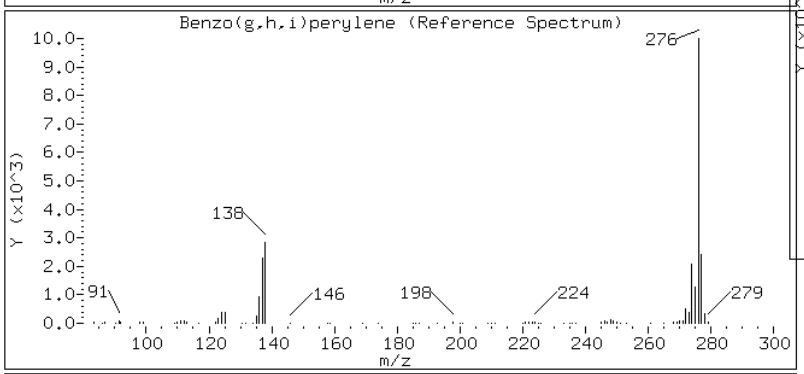
Client ID: CV0511M-CS Instrument: TSMA5973.i

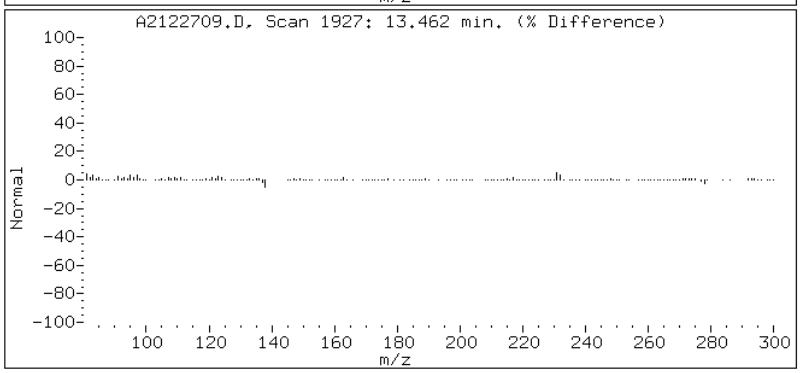
Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

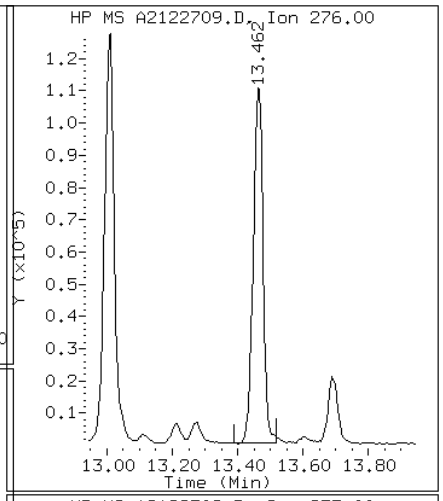
24 Benzo(g,h,i)perylene

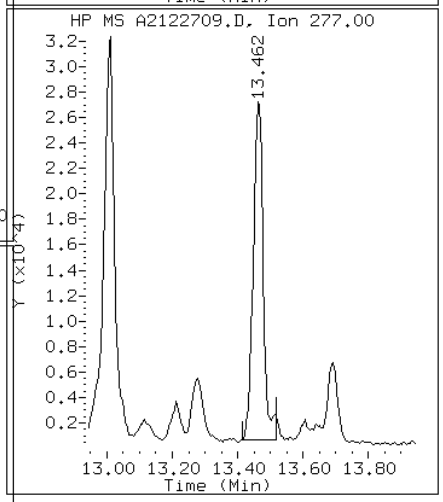












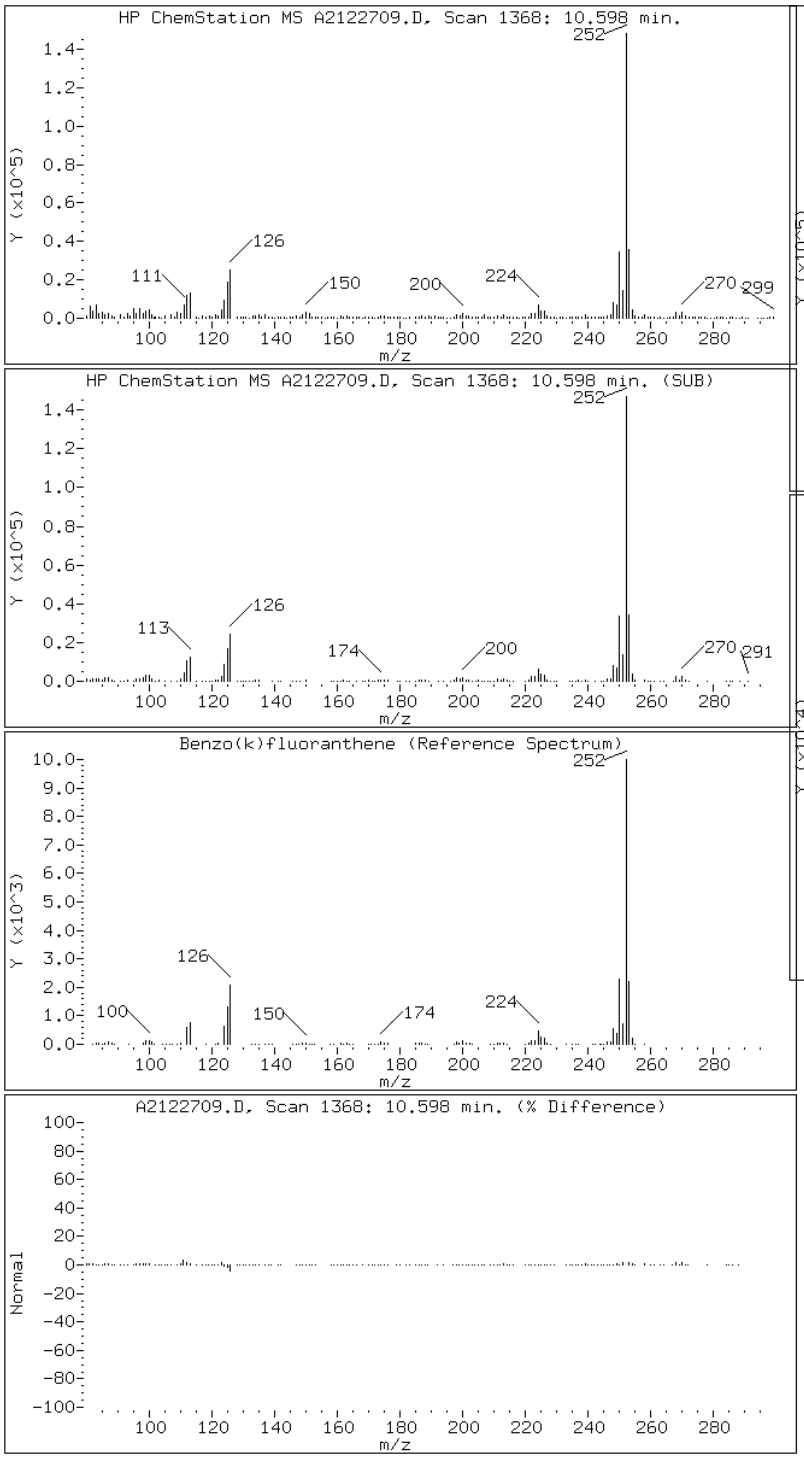
Data File: A2122709.D

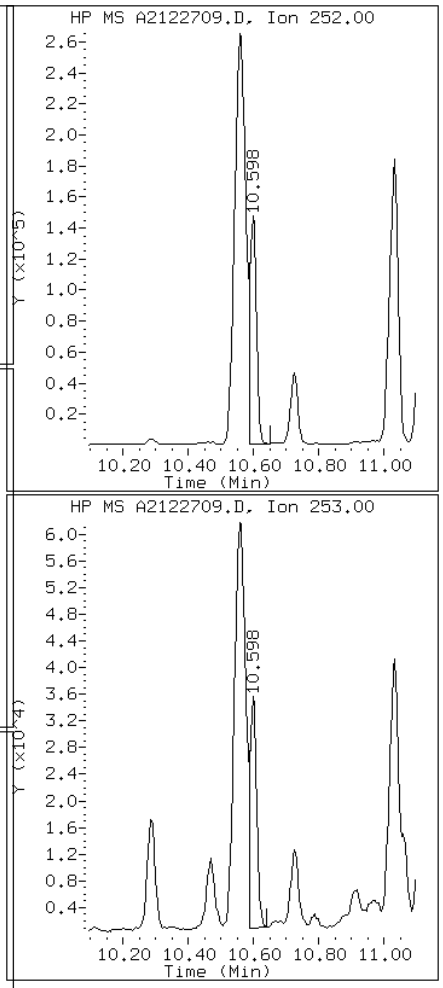
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene





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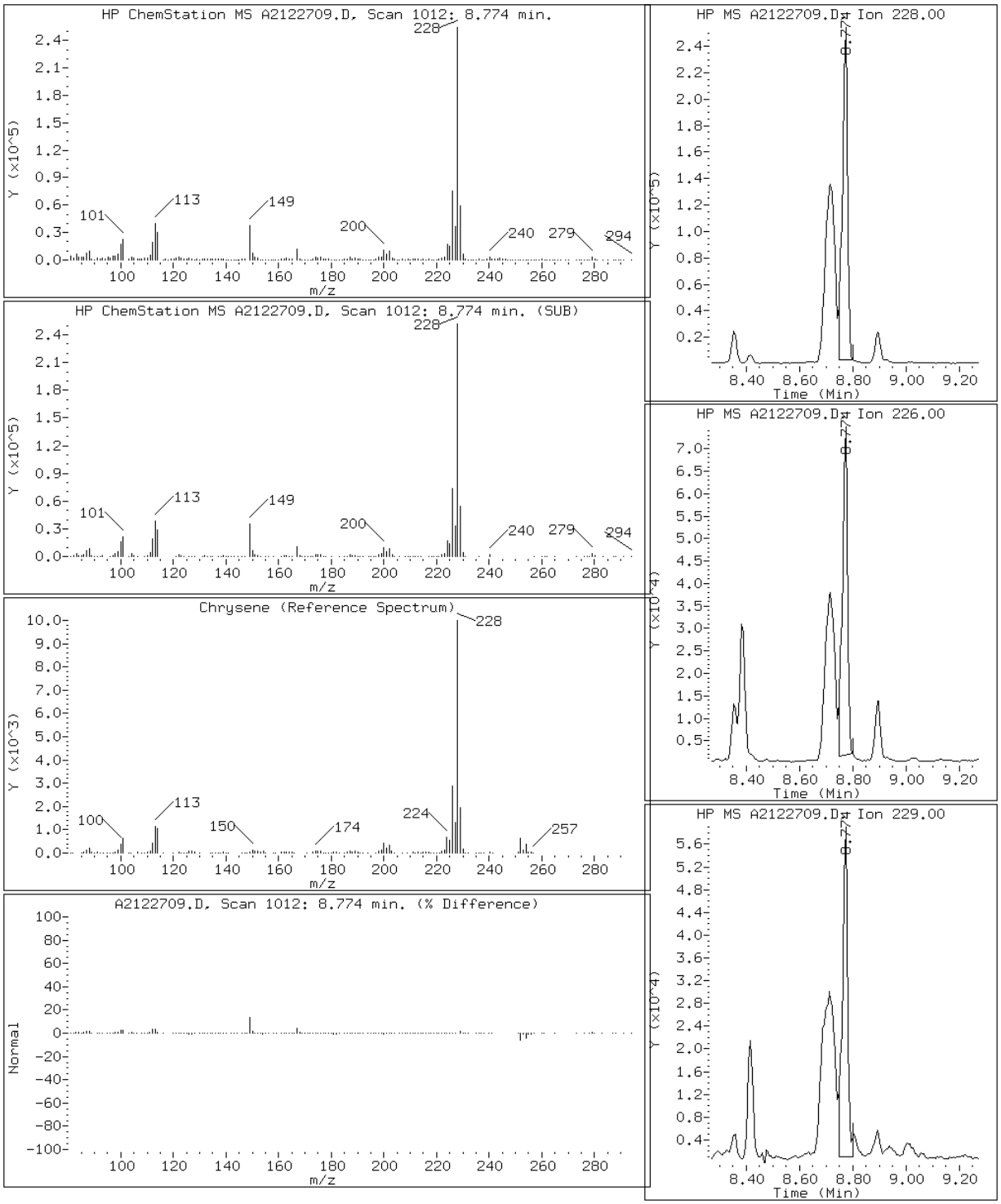
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

17 Chrysene



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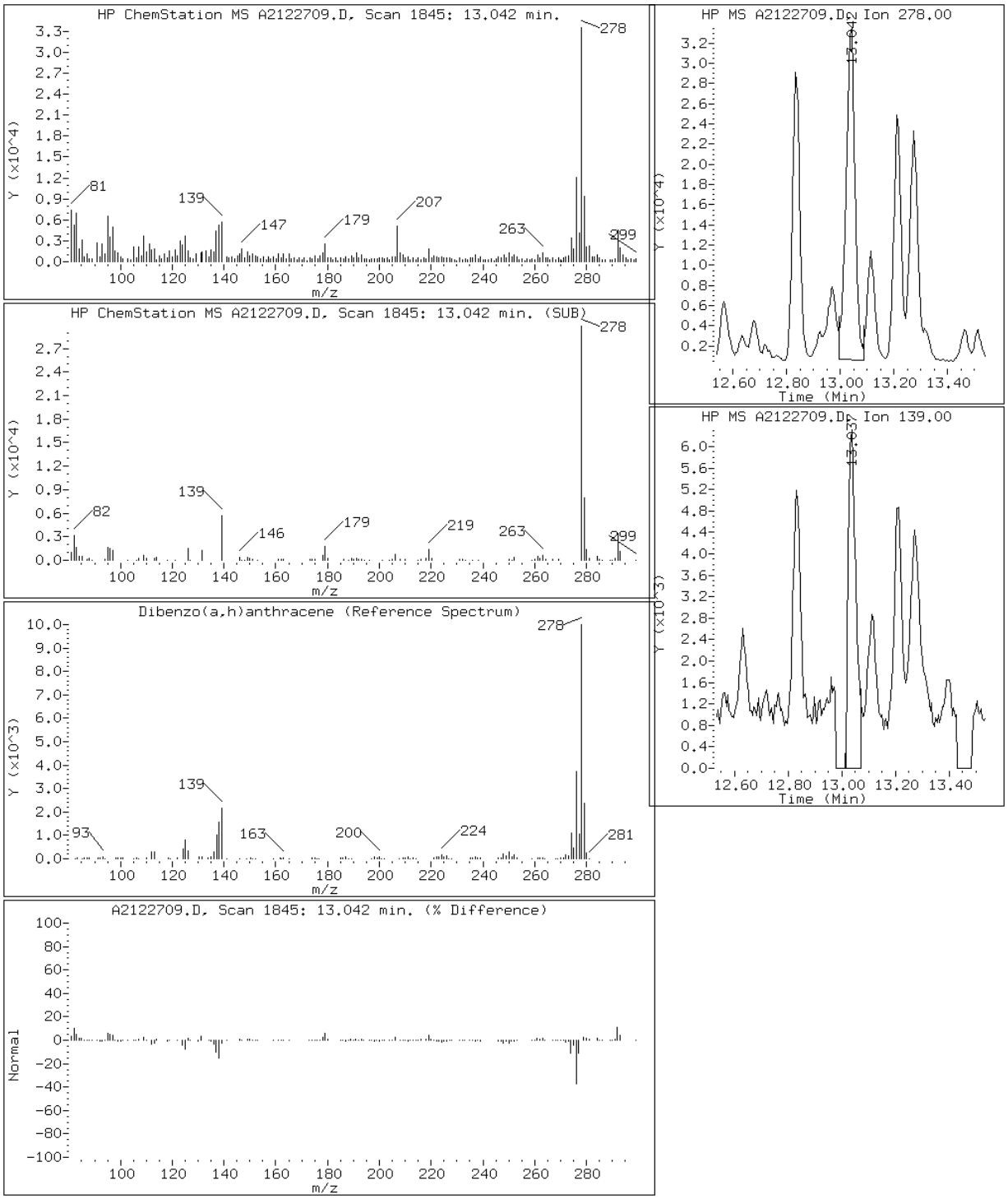
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene



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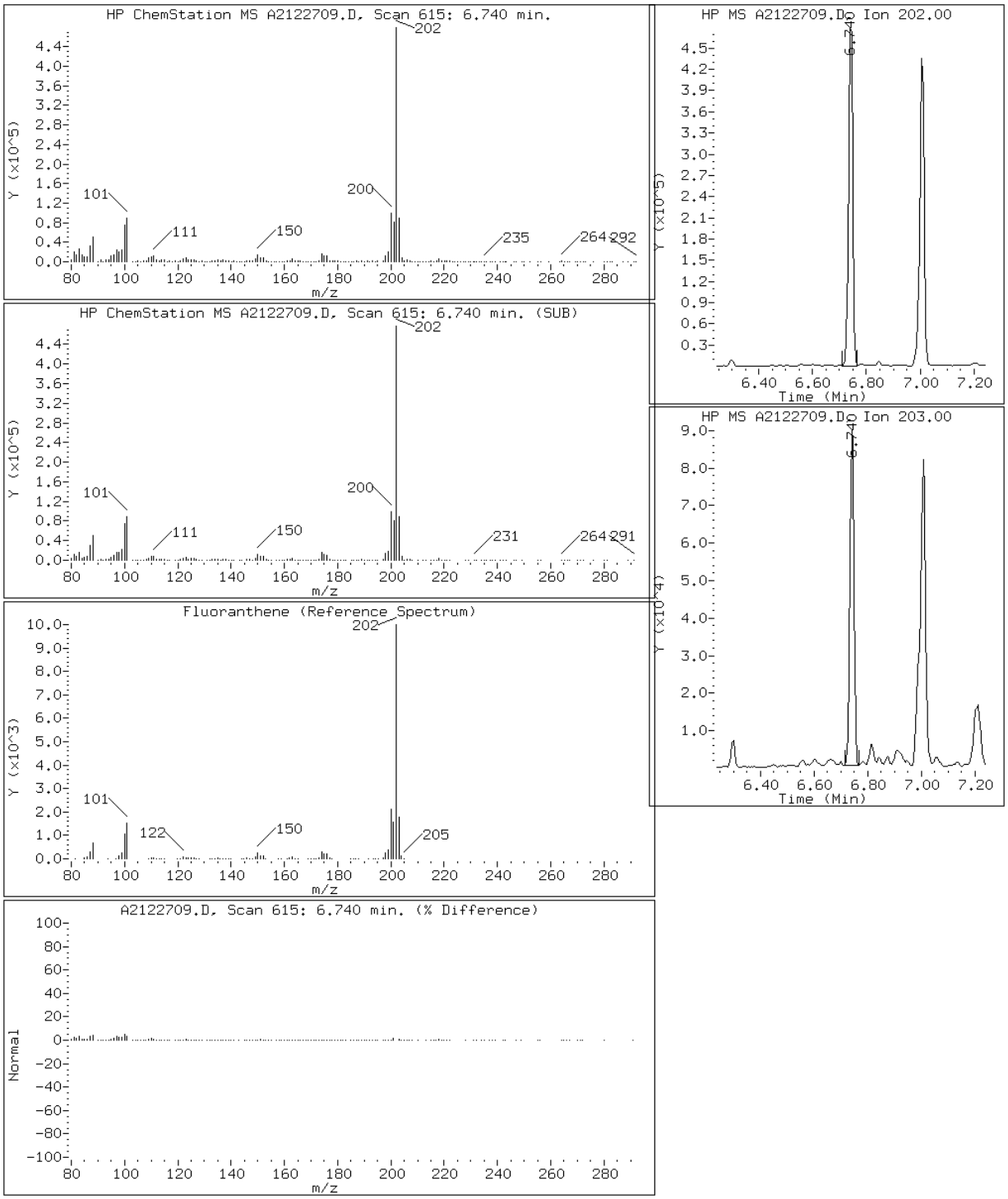
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



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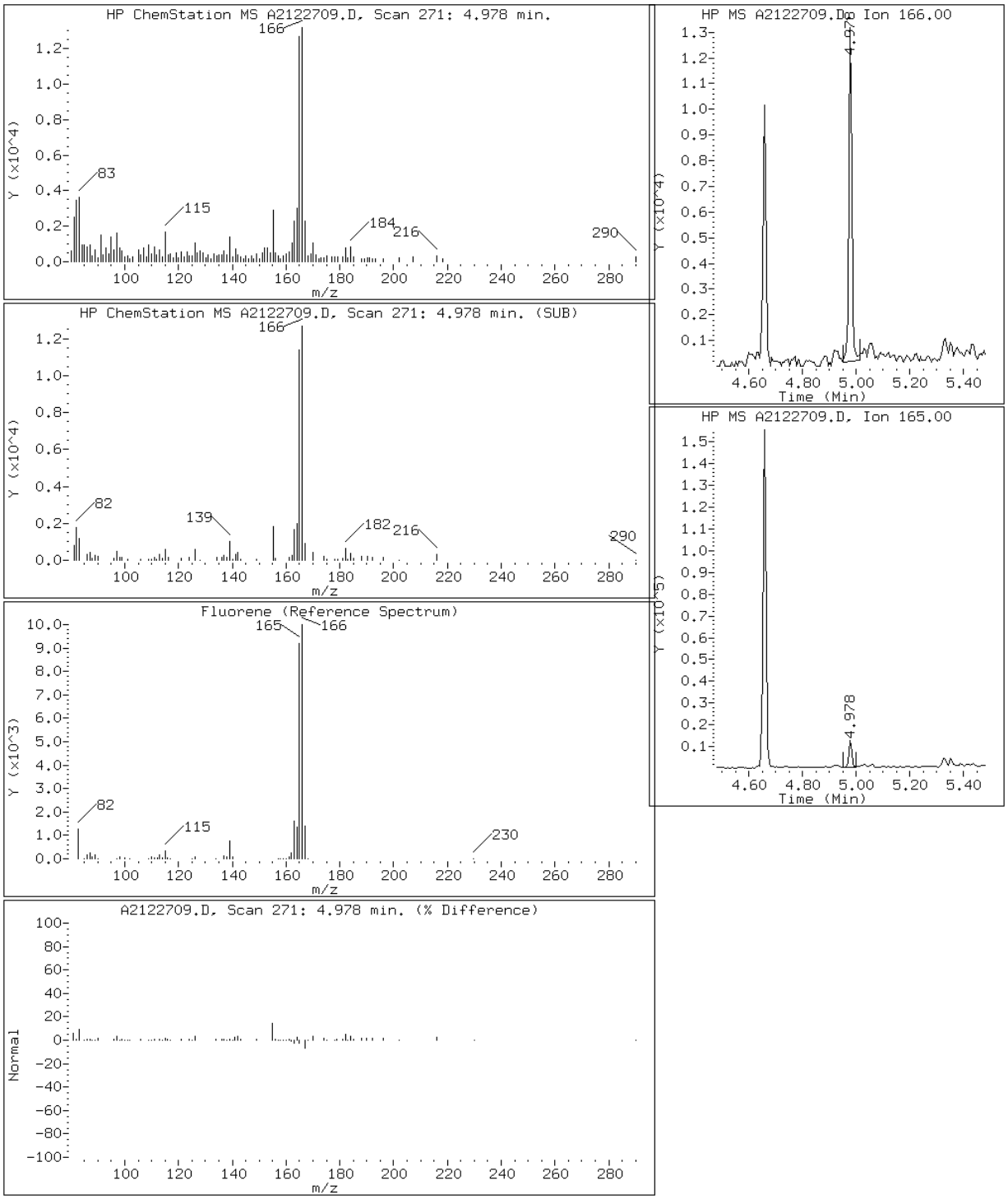
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

8 Fluorene



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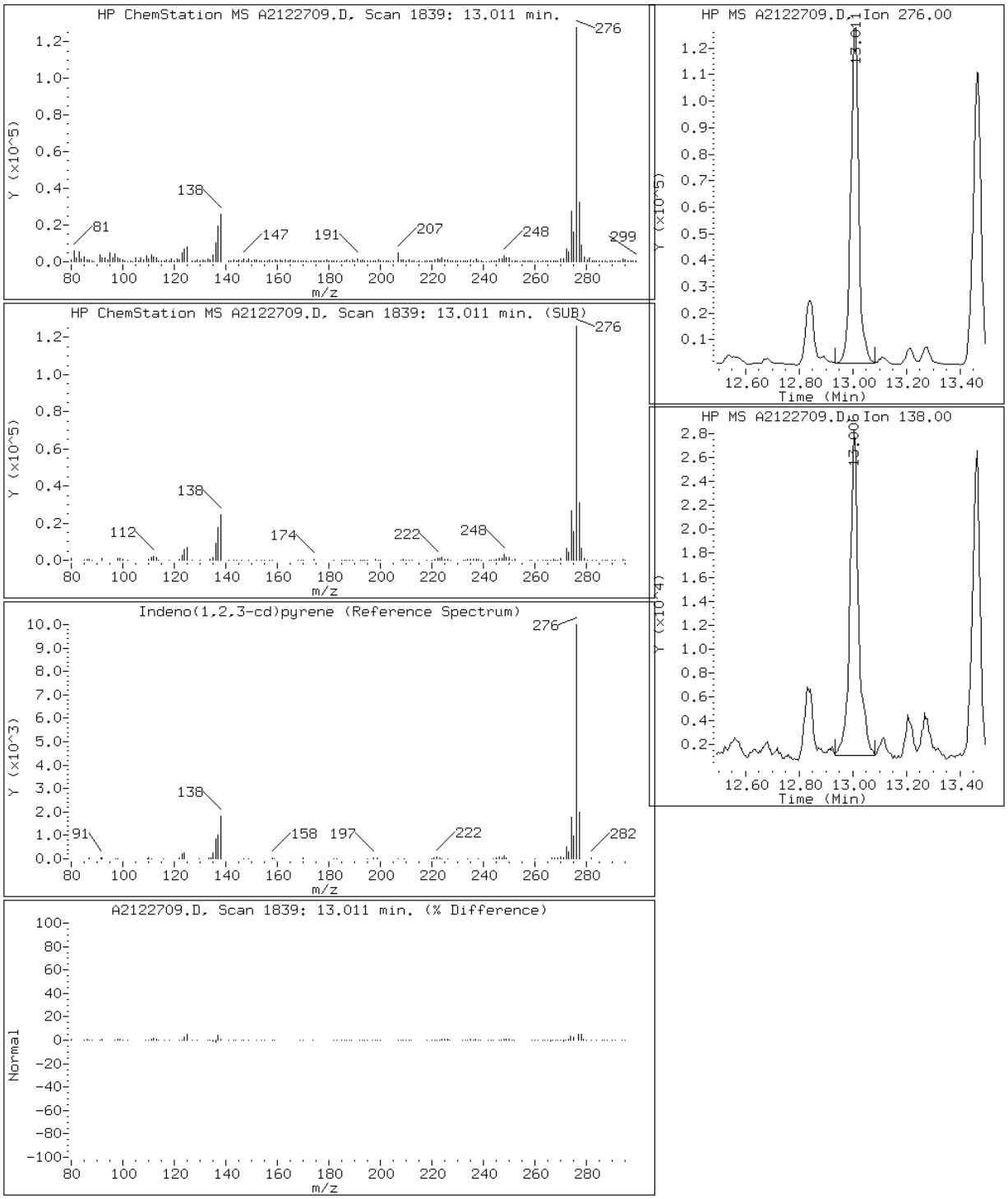
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

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



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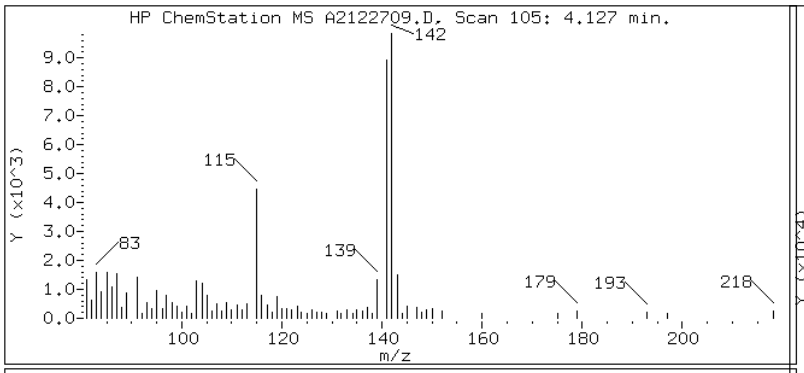
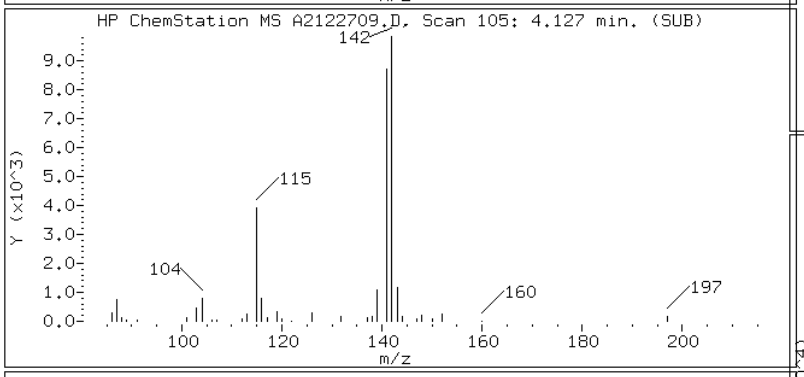
Date: 27-DEC-2012 10:07

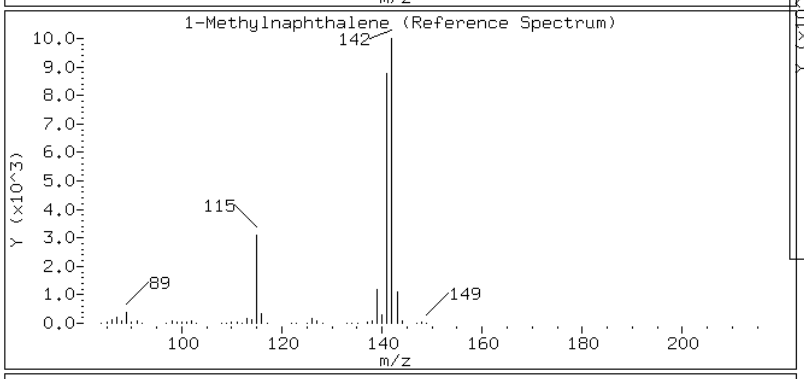
Client ID: CV0511M-CS Instrument: TSMA5973.i

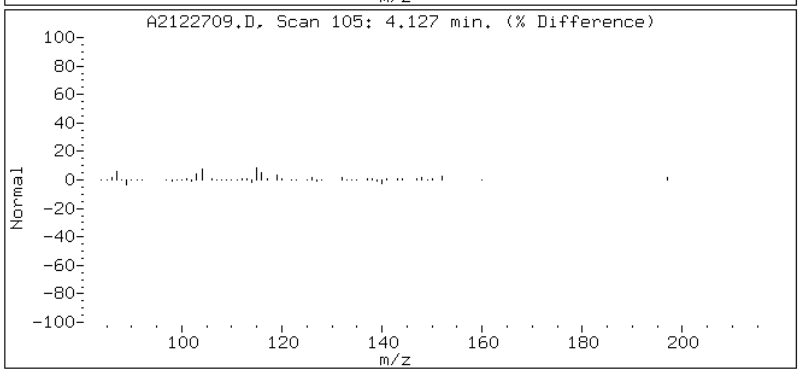
Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

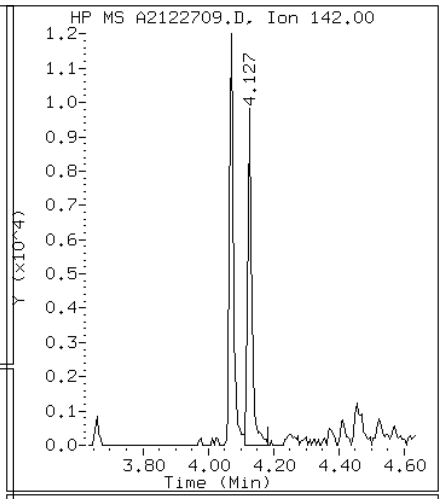
4 1-Methylnaphthalene

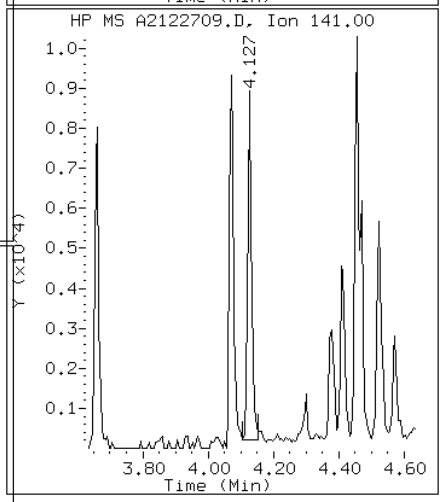












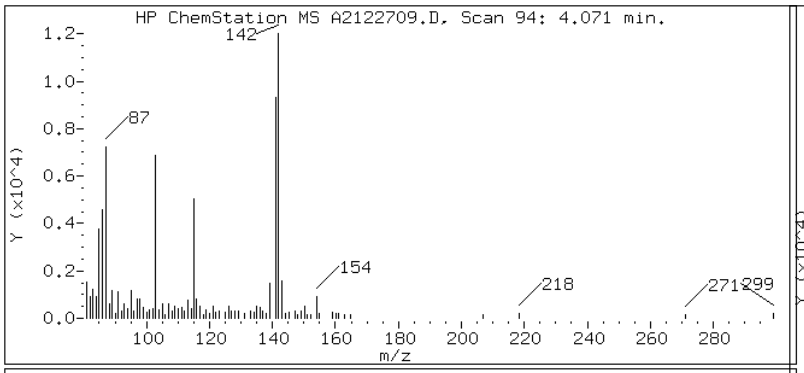
Data File: A2122709.D

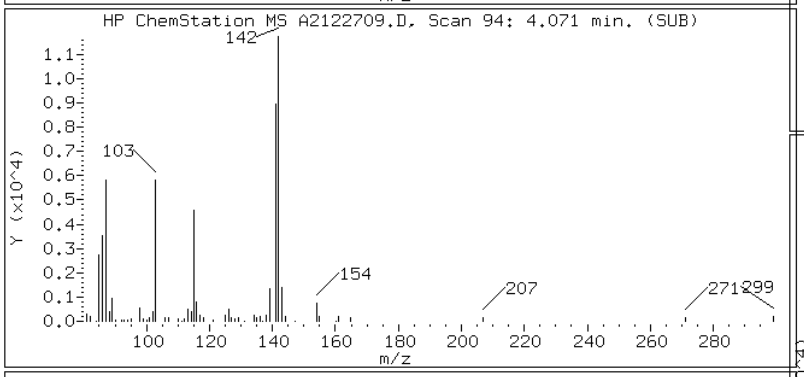
Date: 27-DEC-2012 10:07

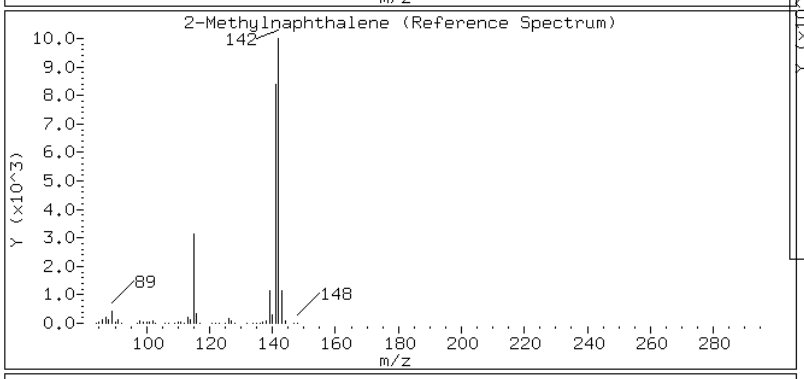
Client ID: CV0511M-CS Instrument: TSMA5973.i

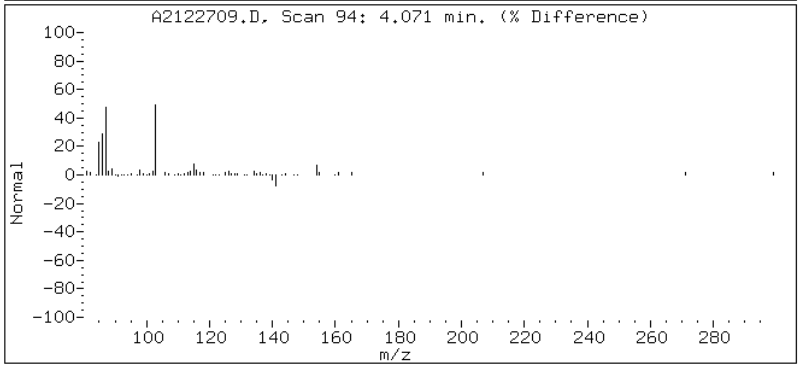
Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

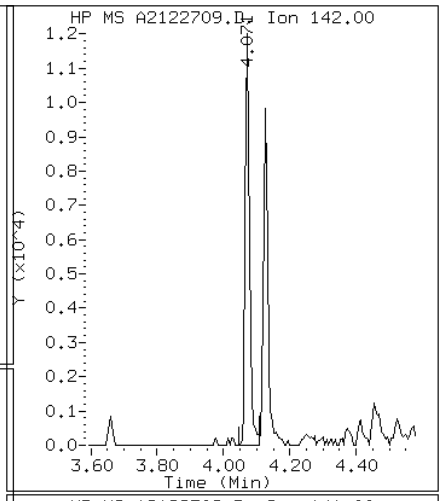
3 2-Methylnaphthalene

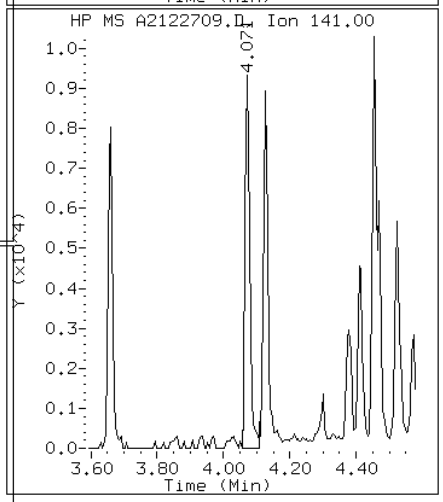












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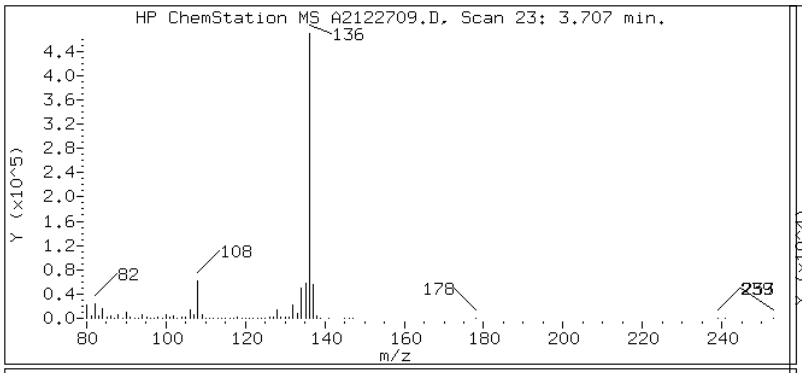
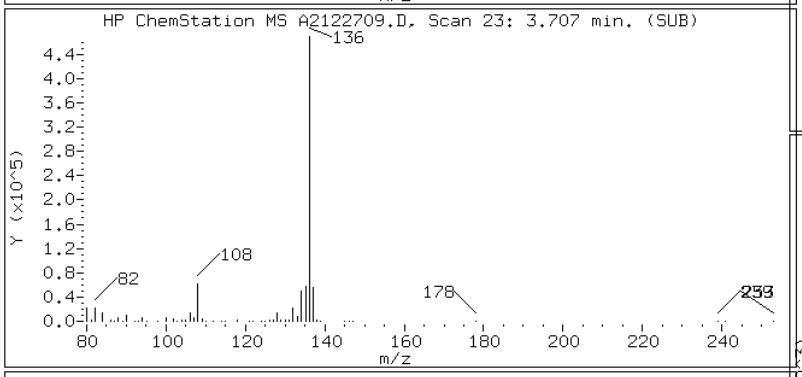
Date: 27-DEC-2012 10:07

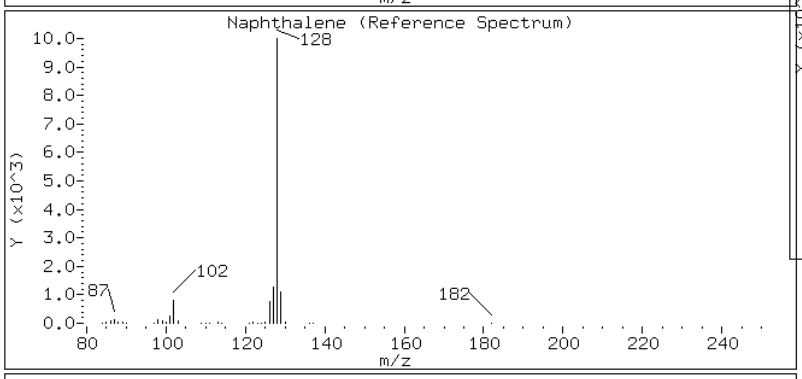
Client ID: CV0511M-CS Instrument: TSMA5973.i

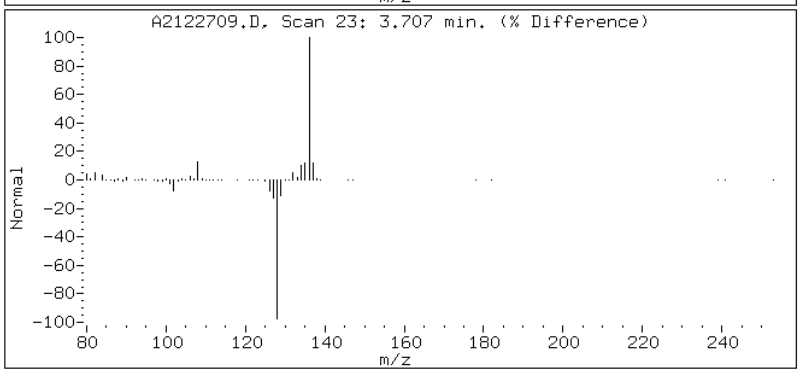
Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

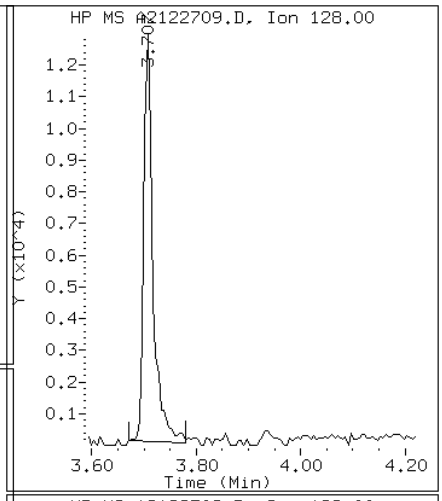
2 Naphthalene

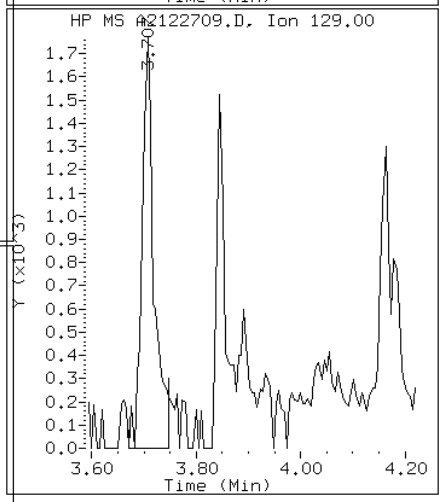












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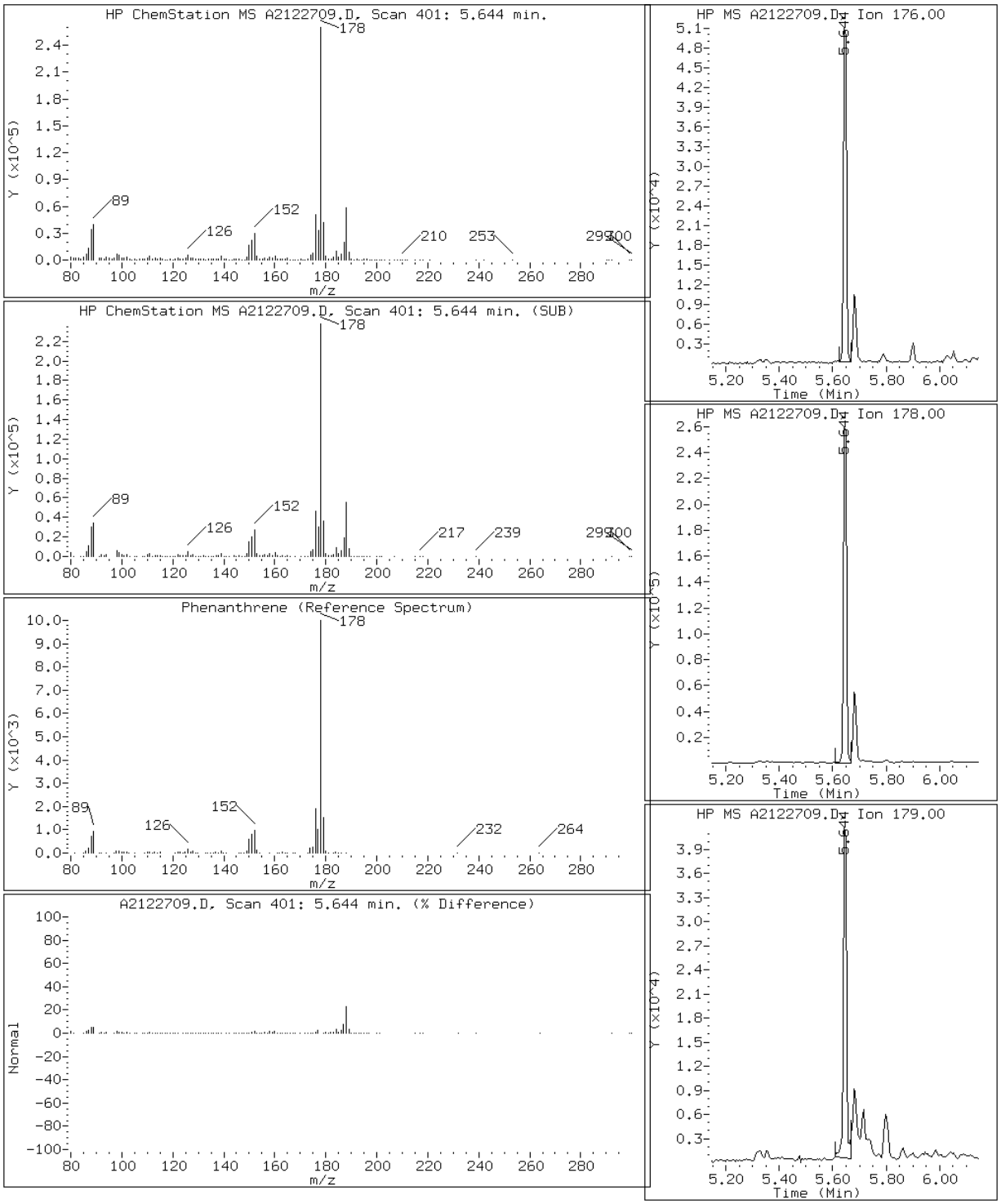
Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



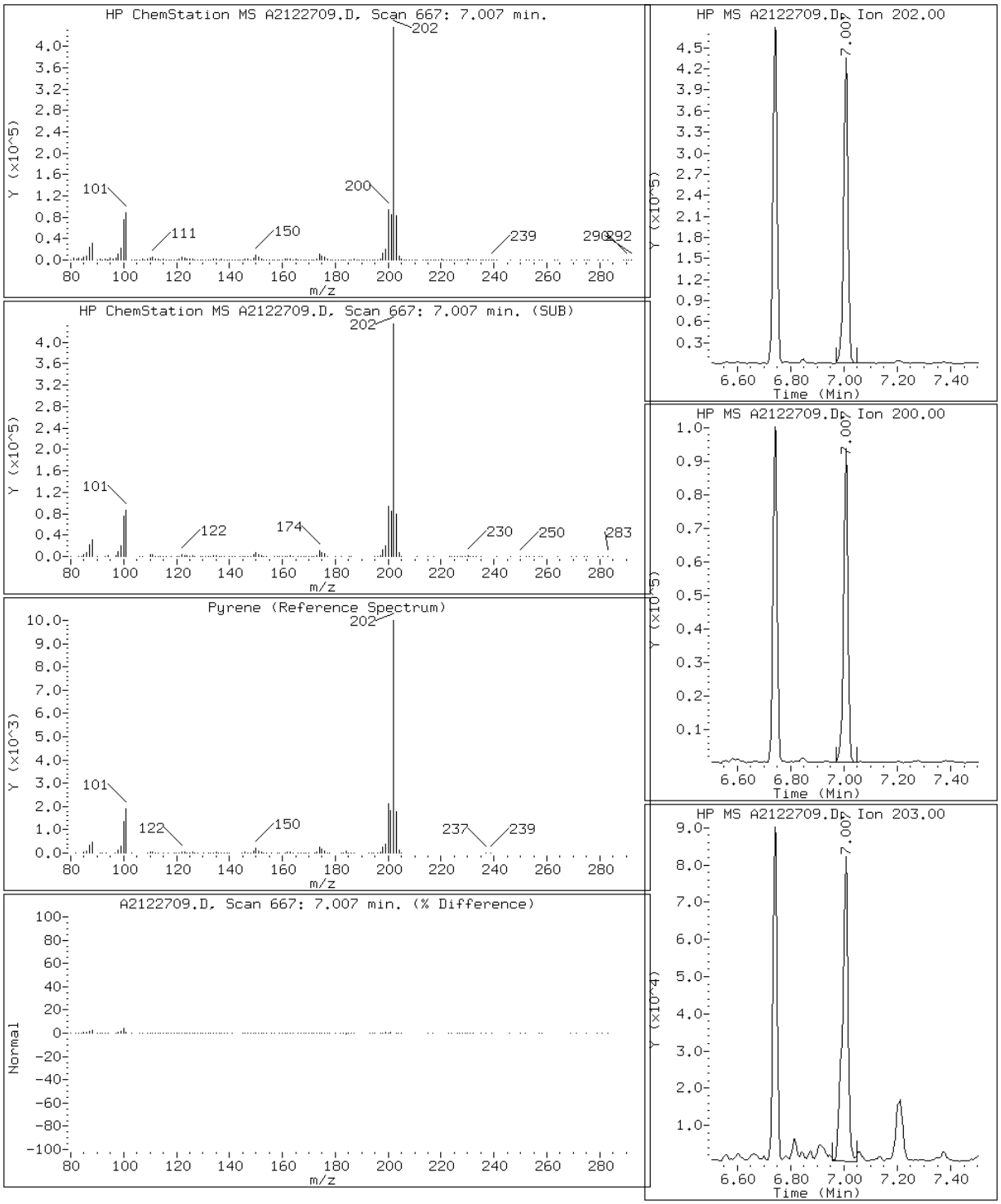
Data File: A2122709.D

Date: 27-DEC-2012 10:07

Client ID: CV0511M-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-46-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511N-CS | Lab Sample ID: 680-85785-47

Matrix: Solid | Lab File ID: A2122725.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:32

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.34(g) | Date Analyzed: 12/27/2012 18:06

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

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

% Moisture: 30.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	37		19	1.7
208-96-8	Acenaphthylene	14	J	19	1.5
120-12-7	Anthracene	100		19	1.9
56-55-3	Benzo[a]anthracene	570	B	19	1.8
50-32-8	Benzo[a]pyrene	810	B	19	1.9
205-99-2	Benzo[b]fluoranthene	1400	B	19	2.7
191-24-2	Benzo[g,h,i]perylene	250	B	19	3.1
207-08-9	Benzo[k]fluoranthene	440	B	19	1.8
218-01-9	Chrysene	630	B	19	2.1
53-70-3	Dibenz(a,h)anthracene	96	B	19	1.9
206-44-0	Fluoranthene	900	B	19	1.7
86-73-7	Fluorene	36		19	1.5
193-39-5	Indeno[1,2,3-cd]pyrene	320	B	19	3.1
90-12-0	1-Methylnaphthalene	26		19	1.5
91-57-6	2-Methylnaphthalene	32		19	1.5
91-20-3	Naphthalene	30		19	1.5
85-01-8	Phenanthrene	450		19	1.3
129-00-0	Pyrene	830	B	19	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	66		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122725.D
Lab Smp Id: 680-85785-A-47-A Client Smp ID: CV0511N-CS
Inj Date : 27-DEC-2012 18:06
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-47-A~98123~2~8270D/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: 20
Dil Factor: 2.00000
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	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.340	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	3.705	(1.000)	1378708	40.0000		
2 Naphthalene	128	3.715	3.720	(1.004)	12273	0.31605	21	
3 2-Methylnaphthalene	142	4.074	4.079	(1.101)	8257	0.33645	22	
4 1-Methylnaphthalene	142	4.130	4.135	(1.116)	6812	0.26822	18	
* 5 Acenaphthene-d10	164	4.658	4.663	(1.000)	723365	40.0000		
6 Acenaphthylene	152	4.581	4.581	(0.984)	5842	0.15070	9.9(a)	
7 Acenaphthene	153	4.678	4.678	(1.004)	9211	0.38618	25	
8 Fluorene	166	4.981	4.980	(1.069)	10231	0.37587	25	
* 9 Phenanthrene-d10	188	5.631	5.631	(1.000)	1139045	40.0000		
10 Phenanthrene	176	5.647	5.646	(1.003)	35060	4.74892	310	
11 Anthracene	178	5.683	5.687	(1.009)	41528	1.06701	70	
$ 12 o-Terphenyl	230	5.903	5.903	(1.048)	31900	1.32518	87	
13 Fluoranthene	202	6.743	6.743	(1.197)	428507	9.47617	620	
* 14 Chrysene-d12	240	8.741	8.736	(1.000)	1354592	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	7.009	7.004	(0.802)	404716	8.76622	580	
16 Benzo(a)anthracene	226	8.710	8.700	(0.996)	73801	6.00619	400	
17 Chrysene	228	8.772	8.772	(1.004)	278119	6.62467	440	
* 18 Perylene-d12	264	11.236	11.241	(1.000)	875707	40.0000		
19 Benzo(b)fluoranthene	252	10.555	10.544	(0.939)	390809	14.4714	950	
20 Benzo(k)fluoranthene	252	10.596	10.596	(0.943)	126627	4.59106	300	
21 Benzo(a)pyrene	252	11.119	11.113	(0.990)	206785	8.47446	560	
22 Indeno(1,2,3-cd)pyrene	276	12.989	12.993	(1.156)	82217	3.34336	220	
23 Dibenzo(a,h)anthracene	278	13.024	13.039	(1.159)	25023	1.00439	66	
24 Benzo(g,h,i)perylene	276	13.439	13.444	(1.196)	64968	2.66675	180	

QC Flag Legend

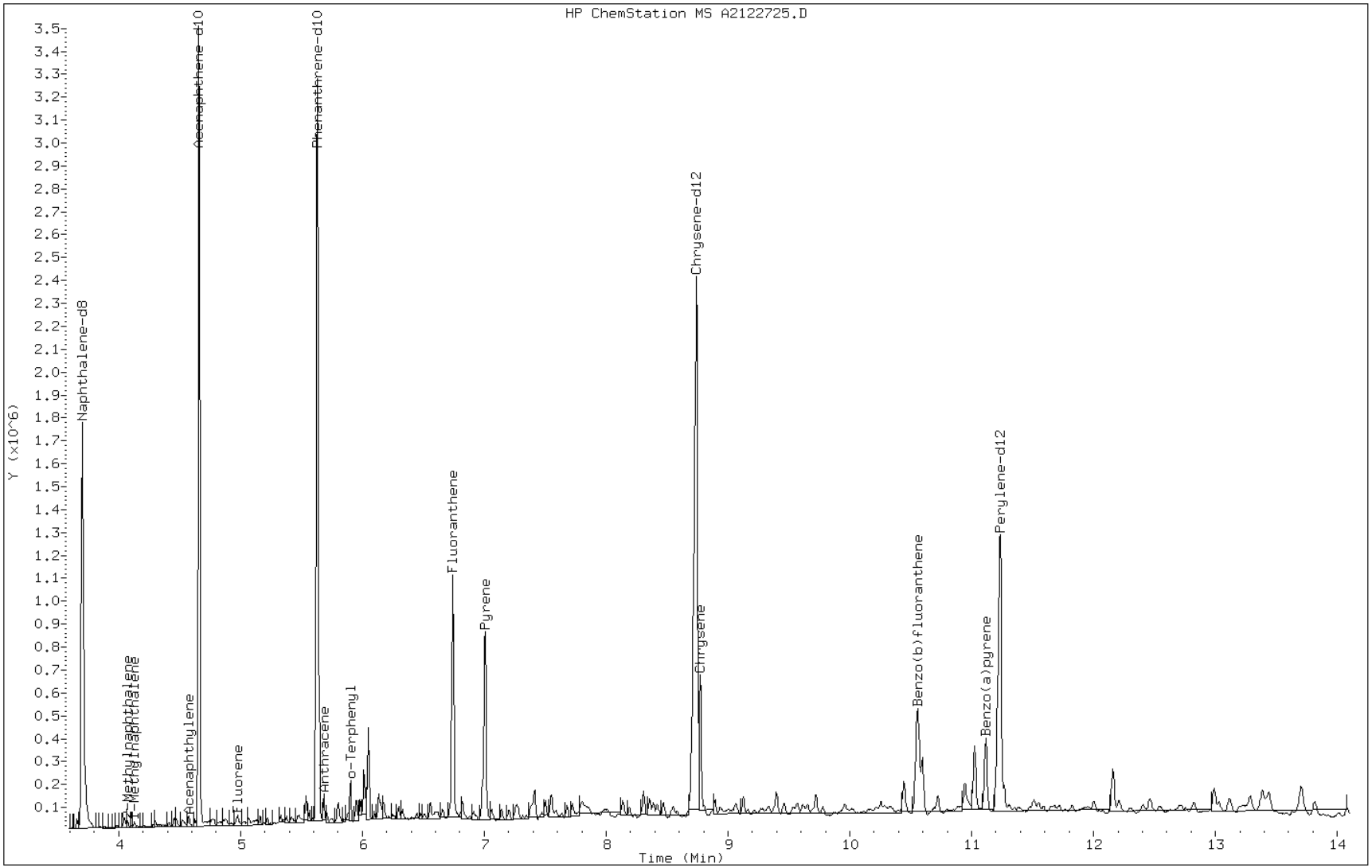
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW



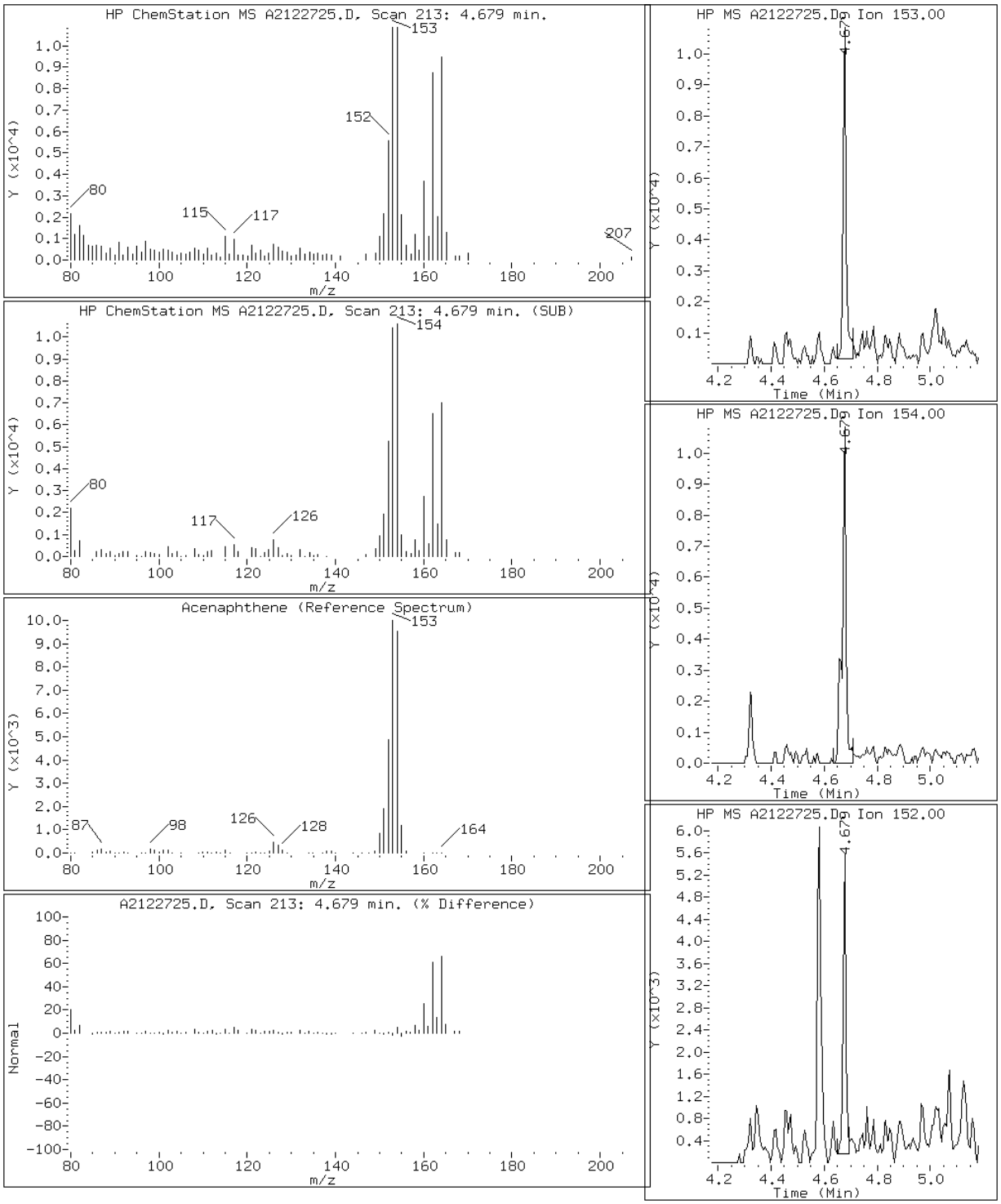
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

7 Acenaphthene



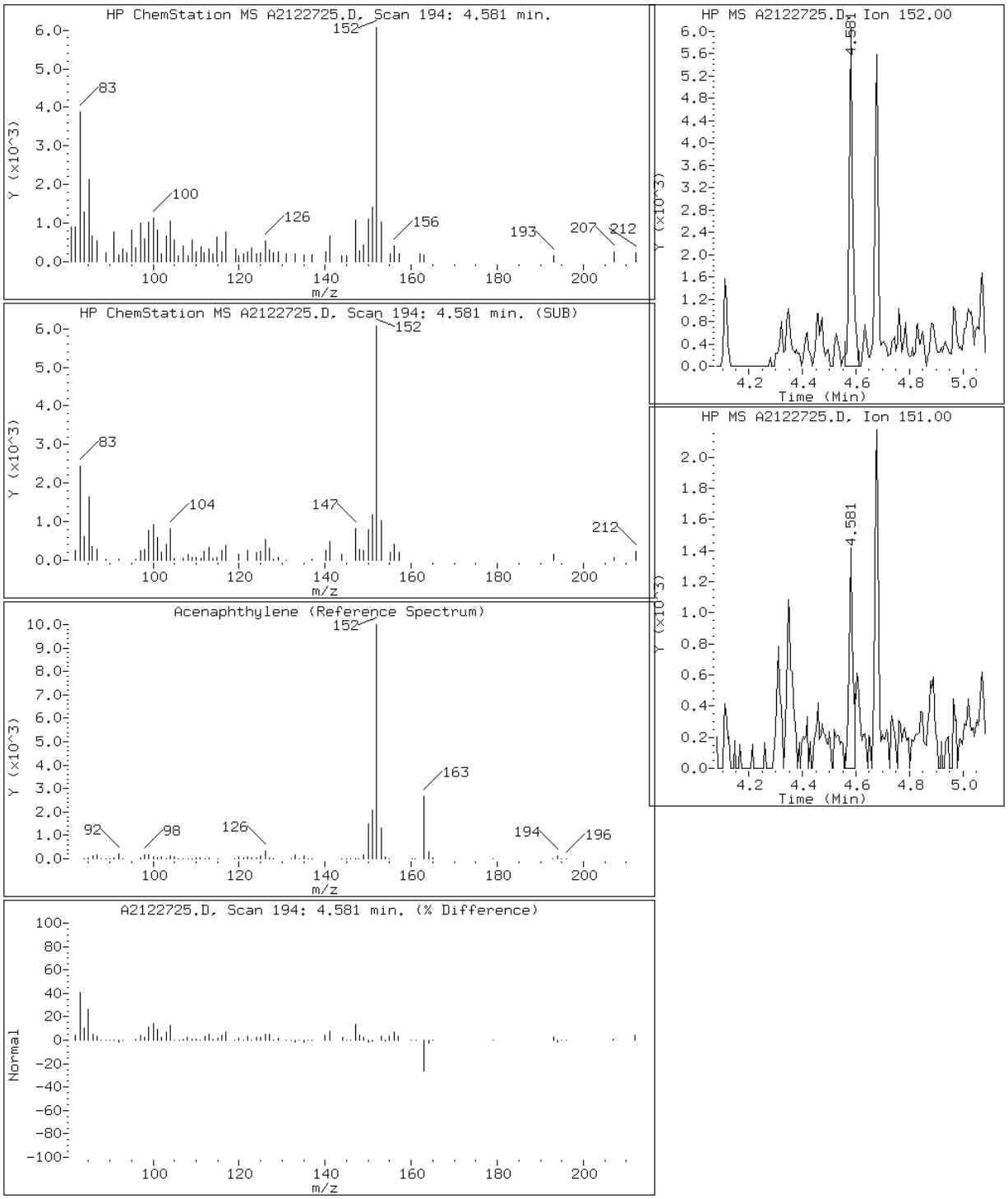
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

6 Acenaphthylene



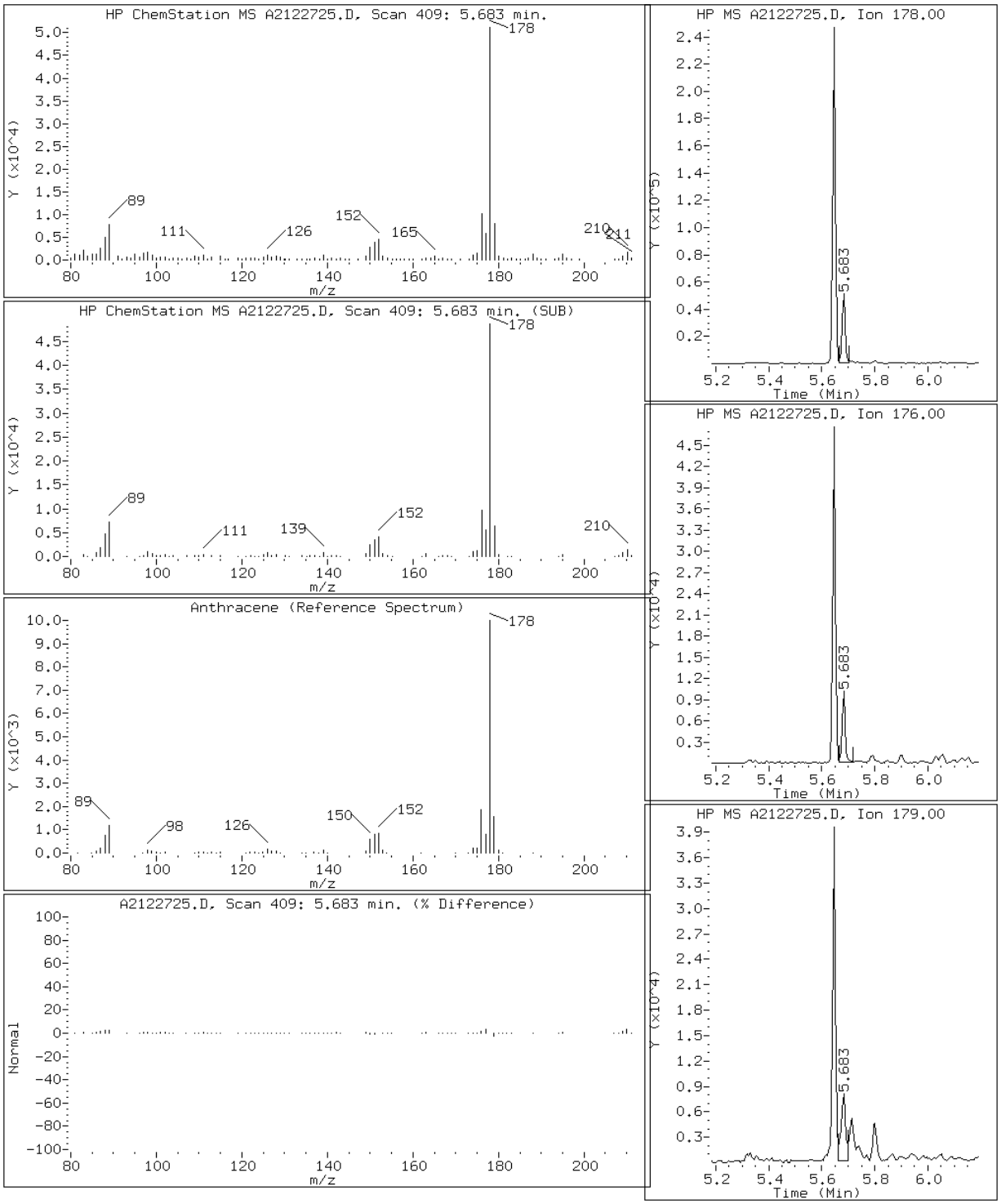
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

11 Anthracene



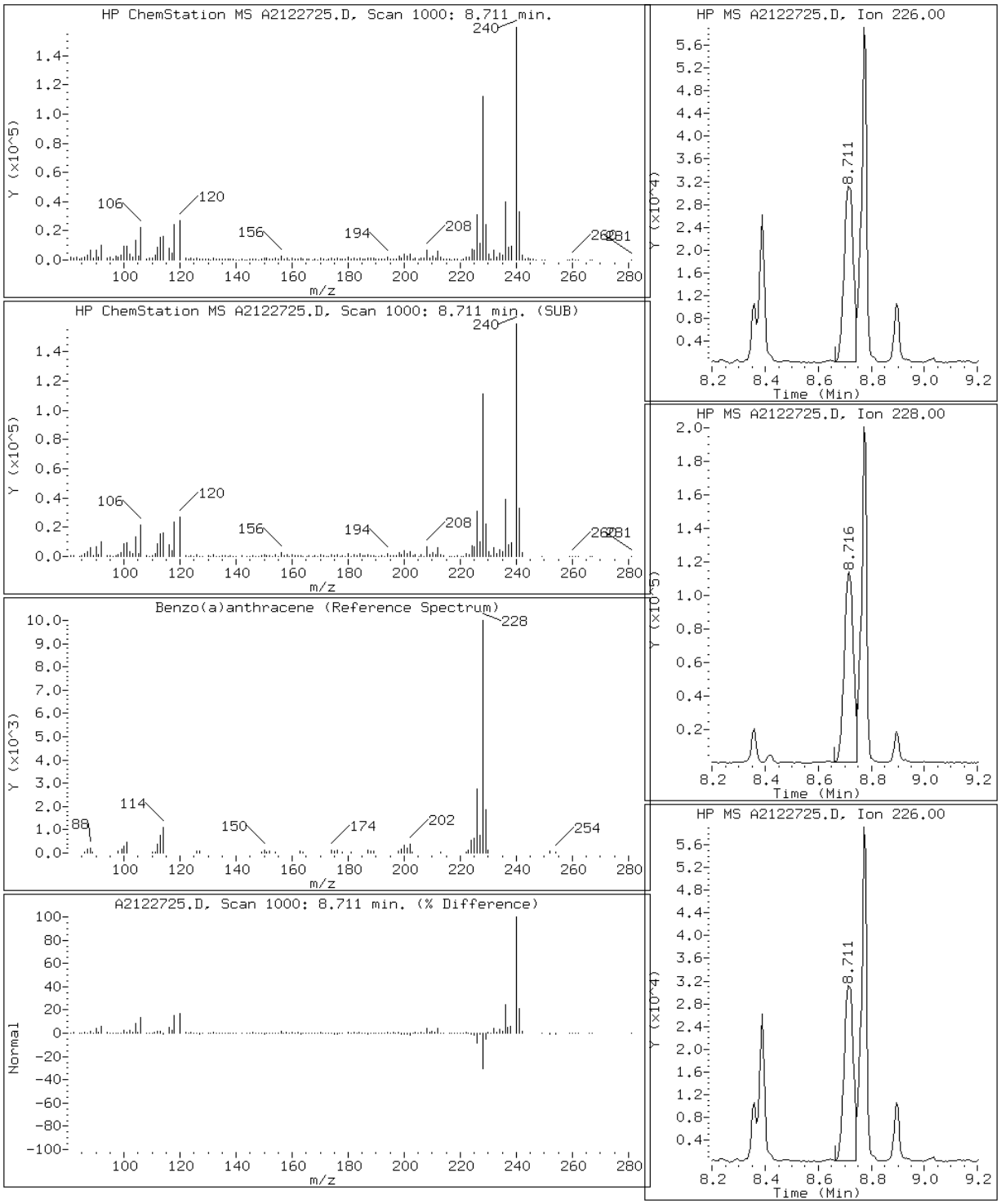
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

16 Benzo(a)anthracene



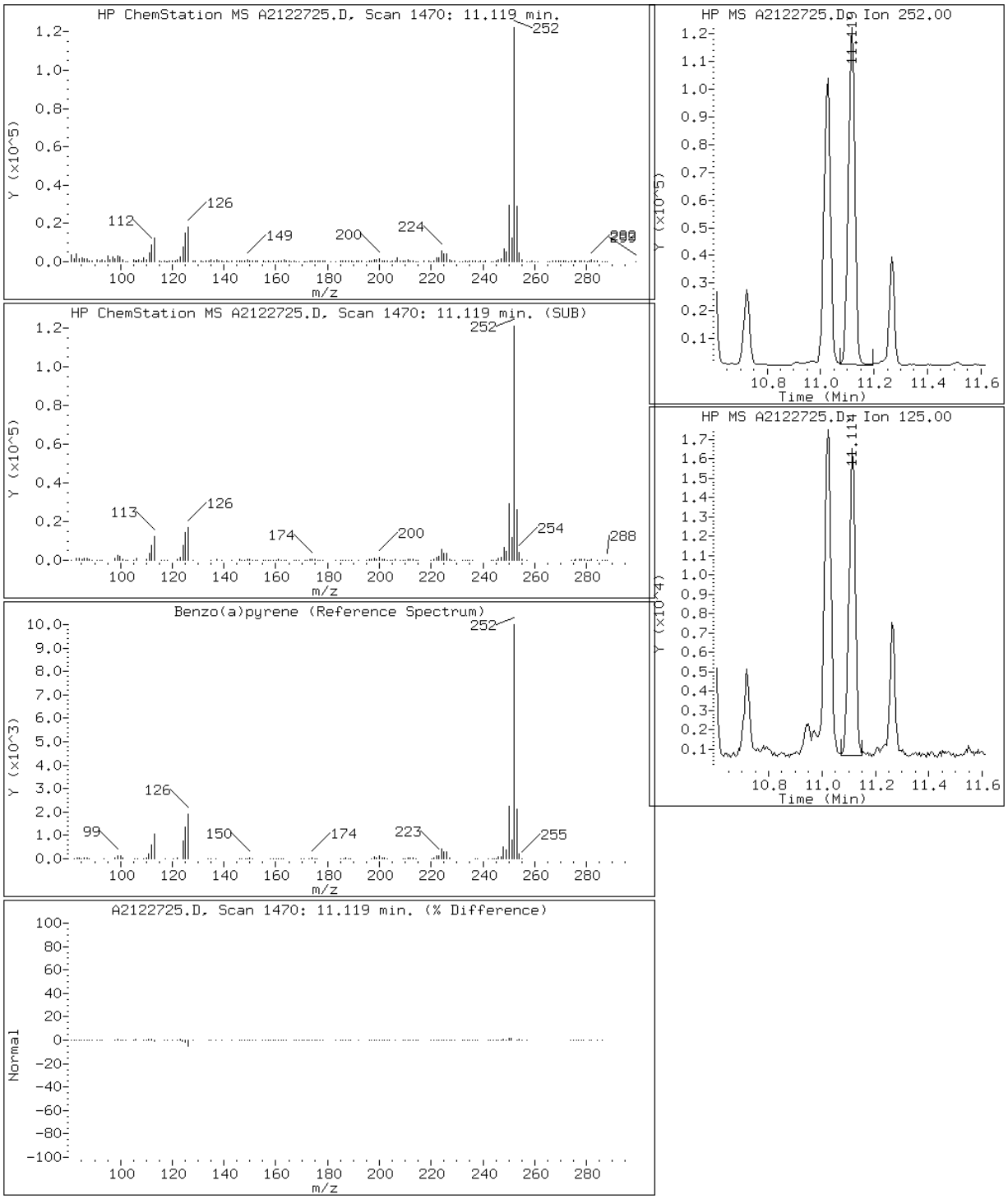
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

21 Benzo(a)pyrene



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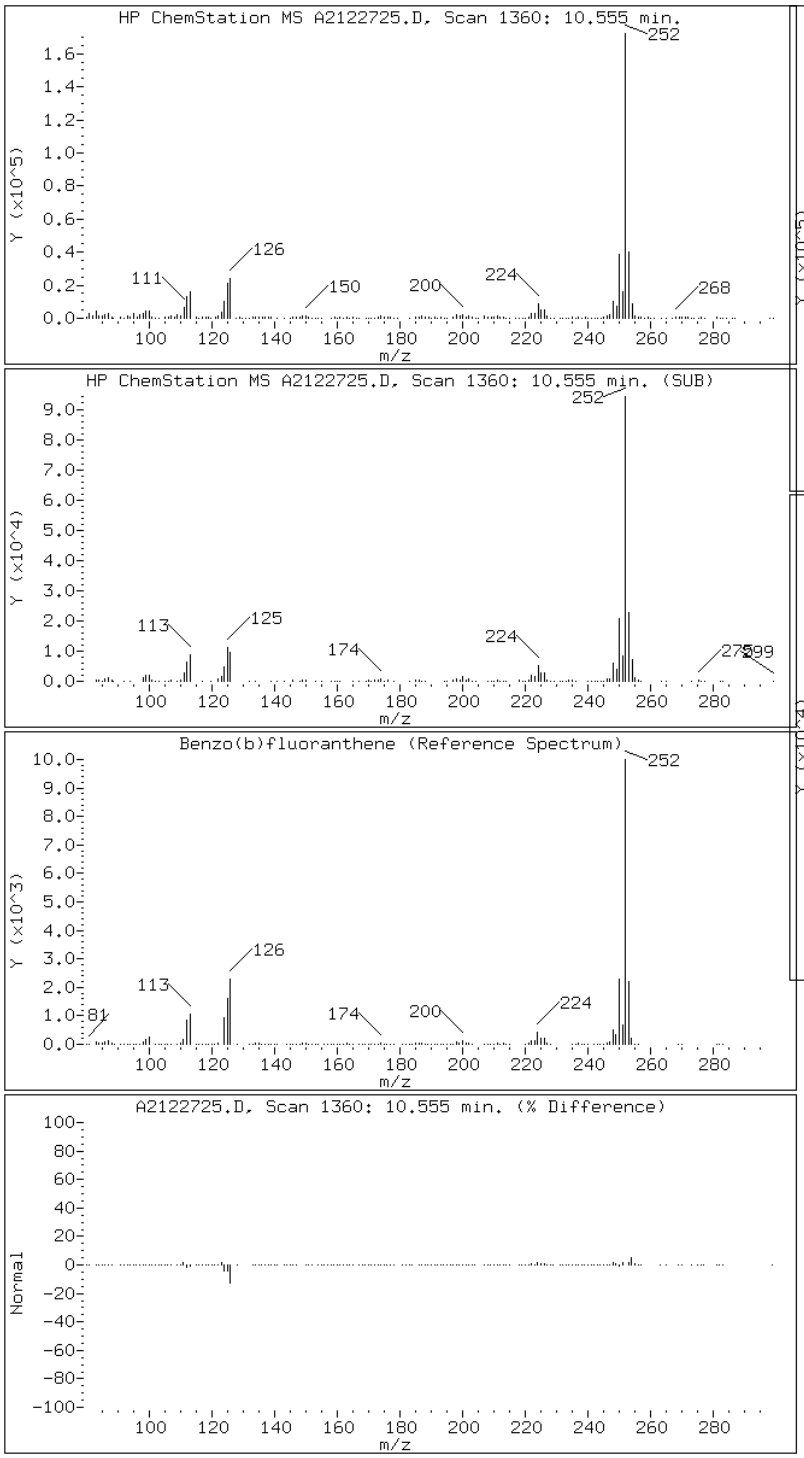
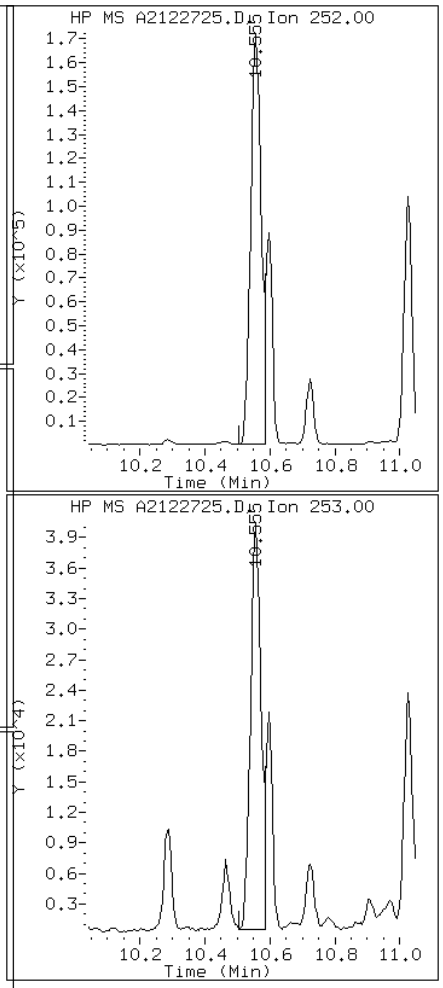
Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





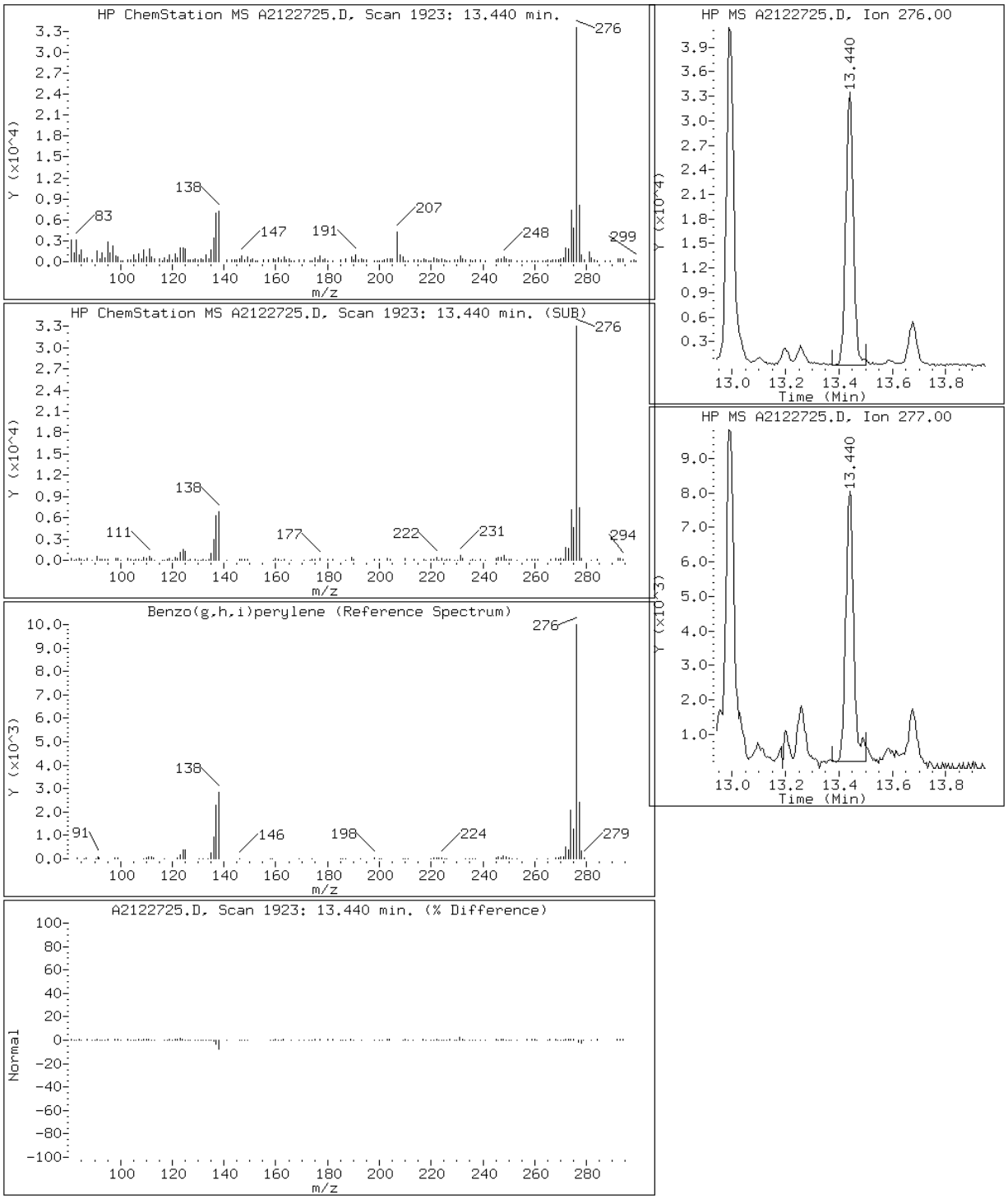
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



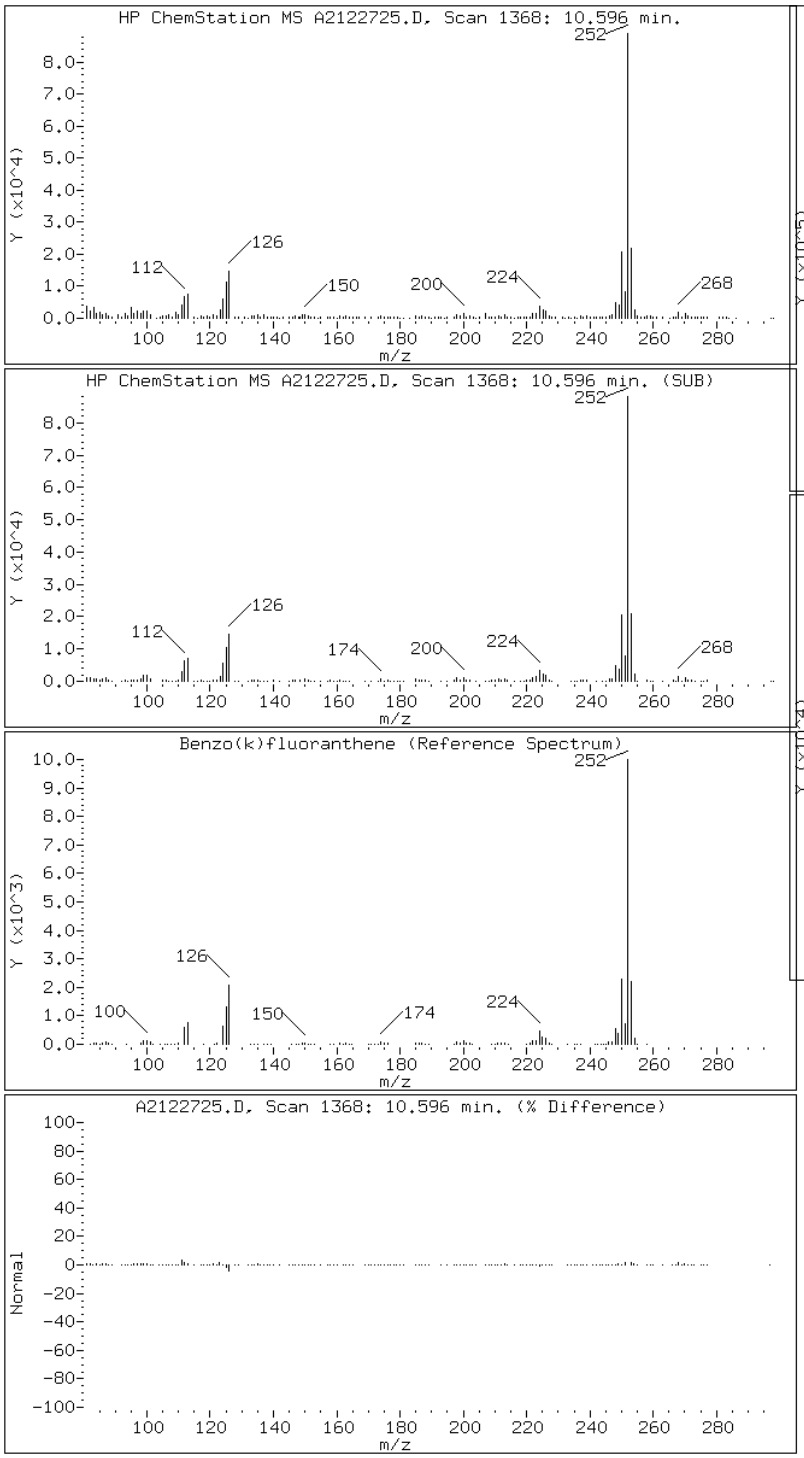
Data File: A2122725.D

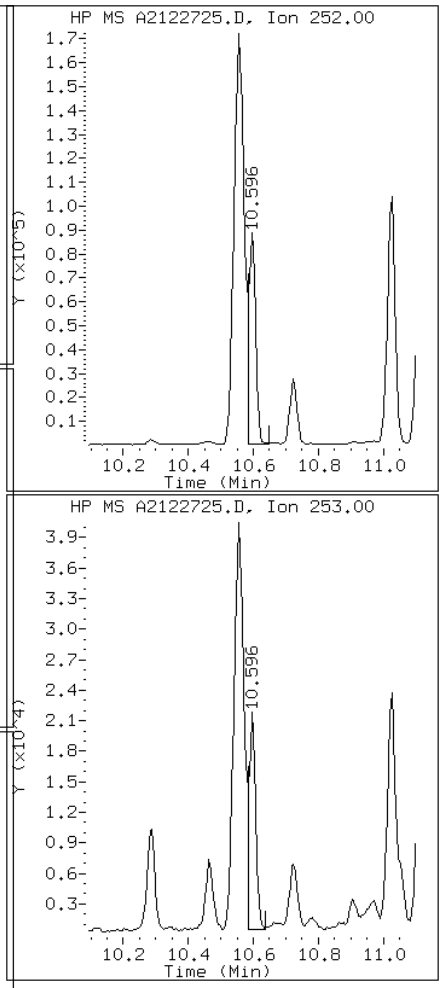
Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

20 Benzo(k)fluoranthene





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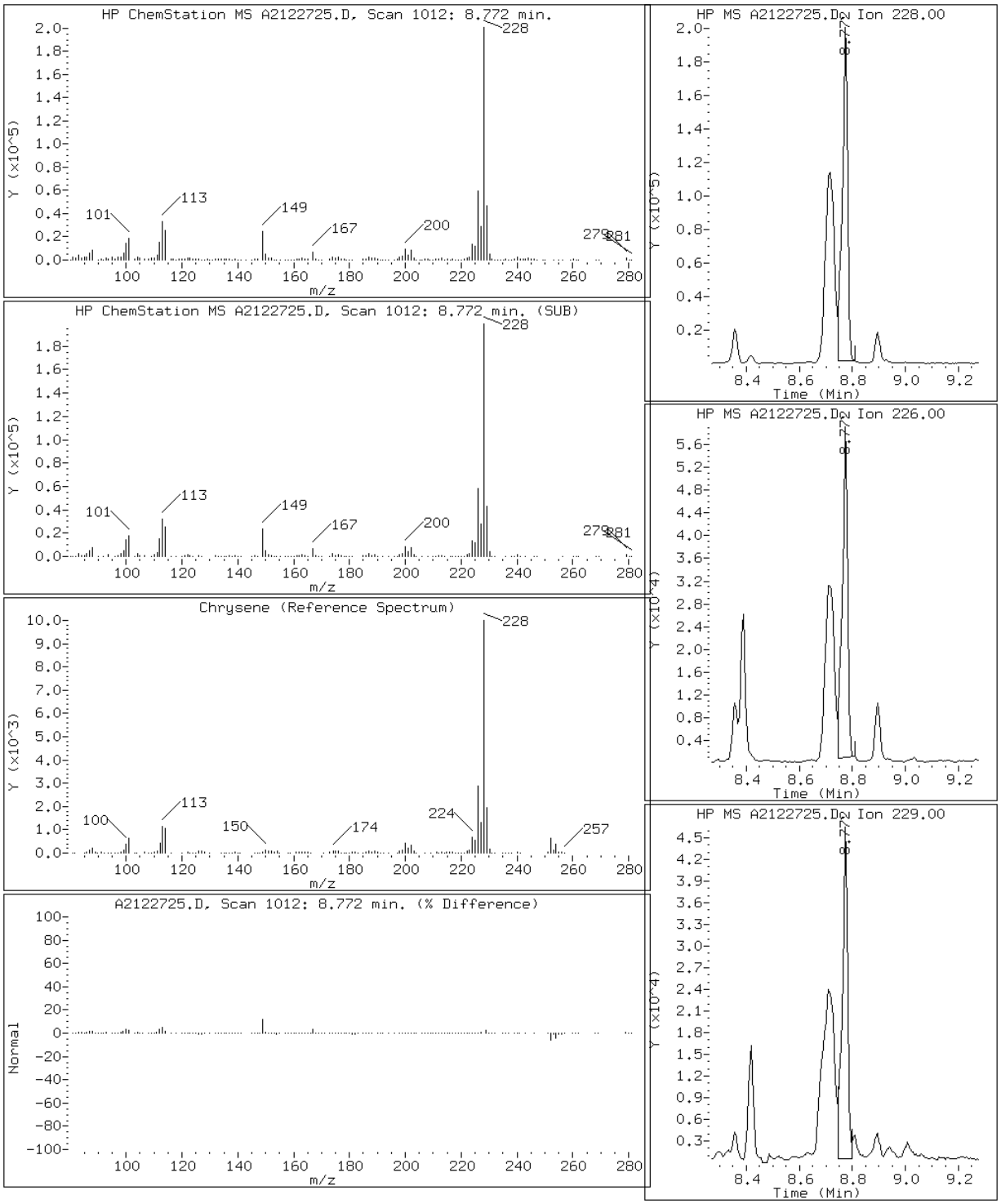
Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

17 Chrysene



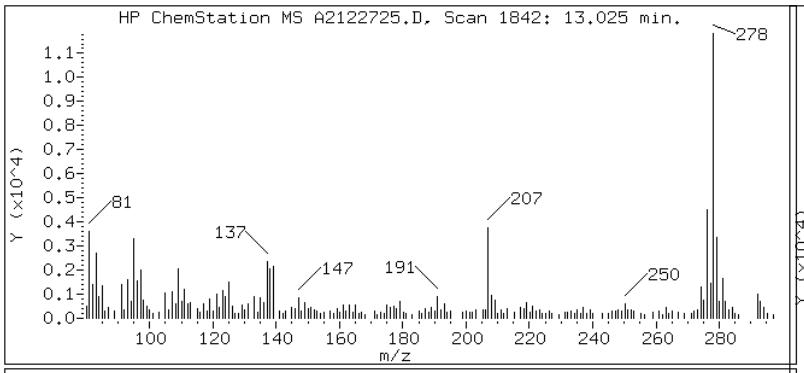
Data File: A2122725.D

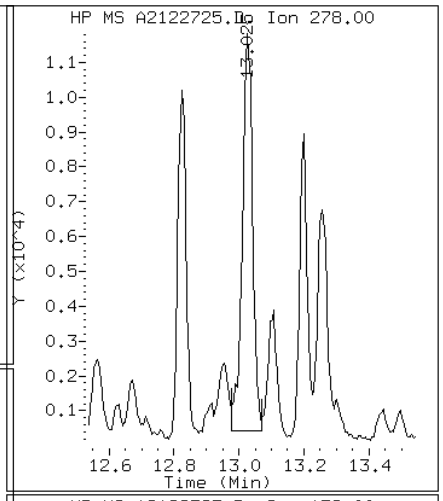
Date: 27-DEC-2012 18:06

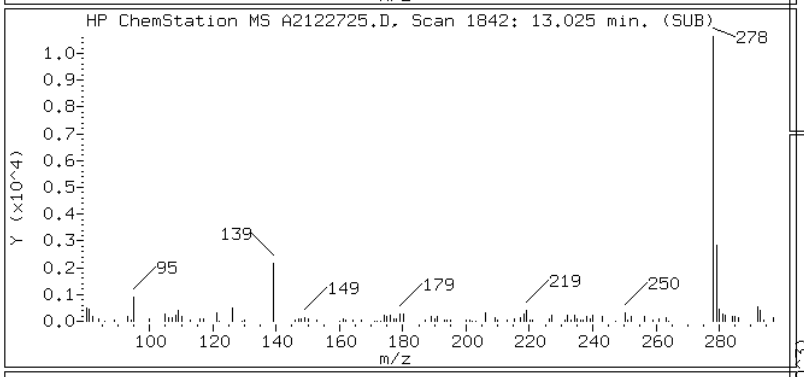
Client ID: CV0511N-CS Instrument: TSMA5973.i

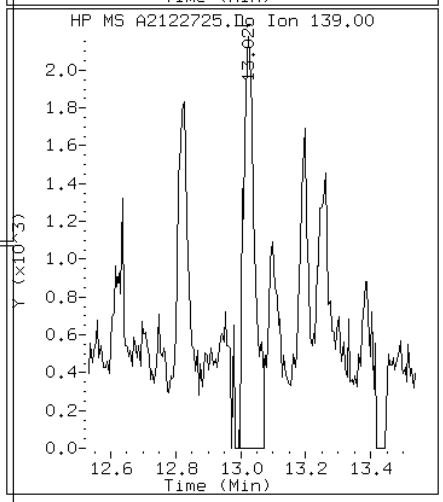
Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

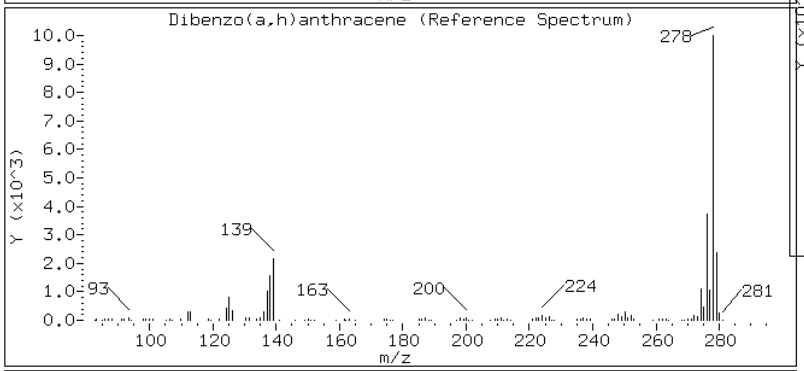
23 Dibenzo(a,h)anthracene

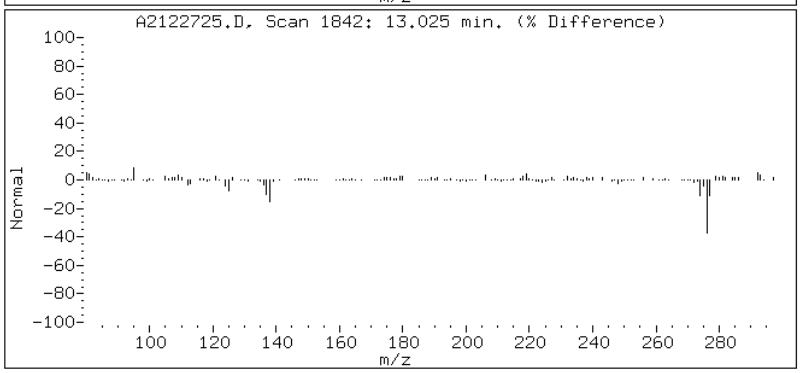












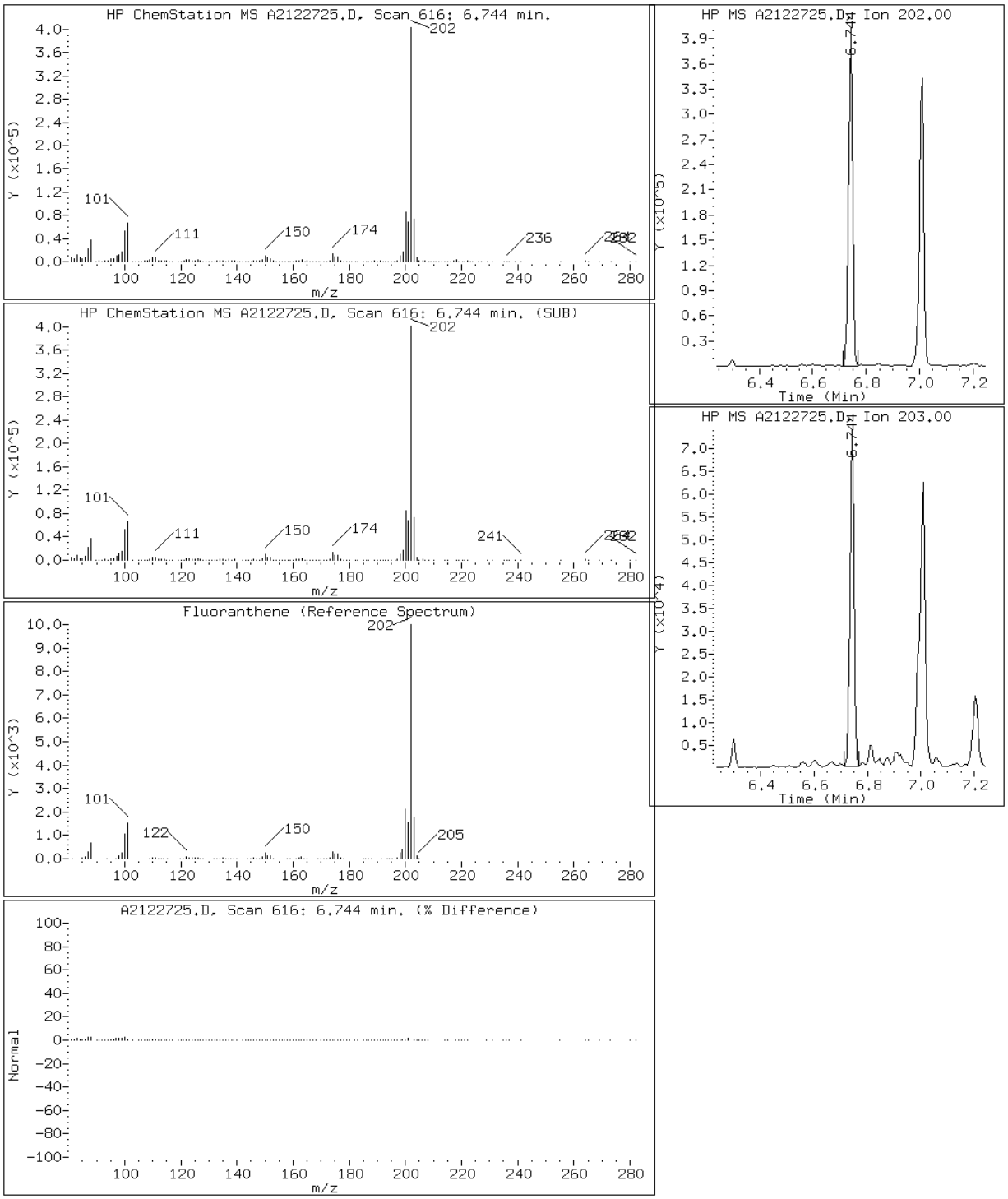
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

13 Fluoranthene



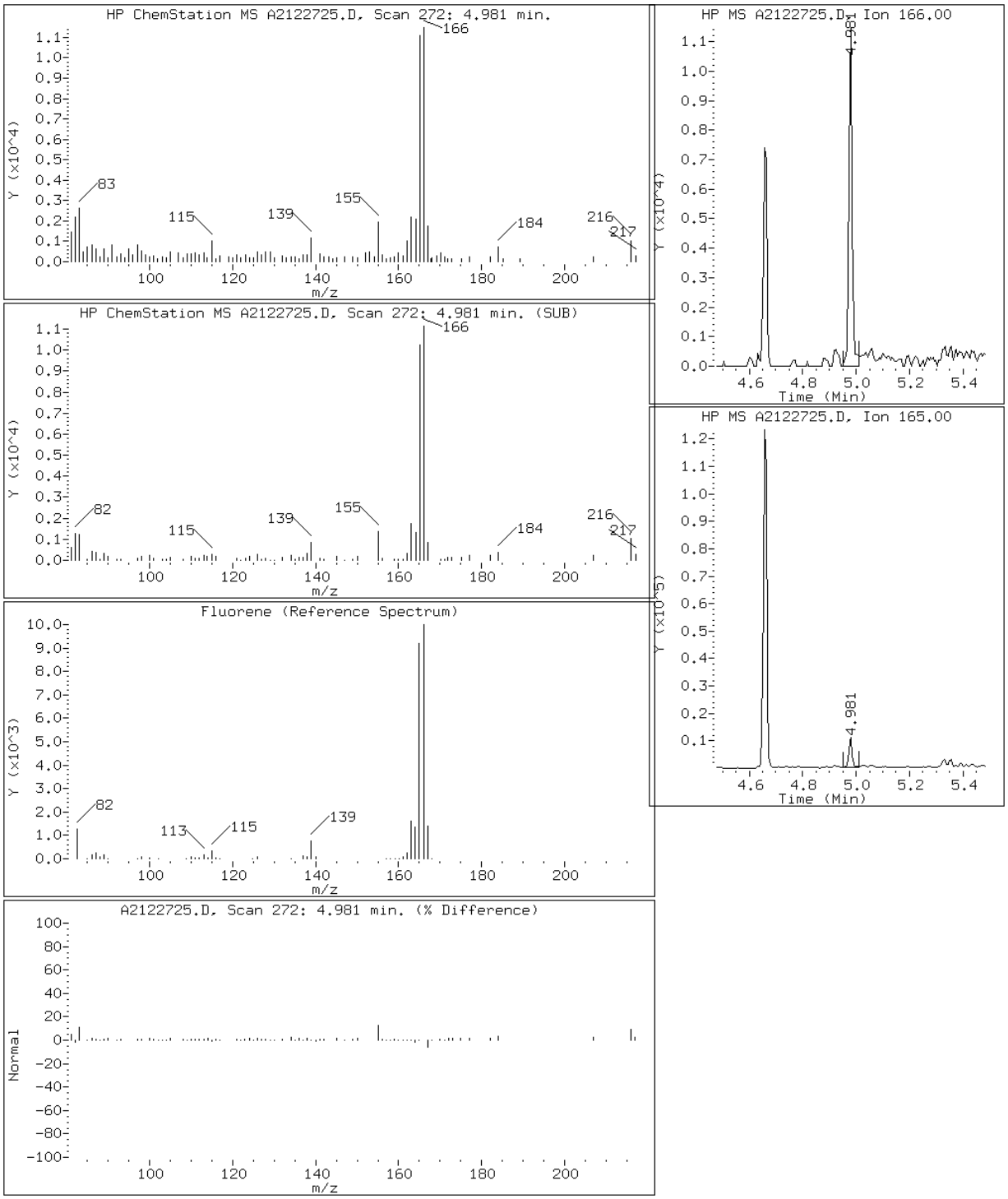
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

8 Fluorene



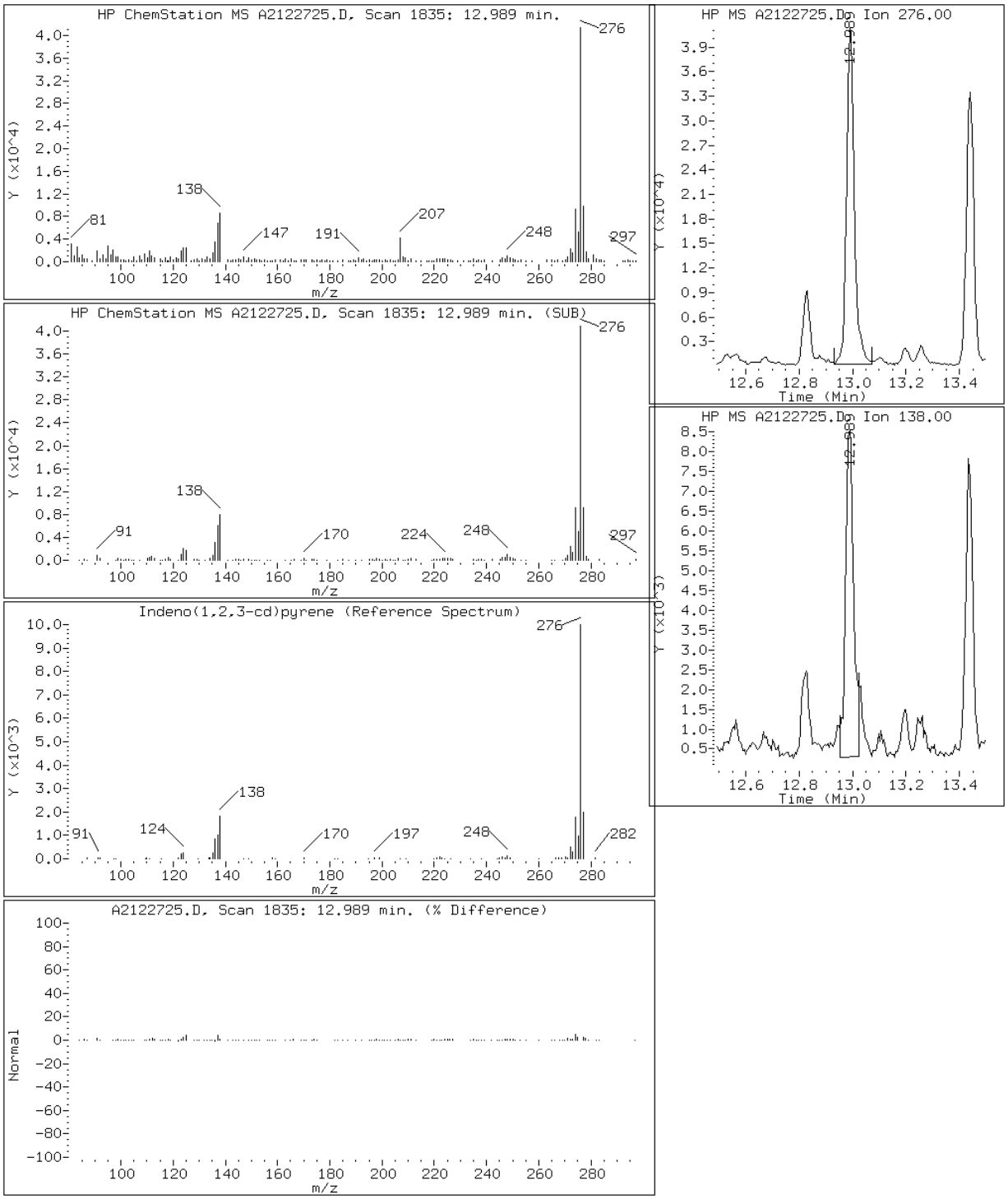
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

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



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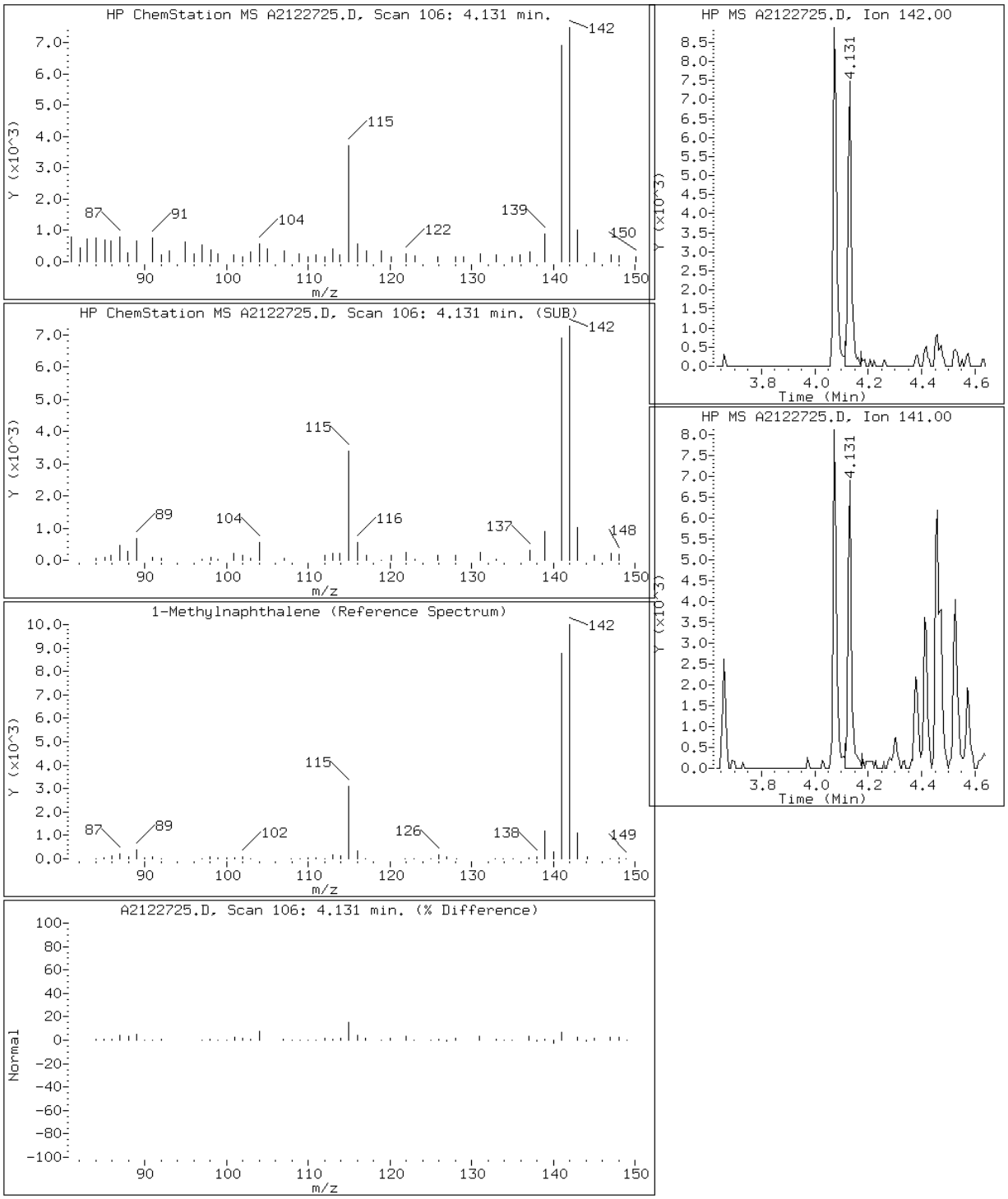
Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

4 1-Methylnaphthalene



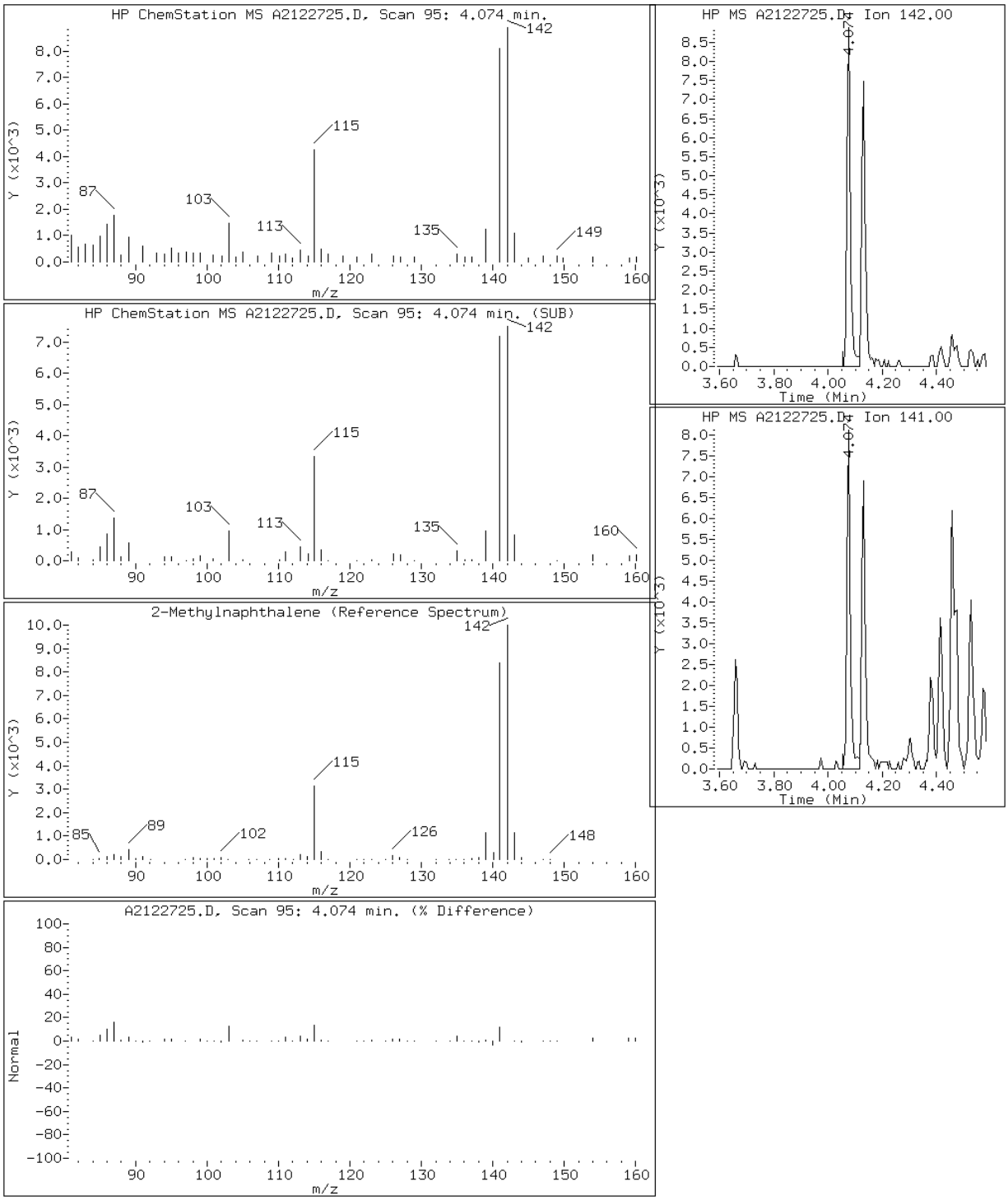
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

3 2-Methylnaphthalene



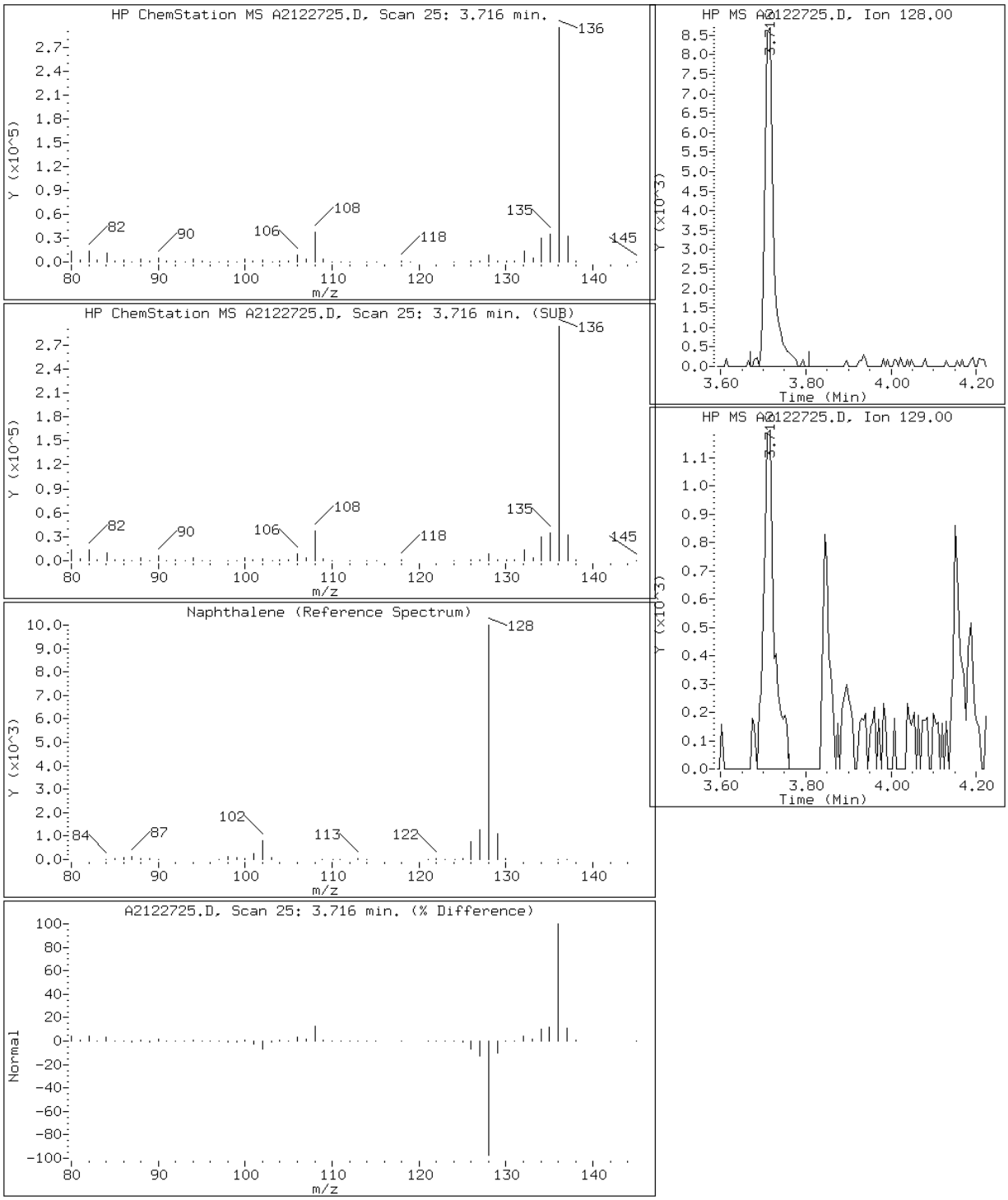
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

2 Naphthalene



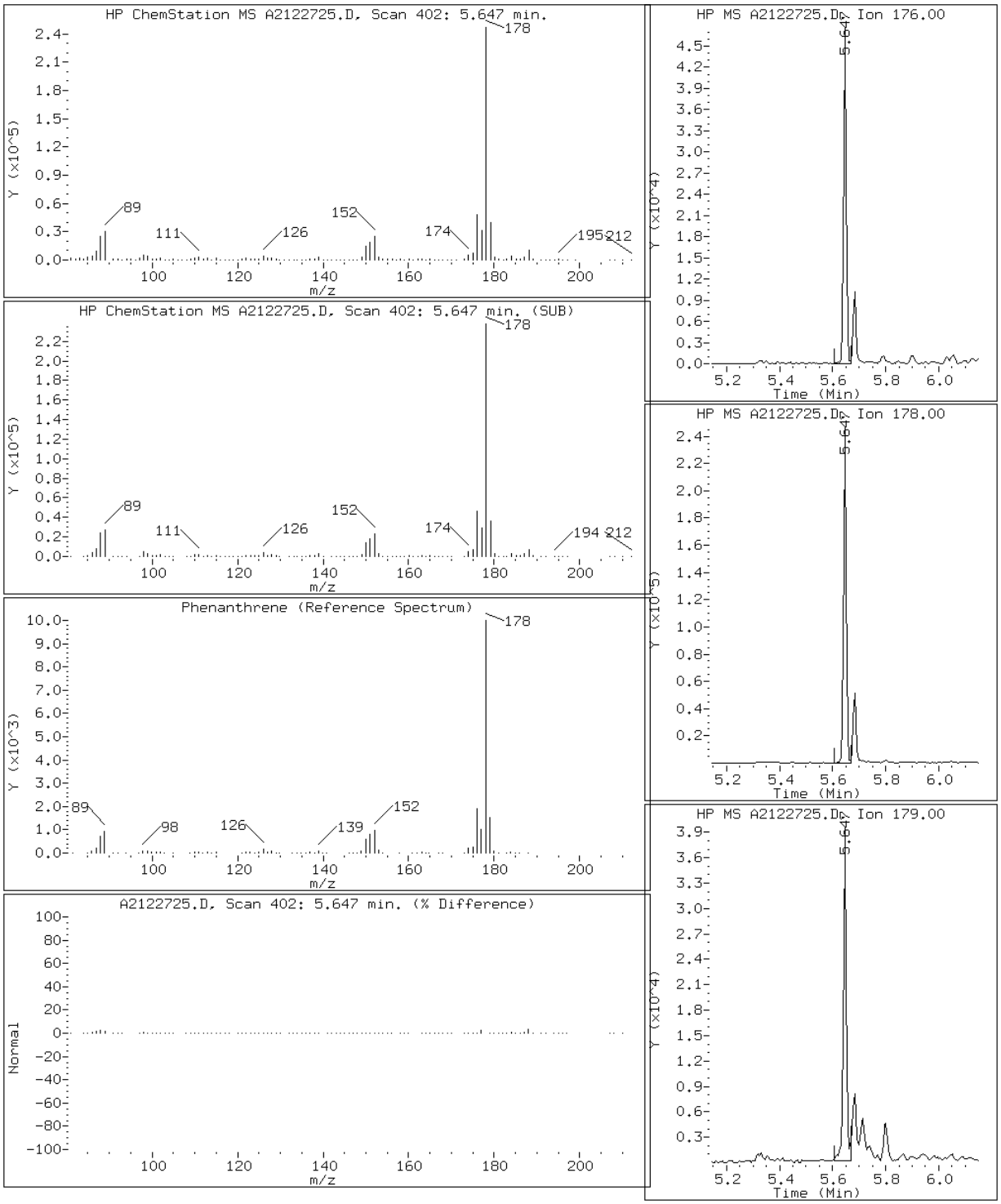
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

10 Phenanthrene



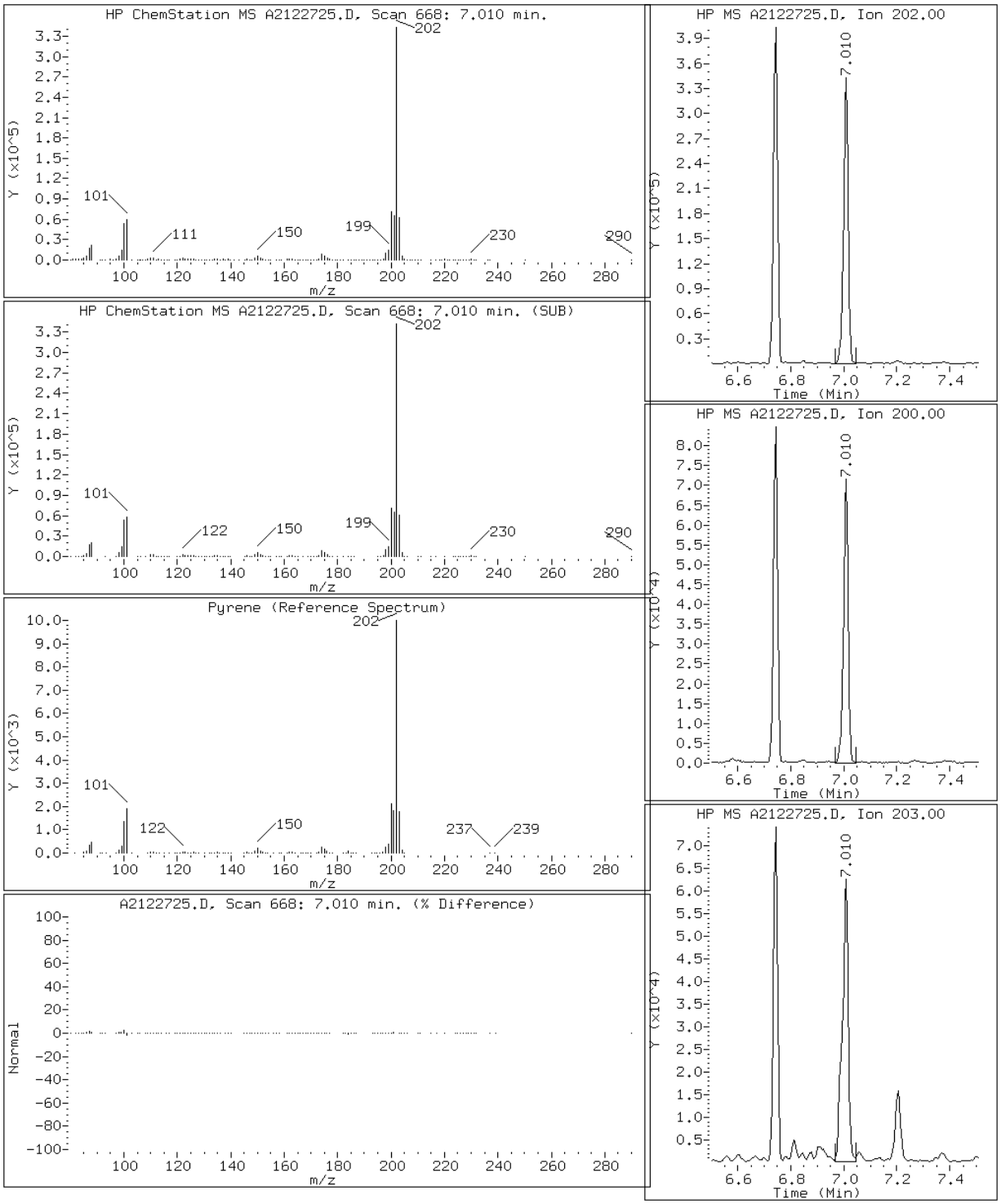
Data File: A2122725.D

Date: 27-DEC-2012 18:06

Client ID: CV0511N-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-47-A~98123~2~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511O-CS | Lab Sample ID: 680-85785-48

Matrix: Solid | Lab File ID: A2122711.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 11:54

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.69(g) | Date Analyzed: 12/27/2012 10:45

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

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

% Moisture: 36.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	26		10	0.89
208-96-8	Acenaphthylene	12		10	0.81
120-12-7	Anthracene	78		10	1.0
56-55-3	Benzo[a]anthracene	380	B	10	0.95
50-32-8	Benzo[a]pyrene	530	B	10	1.0
205-99-2	Benzo[b]fluoranthene	770	B	10	1.4
191-24-2	Benzo[g,h,i]perylene	230	B	10	1.7
207-08-9	Benzo[k]fluoranthene	270	B	10	0.98
218-01-9	Chrysene	390	B	10	1.1
53-70-3	Dibenz(a,h)anthracene	77	B	10	1.0
206-44-0	Fluoranthene	630	B	10	0.92
86-73-7	Fluorene	25		10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	280	B	10	1.7
90-12-0	1-Methylnaphthalene	17		10	0.81
91-57-6	2-Methylnaphthalene	19		10	0.80
91-20-3	Naphthalene	19		10	0.80
85-01-8	Phenanthrene	330		10	0.67
129-00-0	Pyrene	550	B	10	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	44		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122711.D
Lab Smp Id: 680-85785-A-48-A Client Smp ID: CV0511O-CS
Inj Date : 27-DEC-2012 10:45
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-48-A~98123~1~8270D/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: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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
* 1 Naphthalene-d8	136	3.700	3.705	(1.000)	1682608	40.0000		
2 Naphthalene	128	3.710	3.720	(1.003)	17537	0.37004	12	
3 2-Methylnaphthalene	142	4.074	4.079	(1.101)	11012	0.36767	12	
4 1-Methylnaphthalene	142	4.130	4.135	(1.116)	10411	0.33589	11	
* 5 Acenaphthene-d10	164	4.663	4.663	(1.000)	886133	40.0000		
6 Acenaphthylene	152	4.581	4.581	(0.982)	10893	0.22937	7.5	
7 Acenaphthene	153	4.678	4.678	(1.003)	14925	0.51139	17	
8 Fluorene	166	4.981	4.980	(1.068)	16426	0.49262	16	
* 9 Phenanthrene-d10	188	5.631	5.631	(1.000)	1381944	40.0000		
10 Phenanthrene	176	5.647	5.646	(1.003)	57002	6.39303	210	
11 Anthracene	178	5.682	5.687	(1.009)	72371	1.53265	50	
$ 12 o-Terphenyl	230	5.903	5.903	(1.048)	51951	1.77881	58	
13 Fluoranthene	202	6.743	6.743	(1.197)	678915	12.3749	400	
* 14 Chrysene-d12	240	8.746	8.736	(1.000)	1716892	40.0000		

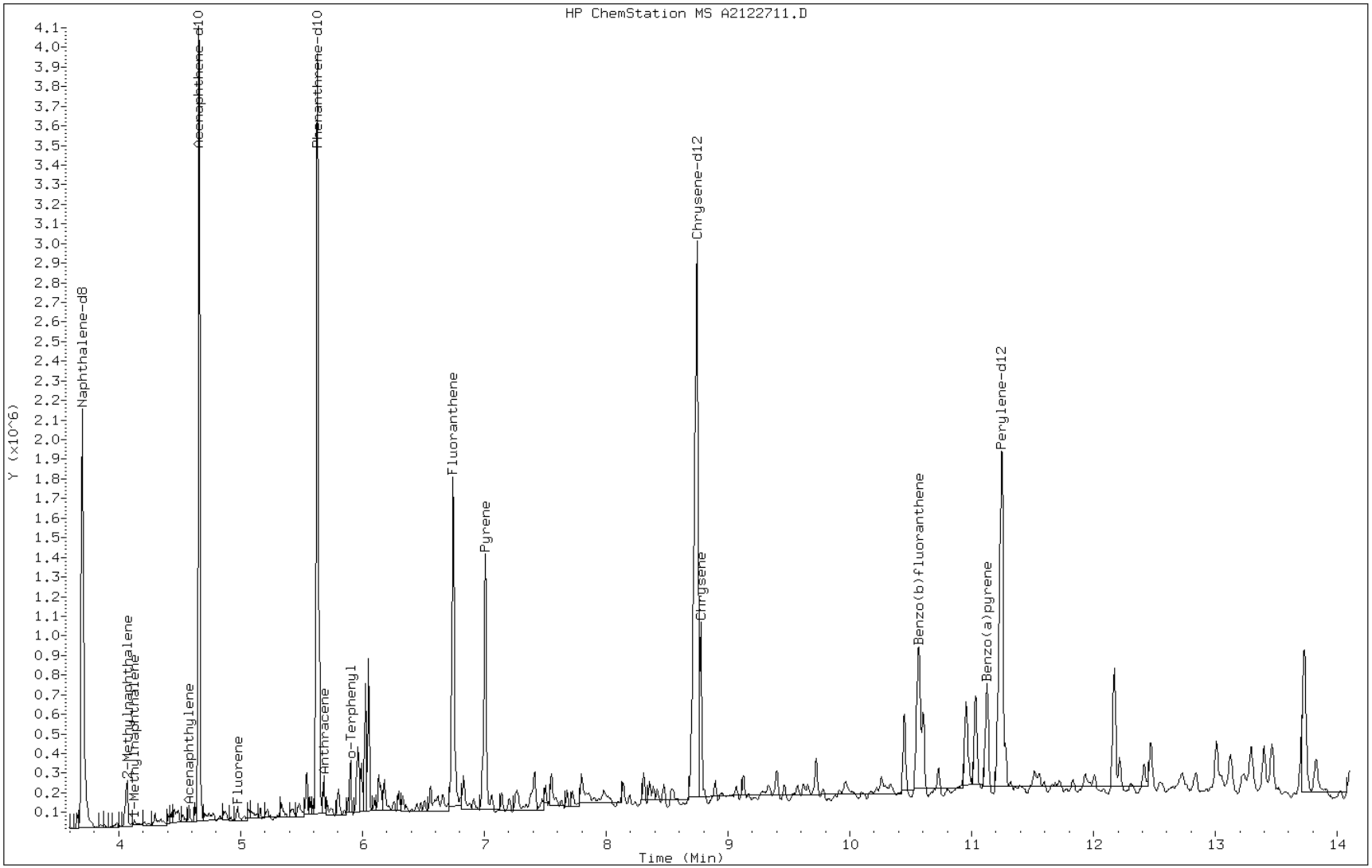
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.009	7.004	(0.801)	632768	10.8136	350	
16 Benzo(a)anthracene	226	8.721	8.700	(0.997)	117022	7.53200	240	
17 Chrysene	228	8.777	8.772	(1.004)	409928	7.70383	250	
* 18 Perylene-d12	264	11.252	11.241	(1.000)	1394824	40.0000		
19 Benzo(b)fluoranthene	252	10.565	10.544	(0.939)	651741	15.1517	490	
20 Benzo(k)fluoranthene	252	10.606	10.596	(0.943)	232975	5.30316	170	
21 Benzo(a)pyrene	252	11.129	11.113	(0.989)	406913	10.4697	340	
22 Indeno(1,2,3-cd)pyrene	276	13.009	12.993	(1.156)	211304	5.39471	180	
23 Dibenzo(a,h)anthracene	278	13.040	13.039	(1.159)	59784	1.50657	49	
24 Benzo(g,h,i)perylene	276	13.460	13.444	(1.196)	177567	4.57599	150	

Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW



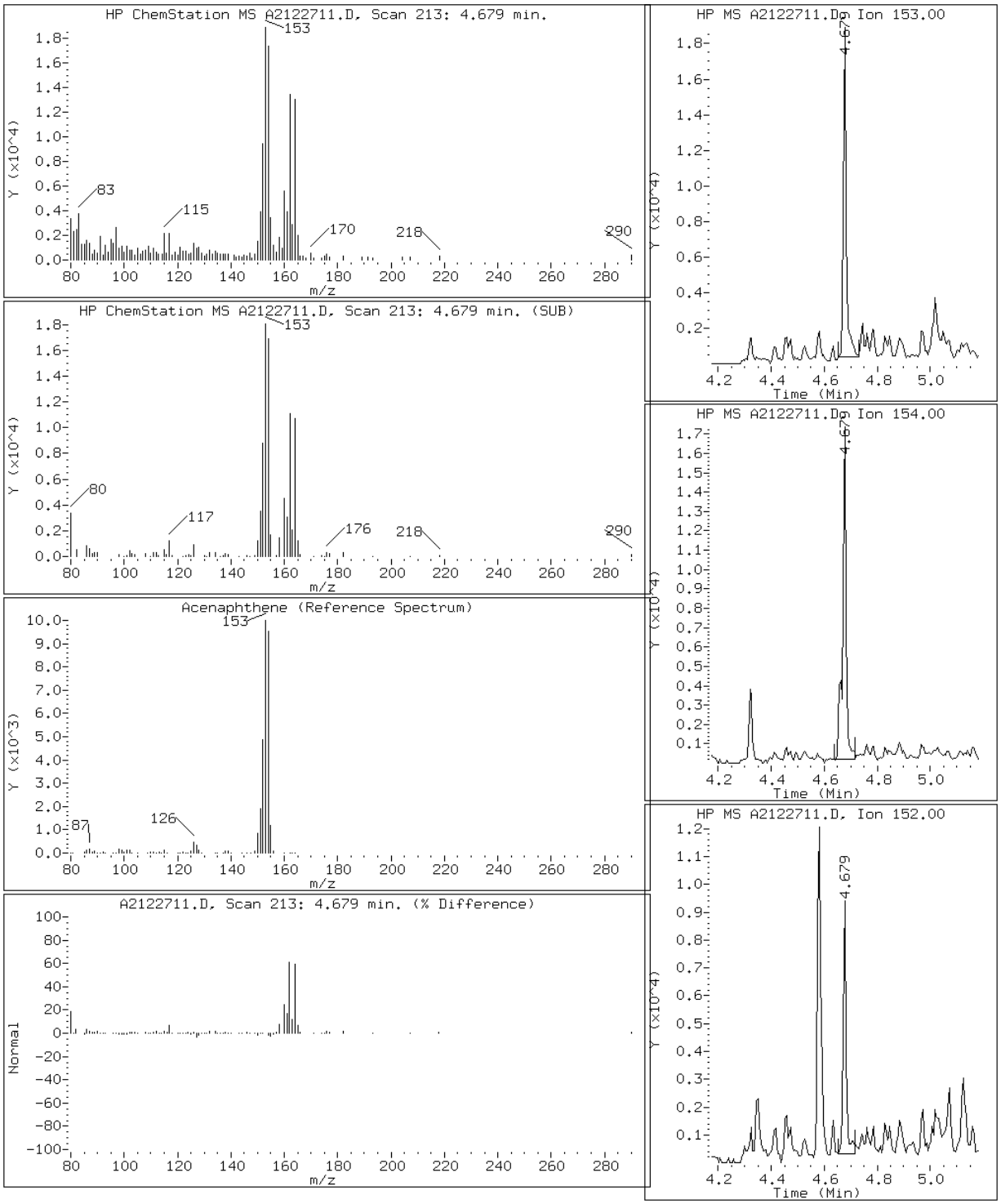
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



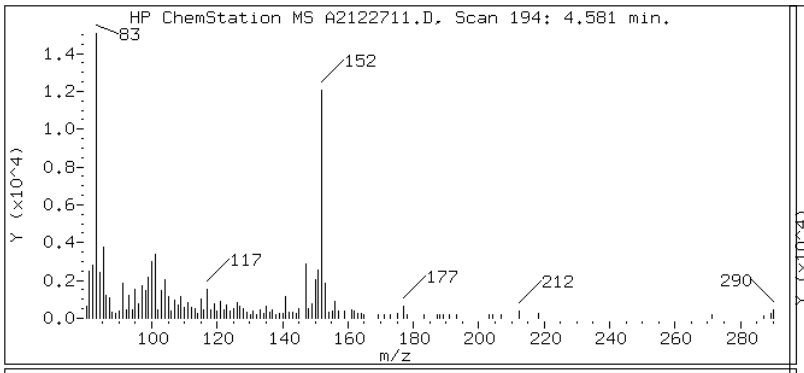
Data File: A2122711.D

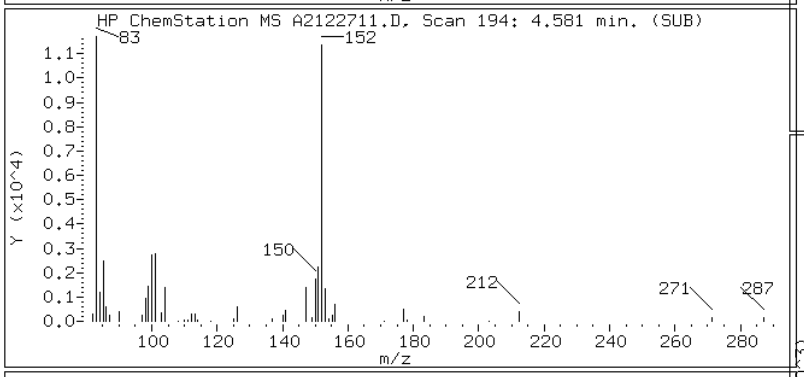
Date: 27-DEC-2012 10:45

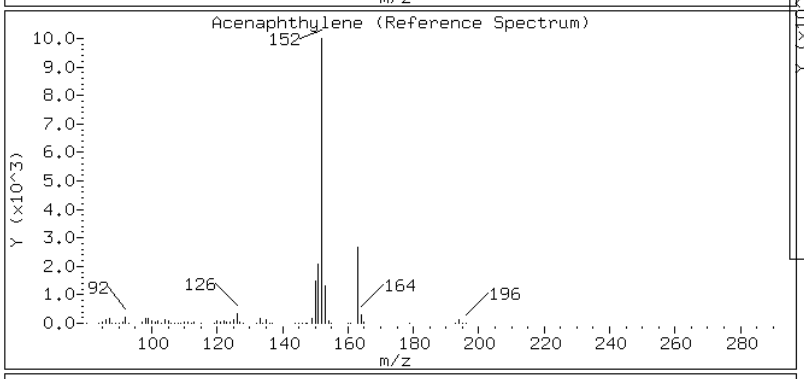
Client ID: CV0511O-CS Instrument: TSMA5973.i

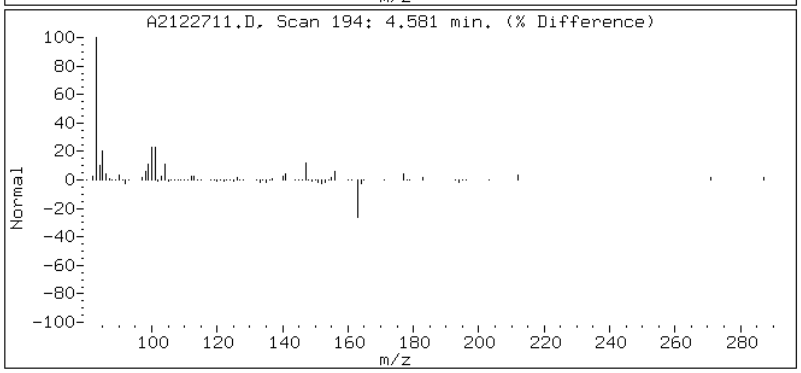
Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

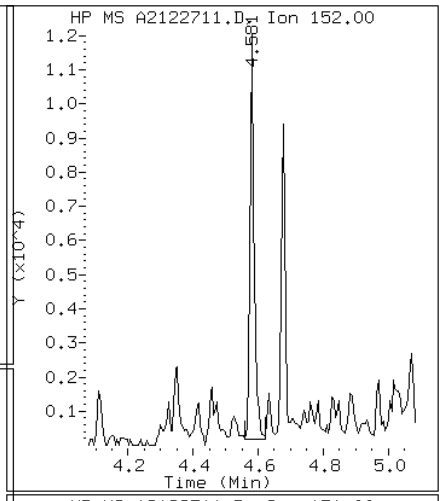
6 Acenaphthylene

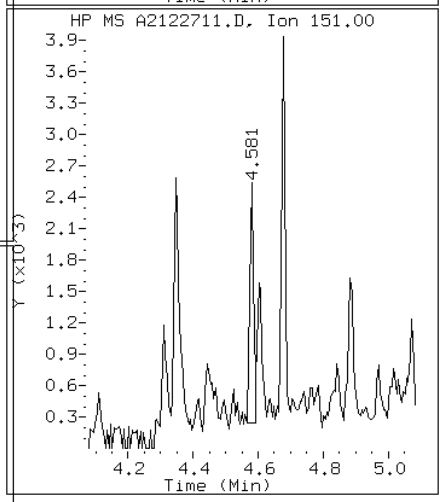












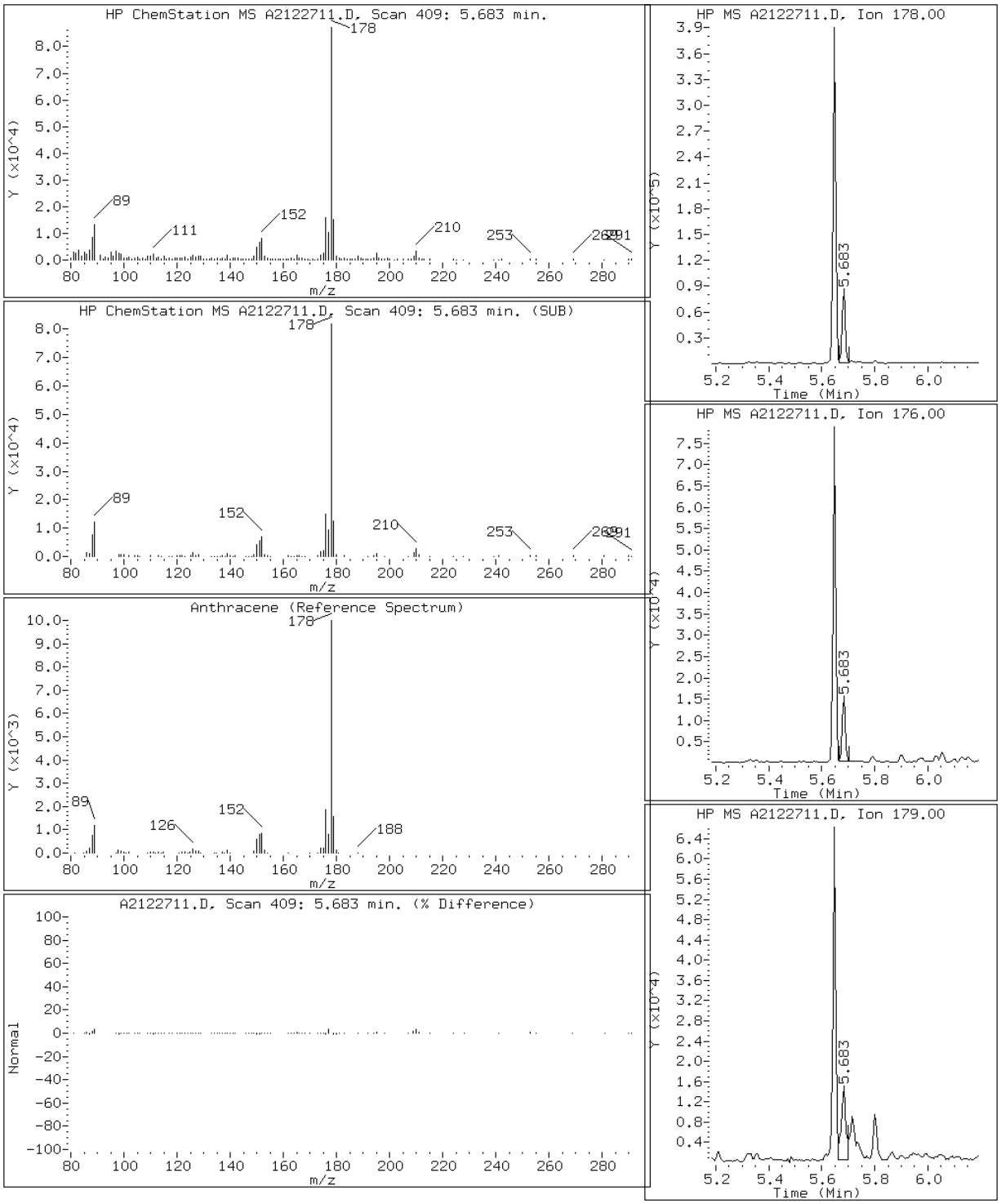
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

11 Anthracene



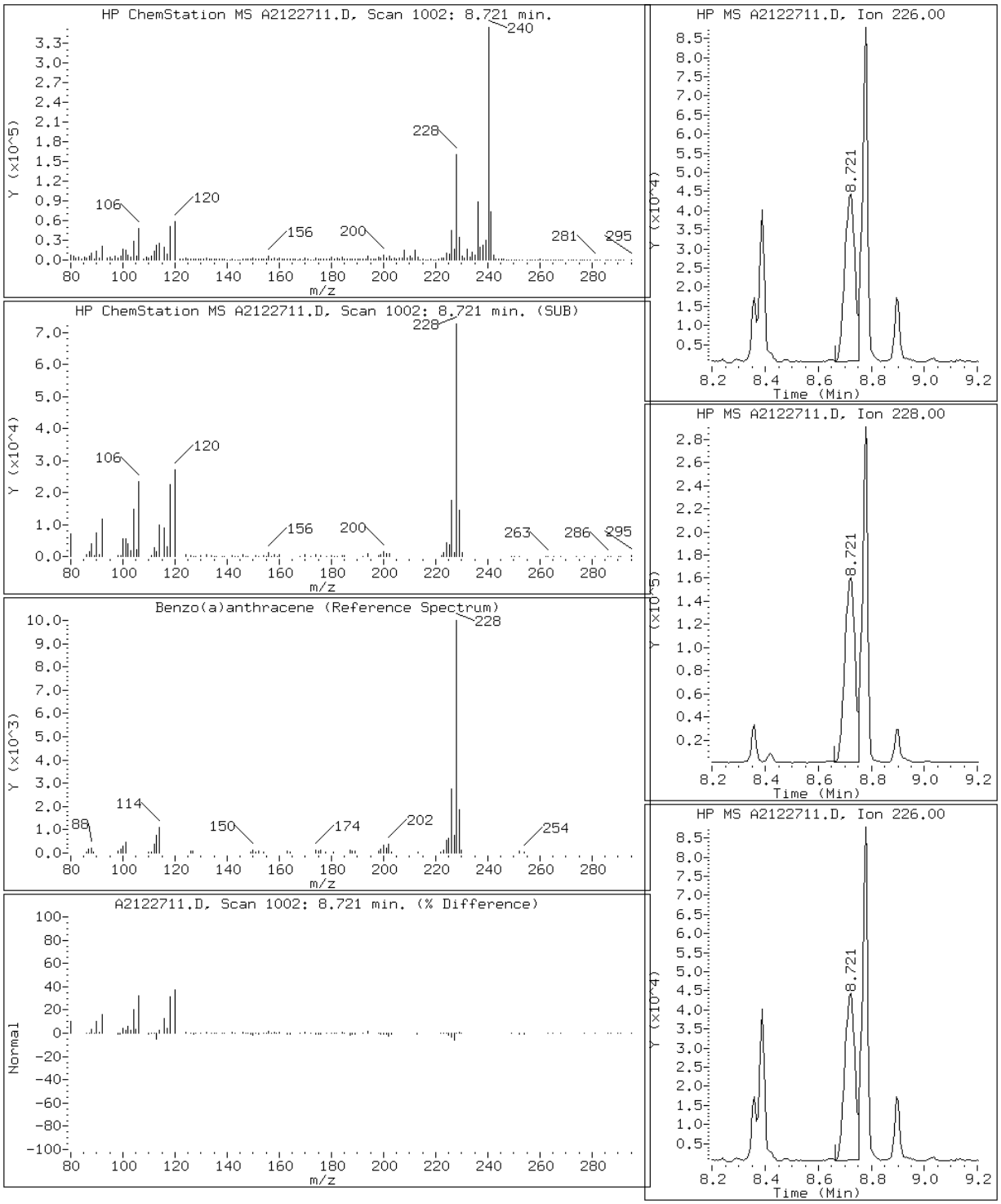
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



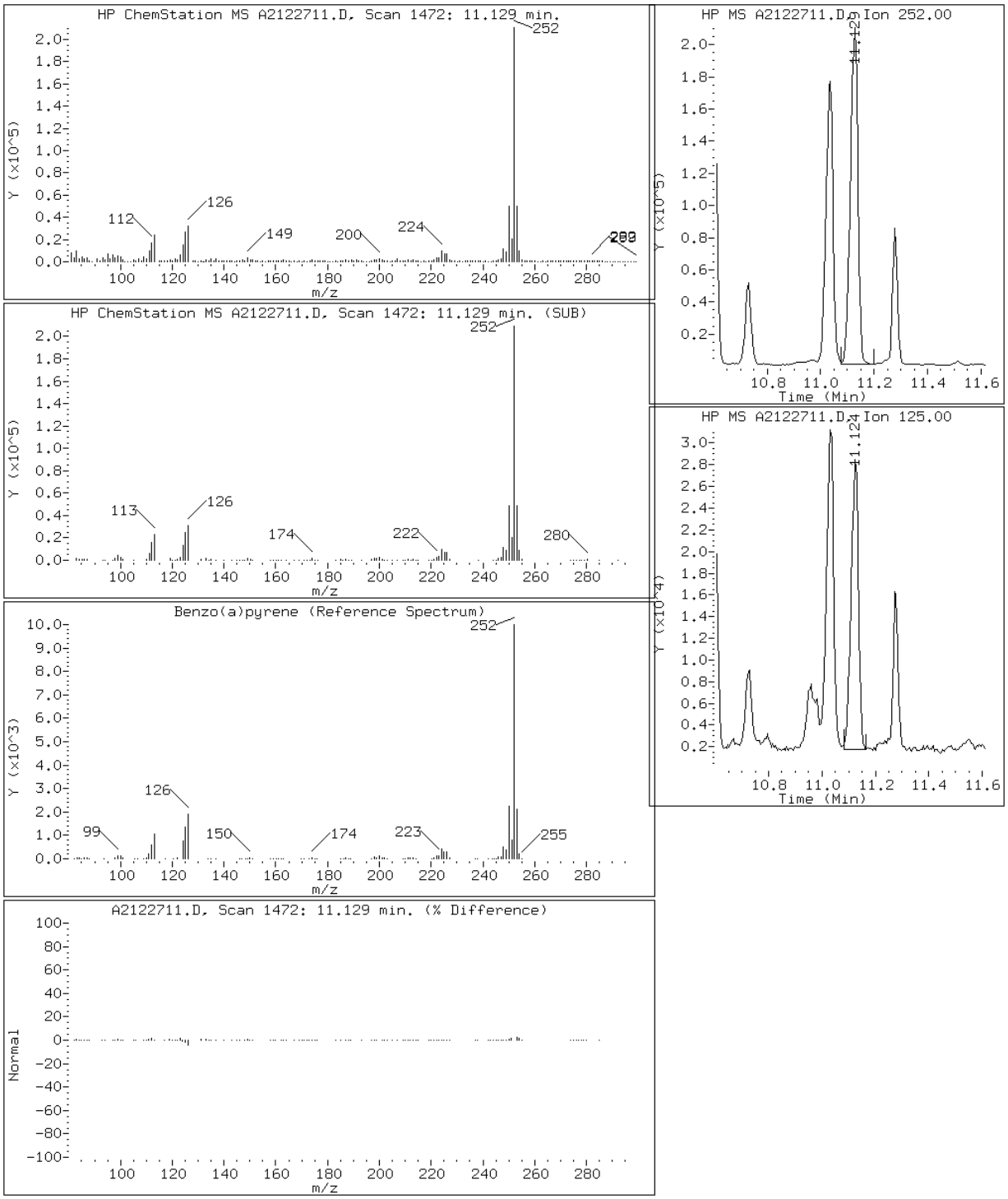
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



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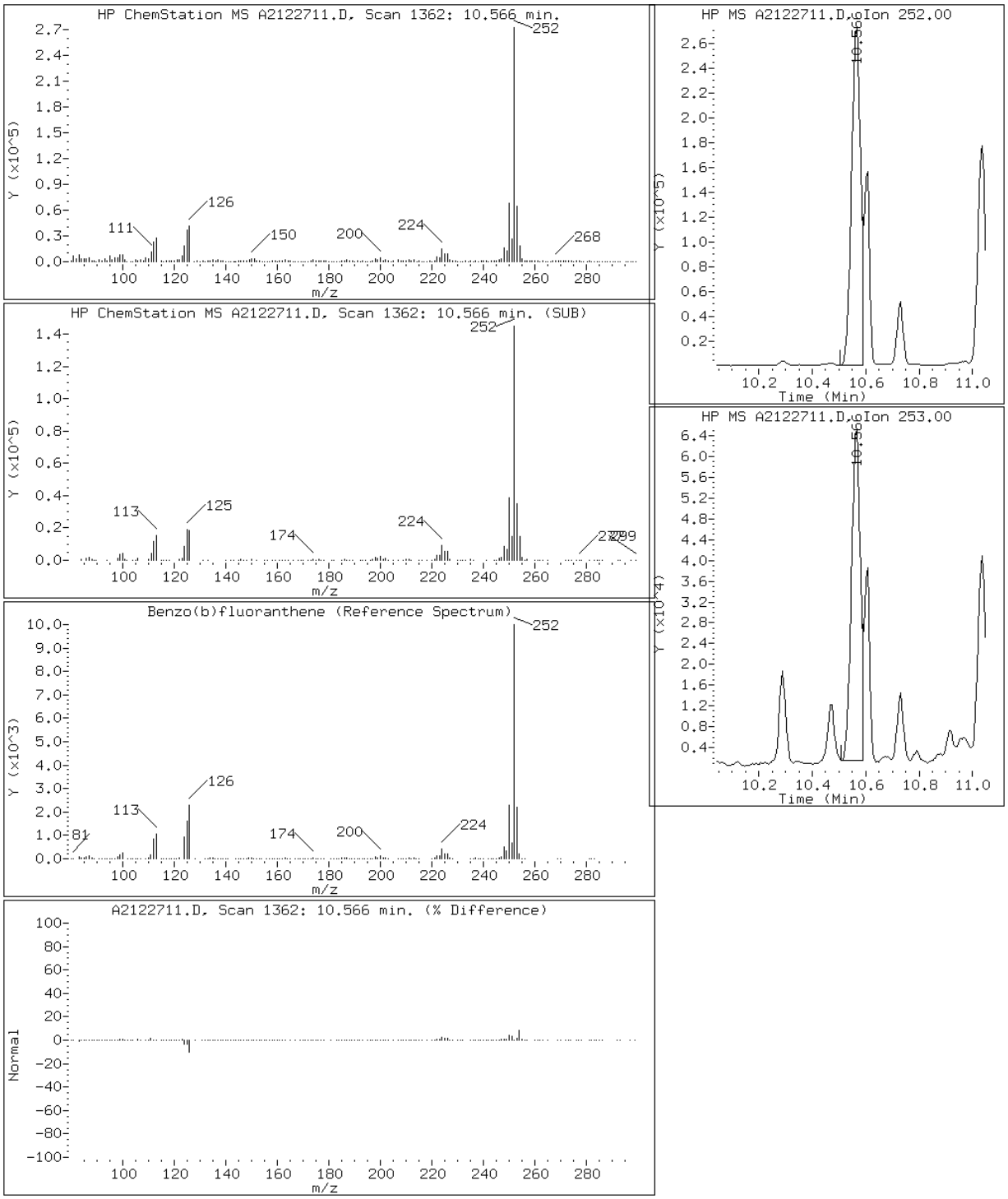
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene



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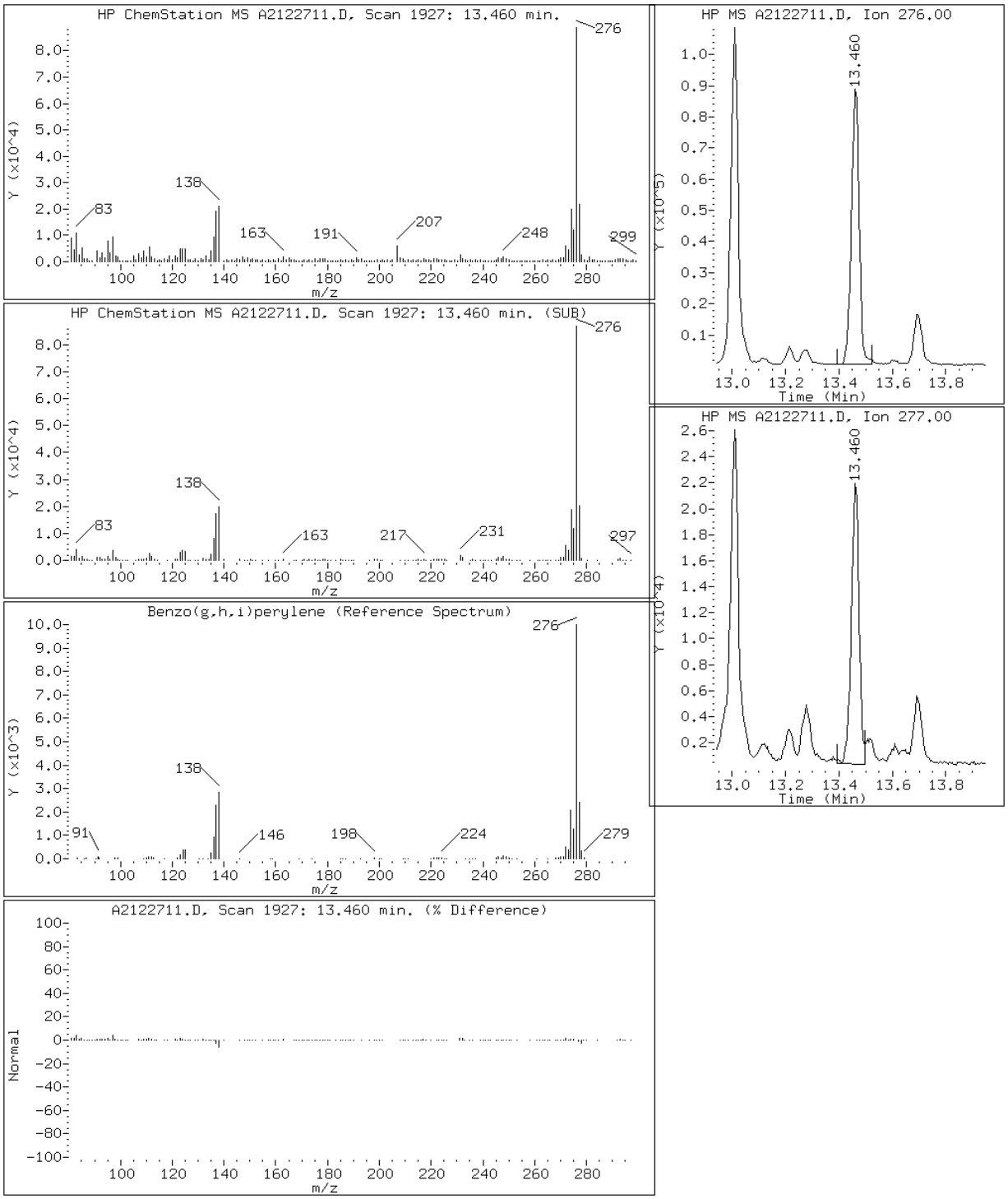
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



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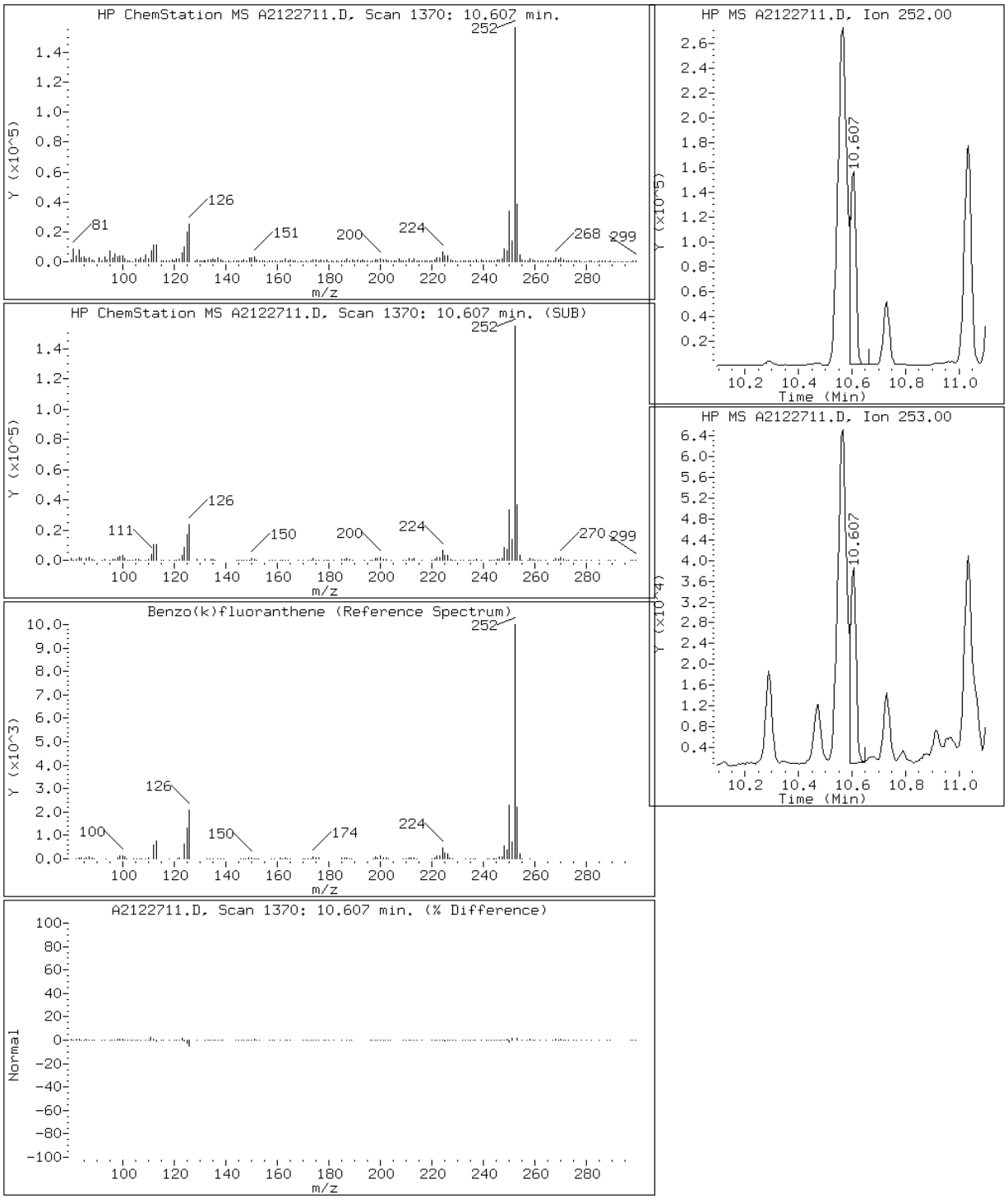
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



