Lancaster Laboratories

January 21, 2008

Mr. Jim Marolda
Brown & Caldwell
234 Hudson Avenue
Albany, NY 12210

Dear Mr. Marolda:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No. Troy, NY Project

LLI Sample No.	Client Sample Identification	Collection Date
5118301 to 5118306	Soil Samples	08/01/07

The correction to the data affects the PAHs analysis (EPA 8270) analysis only.

You asked why the results on our summary report forms (our analytical reports) were different from the data presented in the Form 1 reports in the data package. After reviewing the reports, I realized that our reports presented the results on an "as-received" basis, while the Form 1 reports were reported on a "dry-weight" basis. Since the dry-weight basis is typically used for soil data, we are reformatting our analytical reports to report them in a dry-weight basis.

You noticed the moisture content on the report. To calculate the results on a dry-weight basis, we multiply the result by this factor (100%/[100% - % moisture]). This is designed to report the result as though there were no moisture present in the soil. This change will affect both the reported results and the Method Detection Limit listed on the report.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1559. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

Richard Entz
Principal Specialist
Environmental Client Services

RE/mcs
Enclosures

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681
www.lancasterabs.com

Shipping Address:
Lancaster Laboratories, Inc.
2425 New Holland Pike
Lancaster, PA 17601

Lancaster Laboratories

REVISED

ANALYTICAL RESULTS

Prepared for:

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

201-574-4700

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1049645. Samples arrived at the laboratory on Thursday, August 02, 2007.

Client Description	Lancaster Labs Number
TP-217(3.5-4.5) Unspiked Grab Soil Sample	5118301
TP-217(3.5-4.5) Matrix Spike Grab Soil Sample	5118302
TP-217(3.5-4.5) Matrix Spike Dup Grab Soil Sample	5118303
TP-218(1-2.5) Grab Soil Sample	5118304
TP-217(4.5-6) Grab Soil Sample	5118305
DUP080107 Grab Soil Sample	5118306
EB080107 Grab Water Sample	5118307

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	Brown & Caldwell	Attn: Jim Marolda
1 COPY TO	Data Package Group	

Lancaster Laboratories

REVISED

Questions? Contact your Client Services Representative
Richard C Entz at (717) 656-2300

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. SW5118301 **Group No. 1049645**

TP-217(3.5-4.5) Unspiked Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	22.2		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	N.D.		43.	ug/kg	1
01195	Pyrene	129-00-0	570.		43.	ug/kg	1
03761	Naphthalene	91-20-3	770.		43.	ug/kg	1
03765	Acenaphthylene	208-96-8	380.		43.	ug/kg	1
03768	Fluorene	86-73-7	290.		43.	ug/kg	1
03775	Phenanthrene	85-01-8	170.	J	43.	ug/kg	1
03776	Anthracene	120-12-7	250.		43.	ug/kg	1
03778	Fluoranthene	206-44-0	490.		43.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	180.	J	43.	ug/kg	1
03782	Chrysene	218-01-9	200.	J	43.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	150.	J	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	77.	J	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	110.	J	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	66.	J	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	75.	J	43.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 00:18	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	3	08/15/2007 12:30	Patricia L Foreman	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW5118302 **Group No. 1049645**

TP-217(3.5-4.5) Matrix Spike Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00118	Moisture	n.a.	22.2	0.50	%	1
07804	PAHs in Soil by GC/MS					
01191	Acenaphthene	83-32-9	2,000.	43.	ug/kg	1
01195	Pyrene	129-00-0	2,600.	43.	ug/kg	1
03761	Naphthalene	91-20-3	2,500.	43.	ug/kg	1
03765	Acenaphthylene	208-96-8	2,400.	43.	ug/kg	1
03768	Fluorene	86-73-7	2,100.	43.	ug/kg	1
03775	Phenanthrene	85-01-8	2,100.	43.	ug/kg	1
03776	Anthracene	120-12-7	2,200.	43.	ug/kg	1
03778	Fluoranthene	206-44-0	2,100.	43.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	2,100.	43.	ug/kg	1
03782	Chrysene	218-01-9	2,100.	43.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,000.	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,900.	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,100.	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,800.	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	1,900.	43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,800.	43.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00118	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 00:39	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	2	08/15/2007 12:30	Patricia L Foreman	1

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Lancaster Laboratories

REVISED

Lancaster Laboratories Sample No. SW5118303 **Group No. 1049645**

TP-217(3.5-4.5) Matrix Spike Dup Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00118	Moisture	n.a.	22.2	0.50	%	1
00121	Moisture Duplicate	n.a.	20.4	0.50	%	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
07804	PAHs in Soil by GC/MS					
01191	Acenaphthene	83-32-9	2,100.	43.	ug/kg	1
01195	Pyrene	129-00-0	2,700.	43.	ug/kg	1
03761	Naphthalene	91-20-3	2,700.	43.	ug/kg	1
03765	Acenaphthylene	208-96-8	2,500.	43.	ug/kg	1
03768	Fluorene	86-73-7	2,200.	43.	ug/kg	1
03775	Phenanthrene	85-01-8	2,300.	43.	ug/kg	1
03776	Anthracene	120-12-7	2,300.	43.	ug/kg	1
03778	Fluoranthene	206-44-0	2,300.	43.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	2,200.	43.	ug/kg	1
03782	Chrysene	218-01-9	2,100.	43.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,000.	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	2,100.	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,200.	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,900.	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	2,000.	43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,900.	43.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00118	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 01:00	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	2	08/15/2007 12:30	Patricia L Foreman	1

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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. SW5118304 **Group No. 1049645**

TP-218(1-2.5) Grab Soil Sample
Troy, NY

Collected:08/01/2007 15:10 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP218 SDG#: TRY01-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	14.3		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	120.	J	39.	ug/kg	1
01195	Pyrene	129-00-0	7,800.		190.	ug/kg	5
03761	Naphthalene	91-20-3	260.		39.	ug/kg	1
03765	Acenaphthylene	208-96-8	1,600.		39.	ug/kg	1
03768	Fluorene	86-73-7	2,400.		39.	ug/kg	1
03775	Phenanthrene	85-01-8	3,200.		39.	ug/kg	1
03776	Anthracene	120-12-7	1,600.		39.	ug/kg	1
03778	Fluoranthene	206-44-0	7,700.		190.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	5,700.		190.	ug/kg	5
03782	Chrysene	218-01-9	4,900.		190.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	6,700.		190.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	2,500.		39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	4,000.		39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	2,400.		39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	970.		39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	2,300.		39.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:07	Florida A Cimino	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/12/2007 22:55	Florida A Cimino	5
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW5118305 **Group No. 1049645**

TP-217(4.5-6) Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:30 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

4T217 SDG#: TRY01-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	13.5		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	N.D.		39.	ug/kg	1
01195	Pyrene	129-00-0	63.	J	39.	ug/kg	1
03761	Naphthalene	91-20-3	150.	J	39.	ug/kg	1
03765	Acenaphthylene	208-96-8	330.		39.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		39.	ug/kg	1
03775	Phenanthrene	85-01-8	44.	J	39.	ug/kg	1
03776	Anthracene	120-12-7	69.	J	39.	ug/kg	1
03778	Fluoranthene	206-44-0	43.	J	39.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	85.	J	39.	ug/kg	1
03782	Chrysene	218-01-9	65.	J	39.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	50.	J	39.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.		39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.		39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	79.	J	39.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:27	Florida A Cimino	1
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW5118306 **Group No. 1049645**

DUP080107 Grab Soil Sample
Troy, NY

Collected:08/01/2007 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

FD801 SDG#: TRY01-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	14.6		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	140.	J	39.	ug/kg	1
01195	Pyrene	129-00-0	8,400.		200.	ug/kg	5
03761	Naphthalene	91-20-3	310.		39.	ug/kg	1
03765	Acenaphthylene	208-96-8	2,300.		39.	ug/kg	1
03768	Fluorene	86-73-7	390.		39.	ug/kg	1
03775	Phenanthrene	85-01-8	3,100.		39.	ug/kg	1
03776	Anthracene	120-12-7	1,900.		39.	ug/kg	1
03778	Fluoranthene	206-44-0	8,200.		200.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	6,600.		200.	ug/kg	5
03782	Chrysene	218-01-9	5,600.		200.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	8,200.		200.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	2,900.		39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	5,300.		200.	ug/kg	5
03789	Indeno(1,2,3-cd)pyrene	193-39-5	3,200.		39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	1,100.		39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,200.		39.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:48	Florida A Cimino	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/12/2007 23:16	Florida A Cimino	5
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW5118307 **Group No. 1049645**

EB080107 Grab Water Sample
Troy, NY

Collected:08/01/2007 13:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 01/21/2008 at 09:09
Discard: 04/21/2008

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

EB801 SDG#: TRY01-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07805	PAHs in Water by GC/MS	SW-846 8270C	1	08/03/2007 23:44	Gregory J Drahovsky	1
07807	BNA Water Extraction	SW-846 3510C	1	08/03/2007 14:00	Eric M Walker	1

Lancaster Laboratories, Inc.
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: Brown & Caldwell
Reported: 01/21/08 at 09:09 AM

Group Number: 1049645

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07215820004B	Sample number(s): 5118301-5118306							
Moisture				100		99-101		
Moisture				100		99-101		
Moisture Duplicate				100		99-101		
Batch number: 07215WAD026	Sample number(s): 5118307							
Naphthalene	N.D.	1.	ug/l	96	92	68-108	4	30
Acenaphthylene	N.D.	1.	ug/l	97	95	67-123	2	30
Acenaphthene	N.D.	1.	ug/l	98	95	68-111	3	30
Fluorene	N.D.	1.	ug/l	100	98	72-119	3	30
Phenanthrene	N.D.	1.	ug/l	97	95	68-111	2	30
Anthracene	N.D.	1.	ug/l	96	94	68-108	2	30
Fluoranthene	N.D.	1.	ug/l	98	95	66-112	3	30
Pyrene	N.D.	1.	ug/l	100	96	68-116	5	30
Benzo(a)anthracene	N.D.	1.	ug/l	94	91	70-114	3	30
Chrysene	N.D.	1.	ug/l	100	97	70-111	2	30
Benzo(b)fluoranthene	N.D.	1.	ug/l	105	102	65-124	3	30
Benzo(k)fluoranthene	N.D.	1.	ug/l	115	114	67-124	1	30
Benzo(a)pyrene	N.D.	1.	ug/l	115	112	68-121	2	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	109	107	61-124	2	30
Dibenz(a,h)anthracene	N.D.	1.	ug/l	117	115	70-131	2	30
Benzo(g,h,i)perylene	N.D.	1.	ug/l	115	112	67-126	3	30
Batch number: 07220SLC026	Sample number(s): 5118304-5118306							
Acenaphthene	N.D.	33.	ug/kg	87		74-110		
Pyrene	N.D.	33.	ug/kg	98		67-116		
Naphthalene	N.D.	33.	ug/kg	82		69-105		
Acenaphthylene	N.D.	33.	ug/kg	88		73-114		
Fluorene	N.D.	33.	ug/kg	82		66-115		
Phenanthrene	N.D.	33.	ug/kg	91		70-107		
Anthracene	N.D.	33.	ug/kg	90		69-109		
Fluoranthene	N.D.	33.	ug/kg	79		66-109		
Benzo(a)anthracene	N.D.	33.	ug/kg	88		72-112		
Chrysene	N.D.	33.	ug/kg	91		71-112		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	92		66-123		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	87		67-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	92		69-119		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	85		59-122		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	88		70-130		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	86		63-124		
Batch number: 07226SLE026	Sample number(s): 5118301-5118303							
Acenaphthene	N.D.	33.	ug/kg	89		74-110		
Pyrene	N.D.	33.	ug/kg	99		67-116		
Naphthalene	N.D.	33.	ug/kg	84		69-105		
Acenaphthylene	N.D.	33.	ug/kg	97		73-114		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Quality Control Summary

Client Name: Brown & Caldwell
Reported: 01/21/08 at 09:09 AM

Group Number: 1049645

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	N.D.	33.	ug/kg	90		66-115		
Phenanthrene	N.D.	33.	ug/kg	93		70-107		
Anthracene	N.D.	33.	ug/kg	91		69-109		
Fluoranthene	N.D.	33.	ug/kg	87		66-109		
Benzo(a)anthracene	N.D.	33.	ug/kg	88		72-112		
Chrysene	N.D.	33.	ug/kg	90		71-112		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	79		66-123		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	99		67-122		
Benzo(a)pyrene	N.D.	33.	ug/kg	90		69-119		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	78		59-122		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	85		70-130		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	79		63-124		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 07215820004B	Sample number(s): 5118301-5118306					BKG: 5118301			
Moisture						22.2	20.4	8	15
Moisture						22.2	20.4	8	15
Moisture Duplicate						22.2	20.4	8	15
Batch number: 07220SLC026	Sample number(s): 5118304-5118306 UNSPK: P118301								
Acenaphthene	80	46*	48-129	54*	30				
Pyrene	87	48	3-170	49*	30				
Naphthalene	76	40	40-126	48*	30				
Acenaphthylene	81	43*	45-144	54*	30				
Fluorene	76	42	39-139	51*	30				
Phenanthrene	79	44	1-184	54*	30				
Anthracene	80	45	40-135	51*	30				
Fluoranthene	72	38	1-172	50*	30				
Benzo(a)anthracene	82	44	36-140	55*	30				
Chrysene	77	45	33-145	49*	30				
Benzo(b)fluoranthene	73	42	33-147	50*	30				
Benzo(k)fluoranthene	78	43	36-141	58*	30				
Benzo(a)pyrene	76	44	16-160	51*	30				
Indeno(1,2,3-cd)pyrene	72	45	27-145	46*	30				
Dibenz(a,h)anthracene	75	46	36-151	48*	30				
Benzo(g,h,i)perylene	73	43	26-148	50*	30				
Batch number: 07226SLE026	Sample number(s): 5118301-5118303 UNSPK: 5118301								
Acenaphthene	94	96	48-129	3	30				
Pyrene	93	99	3-170	5	30				
Naphthalene	79	89	40-126	9	30				
Acenaphthylene	96	99	45-144	3	30				
Fluorene	86	89	39-139	3	30				
Phenanthrene	92	98	1-184	6	30				
Anthracene	90	95	40-135	5	30				
Fluoranthene	77	85	1-172	7	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: Brown & Caldwell
Reported: 01/21/08 at 09:09 AM

Group Number: 1049645

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	91	95	36-140	4	30				
Chrysene	89	88	33-145	1	30				
Benzo(b)fluoranthene	84	87	33-147	3	30				
Benzo(k)fluoranthene	87	95	36-141	8	30				
Benzo(a)pyrene	93	97	16-160	4	30				
Indeno(1,2,3-cd)pyrene	81	84	27-145	4	30				
Dibenz(a,h)anthracene	91	96	36-151	5	30				
Benzo(g,h,i)perylene	81	84	26-148	4	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAHs in Water by GC/MS
Batch number: 07215WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5118307	82	90	96
Blank	86	93	97
LCS	90	96	102
LCSD	87	94	99
Limits:	51-123	63-118	52-151

Analysis Name: PAHs in Soil by GC/MS
Batch number: 07220SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5118304	99	80	82
5118305	102	87	96
5118306	104	89	104
Blank	110	95	107
LCS	101	87	95
MS	93	79	80
MSD	54	42*	48*
Limits:	47-128	55-123	49-134

Analysis Name: PAHs in Soil by GC/MS
Batch number: 07226SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5118301	80	90	95
5118302	88	95	105
5118303	88	99	109
Blank	77	88	96
LCS	80	89	99
MS	88	95	105
MSD	88	99	109

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Lancaster, PA 17605-2425
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Lancaster Laboratories

Quality Control Summary

Client Name: Brown & Caldwell
Reported: 01/21/08 at 09:09 AM

Group Number: 1049645

Surrogate Quality Control

Limits:	47-128	55-123	49-134

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Lancaster Laboratories

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Type I Data Package
for
Brown & Caldwell

SDG# TRY01

Project: Troy, NY
Soil and Water Samples
Collected on 08/01/07
Sample No. 5118301-5118307

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521

Prepared by _____

Reviewed by _____

Date 8-27-07

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Table of Contents for SDG# TRY01

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Reference List for SDG Number TRY01 with a Data Package Type of I

09286 - Brown & Caldwell

Project: Troy, NY

Lab Sample Number	Lab Sample Code	Client Sample Description
5118301	TP217	TP-217(3.5-4.5) Unspiked Grab Soil Sample
5118302	TP217	TP-217(3.5-4.5) Matrix Spike Grab Soil Sample
5118303	TP217	TP-217(3.5-4.5) Matrix Spike Dup Grab Soil Sample
5118304	TP218	TP-218(1-2.5) Grab Soil Sample
5118305	4T217	TP-217(4.5-6) Grab Soil Sample
5118306	FD801	DUP080107 Grab Soil Sample
5118307	EB801	EB080107 Grab Water Sample

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 9286 Group# 1049645 Sample # 5118801-07

COC # 0162114

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: Brown and Caldwell Acct. #: ______
Project Name/#: Troy Supplemental Inv. PWSID #: ______
Project Manager: Robert Oneil P.O.#: ______
Sampler: JLM, JHC Quote #: ______
Name of state where samples were collected: NY

For Lab Use Only
FSC: ______
SCR#: 46633

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6) Remarks

(2) (3) (4) (5) Preservation Codes

(2) Sample Identification	Date	Time	(3)			(4)	Moisture	PAHs 8270	Remarks
TP-217 (3.5-4.5)	08/01/07	09:00	X	X		1	X	X	
TP-217 (3.5-4.5) MS/MSD	08/01/07	09:00	X	X		2	X	X	
TP-218 (1-2.5)	08/01/07	15:10	X	X		1	X	X	
TP-217 (4.5-6)	08/01/07	09:30	X	X		1	X	X	
DUP080107	08/01/07	99:99	X	X		1	X	X	
EB080107	8/01/07	13:00	X		X	2		X	

(7) **Turnaround Time Requested** (TAT) (please circle) (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: ______
Rush results requested by (please circle): Phone Fax E-mail
Phone #: ______ Fax #: ______
E-mail address: ______

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? (Yes) No
Site-specific QC (MS/MSD/Dup)? (Yes) No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No ______

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
K. Gunter	7-27-07	1000			
[signature]	8/1/07	1900			
			[signature]	8/2/07	0925

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Group # 1049645

Environmental Sample Administration
Receipt Documentation Log

Client/Project: Brown & Caldwell

Date of Receipt: 8/1/07

Time of Receipt: 0925

Source Code: 50-1

Unpacker Emp. No.: 1454

Shipping Container Sealed: (Y) / N

Custody Seal Present: (Y) / N

Custody Seal Intact: (Y) / N / NA

Package: (Chilled) / Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	042292	5.2c	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[illegible]	8/1/07	1455	Unpacking to Storage
[illegible]	8/2/07	1543	Place in Storage or Entry
			Entry
			Entry

Chain-of-Custody Record

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody
Original Sample

Client/Project: Brown & Caldwell / Troy, NY

Preservative: None Matrix: SW SDG: TRY01

Sample # Range of Entry Group: 5118301-07 Bottle Type: (96) 500mL glass

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
5118301	391 Bedard	SA Storage	8/2/07	1600	Entry to Storage	
5118301	SA Storage	182 in Zimmerman	8/2/07	2328	Homog. + Sub-Sample	
5118301	182 in Zimmerman	main Storage	8/3/07	0031	Storage	
					8885	

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601-5994

Secure Storage Chain of Custody
Subsample

Client/Project: Brown + Caldwell / Troy, NY

Preservative: NONE Matrix: SW

Sample # Range for Entry Group: 5118301-307 Bottle Type: 2L 1,000 ml glass jar

SDG: TRY01

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
5118301-3	182 Zimmerman	main Storage	8/2/07	0031	Storage	
5118301-3	main storage	LFuerst 120	8/3/07	1657	Moist	
5118301-3	LFuerst 120	main storage	8/3/07	1705	Storage	
5118301-03	main storage	JRice 1324	8-8-07	15:45	semi prep	X
5118301-03	JRice 1324	main storage	8-8-07	16:00	storage	
5118301	Main Storage	DR-2055	8-11-07	8:20	STORAGE	
5118301	DR-2055	main storage	8-11-07	8:50	storage	
					0006	

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody
Original Sample

Client/Project: Brown & Caldwell / Troy, NY _____

Preservative: None _____ Matrix: SW _____ SDG: TRY01 _____

Sample # Range of Entry Group: 5118301-07 Bottle Type: (20) 500mL glass

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
5118304-06	391 T Bedard	SA Storage	8/2/07	1600	Entry to Storage	
5118304-6	SA Storage	1&2 Zimmerman	8/2/07	2328	Homog + Sub Sample	
5118304-6	1&2 Zimmerman	main Storage	8/3/07	0031	Storage	
5118304-6	main Storage	S Fenske 201	8/3/07	1657	MOIST	
5118304-6	S Fenske 201	main Storage	8/3/07	1705	Storage	
5118304-06	main Storage	J Rice 1324	8-6-07	15:45	semi prep	X
5118304-06	J Rice 1324	main Storage	8-6-07	16:00	storage	
5118301-03	main storage	D. Faccia 2043	8/15/07	12:00	semi prep	X
5118301-03	D. Faccia 2043	main storage	8/15/07	12:30	storage	

2016.01

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Secure Storage Chain of Custody
Original Sample

Client/Project: Brown & Caldwell / Troy, NY

Preservative: Na2S2O3 Matrix: WW SDG: TRY01

Sample # Range of Entry Group: 5118301-07 Bottle Type: (45) 1000mL amber

Sample Number(s) in Custody	Released By	Received By	Date of Transfer	Time of Transfer	Reason for Change of Custody	Dist., Extr., or Digest Chain Created (X)
5118307	391 TBedard	SA Storage	8/2/07	1600	Entry to Storage	
5118307	SA Storage	BSL2 189	8/3/07	0800	Transfer to storage	
5118307	BSL2 189	main Storage	8/3/07	0805	storage	
5118307	MAIN Storage	EW 2033	8/3/07	13:00	BNA water prep	X
5118307	EW 2033	main Storage	8/3/07	19:15	Storage	

Lancaster Laboratories

Organic Extraction

Secure Storage Chain of Custody

Extract

BATCH NO. 07215WAD026

Client Brown & Caldwell

SDG: TRY01

Analysis: PAH by GC/MS - Water

Sample IDs

5118307

Sample Number(s)	Released by	Received by	Date	Time	Reason for Change of Custody
5118307	EW 3033	Dept 26 Storage	8/3/07	1900	Storage
5118307	Dept. 26	[illegible] 1176	8/3/07	19:15	Internalization
5118307	[illegible] 1176	HP 11165	8/3/07	19:20	Analysis
5118307	HP 11165	013	8/6/07	01:15	REMOVE FROM INSTRUMENT
5118307	013	DP 26 STORAGE	8/6/07	01:30	STORAGE
					8889

Lancaster Laboratories

Organic Extraction
Secure Storage Chain of Custody
Extract

BATCH NO. 07220SLC026

Client Brown & Caldwell

SDG: TRY01

Analysis: PAH by GC/MS - Soil/Solid

Sample IDs

5118301	5118302	5118303	5118304	5118305	5118306

Sample Number(s)	Released by	Received by	Date	Time	Reason for Change of Custody
5118301-06	J Rice 1314	Dept 26	8-8-07 1314 8-8-07	22:35	storage
5118301-06	Dept 26	R.Byrne 1542	8-9-07	10:00	Intermediate Extracts
5118301-06	R.Byrne 1542	HP10623	8-9-07	15:00	Placed on Instrument
~~5118301-06~~	~~1551~~	~~8-12-07~~			
5118301-06	~~HP10623~~ 1551	F C 1551	8-12-07	15:00	recapping
5118301-06	F C 1551	Dept 26	8-12-07	15:10	storage
5118304,06	storage	F C 1551	8/2/07	1728	dilutions
5118304,06	F. C 1551	HP10623	8-12-07	1740	placed dilutions on instrument (and originals)
5116304,06	HP10623	[illegible]	8-13-07	0345	RECAPPED
5116304,06	[illegible]	Dept. 26 STORAGE	8-13-07	0400	STORAGE
					8818

Lancaster Laboratories

Organic Extraction
Secure Storage Chain of Custody
Extract

BATCH NO. 07226SLE026

Client Brown & Caldwell

SDG: TRY01

Analysis: PAH by GC/MS - Soil/Solid

Sample IDs

5118301	5118302	5118303

Sample Number(s)	Released by	Received by	Date	Time	Reason for Change of Custody
5118301-03	D. Foreman 2043	Dept 26	8/15/07	5:45	storage
5118301-03	Dept 26	HP11165	8/15/07	16:00	Intermalization
5118301-03	HP11165	HP10623	8/15/07	16:10	Analysis
5118301-03	HP10623		8/15/07	17:50	Moved to HP10623
5118301-03			08/15/07	20:15	PAH ANALYSIS
5118301-03		HP10623	08/15/07	20:16	PLACED ON SYSTEM
5118301-03	HP10623		08/16/07	1:35	Removed from system
5118301-03		Dept 26	08/16/07	1:36	storage

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07806 BNA Soil Extraction

The sample aliquot is extracted using sonic probe with 1:1 methylene chloride and acetone. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3550B, December 1996.

07807 BNA Water Extraction

The sample aliquot is extracted with methylene chloride by either separatory funnel or liquid/liquid apparatus. Extraction is performed at a pH of 2. The extract is concentrated prior to analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, December 1996

07804 PAHs in Soil by GC/MS
07805 PAHs in Water by GC/MS

The sample extract is analyzed by capillary column Gas Chromatography/Mass Spectrometry.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8270C, December 1996

00111 Moisture
00118 Moisture
00121 Moisture Duplicate

A well-mixed sample is placed in a tared container and dried to a constant weight in an oven at 103-105C. The increase in weight is the total solids.

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, Method 2540 G

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

201-574-4700

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1049645. Samples arrived at the laboratory on Thursday, August 02, 2007.

Client Description	Lancaster Labs Number
TP-217(3.5-4.5) Unspiked Grab Soil Sample	5118301
TP-217(3.5-4.5) Matrix Spike Grab Soil Sample	5118302
TP-217(3.5-4.5) Matrix Spike Dup Grab Soil Sample	5118303
TP-218(1-2.5) Grab Soil Sample	5118304
TP-217(4.5-6) Grab Soil Sample	5118305
DUP080107 Grab Soil Sample	5118306
EB080107 Grab Water Sample	5118307

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO	Brown & Caldwell	Attn: Jim Marolda
1 COPY TO	Data Package Group	

0013

Lancaster Laboratories

Questions? Contact your Client Services Representative
Richard C Entz at (717) 656-2300

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader

8814

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118301

TP-217(3.5-4.5) Unspiked Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	22.2		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	N.D.		33.	ug/kg	1
01195	Pyrene	129-00-0	440.		33.	ug/kg	1
03761	Naphthalene	91-20-3	600.		33.	ug/kg	1
03765	Acenaphthylene	208-96-8	290.		33.	ug/kg	1
03768	Fluorene	86-73-7	220.		33.	ug/kg	1
03775	Phenanthrene	85-01-8	140.	J	33.	ug/kg	1
03776	Anthracene	120-12-7	190.		33.	ug/kg	1
03778	Fluoranthene	206-44-0	380.		33.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	140.	J	33.	ug/kg	1
03782	Chrysene	218-01-9	160.	J	33.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	120.	J	33.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	60.	J	33.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	83.	J	33.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	51.	J	33.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		33.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	58.	J	33.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 00:18	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	3	08/15/2007 12:30	Patricia L Foreman	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118302

TP-217(3.5-4.5) Matrix Spike Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00118	Moisture	n.a.	22.2	0.50	%	1
07804	PAHs in Soil by GC/MS					
01191	Acenaphthene	83-32-9	2,000.	43.	ug/kg	1
01195	Pyrene	129-00-0	2,600.	43.	ug/kg	1
03761	Naphthalene	91-20-3	2,500.	43.	ug/kg	1
03765	Acenaphthylene	208-96-8	2,400.	43.	ug/kg	1
03768	Fluorene	86-73-7	2,100.	43.	ug/kg	1
03775	Phenanthrene	85-01-8	2,100.	43.	ug/kg	1
03776	Anthracene	120-12-7	2,200.	43.	ug/kg	1
03778	Fluoranthene	206-44-0	2,100.	43.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	2,100.	43.	ug/kg	1
03782	Chrysene	218-01-9	2,100.	43.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,000.	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,900.	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,100.	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,800.	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	1,900.	43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,800.	43.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00118	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 00:39	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	2	08/15/2007 12:30	Patricia L Foreman	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118303

TP-217(3.5-4.5) Matrix Spike Dup Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:00 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP217 SDG#: TRY01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00118	Moisture	n.a.	22.2	0.50	%	1
00121	Moisture Duplicate	n.a.	20.4	0.50	%	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
07804	PAHs in Soil by GC/MS					
01191	Acenaphthene	83-32-9	2,100.	43.	ug/kg	1
01195	Pyrene	129-00-0	2,700.	43.	ug/kg	1
03761	Naphthalene	91-20-3	2,700.	43.	ug/kg	1
03765	Acenaphthylene	208-96-8	2,500.	43.	ug/kg	1
03768	Fluorene	86-73-7	2,200.	43.	ug/kg	1
03775	Phenanthrene	85-01-8	2,300.	43.	ug/kg	1
03776	Anthracene	120-12-7	2,300.	43.	ug/kg	1
03778	Fluoranthene	206-44-0	2,300.	43.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	2,200.	43.	ug/kg	1
03782	Chrysene	218-01-9	2,100.	43.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	2,000.	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	2,100.	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	2,200.	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,900.	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	2,000.	43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,900.	43.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00118	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
00121	Moisture Duplicate	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/16/2007 01:00	Linda M Hartenstine	1
07806	BNA Soil Extraction	SW-846 3550B	2	08/15/2007 12:30	Patricia L Foreman	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118304

TP-218(1-2.5) Grab Soil Sample
Troy, NY

Collected:08/01/2007 15:10 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

TP218 SDG#: TRY01-02

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	14.3		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	99.	J	33.	ug/kg	1
01195	Pyrene	129-00-0	6,700.		170.	ug/kg	5
03761	Naphthalene	91-20-3	220.		33.	ug/kg	1
03765	Acenaphthylene	208-96-8	1,400.		33.	ug/kg	1
03768	Fluorene	86-73-7	2,100.		33.	ug/kg	1
03775	Phenanthrene	85-01-8	2,700.		33.	ug/kg	1
03776	Anthracene	120-12-7	1,400.		33.	ug/kg	1
03778	Fluoranthene	206-44-0	6,600.		170.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	4,900.		170.	ug/kg	5
03782	Chrysene	218-01-9	4,200.		170.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	5,700.		170.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	2,100.		33.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	3,500.		33.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	2,100.		33.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	830.		33.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	2,000.		33.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:07	Florida A Cimino	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/12/2007 22:55	Florida A Cimino	5
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118305

TP-217(4.5-6) Grab Soil Sample
Troy, NY

Collected:08/01/2007 09:30 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

4T217 SDG#: TRY01-03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	13.5		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	N.D.		33.	ug/kg	1
01195	Pyrene	129-00-0	54.	J	33.	ug/kg	1
03761	Naphthalene	91-20-3	130.	J	33.	ug/kg	1
03765	Acenaphthylene	208-96-8	290.		33.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		33.	ug/kg	1
03775	Phenanthrene	85-01-8	38.	J	33.	ug/kg	1
03776	Anthracene	120-12-7	59.	J	33.	ug/kg	1
03778	Fluoranthene	206-44-0	37.	J	33.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	73.	J	33.	ug/kg	1
03782	Chrysene	218-01-9	57.	J	33.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	43.	J	33.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	N.D.		33.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	N.D.		33.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		33.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		33.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	69.	J	33.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:27	Florida A Cimino	1
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 5118306

DUP080107 Grab Soil Sample
Troy, NY

Collected:08/01/2007 by JHC

Account Number: 09286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

FD801 SDG#: TRY01-04FD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	14.6		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
07804	PAHs in Soil by GC/MS						
01191	Acenaphthene	83-32-9	120.	J	33.	ug/kg	1
01195	Pyrene	129-00-0	7,100.		170.	ug/kg	5
03761	Naphthalene	91-20-3	270.		33.	ug/kg	1
03765	Acenaphthylene	208-96-8	1,900.		33.	ug/kg	1
03768	Fluorene	86-73-7	330.		33.	ug/kg	1
03775	Phenanthrene	85-01-8	2,700.		33.	ug/kg	1
03776	Anthracene	120-12-7	1,600.		33.	ug/kg	1
03778	Fluoranthene	206-44-0	7,000.		170.	ug/kg	5
03781	Benzo(a)anthracene	56-55-3	5,600.		170.	ug/kg	5
03782	Chrysene	218-01-9	4,800.		170.	ug/kg	5
03786	Benzo(b)fluoranthene	205-99-2	7,000.		170.	ug/kg	5
03787	Benzo(k)fluoranthene	207-08-9	2,500.		33.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	4,600.		170.	ug/kg	5
03789	Indeno(1,2,3-cd)pyrene	193-39-5	2,700.		33.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	950.		33.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	2,700.		33.	ug/kg	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM20 2540 G	1	08/03/2007 16:37	Scott W Freisher	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/09/2007 22:48	Florida A Cimino	1
07804	PAHs in Soil by GC/MS	SW-846 8270C	1	08/12/2007 23:16	Florida A Cimino	5
07806	BNA Soil Extraction	SW-846 3550B	1	08/08/2007 16:25	JoElla L Rice	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 5118307

EB080107 Grab Water Sample
Troy, NY

Collected:08/01/2007 13:00 by JHC

Account Number: O9286

Submitted: 08/02/2007 09:25
Reported: 08/16/2007 at 13:39
Discard: 11/15/2007

Brown & Caldwell
110 Commerce Dr.
Allendale NJ 07401

EB801 SDG#: TRY01-05EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07805	PAHs in Water by GC/MS					
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07805	PAHs in Water by GC/MS	SW-846 8270C	1	08/03/2007 23:44	Gregory J Drahovsky	1
07807	BNA Water Extraction	SW-846 3510C	1	08/03/2007 14:00	Eric M Walker	1

0021

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Semivolatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance Summary

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CASE NARRATIVE

Client: Brown & Caldwell
SDG #: TRY01

LANCASTER LABORATORIES
SEMIVOLATILES BY GC/MS

SAMPLE NUMBER(S) :

LL #'s	Sample Code	Matrix Soil	Matrix Water	Comments
5118301	TP217	X		Unspiked
5118302	TP217MS	X		Matrix Spike
5118303	TP217MSD	X		Matrix Spike Dup
5118304	TP218	X		
5118304DL	TP218DL	X		5X Dilution
5118305	4T217	X		
5118306	FD801	X		
5118306DL	FD801DL	X		5X Dilution
5118307	EB801		X	Client Blank
LABORATORY SUBMITTED QC:				
SBLKWD215	SBLKWD2157		X	Method Blank
SBLKLC220	SBLKLC2203	X		Method Blank
SBLKLE226	SBLKLE2263	X		Method Blank
215WDLCS	215WDLCS7		X	Lab Control Sample
215WDLCSD	215WDLCSD7		X	Lab Control Sample Dup
220LCLCS	220LCLCS3	X		Lab Control Sample
226LELCS	226LELCS3	X		Lab Control Sample

SAMPLE PREPARATION:

No problems were encountered during the extraction of these samples.

Case Narrative (continued)
SDG: TRY01

ANALYSIS:

The method used for analysis was SW-846 8270C.

Sufficient sample volume was not available to perform a MS/MSD for the analysis of batch 07215WAD026. Therefore, a LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.

No problems were encountered during the analysis of these samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

All QC was within specifications.

DATA INTERPRETATION:

Only non-conformances for client requested compounds are addressed in this case narrative.

The % drift windows on the initial calibration verification summary are advisory until statistical windows can be derived.

No further interpretation is necessary for the data submitted.

Case Narrative Reviewed and Approved by:

Dana M. Kauffman
Manager, Data Deliverables

Date: 8-27-07

8825

GC/MS Semivolatiles CALCULATIONS:

1. Relative response factor (RRF)

$$RRF = \frac{AX}{Ais} \times \frac{Cis}{Cx}$$

Where:
Ax = Area of the characteristic ion for the compound to be measured
Ais = Area of the characteristic ion for the specific internal standard to be measured
Cis = Concentration of the internal standard
Cx = Concentration of the compound to be measured

2. % Relative Standard Deviation (%RPD)

$$\%RSD = \frac{\text{standard deviation}}{\text{mean}} \times 100$$

3. % Difference (%D)

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:
RRFc = Relative response factor from continuing calibration standar
RRFi = Mean relative response factor form the initial calibration

4. Concentration

$$\text{Concentration (ug/l)} = \frac{(Ax)\ (Is)\ (Df)\ (Vt)}{(Ais)\ (RRF)\ (Vo)\ (Vi)}$$

Where:
Ax, Ais, and RRF are as given in 1. above
Is = Amount of internal standard added in parts per billion (ng)
Df = Dilution factor
Vt = volume of the concentrated extract (ul)
Vo = volume of water extracted (ml)
Vi = volume of extract injected (ul)

5. % Recovery

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = Spiked sample result
SR = Sample result
SA = Spike added

GC/MS Semivolatiles CALCULATIONS (continued):

6. Relative Percent Difference (RPD)

$$RPD = \frac{|\ MSR - MSDR\ |}{(1/2)\ \ (MSR + MSDR)}$$

Where:
MSR = Matrix spike recovery
MSDR = Matrix spike duplicate recovery

QC Summary

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: TRY01

	LL #'s	EPA SAMPLE NO.	S1 (NBZ) #	S2 (TPH) #	S3 (FBP) #	TOT OUT
01	5118301	TP217	80	95	90	0
02	5118302	TP217MS	88	105	95	0
03	5118303	TP217MSD	88	109	99	0
04	5118304	TP218	99	82	80	0
05	5118304DL	TP218DL	100	78	82	0
06	5118305	4T217	102	96	87	0
07	5118306	FD801	104	104	89	0
08	5118306DL	FD801DL	107	99	91	0
09	SBLKLC220	SBLKLC2203	110	107	95	0
10	SBLKLE226	SBLKLE2263	77	96	88	0
11	220LCLCS	220LCLCS3	101	95	87	0
12	226LELCS	226LELCS3	80	99	89	0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(47-128)
S2 (TPH) = Terphenyl-d14	(49-134)
S3 (FBP) = 2-Fluorobiphenyl	(55-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: TRY01

	LL #'s	EPA SAMPLE NO.	S1 (NBZ) #	S2 (TPH) #	S3 (FBP) #	TOT OUT
01	5118307	EB801	82	96	90	0
02	SBLKWD215	SBLKWD2157	86	97	93	0
03	215WDLCS	215WDLCS7	90	102	96	0
04	215WDLCSD	215WDLCSD7	87	99	94	0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(51-123)
S2 (TPH) = Terphenyl-d14	(52-151)
S3 (FBP) = 2-Fluorobiphenyl	(63-118)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

SOIL GC/MS SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

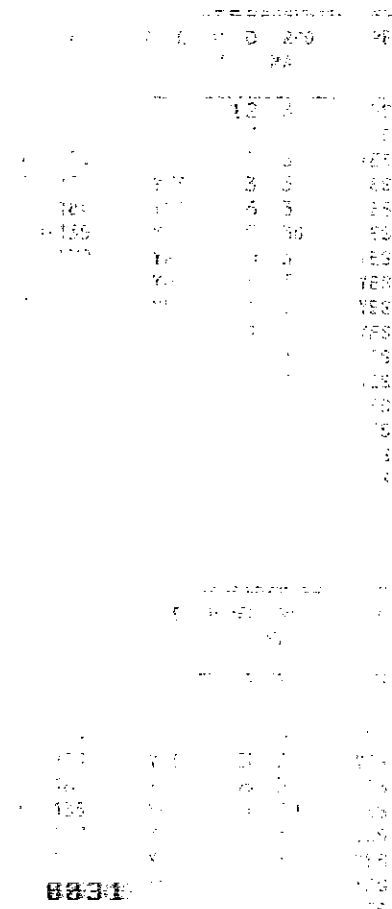
Lab Name: LANCASTER LABS Lab Code: LANCAS

UNSPIKED:ch0475.d	MATRIX SPIKE:ch0476.d	SPIKE DUPLICATE:ch0477.d
TP217 5118301	TP217MS 5118302	TP217MSD 5118303
AMT USED:30.0 g	AMT USED: 30.0 g	AMT USED: 30.0 g
FINAL VOL:1 ml	FINAL VOL: 1 ml	FINAL VOL: 1 ml

INSTRUMENT: HP10623 DILUTION FACTOR: 1 BATCH: 07226SLE026

%MOISTURE: 22 EXTRACT SPIKE LEVEL: 2136.75

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/KG	MS CONC UG/KG	MSD CONC UG/KG	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX	INSPE
Naphthalene	2136.75	2136.75	766.57	2452.23	2673.26	79	89	40-126	YES	12	30	YES
Acenaphthylene	2136.75	2136.75	374.12	2426.46	2491.00	96	99	45-144	YES	3	30	YES
Acenaphthene	2136.75	2136.75	ND	2005.27	2056.08	94	96	48-129	YES	2	30	YES
Fluorene	2136.75	2136.75	284.40	2124.30	2182.76	86	89	39-139	YES	3	30	YES
Phenanthrene	2136.75	2136.75	173.36	2129.74	2269.27	92	98	1-184	YES	6	30	YES
Anthracene	2136.75	2136.75	249.98	2171.25	2284.59	90	95	40-135	YES	5	30	YES
Fluoranthene	2136.75	2136.75	484.73	2136.42	2301.14	77	85	1-172	YES	10	30	YES
Pyrene	2136.75	2136.75	568.96	2563.50	2689.52	93	99	3-170	YES	6	30	YES
Benzo(a)anthracene	2136.75	2136.75	179.15	2116.67	2201.38	91	95	36-140	YES	4	30	YES
Chrysene	2136.75	2136.75	201.08	2104.54	2086.78	89	88	33-145	YES	1	30	YES
Benzo(b)fluoranthene	2136.75	2136.75	149.53	1952.08	2010.44	84	87	33-147	YES	4	30	YES
Benzo(k)fluoranthene	2136.75	2136.75	77.08	1938.19	2101.06	87	95	36-141	YES	9	30	YES
Benzo(a)pyrene	2136.75	2136.75	105.79	2094.28	2186.16	93	97	16-160	YES	4	30	YES
Indeno(1,2,3-cd)pyrene	2136.75	2136.75	65.33	1798.13	1869.49	81	84	27-145	YES	4	30	YES
Dibenz(a,h)anthracene	2136.75	2136.75	ND	1934.96	2041.35	91	96	36-151	YES	5	30	YES
Benzo(g,h,i)perylene	2136.75	2136.75	74.77	1802.17	1873.23	81	84	26-148	YES	4	30	YES



COMMENTS: _____

Lancaster Laboratories, Inc.
Semi Volatiles Laboratory Control Sample Recoveries

LCS: gh0158.d
215WDLCS7 215WDLCS
Method: SW-846 8270C
Instrument: HP11165

LCS Duplicate: gh0159.d
215WDLCSD7 215WDLCSD
Matrix/Level: W/L
Dilution Factor: 1.0

Batch: 07215WAD026

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCSD CONC UG/L	LCS REC %	LCSD REC %	Range LOWER-UPPER	REC INSPEC	RPD %	RPD MAX	RPD INSPEC
Naphthalene	50.00	47.77	45.83	96	92	68-108	YES	4	30	YES
Acenaphthylene	50.00	48.25	47.34	97	95	67-123	YES	2	30	YES
Acenaphthene	50.00	48.87	47.47	98	95	68-111	YES	3	30	YES
Fluorene	50.00	50.19	48.91	100	98	72-119	YES	3	30	YES
Phenanthrene	50.00	48.55	47.61	97	95	68-111	YES	2	30	YES
Anthracene	50.00	48.08	46.92	96	94	68-108	YES	2	30	YES
Fluoranthene	50.00	49.03	47.71	98	95	66-112	YES	3	30	YES
Pyrene	50.00	50.07	47.86	100	96	68-116	YES	5	30	YES
Benzo(a)anthracene	50.00	47.06	45.60	94	91	70-114	YES	3	30	YES
Chrysene	50.00	49.80	48.68	100	97	70-111	YES	2	30	YES
Benzo(b)fluoranthene	50.00	52.34	50.95	105	102	65-124	YES	3	30	YES
Benzo(k)fluoranthene	50.00	57.62	56.84	115	114	67-124	YES	1	30	YES
Benzo(a)pyrene	50.00	57.28	56.19	115	112	68-121	YES	2	30	YES
Indeno(1,2,3-cd)pyrene	50.00	54.49	53.49	109	107	61-124	YES	2	30	YES
Dibenz(a,h)anthracene	50.00	58.74	57.46	117	115	70-131	YES	2	30	YES
Benzo(g,h,i)perylene	50.00	57.66	56.22	115	112	67-126	YES	3	30	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

Lancaster Laboratories, Inc.
SOIL Semi Volatile Laboratory Control Sample Recovery

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0293.d

LCS SAMPLE NO: 220LCLCS BATCH: 07220SLC026 Sample Code: 220LCLCS3

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/Kg	QCREF REC %	RANGE LOWER-UPPER	INSPEC
Naphthalene	1666.67	1365.05	82	69 - 105	YES
2-Methylnaphthalene	1666.67	1365.42	82	67 - 101	YES
Acenaphthylene	1666.67	1472.15	88	73 - 114	YES
Acenaphthene	1666.67	1456.21	87	74 - 110	YES
Fluorene	1666.67	1372.55	82	66 - 115	YES
Phenanthrene	1666.67	1508.56	91	70 - 107	YES
Anthracene	1666.67	1502.46	90	69 - 109	YES
Fluoranthene	1666.67	1324.17	79	66 - 109	YES
Pyrene	1666.67	1626.24	98	67 - 116	YES
Benzo(a)anthracene	1666.67	1467.97	88	72 - 112	YES
Chrysene	1666.67	1513.10	91	71 - 112	YES
Benzo(b)fluoranthene	1666.67	1538.73	92	66 - 123	YES
Benzo(k)fluoranthene	1666.67	1458.29	87	67 - 122	YES
Benzo(a)pyrene	1666.67	1527.20	92	69 - 119	YES
Indeno(1,2,3-cd)pyrene	1666.67	1423.69	85	59 - 122	YES
Dibenz(a,h)anthracene	1666.67	1470.26	88	70 - 130	YES
Benzo(g,h,i)perylene	1666.67	1438.47	86	63 - 124	YES

NC = Could not calculate

Comments: _____

8833

Lancaster Laboratories, Inc.
SOIL Semi Volatile Laboratory Control Sample Recovery

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0474.d

LCS SAMPLE NO: 226LELCS BATCH: 07226SLE026 Sample Code: 226LELCS3

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/Kg	QCREF REC %	RANGE LOWER-UPPER	INSPEC
Naphthalene	1666.67	1392.65	84	69 - 105	YES
Acenaphthylene	1666.67	1615.03	97	73 - 114	YES
Acenaphthene	1666.67	1485.16	89	74 - 110	YES
Fluorene	1666.67	1506.18	90	66 - 115	YES
Phenanthrene	1666.67	1543.38	93	70 - 107	YES
Anthracene	1666.67	1510.39	91	69 - 109	YES
Fluoranthene	1666.67	1450.38	87	66 - 109	YES
Pyrene	1666.67	1648.78	99	67 - 116	YES
Benzo(a)anthracene	1666.67	1460.44	88	72 - 112	YES
Chrysene	1666.67	1496.07	90	71 - 112	YES
Benzo(b)fluoranthene	1666.67	1321.86	79	66 - 123	YES
Benzo(k)fluoranthene	1666.67	1648.85	99	67 - 122	YES
Benzo(a)pyrene	1666.67	1496.18	90	69 - 119	YES
Indeno(1,2,3-cd)pyrene	1666.67	1302.87	78	59 - 122	YES
Dibenz(a,h)anthracene	1666.67	1418.49	85	70 - 130	YES
Benzo(g,h,i)perylene	1666.67	1318.72	79	63 - 124	YES

NC = Could not calculate

Comments: _____

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLKWD2157

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gh0157.d Lab Sample ID: SBLKWD215

Date Extracted: 08/03/07 Extraction: Sepf

Date Analyzed: 08/03/07 Time Analyzed: 22:30

Matrix (soil/water): WATER Level: (low/med) LOW

Instrument ID: HP11165

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	215WDLCS7	215WDLCS	gh0158.d	08/03/07
02	215WDLCSD7	215WDLCSD	gh0159.d	08/03/07
03	EB801	5118307	gh0160.d	08/03/07

COMMENTS:

0035

4B

EPA SAMPLE NO.

SBLKLC2203

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0292.d Lab Sample ID: SBLKLC220

Date Extracted: 08/08/07 Extraction: Sonc

Date Analyzed: 08/09/07 Time Analyzed: 17:58

Matrix (soil/water): SOIL Level: (low/med) LOW

Instrument ID: HP10623

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	220LCLCS3	220LCLCS	ch0293.d	08/09/07
02	TP217	5118301	ch0301.d	08/09/07
03	TP217MS	5118302	ch0302.d	08/09/07
04	TP217MSD	5118303	ch0303.d	08/09/07
05	TP218	5118304	ch0304.d	08/09/07
06	4T217	5118305	ch0305.d	08/09/07
07	FD801	5118306	ch0306.d	08/09/07
08	769S1	5119935	ch0307.d	08/09/07
09	769S2	5119936	ch0308.d	08/09/07
10	769S6	5119937	ch0309.d	08/09/07
11	TP218DL	5118304DL	ch0348.d	08/12/07
12	FD801DL	5118306DL	ch0349.d	08/12/07

COMMENTS:

0836

4B

EPA SAMPLE NO.

SBLKLE2263

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0473.d Lab Sample ID: SBLKLE226

Date Extracted: 08/15/07 Extraction: Sonc

Date Analyzed: 08/15/07 Time Analyzed: 21:11

Matrix (soil/water): SOIL Level: (low/med) LOW

Instrument ID: HP10623

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	226LELCS3	226LELCS	ch0474.d	08/15/07
02	TP217	5118301	ch0475.d	08/16/07
03	TP217MS	5118302	ch0476.d	08/16/07
04	TP217MSD	5118303	ch0477.d	08/16/07

COMMENTS:

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0100y.d DFTPP Injection Date: 08/05/07

Instrument ID: HP10623 DFTPP Injection Time: 06:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	54.9
68	Less than 2.0% of mass 69	1.07 (1.93)1
69	Mass 69 relative abundance	55.2
70	Less than 2.0% of mass 69	0.2 (0.36)1
127	40.0 - 60.0% of mass 198	55.6
197	Less than 1.0% of mass 198	0.88
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.22
275	10.0 - 30.0% of mass 198	25.6
365	Greater than 1.00% of mass 198	3.1
441	Present, and less than mass 443	8.59
442	Greater than 40.0 % of mass 198	68.8
443	17.0 - 23.0% of mass 442	11.9 (17.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	STD2057	ch0101a.d	08/05/07	06:33
02	SSTD080	STD2057	ch0102.d	08/05/07	06:53
03	SSTD120	STD2057	ch0103.d	08/05/07	07:14
04	SSTD030	STD2057	ch0104.d	08/05/07	07:34
05	SSTD015	STD2057	ch0105.d	08/05/07	07:54
06	SSTD005	STD2057	ch0106.d	08/05/07	08:15
07	SSTD001	8270MDL2057	ch0107.d	08/05/07	08:35
08	SSTD050	8270ICV2057	ch0108.d	08/05/07	08:55
09	SSTD050	BAS1717	ch0109.d	08/05/07	09:16
10	SSTD080	BAS1717	ch0110.d	08/05/07	09:36
11	SSTD120	BAS1717	ch0111.d	08/05/07	09:56
12	SSTD030	BAS1717	ch0112.d	08/05/07	10:16
13	SSTD015	BAS1717	ch0113.d	08/05/07	10:37
14	SSTD005	BAS1717	ch0114.d	08/05/07	10:57
15	SSTD001	BASMDL1717	ch0115.d	08/05/07	11:17

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0290x.d DFTPP Injection Date: 08/09/07

Instrument ID: HP10623 DFTPP Injection Time: 17:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.9
68	Less than 2.0% of mass 69	1.08 (1.77)1
69	Mass 69 relative abundance	61.0
70	Less than 2.0% of mass 69	0.06 (0.11)1
127	40.0 - 60.0% of mass 198	59.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.86
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.00% of mass 198	2.87
441	Present, and less than mass 443	6.79
442	Greater than 40.0 % of mass 198	43.6
443	17.0 - 23.0% of mass 442	8.41 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD030	STD2057	ch0291.d	08/09/07	17:23
02	SBLKLC2203	SBLKLC220	ch0292.d	08/09/07	17:58
03	220LCLCS3	220LCLCS	ch0293.d	08/09/07	18:19
04	TP218	5118304	ch0304.d	08/09/07	22:07
05	4T217	5118305	ch0305.d	08/09/07	22:27
06	FD801	5118306	ch0306.d	08/09/07	22:48
07	769S1	5119935	ch0307.d	08/09/07	23:09
08	769S2	5119936	ch0308.d	08/09/07	23:30
09	769S6	5119937	ch0309.d	08/09/07	23:51
10	42-07DL	5117959DL	ch0310.d	08/10/07	00:12
11	SBLKLB2213	SBLKLB221	ch0311.d	08/10/07	00:33
12	221LBLCS3	221LBLCS	ch0312.d	08/10/07	00:54
13	P-SW2	5123777	ch0313.d	08/10/07	01:15
14	P-SW3	5123778	ch0314.d	08/10/07	01:36
15	P-SW4	5123779	ch0315.d	08/10/07	01:57

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0290x.d DFTPP Injection Date: 08/09/07

Instrument ID: HP10623 DFTPP Injection Time: 17:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.9
68	Less than 2.0% of mass 69	1.08 (1.77)1
69	Mass 69 relative abundance	61.0
70	Less than 2.0% of mass 69	0.06 (0.11)1
127	40.0 - 60.0% of mass 198	59.0
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.86
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.00% of mass 198	2.87
441	Present, and less than mass 443	6.79
442	Greater than 40.0 % of mass 198	43.6
443	17.0 - 23.0% of mass 442	8.41 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
16	ESW11	5122677	ch0316.d	08/10/07	02:18
17	SB212RE	5113430RE	ch0317.d	08/10/07	02:38
18	239S2	5123706	ch0318.d	08/10/07	03:00
19	239S2MS	5123707	ch0319.d	08/10/07	03:20
20	ESW11RE	5122677RE	ch031a.d	08/10/07	03:41
21	239S2MSD	5123708	ch0320.d	08/10/07	04:02
22	BFF03	5122137	ch0321.d	08/10/07	04:23
23	BFF09	5122138	ch0322.d	08/10/07	04:44
24	BFF08	5122139	ch0323.d	08/10/07	05:05

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0330z.d DFTPP Injection Date: 08/12/07

Instrument ID: HP10623 DFTPP Injection Time: 16:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.1
68	Less than 2.0% of mass 69	0.72 (1.13)1
69	Mass 69 relative abundance	63.5
70	Less than 2.0% of mass 69	0.78 (1.22)1
127	40.0 - 60.0% of mass 198	59.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.19
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.00% of mass 198	1.89
441	Present, and less than mass 443	7.15
442	Greater than 40.0 % of mass 198	42.9
443	17.0 - 23.0% of mass 442	8.19 (19.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	STD2057	ch0331.d	08/12/07	16:52
02	SBLKLC2213	SBLKLC221	ch0332.d	08/12/07	17:24
03	221LCLCS3	221LCLCS	ch0333.d	08/12/07	17:45
04	SBLKLD2223	SBLKLD222	ch0334.d	08/12/07	18:05
05	222LDLCS3	222LDLCS	ch0335.d	08/12/07	18:26
06	FLNE-	5122885	ch0336.d	08/12/07	18:47
07	FLE--	5122886	ch0337.d	08/12/07	19:08
08	FLS--	5122887	ch0338.d	08/12/07	19:28
09	FLW--	5122888	ch0339.d	08/12/07	19:48
10	FLN--	5122889	ch0340.d	08/12/07	20:09
11	-PP--	5122890	ch0341.d	08/12/07	20:30
12	NPT-1	5123814	ch0342.d	08/12/07	20:51
13	NPT-2	5123815	ch0343.d	08/12/07	21:12
14	NPT-3	5123816	ch0344.d	08/12/07	21:32
15	NPT-4	5123817	ch0345.d	08/12/07	21:53
16	NPT-5	5123818	ch0346.d	08/12/07	22:13
17	NPT-6	5123819	ch0347.d	08/12/07	22:34
18	TP218DL	5118304DL	ch0348.d	08/12/07	22:55

8841

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0330z.d DFTPP Injection Date: 08/12/07

Instrument ID: HP10623 DFTPP Injection Time: 16:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.1
68	Less than 2.0% of mass 69	0.72 (1.13)1
69	Mass 69 relative abundance	63.5
70	Less than 2.0% of mass 69	0.78 (1.22)1
127	40.0 - 60.0% of mass 198	59.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.19
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.00% of mass 198	1.89
441	Present, and less than mass 443	7.15
442	Greater than 40.0 % of mass 198	42.9
443	17.0 - 23.0% of mass 442	8.19 (19.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	FD801DL	5118306DL	ch0349.d	08/12/07	23:16
20	BFF07	5122140	ch0350.d	08/12/07	23:37
21	BFF11	5122141	ch0351.d	08/12/07	23:58
22	BFF12	5122142	ch0352.d	08/13/07	00:18
23	BFF02	5122143	ch0353.d	08/13/07	00:39
24	BFF10	5122144	ch0354.d	08/13/07	01:00

0842

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0370y.d DFTPP Injection Date: 08/14/07

Instrument ID: HP10623 DFTPP Injection Time: 00:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.0
68	Less than 2.0% of mass 69	0.81 (2.0)1
69	Mass 69 relative abundance	40.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	51.1
197	Less than 1.0% of mass 198	0.45
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.68
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.00% of mass 198	3.5
441	Present, and less than mass 443	10.2
442	Greater than 40.0 % of mass 198	66.9
443	17.0 - 23.0% of mass 442	13.1 (19.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	STD2187	ch0371a.d	08/14/07	00:49
02	SSTD120	STD2187	ch0372.d	08/14/07	01:14
03	SSTD050	STD2187	ch0373.d	08/14/07	01:35
04	SSTD030	STD2187	ch0374.d	08/14/07	01:56
05	SSTD015	STD2187	ch0375.d	08/14/07	02:17
06	SSTD005	STD2187	ch0376.d	08/14/07	02:38
07	SSTD001	8270MDL2187	ch0377.d	08/14/07	02:59
08	SSTD050	ICV1387	ch0378.d	08/14/07	03:19
09	SBLKLE2223	SBLKLE222	ch0379.d	08/14/07	03:41
10	222LELCS3	222LELCS	ch0380.d	08/14/07	04:02
11	SBLKLD2233	SBLKLD223	ch0381.d	08/14/07	04:23
12	223LDLCS3	223LDLCS	ch0382.d	08/14/07	04:44

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0470.d DFTPP Injection Date: 08/15/07

Instrument ID: HP10623 DFTPP Injection Time: 19:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.5
68	Less than 2.0% of mass 69	0.5 (1.18)1
69	Mass 69 relative abundance	42.0
70	Less than 2.0% of mass 69	0.23 (0.55)1
127	40.0 - 60.0% of mass 198	53.9
197	Less than 1.0% of mass 198	0.32
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.63
275	10.0 - 30.0% of mass 198	25.7
365	Greater than 1.00% of mass 198	3.56
441	Present, and less than mass 443	10.6
442	Greater than 40.0 % of mass 198	67.8
443	17.0 - 23.0% of mass 442	13.1 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD030	STD2187	ch0471.d	08/15/07	20:08
02	SBLKLE2263	SBLKLE226	ch0473.d	08/15/07	21:11
03	226LELCS3	226LELCS	ch0474.d	08/15/07	21:32
04	SBLKLG2263	SBLKLG226	ch0478.d	08/15/07	21:52
05	226LGLCS3	226LGLCS	ch0479.d	08/15/07	22:13
06	SBLKWI2263	SBLKWI226	ch0486.d	08/15/07	22:34
07	226WILCS3	226WILCS	ch0487.d	08/15/07	22:55
08	226WILCSD3	226WILCSD	ch0488.d	08/15/07	23:16
09	SBLKLA2253	SBLKLA225	ch0491.d	08/15/07	23:36
10	225LALCS3	225LALCS	ch0492.d	08/15/07	23:57
11	TP217	5118301	ch0475.d	08/16/07	00:18
12	TP217MS	5118302	ch0476.d	08/16/07	00:39
13	TP217MSD	5118303	ch0477.d	08/16/07	01:00
14	13LNE	5127108	ch0480.d	08/16/07	01:21
15	13FLE	5127109	ch0481.d	08/16/07	01:42
16	13FLS	5127110	ch0482.d	08/16/07	02:03
17	13FLW	5127111	ch0483.d	08/16/07	02:24
18	13FLN	5127112	ch0484.d	08/16/07	02:45

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ch0470.d DFTPP Injection Date: 08/15/07

Instrument ID: HP10623 DFTPP Injection Time: 19:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.5
68	Less than 2.0% of mass 69	0.5 (1.18)1
69	Mass 69 relative abundance	42.0
70	Less than 2.0% of mass 69	0.23 (0.55)1
127	40.0 - 60.0% of mass 198	53.9
197	Less than 1.0% of mass 198	0.32
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.63
275	10.0 - 30.0% of mass 198	25.7
365	Greater than 1.00% of mass 198	3.56
441	Present, and less than mass 443	10.6
442	Greater than 40.0 % of mass 198	67.8
443	17.0 - 23.0% of mass 442	13.1 (19.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	13-PP	5127113	ch0485.d	08/16/07	03:06
20	INF14	5127165	ch0489.d	08/16/07	03:27
21	EFF14	5127167	ch0490.d	08/16/07	03:48
22	GP1-A	5124754	ch0493.d	08/16/07	04:09
23	GP1-AMS	5124754	ch0494.d	08/16/07	04:29
24	GP1-AMSD	5124754	ch0495.d	08/16/07	04:50
25	GP1-B	5124755	ch0496.d	08/16/07	05:11
26	GP2-A	5124756	ch0497.d	08/16/07	05:32
27	GP2-B	5124757	ch0498.d	08/16/07	05:53
28	GP3-A	5124758	ch0499.d	08/16/07	06:14
29	GP3-B	5124759	ch0500.d	08/16/07	06:35
30	GP4-A	5124760	ch0501.d	08/16/07	06:56
31	GP4-B	5124761	ch0502.d	08/16/07	07:16
32	2SB50	5124404	ch0503.d	08/16/07	07:37

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gg1180.d DFTPP Injection Date: 07/30/07

Instrument ID: HP11165 DFTPP Injection Time: 19:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.8
68	Less than 2.0% of mass 69	0.74 (1.65)1
69	Mass 69 relative abundance	44.8
70	Less than 2.0% of mass 69	0.14 (0.31)1
127	40.0 - 60.0% of mass 198	48.5
197	Less than 1.0% of mass 198	0.44
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.43
275	10.0 - 30.0% of mass 198	21.1
365	Greater than 1.00% of mass 198	2.82
441	Present, and less than mass 443	9.0
442	Greater than 40.0 % of mass 198	58.8
443	17.0 - 23.0% of mass 442	10.4 (17.6)2

1-Value is % mass 69

2-Value is % mass of 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD030	STD2057	gg118a.d	07/30/07	20:11
02	SSTD120	STD2057	gg118b.d	07/30/07	20:40
03	SSTD080	STD2057	gg118c.d	07/30/07	21:04
04	SSTD050	STD2057	gg118d.d	07/30/07	21:29
05	SSTD015	STD2057	gg118e.d	07/30/07	21:53
06	SSTD005	STD2057	gg118f.d	07/30/07	22:18
07	SSTD001	8270MDL2057	gg118g.d	07/30/07	22:42
08	SSTD050	ICV1387	gg118h.d	07/30/07	23:07
09	SBLKWA2097	SBLKWA209	gg1182.d	07/30/07	23:31
10	209WALCS7	209WALCS	gg1183.d	07/30/07	23:56
11	SBLKWB2097	SBLKWB209	gg1184.d	07/31/07	00:21
12	209WBLCS7	209WBLCS	gg1185.d	07/31/07	00:45
13	209WBLCSD7	209WBLCSD	gg1186.d	07/31/07	01:10
14	SBLKWF2087	SBLKWF208	gg1187.d	07/31/07	01:35
15	208WFLCS7	208WFLCS	gg1188.d	07/31/07	01:59
16	208WFLCSD7	208WFLCSD	gg1189.d	07/31/07	02:24
17	27001	5112848	gg1190.d	07/31/07	02:48
18	ROYW1	5113080	gg1191.d	07/31/07	03:13

0046

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gg1180.d DFTPP Injection Date: 07/30/07

Instrument ID: HP11165 DFTPP Injection Time: 19:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.8
68	Less than 2.0% of mass 69	0.74 (1.65)1
69	Mass 69 relative abundance	44.8
70	Less than 2.0% of mass 69	0.14 (0.31)1
127	40.0 - 60.0% of mass 198	48.5
197	Less than 1.0% of mass 198	0.44
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.43
275	10.0 - 30.0% of mass 198	21.1
365	Greater than 1.00% of mass 198	2.82
441	Present, and less than mass 443	9.0
442	Greater than 40.0 % of mass 198	58.8
443	17.0 - 23.0% of mass 442	10.4 (17.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	ROYW2	5113081	gg1192.d	07/31/07	03:37
20	ROY2D	5113082	gg1193.d	07/31/07	04:02
21	W111A	5113952	gg1194.d	07/31/07	04:27
22	W111B	5113953	gg1195.d	07/31/07	04:51
23	W111C	5113954	gg1196.d	07/31/07	05:16
24	W111D	5113955	gg1197.d	07/31/07	05:40
25	BLANK	5113956	gg1198.d	07/31/07	06:04

0047

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gh0150.d DFTPP Injection Date: 08/03/07

Instrument ID: HP11165 DFTPP Injection Time: 19:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.86 (1.99)1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.19
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.86
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.00% of mass 198	2.4
441	Present, and less than mass 443	7.69
442	Greater than 40.0 % of mass 198	52.1
443	17.0 - 23.0% of mass 442	9.7 (18.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD080	STD2057	gh0151.d	08/03/07	19:56
02	SBLKWA2147	SBLKWA214	gh0152.d	08/03/07	20:27
03	214WALCS7	214WALCS	gh0153.d	08/03/07	20:51
04	214WALCSD7	214WALCSD	gh0154.d	08/03/07	21:16
05	SBLKLF2147	SBLKLF214	gh0155.d	08/03/07	21:40
06	214LFLCS7	214LFLCS	gh0156.d	08/03/07	22:05
07	SBLKWD2157	SBLKWD215	gh0157.d	08/03/07	22:30
08	215WDLCS7	215WDLCS	gh0158.d	08/03/07	22:54
09	215WDLCSD7	215WDLCSD	gh0159.d	08/03/07	23:19
10	EB801	5118307	gh0160.d	08/03/07	23:44
11	31LNE	5116905	gh0161.d	08/04/07	00:08
12	31FLE	5116906	gh0162.d	08/04/07	00:33
13	31FLS	5116907	gh0163.d	08/04/07	00:58
14	31FLW	5116908	gh0164.d	08/04/07	01:22
15	31FLN	5116909	gh0165.d	08/04/07	01:47
16	31-PP	5116910	gh0166.d	08/04/07	02:11
17	1307X	5116597	gh0167.d	08/04/07	02:36
18	F731-	5116598	gh0168.d	08/04/07	03:00

0648

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: gh0150.d DFTPP Injection Date: 08/03/07

Instrument ID: HP11165 DFTPP Injection Time: 19:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.86 (1.99) 1
69	Mass 69 relative abundance	43.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.19
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.86
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.00% of mass 198	2.4
441	Present, and less than mass 443	7.69
442	Greater than 40.0 % of mass 198	52.1
443	17.0 - 23.0% of mass 442	9.7 (18.6) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19	D731-	5116600	gh0169.d	08/04/07	03:25
20	04514	5117454	gh0170.d	08/04/07	03:49
21	20014	5117455	gh0171.d	08/04/07	04:14
22	40014	5117456	gh0172.d	08/04/07	04:38
23	PONDO	5117680	gh0173.d	08/04/07	05:03
24	SG215RE	5112323RE	gh0174.d	08/04/07	05:27
25	SG208RE	5112324RE	gh0175.d	08/04/07	05:52
26	SG108RE	5112325RE	gh0176.d	08/04/07	06:16
27	B1---RE	5113715RE	gh0177.d	08/04/07	06:41

8843

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0291.d Date Analyzed: 08/09/07

Instrument ID: HP10623 Time Analyzed: 17:23

		IS1(DCB)			IS2(NPT)			IS3(ANT)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	97089		4.715		450360		5.846		262519		7.316	
	UPPER LIMIT	194178		5.215		900720		6.346		525038		7.816	
	LOWER LIMIT	48545		4.215		225180		5.346		131260		6.816	
	EPA SAMPLE NO.												
01	SBLKLC2203	78670		4.715		335881		5.846		198853		7.316	
02	220LCLCS3	76489		4.715		329993		5.846		201701		7.316	
03	TP218	92688		4.715		416808		5.840		242763		7.316	
04	4T217	77726		4.715		348046		5.846		203090		7.316	
05	FD801	82559		4.715		366836		5.846		218750		7.316	
06	769S1	81146		4.715		367155		5.846		214460		7.316	
07	769S2	78608		4.715		355561		5.846		212992		7.316	
08	769S6	69081		4.715		311809		5.846		182655		7.316	
09	42-07DL	68278		4.715		296743		5.846		175315		7.316	
10	SBLKLB2213	81991		4.715		346519		5.846		201429		7.316	
11	221LBLCS3	82697		4.715		365363		5.846		217817		7.316	
12	P-SW2	82115		4.715		355468		5.846		200607		7.316	
13	P-SW3	81964		4.721		355956		5.846		214416		7.316	
14	P-SW4	84794		4.721		373572		5.846		227156		7.316	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0291.d Date Analyzed: 08/09/07

Instrument ID: HP10623 Time Analyzed: 17:23

		IS1(DCB)			IS2(NPT)			IS3(ANT)		
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	97089		4.715		450360		5.846		262519		7.316	
	UPPER LIMIT	194178		5.215		900720		6.346		525038		7.816	
	LOWER LIMIT	48545		4.215		225180		5.346		131260		6.816	
	EPA SAMPLE NO.												
15	ESW11	76691		4.715		290257		5.852		170841		7.340	
16	SB212RE	80478		4.721		328339		5.852		201351		7.322	
17	239S2	80118		4.715		337318		5.846		191499		7.316	
18	239S2MS	77536		4.715		331738		5.846		179006		7.316	
19	ESW11RE	76380		4.721		288794		5.852		179788		7.340	
20	239S2MSD	81098		4.715		352233		5.846		197226		7.316	
21	BFF03	77868		4.721		329113		5.846		184890		7.322	
22	BFF09	82521		4.721		341844		5.846		195002		7.322	
23	BFF08	79475		4.721		334477		5.852		189705		7.322	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0291.d Date Analyzed: 08/09/07

Instrument ID: HP10623 Time Analyzed: 17:23

	IS4(PHN)		IS5(CRY)		IS6(PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	460008	8.533	390051	10.685	322417	11.823
UPPER LIMIT	920016	9.033	780102	11.185	644834	12.323
LOWER LIMIT	230004	8.033	195026	10.185	161209	11.323
EPA SAMPLE NO.						
01 SBLKLC2203	366892	8.527	303457	10.685	234297	11.823
02 220LCLCS3	350482	8.527	290778	10.685	224538	11.823
03 TP218	408635	8.533	299332	10.691	270356	11.835
04 4T217	345654	8.527	272078	10.691	224731	11.829
05 FD801	367295	8.527	268230	10.697	236088	11.835
06 769S1	355565	8.533	276579	10.685	227476	11.829
07 769S2	360264	8.527	269114	10.685	219666	11.829
08 769S6	316605	8.527	246296	10.685	212705	11.823
09 42-07DL	300999	8.527	248836	10.691	214050	11.829
10 SBLKLB2213	341956	8.527	282054	10.685	229012	11.829
11 221LBLCS3	362220	8.533	281633	10.691	229006	11.829
12 P-SW2	348041	8.527	265718	10.685	222855	11.829
13 P-SW3	356505	8.527	272855	10.685	225684	11.829
14 P-SW4	368661	8.527	281835	10.685	227870	11.829

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0291.d Date Analyzed: 08/09/07

Instrument ID: HP10623 Time Analyzed: 17:23

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	460008		8.533		390051		10.685		322417		11.823	
	UPPER LIMIT	920016		9.033		780102		11.185		644834		12.323	
	LOWER LIMIT	230004		8.033		195026		10.185		161209		11.323	
	EPA SAMPLE NO.												
15	ESW11	217664	*	8.570		279284		10.704		239372		11.829	
16	SB212RE	352047		8.533		280825		10.685		227171		11.829	
17	239S2	318612		8.527		257272		10.691		169624		11.829	
18	239S2MS	309848		8.533		244688		10.691		157181	*	11.829	
19	ESW11RE	225998	*	8.570		270337		10.704		237038		11.835	
20	239S2MSD	331062		8.533		267687		10.691		185861		11.835	
21	BFF03	319880		8.533		275085		10.691		236032		11.835	
22	BFF09	331985		8.533		277967		10.691		234925		11.835	
23	BFF08	325983		8.539		264535		10.710		220221		11.866	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0331.d Date Analyzed: 08/12/07

Instrument ID: HP10623 Time Analyzed: 16:52

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	80549	4.690	357873	5.822	220471	7.297
	UPPER LIMIT	161098	5.190	715746	6.322	440942	7.797
	LOWER LIMIT	40275	4.190	178937	5.322	110236	6.797
	EPA SAMPLE NO.						
01	SBLKLC2213	66597	4.690	286970	5.822	169839	7.291
02	221LCLCS3	66963	4.690	287328	5.822	174850	7.291
03	SBLKLD2223	64121	4.690	272139	5.822	168092	7.291
04	222LDLCS3	71893	4.690	304569	5.822	189156	7.291
05	FLNE-	68463	4.690	289975	5.822	179308	7.291
06	FLE--	65149	4.690	279688	5.822	172651	7.291
07	FLS--	63556	4.690	273506	5.821	170236	7.291
08	FLW--	67527	4.690	289610	5.822	178664	7.291
09	FLN--	69363	4.690	304220	5.822	185868	7.291
10	-PP--	68520	4.690	292553	5.822	181597	7.291
11	NPT-1	75664	4.690	322601	5.822	197632	7.291
12	NPT-2	66733	4.690	290015	5.821	176822	7.291
13	NPT-3	73363	4.690	316795	5.822	197991	7.291
14	NPT-4	73466	4.690	316142	5.822	192988	7.291
15	NPT-5	71839	4.690	301419	5.821	187369	7.291
16	NPT-6	65997	4.690	278266	5.822	171292	7.291
17	TP218DL	69600	4.690	302328	5.821	178665	7.291

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0331.d Date Analyzed: 08/12/07

Instrument ID: HP10623 Time Analyzed: 16:52

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	80549	4.690	357873	5.822	220471	7.297
	UPPER LIMIT	161098	5.190	715746	6.322	440942	7.797
	LOWER LIMIT	40275	4.190	178937	5.322	110236	6.797
	EPA SAMPLE NO.						
18	FD801DL	68344	4.690	297133	5.822	182199	7.291
19	BFF07	80075	4.690	358321	5.822	216246	7.291
20	BFF11	87804	4.690	391597	5.822	238155	7.291
21	BFF12	84876	4.690	369224	5.822	220019	7.291
22	BFF02	84331	4.690	355635	5.822	202254	7.291
23	BFF10	75918	4.690	331121	5.821	198073	7.291

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

8055

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0331.d Date Analyzed: 08/12/07

Instrument ID: HP10623 Time Analyzed: 16:52

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	396307	8.509	323131	10.667	272426	11.798
	UPPER LIMIT	792614	9.009	646262	11.167	544852	12.298
	LOWER LIMIT	198154	8.009	161566	10.167	136213	11.298
	EPA SAMPLE NO.						
01	SBLKLC2213	311925	8.502	251441	10.660	202413	11.792
02	221LCLCS3	316001	8.509	249333	10.661	196052	11.792
03	SBLKLD2223	310533	8.502	263233	10.654	207560	11.792
04	222LDLCS3	345099	8.502	281309	10.661	216347	11.792
05	FLNE-	337070	8.502	289907	10.654	229594	11.792
06	FLE--	312407	8.502	265774	10.654	210344	11.792
07	FLS--	314939	8.502	268203	10.654	217611	11.792
08	FLW--	318755	8.503	267572	10.655	215310	11.792
09	FLN--	336420	8.502	273606	10.655	215200	11.792
10	-PP--	342671	8.502	274416	10.654	221694	11.792
11	NPT-1	365612	8.503	301959	10.655	235869	11.792
12	NPT-2	327732	8.502	281219	10.654	224695	11.786
13	NPT-3	370230	8.502	303650	10.654	241195	11.786
14	NPT-4	364586	8.503	299924	10.655	236570	11.786
15	NPT-5	345279	8.502	293327	10.654	234701	11.786
16	NPT-6	315098	8.502	263840	10.654	209204	11.786
17	TP218DL	316519	8.502	247516	10.654	214123	11.786

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

0856

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0331.d Date Analyzed: 08/12/07

Instrument ID: HP10623 Time Analyzed: 16:52

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	396307	8.509	323131	10.667	272426	11.798
	UPPER LIMIT	792614	9.009	646262	11.167	544852	12.298
	LOWER LIMIT	198154	8.009	161566	10.167	136213	11.298
	EPA SAMPLE NO.						
18	FD801DL	320570	8.502	259635	10.654	220661	11.792
19	BFF07	371944	8.502	271746	10.654	213125	11.786
20	BFF11	390400	8.502	267014	10.654	210334	11.786
21	BFF12	368709	8.502	257012	10.655	203355	11.792
22	BFF02	335377	8.502	244024	10.661	210931	11.798
23	BFF10	347741	8.502	269087	10.654	207047	11.792

IS4 (PHN) = Phenanthrene-d10

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

0057

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard) : ch0471.d Date Analyzed: 08/15/07

Instrument ID: HP10623 Time Analyzed: 20:08

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	113004		4.584		501145		5.715		309645		7.185	
	UPPER LIMIT	226008		5.084		1002290		6.215		619290		7.685	
	LOWER LIMIT	56502		4.084		250573		5.215		154823		6.685	
	EPA SAMPLE NO.												
01	SBLKLE2263	104866		4.578		445892		5.715		270502		7.185	
02	226LELCS3	120537		4.584		537136		5.716		334637		7.185	
03	SBLKLG2263	115324		4.578		497428		5.715		311804		7.185	
04	226LGLCS3	128080		4.578		564957		5.716		362236		7.185	
05	SBLKWI2263	110961		4.578		495172		5.715		309308		7.185	
06	226WILCS3	112391		4.578		486881		5.715		301055		7.185	
07	226WILCSD3	104775		4.578		461281		5.715		286001		7.185	
08	SBLKLA2253	124581		4.578		538792		5.716		331476		7.185	
09	225LALCS3	133856		4.578		598246		5.715		372939		7.185	
10	TP217	118074		4.578		500633		5.715		296048		7.185	
11	TP217MS	112683		4.578		491348		5.715		304356		7.185	
12	TP217MSD	122339		4.584		538193		5.715		319271		7.191	
13	13LNE	116381		4.584		496259		5.715		311872		7.185	
14	13FLE	112245		4.584		486840		5.715		302830		7.185	
15	13FLS	119396		4.584		511405		5.715		320805		7.185	
16	13FLW	115098		4.578		495326		5.715		309379		7.185	
17	13FLN	112206		4.578		484507		5.715		296544		7.191	

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0471.d Date Analyzed: 08/15/07

Instrument ID: HP10623 Time Analyzed: 20:08

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	113004	4.584	501145	5.715	309645	7.185
	UPPER LIMIT	226008	5.084	1002290	6.215	619290	7.685
	LOWER LIMIT	56502	4.084	250573	5.215	154823	6.685
	EPA SAMPLE NO.						
18	13-PP	122528	4.584	527601	5.715	322421	7.191
19	INF14	104115	4.578	460008	5.715	285339	7.191
20	EFF14	108209	4.578	472073	5.715	293501	7.191
21	GP1-A	120092	4.584	456309	5.728	280641	7.210
22	GP1-AMS	116328	4.590	441618	5.728	273509	7.210
23	GP1-AMSD	116202	4.590	451943	5.728	281464	7.209
24	GP1-B	123885	4.584	544451	5.715	342073	7.191
25	GP2-A	119520	4.584	495999	5.721	318871	7.203
26	GP2-B	116784	4.584	511151	5.716	319842	7.191
27	GP3-A	121620	4.584	490142	5.721	300718	7.203
28	GP3-B	123830	4.584	535299	5.716	336896	7.191
29	GP4-A	120631	4.584	501854	5.722	311512	7.197
30	GP4-B	115880	4.584	505477	5.715	314496	7.191
31	2SB50	119318	4.584	498956	5.722	308356	7.197

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0471.d Date Analyzed: 08/15/07

Instrument ID: HP10623 Time Analyzed: 20:08

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA #	RT #		AREA #	RT #		AREA #	RT #
	12 HOUR STD	555549	8.396		494664	10.542		433314	11.667
	UPPER LIMIT	1111098	8.896		989328	11.042		866628	12.167
	LOWER LIMIT	277775	7.896		247332	10.042		216657	11.167
	EPA SAMPLE NO.								
01	SBLKLE2263	504687	8.396		466350	10.542		435295	11.667
02	226LELCS3	603593	8.396		523855	10.548		444212	11.667
03	SBLKLG2263	568225	8.396		510123	10.542		454468	11.667
04	226LGLCS3	641791	8.396		512850	10.542		431953	11.667
05	SBLKWI2263	568944	8.396		494457	10.542		447871	11.667
06	226WILCS3	542969	8.396		484788	10.542		424125	11.667
07	226WILCSD3	508800	8.396		455051	10.542		402459	11.667
08	SBLKLA2253	617161	8.396		525942	10.542		458493	11.667
09	225LALCS3	663459	8.396		533591	10.542		455940	11.667
10	TP217	463802	8.402		400519	10.548		380821	11.667
11	TP217MS	481968	8.402		384435	10.548		352045	11.667
12	TP217MSD	481814	8.402		387775	10.554		350417	11.673
13	13LNE	566930	8.396		491016	10.542		396079	11.667
14	13FLE	546721	8.396		459719	10.542		381750	11.667
15	13FLS	580519	8.396		497979	10.542		407223	11.667
16	13FLW	571341	8.396		477430	10.542		390104	11.667
17	13FLN	543895	8.402		461456	10.554		380348	11.680

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): ch0471.d Date Analyzed: 08/15/07

Instrument ID: HP10623 Time Analyzed: 20:08

		IS4(PHN)		IS5(CRY)		IS6(PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	555549	8.396	494664	10.542	433314	11.667
	UPPER LIMIT	1111098	8.896	989328	11.042	866628	12.167
	LOWER LIMIT	277775	7.896	247332	10.042	216657	11.167
	EPA SAMPLE NO.						
18	13-PP	590285	8.402	477550	10.554	387428	11.679
19	INF14	505511	8.402	438325	10.554	372854	11.679
20	EFF14	527864	8.402	451787	10.554	380838	11.680
21	GP1-A	344641	8.427	433703	10.555	385243	11.680
22	GP1-AMS	336773	8.427	419493	10.561	387683	11.686
23	GP1-AMSD	373117	8.427	435962	10.560	389215	11.686
24	GP1-B	604663	8.402	479832	10.554	394304	11.679
25	GP2-A	479672	8.415	463868	10.554	393777	11.680
26	GP2-B	577388	8.402	463749	10.555	374888	11.680
27	GP3-A	429270	8.415	416578	10.554	353115	11.679
28	GP3-B	587006	8.402	454825	10.554	376354	11.680
29	GP4-A	473201	8.415	425336	10.554	366075	11.680
30	GP4-B	560286	8.402	434421	10.554	360909	11.680
31	2SB50	477174	8.409	441682	10.555	366217	11.680

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): gh0151.d Date Analyzed: 08/03/07

Instrument ID: HP11165 Time Analyzed: 19:56

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	166406	4.916	745919	6.066	485559	7.547
	UPPER LIMIT	332812	5.416	1491838	6.566	971118	8.047
	LOWER LIMIT	83203	4.416	372960	5.566	242780	7.047
	EPA SAMPLE NO.						
01	SBLKWA2147	145617	4.916	637469	6.066	432914	7.542
02	214WALCS7	159680	4.916	701623	6.066	463402	7.547
03	214WALCSD7	161434	4.916	708768	6.066	470941	7.547
04	SBLKLF2147	138855	4.916	580259	6.066	375992	7.542
05	214LFLCS7	154634	4.916	645904	6.066	425203	7.542
06	SBLKWD2157	148813	4.916	621476	6.066	410049	7.542
07	215WDLCS7	138005	4.916	590764	6.066	398956	7.542
08	215WDLCSD7	147991	4.916	627156	6.066	414659	7.542
09	EB801	138908	4.916	592734	6.066	389737	7.542
10	31LNE	149063	4.916	621992	6.060	406836	7.542
11	31FLE	151204	4.916	639085	6.066	414569	7.542
12	31FLS	149248	4.916	631394	6.060	416472	7.542
13	31FLW	142803	4.916	601611	6.066	402352	7.542
14	31FLN	147056	4.916	625774	6.060	404486	7.542
15	31-PP	142504	4.916	597713	6.060	391286	7.542
16	1307X	149101	4.916	661208	6.066	435598	7.542
17	F731-	149643	4.916	642631	6.060	431489	7.542

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

0862

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): gh0151.d Date Analyzed: 08/03/07

Instrument ID: HP11165 Time Analyzed: 19:56

		IS1(DCB)		IS2(NPT)		IS3(ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	166406	4.916	745919	6.066	485559	7.547
	UPPER LIMIT	332812	5.416	1491838	6.566	971118	8.047
	LOWER LIMIT	83203	4.416	372960	5.566	242780	7.047
	EPA SAMPLE NO.						
18	D731-	153408	4.916	659987	6.066	434217	7.542
19	04514	149601	4.916	633352	6.066	423448	7.542
20	20014	157441	4.916	669049	6.066	436586	7.542
21	40014	154703	4.916	664437	6.060	438683	7.542
22	PONDO	166426	4.916	729139	6.066	468130	7.542
23	SG215RE	149212	4.916	644649	6.066	428752	7.542
24	SG208RE	154718	4.916	684107	6.066	446675	7.542
25	SG108RE	155970	4.916	685369	6.066	456861	7.547
26	B1---RE	166513	4.916	738298	6.066	485452	7.542

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): gh0151.d Date Analyzed: 08/03/07

Instrument ID: HP11165 Time Analyzed: 19:56

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA #	RT #		AREA #	RT #		AREA #	RT #
	12 HOUR STD	907065	8.767		812907	10.954		718802	12.409
	UPPER LIMIT	1814130	9.267		1625814	11.454		1437604	12.909
	LOWER LIMIT	453533	8.267		406454	10.454		359401	11.909
	EPA SAMPLE NO.								
01	SBLKWA2147	834402	8.761		836214	10.944		617642	12.398
02	214WALCS7	856504	8.761		827866	10.949		602416	12.404
03	214WALCSD7	866267	8.761		825055	10.949		598554	12.404
04	SBLKLF2147	736479	8.761		728223	10.944		523156	12.398
05	214LFLCS7	798865	8.761		779838	10.944		543705	12.398
06	SBLKWD2157	802991	8.762		829840	10.944		598385	12.399
07	215WDLCS7	768063	8.761		744195	10.949		537236	12.399
08	215WDLCSD7	782102	8.761		766687	10.949		546418	12.398
09	EB801	766587	8.761		772329	10.944		544439	12.398
10	31LNE	792883	8.761		791771	10.944		553912	12.398
11	31FLE	815274	8.761		795927	10.944		555996	12.399
12	31FLS	812982	8.761		799579	10.944		547876	12.399
13	31FLW	770892	8.762		771227	10.944		530984	12.399
14	31FLN	778463	8.761		766117	10.944		531399	12.398
15	31-PP	749540	8.761		741718	10.944		514572	12.399
16	1307X	800092	8.761		800694	10.944		515621	12.399
17	F731-	840403	8.761		830112	10.944		539015	12.398

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: LANCASTER LABS Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): gh0151.d Date Analyzed: 08/03/07

Instrument ID: HP11165 Time Analyzed: 19:56

		IS4(PHN)			IS5(CRY)			IS6(PRY)	
		AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	907065		8.767		812907		10.954		718802		12.409	
	UPPER LIMIT	1814130		9.267		1625814		11.454		1437604		12.909	
	LOWER LIMIT	453533		8.267		406454		10.454		359401		11.909	
	EPA SAMPLE NO.												
18	D731-	788103		8.762		778312		10.944		499027		12.399	
19	04514	819989		8.761		819266		10.944		519856		12.398	
20	20014	822453		8.762		803433		10.944		518811		12.399	
21	40014	831845		8.762		810493		10.944		516552		12.399	
22	PONDO	851047		8.762		817639		10.944		515055		12.399	
23	SG215RE	806751		8.761		815485		10.944		564291		12.399	
24	SG208RE	856612		8.761		816837		10.944		569503		12.399	
25	SG108RE	857568		8.767		853317		10.944		597352		12.404	
26	B1---RE	930522		8.761		904728		10.944		627501		12.399	

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT (advisory) = +100% of internal standard area
AREA LOWER LIMIT (advisory) = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard are and RT values with an asterisk
* Values outside of QC limits.

Sample Data

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Soil Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.i	HP06756.I	HP06756.i	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
1,1'-Biphenyl	32.343	30.535	32.854	33.813	33.171	32.040	31.948	32.386	1.05	3.143	3.30	33.33	97	33
1,2,4,5-Tetrachlorobenzene	31.335	28.409	30.882	31.863	33.255	33.158	29.960	31.266	1.73	3.143	5.43	33.33	94	67
1,2,4-Trichlorobenzene	30.908	28.923	31.210	30.949	30.420	30.470	28.886	30.252	0.96	3.143	3.02	33.33	91	33
1,2-Dichlorobenzene	30.056	28.808	27.392	30.667	29.181	28.763	27.482	28.907	1.21	3.143	3.82	33.33	87	33
1,2-Diphenylhydrazine	26.468	25.564	25.146	27.617	25.188	26.239	24.223	25.778	1.10	3.143	3.46	33.33	77	33
1,3,5-Trinitrobenzene *	217.224	227.916	220.939	220.191	218.522	215.032	213.274	219.014	4.77	3.143	15.00	166.66	131	170
1,3-Dichlorobenzene	31.299	27.550	27.339	29.646	28.721	29.465	26.395	28.631	1.67	3.143	5.24	33.33	86	170
1,3-Dinitrobenzene	19.117	14.622	18.155	14.538	17.258	18.190	15.043	16.703	1.92	3.143	6.05	33.33	50	67
1,4-Dichlorobenzene	30.650	30.553	28.002	35.118	30.304	29.664	27.844	30.305	2.42	3.143	7.60	33.33	91	33
1,4-Dinitrobenzene	9.136	11.185	15.566	14.874	11.512	17.072	13.597	13.277	2.80	3.143	8.79	33.33	40	33
1,4-Dioxane	19.963	17.134	15.078	21.283	16.720	12.130	15.867	16.882	3.05	3.143	9.59	33.33	51	100
1,4-Naphthoquinone	101.654	93.711	109.087	106.876	109.972	113.920	108.533	106.250	6.64	3.143	20.87	166.67	64	830
1-Chloronaphthalene	27.281	25.623	26.526	27.580	26.730	27.169	26.481	26.770	0.85	3.143	2.64	33.33	80	33
1-Methylnaphthalene	31.325	29.973	30.300	31.495	32.527	31.291	28.118	30.718	1.42	3.143	4.46	33.33	92	33
1-Naphthylamine *	18.135	14.963	14.107	12.529	14.026	12.695	25.261	15.968	4.49	3.143	14.09	166.66	10	170
1-Nitronaphthalene	20.241	22.694	26.812	25.083	24.774	23.509	21.039	23.450	2.32	3.143	7.31	33.33	70	33
2,2'-oxybis(1-Chloropropane)	32.857	33.144	34.115	37.721	35.312	35.215	33.081	34.492	1.74	3.143	5.46	33.33	103	33
2,3,4,6-Tetrachlorophenol	25.926	25.419	24.917	24.051	23.989	24.791	24.365	24.780	0.72	3.143	2.25	33.33	74	67
2,4,5-Trichlorophenol	22.682	23.536	24.945	27.404	23.166	25.702	23.697	24.447	1.67	3.143	5.25	33.33	73	67
2,4,6-Trichlorophenol	25.460	23.190	25.970	23.167	24.477	23.484	19.900	23.664	1.99	3.143	6.27	33.33	71	33
2,4-Dichlorophenol	30.063	25.606	26.672	26.795	26.655	25.685	25.405	26.983	1.76	3.143	5.52	33.33	81	33
2,4-Dimethylphenol	24.972	27.051	27.450	28.678	7.557	15.344	10.297	20.193	8.90	3.143	27.98	33.33	61	67
2,4-Dinitrophenol	156.657	134.032	163.925	148.815	162.990	151.056	156.188	153.380	10.19	3.143	32.02	333.33	46	670
2,4-Dinitrotoluene	24.857	22.510	21.736	25.873	26.004	24.890	20.579	23.778	2.15	3.143	6.76	33.33	71	67
2,6-Dichlorophenol	27.636	27.574	26.348	28.216	24.314	26.488	24.368	26.421	1.56	3.143	4.92	33.33	79	67
2,6-Dinitrotoluene	22.057	19.230	23.130	28.044	24.542	23.173	21.064	23.034	2.79	3.143	8.77	33.33	69	33
2-Acetylaminofluorene	10.438	10.858	14.036	12.333	11.342	12.849	11.330	11.884	1.26	3.143	3.96	33.33	36	67

Analyst name and ID (printed): Joe Gambler 346 Approved by: CMR 4/12

Signature:

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Soil Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
2-Chloronaphthalene	30.438	27.768	29.708	31.940	31.466	32.193	30.427	30.563	1.52	3.143	4.79	33.33	92	33
2-Chlorophenol	31.113	29.155	29.246	33.651	30.174	32.228	29.742	30.758	1.68	3.143	5.27	33.33	92	33
2-Methylnaphthalene	29.536	29.464	27.879	29.711	29.235	30.191	27.290	29.044	1.05	3.143	3.31	33.33	87	33
2-Methylphenol	35.859	32.344	34.582	34.116	41.786	30.953	28.709	34.050	4.17	3.143	13.11	33.33	102	67
2-Naphthylamine @	5.408	11.151	4.844	5.165	6.703	7.658	18.507	8.491	4.92	3.143	15.46	166.66	5	170
2-Nitroaniline	19.239	20.113	21.397	18.694	20.188	20.496	17.808	19.705	1.21	3.143	3.79	33.33	59	33
2-Nitrophenol	24.457	23.039	23.868	24.373	25.412	26.149	25.311	24.658	1.05	3.143	3.29	33.33	74	33
2-Picoline *	78.298	84.677	89.548	96.796	98.889	83.036	68.326	85.653	10.62	3.143	33.38	166.66	51	100
3,3'-Dichlorobenzidine *	41.034	44.374	26.009	22.975	23.561	24.194	86.304	38.350	22.92	3.143	72.03	166.66	23	100
3,3'-Dimethylbenzidine ***	224.855	45.265	69.049	70.655	55.070	37.997	28.804	75.956	67.44	3.143	211.96	333.33	23	330
3-Methylcholanthrene	16.144	15.615	11.924	16.968	5.345	7.498	8.713	11.744	4.65	3.143	14.62	33.33	35	70
3-Nitroaniline *	99.879	99.363	82.324	80.968	74.910	80.180	118.226	90.836	15.50	3.143	48.72	166.66	55	70
4,4'-Methylenebis(2-Chloroani	22.458	24.553	12.013	10.890	6.324	8.363	60.207	20.687	18.75	3.143	58.93	166.66	12	170
4,6-Dinitro-2-methylphenol	207.484	194.426	207.622	212.634	221.155	212.285	205.472	208.726	8.17	3.143	25.67	333.33	63	170
4-Aminobiphenyl	7.937	9.087	8.366	6.411	4.651	5.450	4.649	6.647	1.82	3.143	5.73	33.33	20	170
4-Bromophenyl-phenylether	29.785	28.184	30.069	28.988	30.654	28.436	28.496	29.230	0.95	3.143	2.97	33.33	88	33
4-Chloro-3-methylphenol	27.637	25.354	25.948	24.533	25.419	28.352	25.441	26.098	1.38	3.143	4.33	33.33	78	67
4-Chloroaniline *	40.147	32.592	28.675	26.914	25.816	31.114	66.191	35.921	14.17	3.143	44.52	166.66	22	67
4-Chlorophenyl-phenylether	30.950	29.871	32.224	32.365	31.063	34.170	29.768	31.487	1.56	3.143	4.89	33.33	94	33
4-Methylphenol	31.705	28.258	33.468	39.495	36.928	36.485	42.315	35.808	4.92	3.143	15.47	33.33	107	67
4-Nitroaniline	13.440	21.401	13.611	14.212	6.312	9.709	13.279	13.138	4.62	3.143	14.52	33.33	39	67
4-Nitrophenol	262.813	242.478	246.693	247.945	229.194	243.399	235.752	244.039	10.54	3.143	33.13	333.33	73	170
4-Nitroquinoline-1-oxide	89.775	88.589	85.184	91.204	83.818	83.225	86.151	86.849	3.06	3.143	9.61	166.67	52	330
5-Nitro-o-toluidine	10.664	14.446	11.362	9.522	5.401	5.519	11.258	9.742	3.28	3.143	10.32	33.33	29	170
6-Methylchrysene	27.191	26.795	28.672	27.953	29.816	28.155	27.141	27.932	0.99	3.143	3.12	33.33	84	33
7,12-Dimethylbenz[a]anthrace	19.959	18.620	24.921	19.572	22.689	22.655	20.255	21.239	2.23	3.143	7.02	33.33	64	33
a,a-Dimethylphenethylamine *	46.958	58.006	40.122	39.162	36.075	33.388	36.445	41.451	8.47	3.143	26.62	166.66	25	100
Acenaphthene	31.737	29.495	32.074	32.667	32.292	33.097	30.655	31.717	1.25	3.143	3.92	33.33	95	33

Analyst name and ID (printed): Joe Gaudet 346 Approved by: CMR 412

Signature:

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Soil Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
Acenaphthylene	30.804	28.993	30.246	30.574	30.074	31.722	29.268	30.243	0.92	3.143	2.90	33.33	91	33
Acetophenone	35.047	30.808	34.192	34.030	34.247	30.839	30.761	32.846	1.94	3.143	6.09	33.33	99	67
Aniline **	303.517	202.466	260.437	163.093	223.441	183.605	173.195	215.679	50.91	3.143	160.02	333.30	65	170
Anthracene	30.518	28.280	29.969	30.276	30.415	30.990	27.956	29.772	1.17	3.143	3.69	33.33	89	33
Aramite	18.859	17.631	19.531	23.289	20.063	20.867	18.064	19.758	1.92	3.143	6.02	33.33	59	33
Atrazine	24.147	21.857	24.361	24.187	23.737	27.415	25.648	24.479	1.71	3.143	5.39	33.33	73	33
Benzaldehyde	12.791	11.154	11.215	13.379	12.858	11.515	10.813	11.961	1.02	3.143	3.20	33.33	36	67
Benzidine **	1050.840	184.375	345.256	317.570	293.984	207.222	173.847	367.585	308.78	3.143	970.50	333.30	110	1200
Benzo(a)anthracene	35.640	33.874	34.006	35.252	33.933	33.913	33.498	34.302	0.81	3.143	2.53	33.33	103	33
Benzo(a)pyrene	24.697	24.353	25.253	26.004	24.897	24.300	24.782	24.698	0.59	3.143	1.84	33.33	75	33
Benzo(b)fluoranthene	28.851	26.651	30.251	28.975	32.554	30.807	28.593	29.526	1.88	3.143	5.91	33.33	89	33
Benzo(g,h,i)perylene	23.227	21.988	24.359	23.035	25.861	22.868	22.339	23.382	1.33	3.143	4.17	33.33	70	33
Benzo(k)fluoranthene	30.659	28.598	32.133	29.552	32.475	32.012	29.485	30.702	1.54	3.143	4.82	33.33	92	33
Benzoic acid	102.275	92.647	99.851	94.467	98.954	94.577	91.299	96.296	4.08	3.143	12.83	333.33	29	170
Benzyl alcohol **	328.044	291.868	353.519	322.606	330.478	354.419	294.643	325.082	24.98	3.143	78.50	333.30	98	170
Biphenyl	32.343	30.535	32.854	33.813	33.171	32.040	31.946	32.386	1.05	3.143	3.30	33.33	97	33
bis(2-Chloroethoxy)methane	32.835	28.768	32.032	33.764	33.767	30.164	32.997	32.047	1.90	3.143	5.96	33.33	96	33
bis(2-Chloroethyl)ether	28.448	25.458	28.348	28.975	27.055	27.970	27.357	27.659	1.17	3.143	3.68	33.33	83	33
bis(2-Chloroisopropyl)ether	32.857	33.144	34.115	37.721	35.312	35.215	33.081	34.492	1.74	3.143	5.48	33.33	103	33
bis(2-Ethylhexyl)phthalate	30.732	31.289	32.904	31.084	32.984	31.865	29.998	31.551	1.11	3.143	3.48	33.33	95	67
Butylbenzylphthalate	27.923	25.424	27.607	28.569	28.590	28.168	27.051	27.333	1.07	3.143	3.38	33.33	82	67
Caprolactam	20.857	15.718	18.786	18.457	15.309	18.235	18.061	17.917	1.89	3.143	5.94	33.33	54	33
Carbazole	31.285	29.661	30.027	30.986	28.346	29.174	26.938	29.488	1.51	3.143	4.75	33.33	88	33
Chlorobenzilate	25.830	22.925	26.232	24.157	25.380	22.695	23.132	24.336	1.48	3.143	4.64	33.33	73	33
Chrysene	32.474	31.989	31.065	32.953	32.680	29.800	32.289	31.893	1.10	3.143	3.47	33.33	96	33
Diallate TRANS/CIS	24.491	24.029	24.199	28.170	26.532	23.876	24.997	25.185	1.59	3.143	5.01	33.33	76	33
Dibenz(a,h)acridine	18.620	17.164	17.417	18.771	18.459	21.032	15.557	18.146	1.70	3.143	5.33	33.33	54	33
Dibenz(a,h)anthracene	23.826	20.285	23.352	23.344	24.060	22.070	21.791	22.677	1.35	3.143	4.25	33.33	68	33
Dibenz(a,j)acridine *	117.598	135.000	136.233	135.874	132.504	126.283	121.430	129.275	7.55	3.143	23.73	166.66	78	33

6999

Analyst name and ID (printed): Joe Gaudlin 346 Approved by: CMR 4/12

Signature:

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Soil Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
Dibenzofuran	33.118	30.720	32.932	31.691	31.382	31.733	29.381	31.565	1.26	3.143	4.03	33.33	95	33
Diethylphthalate	33.163	30.441	30.562	31.683	30.647	30.635	29.915	31.006	1.09	3.143	3.42	33.33	93	67
Dimethoate *	192.994	197.252	194.741	200.228	195.950	192.614	190.503	194.898	3.25	3.143	10.20	166.66	117	170
Dimethylphthalate	31.266	29.653	31.143	31.594	32.624	32.202	31.991	31.496	0.97	3.143	3.04	33.33	94	67
Di-n-butylphthalate	30.532	26.875	28.615	29.400	29.630	28.032	27.125	28.601	1.35	3.143	4.24	33.33	86	67
Di-n-octylphthalate	21.046	18.907	22.613	20.806	22.309	21.279	19.901	20.980	1.29	3.143	4.06	33.33	63	67
Dinoseb	138.853	137.071	144.502	143.656	144.500	142.814	141.749	141.878	2.69	3.143	9.08	166.67	85	170
Diphenyl	32.343	30.535	32.854	33.813	33.171	32.040	31.946	32.386	1.05	3.143	3.30	33.33	97	33
Diphenyl ether	33.221	30.349	34.401	34.172	32.713	31.146	30.147	32.307	1.77	3.143	5.55	33.33	97	33
Ethyl methanesulfonate	29.673	23.614	26.770	28.005	27.192	27.018	28.602	27.268	1.91	3.143	5.99	33.33	82	67
Fluoranthene	30.828	28.365	31.388	31.576	31.944	30.494	29.613	30.601	1.25	3.143	3.94	33.33	92	33
Fluorene	32.350	31.549	32.889	35.532	33.884	33.779	32.542	33.218	1.31	3.143	4.10	33.33	100	33
Hexachlorobenzene	32.792	28.351	30.539	32.881	29.220	30.281	27.693	30.251	2.03	3.143	6.37	33.33	91	33
Hexachlorobutadiene	30.903	27.526	28.105	26.699	27.408	28.490	26.466	27.942	1.49	3.143	4.68	33.33	84	67
Hexachlorocyclopentadiene	45.467	44.527	45.004	36.268	50.304	45.163	45.663	44.628	4.17	3.143	13.11	66.67	67	170
Hexachloroethane	27.592	23.602	28.087	26.840	23.899	23.363	25.059	25.492	1.99	3.143	6.26	33.33	76	33
Hexachloropropene	23.289	18.830	22.822	21.906	22.696	22.123	21.938	21.943	1.46	3.143	4.60	33.33	66	100
Indeno(1,2,3-cd)pyrene	22.330	21.021	23.054	22.234	21.894	22.884	21.528	22.135	0.72	3.143	2.27	33.33	66	33
Isodrin	34.836	30.100	32.115	30.086	29.031	26.493	25.697	29.766	3.14	3.143	9.86	33.33	89	33
Isophorone	29.524	24.967	26.993	27.810	27.882	31.468	27.530	28.025	2.03	3.143	6.39	33.33	84	33
Isosafrole	23.684	23.253	24.314	23.820	22.484	23.802	22.871	23.461	0.63	3.143	1.97	33.33	70	67
Methapyrilene *	180.358	182.603	181.200	180.156	180.537	180.472	180.154	180.783	0.88	3.143	2.76	1333.33	14	1700
Methyl methanesulfonate	19.290	16.016	18.770	20.260	14.779	15.756	18.037	17.558	2.06	3.143	6.46	33.33	53	33
Methyl parathion	16.522	18.166	19.564	18.940	19.134	18.609	17.425	18.337	1.06	3.143	3.33	33.33	55	170
N,N-dimethyl formamide	13.818	14.681	14.977	20.214	18.781	14.895	15.181	16.078	2.41	3.143	7.58	33.33	48	170
Naphthalene	32.539	31.051	32.905	33.265	33.511	31.543	30.855	32.238	1.06	3.143	3.40	33.33	97	33
Nitrobenzene	30.968	27.589	29.878	32.043	32.373	36.299	34.747	31.985	2.92	3.143	9.18	33.33	96	33
N-Nitrosodiethylamine	23.006	20.436	26.254	26.016	20.981	24.776	21.818	23.327	2.39	3.143	7.50	33.33	70	67

Analyst name and ID (printed): Joe Gamblin 346 Approved by: CMR/4/12

Signature: Title: Senior Chemist

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Soil Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
N-Nitrosodimethylamine	18.268	20.334	21.940	21.364	21.028	21.968	18.084	20.427	1.64	3.143	5.14	33.33	61	67
N-Nitrosodi-n-butylamine *	195.953	198.929	179.777	196.377	176.686	180.039	176.812	186.368	10.15	3.143	31.91	166.66	112	67
N-Nitroso-di-n-propylamine	28.967	26.966	28.368	29.646	28.445	27.035	27.428	28.122	1.02	3.143	3.19	33.33	84	33
N-Nitrosodiphenylamine	27.601	26.856	27.821	29.066	22.362	26.097	24.828	26.376	2.22	3.143	6.99	33.33	79	33
N-Nitrosomethylethylamine	14.987	13.342	15.102	10.795	7.824	7.894	10.685	11.518	3.08	3.143	9.62	33.33	35	67
N-Nitrosomorpholine	25.101	24.096	26.157	31.876	25.114	23.702	26.452	26.071	2.75	3.143	8.63	33.33	78	67
N-Nitrosopiperidine	24.785	25.438	21.334	25.262	22.675	22.921	23.757	23.739	1.52	3.143	4.78	33.33	71	67
N-Nitrosopyrrolidine	26.295	21.025	23.494	24.686	23.408	26.316	22.529	23.965	1.95	3.143	6.11	33.33	72	67
O,O,O-triethylphosphorothioat	25.611	23.094	26.564	26.620	27.266	28.541	27.333	26.433	1.72	3.143	5.42	33.33	79	67
Octachlorostyrene	70.732	66.490	70.061	63.984	70.210	67.351	66.209	67.862	2.53	3.143	7.96	70.00	97	170
o-Toluidine **	274.378	125.988	190.343	106.384	155.339	106.573	106.829	152.262	62.34	3.143	195.94	333.30	46	200
Parathion	111.868	98.180	120.269	113.316	111.630	112.131	107.969	110.766	6.67	3.143	20.96	166.67	66	170
p-Dimethylaminoazobenzene	17.208	16.673	19.860	18.040	11.944	16.221	13.356	16.186	2.71	3.143	8.53	33.33	49	67
Pentachlorobenzene	29.585	27.417	30.373	33.220	30.607	32.044	27.316	30.080	2.20	3.143	6.92	33.33	90	67
Pentachloroethane	27.129	21.297	23.629	24.906	23.403	25.964	23.412	24.249	1.92	3.143	6.04	33.33	73	33
Pentachloronitrobenzene	19.860	6.013	27.506	20.987	12.379	27.997	21.818	19.508	7.92	3.143	24.90	33.33	59	67
Pentachlorophenol	269.784	234.563	262.077	254.394	243.306	236.258	238.032	248.345	13.86	3.143	43.56	333.33	75	170
Phenacetin	23.319	20.409	22.754	22.861	21.638	21.380	21.967	22.047	1.01	3.143	3.16	33.33	66	67
Phenanthrene	34.984	32.349	33.716	35.678	32.879	34.257	33.644	33.929	1.16	3.143	3.63	33.33	102	33
Phenol	33.502	31.167	31.993	31.967	31.770	32.957	31.290	32.092	0.65	3.143	2.68	33.33	96	33
Phorate	21.751	23.554	17.365	22.779	15.287	17.077	13.571	18.769	3.91	3.143	12.30	33.33	56	33
Pronamide	21.955	19.730	20.481	22.758	16.734	18.958	15.787	19.486	2.66	3.143	8.05	33.33	58	33
Pyrene	33.884	31.473	33.392	31.777	32.860	32.918	30.322	32.347	1.20	3.143	3.78	33.33	97	33
Pyridine *	60.184	54.571	72.773	76.366	72.884	63.090	58.337	65.458	8.47	3.143	26.62	166.66	39	67
Ronnel	26.747	24.977	25.183	29.532	26.366	27.023	25.419	26.464	1.57	3.143	4.93	33.33	79	33
Safrole	26.591	23.770	28.058	27.644	27.161	26.423	26.429	26.582	1.39	3.143	4.37	33.33	80	67
Tetraethyldithiopyrophosphate	24.517	22.382	23.606	26.536	24.604	26.859	27.074	25.083	1.79	3.143	5.63	33.33	75	67

Analyst name and ID (printed): Joe Gamblin 346 Approved by: CME/412

Signature:

Extraction Method:
SW-846 3550B
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Soil Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd137.d	nd138.d	nd139.d	nd140.d	nd141.d	nd142.d	nd143.d
Injection Date	4/7/2006 11:25	4/7/2006 12:22	4/7/2006 13:18	4/7/2006 14:15	4/7/2006 15:11	4/7/2006 16:07	4/7/2006 17:04
Lab Sample ID	SOILA	SOILB	SOILC	SOILD	SOILE	SOILF	SOILG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055SLH026						

Compound Name	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Concentration (ug/kg)	Mean Concentration (ug/kg)	Standard Deviation	Student T value used	Sample MDL (ug/kg)	Sample Spike Level (ug/kg)	Average %Rec.	Reported MDL (ug/kg)
Thionazin	23.518	20.853	21.272	25.325	19.986	22.863	15.636	21.351	3.10	3.143	9.73	33.33	64	67
Quinoline #	24.710	23.682	15.629	23.658	19.609	22.144	13.882	20.473	4.26	3.143	13.39	33.33	61	33
Indene #	35.827	33.837	35.584	36.992	33.471	35.075	30.621	34.487	2.08	3.143	6.55	33.33	103	33
Benzenethiol $	6.884	10.117	7.903	7.920	6.213	7.890	10.376	8.186	1.55	3.143	4.86	167.00	5	330
1,4-Phenylenediamine ***	14761.283	6166.538	9622.363	5174.383	7938.597	6903.237	5480.935	8006.762	3347.75	3.143	10521.99	33333.30	24	12000

* = Taken from files nd156.d, nd157.d, nd158.d, nd159.d, nd160.d, nd161.d, nd162.d
@ = Taken from files od0228.d, od0229.d, od230.d, od231.d, od232.d, od233.d, od234.d
# = Taken from files bd317.d, bd318.d, bd319.d, bd320.d, bd321.d, bd322.d, bd323.d
$ = Taken from files bd349.d, bd350.d, bd351.d, bd352.d, bd353.d, bd354.d, bd355.d
** = Taken from files ed1397.d, ed1398.d, ed1399.d, ed1400.d, ed1401.d, ed1402.d, ed1403.d
*** = Taken from files md563.d, md564.d, md565.d, md566.d, md567.d, md568.d, md569.d

22.00

Analyst name and ID (printed): Joy Gamblin Approved by: CMR/412

Signature:

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Water Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)
1,1'-Biphenyl	0.928	0.962	0.939	0.974	0.998	0.964	1.010	0.968	0.030	3.143	0.093	1.00	97	1
1,2,4,5-Tetrachlorobenzene	0.939	0.935	0.899	0.982	0.937	0.945	1.008	0.949	0.035	3.143	0.111	1.00	95	2
1,2,4-Trichlorobenzene	0.987	0.851	0.863	0.974	0.929	0.909	0.919	0.919	0.051	3.143	0.160	1.00	92	1
1,2-Dichlorobenzene	0.976	0.937	0.870	0.954	0.845	0.928	0.909	0.917	0.046	3.143	0.145	1.00	92	1
1,2-Diphenylhydrazine	0.802	0.825	0.770	0.778	0.795	0.804	0.758	0.790	0.023	3.143	0.072	1.00	79	1
1,3,5-Trinitrobenzene *	4.297	4.733	4.027	4.601	4.463	4.836	4.515	4.496	0.27	3.143	0.855	5.00	90	5
1,3-Dichlorobenzene	0.905	0.899	0.840	0.917	0.909	0.911	0.880	0.895	0.027	3.143	0.084	1.00	89	1
1,3-Dinitrobenzene	0.539	0.553	0.416	0.474	0.444	0.502	0.384	0.473	0.063	3.143	0.197	1.00	47	2
1,4-Dichlorobenzene	0.928	0.982	0.875	0.915	0.946	0.921	0.891	0.923	0.035	3.143	0.111	1.00	92	1
1,4-Dinitrobenzene	0.330	0.318	0.246	0.270	0.358	0.377	0.331	0.318	0.046	3.143	0.145	1.00	32	1
1,4-Dioxane	0.485	0.446	0.469	0.436	0.485	0.467	0.443	0.462	0.020	3.143	0.063	1.00	46	1
1,4-Naphthoquinone **	24.148	20.949	18.671	17.126	20.640	21.816	22.481	20.833	2.350	3.143	7.386	50.00	42	10
1-Chloronaphthalene	0.808	0.882	0.777	0.835	0.850	0.800	0.848	0.829	0.036	3.143	0.112	1.00	83	1
1-Methylnaphthalene	0.916	0.978	0.913	0.939	1.022	0.975	0.971	0.959	0.039	3.143	0.123	1.00	96	1
1-Naphthylamine *	1.411	1.674	2.004	1.649	1.805	1.751	1.903	1.743	0.19	3.143	0.604	5.00	35	5
1-Nitronaphthalene	0.779	0.778	0.780	0.728	0.748	0.775	0.609	0.742	0.062	3.143	0.195	1.00	74	1
2,2'-oxybis(1-Chloropropane)	1.124	1.028	1.014	1.092	1.049	1.024	1.077	1.058	0.041	3.143	0.129	1.00	106	1
2,3,4,6-Tetrachlorophenol	0.778	0.738	0.756	0.771	0.810	0.738	0.709	0.757	0.033	3.143	0.103	1.00	76	2
2,4,5-Trichlorophenol	0.717	0.762	0.701	0.827	0.648	0.635	0.658	0.707	0.069	3.143	0.217	1.00	71	1
2,4,6-Trichlorophenol	0.805	0.795	0.735	0.782	0.692	0.721	0.632	0.737	0.062	3.143	0.196	1.00	74	1
2,4-Dichlorophenol	0.769	0.856	0.757	0.767	0.755	0.829	0.766	0.786	0.040	3.143	0.126	1.00	79	1
2,4-Dimethylphenol	0.724	0.725	0.644	0.746	0.698	0.734	0.676	0.707	0.036	3.143	0.114	1.00	71	3
2,4-Dinitrophenol	3.499	4.072	3.559	4.153	3.632	4.007	3.195	3.731	0.354	3.143	1.112	10.00	37	20
2,4-Dinitrotoluene	0.653	0.697	0.627	0.712	0.658	0.663	0.678	0.670	0.028	3.143	0.089	1.00	67	1
2,6-Dichlorophenol	0.785	0.785	0.770	0.828	0.835	0.806	0.784	0.799	0.025	3.143	0.078	1.00	80	2
2,6-Dinitrotoluene	0.674	0.665	0.588	0.751	0.655	0.610	0.662	0.658	0.052	3.143	0.163	1.00	66	1
2-Acetylaminofluorene	0.373	0.366	0.336	0.371	0.325	0.362	0.330	0.352	0.021	3.143	0.066	1.00	35	2

Analyst name and ID (printed): Joe Gamblin 346 Approved by: CMR 1412

Signature:

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

GC/MS Semivolatile Water Composite MDL Study

MDLs verified April 2007

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)
2-Chloronaphthalene	0.910	0.952	0.881	0.915	0.929	0.958	0.916	0.923	0.026	3.143	0.082	1.00	92	2
2-Chlorophenol	0.891	0.972	0.863	0.950	0.902	0.944	0.905	0.918	0.038	3.143	0.120	1.00	92	1
2-Methylnaphthalene	0.871	0.907	0.863	0.913	0.870	0.913	0.873	0.887	0.023	3.143	0.071	1.00	89	1
2-Methylphenol	0.819	0.881	0.888	0.994	1.194	1.130	1.211	1.017	0.162	3.143	0.508	1.00	102	1
2-Naphthylamine	0.274	0.332	0.311	0.275	0.236	0.391	0.215	0.291	0.060	3.143	0.188	1.00	29	5
2-Nitroaniline	0.559	0.614	0.537	0.569	0.561	0.611	0.551	0.572	0.030	3.143	0.093	1.00	57	1
2-Nitrophenol	0.681	0.835	0.722	0.785	0.747	0.732	0.859	0.766	0.064	3.143	0.201	1.00	77	1
2-Picoline	0.617	0.566	0.549	0.387	0.358	0.533	0.024	0.433	0.204	3.143	0.641	1.00	43	2
3,3'-Dichlorobenzidine	0.295	0.354	0.277	0.365	0.312	0.472	0.345	0.346	0.065	3.143	0.203	1.00	35	2
3,3'-Dimethylbenzidine	0.287	0.265	0.234	0.194	0.348	0.575	0.115	0.288	0.146	3.143	0.459	1.00	29	10
3-Methylcholanthrene	0.568	0.573	0.553	0.547	0.554	0.568	0.537	0.557	0.013	3.143	0.041	1.00	56	2
3-Nitroaniline	0.386	0.438	0.369	0.372	0.427	0.501	0.437	0.419	0.047	3.143	0.148	1.00	42	1
4,4'-Methylenebis(2-Chloroani	0.185	0.208	0.126	0.202	0.175	0.264	0.234	0.199	0.044	3.143	0.138	1.00	20	5
4,6-Dinitro-2-methylphenol	5.852	6.697	6.253	6.405	6.256	6.814	5.660	6.277	0.417	3.143	1.311	10.00	63	5
4-Aminobiphenyl	0.424	0.434	0.401	0.407	0.423	0.493	0.384	0.424	0.035	3.143	0.109	1.00	42	2
4-Bromophenyl-phenylether	0.873	0.923	0.860	0.882	0.911	0.971	0.825	0.892	0.048	3.143	0.150	1.00	89	1
4-Chloro-3-methylphenol	0.694	0.719	0.694	0.736	0.718	0.737	0.755	0.722	0.023	3.143	0.071	1.00	72	1
4-Chloroaniline	0.410	0.388	0.365	0.428	0.404	0.488	0.440	0.418	0.040	3.143	0.124	1.00	42	1
4-Chlorophenyl-phenylether	0.900	0.965	0.893	0.917	0.941	0.970	1.023	0.944	0.046	3.143	0.144	1.00	94	2
4-Methylphenol	0.718	0.779	0.667	0.743	0.809	0.837	0.893	0.778	0.076	3.143	0.239	1.00	78	2
4-Nitroaniline	0.622	0.602	0.669	0.647	0.644	0.712	0.658	0.651	0.035	3.143	0.110	1.00	65	1
4-Nitrophenol	3.037	3.296	2.968	3.271	3.304	3.399	2.953	3.176	0.183	3.143	0.577	10.00	32	10
4-Nitroquinoline-1-oxide	3.011	3.010	2.871	2.991	2.962	3.008	2.863	2.959	0.065	3.143	0.205	10.00	30	20
5-Nitro-o-toluidine *	2.662	2.556	2.772	2.774	2.740	2.853	3.019	2.768	0.15	3.143	0.458	5.00	55	3
6-Methylchrysene	0.799	0.887	0.803	0.863	0.813	0.876	0.870	0.844	0.038	3.143	0.119	1.00	84	1
7,12-Dimethylbenz[a]anthrace	0.347	0.376	0.291	0.353	0.331	0.411	0.315	0.346	0.039	3.143	0.124	1.00	35	2
a,a-Dimethylphenethylamine *	1.661	1.387	0.516	1.381	0.997	1.014	1.384	1.191	0.38	3.143	1.188	5.00	24	2
Acenaphthene	0.918	0.996	0.975	1.057	0.927	0.993	1.023	0.984	0.050	3.143	0.156	1.00	98	1

Analyst name and ID (printed): Joe Gamblin 346 Approved by: CME/412

Signature: Title: Specialist

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Water Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)
Acenaphthylene	0.946	0.960	0.879	0.943	0.898	0.932	0.955	0.930	0.031	3.143	0.097	1.00	93	1
Acetophenone	0.962	1.043	0.955	0.976	0.956	1.022	1.067	0.997	0.046	3.143	0.145	1.00	100	2
Aniline	0.303	0.342	0.303	0.338	0.313	0.398	0.334	0.333	0.033	3.143	0.104	1.00	33	1
Anthracene	0.893	0.920	0.872	0.900	0.879	0.942	0.884	0.898	0.025	3.143	0.078	1.00	90	1
Aramite ***	3.917	3.805	3.462	3.982	4.002	4.261	4.165	3.942	0.260	3.143	0.818	10.00	39	5
Atrazine	0.729	0.801	0.741	0.763	0.675	0.734	0.636	0.725	0.055	3.143	0.172	1.00	73	2
Benzaldehyde	0.404	0.395	0.378	0.381	0.402	0.411	0.358	0.390	0.018	3.143	0.058	1.00	39	1
Benzidine *	3.578	6.726	7.694	5.398	6.829	4.606	5.313	5.735	1.43	3.143	4.489	25.00	23	20
Benzo(a)anthracene	1.031	1.088	1.000	1.007	1.020	1.049	1.039	1.033	0.030	3.143	0.093	1.00	103	1
Benzo(a)pyrene	0.737	0.762	0.695	0.729	0.732	0.764	0.739	0.737	0.023	3.143	0.073	1.00	74	1
Benzo(b)fluoranthene	0.789	0.850	0.796	0.825	0.833	0.822	0.845	0.823	0.023	3.143	0.072	1.00	82	1
Benzo(g,h,i)perylene	0.660	0.691	0.667	0.699	0.647	0.672	0.659	0.671	0.018	3.143	0.058	1.00	67	1
Benzo(k)fluoranthene	0.893	0.899	0.809	0.848	0.859	0.898	0.833	0.863	0.035	3.143	0.111	1.00	86	1
Benzoic acid $	7.858	8.078	7.889	8.111	7.990	8.148	7.763	7.977	0.1445	3.143	0.4541	10.00	80	6
Benzyl alcohol	6.739	6.108	6.160	5.754	3.813	5.516	4.043	5.448	1.107	3.143	3.480	10.00	54	5
Biphenyl	0.928	0.962	0.939	0.974	0.998	0.964	1.010	0.968	0.030	3.143	0.093	1.00	97	1
bis(2-Chloroethoxy)methane	0.986	0.983	0.949	0.954	0.977	0.967	0.965	0.969	0.014	3.143	0.044	1.00	97	1
bis(2-Chloroethyl)ether	0.927	0.871	0.918	0.870	0.880	0.878	0.889	0.891	0.023	3.143	0.072	1.00	89	1
bis(2-Chloroisopropyl)ether	1.124	1.026	1.014	1.092	1.049	1.024	1.077	1.058	0.041	3.143	0.129	1.00	106	1
bis(2-Ethylhexyl)phthalate	0.979	1.023	0.839	0.960	0.951	1.007	0.969	0.964	0.060	3.143	0.189	1.00	96	2
Butylbenzylphthalate	0.719	0.699	0.651	0.612	0.675	0.717	0.639	0.673	0.041	3.143	0.129	1.00	67	2
Caprolactam *	0.857	0.958	0.788	0.785	0.868	0.905	0.865	0.861	0.06	3.143	0.192	5.00	17	5
Carbazole	0.914	0.938	0.886	0.884	0.955	0.929	0.909	0.917	0.026	3.143	0.082	1.00	92	1
Chlorobenzilate	0.409	0.424	0.359	0.287	0.345	0.370	0.333	0.361	0.046	3.143	0.146	1.00	36	3
Chrysene	0.957	0.992	0.961	0.993	0.934	0.984	0.964	0.969	0.022	3.143	0.068	1.00	97	2
Diallate TRANS/CIS	0.795	0.854	0.731	0.866	0.800	0.769	0.730	0.792	0.054	3.143	0.169	1.00	79	1
Dibenz(a,h)acridine	0.591	0.593	0.550	0.577	0.569	0.583	0.546	0.573	0.019	3.143	0.059	1.00	57	1
Dibenz(a,h)anthracene	0.635	0.641	0.609	0.638	0.644	0.598	0.621	0.627	0.017	3.143	0.055	1.00	63	1
Dibenz(a,j)acridine	0.571	0.636	0.557	0.567	0.482	0.614	0.566	0.571	0.049	3.143	0.153	1.00	57	2

Analyst name and ID (printed): Joe Gardner 346 Approved by: CMR/4/12

Signature: Title: Senior Chemist

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Water Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)
Dibenzofuran	1.007	0.962	0.922	0.988	0.987	0.981	1.005	0.979	0.029	3.143	0.092	1.00	98	1
Diethylphthalate	0.902	0.882	0.845	0.835	0.788	0.843	0.833	0.847	0.037	3.143	0.115	1.00	85	2
Dimethoate *	4.741	4.837	4.518	4.706	4.815	4.847	4.777	4.749	0.11	3.143	0.358	5.00	95	3
Dimethylphthalate	0.774	0.799	0.730	0.680	0.735	0.715	0.705	0.734	0.041	3.143	0.128	1.00	73	2
Di-n-butylphthalate	0.788	0.794	0.763	0.759	0.772	0.806	0.765	0.778	0.018	3.143	0.057	1.00	78	2
Di-n-octylphthalate	0.538	0.554	0.479	0.526	0.516	0.527	0.516	0.522	0.023	3.143	0.073	1.00	52	2
Dinoseb	4.300	4.386	4.246	4.281	4.193	4.459	4.112	4.282	0.116	3.143	0.365	5.00	86	2
Diphenyl	0.928	0.962	0.939	0.974	0.998	0.964	1.010	0.968	0.030	3.143	0.093	1.00	97	1
Diphenyl ether	0.963	1.071	0.982	1.052	0.988	1.017	1.000	1.011	0.039	3.143	0.123	1.00	101	1
Ethyl methanesulfonate	0.852	0.841	0.780	0.770	0.823	0.836	0.889	0.827	0.041	3.143	0.130	1.00	83	2
Fluoranthene	0.922	0.882	0.869	0.892	0.871	0.882	0.876	0.885	0.018	3.143	0.057	1.00	89	1
Fluorene	1.029	1.063	1.011	1.018	0.994	1.015	1.027	1.023	0.021	3.143	0.067	1.00	102	1
Hexachlorobenzene	0.957	0.930	0.923	0.920	0.946	0.960	0.942	0.940	0.016	3.143	0.050	1.00	94	1
Hexachlorobutadiene	0.824	0.850	0.727	0.826	0.786	0.908	0.829	0.821	0.056	3.143	0.175	1.00	82	1
Hexachlorocyclopentadiene	1.310	1.454	1.306	1.159	1.270	1.425	1.274	1.314	0.100	3.143	0.314	2.00	66	5
Hexachloroethane	0.811	0.907	0.763	0.922	0.763	0.806	0.731	0.815	0.074	3.143	0.231	1.00	81	1
Hexachloropropene	0.493	0.528	0.530	0.555	0.565	0.588	0.582	0.549	0.034	3.143	0.106	1.00	55	2
Indeno(1,2,3-cd)pyrene	0.619	0.602	0.608	0.582	0.570	0.620	0.619	0.603	0.020	3.143	0.062	1.00	60	1
Isodrin	0.771	0.952	0.961	0.840	0.904	0.844	0.928	0.888	0.070	3.143	0.219	1.00	89	1
Isophorone	0.959	0.829	0.767	0.783	0.854	0.793	0.789	0.825	0.066	3.143	0.208	1.00	82	1
Isosafrole	0.774	0.804	0.744	0.849	0.774	0.710	0.730	0.769	0.047	3.143	0.148	1.00	77	2
Methapyrilene *	7.651	7.605	5.717	7.738	5.467	5.728	6.623	6.647	1.02	3.143	3.199	40.00	17	15
Methyl methanesulfonate	0.436	0.443	0.463	0.415	0.462	0.422	0.518	0.451	0.035	3.143	0.109	1.00	45	1
Methyl parathion	0.470	0.506	0.448	0.503	0.477	0.575	0.477	0.494	0.041	3.143	0.129	1.00	49	1
N,N-dimethyl formamide *	0.651	0.596	0.494	0.493	0.588	0.636	0.697	0.594	0.08	3.143	0.243	5.00	12	5
Naphthalene	0.989	1.003	0.974	1.020	1.003	0.976	1.004	0.996	0.017	3.143	0.053	1.00	100	1
Nitrobenzene	0.950	0.908	0.922	0.977	0.959	0.983	0.976	0.954	0.029	3.143	0.091	1.00	95	1
N-Nitrosodiethylamine	0.654	0.815	0.702	0.702	0.714	0.816	0.767	0.739	0.062	3.143	0.195	1.00	74	2
N-Nitrosodimethylamine	0.407	0.444	0.420	0.382	0.361	0.440	0.404	0.408	0.030	3.143	0.094	1.00	41	2

9256

Analyst name and ID (printed): Joe Gambler 346 Approved by: CMR/4/1C

Signature: Joe Gambler Title: Sr. Specialist

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Water Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)
N-Nitrosodi-n-butylamine *	5.258	5.233	5.278	5.075	5.235	5.274	5.273	5.232	0.07	3.143	0.225	5.00	105	2
N-Nitroso-di-n-propylamine	0.853	0.814	0.746	0.776	0.776	0.848	0.927	0.820	0.061	3.143	0.193	1.00	82	1
N-Nitrosodiphenylamine	0.900	0.882	0.814	0.902	0.866	0.868	0.883	0.873	0.030	3.143	0.093	1.00	87	2
N-Nitrosomethylethylamine	0.536	0.524	0.515	0.457	0.569	0.642	0.540	0.540	0.058	3.143	0.177	1.00	54	2
N-Nitrosomorpholine	0.630	0.773	0.700	0.687	0.788	0.710	0.740	0.718	0.054	3.143	0.170	1.00	72	2
N-Nitrosopiperidine	0.804	0.803	0.711	0.830	0.798	0.814	0.767	0.790	0.039	3.143	0.124	1.00	79	2
N-Nitrosopyrrolidine	0.671	0.671	0.652	0.643	0.649	0.712	0.698	0.671	0.026	3.143	0.081	1.00	67	2
O,O,O-triethylphosphorothioat	0.973	0.883	0.816	0.846	0.809	0.840	0.928	0.871	0.061	3.143	0.192	1.00	87	2
Octachlorostyrene	1.795	1.880	1.832	1.983	1.936	2.027	1.973	1.918	0.085	3.143	0.267	2.10	91	2
o-Toluidine	0.270	0.326	0.252	0.389	0.342	0.405	0.368	0.336	0.058	3.143	0.182	1.00	34	1
Parathion	3.153	3.188	2.961	3.020	3.019	3.205	2.962	3.073	0.106	3.143	0.334	5.00	61	1
p-Dimethylaminoazobenzene	0.635	0.560	0.561	0.515	0.546	0.627	0.595	0.577	0.044	3.143	0.138	1.00	58	2
Pentachlorobenzene	0.906	0.994	0.869	0.916	0.822	0.943	0.933	0.912	0.055	3.143	0.172	1.00	91	2
Pentachloronitrobenzene	0.950	0.950	0.690	1.023	0.854	1.010	0.799	0.897	0.121	3.143	0.381	1.00	90	2
Pentachlorophenol	7.044	7.529	6.921	7.154	7.142	7.175	6.462	7.061	0.323	3.143	1.015	10.00	71	3
Phenacetin	0.610	0.641	0.557	0.558	0.595	0.596	0.542	0.586	0.035	3.143	0.110	1.00	59	2
Phenanthrene	1.072	1.025	1.021	1.008	1.006	0.984	1.018	1.019	0.027	3.143	0.084	1.00	102	1
Phenol	0.470	0.443	0.423	0.433	0.443	0.465	0.464	0.449	0.018	3.143	0.056	1.00	45	1
Phorate	0.769	0.807	0.707	0.779	0.789	0.787	0.754	0.770	0.032	3.143	0.101	1.00	77	1
Pronamide	0.625	0.685	0.607	0.668	0.688	0.678	0.608	0.651	0.037	3.143	0.115	1.00	65	1
Pyrene	1.021	0.980	0.931	0.974	0.965	0.994	0.991	0.979	0.028	3.143	0.088	1.00	98	1
Pyridine *	2.430	2.269	2.333	2.232	2.155	2.209	2.274	2.272	0.09	3.143	0.281	5.00	45	2
Ronnel	0.740	0.788	0.797	0.795	0.807	0.802	0.710	0.777	0.037	3.143	0.116	1.00	78	1
Safrole	0.745	0.793	0.767	0.777	0.779	0.748	0.884	0.785	0.047	3.143	0.148	1.00	78	2
Tetraethyldithiopyrophosphate	0.773	0.802	0.679	0.774	0.764	0.775	0.815	0.769	0.044	3.143	0.137	1.00	77	1
Thionazin	0.617	0.709	0.623	0.757	0.676	0.660	0.599	0.663	0.056	3.143	0.177	1.00	66	2
1,4-Phenylenediamine @	118.047	99.508	97.418	51.664	91.796	83.865	104.602	92.414	20.88	3.143	65.62	1000.00	9	75
Indene $	1.152	1.127	1.172	1.014	1.151	1.074	1.040	1.104	0.0616	3.143	0.1936	1.00	110	1
Quinoline $	0.912	0.938	0.906	0.940	0.983	0.975	0.875	0.933	0.0385	3.143	0.1209	1.00	93	1
Benzenethiol #	0.949	0.913	1.181	1.111	1.275	1.363	1.117	1.130	0.1624	3.143	0.5105	5.00	23	5

Analyst name and ID (printed): Joe Gamblin 346

Approved by: Chris 1412

Signature:

Extraction Method:
SW-846 3510C
Analytical Method:
SW-846 8270C
Instrument type: HP5890/5972

MDLs verified April 2007

GC/MS Semivolatile Water Composite MDL Study

Instrument ID	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I	HP06756.I
Datafile	nd197.d	nd198.d	nd199.d	nd200.d	nd201.d	nd202.d	nd203.d
Injection Date	4/11/2006 10:24	4/11/2006 11:19	4/11/2006 12:14	4/11/2006 13:10	4/11/2006 14:05	4/11/2006 15:00	4/11/2006 15:56
Lab Sample ID	WATERA	WATERB	WATERC	WATERD	WATERE	WATERF	WATERG
Client Sample ID	LOWA	LOWB	LOWC	LOWD	LOWE	LOWF	LOWG
Extraction Batch	06055WAM026						

Compound Name	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Concentration (ug/l)	Mean Concentration (ug/l)	Standard Deviation	Student T value used	Sample MDL (ug/l)	Sample Spike Level (ug/l)	Average %Rec.	Reported MDL (ug/l)

* = Taken from files nd217.d, nd218.d, nd219.d, nd220.d, nd221.d, nd222.d, nd223.d
@ = Taken from files nd257.d, nd258.d, nd259.d, nd260.d, nd261.d, nd262.d, nd263.d
$ = Taken from files bd294.d, bd295.d, bd296.d, bd297.d, bd298.d, bd299.d, bd300.d
# = Taken from files bd357.d, bd358.d, bd359.d, bd372.d, bd373.d, bd374.d, bd375.d
** = Taken from files md563.d, md564.d, md565.d, md566.d, md567.d, md568.d, md569.d
*** = Taken from files ne004.d, ne005.d, ne006.d, ne007.d, ne008.d, ne009, ne010.d

Analyst name and ID (printed): Joy Gambino 346 Approved by: CMR | 4/12

Signature:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP217

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118301

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0475.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 22 dec: Date Extracted: 08/15/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/16/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/KG	Q
91-20-3	Naphthalene			770	
208-96-8	Acenaphthylene			370	
83-32-9	Acenaphthene			220	U
86-73-7	Fluorene			280	
85-01-8	Phenanthrene			170	J
120-12-7	Anthracene			250	
206-44-0	Fluoranthene			480	
129-00-0	Pyrene			570	
56-55-3	Benzo(a)anthracene			180	J
218-01-9	Chrysene			200	J
205-99-2	Benzo(b)fluoranthene			150	J
207-08-9	Benzo(k)fluoranthene			77	J
50-32-8	Benzo(a)pyrene			110	J
193-39-5	Indeno(1,2,3-cd)pyrene			65	J
53-70-3	Dibenz(a,h)anthracene			220	U
191-24-2	Benzo(g,h,i)perylene			75	J

8879

TP217

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118301

Data file: /chem/HP10623.i/07aug15.b/ch0475.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 00:18 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.578	(0.006)	520	152.0	118074	(4)	40.00	
46) Naphthalene-d8	5.715	(0.000)	705	136.0	500633	(0)	40.00	
82) Acenaphthene-d10	7.185	(0.000)	944	164.0	296048	(-4)	40.00	
120) Phenanthrene-d10	8.402	(-0.006)	1142	188.0	463802	(-17)	40.00	
149) Chrysene-d12	10.548	(-0.006)	1491	240.0	400519	(-19)	40.00	
161) Perylene-d12	11.667	(0.000)	1673	264.0	380821	(-12)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	% QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.094	(0.000)	82	359399	79.681	80%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.650	(0.000)	172	808506	90.159	90%		55 - 123
138) Terphenyl-d14	(5)	9.724	(0.000)	244	782562	94.708	95%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)	5.734	(0.000)	128	239860	17.938	597.92			1.00
80) Acenaphthylene	(3)	7.068	(0.000)	152	106978	8.754	291.81			1.00
83) Acenaphthene	(3)				Below MDL, Do not report					1.00
94) Fluorene	(3)	7.640	(0.000)	166	65067	6.655	221.83			1.00
121) Phenanthrene	(4)	8.421	(0.000)	178	49834	4.057	135.22			1.00
124) Anthracene	(4)	8.464	(0.000)	178	74734	5.850	194.99			1.00
134) Fluoranthene	(4)	9.411	(-0.003)	202	156182	11.343	378.09			1.00
136) Pyrene	(5)	9.571	(-0.001)	202	166478	13.314	443.79			1.00
146) Benzo(a)anthracene	(5)	10.542	(0.000)	228	47573	4.192	139.73			1.00
150) Chrysene	(5)	10.567	(0.001)	228	54108	4.705	156.84			1.00
158) Benzo(b)fluoranthene	(6)	11.385	(0.000)	252	46433	3.499	116.64			1.00
159) Benzo(k)fluoranthene	(6)	11.403	(0.000)	252	24207	1.804	60.12			1.00
160) Benzo(a)pyrene	(6)	11.624	(0.000)	252	30479	2.476	82.52			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.442	(0.001)	276	23722	1.529	50.96			1.00
169) Dibenz(a,h)anthracene	(6)				Below MDL, Do not report					1.00
170) Benzo(g,h,i)perylene	(6)	12.651	(0.001)	276	23067	1.750	58.32			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

0888

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

Data file: /chem/HP10623.i/07aug15.b/ch0475.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 00:18 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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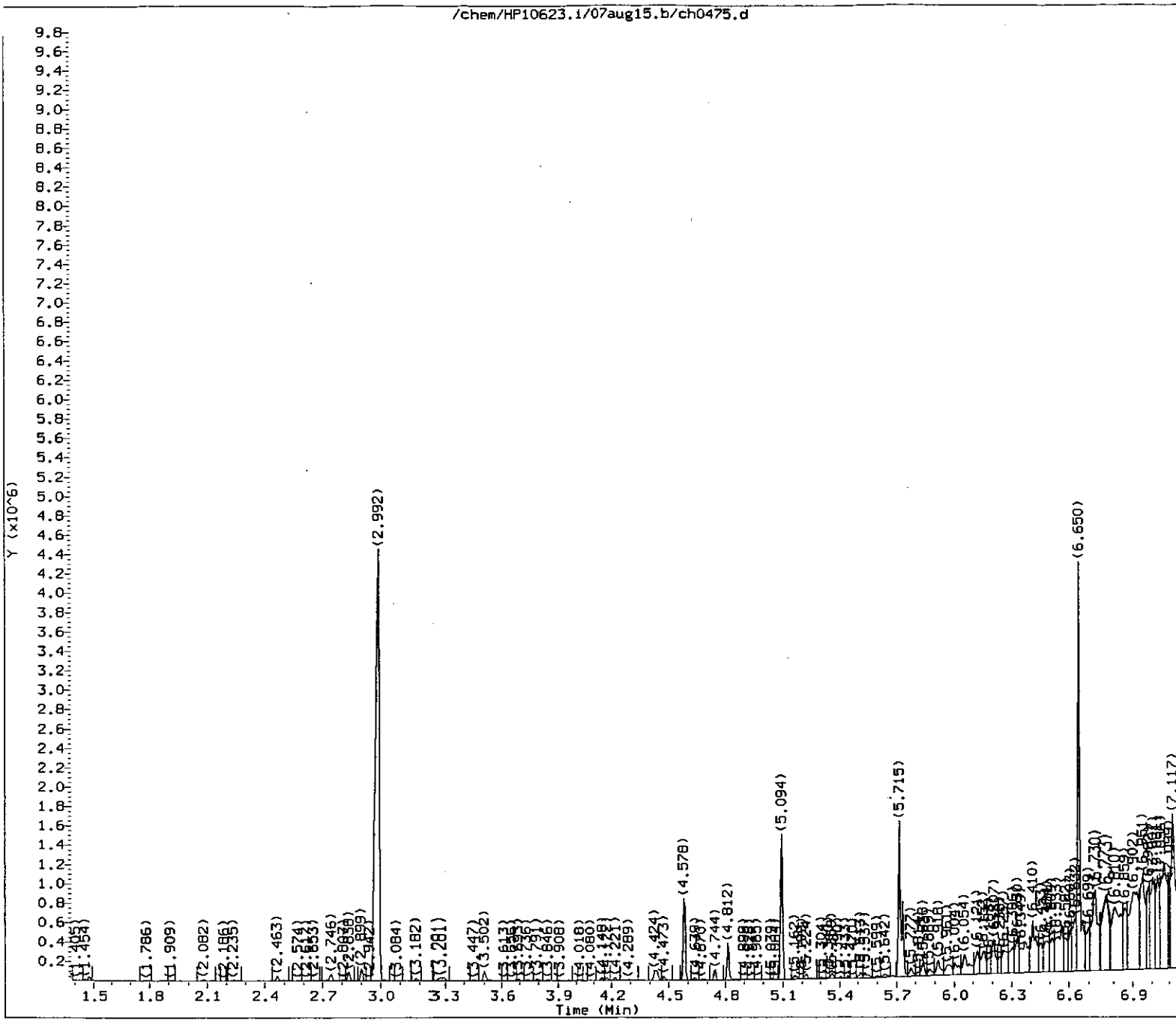
Total number of targets = 16

Comments:

Analyst: Date: 08/16/07
Auditor: Date: 8/16/07



Quant Report

Target Revision 3.5

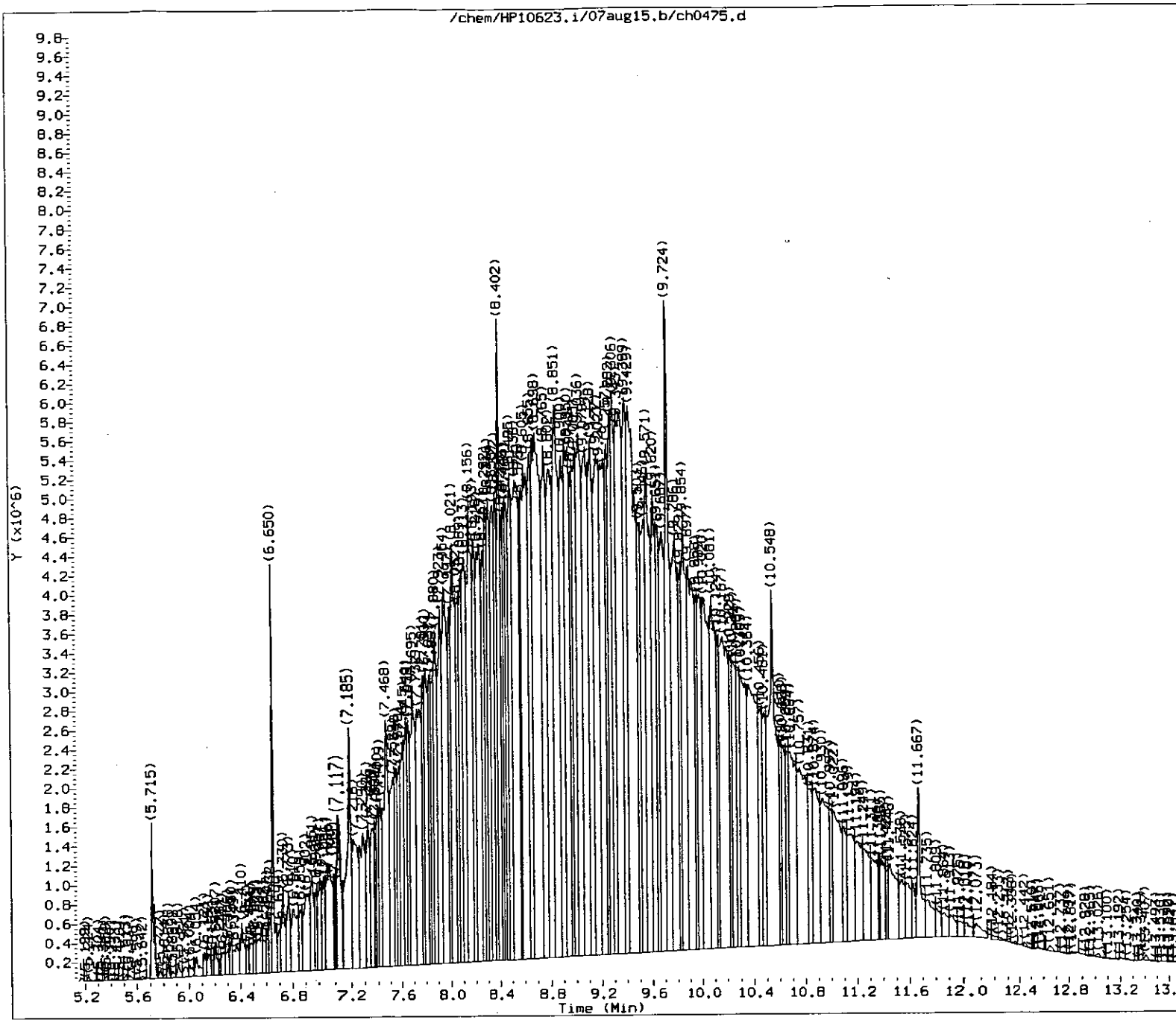
Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

0082

8/16/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

0003

8/16/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

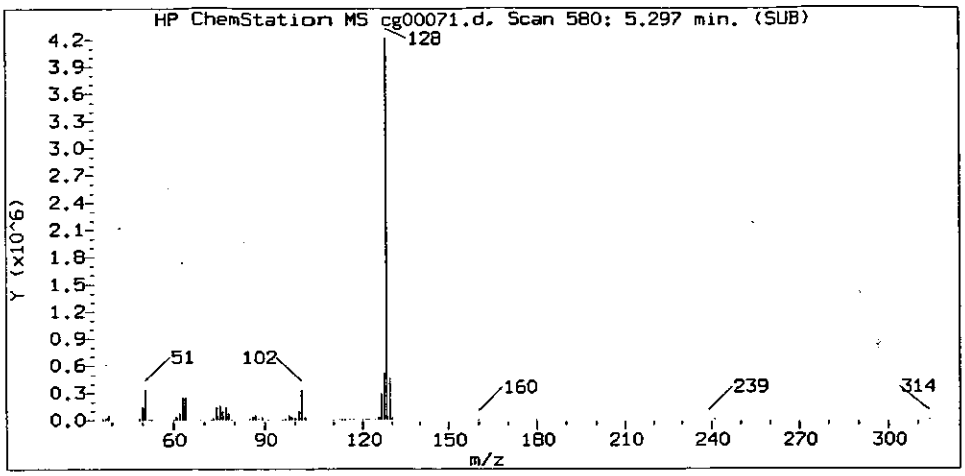
Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

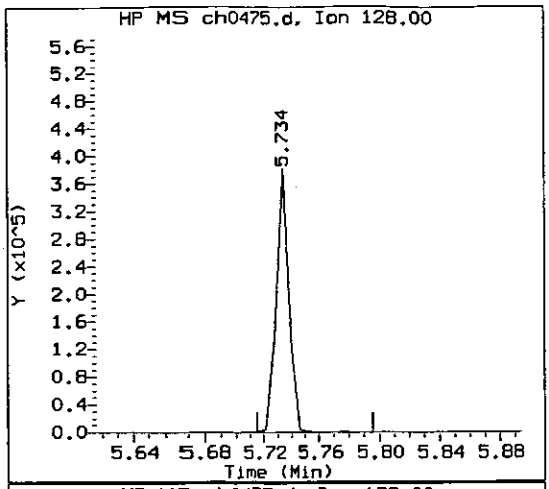
Sample Name: TP217 Lab Sample ID: 5118301

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.578	152	118074	40.0000
46)	Naphthalene-d8	(2)	5.715	136	500633	40.0000
47)	Naphthalene	(2)	5.734	128	239860	17.9377
80)	Acenaphthylene	(3)	7.068	152	106978	8.7543
82)	Acenaphthene-d10	(3)	7.185	164	296048	40.0000
94)	Fluorene	(3)	7.640	166	65067M	6.6550
120)	Phenanthrene-d10	(4)	8.402	188	463802	40.0000
121)	Phenanthrene	(4)	8.421	178	49834	4.0567
124)	Anthracene	(4)	8.464	178	74734	5.8496
134)	Fluoranthene	(4)	9.411	202	156182	11.3426
136)	Pyrene	(5)	9.571	202	166478	13.3137
146)	Benzo(a)anthracene	(5)	10.542	228	47573	4.1920
149)	Chrysene-d12	(5)	10.548	240	400519	40.0000
150)	Chrysene	(5)	10.567	228	54108	4.7053
158)	Benzo(b)fluoranthene	(6)	11.385	252	46433M	3.4991
159)	Benzo(k)fluoranthene	(6)	11.403	252	24207M	1.8037
160)	Benzo(a)pyrene	(6)	11.624	252	30479M	2.4756
161)	Perylene-d12	(6)	11.667	264	380821	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.442	276	23722	1.5288
170)	Benzo(g,h,i)perylene	(6)	12.651	276	23067	1.7497
35)	Nitrobenzene-d5	(2)	5.094	82	359399	79.6813
66)	2-Fluorobiphenyl	(3)	6.650	172	808506	90.1591
138)	Terphenyl-d14	(5)	9.724	244	782562	94.7078

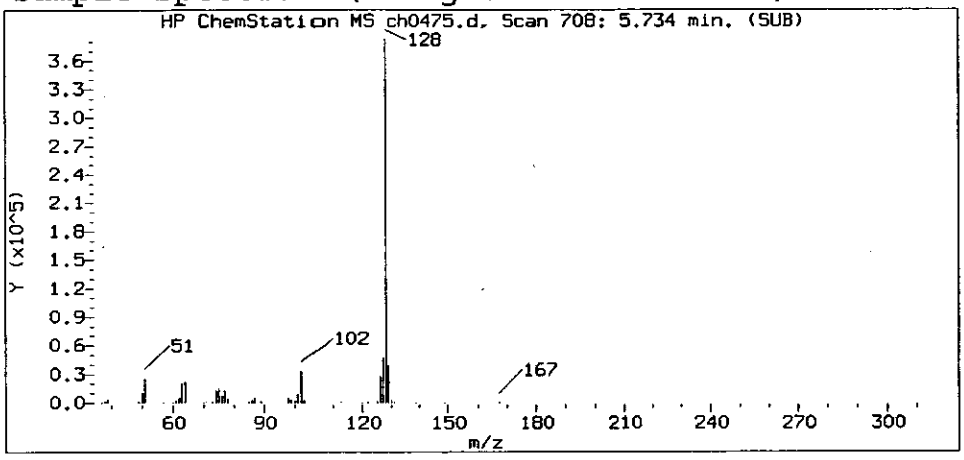
M = Compound was manually integrated. A = User selected an alternate hi

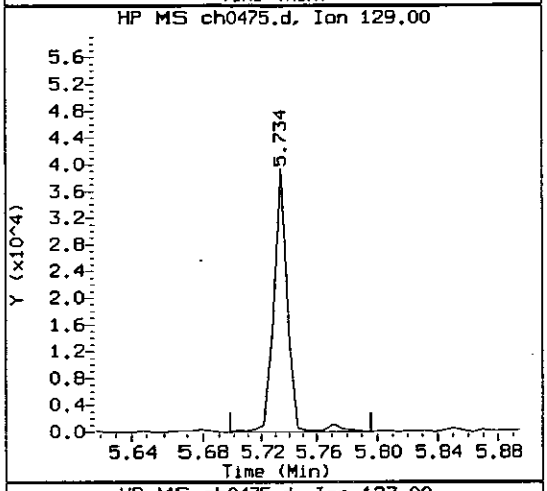
Reference Standard Spectrum for Naphthalene



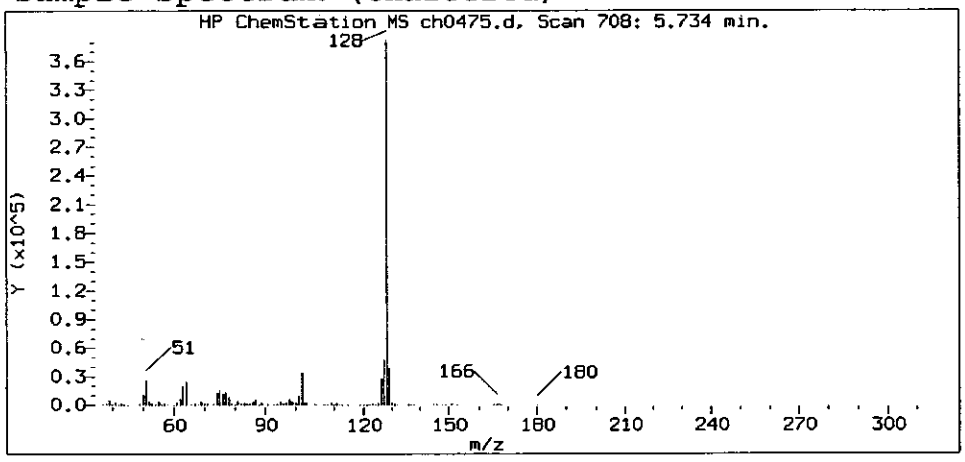


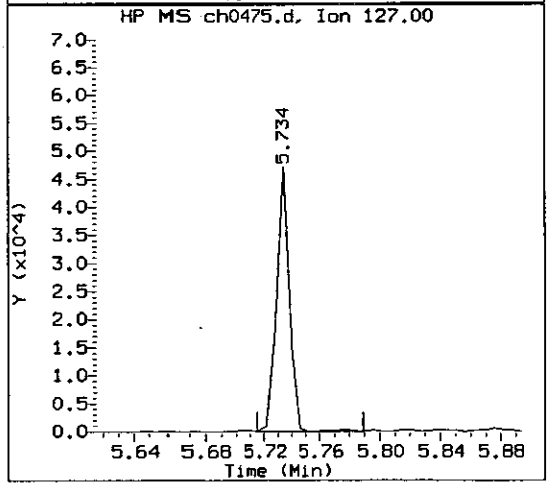
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

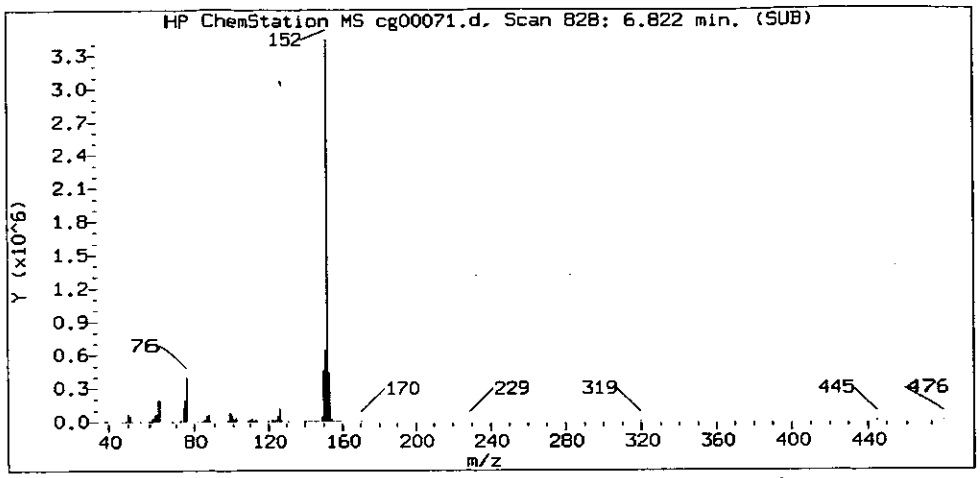
Sample Name: TP217

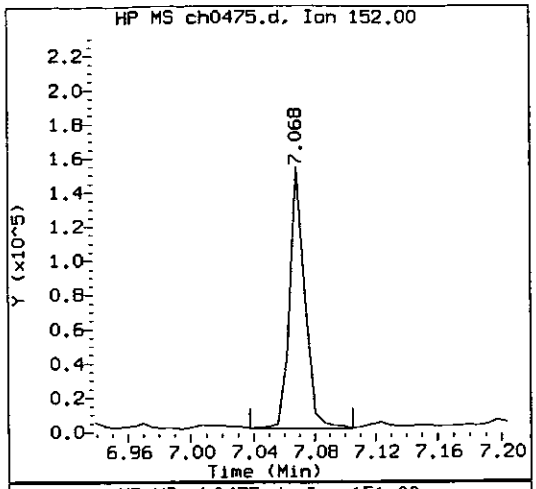
Lab Sample ID: 5118301

Compound Number	: 47
Compound Name	: Naphthalene
Scan Number	: 708
Retention Time (minutes)	: 5.734
Quant Ion	: 128.0
Area (flag)	: 239860
Concentration (ng/ul)	: 17.9377

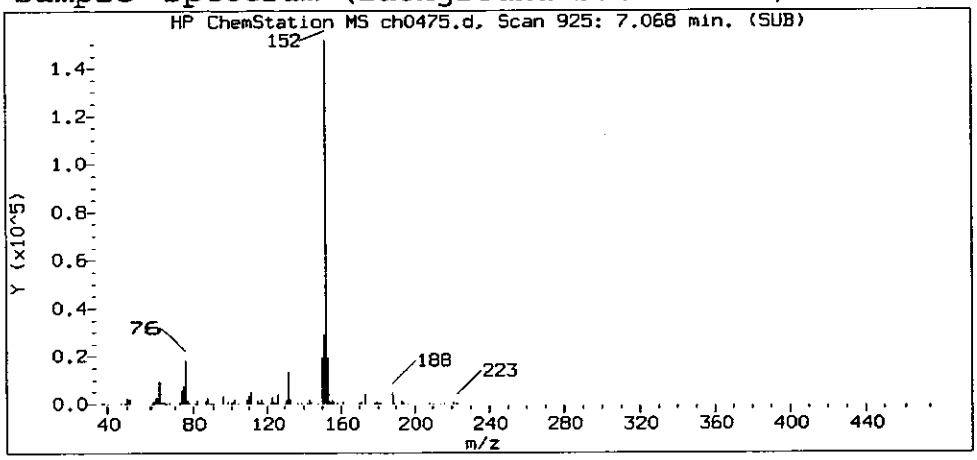
8085

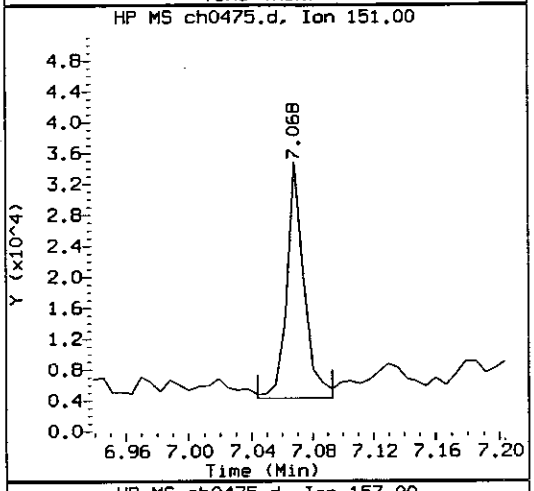
Reference Standard Spectrum for Acenaphthylene



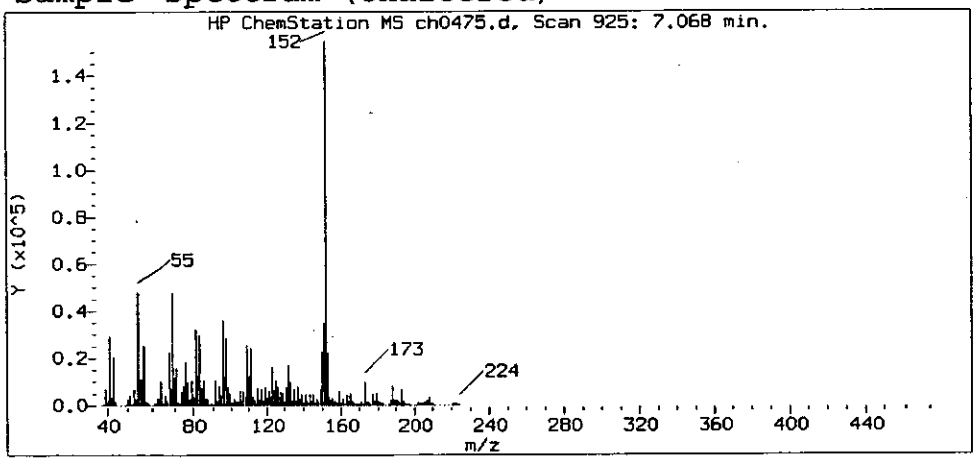


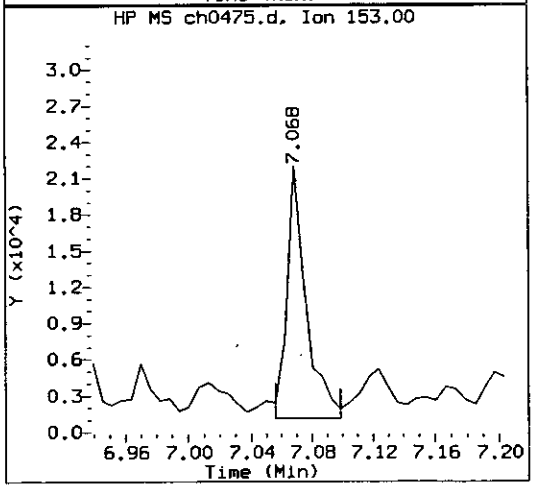
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

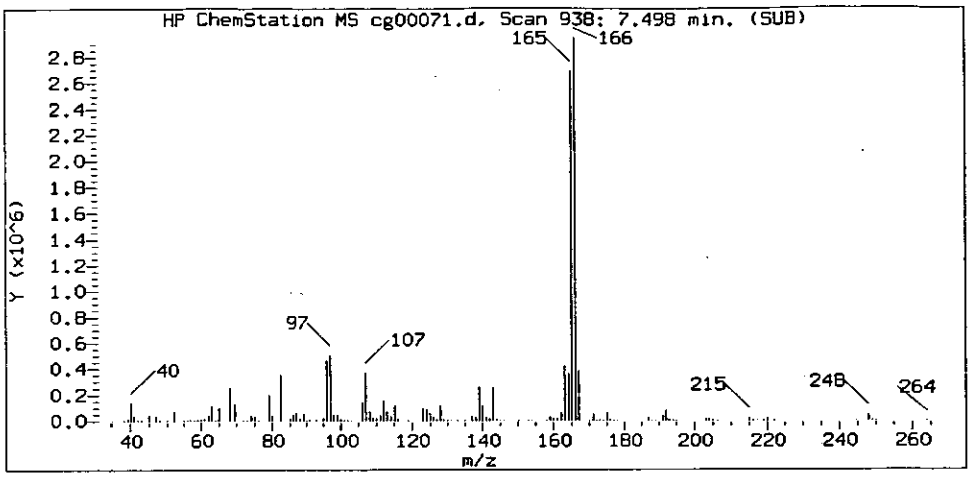
Sample Name: TP217

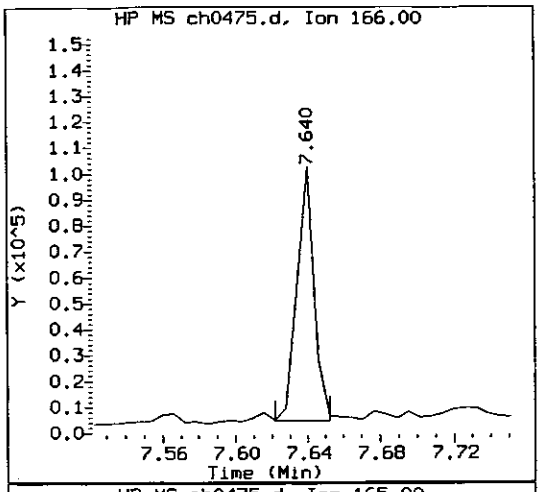
Lab Sample ID: 5118301

Compound Number	: 80
Compound Name	: Acenaphthylene
Scan Number	: 925
Retention Time (minutes)	: 7.068
Quant Ion	: 152.0
Area (flag)	: 106978
Concentration (ng/ul)	: 8.7543

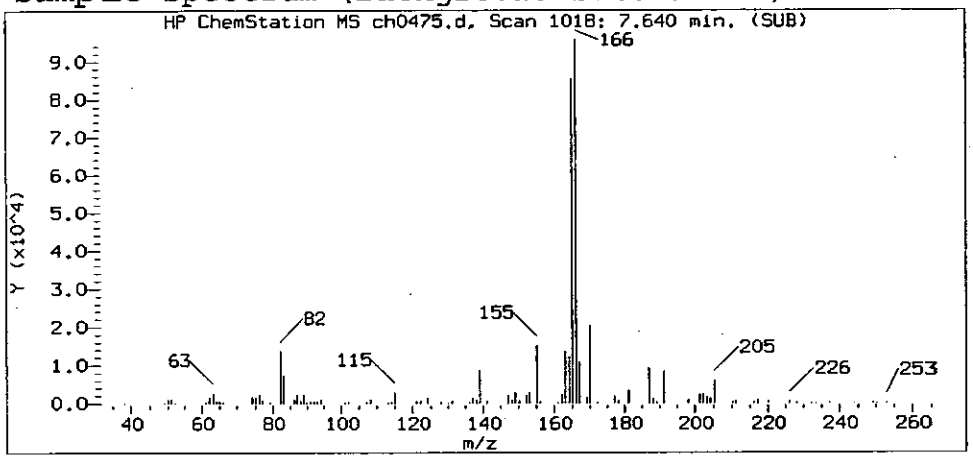
0886

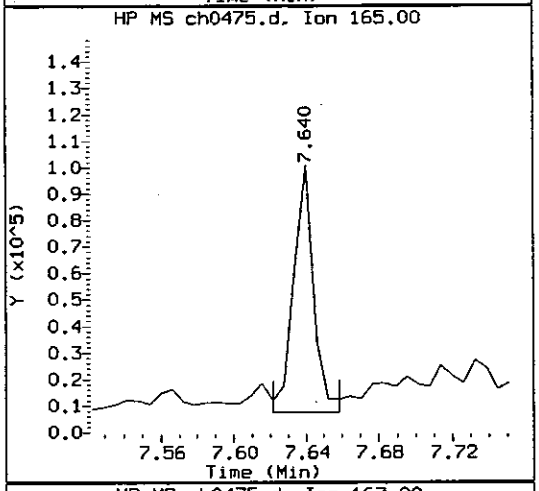
Reference Standard Spectrum for Fluorene



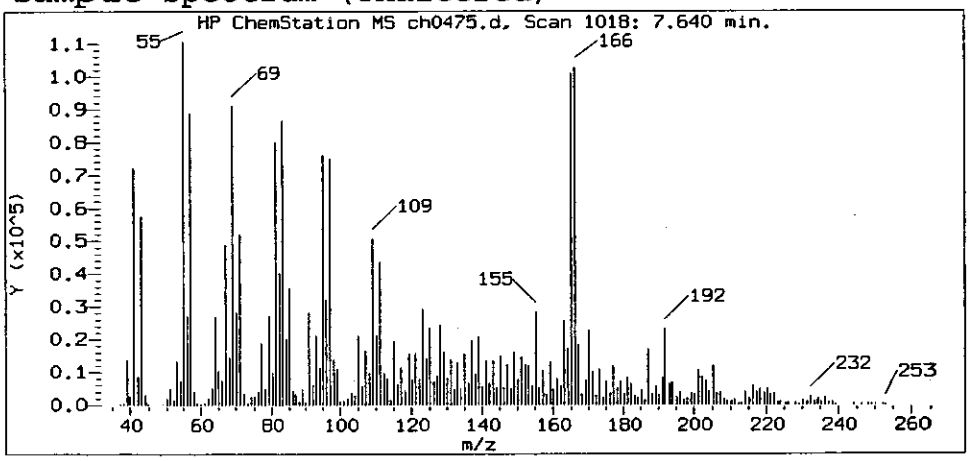


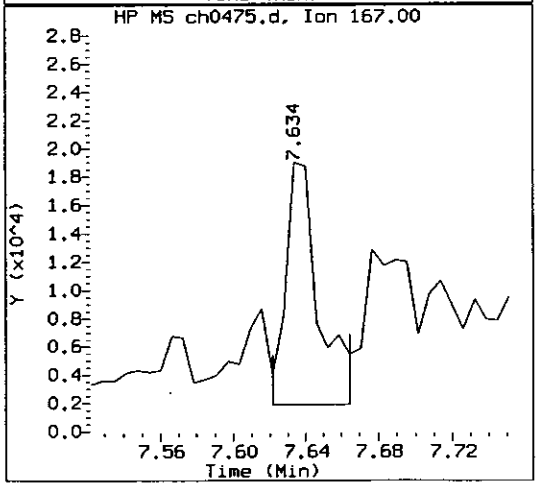
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

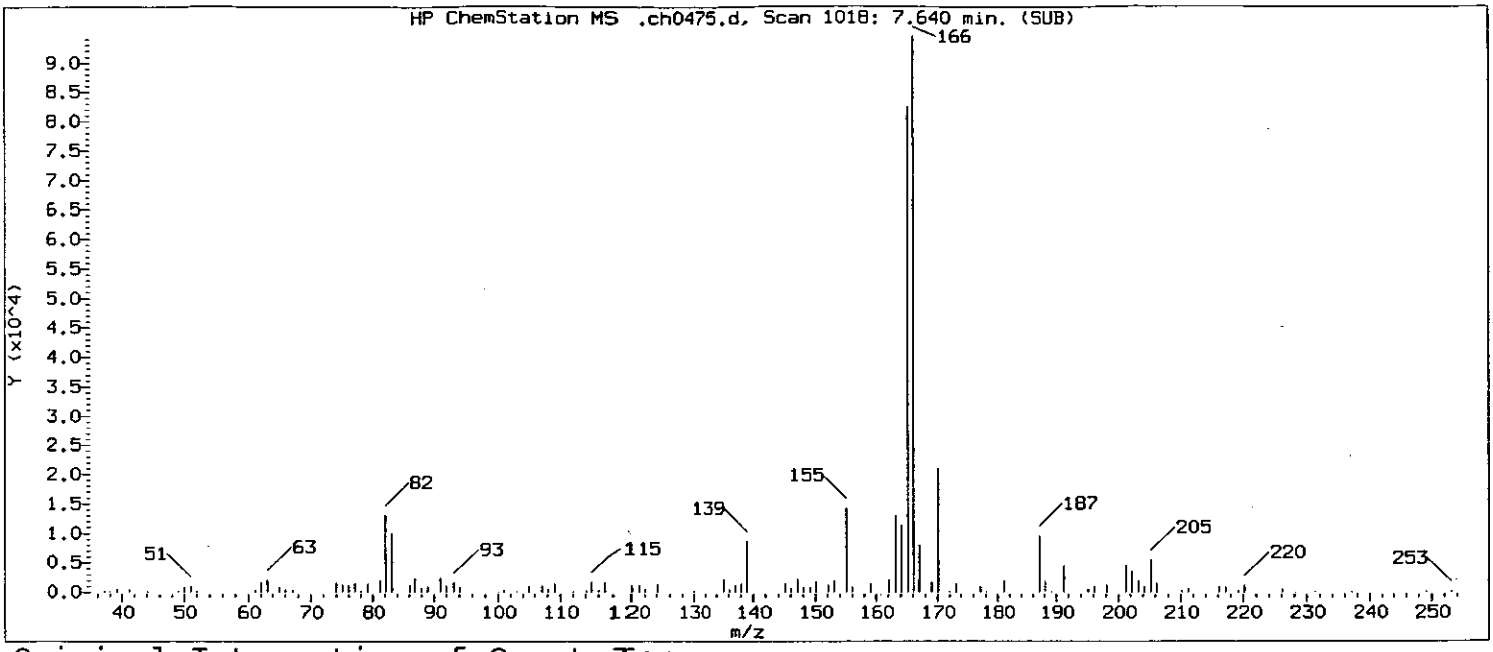
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217

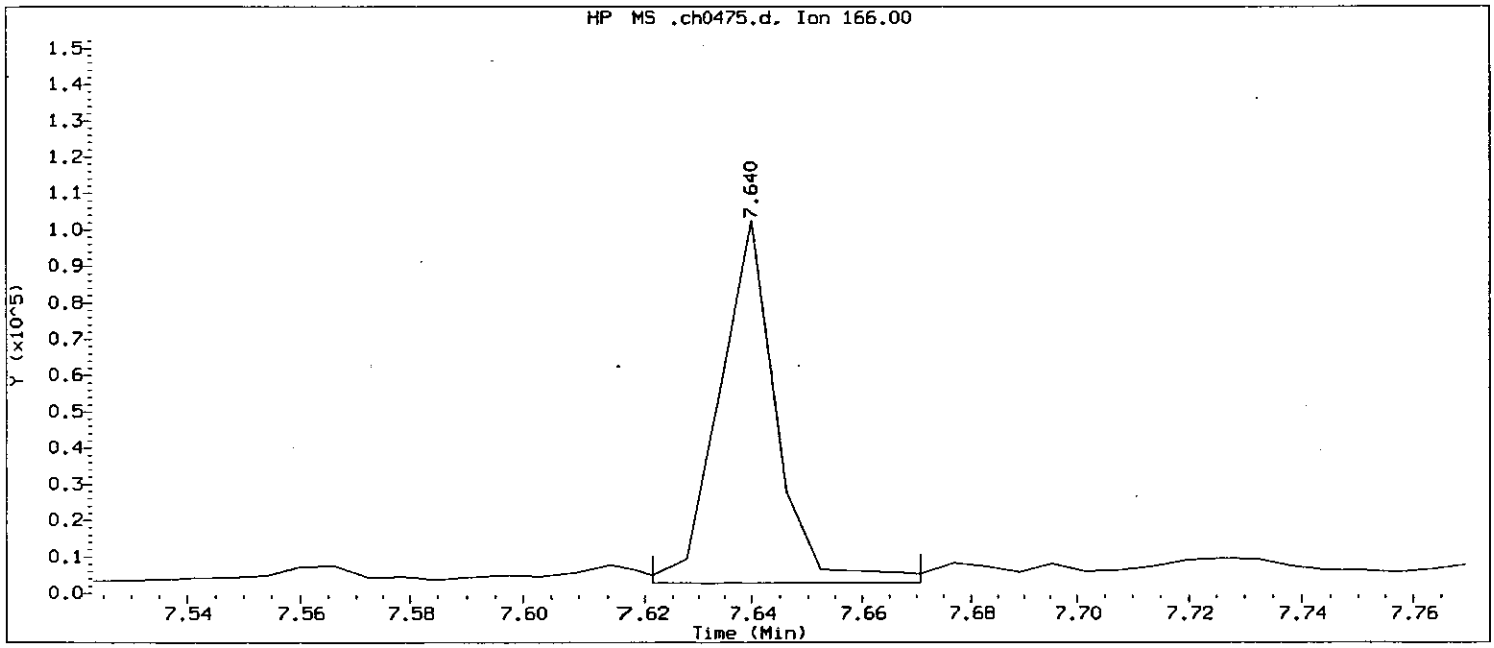
Lab Sample ID: 5118301

Compound Number	: 94
Compound Name	: Fluorene
Scan Number	: 1018
Retention Time (minutes)	: 7.640
Quant Ion	: 166.0
Area (flag)	: 65067 M
Concentration (ng/ul)	: 6.6550

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:34 Automation

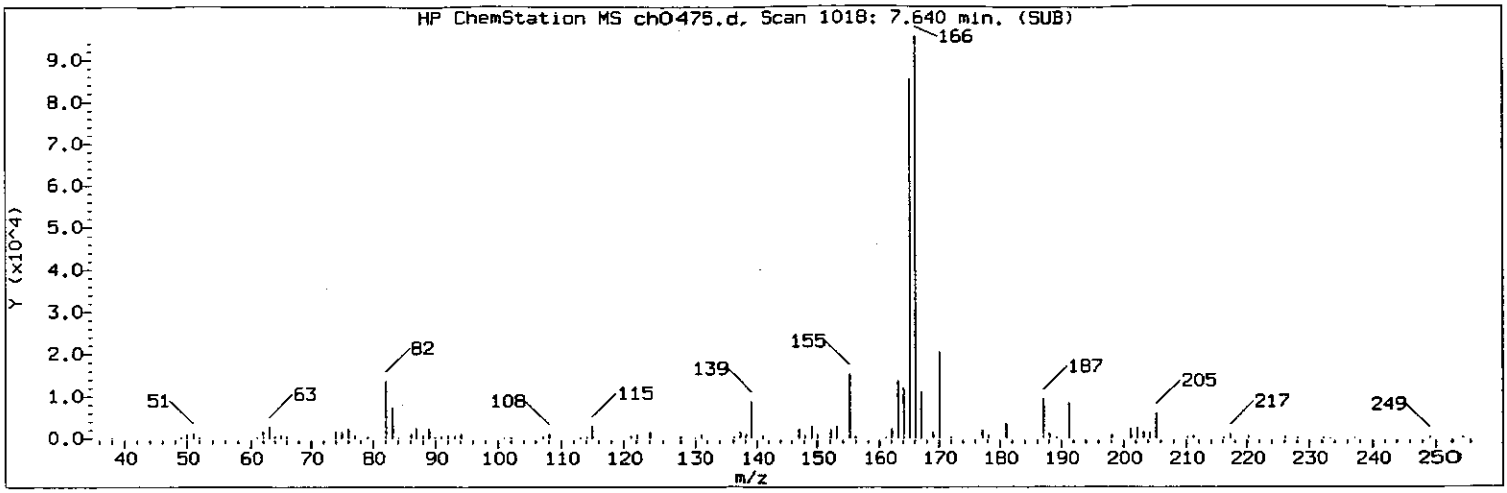
Sample Name: TP217 Lab Sample ID: 5118301

Compound Number	:	94
Compound Name	:	Fluorene
Scan Number	:	1018
Retention Time (minutes)	:	7.640
Quant Ion	:	166
Area	:	71930
Concentration (ng/ul)	:	7.3569
Integration start scan	:	1014
Y at integration start	:	2803

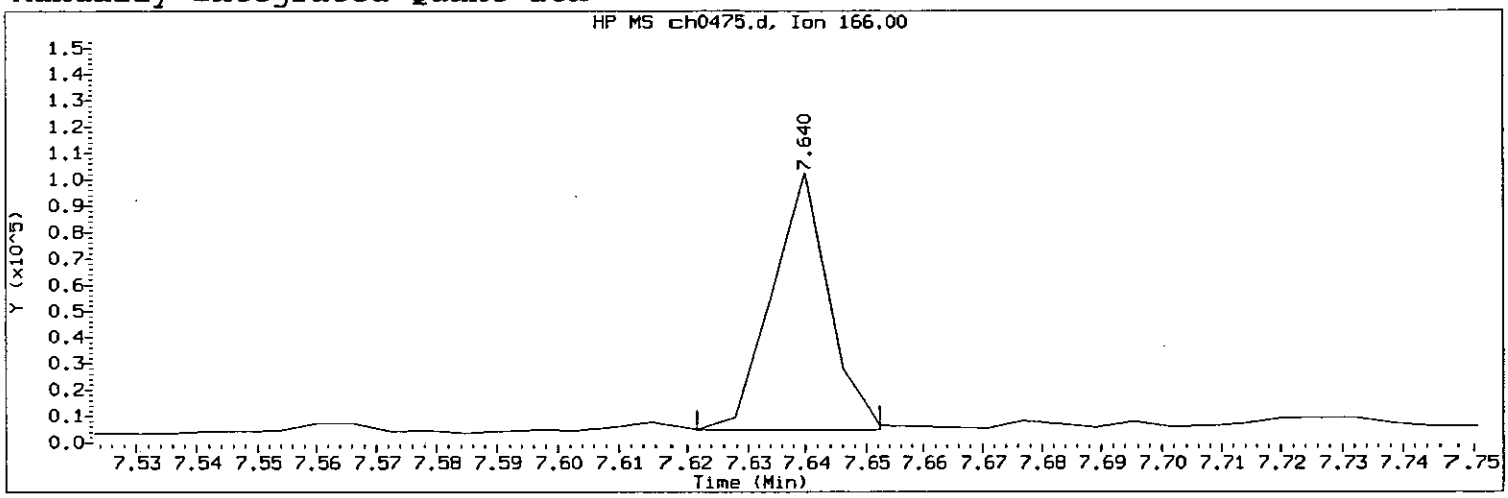
Integration stop scan: 1022
Y at integration end: 2803

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0475.d, generated on 08/16/2007 at 00:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

Compound Number : 94
Compound Name : Fluorene
Scan Number : 1018
Retention Time (minutes): 7.640
Quant Ion : 166
Area (flag) : 65067 M
Concentration (ng/ul) : 6.6550
Integration start scan : 1014 Integration stop scan: 1019
Y at integration start : 4809 Y at integration end: 4809

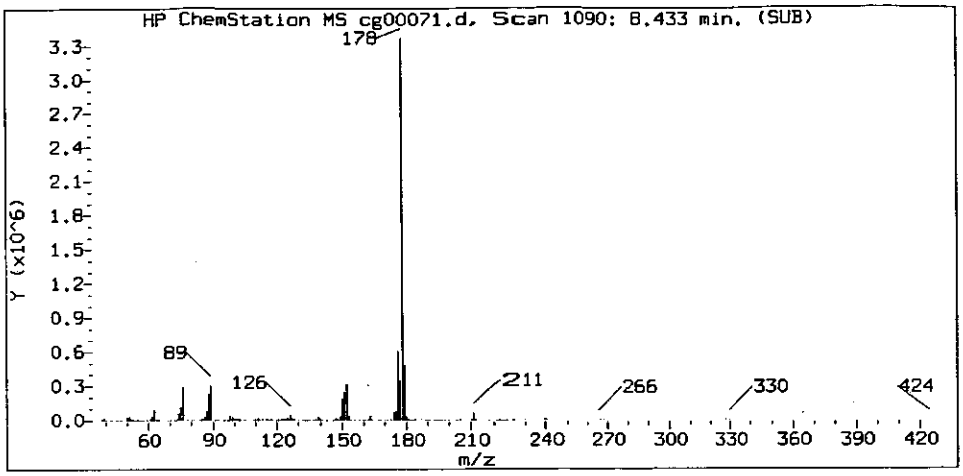
Reason for manual integration (circle one): missed peak improper integratio

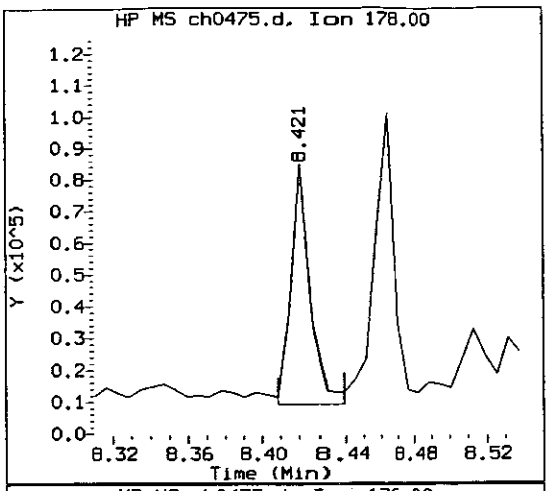
Analyst responsible for change: lmh956 08/16/07

GC/MS audit/management approval: [illegible] 8/16/07

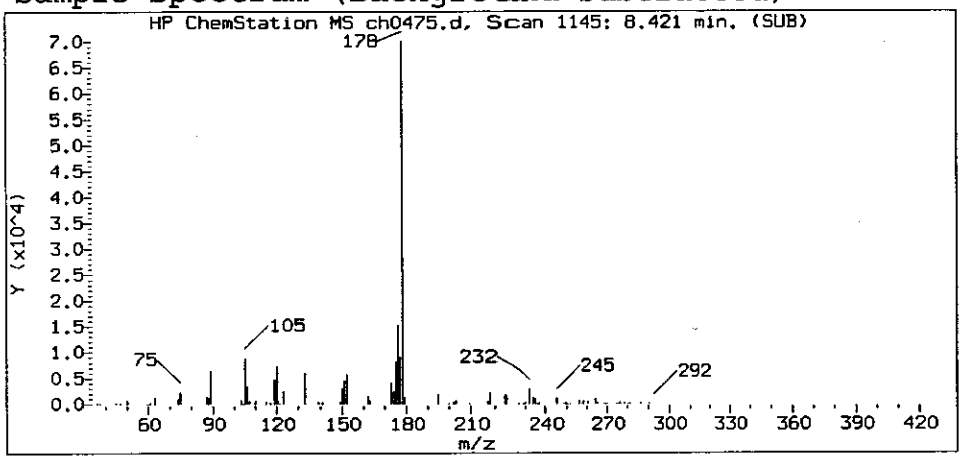
Manual Integration Report for data file /chem/HP10623.i/07aug15.b/ch0475.d, generated on 08/16/2007 at 00:54

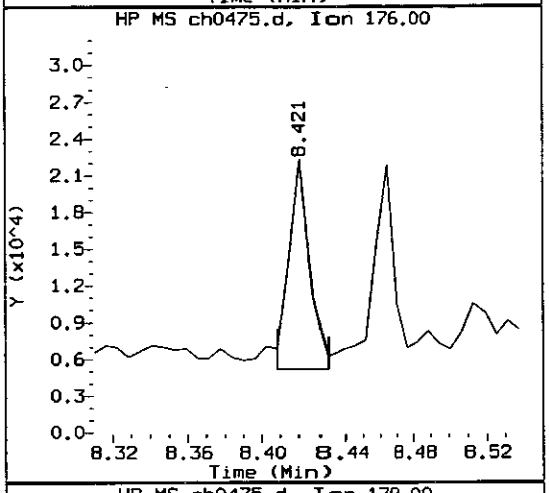
Reference Standard Spectrum for Phenanthrene



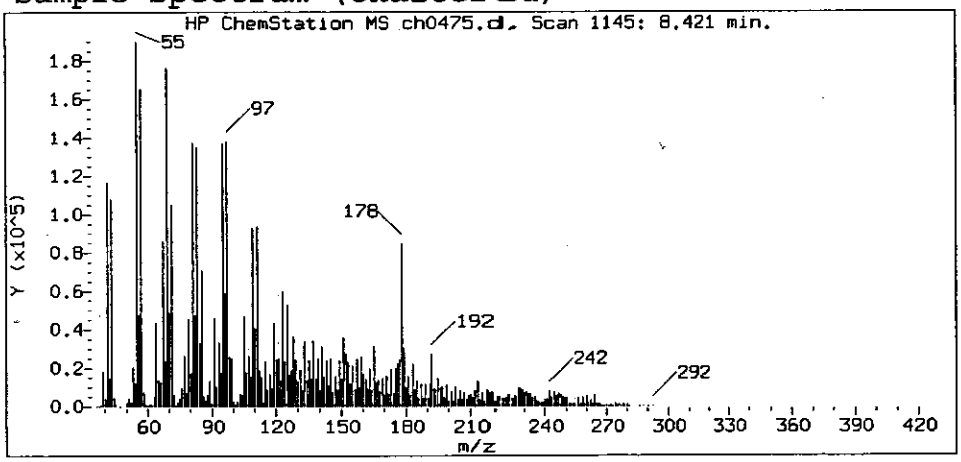


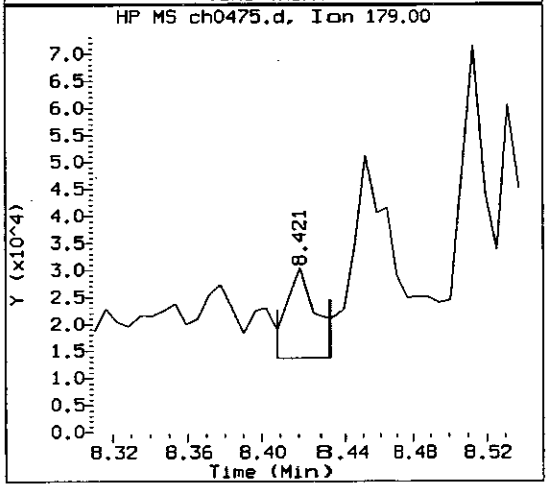
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

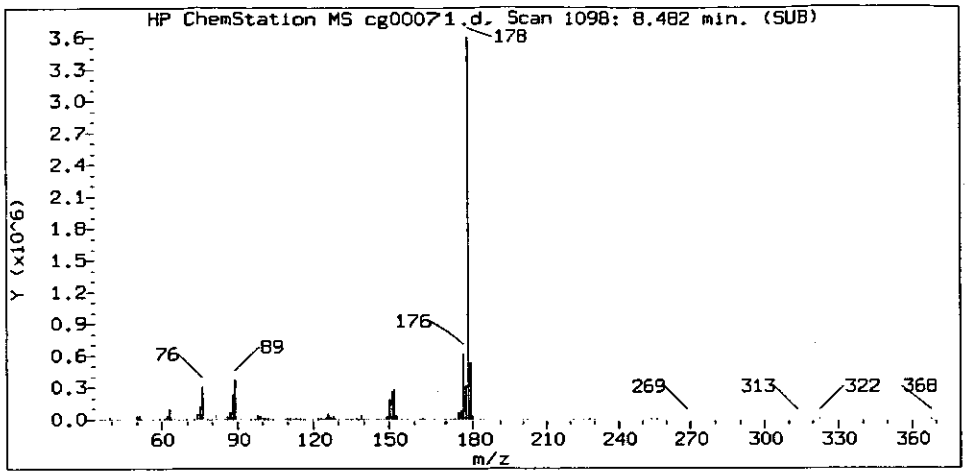
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

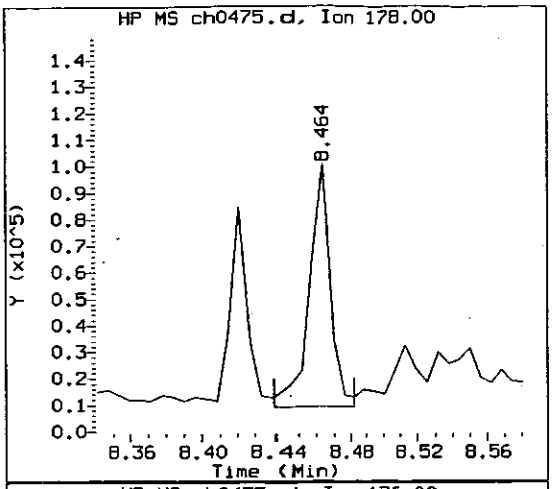
Sample Name: TP217

Lab Sample ID: 5118301

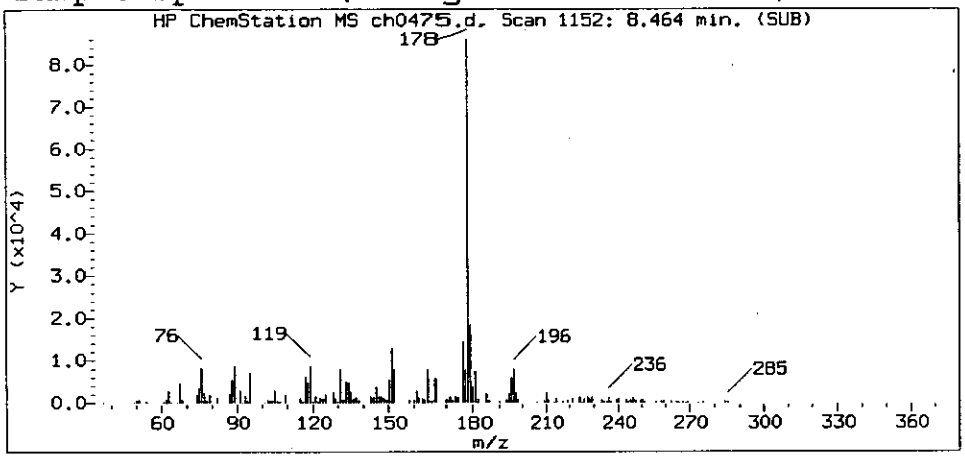
Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1145
Retention Time (minutes)	: 8.421
Quant Ion	: 178.0
Area (flag)	: 49834
Concentration (ng/ul)	: 4.0567

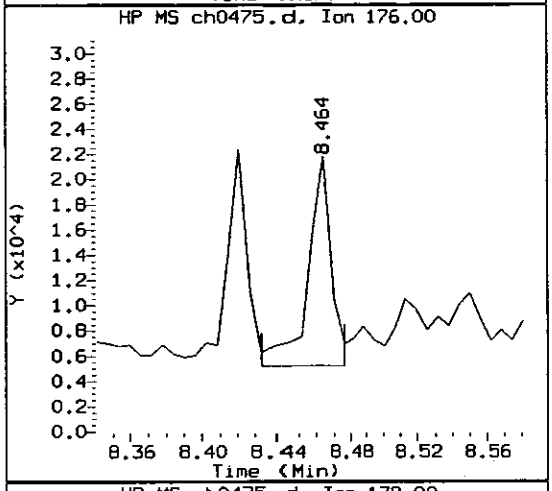
Reference Standard Spectrum for Anthracene



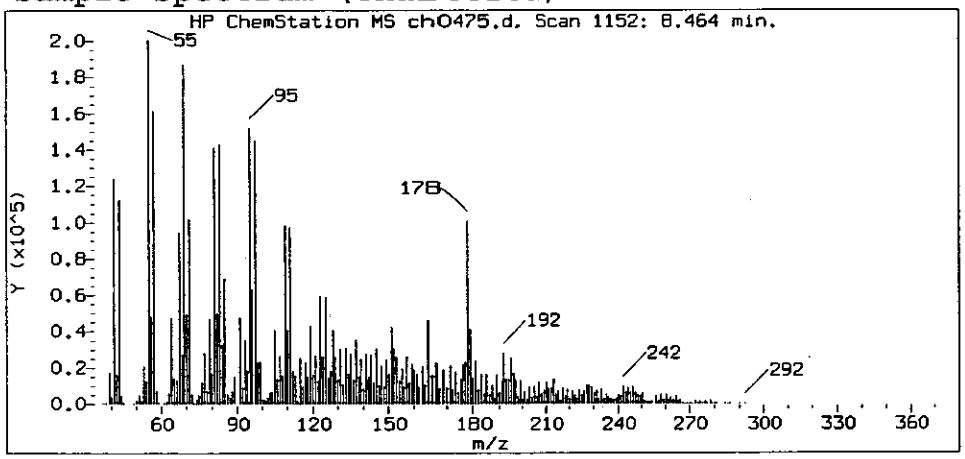


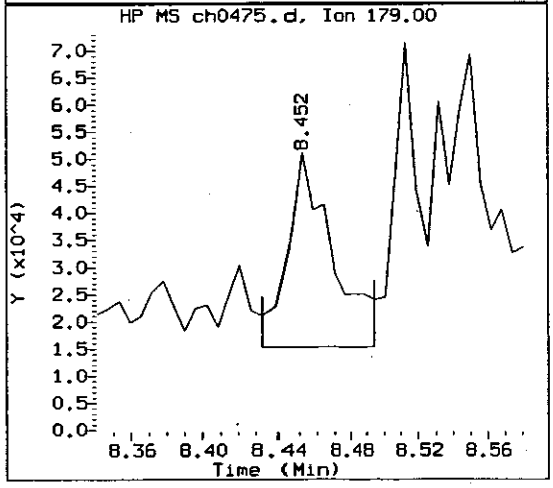
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

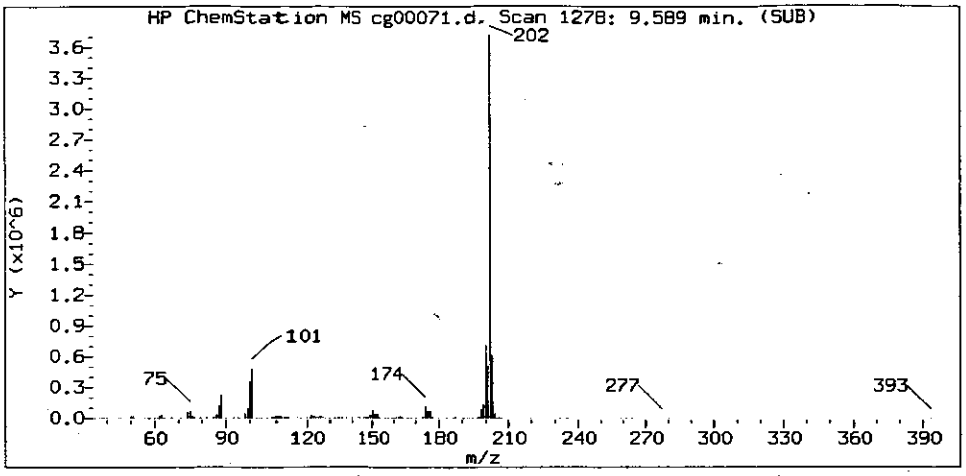
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

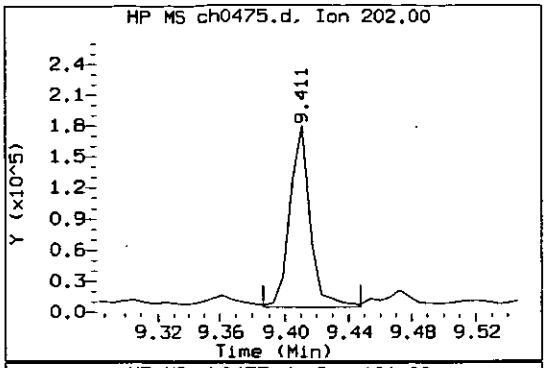
Sample Name: TP217

Lab Sample ID: 5118301

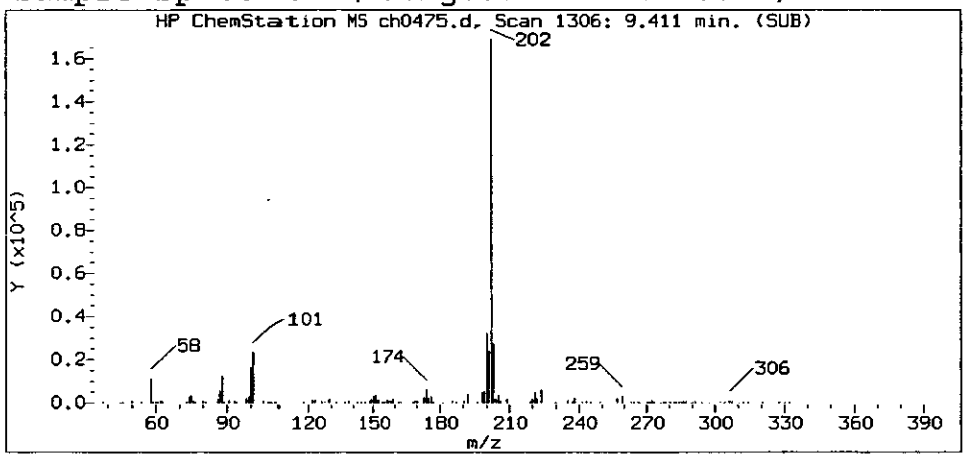
Compound Number	: 124
Compound Name	: Anthracene
Scan Number	: 1152
Retention Time (minutes)	: 8.464
Quant Ion	: 178.0
Area (flag)	: 74734
Concentration (ng/ul)	: 5.8496

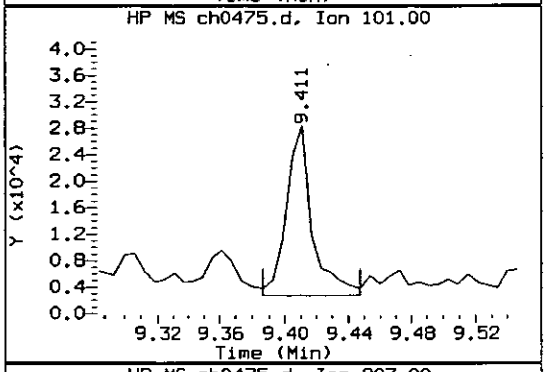
Reference Standard Spectrum for Fluoranthene

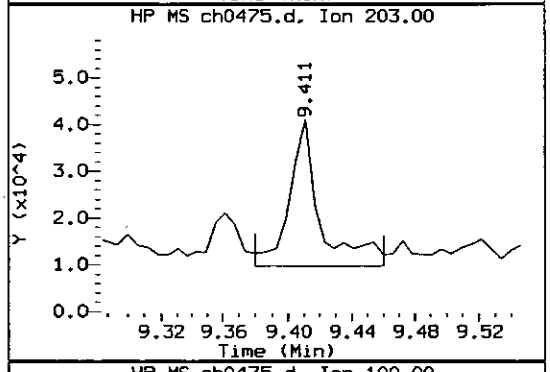




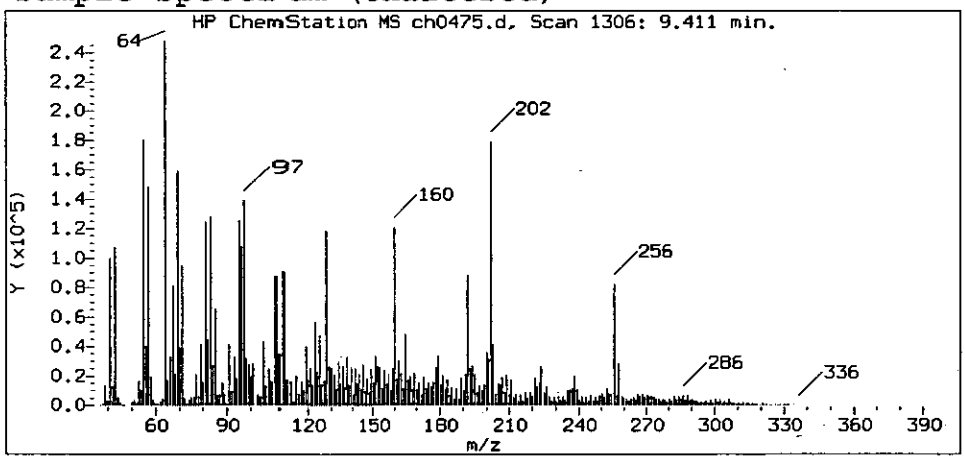
Sample Spectrum (Background Subtracted)

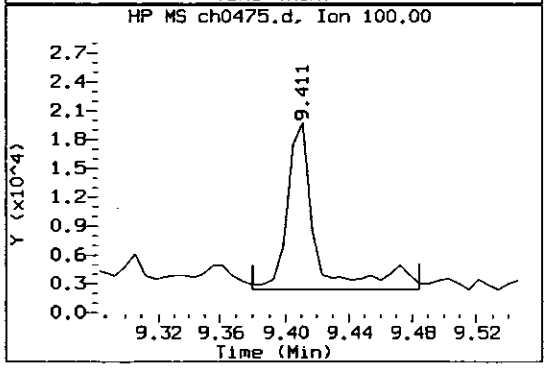






Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

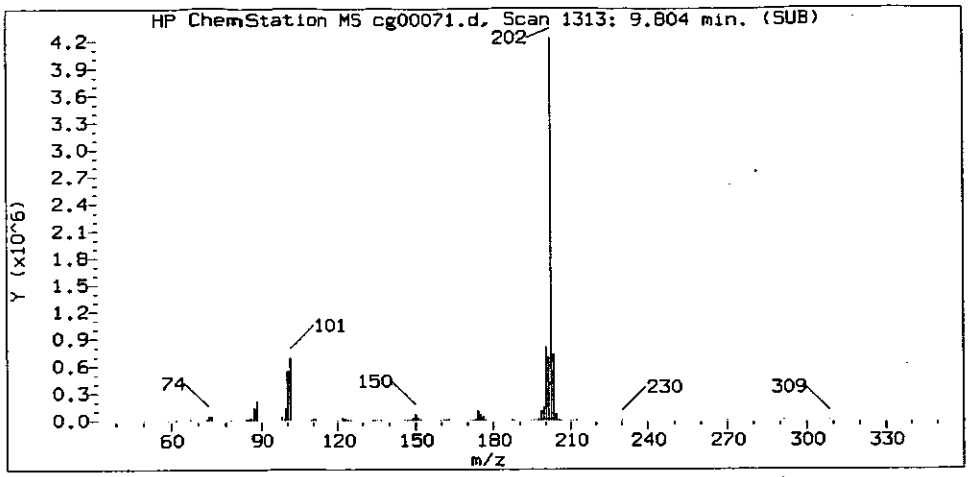
Sample Name: TP217

Lab Sample ID: 5118301

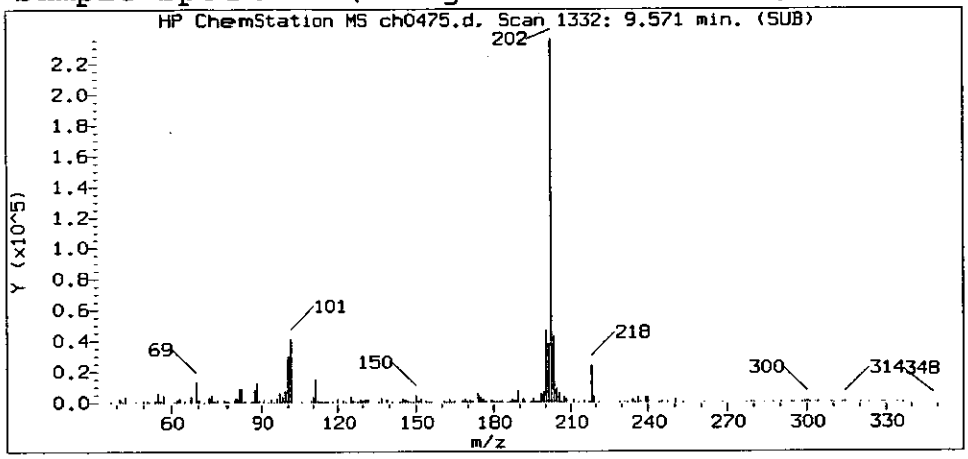
Compound Number	: 134
Compound Name	: Fluoranthene
Scan Number	: 1306
Retention Time (minutes)	: 9.411
Quant Ion	: 202.0
Area (flag)	: 156182
Concentration (ng/ul)	: 11.3426

0092

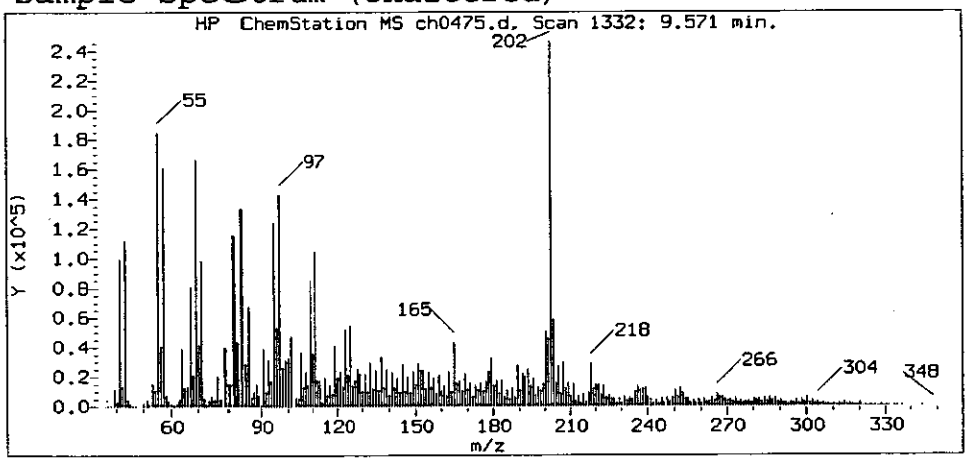
Reference Standard Spectrum for Pyrene

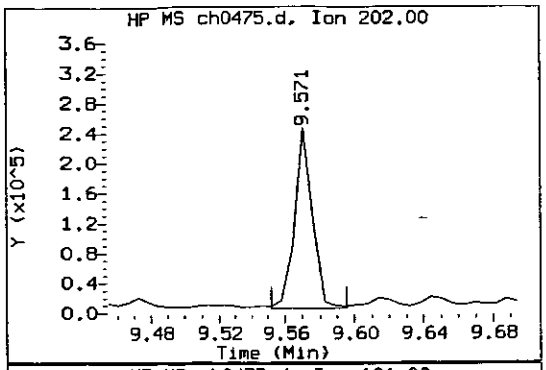


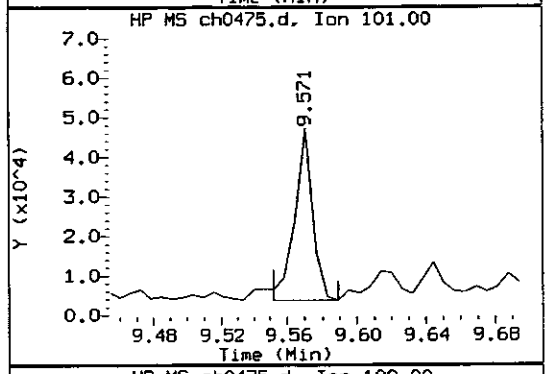
Sample Spectrum (Background Subtracted)

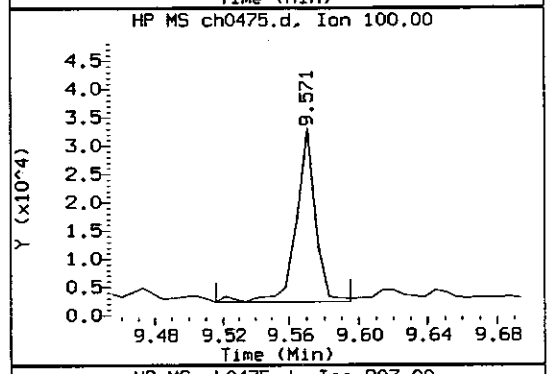


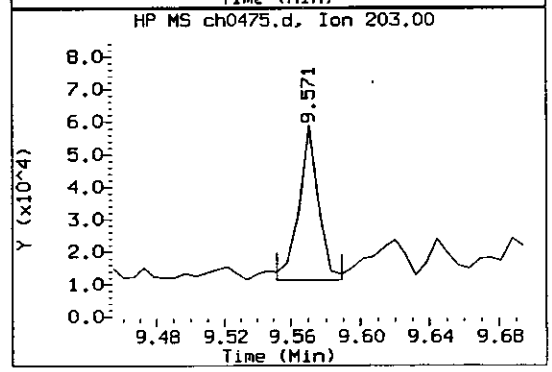
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

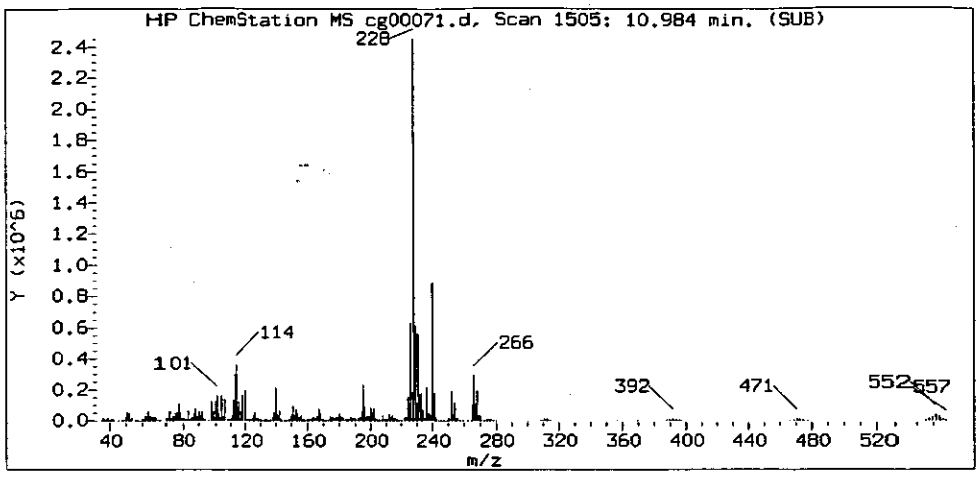
Sample Name: TP217

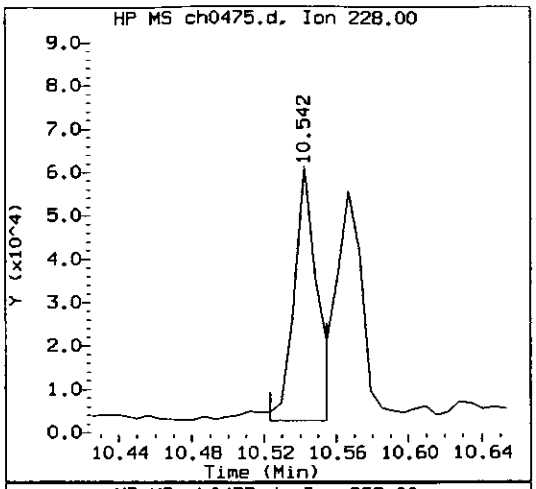
Lab Sample ID: 5118301

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1332
Retention Time (minutes)	: 9.571
Quant Ion	: 202.0
Area (flag)	: 166478
Concentration (ng/ul)	: 13.3137

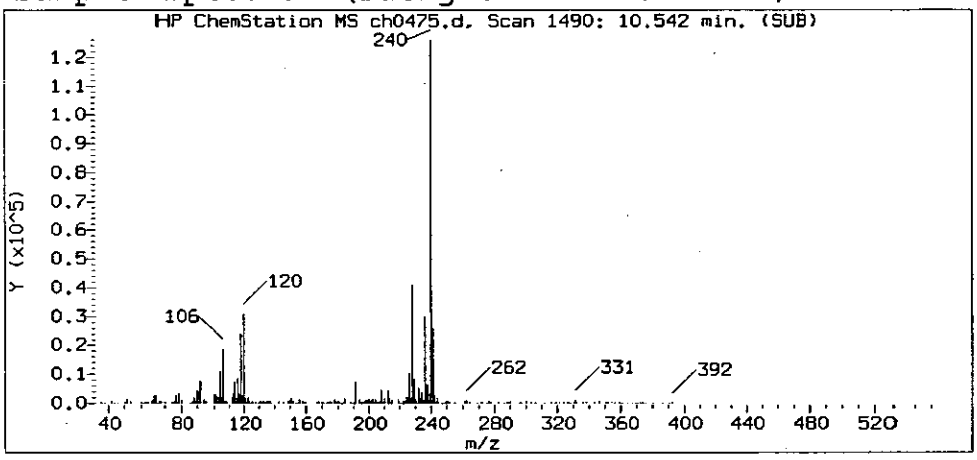
0893

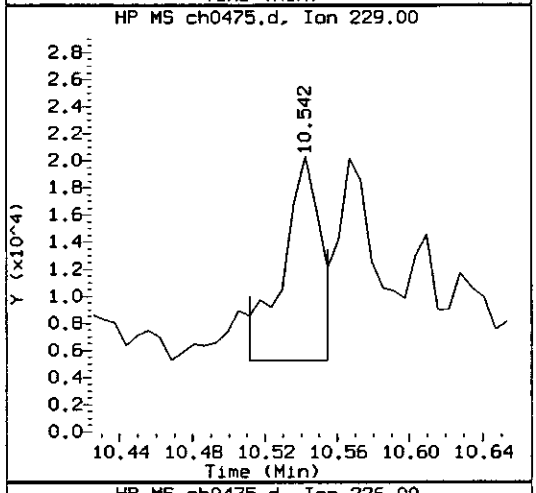
Reference Standard Spectrum for Benzo(a)anthracene



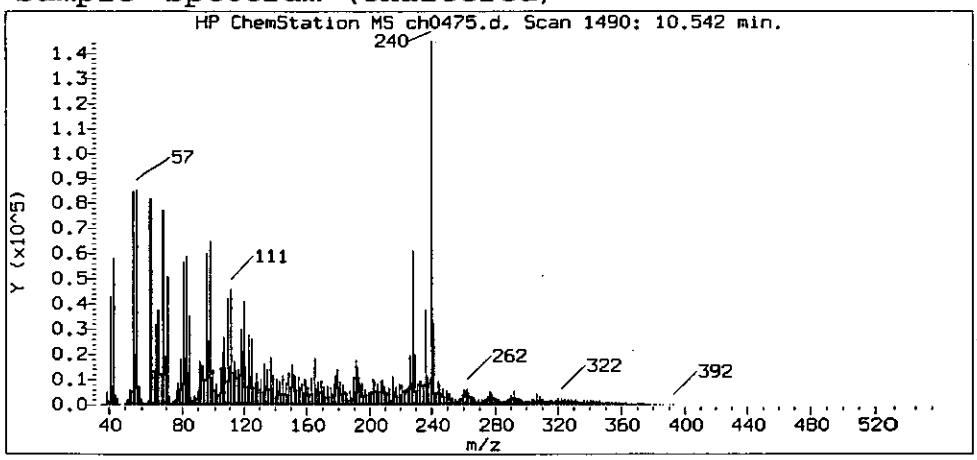


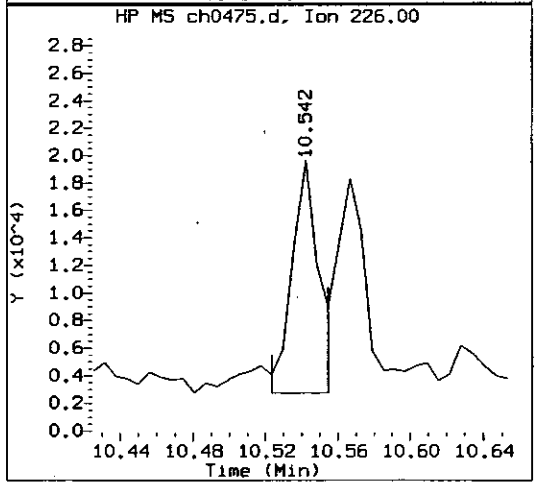
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

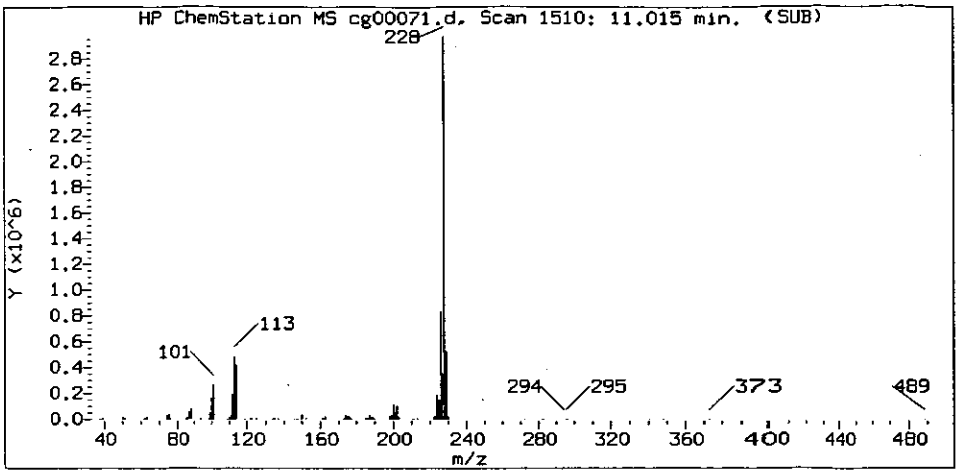
Sample Name: TP217

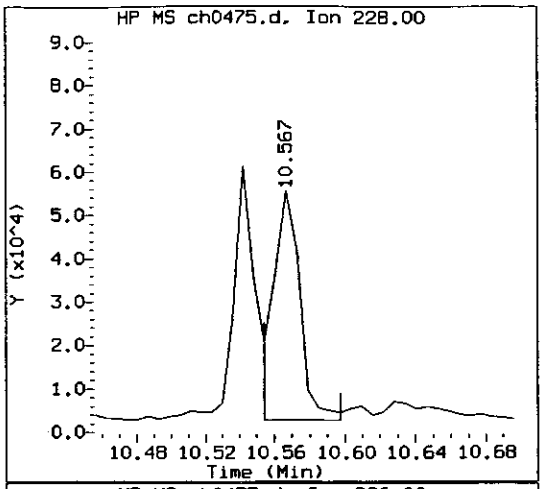
Lab Sample ID: 5118301

Compound Number : 146
Compound Name : Benzo(a)anthracene
Scan Number : 1490
Retention Time (minutes): 10.542
Quant Ion : 228.0
Area (flag) : 47573
Concentration (ng/ul) : 4.1920

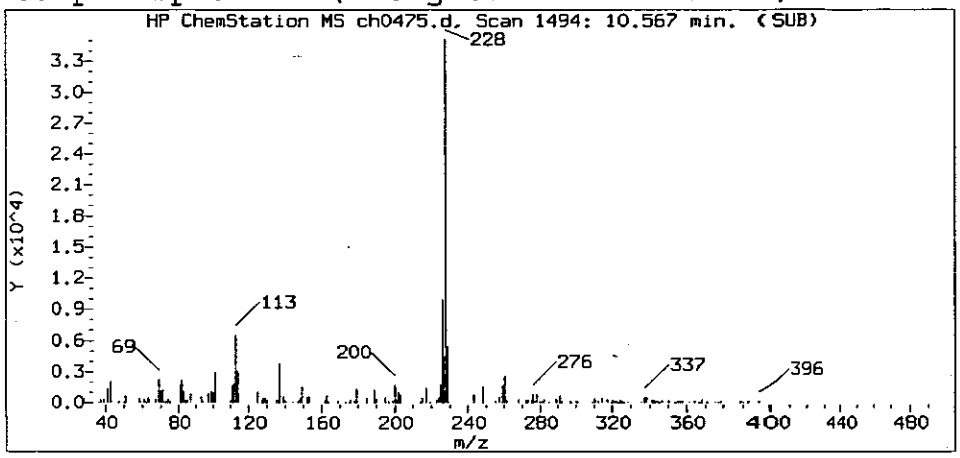
6894

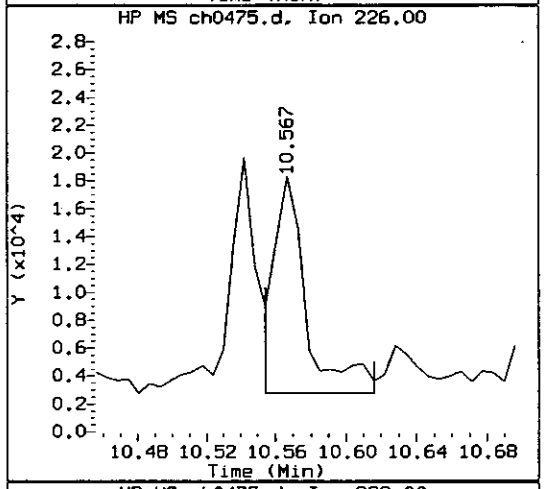
Reference Standard Spectrum for Chrysene



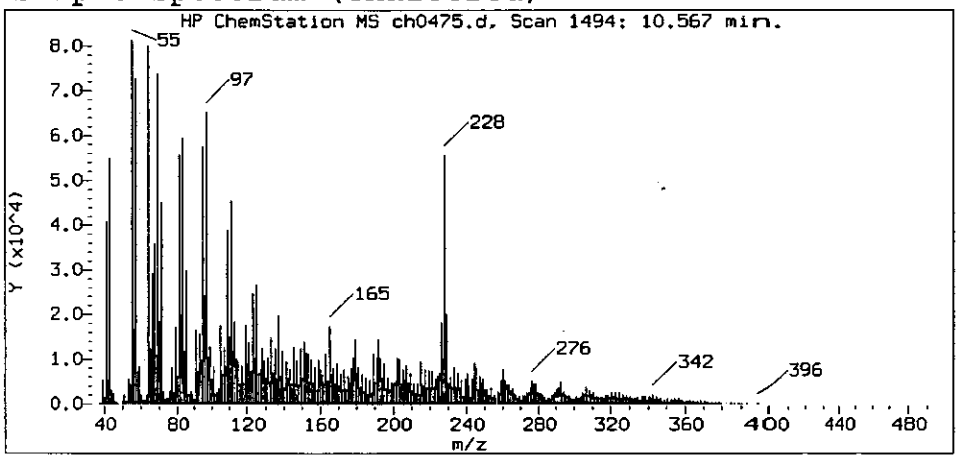


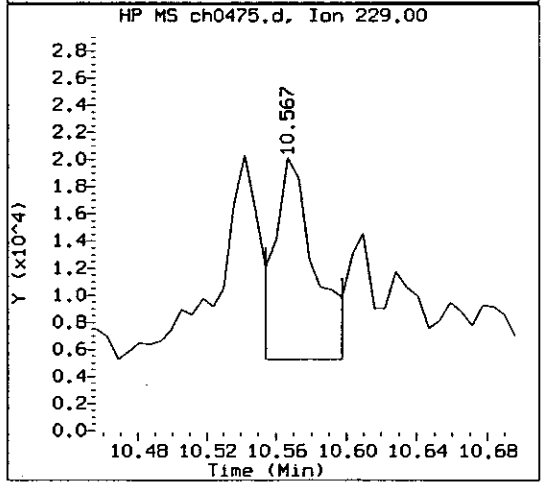
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

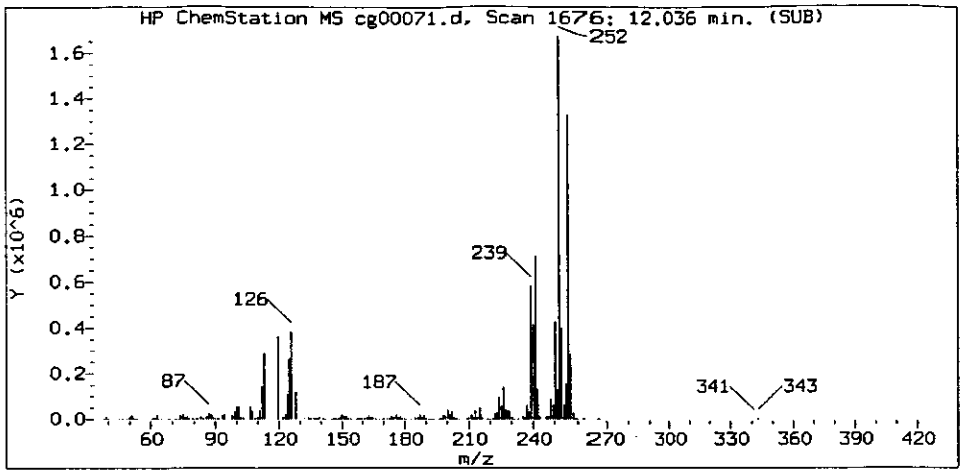
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

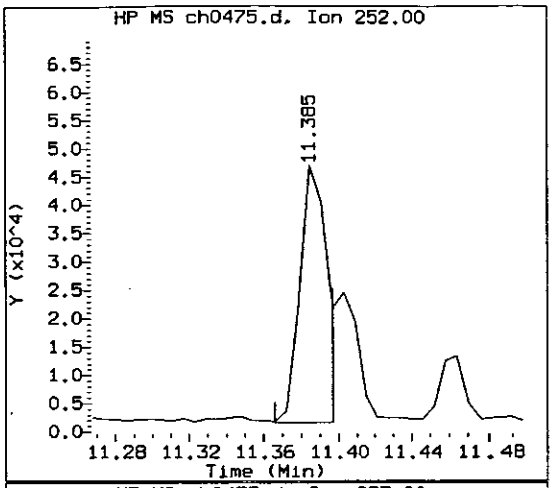
Sample Name: TP217

Lab Sample ID: 5118301

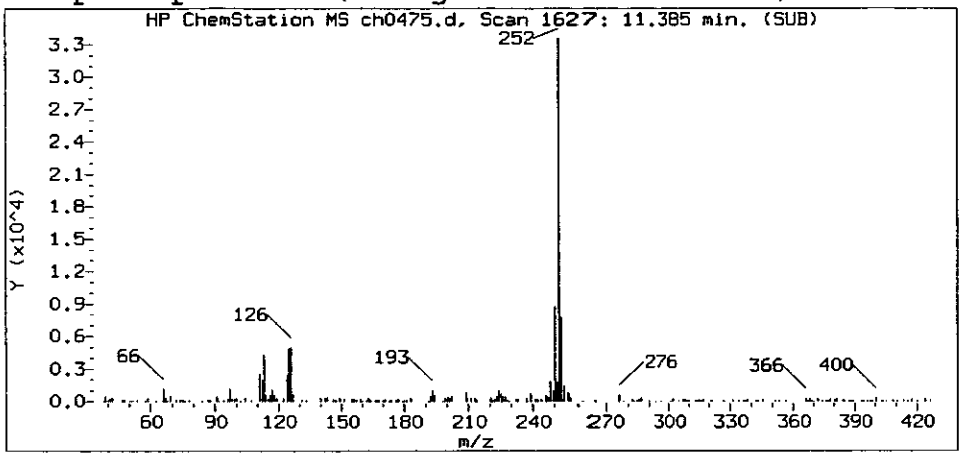
Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1494
Retention Time (minutes)	: 10.567
Quant Ion	: 228.0
Area (flag)	: 54108
Concentration (ng/ul)	: 4.7053

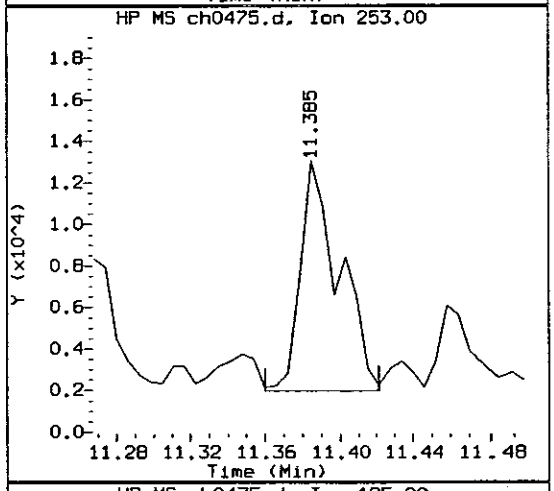
Reference Standard Spectrum for Benzo(b)fluoranthene



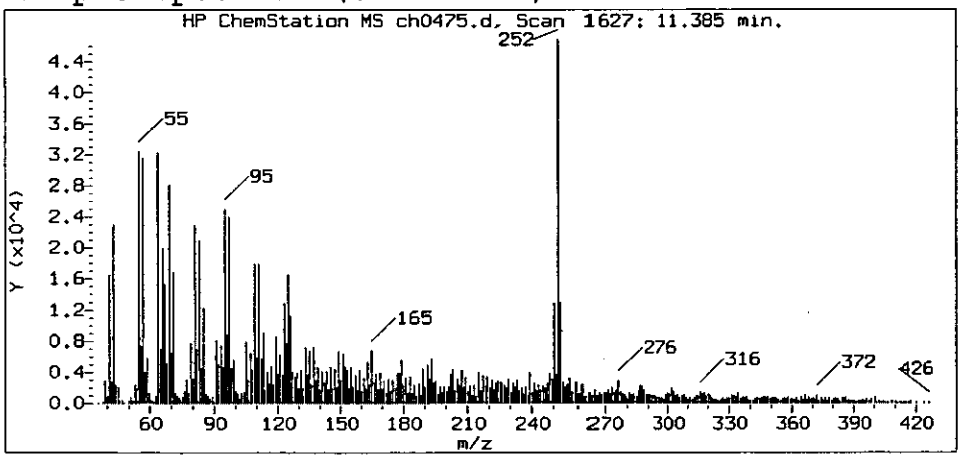


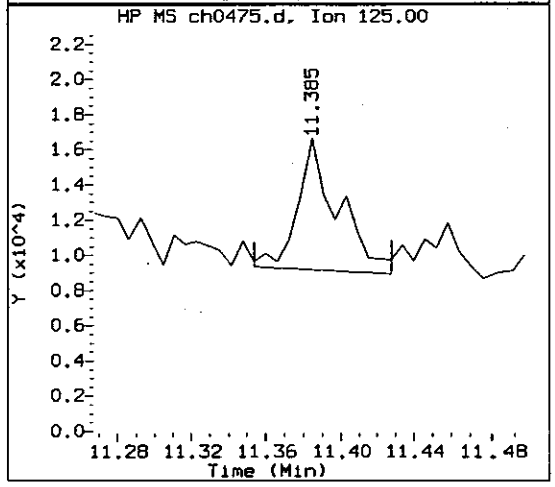
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

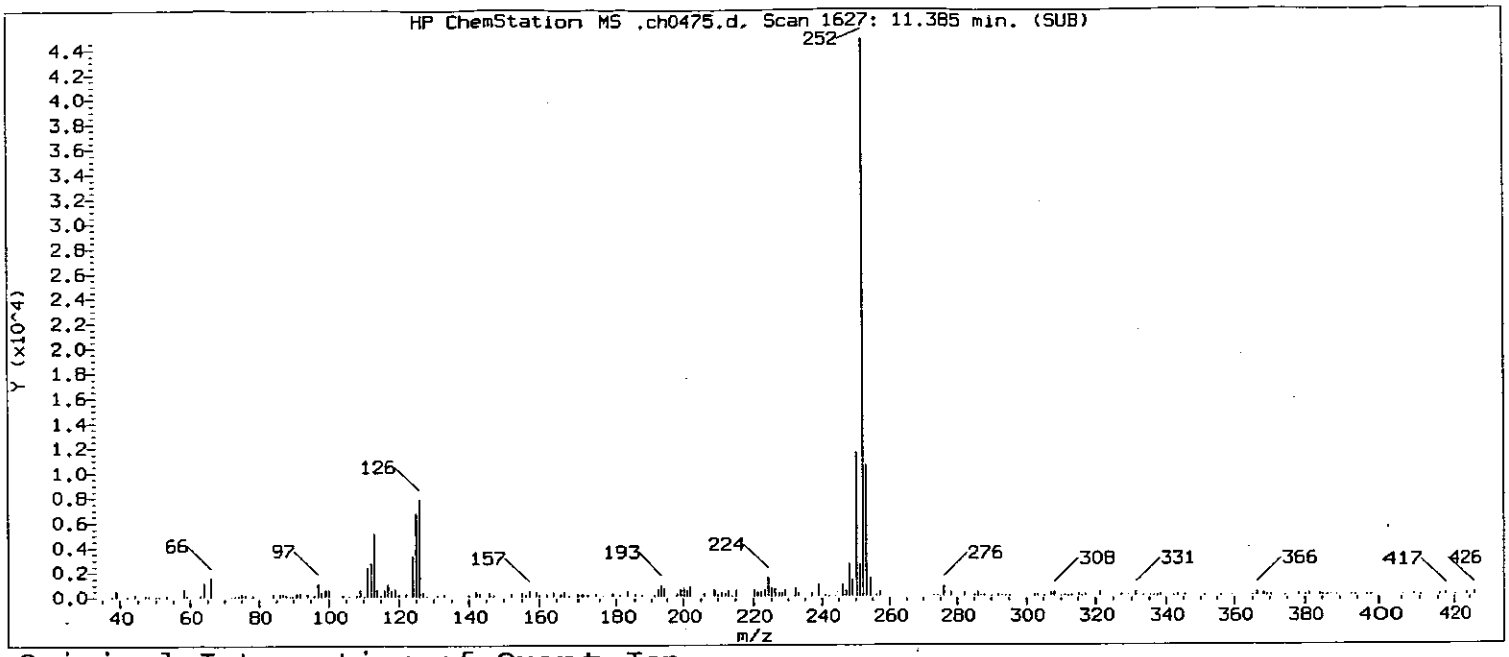
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217

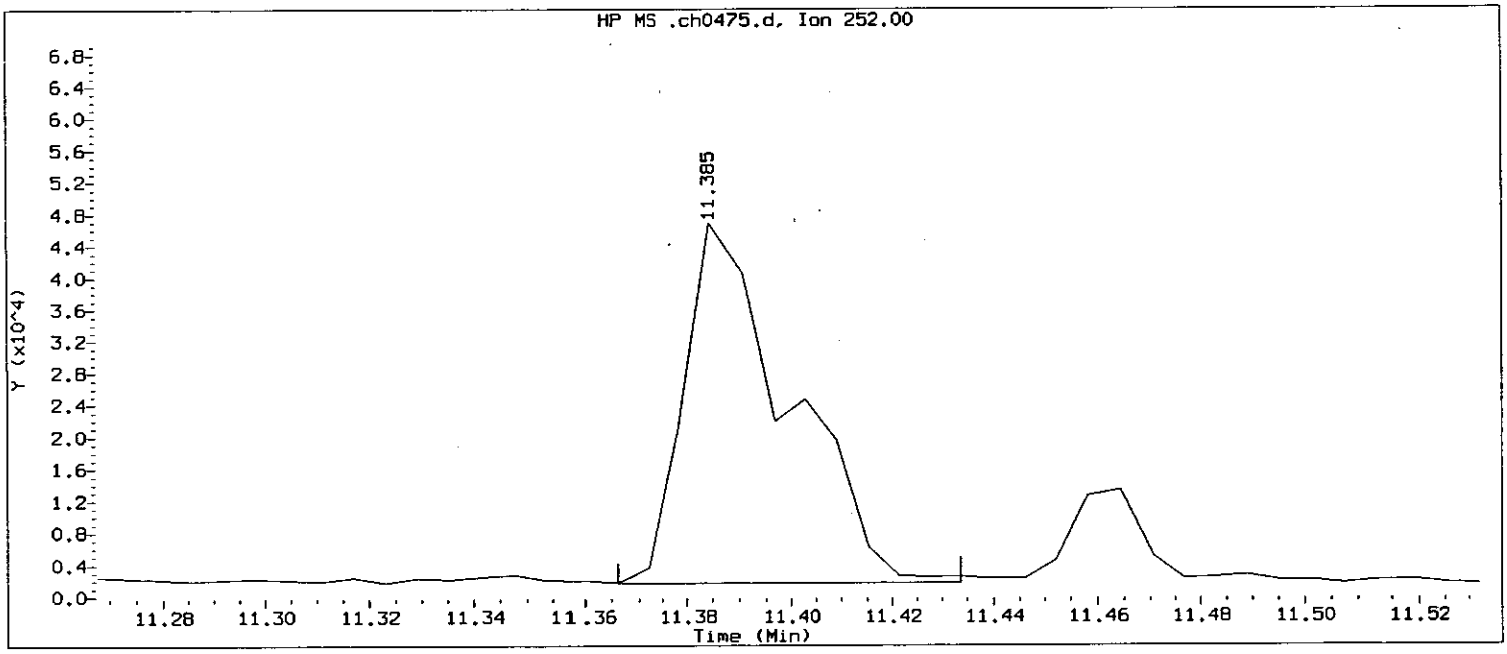
Lab Sample ID: 5118301

Compound Number	: 158
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1627
Retention Time (minutes)	: 11.385
Quant Ion	: 252.0
Area (flag)	: 46433 M
Concentration (ng/ul)	: 3.4991

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:34 Automation

Sample Name: TP217 Lab Sample ID: 5118301

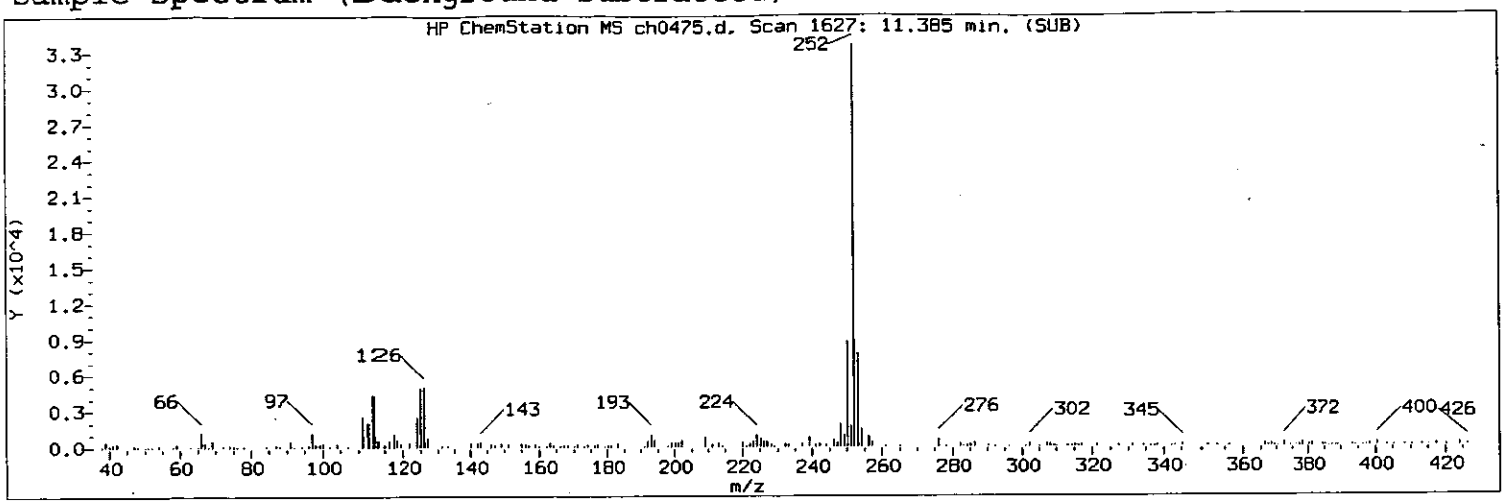
Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1627
Retention Time (minutes)	:	11.385
Quant Ion	:	252
Area	:	63963
Concentration (ng/ul)	:	4.8201
Integration start scan	:	1623
Y at integration start	:	1738

Integration stop scan: 1634
Y at integration end: 1676

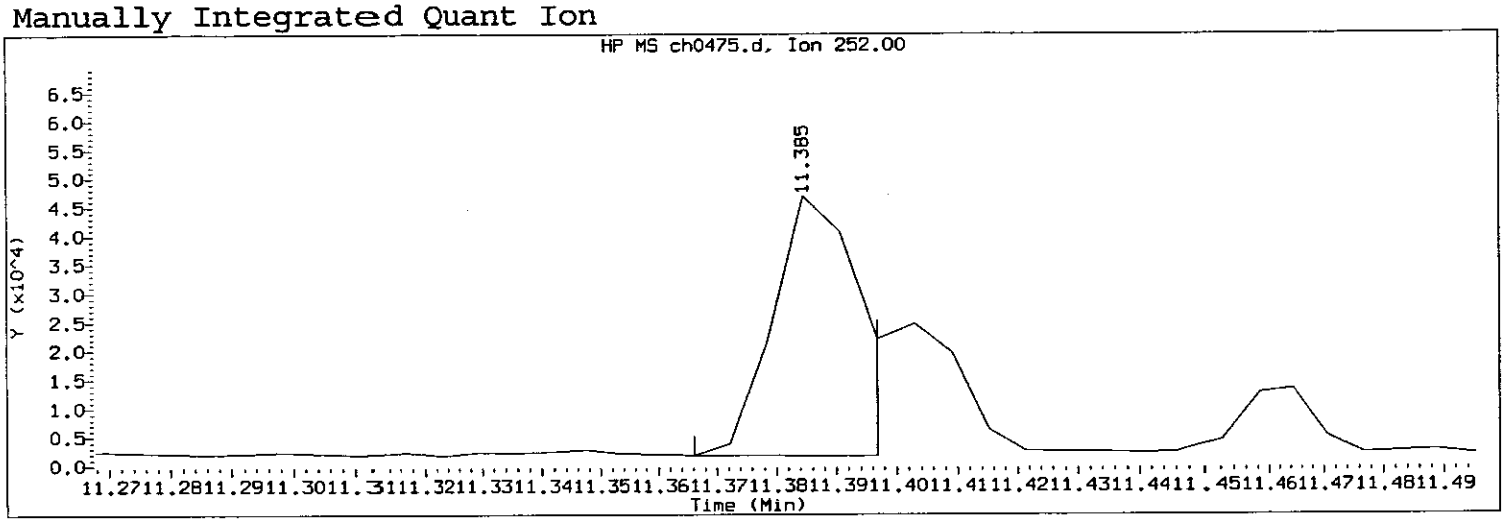
lmh195 08/16/07 0097

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0475.d, generated on 08/16/2007 at 00:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

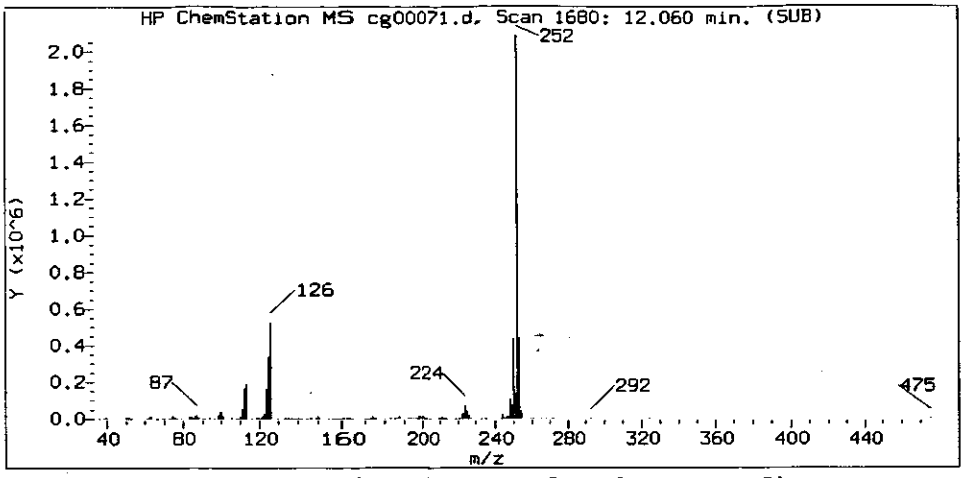
Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1627
Retention Time (minutes): 11.385
Quant Ion : 252
Area (flag) : 46433 M
Concentration (ng/ul) : 3.4991
Integration start scan : 1623 Integration stop scan: 1628
Y at integration start : 1738 Y at integration end: 1710

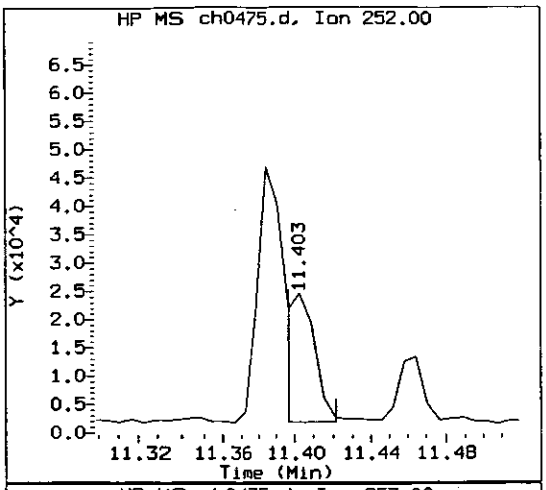
Reason for manual integration (circle one): missed peak improper integratic

Analyst responsible for change: lmh00956 08/16/07

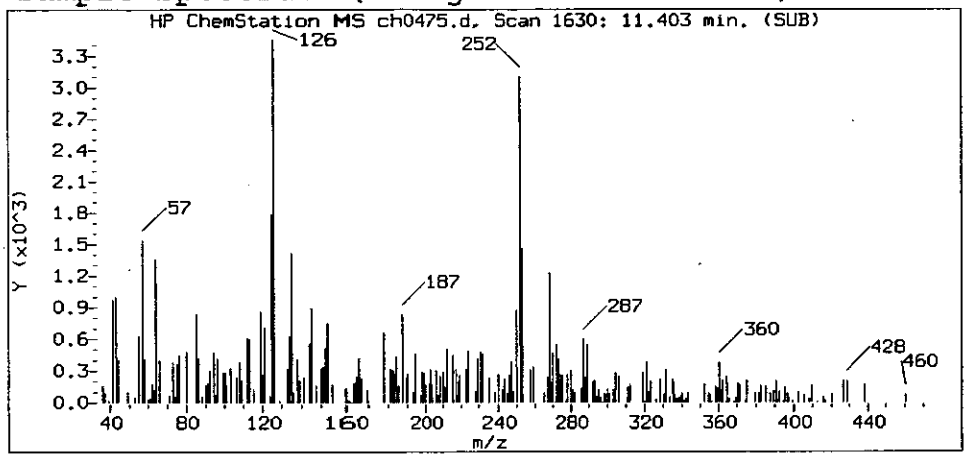
GC/MS audit/management approval: [redacted] 8/16/07

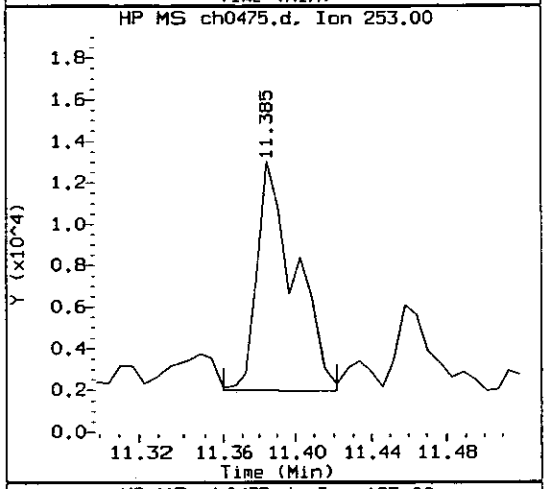
Reference Standard Spectrum for Benzo(k)fluoranthene



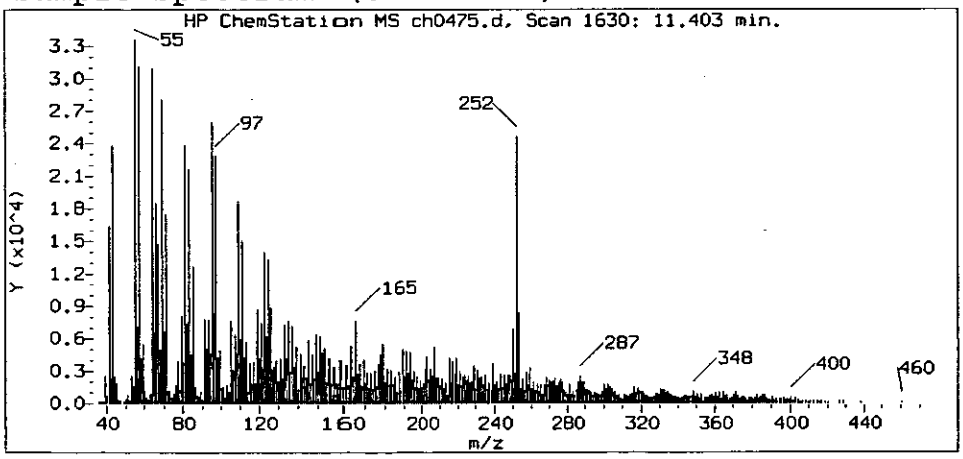


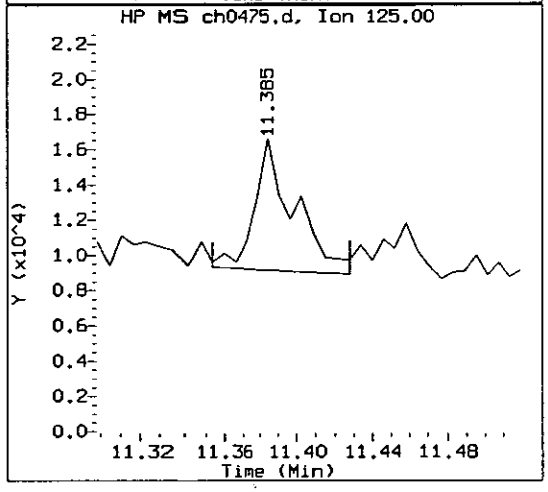
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

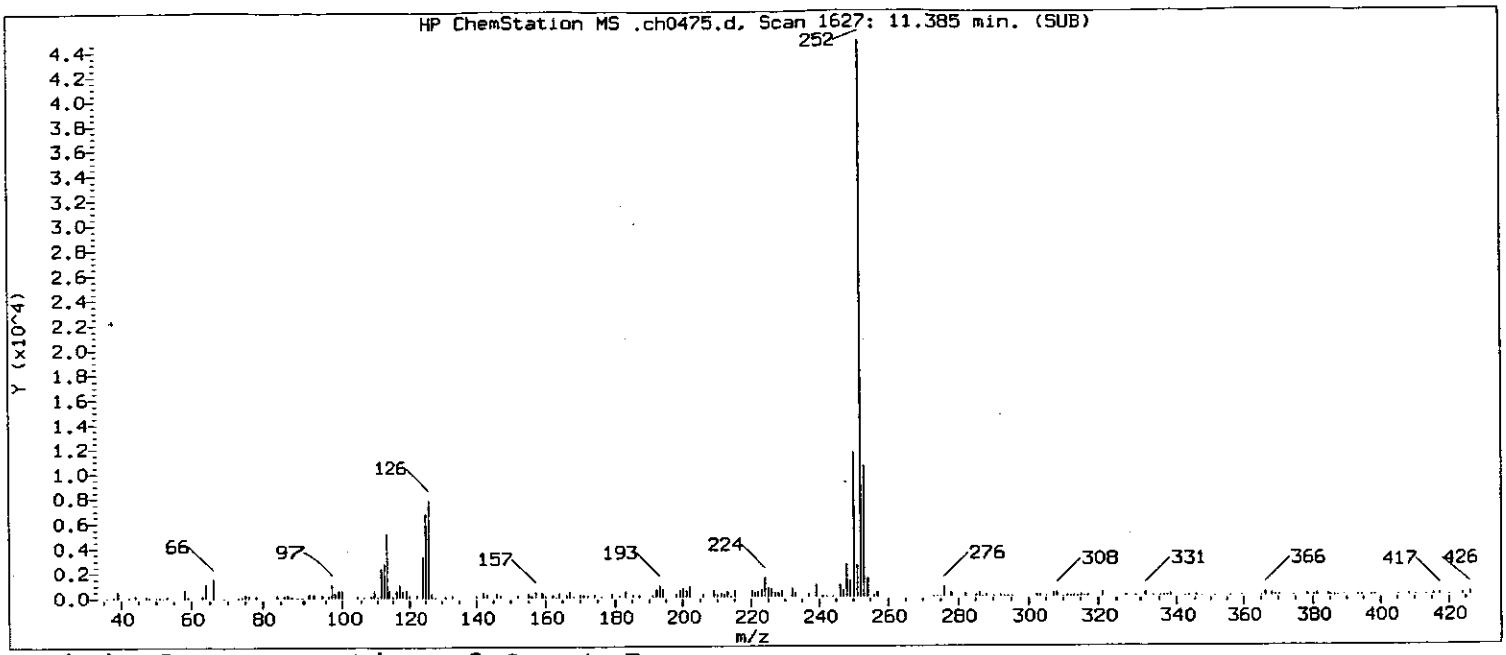
Sample Name: TP217

Lab Sample ID: 5118301

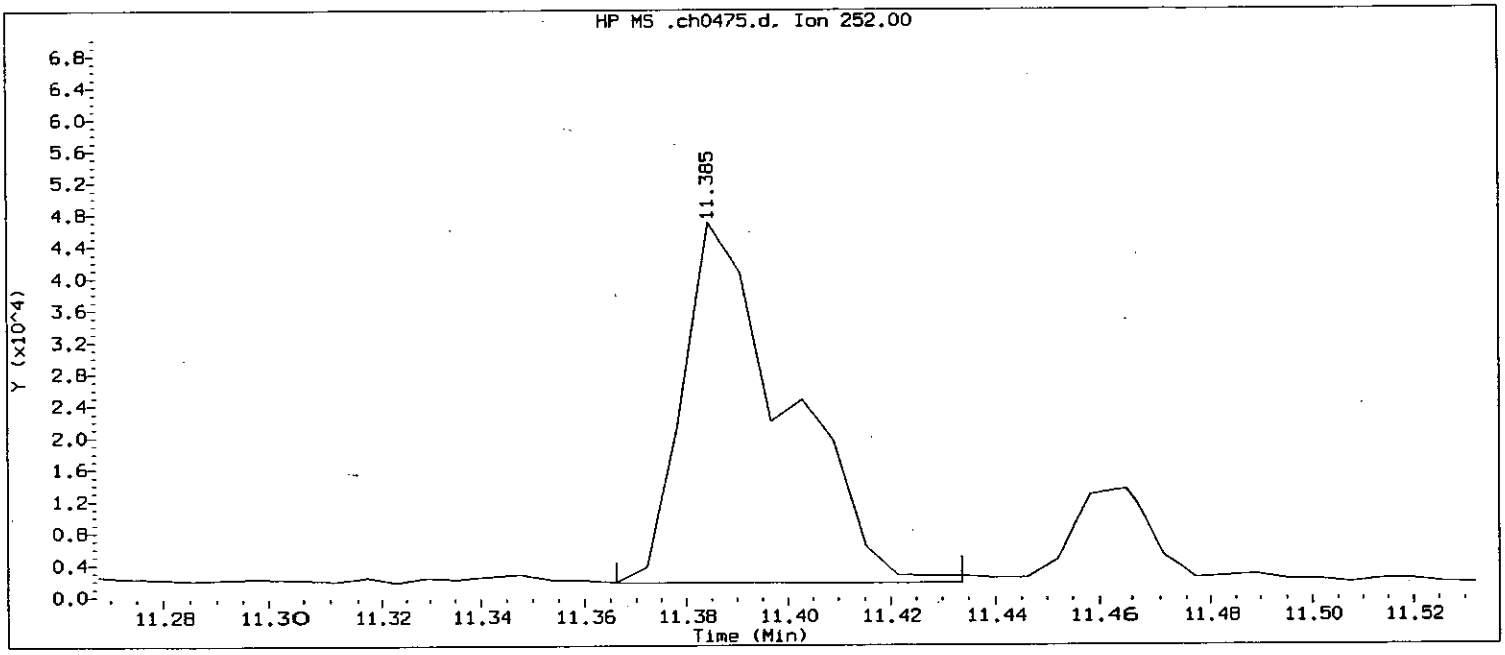
Compound Number	: 159
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1630
Retention Time (minutes)	: 11.403
Quant Ion	: 252.0
Area (flag)	: 24207 M
Concentration (ng/ul)	: 1.8037

8823

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:34 Automation

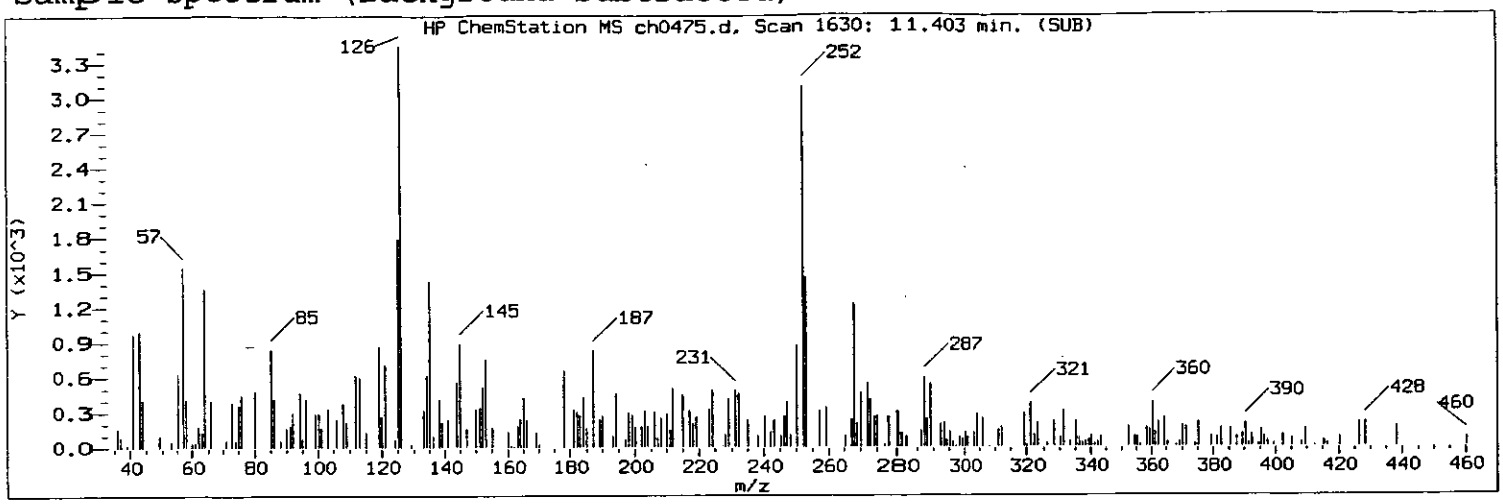
Sample Name: TP217 Lab Sample ID: 5118301

Compound Number	: 159	
Compound Name	: Benzo(k)fluoranthene	
Scan Number	: 1627	
Retention Time (minutes)	: 11.385	
Quant Ion	: 252	
Area	: 64197	
Concentration (ng/ul)	: 4.7833	
Integration start scan	: 1623	Integration stop scan: 1634
Y at integration start	: 1663	Y at integration end: 1636

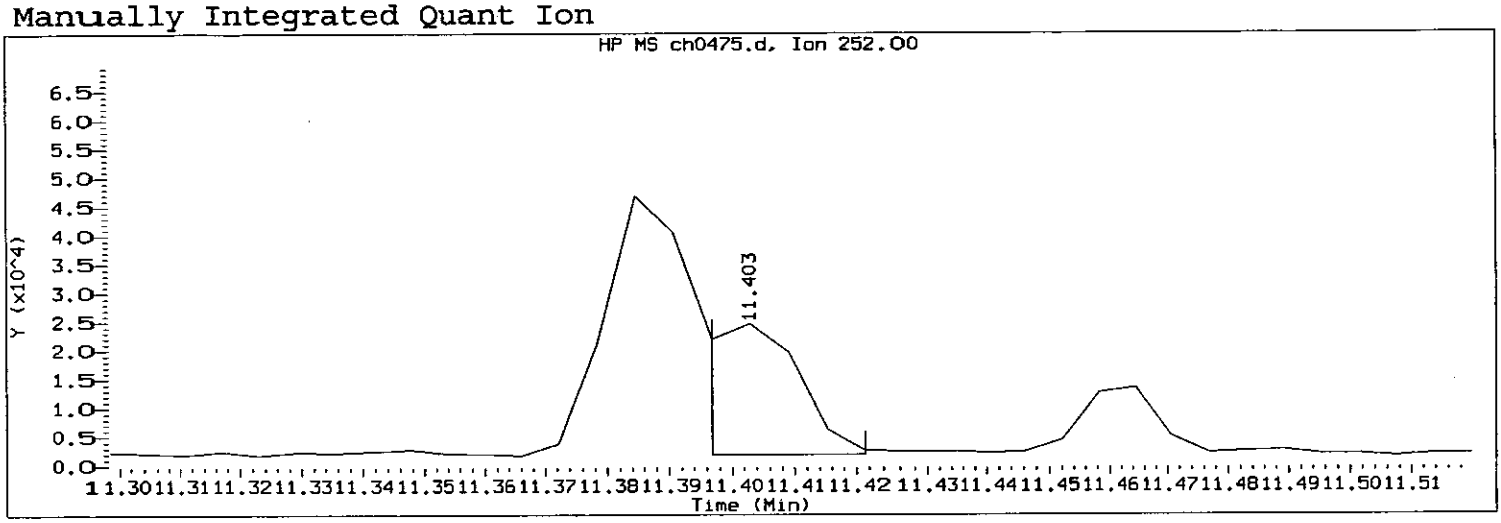
lmh 8/16/07

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0475.d, generated on 08/16/2007 at 00:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

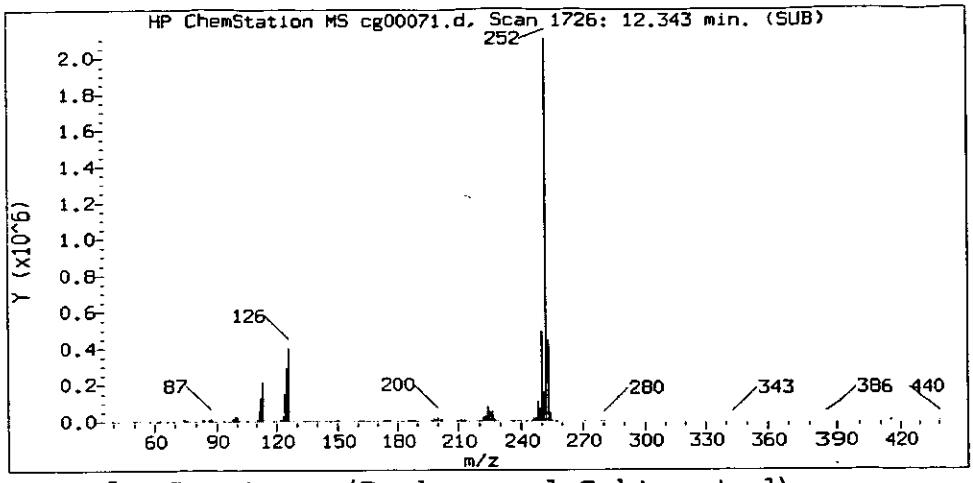
Compound Number : 159
Compound Name : Benzo(k)fluoranthene
Scan Number : 1630
Retention Time (minutes): 11.403
Quant Ion : 252
Area (flag) : 24207 M
Concentration (ng/ul) : 1.8037
Integration start scan : 1628 Integration stop scan: 1632
Y at integration start : 1885 Y at integration end: 1885

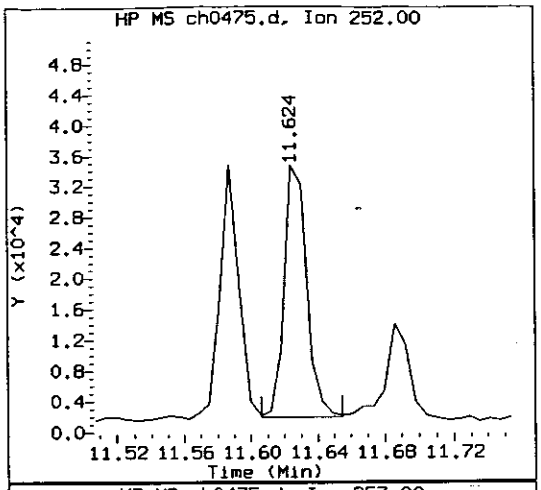
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: lmh 08/16/07

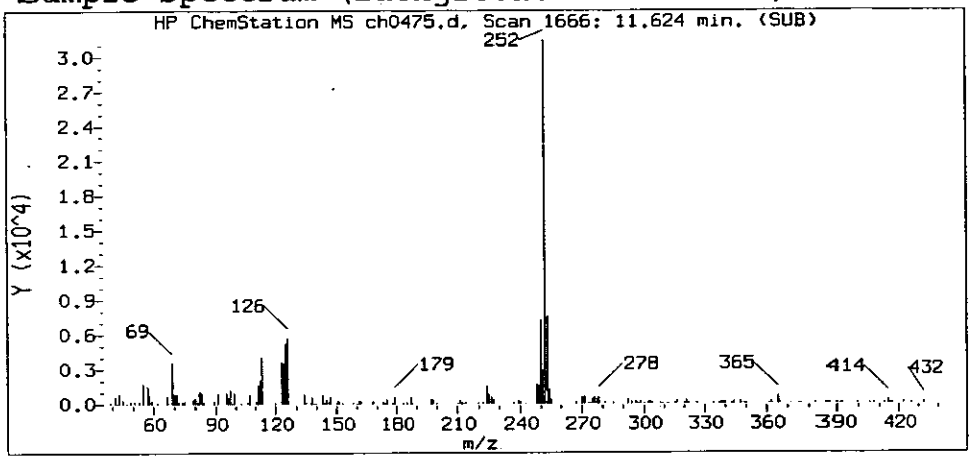
GC/MS audit/management approval: 8/16/07

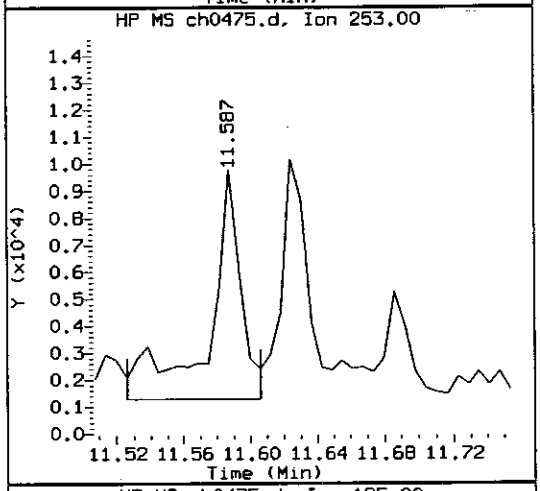
Reference Standard Spectrum for Benzo(a)pyrene



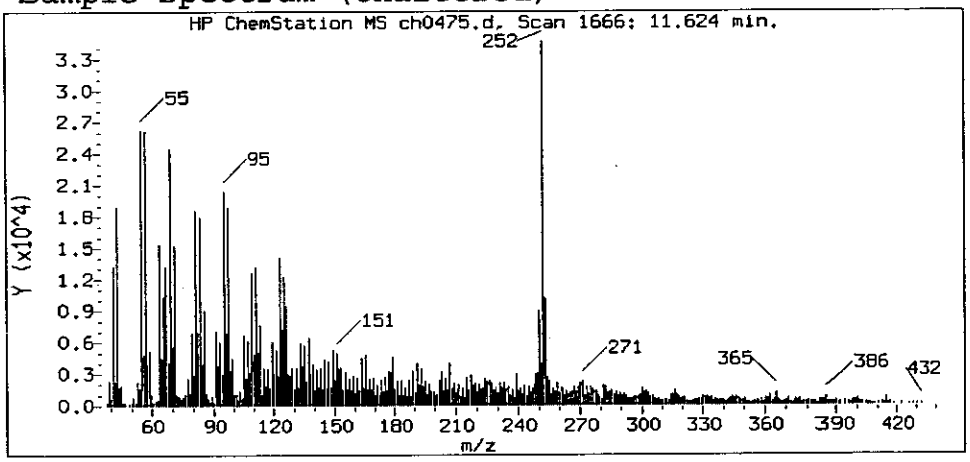


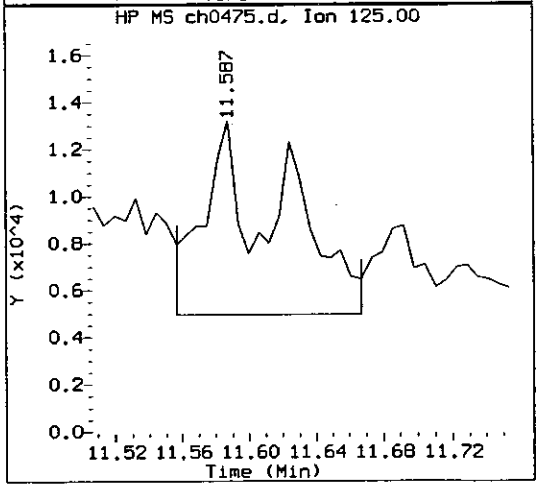
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

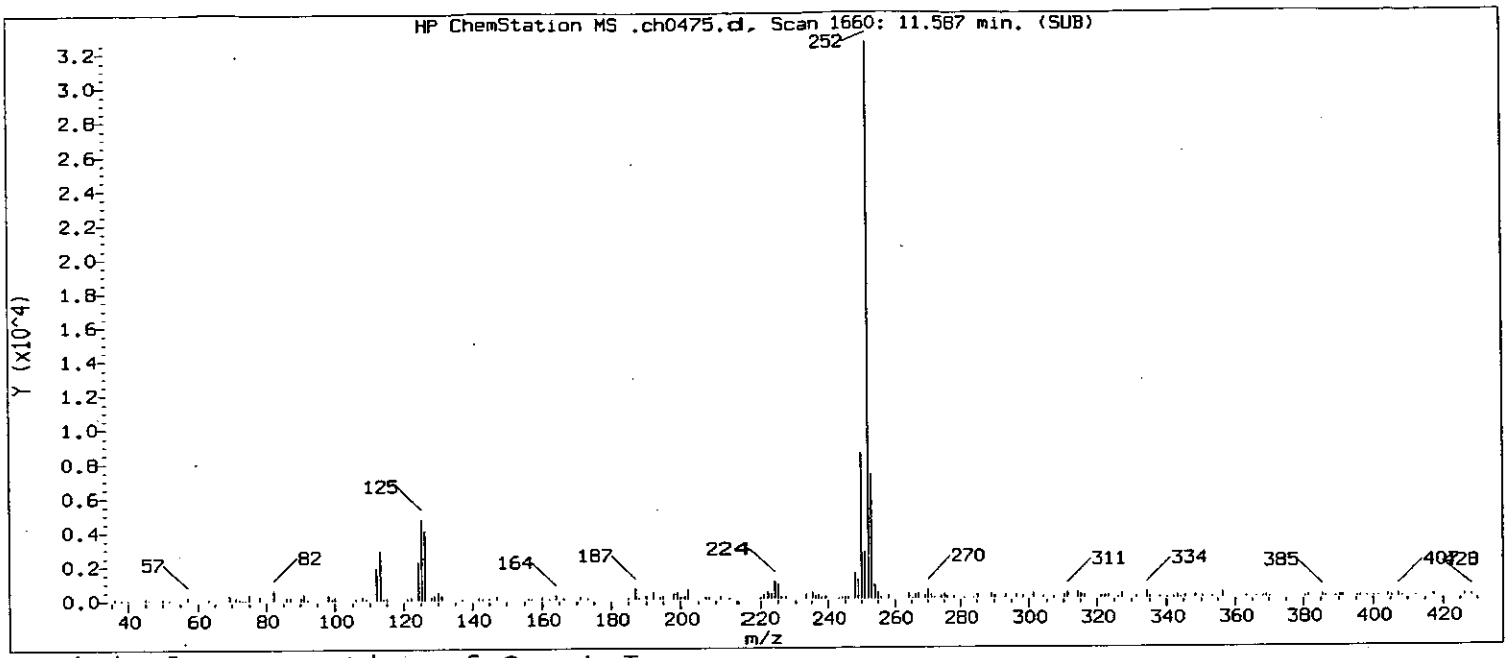
Sample Name: TP217

Lab Sample ID: 5118301

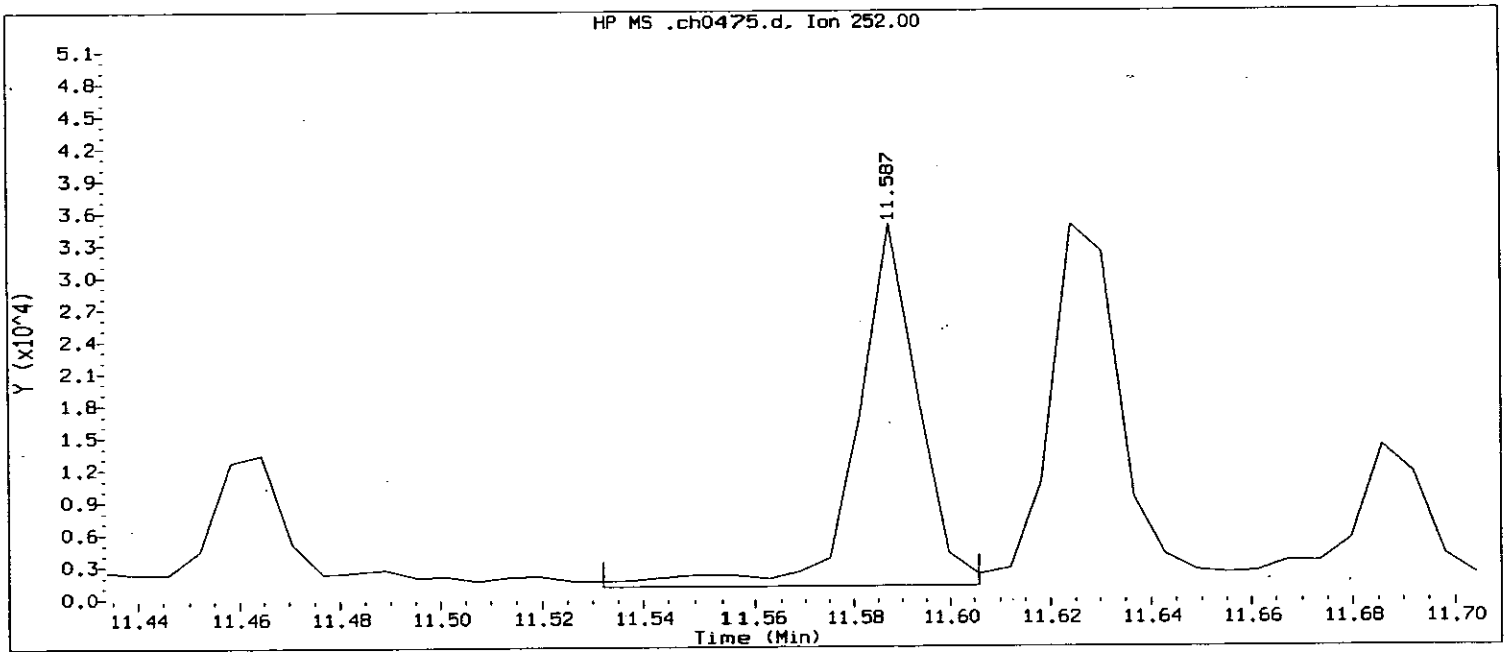
Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1666
Retention Time (minutes)	: 11.624
Quant Ion	: 252.0
Area (flag)	: 30479 M
Concentration (ng/ul)	: 2.4756

8102

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: all1

Date, time and analyst ID of latest file update: 16-Aug-2007 00:34 Automation

Sample Name: TP217

Lab Sample ID: 5118301

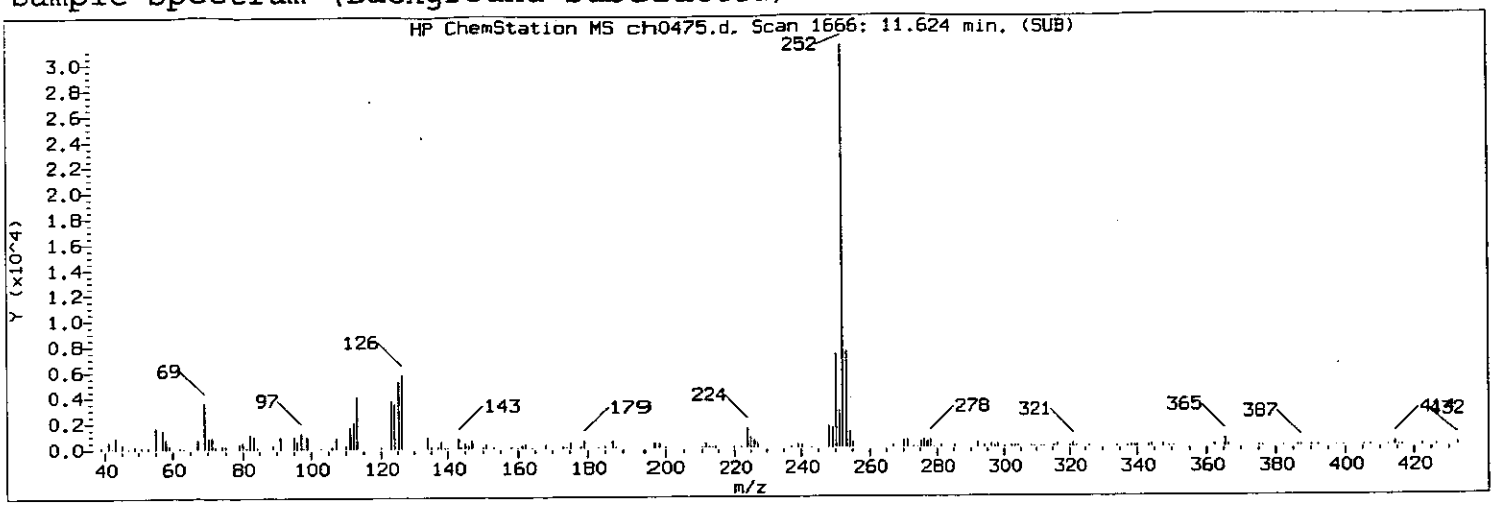
Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1660
Retention Time (minutes)	: 11.587
Quant Ion	: 252
Area	: 28893
Concentration (ng/ul)	: 2.3468
Integration start scan	: 1650
Y at integration start	: 1066

lmh 8/16/07 8183

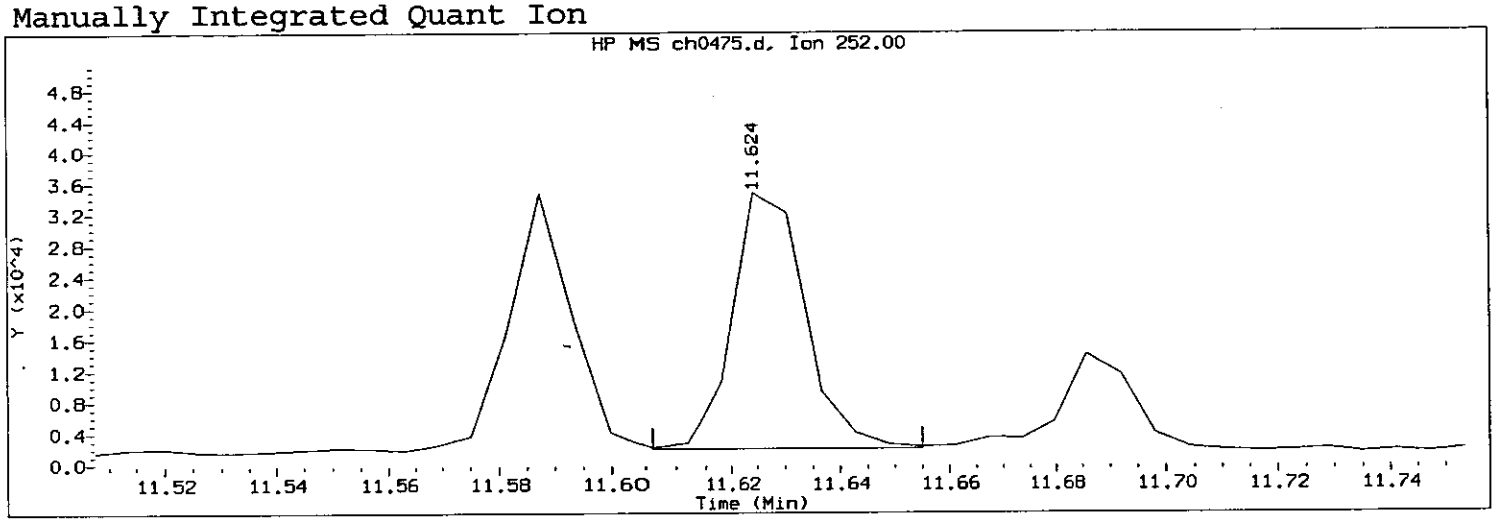
Integration stop scan: 1662
Y at integration end: 1066

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0475.d, generated on 08/16/2007 at 00:54

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0475.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:18 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217 Lab Sample ID: 5118301

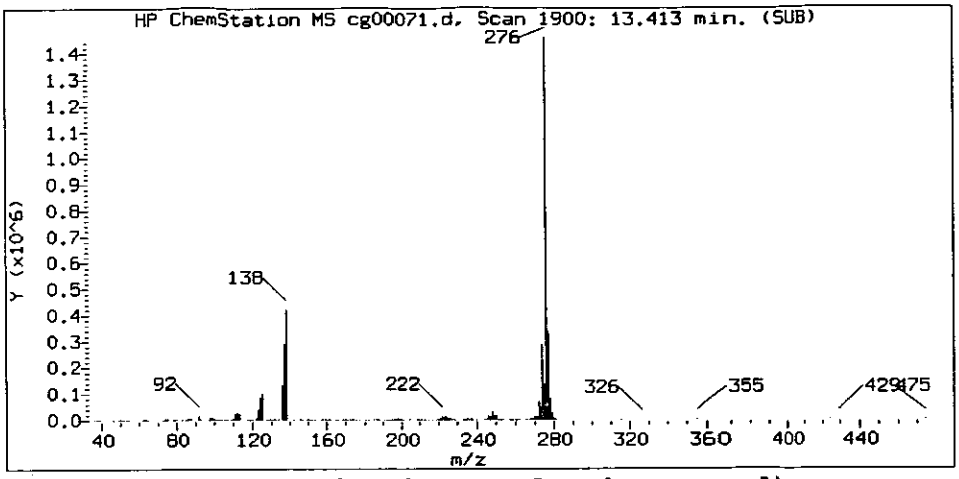
Compound Number : 160
Compound Name : Benzo(a)pyrene
Scan Number : 1666
Retention Time (minutes): 11.624
Quant Ion : 252
Area (flag) : 30479 M
Concentration (ng/ul) : 2.4756
Integration start scan : 1662 Integration stop scan: 1670
Y at integration start : 1998 Y at integration end: 1998

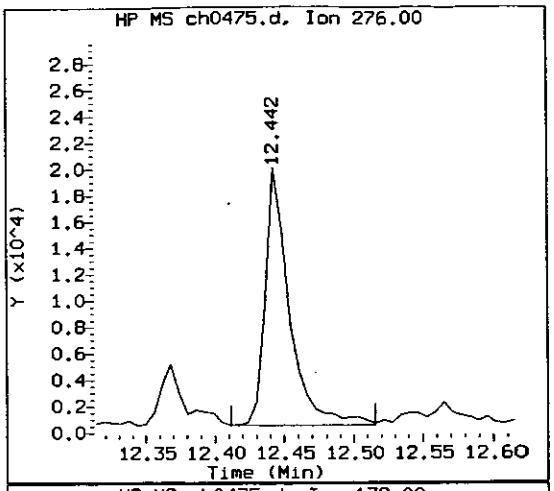
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: lmh956 08/16/07

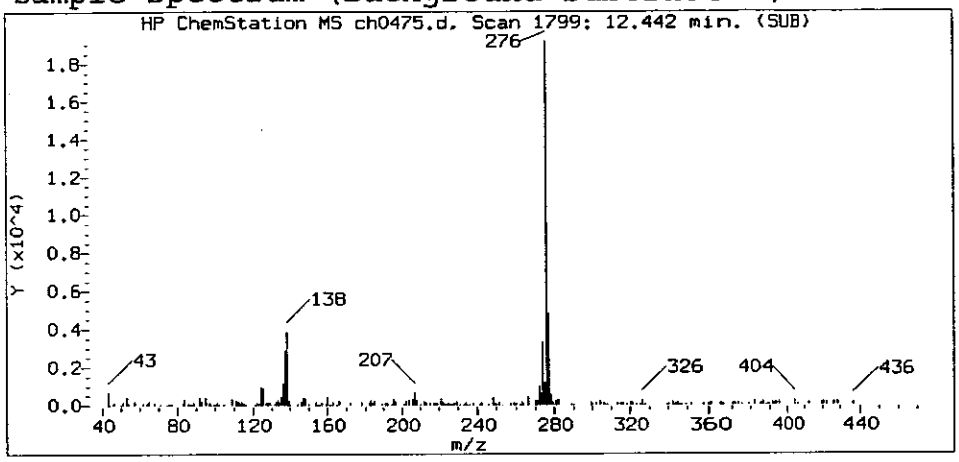
GC/MS audit/management approval: 8/16/07

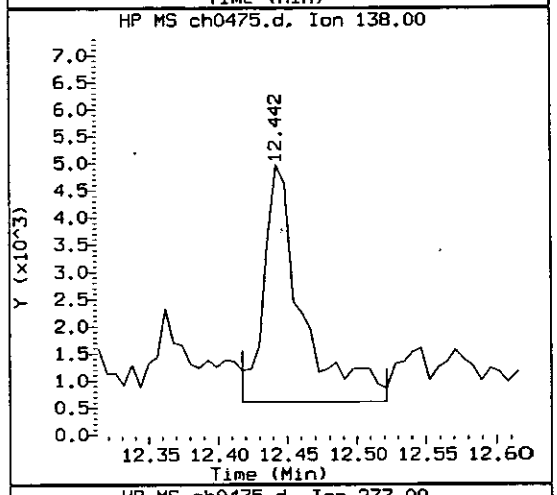
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



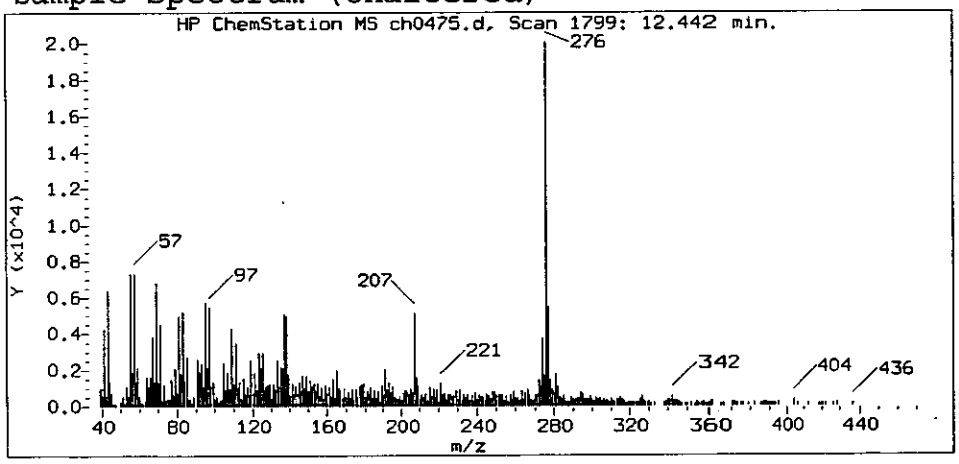


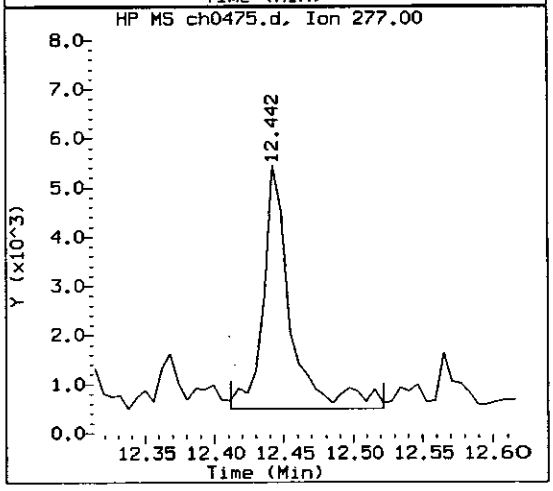
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

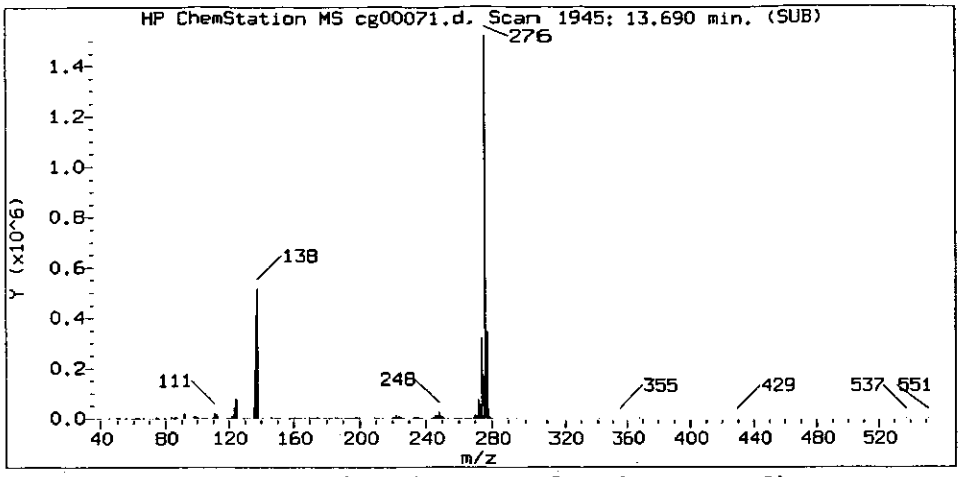
Sample Name: TP217

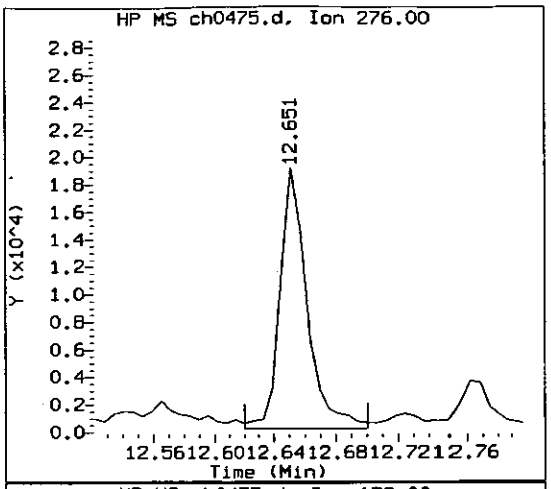
Lab Sample ID: 5118301

Compound Number	: 168
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1799
Retention Time (minutes)	: 12.442
Quant Ion	: 276.0
Area (flag)	: 23722
Concentration (ng/ul)	: 1.5288

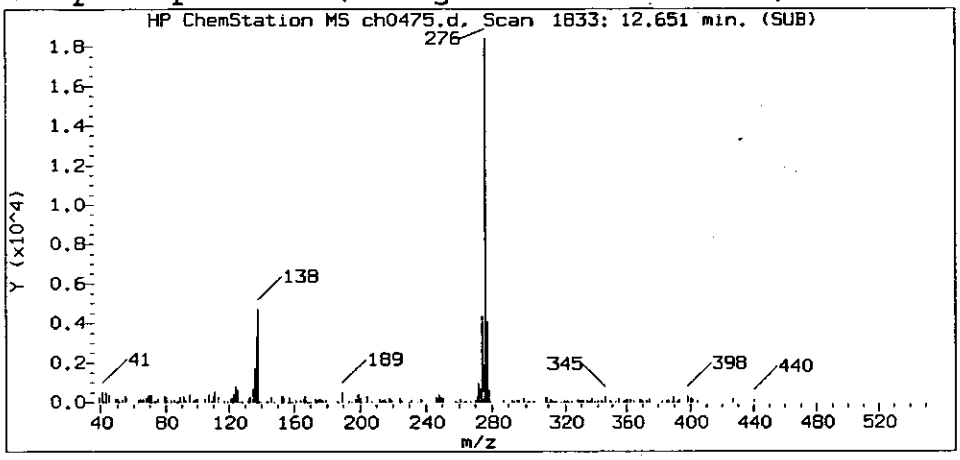
0185

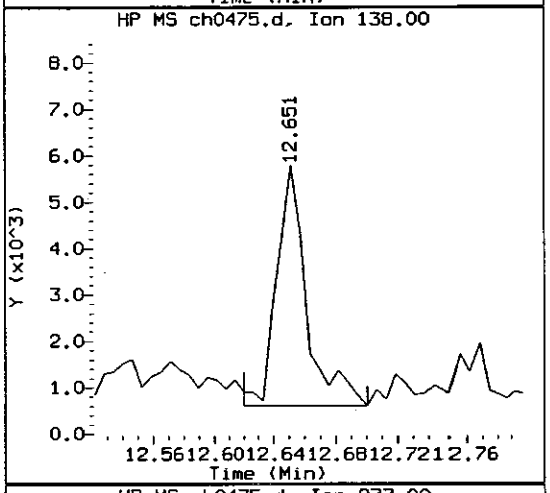
Reference Standard Spectrum for Benzo(g,h,i)perylene



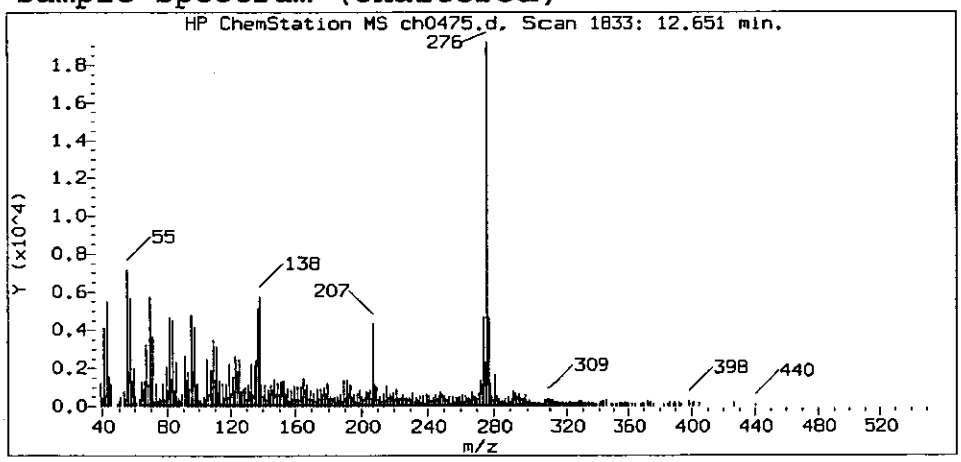


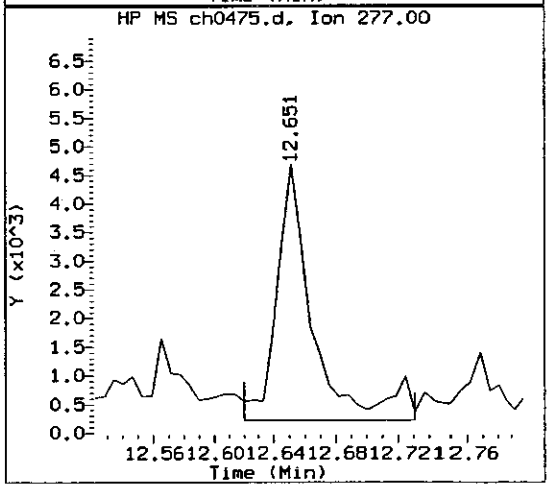
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug15.b/ch0475.d
Injection date and time: 16-AUG-2007 00:18

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m
Calibration date and time: 15-AUG-2007 20:42

Sublist used: SPAH

Date, time and analyst ID of latest file update: 16-Aug-2007 00:54 lmh00956

Sample Name: TP217

Lab Sample ID: 5118301

Compound Number	:	170
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	1833
Retention Time (minutes)	:	12.651
Quant Ion	:	276.0
Area (flag)	:	23067
Concentration (ng/ul)	:	1.7497

8186

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP218

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118304

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0304.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 14 dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/09/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ UG/KG	Q
91-20-3	Naphthalene	260	
208-96-8	Acenaphthylene	1600	
83-32-9	Acenaphthene	120	J
86-73-7	Fluorene	2400	
85-01-8	Phenanthrene	3200	
120-12-7	Anthracene	1600	
206-44-0	Fluoranthene	7100	E
129-00-0	Pyrene	7700	E
56-55-3	Benzo(a)anthracene	5500	E
218-01-9	Chrysene	5100	E
205-99-2	Benzo(b)fluoranthene	6900	E
207-08-9	Benzo(k)fluoranthene	2500	
50-32-8	Benzo(a)pyrene	4000	
193-39-5	Indeno(1,2,3-cd)pyrene	2400	
53-70-3	Dibenz(a,h)anthracene	970	
191-24-2	Benzo(g,h,i)perylene	2300	

TP218

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118304

Data file: /chem/HP10623.i/07aug09a.b/ch0304.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:07 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula : On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.715(0.000)	526	152.0	92688(-5)	40.00	
46) Naphthalene-d8	5.840(0.006)	709	136.0	416808(-7)	40.00	
82) Acenaphthene-d10	7.316(0.000)	949	164.0	242763(-8)	40.00	
120) Phenanthrene-d10	8.533(0.000)	1147	188.0	408635(-11)	40.00	
149) Chrysene-d12	10.691(-0.006)	1498	240.0	299332(-23)	40.00	
161) Perylene-d12	11.835(-0.012)	1684	264.0	270356(-16)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.225(-0.001)	82	400359	98.535	99%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.775(0.000)	172	609707	79.802	80%		55 - 123
138) Terphenyl-d14	(5)	9.855(0.000)	244	505475	82.040	82%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/u
47) Naphthalene	(2)	5.858(0.000)	128	76784	6.748	224.92			1.00
80) Acenaphthylene	(3)	7.199(0.000)	152	459117	42.093	1403.09			1.00
83) Acenaphthene	(3)	7.340(0.000)	153	20309	2.968	98.94			1.00
94) Fluorene	(3)	7.771(-0.001)	166	512452	62.718	2090.59			1.00
121) Phenanthrene	(4)	8.552(0.000)	178	906682	81.424	2714.12			1.00
124) Anthracene	(4)	8.595(-0.001)	178	474579	41.315	1377.17			1.00
134) Fluoranthene	(4)	9.529(-0.001)	202	2294423	183.908	6130.28		E	1.00
136) Pyrene	(5)	9.707(-0.001)	202	1847934	197.534	6584.46		E	1.00
146) Benzo(a)anthracene	(5)	10.685(0.000)	228	1203725	142.408	4746.93		E	1.00
150) Chrysene	(5)	10.716(0.000)	228	1089244	130.580	4352.68		E	1.00
158) Benzo(b)fluoranthene	(6)	11.552(0.000)	252	1612442	177.581	5919.38		E	1.00
159) Benzo(k)fluoranthene	(6)	11.571(0.000)	252	655473	64.235	2141.16			1.00
160) Benzo(a)pyrene	(6)	11.798(-0.001)	252	924183	103.575	3452.51			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.659(0.000)	276	625395	62.332	2077.72			1.00
169) Dibenz(a,h)anthracene	(6)	12.671(0.001)	278	200048	24.898	829.93			1.00
170) Benzo(g,h,i)perylene	(6)	12.893(0.000)	276	506490	60.203	2006.77			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

Data file: /chem/HP10623.i/07aug09a.b/ch0304.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:07 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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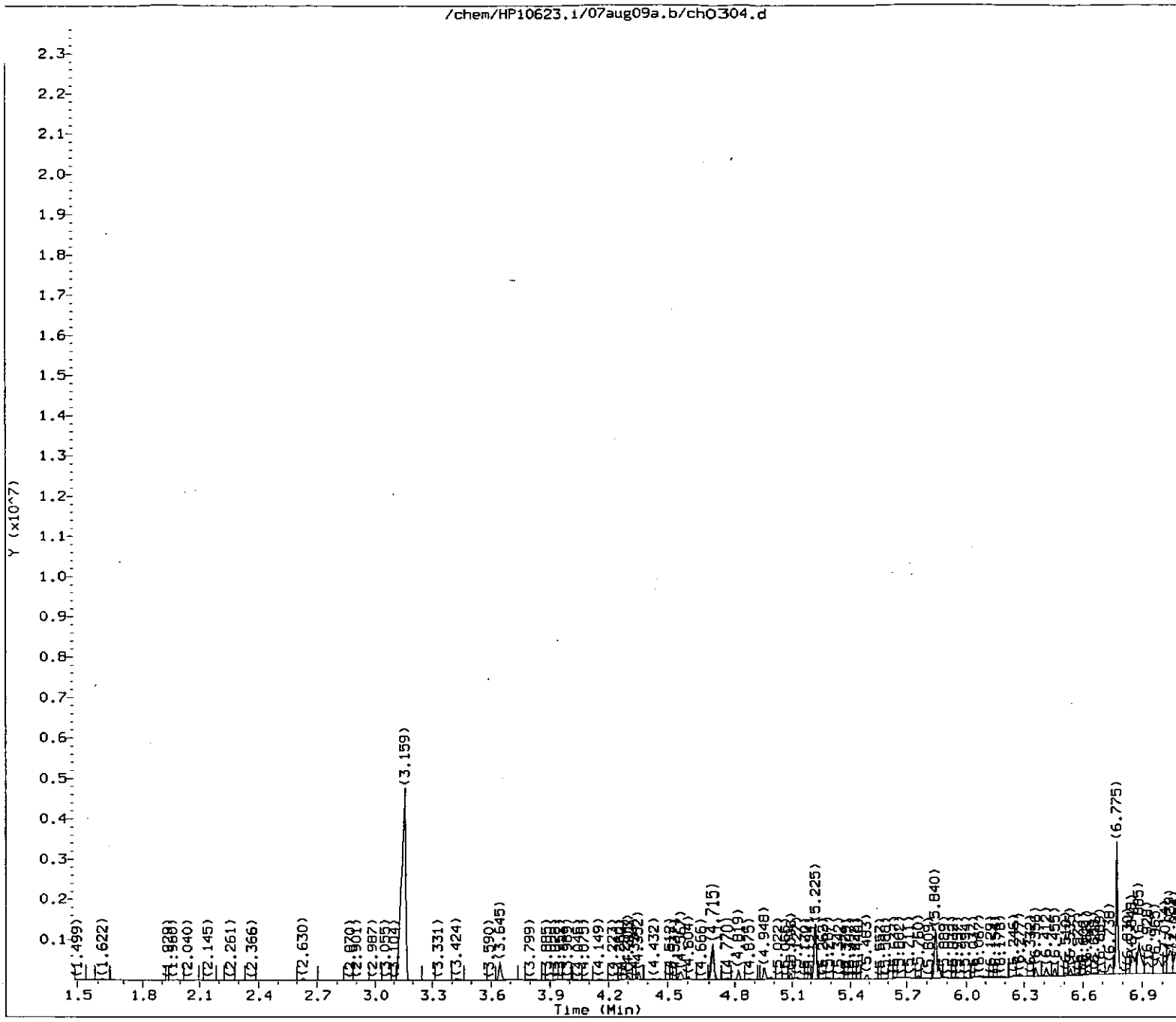
Total number of targets = 16

Comments:

Analyst: Date:
Auditor: Date: 8/13/07



Quant Report

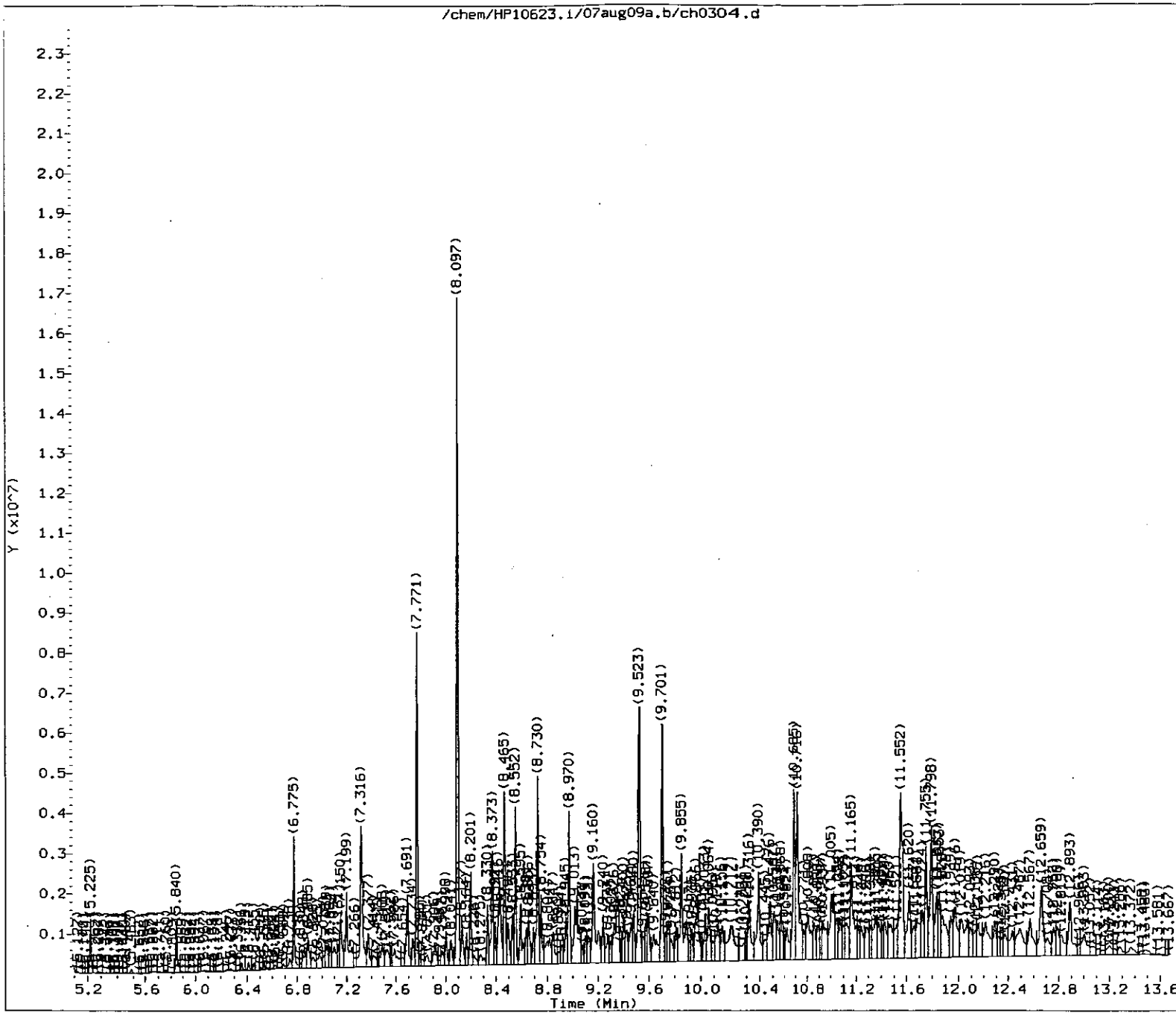
Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

0118



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

BGn
8/10/07

8111

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

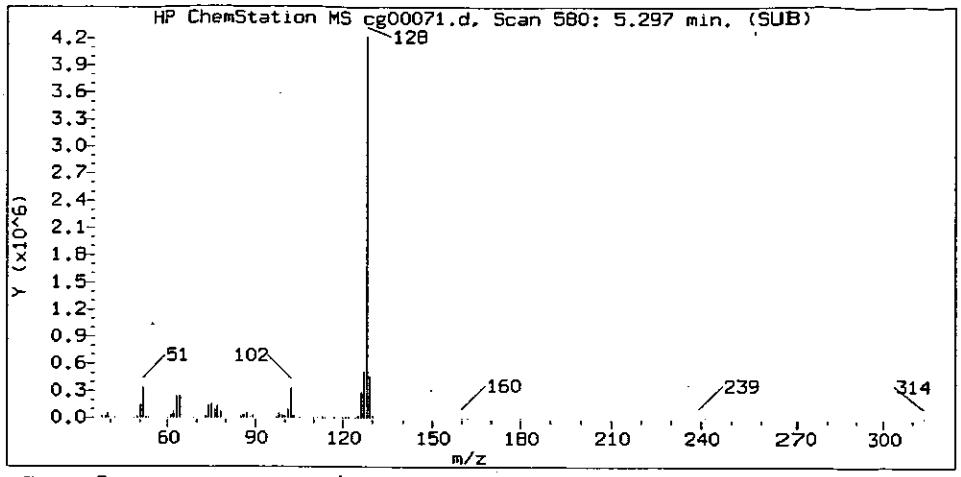
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

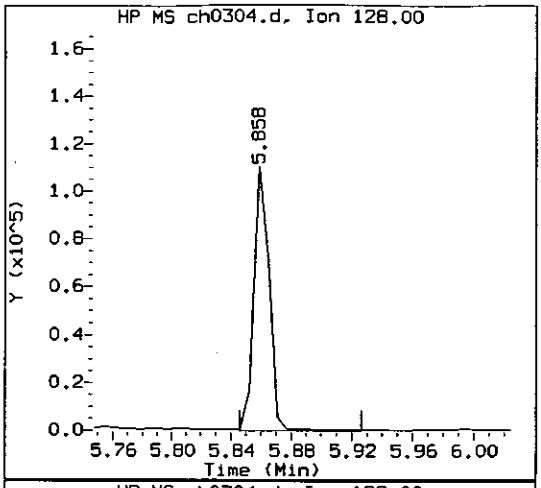
Sample Name: TP218 Lab Sample ID: 5118304

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.715	152	92688	40.0000
46)	Naphthalene-d8	(2)	5.840	136	416808	40.0000
47)	Naphthalene	(2)	5.858	128	76784	6.7477
80)	Acenaphthylene	(3)	7.199	152	459117	42.0928
82)	Acenaphthene-d10	(3)	7.316	164	242763	40.0000
83)	Acenaphthene	(3)	7.340	153	20309M	2.9681
94)	Fluorene	(3)	7.771	166	512452	62.7178
120)	Phenanthrene-d10	(4)	8.533	188	408635	40.0000
121)	Phenanthrene	(4)	8.552	178	906682	81.4236
124)	Anthracene	(4)	8.595	178	474579	41.3150
134)	Fluoranthene	(4)	9.529	202	2294423	183.9083
136)	Pyrene	(5)	9.707	202	1847934	197.5339
146)	Benzo(a)anthracene	(5)	10.685	228	1203725	142.4078
149)	Chrysene-d12	(5)	10.691	240	299332	40.0000
150)	Chrysene	(5)	10.716	228	1089244	130.5804
158)	Benzo(b)fluoranthene	(6)	11.552	252	1612442M	177.5814
159)	Benzo(k)fluoranthene	(6)	11.571	252	655473M	64.2347
160)	Benzo(a)pyrene	(6)	11.798	252	924183	103.5752
161)	Perylene-d12	(6)	11.835	264	270356M	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.659	276	625395M	62.3317
169)	Dibenz(a,h)anthracene	(6)	12.671	278	200048M	24.8978
170)	Benzo(g,h,i)perylene	(6)	12.893	276	506490	60.2032
35)	Nitrobenzene-d5	(2)	5.225	82	400359	98.5349
66)	2-Fluorobiphenyl	(3)	6.775	172	609707	79.8022
138)	Terphenyl-d14	(5)	9.855	244	505475	82.0399

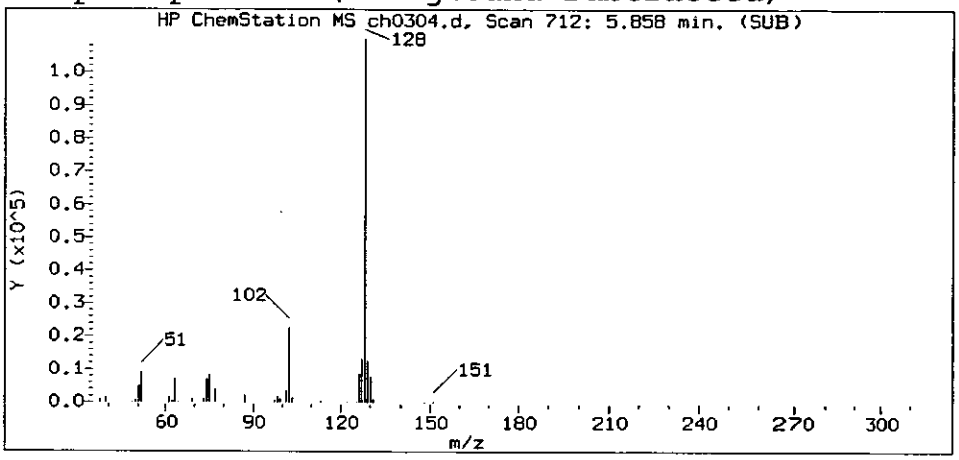
M = Compound was manually integrated. A = User selected an alternate hi

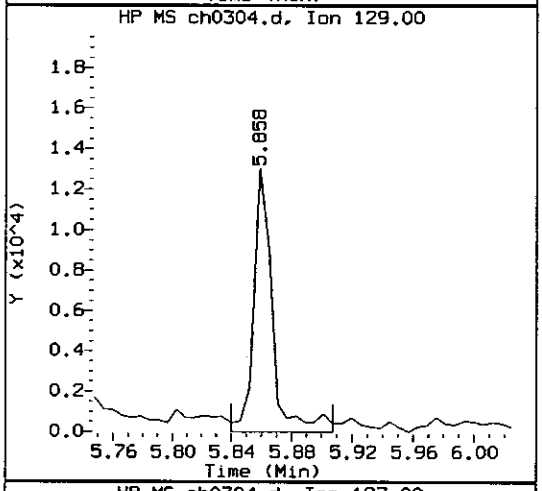
Reference Standard Spectrum for Naphthalene



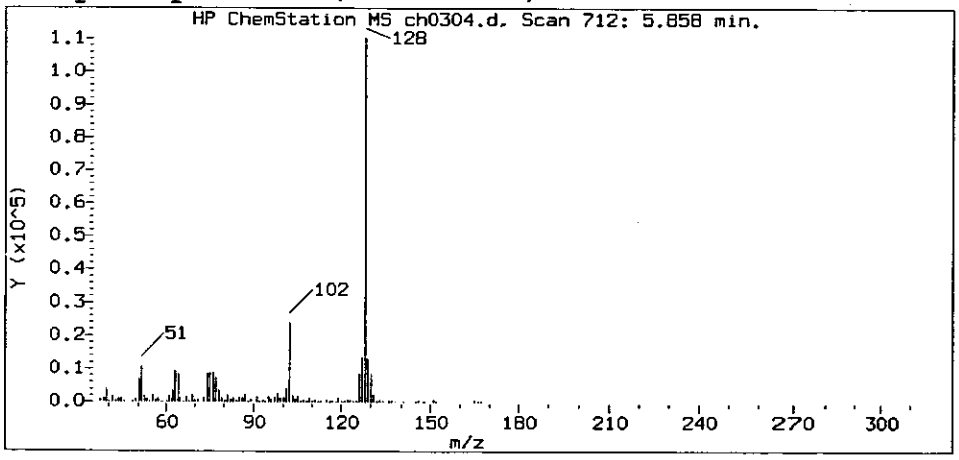


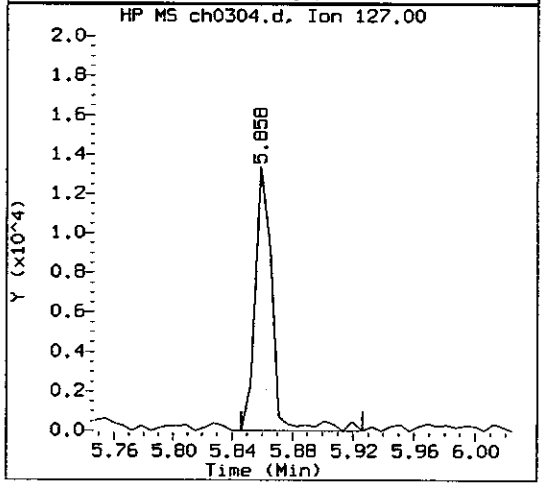
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

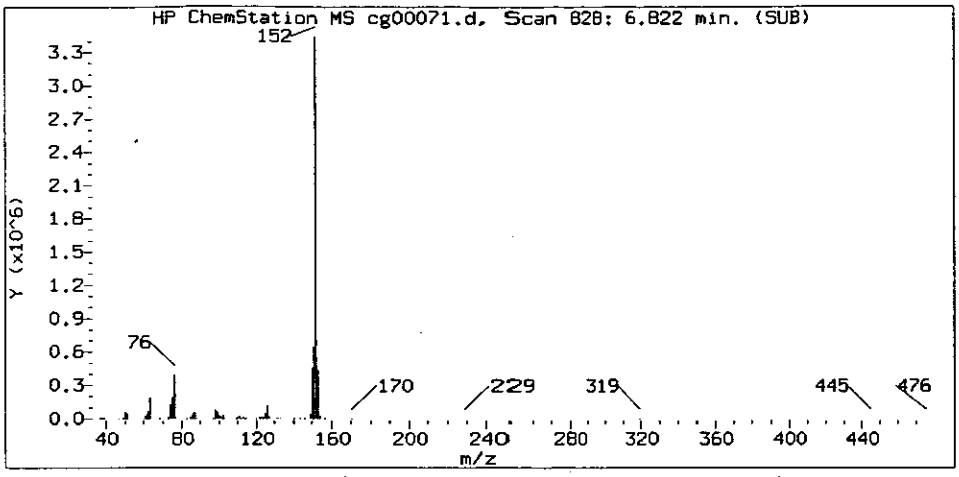
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

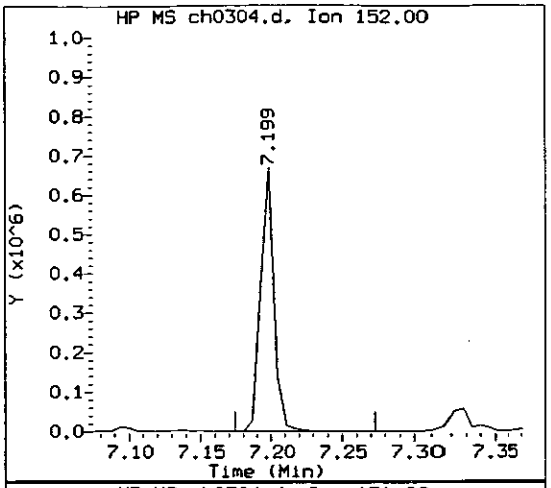
Sample Name: TP218

Lab Sample ID: 5118304

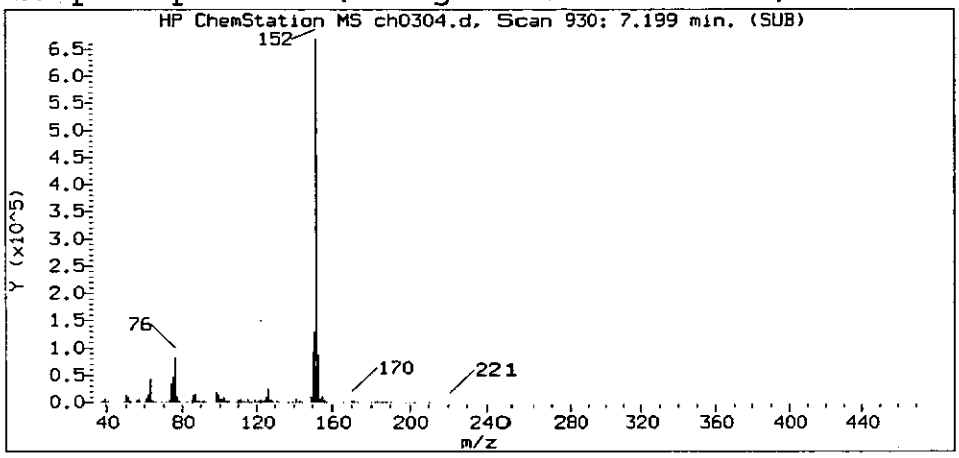
Compound Number	: 47
Compound Name	: Naphthalene
Scan Number	: 712
Retention Time (minutes)	: 5.858
Quant Ion	: 128.0
Area (flag)	: 76784
Concentration (ng/ul)	: 6.7477

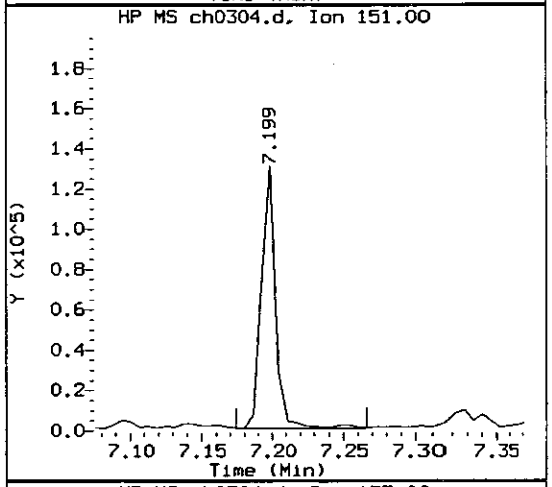
Reference Standard Spectrum for Acenaphthylene



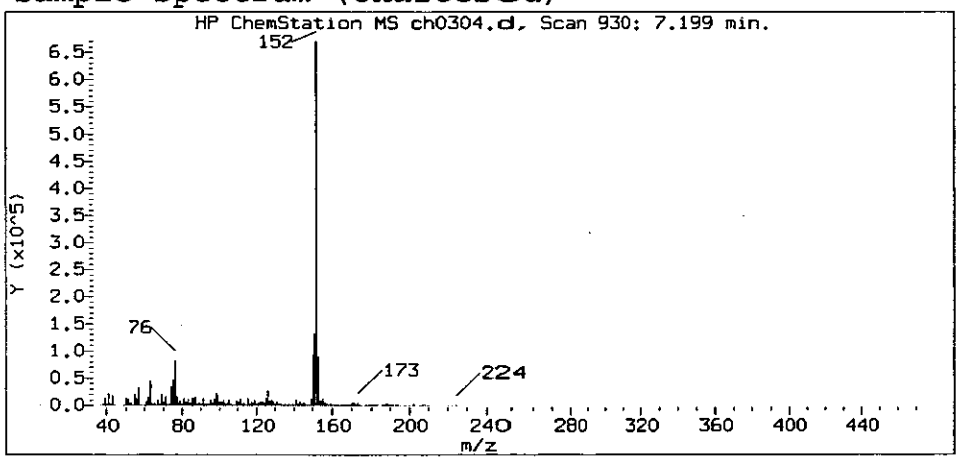


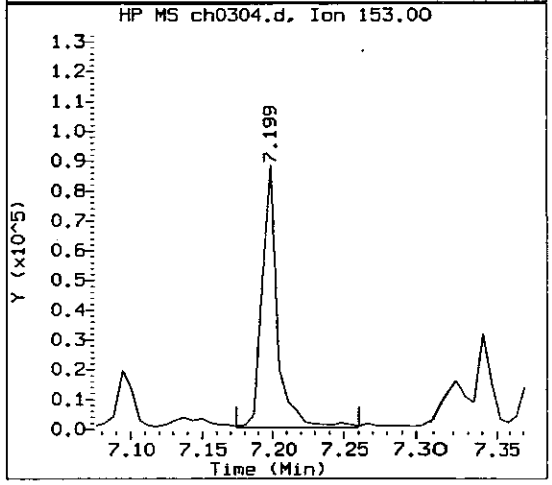
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

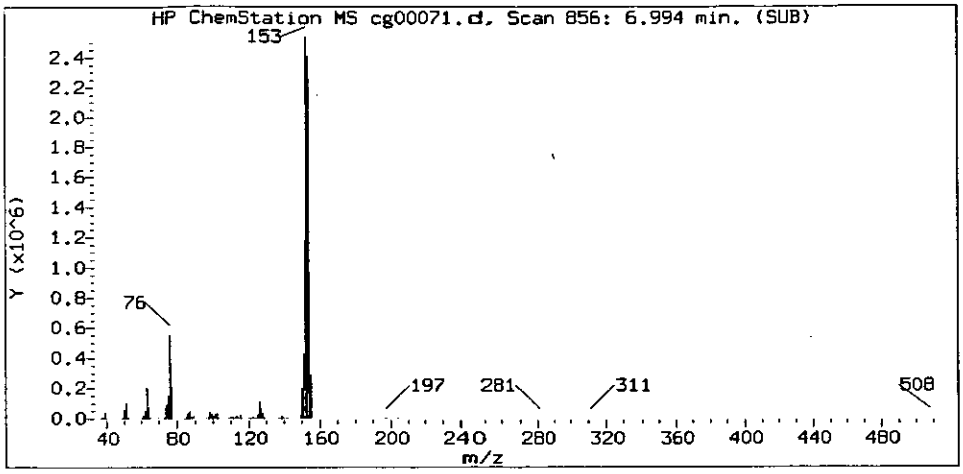
Sample Name: TP218

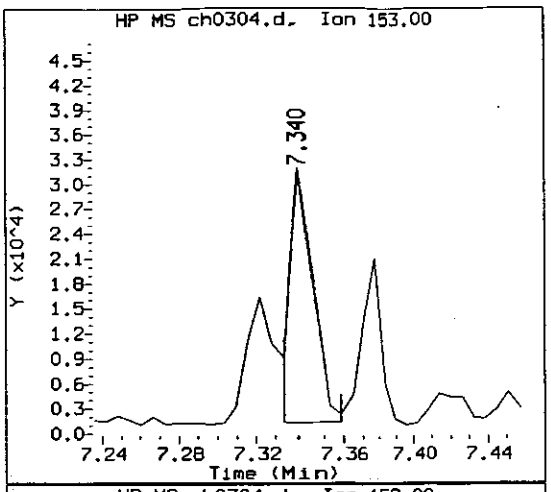
Lab Sample ID: 5118304

Compound Number	: 80
Compound Name	: Acenaphthylene
Scan Number	: 930
Retention Time (minutes)	: 7.199
Quant Ion	: 152.0
Area (flag)	: 459117
Concentration (ng/ul)	: 42.0928

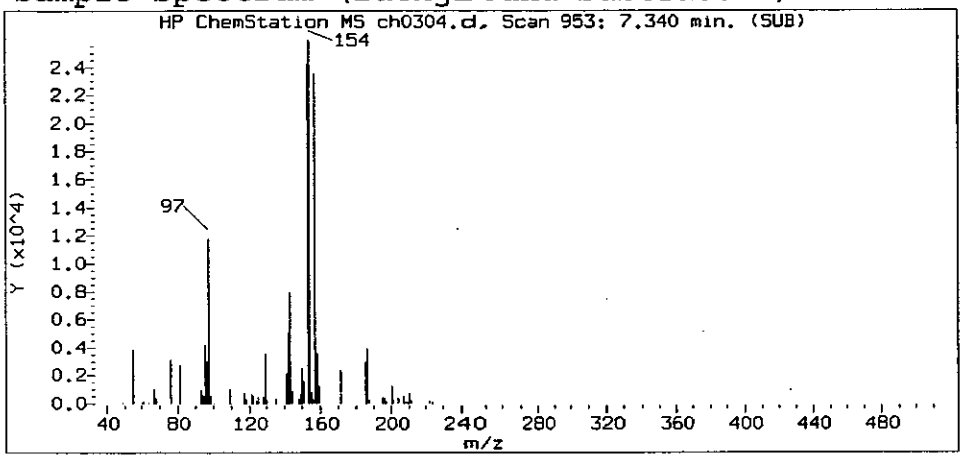
8114

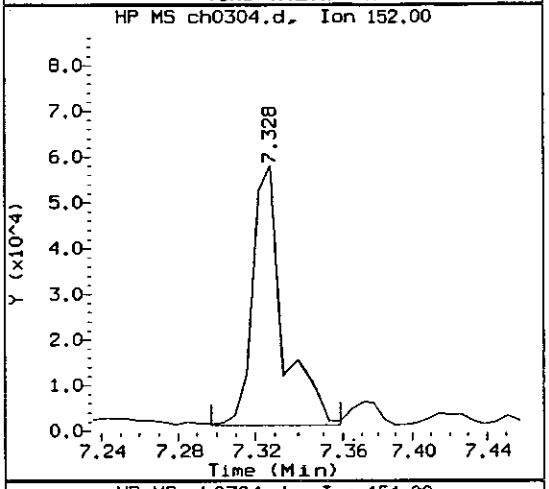
Reference Standard Spectrum for Acenaphthene



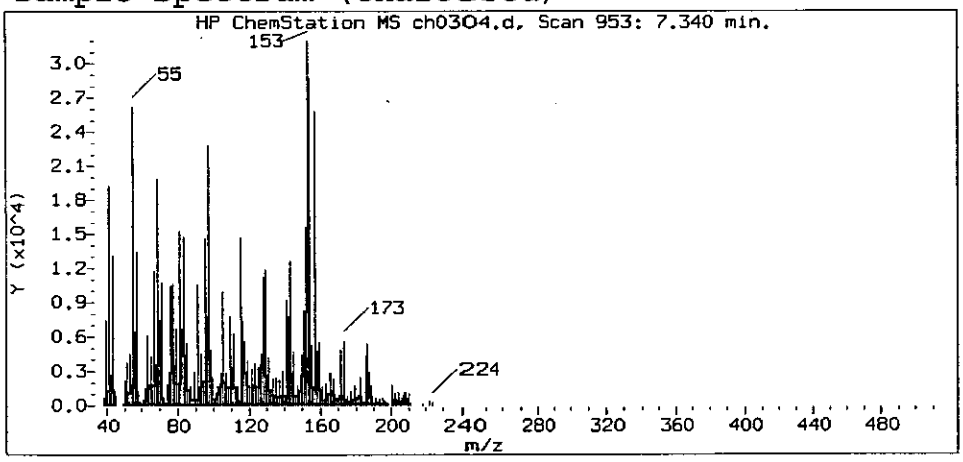


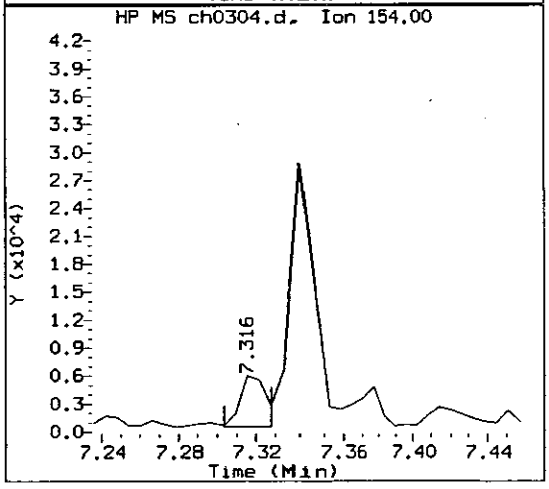
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

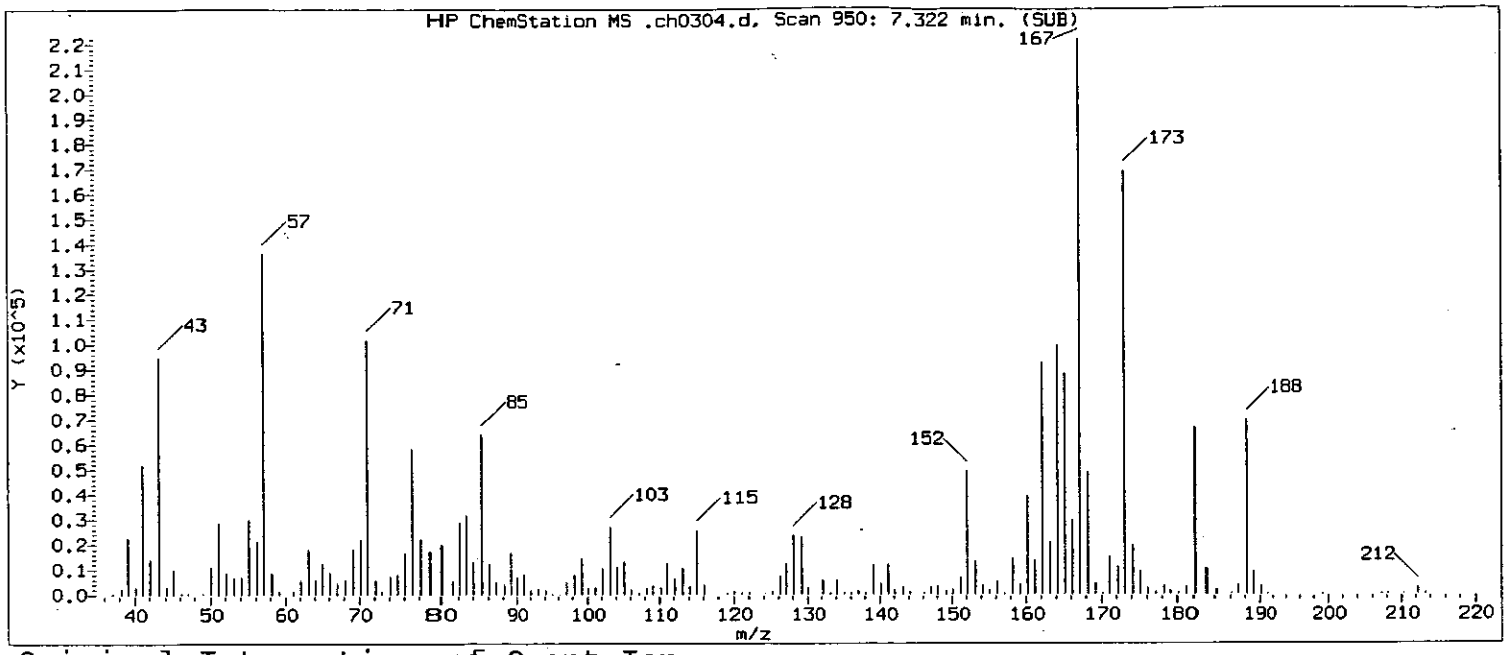
Sample Name: TP218

Lab Sample ID: 5118304

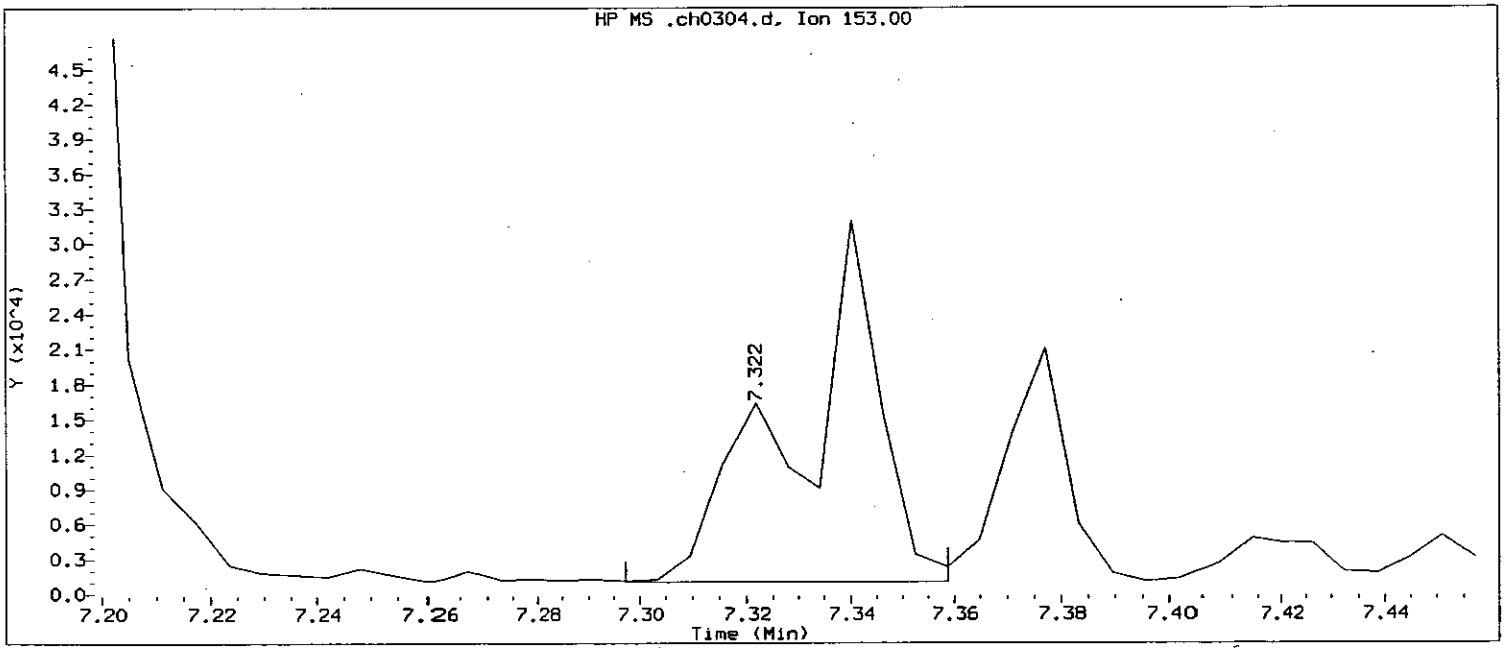
Compound Number	: 83
Compound Name	: Acenaphthene
Scan Number	: 953
Retention Time (minutes)	: 7.340
Quant Ion	: 153.0
Area (flag)	: 20309 M
Concentration (ng/ul)	: 2.9681

0015

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

Sample Name: TP218 Lab Sample ID: 5118304

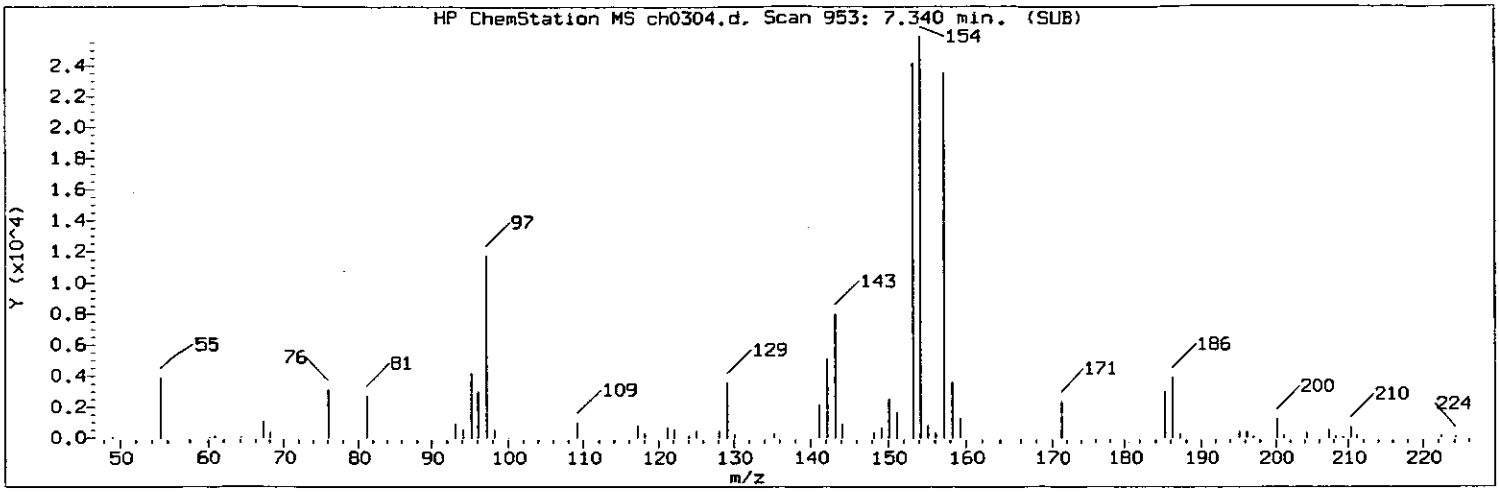
Compound Number	: 83
Compound Name	: Acenaphthene
Scan Number	: 950
Retention Time (minutes)	: 7.322
Quant Ion	: 153
Area	: 34756
Concentration (ng/ul)	: 5.0795
Integration start scan	: 945
Integration stop scan	: 955
Y at integration start	: 1041
Y at integration end	: 1041

BGon 8/10/07

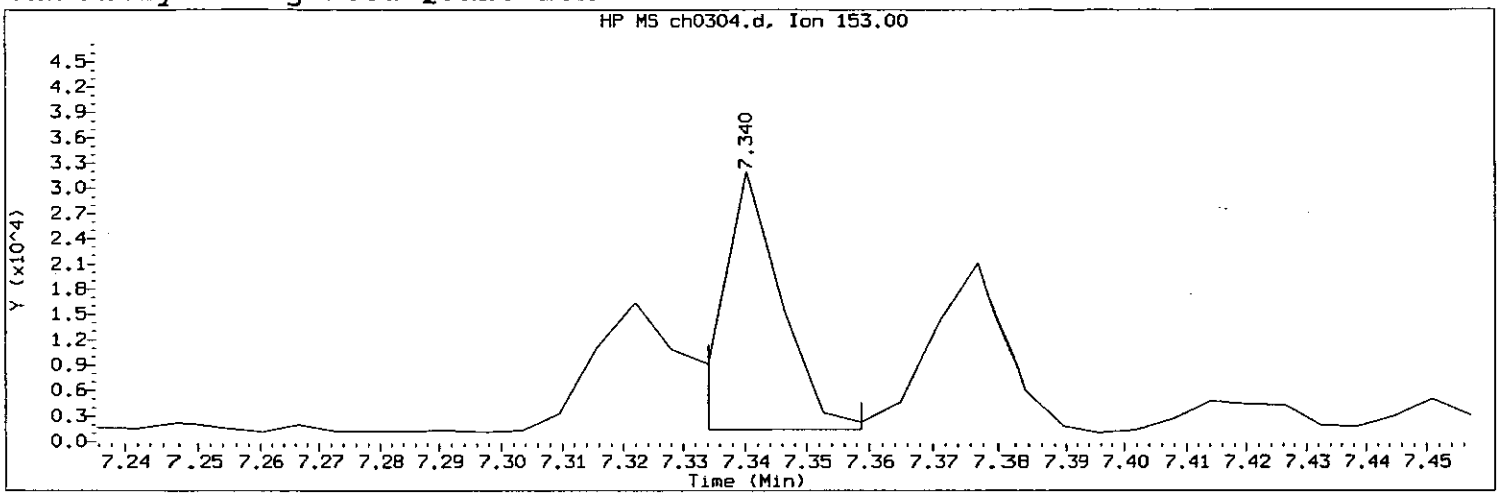
8116

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

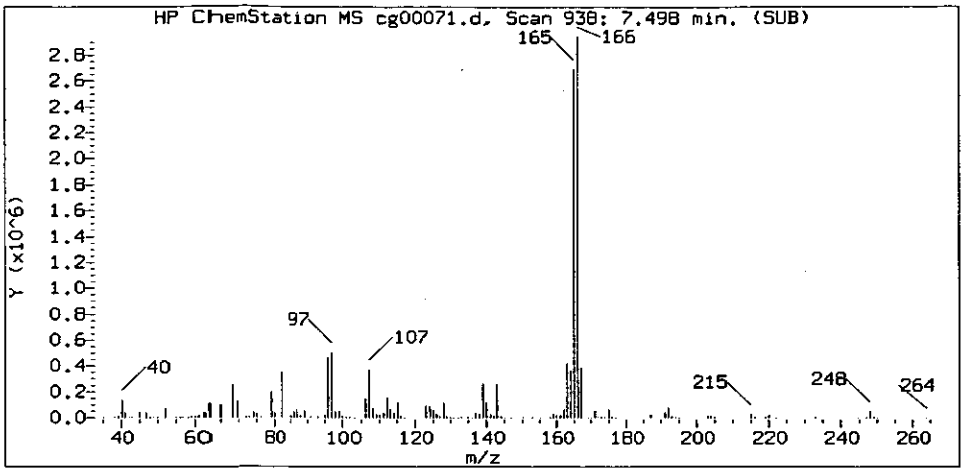
Compound Number : 83
Compound Name : Acenaphthene
Scan Number : 953
Retention Time (minutes): 7.340
Quant Ion : 153
Area (flag) : 20309 M
Concentration (ng/ul) : 2.9681
Integration start scan : 951 Integration stop scan: 955
Y at integration start : 1417 Y at integration end: 1417

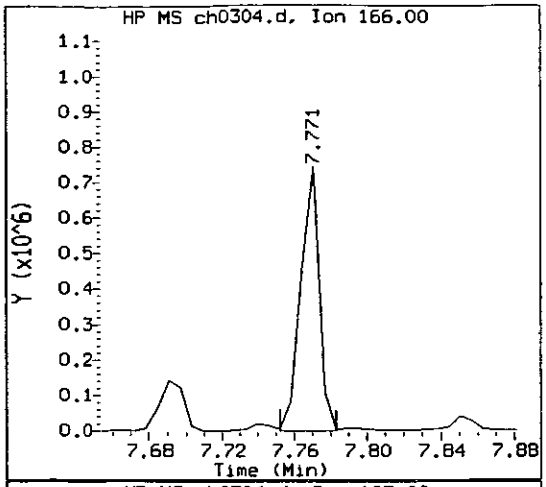
Reason for manual integration (circle one): missed peak (improper integratic

Analyst responsible for change: [signature] 8117 9/12/07

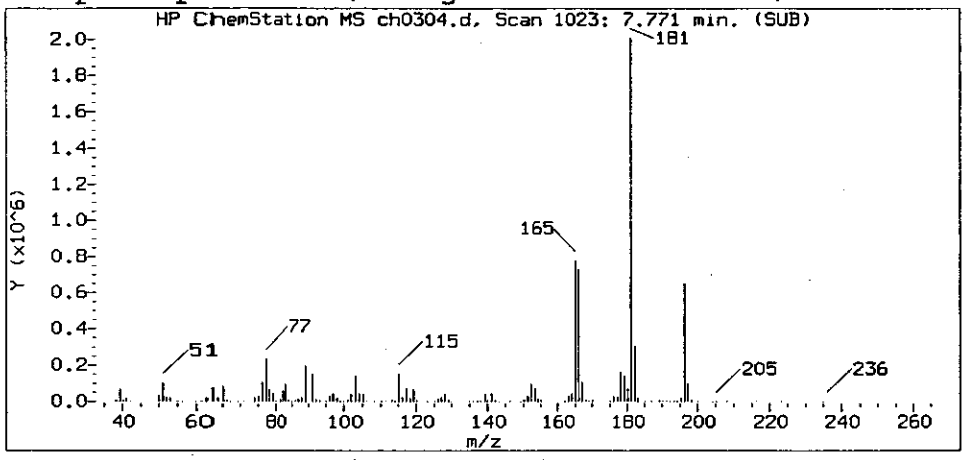
GC/MS audit/management approval: _____

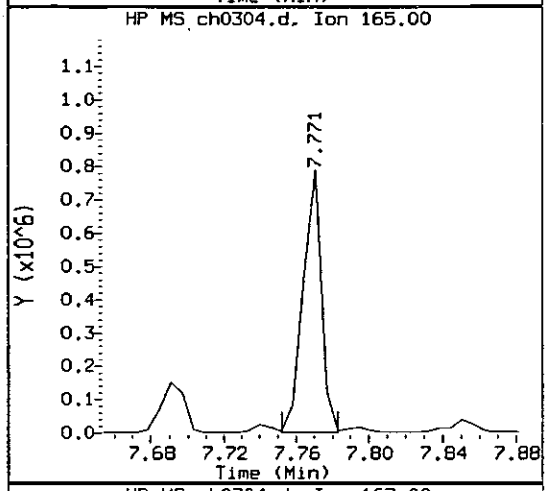
Reference Standard Spectrum for Fluorene



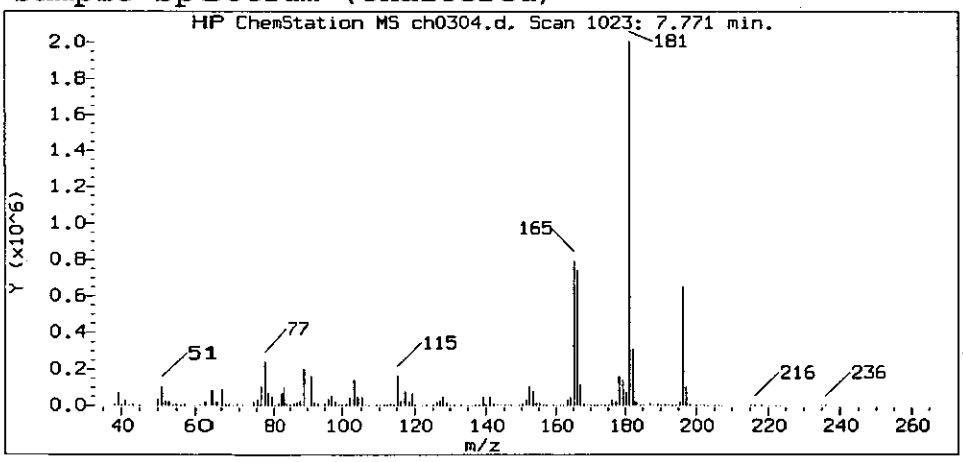


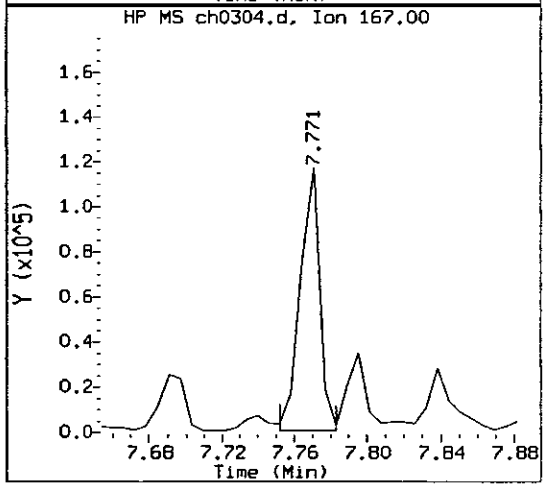
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

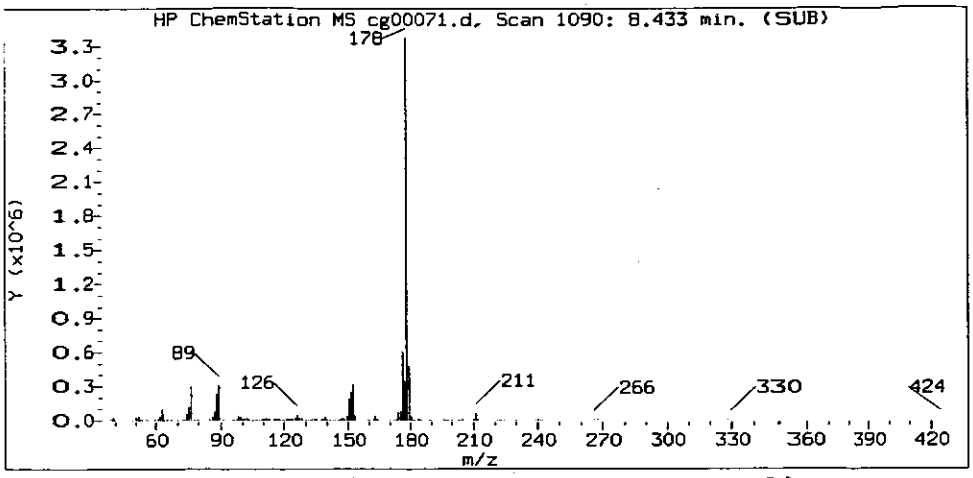
Sample Name: TP218

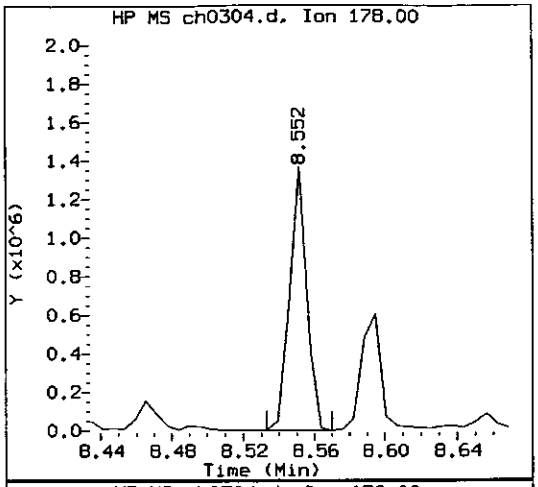
Lab Sample ID: 5118304

Compound Number	: 94
Compound Name	: Fluorene
Scan Number	: 1023
Retention Time (minutes)	: 7.771
Quant Ion	: 166.0
Area (flag)	: 512452
Concentration (ng/ul)	: 62.7178

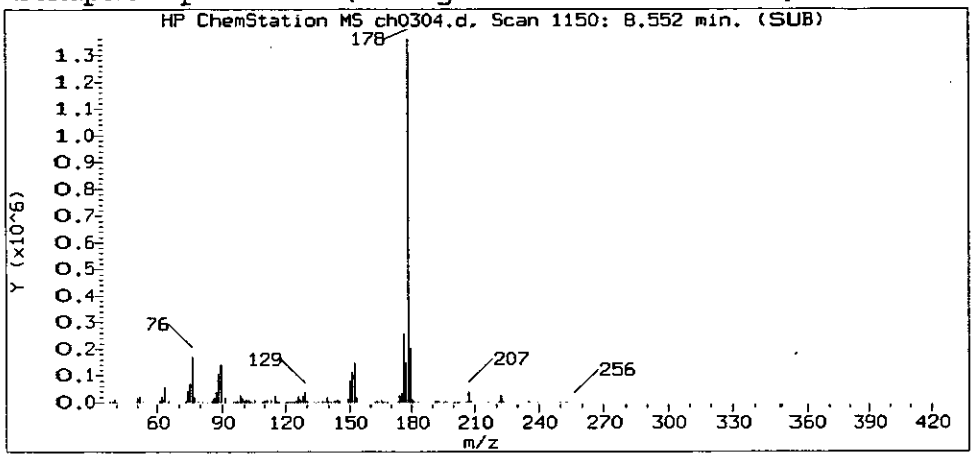
5118

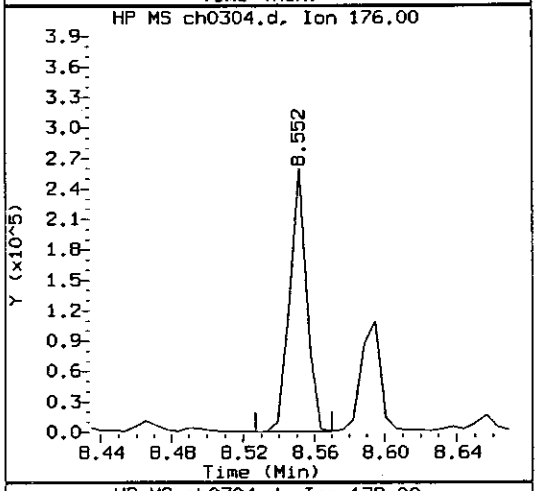
Reference Standard Spectrum for Phenanthrene



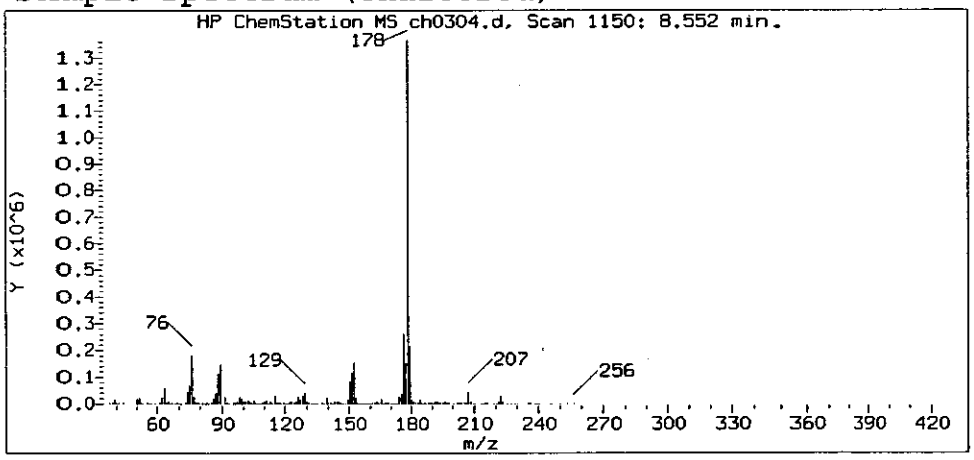


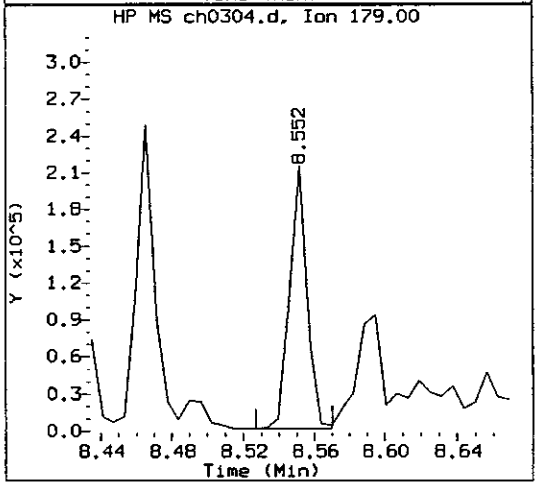
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

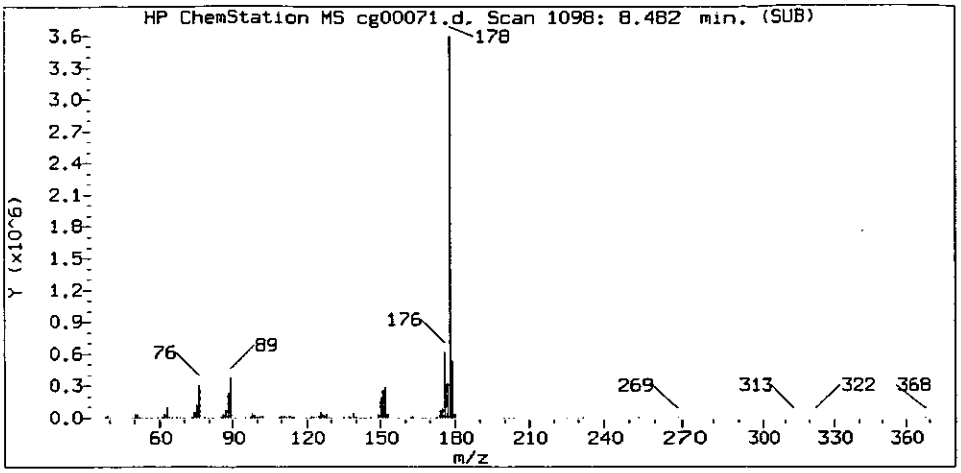
Sample Name: TP218

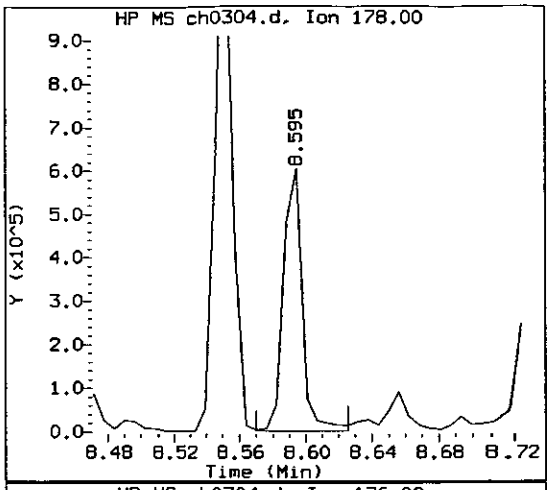
Lab Sample ID: 5118304

Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1150
Retention Time (minutes)	: 8.552
Quant Ion	: 178.0
Area (flag)	: 906682
Concentration (ng/ul)	: 81.4236

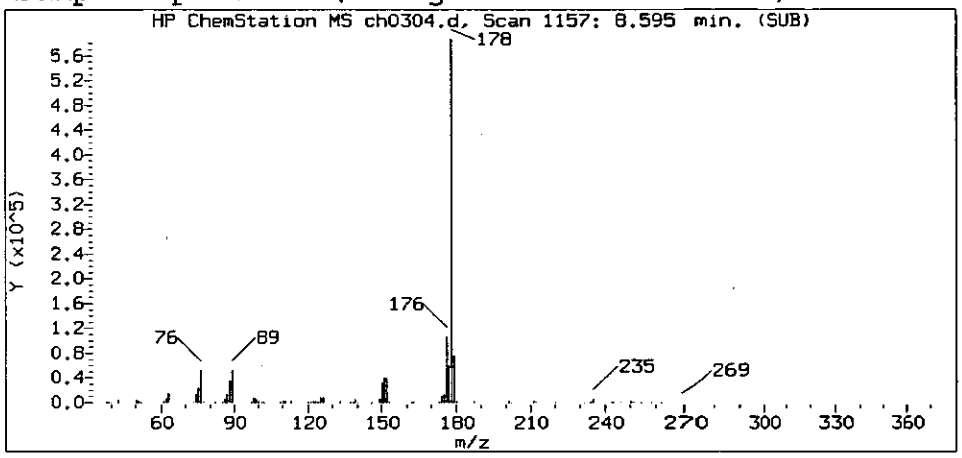
0119

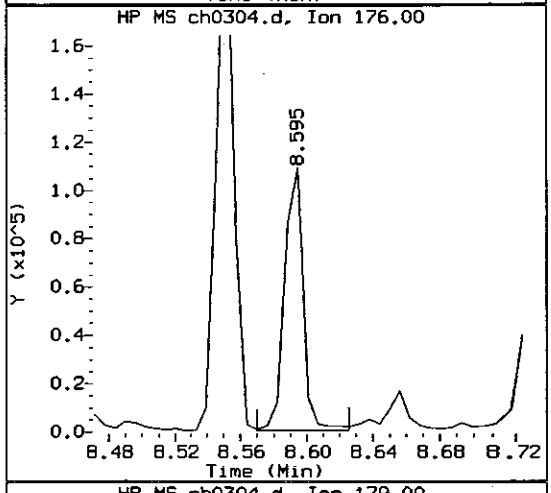
Reference Standard Spectrum for Anthracene



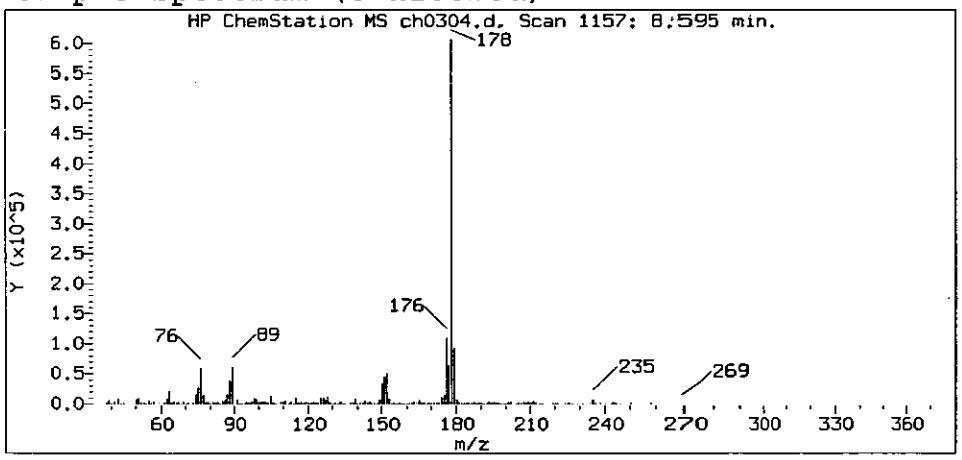


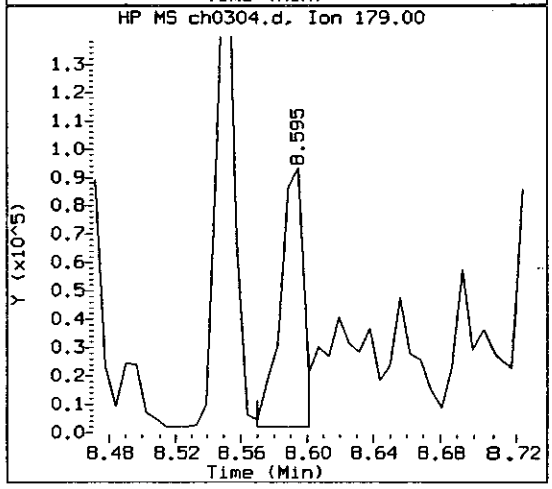
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

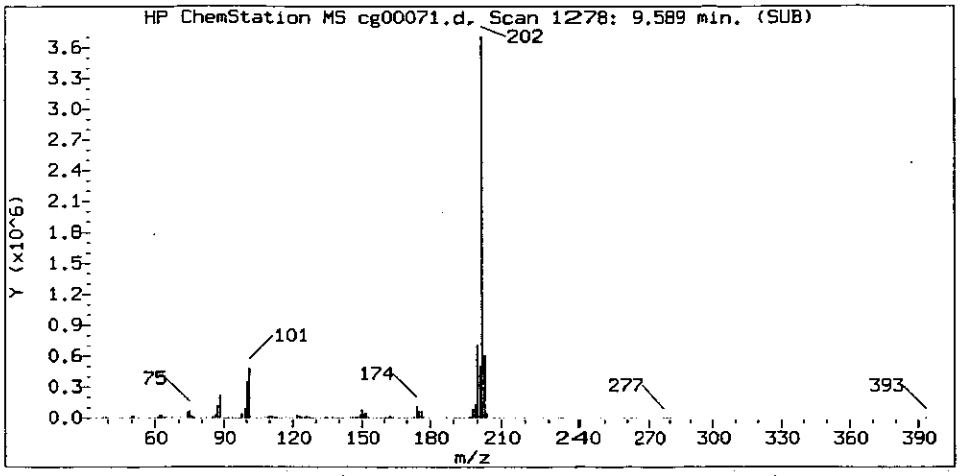
Sample Name: TP218

Lab Sample ID: 5118304

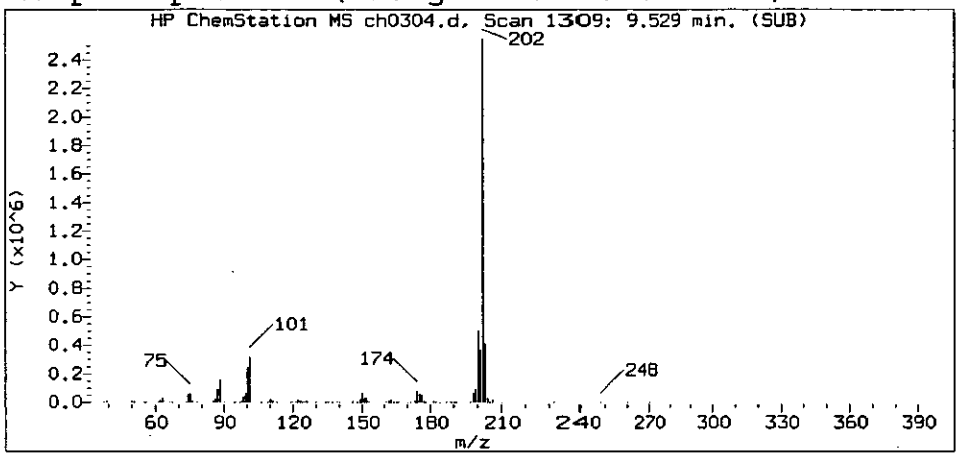
Compound Number	: 124
Compound Name	: Anthracene
Scan Number	: 1157
Retention Time (minutes)	: 8.595
Quant Ion	: 178.0
Area (flag)	: 474579
Concentration (ng/ul)	: 41.3150

8120

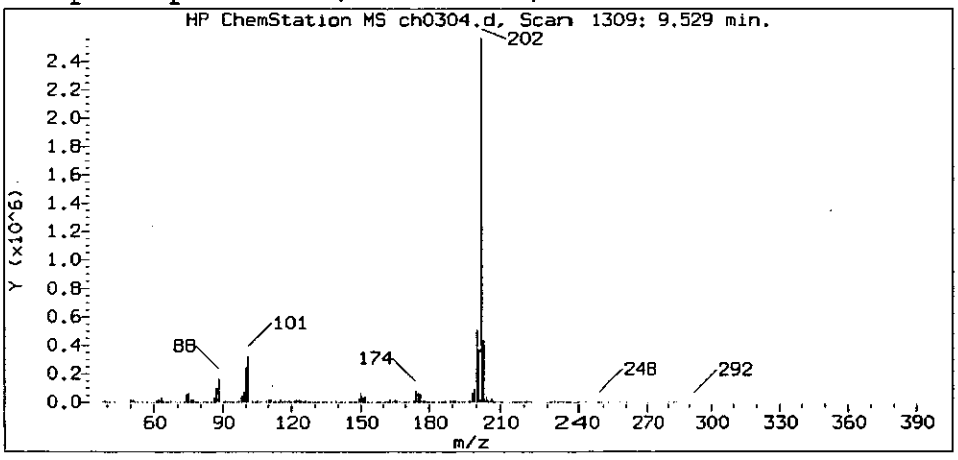
Reference Standard Spectrum for Fluoranthene

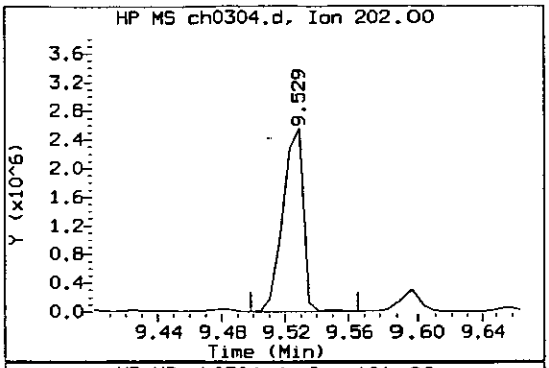


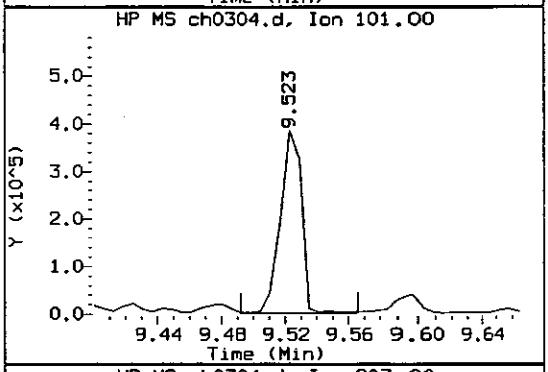
Sample Spectrum (Background Subtracted)

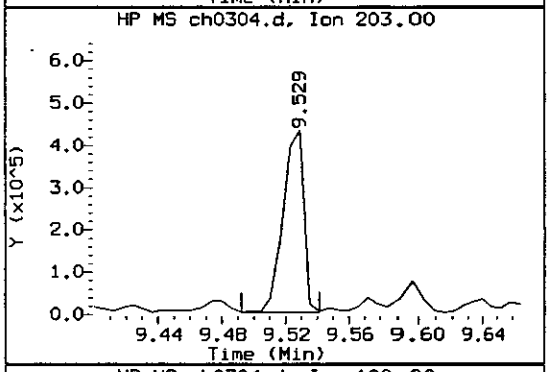


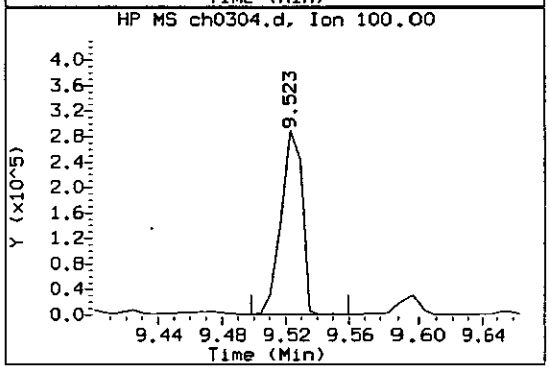
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

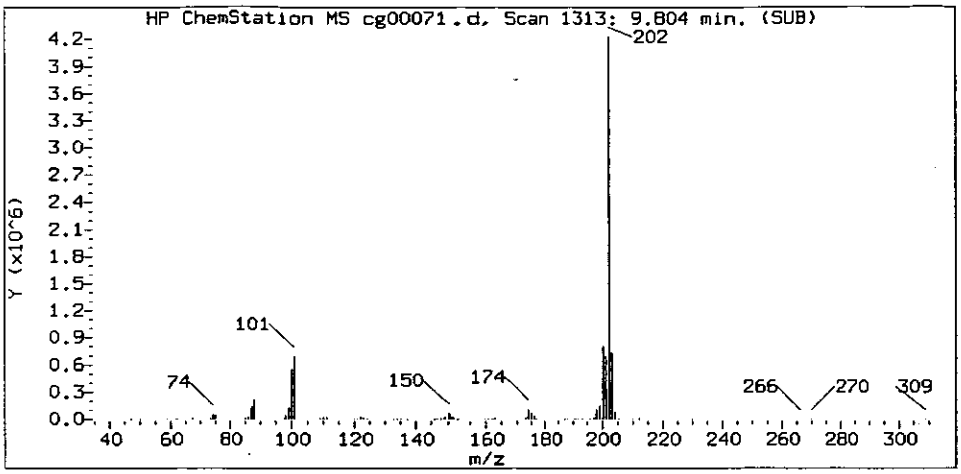
Sample Name: TP218

Lab Sample ID: 5118304

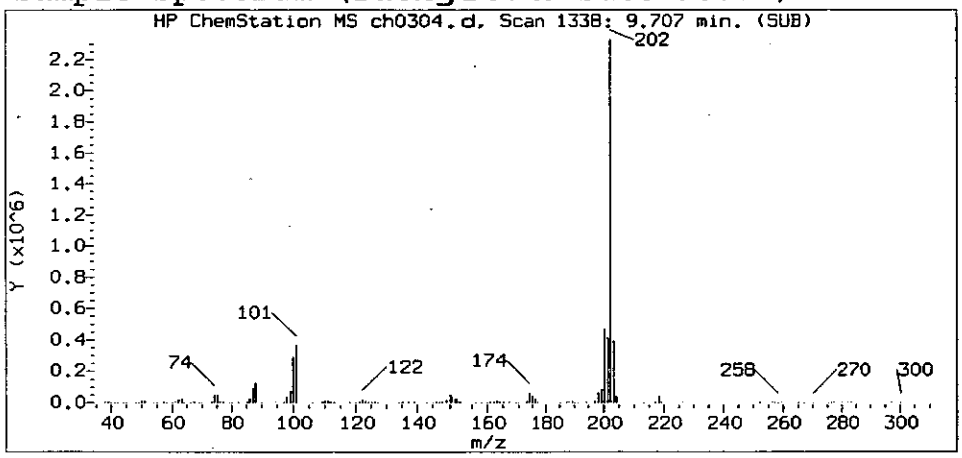
Compound Number	: 134
Compound Name	: Fluoranthene
Scan Number	: 1309
Retention Time (minutes)	: 9.529
Quant Ion	: 202.0
Area (flag)	: 2294423
Concentration (ng/ul)	: 183.9083

8121

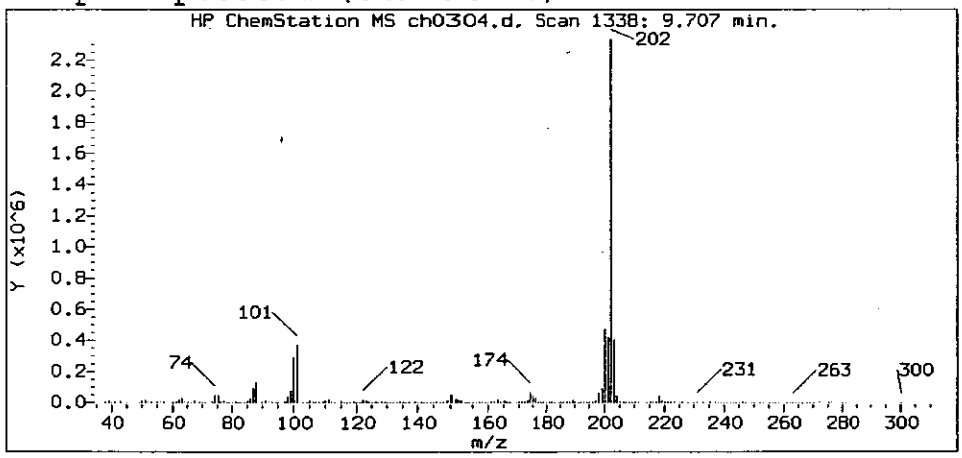
Reference Standard Spectrum for Pyrene

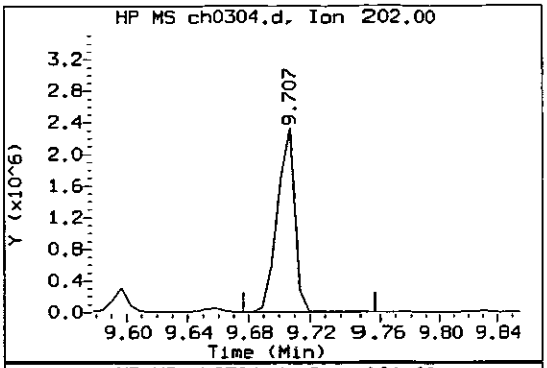


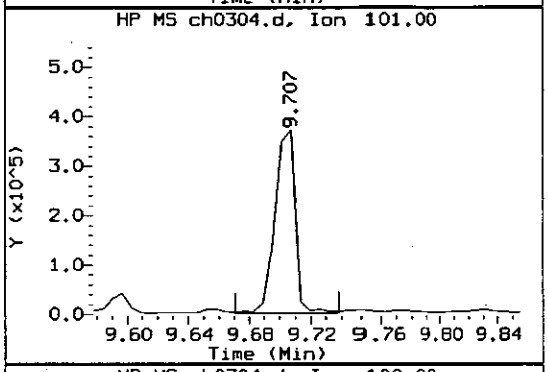
Sample Spectrum (Background Subtracted)

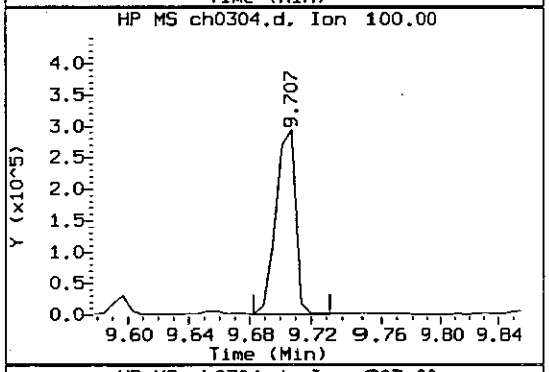


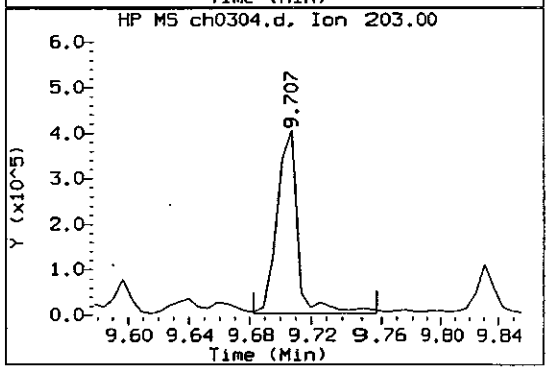
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: facO1858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

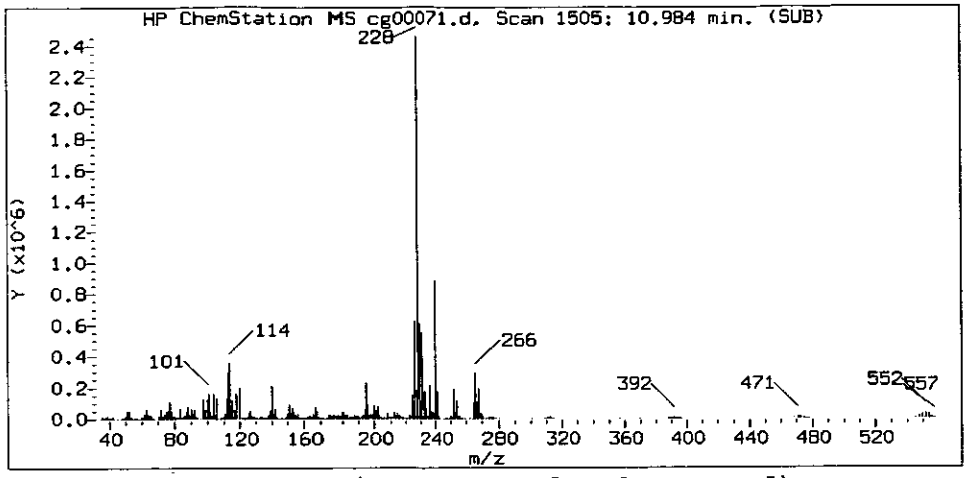
Sample Name: TP218

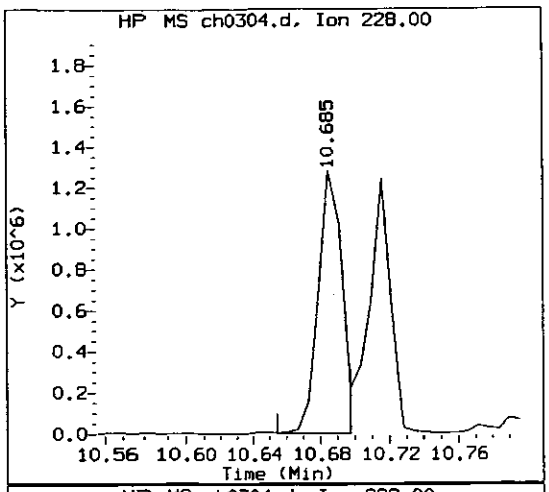
Lab Sample ID: 5118304

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1338
Retention Time (minutes)	: 9.707
Quant Ion	: 202.0
Area (flag)	: 1847934
Concentration (ng/ul)	: 197.5339

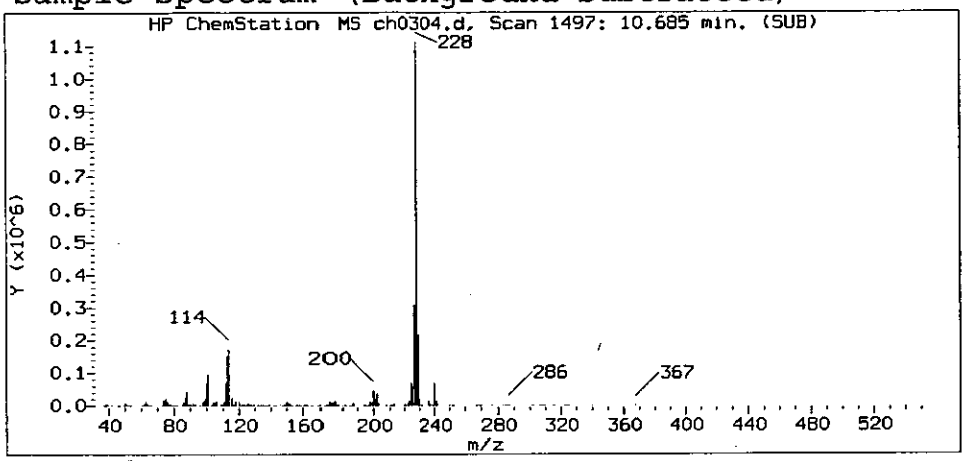
8122

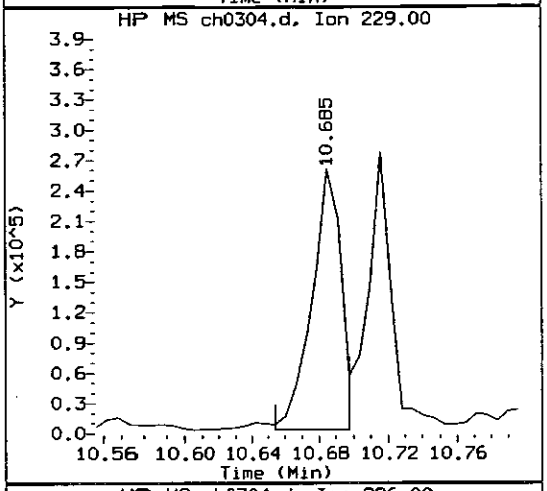
Reference Standard Spectrum for Benzo(a)anthracene



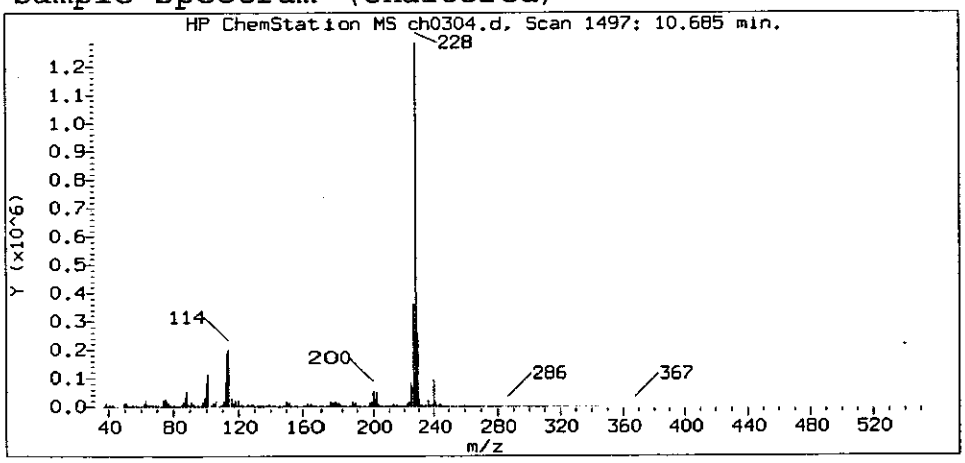


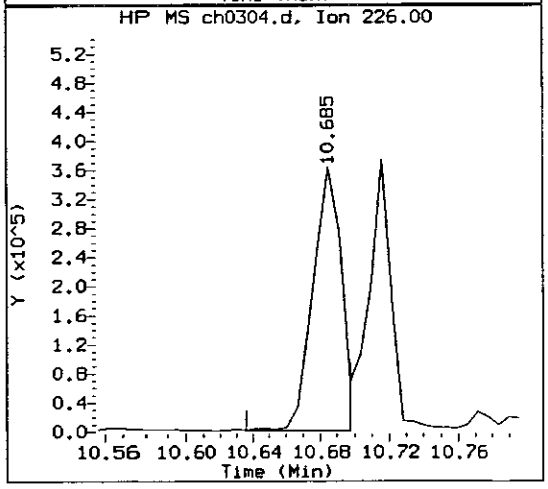
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

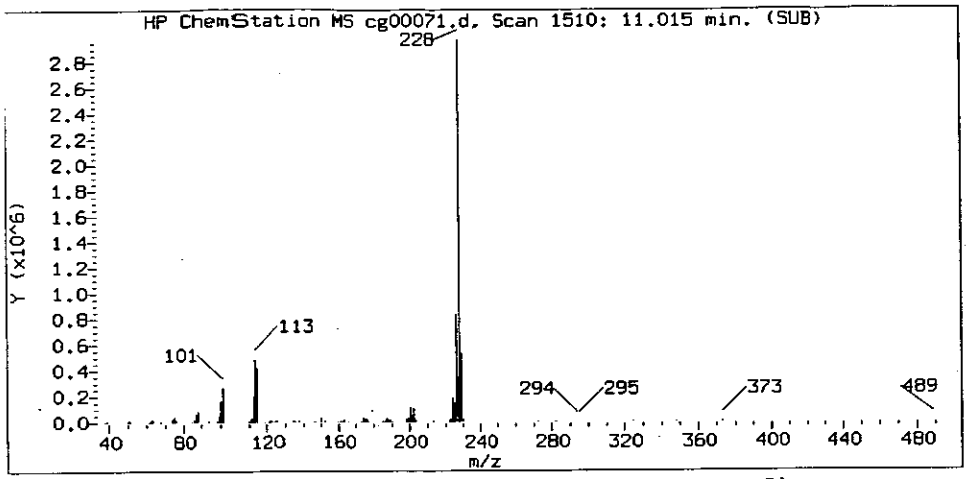
Sample Name: TP218

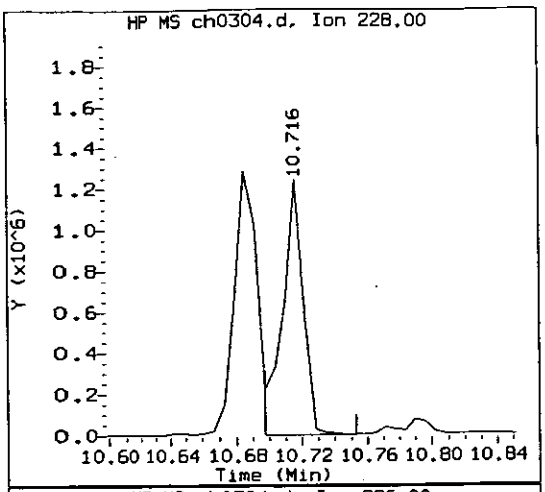
Lab Sample ID: 5118304

Compound Number	: 146
Compound Name	: Benzo(a)anthracene
Scan Number	: 1497
Retention Time (minutes)	: 10.685
Quant Ion	: 228.0
Area (flag)	: 1203725
Concentration (ng/ul)	: 142.4078

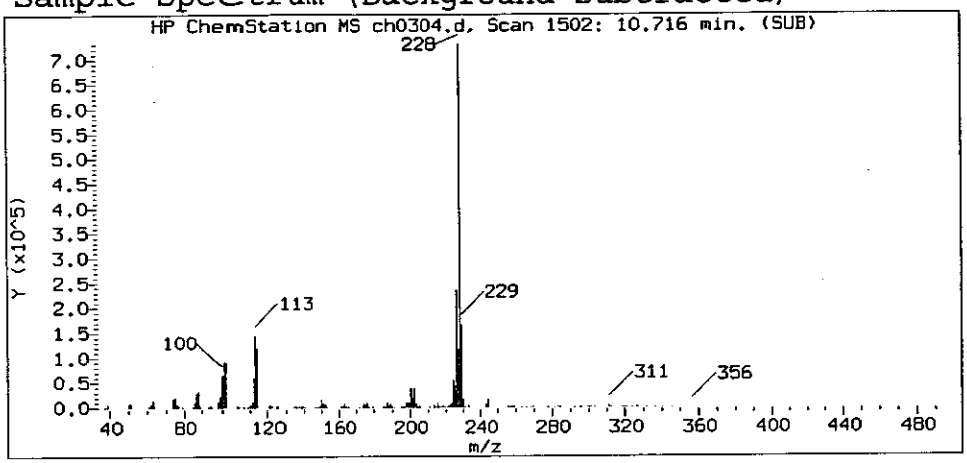
8123

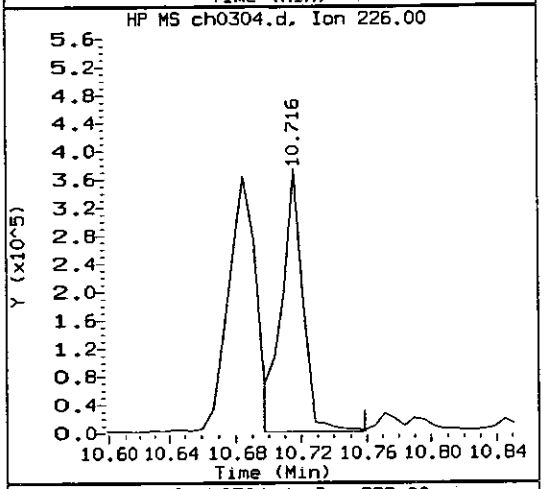
Reference Standard Spectrum for Chrysene



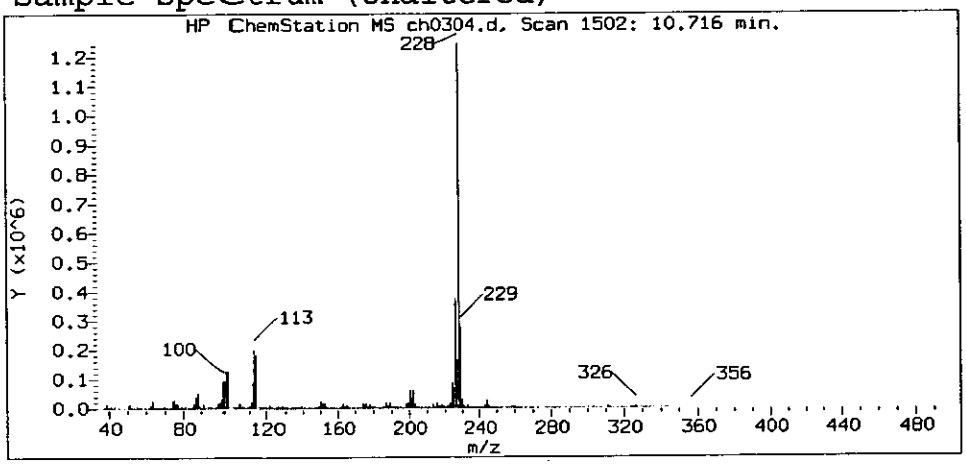


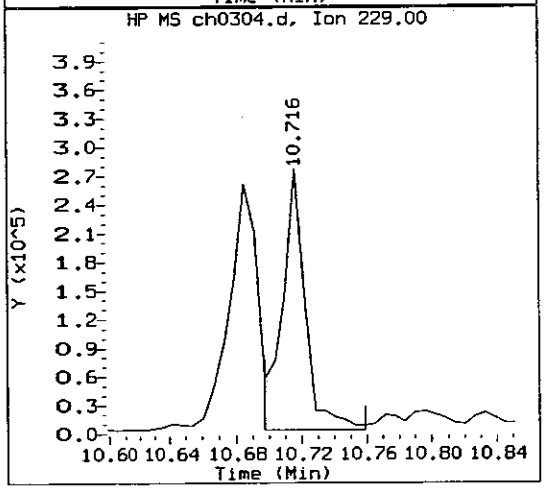
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

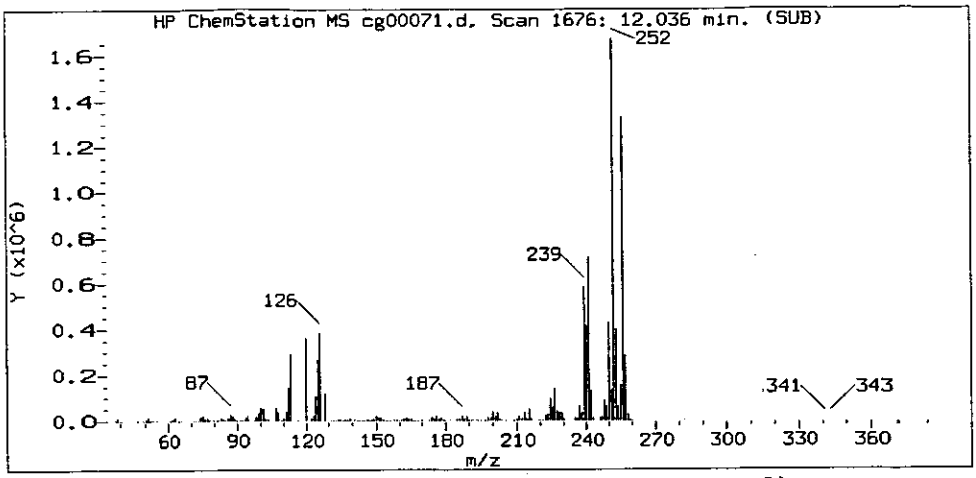
Sample Name: TP218

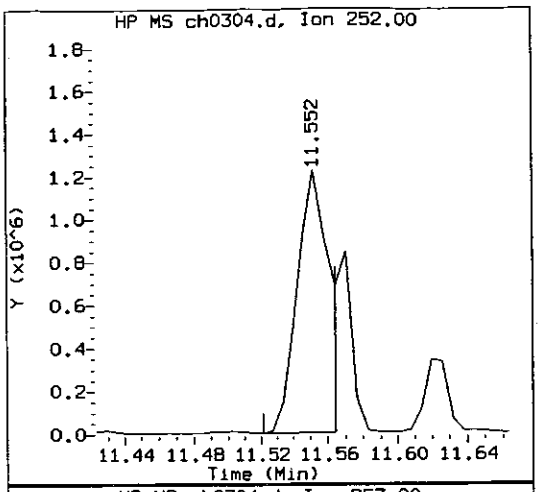
Lab Sample ID: 5118304

Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1502
Retention Time (minutes)	: 10.716
Quant Ion	: 228.0
Area (flag)	: 1089244
Concentration (ng/ul)	: 130.5804

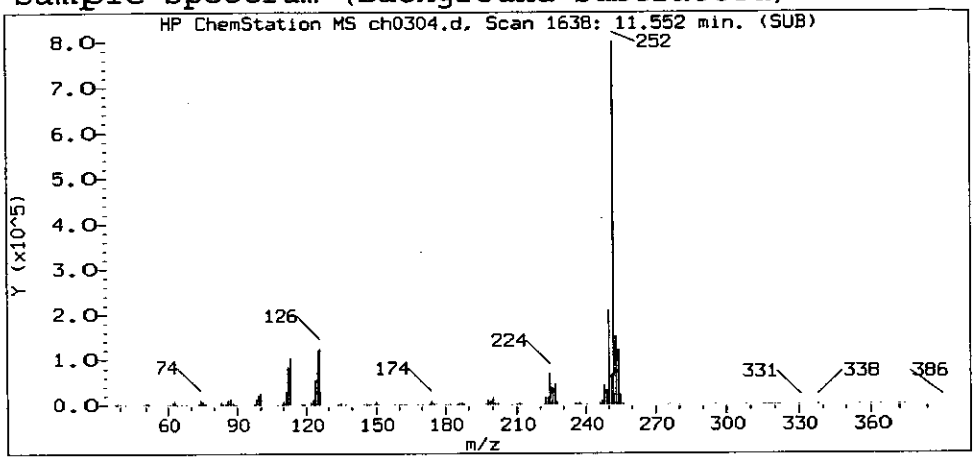
8124

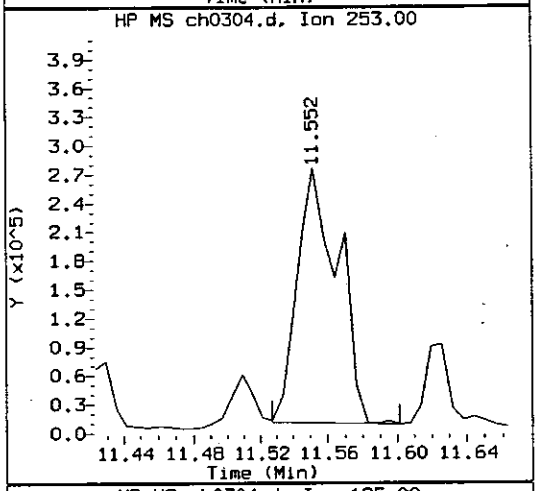
Reference Standard Spectrum for Benzo(b)fluoranthene



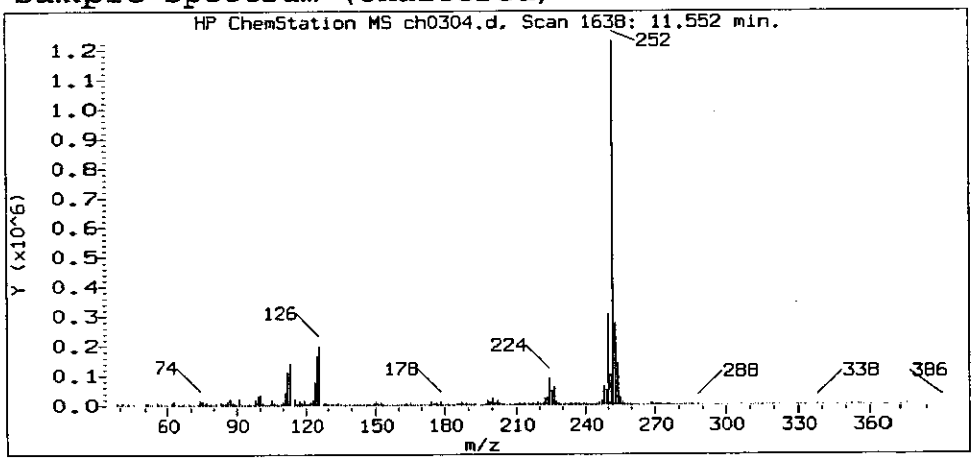


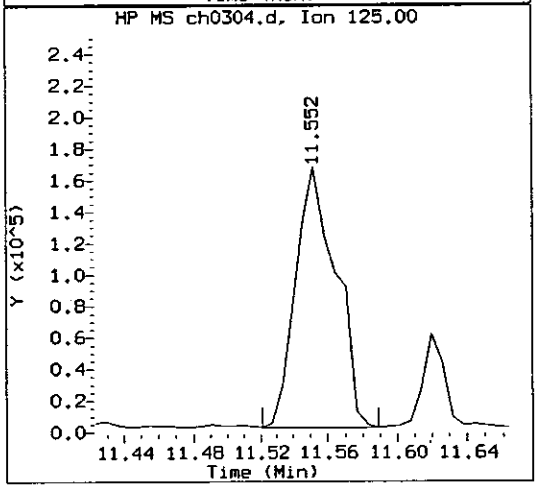
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

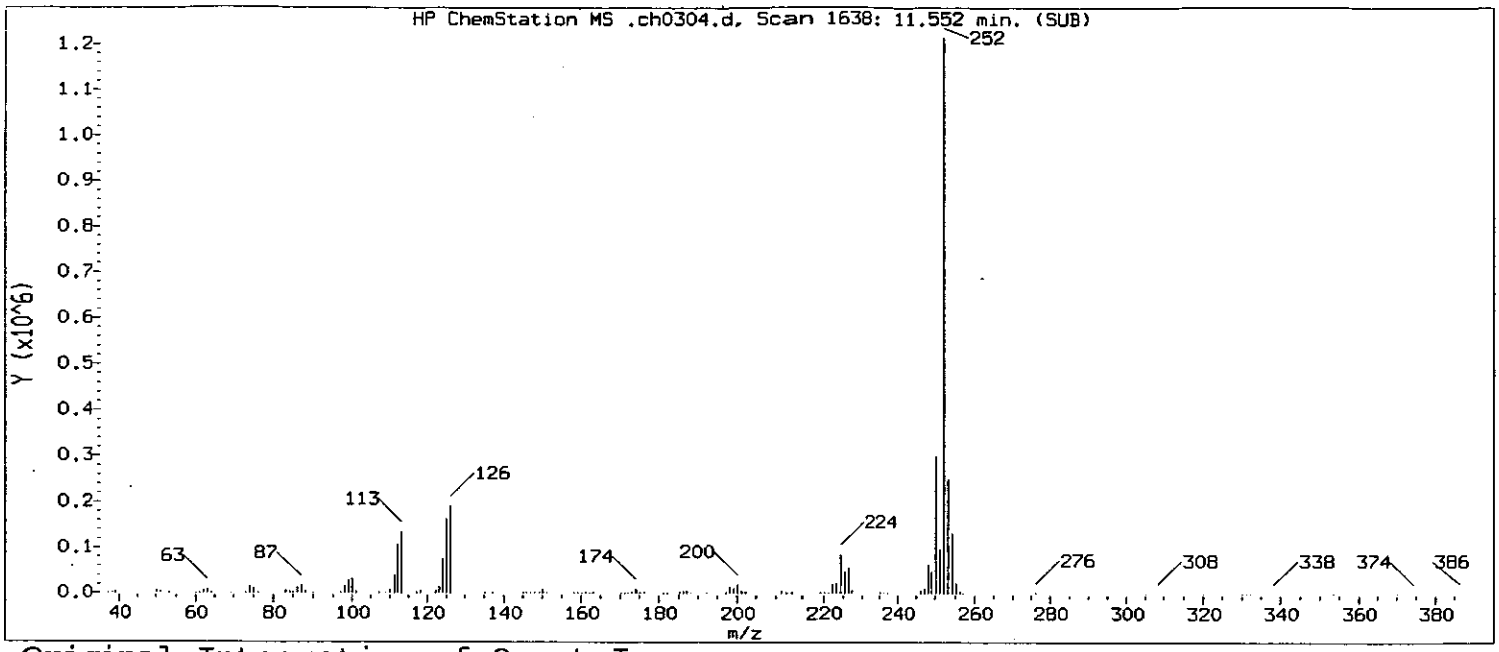
Sample Name: TP218

Lab Sample ID: 5118304

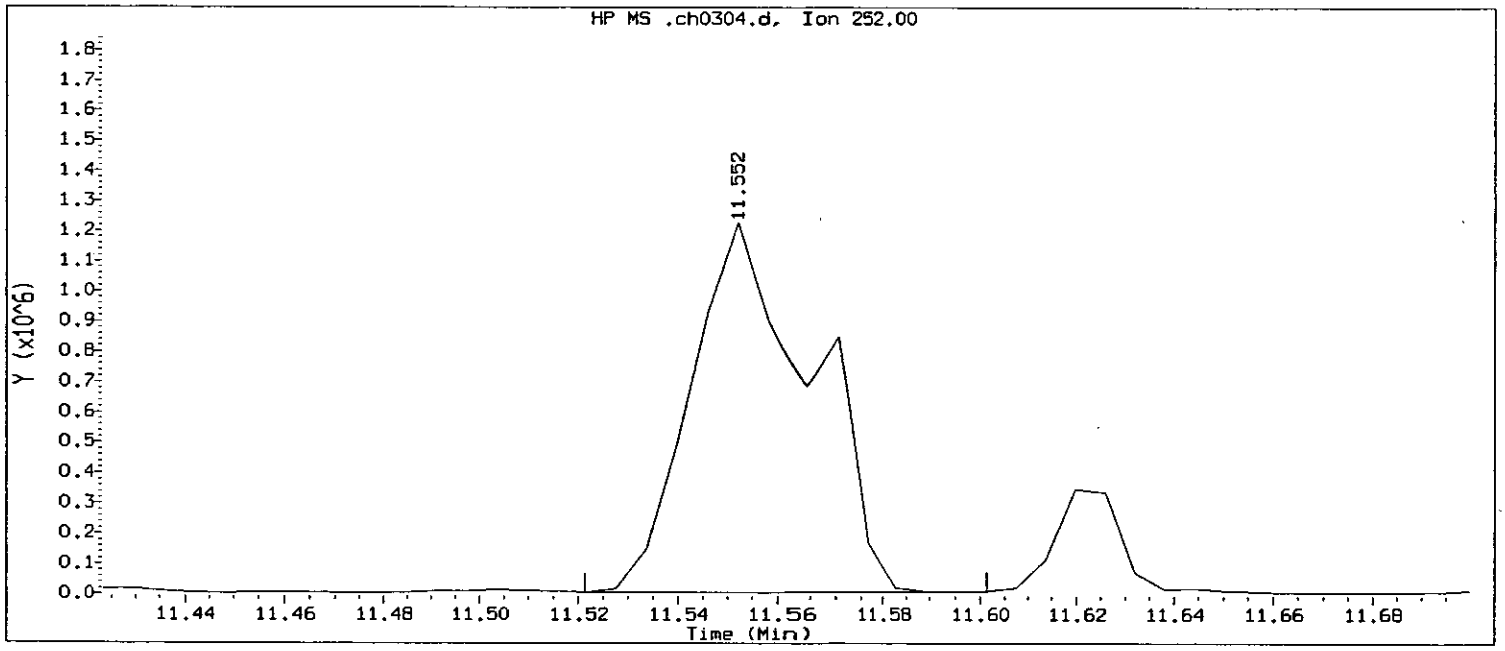
Compound Number	: 158
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1638
Retention Time (minutes)	: 11.552
Quant Ion	: 252.0
Area (flag)	: 1612442 M
Concentration (ng/ul)	: 177.5814

0125

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

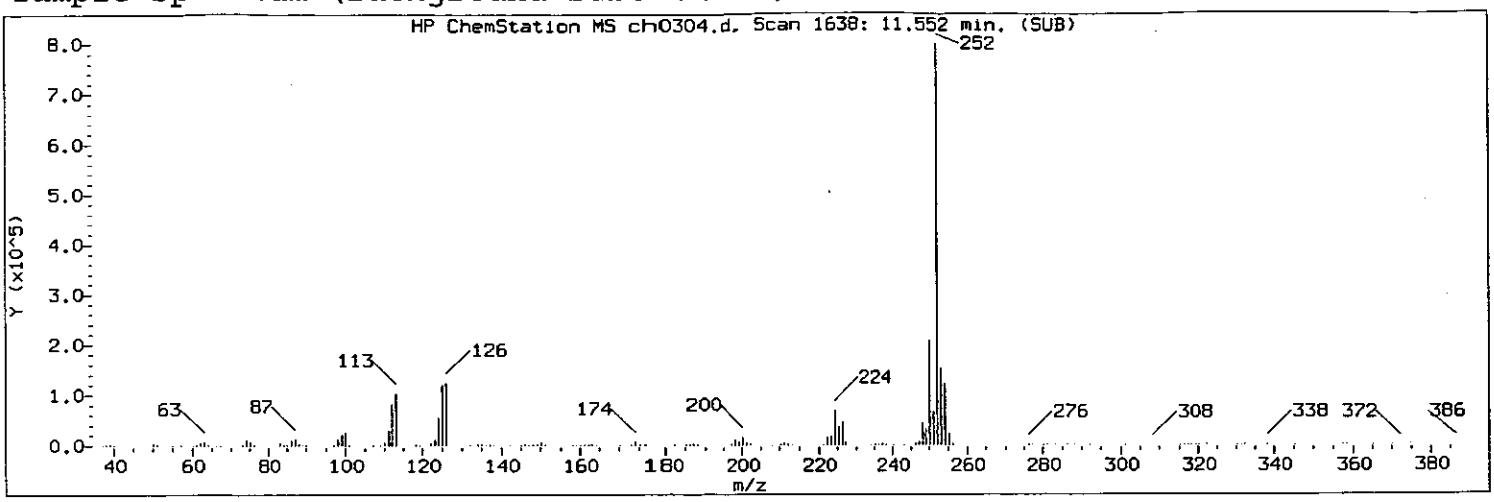
Sample Name: TP218 Lab Sample ID: 5118304

Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1638
Retention Time (minutes): 11.552
Quant Ion : 252
Area : 1989942
Concentration (ng/ul) : 199.2769
Integration start scan : 1632 Integration stop scan: 1645
Y at integration start : 6146 Y at integration end: 8871

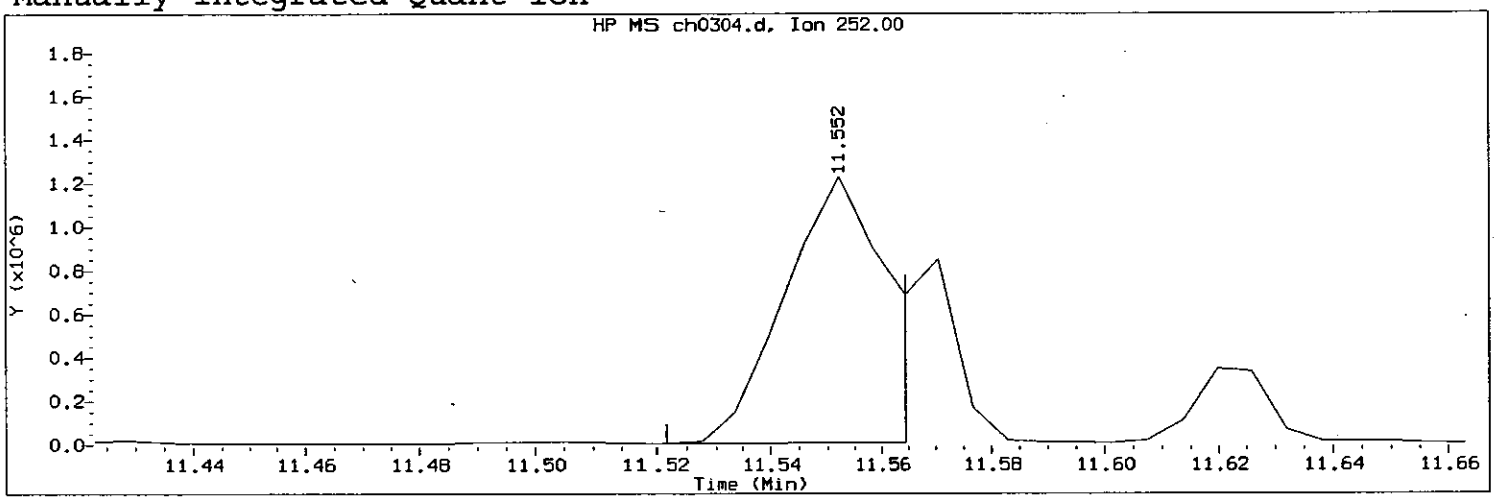
B126

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1638
Retention Time (minutes)	:	11.552
Quant Ion	:	252
Area (flag)	:	1612442 M
Concentration (ng/ul)	:	177.5814
Integration start scan	:	1632 Integration stop scan: 1639
Y at integration start	:	6146 Y at integration end: 7613