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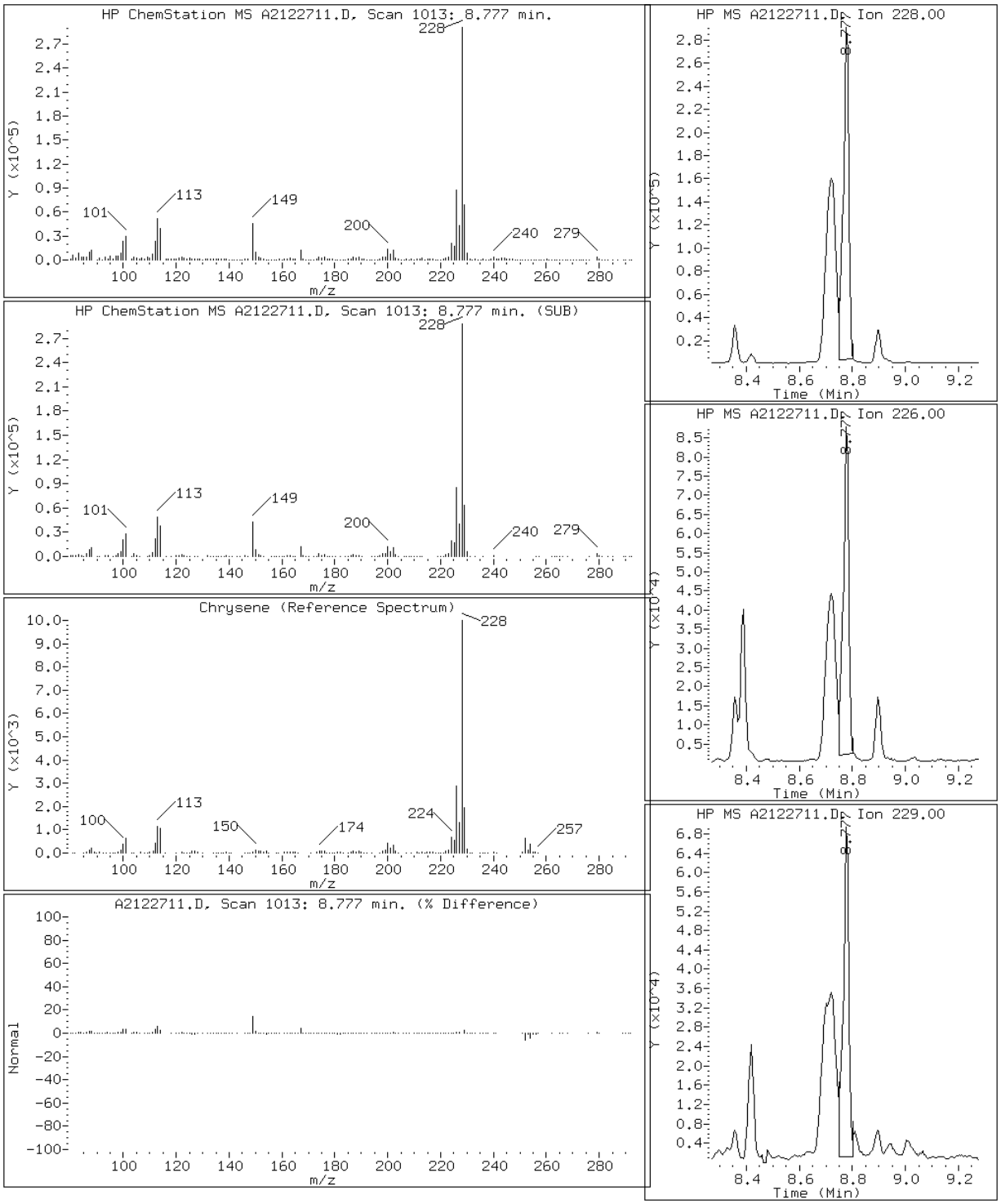
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

17 Chrysene



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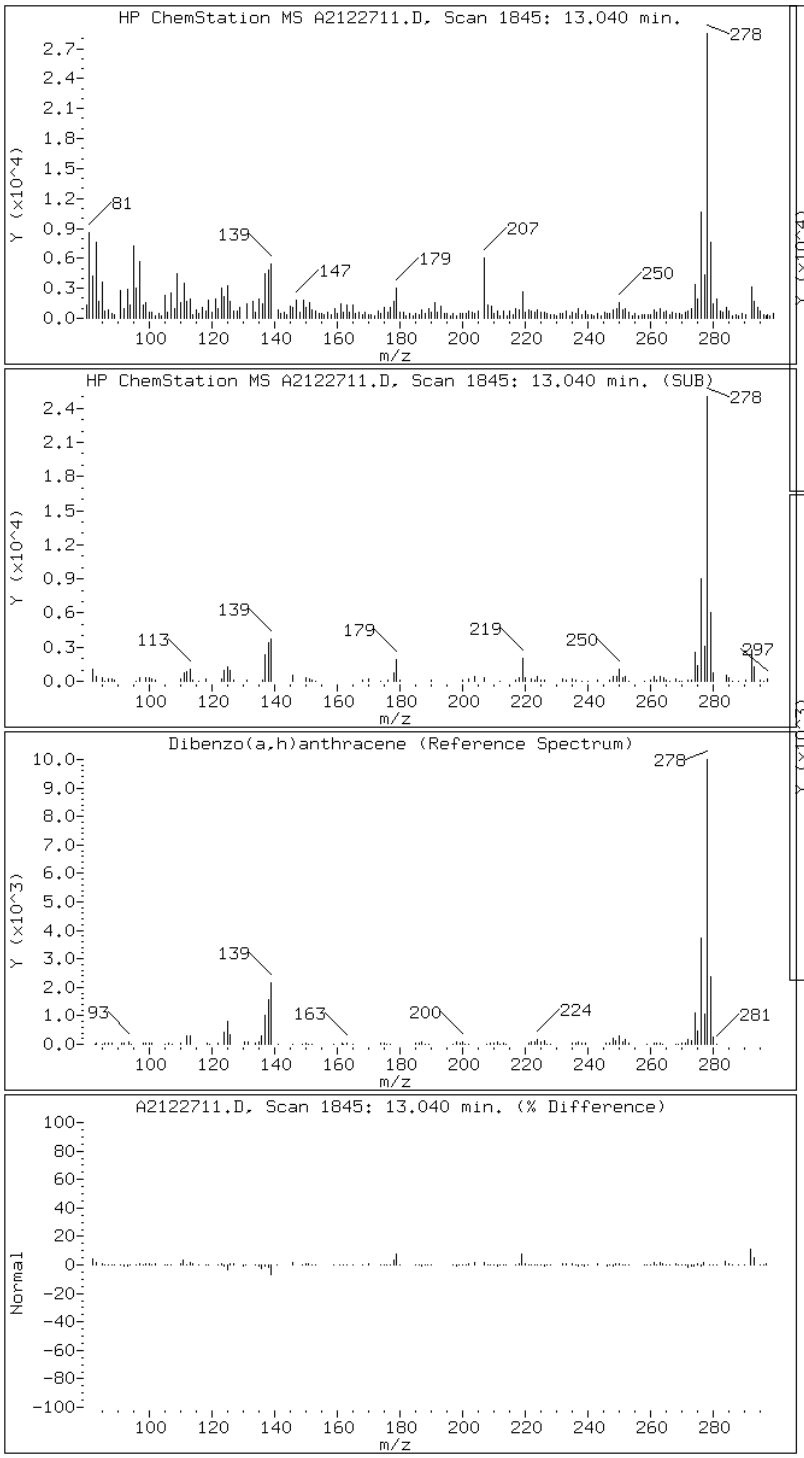
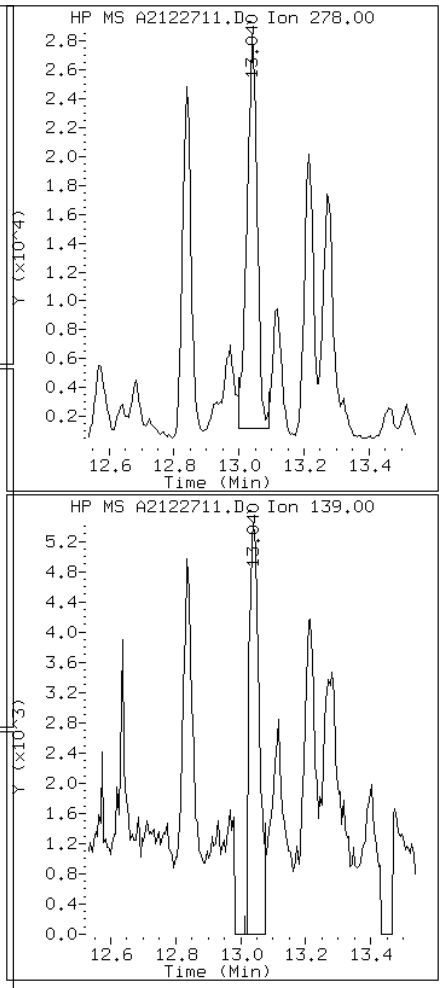
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene





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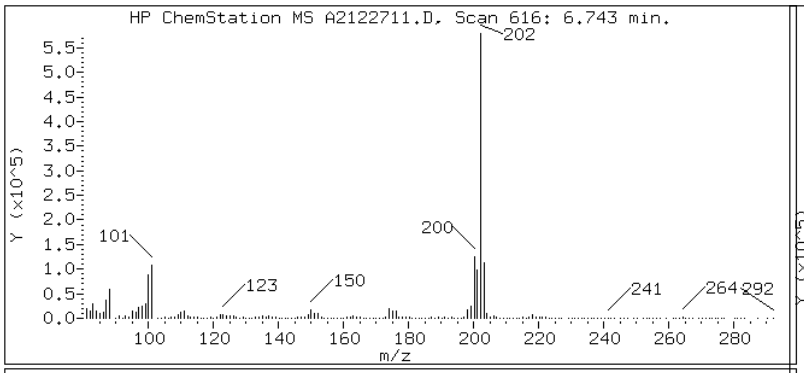
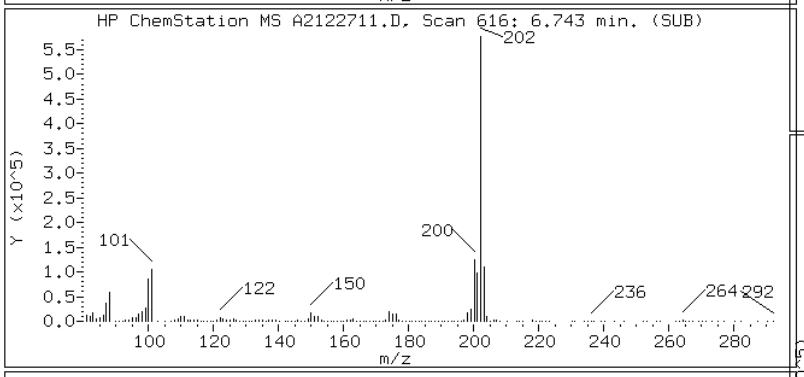
Date: 27-DEC-2012 10:45

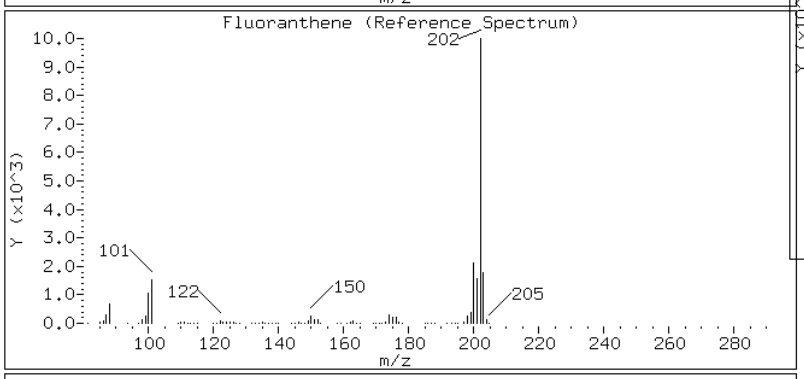
Client ID: CV0511O-CS Instrument: TSMA5973.i

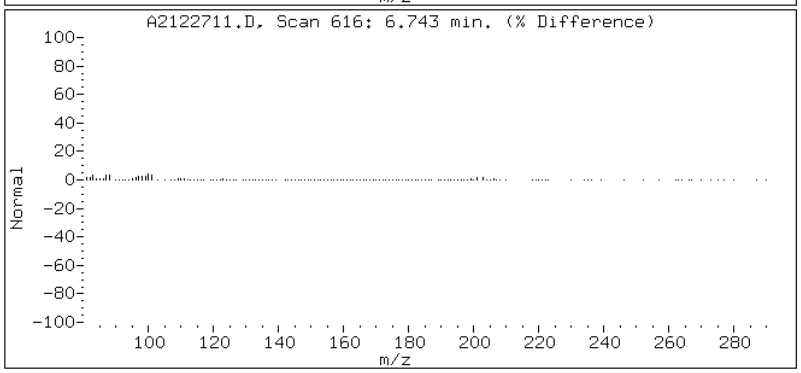
Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

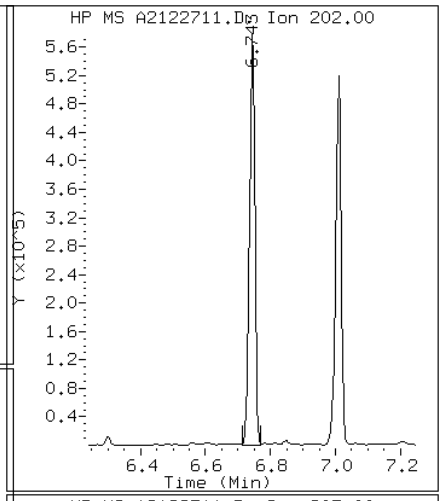
13 Fluoranthene

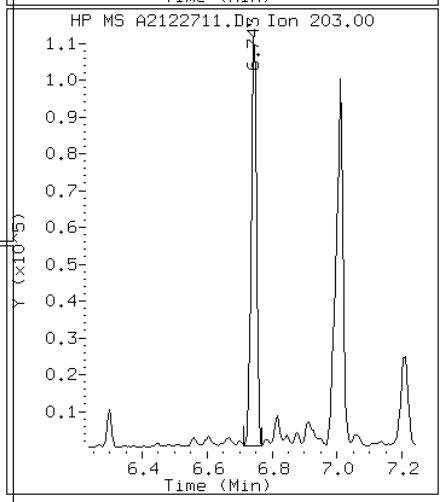












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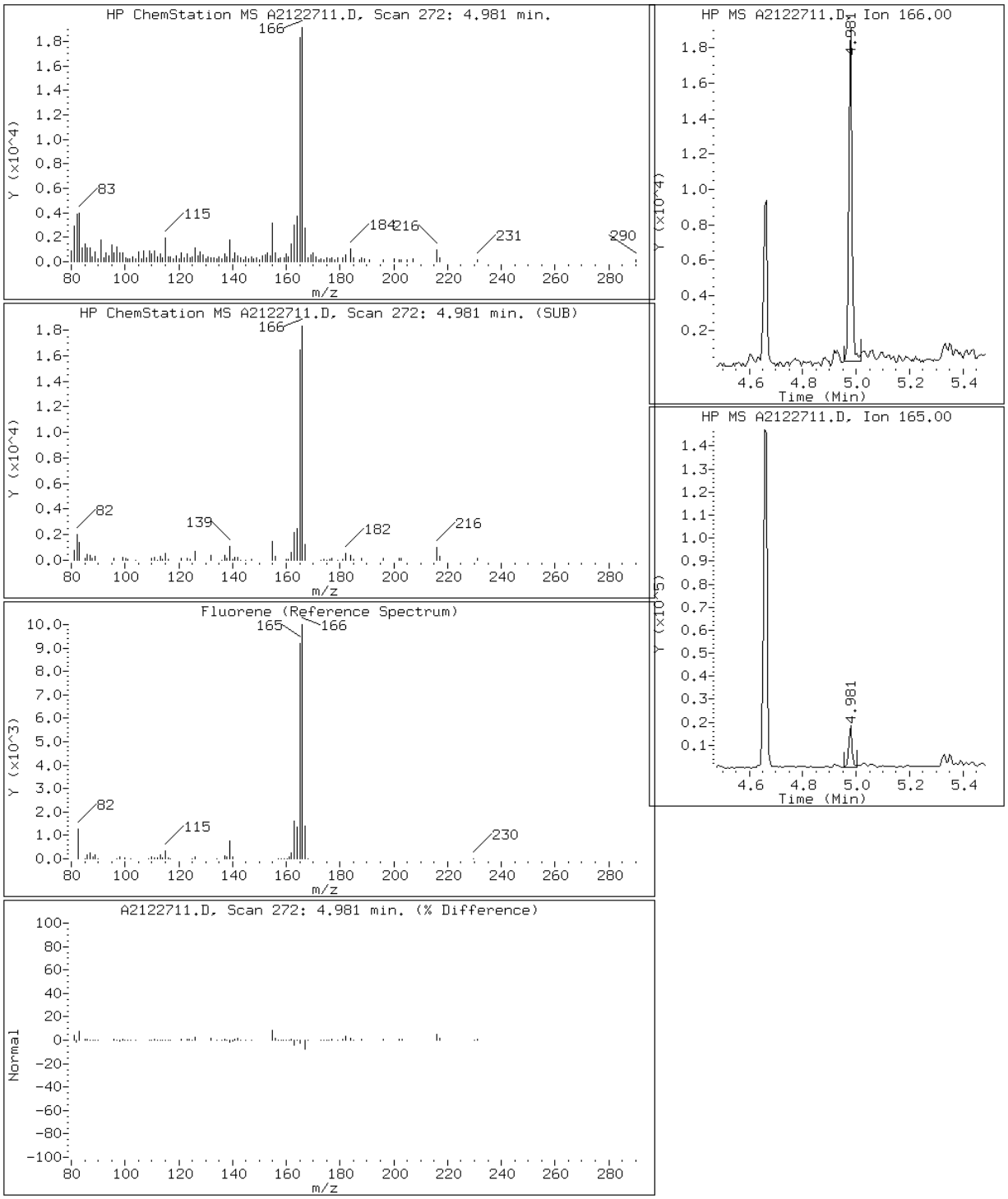
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

8 Fluorene



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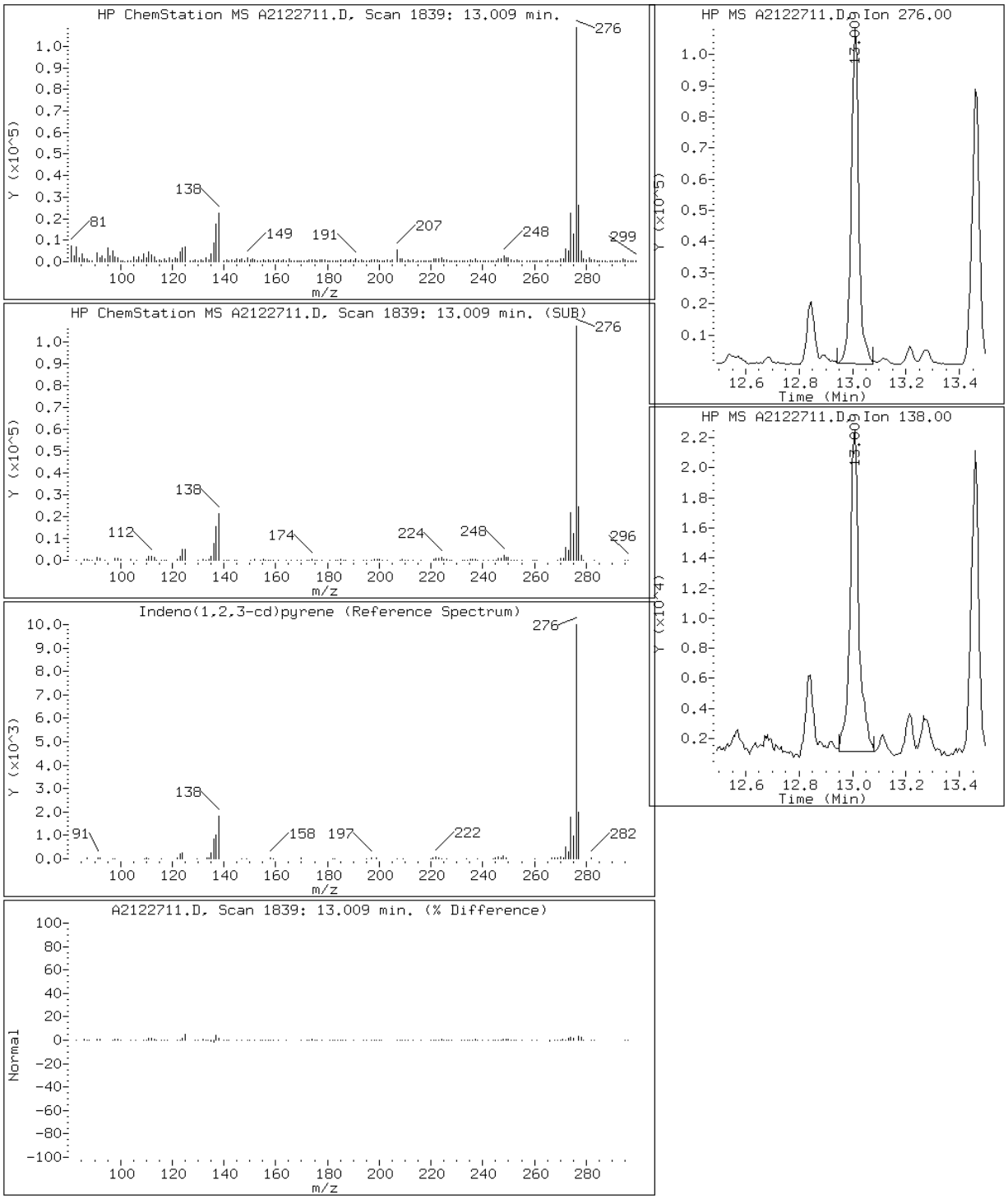
Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

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



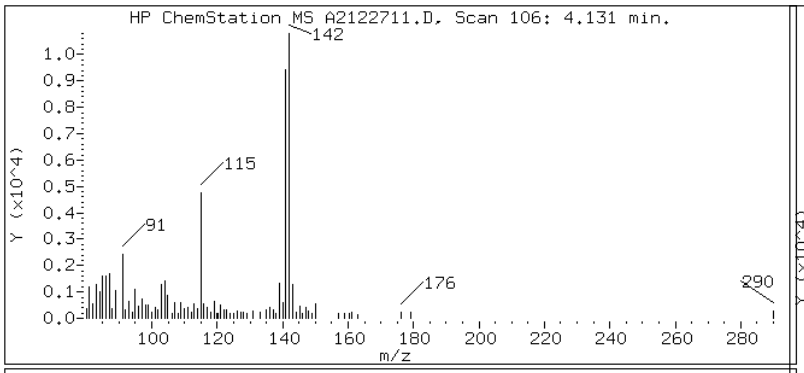
Data File: A2122711.D

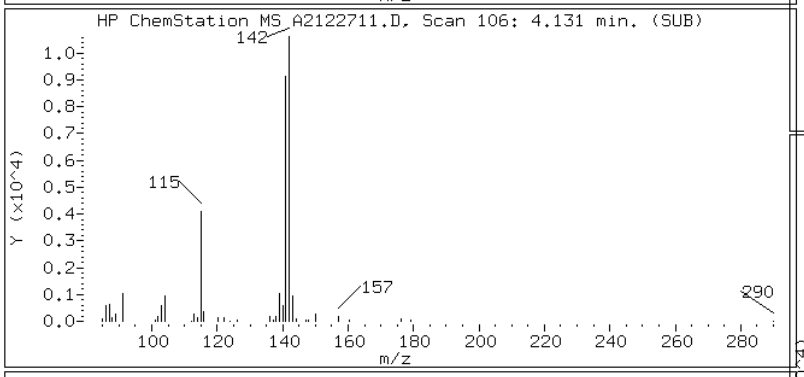
Date: 27-DEC-2012 10:45

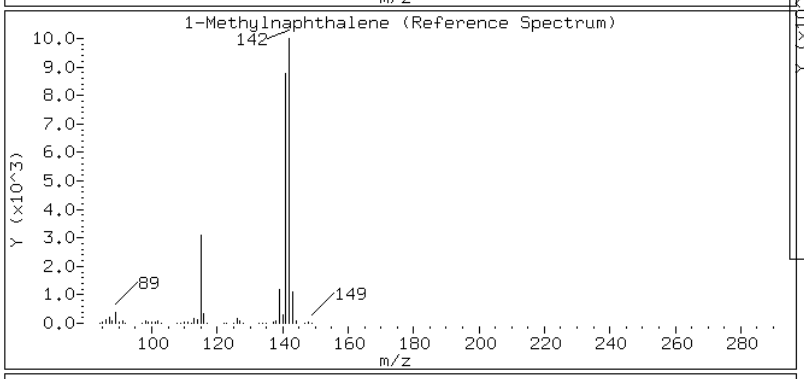
Client ID: CV0511O-CS Instrument: TSMA5973.i

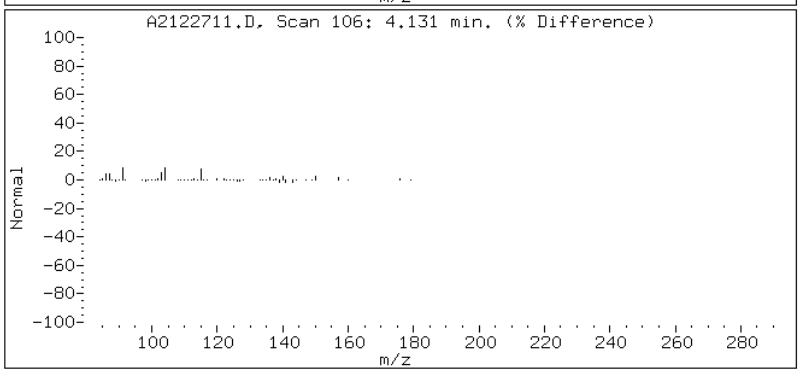
Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

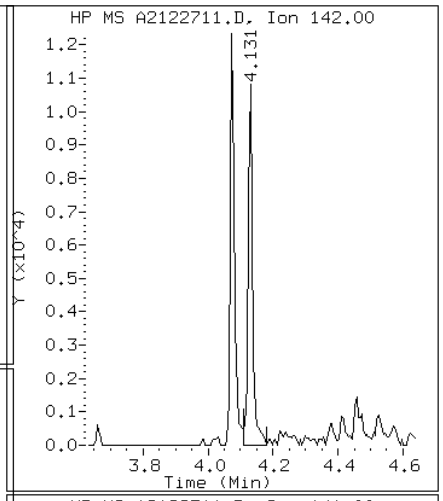
4 1-Methylnaphthalene

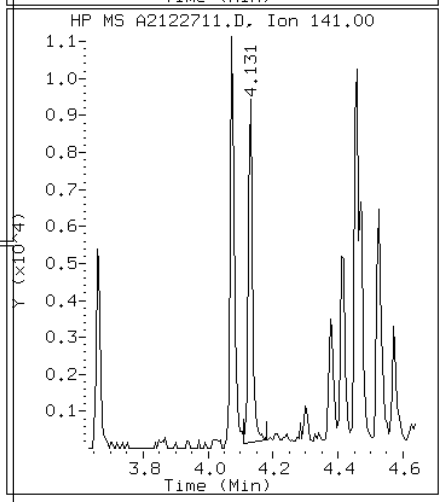












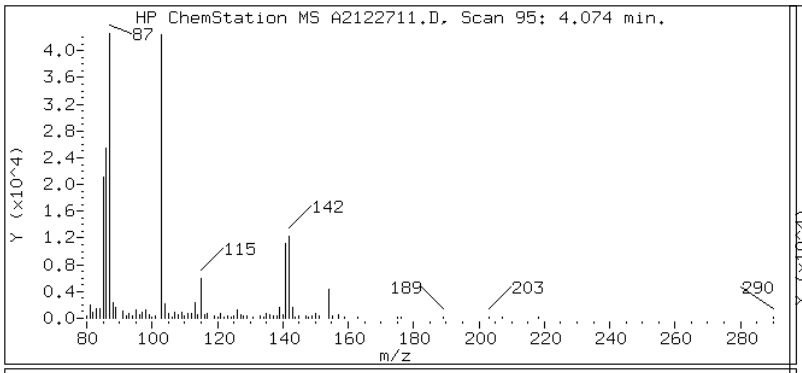
Data File: A2122711.D

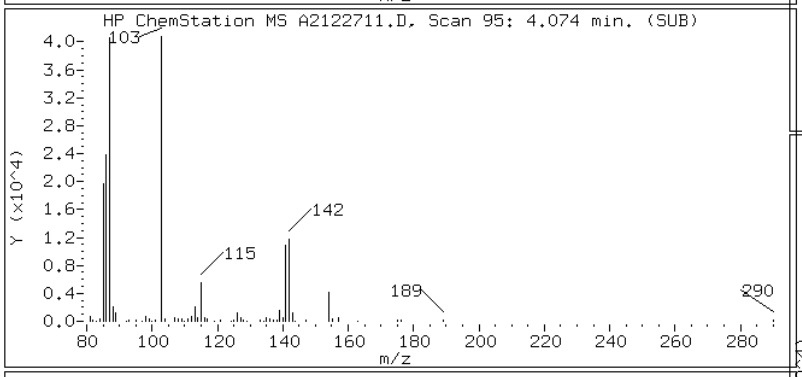
Date: 27-DEC-2012 10:45

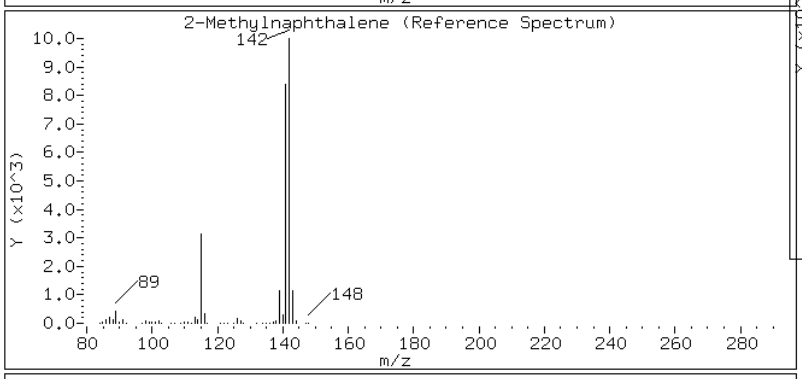
Client ID: CV0511O-CS Instrument: TSMA5973.i

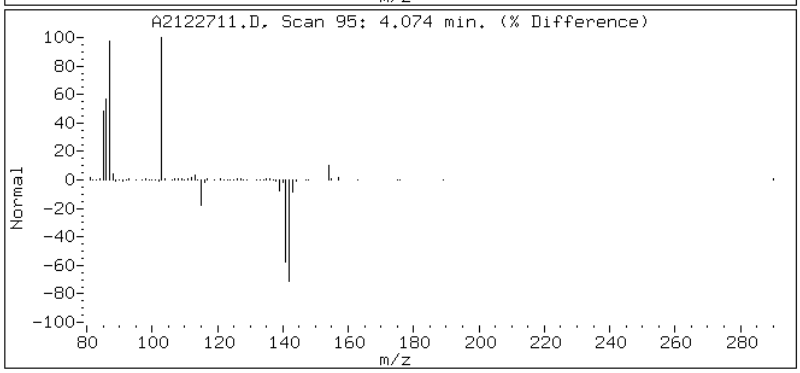
Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

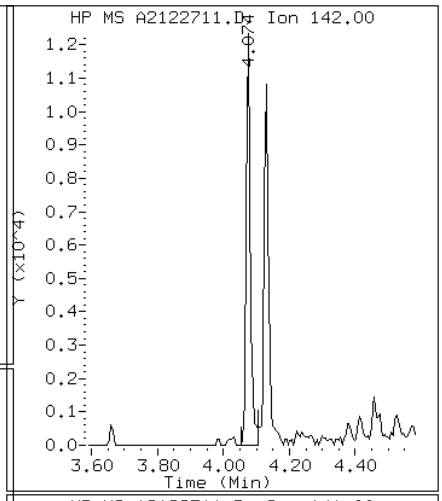
3 2-Methylnaphthalene

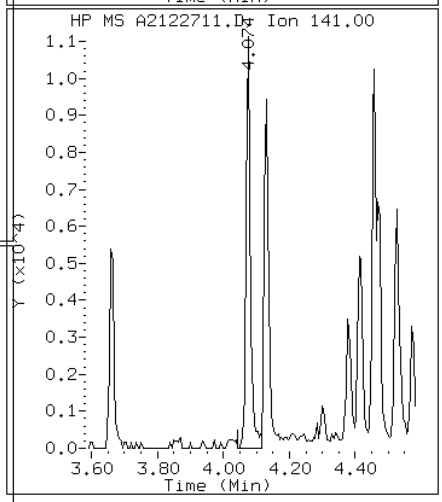












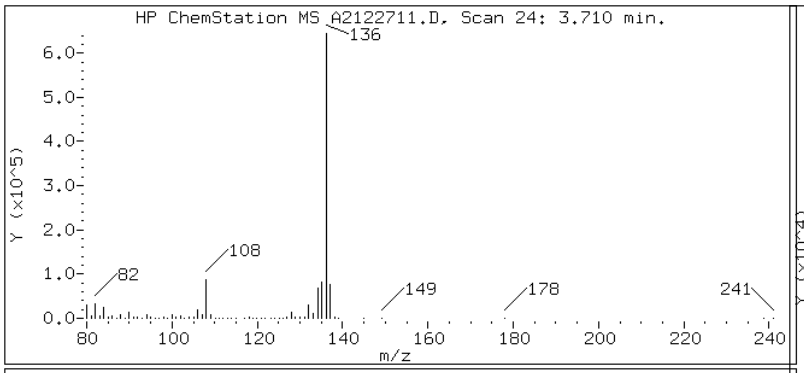
Data File: A2122711.D

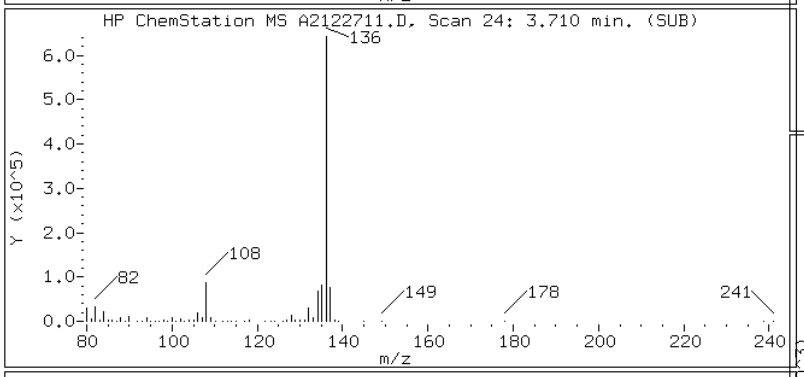
Date: 27-DEC-2012 10:45

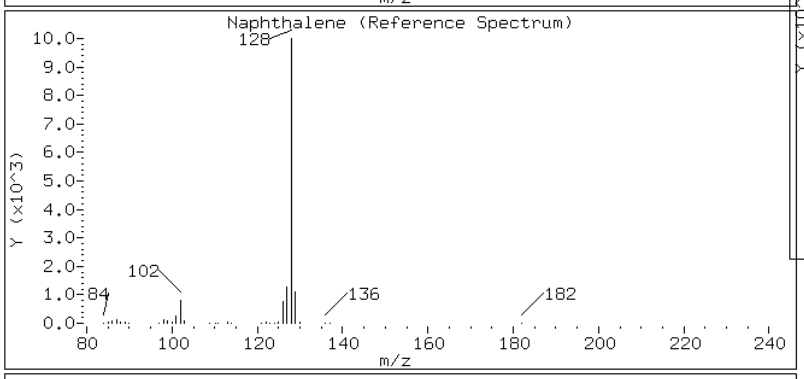
Client ID: CV0511O-CS Instrument: TSMA5973.i

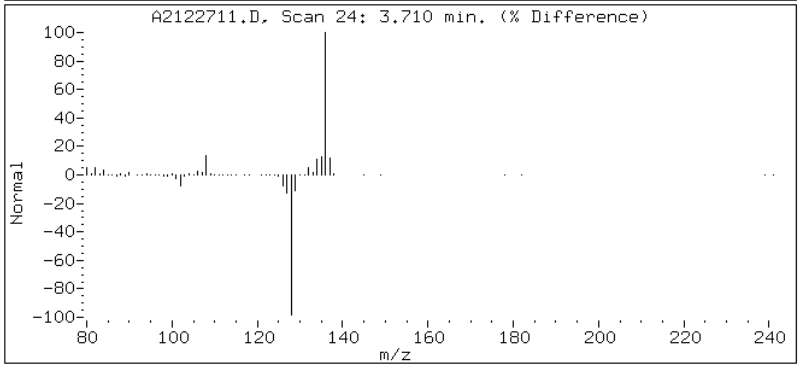
Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

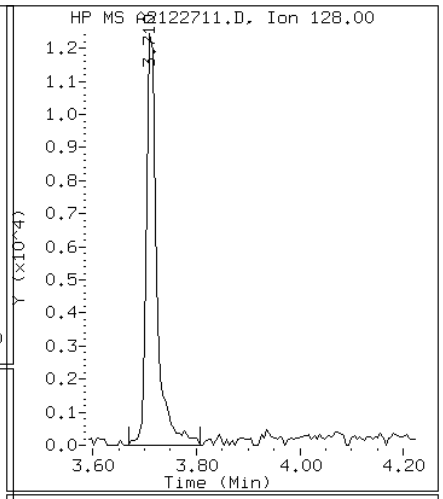
2 Naphthalene

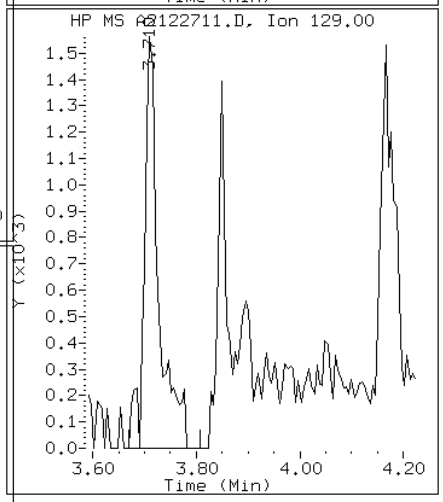












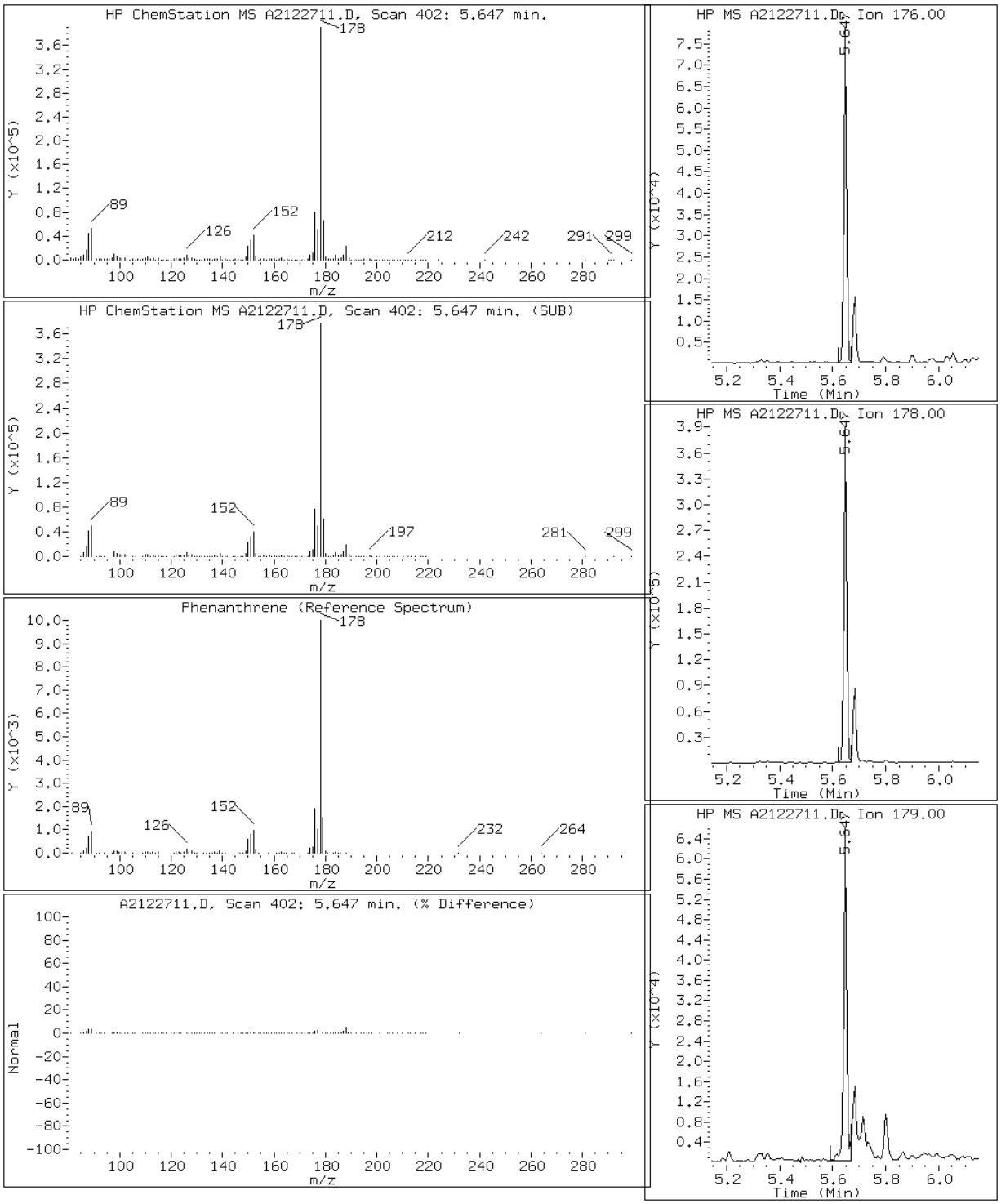
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



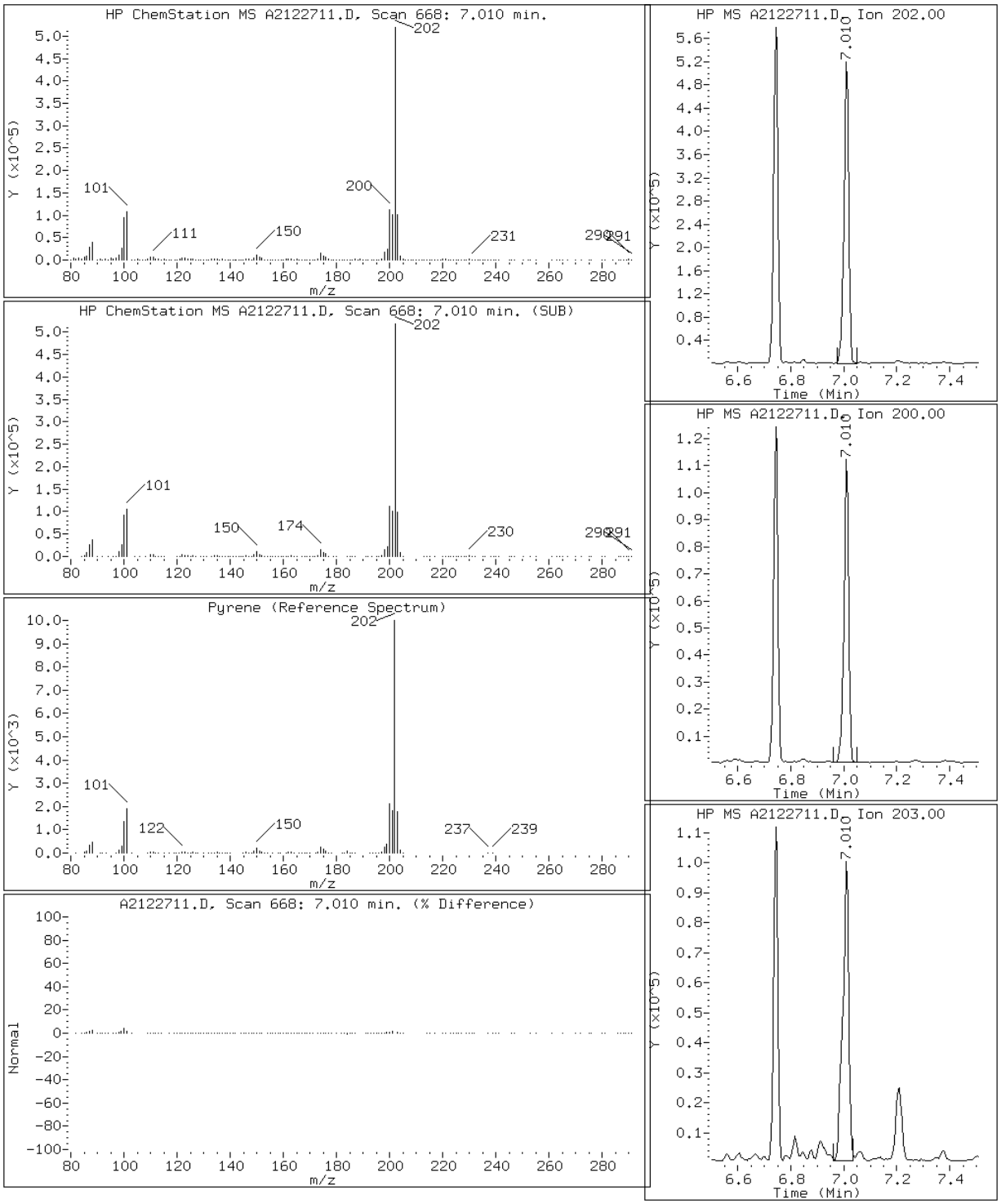
Data File: A2122711.D

Date: 27-DEC-2012 10:45

Client ID: CV0511O-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-48-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511P-CS | Lab Sample ID: 680-85785-49

Matrix: Solid | Lab File ID: A2122726.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:50

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.80(g) | Date Analyzed: 12/27/2012 18:25

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 25

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

% Moisture: 21.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530		210	18
208-96-8	Acenaphthylene	63	J	210	16
120-12-7	Anthracene	1300		210	20
56-55-3	Benzo[a]anthracene	9200	B	210	19
50-32-8	Benzo[a]pyrene	10000	B	210	21
205-99-2	Benzo[b]fluoranthene	16000	B	210	29
191-24-2	Benzo[g,h,i]perylene	2200	B	210	34
207-08-9	Benzo[k]fluoranthene	6200	B	210	20
218-01-9	Chrysene	9200	B	210	23
53-70-3	Dibenz(a,h)anthracene	850	B	210	20
206-44-0	Fluoranthene	17000	B	210	19
86-73-7	Fluorene	340		210	16
193-39-5	Indeno[1,2,3-cd]pyrene	3100	B	210	34
90-12-0	1-Methylnaphthalene	210	U	210	16
91-57-6	2-Methylnaphthalene	17	J	210	16
91-20-3	Naphthalene	210	U	210	16
85-01-8	Phenanthrene	6500		210	14
129-00-0	Pyrene	15000	B	210	16

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\A2122726.D
Lab Smp Id: 680-85785-A-49-A Client Smp ID: CV0511P-CS
Inj Date : 27-DEC-2012 18:25
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-49-A~98123~25~8270D/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: 21
Dil Factor: 25.00000
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	25.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.800	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	3.711	3.705	(1.000)	1420621	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	419	0.01657	13(a)	
4 1-Methylnaphthalene	142	4.136	4.135	(1.115)	388	0.01483	12(a)	
* 5 Acenaphthene-d10	164	4.664	4.663	(1.000)	766897	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.982)	2519	0.06129	50(aQ)	
7 Acenaphthene	153	4.679	4.678	(1.003)	13073	0.51760	420	
8 Fluorene	166	4.981	4.980	(1.068)	9639	0.33402	270	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1202024	40.0000		
10 Phenanthrene	176	5.647	5.646	(1.003)	48679	6.27471	5100	
11 Anthracene	178	5.683	5.687	(1.009)	52978	1.28988	1000	
$ 12 o-Terphenyl	230	Compound Not Detected.						BDL
13 Fluoranthene	202	6.744	6.743	(1.197)	796159	16.6841	14000	
* 14 Chrysene-d12	240	8.742	8.736	(1.000)	1427642	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	7.010	7.004	(0.802)	693405	14.2508	12000	
16 Benzo(a)anthracene	226	8.706	8.700	(0.996)	114736	8.90006	7200	
17 Chrysene	228	8.773	8.772	(1.004)	392603	8.87312	7200	
* 18 Perylene-d12	264	11.237	11.241	(1.000)	1000993	40.0000		
19 Benzo(b)fluoranthene	252	10.556	10.544	(0.939)	468164	15.1660	12000	
20 Benzo(k)fluoranthene	252	10.597	10.596	(0.943)	189199	6.00113	4900	
21 Benzo(a)pyrene	252	11.114	11.113	(0.989)	270552	9.69999	7900	
22 Indeno(1,2,3-cd)pyrene	276	12.984	12.993	(1.155)	85536	3.04297	2500	
23 Dibenzo(a,h)anthracene	278	13.020	13.039	(1.159)	23487	0.82474	670	
24 Benzo(g,h,i)perylene	276	13.430	13.444	(1.195)	59029	2.11971	1700	

QC Flag Legend

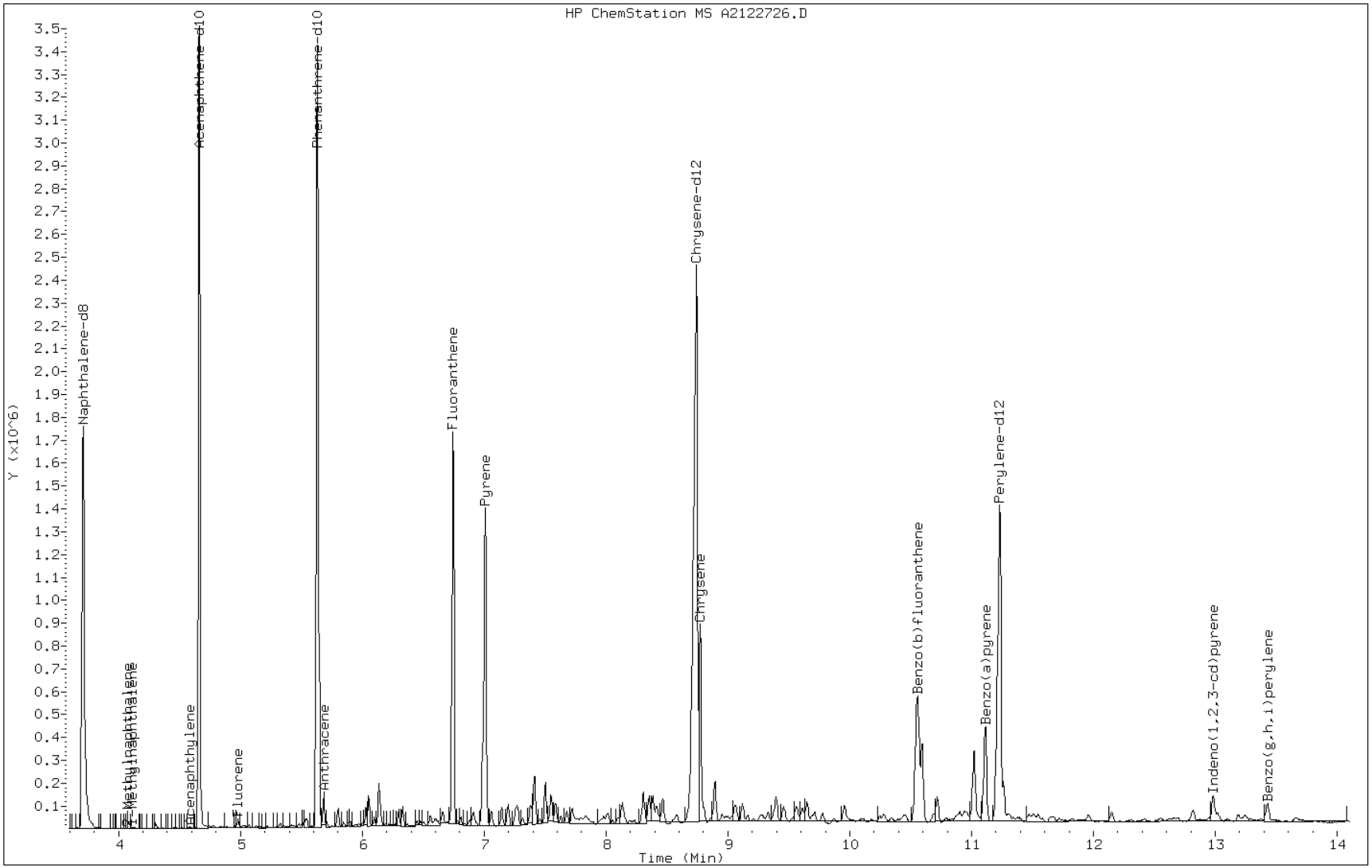
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW



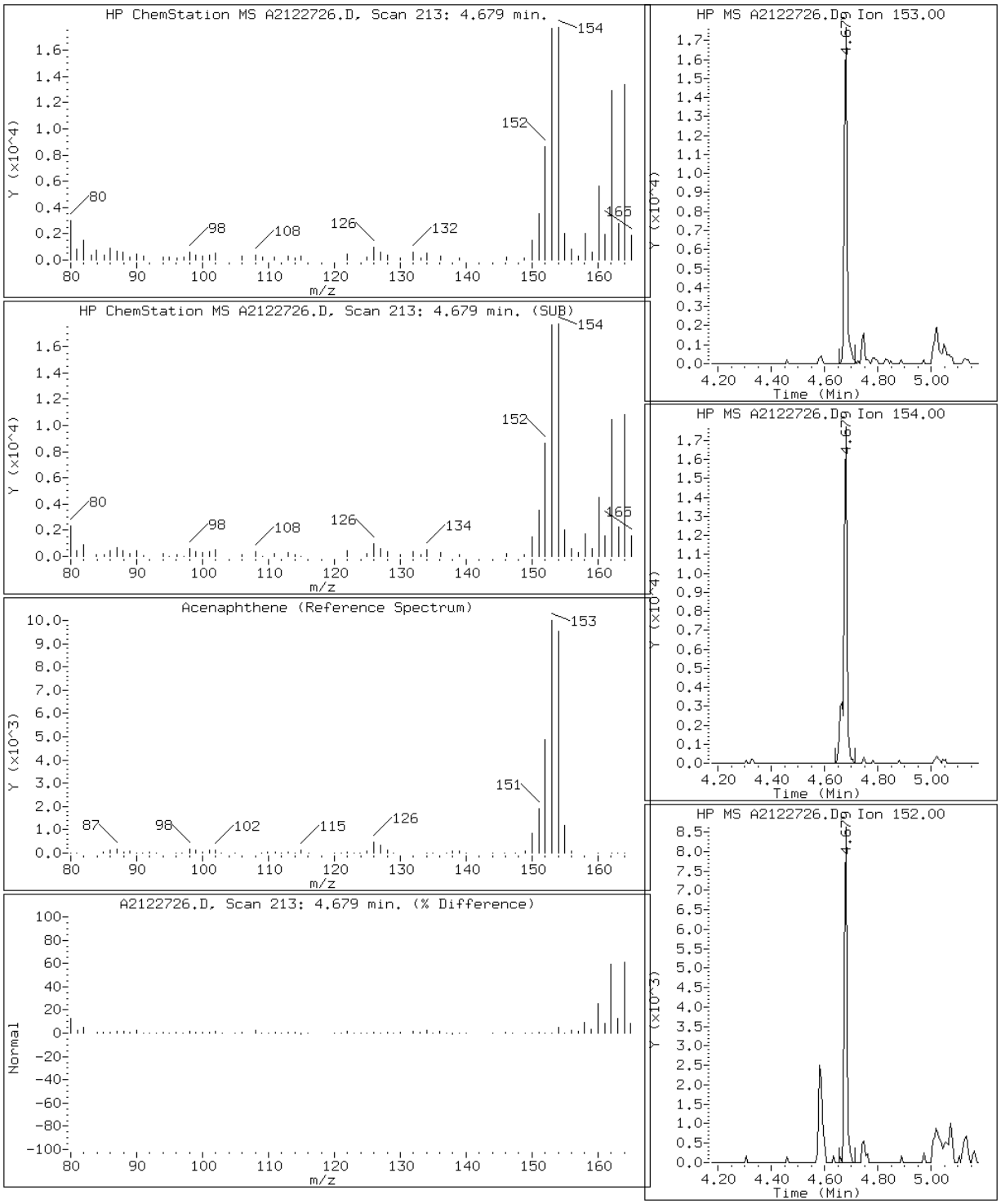
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

7 Acenaphthene



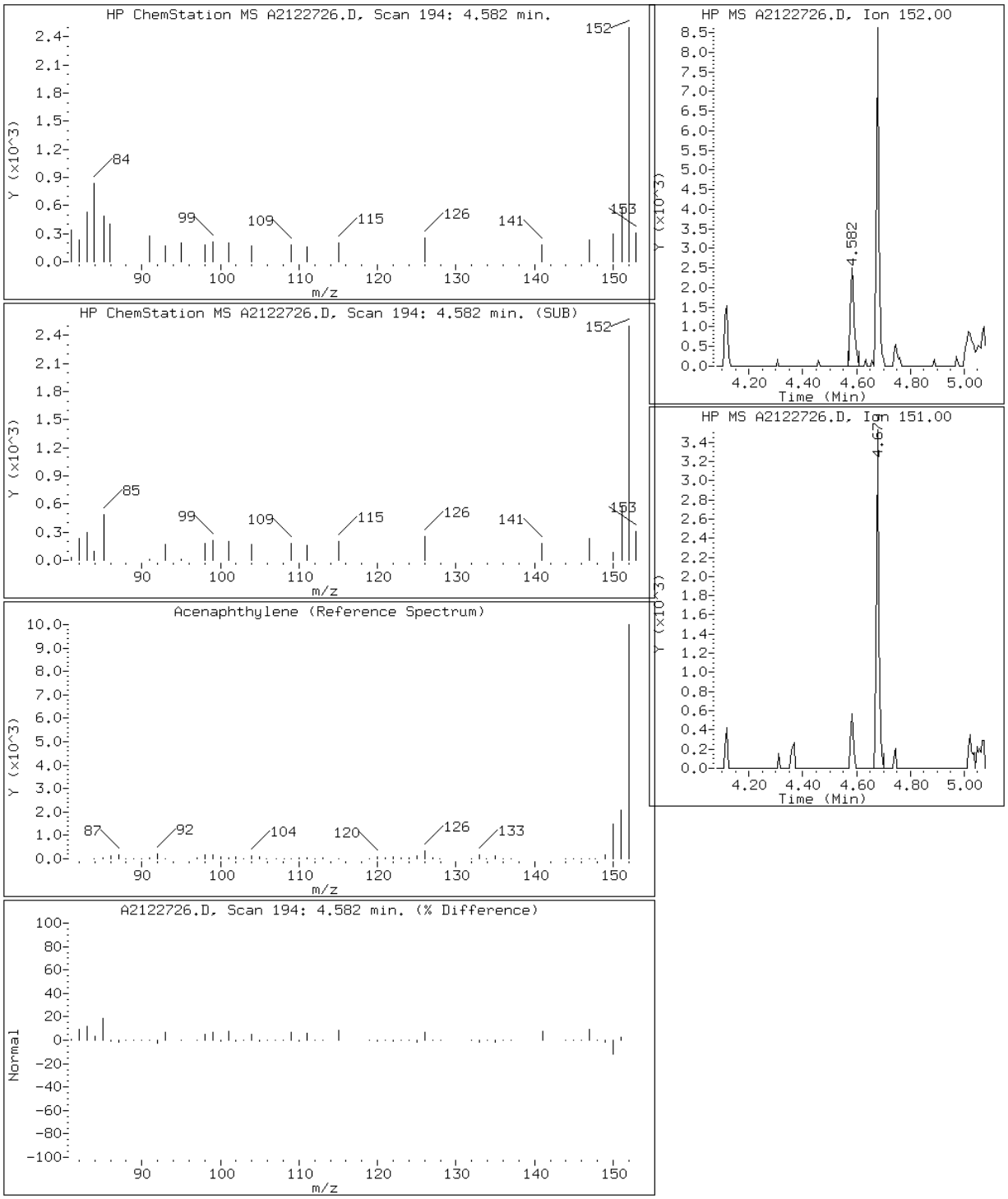
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

6 Acenaphthylene



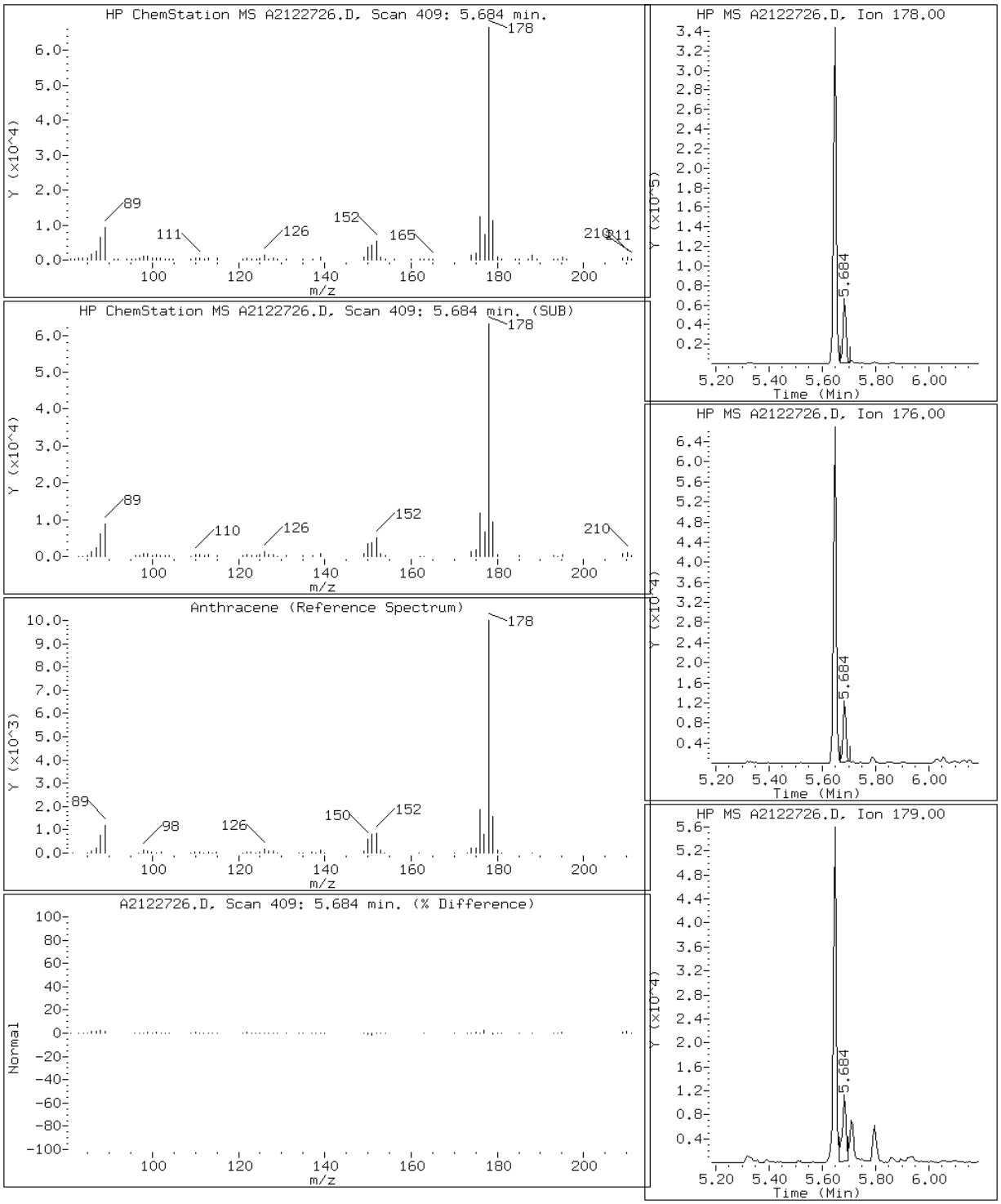
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

11 Anthracene



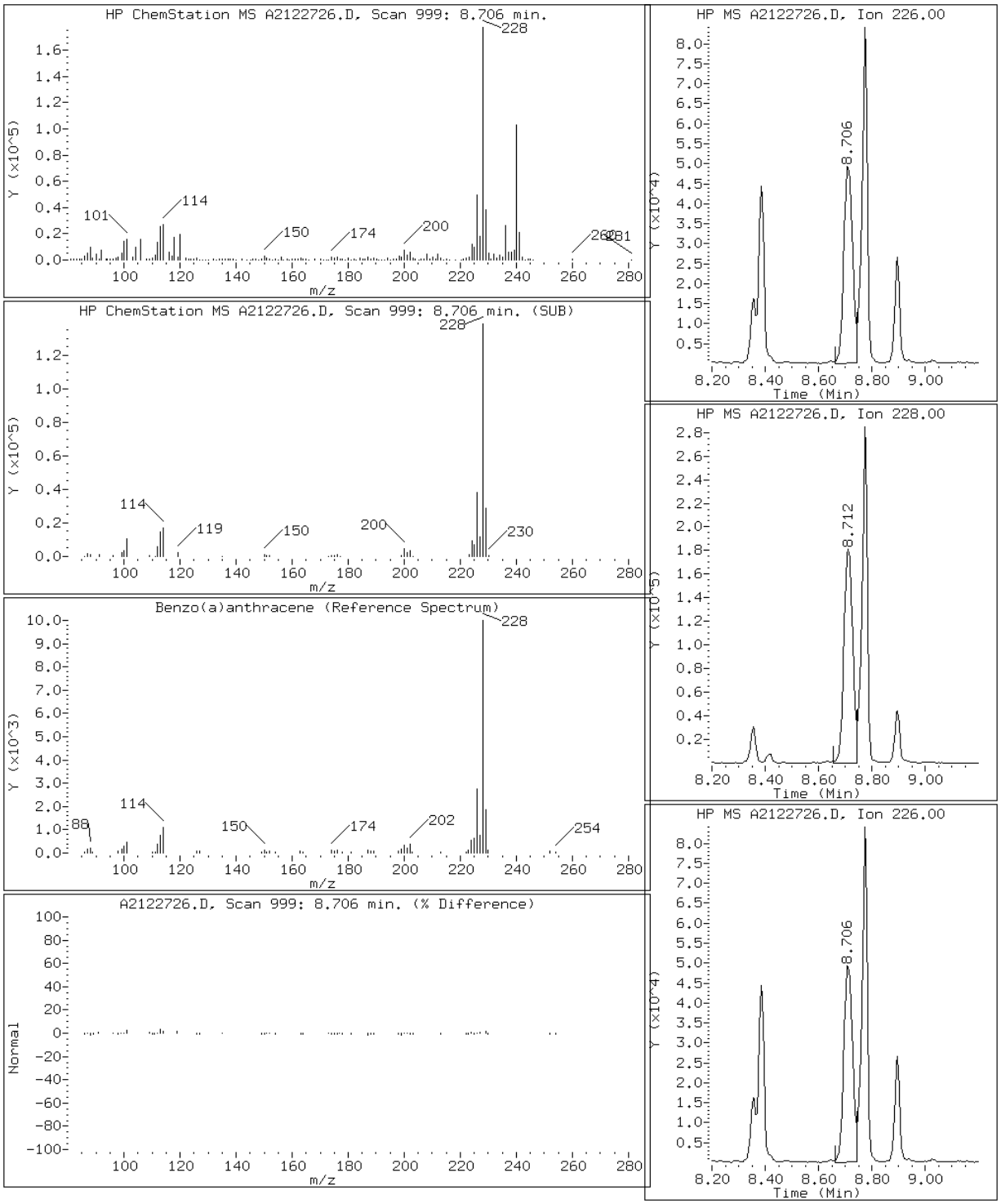
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

16 Benzo(a)anthracene



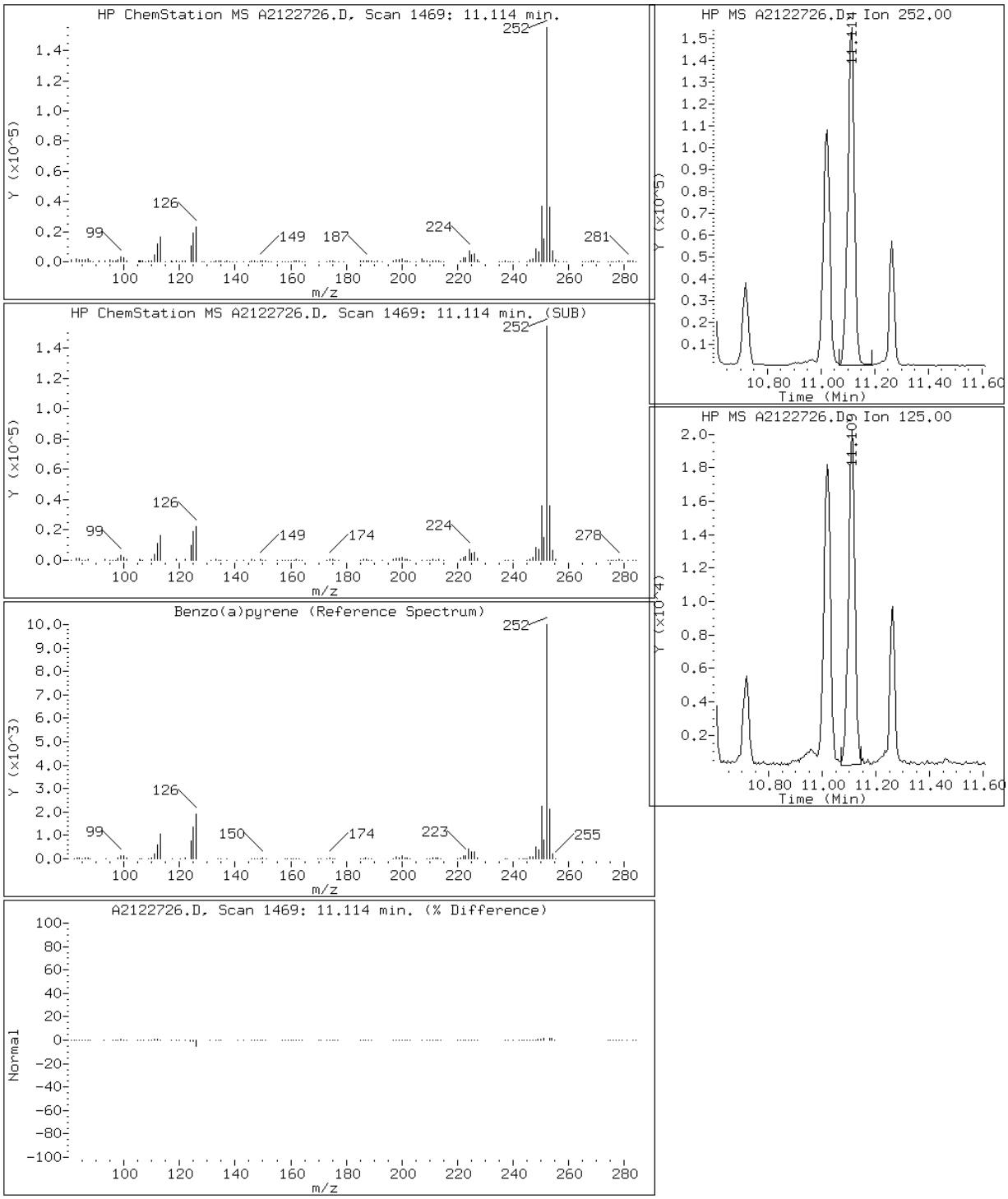
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

21 Benzo(a)pyrene



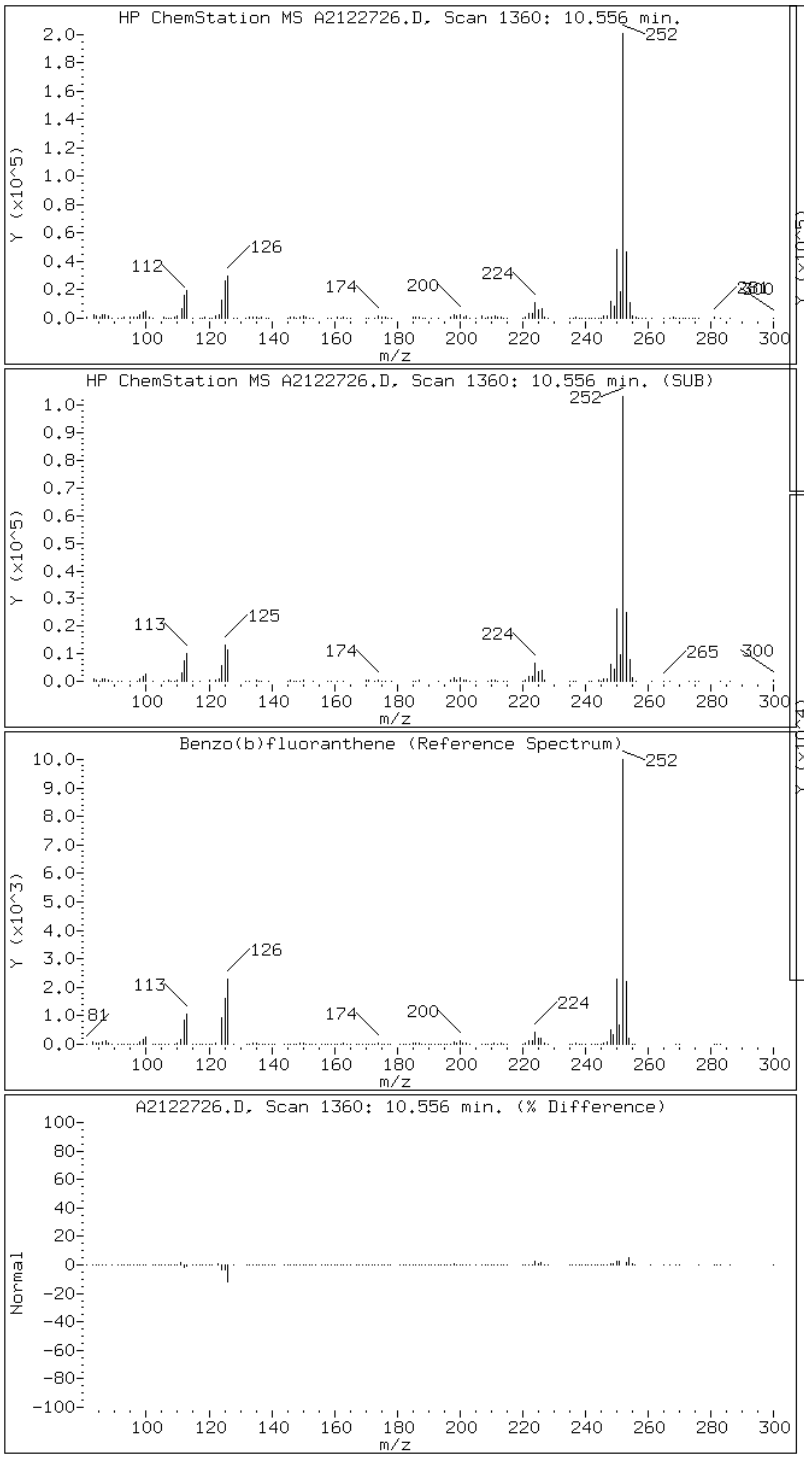
Data File: A2122726.D

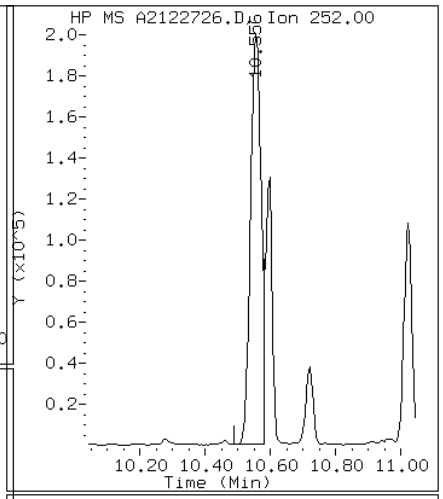
Date: 27-DEC-2012 18:25

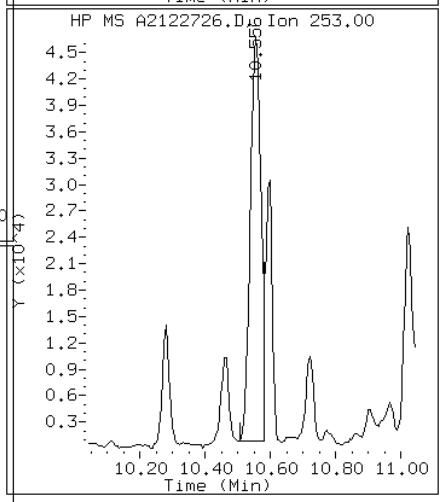
Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

19 Benzo(b)fluoranthene







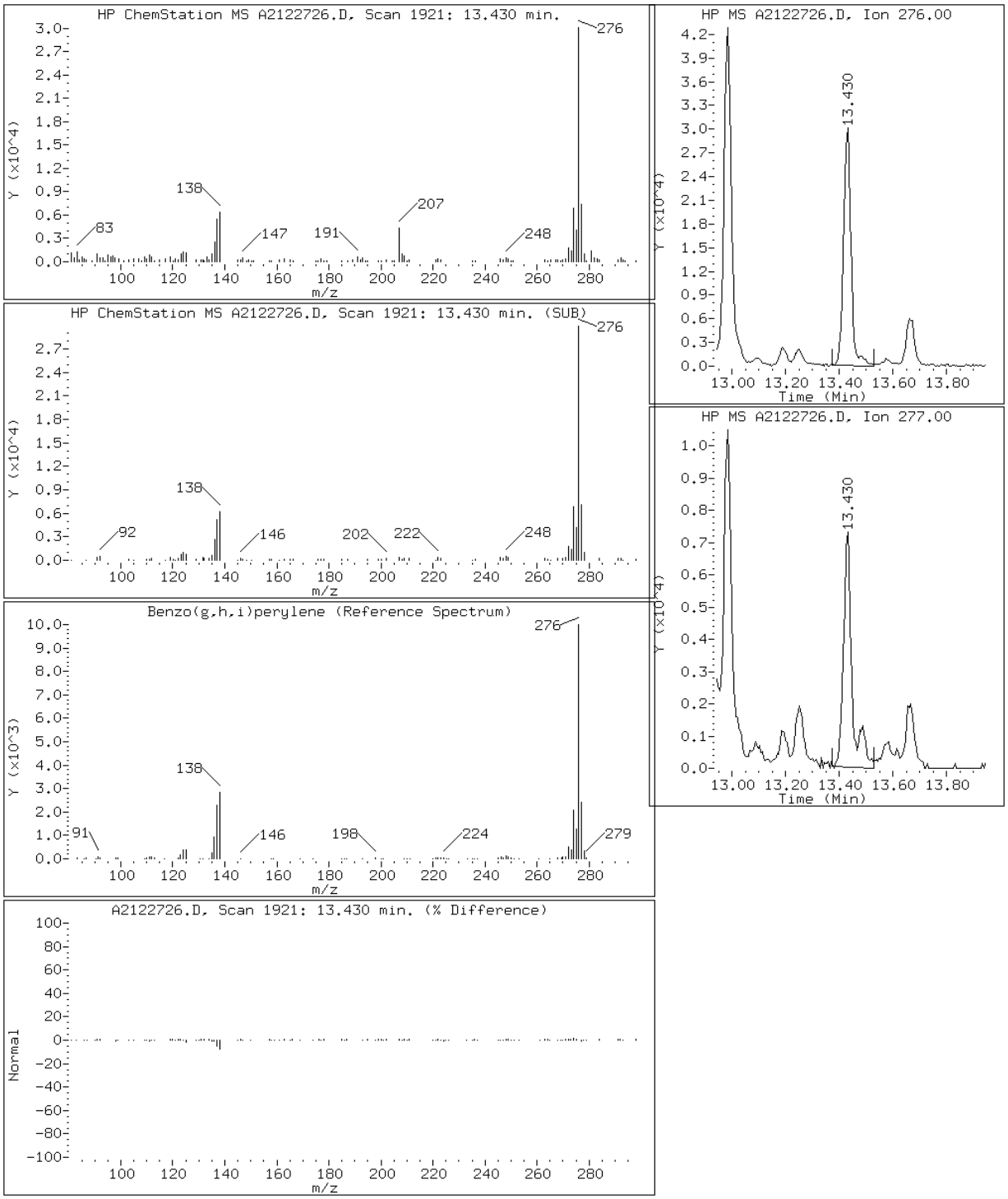
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



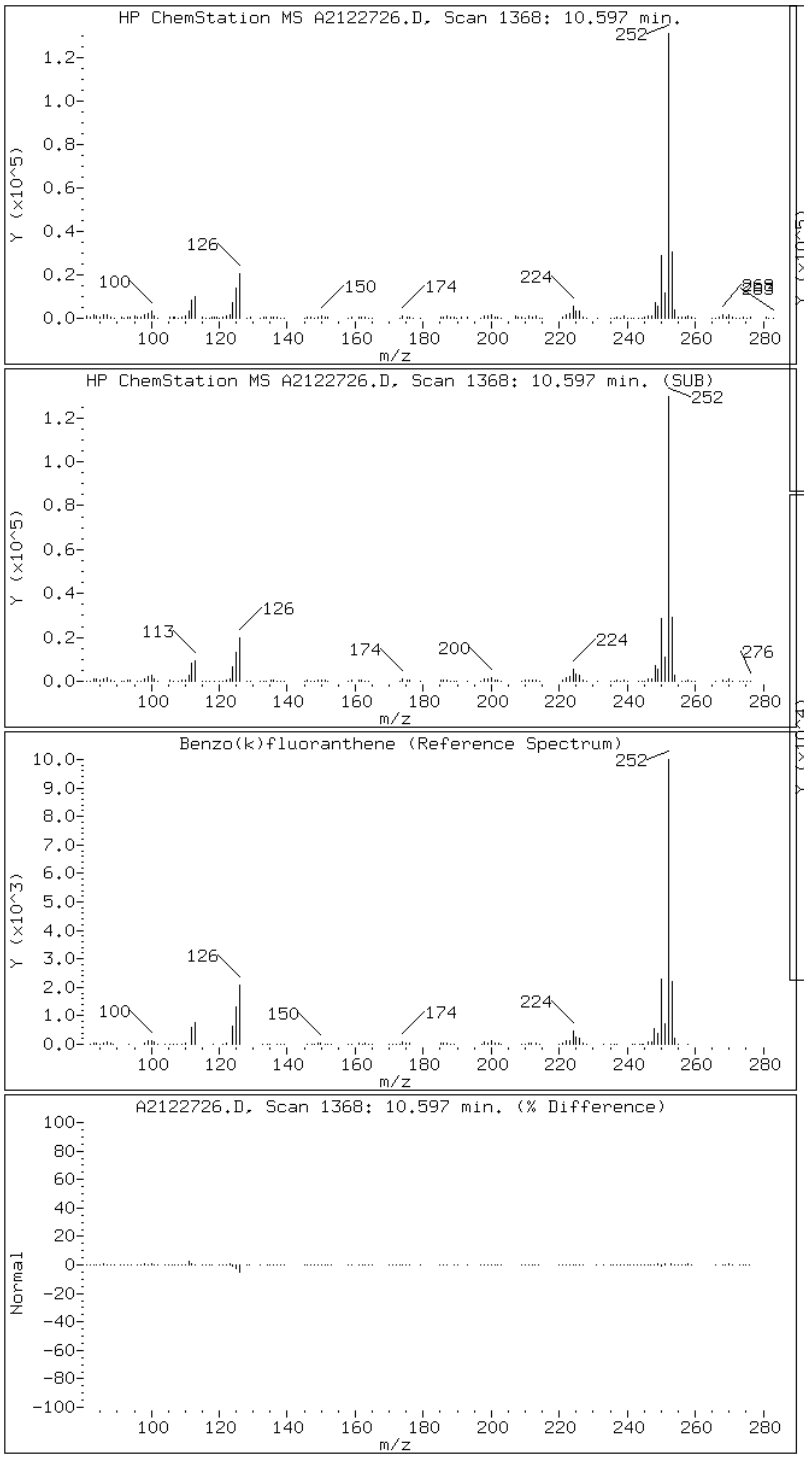
Data File: A2122726.D

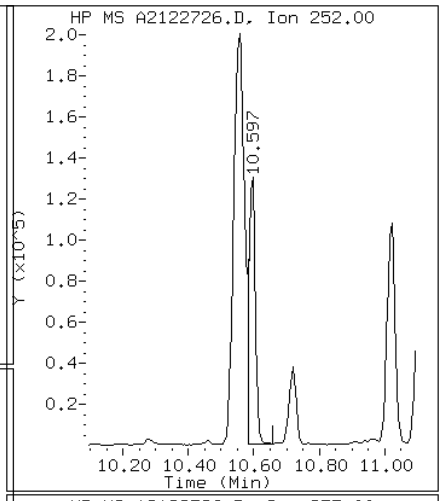
Date: 27-DEC-2012 18:25

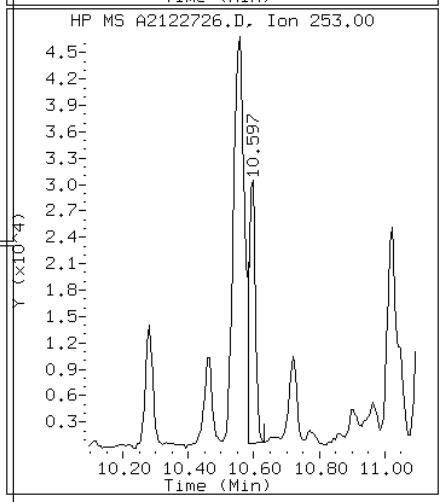
Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

20 Benzo(k)fluoranthene







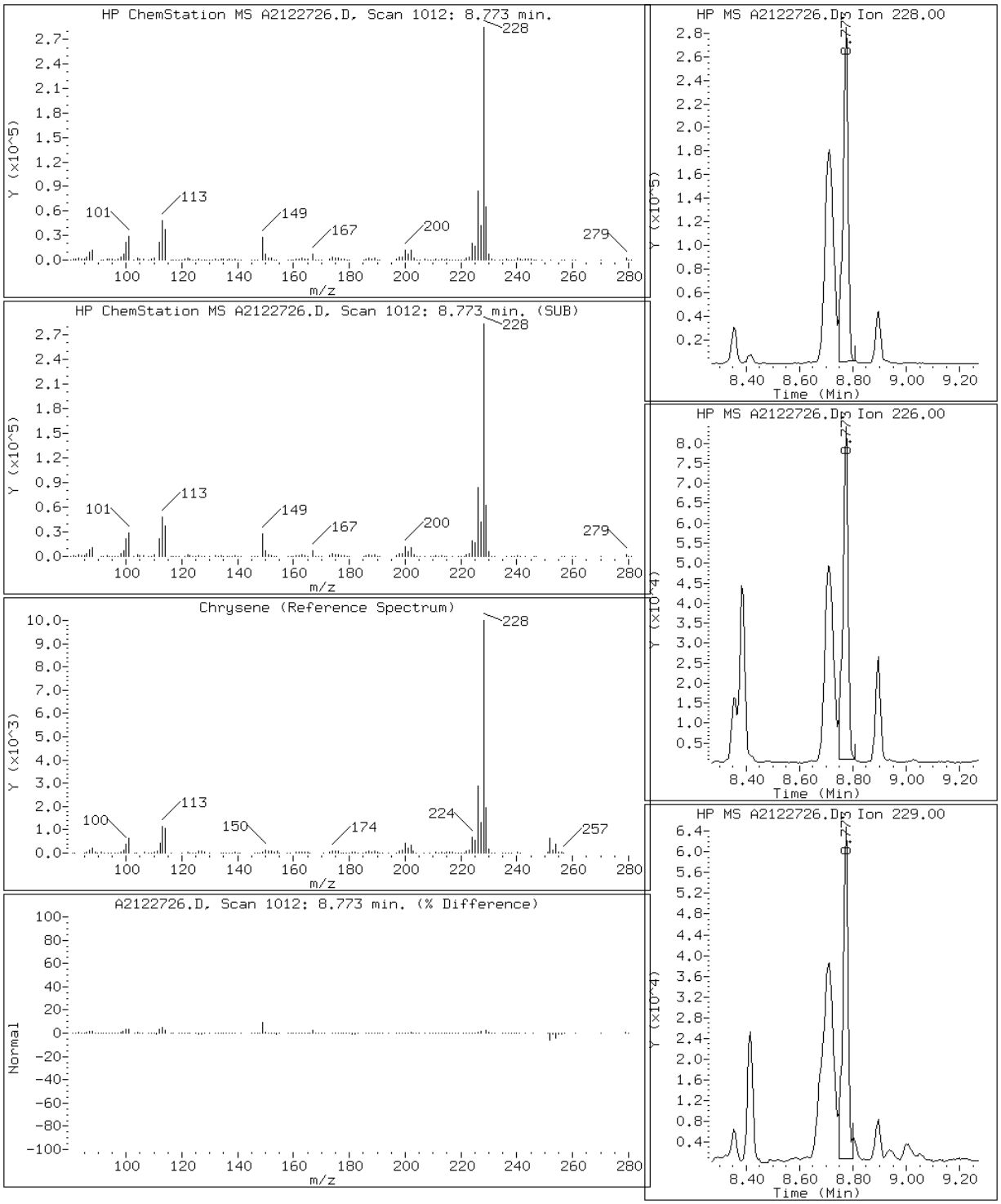
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

17 Chrysene



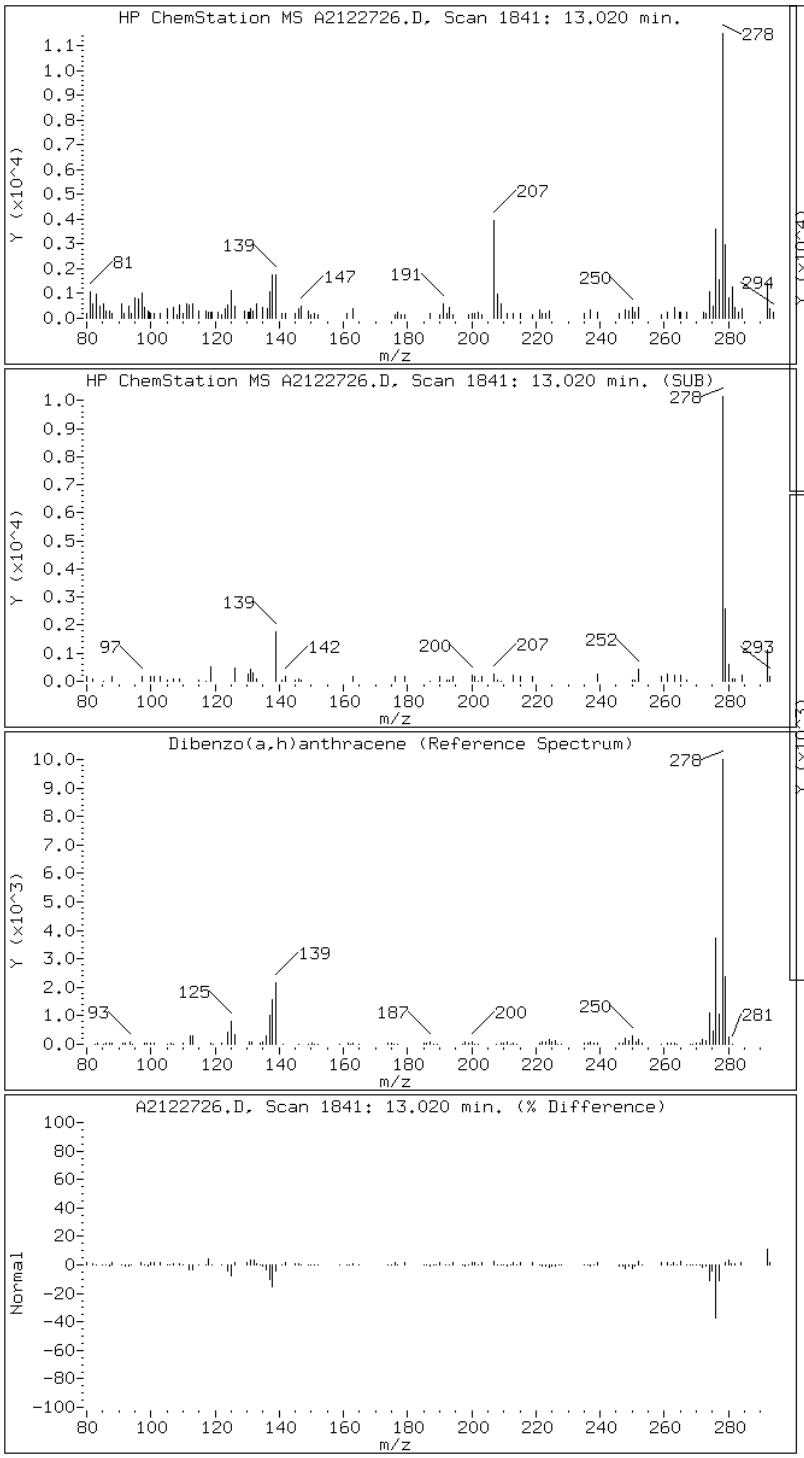
Data File: A2122726.D

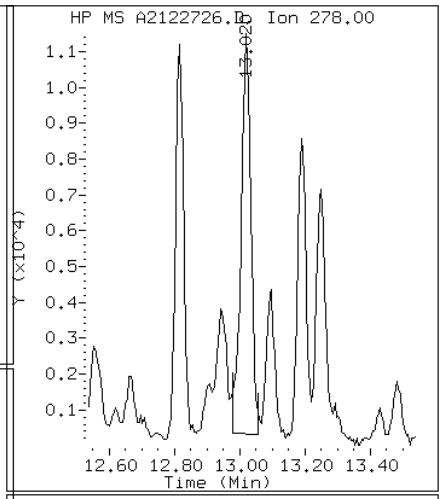
Date: 27-DEC-2012 18:25

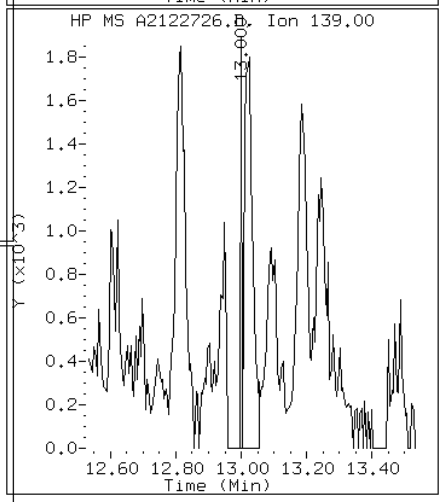
Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene







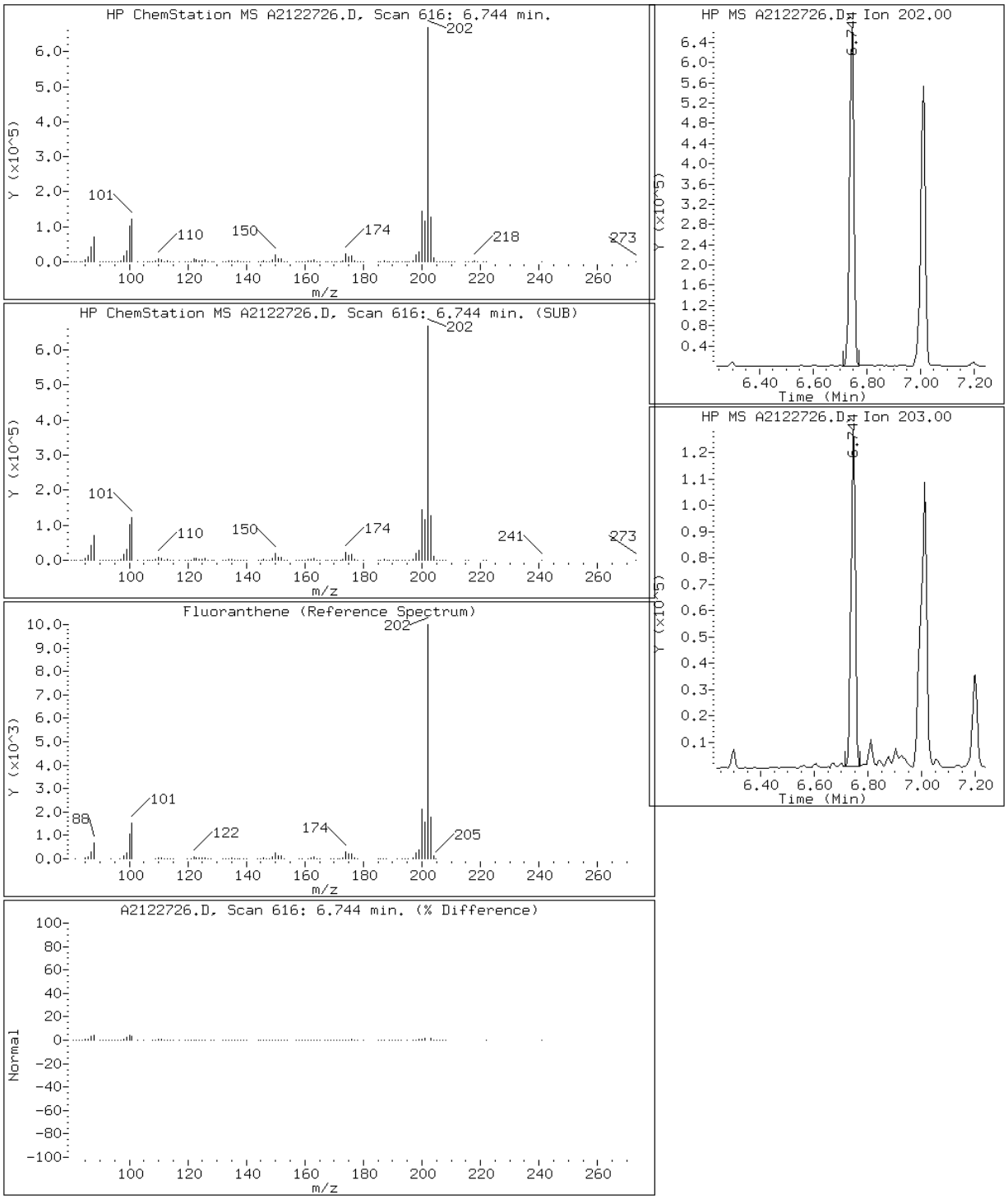
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

13 Fluoranthene



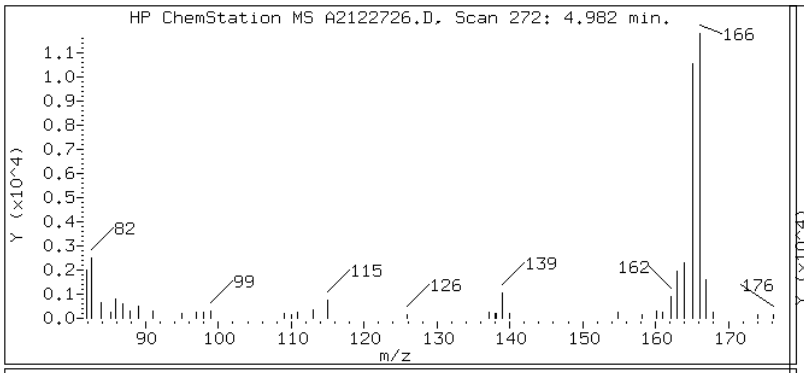
Data File: A2122726.D

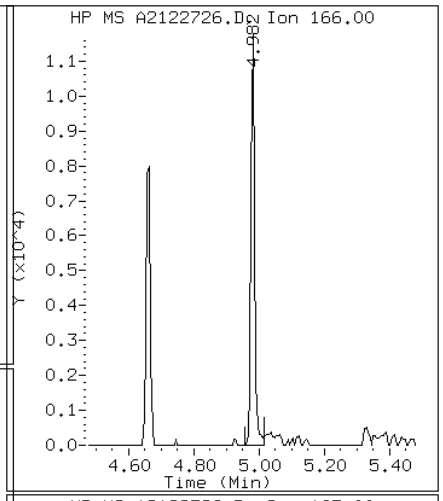
Date: 27-DEC-2012 18:25

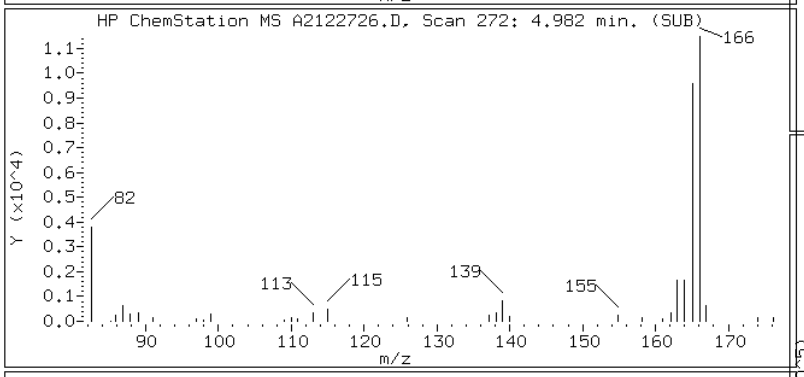
Client ID: CV0511P-CS Instrument: TSMA5973.i

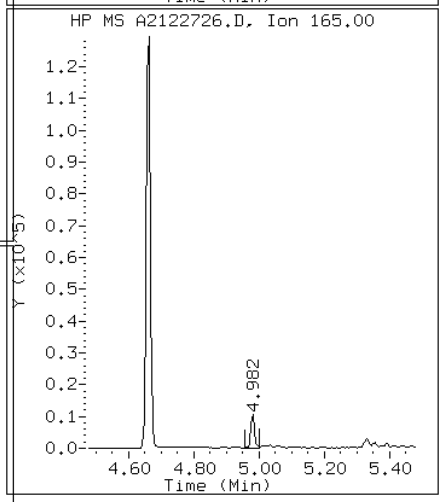
Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

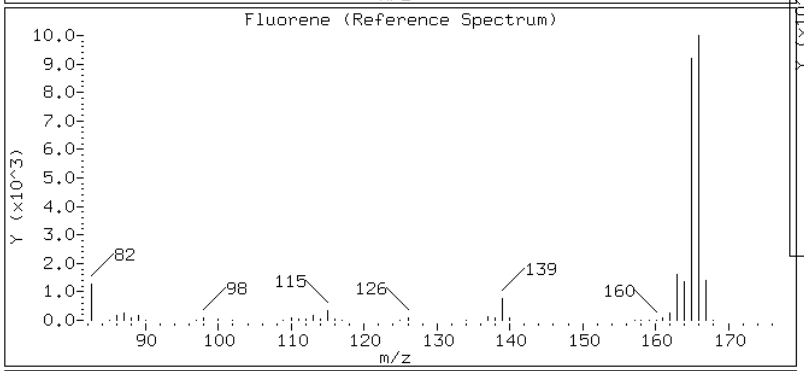
8 Fluorene

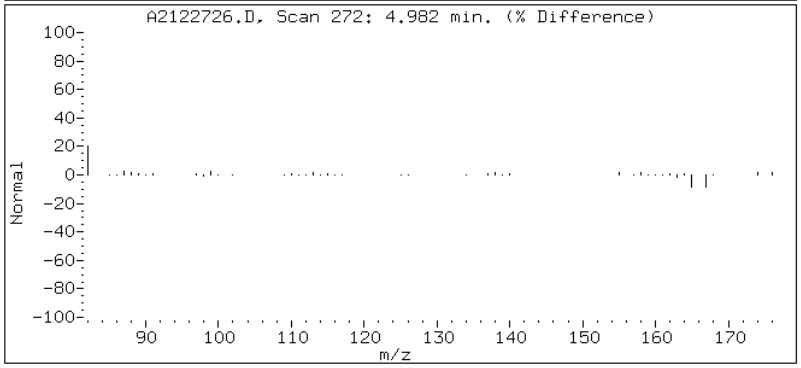












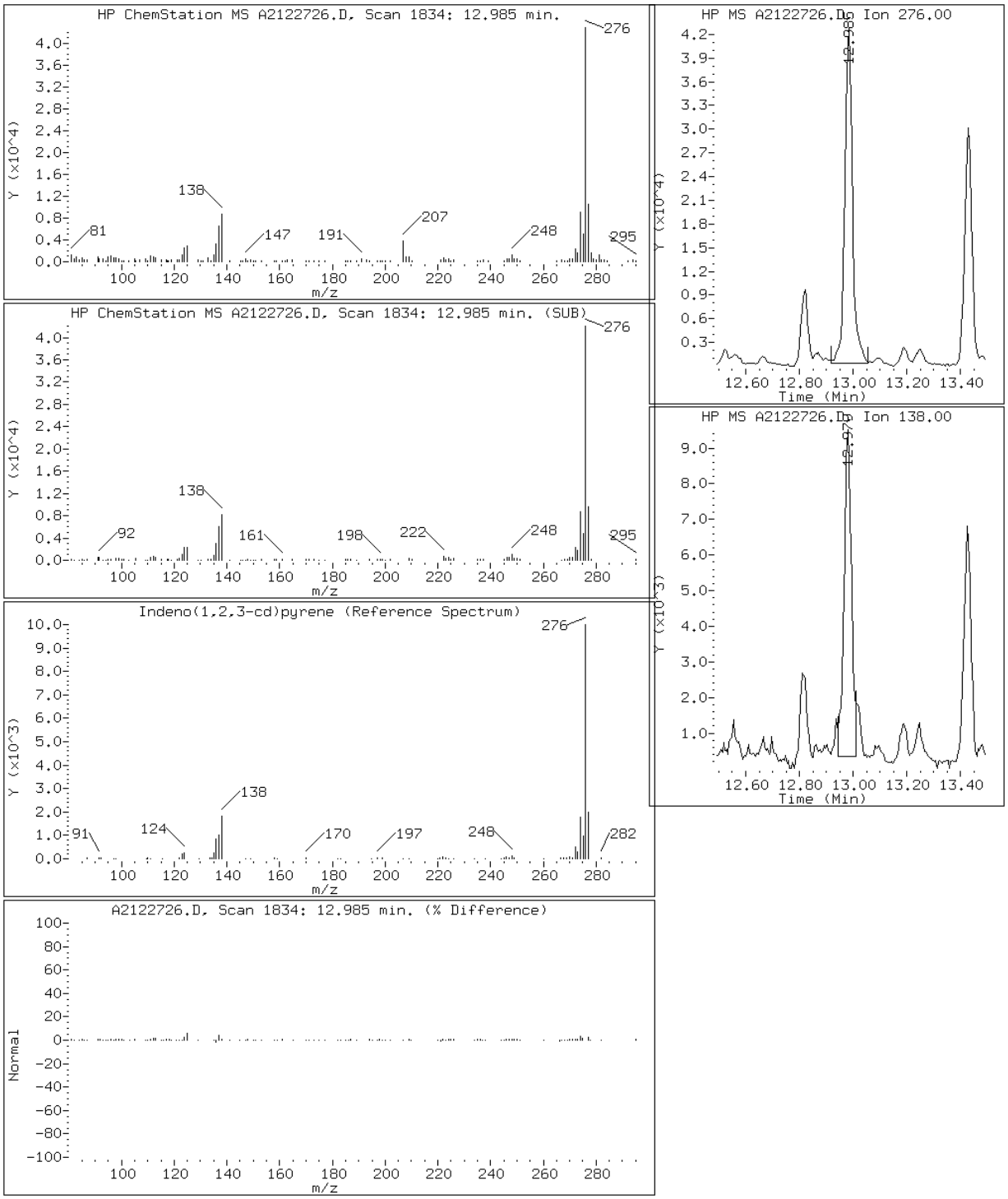
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

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



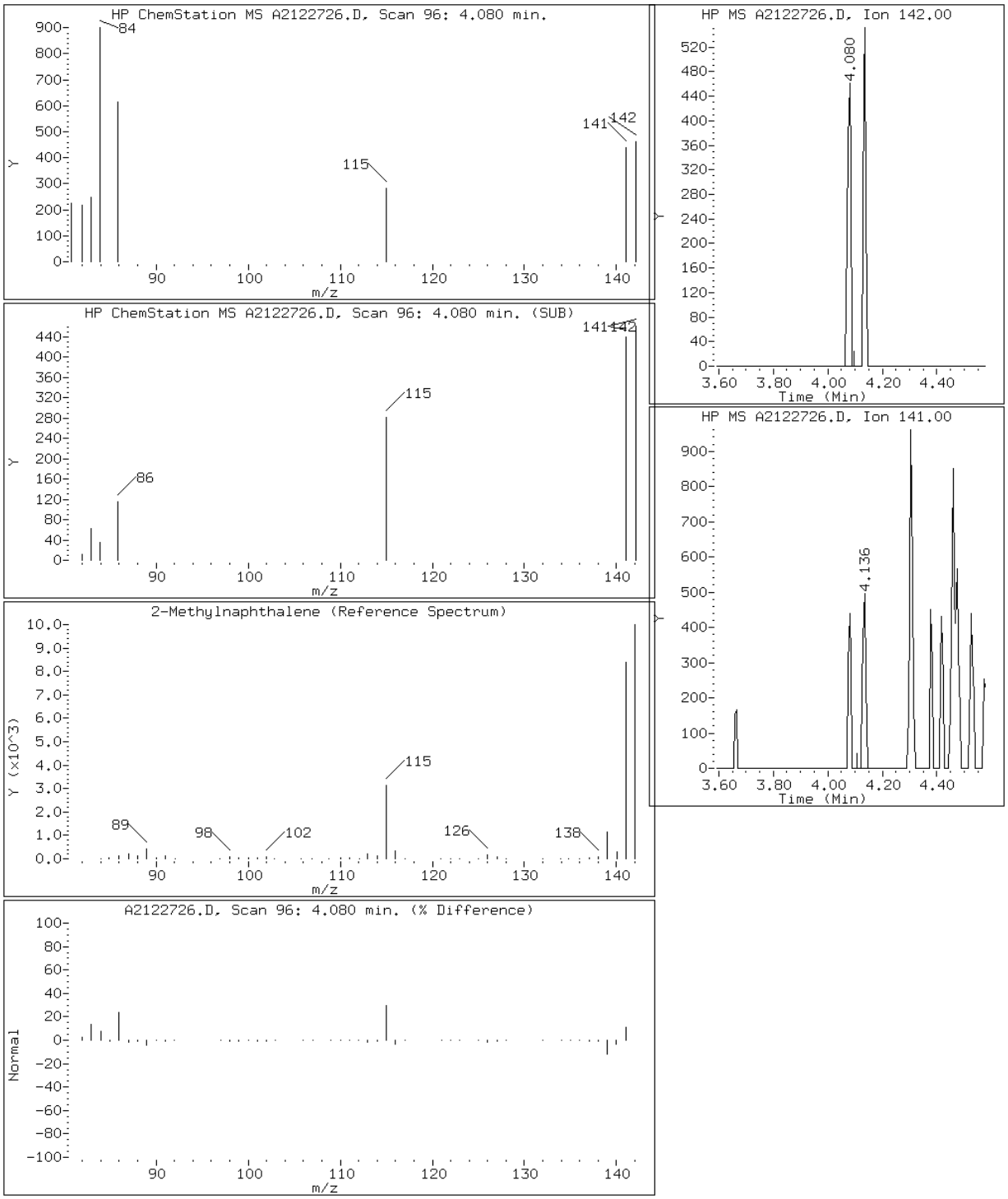
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

3 2-Methylnaphthalene



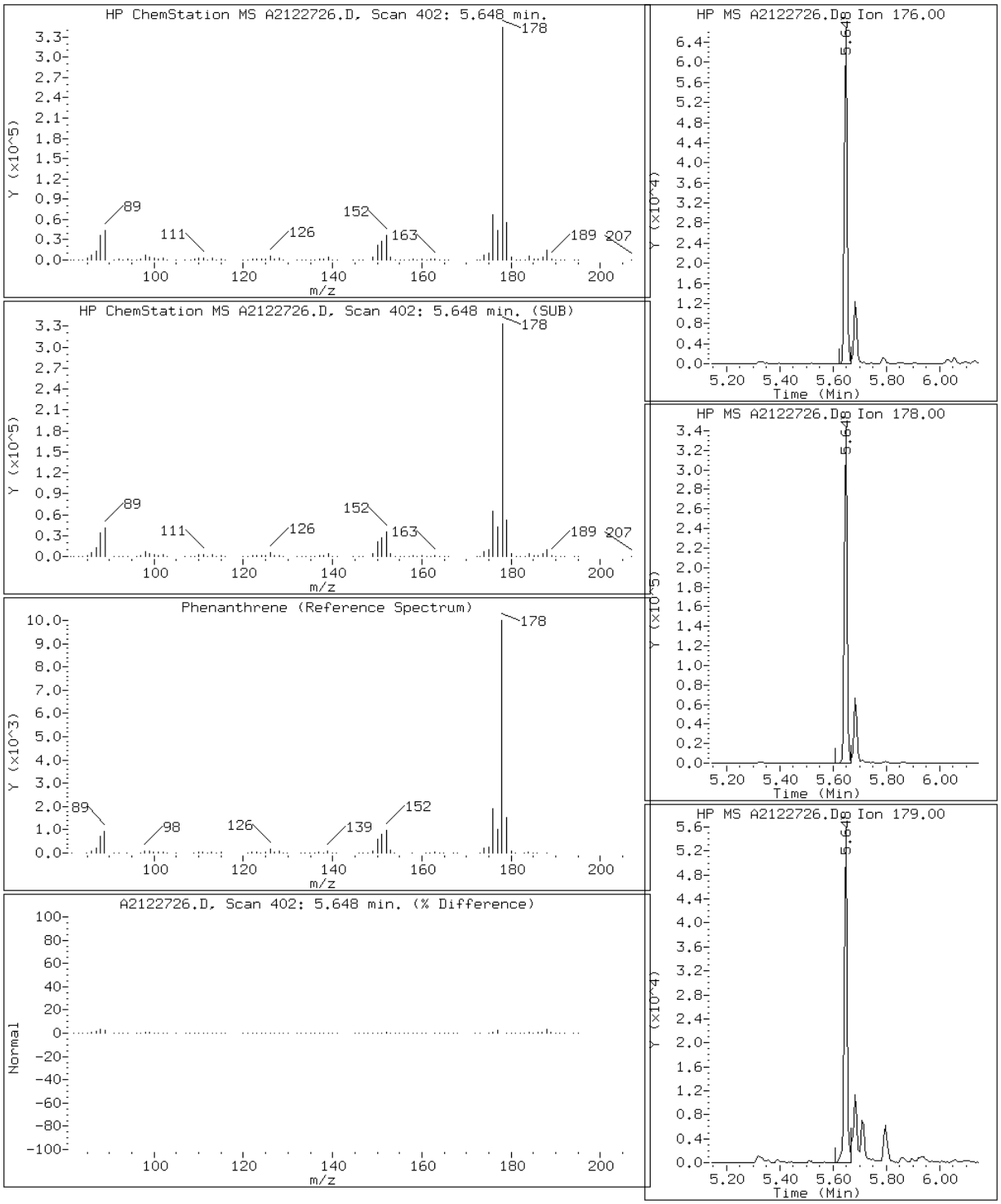
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

10 Phenanthrene



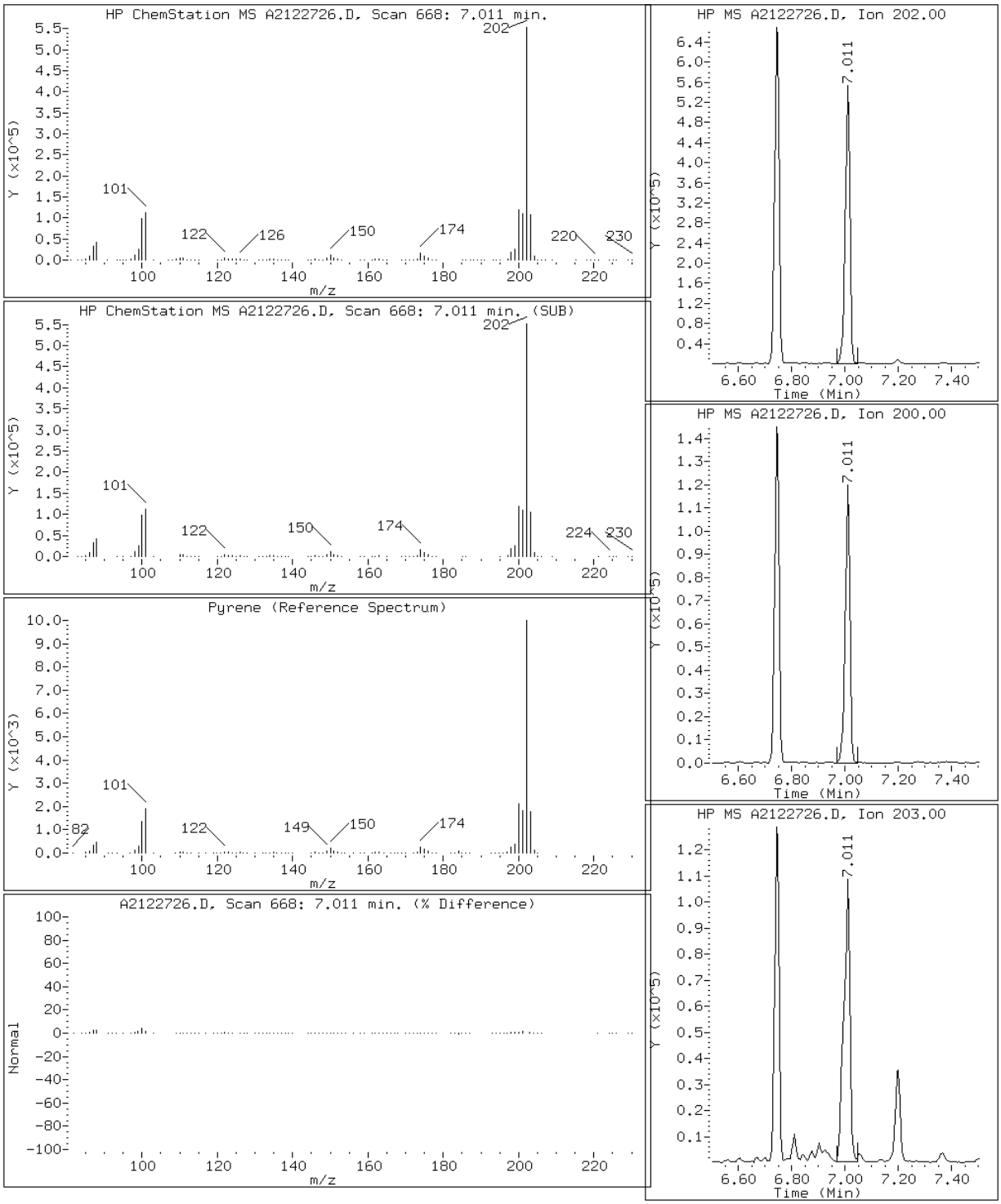
Data File: A2122726.D

Date: 27-DEC-2012 18:25

Client ID: CV0511P-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-49-A~98123~25~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511Q-CS | Lab Sample ID: 680-85785-50

Matrix: Solid | Lab File ID: A2122727.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 13:55

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.79(g) | Date Analyzed: 12/27/2012 18:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 25

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

% Moisture: 25.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1400		220	19
208-96-8	Acenaphthylene	62	J	220	17
120-12-7	Anthracene	2400		220	21
56-55-3	Benzo[a]anthracene	9100	B	220	20
50-32-8	Benzo[a]pyrene	8800	B	220	22
205-99-2	Benzo[b]fluoranthene	14000	B	220	31
191-24-2	Benzo[g,h,i]perylene	1800	B	220	36
207-08-9	Benzo[k]fluoranthene	5800	B	220	21
218-01-9	Chrysene	8700	B	220	24
53-70-3	Dibenz(a,h)anthracene	740	B	220	21
206-44-0	Fluoranthene	19000	B	220	19
86-73-7	Fluorene	900		220	17
193-39-5	Indeno[1,2,3-cd]pyrene	2700	B	220	36
90-12-0	1-Methylnaphthalene	43	J	220	17
91-57-6	2-Methylnaphthalene	38	J	220	17
91-20-3	Naphthalene	220	U	220	17
85-01-8	Phenanthrene	11000		220	14
129-00-0	Pyrene	15000	B	220	17

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\A2122727.D
Lab Smp Id: 680-85785-A-50-A Client Smp ID: CV0511Q-CS
Inj Date : 27-DEC-2012 18:45
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-50-A~98123~25~8270D/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: 22
Dil Factor: 25.00000
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	25.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.790	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	3.706	3.705	(1.000)	1397352	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	4.075	4.079	(1.100)	881	0.03542	29(a)	
4 1-Methylnaphthalene	142	4.131	4.135	(1.115)	1013	0.03935	32(a)	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	740785	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	2275	0.05730	46(aQ)	
7 Acenaphthene	153	4.680	4.678	(1.004)	30854	1.27330	1000	
8 Fluorene	166	4.982	4.980	(1.069)	23130	0.82978	670	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1169028	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	76931	10.3087	8400	
11 Anthracene	178	5.684	5.687	(1.009)	87135	2.18140	1800	
$ 12 o-Terphenyl	230	Compound Not Detected.						BDL
13 Fluoranthene	202	6.744	6.743	(1.197)	802097	17.2830	14000	
* 14 Chrysene-d12	240	8.742	8.736	(1.000)	1360925	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	7.011	7.004	(0.802)	663604	14.3069	12000	
16 Benzo(a)anthracene	226	8.707	8.700	(0.996)	103511	8.41663	6800	
17 Chrysene	228	8.773	8.772	(1.004)	338898	8.03483	6500	
* 18 Perylene-d12	264	11.232	11.241	(1.000)	955666	40.0000		
19 Benzo(b)fluoranthene	252	10.551	10.544	(0.939)	370288	12.5643	10000	
20 Benzo(k)fluoranthene	252	10.592	10.596	(0.943)	161610	5.36917	4400	
21 Benzo(a)pyrene	252	11.109	11.113	(0.989)	216879	8.14448	6600	
22 Indeno(1,2,3-cd)pyrene	276	12.985	12.993	(1.156)	67067	2.49910	2000	
23 Dibenzo(a,h)anthracene	278	13.015	13.039	(1.159)	18612	0.68456	560	
24 Benzo(g,h,i)perylene	276	13.430	13.444	(1.196)	44435	1.67133	1400	

QC Flag Legend

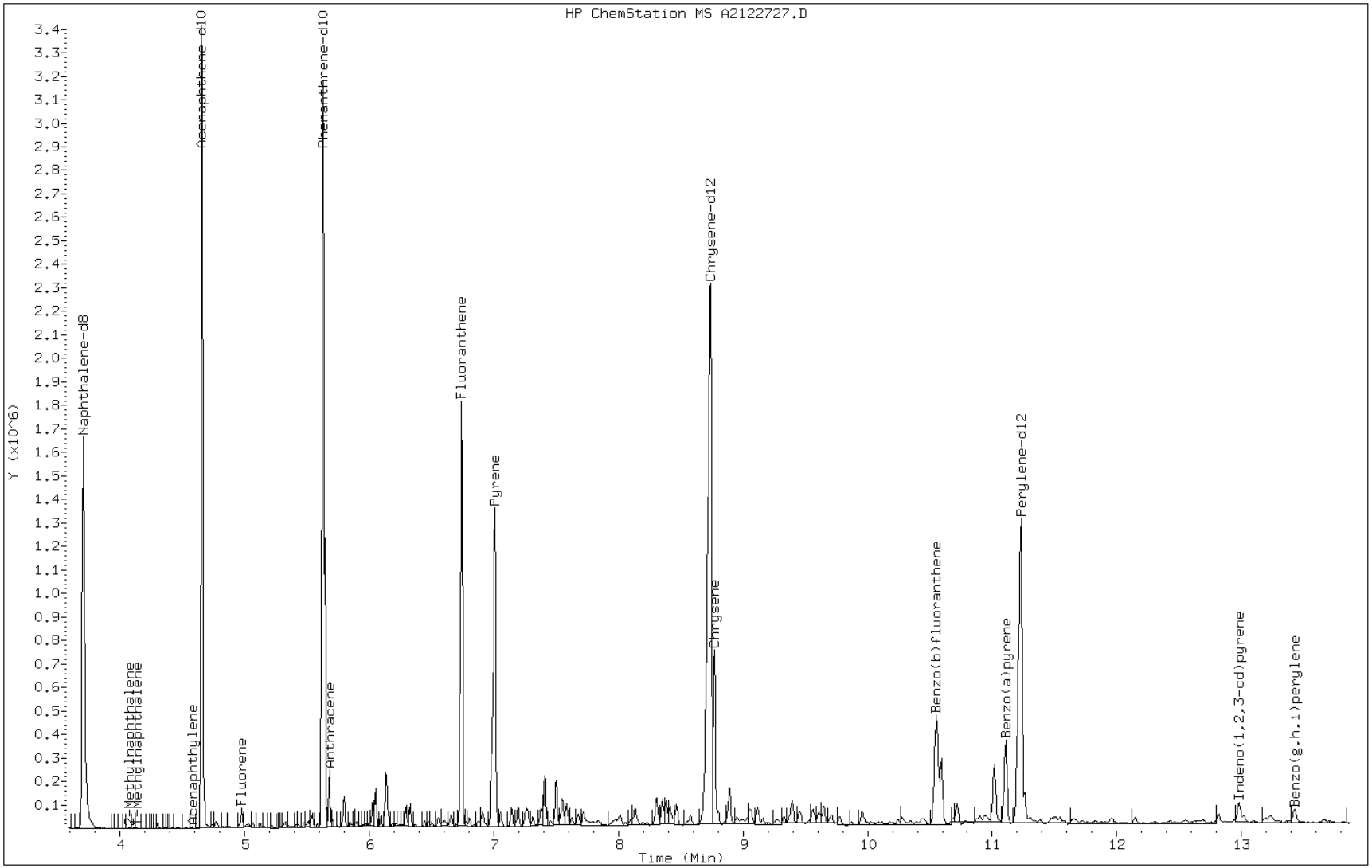
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW



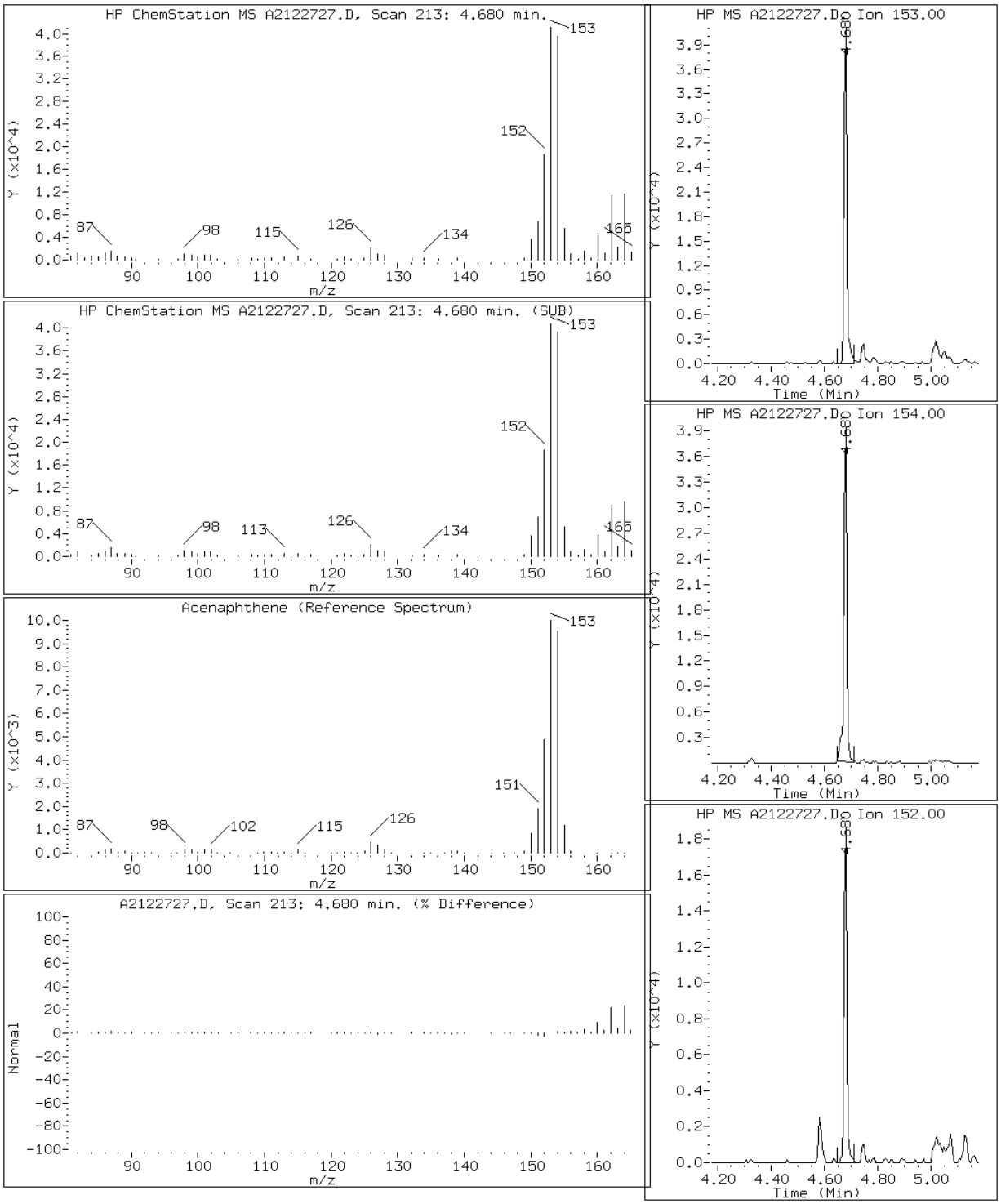
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

7 Acenaphthene



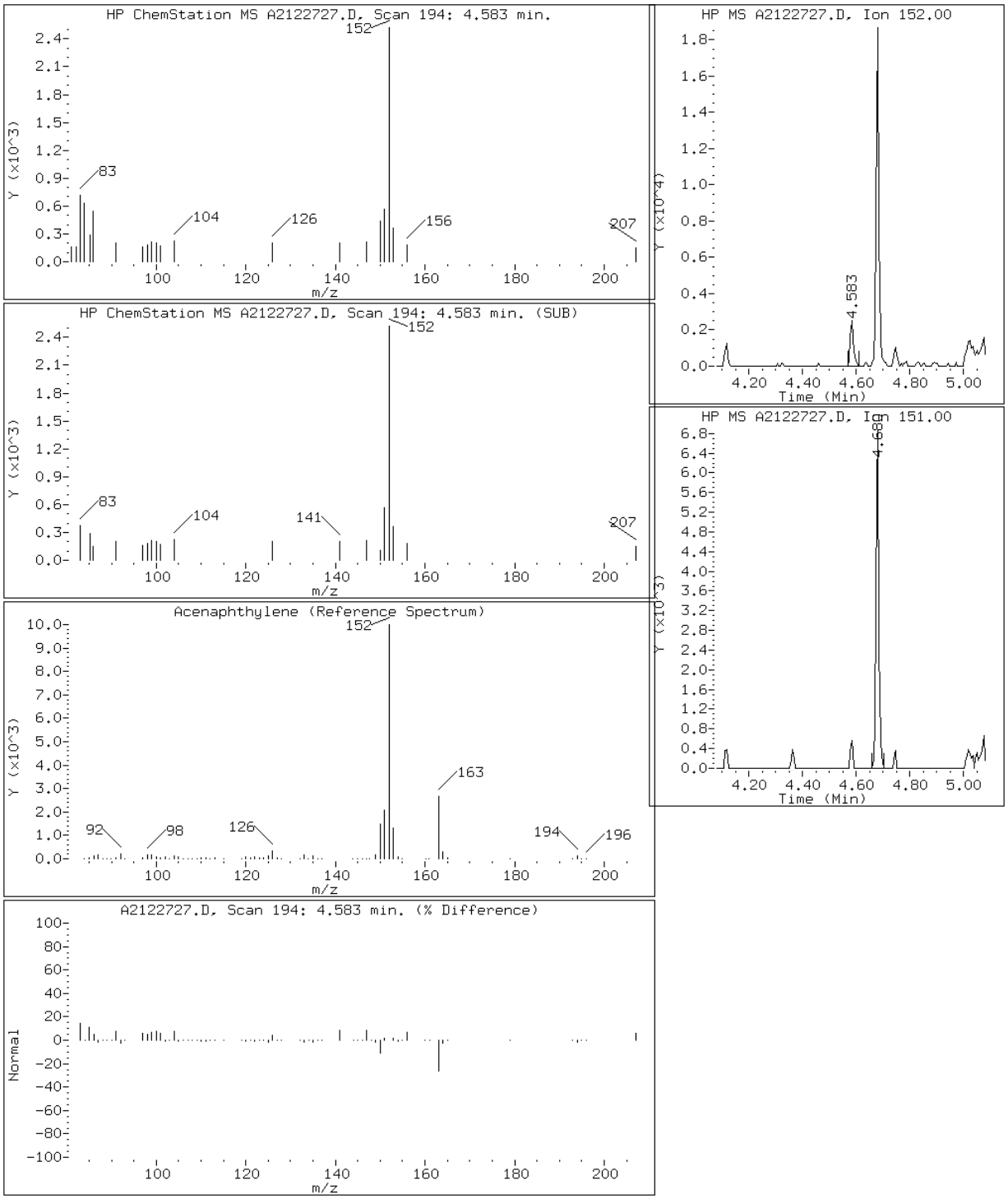
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

6 Acenaphthylene



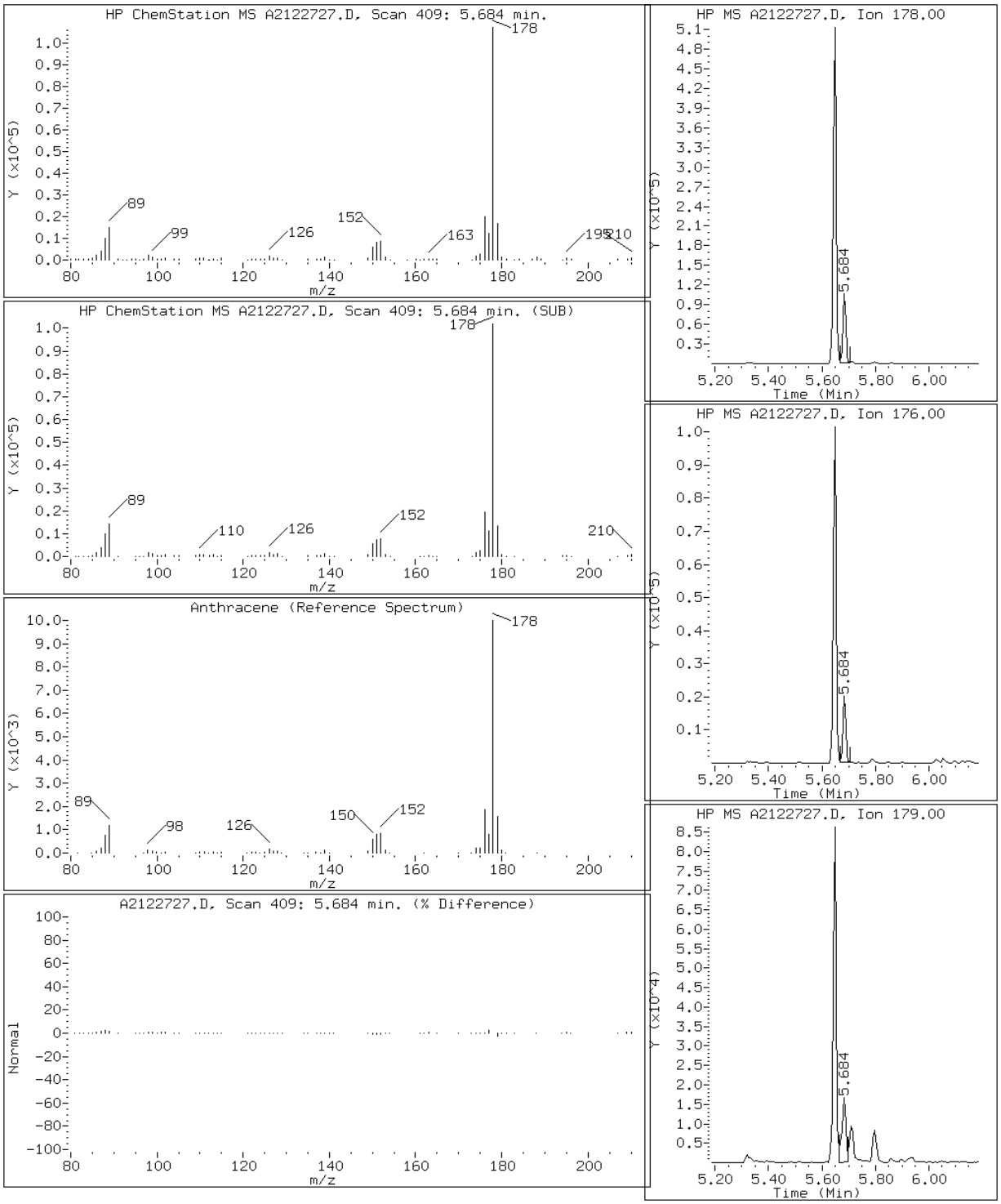
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

11 Anthracene



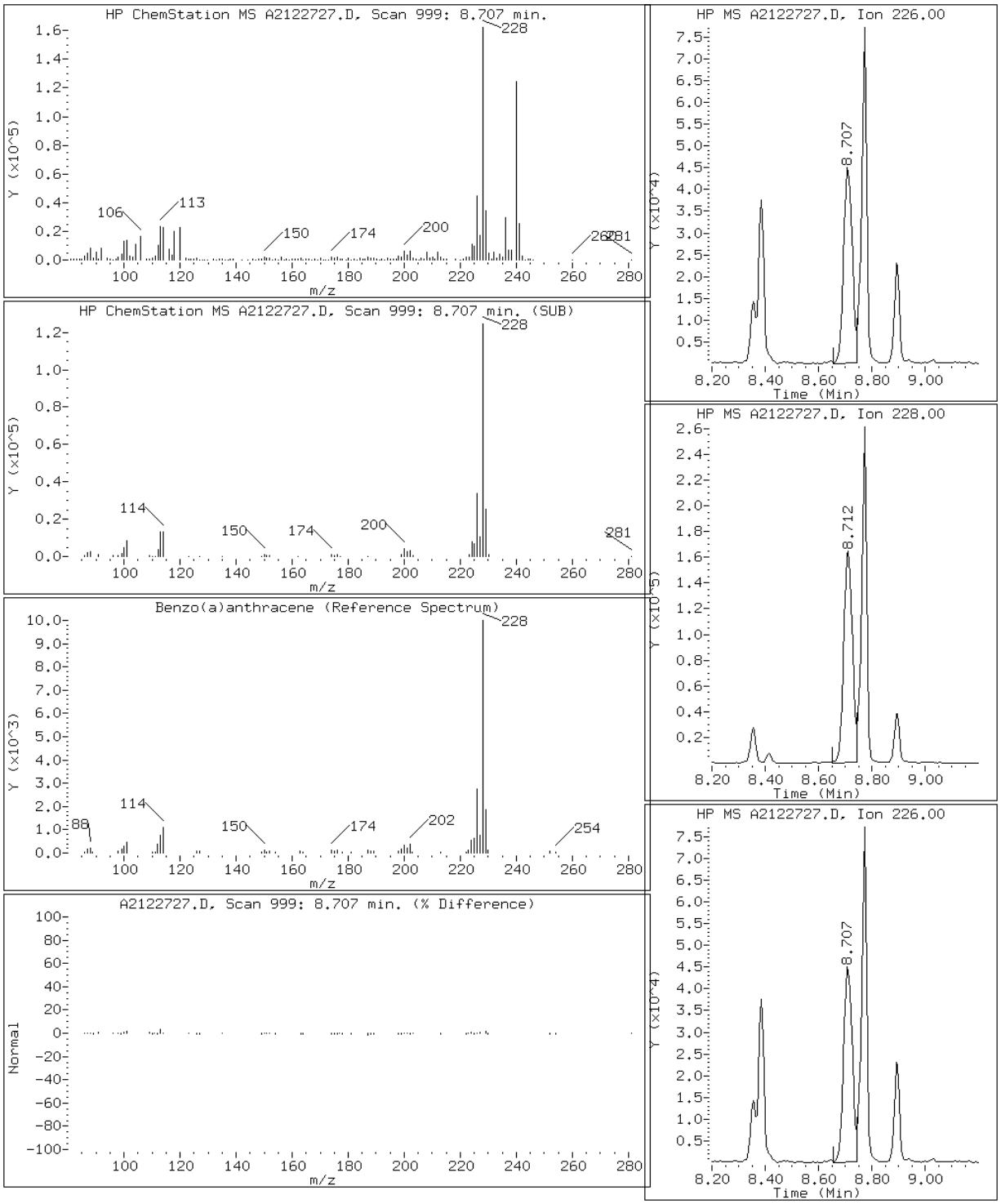
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

16 Benzo(a)anthracene



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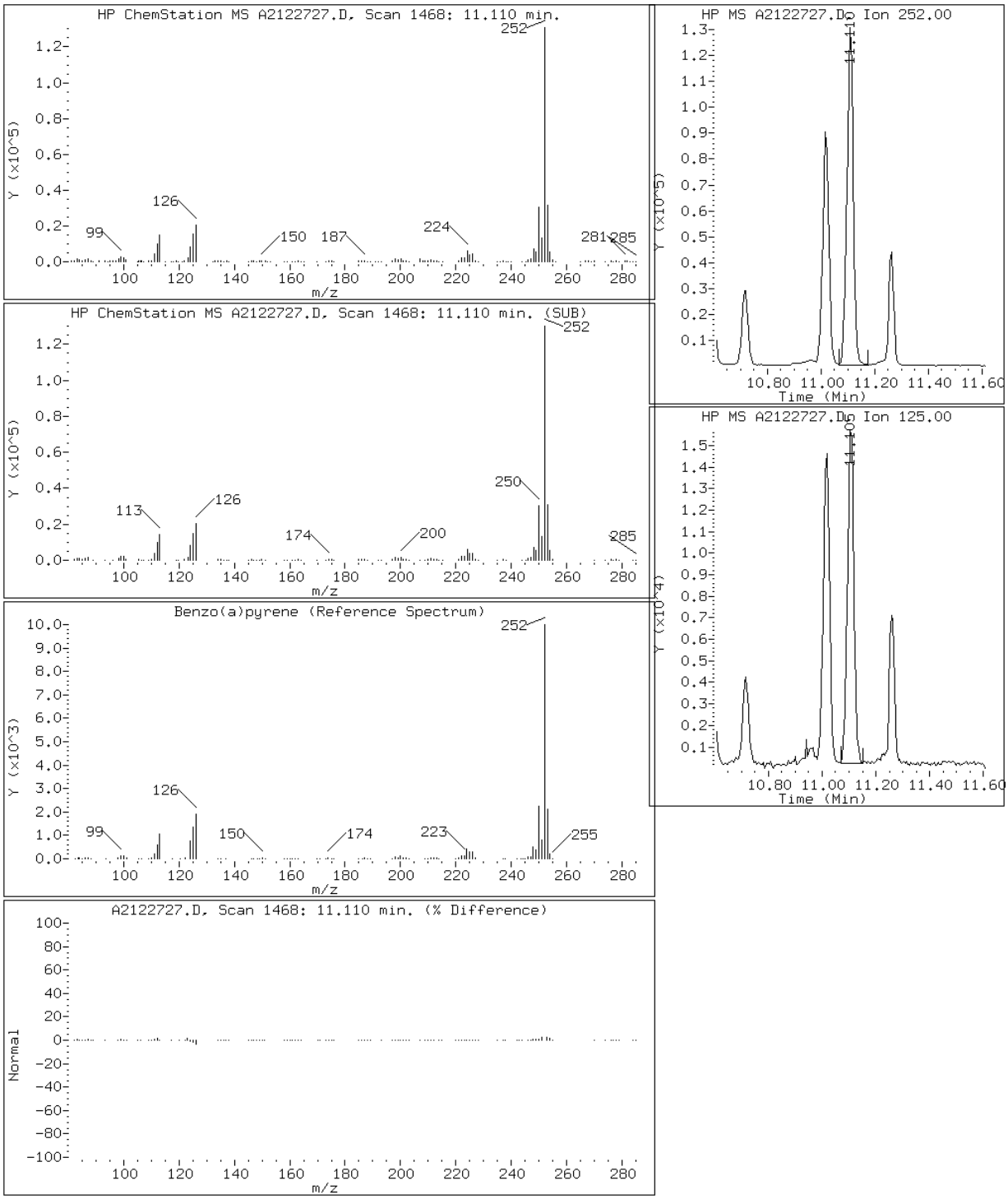
Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

21 Benzo(a)pyrene



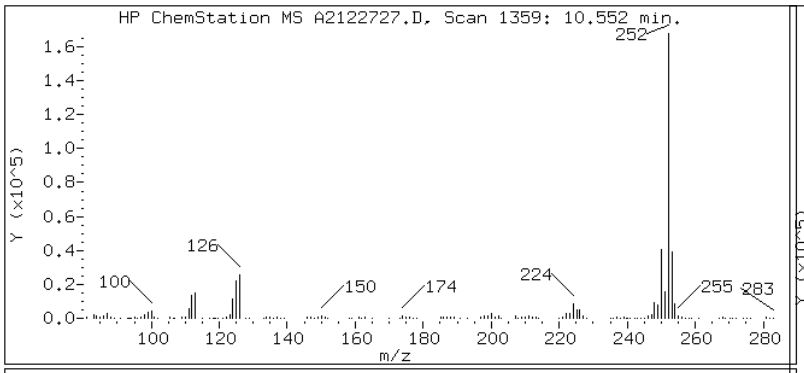
Data File: A2122727.D

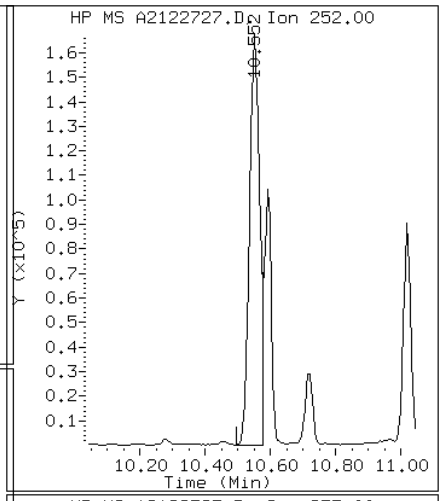
Date: 27-DEC-2012 18:45

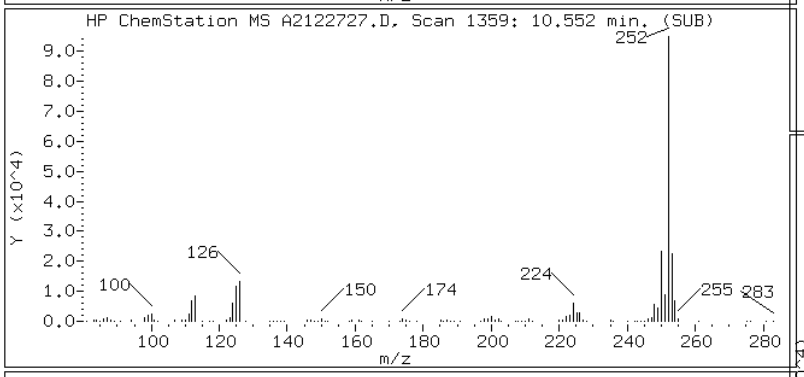
Client ID: CV0511Q-CS Instrument: TSMA5973.i

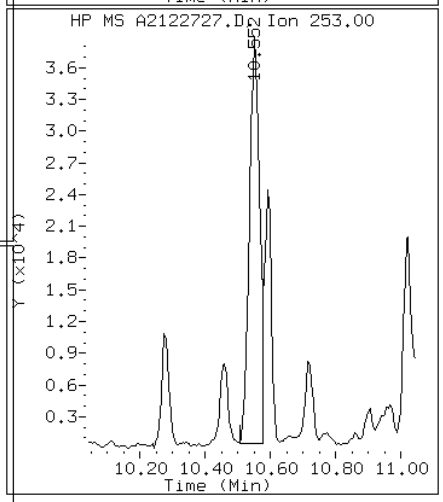
Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

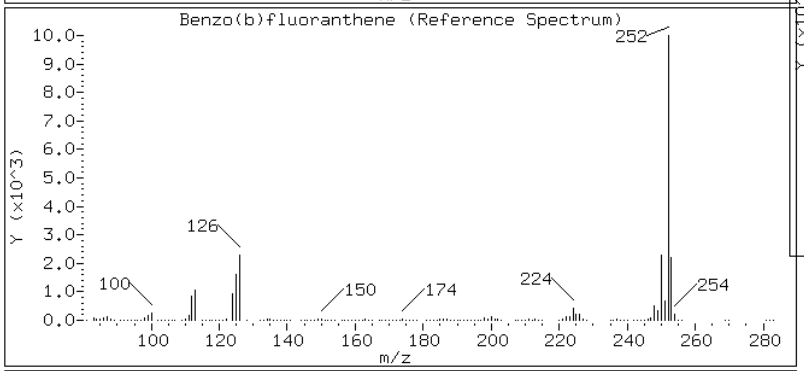
19 Benzo(b)fluoranthene

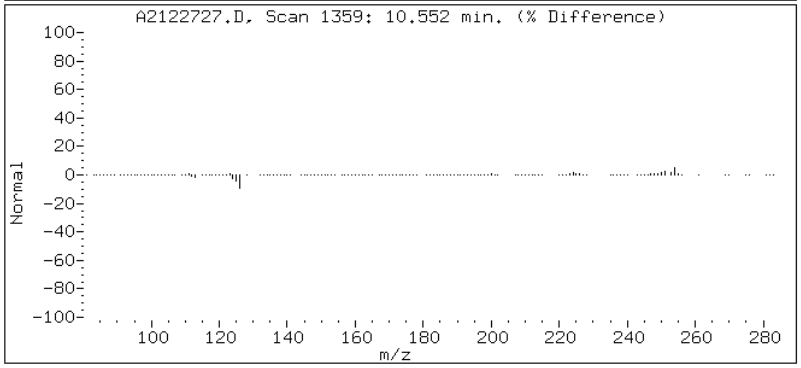












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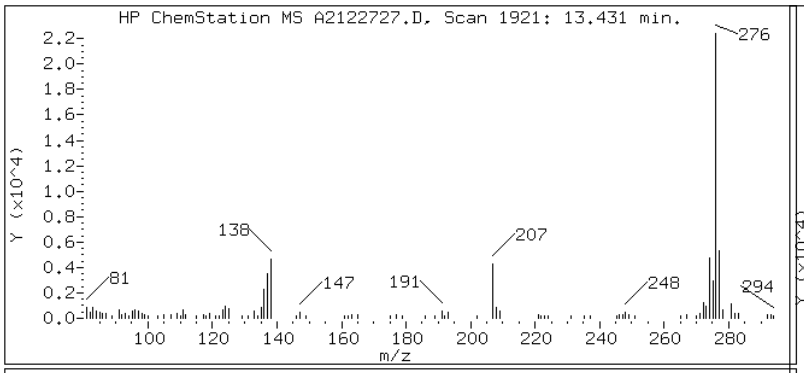
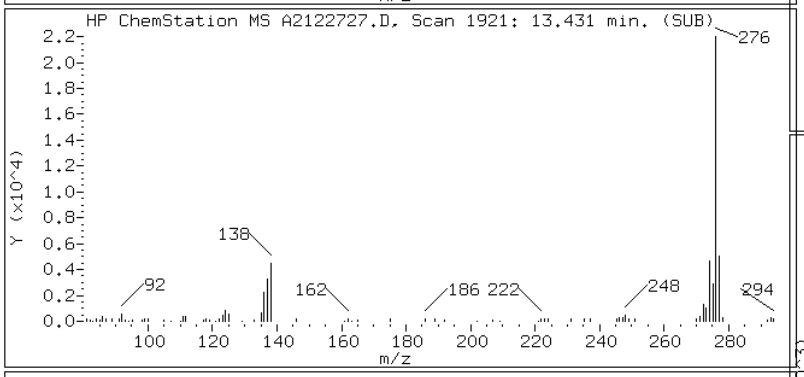
Date: 27-DEC-2012 18:45

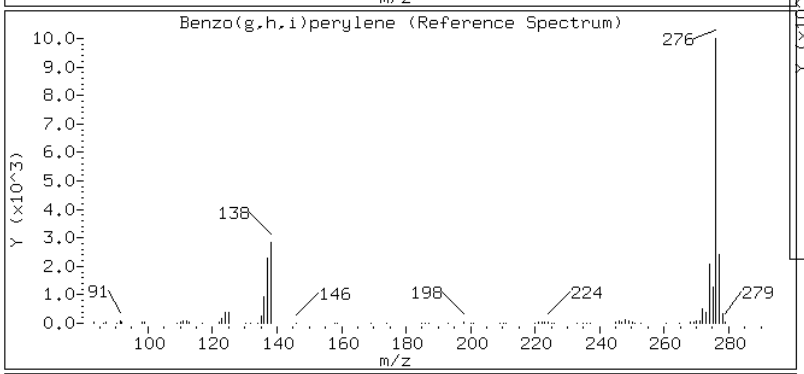
Client ID: CV0511Q-CS Instrument: TSMA5973.i

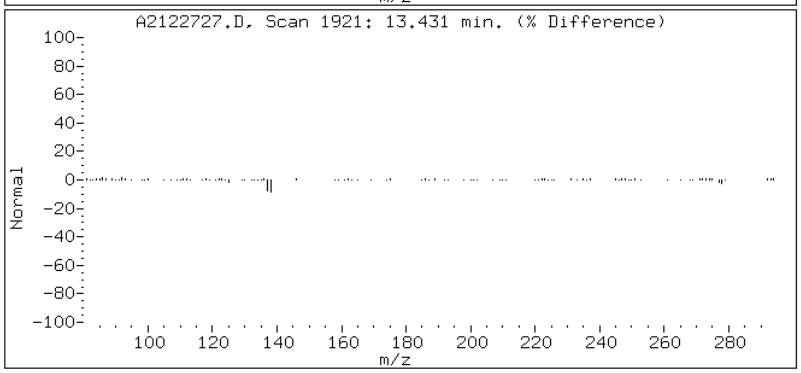
Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

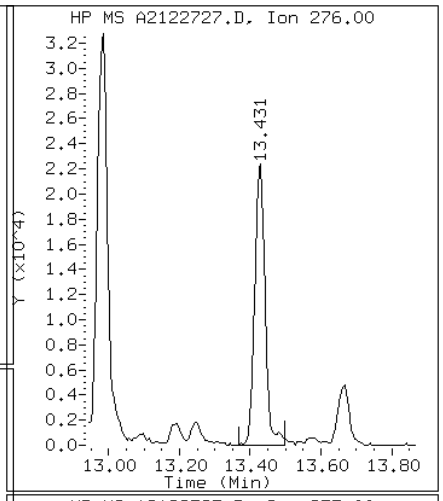
24 Benzo(g,h,i)perylene

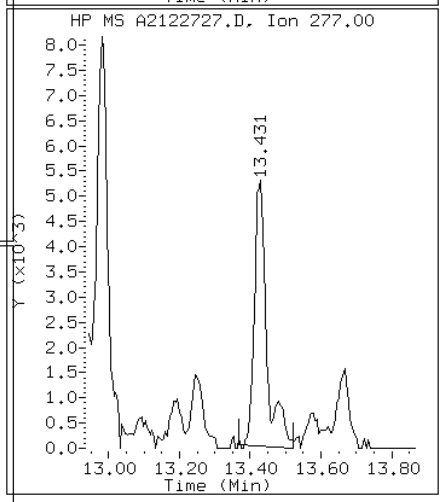












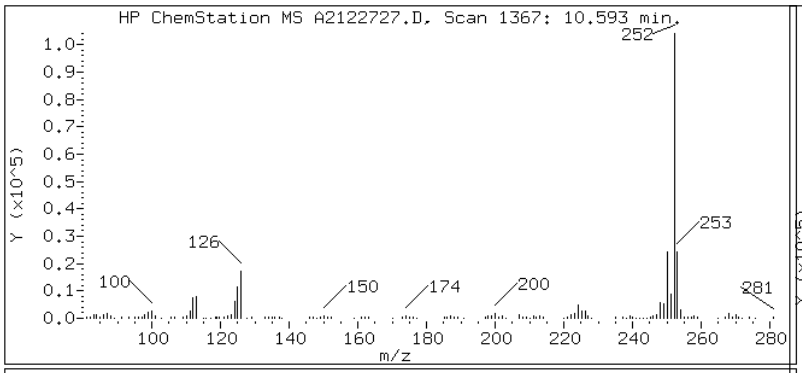
Data File: A2122727.D

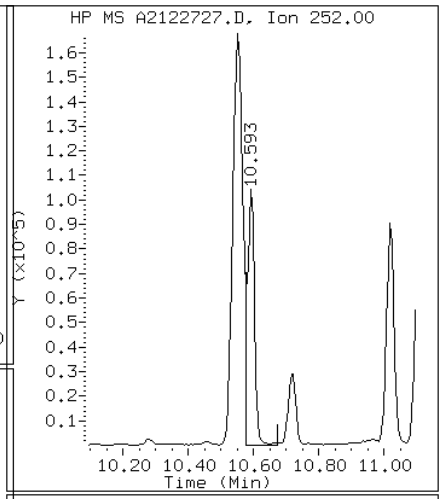
Date: 27-DEC-2012 18:45

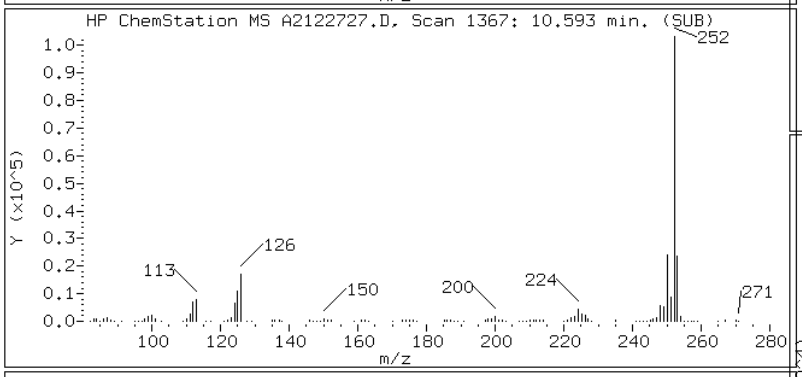
Client ID: CV0511Q-CS Instrument: TSMA5973.i

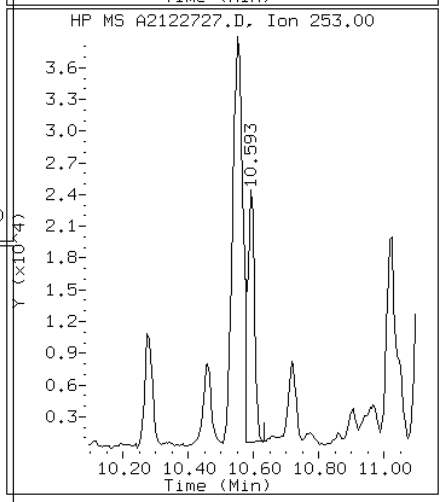
Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

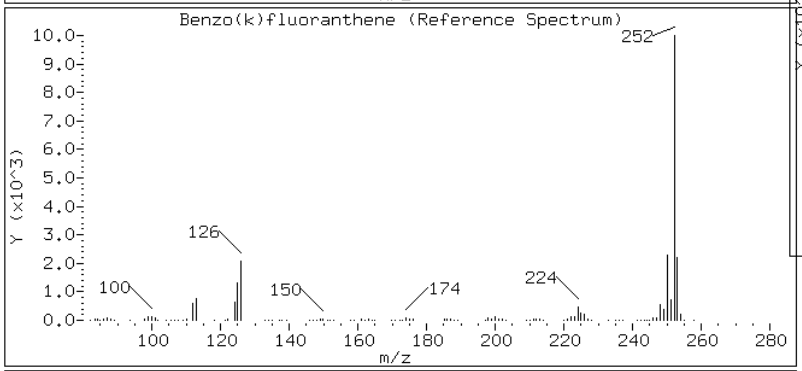
20 Benzo(k)fluoranthene

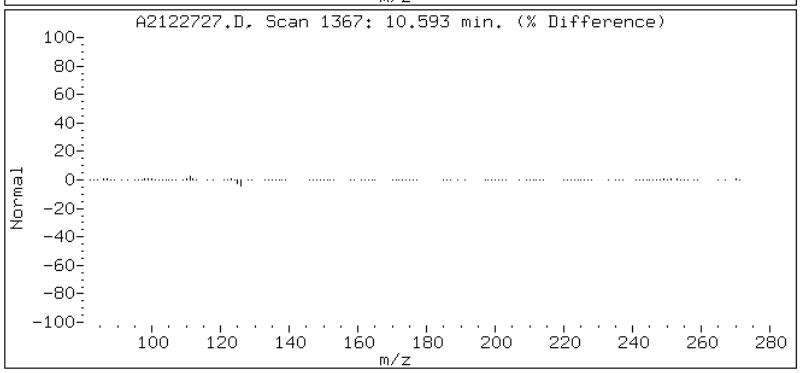












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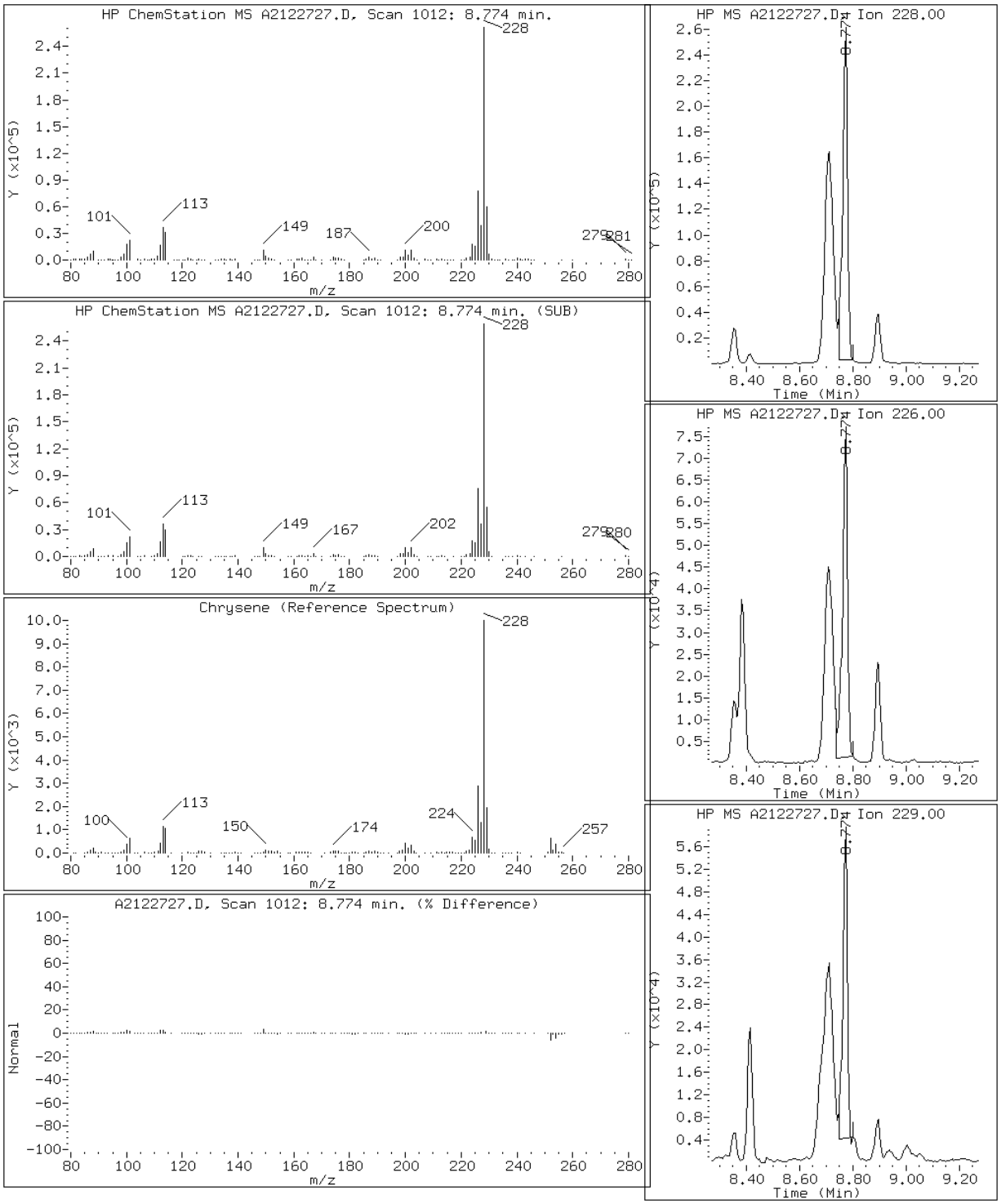
Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

17 Chrysene



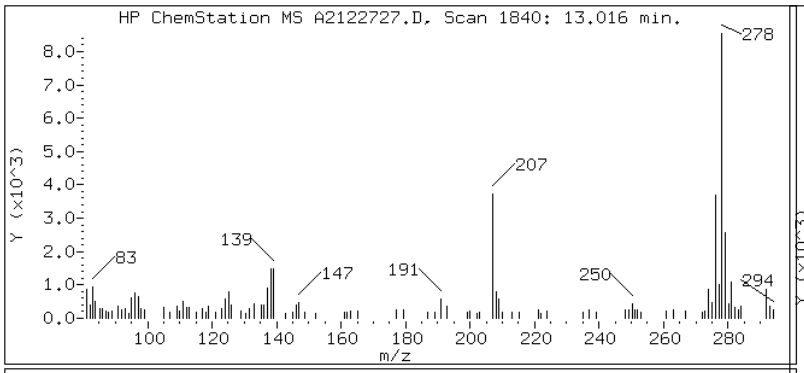
Data File: A2122727.D

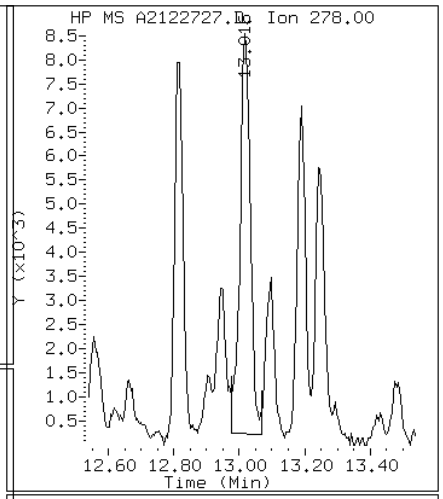
Date: 27-DEC-2012 18:45

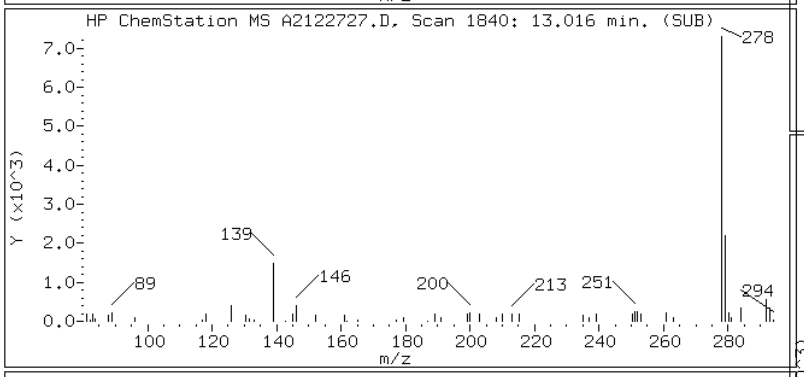
Client ID: CV0511Q-CS Instrument: TSMA5973.i

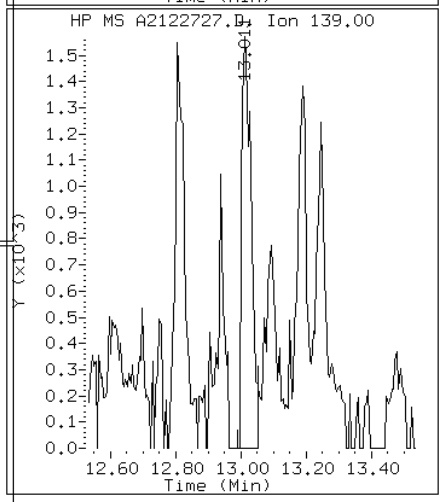
Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

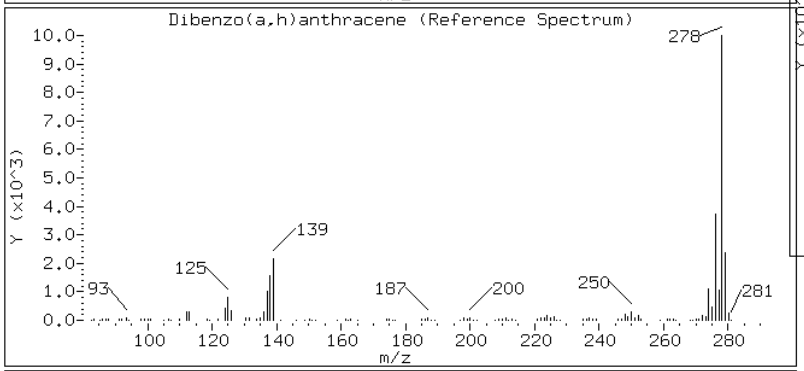
23 Dibenzo(a,h)anthracene

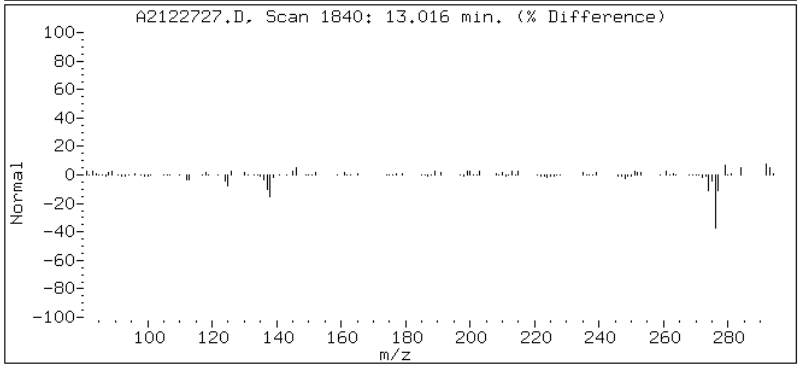












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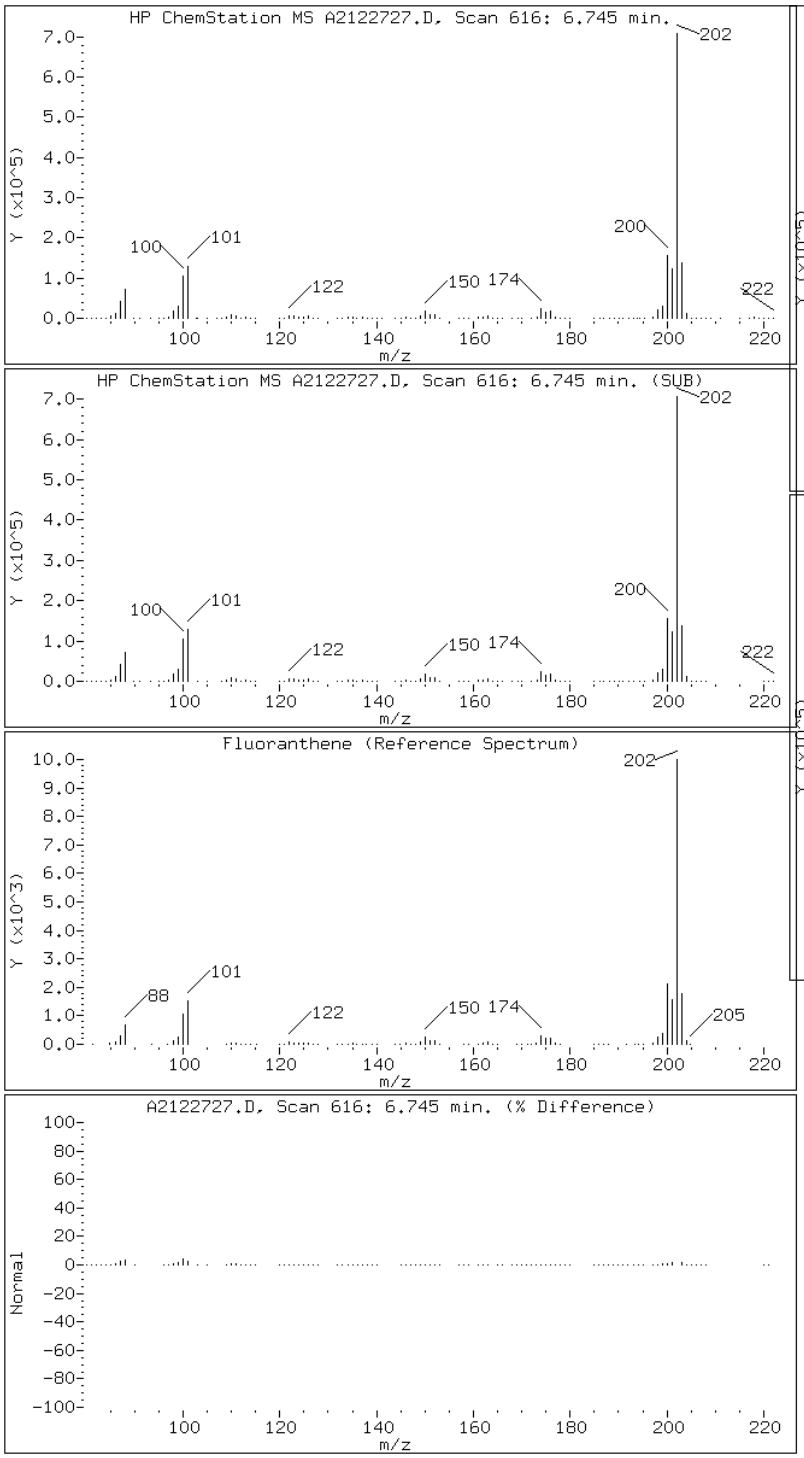
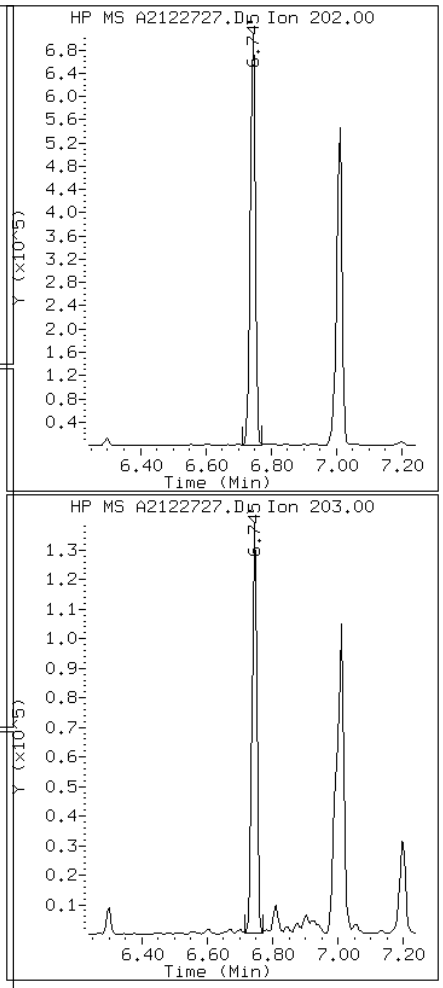
Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

13 Fluoranthene





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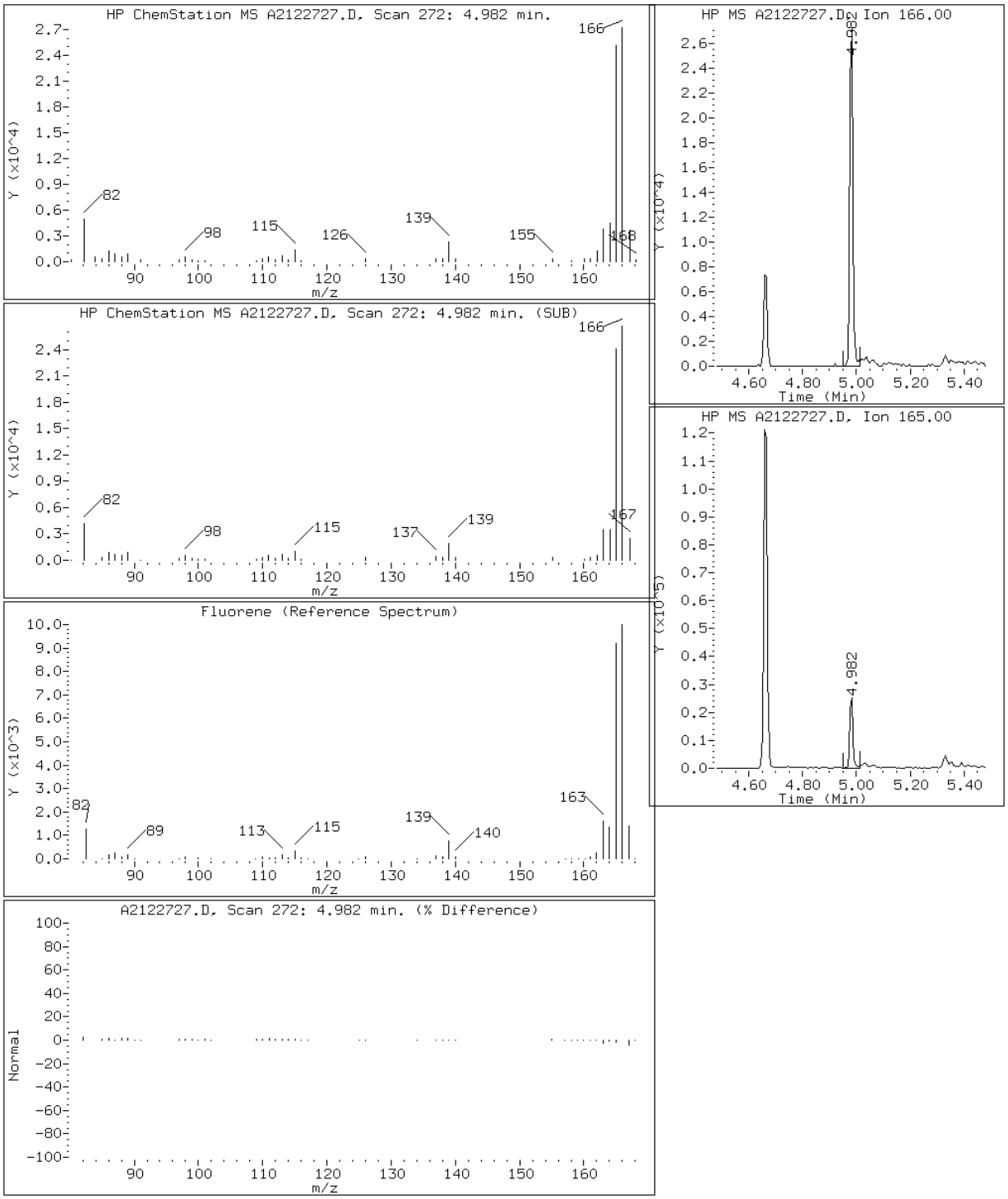
Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

8 Fluorene



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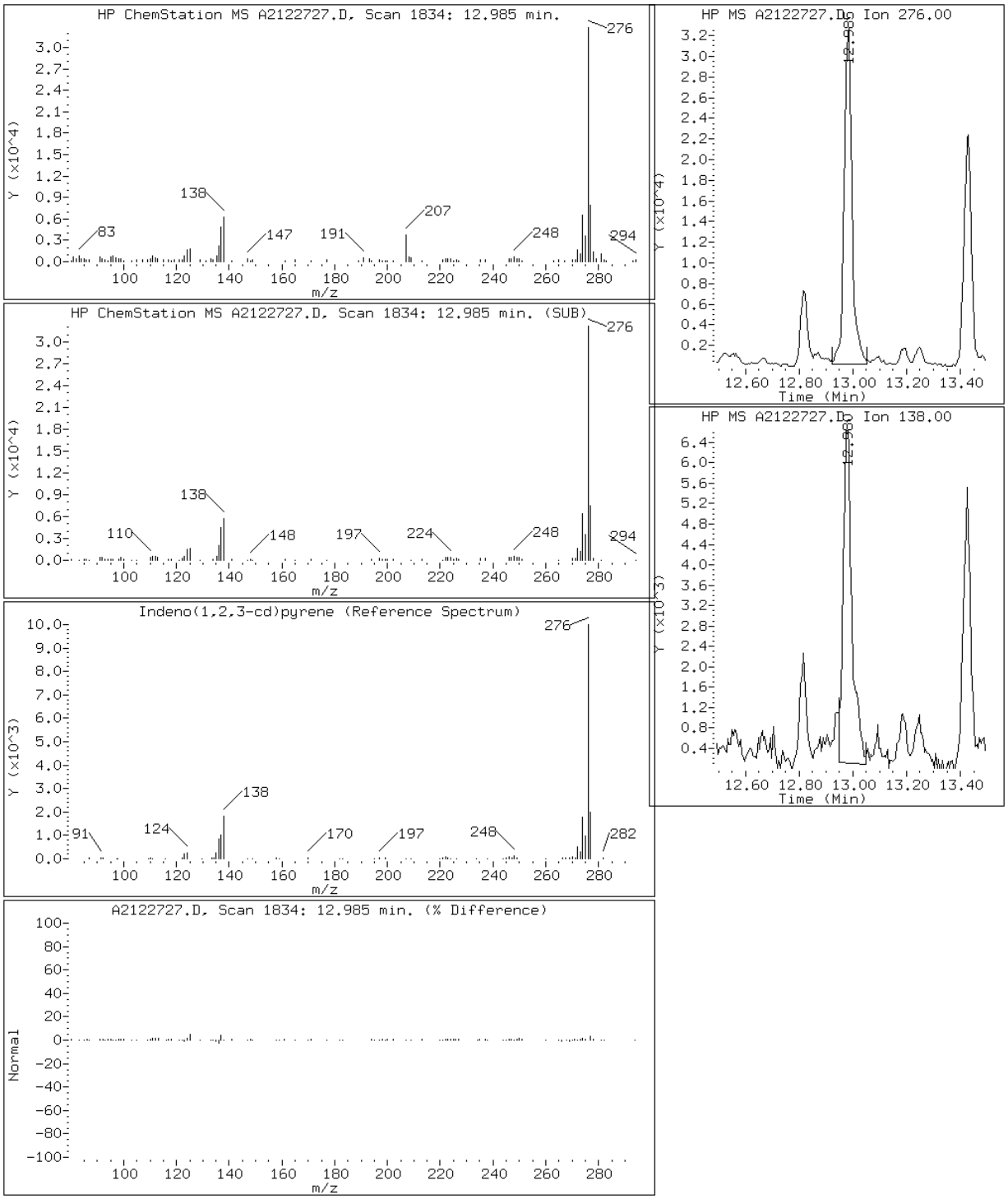
Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

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



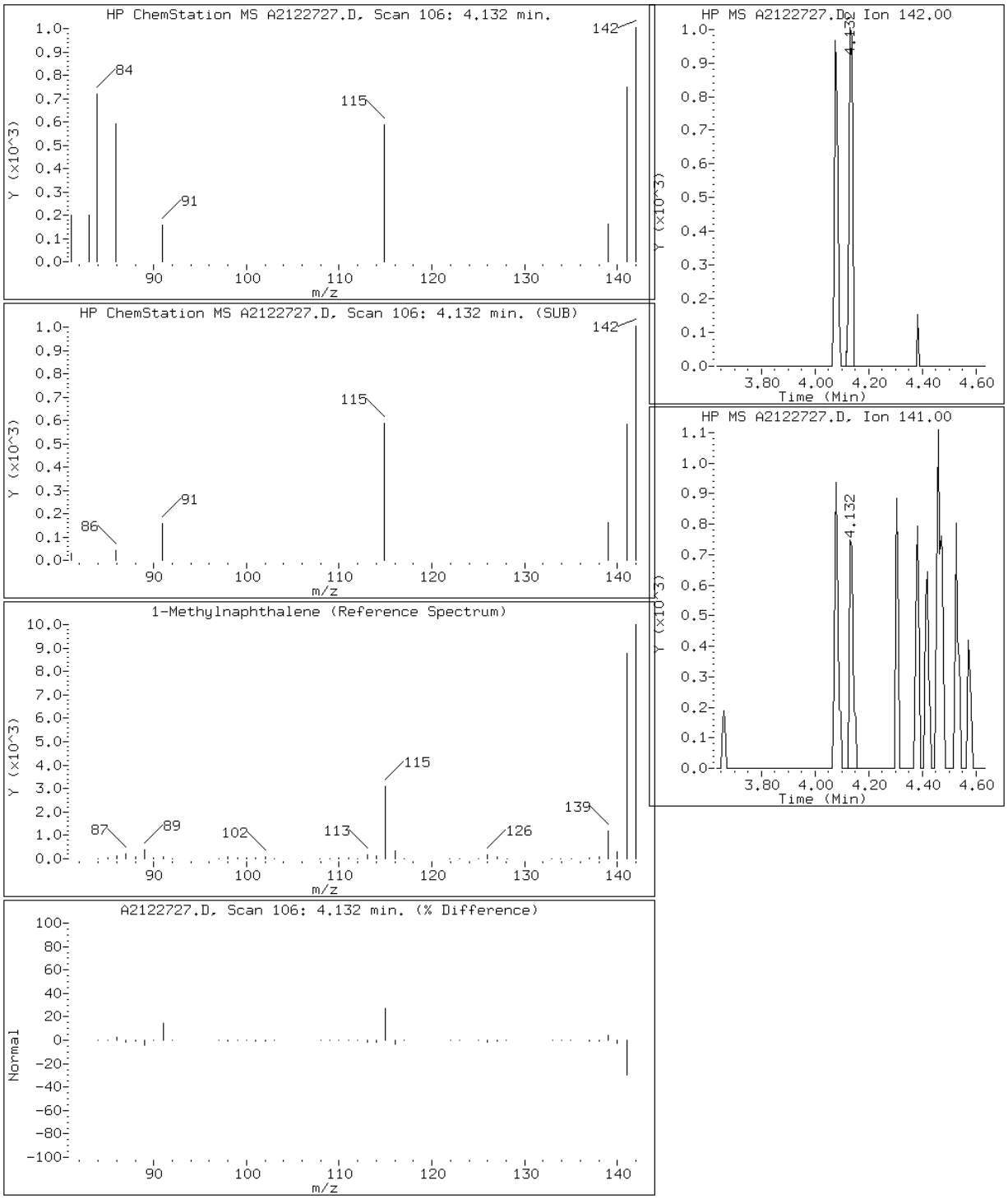
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

4 1-Methylnaphthalene



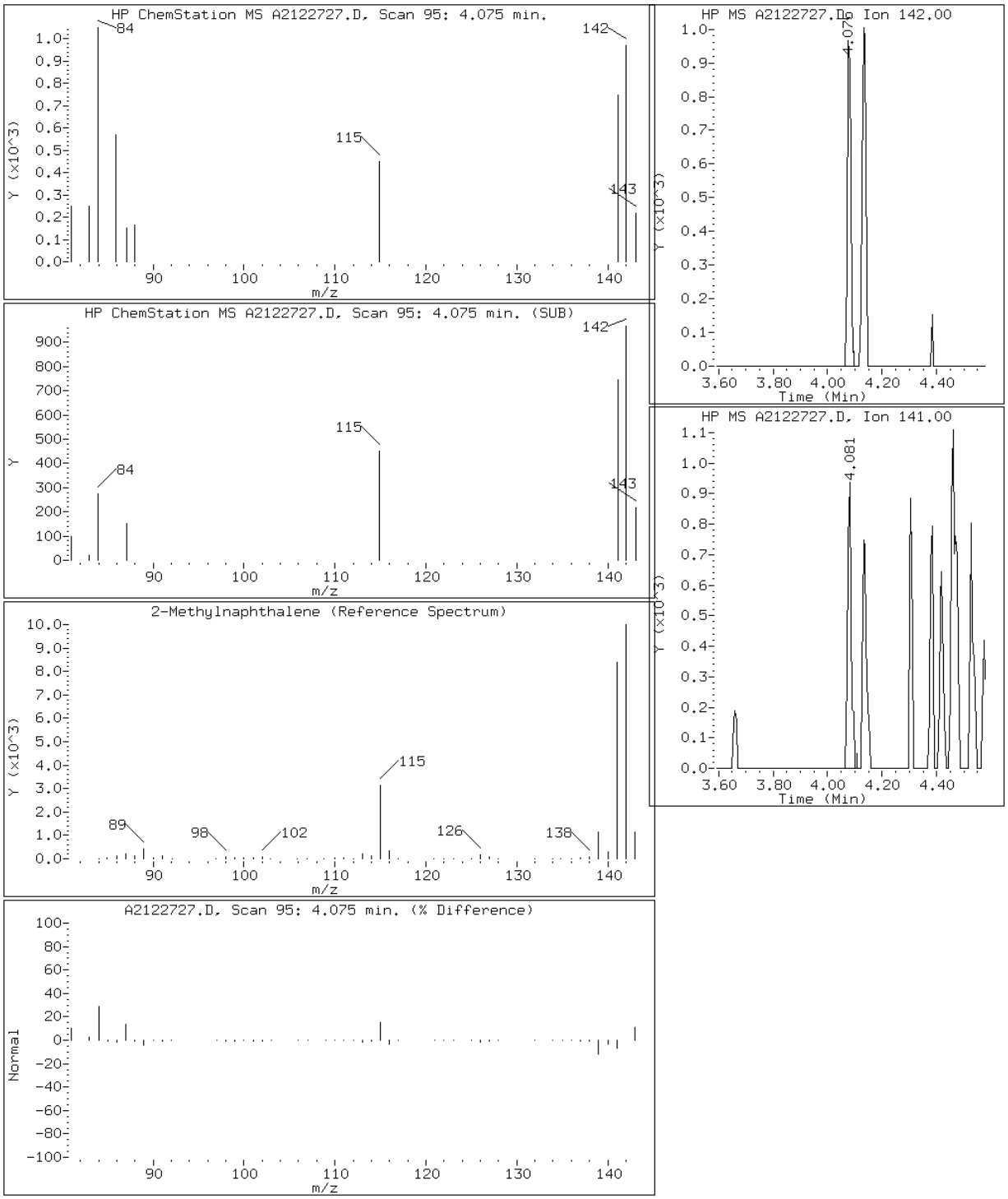
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

3 2-Methylnaphthalene



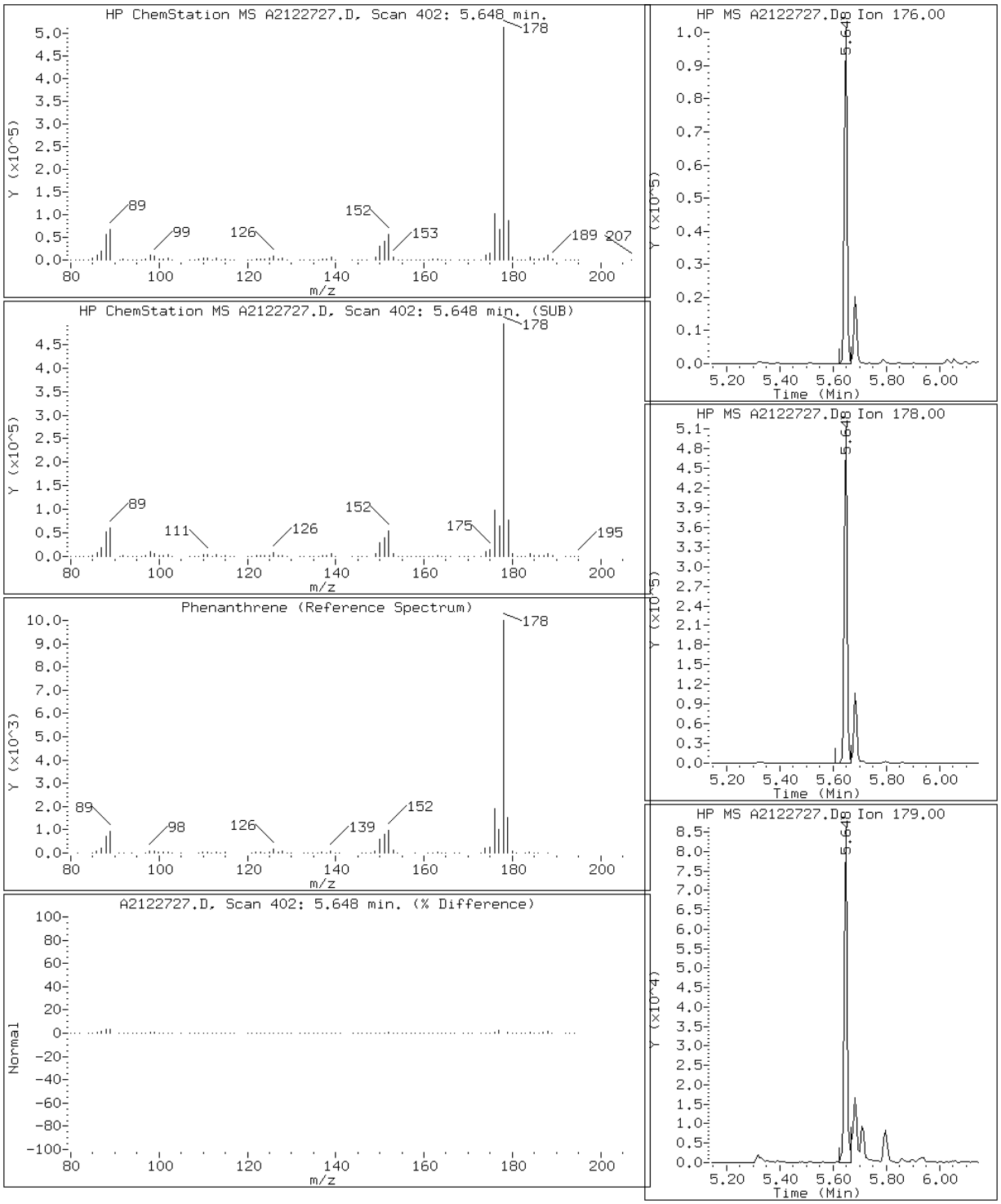
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

10 Phenanthrene



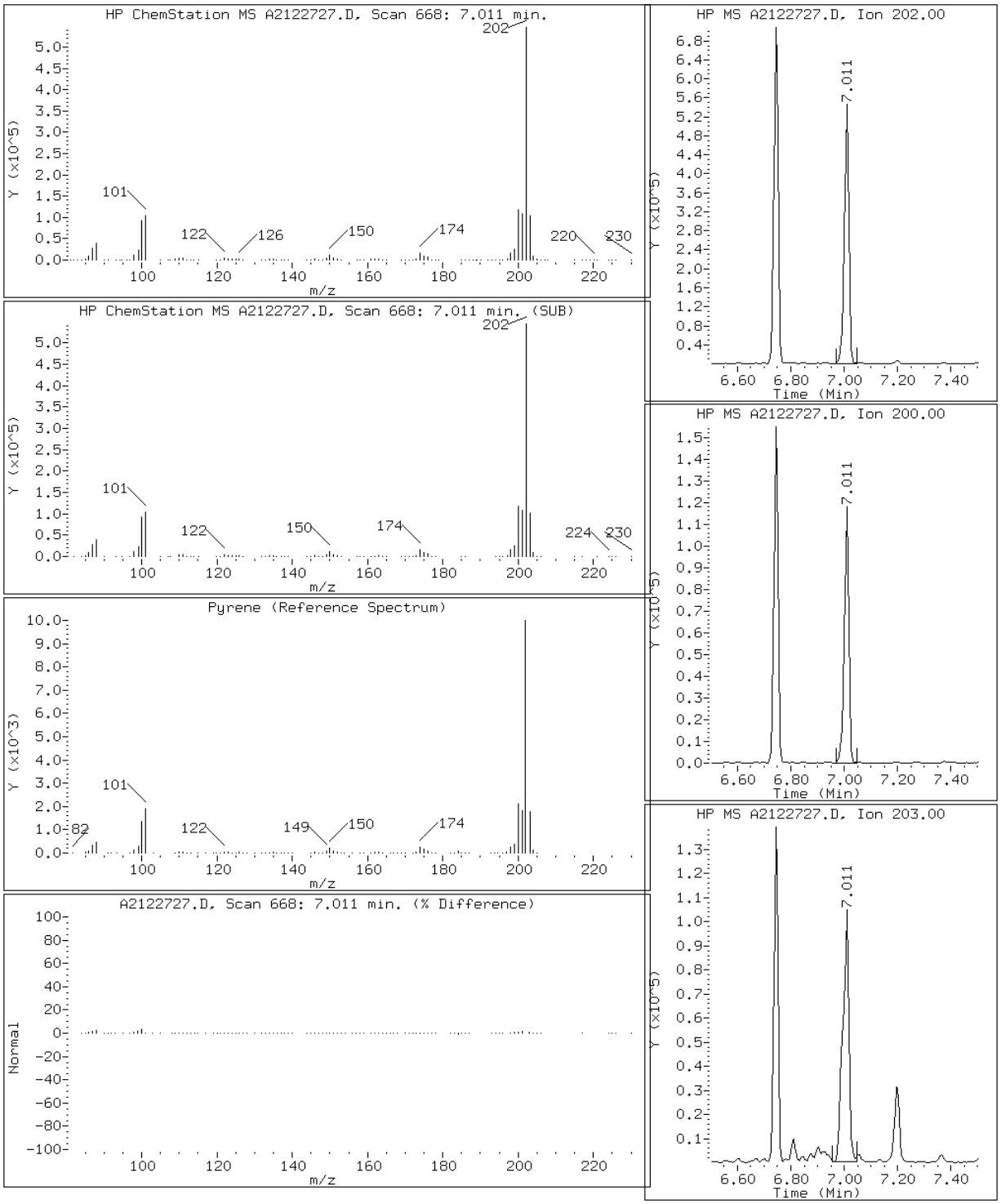
Data File: A2122727.D

Date: 27-DEC-2012 18:45

Client ID: CV0511Q-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-50-A~98123~25~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511R-CS | Lab Sample ID: 680-85785-51

Matrix: Solid | Lab File ID: A2122714.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:07

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.48(g) | Date Analyzed: 12/27/2012 11:43

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

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

% Moisture: 33.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	16		9.9	0.86
208-96-8	Acenaphthylene	18		9.9	0.79
120-12-7	Anthracene	51		9.9	0.98
56-55-3	Benzo[a]anthracene	280	B	9.9	0.92
50-32-8	Benzo[a]pyrene	380	B	9.9	1.0
205-99-2	Benzo[b]fluoranthene	640	B	9.9	1.4
191-24-2	Benzo[g,h,i]perylene	120	B	9.9	1.6
207-08-9	Benzo[k]fluoranthene	230	B	9.9	0.95
218-01-9	Chrysene	320	B	9.9	1.1
53-70-3	Dibenz(a,h)anthracene	44	B	9.9	0.96
206-44-0	Fluoranthene	470	B	9.9	0.89
86-73-7	Fluorene	13		9.9	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	160	B	9.9	1.6
90-12-0	1-Methylnaphthalene	16		9.9	0.79
91-57-6	2-Methylnaphthalene	19		9.9	0.77
91-20-3	Naphthalene	17		9.9	0.77
85-01-8	Phenanthrene	200		9.9	0.65
129-00-0	Pyrene	390	B	9.9	0.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	74		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122714.D
Lab Smp Id: 680-85785-A-51-A Client Smp ID: CV0511R-CS
Inj Date : 27-DEC-2012 11:43
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-51-A~98123~1~8270D/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: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.480	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	3.706	3.705	(1.000)	1491420	40.0000		
2 Naphthalene	128	3.717	3.720	(1.003)	14467	0.34439	11	
3 2-Methylnaphthalene	142	4.075	4.079	(1.100)	10393	0.39149	13	
4 1-Methylnaphthalene	142	4.132	4.135	(1.115)	8649	0.31482	10	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	800905	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	16031	0.37349	12	
7 Acenaphthene	153	4.680	4.678	(1.004)	8354	0.31614	10	
8 Fluorene	166	4.982	4.980	(1.069)	7858	0.26074	8.6	
* 9 Phenanthrene-d10	188	5.633	5.631	(1.000)	1234233	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	32572	4.06384	130	
11 Anthracene	178	5.684	5.687	(1.009)	43195	1.02425	34	
$ 12 o-Terphenyl	230	5.899	5.903	(1.047)	76703	2.94063	96	
13 Fluoranthene	202	6.745	6.743	(1.197)	461789	9.42459	310	
* 14 Chrysene-d12	240	8.748	8.736	(1.000)	1517914	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	7.011	7.004	(0.801)	413032	7.98375	260	
16 Benzo(a)anthracene	226	8.717	8.700	(0.996)	78020	5.66329	180(Q)	
17 Chrysene	228	8.773	8.772	(1.003)	304019	6.46242	210	
* 18 Perylene-d12	264	11.243	11.241	(1.000)	1054406	40.0000		
19 Benzo(b)fluoranthene	252	10.562	10.544	(0.939)	420076	12.9189	420	
20 Benzo(k)fluoranthene	252	10.603	10.596	(0.943)	155113	4.67074	150	
21 Benzo(a)pyrene	252	11.120	11.113	(0.989)	225095	7.66143	250	
22 Indeno(1,2,3-cd)pyrene	276	13.005	12.993	(1.157)	95582	3.22811	100	
23 Dibenzo(a,h)anthracene	278	13.041	13.039	(1.160)	26995	0.89991	30	
24 Benzo(g,h,i)perylene	276	13.467	13.444	(1.198)	71942	2.45254	80	

QC Flag Legend

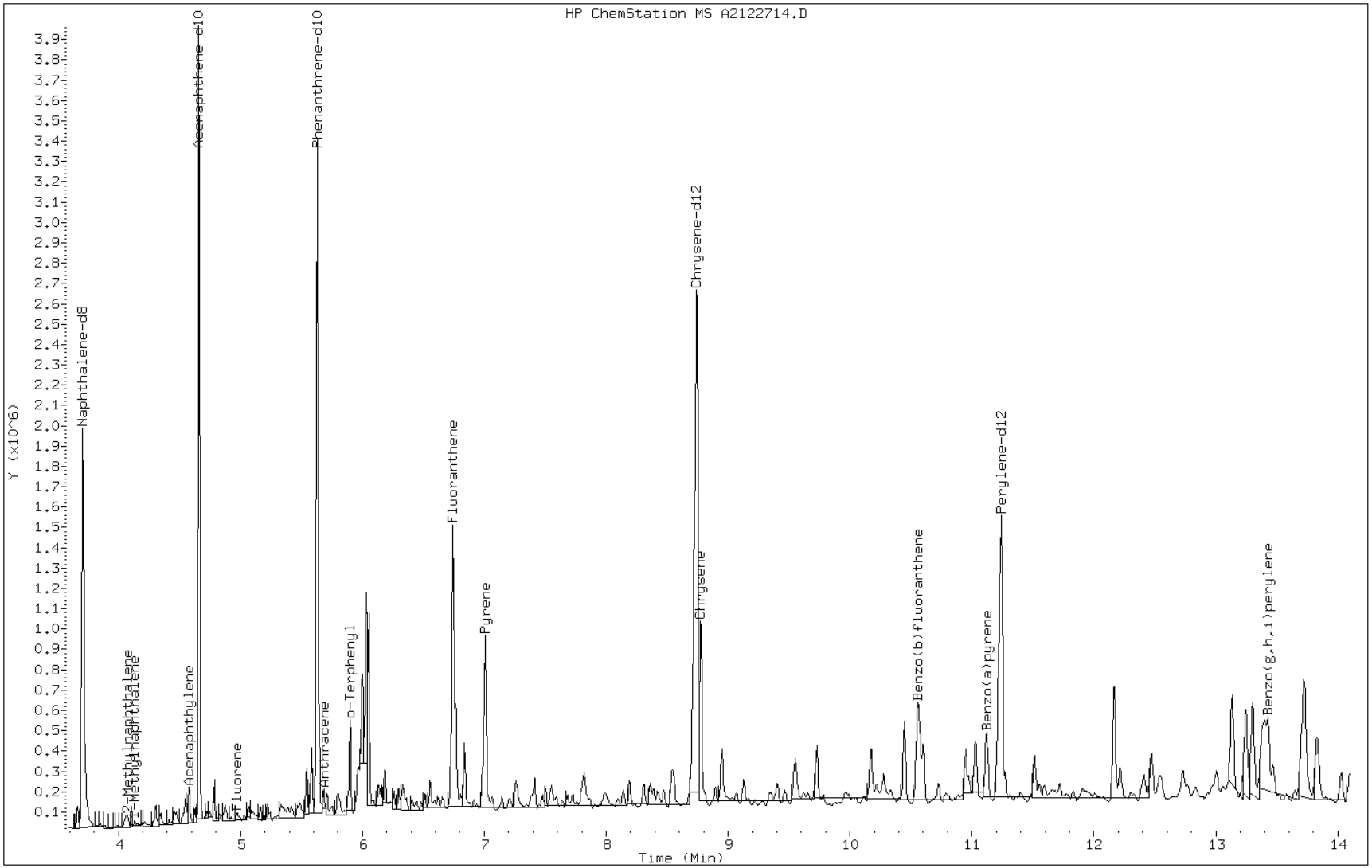
Q - Qualifier signal failed the ratio test.

Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW



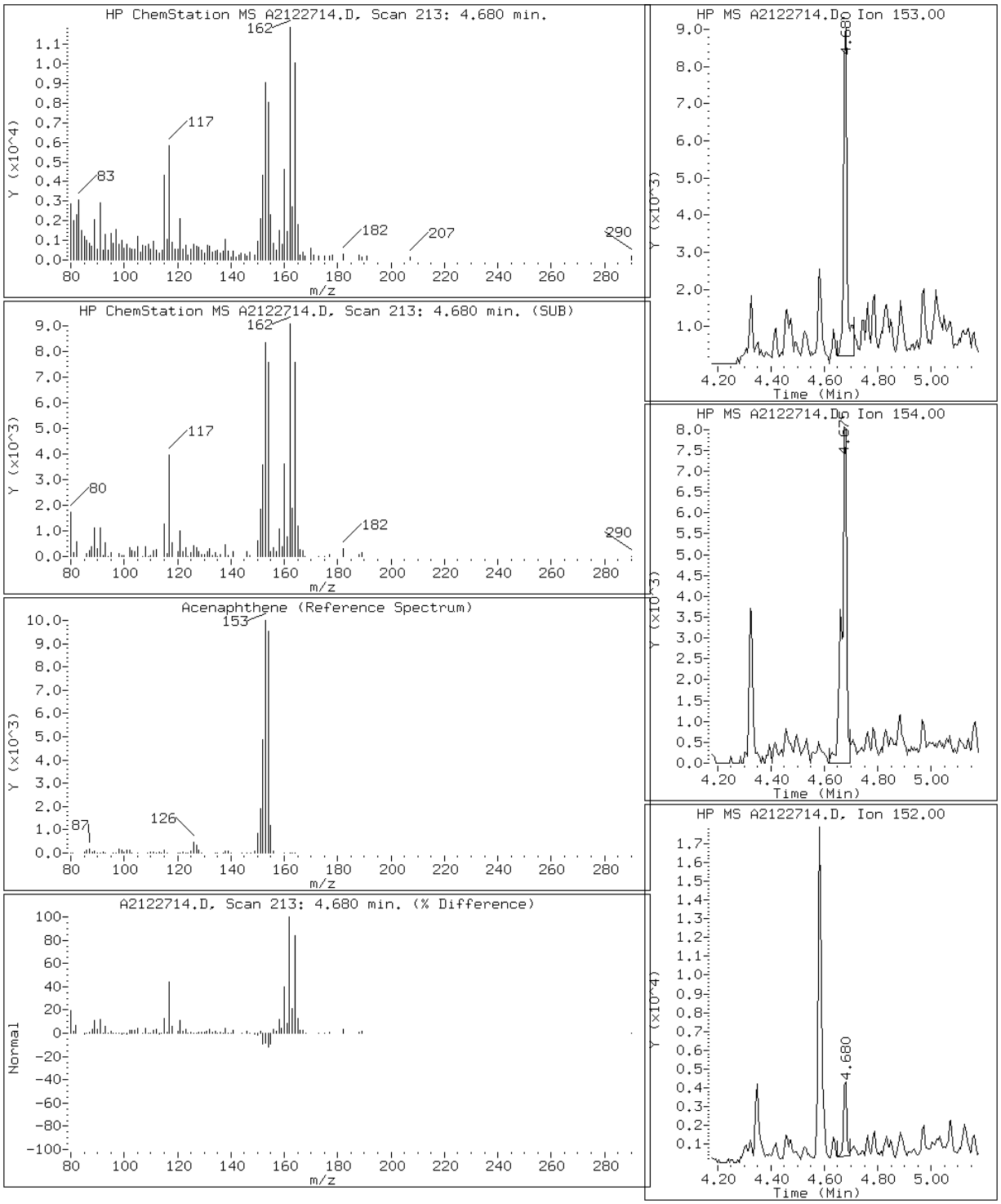
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



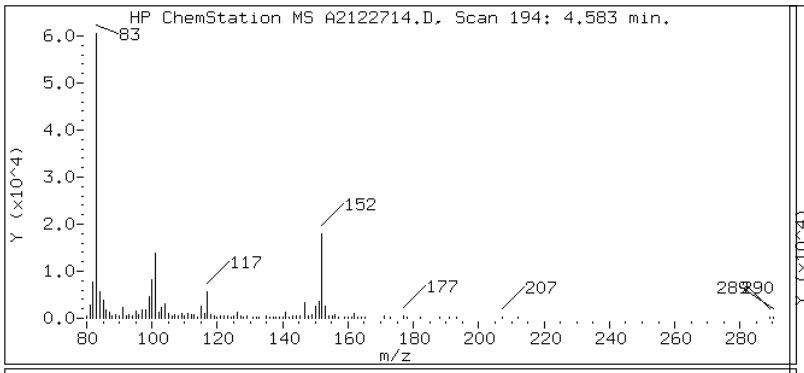
Data File: A2122714.D

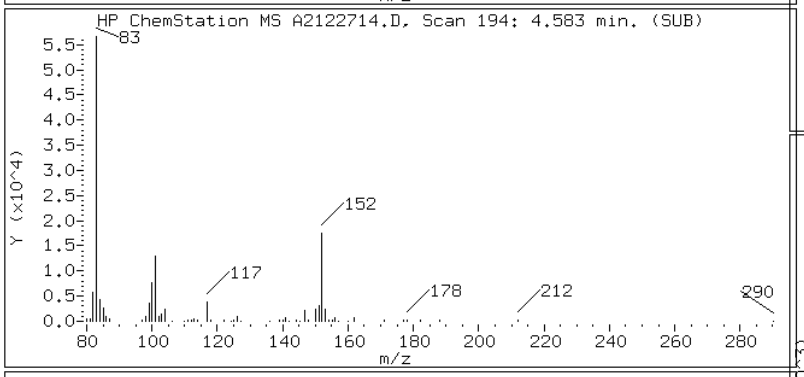
Date: 27-DEC-2012 11:43

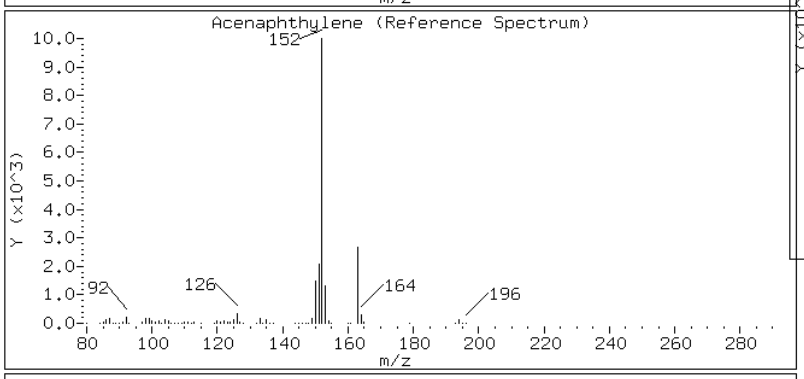
Client ID: CV0511R-CS Instrument: TSMA5973.i

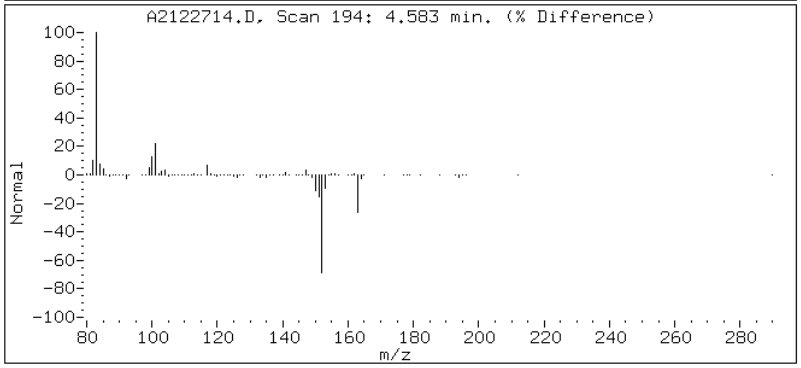
Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

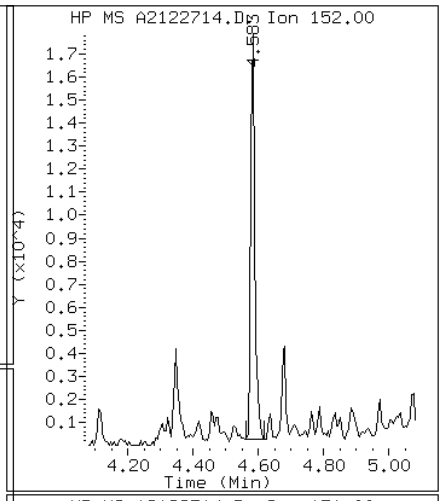
6 Acenaphthylene

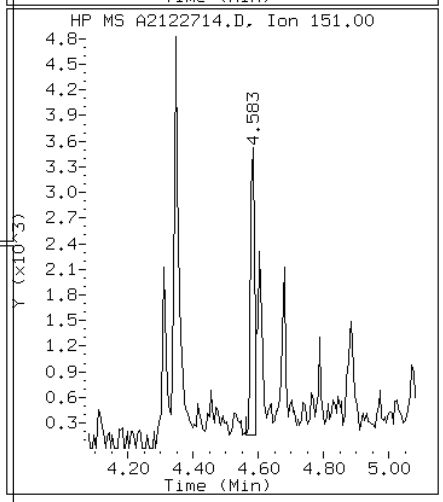












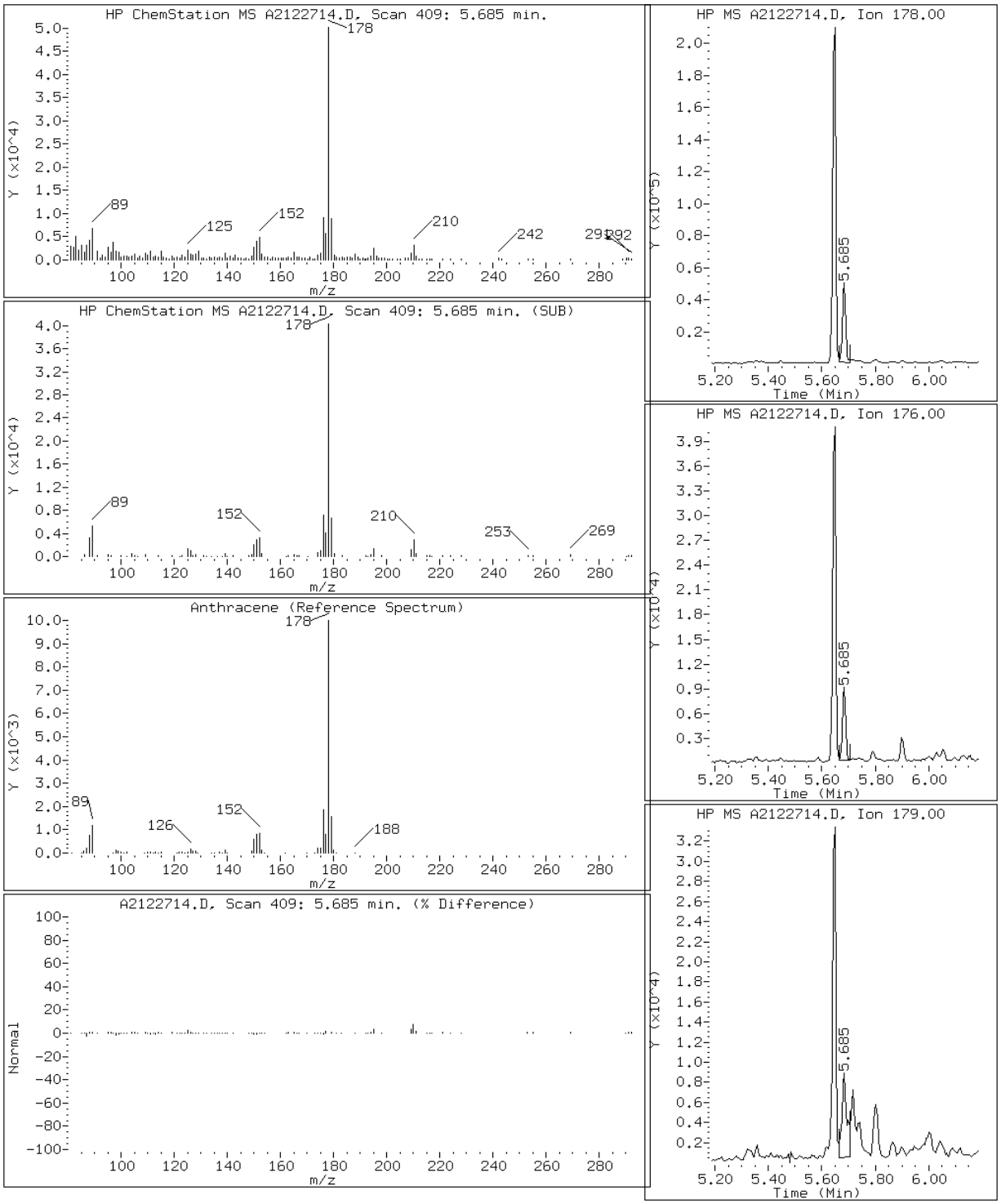
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

11 Anthracene



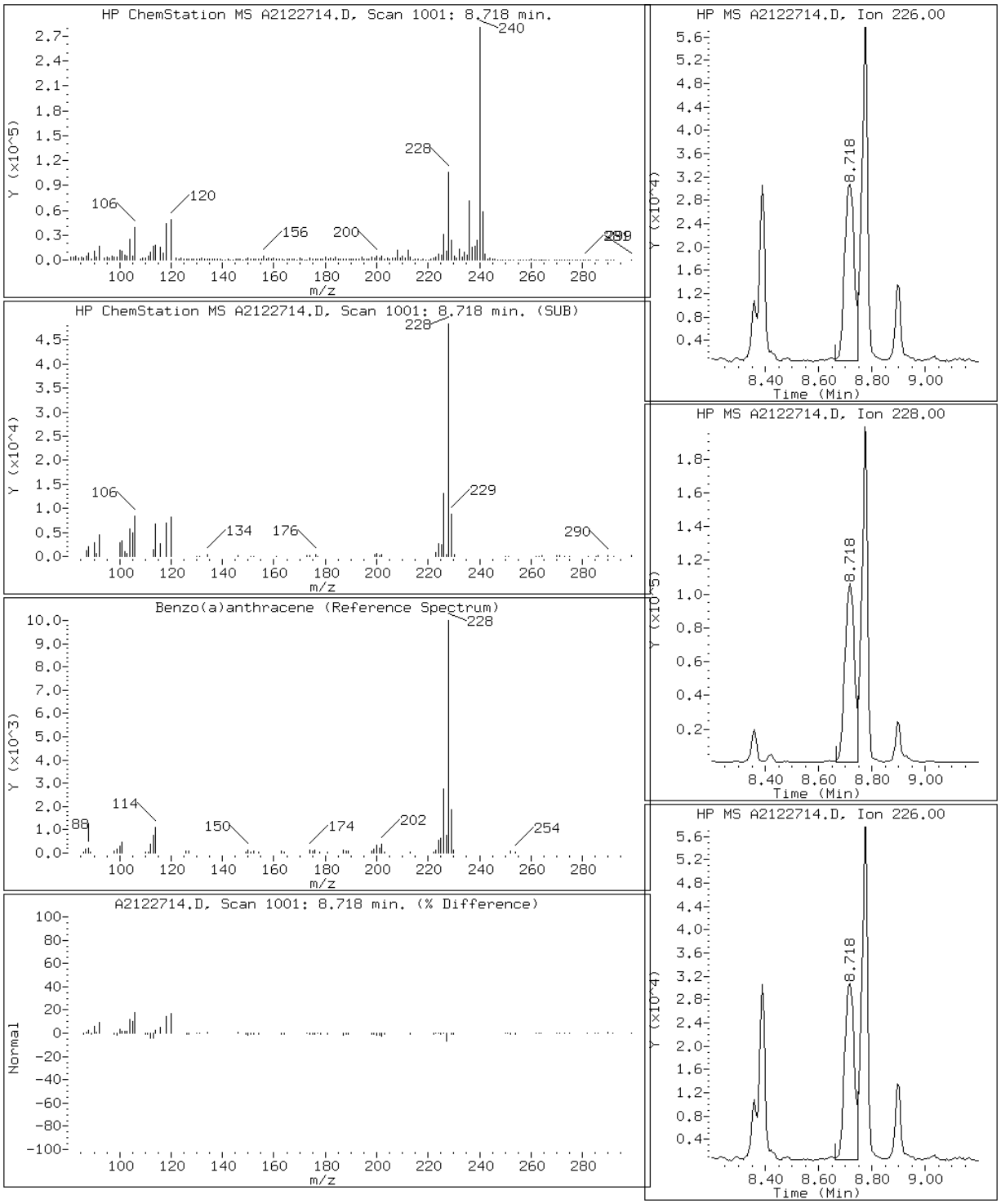
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



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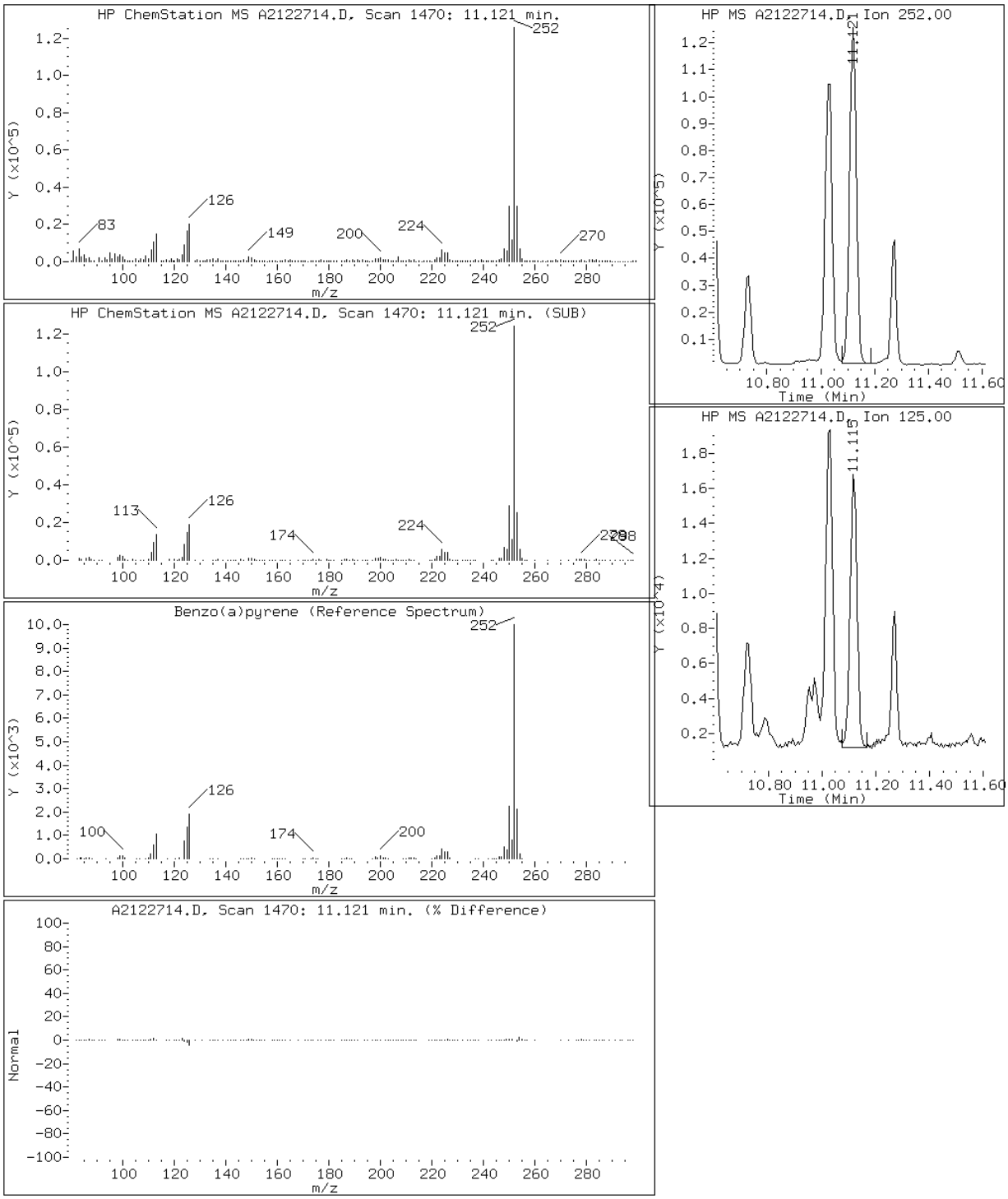
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



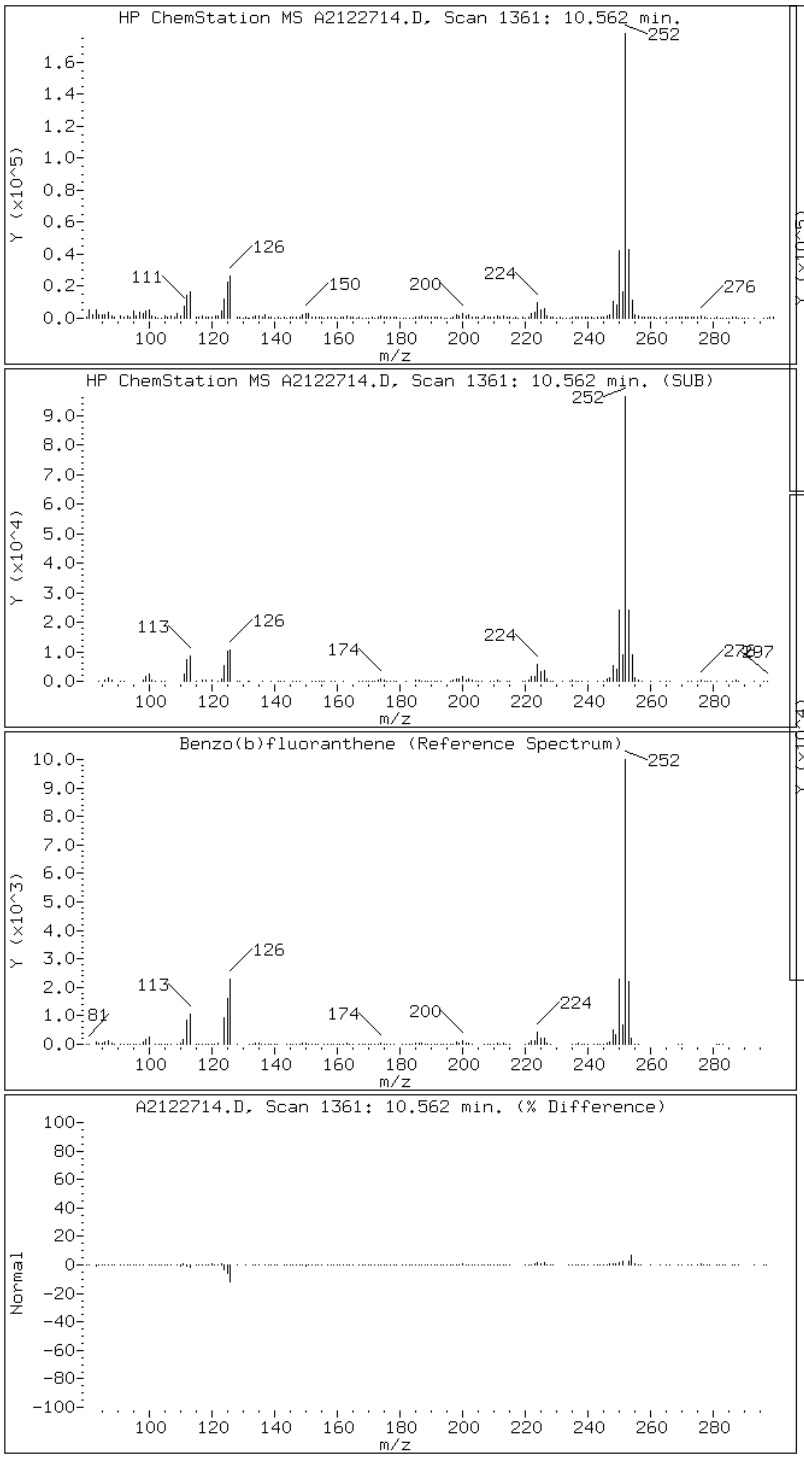
Data File: A2122714.D

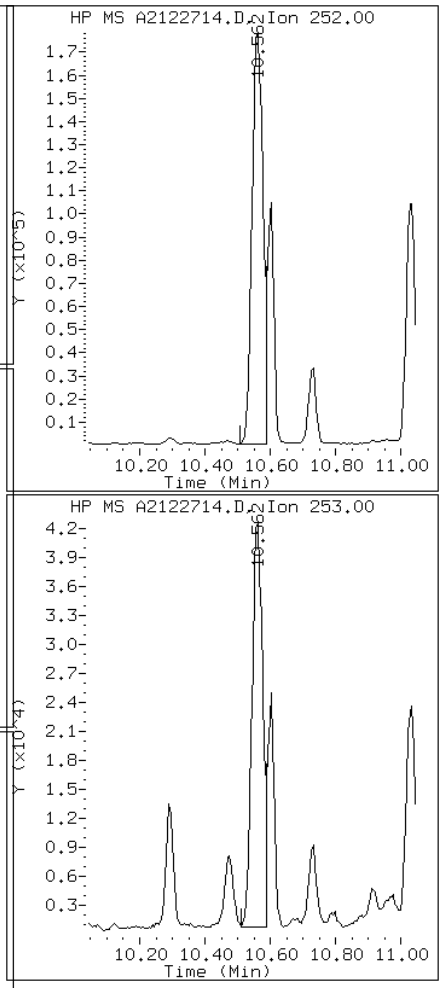
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





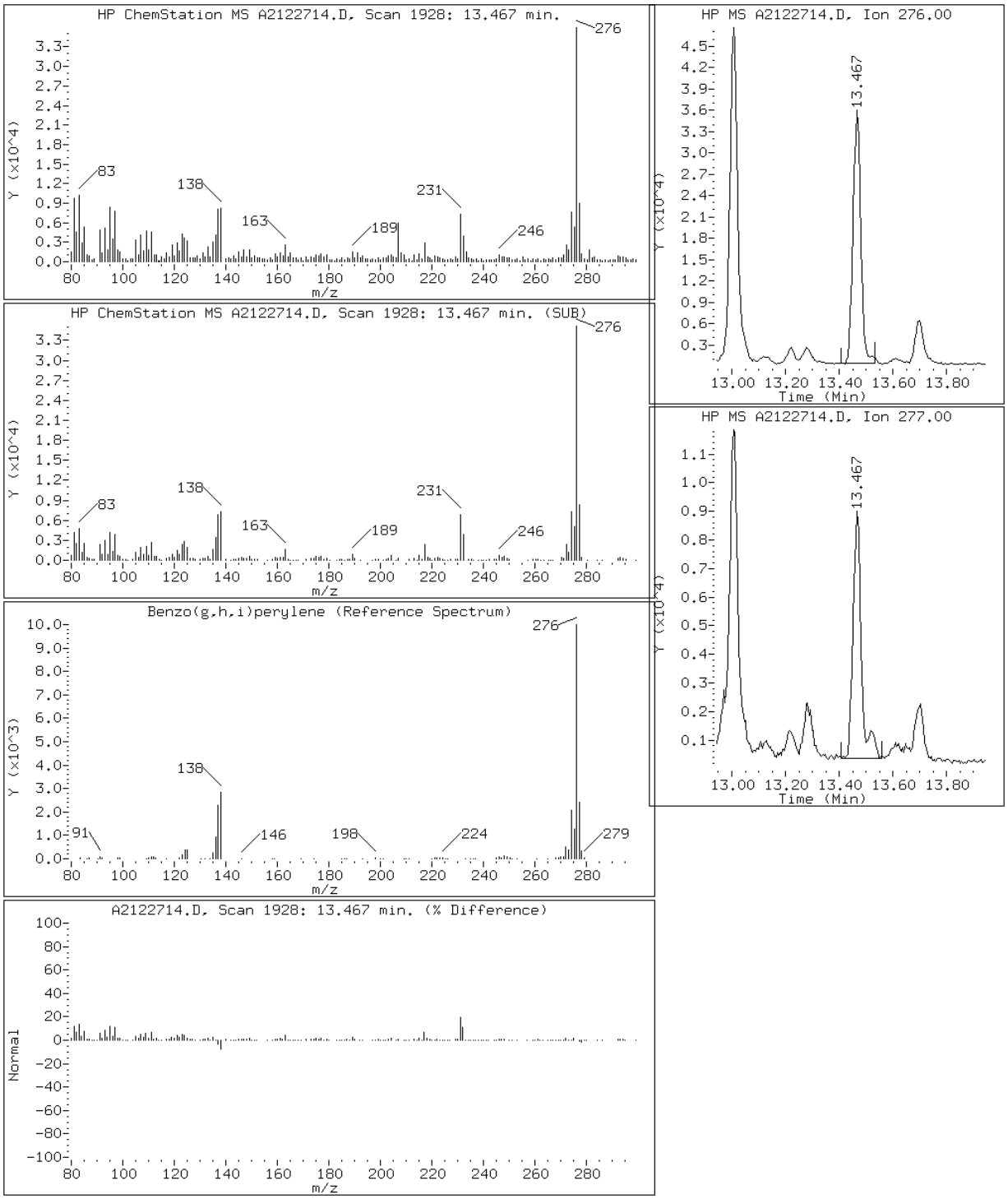
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



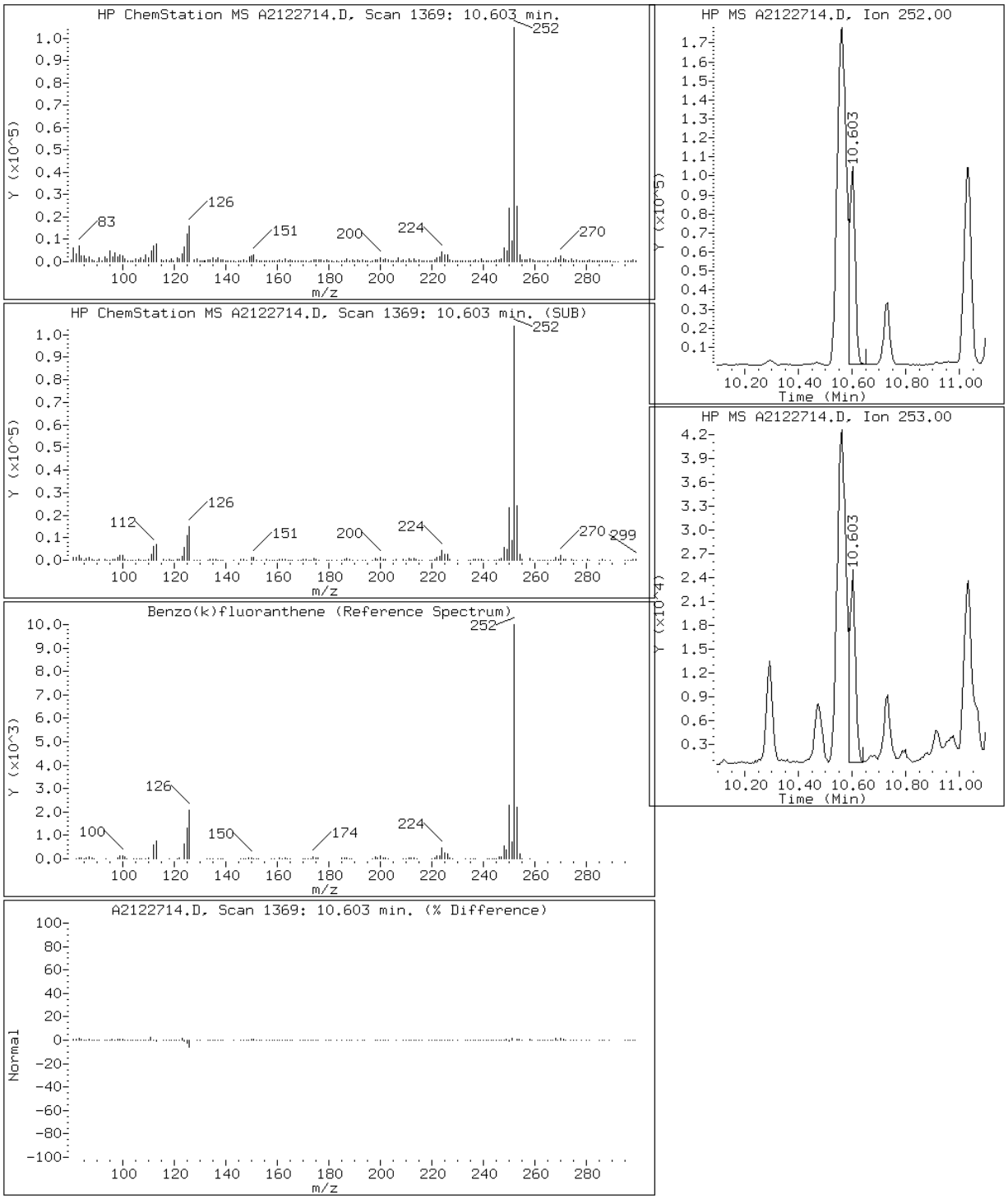
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



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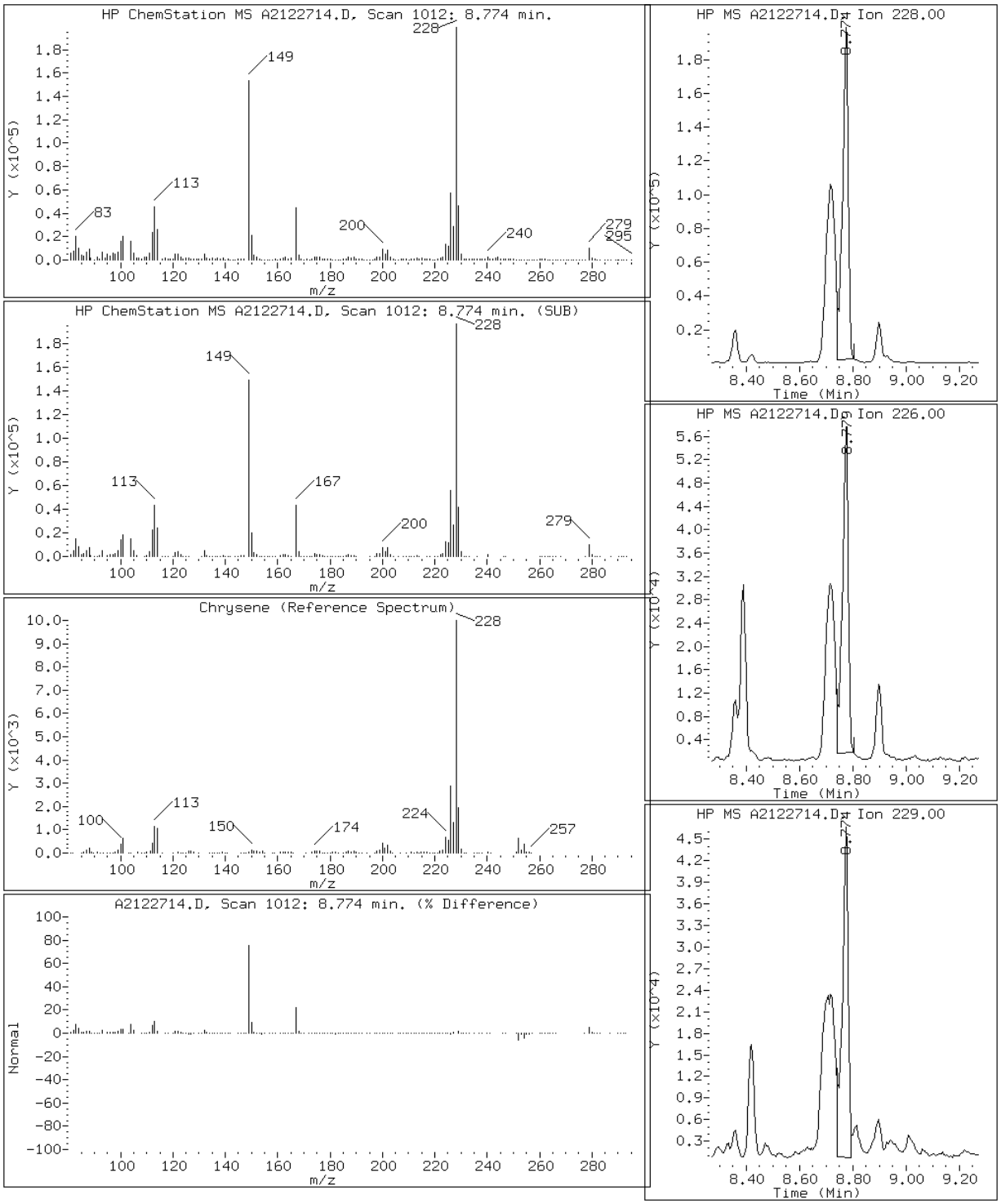
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

17 Chrysene



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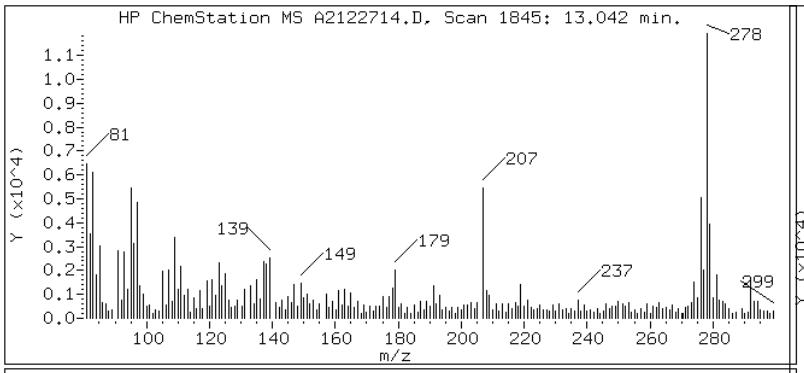
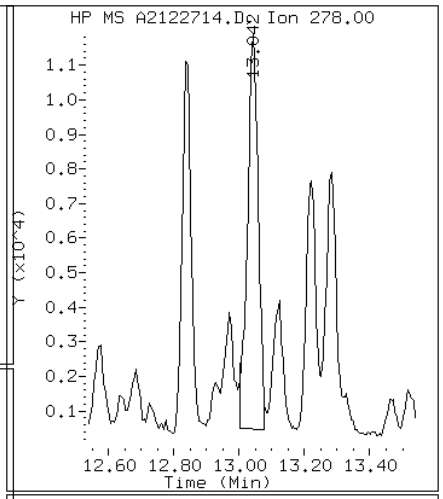
Date: 27-DEC-2012 11:43

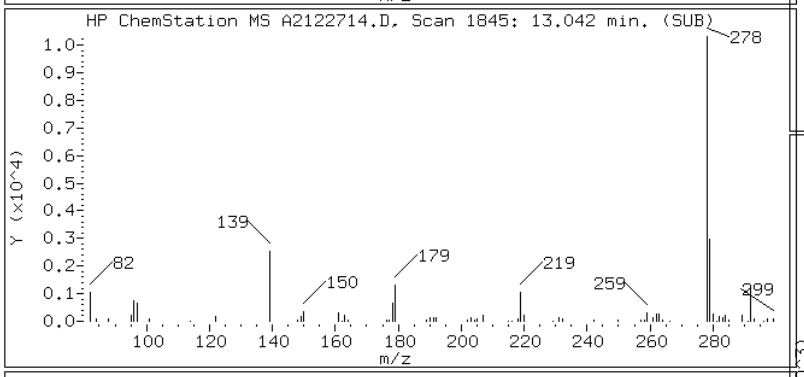
Client ID: CV0511R-CS Instrument: TSMA5973.i

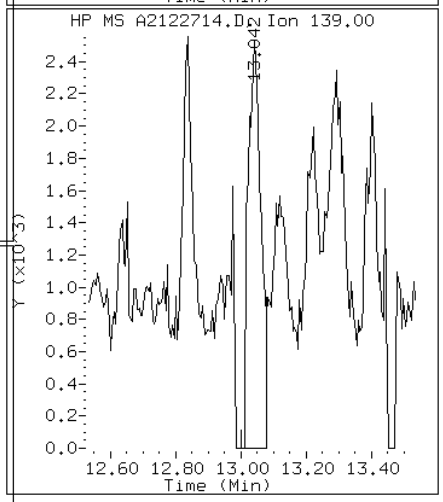
Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

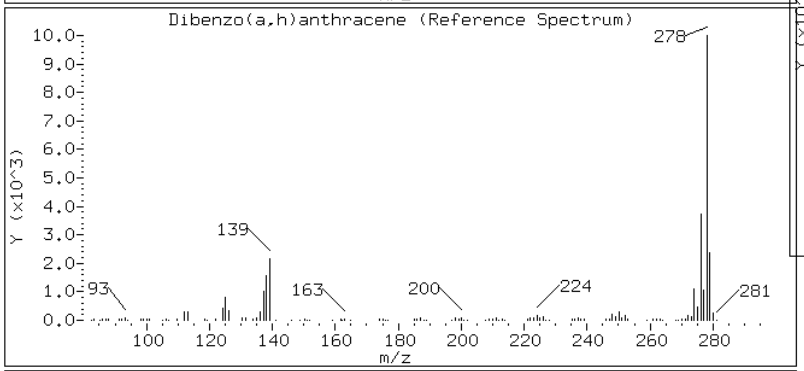
23 Dibenzo(a,h)anthracene

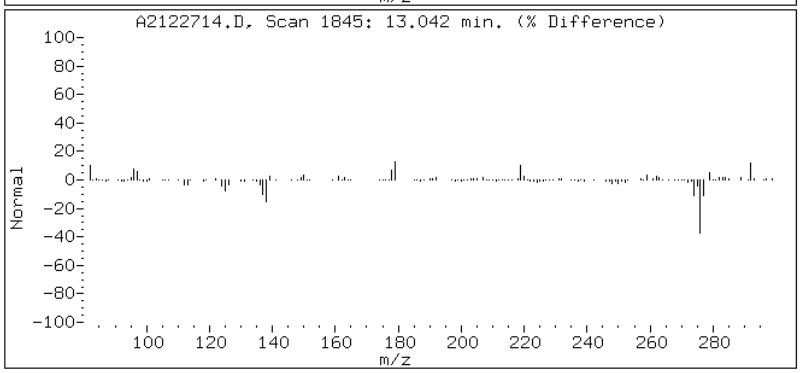












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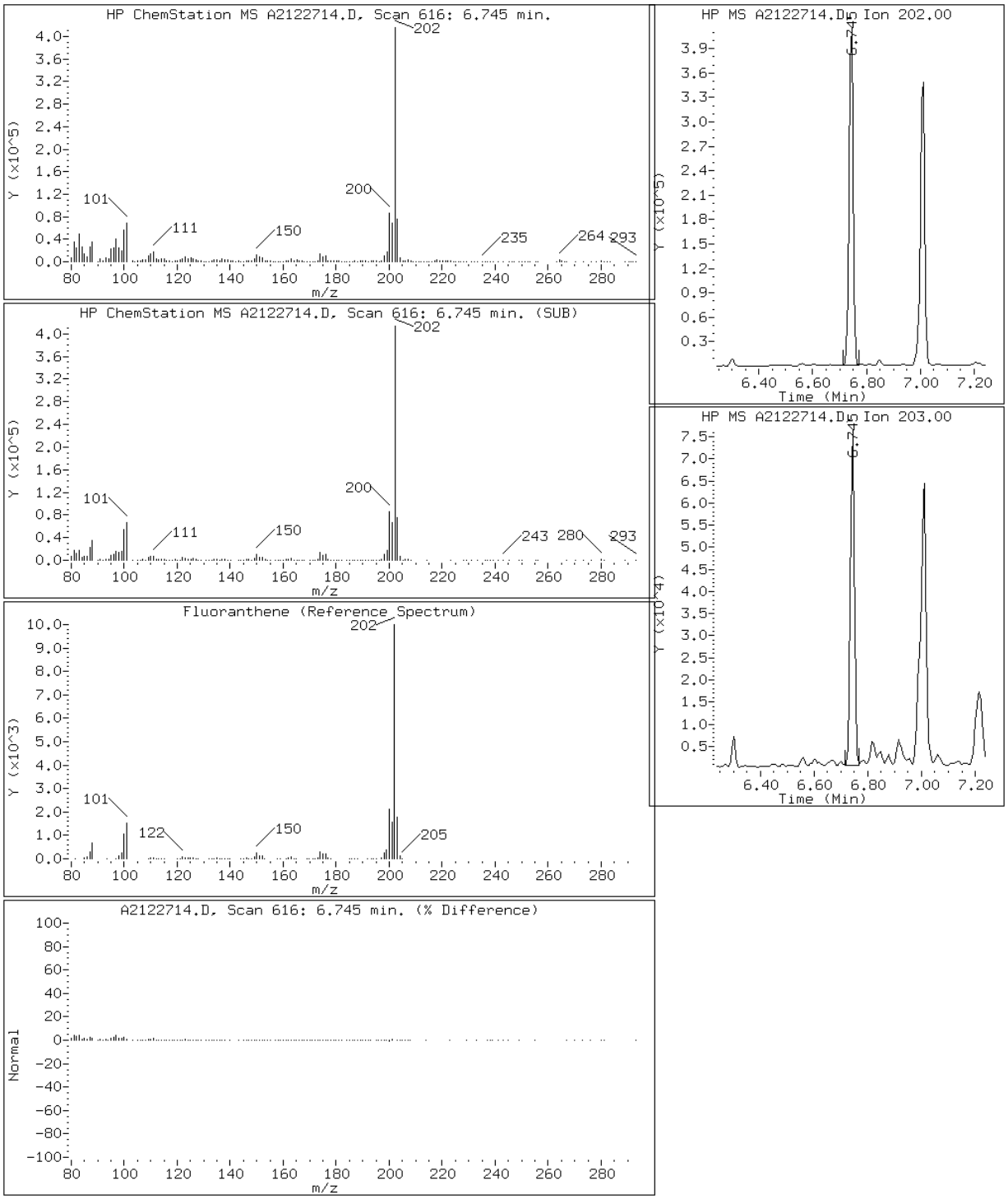
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



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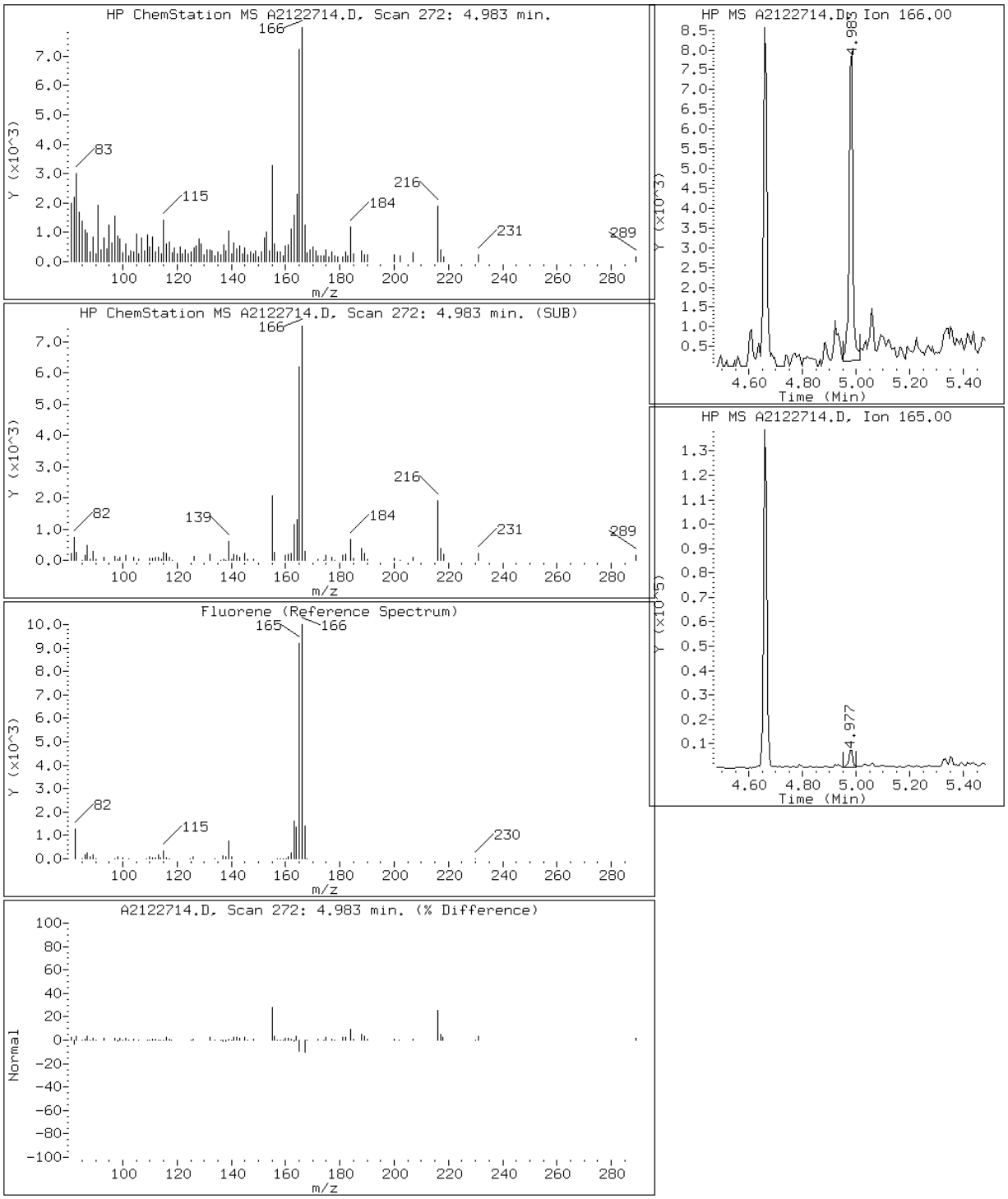
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

8 Fluorene



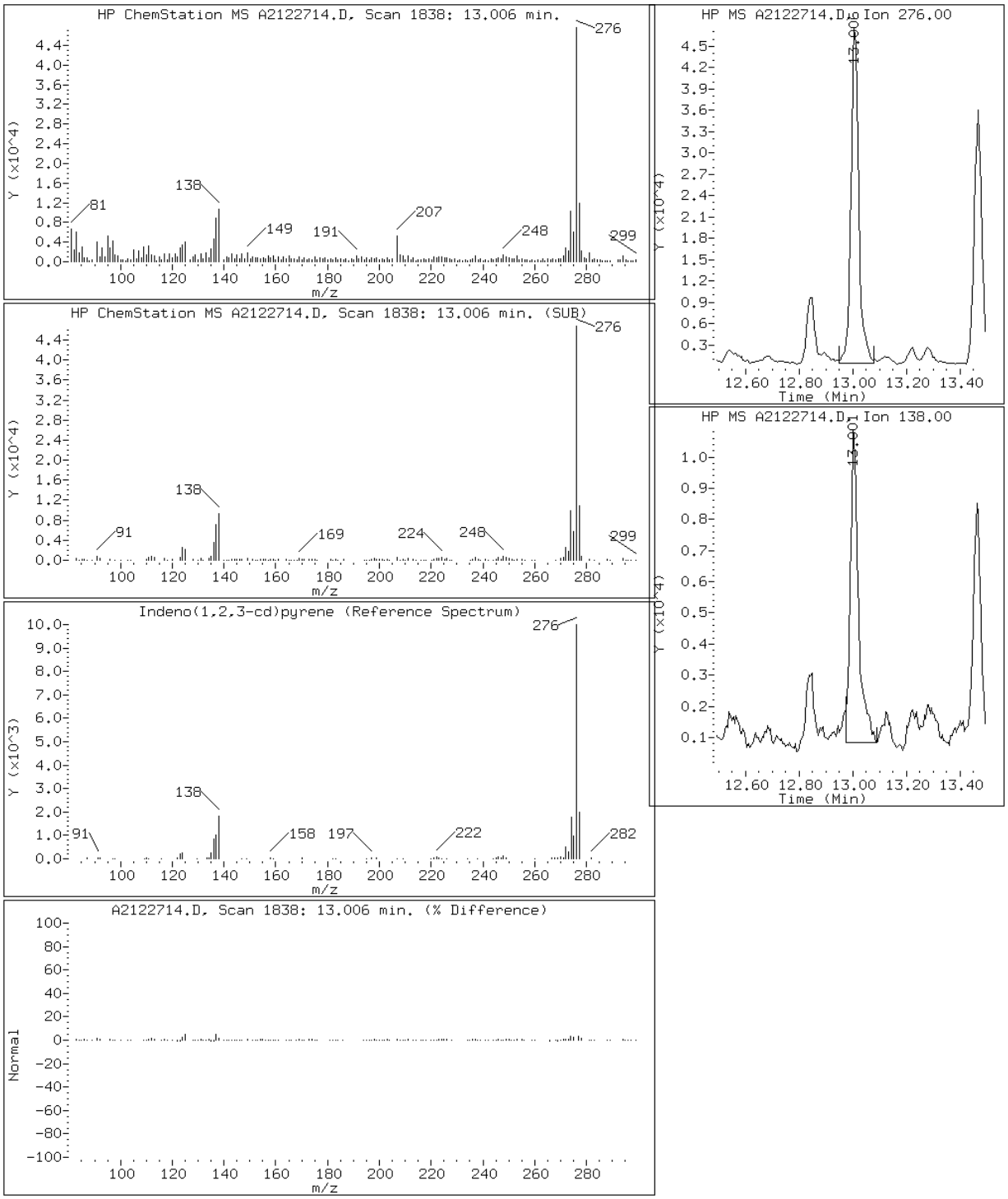
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

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



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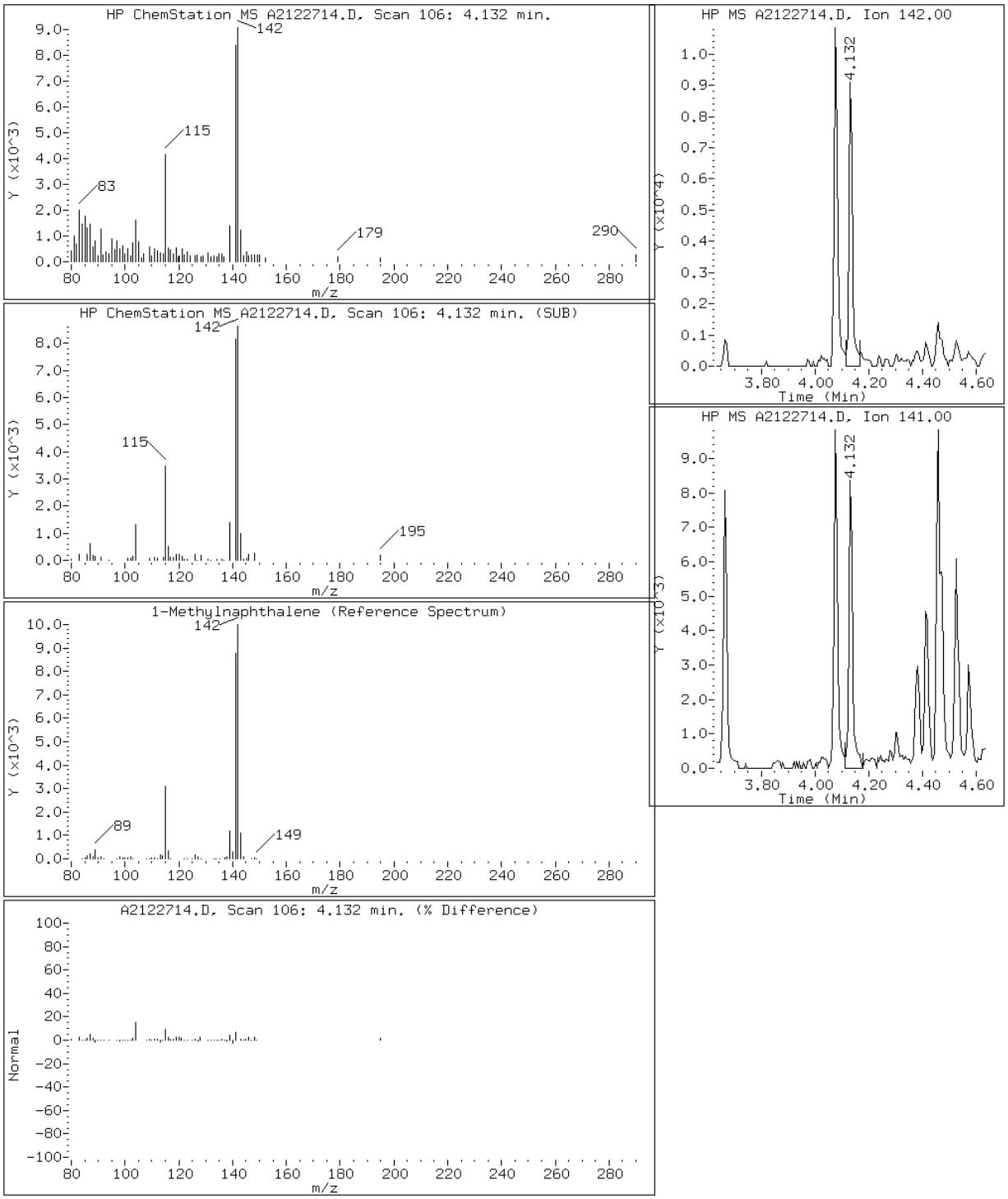
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



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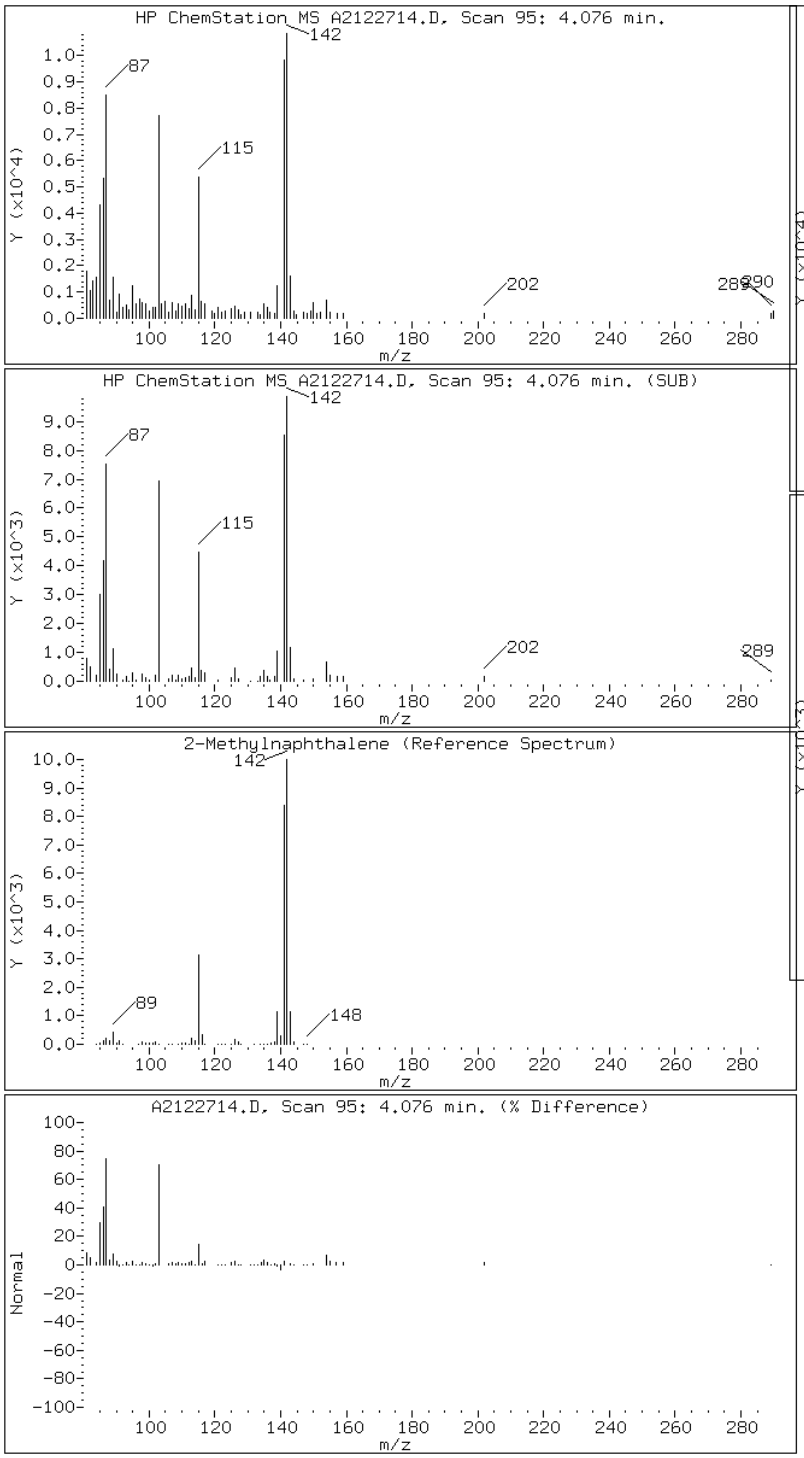
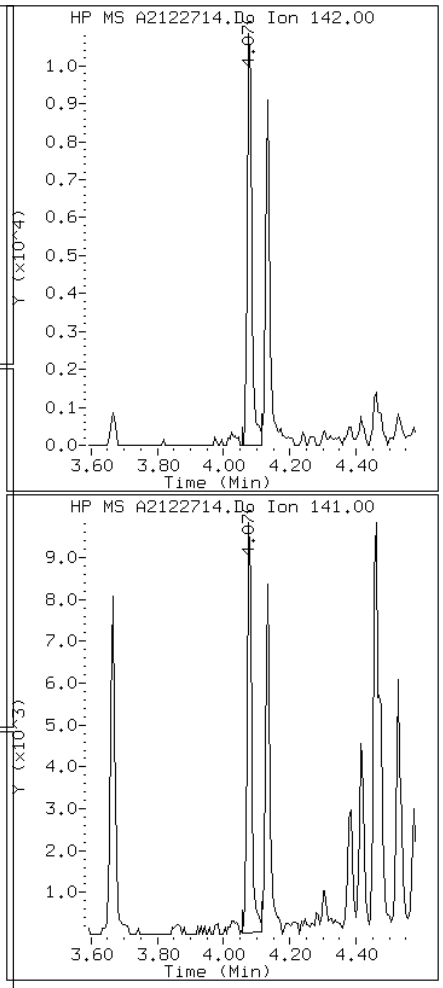
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

3 2-Methylnaphthalene





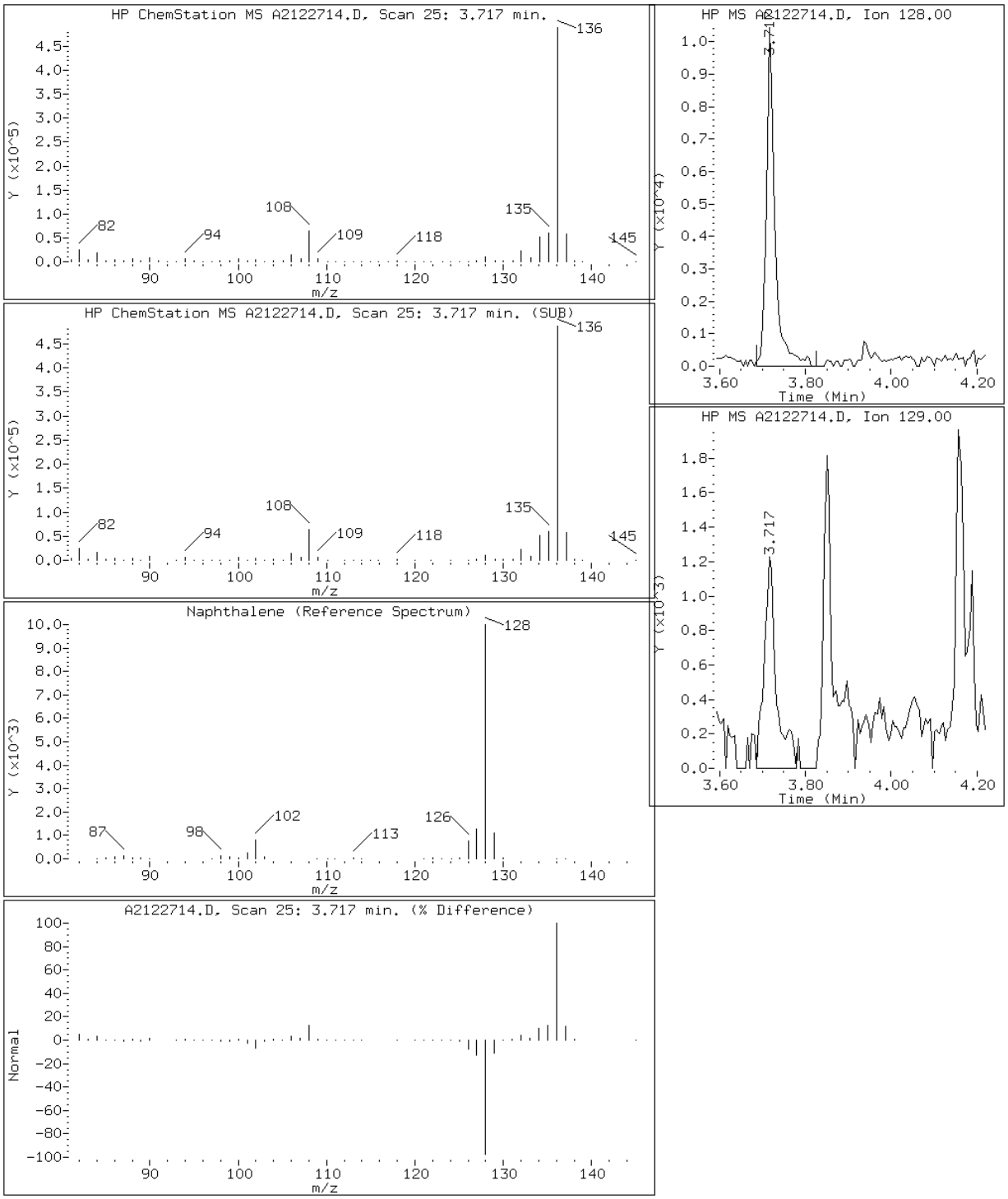
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

2 Naphthalene



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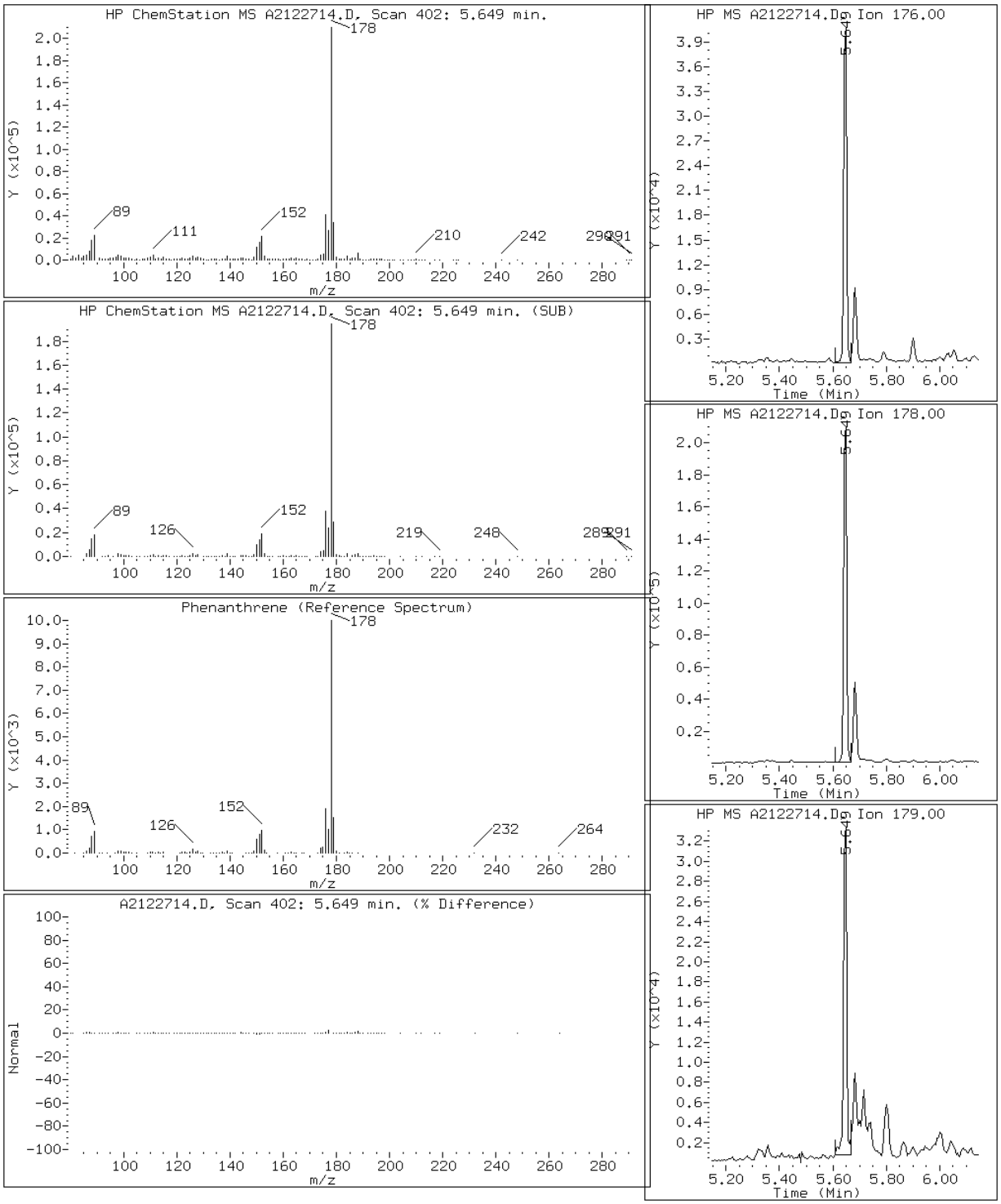
Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



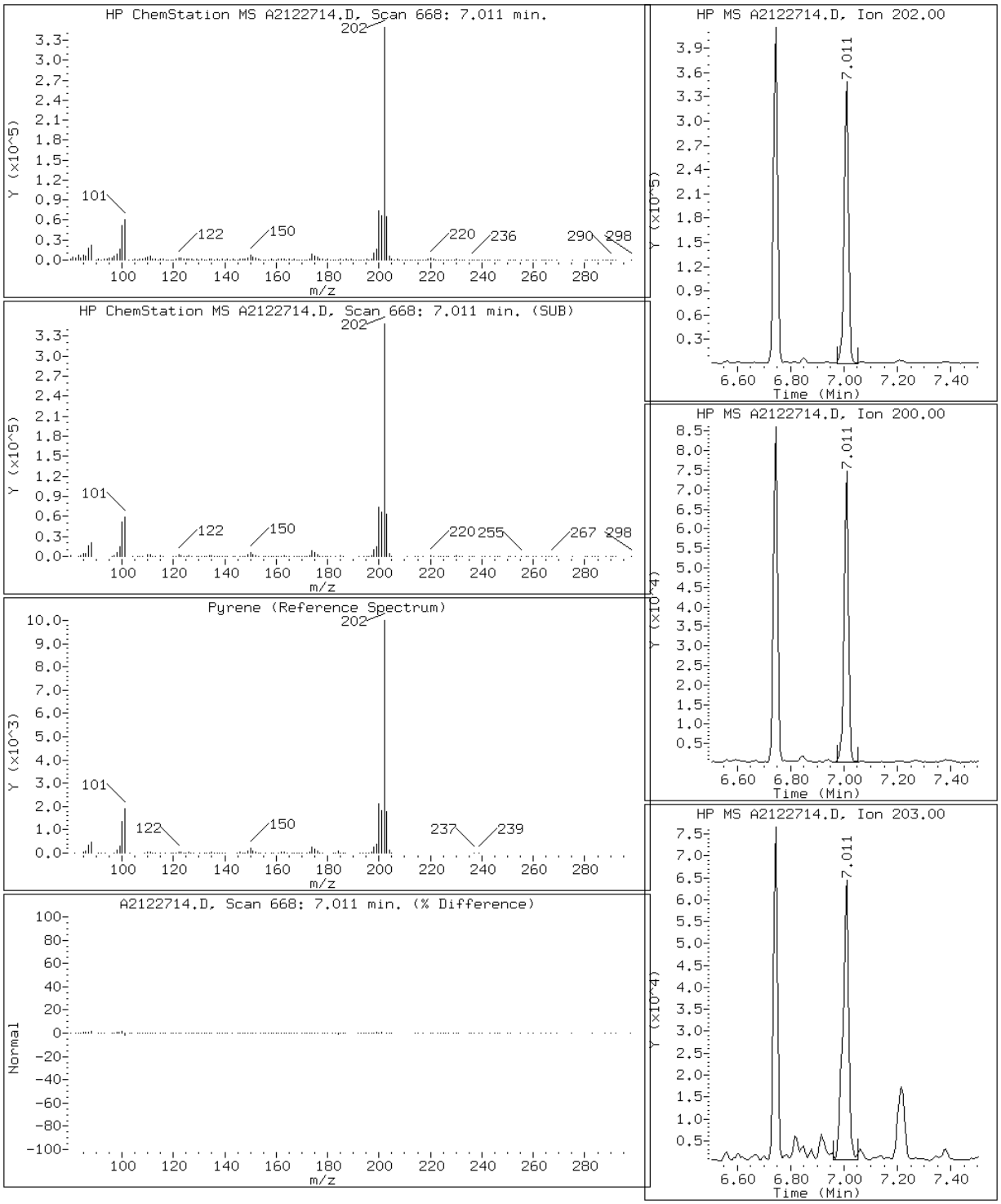
Data File: A2122714.D

Date: 27-DEC-2012 11:43

Client ID: CV0511R-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-51-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511S-CS | Lab Sample ID: 680-85785-52

Matrix: Solid | Lab File ID: A2122624.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.24(g) | Date Analyzed: 12/26/2012 20:07

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

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

% Moisture: 37.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9.1	J	11	0.91
208-96-8	Acenaphthylene	6.6	J	11	0.83
120-12-7	Anthracene	22		11	1.0
56-55-3	Benzo[a]anthracene	130	B	11	0.98
50-32-8	Benzo[a]pyrene	190	B	11	1.1
205-99-2	Benzo[b]fluoranthene	290	B	11	1.5
191-24-2	Benzo[g,h,i]perylene	100	B	11	1.7
207-08-9	Benzo[k]fluoranthene	100	B	11	1.0
218-01-9	Chrysene	160	B	11	1.2
53-70-3	Dibenz(a,h)anthracene	34	B	11	1.0
206-44-0	Fluoranthene	240	B	11	0.95
86-73-7	Fluorene	7.3	J	11	0.82
193-39-5	Indeno[1,2,3-cd]pyrene	120	B	11	1.7
90-12-0	1-Methylnaphthalene	17		11	0.83
91-57-6	2-Methylnaphthalene	22		11	0.82
91-20-3	Naphthalene	22		11	0.82
85-01-8	Phenanthrene	120		11	0.69
129-00-0	Pyrene	200	B	11	0.82

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\TSMA5973.i\2A121226.b\A2122624.D
Lab Smp Id: 680-85785-A-52-C Client Smp ID: CV0511S-CS
Inj Date : 26-DEC-2012 20:07
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-52-C~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: 6
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	30.240	Weight Extracted
M	37.014	% 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	3.705	3.711	(1.000)	1500288	40.0000		
2 Naphthalene	128	3.716	3.721	(1.003)	17871	0.42291	22	
3 2-Methylnaphthalene	142	4.074	4.079	(1.100)	11290	0.42276	22	
4 1-Methylnaphthalene	142	4.131	4.136	(1.115)	9188	0.33246	17	
* 5 Acenaphthene-d10	164	4.664	4.663	(1.000)	787169	40.0000		
6 Acenaphthylene	152	4.582	4.587	(0.982)	5289	0.12537	6.6(a)	
7 Acenaphthene	153	4.679	4.684	(1.003)	4501	0.17308	9.1(aQ)	
8 Fluorene	166	4.981	4.986	(1.068)	4146	0.13997	7.3(a)	
* 9 Phenanthrene-d10	188	5.637	5.637	(1.000)	1213634	40.0000		
10 Phenanthrene	176	5.652	5.652	(1.003)	17491	2.20765	120	
11 Anthracene	178	5.688	5.688	(1.009)	17473	0.42135	22	
$ 12 o-Terphenyl	230	5.909	5.909	(1.048)	78556	3.06279	160	
13 Fluoranthene	202	6.744	6.749	(1.196)	222268	4.61323	240	
* 14 Chrysene-d12	240	8.747	8.747	(1.000)	1508027	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	7.010	7.015	(0.801)	192163	3.73879	200	
16 Benzo(a)anthracene	226	8.721	8.711	(0.997)	34204	2.48647	130	
17 Chrysene	228	8.778	8.783	(1.004)	140772	3.01196	160	
* 18 Perylene-d12	264	11.247	11.252	(1.000)	1280536	40.0000		
19 Benzo(b)fluoranthene	252	10.556	10.555	(0.939)	215900	5.46720	290	
20 Benzo(k)fluoranthene	252	10.597	10.607	(0.942)	79121	1.96176	100	
21 Benzo(a)pyrene	252	11.124	11.119	(0.989)	127101	3.56212	190	
22 Indeno(1,2,3-cd)pyrene	276	13.015	13.010	(1.157)	81720	2.27257	120	
23 Dibenzo(a,h)anthracene	278	13.051	13.051	(1.160)	23475	0.64437	34	
24 Benzo(g,h,i)perylene	276	13.481	13.460	(1.199)	69754	1.95803	100	

QC Flag Legend

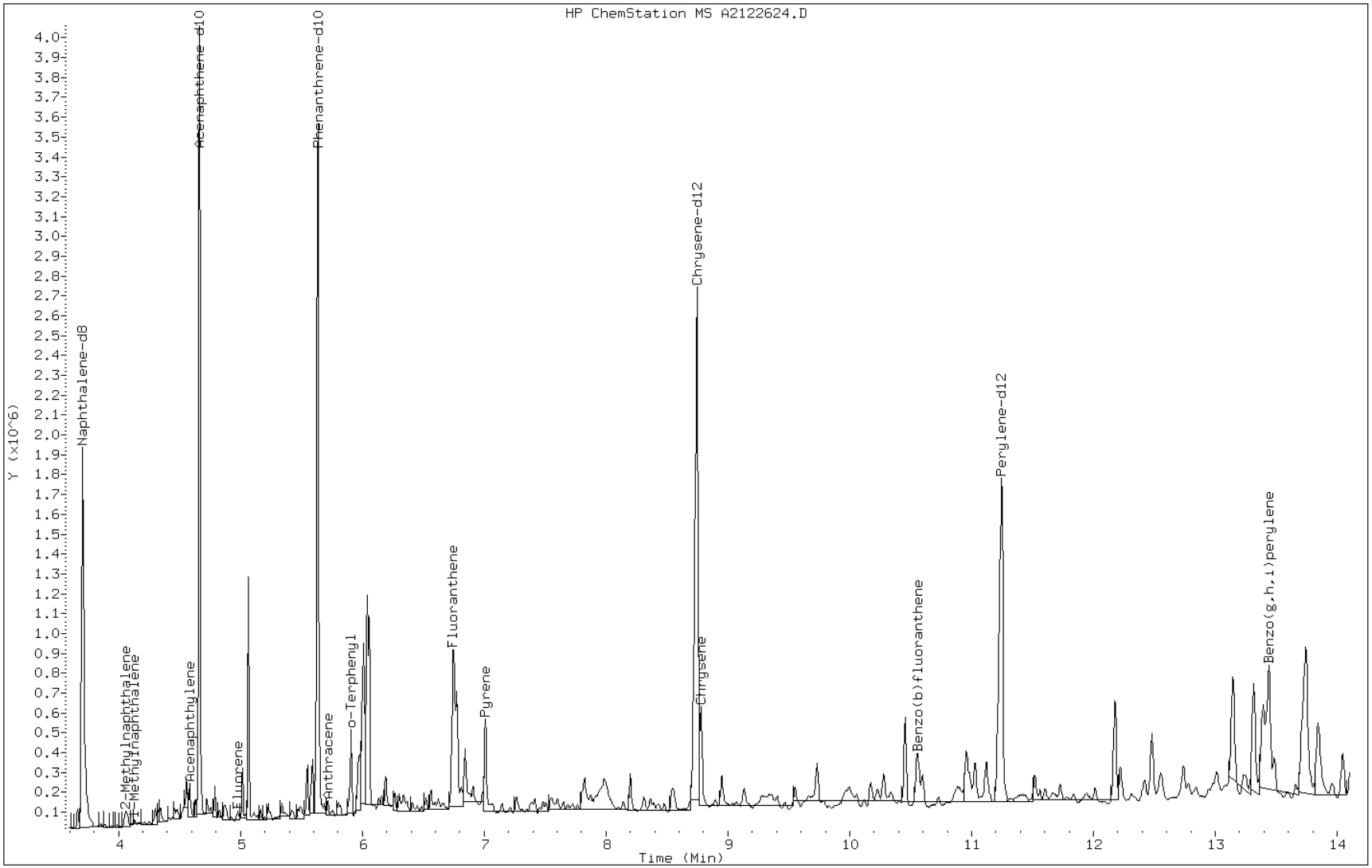
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW



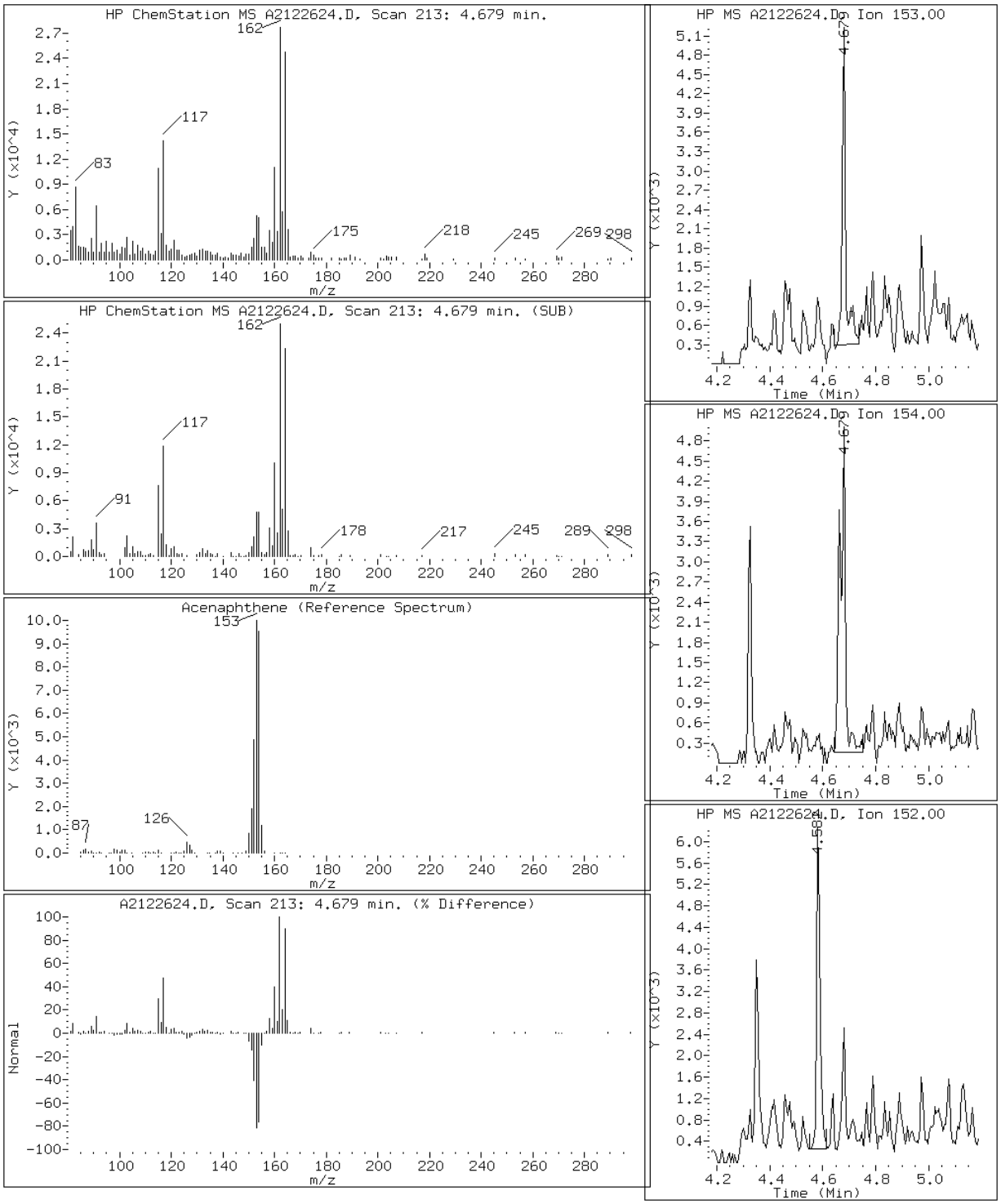
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

7 Acenaphthene



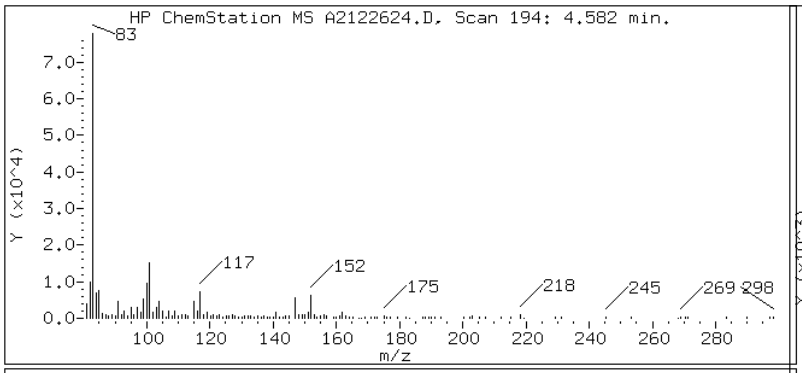
Data File: A2122624.D

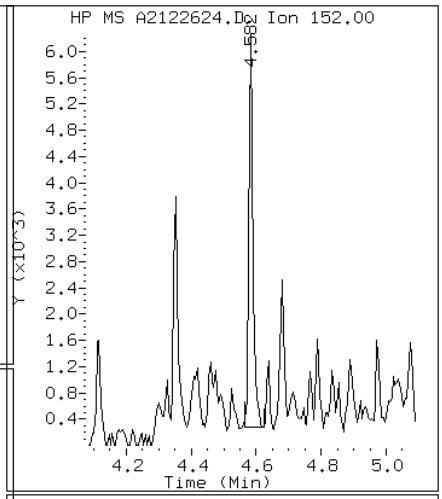
Date: 26-DEC-2012 20:07

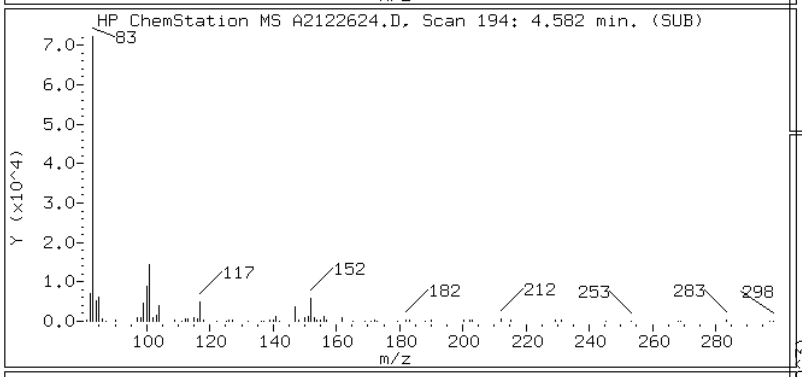
Client ID: CV0511S-CS Instrument: TSMA5973.i

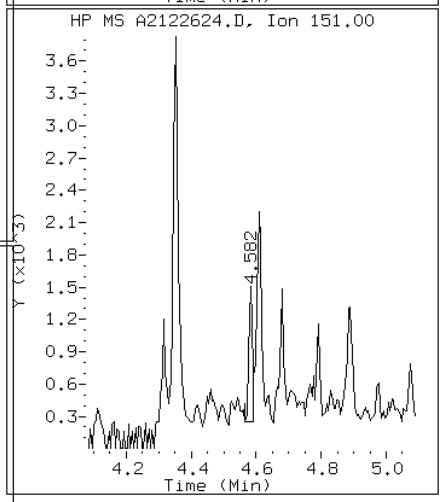
Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

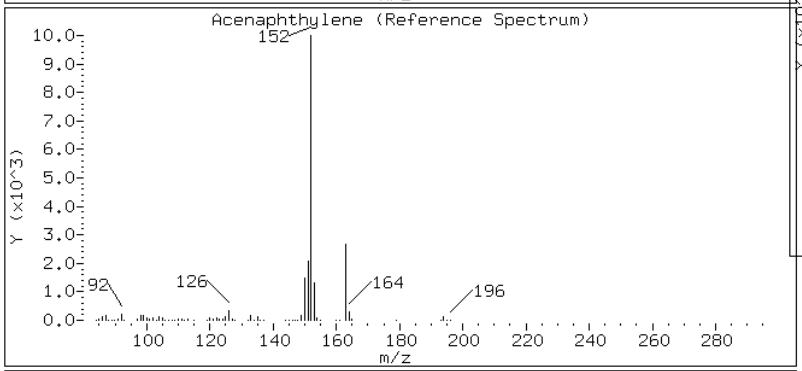
6 Acenaphthylene

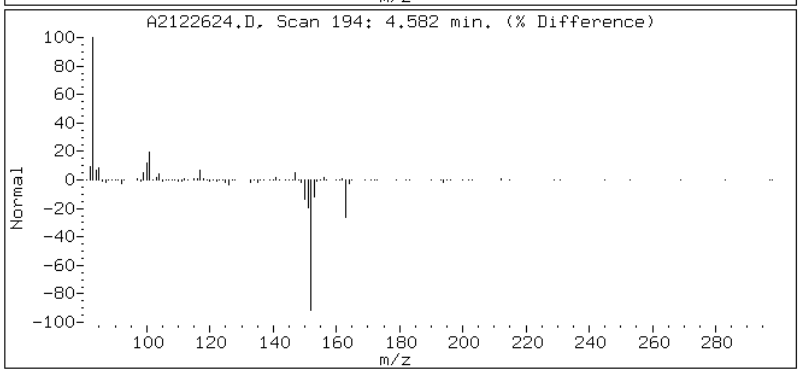












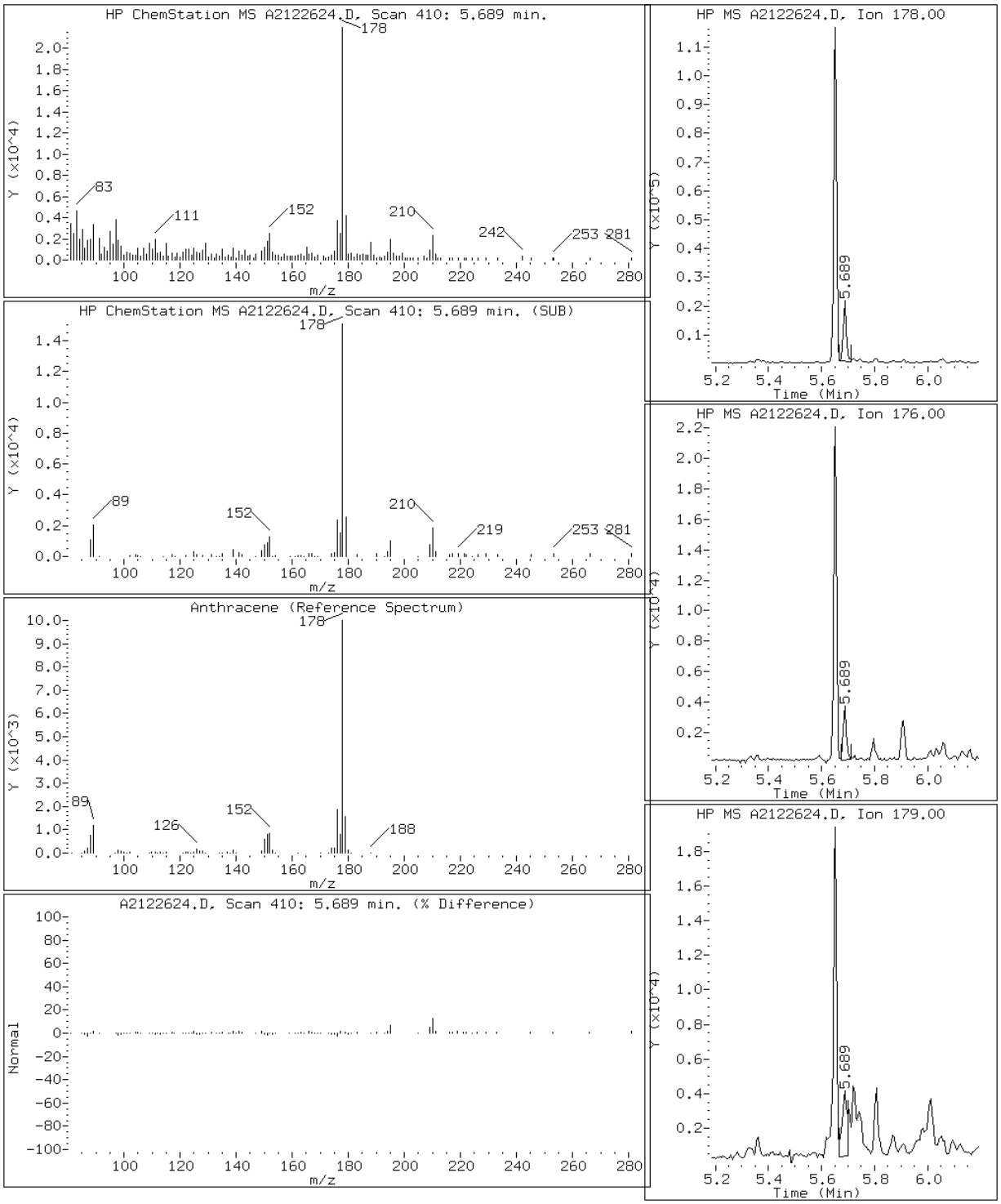
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

11 Anthracene



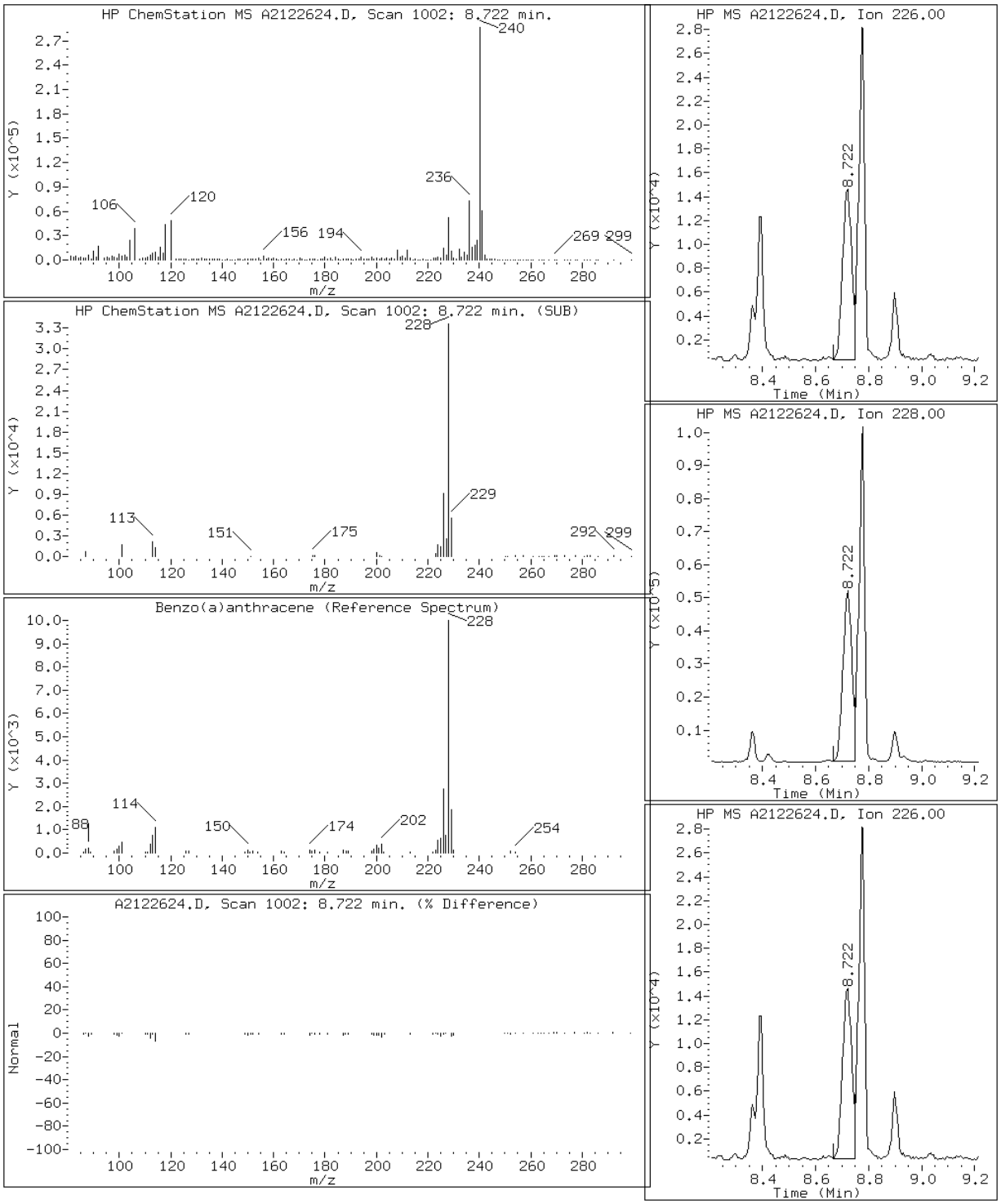
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



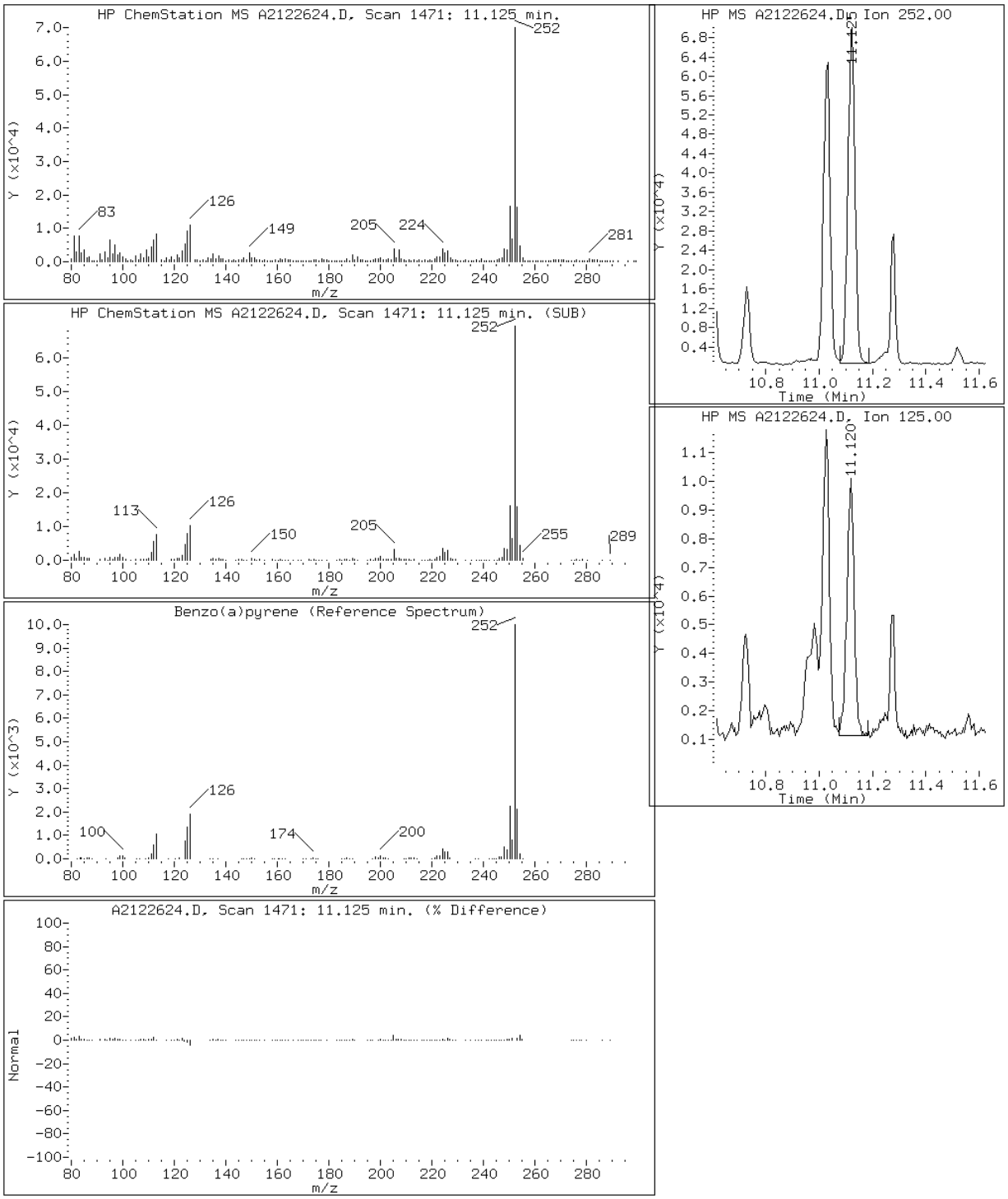
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



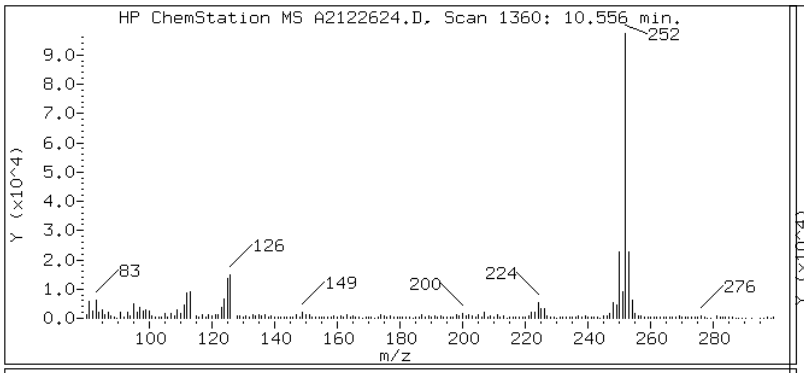
Data File: A2122624.D

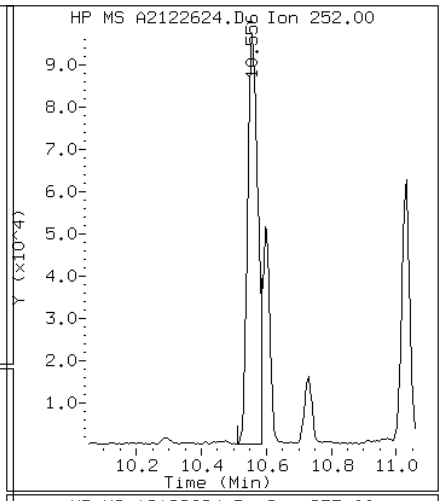
Date: 26-DEC-2012 20:07

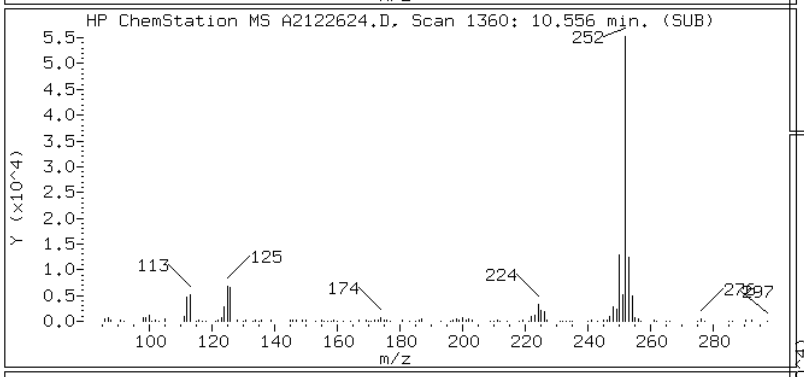
Client ID: CV0511S-CS Instrument: TSMA5973.i

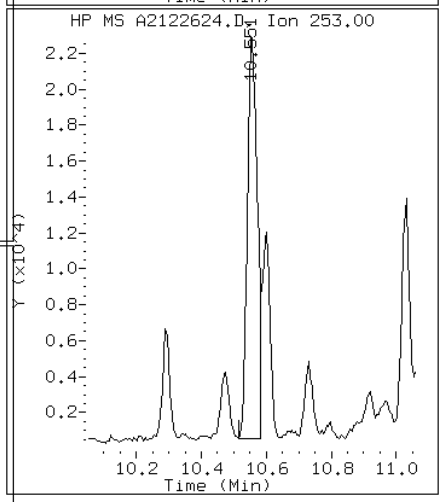
Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

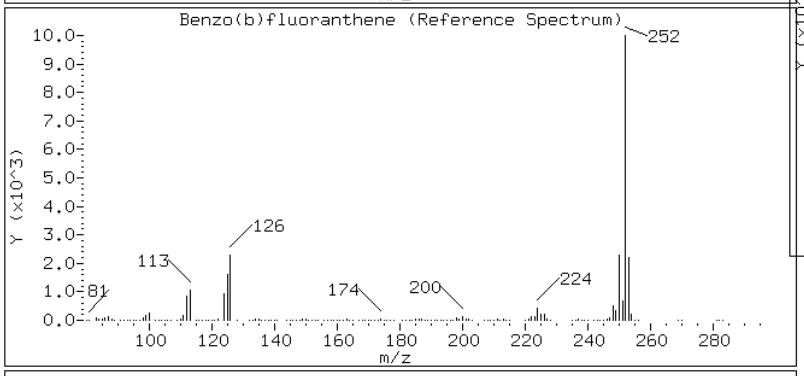
19 Benzo(b)fluoranthene

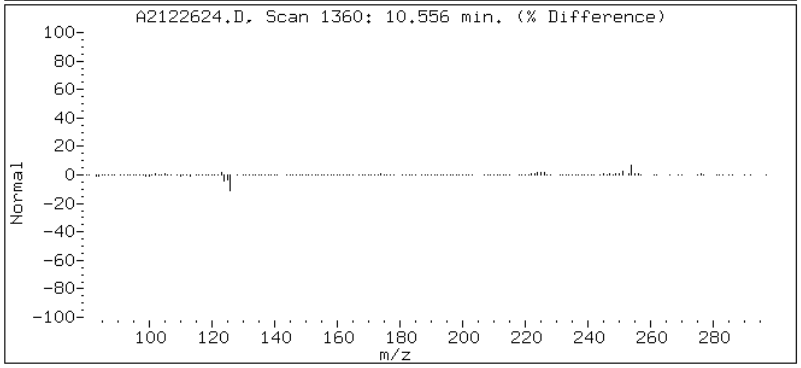












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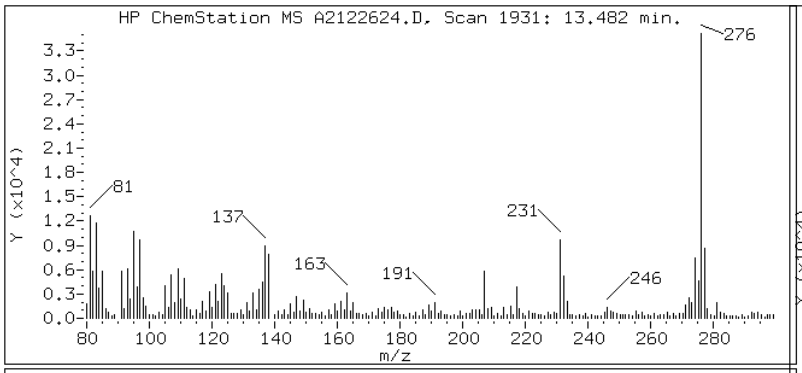
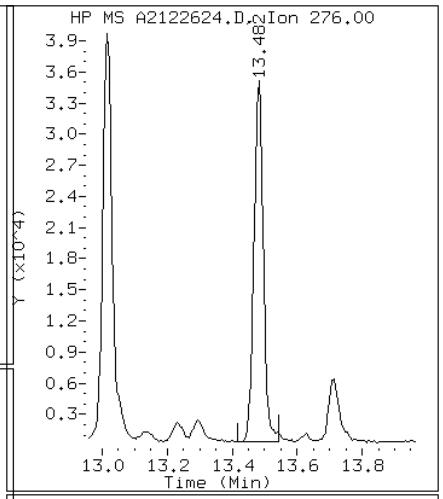
Date: 26-DEC-2012 20:07

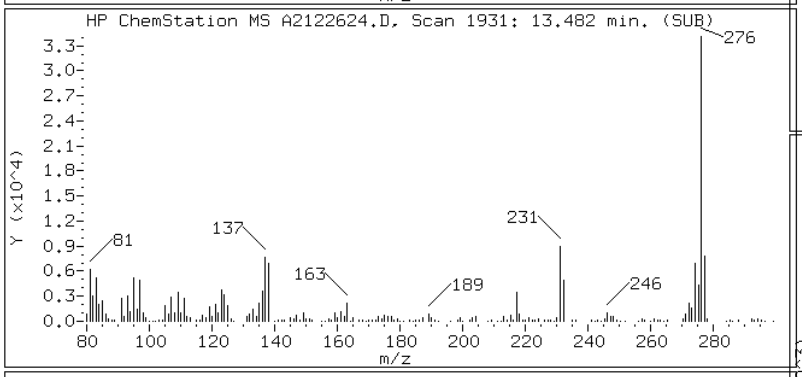
Client ID: CV0511S-CS Instrument: TSMA5973.i

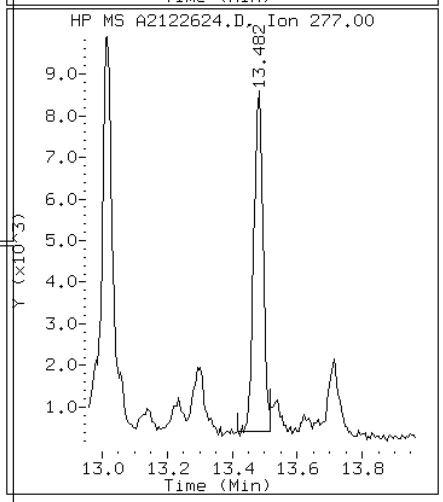
Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

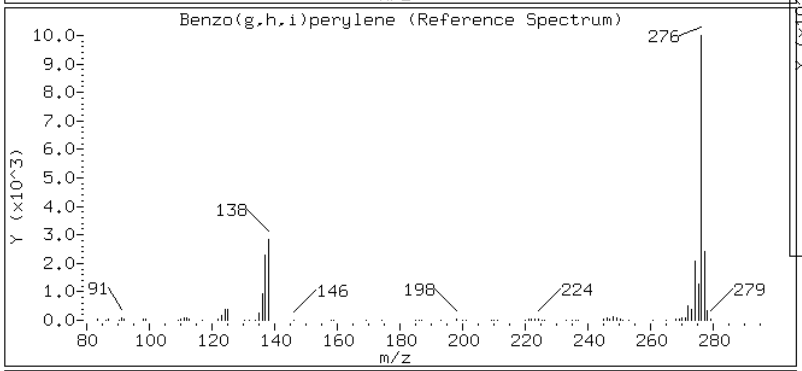
24 Benzo(g,h,i)perylene

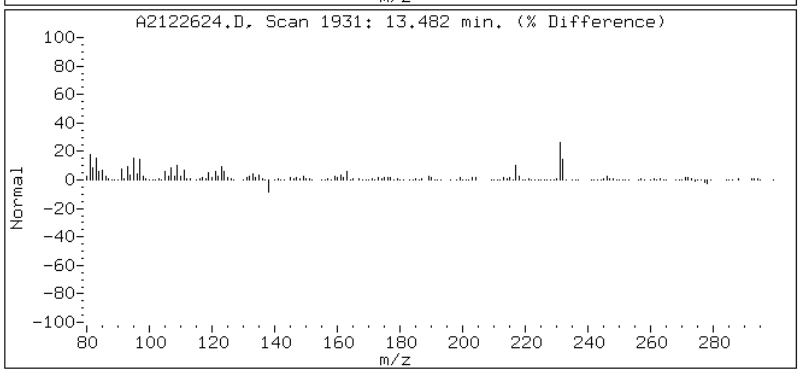












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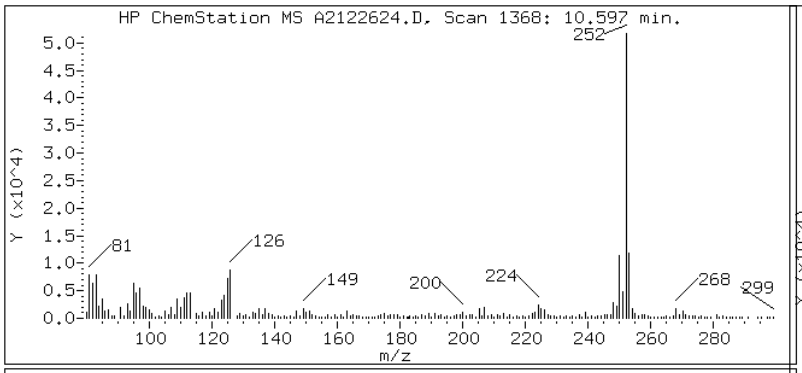
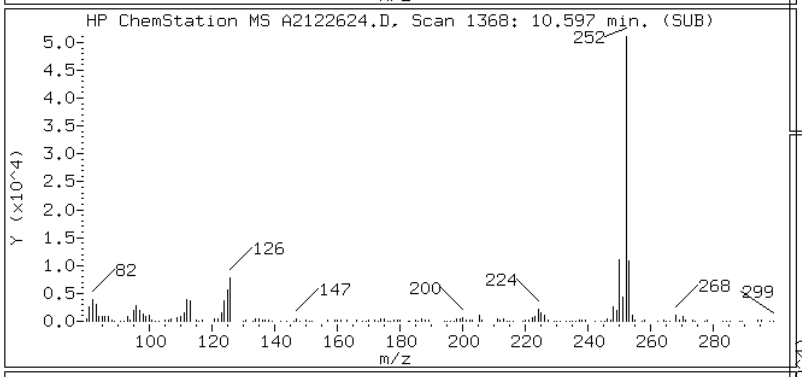
Date: 26-DEC-2012 20:07

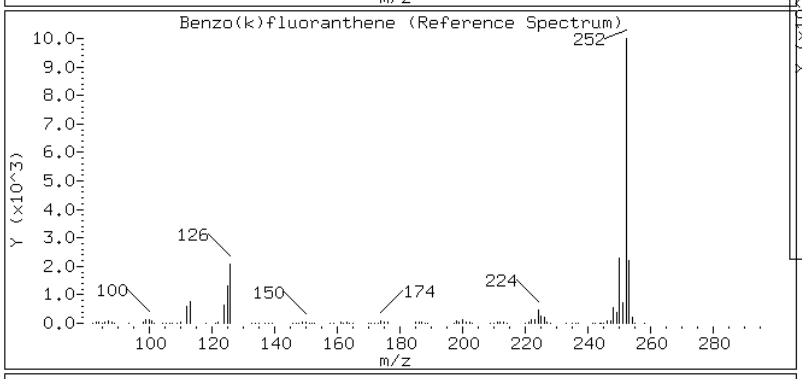
Client ID: CV0511S-CS Instrument: TSMA5973.i

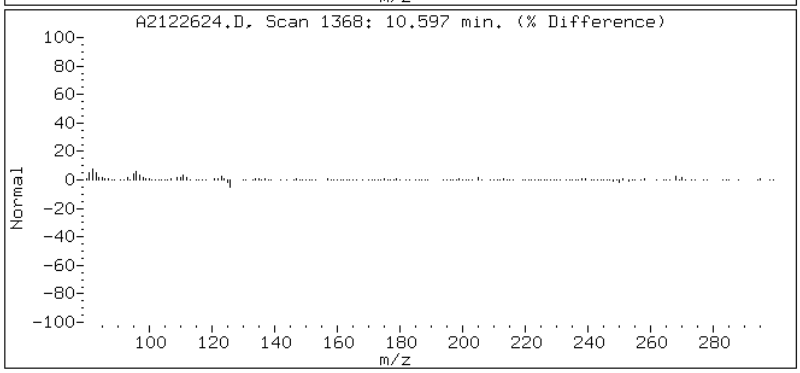
Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

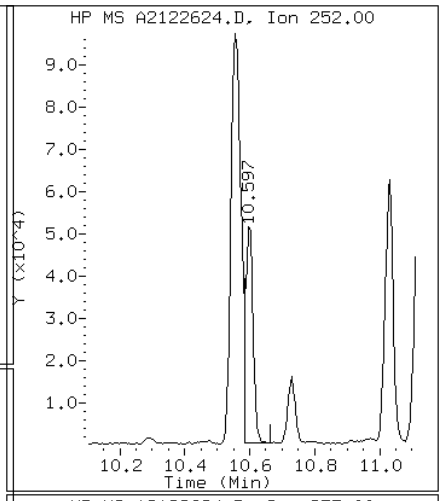
20 Benzo(k)fluoranthene

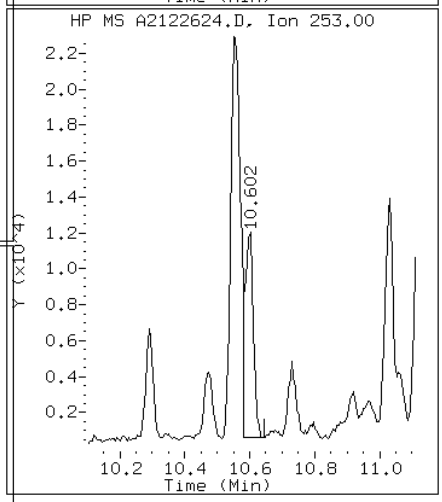












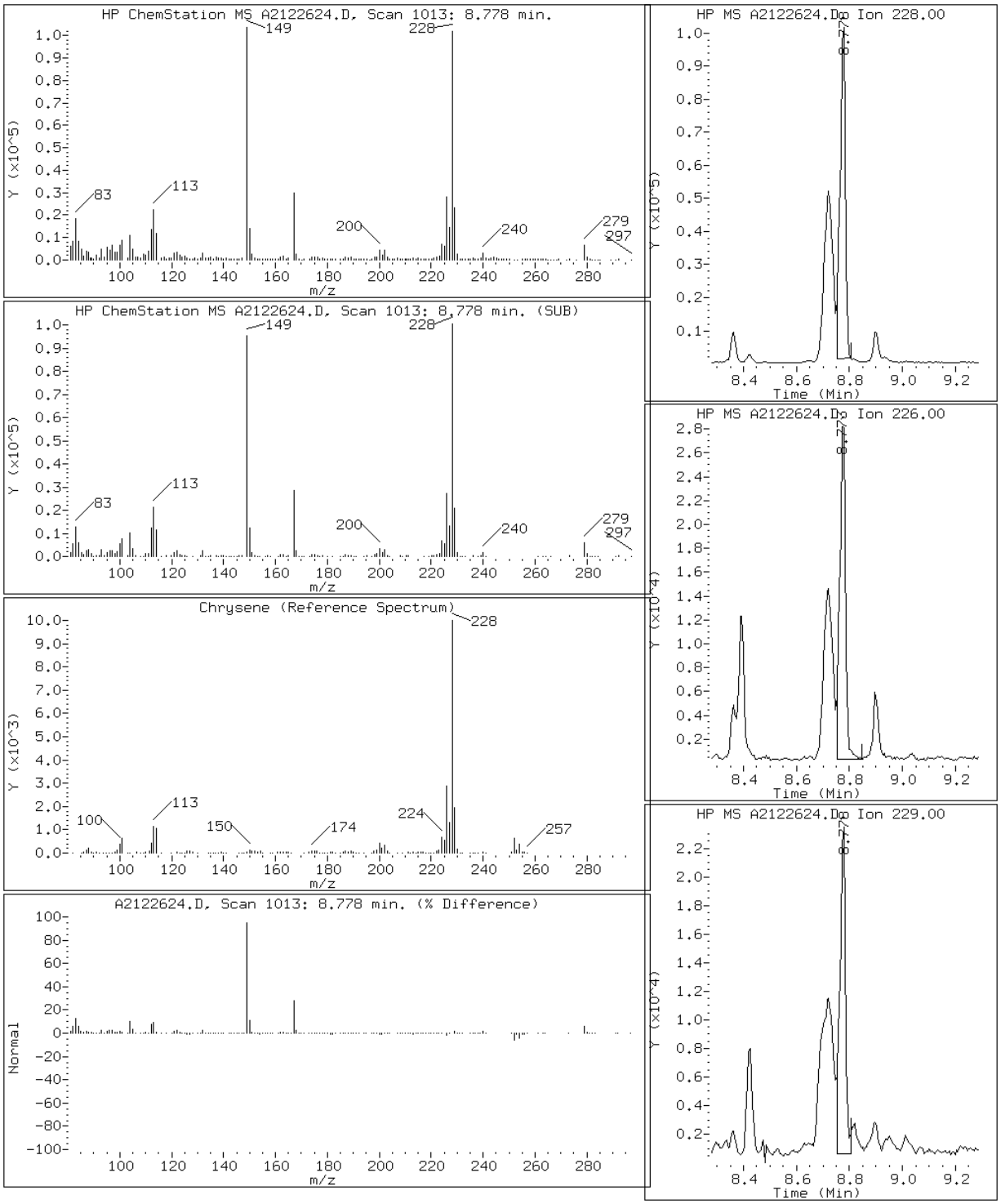
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

17 Chrysene



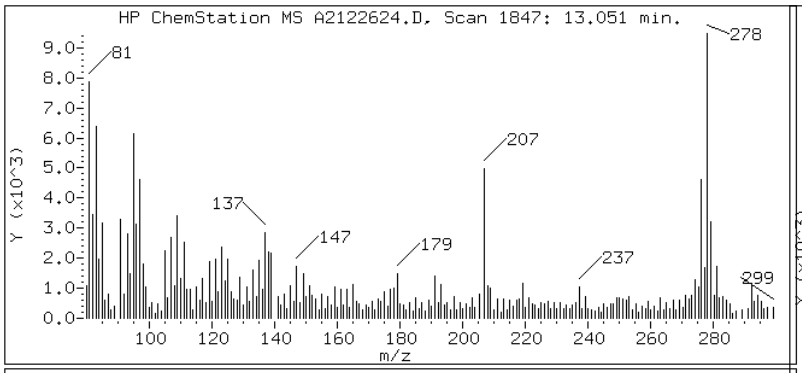
Data File: A2122624.D

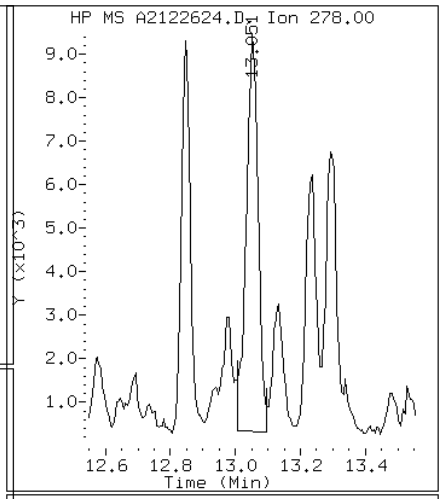
Date: 26-DEC-2012 20:07

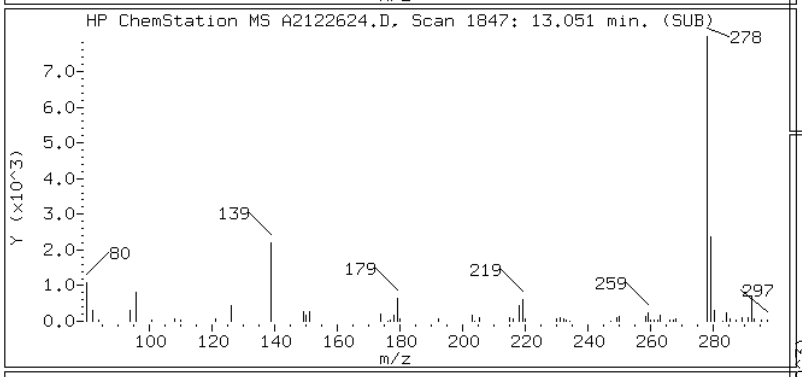
Client ID: CV0511S-CS Instrument: TSMA5973.i

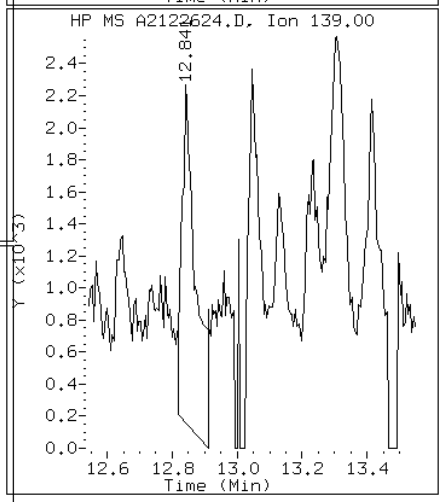
Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

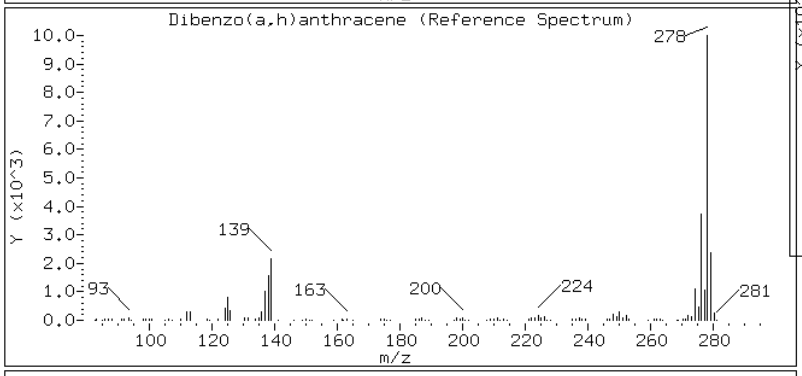
23 Dibenzo(a,h)anthracene

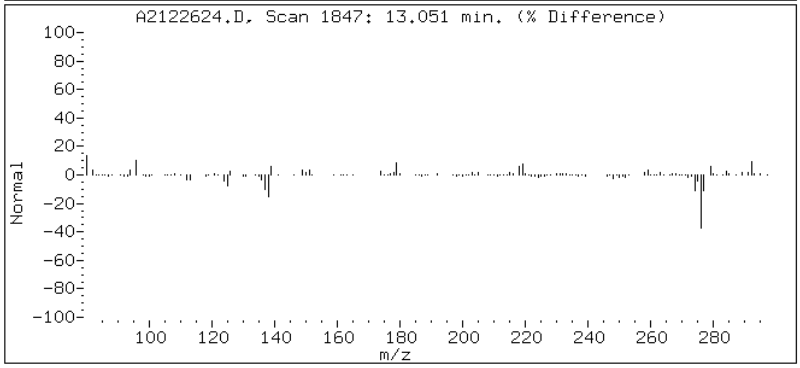












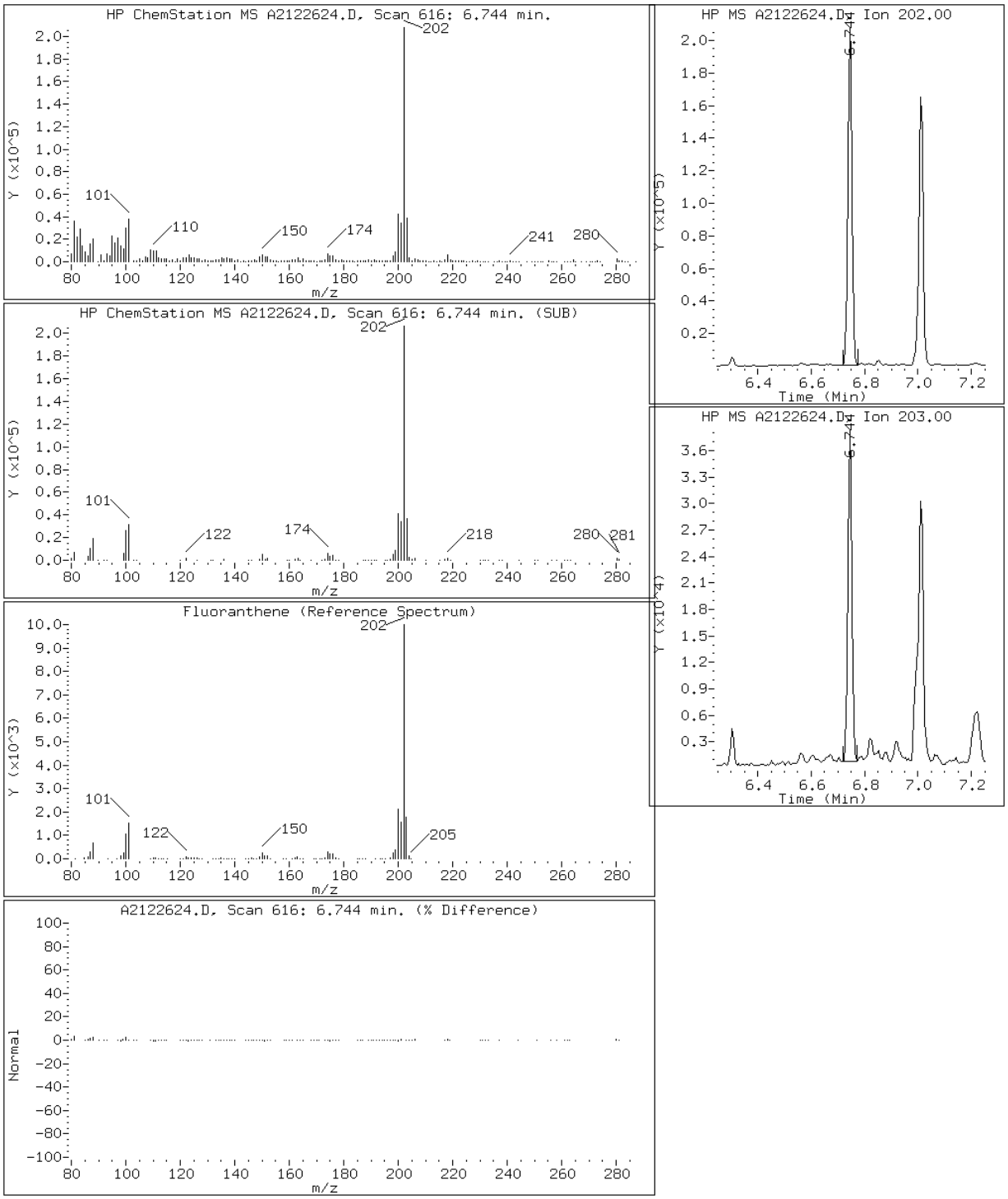
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

13 Fluoranthene



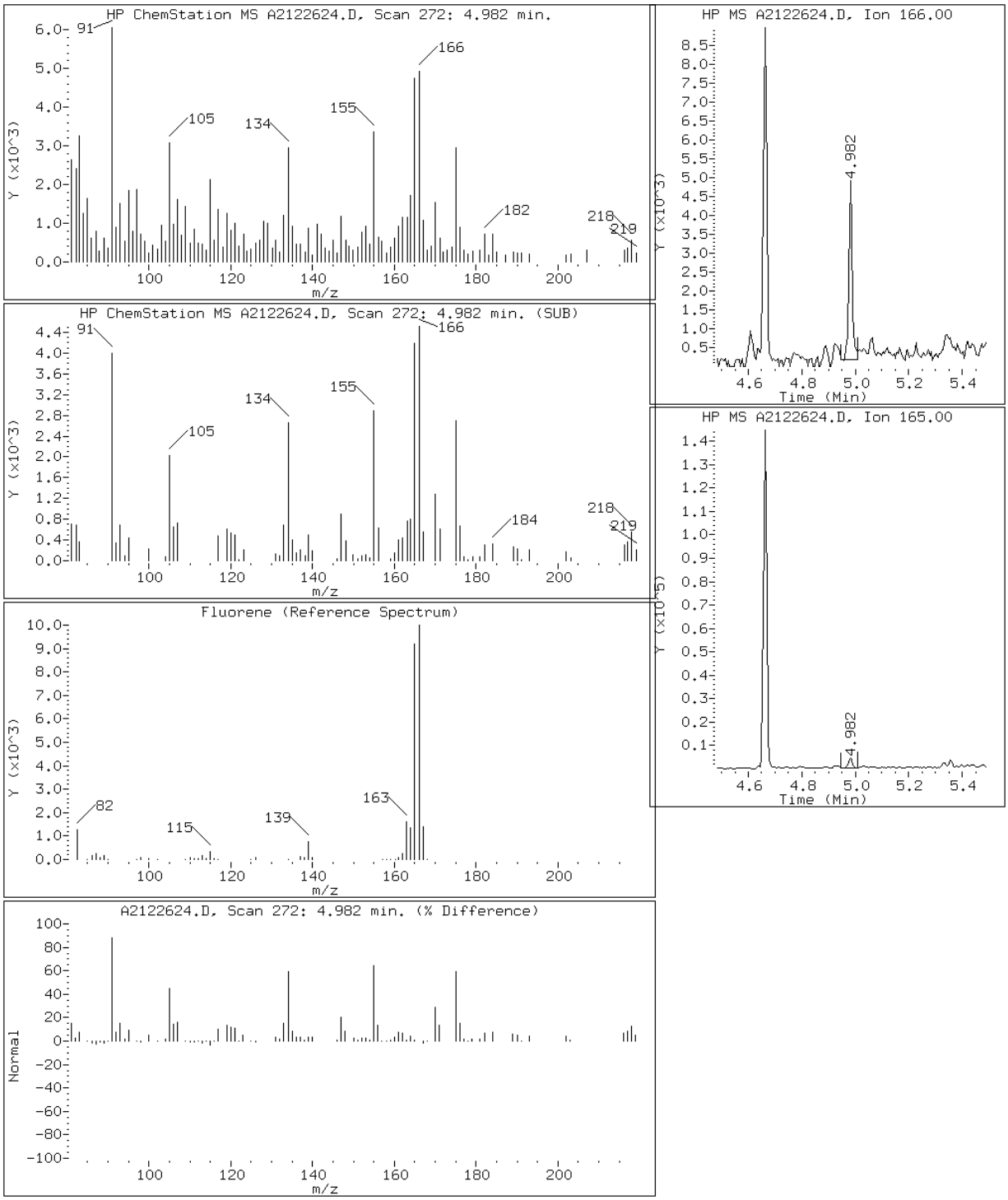
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