Reason for manual integration (circle one): missed peak (improper integratio

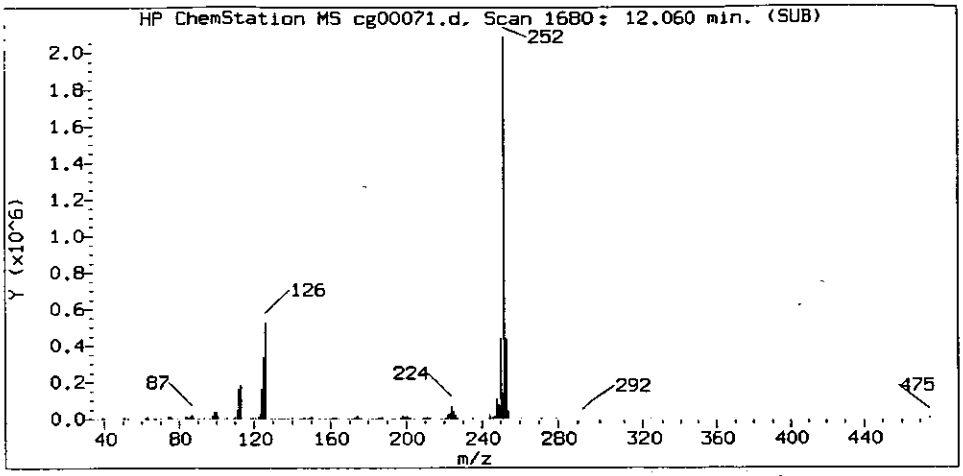
Analyst responsible for change: [signature] 8/10/07

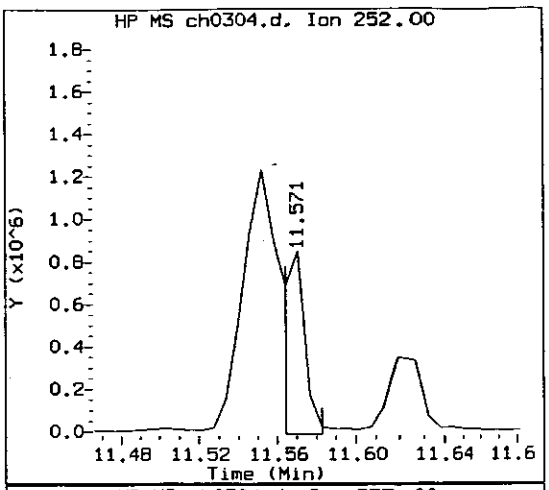
0127 [signature] 8/13/07

GC/MS audit/management approval: _____

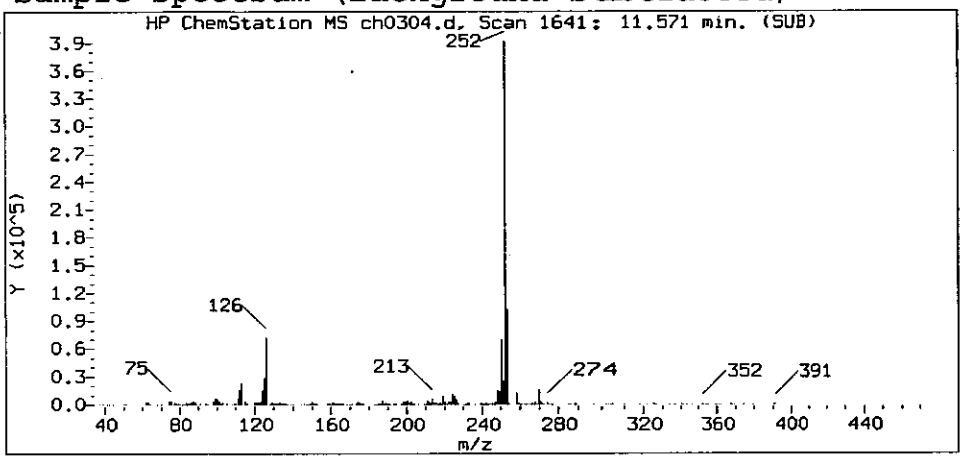
Manual Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

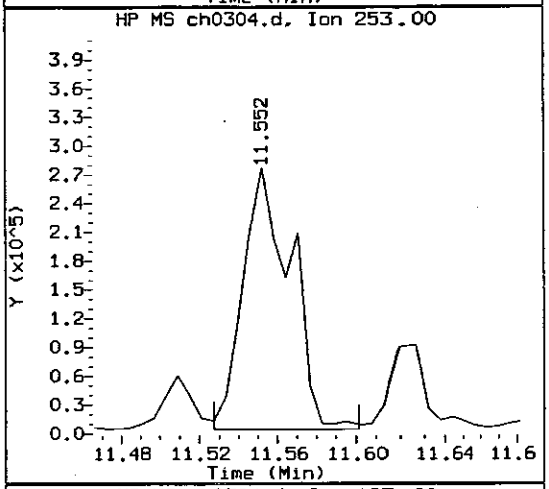
Reference Standard Spectrum for Benzo(k)fluoranthene



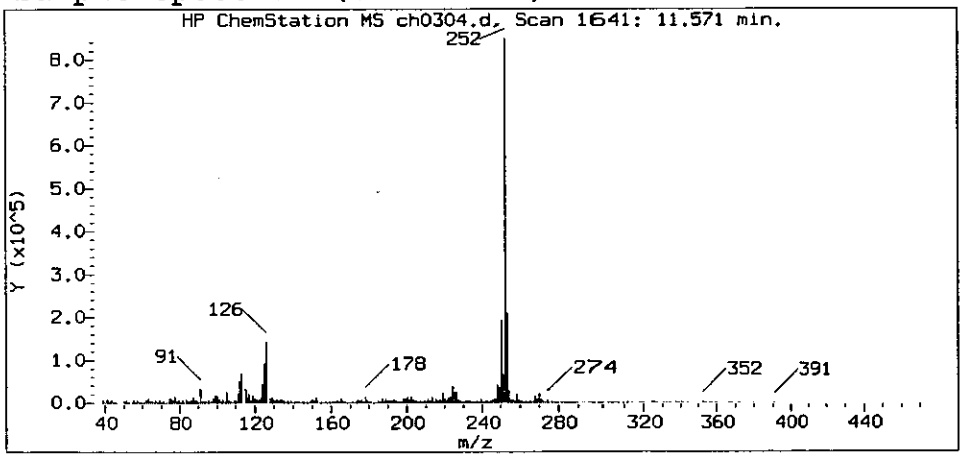


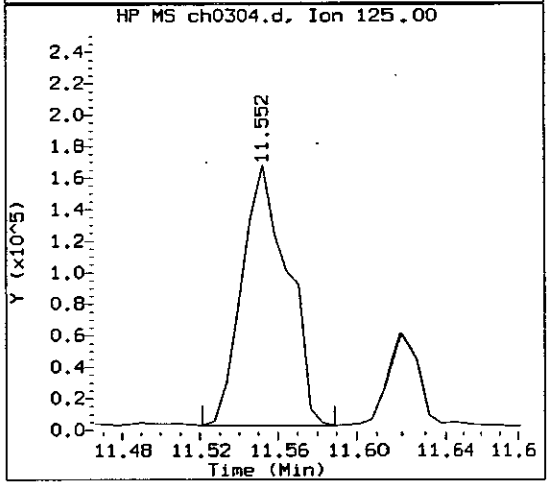
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

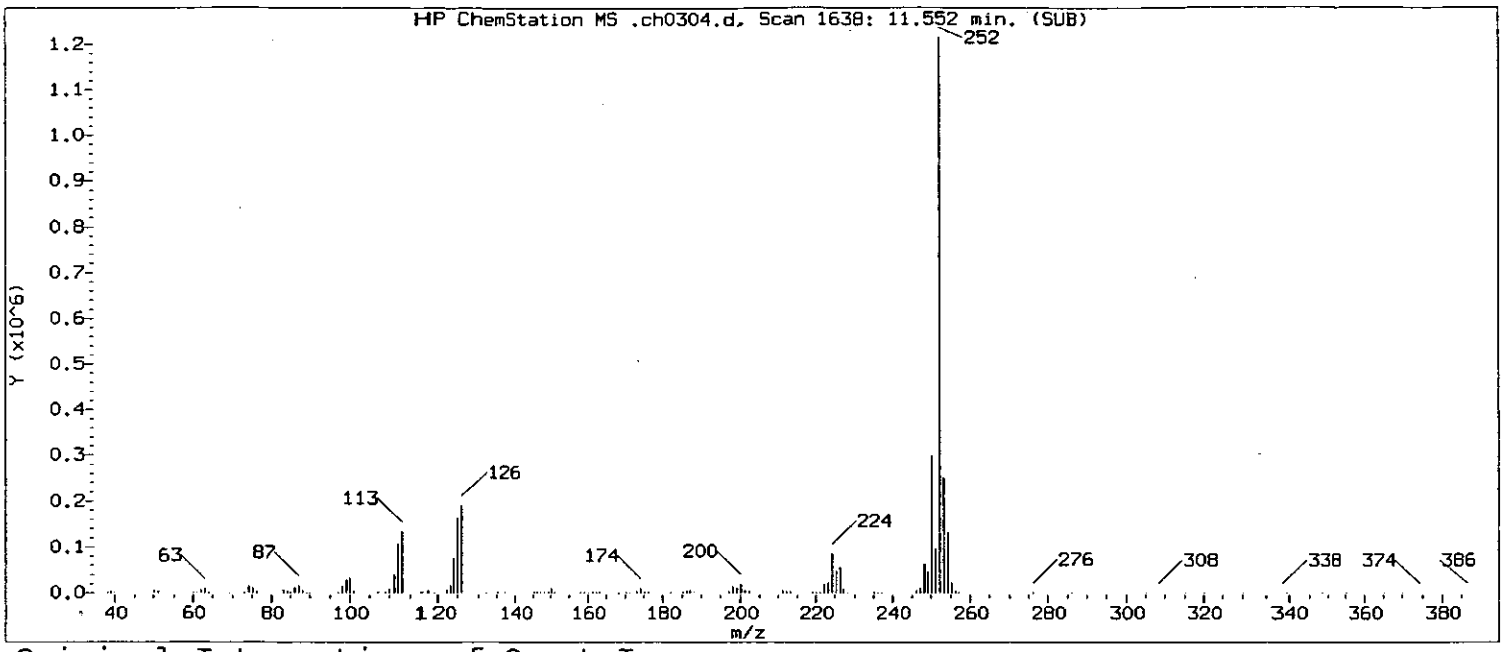
Sample Name: TP218

Lab Sample ID: 5118304

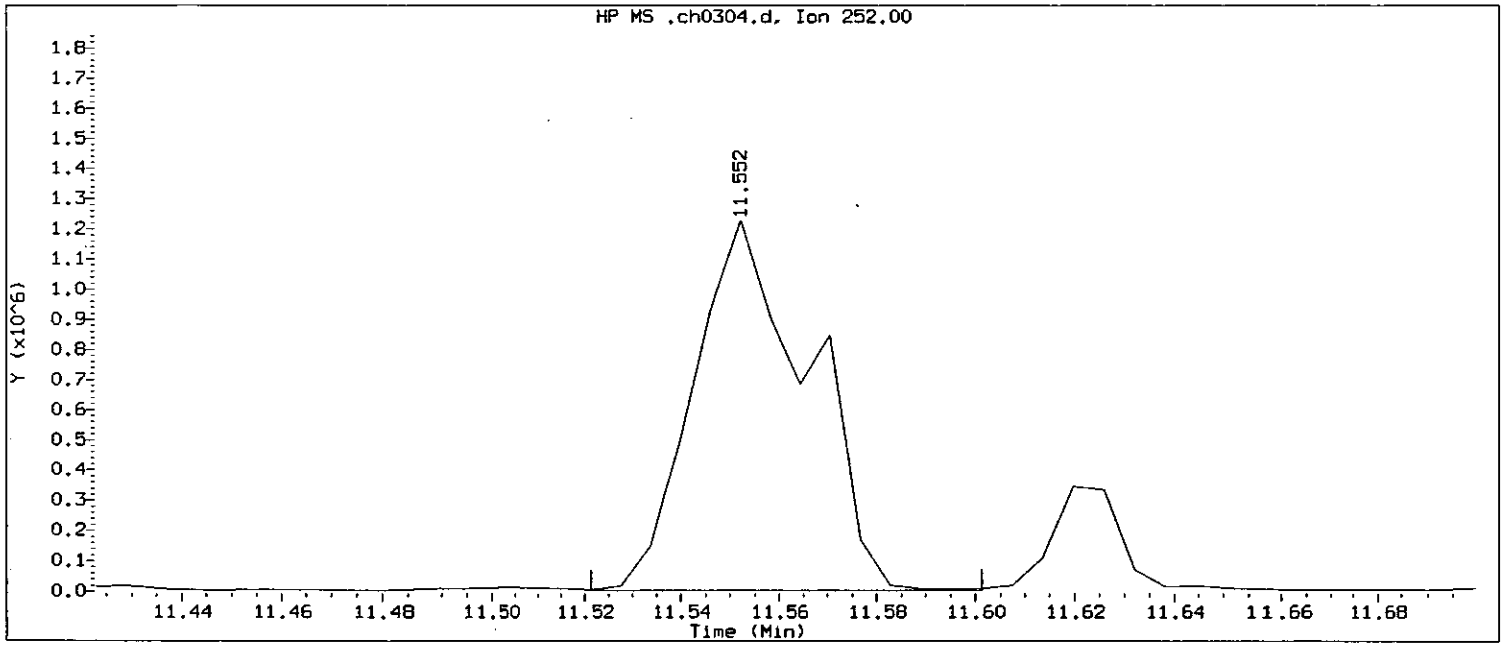
Compound Number	:	159
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1641
Retention Time (minutes)	:	11.571
Quant Ion	:	252.0
Area (flag)	:	655473 M
Concentration (ng/ul)	:	64.2347

8128

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

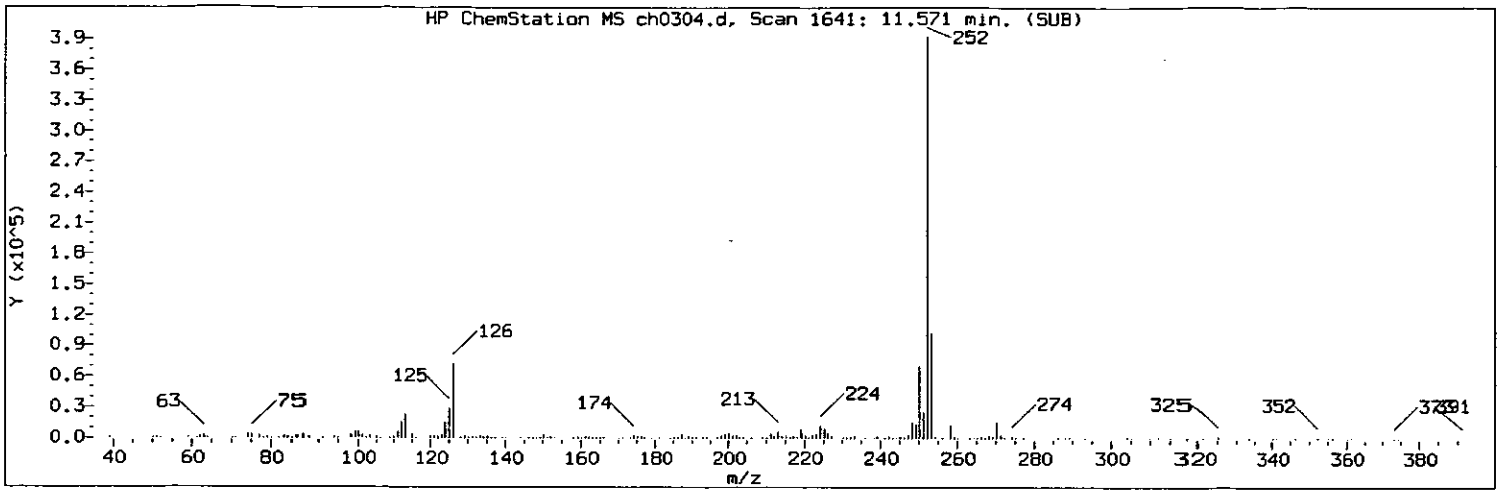
Sample Name: TP218 Lab Sample ID: 5118304

Compound Number	: 159		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1638		
Retention Time (minutes)	: 11.552		
Quant Ion	: 252		
Area	: 2003122		
Concentration (ng/ul)	: 178.4948		
Integration start scan	: 1632	Integration stop scan:	1645
Y at integration start	: 4556	Y at integration end:	4992

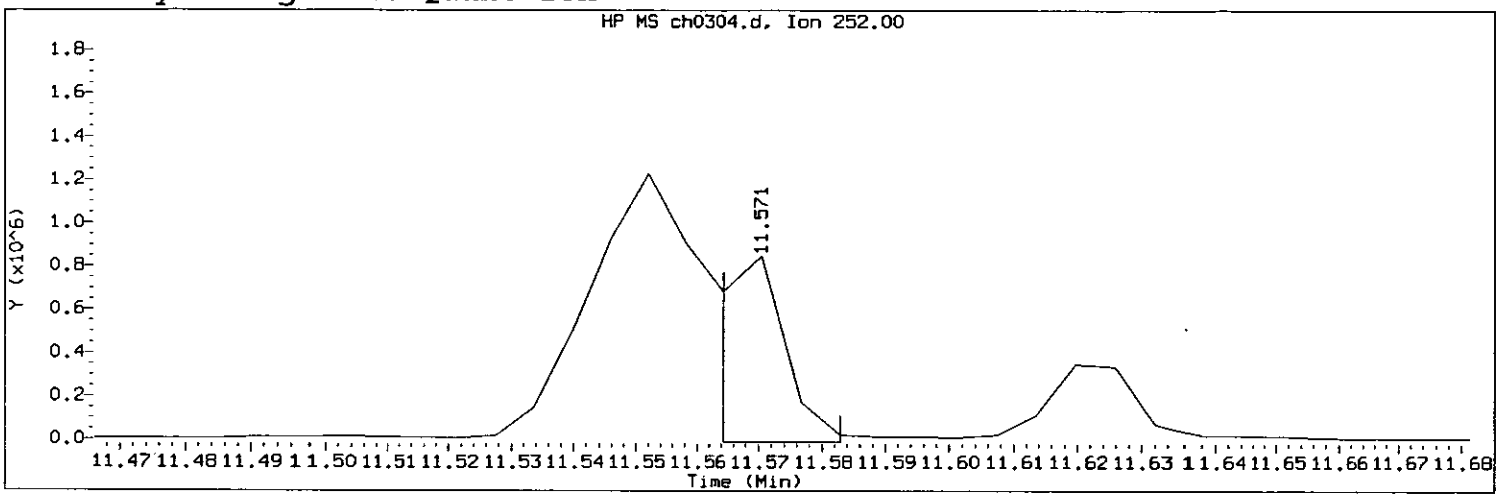
0129

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

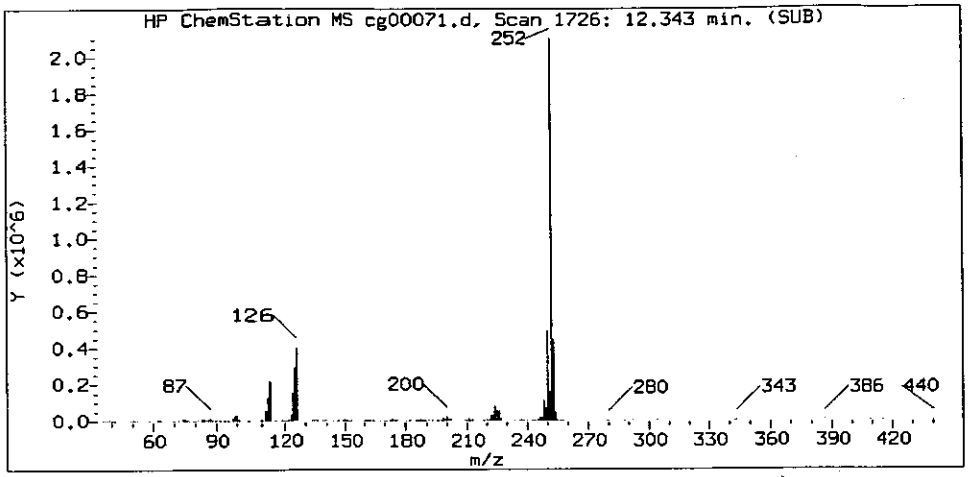
Compound Number : 159
Compound Name : Benzo(k)fluoranthene
Scan Number : 1641
Retention Time (minutes): 11.571
Quant Ion : 252
Area (flag) : 655473 M
Concentration (ng/ul) : 64.2347
Integration start scan : 1639 Integration stop scan: 1642
Y at integration start : -11978 Y at integration end: -11978

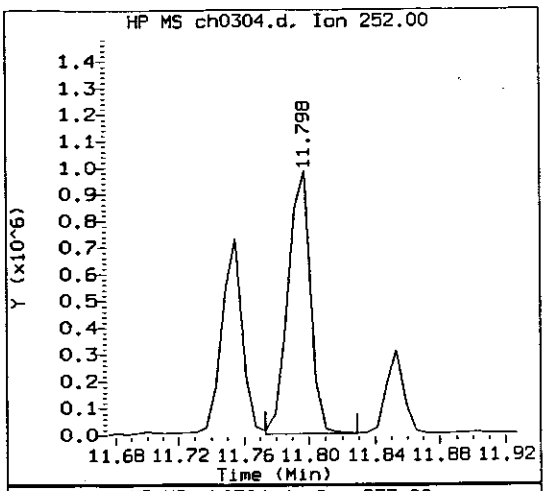
Reason for manual integration (circle one): missed peak improper integratic

Analyst responsible for change: [signature] 8/10/07

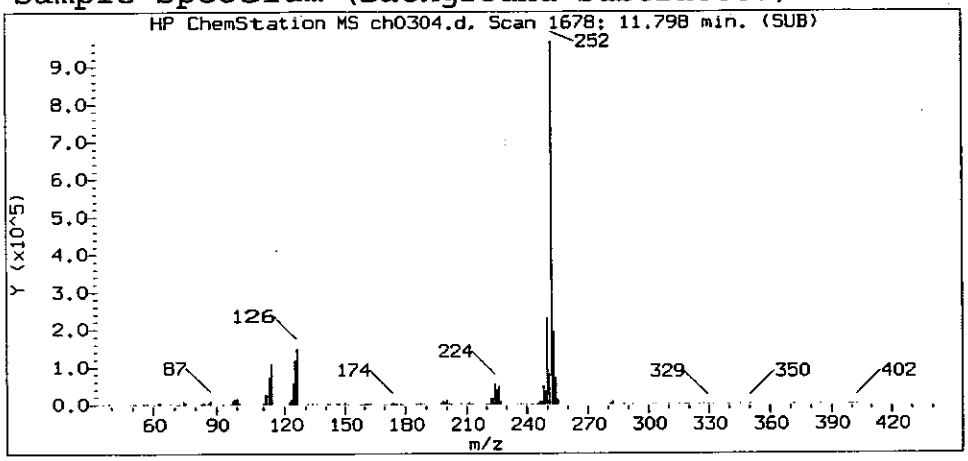
GC/MS audit/management approval: [signature] 8/13/07

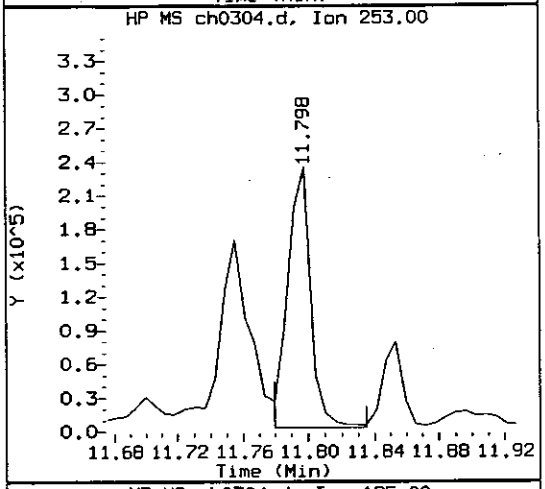
Reference Standard Spectrum for Benzo(a)pyrene



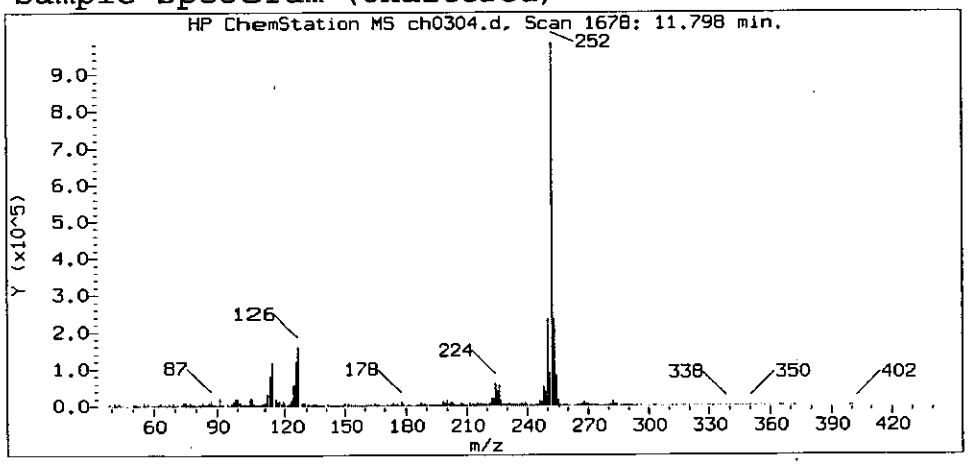


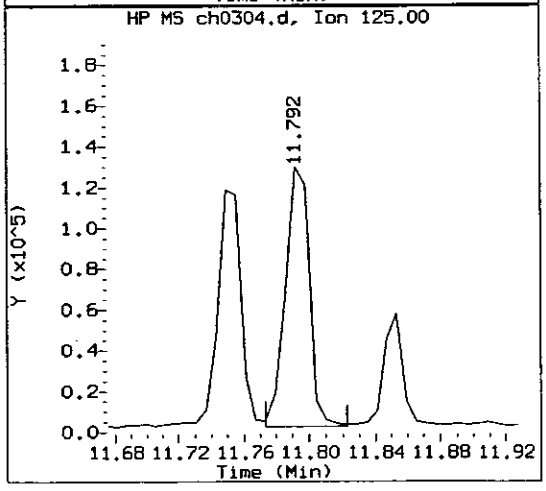
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

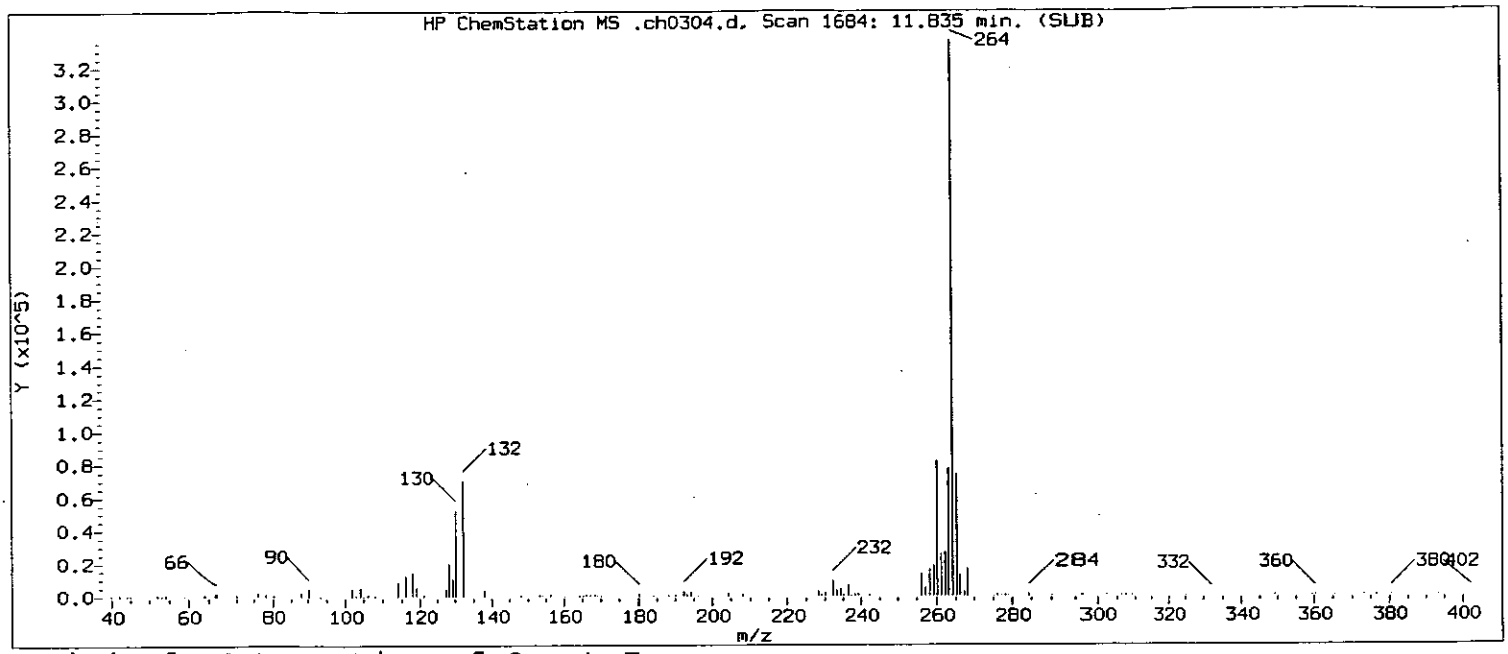
Sample Name: TP218

Lab Sample ID: 5118304

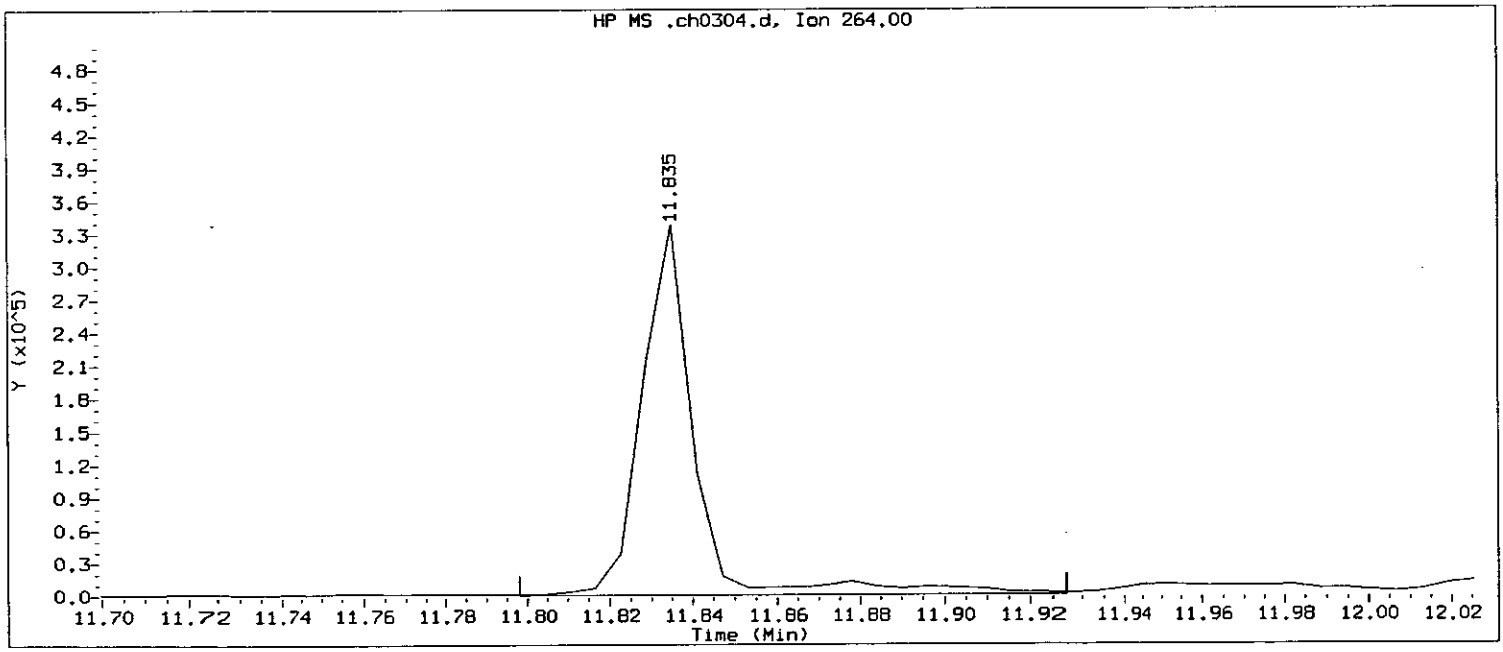
Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1678
Retention Time (minutes)	: 11.798
Quant Ion	: 252.0
Area (flag)	: 924183
Concentration (ng/ul)	: 103.5752

0131

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

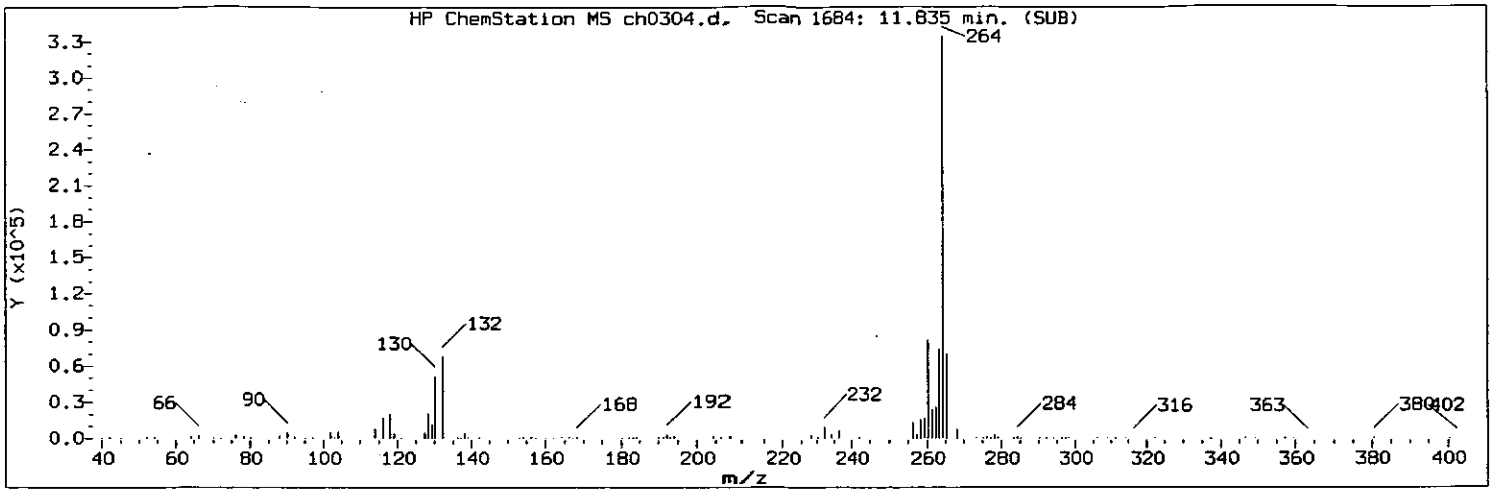
Sample Name: TP218 Lab Sample ID: 5118304

Compound Number	: 161
Compound Name	: Perylene-d12
Scan Number	: 1684
Retention Time (minutes)	: 11.835
Quant Ion	: 264
Area	: 297326
Concentration (ng/ul)	: 40.0000
Integration start scan	: 1677 Integration stop scan: 1698
Y at integration start	: 801 Y at integration end: 801

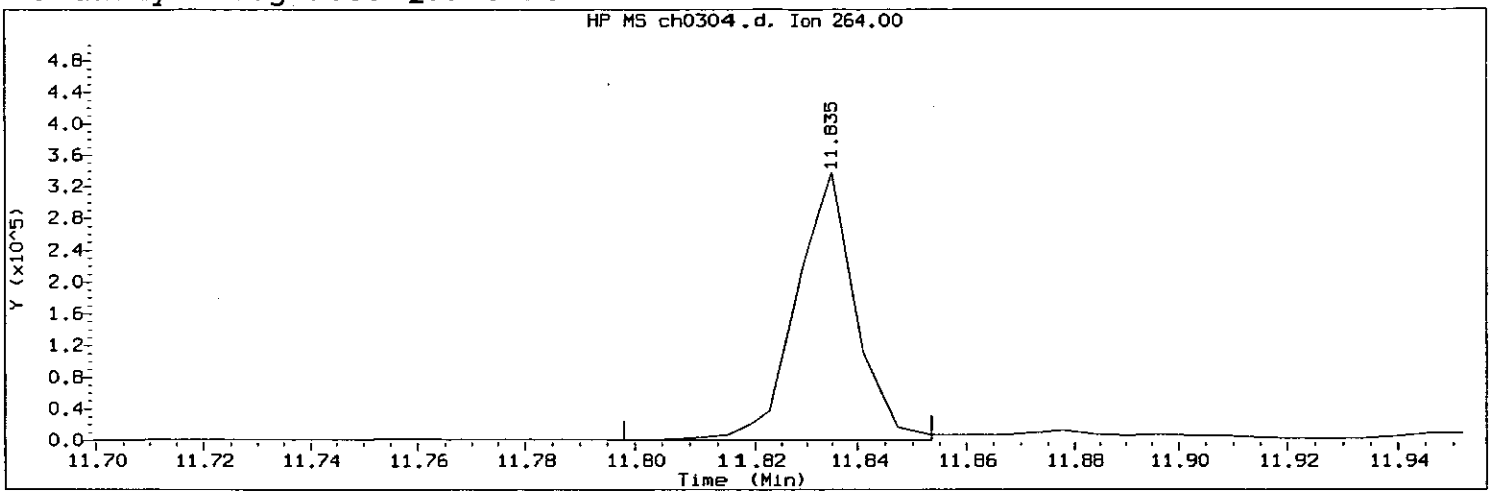
8132

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

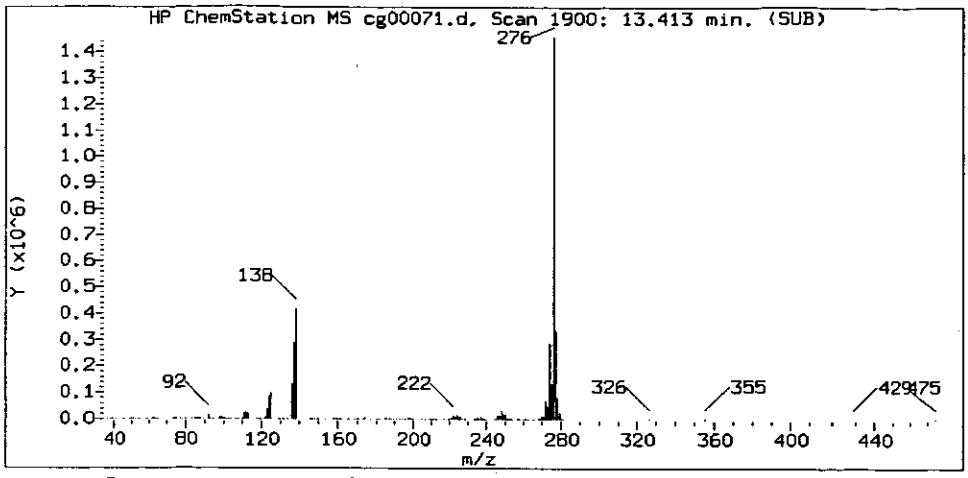
Compound Number	:	161
Compound Name	:	Perylene-d12
Scan Number	:	1684
Retention Time (minutes)	:	11.835
Quant Ion	:	264
Area (flag)	:	270356 M
Concentration (ng/ul)	:	40.0000
Integration start scan	:	1677 Integration stop scan: 1686
Y at integration start	:	801 Y at integration end: 801

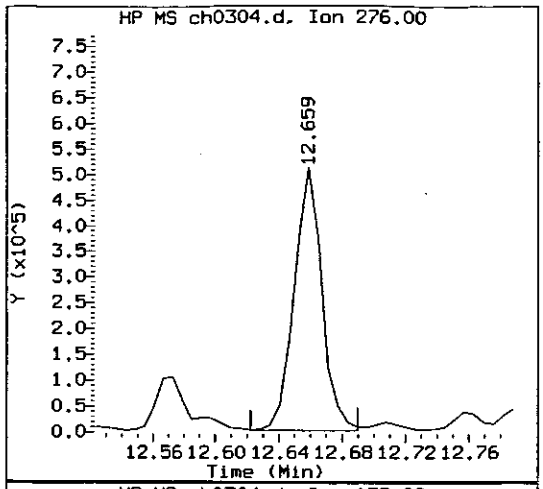
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: _____

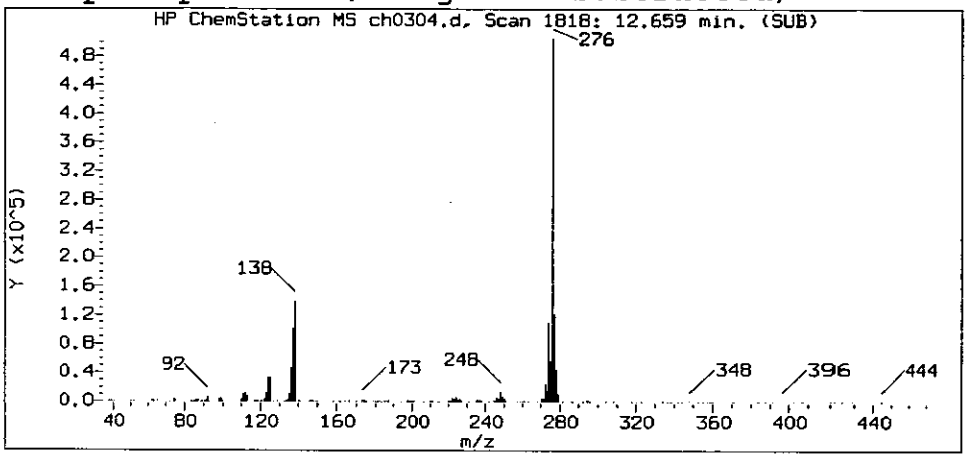
GC/MS audit/management approval: _____

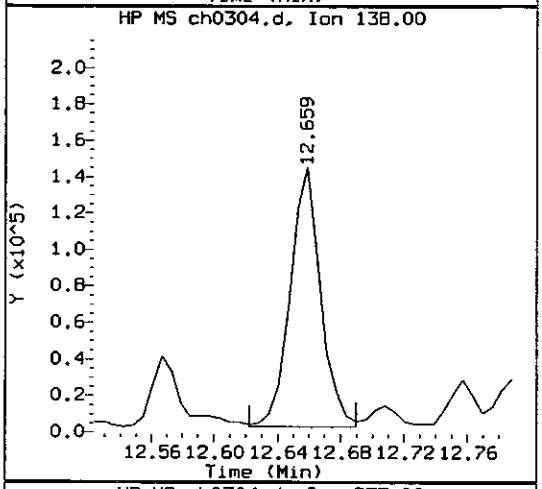
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



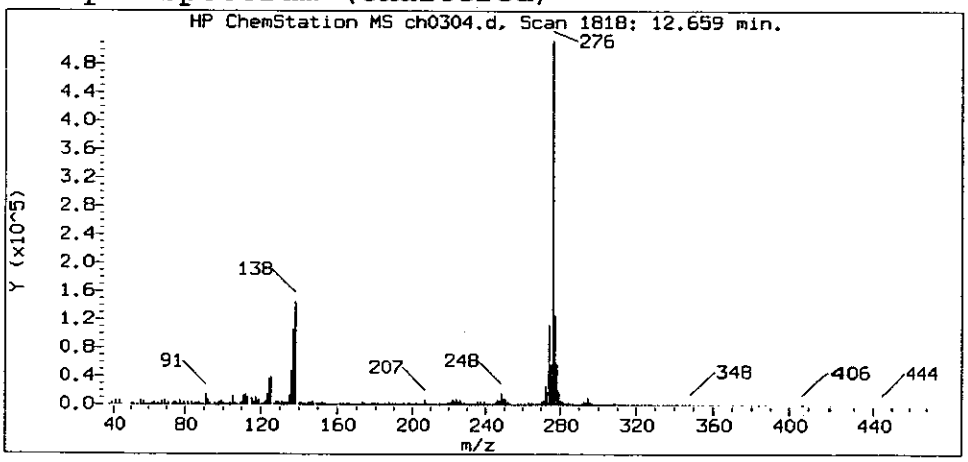


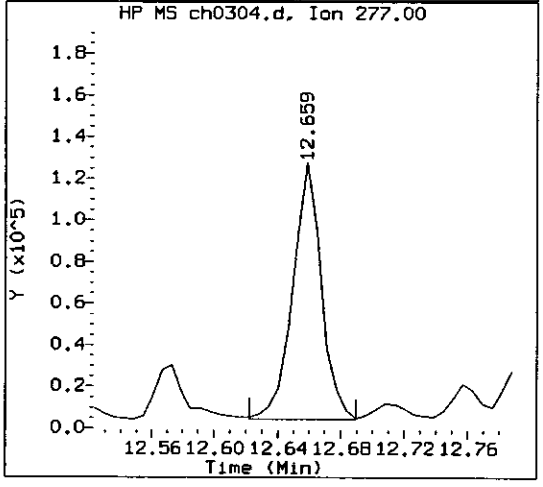
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

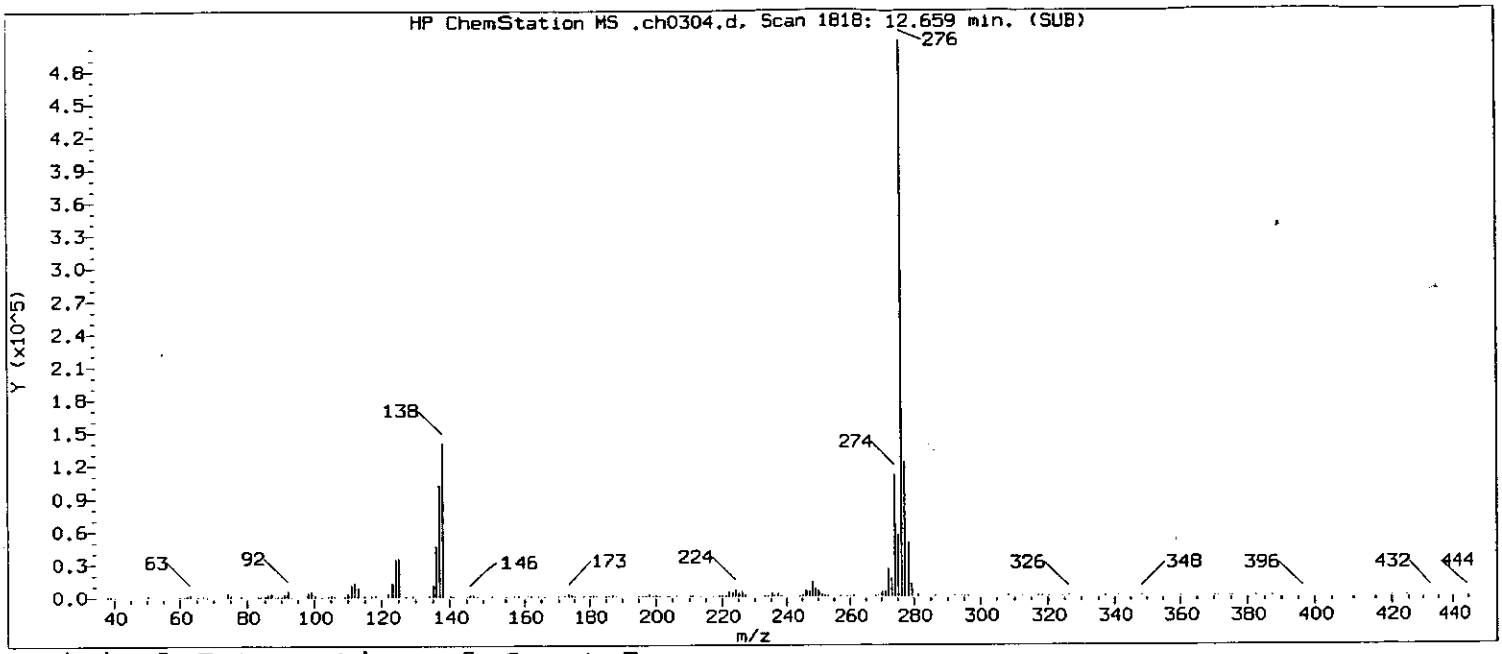
Sample Name: TP218

Lab Sample ID: 5118304

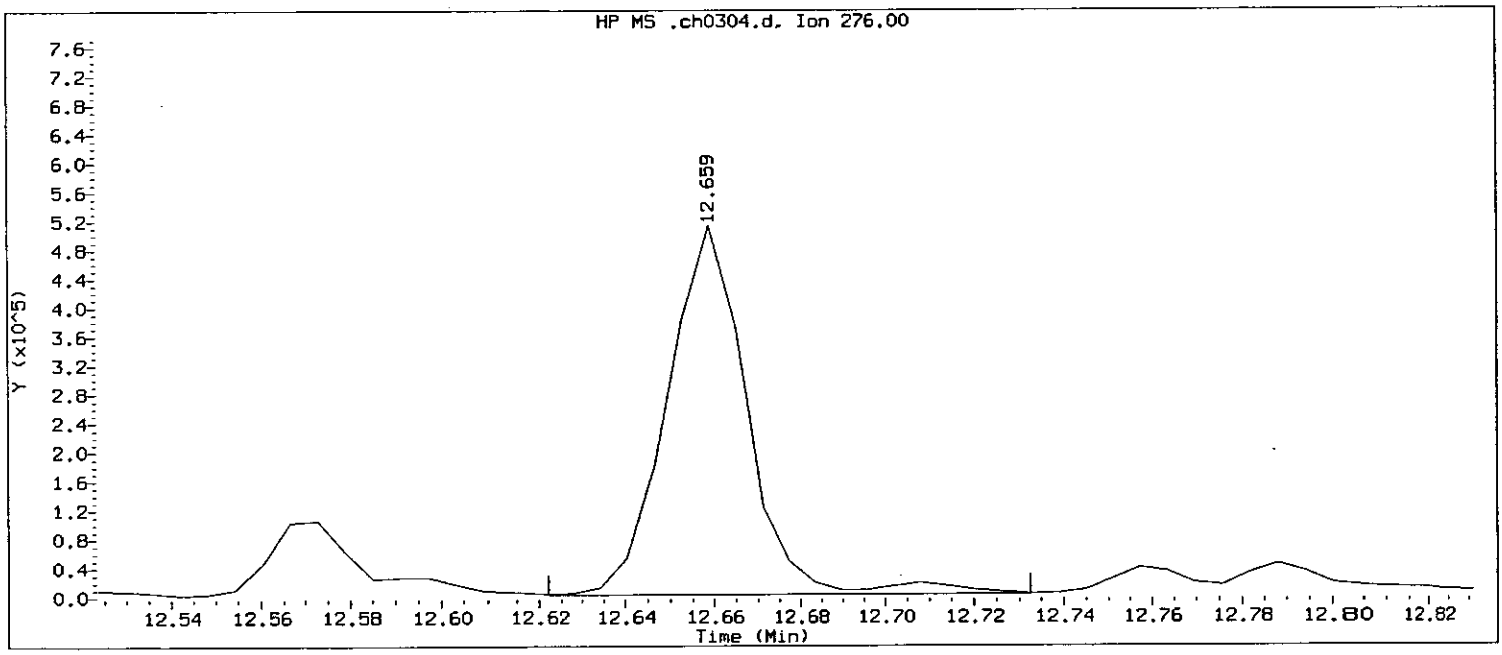
Compound Number	: 168
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1818
Retention Time (minutes)	: 12.659
Quant Ion	: 276.0
Area (flag)	: 625395 M
Concentration (ng/ul)	: 62.3317

8104

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

Sample Name: TP218 Lab Sample ID: 5118304

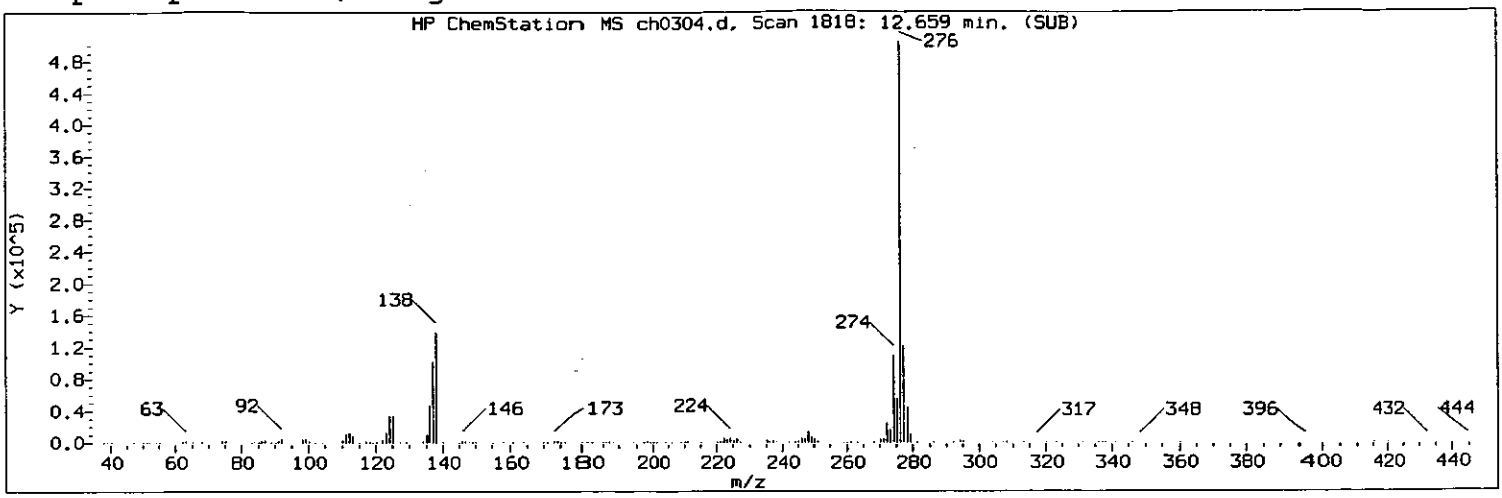
Compound Number	:	168	
Compound Name	:	Indeno(1,2,3-cd)pyrene	
Scan Number	:	1818	
Retention Time (minutes)	:	12.659	
Quant Ion	:	276	
Area	:	645967	
Concentration (ng/ul)	:	58.5420	
Integration start scan	:	1811	Integration stop scan: 1829
Y at integration start	:	3587	Y at integration end: 3587

BGm 8/10/07

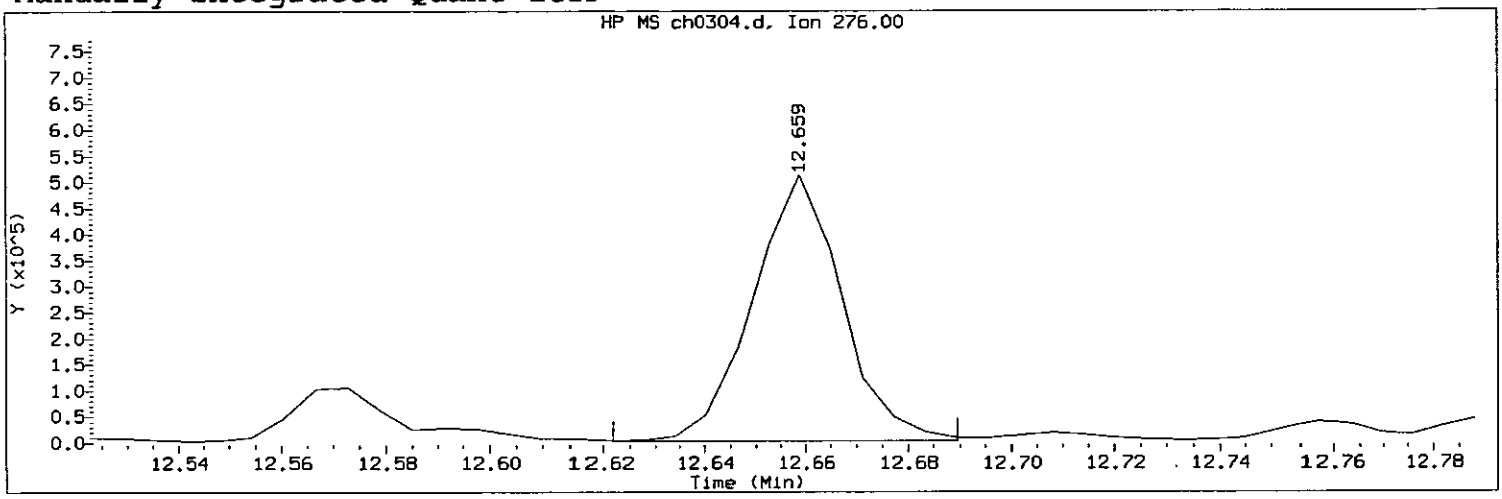
0135

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1818
Retention Time (minutes): 12.659
Quant Ion : 276
Area (flag) : 625395 M
Concentration (ng/ul) : 62.3317
Integration start scan : 1811 Integration stop scan: 1822
Y at integration start : 3587 Y at integration end: 3587

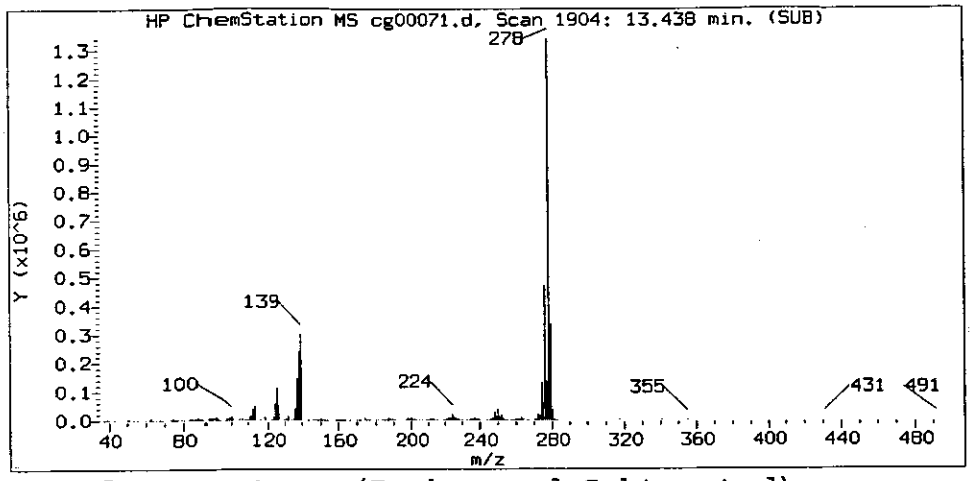
Reason for manual integration (circle one): missed peak improper integratic

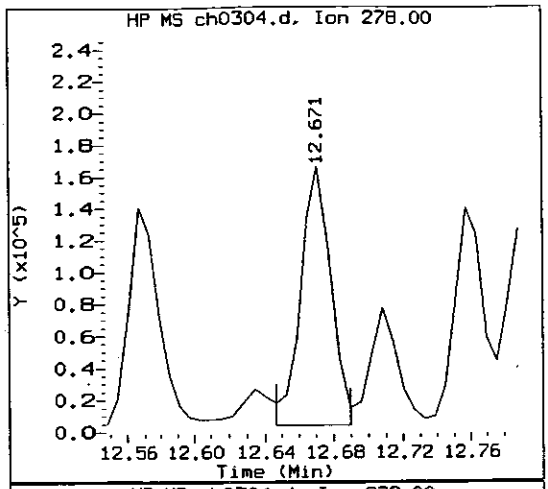
Analyst responsible for change: [signature] 8/10/07

8136 [signature] 8/13/07

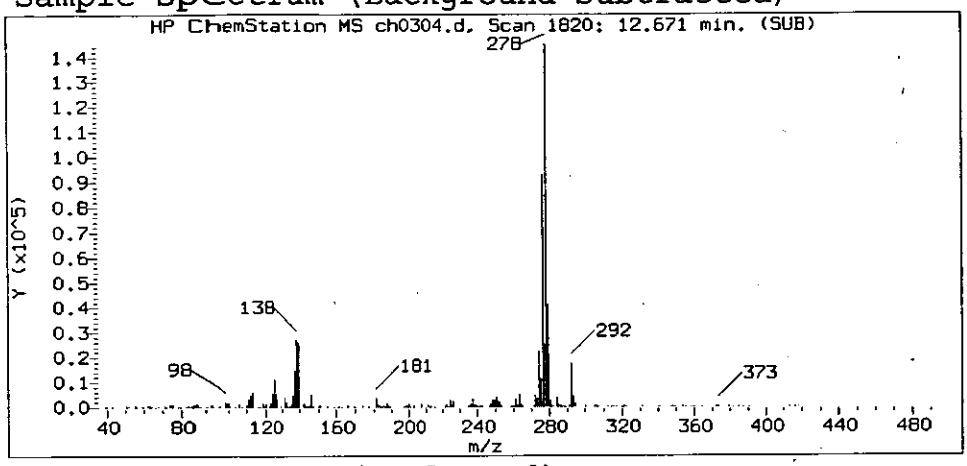
GC/MS audit/management approval: _____

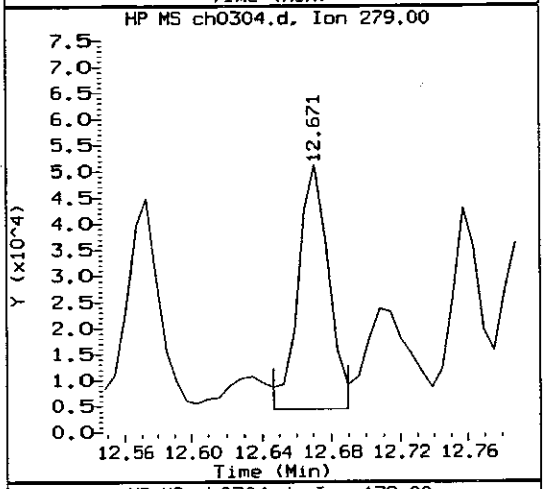
Reference Standard Spectrum for Dibenz(a,h)anthracene



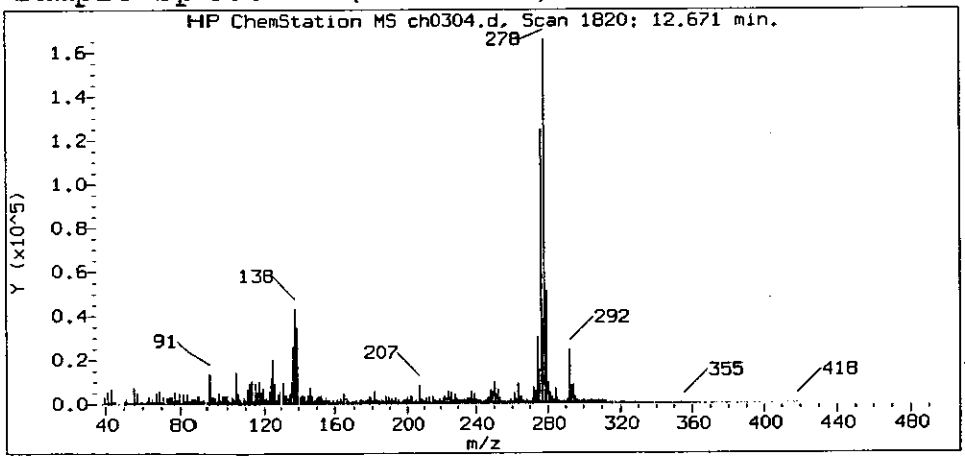


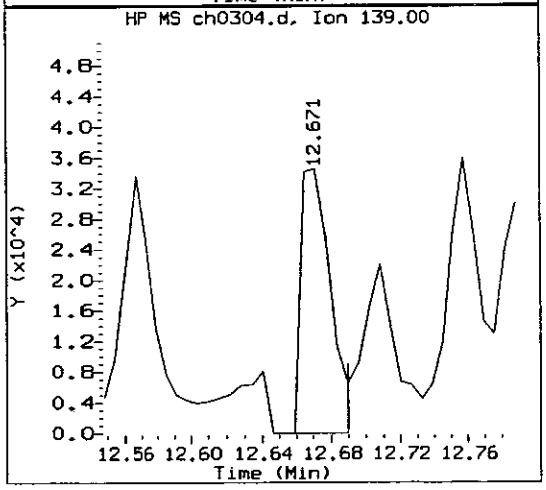
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d
Injection date and time: 09-AUG-2007 22:07

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

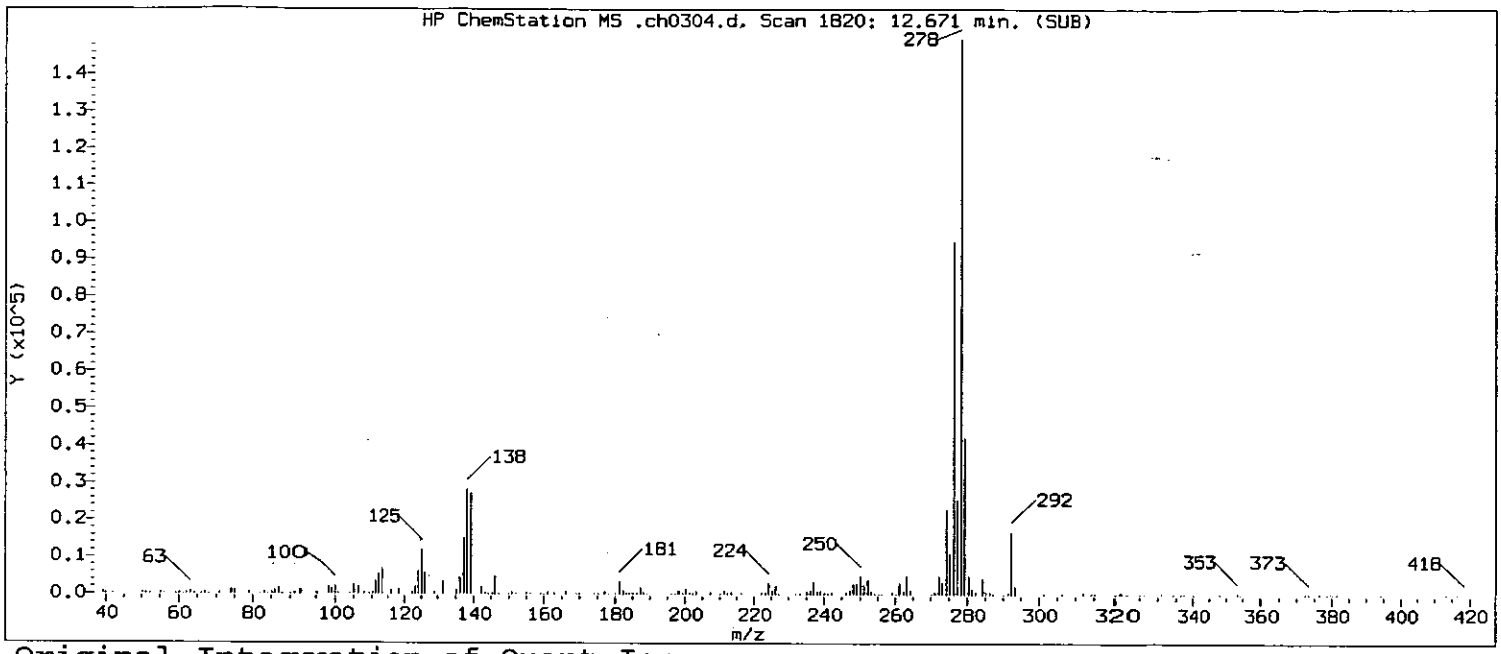
Sample Name: TP218

Lab Sample ID: 5118304

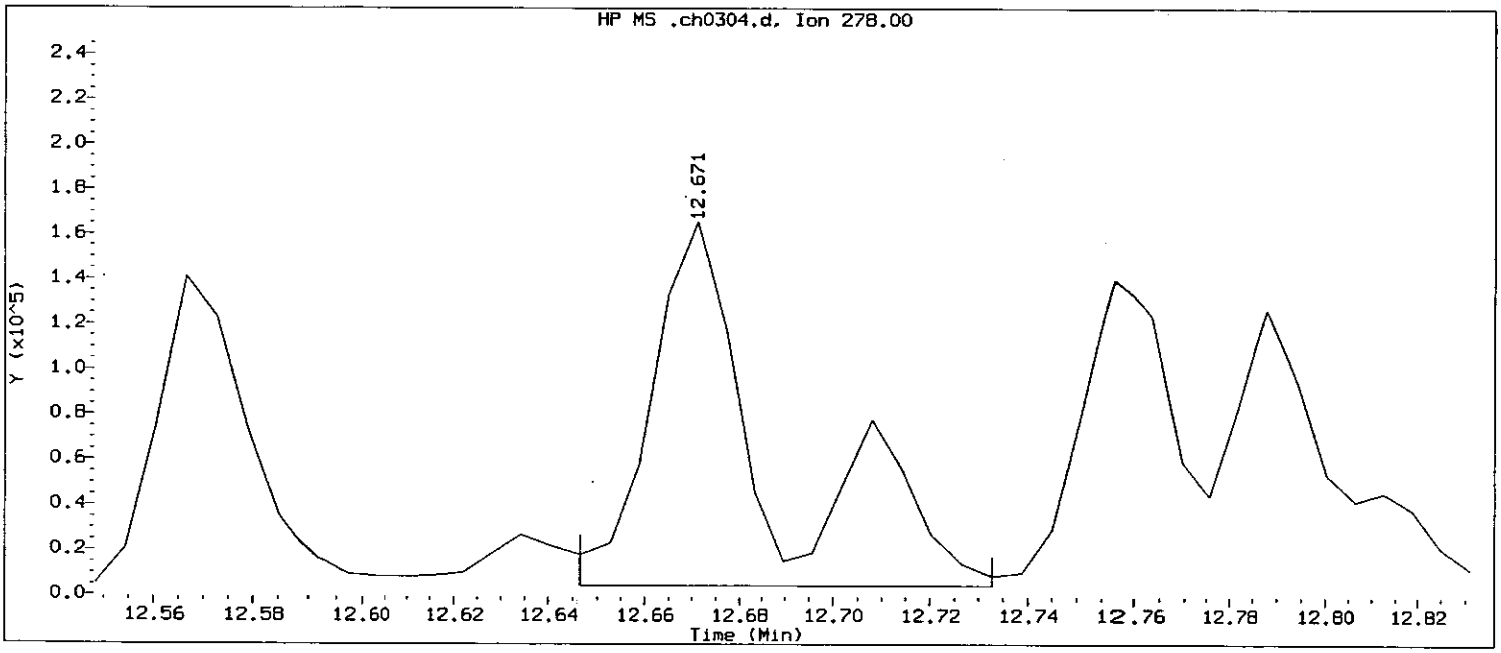
Compound Number	: 169
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1820
Retention Time (minutes)	: 12.671
Quant Ion	: 278.0
Area (flag)	: 200048 M
Concentration (ng/ul)	: 24.8978

0137

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:21 Automation

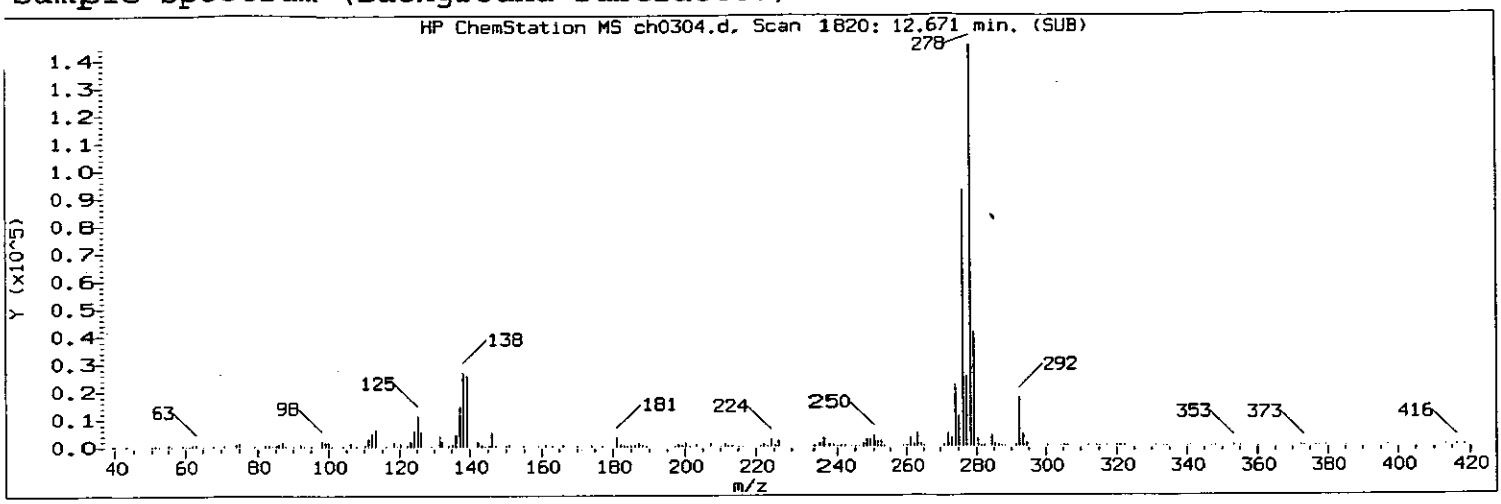
Sample Name: TP218 Lab Sample ID: 5118304

Compound Number	: 169		
Compound Name	: Dibenz(a,h)anthracene		
Scan Number	: 1820		
Retention Time (minutes)	: 12.671		
Quant Ion	: 278		
Area	: 278365		
Concentration (ng/ul)	: 31.5024		
Integration start scan	: 1815	Integration stop scan:	1829
Y at integration start	: 4369	Y at integration end:	4369

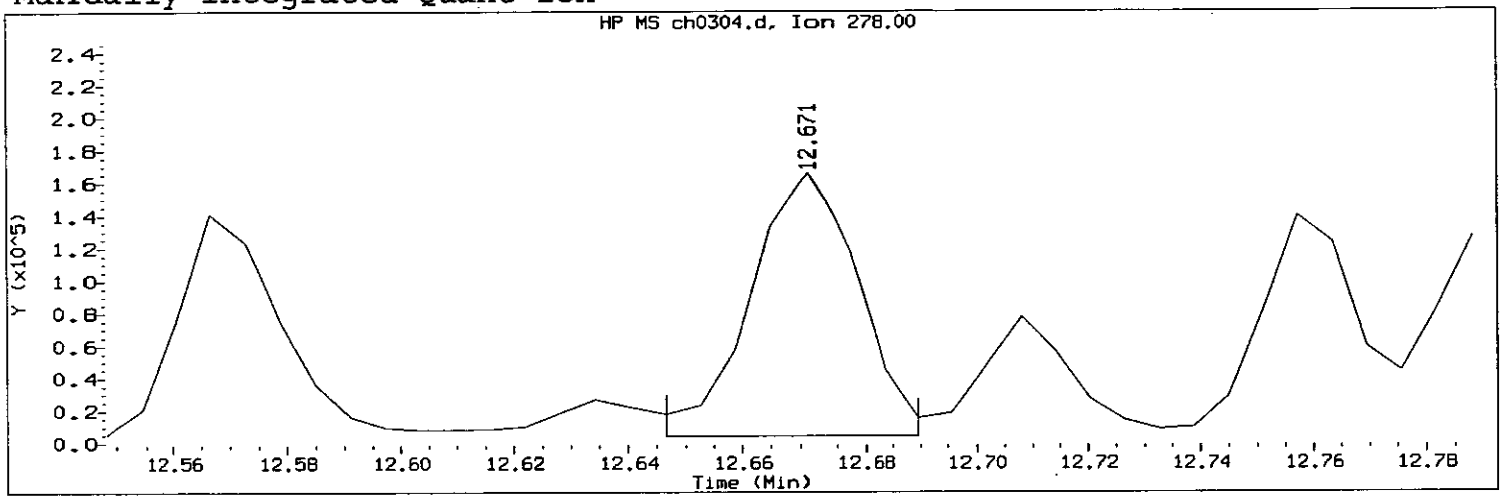
8138

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0304.d, generated on 08/10/2007 at 04:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1820
Retention Time (minutes): 12.671
Quant Ion : 278
Area (flag) : 200048 M
Concentration (ng/ul) : 24.8978
Integration start scan : 1815 Integration stop scan: 1822
Y at integration start : 4369 Y at integration end: 4369

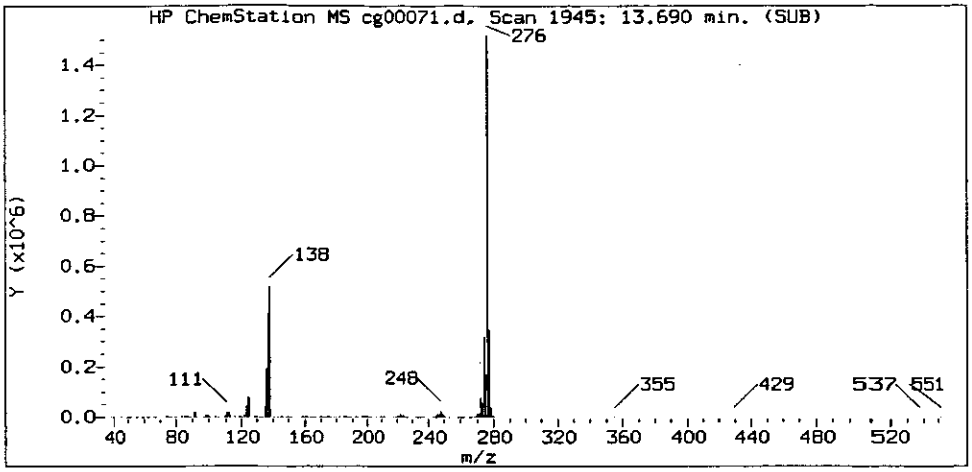
Reason for manual integration (circle one): missed peak improper integratio

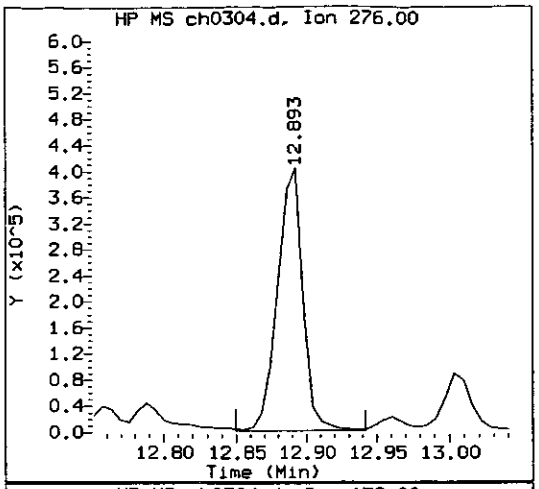
Analyst responsible for change: _____

8139

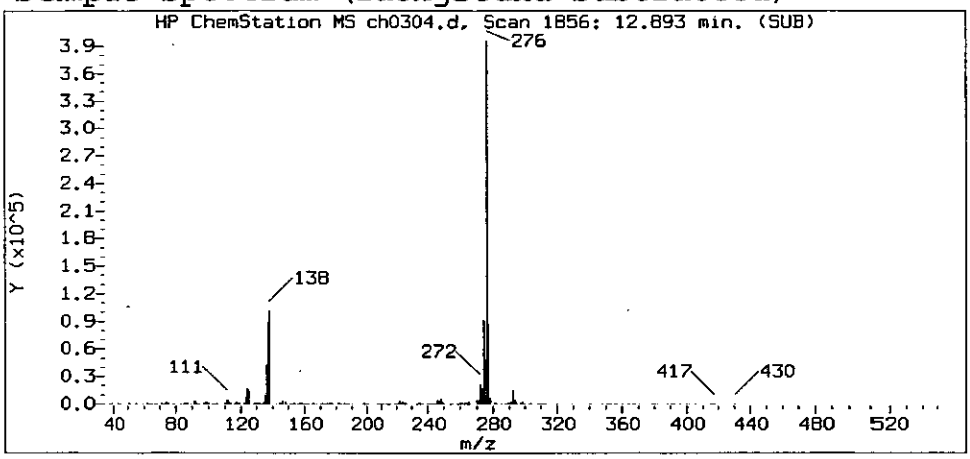
GC/MS audit/management approval: _____

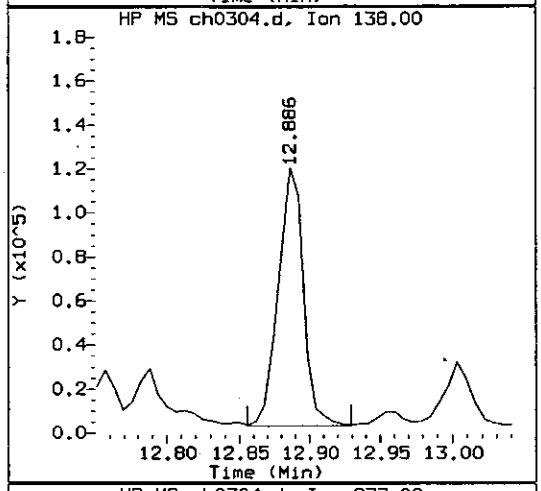
Reference Standard Spectrum for Benzo(g,h,i)perylene



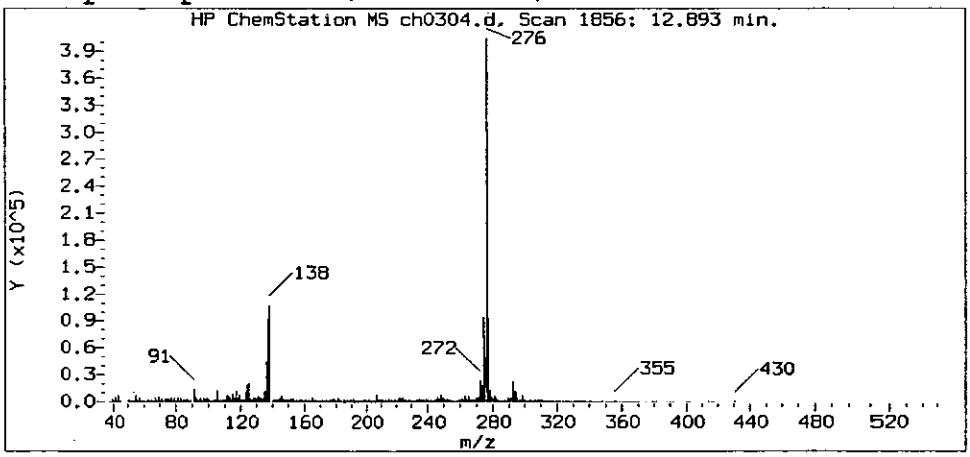


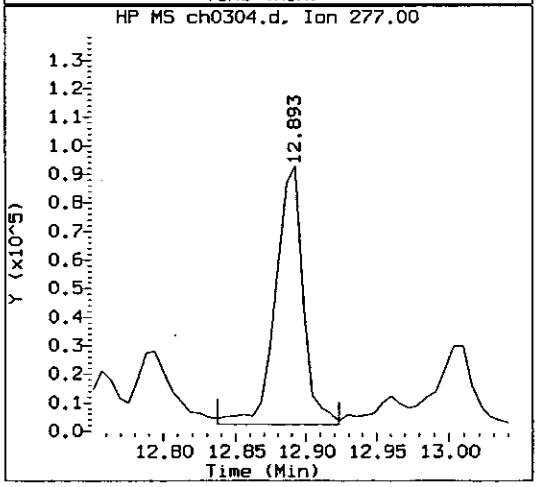
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0304.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:07 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:45 bkg00522

Sample Name: TP218 Lab Sample ID: 5118304

Compound Number	: 170
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 1856
Retention Time (minutes)	: 12.893
Quant Ion	: 276.0
Area (flag)	: 506490
Concentration (ng/ul)	: 60.2032

6148

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP218DL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118304DL

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0348.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 14 dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/12/07

Injection Volume: 1 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/KG	Q
91-20-3	Naphthalene			260	J D
208-96-8	Acenaphthylene			1700	D
83-32-9	Acenaphthene			970	U
86-73-7	Fluorene			2600	D
85-01-8	Phenanthrene			3300	D
120-12-7	Anthracene			1400	D
206-44-0	Fluoranthene			7700	D
129-00-0	Pyrene			7800	D
56-55-3	Benzo(a)anthracene			5700	D
218-01-9	Chrysene			4900	D
205-99-2	Benzo(b)fluoranthene			6700	D
207-08-9	Benzo(k)fluoranthene			2600	D
50-32-8	Benzo(a)pyrene			4100	D
193-39-5	Indeno(1,2,3-cd)pyrene			2300	D
53-70-3	Dibenz(a,h)anthracene			880	J D
191-24-2	Benzo(g,h,i)perylene			2200	D

0141

TP218DL

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118304DL

Data file: /chem/HP10623.i/07aug12.b/ch0348.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 12-AUG-2007 22:55 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 12-AUG-2007 17:17
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug12.b/ch0331.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 5 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.690	(0.000)	522	152.0	69600	(-14)	40.00	
46) Naphthalene-d8	5.821	(0.000)	706	136.0	302328	(-16)	40.00	
82) Acenaphthene-d10	7.291	(0.006)	945	164.0	178665	(-19)	40.00	
120) Phenanthrene-d10	8.502	(0.006)	1142	188.0	316519	(-20)	40.00	
149) Chrysene-d12	10.654	(0.012)	1492	240.0	247516	(-23)	40.00	
161) Perylene-d12	11.786	(0.012)	1676	264.0	214123	(-21)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.194	(0.001)	82	58663	19.905	100%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.750	(0.000)	172	91851	16.335	82%		55 - 123
138) Terphenyl-d14	(5)	9.818	(0.000)	244	79577	15.619	78%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/u
47) Naphthalene	(2)	5.840	(0.000)	128	11037	1.337	222.86			1.00
80) Acenaphthylene	(3)	7.174	(0.000)	152	68891	8.582	1430.34			1.00
83) Acenaphthene	(3)				Below MDL, Do not report					1.00
94) Fluorene	(3)	7.740	(0.000)	166	81262	13.514	2252.25			1.00
121) Phenanthrene	(4)	8.521	(0.000)	178	148617	17.231	2871.76			1.00
124) Anthracene	(4)	8.564	(0.000)	178	63848	7.176	1196.00			1.00
134) Fluoranthene	(4)	9.486	(0.000)	202	383501	39.685	6614.22			1.00
136) Pyrene	(5)	9.671	(0.000)	202	311570	40.277	6712.89			1.00
146) Benzo(a)anthracene	(5)	10.648	(-0.001)	228	205543	29.408	4901.26			1.00
150) Chrysene	(5)	10.673	(0.000)	228	172709	25.039	4173.17			1.00
158) Benzo(b)fluoranthene	(6)	11.503	(0.000)	252	247983	34.483	5747.22			1.00
159) Benzo(k)fluoranthene	(6)	11.521	(0.000)	252	106419	13.168	2194.61			1.00
160) Benzo(a)pyrene	(6)	11.743	(0.000)	252	149965	21.221	3536.80			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.597	(0.000)	276	93560	11.774	1962.31			1.00
169) Dibenz(a,h)anthracene	(6)	12.610	(0.000)	278	28977	4.554	758.93			1.00
170) Benzo(g,h,i)perylene	(6)	12.819	(0.000)	276	77004	11.557	1926.12			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

TP218DL

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118304DL

Data file: /chem/HP10623.i/07aug12.b/ch0348.d Blank Data file reference:**/chem/HP10623.i/07augO9a.b/ch0292.d**
Injection date and time: 12-AUG-2007 22:55 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Method used: /chem/HP10623.i/O7aug12.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 12-AUG-2007 17:17
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug12.b/ch0331.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 5 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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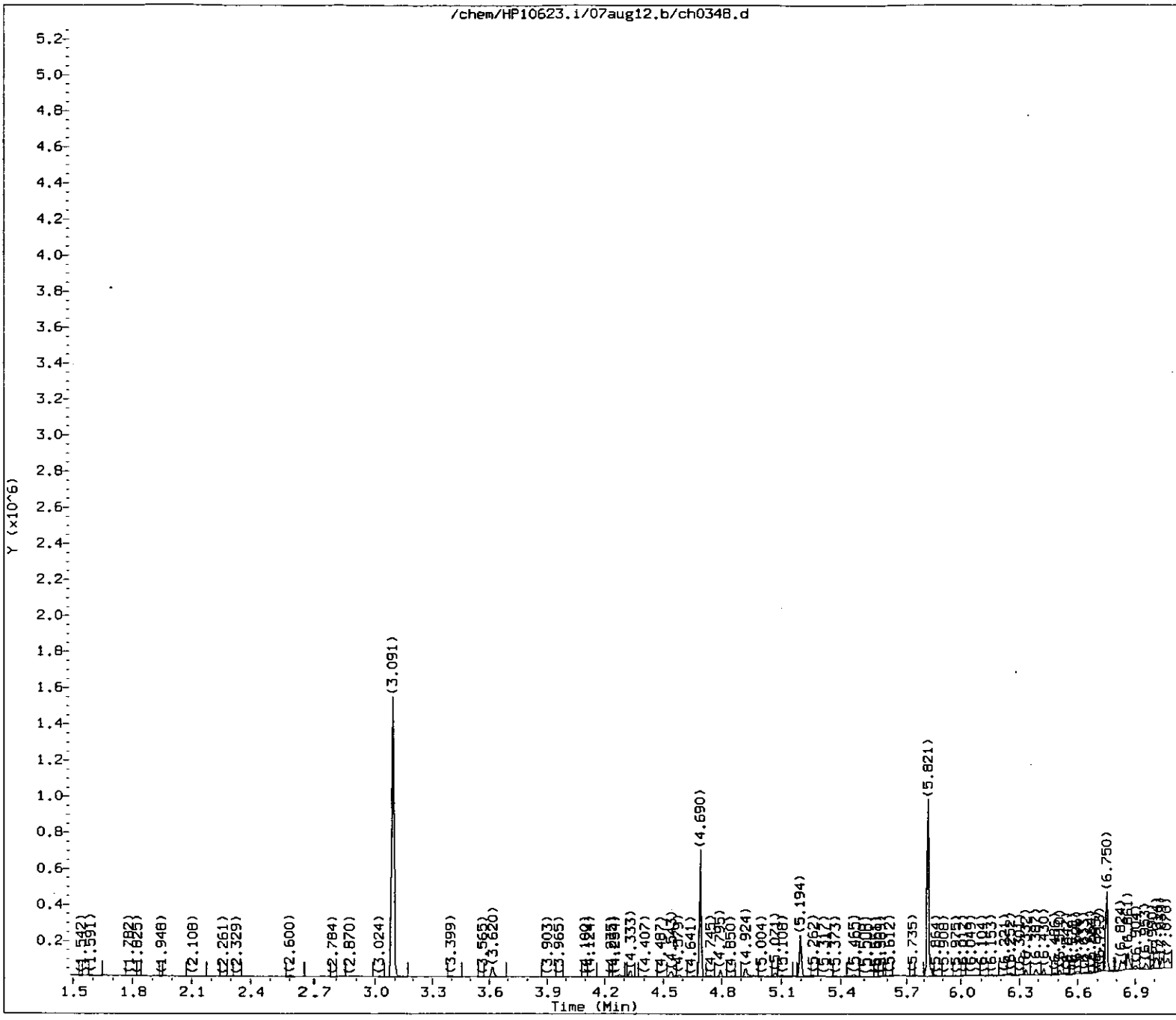
Total number of targets = 16

Comments:

Analyst: (SW) Date: 8-13-07
Auditor: Date: 8/13/07



Quant Report

Target Revision 3.5

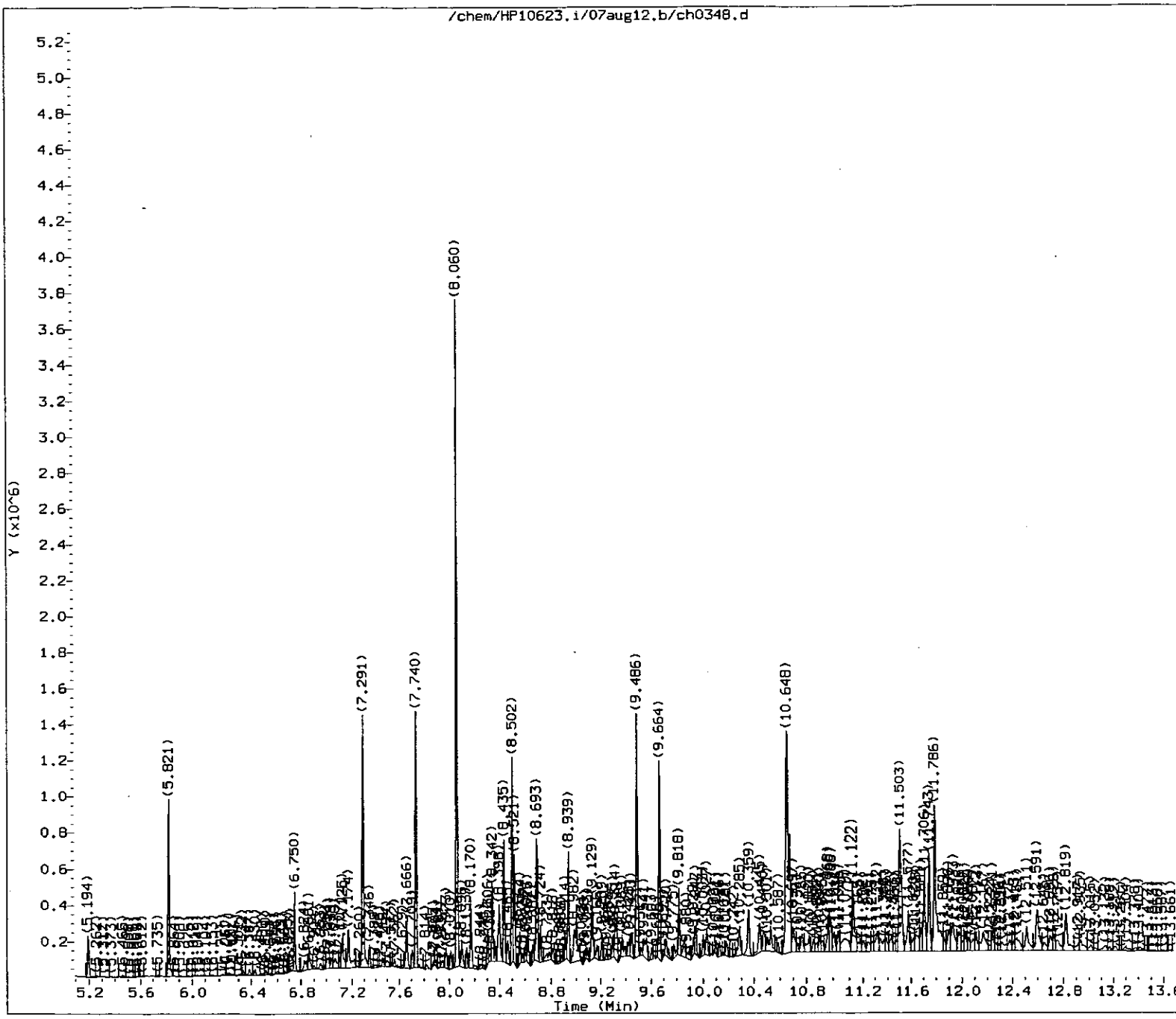
Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

8144

BG-SV
8-13-07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

8145

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

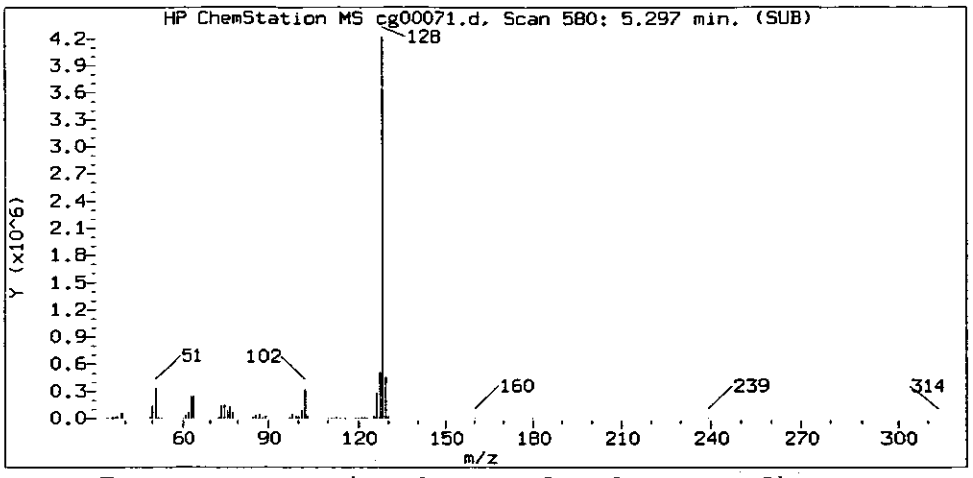
Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

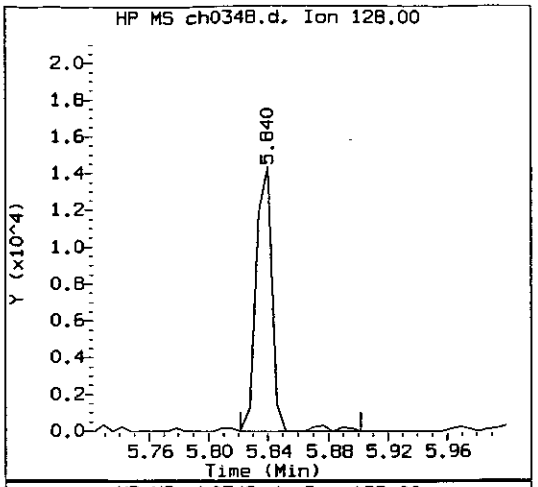
Sample Name: TP218DL Lab Sample ID: 5118304DL

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.690	152	69600	40.0000
46)	Naphthalene-d8	(2)	5.821	136	302328	40.0000
47)	Naphthalene	(2)	5.840	128	11037	1.3372
80)	Acenaphthylene	(3)	7.174	152	68891	8.5820
82)	Acenaphthene-d10	(3)	7.291	164	178665	40.0000
94)	Fluorene	(3)	7.740	166	81262	13.5135
120)	Phenanthrene-d10	(4)	8.502	188	316519	40.0000
121)	Phenanthrene	(4)	8.521	178	148617	17.2306
124)	Anthracene	(4)	8.564	178	63848	7.1760
134)	Fluoranthene	(4)	9.486	202	383501	39.6853
136)	Pyrene	(5)	9.671	202	311570	40.2773
146)	Benzo(a)anthracene	(5)	10.648	228	205543	29.4076
149)	Chrysene-d12	(5)	10.654	240	247516	40.0000
150)	Chrysene	(5)	10.673	228	172709	25.0390
158)	Benzo(b)fluoranthene	(6)	11.503	252	247983M	34.4833
159)	Benzo(k)fluoranthene	(6)	11.521	252	106419M	13.1676
160)	Benzo(a)pyrene	(6)	11.743	252	149965M	21.2208
161)	Perylene-d12	(6)	11.786	264	214123	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.597	276	93560M	11.7738
169)	Dibenz(a,h)anthracene	(6)	12.610	278	28977M	4.5536
170)	Benzo(g,h,i)perylene	(6)	12.819	276	77004	11.5567
35)	Nitrobenzene-d5	(2)	5.194	82	58663	19.9050
66)	2-Fluorobiphenyl	(3)	6.750	172	91851	16.3351
138)	Terphenyl-d14	(5)	9.818	244	79577	15.6193

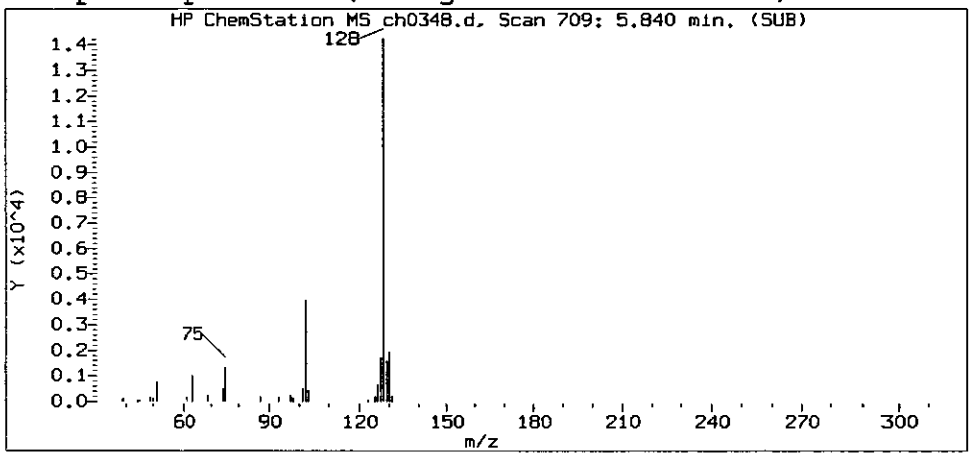
M = Compound was manually integrated. A = User selected an alternate hi

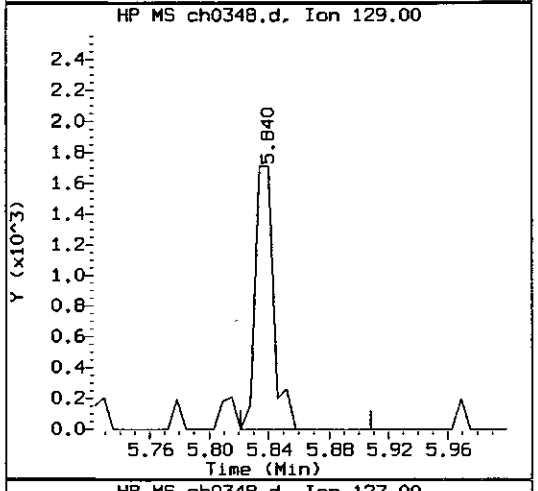
Reference Standard Spectrum for Naphthalene



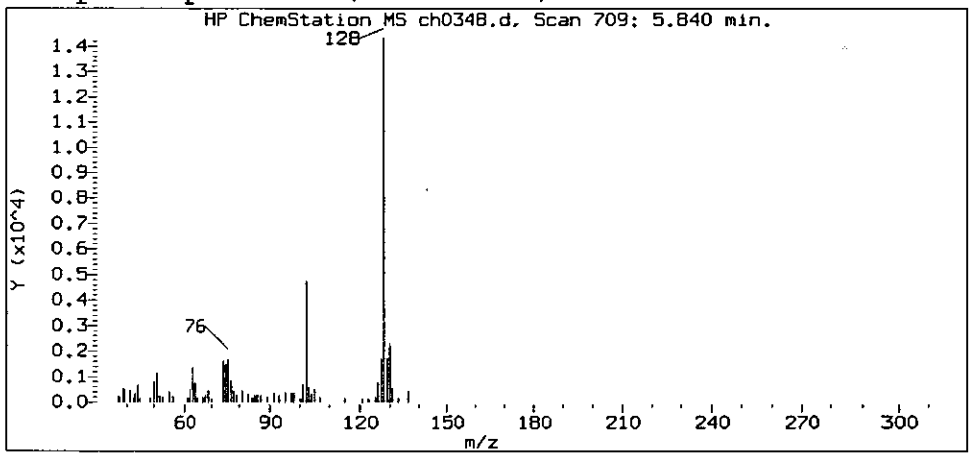


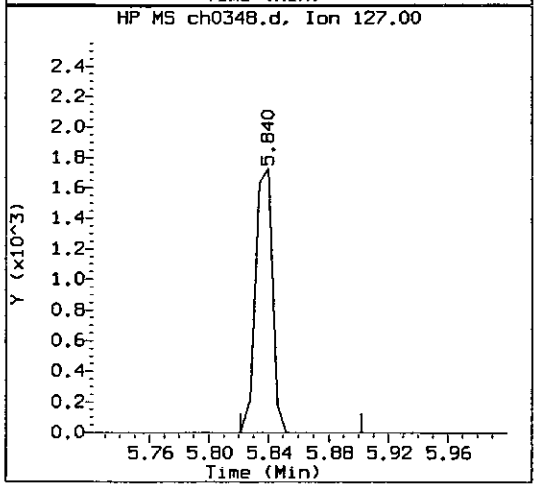
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

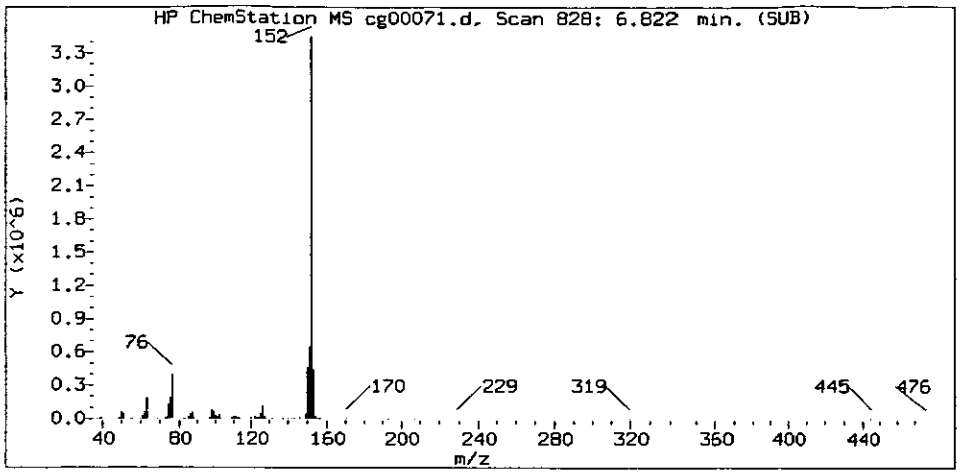
Sample Name: TP218DL

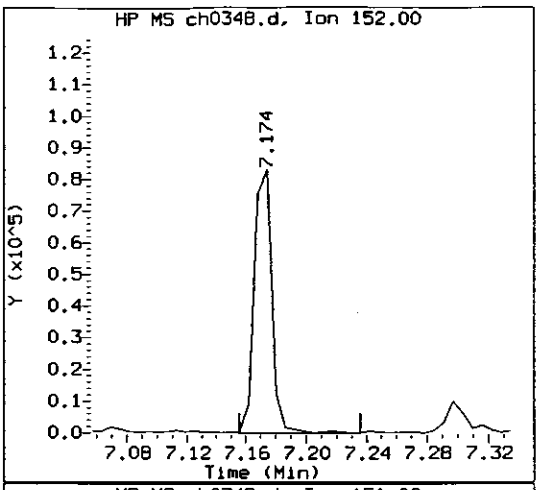
Lab Sample ID: 5118304DL

Compound Number	: 47
Compound Name	: Naphthalene
Scan Number	: 709
Retention Time (minutes)	: 5.840
Quant Ion	: 128.0
Area (flag)	: 11037
Concentration (ng/ul)	: 1.3372

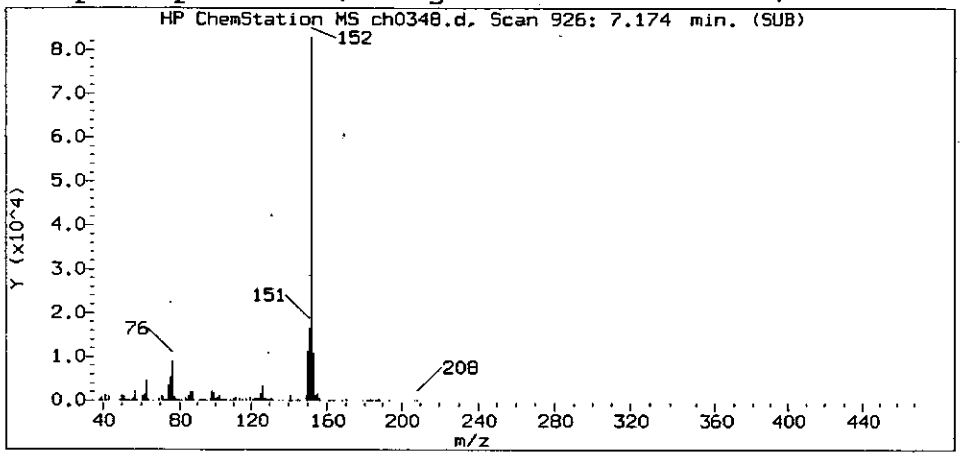
0147

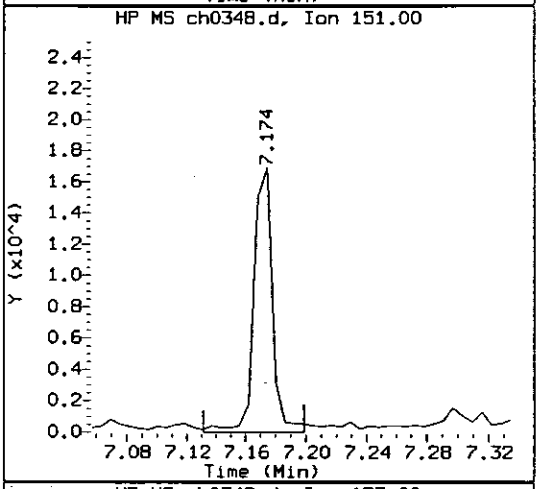
Reference Standard Spectrum for Acenaphthylene



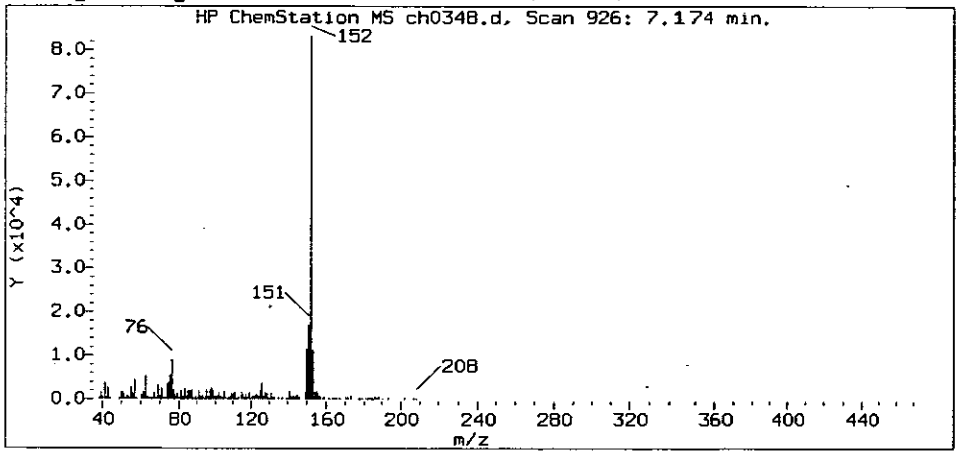


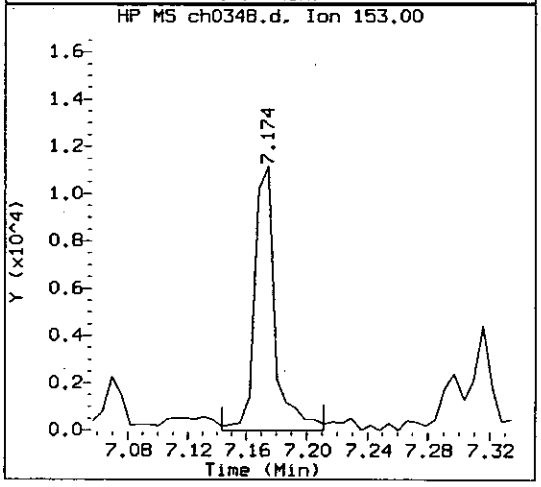
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

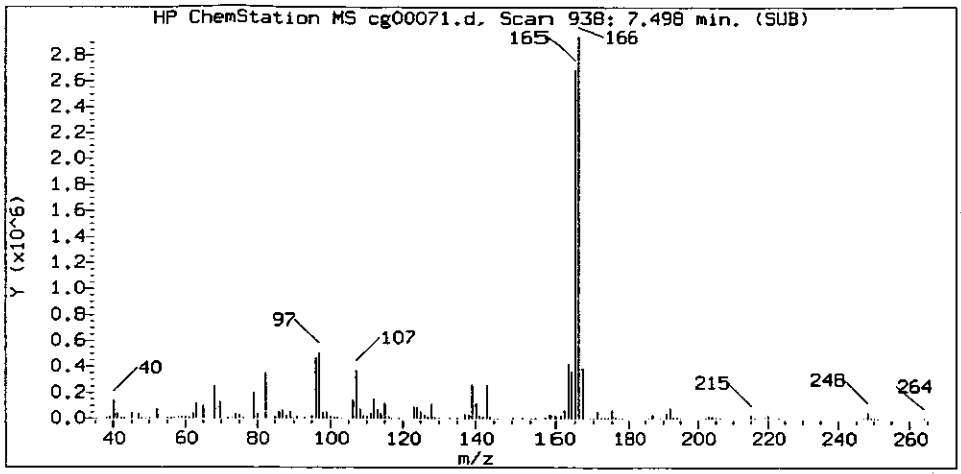
Sample Name: TP218DL

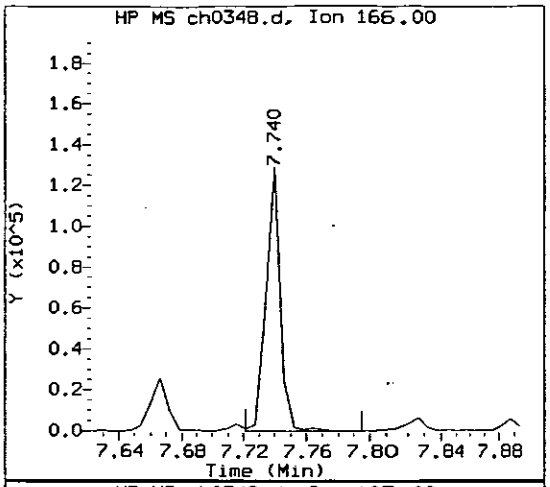
Lab Sample ID: 5118304DL

Compound Number	: 80
Compound Name	: Acenaphthylene
Scan Number	: 926
Retention Time (minutes)	: 7.174
Quant Ion	: 152.0
Area (flag)	: 68891
Concentration (ng/ul)	: 8.5820

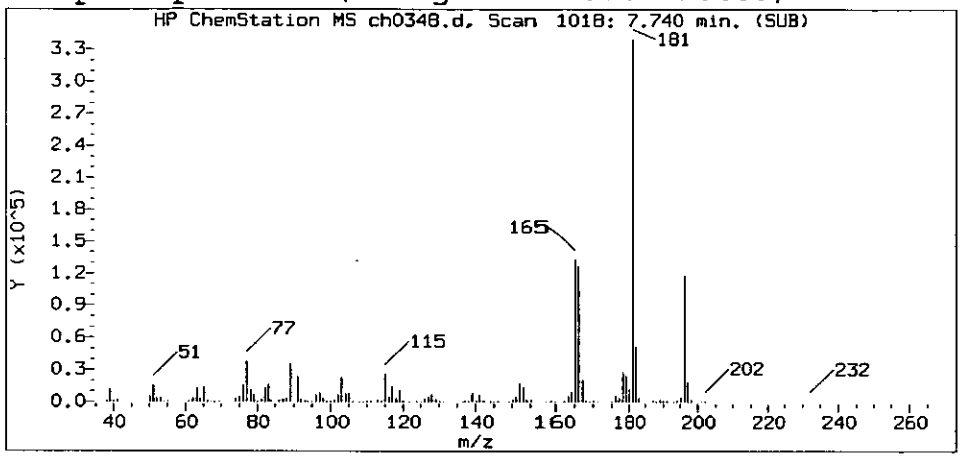
8148

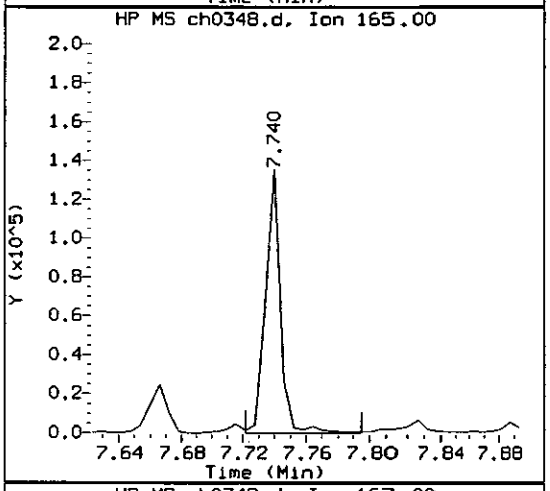
Reference Standard Spectrum for Fluorene



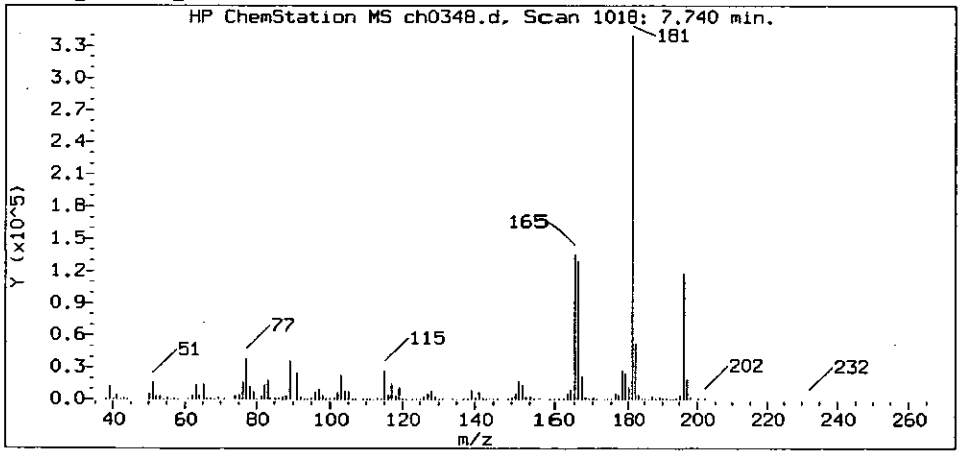


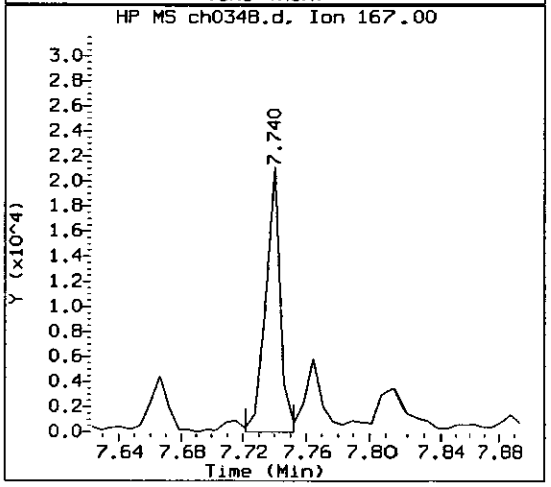
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

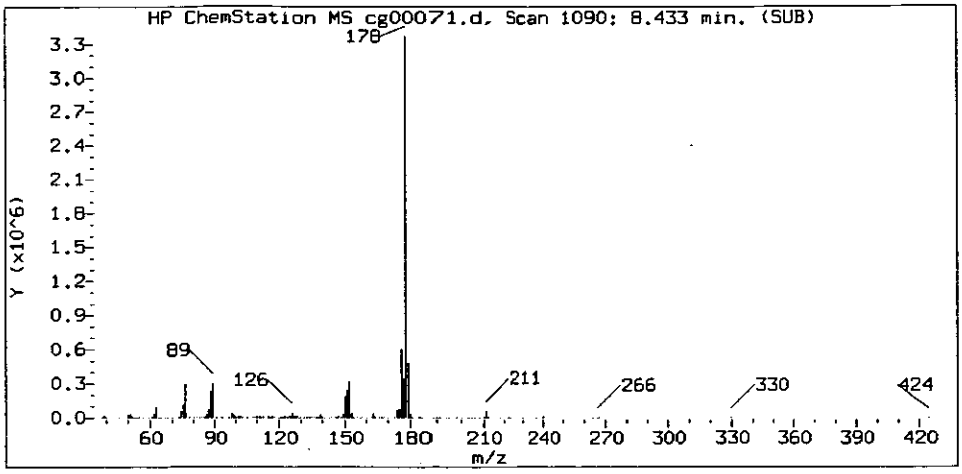
Sample Name: TP218DL

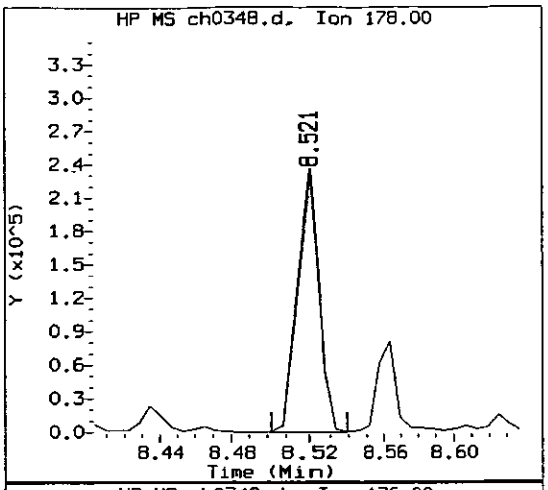
Lab Sample ID: 5118304DL

Compound Number	:	94
Compound Name	:	Fluorene
Scan Number	:	1018
Retention Time (minutes)	:	7.740
Quant Ion	:	166.0
Area (flag)	:	81262
Concentration (ng/ul)	:	13.5135

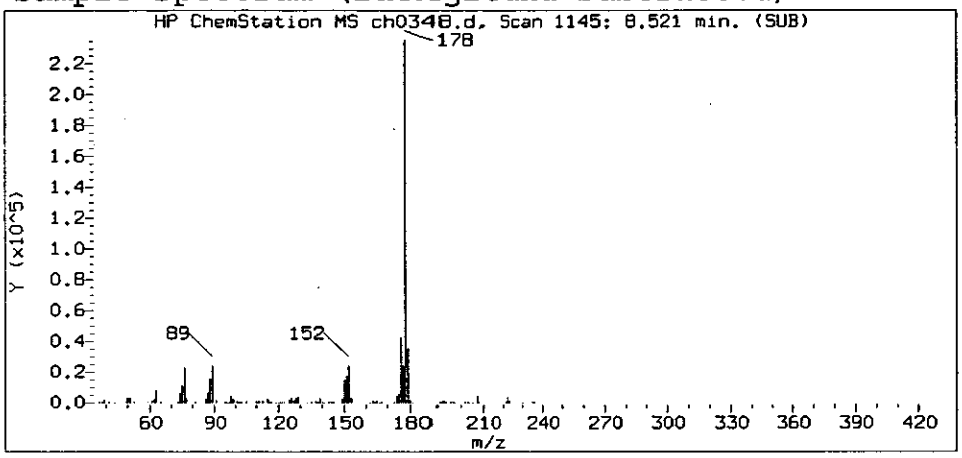
8149

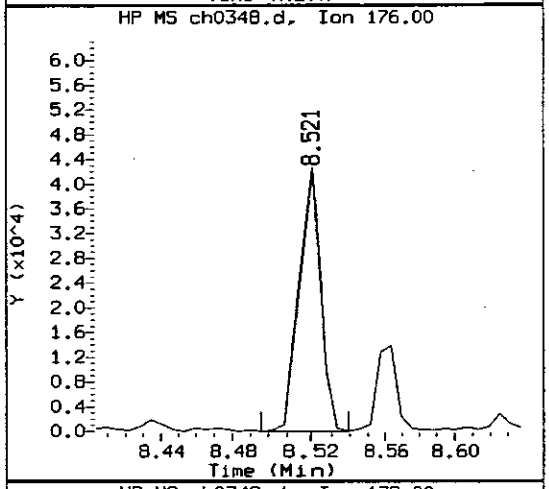
Reference Standard Spectrum for Phenanthrene



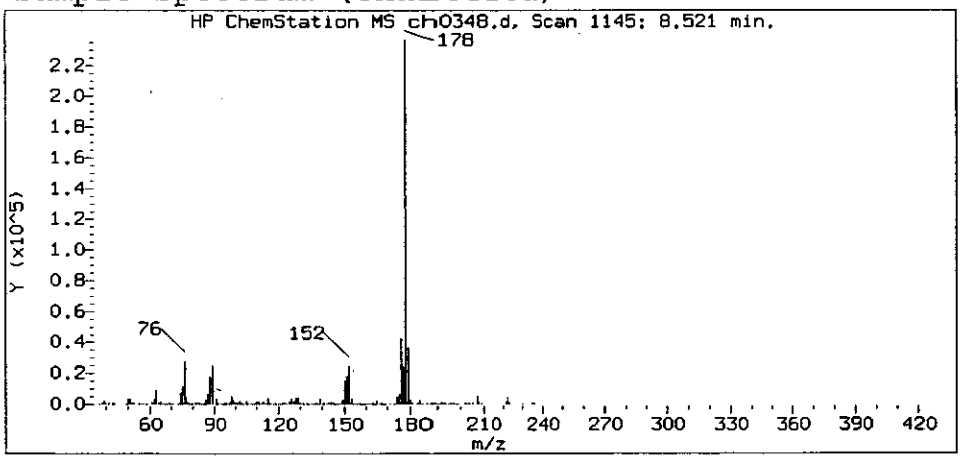


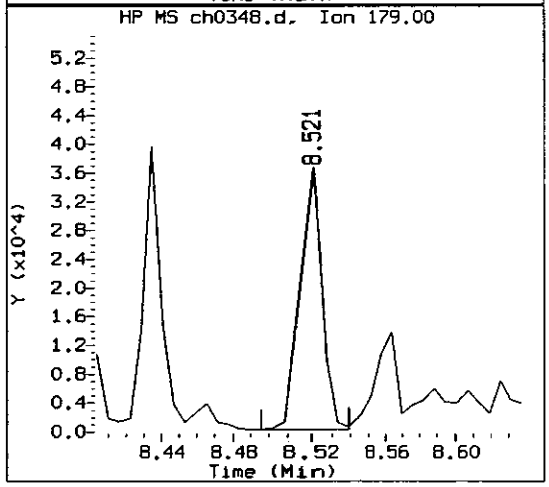
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

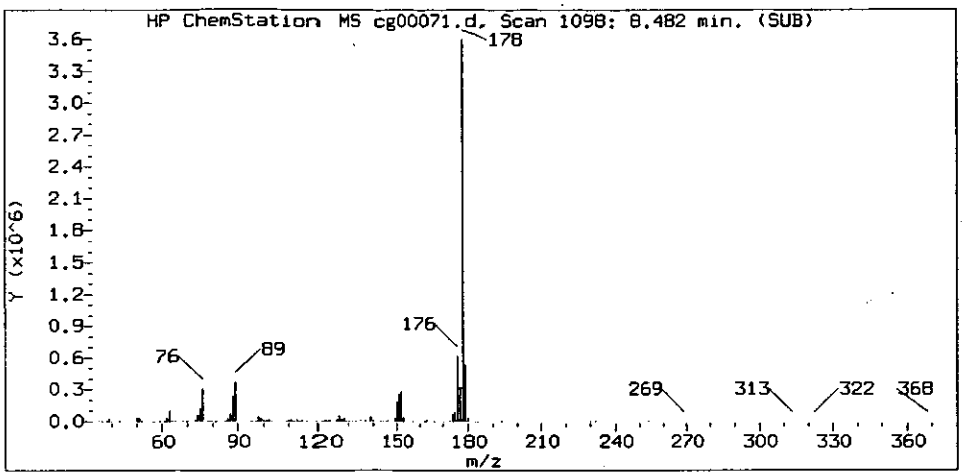
Sample Name: TP218DL

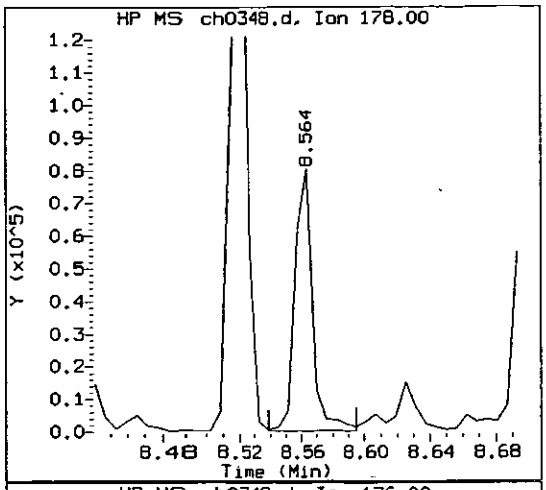
Lab Sample ID: 5118304DL

Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1145
Retention Time (minutes)	: 8.521
Quant Ion	: 178.0
Area (flag)	: 148617
Concentration (ng/ul)	: 17.2306

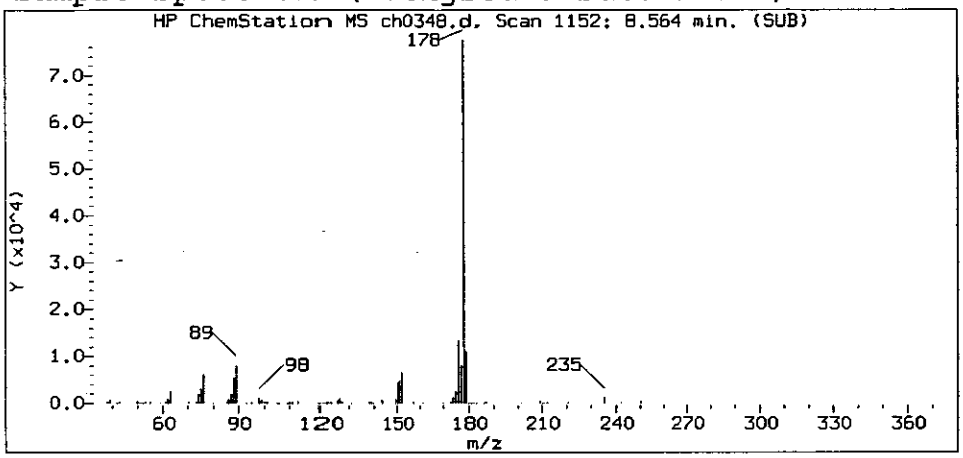
8150

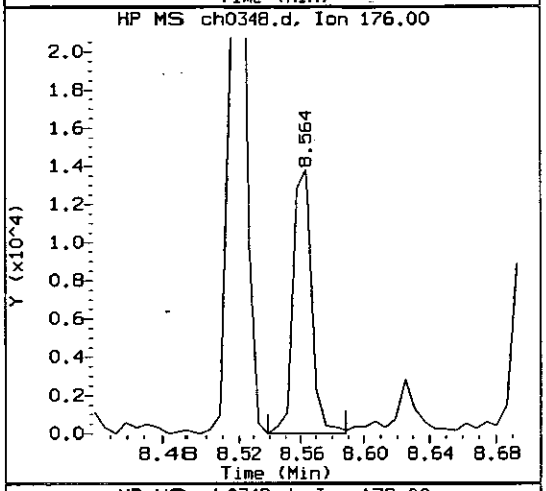
Reference Standard Spectrum for Anthracene



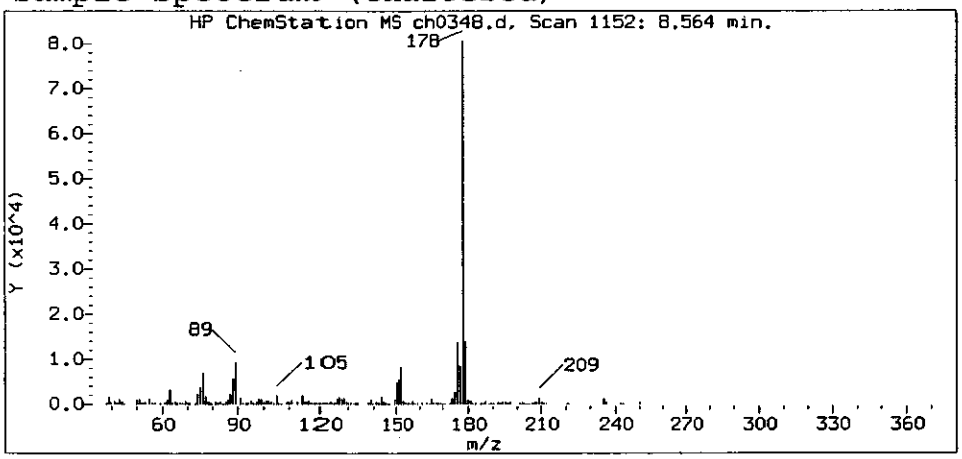


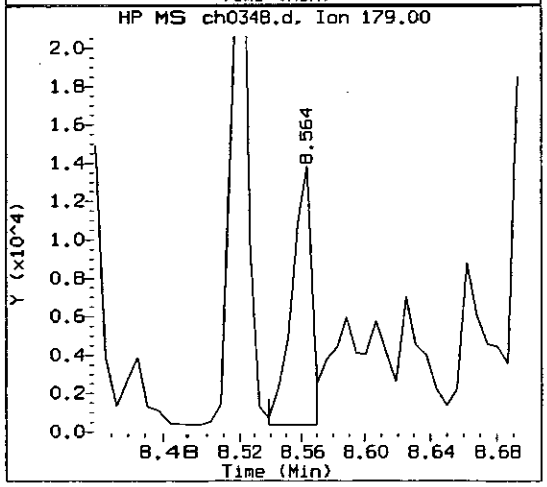
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

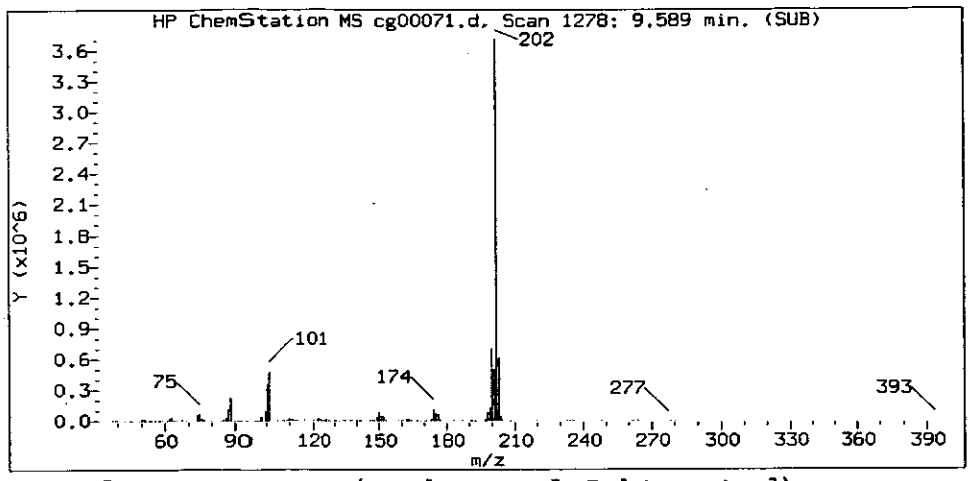
Sample Name: TP218DL

Lab Sample ID: 5118304DL

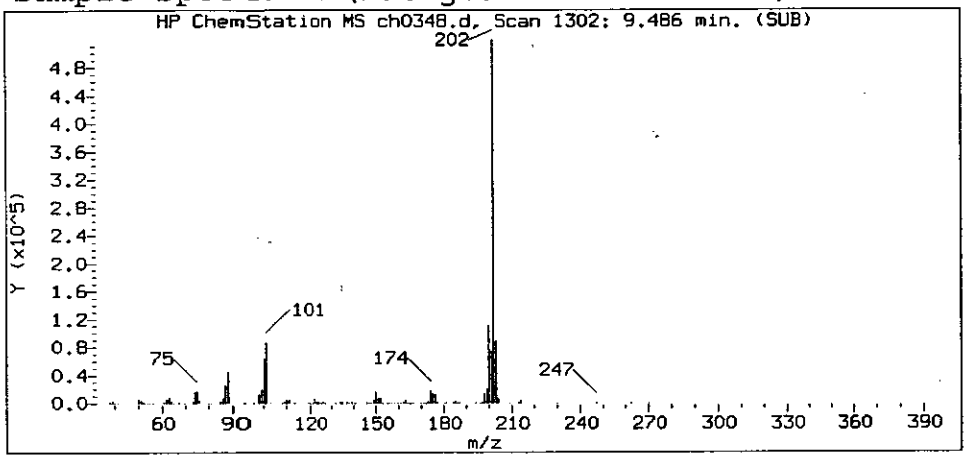
Compound Number	: 124
Compound Name	: Anthracene
Scan Number	: 1152
Retention Time (minutes)	: 8.564
Quant Ion	: 178.0
Area (flag)	: 63848
Concentration (ng/ul)	: 7.1760

8151

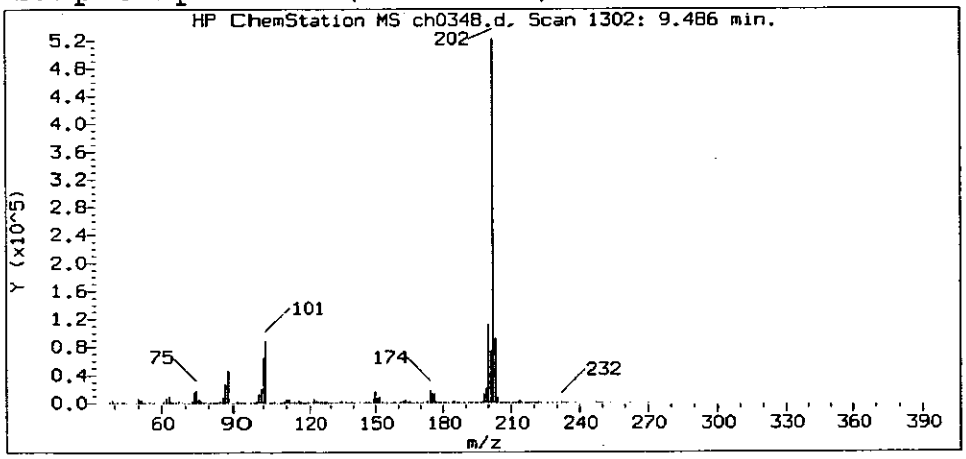
Reference Standard Spectrum for Fluoranthene

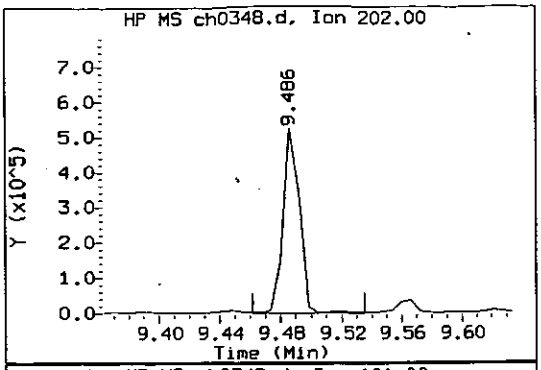


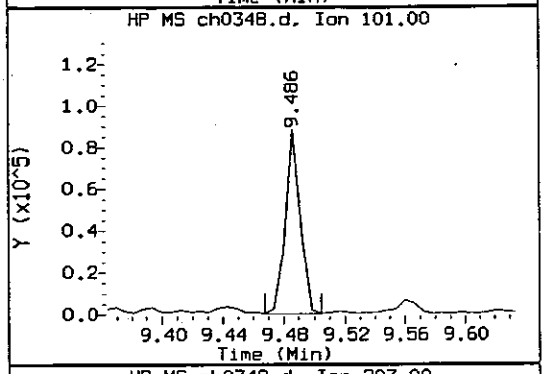
Sample Spectrum (Background Subtracted)

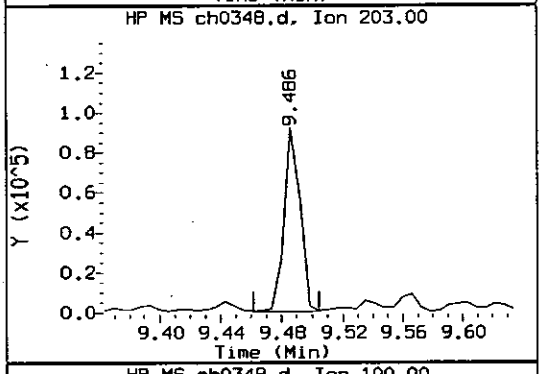


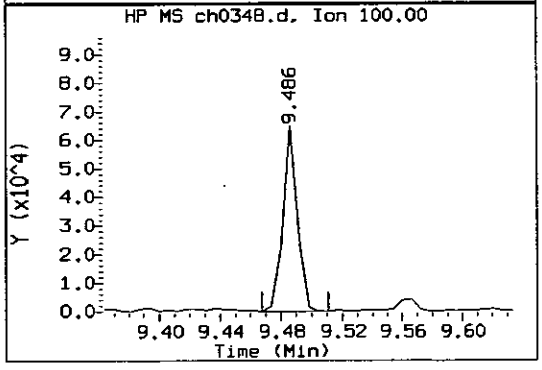
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

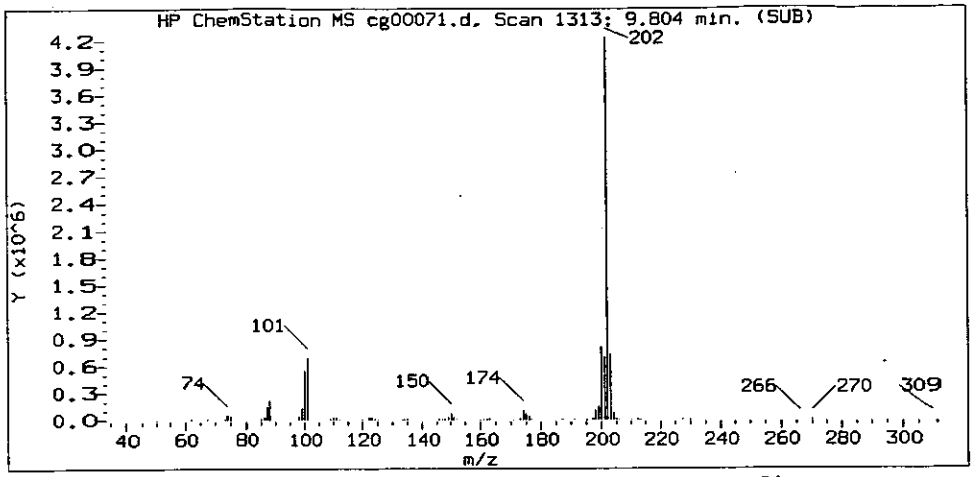
Sample Name: TP218DL

Lab Sample ID: 5118304DL

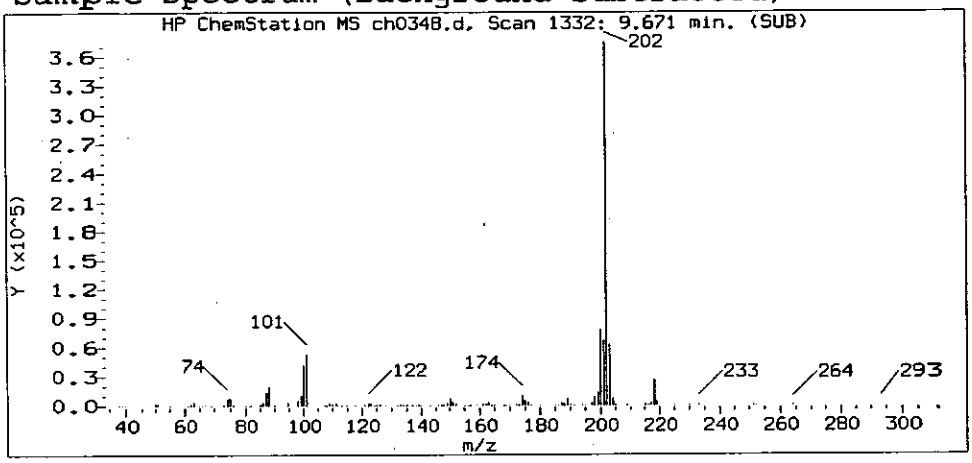
Compound Number : 134
Compound Name : Fluoranthene
Scan Number : 1302
Retention Time (minutes): 9.486
Quant Ion : 202.0
Area (flag) : 383501
Concentration (ng/ul) : 39.6853

0152

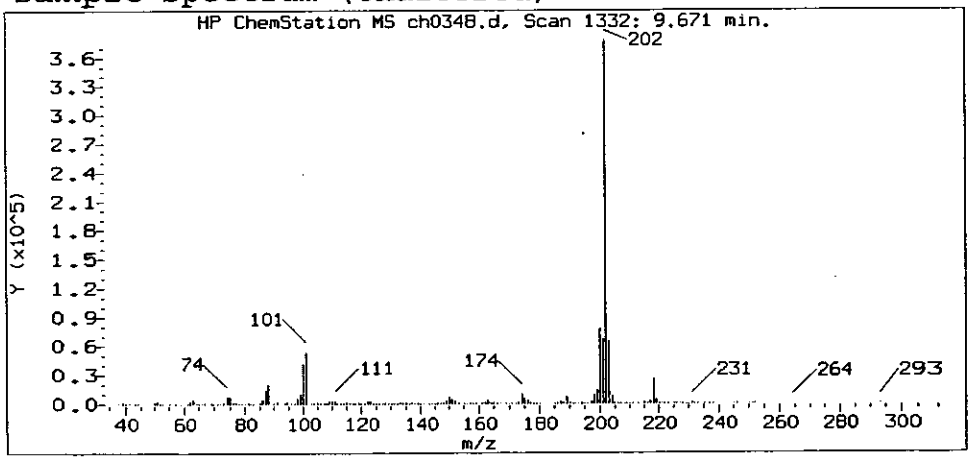
Reference Standard Spectrum for Pyrene

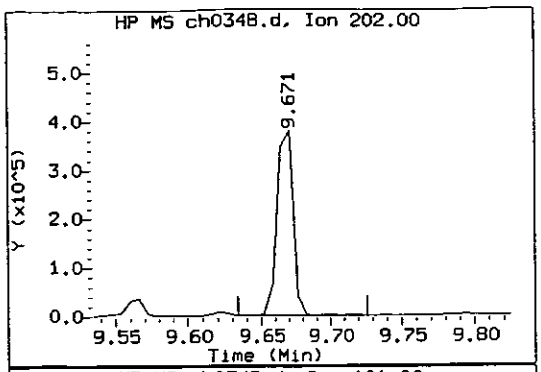


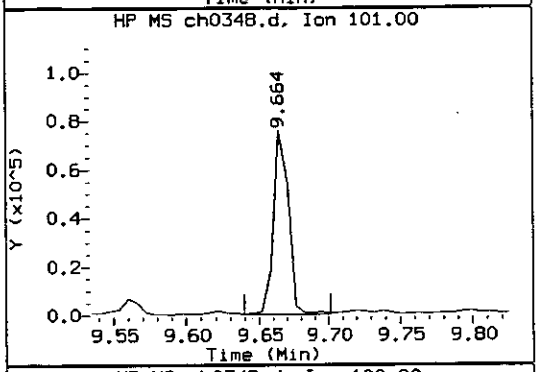
Sample Spectrum (Background Subtracted)

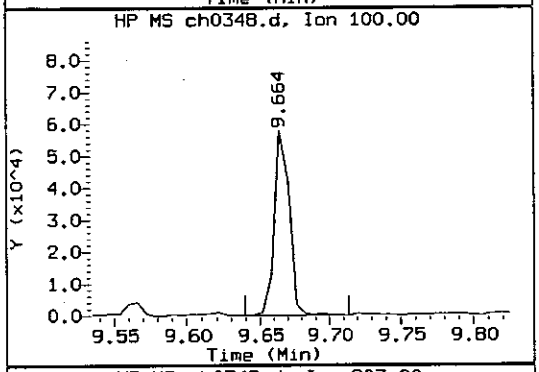


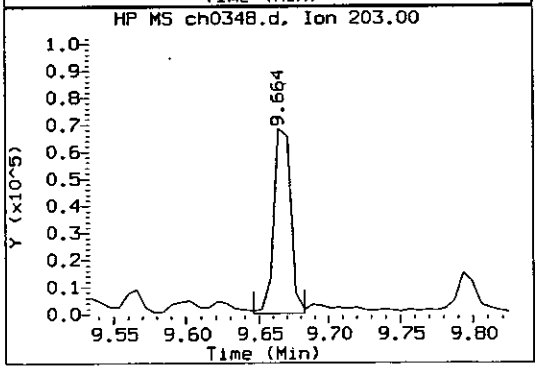
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

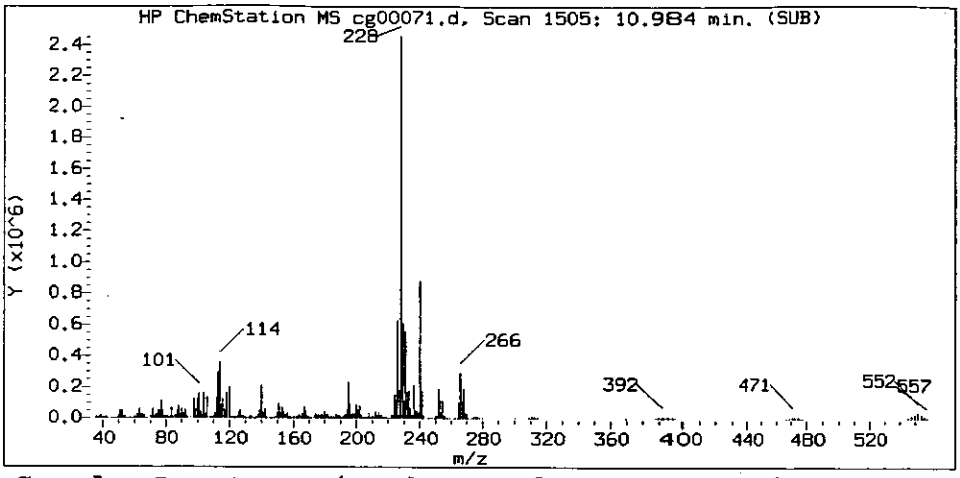
Sample Name: TP218DL

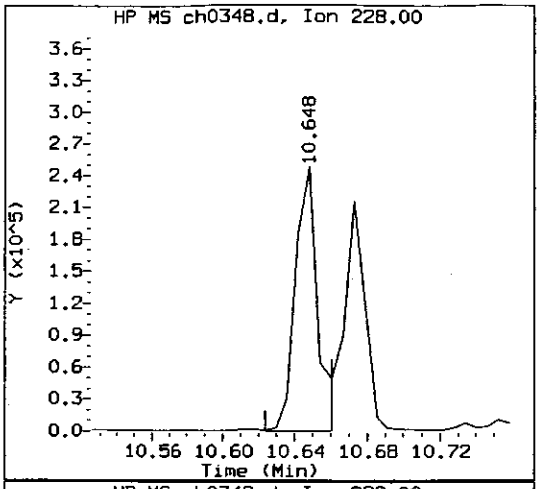
Lab Sample ID: 5118304DL

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1332
Retention Time (minutes)	: 9.671
Quant Ion	: 202.0
Area (flag)	: 311570
Concentration (ng/ul)	: 40.2773

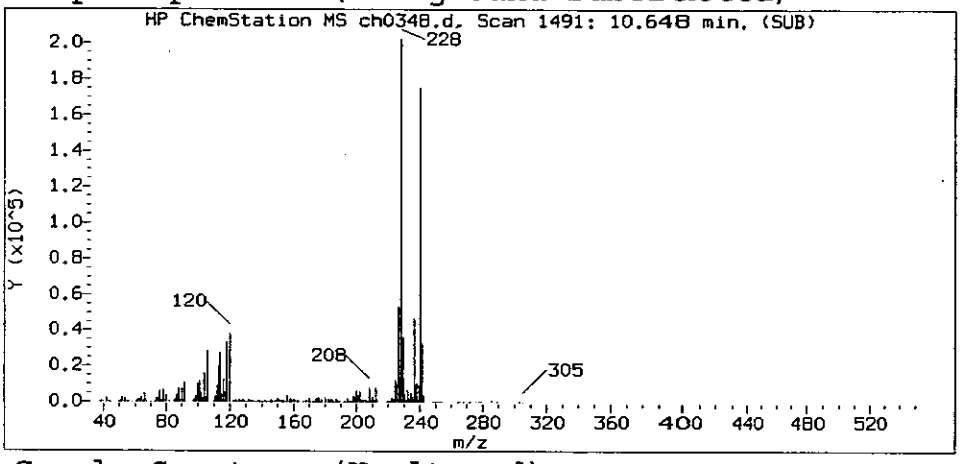
0153

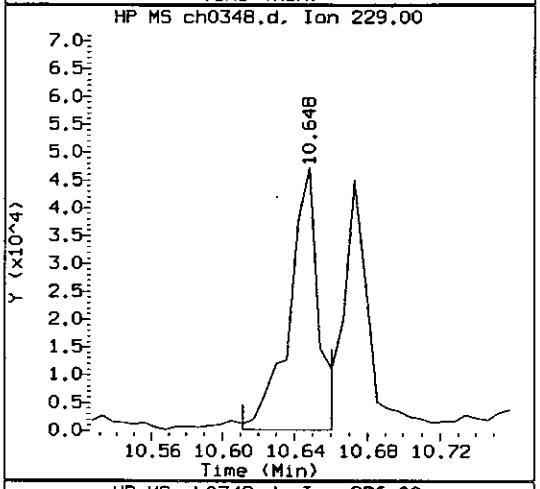
Reference Standard Spectrum for Benzo(a)anthracene



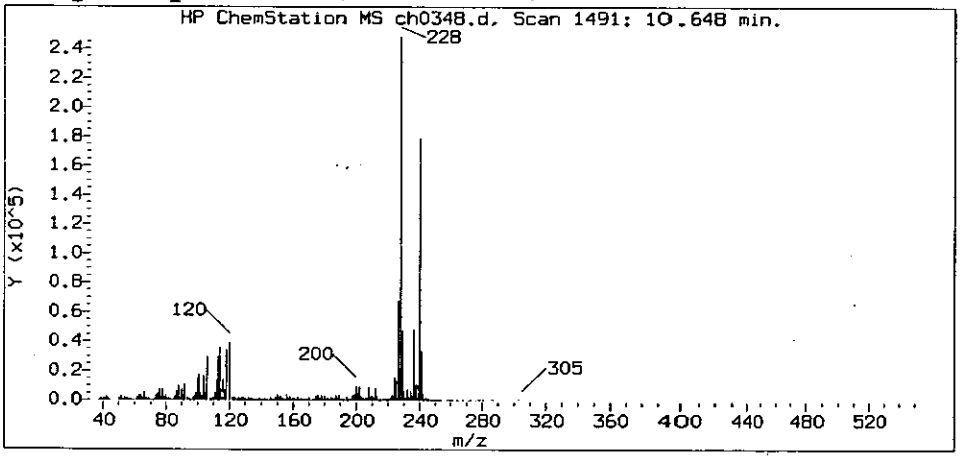


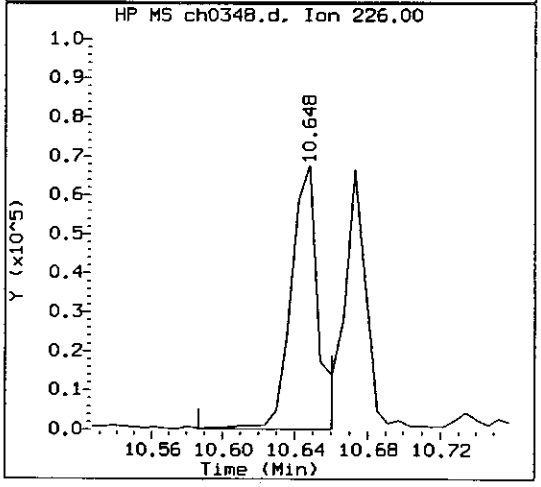
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

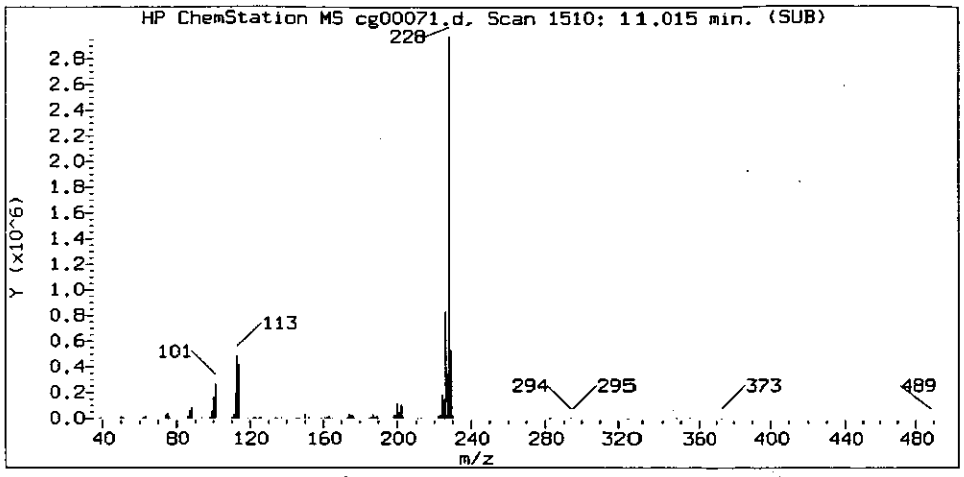
Sample Name: TP218DL

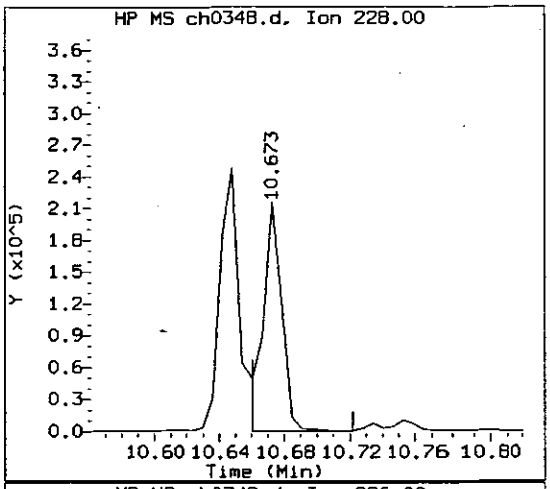
Lab Sample ID: 5118304DL

Compound Number	: 146
Compound Name	: Benzo(a)anthracene
Scan Number	: 1491
Retention Time (minutes)	: 10.648
Quant Ion	: 228.0
Area (flag)	: 205543
Concentration (ng/ul)	: 29.4076

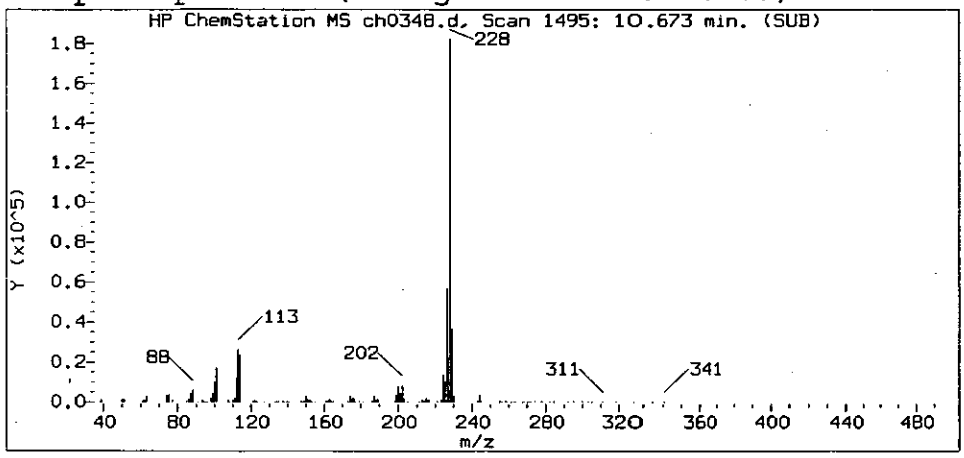
0154

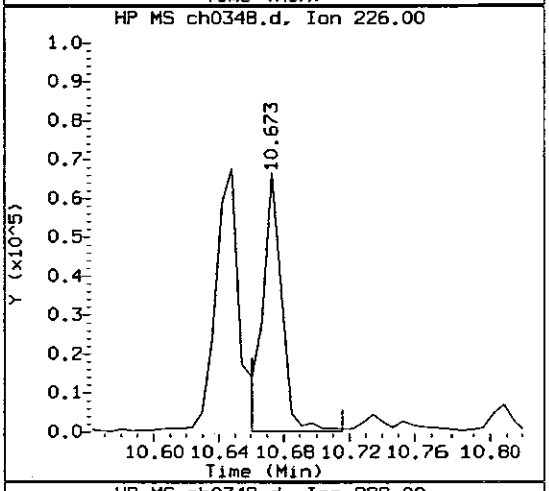
Reference Standard Spectrum for Chrysene



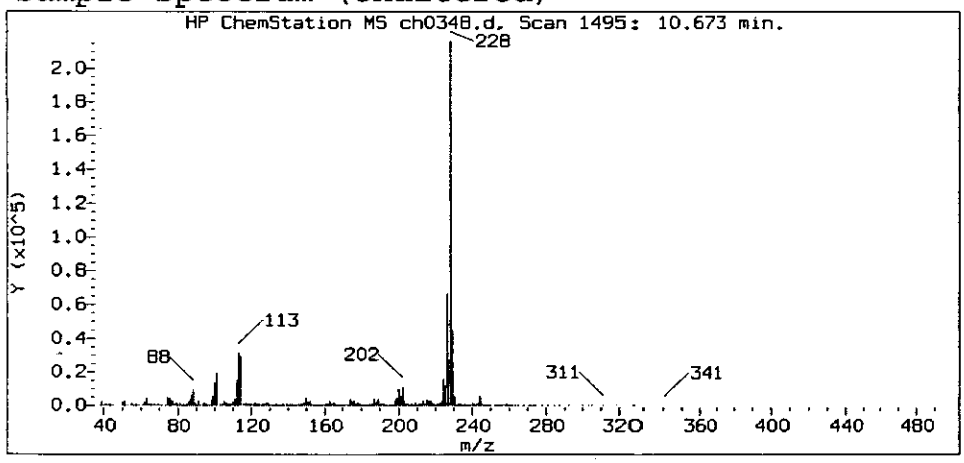


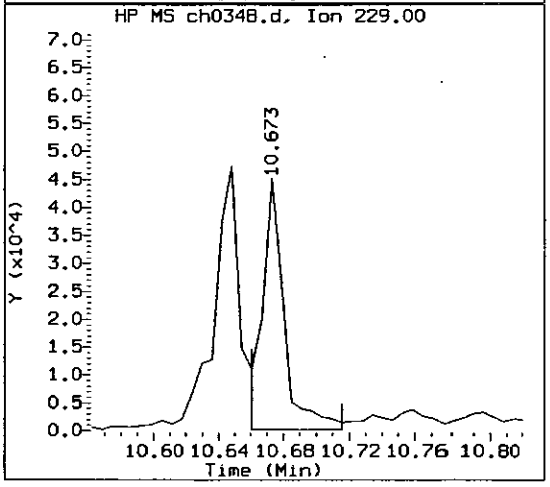
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

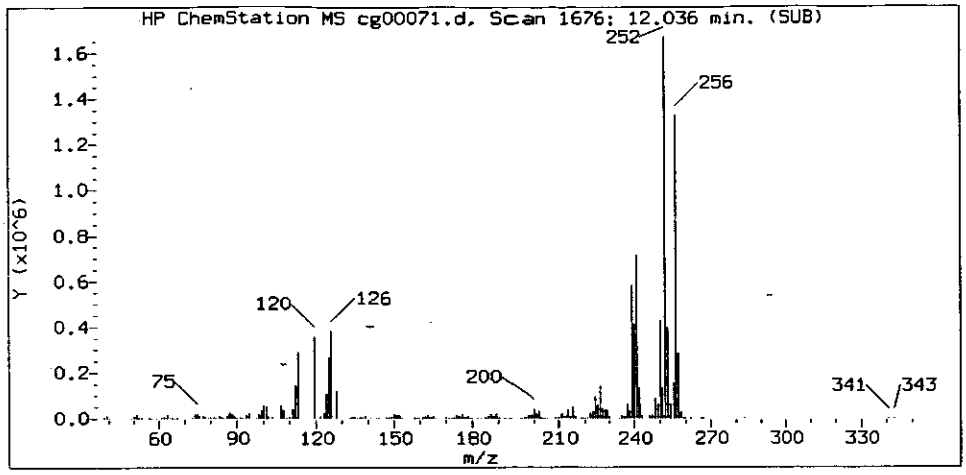
Sample Name: TP218DL

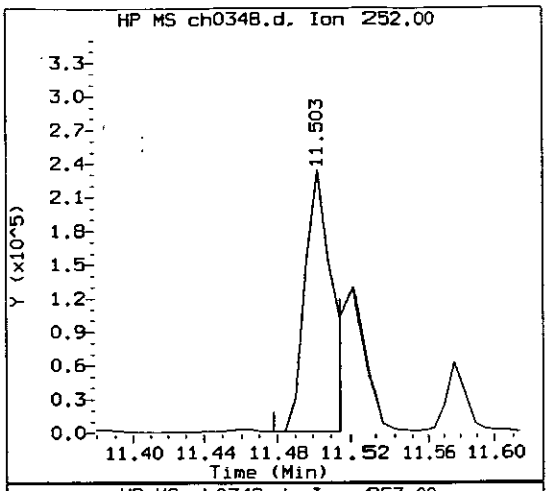
Lab Sample ID: 5118304DL

Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1495
Retention Time (minutes)	: 10.673
Quant Ion	: 228.0
Area (flag)	: 172709
Concentration (ng/ul)	: 25.0390

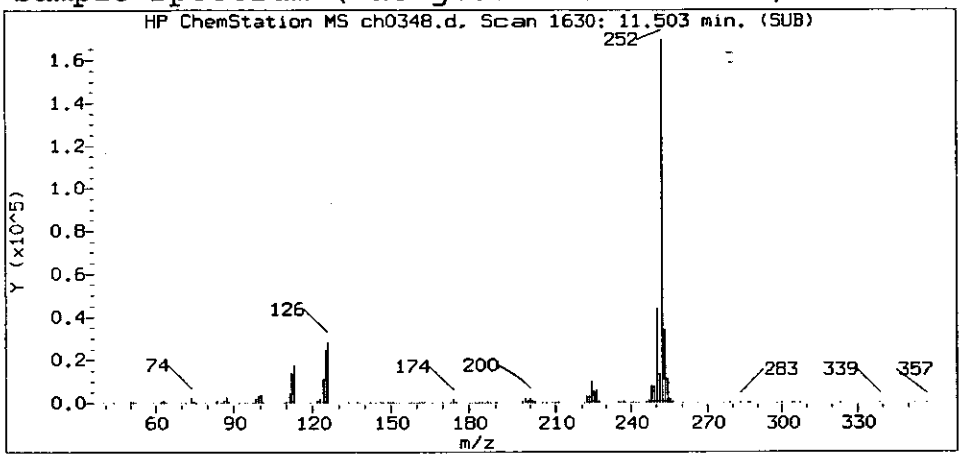
8155

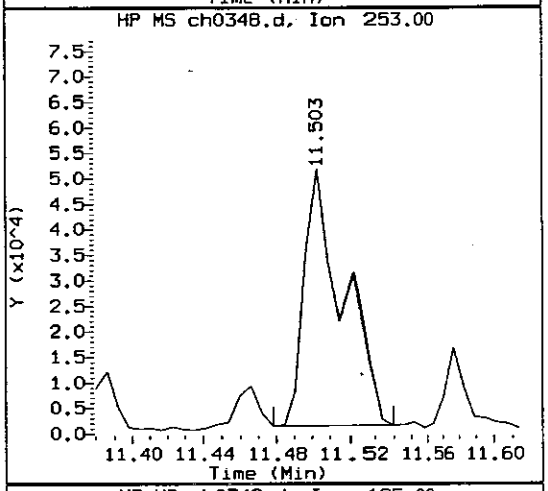
Reference Standard Spectrum for Benzo(b)fluoranthene



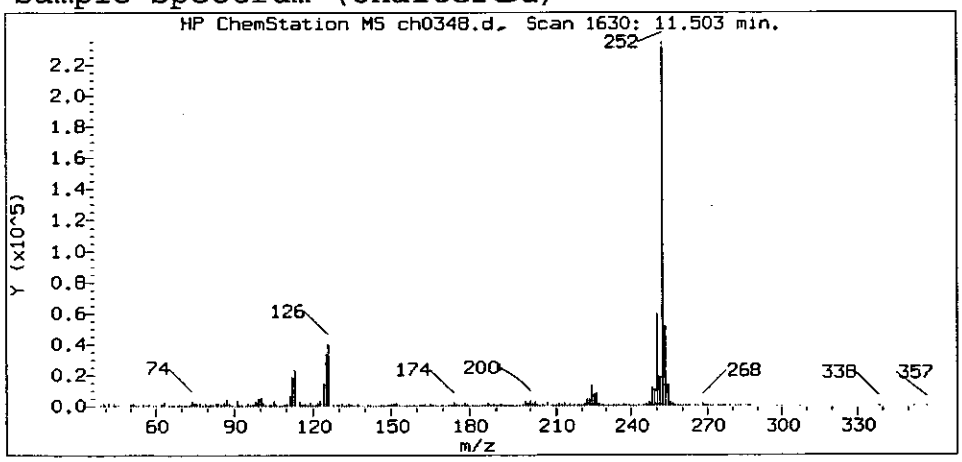


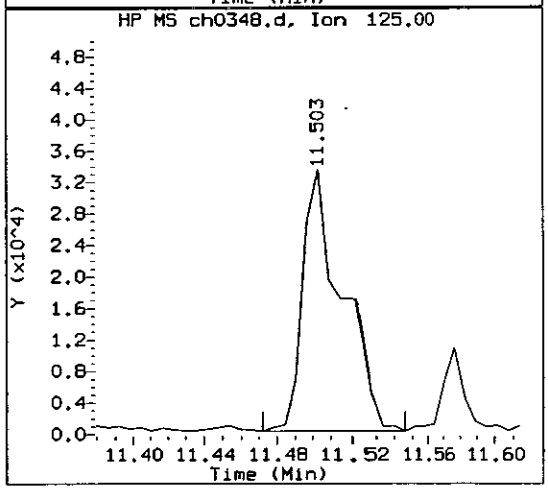
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: facO1858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

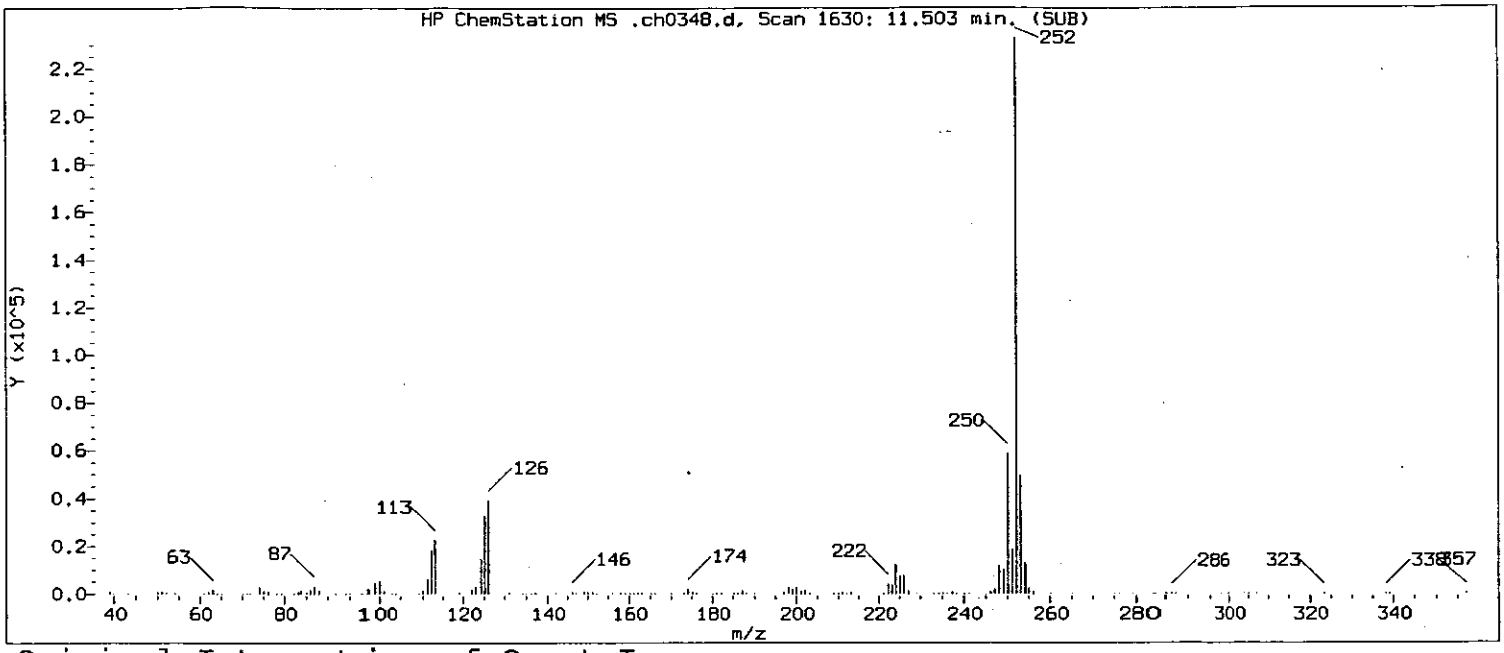
Sample Name: TP218DL

Lab Sample ID: 5118304DL

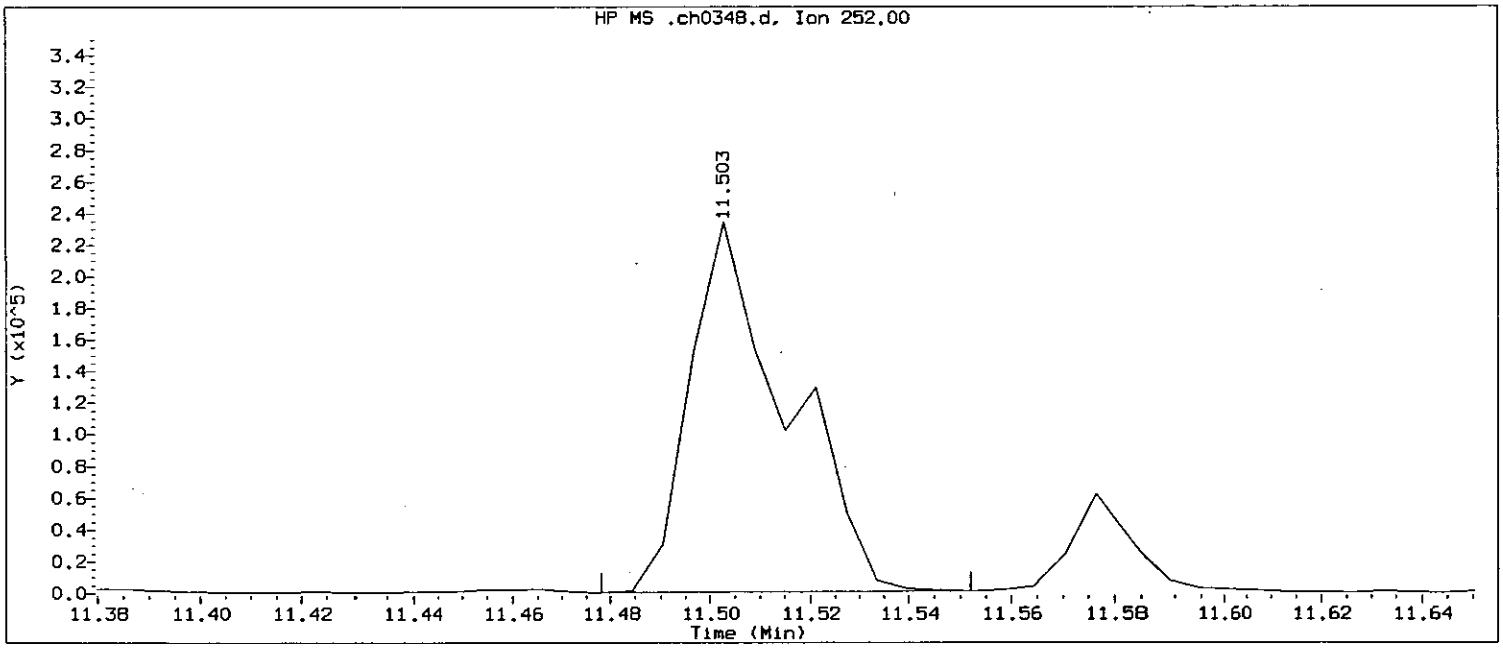
Compound Number	: 158
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1630
Retention Time (minutes)	: 11.503
Quant Ion	: 252.0
Area (flag)	: 247983 M
Concentration (ng/ul)	: 34.4833

0156

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:11 Automation

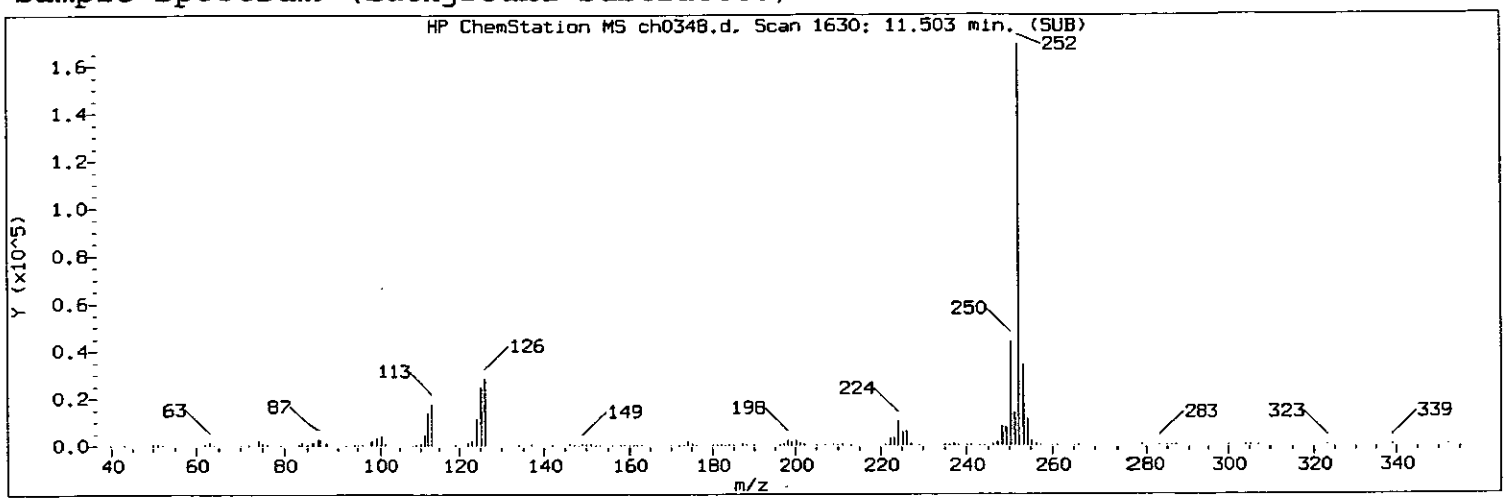
Sample Name: TP218DL Lab Sample ID: 5118304DL

Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1630
Retention Time (minutes): 11.503
Quant Ion : 252
Area : 317433
Concentration (ng/ul) : 44.1405
Integration start scan : 1625 Integration stop scan: 1637
Y at integration start : 862 Y at integration end: 1547

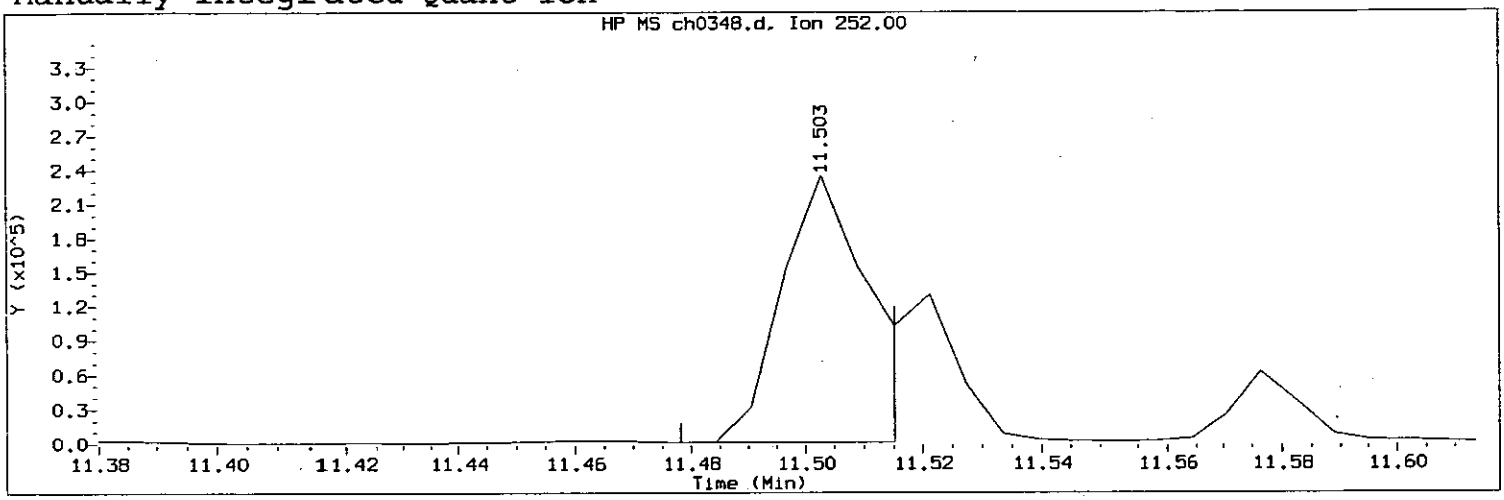
8157

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0348.d, generated on 08/13/2007 at 05:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

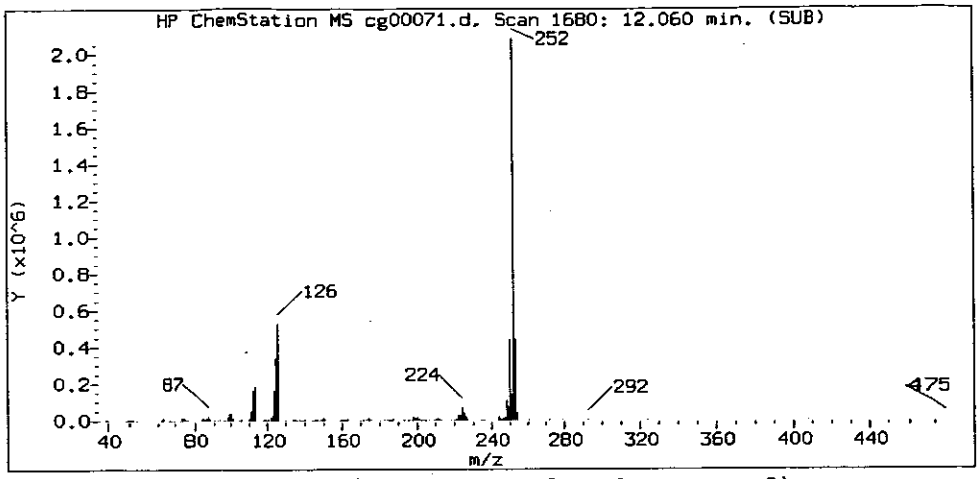
Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1630
Retention Time (minutes): 11.503
Quant Ion : 252
Area (flag) : 247983 M
Concentration (ng/ul) : 34.4833
Integration start scan : 1625 Integration stop scan: 1631
Y at integration start : 862 Y at integration end: 1204

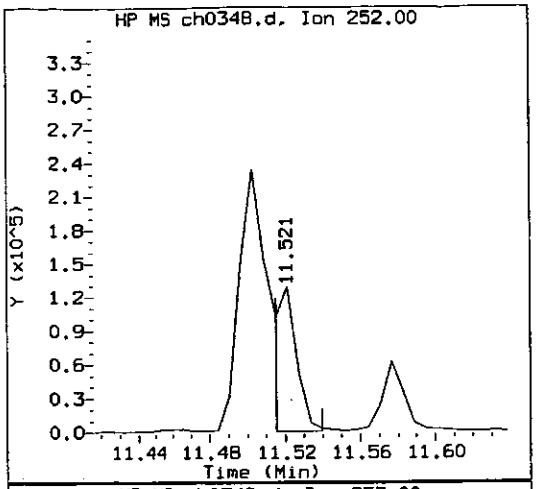
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: [signature] 8/13/07

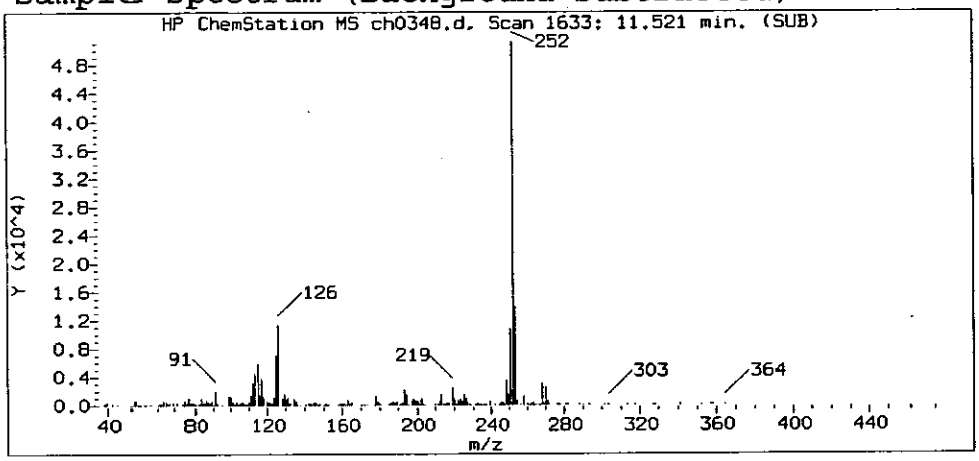
GC/MS audit/management approval: [signature] 8/13/07

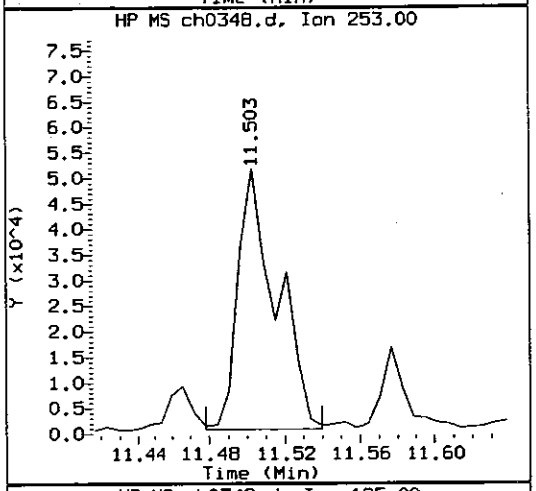
Reference Standard Spectrum for Benzo(k)fluoranthene



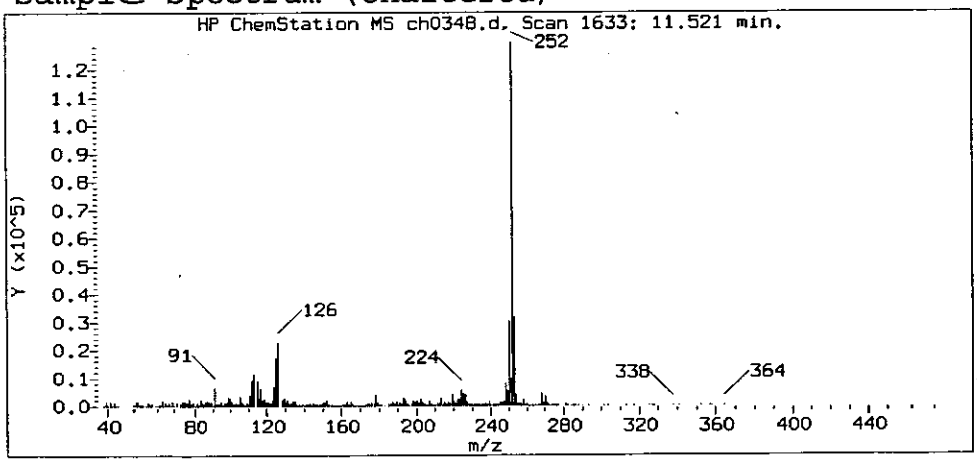


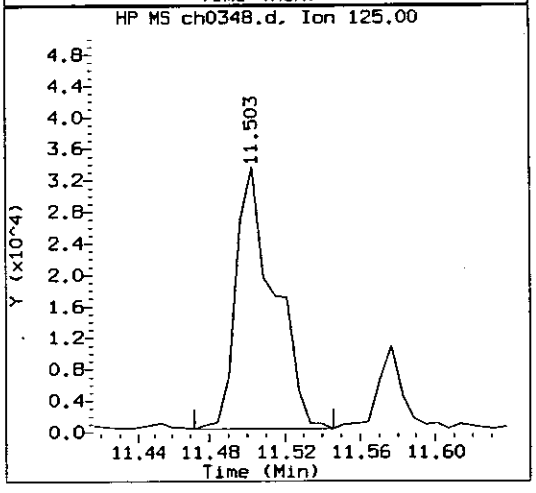
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

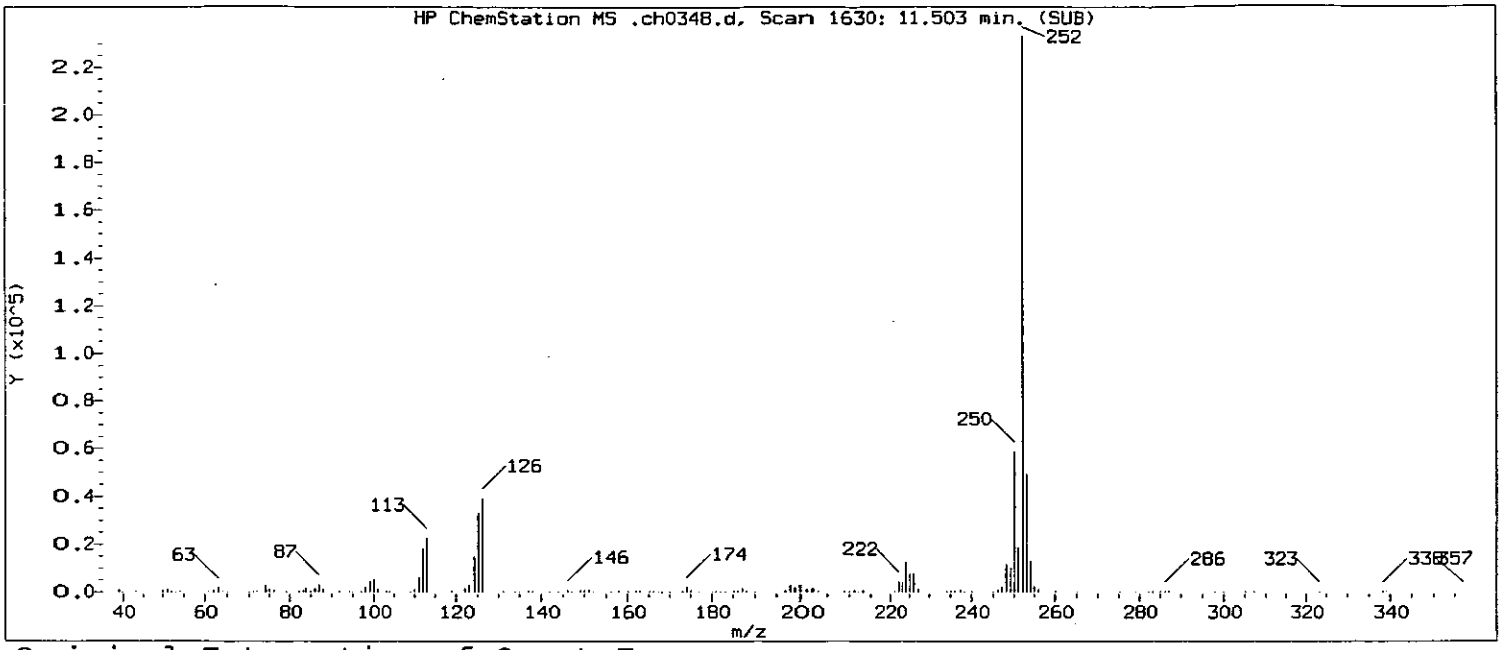
Sample Name: TP218DL

Lab Sample ID: 5118304DL

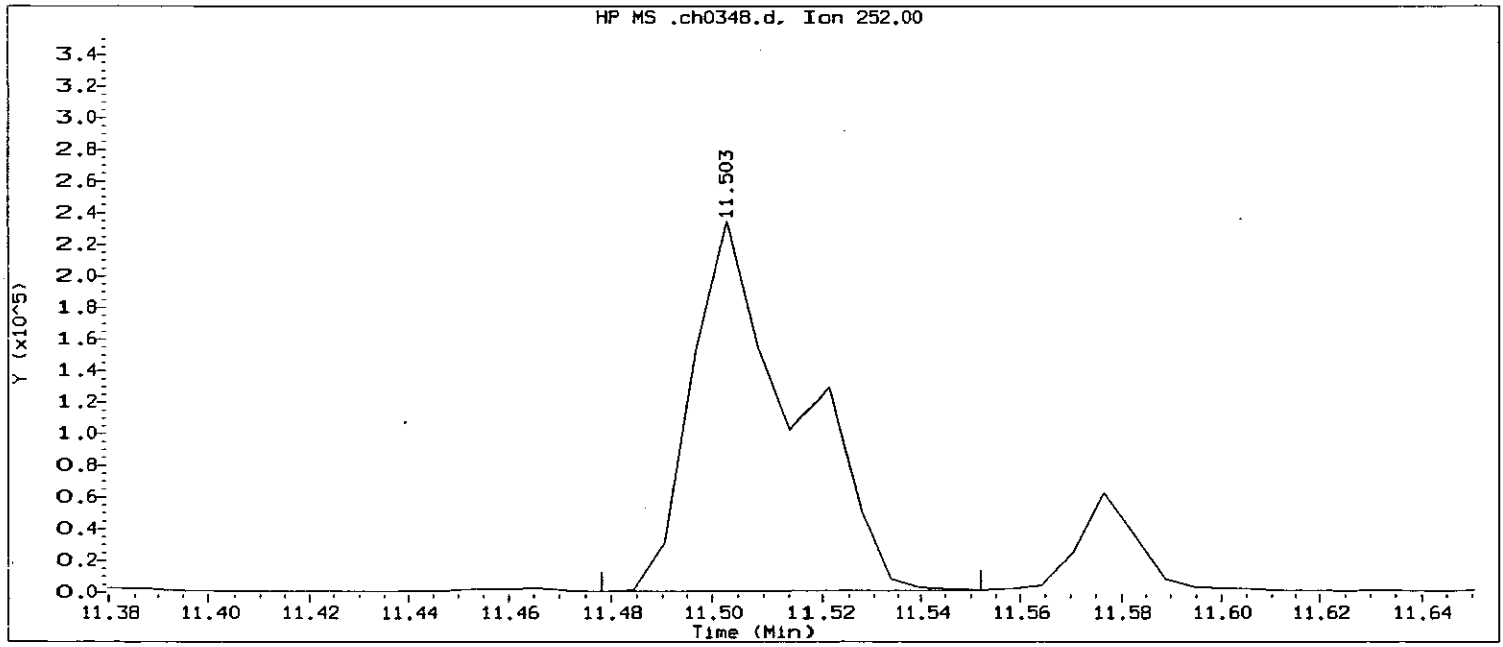
Compound Number	: 159
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1633
Retention Time (minutes)	: 11.521
Quant Ion	: 252.0
Area (flag)	: 106419 M
Concentration (ng/ul)	: 13.1676

8159

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:11 Automation

Sample Name: TP218DL Lab Sample ID: 5118304DL

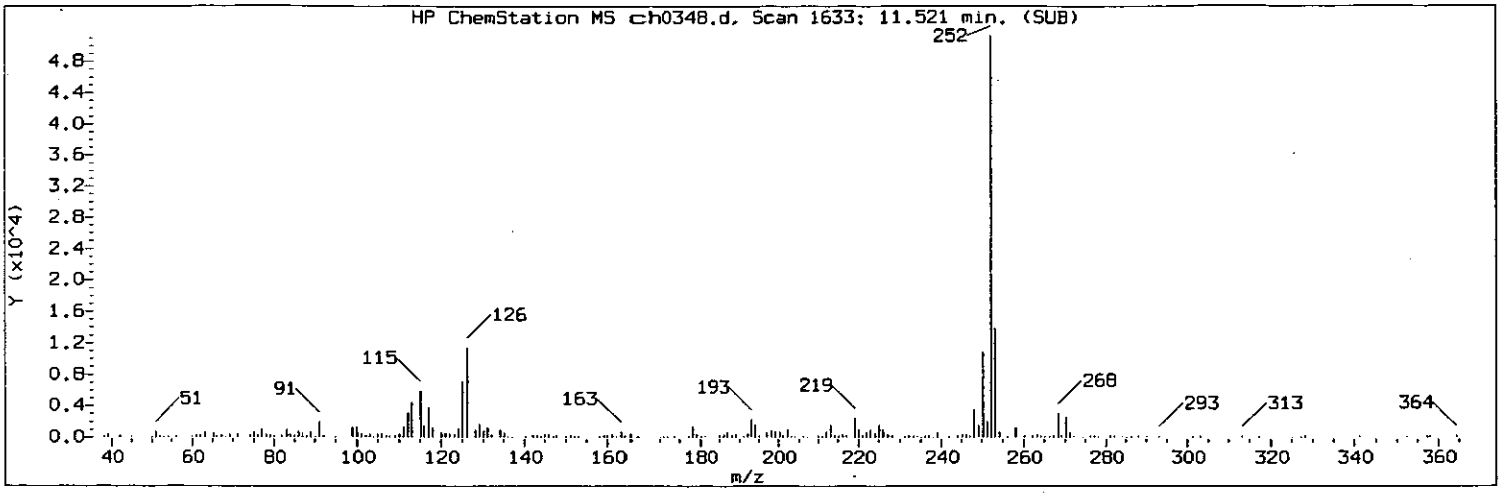
Compound Number : 159
Compound Name : Benzo(k)fluoranthene
Scan Number : 1630
Retention Time (minutes): 11.503
Quant Ion : 252
Area : 318193
Concentration (ng/ul) : 39.3712
Integration start scan : 1625 Integration stop scan: 1637
Y at integration start : 862 Y at integration end: 1208

BSon 8-13-07

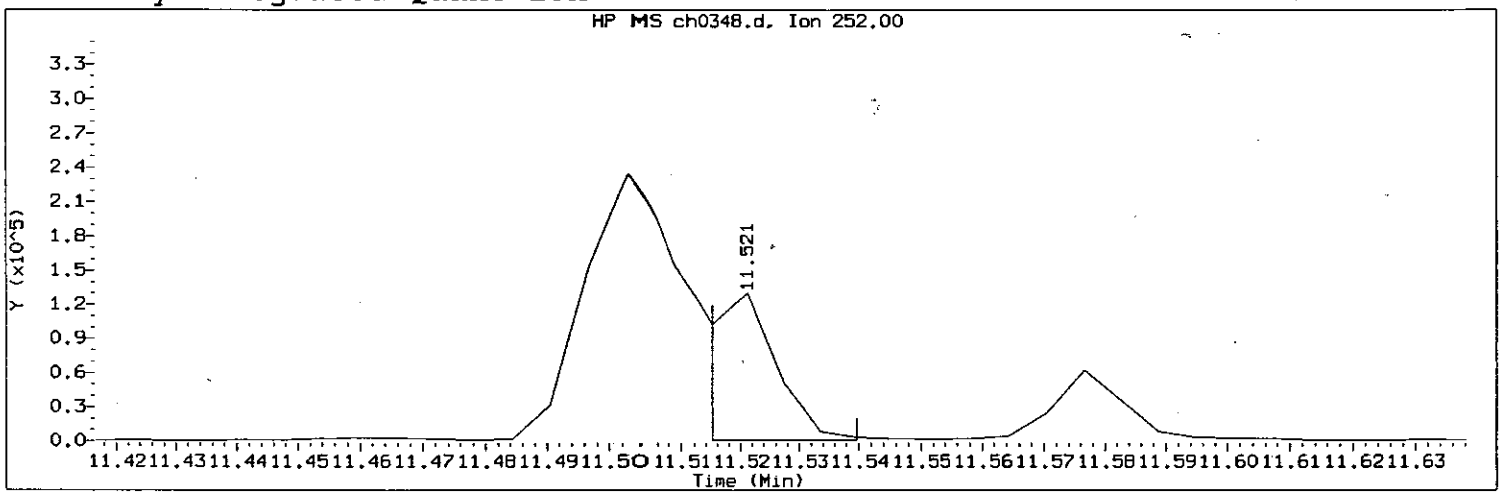
8168

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0348.d, generated on 08/13/2007 at 05:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

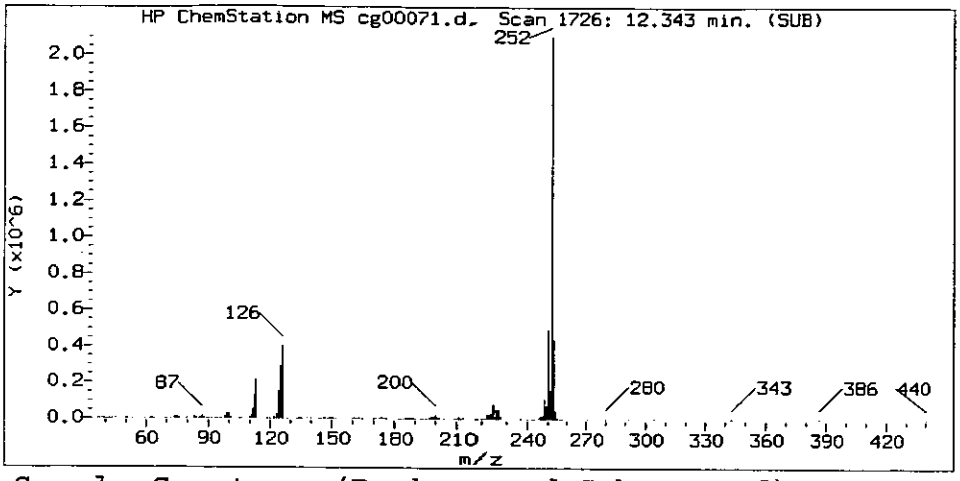
Compound Number : 159
Compound Name : Benzo(k)fluoranthene
Scan Number : 1633
Retention Time (minutes): 11.521
Quant Ion : 252
Area (flag) : 106419 M
Concentration (ng/ul) : 13.1676
Integration start scan : 1631 Integration stop scan: 1635
Y at integration start : 1399 Y at integration end: 1399

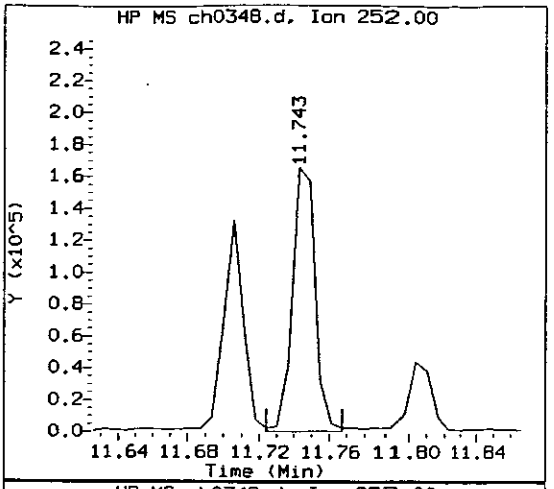
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: _____

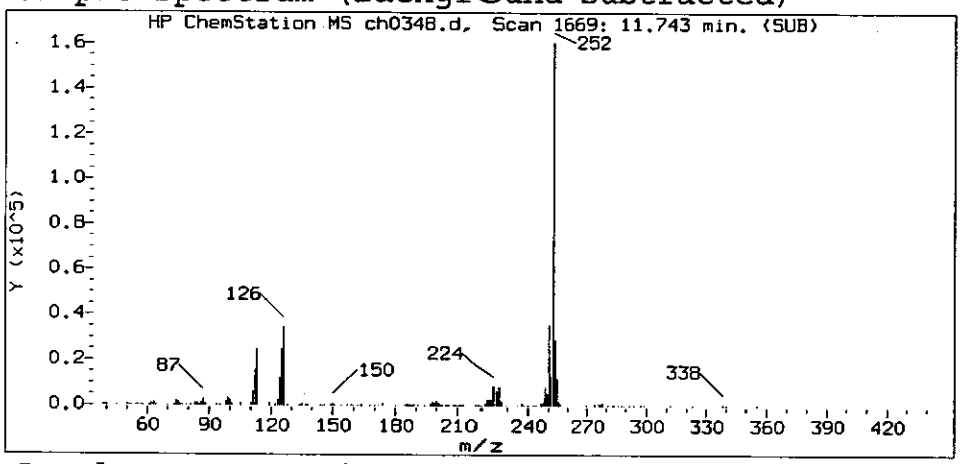
GC/MS audit/management approval: _____

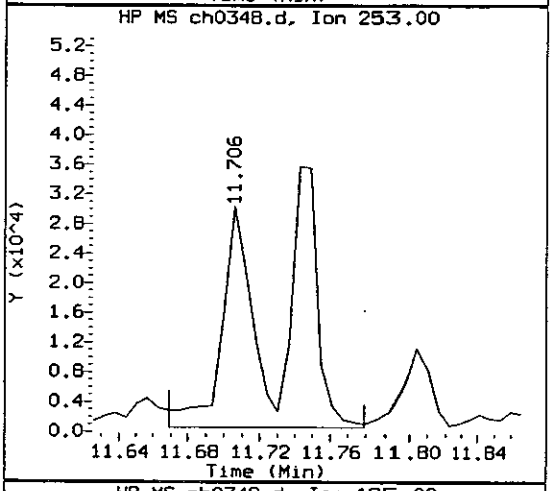
Reference Standard Spectrum for Benzo(a)pyrene



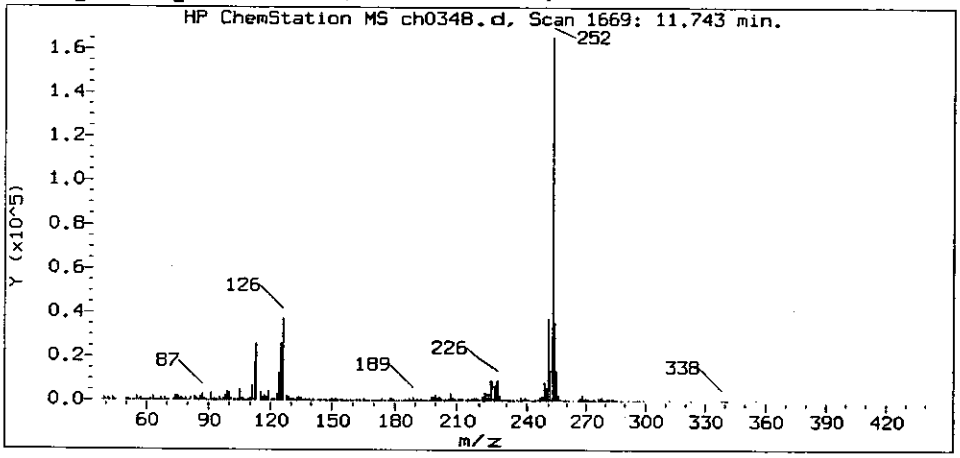


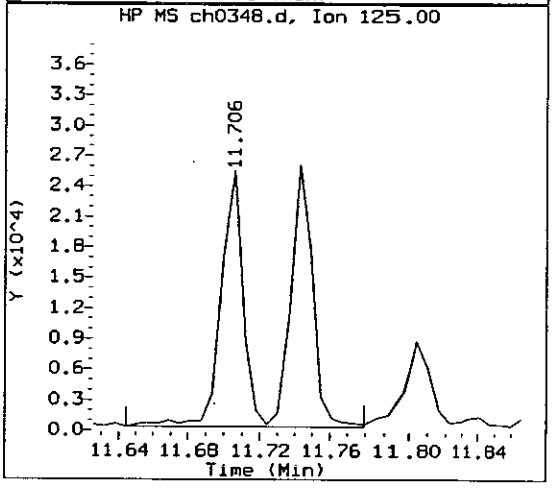
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