8 Fluorene



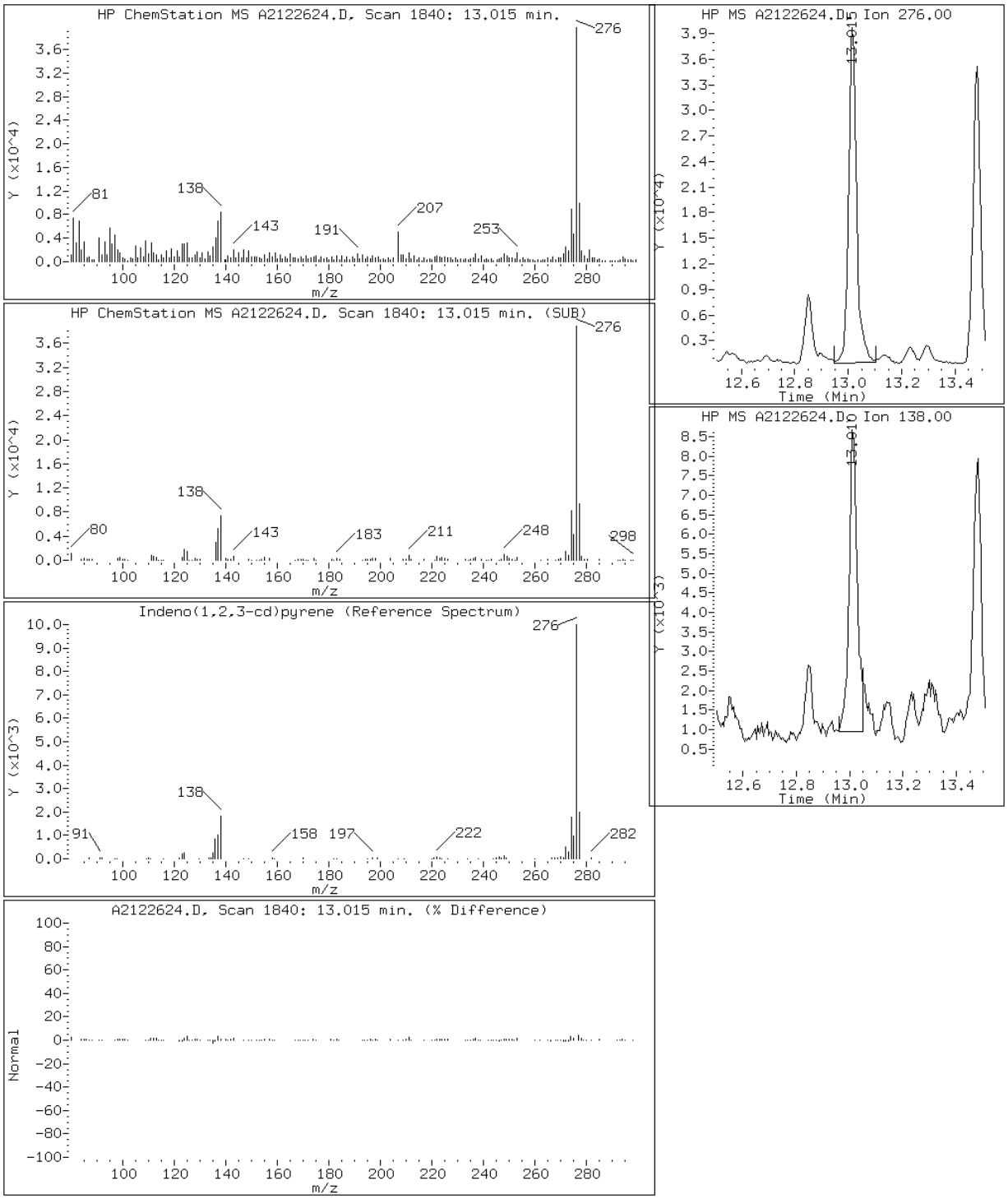
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

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



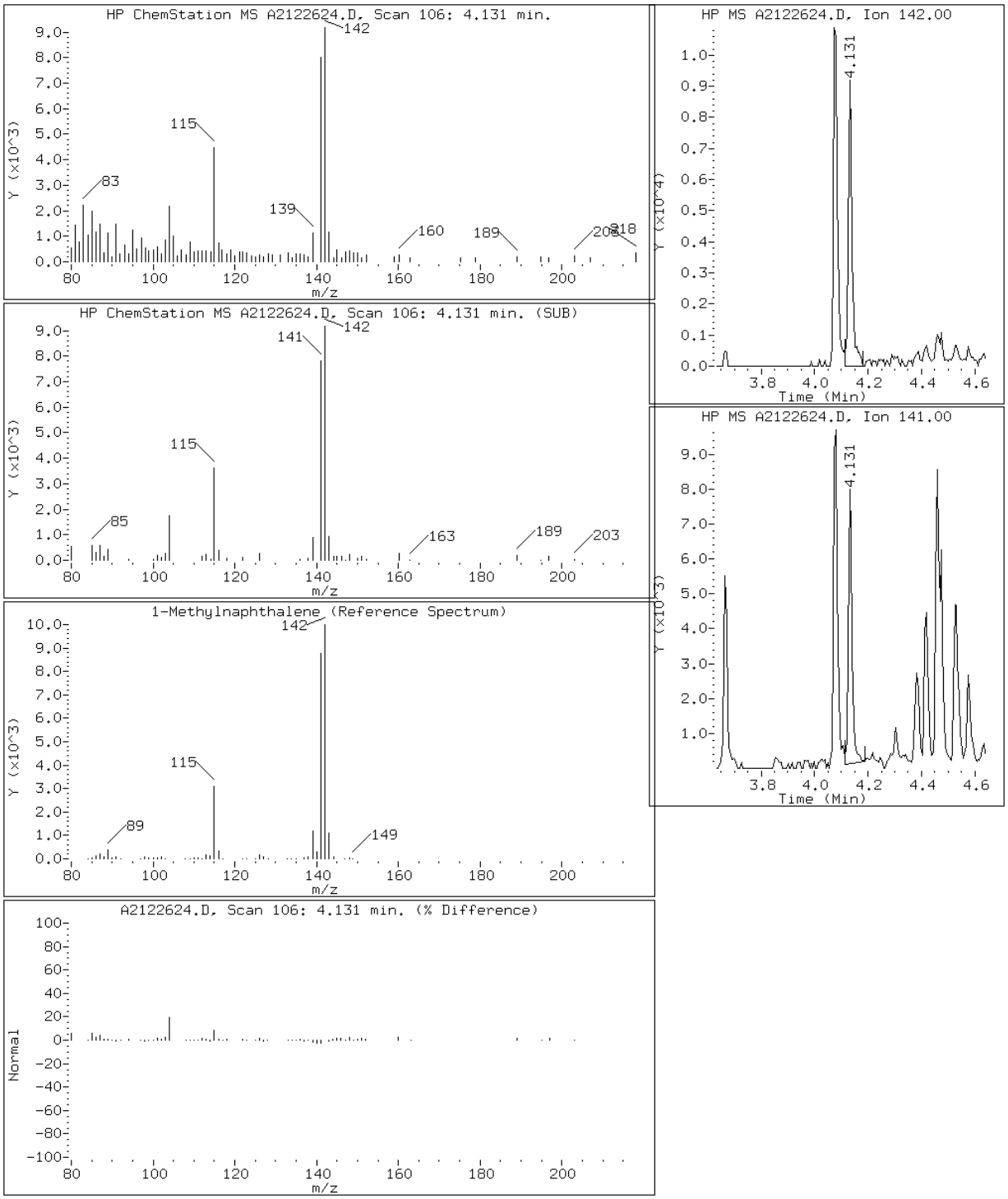
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



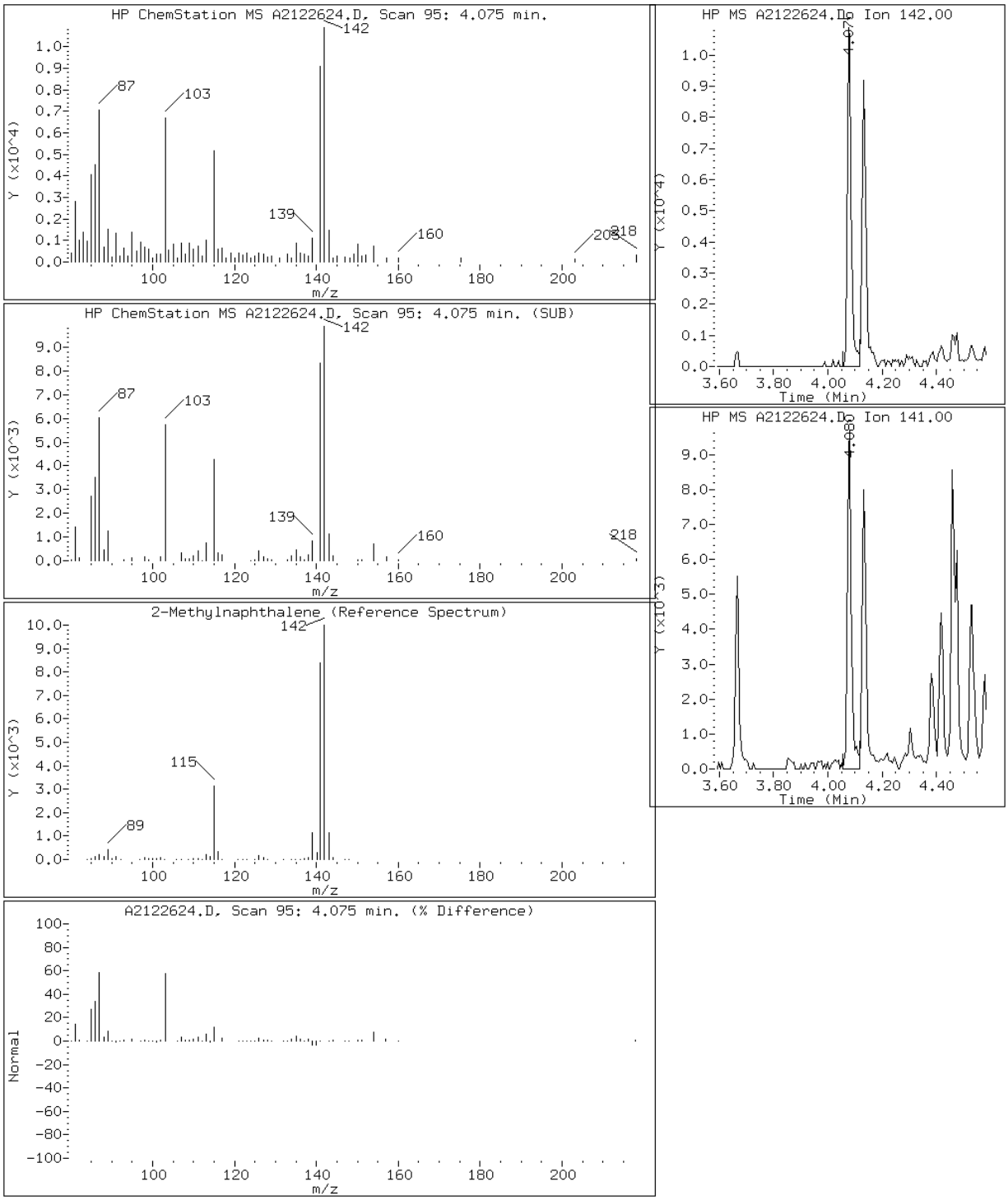
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

3 2-Methylnaphthalene



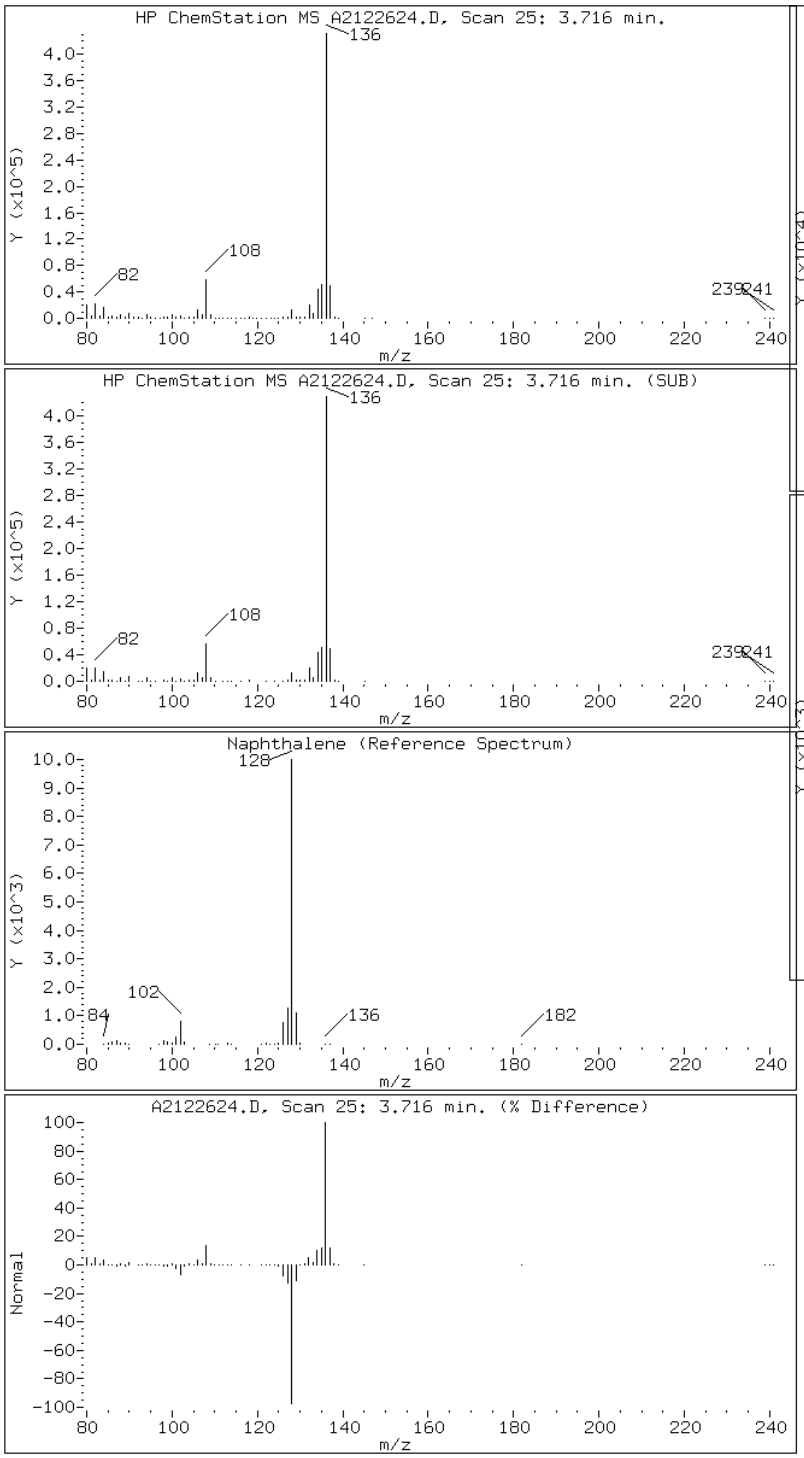
Data File: A2122624.D

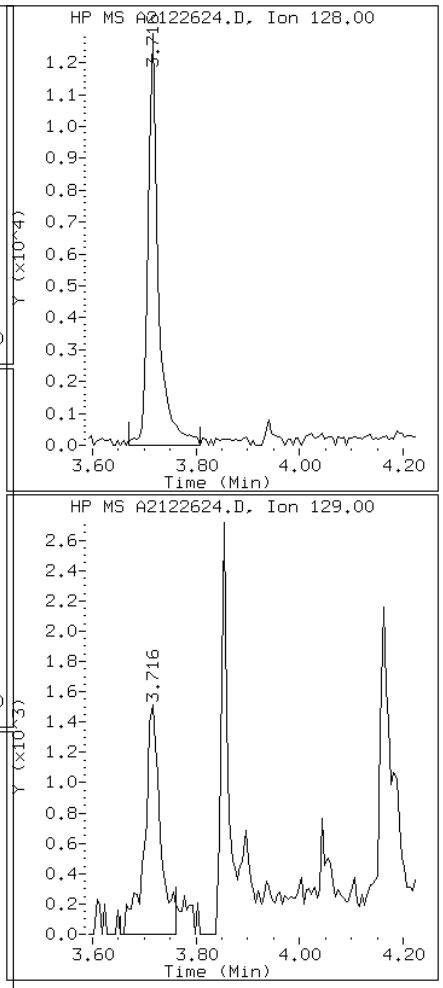
Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

2 Naphthalene





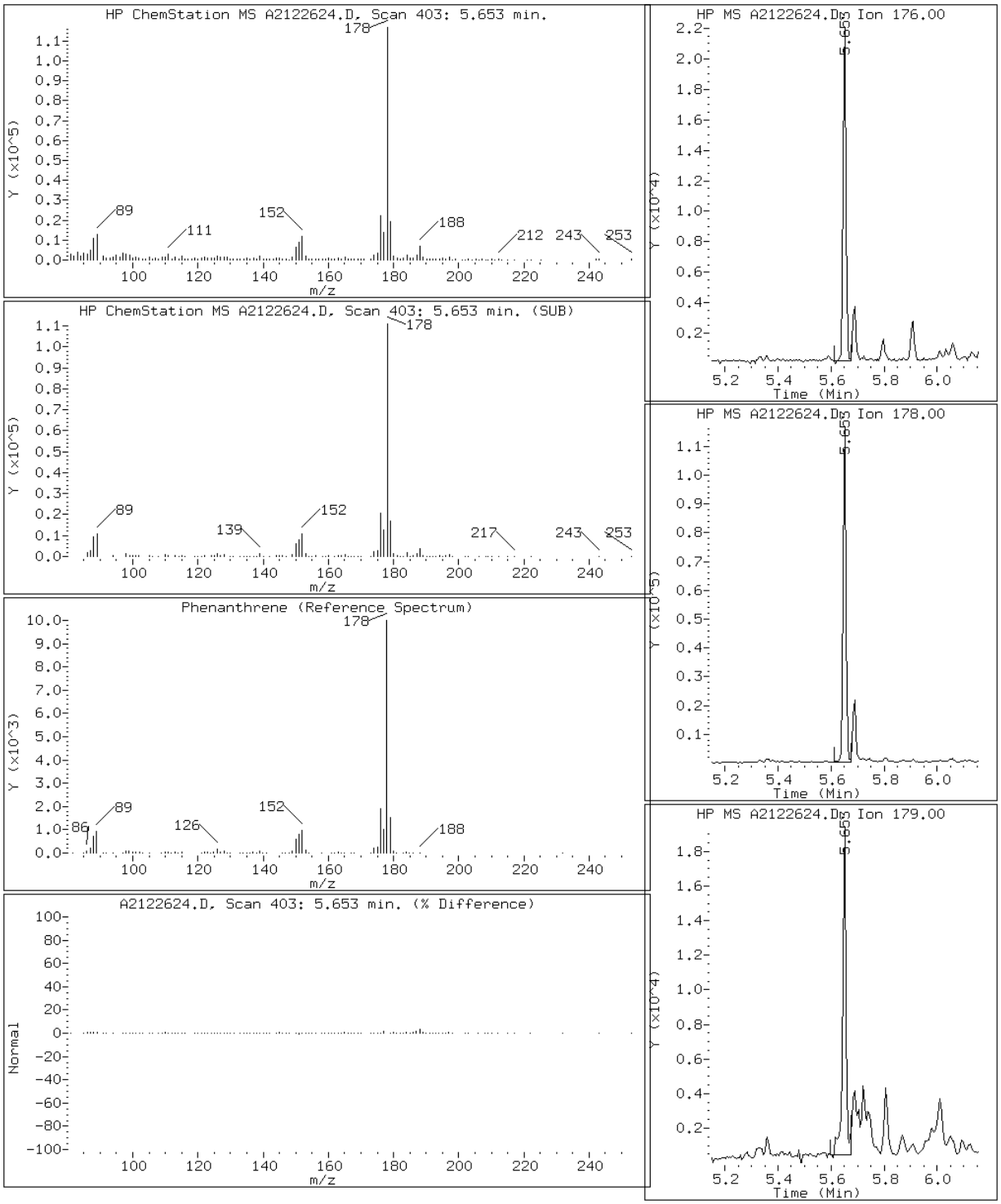
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

10 Phenanthrene



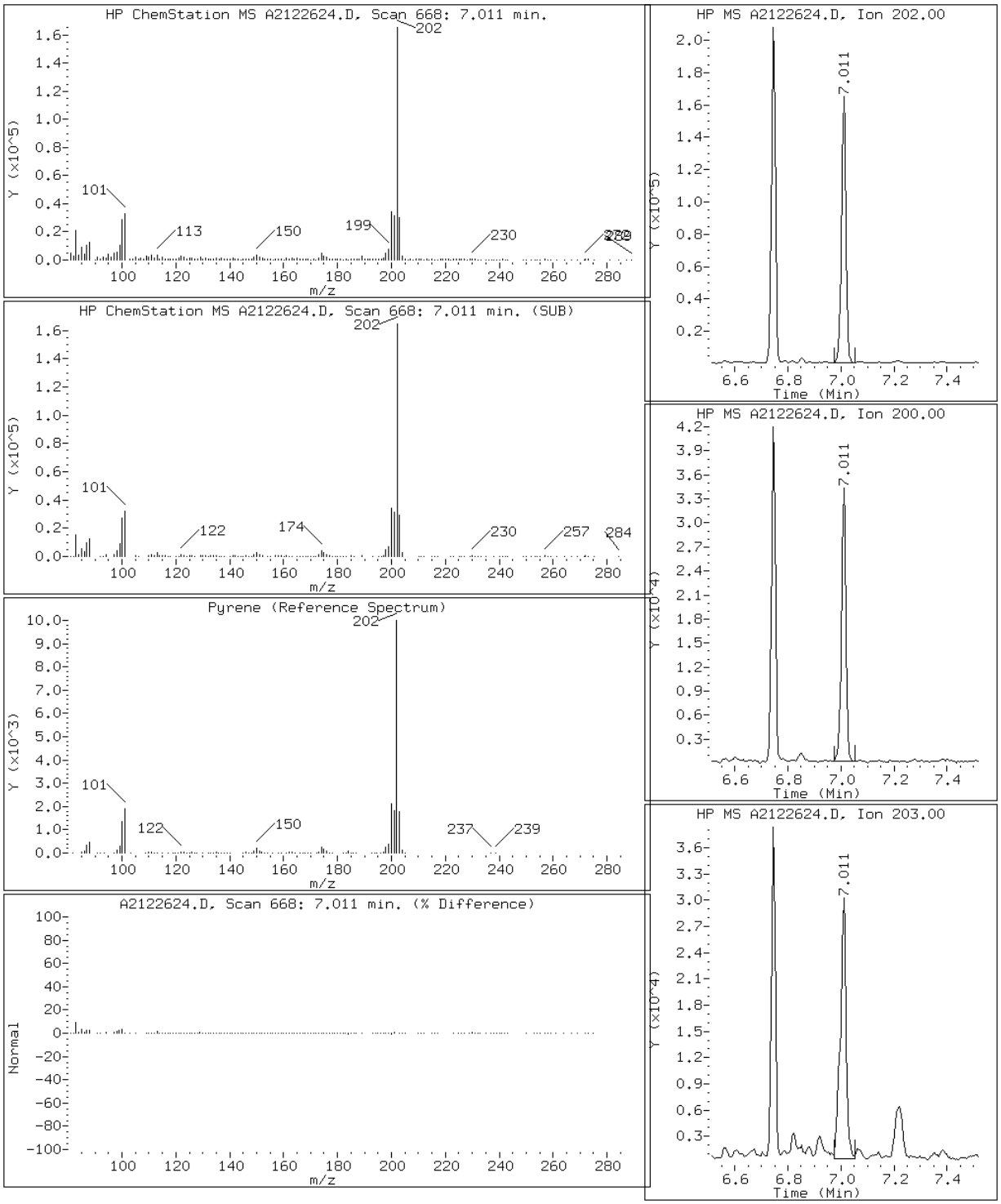
Data File: A2122624.D

Date: 26-DEC-2012 20:07

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-C~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511T-CS | Lab Sample ID: 680-85785-53

Matrix: Solid | Lab File ID: A2122715.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:24

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.17(g) | Date Analyzed: 12/27/2012 12:02

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

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

% Moisture: 37.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	13		11	0.92
208-96-8	Acenaphthylene	12		11	0.84
120-12-7	Anthracene	43		11	1.0
56-55-3	Benzo[a]anthracene	260	B	11	0.98
50-32-8	Benzo[a]pyrene	340	B	11	1.1
205-99-2	Benzo[b]fluoranthene	550	B	11	1.5
191-24-2	Benzo[g,h,i]perylene	110	B	11	1.7
207-08-9	Benzo[k]fluoranthene	190	B	11	1.0
218-01-9	Chrysene	280	B	11	1.2
53-70-3	Dibenz(a,h)anthracene	42	B	11	1.0
206-44-0	Fluoranthene	410	B	11	0.95
86-73-7	Fluorene	13		11	0.82
193-39-5	Indeno[1,2,3-cd]pyrene	140	B	11	1.7
90-12-0	1-Methylnaphthalene	24		11	0.84
91-57-6	2-Methylnaphthalene	30		11	0.82
91-20-3	Naphthalene	29		11	0.82
85-01-8	Phenanthrene	190		11	0.70
129-00-0	Pyrene	360	B	11	0.82

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\TSMA5973.i\1A121227.b\A2122715.D
Lab Smp Id: 680-85785-A-53-A Client Smp ID: CV0511T-CS
Inj Date : 27-DEC-2012 12:02
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-53-A~98123~1~8270D/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: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.170	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	3.696	3.705	(1.000)	1431721	40.0000		
2 Naphthalene	128	3.711	3.720	(1.004)	21929	0.54380	18	
3 2-Methylnaphthalene	142	4.075	4.079	(1.103)	14447	0.56689	19	
4 1-Methylnaphthalene	142	4.126	4.135	(1.116)	11839	0.44890	15	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	761794	40.0000		
6 Acenaphthylene	152	4.577	4.581	(0.982)	9107	0.22307	7.4	
7 Acenaphthene	153	4.674	4.678	(1.003)	6051	0.24058	8.0(Q)	
8 Fluorene	166	4.977	4.980	(1.068)	7156	0.24964	8.3	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1188431	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	27405	3.54577	120	
11 Anthracene	178	5.684	5.687	(1.009)	33084	0.81473	27	
$ 12 o-Terphenyl	230	5.904	5.903	(1.048)	76997	3.06567	100	
13 Fluoranthene	202	6.744	6.743	(1.197)	365377	7.74432	260	
* 14 Chrysene-d12	240	8.742	8.736	(1.000)	1456577	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	7.011	7.004	(0.802)	336609	6.78052	220	
16 Benzo(a)anthracene	226	8.717	8.700	(0.997)	64231	4.85249	160	
17 Chrysene	228	8.773	8.772	(1.004)	235955	5.22682	170	
* 18 Perylene-d12	264	11.238	11.241	(1.000)	986686	40.0000		
19 Benzo(b)fluoranthene	252	10.556	10.544	(0.939)	314979	10.3516	340	
20 Benzo(k)fluoranthene	252	10.602	10.596	(0.943)	113090	3.63907	120	
21 Benzo(a)pyrene	252	11.120	11.113	(0.990)	175140	6.37027	210	
22 Indeno(1,2,3-cd)pyrene	276	13.010	12.993	(1.158)	72126	2.60311	86	
23 Dibenzo(a,h)anthracene	278	13.046	13.039	(1.161)	22572	0.80411	27	
24 Benzo(g,h,i)perylene	276	13.461	13.444	(1.198)	56059	2.04225	68	

QC Flag Legend

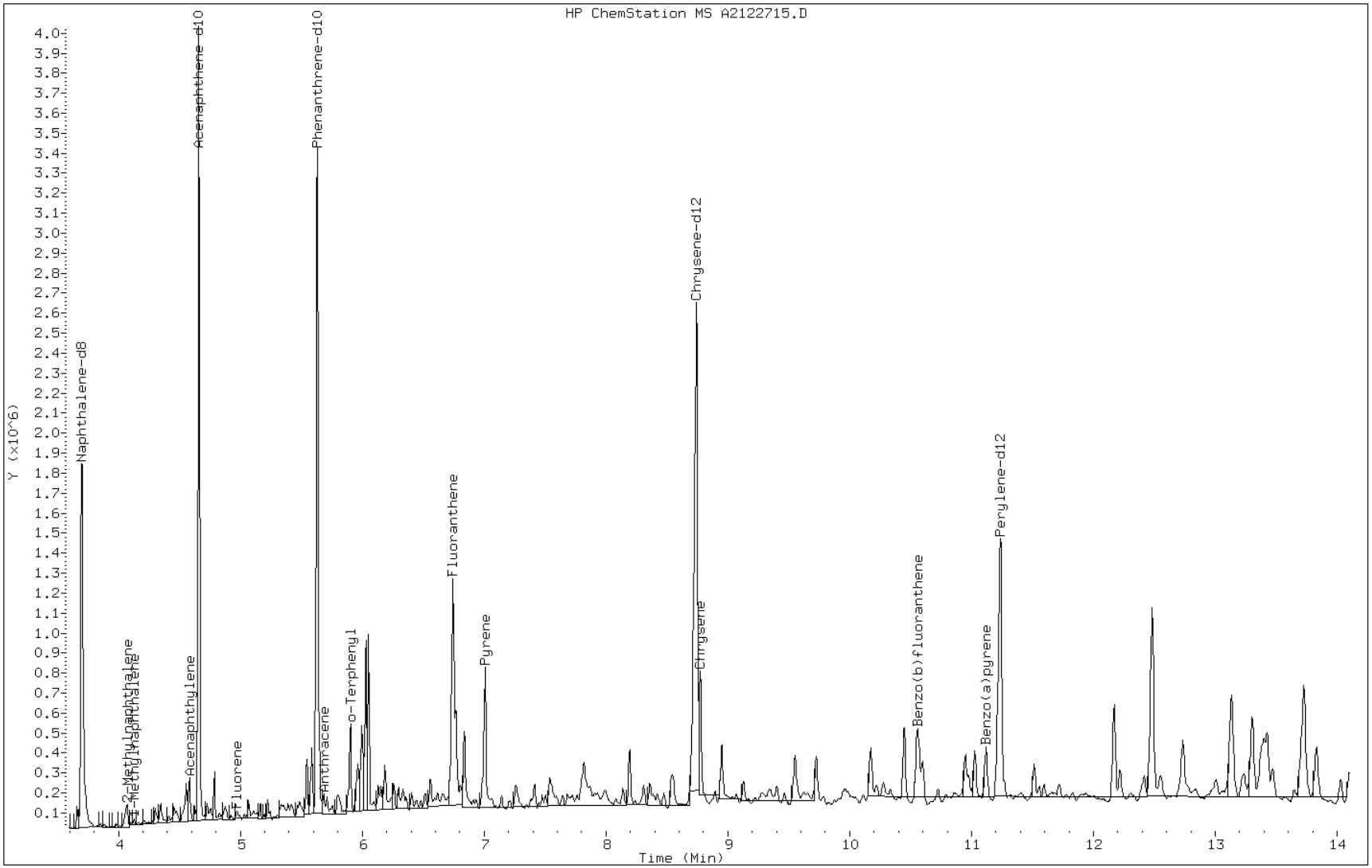
Q - Qualifier signal failed the ratio test.

Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW



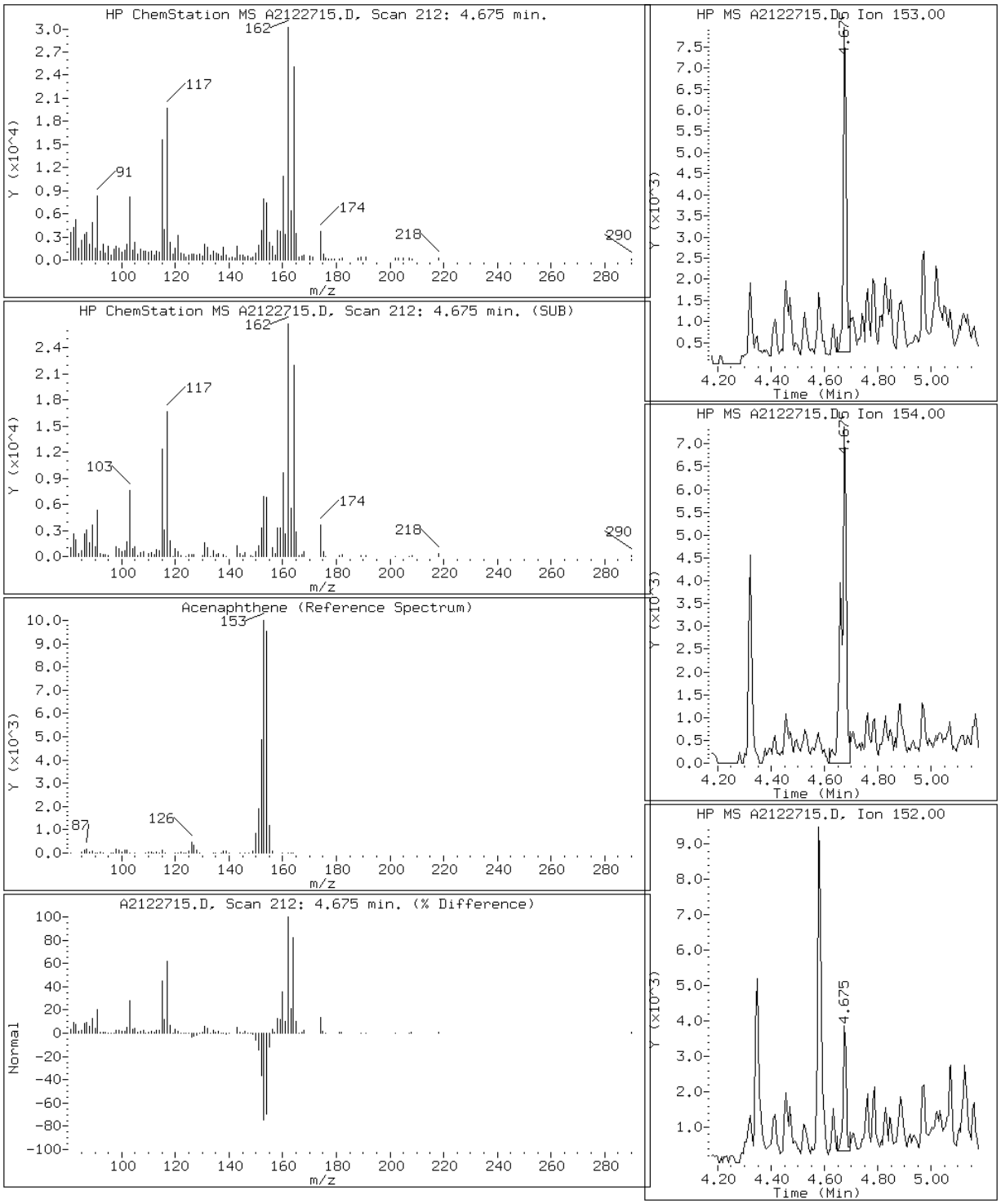
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



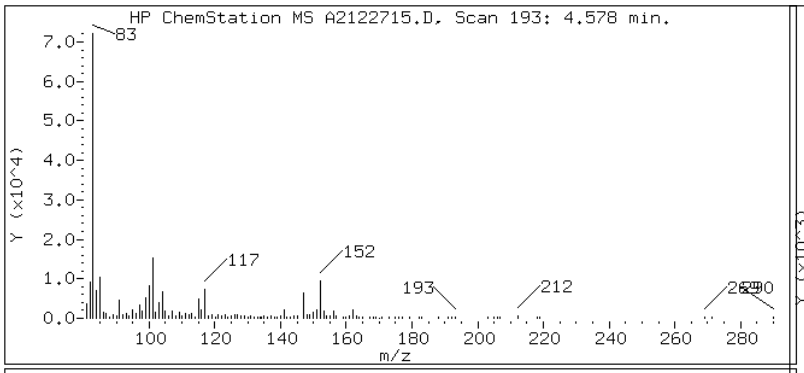
Data File: A2122715.D

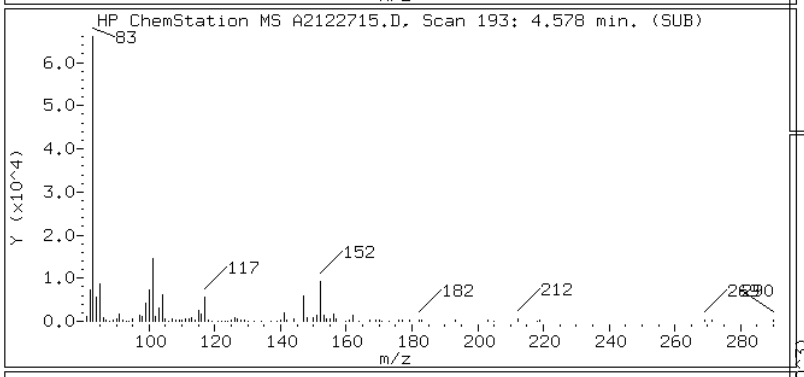
Date: 27-DEC-2012 12:02

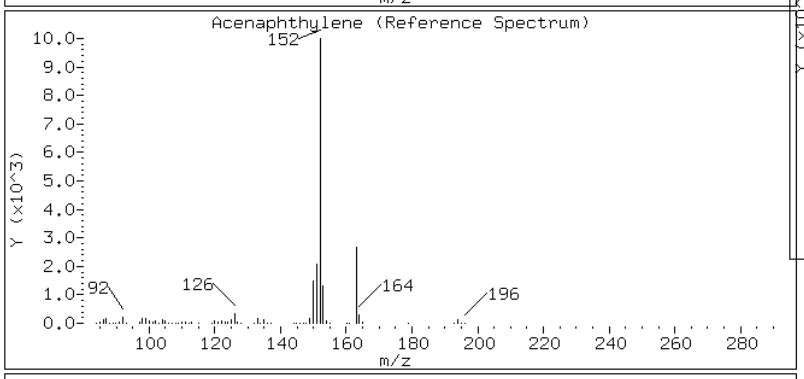
Client ID: CV0511T-CS Instrument: TSMA5973.i

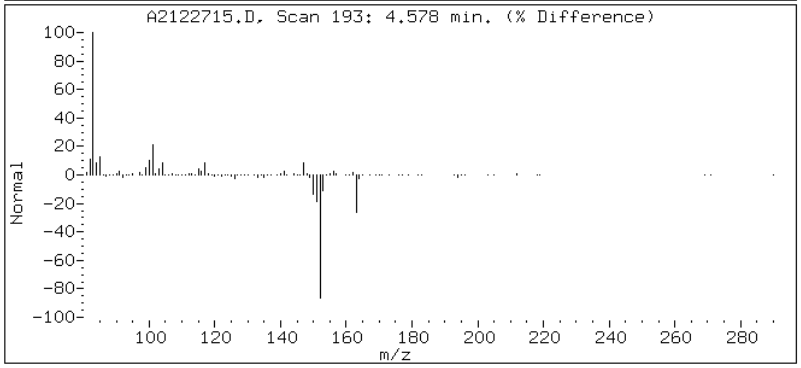
Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

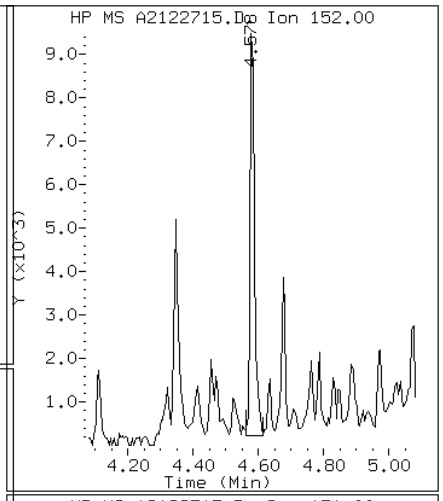
6 Acenaphthylene

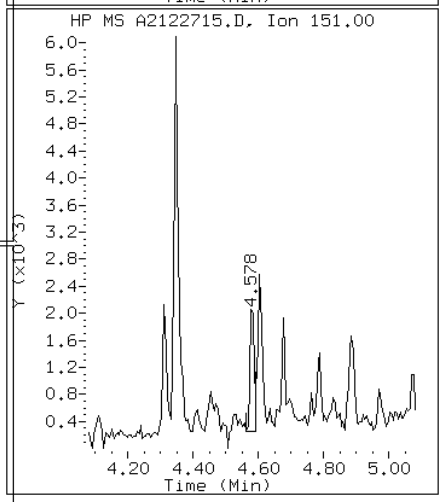












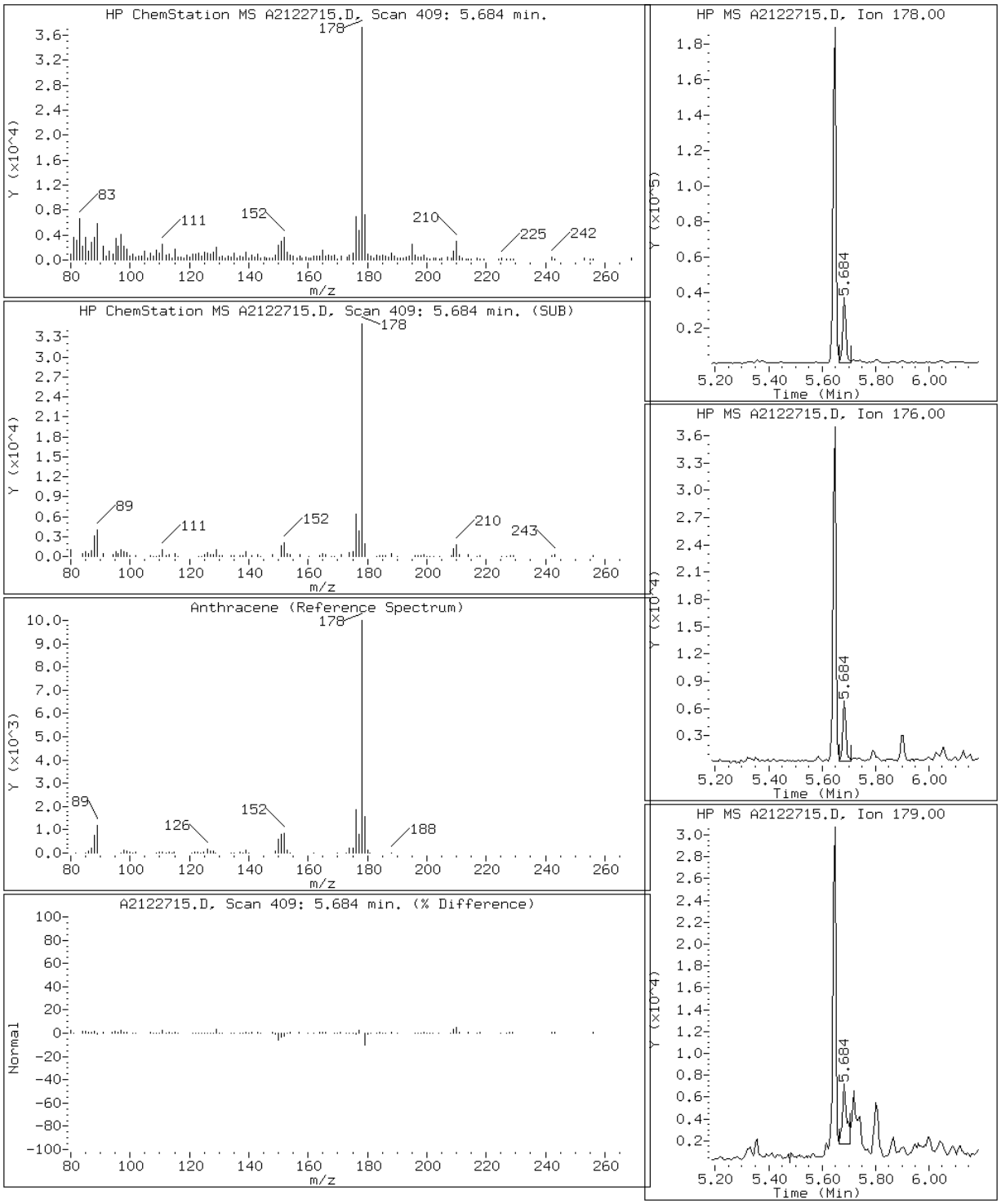
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

11 Anthracene



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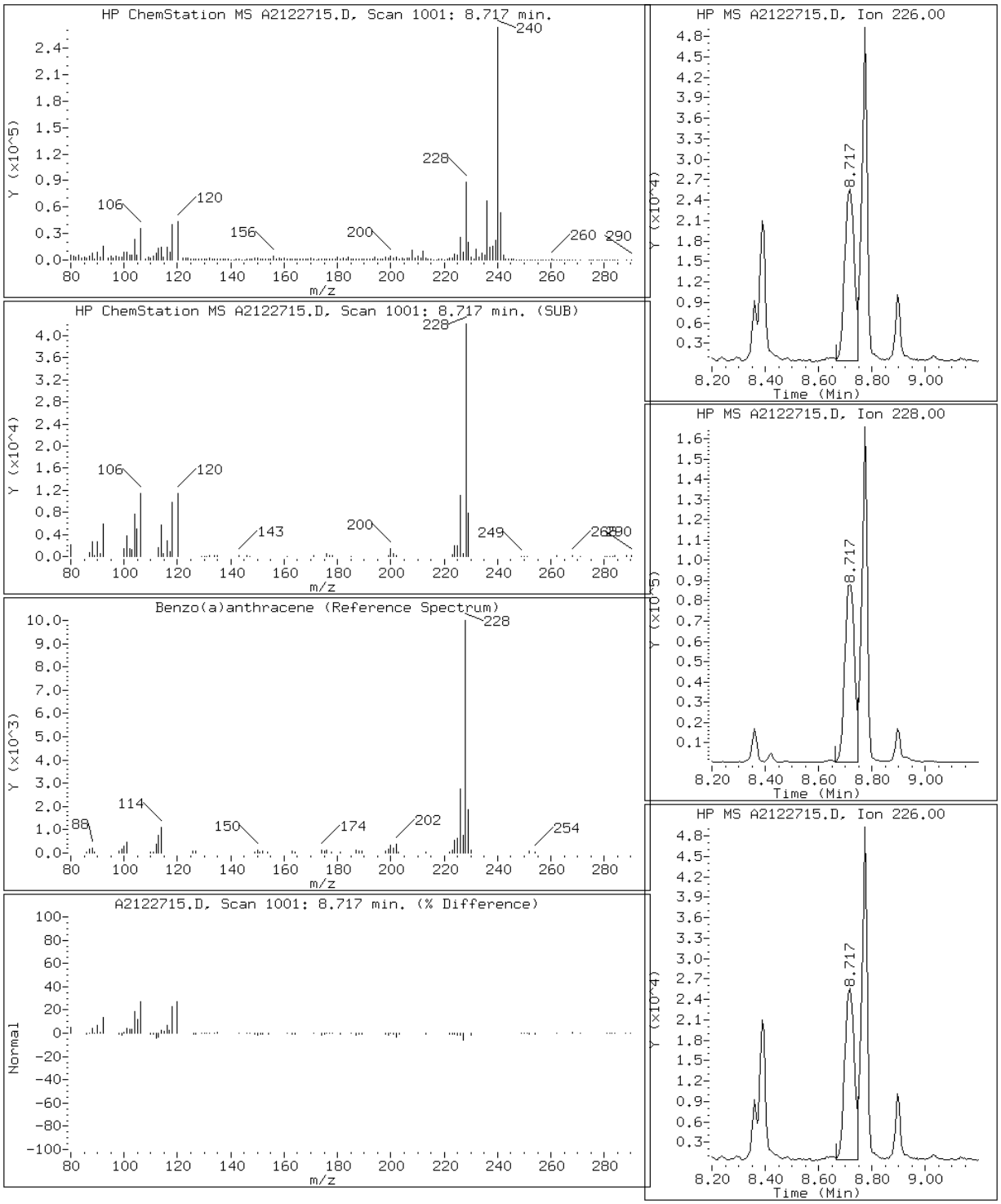
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



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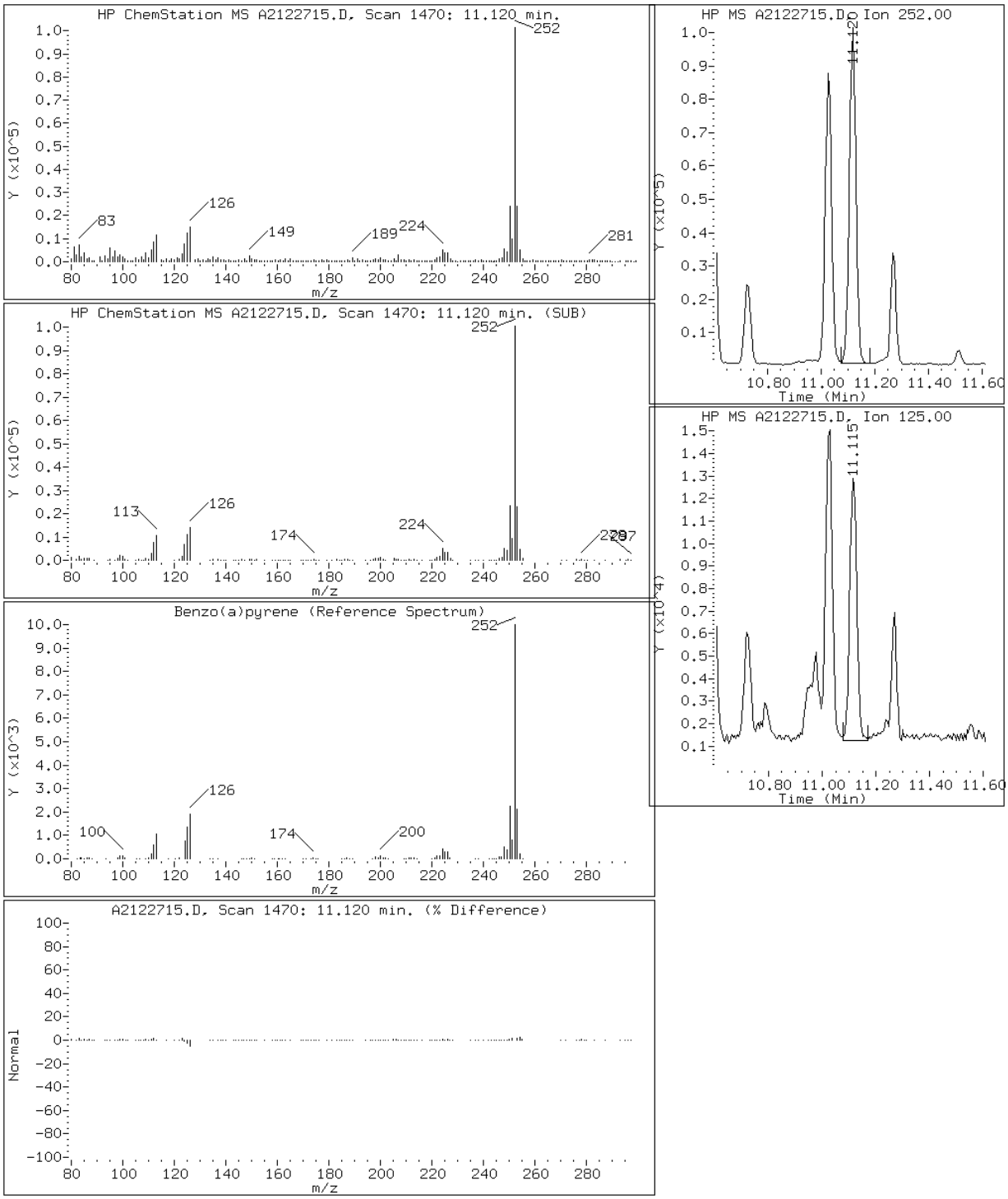
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



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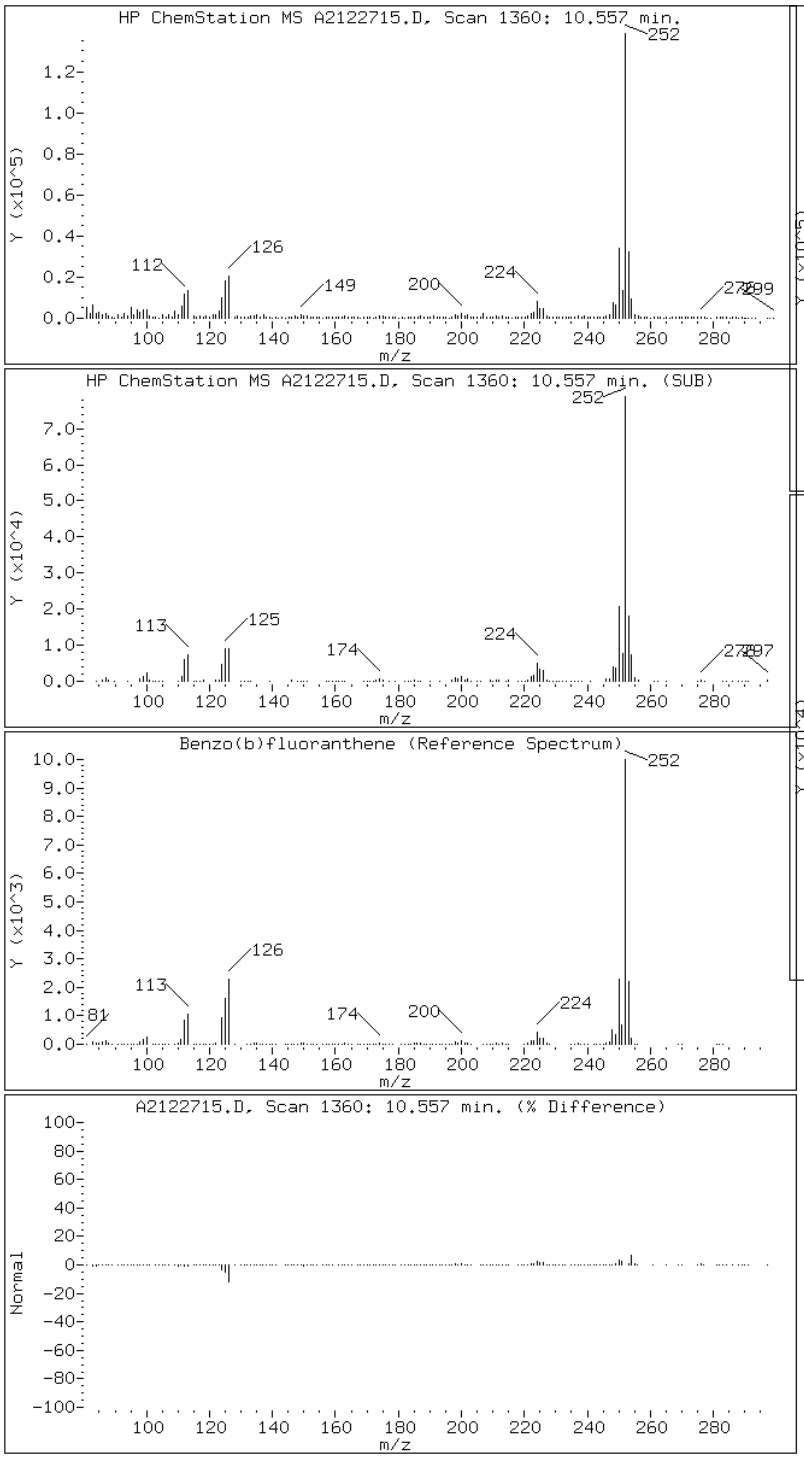
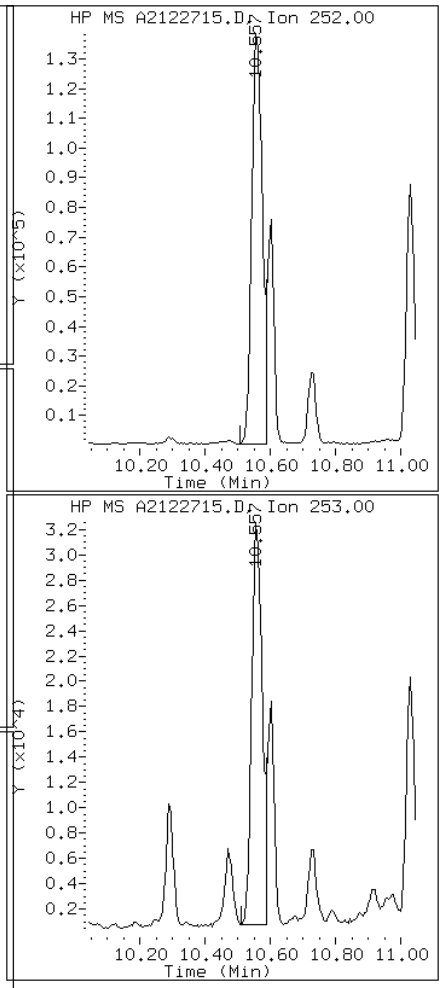
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





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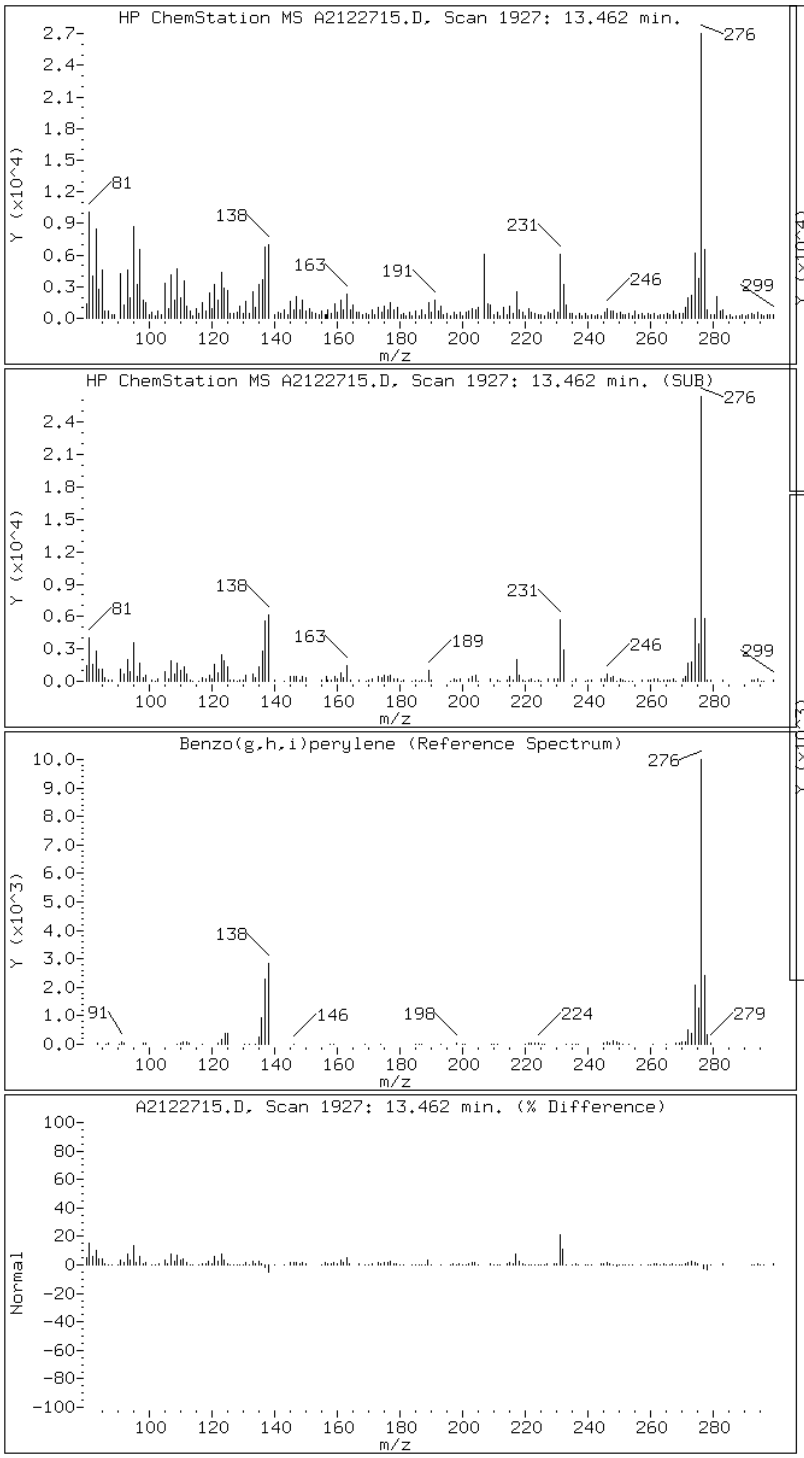
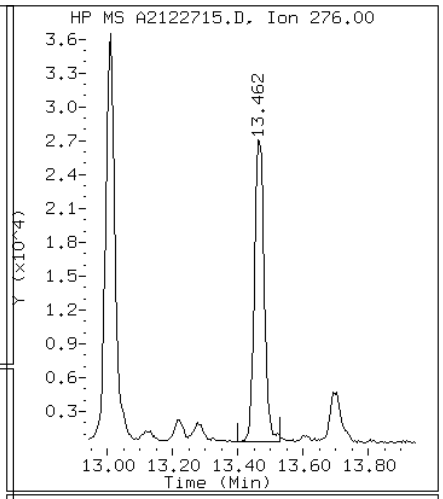
Date: 27-DEC-2012 12:02

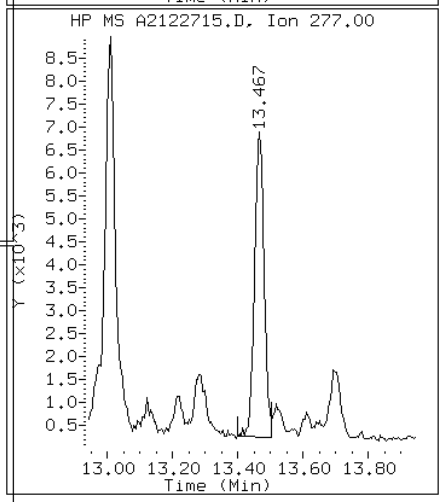
Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







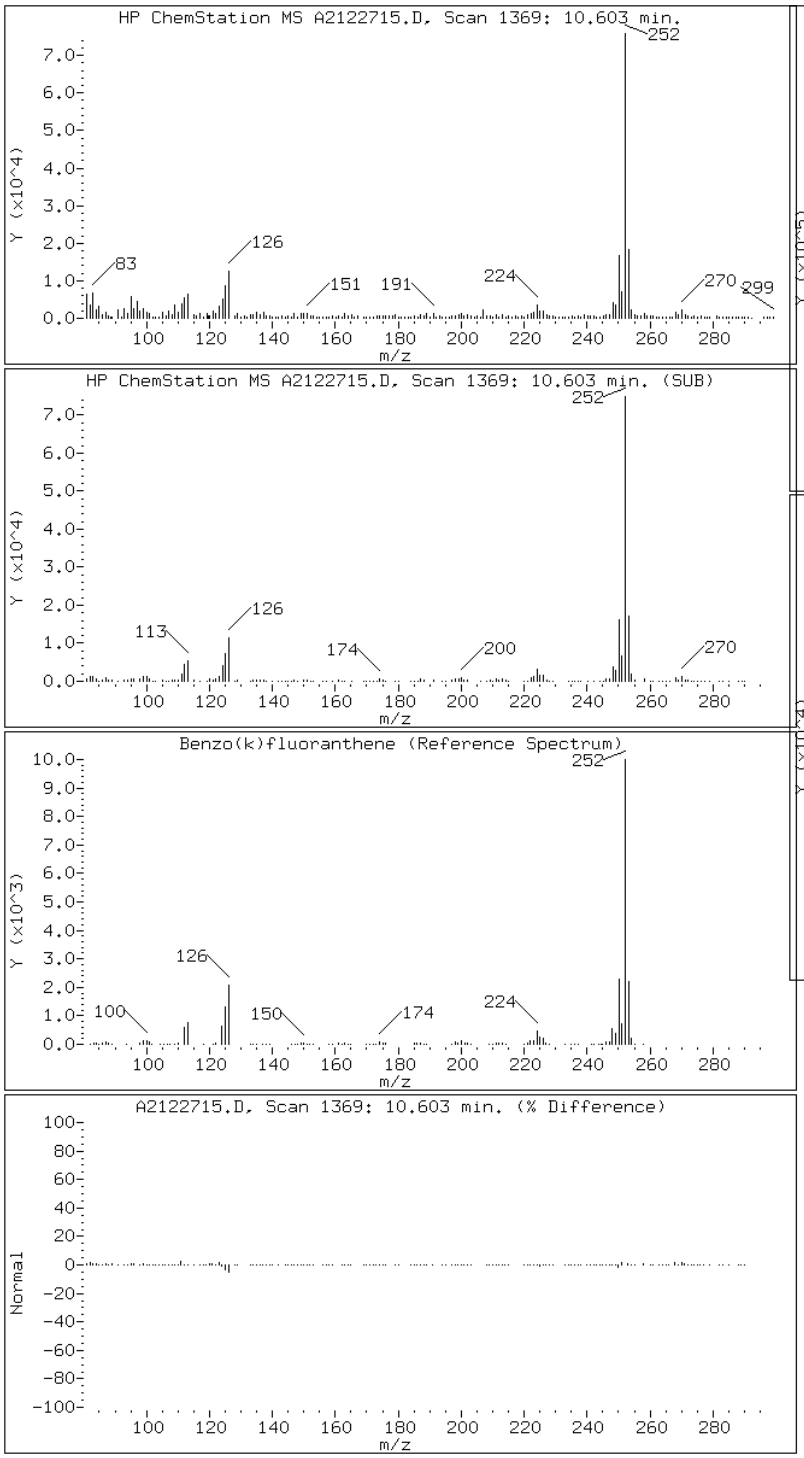
Data File: A2122715.D

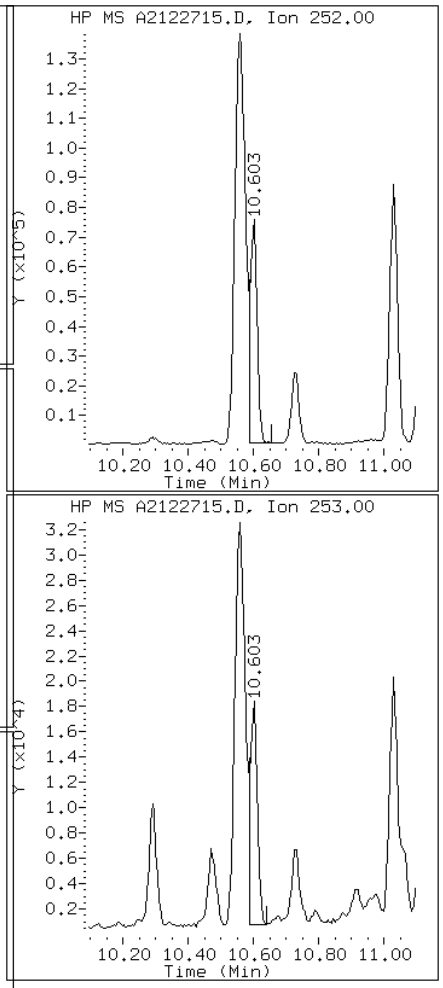
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene





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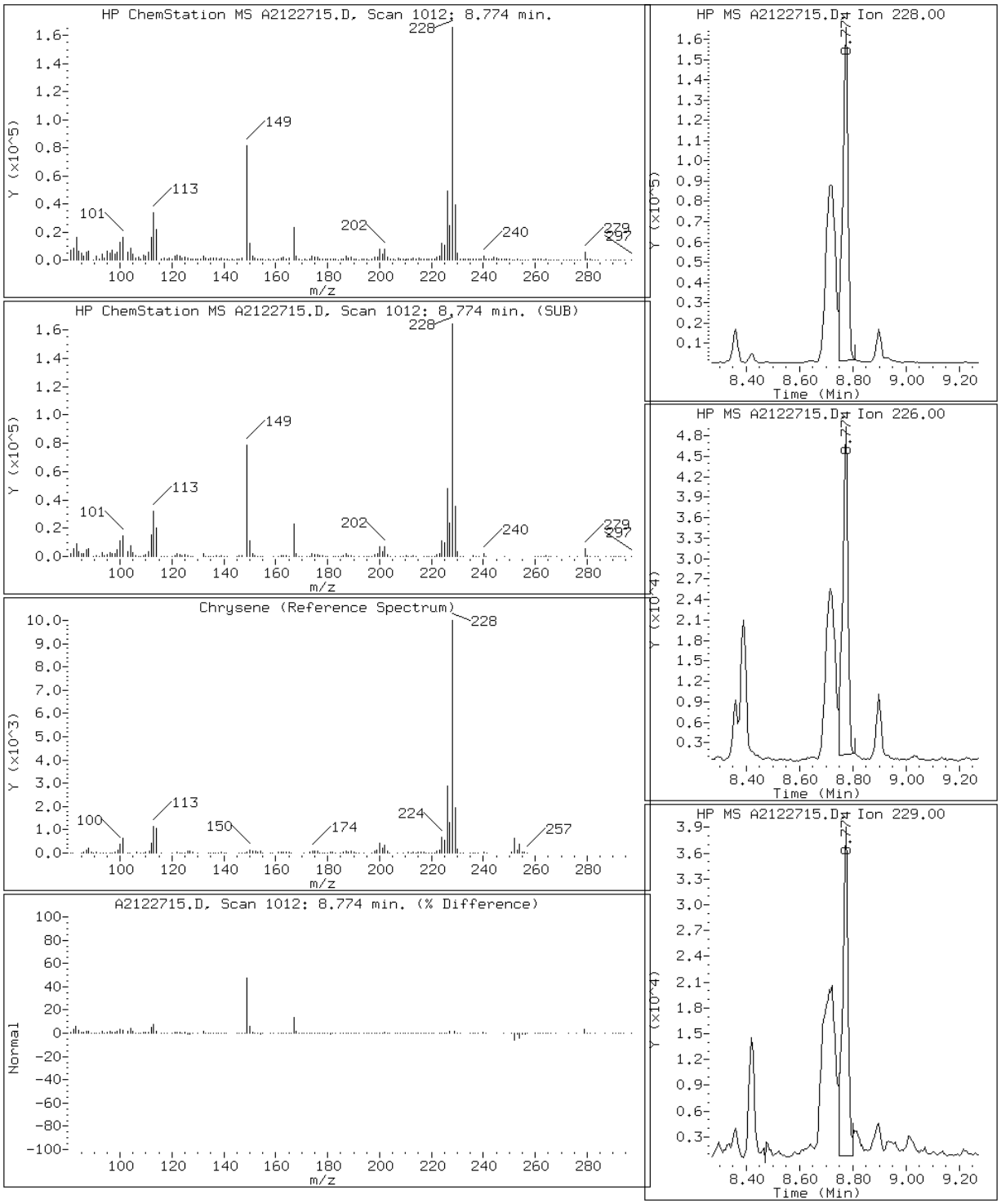
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

17 Chrysene



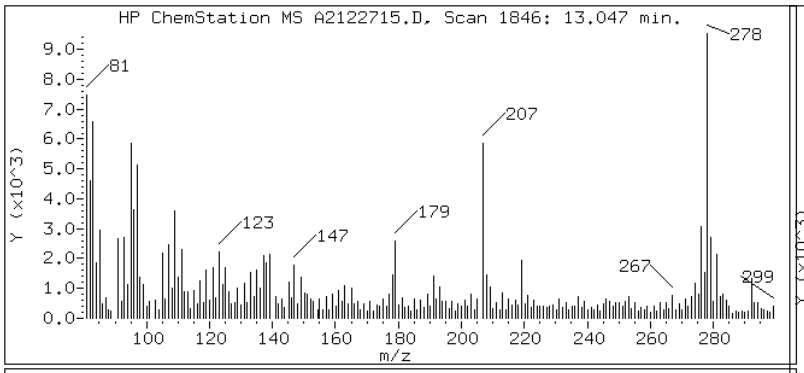
Data File: A2122715.D

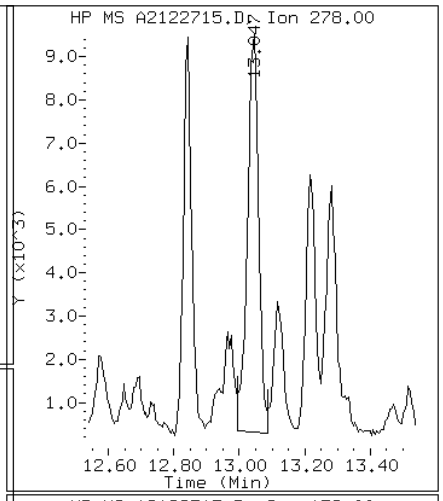
Date: 27-DEC-2012 12:02

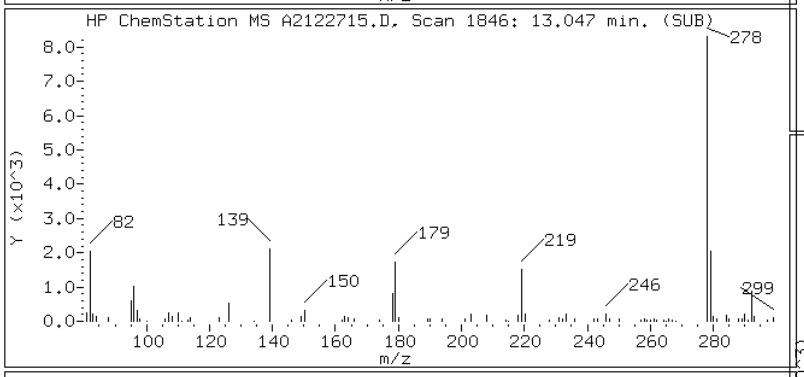
Client ID: CV0511T-CS Instrument: TSMA5973.i

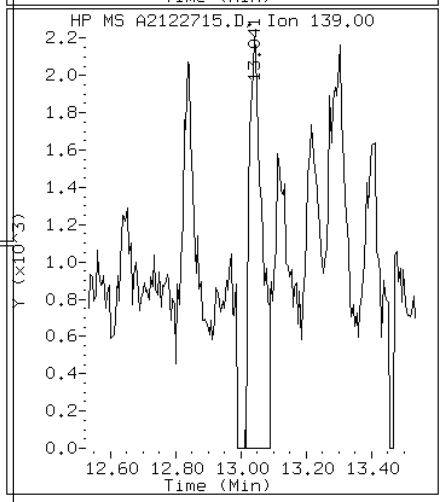
Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

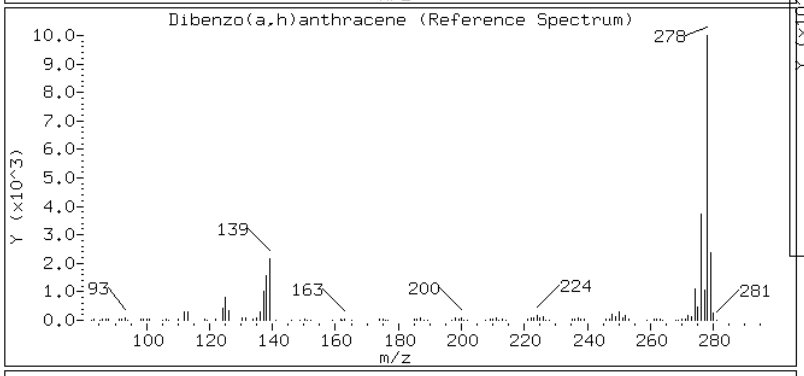
23 Dibenzo(a,h)anthracene

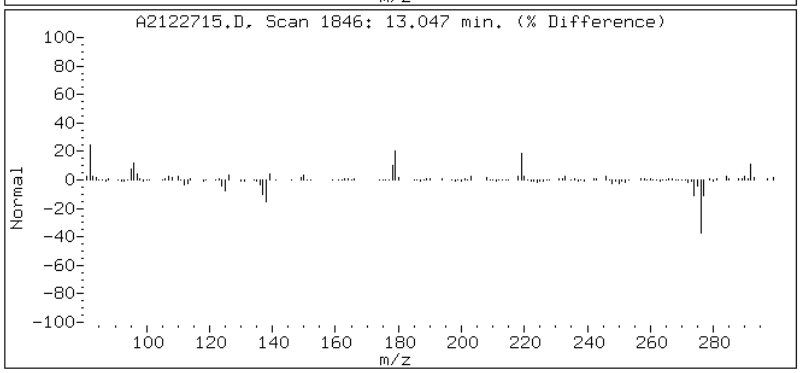












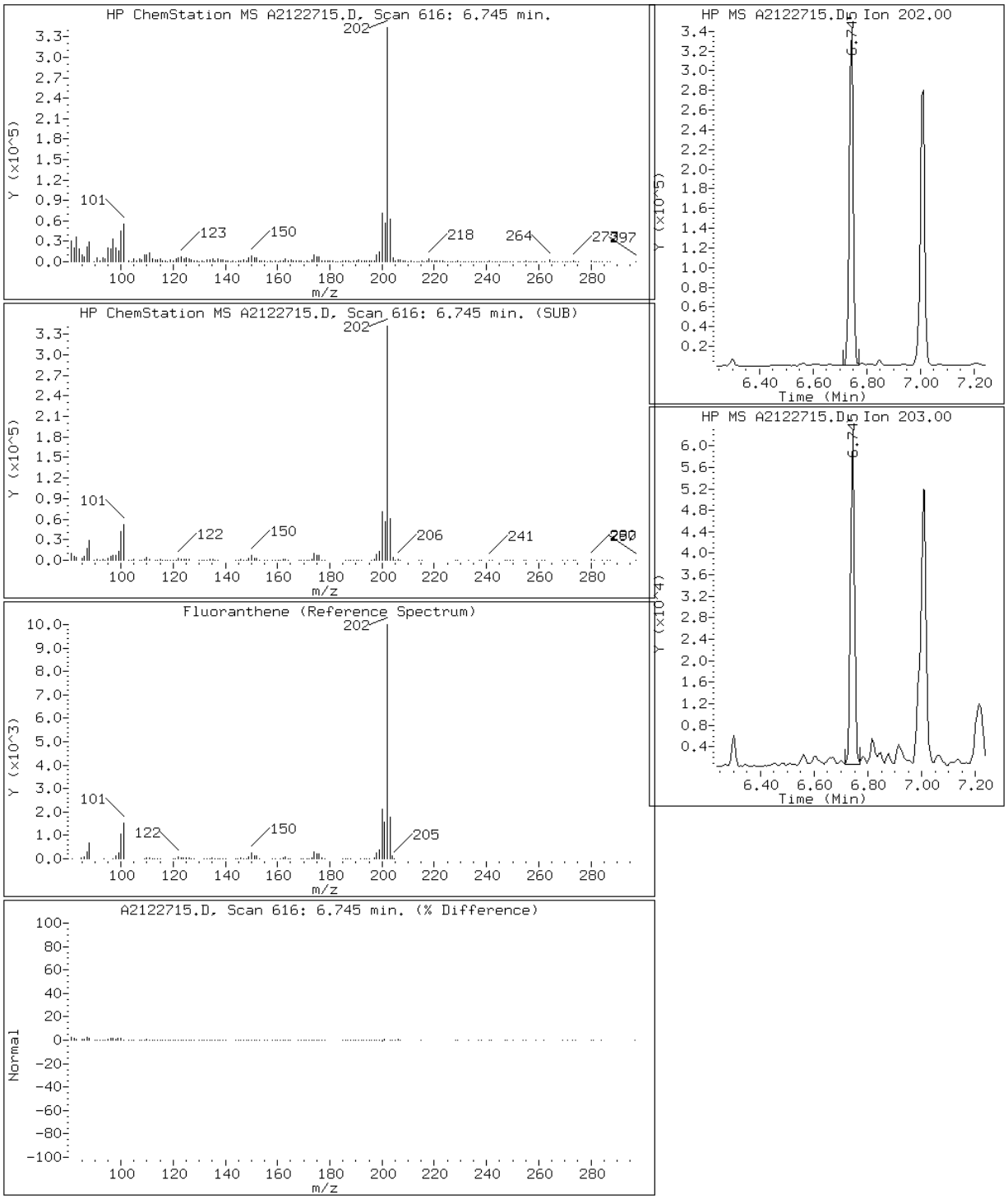
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

13 Fluoranthene



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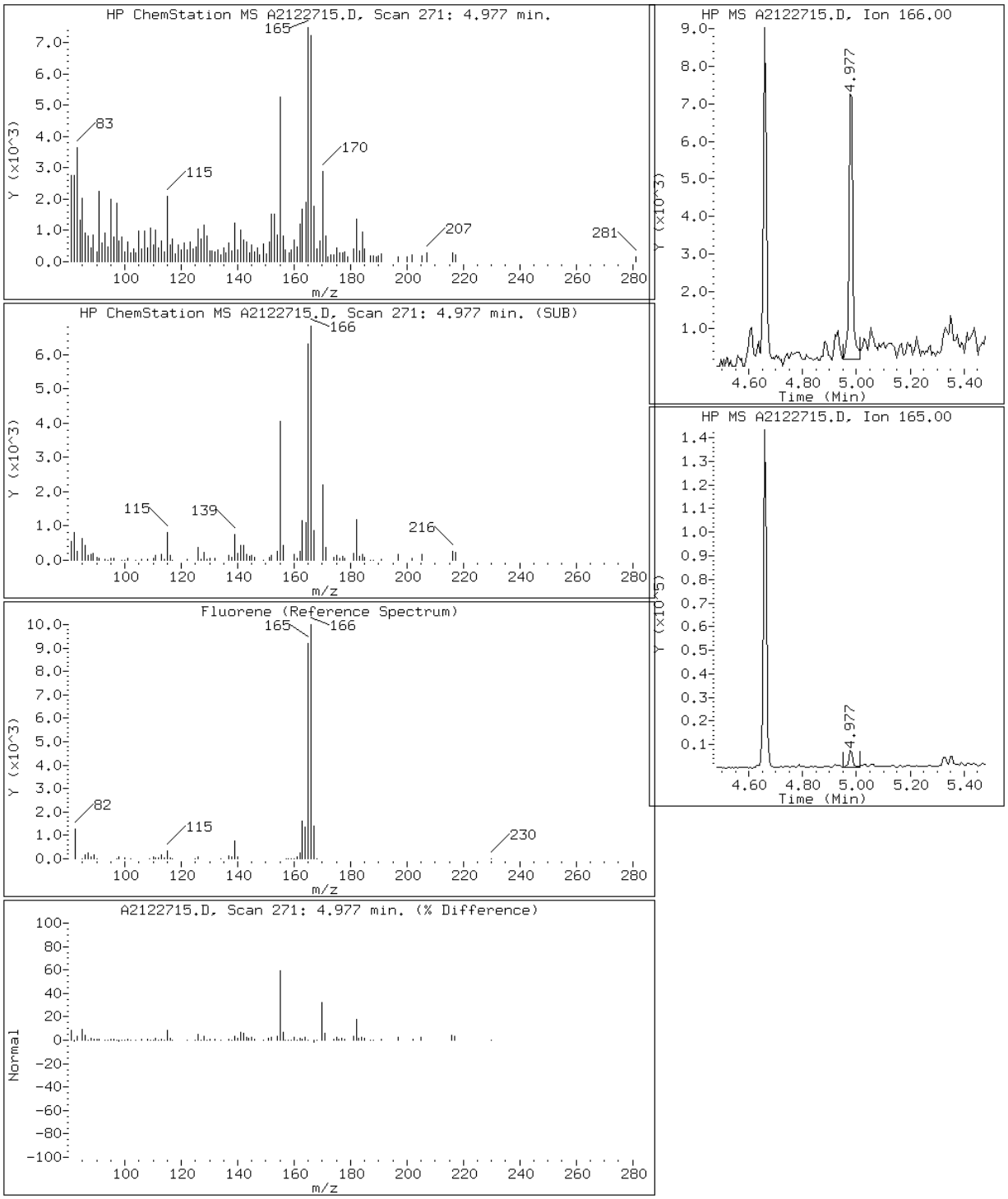
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

8 Fluorene



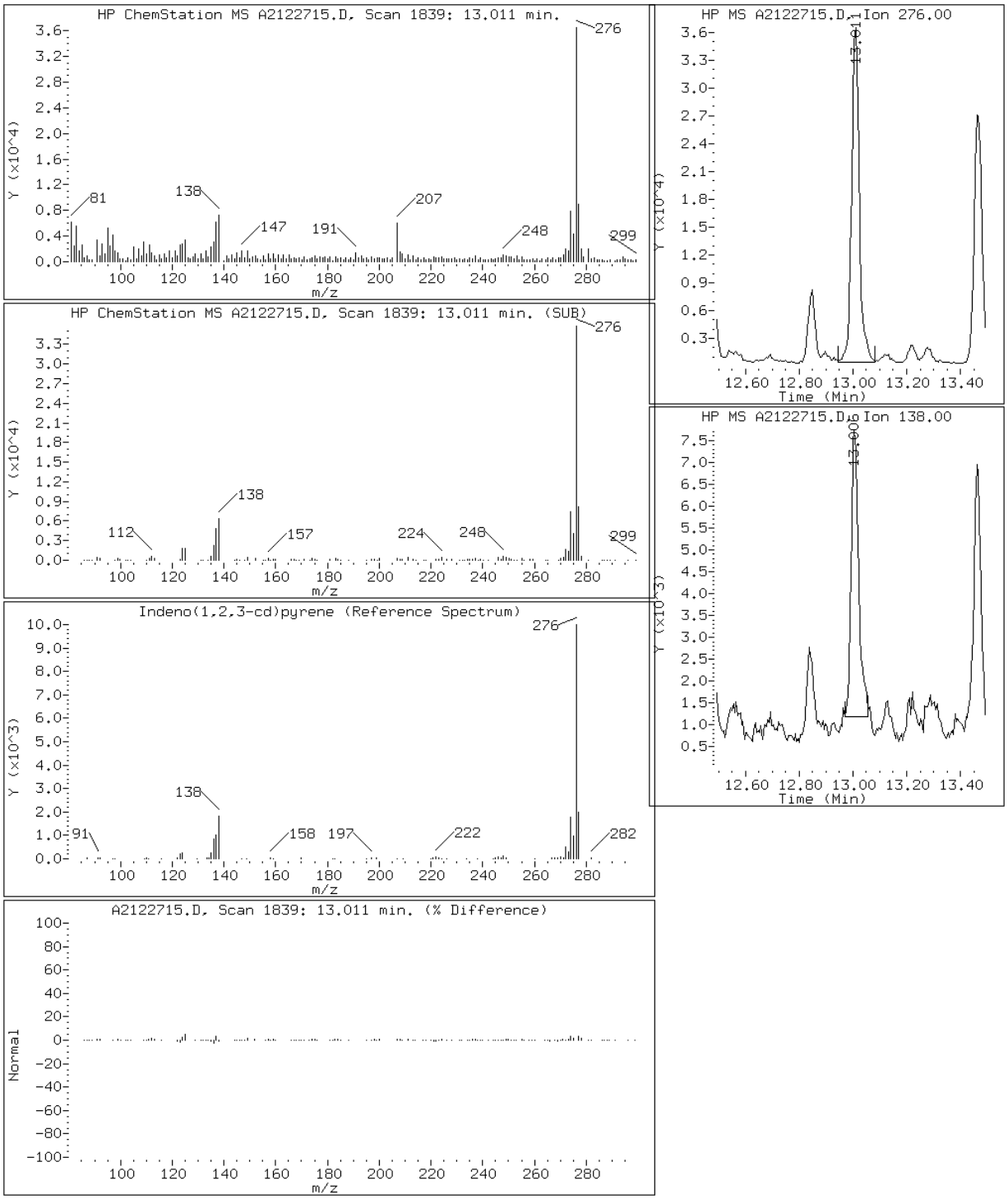
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

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



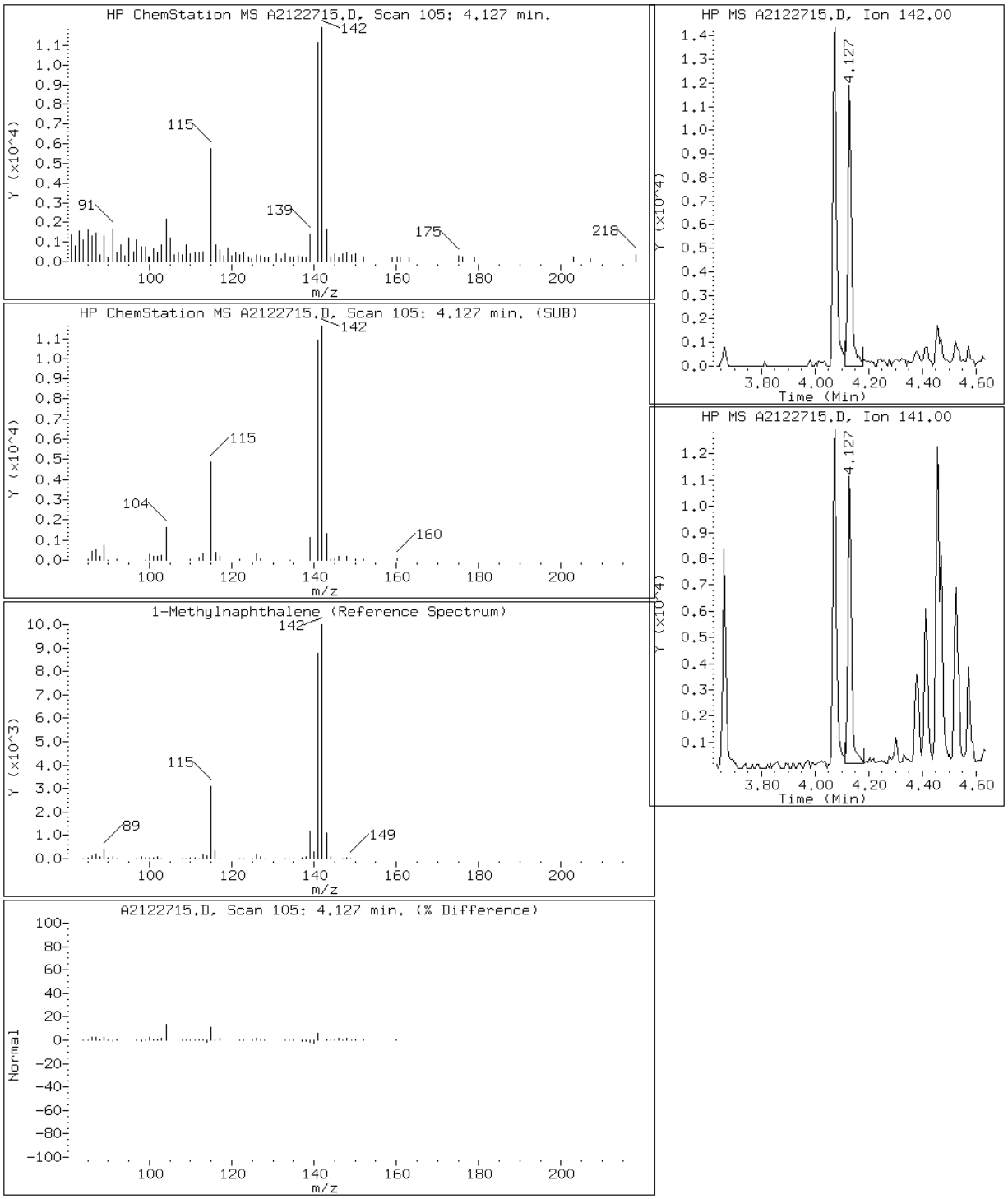
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene



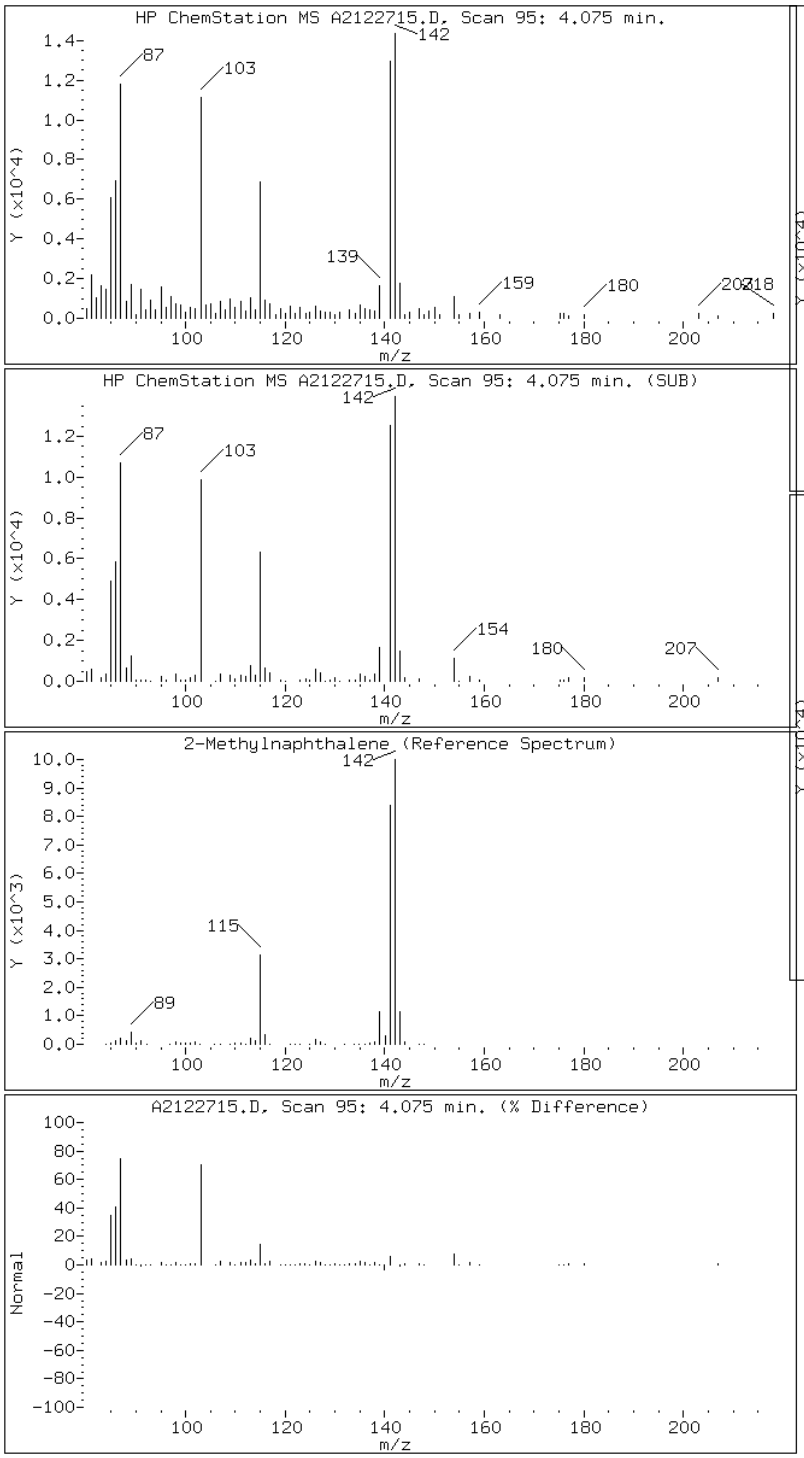
Data File: A2122715.D

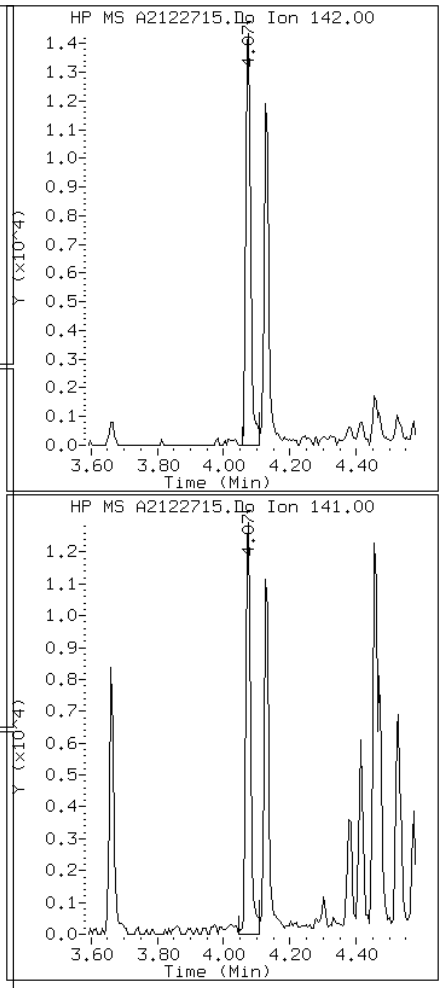
Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

3 2-Methylnaphthalene





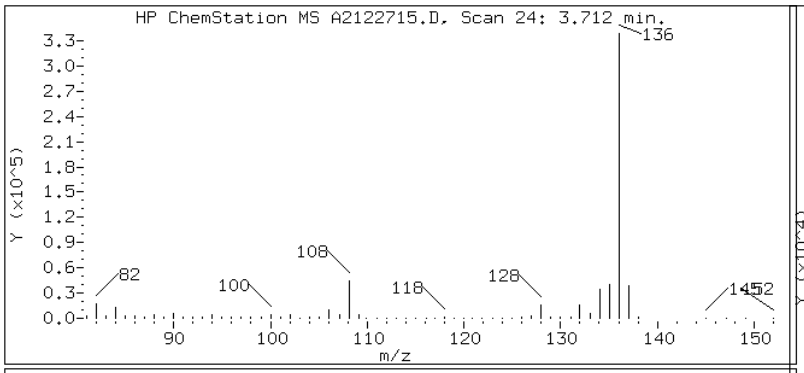
Data File: A2122715.D

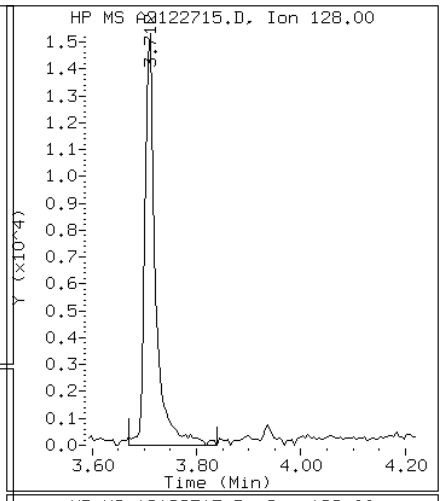
Date: 27-DEC-2012 12:02

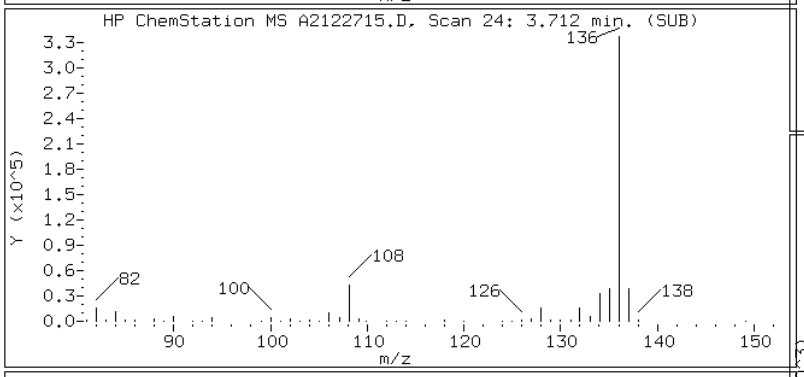
Client ID: CV0511T-CS Instrument: TSMA5973.i

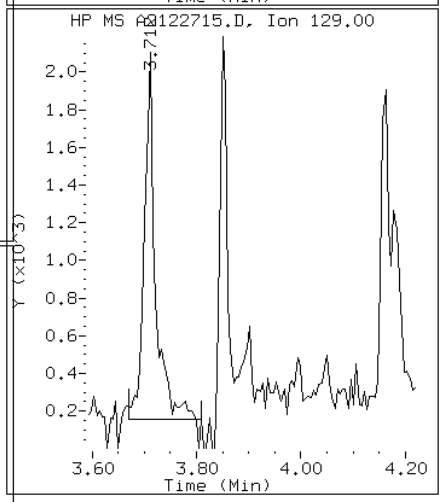
Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

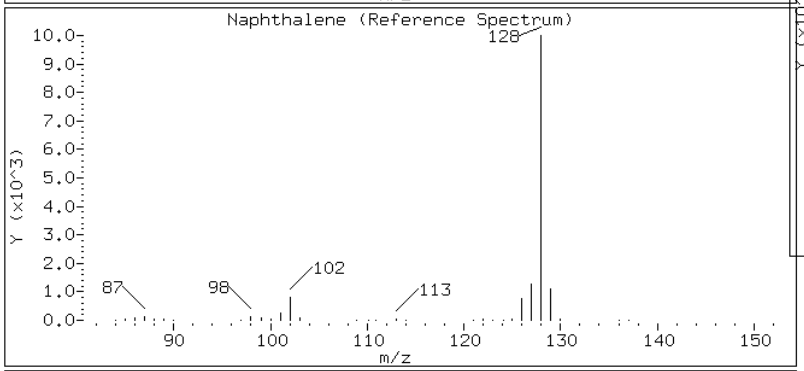
2 Naphthalene

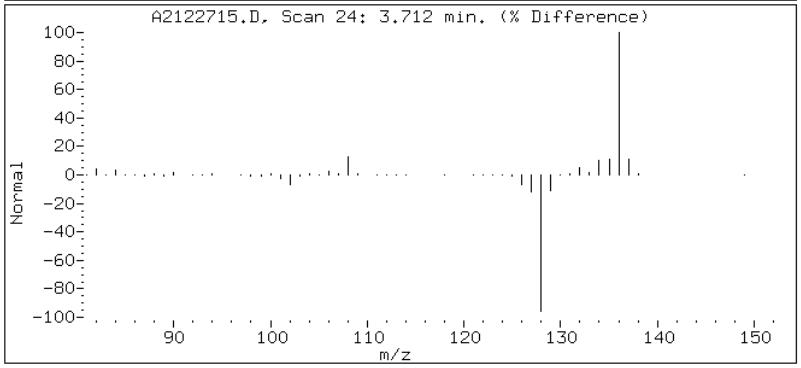












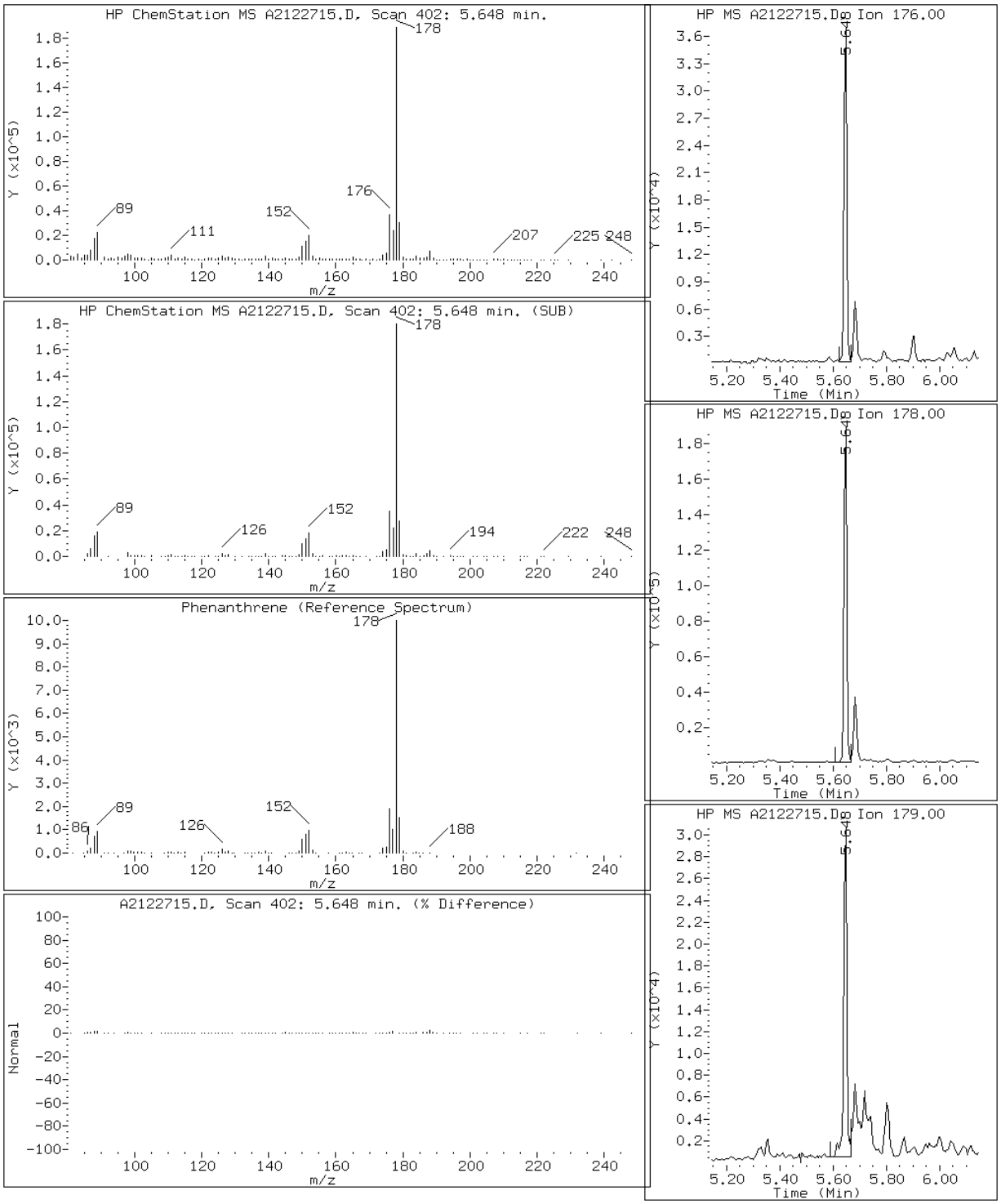
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



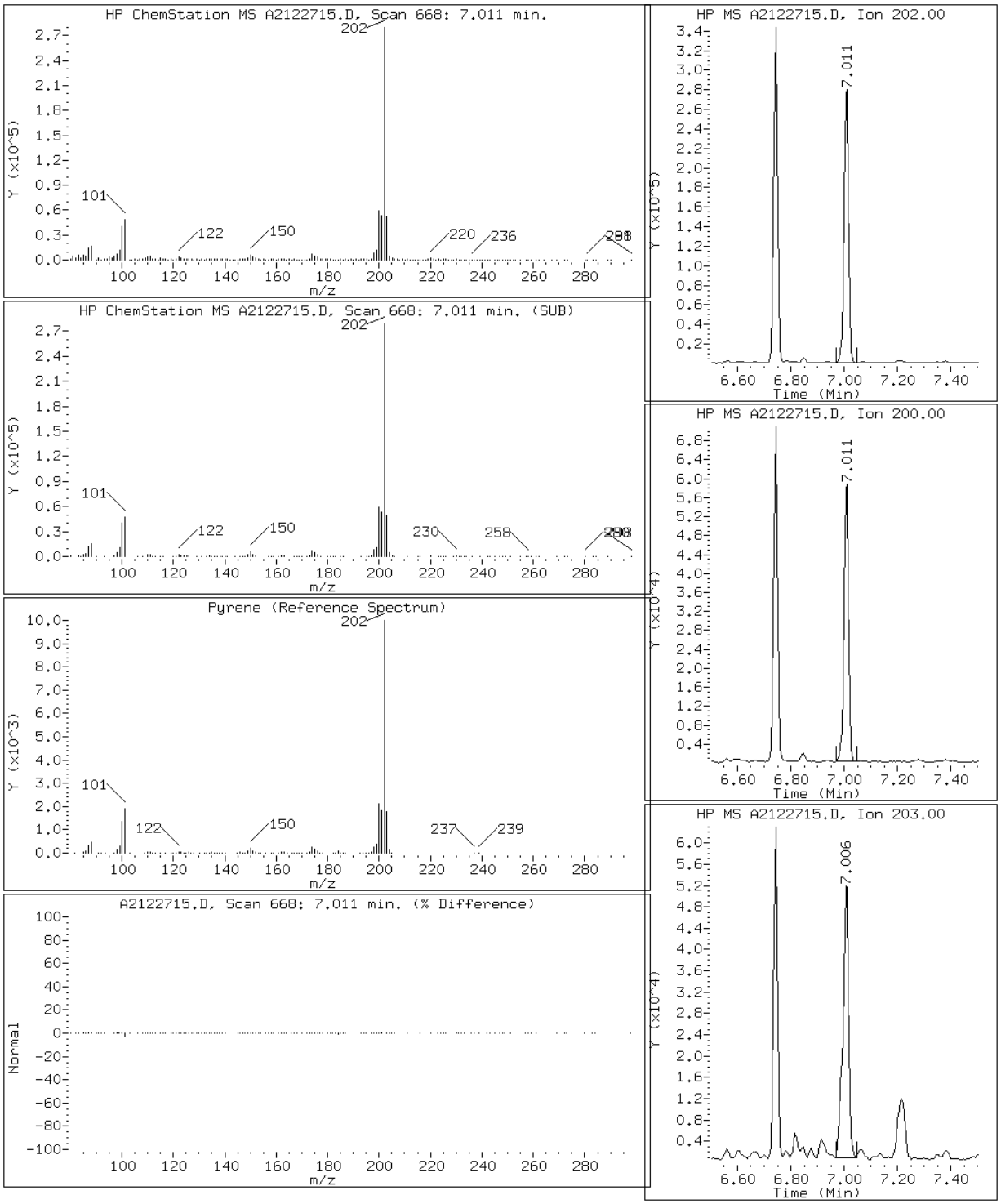
Data File: A2122715.D

Date: 27-DEC-2012 12:02

Client ID: CV0511T-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-53-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511U-CS | Lab Sample ID: 680-85785-54

Matrix: Solid | Lab File ID: A2122728.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:28

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.04(g) | Date Analyzed: 12/27/2012 19:03

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

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

% Moisture: 35.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41		21	1.8
208-96-8	Acenaphthylene	18	J	21	1.6
120-12-7	Anthracene	130		21	2.0
56-55-3	Benzo[a]anthracene	620	B	21	1.9
50-32-8	Benzo[a]pyrene	690	B	21	2.1
205-99-2	Benzo[b]fluoranthene	1100	B	21	2.9
191-24-2	Benzo[g,h,i]perylene	170	B	21	3.4
207-08-9	Benzo[k]fluoranthene	400	B	21	2.0
218-01-9	Chrysene	620	B	21	2.3
53-70-3	Dibenz(a,h)anthracene	67	B	21	2.0
206-44-0	Fluoranthene	1000	B	21	1.9
86-73-7	Fluorene	37		21	1.6
193-39-5	Indeno[1,2,3-cd]pyrene	230	B	21	3.4
90-12-0	1-Methylnaphthalene	25		21	1.6
91-57-6	2-Methylnaphthalene	30		21	1.6
91-20-3	Naphthalene	30		21	1.6
85-01-8	Phenanthrene	500		21	1.4
129-00-0	Pyrene	950	B	21	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	73		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122728.D
Lab Smp Id: 680-85785-A-54-A Client Smp ID: CV0511U-CS
Inj Date : 27-DEC-2012 19:03
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-54-A~98123~2~8270D/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: 23
Dil Factor: 2.00000
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	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.040	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	3.706	3.705	(1.000)	1616161	40.0000		
2 Naphthalene	128	3.716	3.720	(1.003)	13172	0.28936	19	
3 2-Methylnaphthalene	142	4.075	4.079	(1.100)	8346	0.29011	19	
4 1-Methylnaphthalene	142	4.131	4.135	(1.115)	7134	0.23963	16	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	852894	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	7902	0.17288	12(a)	
7 Acenaphthene	153	4.674	4.678	(1.003)	11280	0.40116	27	
8 Fluorene	166	4.982	4.980	(1.069)	11541	0.35961	24	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1326453	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	41303	4.80487	320	
11 Anthracene	178	5.683	5.687	(1.009)	58167	1.28337	85	
$ 12 o-Terphenyl	230	5.899	5.903	(1.047)	40650	1.45009	96	
13 Fluoranthene	202	6.744	6.743	(1.197)	527608	10.0193	670	
* 14 Chrysene-d12	240	8.742	8.736	(1.000)	1613305	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	7.010	7.004	(0.802)	503500	9.15701	610	
16 Benzo(a)anthracene	226	8.717	8.700	(0.997)	87992	6.01279	400	
17 Chrysene	228	8.773	8.772	(1.004)	301895	6.03784	400	
* 18 Perylene-d12	264	11.237	11.241	(1.000)	1058457	40.0000		
19 Benzo(b)fluoranthene	252	10.556	10.544	(0.939)	345786	10.5935	700	
20 Benzo(k)fluoranthene	252	10.597	10.596	(0.943)	130259	3.90733	260	
21 Benzo(a)pyrene	252	11.114	11.113	(0.989)	197153	6.68470	440	
22 Indeno(1,2,3-cd)pyrene	276	12.990	12.993	(1.156)	65978	2.21976	150	
23 Dibenzo(a,h)anthracene	278	13.031	13.039	(1.160)	19396	0.64411	43	
24 Benzo(g,h,i)perylene	276	13.446	13.444	(1.196)	48785	1.65674	110	

QC Flag Legend

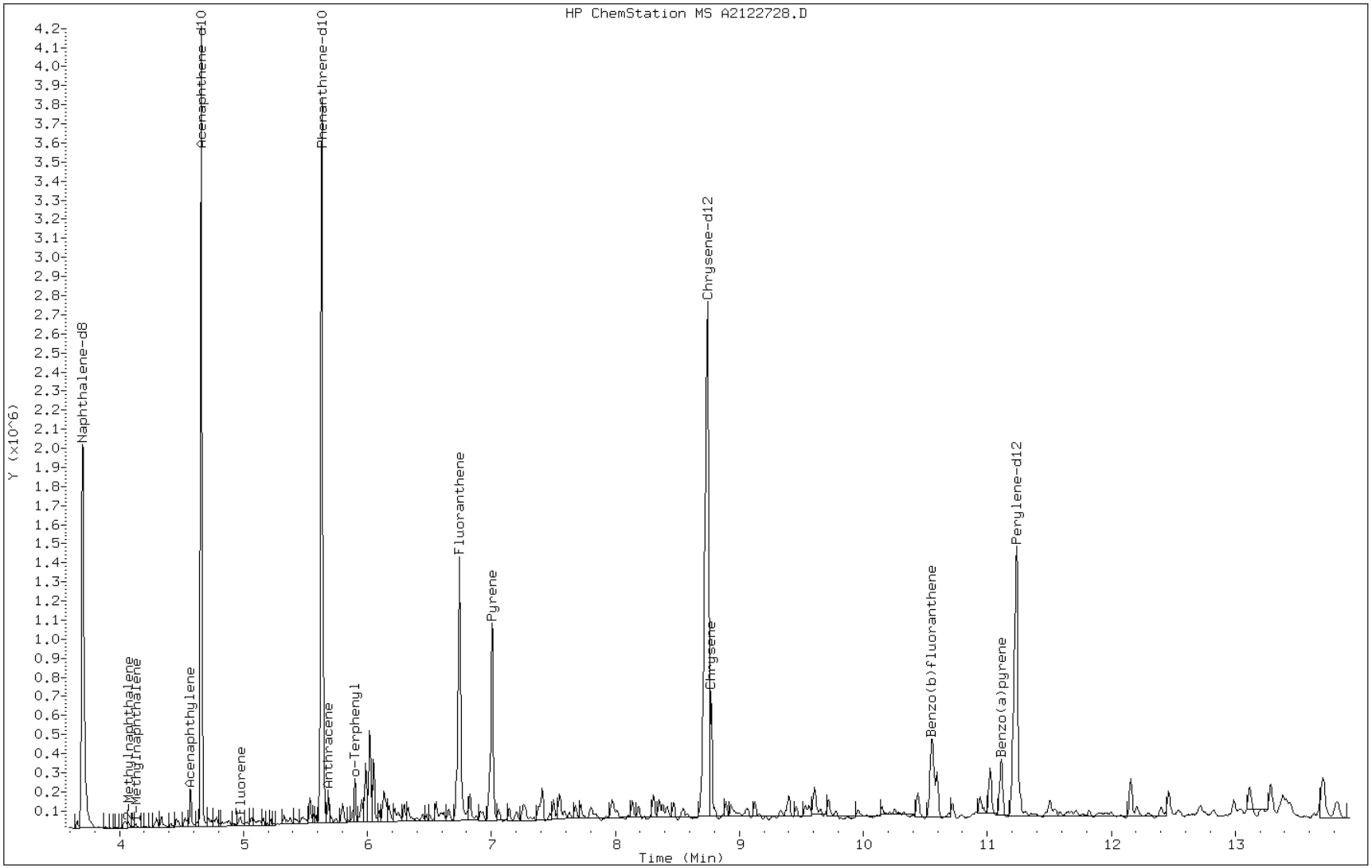
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW



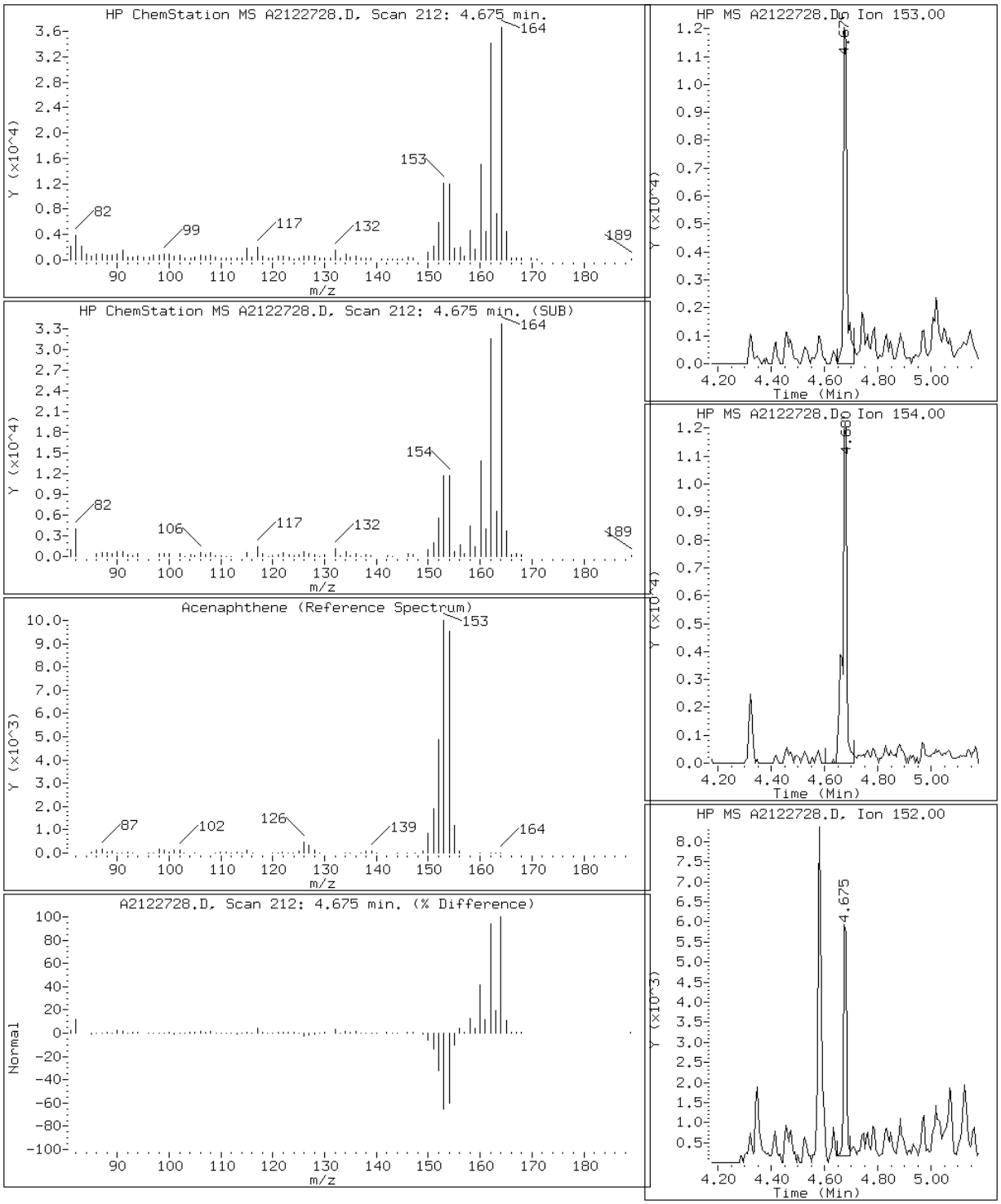
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

7 Acenaphthene



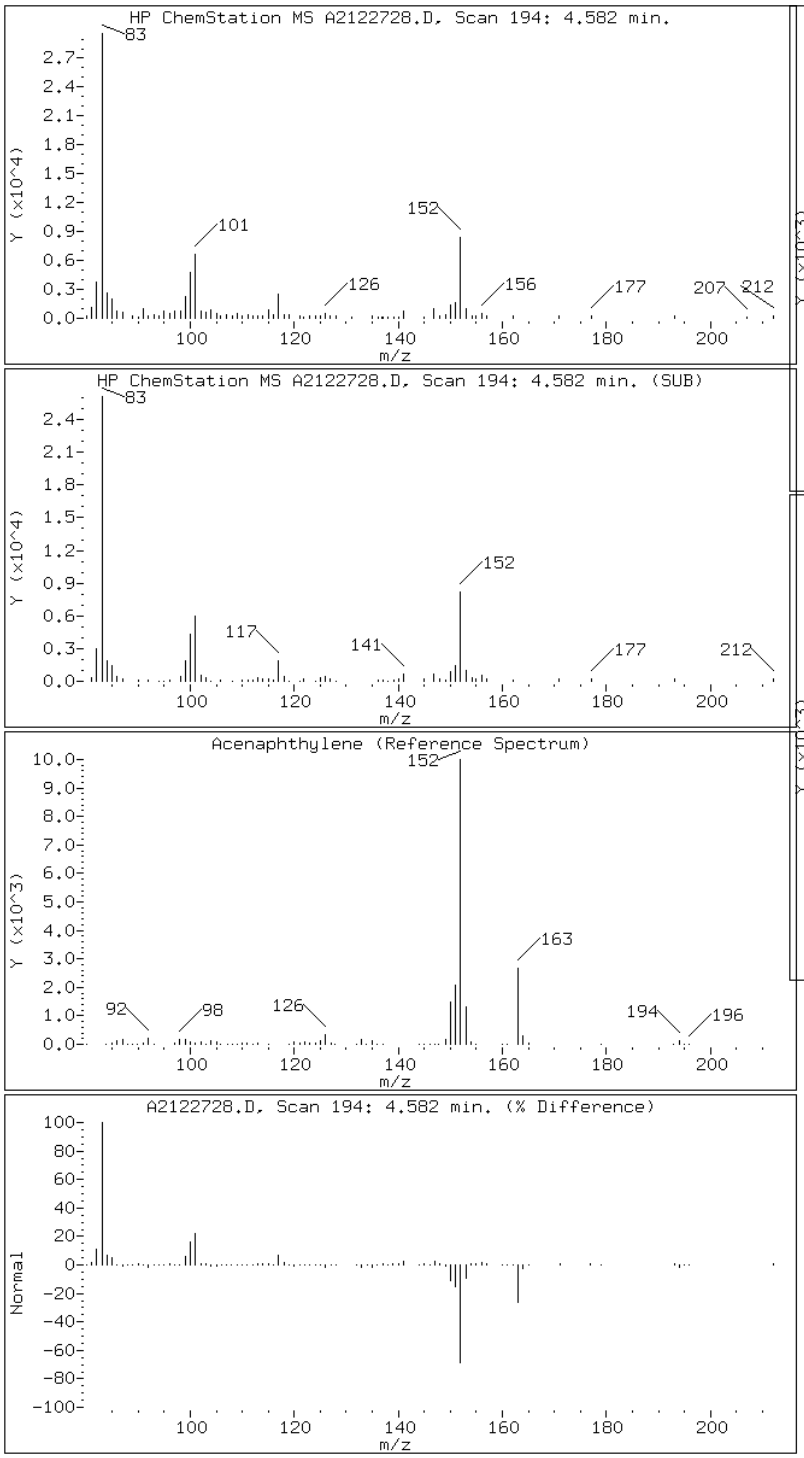
Data File: A2122728.D

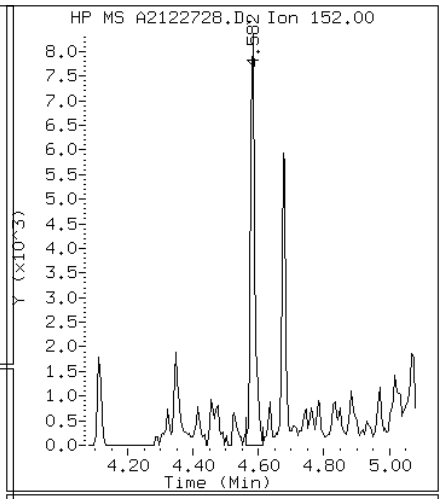
Date: 27-DEC-2012 19:03

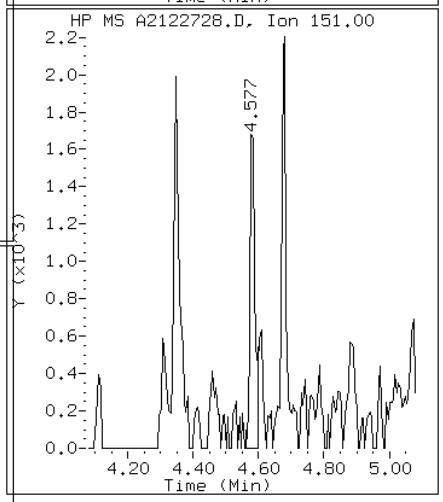
Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

6 Acenaphthylene







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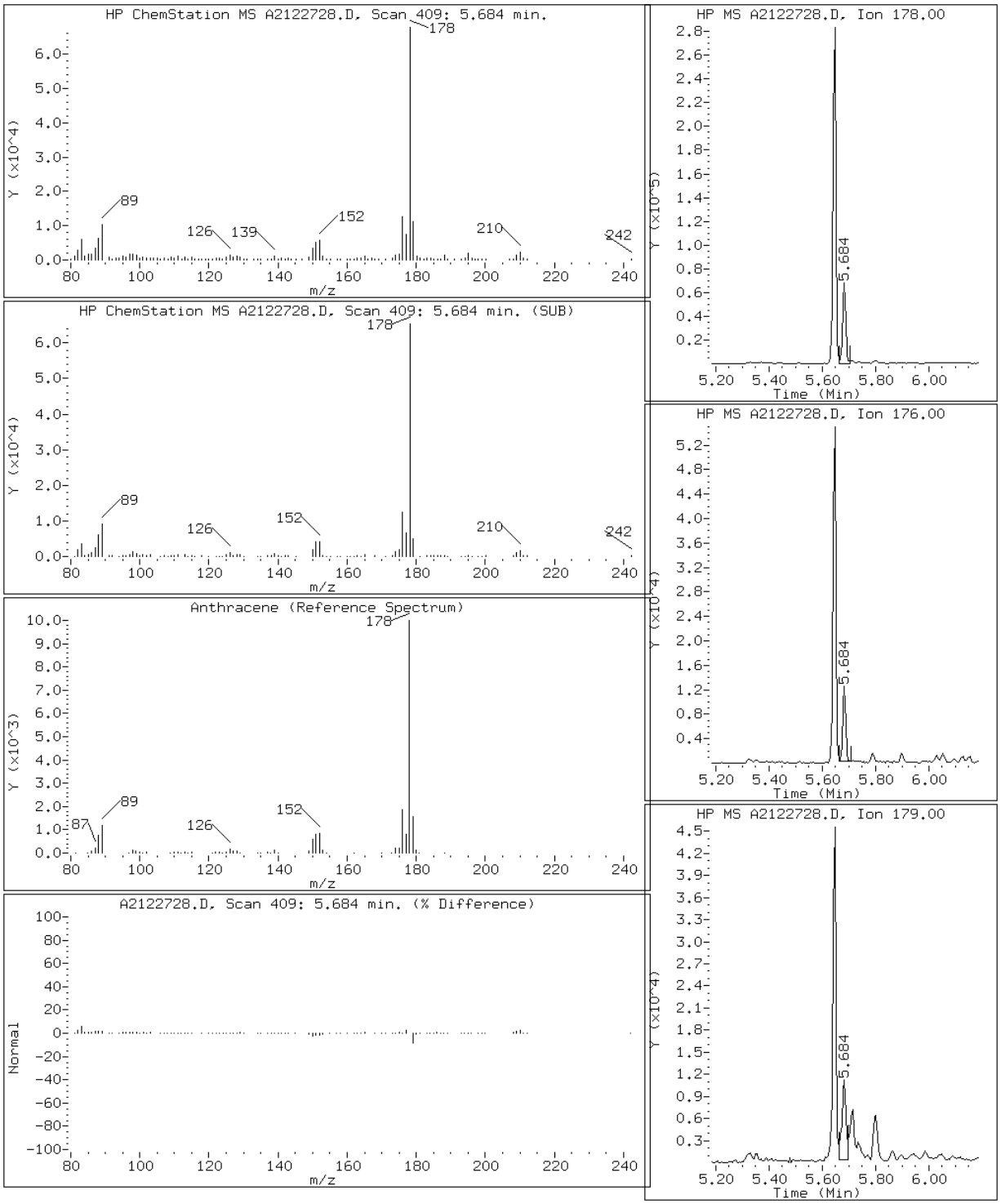
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

11 Anthracene



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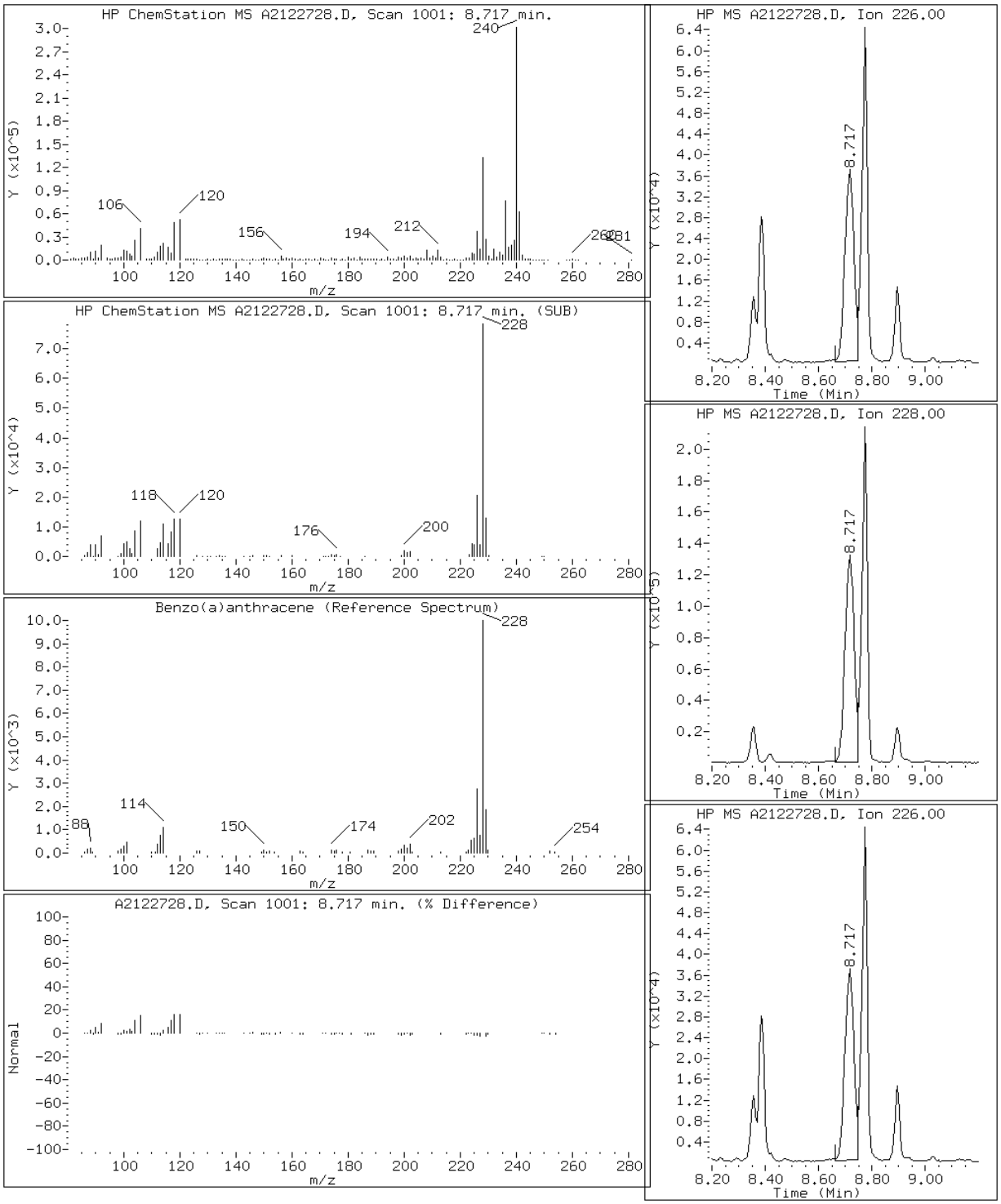
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

16 Benzo(a)anthracene



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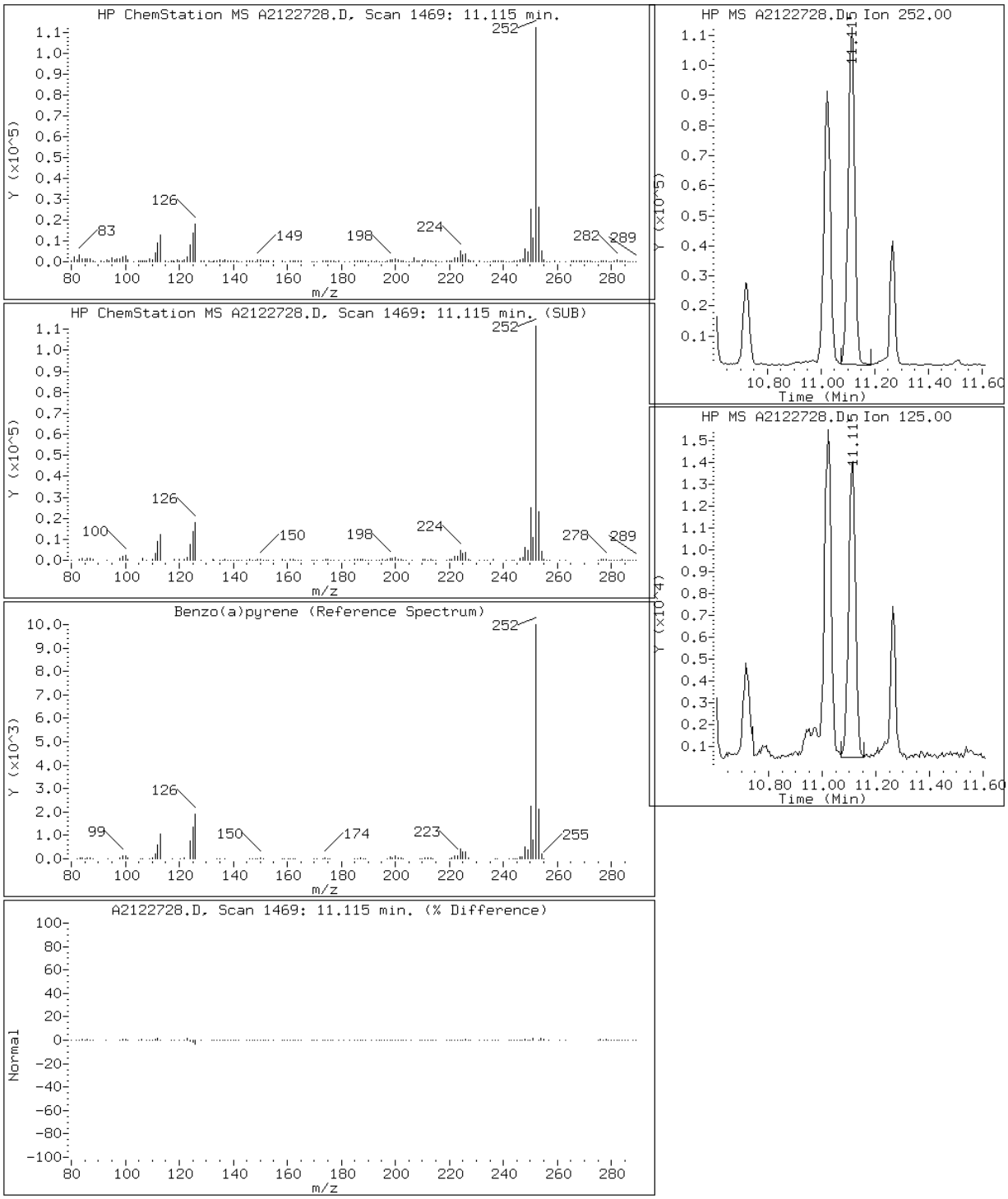
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

21 Benzo(a)pyrene



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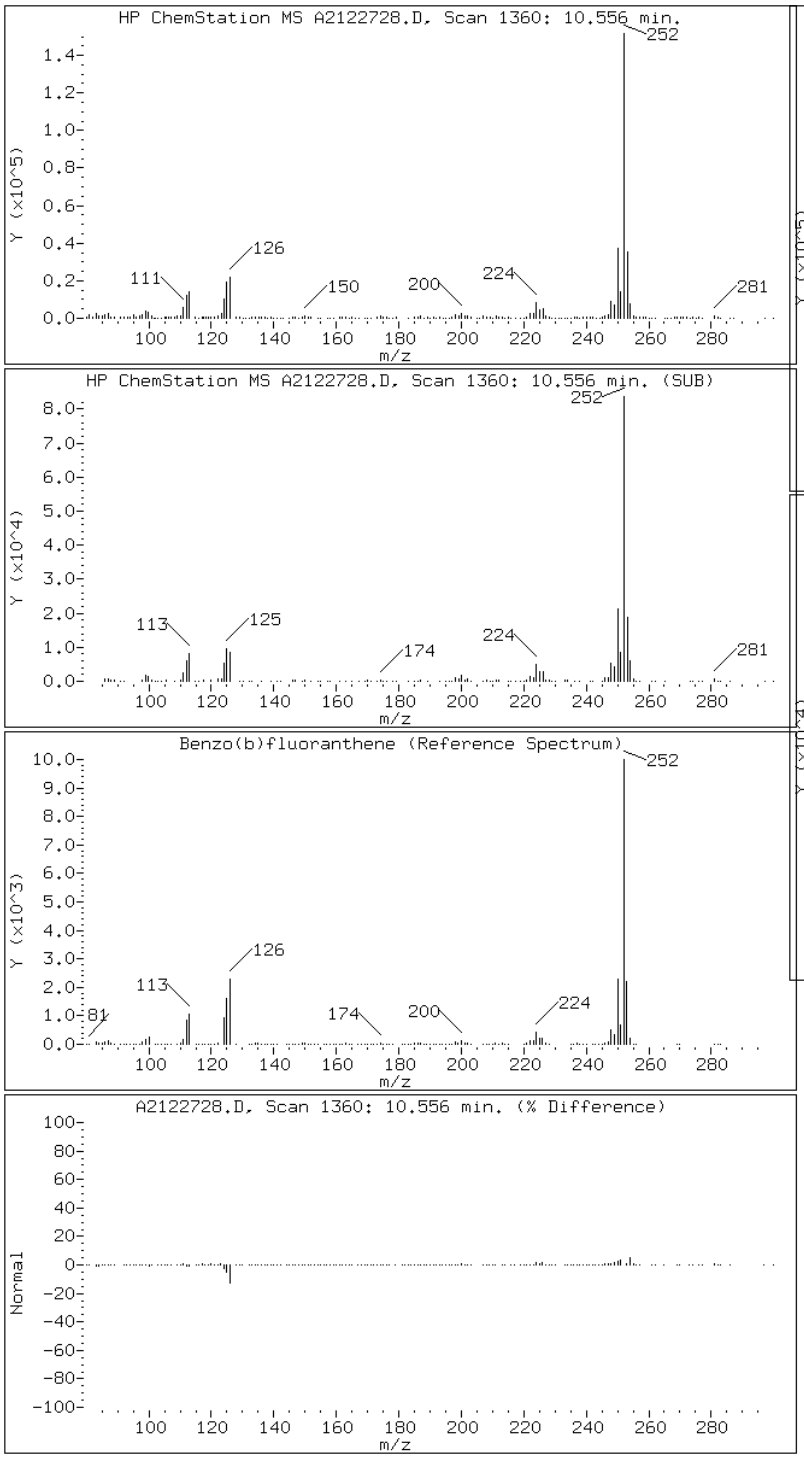
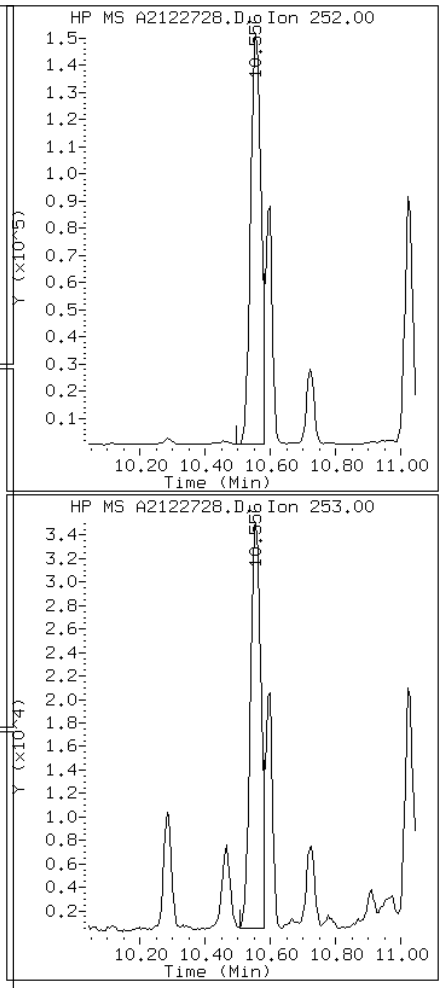
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

19 Benzo(b)fluoranthene





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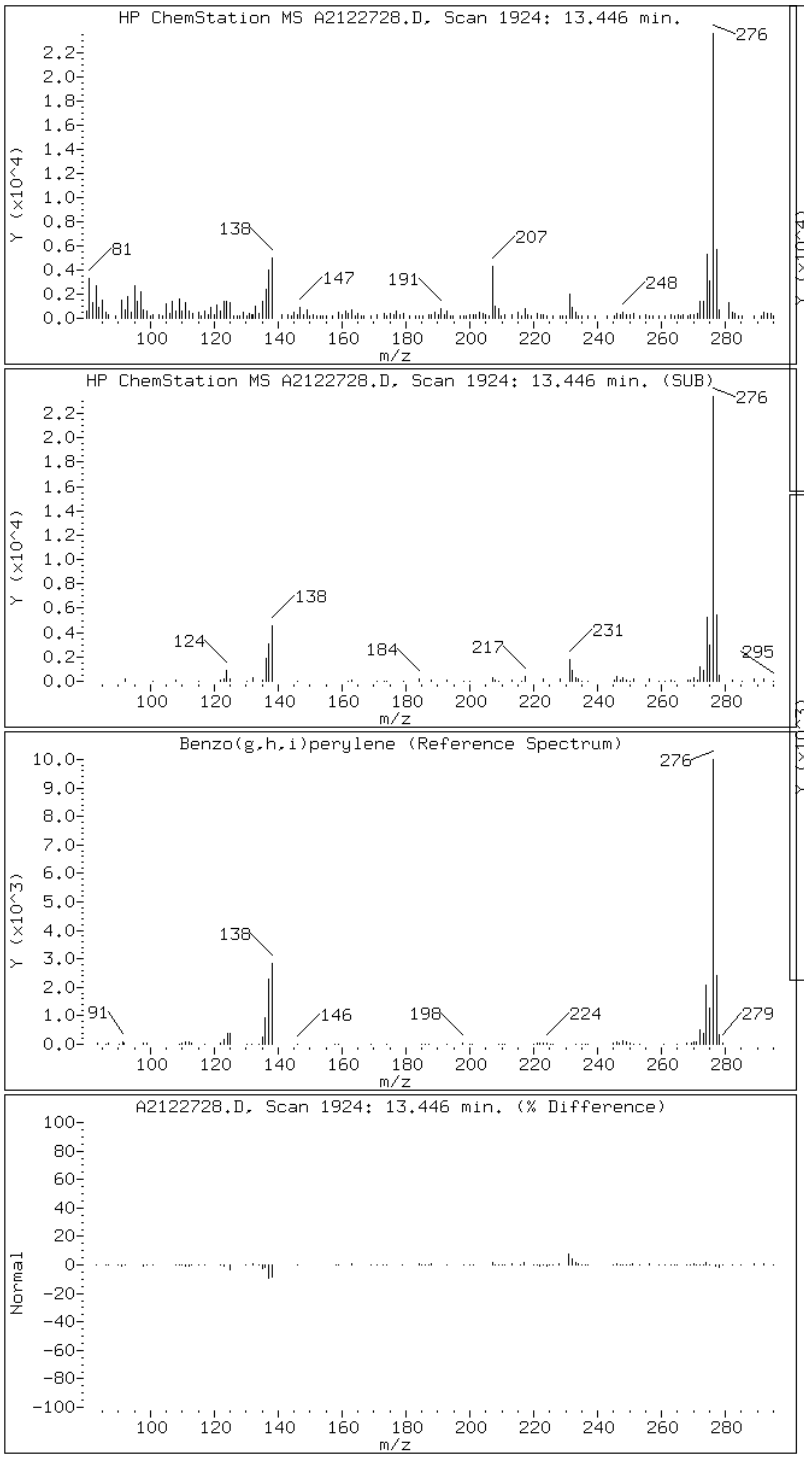
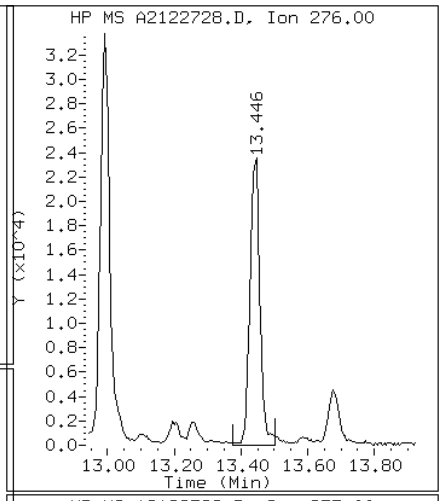
Date: 27-DEC-2012 19:03

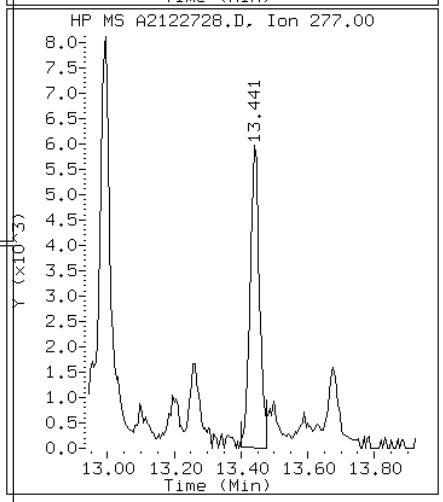
Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







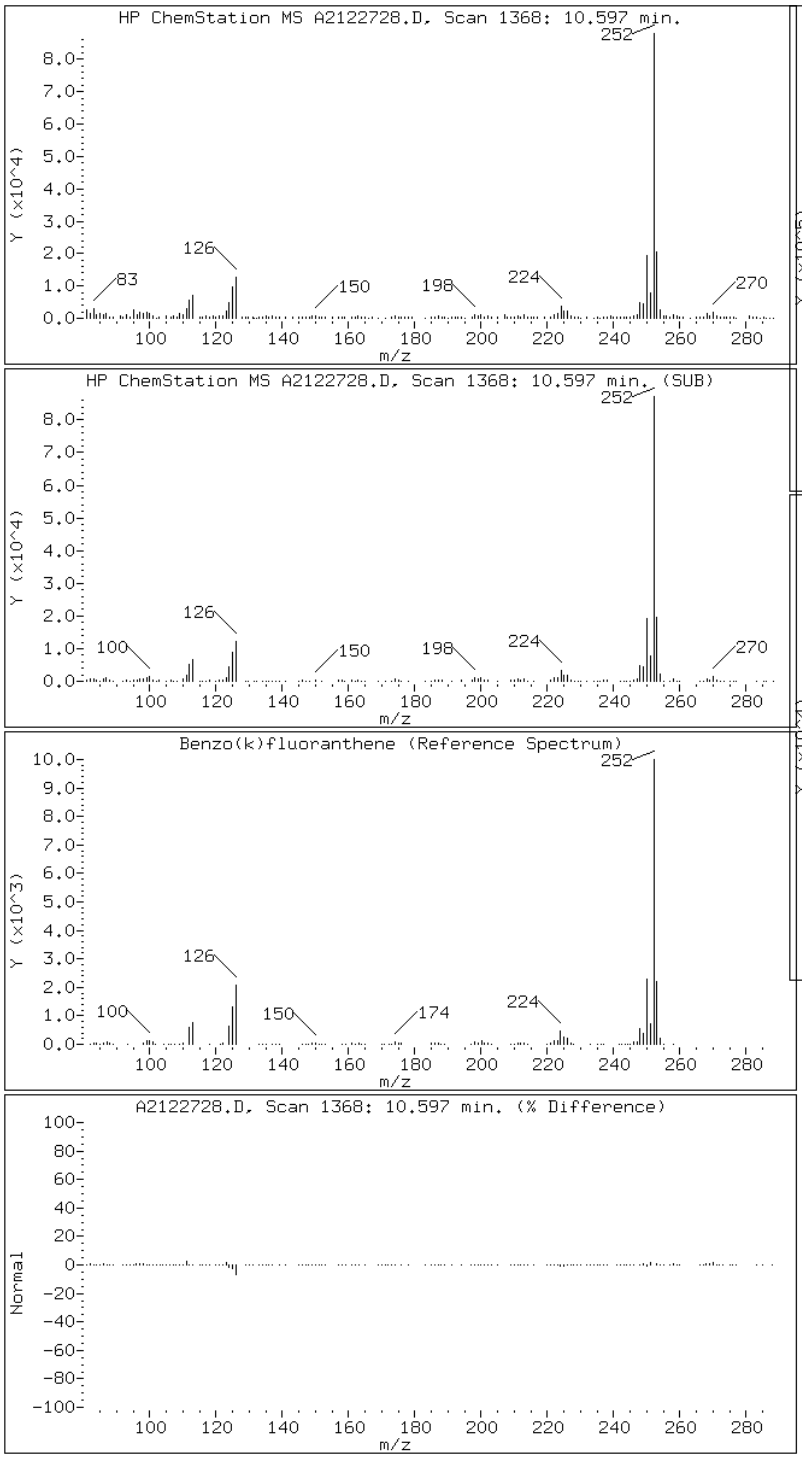
Data File: A2122728.D

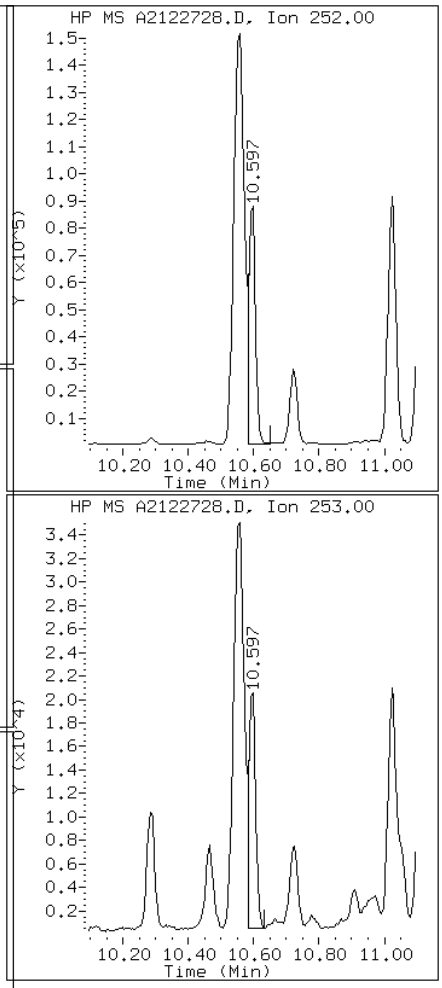
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

20 Benzo(k)fluoranthene





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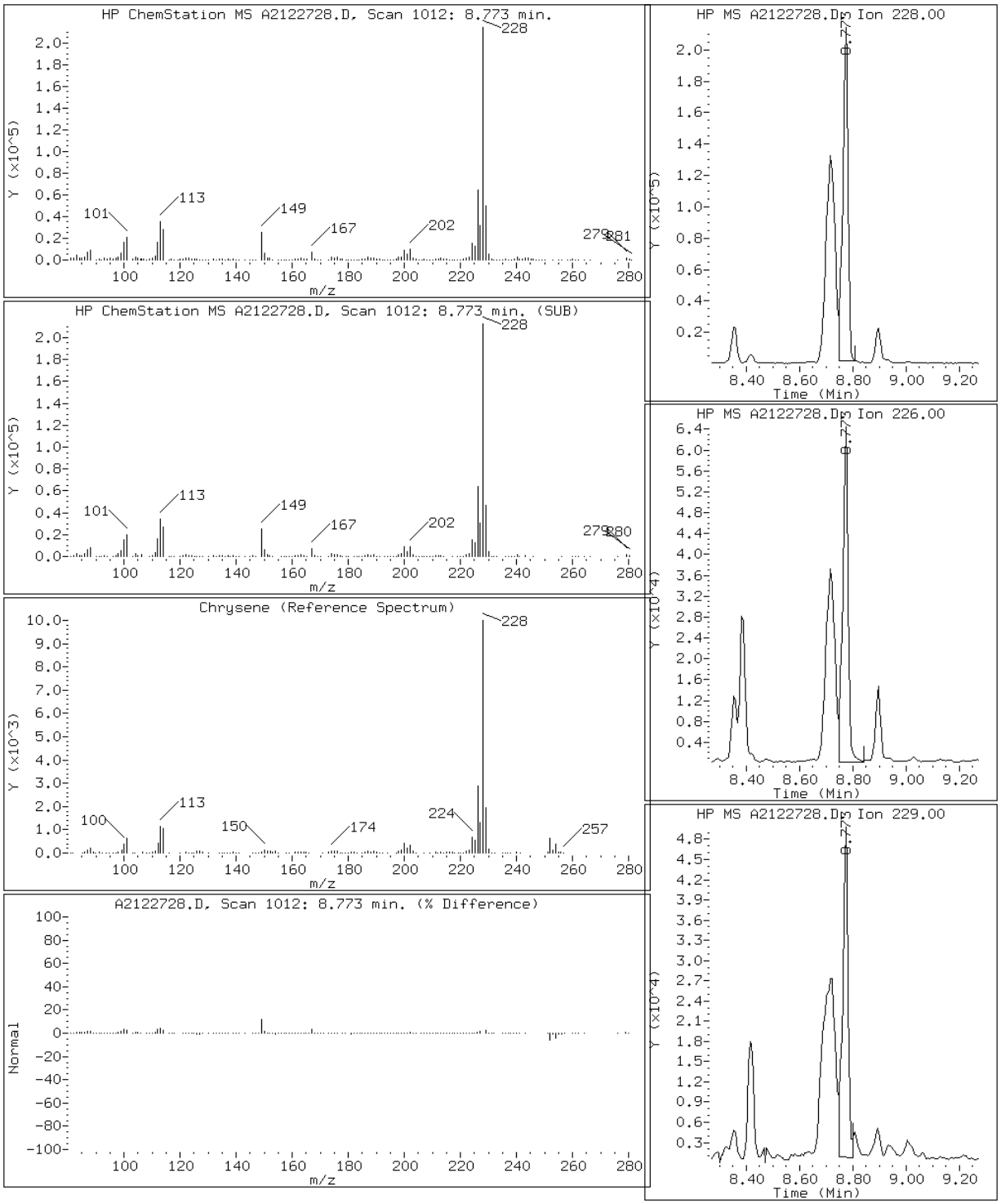
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

17 Chrysene



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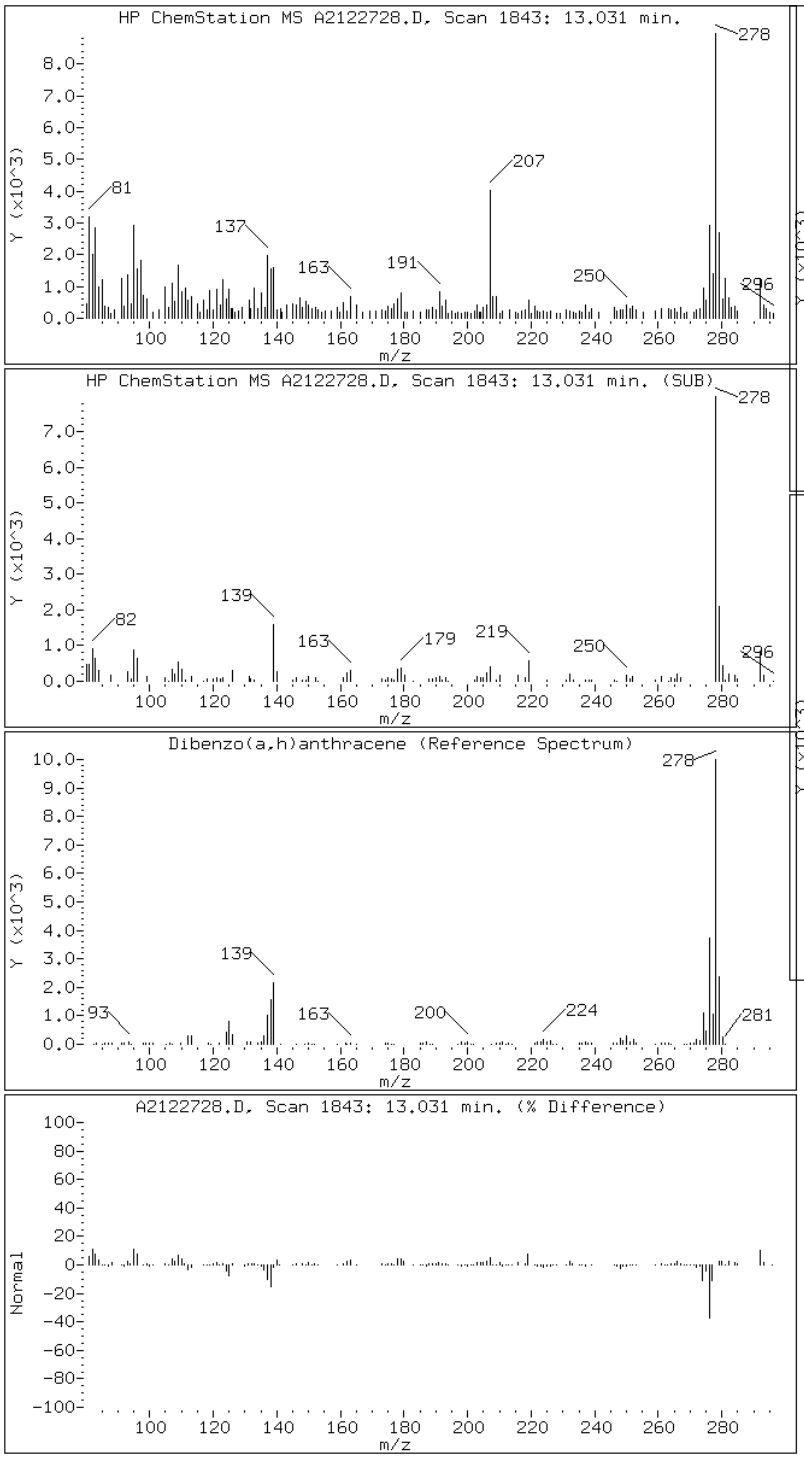
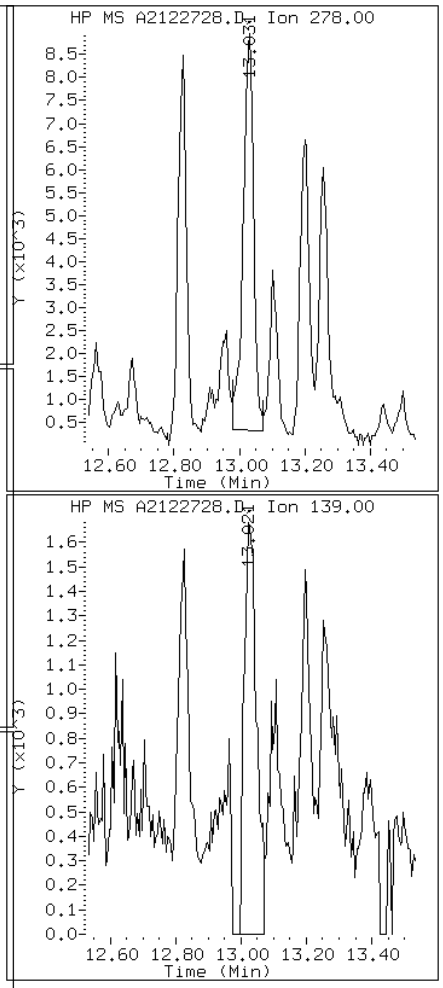
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene





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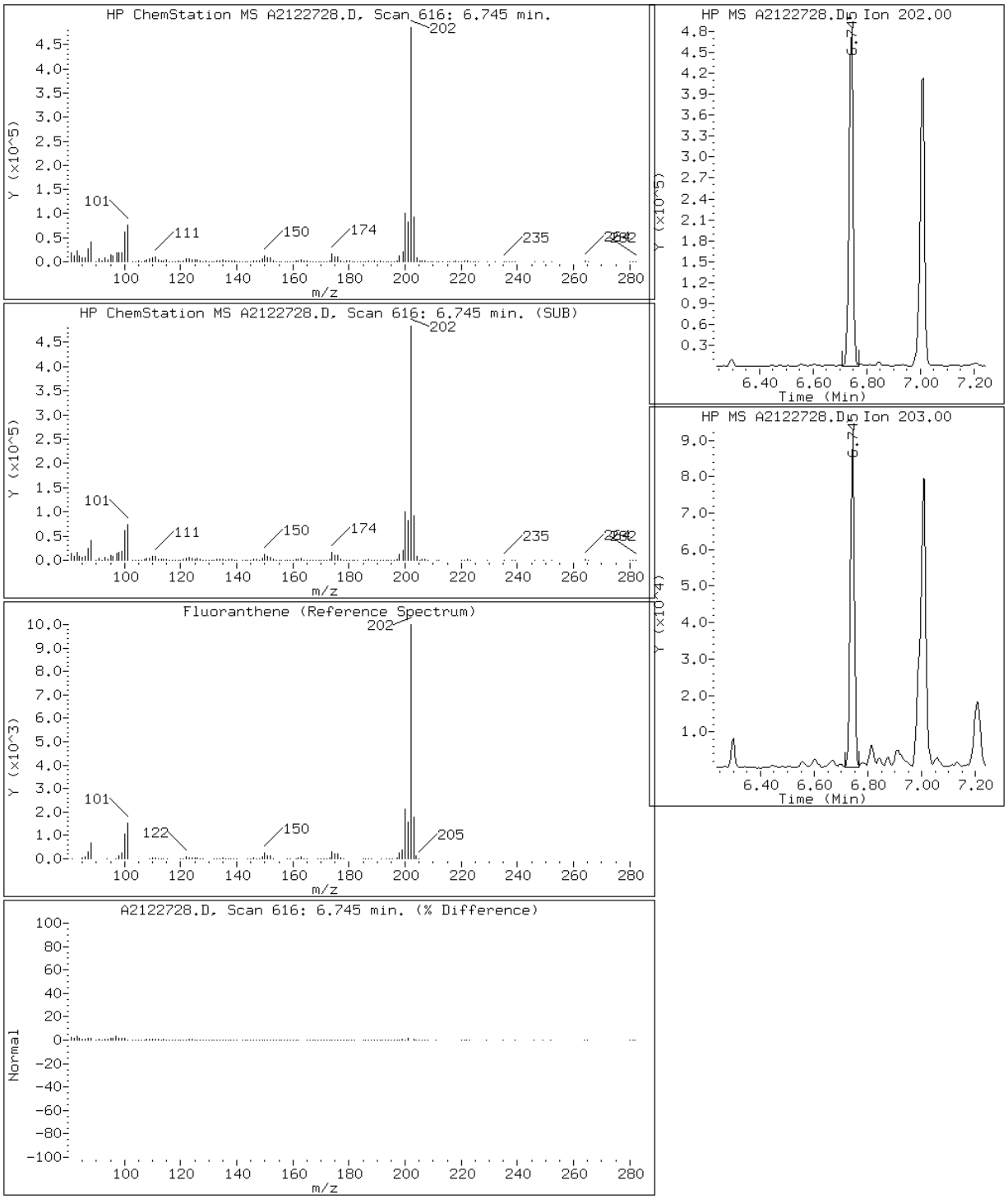
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

13 Fluoranthene



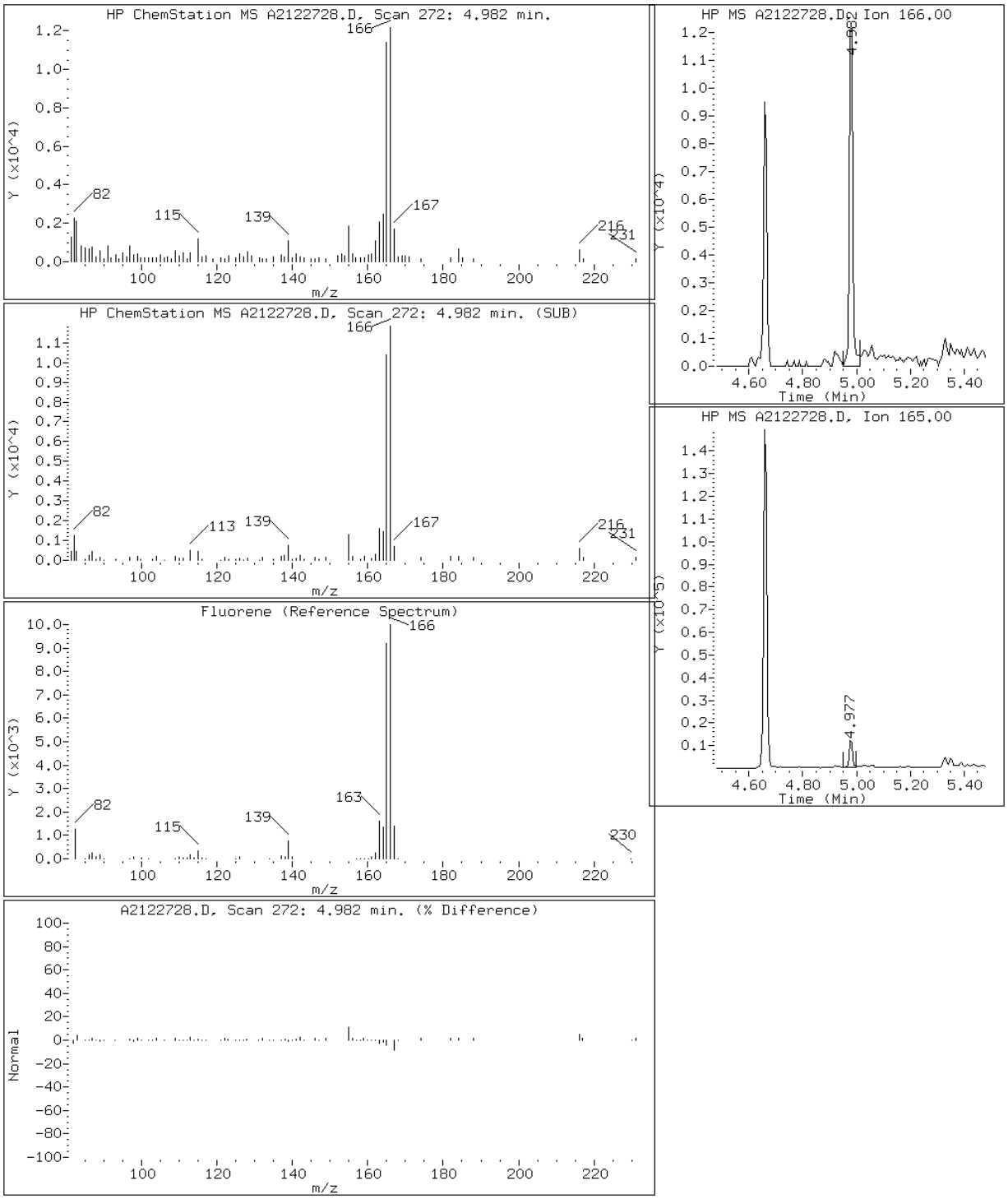
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

8 Fluorene



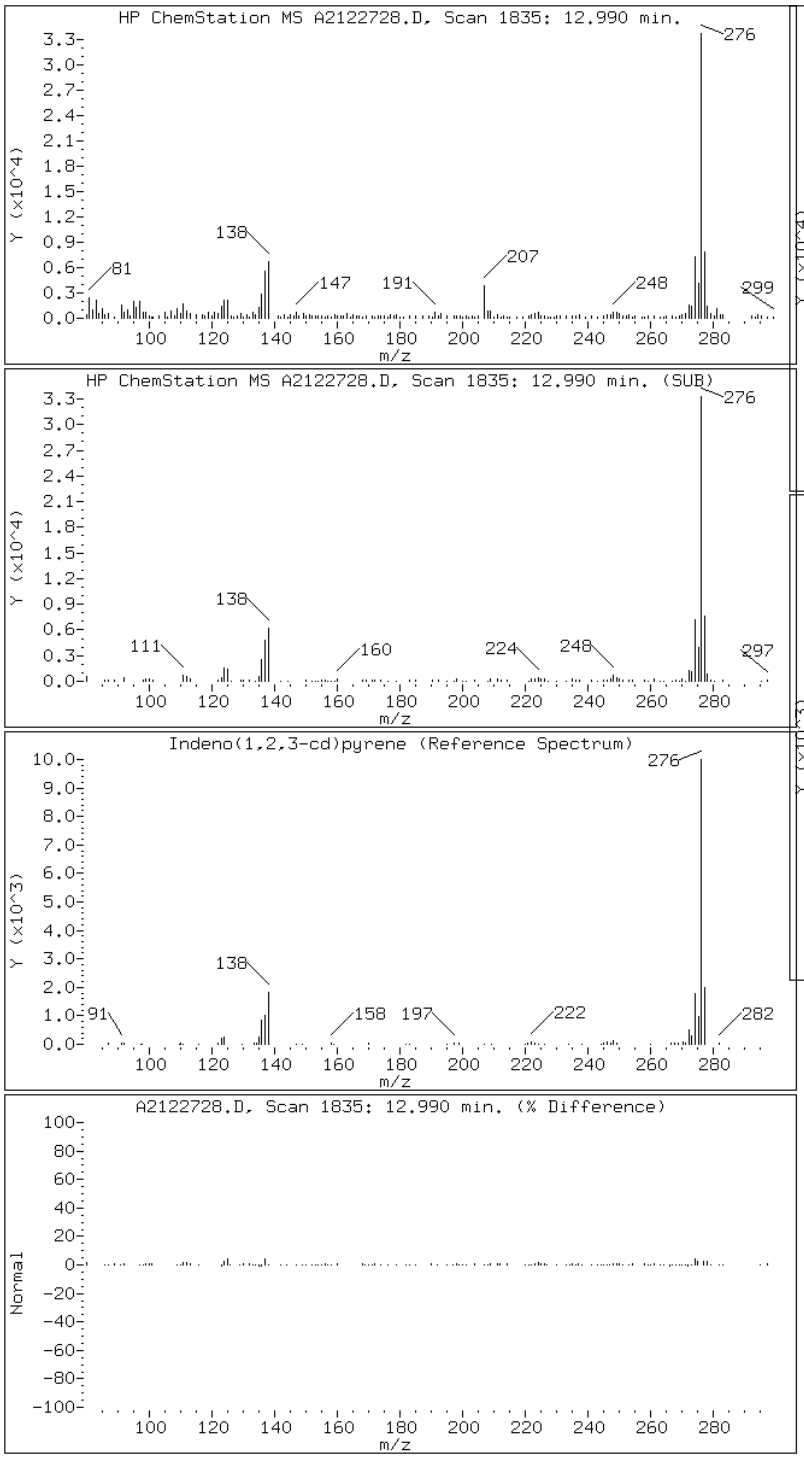
Data File: A2122728.D

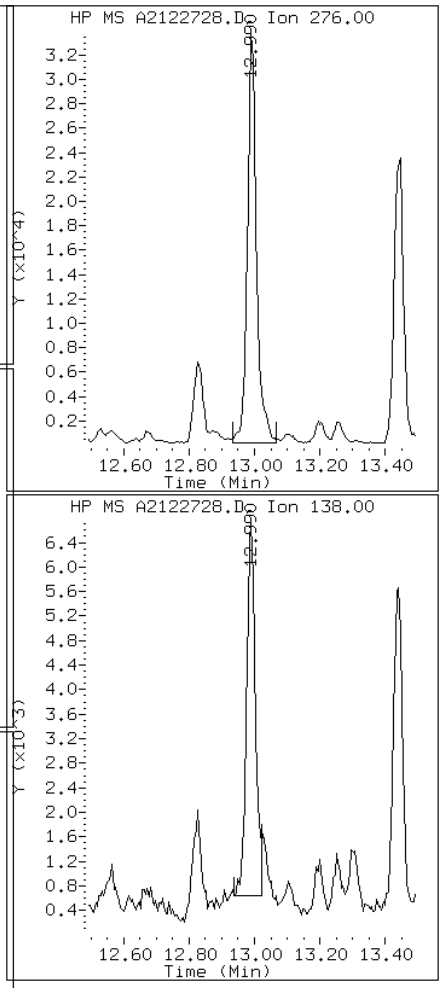
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

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





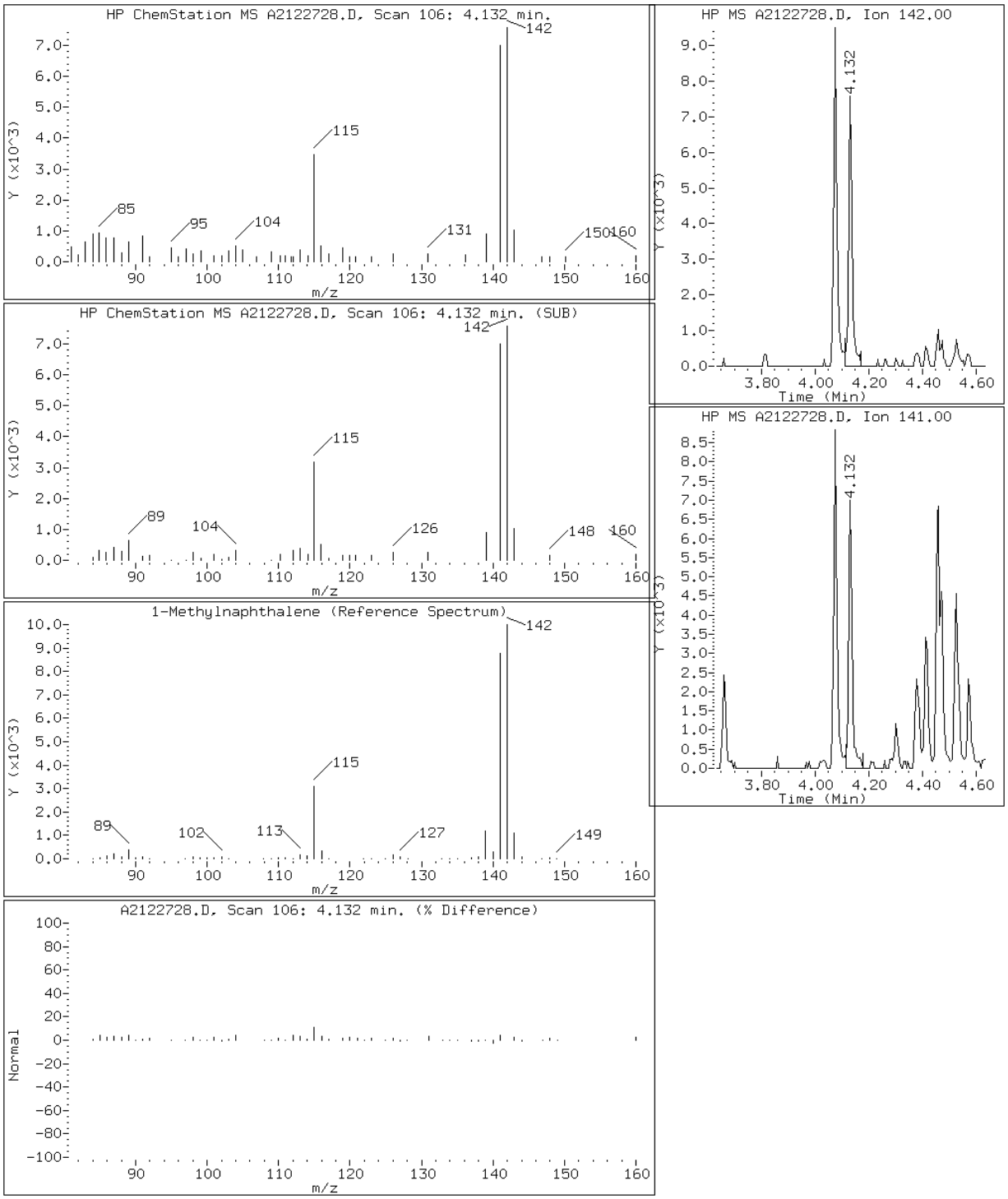
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

4 1-Methylnaphthalene



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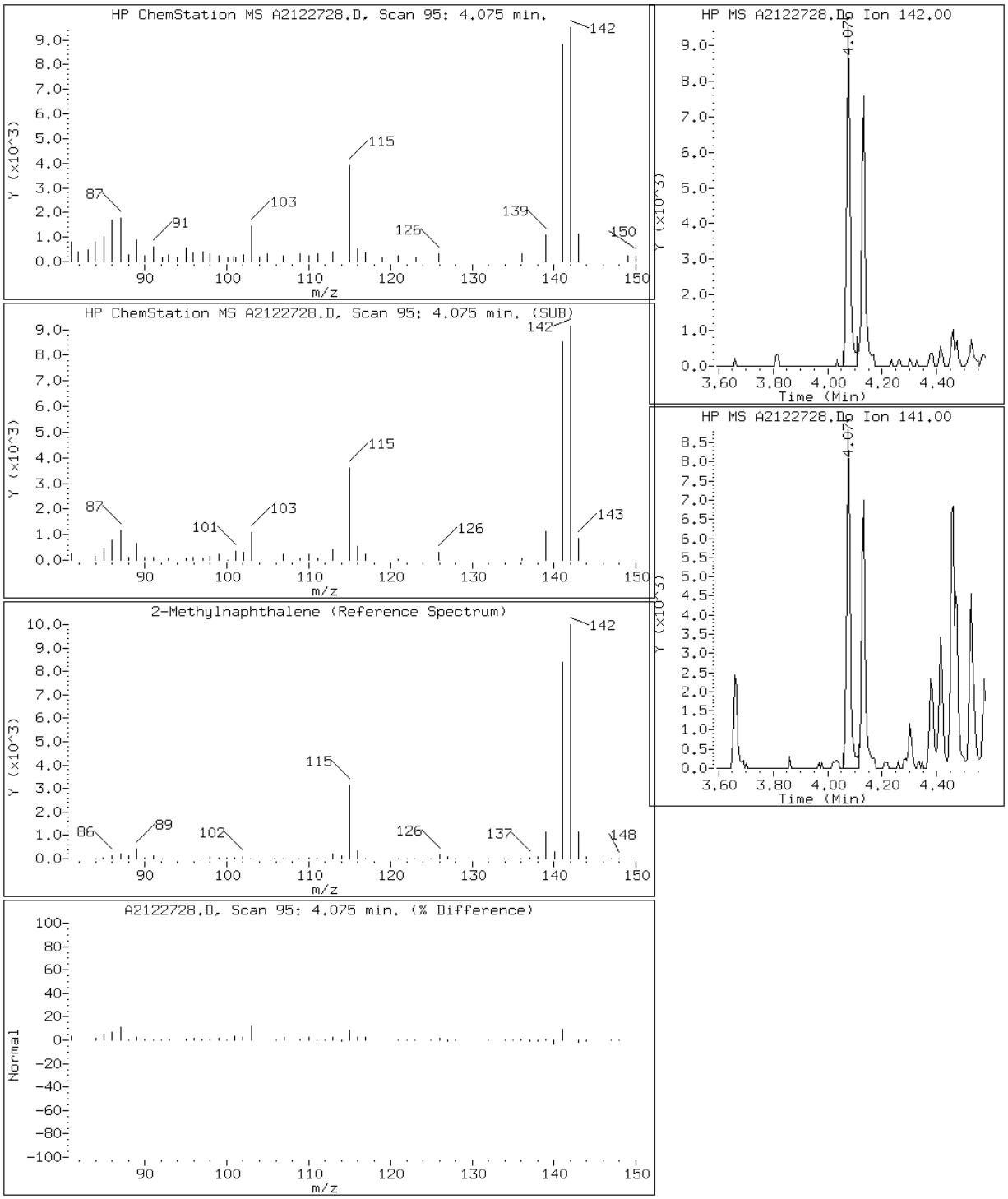
Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

3 2-Methylnaphthalene



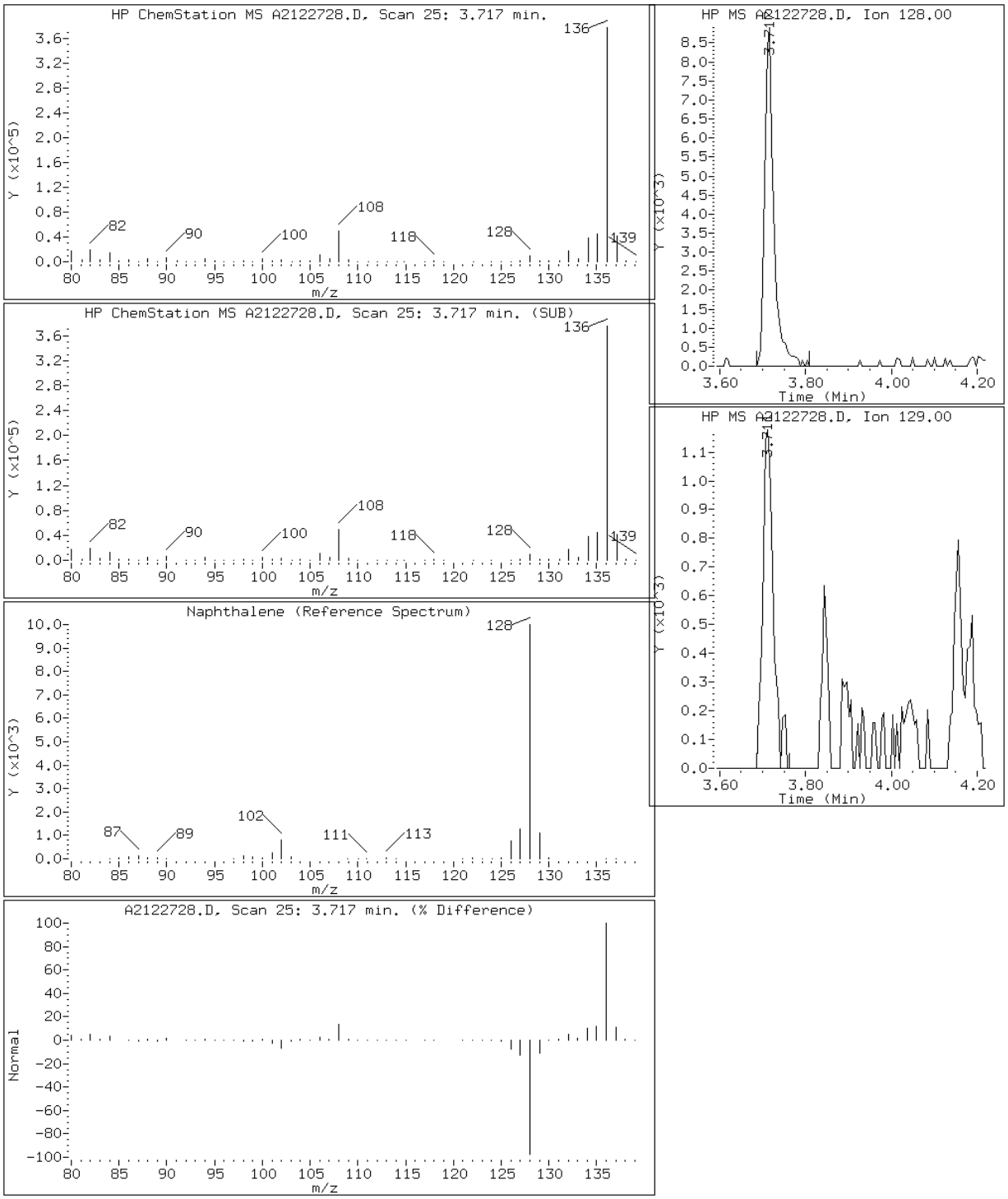
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

2 Naphthalene



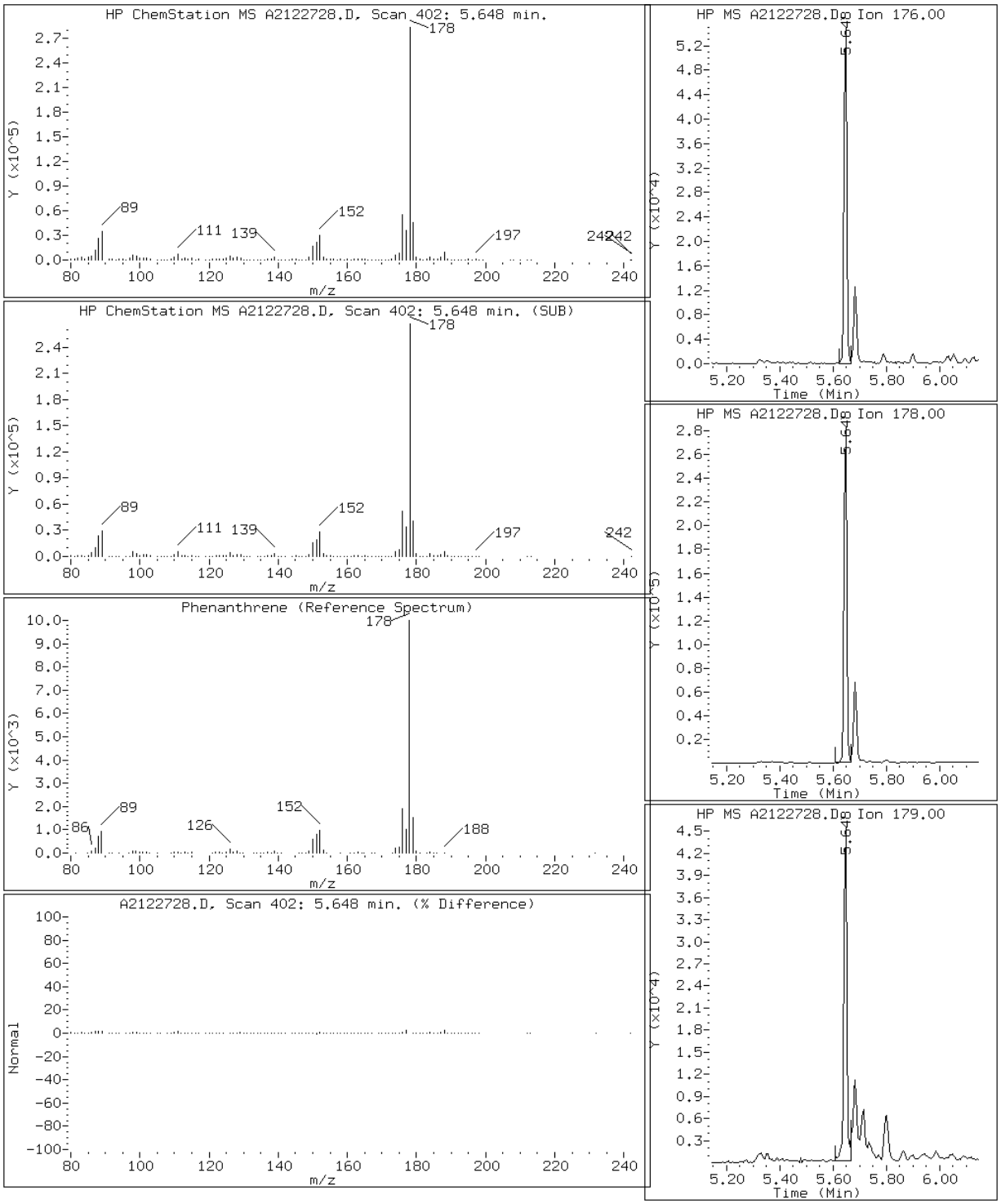
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

10 Phenanthrene



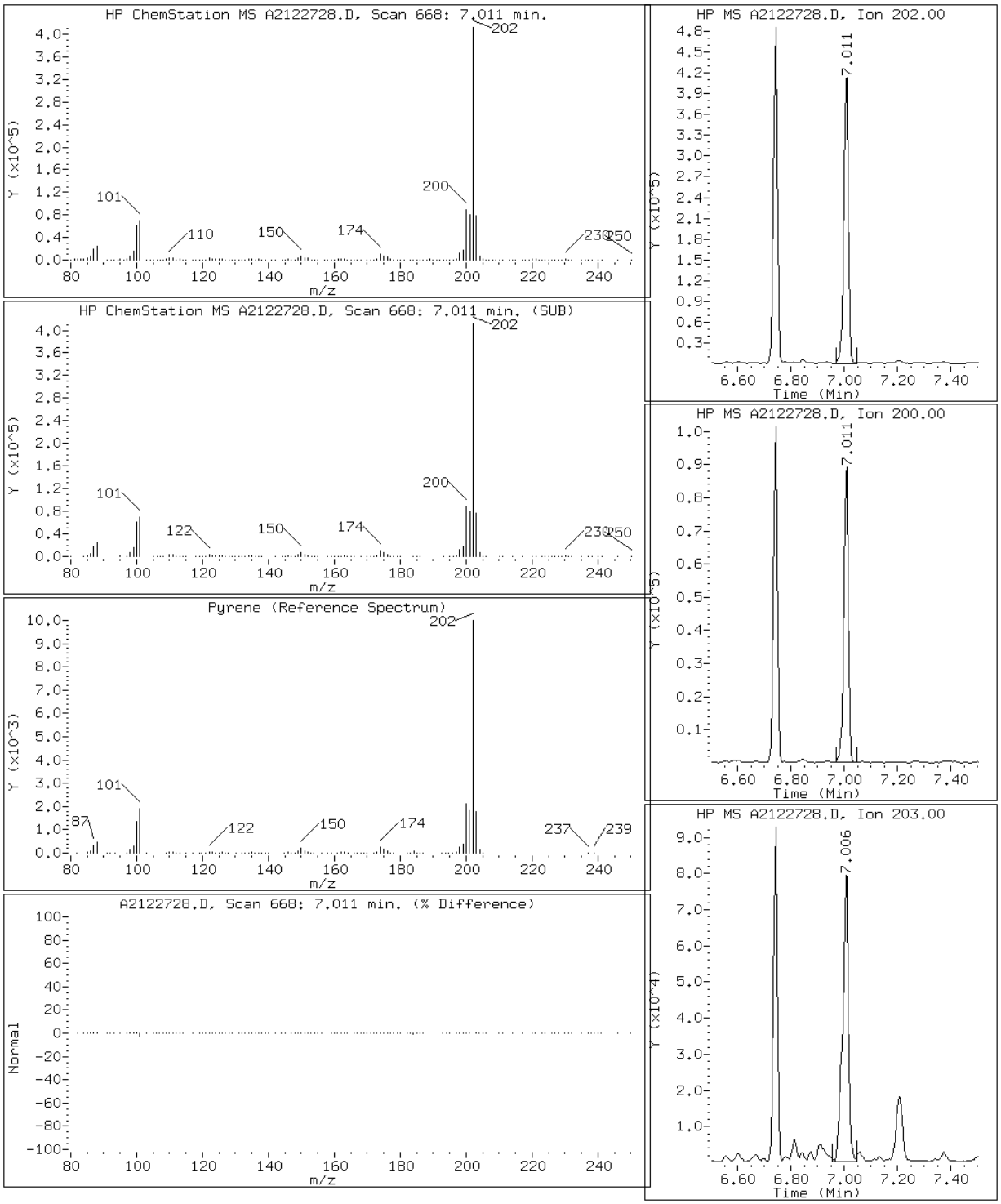
Data File: A2122728.D

Date: 27-DEC-2012 19:03

Client ID: CV0511U-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-54-A~98123~2~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511V-CS | Lab Sample ID: 680-85785-55

Matrix: Solid | Lab File ID: A2122729.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:40

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.47(g) | Date Analyzed: 12/27/2012 19:21

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

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

% Moisture: 33.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	35		20	1.7
208-96-8	Acenaphthylene	17	J	20	1.6
120-12-7	Anthracene	98		20	2.0
56-55-3	Benzo[a]anthracene	520	B	20	1.8
50-32-8	Benzo[a]pyrene	610	B	20	2.0
205-99-2	Benzo[b]fluoranthene	960	B	20	2.8
191-24-2	Benzo[g,h,i]perylene	170	B	20	3.3
207-08-9	Benzo[k]fluoranthene	350	B	20	1.9
218-01-9	Chrysene	530	B	20	2.2
53-70-3	Dibenz(a,h)anthracene	62	B	20	1.9
206-44-0	Fluoranthene	900	B	20	1.8
86-73-7	Fluorene	31		20	1.6
193-39-5	Indeno[1,2,3-cd]pyrene	200	B	20	3.3
90-12-0	1-Methylnaphthalene	21		20	1.6
91-57-6	2-Methylnaphthalene	25		20	1.6
91-20-3	Naphthalene	22		20	1.6
85-01-8	Phenanthrene	430		20	1.3
129-00-0	Pyrene	840	B	20	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	56		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122729.D
Lab Smp Id: 680-85785-A-55-A Client Smp ID: CV0511V-CS
Inj Date : 27-DEC-2012 19:21
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-55-A~98123~2~8270D/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: 24
Dil Factor: 2.00000
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	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.470	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	3.702	3.705	(1.000)	1547493	40.0000		
2 Naphthalene	128	3.712	3.720	(1.003)	9573	0.21963	14	
3 2-Methylnaphthalene	142	4.076	4.079	(1.101)	6797	0.24675	16	
4 1-Methylnaphthalene	142	4.133	4.135	(1.116)	6095	0.21381	14	
* 5 Acenaphthene-d10	164	4.660	4.663	(1.000)	826152	40.0000		
6 Acenaphthylene	152	4.578	4.581	(0.982)	7565	0.17086	11(a)	
7 Acenaphthene	153	4.676	4.678	(1.003)	9537	0.34998	23	
8 Fluorene	166	4.978	4.980	(1.068)	9676	0.31125	20	
* 9 Phenanthrene-d10	188	5.629	5.631	(1.000)	1278237	40.0000		
10 Phenanthrene	176	5.644	5.646	(1.003)	36065	4.34821	280	
11 Anthracene	178	5.680	5.687	(1.009)	42900	0.98223	64	
$ 12 o-Terphenyl	230	5.900	5.903	(1.048)	30311	1.12206	74	
13 Fluoranthene	202	6.740	6.743	(1.198)	458475	9.03484	590	
* 14 Chrysene-d12	240	8.744	8.736	(1.000)	1536440	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	7.007	7.004	(0.801)	444868	8.49545	560	
16 Benzo(a)anthracene	226	8.713	8.700	(0.996)	73351	5.25680	340	
17 Chrysene	228	8.774	8.772	(1.004)	253717	5.32814	350	
* 18 Perylene-d12	264	11.234	11.241	(1.000)	1016901	40.0000		
19 Benzo(b)fluoranthene	252	10.552	10.544	(0.939)	304451	9.70830	640	
20 Benzo(k)fluoranthene	252	10.593	10.596	(0.943)	112380	3.50877	230	
21 Benzo(a)pyrene	252	11.111	11.113	(0.989)	175331	6.18774	410	
22 Indeno(1,2,3-cd)pyrene	276	12.991	12.993	(1.156)	58355	2.04352	130(M)	SP
23 Dibenzo(a,h)anthracene	278	13.027	13.039	(1.160)	17965	0.62097	41	
24 Benzo(g,h,i)perylene	276	13.437	13.444	(1.196)	47840	1.69104	110	

QC Flag Legend

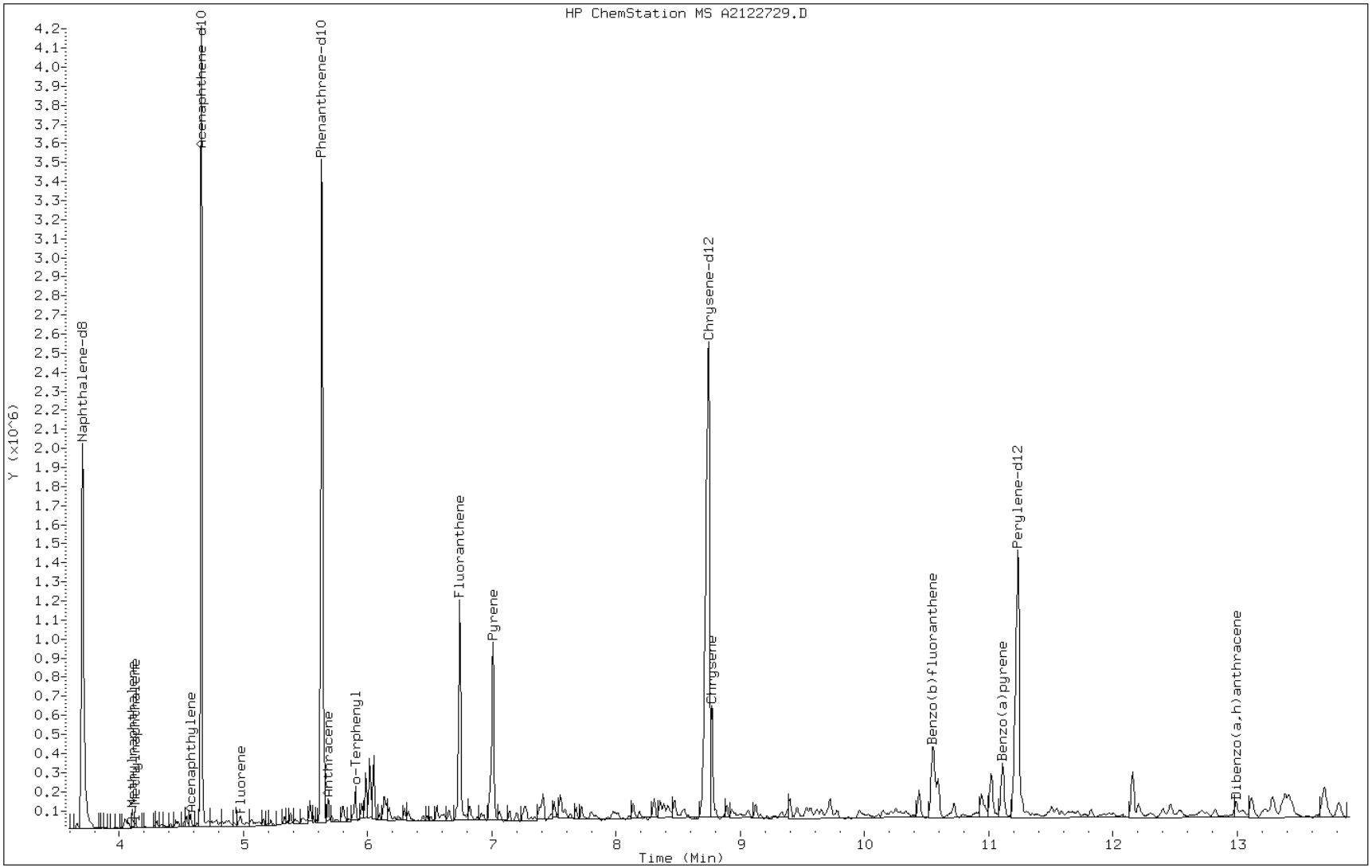
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW



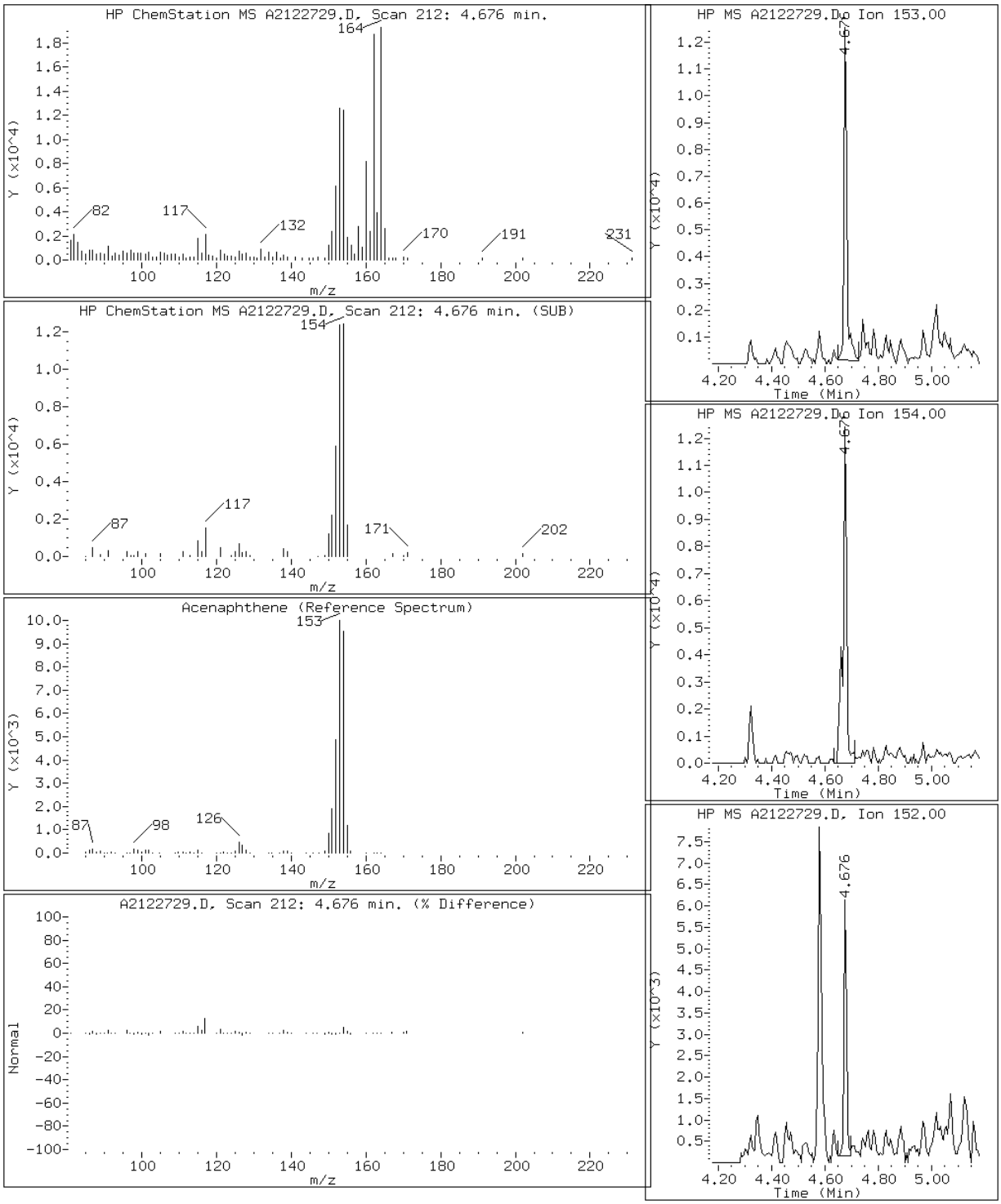
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

7 Acenaphthene



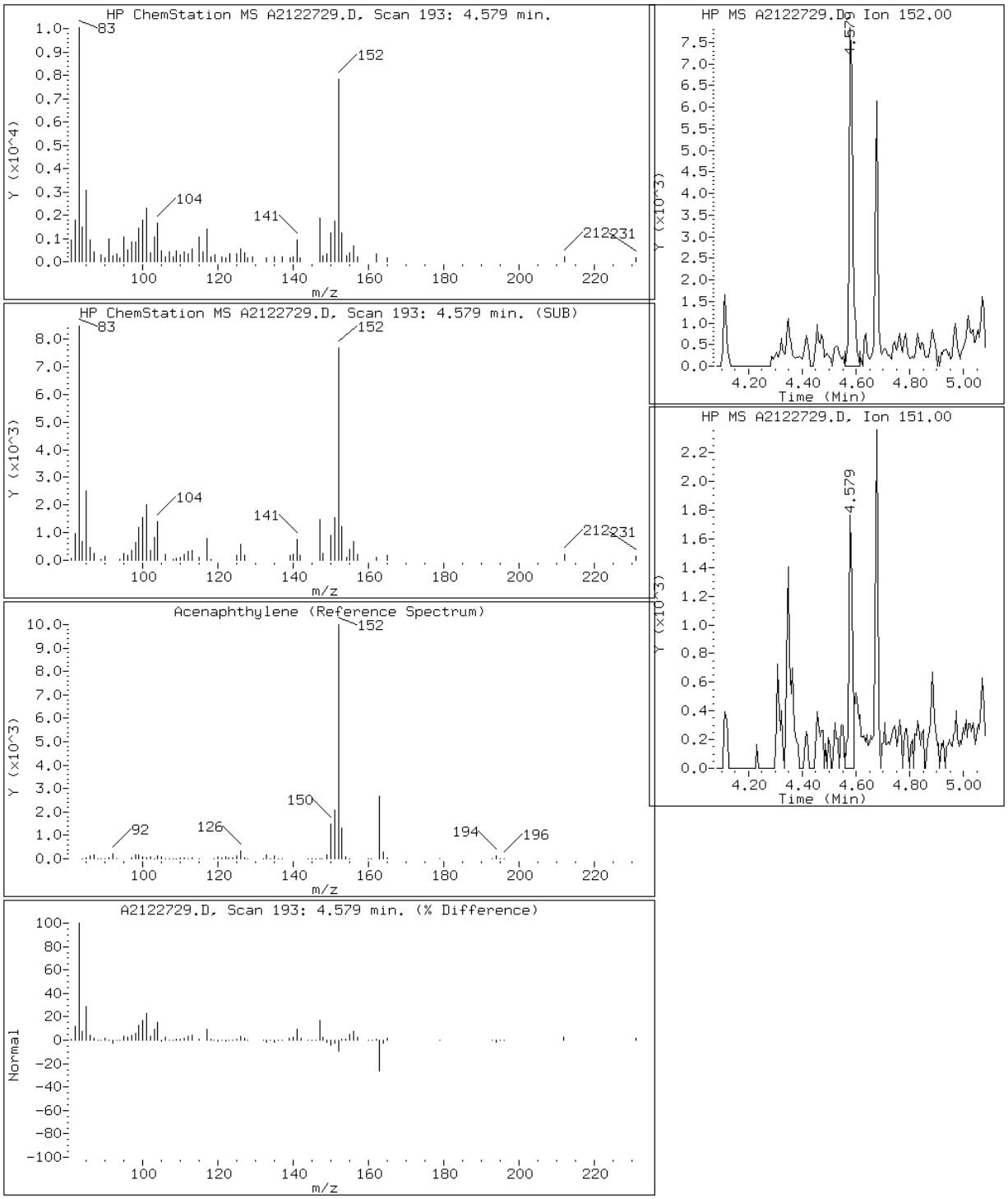
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

6 Acenaphthylene



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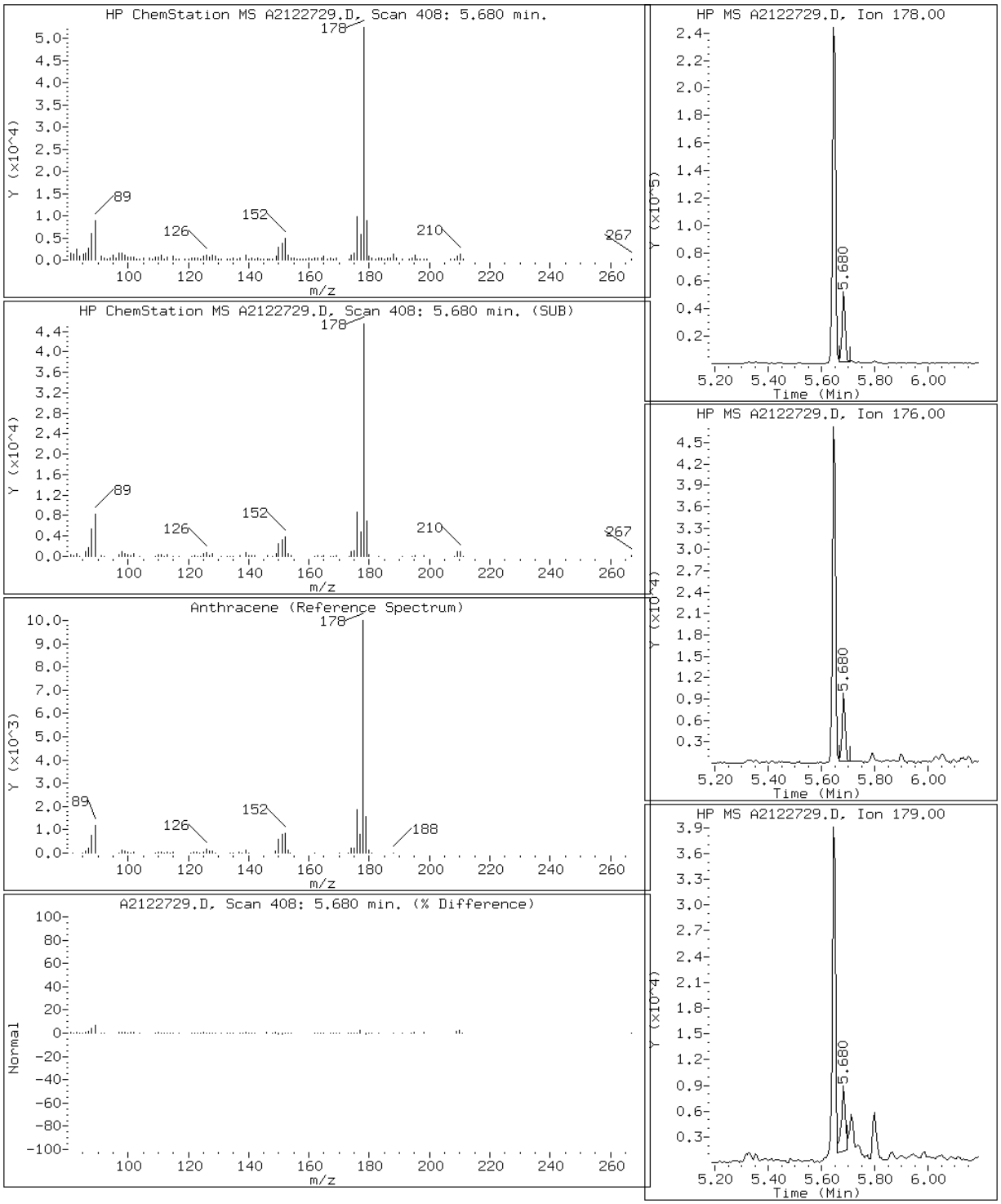
Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

11 Anthracene



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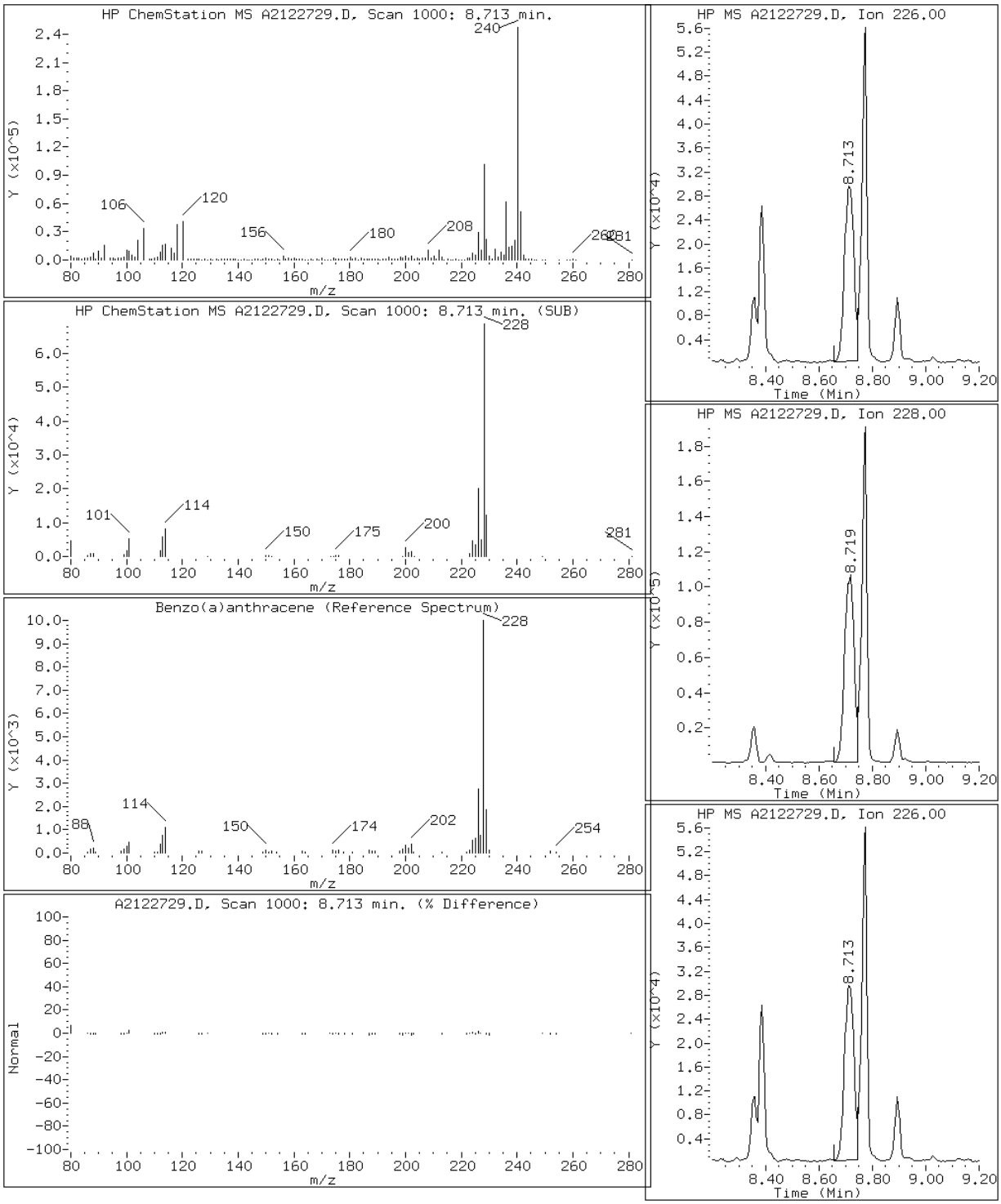
Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

16 Benzo(a)anthracene



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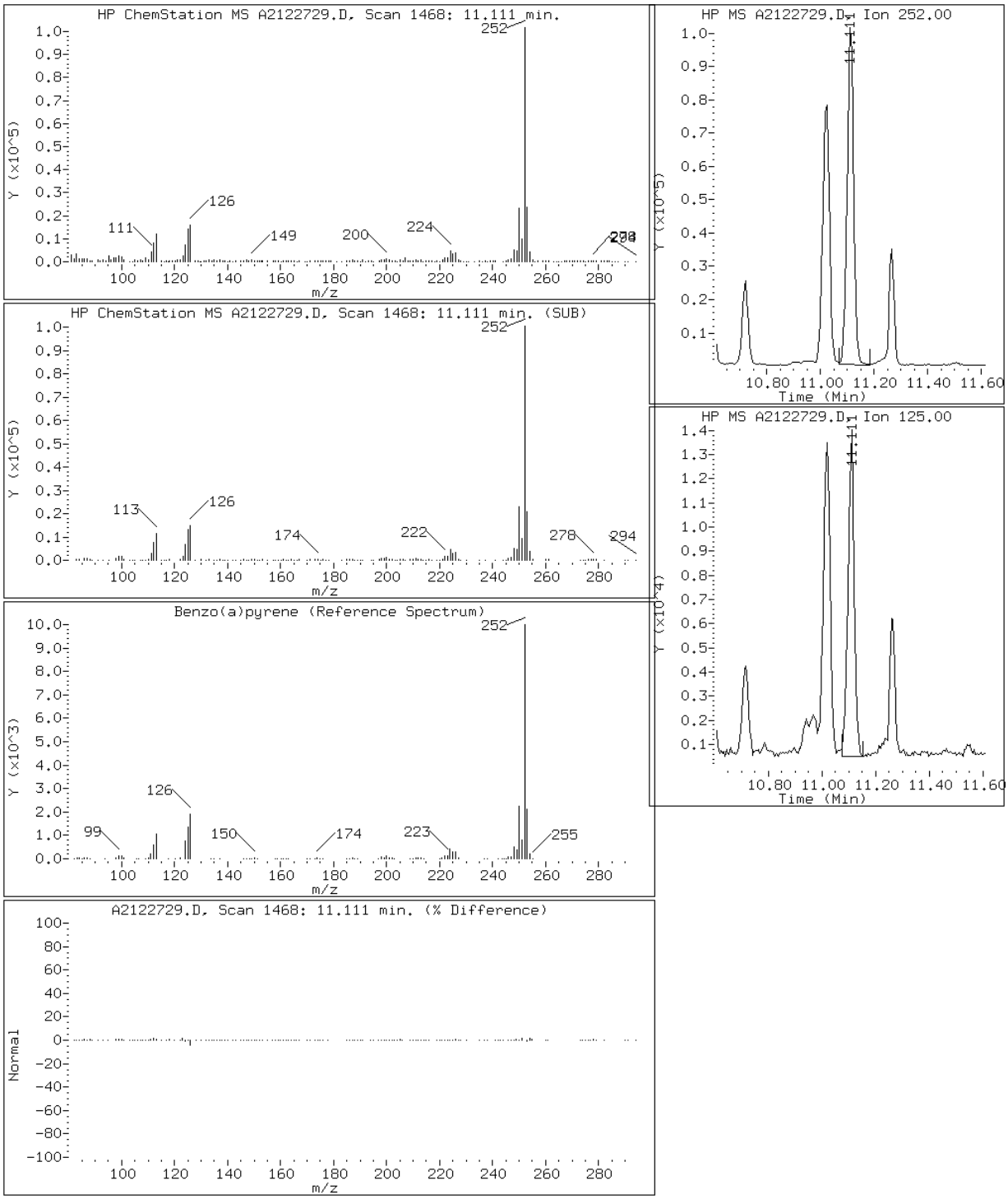
Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

21 Benzo(a)pyrene



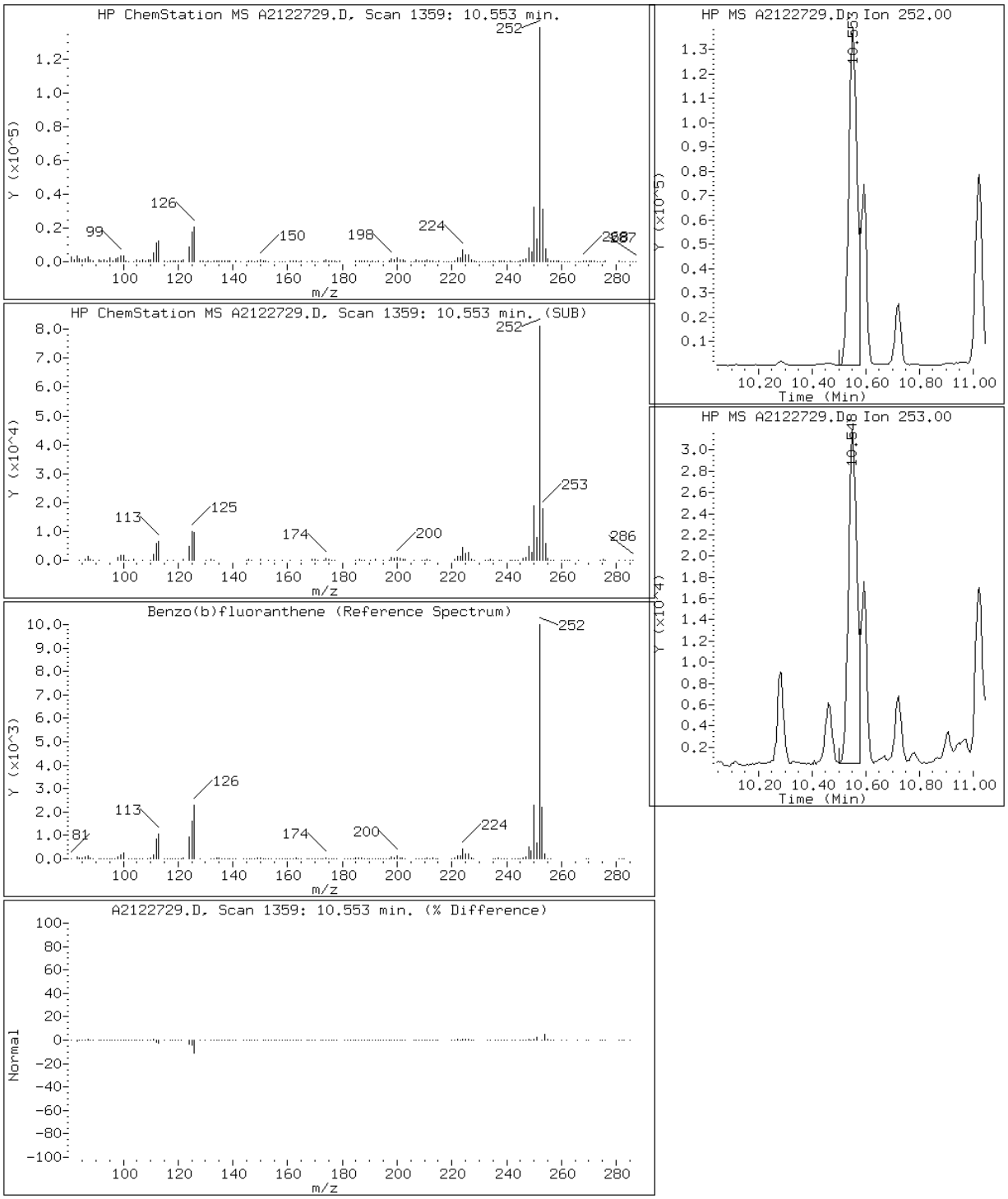
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

19 Benzo(b)fluoranthene



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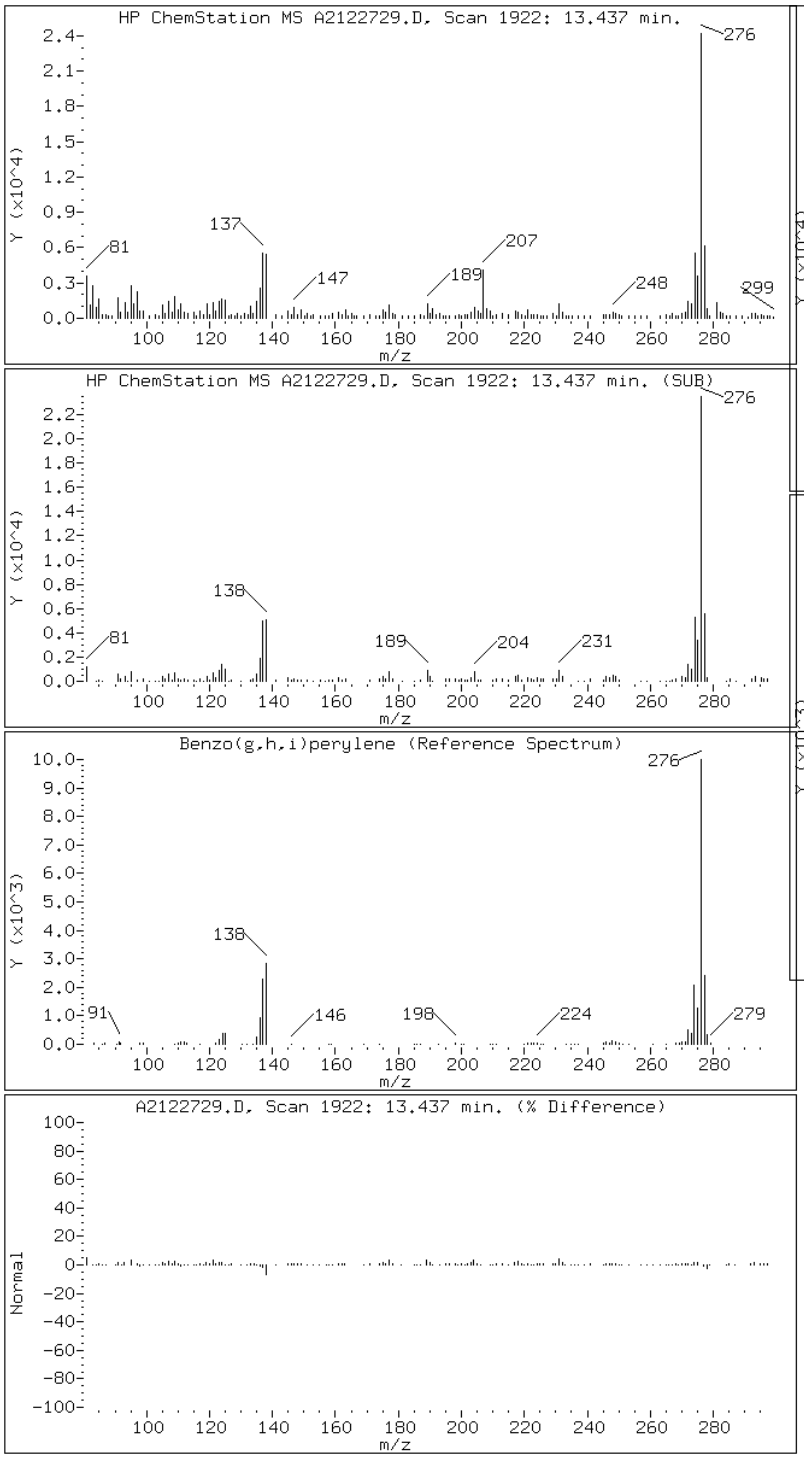
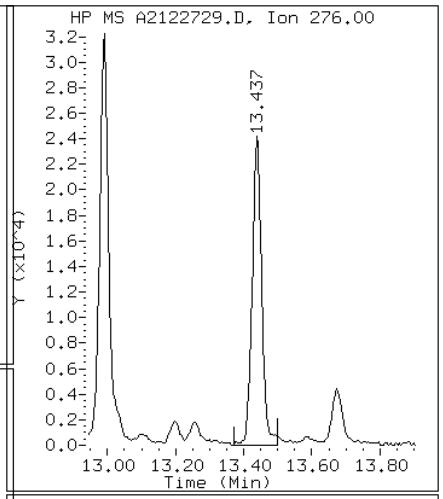
Date: 27-DEC-2012 19:21

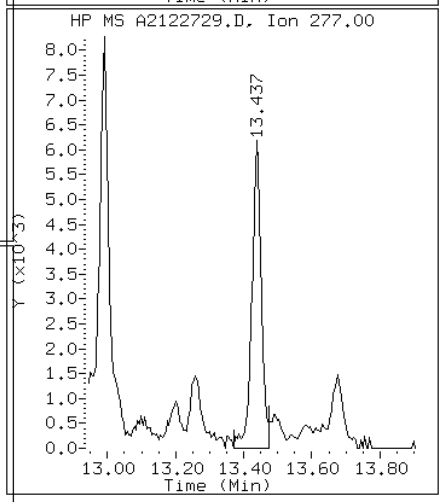
Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







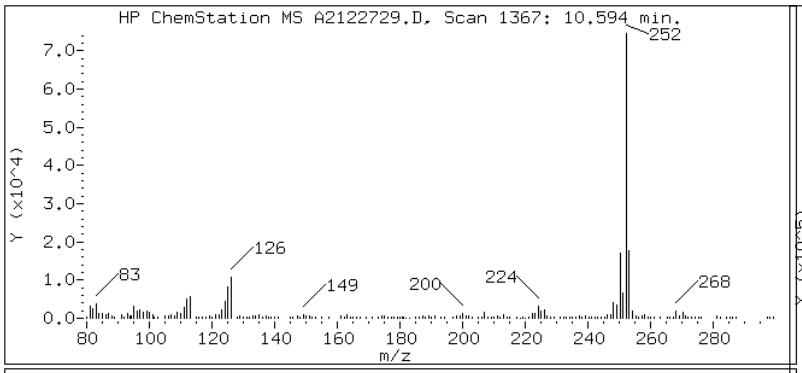
Data File: A2122729.D

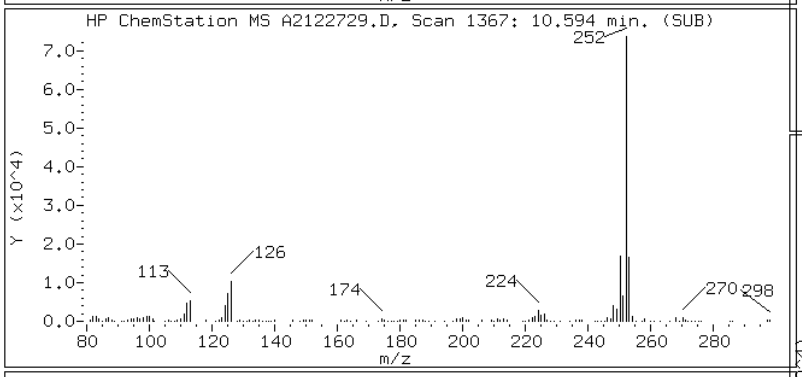
Date: 27-DEC-2012 19:21

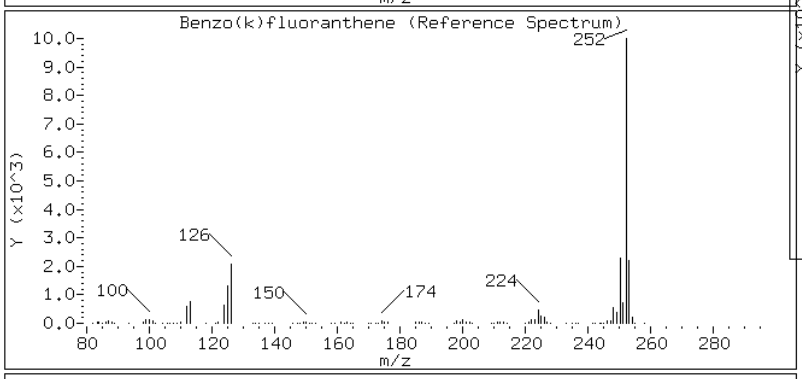
Client ID: CV0511V-CS Instrument: TSMA5973.i

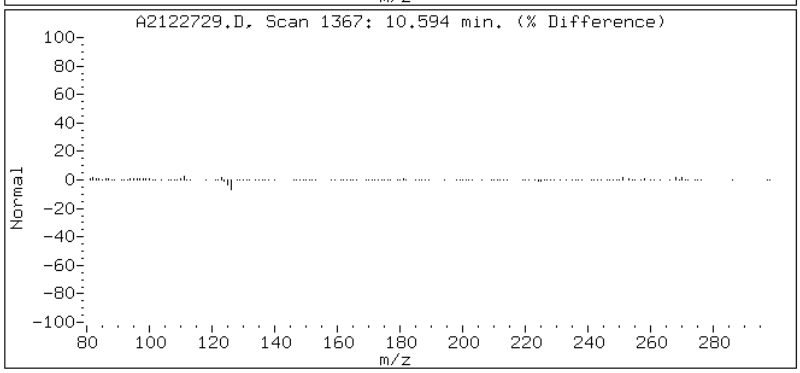
Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

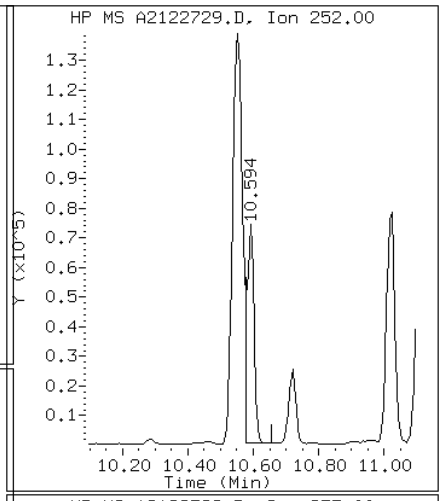
20 Benzo(k)fluoranthene

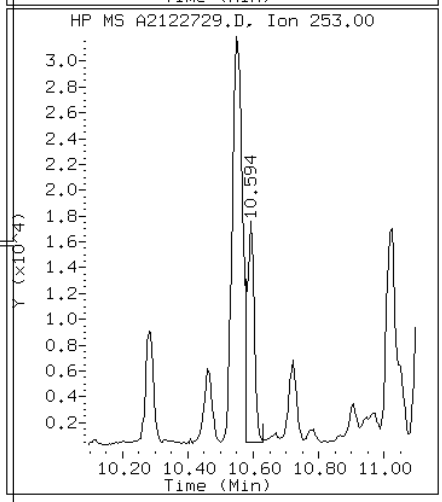












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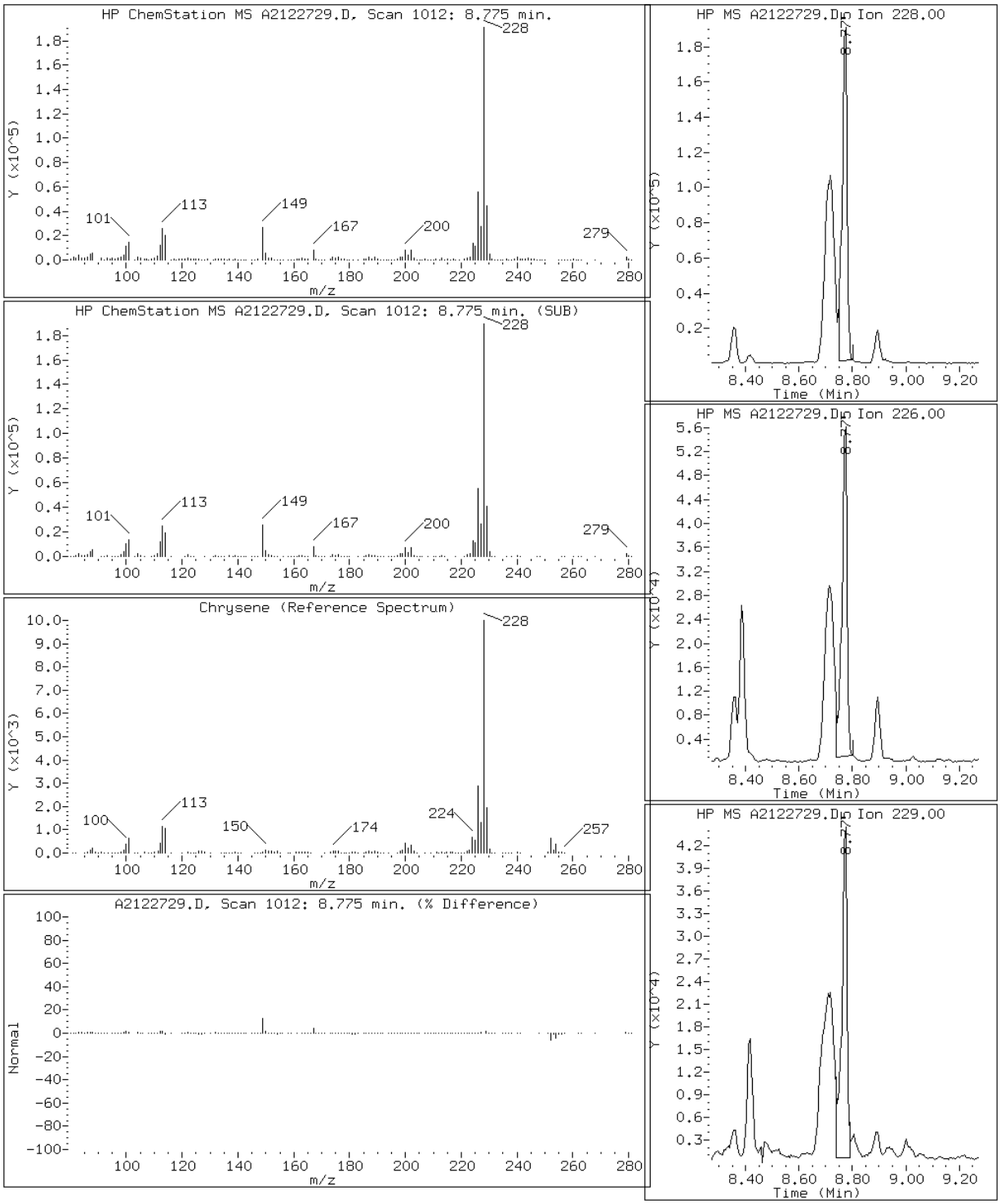
Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

17 Chrysene



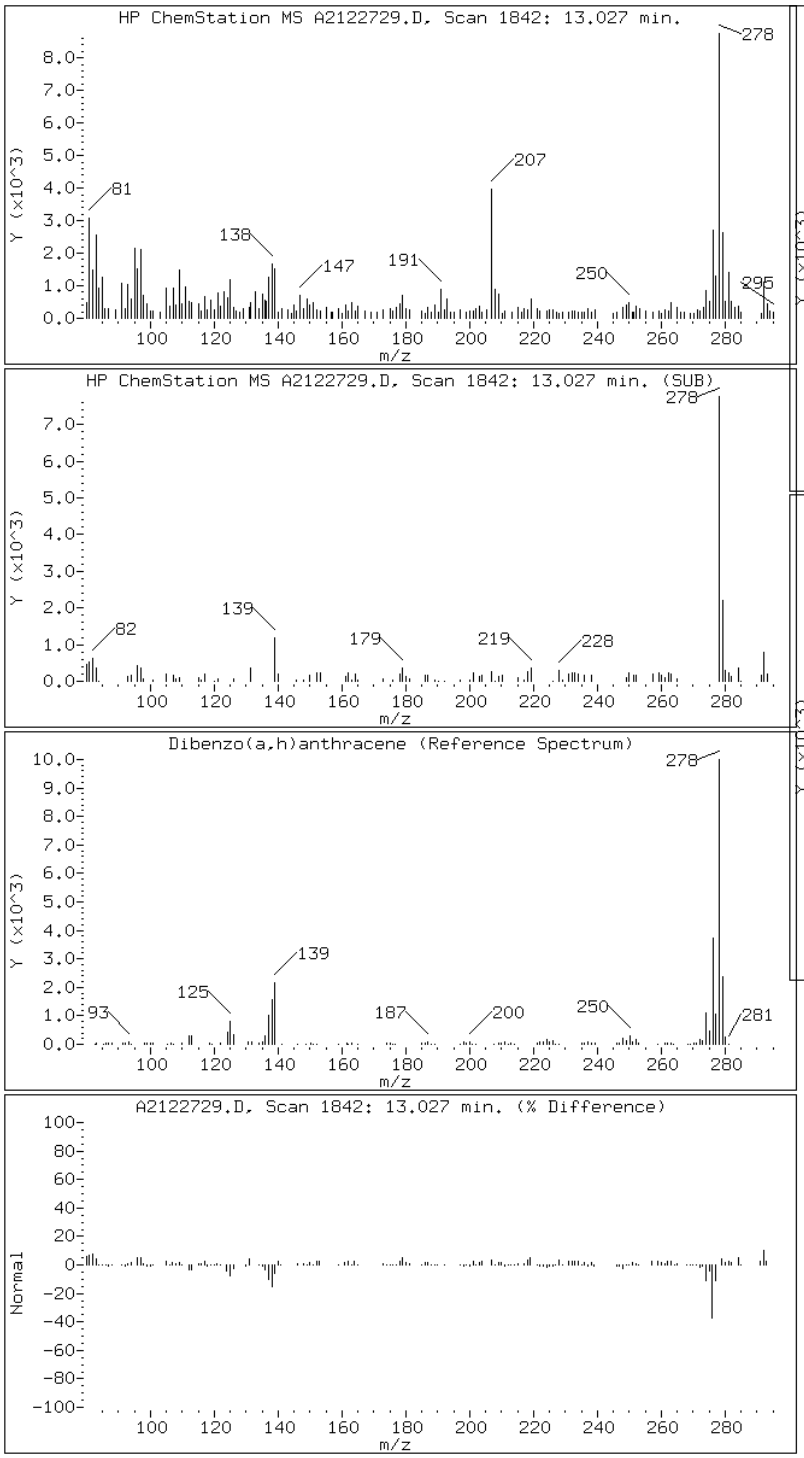
Data File: A2122729.D

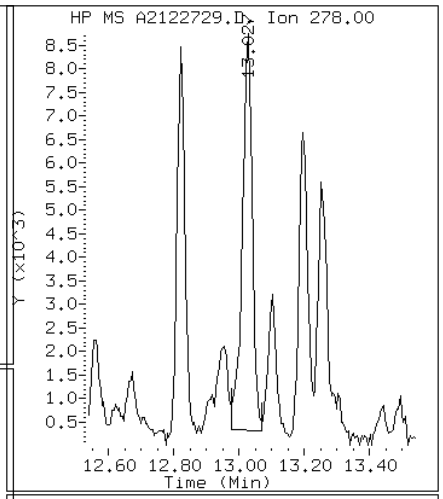
Date: 27-DEC-2012 19:21

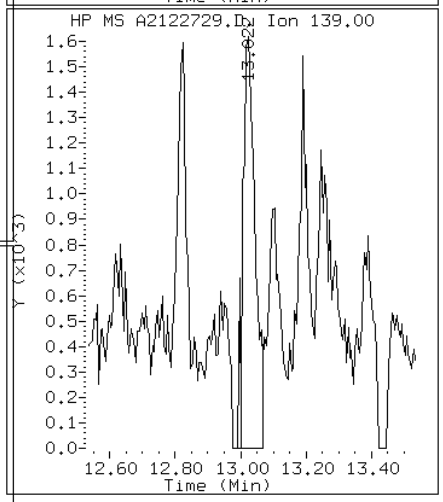
Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene







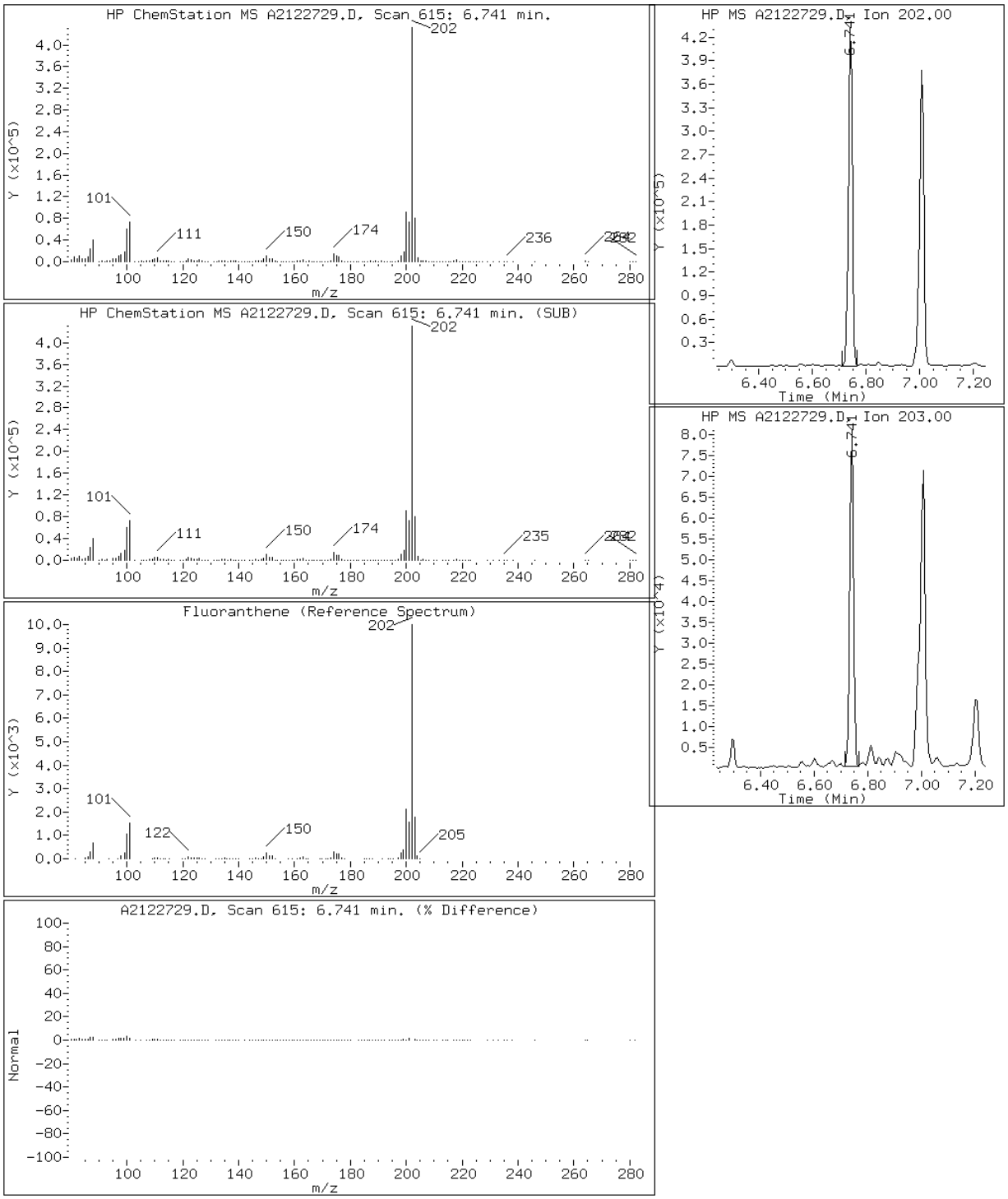
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

13 Fluoranthene



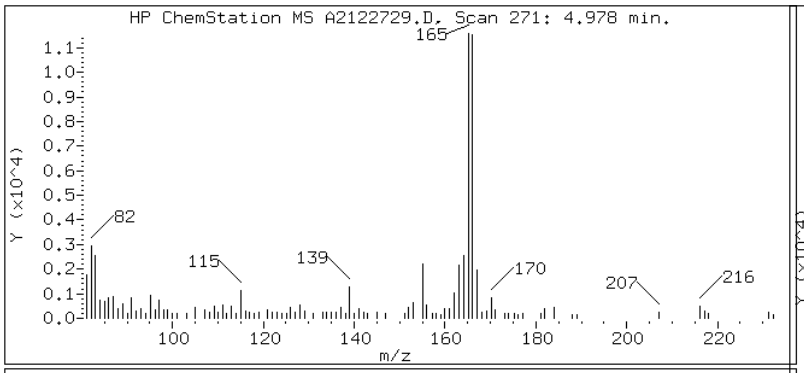
Data File: A2122729.D

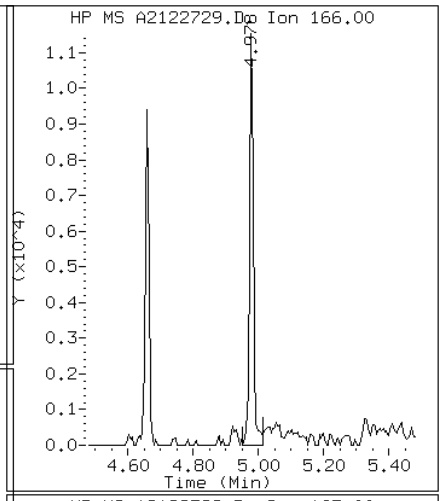
Date: 27-DEC-2012 19:21

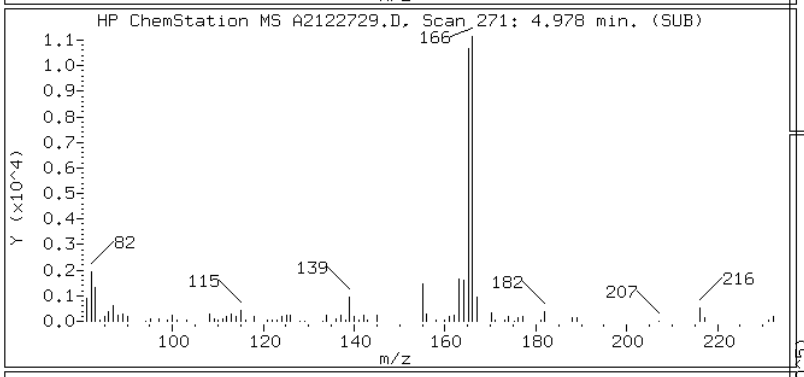
Client ID: CV0511V-CS Instrument: TSMA5973.i

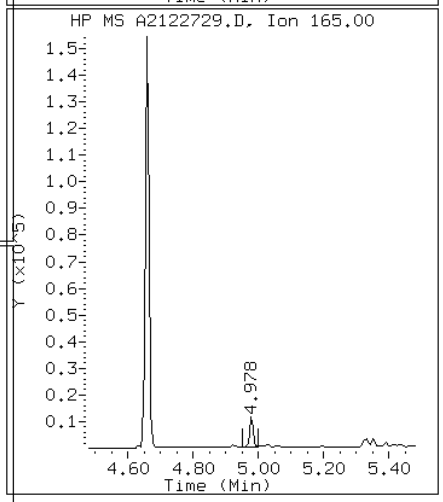
Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

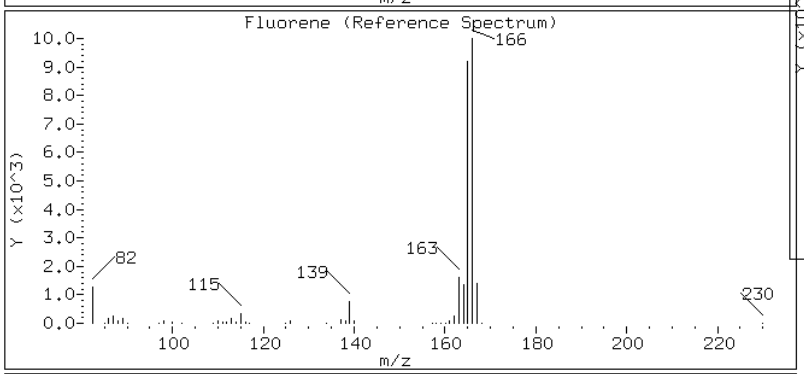
8 Fluorene

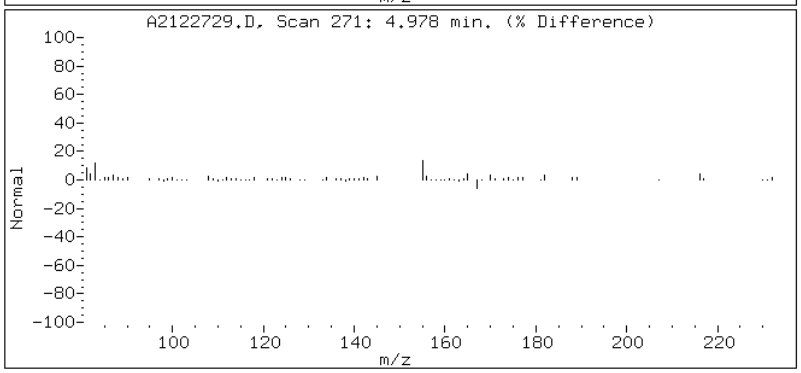












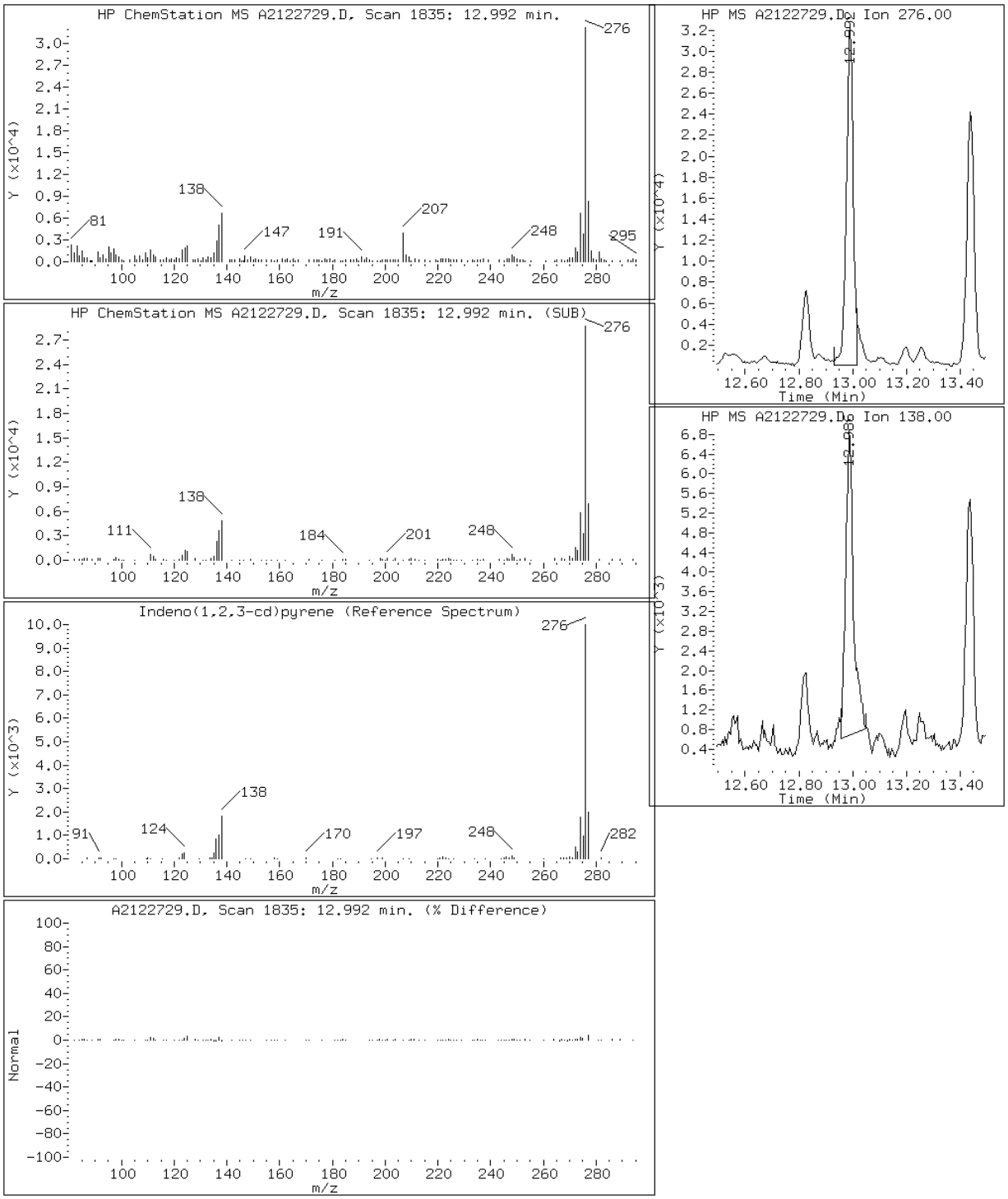
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

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



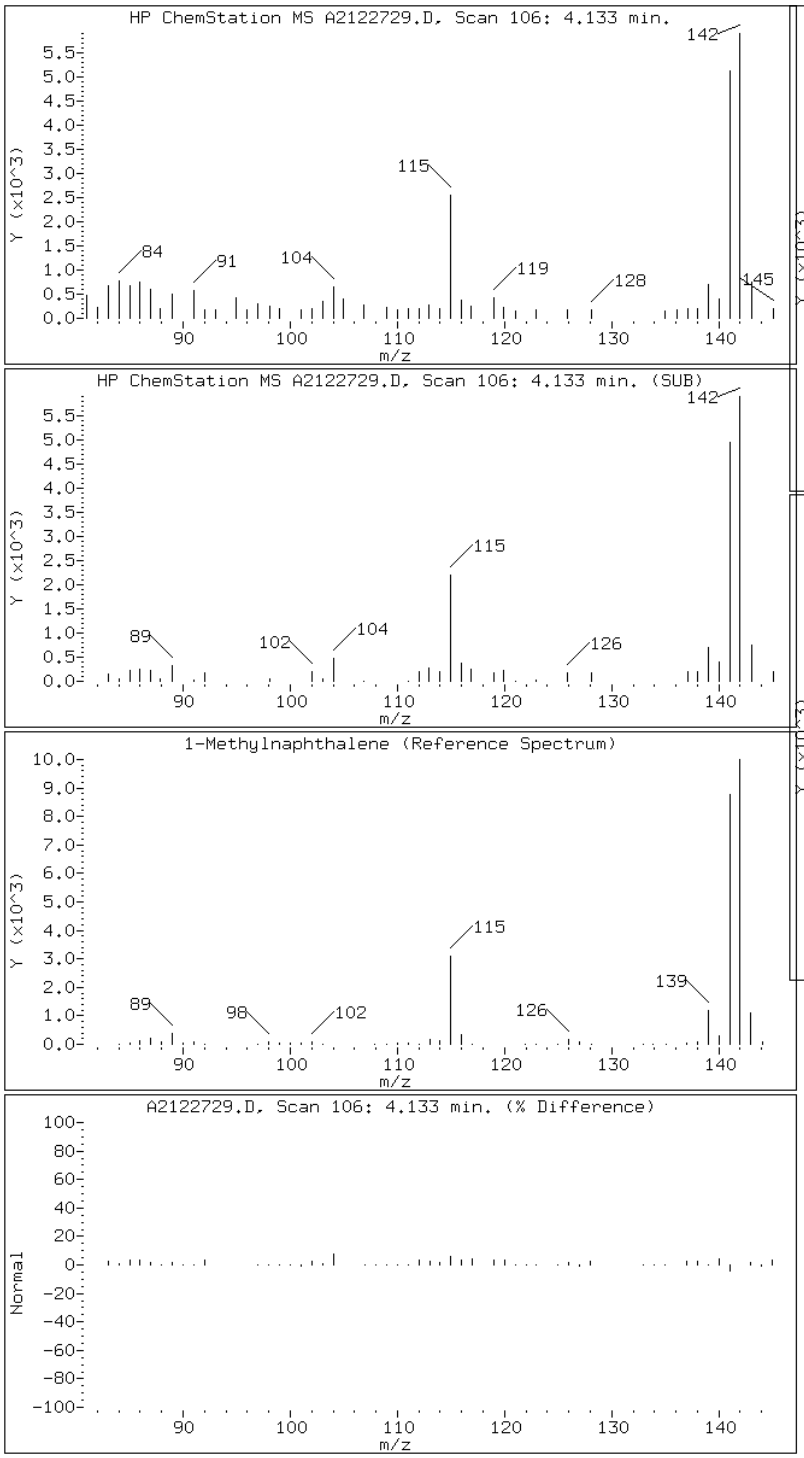
Data File: A2122729.D

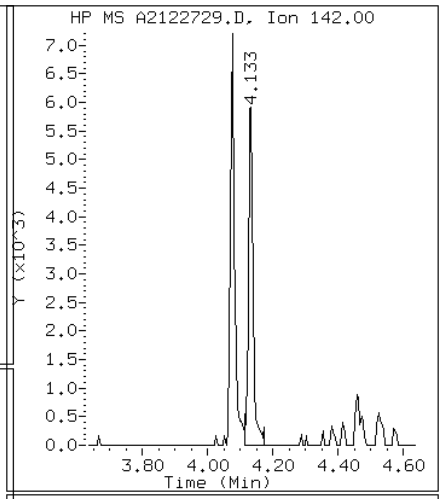
Date: 27-DEC-2012 19:21

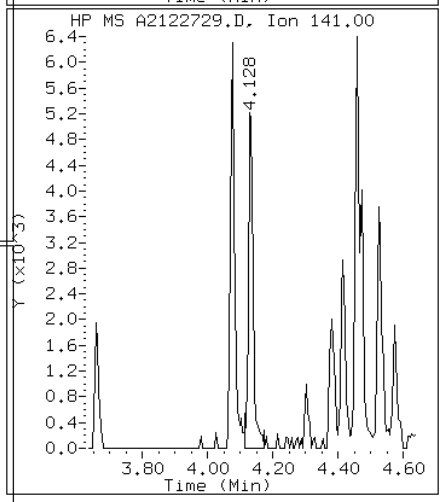
Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

4 1-Methylnaphthalene







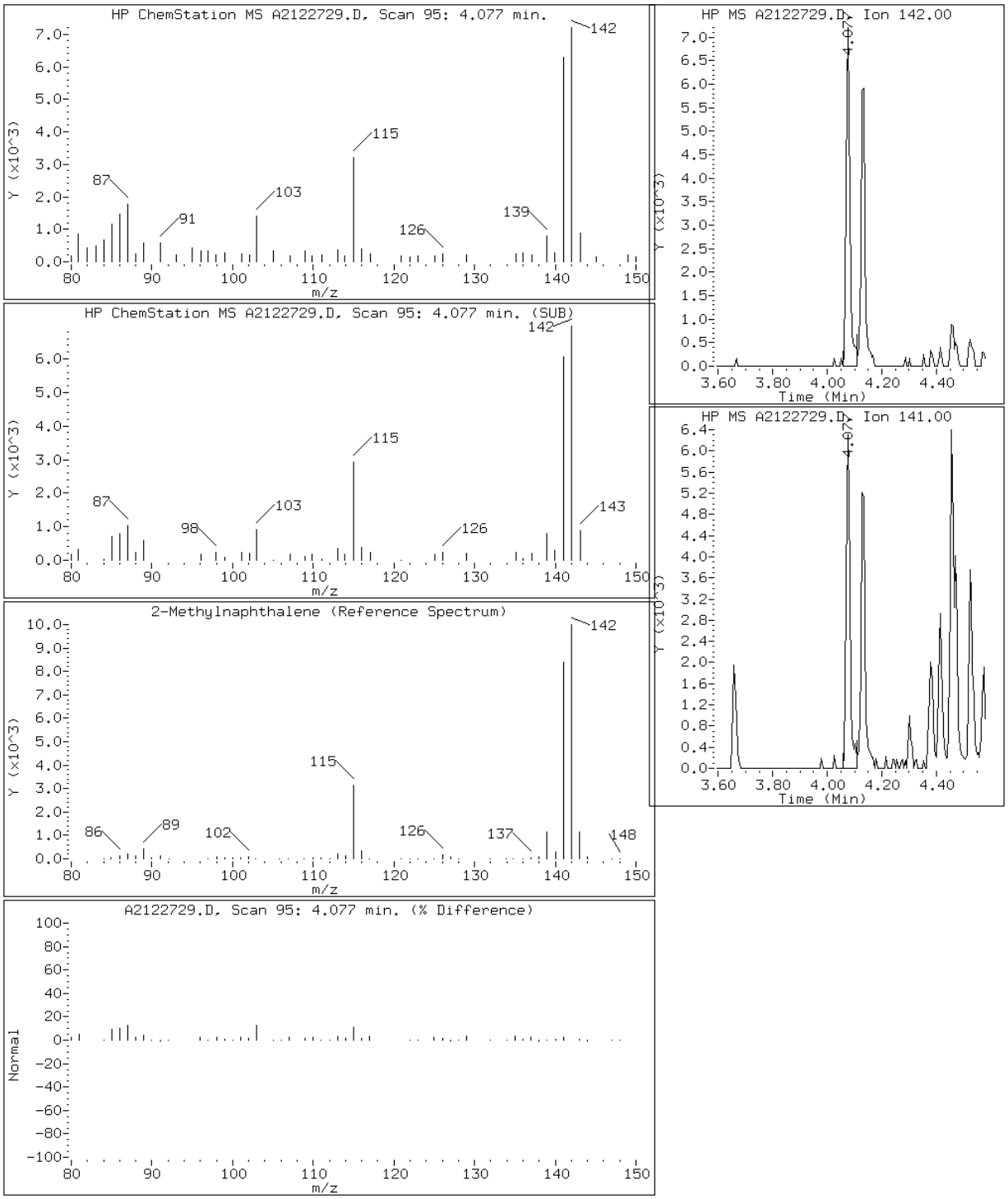
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

3 2-Methylnaphthalene



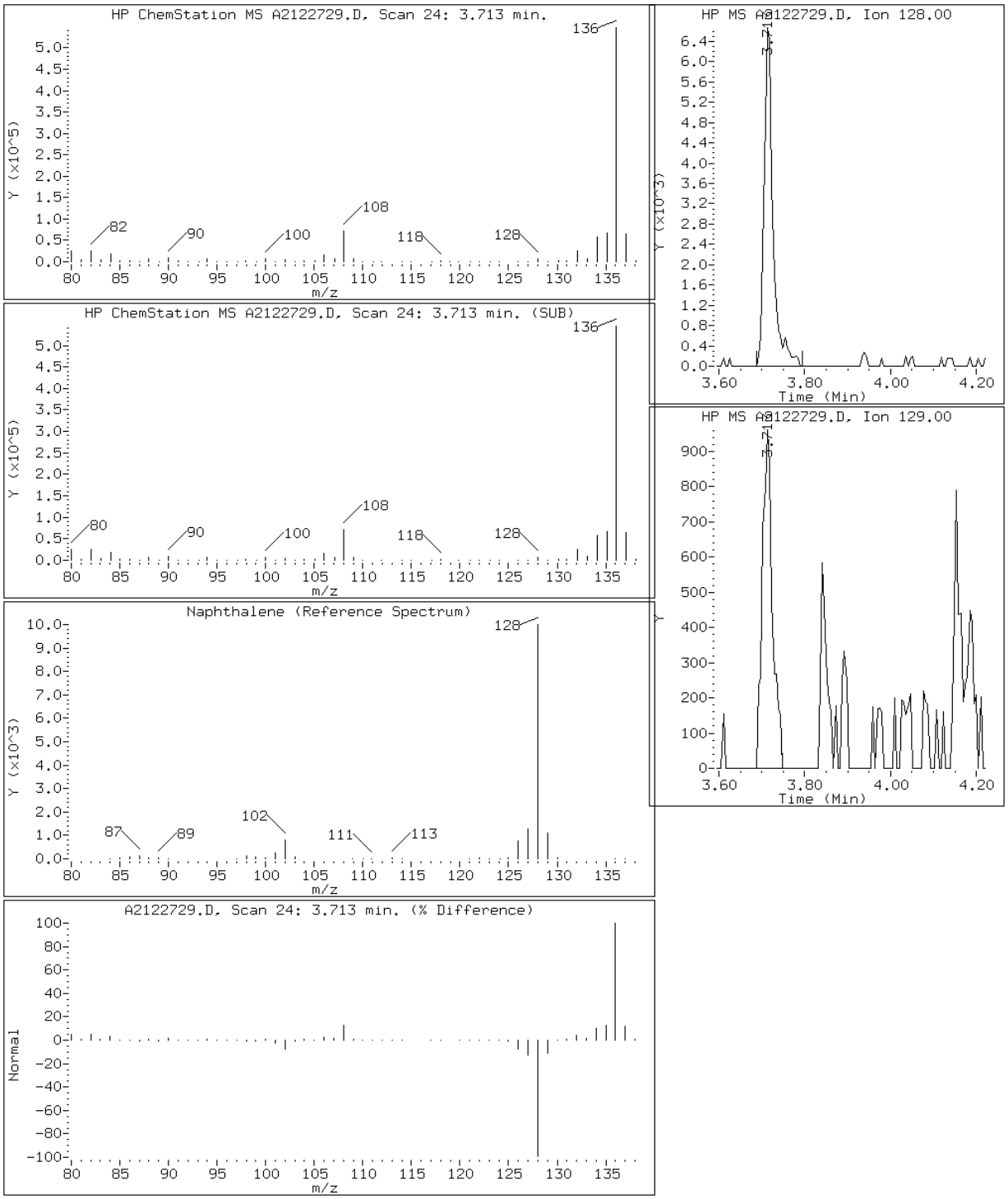
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

2 Naphthalene



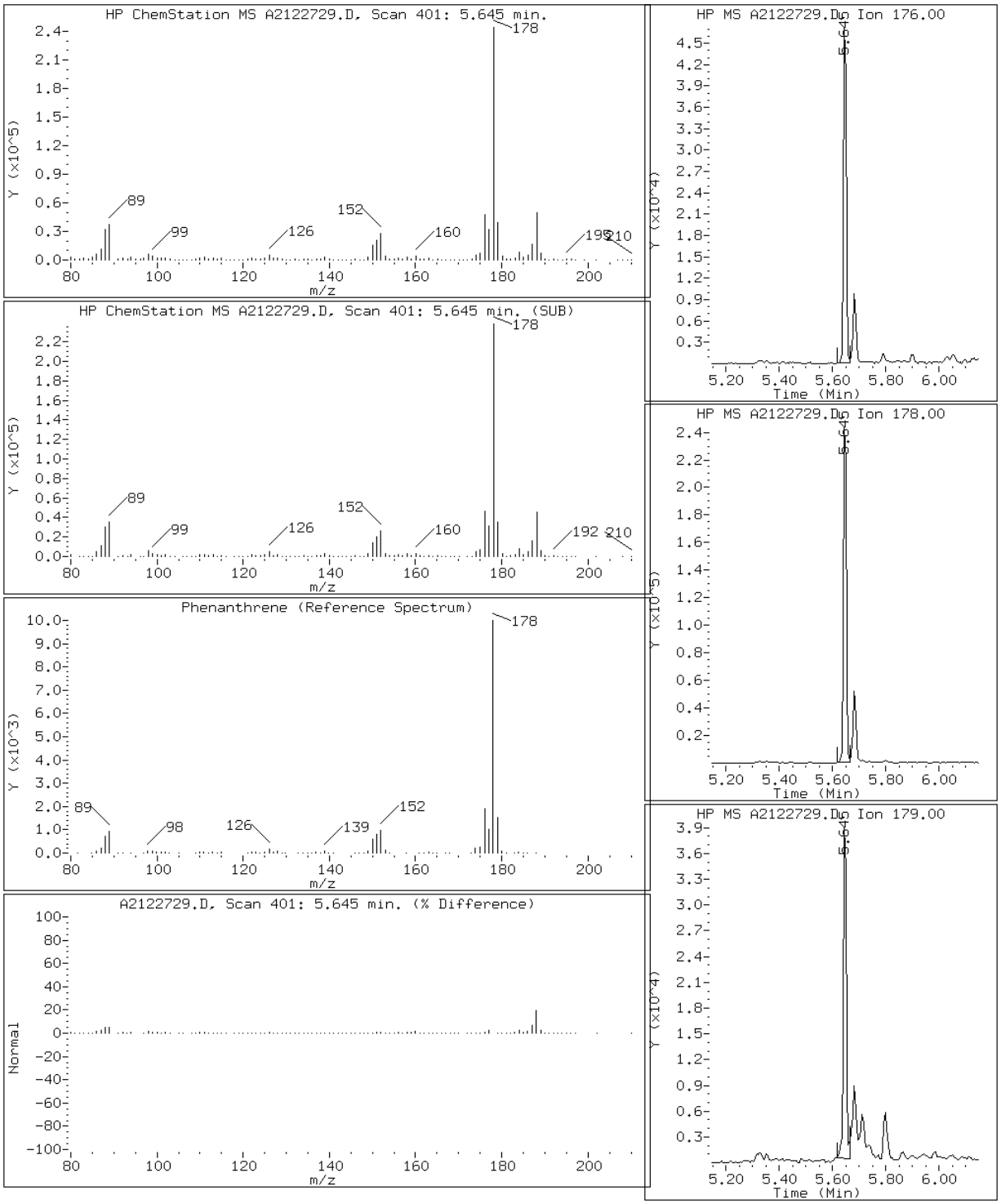
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

10 Phenanthrene



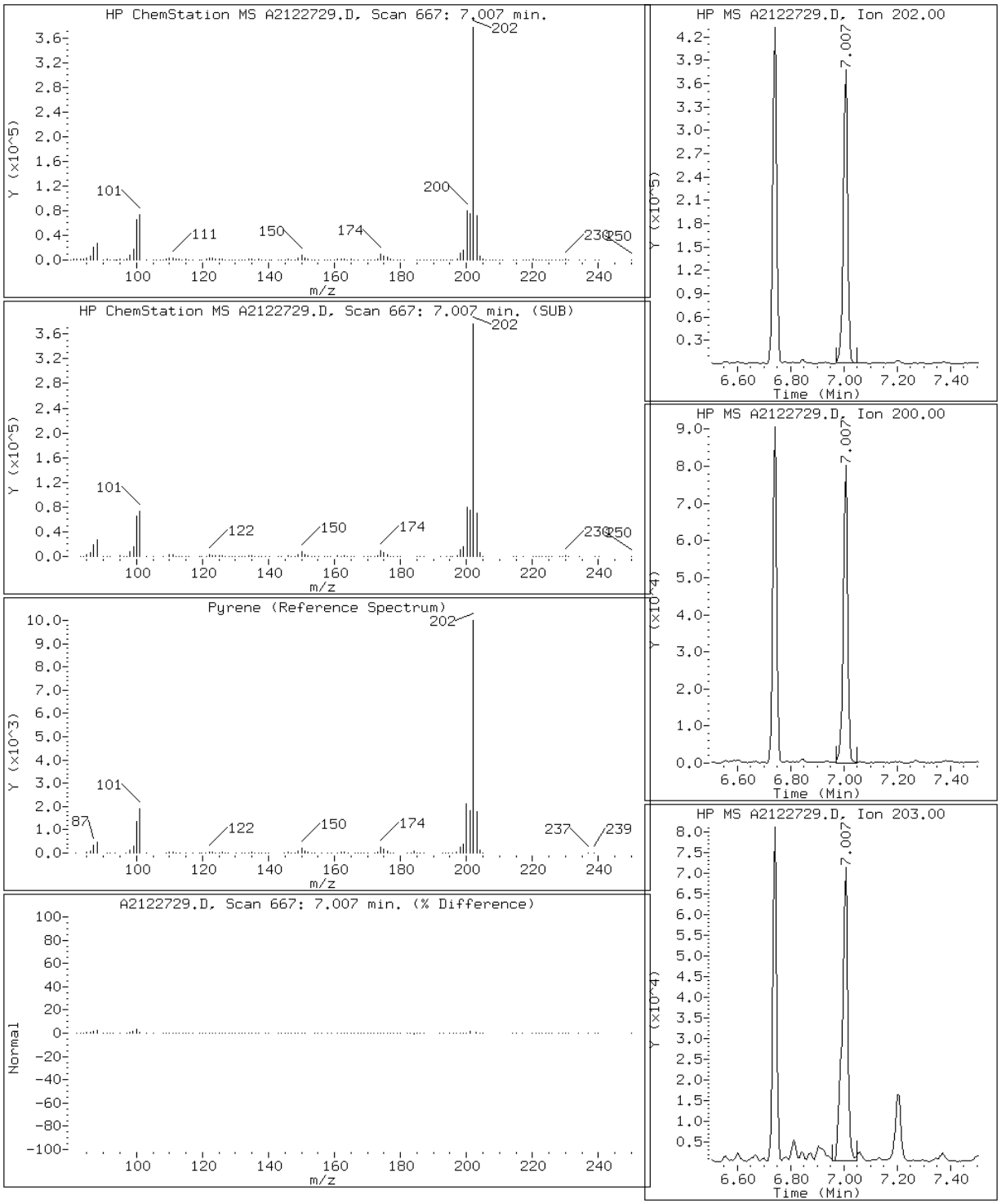
Data File: A2122729.D

Date: 27-DEC-2012 19:21

Client ID: CV0511V-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-55-A~98123~2~8270D/625 Operator: VW

15 Pyrene



Manual Integration Report

Data File: A2122729.D
Inj. Date and Time: 27-DEC-2012 19:21
Instrument ID: TSMA5973.i
Client ID: CV0511V-CS
Compound: 22 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/28/2012

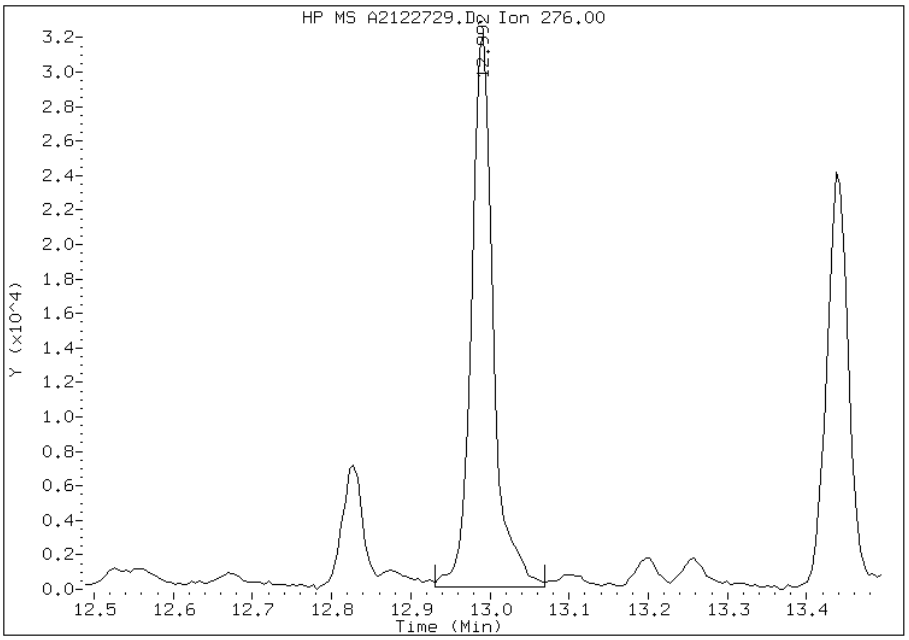
Processing Integration Results

RT: 12.99

Response: 62550

Amount: 2

Conc: 144



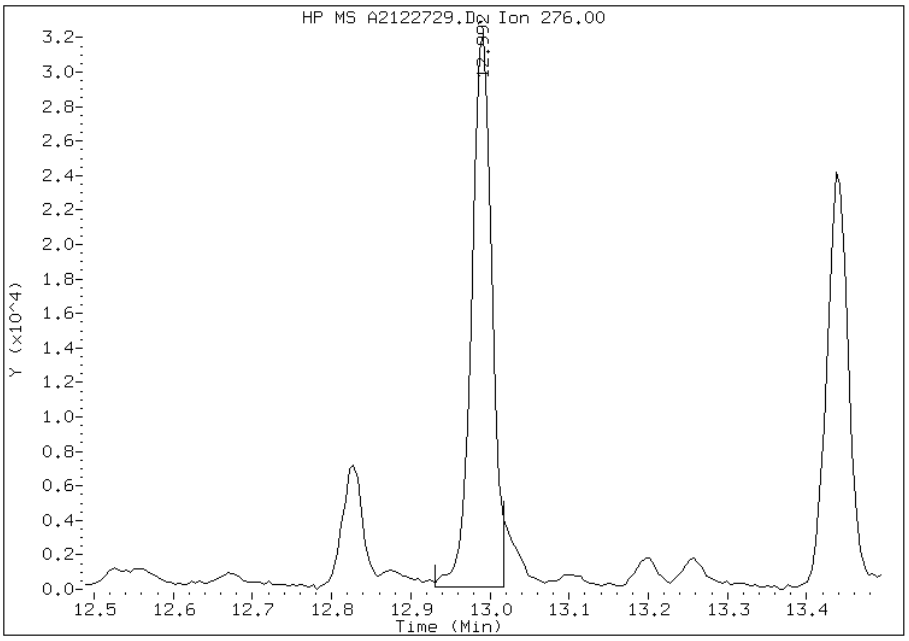
Manual Integration Results

RT: 12.99

Response: 58355

Amount: 2

Conc: 134



Manually Integrated By: mfrank
Modification Date: 28-Dec-2012 10:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511W-CS | Lab Sample ID: 680-85785-56

Matrix: Solid | Lab File ID: A2122730.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:45

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.43(g) | Date Analyzed: 12/27/2012 19:40

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

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

% Moisture: 34.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38		20	1.8
208-96-8	Acenaphthylene	14	J	20	1.6
120-12-7	Anthracene	100		20	2.0
56-55-3	Benzo[a]anthracene	490	B	20	1.9
50-32-8	Benzo[a]pyrene	590	B	20	2.1
205-99-2	Benzo[b]fluoranthene	1000	B	20	2.8
191-24-2	Benzo[g,h,i]perylene	150	B	20	3.3
207-08-9	Benzo[k]fluoranthene	330	B	20	1.9
218-01-9	Chrysene	500	B	20	2.3
53-70-3	Dibenz(a,h)anthracene	61	B	20	2.0
206-44-0	Fluoranthene	810	B	20	1.8
86-73-7	Fluorene	34		20	1.6
193-39-5	Indeno[1,2,3-cd]pyrene	200	B	20	3.3
90-12-0	1-Methylnaphthalene	27		20	1.6
91-57-6	2-Methylnaphthalene	30		20	1.6
91-20-3	Naphthalene	27		20	1.6
85-01-8	Phenanthrene	400		20	1.3
129-00-0	Pyrene	740	B	20	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	71		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\1A121227.b\A2122730.D
Lab Smp Id: 680-85785-A-56-A Client Smp ID: CV0511W-CS
Inj Date : 27-DEC-2012 19:40
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-56-A~98123~2~8270D/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: 25
Dil Factor: 2.00000
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	2.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.430	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	3.703	3.705	(1.000)	1661047	40.0000		
2 Naphthalene	128	3.718	3.720	(1.004)	12444	0.26598	17	
3 2-Methylnaphthalene	142	4.077	4.079	(1.101)	8811	0.29800	20	
4 1-Methylnaphthalene	142	4.128	4.135	(1.115)	8088	0.26433	17	
* 5 Acenaphthene-d10	164	4.661	4.663	(1.000)	877319	40.0000		
6 Acenaphthylene	152	4.579	4.581	(0.982)	6764	0.14386	9.4(a)	
7 Acenaphthene	153	4.677	4.678	(1.003)	10871	0.37576	25	
8 Fluorene	166	4.979	4.980	(1.068)	11241	0.34051	22	
* 9 Phenanthrene-d10	188	5.630	5.631	(1.000)	1375527	40.0000		
10 Phenanthrene	176	5.645	5.646	(1.003)	35427	3.96491	260	
11 Anthracene	178	5.681	5.687	(1.009)	47311	1.00661	66	
$ 12 o-Terphenyl	230	5.901	5.903	(1.048)	41295	1.42054	93	
13 Fluoranthene	202	6.741	6.743	(1.197)	440553	8.06761	530	
* 14 Chrysene-d12	240	8.745	8.736	(1.000)	1660153	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	7.008	7.004	(0.801)	414949	7.33360	480	
16 Benzo(a)anthracene	226	8.719	8.700	(0.997)	72784	4.82416	320	
17 Chrysene	228	8.775	8.772	(1.004)	256105	4.97751	330	
* 18 Perylene-d12	264	11.240	11.241	(1.000)	1024129	40.0000		
19 Benzo(b)fluoranthene	252	10.553	10.544	(0.939)	314235	9.94957	650	
20 Benzo(k)fluoranthene	252	10.594	10.596	(0.943)	107153	3.32196	220	
21 Benzo(a)pyrene	252	11.117	11.113	(0.989)	167312	5.86306	380	
22 Indeno(1,2,3-cd)pyrene	276	12.992	12.993	(1.156)	57098	1.98539	130	
23 Dibenzo(a,h)anthracene	278	13.033	13.039	(1.160)	17667	0.60636	40	
24 Benzo(g,h,i)perylene	276	13.443	13.444	(1.196)	43745	1.53538	100	

QC Flag Legend

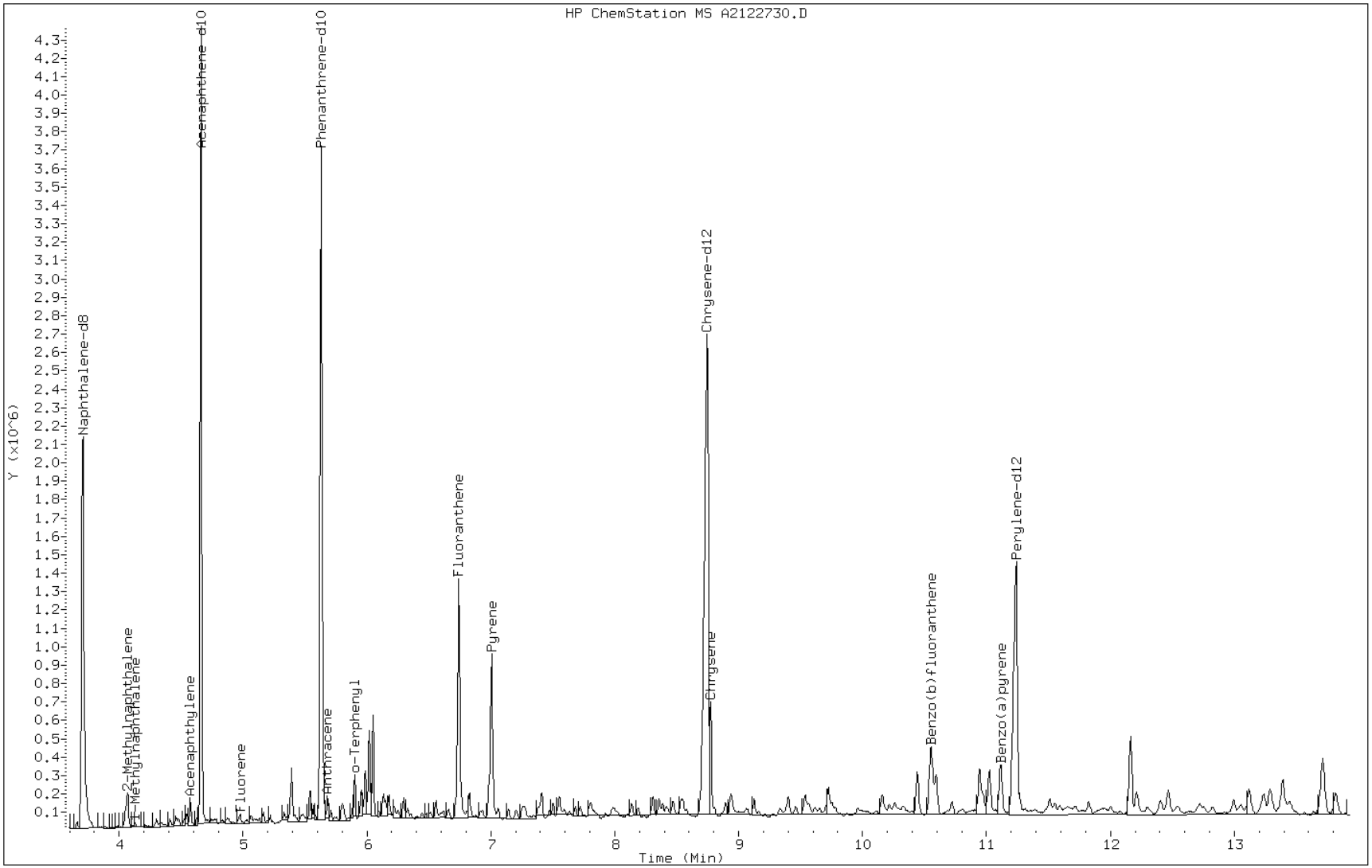
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW



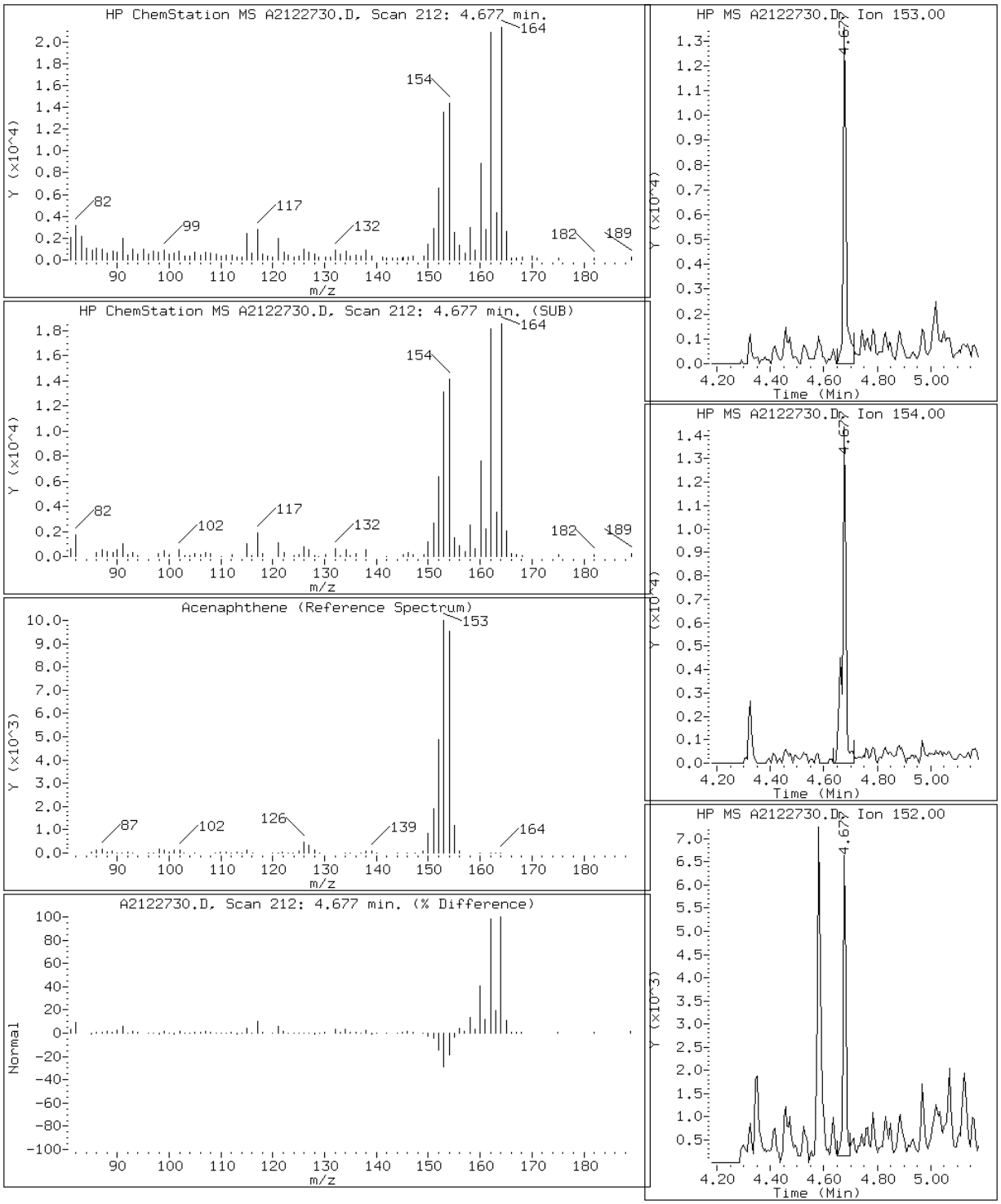
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

7 Acenaphthene



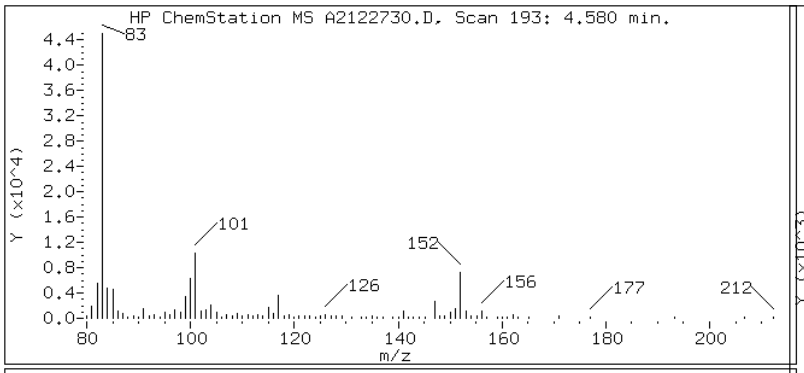
Data File: A2122730.D

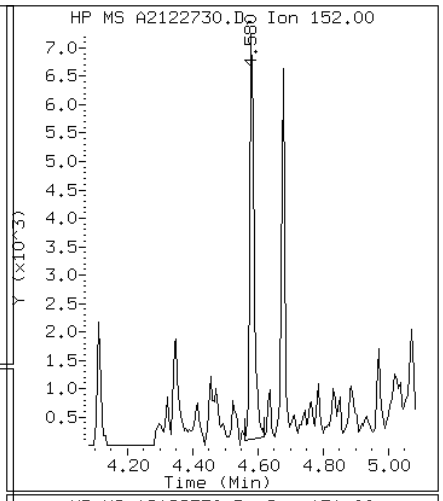
Date: 27-DEC-2012 19:40

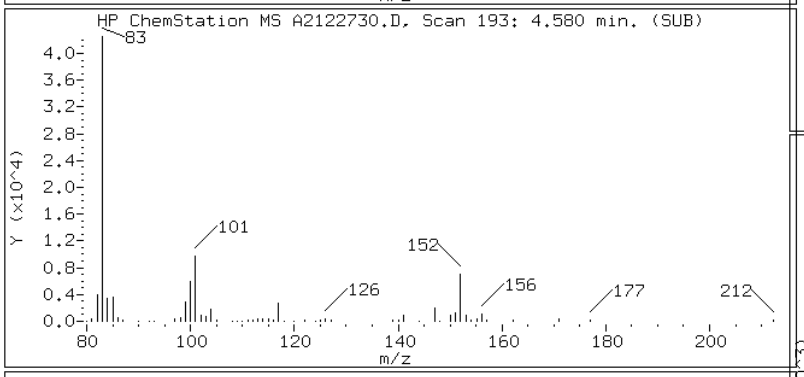
Client ID: CV0511W-CS Instrument: TSMA5973.i

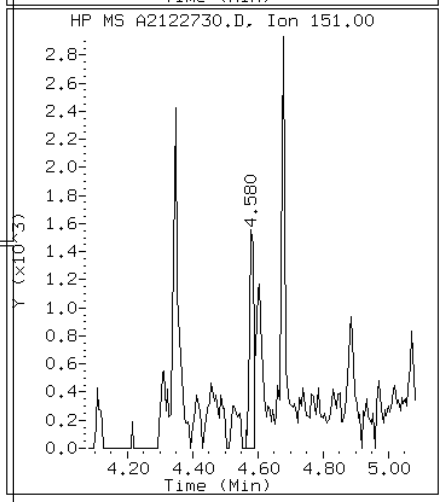
Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

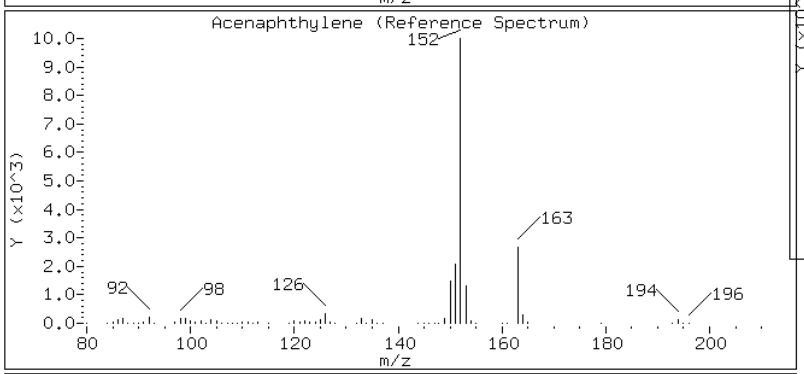
6 Acenaphthylene

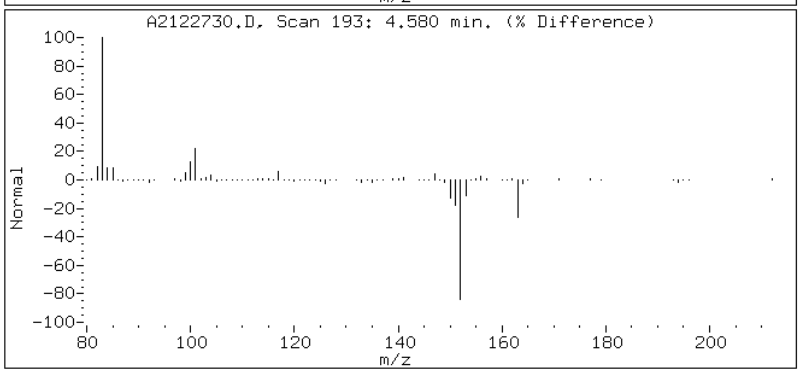












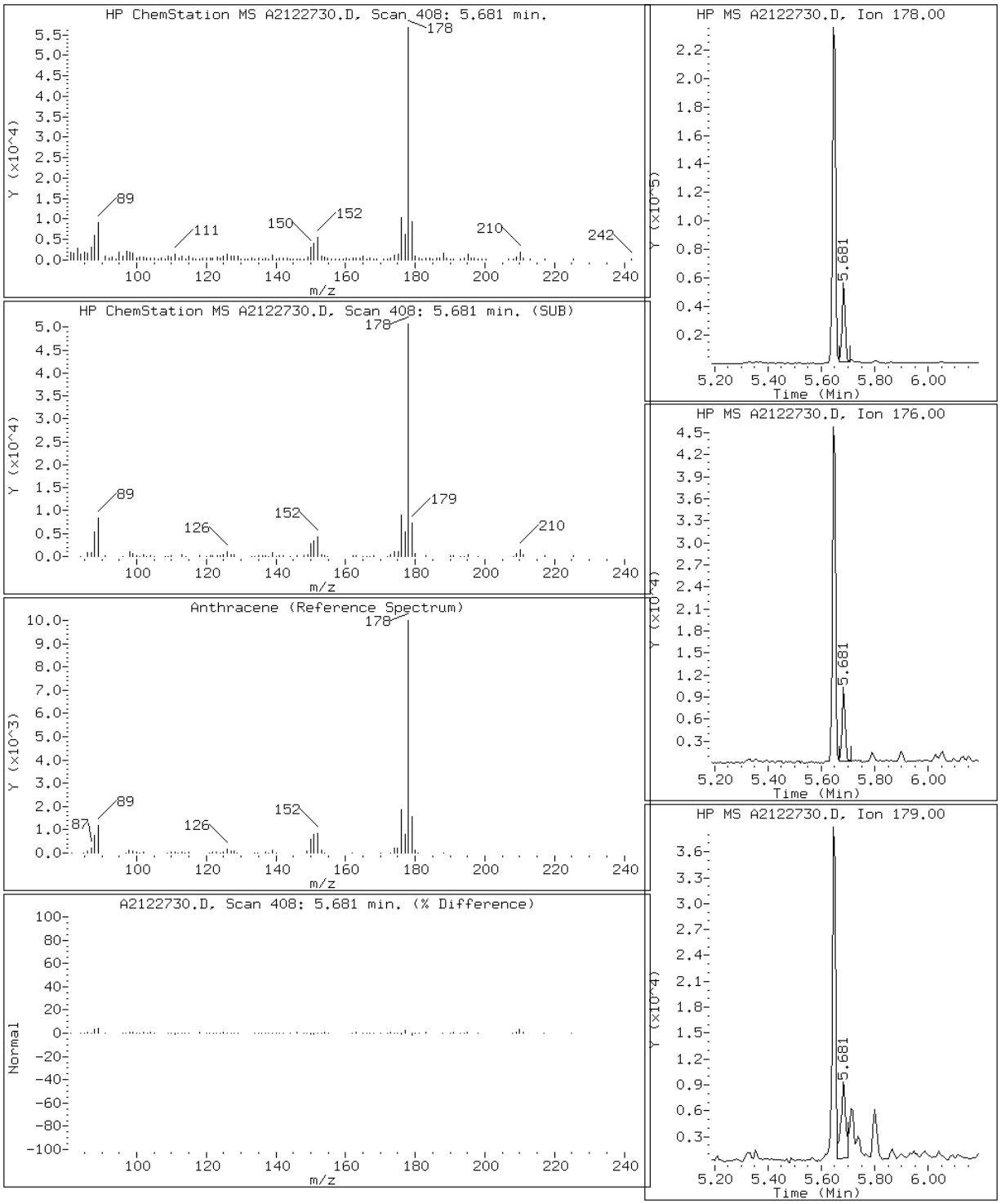
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

11 Anthracene



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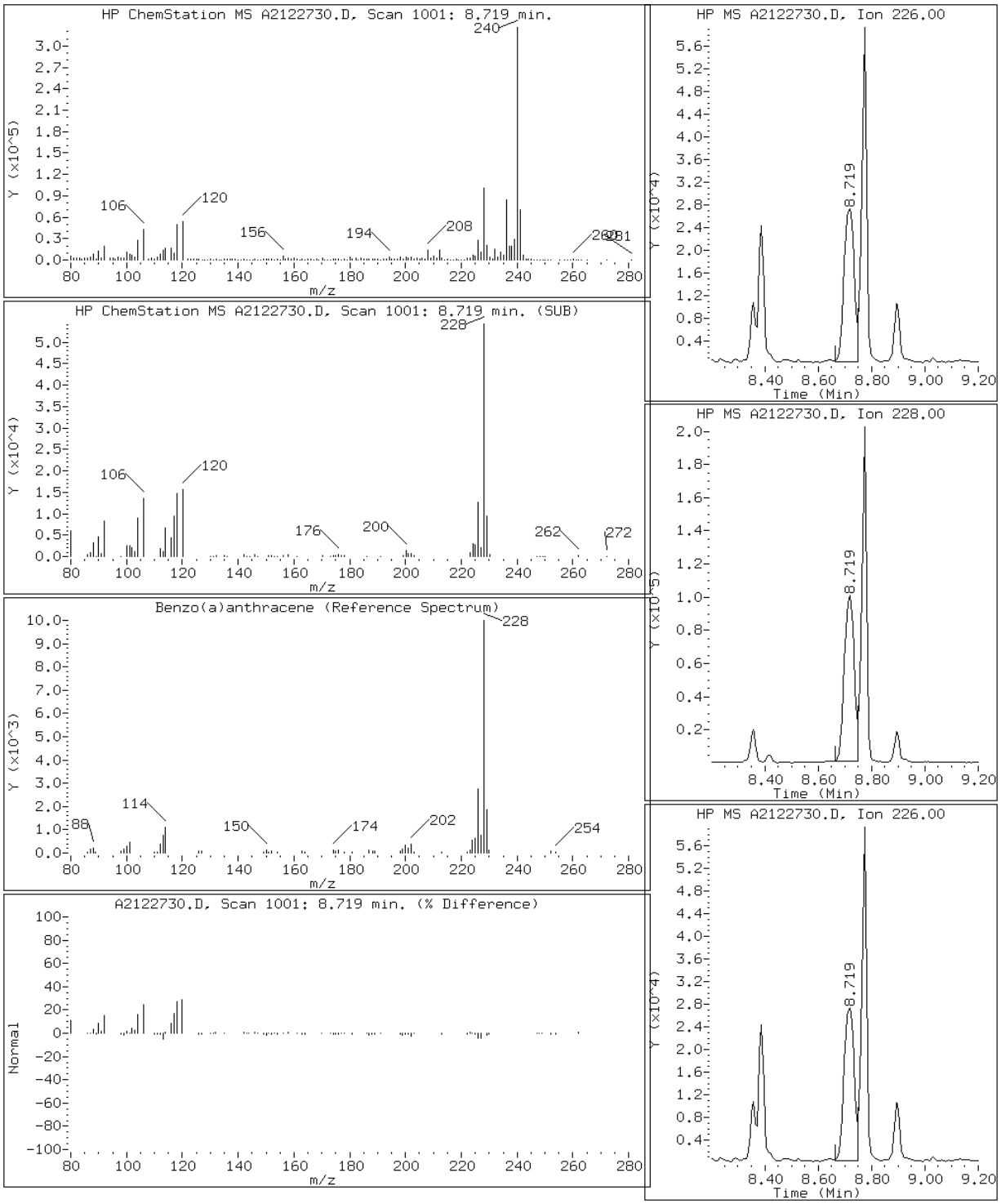
Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

16 Benzo(a)anthracene



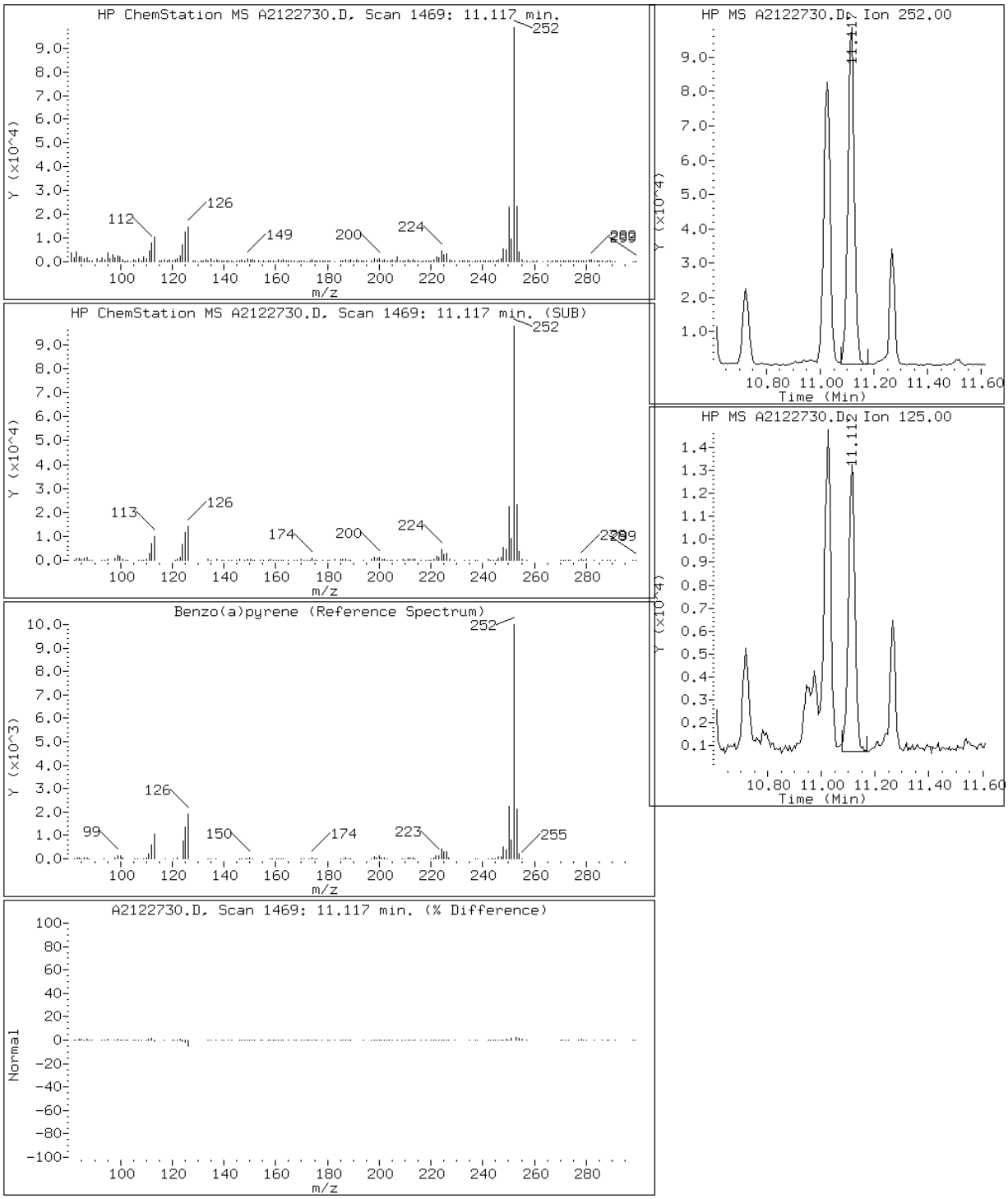
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

21 Benzo(a)pyrene



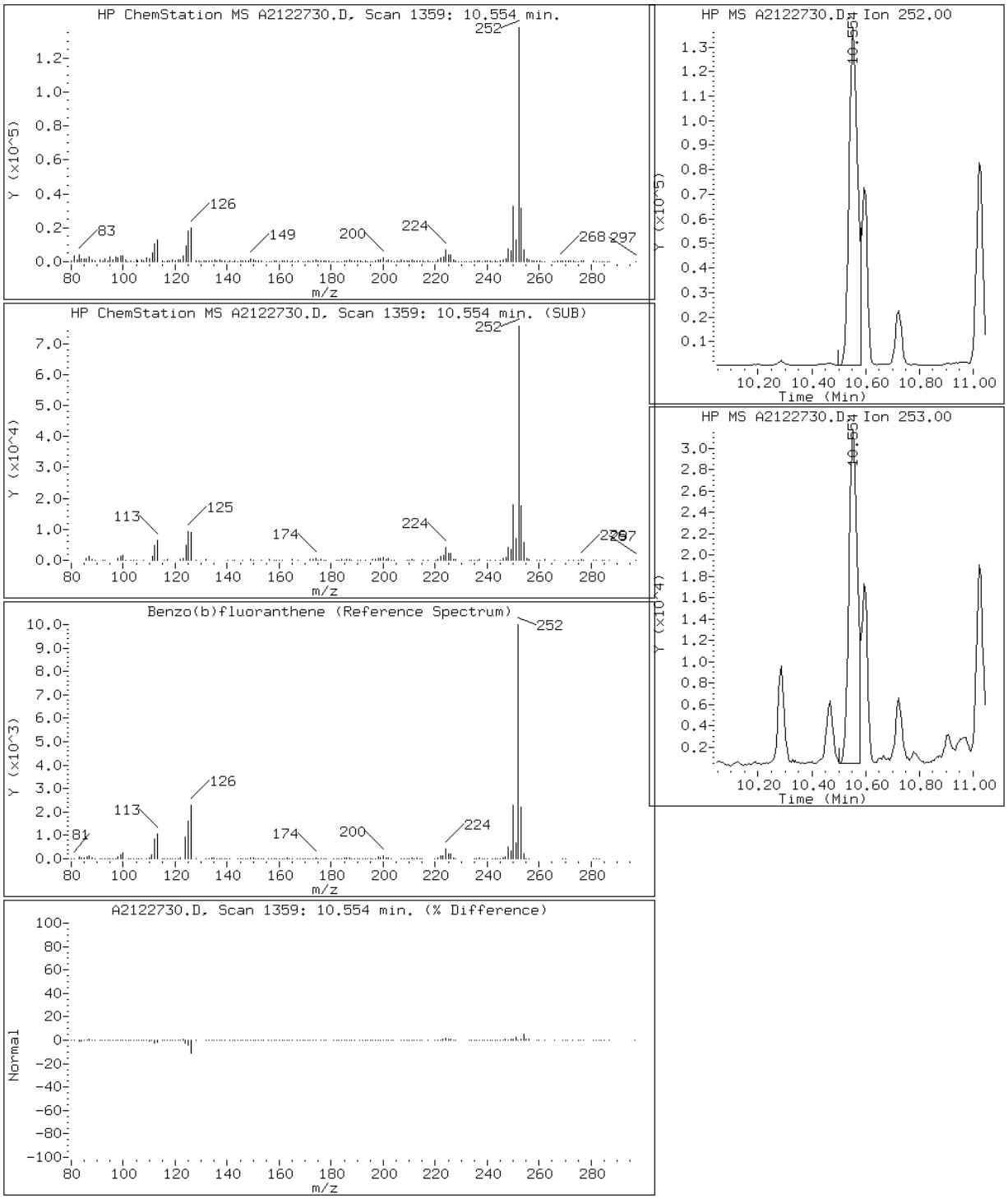
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

19 Benzo(b)fluoranthene



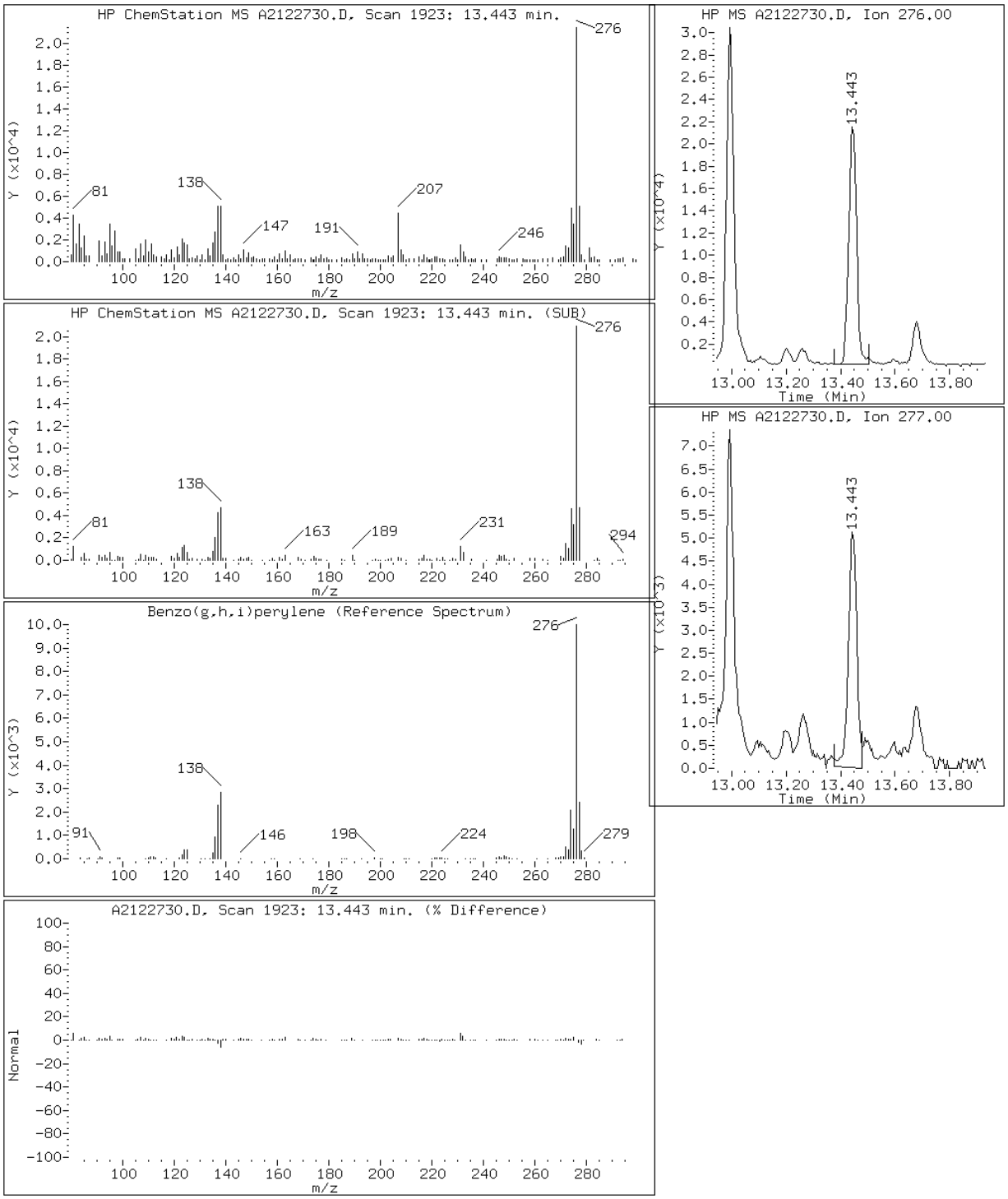
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene



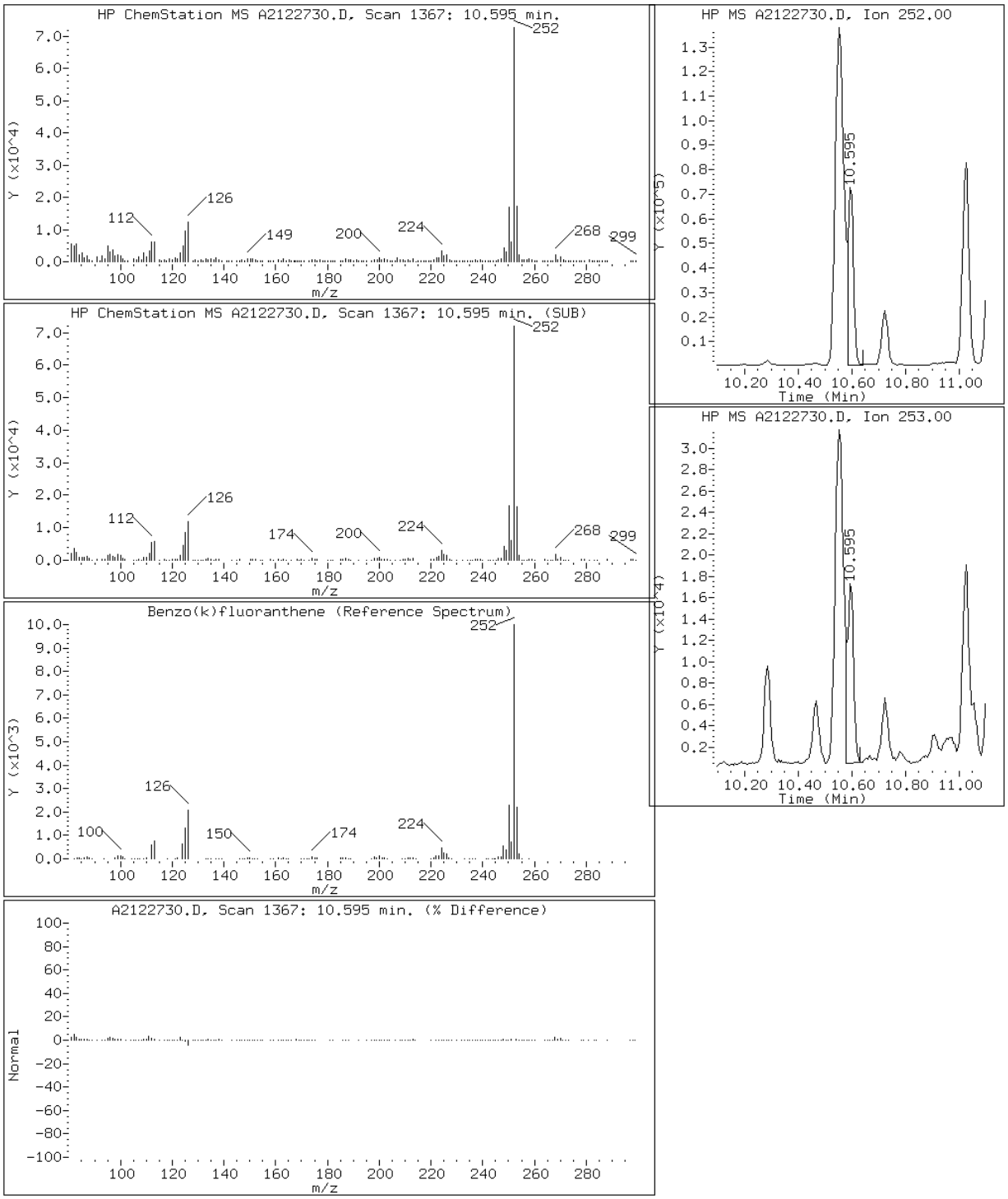
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

20 Benzo(k)fluoranthene



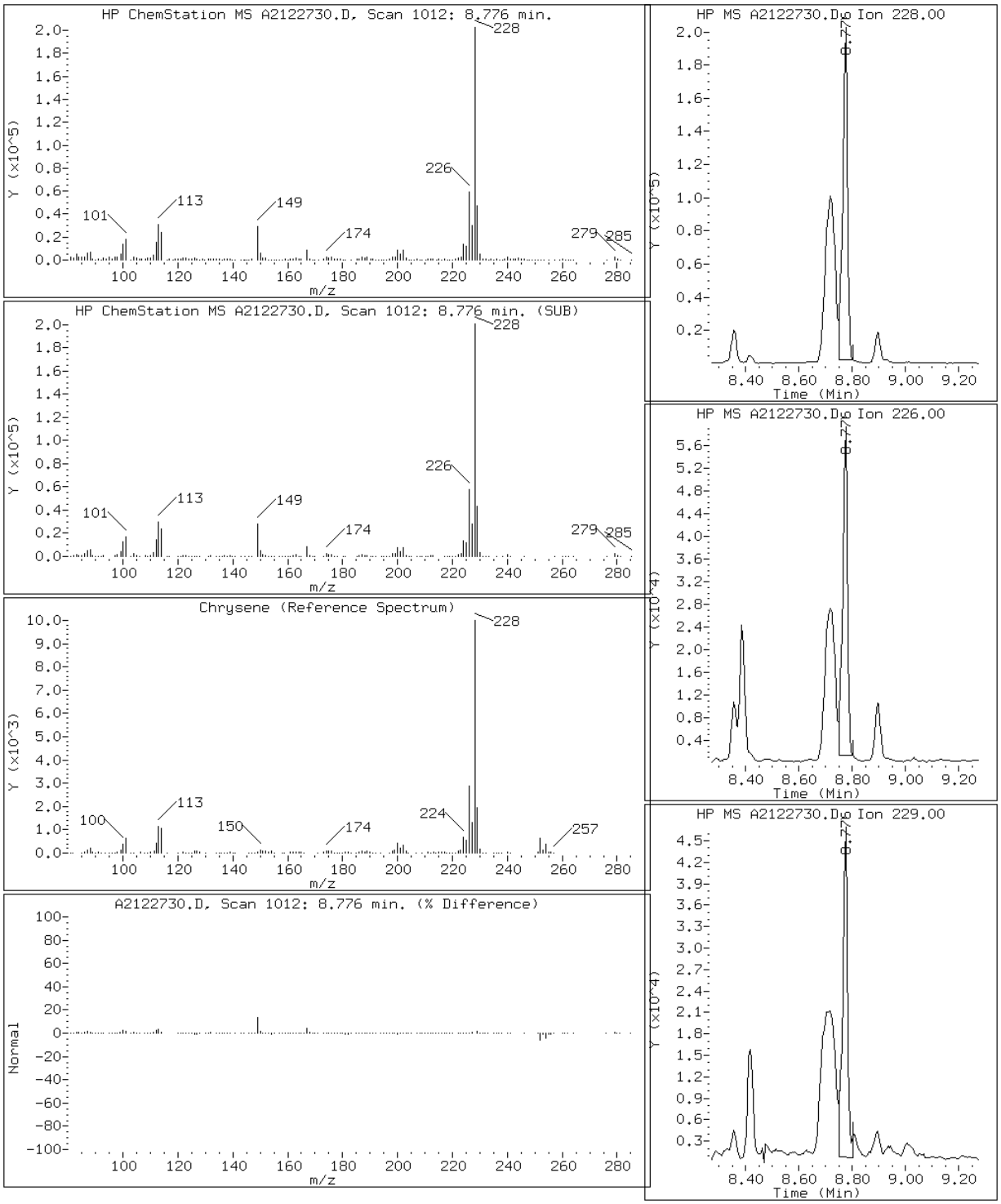
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

17 Chrysene



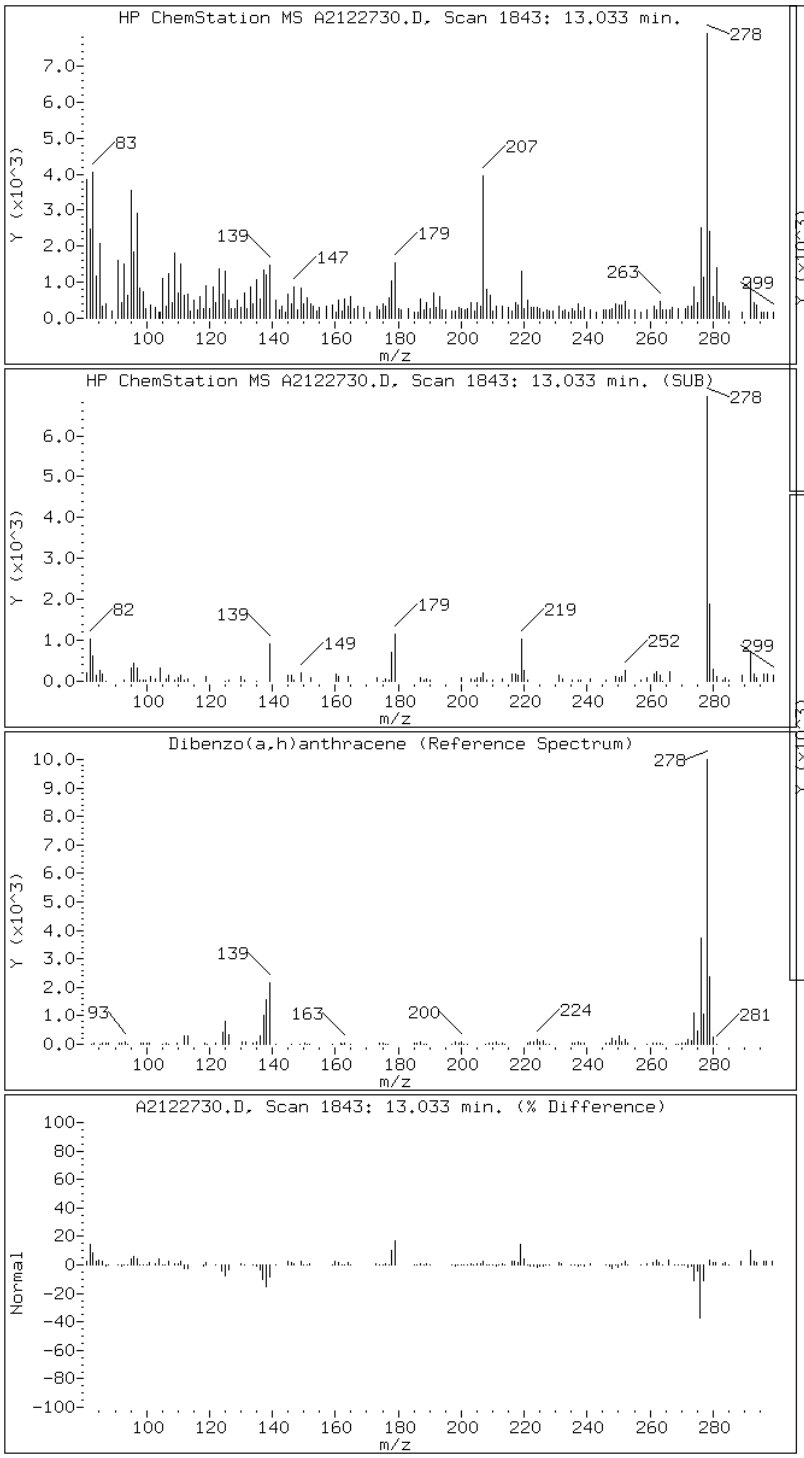
Data File: A2122730.D

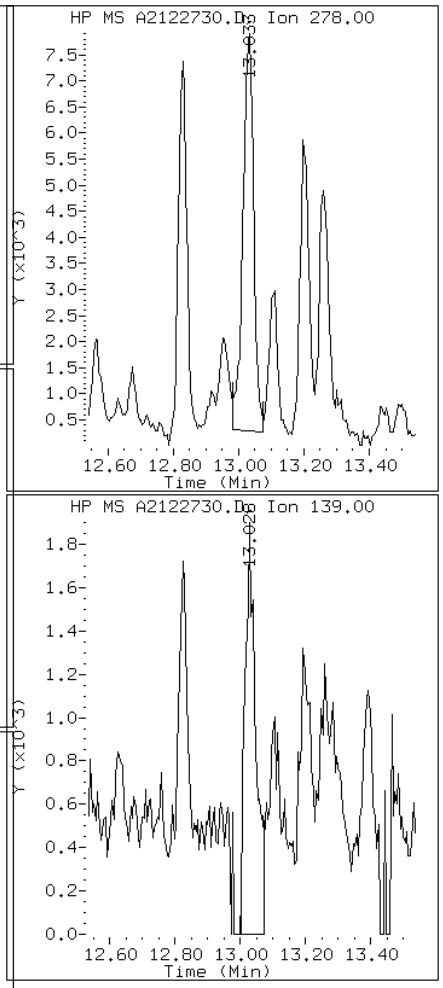
Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene





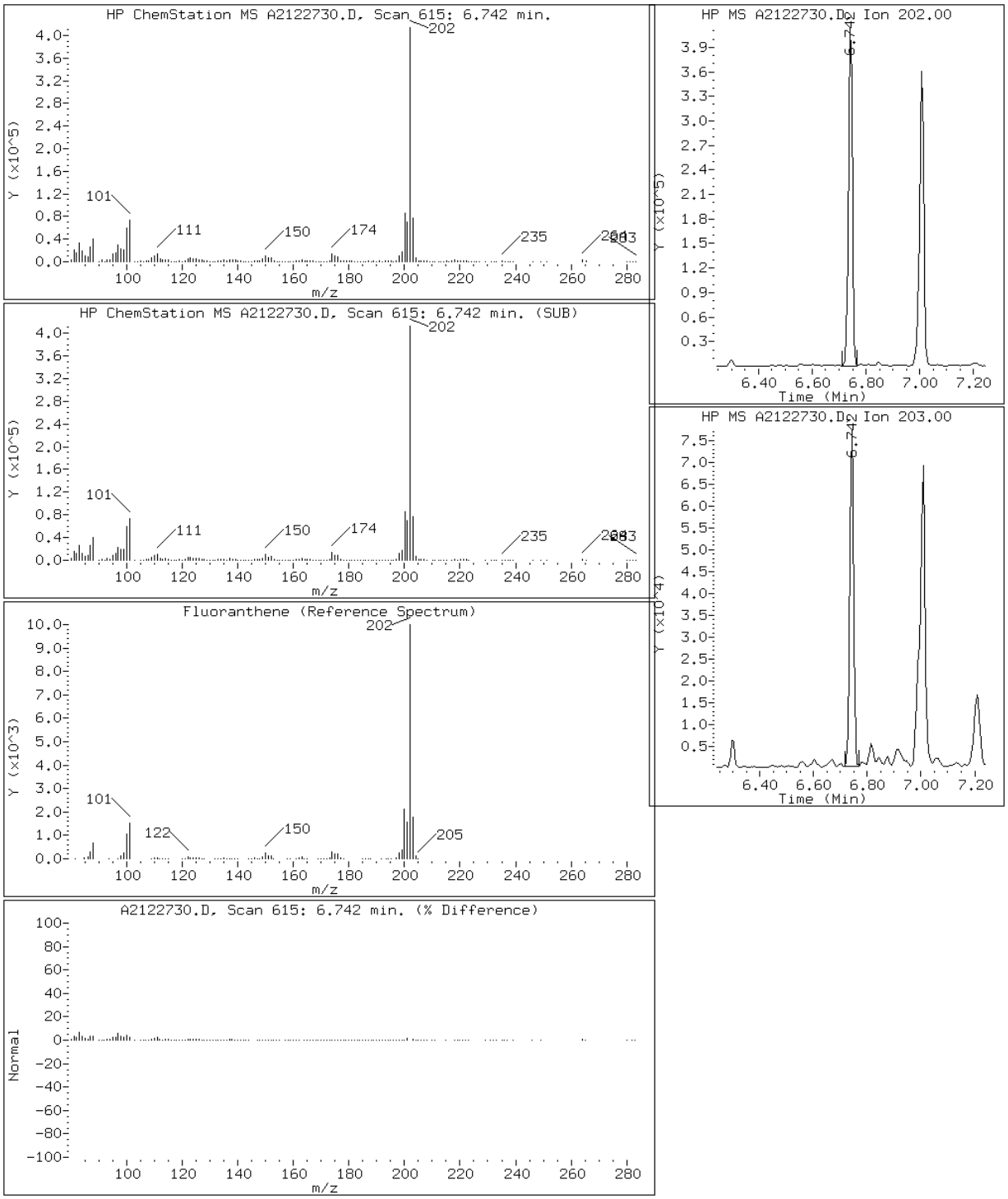
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

13 Fluoranthene



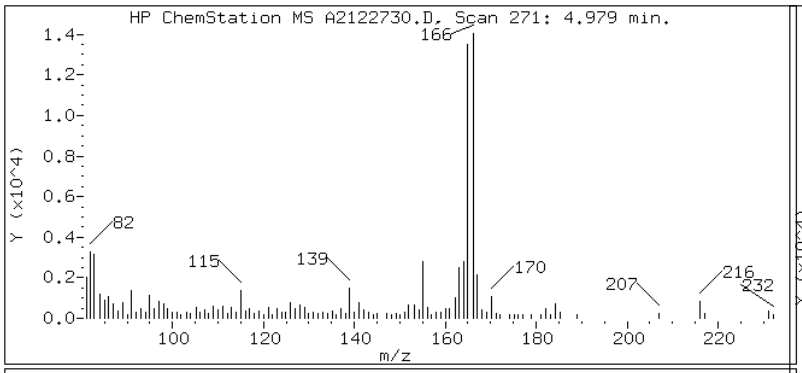
Data File: A2122730.D

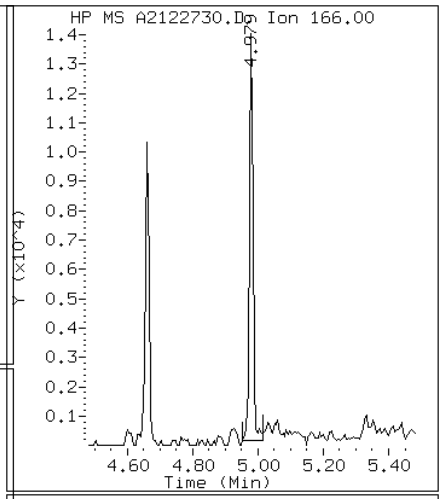
Date: 27-DEC-2012 19:40

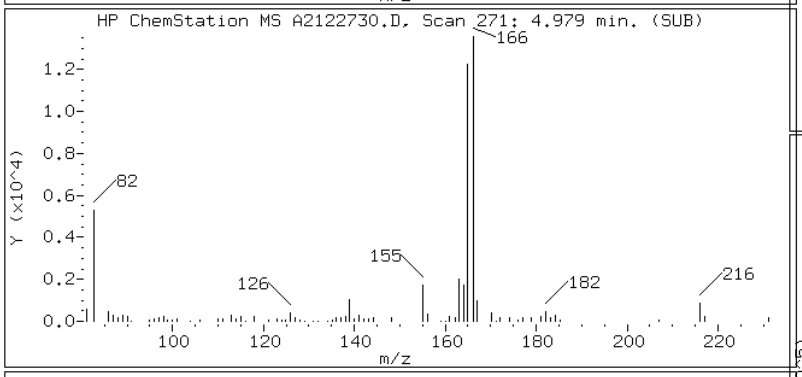
Client ID: CV0511W-CS Instrument: TSMA5973.i

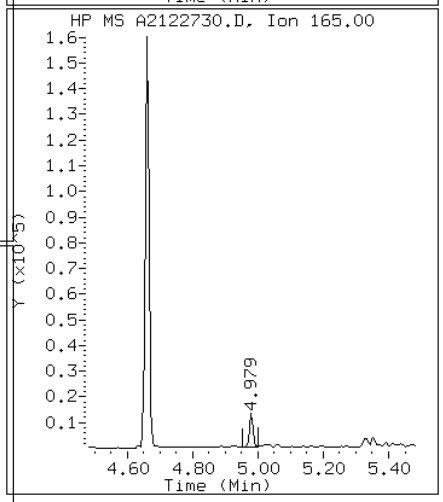
Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

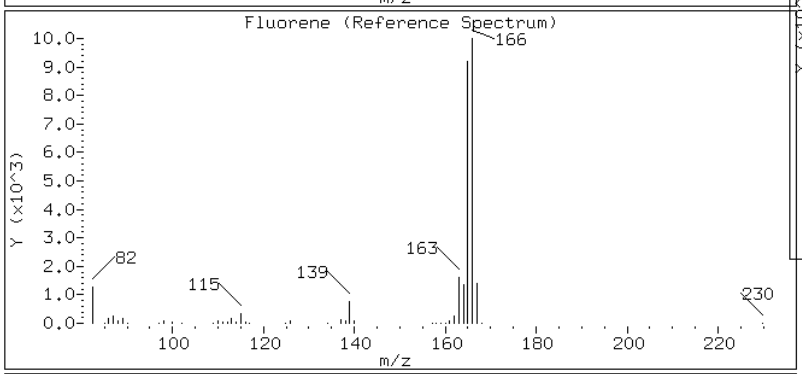
8 Fluorene

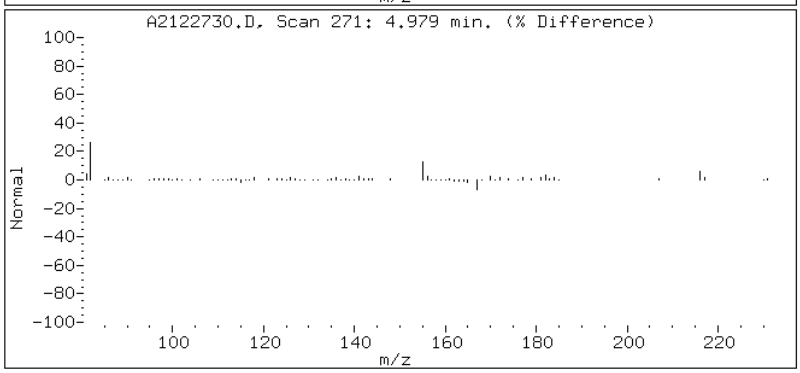












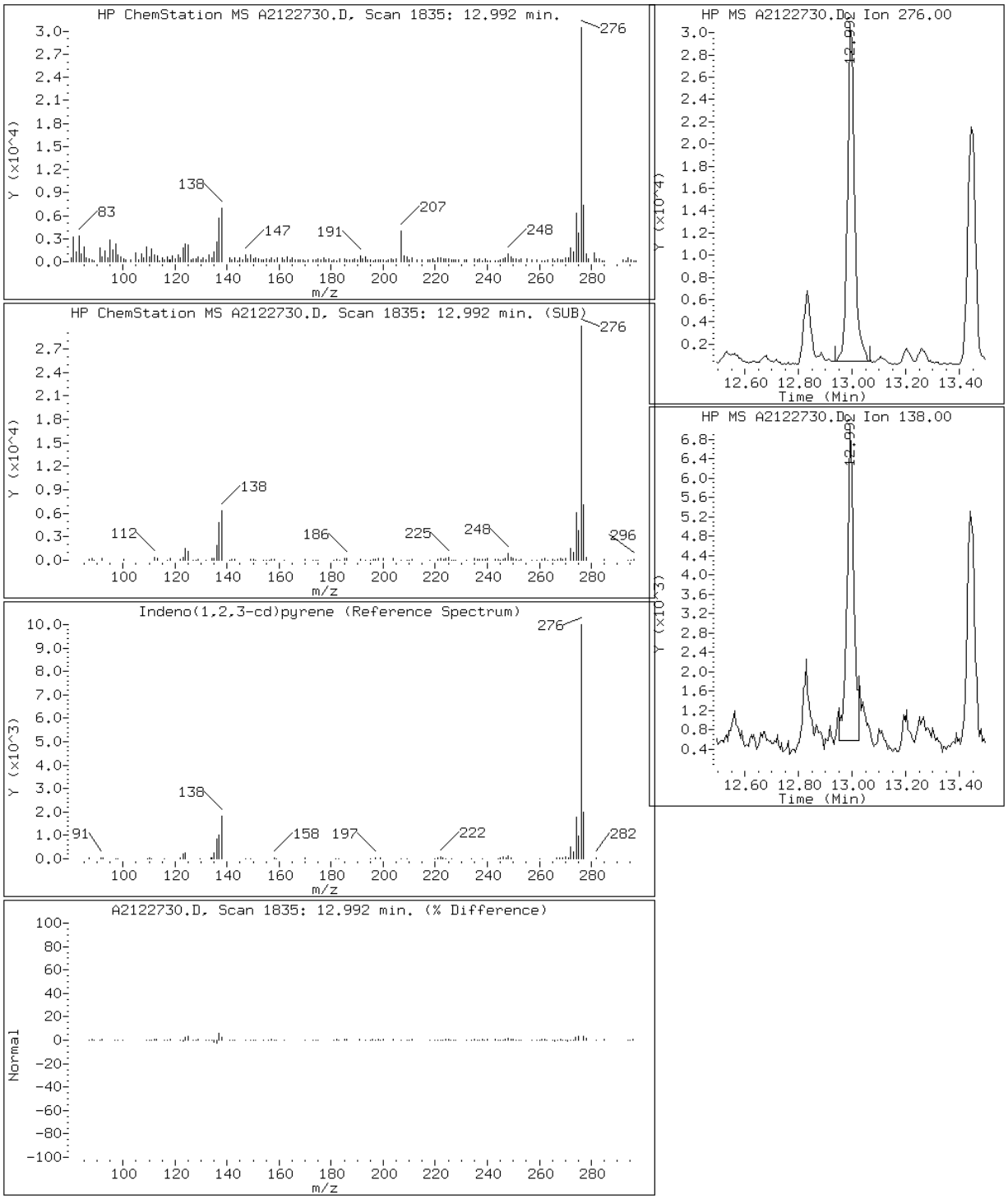
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

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



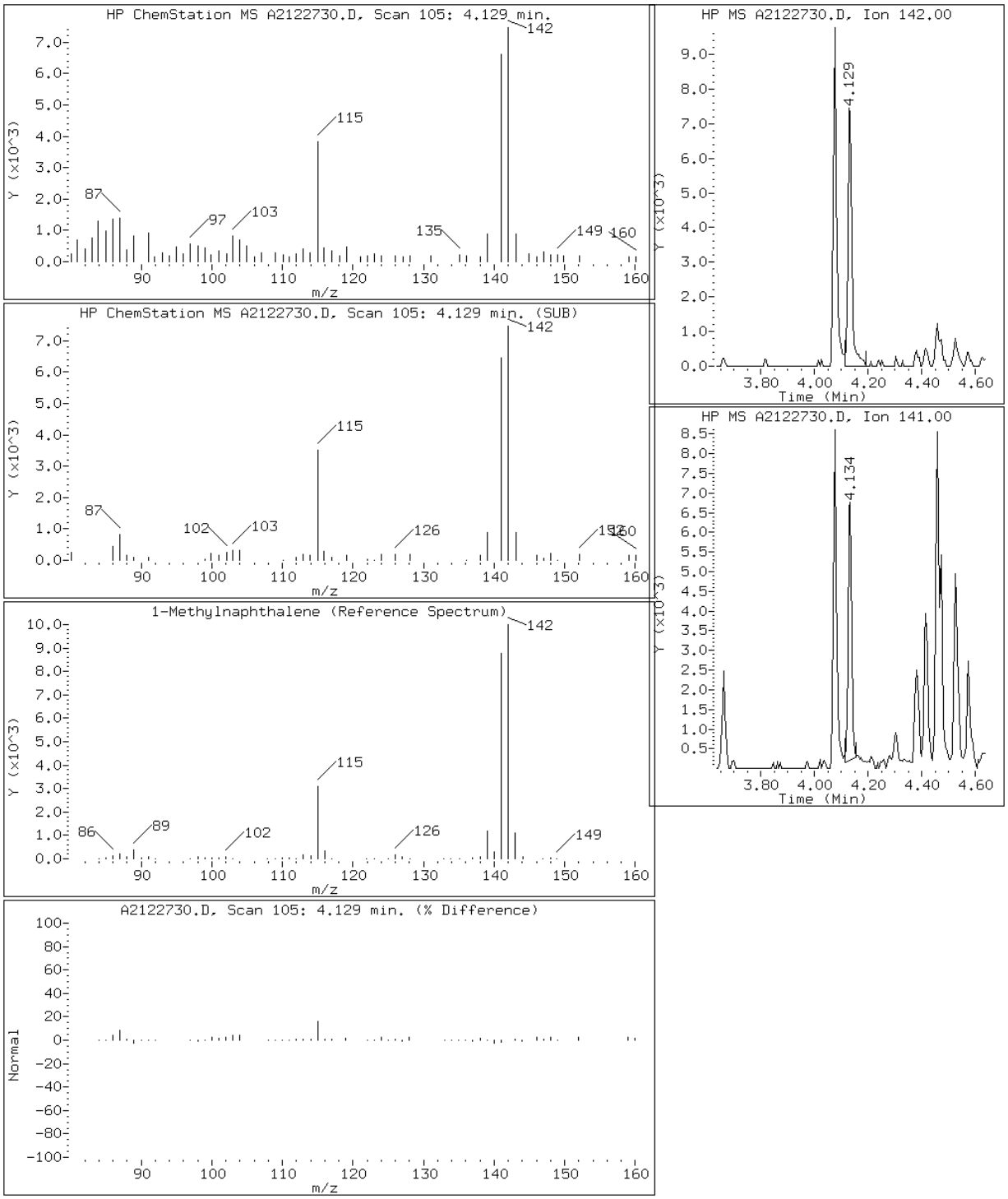
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