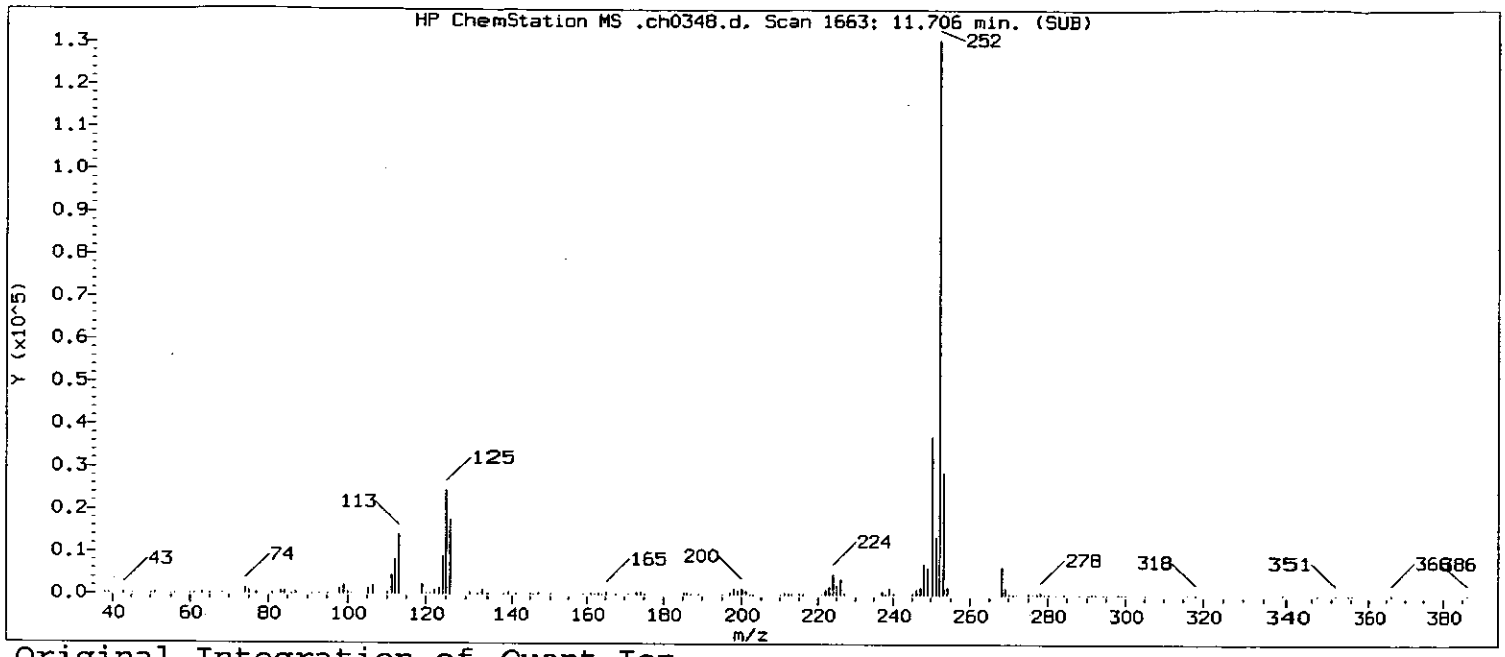
Sample Name: TP218DL

Lab Sample ID: 5118304DL

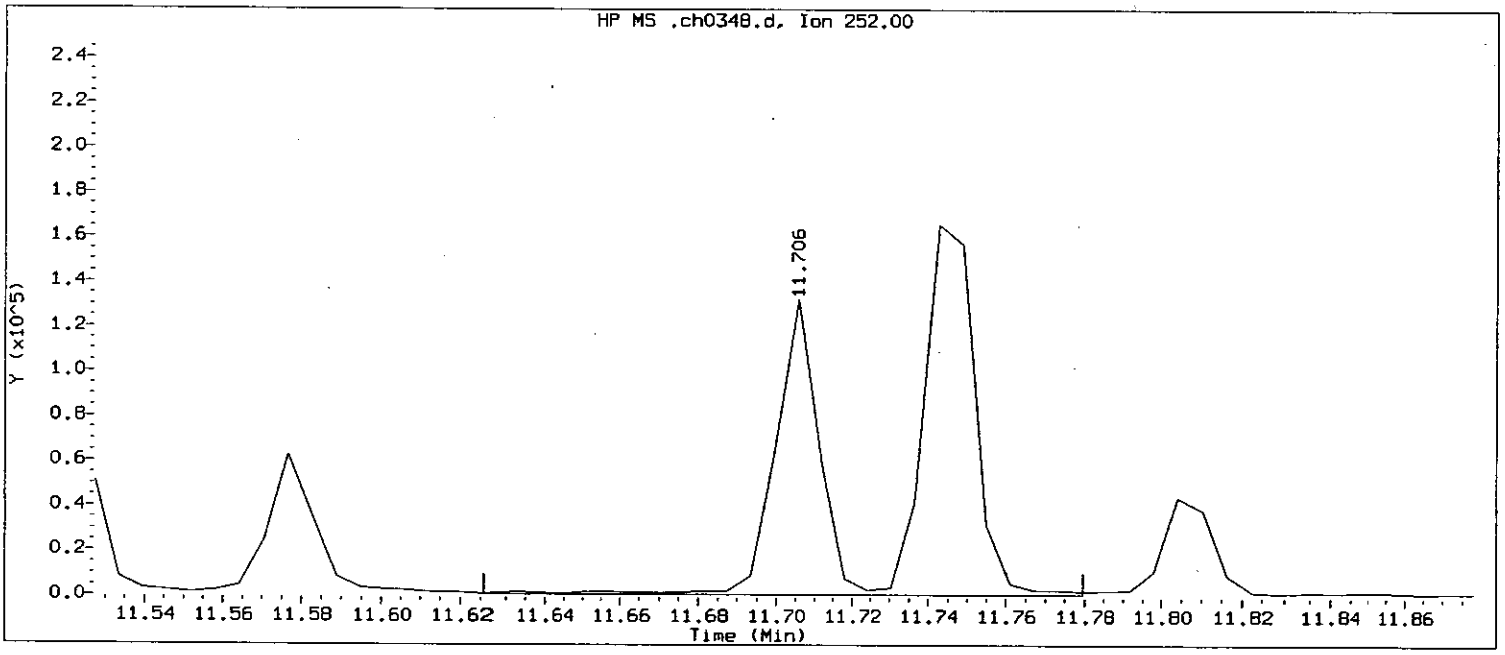
Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1669
Retention Time (minutes)	: 11.743
Quant Ion	: 252.0
Area (flag)	: 149965 M
Concentration (ng/ul)	: 21.2208

8162

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:11 Automation

Sample Name: TP218DL Lab Sample ID: 5118304DL

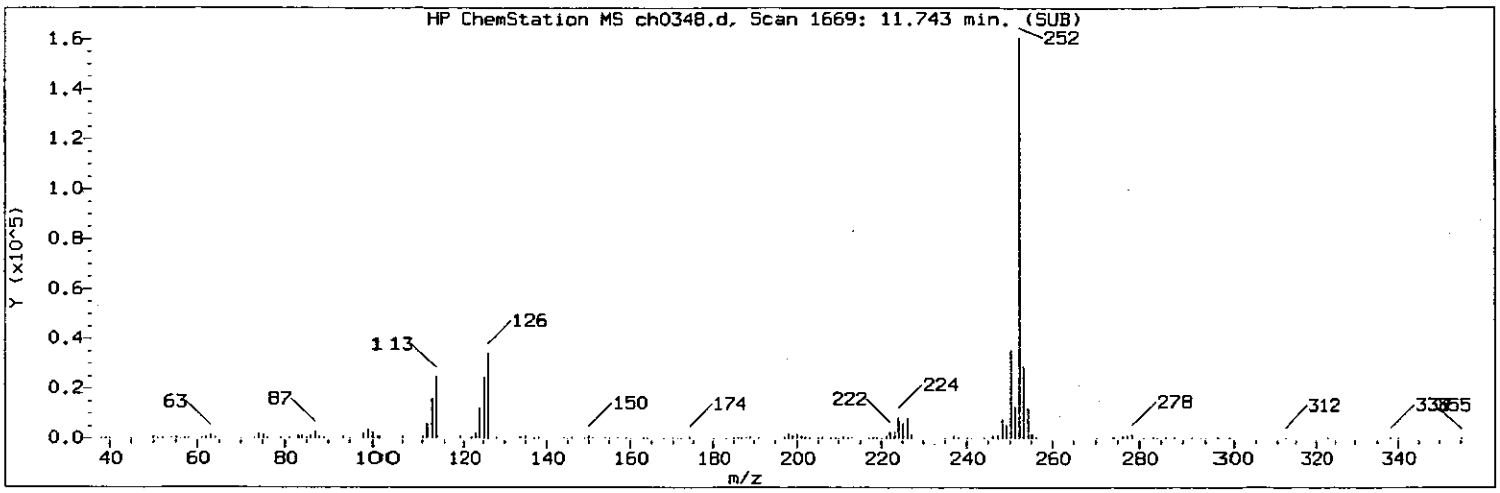
Compound Number	:	160
Compound Name	:	Benzo(a)pyrene
Scan Number	:	1663
Retention Time (minutes)	:	11.706
Quant Ion	:	252
Area	:	254682
Concentration (ng/ul)	:	36.0387
Integration start scan	:	1649 Integration stop scan: 1674
Y at integration start	:	585 Y at integration end: 585

8/13/07

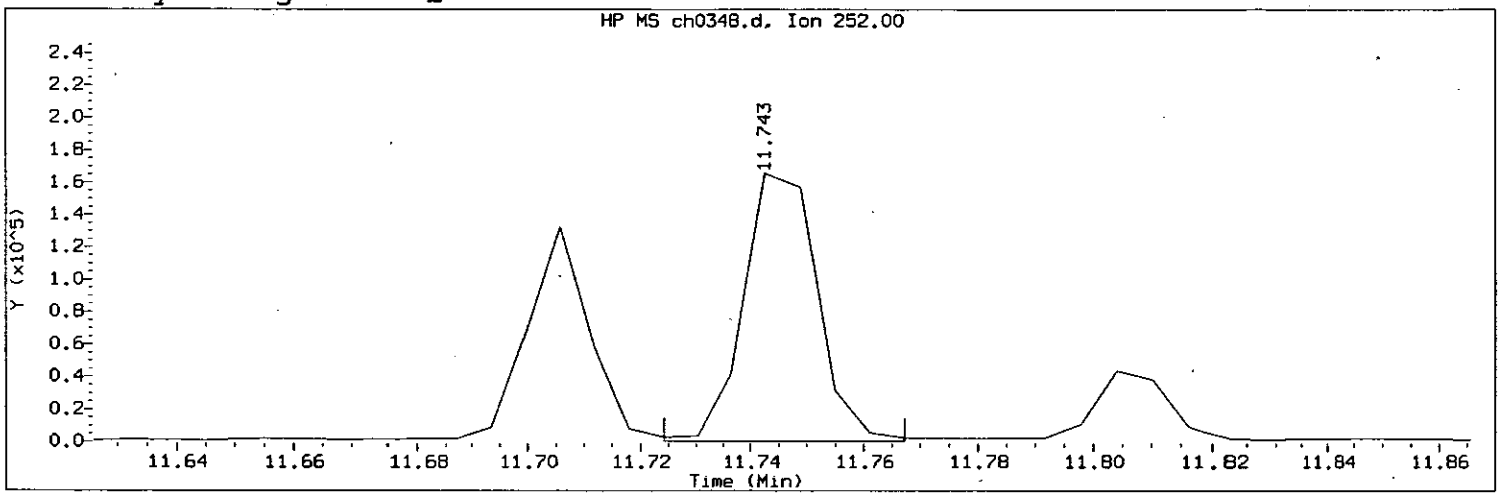
1663

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0348.d, generated on 08/13/2007 at 05:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

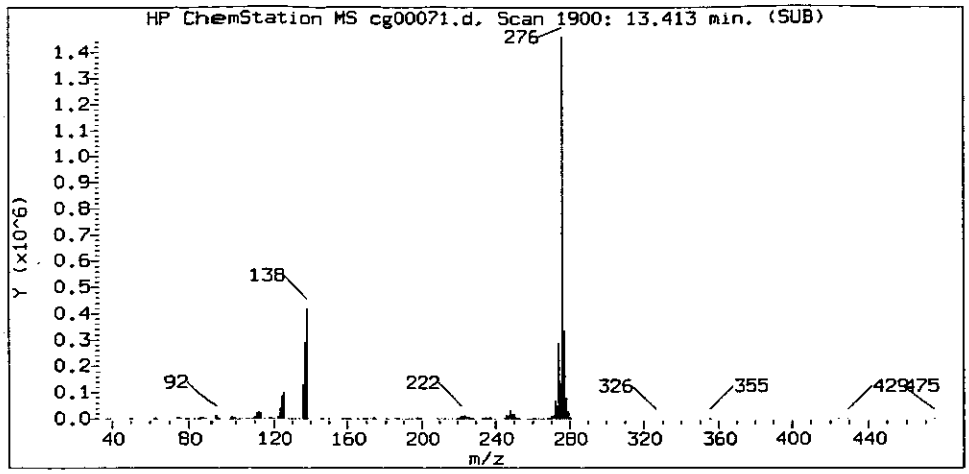
Compound Number : 160
Compound Name : Benzo(a)pyrene
Scan Number : 1669
Retention Time (minutes): 11.743
Quant Ion : 252
Area (flag) : 149965 M
Concentration (ng/ul) : 21.2208
Integration start scan : 1665 Integration stop scan: 1672
Y at integration start : 569 Y at integration end: 569

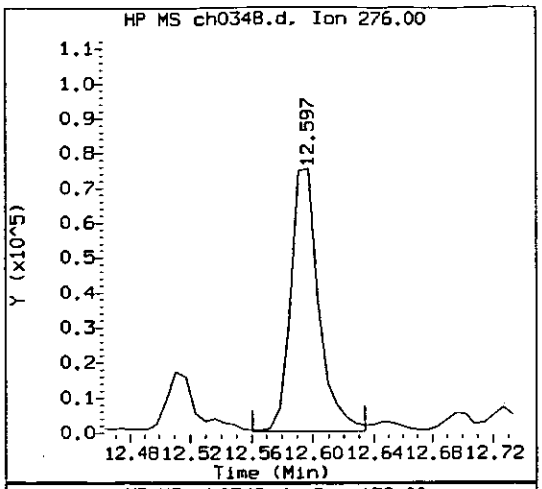
Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8/13/07

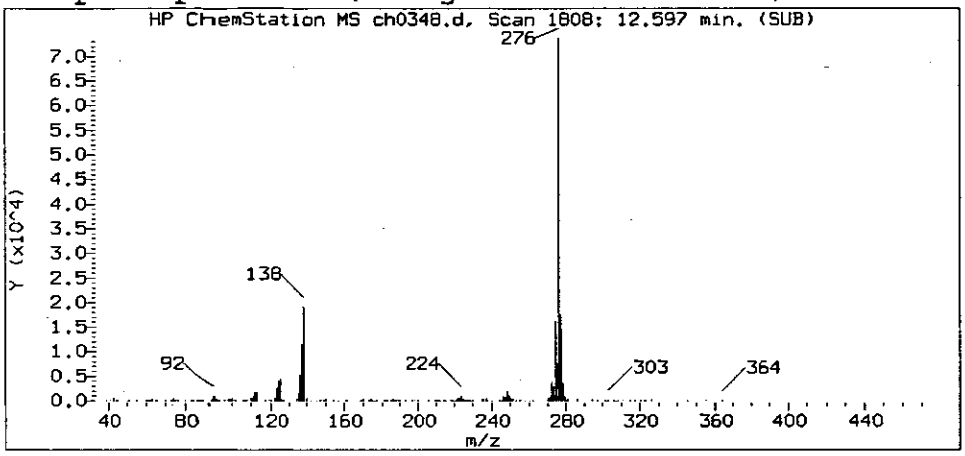
GC/MS audit/management approval: [signature] 8/13/07

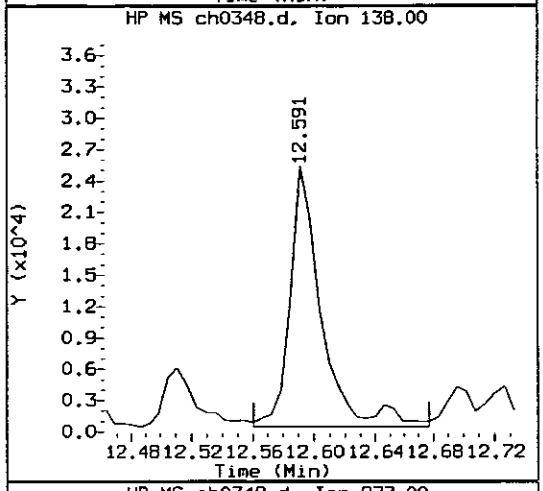
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



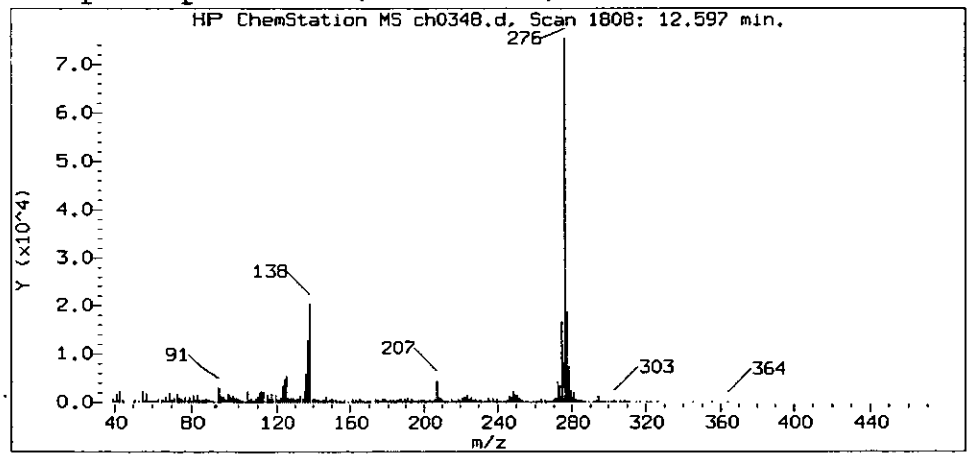


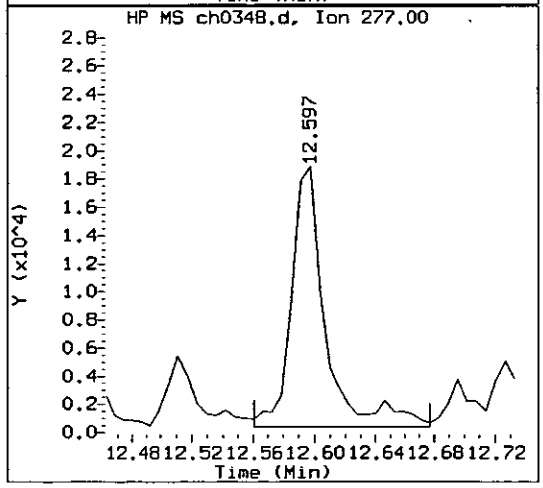
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

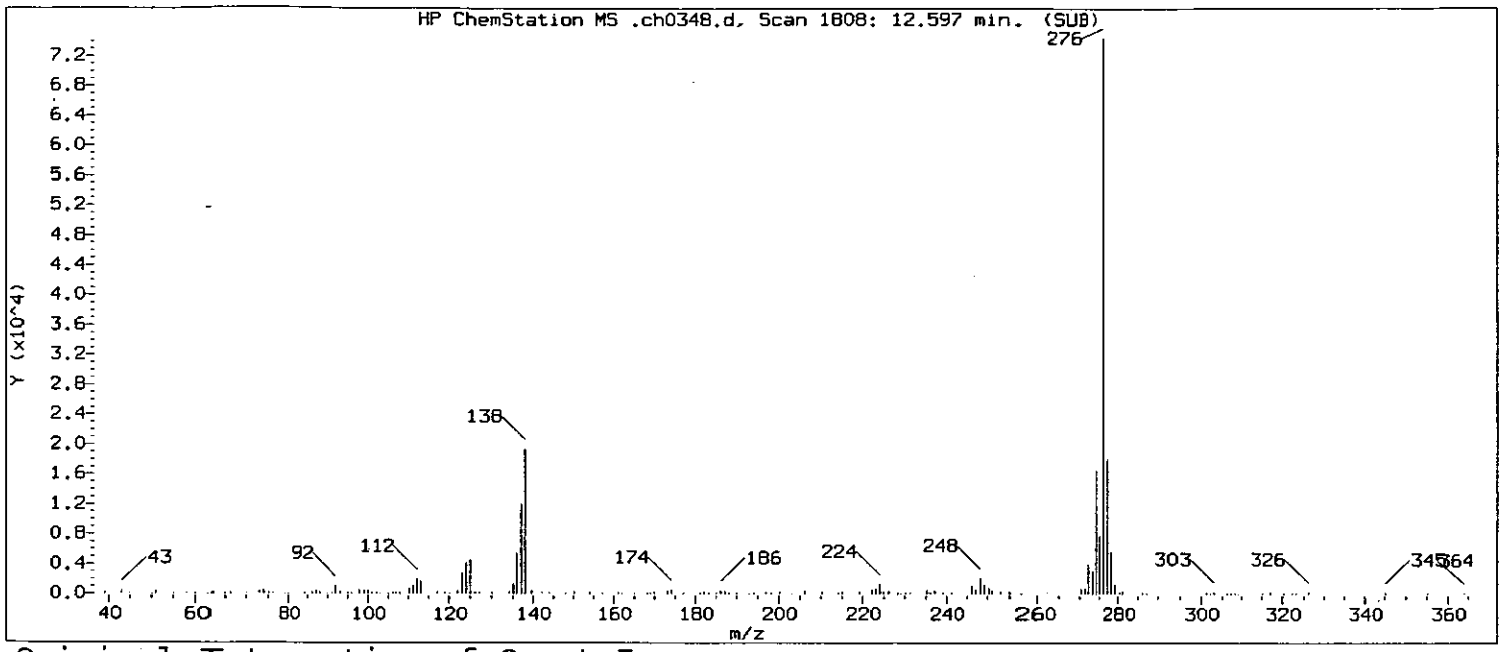
Sample Name: TP218DL

Lab Sample ID: 5118304DL

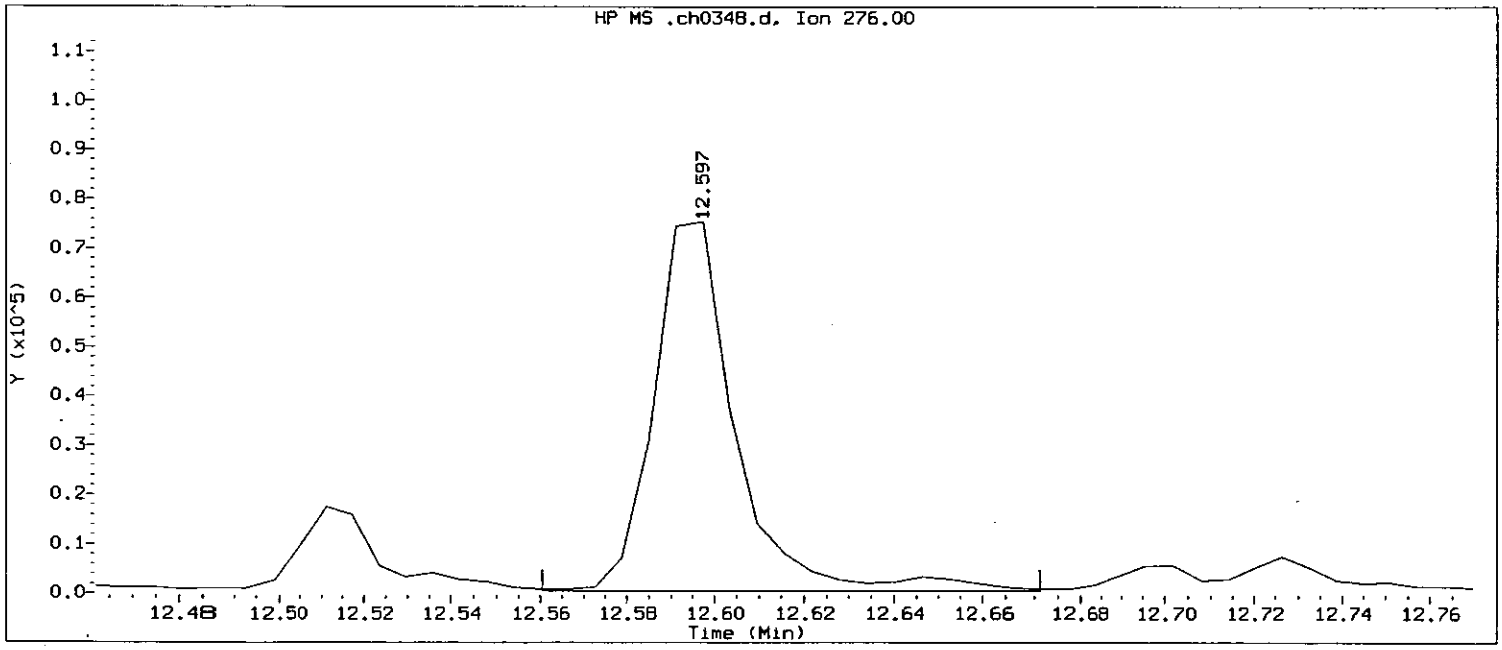
Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1808
Retention Time (minutes): 12.597
Quant Ion : 276.0
Area (flag) : 93560 M
Concentration (ng/ul) : 11.7738

0165

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File : /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:11 Automation

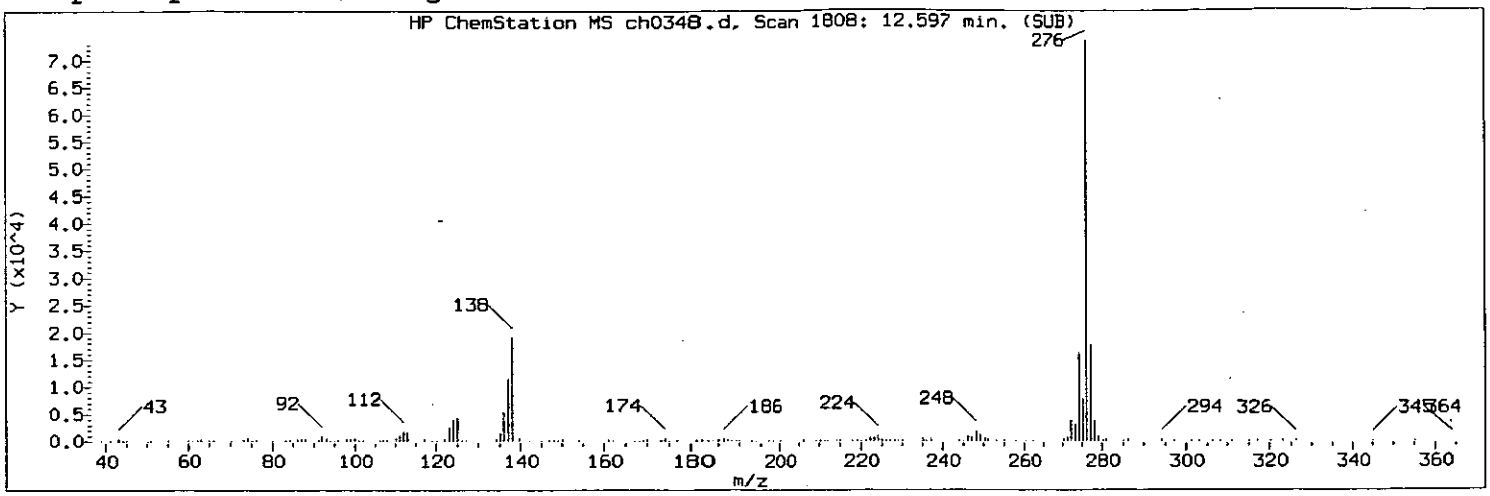
Sample Name: TP218DL Lab Sample ID: 5118304DL

Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1808
Retention Time (minutes): 12.597
Quant Ion : 276
Area : 97038
Concentration (ng/ul) : 12.2115
Integration start scan : 1801 Integration stop scan: 1819
Y at integration start : 527 Y at integration end: 527

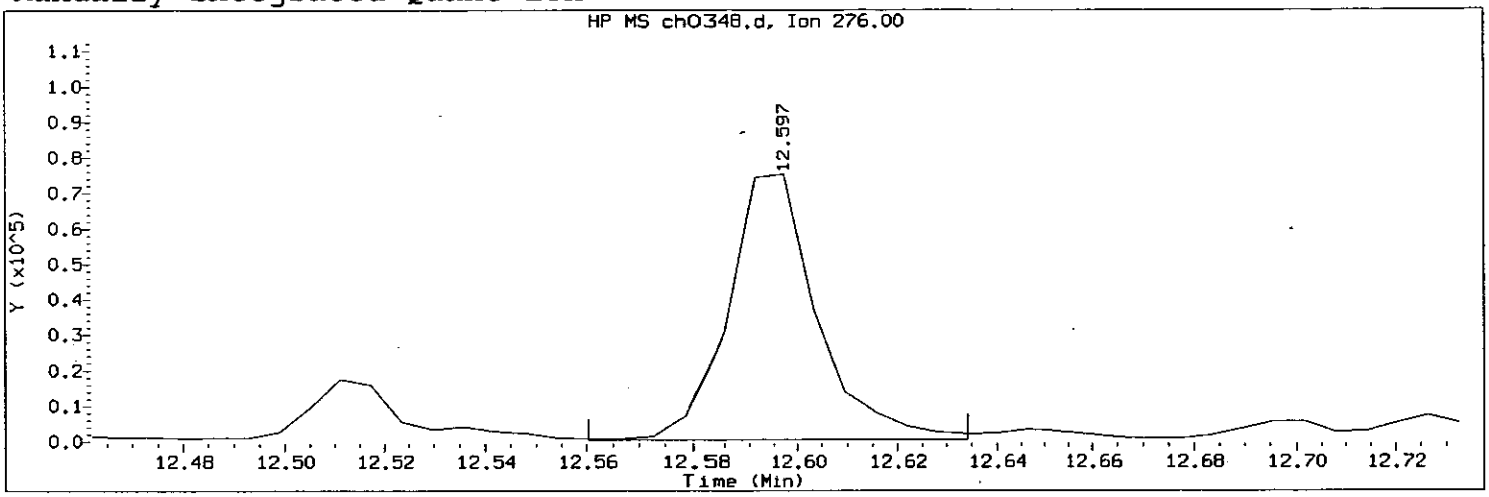
BGM 8130 8166

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0348.d, generated on 08/13/2007 at 05:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

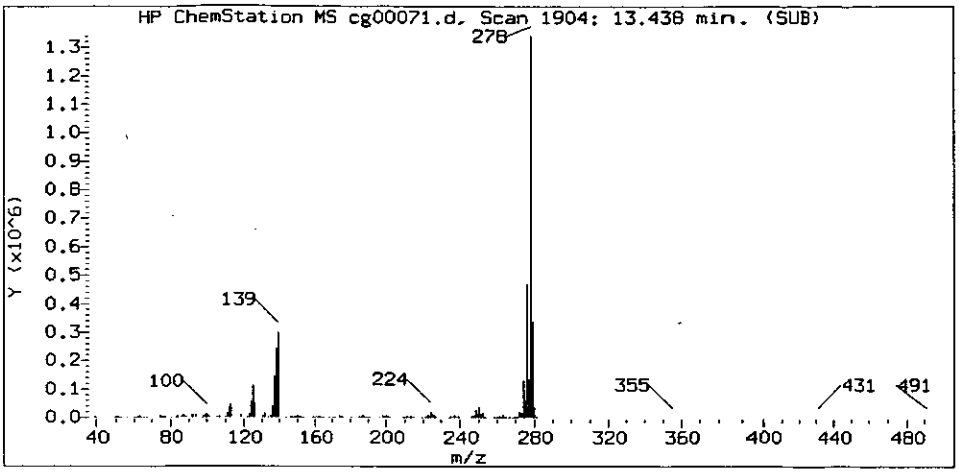
Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1808
Retention Time (minutes): 12.597
Quant Ion : 276
Area (flag) : 93560 M
Concentration (ng/ul) : 11.7738
Integration start scan : 1801 Integration stop scan: 1813
Y at integration start : 527 Y at integration end: 527

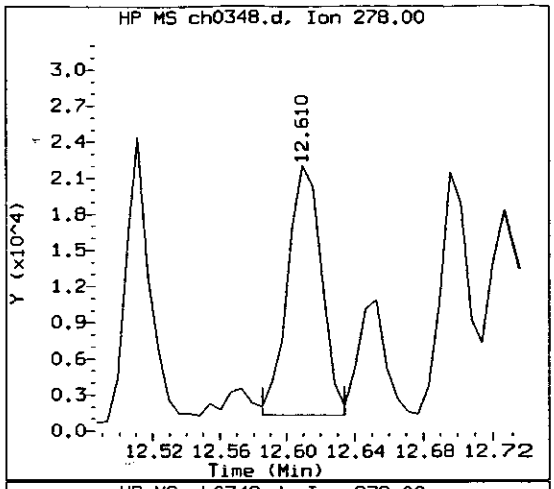
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: [signature] 8/13/07

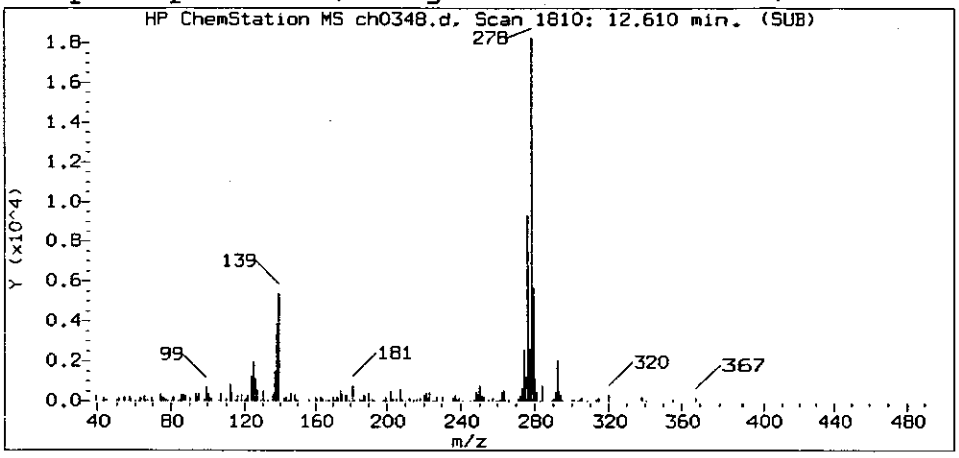
GC/MS audit/management approval: [signature] 8/13/07

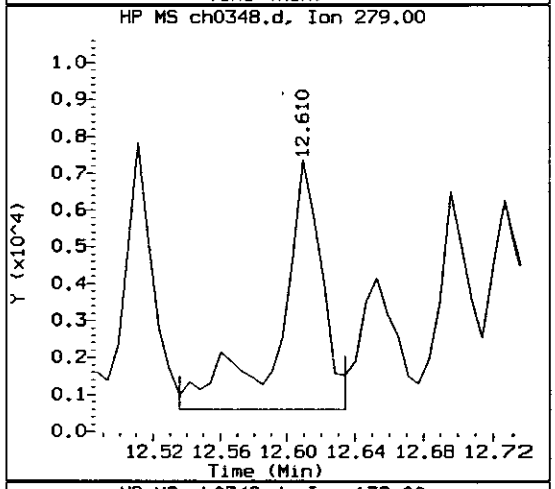
Reference Standard Spectrum for Dibenz(a,h)anthracene



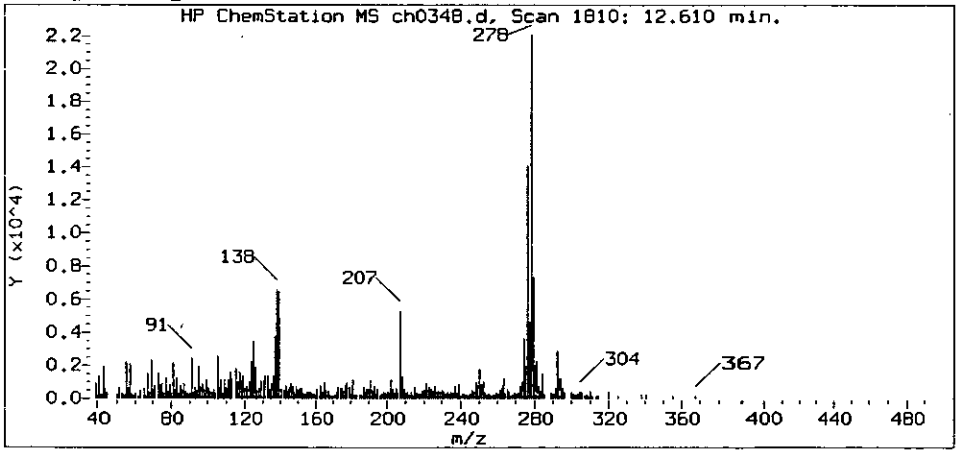


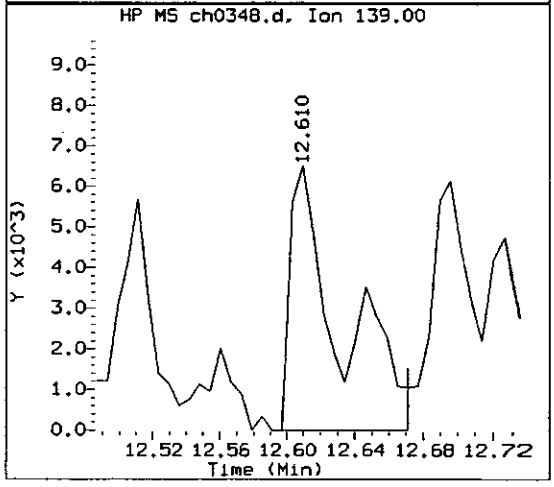
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

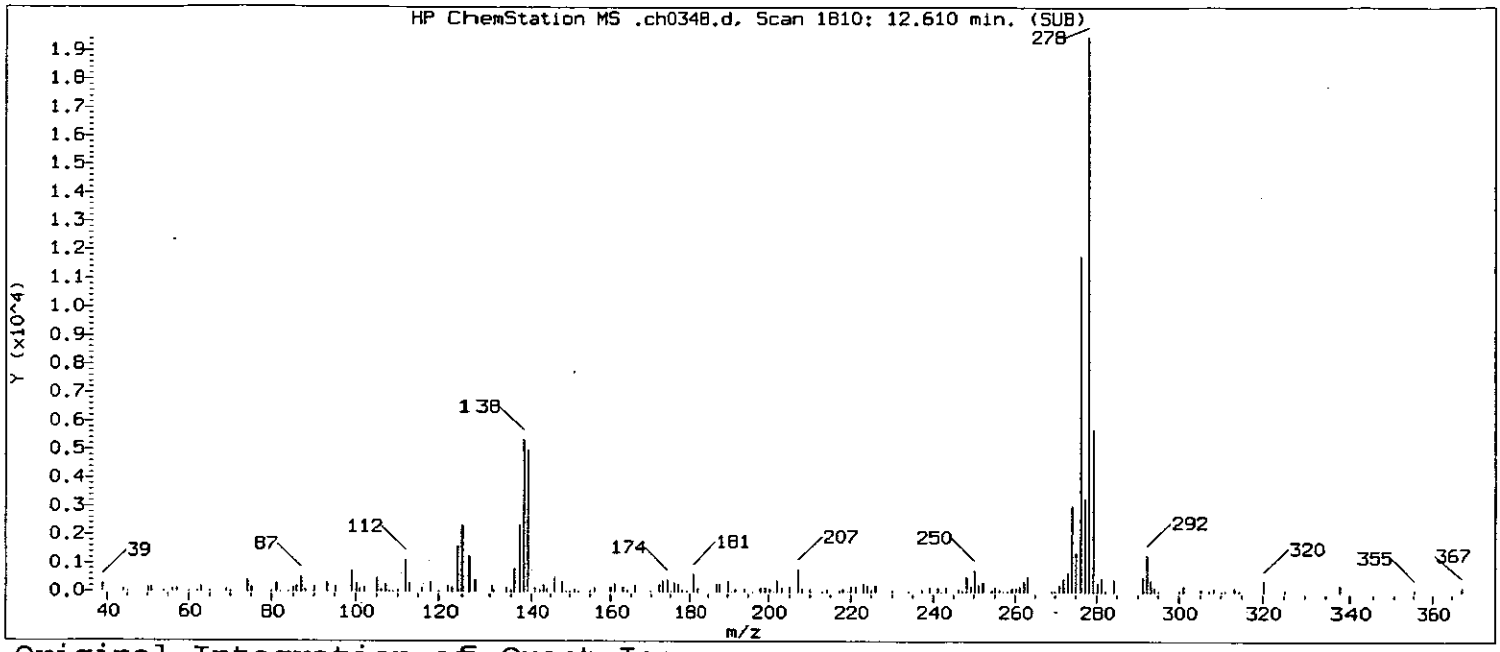
Sample Name: TP218DL

Lab Sample ID: 5118304DL

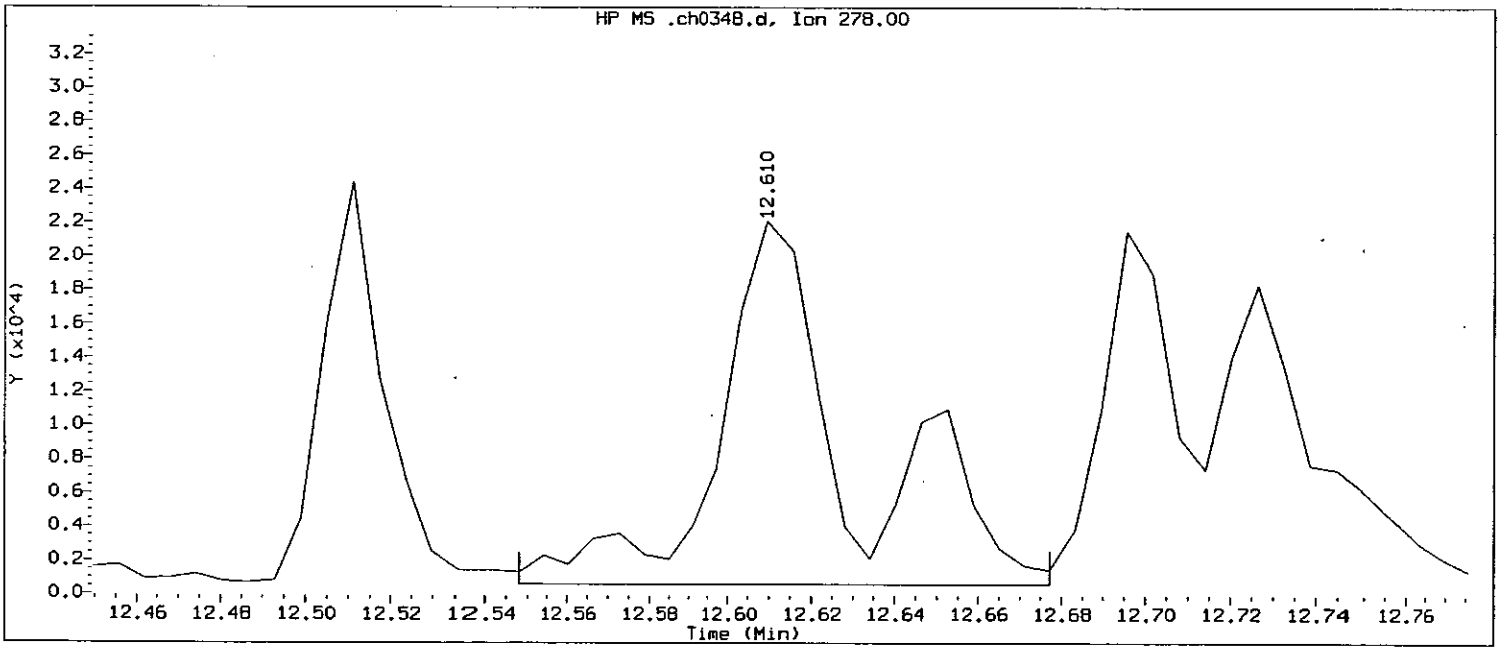
Compound Number	: 169
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1810
Retention Time (minutes)	: 12.610
Quant Ion	: 278.0
Area (flag)	: 28977 M
Concentration (ng/ul)	: 4.5536

8168

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:11 Automation

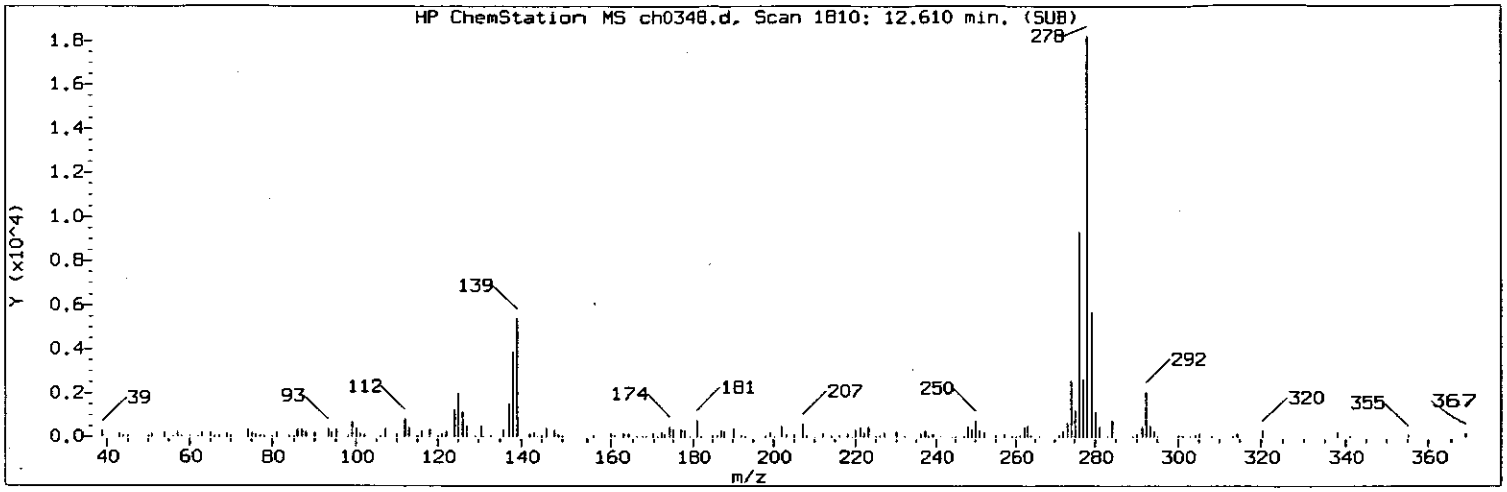
Sample Name: TP218DL Lab Sample ID: 5118304DL

Compound Number	: 169
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1810
Retention Time (minutes)	: 12.610
Quant Ion	: 278
Area	: 47758
Concentration (ng/ul)	: 7.5050
Integration start scan	: 1799 Integration stop scan: 1820
Y at integration start	: 561 Y at integration end: 561

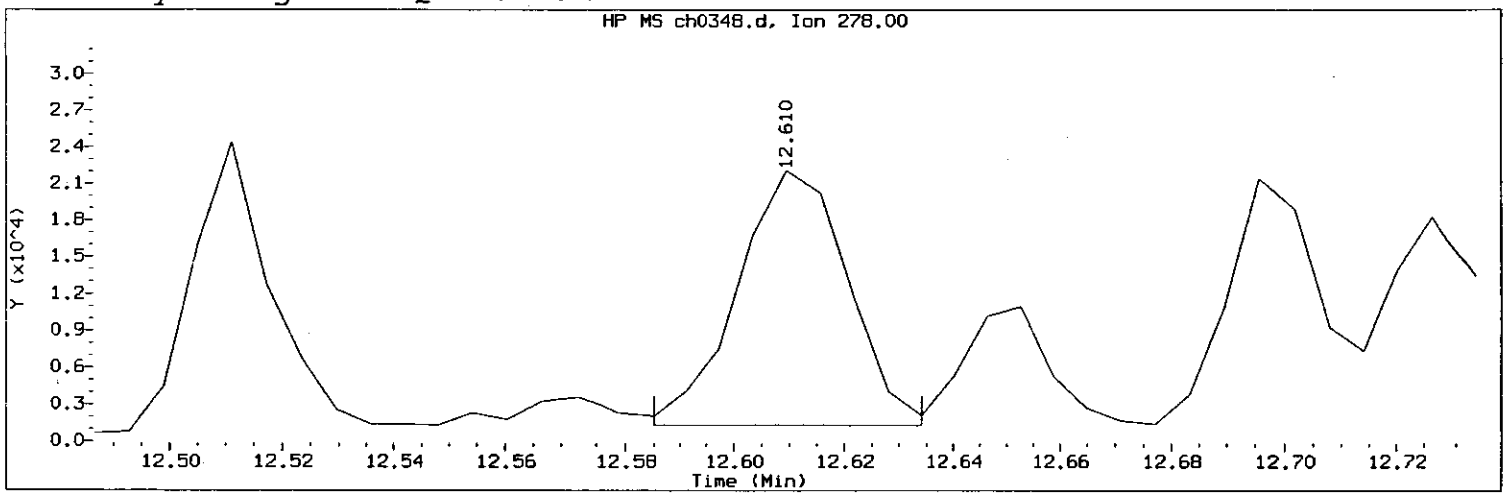
8169

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0348.d, generated on 08/13/2007 at 05:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0348.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 22:55 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL Lab Sample ID: 5118304DL

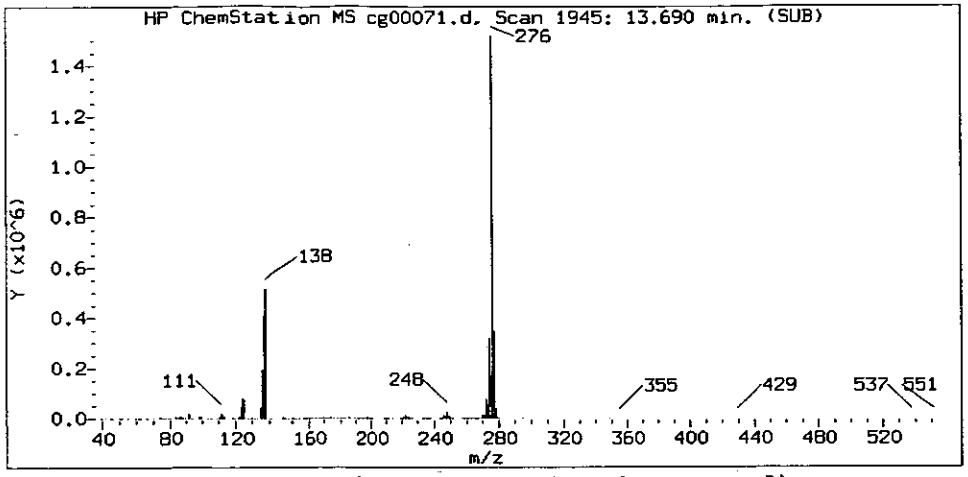
Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1810
Retention Time (minutes): 12.610
Quant Ion : 278
Area (flag) : 28977 M
Concentration (ng/ul) : 4.5536
Integration start scan : 1805 Integration stop scan: 1813
Y at integration start : 1322 Y at integration end: 1322

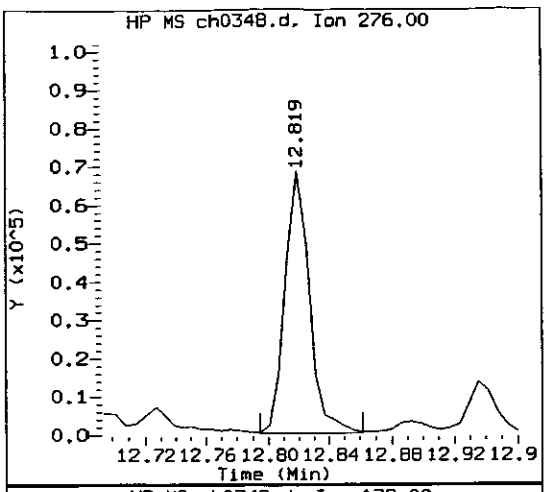
Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8/13/07

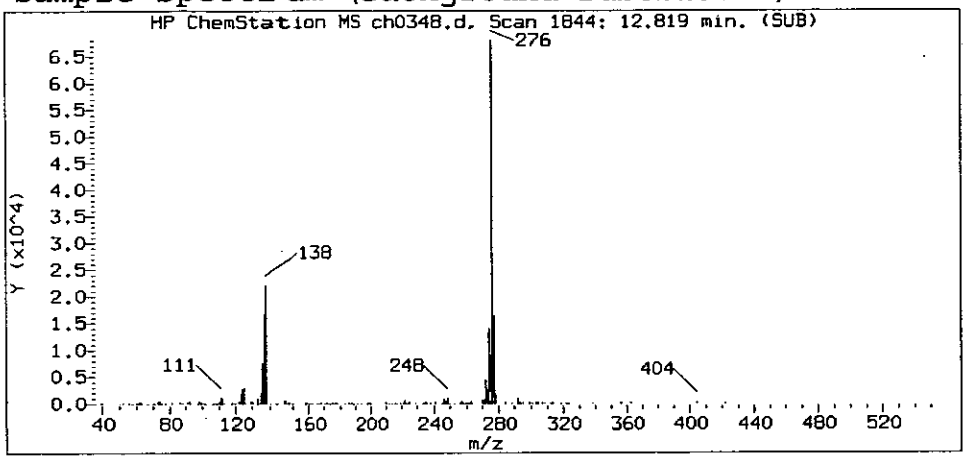
GC/MS audit/management approval: [signature] 8/13/07

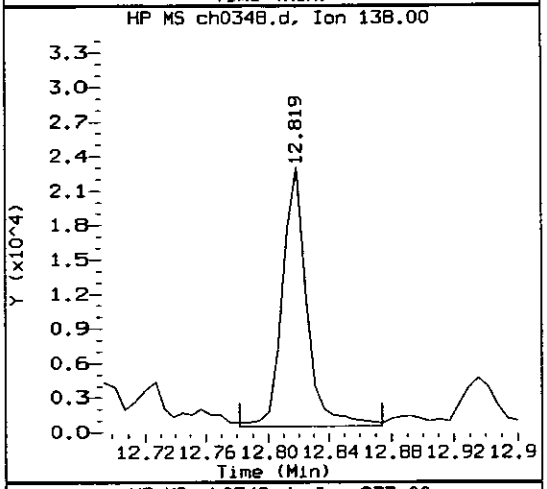
Reference Standard Spectrum for Benzo(g,h,i)perylene



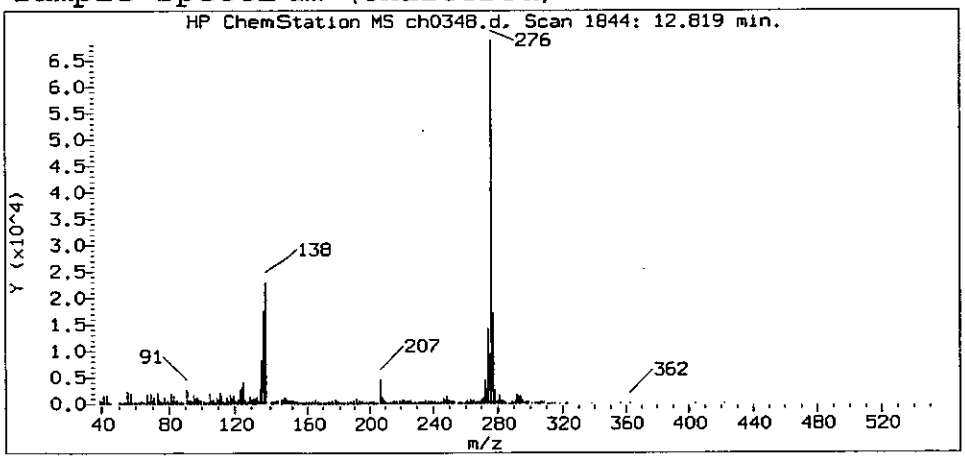


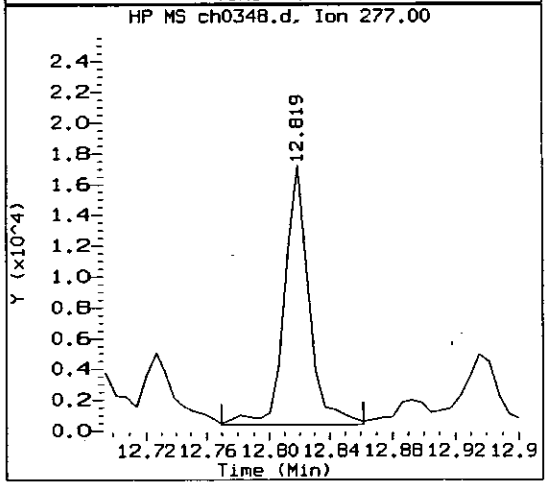
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0348.d
Injection date and time: 12-AUG-2007 22:55

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: TP218DL

Lab Sample ID: 5118304DL

Compound Number : 170
Compound Name : Benzo(g,h,i)perylene
Scan Number : 1844
Retention Time (minutes): 12.819
Quant Ion : 276.0
Area (flag) : 77004
Concentration (ng/ul) : 11.5567

0171

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4T217

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118305

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0305.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 13 dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/09/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ UG/KG	Q
91-20-3	Naphthalene	150	J
208-96-8	Acenaphthylene	330	
83-32-9	Acenaphthene	200	U
86-73-7	Fluorene	200	U
85-01-8	Phenanthrene	43	J
120-12-7	Anthracene	68	J
206-44-0	Fluoranthene	43	J
129-00-0	Pyrene	63	J
56-55-3	Benzo(a)anthracene	84	J
218-01-9	Chrysene	65	J
205-99-2	Benzo(b)fluoranthene	50	J
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenz(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	79	J

8172

4T217

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118305

Data file: /chem/HP10623.i/07aug09a.b/ch0305.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:27 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1) *Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.715(0.000)	526	152.0	77726(-20)	40.00	
46) Naphthalene-d8	5.846(0.000)	710	136.0	348046(-23)	40.00	
82) Acenaphthene-d10	7.316(0.000)	949	164.0	203090(-23)	40.00	
120) Phenanthrene-d10	8.527(0.006)	1146	188.0	345654(-25)	40.00	
149) Chrysene-d12	10.691(-0.006)	1498	240.0	272078(-30)	40.00	
161) Perylene-d12	11.829(-0.006)	1683	264.0	224731(-30)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.225(0.000)	82	347292	102.361	102%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.775(0.000)	172	555830	86.962	87%		55 - 123
138) Terphenyl-d14	(5)	9.855(0.000)	244	535484	95.616	96%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/u
47) Naphthalene	(2)	5.858(0.001)	128	37617	3.959	131.96			1.00
80) Acenaphthylene	(3)	7.199(0.000)	152	78470	8.600	286.66			1.00
83) Acenaphthene	(3)			Below MDL, Do not report					1.00
94) Fluorene	(3)			Below MDL, Do not report					1.00
121) Phenanthrene	(4)	8.545(0.000)	178	10641	1.130	37.66			1.00
124) Anthracene	(4)	8.588(-0.001)	178	17324	1.783	59.43			1.00
134) Fluoranthene	(4)	9.517(-0.001)	202	11846	1.123	37.42			1.00
136) Pyrene	(5)	9.695(0.001)	202	13883	1.633	54.42			1.00
146) Benzo(a)anthracene	(5)	10.679(0.001)	228	16870	2.196	73.19			1.00
150) Chrysene	(5)	10.710(0.001)	228	12878	1.699	56.62			1.00
158) Benzo(b)fluoranthene	(6)	11.540(0.000)	252	9791	1.297	43.24			1.00
159) Benzo(k)fluoranthene	(6)				ND	ND			1.00
160) Benzo(a)pyrene	(6)				ND	ND			1.00
168) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			1.00
169) Dibenz(a,h)anthracene	(6)			Below MDL, Do not report					1.00
170) Benzo(g,h,i)perylene	(6)	12.868(0.001)	276	14417	2.062	68.72			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

8173

4T217

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118305

Data file: /chem/HP10623.i/07aug09a.b/ch0305.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:27 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF) : 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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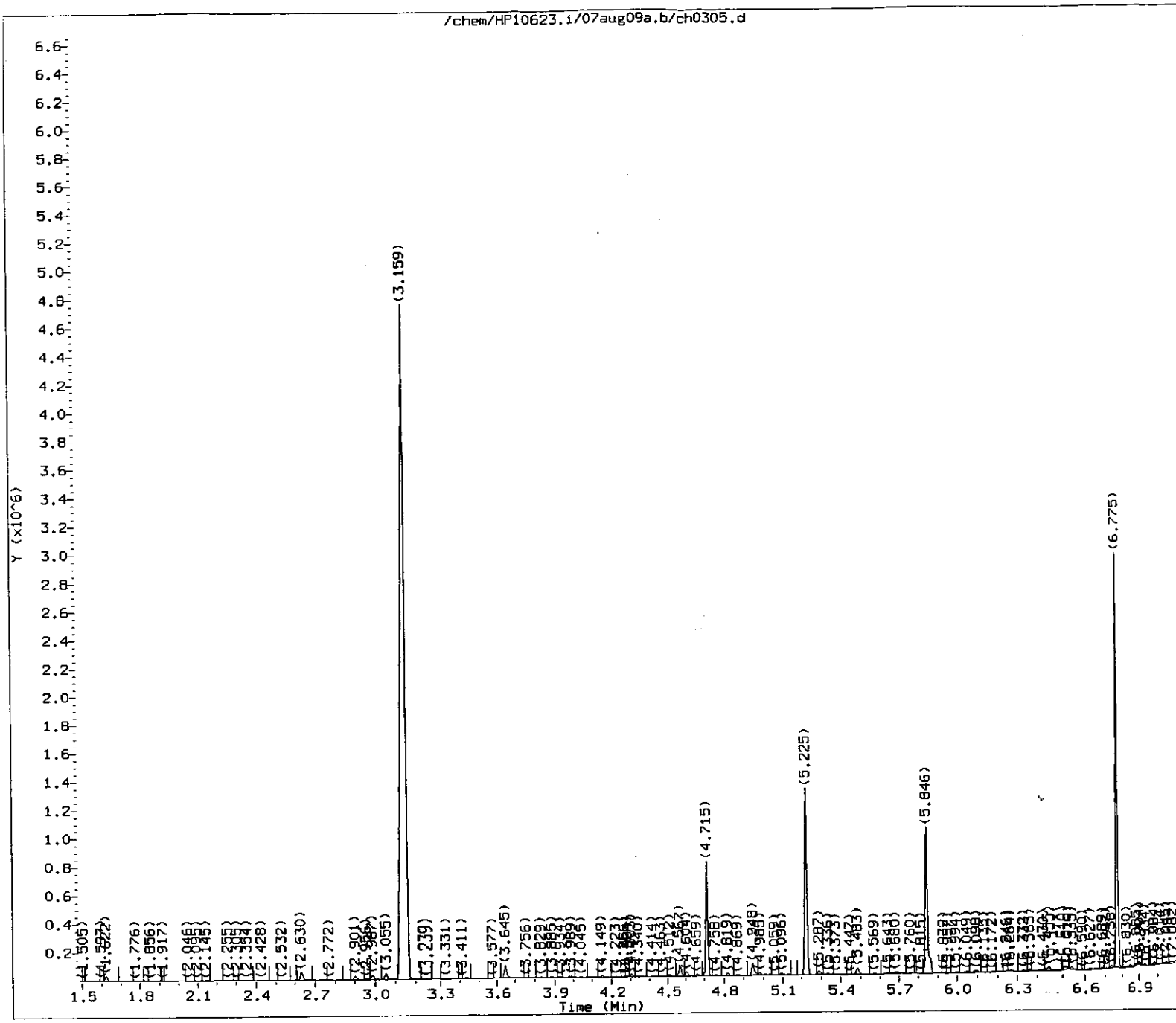
Total number of targets = 16

Comments:

Analyst: 522 Date:
Auditor: Date: 8/13/07



Quant Report

Target Revision 3.5

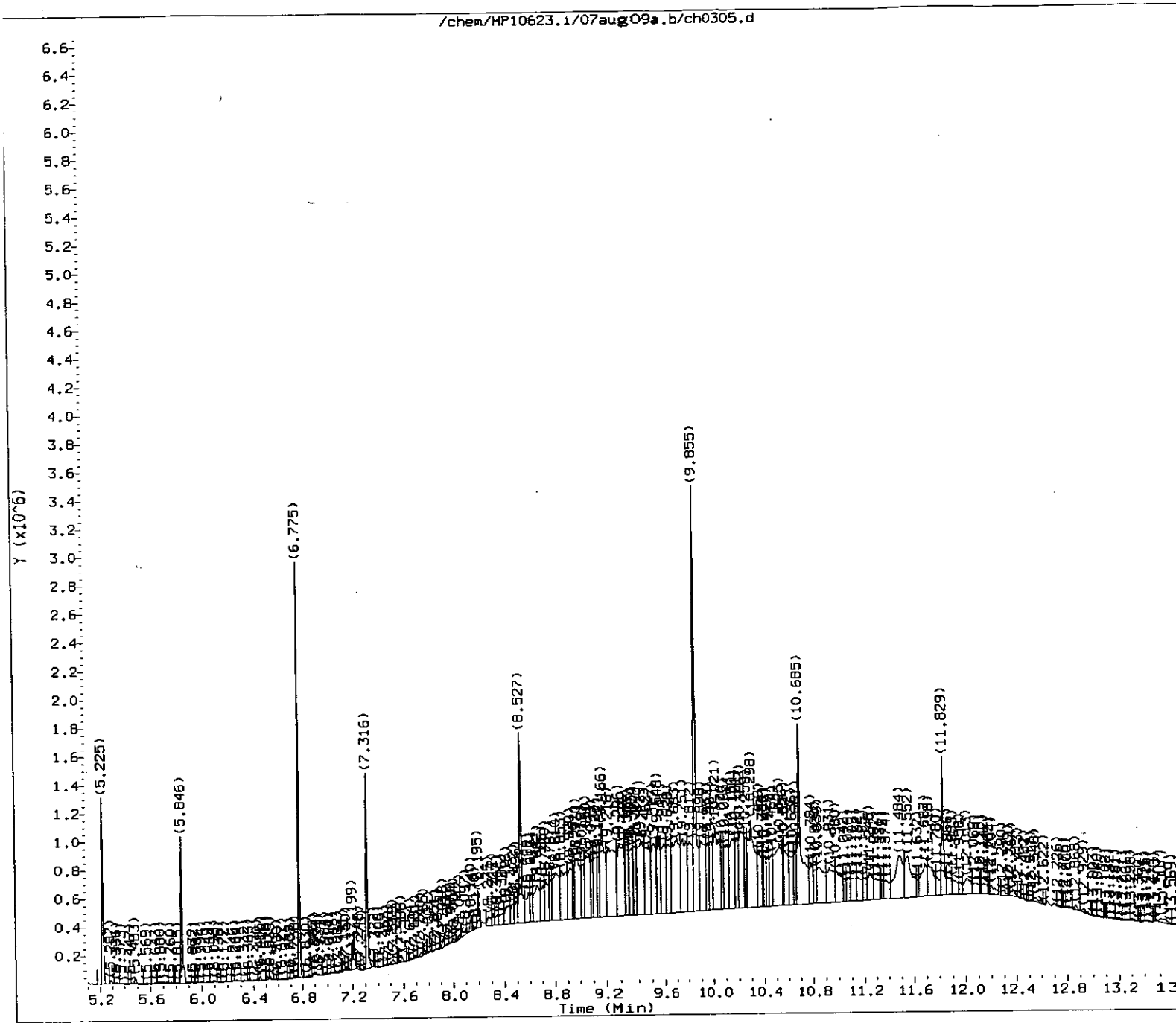
Data File: /chem/HP10623.i/O7aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkgO0522

Sample Name: 4T217 Lab Sample ID: 5118305

0175

8-10-07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

BGM 8-10-07

8176

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

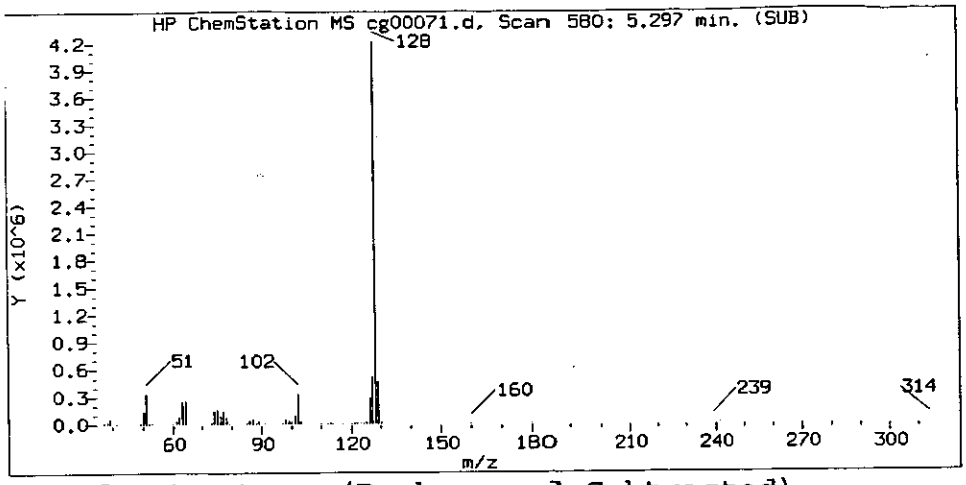
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

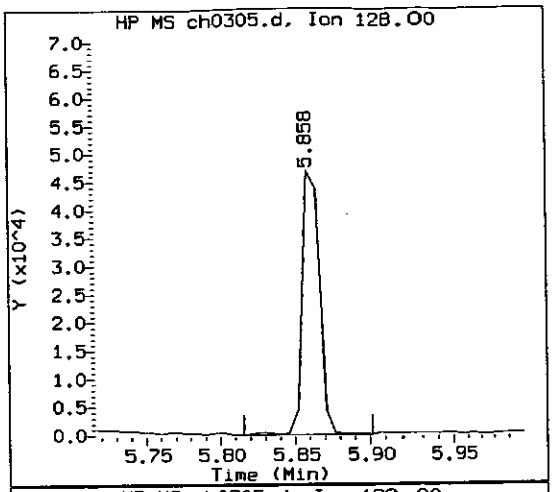
Sample Name: 4T217 Lab Sample ID: 5118305

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.715	152	77726	40.0000
46)	Naphthalene-d8	(2)	5.846	136	348046	40.0000
47)	Naphthalene	(2)	5.858	128	37617	3.9588
80)	Acenaphthylene	(3)	7.199	152	78470	8.5997
82)	Acenaphthene-d10	(3)	7.316	164	203090	40.0000
120)	Phenanthrene-d10	(4)	8.527	188	345654	40.0000
121)	Phenanthrene	(4)	8.545	178	10641	1.1297
124)	Anthracene	(4)	8.588	178	17324	1.7830
134)	Fluoranthene	(4)	9.517	202	11846M	1.1226
136)	Pyrene	(5)	9.695	202	13883	1.6327
146)	Benzo(a)anthracene	(5)	10.679	228	16870M	2.1958
149)	Chrysene-d12	(5)	10.691	240	272078	40.0000
150)	Chrysene	(5)	10.710	228	12878M	1.6986
158)	Benzo(b)fluoranthene	(6)	11.540	252	9791M	1.2973
161)	Perylene-d12	(6)	11.829	264	224731	40.0000
170)	Benzo(g,h,i)perylene	(6)	12.868	276	14417M	2.0616
35)	Nitrobenzene-d5	(2)	5.225	82	347292	102.3611
66)	2-Fluorobiphenyl	(3)	6.775	172	555830	86.9621
138)	Terphenyl-d14	(5)	9.855	244	535484	95.6162

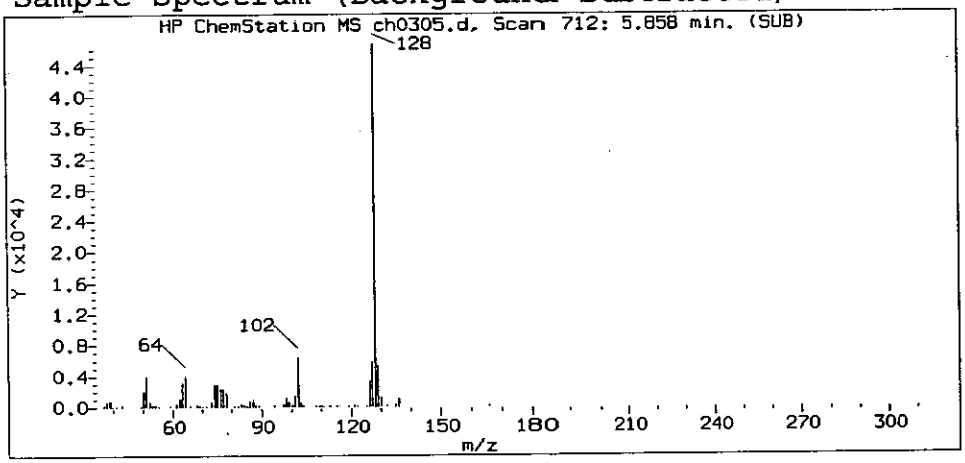
M = Compound was manually integrated. A = User selected an alternate hi

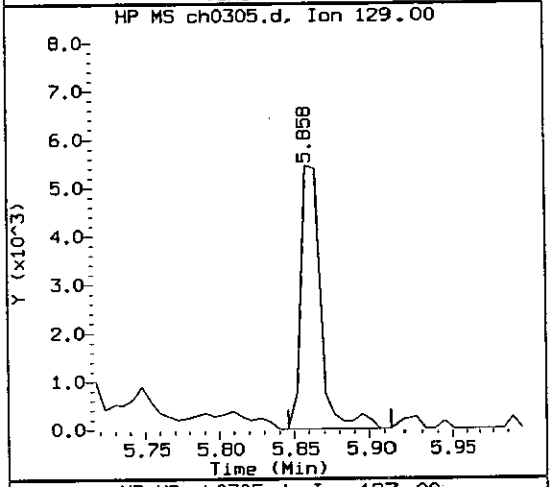
Reference Standard Spectrum for Naphthalene



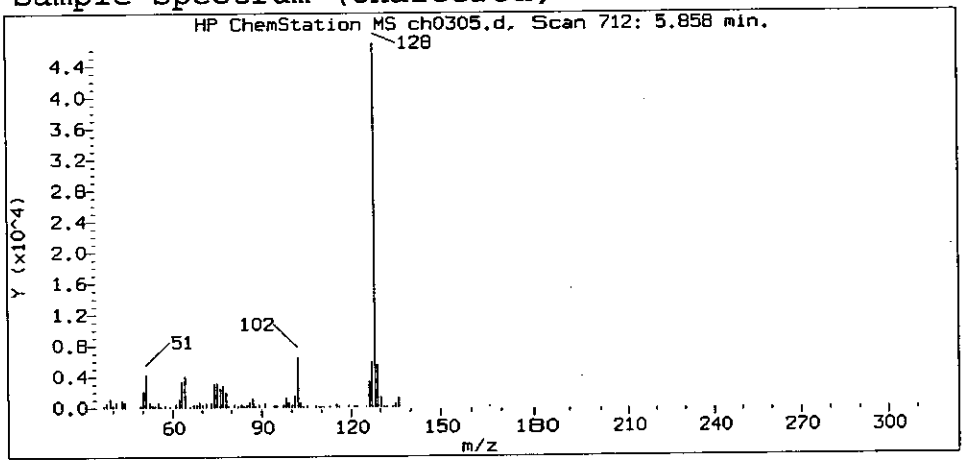


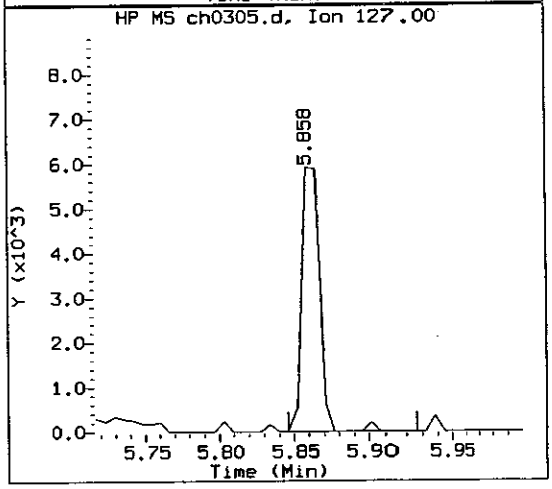
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

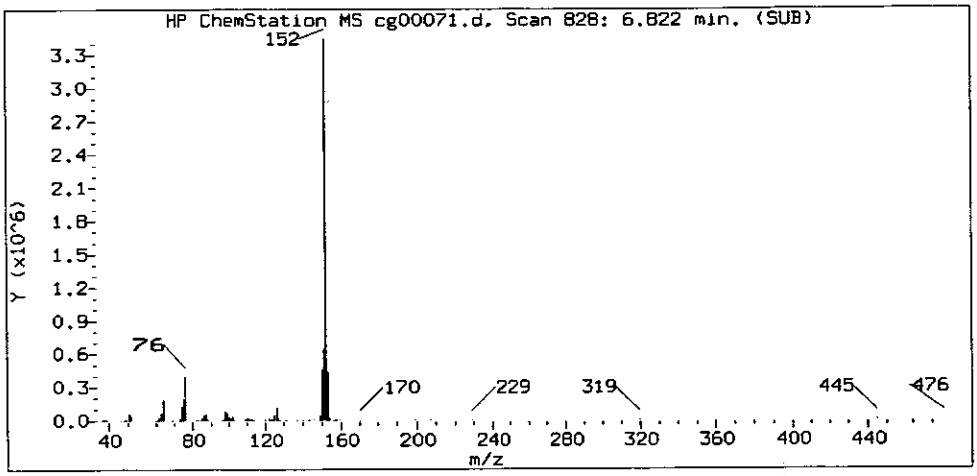
Sample Name: 4T217

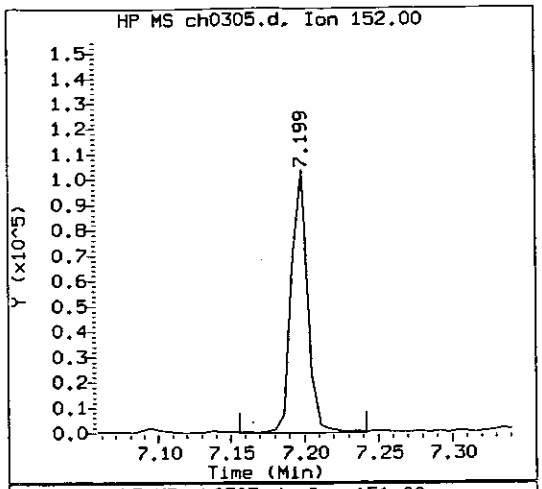
Lab Sample ID: 5118305

Compound Number	:	47
Compound Name	:	Naphthalene
Scan Number	:	712
Retention Time (minutes)	:	5.858
Quant Ion	:	128.0
Area (flag)	:	37617
Concentration (ng/ul)	:	3.9588

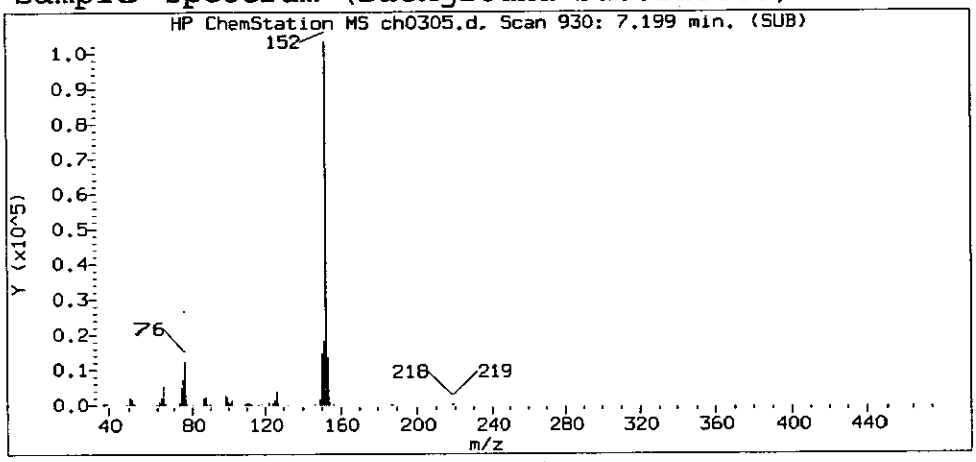
8178

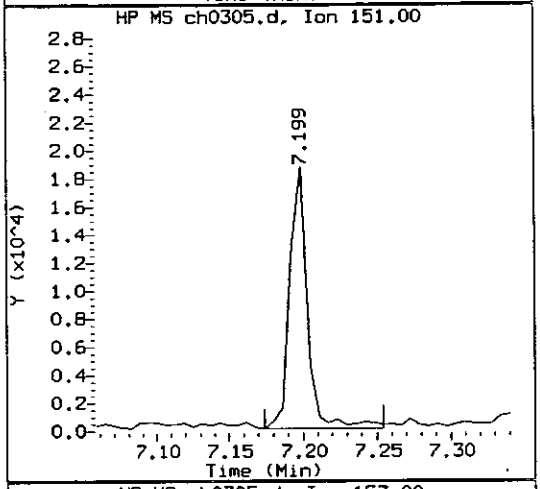
Reference Standard Spectrum for Acenaphthylene



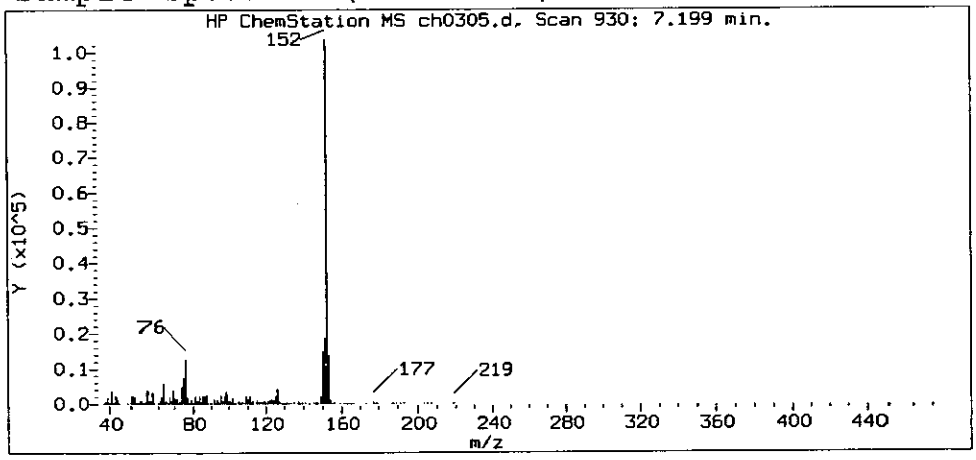


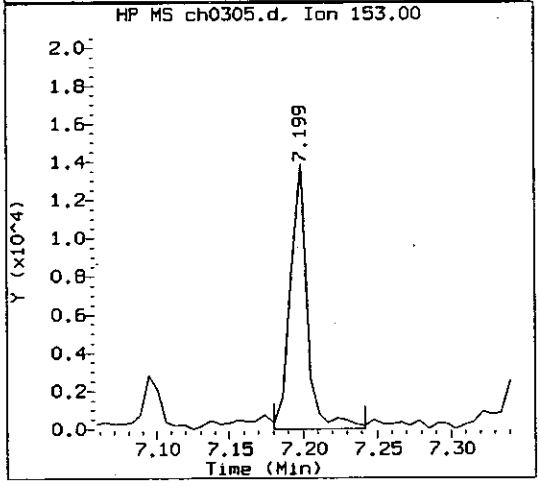
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

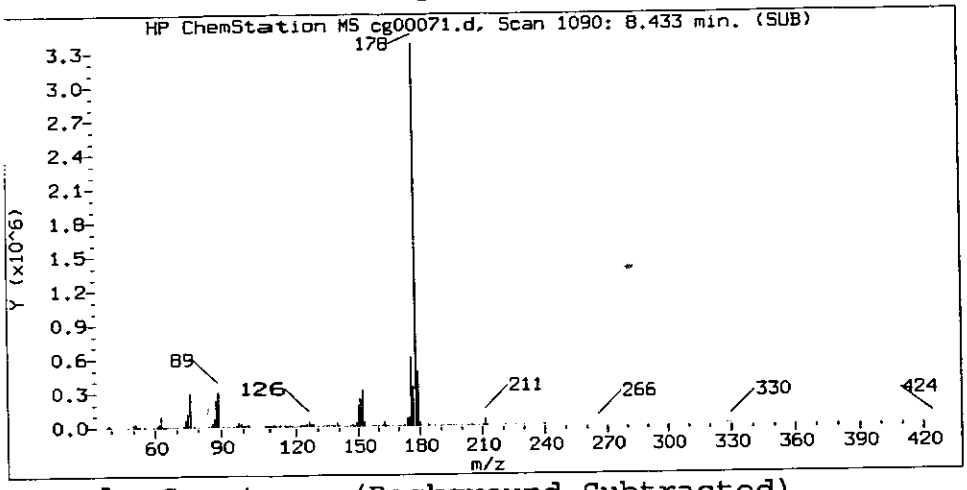
Sample Name: 4T217

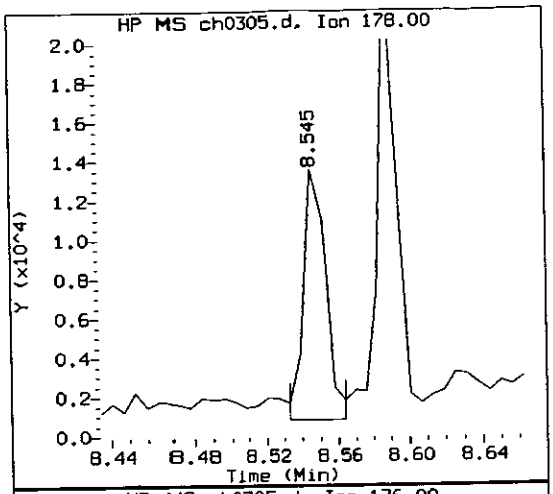
Lab Sample ID: 5118305

Compound Number	: 80
Compound Name	: Acenaphthylene
Scan Number	: 930
Retention Time (minutes)	: 7.199
Quant Ion	: 152.0
Area (flag)	: 78470
Concentration (ng/ul)	: 8.5997

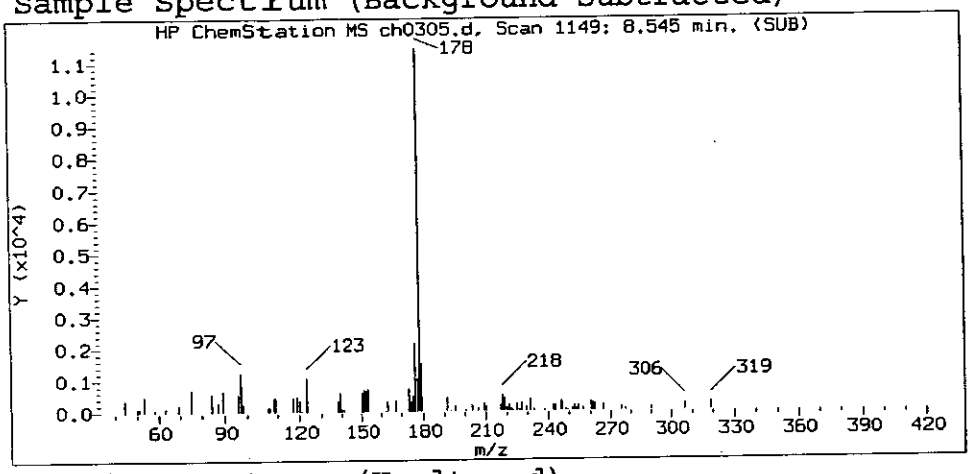
0179

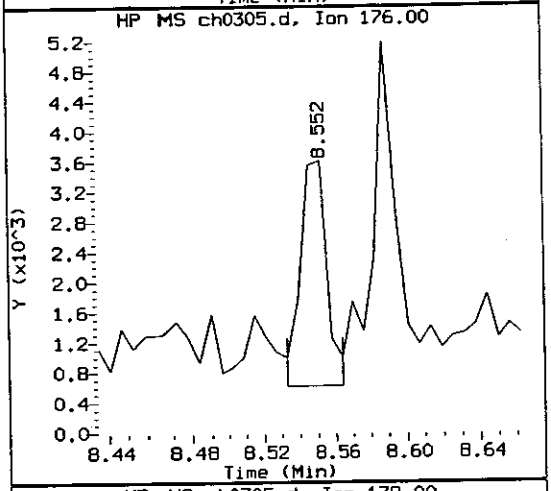
Reference Standard Spectrum for Phenanthrene



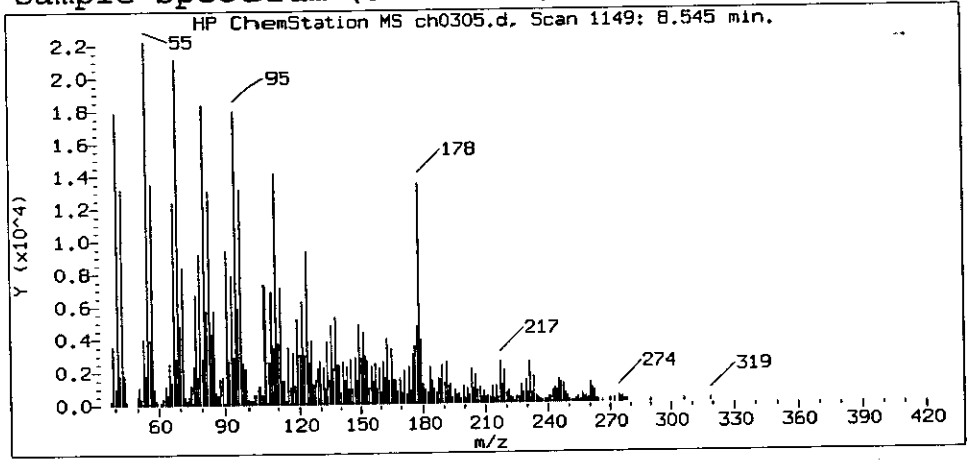


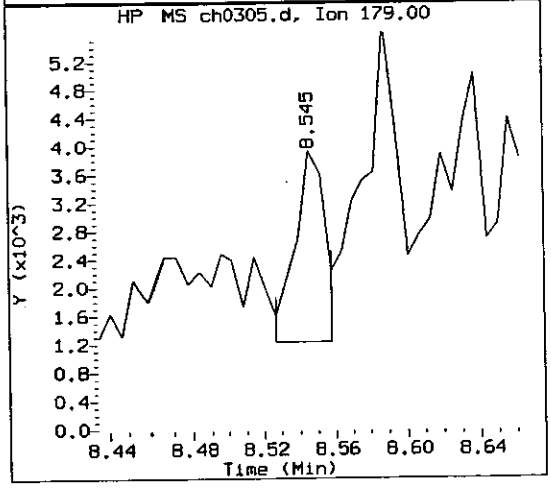
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

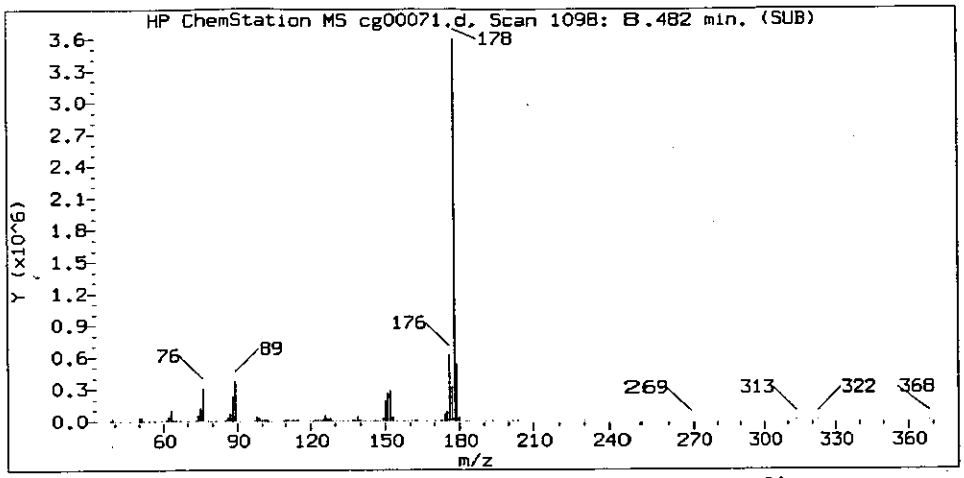
Sample Name: 4T217

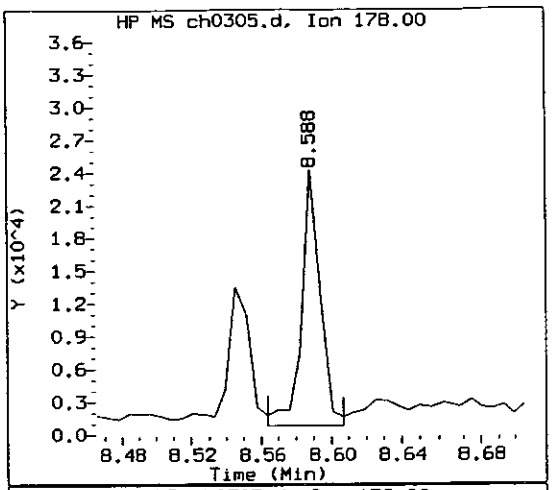
Lab Sample ID: 5118305

Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1149
Retention Time (minutes)	: 8.545
Quant Ion	: 178.0
Area (flag)	: 10641
Concentration (ng/ul)	: 1.1297

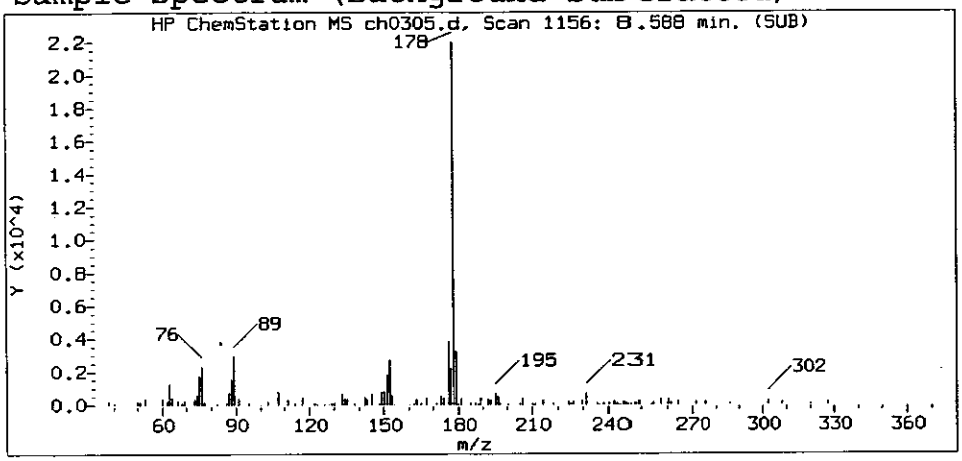
#180

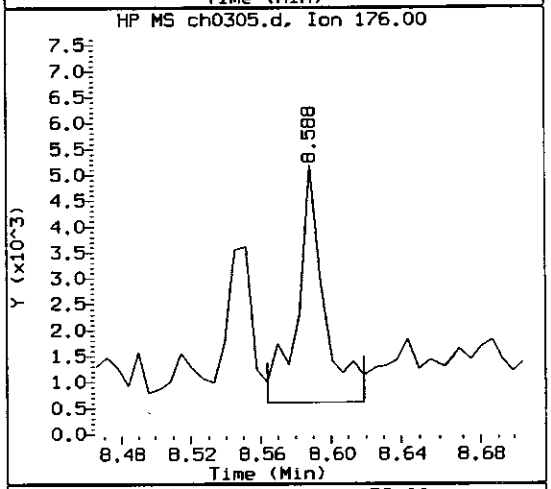
Reference Standard Spectrum for Anthracene



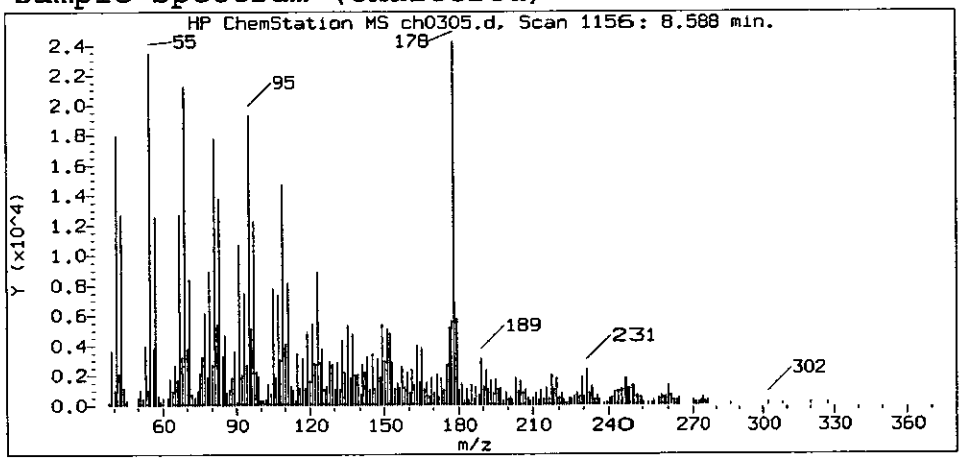


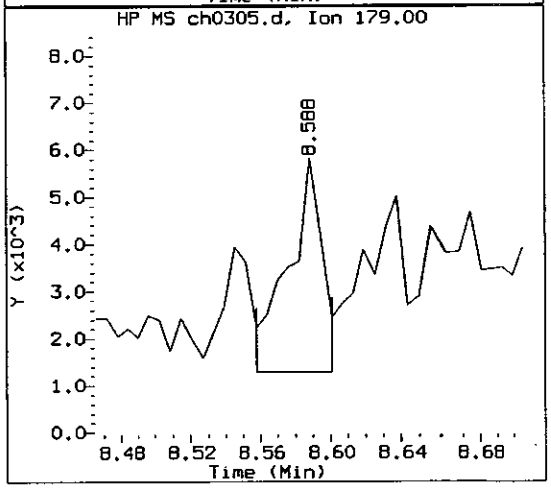
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

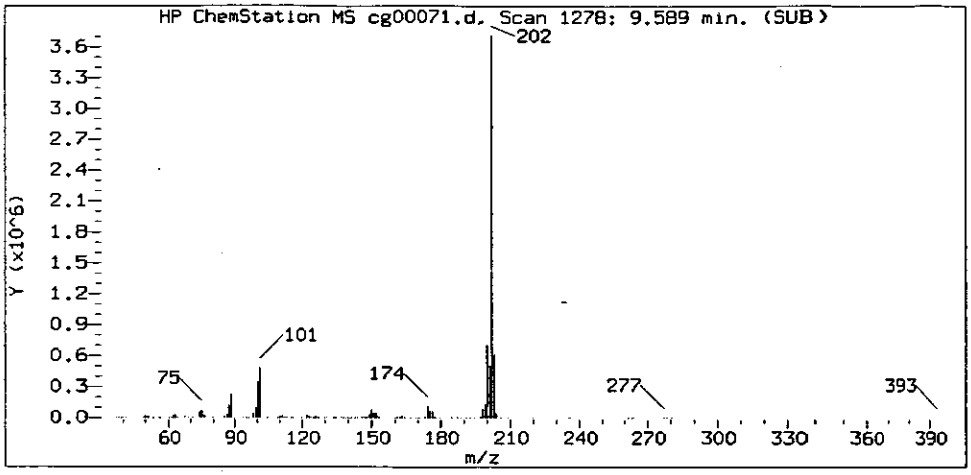
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217

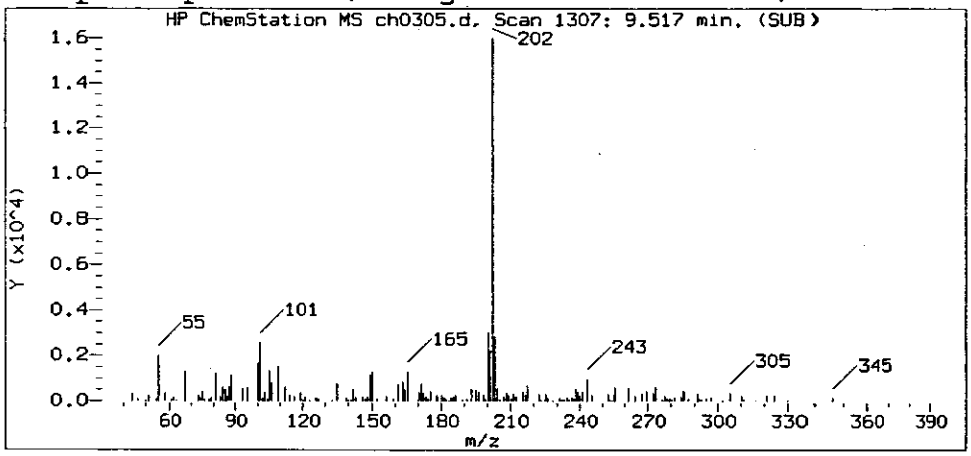
Lab Sample ID: 5118305

Compound Number	: 124
Compound Name	: Anthracene
Scan Number	: 1156
Retention Time (minutes)	: 8.588
Quant Ion	: 178.0
Area (flag)	: 17324
Concentration (ng/ul)	: 1.7830

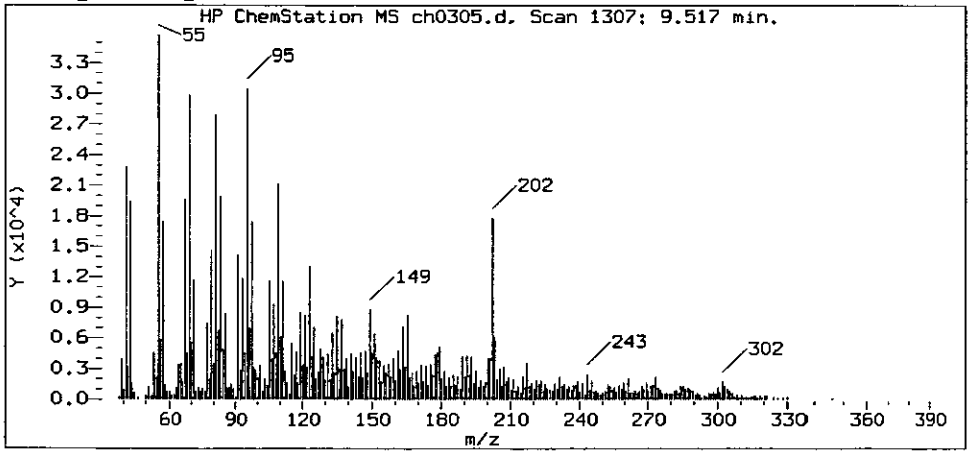
Reference Standard Spectrum for Fluoranthene

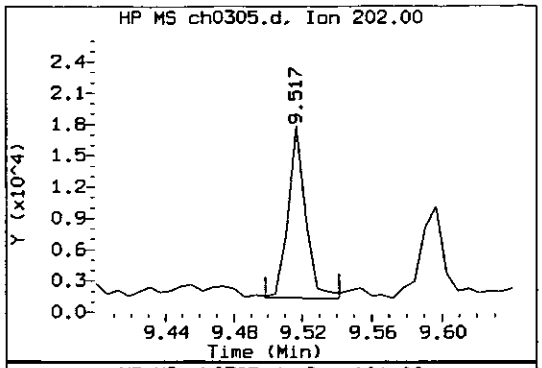


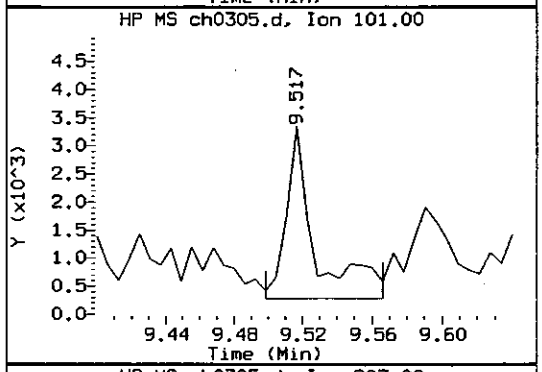
Sample Spectrum (Background Subtracted)

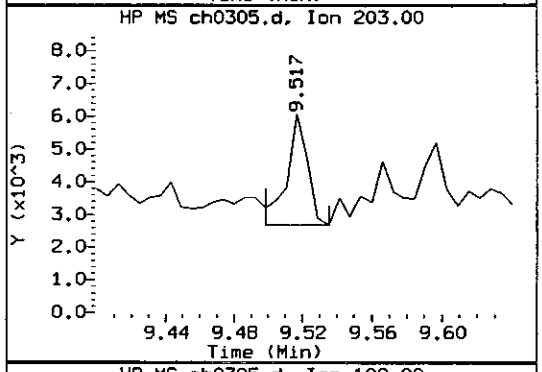


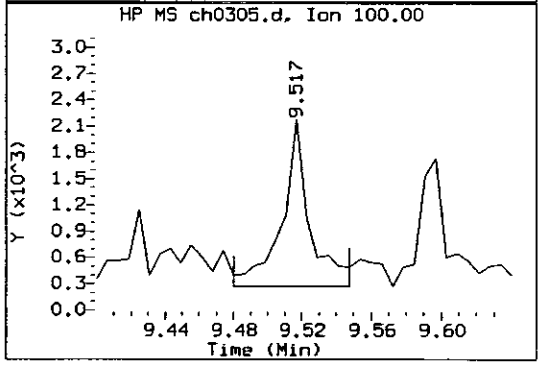
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

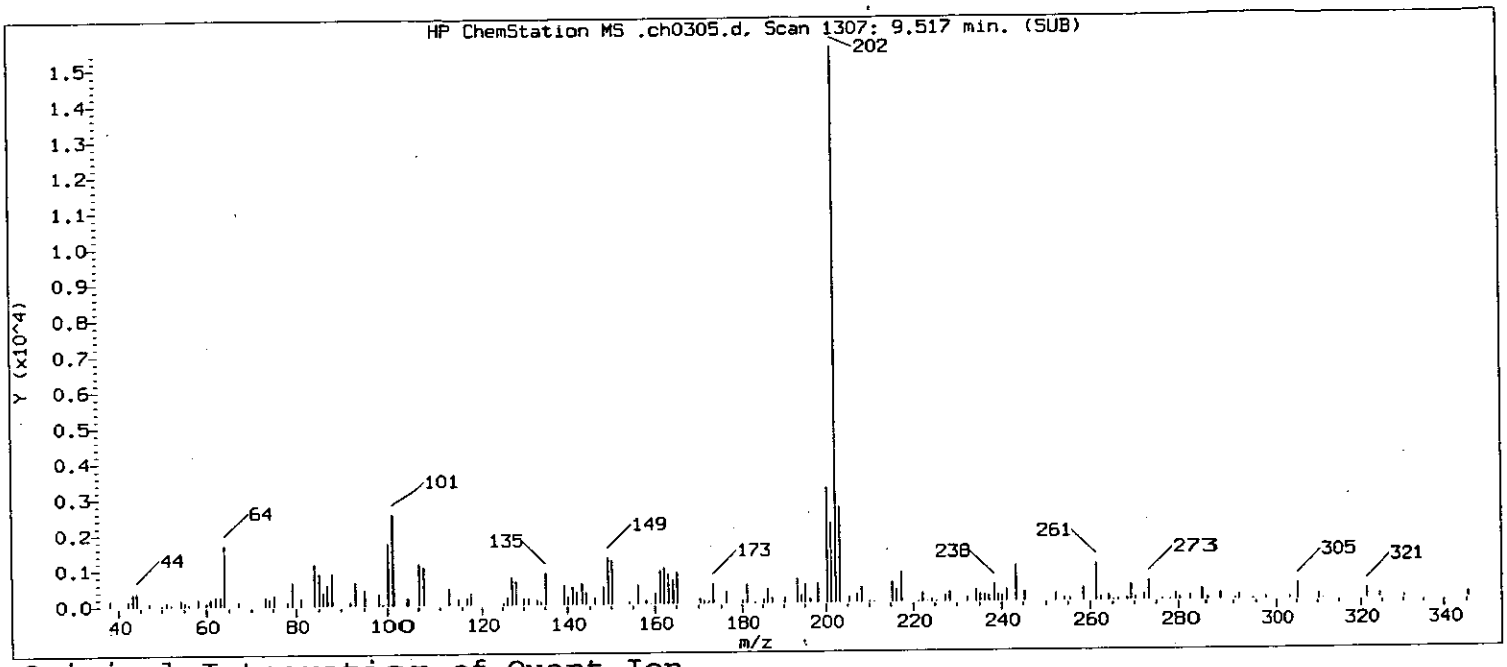
Sample Name: 4T217

Lab Sample ID: 5118305

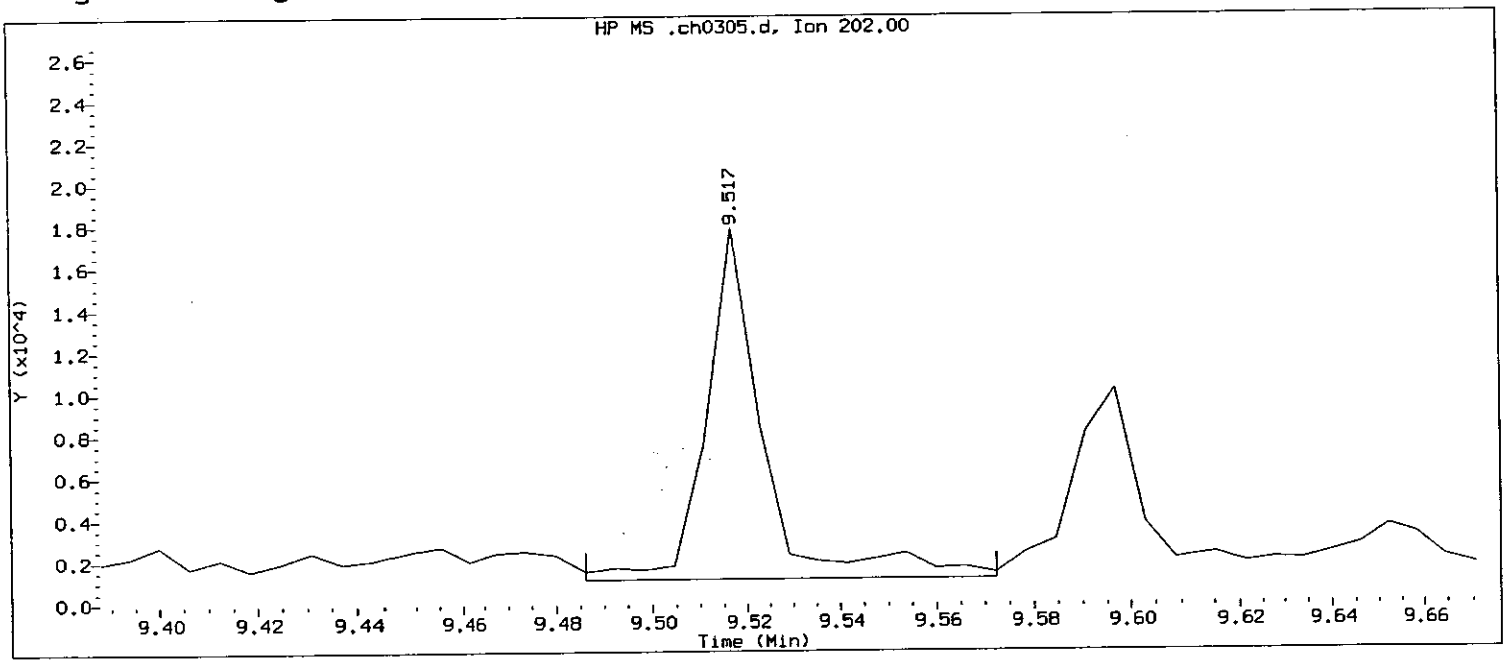
Compound Number	: 134
Compound Name	: Fluoranthene
Scan Number	: 1307
Retention Time (minutes)	: 9.517
Quant Ion	: 202.0
Area (flag)	: 11846 M
Concentration (ng/ul)	: 1.1226

6182

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:42 Automation

Sample Name: 4T217 Lab Sample ID: 5118305

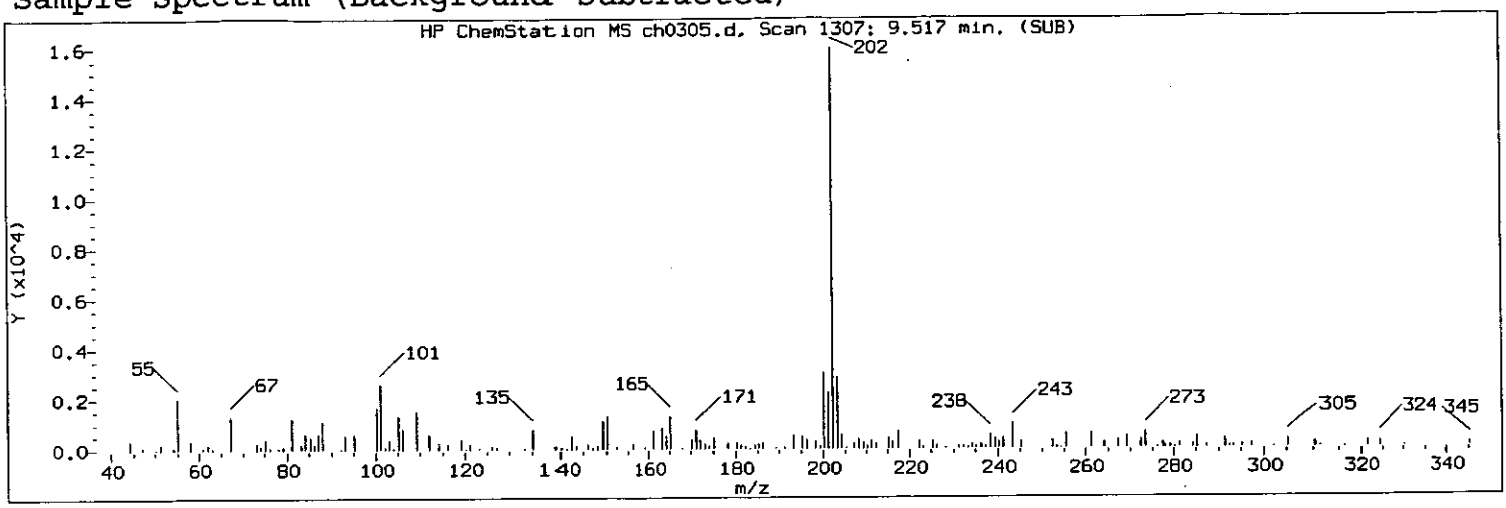
Compound Number	:	134
Compound Name	:	Fluoranthene
Scan Number	:	1307
Retention Time (minutes)	:	9.517
Quant Ion	:	202
Area	:	14162
Concentration (ng/ul)	:	1.3420
Integration start scan	:	1301
Y at integration start	:	1106

Integration stop scan: 1315
Y at integration end: 1106

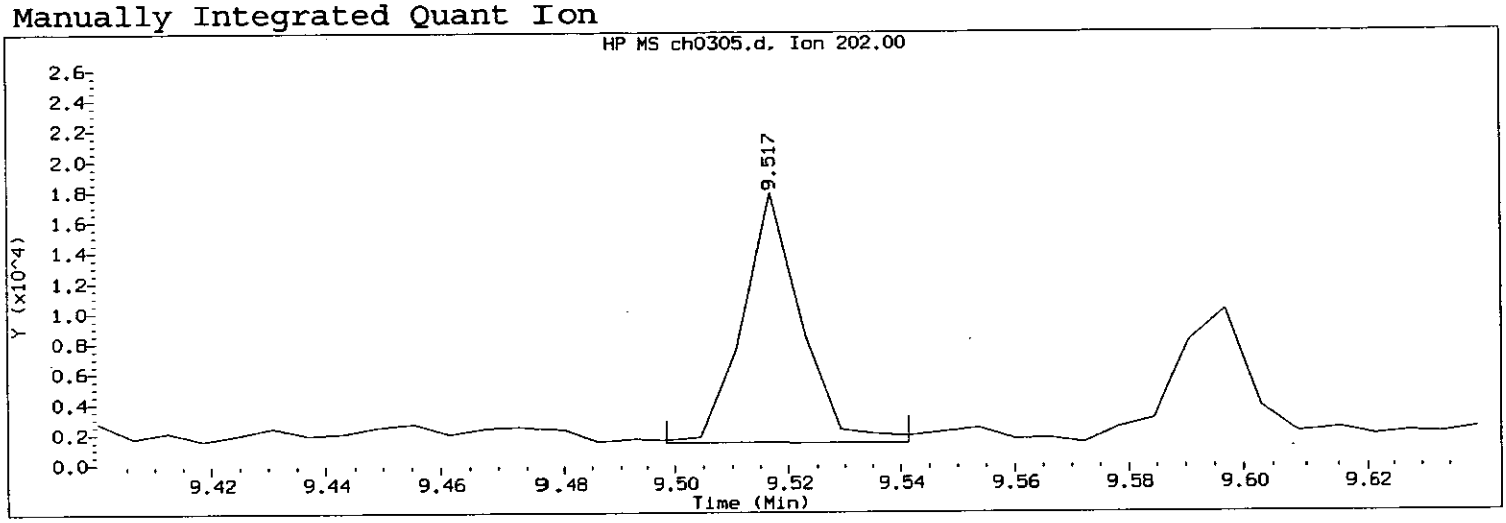
8183

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0305.d, generated on 08/10/2007 at 04:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623 .i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

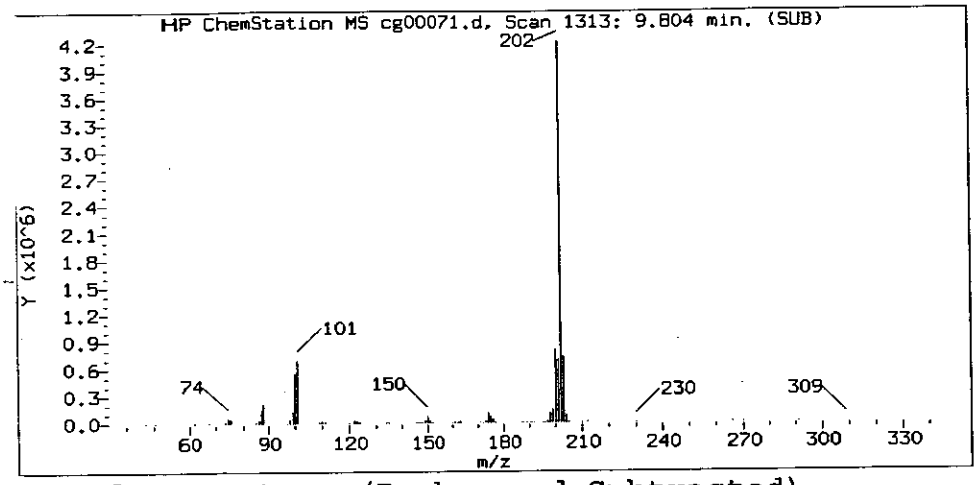
Compound Number	:	134
Compound Name	:	Fluoranthene
Scan Number	:	1307
Retention Time (minutes)	:	9.517
Quant Ion	:	202
Area (flag)	:	11846 M
Concentration (ng/ul)	:	1.1226
Integration start scan	:	1303 Integration stop scan: 1310
Y at integration start	:	1393 Y at integration end: 1365

Reason for manual integration (circle one): missed peak improper integratio

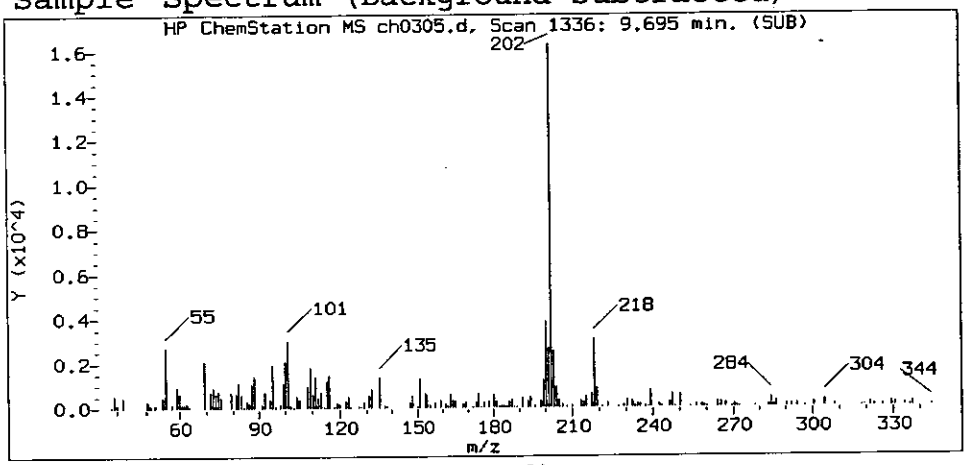
Analyst responsible for change: [signature] 8/10/07

GC/MS audit/management approval: [signature] 8/13/07

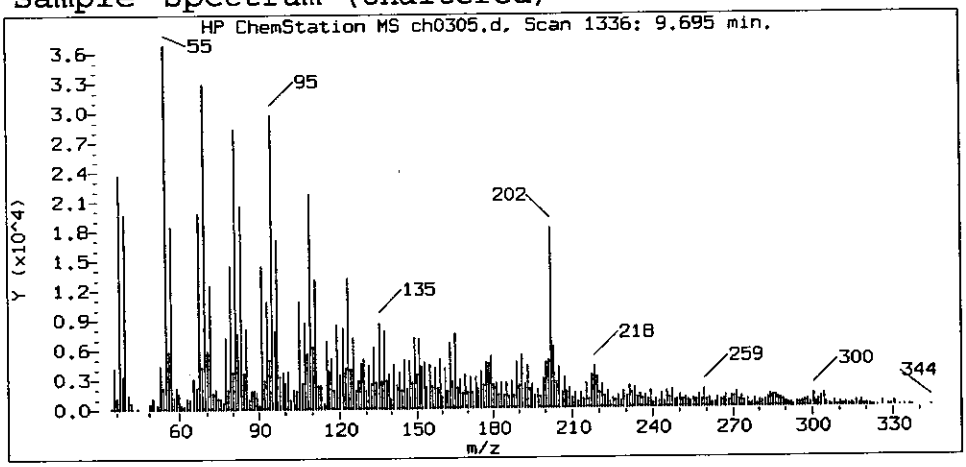
Reference Standard Spectrum for Pyrene

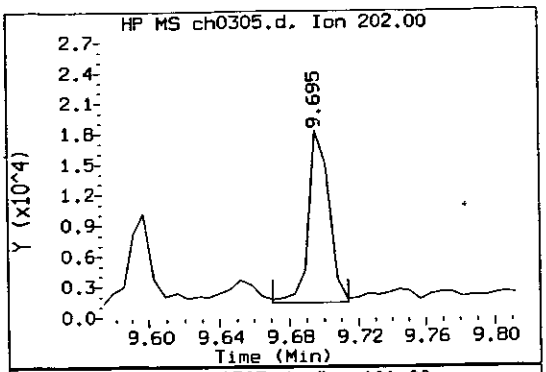


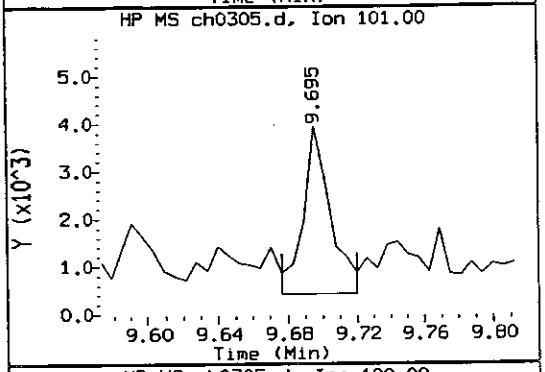
Sample Spectrum (Background Subtracted)

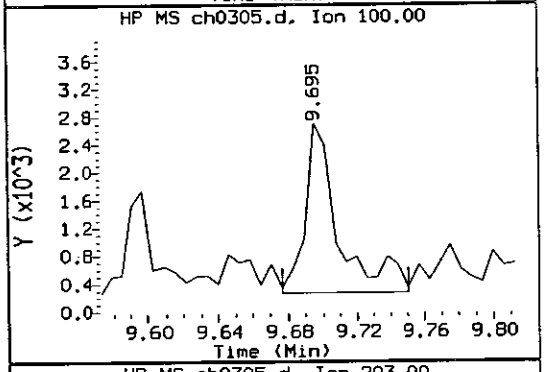


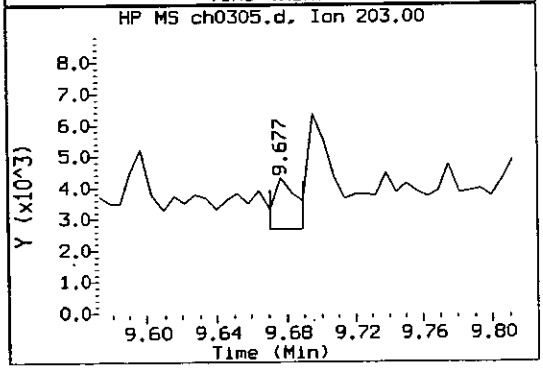
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

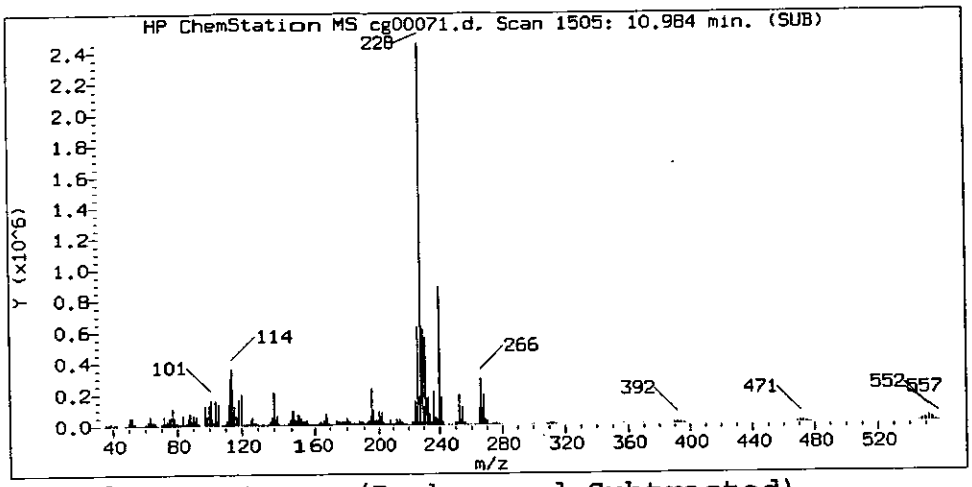
Sample Name: 4T217

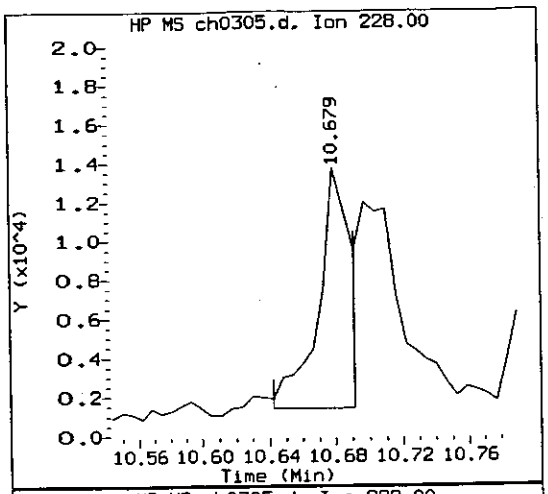
Lab Sample ID: 5118305

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1336
Retention Time (minutes)	: 9.695
Quant Ion	: 202.0
Area (flag)	: 13883
Concentration (ng/ul)	: 1.6327

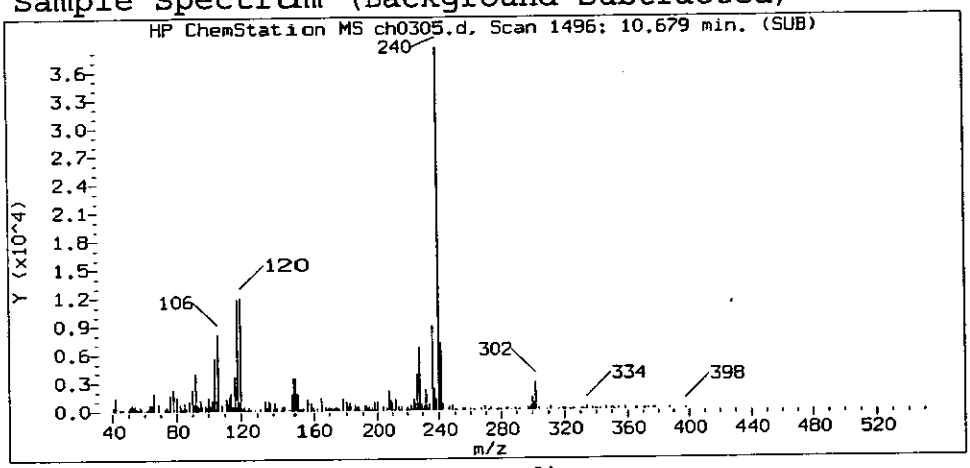
0195

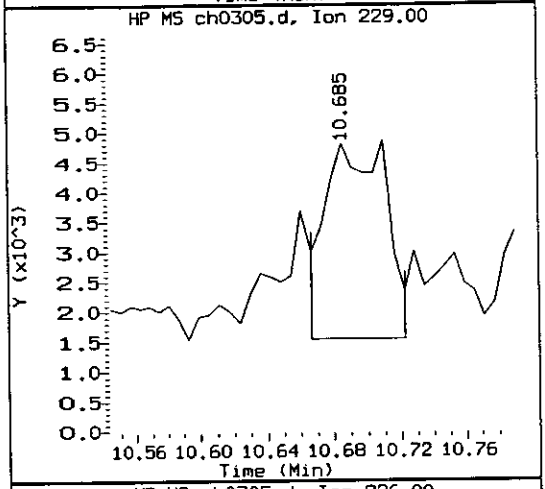
Reference Standard Spectrum for Benzo(a)anthracene



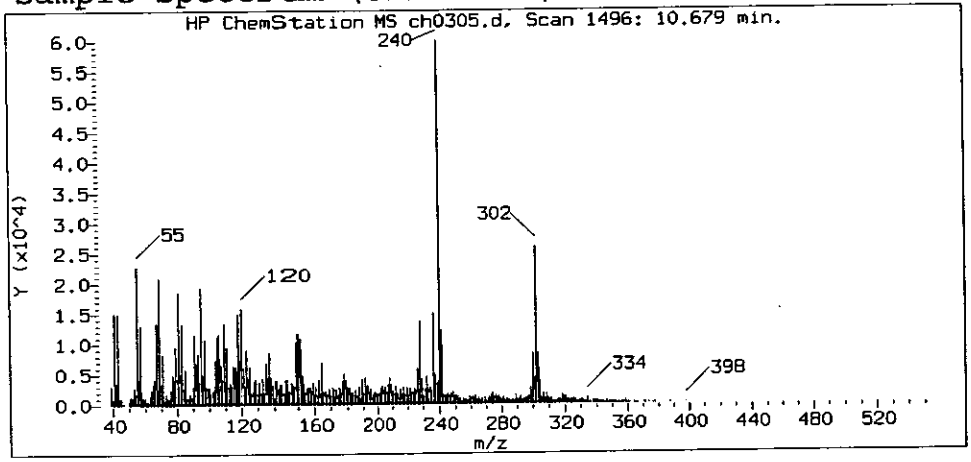


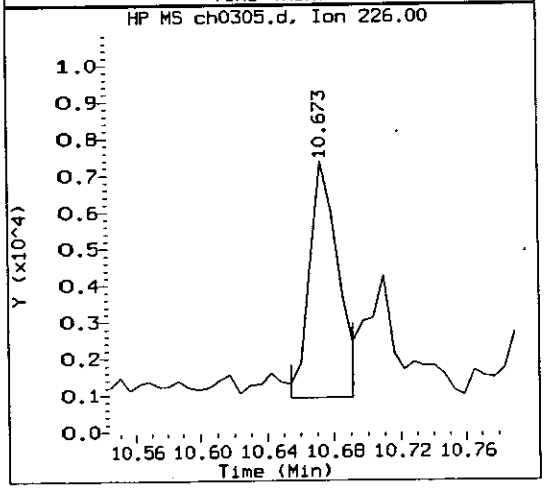
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

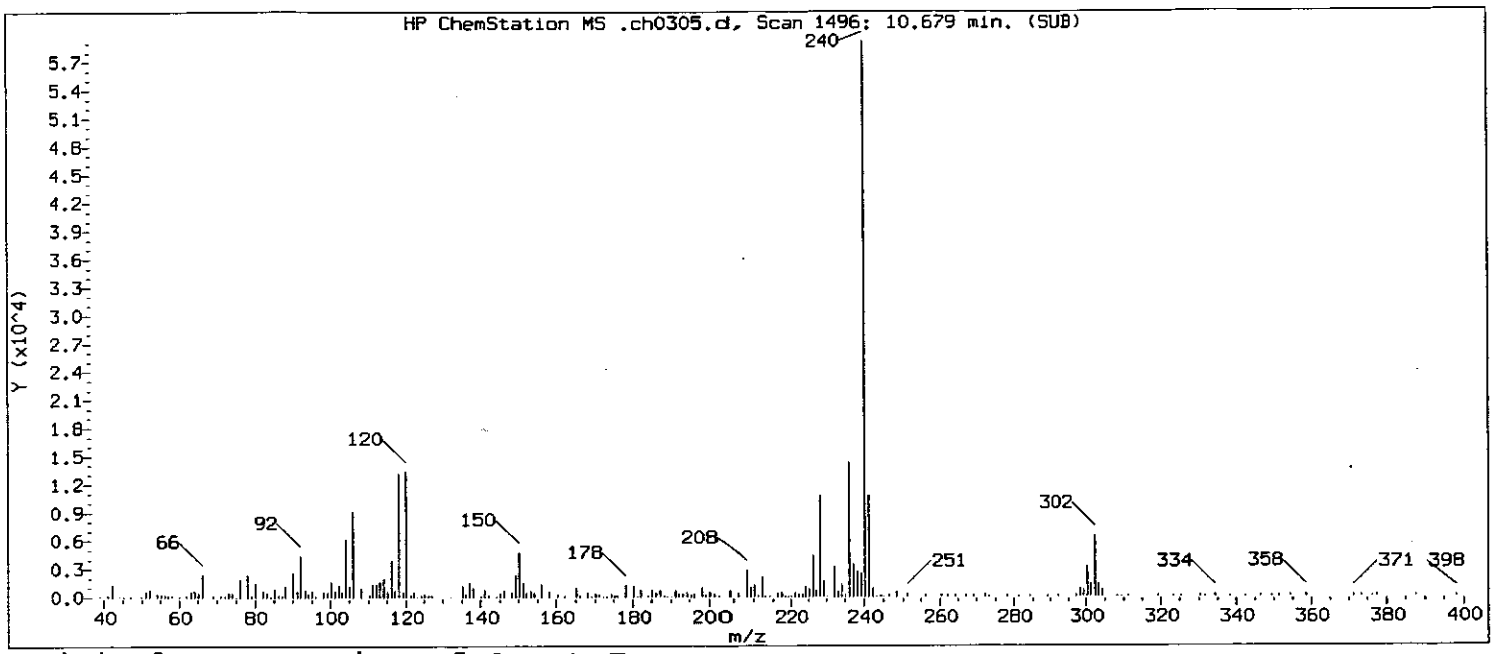
Sample Name: 4T217

Lab Sample ID: 5118305

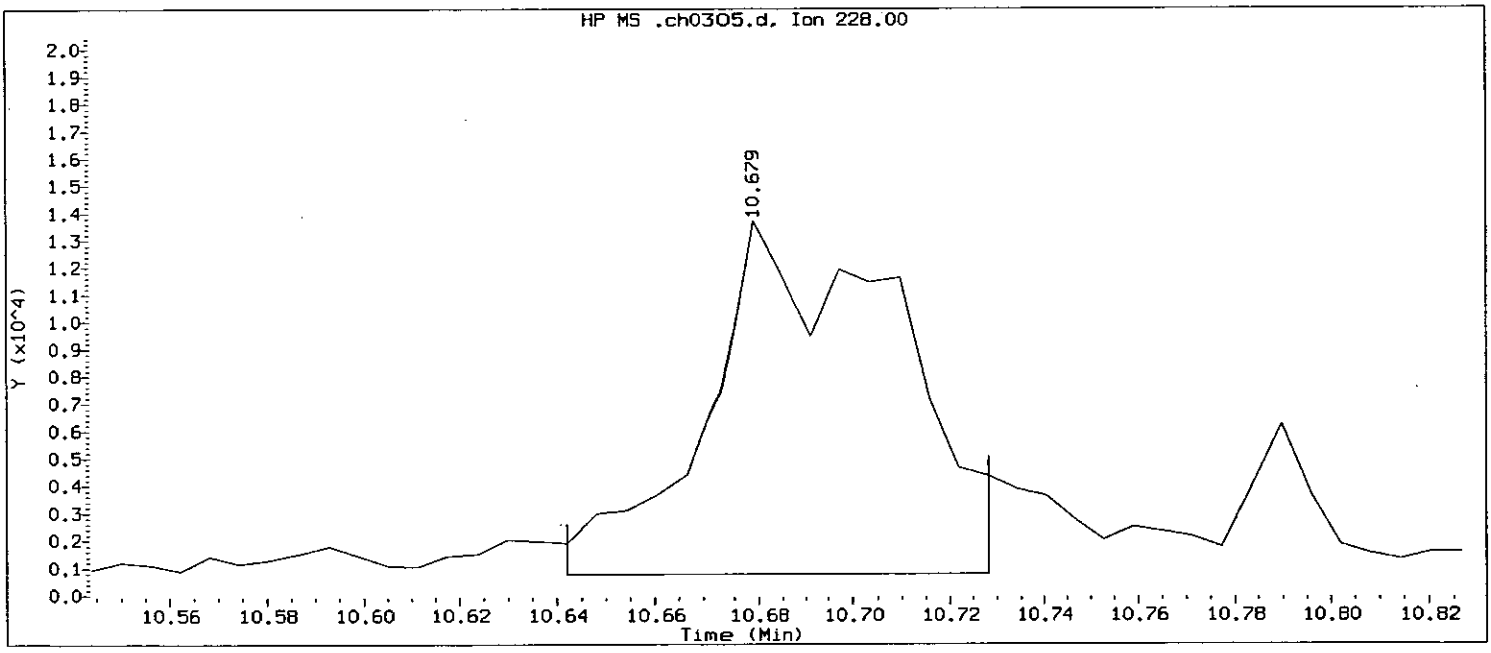
Compound Number	:	146
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1496
Retention Time (minutes)	:	10.679
Quant Ion	:	228.0
Area (flag)	:	16870 M
Concentration (ng/ul)	:	2.1958

8186

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:42 Automation

Sample Name: 4T217 Lab Sample ID: 5118305

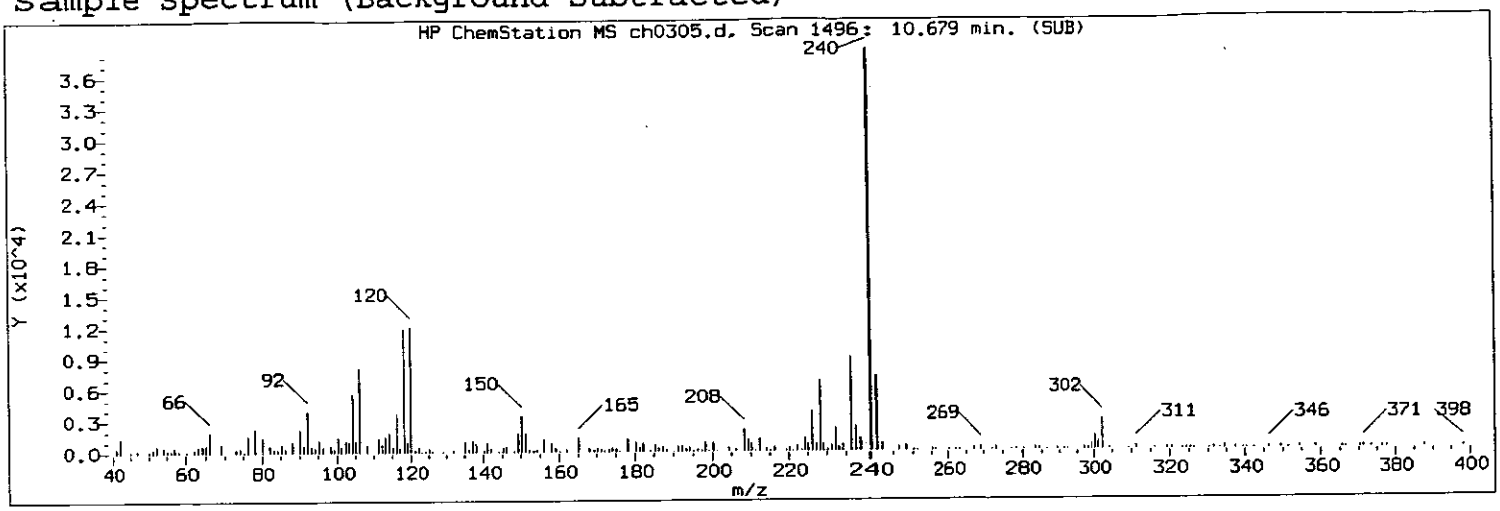
Compound Number : 146
Compound Name : Benzo(a)anthracene
Scan Number : 1496
Retention Time (minutes): 10.679
Quant Ion : 228
Area : 35289
Concentration (ng/ul) : 4.5931
Integration start scan : 1489 Integration stop scan: 1503
Y at integration start : 774 Y at integration end: 774

BCarr 8-10-07

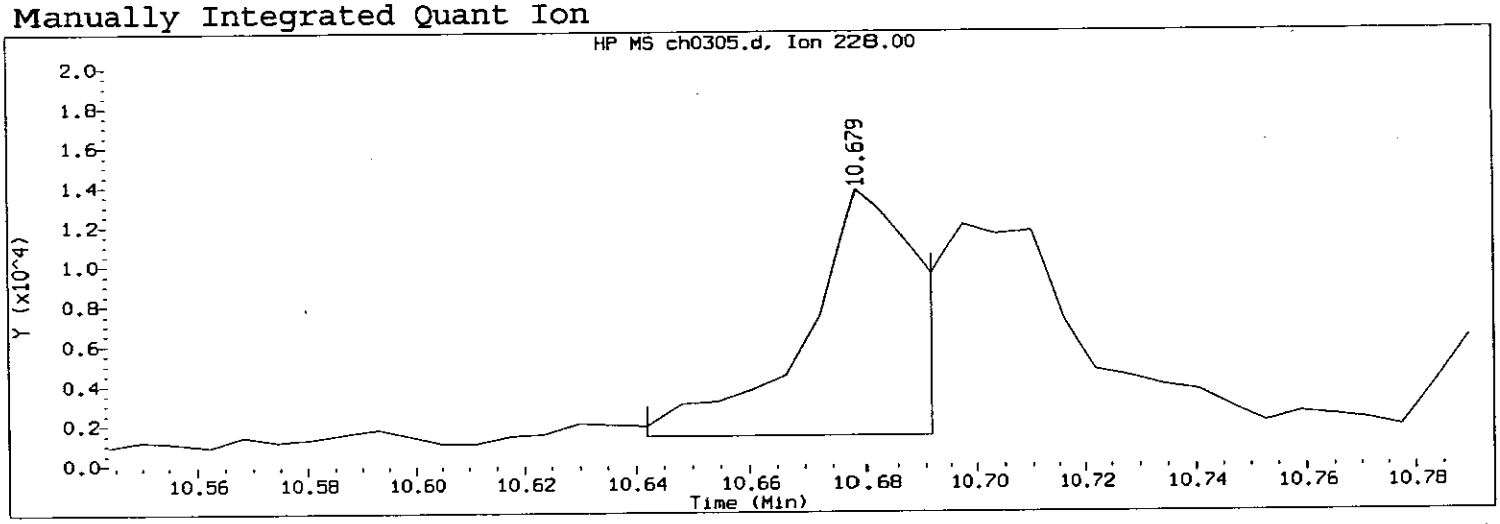
0187

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0305.d, generated on 08/10/2007 at 04:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

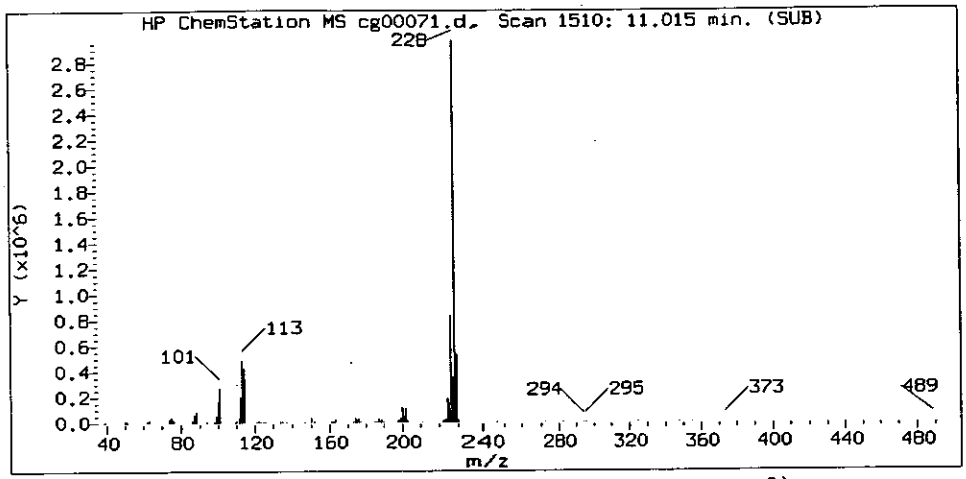
Compound Number	:	146
Compound Name	:	Benzo(a)anthracene
Scan Number	:	1496
Retention Time (minutes)	:	10.679
Quant Ion	:	228
Area (flag)	:	16870 M
Concentration (ng/ul)	:	2.1958
Integration start scan	:	1489 Integration stop scan: 1497
Y at integration start	:	1403 Y at integration end: 1403

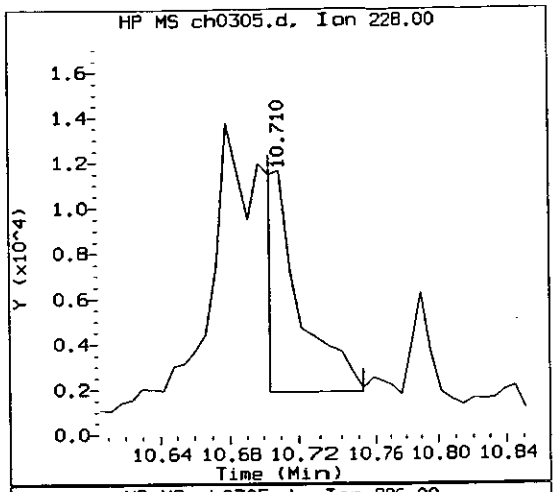
Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8/10/07

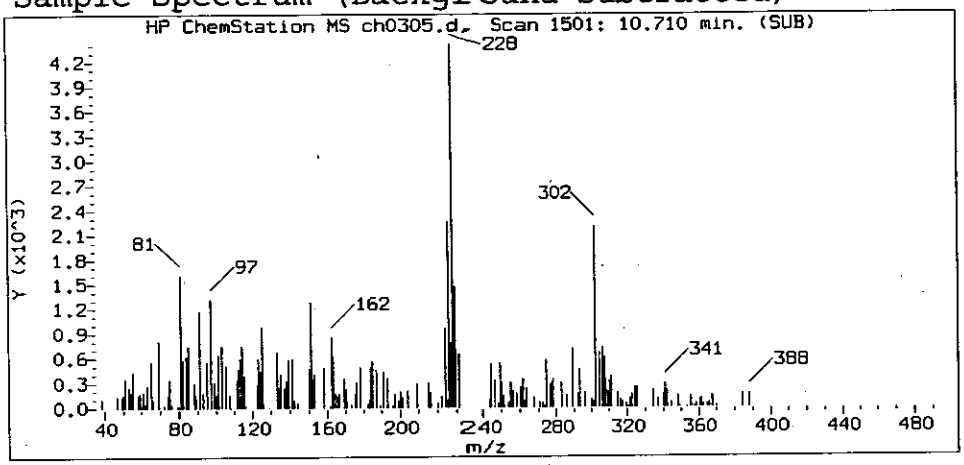
GC/MS audit/management approval: [signature] 8/13/07

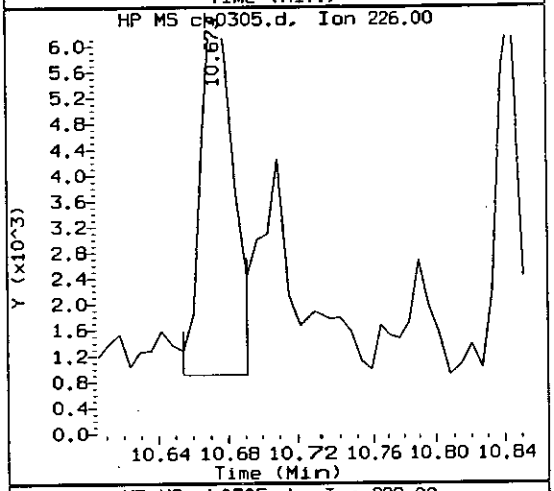
Reference Standard Spectrum for Chrysene



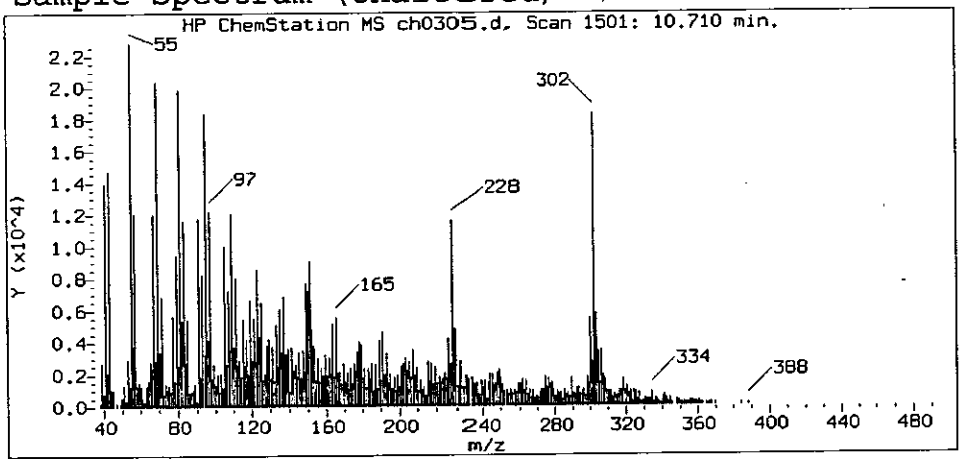


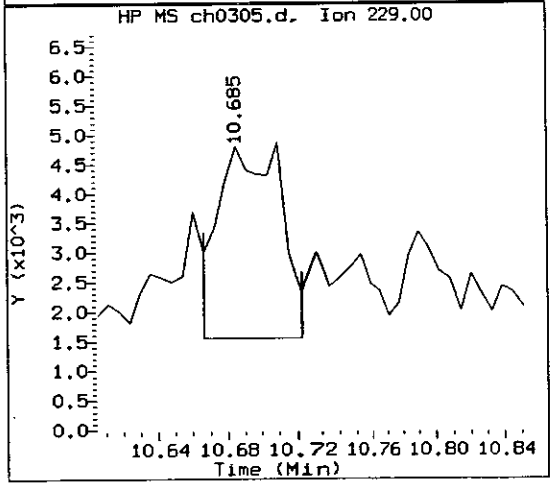
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

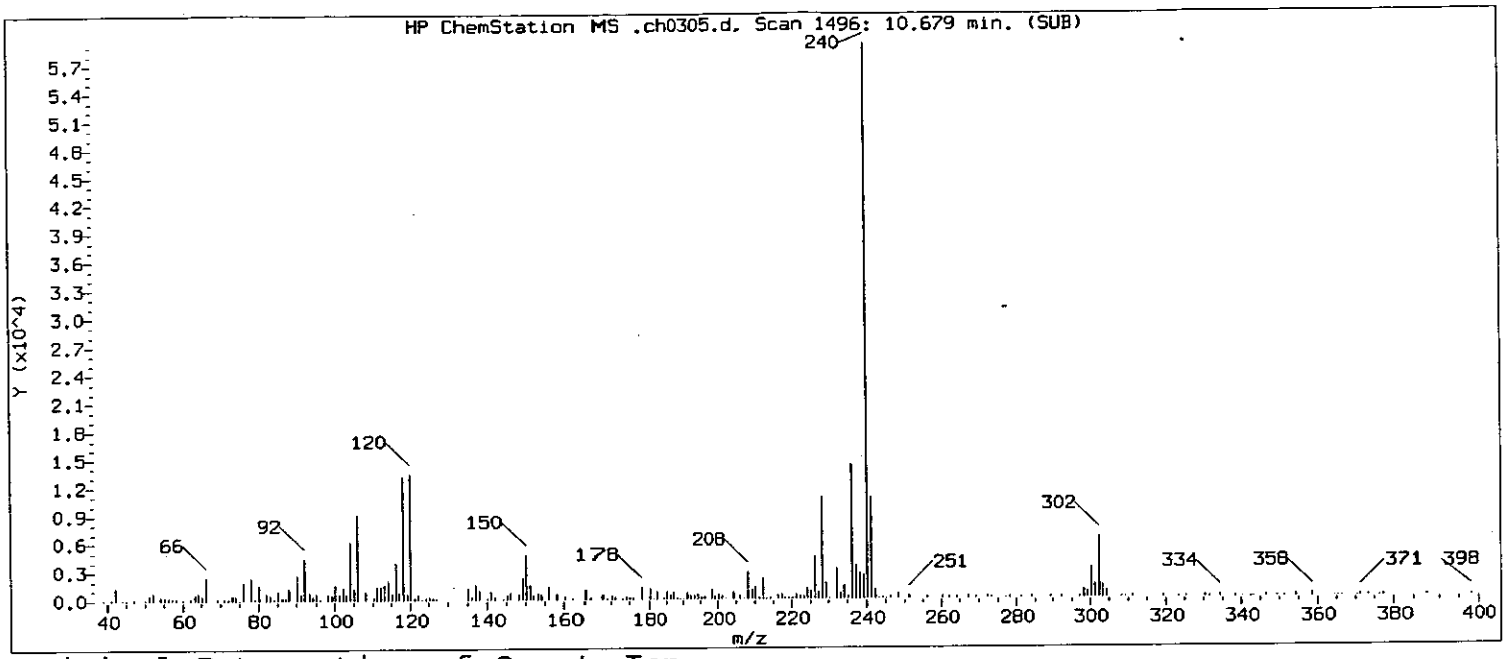
Sample Name: 4T217

Lab Sample ID: 5118305

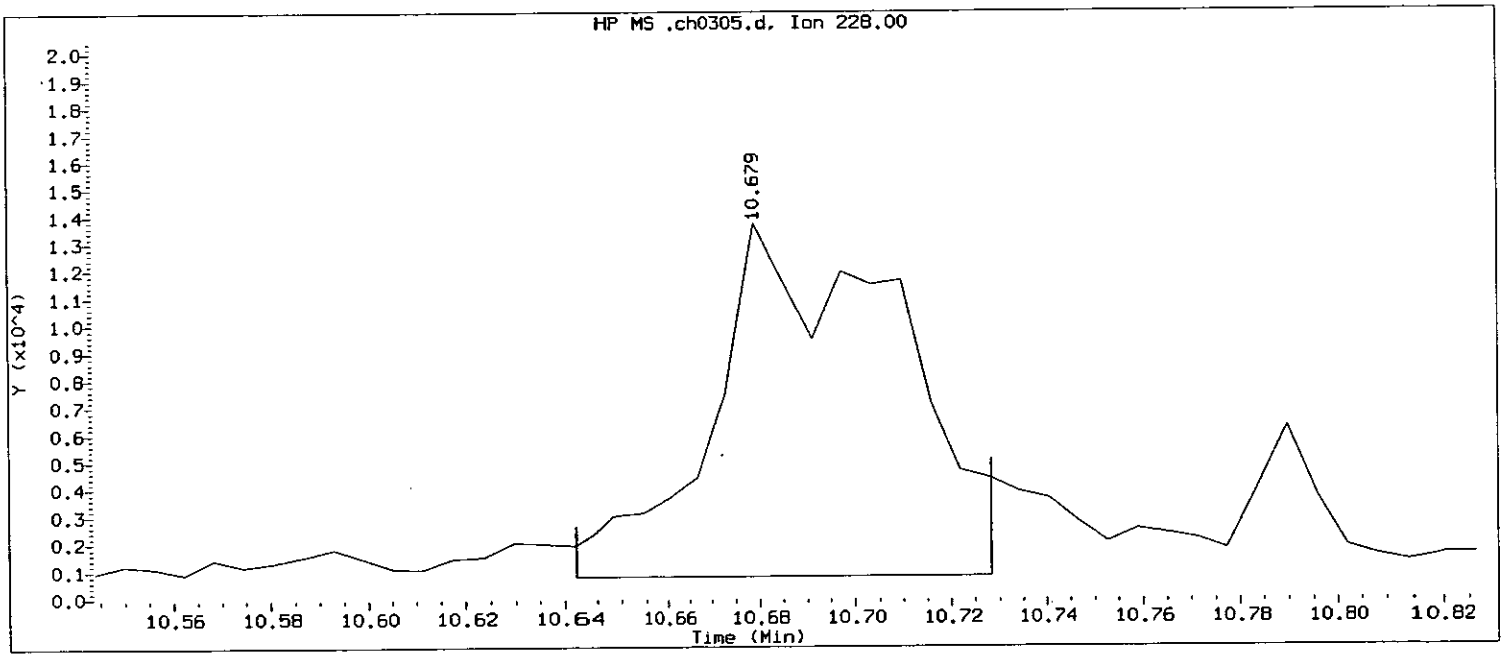
Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1501
Retention Time (minutes)	: 10.710
Quant Ion	: 228.0
Area (flag)	: 12878 M
Concentration (ng/ul)	: 1.6986

0189

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:42 Automation

Sample Name: 4T217 Lab Sample ID: 5118305

Compound Number	:	150
Compound Name	:	Chrysene
Scan Number	:	1496
Retention Time (minutes)	:	10.679
Quant Ion	:	228
Area	:	35287
Concentration (ng/ul)	:	4.6541
Integration start scan	:	1489
Y at integration start	:	774

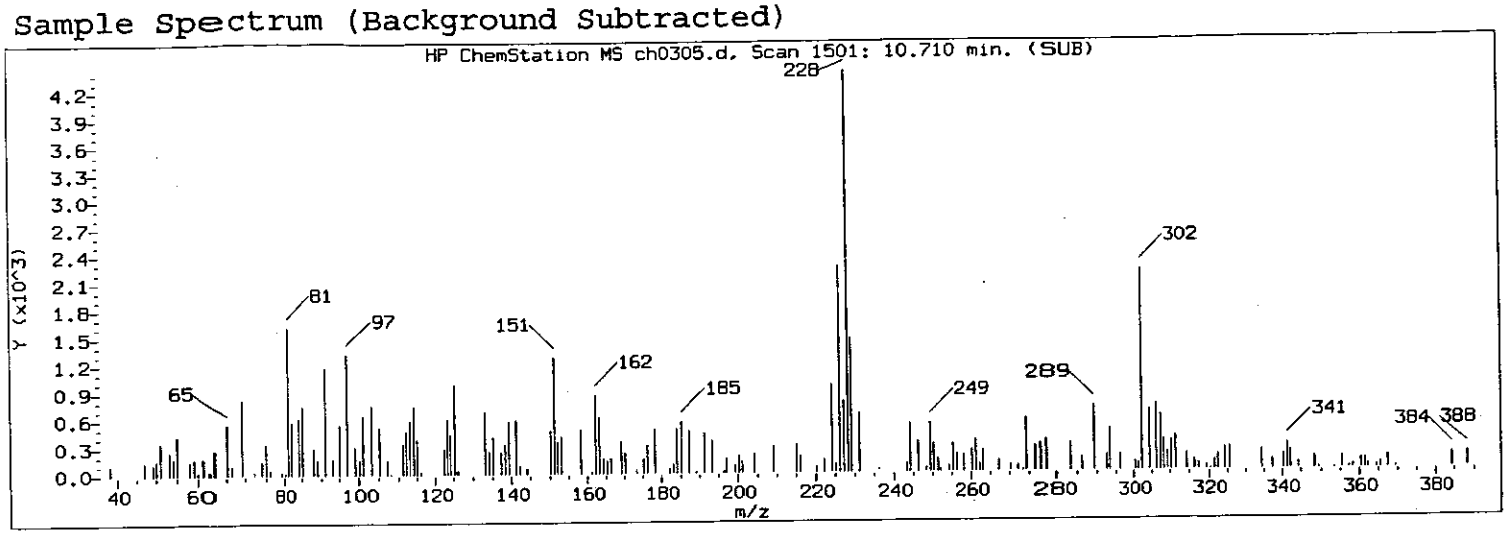
Integration stop scan: 1503
Y at integration end: 774

YBC-SII
8-10-07

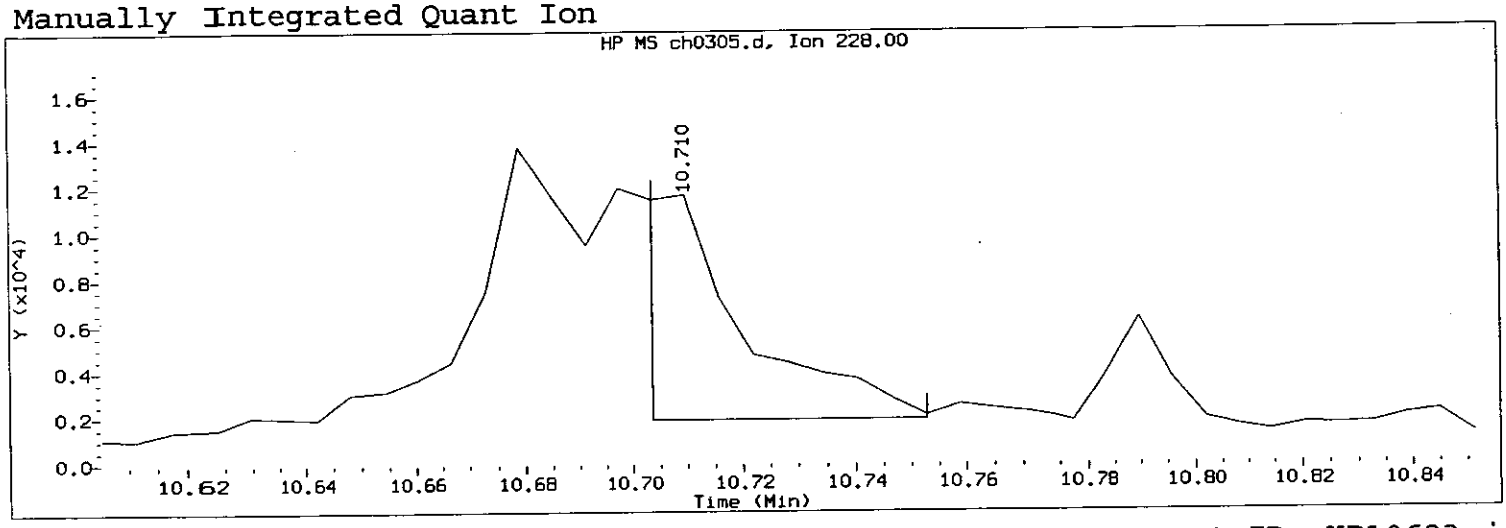
0198

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0305.d, generated on 08/10/2007 at 04:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

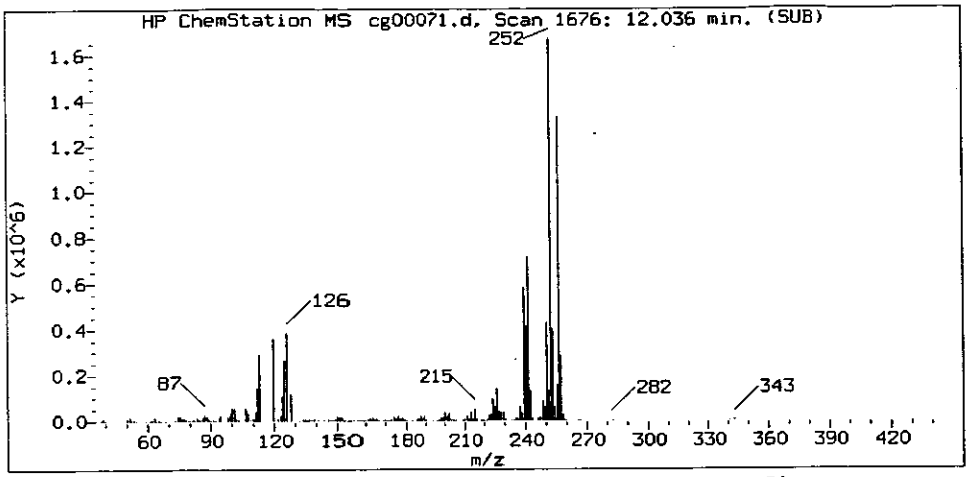
Compound Number	: 150	
Compound Name	: Chrysene	
Scan Number	: 1501	
Retention Time (minutes)	: 10.710	
Quant Ion	: 228	
Area (flag)	: 12878	M
Concentration (ng/ul)	: 1.6986	
Integration start scan	: 1499	Integration stop scan: 1507
Y at integration start	: 1860	Y at integration end: 1860

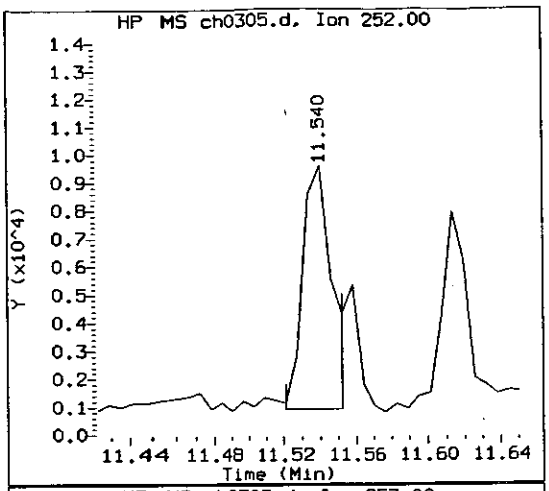
Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: [signature] 8/13/07

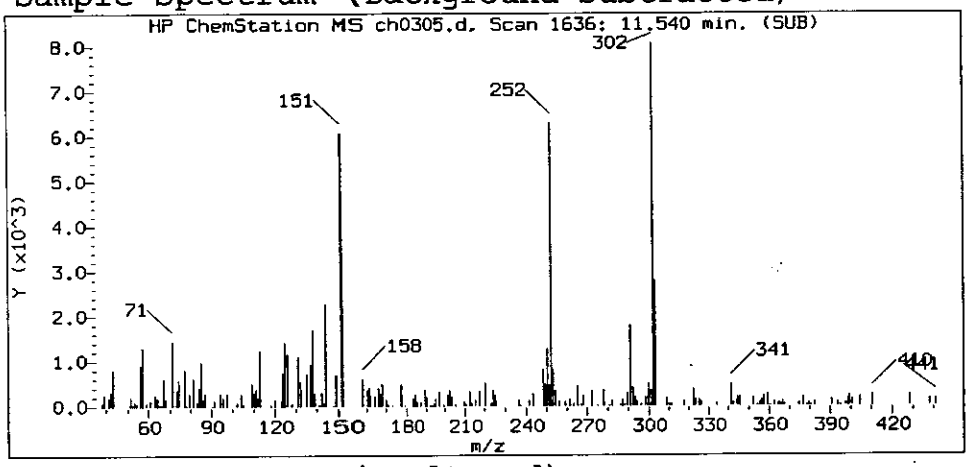
GC/MS audit/management approval: 8191 [signature] 8/13/07

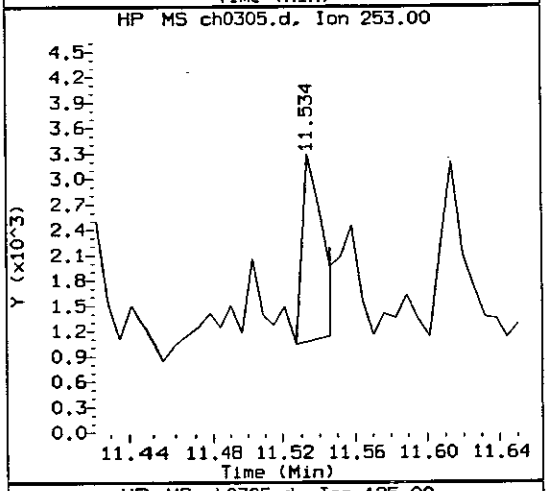
Reference Standard Spectrum for Benzo(b)fluoranthene



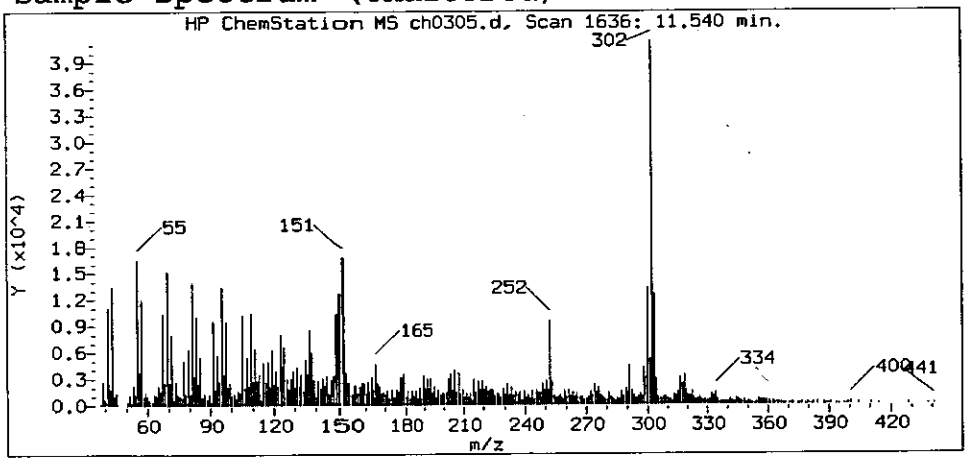


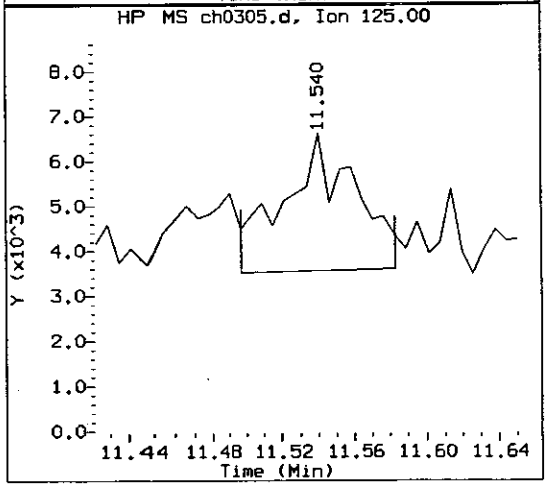
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

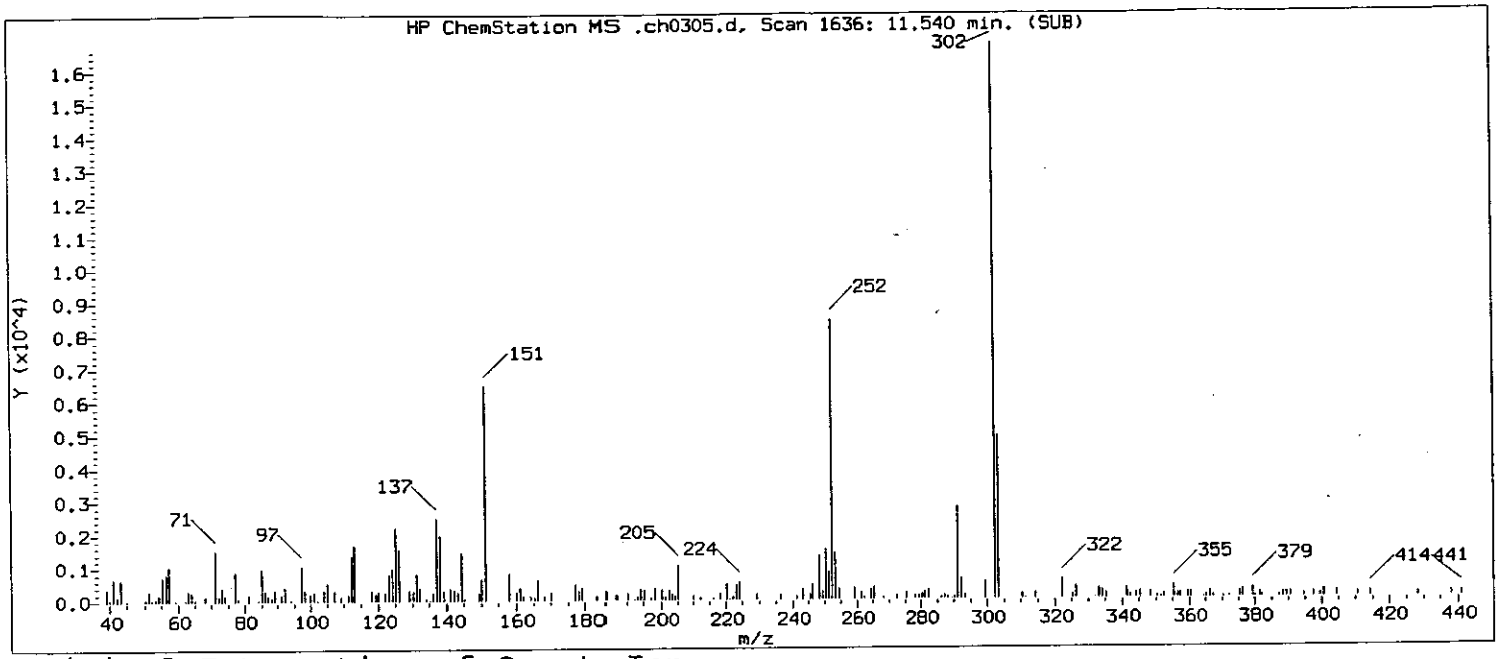
Sample Name: 4T217

Lab Sample ID: 5118305

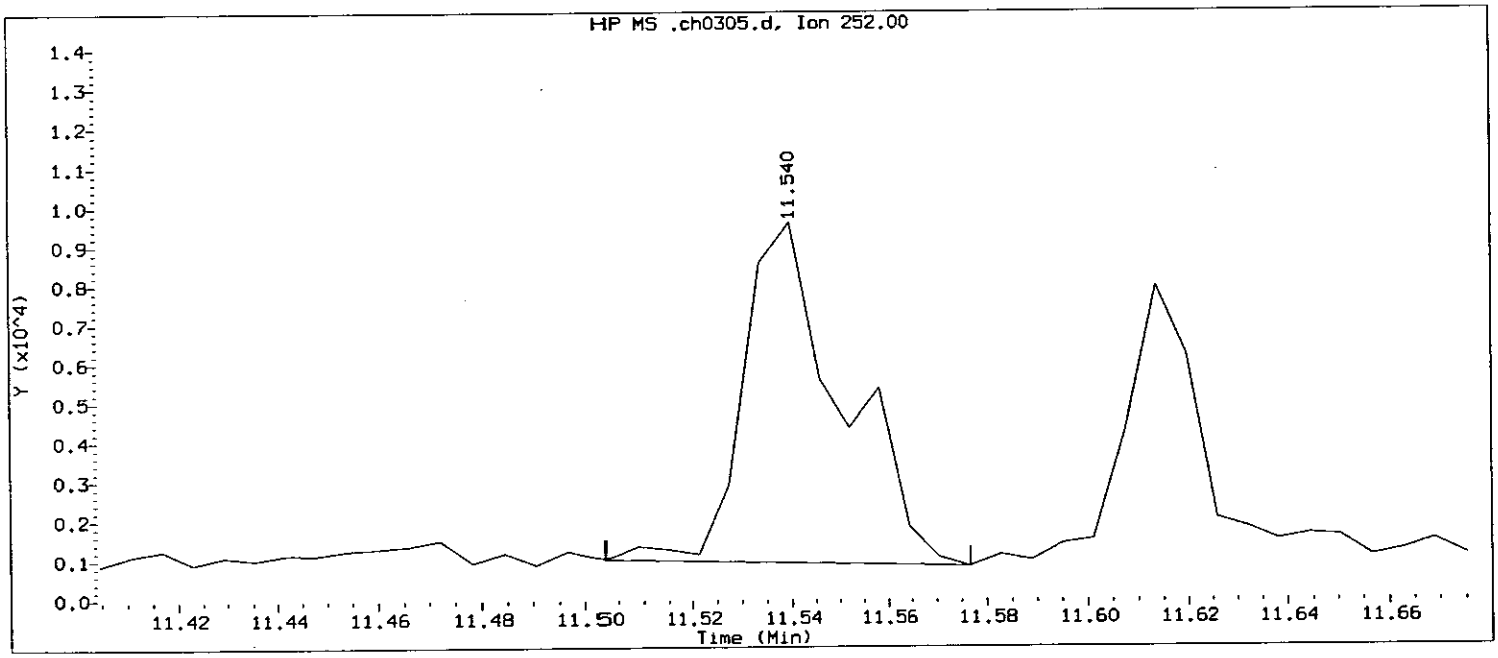
Compound Number	: 158
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1636
Retention Time (minutes)	: 11.540
Quant Ion	: 252.0
Area (flag)	: 9791 M
Concentration (ng/ul)	: 1.2973

8192

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:42 Automation

Sample Name: 4T217 Lab Sample ID: 5118305

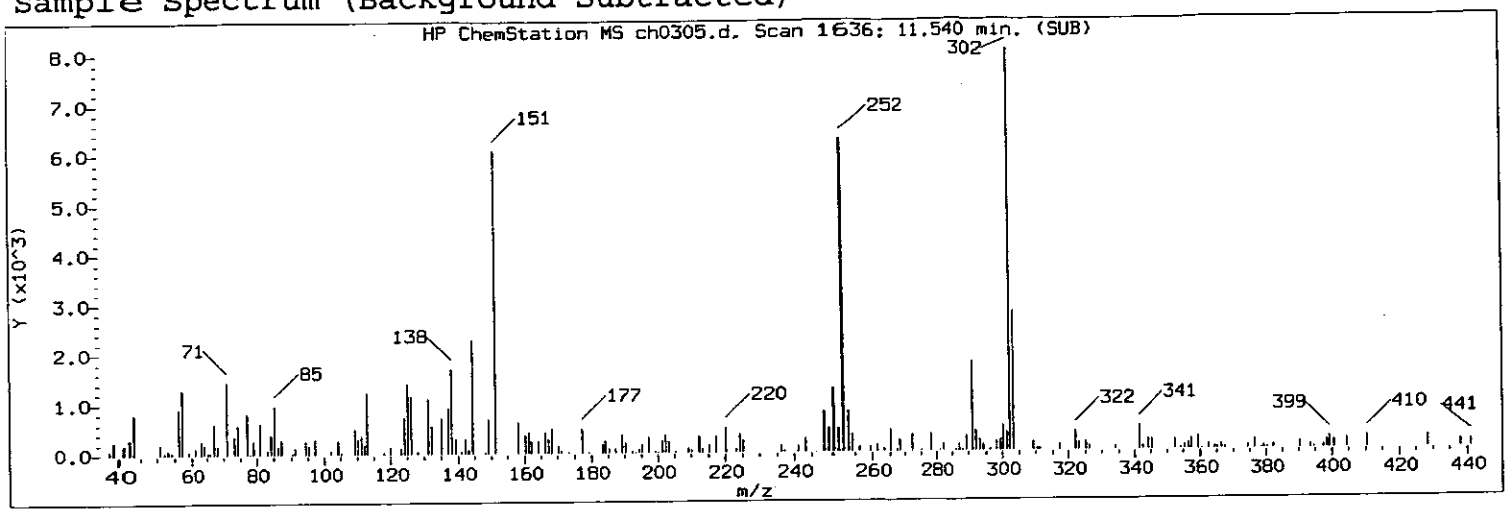
Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1636
Retention Time (minutes)	:	11.540
Quant Ion	:	252
Area	:	12112
Concentration (ng/ul)	:	1.6048
Integration start scan	:	1629
Y at integration start	:	1002

Integration stop scan: 1641
Y at integration end: 810

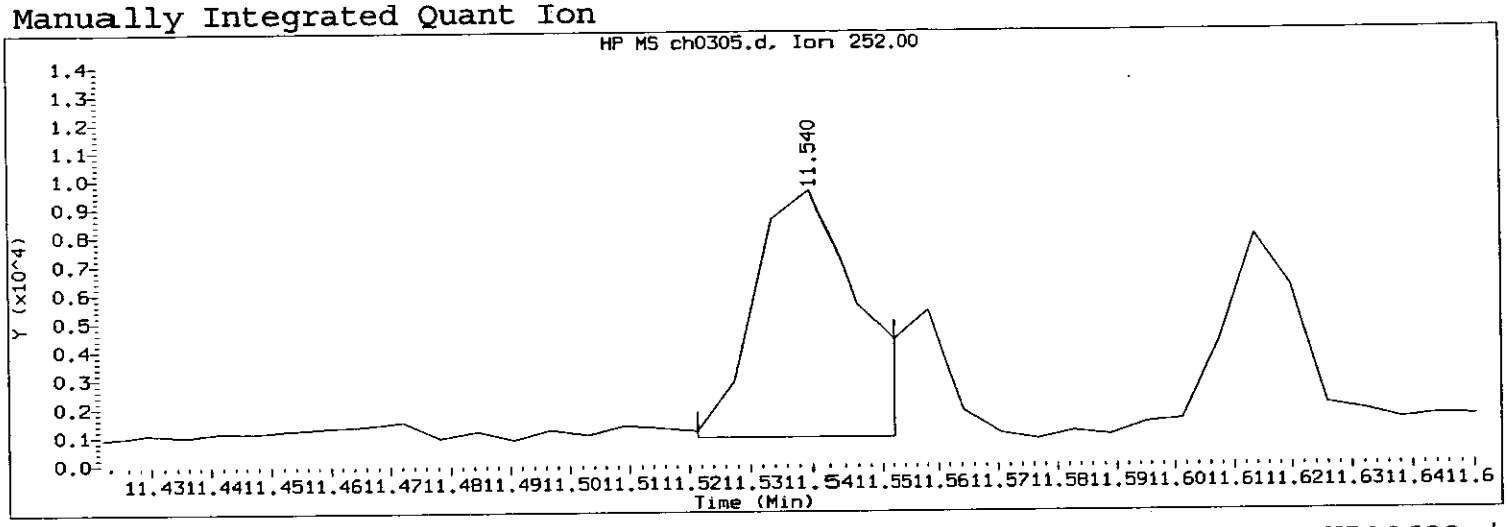
BGow
8193

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0305.d, generated on 08/10/2007 at 04:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

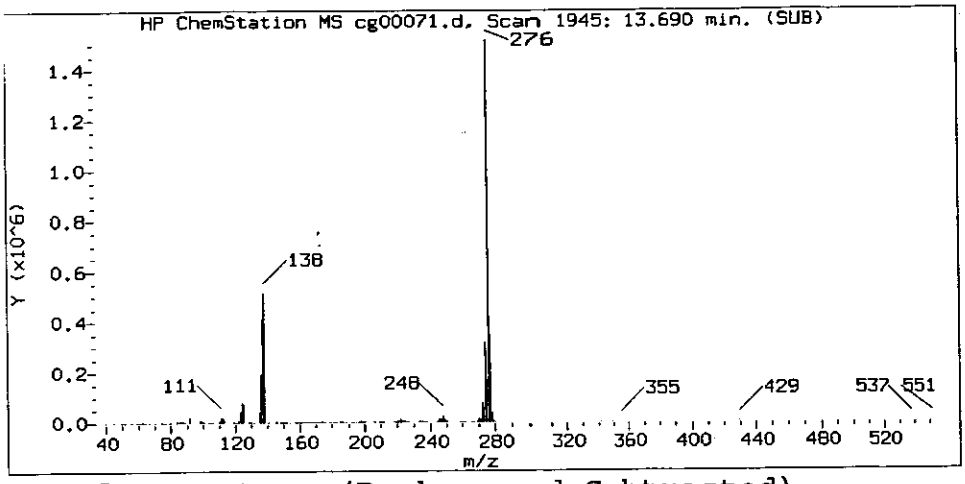
Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1636
Retention Time (minutes): 11.540
Quant Ion : 252
Area (flag) : 9791 M
Concentration (ng/ul) : 1.2973
Integration start scan : 1632 Integration stop scan: 1637
Y at integration start : 916 Y at integration end: 916

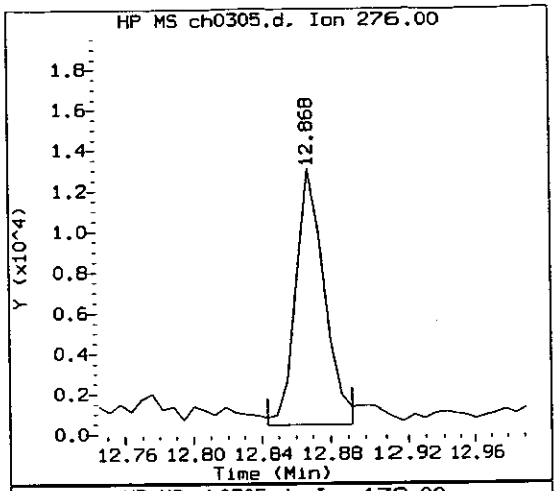
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 8194 8/9/07

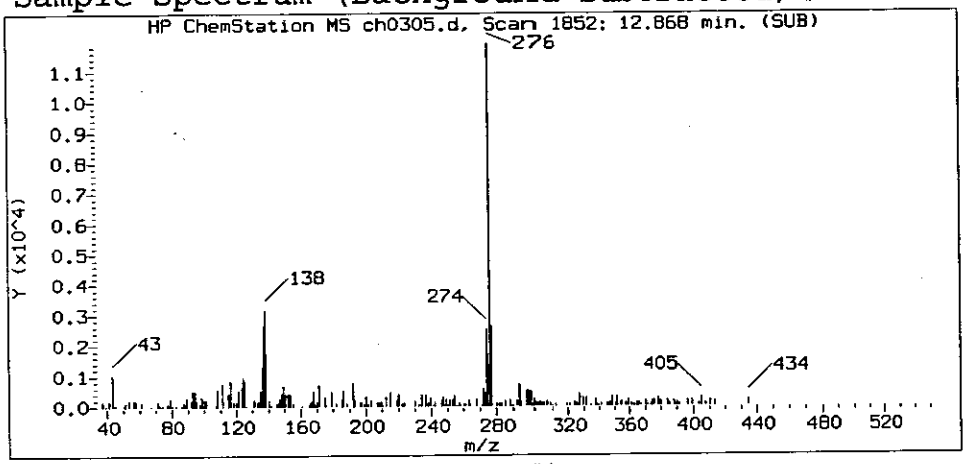
GC/MS audit/management approval: _____

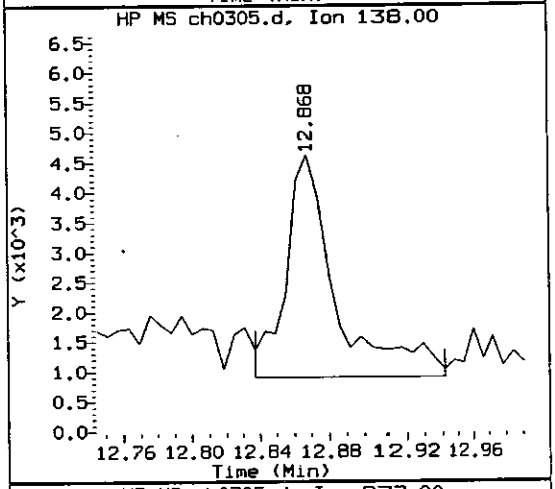
Reference Standard Spectrum for Benzo(g,h,i)perylene



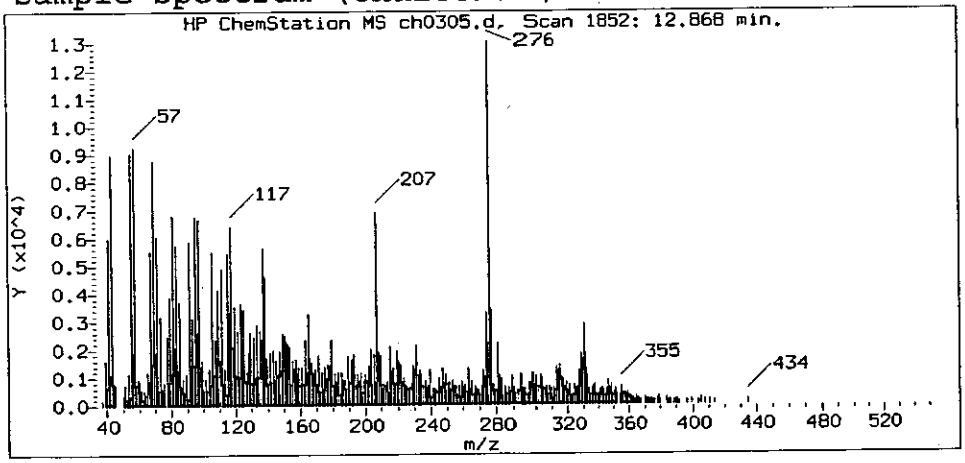


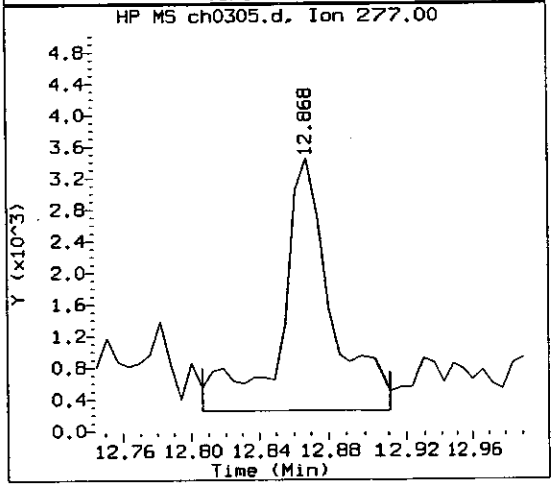
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0305.d
Injection date and time: 09-AUG-2007 22:27

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

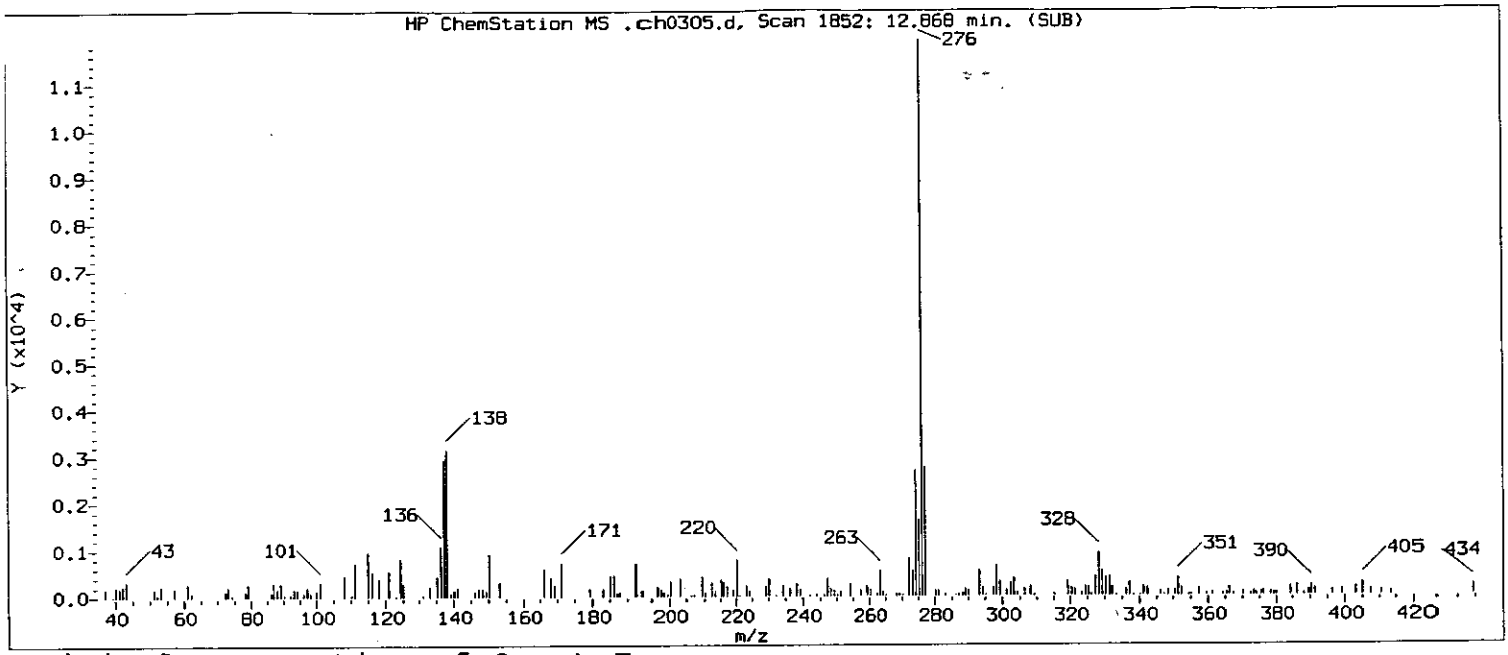
Sample Name: 4T217

Lab Sample ID: 5118305

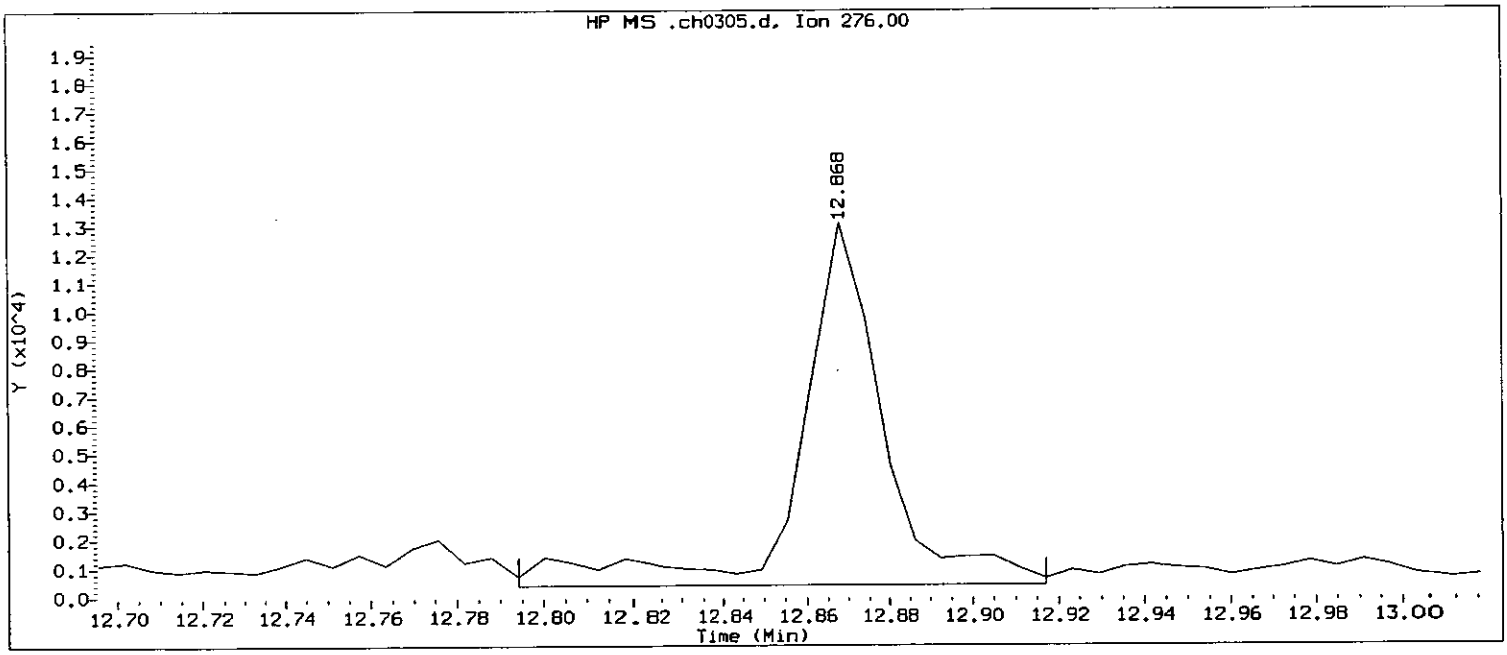
Compound Number	:	170
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	1852
Retention Time (minutes)	:	12.868
Quant Ion	:	276.0
Area (flag)	:	14417 M
Concentration (ng/ul)	:	2.0616

0195

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 22:42 Automation

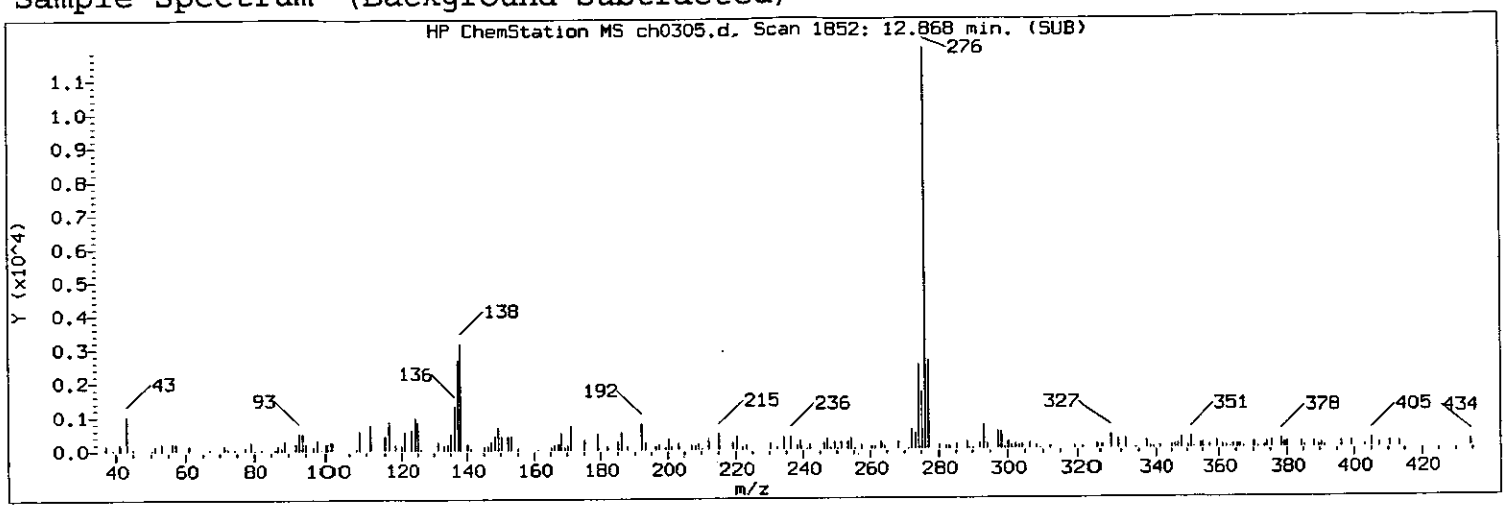
Sample Name: 4T217 Lab Sample ID: 5118305

Compound Number	:	170
Compound Name	:	Benzo(g,h,i)perylene
Scan Number	:	1852
Retention Time (minutes)	:	12.868
Quant Ion	:	276
Area	:	17497
Concentration (ng/ul)	:	2.5021
Integration start scan	:	1839
Integration stop scan	:	1859
Y at integration start	:	393
Y at integration end	:	393

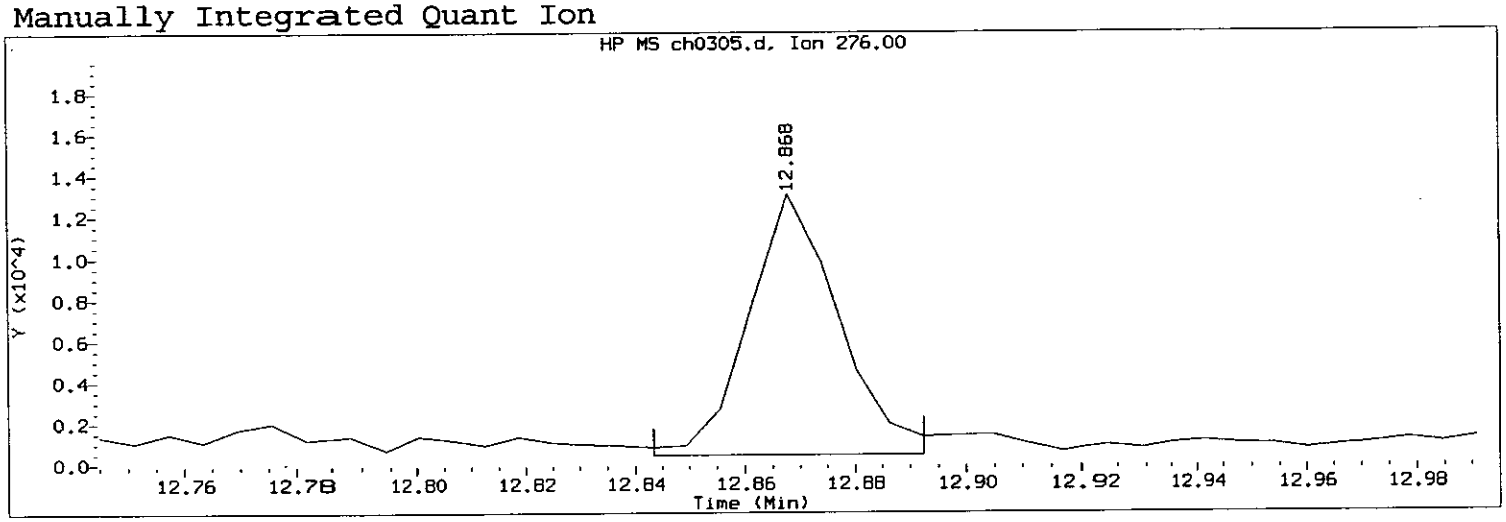
8196

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0305.d, generated on 08/10/2007 at 04:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0305.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:27 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:47 bkg00522

Sample Name: 4T217 Lab Sample ID: 5118305

Compound Number : 170
Compound Name : Benzo(g,h,i)perylene
Scan Number : 1852
Retention Time (minutes): 12.868
Quant Ion : 276
Area (flag) : 14417 M
Concentration (ng/ul) : 2.0616
Integration start scan : 1847 Integration stop scan: 1855
Y at integration start : 445 Y at integration end: 445

Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8/10/07

8197 [signature] 8/10/07

GC/MS audit/management approval: _____

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD801

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118306

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0306.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 15 dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/09/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/KG	Q
91-20-3	Naphthalene		310	
208-96-8	Acenaphthylene		2300	
83-32-9	Acenaphthene		140	J
86-73-7	Fluorene		390	
85-01-8	Phenanthrene		3100	
120-12-7	Anthracene		1900	
206-44-0	Fluoranthene		7500	E
129-00-0	Pyrene		8400	E
56-55-3	Benzo(a)anthracene		6200	E
218-01-9	Chrysene		5700	E
205-99-2	Benzo(b)fluoranthene		8200	E
207-08-9	Benzo(k)fluoranthene		2900	
50-32-8	Benzo(a)pyrene		5100	E
193-39-5	Indeno(1,2,3-cd)pyrene		3200	
53-70-3	Dibenz(a,h)anthracene		1100	
191-24-2	Benzo(g,h,i)perylene		3200	

FD801

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118306

Data file: /chem/HP10623.i/07aug09a.b/ch0306.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:48 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.715(0.000)	526	152.0	82559(-15)	40.00	
46) Naphthalene-d8	5.846(0.000)	710	136.0	366836(-19)	40.00	
82) Acenaphthene-d10	7.316(0.000)	949	164.0	218750(-17)	40.00	
120) Phenanthrene-d10	8.527(0.006)	1146	188.0	367295(-20)	40.00	
149) Chrysene-d12	10.697(-0.012)	1499	240.0	268230(-31)	40.00	
161) Perylene-d12	11.835(-0.012)	1684	264.0	236088(-27)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.225(0.000)	82	371770	103.963	104%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.775(0.000)	172	615691	89.432	89%		55 - 123
138) Terphenyl-d14	(5)	9.855(0.000)	244	571725	103.552	104%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)	5.858(0.001)	128	80151	8.003	266.77			1.00
80) Acenaphthylene	(3)	7.199(0.000)	152	566646	57.654	1921.81			1.00
83) Acenaphthene	(3)	7.340(0.000)	153	22064	3.579	119.29			1.00
94) Fluorene	(3)	7.764(0.000)	166	72893	9.901	330.02			1.00
121) Phenanthrene	(4)	8.552(-0.001)	178	801636	80.093	2669.76			1.00
124) Anthracene	(4)	8.588(-0.001)	178	492988	47.748	1591.60			1.00
134) Fluoranthene	(4)	9.523(-0.002)	202	2155316	192.203	6406.75		E	1.00
136) Pyrene	(5)	9.707(0.000)	202	1795128	214.139	7137.98		E	1.00
146) Benzo(a)anthracene	(5)	10.685(0.001)	228	1196602	157.980	5266.00		E	1.00
150) Chrysene	(5)	10.716(0.001)	228	1094358	146.406	4880.19		E	1.00
158) Benzo(b)fluoranthene	(6)	11.552(0.000)	252	1666564	210.183	7006.10		E	1.00
159) Benzo(k)fluoranthene	(6)	11.570(0.000)	252	660077	74.075	2469.17			1.00
160) Benzo(a)pyrene	(6)	11.798(-0.001)	252	1022775	131.262	4375.41		E	1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.659(0.000)	276	711568	81.214	2707.14			1.00
169) Dibenz(a,h)anthracene	(6)	12.671(0.001)	278	199696	28.462	948.72			1.00
170) Benzo(g,h,i)perylene	(6)	12.892(0.000)	276	600142	81.689	2722.97			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

FD801

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118306

Data file: /chem/HP10623.i/07aug09a.b/ch0306.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 22:48 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 10-AUG-2007 03:19
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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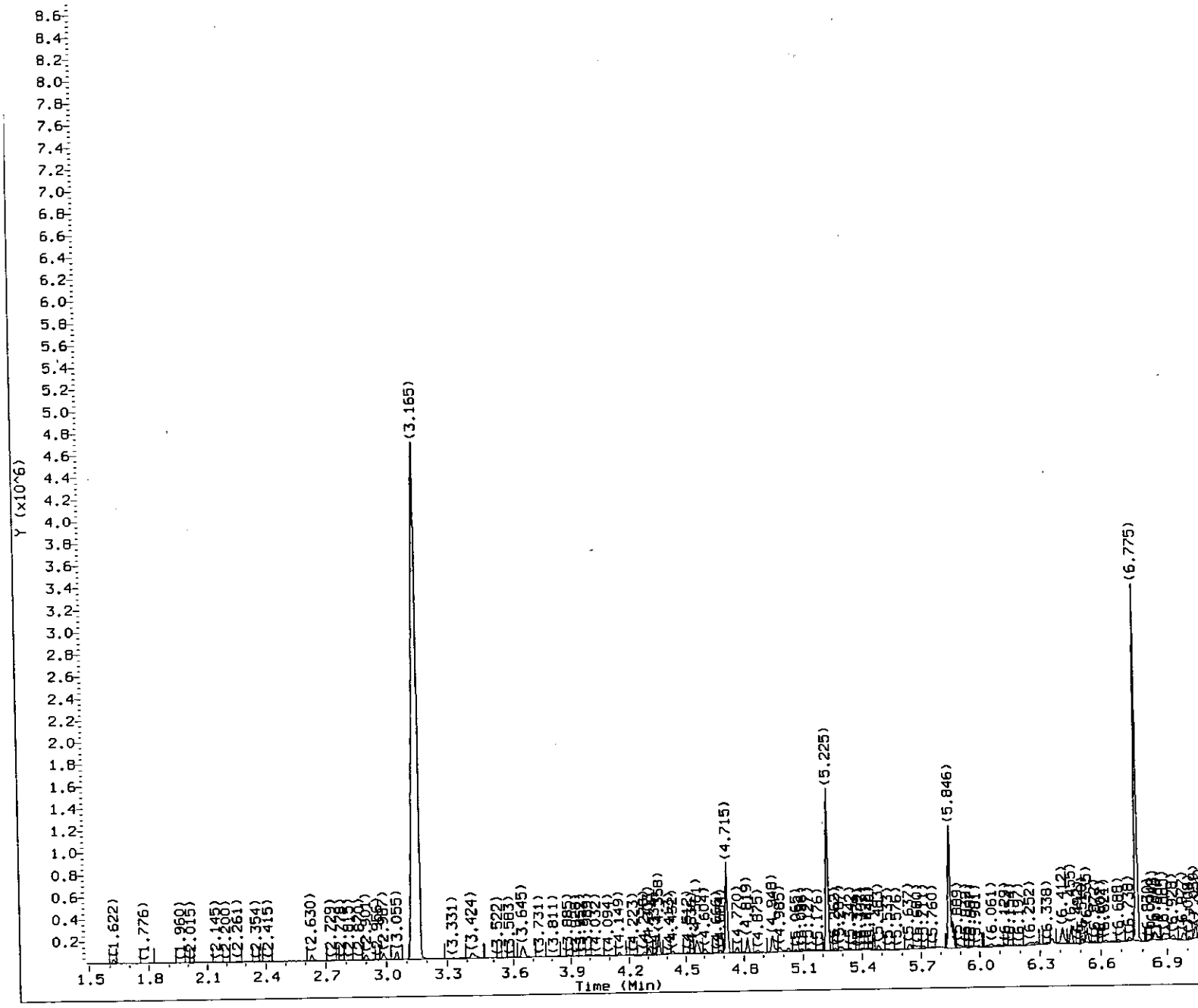
Total number of targets = 16