4 1-Methylnaphthalene



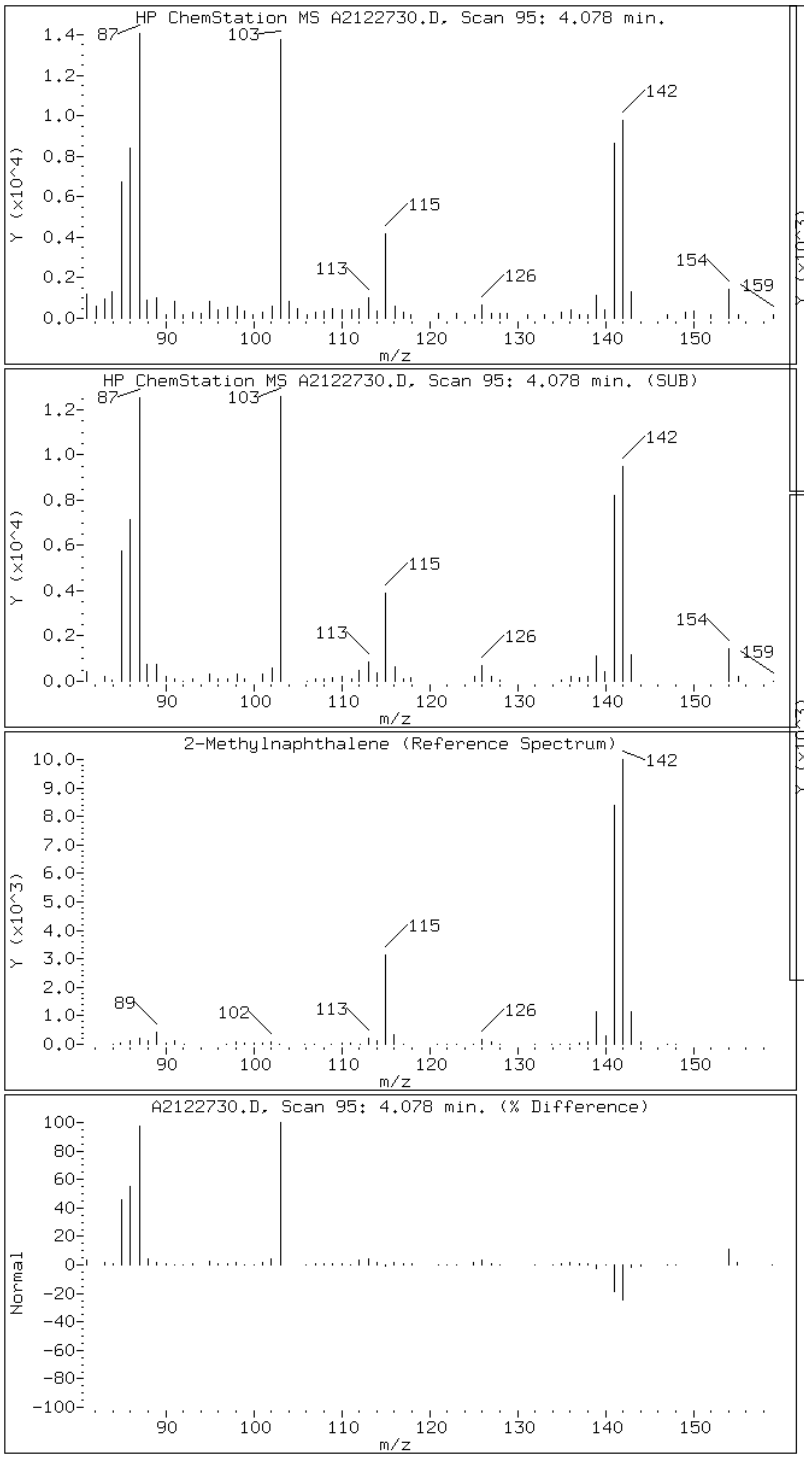
Data File: A2122730.D

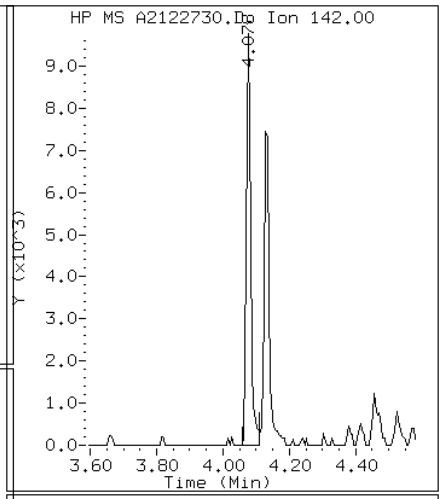
Date: 27-DEC-2012 19:40

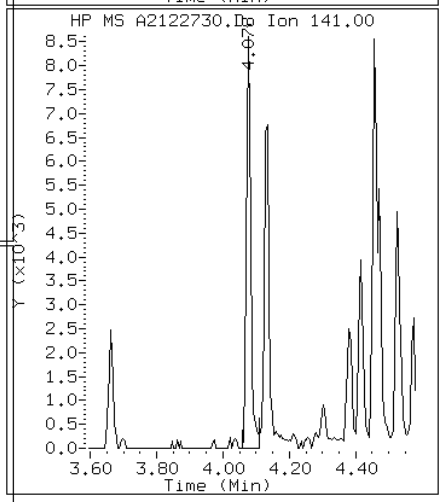
Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

3 2-Methylnaphthalene







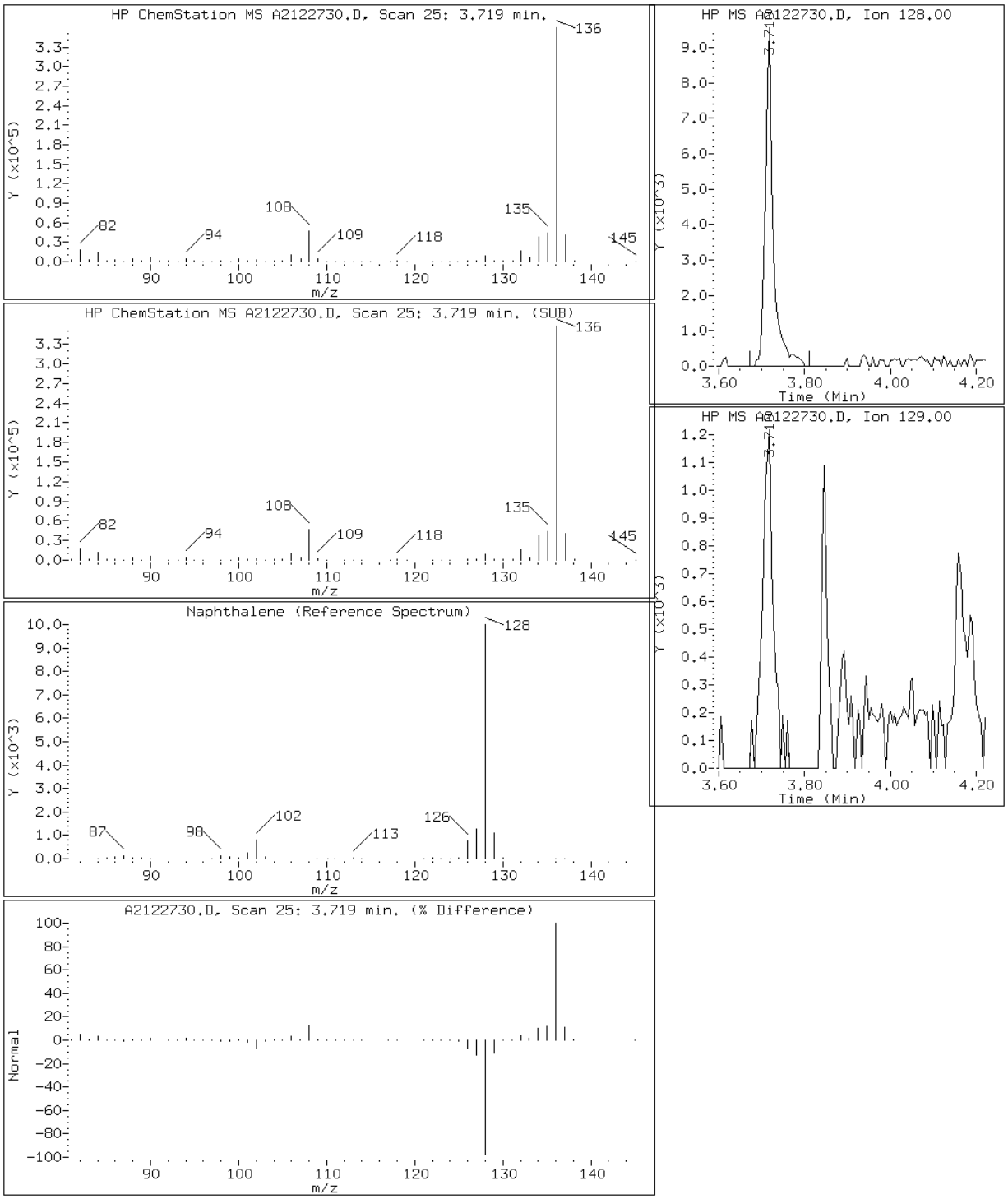
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

2 Naphthalene



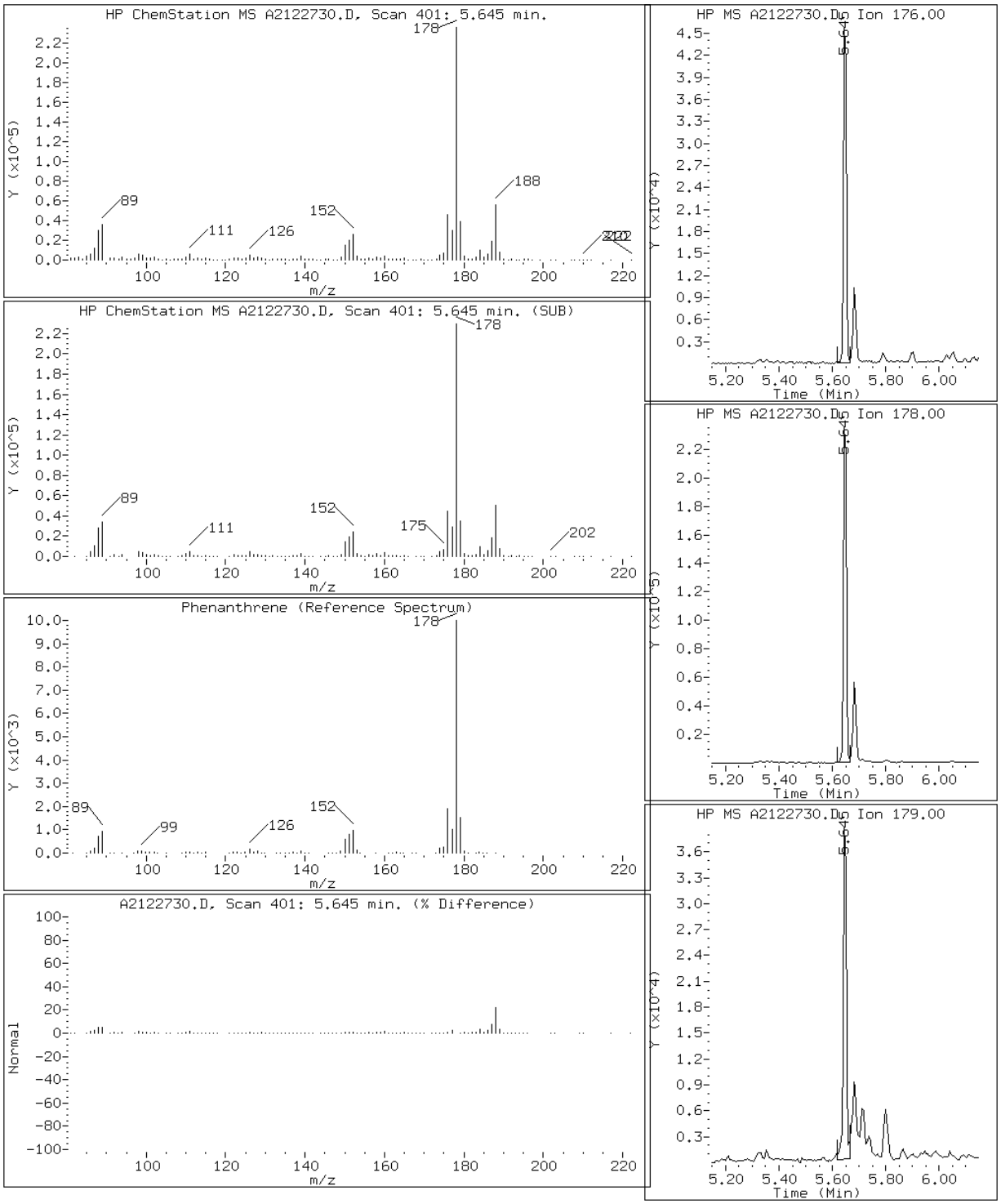
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

10 Phenanthrene



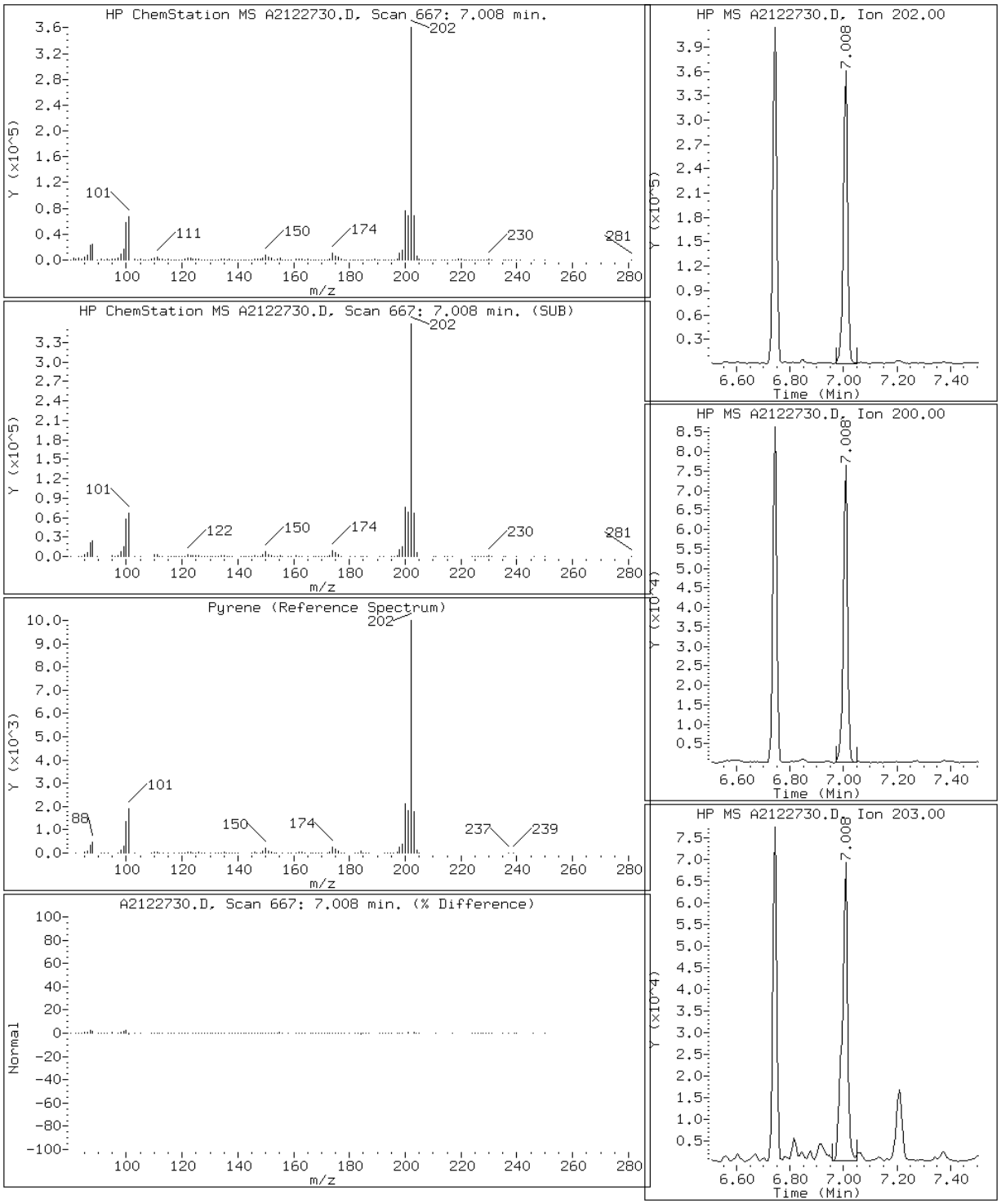
Data File: A2122730.D

Date: 27-DEC-2012 19:40

Client ID: CV0511W-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-56-A~98123~2~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511X-CS | Lab Sample ID: 680-85785-57

Matrix: Solid | Lab File ID: A2122731.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:55

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.81(g) | Date Analyzed: 12/27/2012 19:58

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 25

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

% Moisture: 21.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	740		210	18
208-96-8	Acenaphthylene	53	J	210	16
120-12-7	Anthracene	1600		210	20
56-55-3	Benzo[a]anthracene	8600	B	210	19
50-32-8	Benzo[a]pyrene	9100	B	210	21
205-99-2	Benzo[b]fluoranthene	15000	B	210	29
191-24-2	Benzo[g,h,i]perylene	1900	B	210	34
207-08-9	Benzo[k]fluoranthene	5500	B	210	20
218-01-9	Chrysene	8900	B	210	23
53-70-3	Dibenz(a,h)anthracene	780	B	210	20
206-44-0	Fluoranthene	16000	B	210	19
86-73-7	Fluorene	510		210	16
193-39-5	Indeno[1,2,3-cd]pyrene	2900	B	210	34
90-12-0	1-Methylnaphthalene	33	J	210	16
91-57-6	2-Methylnaphthalene	33	J	210	16
91-20-3	Naphthalene	210	U	210	16
85-01-8	Phenanthrene	7600		210	14
129-00-0	Pyrene	14000	B	210	16

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\A2122731.D
Lab Smp Id: 680-85785-A-57-A Client Smp ID: CV0511X-CS
Inj Date : 27-DEC-2012 19:58
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-57-A~98123~25~8270D/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: 26
Dil Factor: 25.00000
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	25.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.810	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	3.708	3.705	(1.000)	1360093	40.0000		
2 Naphthalene	128	Compound Not Detected.						NO PEAK
3 2-Methylnaphthalene	142	4.077	4.079	(1.099)	785	0.03242	26(a)	
4 1-Methylnaphthalene	142	4.133	4.135	(1.115)	799	0.03189	26(a)	
* 5 Acenaphthene-d10	164	4.661	4.663	(1.000)	727068	40.0000		
6 Acenaphthylene	152	4.579	4.581	(0.982)	2012	0.05164	42(a)	
7 Acenaphthene	153	4.676	4.678	(1.003)	17220	0.72047	580	
8 Fluorene	166	4.979	4.980	(1.068)	13632	0.49827	400	
* 9 Phenanthrene-d10	188	5.629	5.631	(1.000)	1150291	40.0000		
10 Phenanthrene	176	5.645	5.646	(1.003)	54600	7.37678	6000	
11 Anthracene	178	5.680	5.687	(1.009)	60565	1.54093	1200	
$ 12 o-Terphenyl	230	Compound Not Detected.						BDL
13 Fluoranthene	202	6.746	6.743	(1.198)	731078	16.0093	13000	
* 14 Chrysene-d12	240	8.739	8.736	(1.000)	1332511	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	7.007	7.004	(0.802)	629841	13.8685	11000	
16 Benzo(a)anthracene	226	8.703	8.700	(0.996)	101140	8.39897	6800	
17 Chrysene	228	8.770	8.772	(1.004)	357038	8.64541	7000	
* 18 Perylene-d12	264	11.229	11.241	(1.000)	897454	40.0000		
19 Benzo(b)fluoranthene	252	10.548	10.544	(0.939)	393490	14.2176	12000	
20 Benzo(k)fluoranthene	252	10.589	10.596	(0.943)	151327	5.35364	4300	
21 Benzo(a)pyrene	252	11.111	11.113	(0.990)	220427	8.81463	7200	
22 Indeno(1,2,3-cd)pyrene	276	12.981	12.993	(1.156)	71105	2.82142	2300	
23 Dibenzo(a,h)anthracene	278	13.017	13.039	(1.159)	19359	0.75822	620	
24 Benzo(g,h,i)perylene	276	13.422	13.444	(1.195)	45623	1.82732	1500	

QC Flag Legend

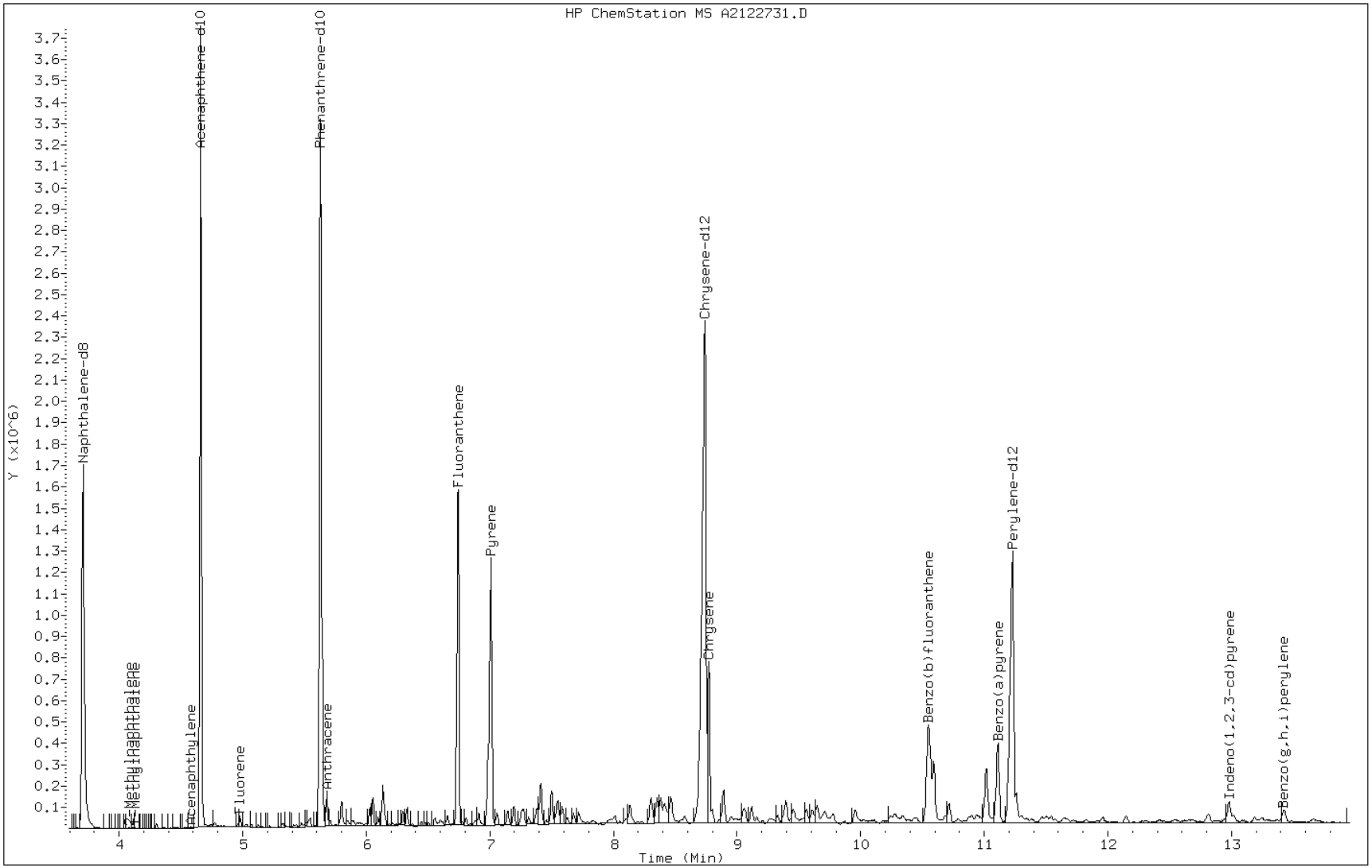
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW



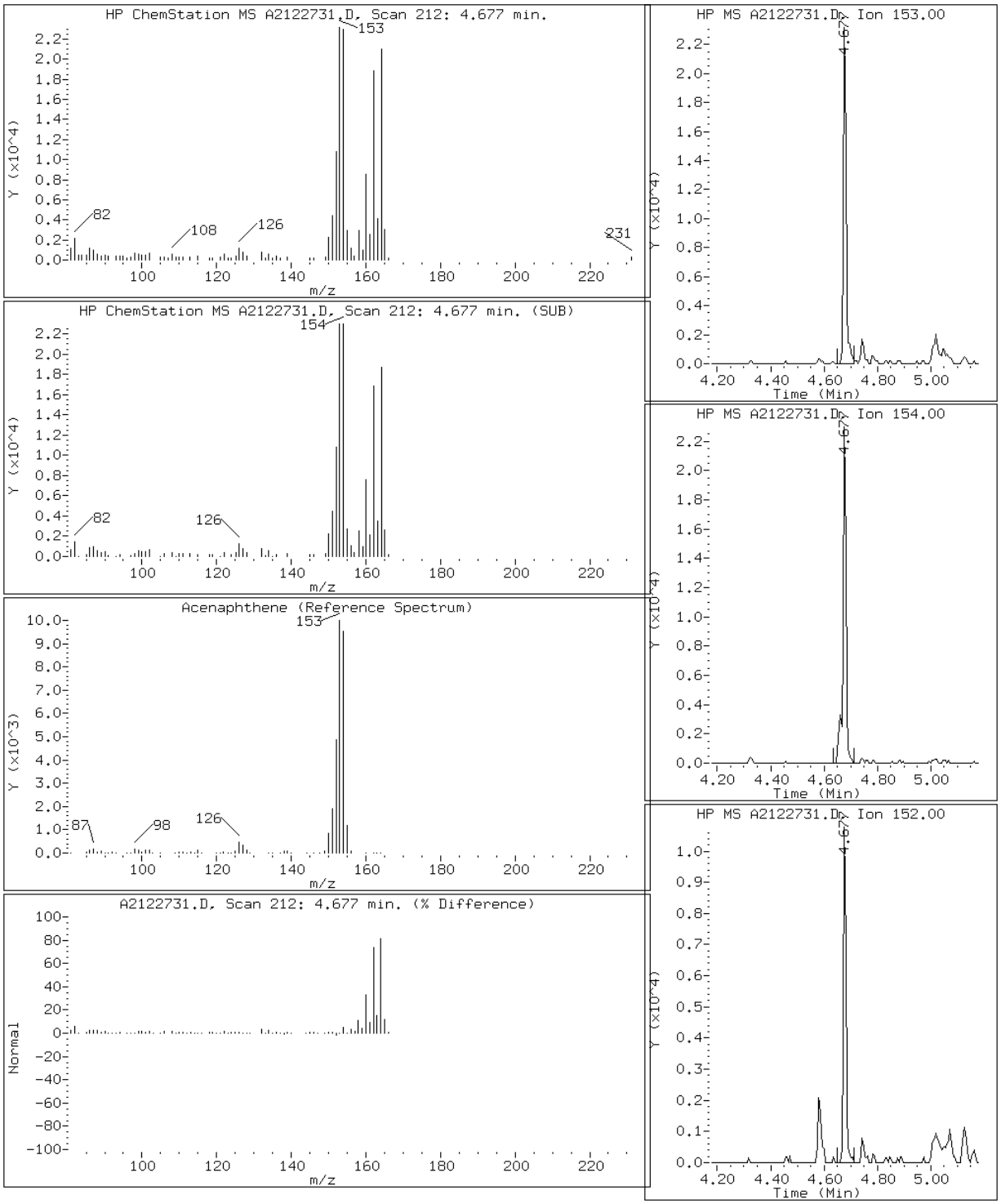
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

7 Acenaphthene



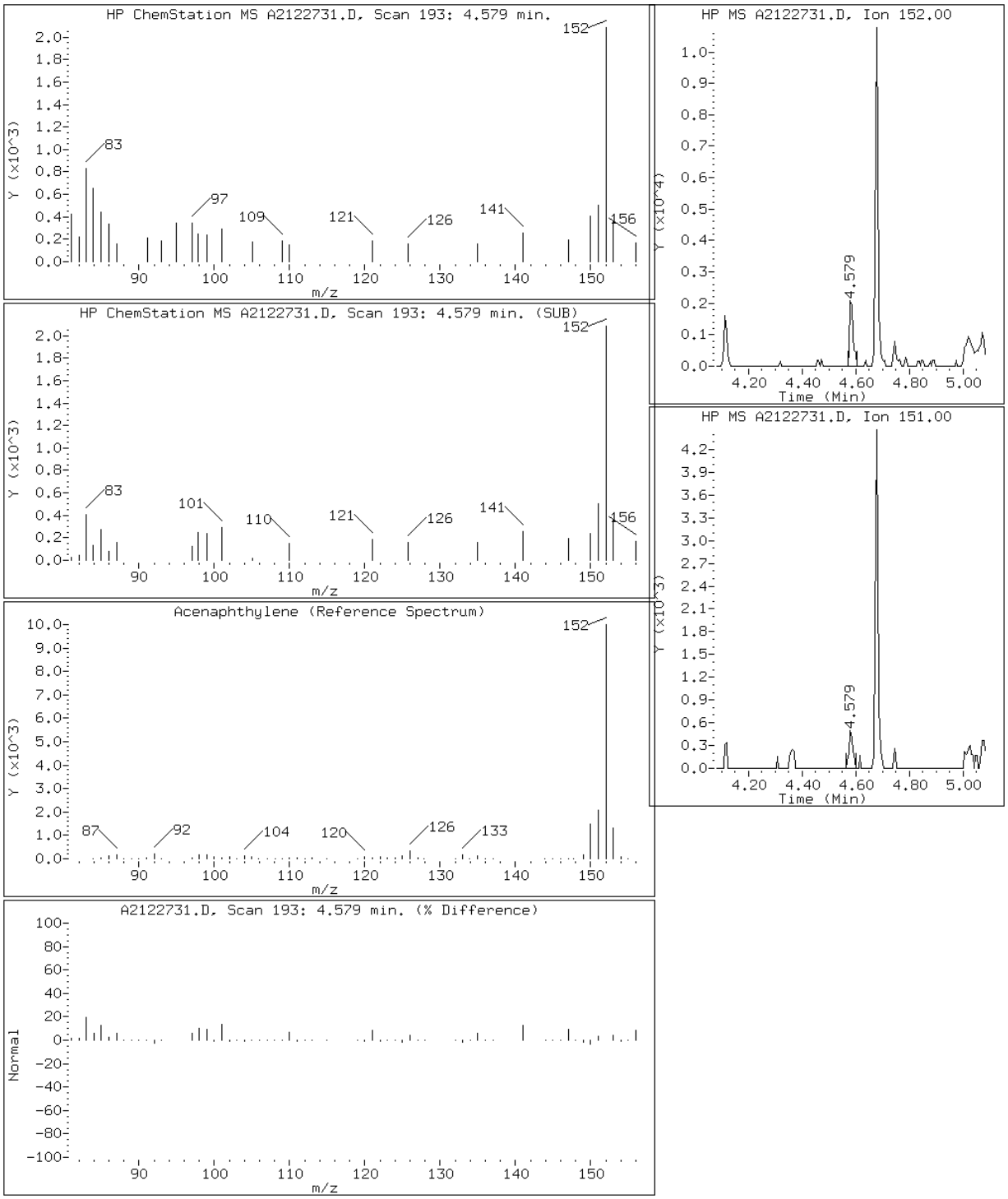
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

6 Acenaphthylene



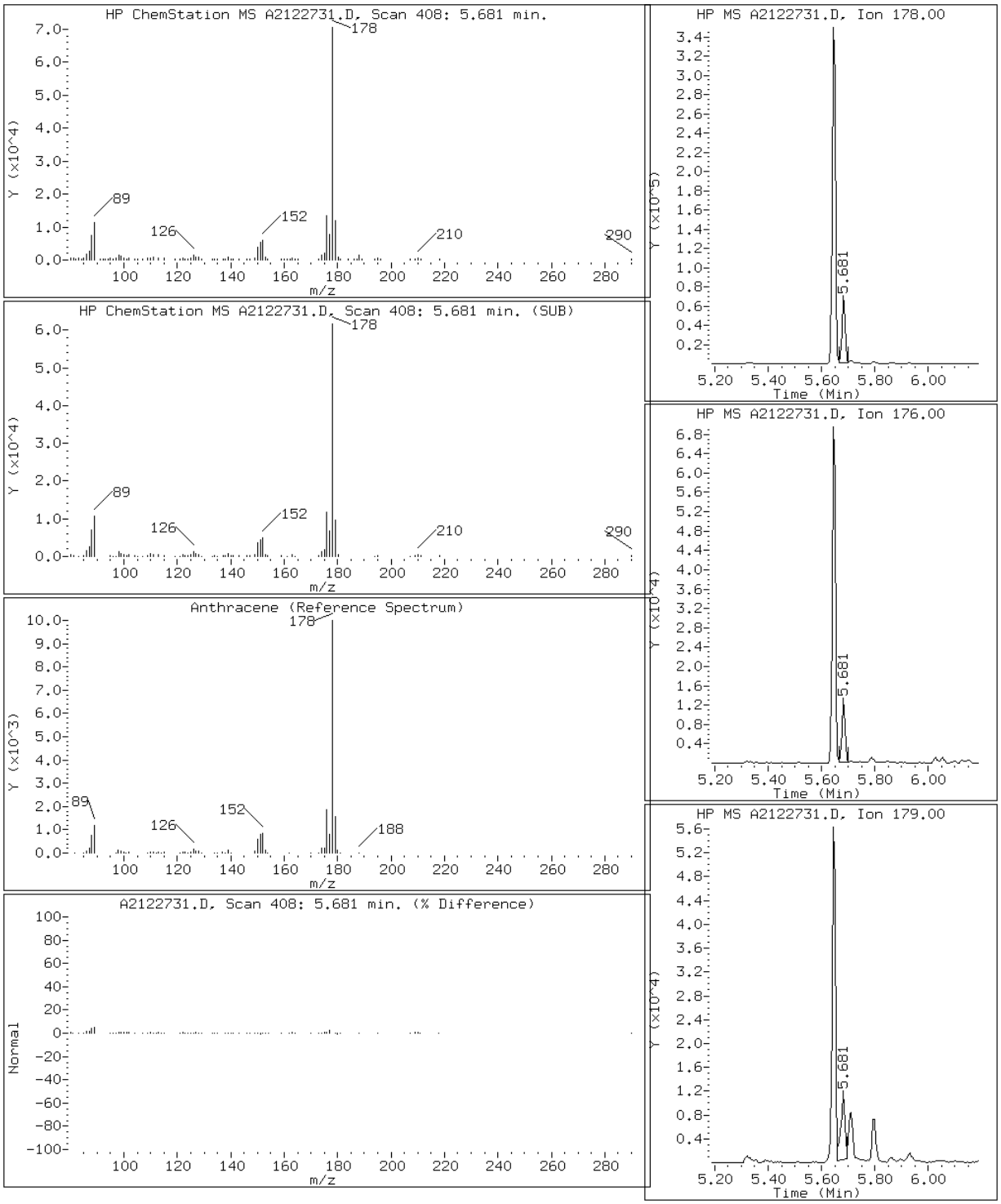
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

11 Anthracene



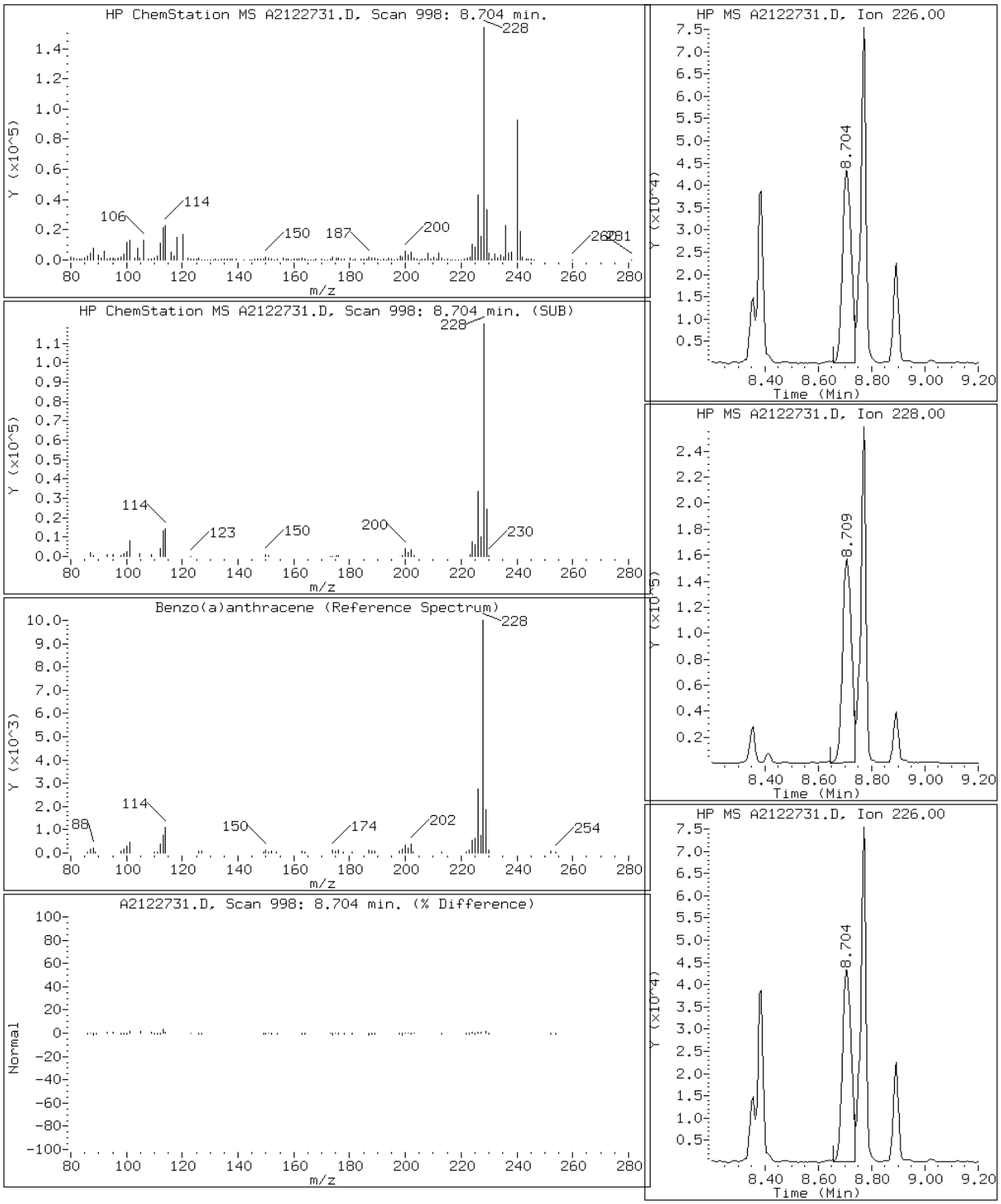
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

16 Benzo(a)anthracene



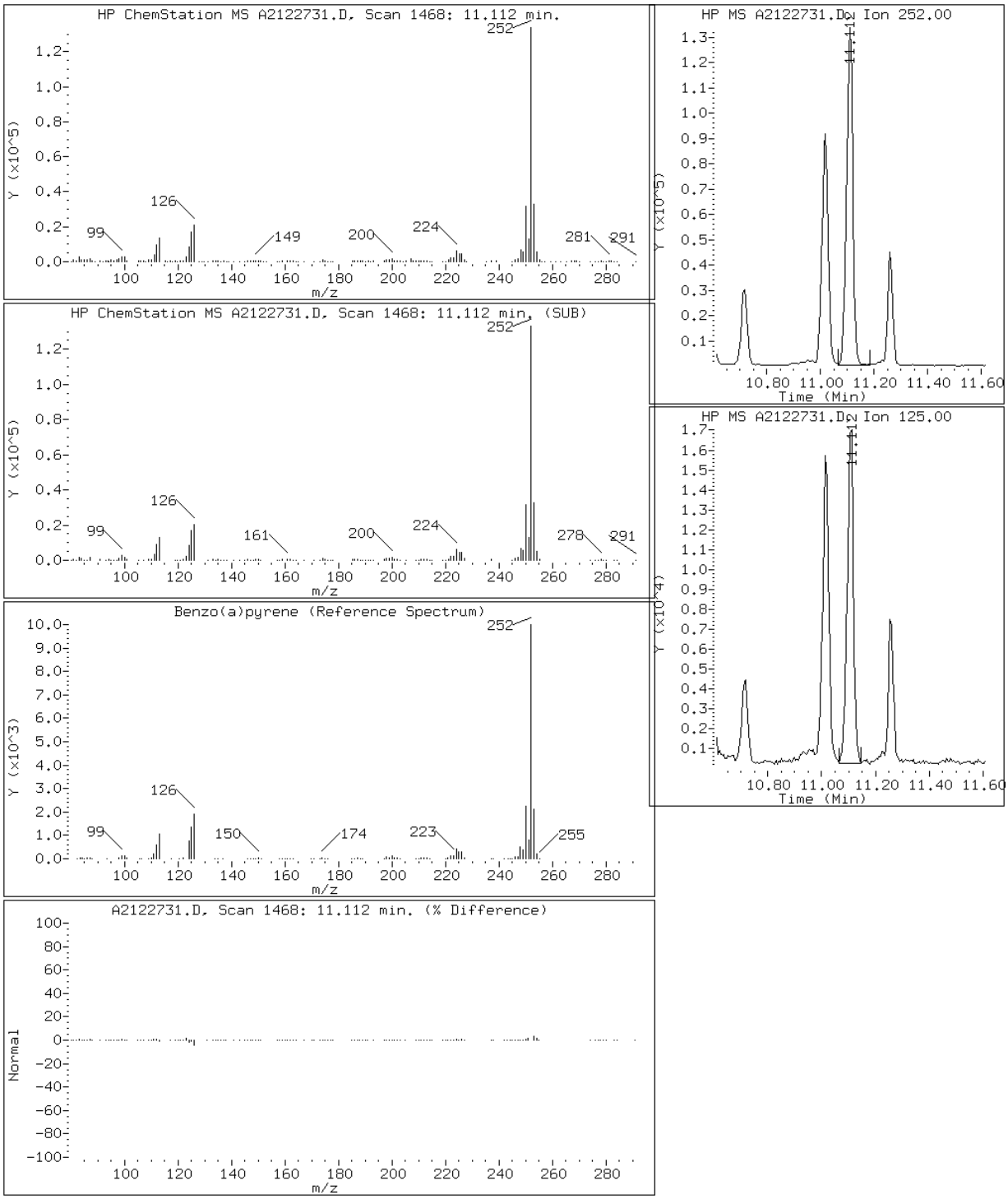
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

21 Benzo(a)pyrene



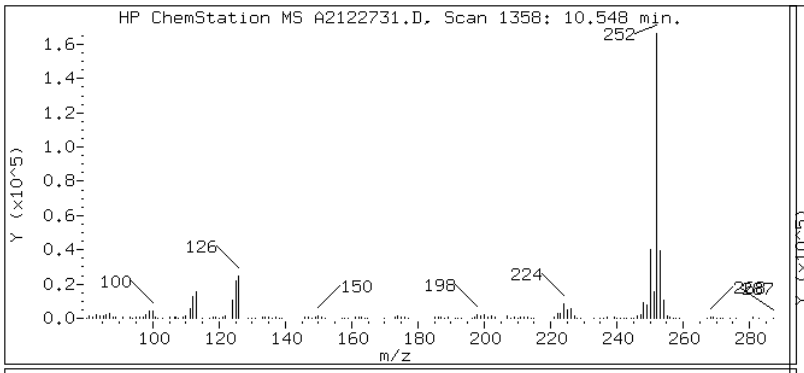
Data File: A2122731.D

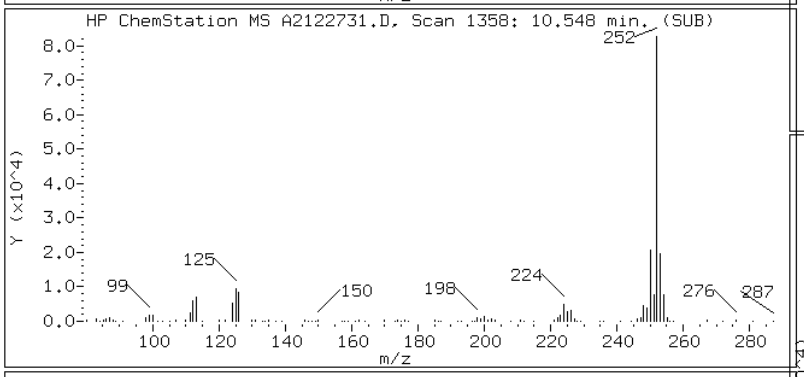
Date: 27-DEC-2012 19:58

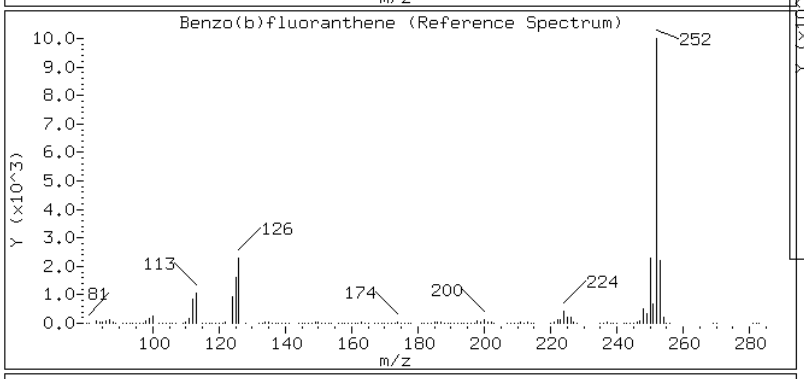
Client ID: CV0511X-CS Instrument: TSMA5973.i

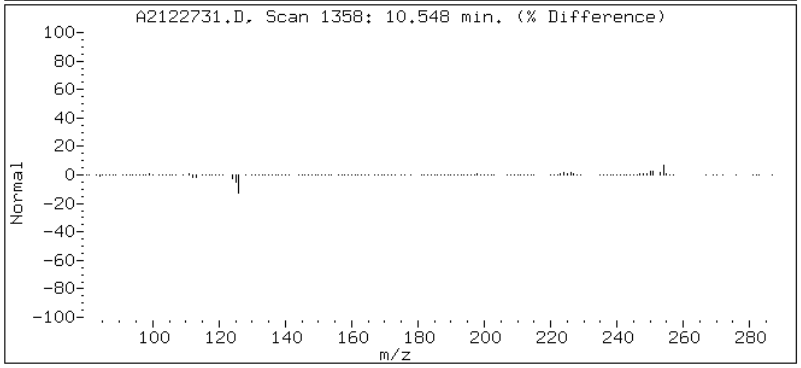
Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

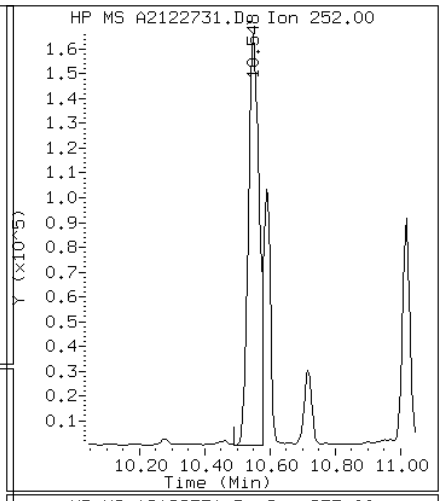
19 Benzo(b)fluoranthene

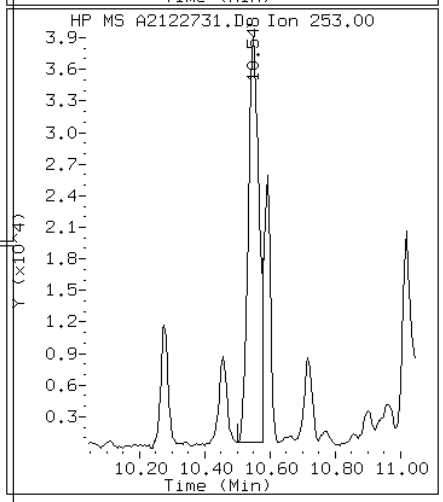












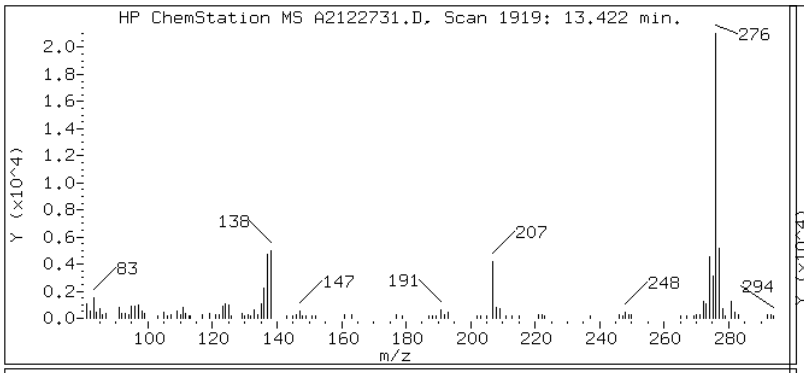
Data File: A2122731.D

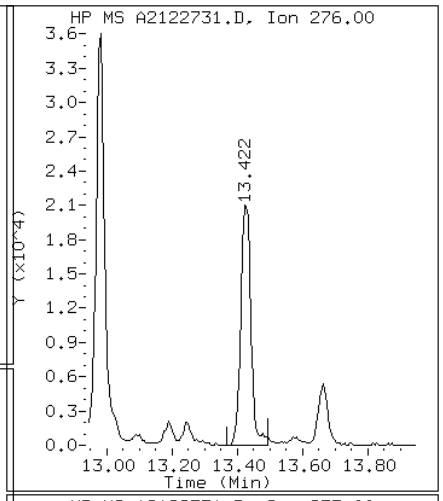
Date: 27-DEC-2012 19:58

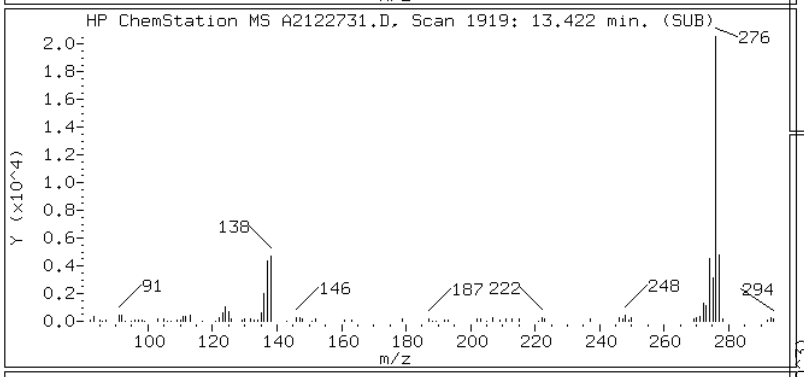
Client ID: CV0511X-CS Instrument: TSMA5973.i

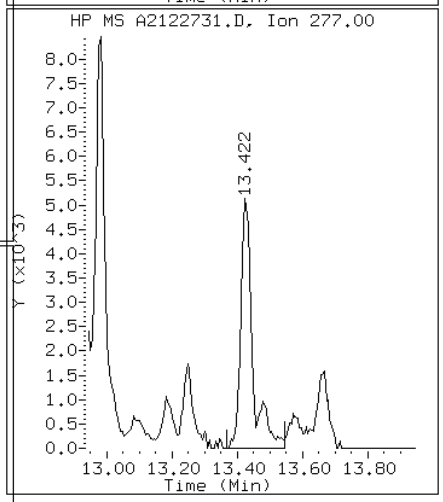
Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

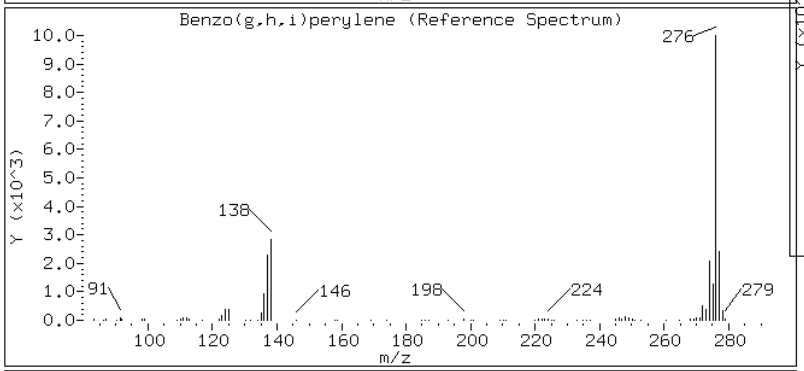
24 Benzo(g,h,i)perylene

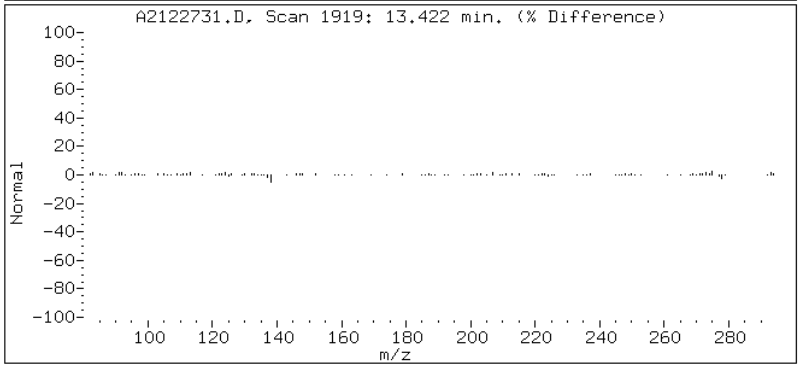












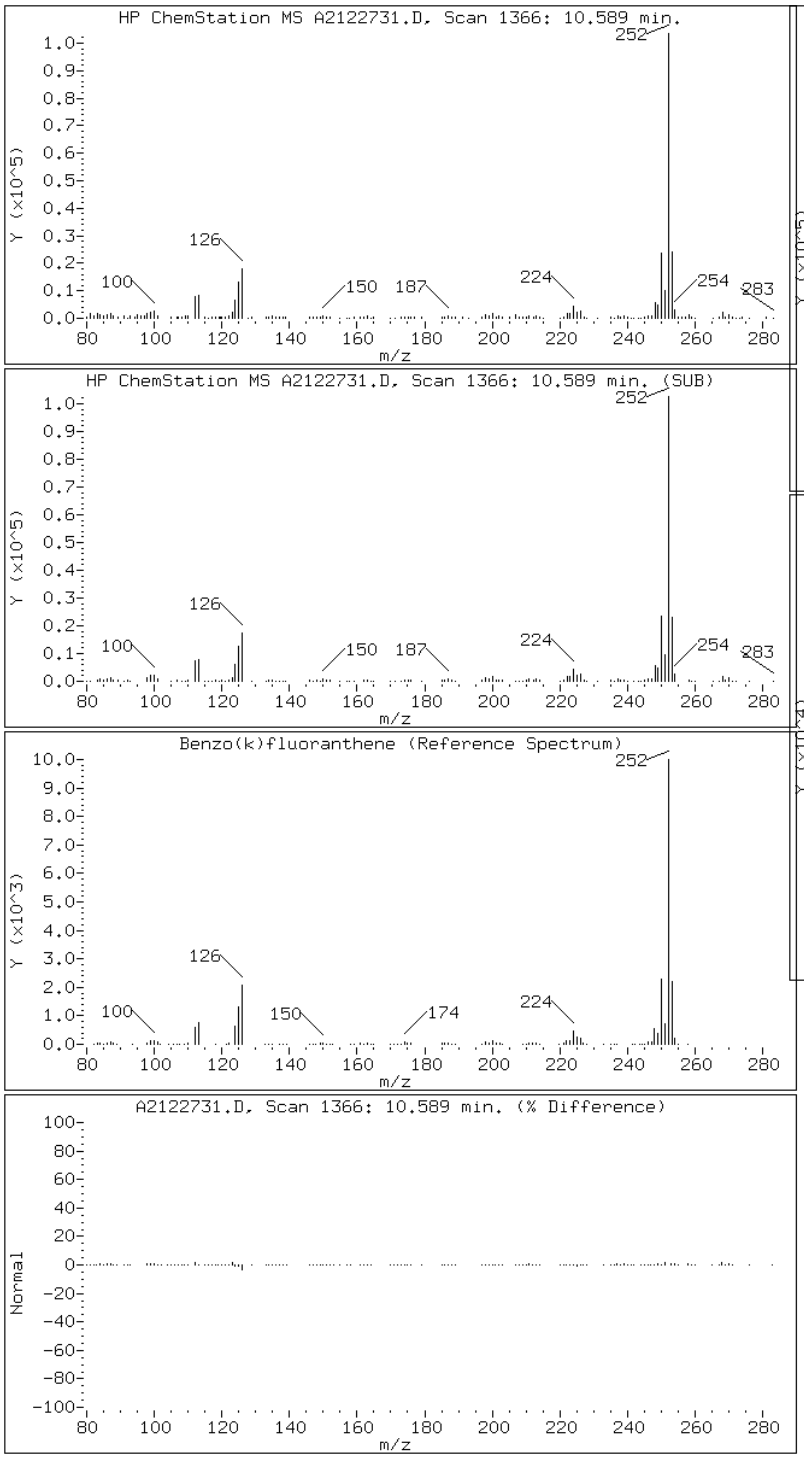
Data File: A2122731.D

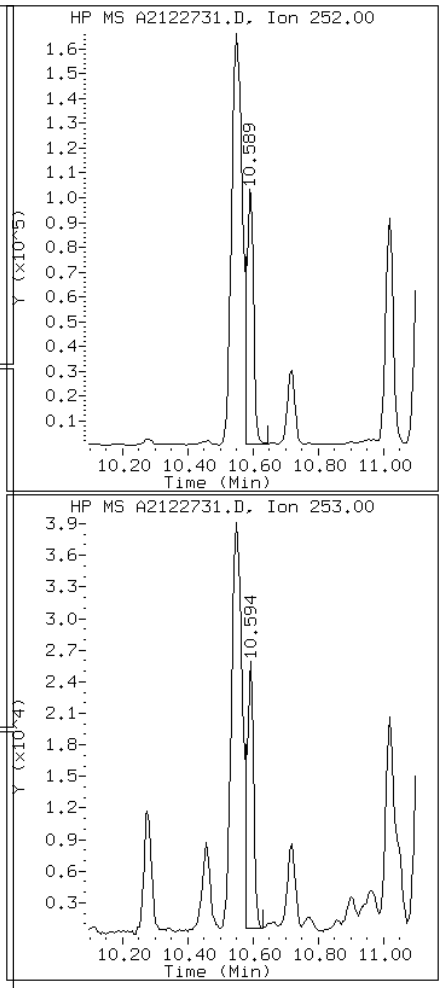
Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

20 Benzo(k)fluoranthene





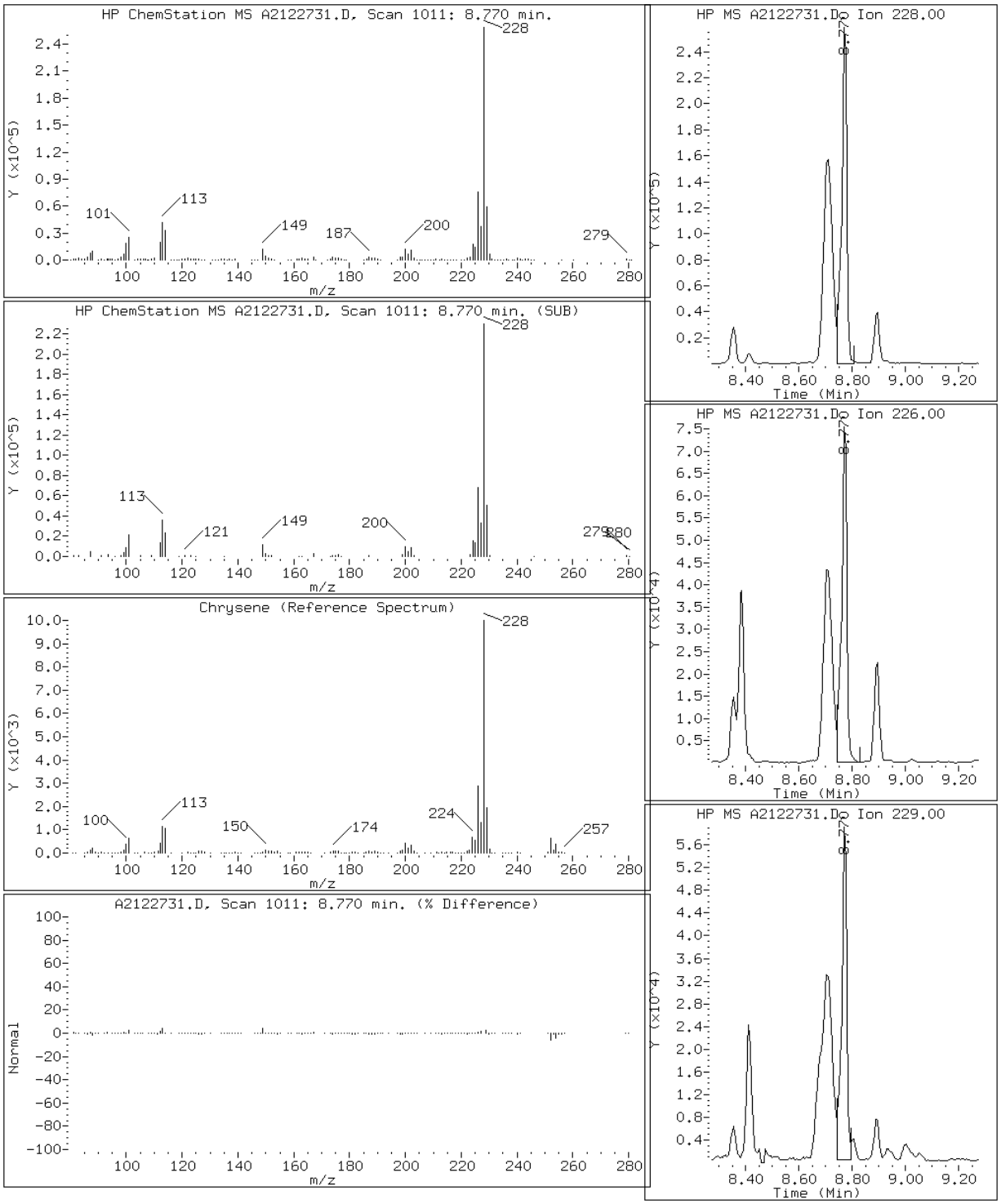
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

17 Chrysene



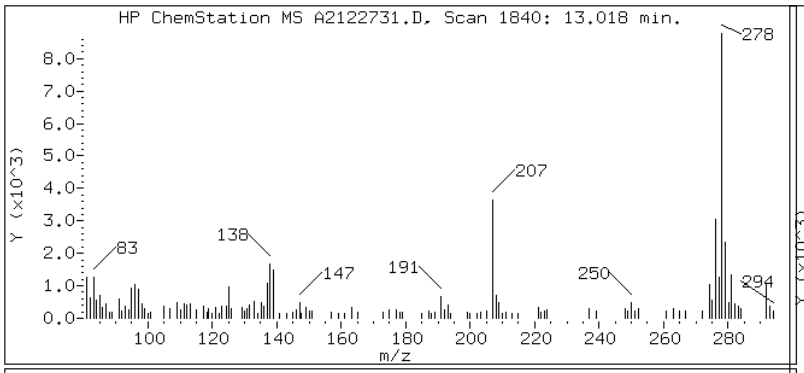
Data File: A2122731.D

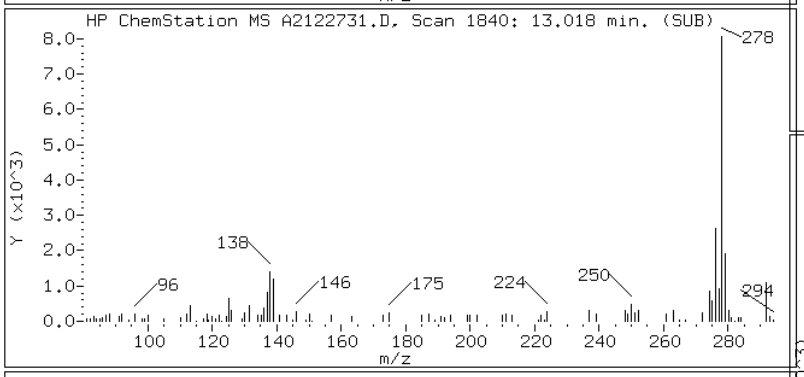
Date: 27-DEC-2012 19:58

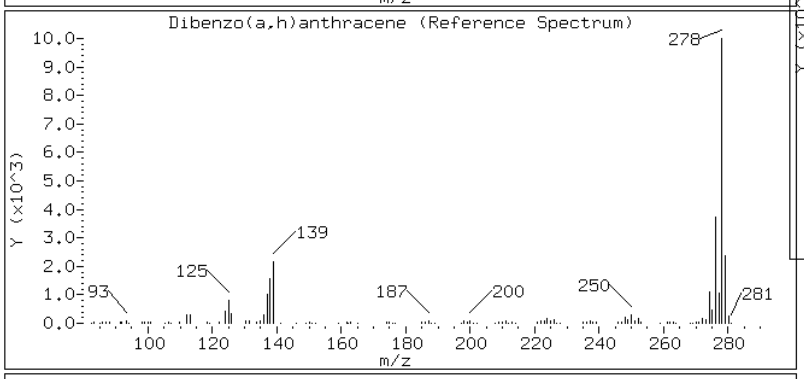
Client ID: CV0511X-CS Instrument: TSMA5973.i

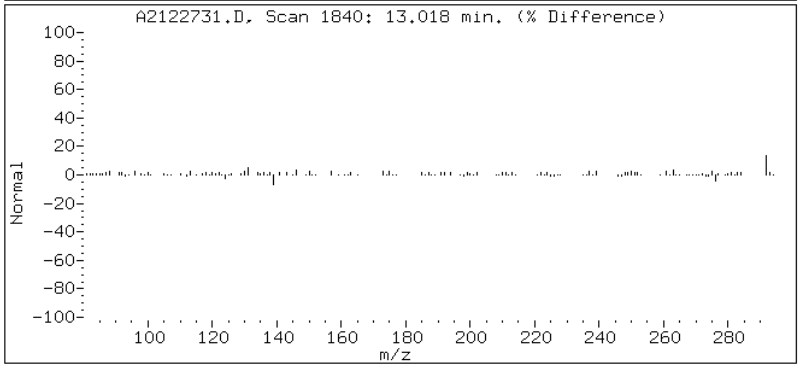
Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

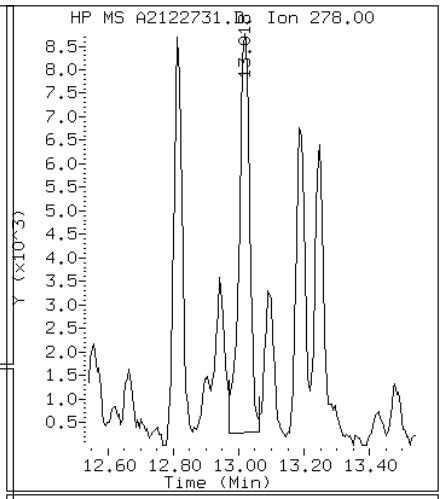
23 Dibenzo(a,h)anthracene

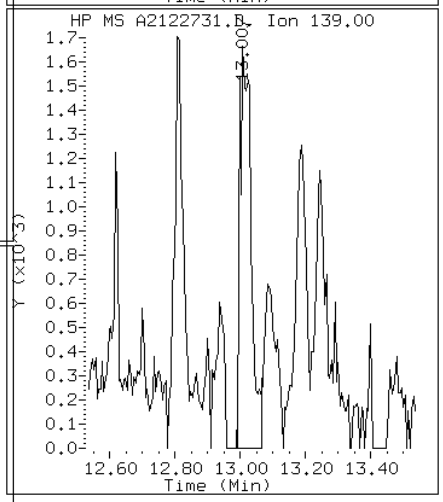












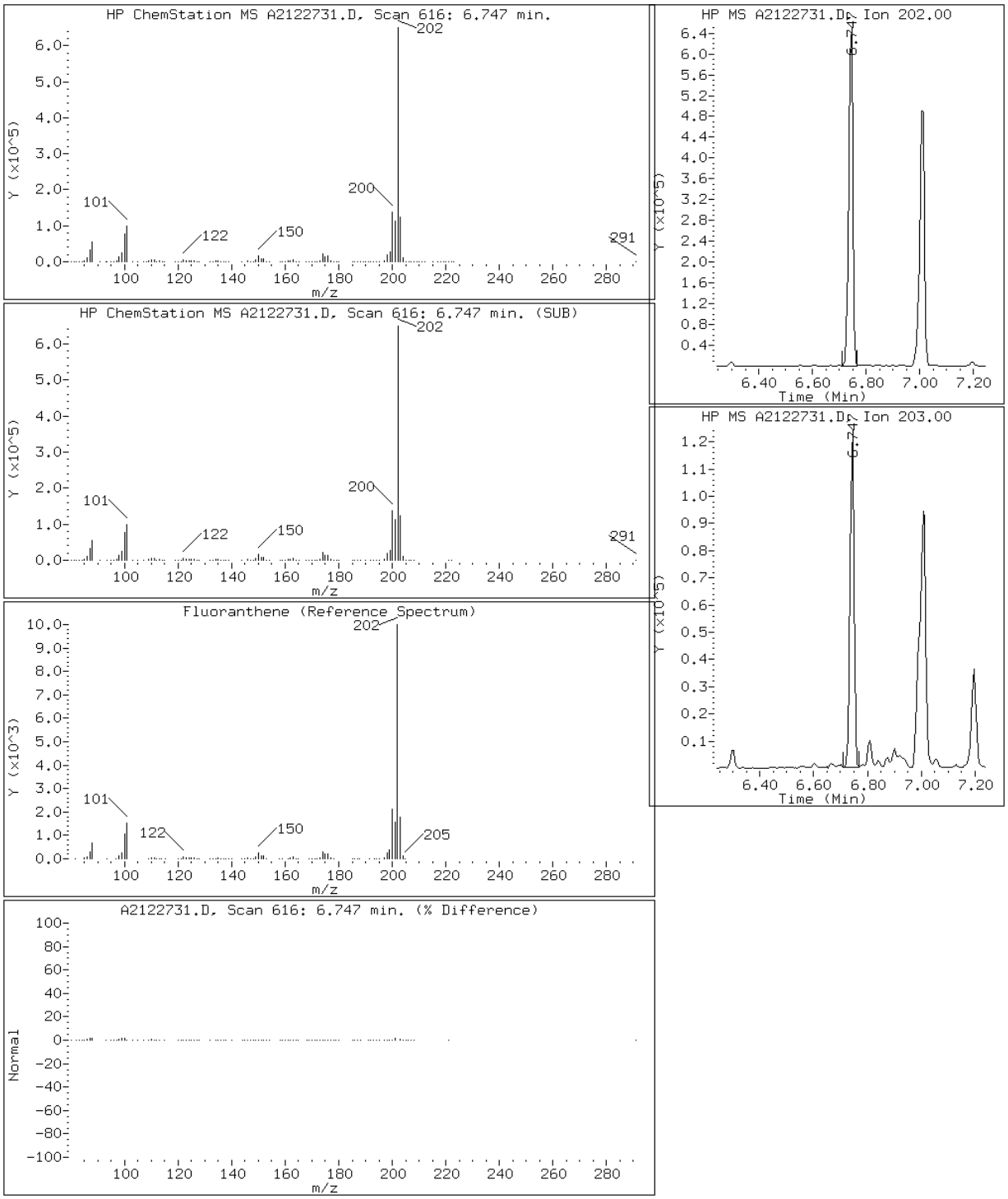
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

13 Fluoranthene



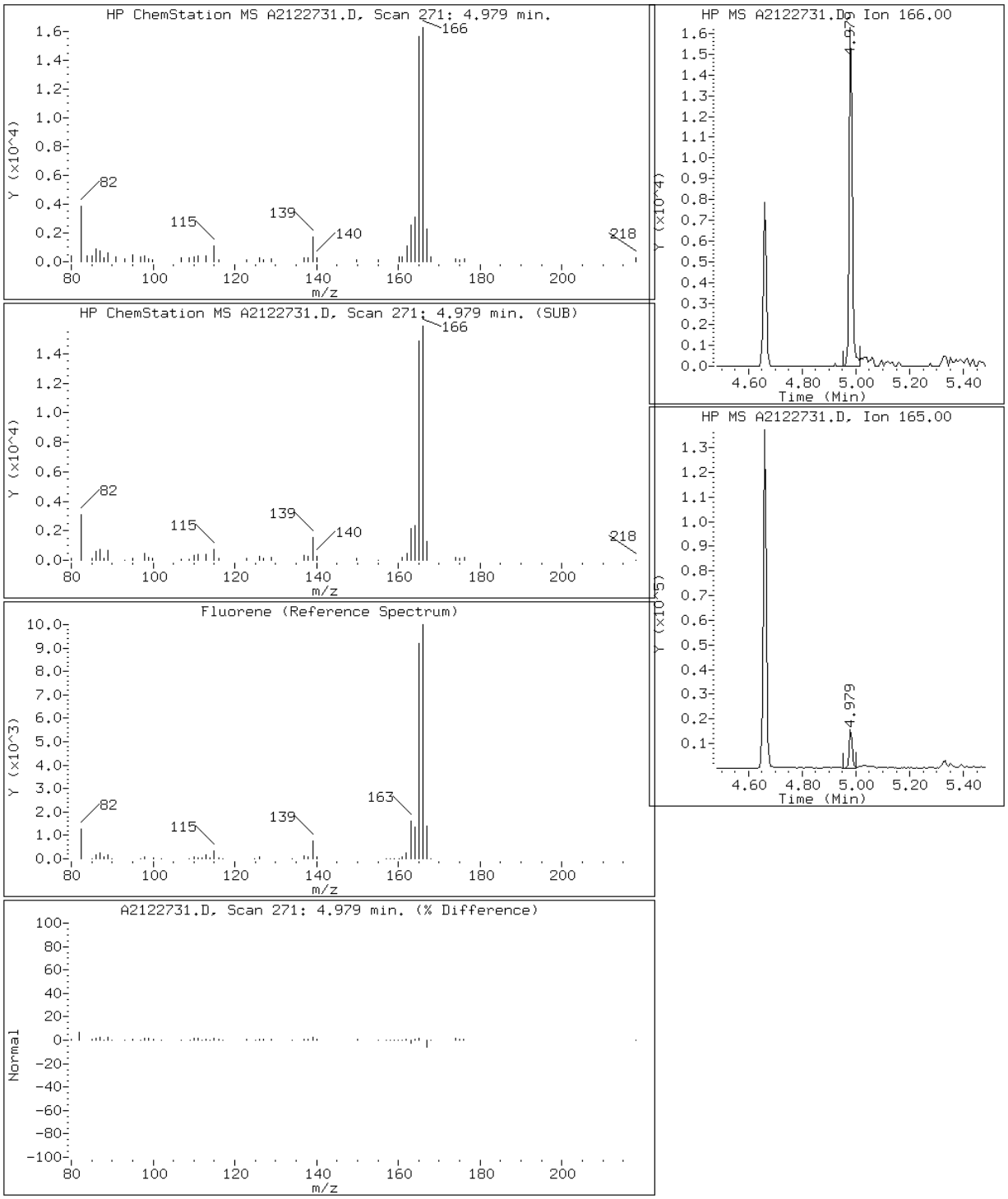
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

8 Fluorene



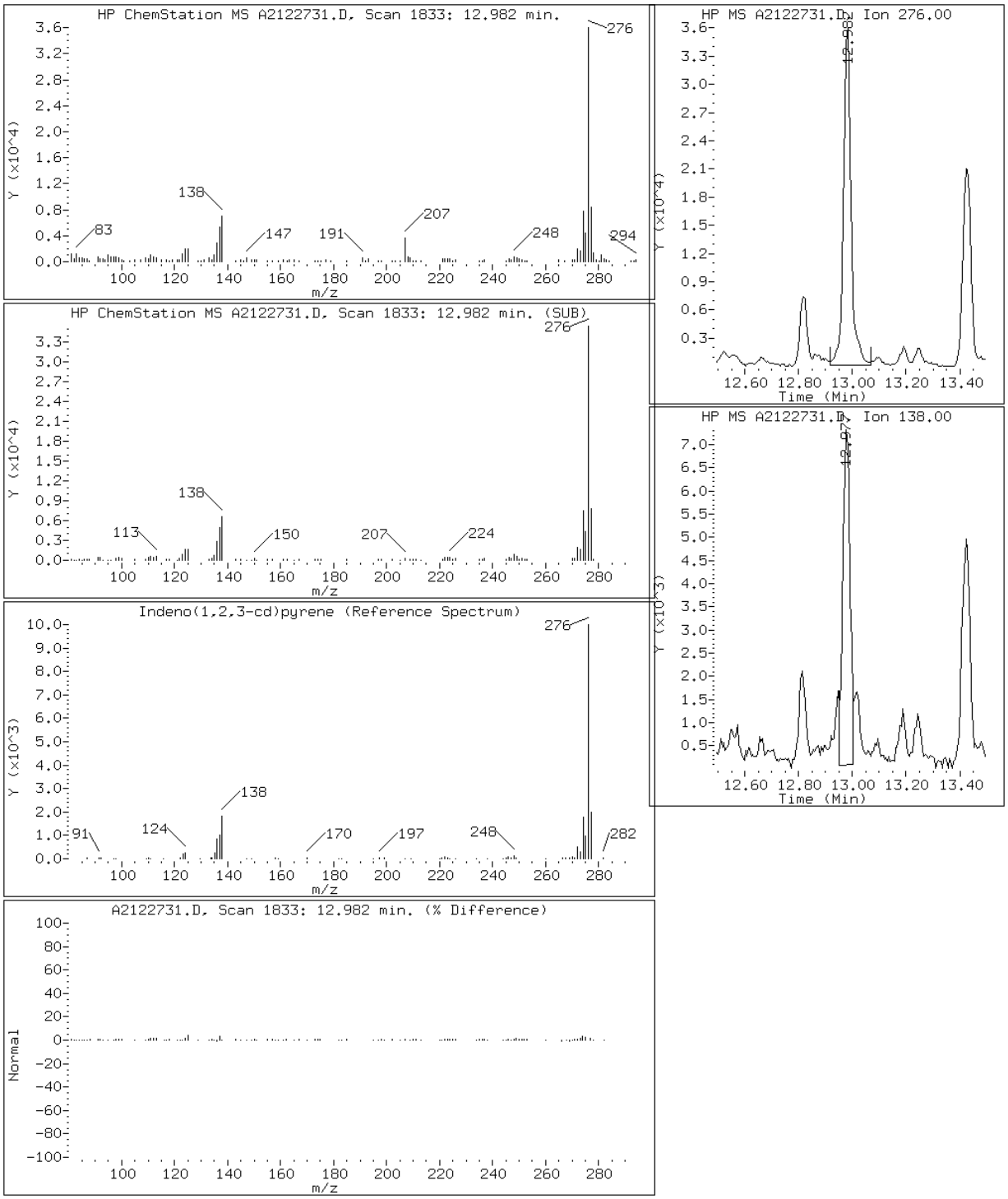
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

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



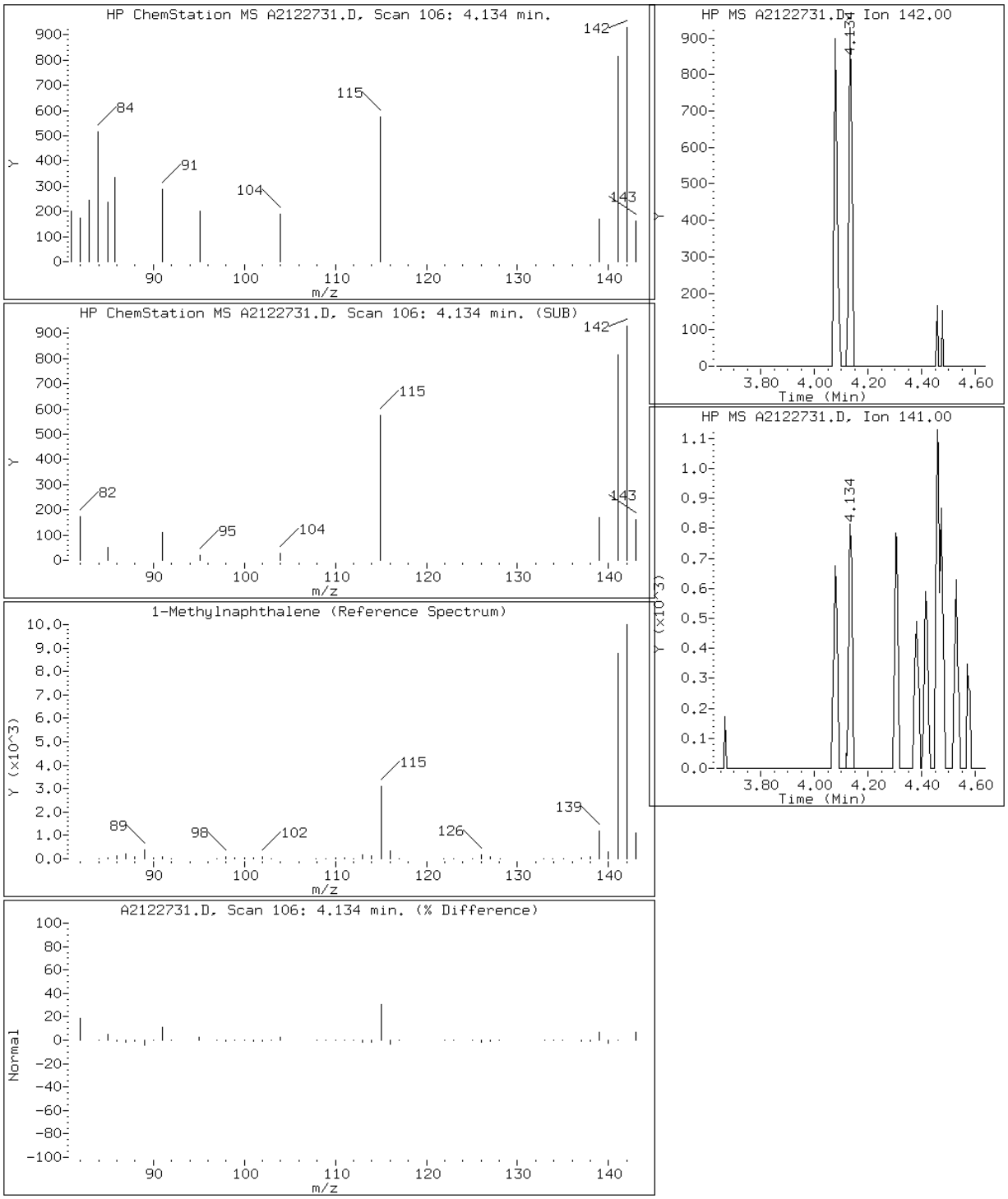
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

4 1-Methylnaphthalene



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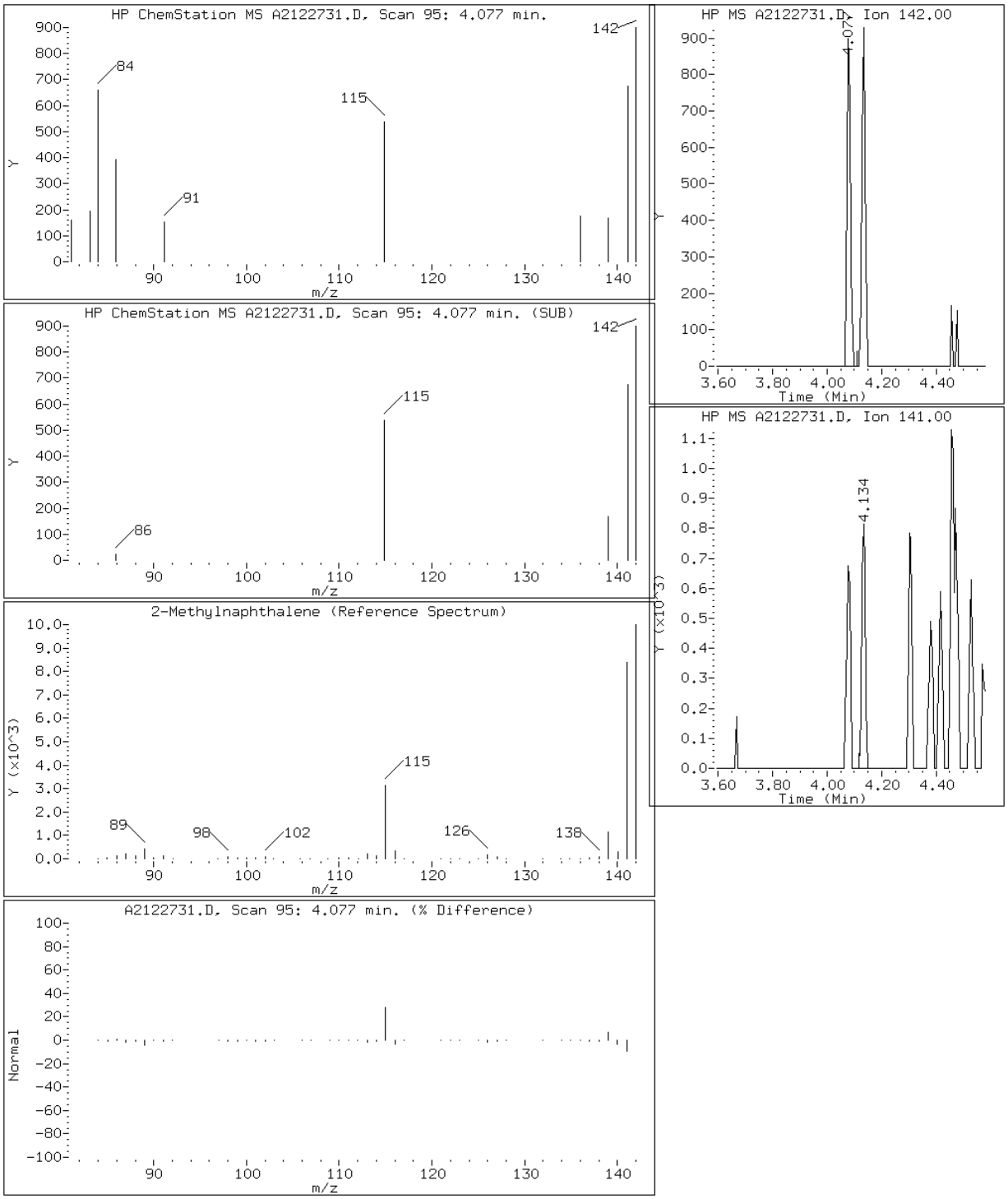
Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

3 2-Methylnaphthalene



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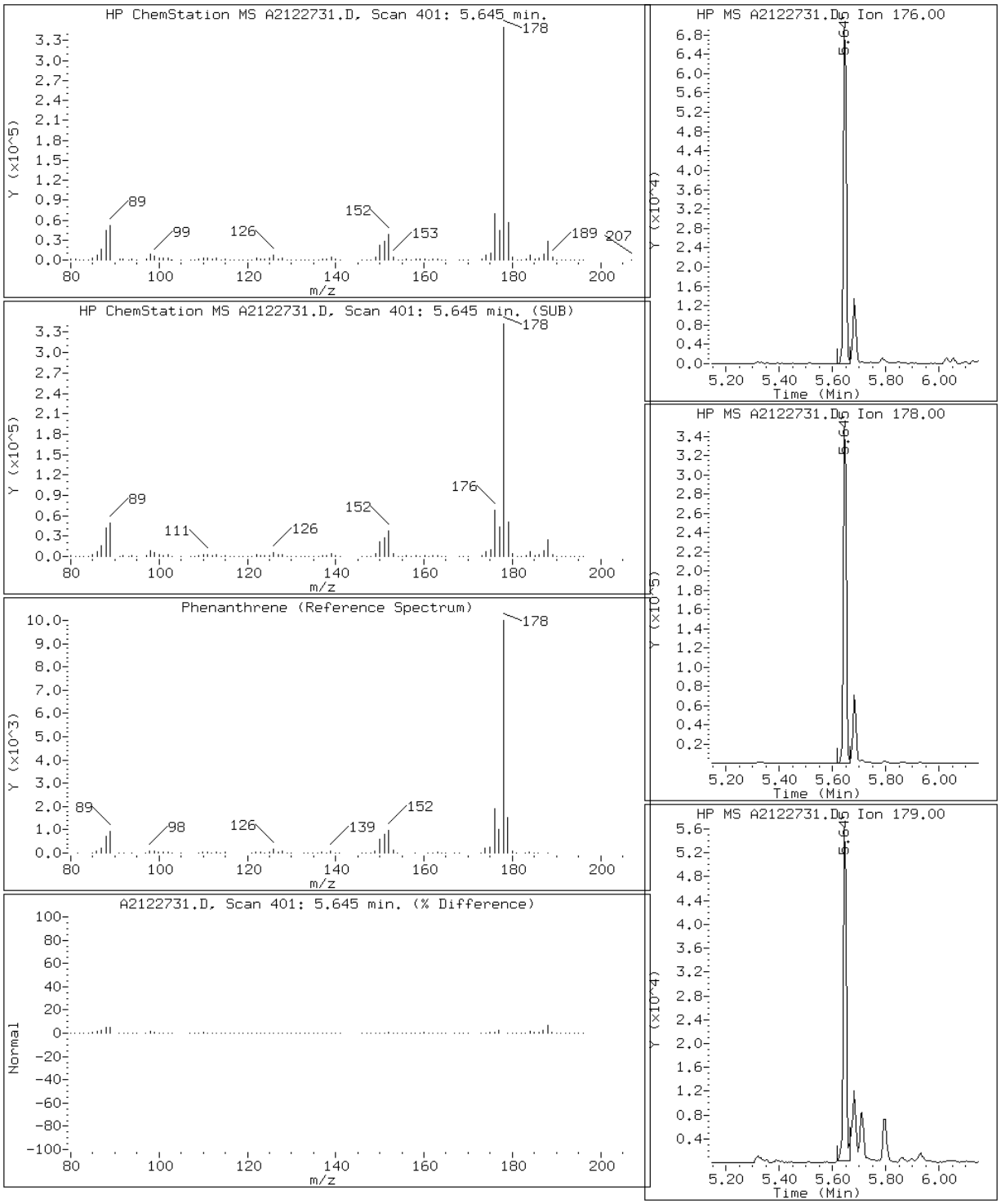
Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

10 Phenanthrene



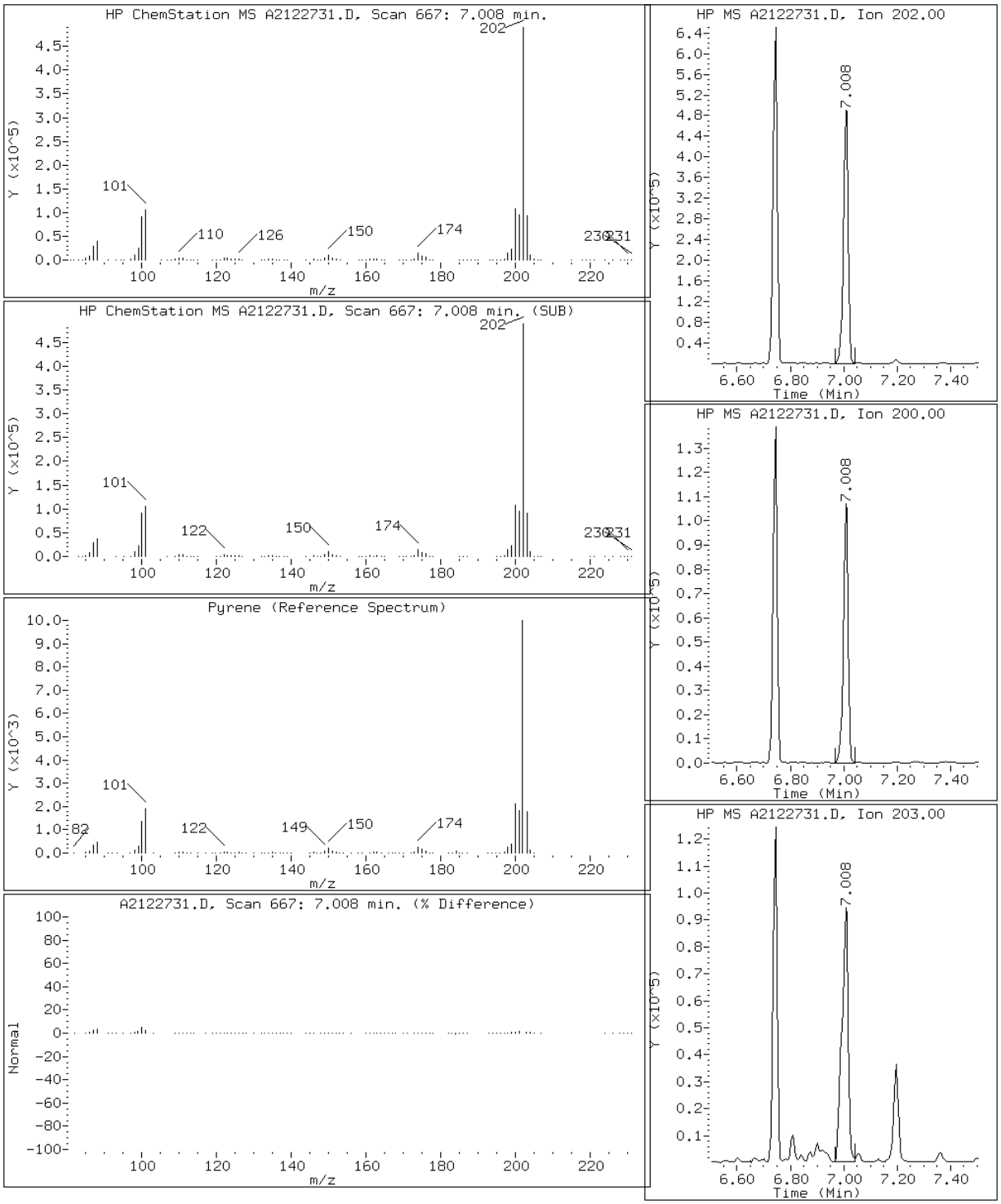
Data File: A2122731.D

Date: 27-DEC-2012 19:58

Client ID: CV0511X-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-57-A~98123~25~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511Y-CS | Lab Sample ID: 680-85785-58

Matrix: Solid | Lab File ID: A2122720.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 15:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.27(g) | Date Analyzed: 12/27/2012 13:39

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 5

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

% Moisture: 32.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	270		49	4.2
208-96-8	Acenaphthylene	27	J	49	3.9
120-12-7	Anthracene	490		49	4.8
56-55-3	Benzo[a]anthracene	2200	B	49	4.5
50-32-8	Benzo[a]pyrene	2400	B	49	5.0
205-99-2	Benzo[b]fluoranthene	3700	B	49	6.9
191-24-2	Benzo[g,h,i]perylene	560	B	49	8.0
207-08-9	Benzo[k]fluoranthene	1600	B	49	4.7
218-01-9	Chrysene	2300	B	49	5.5
53-70-3	Dibenz(a,h)anthracene	220	B	49	4.7
206-44-0	Fluoranthene	4300	B	49	4.4
86-73-7	Fluorene	200		49	3.8
193-39-5	Indeno[1,2,3-cd]pyrene	810	B	49	8.0
90-12-0	1-Methylnaphthalene	30	J	49	3.9
91-57-6	2-Methylnaphthalene	38	J	49	3.8
91-20-3	Naphthalene	35	J	49	3.8
85-01-8	Phenanthrene	2400		49	3.2
129-00-0	Pyrene	3600	B	49	3.8

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\TSMA5973.i\1A121227.b\A2122720.D
Lab Smp Id: 680-85785-A-58-A Client Smp ID: CV0511Y-CS
Inj Date : 27-DEC-2012 13:39
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-58-A~98123~5~8270D/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: 15
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.270	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	3.706	3.705	(1.000)	1451644	40.0000		
2 Naphthalene	128	3.717	3.720	(1.003)	5897	0.14423	24(a)	
3 2-Methylnaphthalene	142	4.075	4.079	(1.100)	4069	0.15747	26(a)	
4 1-Methylnaphthalene	142	4.132	4.135	(1.115)	3329	0.12449	20(a)	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	776975	40.0000		
6 Acenaphthylene	152	4.583	4.581	(0.984)	4623	0.11102	18(a)	
7 Acenaphthene	153	4.680	4.678	(1.004)	28658	1.12611	190	
8 Fluorene	166	4.982	4.980	(1.069)	23756	0.81254	130	
* 9 Phenanthrene-d10	188	5.633	5.631	(1.000)	1220981	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	76441	9.79366	1600	
11 Anthracene	178	5.684	5.687	(1.009)	83361	1.99812	330	
$ 12 o-Terphenyl	230	5.904	5.903	(1.048)	17641	0.68366	110	
13 Fluoranthene	202	6.745	6.743	(1.197)	855876	17.6570	2900	
* 14 Chrysene-d12	240	8.743	8.736	(1.000)	1431706	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	7.011	7.004	(0.802)	731353	14.9880	2500	
16 Benzo(a)anthracene	226	8.717	8.700	(0.997)	118731	9.18792	1500	
17 Chrysene	228	8.774	8.772	(1.004)	420812	9.48366	1600	
* 18 Perylene-d12	264	11.238	11.241	(1.000)	1032907	40.0000		
19 Benzo(b)fluoranthene	252	10.557	10.544	(0.939)	489277	15.3602	2500	
20 Benzo(k)fluoranthene	252	10.598	10.596	(0.943)	210123	6.45888	1100	
21 Benzo(a)pyrene	252	11.115	11.113	(0.989)	283129	9.83728	1600	
22 Indeno(1,2,3-cd)pyrene	276	12.990	12.993	(1.156)	96522	3.32771	550	
23 Dibenzo(a,h)anthracene	278	13.026	13.039	(1.159)	26118	0.88879	150	
24 Benzo(g,h,i)perylene	276	13.436	13.444	(1.196)	66326	2.30815	380	

QC Flag Legend

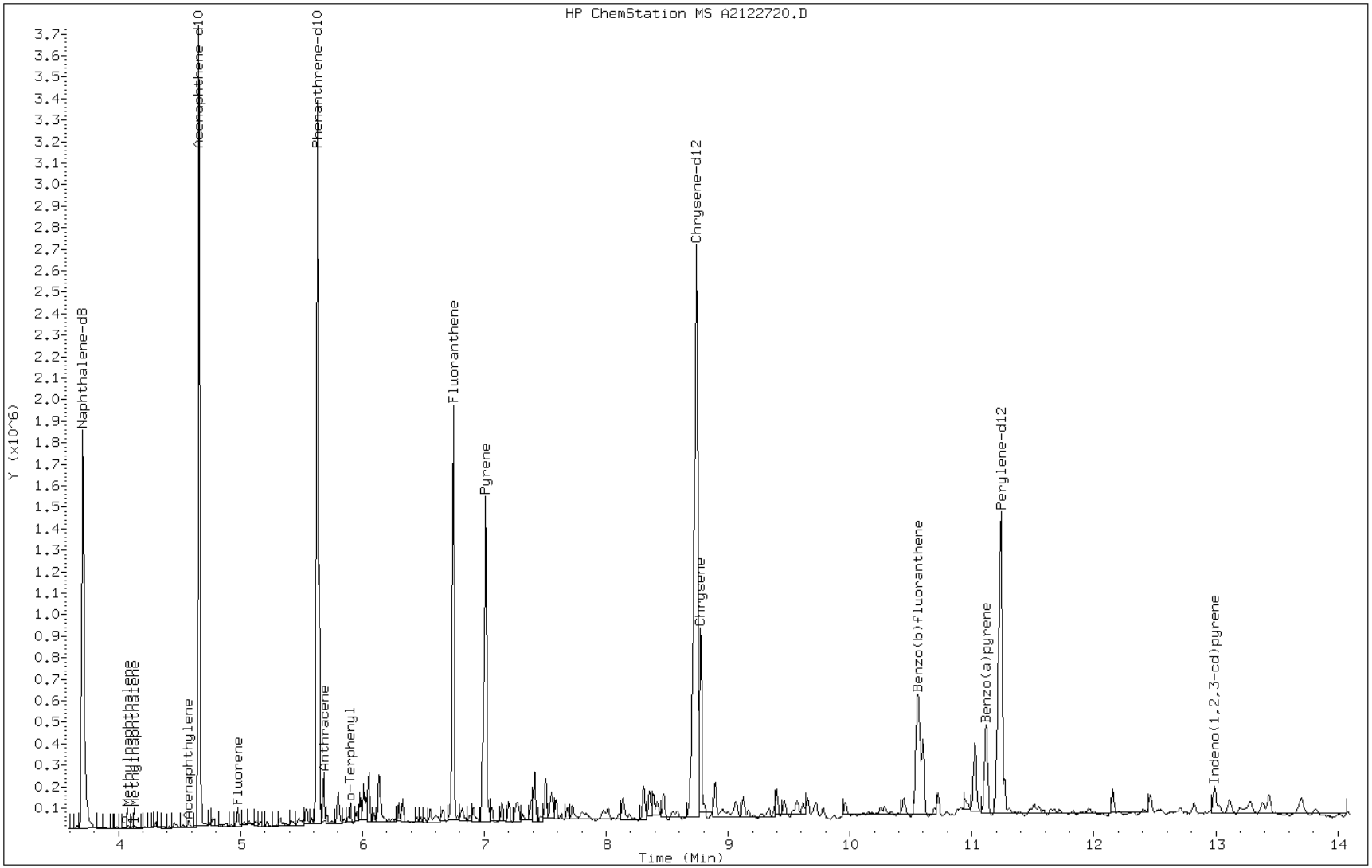
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW



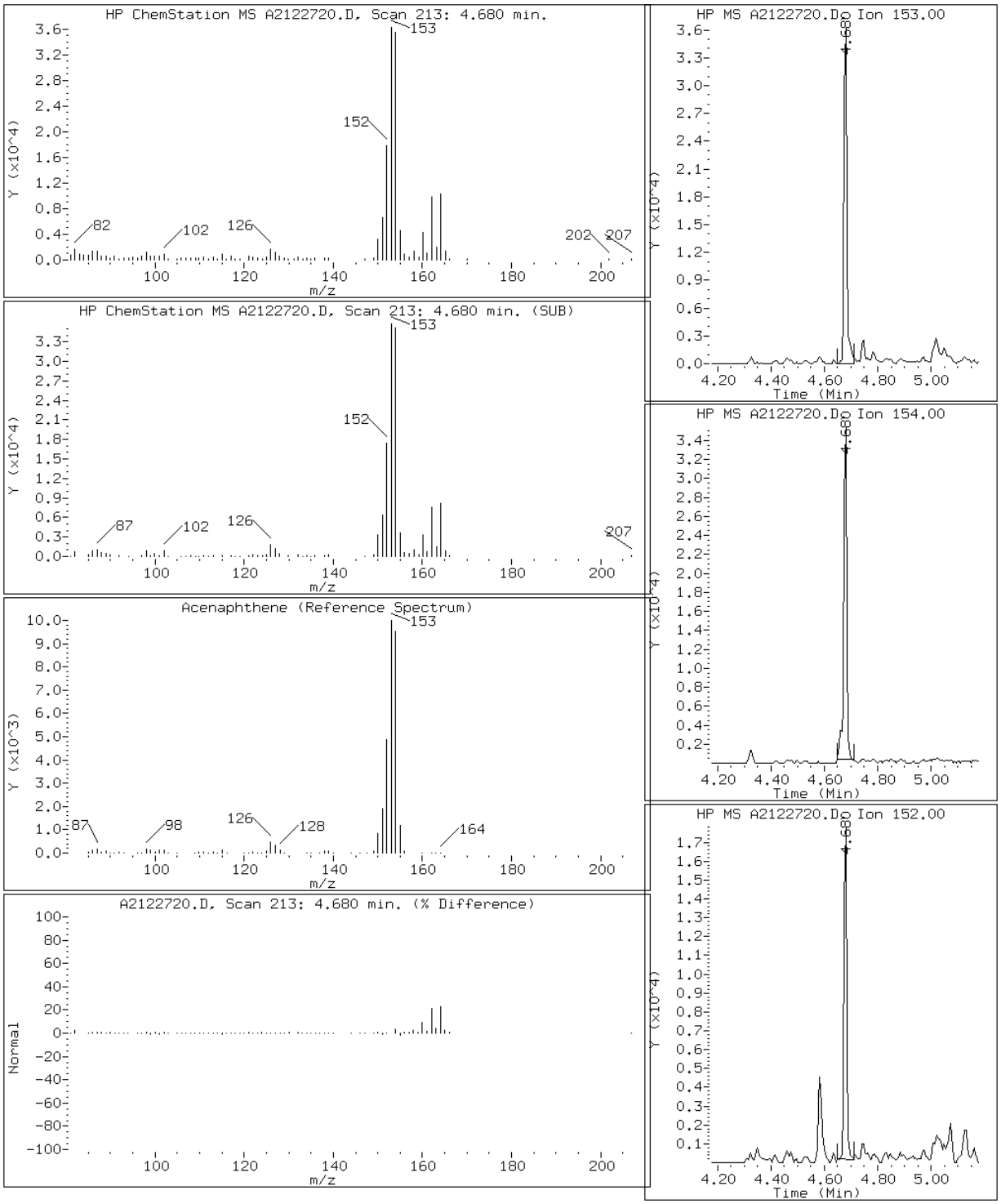
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

7 Acenaphthene



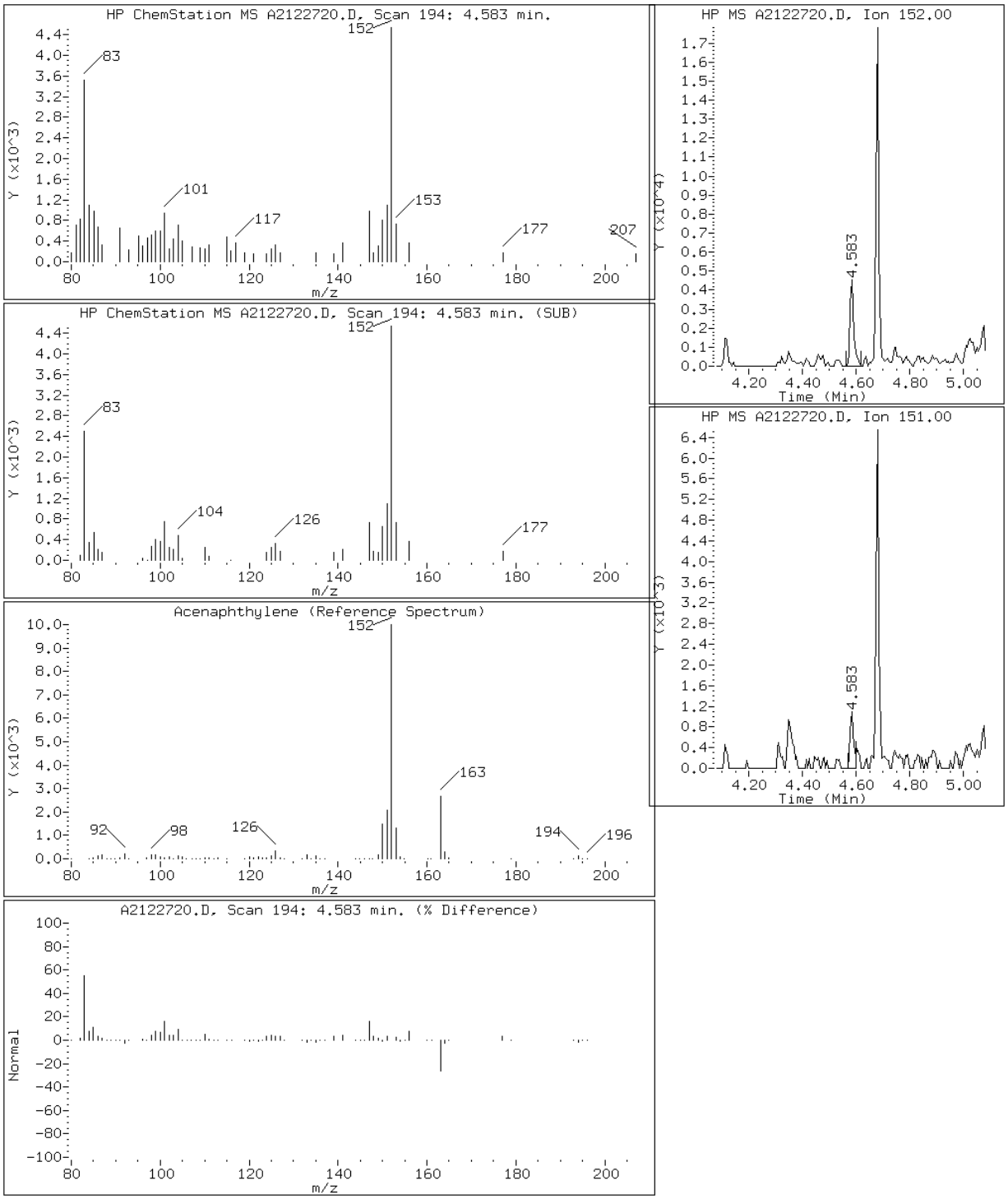
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

6 Acenaphthylene



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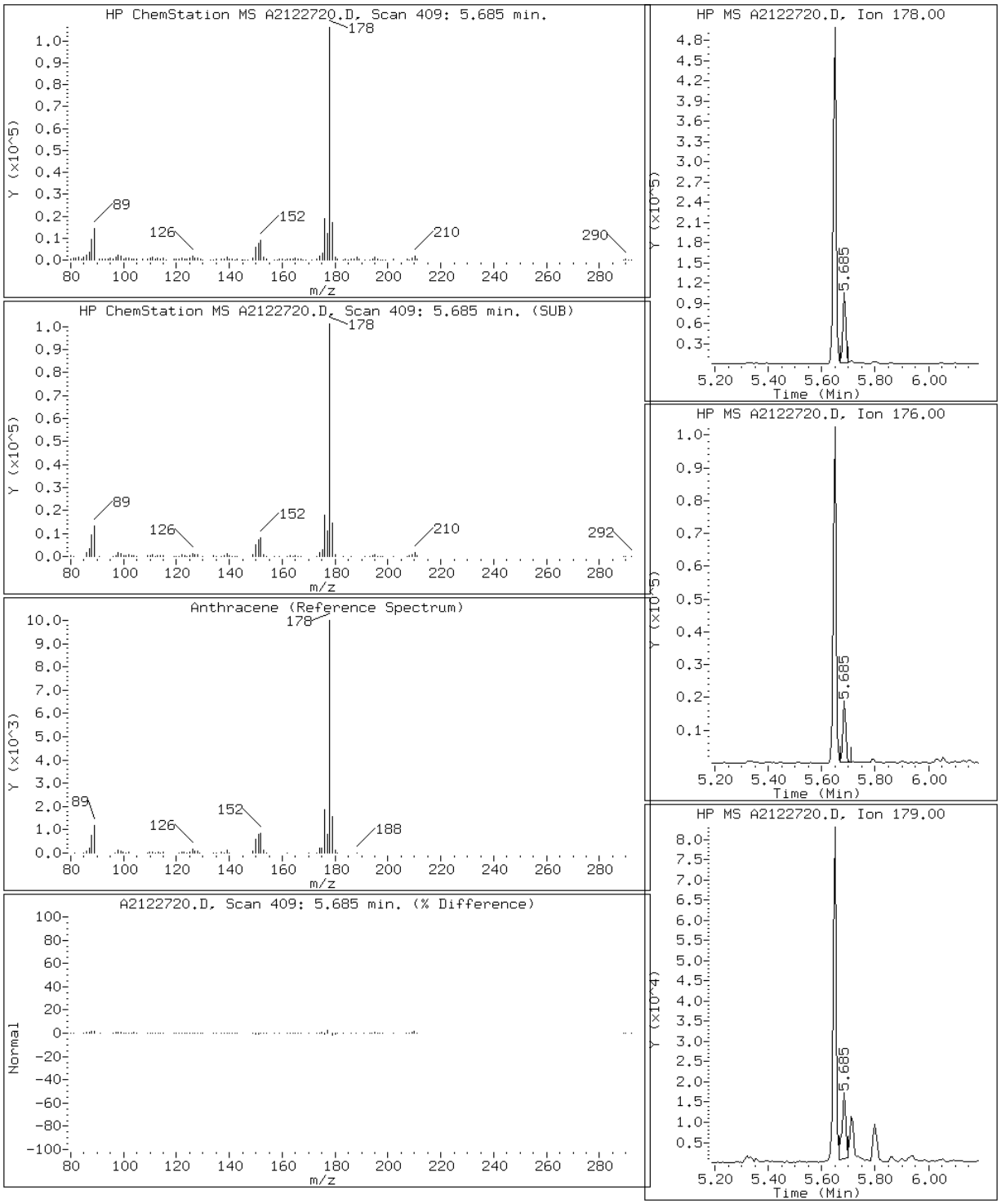
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

11 Anthracene



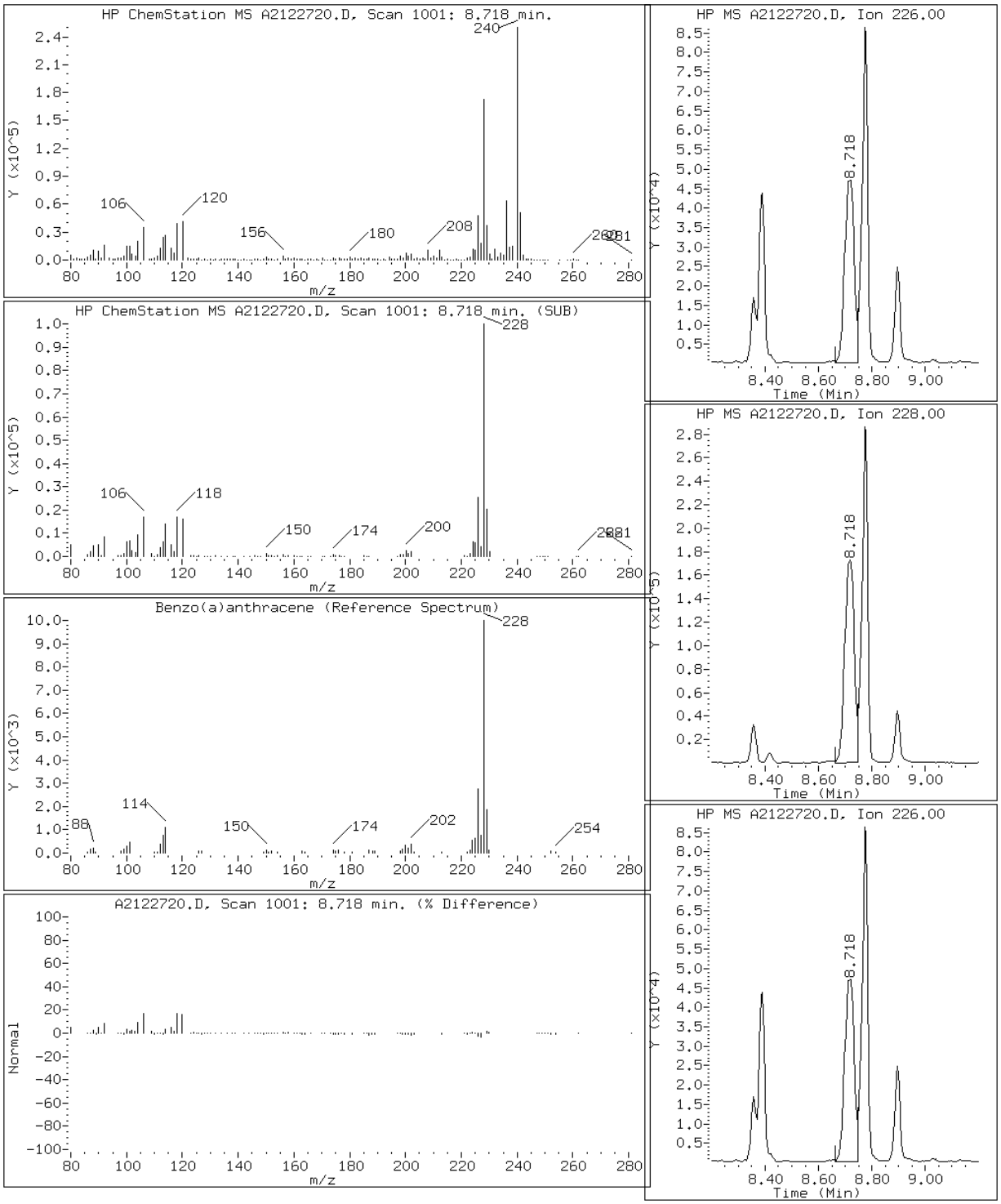
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

16 Benzo(a)anthracene



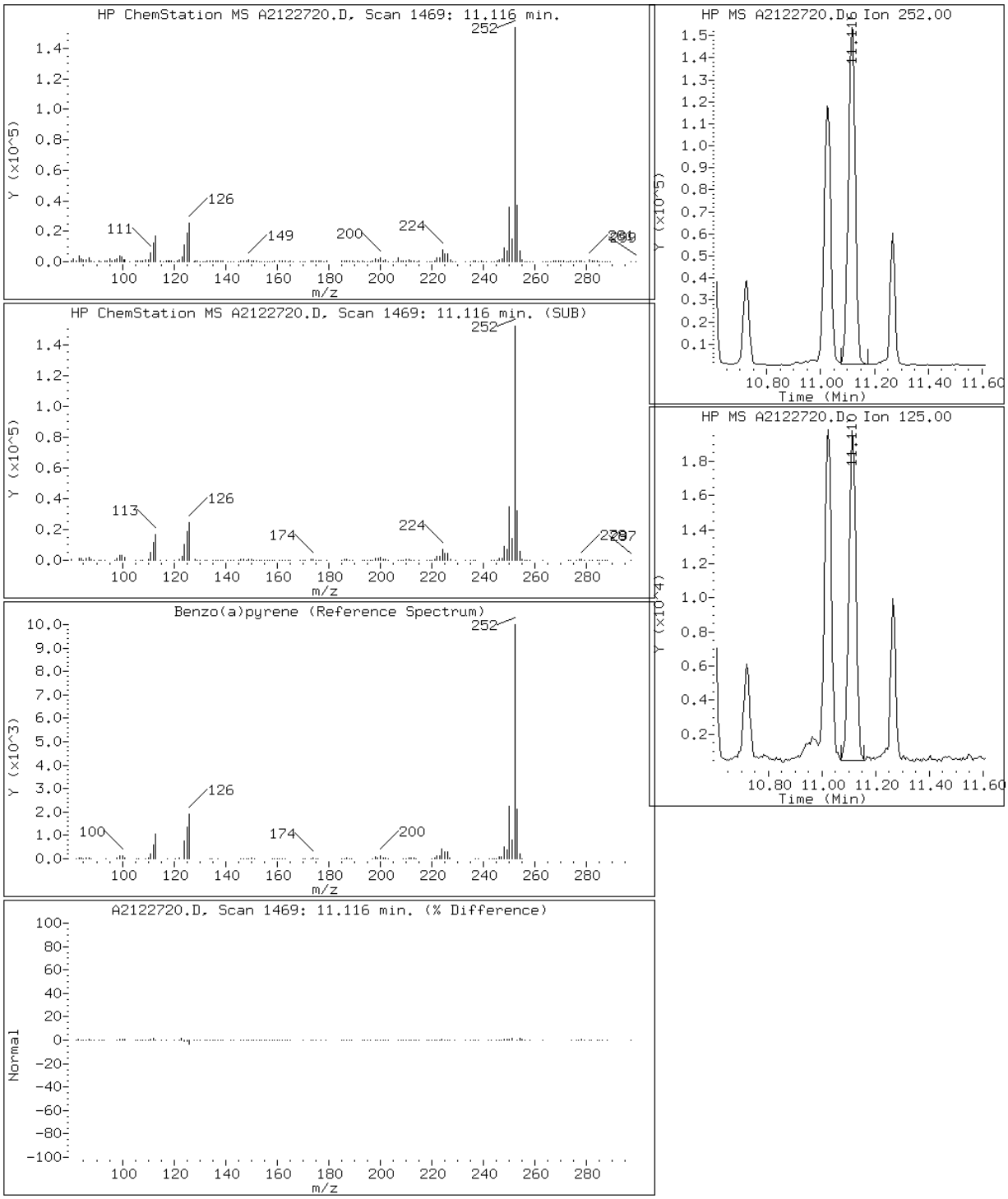
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

21 Benzo(a)pyrene



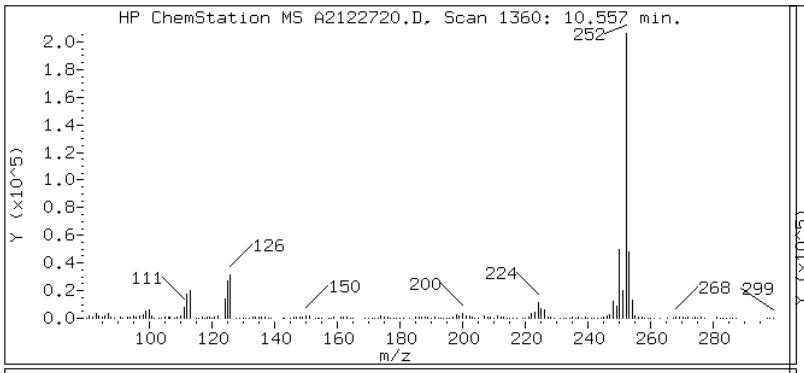
Data File: A2122720.D

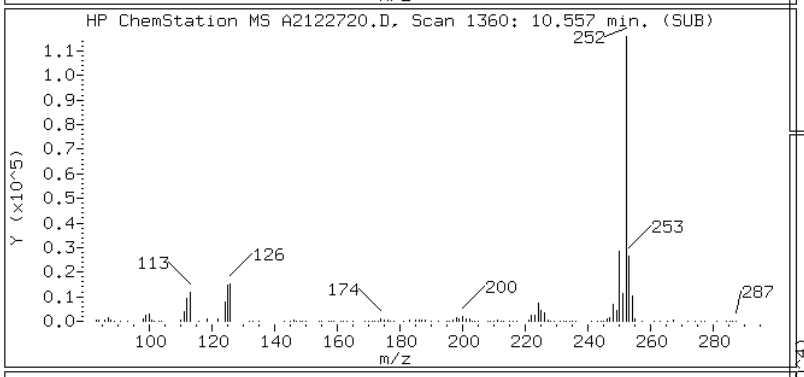
Date: 27-DEC-2012 13:39

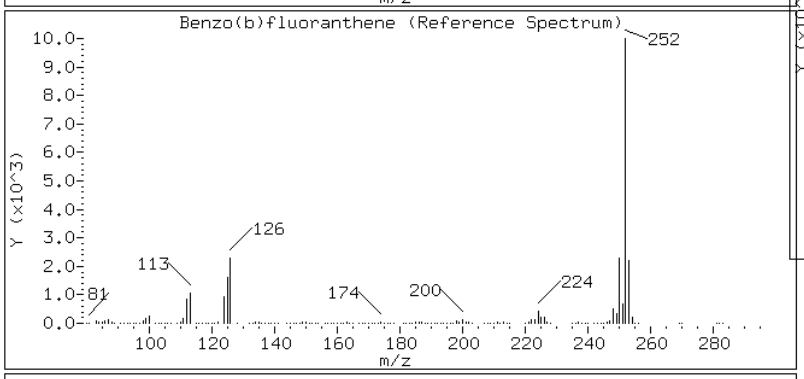
Client ID: CV0511Y-CS Instrument: TSMA5973.i

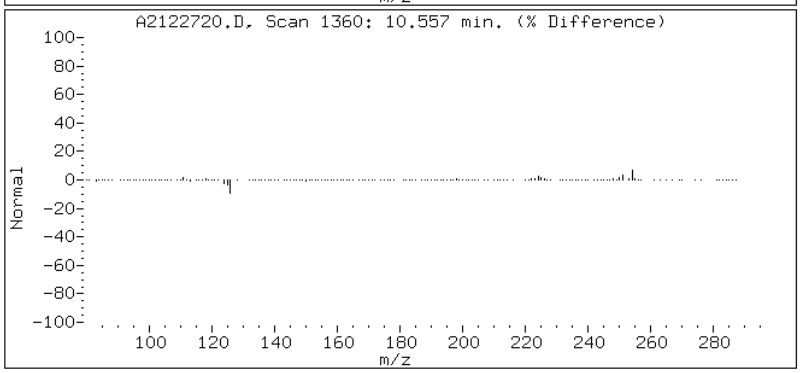
Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

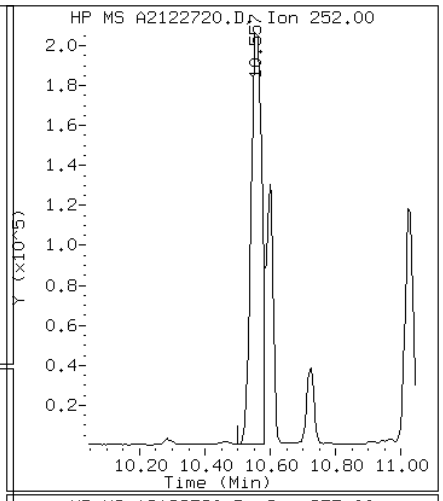
19 Benzo(b)fluoranthene

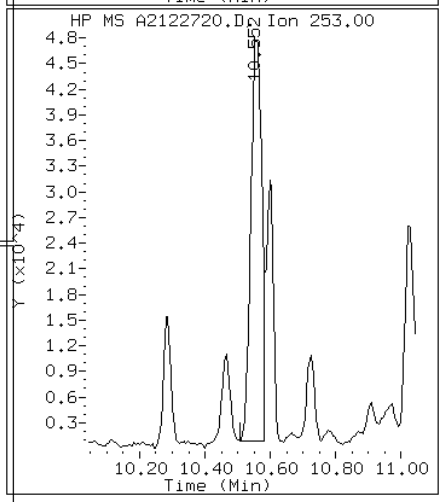












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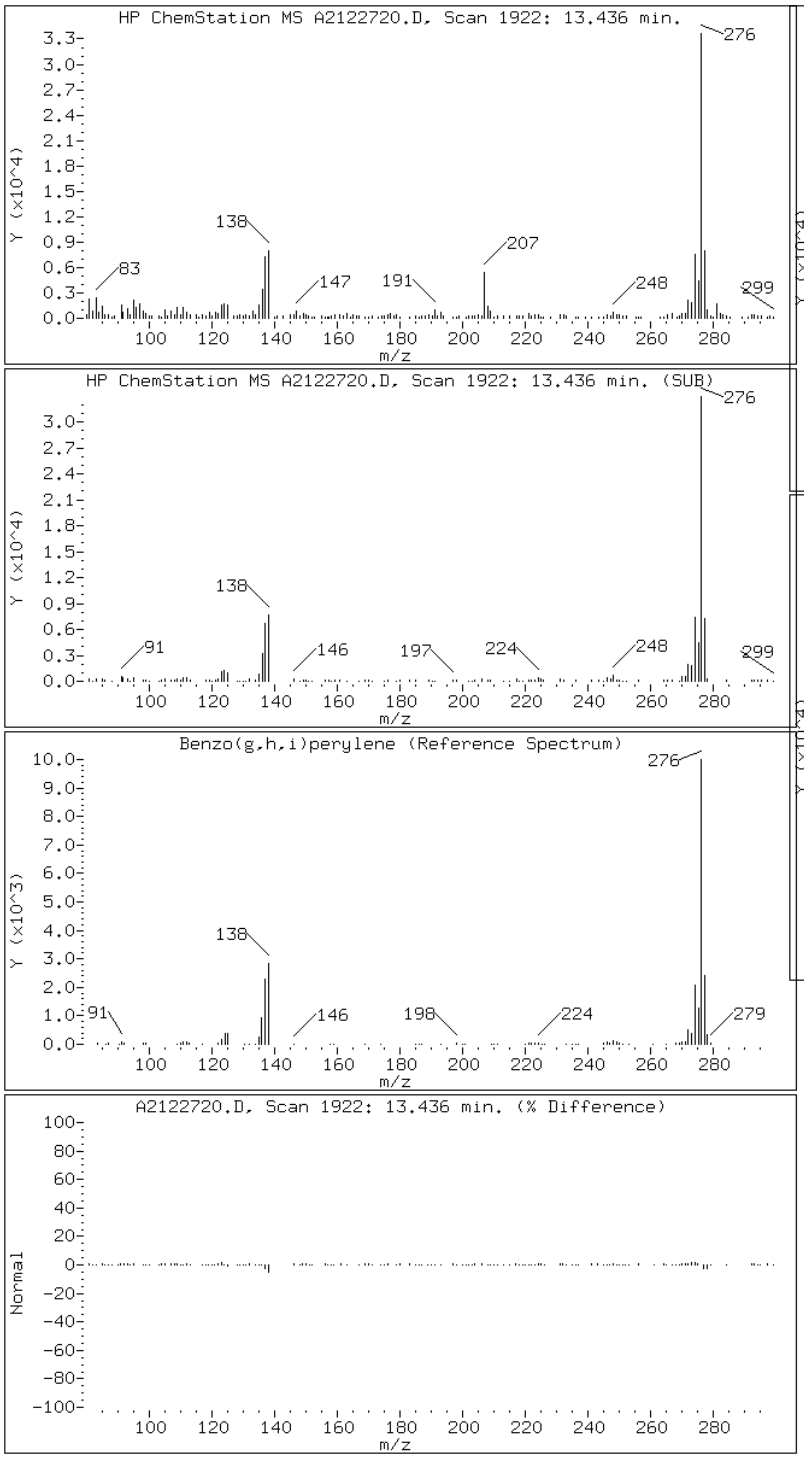
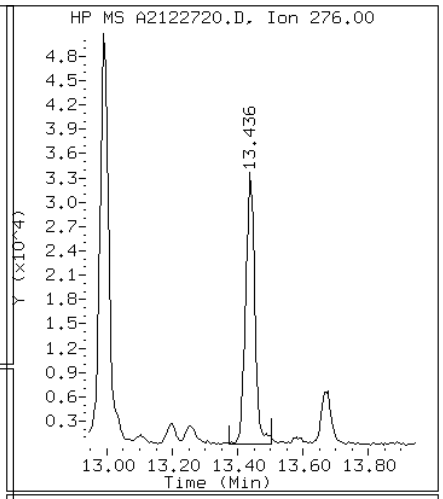
Date: 27-DEC-2012 13:39

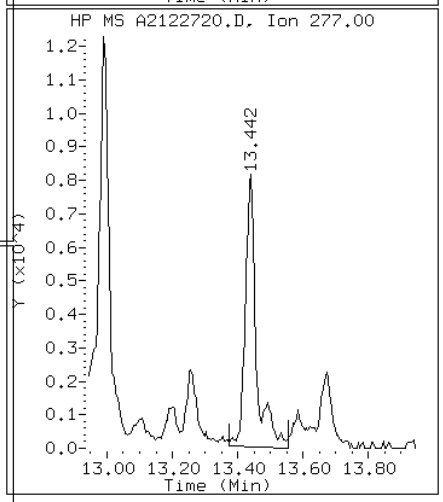
Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







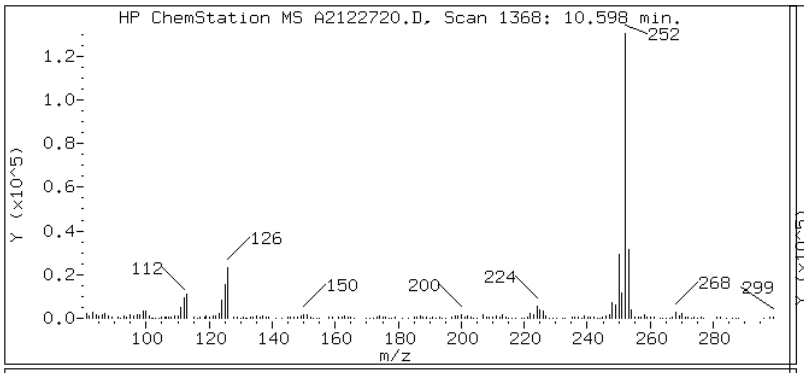
Data File: A2122720.D

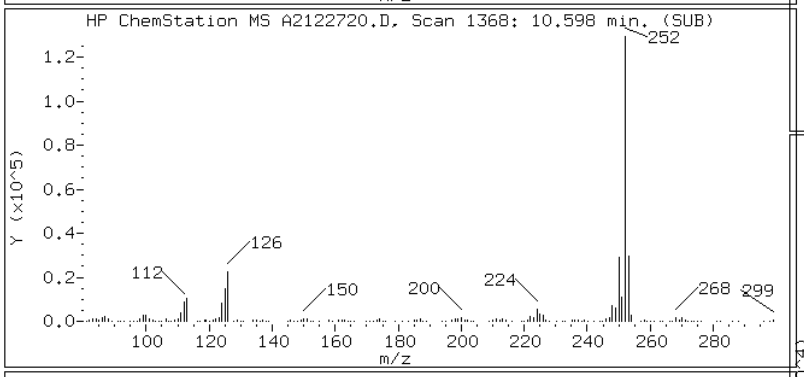
Date: 27-DEC-2012 13:39

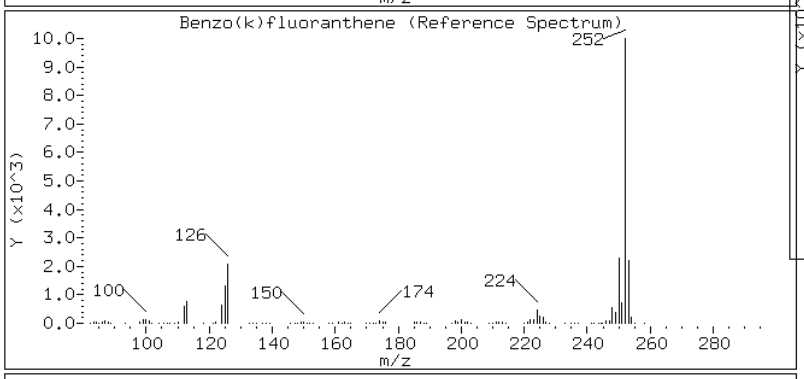
Client ID: CV0511Y-CS Instrument: TSMA5973.i

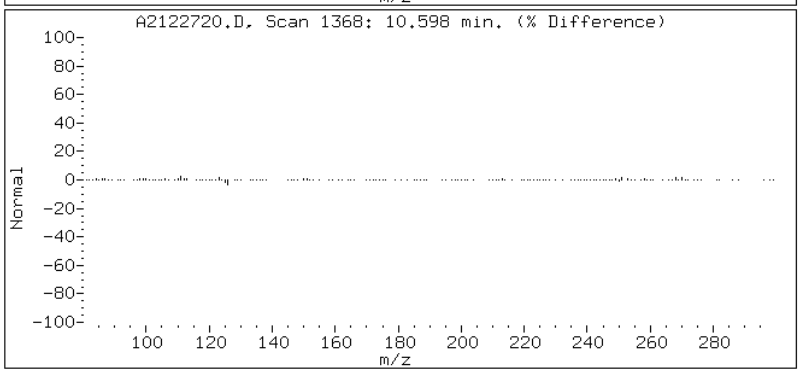
Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

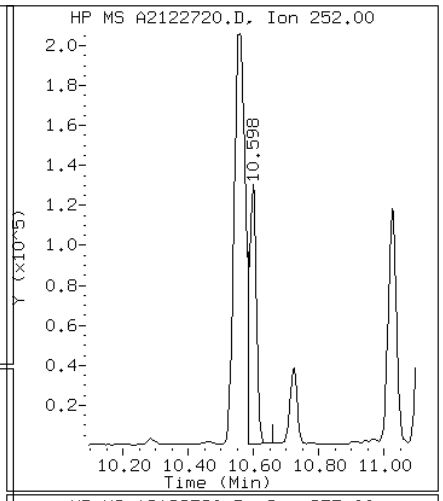
20 Benzo(k)fluoranthene

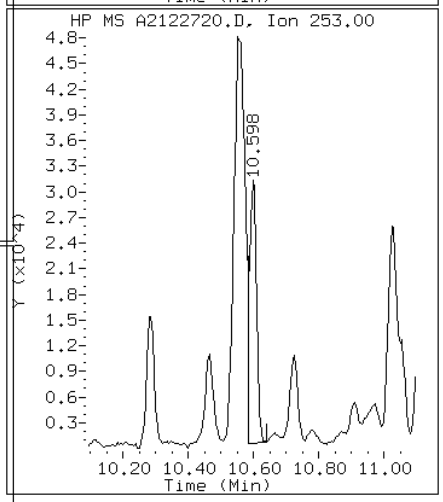












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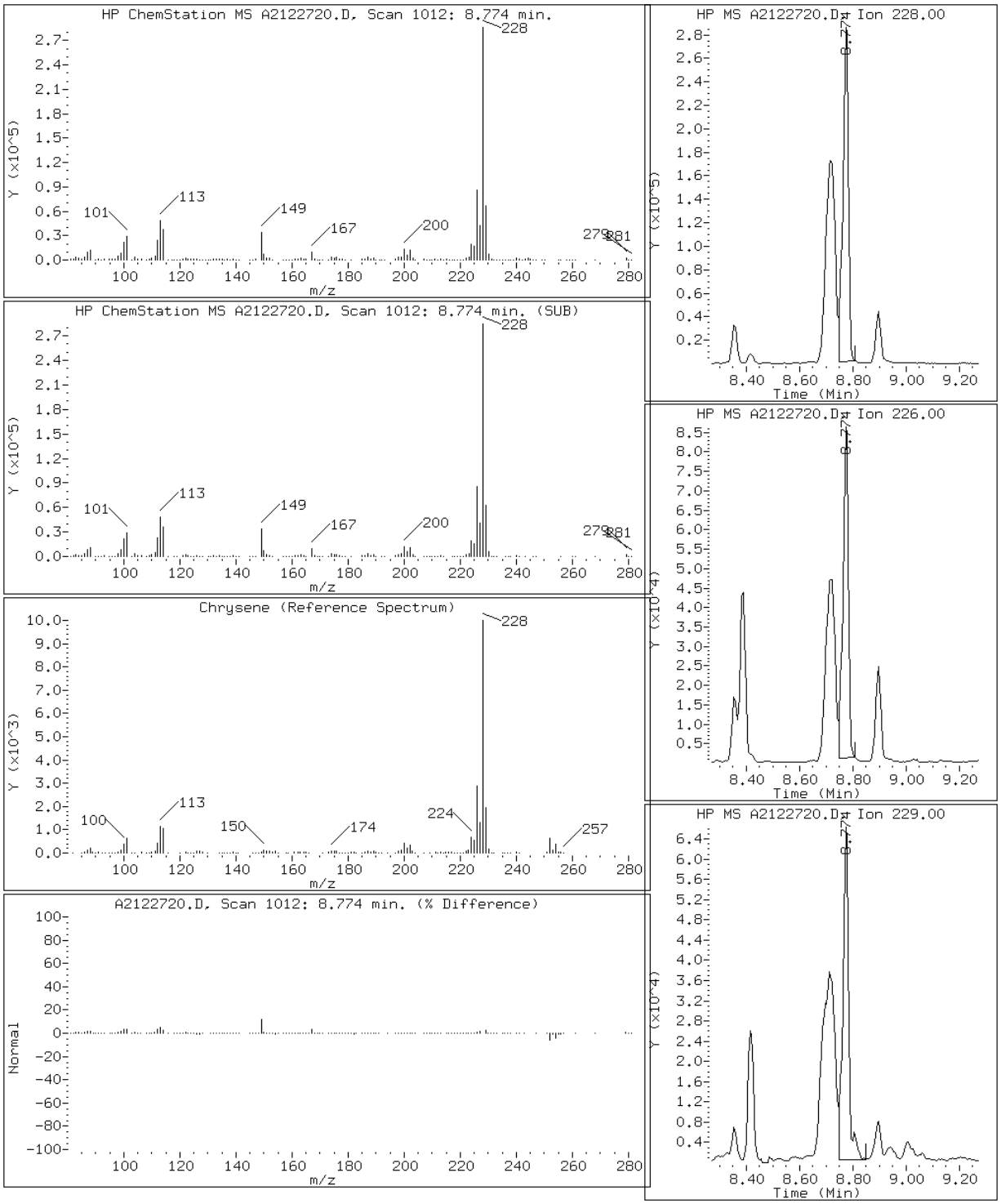
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

17 Chrysene



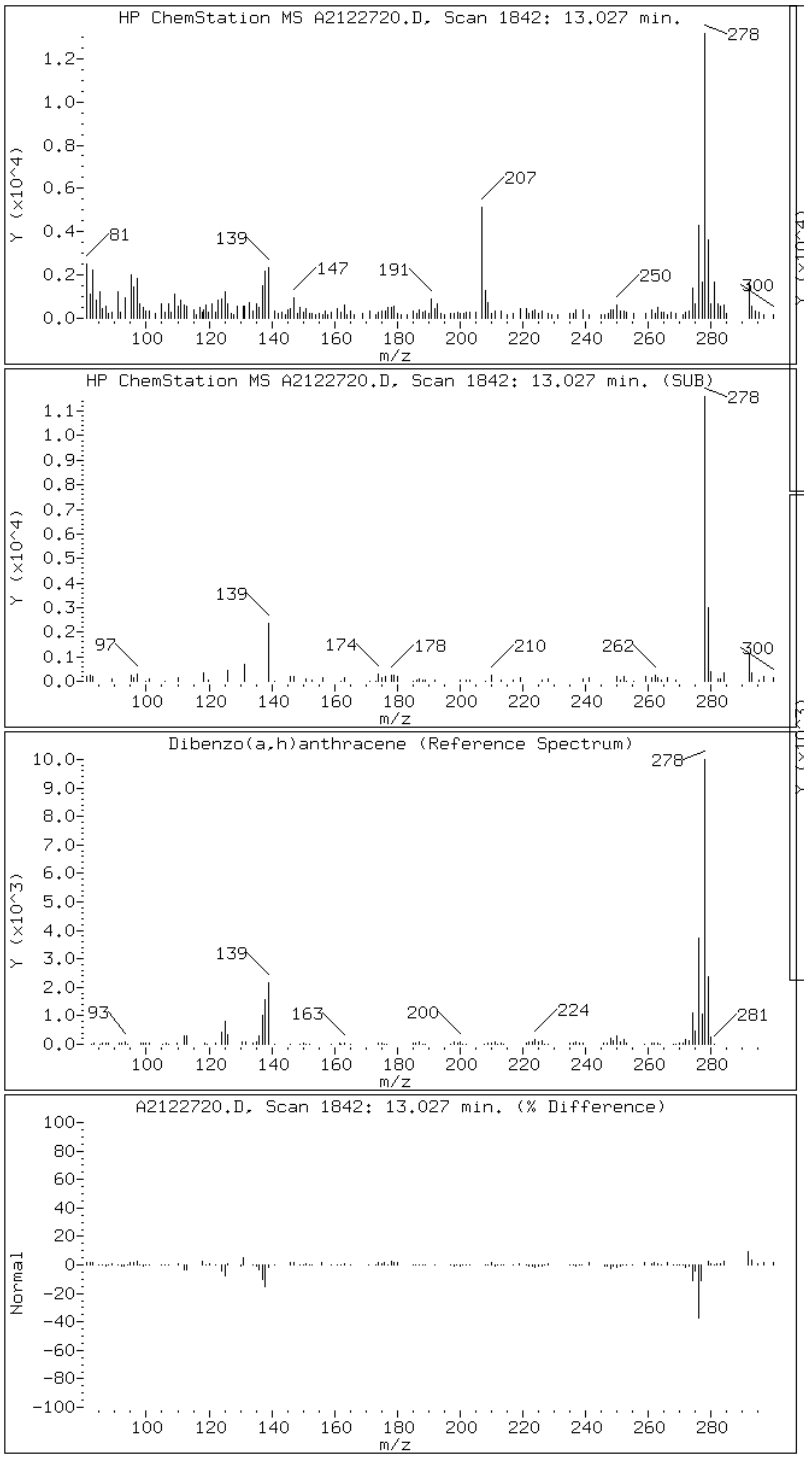
Data File: A2122720.D

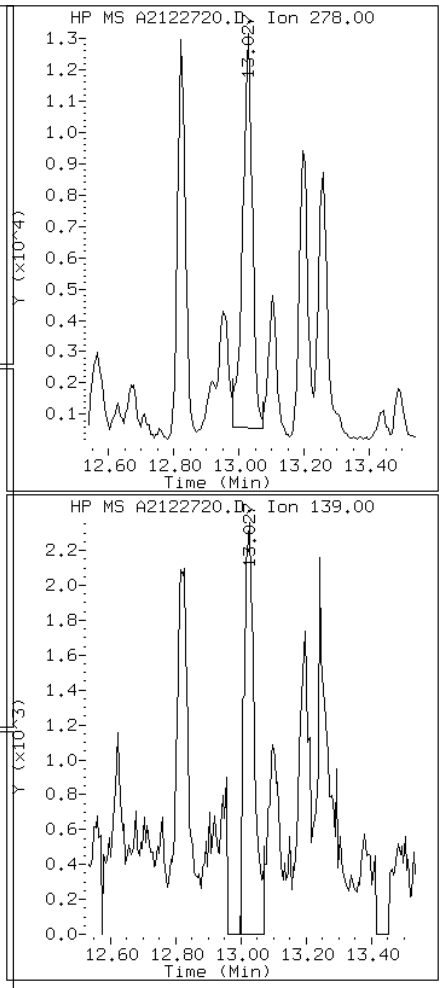
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene





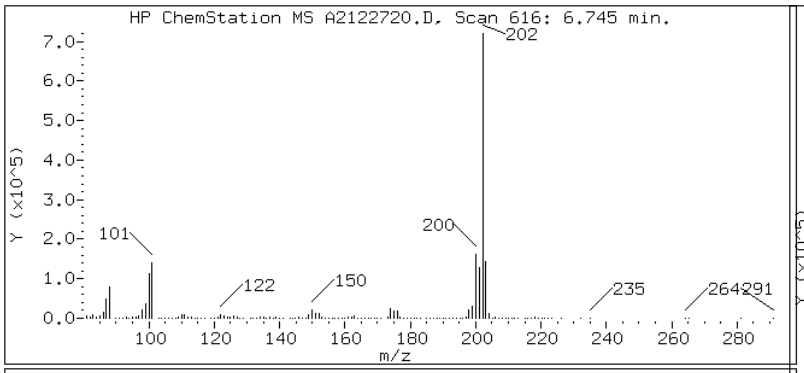
Data File: A2122720.D

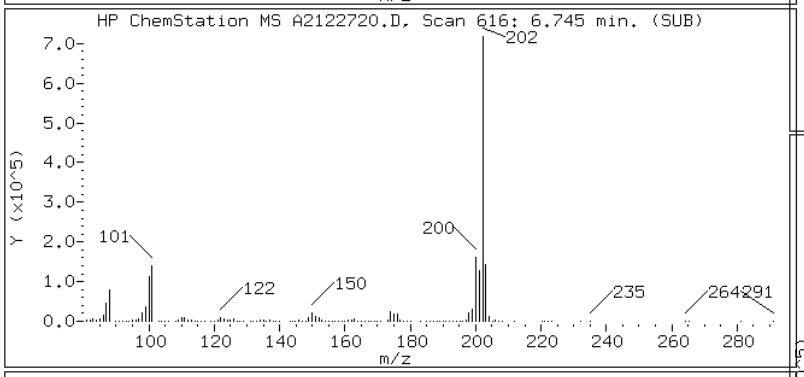
Date: 27-DEC-2012 13:39

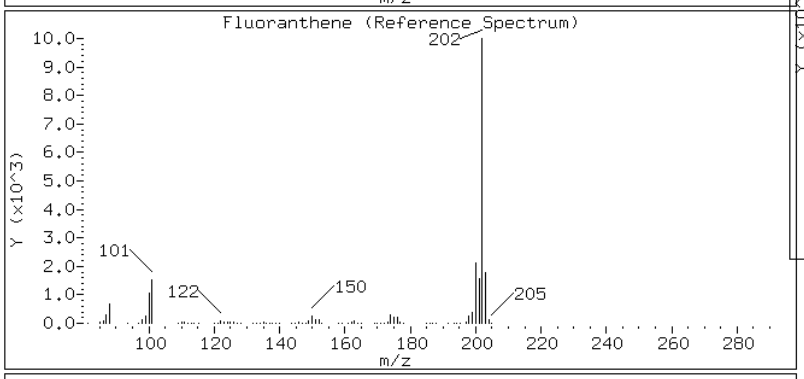
Client ID: CV0511Y-CS Instrument: TSMA5973.i

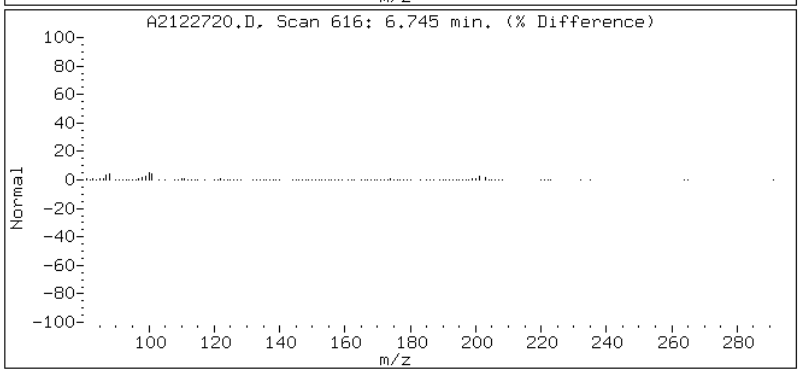
Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

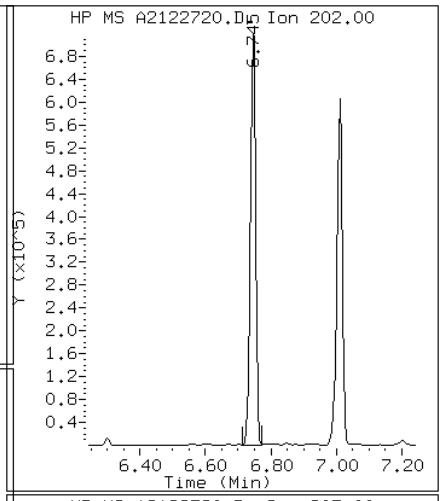
13 Fluoranthene

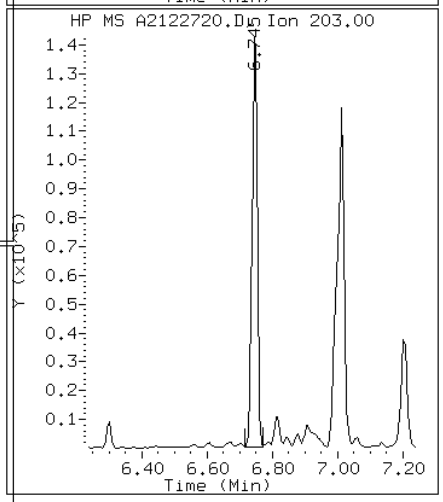












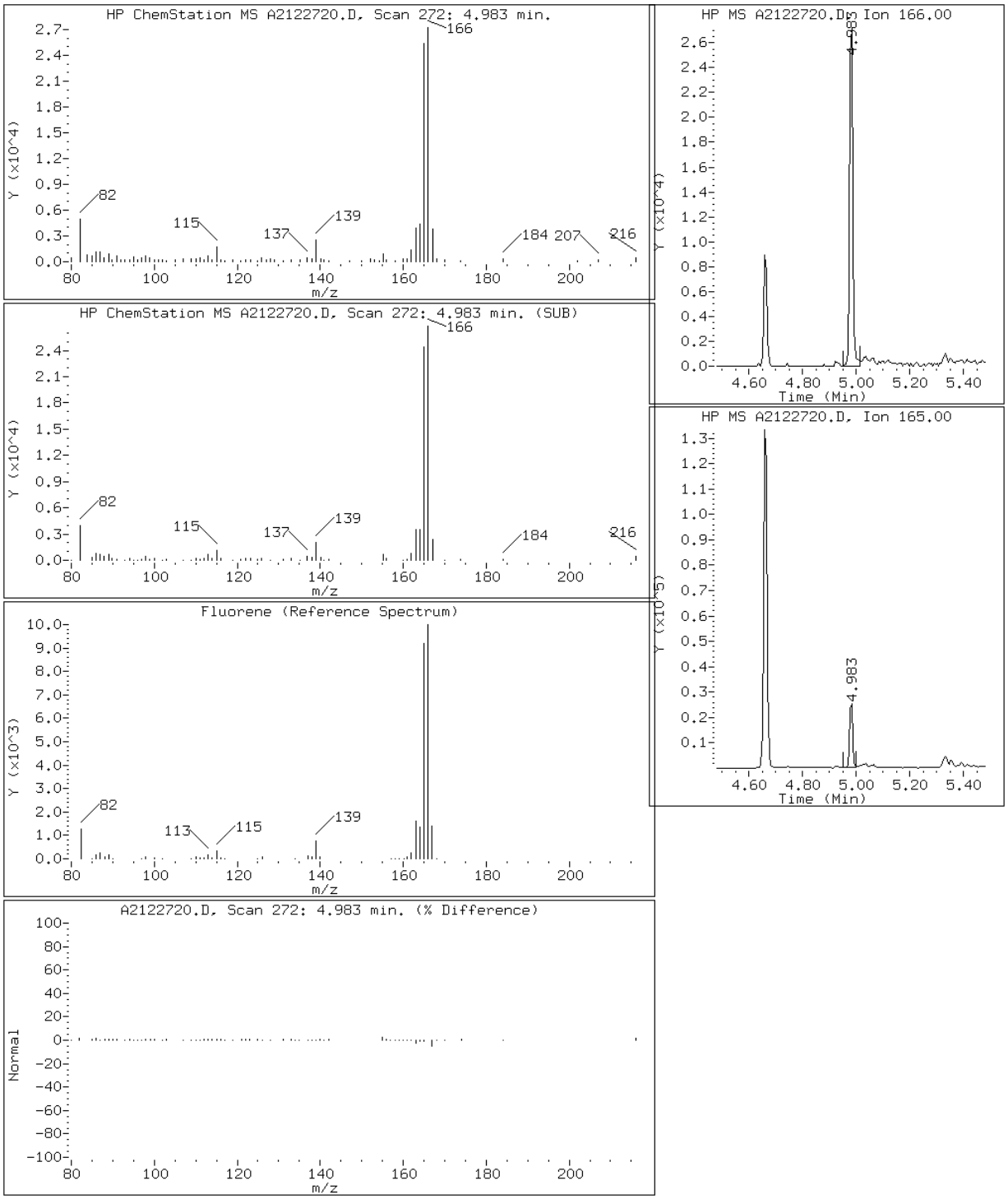
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

8 Fluorene



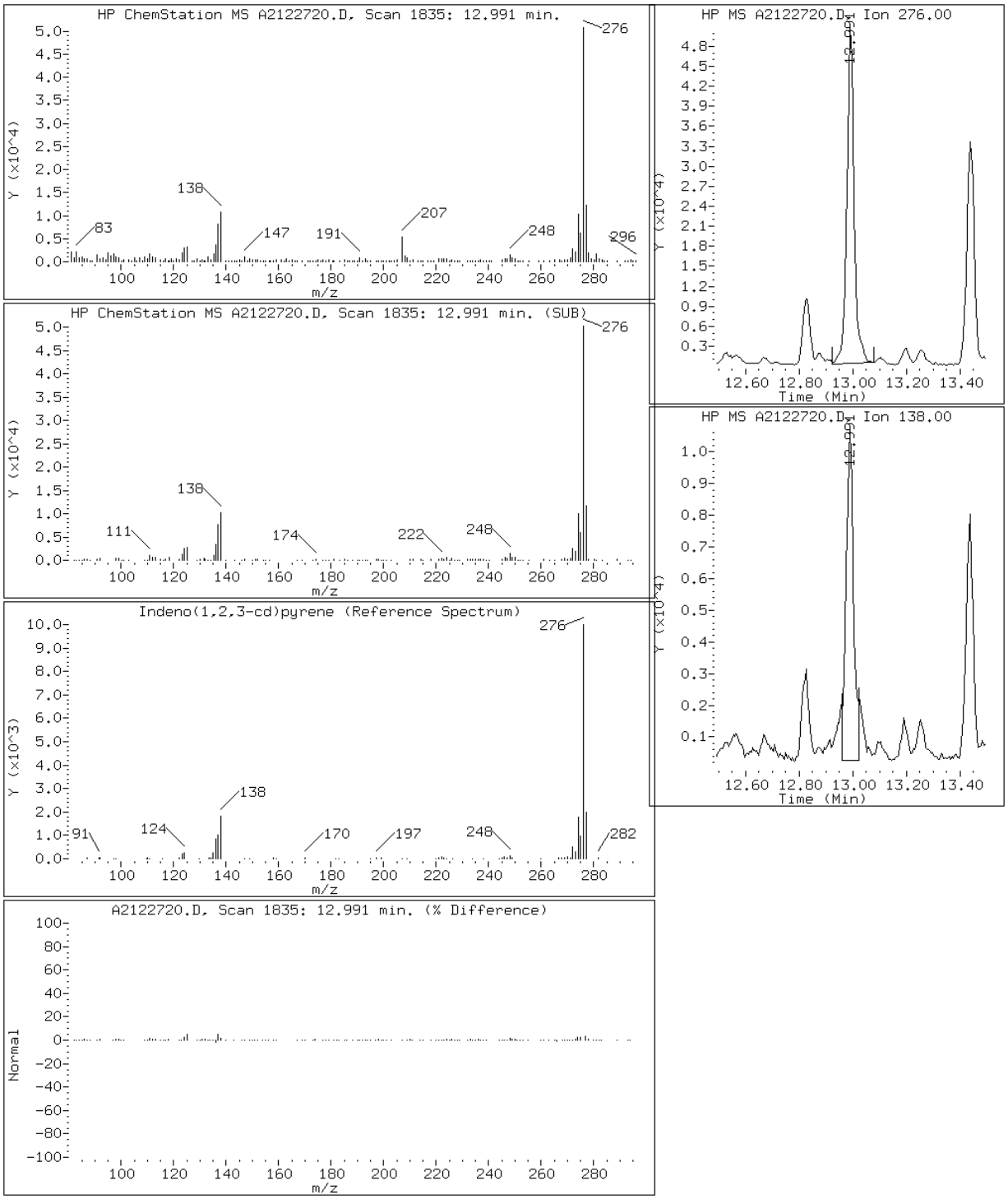
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

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



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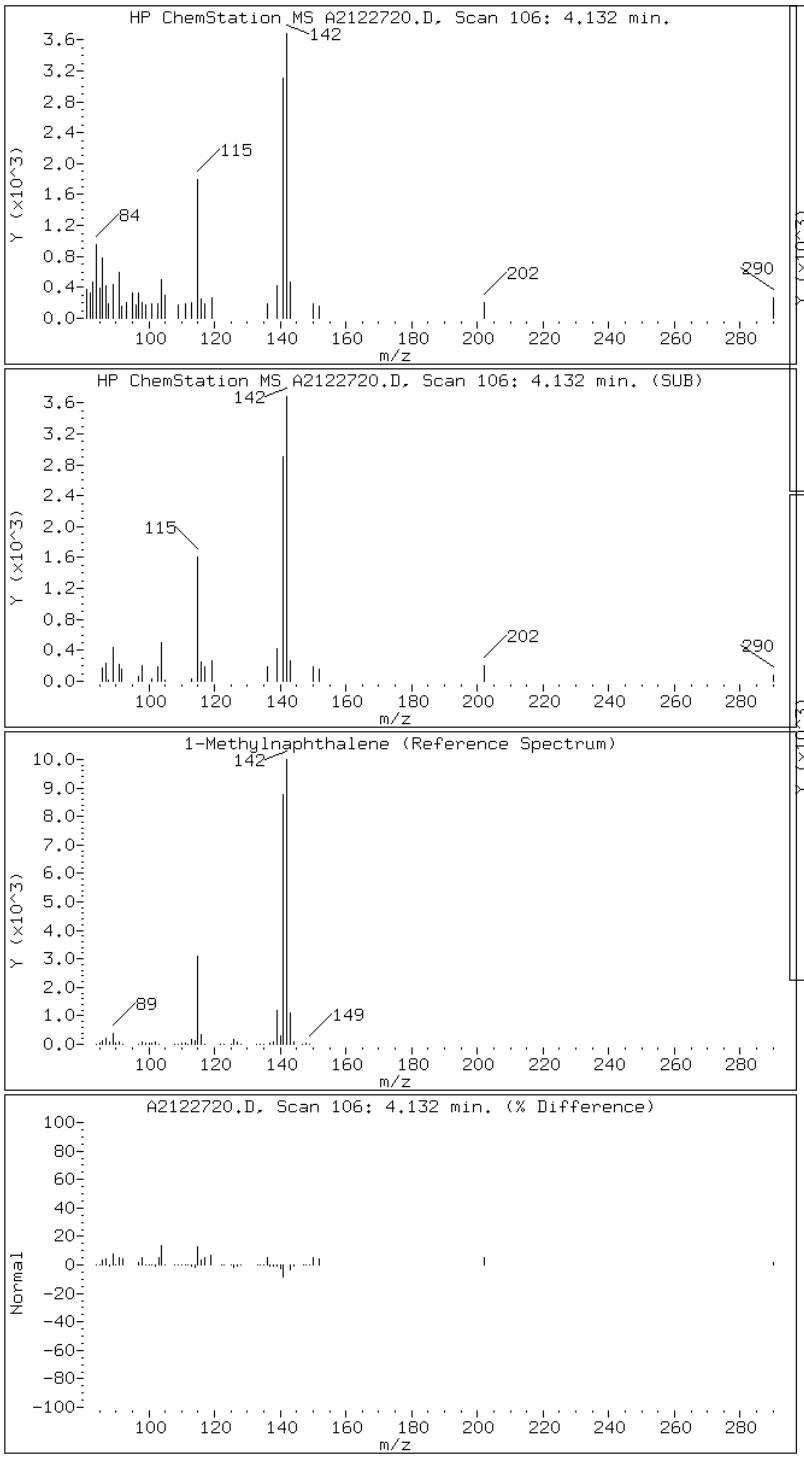
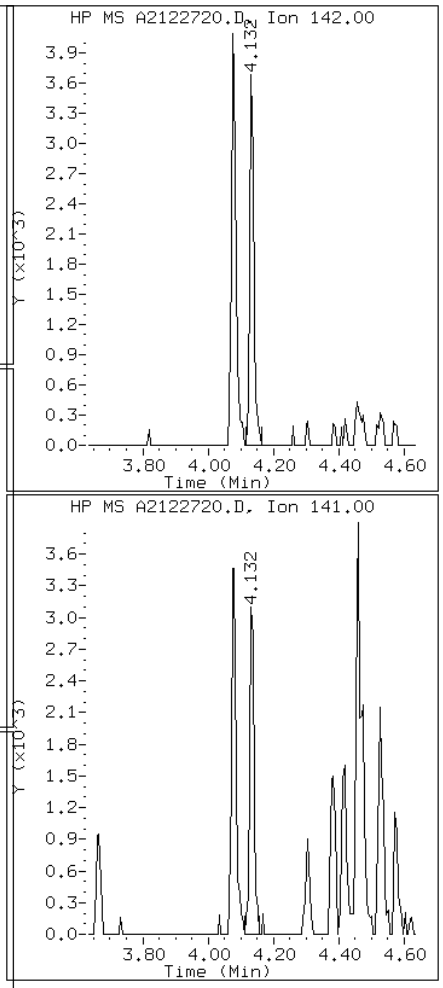
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

4 1-Methylnaphthalene





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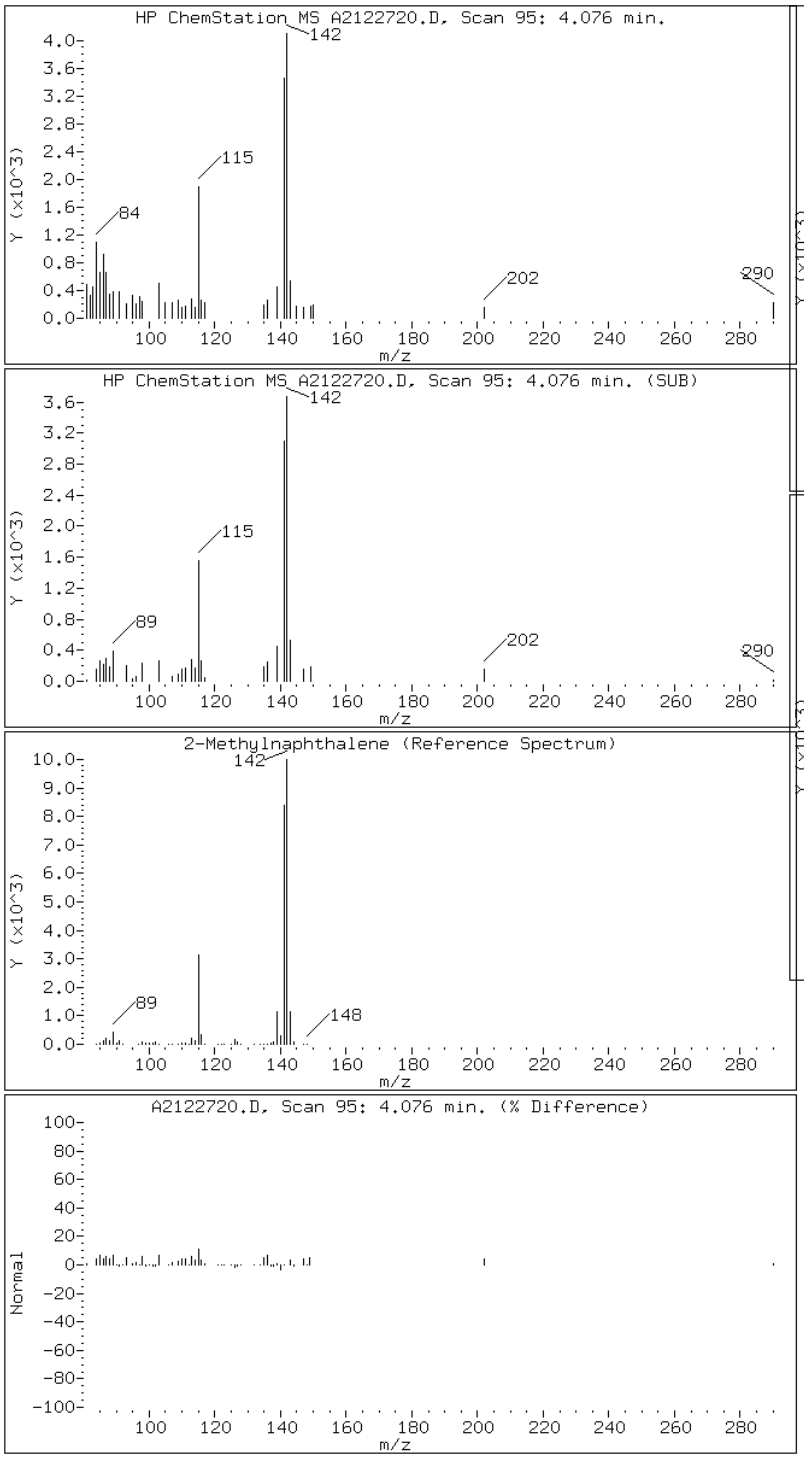
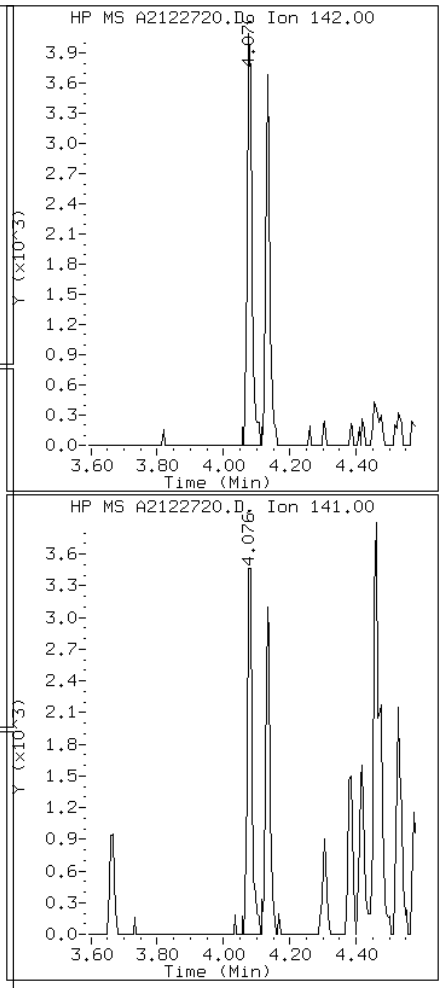
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

3 2-Methylnaphthalene





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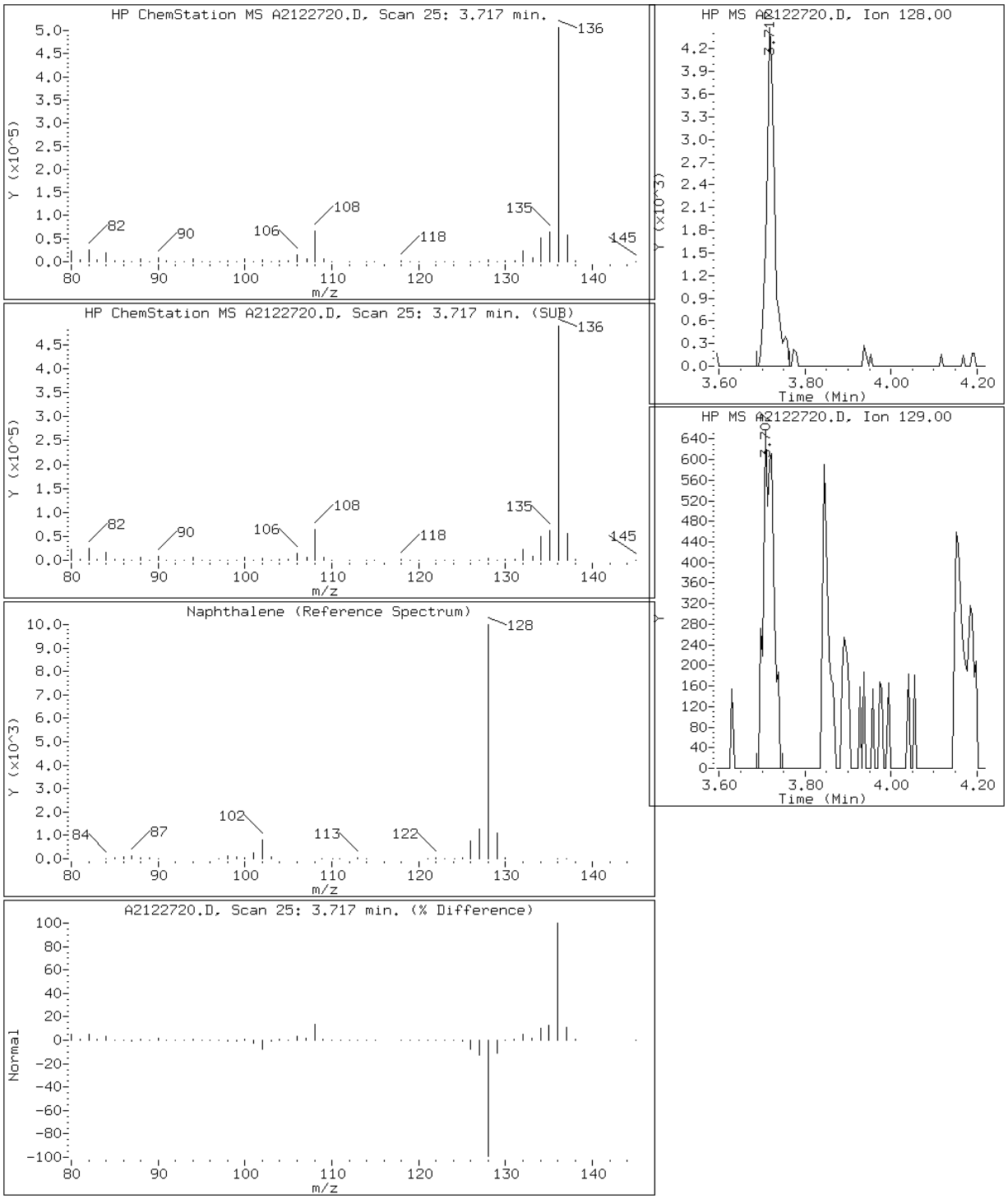
Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

2 Naphthalene



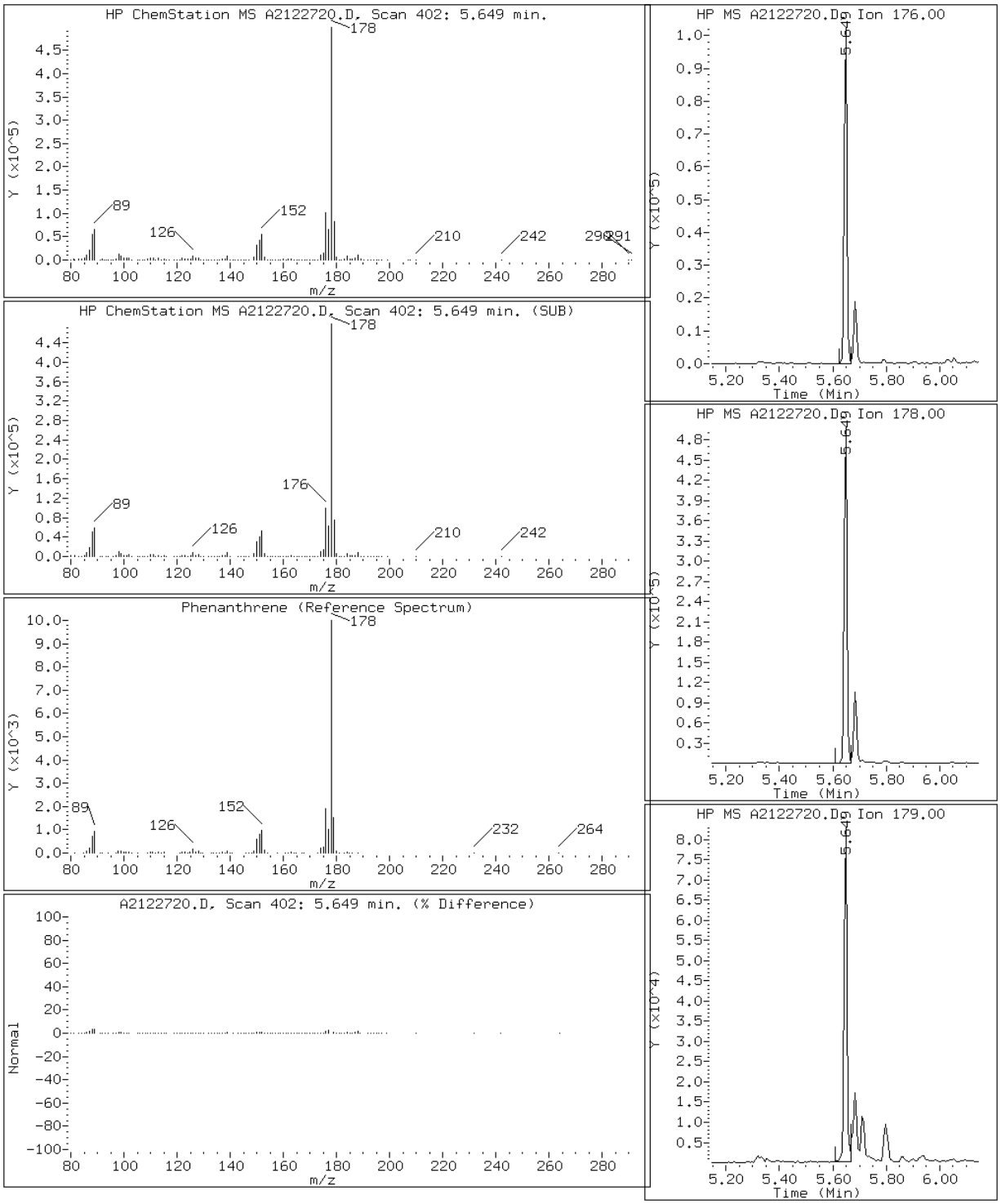
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

10 Phenanthrene



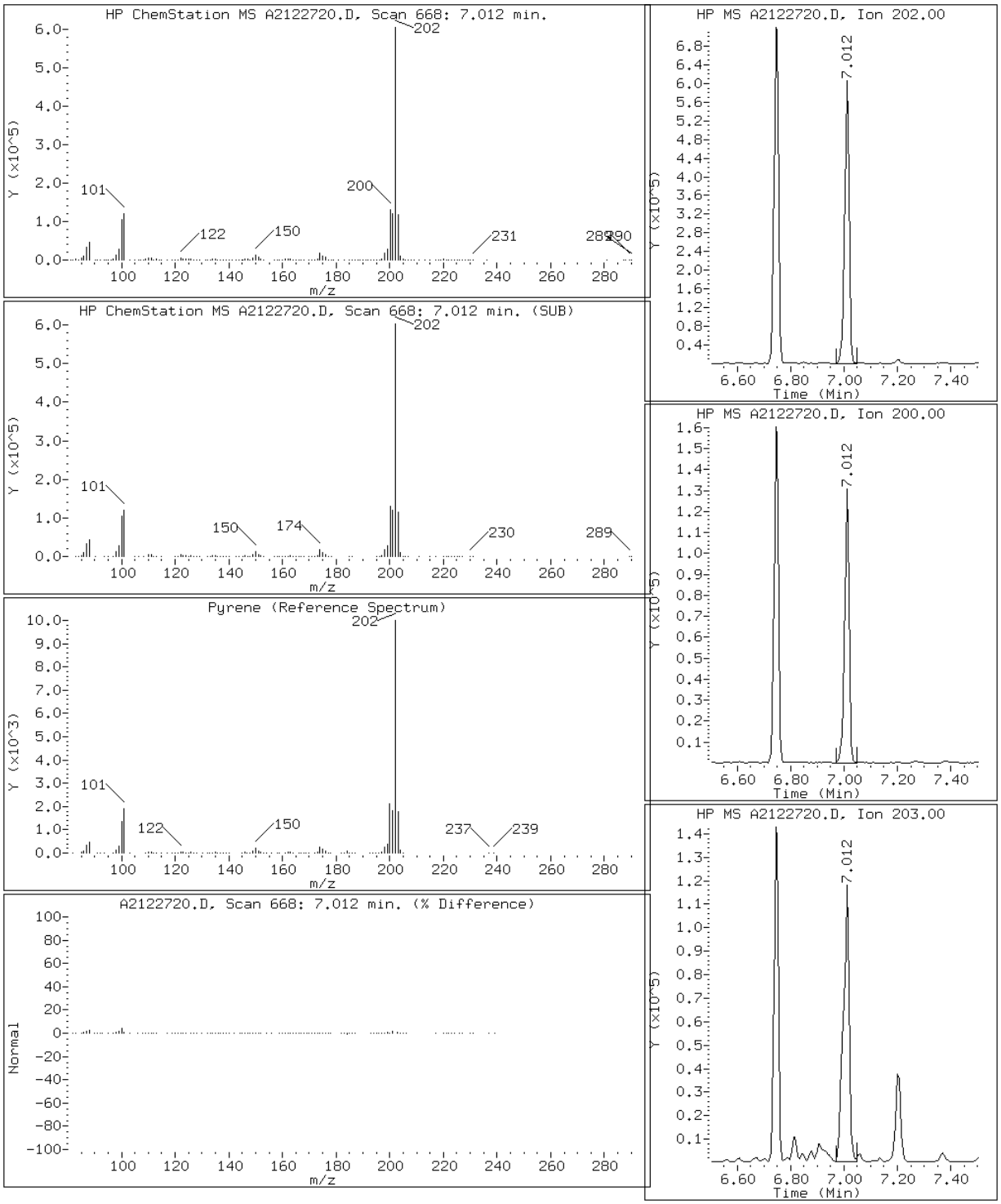
Data File: A2122720.D

Date: 27-DEC-2012 13:39

Client ID: CV0511Y-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-58-A~98123~5~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511Z-CS | Lab Sample ID: 680-85785-59

Matrix: Solid | Lab File ID: A2122721.D

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

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.37(g) | Date Analyzed: 12/27/2012 13:58

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.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	17		9.2	0.80
208-96-8	Acenaphthylene	11		9.2	0.73
120-12-7	Anthracene	43		9.2	0.91
56-55-3	Benzo[a]anthracene	330	B	9.2	0.85
50-32-8	Benzo[a]pyrene	440	B	9.2	0.93
205-99-2	Benzo[b]fluoranthene	730	B	9.2	1.3
191-24-2	Benzo[g,h,i]perylene	120	B	9.2	1.5
207-08-9	Benzo[k]fluoranthene	290	B	9.2	0.88
218-01-9	Chrysene	370	B	9.2	1.0
53-70-3	Dibenz(a,h)anthracene	44	B	9.2	0.89
206-44-0	Fluoranthene	570	B	9.2	0.82
86-73-7	Fluorene	14		9.2	0.71
193-39-5	Indeno[1,2,3-cd]pyrene	150	B	9.2	1.5
90-12-0	1-Methylnaphthalene	18		9.2	0.73
91-57-6	2-Methylnaphthalene	23		9.2	0.71
91-20-3	Naphthalene	22		9.2	0.71
85-01-8	Phenanthrene	210		9.2	0.60
129-00-0	Pyrene	500	B	9.2	0.71

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\TSMA5973.i\1A121227.b\A2122721.D
Lab Smp Id: 680-85785-A-59-A Client Smp ID: CV0511Z-CS
Inj Date : 27-DEC-2012 13:58
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-59-A~98123~1~8270D/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: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mdl.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	30.370	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)	REVIEW CODE
* 1 Naphthalene-d8	136	3.695	3.705	(1.000)	1629191	40.0000		
2 Naphthalene	128	3.711	3.720	(1.004)	22224	0.48431	16	
3 2-Methylnaphthalene	142	4.075	4.079	(1.103)	14396	0.49642	16	
4 1-Methylnaphthalene	142	4.126	4.135	(1.116)	12013	0.40029	13	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	857310	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	11495	0.25019	8.2	
7 Acenaphthene	153	4.674	4.678	(1.003)	10421	0.36859	12	
8 Fluorene	166	4.976	4.980	(1.068)	10171	0.31528	10	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1349030	40.0000		
10 Phenanthrene	176	5.647	5.646	(1.003)	40314	4.60880	150	
11 Anthracene	178	5.683	5.687	(1.009)	43062	0.93420	31	
$ 12 o-Terphenyl	230	5.904	5.903	(1.048)	91184	3.19833	100	
13 Fluoranthene	202	6.749	6.743	(1.198)	668298	12.4786	410	
* 14 Chrysene-d12	240	8.752	8.736	(1.000)	1641575	40.0000		

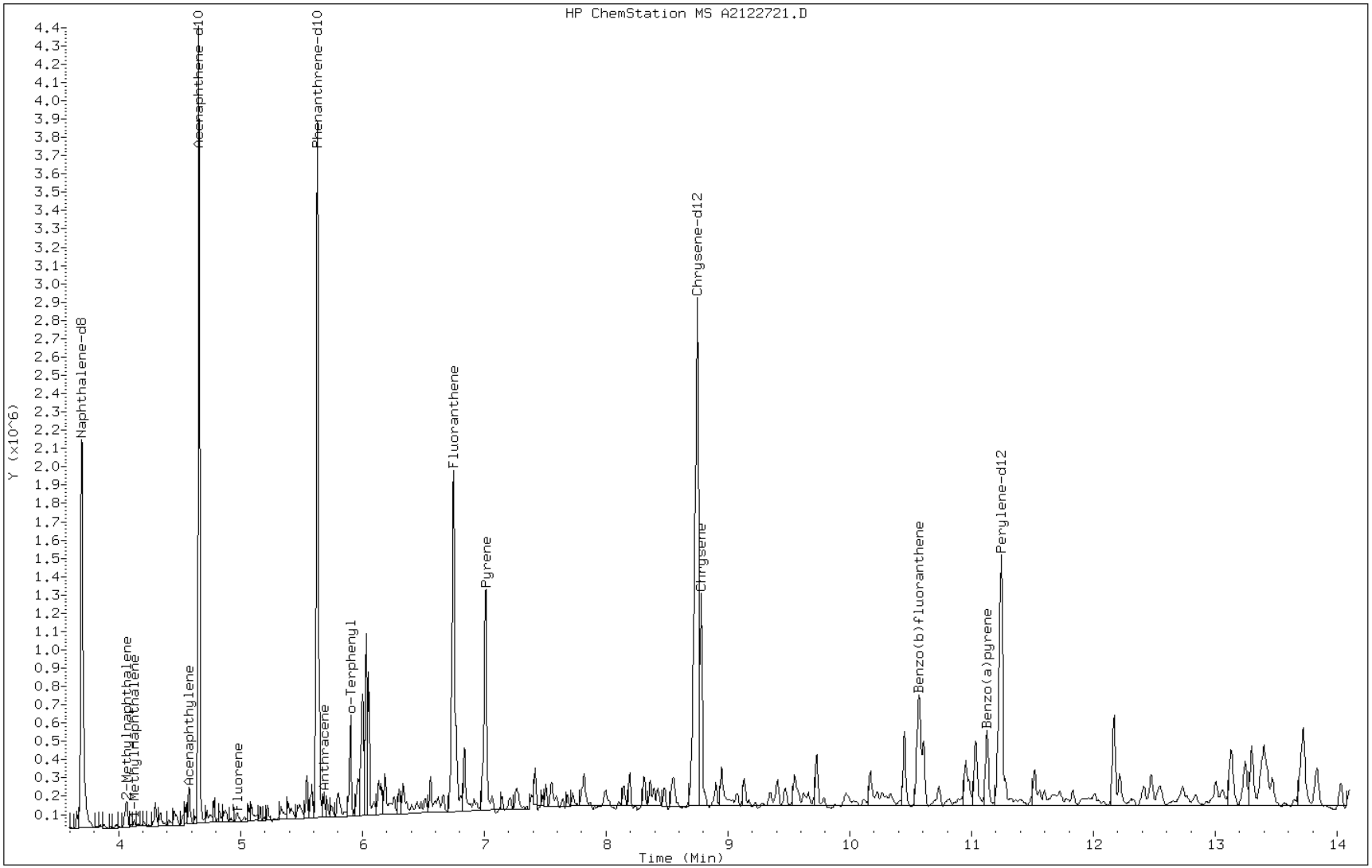
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)	REVIEW CODE
15 Pyrene	202	7.015	7.004	(0.802)	610886	10.9187	360	
16 Benzo(a)anthracene	226	8.727	8.700	(0.997)	106524	7.16678	240	
17 Chrysene	228	8.783	8.772	(1.004)	406764	7.99509	260	
* 18 Perylene-d12	264	11.247	11.241	(1.000)	1024172	40.0000		
19 Benzo(b)fluoranthene	252	10.566	10.544	(0.939)	502353	15.9053	520	
20 Benzo(k)fluoranthene	252	10.607	10.596	(0.943)	207382	6.42900	210	
21 Benzo(a)pyrene	252	11.130	11.113	(0.990)	274088	9.60437	320	
22 Indeno(1,2,3-cd)pyrene	276	13.005	12.993	(1.156)	94563	3.28797	110	
23 Dibenzo(a,h)anthracene	278	13.046	13.039	(1.160)	27870	0.95650	31	
24 Benzo(g,h,i)perylene	276	13.466	13.444	(1.197)	71668	2.51533	83	

Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW



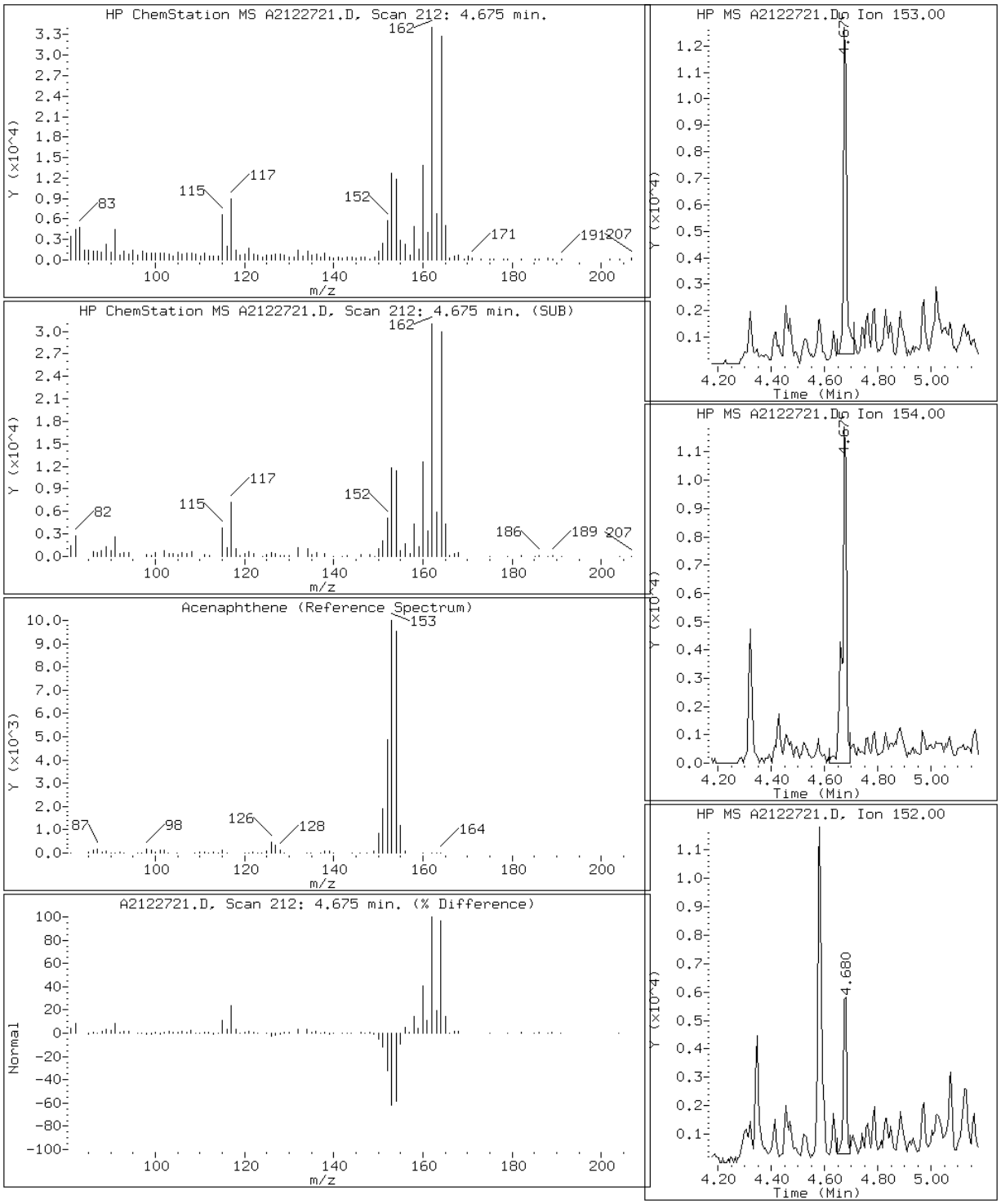
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

7 Acenaphthene



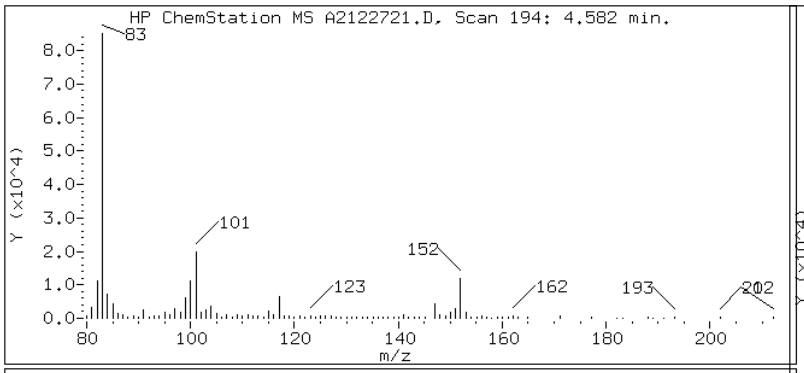
Data File: A2122721.D

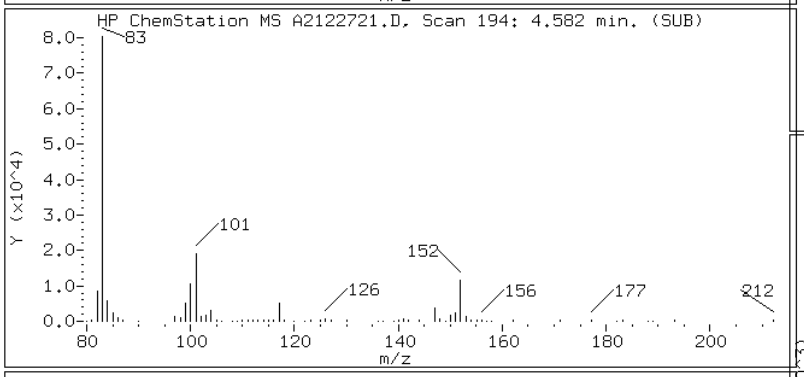
Date: 27-DEC-2012 13:58

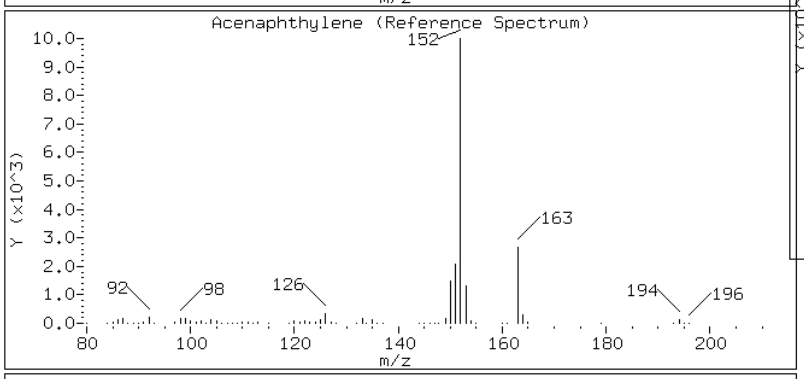
Client ID: CV0511Z-CS Instrument: TSMA5973.i

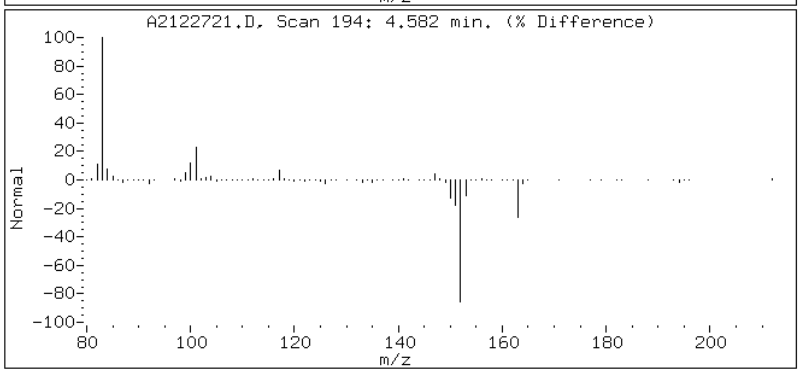
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

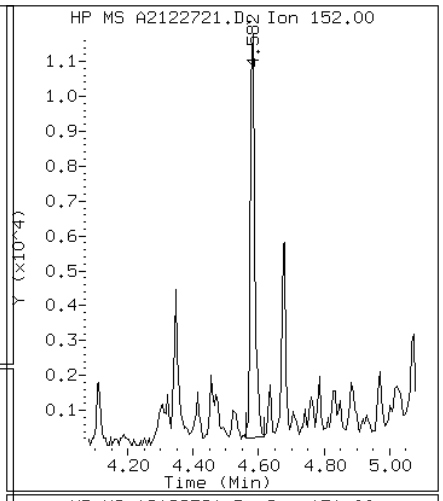
6 Acenaphthylene

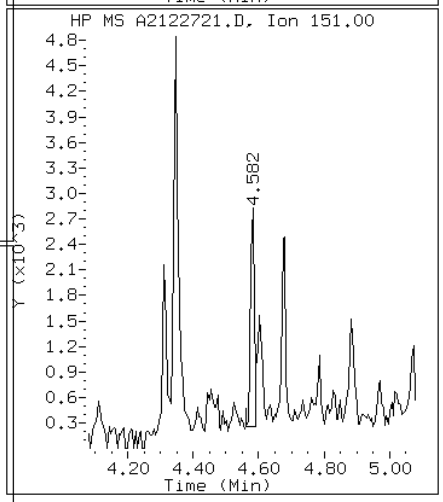












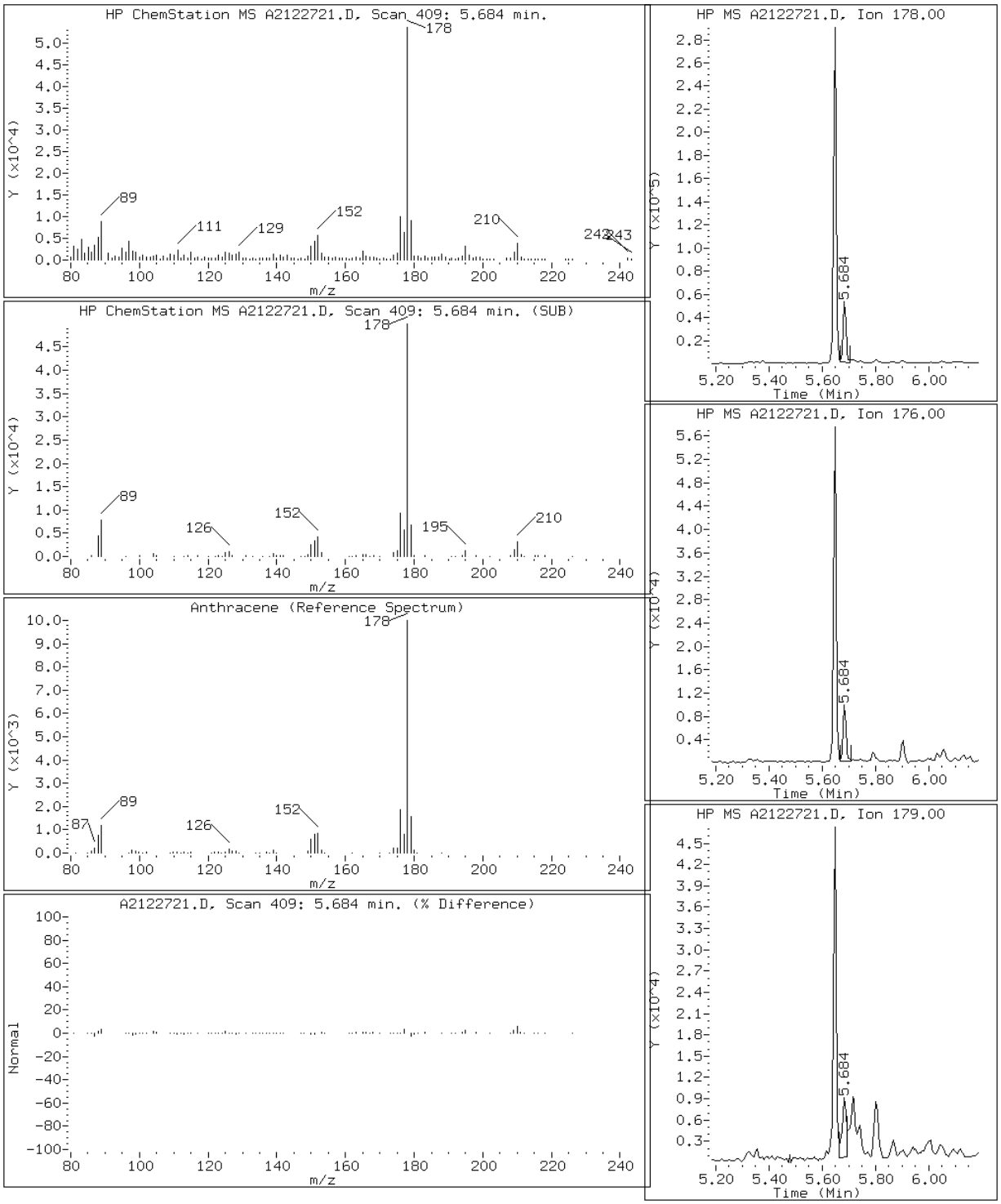
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

11 Anthracene



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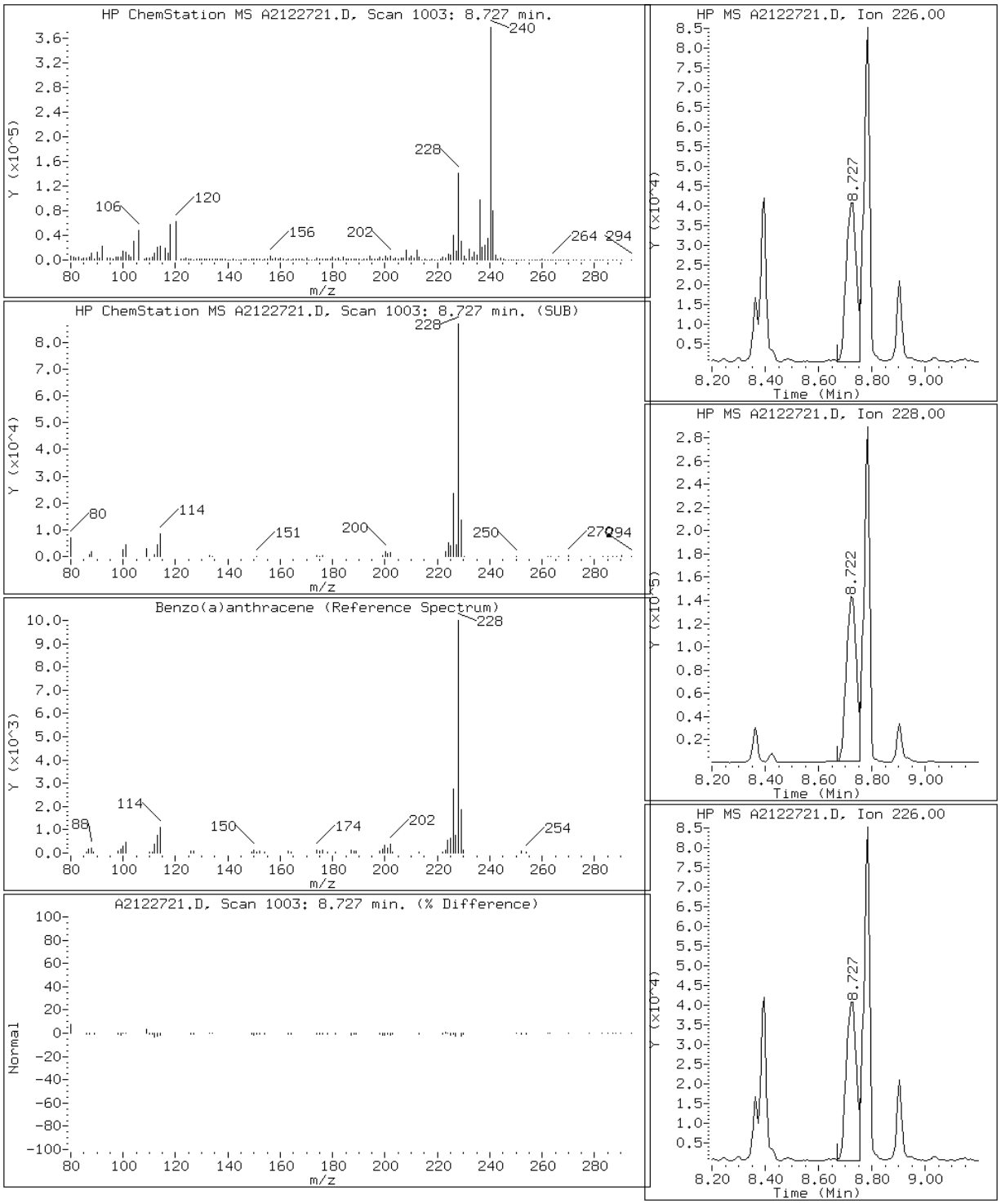
Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

16 Benzo(a)anthracene



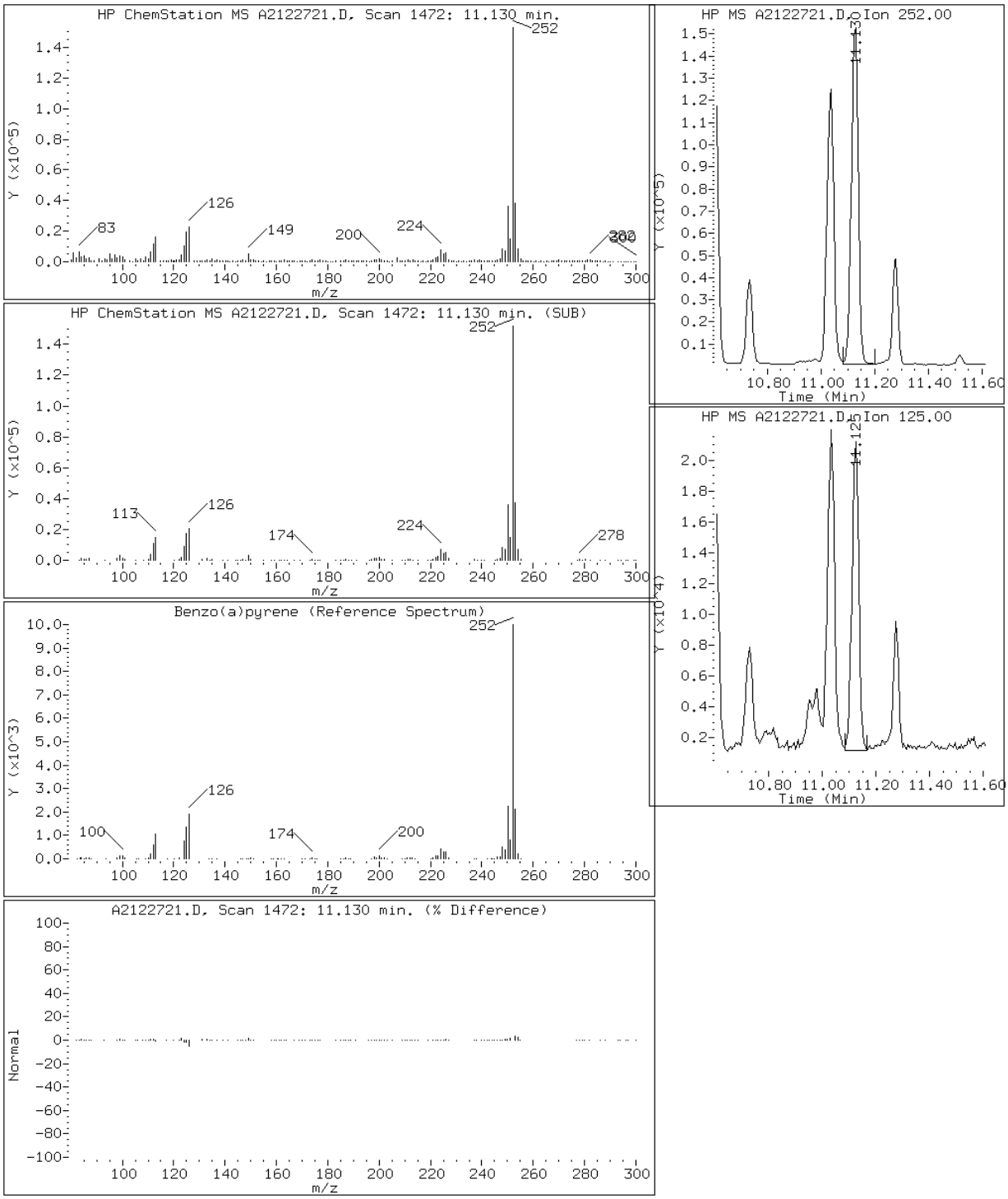
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

21 Benzo(a)pyrene



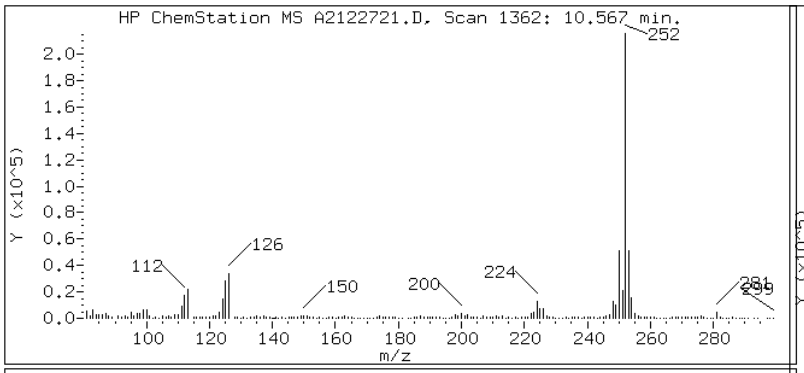
Data File: A2122721.D

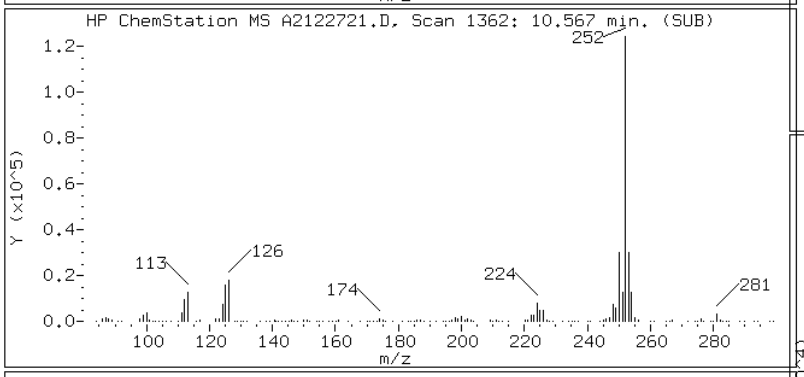
Date: 27-DEC-2012 13:58

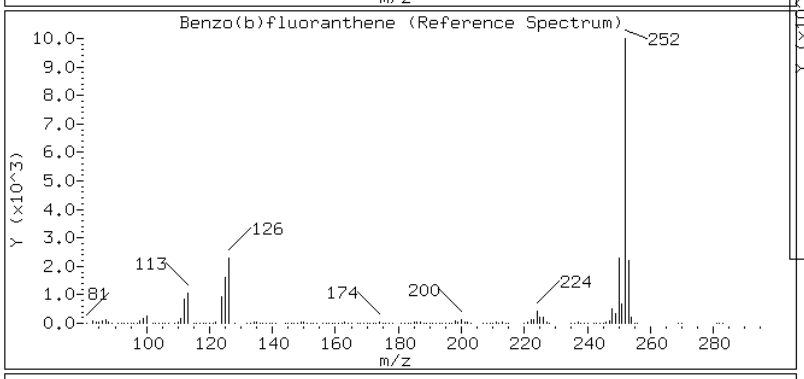
Client ID: CV0511Z-CS Instrument: TSMA5973.i

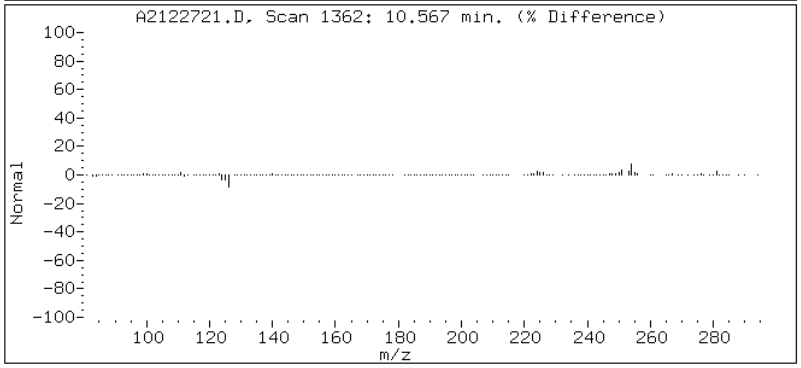
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

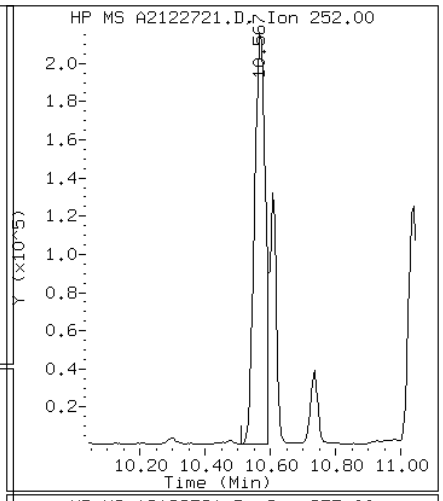
19 Benzo(b)fluoranthene

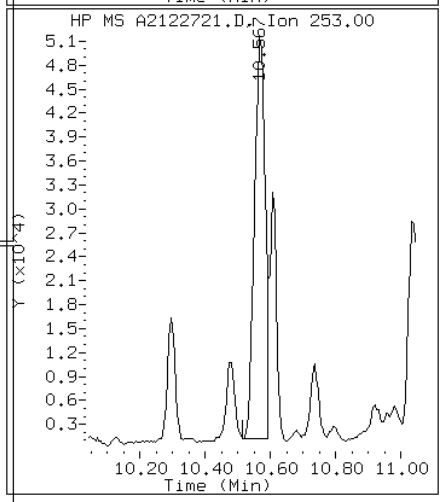












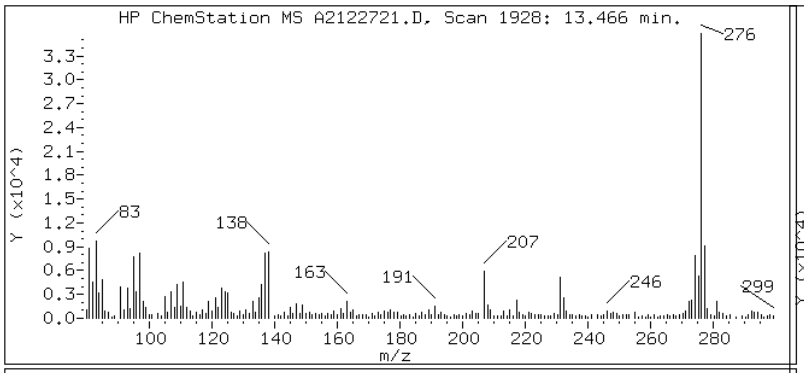
Data File: A2122721.D

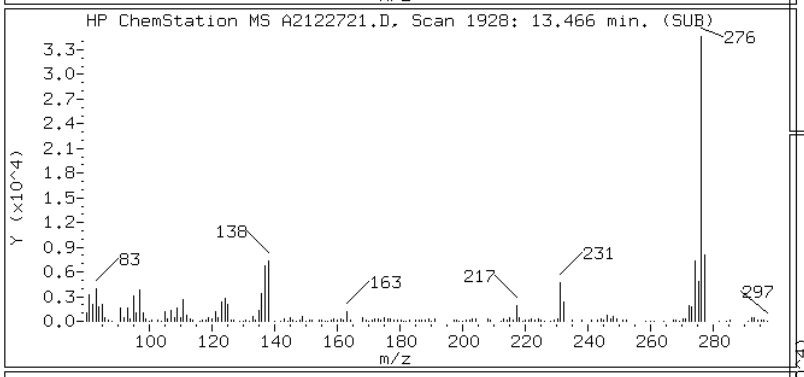
Date: 27-DEC-2012 13:58

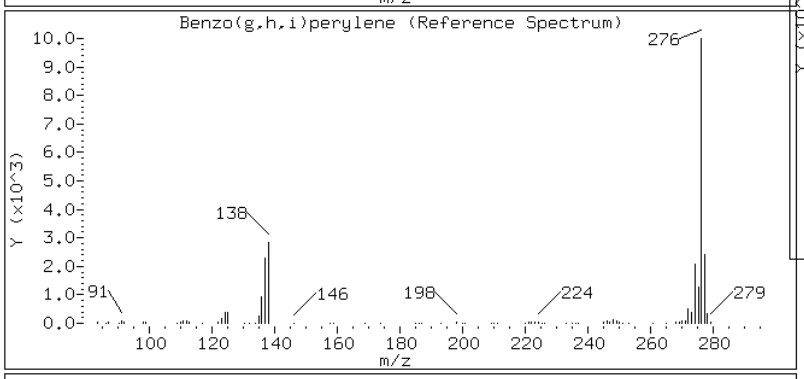
Client ID: CV0511Z-CS Instrument: TSMA5973.i

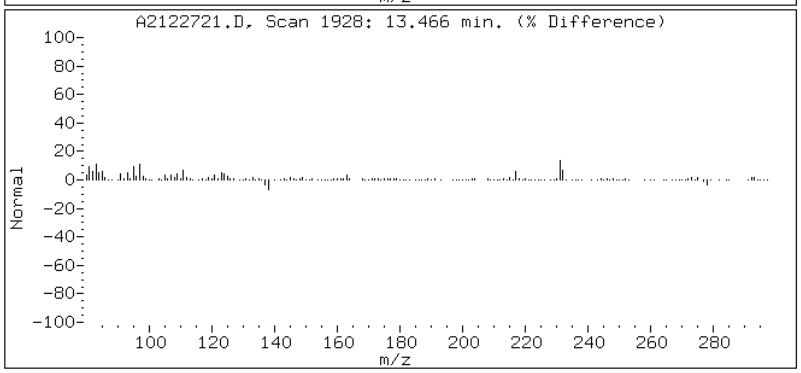
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

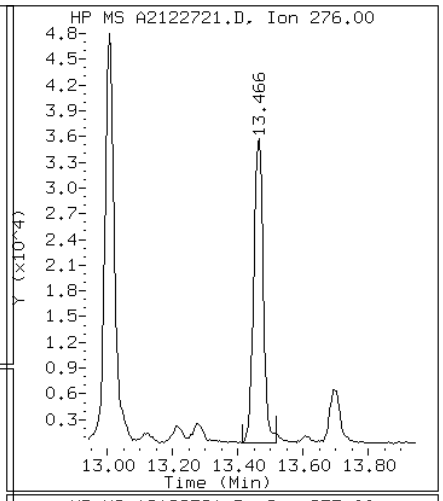
24 Benzo(g,h,i)perylene

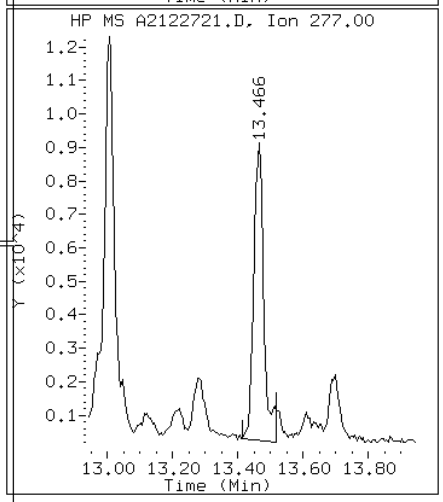












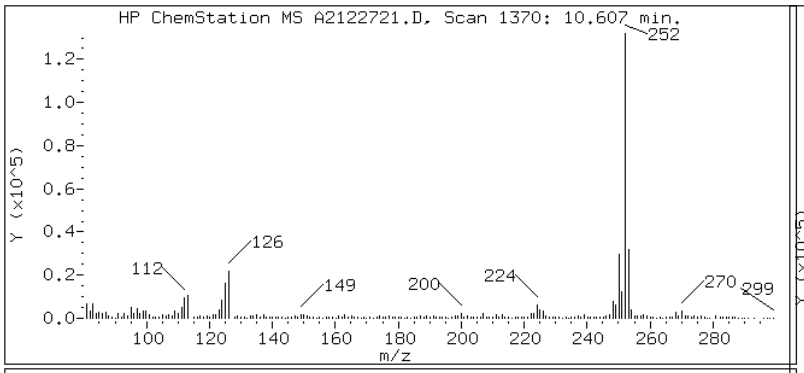
Data File: A2122721.D

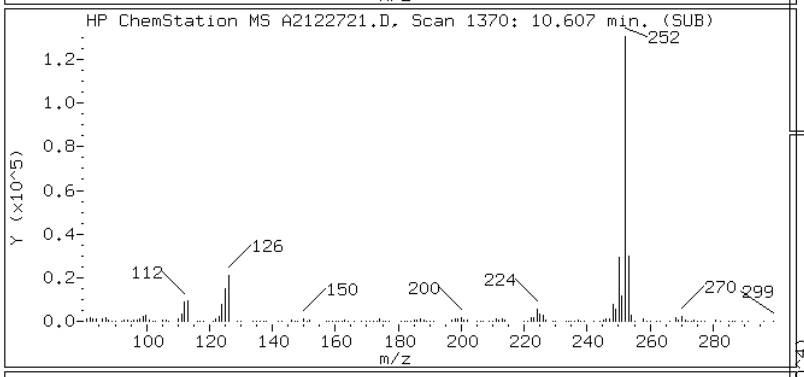
Date: 27-DEC-2012 13:58

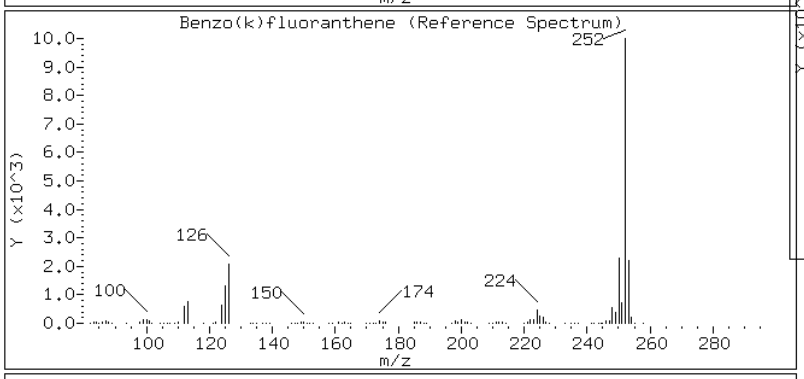
Client ID: CV0511Z-CS Instrument: TSMA5973.i

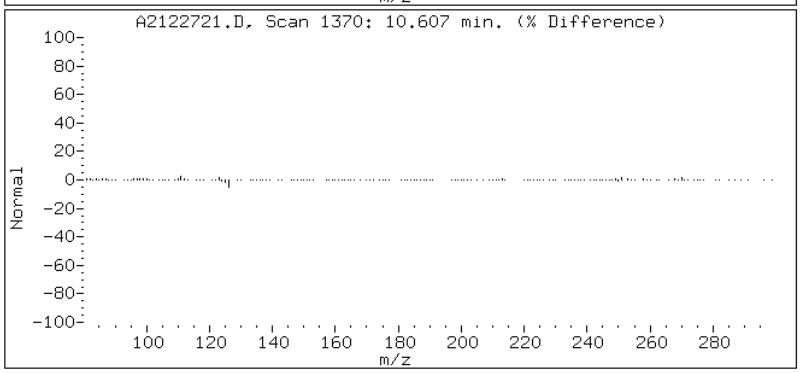
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

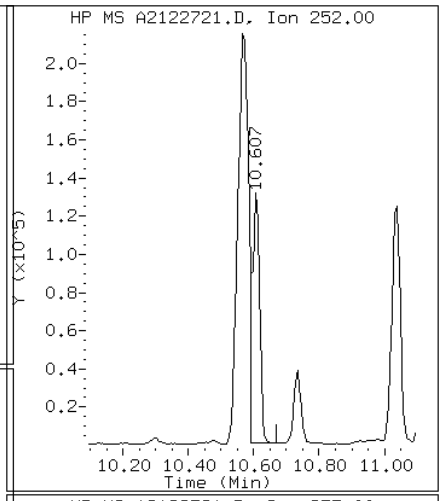
20 Benzo(k)fluoranthene

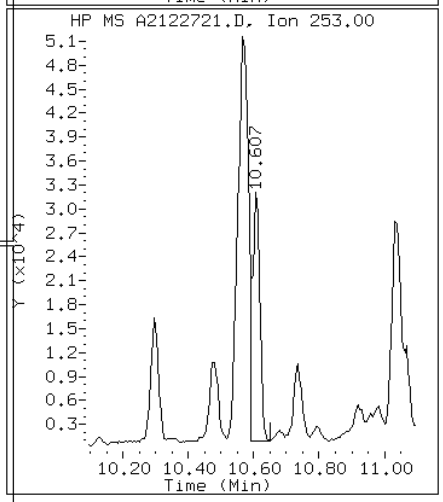












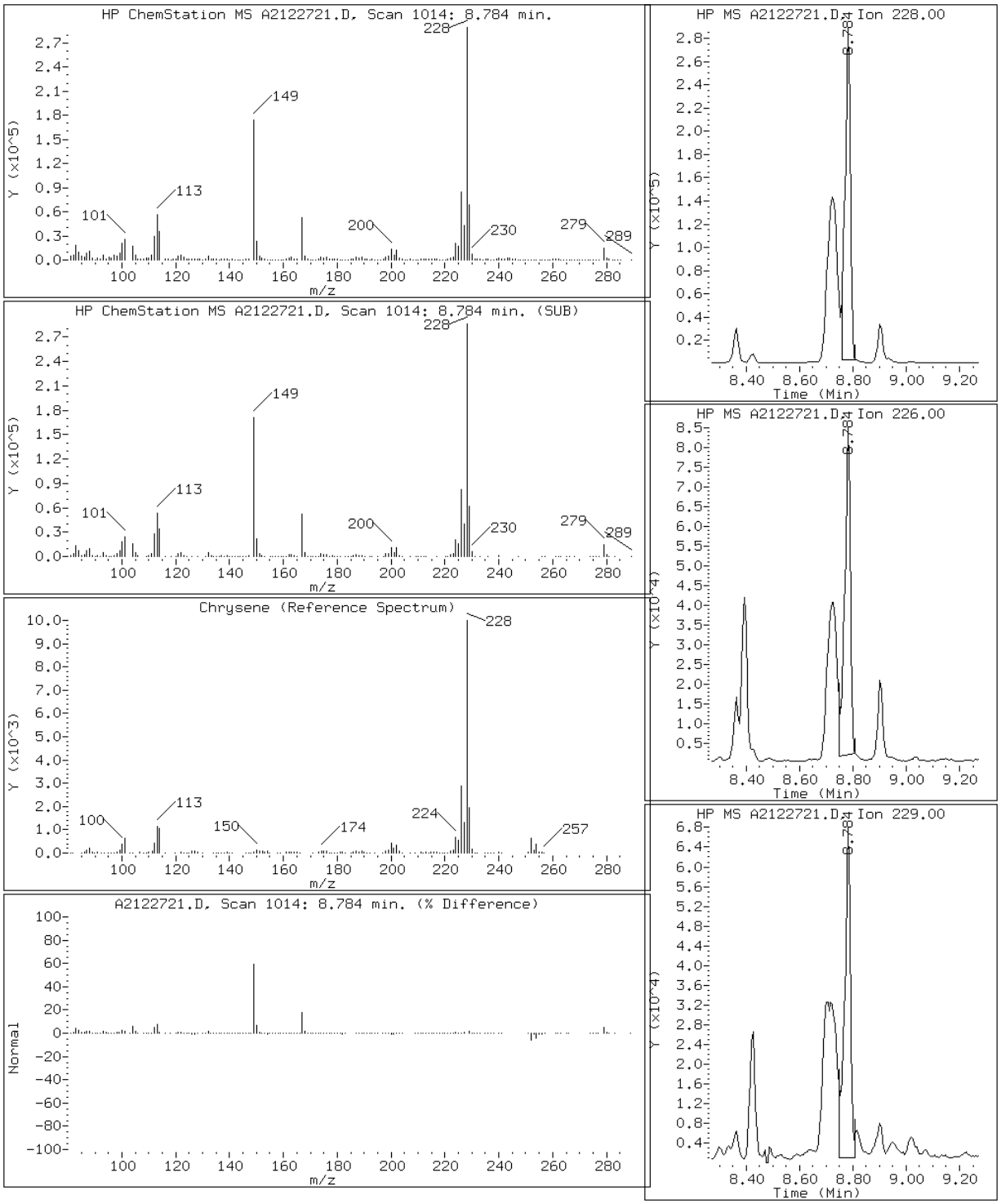
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

17 Chrysene



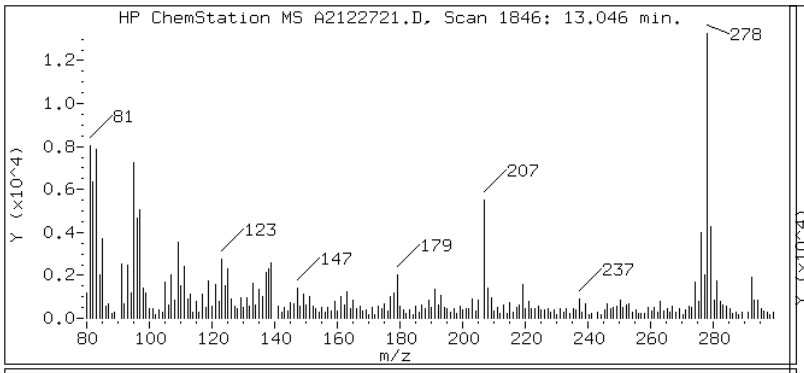
Data File: A2122721.D

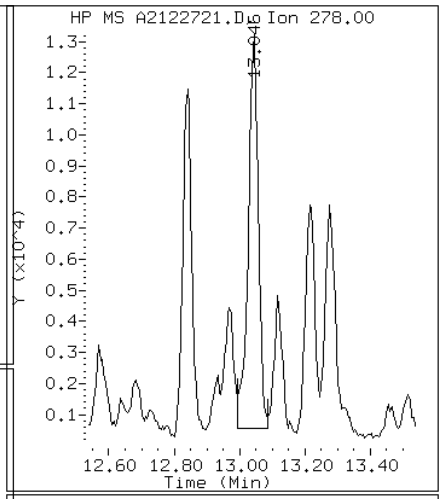
Date: 27-DEC-2012 13:58

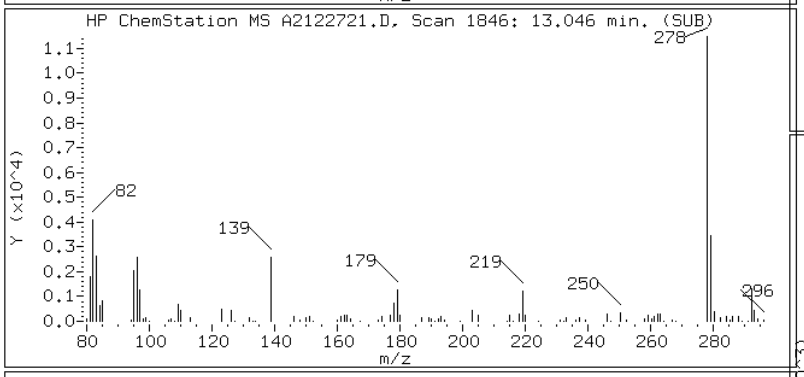
Client ID: CV0511Z-CS Instrument: TSMA5973.i

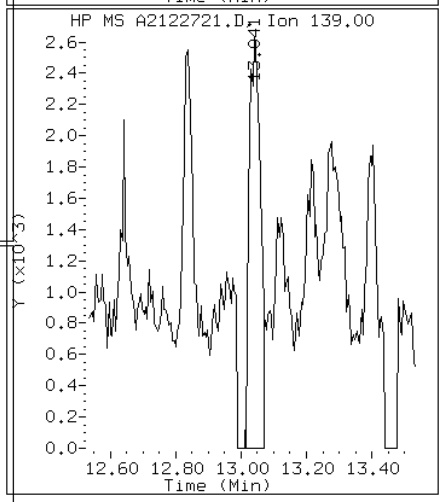
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

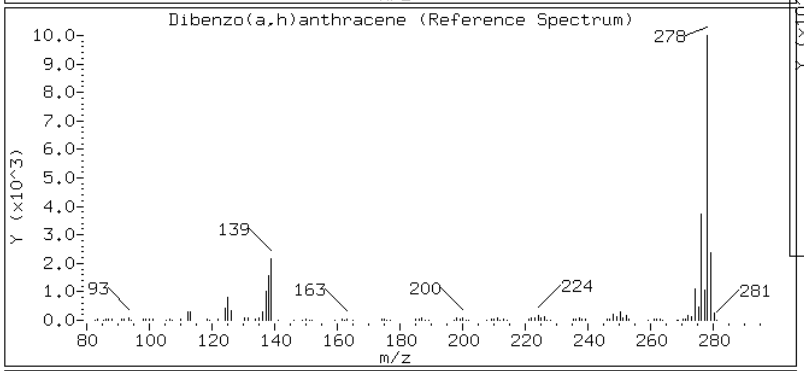
23 Dibenzo(a,h)anthracene

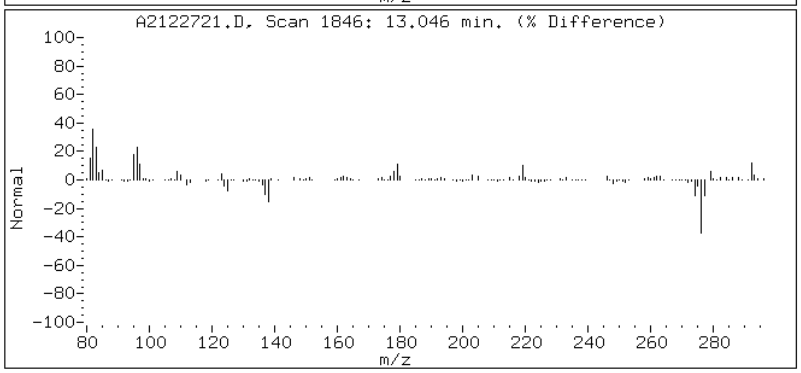












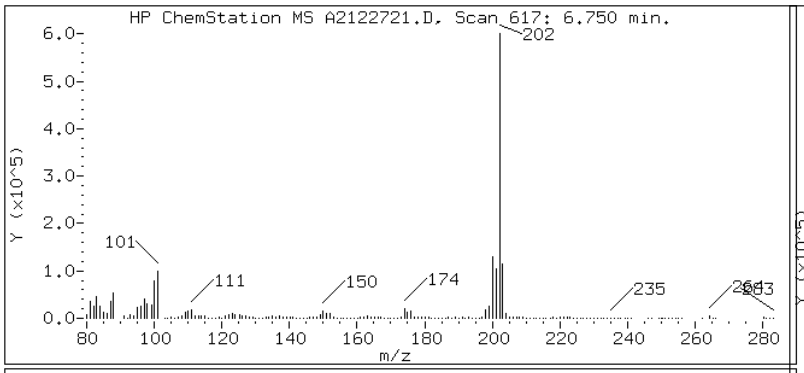
Data File: A2122721.D

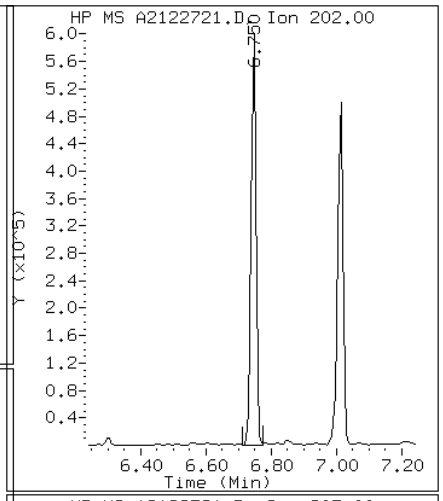
Date: 27-DEC-2012 13:58

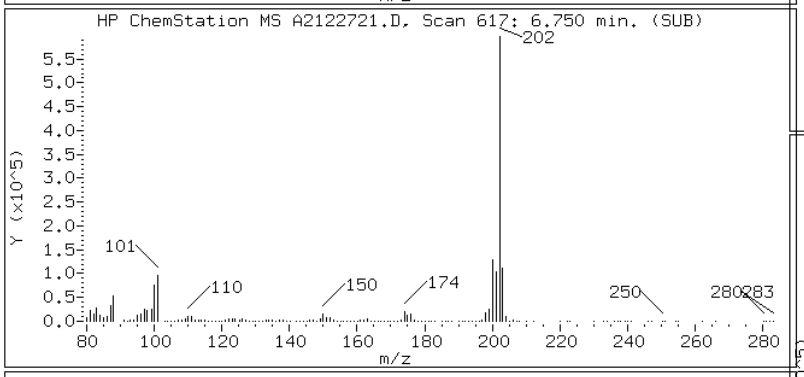
Client ID: CV0511Z-CS Instrument: TSMA5973.i

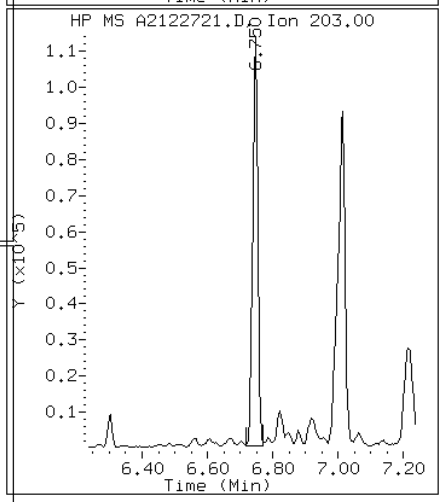
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

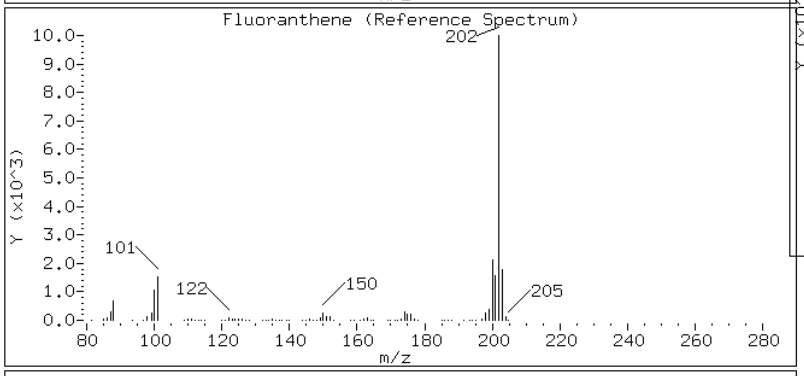
13 Fluoranthene

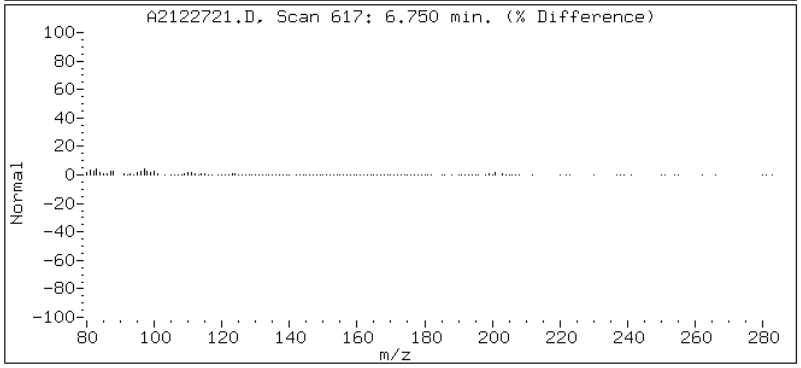












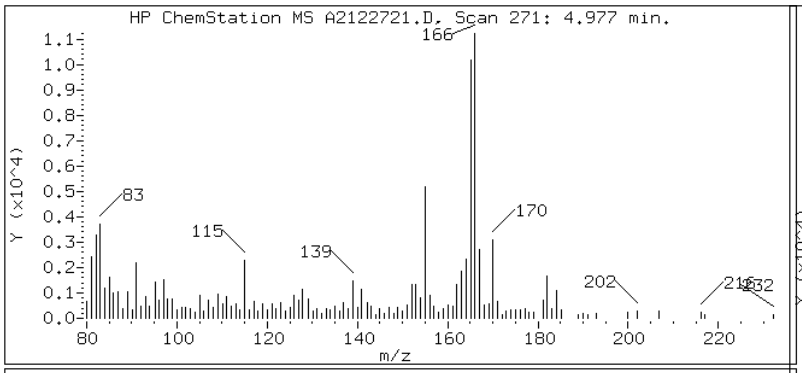
Data File: A2122721.D

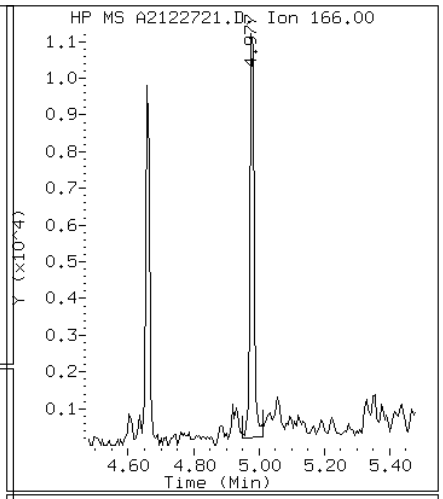
Date: 27-DEC-2012 13:58

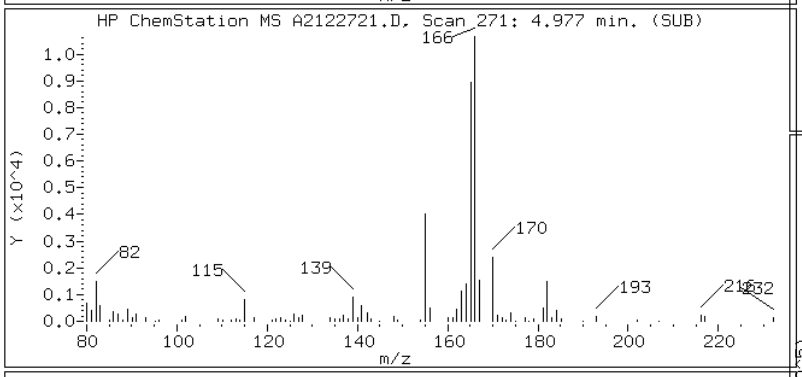
Client ID: CV0511Z-CS Instrument: TSMA5973.i

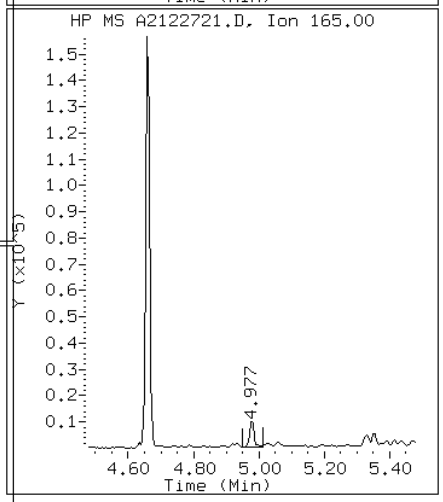
Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

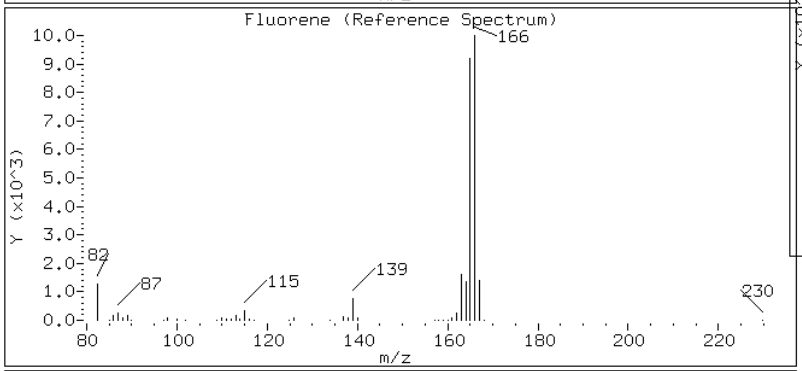
8 Fluorene

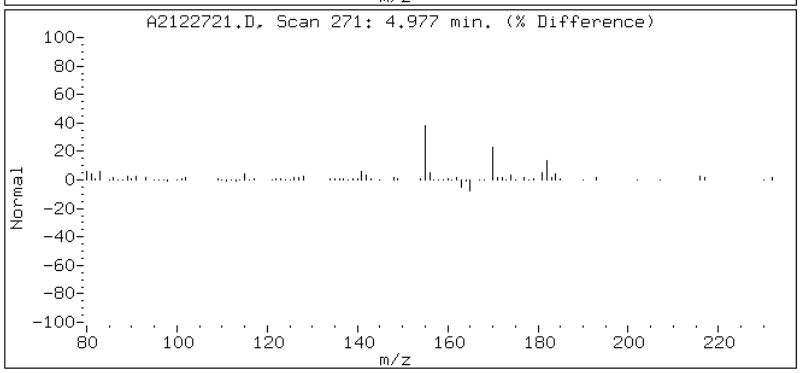












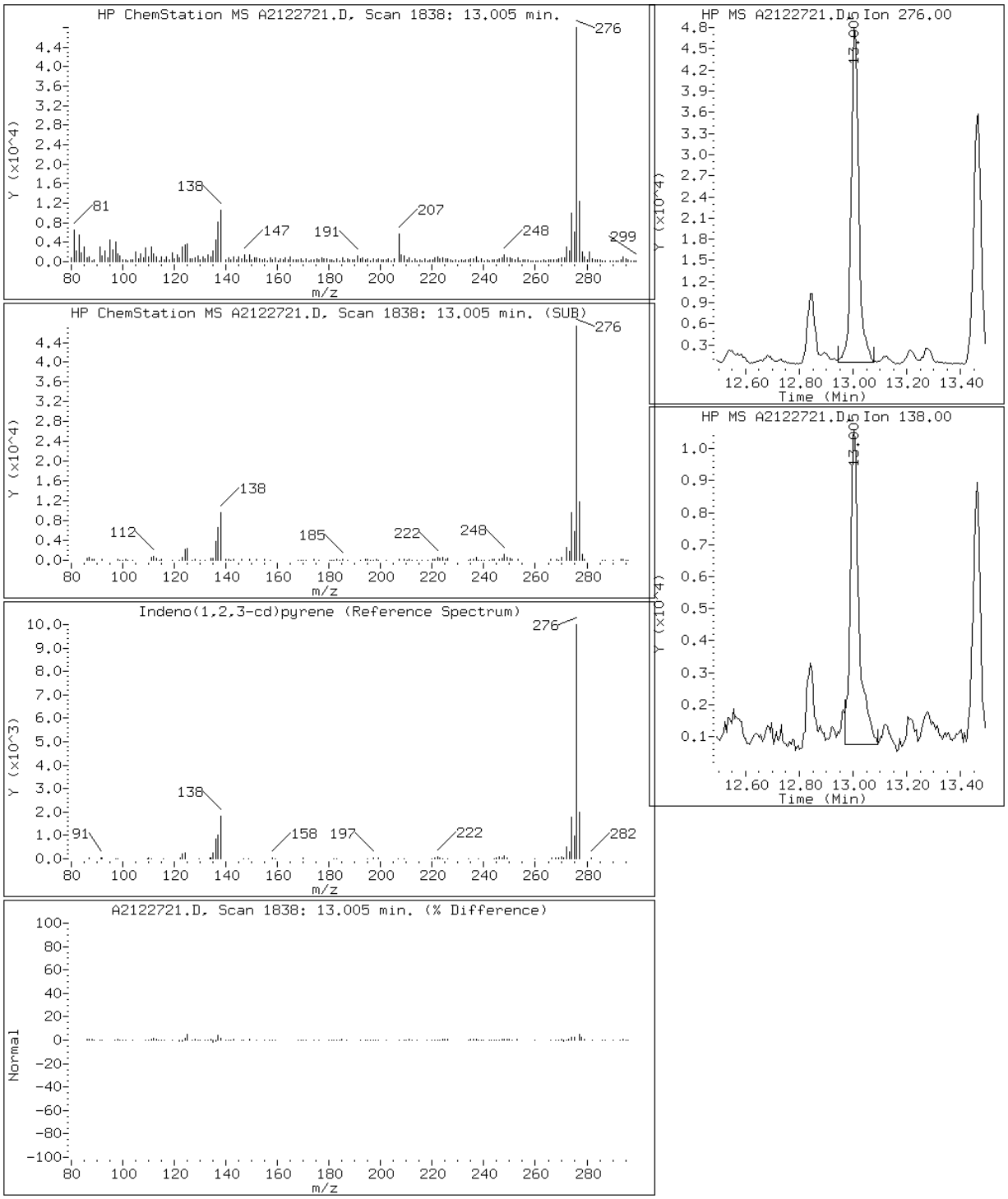
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

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



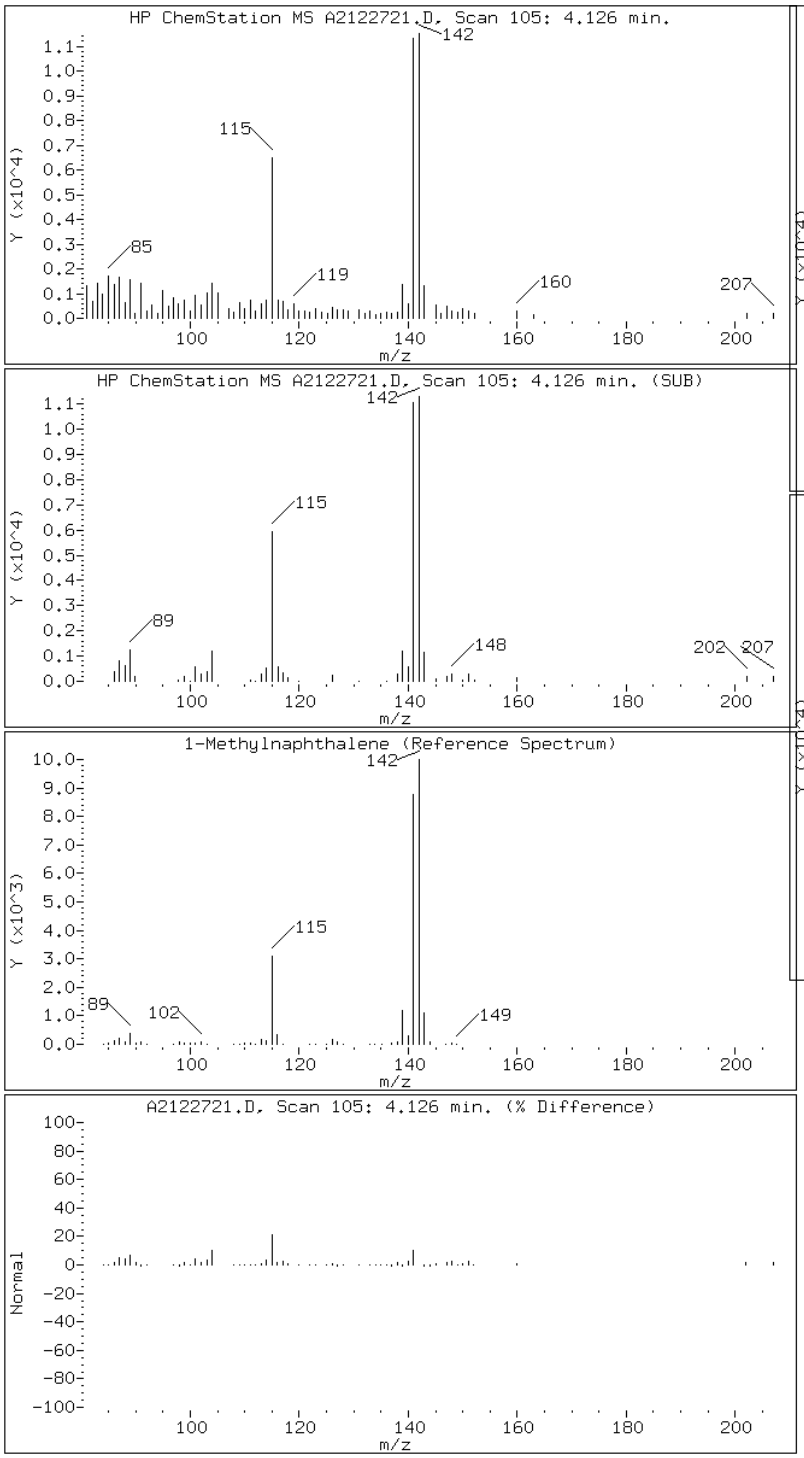
Data File: A2122721.D

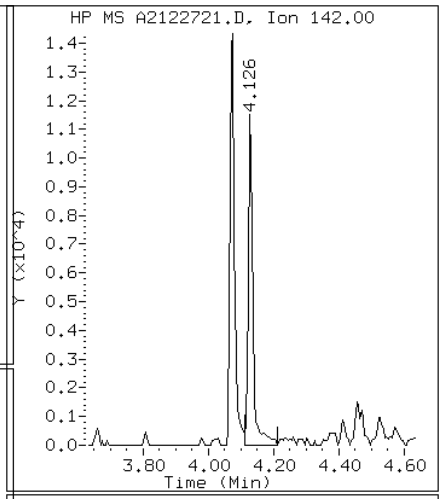
Date: 27-DEC-2012 13:58

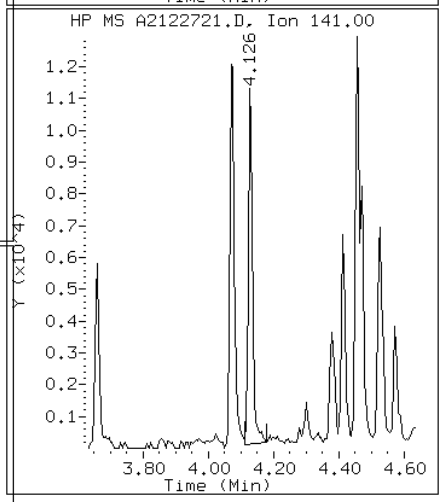
Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

4 1-Methylnaphthalene







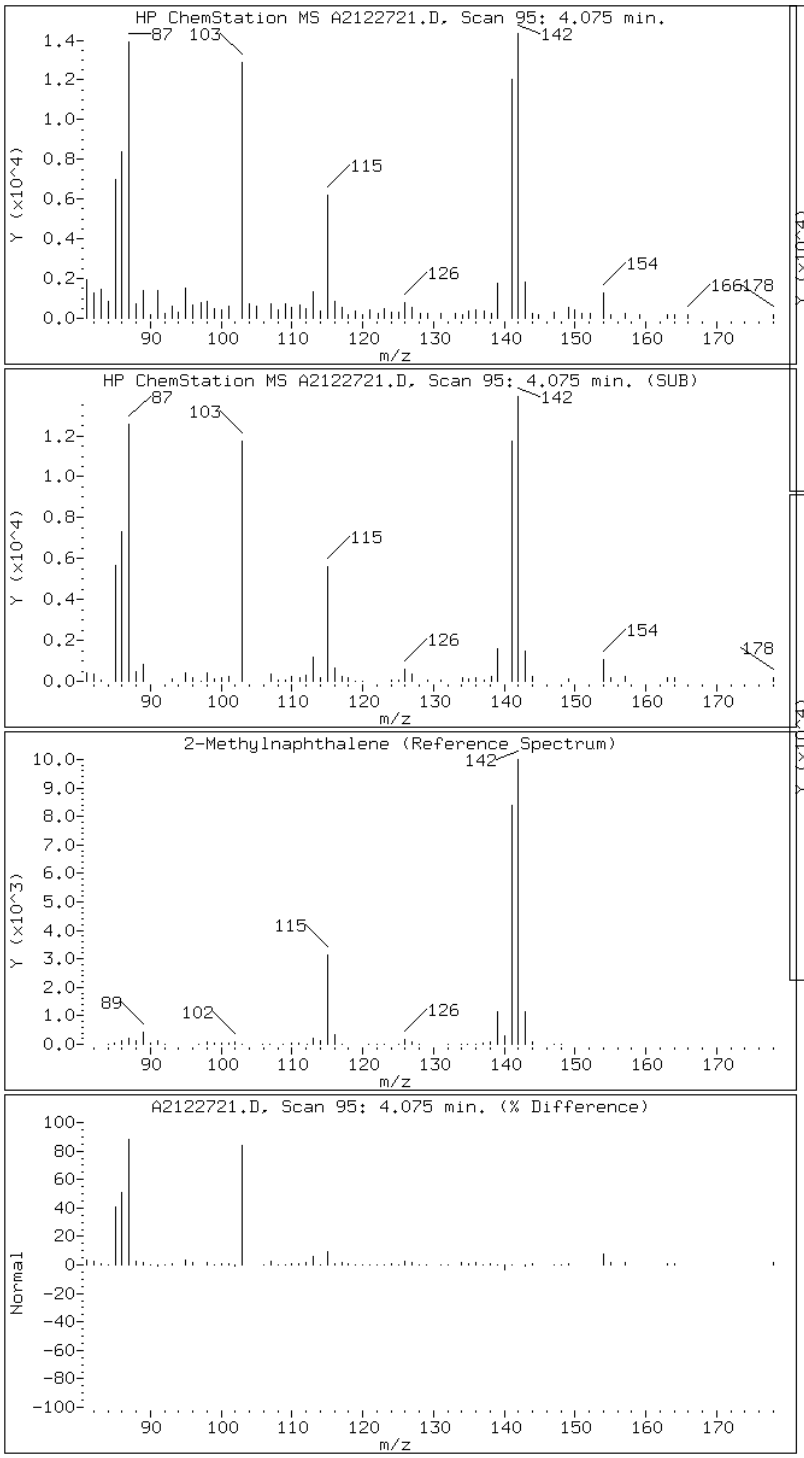
Data File: A2122721.D

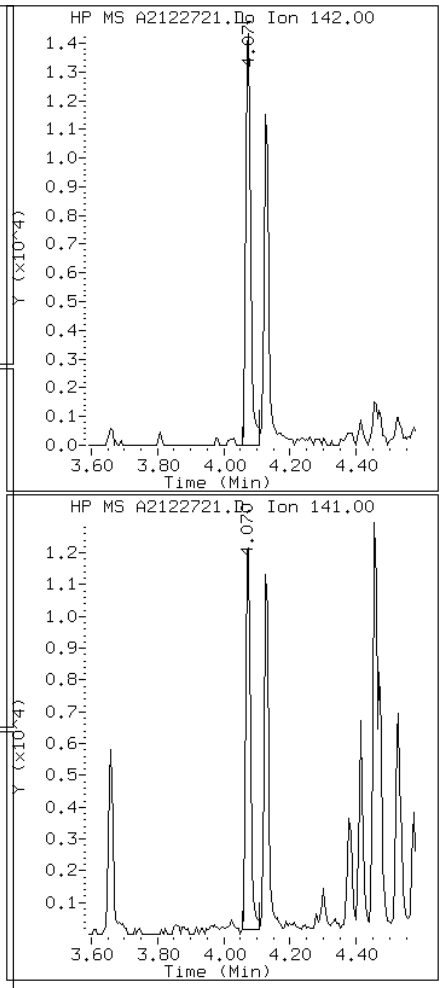
Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

3 2-Methylnaphthalene





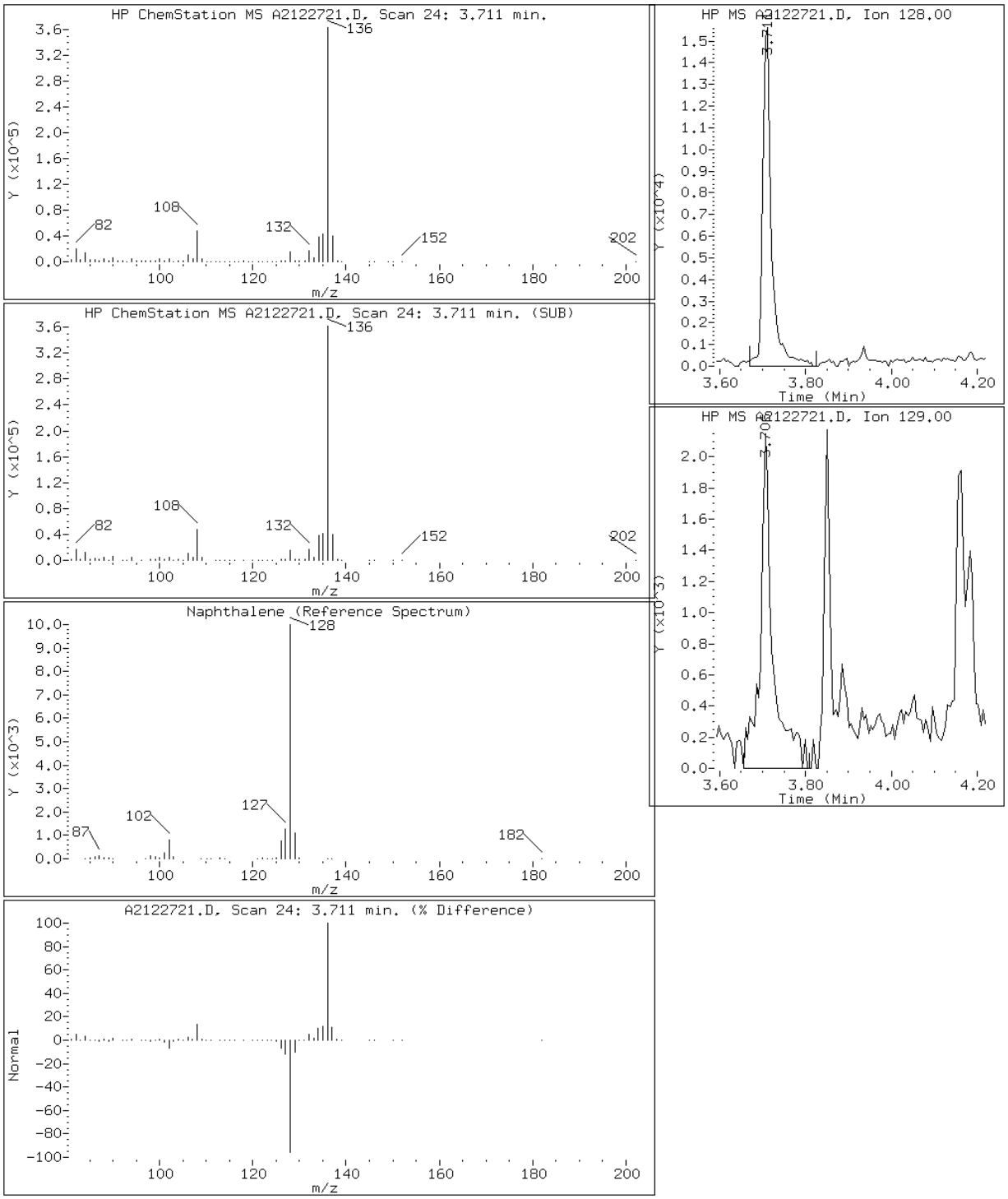
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

2 Naphthalene



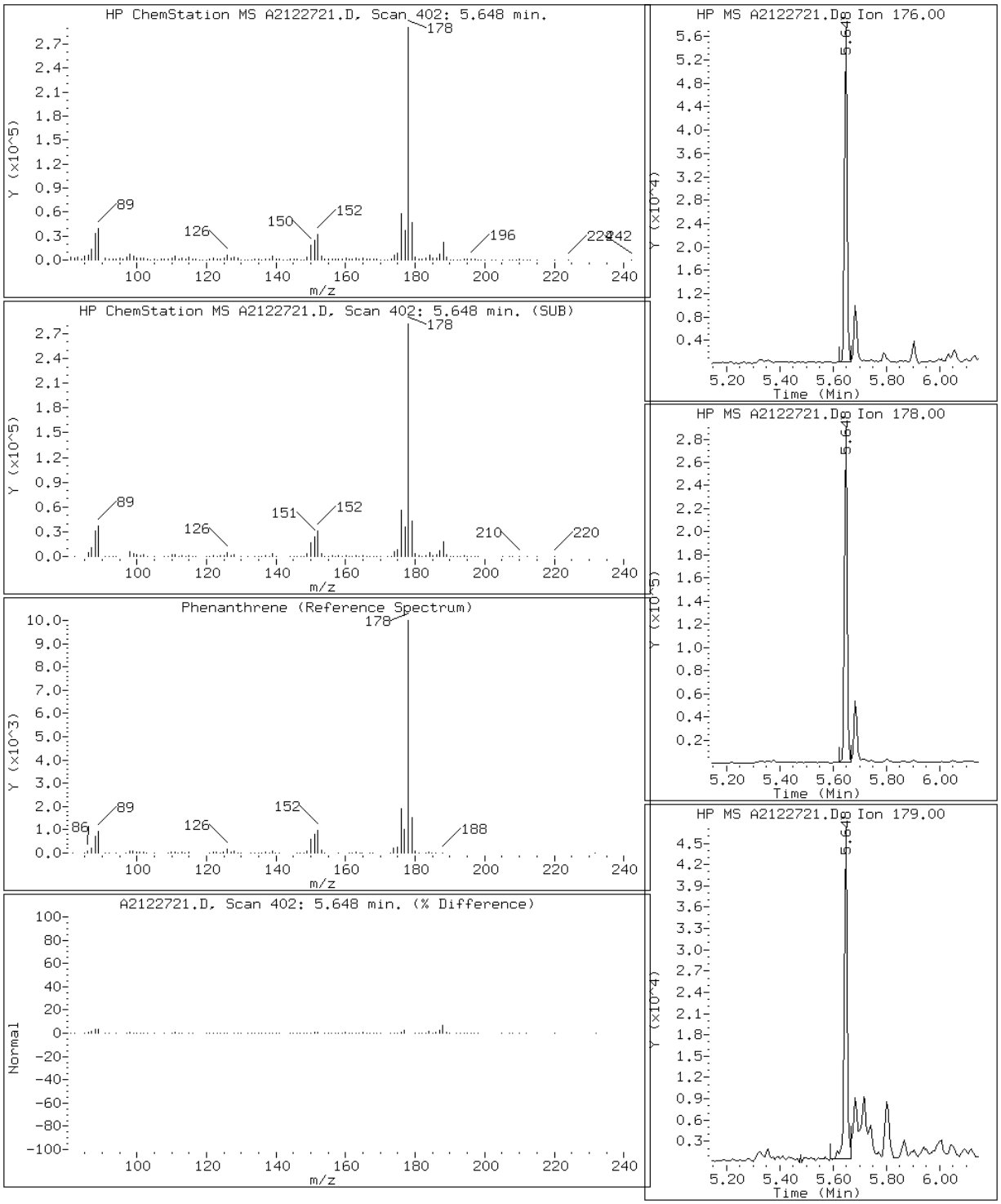
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

10 Phenanthrene



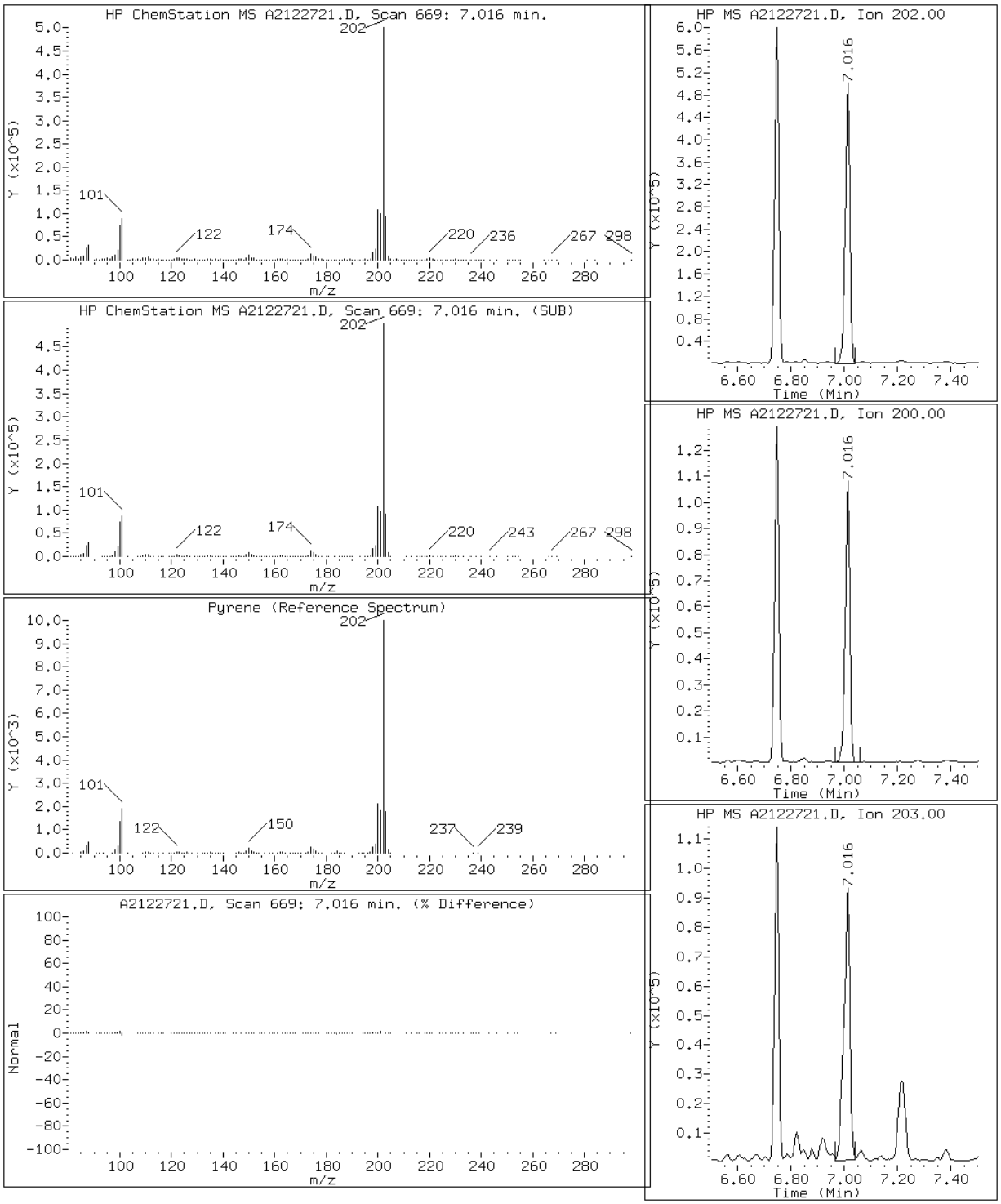
Data File: A2122721.D

Date: 27-DEC-2012 13:58

Client ID: CV0511Z-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-59-A~98123~1~8270D/625 Operator: VW

15 Pyrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511AA-CS | Lab Sample ID: 680-85785-60

Matrix: Solid | Lab File ID: A2122732.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 15:20

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.35(g) | Date Analyzed: 12/27/2012 20:16

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

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

% Moisture: 32.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98315 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	760		97	8.4
208-96-8	Acenaphthylene	16	J	97	7.7
120-12-7	Anthracene	1100		97	9.6
56-55-3	Benzo[a]anthracene	1700	B	97	9.0
50-32-8	Benzo[a]pyrene	1400	B	97	9.9
205-99-2	Benzo[b]fluoranthene	2200	B	97	14
191-24-2	Benzo[g,h,i]perylene	240	B	97	16
207-08-9	Benzo[k]fluoranthene	840	B	97	9.3
218-01-9	Chrysene	1600	B	97	11
53-70-3	Dibenz(a,h)anthracene	130	B	97	9.4
206-44-0	Fluoranthene	3900	B	97	8.7
86-73-7	Fluorene	640		97	7.6
193-39-5	Indeno[1,2,3-cd]pyrene	340	B	97	16
90-12-0	1-Methylnaphthalene	160		97	7.7
91-57-6	2-Methylnaphthalene	220		97	7.6
91-20-3	Naphthalene	160		97	7.6
85-01-8	Phenanthrene	4700		97	6.4
129-00-0	Pyrene	3400	B	97	7.6

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\TSMA5973.i\1A121227.b\A2122732.D
Lab Smp Id: 680-85785-A-60-A Client Smp ID: CV0511AA-CS
Inj Date : 27-DEC-2012 20:16
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-60-A~98123~10~8270D/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: 27
Dil Factor: 10.00000
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	10.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	30.350	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	3.706	3.705	(1.000)	1410656	40.0000		
2 Naphthalene	128	3.716	3.720	(1.003)	13122	0.33026	110	
3 2-Methylnaphthalene	142	4.080	4.079	(1.101)	11506	0.45823	150	
4 1-Methylnaphthalene	142	4.131	4.135	(1.115)	8743	0.33646	110	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	760511	40.0000		
6 Acenaphthylene	152	4.582	4.581	(0.984)	1306	0.03204	10(aQ)	
7 Acenaphthene	153	4.674	4.678	(1.003)	39011	1.57233	520	
8 Fluorene	166	4.982	4.980	(1.069)	37547	1.31204	430	
* 9 Phenanthrene-d10	188	5.632	5.631	(1.000)	1190570	40.0000		
10 Phenanthrene	176	5.648	5.646	(1.003)	73424	9.64351	3200(Q)	
11 Anthracene	178	5.684	5.687	(1.009)	94725	2.32851	770	
$ 12 o-Terphenyl	230	5.899	5.903	(1.047)	7708	0.30635	100	
13 Fluoranthene	202	6.739	6.743	(1.196)	377778	7.99278	2600	
* 14 Chrysene-d12	240	8.737	8.736	(1.000)	1402726	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	7.004	(0.802)	334189	6.99021	2300	
16 Benzo(a)anthracene	226	8.706	8.700	(0.996)	45861	3.59048	1200	
17 Chrysene	228	8.768	8.772	(1.004)	146798	3.37667	1100	
* 18 Perylene-d12	264	11.227	11.241	(1.000)	947592	40.0000		
19 Benzo(b)fluoranthene	252	10.541	10.544	(0.939)	134450	4.60091	1500	
20 Benzo(k)fluoranthene	252	10.582	10.596	(0.943)	51951	1.74067	570	
21 Benzo(a)pyrene	252	11.104	11.113	(0.989)	78146	2.95963	980	
22 Indeno(1,2,3-cd)pyrene	276	12.979	12.993	(1.156)	18549	0.69707	230(M)	SP
23 Dibenzo(a,h)anthracene	278	13.020	13.039	(1.160)	7110	0.26374	87	
24 Benzo(g,h,i)perylene	276	13.420	13.444	(1.195)	13234	0.50201	160	

QC Flag Legend

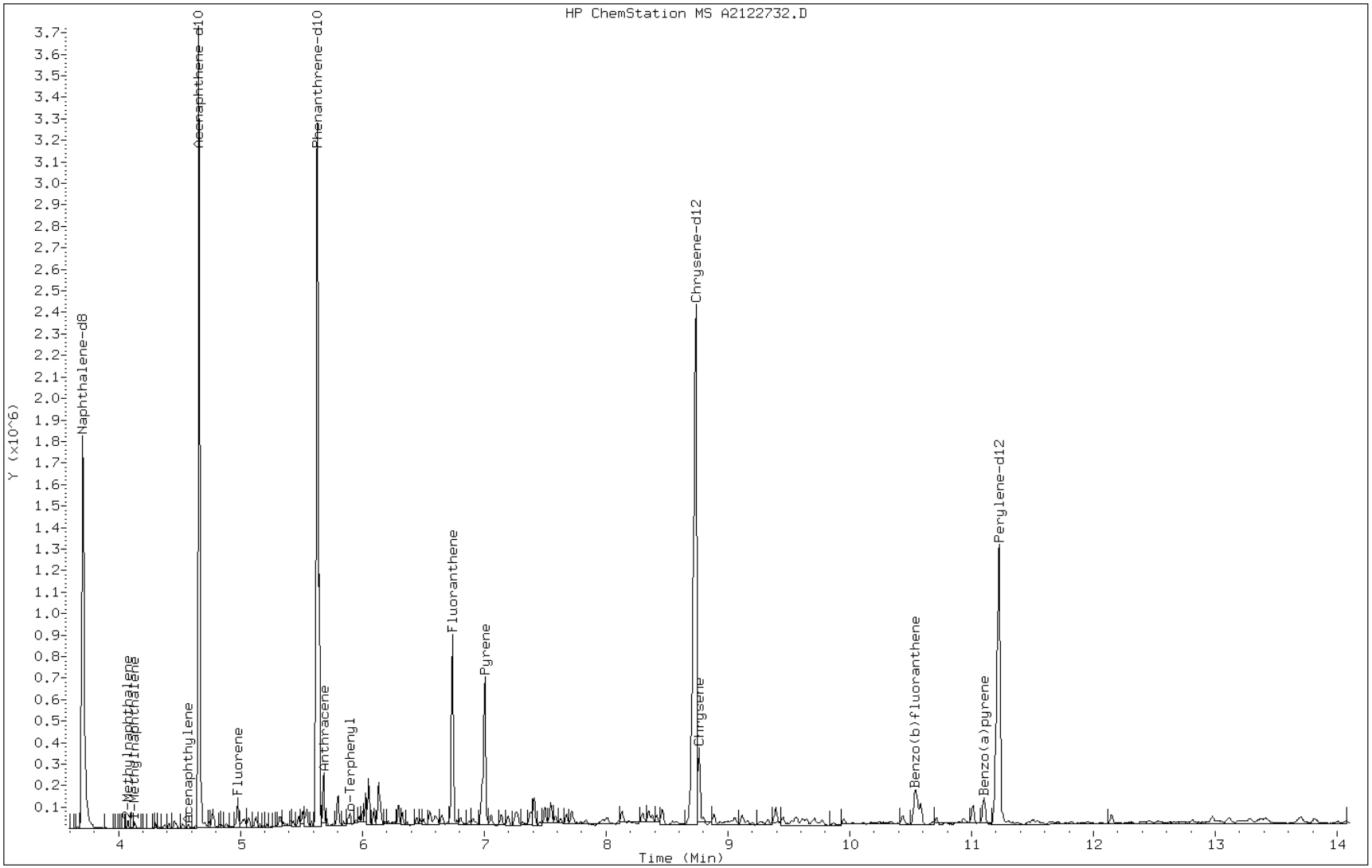
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW



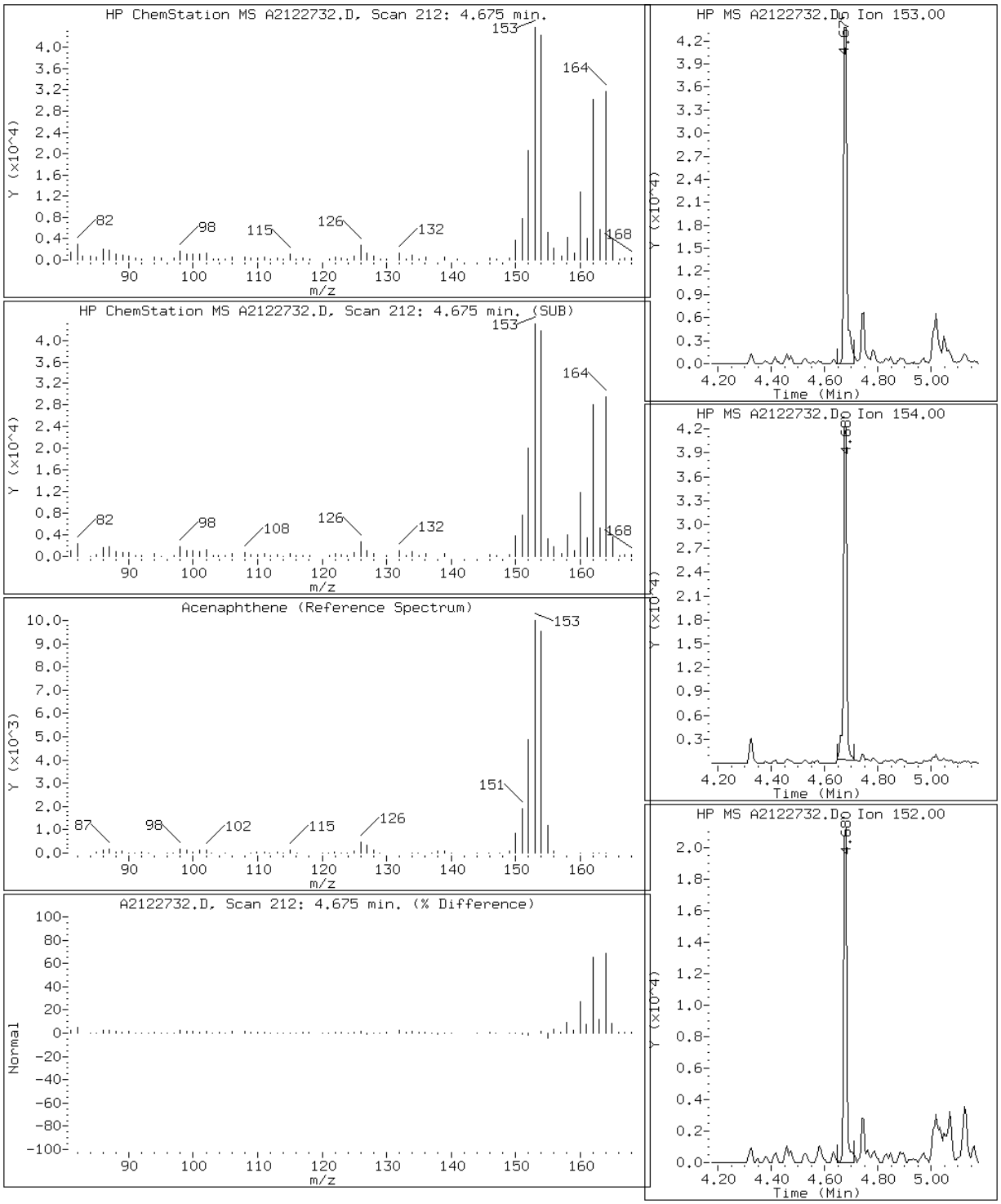
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

7 Acenaphthene



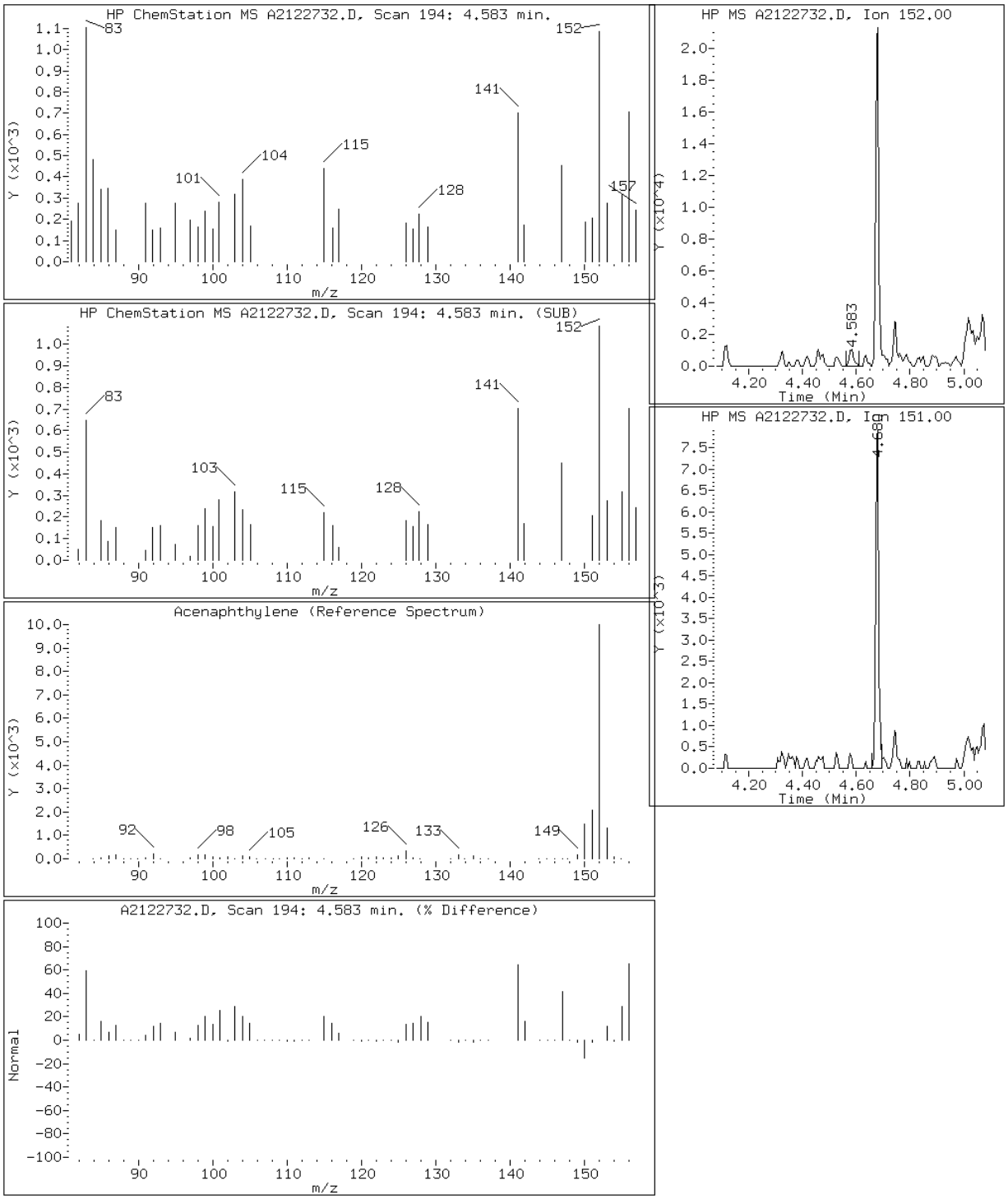
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

6 Acenaphthylene



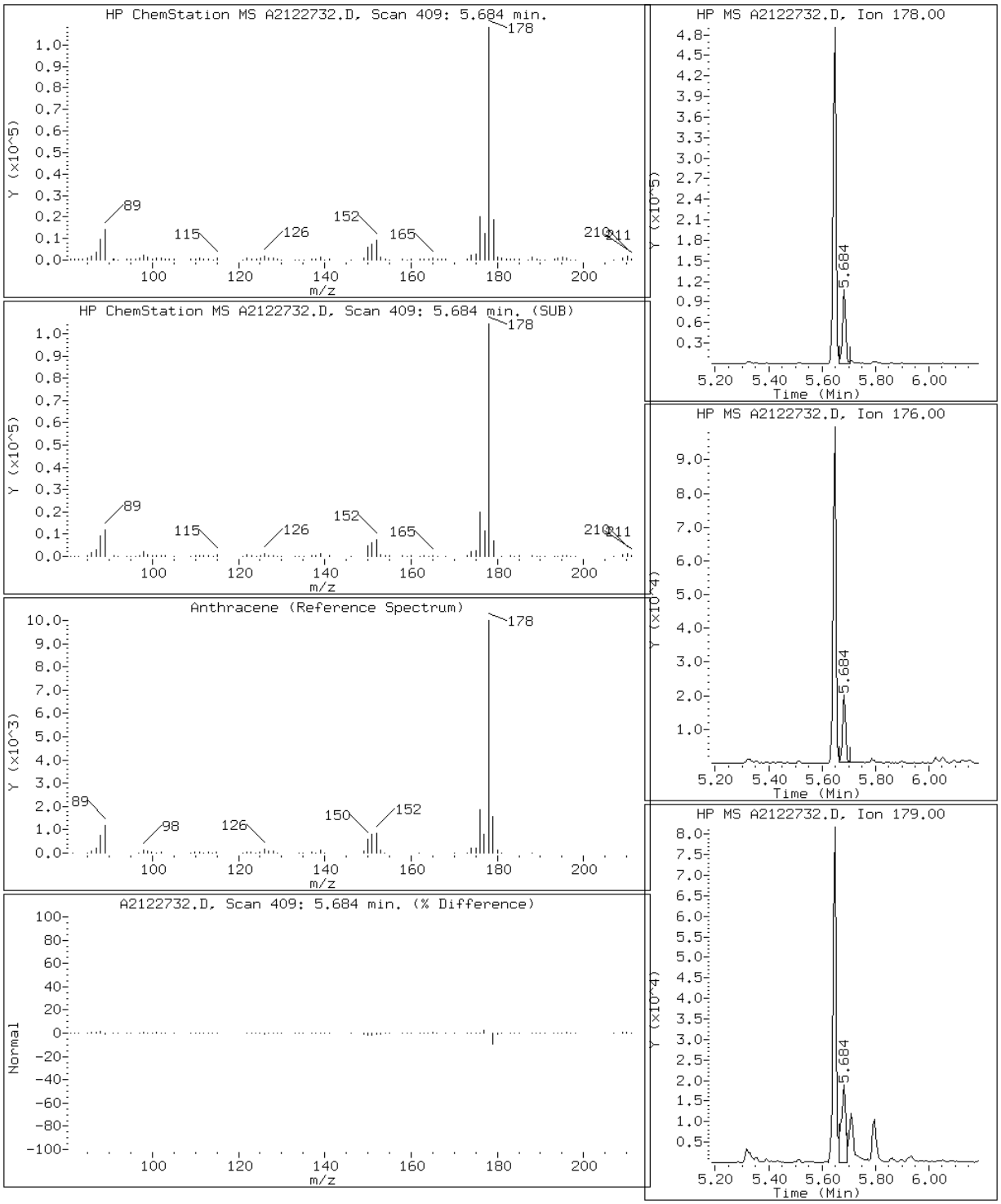
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

11 Anthracene



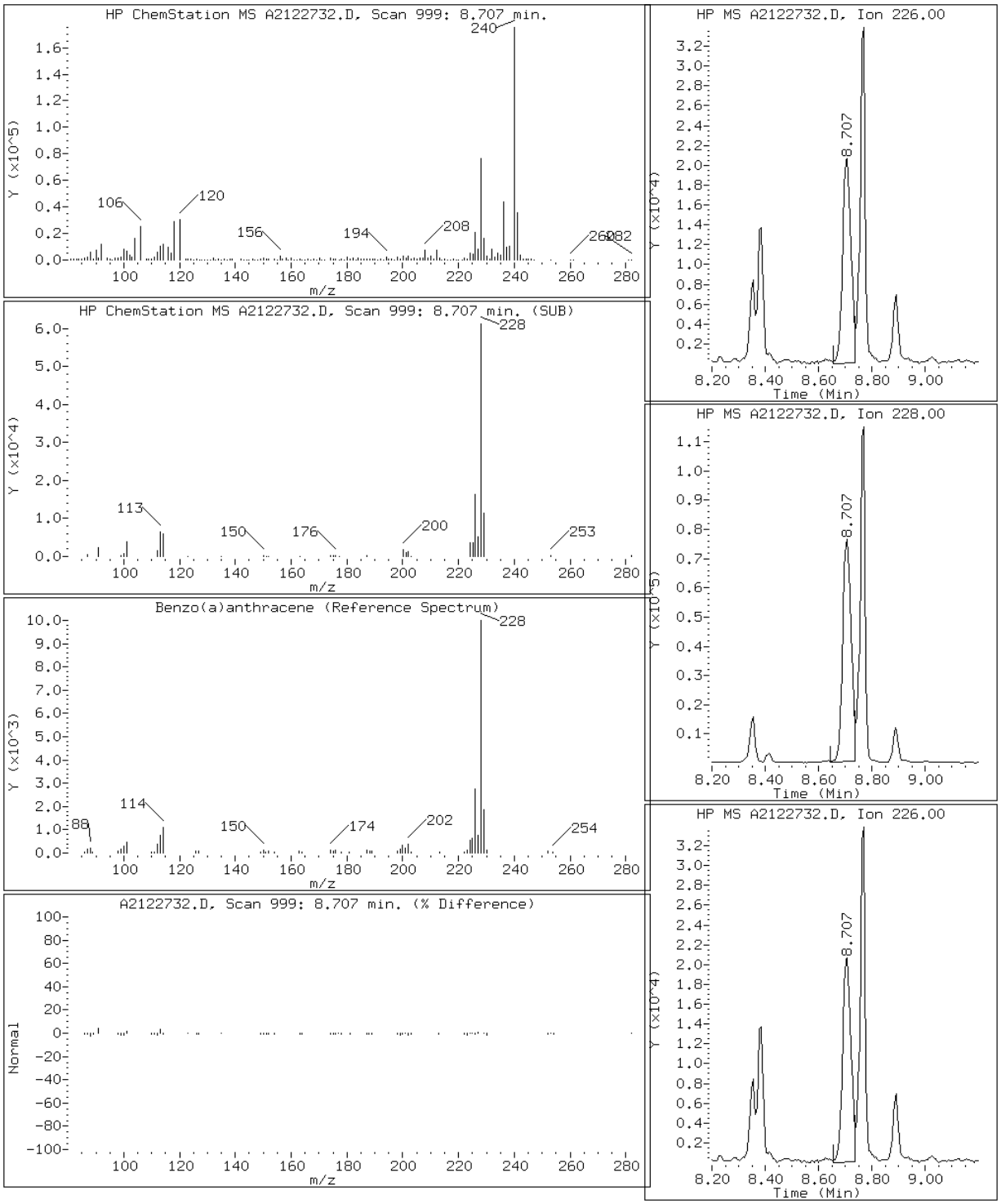
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

16 Benzo(a)anthracene



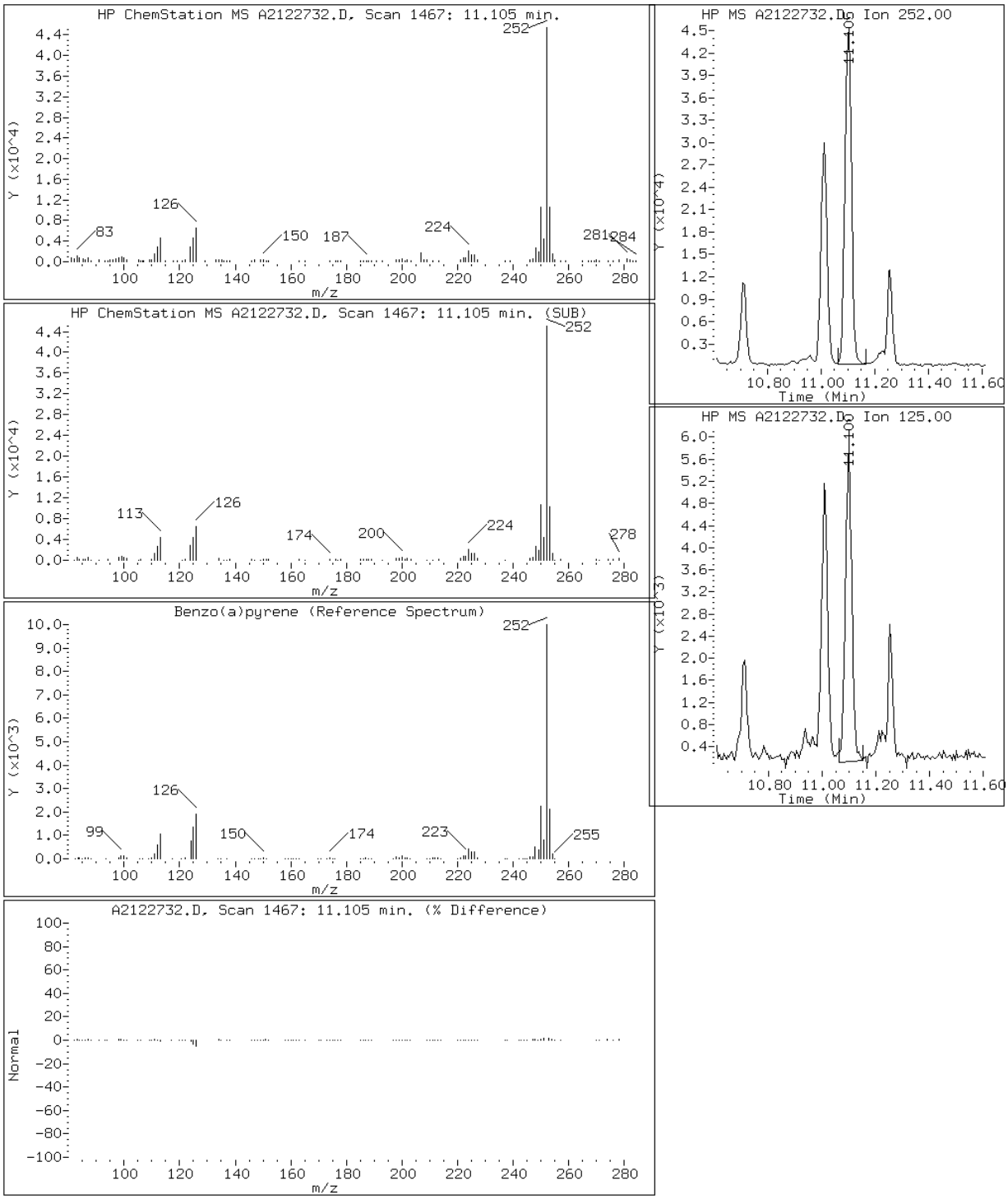
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

21 Benzo(a)pyrene



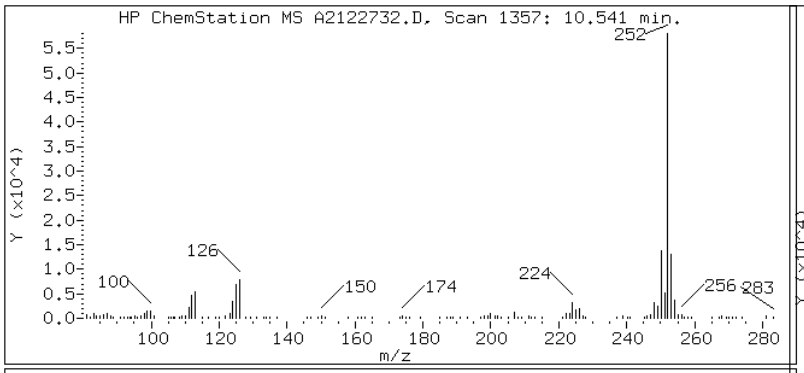
Data File: A2122732.D

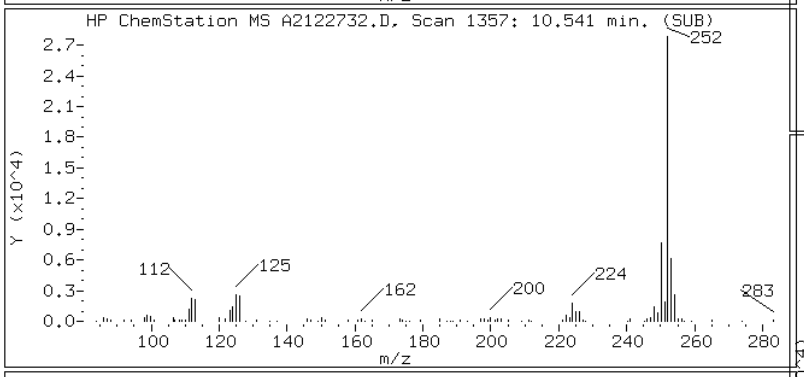
Date: 27-DEC-2012 20:16

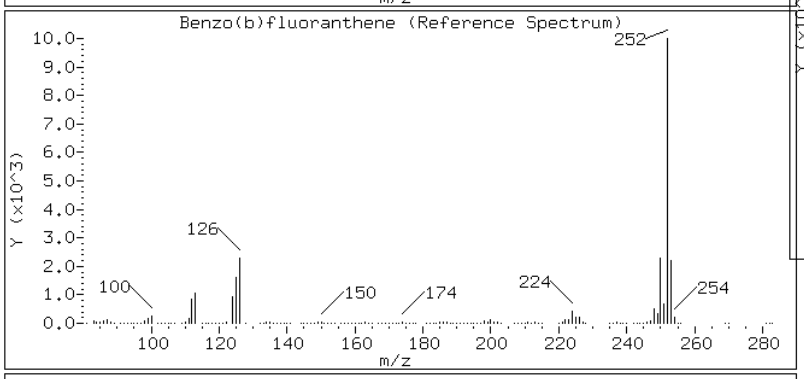
Client ID: CV0511AA-CS Instrument: TSMA5973.i

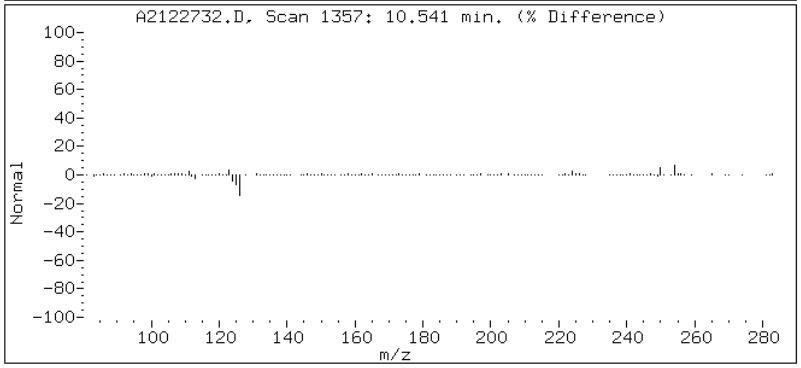
Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

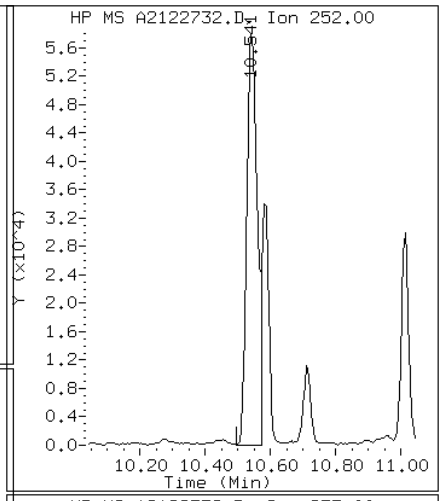
19 Benzo(b)fluoranthene

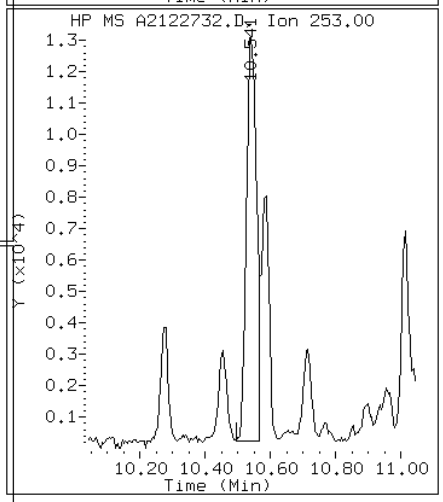












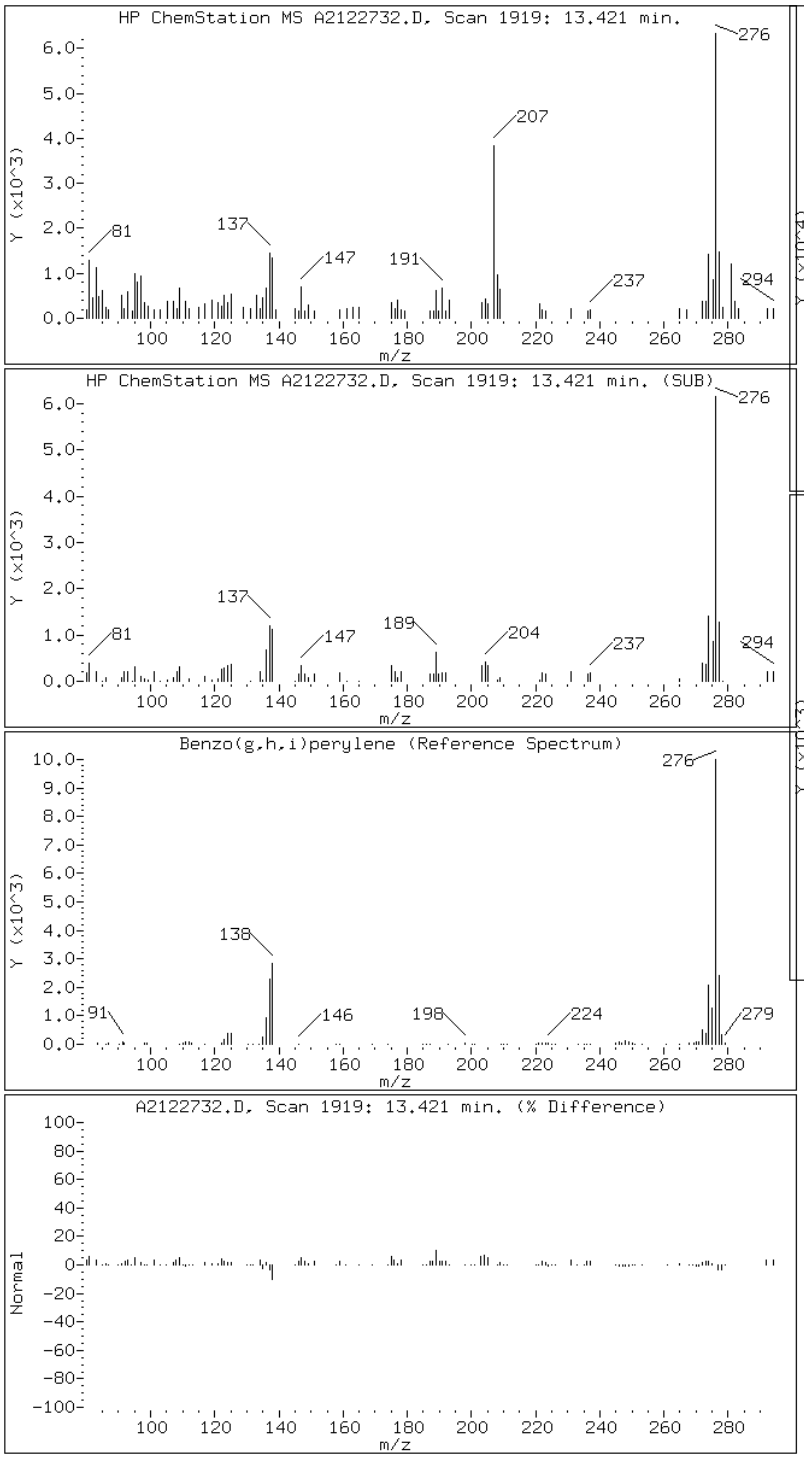
Data File: A2122732.D

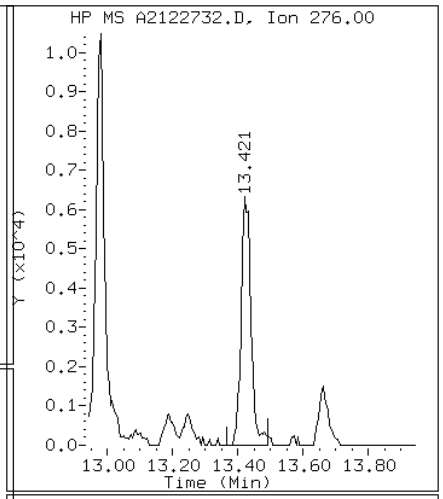
Date: 27-DEC-2012 20:16

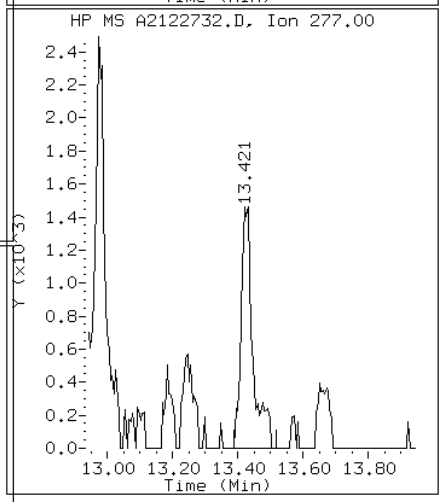
Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

24 Benzo(g,h,i)perylene







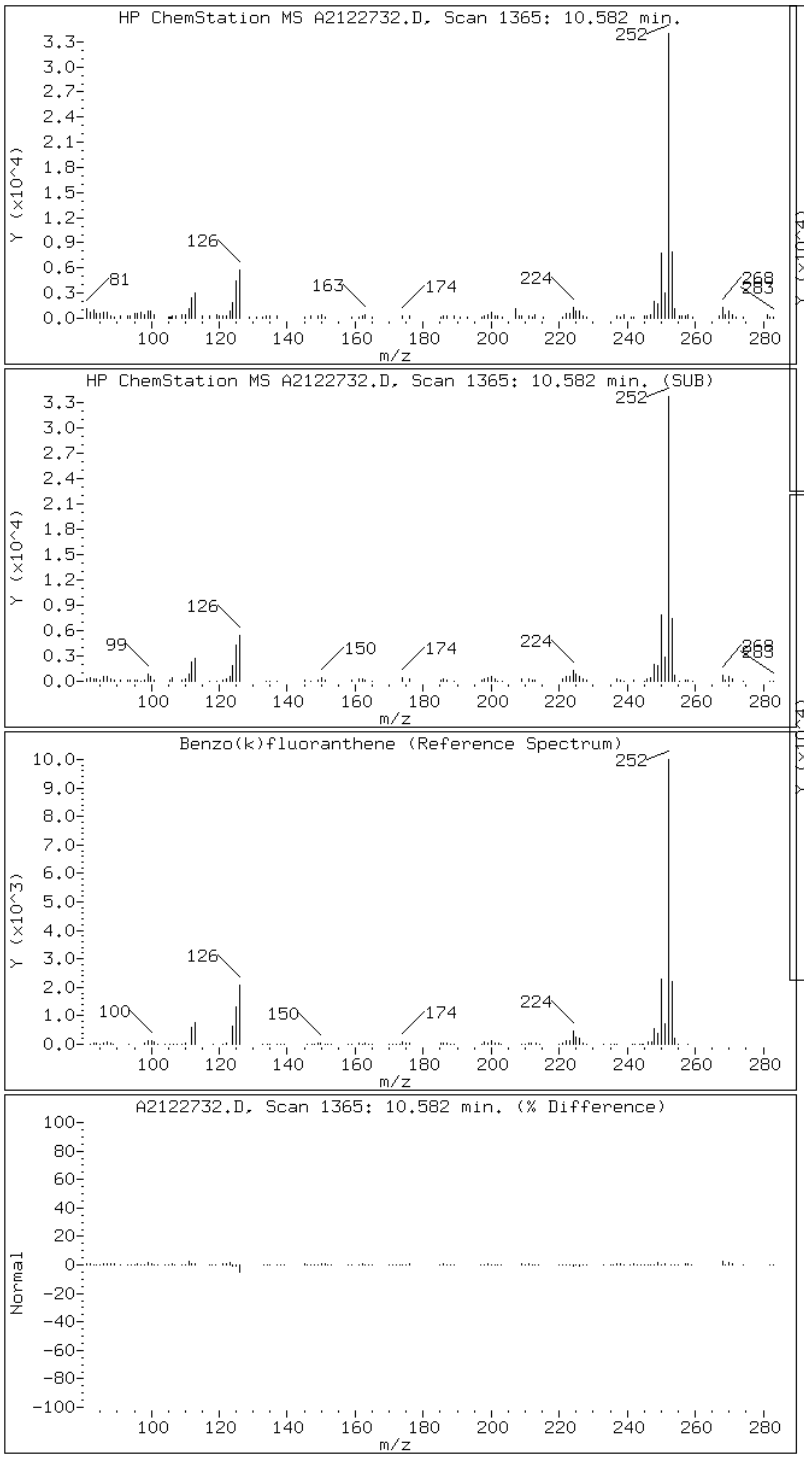
Data File: A2122732.D

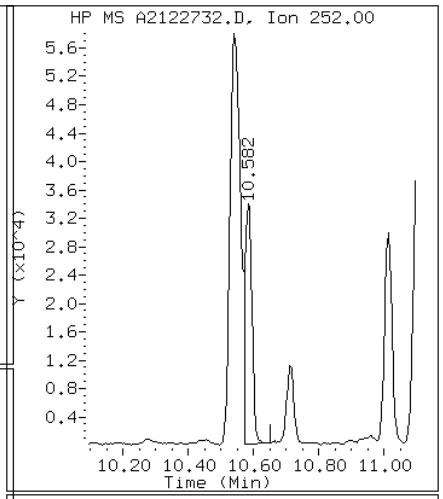
Date: 27-DEC-2012 20:16

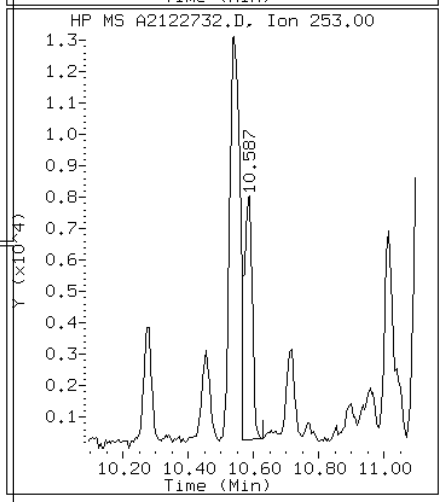
Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

20 Benzo(k)fluoranthene







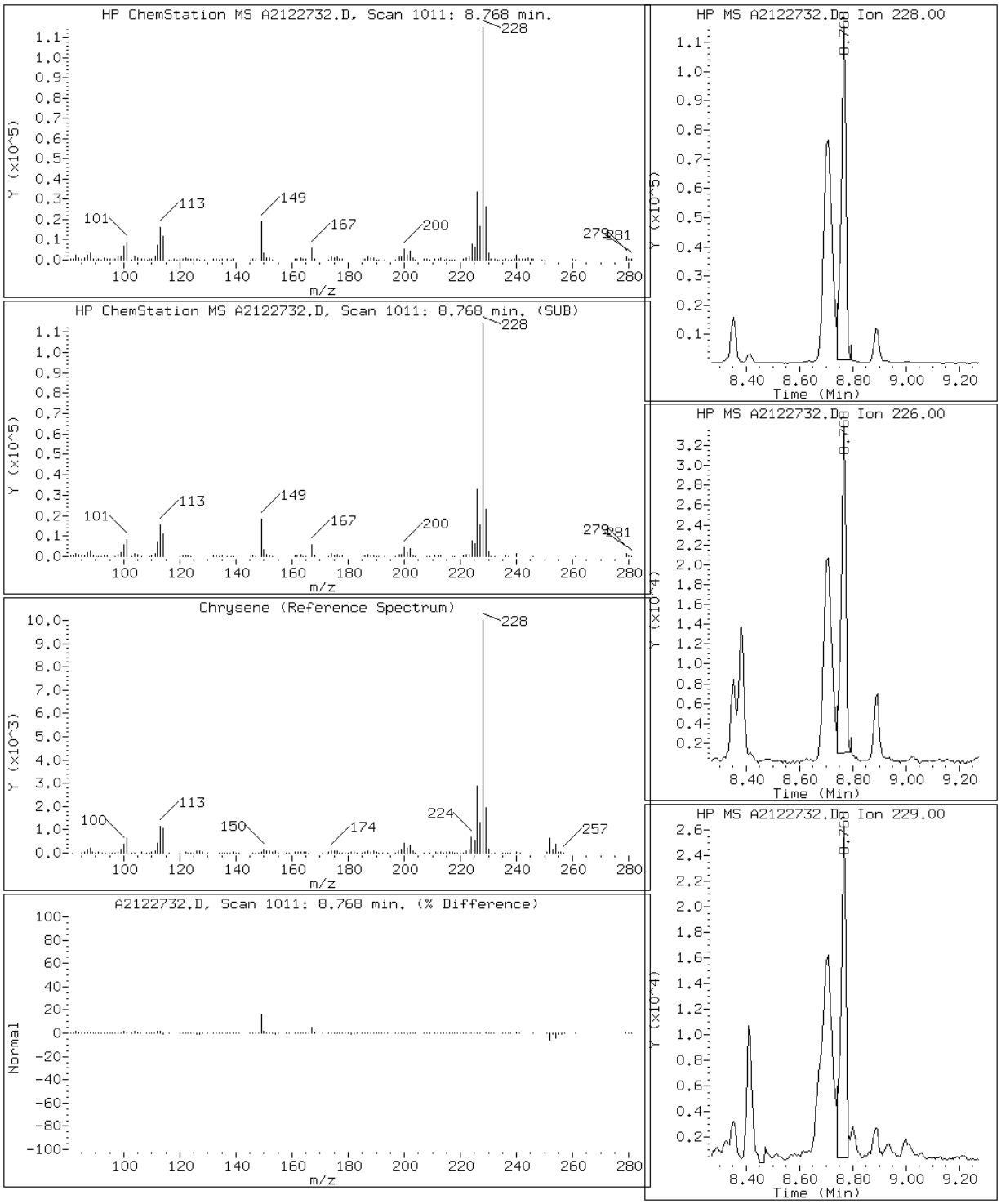
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

17 Chrysene



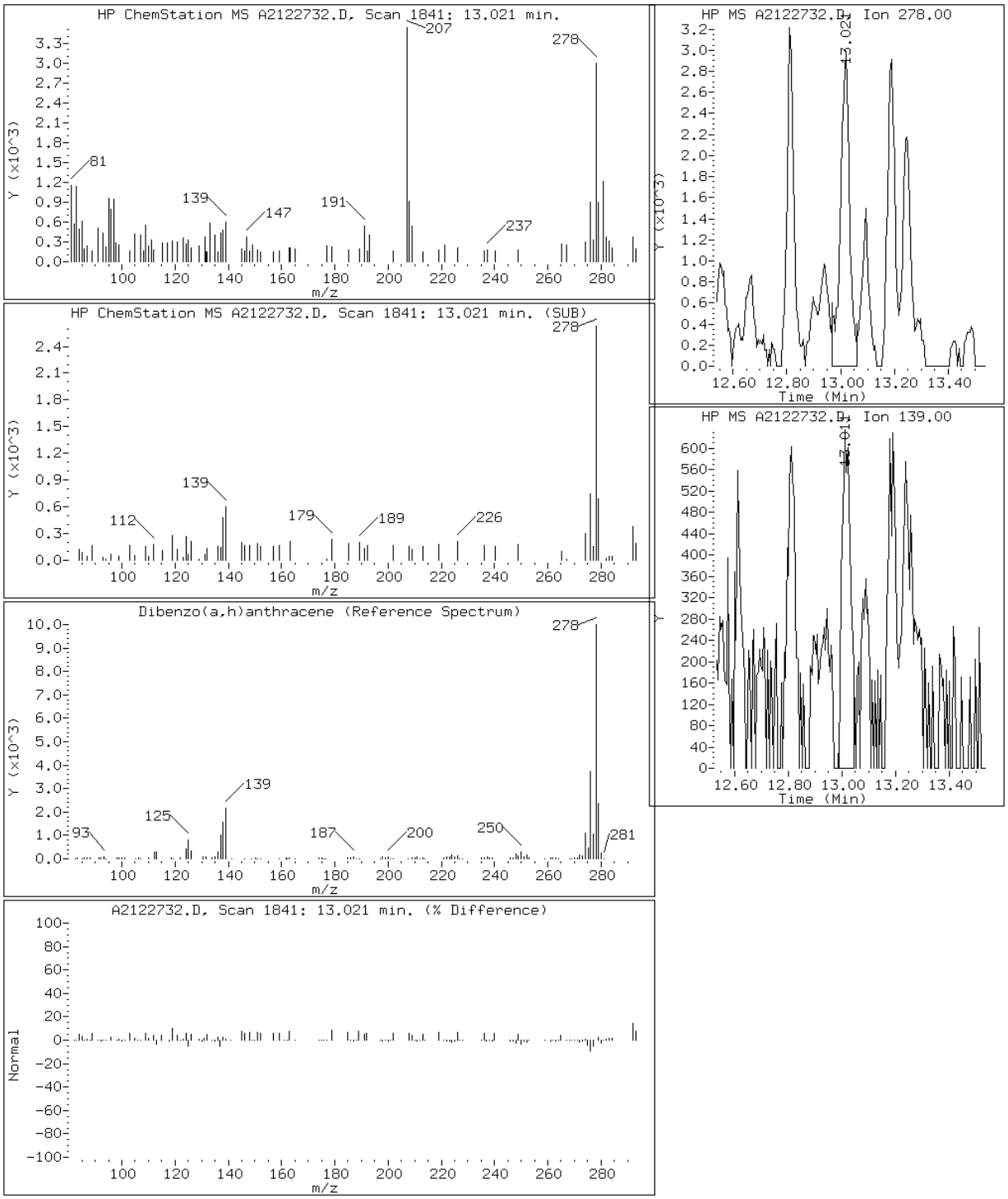
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

23 Dibenzo(a,h)anthracene



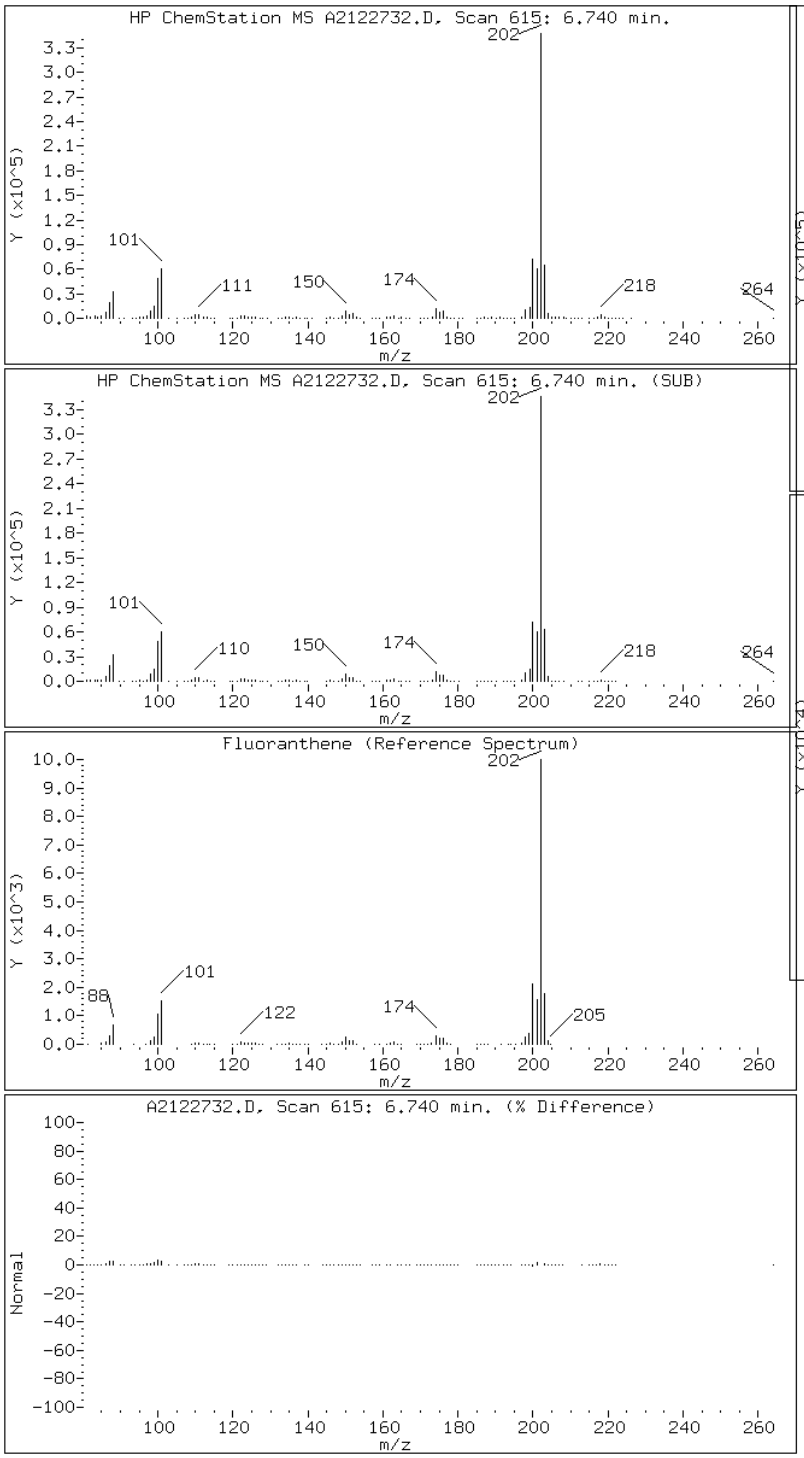
Data File: A2122732.D

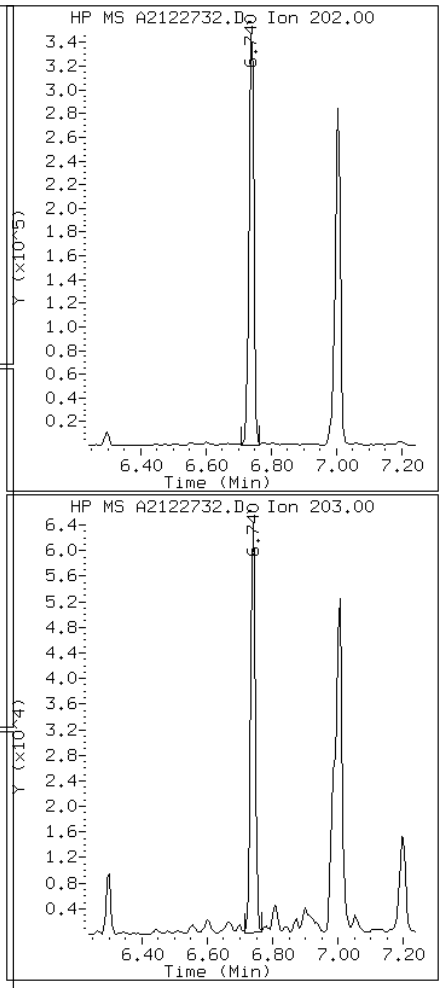
Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

13 Fluoranthene





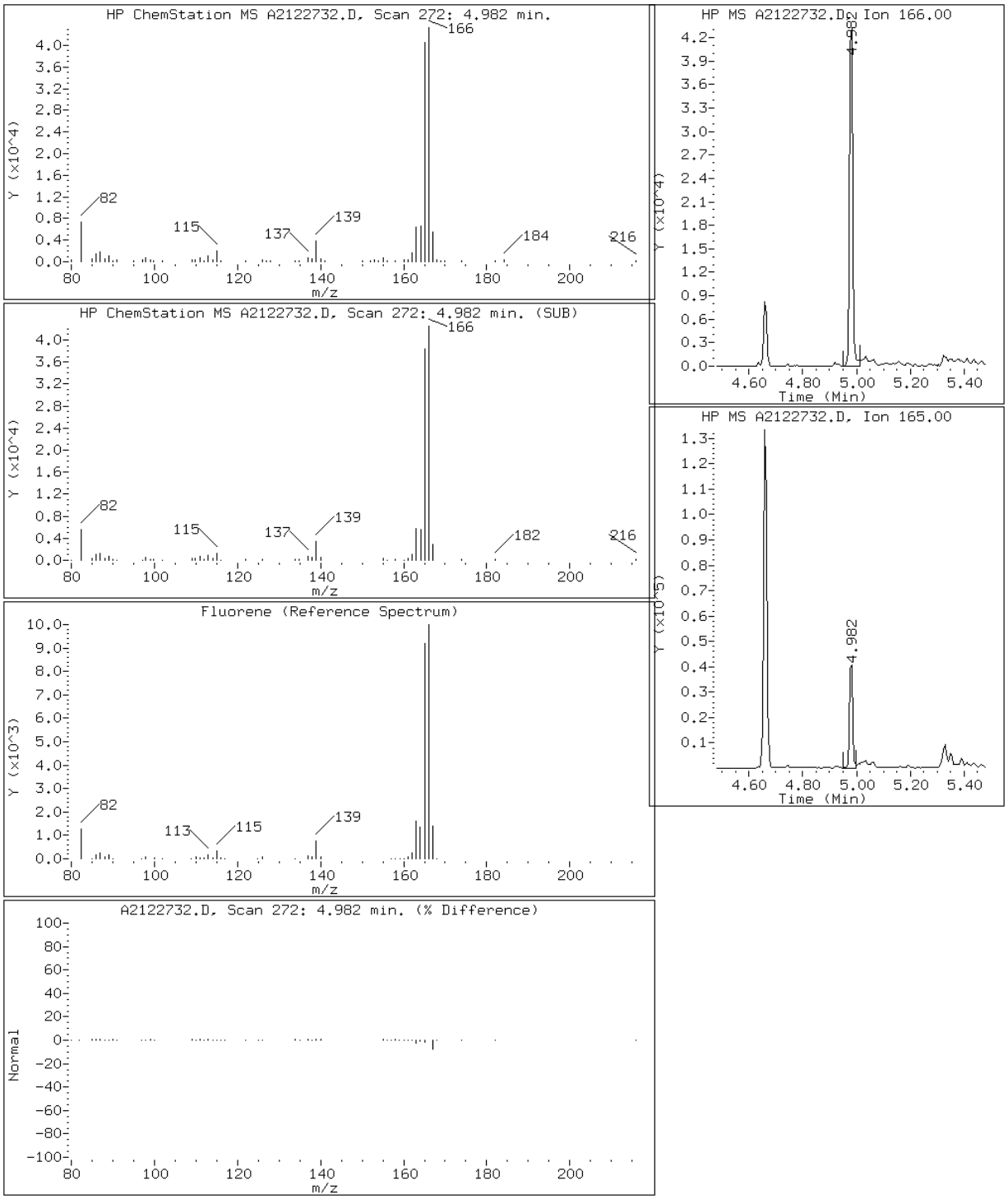
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

8 Fluorene



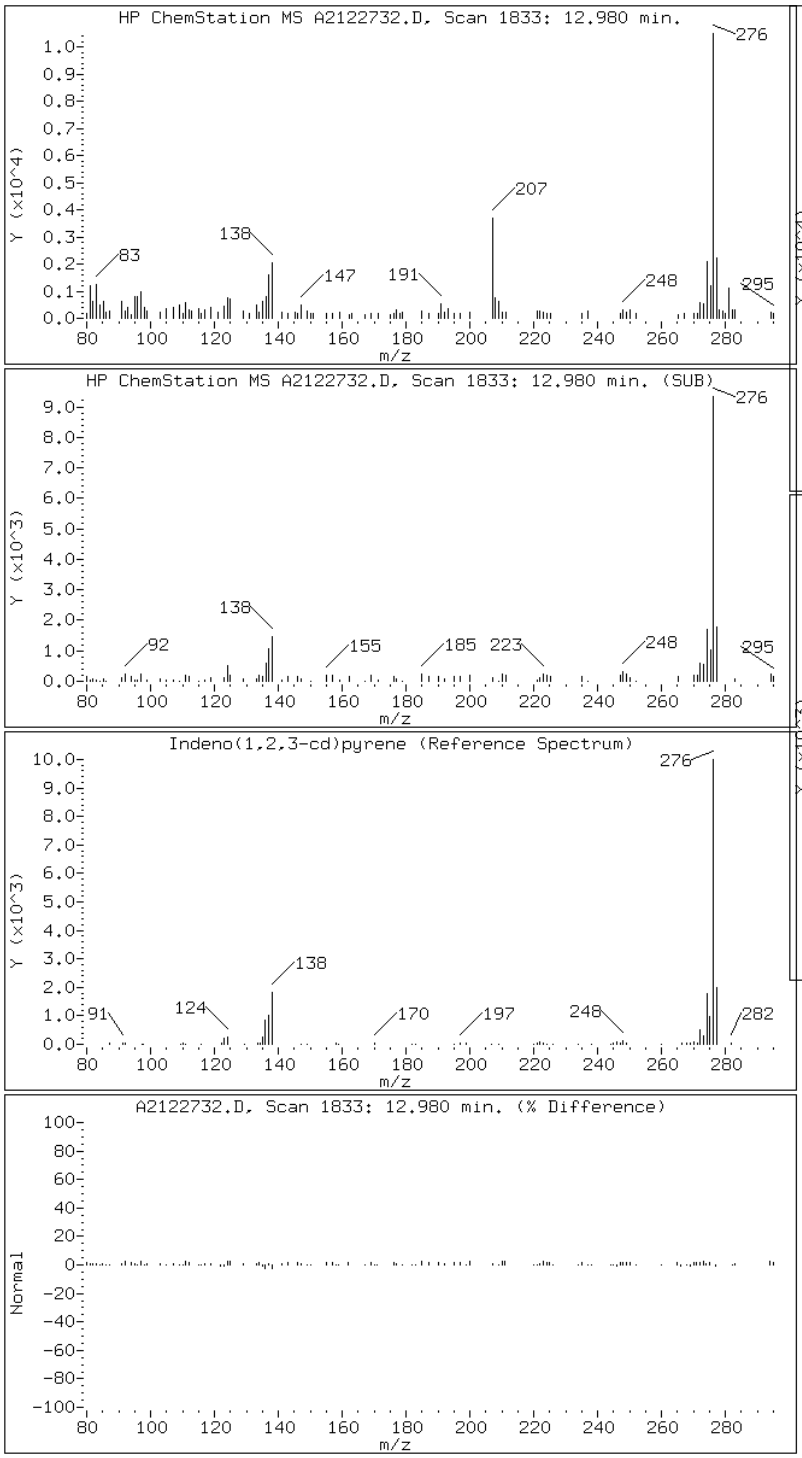
Data File: A2122732.D

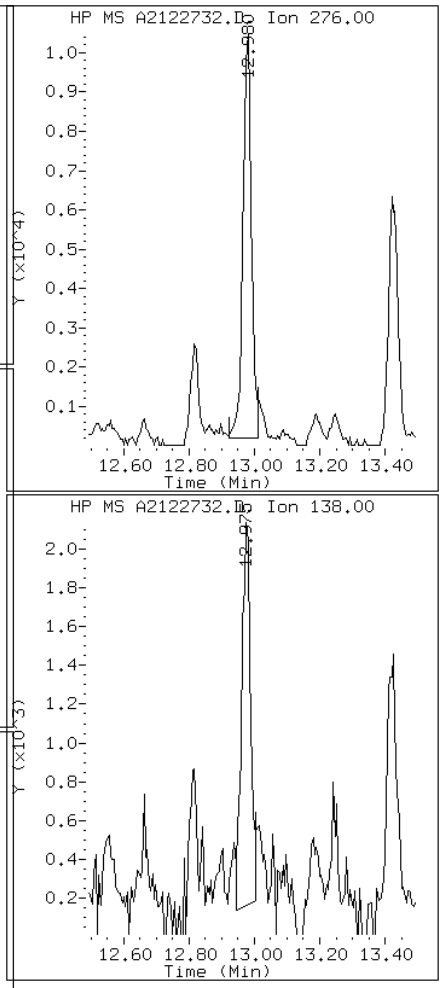
Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

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





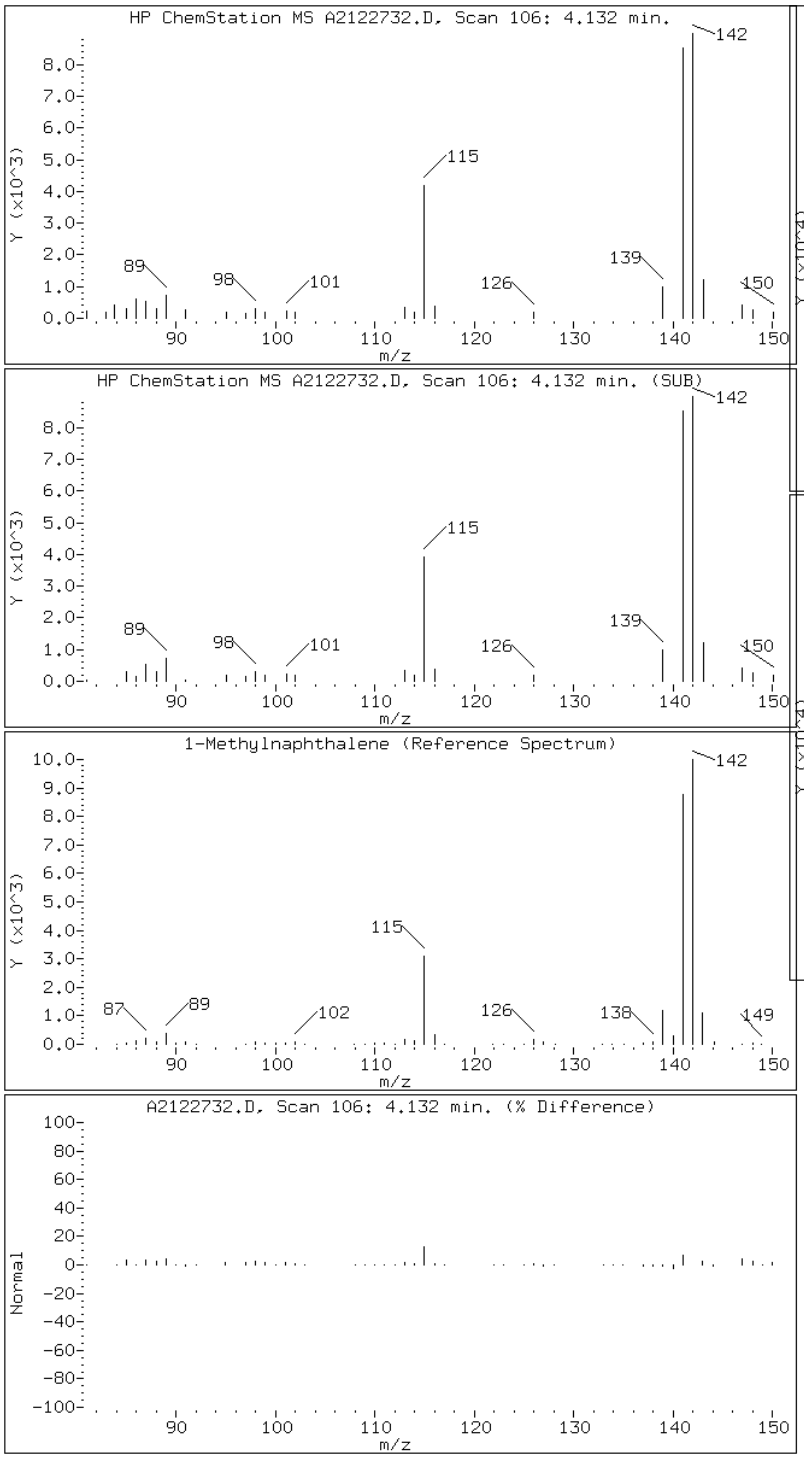
Data File: A2122732.D

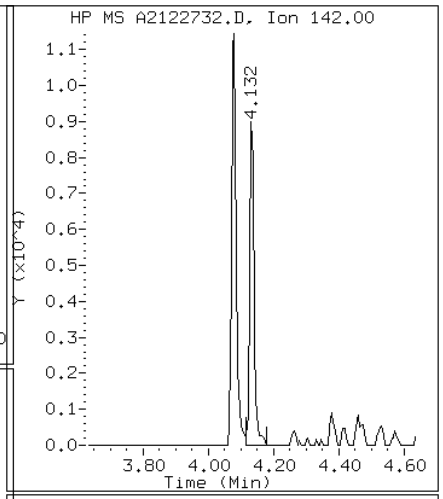
Date: 27-DEC-2012 20:16

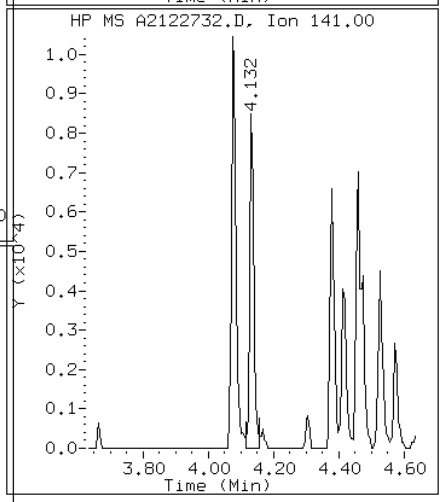
Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

4 1-Methylnaphthalene







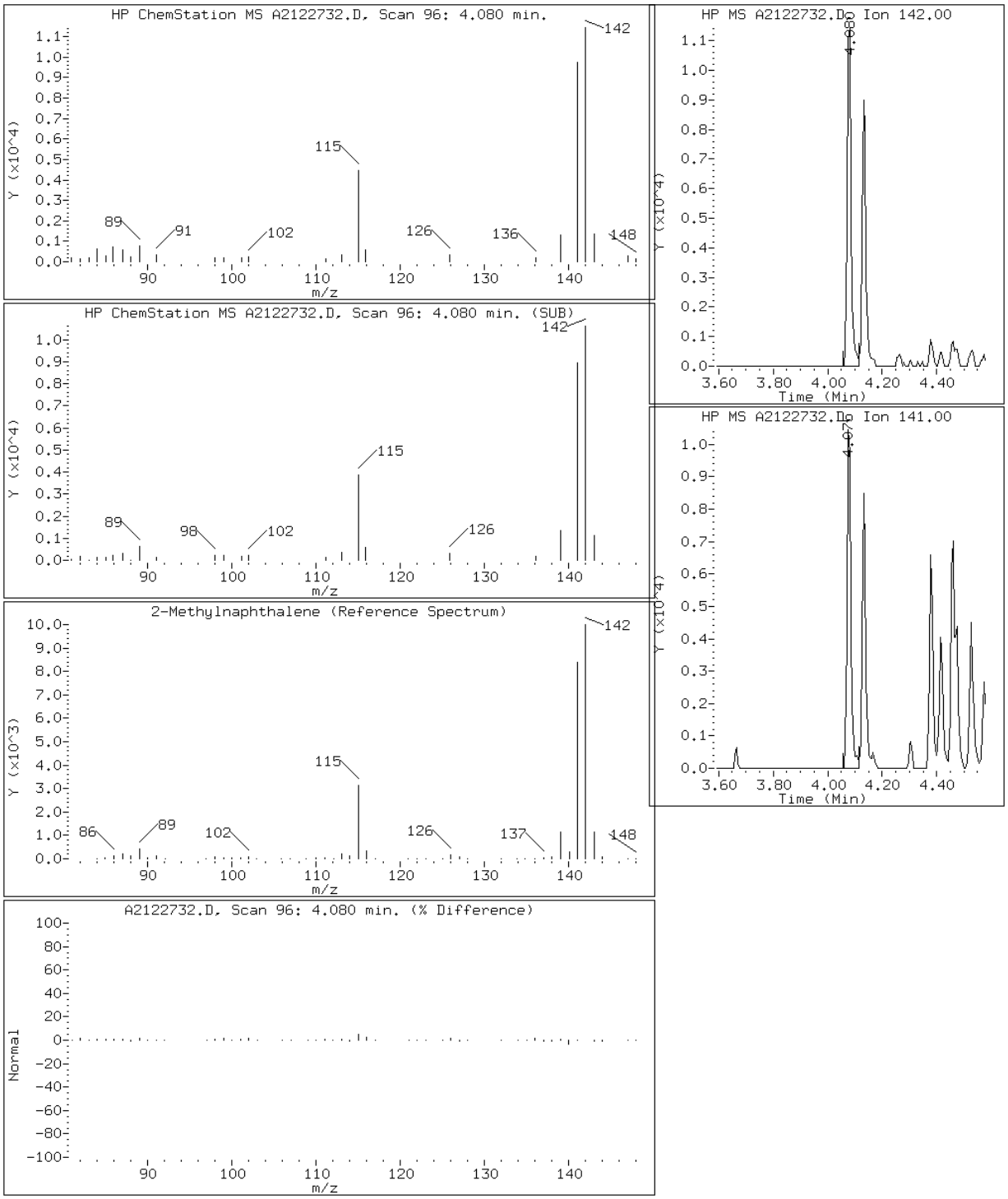
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

3 2-Methylnaphthalene



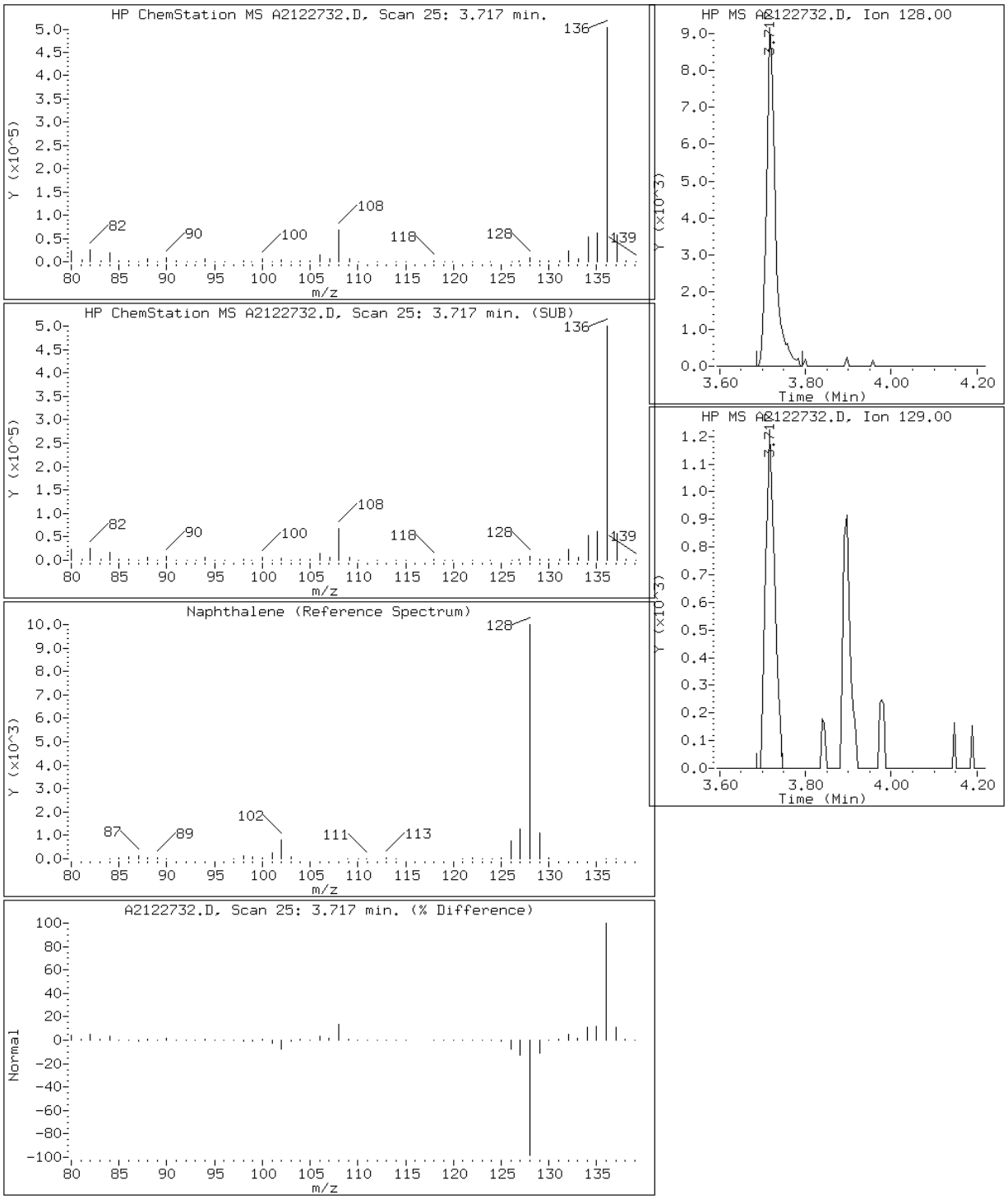
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

2 Naphthalene



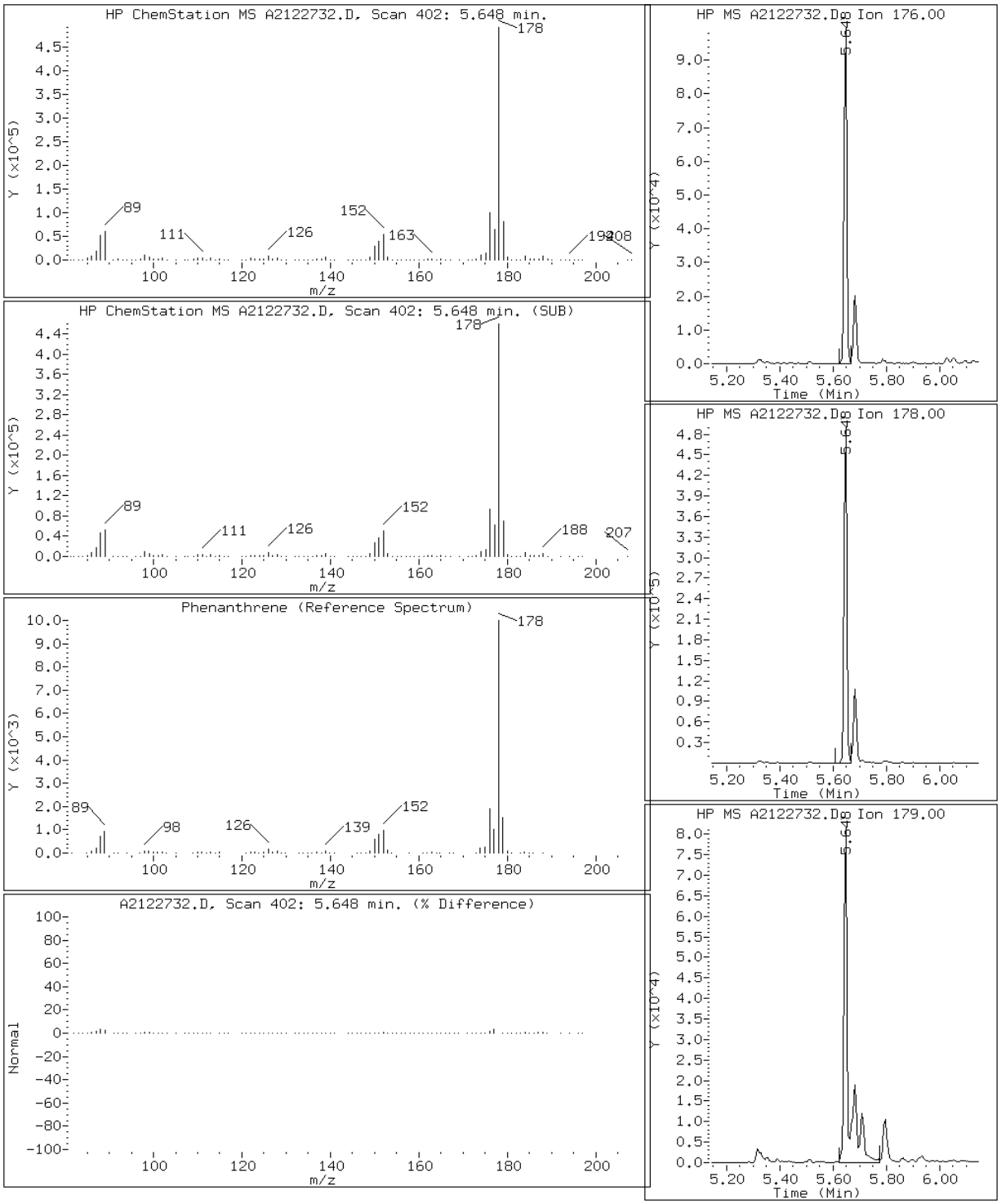
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

10 Phenanthrene



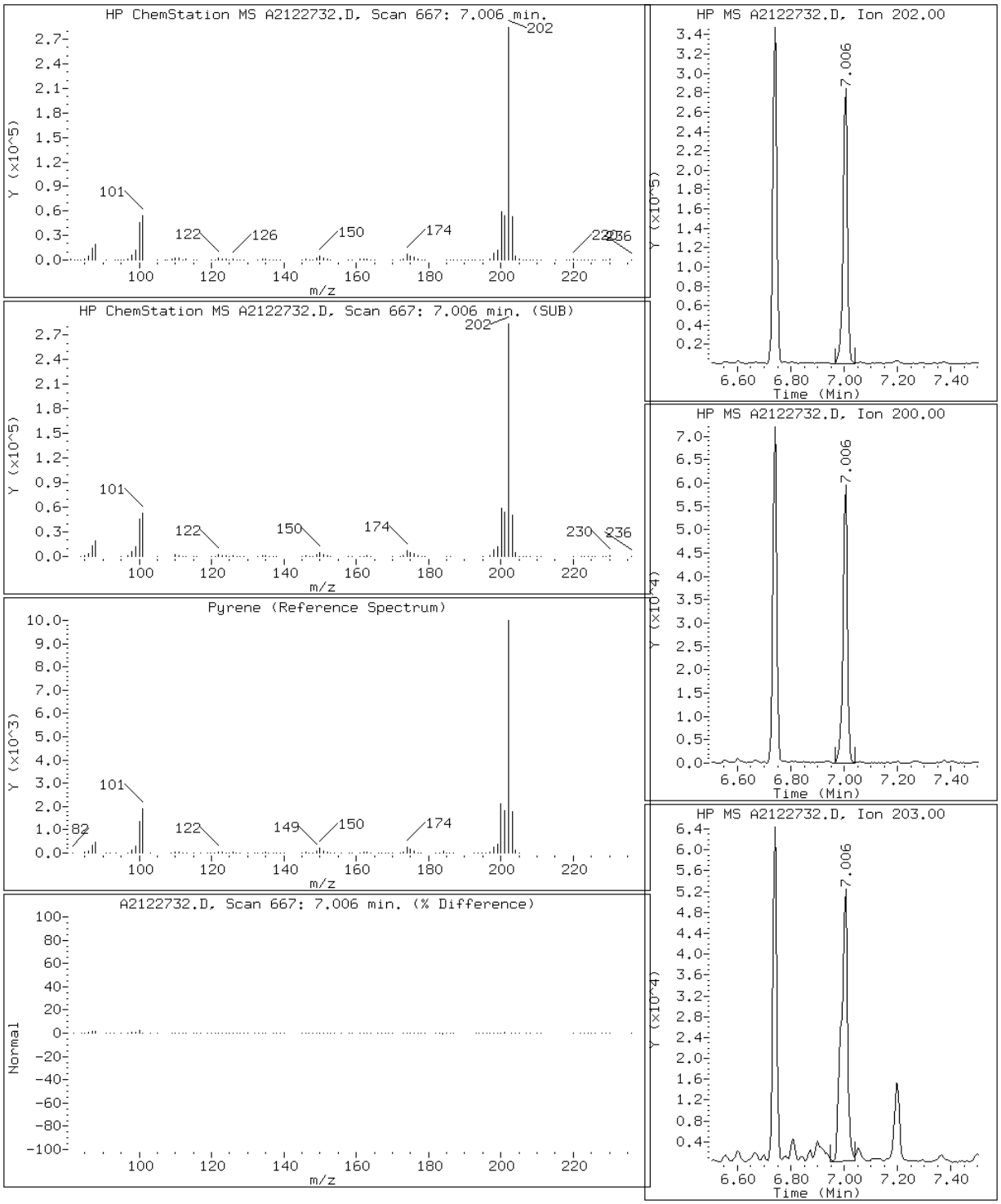
Data File: A2122732.D

Date: 27-DEC-2012 20:16

Client ID: CV0511AA-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-60-A~98123~10~8270D/625 Operator: VW

15 Pyrene



Manual Integration Report

Data File: A2122732.D
Inj. Date and Time: 27-DEC-2012 20:16
Instrument ID: TSMA5973.i
Client ID: CV0511AA-CS
Compound: 22 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 12/28/2012

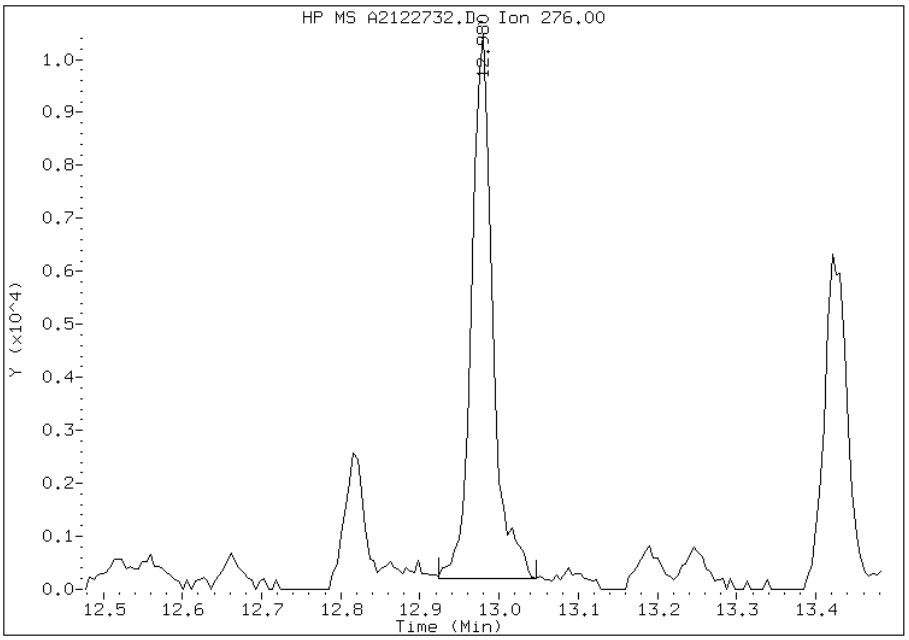
Processing Integration Results

RT: 12.98

Response: 19462

Amount: 1

Conc: 241



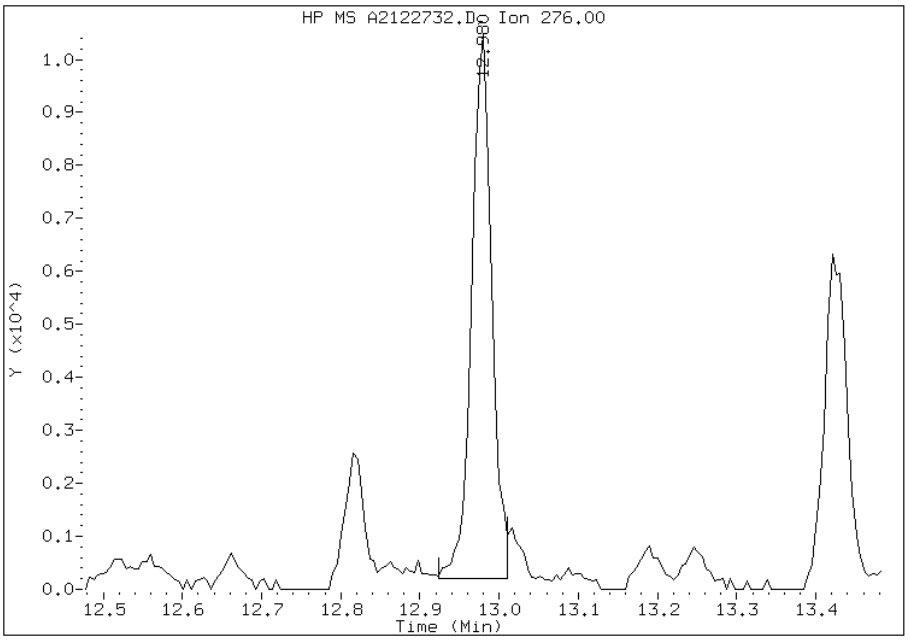
Manual Integration Results

RT: 12.98

Response: 18549

Amount: 1

Conc: 230



Manually Integrated By: mfrank
Modification Date: 28-Dec-2012 10:49
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3 Analy Batch No.: 98324

SDG No.: 68085785-3

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.: 680-85785-3 Analy Batch No.: 98324

SDG No.: 68085785-3

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.: 680-85785-3 Analy Batch No.: 98324

SDG No.: 68085785-3

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.: 680-85785-3 Analy Batch No.: 98324

SDG No.: 68085785-3

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

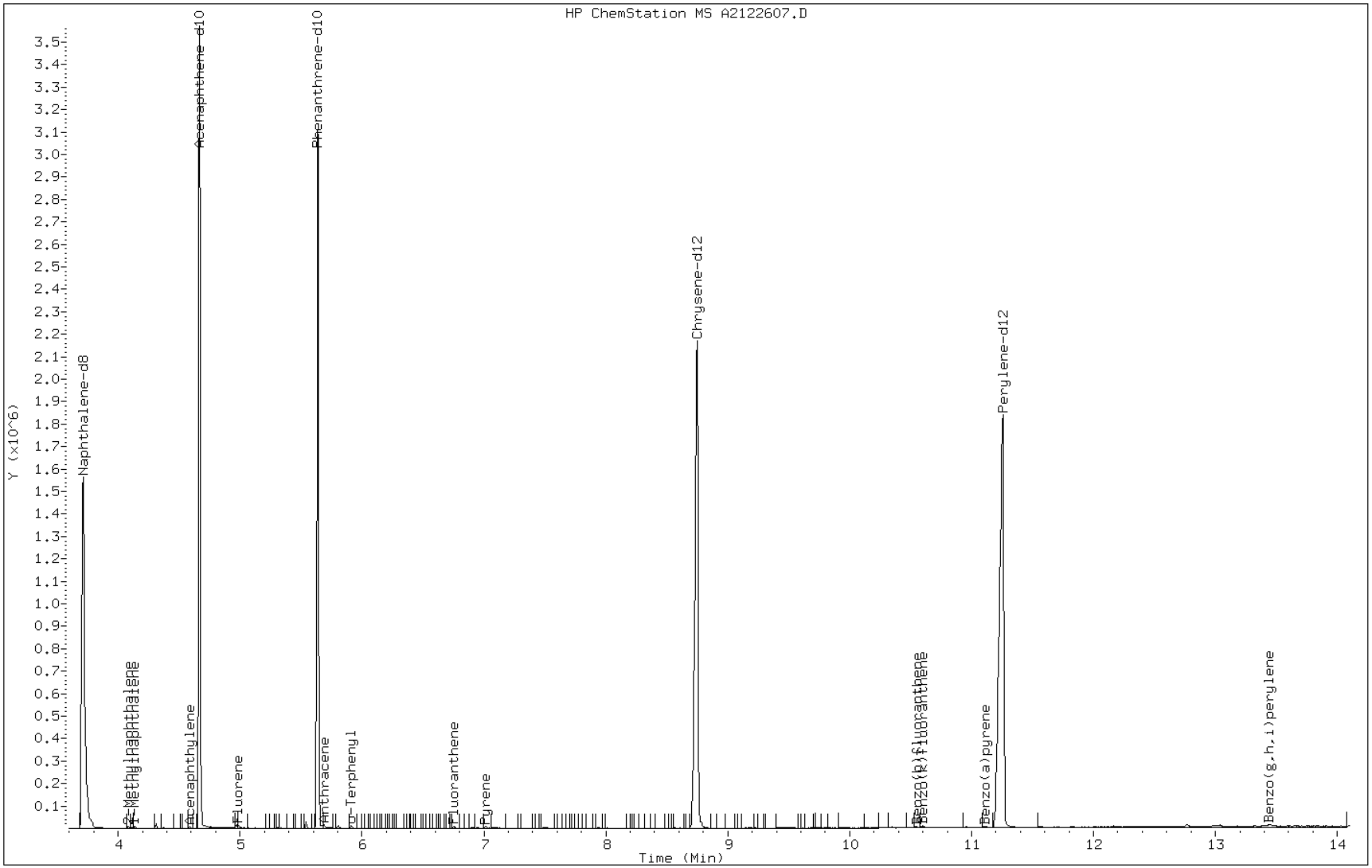
M - Compound response manually integrated.