Comments:

Analyst: Date: 8/10/07
Auditor: Date: 8/13/07

8260



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

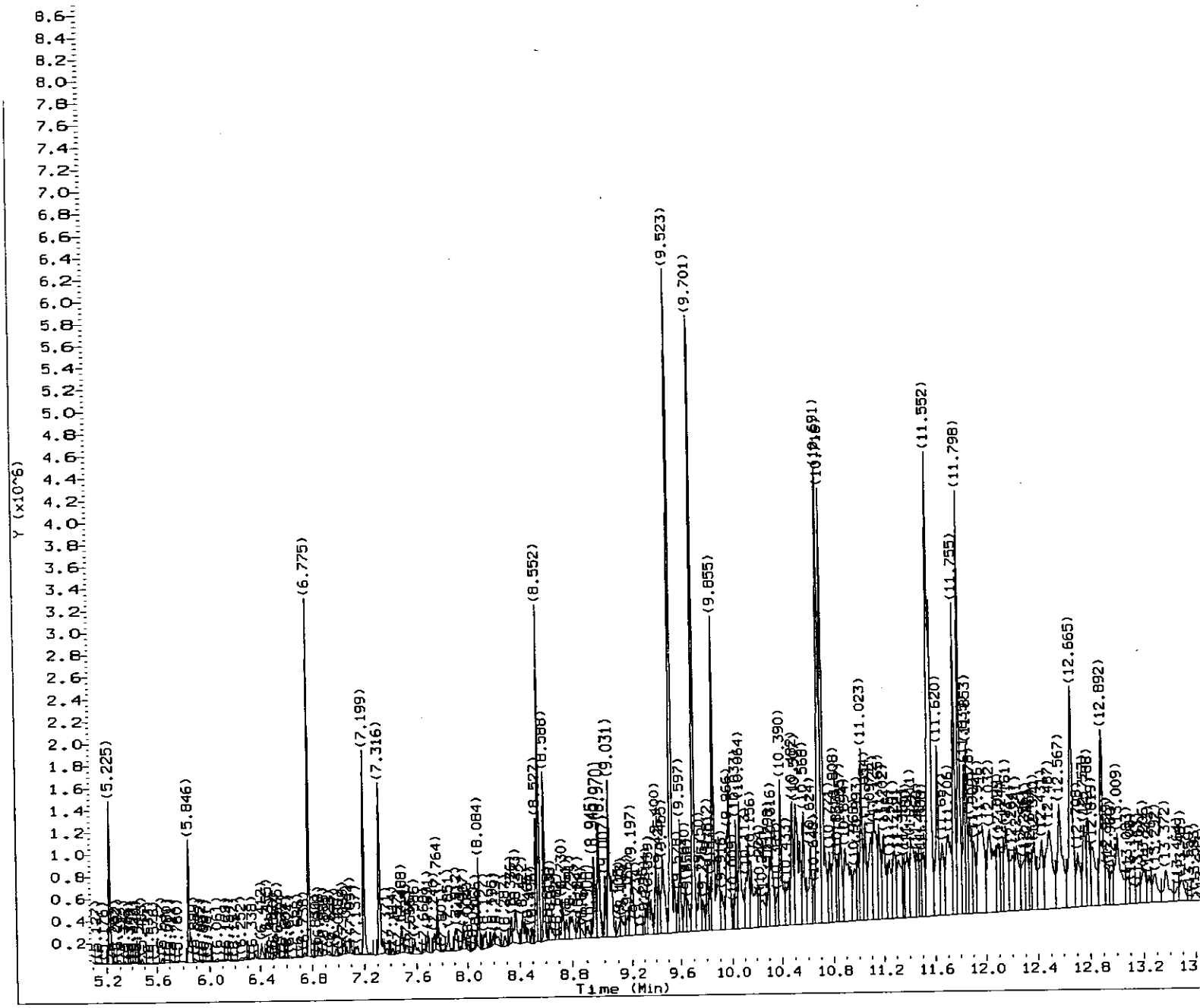
Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801

Lab Sample ID: 5118306

8281



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

BGm 8202
8/10/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: facO1858

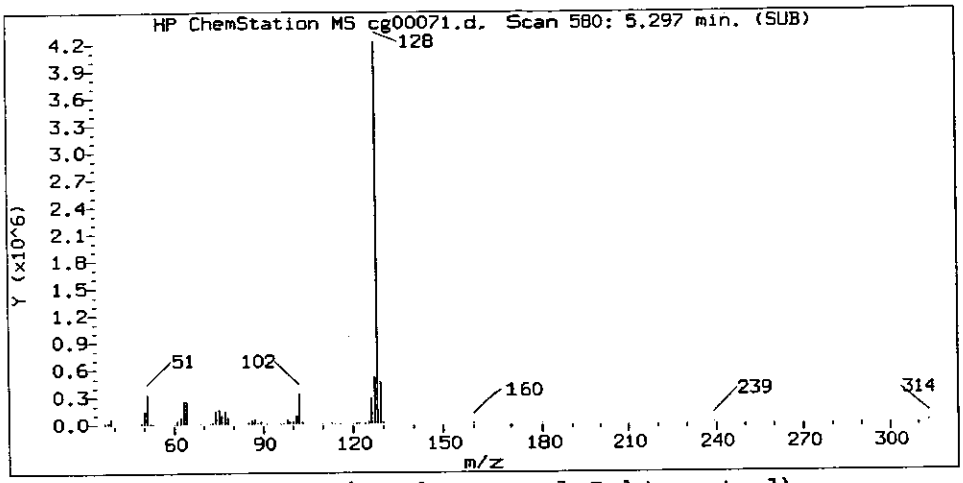
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

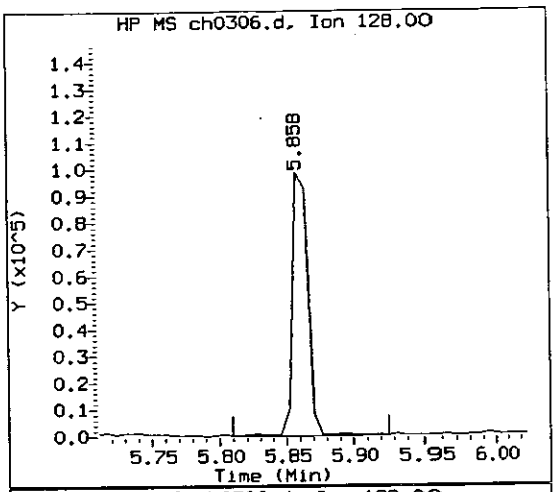
Sample Name: FD801 Lab Sample ID: 5118306

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.715	152	82559	40.0000
46)	Naphthalene-d8	(2)	5.846	136	366836	40.0000
47)	Naphthalene	(2)	5.858	128	80151	8.0031
80)	Acenaphthylene	(3)	7.199	152	566646	57.6542
82)	Acenaphthene-d10	(3)	7.316	164	218750	40.0000
83)	Acenaphthene	(3)	7.340	153	22064	3.5786
94)	Fluorene	(3)	7.764	166	72893	9.9005
120)	Phenanthrene-d10	(4)	8.527	188	367295	40.0000
121)	Phenanthrene	(4)	8.552	178	801636	80.0927
124)	Anthracene	(4)	8.588	178	492988	47.7481
134)	Fluoranthene	(4)	9.523	202	2155316	192.2026
136)	Pyrene	(5)	9.707	202	1795128	214.1394
146)	Benzo(a)anthracene	(5)	10.685	228	1196602	157.9800
149)	Chrysene-d12	(5)	10.697	240	268230	40.0000
150)	Chrysene	(5)	10.716	228	1094358	146.4057
158)	Benzo(b)fluoranthene	(6)	11.552	252	1666564M	210.1831
159)	Benzo(k)fluoranthene	(6)	11.570	252	660077M	74.0750
160)	Benzo(a)pyrene	(6)	11.798	252	1022775	131.2623
161)	Perylene-d12	(6)	11.835	264	236088M	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.659	276	711568M	81.2143
169)	Dibenz(a,h)anthracene	(6)	12.671	278	199696M	28.4615
170)	Benzo(g,h,i)perylene	(6)	12.892	276	600142	81.6892
35)	Nitrobenzene-d5	(2)	5.225	82	371770	103.9631
66)	2-Fluorobiphenyl	(3)	6.775	172	615691	89.4316
138)	Terphenyl-d14	(5)	9.855	244	571725	103.5520

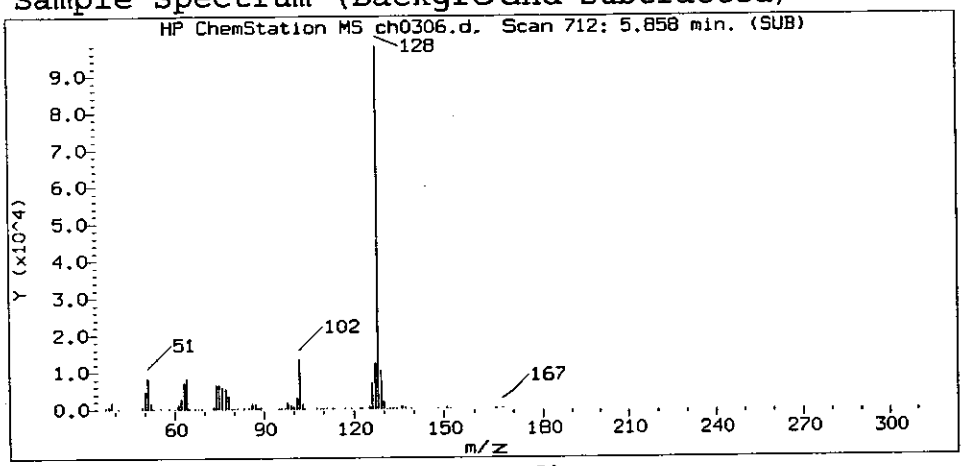
M = Compound was manually integrated. A = User selected an alternate hi

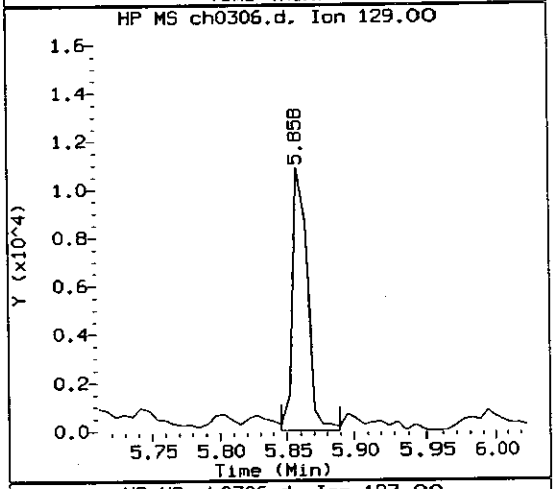
Reference Standard Spectrum for Naphthalene



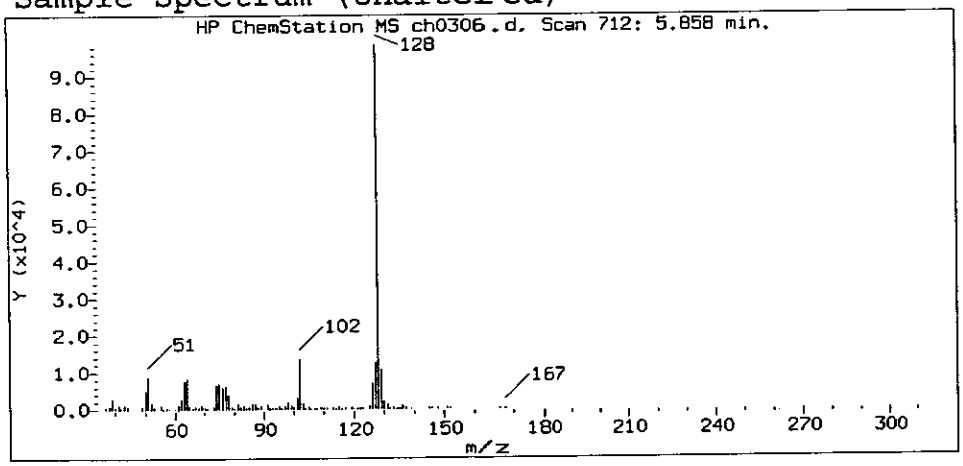


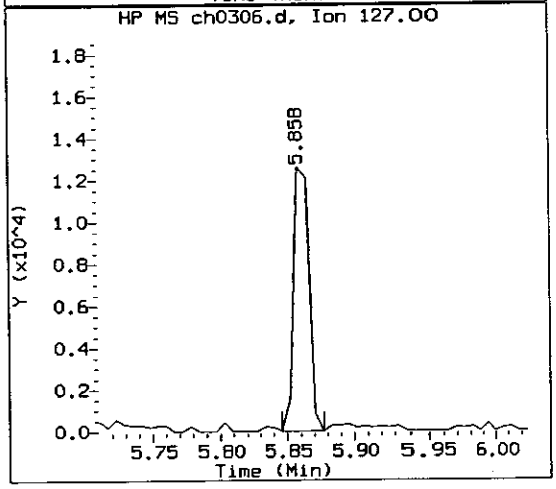
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

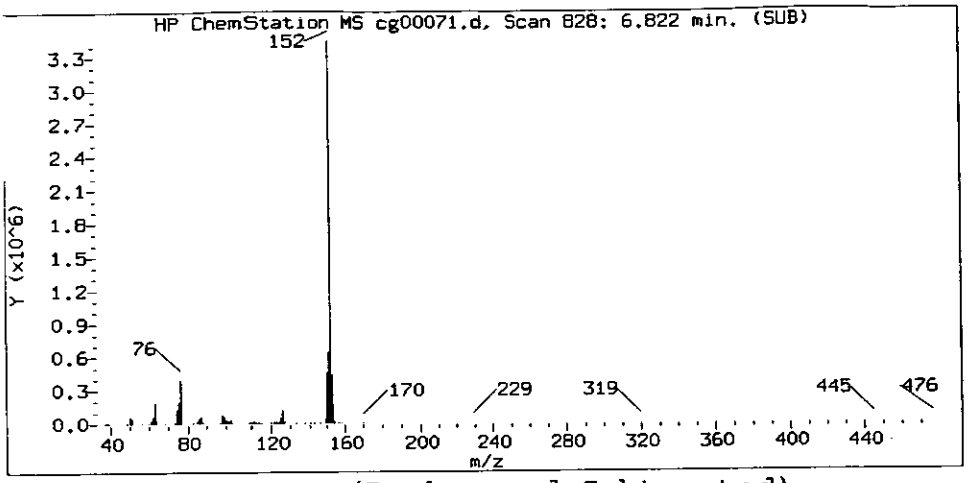
Sample Name: FD801

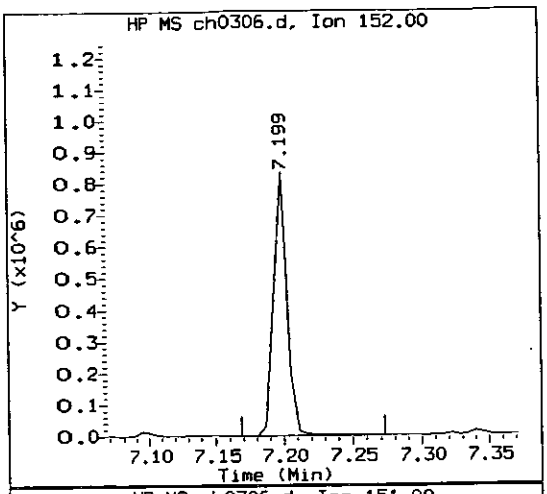
Lab Sample ID: 5118306

Compound Number	: 47
Compound Name	: Naphthalene
Scan Number	: 712
Retention Time (minutes)	: 5.858
Quant Ion	: 128.0
Area (flag)	: 80151
Concentration (ng/ul)	: 8.0031

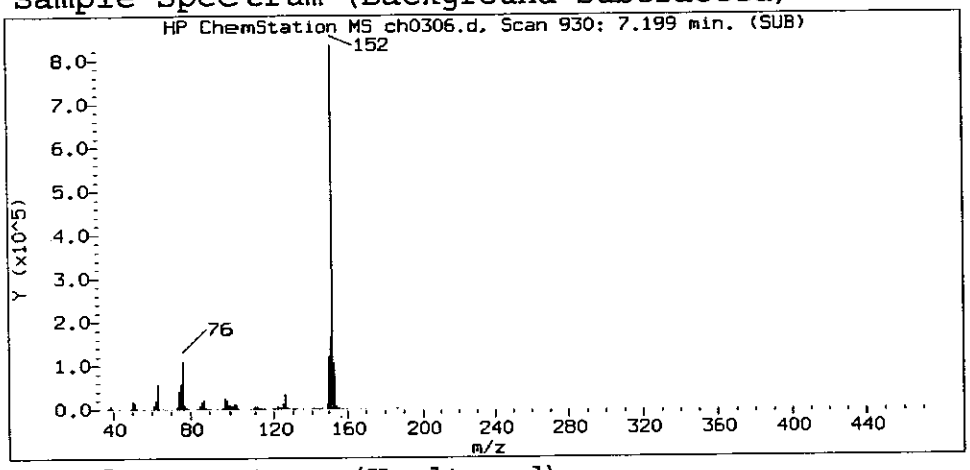
0284

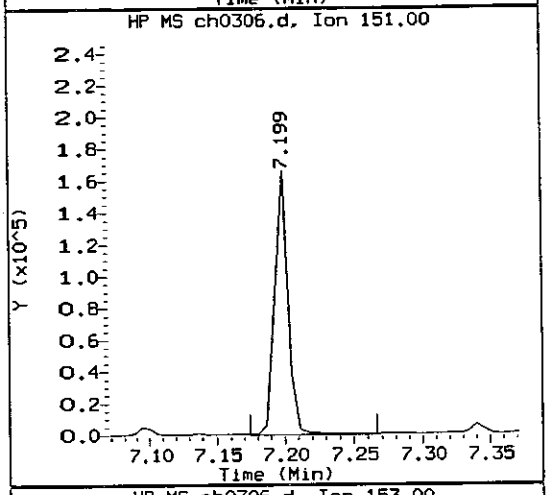
Reference Standard Spectrum for Acenaphthylene



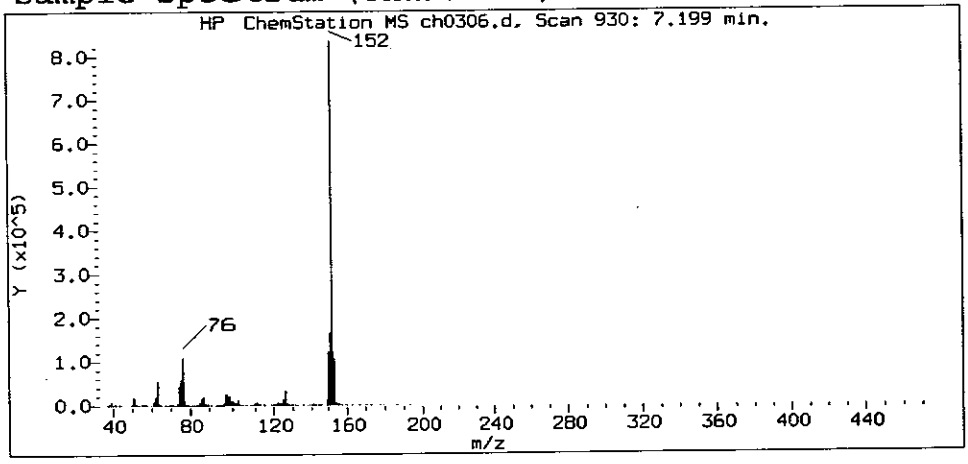


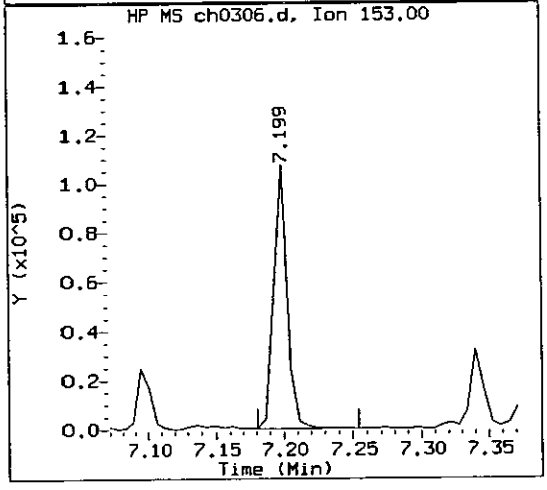
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

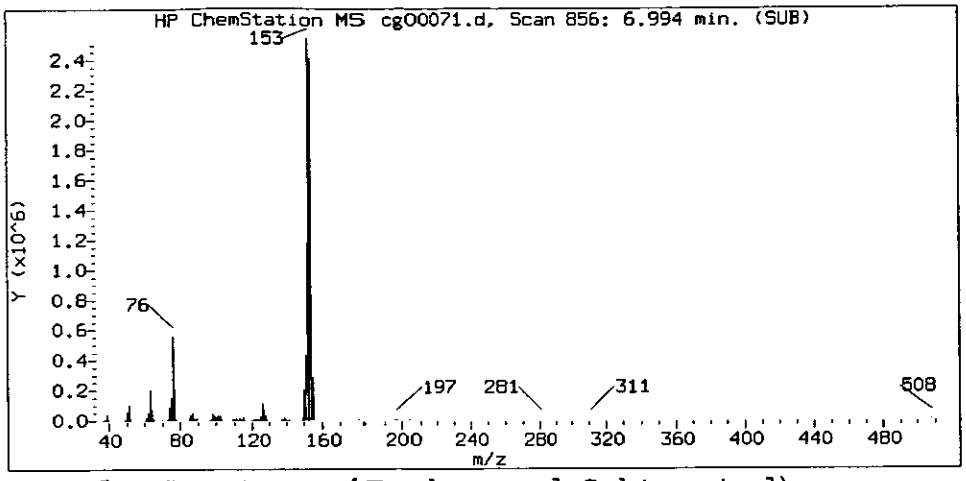
Sample Name: FD801

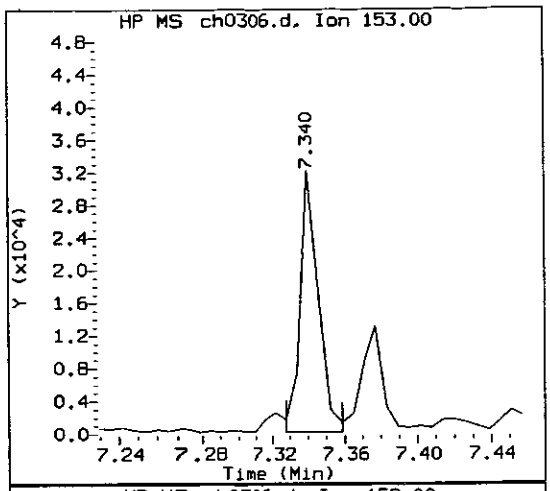
Lab Sample ID: 5118306

Compound Number	: 80
Compound Name	: Acenaphthylene
Scan Number	: 930
Retention Time (minutes)	: 7.199
Quant Ion	: 152.0
Area (flag)	: 566646
Concentration (ng/ul)	: 57.6542

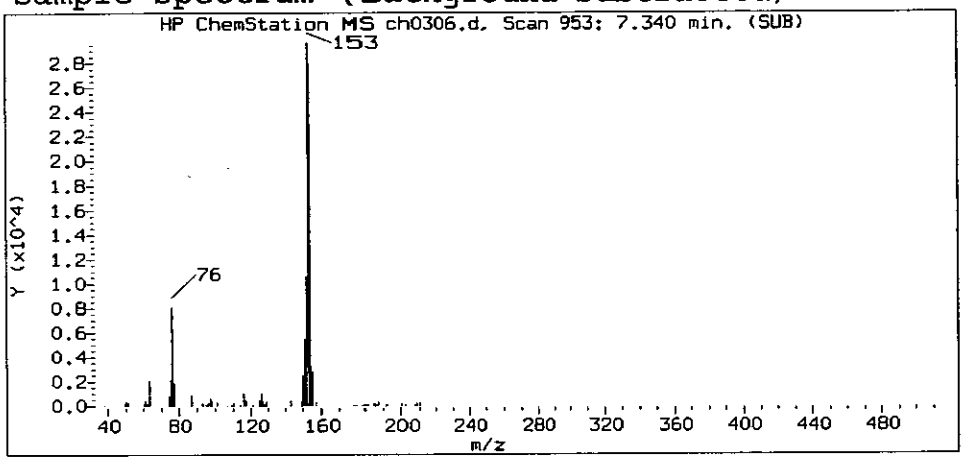
0285

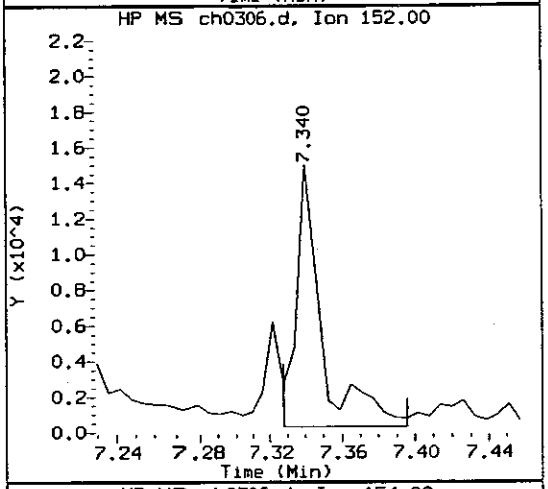
Reference Standard Spectrum for Acenaphthene



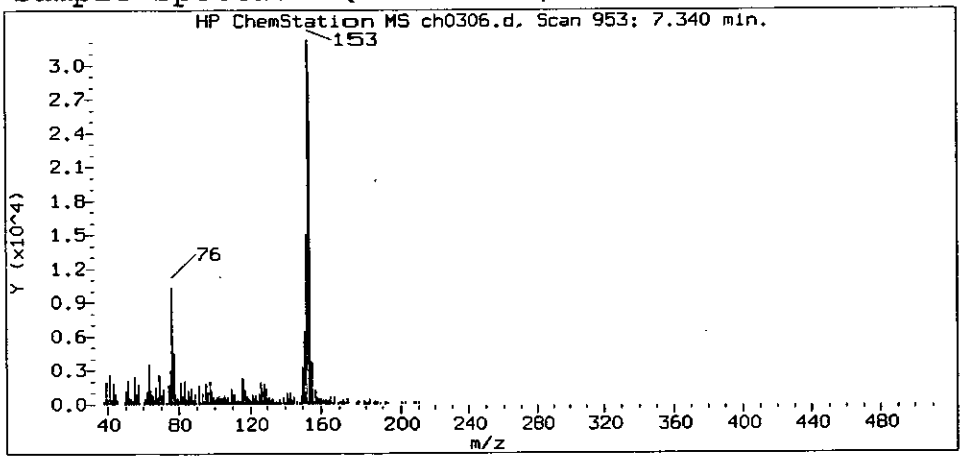


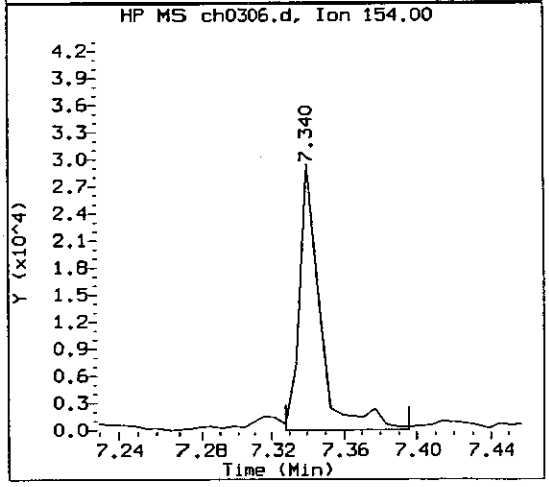
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

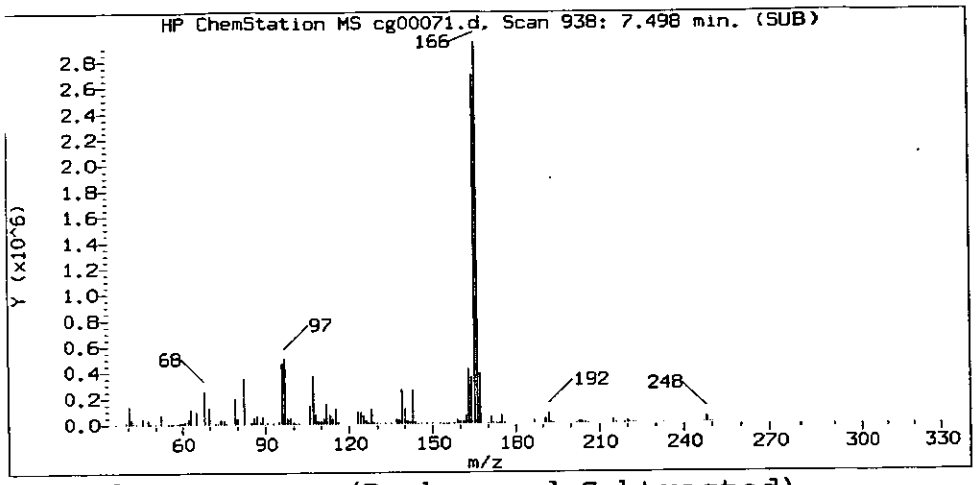
Sample Name: FD8 01

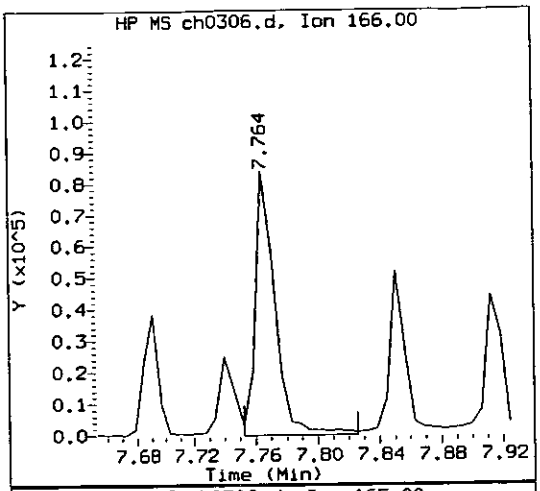
Lab Sample ID: 5118306

Compound Number	: 83
Compound Name	: Acenaphthene
Scan Number	: 953
Retention Time (minutes)	: 7.340
Quant Ion	: 153.0
Area (flag)	: 22064
Concentration (ng/ul)	: 3.5786

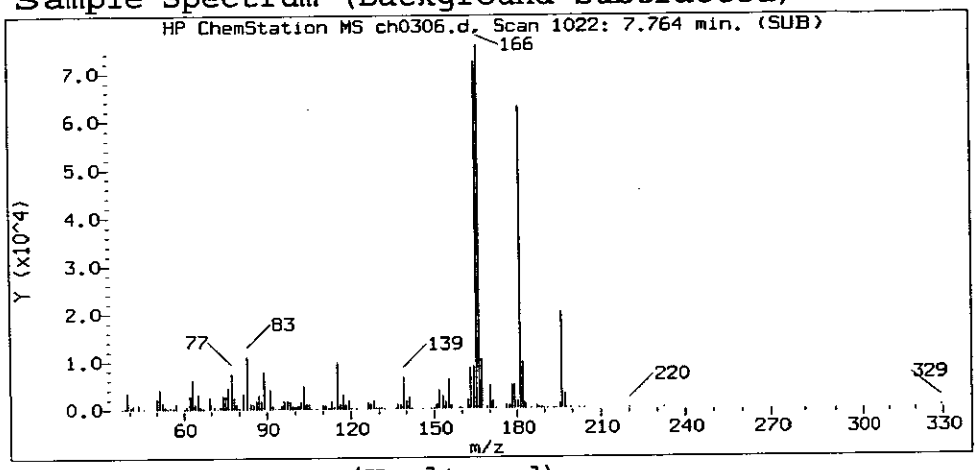
0206

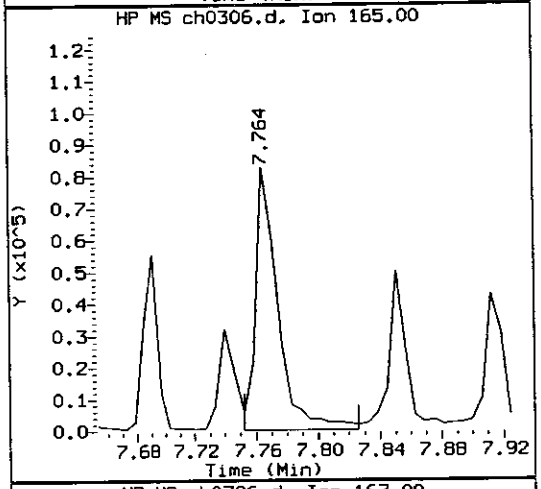
Reference Standard Spectrum for Fluorene



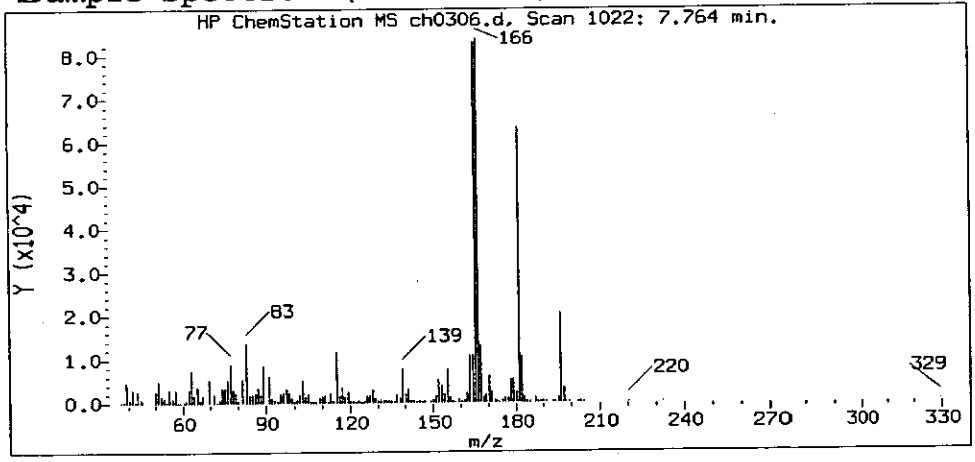


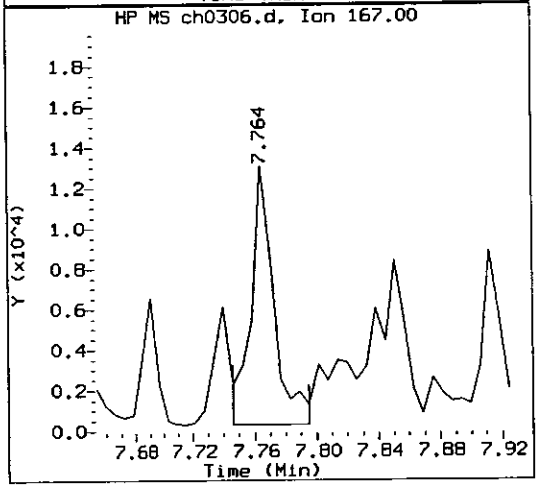
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

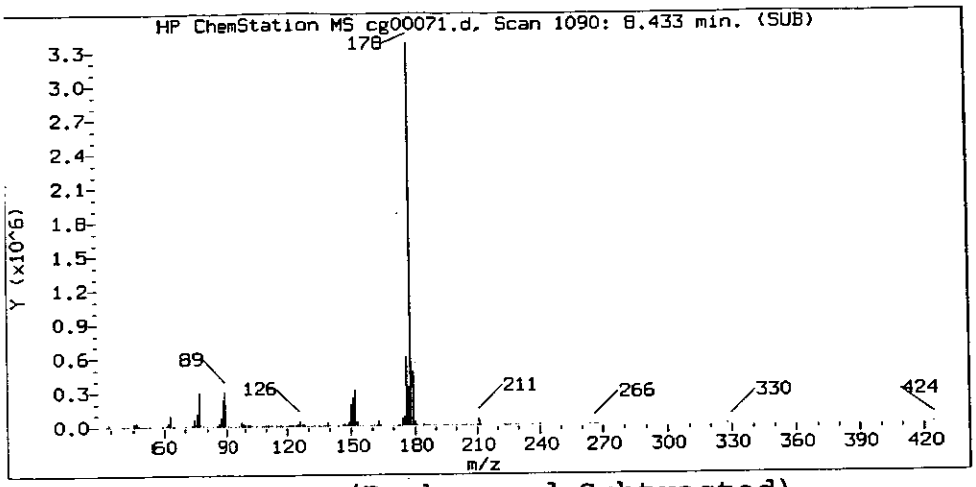
Sample Name: FD801

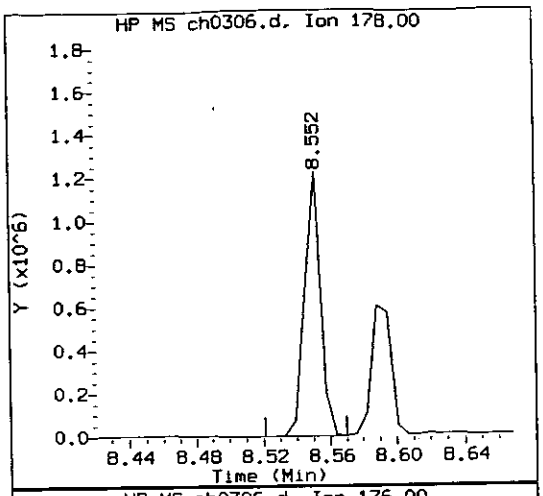
Lab Sample ID: 5118306

Compound Number	: 94
Compound Name	: Fluorene
Scan Number	: 1022
Retention Time (minutes)	: 7.764
Quant Ion	: 166.0
Area (flag)	: 72893
Concentration (ng/ul)	: 9.9005

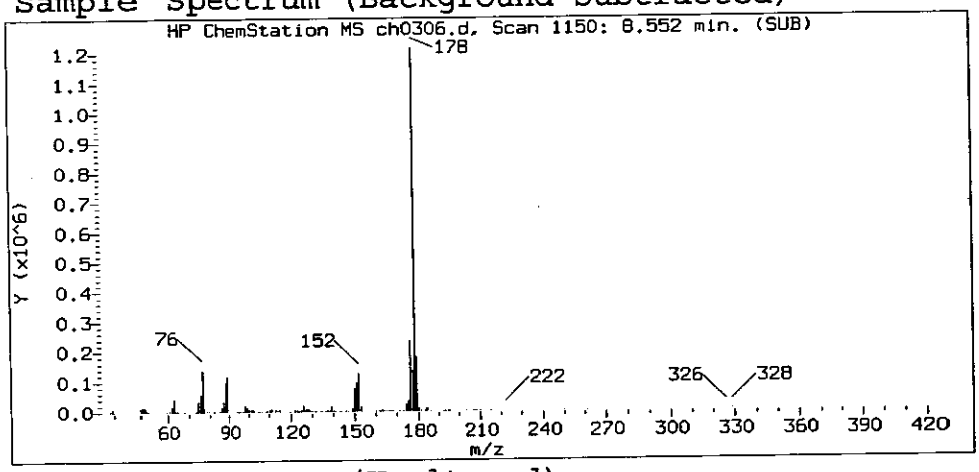
0287

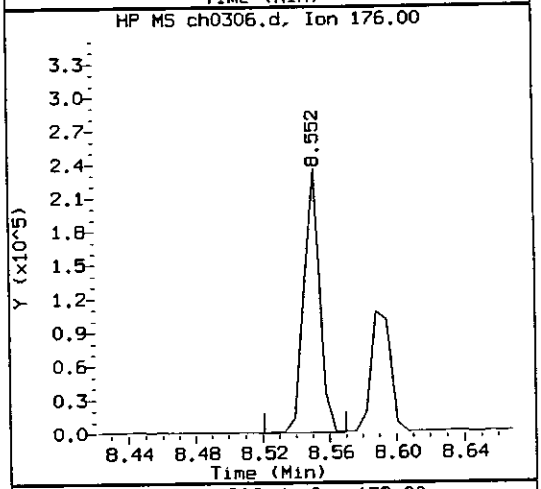
Reference Standard Spectrum for Phenanthrene



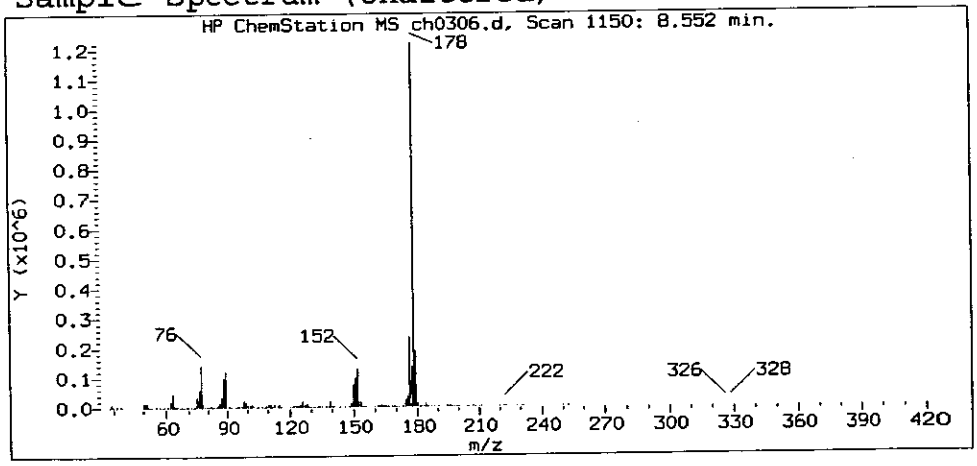


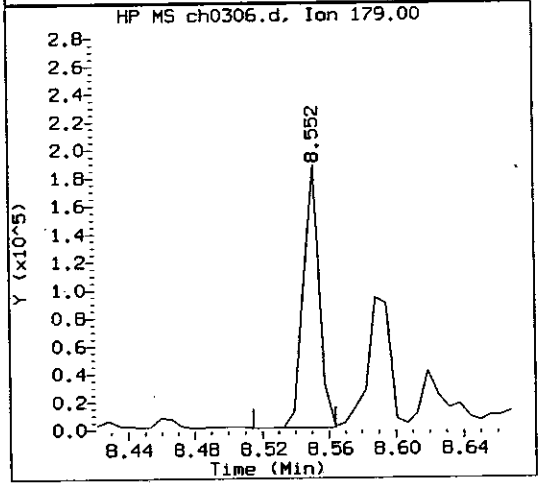
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

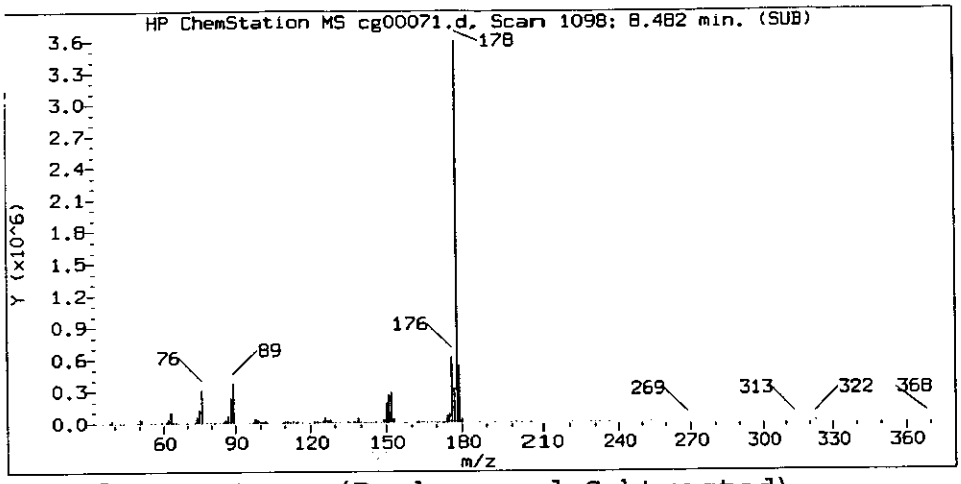
Sample Name: FD801

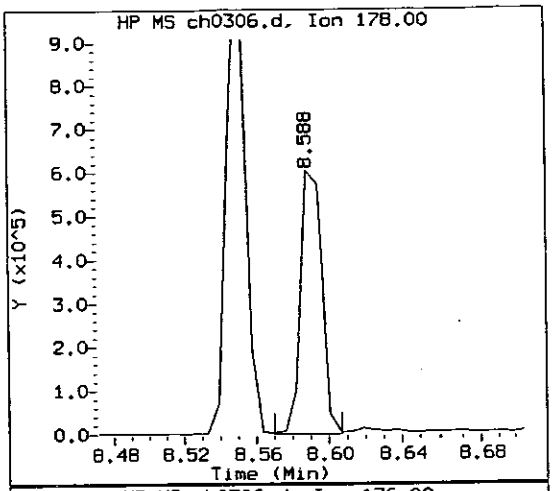
Lab Sample ID: 5118306

Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1150
Retention Time (minutes)	: 8.552
Quant Ion	: 178.0
Area (flag)	: 801636
Concentration (ng/ul)	: 80.0927

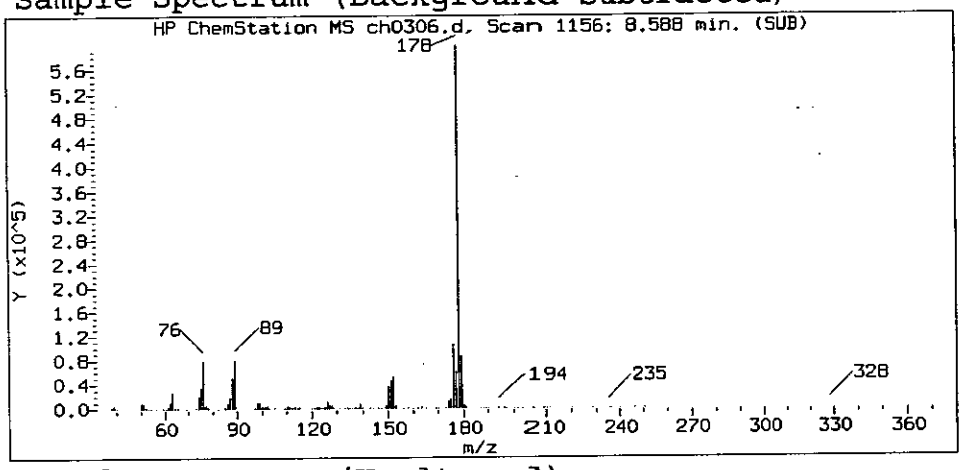
0288

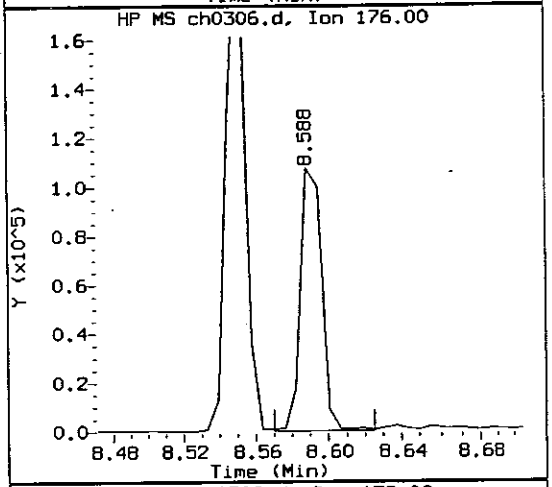
Reference Standard Spectrum for Anthracene



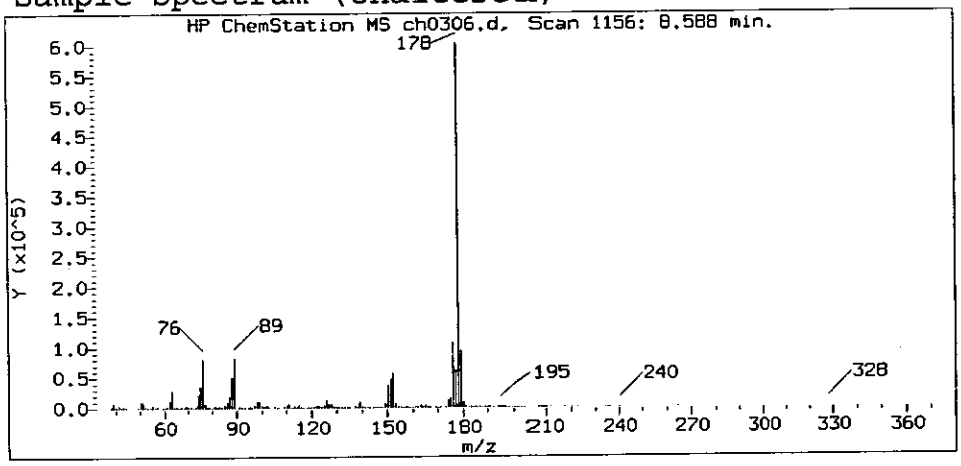


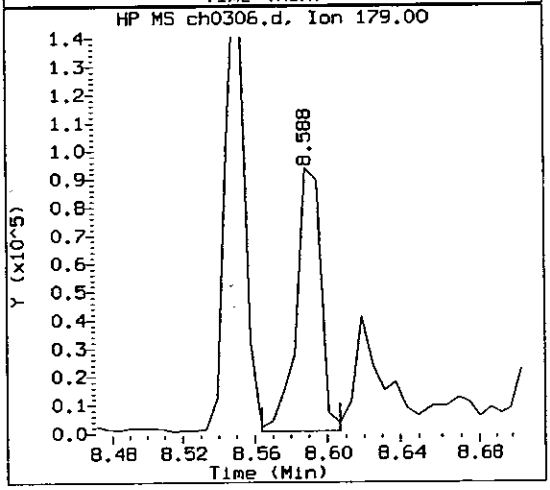
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

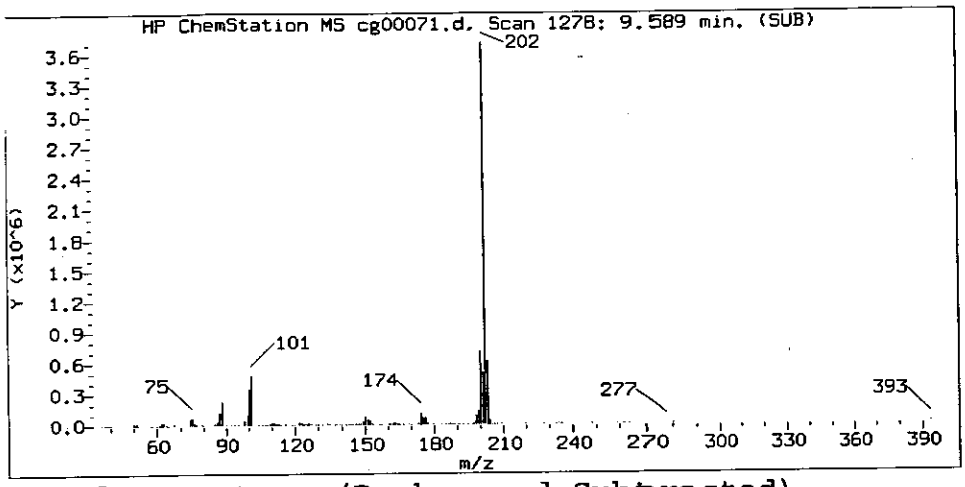
Sample Name: FD801

Lab Sample ID: 5118306

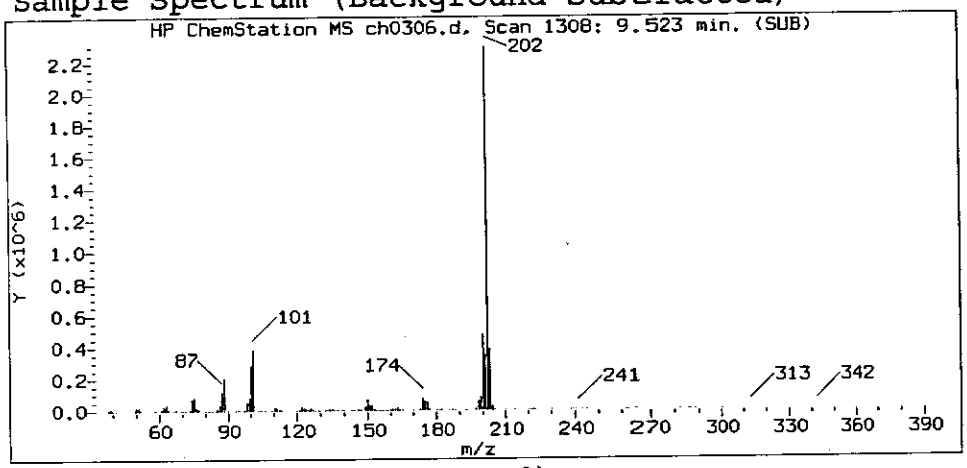
Compound Number	:	124
Compound Name	:	Anthracene
Scan Number	:	1156
Retention Time (minutes)	:	8.588
Quant Ion	:	178.0
Area (flag)	:	492988
Concentration (ng/ul)	:	47.7481

@289

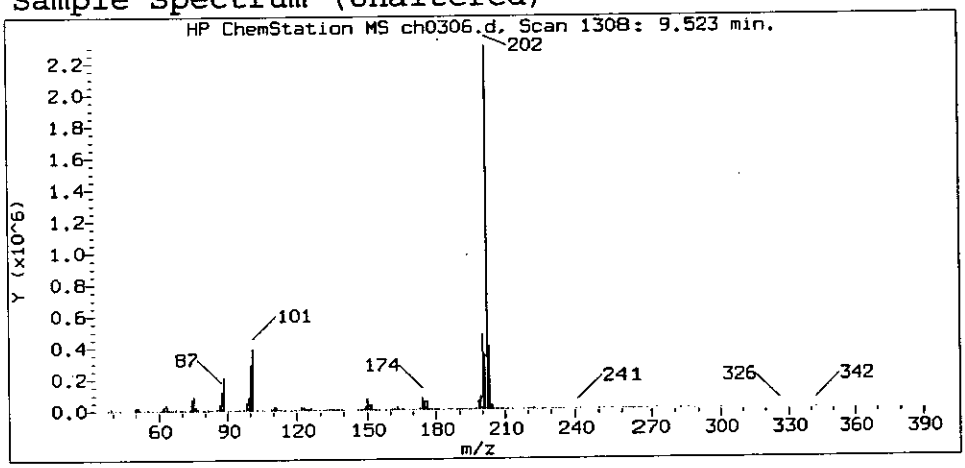
Reference Standard Spectrum for Fluoranthene

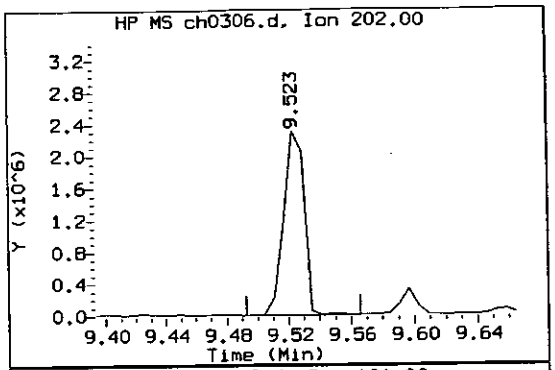


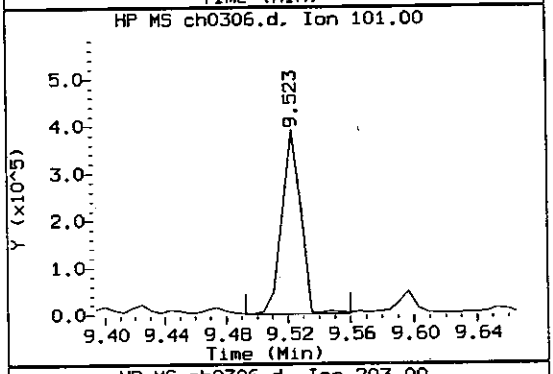
Sample Spectrum (Background Subtracted)

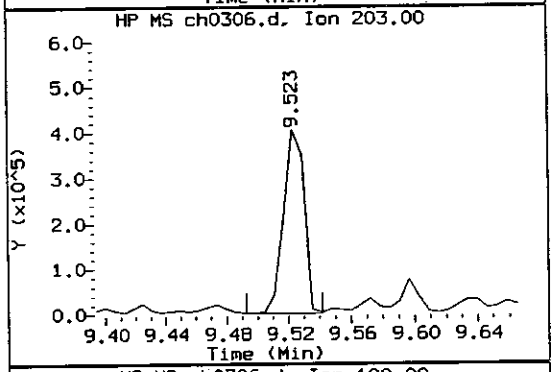


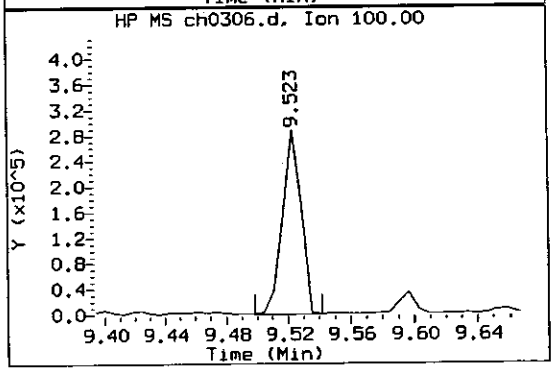
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

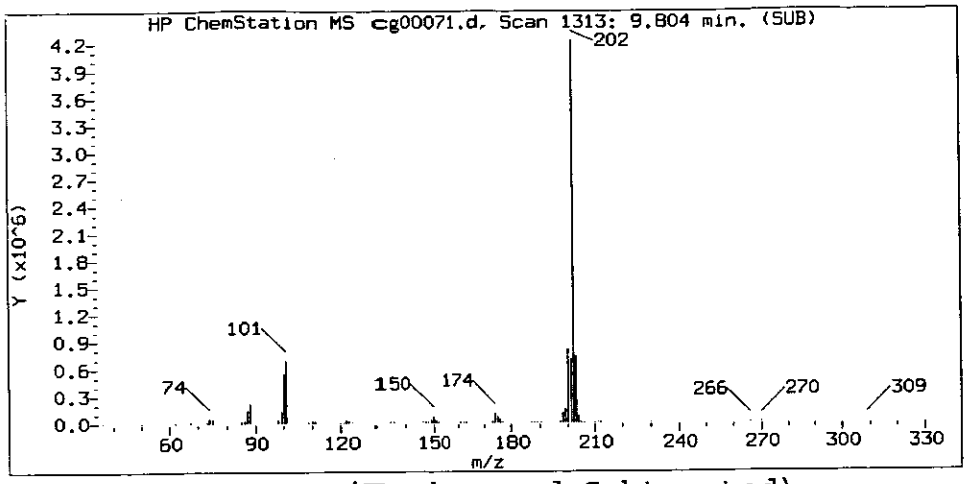
Sample Name: FD801

Lab Sample ID: 5118306

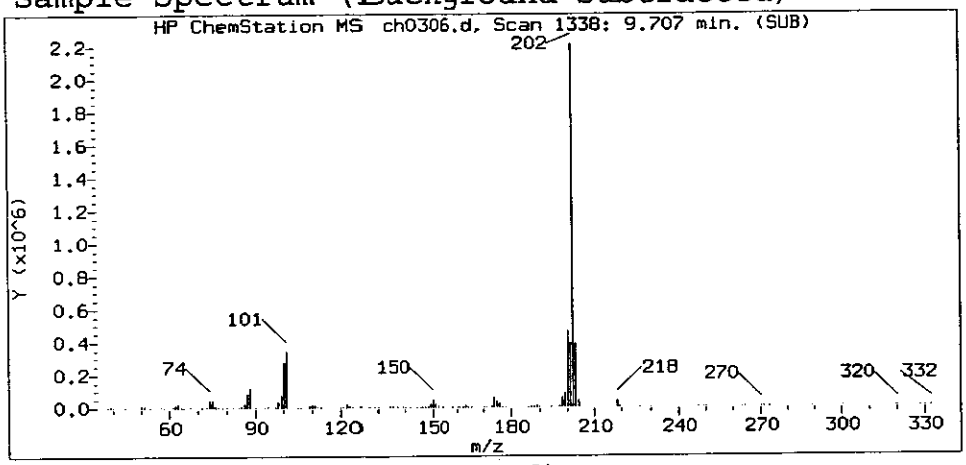
Compound Number	:	134
Compound Name	:	Fluoranthene
Scan Number	:	1308
Retention Time (minutes)	:	9.523
Quant Ion	:	202.0
Area (flag)	:	2155316
Concentration (ng/ul)	:	192.2026

0210

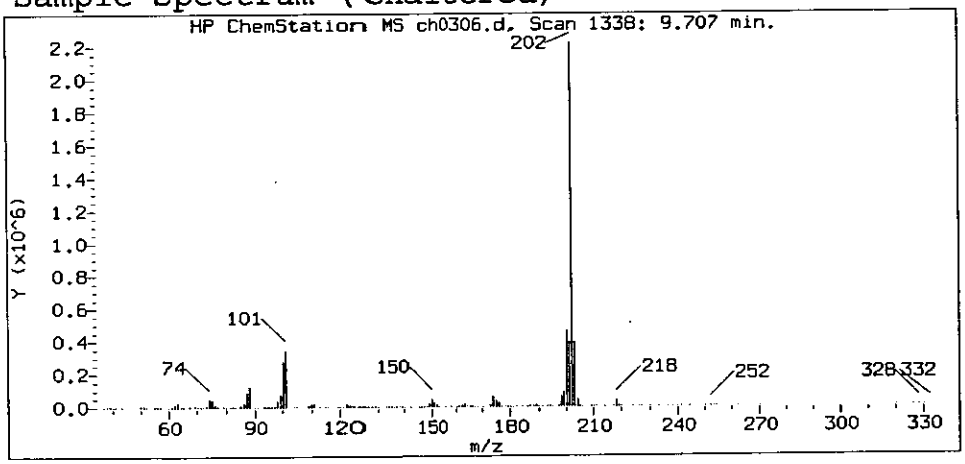
Reference Standard Spectrum for Pyrene

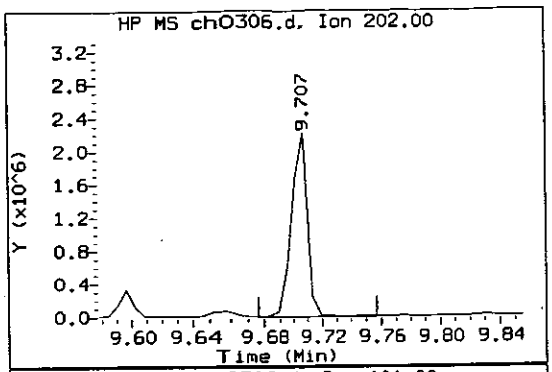


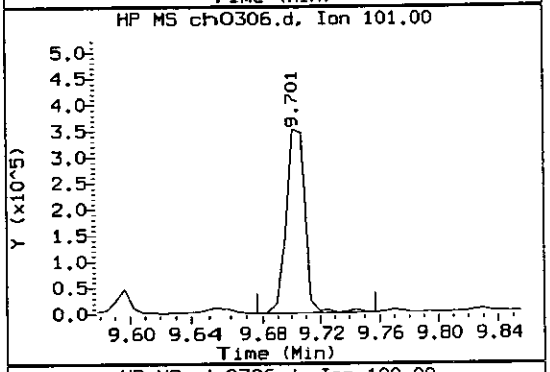
Sample Spectrum (Background Subtracted)

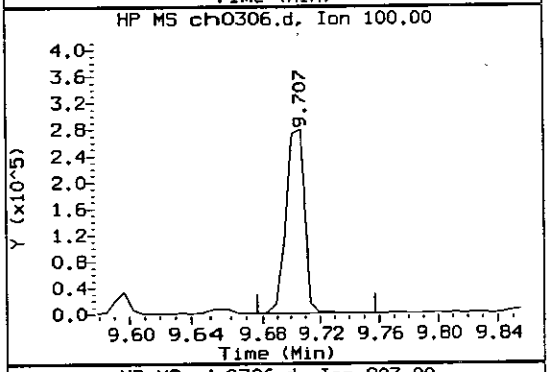


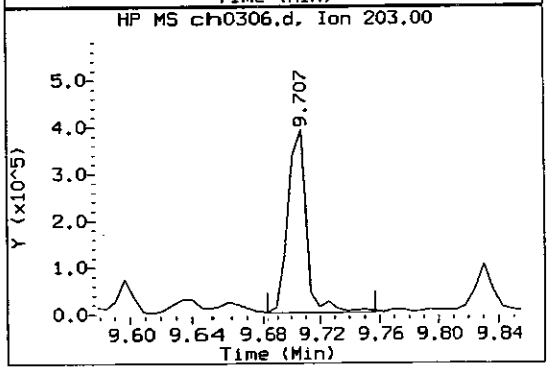
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

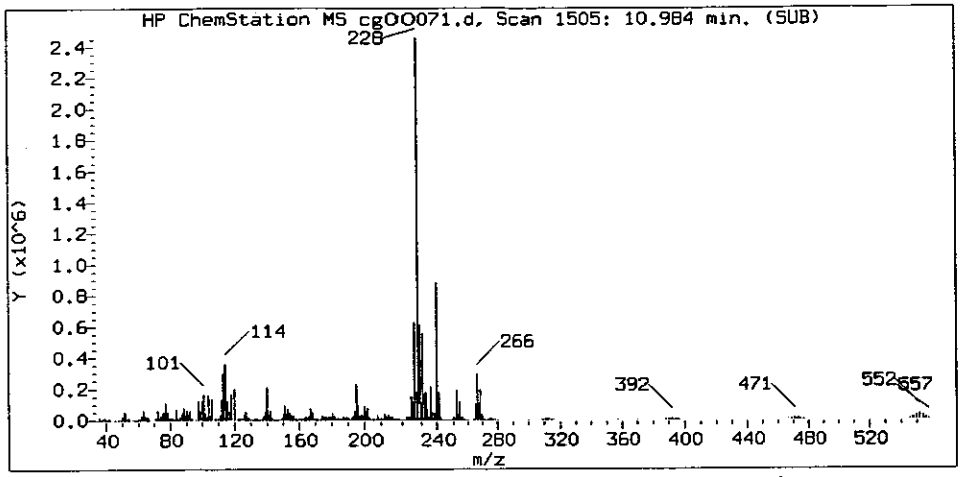
Sample Name: FD801

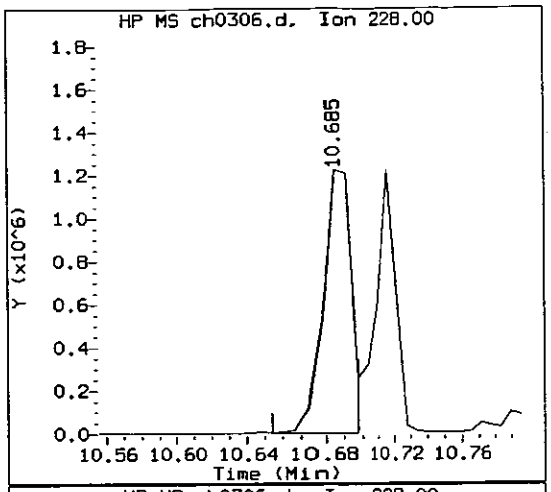
Lab Sample ID: 5118306

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1338
Retention Time (minutes)	: 9.707
Quant Ion	: 202.0
Area (flag)	: 1795128
Concentration (ng/ul)	: 214.1394

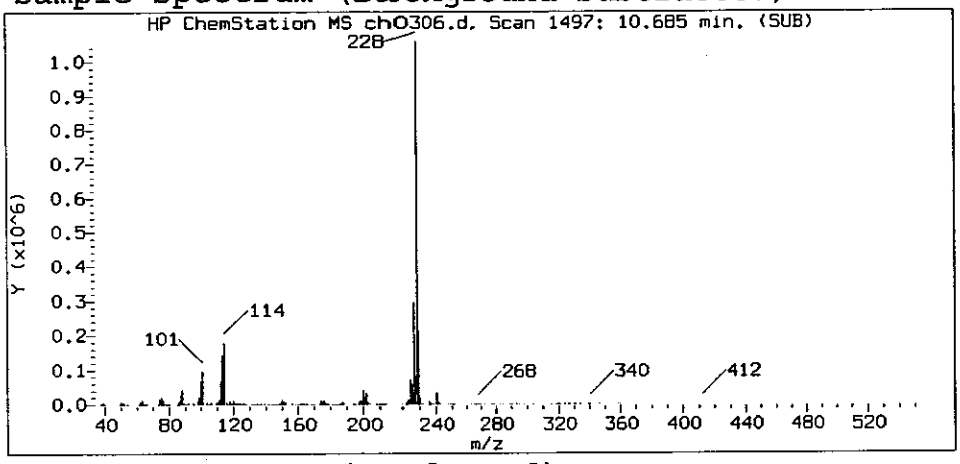
0211

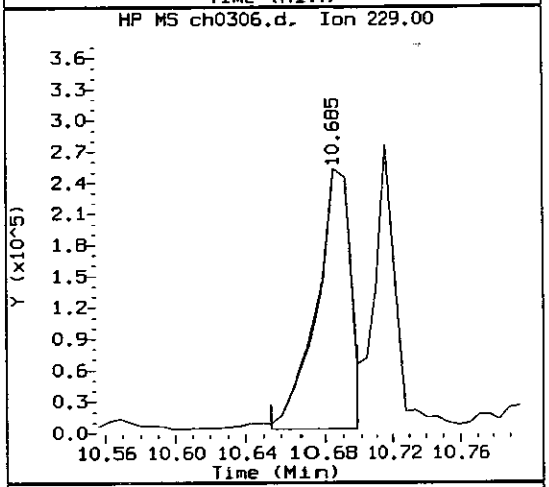
Reference Standard Spectrum for Benzo(a)anthracene



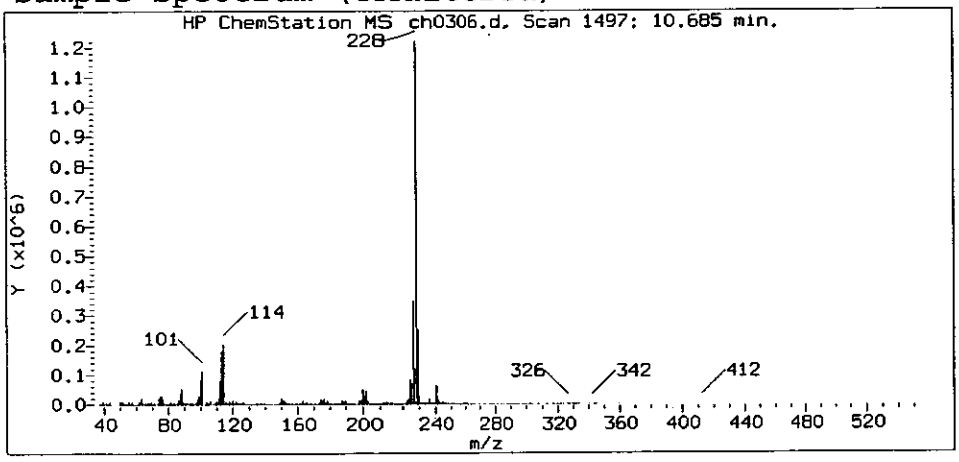


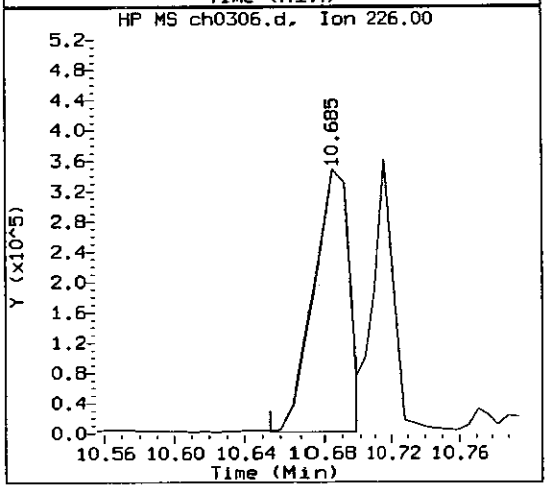
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

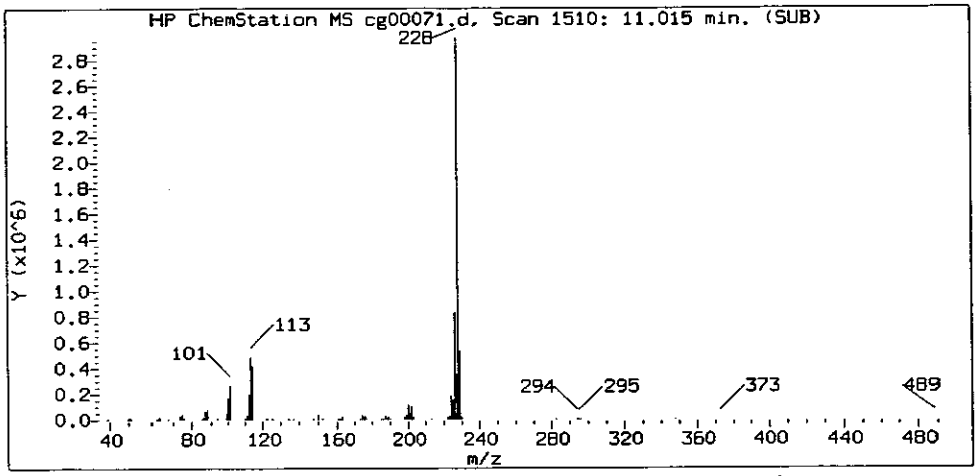
Sample Name: FD801

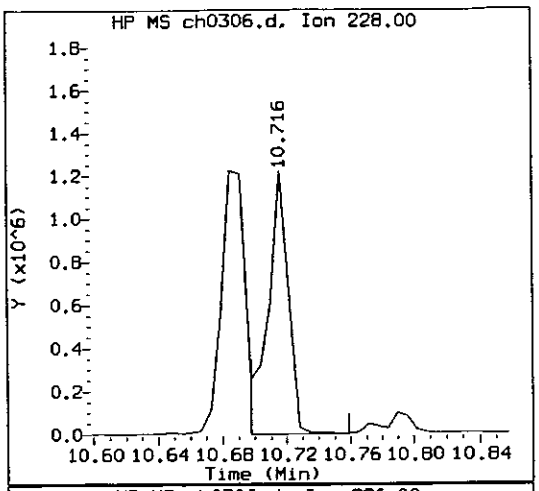
Lab Sample ID: 5118306

Compound Number	: 146
Compound Name	: Benzo(a)anthracene
Scan Number	: 1497
Retention Time (minutes)	: 10.685
Quant Ion	: 228.0
Area (flag)	: 1196602
Concentration (ng/ul)	: 157.9800

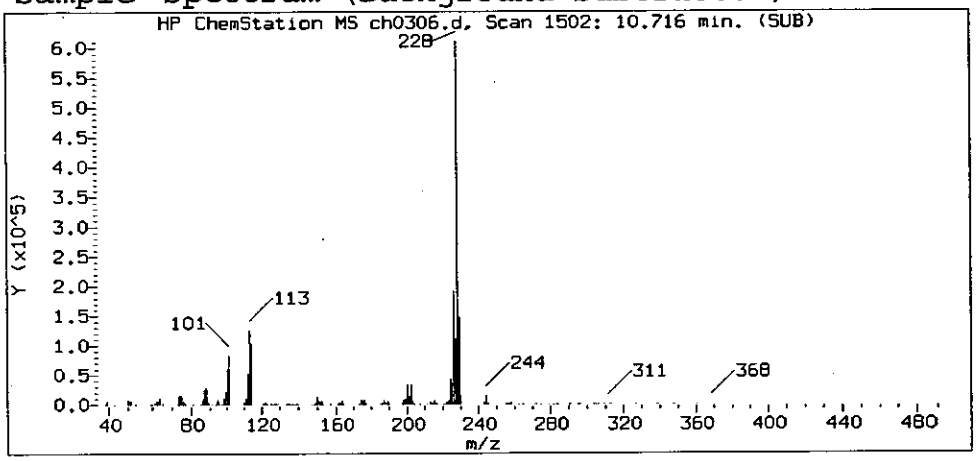
0212

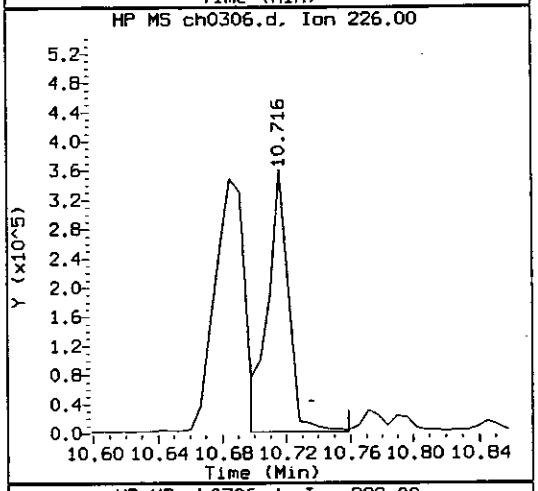
Reference Standard Spectrum for Chrysene



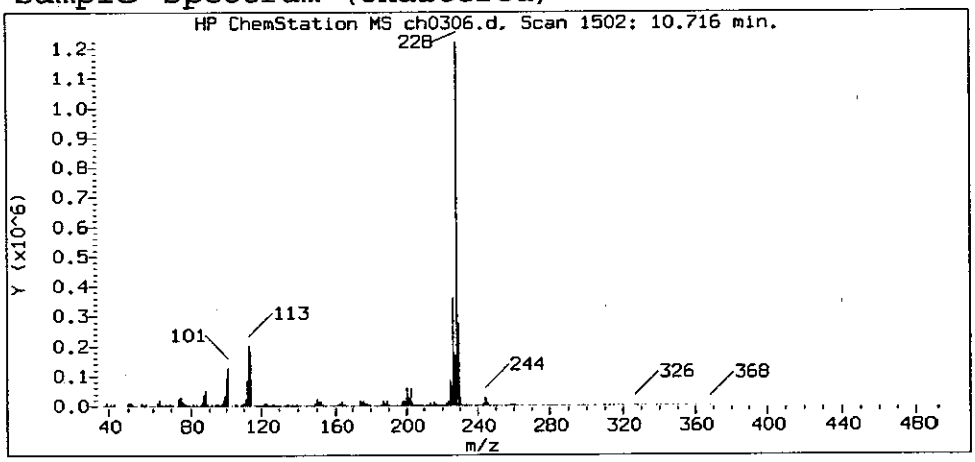


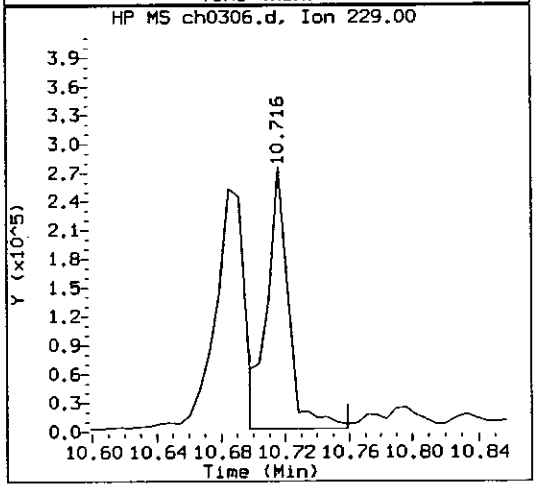
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

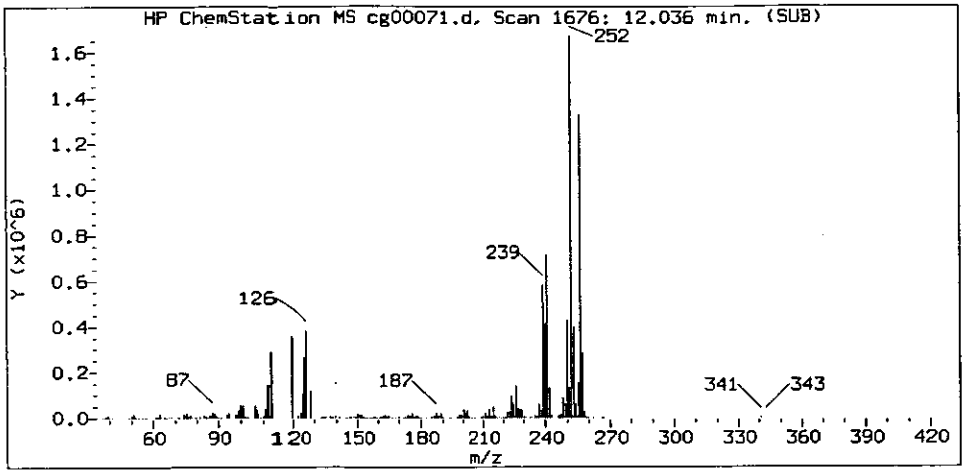
Sample Name: FD801

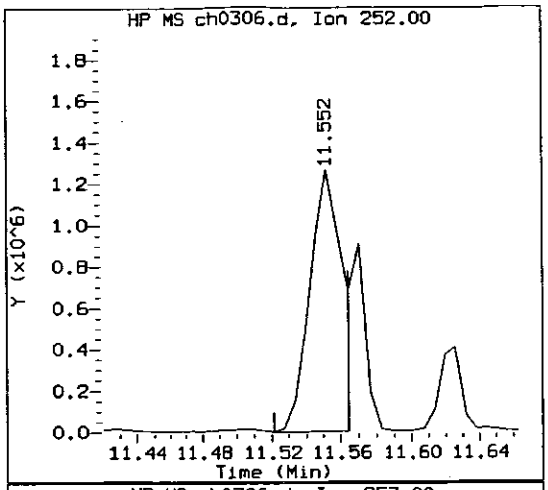
Lab Sample ID: 5118306

Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1502
Retention Time (minutes)	: 10.716
Quant Ion	: 228.0
Area (flag)	: 1094358
Concentration (ng/ul)	: 146.4057

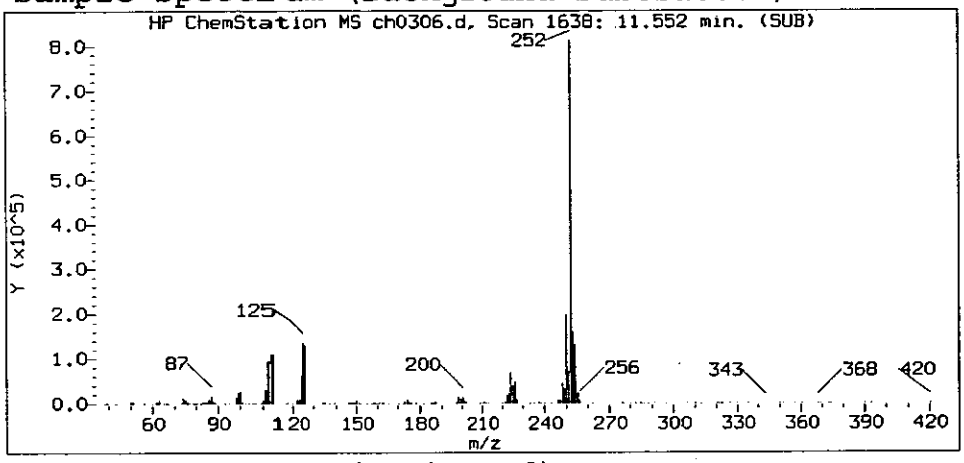
0213

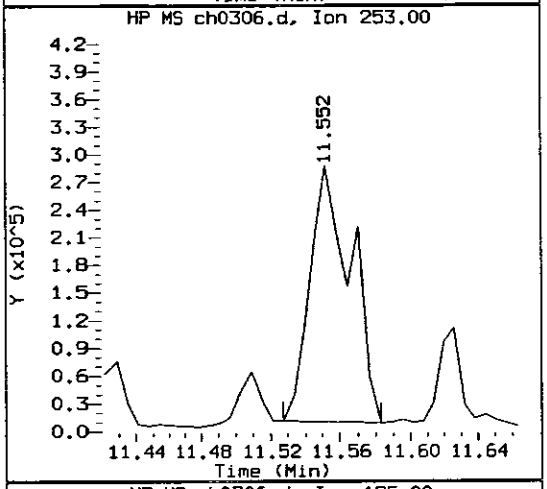
Reference Standard Spectrum for Benzo(b)fluoranthene



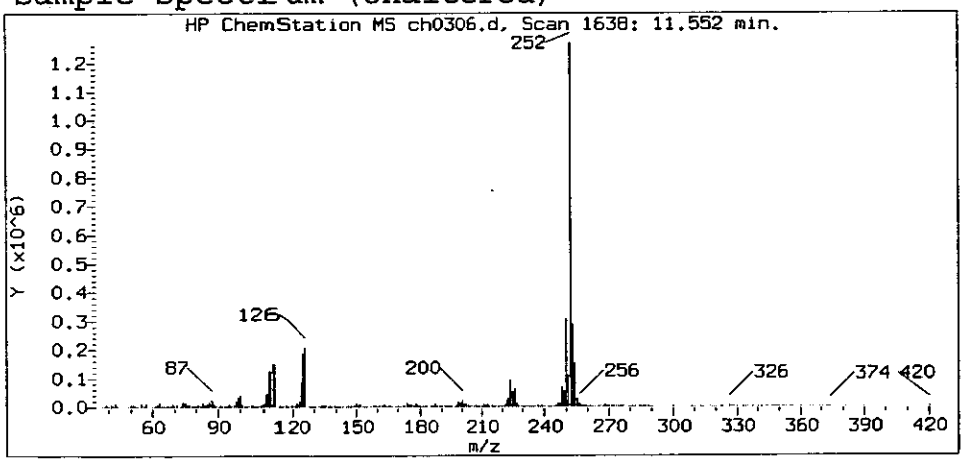


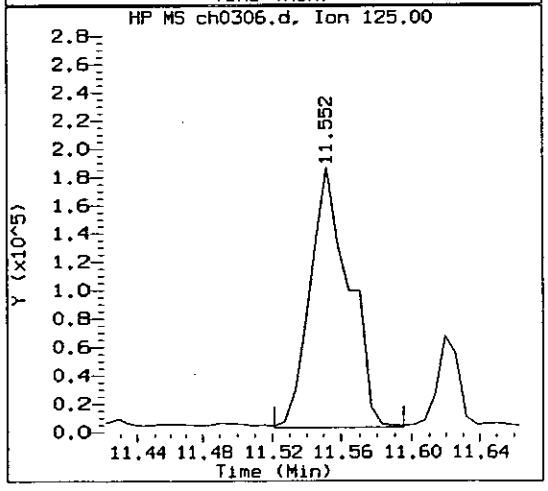
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

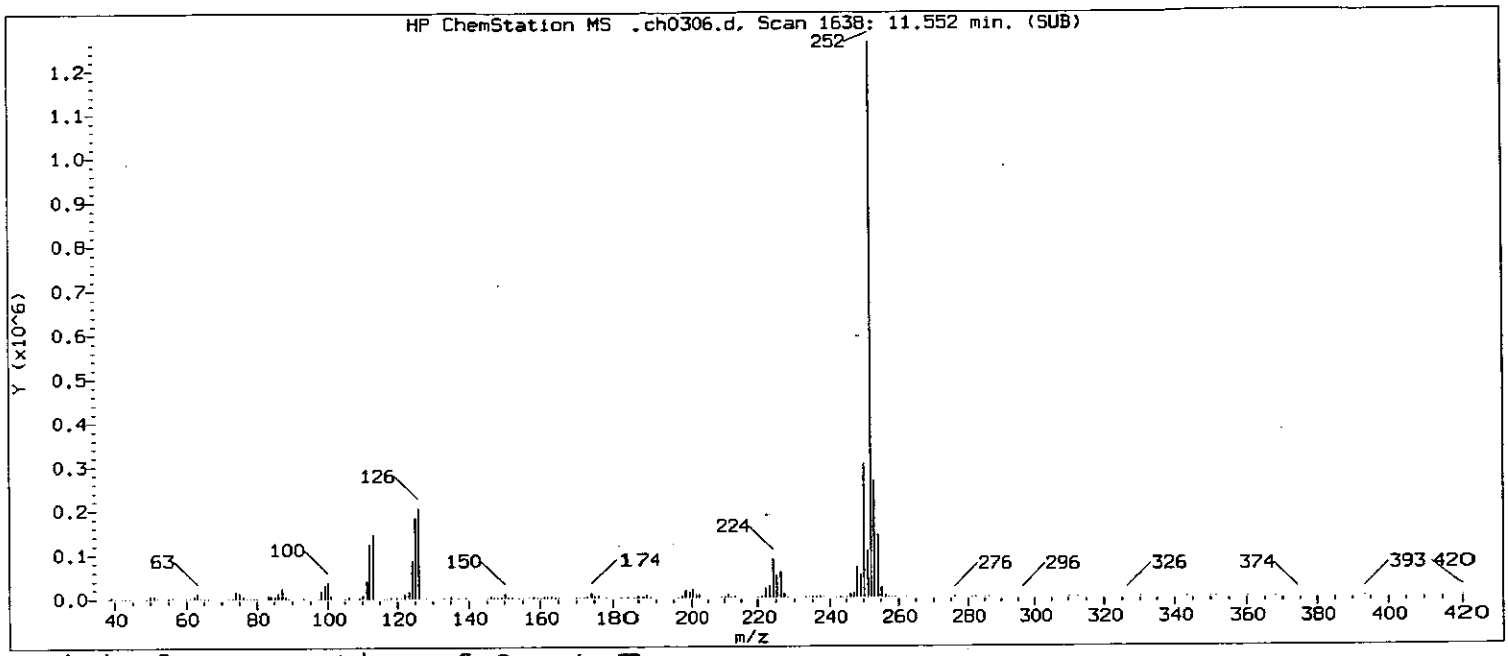
Sample Name: FD801

Lab Sample ID: 5118306

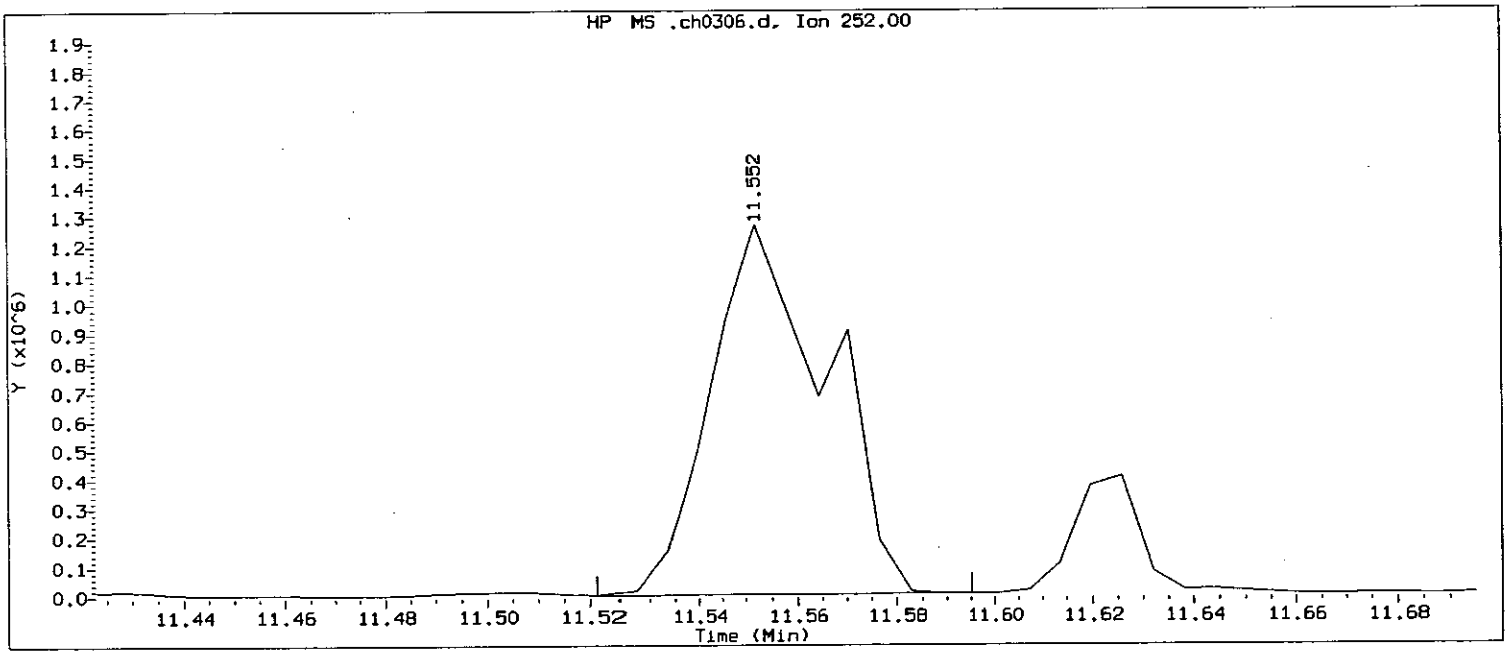
Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1638
Retention Time (minutes): 11.552
Quant Ion : 252.0
Area (flag) : 1666564 M
Concentration (ng/ul) : 210.1831

0214

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 23:03 Automation

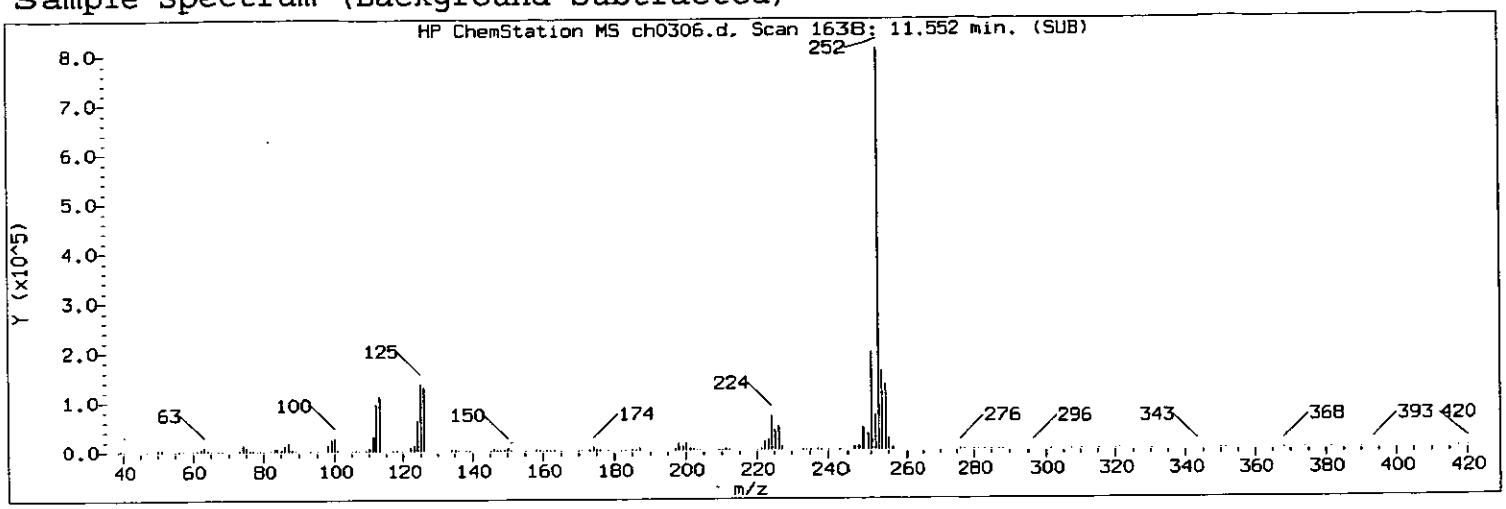
Sample Name: FD801 Lab Sample ID: 5118306

Compound Number	:	158	
Compound Name	:	Benzo(b)fluoranthene	
Scan Number	:	1638	
Retention Time (minutes)	:	11.552	
Quant Ion	:	252	
Area	:	2073528	
Concentration (ng/ul)	:	226.4191	
Integration start scan	:	1632	Integration stop scan: 1644
Y at integration start	:	4410	Y at integration end: 8253

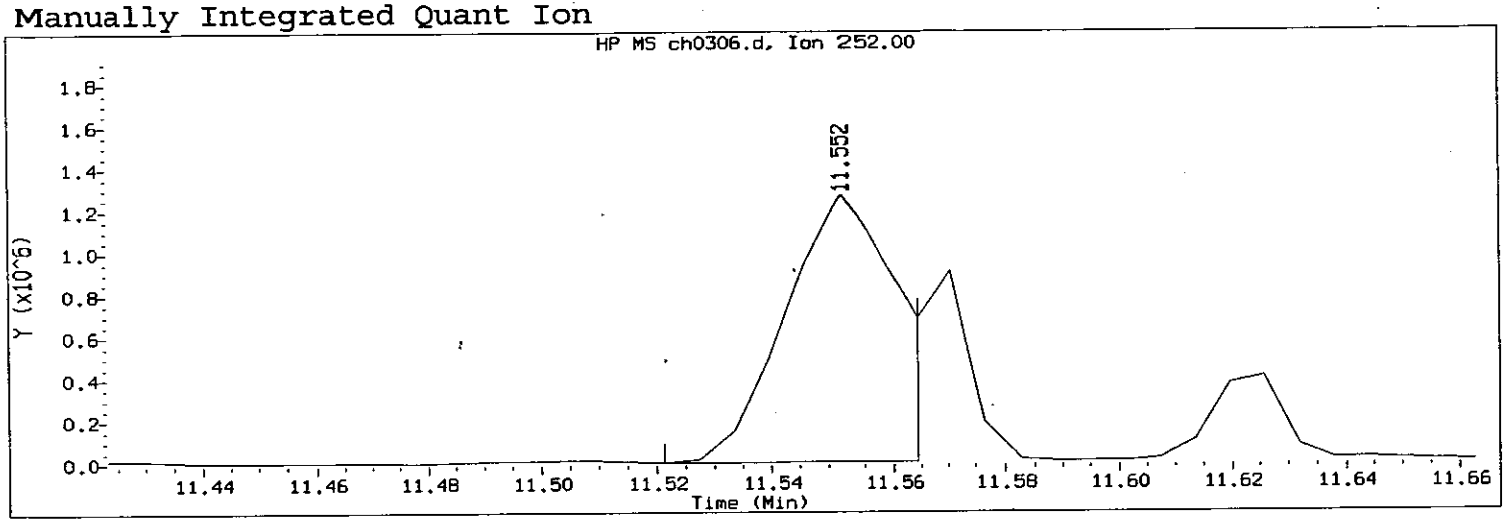
BGM 8/10/07 0215

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

Compound Number : 158
Compound Name : Benzo(b)fluoranthene
Scan Number : 1638
Retention Time (minutes): 11.552
Quant Ion : 252
Area (flag) : 1666564 M
Concentration (ng/ul) : 210.1831
Integration start scan : 1632 Integration stop scan: 1639
Y at integration start : 4410 Y at integration end: 6651

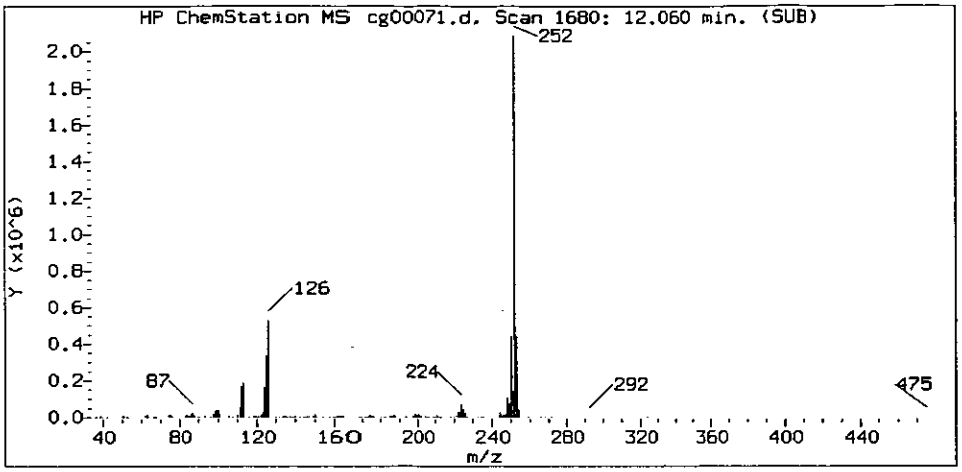
Reason for manual integration (circle one): missed peak improper integrati

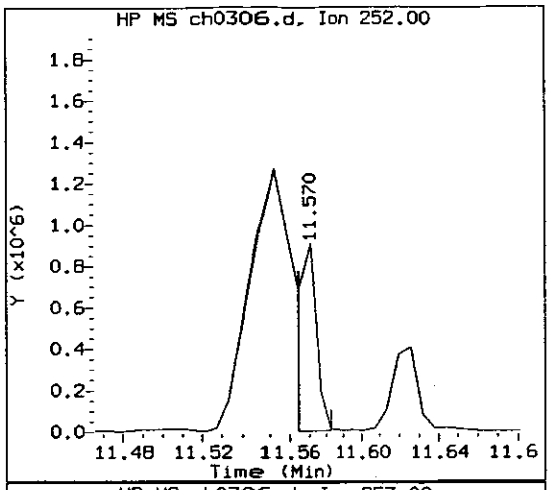
Analyst responsible for change: _____

8216

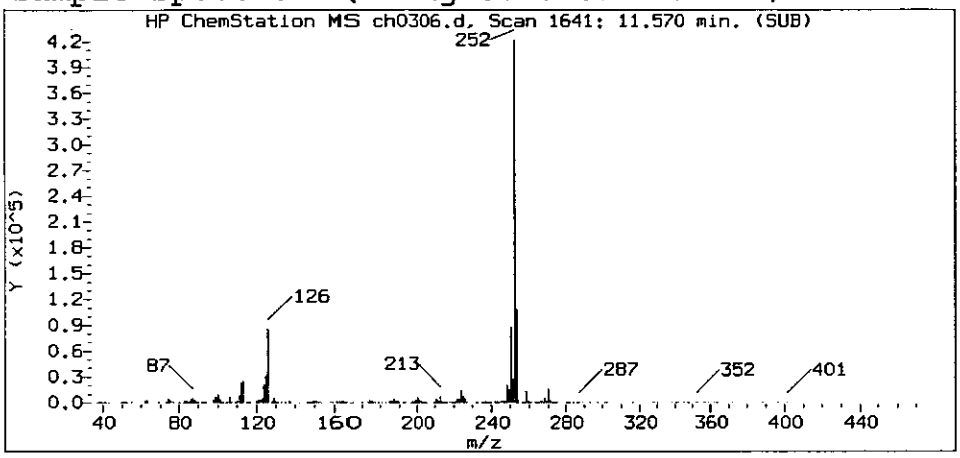
GC/MS audit/management approval: _____

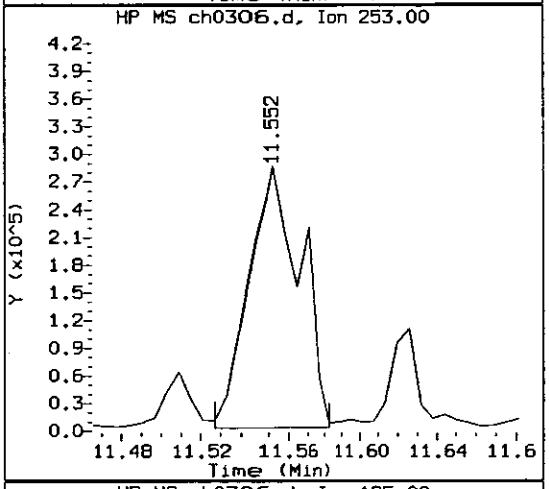
Reference Standard Spectrum for Benzo(k)fluoranthene



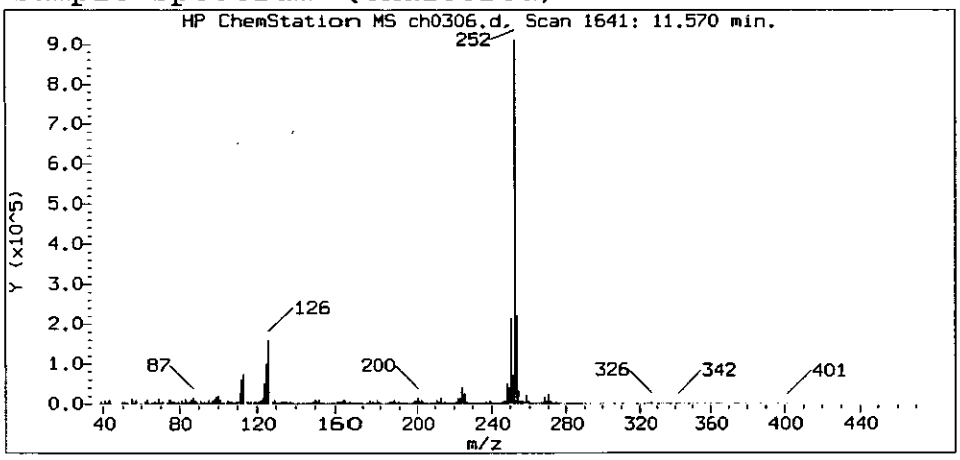


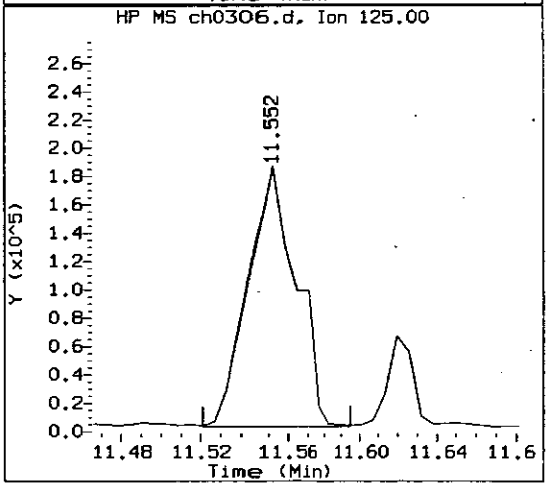
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

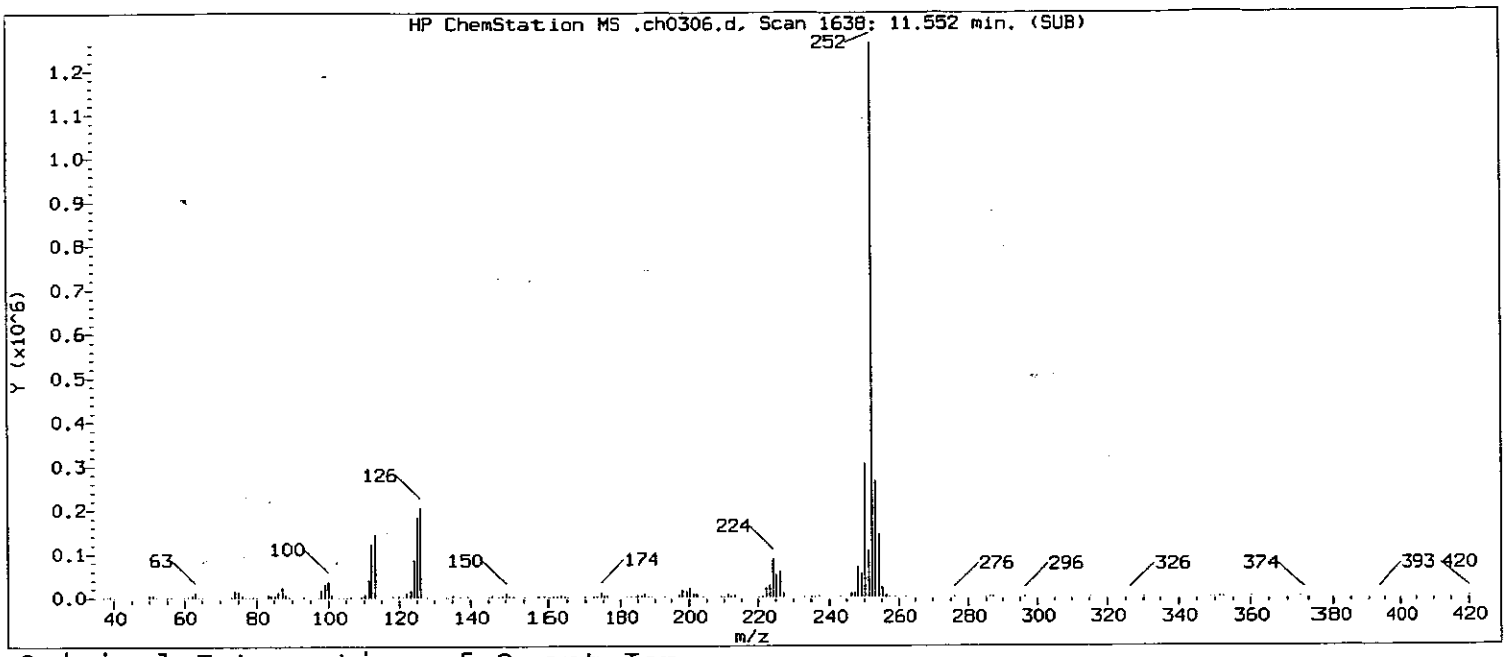
Sample Name: FD801

Lab Sample ID: 5118306

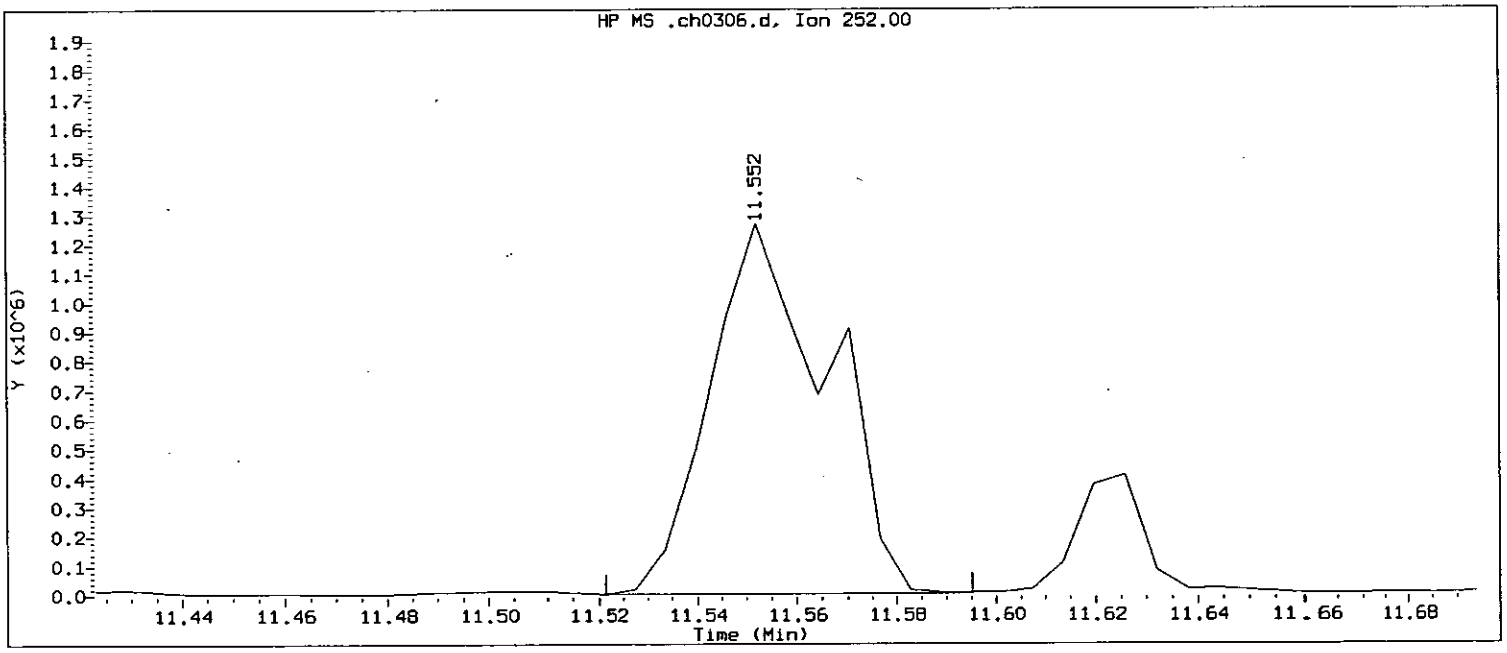
Compound Number	: 159
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1641
Retention Time (minutes)	: 11.570
Quant Ion	: 252.0
Area (flag)	: 660077 M
Concentration (ng/ul)	: 74.0750

8217

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

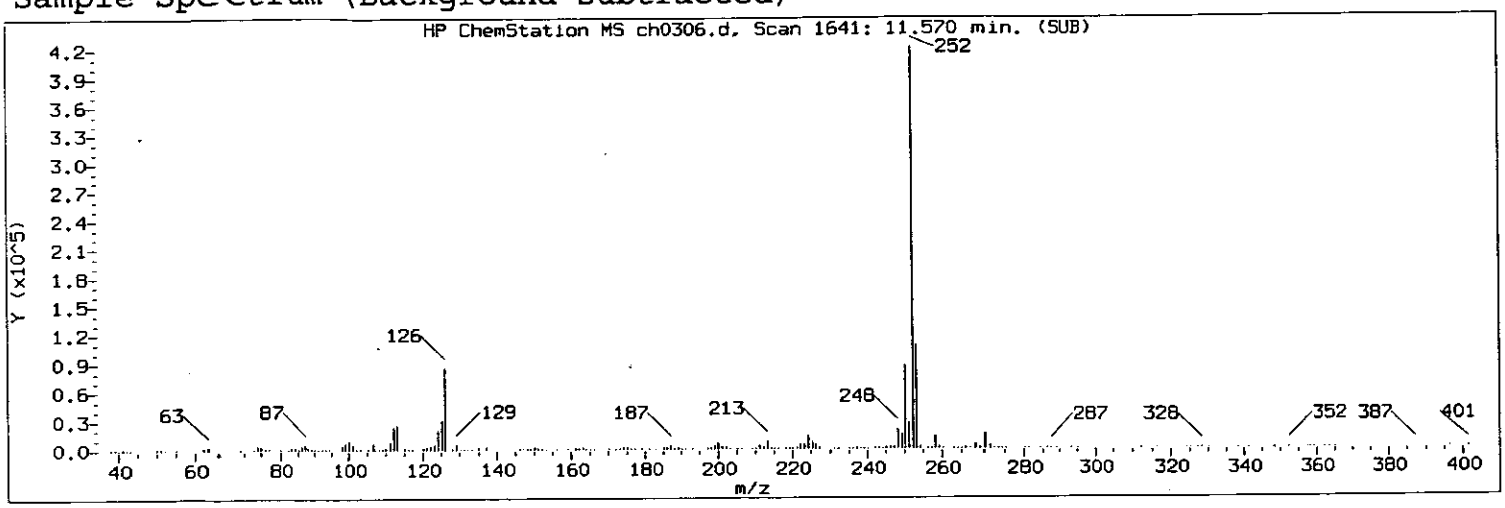
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 23:03 Automation

Sample Name: FD801 Lab Sample ID: 5118306

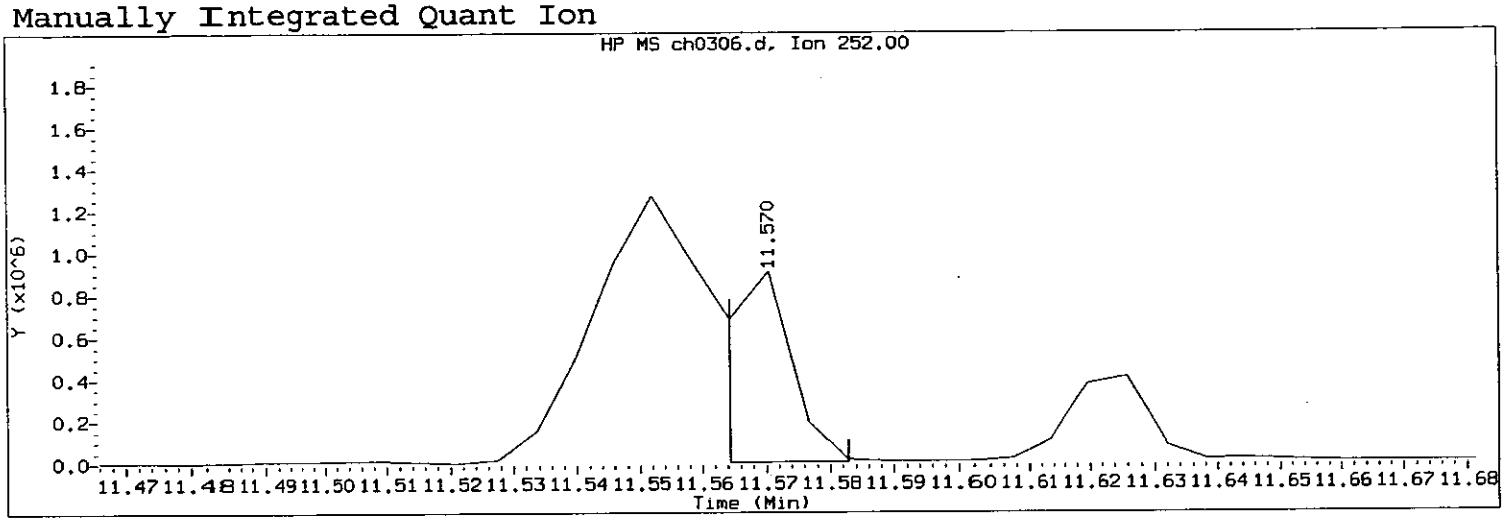
Compound Number	:	159
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1638
Retention Time (minutes)	:	11.552
Quant Ion	:	252
Area	:	2082683
Concentration (ng/ul)	:	202.3615
Integration start scan	:	1632
Integration stop scan	:	1644
Y at integration start	:	4096
Y at integration end	:	4462

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File : /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

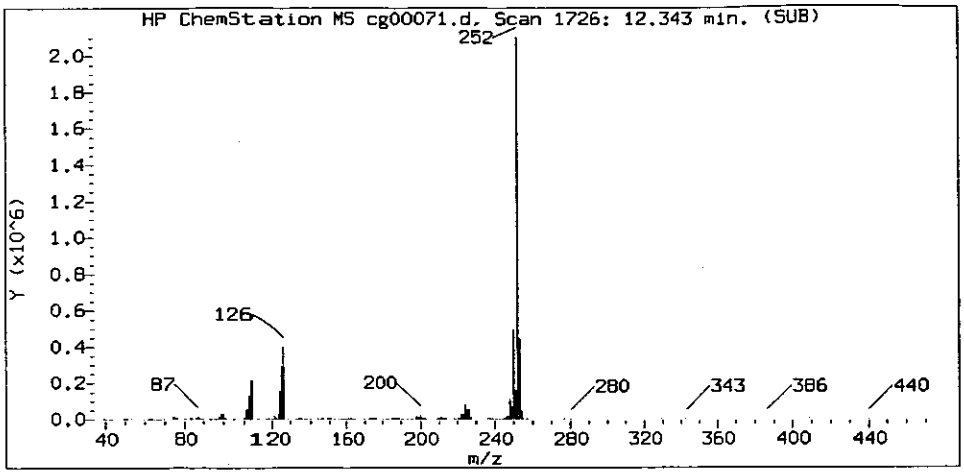
Compound Number	: 159		
Compound Name	: Benzo(k)fluoranthene		
Scan Number	: 1641		
Retention Time (minutes)	: 11.570		
Quant Ion	: 252		
Area (flag)	: 660077	M	
Concentration (ng/ul)	: 74.0750		
Integration start scan	: 1639	Integration stop scan:	1642
Y at integration start	: 5336	Y at integration end:	5336

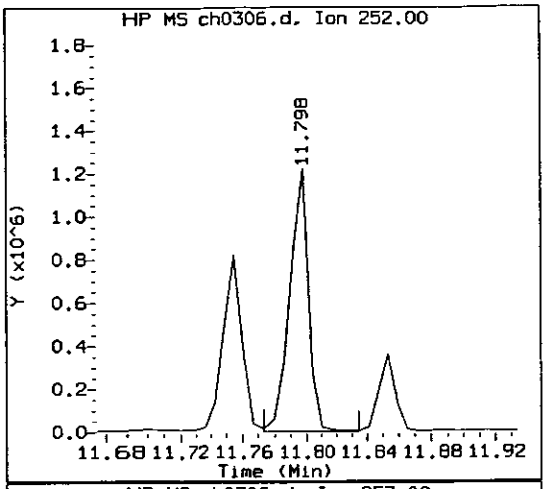
Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8219

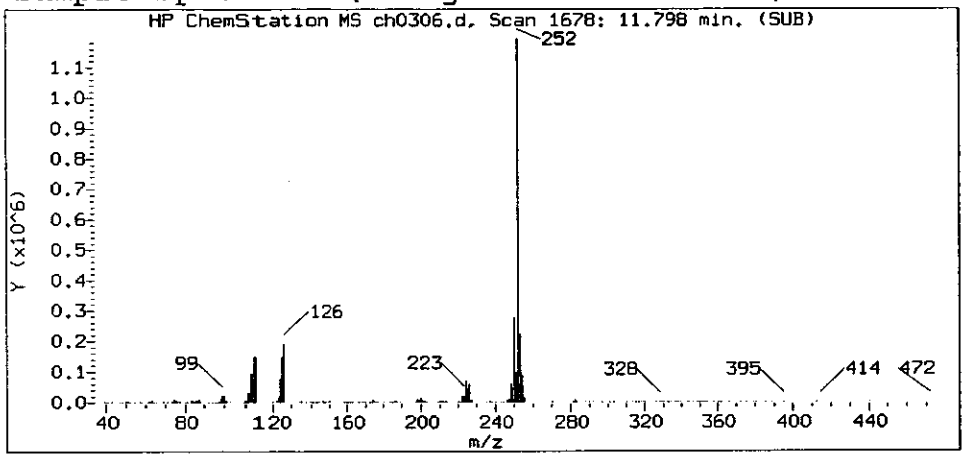
GC/MS audit/management approval: _____

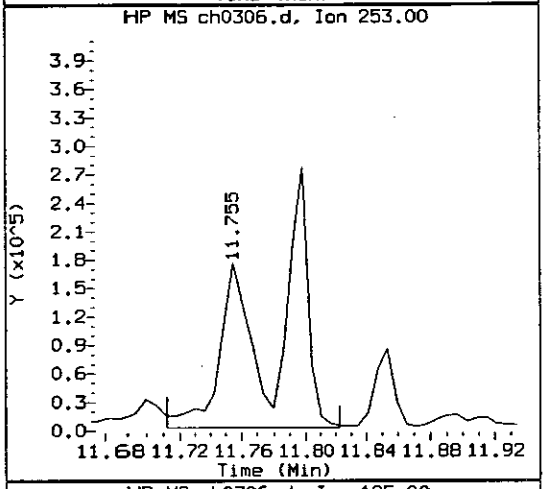
Reference Standard Spectrum for Benzo(a)pyrene



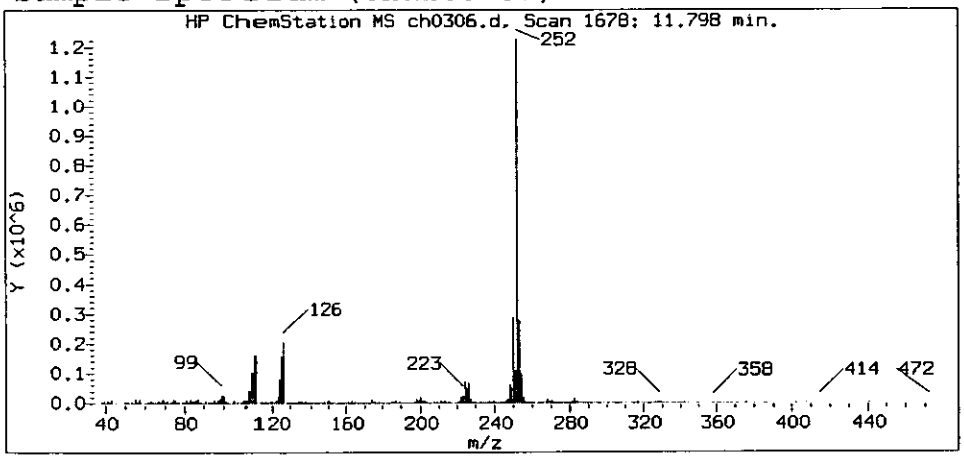


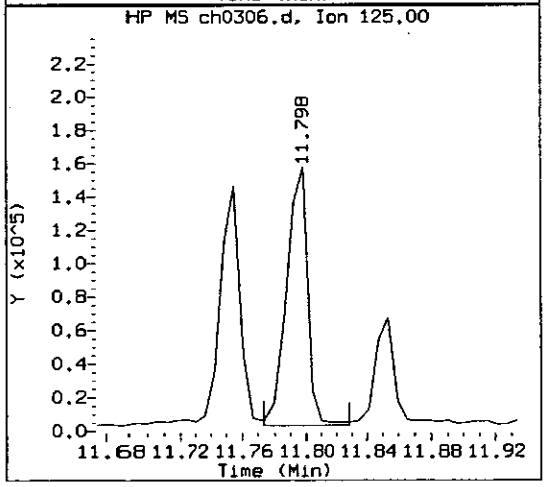
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

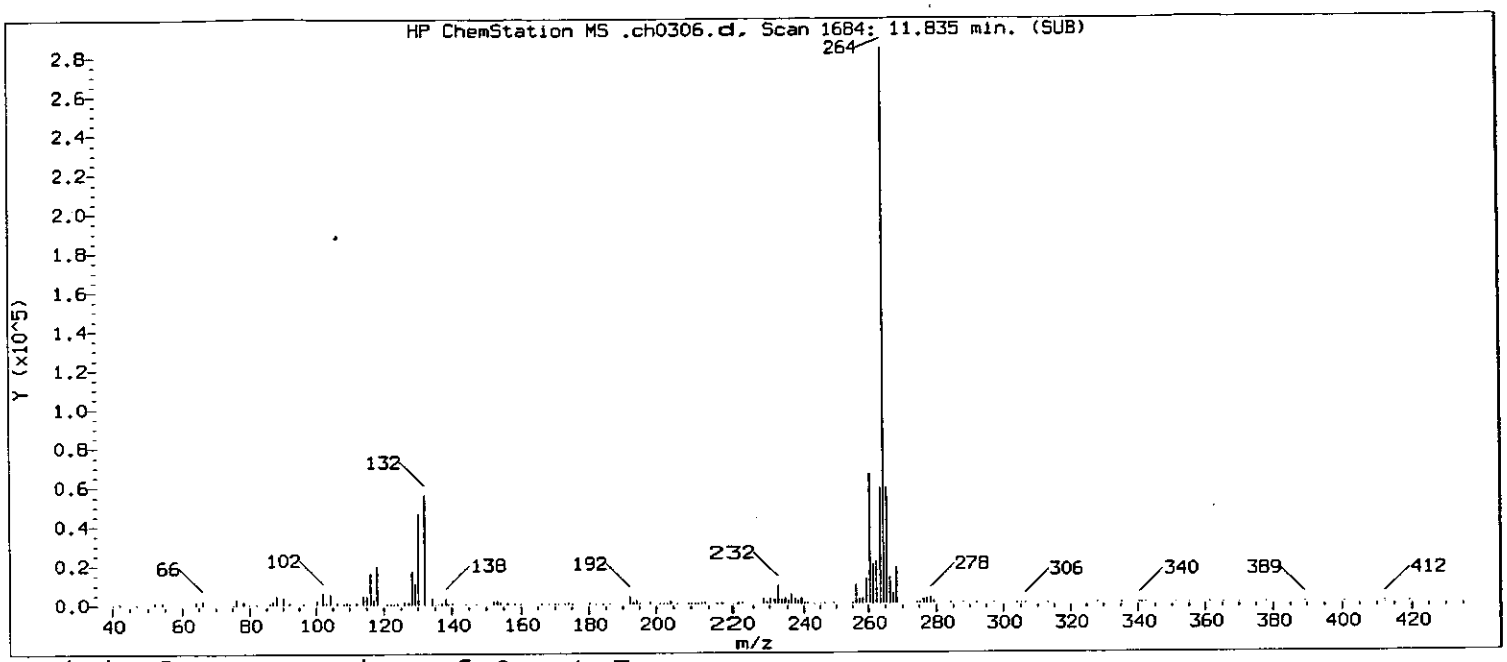
Sample Name: FD801

Lab Sample ID: 5118306

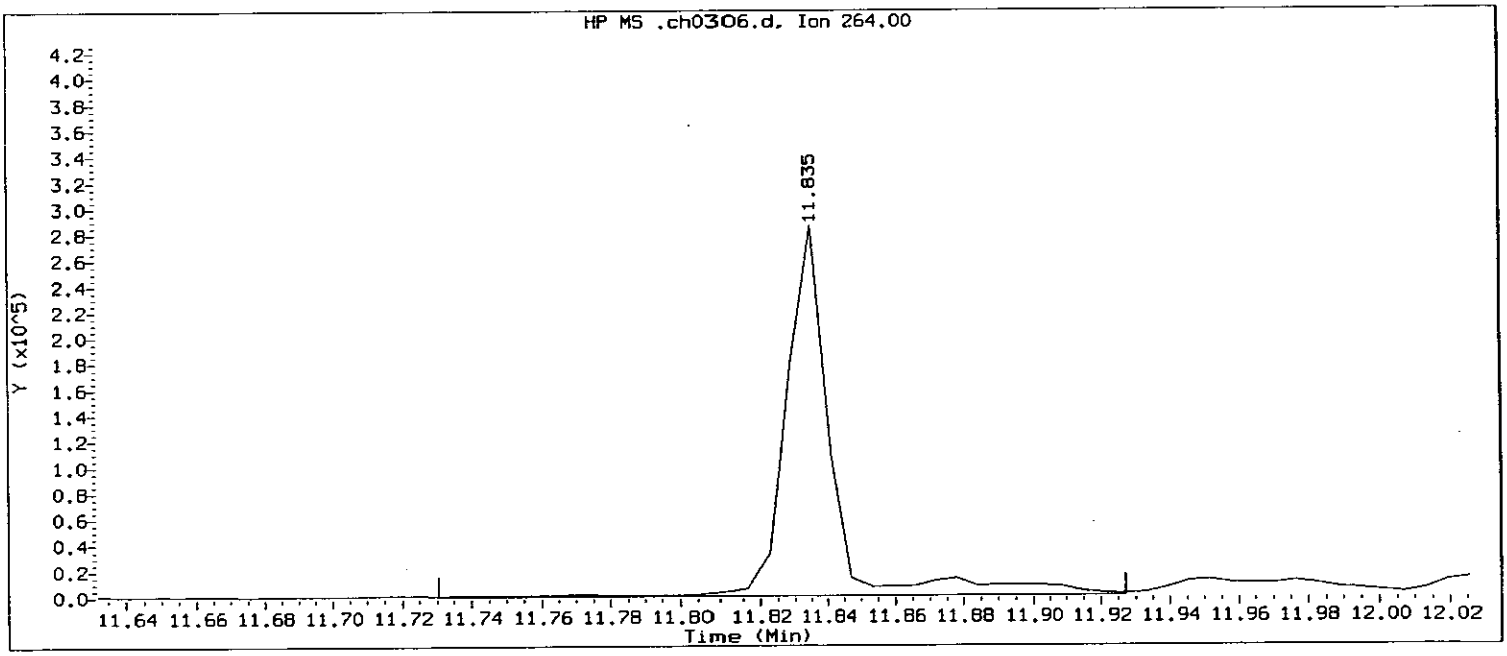
Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1678
Retention Time (minutes)	: 11.798
Quant Ion	: 252.0
Area (flag)	: 1022775
Concentration (ng/ul)	: 131.2623

0220

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 23:03 Automation

Sample Name: FD801 Lab Sample ID: 5118306

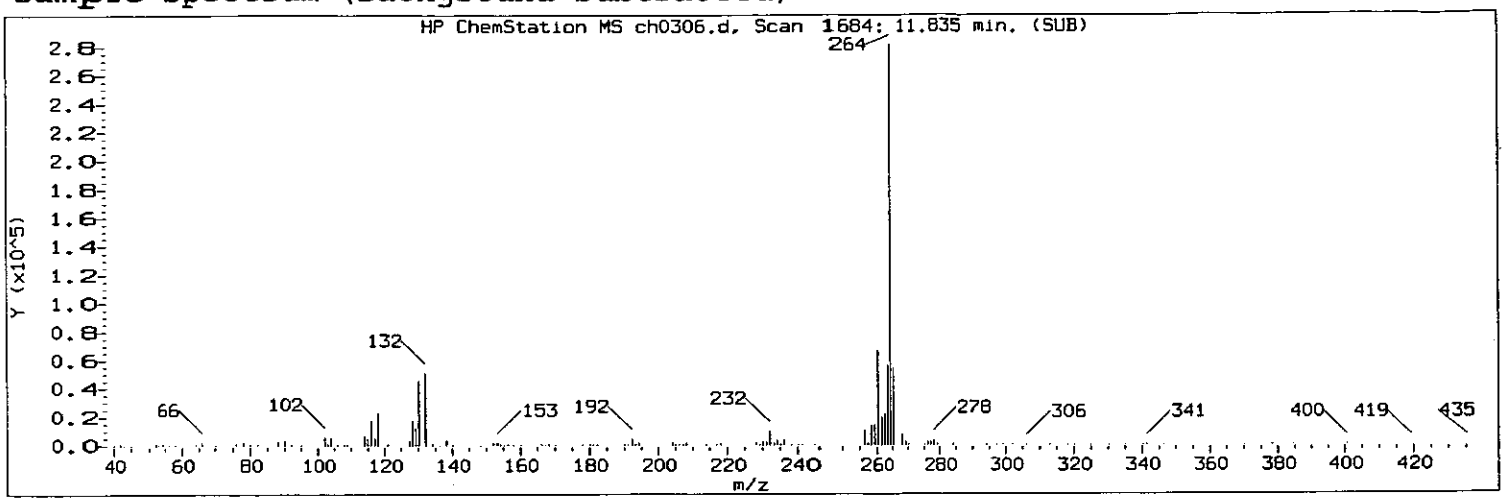
Compound Number	:	161
Compound Name	:	Perylene-d12
Scan Number	:	1684
Retention Time (minutes)	:	11.835
Quant Ion	:	264
Area	:	272676
Concentration (ng/ul)	:	40.0000
Integration start scan	:	1666
Y at integration start	:	375

Integration stop scan: 1698
Y at integration end: 375

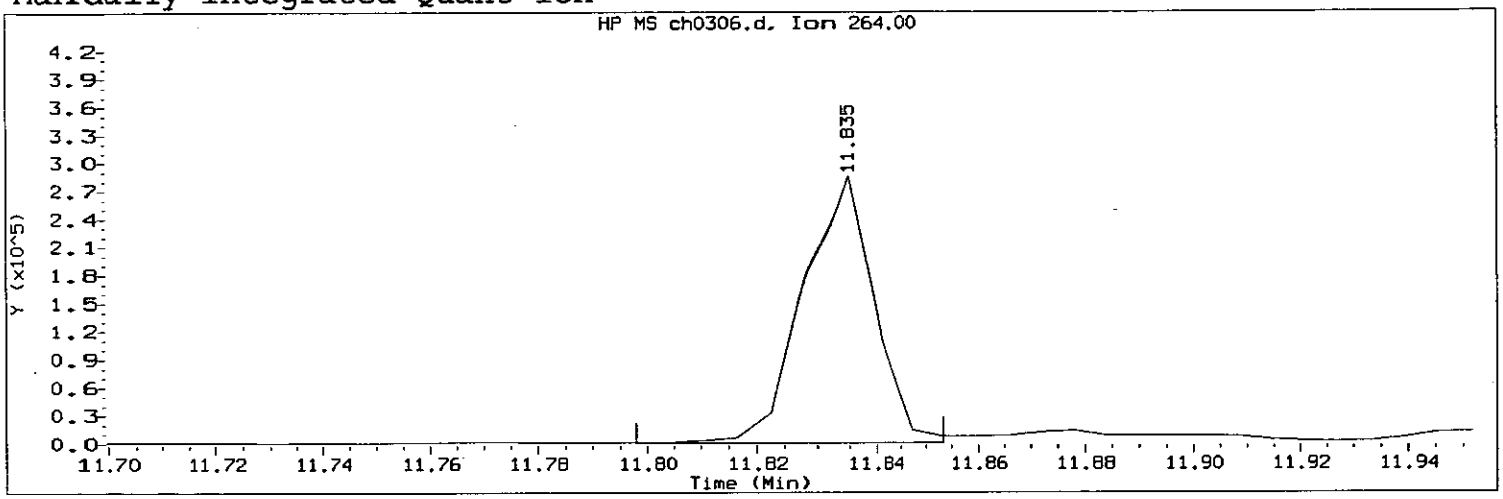
0221

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

Compound Number : 161
Compound Name : Perylene-d12
Scan Number : 1684
Retention Time (minutes): 11.835
Quant Ion : 264
Area (flag) : 236088 M
Concentration (ng/ul) : 40.0000
Integration start scan : 1677 Integration stop scan: 1686
Y at integration start : 563 Y at integration end: 563

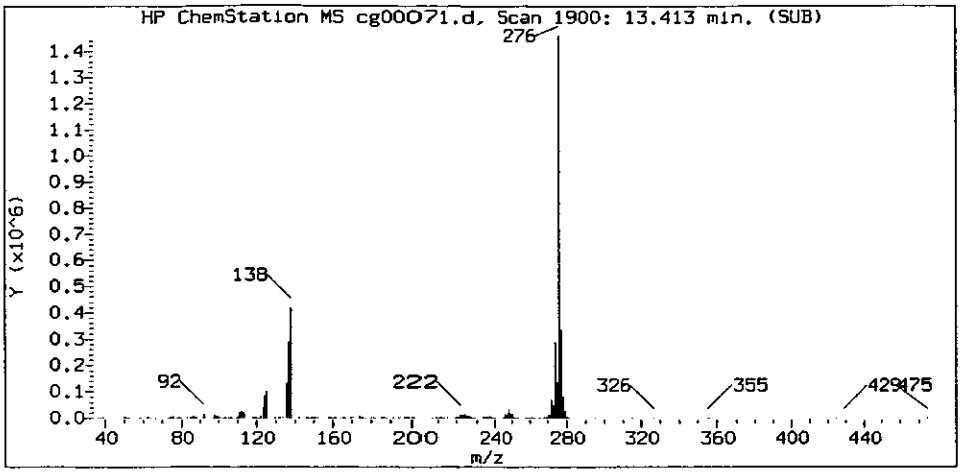
Reason for manual integration (circle one): missed peak (improper integratio

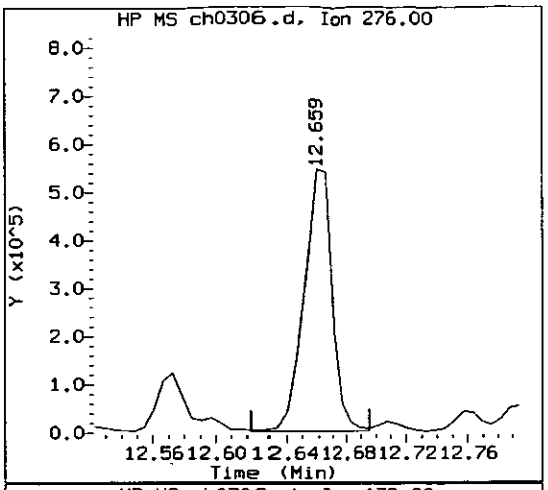
Analyst responsible for change: _____ 8/10/07

8222 8/13/07

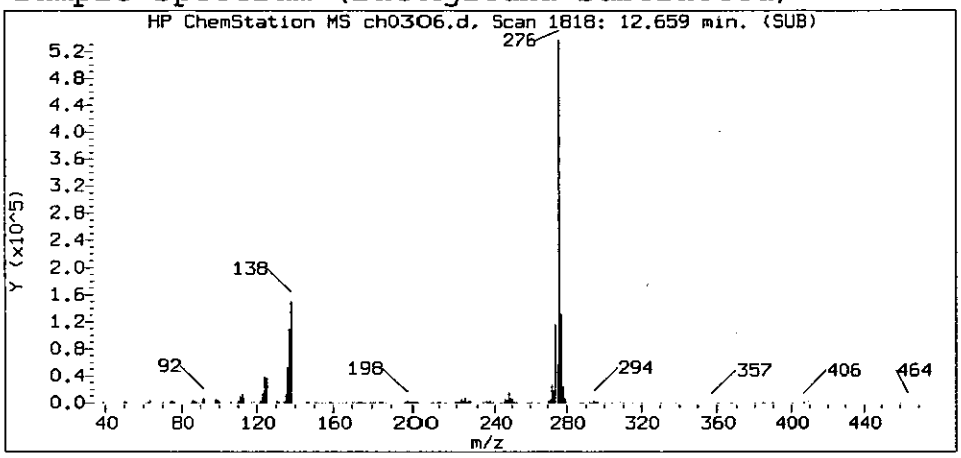
GC/MS audit/management approval: _____

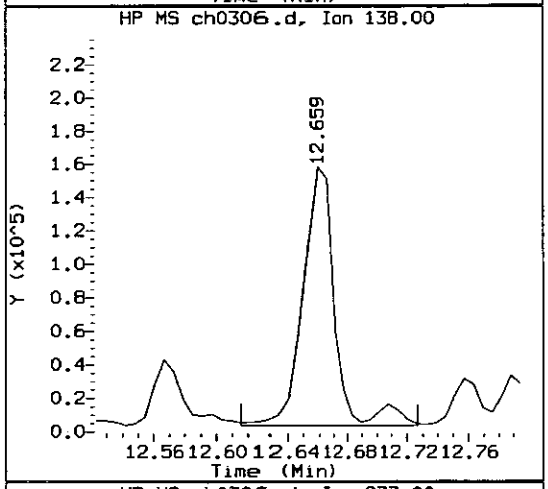
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



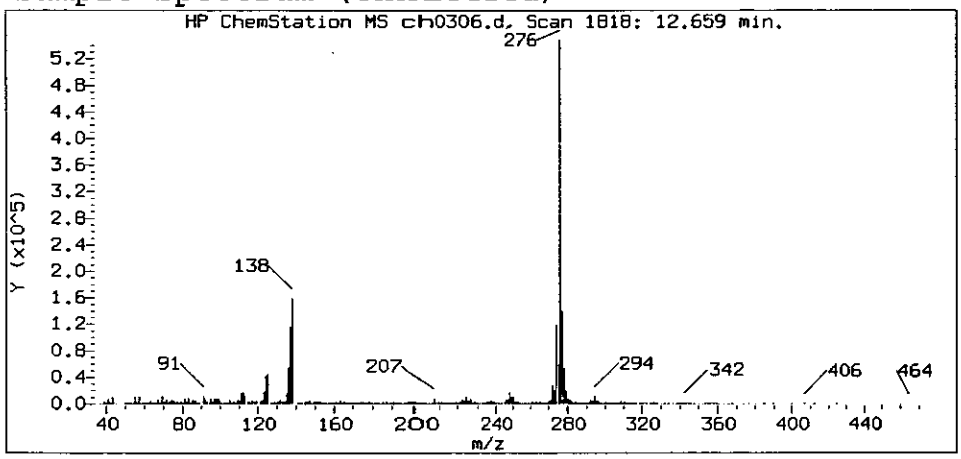


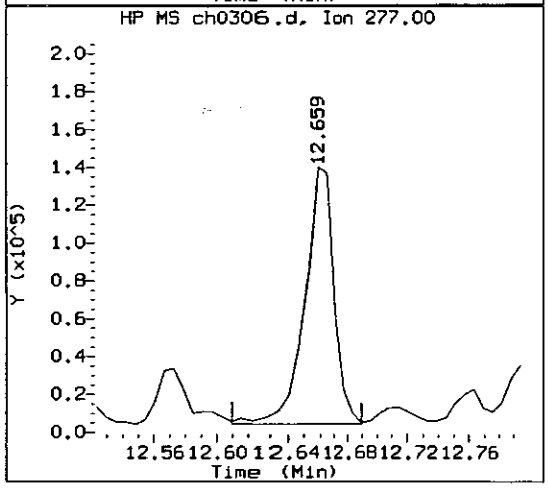
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

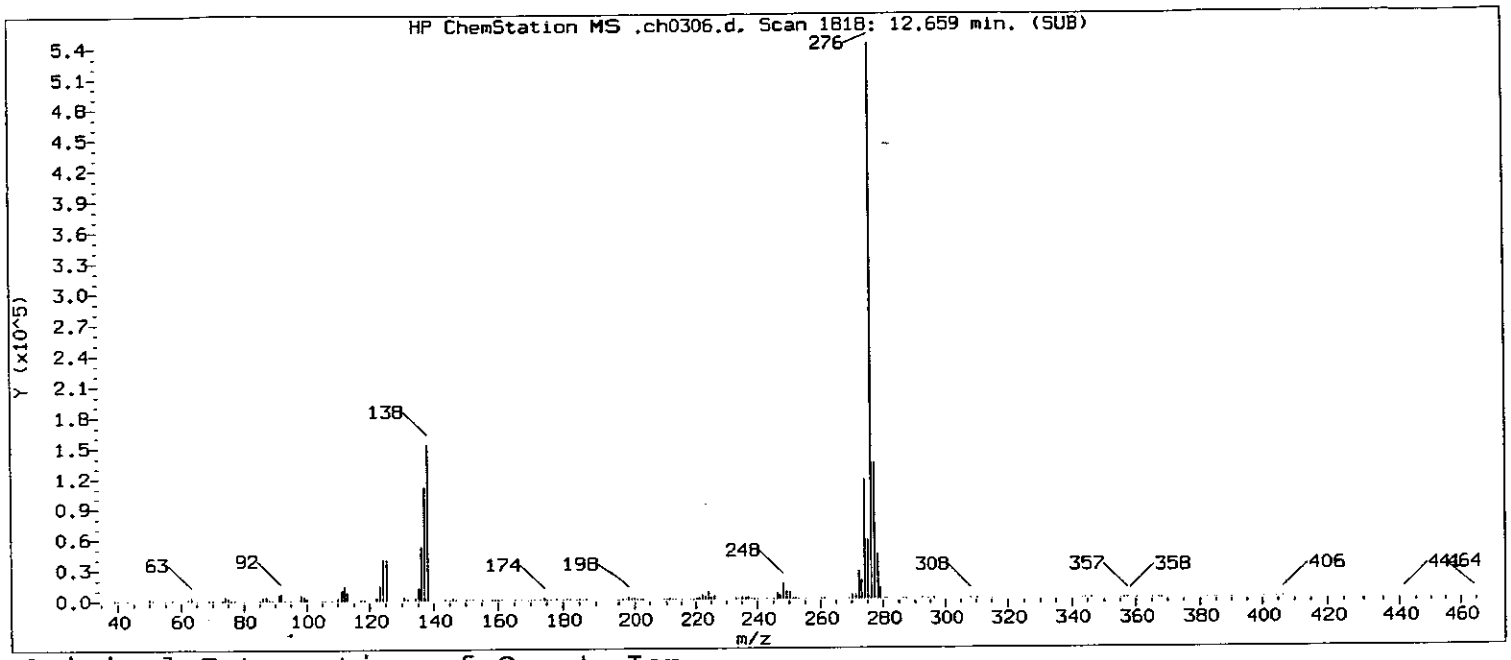
Sample Name: FD801

Lab Sample ID: 5118306

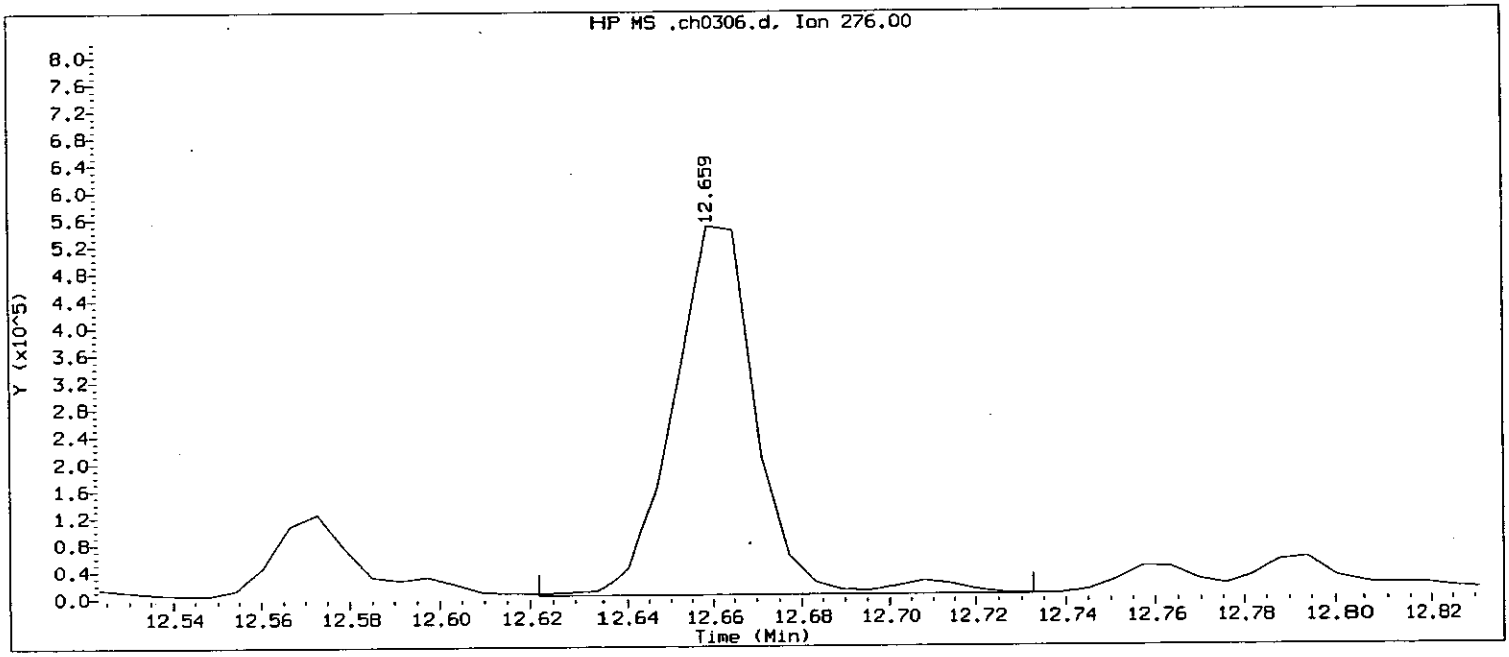
Compound Number	: 168
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1818
Retention Time (minutes)	: 12.659
Quant Ion	: 276.0
Area (flag)	: 711568 M
Concentration (ng/ul)	: 81.2143

8223

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 23:03 Automation

Sample Name: FD801 Lab Sample ID: 5118306

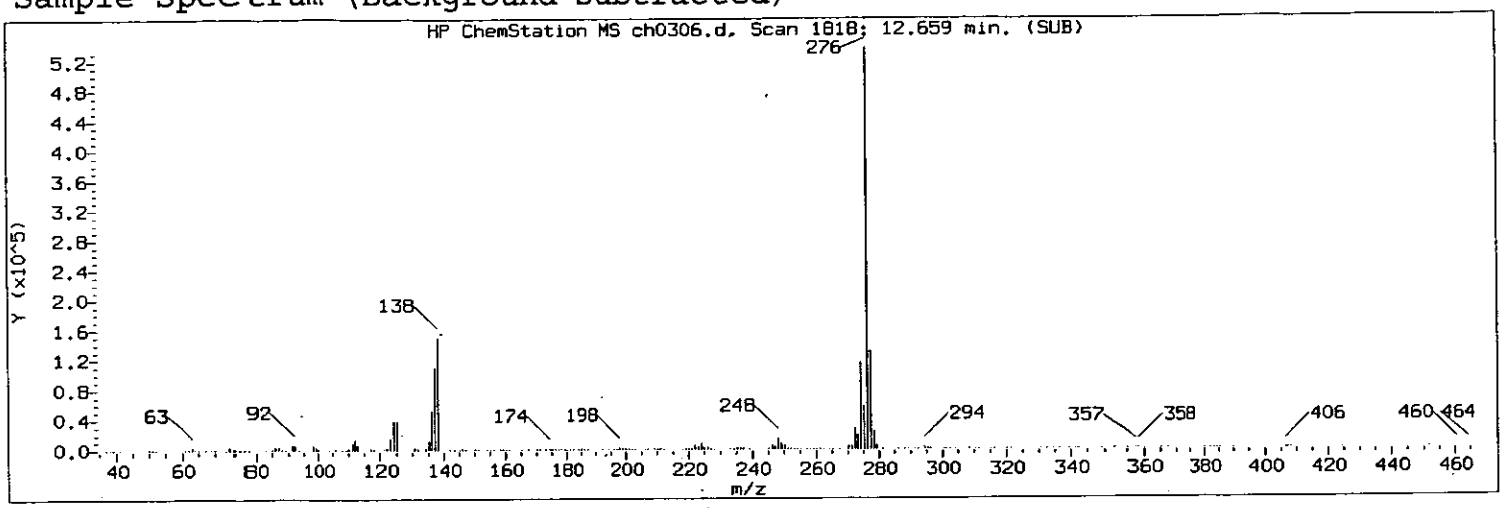
Compound Number	:	168
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	1818
Retention Time (minutes)	:	12.659
Quant Ion	:	276
Area	:	733018
Concentration (ng/ul)	:	72.4367
Integration start scan	:	1811
Y at integration start	:	3556

Integration stop scan: 1829
Y at integration end: 3556

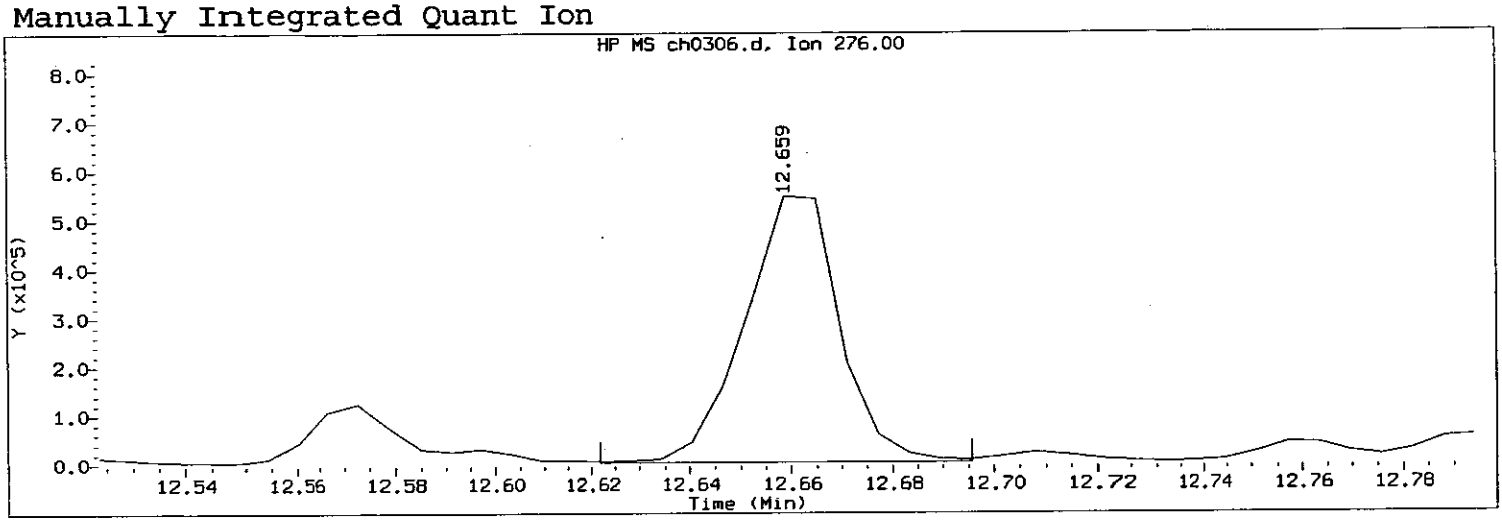
BGm
8224

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

Compound Number	: 168	
Compound Name	: Indeno(1,2,3-cd)pyrene	
Scan Number	: 1818	
Retention Time (minutes)	: 12.659	
Quant Ion	: 276	
Area (flag)	: 711568	M
Concentration (ng/ul)	: 81.2143	
Integration start scan	: 1811	Integration stop scan: 1823
Y at integration start	: 3761	Y at integration end: 3761

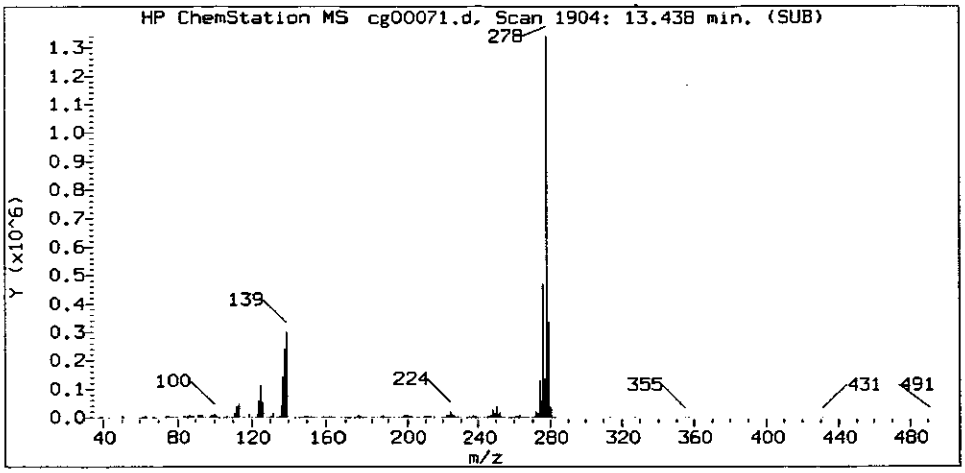
Reason for manual integration (circle one): missed peak (improper integratio

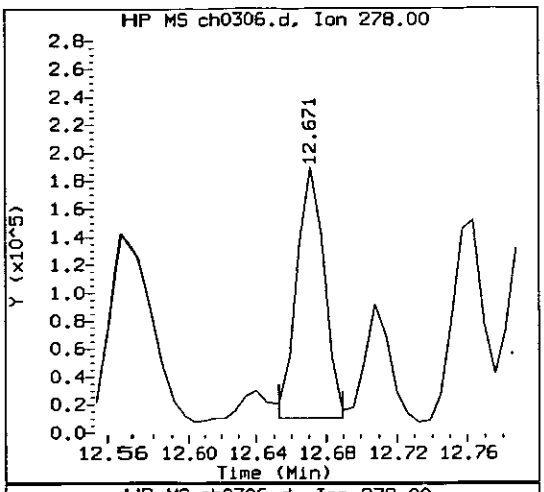
Analyst responsible for change: [signature]

8225 [signature] 8/10/07

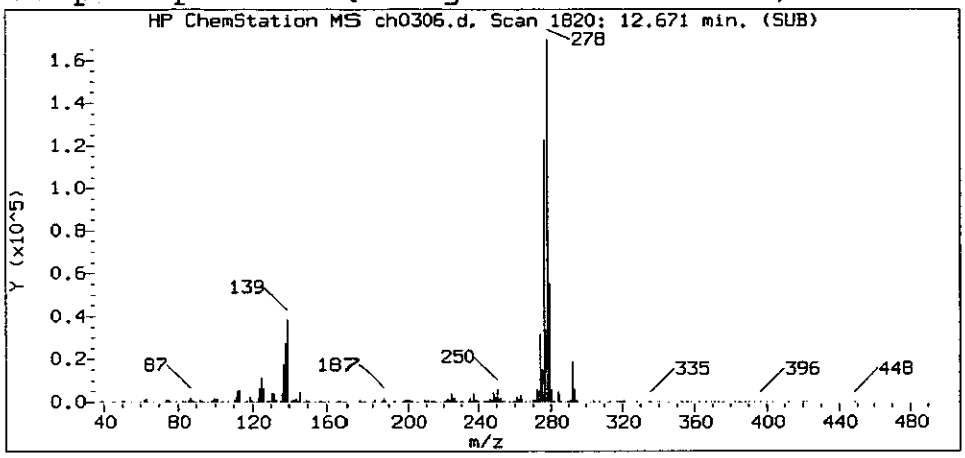
GC/MS audit/management approval: _____

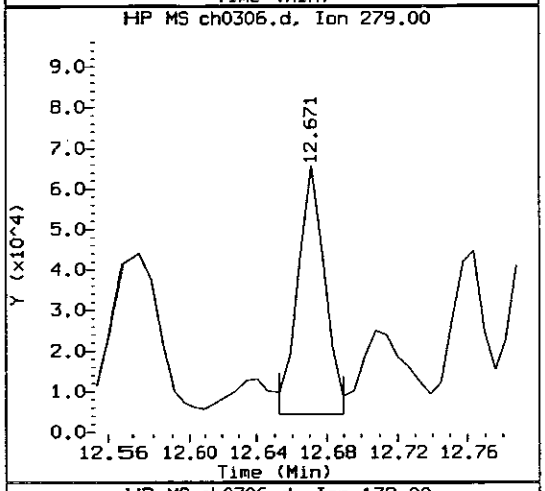
Reference Standard Spectrum for Dibenz(a,h)anthracene



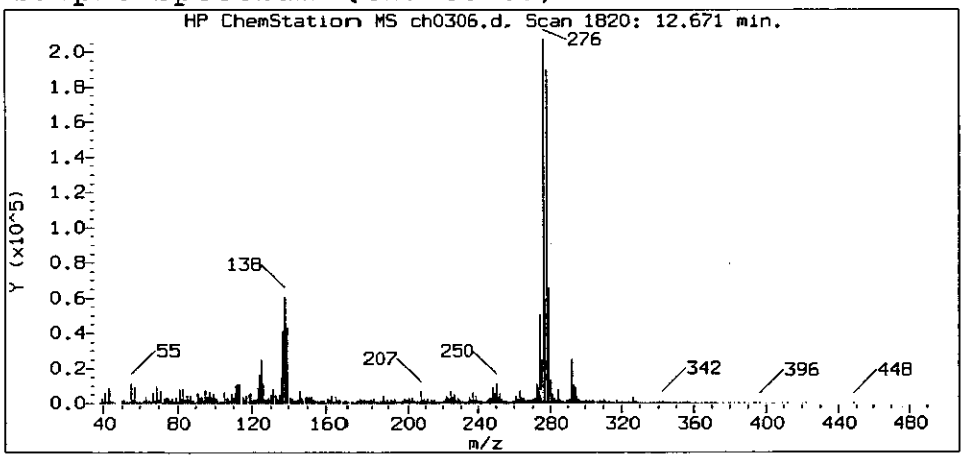


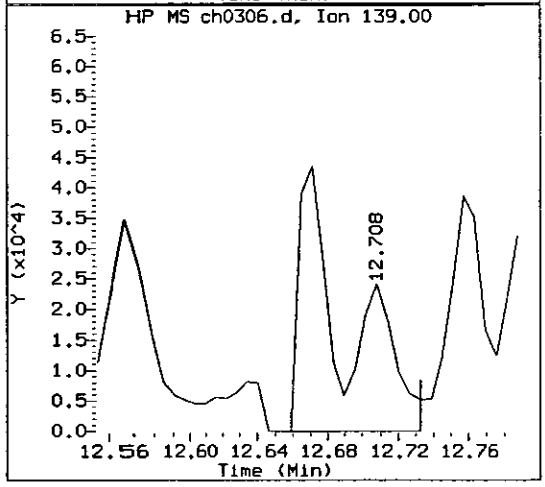
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

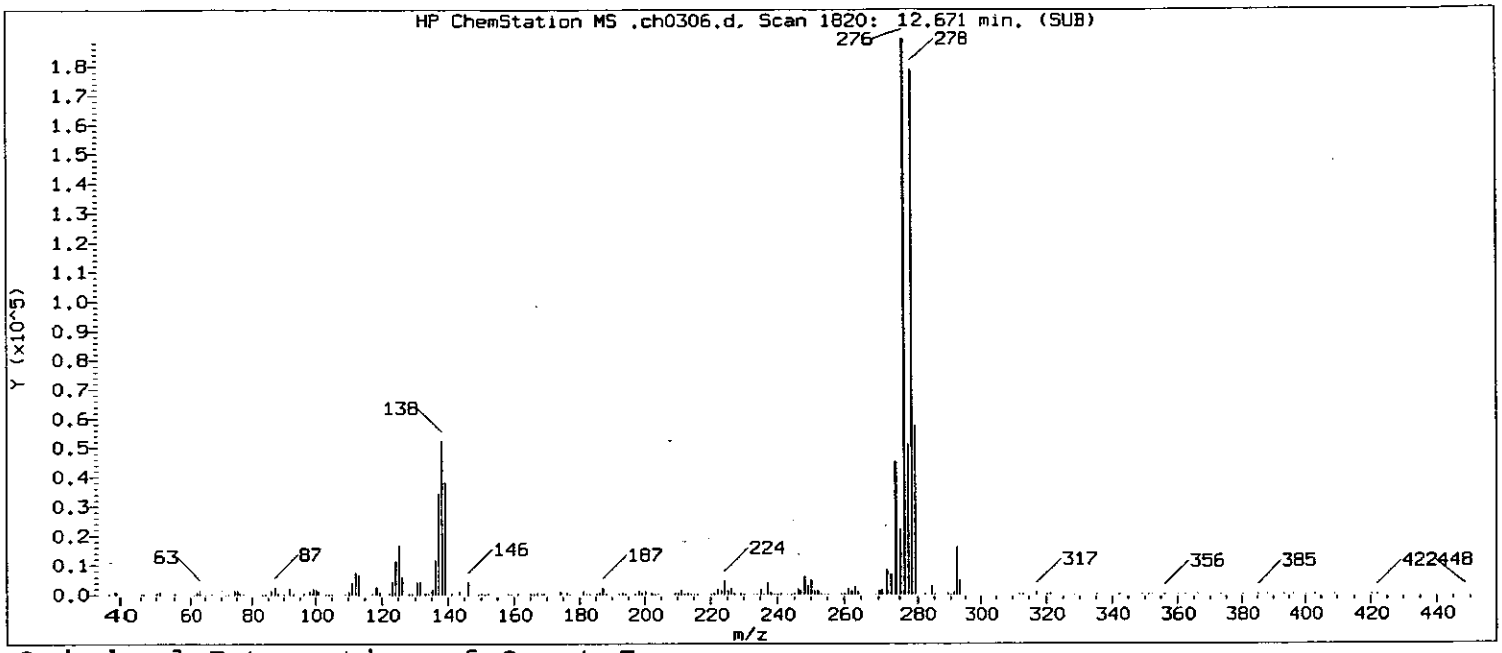
Sample Name: FD8 01

Lab Sample ID: 5118306

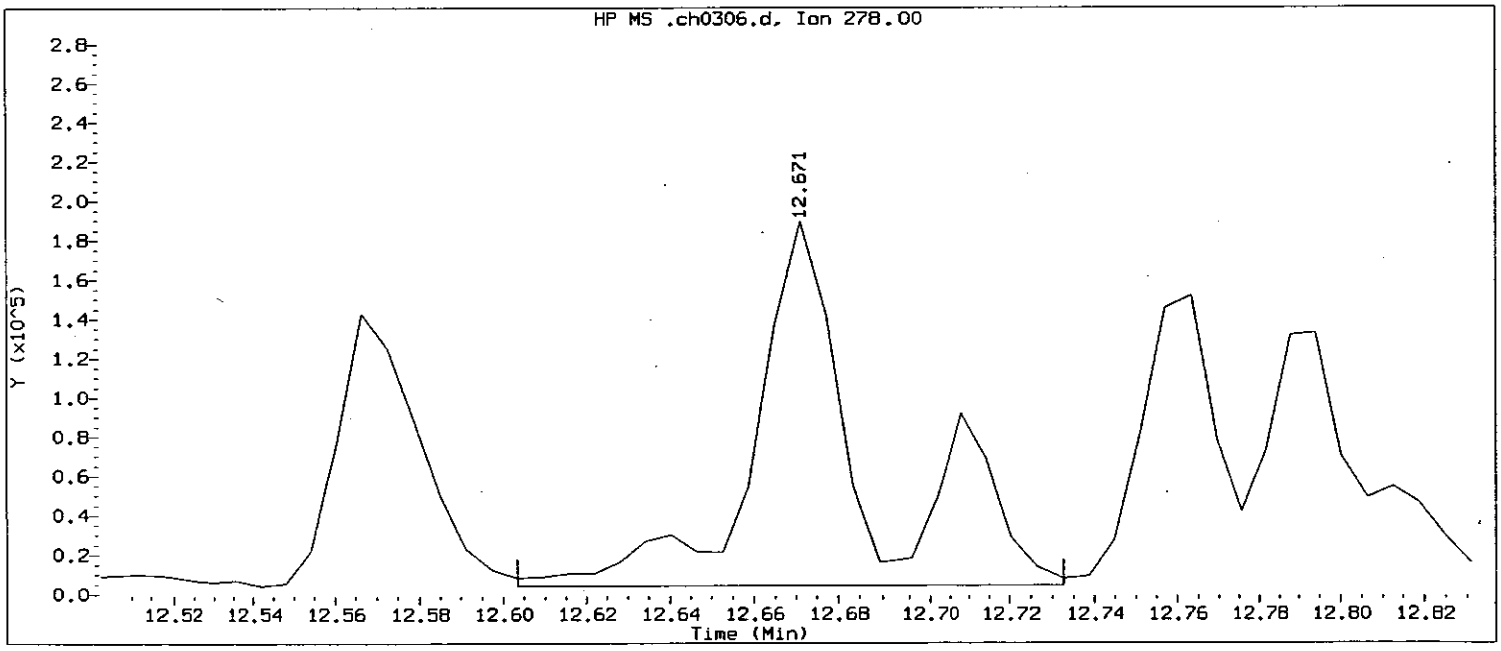
Compound Number	: 169
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1820
Retention Time (minutes)	: 12.671
Quant Ion	: 278.0
Area (flag)	: 199696 M
Concentration (ng/ul)	: 28.4615

8226

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 23:03 Automation

Sample Name: FD801 Lab Sample ID: 5118306

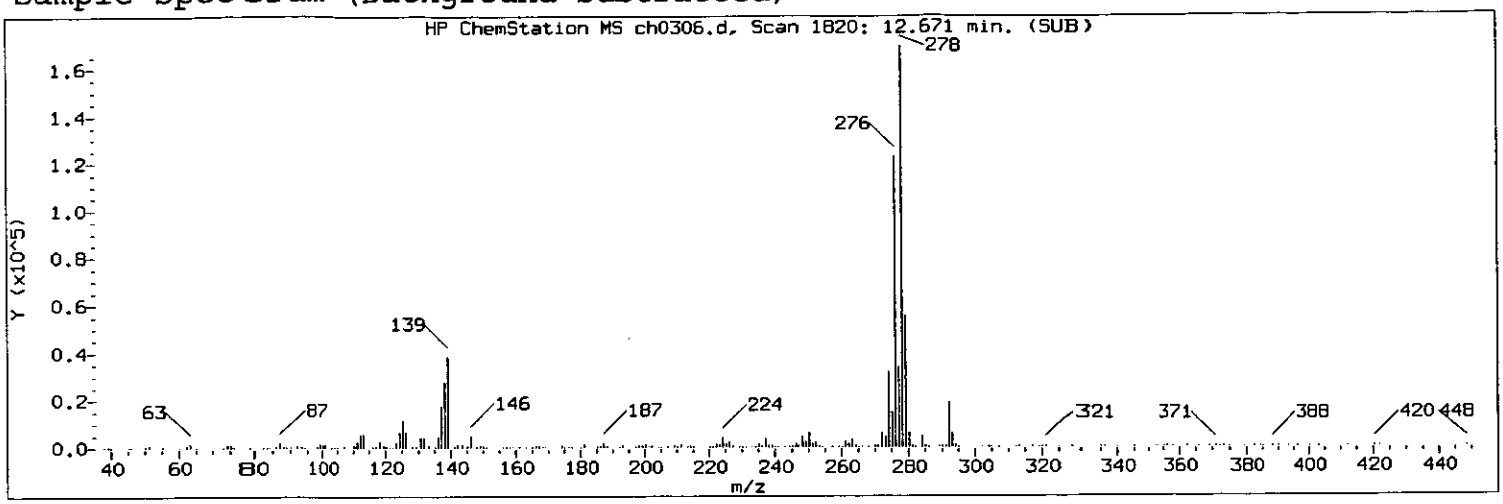
Compound Number	: 169		
Compound Name	: Dibenz(a,h)anthracene		
Scan Number	: 1820		
Retention Time (minutes)	: 12.671		
Quant Ion	: 278		
Area	: 343056		
Concentration (ng/ul)	: 42.3332		
Integration start scan	: 1808	Integration stop scan:	1829
Y at integration start	: 4243	Y at integration end:	4243

BGm 8-10-07

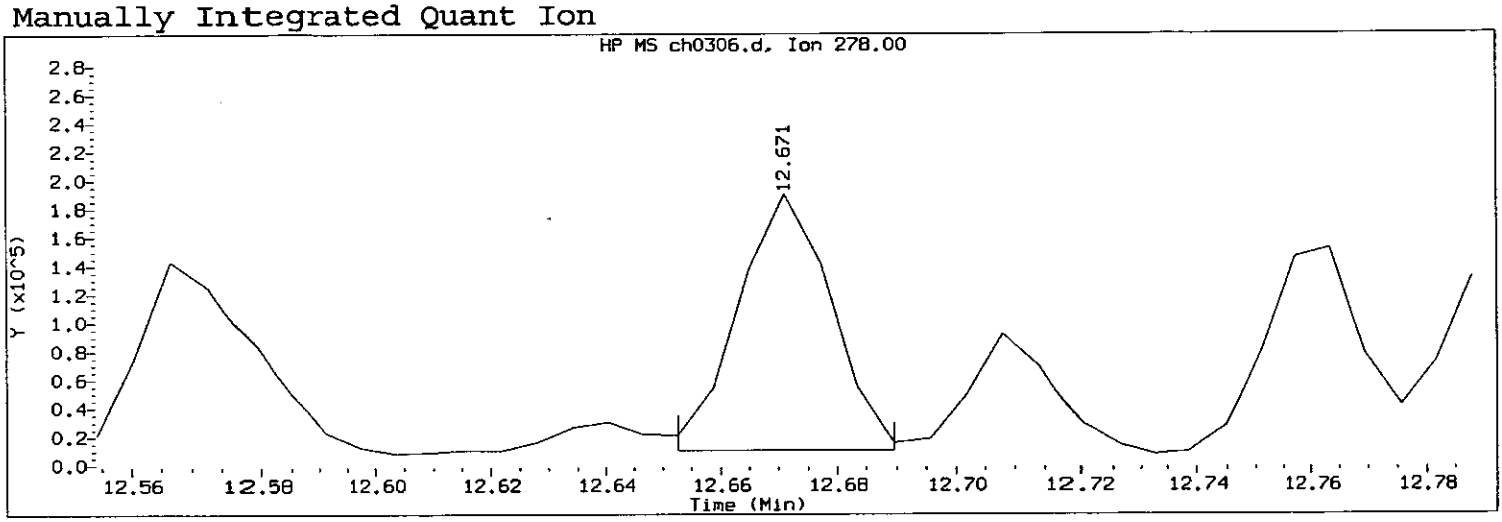
8227

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0306.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 22:48 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH
Calibration date and time: 10-AUG-2007 03:19
Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801 Lab Sample ID: 5118306

Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1820
Retention Time (minutes): 12.671
Quant Ion : 278
Area (flag) : 199696 M
Concentration (ng/ul) : 28.4615
Integration start scan : 1816 Integration stop scan: 1822
Y at integration start : 10503 Y at integration end: 10503

Reason for manual integration (circle one): missed peak improper integratic

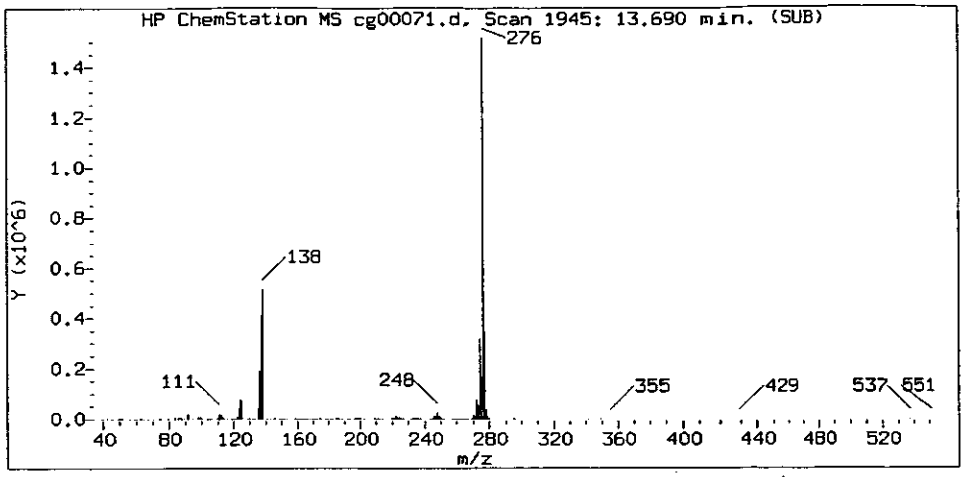
Analyst responsible for change: [signature] 8/10/07

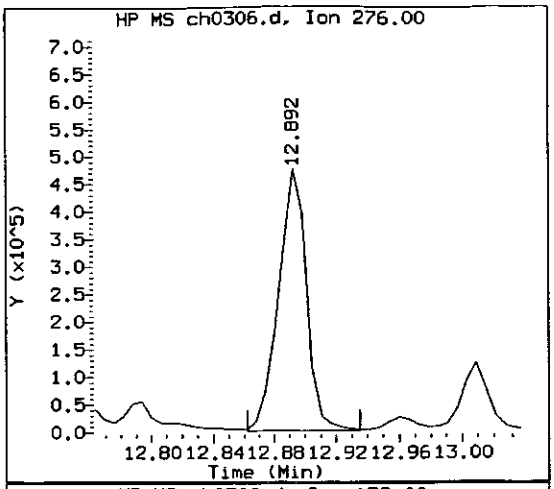
8228 [signature] 8/13/07

GC/MS audit/management approval: _____

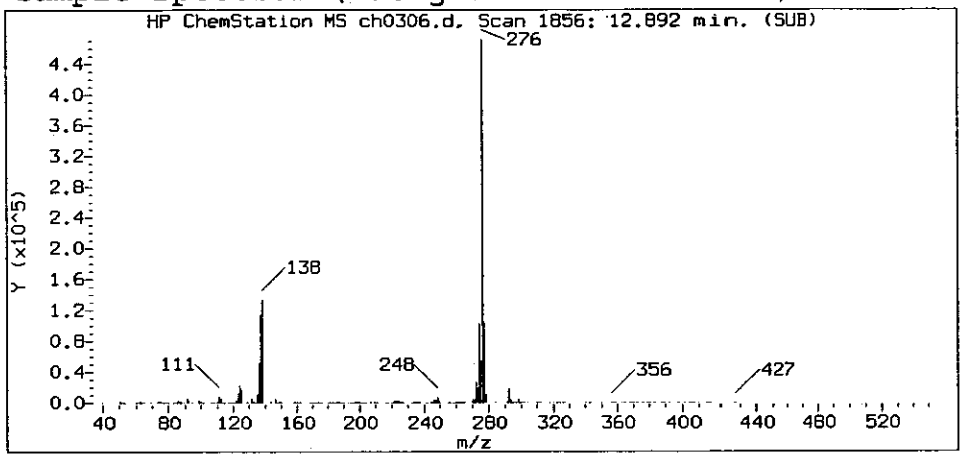
Manual Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0306.d, generated on 08/10/2007 at 04:49

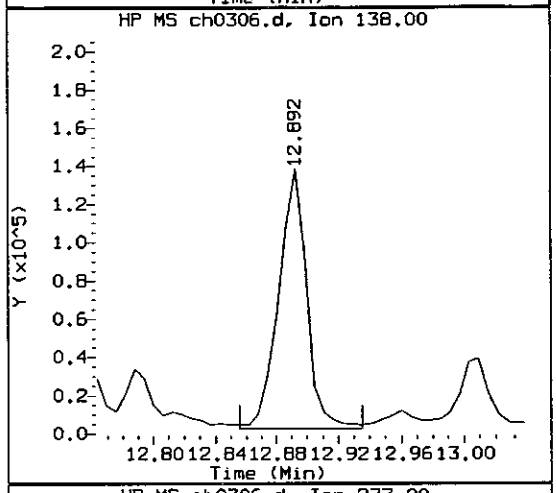
Reference Standard Spectrum for Benzo(g,h,i)perylene



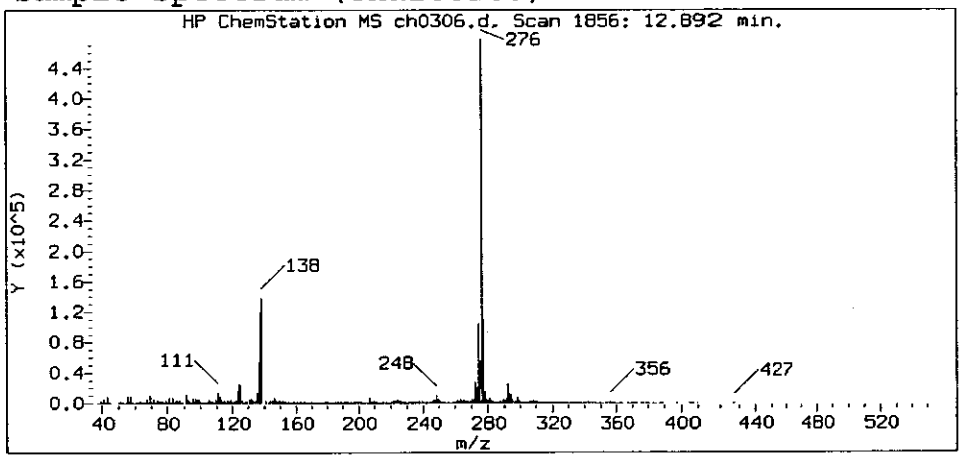


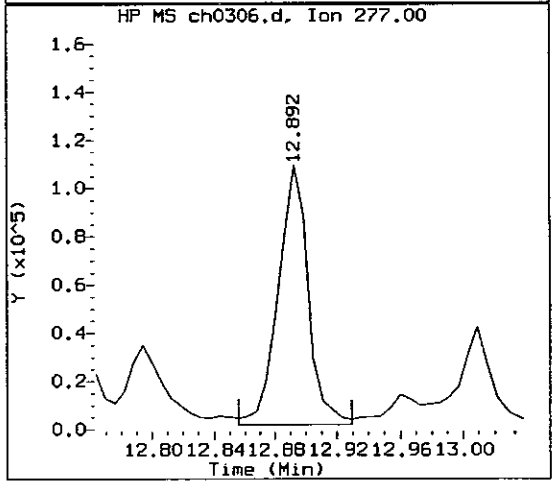
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug09a.b/ch0306.d
Injection date and time: 09-AUG-2007 22:48

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m
Calibration date and time: 10-AUG-2007 03:19

Sublist used: SPAH

Date, time and analyst ID of latest file update: 10-Aug-2007 04:48 bkg00522

Sample Name: FD801

Lab Sample ID: 5118306

Compound Number	: 170
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 1856
Retention Time (minutes)	: 12.892
Quant Ion	: 276.0
Area (flag)	: 600142
Concentration (ng/ul)	: 81.6892

#229

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FD801DL

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118306DL

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0349.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 15 dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/12/07

Injection Volume: 1 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	LOQ	Q
91-20-3	Naphthalene	300		J D
208-96-8	Acenaphthylene	2400		D
83-32-9	Acenaphthene	980	U	
86-73-7	Fluorene	370		J D
85-01-8	Phenanthrene	3300		D
120-12-7	Anthracene	1700		D
206-44-0	Fluoranthene	8200		D
129-00-0	Pyrene	8400		D
56-55-3	Benzo(a)anthracene	6600		D
218-01-9	Chrysene	5600		D
205-99-2	Benzo(b)fluoranthene	8200		D
207-08-9	Benzo(k)fluoranthene	3300		D
50-32-8	Benzo(a)pyrene	5400		D
193-39-5	Indeno(1,2,3-cd)pyrene	3200		D
53-70-3	Dibenz(a,h)anthracene	1100		D
191-24-2	Benzo(g,h,i)perylene	3100		D

8230

FD801DL

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118306DL

Data file: /chem/HP10623.i/07aug12.b/ch0349.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 12-AUG-2007 23:16 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 12-AUG-2007 17:17
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug12.b/ch0331.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 5 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.690(0.000)	522	152.0	68344(-15)	40.00	
46) Naphthalene-d8	5.822(0.000)	706	136.0	297133(-17)	40.00	
82) Acenaphthene-d10	7.291(0.006)	945	164.0	182199(-17)	40.00	
120) Phenanthrene-d10	8.502(0.006)	1142	188.0	320570(-19)	40.00	
149) Chrysene-d12	10.654(0.012)	1492	240.0	259635(-20)	40.00	
161) Perylene-d12	11.792(0.006)	1677	264.0	220661(-19)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.194(0.001)	82	61725	21.310	107%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.750(0.000)	172	104601	18.242	91%		55 - 123
138) Terphenyl-d14	(5)	9.818(0.000)	244	105630	19.765	99%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/u
47) Naphthalene	(2)	5.840(0.000)	128	12314	1.518	253.00			1.00
80) Acenaphthylene	(3)	7.168(0.001)	152	99377	12.140	2023.28			1.00
83) Acenaphthene	(3)				ND	ND			1.00
94) Fluorene	(3)	7.740(0.000)	166	11526	1.880	313.26			1.00
121) Phenanthrene	(4)	8.521(0.000)	178	146205	16.737	2789.45			1.00
124) Anthracene	(4)	8.564(0.000)	178	79258	8.795	1465.90			1.00
134) Fluoranthene	(4)	9.486(0.000)	202	408844	41.773	6962.21			1.00
136) Pyrene	(5)	9.671(0.000)	202	347281	42.798	7133.04			1.00
146) Benzo(a)anthracene	(5)	10.648(-0.001)	228	246852	33.669	5611.54			1.00
150) Chrysene	(5)	10.673(0.000)	228	208108	28.763	4793.80			1.00
158) Benzo(b)fluoranthene	(6)	11.503(0.001)	252	310064	41.839	6973.08			1.00
159) Benzo(k)fluoranthene	(6)	11.521(0.001)	252	142145	17.067	2844.51			1.00
160) Benzo(a)pyrene	(6)	11.749(0.000)	252	198817	27.300	4550.00			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.597(0.000)	276	131895	16.106	2684.37			1.00
169) Dibenz(a,h)anthracene	(6)	12.610(0.001)	278	38419	5.858	976.41			1.00
170) Benzo(g,h,i)perylene	(6)	12.819(0.001)	276	108592	15.815	2635.76			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

FD801DL

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118306DL

Data file: /chem/HP10623.i/07aug12.b/ch0349.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 12-AUG-2007 23:16 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 12-AUG-2007 17:17
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug12.b/ch0331.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 5 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

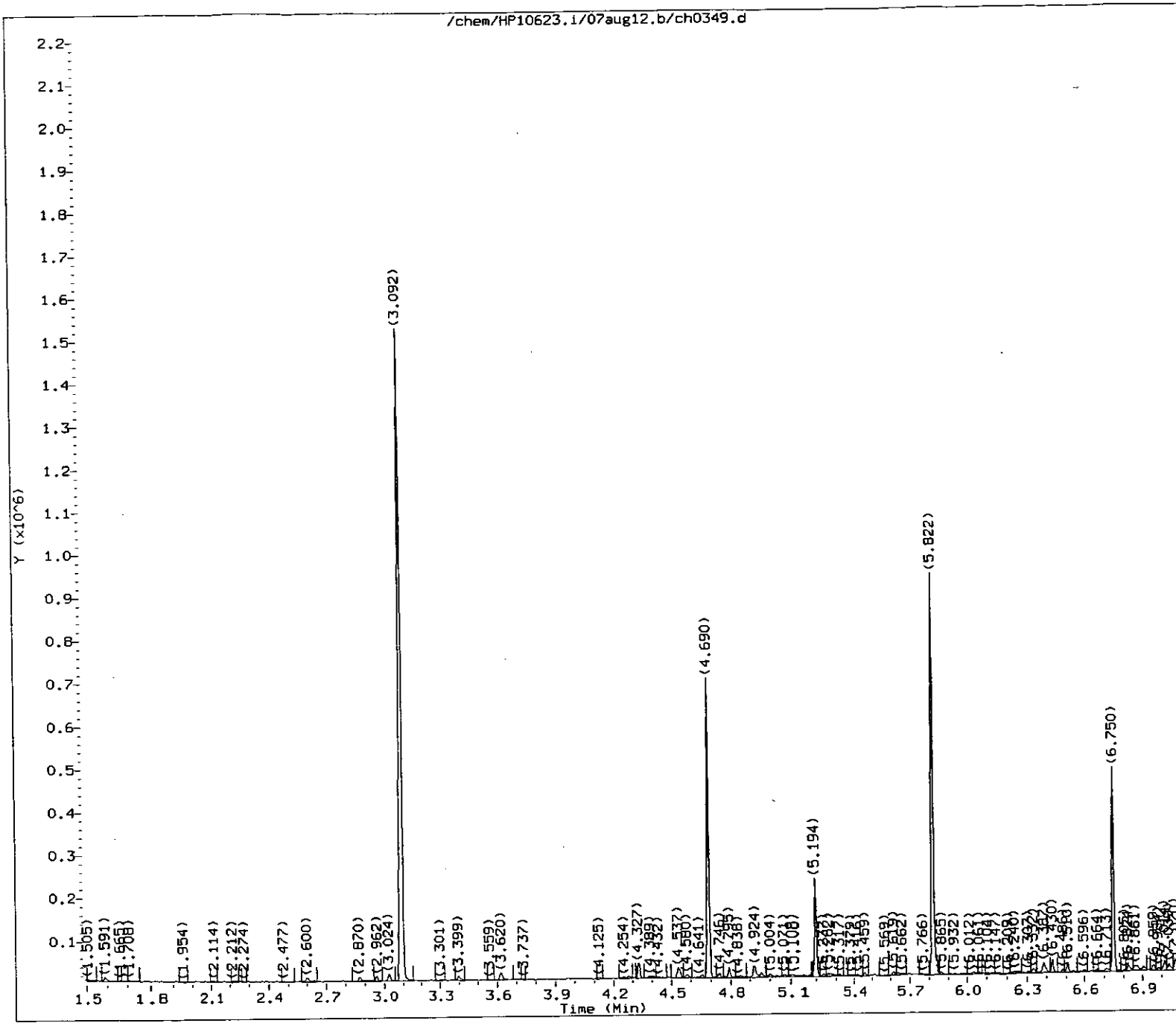
THIS SPACE WAS LEFT BLANK INTENTIONALLY

Total number of targets = 16

Comments:

Analyst: (SLL) Date: 8/13/07
Auditor: Date: 8/13/07

8232



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

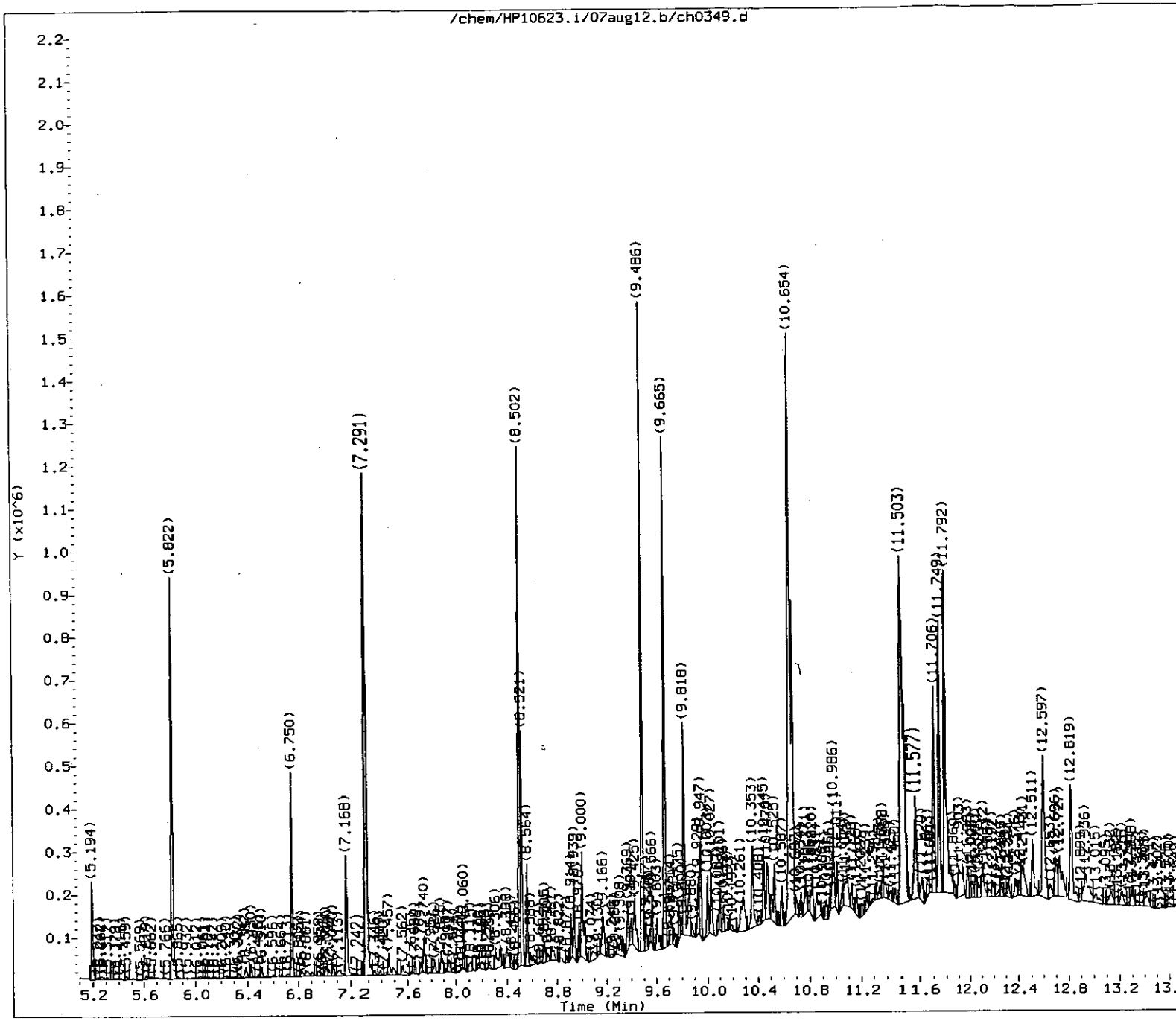
Sublist used: SPAH

Sample Name: FD801DL

Lab Sample ID: 5118306DL

8233

BCm
8/13/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: FD801DL

Lab Sample ID: 5118306DL

0234

BG 8/13/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

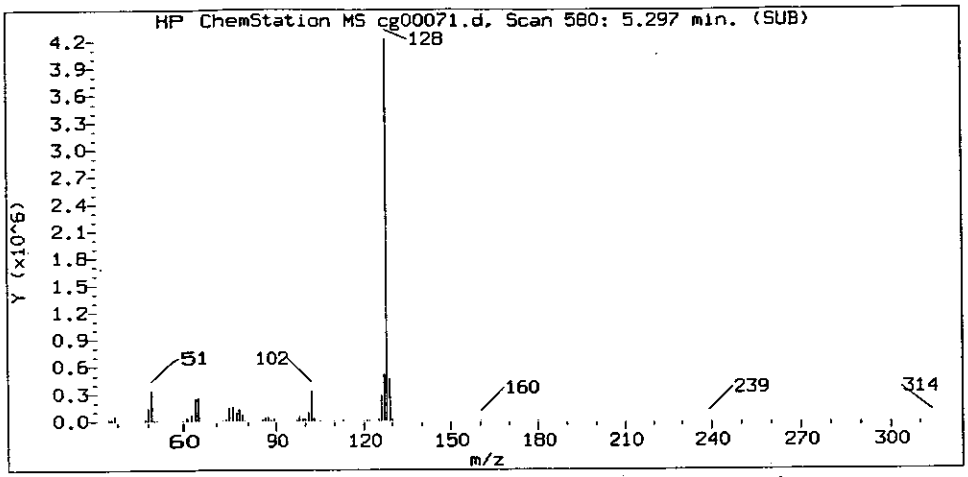
Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

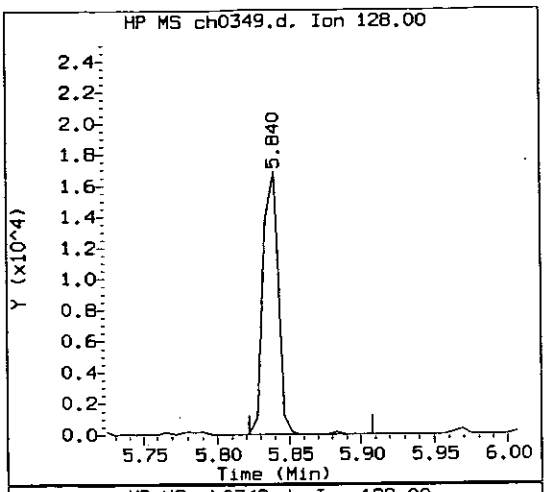
Sample Name: FD801DL Lab Sample ID: 5118306DL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.690	152	68344	40.0000
46) Naphthalene-d8	(2)	5.822	136	297133	40.0000
47) Naphthalene	(2)	5.840	128	12314	1.5180
80) Acenaphthylene	(3)	7.168	152	99377	12.1397
82) Acenaphthene-d10	(3)	7.291	164	182199	40.0000
94) Fluorene	(3)	7.740	166	11526	1.8795
120) Phenanthrene-d10	(4)	8.502	188	320570	40.0000
121) Phenanthrene	(4)	8.521	178	146205	16.7367
124) Anthracene	(4)	8.564	178	79258	8.7954
134) Fluoranthene	(4)	9.486	202	408844	41.7732
136) Pyrene	(5)	9.671	202	347281	42.7983
146) Benzo(a)anthracene	(5)	10.648	228	246852	33.6692
149) Chrysene-d12	(5)	10.654	240	259635	40.0000
150) Chrysene	(5)	10.673	228	208108	28.7628
158) Benzo(b)fluoranthene	(6)	11.503	252	310064M	41.8385
159) Benzo(k)fluoranthene	(6)	11.521	252	142145M	17.0670
160) Benzo(a)pyrene	(6)	11.749	252	198817	27.3000
161) Perylene-d12	(6)	11.792	264	220661	40.0000
168) Indeno(1,2,3-cd)pyrene	(6)	12.597	276	131895M	16.1062
169) Dibenz(a,h)anthracene	(6)	12.610	278	38419	5.8585
170) Benzo(g,h,i)perylene	(6)	12.819	276	108592	15.8146
35) Nitrobenzene-d5	(2)	5.194	82	61725	21.3102
66) 2-Fluorobiphenyl	(3)	6.750	172	104601	18.2417
138) Terphenyl-d14	(5)	9.818	244	105630	19.7653

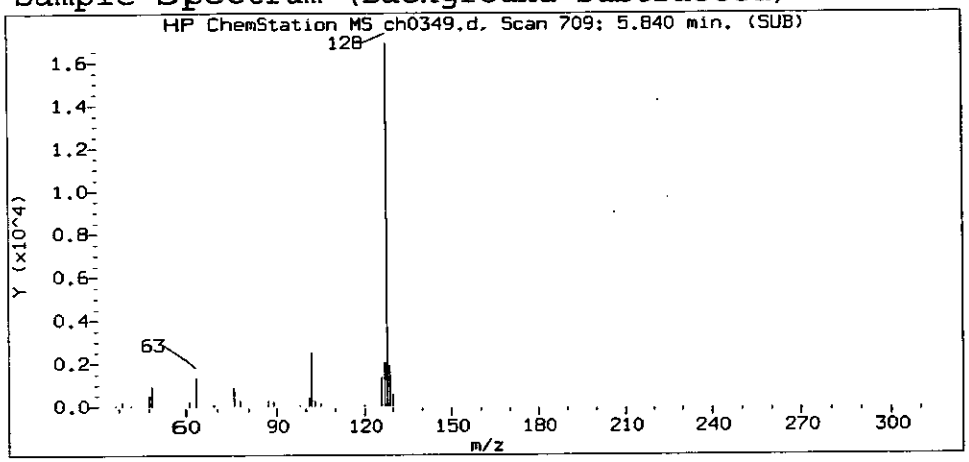
M = Compound was manually integrated. A = User selected an alternate h:

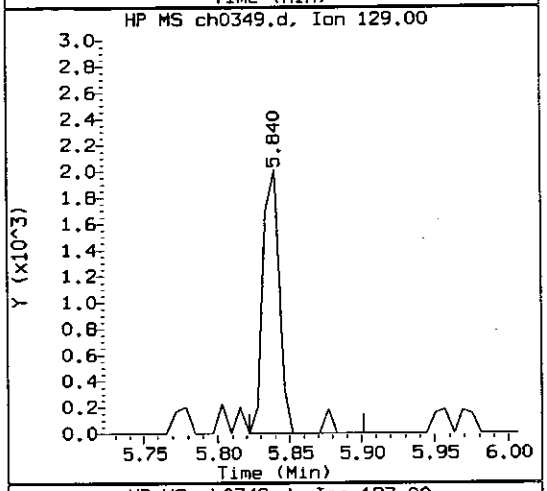
Reference Standard Spectrum for Naphthalene



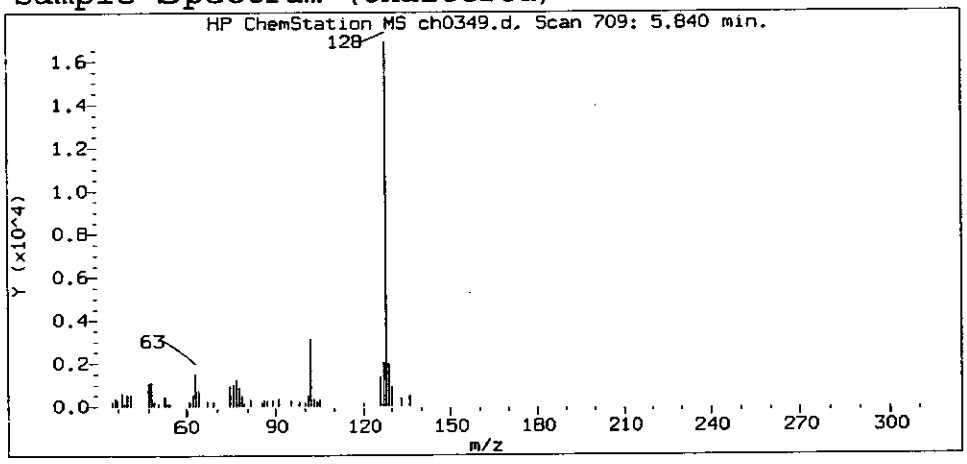


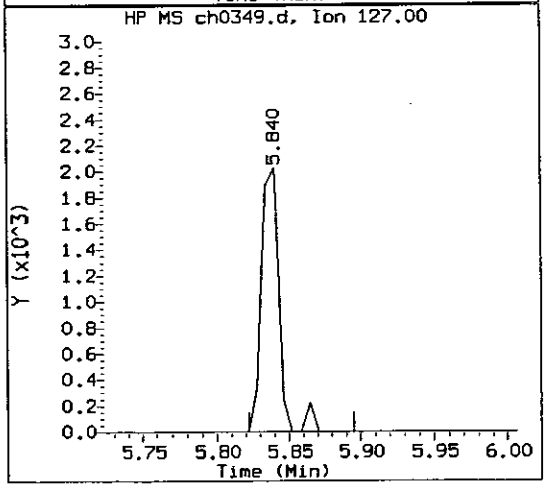
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

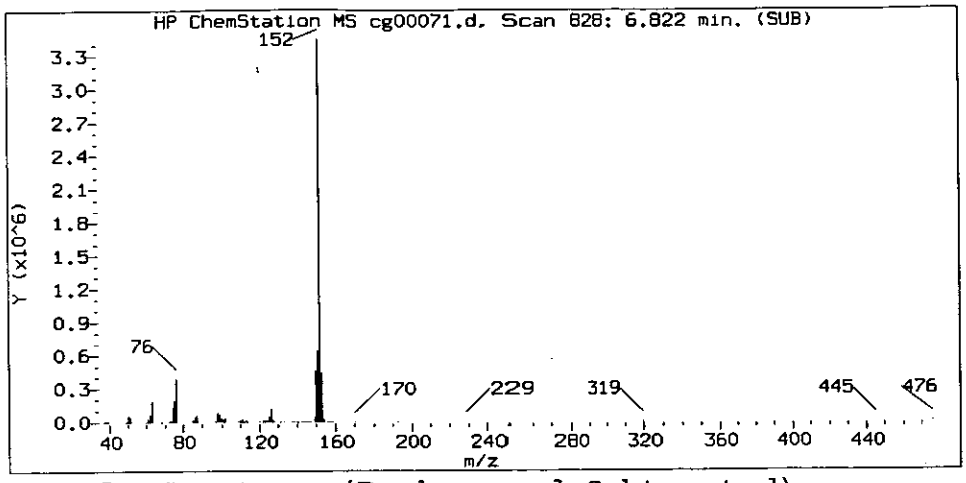
Sample Name: FD801DL

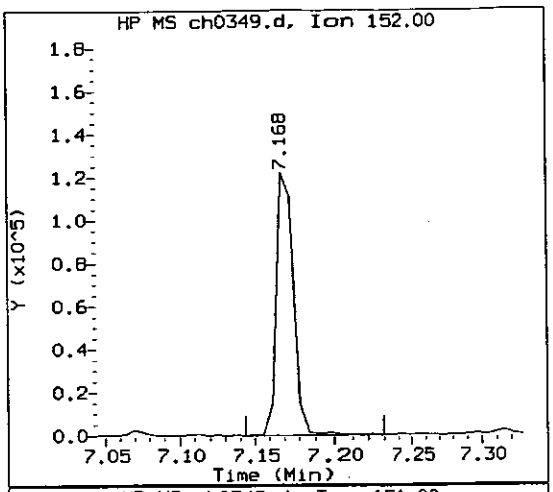
Lab Sample ID: 5118306DL

Compound Number	: 47
Compound Name	: Naphthalene
Scan Number	: 709
Retention Time (minutes)	: 5.840
Quant Ion	: 128.0
Area (flag)	: 12314
Concentration (ng/ul)	: 1.5180

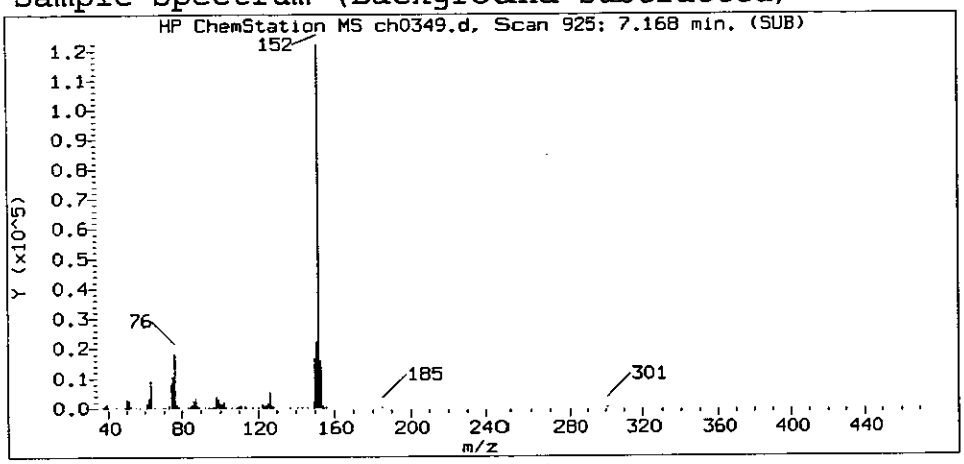
0236

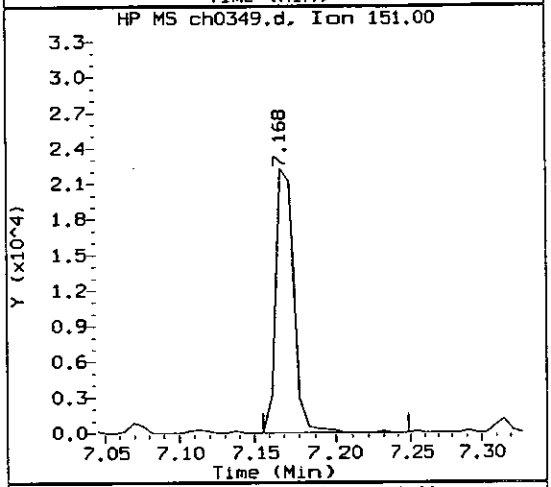
Reference Standard Spectrum for Acenaphthylene



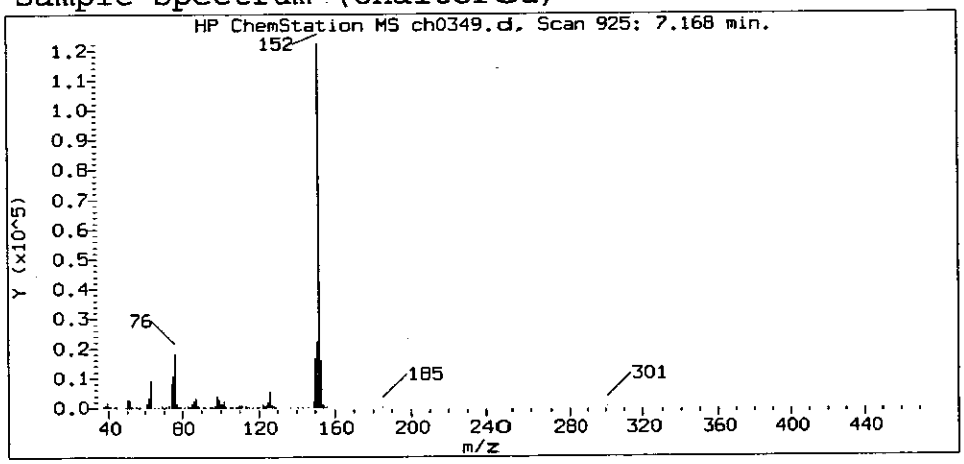


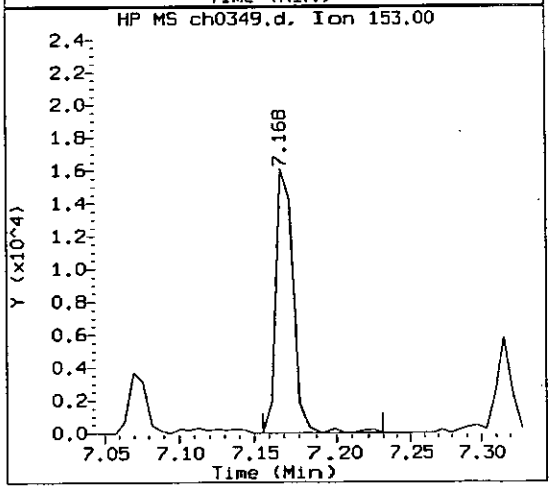
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

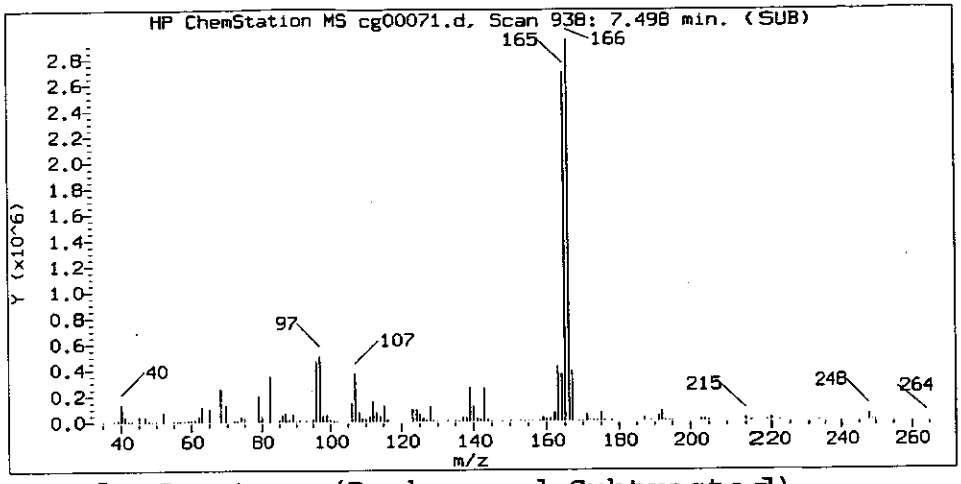
Sample Name: FD801DL

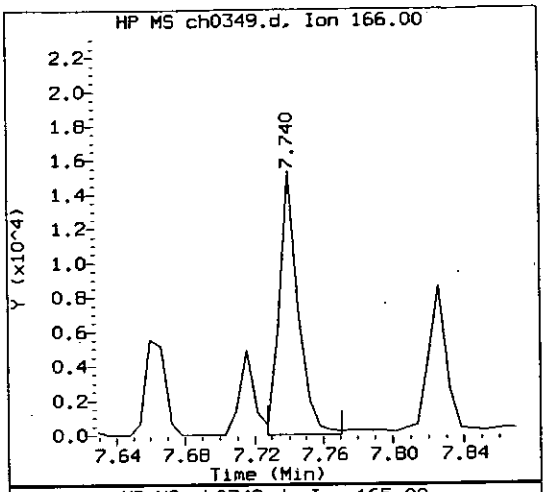
Lab Sample ID: 5118306DL

Compound Number	:	80
Compound Name	:	Acenaphthylene
Scan Number	:	925
Retention Time (minutes)	:	7.168
Quant Ion	:	152.0
Area (flag)	:	99377
Concentration (ng/ul)	:	12.1397

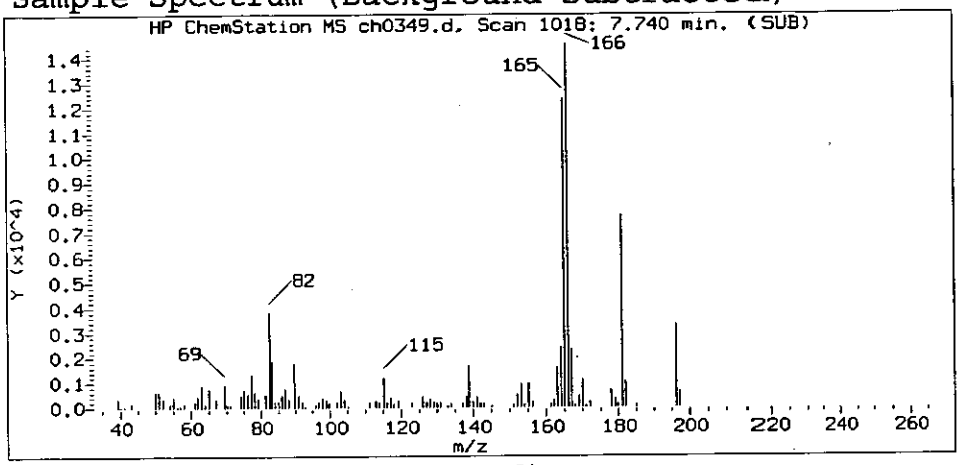
0237

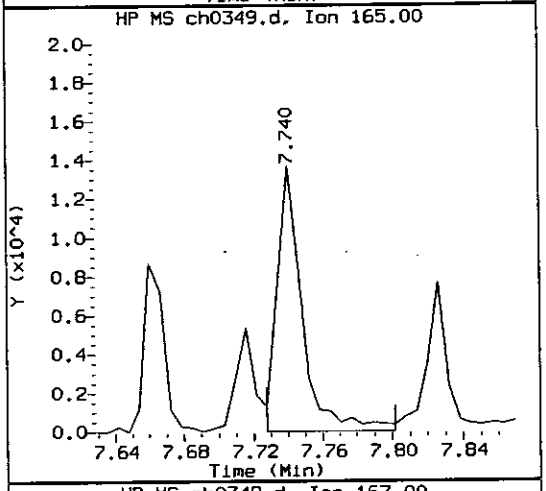
Reference Standard Spectrum for Fluorene



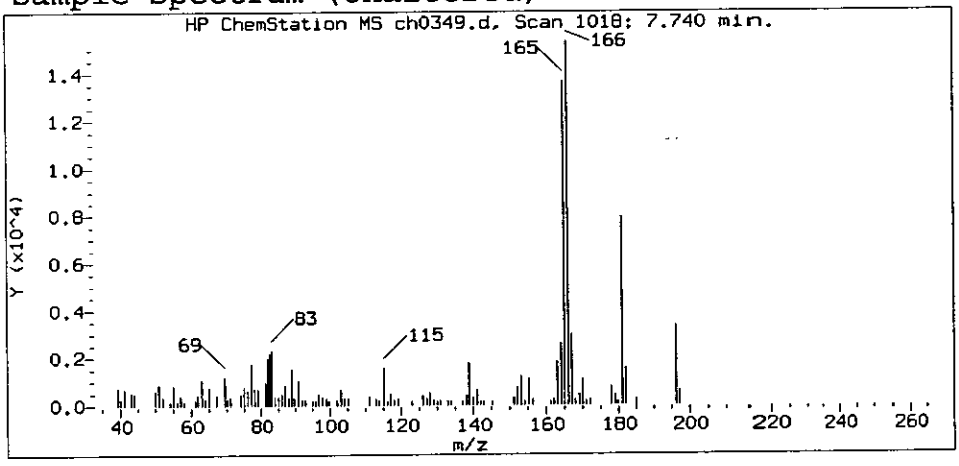


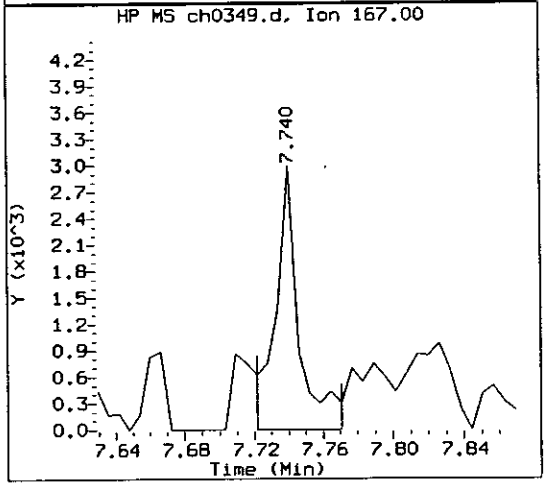
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

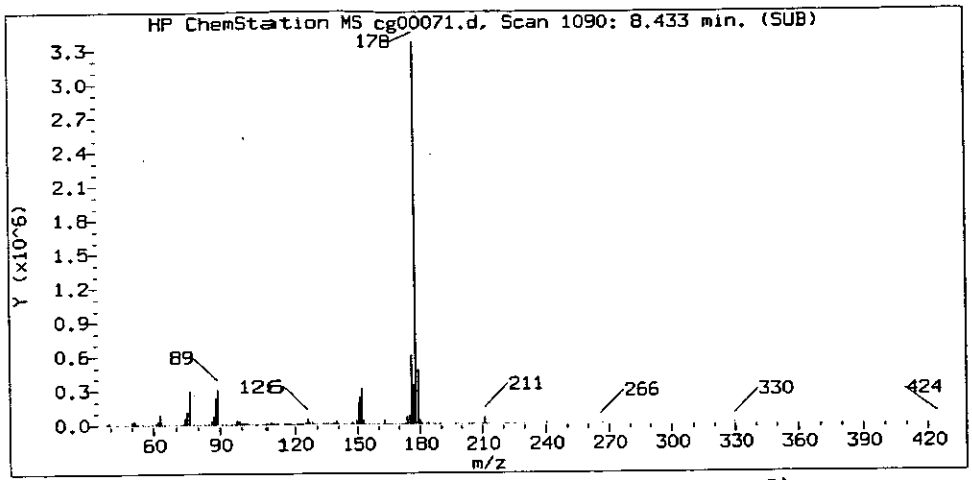
Sample Name: FD801DL

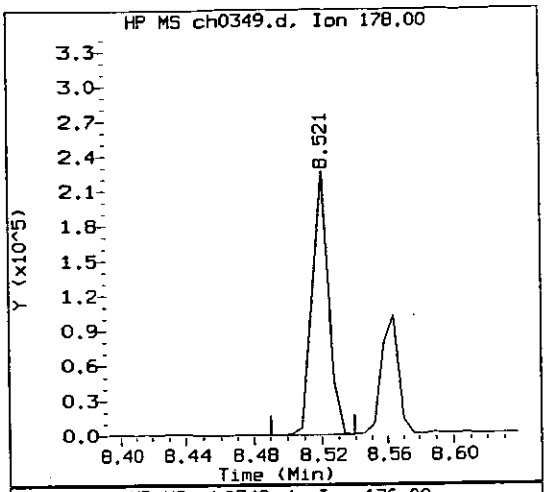
Lab Sample ID: 5118306DL

Compound Number	: 94
Compound Name	: Fluorene
Scan Number	: 1018
Retention Time (minutes)	: 7.740
Quant Ion	: 166.0
Area (flag)	: 11526
Concentration (ng/ul)	: 1.8795

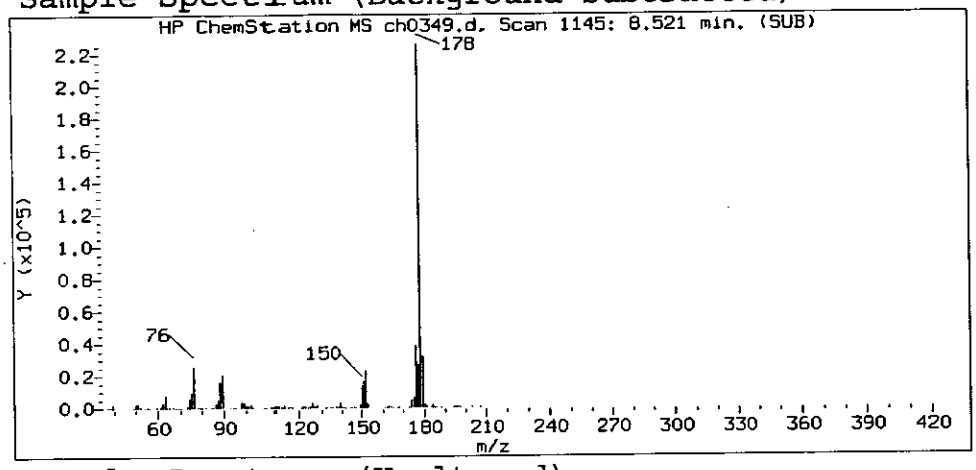
0238

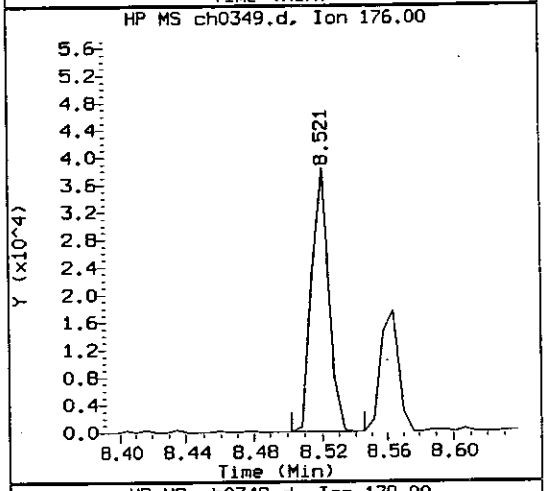
Reference Standard Spectrum for Phenanthrene



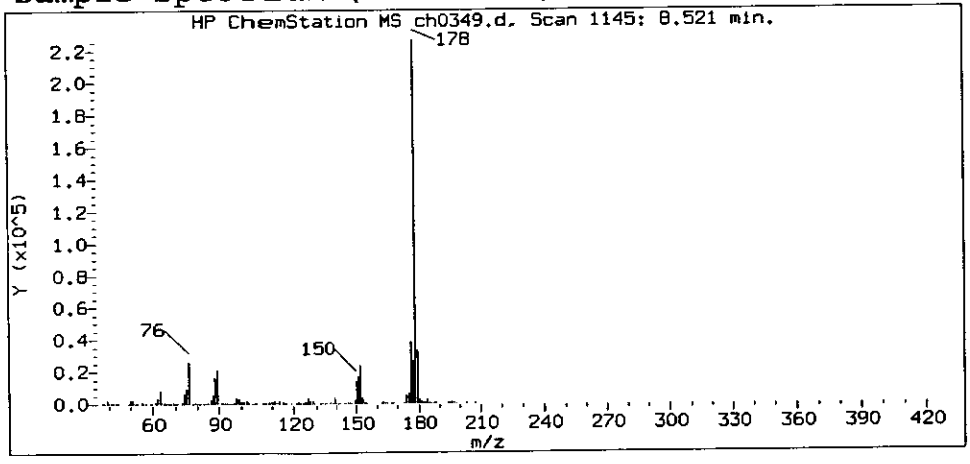


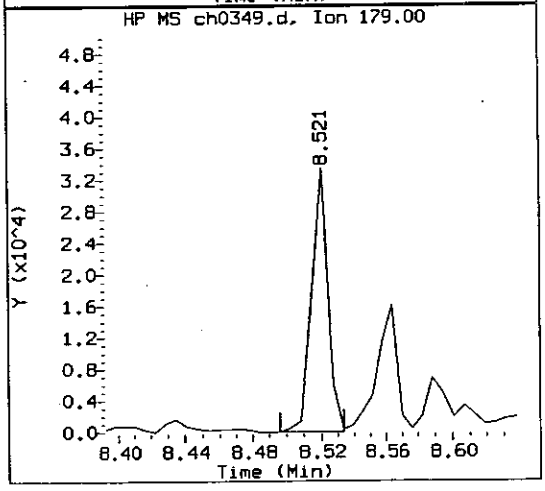
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

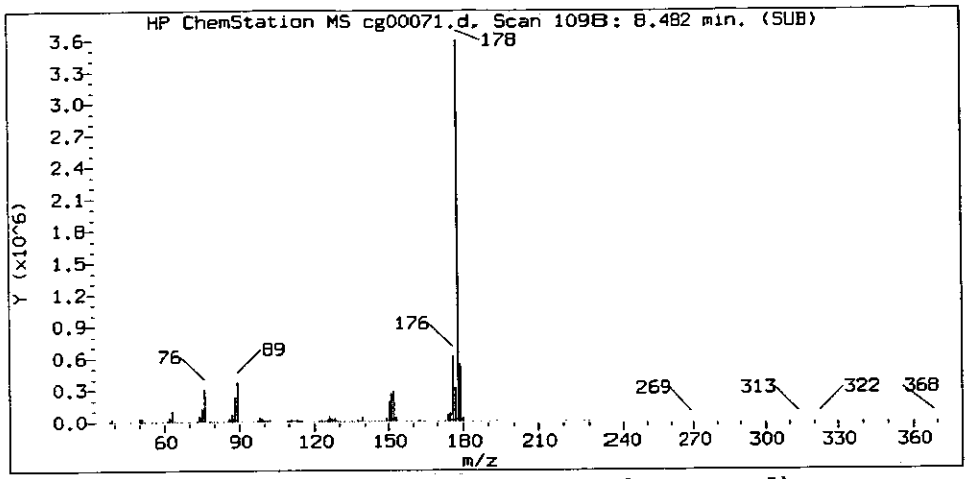
Sample Name: FD801DL

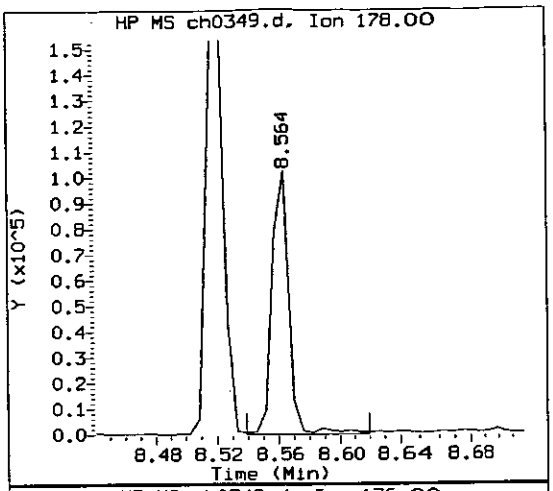
Lab Sample ID: 5118306DL

Compound Number	: 121
Compound Name	: Phenanthrene
Scan Number	: 1145
Retention Time (minutes)	: 8.521
Quant Ion	: 178.0
Area (flag)	: 146205
Concentration (ng/ul)	: 16.7367

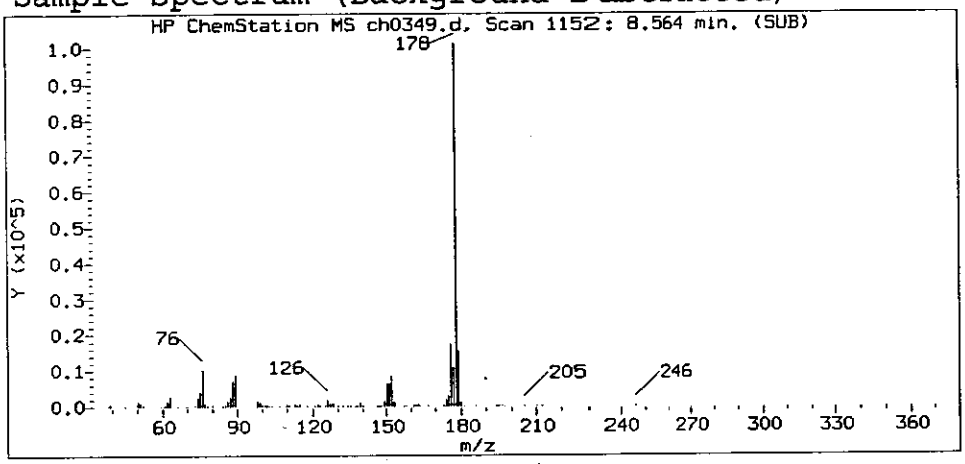
0239

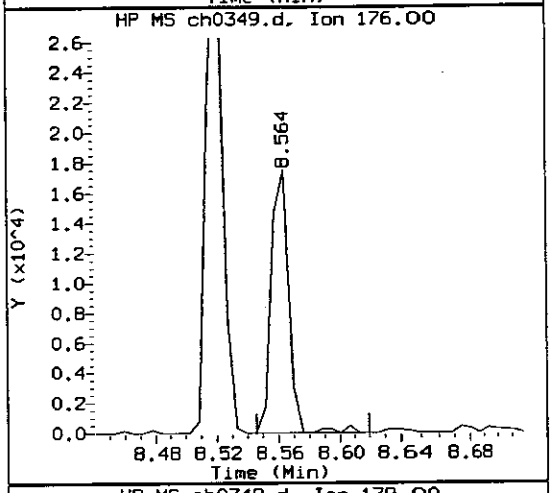
Reference Standard Spectrum for Anthracene



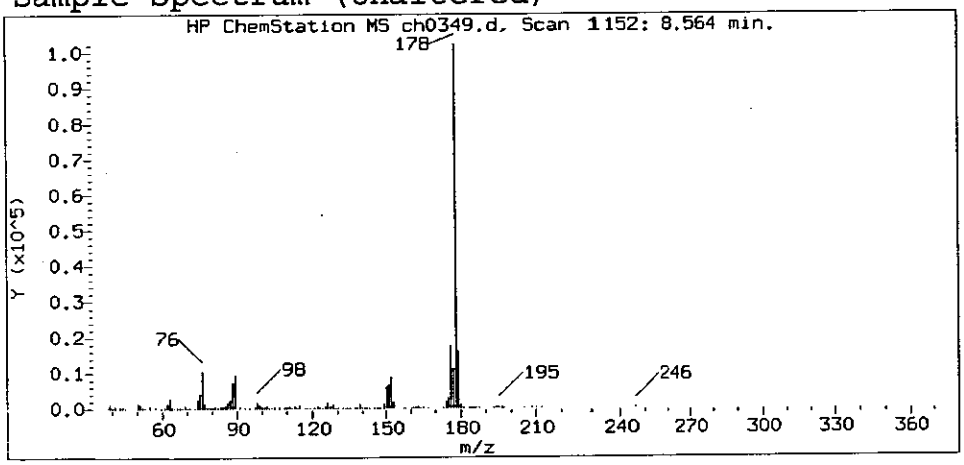


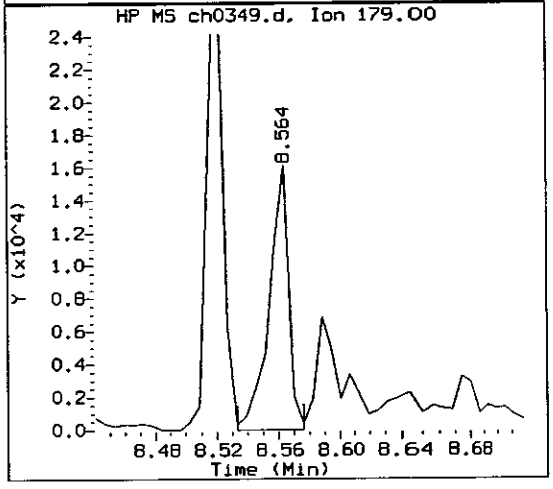
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

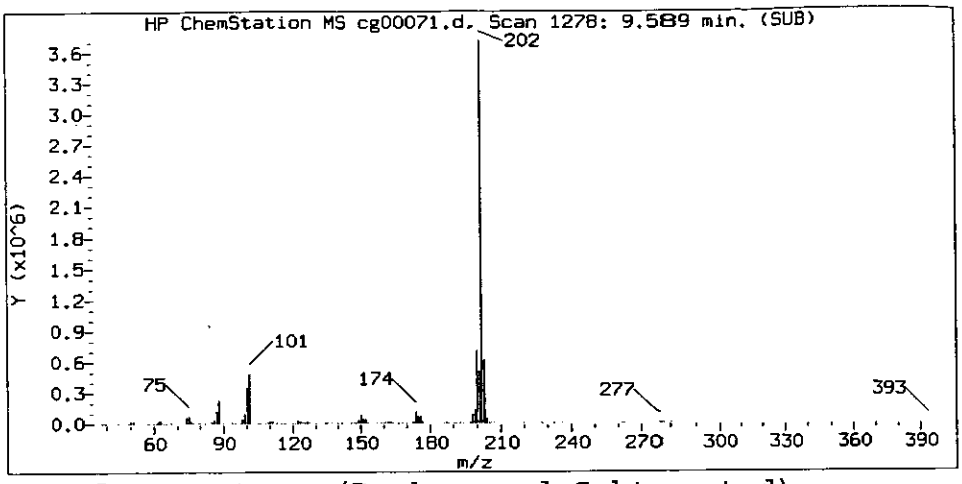
Sample Name: FD801DL

Lab Sample ID: 5118306DL

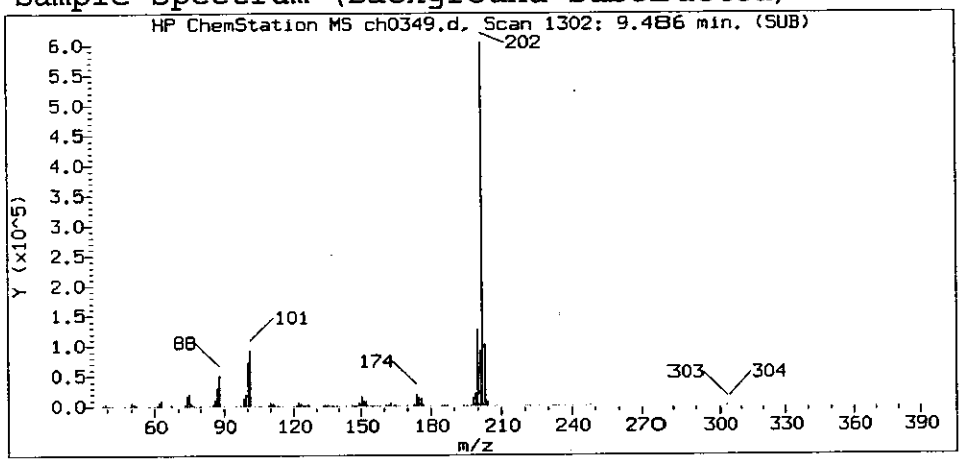
Compound Number	: 124
Compound Name	: Anthracene
Scan Number	: 1152
Retention Time (minutes)	: 8.564
Quant Ion	: 178.0
Area (flag)	: 79258
Concentration (ng/ul)	: 8.7954

0240

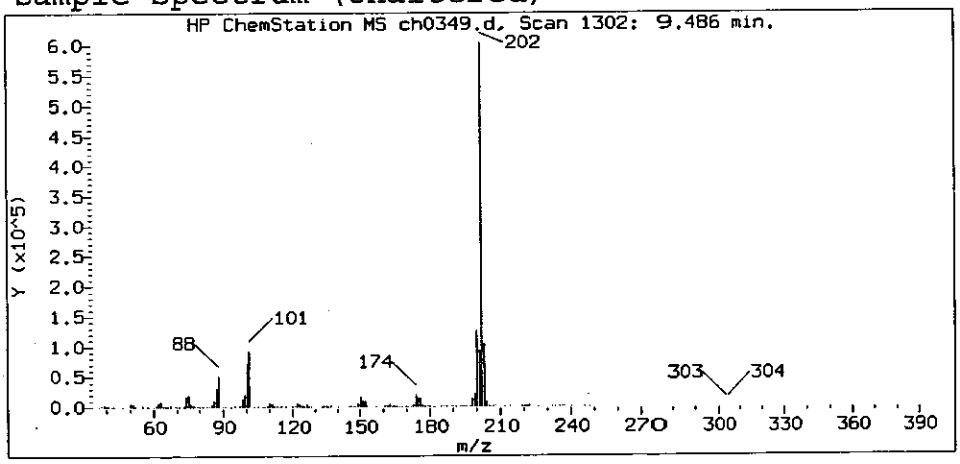
Reference Standard Spectrum for Fluoranthene

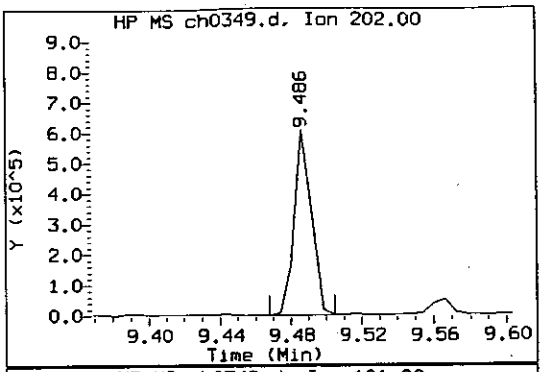


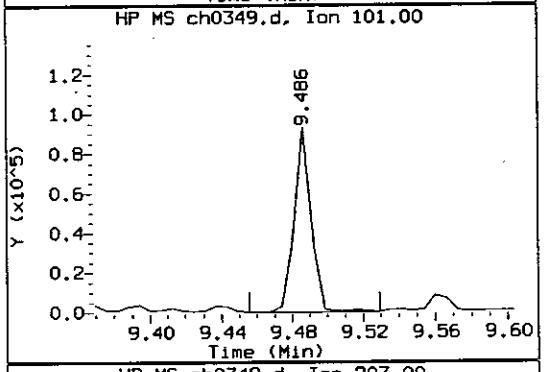
Sample Spectrum (Background Subtracted)

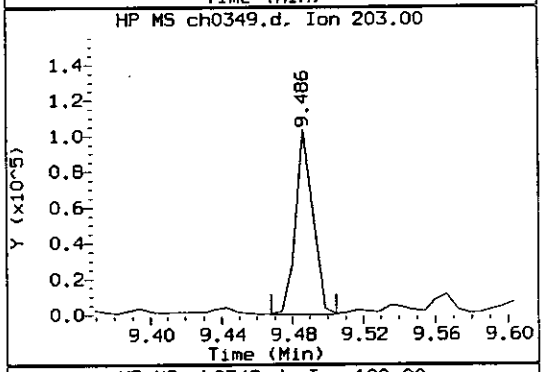


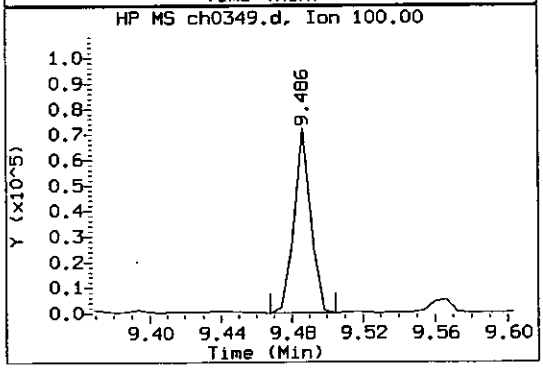
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

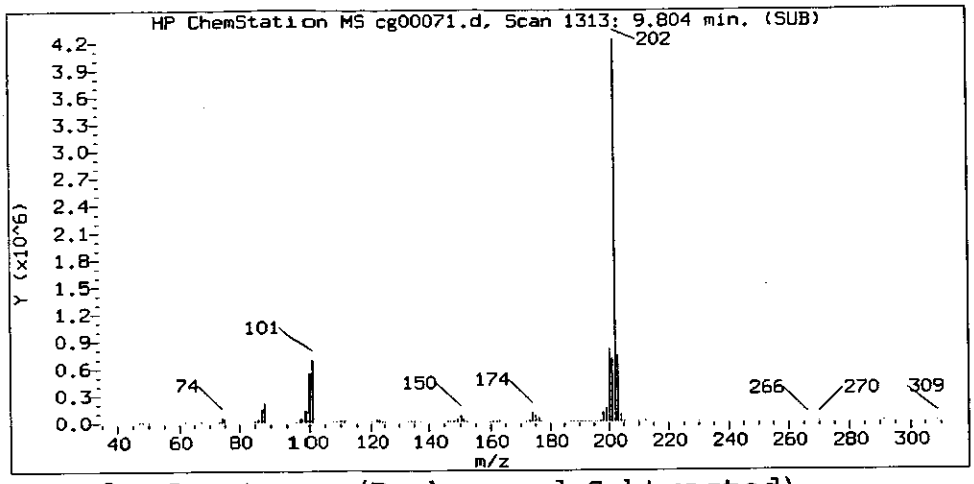
Sample Name: FD801DL

Lab Sample ID: 5118306DL

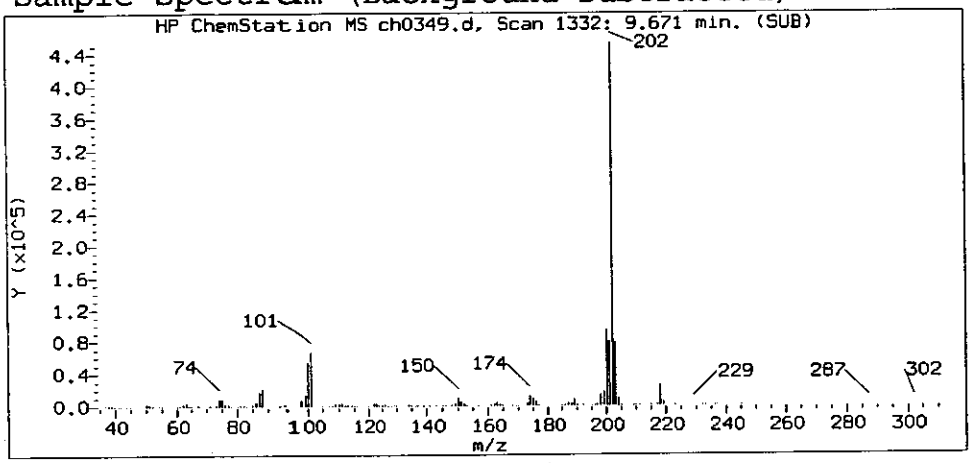
Compound Number	: 134
Compound Name	: Fluoranthene
Scan Number	: 1302
Retention Time (minutes)	: 9.486
Quant Ion	: 202.0
Area (flag)	: 408844
Concentration (ng/ul)	: 41.7732

0241

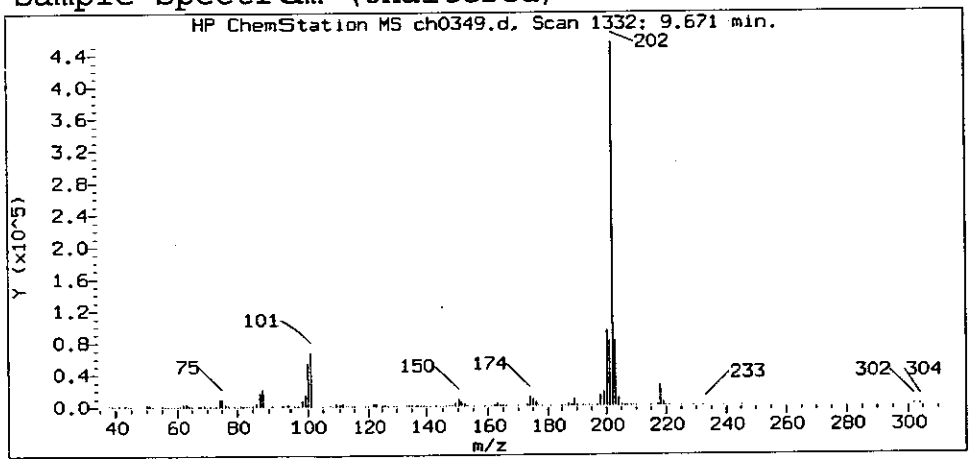
Reference Standard Spectrum for Pyrene

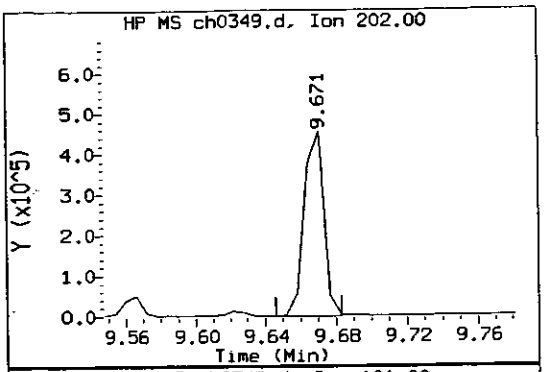


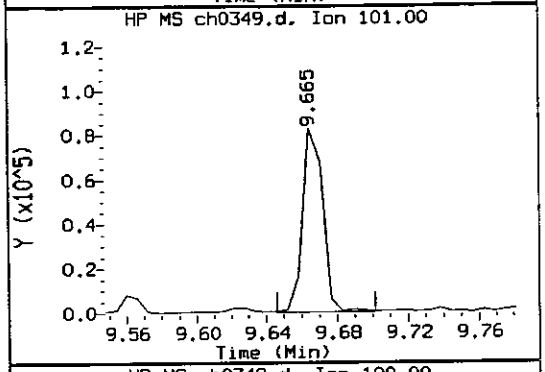
Sample Spectrum (Background Subtracted)

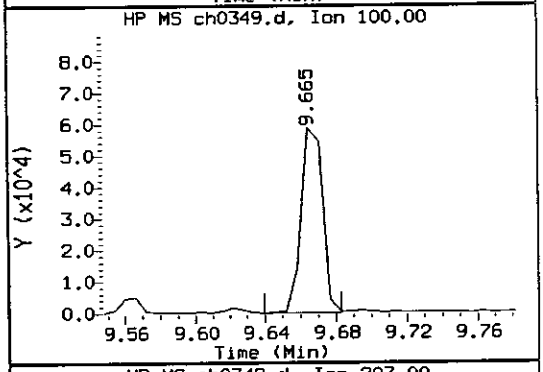


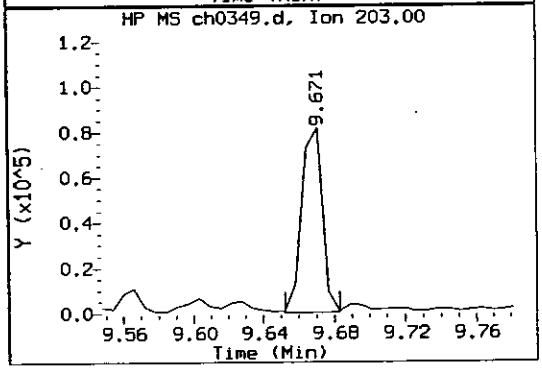
Sample Spectrum (Unaltered)











Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

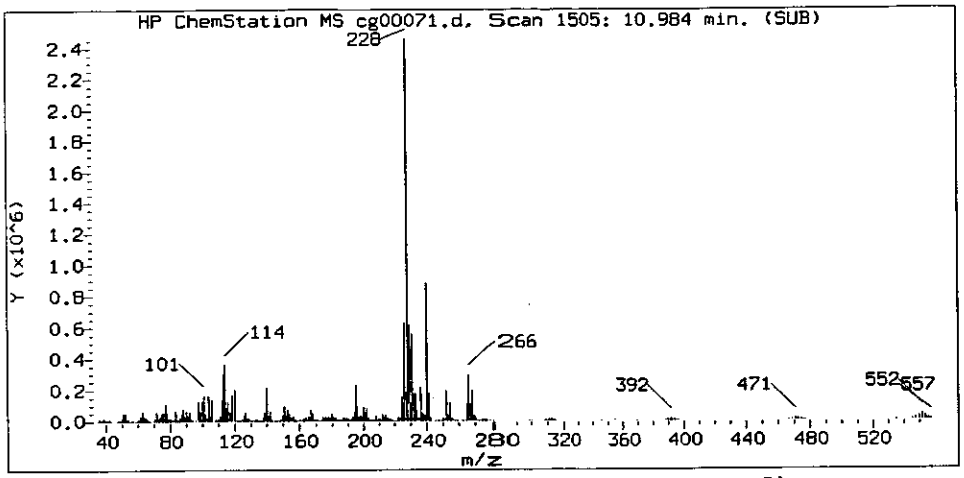
Sample Name: FD801DL

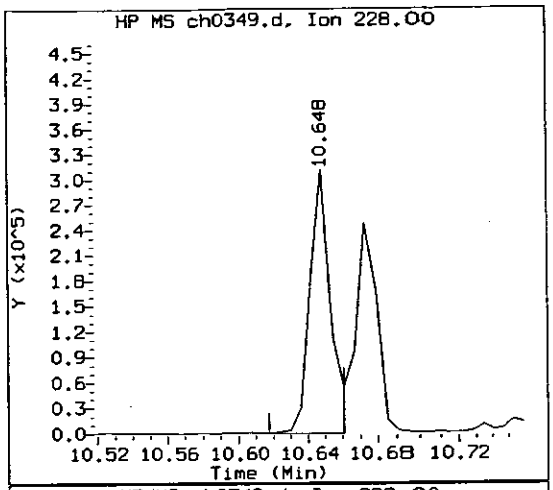
Lab Sample ID: 5118306DL

Compound Number	: 136
Compound Name	: Pyrene
Scan Number	: 1332
Retention Time (minutes)	: 9.671
Quant Ion	: 202.0
Area (flag)	: 347281
Concentration (ng/ul)	: 42.7983

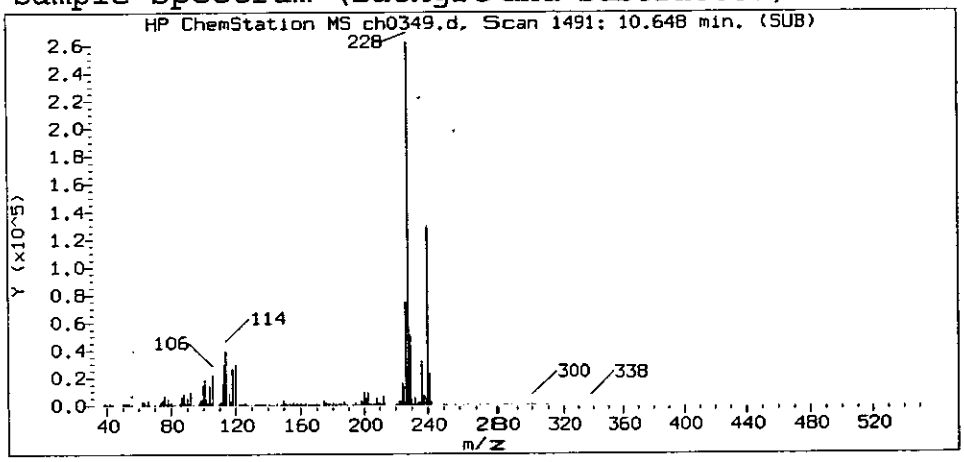
8242

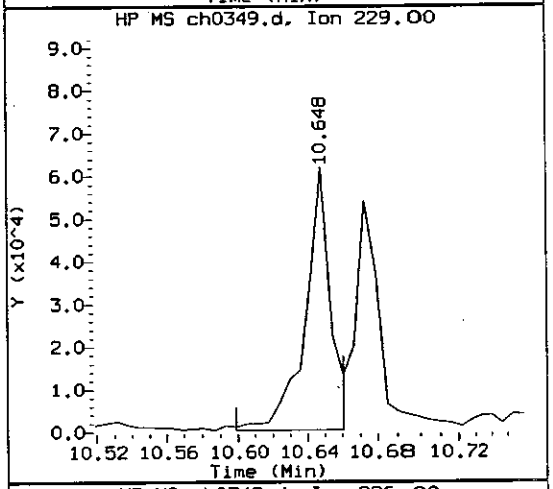
Reference Standard Spectrum for Benzo(a)anthracene



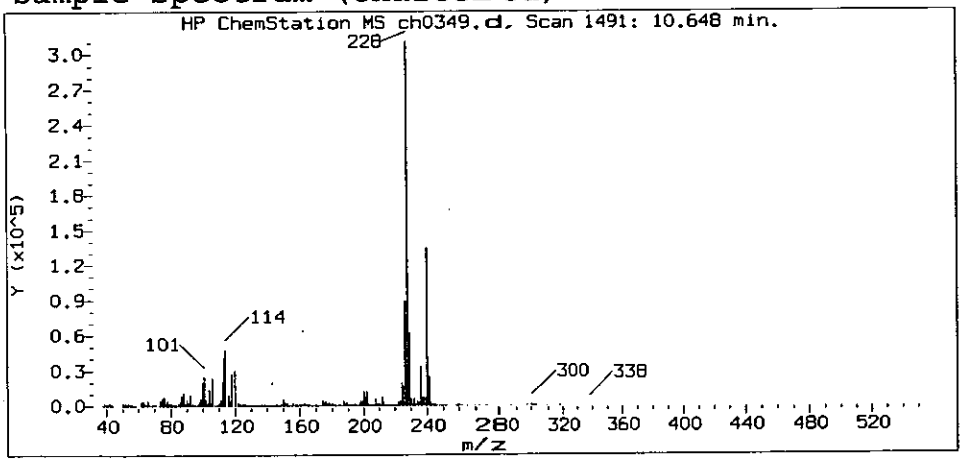


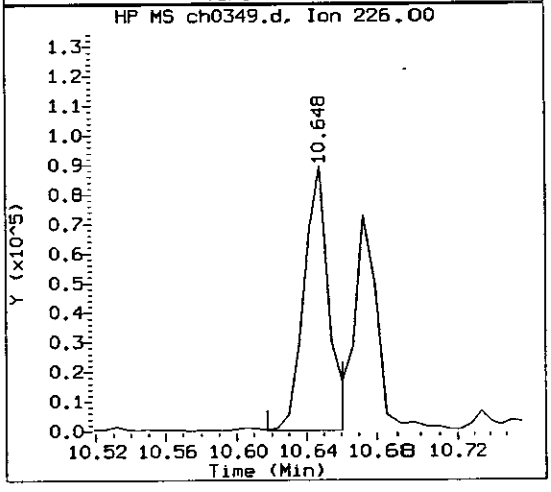
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

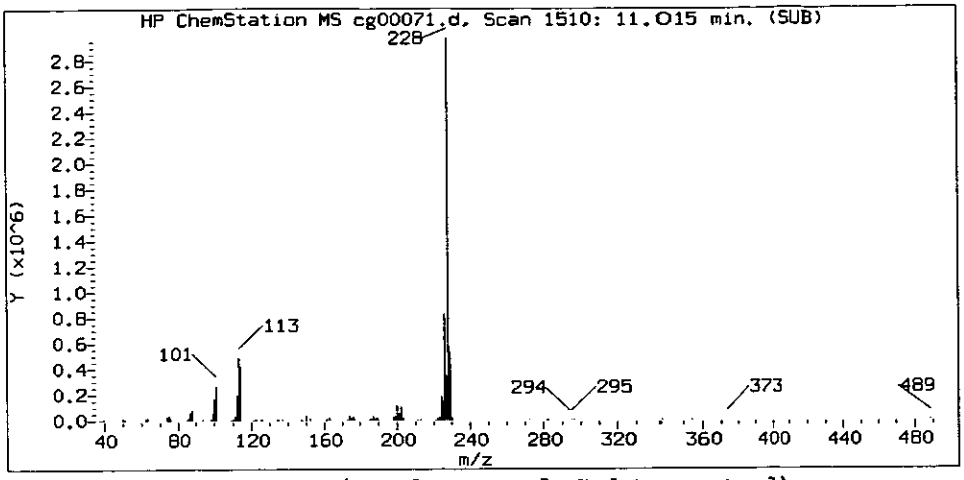
Sample Name: FD801DL

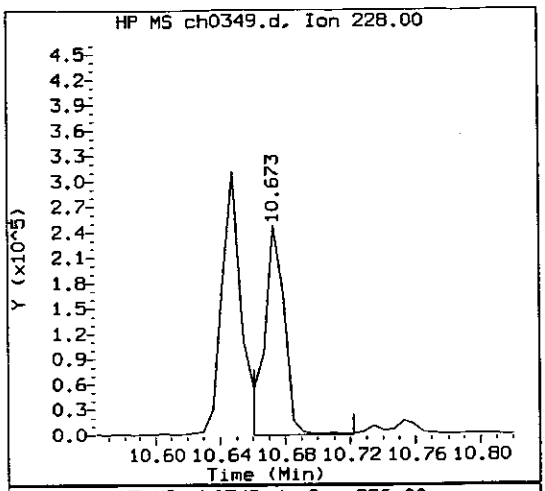
Lab Sample ID: 5118306DL

Compound Number	: 146
Compound Name	: Benzo(a)anthracene
Scan Number	: 1491
Retention Time (minutes)	: 10.648
Quant Ion	: 228.0
Area (flag)	: 246852
Concentration (ng/ul)	: 33.6692

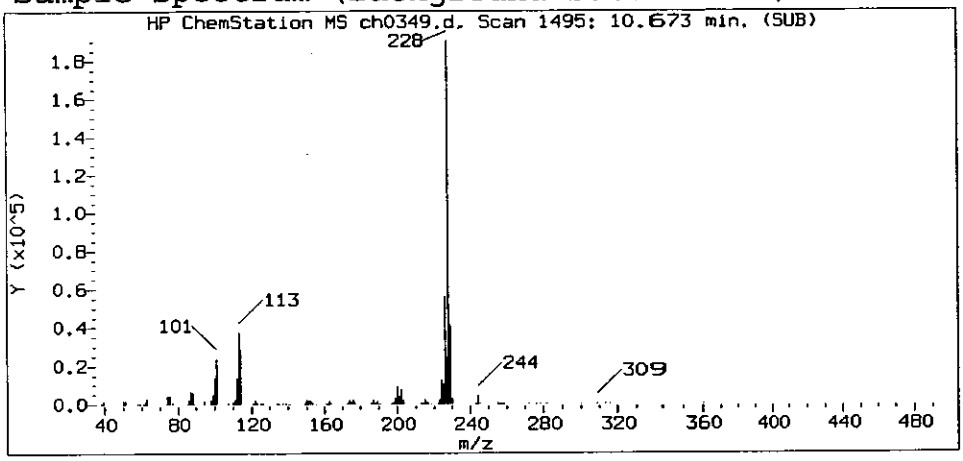
0243

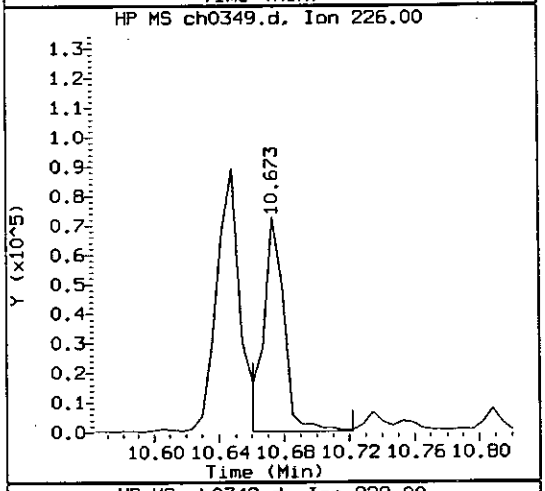
Reference Standard Spectrum for Chrysene



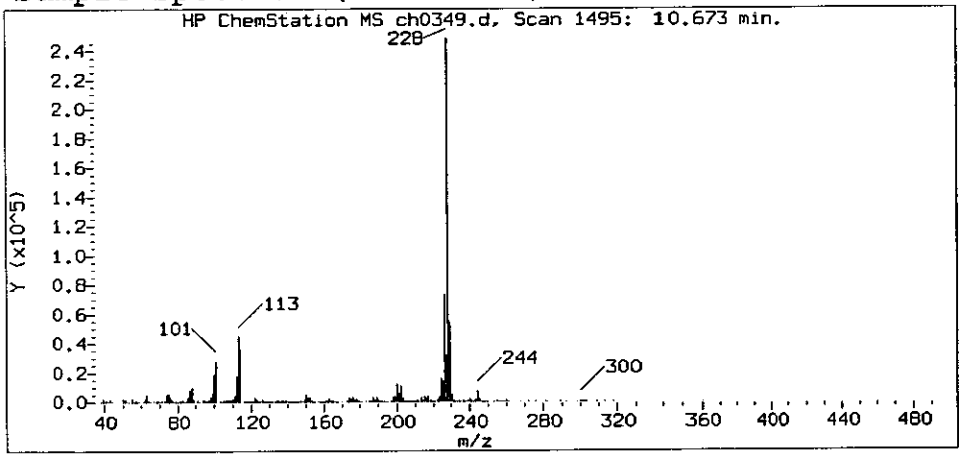


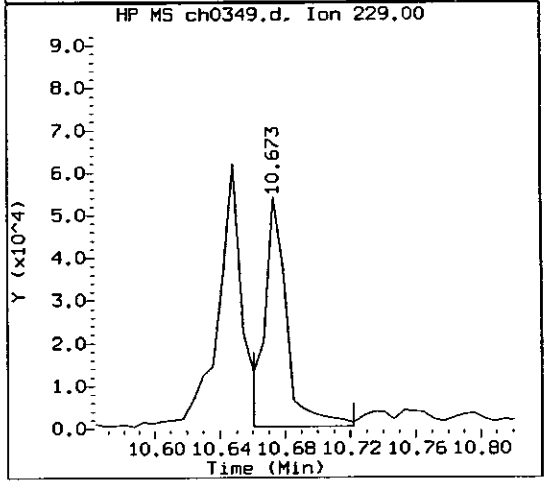
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

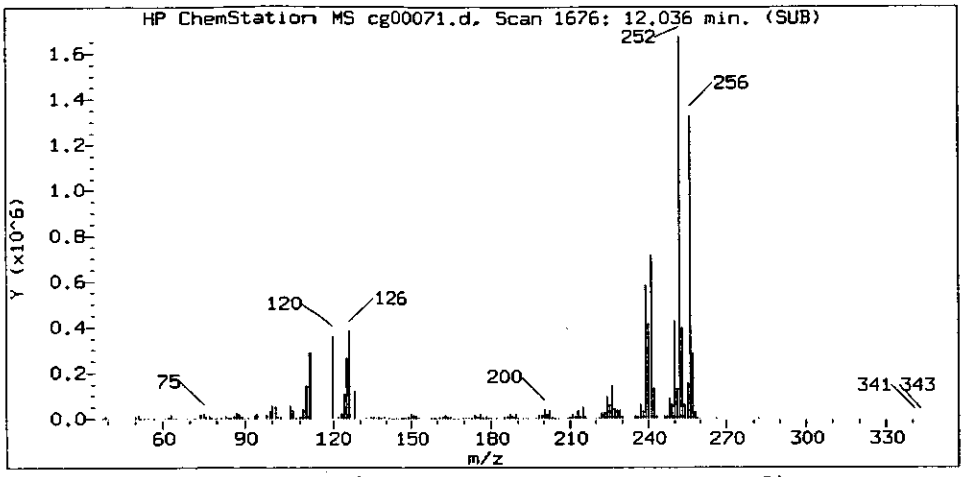
Sample Name: FD801DL

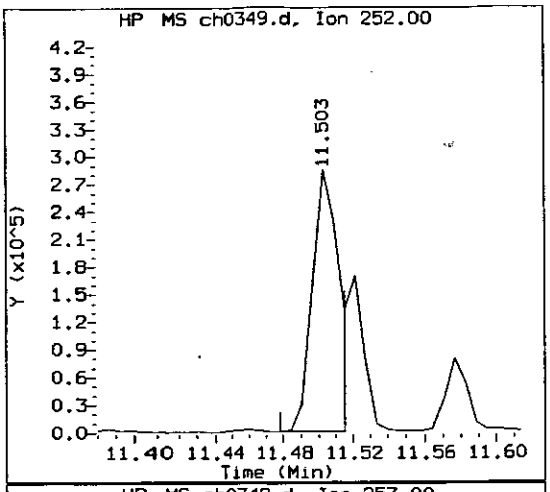
Lab Sample ID: 5118306DL

Compound Number	: 150
Compound Name	: Chrysene
Scan Number	: 1495
Retention Time (minutes)	: 10.673
Quant Ion	: 228.0
Area (flag)	: 208108
Concentration (ng/ul)	: 28.7628

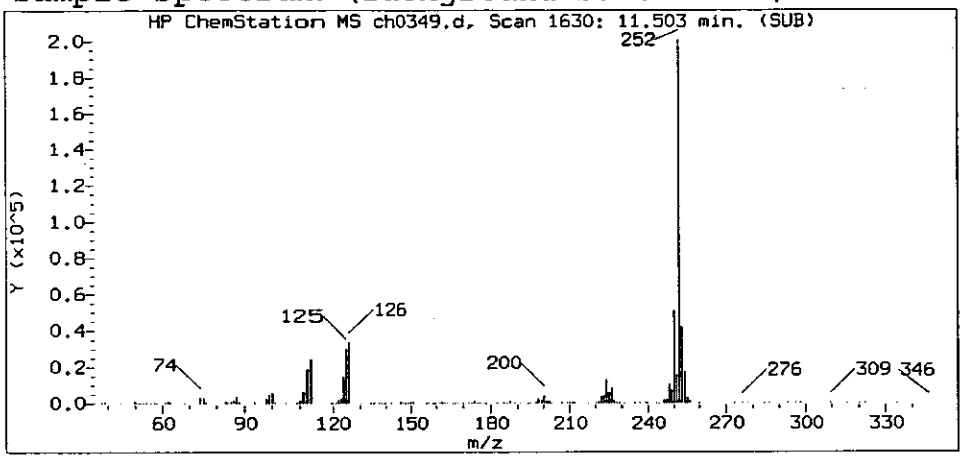
8244

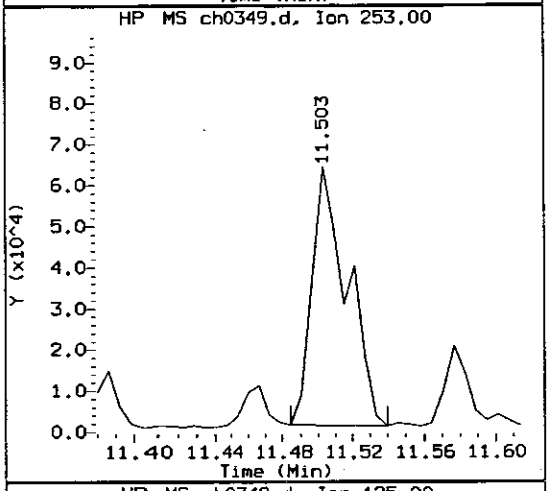
Reference Standard Spectrum for Benzo(b)fluoranthene



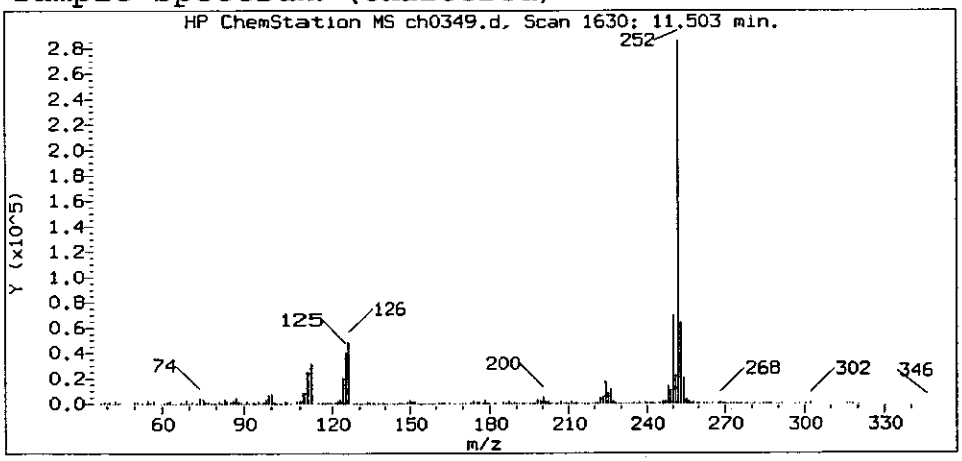


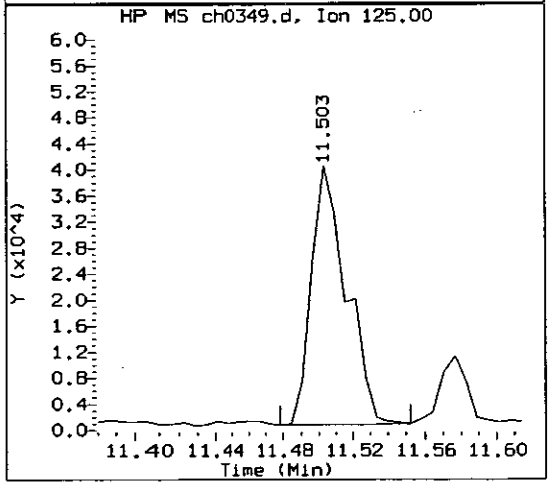
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

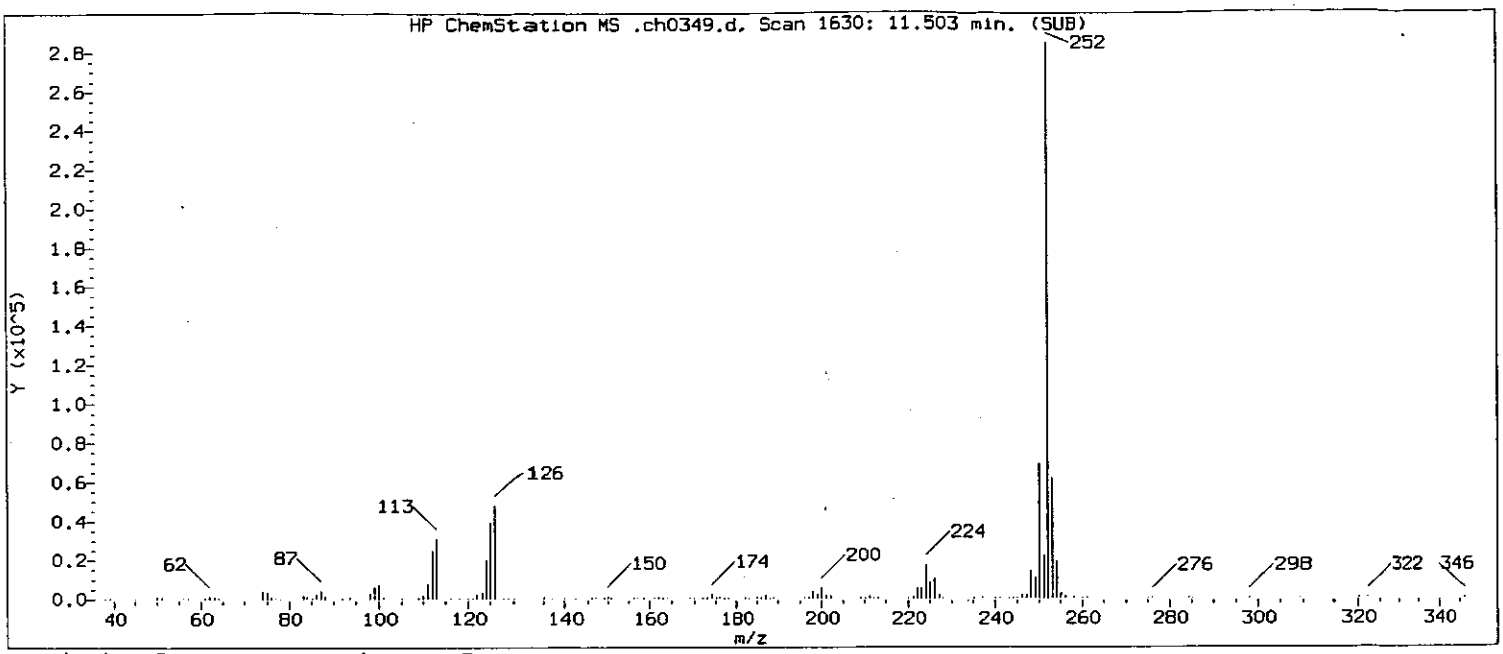
Sample Name: FD801DL

Lab Sample ID: 5118306DL

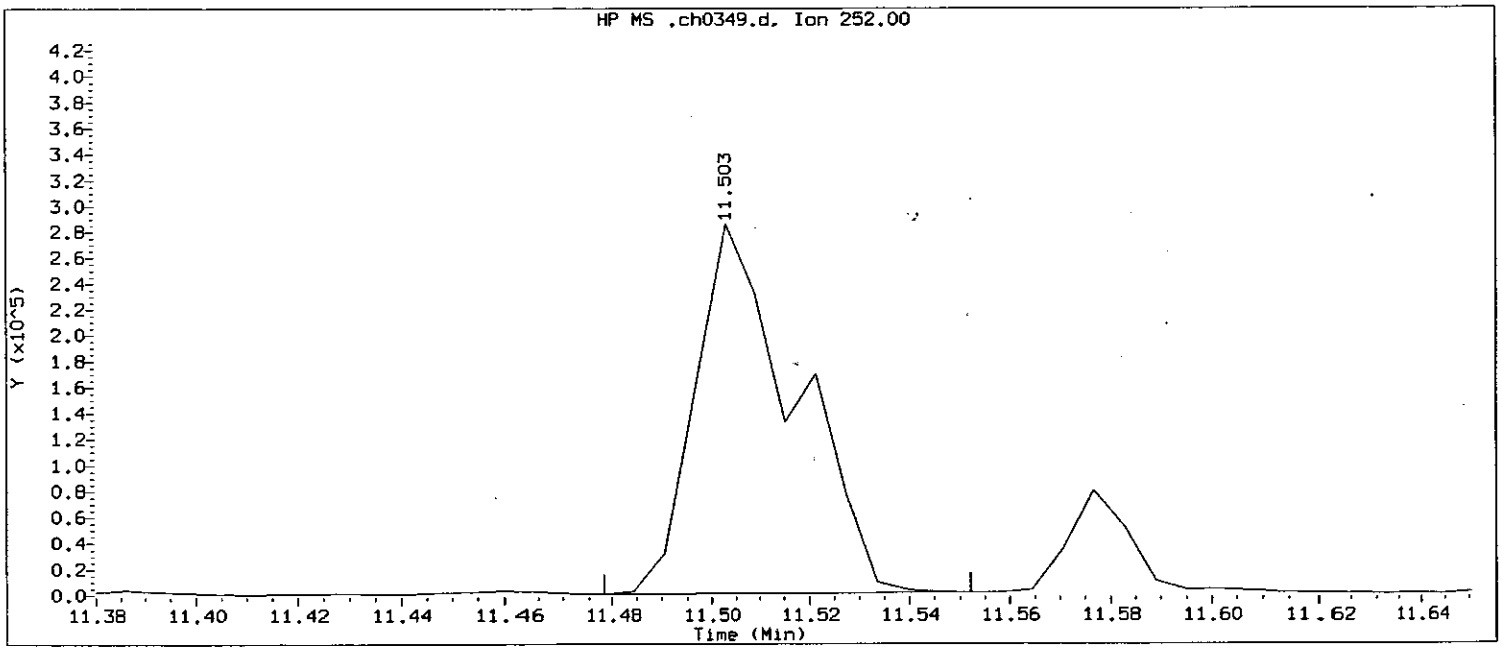
Compound Number	: 158
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1630
Retention Time (minutes)	: 11.503
Quant Ion	: 252.0
Area (flag)	: 310064 M
Concentration (ng/ul)	: 41.8385

8245

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:31 Automation

Sample Name: FD801DL Lab Sample ID: 5118306DL

Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1630
Retention Time (minutes)	:	11.503
Quant Ion	:	252
Area	:	403709
Concentration (ng/ul)	:	54.4745
Integration start scan	:	1625
Y at integration start	:	1049

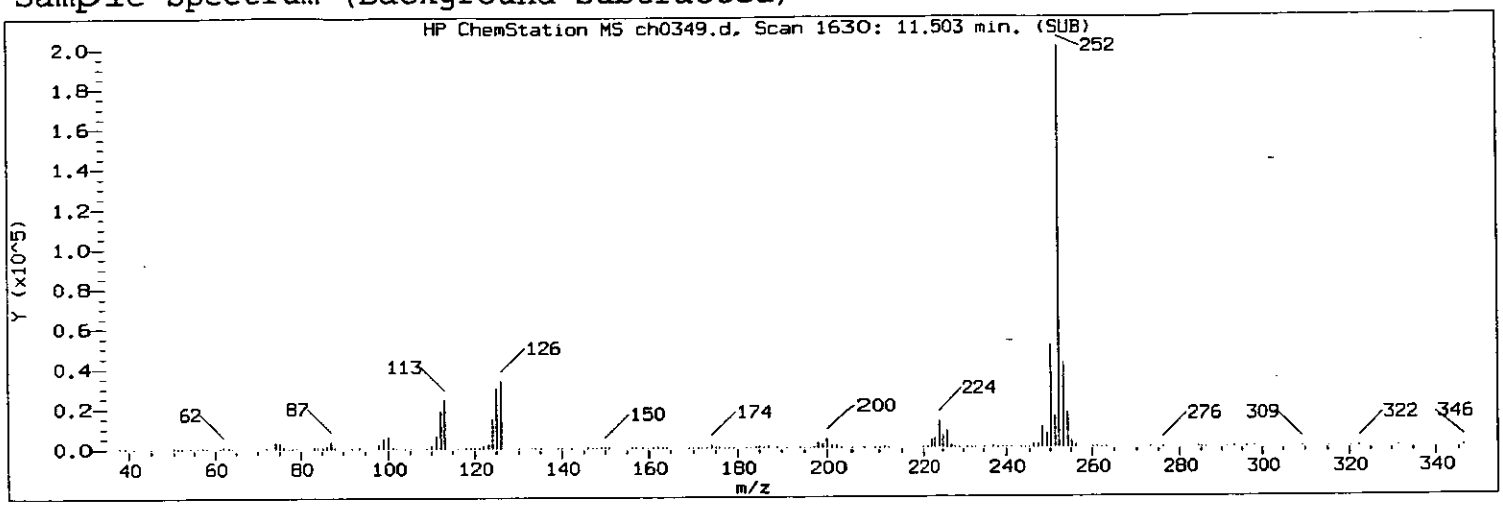
Integration stop scan: 1637
Y at integration end: 2219

BGM 8/13/07

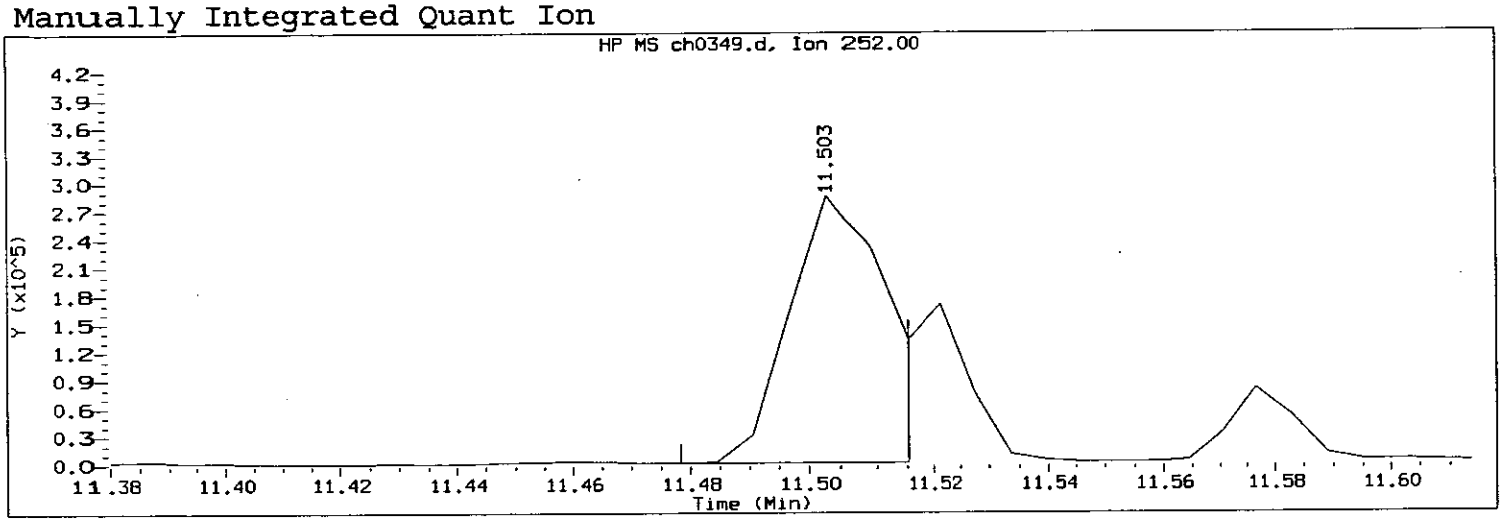
0246

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0349.d, generated on 08/13/2007 at 05:05

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: FD801DL Lab Sample ID: 5118306DL

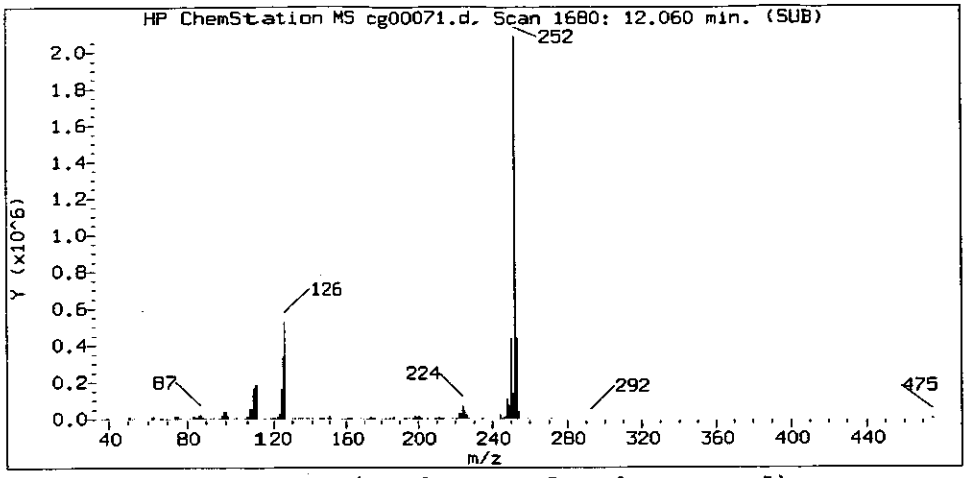
Compound Number	: 158	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1630	
Retention Time (minutes)	: 11.503	
Quant Ion	: 252	
Area (flag)	: 310064	M
Concentration (ng/ul)	: 41.8385	
Integration start scan	: 1625	Integration stop scan: 1631
Y at integration start	: 1049	Y at integration end: 1633

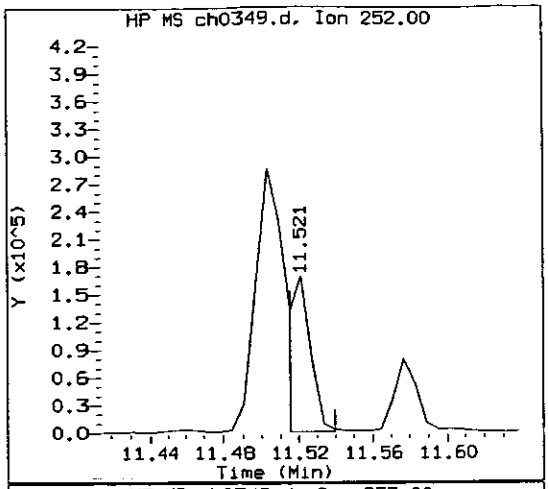
Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: [signature] 8/13/07

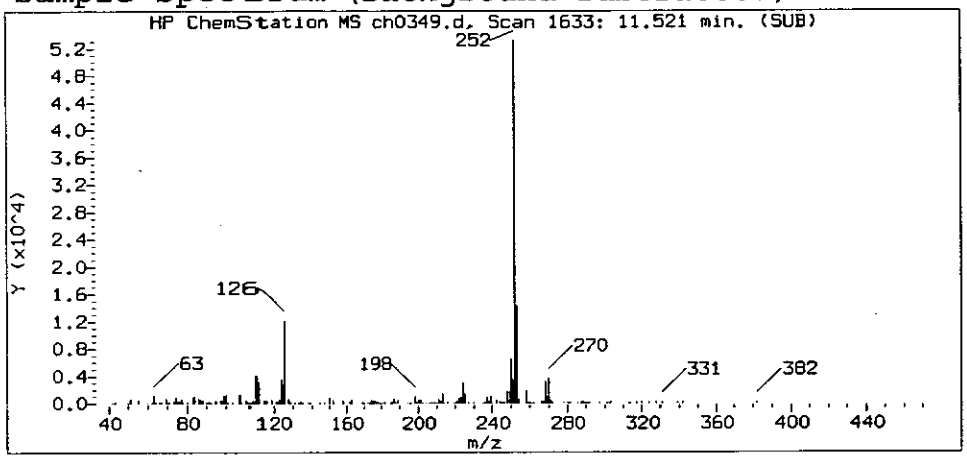
GC/MS audit/management approval: [signature] 8/13/07

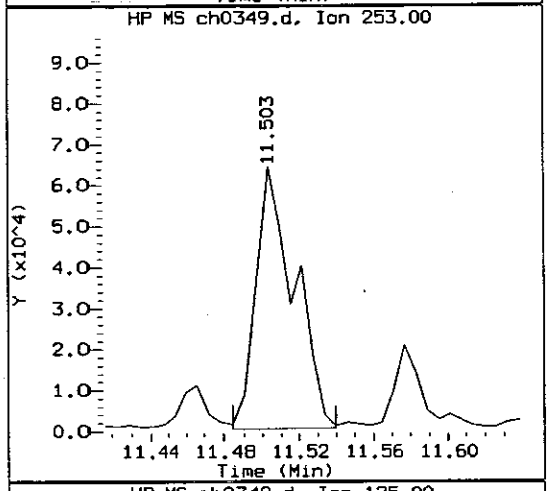
Reference Standard Spectrum for Benzo(k)fluoranthene



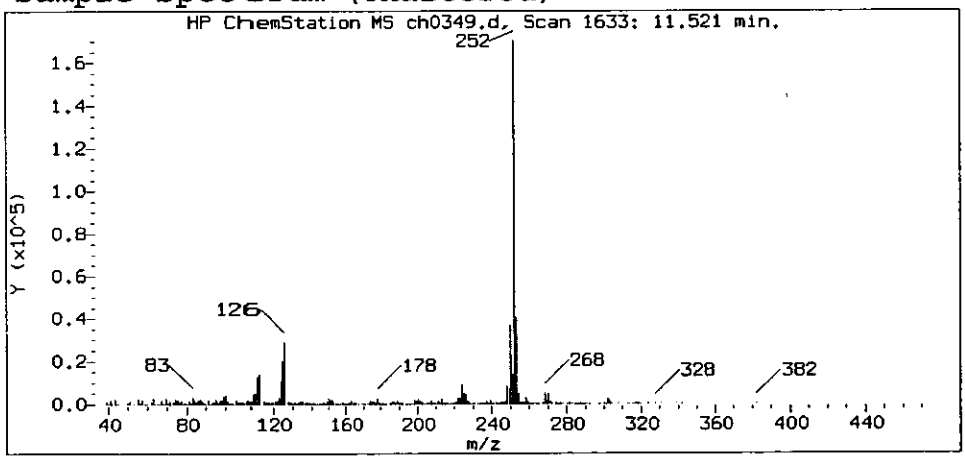


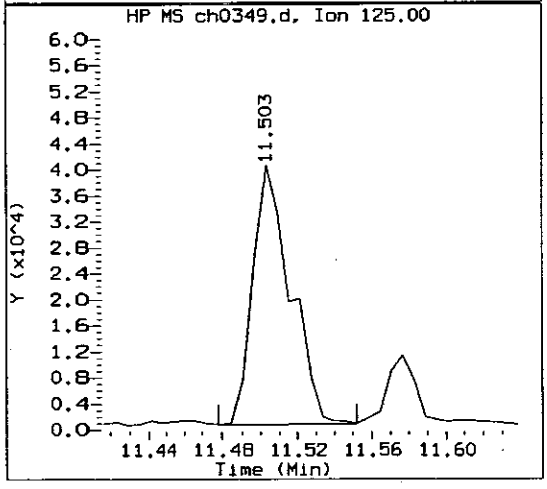
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

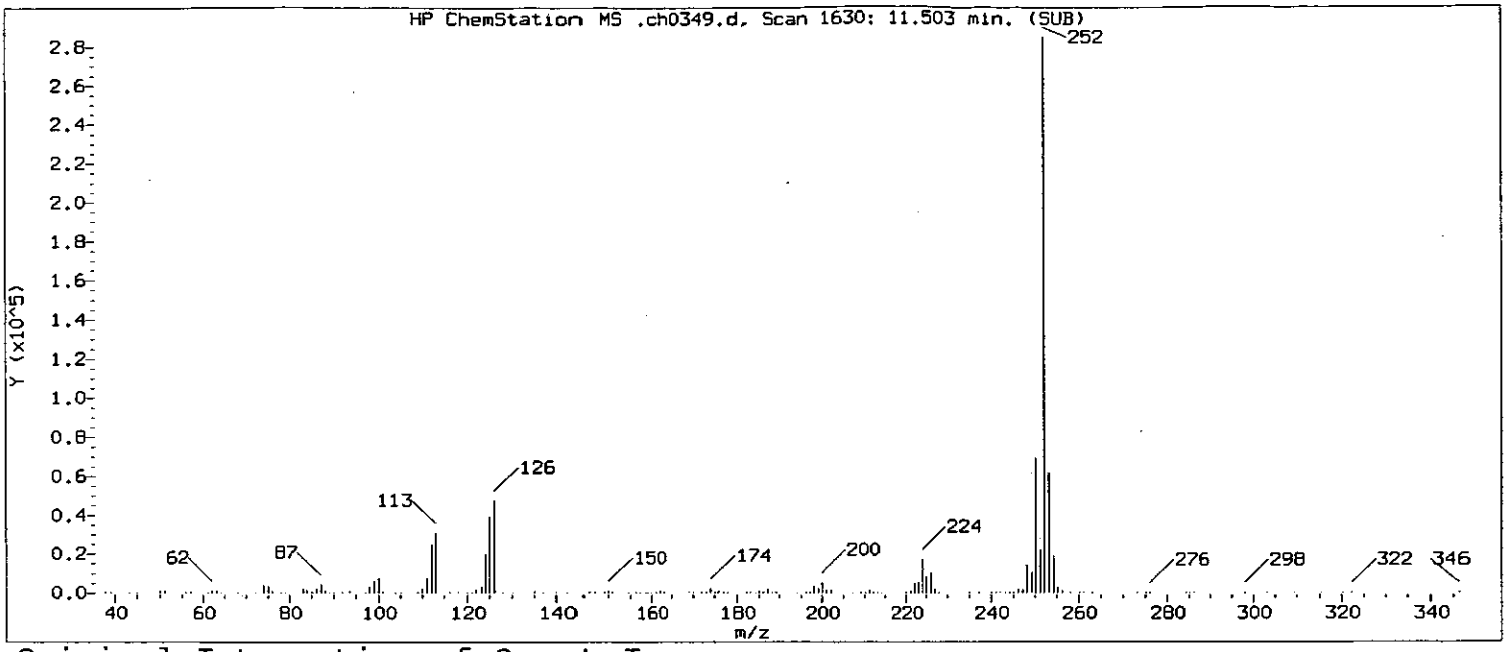
Sample Name: FD801DL

Lab Sample ID: 5118306DL

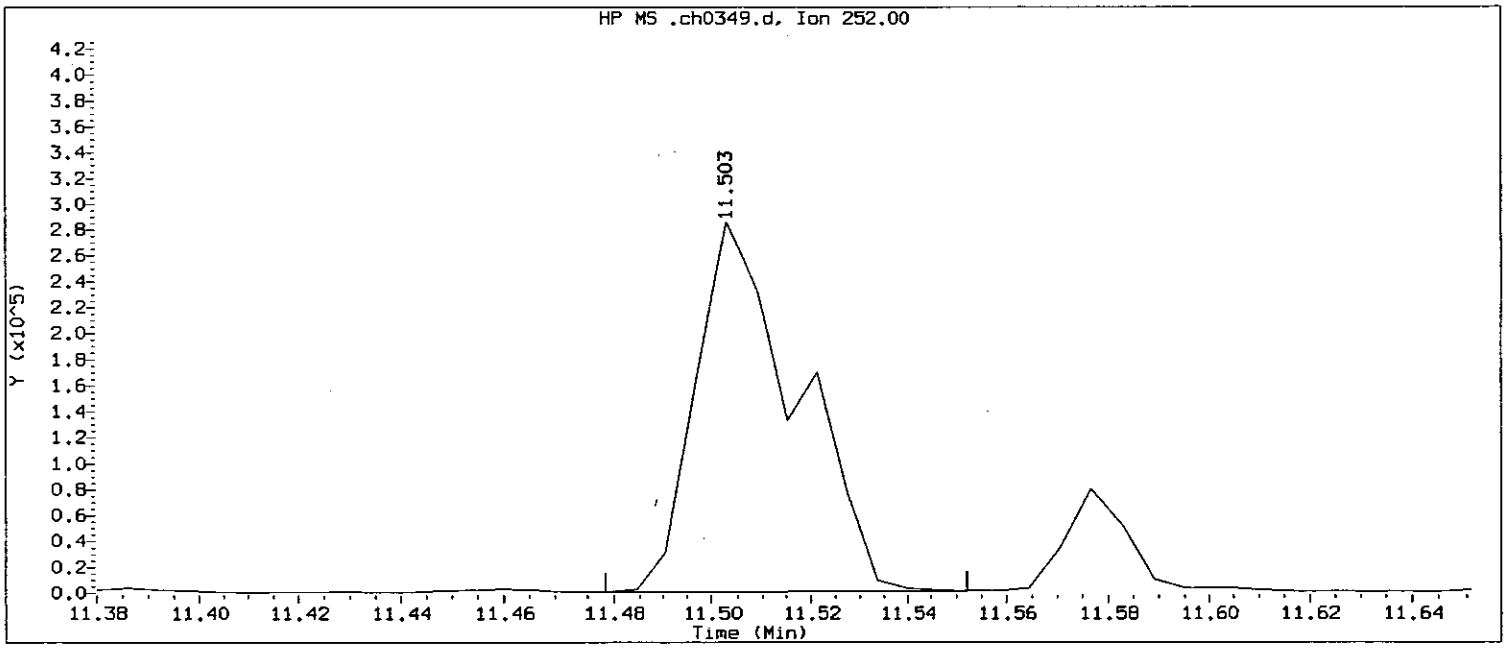
Compound Number : 159
Compound Name : Benzo(k)fluoranthene
Scan Number : 1633
Retention Time (minutes): 11.521
Quant Ion : 252.0
Area (flag) : 142145 M
Concentration (ng/ul) : 17.0670

8249

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:31 Automation

Sample Name: FD801DL Lab Sample ID: 5118306DL

Compound Number	:	159
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1630
Retention Time (minutes)	:	11.503
Quant Ion	:	252
Area	:	405847
Concentration (ng/ul)	:	48.7291
Integration start scan	:	1625
Y at integration start	:	1049

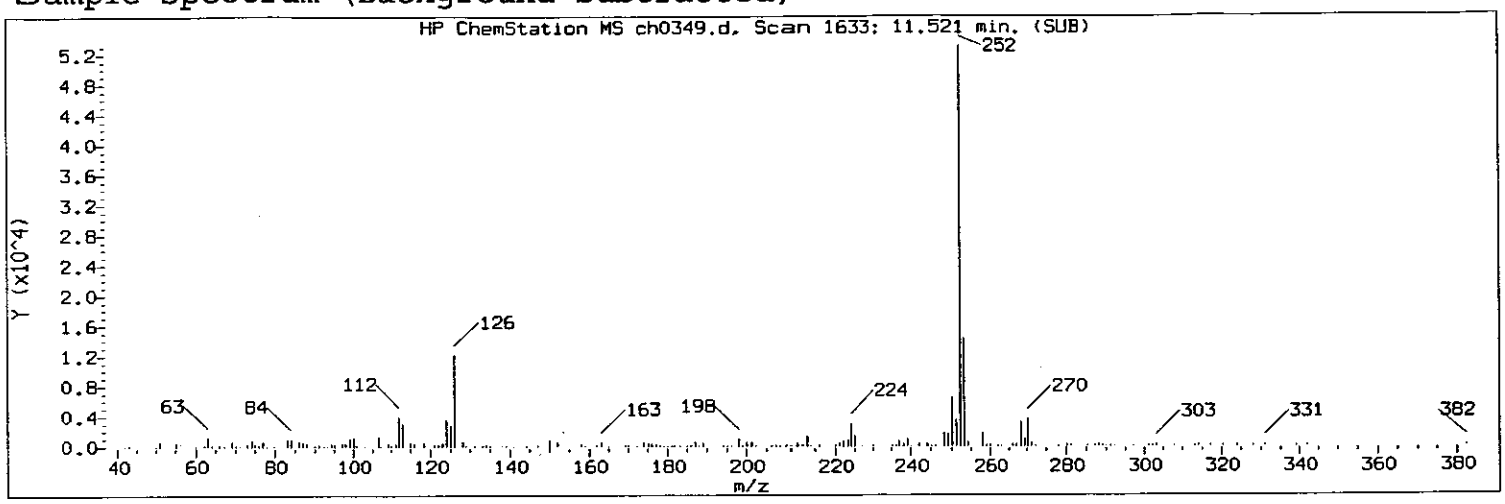
Integration stop scan: 1637
Y at integration end: 1253

BGon 8/13/07

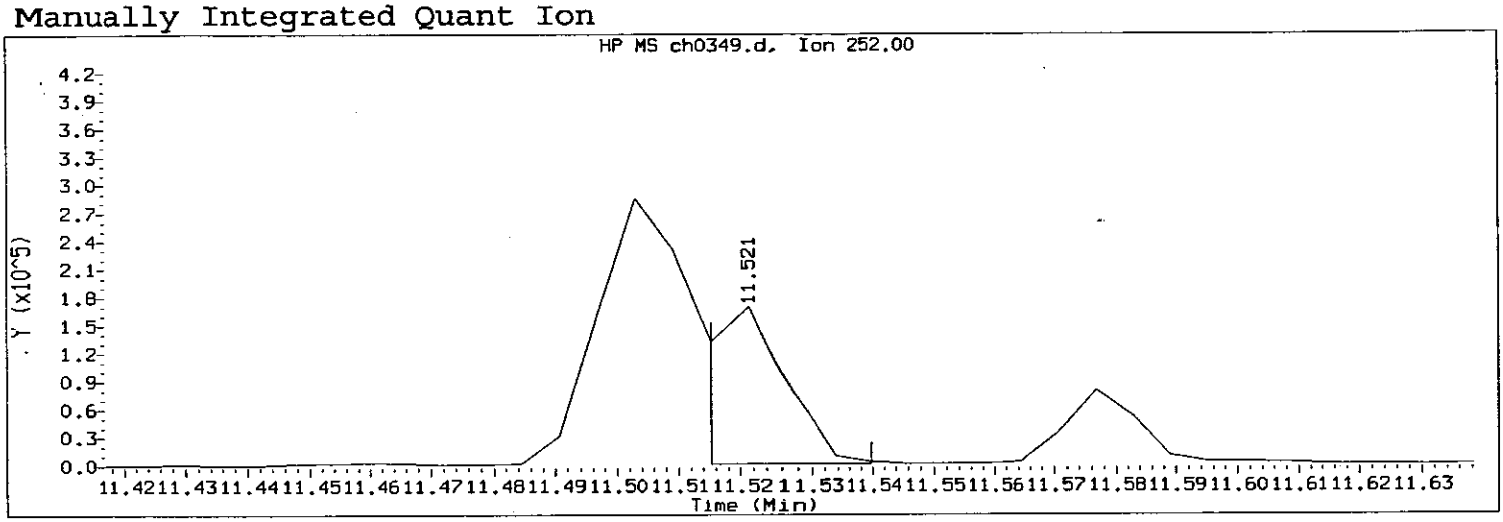
8249

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0349.d, generated on 08/13/2007 at 05:05

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: FD801DL Lab Sample ID: 5118306DL

Compound Number	: 159	
Compound Name	: Benzo(k)fluoranthene	
Scan Number	: 1633	
Retention Time (minutes)	: 11.521	
Quant Ion	: 252	
Area (flag)	: 142145	M
Concentration (ng/ul)	: 17.0670	
Integration start scan	: 1631	Integration stop scan: 1635
Y at integration start	: 1736	Y at integration end: 1736

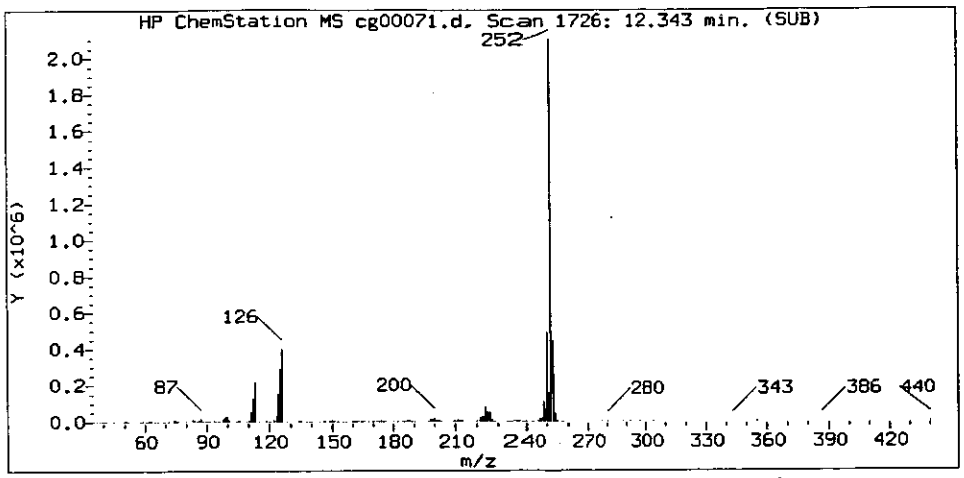
Reason for manual integration (circle one): missed peak (improper integratio

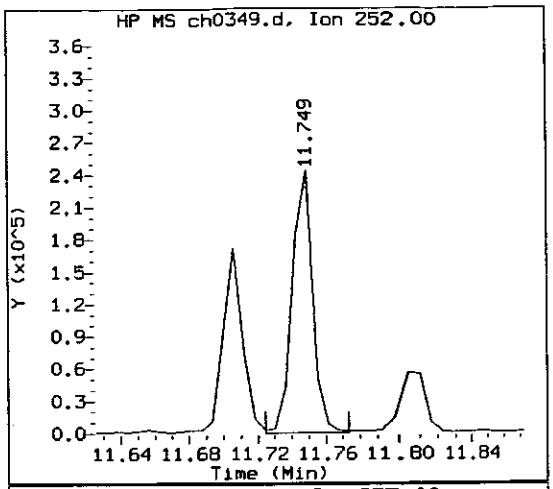
Analyst responsible for change: [signature] 8-13-07

0258

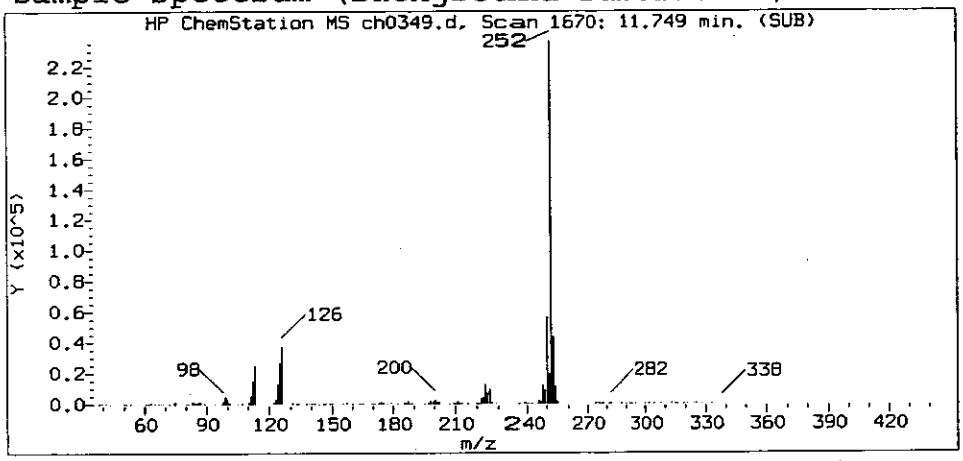
GC/MS audit/management approval: [signature] 8/13/07

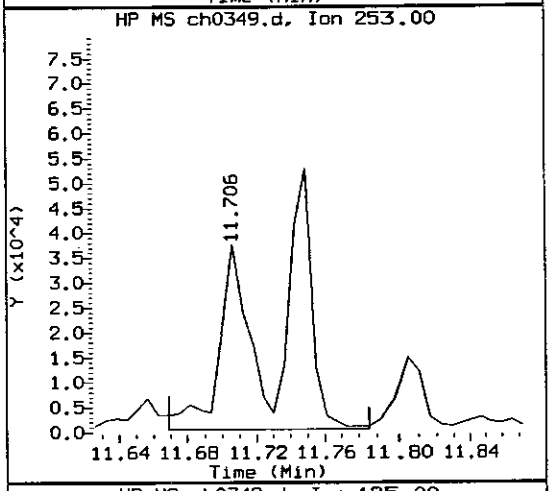
Reference Standard Spectrum for Benzo(a)pyrene



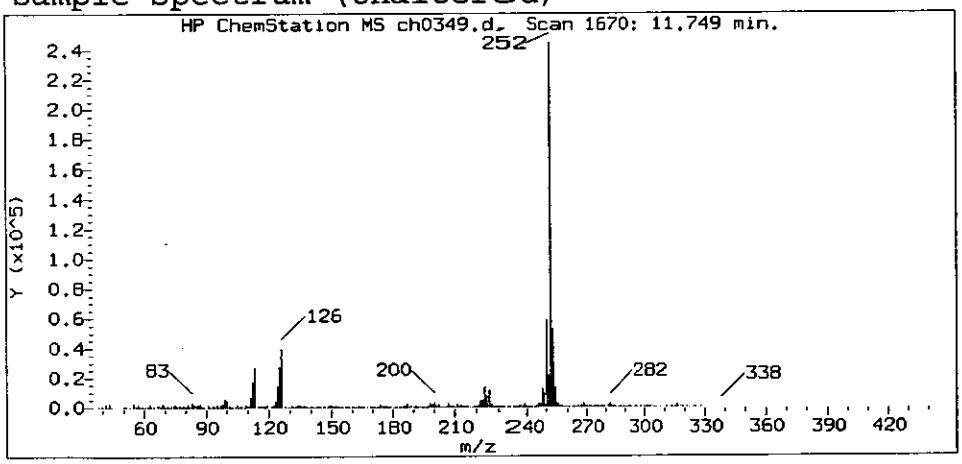


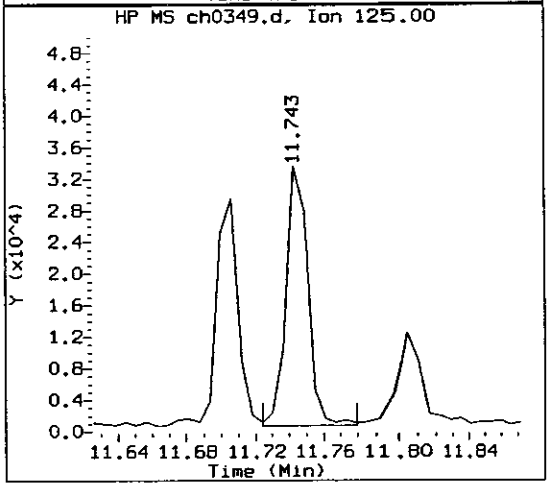
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

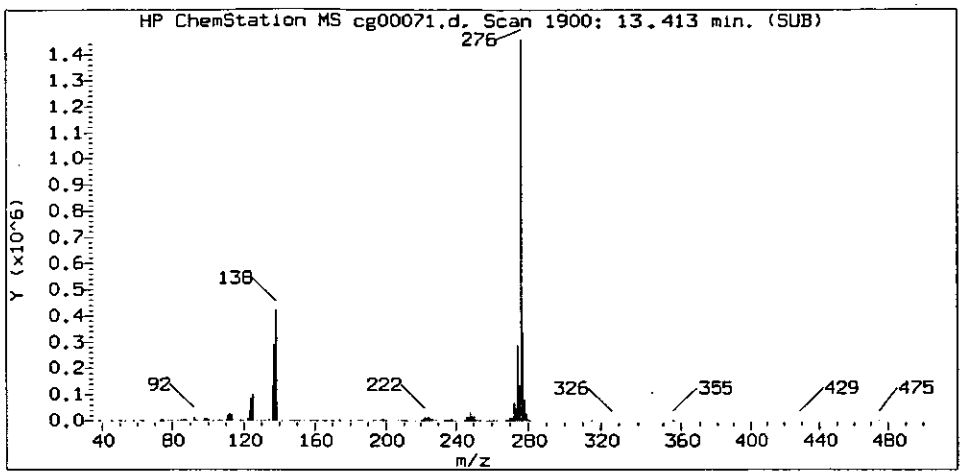
Sample Name: FD801DL

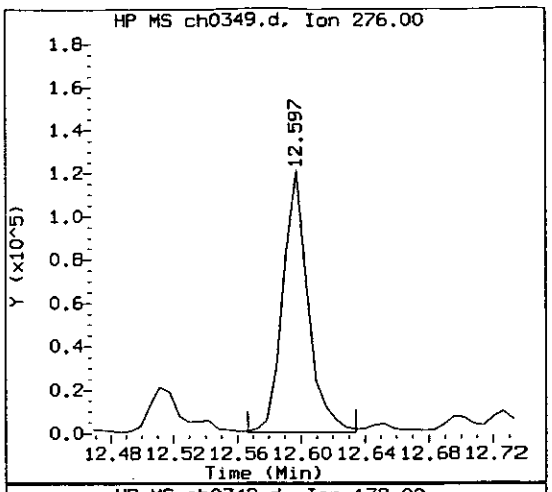
Lab Sample ID: 5118306DL

Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1670
Retention Time (minutes)	: 11.749
Quant Ion	: 252.0
Area (flag)	: 198817
Concentration (ng/ul)	: 27.3000

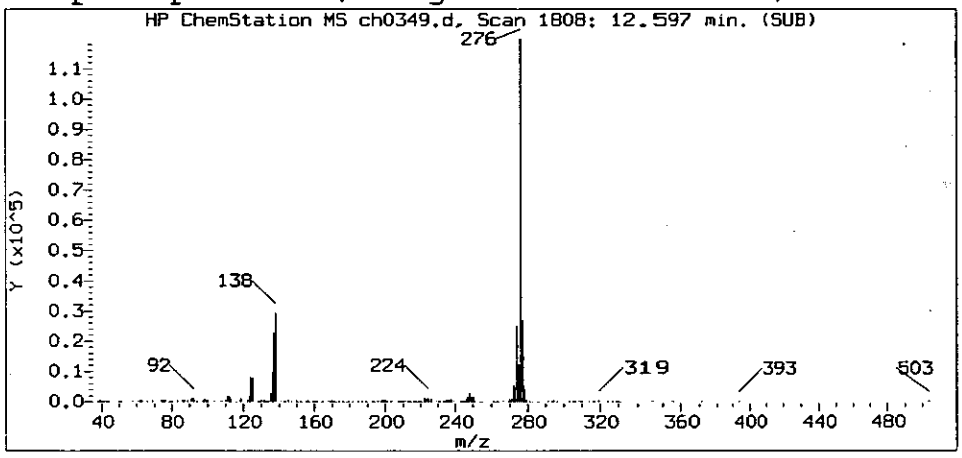
8251

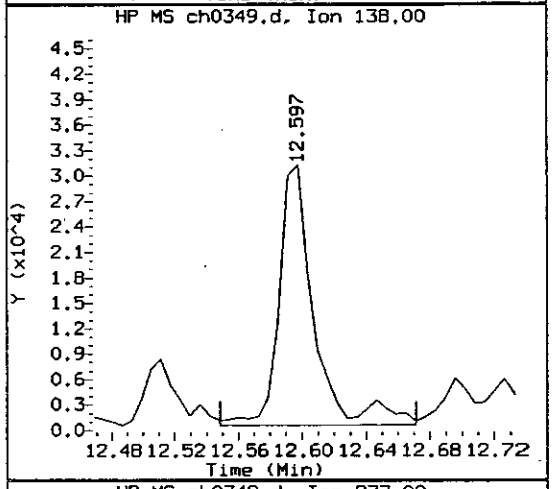
Reference Standard Spectrum for Indeno(1,2,3-cd)pyrene



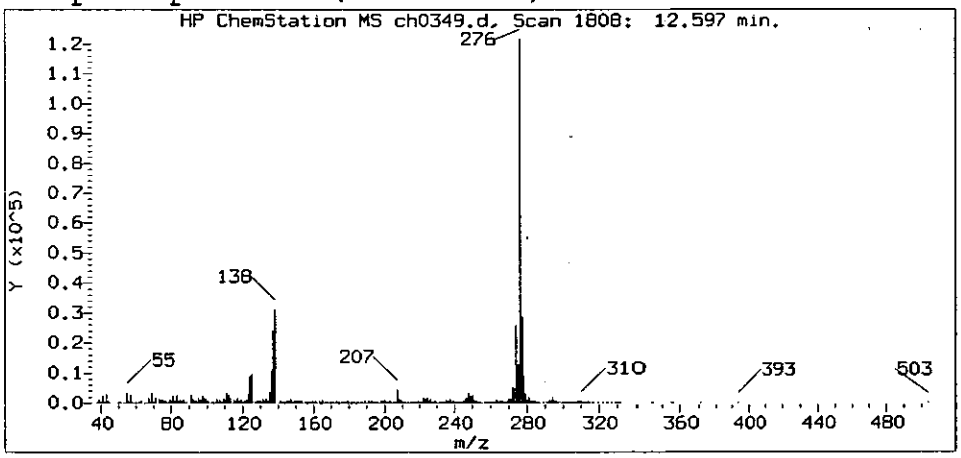


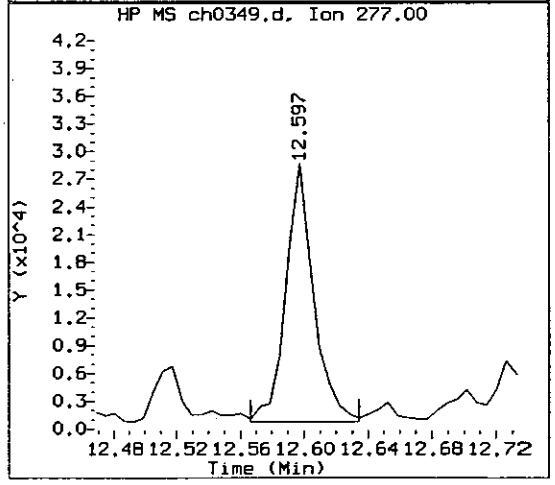
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

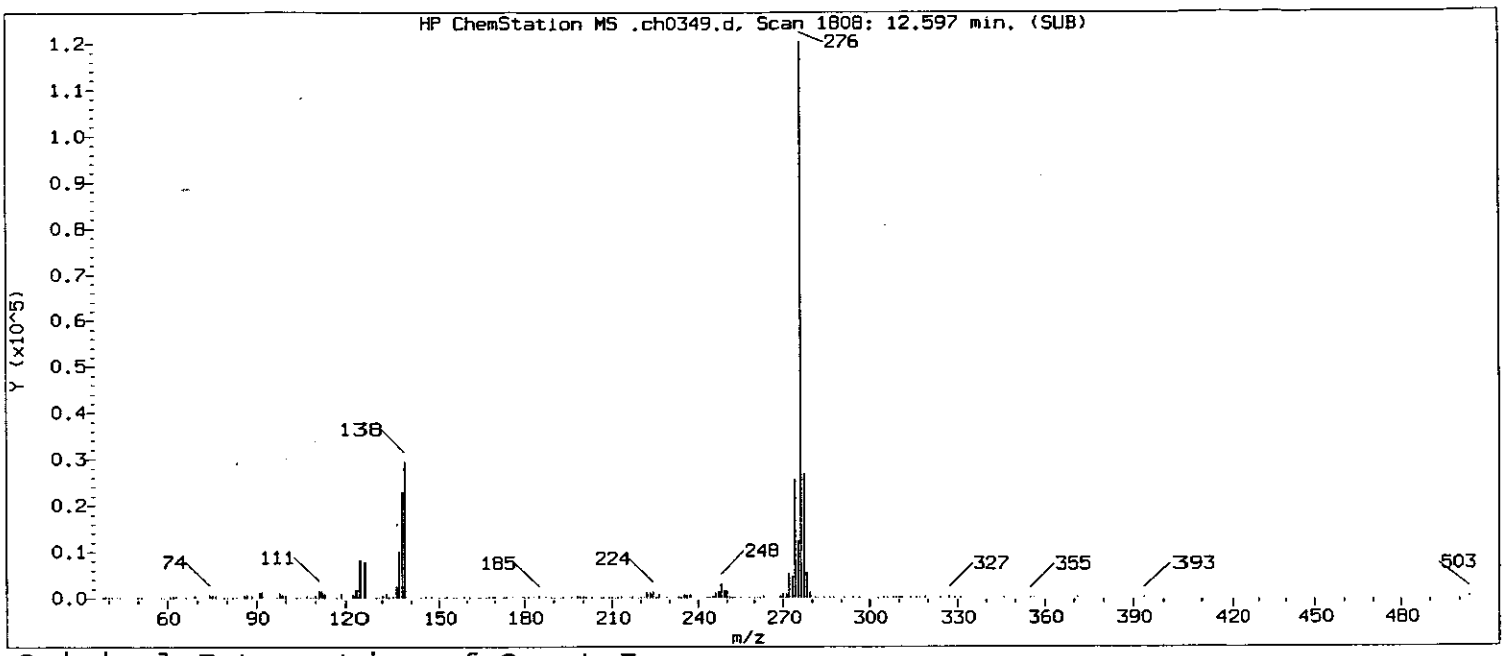
Sample Name: FD801DL

Lab Sample ID: 5118306DL

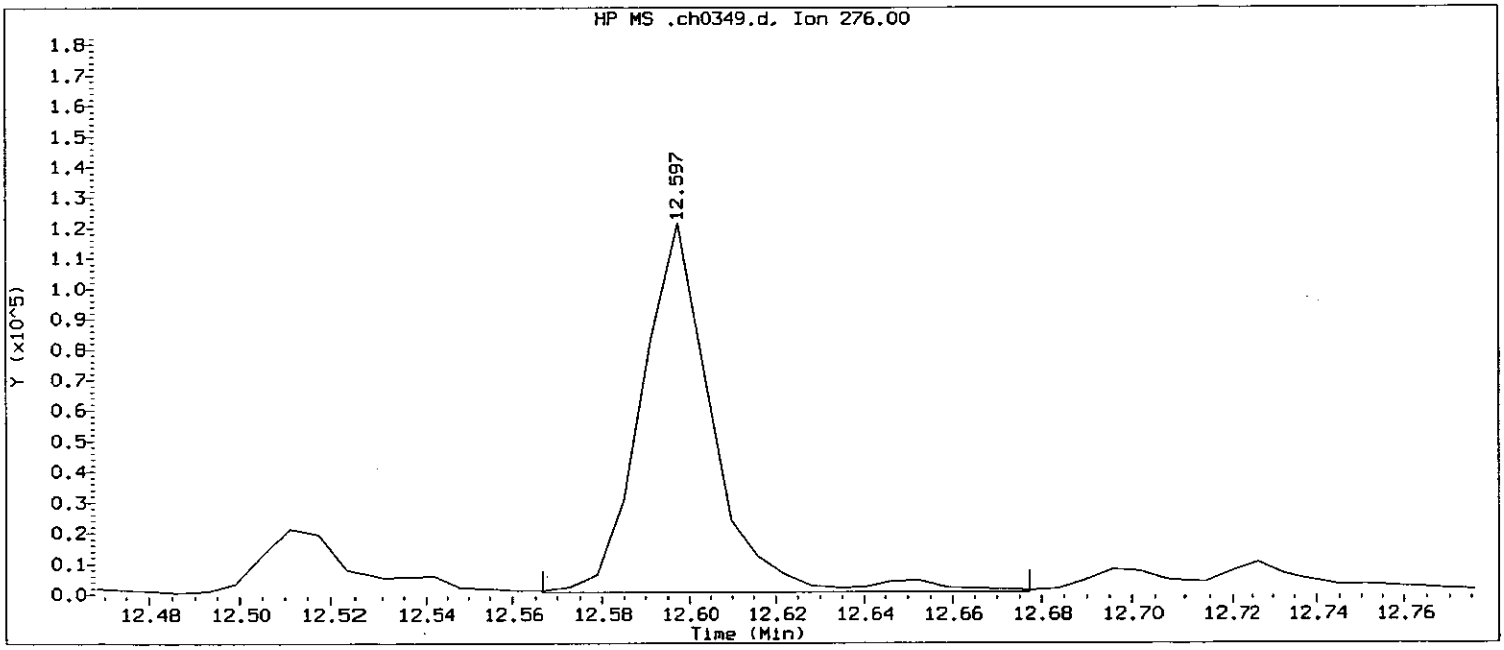
Compound Number	: 168
Compound Name	: Indeno(1,2,3-cd)pyrene
Scan Number	: 1808
Retention Time (minutes)	: 12.597
Quant Ion	: 276.0
Area (flag)	: 131895 M
Concentration (ng/ul)	: 16.1062

0252

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 23:31 Automation

Sample Name: FD801DL Lab Sample ID: 5118306DL

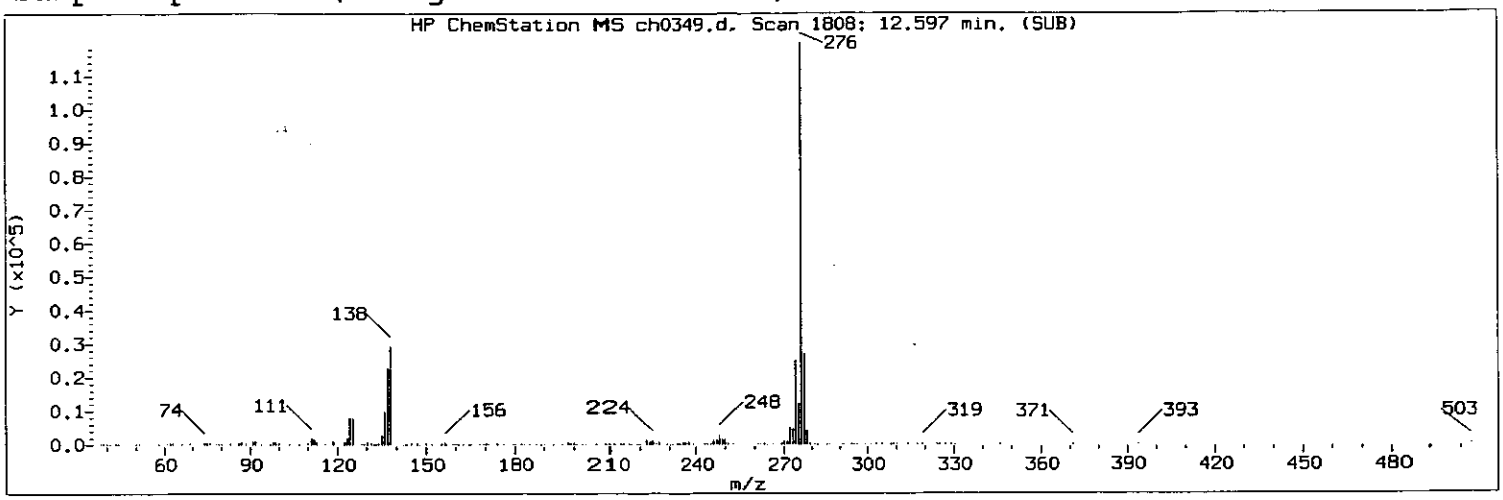
Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1808
Retention Time (minutes): 12.597
Quant Ion : 276
Area : 136566
Concentration (ng/ul) : 16.6766
Integration start scan : 1802 Integration stop scan: 1820
Y at integration start : 684 Y at integration end: 684

BG-SLL
8-13-07

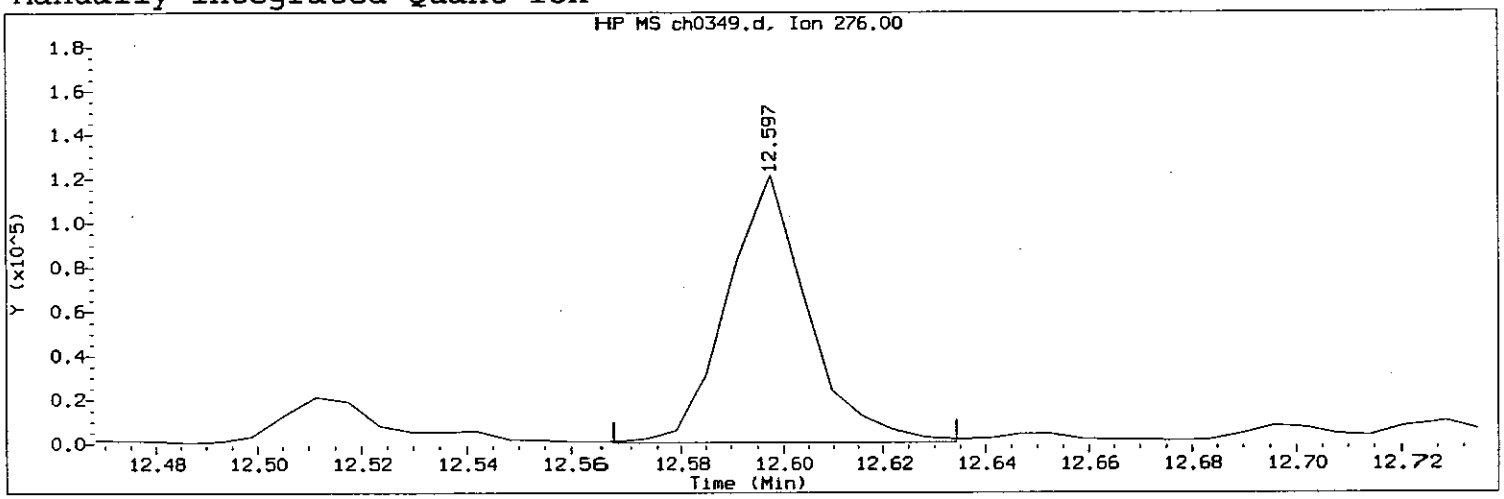
8253

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0349.d, generated on 08/13/2007 at 05:05

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0349.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 23:16 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: FD801DL Lab Sample ID: 5118306DL

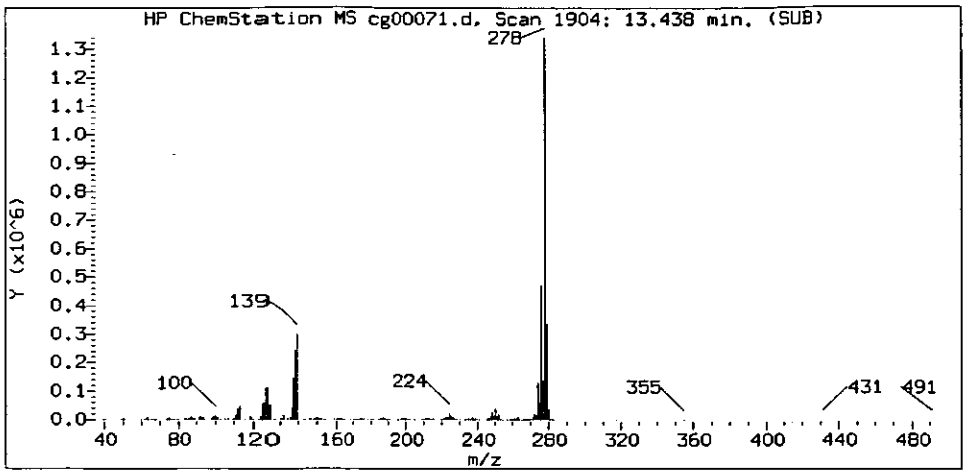
Compound Number : 168
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 1808
Retention Time (minutes): 12.597
Quant Ion : 276
Area (flag) : 131895 M
Concentration (ng/ul) : 16.1062
Integration start scan : 1802 Integration stop scan: 1813
Y at integration start : 684 Y at integration end: 684

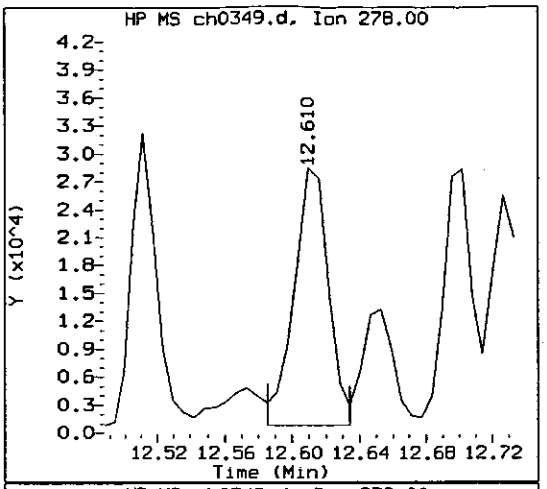
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: [signature] 8/13/07

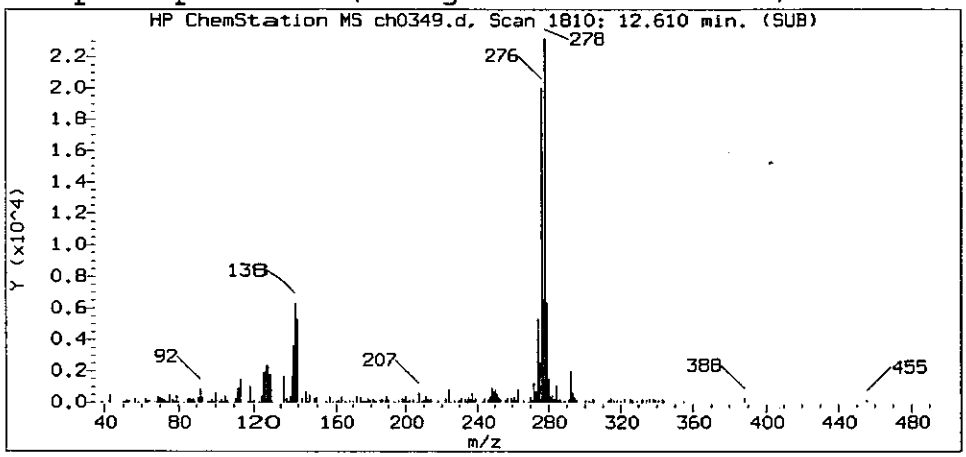
GC/MS audit/management approval: [signature] 8/14/07

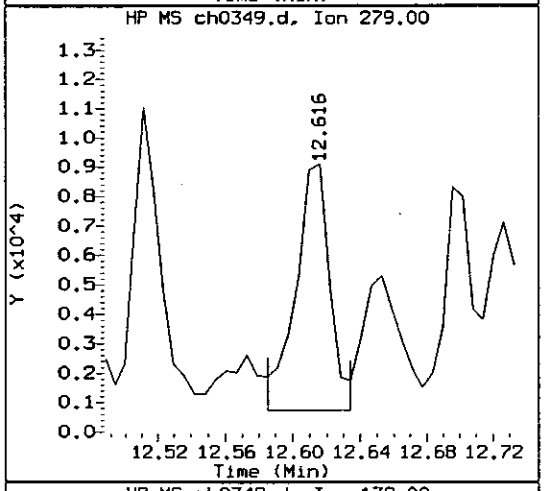
Reference Standard Spectrum for Dibenz(a,h)anthracene



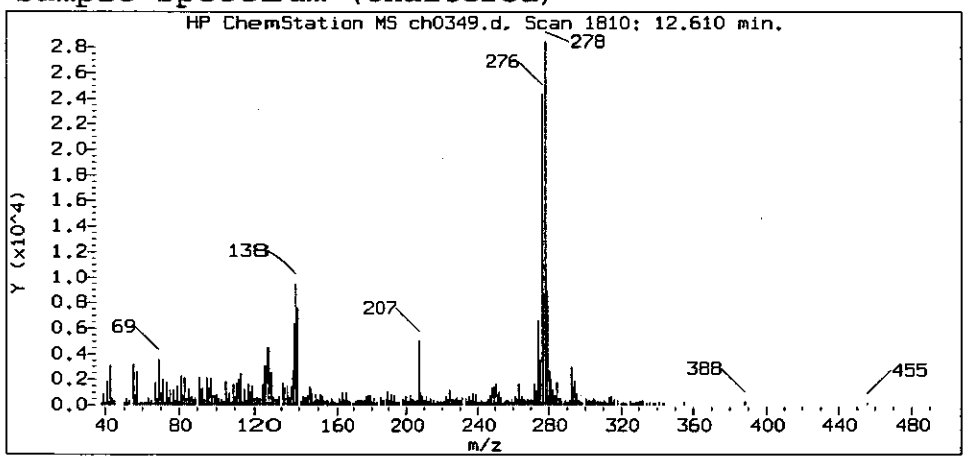


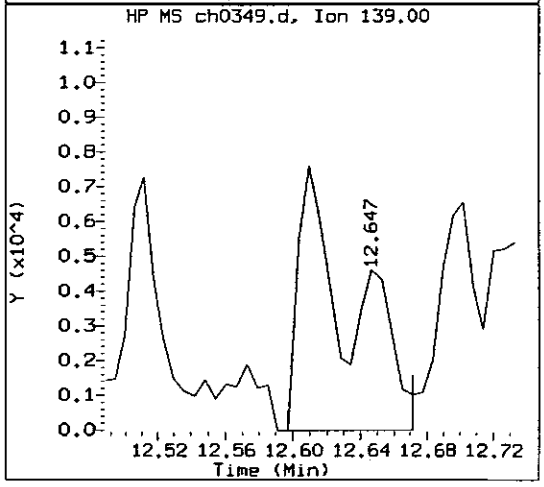
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16

Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Calibration date and time: 12-AUG-2007 17:17

Sublist used: SPAH

Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

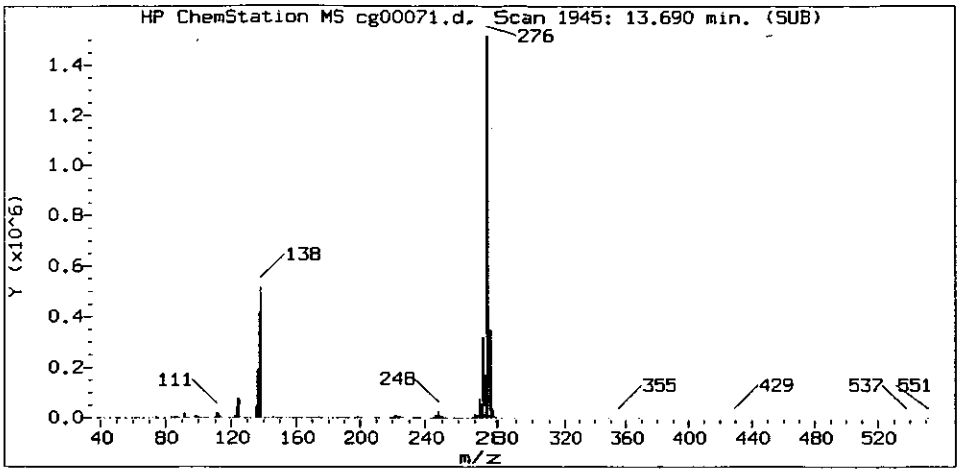
Sample Name: FD801DL

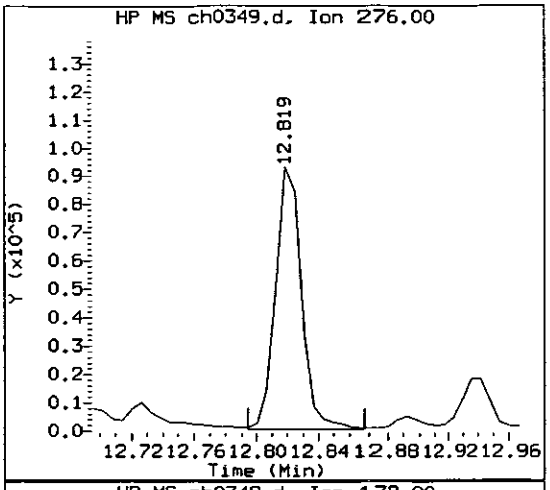
Lab Sample ID: 5118306DL

Compound Number	: 169
Compound Name	: Dibenz(a,h)anthracene
Scan Number	: 1810
Retention Time (minutes)	: 12.610
Quant Ion	: 278.0
Area (flag)	: 38419
Concentration (ng/ul)	: 5.8585

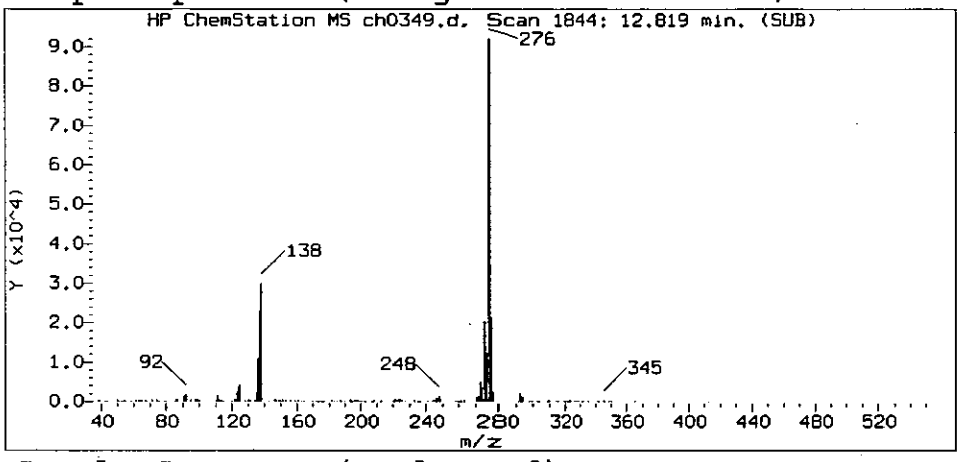
8255

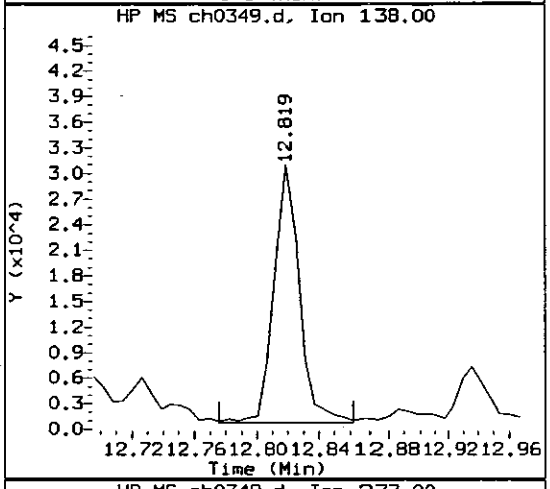
Reference Standard Spectrum for Benzo(g,h,i)perylene



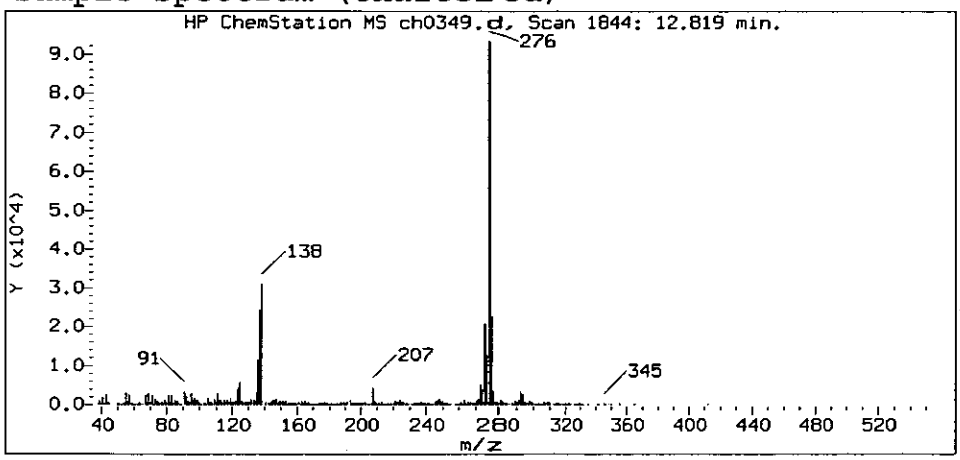


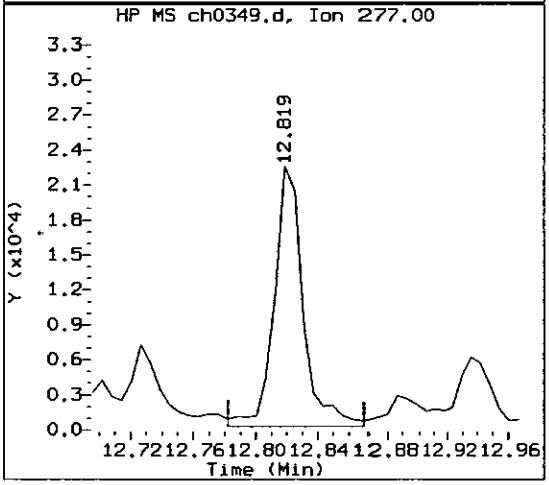
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP10623.i/07aug12.b/ch0349.d
Injection date and time: 12-AUG-2007 23:16
Instrument ID: HP10623.i
Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m
Sublist used: SPAH
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 13-Aug-2007 05:04 bkg00522

Sample Name: FD801DL
Lab Sample ID: 5118306DL

Compound Number	: 170
Compound Name	: Benzo(g,h,i)perylene
Scan Number	: 1844
Retention Time (minutes)	: 12.819
Quant Ion	: 276.0
Area (flag)	: 108592
Concentration (ng/ul)	: 15.8146

0256

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB801

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 5118307

Sample wt/vol: 1029 (g/mL) ML Lab File ID: gh0160.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: dec: Date Extracted: 08/03/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/03/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ UG/L	Q
91-20-3	Naphthalene		5	U
208-96-8	Acenaphthylene		5	U
83-32-9	Acenaphthene		5	U
86-73-7	Fluorene		5	U
85-01-8	Phenanthrene		5	U
120-12-7	Anthracene		5	U
206-44-0	Fluoranthene		5	U
129-00-0	Pyrene		5	U
56-55-3	Benzo(a)anthracene		5	U
218-01-9	Chrysene		5	U
205-99-2	Benzo(b)fluoranthene		5	U
207-08-9	Benzo(k)fluoranthene		5	U
50-32-8	Benzo(a)pyrene		5	U
193-39-5	Indeno(1,2,3-cd)pyrene		5	U
53-70-3	Dibenz(a,h)anthracene		5	U
191-24-2	Benzo(g,h,i)perylene		5	U

EB801

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118307

Data file: /chem/HP11165.i/07aug03a.b/gh0160.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 23:44 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:49 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1029.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.916(0.000)	585	152.0	138908(-17)	40.00	
52) Naphthalene-d8	6.066(0.000)	800	136.0	592734(-21)	40.00	
97) Acenaphthene-d10	7.542(0.005)	1076	164.0	389737(-20)	40.00	
134) Phenanthrene-d10	8.761(0.005)	1304	188.0	766587(-15)	40.00	
166) Chrysene-d12	10.944(0.011)	1712	240.0	772329(-5)	40.00	
174) Perylene-d12	12.398(0.011)	1984	264.0	544439(-24)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.435(0.002)	82	520310	81.855	82%		51 - 123
77) 2-Fluorobiphenyl	(3)	6.996(0.000)	172	1085637	90.277	90%		63 - 118
155) Terphenyl-d14	(5)	10.088(-0.001)	244	1527072	96.395	96%		52 - 151

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
53) Naphthalene	(2)				Below MDL, Do not report				1.00
94) Acenaphthylene	(3)				Below MDL, Do not report				1.00
98) Acenaphthene	(3)				Below MDL, Do not report				1.00
110) Fluorene	(3)				Below MDL, Do not report				1.00
136) Phenanthrene	(4)				Below MDL, Do not report				1.00
137) Anthracene	(4)				Below MDL, Do not report				1.00
146) Fluoranthene	(4)				Below MDL, Do not report				1.00
153) Pyrene	(5)				Below MDL, Do not report				1.00
165) Benzo(a)anthracene	(5)				Below MDL, Do not report				1.00
167) Chrysene	(5)				Below MDL, Do not report				1.00
171) Benzo(b)fluoranthene	(6)				Below MDL, Do not report				1.00
172) Benzo(k)fluoranthene	(6)				Below MDL, Do not report				1.00
173) Benzo(a)pyrene	(6)				Below MDL, Do not report				1.00
176) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			1.00
177) Dibenz(a,h)anthracene	(6)				ND	ND			1.00
178) Benzo(g,h,i)perylene	(6)				ND	ND			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

0258

EB801

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118307

Data file: /chem/HP11165.i/07aug03a.b/gh0160.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 23:44 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:49 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1029.0 ml Final Extract Volume (Vt): 1000 ul

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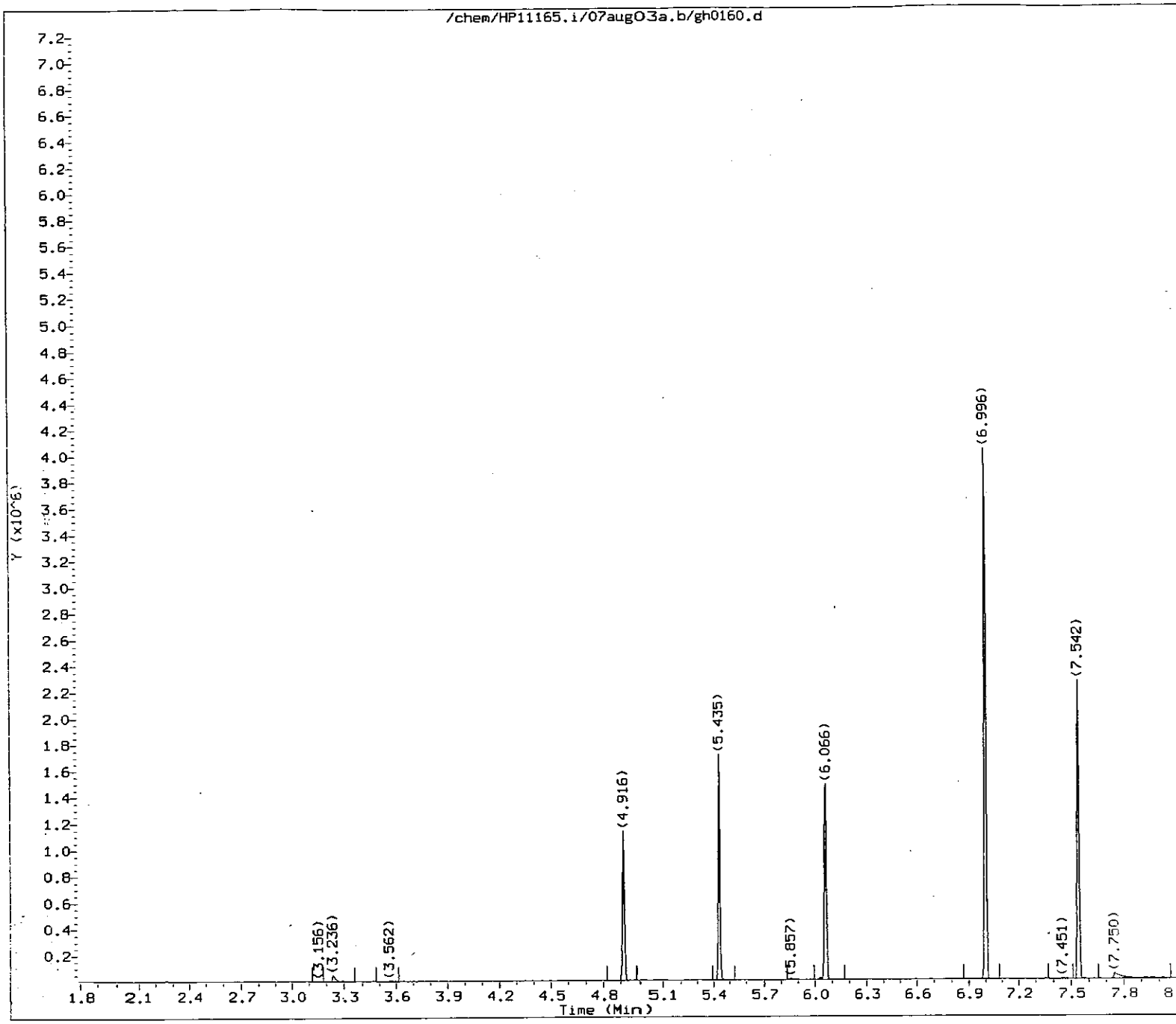
Total number of targets = 16

Comments: _____

Analyst: _____ Date: 8/5/07
Auditor: _____ Date: 8/6/07

0259



Quant Report

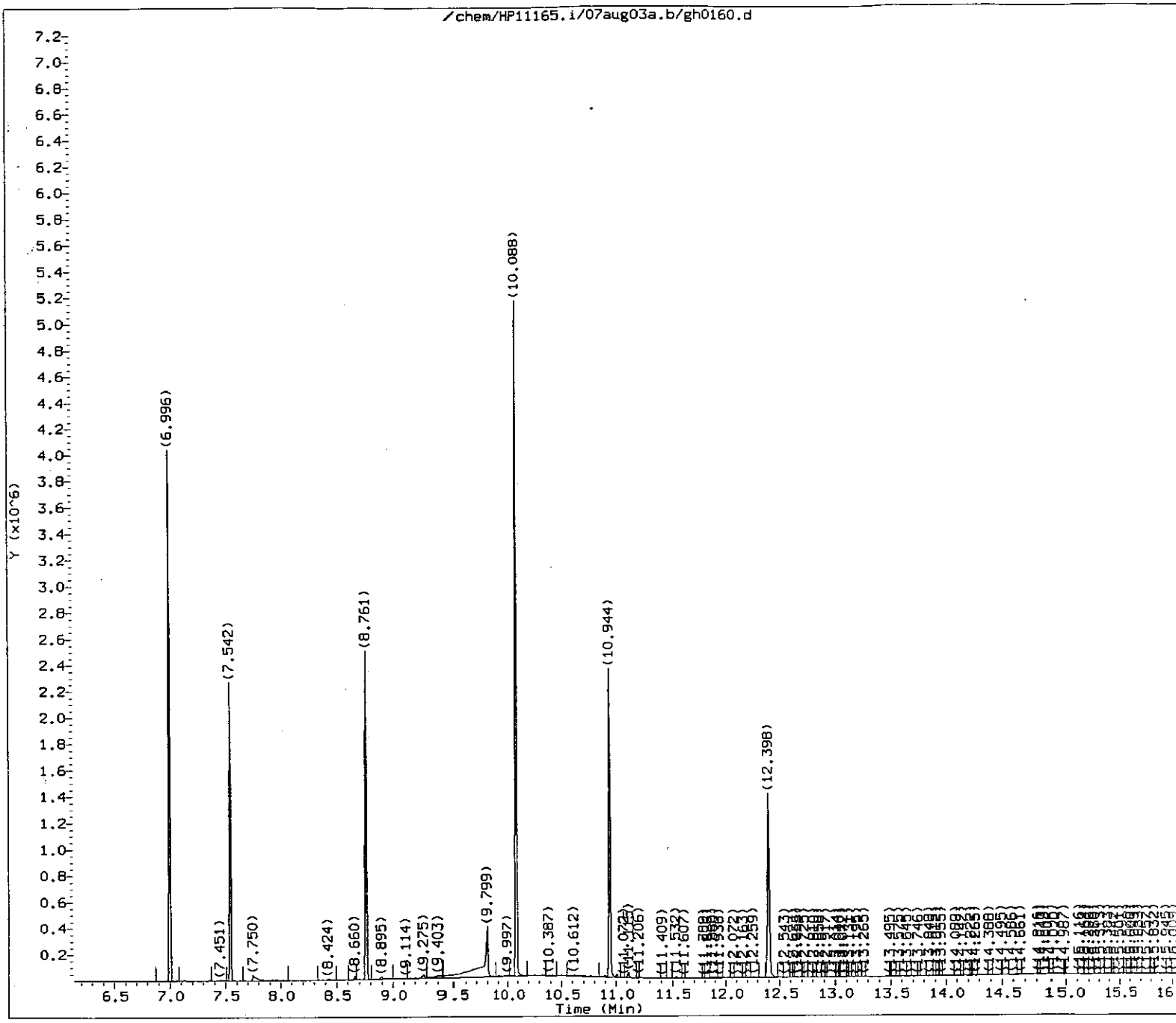
Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0160.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:44 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:49 mac00013

Sample Name: EB801 Lab Sample ID: 5118307

0268
mac 8/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0160.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:44 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:49 mac00013

Sample Name: EB801 Lab Sample ID: 5118307

mac 8261 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0160.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:44 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:49 mac00013

Sample Name: EB801 Lab Sample ID: 5118307

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.916	152	138908	40.000
52) Naphthalene-d8	(2)	6.066	136	592734	40.000
97) Acenaphthene-d10	(3)	7.542	164	389737	40.000
134) Phenanthrene-d10	(4)	8.761	188	766587	40.000
166) Chrysene-d12	(5)	10.944	240	772329	40.000
174) Perylene-d12	(6)	12.398	264	544439	40.000
38) Nitrobenzene-d5	(2)	5.435	82	520310	81.855
77) 2-Fluorobiphenyl	(3)	6.996	172	1085637	90.277
155) Terphenyl-d14	(5)	10.088	244	1527072	96.395

M = Compound was manually integrated. A = User selected an alternate hi

Standards Data

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/05/07 08/05/07

Calibration Times: 06:33 08:15

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = ch0106.d RRF15 = ch0105.d RRF30 = ch0104.d
RRF50 = ch0101a.d RRF80 = ch0102.d RRF120 = ch0103.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,4-Dioxane	0.555	0.609	0.571	0.613	0.603	0.585		0.589	4	AVG	
	N-Nitrosodimethylamine	0.858	0.854	0.880	0.981	1.043	1.034		0.942	9	AVG	
	Pyridine	1.780	1.553	1.812	1.877	1.696	1.725		1.741	6	AVG	
	2-Picoline	1.507	1.690	1.808	1.821	1.819	1.811		1.743	7	AVG	
*	Phenol	2.058	2.331	2.367	2.387	2.401	2.336		2.313	6	AVG	*
	Aniline	2.657	2.773	2.761	2.861	2.806	2.694		2.759	3	AVG	
	bis(2-Chloroethyl)ether	1.581	1.689	1.688	1.706	1.681	1.667		1.669	3	AVG	
	2-Chlorophenol	1.365	1.502	1.530	1.525	1.576	1.563		1.510	5	AVG	
	1,3-Dichlorobenzene	1.503	1.575	1.595	1.611	1.609	1.569		1.577	3	AVG	
*	1,4-Dichlorobenzene	1.585	1.685	1.677	1.644	1.654	1.622		1.644	2	AVG	*
	Benzyl alcohol	0.999	1.117	1.124	1.035	1.152	1.137		1.094	6	AVG	
	1,2-Dichlorobenzene	1.466	1.606	1.573	1.580	1.566	1.543		1.556	3	AVG	
	2-Methylphenol	1.420	1.552	1.623	1.628	1.647	1.600		1.578	5	AVG	
	2,2'-oxybis(1-Chloropropane)	2.692	2.840	2.941	2.869	2.896	2.823		2.843	3	AVG	
	bis(2-Chloroisopropyl)ether	2.692	2.840	2.941	2.869	2.896	2.823		2.843	3	AVG	
	Acetophenone	2.238	2.322	2.410	2.435	2.403	2.363		2.362	3	AVG	
#	N-Nitroso-di-n-propylamine	1.266	1.387	1.414	1.408	1.383	1.349		1.368	4	AVG	#
	4-Methylphenol	1.592	1.804	1.806	1.801	1.830	1.781		1.769	5	AVG	
	o-Toluidine	2.565	2.771	2.803	2.765	2.779	2.668		2.725	3	AVG	
	Hexachloroethane	0.558	0.585	0.617	0.609	0.618	0.613		0.600	4	AVG	
	Nitrobenzene	0.391	0.415	0.441	0.435	0.452	0.440		0.429	5	AVG	
	Isophorone	0.778	0.824	0.846	0.854	0.855	0.825		0.831	3	AVG	
*	2-Nitrophenol	0.108	0.131	0.153	0.143	0.161	0.165		0.144	15	AVG	*+
	2,4-Dimethylphenol	0.354	0.396	0.402	0.415	0.403	0.405		0.396	5	AVG	
	bis(2-Chloroethoxy)methane	0.450	0.507	0.486	0.493	0.476	0.468		0.480	4	AVG	
	Benzoic acid	0.120	0.182	0.226	0.213	0.264	0.279		0.214	27	1STDEG	
*	2,4-Dichlorophenol	0.279	0.305	0.316	0.318	0.326	0.313		0.310	5	AVG	*
	1,2,4-Trichlorobenzene	0.303	0.312	0.316	0.315	0.315	0.302		0.311	2	AVG	
	Naphthalene	1.064	1.091	1.115	1.108	1.103	1.072		1.092	2	AVG	
	4-Chloroaniline	0.429	0.464	0.470	0.466	0.471	0.444		0.457	4	AVG	
	2,6-Dichlorophenol	0.276	0.299	0.306	0.306	0.304	0.297		0.298	4	AVG	
*	Hexachlorobutadiene	0.164	0.180	0.177	0.177	0.175	0.172		0.174	3	AVG	*
	Quinoline	0.707	0.742	0.759	0.750	0.759	0.733		0.742	3	AVG	
	Caprolactam	0.105	0.126	0.129	0.135	0.140	0.136		0.128	10	AVG	
*	4-Chloro-3-methylphenol	0.317	0.348	0.354	0.362	0.373	0.363		0.353	6	AVG	*
	2-Methylnaphthalene	0.701	0.741	0.752	0.739	0.752	0.713		0.733	3	AVG	
	1-Methylnaphthalene	0.685	0.741	0.745	0.737	0.742	0.705		0.726	3	AVG	
#	Hexachlorocyclopentadiene	0.207	0.248	0.273	0.287	0.286	0.298		0.267	13	AVG	#
	1,2,4,5-Tetrachlorobenzene	0.484	0.476	0.480	0.489	0.472	0.468		0.478	2	AVG	
*	2,4,6-Trichlorophenol	0.281	0.324	0.334	0.333	0.346	0.345		0.327	7	AVG	*
	2,4,5-Trichlorophenol	0.342	0.369	0.403	0.401	0.403	0.401		0.387	7	AVG	
	Biphenyl	1.412	1.397	1.438	1.427	1.420	1.363		1.410	2	AVG	
	Diphenyl	1.412	1.397	1.438	1.427	1.420	1.363		1.410	2	AVG	
	1,1'-Biphenyl	1.412	1.397	1.438	1.427	1.420	1.363		1.410	2	AVG	
	2-Chloronaphthalene	1.390	1.477	1.436	1.375	1.296	1.496		1.412	5	AVG	
	1-Chloronaphthalene	1.067	1.073	1.089	1.148	1.231	1.043		1.109	6	AVG	
	Diphenyl ether	0.780	0.801	0.806	0.829	0.797	0.781		0.799	2	AVG	
	2-Nitroaniline	0.244	0.289	0.336	0.330	0.355	0.363		0.319	14	AVG	
	Dimethylphthalate	1.246	1.351	1.362	1.361	1.349	1.285		1.326	4	AVG	
	2,6-Dinitrotoluene	0.206	0.268	0.290	0.290	0.297	0.298		0.275	13	AVG	
	Acenaphthylene	1.678	1.795	1.852	1.857	1.824	1.777		1.797	4	AVG	
	3-Nitroaniline	0.239	0.298	0.311	0.317	0.336	0.328		0.305	11	AVG	

+ %RSD is less than or equal to 15%; however, value rounds to 15.

0264

mc (13) 8/5/07

FORM VI SV-1

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/05/07 08/05/07

Calibration Times: 06:33 08:15

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = ch0106.d RRF15 = ch0105.d RRF30 = ch0104.d
RRF50 = ch0101a.d RRF80 = ch0102.d RRF120 = ch0103.d

COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Acenaphthene	* 1.117	1.117	1.141	1.157	1.139	1.094		1.127	2	AVG	*
2,4-Dinitrophenol	# 0.049	0.069	0.078	0.087	0.103	0.118		0.084	29	1STDEG	#
Pentachlorobenzene	0.454	0.460	0.470	0.470	0.462	0.445		0.460	2	AVG	
4-Nitrophenol	# 0.151	0.191	0.210	0.228	0.227	0.235		0.207	15	1STDEG	#
Dibenzofuran	1.628	1.675	1.705	1.665	1.624	1.580		1.646	3	AVG	
2,4-Dinitrotoluene	0.251	0.332	0.371	0.371	0.389	0.384		0.350	15	AVG	+
1-Naphthylamine	1.157	1.225	1.216	1.234	1.168	1.124		1.187	4	AVG	
2,3,4,6-Tetrachlorophenol	0.227	0.249	0.277	0.291	0.293	0.289		0.271	10	AVG	
2-Naphthylamine	1.146	1.242	1.238	1.268	1.217	1.119		1.205	5	AVG	
Diethylphthalate	1.223	1.327	1.360	1.391	1.368	1.328		1.333	4	AVG	
Fluorene	1.311	1.365	1.383	1.377	1.358	1.284		1.346	3	AVG	
4-Chlorophenyl-phenylether	0.612	0.637	0.648	0.622	0.623	0.594		0.623	3	AVG	
4-Nitroaniline	0.284	0.320	0.345	0.352	0.361	0.350		0.336	9	AVG	
4,6-Dinitro-2-methylphenol	0.044	0.063	0.080	0.078	0.098	0.106		0.078	29	1STDEG	
N-Nitrosodiphenylamine (1)	* 0.512	0.545	0.571	0.564	0.554	0.543		0.548	4	AVG	*
1,2-Diphenylhydrazine	0.771	0.851	0.855	0.864	0.869	0.838		0.842	4	AVG	
Phorate	0.398	0.470	0.496	0.499	0.520	0.487		0.478	9	AVG	
4-Bromophenyl-phenylether	0.178	0.201	0.209	0.208	0.206	0.194		0.199	6	AVG	
Hexachlorobenzene	0.217	0.223	0.222	0.219	0.219	0.215		0.219	1	AVG	
Pentachlorophenol	* 0.099	0.119	0.135	0.137	0.148	0.145		0.130	14	AVG	*
Phenanthrene	1.053	1.104	1.115	1.109	1.105	1.054		1.090	3	AVG	
Dinoseb	0.053	0.076	0.101	0.112	0.138	0.149		0.105	35	1STDEG	
Anthracene	1.051	1.120	1.156	1.159	1.153	1.109		1.124	4	AVG	
Carbazole	1.006	1.067	1.093	1.101	1.082	1.051		1.067	3	AVG	
Methyl parathion	0.116	0.168	0.199	0.203	0.212	0.201		0.183	20	AVG	
Ronnel	0.255	0.280	0.286	0.285	0.281	0.260		0.275	5	AVG	
Di-n-butylphthalate	1.031	1.202	1.270	1.275	1.273	1.261		1.219	8	AVG	
Parathion	0.085	0.113	0.136	0.138	0.145	0.148		0.128	19	AVG	
Fluoranthene	* 1.156	1.206	1.253	1.255	1.235	1.223		1.221	3	AVG	*
Benzidine	0.461	0.648	0.668	0.716	0.721	0.665		0.646	15	AVG	+
Pyrene	1.156	1.226	1.273	1.288	1.300	1.257		1.250	4	AVG	
Butylbenzylphthalate	0.430	0.529	0.569	0.582	0.612	0.586		0.552	12	AVG	
3,3'-Dichlorobenzidine	0.357	0.395	0.439	0.438	0.456	0.451		0.423	9	AVG	
Benzo(a)anthracene	1.077	1.128	1.149	1.142	1.159	1.122		1.130	3	AVG	
Hexabromobenzene	0.025	0.030	0.032	0.035	0.036	0.038		0.032	14	AVG	
4,4'-Methylenebis(2-Chloroanil	0.188	0.196	0.217	0.219	0.228	0.222		0.212	7	AVG	
Chrysene	1.075	1.085	1.113	1.148	1.126	1.141		1.115	3	AVG	
bis(2-Ethylhexyl)phthalate	0.593	0.726	0.780	0.793	0.843	0.841		0.763	12	AVG	
6-Methylchrysene	0.706	0.752	0.807	0.826	0.851	0.847		0.798	7	AVG	
Di-n-octylphthalate	* 1.014	1.357	1.519	1.563	1.631	1.568		1.442	16	1STDEG	*
7,12-Dimethylbenz[a]anthracene	0.549	0.657	0.688	0.713	0.690	0.664		0.660	9	AVG	
Benzo(b)fluoranthene	1.165	1.309	1.492	1.357	1.456	1.281		1.343	9	AVG	
Benzo(k)fluoranthene	1.448	1.565	1.456	1.607	1.454	1.529		1.510	4	AVG	
Benzo(a)pyrene	* 1.206	1.316	1.341	1.369	1.361	1.328		1.320	4	AVG	*
3-Methylcholanthrene	0.617	0.676	0.749	0.764	0.768	0.752		0.721	9	AVG	
Dibenz(a,h)acridine	0.786	0.929	0.993	1.052	1.076	1.100		0.989	12	AVG	
Dibenz(a,j)acridine	0.985	1.072	1.131	1.170	1.166	1.113		1.106	6	AVG	
Indeno(1,2,3-cd)pyrene	1.263	1.462	1.520	1.550	1.578	1.534		1.484	8	AVG	
Dibenz(a,h)anthracene	1.060	1.168	1.195	1.229	1.257	1.222		1.189	6	AVG	
Benzo(g,h,i)perylene	1.132	1.204	1.273	1.270	1.309	1.280		1.245	5	AVG	
2-Fluorophenol	1.361	1.378	1.453	1.449	1.508	1.464		1.436	4	AVG	
Phenol-d5	1.755	1.984	1.955	1.994	2.031	1.988		1.951	5	AVG	

+ %RSD is less than or equal to 15%; however, value rounds to 15.

(1) Cannot be separated from Diphenylamine

8265

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/05/07 08/05/07

Calibration Times: 06:33 08:15

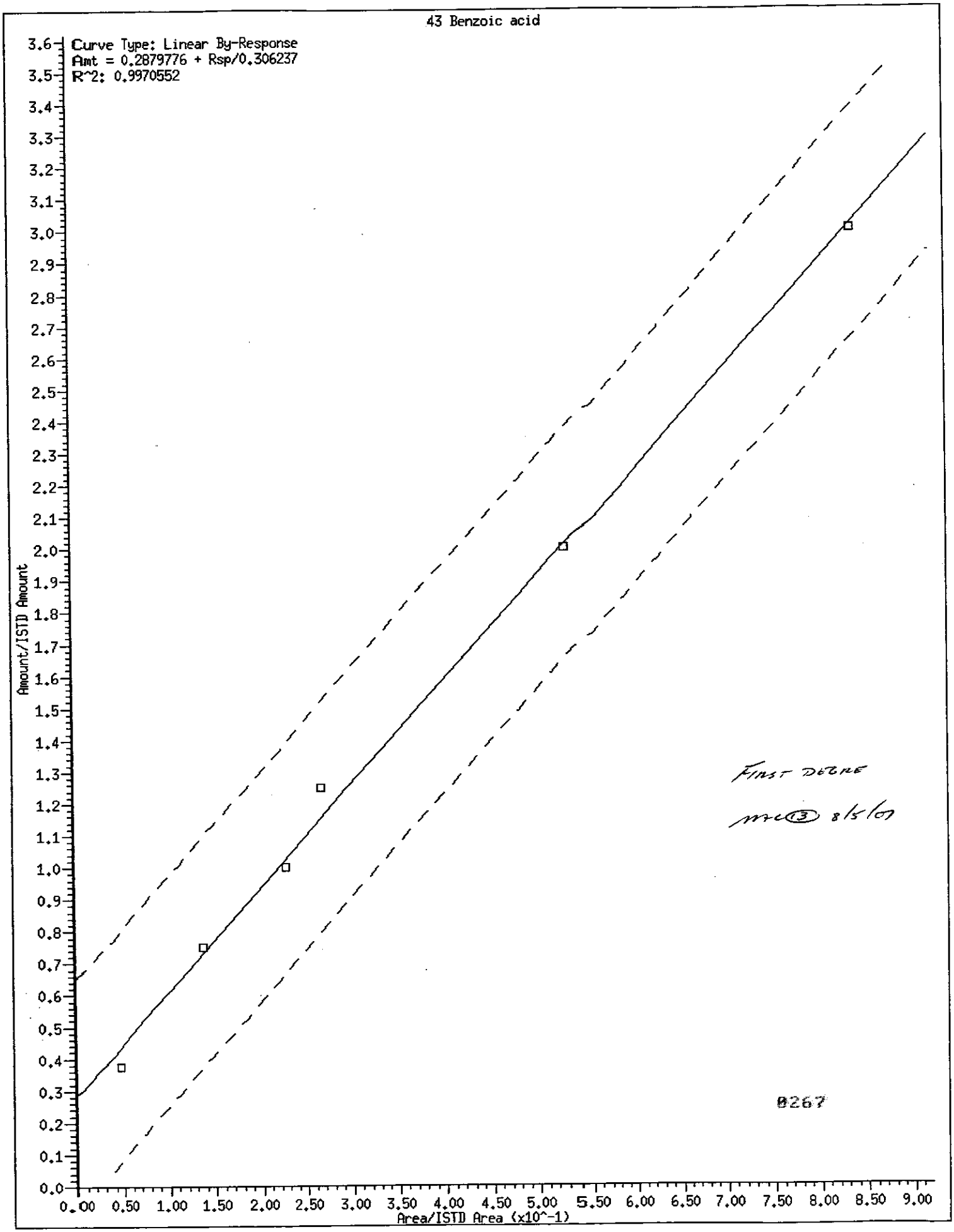
Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

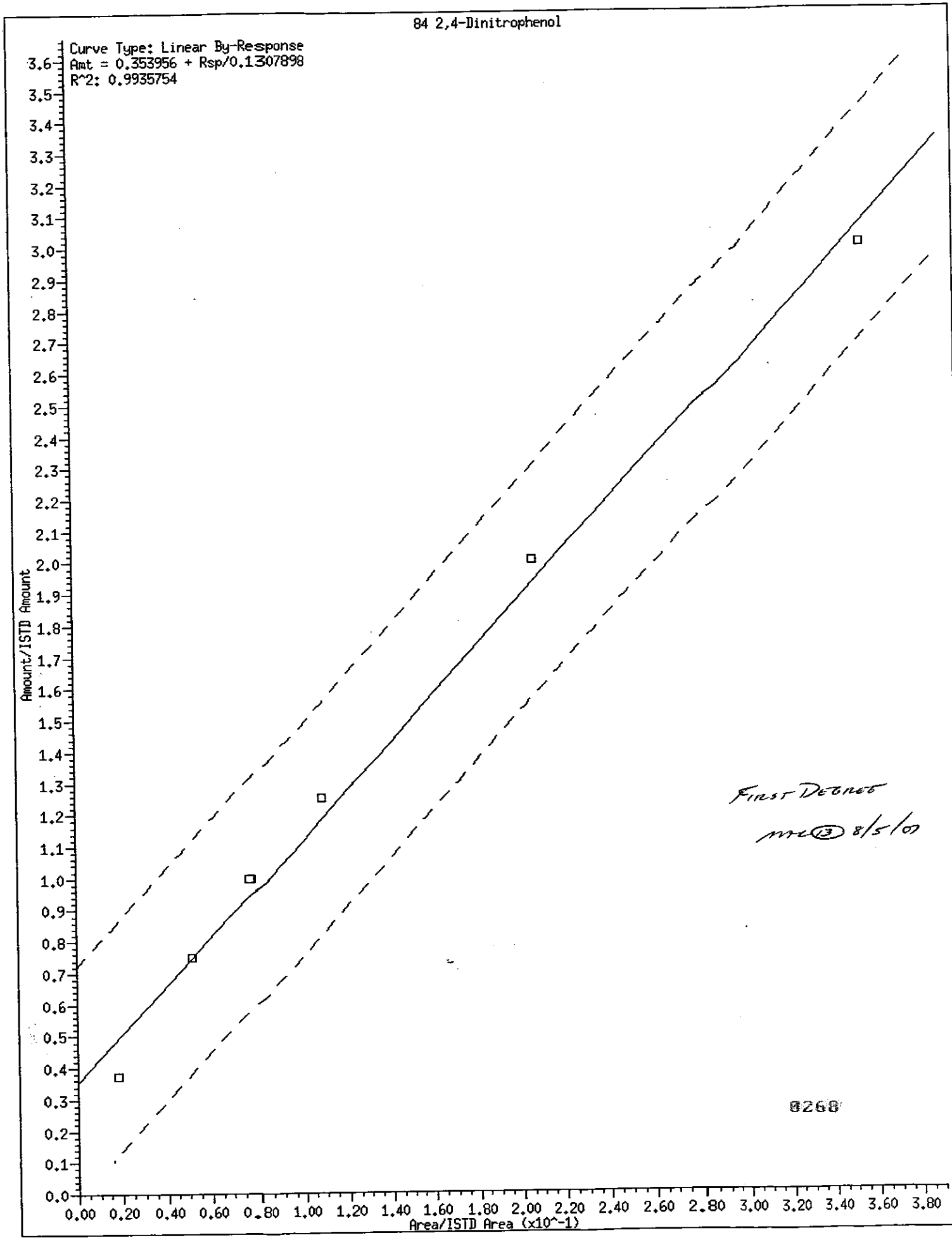
LAB FILE ID: RRF5 = ch0106.d RRF15 = ch0105.d RRF30 = ch0104.d
RRF50 = ch0101a.d RRF80 = ch0102.d RRF120 = ch0103.d

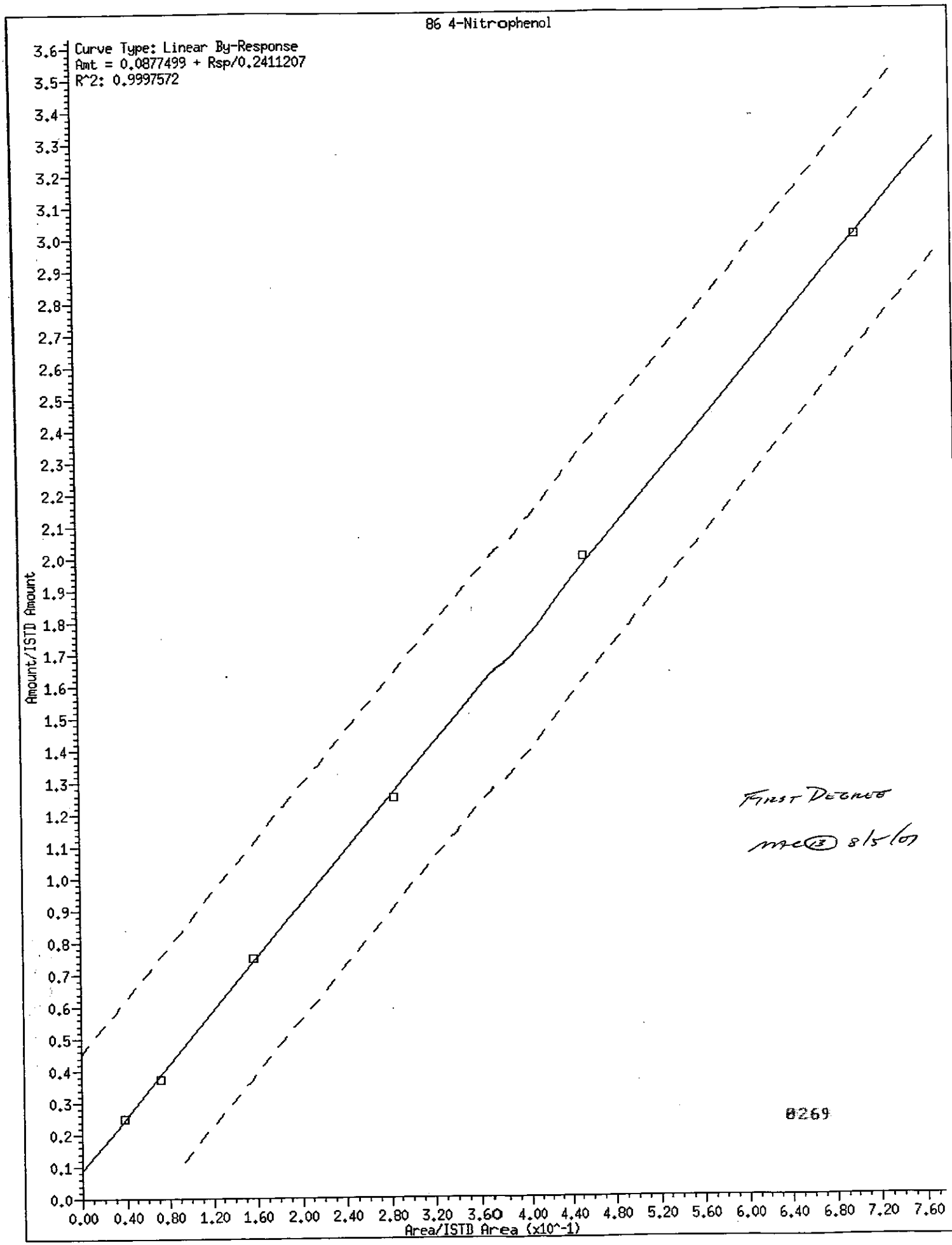
COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
Phenol-d6	1.755	1.984	1.955	1.994	2.031	1.988		1.951	5	AVG
Nitrobenzene-d5	0.345	0.386	0.393	0.395	0.412	0.408		0.390	6	AVG
2-Fluorobiphenyl	1.228	1.259	1.289	1.285	1.272	1.220		1.259	2	AVG
2,4,6-Tribromophenol	0.154	0.167	0.177	0.185	0.192	0.186		0.177	8	AVG
Terphenyl-d14	0.735	0.823	0.846	0.837	0.865	0.835		0.823	6	AVG
							Average %RSD		7	

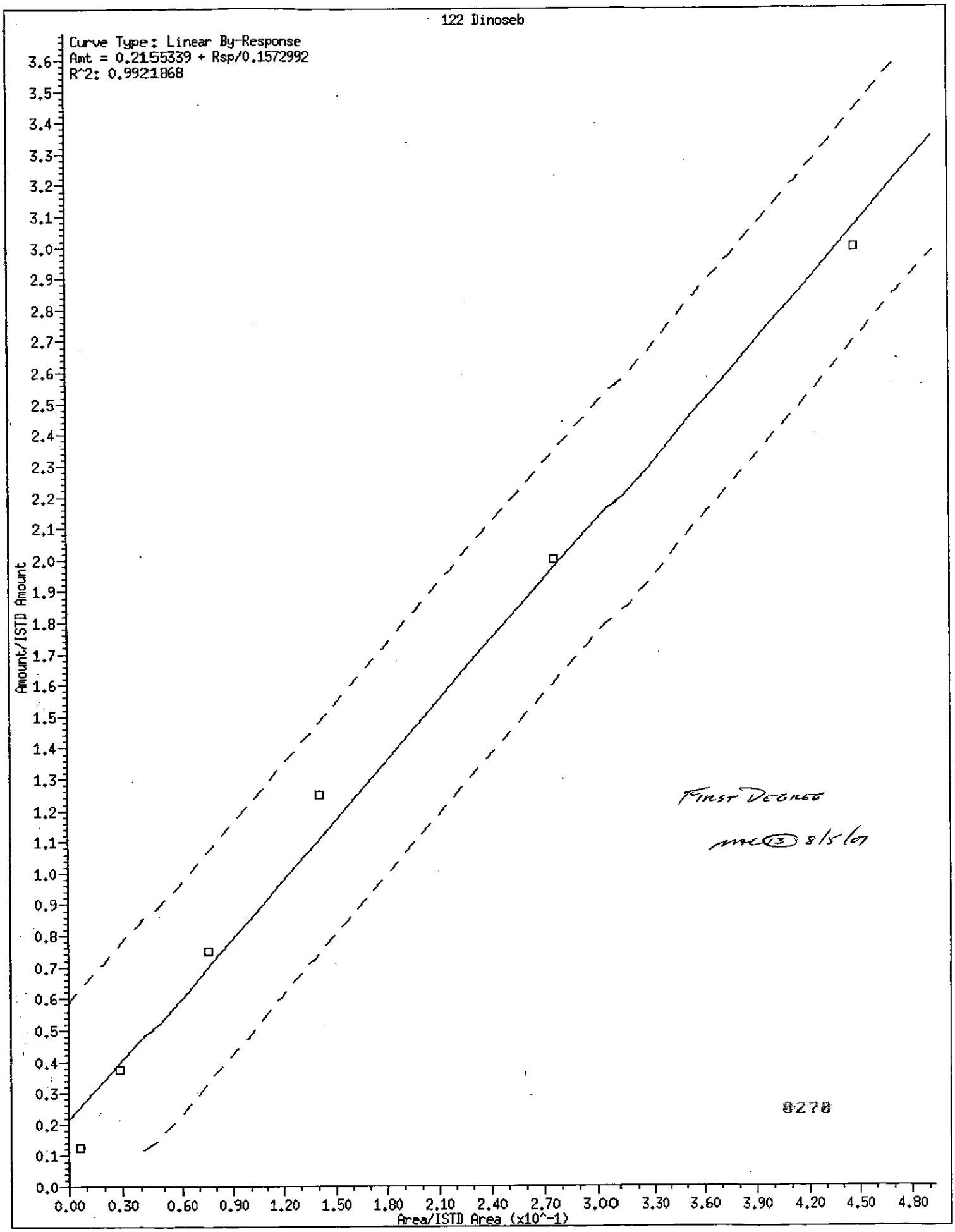
0266

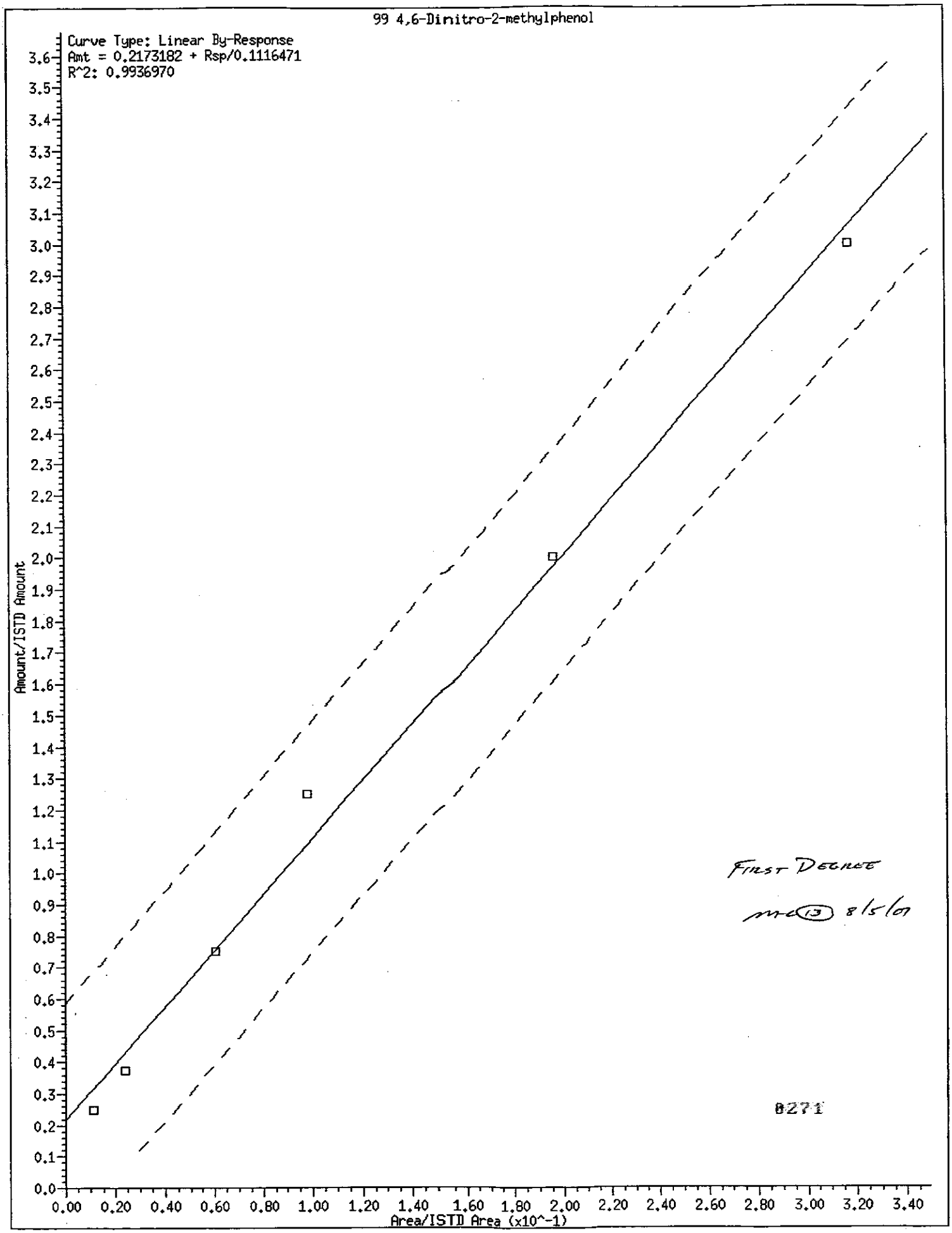
4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5 ,15, 30 standards.