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

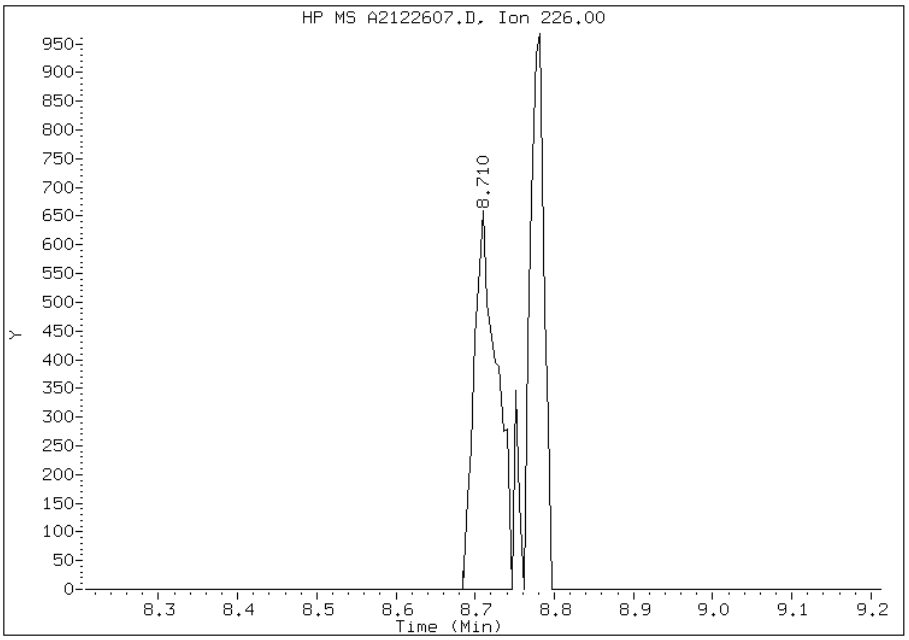
Processing Integration Results

RT: 8.71

Response: 1333

Amount: 0

Conc: 0



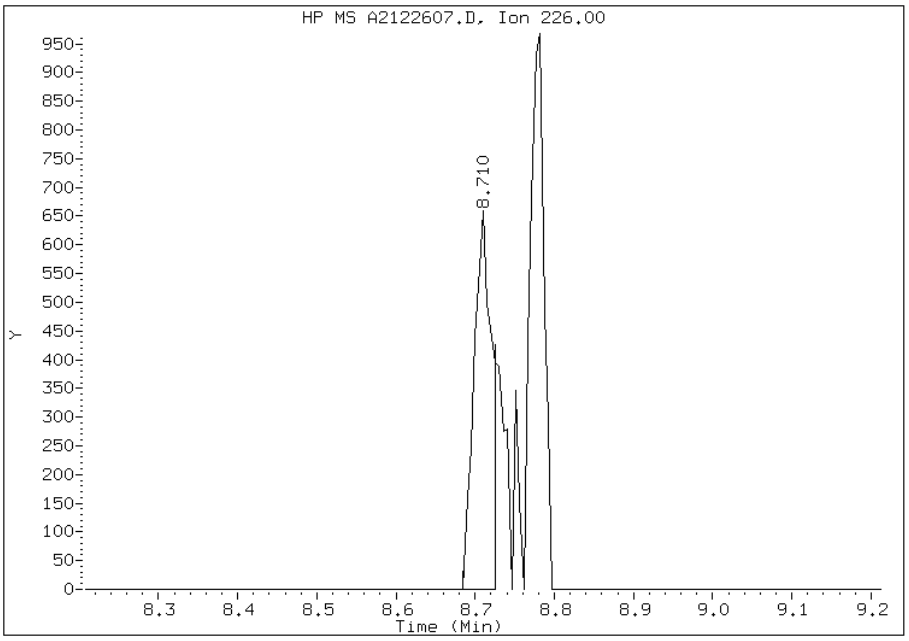
Manual Integration Results

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

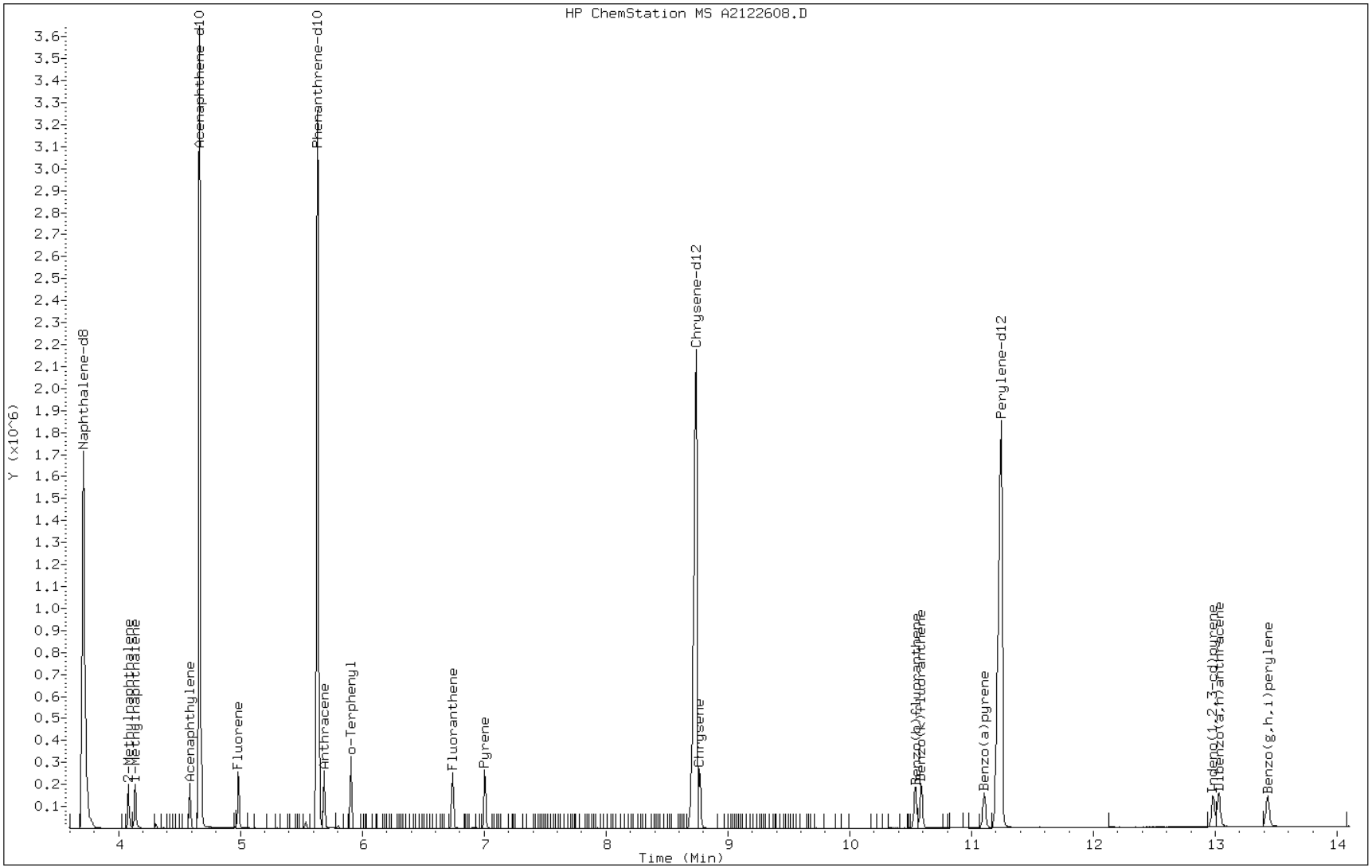
Q - Qualifier signal failed the ratio test.

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

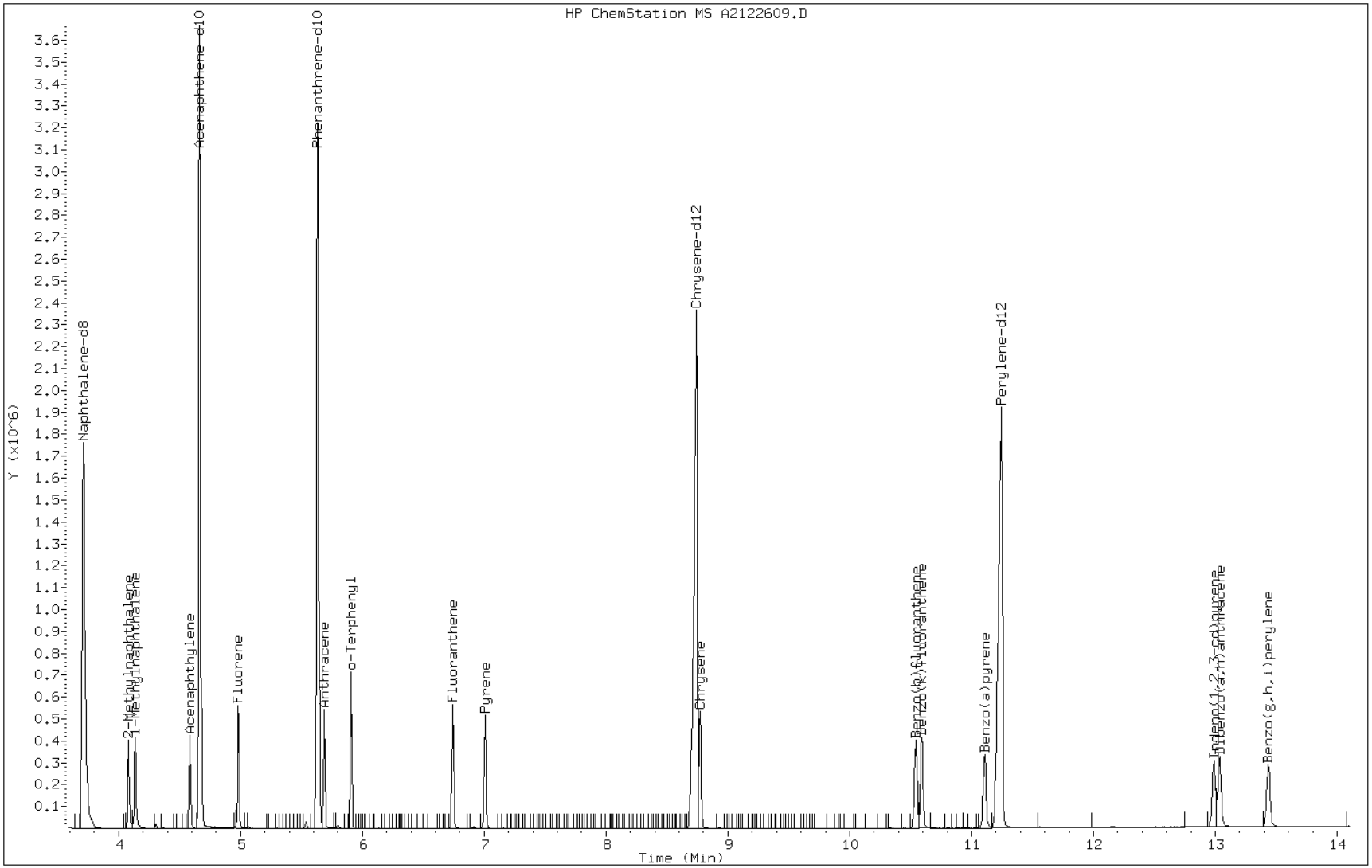
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.711	3.711	(1.000)	1480915	40.0000		
	2 Naphthalene	128	3.721	3.721	(1.003)	210289	5.00000	5.0	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	134127	5.00000	5.1	
	4 1-Methylnaphthalene	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

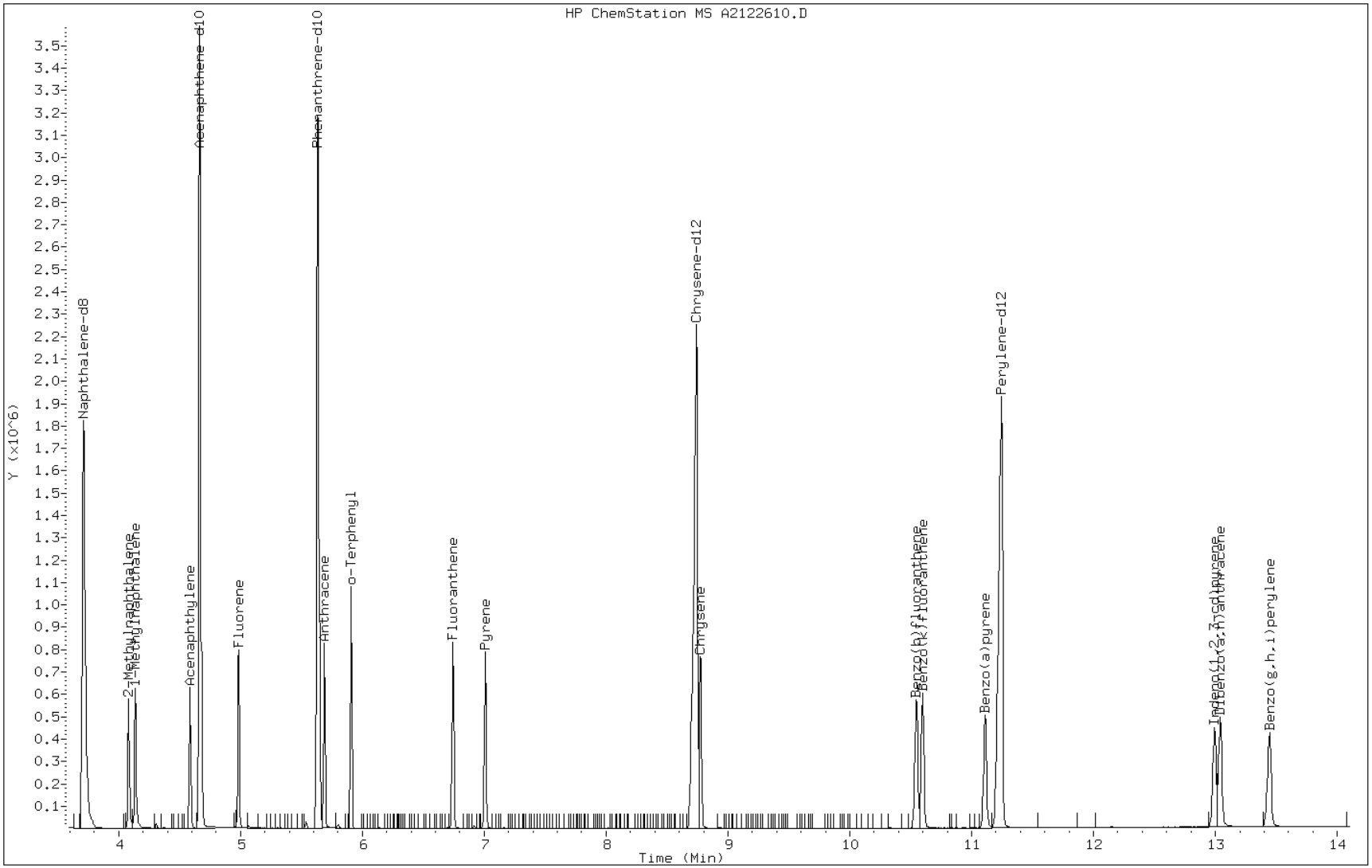
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	1471058	40.0000		
	2 Naphthalene	128	3.720	3.720	(1.003)	315807	7.50000	7.6	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	199823	7.50000	7.6	
	4 1-Methylnaphthalene	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

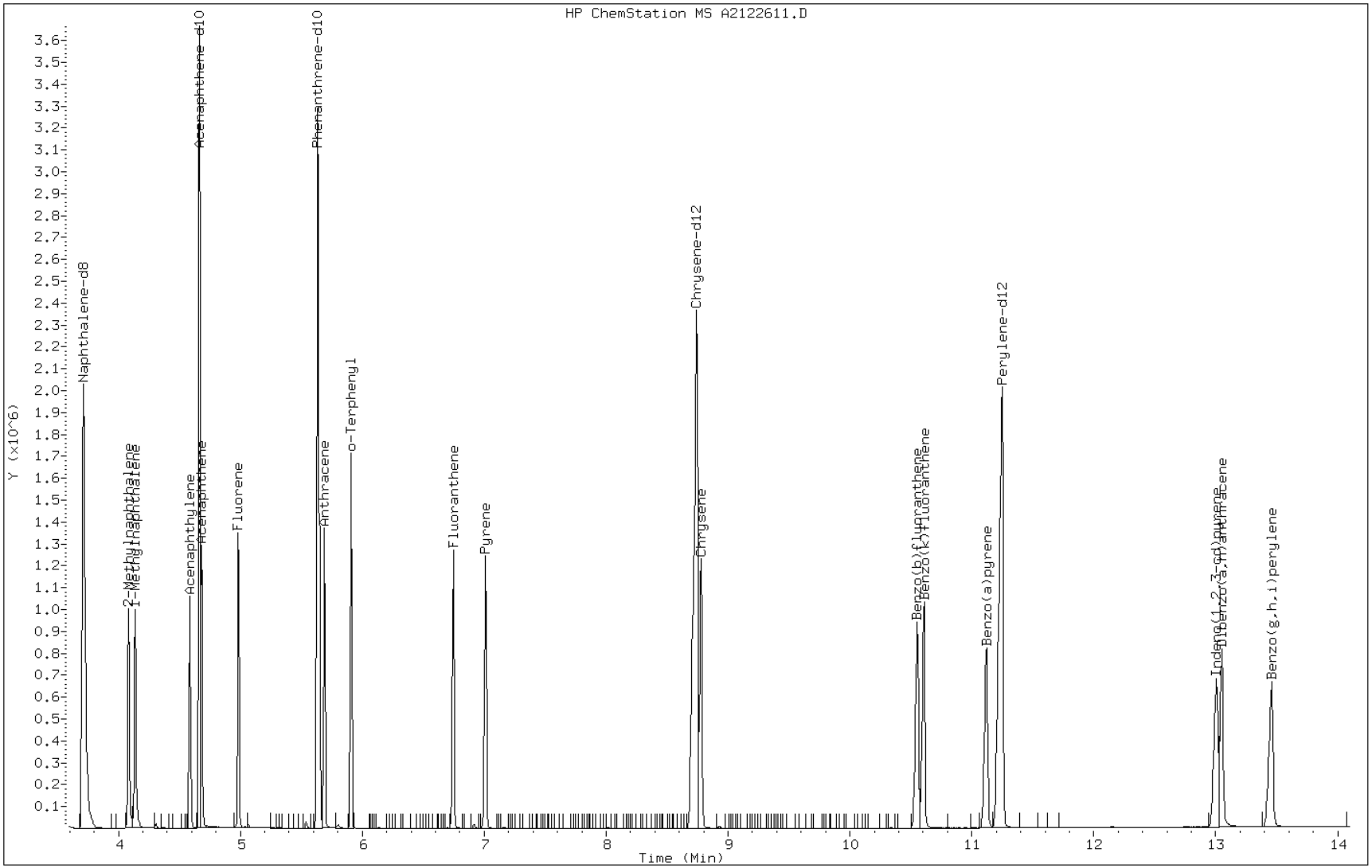
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.712	3.712	(1.000)	1497914	40.0000		
	2 Naphthalene	128	3.722	3.722	(1.003)	523642	12.5000	12	
	3 2-Methylnaphthalene	142	4.081	4.081	(1.099)	330213	12.5000	12	
	4 1-Methylnaphthalene	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

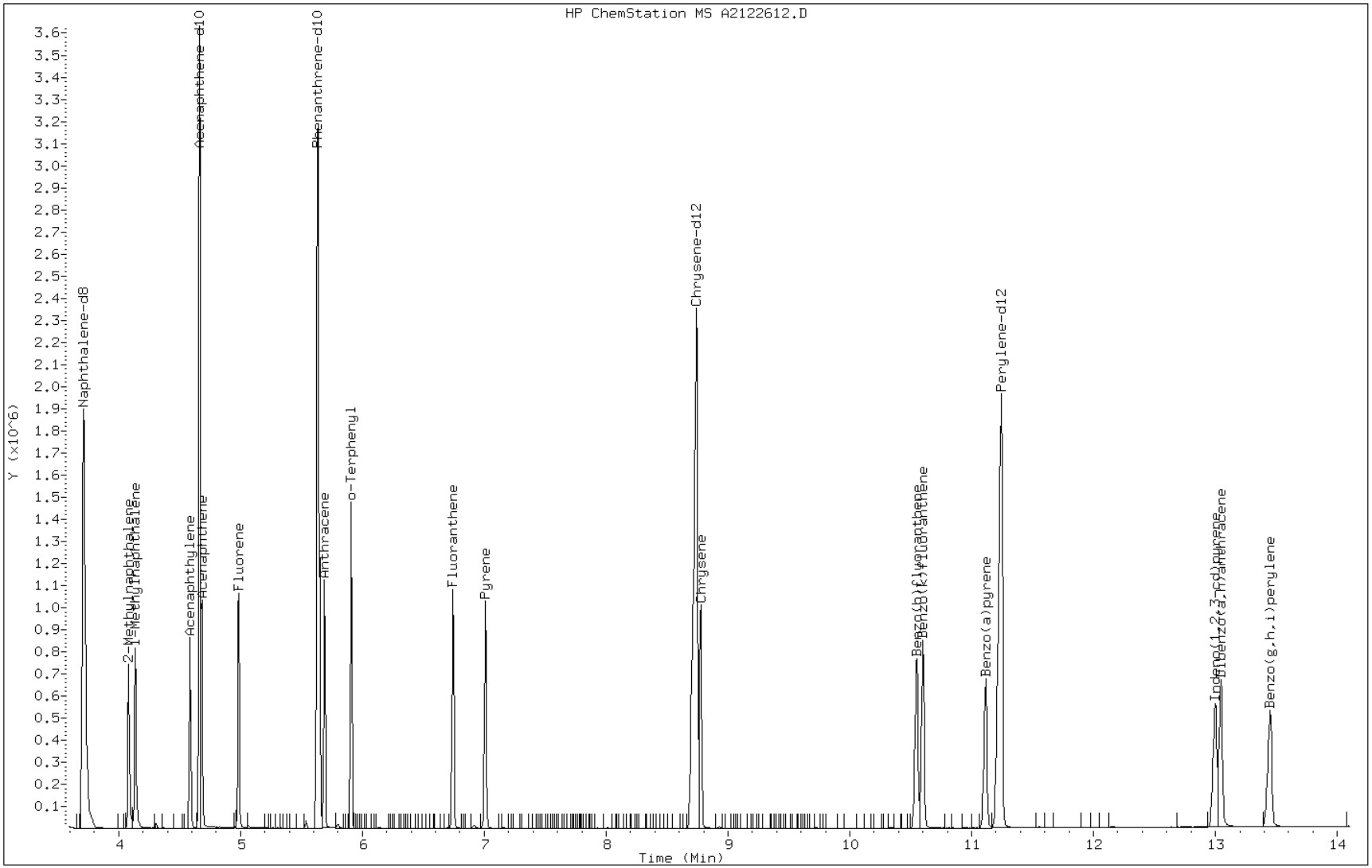
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.710	3.710	(1.000)	1503267	40.0000		
	2 Naphthalene	128	3.720	3.720	(1.003)	424763	10.0000	10	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	265766	10.0000	9.9	
	4 1-Methylnaphthalene	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

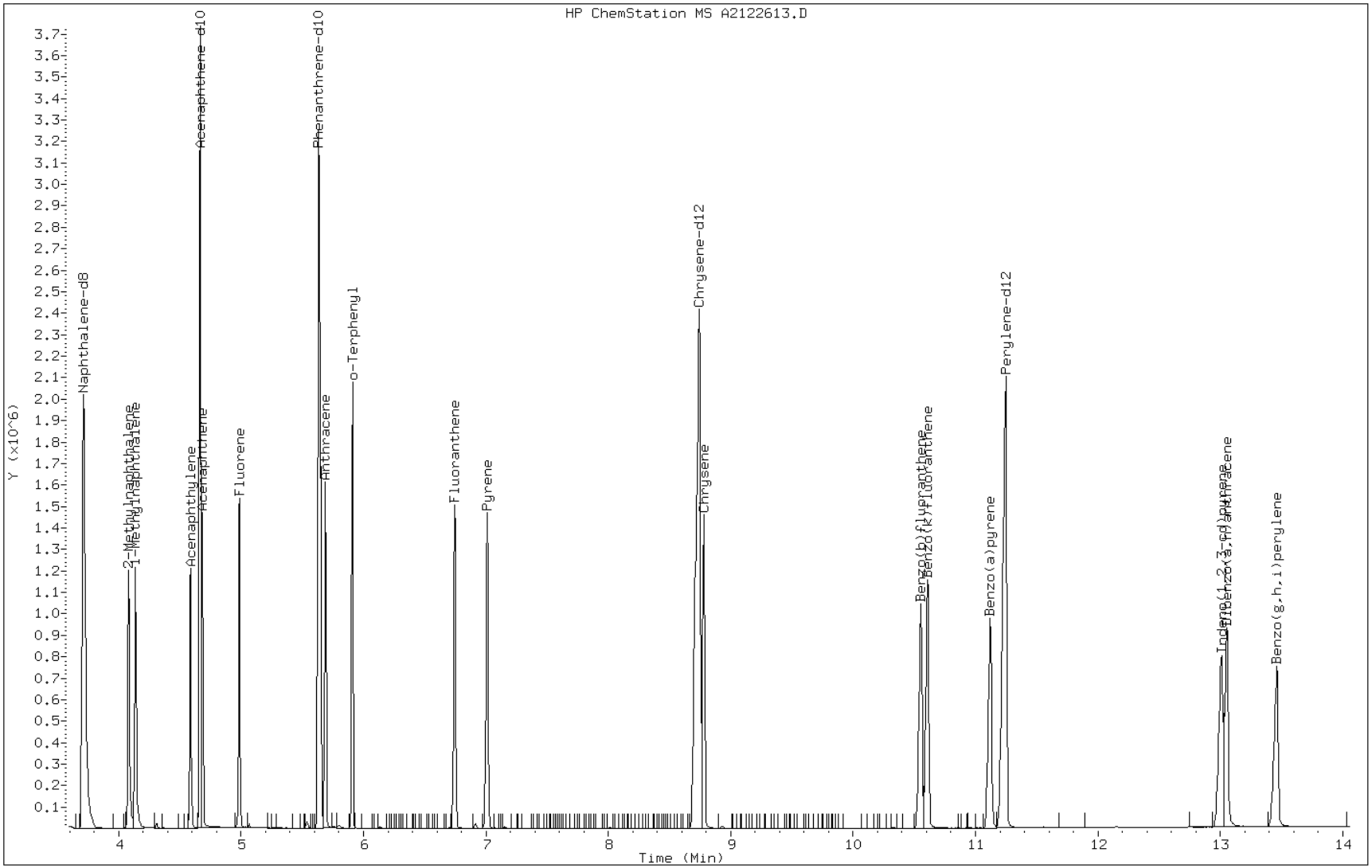
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.712	3.712	(1.000)	1506021	40.0000		
	2 Naphthalene	128	3.722	3.722	(1.003)	631115	15.0000	15	
	3 2-Methylnaphthalene	142	4.080	4.080	(1.099)	393403	15.0000	15	
	4 1-Methylnaphthalene	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

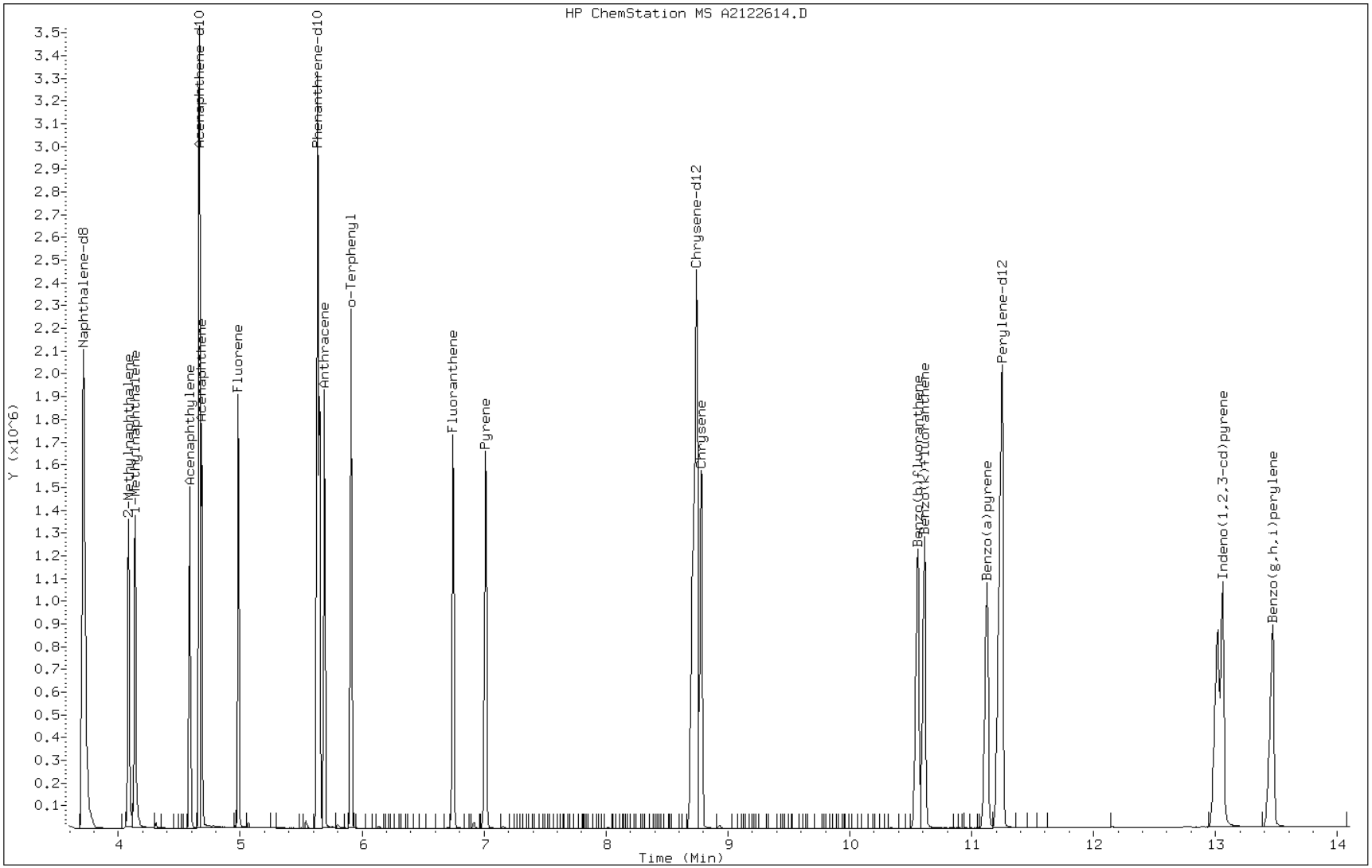
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.713	3.713	(1.000)	1471360	40.0000		
	2 Naphthalene	128	3.723	3.723	(1.003)	710607	17.5000	17	
	3 2-Methylnaphthalene	142	4.082	4.082	(1.099)	458960	17.5000	18	
	4 1-Methylnaphthalene	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

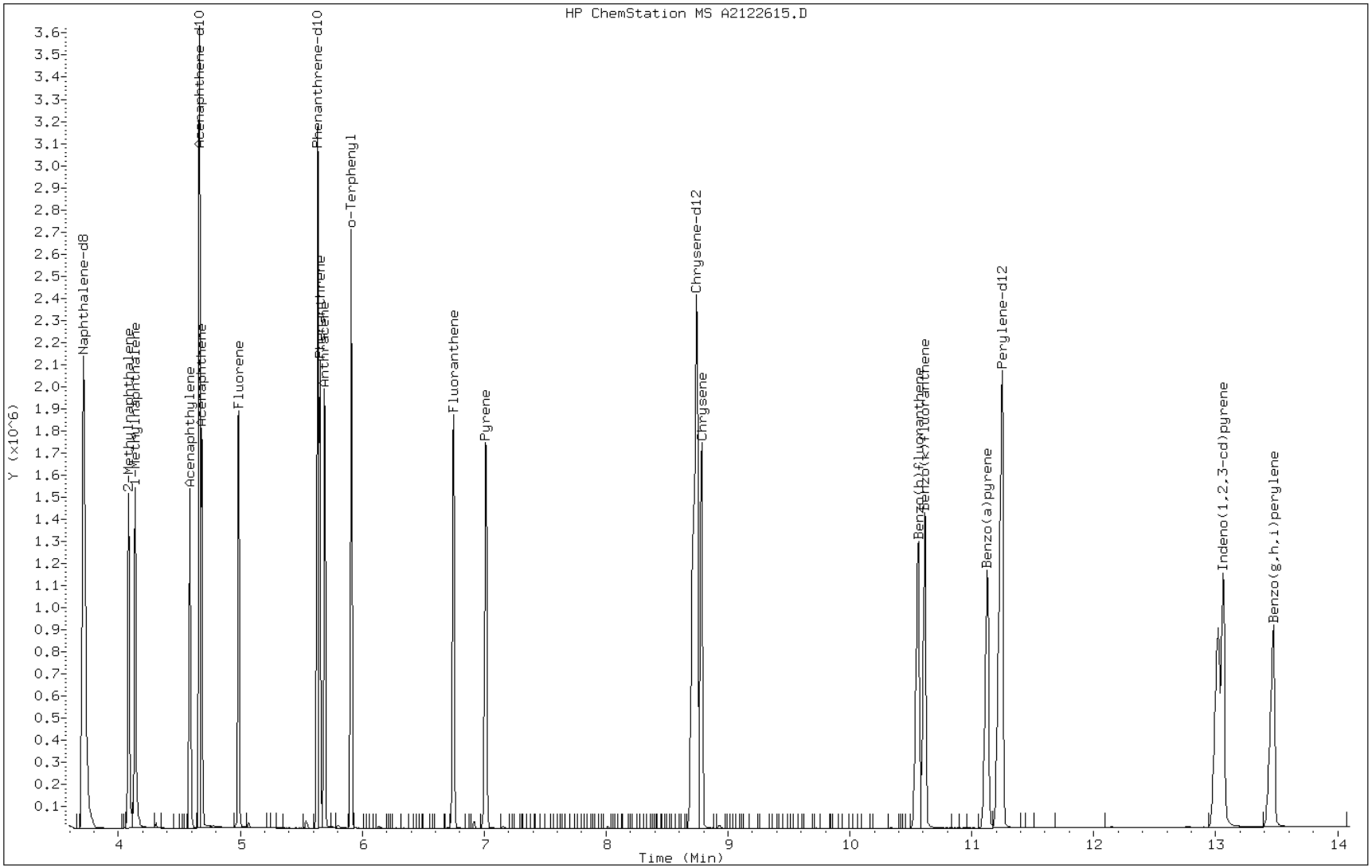
A - Target compound detected but, quantitated amount exceeded maximum amount.

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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	

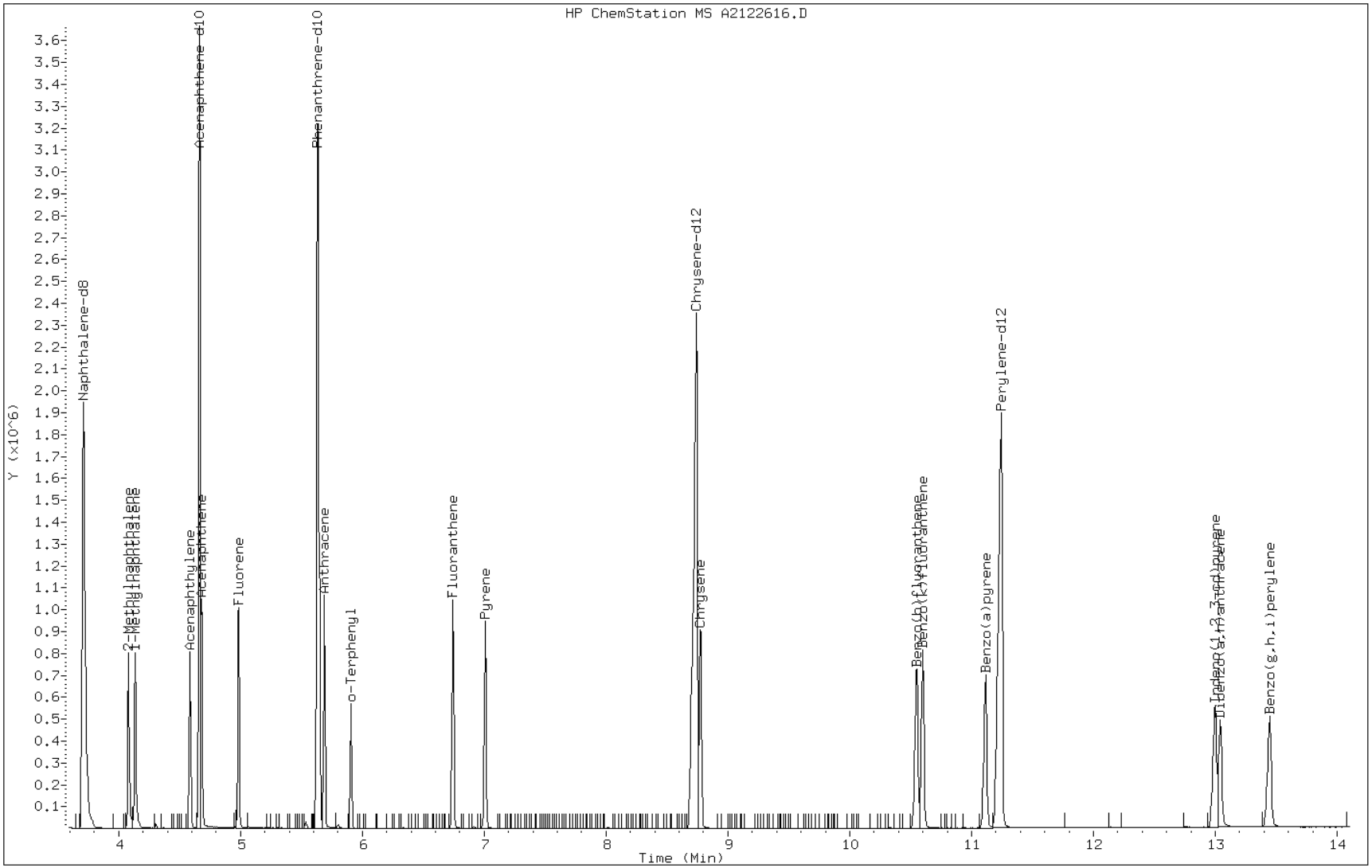
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)	REVIEW CODE
* 18 Perylene-d12	264	11.247	11.249	(1.000)	1602667	40.0000		
19 Benzo(b)fluoranthene	252	10.550	10.562	(0.938)	490727	9.92890	9.9	
20 Benzo(k)fluoranthene	252	10.602	10.619	(0.943)	502299	9.95094	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.: 680-85785-3

SDG No.: 68085785-3

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

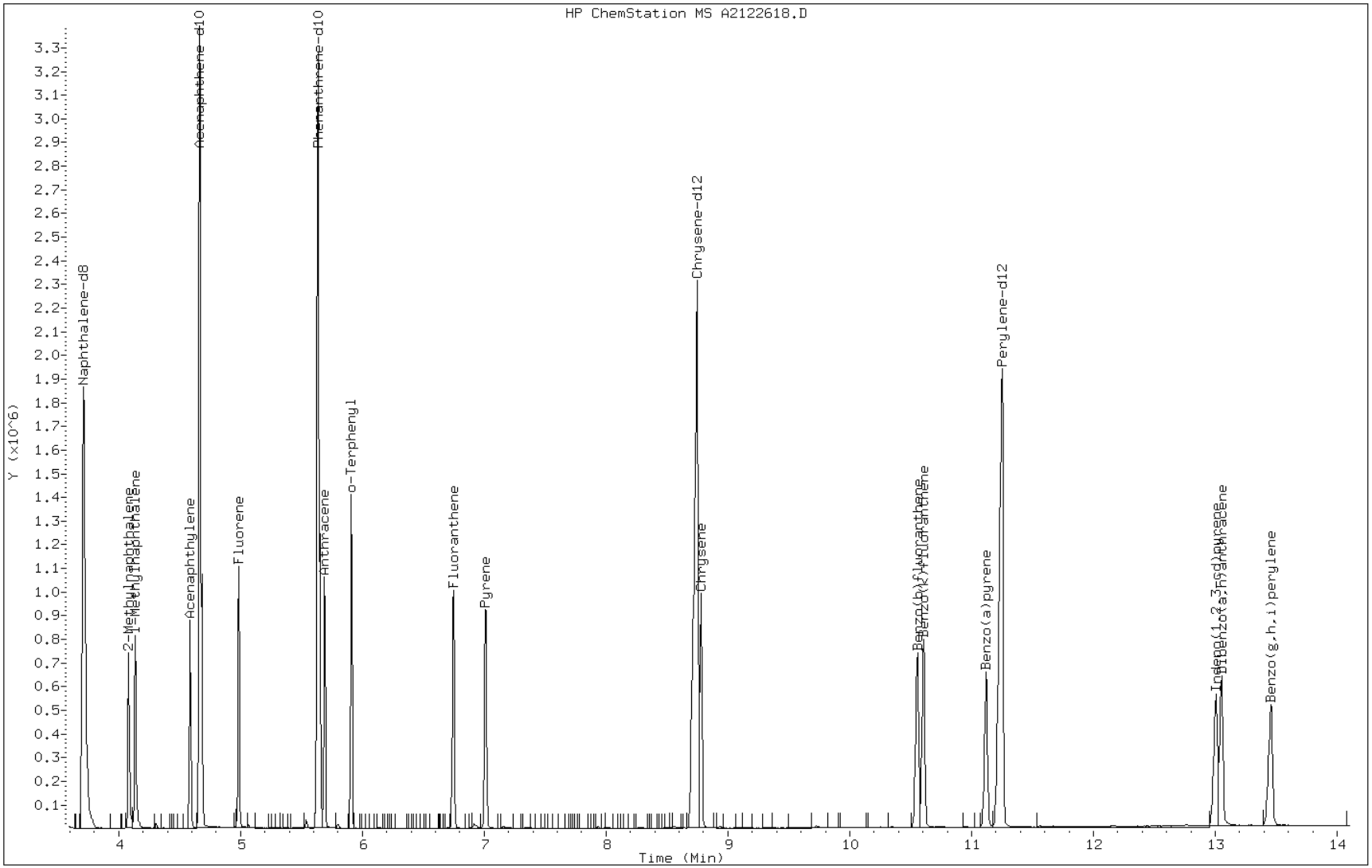
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
*	1 Naphthalene-d8	136	3.711	3.711	(1.000)	1468146	40.0000		
	2 Naphthalene	128	3.721	3.721	(1.003)	411226	10.0000	9.9	
	3 2-Methylnaphthalene	142	4.079	4.079	(1.099)	261350	10.0000	10	
	4 1-Methylnaphthalene	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.: 680-85785-3

SDG No.: 68085785-3

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

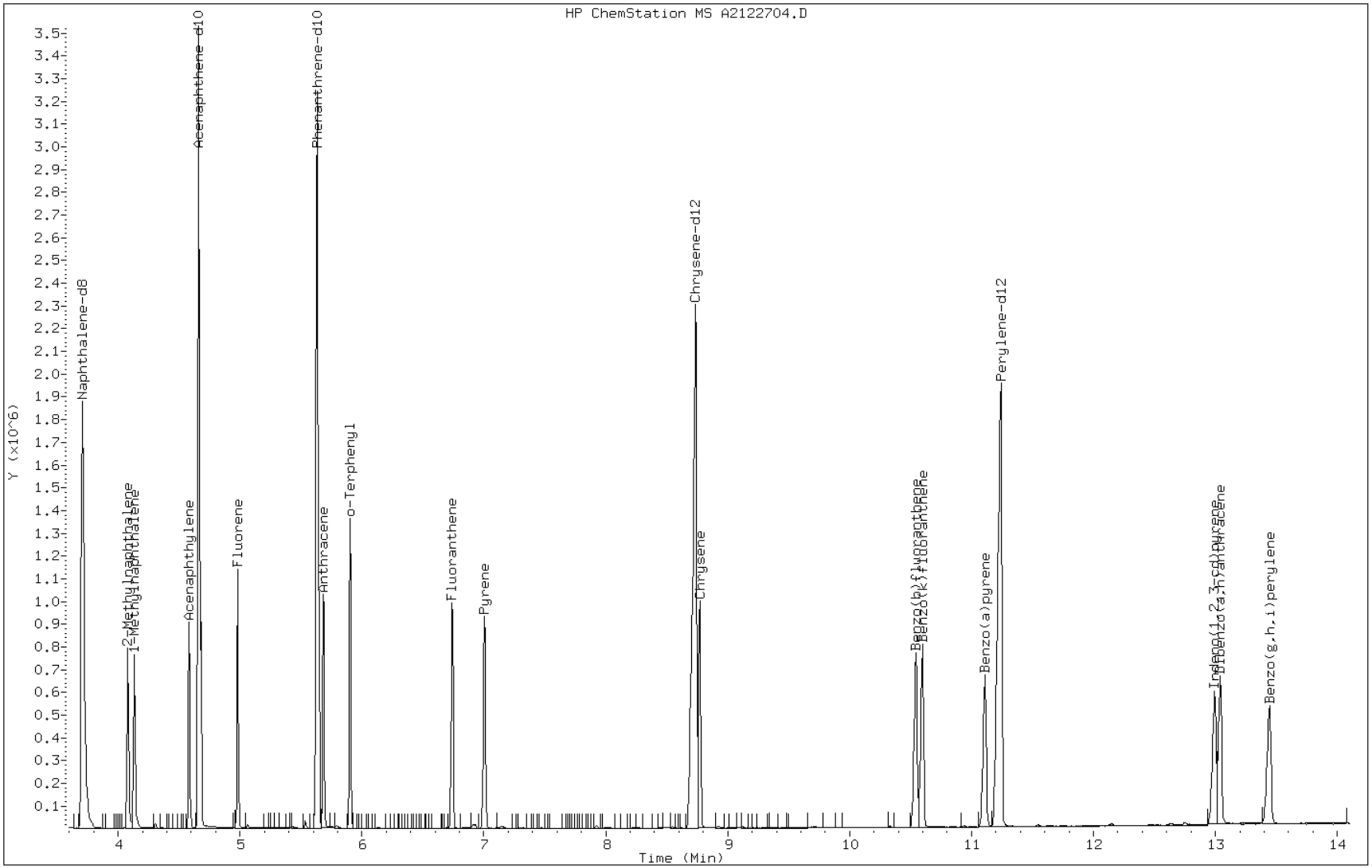
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
* 1 Naphthalene-d8	136	3.705	3.705	(1.000)	1468210	40.0000		
2 Naphthalene	128	3.720	3.720	(1.004)	408817	10.0000	9.9	
3 2-Methylnaphthalene	142	4.079	4.079	(1.101)	261527	10.0000	10	
4 1-Methylnaphthalene	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



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

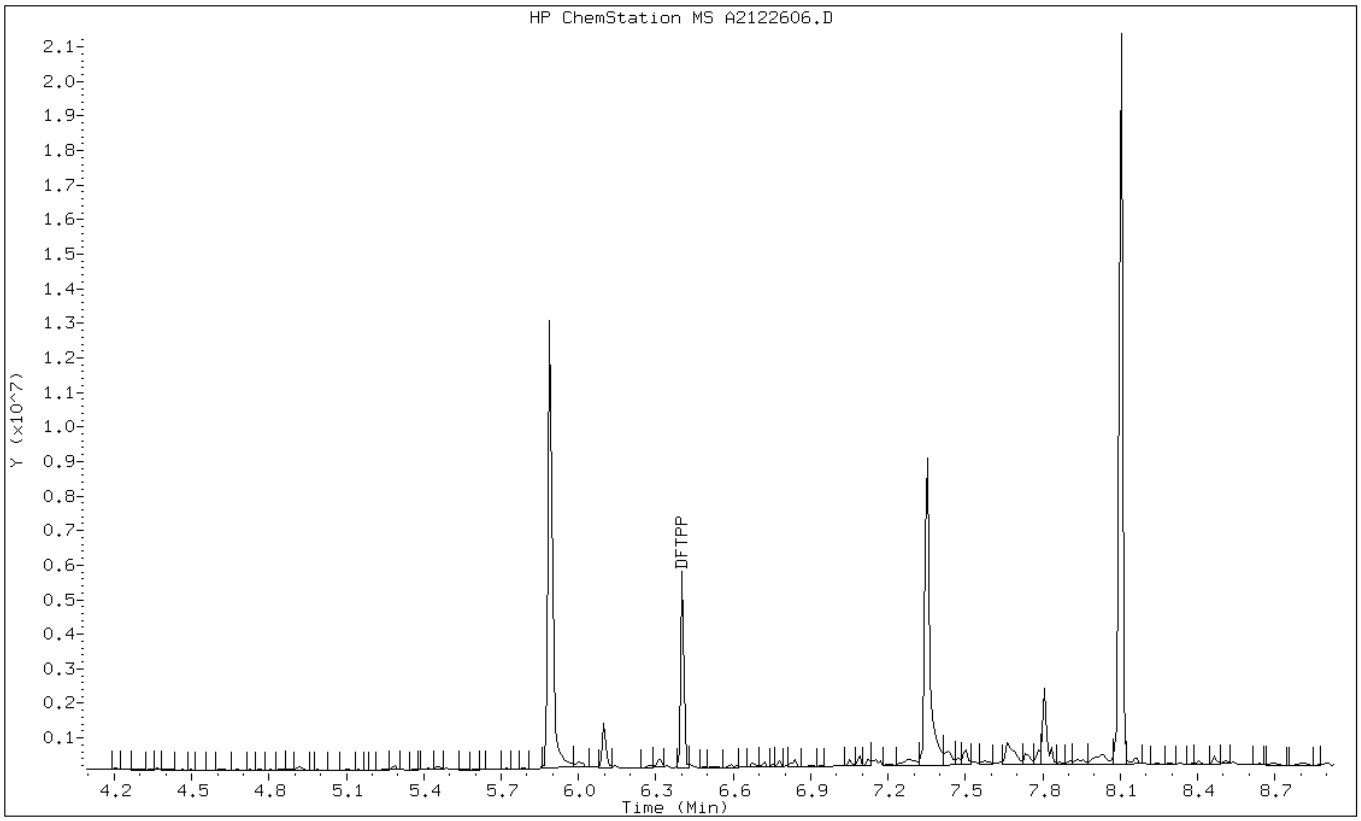
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.400	6.403	-0.003	442	250137			0.00- 100.00	100.00
6.400	6.403	-0.003	51	132733			10.00- 80.00	53.06
6.400	6.403	-0.003	68	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	69	199469			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



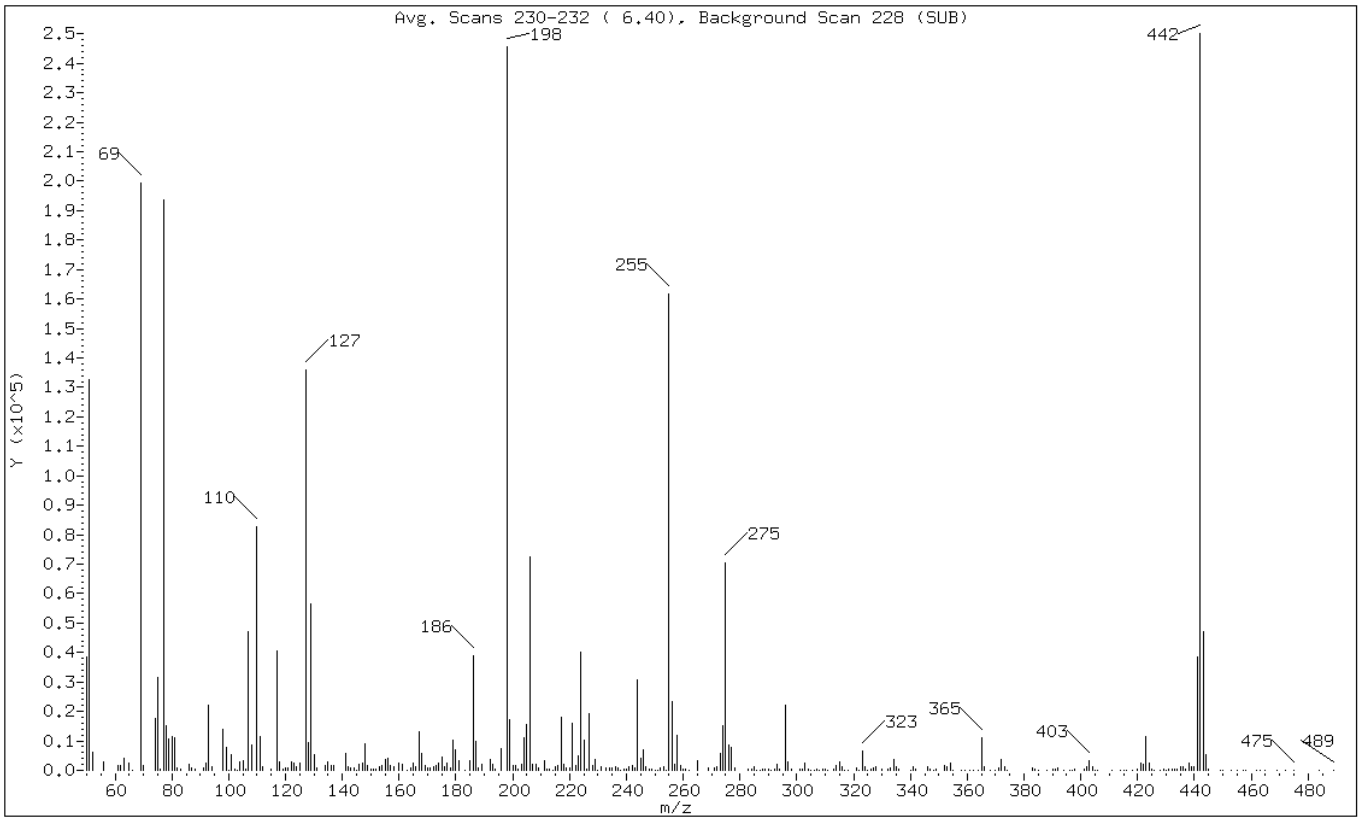
Data File: A2122606.D

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

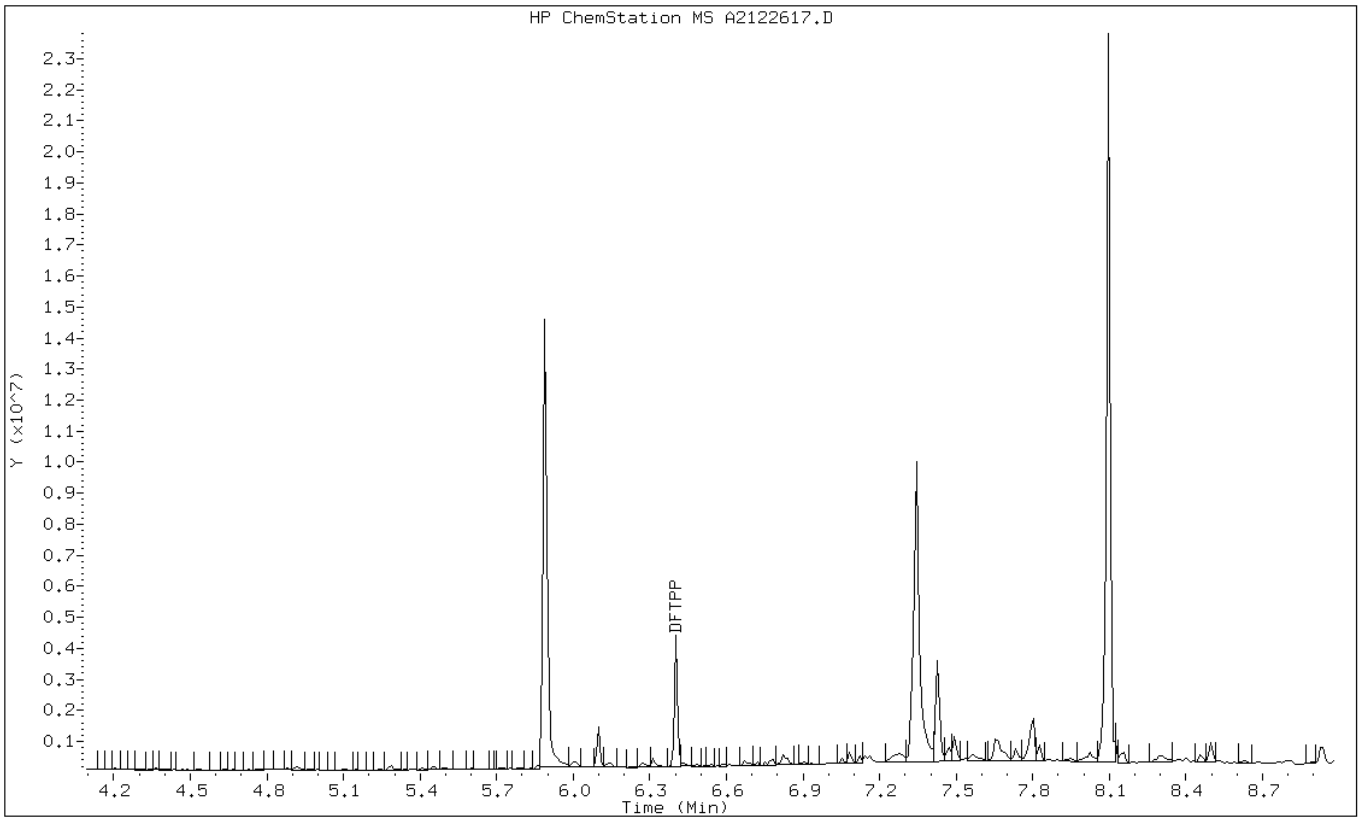
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.400	6.403	-0.003	442	165147			0.00- 100.00	91.96
6.400	6.403	-0.003	51	86545			10.00- 80.00	52.40
6.400	6.403	-0.003	68	0	0.0	0.0	0.00- 2.00	0.00
6.400	6.403	-0.003	69	124704			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



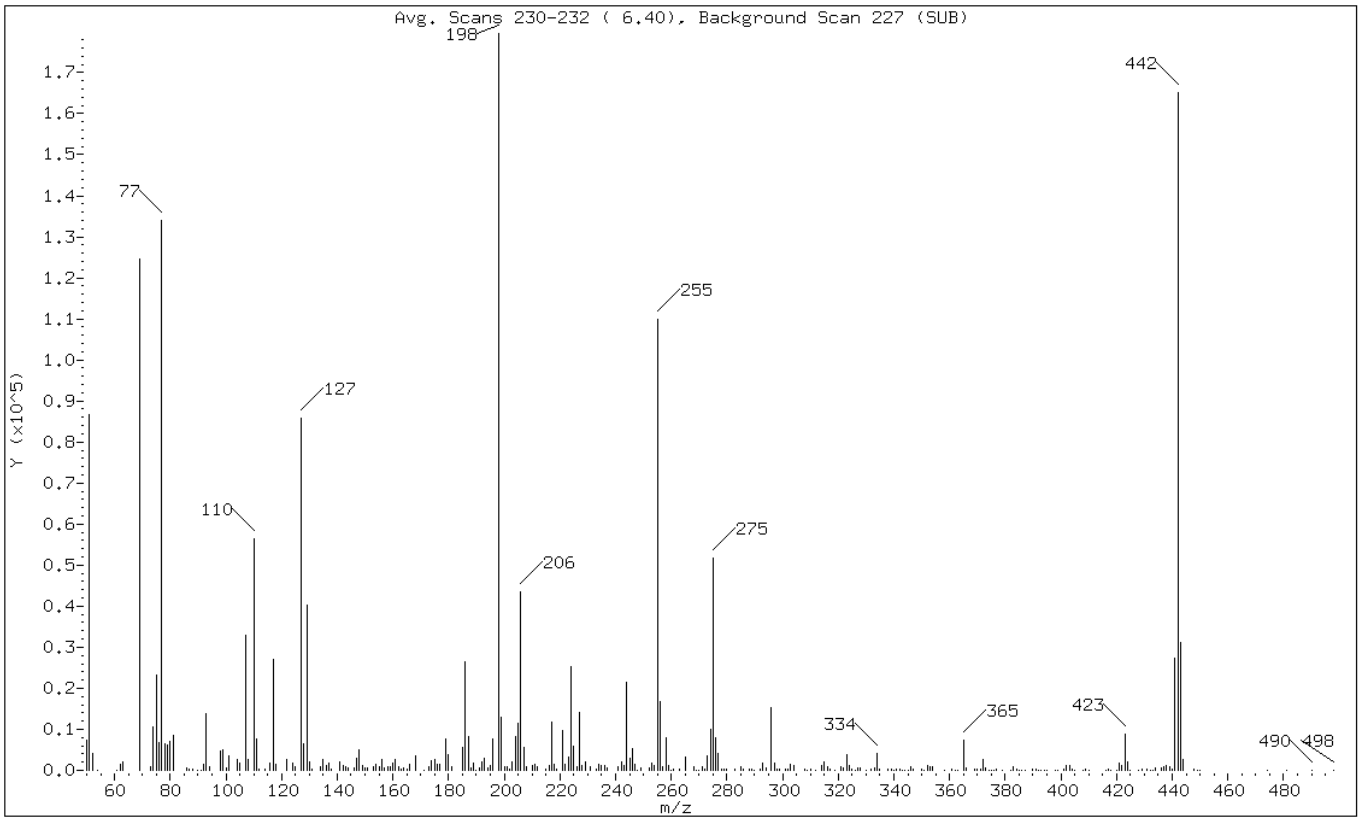
Data File: A2122617.D

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

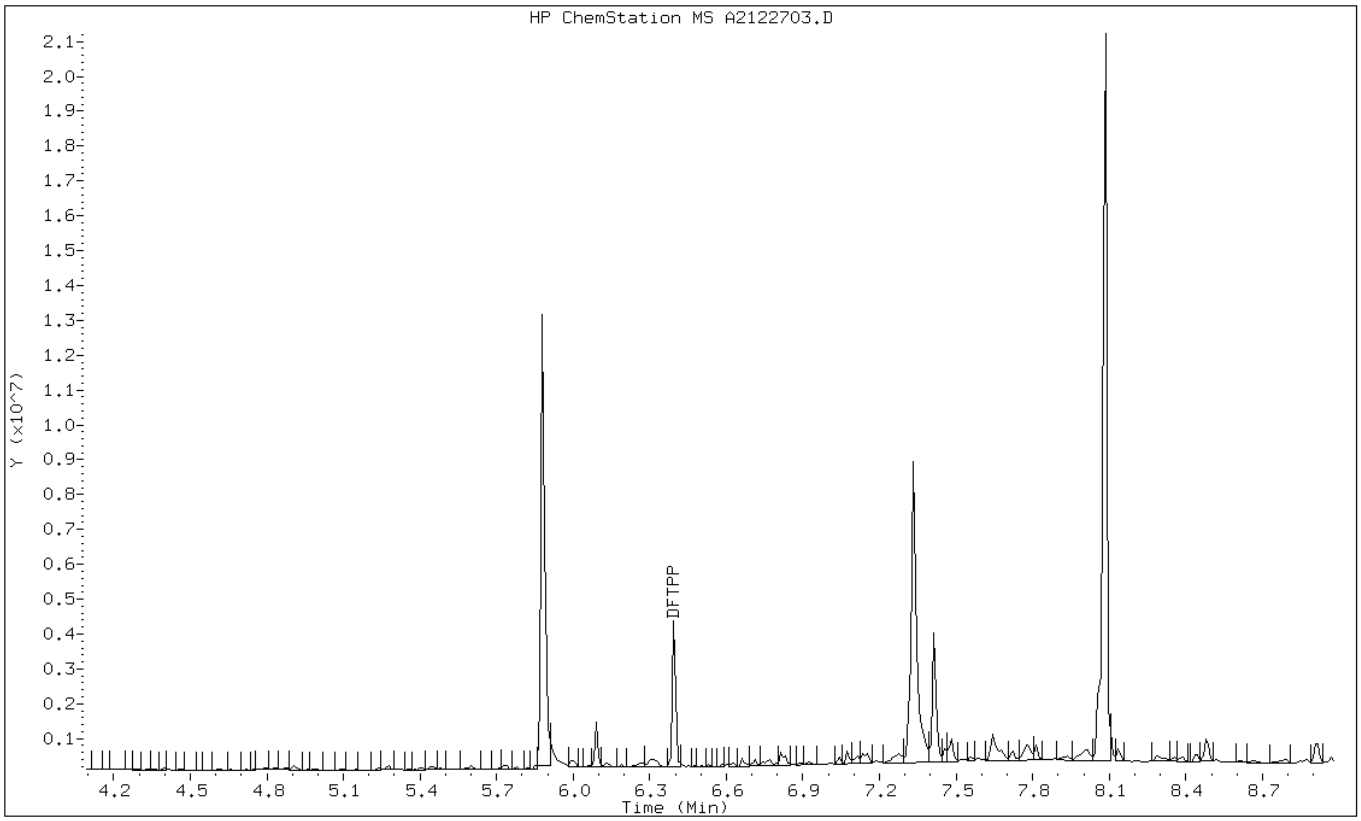
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 DFTPP						CAS #: 5074-71-5		
6.391	6.403	-0.012	442	193310			0.00- 100.00	100.00
6.391	6.403	-0.012	51	104476			10.00- 80.00	54.05
6.391	6.403	-0.012	68	0	0.0	0.0	0.00- 2.00	0.00
6.391	6.403	-0.012	69	142808			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



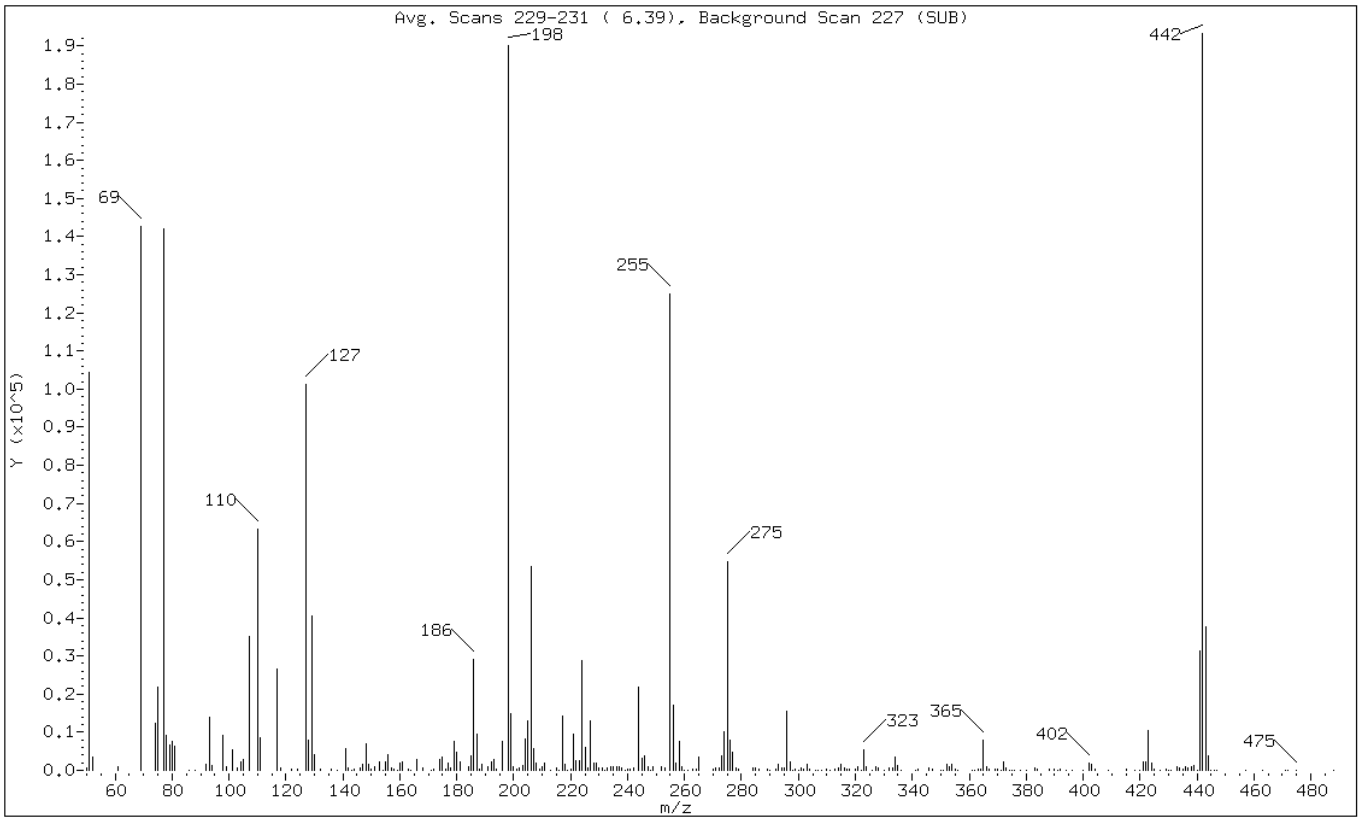
Data File: A2122703.D

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		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee
Job No.: 680-85785-3
SDG No.: 68085785-3
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

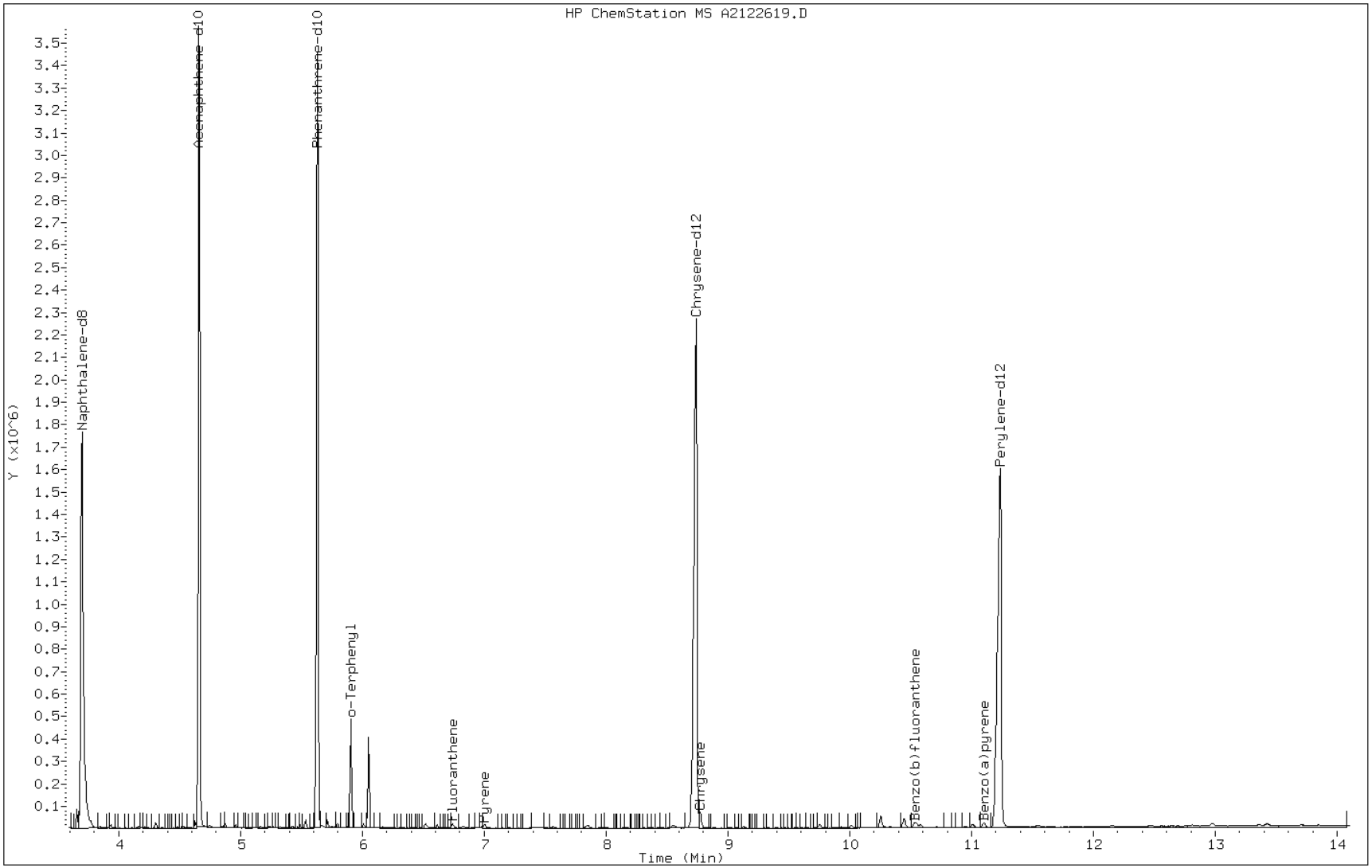
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

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



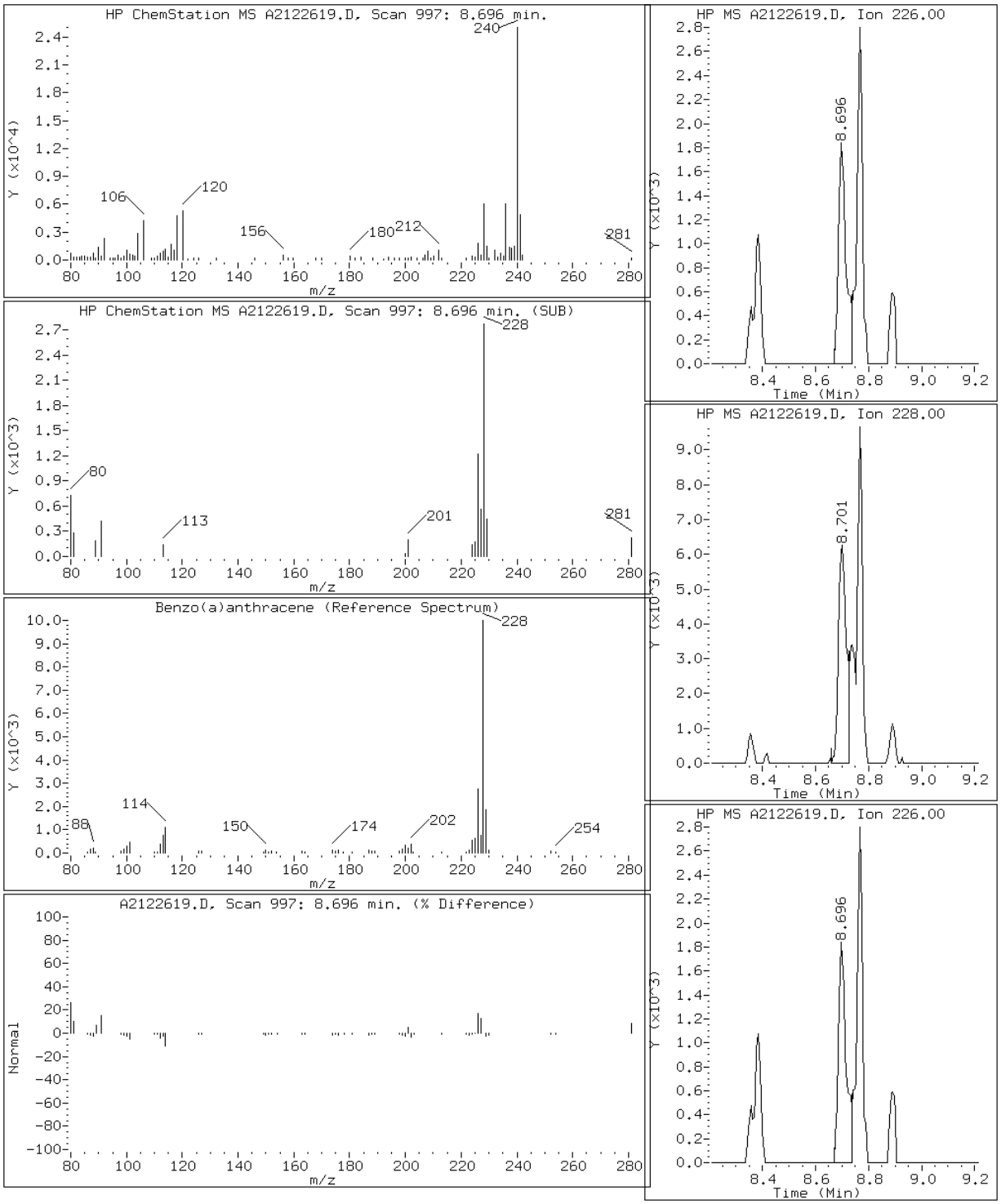
Data File: A2122619.D

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



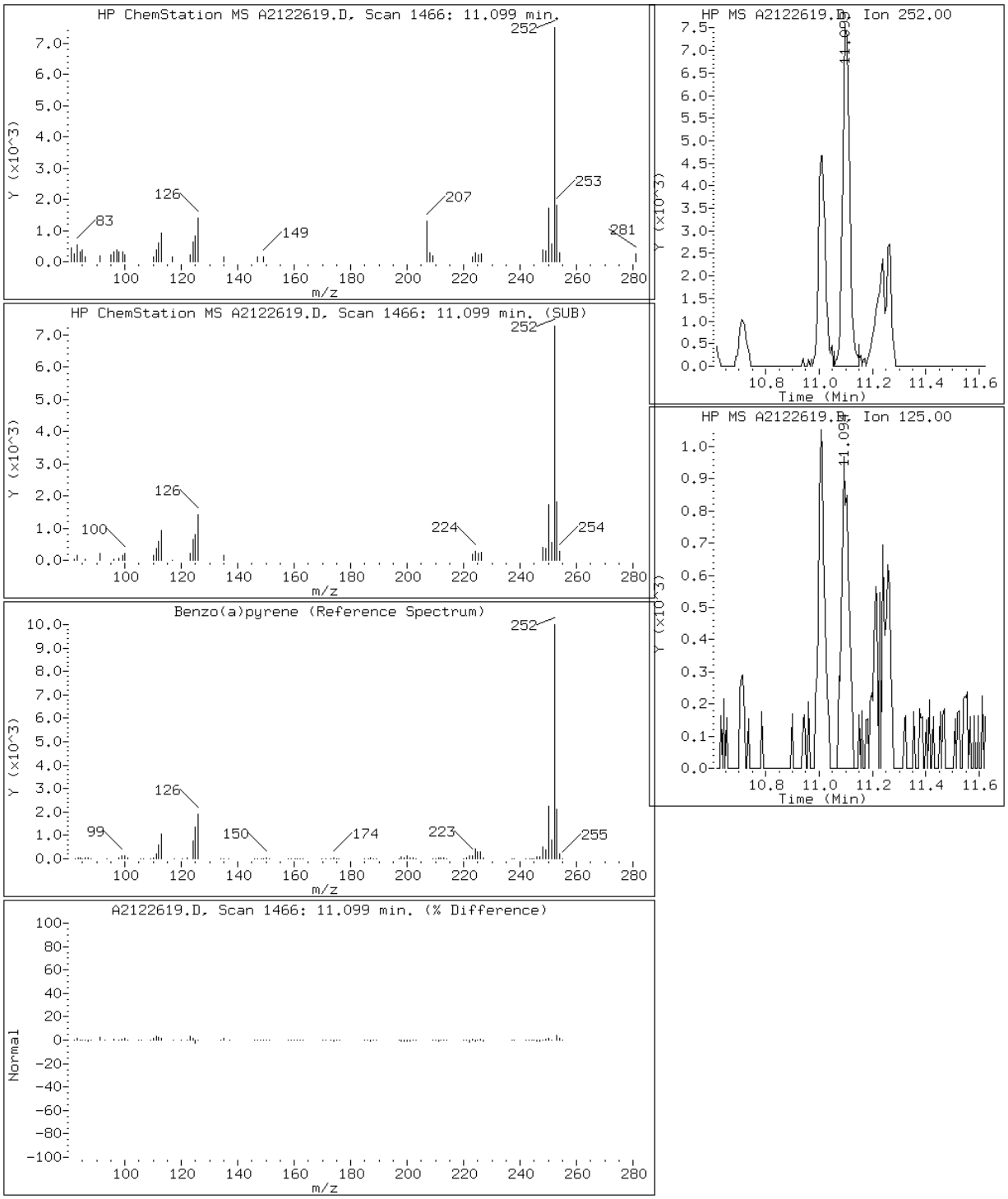
Data File: A2122619.D

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



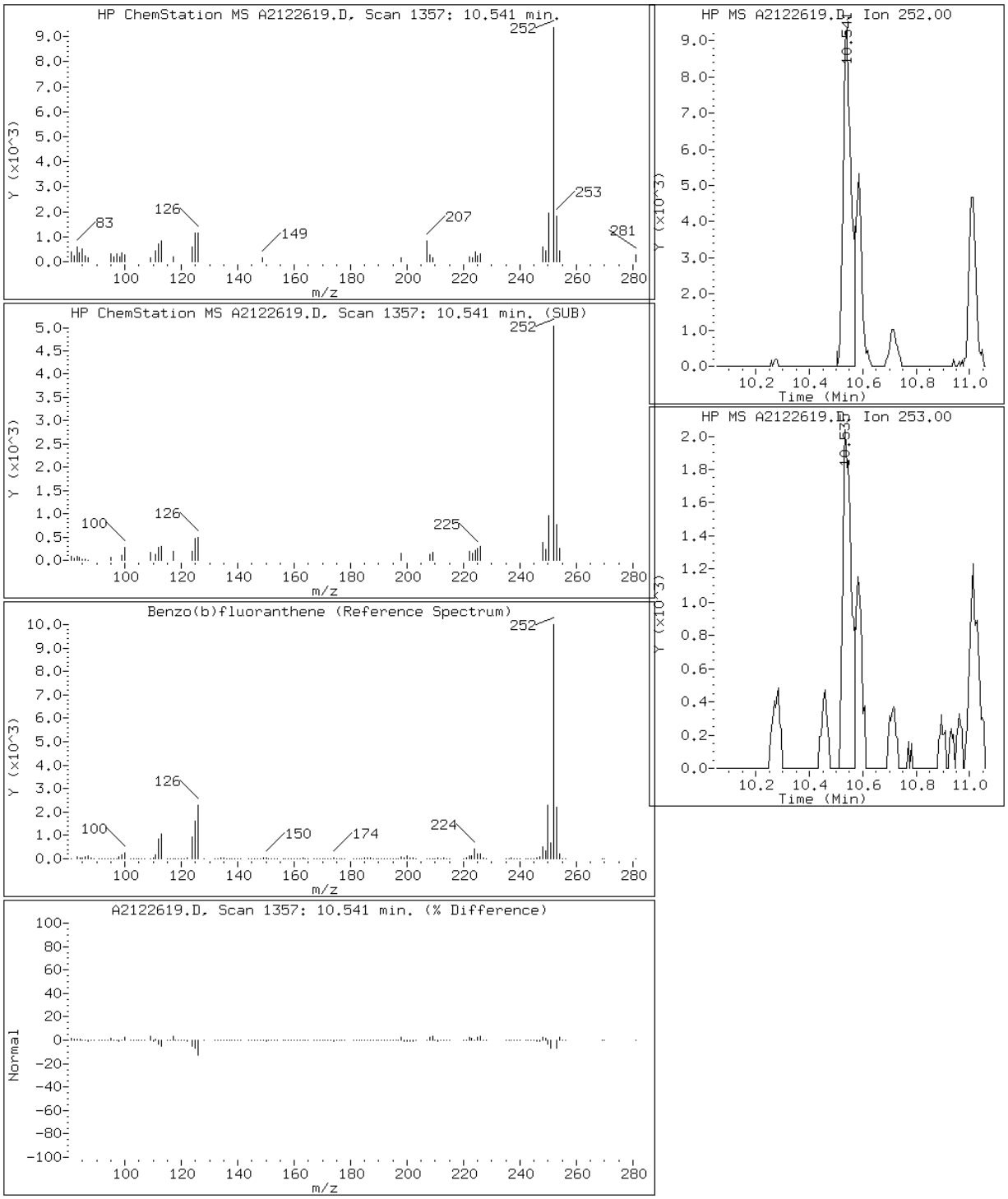
Data File: A2122619.D

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



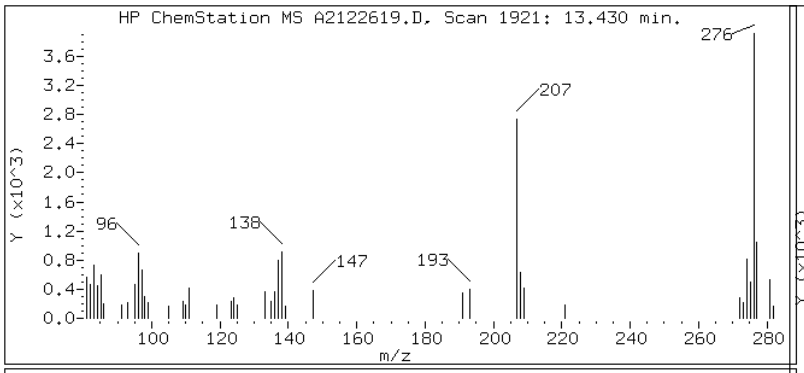
Data File: A2122619.D

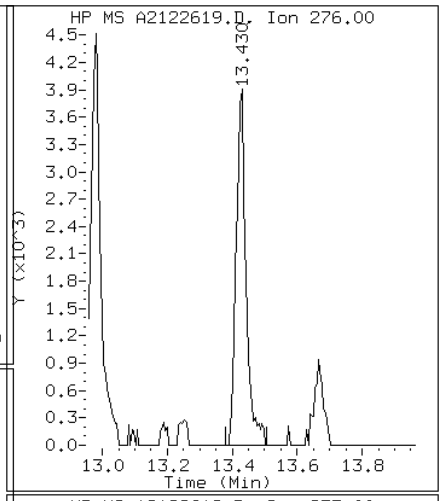
Date: 26-DEC-2012 18:31

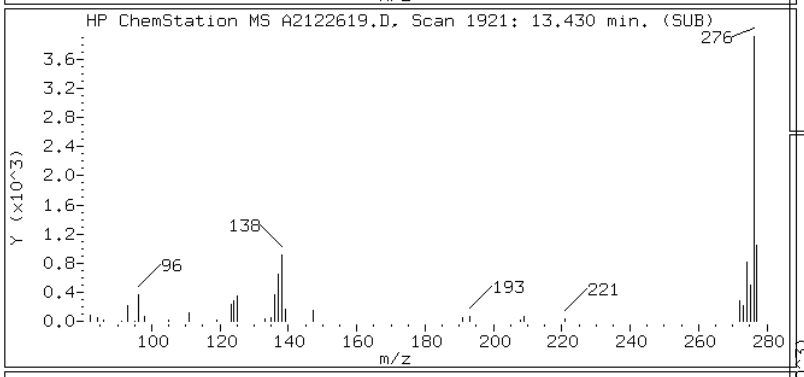
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

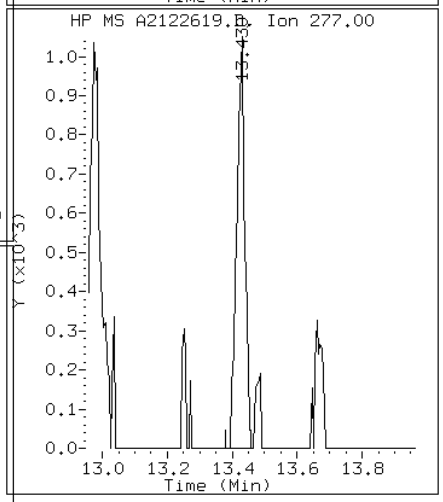
Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

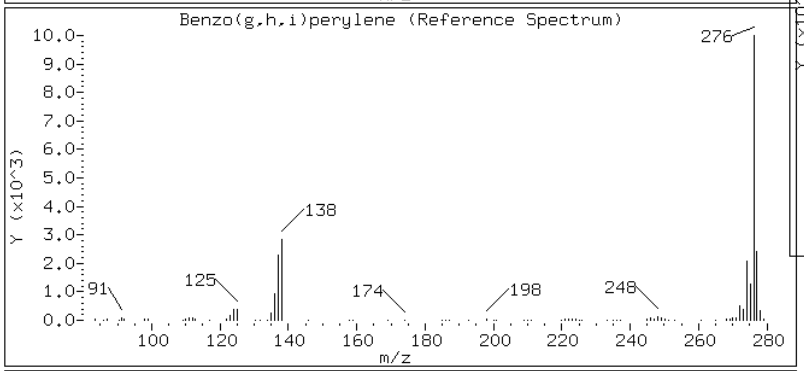
24 Benzo(g,h,i)perylene

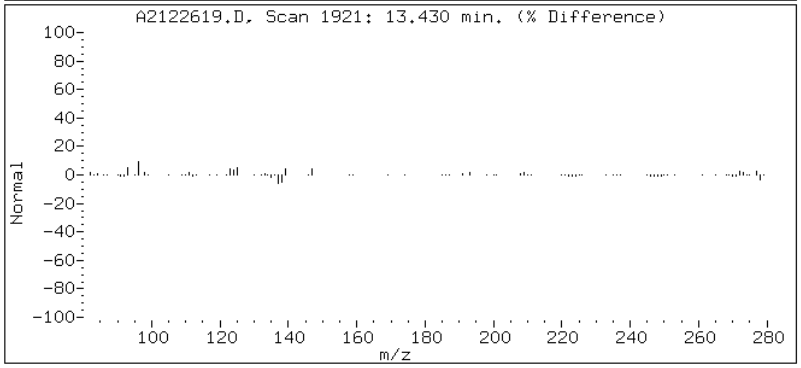












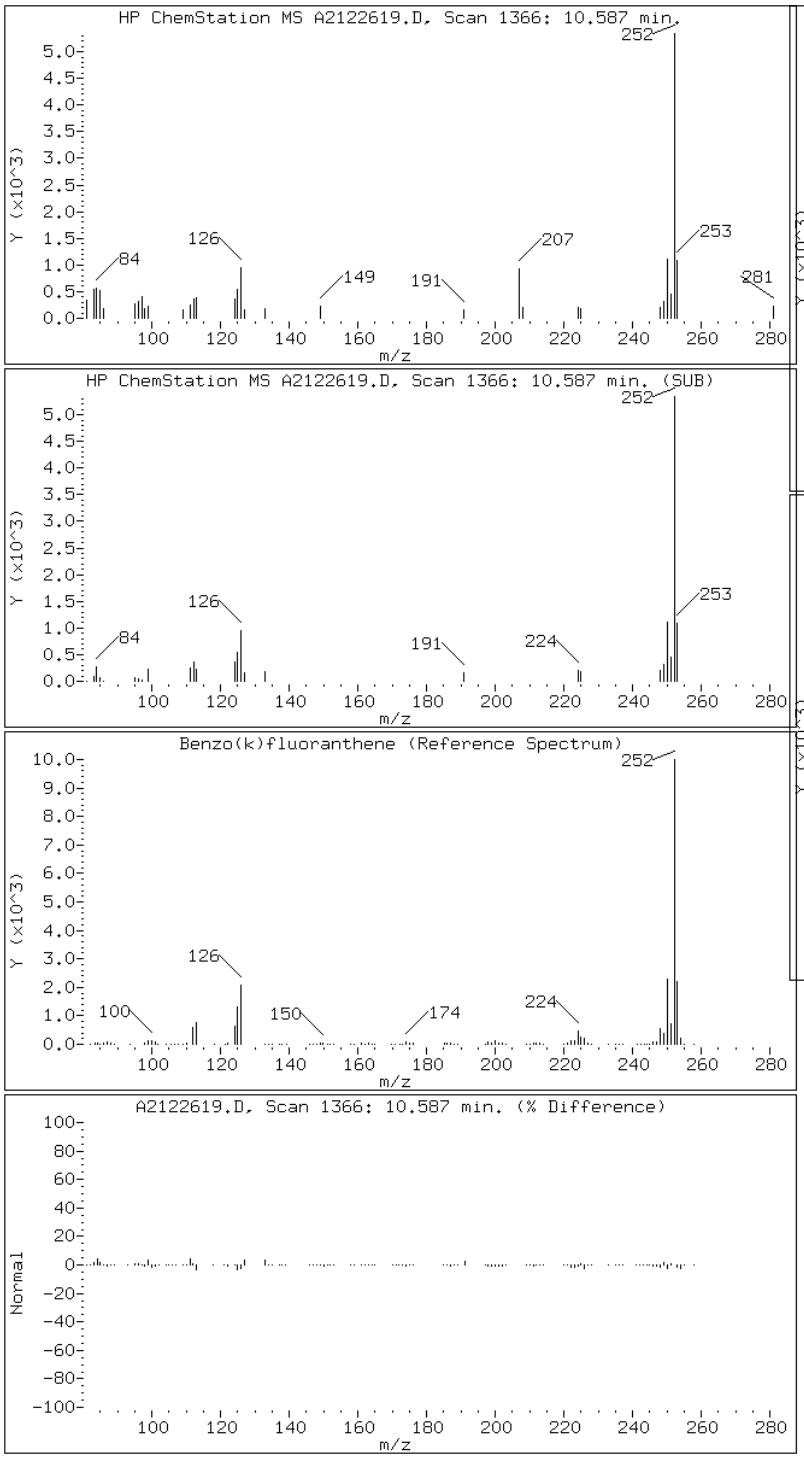
Data File: A2122619.D

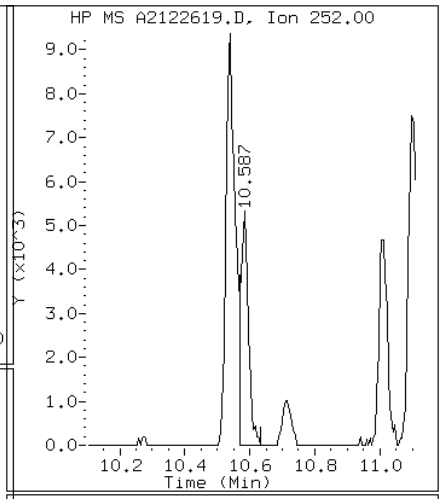
Date: 26-DEC-2012 18:31

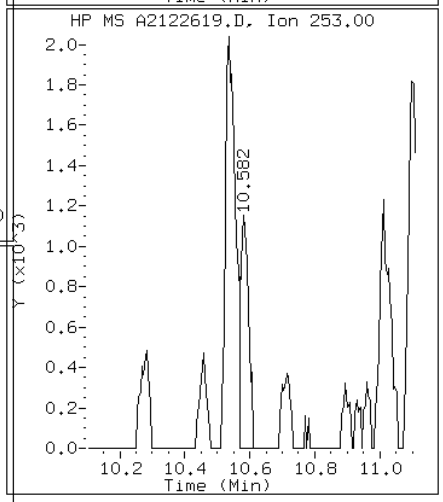
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

20 Benzo(k)fluoranthene







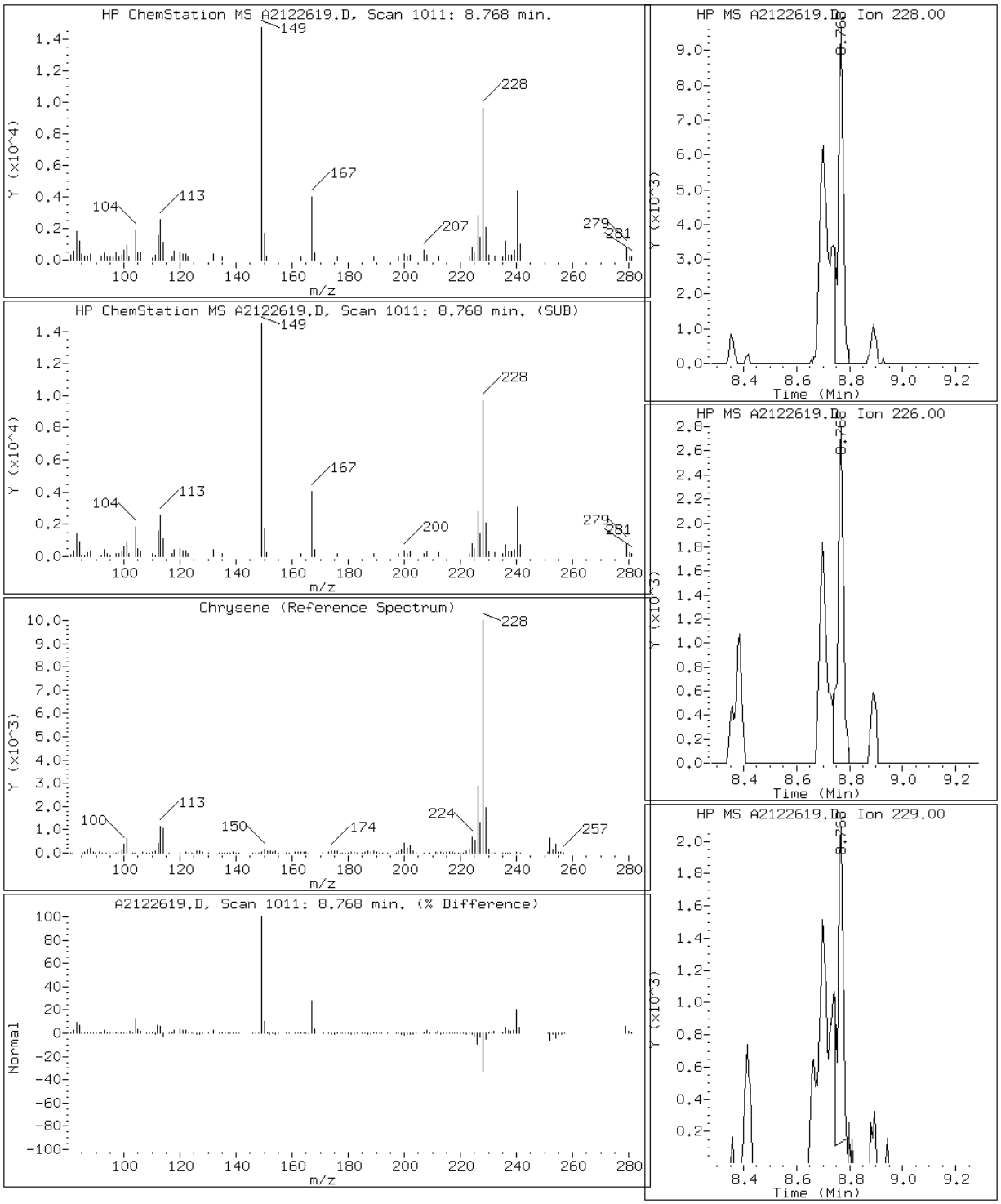
Data File: A2122619.D

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



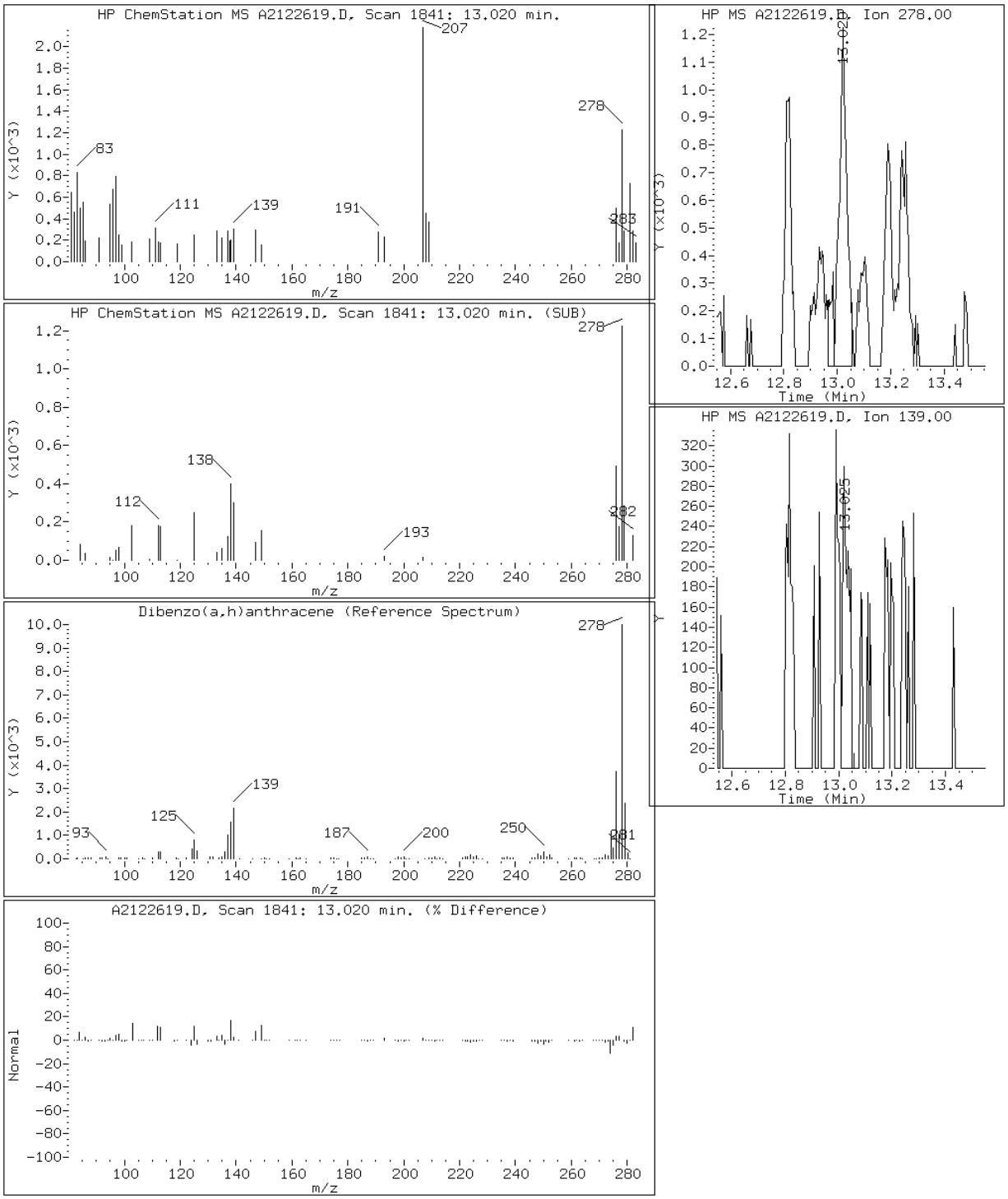
Data File: A2122619.D

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



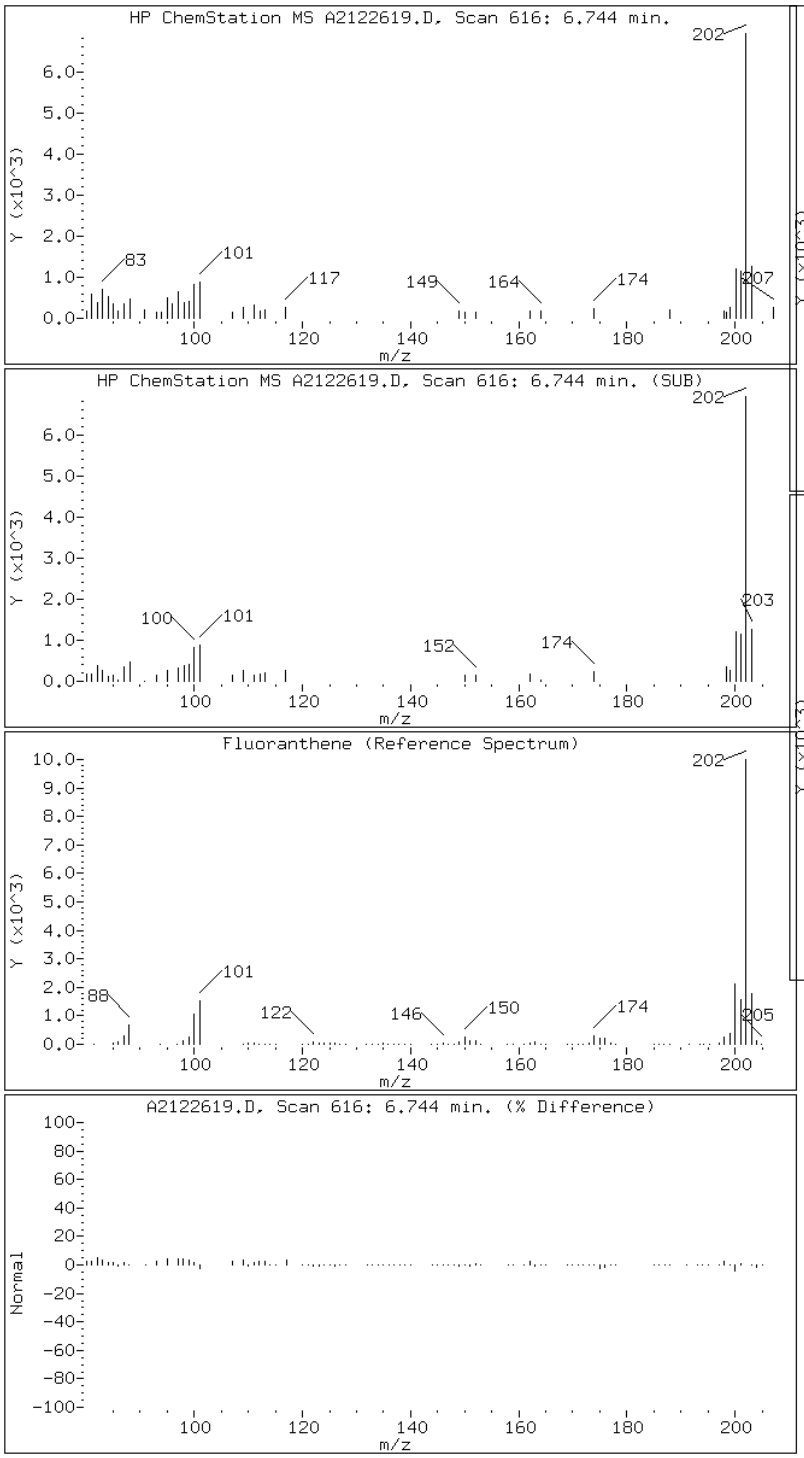
Data File: A2122619.D

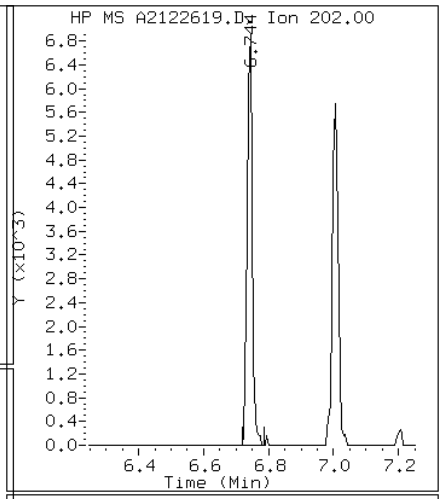
Date: 26-DEC-2012 18:31

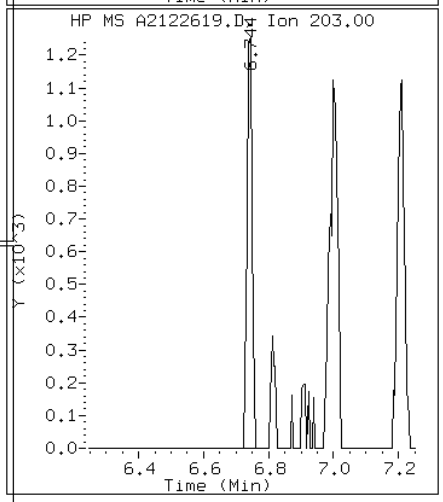
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

13 Fluoranthene







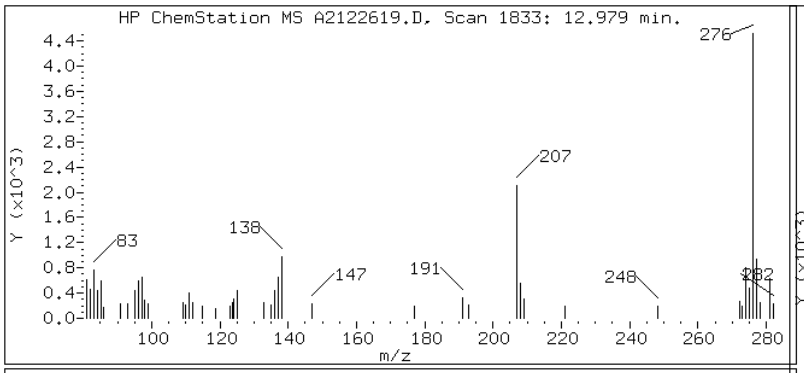
Data File: A2122619.D

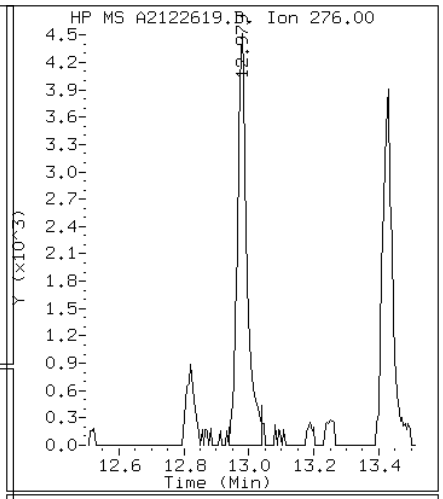
Date: 26-DEC-2012 18:31

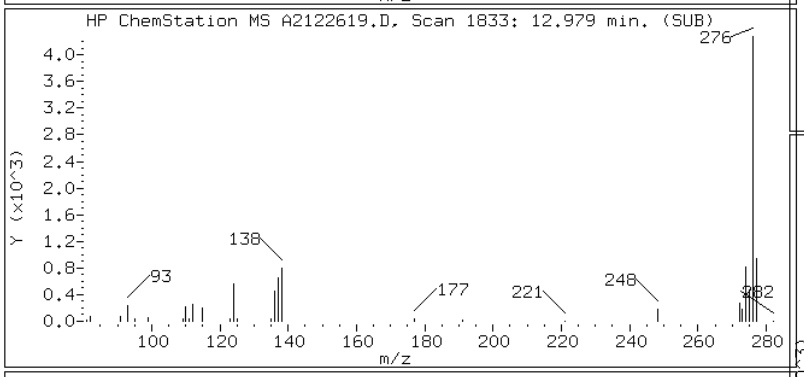
Client ID: MB 640-98123/1A Instrument: TSMA5973.i

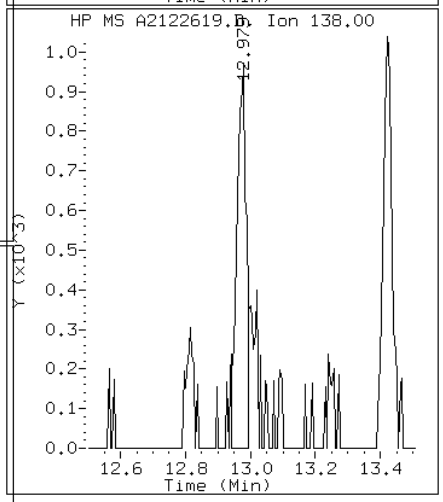
Sample Info: MB 640-98123/1A~98123~1~8270D/625 Operator: VW

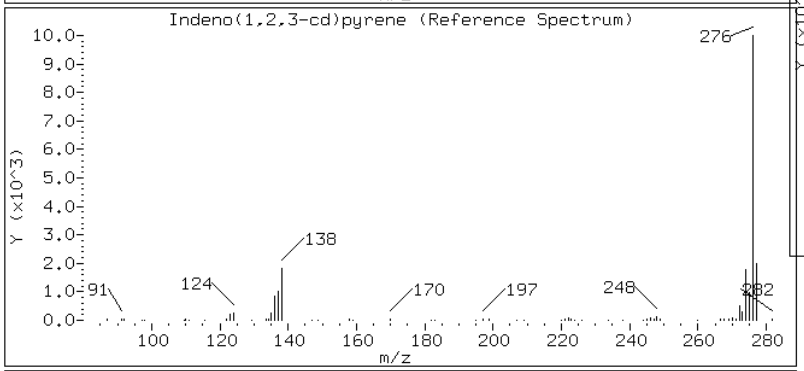
22 Indeno(1,2,3-cd)pyrene

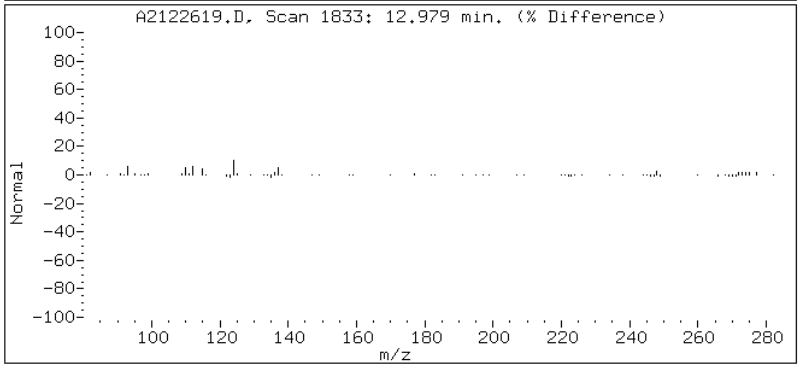












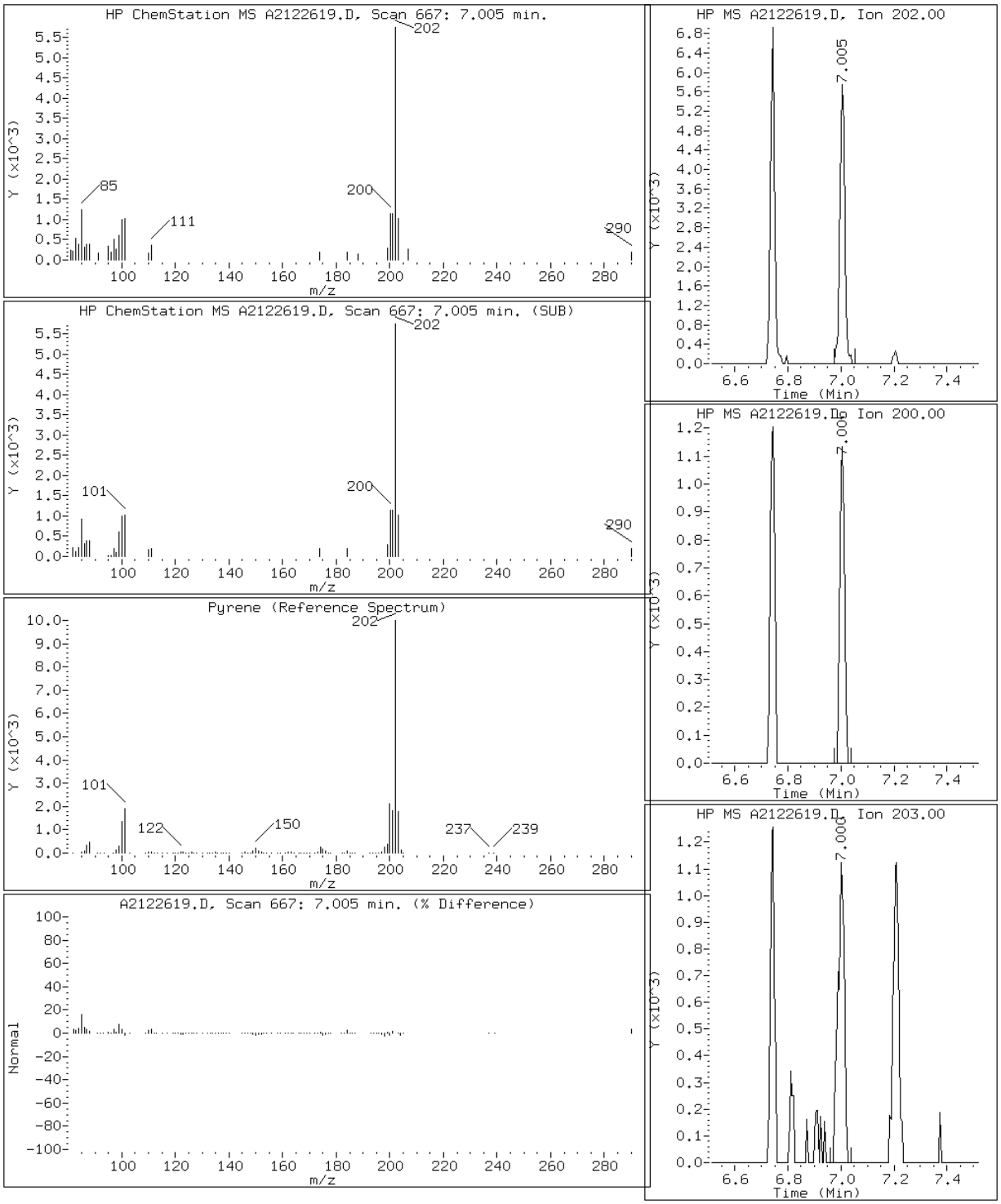
Data File: A2122619.D

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.: 680-85785-3

SDG No.: 68085785-3

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)	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

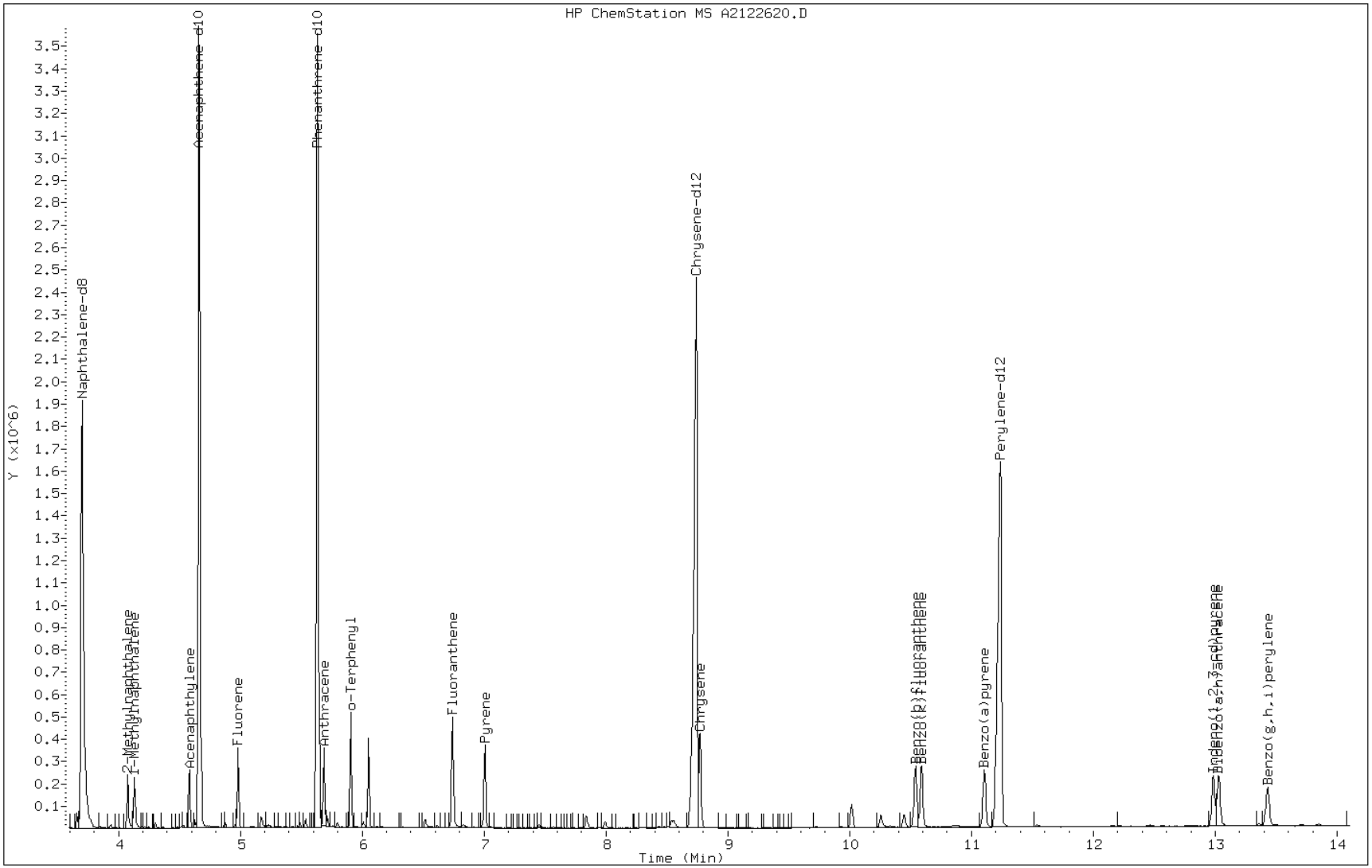
R - Spike/Surrogate failed recovery limits.

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.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511S-CS MS | Lab Sample ID: 680-85785-52 MS

Matrix: Solid | Lab File ID: A2122622.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.81(g) | Date Analyzed: 12/26/2012 19:29

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

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

% Moisture: 37.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	138		10	0.90
208-96-8	Acenaphthylene	129		10	0.82
120-12-7	Anthracene	181		10	1.0
56-55-3	Benzo[a]anthracene	373		10	0.96
50-32-8	Benzo[a]pyrene	480		10	1.1
205-99-2	Benzo[b]fluoranthene	638		10	1.5
191-24-2	Benzo[g,h,i]perylene	285		10	1.7
207-08-9	Benzo[k]fluoranthene	354		10	0.99
218-01-9	Chrysene	410		10	1.2
53-70-3	Dibenz(a,h)anthracene	202		10	1.0
206-44-0	Fluoranthene	496		10	0.93
86-73-7	Fluorene	144		10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	347		10	1.7
90-12-0	1-Methylnaphthalene	137		10	0.82
91-57-6	2-Methylnaphthalene	155		10	0.80
91-20-3	Naphthalene	143		10	0.80
85-01-8	Phenanthrene	319		10	0.68
129-00-0	Pyrene	440		10	0.80

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	76		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122622.D
Lab Smp Id: 680-85785-A-52-A MS Client Smp ID: CV0511S-CS
Inj Date : 26-DEC-2012 19:29
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-52-AMS~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: 4 QC Sample: MS
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	30.810	Weight Extracted
M	37.014	% 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	3.691	3.711	(1.000)	1577013	40.0000		
2 Naphthalene	128	3.701	3.721	(1.003)	123591	2.78245	140	
3 2-Methylnaphthalene	142	4.070	4.079	(1.103)	84269	3.00198	150	
4 1-Methylnaphthalene	142	4.126	4.136	(1.118)	77195	2.65733	140	
* 5 Acenaphthene-d10	164	4.659	4.663	(1.000)	804110	40.0000		
6 Acenaphthylene	152	4.582	4.587	(0.984)	107649	2.49799	130	
7 Acenaphthene	153	4.679	4.684	(1.004)	69559	2.67718	140	
8 Fluorene	166	4.982	4.986	(1.069)	84532	2.79372	140	
* 9 Phenanthrene-d10	188	5.632	5.637	(1.000)	1226307	40.0000		
10 Phenanthrene	176	5.648	5.652	(1.003)	49066	6.19805	320(R)	
11 Anthracene	178	5.689	5.688	(1.010)	147569	3.52180	180	
$ 12 o-Terphenyl	230	5.904	5.909	(1.048)	78777	3.03967	160	
13 Fluoranthene	202	6.749	6.749	(1.198)	468716	9.62779	500(R)	
* 14 Chrysene-d12	240	8.753	8.747	(1.000)	1489750	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	7.011	7.015	(0.801)	433618	8.54013	440(R)	
16 Benzo(a)anthracene	226	8.722	8.711	(0.996)	97588	7.23548	370(R)	
17 Chrysene	228	8.783	8.783	(1.004)	367683	7.96346	410(R)	
* 18 Perylene-d12	264	11.253	11.252	(1.000)	1341850	40.0000		
19 Benzo(b)fluoranthene	252	10.566	10.555	(0.939)	512746	12.3909	640(R)	
20 Benzo(k)fluoranthene	252	10.612	10.607	(0.943)	290216	6.86693	350(R)	
21 Benzo(a)pyrene	252	11.130	11.119	(0.989)	348391	9.31783	480(R)	
22 Indeno(1,2,3-cd)pyrene	276	13.026	13.010	(1.158)	254118	6.74391	350(R)	
23 Dibenzo(a,h)anthracene	278	13.067	13.051	(1.161)	149618	3.91924	200	
24 Benzo(g,h,i)perylene	276	13.497	13.460	(1.199)	206510	5.53196	280(R)	

QC Flag Legend

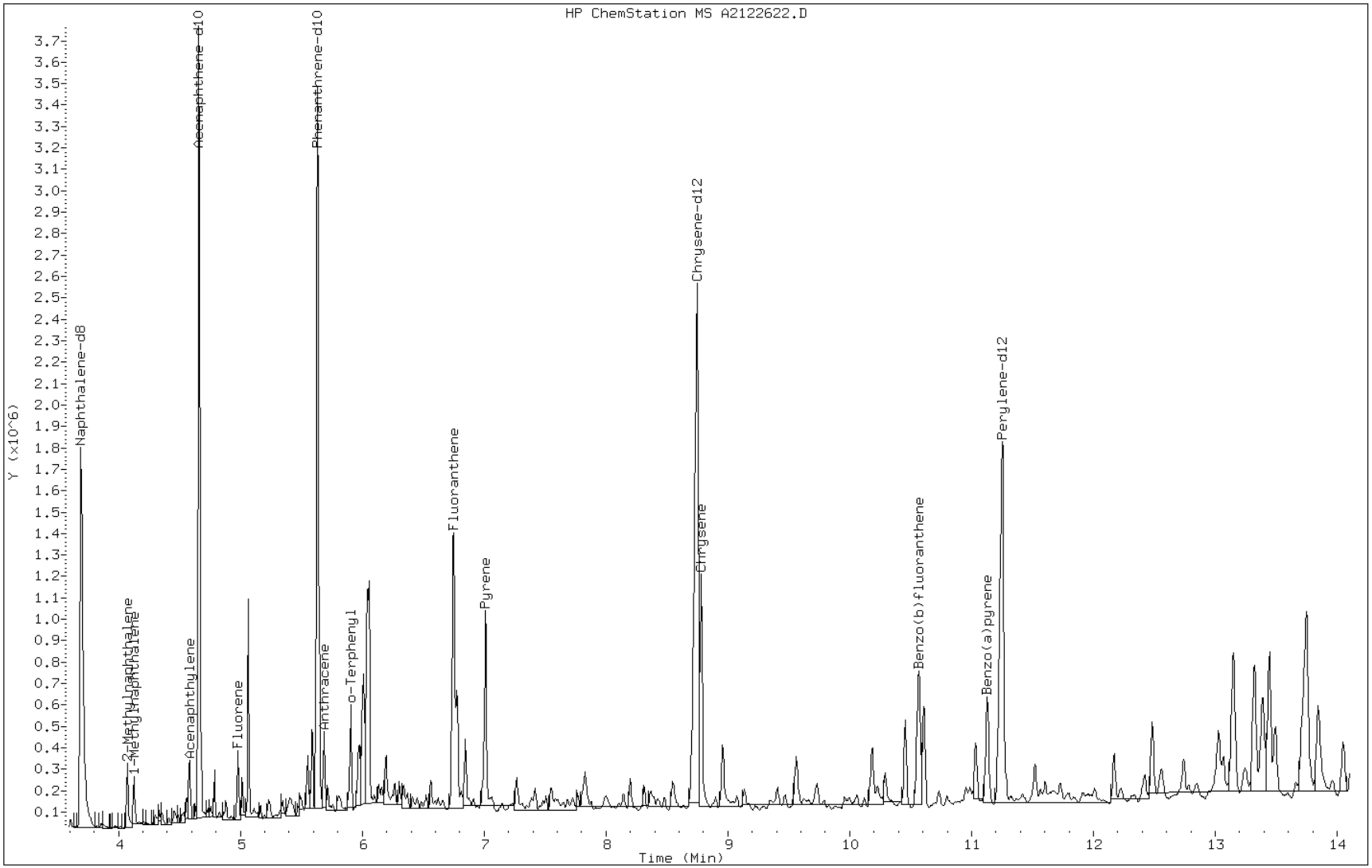
R - Spike/Surrogate failed recovery limits.

Data File: A2122622.D

Date: 26-DEC-2012 19:29

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-AMS~98123~1~8270D/625 Operator: VW



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tallahassee | Job No.: 680-85785-3

SDG No.: 68085785-3

Client Sample ID: CV0511S-CS MSD | Lab Sample ID: 680-85785-52 MSD

Matrix: Solid | Lab File ID: A2122623.D

Analysis Method: 8270D LL | Date Collected: 12/12/2012 14:00

Extract. Method: 3550C | Date Extracted: 12/17/2012 16:32

Sample wt/vol: 00030.31(g) | Date Analyzed: 12/26/2012 19:48

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

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

% Moisture: 37.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 98325 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130		11	0.91
208-96-8	Acenaphthylene	126		11	0.83
120-12-7	Anthracene	164		11	1.0
56-55-3	Benzo[a]anthracene	251		11	0.97
50-32-8	Benzo[a]pyrene	344		11	1.1
205-99-2	Benzo[b]fluoranthene	410		11	1.5
191-24-2	Benzo[g,h,i]perylene	213		11	1.7
207-08-9	Benzo[k]fluoranthene	275		11	1.0
218-01-9	Chrysene	271		11	1.2
53-70-3	Dibenz(a,h)anthracene	182		11	1.0
206-44-0	Fluoranthene	343		11	0.94
86-73-7	Fluorene	140		11	0.82
193-39-5	Indeno[1,2,3-cd]pyrene	257		11	1.7
90-12-0	1-Methylnaphthalene	133		11	0.83
91-57-6	2-Methylnaphthalene	147		11	0.82
91-20-3	Naphthalene	136		11	0.82
85-01-8	Phenanthrene	245		11	0.69
129-00-0	Pyrene	310		11	0.82

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl (Surr)	76		39-100

TestAmerica Tallahassee

Semivolatile REPORT SW-846 Method 8270

Data file : \\Talsvr05\chem\SM\TSMA5973.i\2A121226.b\A2122623.D
Lab Smp Id: 680-85785-A-52-B MS Client Smp ID: CV0511S-CS
Inj Date : 26-DEC-2012 19:48
Operator : VW Inst ID: TSMA5973.i
Smp Info : 680-85785-A-52-BMSD~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: 5 QC Sample: MSD
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	30.310	Weight Extracted
M	37.014	% 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)	1493032	40.0000		
2 Naphthalene	128	3.717	3.721	(1.004)	109184	2.59636	140	
3 2-Methylnaphthalene	142	4.075	4.079	(1.101)	74721	2.81157	150	
4 1-Methylnaphthalene	142	4.132	4.136	(1.116)	69690	2.53392	130	
* 5 Acenaphthene-d10	164	4.665	4.663	(1.000)	782111	40.0000		
6 Acenaphthylene	152	4.583	4.587	(0.982)	100566	2.39927	120	
7 Acenaphthene	153	4.680	4.684	(1.003)	62861	2.48330	130(R)	
8 Fluorene	166	4.982	4.986	(1.068)	78618	2.67135	140	
* 9 Phenanthrene-d10	188	5.633	5.637	(1.000)	1207611	40.0000		
10 Phenanthrene	176	5.648	5.652	(1.003)	36599	4.67494	240(R)	
11 Anthracene	178	5.689	5.688	(1.010)	129458	3.13740	160	
$ 12 o-Terphenyl	230	5.910	5.909	(1.049)	77831	3.04966	160	
13 Fluoranthene	202	6.745	6.749	(1.197)	314475	6.55957	340(R)	
* 14 Chrysene-d12	240	8.748	8.747	(1.000)	1479456	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	7.011	7.015	(0.801)	298376	5.91742	310(R)	
16 Benzo(a)anthracene	226	8.722	8.711	(0.997)	64555	4.80115	250(R)	
17 Chrysene	228	8.779	8.783	(1.004)	237338	5.17615	270(R)	
* 18 Perylene-d12	264	11.248	11.252	(1.000)	1335743	40.0000		
19 Benzo(b)fluoranthene	252	10.557	10.555	(0.939)	322795	7.83625	410(R)	
20 Benzo(k)fluoranthene	252	10.603	10.607	(0.943)	220649	5.24474	270(R)	
21 Benzo(a)pyrene	252	11.120	11.119	(0.989)	244781	6.57668	340(R)	
22 Indeno(1,2,3-cd)pyrene	276	13.016	13.010	(1.157)	184412	4.91639	260	
23 Dibenzo(a,h)anthracene	278	13.057	13.051	(1.161)	132216	3.47923	180	
24 Benzo(g,h,i)perylene	276	13.477	13.460	(1.198)	151336	4.07250	210	

QC Flag Legend

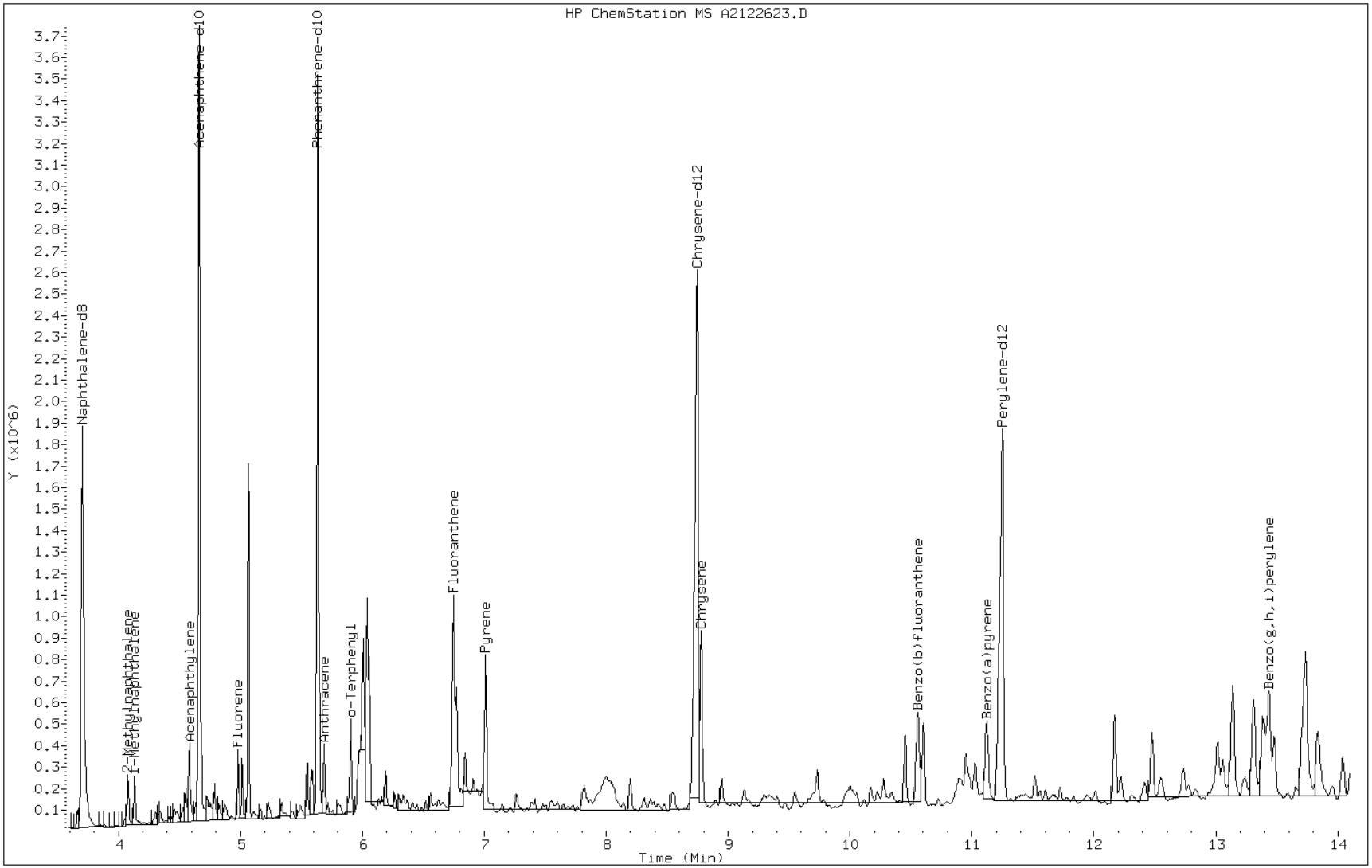
R - Spike/Surrogate failed recovery limits.

Data File: A2122623.D

Date: 26-DEC-2012 19:48

Client ID: CV0511S-CS Instrument: TSMA5973.i

Sample Info: 680-85785-A-52-BMSD~98123~1~8270D/625 Operator: VW



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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)
680-85785-44	CV0511K-CS	12/27/2012 09:28	1	A2122707.D	ZB-5MS 0.25(mm)
680-85785-46	CV0511M-CS	12/27/2012 10:07	1	A2122709.D	ZB-5MS 0.25(mm)
680-85785-48	CV0511O-CS	12/27/2012 10:45	1	A2122711.D	ZB-5MS 0.25(mm)
680-85785-51	CV0511R-CS	12/27/2012 11:43	1	A2122714.D	ZB-5MS 0.25(mm)
680-85785-53	CV0511T-CS	12/27/2012 12:02	1	A2122715.D	ZB-5MS 0.25(mm)
680-85785-58	CV0511Y-CS	12/27/2012 13:39	5	A2122720.D	ZB-5MS 0.25(mm)
680-85785-59	CV0511Z-CS	12/27/2012 13:58	1	A2122721.D	ZB-5MS 0.25(mm)
ZZZZZ		12/27/2012 17:28	20		ZB-5MS 0.25(mm)
680-85785-45	CV0511L-CS	12/27/2012 17:47	2	A2122724.D	ZB-5MS 0.25(mm)
680-85785-47	CV0511N-CS	12/27/2012 18:06	2	A2122725.D	ZB-5MS 0.25(mm)
680-85785-49	CV0511P-CS	12/27/2012 18:25	25	A2122726.D	ZB-5MS 0.25(mm)
680-85785-50	CV0511Q-CS	12/27/2012 18:45	25	A2122727.D	ZB-5MS 0.25(mm)
680-85785-54	CV0511U-CS	12/27/2012 19:03	2	A2122728.D	ZB-5MS 0.25(mm)
680-85785-55	CV0511V-CS	12/27/2012 19:21	2	A2122729.D	ZB-5MS 0.25(mm)
680-85785-56	CV0511W-CS	12/27/2012 19:40	2	A2122730.D	ZB-5MS 0.25(mm)
680-85785-57	CV0511X-CS	12/27/2012 19:58	25	A2122731.D	ZB-5MS 0.25(mm)
680-85785-60	CV0511AA-CS	12/27/2012 20:16	10	A2122732.D	ZB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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.: 680-85785-3

SDG No.: 68085785-3

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)
680-85785-52 MS	CV0511S-CS MS	12/26/2012 19:29	1	A2122622.D	ZB-5MS 0.25(mm)
680-85785-52 MSD	CV0511S-CS MSD	12/26/2012 19:48	1	A2122623.D	ZB-5MS 0.25(mm)
680-85785-52	CV0511S-CS	12/26/2012 20:07	1	A2122624.D	ZB-5MS 0.25(mm)
680-85785-42	CV0511I-CS	12/26/2012 20:46	1	A2122626.D	ZB-5MS 0.25(mm)
680-85785-43	CV0511J-CS	12/26/2012 21:05	1	A2122627.D	ZB-5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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-52 MS	CV0511S-CS	3550C, 8270D LL	T	00030.81 g	1.0 mL	1 mL	1 mL		
680-85785-A-52 MSD	CV0511S-CS	3550C, 8270D LL	T	00030.31 g	1.0 mL	1 mL	1 mL		
680-85785-A-52	CV0511S-CS	3550C, 8270D LL	T	00030.24 g	1.0 mL		1 mL		
680-85785-A-42	CV0511I-CS	3550C, 8270D LL	T	00030.33 g	1.0 mL		1 mL		
680-85785-A-43	CV0511J-CS	3550C, 8270D LL	T	00030.56 g	1.0 mL		1 mL		
680-85785-A-44	CV0511K-CS	3550C, 8270D LL	T	00030.33 g	1.0 mL		1 mL		
680-85785-A-45	CV0511L-CS	3550C, 8270D LL	T	00030.07 g	1.0 mL		1 mL		
680-85785-A-46	CV0511M-CS	3550C, 8270D LL	T	00030.88 g	1.0 mL		1 mL		
680-85785-A-47	CV0511N-CS	3550C, 8270D LL	T	00030.34 g	1.0 mL		1 mL		
680-85785-A-48	CV0511O-CS	3550C, 8270D LL	T	00030.69 g	1.0 mL		1 mL		
680-85785-A-49	CV0511P-CS	3550C, 8270D LL	T	00030.80 g	1.0 mL		1 mL		
680-85785-A-50	CV0511Q-CS	3550C, 8270D LL	T	00030.79 g	1.0 mL		1 mL		
680-85785-A-51	CV0511R-CS	3550C, 8270D LL	T	00030.48 g	1.0 mL		1 mL		
680-85785-A-53	CV0511T-CS	3550C, 8270D LL	T	00030.17 g	1.0 mL		1 mL		
680-85785-A-54	CV0511U-CS	3550C, 8270D LL	T	00030.04 g	1.0 mL		1 mL		
680-85785-A-55	CV0511V-CS	3550C, 8270D LL	T	00030.47 g	1.0 mL		1 mL		
680-85785-A-56	CV0511W-CS	3550C, 8270D LL	T	00030.43 g	1.0 mL		1 mL		
680-85785-A-57	CV0511X-CS	3550C, 8270D LL	T	00030.81 g	1.0 mL		1 mL		
680-85785-A-58	CV0511Y-CS	3550C, 8270D LL	T	00030.27 g	1.0 mL		1 mL		
680-85785-A-59	CV0511Z-CS	3550C, 8270D LL	T	00030.37 g	1.0 mL		1 mL		

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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		
680-85785-A-60	CV0511AA-CS	3550C, 8270D LL	T	00030.35 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: 680-85785-3

SDG No.: 68085785-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0511I-CS	680-85785-42
CV0511J-CS	680-85785-43
CV0511K-CS	680-85785-44
CV0511L-CS	680-85785-45
CV0511M-CS	680-85785-46
CV0511N-CS	680-85785-47
CV0511O-CS	680-85785-48
CV0511P-CS	680-85785-49
CV0511Q-CS	680-85785-50
CV0511R-CS	680-85785-51
CV0511S-CS	680-85785-52
CV0511T-CS	680-85785-53
CV0511U-CS	680-85785-54
CV0511V-CS	680-85785-55
CV0511W-CS	680-85785-56
CV0511X-CS	680-85785-57
CV0511Y-CS	680-85785-58
CV0511Z-CS	680-85785-59
CV0511AA-CS	680-85785-60

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job Number: 680-85785-3

SDG Number: 68085785-3

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.: 680-85785-3

SDG No.: 68085785-3

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																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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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680-85785-42	1	T	11:15	X																			
680-85785-43	1	T	11:15	X																			
680-85785-44	1	T	11:15	X																			
680-85785-45	1	T	11:15	X																			
680-85785-46	1	T	11:15	X																			
680-85785-47	1	T	11:15	X																			
680-85785-48	1	T	11:15	X																			
680-85785-49	1	T	11:15	X																			
680-85785-50	1	T	11:15	X																			
680-85785-51	1	T	11:15	X																			
680-85785-52	1	T	11:15	X																			
680-85785-52 MS	1	T	11:15	X																			
680-85785-52 MSD	1	T	11:15	X																			
680-85785-53	1	T	11:15	X																			
680-85785-54	1	T	11:15	X																			
680-85785-55	1	T	11:15	X																			
680-85785-56	1	T	11:15	X																			
680-85785-57	1	T	11:15	X																			
680-85785-58	1	T	11:15	X																			
680-85785-59	1	T	11:15	X																			
680-85785-60	1	T	11:15	X																			
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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.: 680-85785-3

SDG No.: 68085785-3

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-42	CV0511I-CS	Moisture	T	50	00000.99 g	00013.86 g	00010.01 g		
680-85785-A-43	CV0511J-CS	Moisture	T	51	00001.01 g	00014.59 g	00010.12 g		
680-85785-A-44	CV0511K-CS	Moisture	T	52	00001.01 g	00014.15 g	00010.42 g		
680-85785-A-45	CV0511L-CS	Moisture	T	53	00001.01 g	00015.01 g	00010.15 g		
680-85785-A-46	CV0511M-CS	Moisture	T	54	00000.98 g	00018.08 g	00012.35 g		
680-85785-A-47	CV0511N-CS	Moisture	T	55	00000.98 g	00014.60 g	00010.42 g		
680-85785-A-48	CV0511O-CS	Moisture	T	56	00001.01 g	00015.10 g	00010.00 g		
680-85785-A-49	CV0511P-CS	Moisture	T	57	00001.02 g	00014.63 g	00011.73 g		
680-85785-A-50	CV0511Q-CS	Moisture	T	58	00000.99 g	00014.72 g	00011.29 g		
680-85785-A-51	CV0511R-CS	Moisture	T	59	00001.05 g	00014.13 g	00009.74 g		
680-85785-A-52	CV0511S-CS	Moisture	T	60	00001.04 g	00015.71 g	00010.28 g		
680-85785-A-52 MS	CV0511S-CS	Moisture	T	61	00001.04 g	00015.70 g	00010.28 g		
680-85785-A-52 MSD	CV0511S-CS	Moisture	T	62	00001.04 g	00015.70 g	00010.28 g		
680-85785-A-53	CV0511T-CS	Moisture	T	63	00001.05 g	00015.31 g	00010.01 g		
680-85785-A-54	CV0511U-CS	Moisture	T	64	00001.06 g	00015.31 g	00010.24 g		
680-85785-A-55	CV0511V-CS	Moisture	T	65	00001.03 g	00016.23 g	00011.07 g		
680-85785-A-56	CV0511W-CS	Moisture	T	66	00001.00 g	00015.21 g	00010.27 g		
680-85785-A-57	CV0511X-CS	Moisture	T	67	00000.99 g	00015.55 g	00012.48 g		
680-85785-A-58	CV0511Y-CS	Moisture	T	68	00001.01 g	00014.90 g	00010.45 g		
680-85785-A-59	CV0511Z-CS	Moisture	T	69	00001.01 g	00014.94 g	00011.04 g		
680-85785-A-60	CV0511AA-CS	Moisture	T	70	00000.98 g	00014.99 g	00010.51 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tallahassee Job No.: 680-85785-3

SDG No.: 68085785-3

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 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: 678-355-6550	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: 6-PAH

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	6-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	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sa	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 signature]	12/14/12	0930	YES ○ NO ○		680-55785	5.2°/5.6°

TAL8240-680 (1008)

Serial Number 62730

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
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER: 2005718-1356	CONTRACT NO.
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-355-5330	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL	
CLIENT ADDRESS: 1220 Kennestone Circle Suite 106 Marietta GA		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 5 OF 6

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE: 4 PAH, RCRA8

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	4 PAH	RCRA8									REMARKS
12/12/12	1350	CV0511P-CS	C		X			X										Due within 14 days
	1355	CV0511Q-CS	C		X			X										
	1407	CV0511R-CS	C		X			X										
	1400	CV0511S-CS	C		X			X	X									
	1424	CV0511T-CS	C		X			X										
	1428	CV0511U-CS	C		X			X										
	1440	CV0511V-CS	C		X			X										
	1445	CV0511W-CS	C		X			X										
	1455	CV0511X-CS	C		X			X										
	1500	CV0511Y-CS	C		X			X										
	1515	CV0511Z-CS	C		X			X										
	1520	CV0511AA-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	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
[signature]	12/14/12	0930	YES ○ NO ○		680-85785	5.2 / 5.6

12/28/2012

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-85785-3
SDG Number: 68085785-3

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: 680-85785-3
SDG Number: 68085785-3

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: 680-85785-3
SDG Number: 68085785-3

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	