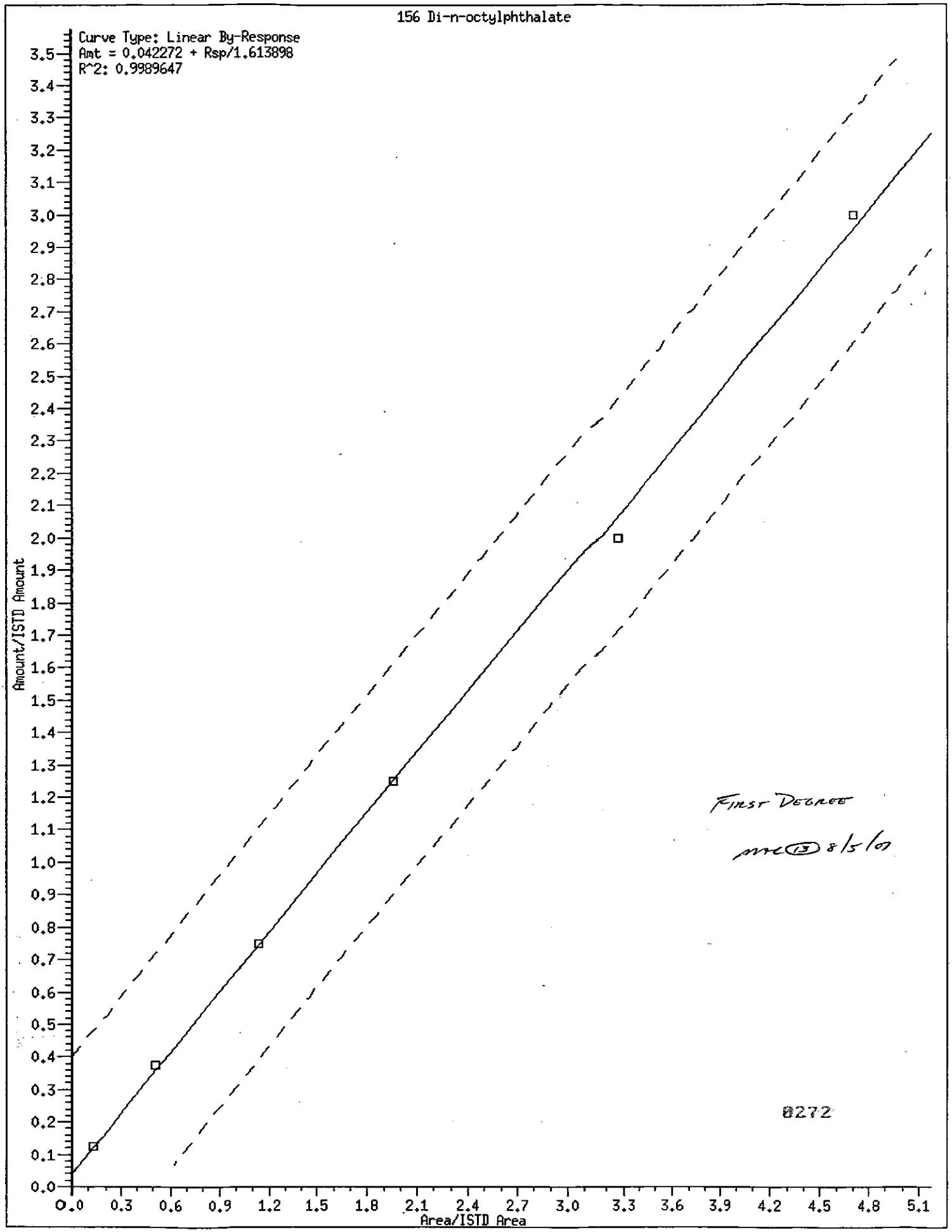

43 Benzoic acid
Curve Type: Linear By-Response
Amt = 0.2879776 + Rsp/0.306237
R^2: 0.9970552
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
FIRST DEGREE
mc(3) 8/5/07
0267

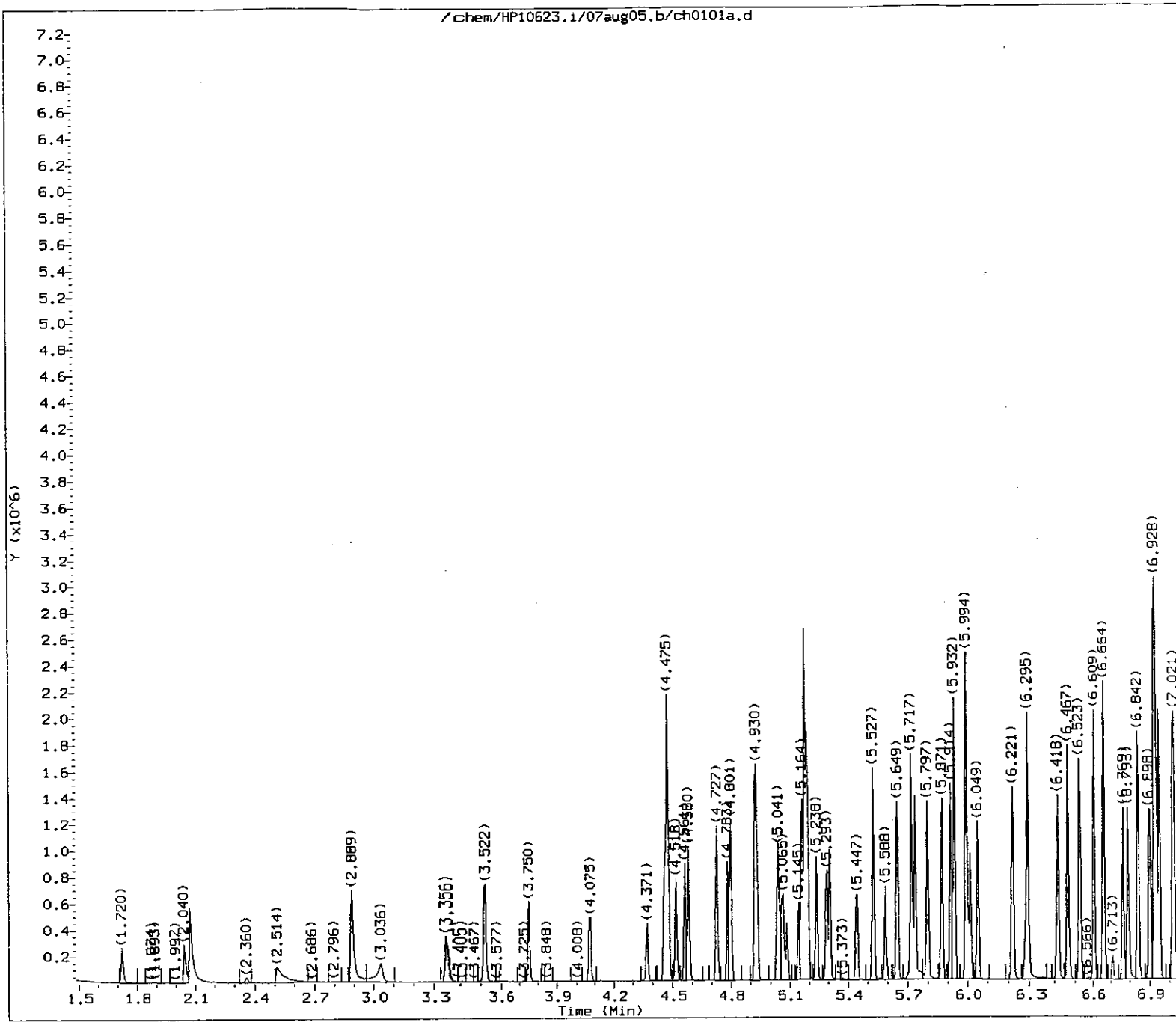

84 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0.353956 + Rsp/0.1307898
R^2: 0.9935754
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
FIRST DEGREE
MRL (3) 8/5/07
8260


86 4-Nitrophenol
Curve Type: Linear By-Response
Amt = 0.0877499 + Rsp/0.2411207
R^2: 0.9997572
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60
First Degree
mc 13 8/5/07
0269


122 Dinoseb
Curve Type: Linear By-Response
Amt = 0.2155339 + Rsp/0.1572992
R^2: 0.9921868
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80
First Degree
mc 13 8/15/07
0270


99 4,6-Dinitro-2-methylphenol
Curve Type: Linear By-Response
Amt = 0.2173182 + Rsp/0.1116471
R^2: 0.9936970
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
FIRST DEGREE
mc(13) 8/5/07
8271


156 Di-n-octylphthalate
Curve Type: Linear By-Response
Amt = 0.042272 + Rsp/1.613898
R^2: 0.9989647
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5
First Degree
mrc 8/5/07
0272



Quant Report

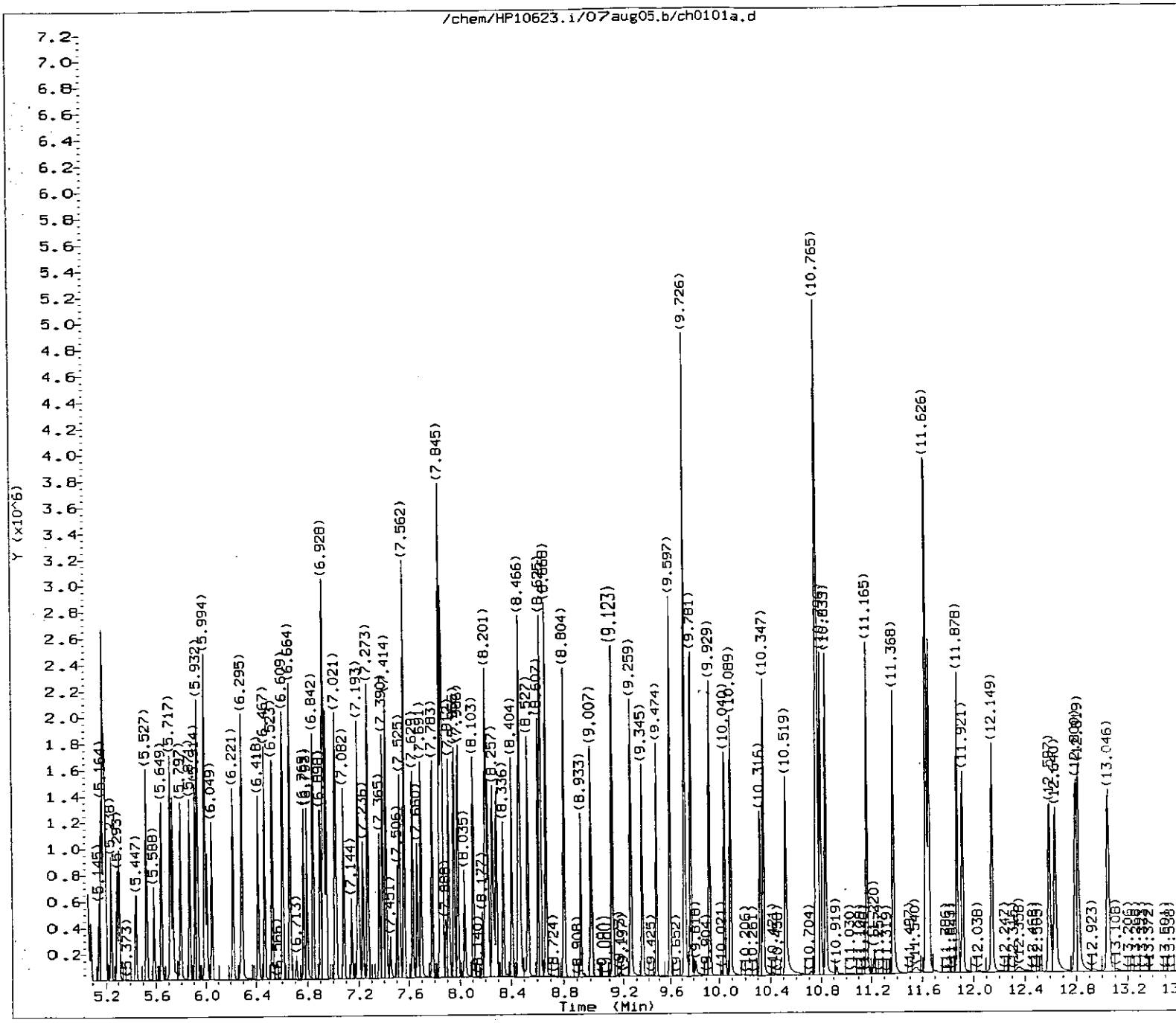
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

mc (3) 8273 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

mc (3) 8270 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.720	88	76312	50.0000
2) N-Nitrosodimethylamine	(1)	2.040	74	122194	50.0000
3) Pyridine	(1)	2.071	79	233738	50.0000
5) 2-Picoline	(1)	2.889	93	226666	50.0000
15) Phenol	(1)	4.475	94	297134	50.0000
16) Aniline	(1)	4.475	93	356186	50.0000
18) bis(2-Chloroethyl)ether	(1)	4.561	93	212356	50.0000
19) 2-Chlorophenol	(1)	4.580	128	189905	50.0000
20) 1,3-Dichlorobenzene	(1)	4.727	146	200603	50.0000
21) 1,4-Dichlorobenzene-d4	(1)	4.783	152	99600	40.0000
22) 1,4-Dichlorobenzene	(1)	4.801	146	204664	50.0000
23) Benzyl alcohol	(1)	4.924	108	128919	50.0000
24) 1,2-Dichlorobenzene	(1)	4.930	146	196687	50.0000
25) 2-Methylphenol	(1)	5.041	108	202691	50.0000
26) 2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	357185	50.0000
27) bis(2-Chloroisopropyl)ether	(1)	5.065	45	357185	50.0000
29) Acetophenone	(1)	5.164	105	303102	50.0000
30) N-Nitroso-di-n-propylamine	(1)	5.176	70	175353	50.0000
31) 4-Methylphenol	(1)	5.176	108	224265	50.0000
33) o-Toluidine	(1)	5.194	106	344275	50.0000
34) Hexachloroethane	(1)	5.238	117	75879	50.0000
36) Nitrobenzene	(2)	5.305	77	238498	50.0000
38) Isophorone	(2)	5.527	82	468746	50.0000
39) 2-Nitrophenol	(2)	5.588	139	78671	50.0000
40) 2,4-Dimethylphenol	(2)	5.649	107	227704	50.0000
42) bis(2-Chloroethoxy)methane	(2)	5.736	93	270489	50.0000
43) Benzoic acid	(2)	5.736	105	116824	50.0000
44) 2,4-Dichlorophenol	(2)	5.797	162	174469	50.0000
45) 1,2,4-Trichlorobenzene	(2)	5.871	180	172969	50.0000
46) Naphthalene-d8	(2)	5.914	136	439109	40.0000
47) Naphthalene	(2)	5.932	128	608043	50.0000
48) 4-Chloroaniline	(2)	5.994	127	255914	50.0000
49) 2,6-Dichlorophenol	(2)	5.994	162	167760	50.0000
51) Hexachlorobutadiene	(2)	6.049	225	97346	50.0000
52) Quinoline	(2)	6.221	129	411514	50.0000
53) Caprolactam	(2)	6.295	113	74040	50.0000
55) 4-Chloro-3-methylphenol	(2)	6.418	107	198825	50.0000
58) 2-Methylnaphthalene	(2)	6.529	142	405563	50.0000
60) 1-Methylnaphthalene	(2)	6.609	142	404491	50.0000
61) Hexachlorocyclopentadiene	(3)	6.664	237	102966	50.0000
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	175169	50.0000
64) 2,4,6-Trichlorophenol	(3)	6.769	196	119373	50.0000
65) 2,4,5-Trichlorophenol	(3)	6.793	196	143605	50.0000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.922	154	511419	50.0000
69)	Diphenyl	(3)	6.922	154	511419	50.0000
70)	1,1'-Biphenyl	(3)	6.922	154	511419	50.0000
71)	2-Chloronaphthalene	(3)	6.935	162	492674M	50.0000
72)	1-Chloronaphthalene	(3)	6.947	162	411312M	50.0000
73)	Diphenyl ether	(3)	7.014	170	297059	50.0000
74)	2-Nitroaniline	(3)	7.027	138	118312	50.0000
77)	Dimethylphthalate	(3)	7.193	163	487825	50.0000
79)	2,6-Dinitrotoluene	(3)	7.236	165	103817	50.0000
80)	Acenaphthylene	(3)	7.273	152	665594	50.0000
81)	3-Nitroaniline	(3)	7.365	138	113511	50.0000
82)	Acenaphthene-d10	(3)	7.390	164	286677	40.0000
83)	Acenaphthene	(3)	7.414	153	414587	50.0000
84)	2,4-Dinitrophenol	(3)	7.451	184	31217	50.0000
85)	Pentachlorobenzene	(3)	7.525	250	168386	50.0000
86)	4-Nitrophenol	(3)	7.506	109	81716	50.0000
87)	Dibenzofuran	(3)	7.562	168	596724	50.0000
88)	2,4-Dinitrotoluene	(3)	7.562	165	133066	50.0000
90)	1-Naphthylamine	(3)	7.629	143	442273	50.0000
91)	2,3,4,6-Tetrachlorophenol	(3)	7.660	232	104202	50.0000
92)	2-Naphthylamine	(3)	7.691	143	454498	50.0000
93)	Diethylphthalate	(3)	7.783	149	498336	50.0000
94)	Fluorene	(3)	7.845	166	493281	50.0000
96)	4-Chlorophenyl-phenylether	(3)	7.857	204	222947	50.0000
98)	4-Nitroaniline	(3)	7.869	138	126250	50.0000
99)	4,6-Dinitro-2-methylphenol	(4)	7.894	198	51862	50.0000
102)	N-Nitrosodiphenylamine	(4)	7.955	169	373415	50.0000
103)	1,2-Diphenylhydrazine	(4)	7.986	77	571956	50.0000
108)	Phorate	(4)	8.207	75	330231	50.0000
110)	4-Bromophenyl-phenylether	(4)	8.257	248	137903	50.0000
112)	Hexachlorobenzene	(4)	8.287	284	144934	50.0000
116)	Pentachlorophenol	(4)	8.453	266	90751	50.0000
120)	Phenanthrene-d10	(4)	8.607	188	529389	40.0000
121)	Phenanthrene	(4)	8.625	178	733760	50.0000
122)	Dinoseb	(4)	8.619	211	74233	50.0000
124)	Anthracene	(4)	8.668	178	766800	50.0000
125)	Carbazole	(4)	8.804	167	728291	50.0000
126)	Methyl parathion	(4)	8.933	109	134643	50.0000
127)	Ronnel	(4)	9.007	285	188561	50.0000
128)	Di-n-butylphthalate	(4)	9.123	149	843872	50.0000
129)	Parathion	(4)	9.259	109	91255	50.0000
134)	Fluoranthene	(4)	9.597	202	830343	50.0000
135)	Benzidine	(5)	9.726	184	1429308	150.0000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

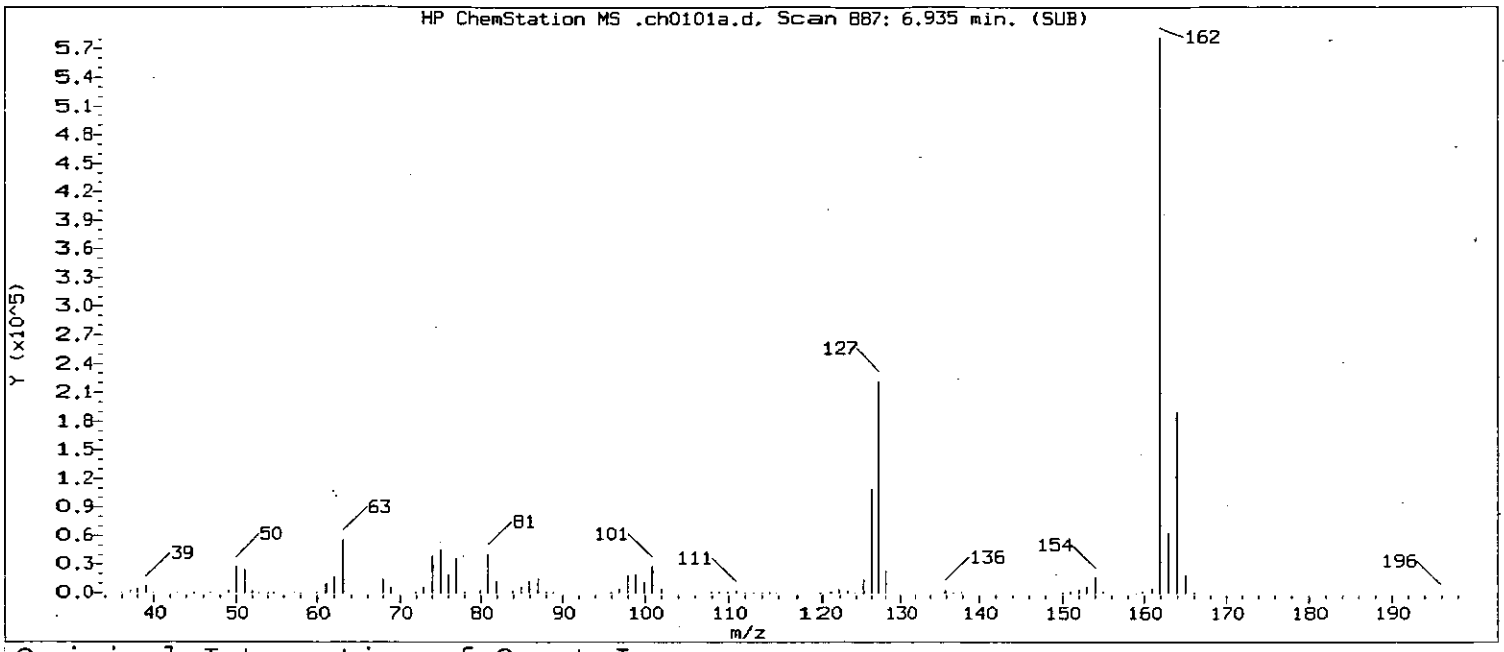
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

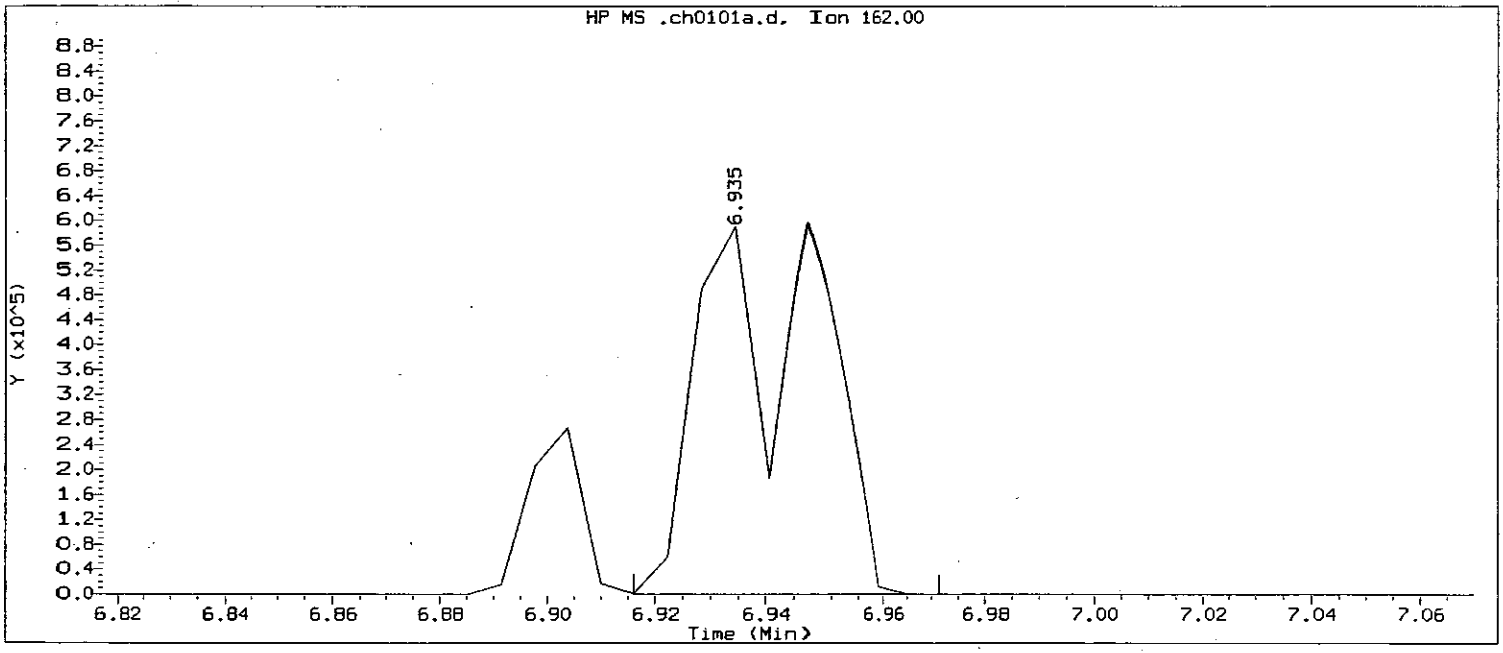
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.781	202	857532	50.0000
143) Butylbenzylphthalate	(5)	10.347	149	387697	50.0000
145) 3,3'-Dichlorobenzidine	(5)	10.759	252	291288	50.0000
146) Benzo(a)anthracene	(5)	10.765	228	760002	50.0000
147) Hexabromobenzene	(5)	10.777	552	23380	50.0000
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	145800	50.0000
149) Chrysene-d12	(5)	10.771	240	532468	40.0000
150) Chrysene	(5)	10.796	228	763899	50.0000
151) bis(2-Ethylhexyl)phthalate	(5)	10.833	149	528110	50.0000
152) 6-Methylchrysene	(5)	11.165	242	549702	50.0000
156) Di-n-octylphthalate	(6)	11.368	149	851109	50.0000
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.632	256	388106	50.0000
158) Benzo(b)fluoranthene	(6)	11.632	252	739037	50.0000
159) Benzo(k)fluoranthene	(6)	11.651	252	874821	50.0000
160) Benzo(a)pyrene	(6)	11.878	252	745484	50.0000
161) Perylene-d12	(6)	11.921	264	435628	40.0000
162) 3-Methylcholanthrene	(6)	12.149	268	416041	50.0000
166) Dibenz(a,h)acridine	(6)	12.597	279	572950	50.0000
167) Dibenz(a,j)acridine	(6)	12.640	279	637324	50.0000
168) Indeno(1,2,3-cd)pyrene	(6)	12.800	276	844065	50.0000
169) Dibenz(a,h)anthracene	(6)	12.819	278	669360	50.0000
170) Benzo(g,h,i)perylene	(6)	13.046	276	691542	50.0000
9) 2-Fluorophenol	(1)	3.522	112	180343	50.0000
13) Phenol-d5	(1)	4.463	99	248282	50.0000
14) Phenol-d6	(1)	4.463	99	248282	50.0000
35) Nitrobenzene-d5	(2)	5.293	82	216819	50.0000
66) 2-Fluorobiphenyl	(3)	6.842	172	460408	50.0000
104) 2,4,6-Tribromophenol	(3)	8.035	330	66294	50.0000
138) Terphenyl-d14	(5)	9.929	244	557161	50.0000

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:19
Date, time and analyst ID of latest file update: 05-Aug-2007 07:19 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

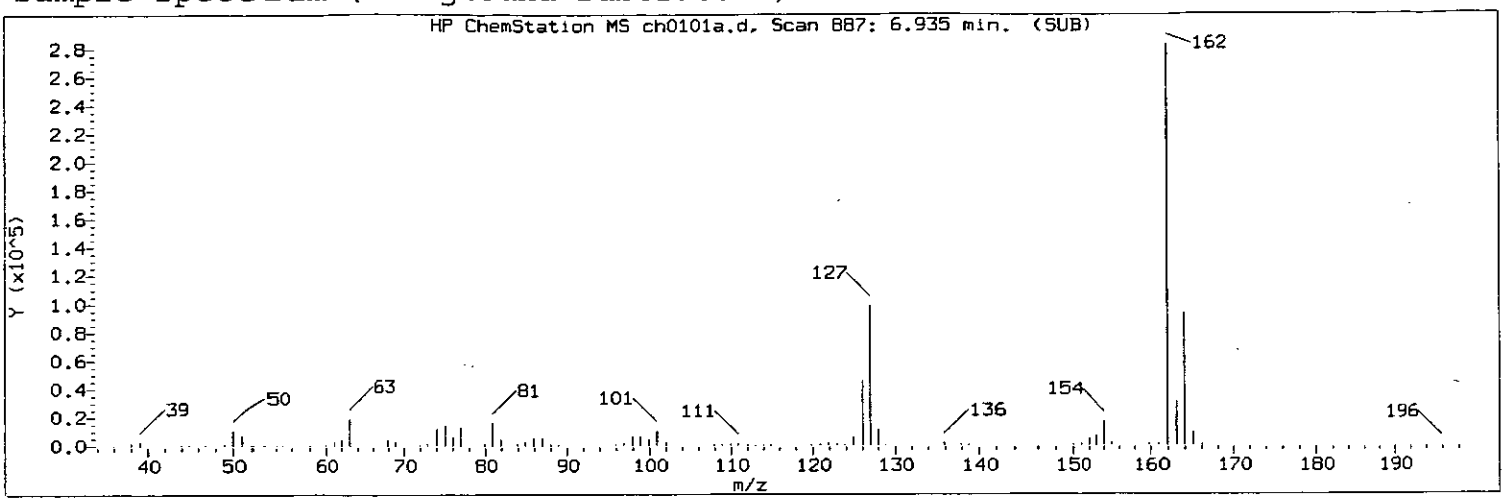
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.935
Quant Ion : 162
Area : 833261
Concentration (ng/ul) : 18.8883
Integration start scan : 883 Integration stop scan: 892
Y at integration start : 380 Y at integration end: 0

mac (3) 8/5/07

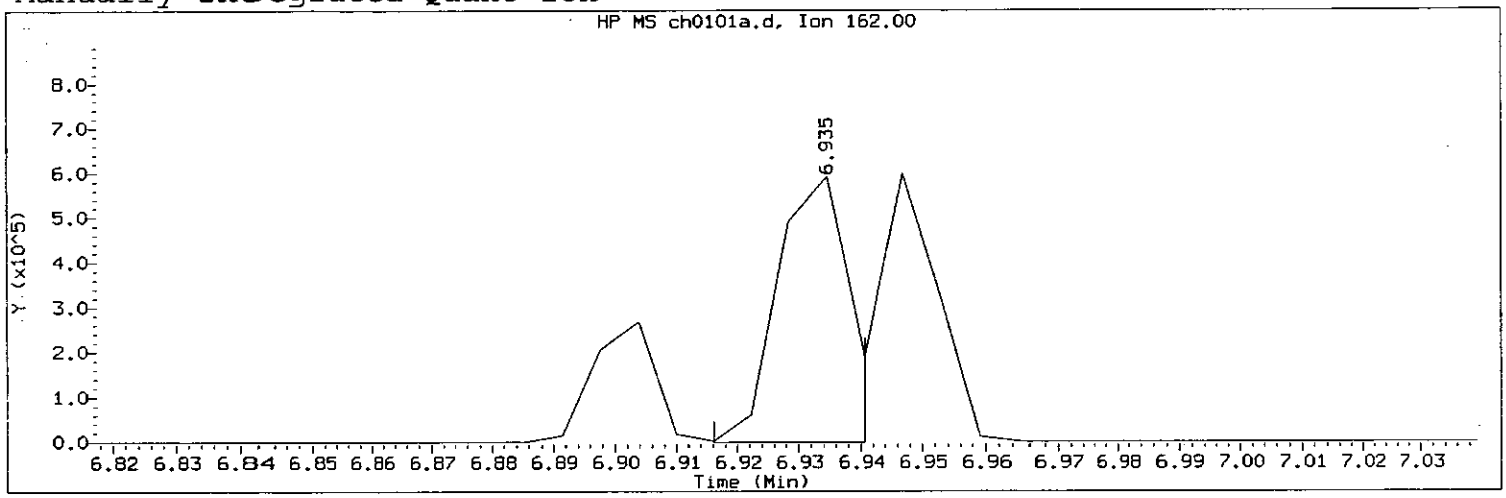
8270

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0101a.d, generated on 08/05/2007 at 07:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

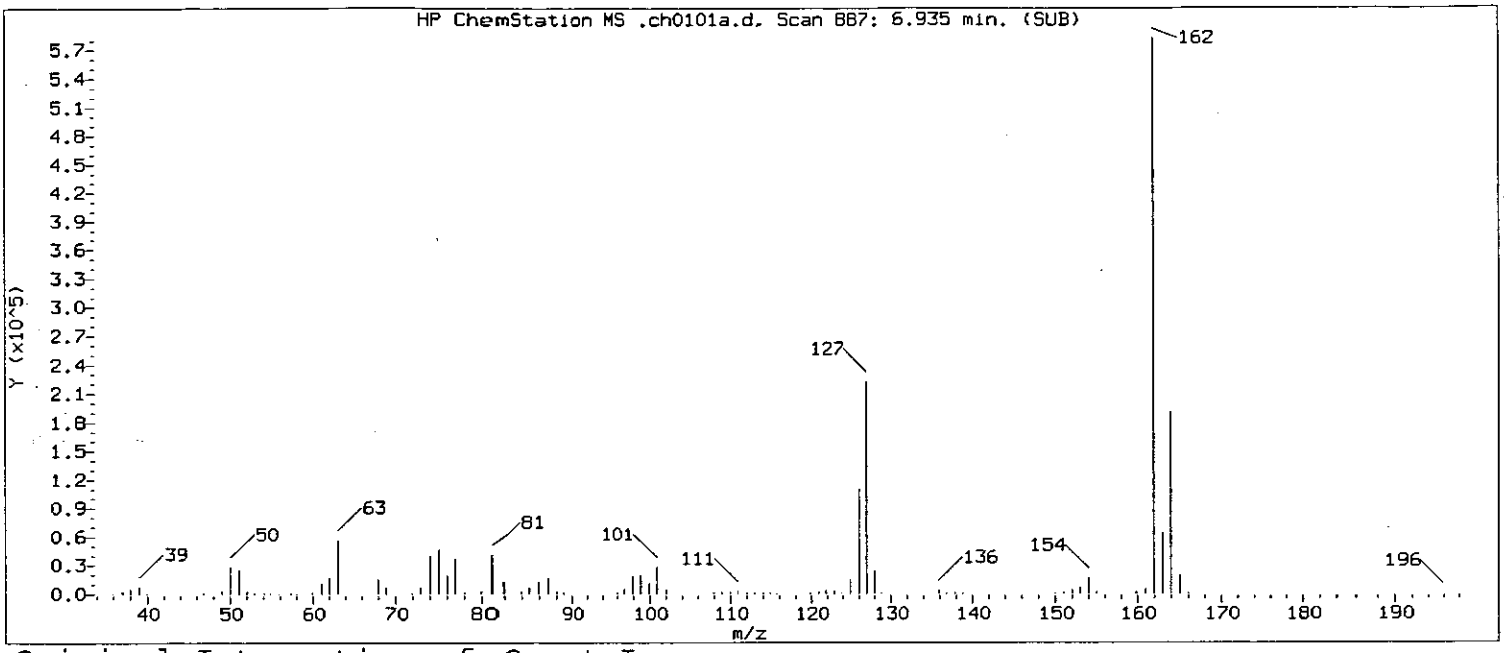
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.935
Quant Ion : 162
Area (flag) : 492674 M
Concentration (ng/ul) : 50.0000
Integration start scan : 883 Integration stop scan: 887
Y at integration start : -958 Y at integration end: -958

Reason for manual integration (circle one): missed peak improper integrati

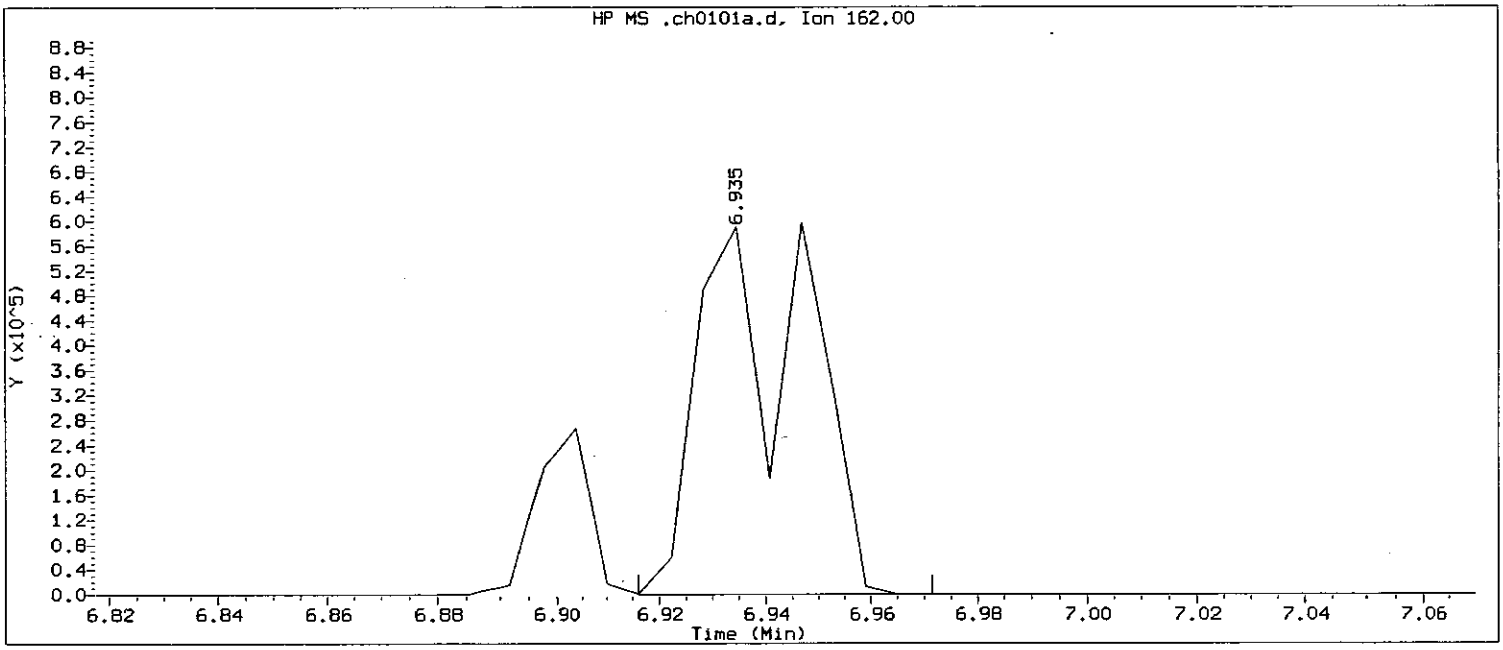
Analyst responsible for change: mac ③ 8/5/07

GC/MS audit/management approval: 8279 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:19
Date, time and analyst ID of latest file update: 05-Aug-2007 07:19 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

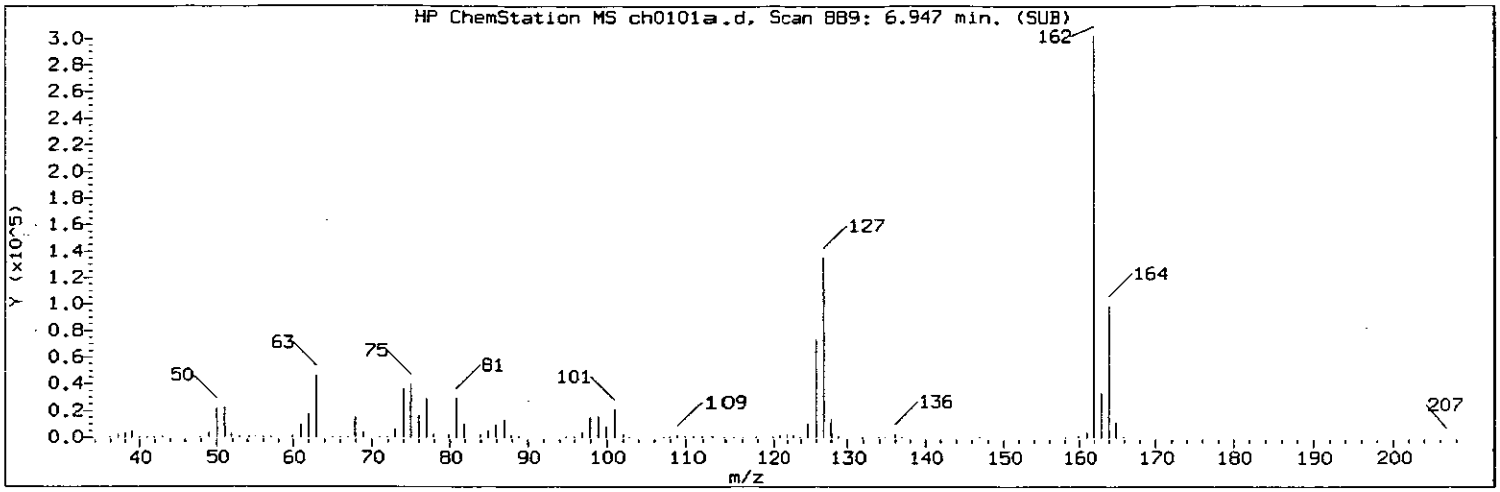
Compound Number	:	72
Compound Name	:	1-Chloronaphthalene
Scan Number	:	887
Retention Time (minutes)	:	6.935
Quant Ion	:	162
Area	:	833110
Concentration (ng/ul)	:	18.8883
Integration start scan	:	883
Integration stop scan	:	892
Y at integration start	:	471
Y at integration end	:	0

mc (13) 8/5/07

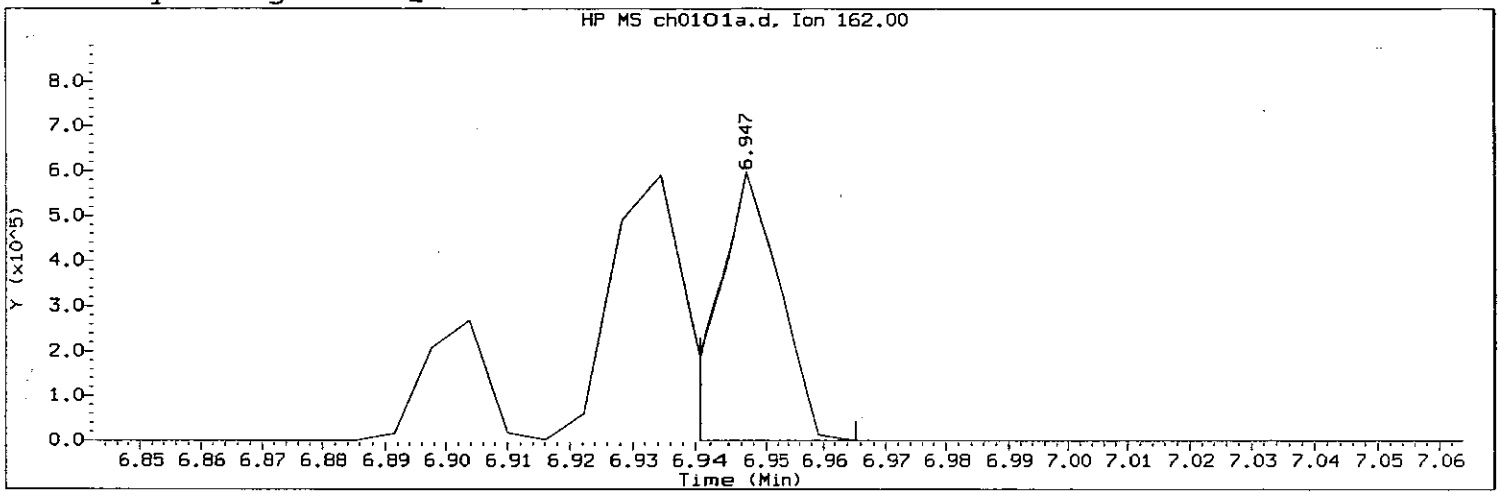
8280

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0101a.d, generated on 08/05/2007 at 07:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0101a.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:33 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:24
Date, time and analyst ID of latest file update: 05-Aug-2007 07:24 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2057

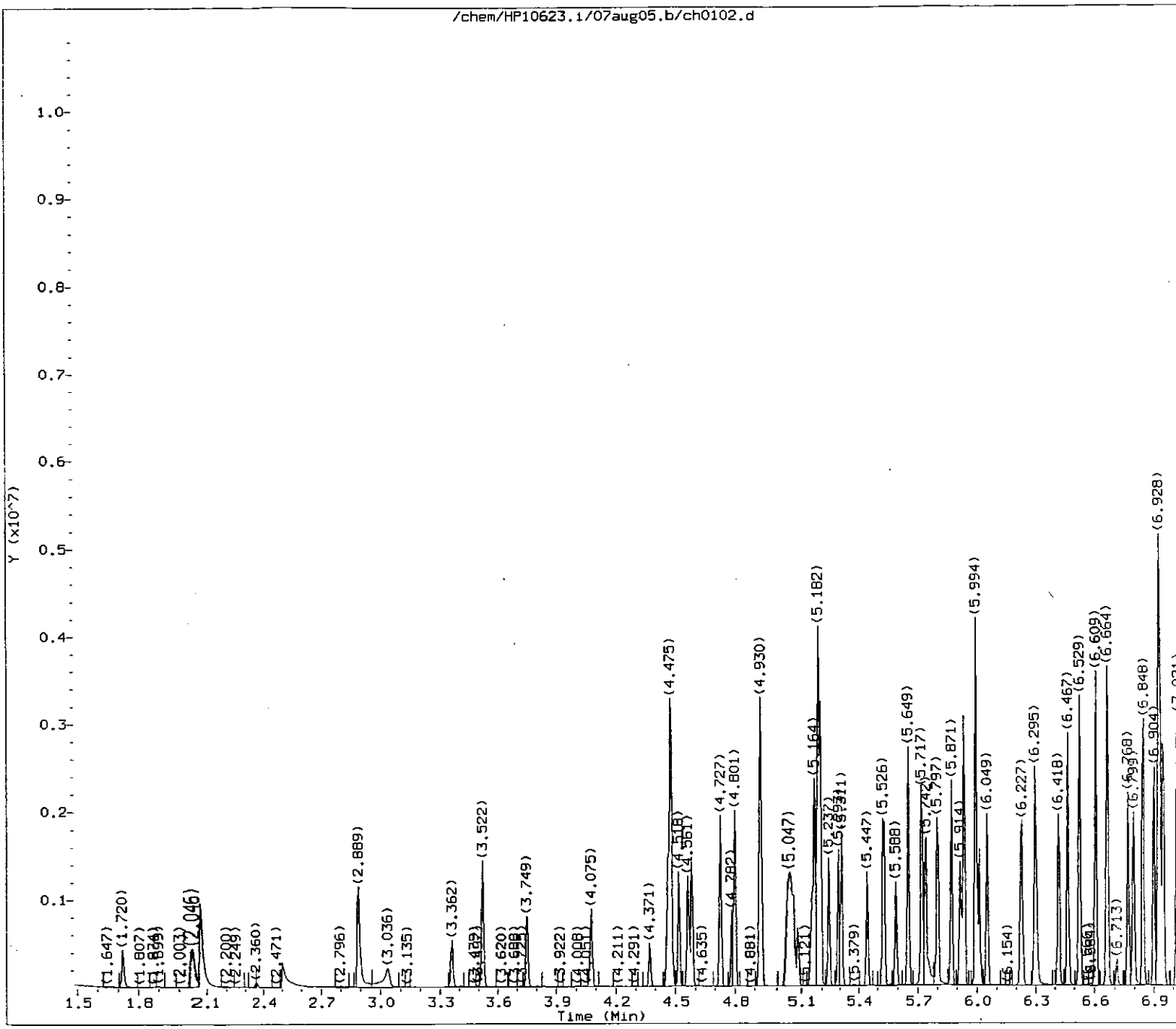
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 889
Retention Time (minutes): 6.947
Quant Ion : 162
Area (flag) : 411312 M
Concentration (ng/ul) : 50.0000
Integration start scan : 887 Integration stop scan: 891
Y at integration start : 507 Y at integration end: 507

Reason for manual integration (circle one): missed peak (improper integrat

Analyst responsible for change: mc(3) 8/5/07

GC/MS audit/management approval: 8/6/07

Manual Integration Report for data file /chem/HP10623.i/07aug05.b/ch0101a.d, generated on 08/05/2007 at 07:24



Quant Report

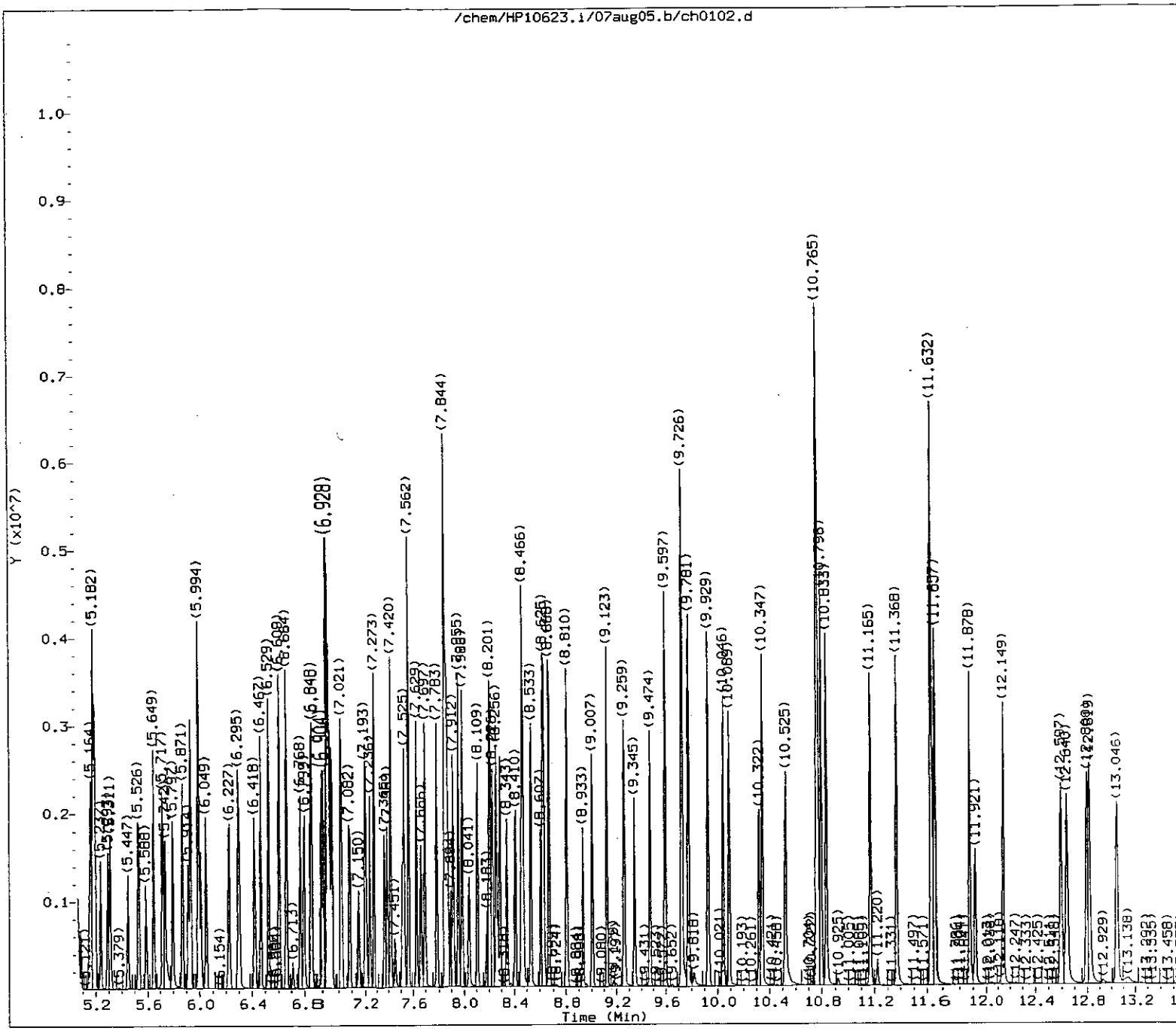
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

8282
mc (13) 8/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

0283

mac (13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.720	88	119874	79.3532
2) N-Nitrosodimethylamine	(1)	2.046	74	207317	82.4335
3) Pyridine	(1)	2.071	79	337102	75.9396
5) 2-Picoline	(1)	2.889	93	361571	79.9679
15) Phenol	(1)	4.475	94	477292	80.2465
16) Aniline	(1)	4.481	93	557701	79.2235
18) bis(2-Chloroethyl)ether	(1)	4.561	93	334066	79.4117
19) 2-Chlorophenol	(1)	4.580	128	313285	81.3122
20) 1,3-Dichlorobenzene	(1)	4.727	146	319802	79.9437
21) 1,4-Dichlorobenzene-d4	(1)	4.782	152	99379	40.0000
22) 1,4-Dichlorobenzene	(1)	4.801	146	328657	80.2345
23) Benzyl alcohol	(1)	4.930	108	228899	84.2486
24) 1,2-Dichlorobenzene	(1)	4.936	146	311173	79.6381
25) 2-Methylphenol	(1)	5.047	108	327346	80.4621
26) 2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	575556	80.3720
27) bis(2-Chloroisopropyl)ether	(1)	5.065	45	575556	80.3720
29) Acetophenone	(1)	5.164	105	477605	79.4773
30) N-Nitroso-di-n-propylamine	(1)	5.182	70	274900	79.2730
31) 4-Methylphenol	(1)	5.182	108	363718	80.6307
33) o-Toluidine	(1)	5.194	106	552380	80.2005
34) Hexachloroethane	(1)	5.237	117	122813	80.5496
36) Nitrobenzene	(2)	5.311	77	398450	81.5825
38) Isophorone	(2)	5.526	82	753756	80.0541
39) 2-Nitrophenol	(2)	5.588	139	141962	84.6599
40) 2,4-Dimethylphenol	(2)	5.649	107	355041	78.8214
42) bis(2-Chloroethoxy)methane	(2)	5.742	93	419204	78.5790
43) Benzoic acid	(2)	5.754	105	232313	88.5181
44) 2,4-Dichlorophenol	(2)	5.797	162	287488	81.0311
45) 1,2,4-Trichlorobenzene	(2)	5.871	180	277769	80.0009
46) Naphthalene-d8	(2)	5.914	136	440715	40.0000
47) Naphthalene	(2)	5.932	128	971873	79.8130
48) 4-Chloroaniline	(2)	5.994	127	415354	80.4254
49) 2,6-Dichlorophenol	(2)	5.994	162	268020	79.7949
51) Hexachlorobutadiene	(2)	6.049	225	154137	79.4366
52) Quinoline	(2)	6.227	129	669237	80.5056
53) Caprolactam	(2)	6.307	113	122994	81.3549
55) 4-Chloro-3-methylphenol	(2)	6.418	107	328334	81.1180
58) 2-Methylnaphthalene	(2)	6.529	142	662604	80.6899
60) 1-Methylnaphthalene	(2)	6.609	142	653711	80.2553
61) Hexachlorocyclopentadiene	(3)	6.664	237	168130	79.8232
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	277252	78.5769
64) 2,4,6-Trichlorophenol	(3)	6.768	196	203165	81.4801
65) 2,4,5-Trichlorophenol	(3)	6.799	196	236956	80.2420

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.928	154	834716	79.8058
69)	Diphenyl	(3)	6.928	154	834716	79.8058
70)	1,1'-Biphenyl	(3)	6.928	154	834716	79.8058
71)	2-Chloronaphthalene	(3)	6.934	162	761873M	77.6477
72)	1-Chloronaphthalene	(3)	6.947	162	723366M	82.7911
73)	Diphenyl ether	(3)	7.021	170	468196	78.4081
74)	2-Nitroaniline	(3)	7.027	138	208585	82.8893
77)	Dimethylphthalate	(3)	7.193	163	792751	79.6318
79)	2,6-Dinitrotoluene	(3)	7.236	165	174358	80.9489
80)	Acenaphthylene	(3)	7.273	152	1071874	79.2691
81)	3-Nitroaniline	(3)	7.365	138	197631	82.3891
82)	Acenaphthene-d10	(3)	7.389	164	293862	40.0000
83)	Acenaphthene	(3)	7.420	153	669457	79.3771
84)	2,4-Dinitrophenol	(3)	7.457	184	60622	86.7415
85)	Pentachlorobenzene	(3)	7.525	250	271466	79.3128
86)	4-Nitrophenol	(3)	7.512	109	133654	79.8899
87)	Dibenzofuran	(3)	7.562	168	954332	78.9920
88)	2,4-Dinitrotoluene	(3)	7.568	165	228650	81.8632
90)	1-Naphthylamine	(3)	7.629	143	686411	77.7922
91)	2,3,4,6-Tetrachlorophenol	(3)	7.666	232	172176	80.2971
92)	2-Naphthylamine	(3)	7.697	143	715430	78.3575
93)	Diethylphthalate	(3)	7.783	149	804253	79.3553
94)	Fluorene	(3)	7.844	166	797968	79.4493
96)	4-Chlorophenyl-phenylether	(3)	7.857	204	366061	80.0443
98)	4-Nitroaniline	(3)	7.875	138	212329	81.0046
99)	4,6-Dinitro-2-methylphenol	(4)	7.894	198	105364	88.8752
102)	N-Nitrosodiphenylamine	(4)	7.955	169	595864	79.2514
103)	1,2-Diphenylhydrazine	(4)	7.986	77	935249	80.2285
108)	Phorate	(4)	8.207	75	559009	81.6132
110)	4-Bromophenyl-phenylether	(4)	8.256	248	221528	79.5184
112)	Hexachlorobenzene	(4)	8.287	284	235300	79.9418
116)	Pentachlorophenol	(4)	8.453	266	158970	82.9809
120)	Phenanthrene-d10	(4)	8.607	188	537946	40.0000
121)	Phenanthrene	(4)	8.632	178	1188761	79.8579
122)	Dinoseb	(4)	8.619	211	148855	88.3584
124)	Anthracene	(4)	8.668	178	1240268	79.7927
125)	Carbazole	(4)	8.810	167	1164088	79.3182
126)	Methyl parathion	(4)	8.933	109	228075	81.6401
127)	Ronnel	(4)	9.007	285	302856	79.5119
128)	Di-n-butylphthalate	(4)	9.123	149	1369173	79.9169
129)	Parathion	(4)	9.259	109	156389	82.1055
134)	Fluoranthene	(4)	9.597	202	1328408	79.3544
135)	Benzidine	(5)	9.732	184	2253957	240.8047

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

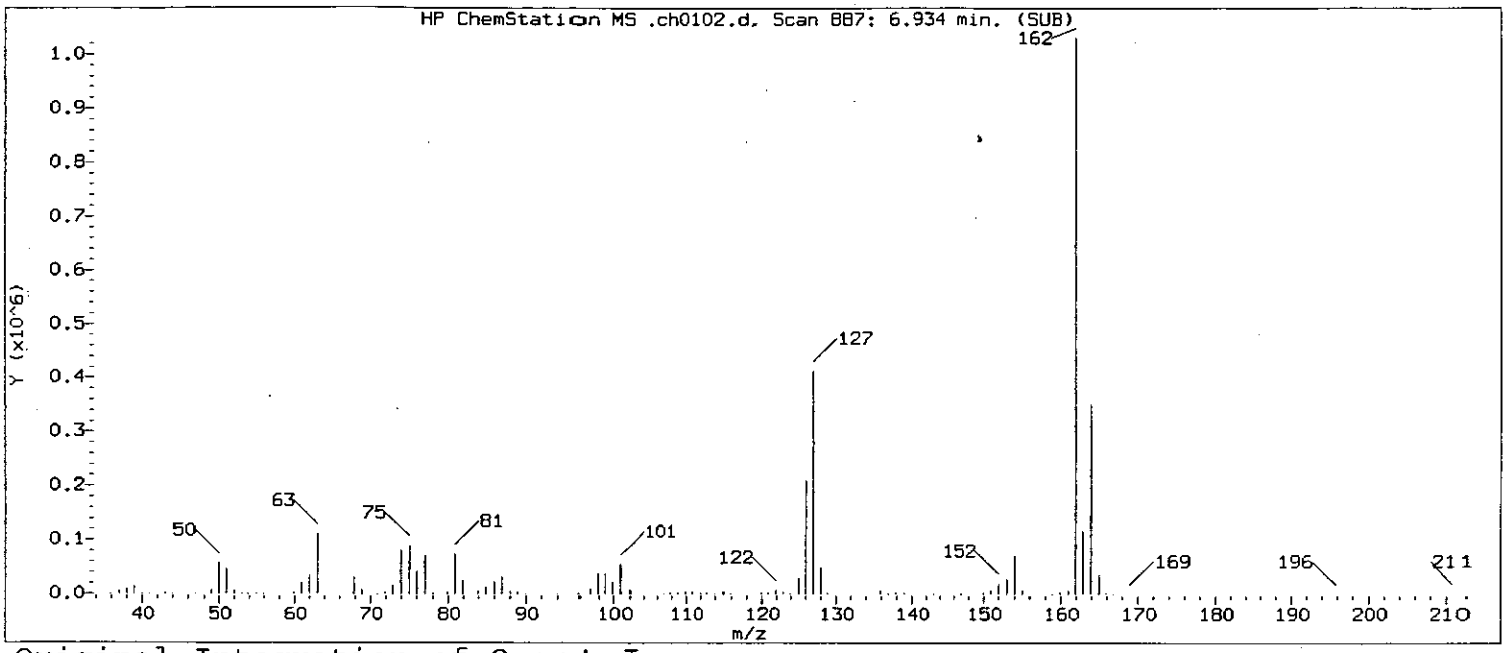
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

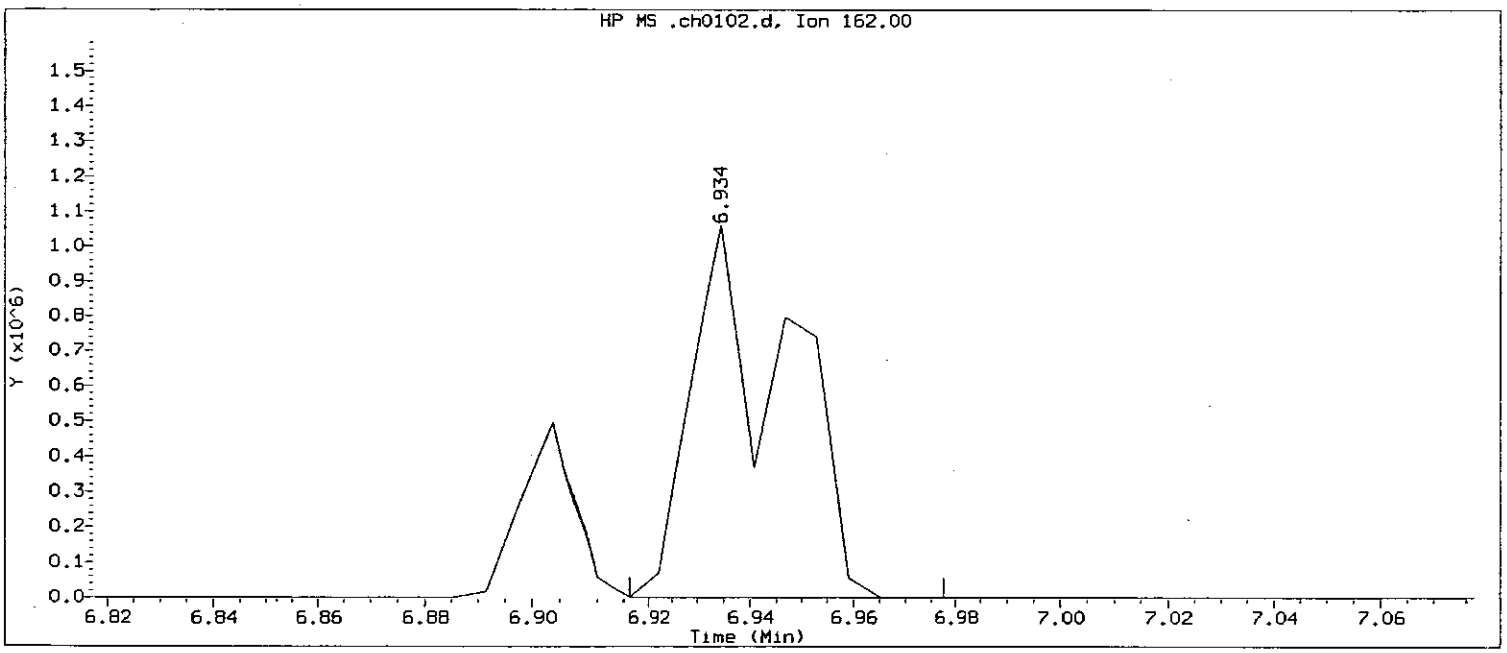
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.781	202	1355683	80.3684
143) Butylbenzylphthalate	(5)	10.347	149	638472	82.0021
145) 3,3'-Dichlorobenzidine	(5)	10.759	252	475144	81.6203
146) Benzo(a)anthracene	(5)	10.765	228	1208094	80.5875
147) Hexabromobenzene	(5)	10.777	552	37250	80.6792
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	237232	81.5203
149) Chrysene-d12	(5)	10.771	240	521292	40.0000
150) Chrysene	(5)	10.796	228	1174002	79.2379
151) bis(2-Ethylhexyl)phthalate	(5)	10.833	149	878624	82.4097
152) 6-Methylchrysene	(5)	11.165	242	886988	81.1865
156) Di-n-octylphthalate	(6)	11.368	149	1443126	81.6957
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.632	256	610437	78.6908
158) Benzo(b)fluoranthene	(6)	11.632	252	1288962	82.8235
159) Benzo(k)fluoranthene	(6)	11.657	252	1287071	76.0224
160) Benzo(a)pyrene	(6)	11.878	252	1204105	79.7532
161) Perylene-d12	(6)	11.921	264	442488	40.0000
162) 3-Methylcholanthrene	(6)	12.149	268	680019	80.2283
166) Dibenz(a,h)acridine	(6)	12.597	279	951969	80.8842
167) Dibenz(a,j)acridine	(6)	12.640	279	1031891	79.8497
168) Indeno(1,2,3-cd)pyrene	(6)	12.800	276	1396305	80.7091
169) Dibenz(a,h)anthracene	(6)	12.819	278	1112587	80.8997
170) Benzo(g,h,i)perylene	(6)	13.052	276	1158446	81.2112
9) 2-Fluorophenol	(1)	3.522	112	299634	81.5965
13) Phenol-d5	(1)	4.463	99	403663	80.7293
14) Phenol-d6	(1)	4.463	99	403663	80.7293
35) Nitrobenzene-d5	(2)	5.293	82	363215	81.6909
66) 2-Fluorobiphenyl	(3)	6.848	172	747715	79.6060
104) 2,4,6-Tribromophenol	(3)	8.041	330	112945	81.5216
138) Terphenyl-d14	(5)	9.929	244	901535	81.2980

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:25 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

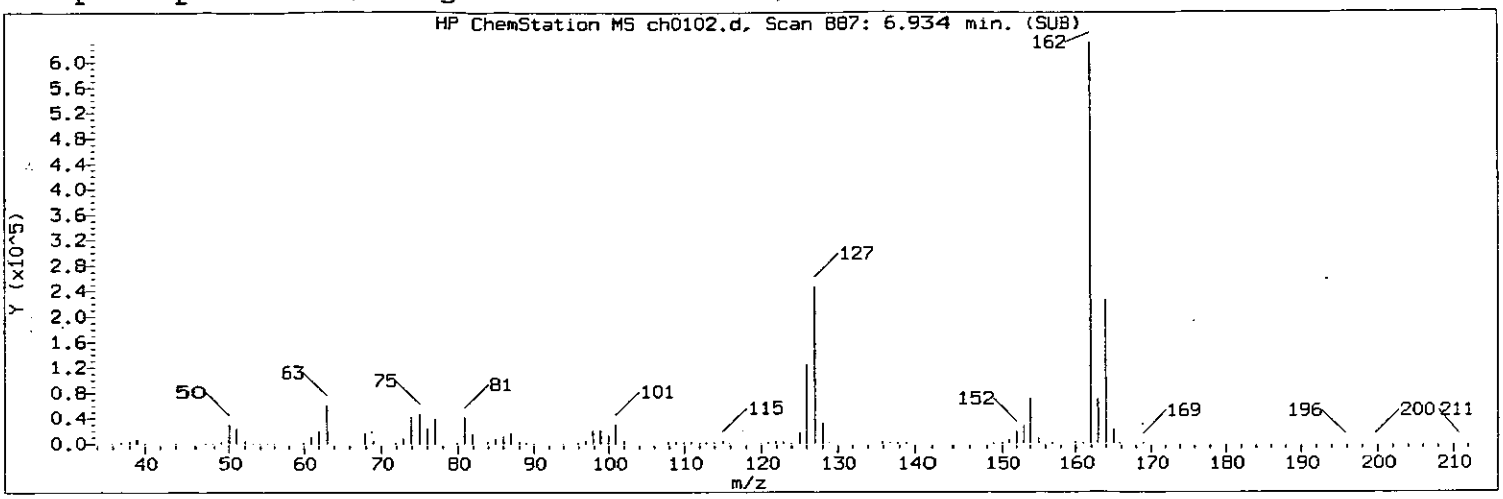
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.934
Quant Ion : 162
Area : 1356624
Concentration (ng/ul) : 100.2743
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 469 Y at integration end: 0

mc 8/5/07

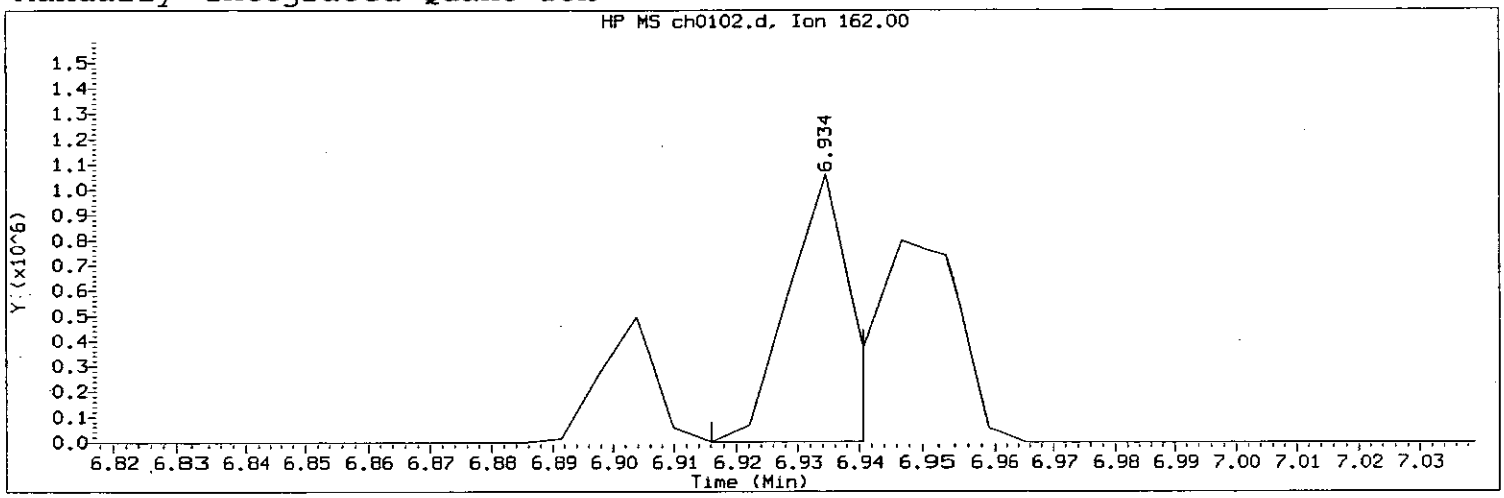
0287

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0102.d, generated on 08/05/2007 at 07:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

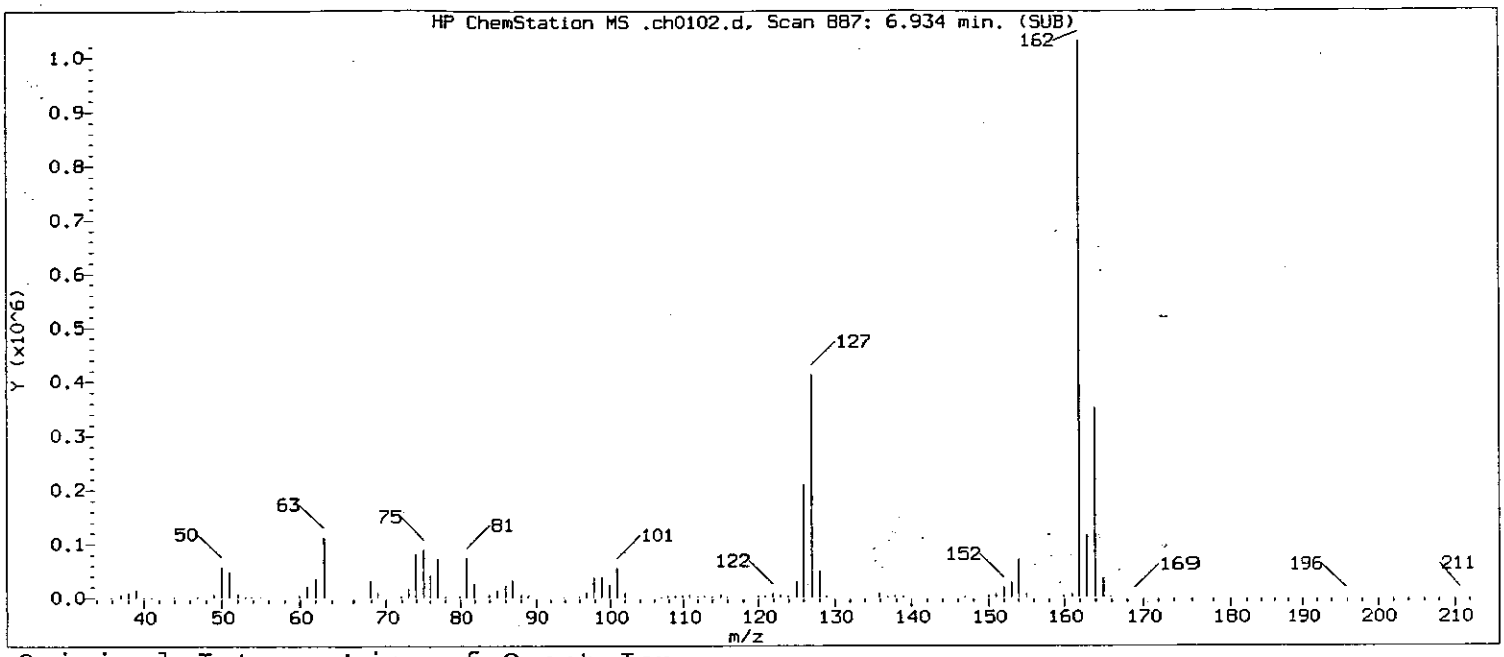
Compound Number	: 71		
Compound Name	: 2-Chloronaphthalene		
Scan Number	: 887		
Retention Time (minutes)	: 6.934		
Quant Ion	: 162		
Area (flag)	: 761873	M	
Concentration (ng/ul)	: 77.6477		
Integration start scan	: 883	Integration stop scan:	887
Y at integration start	: 3699	Y at integration end:	3699

Reason for manual integration (circle one): missed peak ~~improper integrati~~

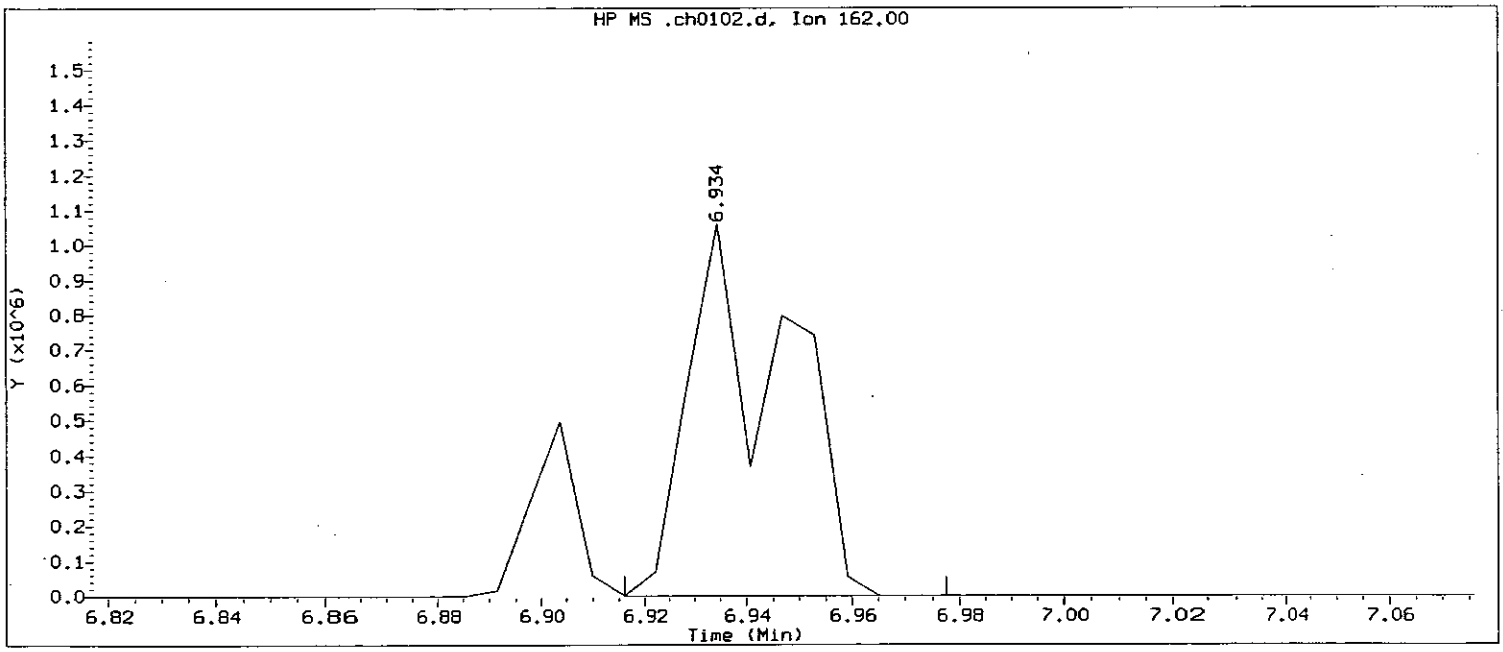
Analyst responsible for change: mc 8/5/07

GC/MS audit/management approval: 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:25 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2057

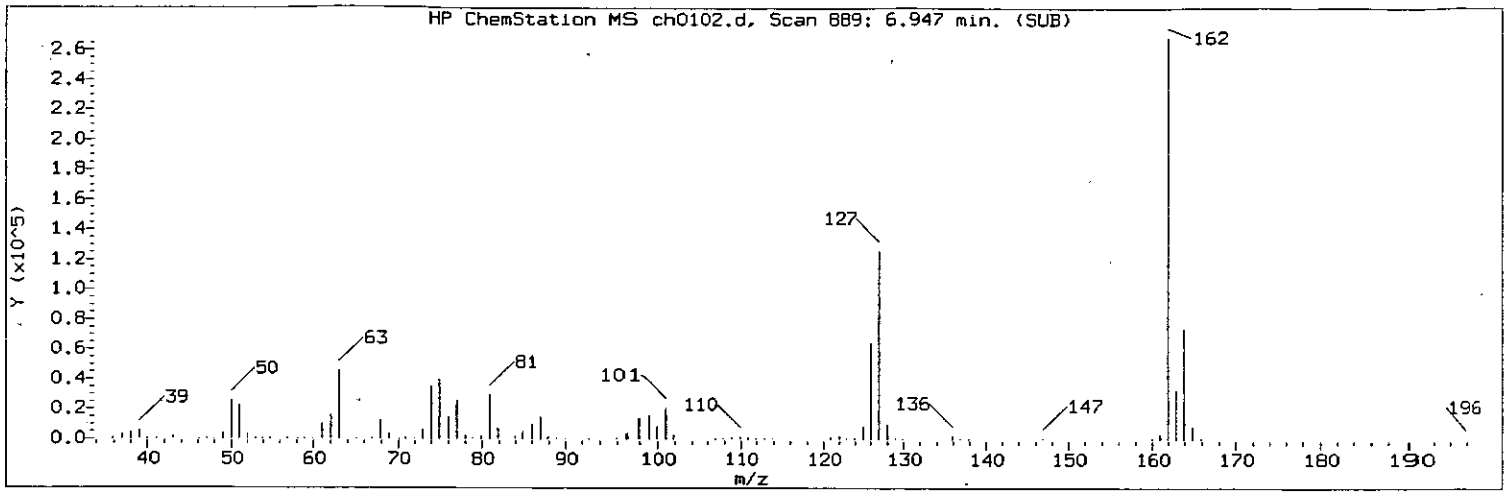
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.934
Quant Ion : 162
Area : 1356334
Concentration (ng/ul) : 106.8543
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 602 Y at integration end: 0

mc(3) 8/5/07

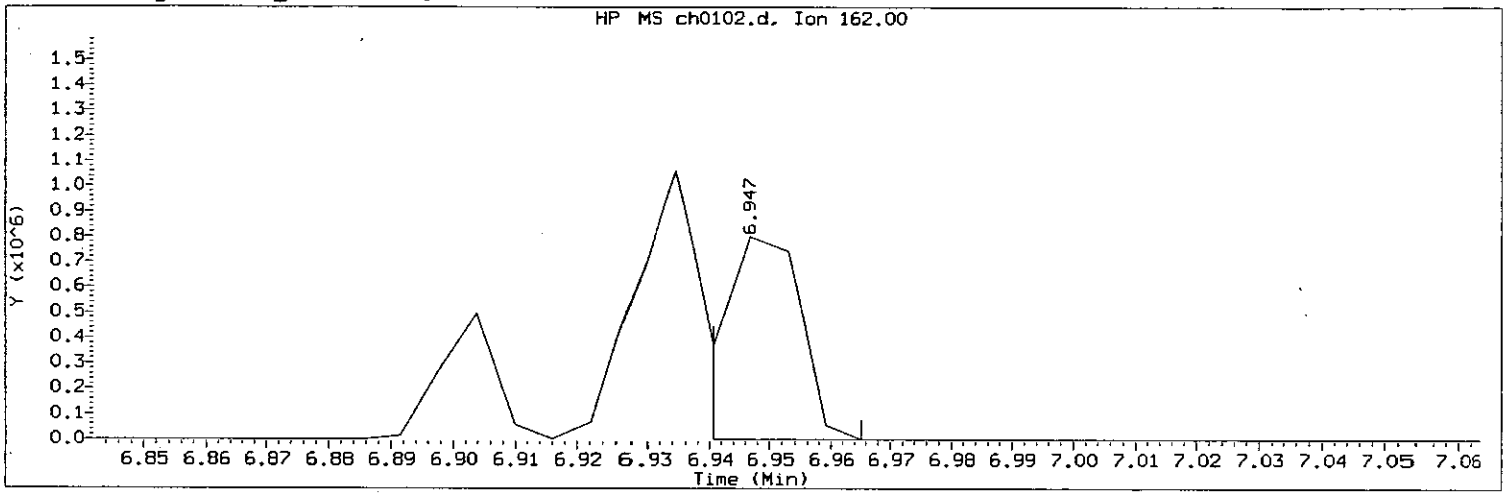
0289

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0102.d, generated on 08/05/2007 at 07:27

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0102.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 06:53 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:25
Date, time and analyst ID of latest file update: 05-Aug-2007 07:27 mac00013

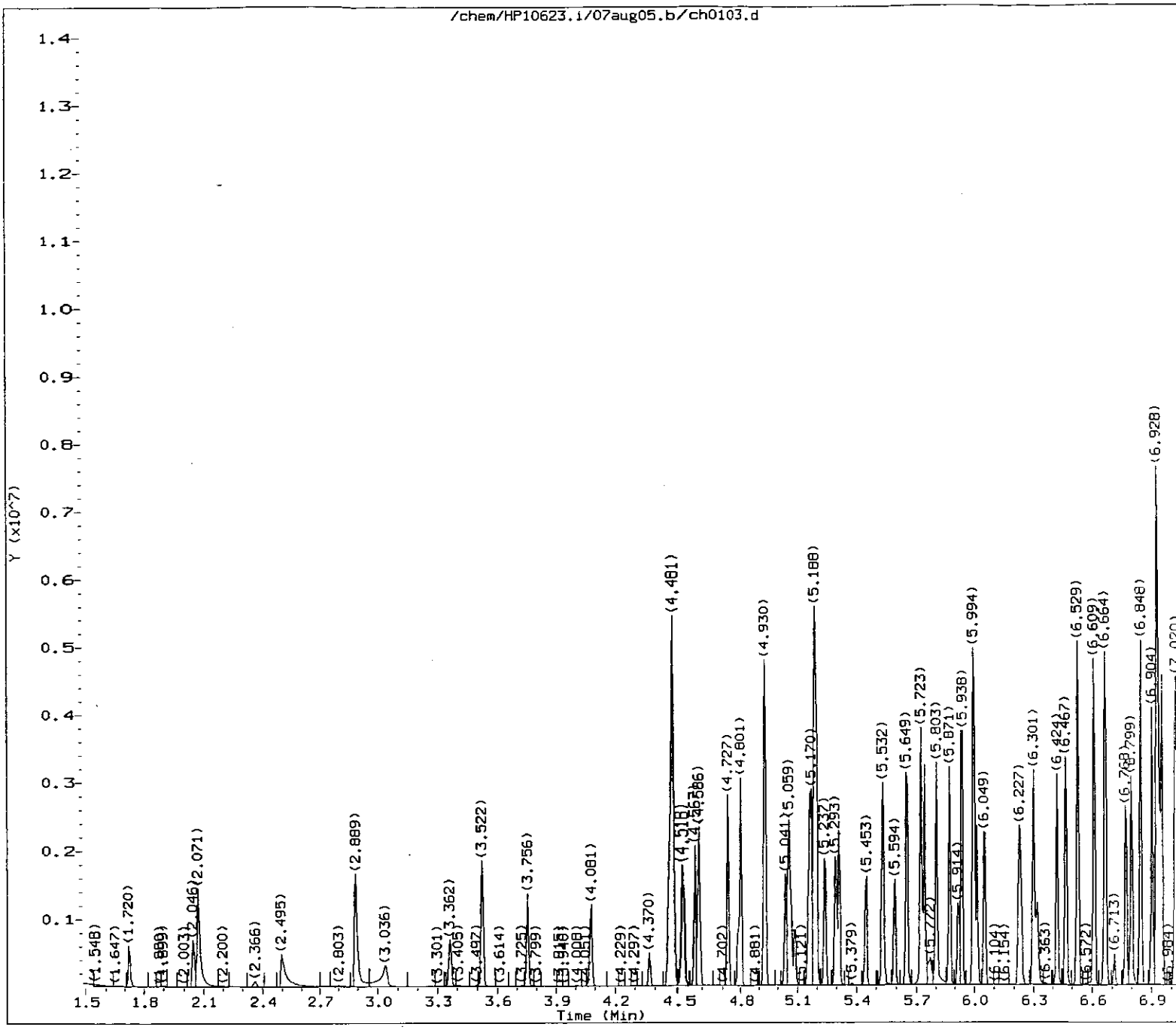
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number	: 72
Compound Name	: 1-Chloronaphthalene
Scan Number	: 889
Retention Time (minutes)	: 6.947
Quant Ion	: 162
Area (flag)	: 723366 M
Concentration (ng/ul)	: 82.7911
Integration start scan	: 887 Integration stop scan: 891
Y at integration start	: 799 Y at integration end: 799

Reason for manual integration (circle one): missed peak ~~improper integratio~~

Analyst responsible for change: mac (13) 8/5/07

GC/MS audit/management approval: 8/6/07



Quant Report

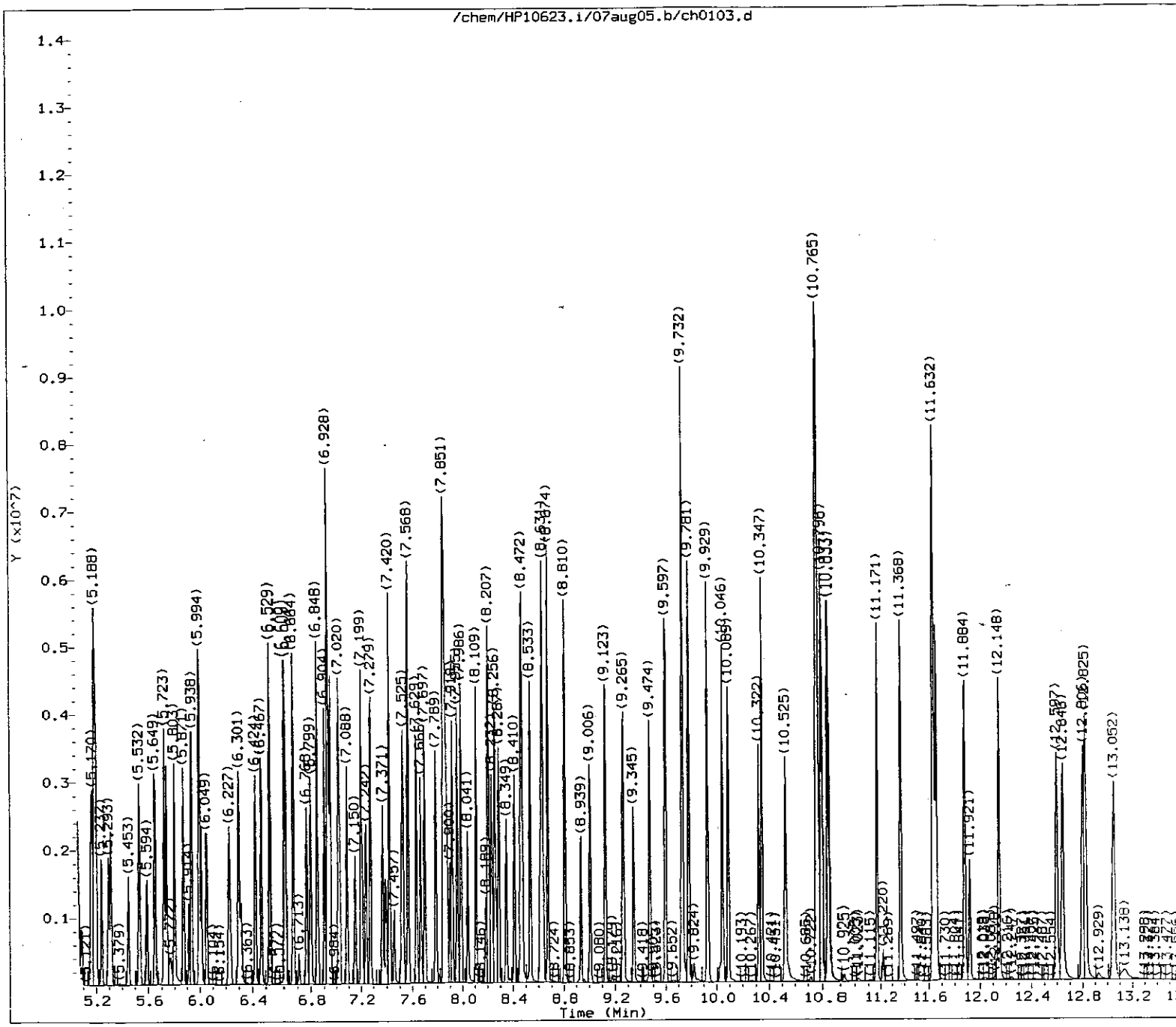
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

0291
mc 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0103.d
Injection date and time: 05-AUG-2007 07:14
Instrument ID: HP10623.i
Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m
Calibration date and time: 05-AUG-2007 07:29
Sublist used: all1
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120
Lab Sample ID: STD2057

8292
mac 8/15/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.720	88	175202	116.9082
2) N-Nitrosodimethylamine	(1)	2.046	74	309847	121.7271
3) Pyridine	(1)	2.071	79	516737	117.1989
5) 2-Picoline	(1)	2.889	93	542390	119.5878
15) Phenol	(1)	4.481	94	699755	118.0397
16) Aniline	(1)	4.481	93	807188	116.0100
18) bis(2-Chloroethyl)ether	(1)	4.567	93	499380	118.7524
19) 2-Chlorophenol	(1)	4.586	128	468381	120.6532
20) 1,3-Dichlorobenzene	(1)	4.727	146	470186	117.9639
21) 1,4-Dichlorobenzene-d4	(1)	4.789	152	99859	40.0000
22) 1,4-Dichlorobenzene	(1)	4.801	146	486057	118.7198
23) Benzyl alcohol	(1)	4.930	108	340719	123.1594
24) 1,2-Dichlorobenzene	(1)	4.936	146	462301	118.4888
25) 2-Methylphenol	(1)	5.041	108	479306	118.1511
26) 2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	845720	118.3424
27) bis(2-Chloroisopropyl)ether	(1)	5.065	45	845720	118.3424
29) Acetophenone	(1)	5.170	105	708011	118.1542
30) N-Nitroso-di-n-propylamine	(1)	5.188	70	404255	117.3134
31) 4-Methylphenol	(1)	5.182	108	533483	118.4545
33) o-Toluidine	(1)	5.194	106	799237	116.9512
34) Hexachloroethane	(1)	5.237	117	183694	119.9337
36) Nitrobenzene	(2)	5.311	77	589534	119.3551
38) Isophorone	(2)	5.532	82	1106178	117.2057
39) 2-Nitrophenol	(2)	5.594	139	221111	126.5085
40) 2,4-Dimethylphenol	(2)	5.649	107	542645	119.1989
42) bis(2-Chloroethoxy)methane	(2)	5.742	93	627525	117.3030
43) Benzoic acid	(2)	5.772	105	373455	132.8269
44) 2,4-Dichlorophenol	(2)	5.803	162	419138	117.6450
45) 1,2,4-Trichlorobenzene	(2)	5.871	180	404585	116.5592
46) Naphthalene-d8	(2)	5.914	136	446904	40.0000
47) Naphthalene	(2)	5.938	128	1437675	117.5968
48) 4-Chloroaniline	(2)	5.994	127	594963	115.6616
49) 2,6-Dichlorophenol	(2)	6.000	162	398296	117.9415
51) Hexachlorobutadiene	(2)	6.055	225	229981	117.9035
52) Quinoline	(2)	6.227	129	982510	117.6804
53) Caprolactam	(2)	6.320	113	182668	119.4342
55) 4-Chloro-3-methylphenol	(2)	6.424	107	486985	119.0953
58) 2-Methylnaphthalene	(2)	6.529	142	955886	116.4776
60) 1-Methylnaphthalene	(2)	6.609	142	945820	116.2827
61) Hexachlorocyclopentadiene	(3)	6.664	237	260308	123.0008
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.670	216	409116	117.8885
64) 2,4,6-Trichlorophenol	(3)	6.775	196	301901	121.3460
65) 2,4,5-Trichlorophenol	(3)	6.799	196	351010	119.8661

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.928	154	1192384	116.5497
69)	Diphenyl	(3)	6.928	154	1192384	116.5497
70)	1,1'-Biphenyl	(3)	6.928	154	1192384	116.5497
71)	2-Chloronaphthalene	(3)	6.934	162	1308639M	129.2436
72)	1-Chloronaphthalene	(3)	6.953	162	912558M	109.7579
73)	Diphenyl ether	(3)	7.020	170	682758	116.7837
74)	2-Nitroaniline	(3)	7.033	138	317491	124.6797
77)	Dimethylphthalate	(3)	7.199	163	1123661	115.7659
79)	2,6-Dinitrotoluene	(3)	7.242	165	260755	121.3338
80)	Acenaphthylene	(3)	7.279	152	1554606	117.2165
81)	3-Nitroaniline	(3)	7.371	138	287152	120.4325
82)	Acenaphthene-d10	(3)	7.389	164	291570	40.0000
83)	Acenaphthene	(3)	7.420	153	956687	116.1564
84)	2,4-Dinitrophenol	(3)	7.457	184	103365	137.9281
85)	Pentachlorobenzene	(3)	7.525	250	389027	116.3132
86)	4-Nitrophenol	(3)	7.519	109	205431	122.4800
87)	Dibenzofuran	(3)	7.568	168	1381701	116.8014
88)	2,4-Dinitrotoluene	(3)	7.568	165	335841	120.7880
90)	1-Naphthylamine	(3)	7.629	143	983175	114.7551
91)	2,3,4,6-Tetrachlorophenol	(3)	7.666	232	253001	119.2770
92)	2-Naphthylamine	(3)	7.697	143	978949	111.7686
93)	Diethylphthalate	(3)	7.789	149	1161865	116.9906
94)	Fluorene	(3)	7.844	166	1122924	115.0203
96)	4-Chlorophenyl-phenylether	(3)	7.857	204	519918	116.3321
98)	4-Nitroaniline	(3)	7.881	138	306150	118.4675
99)	4,6-Dinitro-2-methylphenol	(4)	7.900	198	168811	134.9504
102)	N-Nitrosodiphenylamine	(4)	7.961	169	867168	117.6903
103)	1,2-Diphenylhydrazine	(4)	7.986	77	1338083	117.3115
108)	Phorate	(4)	8.207	75	778161	116.4983
110)	4-Bromophenyl-phenylether	(4)	8.256	248	310229	114.9273
112)	Hexachlorobenzene	(4)	8.287	284	342681	118.4355
116)	Pentachlorophenol	(4)	8.459	266	231011	121.2434
120)	Phenanthrene-d10	(4)	8.613	188	532256	40.0000
121)	Phenanthrene	(4)	8.631	178	1682600	116.0983
122)	Dinoseb	(4)	8.619	211	238632	134.5086
124)	Anthracene	(4)	8.674	178	1770803	116.7175
125)	Carbazole	(4)	8.810	167	1678090	117.0054
126)	Methyl parathion	(4)	8.939	109	321285	117.4631
127)	Ronnel	(4)	9.013	285	414521	113.1371
128)	Di-n-butylphthalate	(4)	9.129	149	2013021	119.1662
129)	Parathion	(4)	9.259	109	235784	123.3602
134)	Fluoranthene	(4)	9.597	202	1952557	118.5822
135)	Benzidine	(5)	9.732	184	3085759	341.8847

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

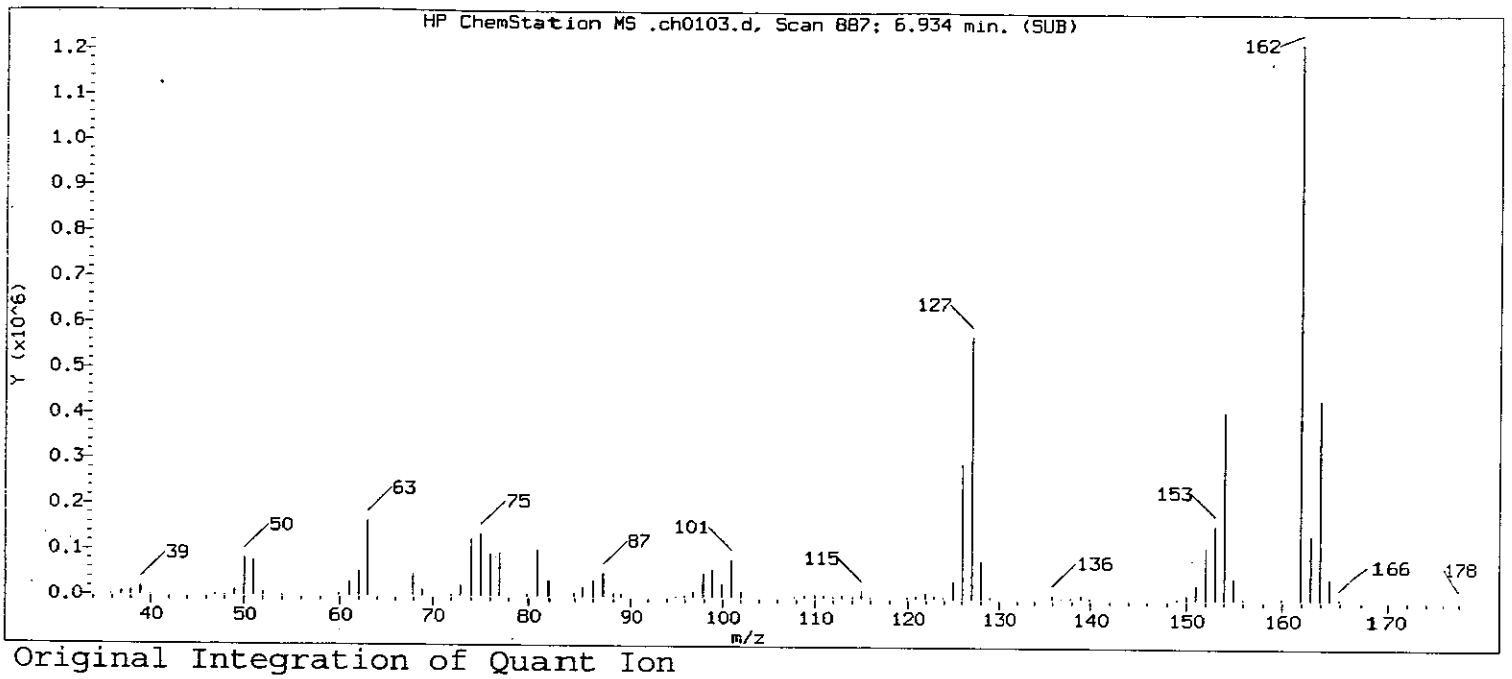
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

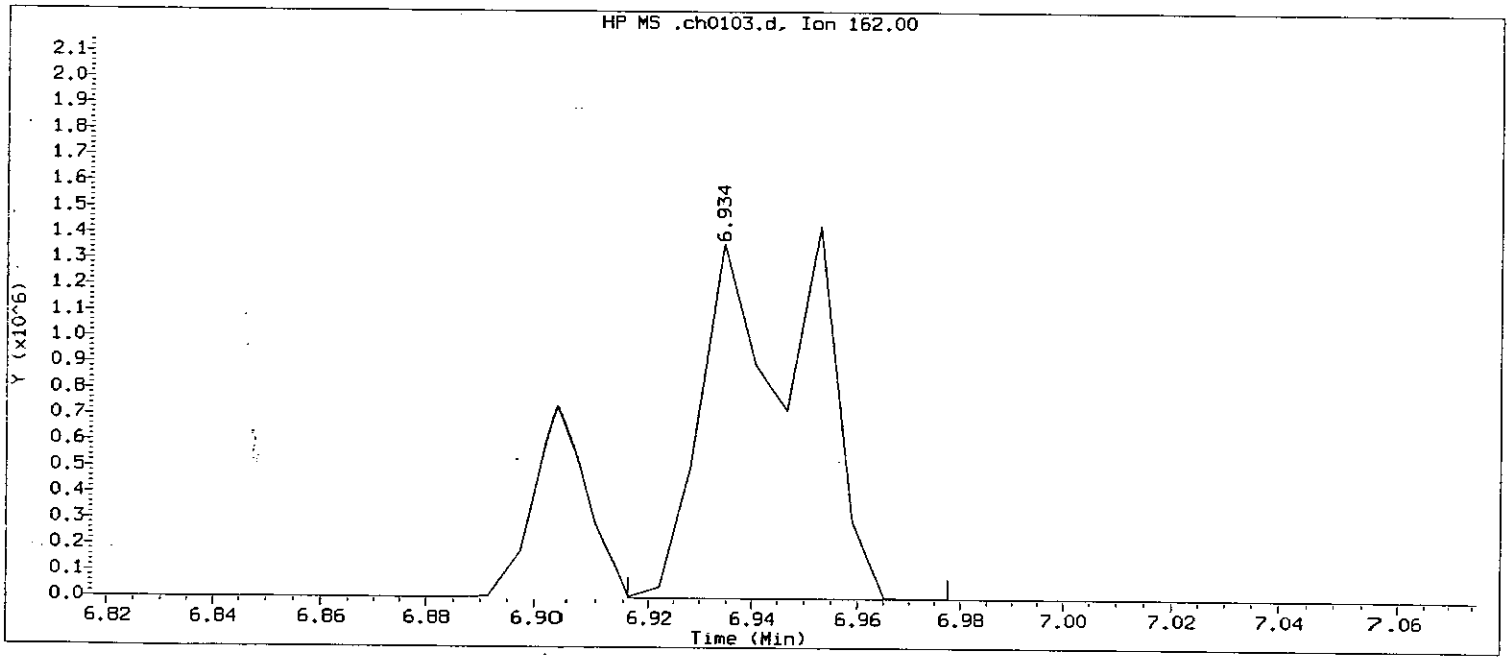
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.781	202	1943071	117.6614
143) Butylbenzylphthalate	(5)	10.347	149	906365	118.4964
145) 3,3'-Dichlorobenzidine	(5)	10.759	252	696940	120.7368
146) Benzo(a)anthracene	(5)	10.771	228	1735117	118.0410
147) Hexabromobenzene	(5)	10.777	552	58478	125.2972
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	343956	119.7092
149) Chrysene-d12	(5)	10.777	240	515317	40.0000
150) Chrysene	(5)	10.796	228	1764239	120.3036
151) bis(2-Ethylhexyl)phthalate	(5)	10.833	149	1300427	122.2367
152) 6-Methylchrysene	(5)	11.171	242	1309501	120.8298
156) Di-n-octylphthalate	(6)	11.368	149	2126848	118.5620
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.632	256	900635	115.6875
158) Benzo(b)fluoranthene	(6)	11.638	252	1736861	112.6086
159) Benzo(k)fluoranthene	(6)	11.657	252	2072962	119.9022
160) Benzo(a)pyrene	(6)	11.884	252	1801212	117.8339
161) Perylene-d12	(6)	11.921	264	452045	40.0000
162) 3-Methylcholanthrene	(6)	12.148	268	1019834	118.5080
166) Dibenz(a,h)acridine	(6)	12.597	279	1491630	122.6746
167) Dibenz(a,j)acridine	(6)	12.646	279	1508950	116.1367
168) Indeno(1,2,3-cd)pyrene	(6)	12.806	276	2079915	118.4442
169) Dibenz(a,h)anthracene	(6)	12.825	278	1657875	118.6597
170) Benzo(g,h,i)perylene	(6)	13.058	276	1735629	119.3994
9) 2-Fluorophenol	(1)	3.522	112	438719	119.2631
13) Phenol-d5	(1)	4.469	99	595425	119.0010
14) Phenol-d6	(1)	4.469	99	595425	119.0010
35) Nitrobenzene-d5	(2)	5.293	82	547562	120.9608
66) 2-Fluorobiphenyl	(3)	6.848	172	1067396	116.3001
104) 2,4,6-Tribromophenol	(3)	8.041	330	162313	118.7100
138) Terphenyl-d14	(5)	9.929	244	1290328	118.4619

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:29 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

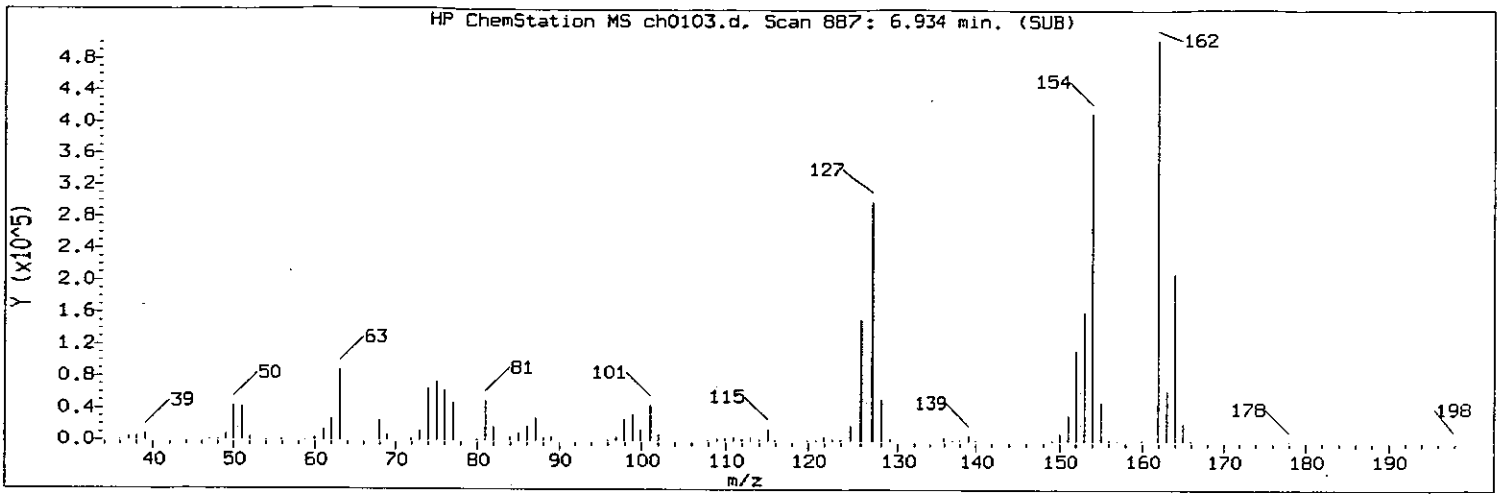
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.934
Quant Ion : 162
Area : 1944618
Concentration (ng/ul) : 163.5234
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 1062 Y at integration end: 0

mac 8/5/07

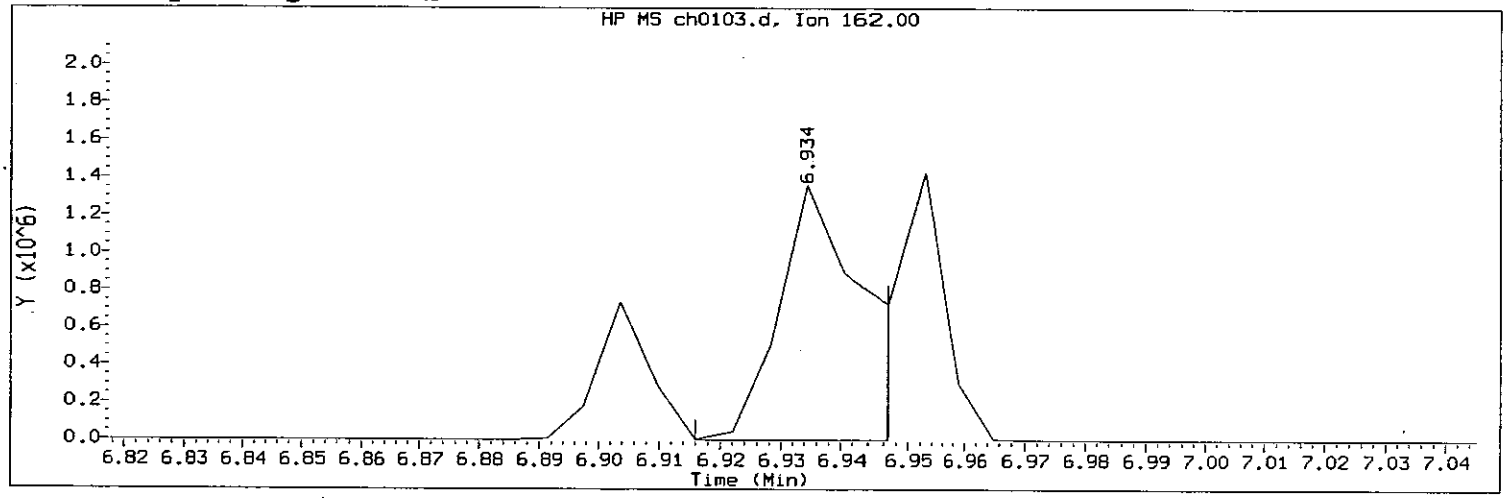
8296

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0103.d, generated on 08/05/2007 at 07:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

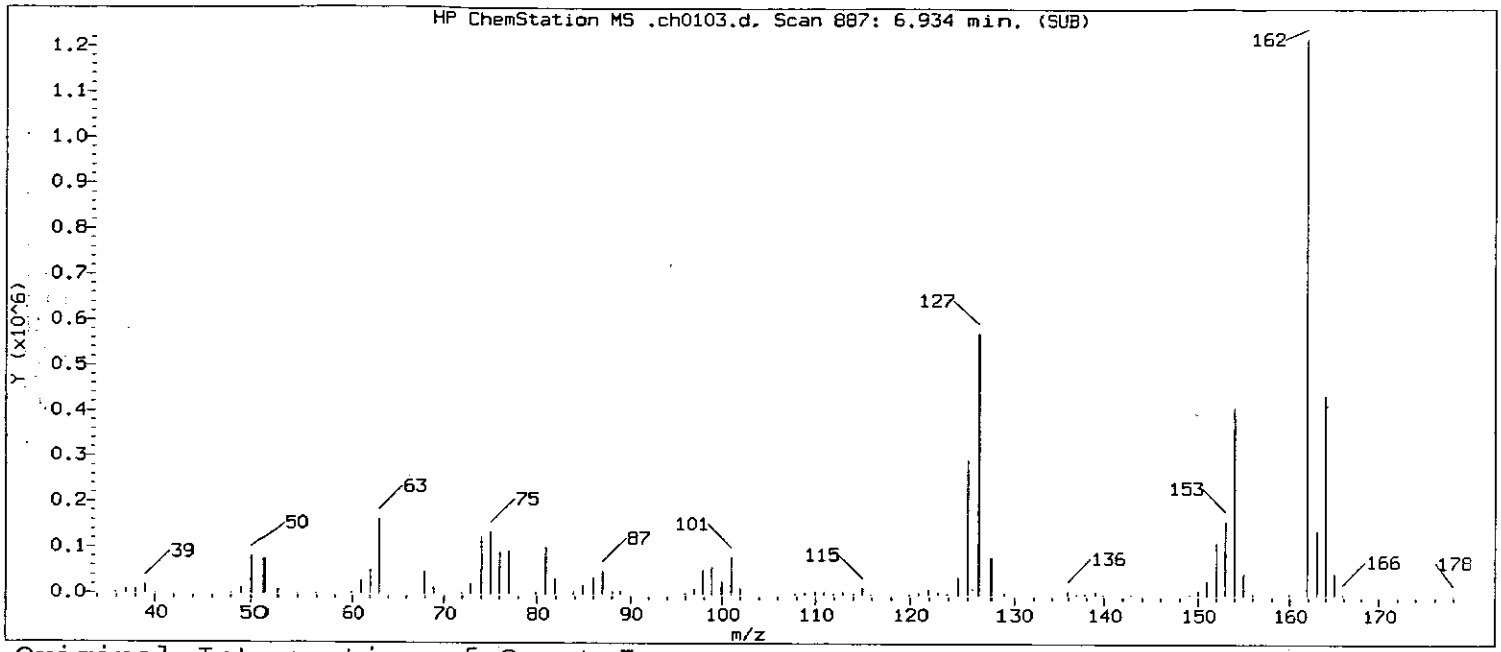
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 887
Retention Time (minutes): 6.934
Quant Ion : 162
Area (flag) : 1308639 M
Concentration (ng/ul) : 129.2436
Integration start scan : 883 Integration stop scan: 888
Y at integration start : -404 Y at integration end: -404

Reason for manual integration (circle one): missed peak improper integratio

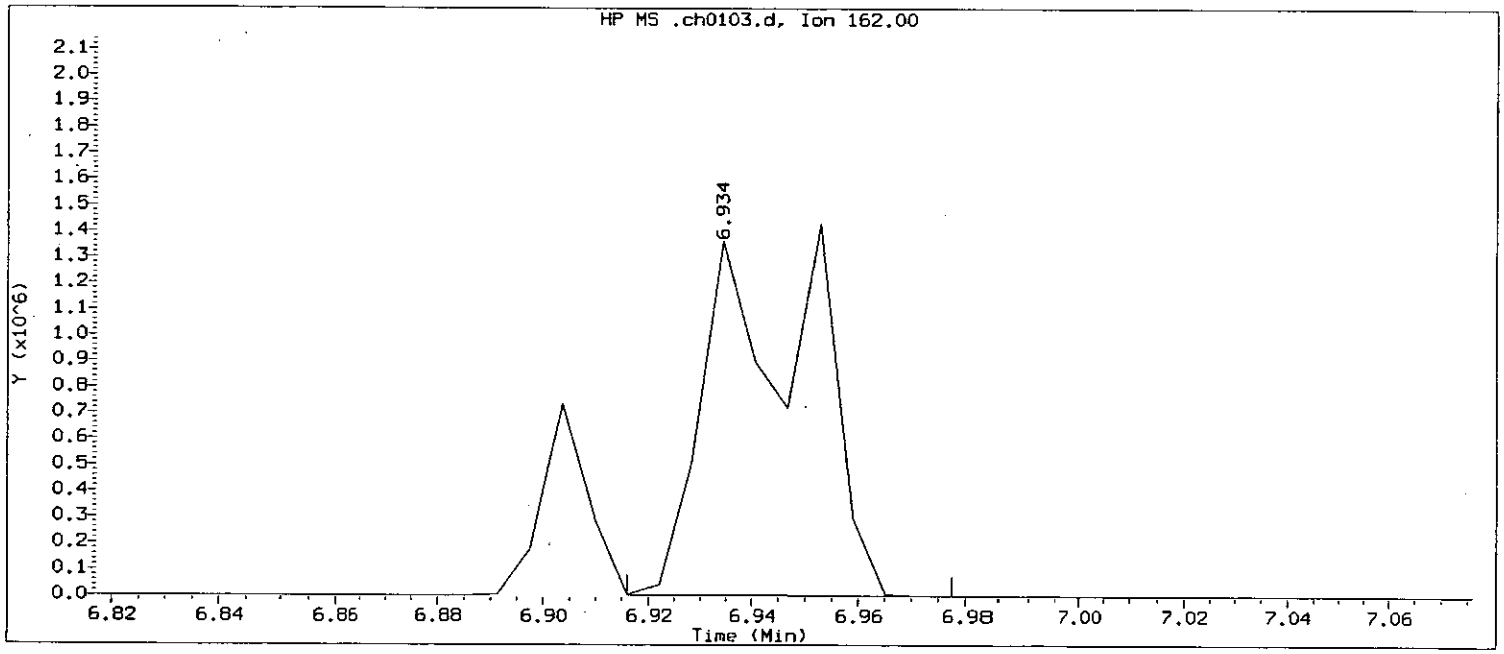
Analyst responsible for change: mc 8/5/07

GC/MS audit/management approval: 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:29 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

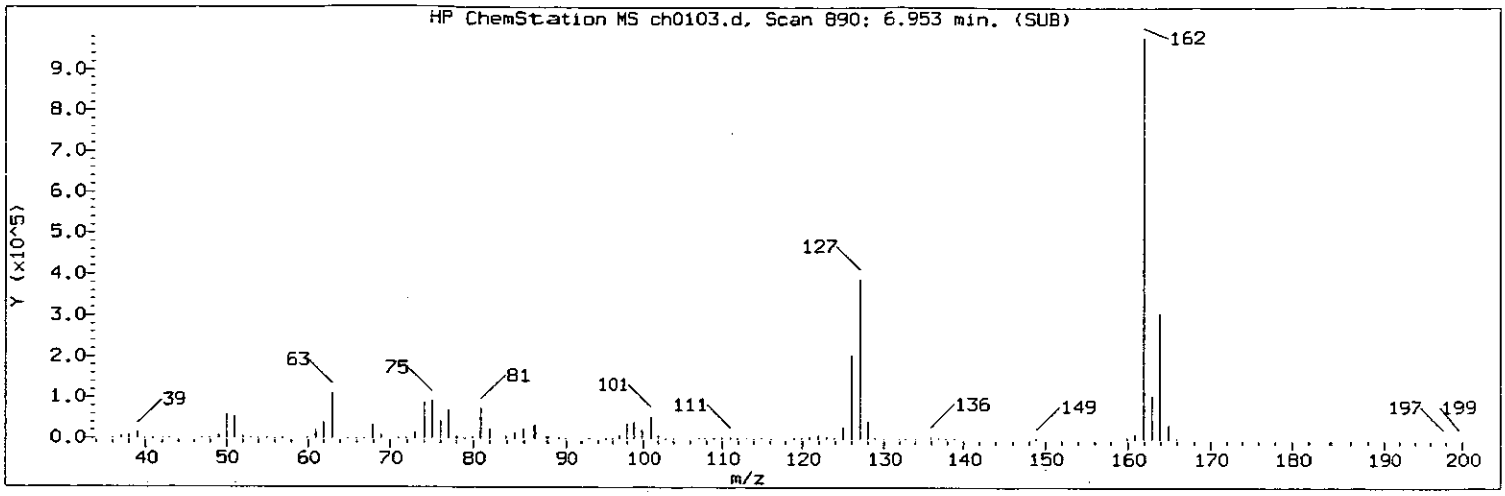
Compound Number	: 72
Compound Name	: 1-Chloronaphthalene
Scan Number	: 887
Retention Time (minutes)	: 6.934
Quant Ion	: 162
Area	: 1944068
Concentration (ng/ul)	: 173.8944
Integration start scan	: 883
Integration stop scan	: 893
Y at integration start	: 1360
Y at integration end	: 0

mc(13) 8/5/07

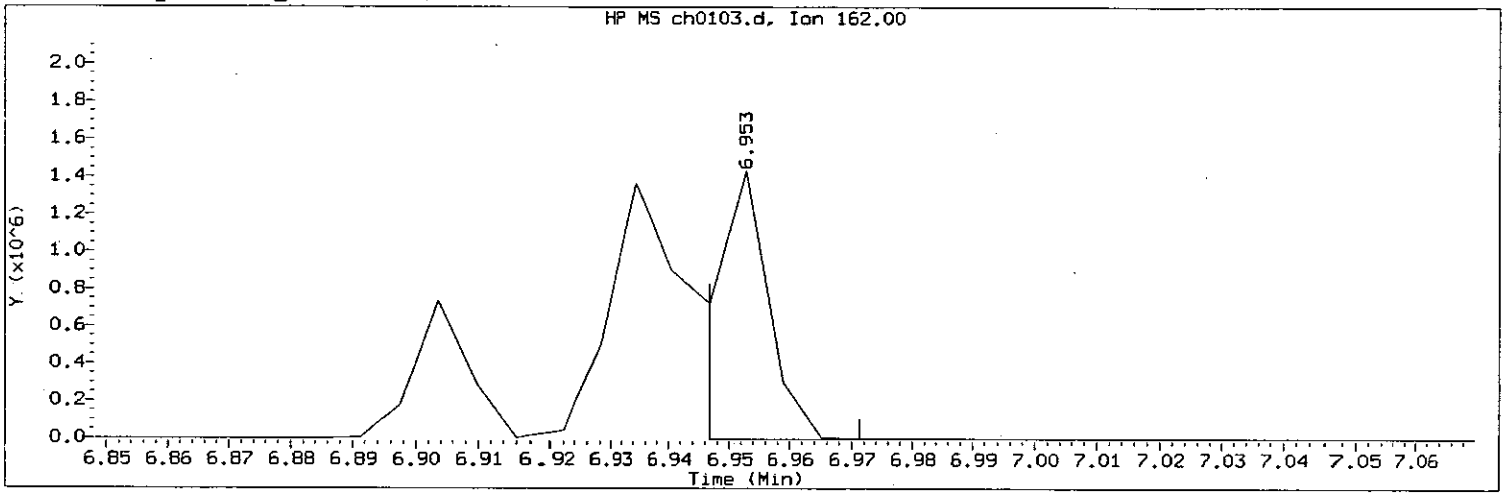
0290

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0103.d, generated on 08/05/2007 at 07:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0103.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:14 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:29
Date, time and analyst ID of latest file update: 05-Aug-2007 07:32 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2057

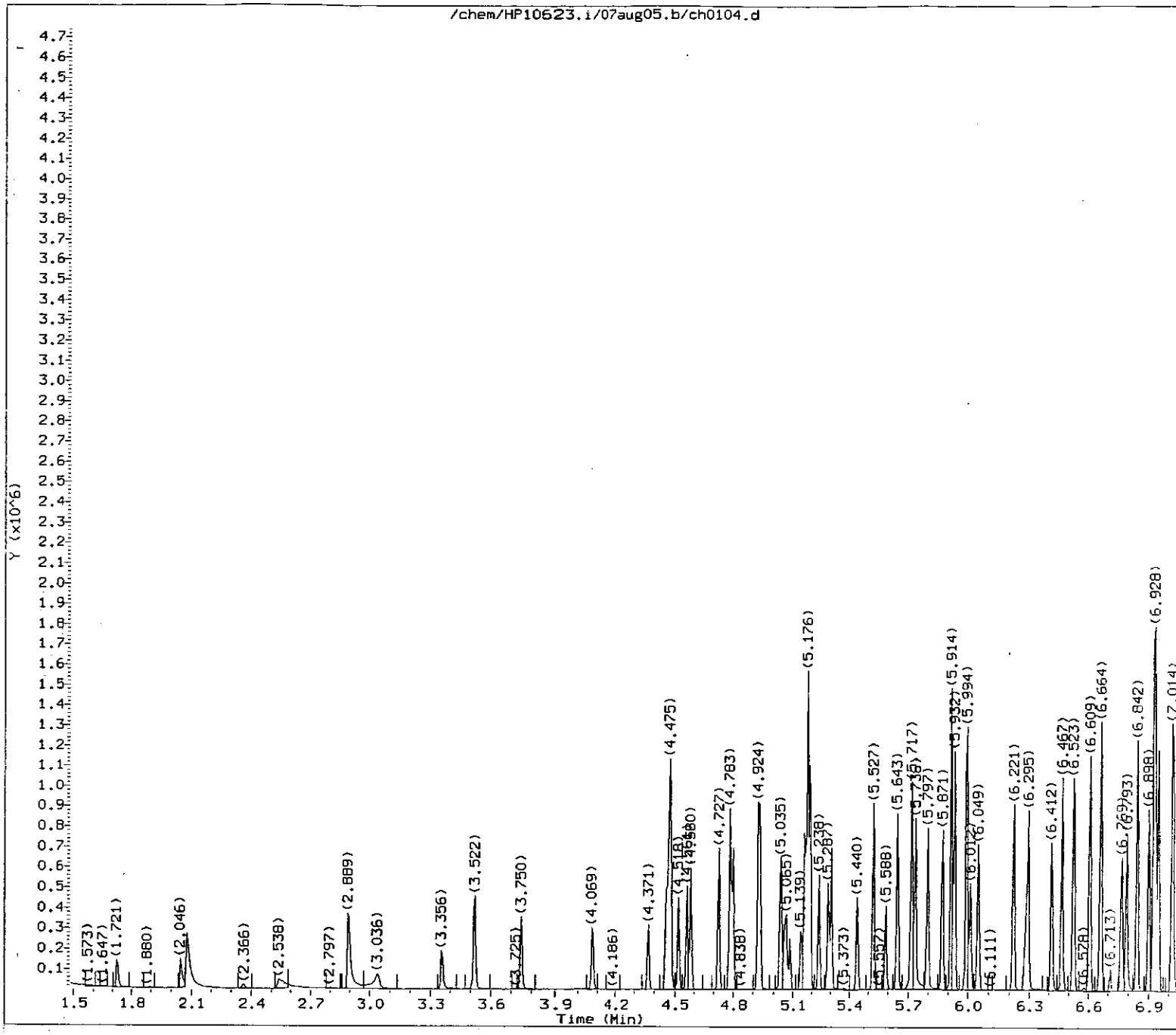
Compound Number	:	72
Compound Name	:	1-Chloronaphthalene
Scan Number	:	890
Retention Time (minutes)	:	6.953
Quant Ion	:	162
Area (flag)	:	912558 M
Concentration (ng/ul)	:	109.7579
Integration start scan	:	888 Integration stop scan: 892
Y at integration start	:	-3395 Y at integration end: -3395

Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 8299 8/8/07

Manual Integration Report for data file /chem/HP10623.i/07aug05.b/ch0103.d, generated on 08/05/2007 at 07:32



Quant Report

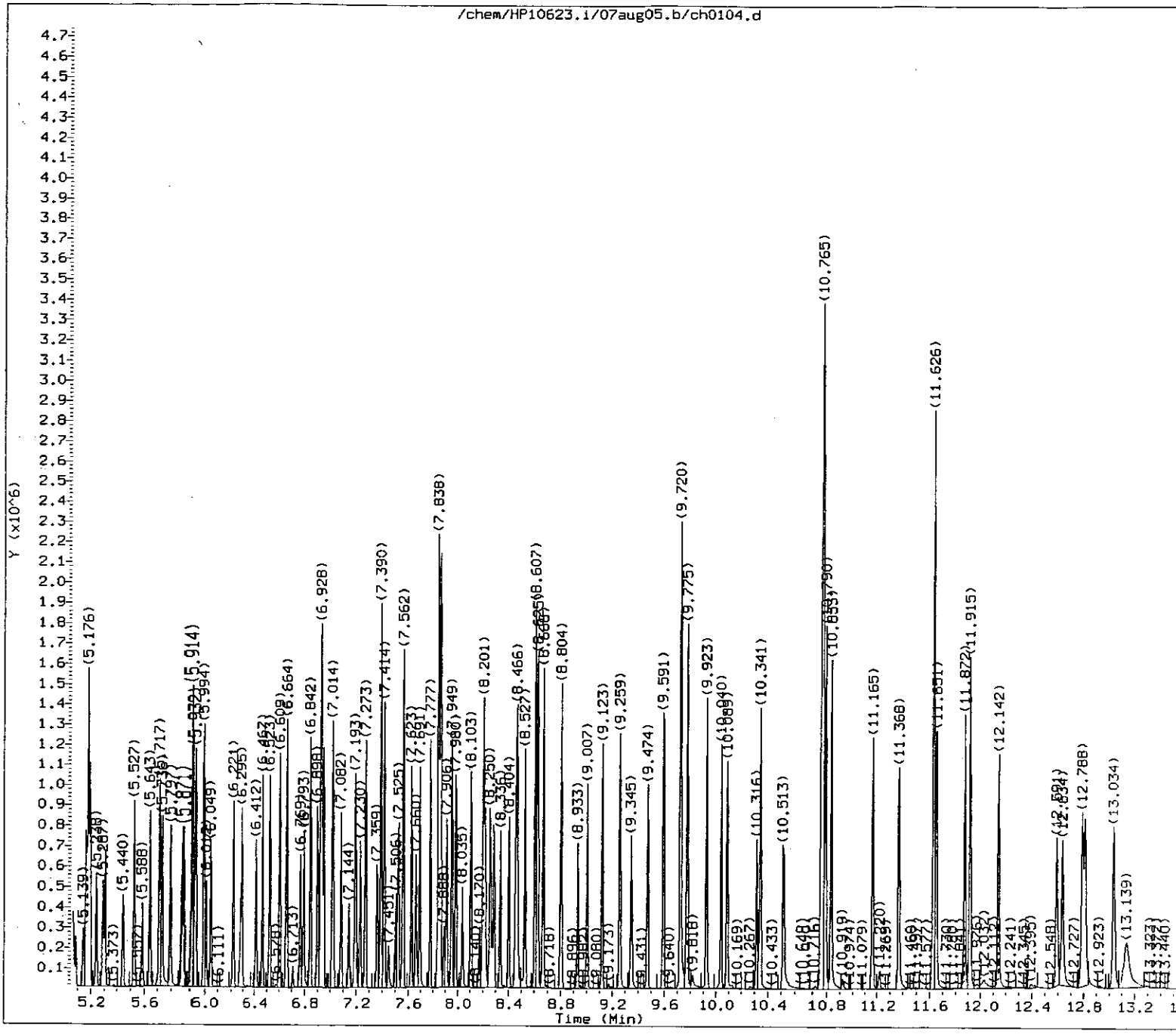
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

mac 8300 8/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

8/15/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.721	88	41074	28.8842
2)	N-Nitrosodimethylamine	(1)	2.046	74	63318	26.8116
3)	Pyridine	(1)	2.077	79	130367	30.5807
5)	2-Picoline	(1)	2.895	93	130102	29.8952
15)	Phenol	(1)	4.469	94	170298	29.9279
16)	Aniline	(1)	4.475	93	198672	29.7919
18)	bis(2-Chloroethyl)ether	(1)	4.561	93	121468	30.0513
19)	2-Chlorophenol	(1)	4.580	128	110054	29.6317
20)	1,3-Dichlorobenzene	(1)	4.727	146	114771	29.9807
21)	1,4-Dichlorobenzene-d4	(1)	4.783	152	95929	40.0000
22)	1,4-Dichlorobenzene	(1)	4.801	146	120622	30.4990
23)	Benzyl alcohol	(1)	4.924	108	80882	30.3244
24)	1,2-Dichlorobenzene	(1)	4.930	146	113188	30.1489
25)	2-Methylphenol	(1)	5.035	108	116789	29.9763
26)	2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	211590	30.6115
27)	bis(2-Chloroisopropyl)ether	(1)	5.065	45	211590	30.6115
29)	Acetophenone	(1)	5.158	105	173412	30.0936
30)	N-Nitroso-di-n-propylamine	(1)	5.176	70	101717	30.5421
31)	4-Methylphenol	(1)	5.176	108	129956	30.0282
33)	o-Toluidine	(1)	5.188	106	201668	30.5358
34)	Hexachloroethane	(1)	5.238	117	44360	30.1117
36)	Nitrobenzene	(2)	5.305	77	141666	29.9245
38)	Isophorone	(2)	5.527	82	272149	30.0454
39)	2-Nitrophenol	(2)	5.588	139	49226	29.5181
40)	2,4-Dimethylphenol	(2)	5.643	107	129221	29.6920
42)	bis(2-Chloroethoxy)methane	(2)	5.736	93	156409	30.3581
43)	Benzoic acid	(2)	5.729	105	96703	36.8088
44)	2,4-Dichlorophenol	(2)	5.797	162	101562	29.7877
45)	1,2,4-Trichlorobenzene	(2)	5.871	180	101674	30.4002
46)	Naphthalene-d8	(2)	5.914	136	428695	40.0000
47)	Naphthalene	(2)	5.932	128	358457	30.4225
48)	4-Chloroaniline	(2)	5.994	127	150963	30.4433
49)	2,6-Dichlorophenol	(2)	5.994	162	98257	30.2477
51)	Hexachlorobutadiene	(2)	6.049	225	56750	30.2465
52)	Quinoline	(2)	6.221	129	244118	30.3595
53)	Caprolactam	(2)	6.283	113	41391	28.6389
55)	4-Chloro-3-methylphenol	(2)	6.412	107	113859	29.2648
58)	2-Methylnaphthalene	(2)	6.523	142	241903	30.5432
60)	1-Methylnaphthalene	(2)	6.609	142	239606	30.5289
61)	Hexachlorocyclopentadiene	(3)	6.664	237	58202	28.6509
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	102193	30.1684
64)	2,4,6-Trichlorophenol	(3)	6.769	196	71239	29.5401
65)	2,4,5-Trichlorophenol	(3)	6.793	196	85868	30.0729

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.922	154	306333	30.5466
69) Diphenyl	(3)	6.922	154	306333	30.5466
70) 1,1'-Biphenyl	(3)	6.922	154	306333	30.5466
71) 2-Chloronaphthalene	(3)	6.928	162	306040M	30.7609
72) 1-Chloronaphthalene	(3)	6.947	162	231955M	28.9645
73) Diphenyl ether	(3)	7.014	170	171662	30.1031
74) 2-Nitroaniline	(3)	7.021	138	71484	29.1010
77) Dimethylphthalate	(3)	7.193	163	290257	30.5172
79) 2,6-Dinitrotoluene	(3)	7.230	165	61729	29.6098
80) Acenaphthylene	(3)	7.273	152	394504	30.3964
81) 3-Nitroaniline	(3)	7.359	138	66312	28.8960
82) Acenaphthene-d10	(3)	7.390	164	284069	40.0000
83) Acenaphthene	(3)	7.414	153	243081	30.2193
84) 2,4-Dinitrophenol	(3)	7.451	184	22138	32.2729
85) Pentachlorobenzene	(3)	7.525	250	100133	30.5433
86) 4-Nitrophenol	(3)	7.506	109	44805M	28.0214
87) Dibenzofuran	(3)	7.562	168	363357	31.1311
88) 2,4-Dinitrotoluene	(3)	7.562	165	78961	29.3571
90) 1-Naphthylamine	(3)	7.623	143	259070	30.7710
91) 2,3,4,6-Tetrachlorophenol	(3)	7.660	232	58962	28.8850
92) 2-Naphthylamine	(3)	7.691	143	263680	30.6698
93) Diethylphthalate	(3)	7.777	149	289689	29.9547
94) Fluorene	(3)	7.838	166	294675	30.7293
96) 4-Chlorophenyl-phenylether	(3)	7.857	204	138070	31.2638
98) 4-Nitroaniline	(3)	7.863	138	73544	29.4036
99) 4,6-Dinitro-2-methylphenol	(4)	7.888	198	31190	26.5633
102) N-Nitrosodiphenylamine	(4)	7.949	169	222095	30.6929
103) 1,2-Diphenylhydrazine	(4)	7.980	77	332753	29.9522
108) Phorate	(4)	8.201	75	192866	29.7212
110) 4-Bromophenyl-phenylether	(4)	8.257	248	81249	30.6604
112) Hexachlorobenzene	(4)	8.287	284	86409	30.4816
116) Pentachlorophenol	(4)	8.453	266	69824	38.1766
120) Phenanthrene-d10	(4)	8.607	188	518684	40.0000
121) Phenanthrene	(4)	8.625	178	433857	30.5361
122) Dinoseb	(4)	8.619	211	39405	24.2489
124) Anthracene	(4)	8.668	178	449560	30.3041
125) Carbazole	(4)	8.804	167	425089	30.3102
126) Methyl parathion	(4)	8.933	109	77247	29.2290
127) Ronnel	(4)	9.007	285	111186	30.8474
128) Di-n-butylphthalate	(4)	9.123	149	493870	30.0007
129) Parathion	(4)	9.259	109	52927	28.7957
134) Fluoranthene	(4)	9.597	202	487451	30.2829
135) Benzidine	(5)	9.720	184	797341	86.8356

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

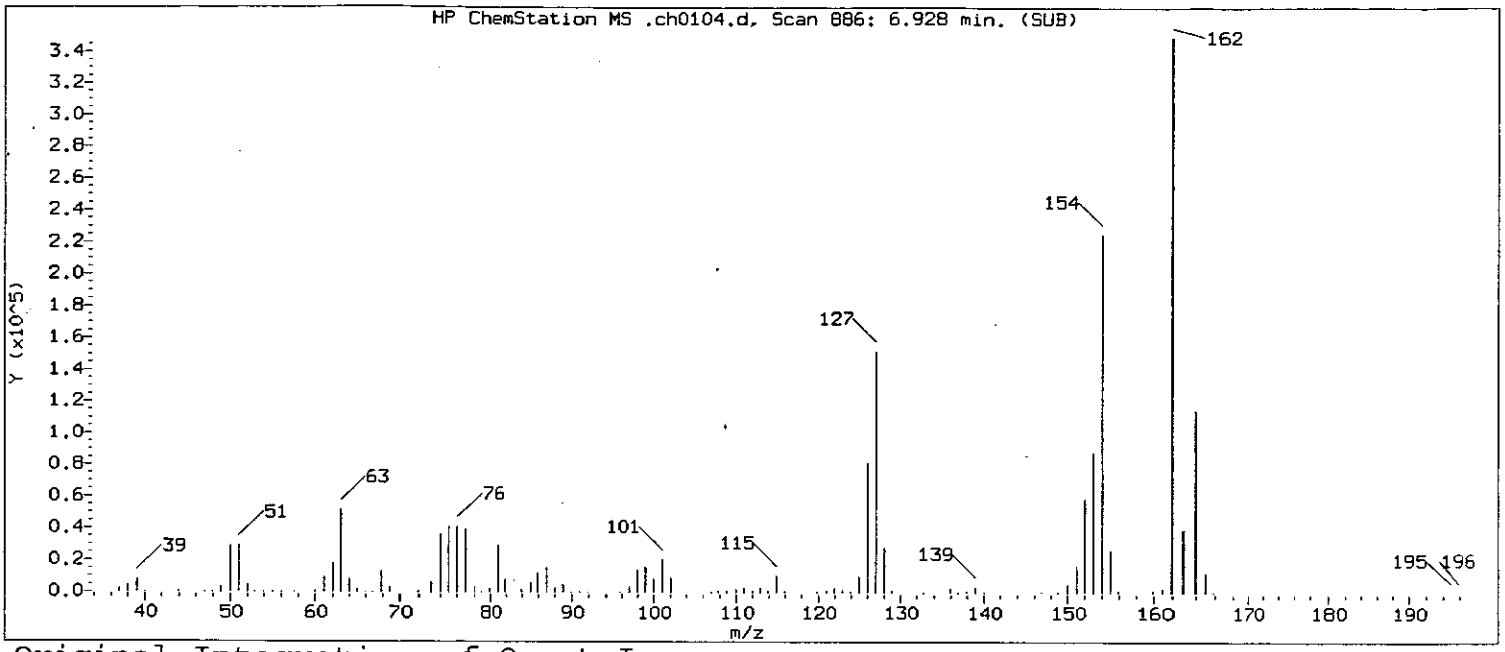
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

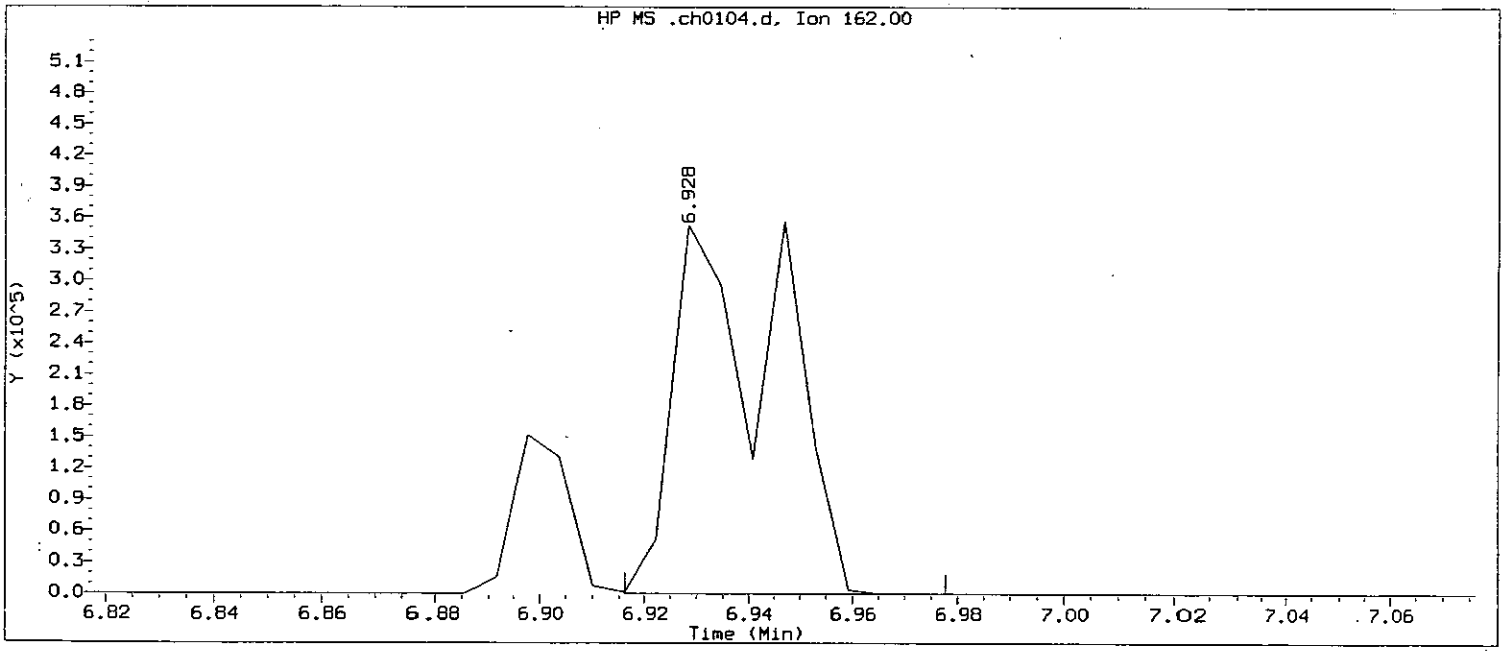
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.775	202	506520	29.8498
143)	Butylbenzylphthalate	(5)	10.341	149	226407	29.0592
145)	3,3'-Dichlorobenzidine	(5)	10.753	252	174778	29.5611
146)	Benzo(a)anthracene	(5)	10.759	228	457116	30.1601
147)	Hexabromobenzene	(5)	10.771	552	12539	26.9790
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	86209	29.3587
149)	Chrysene-d12	(5)	10.771	240	530394	40.0000
150)	Chrysene	(5)	10.790	228	442737	29.4963
151)	bis(2-Ethylhexyl)phthalate	(5)	10.833	149	310374	28.7414
152)	6-Methylchrysene	(5)	11.165	242	321195	29.0869
156)	Di-n-octylphthalate	(6)	11.368	149	494205	29.0184
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.626	256	223803	29.9652
158)	Benzo(b)fluoranthene	(6)	11.626	252	485403	32.0457
159)	Benzo(k)fluoranthene	(6)	11.651	252	473864	28.9057
160)	Benzo(a)pyrene	(6)	11.872	252	436350	29.8069
161)	Perylene-d12	(6)	11.915	264	433846	40.0000
162)	3-Methylcholanthrene	(6)	12.142	268	243641	29.6230
166)	Dibenz(a,h)acridine	(6)	12.591	279	323176	28.2363
167)	Dibenz(a,j)acridine	(6)	12.634	279	367980	29.6308
168)	Indeno(1,2,3-cd)pyrene	(6)	12.788	276	494692	29.5119
169)	Dibenz(a,h)anthracene	(6)	12.813	278	388990	29.2507
170)	Benzo(g,h,i)perylene	(6)	13.034	276	414198	29.7663
9)	2-Fluorophenol	(1)	3.522	112	104570	29.6924
13)	Phenol-d5	(1)	4.457	99	140637	29.4408
14)	Phenol-d6	(1)	4.457	99	140637	29.4408
35)	Nitrobenzene-d5	(2)	5.287	82	126503	29.3446
66)	2-Fluorobiphenyl	(3)	6.842	172	274583	30.5277
104)	2,4,6-Tribromophenol	(3)	8.035	330	37794	28.7615
138)	Terphenyl-d14	(5)	9.923	244	336655	30.0217

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:48
Date, time and analyst ID of latest file update: 05-Aug-2007 07:48 Automation

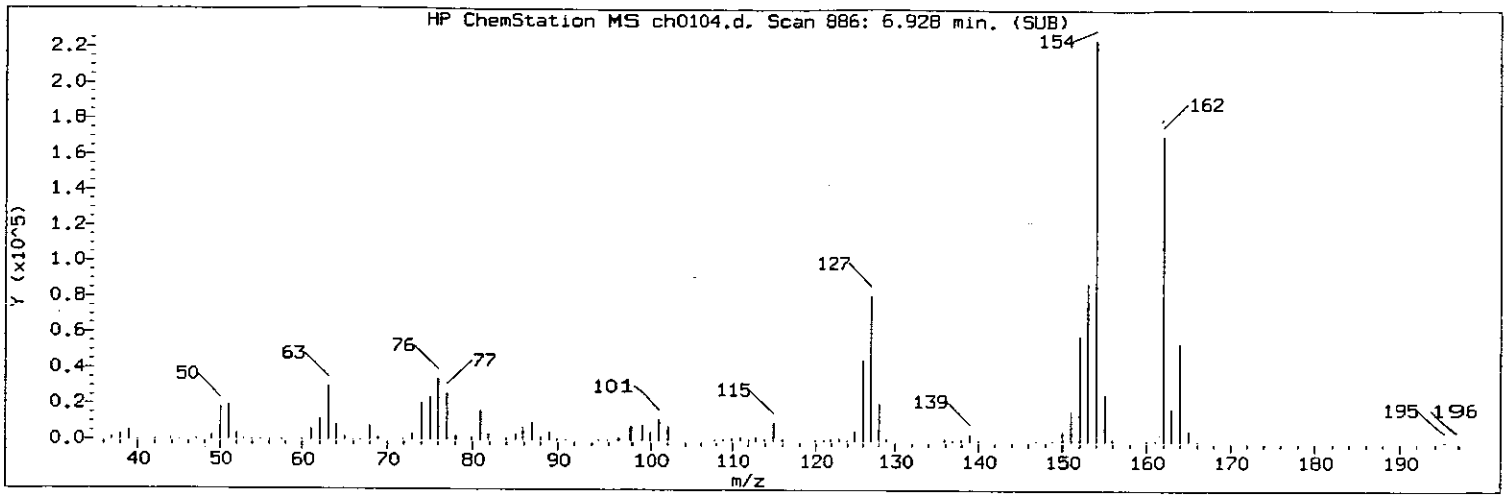
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 490748
Concentration (ng/ul) : 42.7174
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 295 Y at integration end: 0

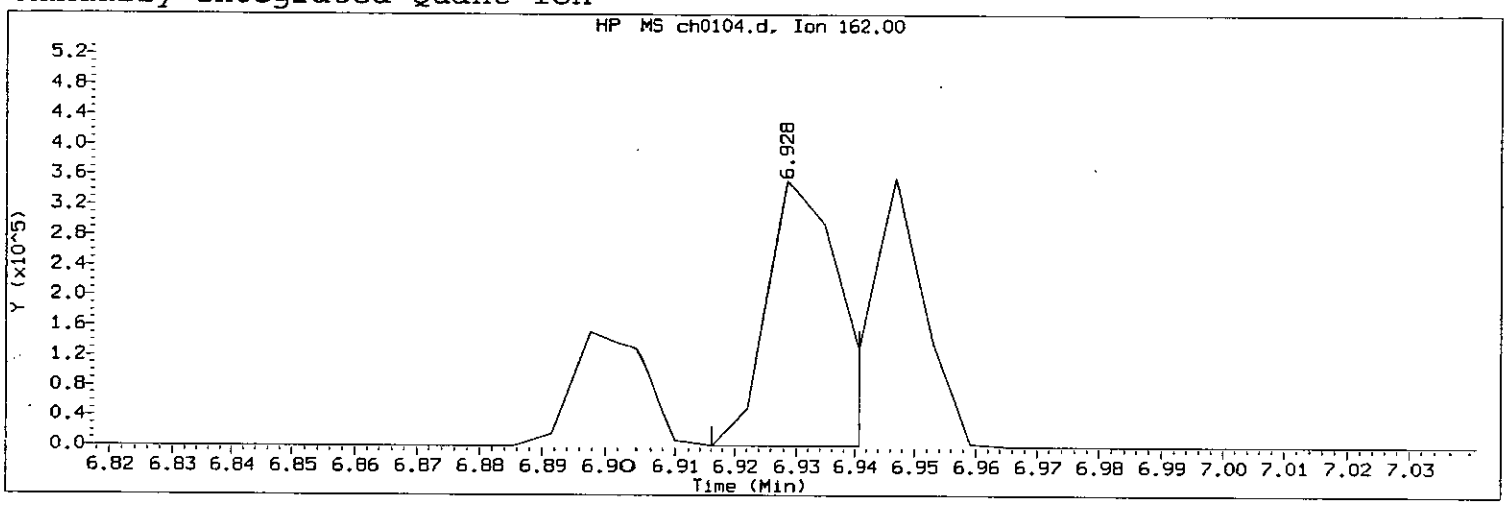
mc③ 8/5/07
0385

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0104.d, generated on 08/05/2007 at 07:58

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

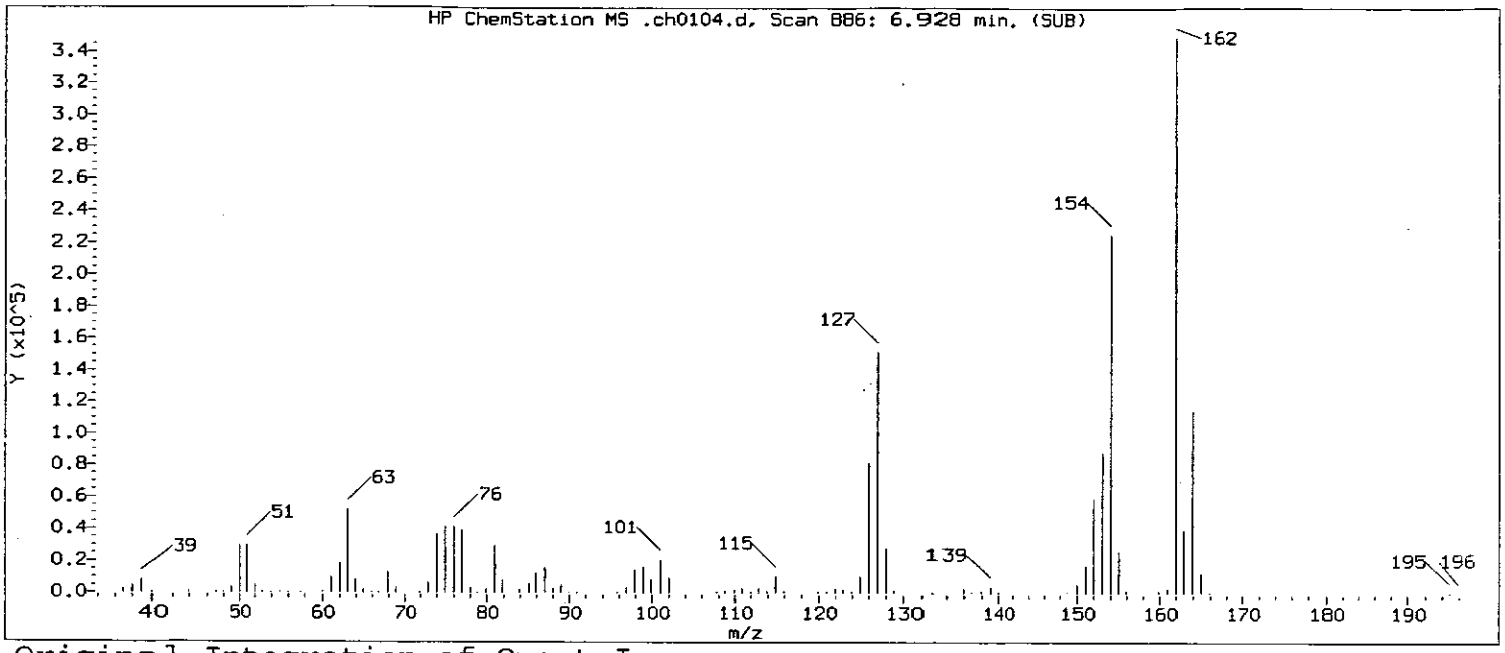
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area (flag) : 306040 M
Concentration (ng/ul) : 30.7609
Integration start scan : 883 Integration stop scan: 887
Y at integration start : 538 Y at integration end: 538

Reason for manual integration (circle one): missed peak ~~improper integratio~~

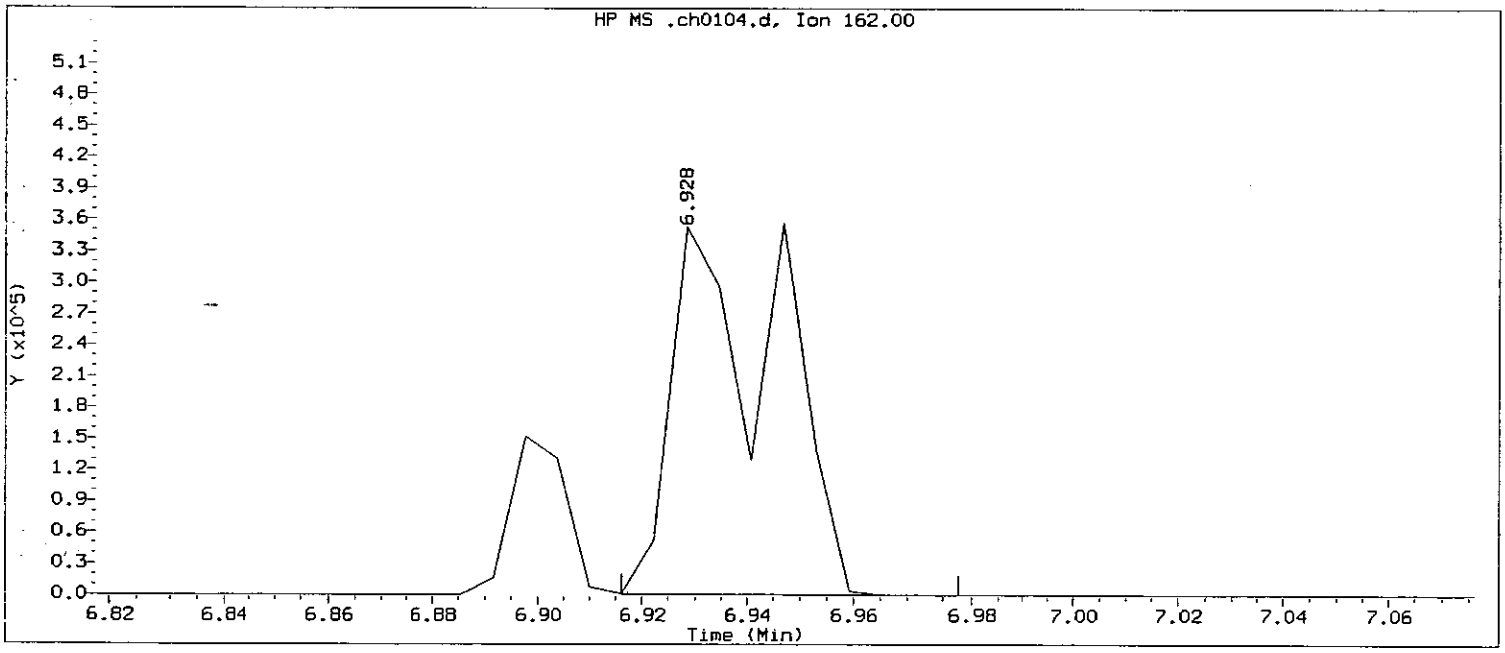
Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:48
Date, time and analyst ID of latest file update: 05-Aug-2007 07:48 Automation

Sample Name: SSTD030 Lab Sample ID: STD2057

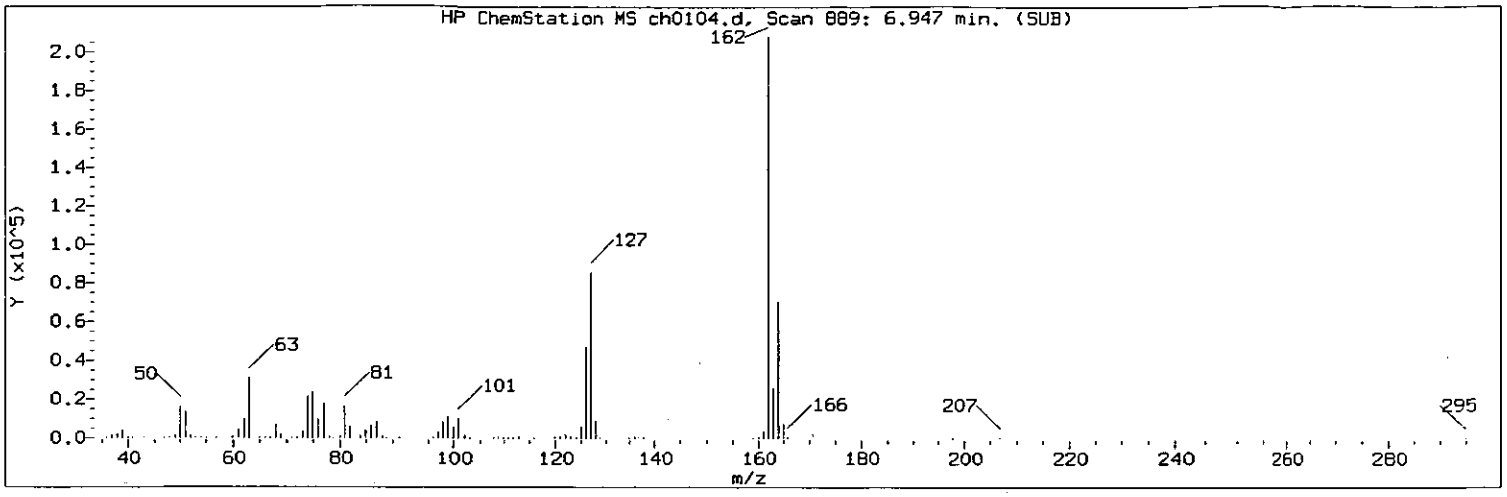
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 490595
Concentration (ng/ul) : 48.2698
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 378 Y at integration end: 0

mac (13) 8/5/07

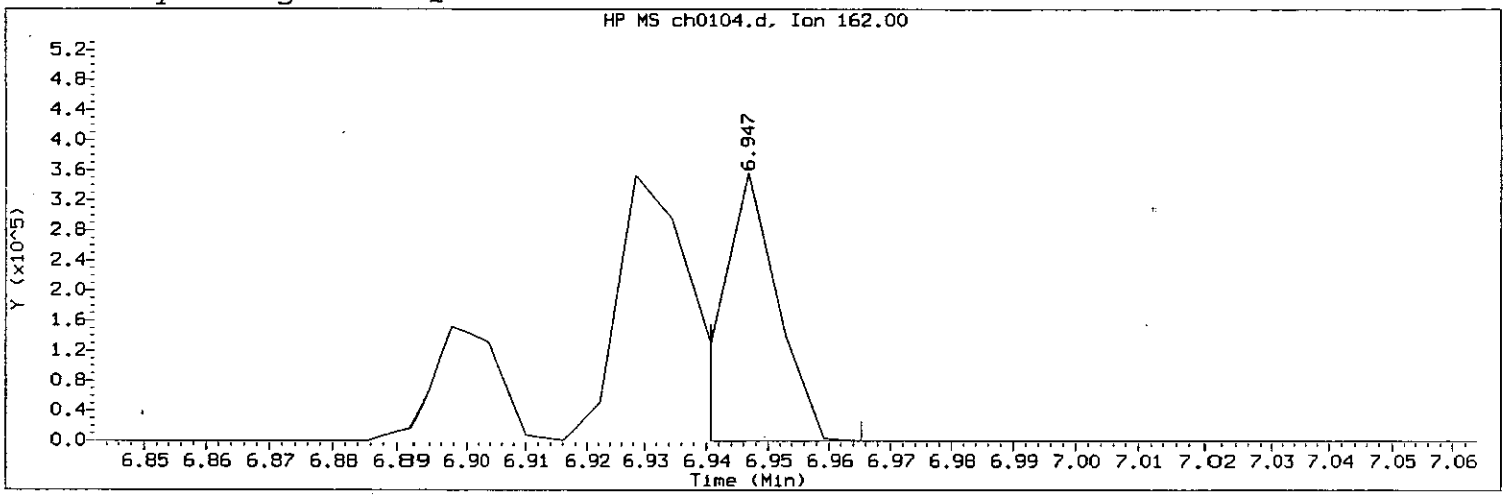
0387

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0104.d, generated on 08/05/2007 at 07:58

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2057

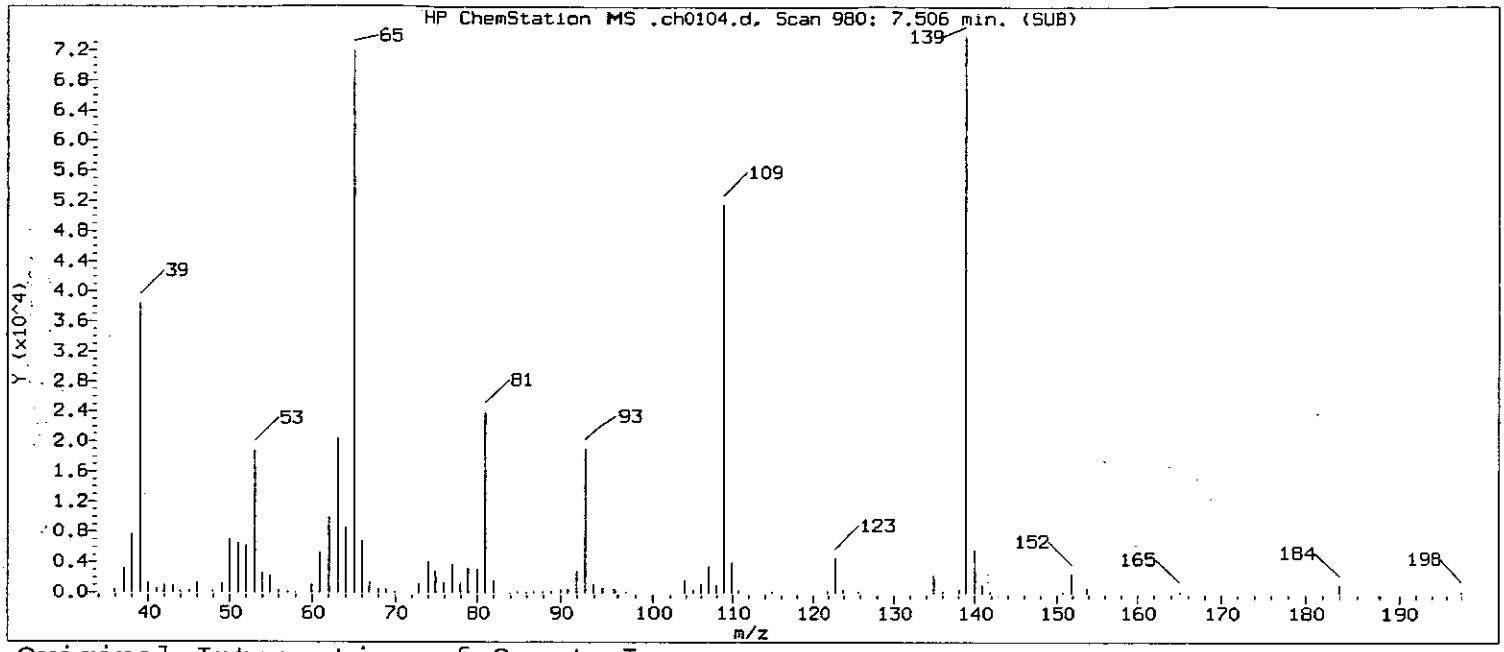
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 889
Retention Time (minutes): 6.947
Quant Ion : 162
Area (flag) : 231955 M
Concentration (ng/ul) : 28.9645
Integration start scan : 887 Integration stop scan: 891
Y at integration start : 134 Y at integration end: 134

Reason for manual integration (circle one): missed peak (improper integratio

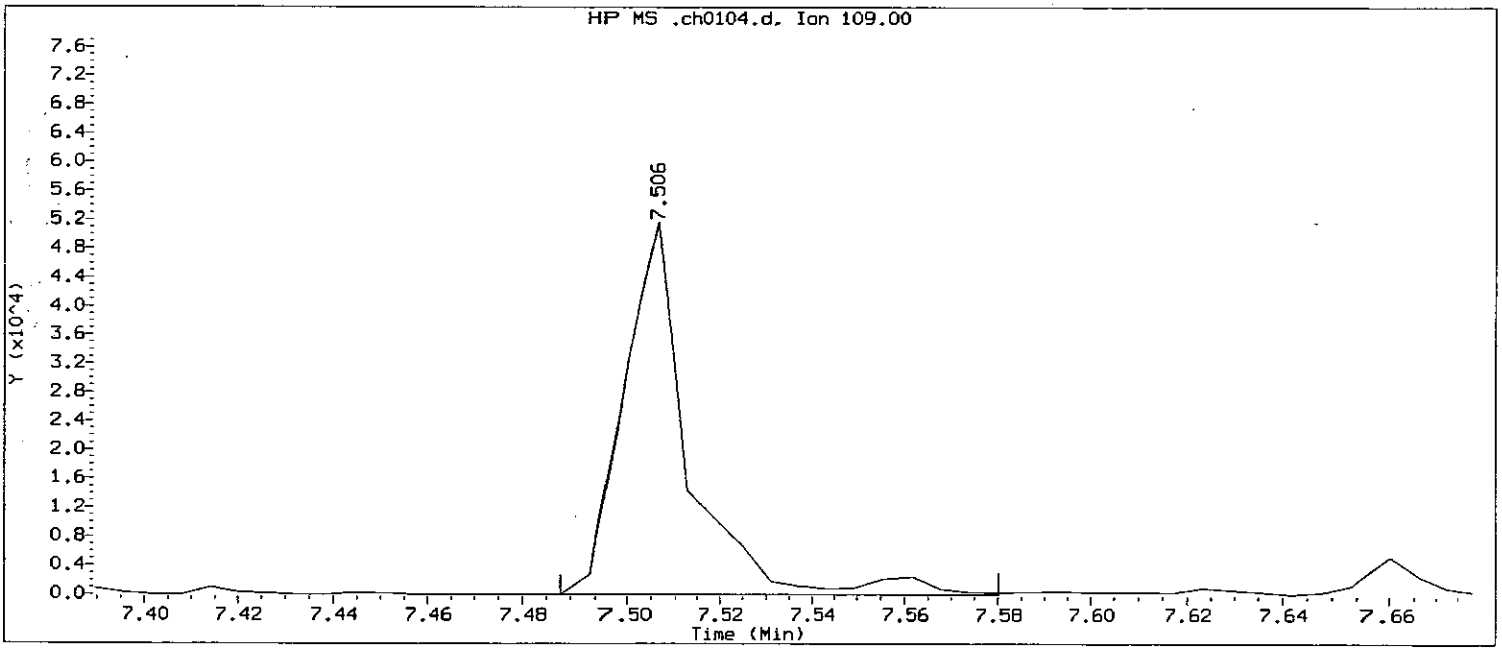
Analyst responsible for change: mc 8/6/07

GC/MS audit/management approval: 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:48
Date, time and analyst ID of latest file update: 05-Aug-2007 07:48 Automation

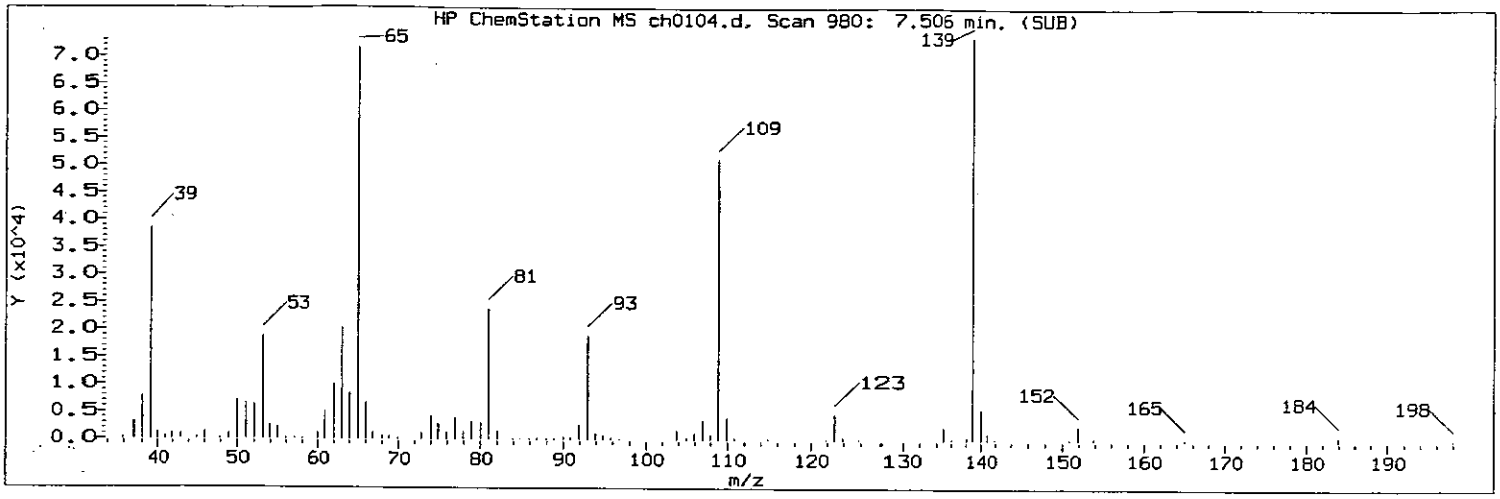
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 980
Retention Time (minutes): 7.506
Quant Ion : 109
Area : 47563
Concentration (ng/ul) : 29.3249
Integration start scan : 976 Integration stop scan: 991
Y at integration start : 0 Y at integration end: 0

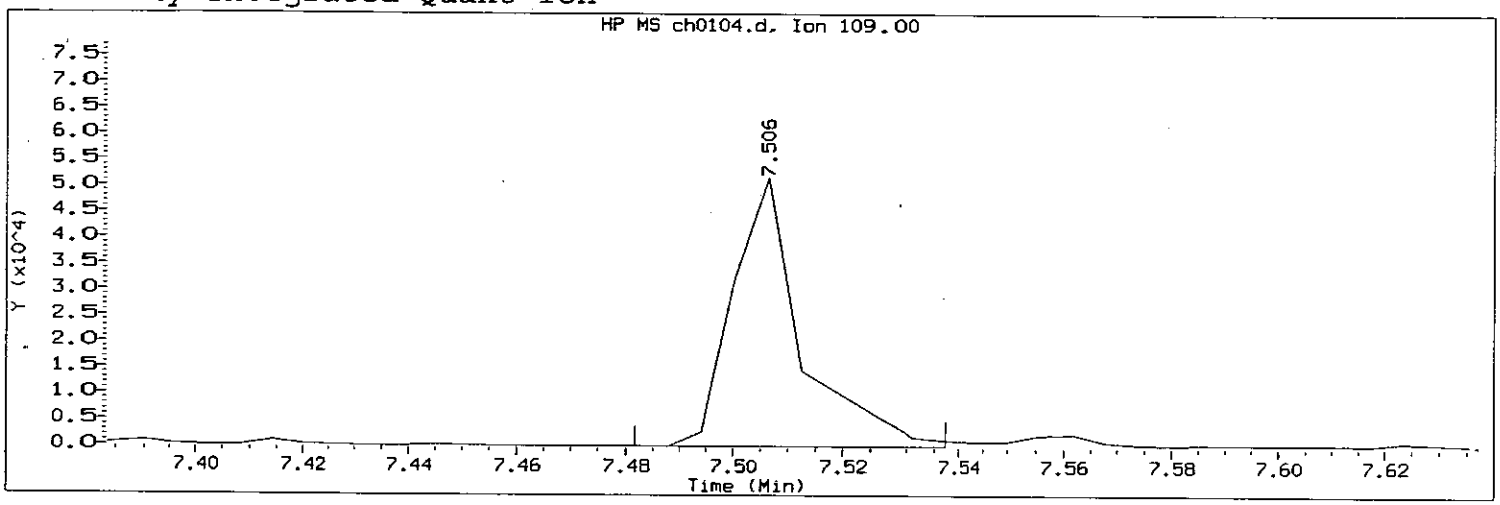
mc(13) 8/5/07
0389

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0104.d, generated on 08/05/2007 at 07:58

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0104 .d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:34 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 07:57
Date, time and analyst ID of latest file update: 05-Aug-2007 07:58 mac00013

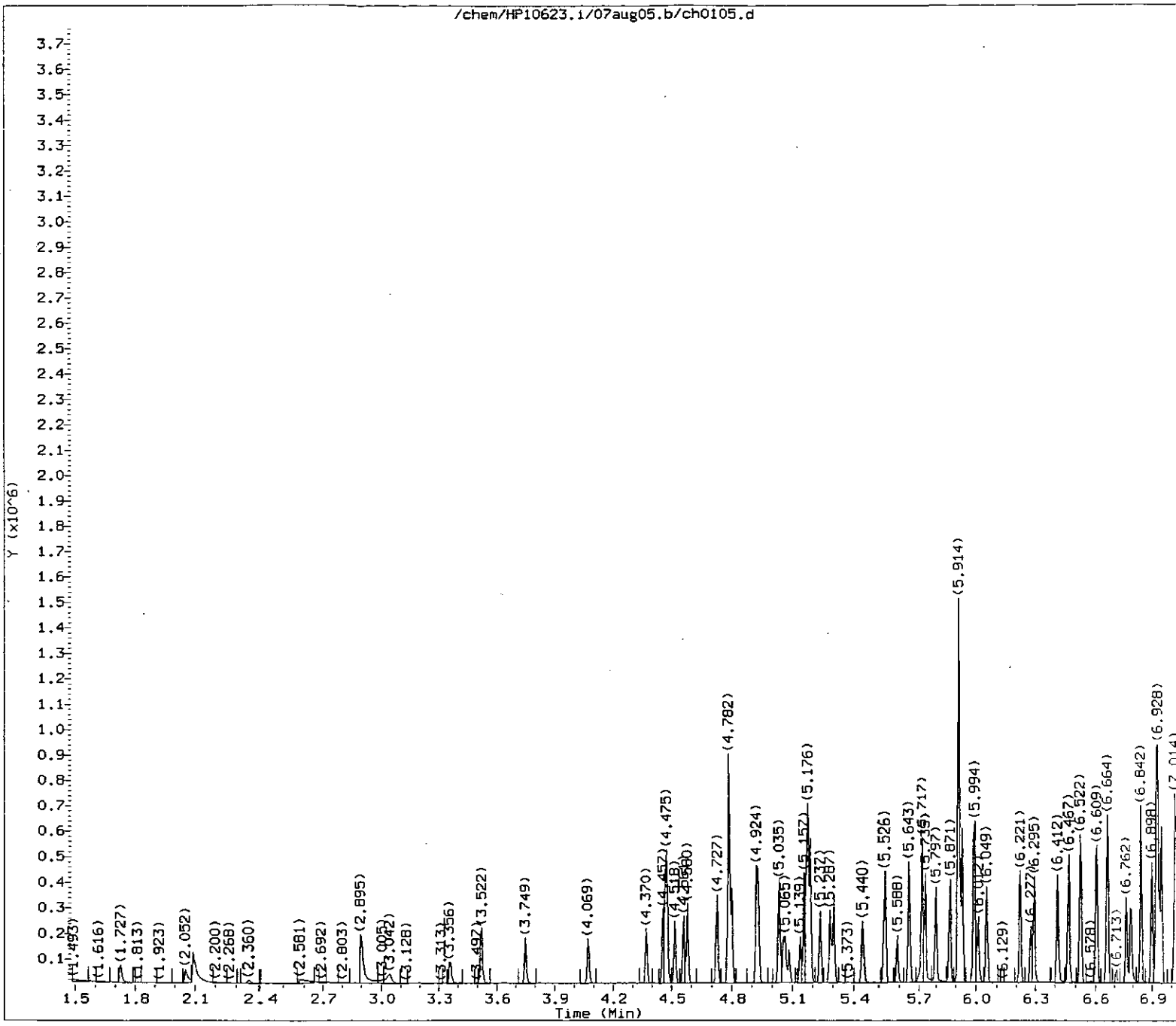
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 980
Retention Time (minutes): 7.506
Quant Ion : 109
Area (flag) : 44805 M
Concentration (ng/ul) : 28.0214
Integration start scan : 975 Integration stop scan: 984
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integratic

Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 8316 8/6/07



Quant Report

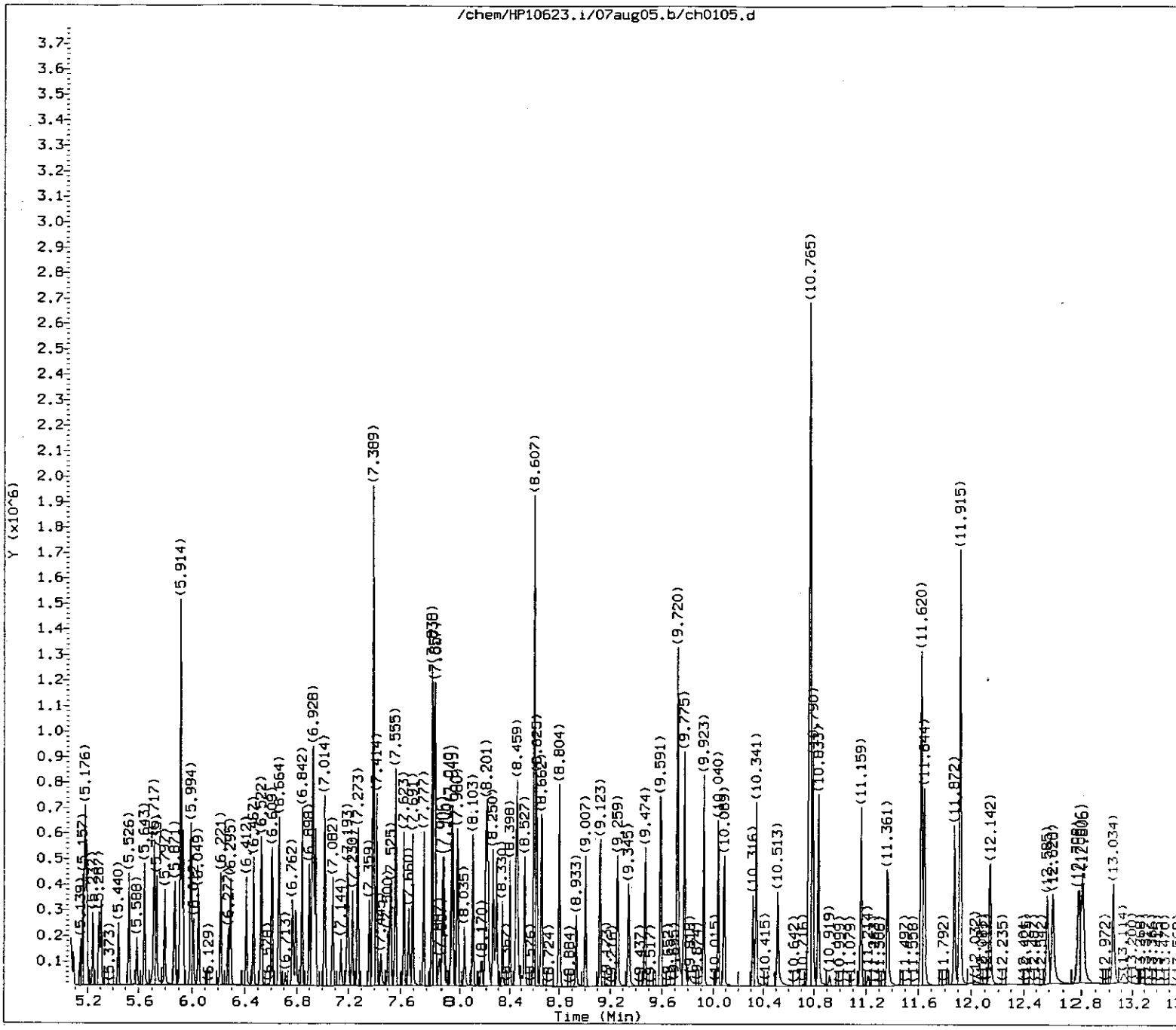
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

mac 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

0312
mc (3) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.727	88	22632	15.3163
2)	N-Nitrosodimethylamine	(1)	2.052	74	31743	13.3595
3)	Pyridine	(1)	2.089	79	57762	13.4476
5)	2-Picoline	(1)	2.895	93	62825	14.1615
15)	Phenol	(1)	4.469	94	86680	14.7891
16)	Aniline	(1)	4.475	93	103114	14.9674
18)	bis(2-Chloroethyl)ether	(1)	4.561	93	62813	15.0274
19)	2-Chlorophenol	(1)	4.580	128	55835	14.6331
20)	1,3-Dichlorobenzene	(1)	4.727	146	58573	14.8417
21)	1,4-Dichlorobenzene-d4	(1)	4.782	152	99156	40.0000
22)	1,4-Dichlorobenzene	(1)	4.801	146	62647	15.2586
23)	Benzyl alcohol	(1)	4.924	108	41547	15.0559
24)	1,2-Dichlorobenzene	(1)	4.930	146	59707	15.3073
25)	2-Methylphenol	(1)	5.035	108	57701	14.4577
26)	2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	105598	14.8235
27)	bis(2-Chloroisopropyl)ether	(1)	5.065	45	105598	14.8235
29)	Acetophenone	(1)	5.157	105	86323	14.5915
30)	N-Nitroso-di-n-propylamine	(1)	5.176	70	51560	14.9823
31)	4-Methylphenol	(1)	5.176	108	67097	14.9993
33)	o-Toluidine	(1)	5.188	106	103051	15.0765
34)	Hexachloroethane	(1)	5.237	117	21735	14.4132
36)	Nitrobenzene	(2)	5.305	77	69322	14.2717
38)	Isophorone	(2)	5.526	82	137560	14.6977
39)	2-Nitrophenol	(2)	5.588	139	21831	13.0215
40)	2,4-Dimethylphenol	(2)	5.643	107	66182	14.7136
42)	bis(2-Chloroethoxy)methane	(2)	5.735	93	84588	15.6409
43)	Benzoic acid	(2)	5.723	105	60708M	23.4637
44)	2,4-Dichlorophenol	(2)	5.797	162	50989	14.5168
45)	1,2,4-Trichlorobenzene	(2)	5.871	180	52165	15.0155
46)	Naphthalene-d8	(2)	5.914	136	445189	40.0000
47)	Naphthalene	(2)	5.932	128	182144	14.9086
48)	4-Chloroaniline	(2)	5.988	127	77447	15.0315
49)	2,6-Dichlorophenol	(2)	5.994	162	49938	14.8424
51)	Hexachlorobutadiene	(2)	6.049	225	30034	15.3297
52)	Quinoline	(2)	6.221	129	123860	14.8661
53)	Caprolactam	(2)	6.277	113	21056	14.2131
55)	4-Chloro-3-methylphenol	(2)	6.412	107	58055	14.4908
58)	2-Methylnaphthalene	(2)	6.522	142	123631	15.0252
60)	1-Methylnaphthalene	(2)	6.609	142	123680	15.1393
61)	Hexachlorocyclopentadiene	(3)	6.658	237	27877	13.3813
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	53359	14.9651
64)	2,4,6-Trichlorophenol	(3)	6.762	196	36296	14.4268
65)	2,4,5-Trichlorophenol	(3)	6.793	196	41395	13.9956

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.922	154	156739	14.8718
69) Diphenyl	(3)	6.922	154	156739	14.8718
70) 1,1'-Biphenyl	(3)	6.922	154	156739	14.8718
71) 2-Chloronaphthalene	(3)	6.928	162	165706M	15.6444
72) 1-Chloronaphthalene	(3)	6.947	162	120404M	14.4148
73) Diphenyl ether	(3)	7.014	170	89868	14.9707
74) 2-Nitroaniline	(3)	7.021	138	32455	12.9695
77) Dimethylphthalate	(3)	7.193	163	151558	15.1036
79) 2,6-Dinitrotoluene	(3)	7.230	165	30103	13.9502
80) Acenaphthylene	(3)	7.273	152	201369	14.7846
81) 3-Nitroaniline	(3)	7.359	138	33479	14.0672
82) Acenaphthene-d10	(3)	7.389	164	299181	40.0000
83) Acenaphthene	(3)	7.414	153	125338	14.8353
84) 2,4-Dinitrophenol	(3)	7.451	184	15487	22.7346
85) Pentachlorobenzene	(3)	7.525	250	51572	14.9490
86) 4-Nitrophenol	(3)	7.500	109	21451	13.1341
87) Dibenzofuran	(3)	7.562	168	187897	15.2273
88) 2,4-Dinitrotoluene	(3)	7.555	165	37272	13.4889
90) 1-Naphthylamine	(3)	7.623	143	137450	15.3981
91) 2,3,4,6-Tetrachlorophenol	(3)	7.660	232	27939	13.3526
92) 2-Naphthylamine	(3)	7.691	143	139317	15.3073
93) Diethylphthalate	(3)	7.777	149	148833	14.6883
94) Fluorene	(3)	7.838	166	153158	15.1316
96) 4-Chlorophenyl-phenylether	(3)	7.857	204	71510	15.2980
98) 4-Nitroaniline	(3)	7.857	138	35957	13.9000
99) 4,6-Dinitro-2-methylphenol	(4)	7.887	198	12984	11.0980
102) N-Nitrosodiphenylamine	(4)	7.949	169	112448	14.7138
103) 1,2-Diphenylhydrazine	(4)	7.980	77	175754	14.9263
108) Phorate	(4)	8.201	75	97074	14.2686
110) 4-Bromophenyl-phenylether	(4)	8.250	248	41404	14.7779
112) Hexachlorobenzene	(4)	8.281	284	46114	15.2622
116) Pentachlorophenol	(4)	8.447	266	48939	26.0457
120) Phenanthrene-d10	(4)	8.607	188	550422	40.0000
121) Phenanthrene	(4)	8.625	178	227844	15.0892
122) Dinoseb	(4)	8.613	211	15655	9.8565
124) Anthracene	(4)	8.668	178	231117	14.7436
125) Carbazole	(4)	8.804	167	220253	14.8389
126) Methyl parathion	(4)	8.933	109	34627	12.7996
127) Ronnel	(4)	9.007	285	57812	15.0914
128) Di-n-butylphthalate	(4)	9.123	149	248168	14.3580
129) Parathion	(4)	9.252	109	23401	12.4979
134) Fluoranthene	(4)	9.591	202	248909	14.6555
135) Benzidine	(5)	9.720	184	411818	42.6628

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

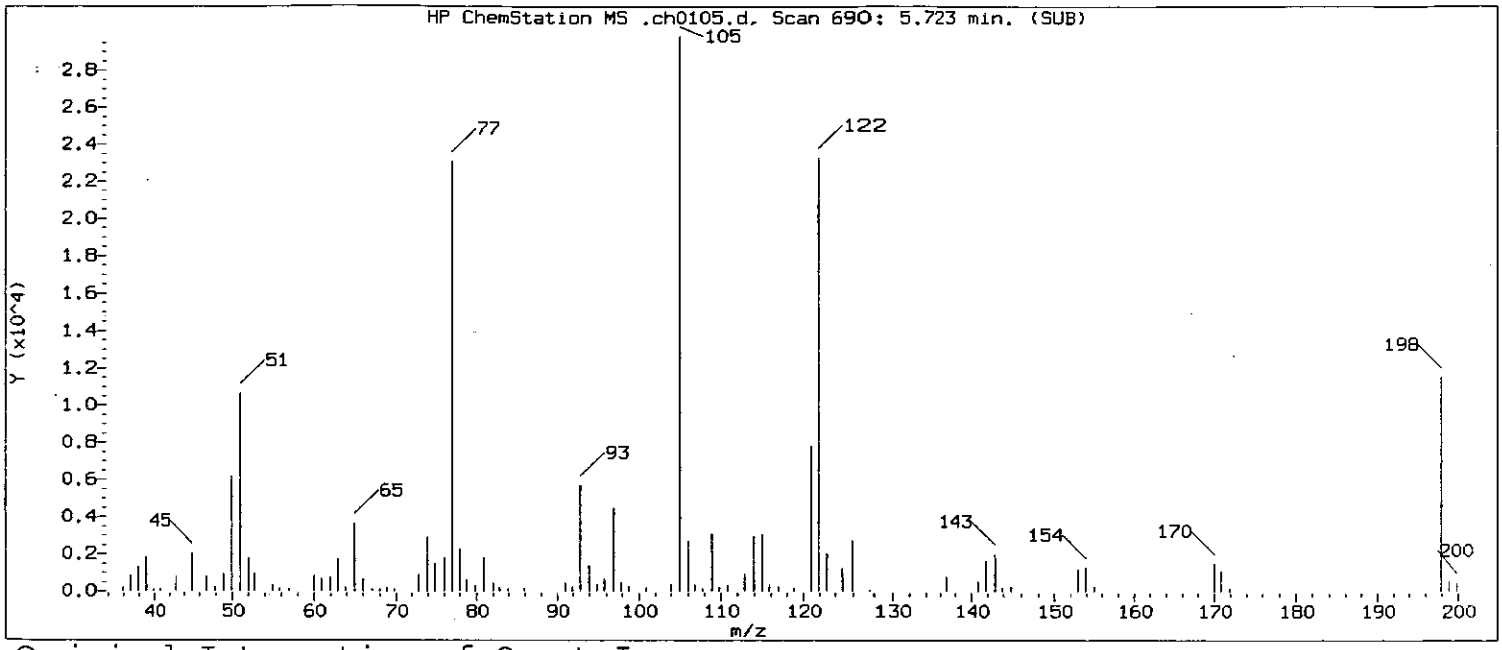
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

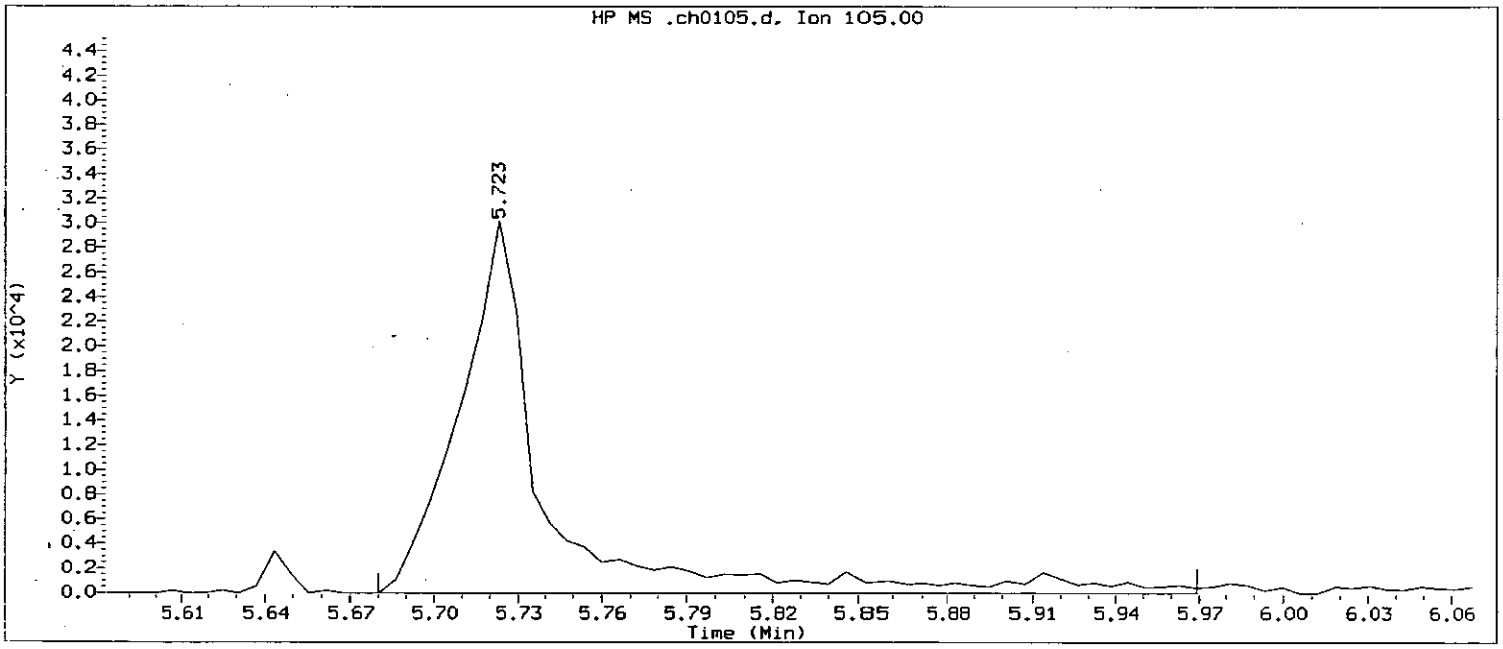
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.775	202	259740	14.4948
143)	Butylbenzylphthalate	(5)	10.341	149	111988	13.7734
145)	3,3'-Dichlorobenzidine	(5)	10.753	252	83677	13.6001
146)	Benzo(a)anthracene	(5)	10.759	228	238852	14.8385
147)	Hexabromobenzene	(5)	10.771	552	6276	13.0851
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.759	231	41512	13.5878
149)	Chrysene-d12	(5)	10.765	240	564822	40.0000
150)	Chrysene	(5)	10.790	228	229896	14.5020
151)	bis(2-Ethylhexyl)phthalate	(5)	10.833	149	153733	13.6656
152)	6-Methylchrysene	(5)	11.159	242	159271	13.8123
156)	Di-n-octylphthalate	(6)	11.361	149	226636	13.3258
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.620	256	109769	14.4493
158)	Benzo(b)fluoranthene	(6)	11.620	252	218672	14.2417
159)	Benzo(k)fluoranthene	(6)	11.644	252	261349	15.4218
160)	Benzo(a)pyrene	(6)	11.872	252	219713	14.6955
161)	Perylene-d12	(6)	11.915	264	445337	40.0000
162)	3-Methylcholanthrene	(6)	12.142	268	112843	13.6637
166)	Dibenz(a,h)acridine	(6)	12.585	279	155076	13.5242
167)	Dibenz(a,j)acridine	(6)	12.628	279	178996	14.2231
168)	Indeno(1,2,3-cd)pyrene	(6)	12.788	276	244113	14.3427
169)	Dibenz(a,h)anthracene	(6)	12.806	278	195138	14.4307
170)	Benzo(g,h,i)perylene	(6)	13.034	276	201094	14.2538
9)	2-Fluorophenol	(1)	3.522	112	51253	14.2545
13)	Phenol-d5	(1)	4.457	99	73755	14.9498
14)	Phenol-d6	(1)	4.457	99	73755	14.9498
35)	Nitrobenzene-d5	(2)	5.287	82	64441	14.5116
66)	2-Fluorobiphenyl	(3)	6.842	172	141287	14.9316
104)	2,4,6-Tribromophenol	(3)	8.035	330	18712	13.7927
138)	Terphenyl-d14	(5)	9.923	244	174270	14.6730

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:09
Date, time and analyst ID of latest file update: 05-Aug-2007 08:09 Automation

Sample Name: SSTD015 Lab Sample ID: STD2057

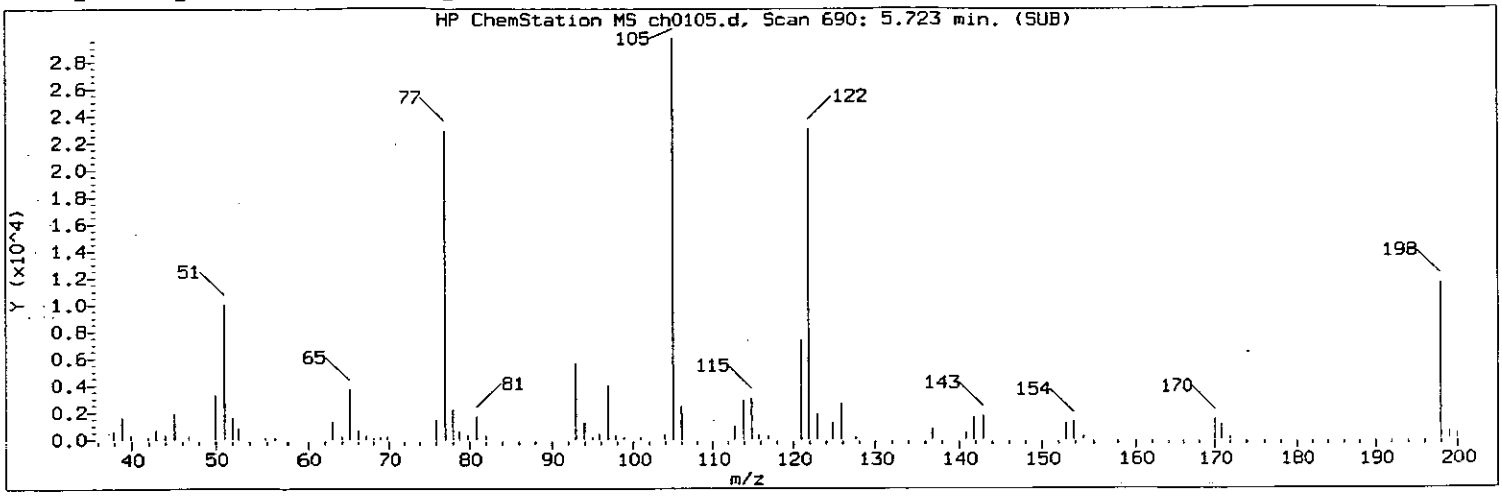
Compound Number : 43
Compound Name : Benzoic acid
Scan Number : 690
Retention Time (minutes): 5.723
Quant Ion : 105
Area : 65369
Concentration (ng/ul) : 24.9655
Integration start scan : 682 Integration stop scan: 729
Y at integration start : 0 Y at integration end: 0

mc 8/5/07

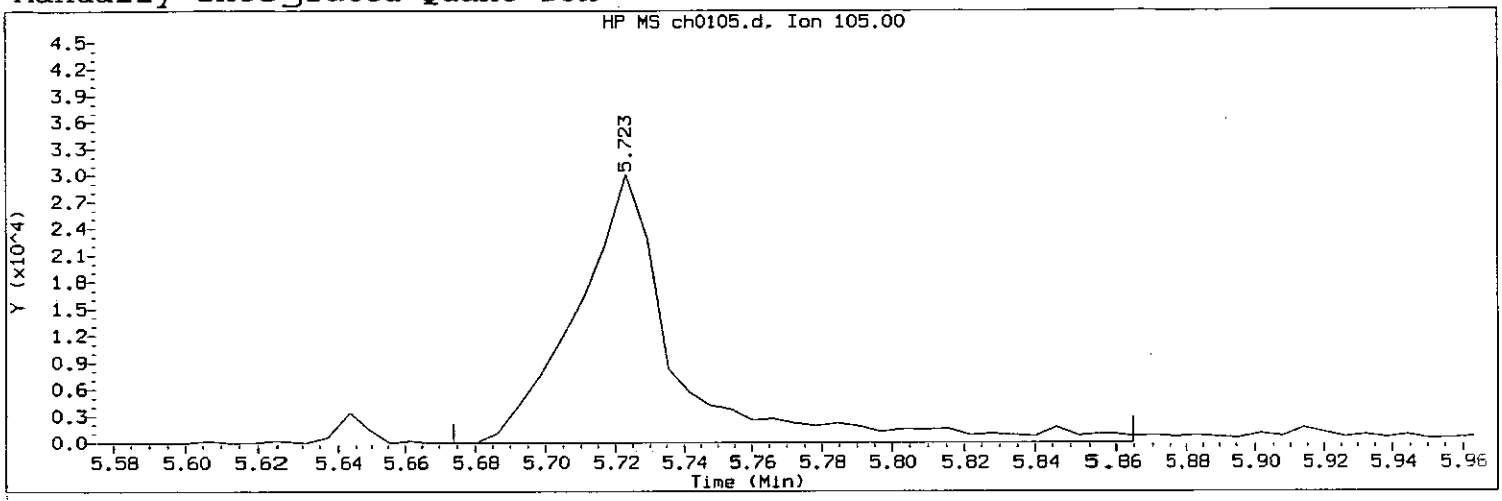
0316

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0105.d, generated on 08/05/2007 at 08:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

Compound Number : 43
Compound Name : Benzoic acid
Scan Number : 690
Retention Time (minutes): 5.723
Quant Ion : 105
Area (flag) : 60708 M
Concentration (ng/ul) : 23.4637
Integration start scan : 681 Integration stop scan: 712
Y at integration start : 0 Y at integration end: 0

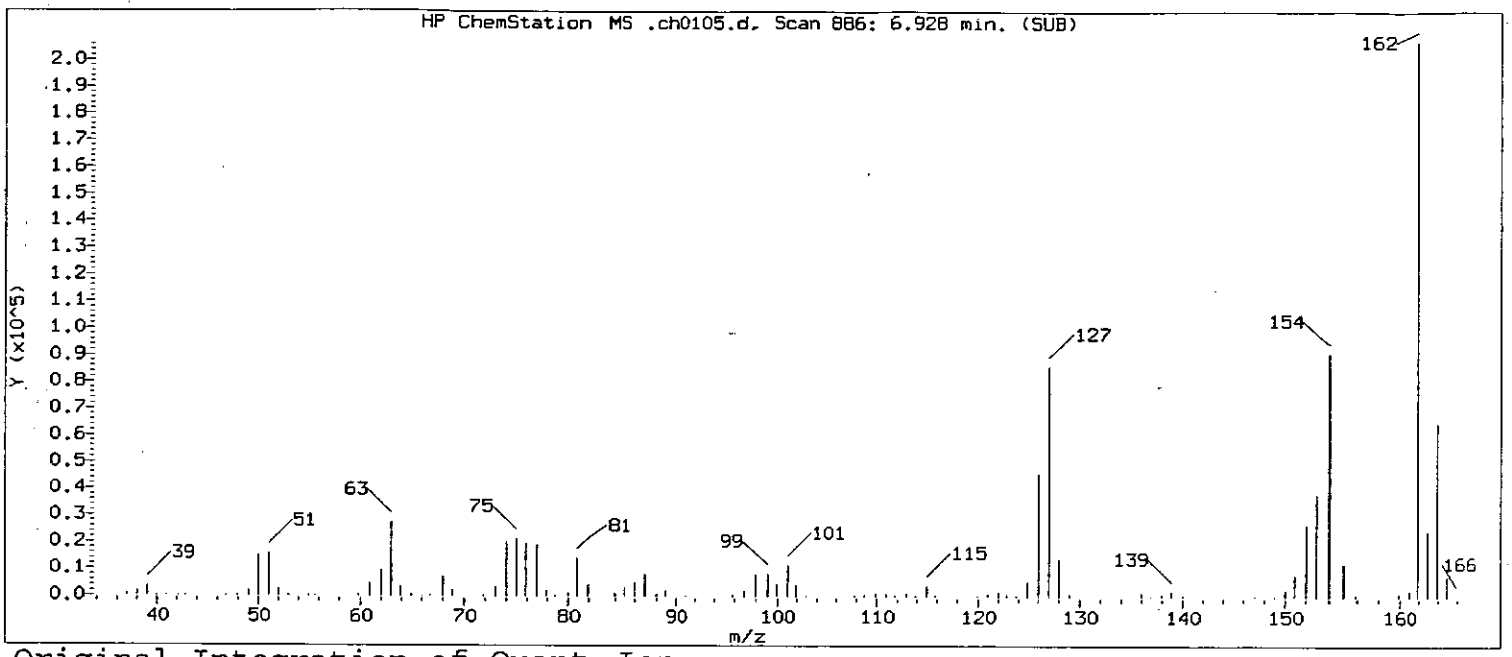
Reason for manual integration (circle one): missed peak ~~improper integratio~~

Analyst responsible for change: mc(13) 8/5/07

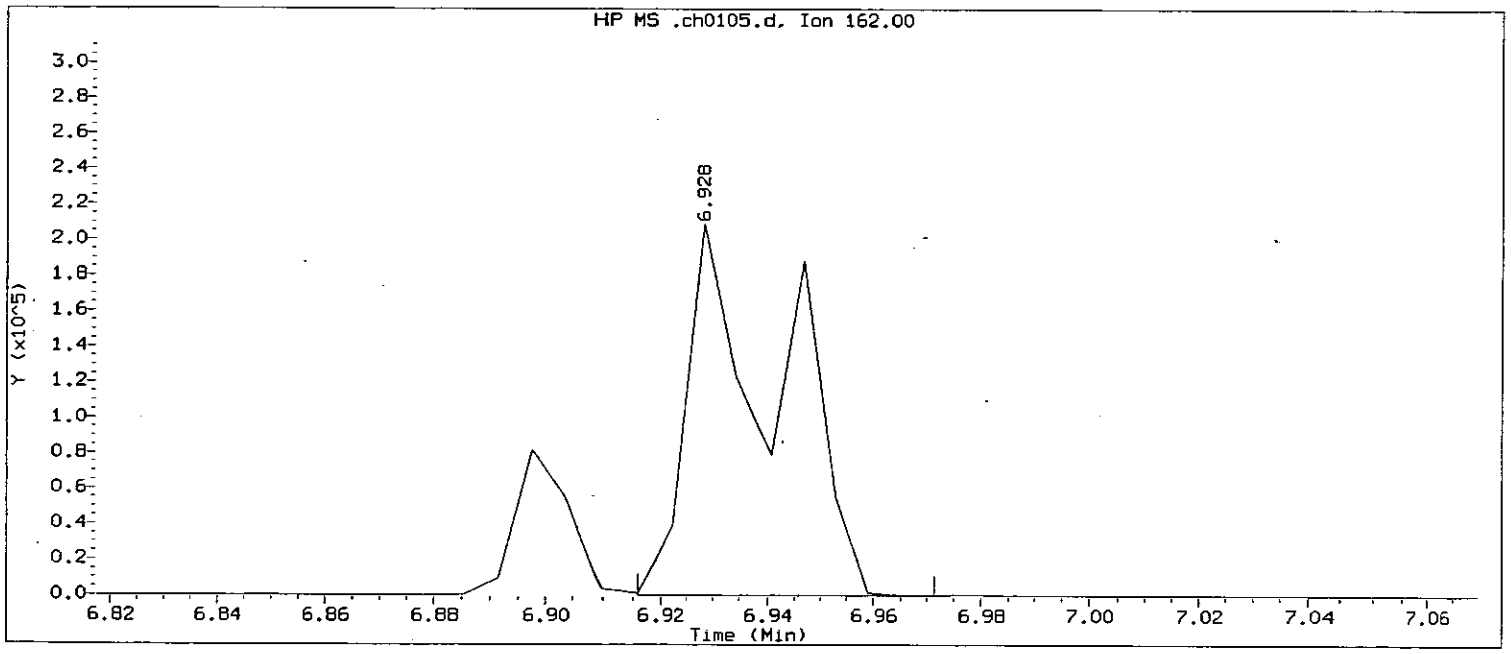
8317

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:09
Date, time and analyst ID of latest file update: 05-Aug-2007 08:09 Automation

Sample Name: SSTD015 Lab Sample ID: STD2057

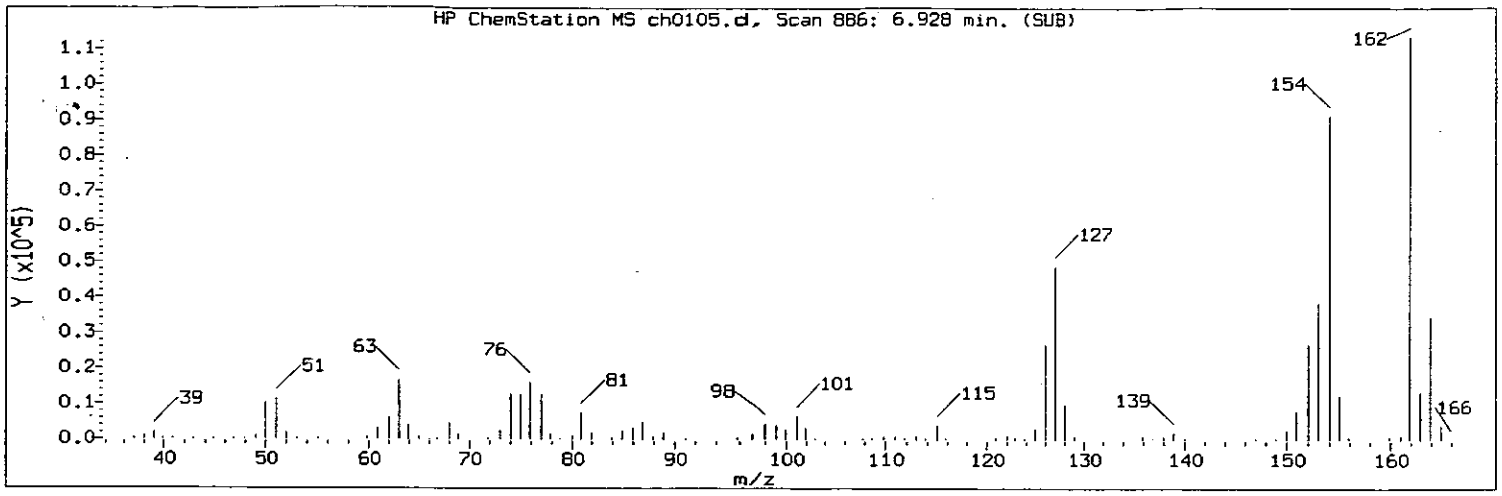
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 257301
Concentration (ng/ul) : 21.7806
Integration start scan : 883 Integration stop scan: 892
Y at integration start : 0 Y at integration end: 0

mc 5/5/07

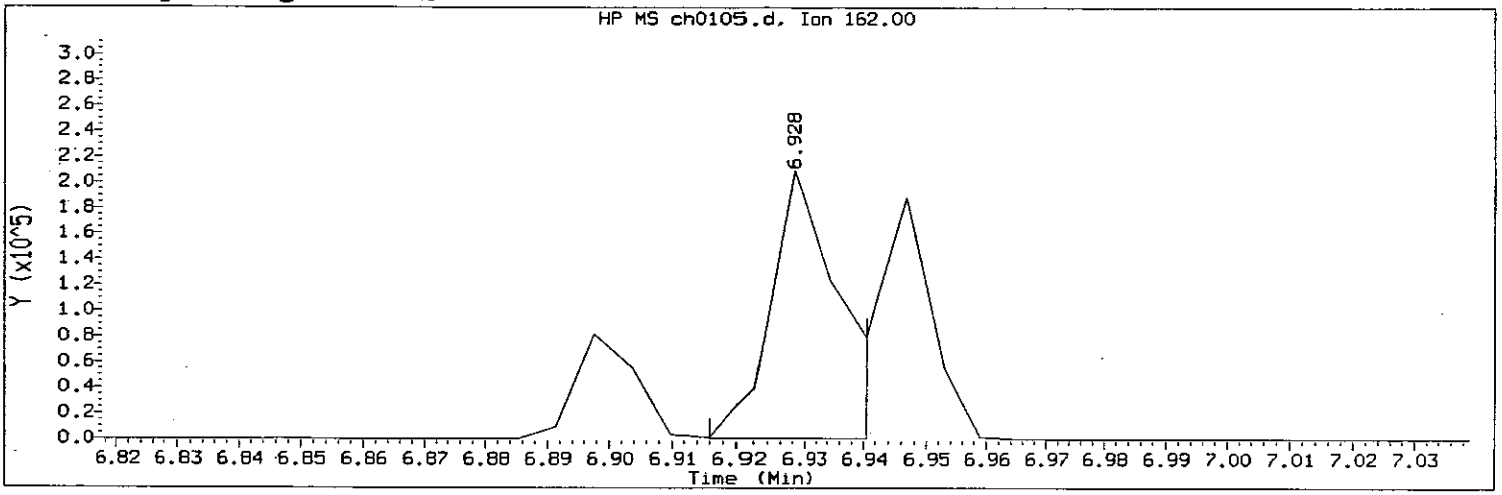
8318

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0105.d, generated on 08/05/2007 at 08:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2057

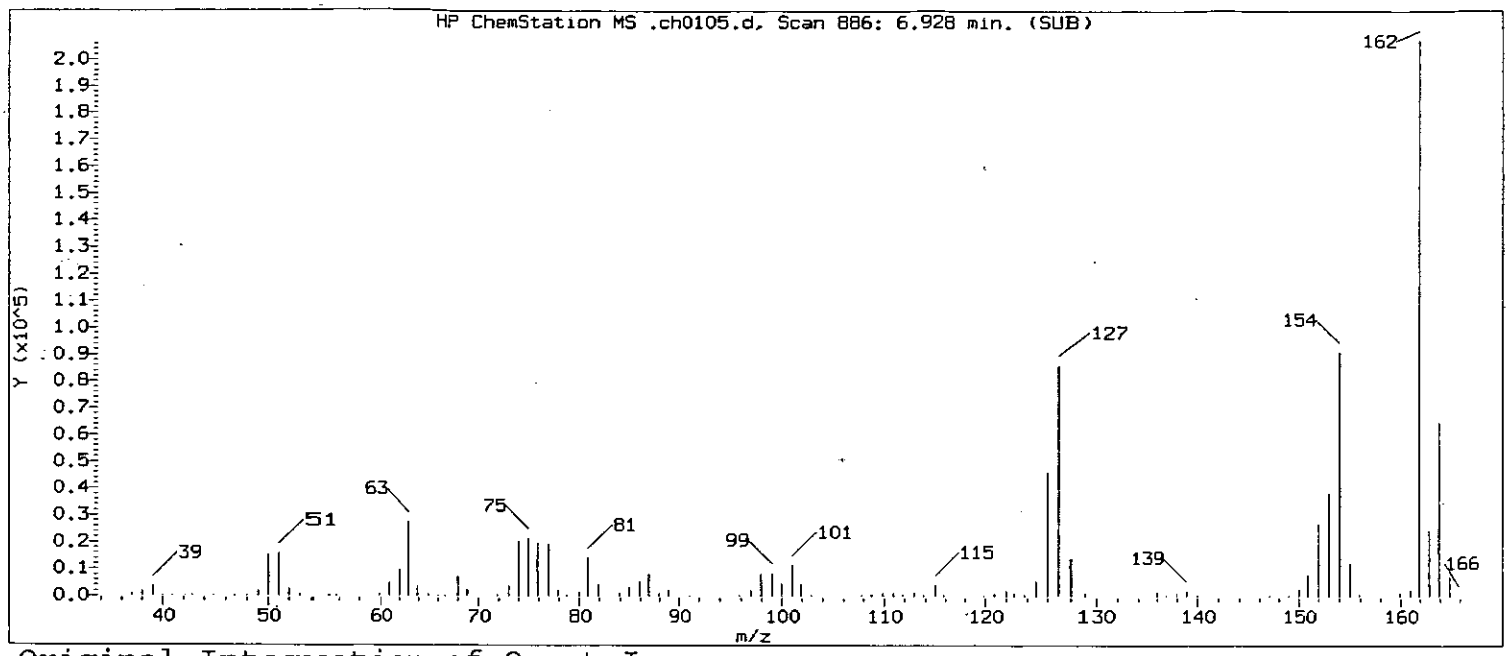
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area (flag) : 165706 M
Concentration (ng/ul) : 15.6444
Integration start scan : 883 Integration stop scan: 887
Y at integration start : 670 Y at integration end: 670

Reason for manual integration (circle one): missed peak improper integratio

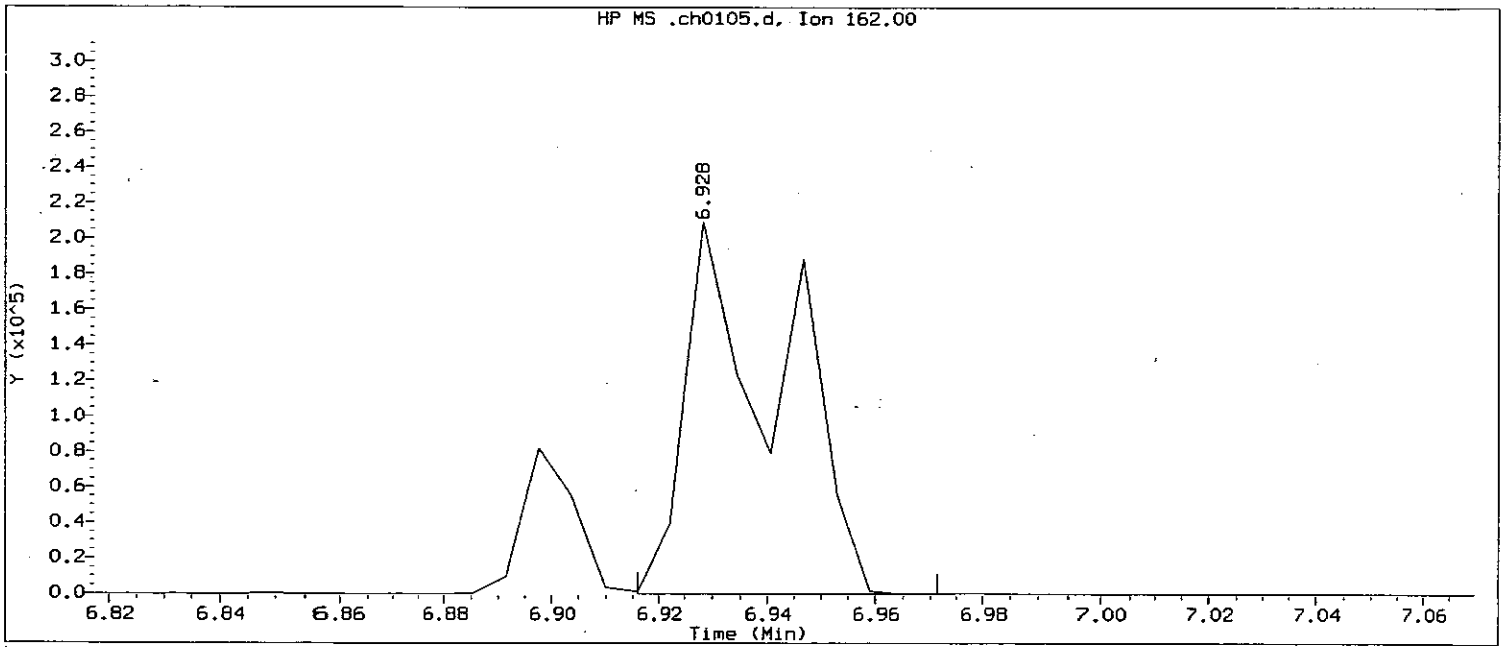
Analyst responsible for change: mac (3) 8/5/07

GC/MS audit/management approval: [signature] 8/9/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:09
Date, time and analyst ID of latest file update: 05-Aug-2007 08:09 Automation

Sample Name: SSTD015 Lab Sample ID: STD2057

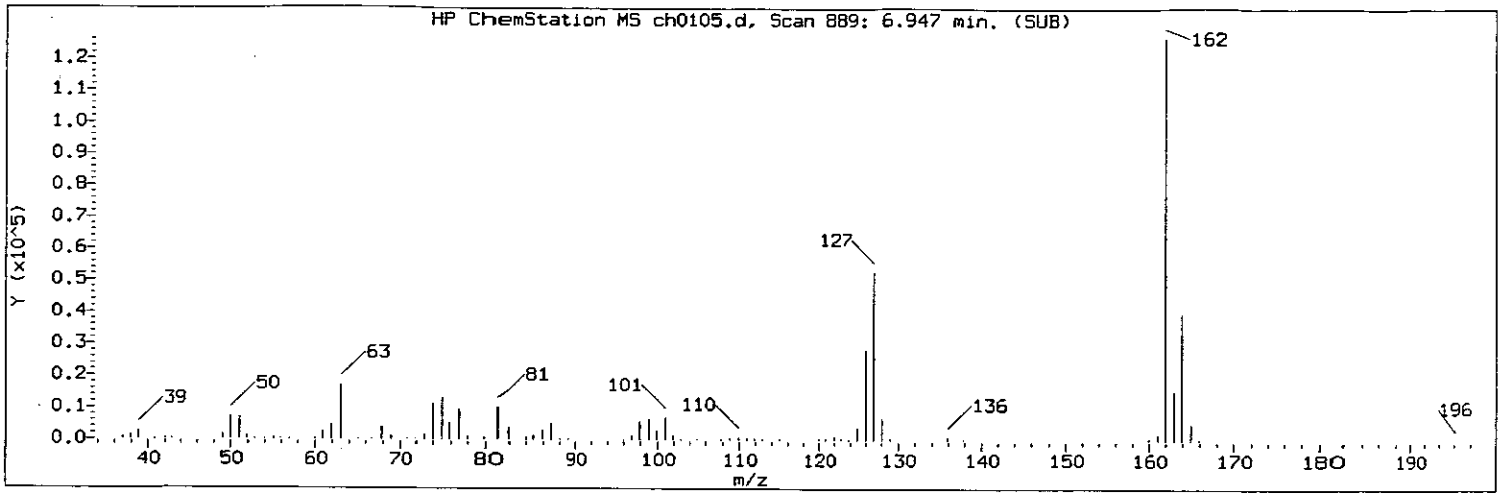
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 257301
Concentration (ng/ul) : 25.2799
Integration start scan : 883 Integration stop scan: 892
Y at integration start : 0 Y at integration end: 0

mc(13) 8/5/07

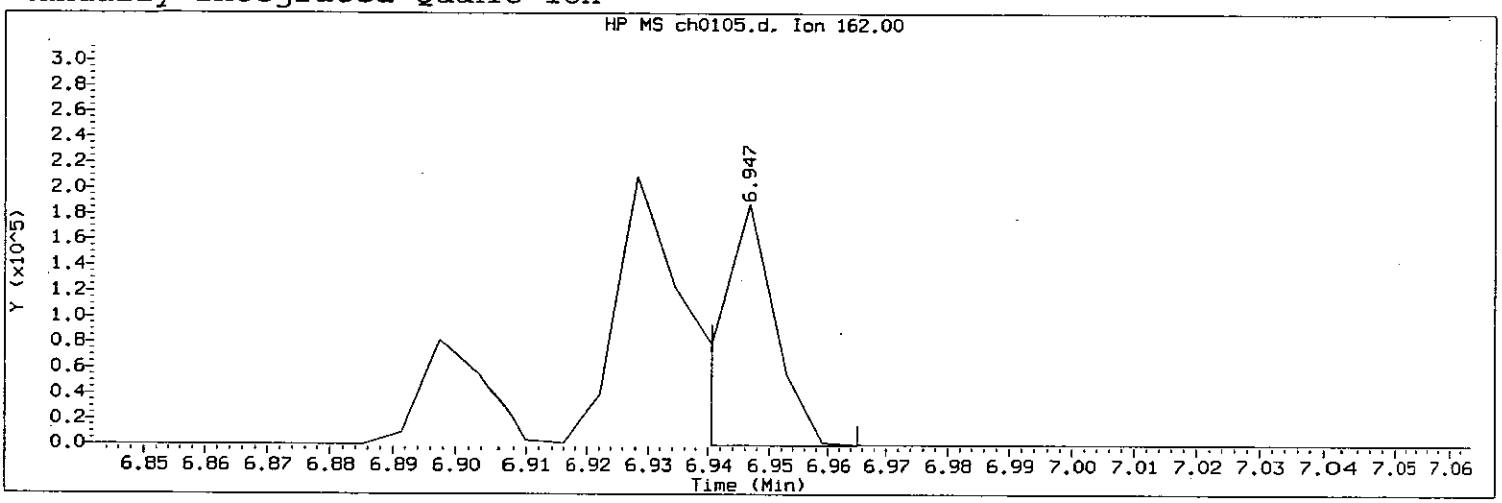
8320

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0105.d, generated on 08/05/2007 at 08:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0105.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 07:54 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:20
Date, time and analyst ID of latest file update: 05-Aug-2007 08:20 mac00013

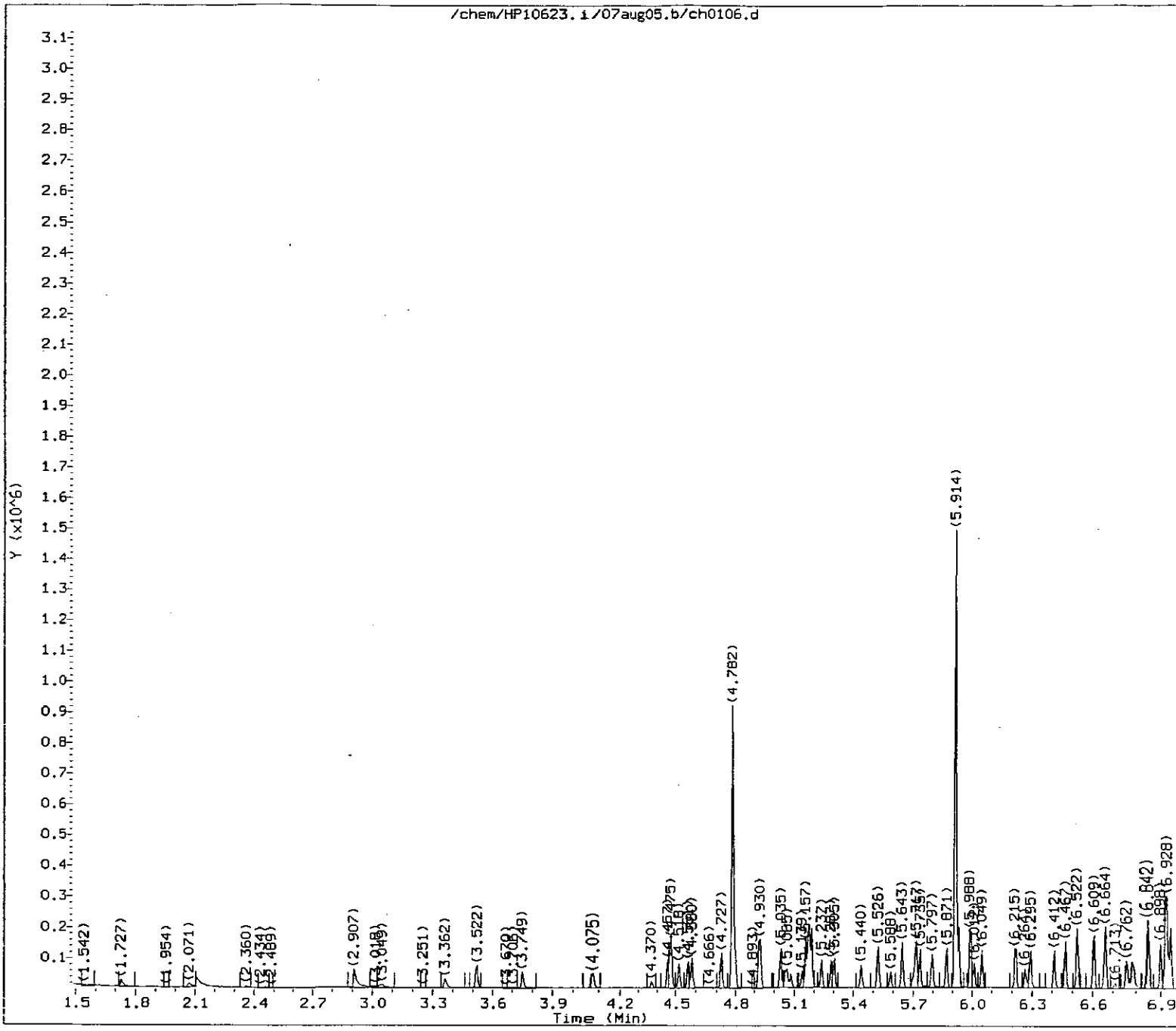
Sample Name: SSTD015 Lab Sample ID: STD2057

Compound Number	: 72		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 889		
Retention Time (minutes)	: 6.947		
Quant Ion	: 162		
Area (flag)	: 120404	M	
Concentration (ng/ul)	: 14.4148		
Integration start scan	: 887	Integration stop scan:	891
Y at integration start	: -355	Y at integration end:	-355

Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mc (3) 8/5/07

GC/MS audit/management approval: [signature] 8/6/07



Quant Report

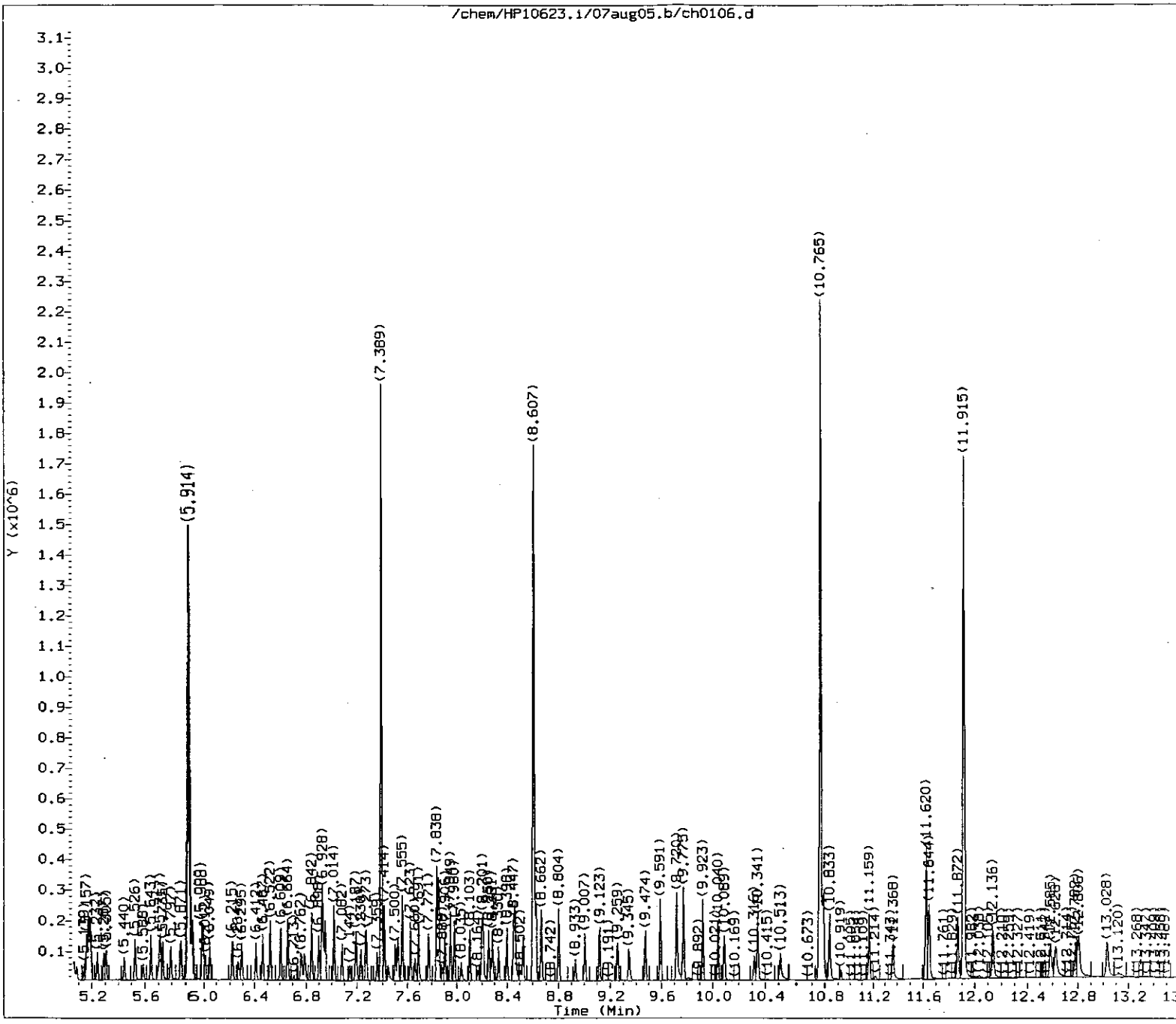
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

mc 0322 (3) 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

0323

mac (3) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.727	88	7115	4.7101
2) N-Nitrosodimethylamine	(1)	2.071	74	10999M	4.5558
3) Pyridine	(1)	2.108	79	22817M	5.1134
5) 2-Picoline	(1)	2.907	93	19320	4.3249
15) Phenol	(1)	4.469	94	26379	4.4482
16) Aniline	(1)	4.475	93	34054	4.8152
18) bis(2-Chloroethyl)ether	(1)	4.561	93	20261	4.7366
19) 2-Chlorophenol	(1)	4.580	128	17498	4.5196
20) 1,3-Dichlorobenzene	(1)	4.727	146	19267	4.7652
21) 1,4-Dichlorobenzene-d4	(1)	4.782	152	102541	40.0000
22) 1,4-Dichlorobenzene	(1)	4.801	146	20313	4.8189
23) Benzyl alcohol	(1)	4.924	108	12806	4.5655
24) 1,2-Dichlorobenzene	(1)	4.930	146	18797	4.7134
25) 2-Methylphenol	(1)	5.035	108	18201	4.4984
26) 2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	34502	4.7334
27) bis(2-Chloroisopropyl)ether	(1)	5.065	45	34502	4.7334
29) Acetophenone	(1)	5.157	105	28686	4.7380
30) N-Nitroso-di-n-propylamine	(1)	5.170	70	16232	4.6287
31) 4-Methylphenol	(1)	5.176	108	20405	4.4992
33) o-Toluidine	(1)	5.188	106	32874	4.7055
34) Hexachloroethane	(1)	5.237	117	7153	4.6509
36) Nitrobenzene	(2)	5.305	77	21558	4.5560
38) Isophorone	(2)	5.526	82	42950	4.6866
39) 2-Nitrophenol	(2)	5.588	139	5952	3.7586
40) 2,4-Dimethylphenol	(2)	5.643	107	19509	4.4678
42) bis(2-Chloroethoxy)methane	(2)	5.735	93	24855	4.6925
43) Benzoic acid	(2)	5.705	105	19789	8.3939
44) 2,4-Dichlorophenol	(2)	5.797	162	15404	4.5101
45) 1,2,4-Trichlorobenzene	(2)	5.871	180	16737	4.8821
46) Naphthalene-d8	(2)	5.914	136	441382	40.0000
47) Naphthalene	(2)	5.932	128	58685	4.8700
48) 4-Chloroaniline	(2)	5.988	127	23671	4.6911
49) 2,6-Dichlorophenol	(2)	5.994	162	15250	4.6379
51) Hexachlorobutadiene	(2)	6.049	225	9033	4.7052
52) Quinoline	(2)	6.221	129	38999	4.7655
53) Caprolactam	(2)	6.264	113	5777	4.0782
55) 4-Chloro-3-methylphenol	(2)	6.412	107	17478	4.4900
58) 2-Methylnaphthalene	(2)	6.522	142	38658	4.7804
60) 1-Methylnaphthalene	(2)	6.609	142	37786	4.7178
61) Hexachlorocyclopentadiene	(3)	6.658	237	7578	3.8815
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	17737	5.0673
64) 2,4,6-Trichlorophenol	(3)	6.768	196	10297M	4.2978
65) 2,4,5-Trichlorophenol	(3)	6.787	196	12512M	4.4209

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.922	154	51701	5.0087
69) Diphenyl	(3)	6.922	154	51701	5.0087
70) 1,1'-Biphenyl	(3)	6.922	154	51701	5.0087
71) 2-Chloronaphthalene	(3)	6.928	162	50906M	4.9238
72) 1-Chloronaphthalene	(3)	6.947	162	39084M	4.8146
73) Diphenyl ether	(3)	7.014	170	28561	4.8825
74) 2-Nitroaniline	(3)	7.021	138	8945	3.8229
77) Dimethylphthalate	(3)	7.187	163	45607	4.6982
79) 2,6-Dinitrotoluene	(3)	7.230	165	7549	3.7516
80) Acenaphthylene	(3)	7.273	152	61444	4.6688
81) 3-Nitroaniline	(3)	7.359	138	8746	3.9162
82) Acenaphthene-d10	(3)	7.389	164	292917	40.0000
83) Acenaphthene	(3)	7.414	153	40887	4.9524
84) 2,4-Dinitrophenol	(3)	7.445	184	5333	8.6709
85) Pentachlorobenzene	(3)	7.525	250	16639	4.9384
86) 4-Nitrophenol	(3)	7.500	109	11054M	7.2879
87) Dibenzofuran	(3)	7.555	168	59622	4.9458
88) 2,4-Dinitrotoluene	(3)	7.555	165	9193	3.5898
90) 1-Naphthylamine	(3)	7.623	143	42378	4.8735
91) 2,3,4,6-Tetrachlorophenol	(3)	7.660	232	8303	4.1851
92) 2-Naphthylamine	(3)	7.691	143	41965	4.7555
93) Diethylphthalate	(3)	7.771	149	44763	4.5867
94) Fluorene	(3)	7.838	166	48019	4.8707
96) 4-Chlorophenyl-phenylether	(3)	7.857	204	22410	4.9136
98) 4-Nitroaniline	(3)	7.857	138	10412	4.2366
99) 4,6-Dinitro-2-methylphenol	(4)	7.888	198	6108	5.6365
102) N-Nitrosodiphenylamine	(4)	7.949	169	35503	4.6732
103) 1,2-Diphenylhydrazine	(4)	7.980	77	53422	4.5806
108) Phorate	(4)	8.201	75	27578	4.1603
110) 4-Bromophenyl-phenylether	(4)	8.250	248	12357	4.4720
112) Hexachlorobenzene	(4)	8.281	284	15054	4.9560
116) Pentachlorophenol	(4)	8.447	266	20495	11.3570
120) Phenanthrene-d10	(4)	8.607	188	554320	40.0000
121) Phenanthrene	(4)	8.625	178	72991	4.8321
122) Dinoseb	(4)	8.619	211	3679M	2.5275
124) Anthracene	(4)	8.662	178	72794	4.6716
125) Carbazole	(4)	8.804	167	69692	4.7154
126) Methyl parathion	(4)	8.933	109	8019	3.1600
127) Ronnel	(4)	9.007	285	17669	4.6450
128) Di-n-butylphthalate	(4)	9.123	149	71435	4.2302
129) Parathion	(4)	9.259	109	5910	3.3420
134) Fluoranthene	(4)	9.591	202	80106	4.7333
135) Benzidine	(5)	9.720	184	101485	10.6981

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

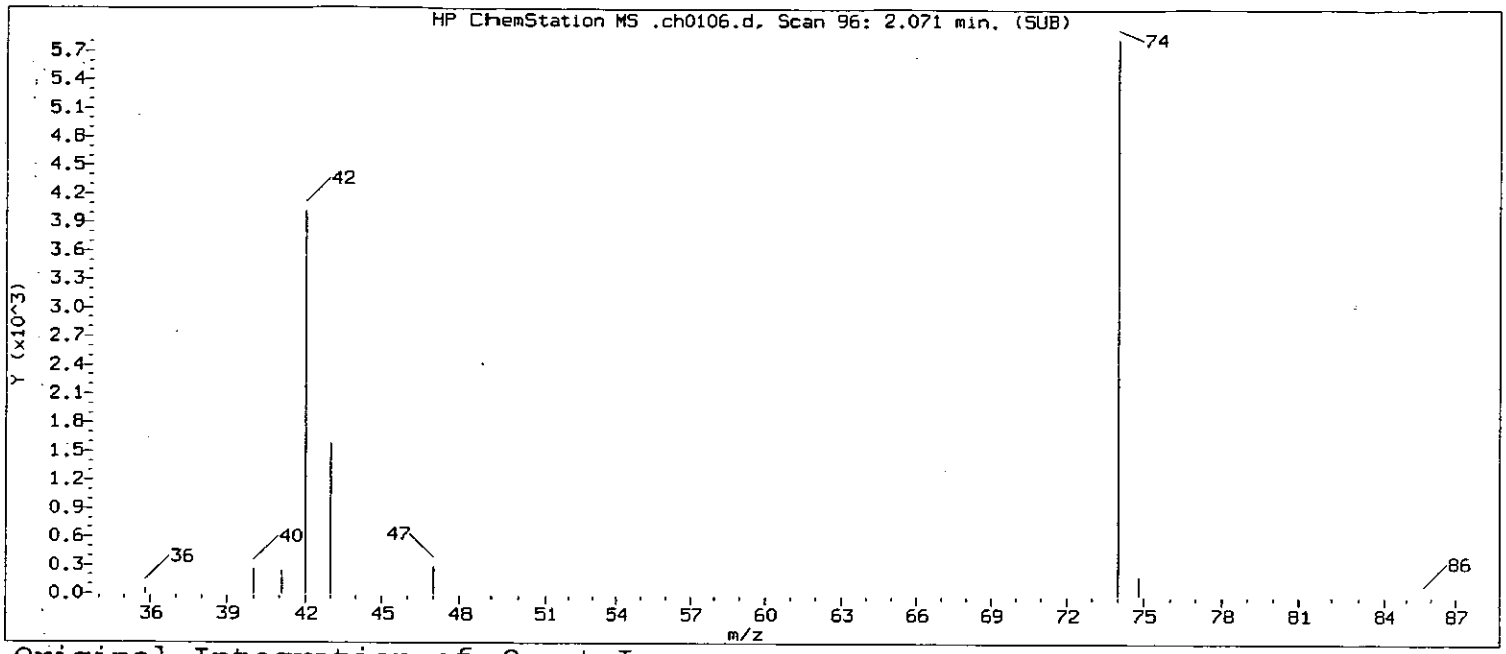
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

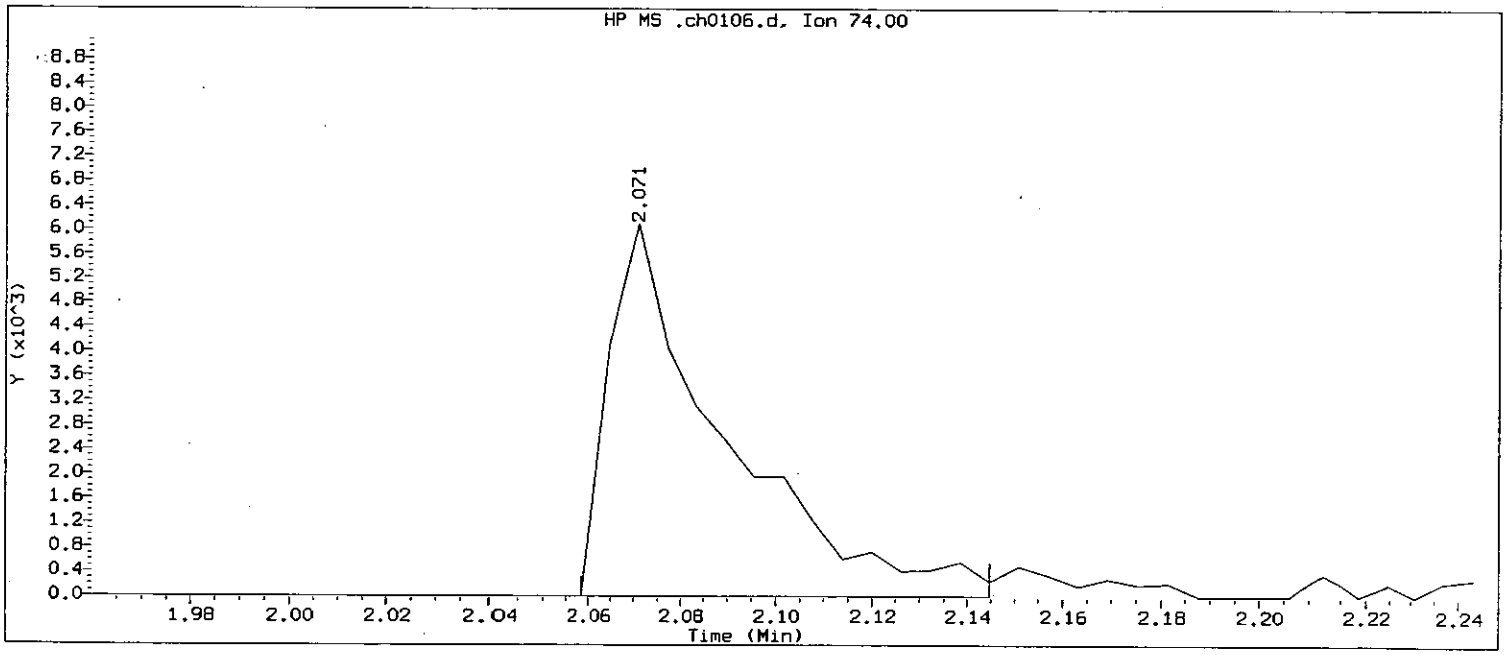
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.775	202	84774	4.6217
143)	Butylbenzylphthalate	(5)	10.341	149	31581	3.9021
145)	3,3'-Dichlorobenzidine	(5)	10.753	252	26201	4.2252
146)	Benzo(a)anthracene	(5)	10.759	228	79046	4.7694
147)	Hexabromobenzene	(5)	10.771	552	1839	3.8584
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	13825	4.4506
149)	Chrysene-d12	(5)	10.765	240	586912	40.0000
150)	Chrysene	(5)	10.790	228	78852	4.8211
151)	bis(2-Ethylhexyl)phthalate	(5)	10.833	149	43476	3.8851
152)	6-Methylchrysene	(5)	11.159	242	51778	4.4213
156)	Di-n-octylphthalate	(6)	11.368	149	60483	3.5166
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.620	256	32740	4.1584
158)	Benzo(b)fluoranthene	(6)	11.620	252	69467	4.3355
159)	Benzo(k)fluoranthene	(6)	11.644	252	86340	4.7948
160)	Benzo(a)pyrene	(6)	11.872	252	71946	4.5693
161)	Perylene-d12	(6)	11.915	264	477081	40.0000
162)	3-Methylcholanthrene	(6)	12.136	268	36772	4.2766
166)	Dibenz(a,h)acridine	(6)	12.585	279	46862	3.9718
167)	Dibenz(a,j)acridine	(6)	12.628	279	58712	4.4506
168)	Indeno(1,2,3-cd)pyrene	(6)	12.782	276	75327	4.2545
169)	Dibenz(a,h)anthracene	(6)	12.806	278	63197M	4.4572
170)	Benzo(g,h,i)perylene	(6)	13.028	276	67534	4.5490
9)	2-Fluorophenol	(1)	3.522	112	17443	4.7399
13)	Phenol-d5	(1)	4.457	99	22495	4.4977
14)	Phenol-d6	(1)	4.457	99	22495	4.4977
35)	Nitrobenzene-d5	(2)	5.287	82	19013	4.4189
66)	2-Fluorobiphenyl	(3)	6.842	172	44956	4.8766
104)	2,4,6-Tribromophenol	(3)	8.035	330	5631	4.3497
138)	Terphenyl-d14	(5)	9.923	244	53888	4.4606

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

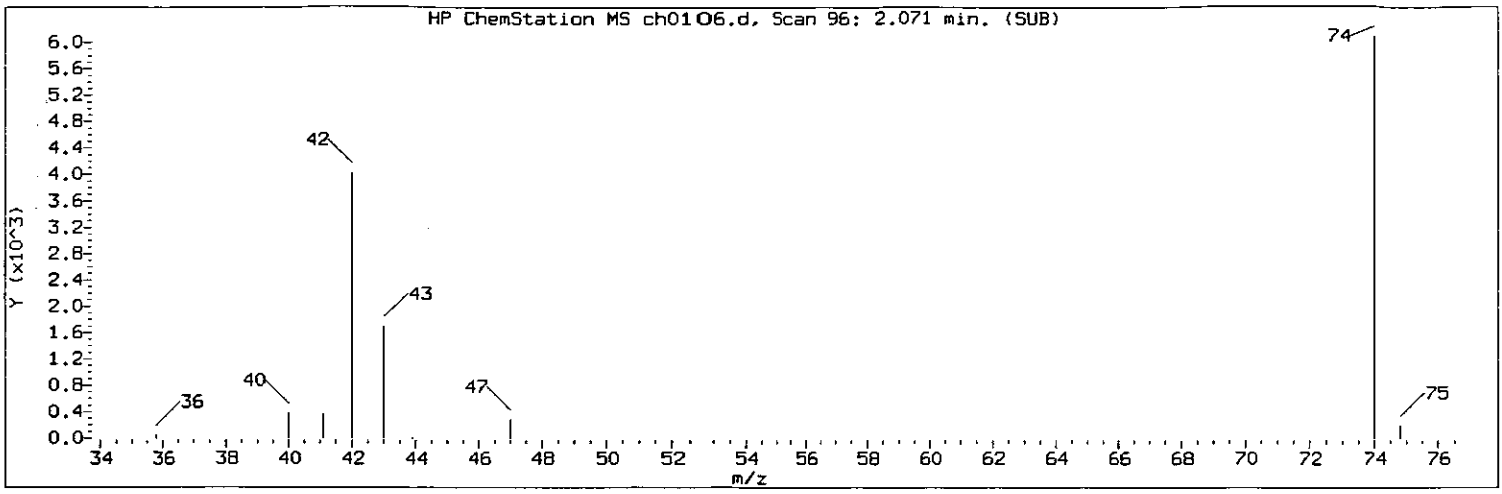
Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 96
Retention Time (minutes) : 2.071
Quant Ion : 74
Area : 10326
Concentration (ng/ul) : 4.3173
Integration start scan : 93 Integration stop scan: 107
Y at integration start : 0 Y at integration end: 0

mc 8/5/07

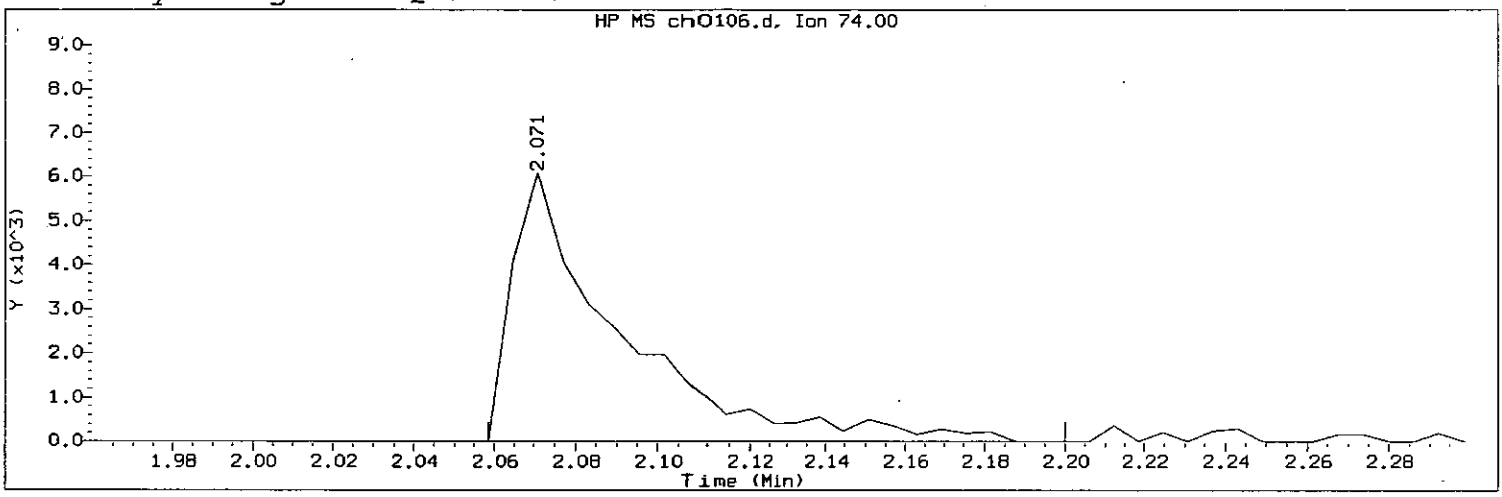
8327

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

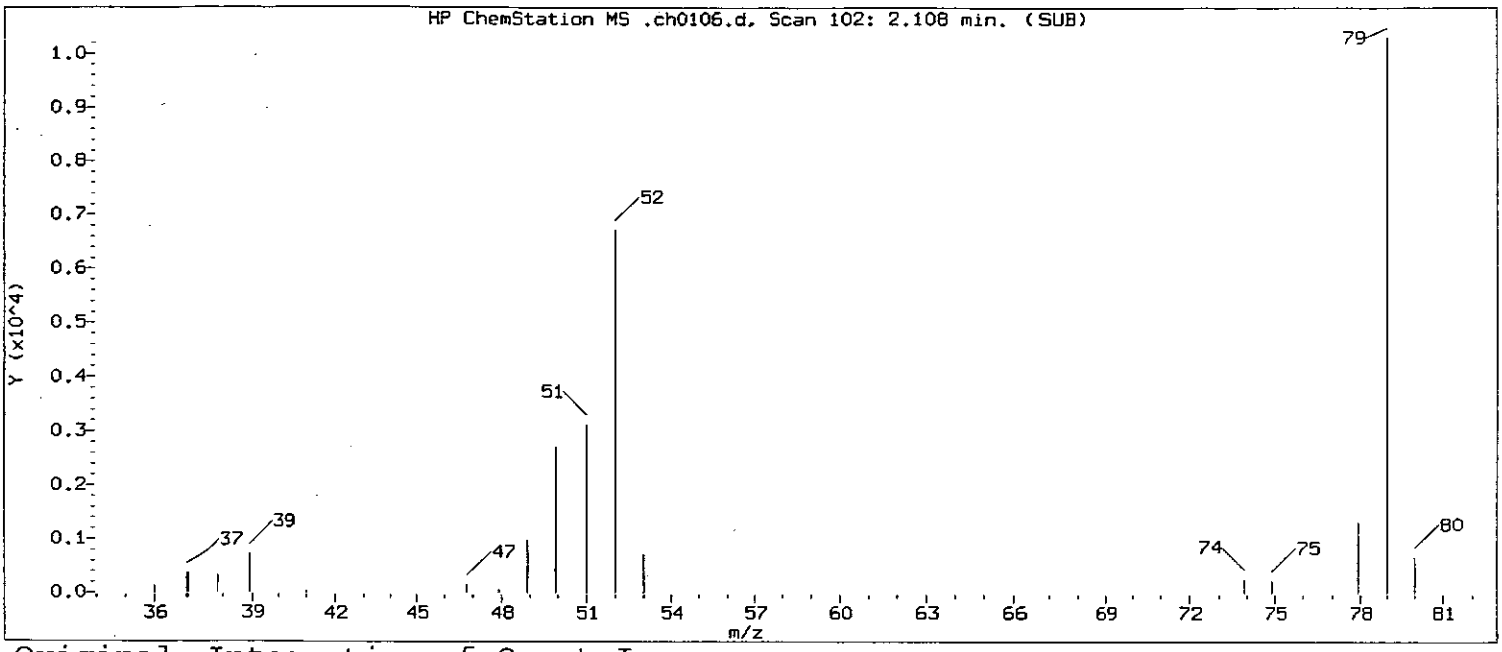
Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 96
Retention Time (minutes): 2.071
Quant Ion : 74
Area (flag) : 10999 M
Concentration (ng/ul) : 4.5558
Integration start scan : 93 Integration stop scan: 116
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

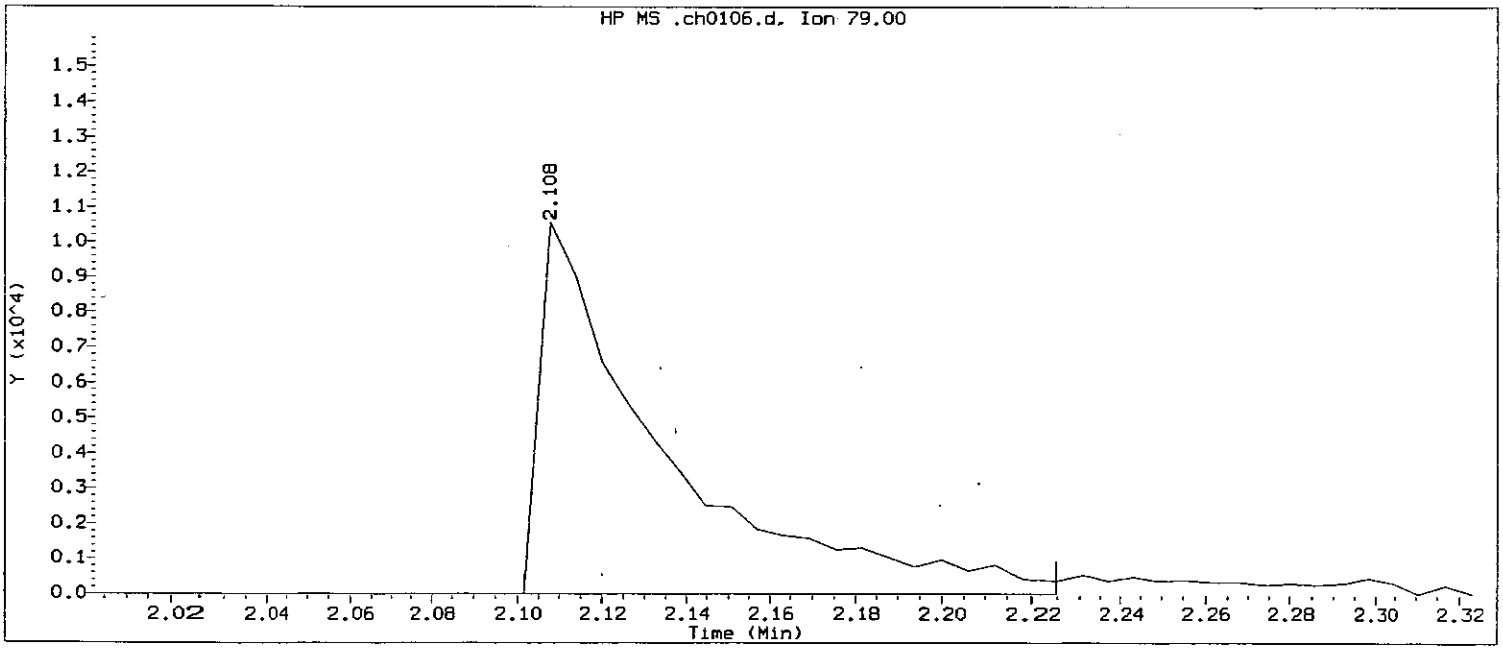
Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 0328 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

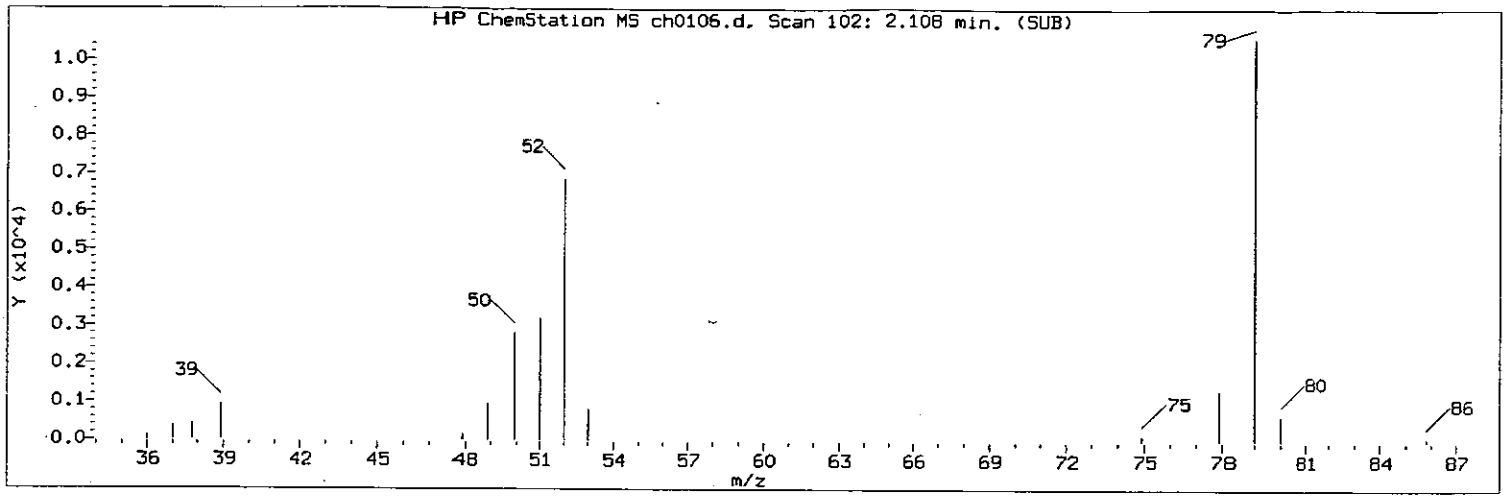
Compound Number : 3
Compound Name : Pyridine
Scan Number : 102
Retention Time (minutes): 2.108
Quant Ion : 79
Area : 20956
Concentration (ng/ul) : 4.7626
Integration start scan : 100 Integration stop scan: 120
Y at integration start : 0 Y at integration end: 0

mc(3) 8/5/07

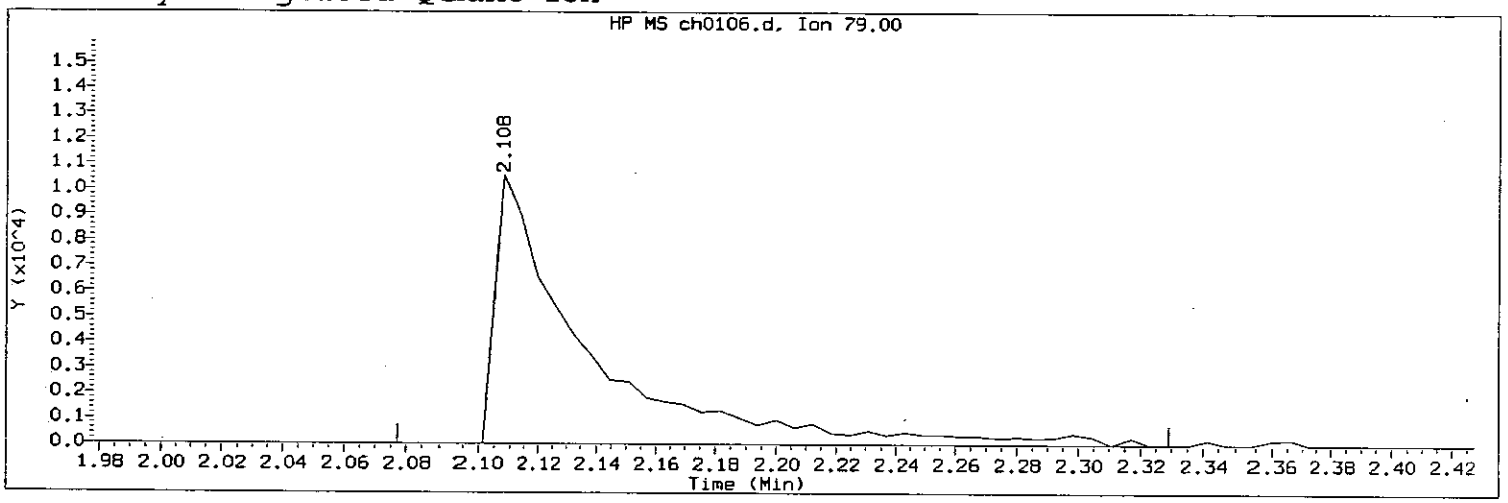
8329

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 3
Compound Name : Pyridine
Scan Number : 102
Retention Time (minutes): 2.108
Quant Ion : 79
Area (flag) : 22817 M
Concentration (ng/ul) : 5.1134
Integration start scan : 96 Integration stop scan: 137
Y at integration start : 0 Y at integration end: 0

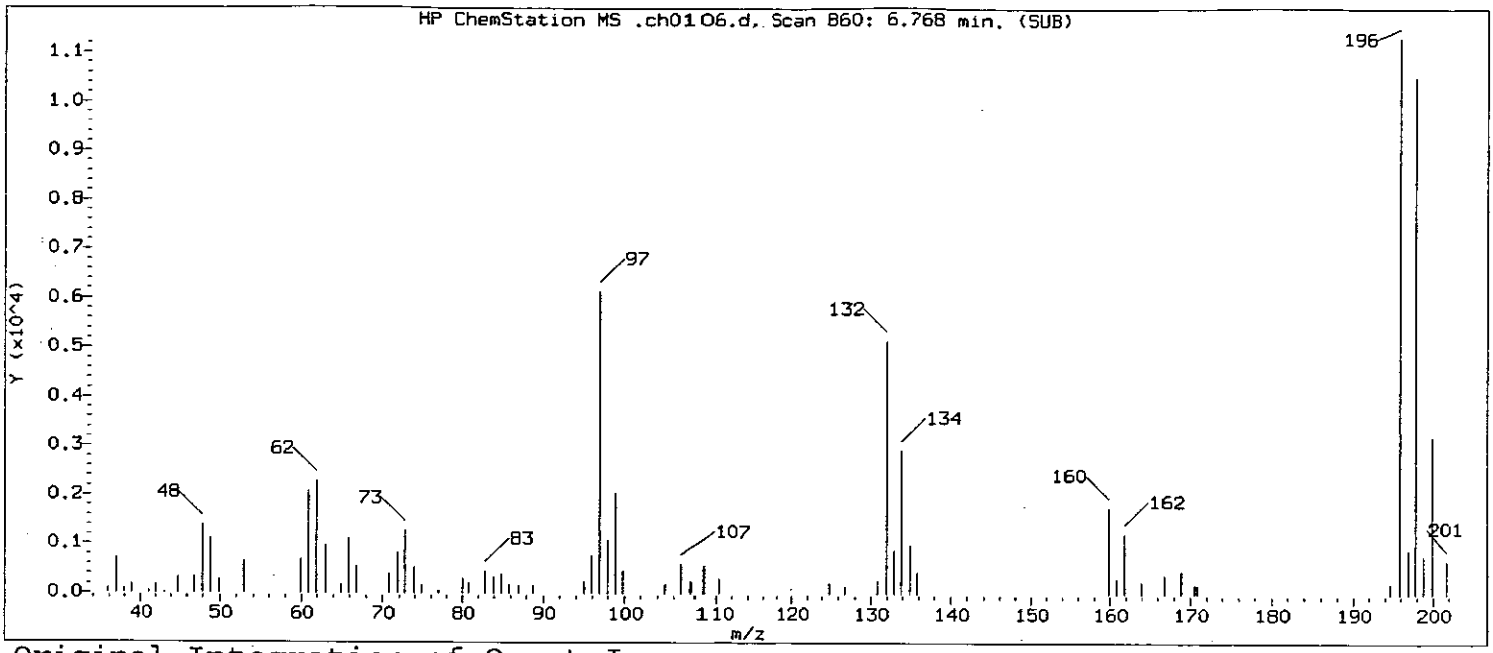
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: MAC (3) 8/5/07

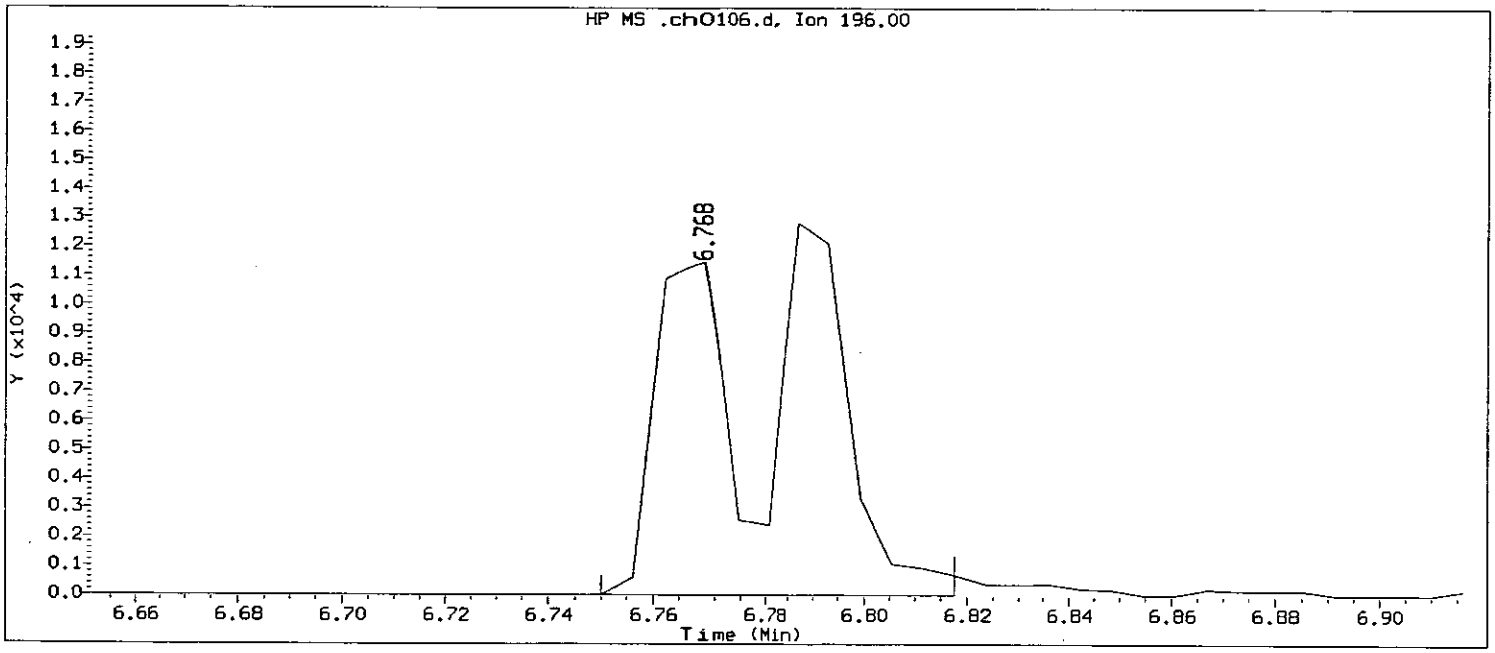
0330 8/8/07

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

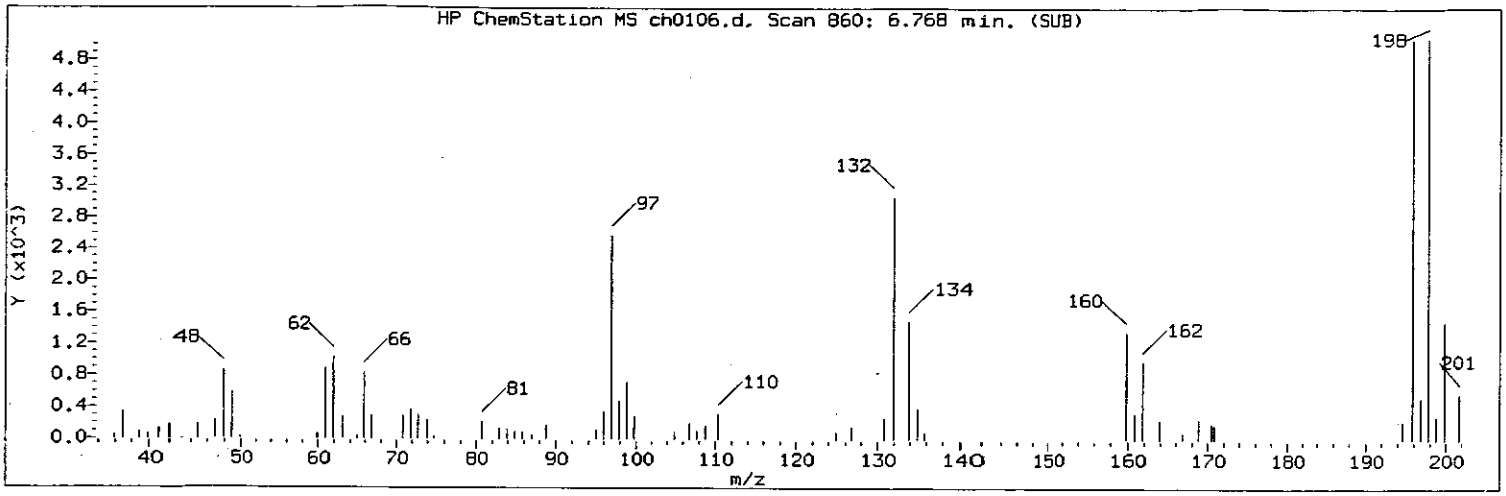
Compound Number	: 64
Compound Name	: 2,4,6-Trichlorophenol
Scan Number	: 860
Retention Time (minutes)	: 6.768
Quant Ion	: 196
Area	: 21609
Concentration (ng/ul)	: 7.7928
Integration start scan	: 856 Integration stop scan: 867
Y at integration start	: 0 Y at integration end: 0

mac (3) 8/5/07

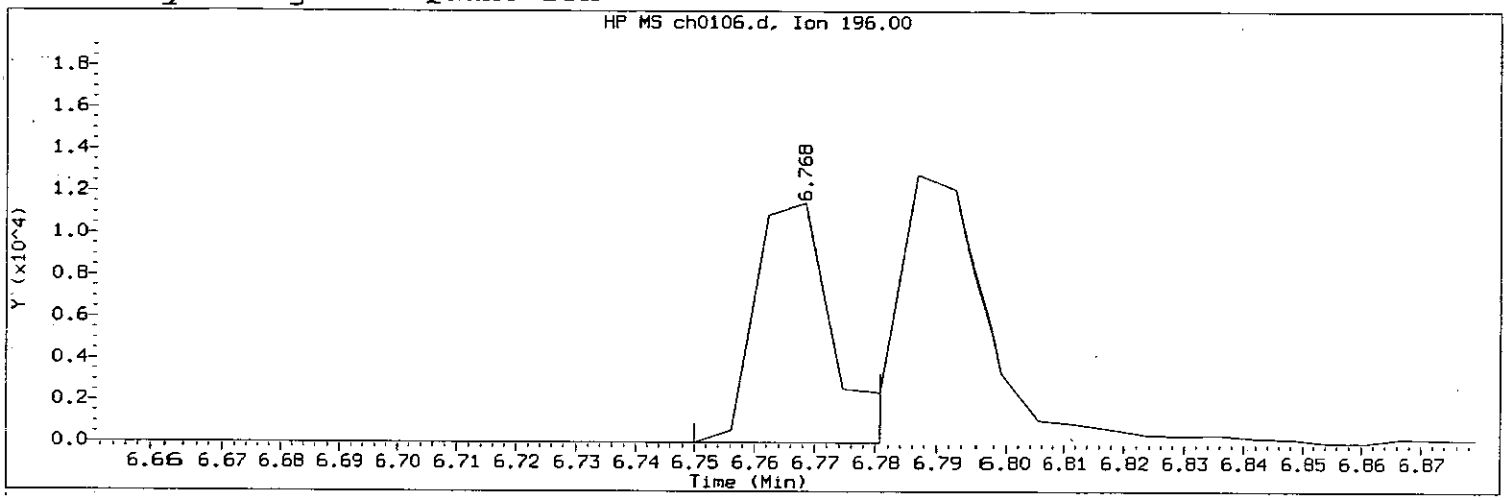
0331

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

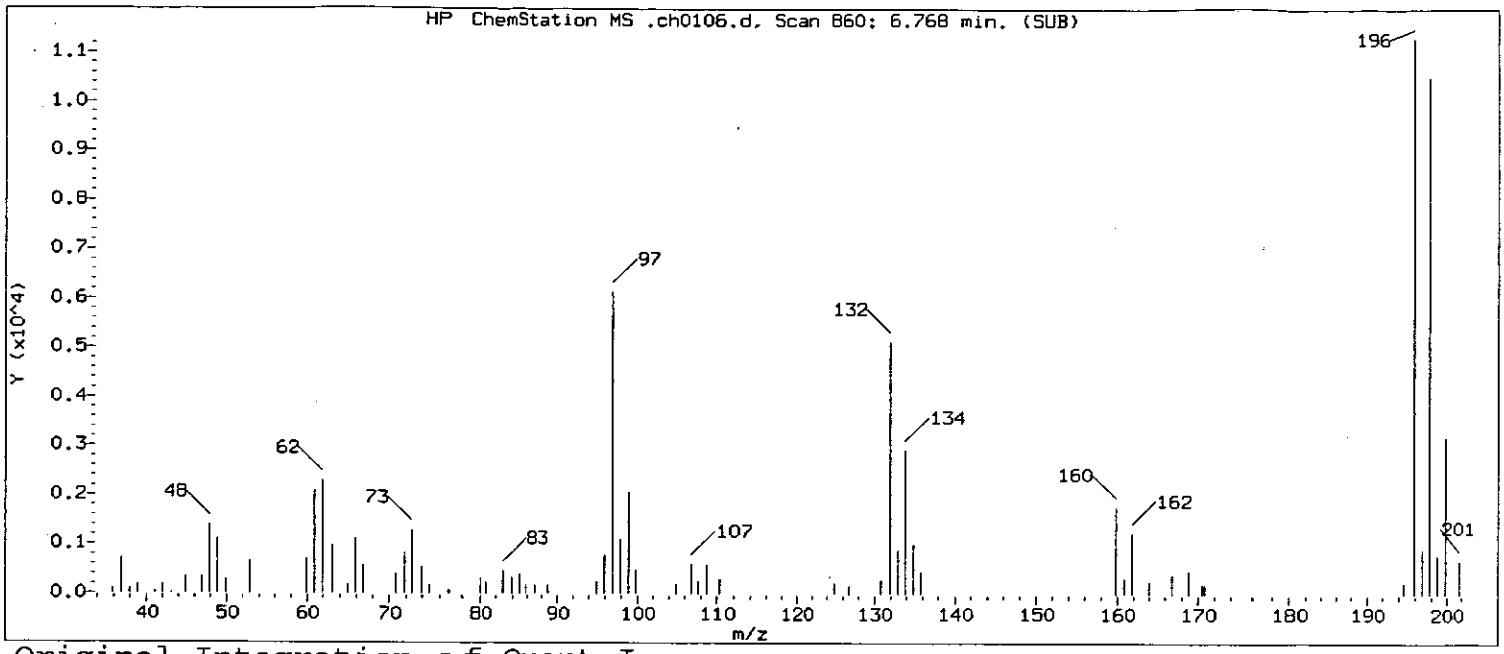
Compound Number : 64
Compound Name : 2,4,6-Trichlorophenol
Scan Number : 860
Retention Time (minutes): 6.768
Quant Ion : 196
Area (flag) : 10297 M
Concentration (ng/ul) : 4.2978
Integration start scan : 856 Integration stop scan: 861
Y at integration start : 6 Y at integration end: 6

Reason for manual integration (circle one): missed peak ~~improper integrati~~

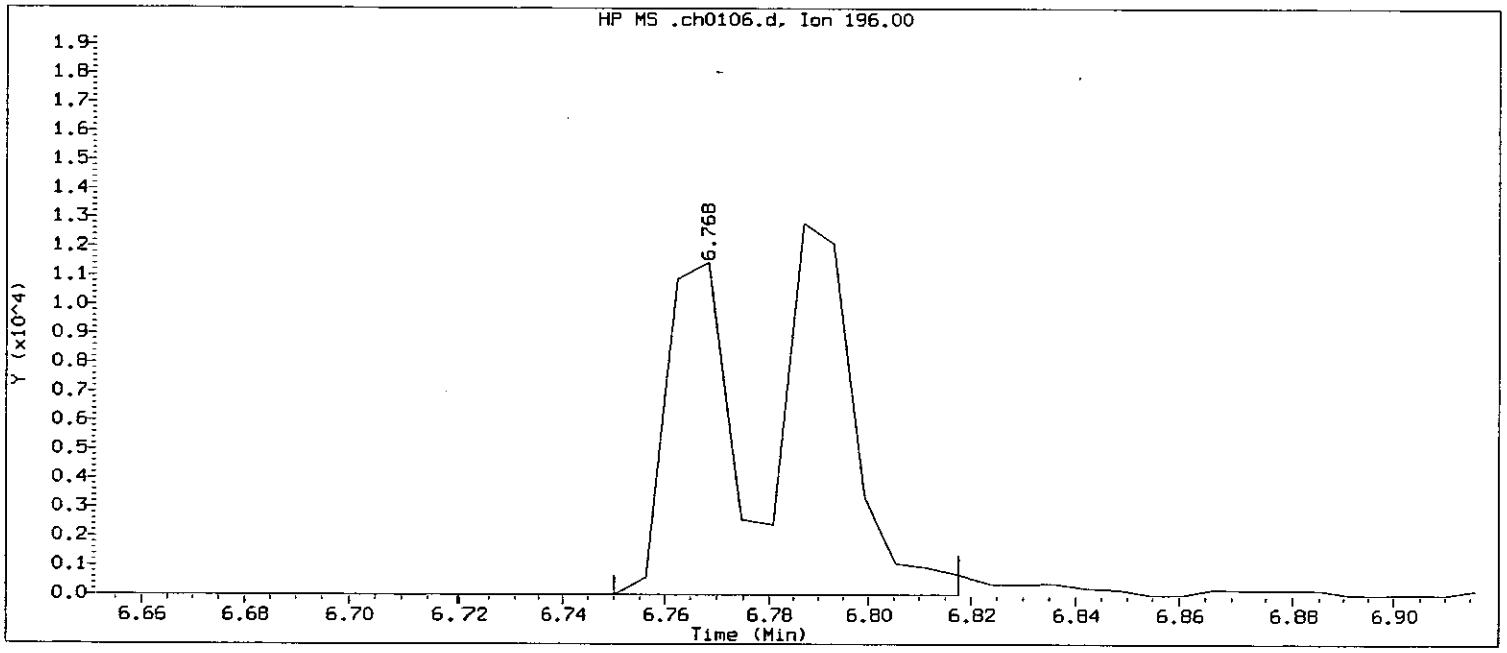
Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 8332 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

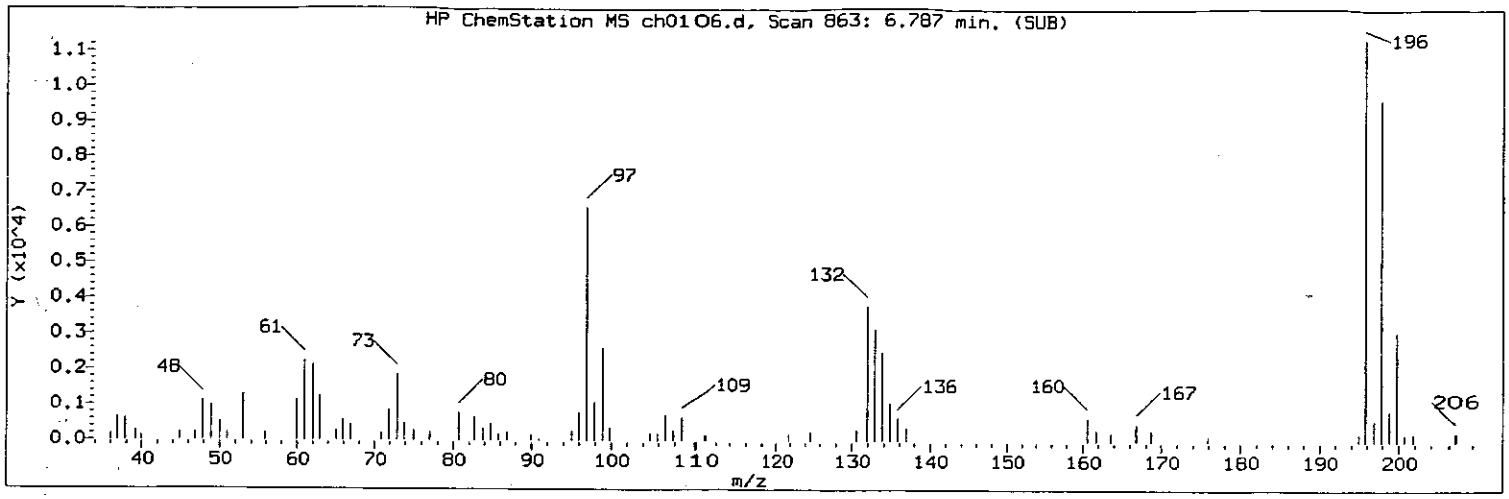
Compound Number : 65
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 860
Retention Time (minutes): 6.768
Quant Ion : 196
Area : 21609
Concentration (ng/ul) : 6.8963
Integration start scan : 856 Integration stop scan: 867
Y at integration start : 0 Y at integration end: 0

mc 8/15/07

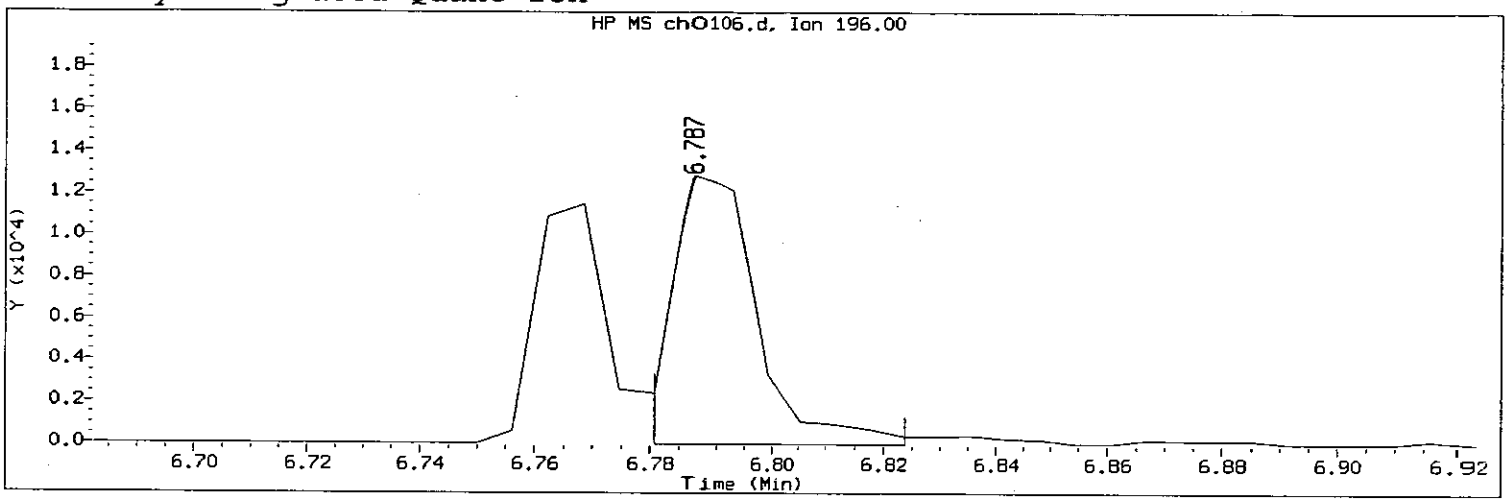
0333

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

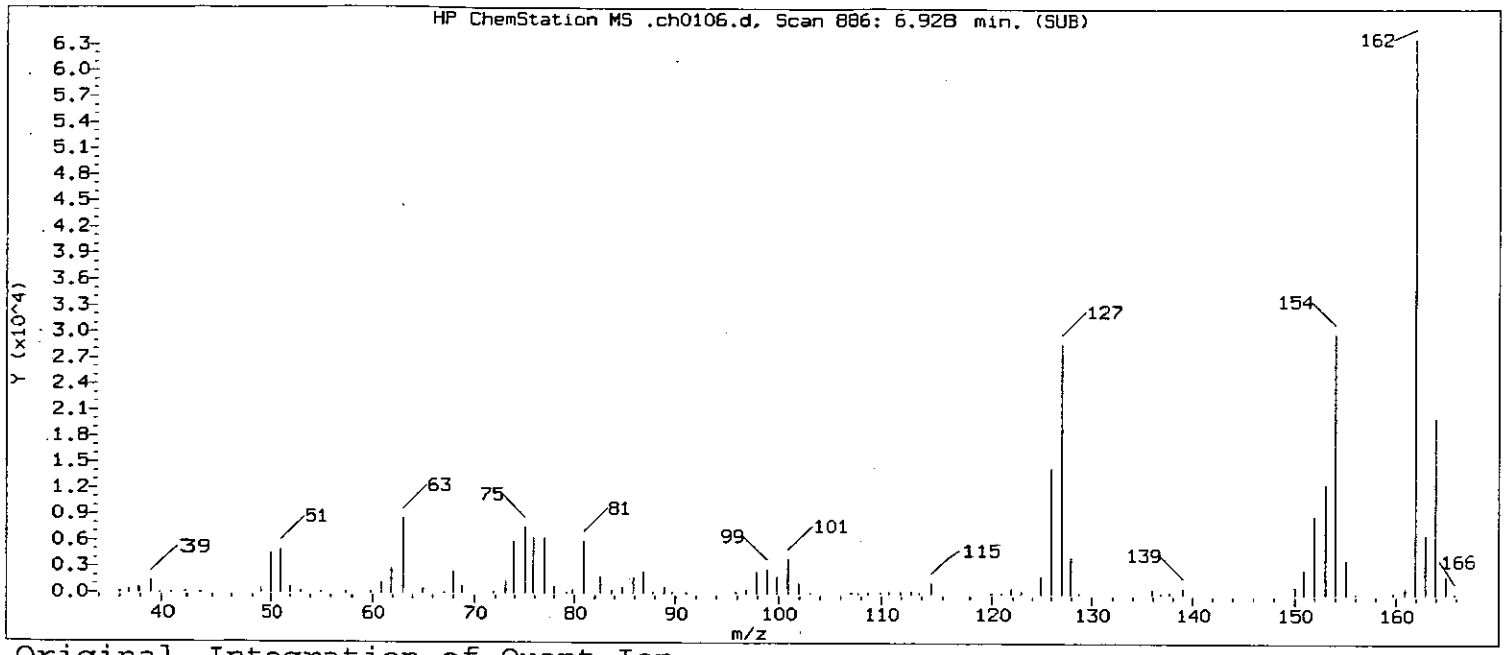
Compound Number : 65
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 863
Retention Time (minutes): 6.787
Quant Ion : 196
Area (flag) : 12512 M
Concentration (ng/ul) : 4.4209
Integration start scan : 861 Integration stop scan: 868
Y at integration start : -24 Y at integration end: -24

Reason for manual integration (circle one): missed peak improper integrati

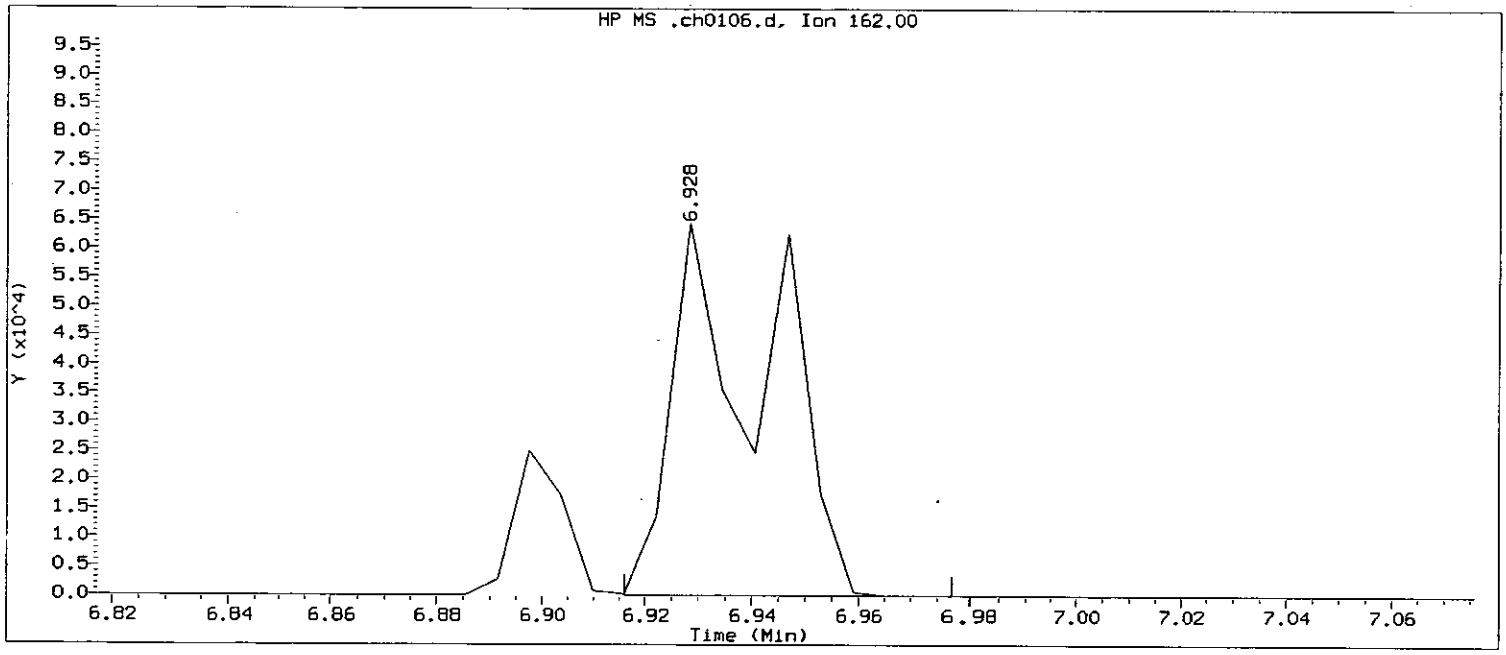
Analyst responsible for change: mac 8/5/07

GC/MS audit/management approval: 8336 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

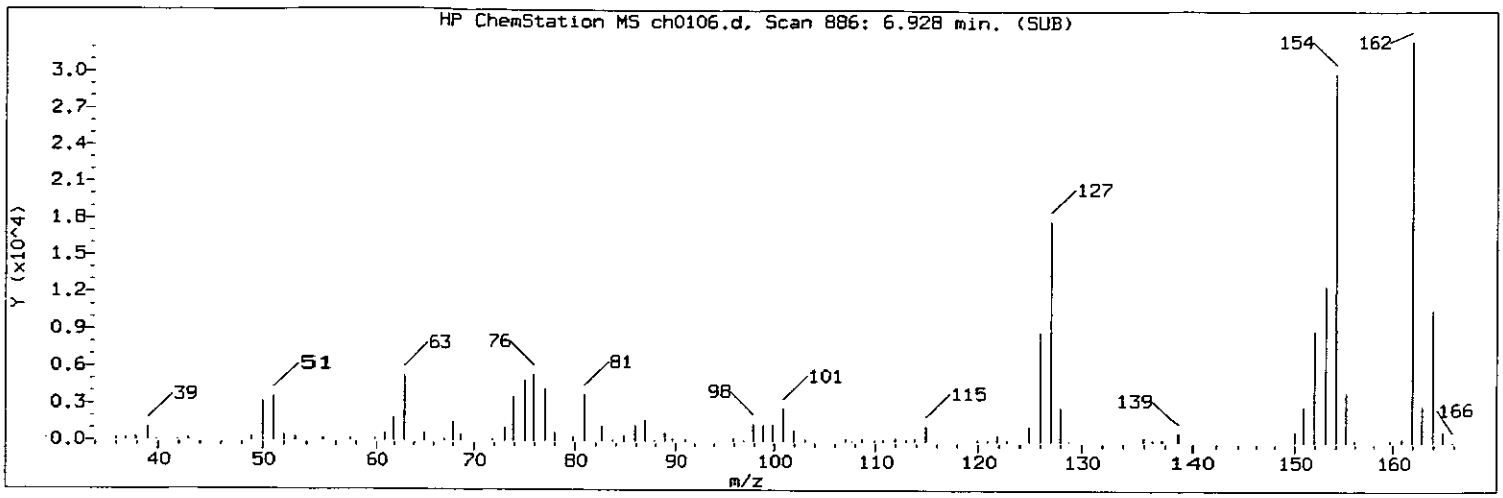
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 80787
Concentration (ng/ul) : 7.1274
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 0 Y at integration end: 0

mc(13) 8/15/07

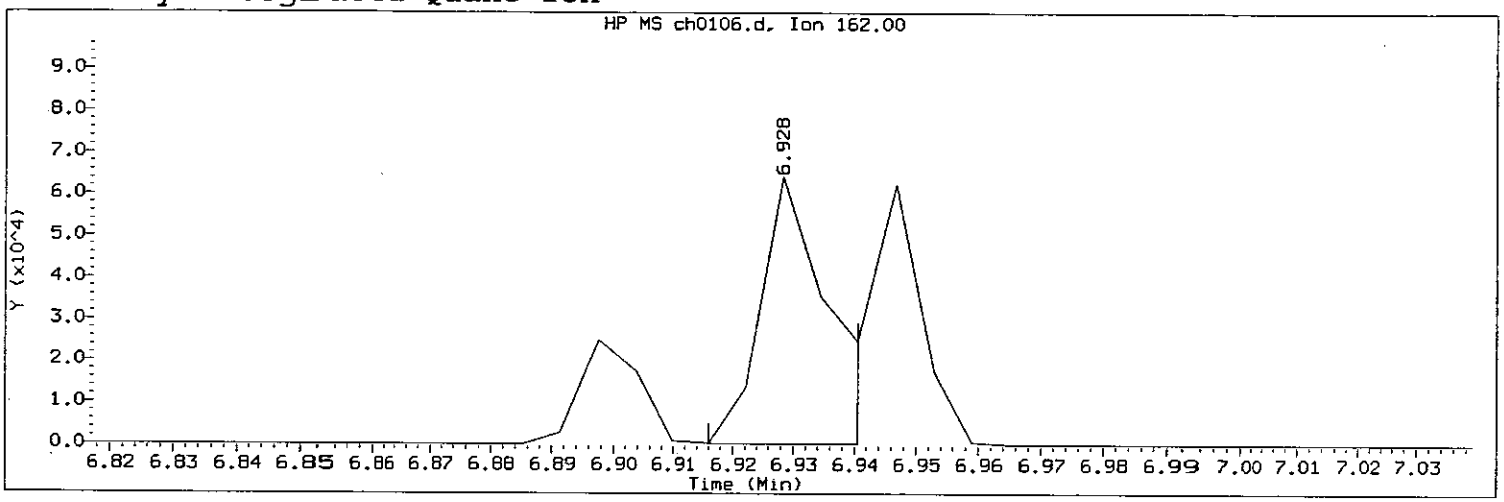
0335

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area (flag) : 50906 M
Concentration (ng/ul) : 4.9238
Integration start scan : 883 Integration stop scan: 887
Y at integration start : 109 Y at integration end: 109

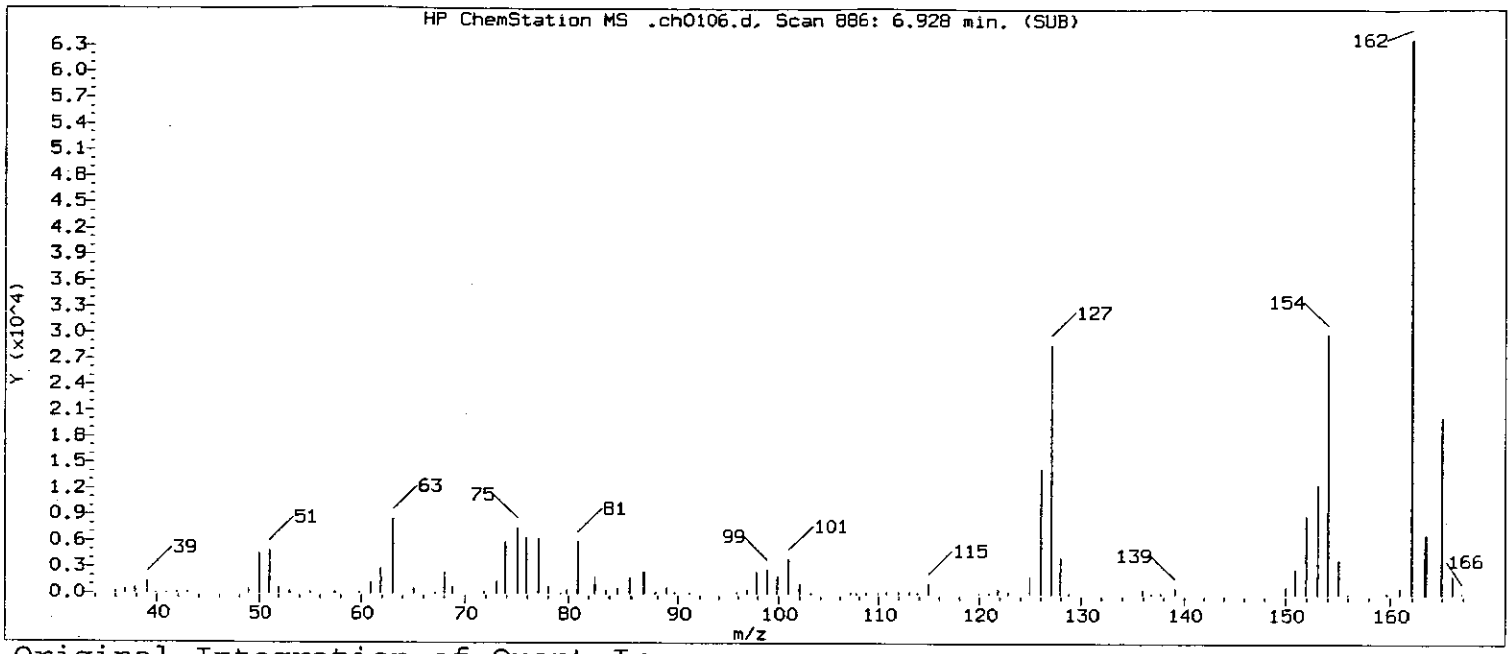
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac 8/5/07

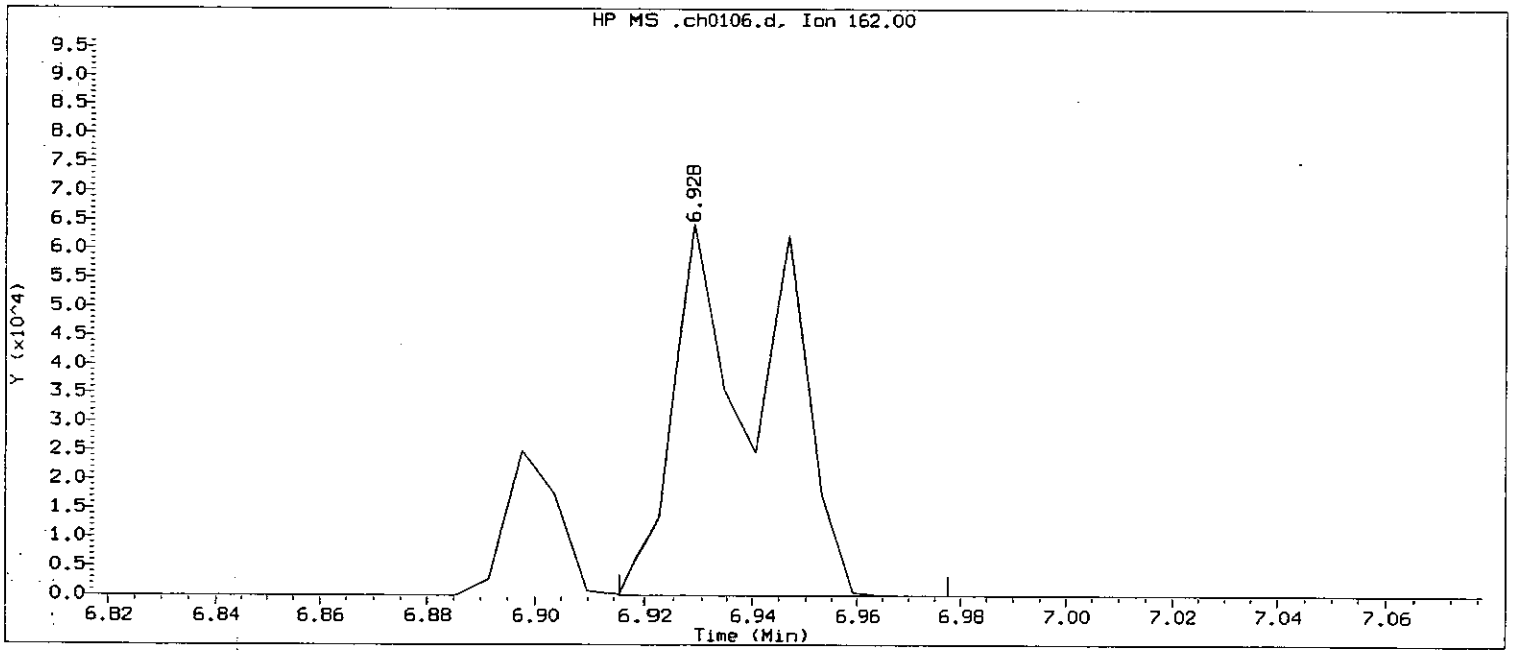
0336 8/6/07

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

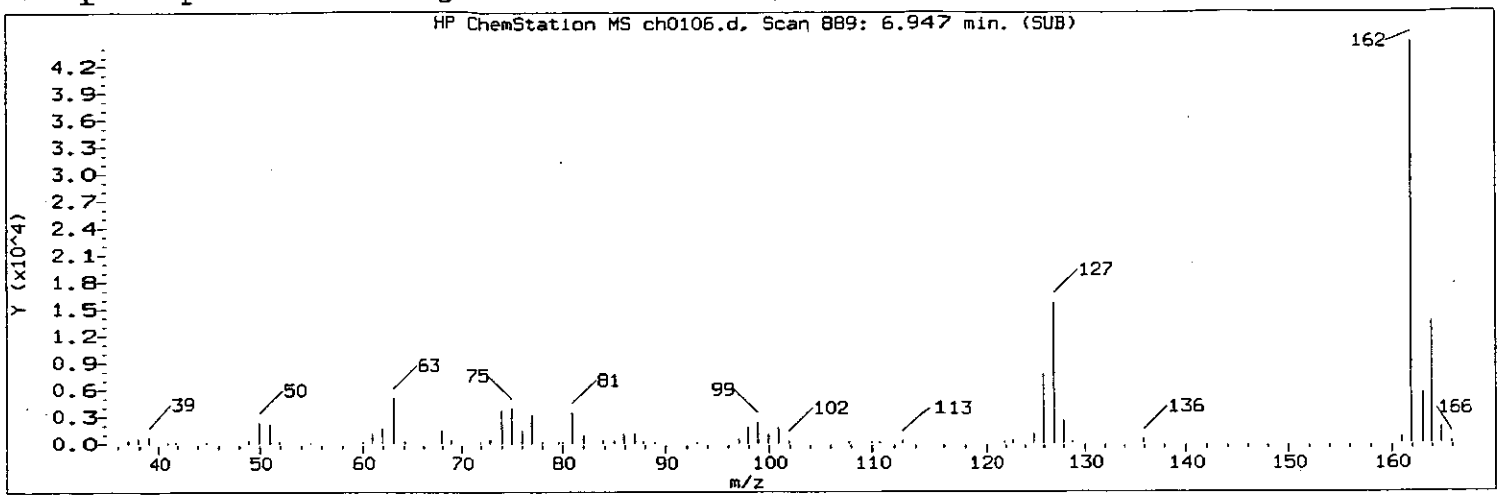
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 80787
Concentration (ng/ul) : 8.4969
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 0 Y at integration end: 0

mc 8/5/07

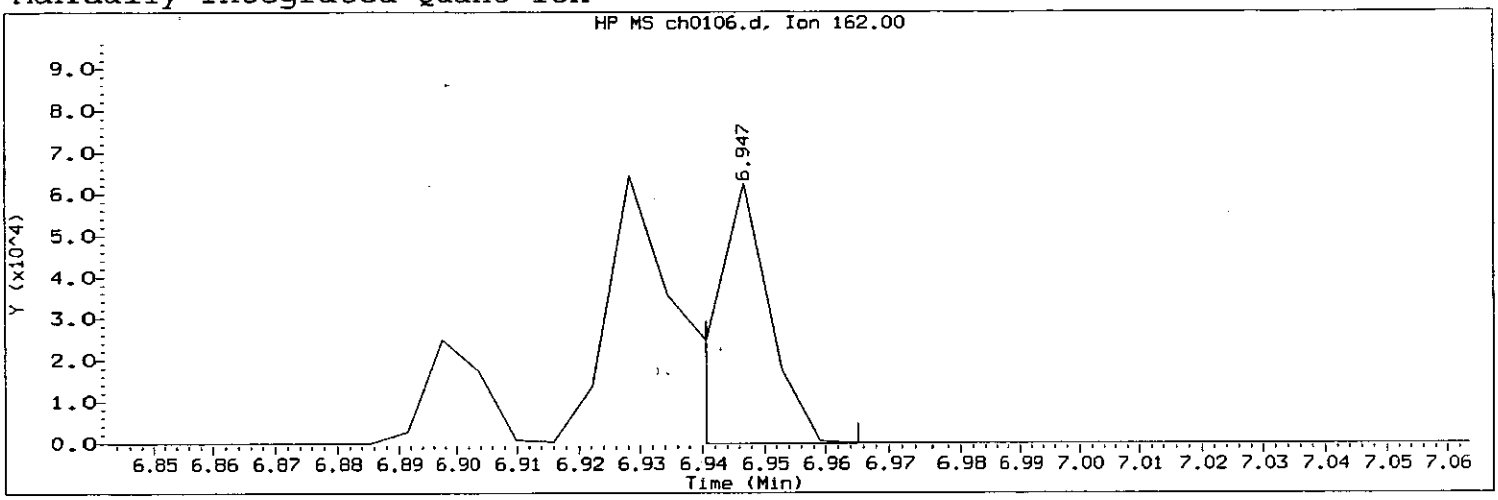
8337

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

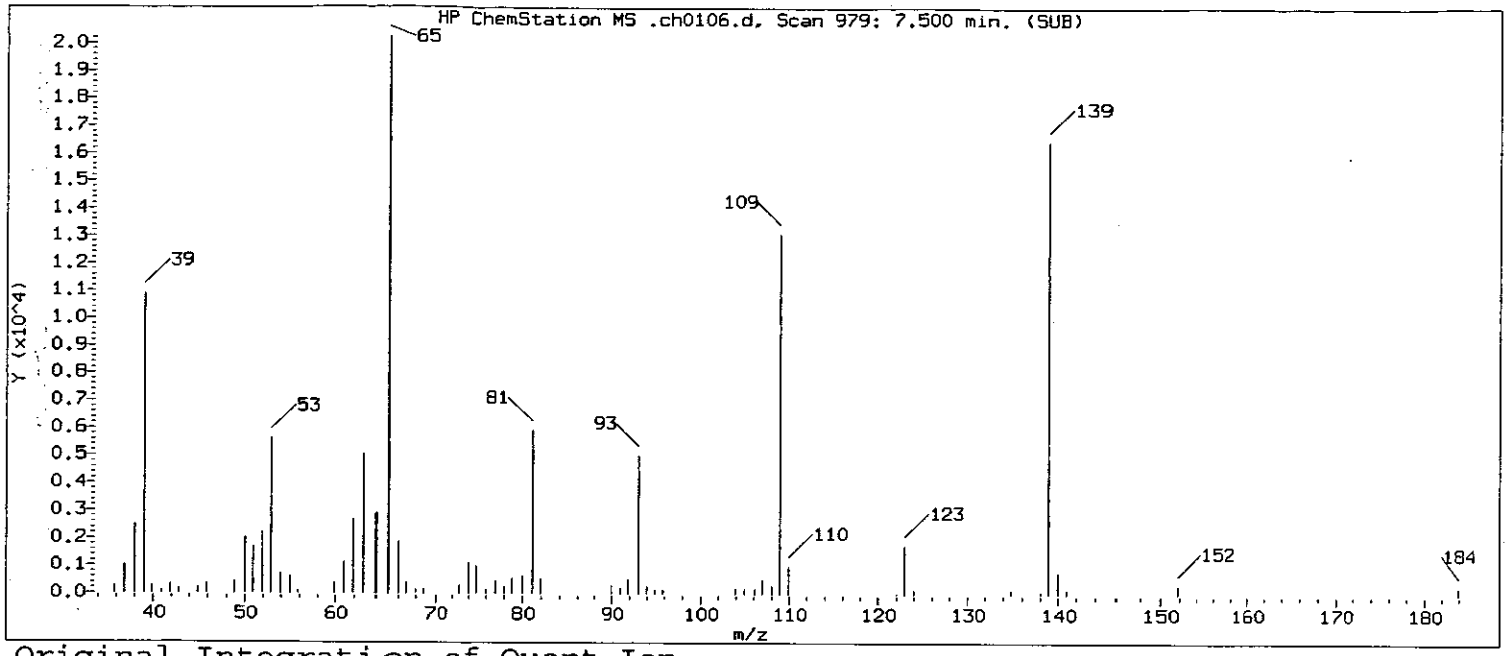
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 889
Retention Time (minutes): 6.947
Quant Ion : 162
Area (flag) : 39084 M
Concentration (ng/ul) : 4.8146
Integration start scan : 887 Integration stop scan: 891
Y at integration start : -133 Y at integration end: -133

Reason for manual integration (circle one): missed peak ~~improper integrati~~

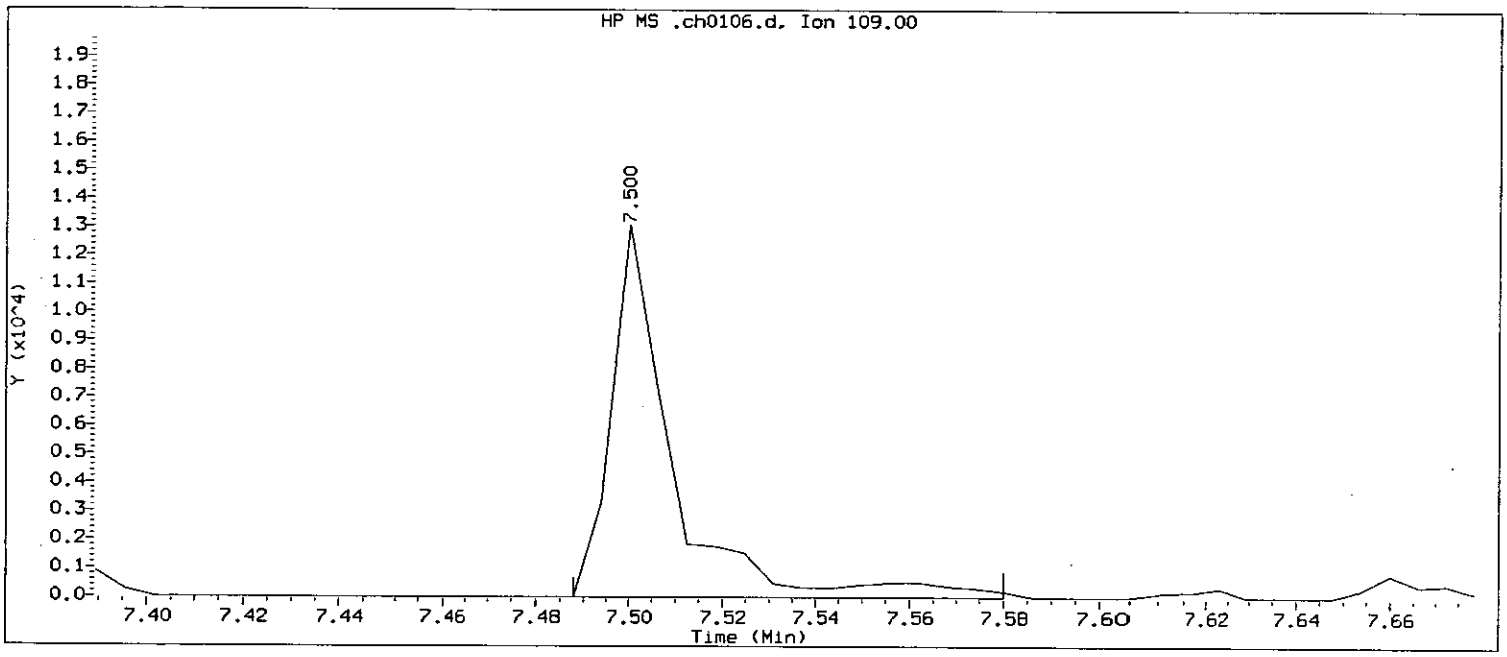
Analyst responsible for change: mc 8/5/07

GC/MS audit/management approval: 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

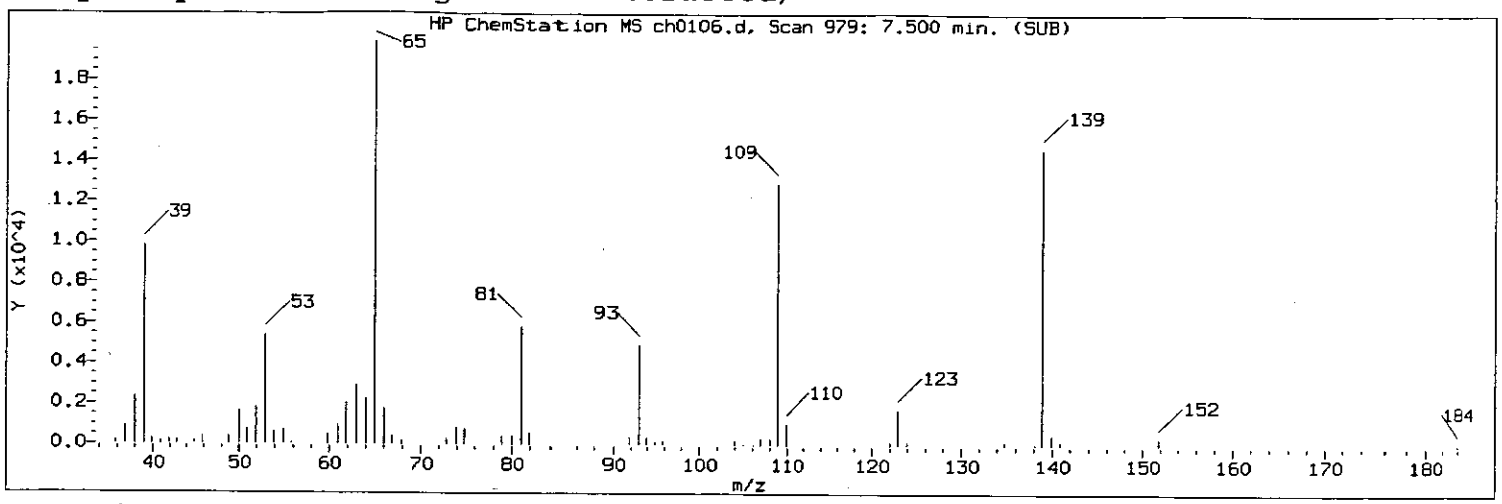
Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 979
Retention Time (minutes): 7.500
Quant Ion : 109
Area : 11883
Concentration (ng/ul) : 7.7641
Integration start scan : 976 Integration stop scan: 991
Y at integration start : 0 Y at integration end: 0

mc 8/15/07

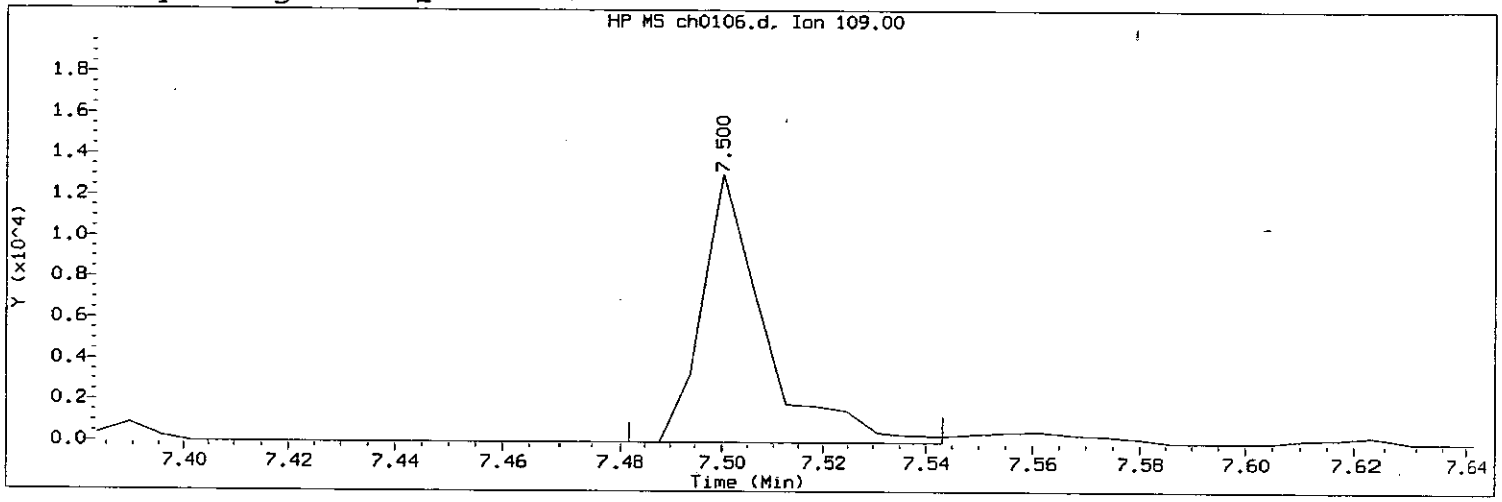
0339

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

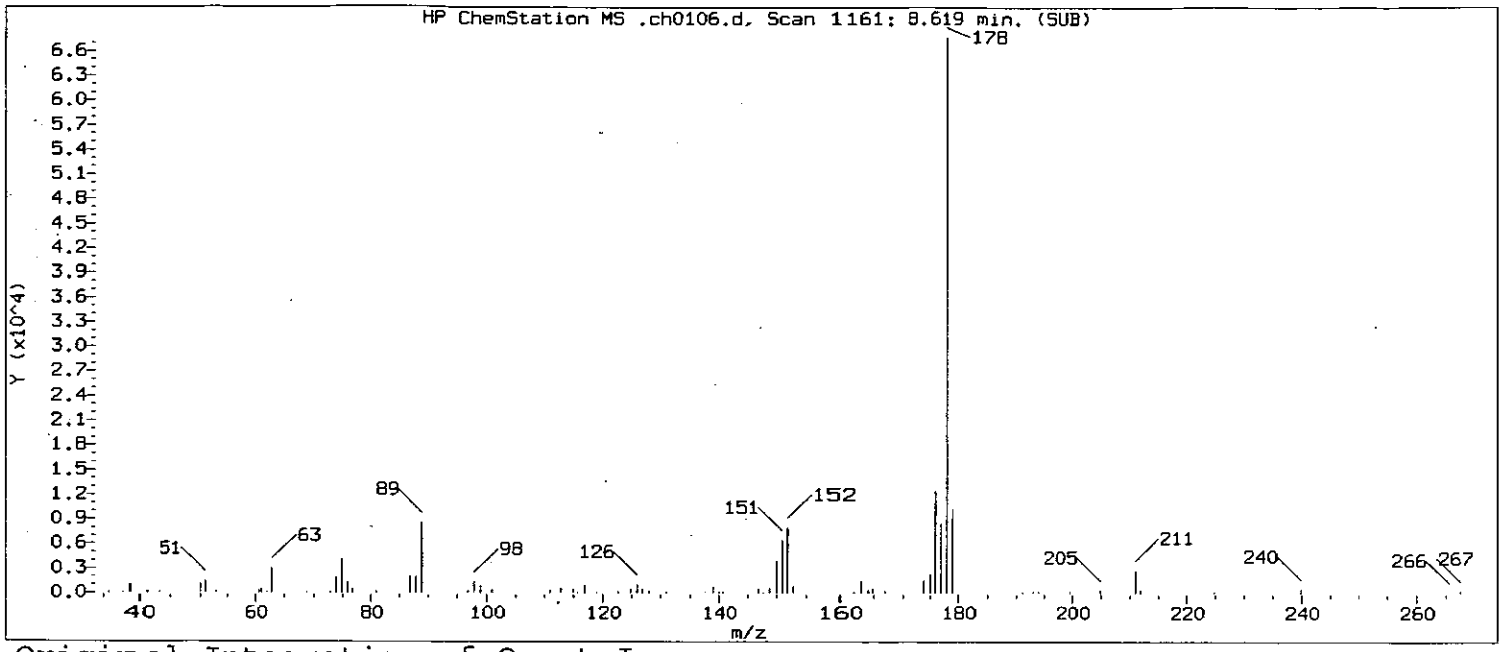
Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 979
Retention Time (minutes): 7.500
Quant Ion : 109
Area (flag) : 11054 M
Concentration (ng/ul) : 7.2879
Integration start scan : 975 Integration stop scan: 985
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integratic

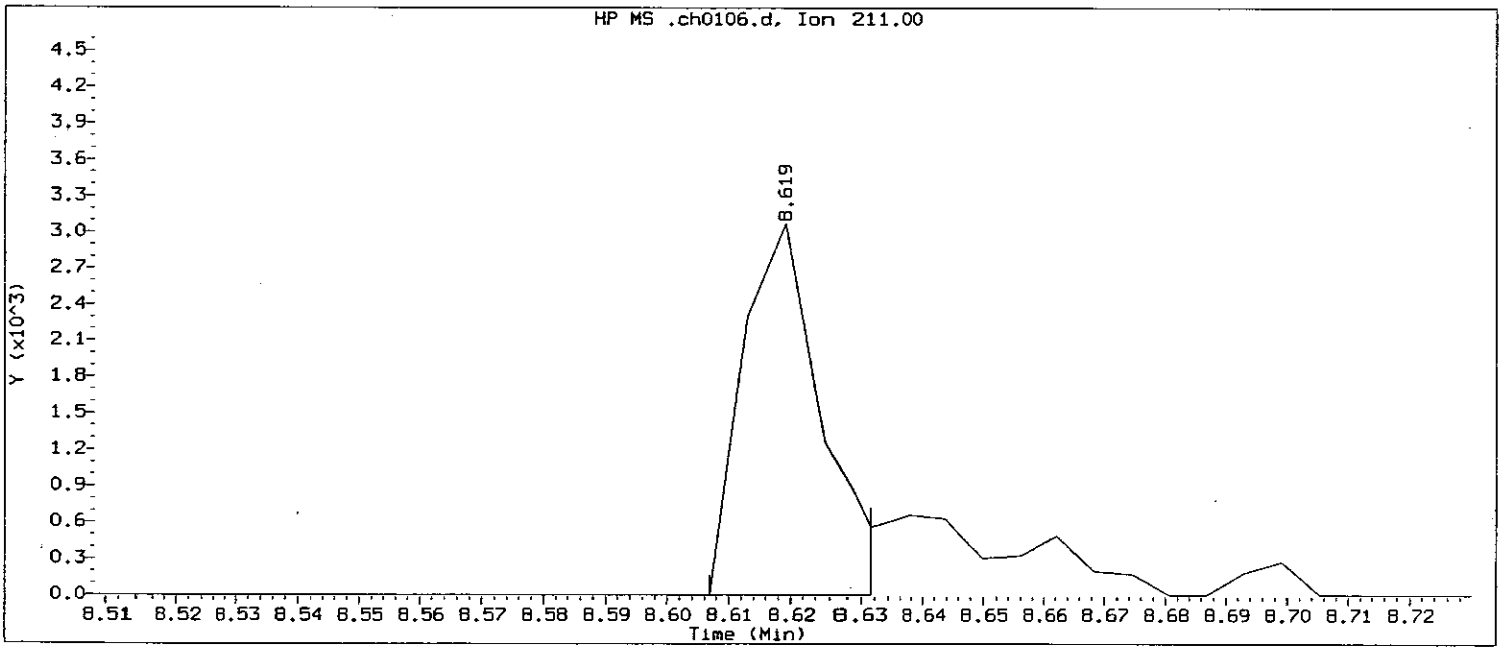
Analyst responsible for change: mc 8/5/07

GC/MS audit/management approval: 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

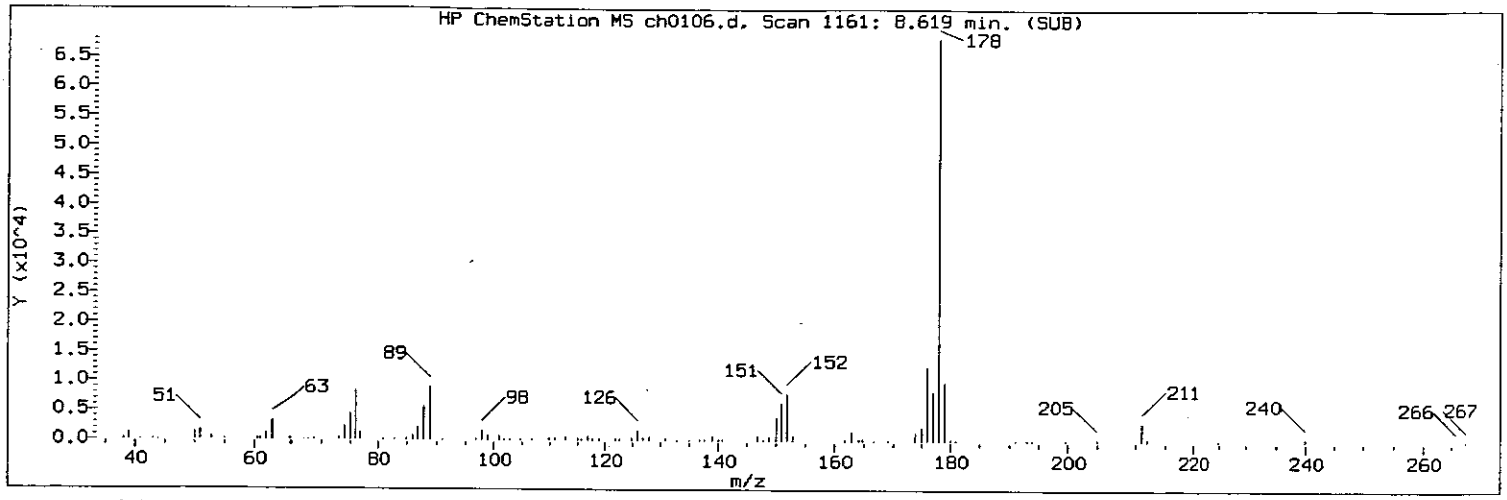
Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 122
Compound Name : Dinoseb
Scan Number : 1161
Retention Time (minutes) : 8.619
Quant Ion : 211
Area : 2551
Concentration (ng/ul) : 1.7991
Integration start scan : 1158 Integration stop scan: 1162
Y at integration start : 0 Y at integration end: 0

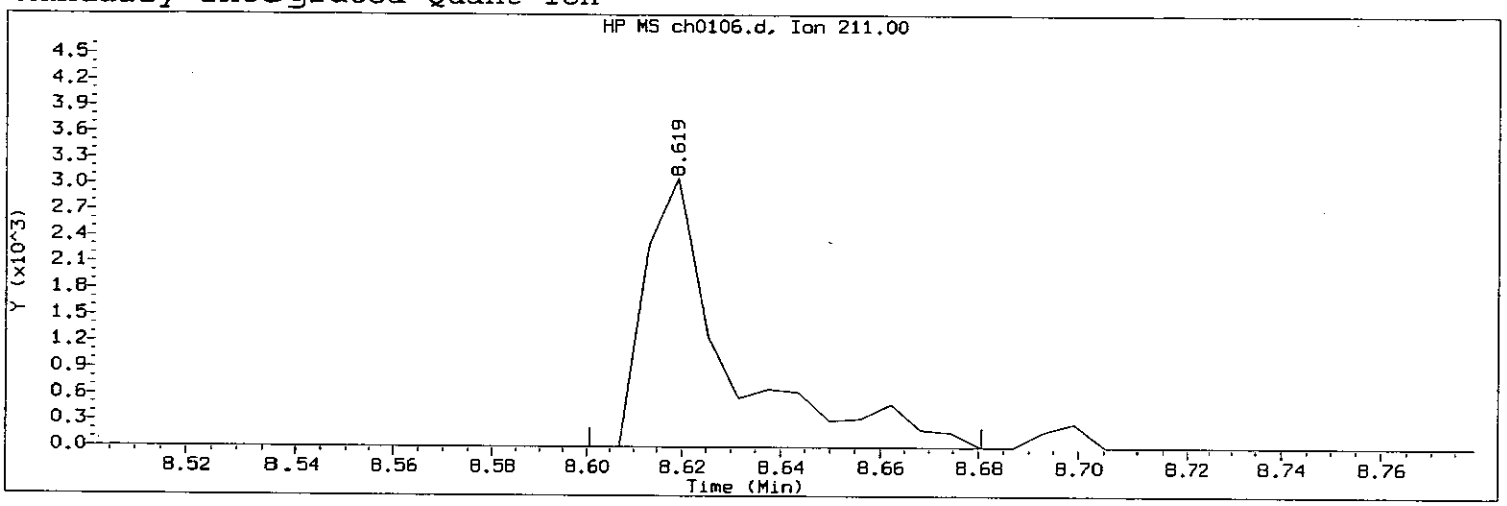
mc 8/5/07
8341

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2057

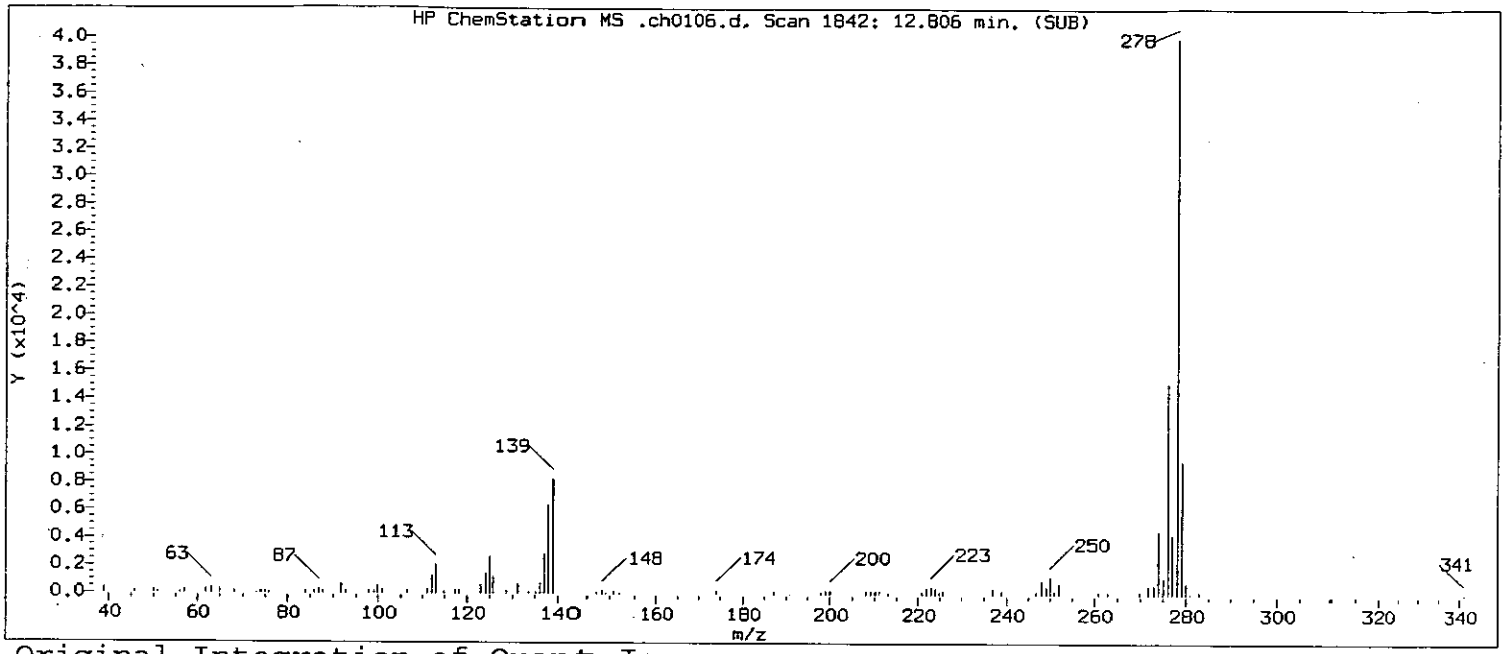
Compound Number : 122
Compound Name : Dinoseb
Scan Number : 1161
Retention Time (minutes): 8.619
Quant Ion : 211
Area (flag) : 3679 M
Concentration (ng/ul) : 2.5275
Integration start scan : 1157 Integration stop scan: 1170
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak ~~improper integrati~~

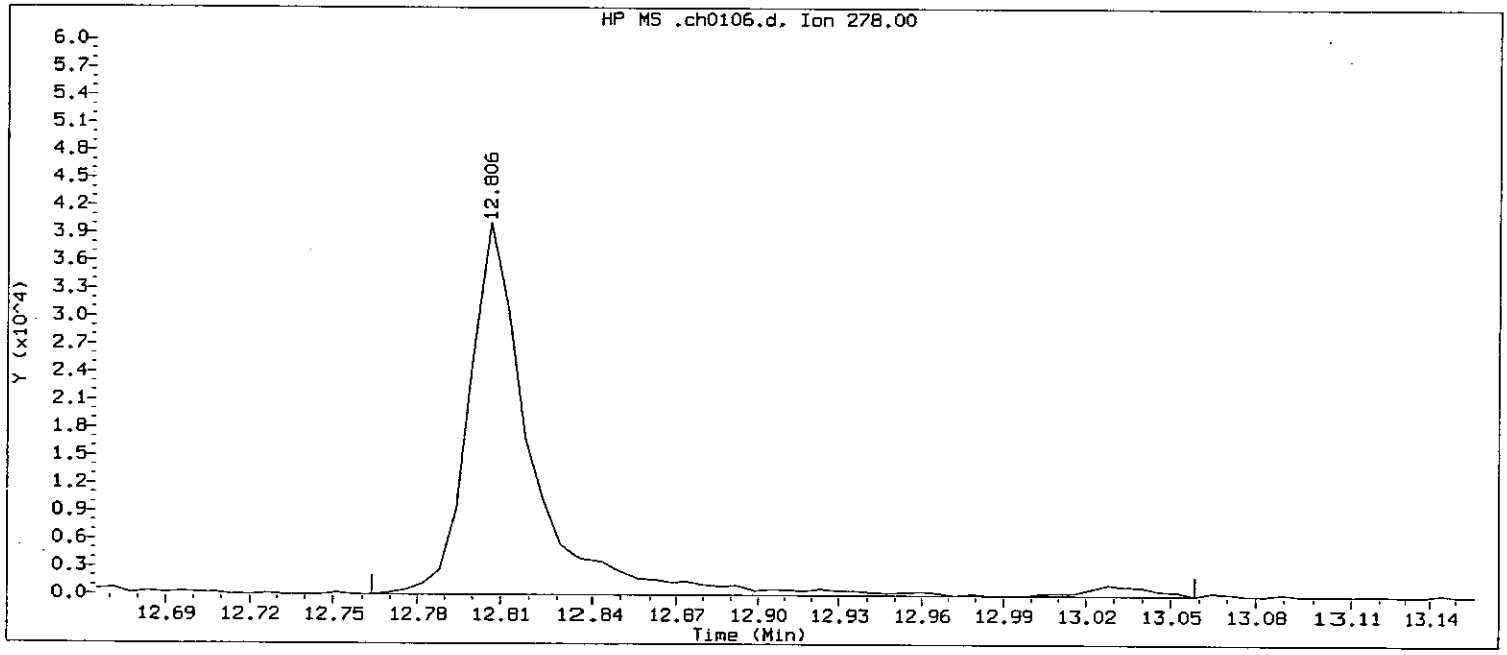
Analyst responsible for change: mc 8/5/07

GC/MS audit/management approval: 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: macO0013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:29
Date, time and analyst ID of latest file update: 05-Aug-2007 08:29 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

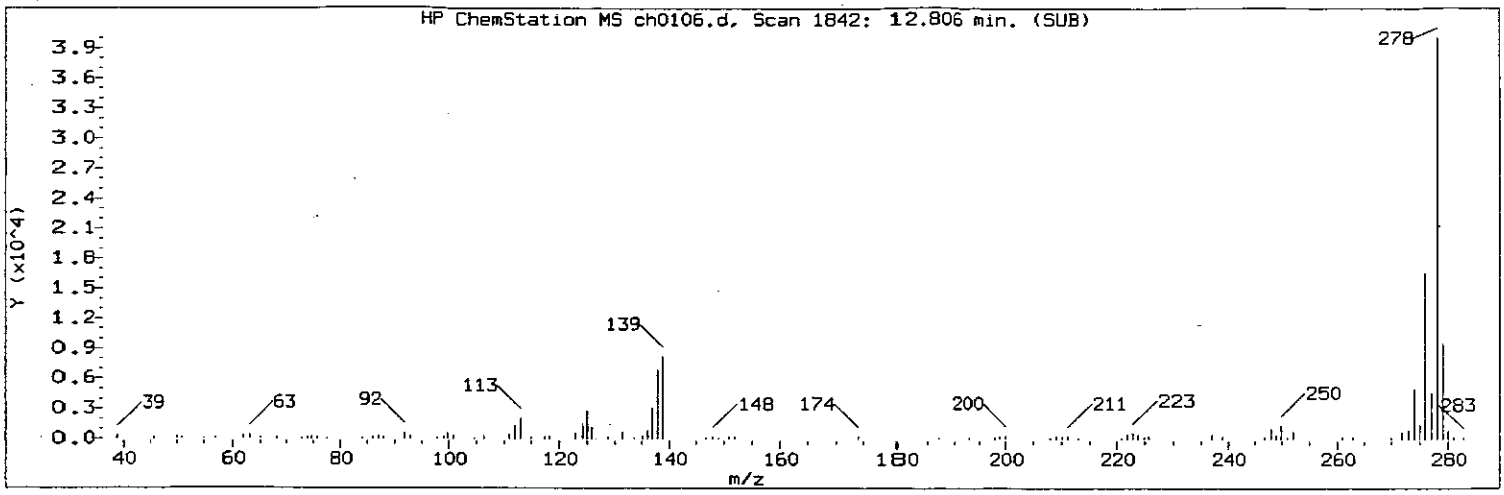
Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1842
Retention Time (minutes): 12.806
Quant Ion : 278
Area : 64364
Concentration (ng/ul) : 4.5271
Integration start scan : 1834 Integration stop scan: 1882
Y at integration start : 0 Y at integration end: 0

mac 8/15/07

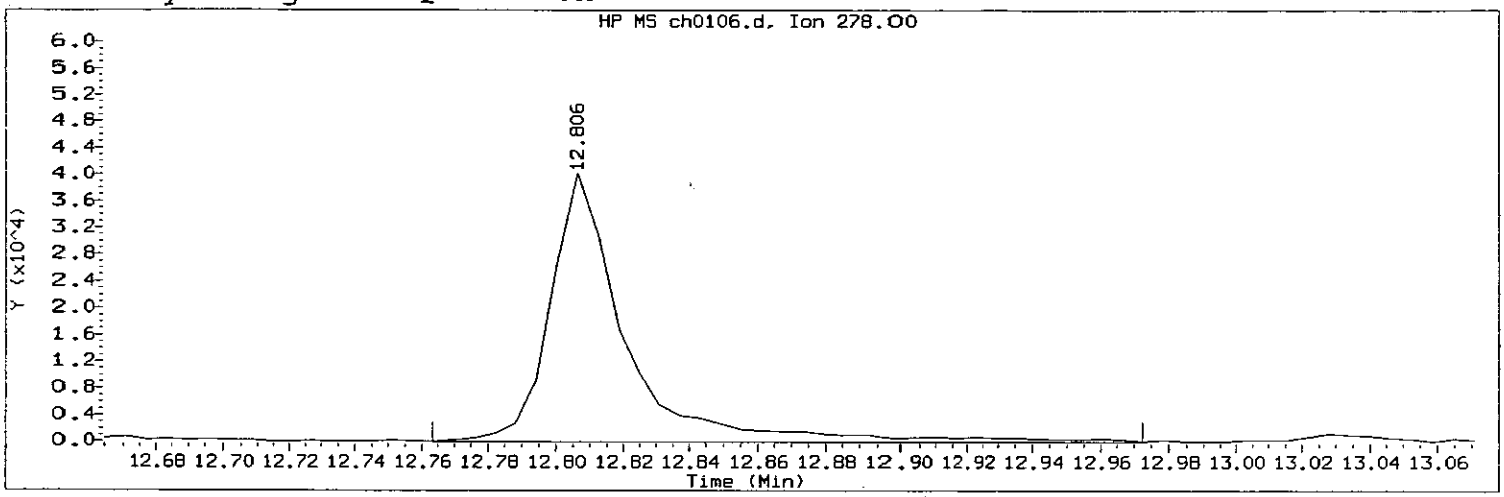
0343

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0106.d, generated on 08/05/2007 at 08:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0106.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:15 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:35
Date, time and analyst ID of latest file update: 05-Aug-2007 08:35 mac00013

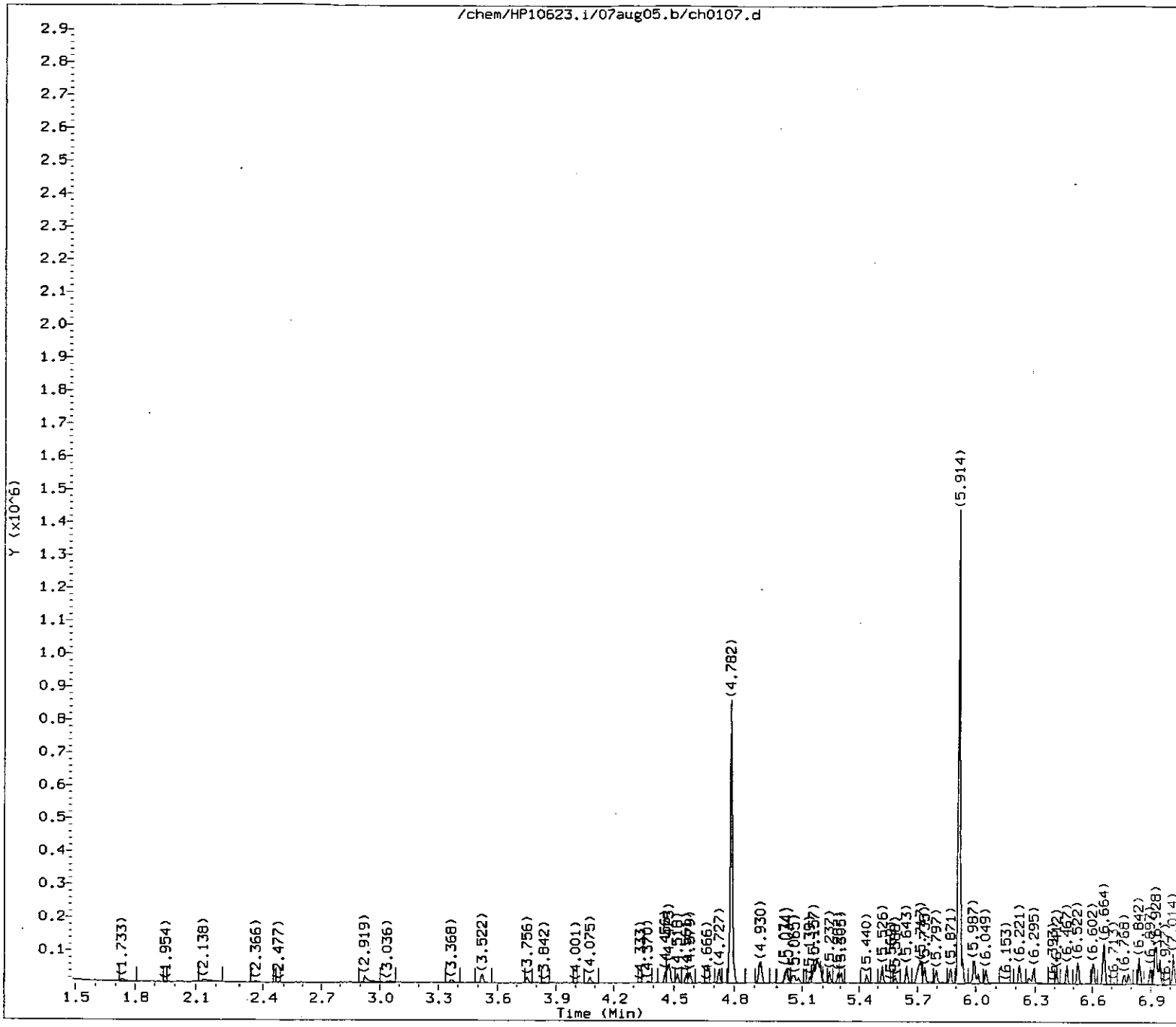
Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1842
Retention Time (minutes): 12.806
Quant Ion : 278
Area (flag) : 63197 M
Concentration (ng/ul) : 4.4572
Integration start scan : 1834 Integration stop scan: 1868
Y at integration start : -71 Y at integration end: -71

Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac(13) 8/5/07

GC/MS audit/management approval: 8/8/07



Quant Report

Target Revision 3.5

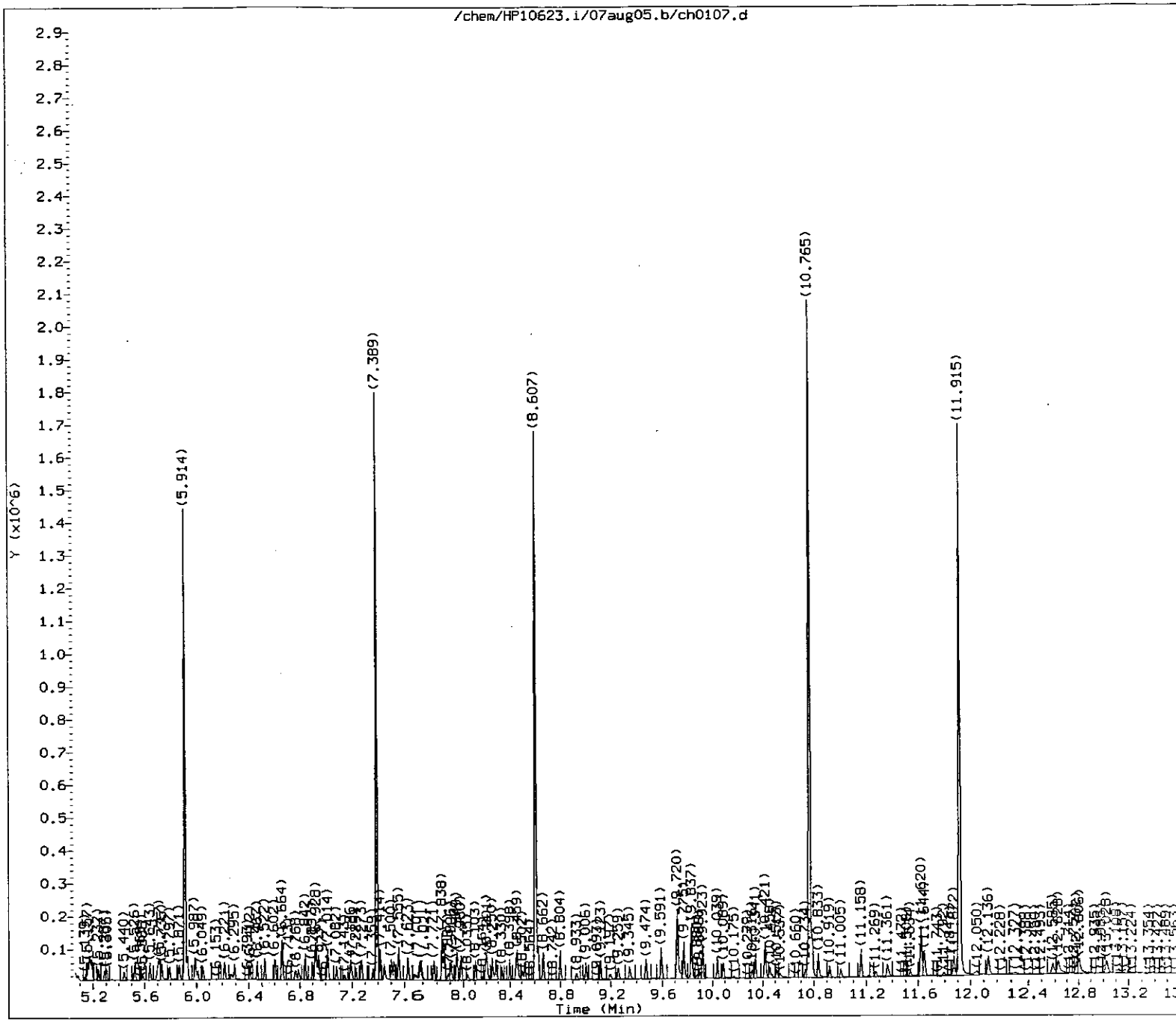
Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

8345

mac(13) 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

8346
mc(13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.733	88	2879	2.0336
2)	N-Nitrosodimethylamine	(1)	2.108	74	2798	1.2366
3)	Pyridine	(1)	2.138	79	6546	1.5653
5)	2-Picoline	(1)	2.919	93	7252	1.7322
15)	Phenol	(1)	4.469	94	9345	1.6814
16)	Aniline	(1)	4.475	93	12389	1.8692
18)	bis(2-Chloroethyl)ether	(1)	4.561	93	7086	1.7676
19)	2-Chlorophenol	(1)	4.579	128	6553	1.8060
20)	1,3-Dichlorobenzene	(1)	4.727	146	6848	1.8072
21)	1,4-Dichlorobenzene-d4	(1)	4.782	152	96102	40.0000
22)	1,4-Dichlorobenzene	(1)	4.801	146	7384	1.8691
23)	Benzyl alcohol	(1)	4.924	108	4806	1.8282
24)	1,2-Dichlorobenzene	(1)	4.930	146	7079	1.8940
25)	2-Methylphenol	(1)	5.034	108	6181	1.6300
26)	2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	14689	2.1502
27)	bis(2-Chloroisopropyl)ether	(1)	5.065	45	14689	2.1502
29)	Acetophenone	(1)	5.157	105	10539	1.8573
30)	N-Nitroso-di-n-propylamine	(1)	5.170	70	6064	1.8451
31)	4-Methylphenol	(1)	5.176	108	7065	1.6622
33)	o-Toluidine	(1)	5.188	106	11745	1.7938
34)	Hexachloroethane	(1)	5.237	117	2718	1.8856
36)	Nitrobenzene	(2)	5.305	77	7444	1.6633
38)	Isophorone	(2)	5.526	82	16157	1.8639
39)	2-Nitrophenol	(2)	5.588	139	2127	1.4201
40)	2,4-Dimethylphenol	(2)	5.643	107	7139	1.7285
42)	bis(2-Chloroethoxy)methane	(2)	5.735	93	8712	1.7389
43)	Benzoic acid	(2)	5.705	105	20294	17.8685
44)	2,4-Dichlorophenol	(2)	5.797	162	5470	1.6932
45)	1,2,4-Trichlorobenzene	(2)	5.871	180	5810	1.7918
46)	Naphthalene-d8	(2)	5.914	136	417485	40.0000
47)	Naphthalene	(2)	5.932	128	21608	1.8958
48)	4-Chloroaniline	(2)	5.987	127	8501	1.7812
49)	2,6-Dichlorophenol	(2)	5.994	162	5353	1.7212
51)	Hexachlorobutadiene	(2)	6.049	225	3274	1.8030
52)	Quinoline	(2)	6.221	129	14903	1.9253
53)	Caprolactam	(2)	6.264	113	2100	1.5673
55)	4-Chloro-3-methylphenol	(2)	6.412	107	6699	1.8194
58)	2-Methylnaphthalene	(2)	6.522	142	14157	1.8508
60)	1-Methylnaphthalene	(2)	6.608	142	14097	1.8609
61)	Hexachlorocyclopentadiene	(3)	6.658	237	8245	4.5235
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	6256	1.9144
64)	2,4,6-Trichlorophenol	(3)	6.768	196	3291M	1.4714
65)	2,4,5-Trichlorophenol	(3)	6.787	196	4367M	1.6531

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.922	154	19676	2.0417
69) Diphenyl	(3)	6.922	154	19676	2.0417
70) 1,1'-Biphenyl	(3)	6.922	154	19676	2.0417
71) 2-Chloronaphthalene	(3)	6.928	162	19703M	2.0413
72) 1-Chloronaphthalene	(3)	6.947	162	15252M	2.0125
73) Diphenyl ether	(3)	7.014	170	10498	1.9222
74) 2-Nitroaniline	(3)	7.020	138	3088	1.4136
77) Dimethylphthalate	(3)	7.186	163	17762	1.9599
79) 2,6-Dinitrotoluene	(3)	7.186	165	2834	1.5085
80) Acenaphthylene	(3)	7.273	152	23108	1.8807
81) 3-Nitroaniline	(3)	7.359	138	2995	1.4364
82) Acenaphthene-d10	(3)	7.389	164	273470	40.0000
83) Acenaphthene	(3)	7.414	153	14249	1.8486
84) 2,4-Dinitrophenol	(3)	7.445	184	4872	19.6068
85) Pentachlorobenzene	(3)	7.525	250	5902	1.8762
86) 4-Nitrophenol	(3)	7.500	109	6673	7.5580
87) Dibenzofuran	(3)	7.562	168	22760	2.0223
88) 2,4-Dinitrotoluene	(3)	7.555	165	3265	1.3656
90) 1-Naphthylamine	(3)	7.623	143	15341	1.8897
91) 2,3,4,6-Tetrachlorophenol	(3)	7.660	232	2606	1.4070
92) 2-Naphthylamine	(3)	7.691	143	15762	1.9132
93) Diethylphthalate	(3)	7.777	149	17833	1.9572
94) Fluorene	(3)	7.838	166	16968	1.8435
96) 4-Chlorophenyl-phenylether	(3)	7.857	204	8570	2.0127
98) 4-Nitroaniline	(3)	7.857	138	2963	1.2914
99) 4,6-Dinitro-2-methylphenol	(4)	7.887	198	1997	10.0623
102) N-Nitrosodiphenylamine	(4)	7.949	169	13353	1.8651
103) 1,2-Diphenylhydrazine	(4)	7.980	77	19633	1.7863
108) Phorate	(4)	8.201	75	9846	1.5761
110) 4-Bromophenyl-phenylether	(4)	8.250	248	4233	1.6255
112) Hexachlorobenzene	(4)	8.281	284	5964	2.0835
116) Pentachlorophenol	(4)	8.453	266	5275	3.1017
120) Phenanthrene-d10	(4)	8.607	188	522389	40.0000
121) Phenanthrene	(4)	8.625	178	27874	1.9581
122) Dinoseb	(4)	8.619	211	938M	9.0782
124) Anthracene	(4)	8.662	178	27400	1.8659
125) Carbazole	(4)	8.804	167	26039	1.8695
126) Methyl parathion	(4)	8.927	109	2606	1.0897
127) Ronnel	(4)	9.006	285	5952	1.6604
128) Di-n-butylphthalate	(4)	9.123	149	23725	1.4908
129) Parathion	(4)	9.252	109	1715	1.0291
134) Fluoranthene	(4)	9.591	202	28052	1.7589
135) Benzidine	(5)	9.720	184	79832	8.9137

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

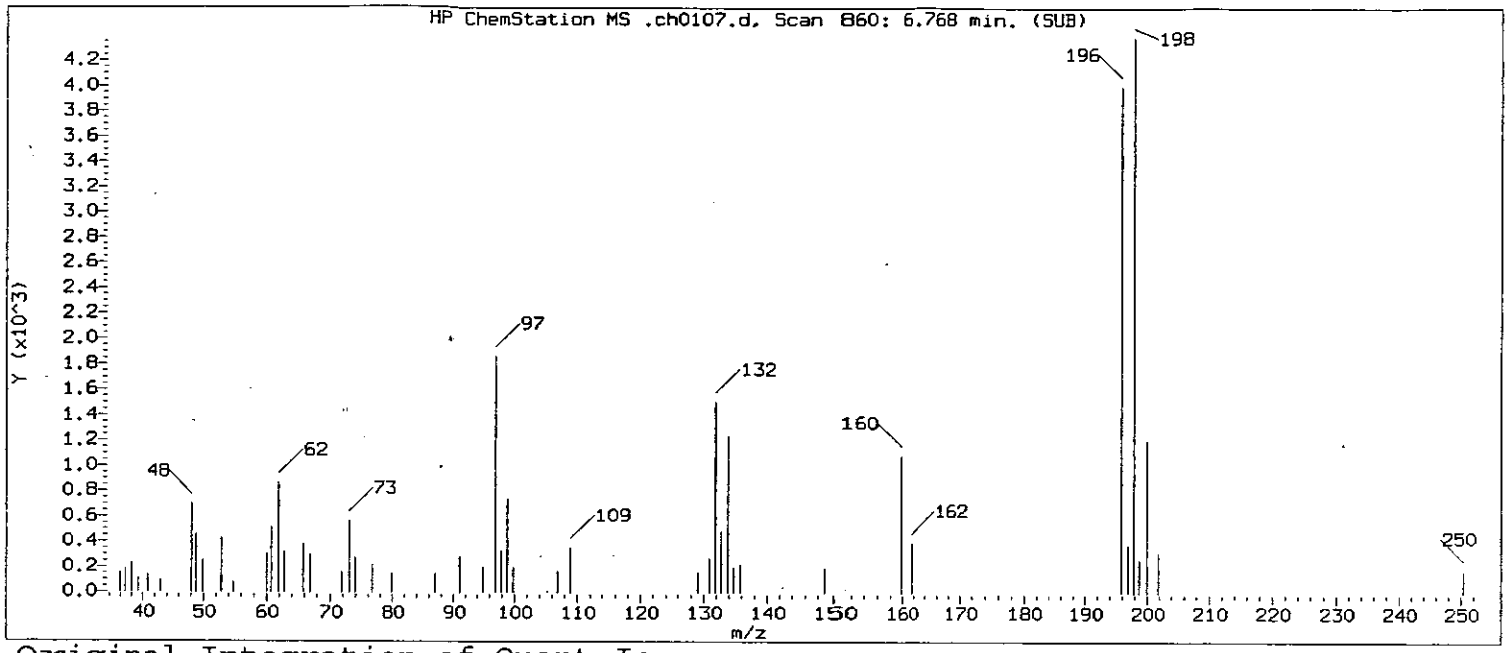
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

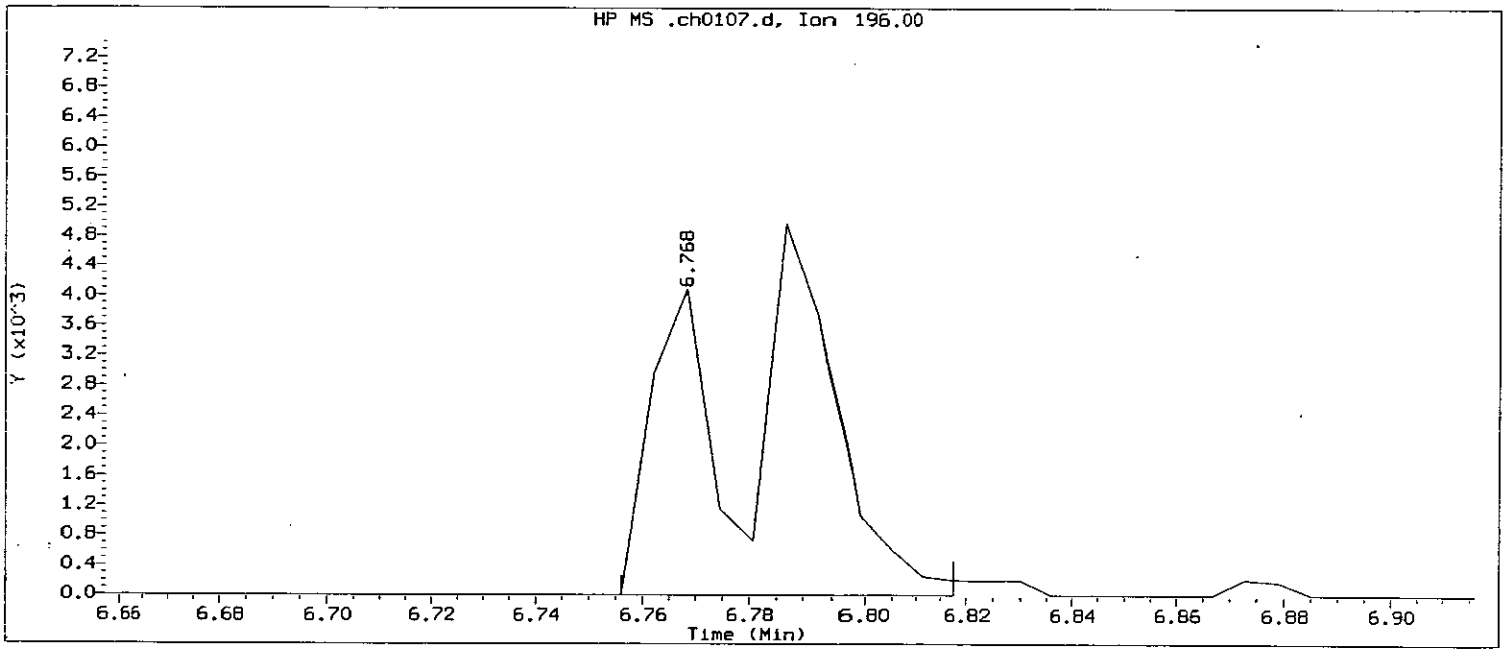
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.775	202	31262	1.8052
143) Butylbenzylphthalate	(5)	10.341	149	10183	1.3327
145) 3,3'-Dichlorobenzidine	(5)	10.753	252	9175	1.5672
146) Benzo(a)anthracene	(5)	10.759	228	29495	1.8850
147) Hexabromobenzene	(5)	10.771	552	646M	1.4372
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.759	231	5106	1.7410
149) Chrysene-d12	(5)	10.765	240	554112	40.0000
150) Chrysene	(5)	10.790	228	32215	2.0863
151) bis(2-Ethylhexyl)phthalate	(5)	10.833	149	14520	1.3743
152) 6-Methylchrysene	(5)	11.158	242	17424	1.5759
156) Di-n-octylphthalate	(6)	11.361	149	19393	2.7709
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.620	256	12108	1.6486
158) Benzo(b)fluoranthene	(6)	11.620	252	25487	1.7052
159) Benzo(k)fluoranthene	(6)	11.644	252	30954	1.8427
160) Benzo(a)pyrene	(6)	11.872	252	27097	1.8448
161) Perylene-d12	(6)	11.915	264	445046	40.0000
162) 3-Methylcholanthrene	(6)	12.136	268	12547	1.5642
166) Dibenz(a,h)acridine	(6)	12.585	279	15714	1.4277
167) Dibenz(a,j)acridine	(6)	12.628	279	22662	1.8415
168) Indeno(1,2,3-cd)pyrene	(6)	12.782	276	26908	1.6292
169) Dibenz(a,h)anthracene	(6)	12.806	278	23293	1.7611
170) Benzo(g,h,i)perylene	(6)	13.028	276	24349	1.7582
9) 2-Fluorophenol	(1)	3.522	112	6244	1.8104
13) Phenol-d5	(1)	4.456	99	8090	1.7259
14) Phenol-d6	(1)	4.456	99	8090	1.7259
35) Nitrobenzene-d5	(2)	5.287	82	6947	1.7070
66) 2-Fluorobiphenyl	(3)	6.842	172	16537	1.9214
104) 2,4,6-Tribromophenol	(3)	8.035	330	1744	1.4430
138) Terphenyl-d14	(5)	9.923	244	20087	1.7611

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

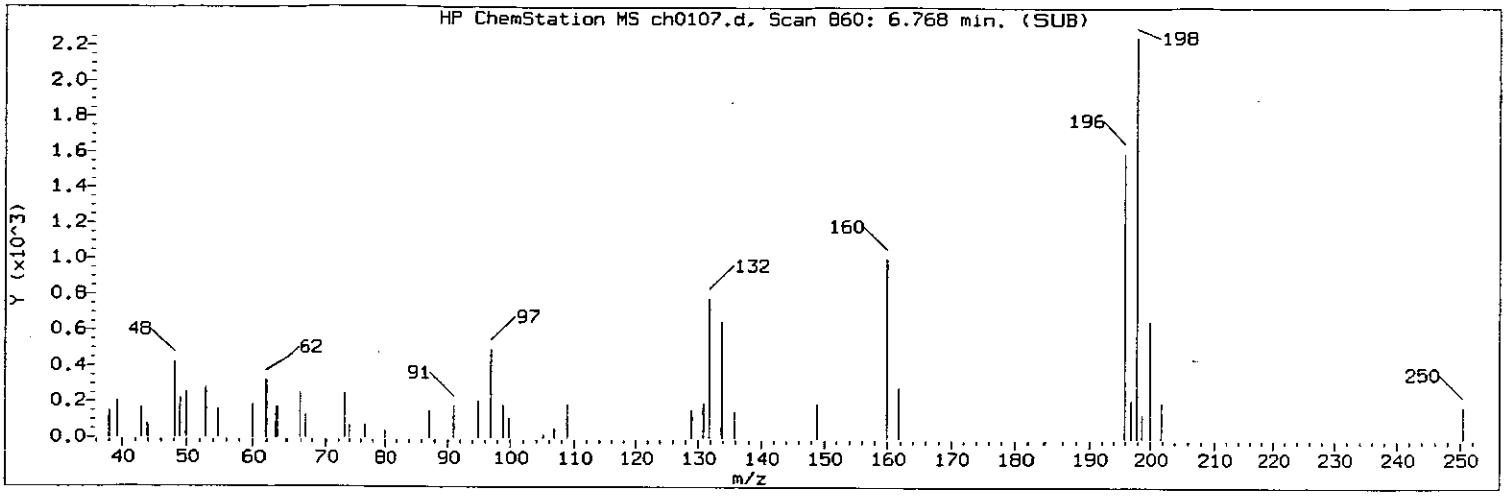
Compound Number : 64
Compound Name : 2,4,6-Trichlorophenol
Scan Number : 860
Retention Time (minutes): 6.768
Quant Ion : 196
Area : 7246
Concentration (ng/ul) : 3.2398
Integration start scan : 857 Integration stop scan: 867
Y at integration start : 0 Y at integration end: 0

mac 13 8/5/07

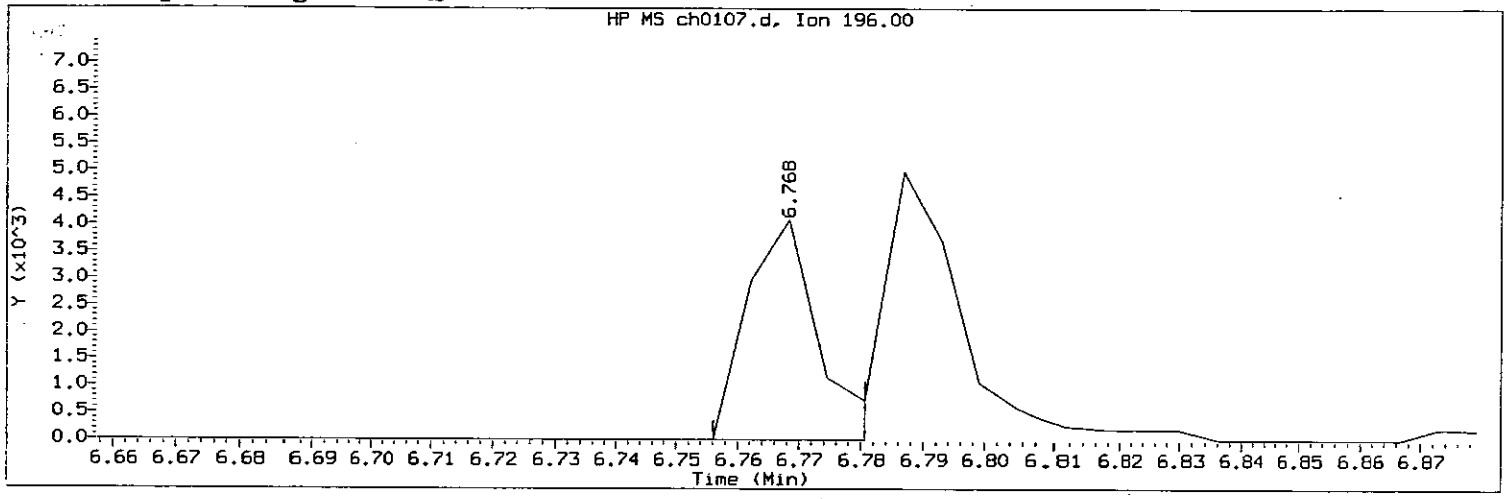
8350

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

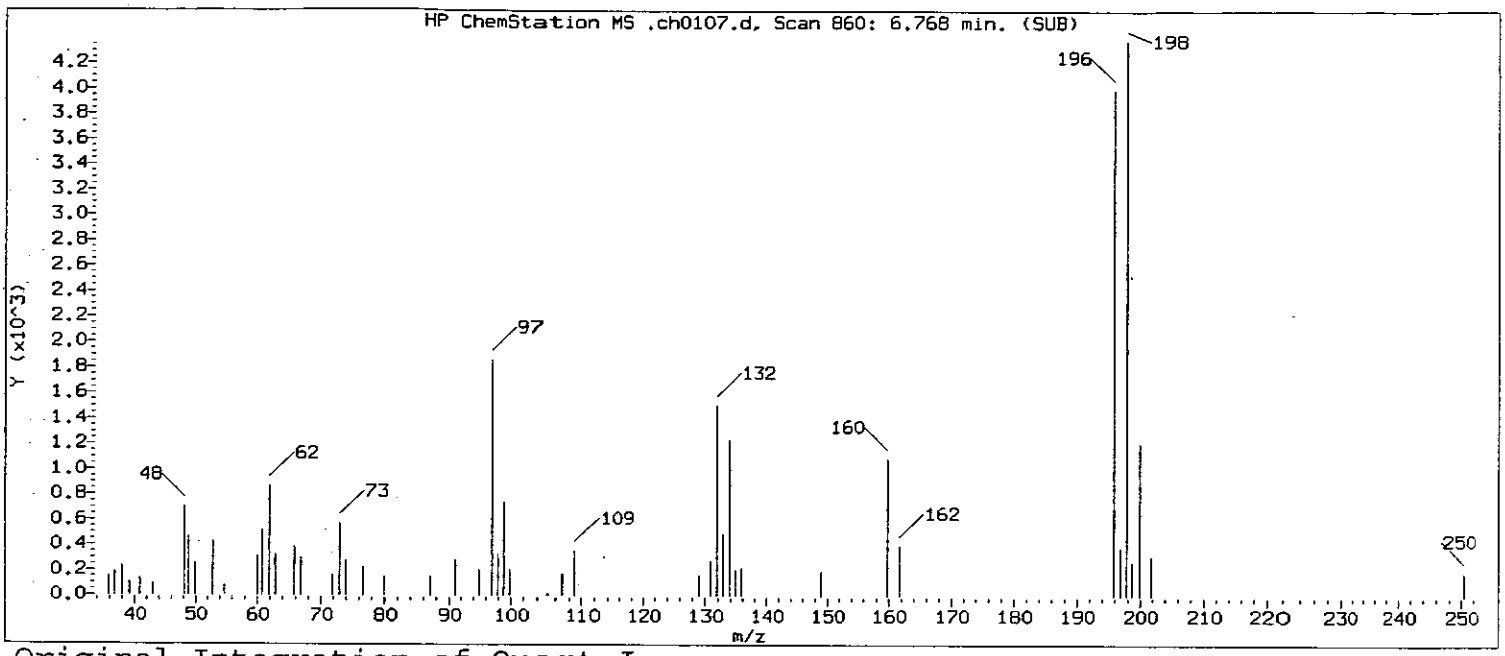
Compound Number	: 64
Compound Name	: 2,4,6-Trichlorophenol
Scan Number	: 860
Retention Time (minutes)	: 6.768
Quant Ion	: 196
Area (flag)	: 3291 M
Concentration (ng/ul)	: 1.4714
Integration start scan	: 857 Integration stop scan: 861
Y at integration start	: 4 Y at integration end: 4

Reason for manual integration (circle one): missed peak ~~improper integrati~~

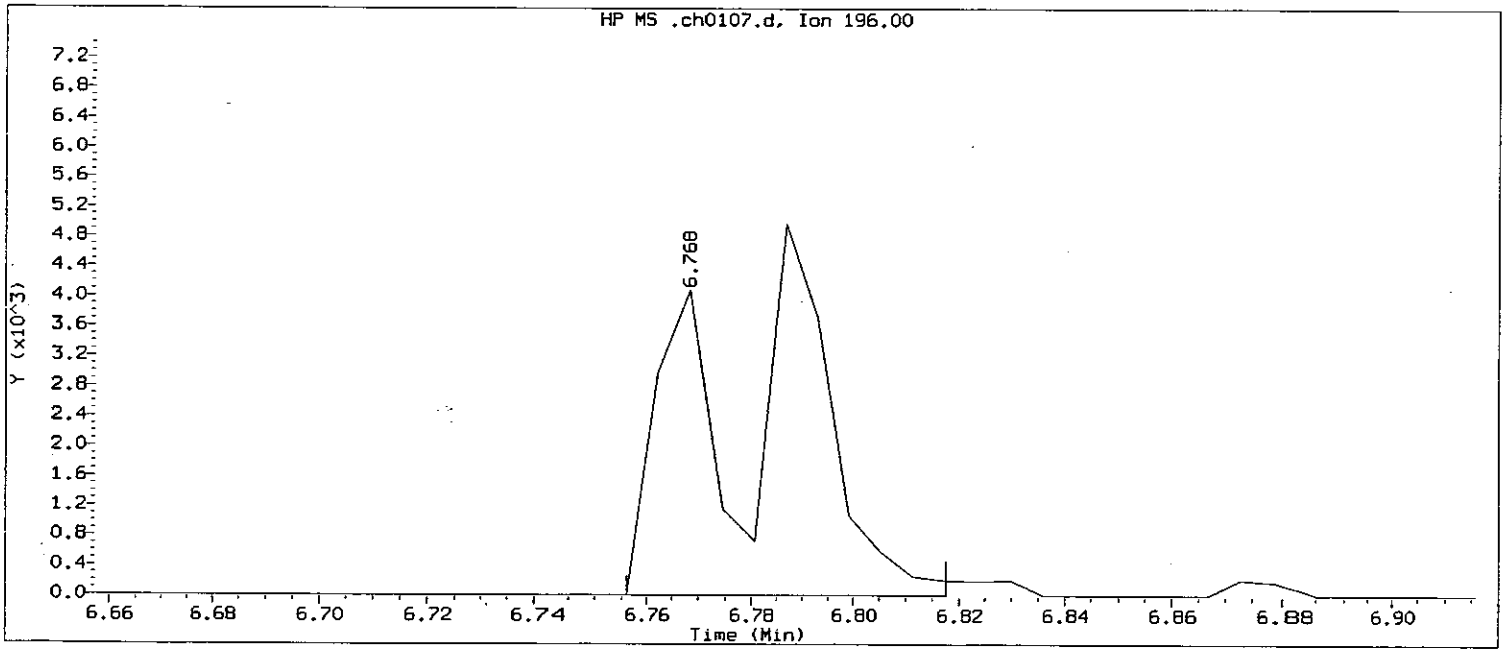
Analyst responsible for change: mac ③ 8/5/07

GC/MS audit/management approval: [illegible] 8/8/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

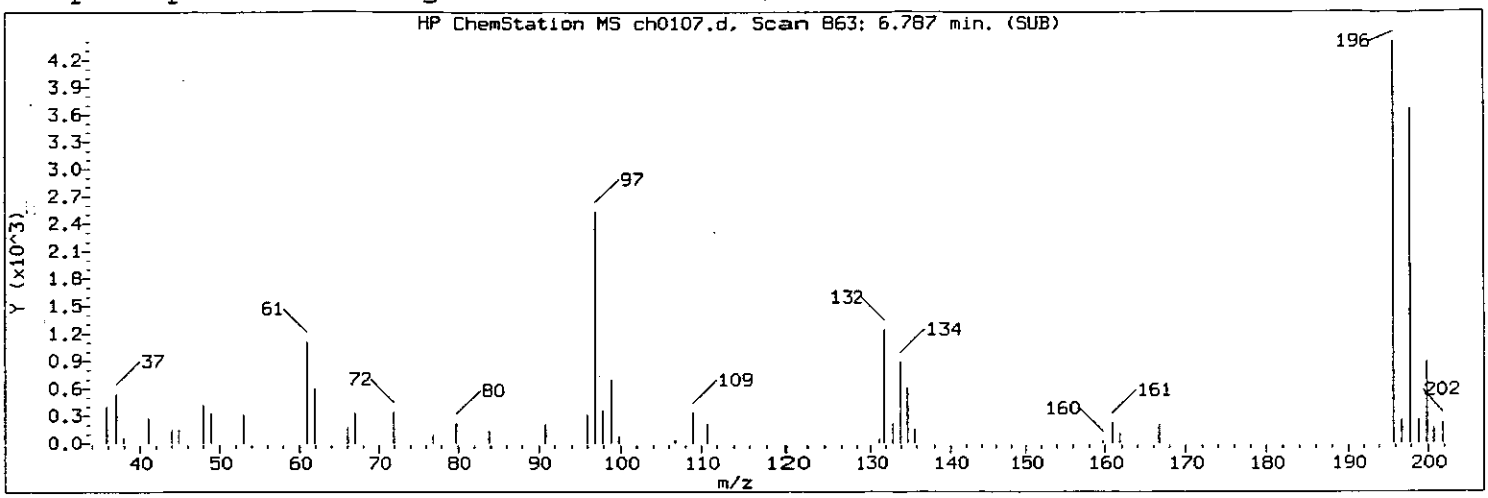
Compound Number : 65
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 860
Retention Time (minutes): 6.768
Quant Ion : 196
Area : 7246
Concentration (ng/ul) : 2.7425
Integration start scan : 857 Integration stop scan: 867
Y at integration start : 0 Y at integration end: 0

mac 8/5/07

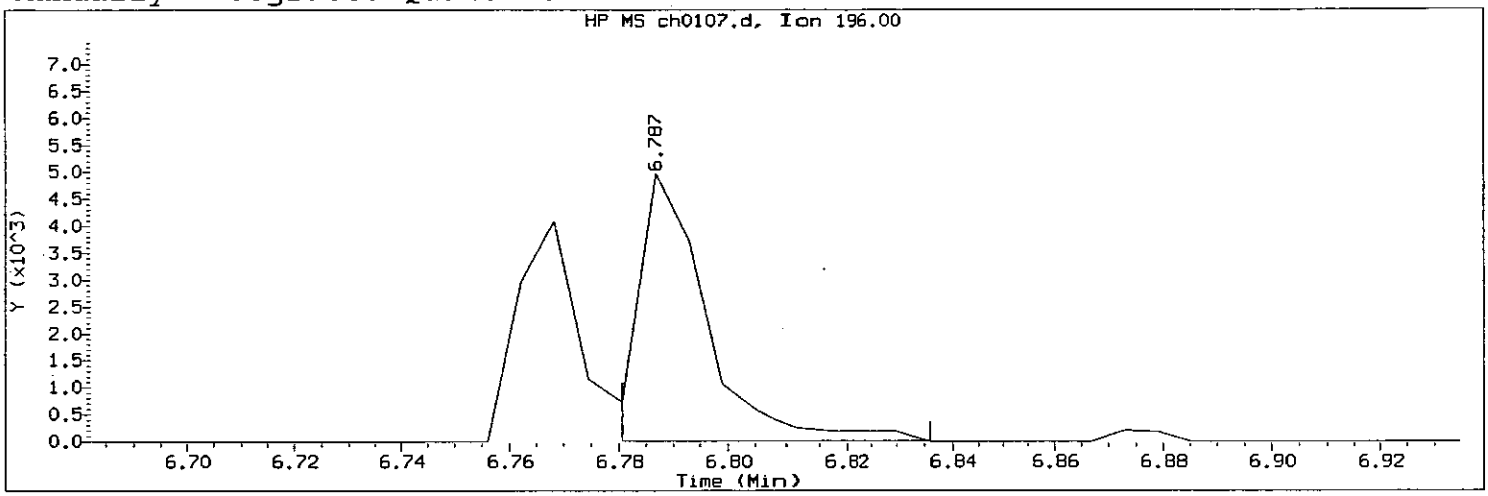
0352

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 65
Compound Name : 2,4,5-Trichlorophenol
Scan Number : 863
Retention Time (minutes): 6.787
Quant Ion : 196
Area (flag) : 4367 M
Concentration (ng/ul) : 1.6531
Integration start scan : 861 Integration stop scan: 870
Y at integration start : 7 Y at integration end: 7

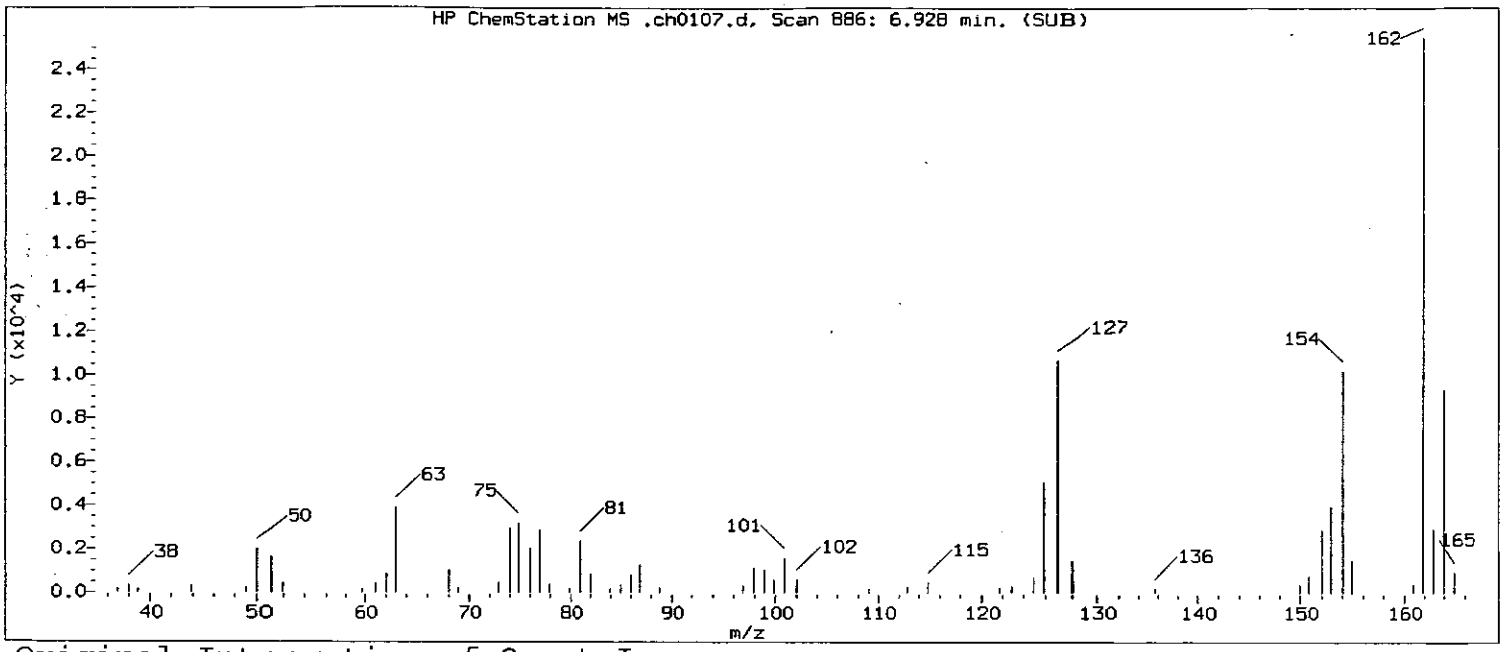
Reason for manual integration (circle one): missed peak ~~improper integratio~~

Analyst responsible for change: mac 8/5/07

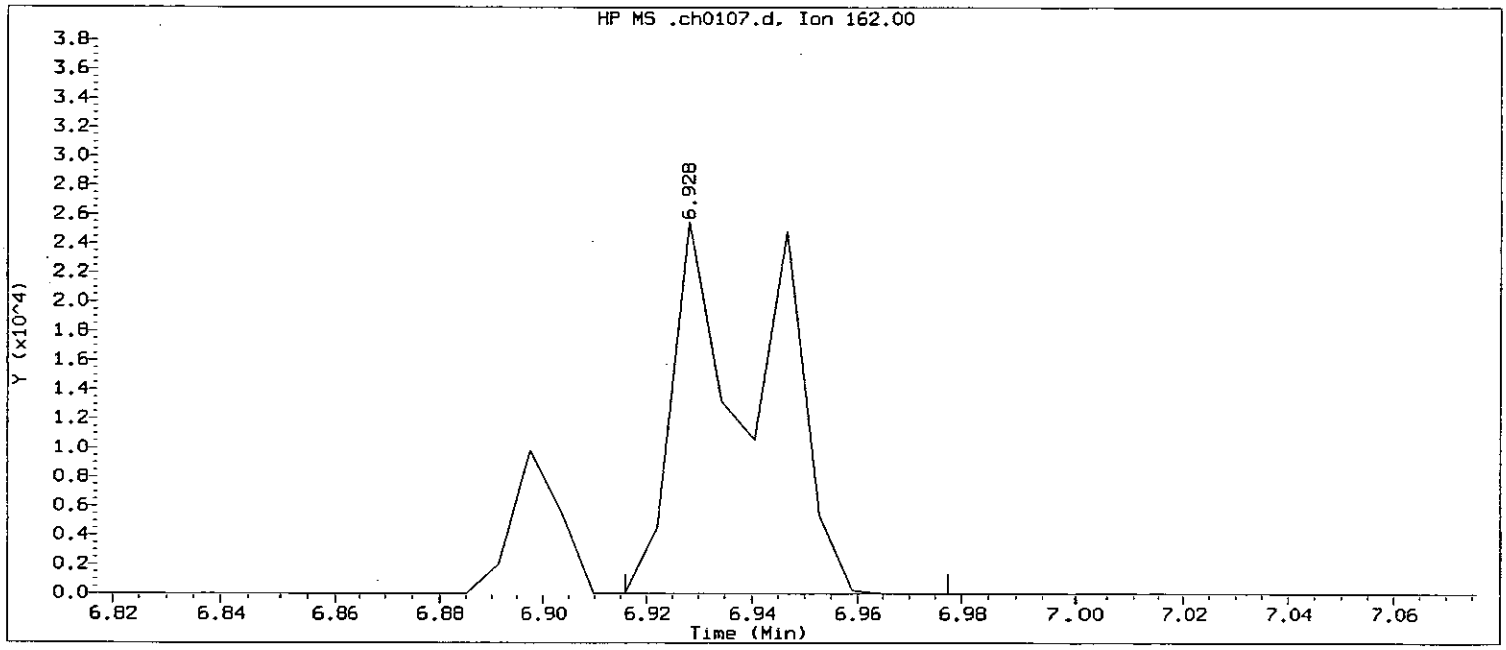
GC/MS audit/management approval: 8/8/07

Manual Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

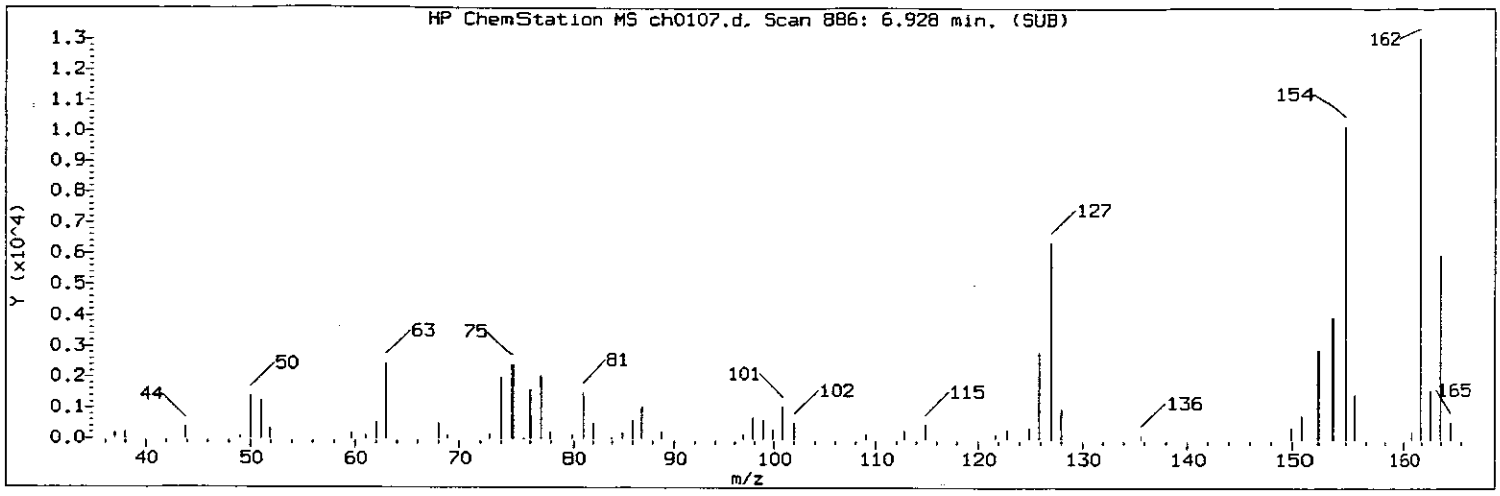
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 31099
Concentration (ng/ul) : 3.2219
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 0 Y at integration end: 0

mc (3) 8/5/07

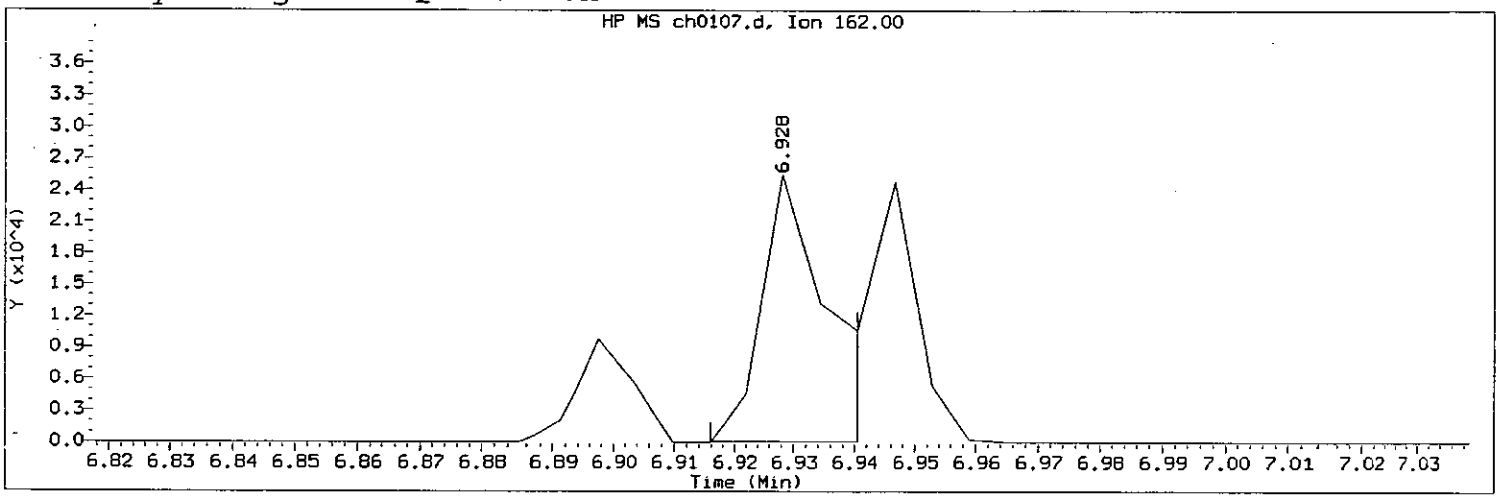
8354

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

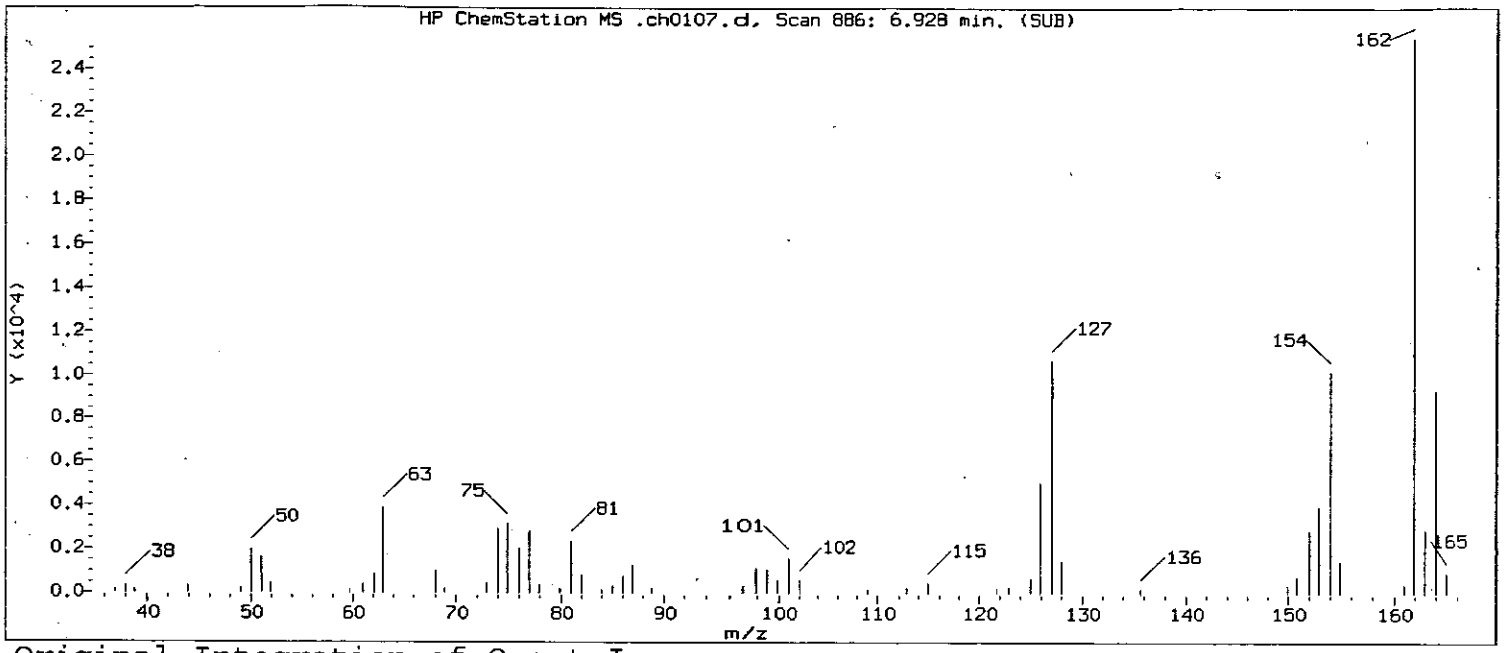
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area (flag) : 19703 M
Concentration (ng/ul) : 2.0413
Integration start scan : 883 Integration stop scan: 887
Y at integration start : 91 Y at integration end: 91

Reason for manual integration (circle one): missed peak ~~improper integratic~~

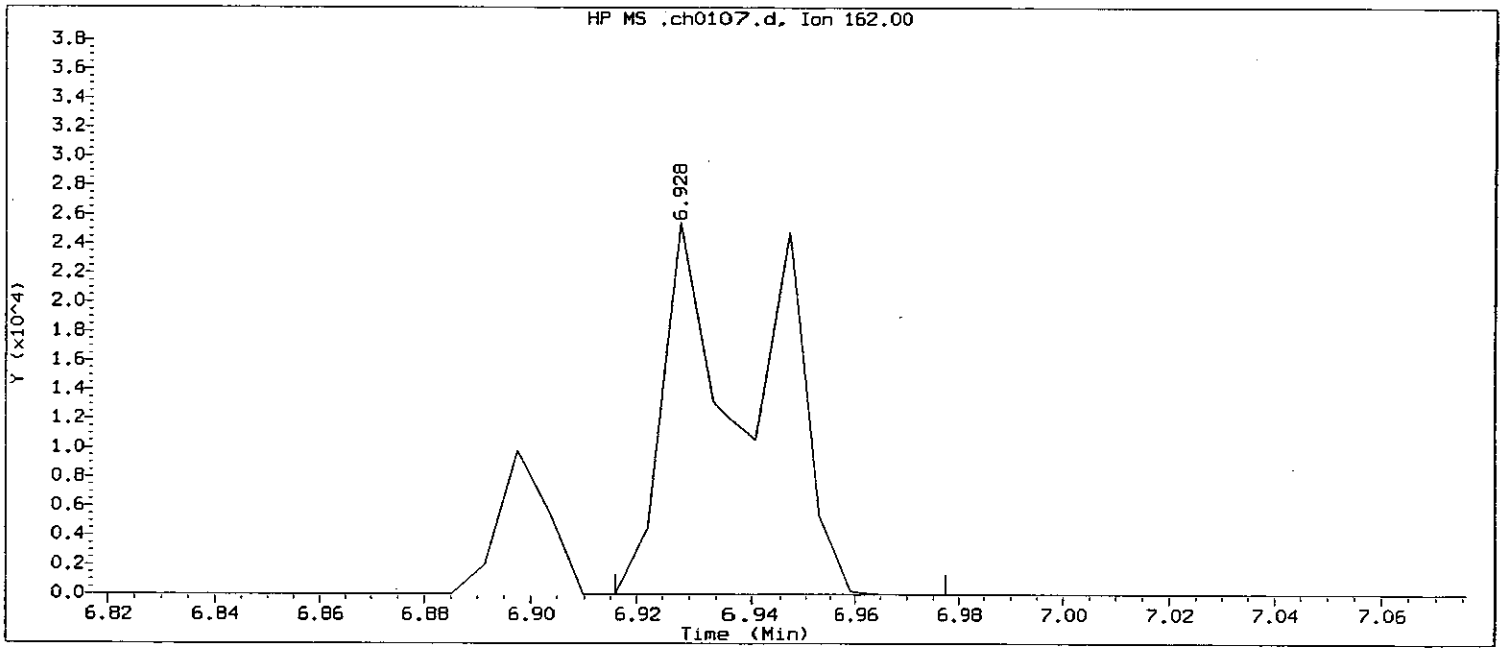
Analyst responsible for change: MC 8/5/07

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

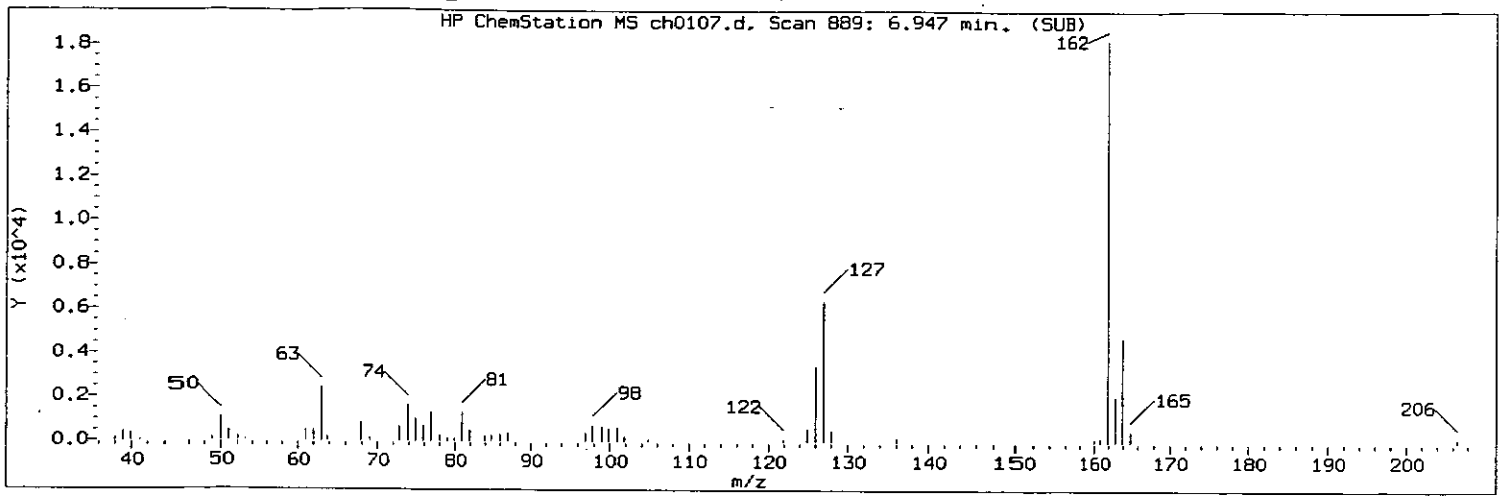
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 886
Retention Time (minutes): 6.928
Quant Ion : 162
Area : 31099
Concentration (ng/ul) : 4.1035
Integration start scan : 883 Integration stop scan: 893
Y at integration start : 0 Y at integration end: 0

mac (3) 8/5/07

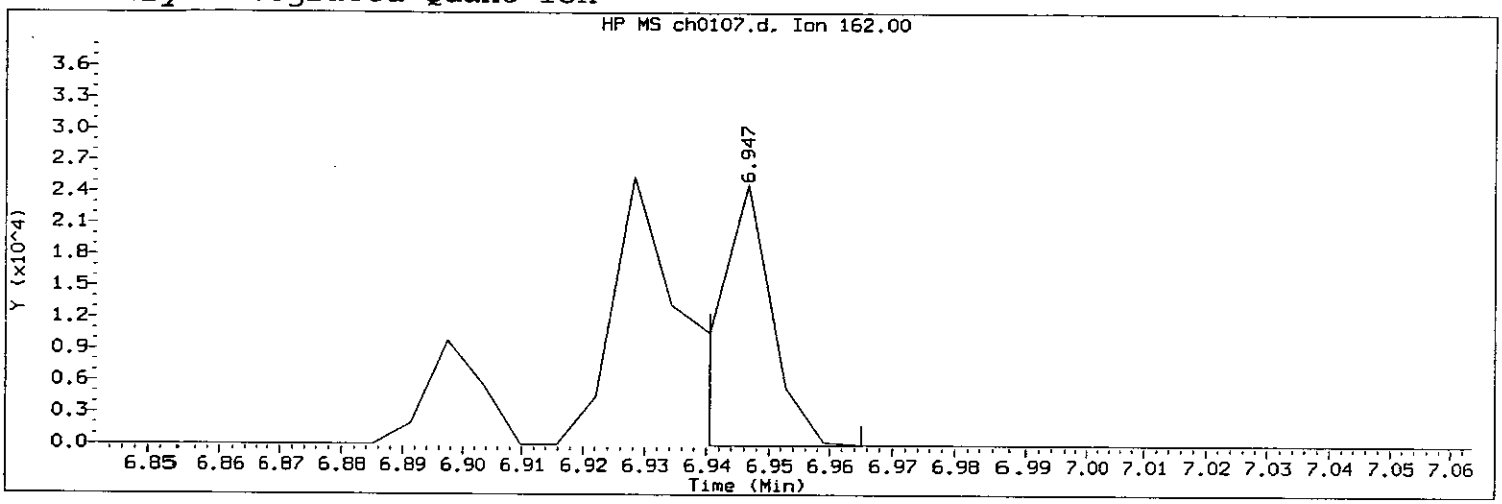
0356

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

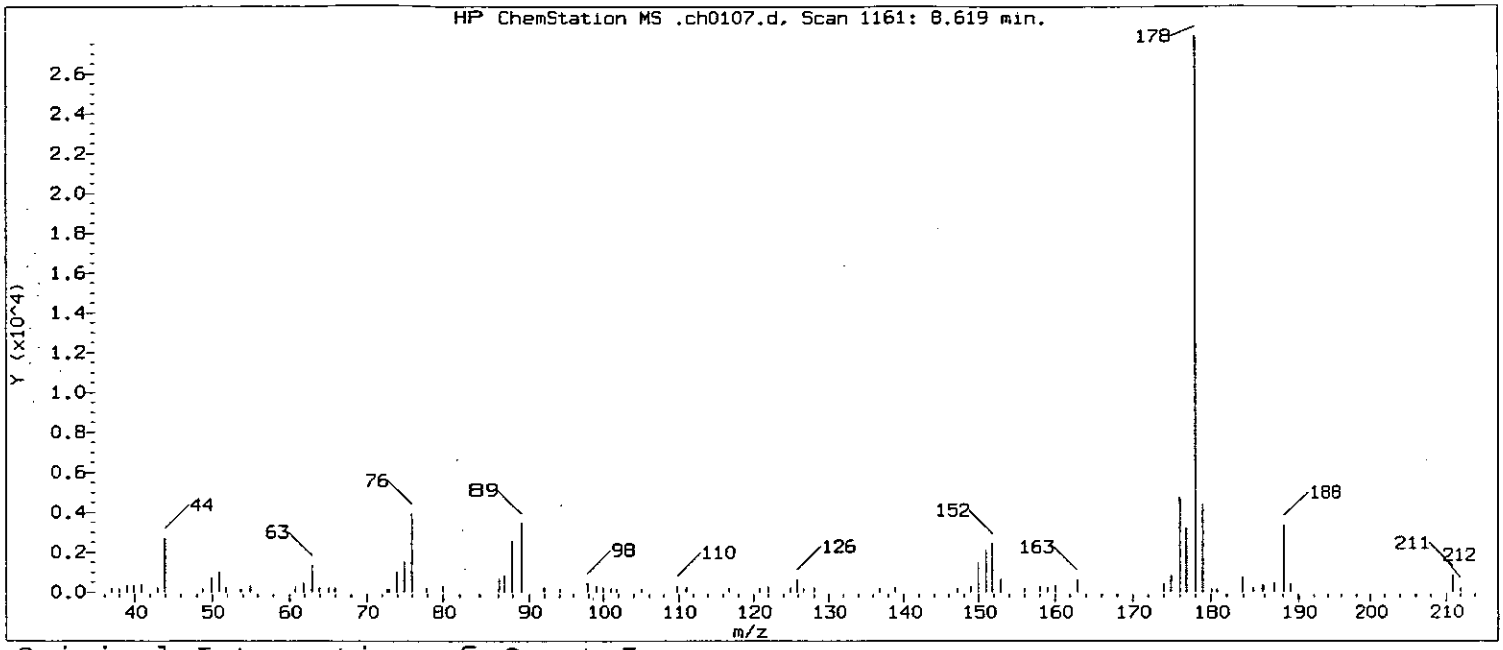
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 889
Retention Time (minutes): 6.947
Quant Ion : 162
Area (flag) : 15252 M
Concentration (ng/ul) : 2.0125
Integration start scan : 887 Integration stop scan: 891
Y at integration start : -64 Y at integration end: -64

Reason for manual integration (circle one): missed peak ~~improper integratio~~

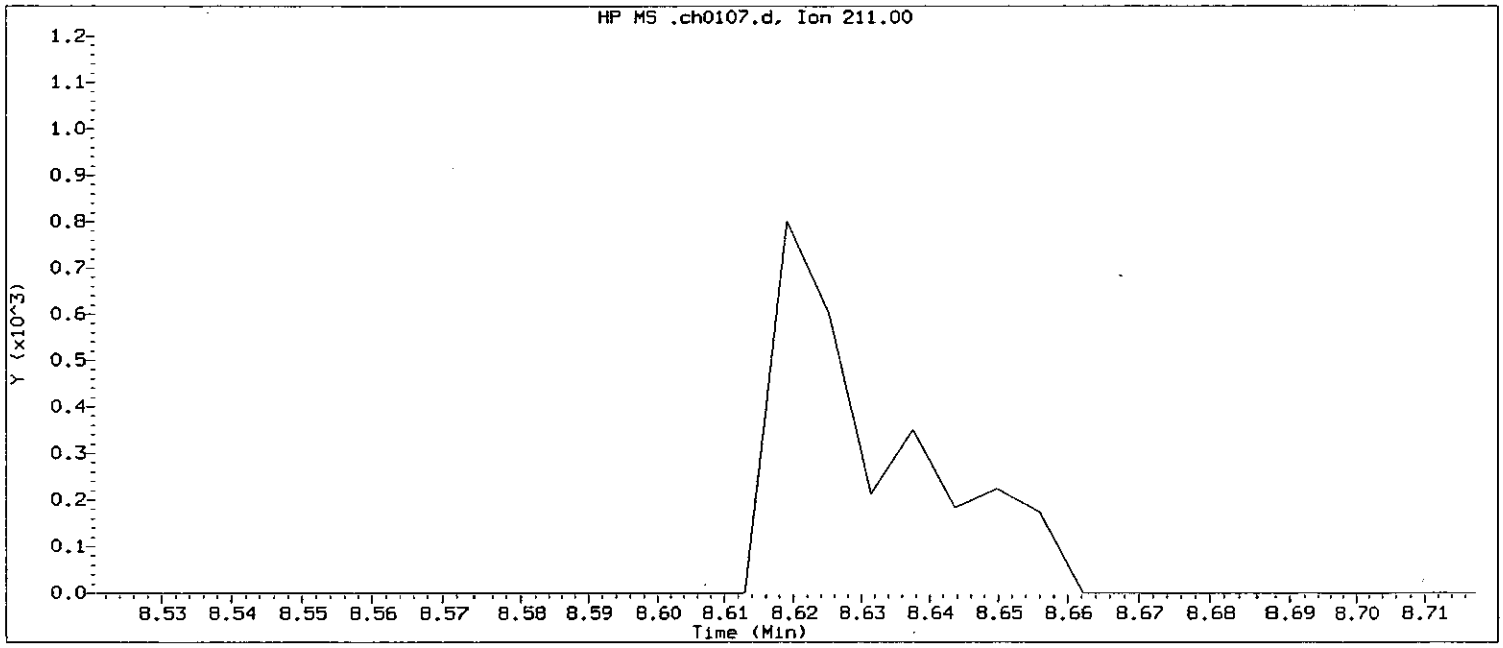
Analyst responsible for change: MAC 8/5/07

GC/MS audit/management approval: 035 8/8/07

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

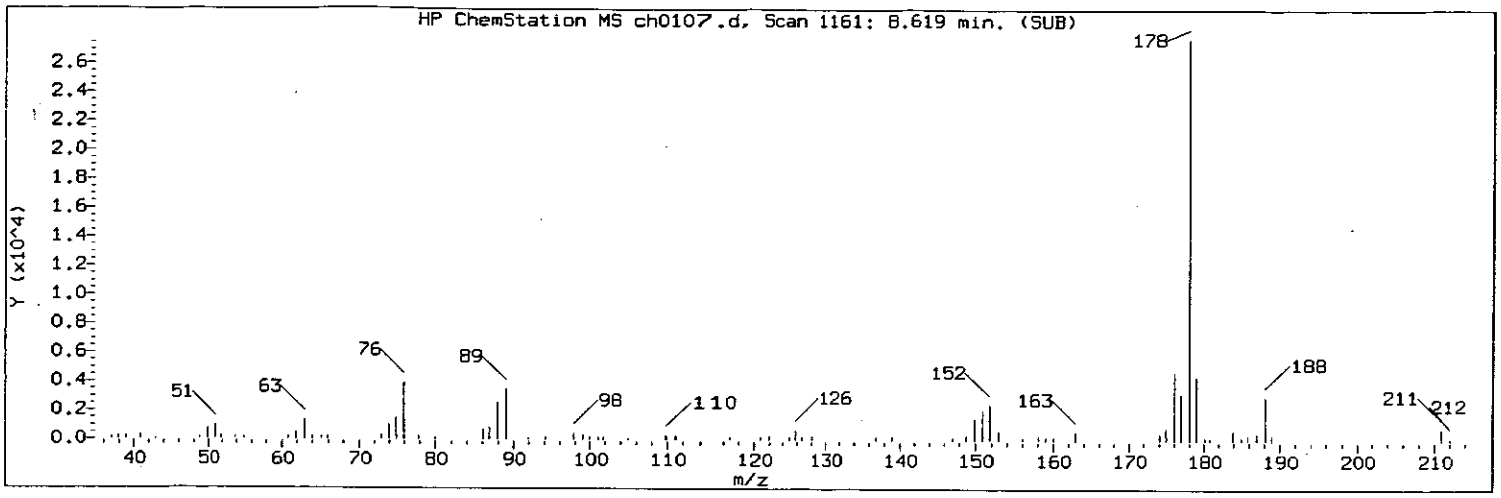
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 122
Compound Name : Dinoseb
Expected RT (minutes) : 8.619
Quant Ion : 211

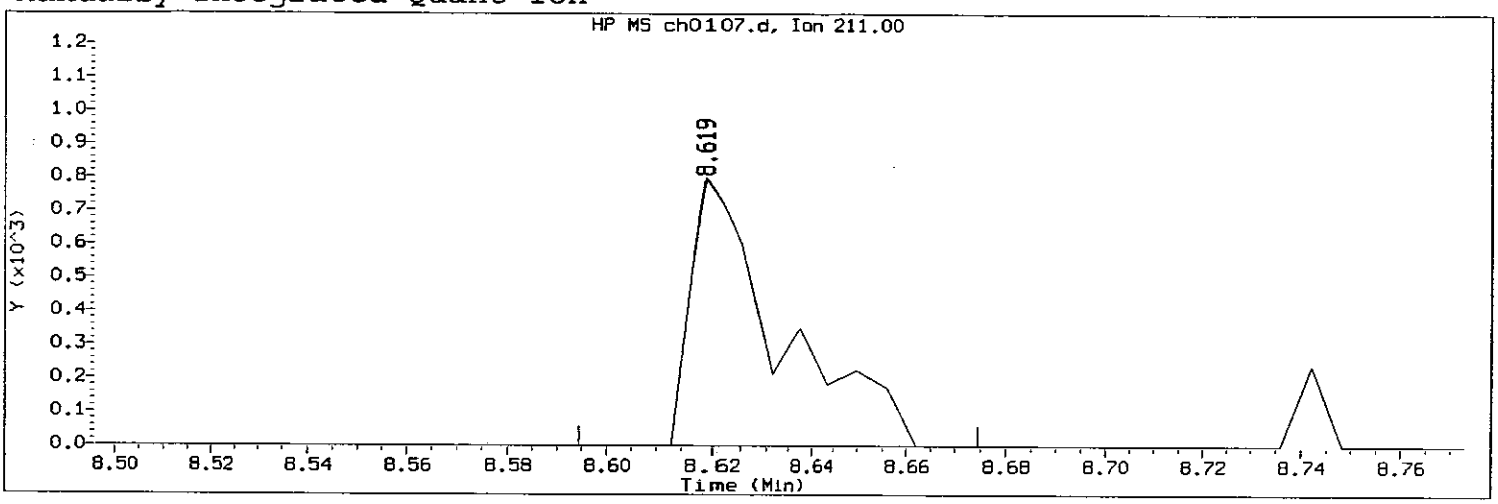
mc 8/5/07
8358

Original Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 122
Compound Name : Dinoseb
Scan Number : 1161
Retention Time (minutes) : 8.619
Quant Ion : 211
Area (flag) : 938 M
Concentration (ng/ul) : 9.0782
Integration start scan : 1156 Integration stop scan: 1169
Y at integration start : 0 Y at integration end: 0

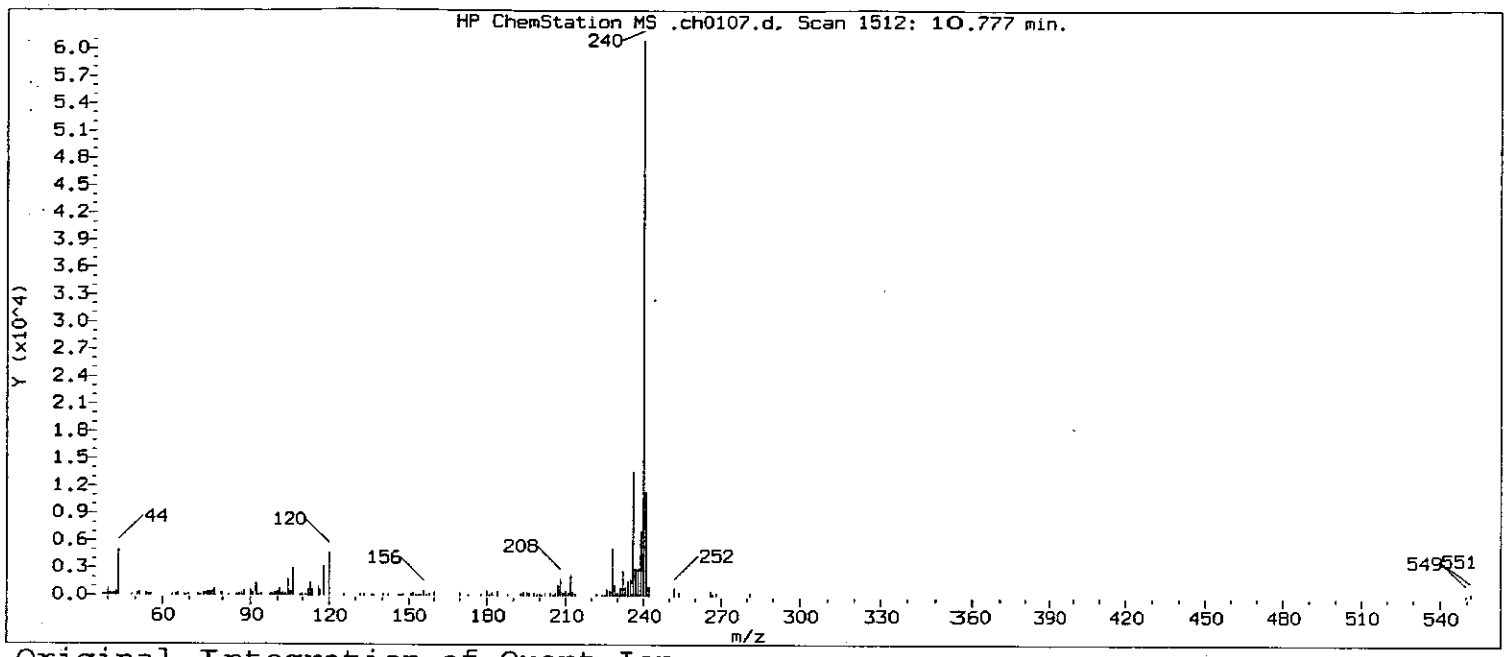
Reason for manual integration (circle one): missed peak ~~improper integratic~~

Analyst responsible for change: mac13 8/5/07

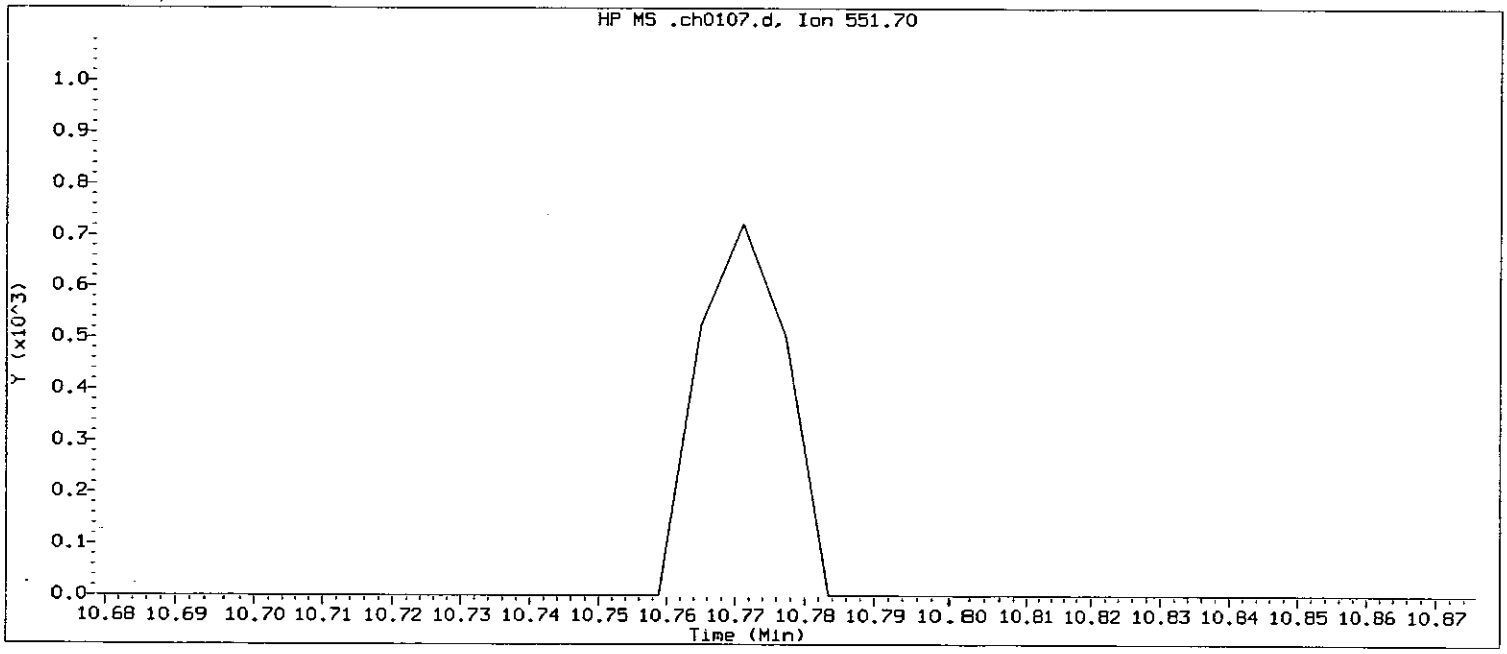
GC/MS audit/management approval: 0359 8/6/07

Manual Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

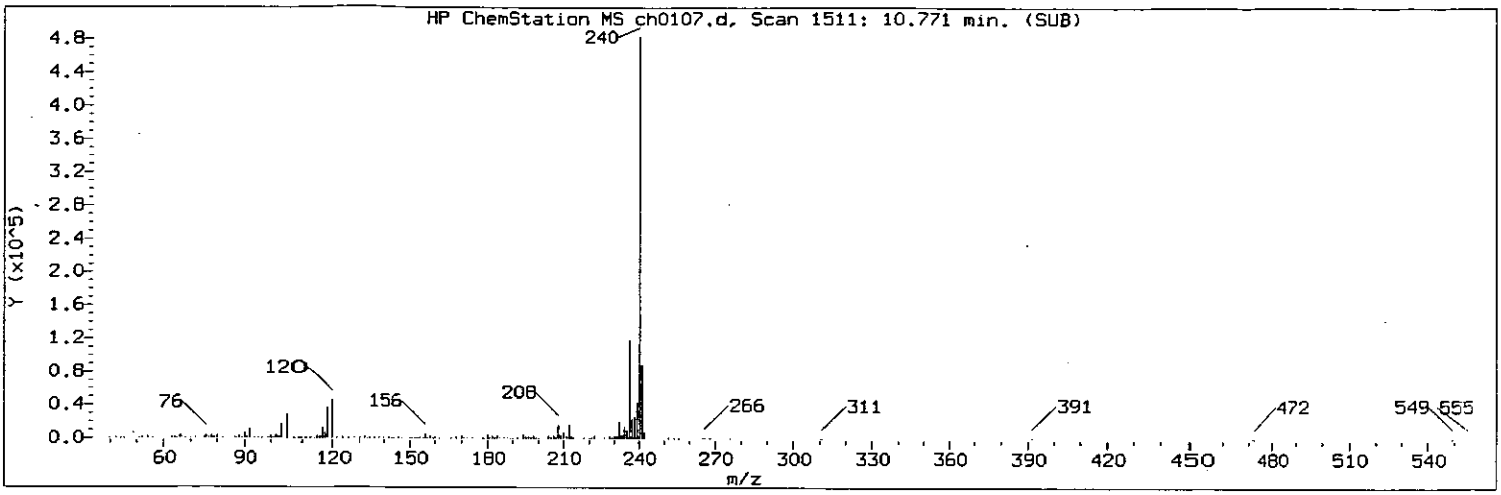
Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:53 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

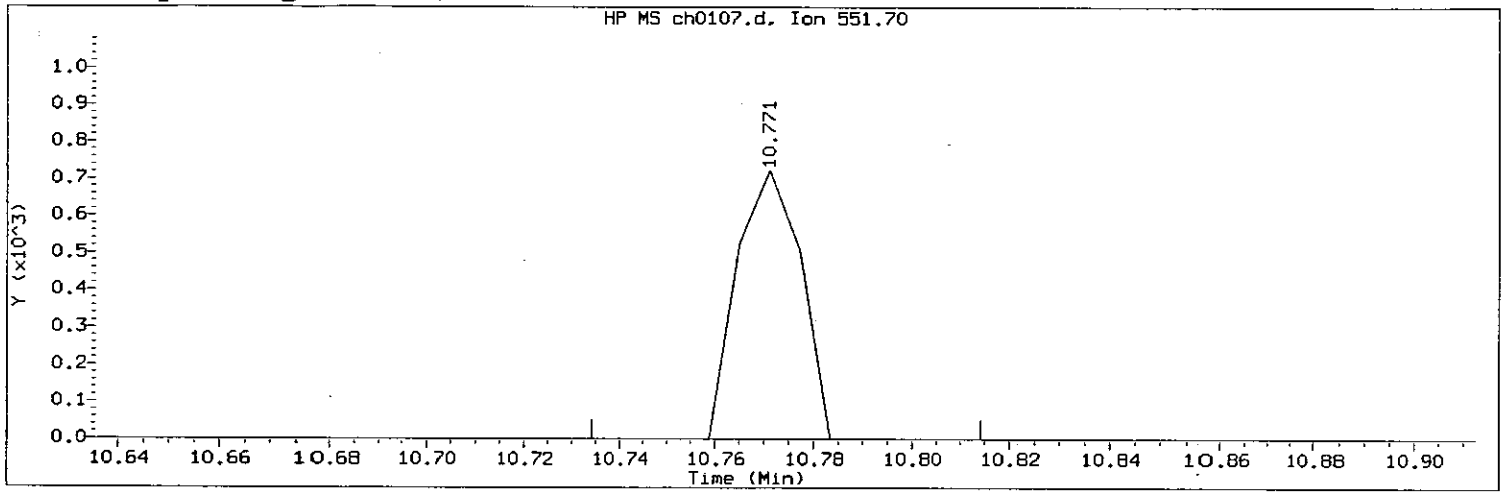
Compound Number : 147
Compound Name : Hexabromobenzene
Expected RT (minutes) : 10.777
Quant Ion : 552

mc (13) 8/5/07
0360

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug05.b/ch0107.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:35 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 08:59 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 147
Compound Name : Hexabromobenzene
Scan Number : 1511
Retention Time (minutes): 10.771
Quant Ion : 552
Area (flag) : 646 M
Concentration (ng/ul) : 1.4372
Integration start scan : 1504 Integration stop scan: 1517
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: mac (3) 8/5/07

GC/MS audit/management approval: 8/6/07

Manual Integration Report for data file /chem/HP10623.i/07aug05.b/ch0107.d, generated on 08/05/2007 at 09:00

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0108.d

ICV SAMPLE ID: 8270ICV2057 BATCH: 07AUG05026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	50.00	52.81	6	20	YES
N-Nitrosodimethylamine	50.00	57.86	16	20	YES
Pyridine	50.00	44.59	-11	20	YES
2-Picoline	50.00	51.32	3	20	YES
2-Fluorophenol	50.00	48.55	-3	20	YES
Phenol-d5	50.00	49.59	-1	20	YES
Phenol-d6	50.00	49.59	-1	20	YES
Phenol	50.00	50.61	1	20	YES
Aniline	50.00	47.33	-5	20	YES
bis(2-Chloroethyl)ether	50.00	51.01	2	20	YES
2-Chlorophenol	50.00	51.10	2	20	YES
1,3-Dichlorobenzene	50.00	51.56	3	20	YES
1,4-Dichlorobenzene	50.00	51.57	3	20	YES
Benzyl alcohol	50.00	48.99	-2	20	YES
1,2-Dichlorobenzene	50.00	50.91	2	20	YES
2-Methylphenol	50.00	47.37	-5	20	YES
2,2'-oxybis(1-Chloropropane	50.00	43.54	-13	20	YES
bis(2-Chloroisopropyl)ether	50.00	43.54	-13	20	YES
Acetophenone	50.00	50.45	1	20	YES
N-Nitroso-di-n-propylamine	50.00	50.26	1	20	YES
4-Methylphenol	50.00	49.38	-1	20	YES
o-Toluidine	50.00	48.94	-2	20	YES
Hexachloroethane	50.00	49.83	0	20	YES
Nitrobenzene-d5	50.00	48.53	-3	20	YES
Nitrobenzene	50.00	48.27	-3	20	YES
Isophorone	50.00	43.67	-13	20	YES
2-Nitrophenol	50.00	51.07	2	20	YES
2,4-Dimethylphenol	50.00	49.03	-2	20	YES
bis(2-Chloroethoxy)methane	50.00	50.10	0	20	YES
Benzoic acid	50.00	45.98	-8	20	YES
2,4-Dichlorophenol	50.00	48.19	-4	20	YES
1,2,4-Trichlorobenzene	50.00	49.86	0	20	YES
Naphthalene	50.00	50.11	0	20	YES
4-Chloroaniline	50.00	50.95	2	20	YES
2,6-Dichlorophenol	50.00	48.51	-3	20	YES
Hexachlorobutadiene	50.00	49.09	-2	20	YES
Quinoline	50.00	49.26	-1	20	YES

NC = Could not calculate

Comments: mc (3) 8/5/07 RHK 1975 8/6/07

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0108.d

ICV SAMPLE ID: 8270ICV2057 BATCH: 07AUG05026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Caprolactam	50.00	49.80	0	20	YES
4-Chloro-3-methylphenol	50.00	48.52	-3	20	YES
2-Methylnaphthalene	50.00	49.38	-1	20	YES
1-Methylnaphthalene	50.00	46.96	-6	20	YES
Hexachlorocyclopentadiene	100.00	107.87	8	20	YES
1,2,4,5-Tetrachlorobenzene	50.00	50.18	0	20	YES
2,4,6-Trichlorophenol	50.00	50.41	1	20	YES
2,4,5-Trichlorophenol	50.00	48.78	-2	20	YES
2-Fluorobiphenyl	50.00	49.19	-2	20	YES
Biphenyl	50.00	50.39	1	20	YES
Diphenyl	50.00	50.39	1	20	YES
1,1'-Biphenyl	50.00	50.39	1	20	YES
2-Chloronaphthalene	50.00	38.50	-23	20	NO
Diphenyl ether	50.00	45.73	-9	20	YES
2-Nitroaniline	50.00	51.42	3	20	YES
Dimethylphthalate	50.00	48.36	-3	20	YES
2,6-Dinitrotoluene	50.00	52.61	5	20	YES
Acenaphthylene	50.00	50.68	1	20	YES
3-Nitroaniline	50.00	50.44	1	20	YES
Acenaphthene	50.00	50.06	0	20	YES
2,4-Dinitrophenol	50.00	45.40	-9	20	YES
Pentachlorobenzene	50.00	49.28	-1	20	YES
4-Nitrophenol	50.00	44.91	-10	20	YES
Dibenzofuran	50.00	49.54	-1	20	YES
2,4-Dinitrotoluene	50.00	51.05	2	20	YES
1-Naphthylamine	50.00	49.38	-1	20	YES
2,3,4,6-Tetrachlorophenol	50.00	55.29	11	20	YES
2-Naphthylamine	50.00	48.72	-3	20	YES
Diethylphthalate	50.00	49.36	-1	20	YES
Fluorene	50.00	51.15	2	20	YES
4-Chlorophenyl-phenylether	50.00	49.06	-2	20	YES
4-Nitroaniline	50.00	51.56	3	20	YES
4,6-Dinitro-2-methylphenol	50.00	42.83	-14	20	YES
N-Nitrosodiphenylamine	50.00	47.36	-5	20	YES
1,2-Diphenylhydrazine	50.00	50.77	2	20	YES
2,4,6-Tribromophenol	50.00	50.38	1	20	YES
Phorate	50.00	47.92	-4	20	YES

NC = Could not calculate

Comments: _____

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

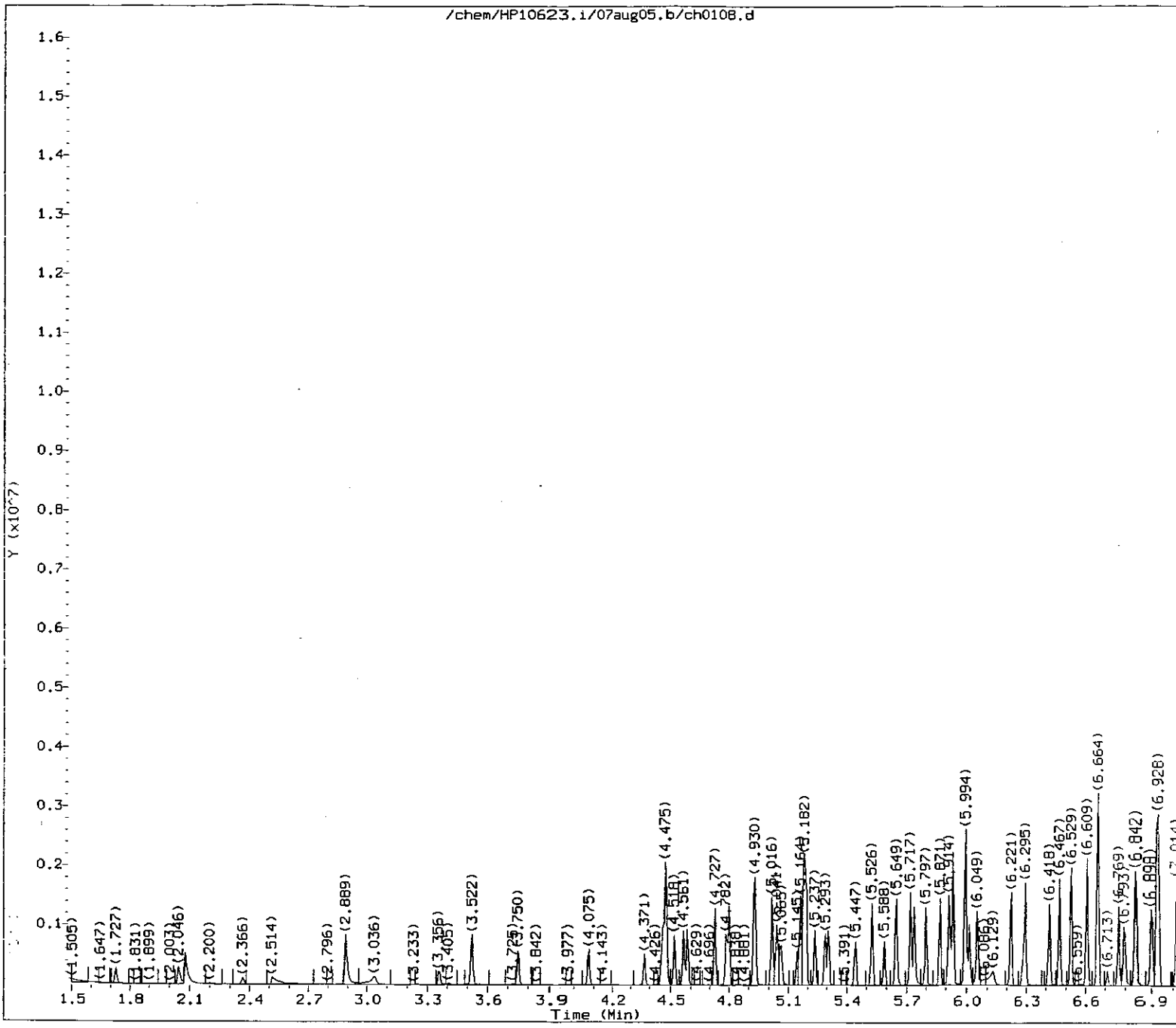
Method: SW-846 8270C File ID: ch0108.d

ICV SAMPLE ID: 8270ICV2057 BATCH: 07AUG05026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
4-Bromophenyl-phenylether	50.00	50.64	1	20	YES
Hexachlorobenzene	50.00	49.69	-1	20	YES
Pentachlorophenol	50.00	44.71	-11	20	YES
Phenanthrene	50.00	50.01	0	20	YES
Dinoseb	50.00	44.95	-10	20	YES
Anthracene	50.00	50.05	0	20	YES
Carbazole	50.00	50.36	1	20	YES
Methyl parathion	50.00	55.43	11	20	YES
Di-n-butylphthalate	50.00	51.28	3	20	YES
Parathion	50.00	53.80	8	20	YES
Fluoranthene	50.00	47.10	-6	20	YES
Benzidine	250.00	252.07	1	20	YES
Pyrene	50.00	49.05	-2	20	YES
Terphenyl-d14	50.00	48.09	-4	20	YES
Butylbenzylphthalate	50.00	49.45	-1	20	YES
3,3'-Dichlorobenzidine	50.00	47.51	-5	20	YES
Benzo(a)anthracene	50.00	49.25	-1	20	YES
4,4'-Methylenebis(2-Chloroa	50.00	45.08	-10	20	YES
Chrysene	50.00	50.68	1	20	YES
bis(2-Ethylhexyl)phthalate	50.00	49.55	-1	20	YES
6-Methylchrysene	50.00	51.00	2	20	YES
Di-n-octylphthalate	50.00	48.74	-3	20	YES
7,12-Dimethylbenz[a]anthrac	50.00	48.20	-4	20	YES
Benzo(b)fluoranthene	50.00	52.60	5	20	YES
Benzo(k)fluoranthene	50.00	48.50	-3	20	YES
Benzo(a)pyrene	50.00	50.85	2	20	YES
3-Methylcholanthrene	50.00	51.19	2	20	YES
Dibenz(a,h)acridine	50.00	53.60	7	20	YES
Dibenz(a,j)acridine	50.00	52.77	6	20	YES
Indeno(1,2,3-cd)pyrene	50.00	50.80	2	20	YES
Dibenz(a,h)anthracene	50.00	53.96	8	20	YES
Benzo(g,h,i)perylene	50.00	50.84	2	20	YES

NC = Could not calculate

Comments: _____



Quant Report

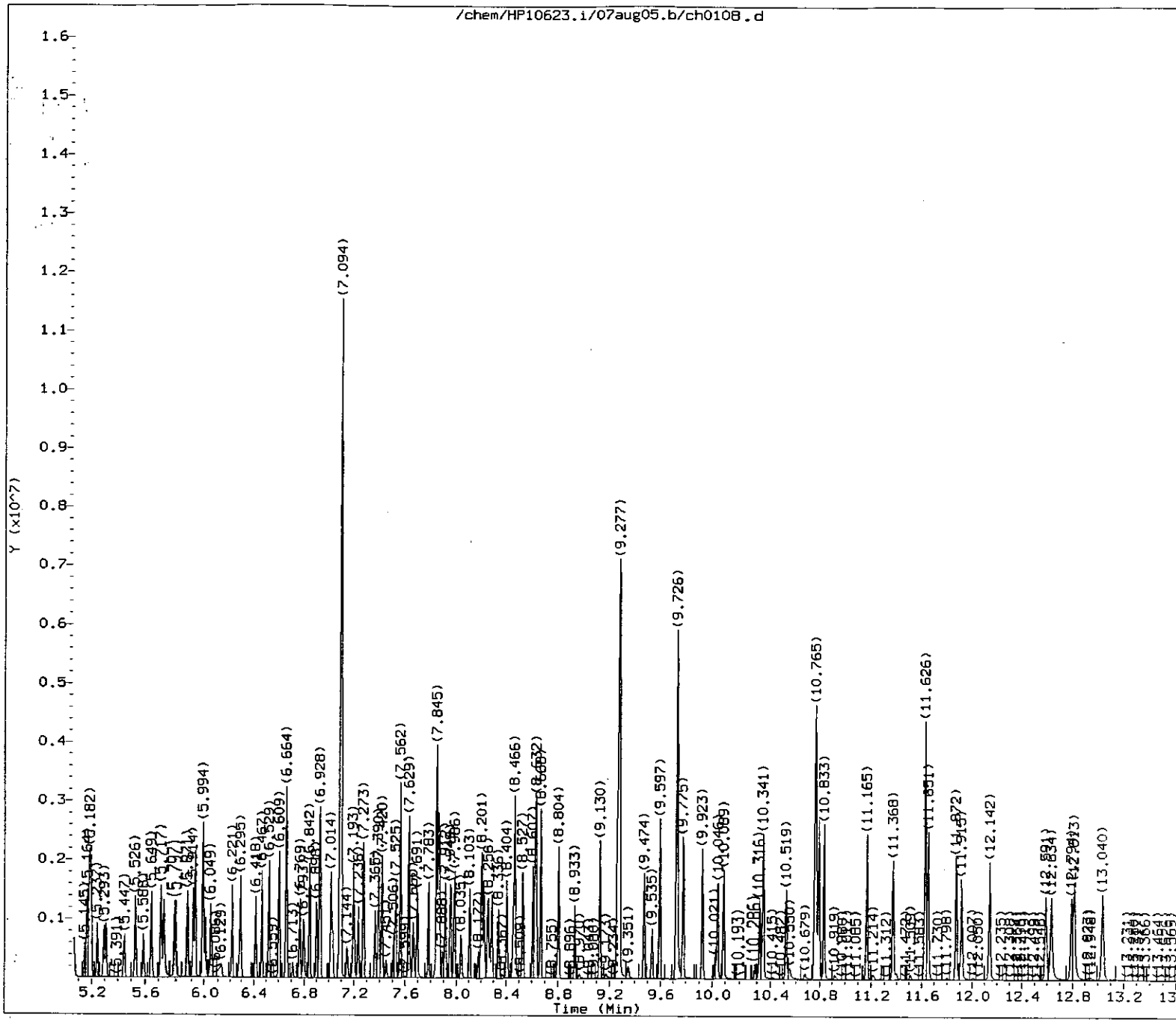
Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0108.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:55 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 09:09 Automation

Sample Name: SSTD050 Lab Sample ID: 8270ICV2057

0365
mc (13) 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0108.d
Injection date and time: 05-AUG-2007 08:55

Instrument ID: HP10623.i
Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m
Calibration date and time: 05-AUG-2007 08:49

Sublist used: all1

Date, time and analyst ID of latest file update: 05-Aug-2007 09:09 Automation

Sample Name: SSTD050

Lab Sample ID: 8270ICV2057

0366

mc (13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0108.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:55 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 09:09 Automation

Sample Name: SSTD050 Lab Sample ID: 8270ICV2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.727	88	79592	52.8076
2)	N-Nitrosodimethylamine	(1)	2.046	74	139381	57.8607
3)	Pyridine	(1)	2.077	79	198533	44.5914
5)	2-Picoline	(1)	2.889	93	228755	51.3225
15)	Phenol	(1)	4.475	94	299472	50.6113
16)	Aniline	(1)	4.481	93	333950	47.3255
18)	bis(2-Chloroethyl)ether	(1)	4.561	93	217720	51.0120
19)	2-Chlorophenol	(1)	4.580	128	197381	51.0961
20)	1,3-Dichlorobenzene	(1)	4.727	146	208011	51.5607
21)	1,4-Dichlorobenzene-d4	(1)	4.782	152	102313	40.0000
22)	1,4-Dichlorobenzene	(1)	4.801	146	216884	51.5663
23)	Benzyl alcohol	(1)	4.924	108	137114	48.9914
24)	1,2-Dichlorobenzene	(1)	4.936	146	202566	50.9071
25)	2-Methylphenol	(1)	5.041	108	191238	47.3703
26)	2,2'-oxybis(1-Chloropropane)	(1)	5.065	45	316678	43.5422
27)	bis(2-Chloroisopropyl)ether	(1)	5.065	45	316678	43.5422
29)	Acetophenone	(1)	5.164	105	304777	50.4512
30)	N-Nitroso-di-n-propylamine	(1)	5.176	70	175858	50.2593
31)	4-Methylphenol	(1)	5.182	108	223464	49.3830
33)	o-Toluidine	(1)	5.194	106	341138	48.9387
34)	Hexachloroethane	(1)	5.237	117	76467	49.8298
36)	Nitrobenzene	(2)	5.305	77	237974	48.2738
38)	Isophorone	(2)	5.526	82	416909	43.6657
39)	2-Nitrophenol	(2)	5.588	139	84253	51.0686
40)	2,4-Dimethylphenol	(2)	5.649	107	223054	49.0309
42)	bis(2-Chloroethoxy)methane	(2)	5.736	93	276453	50.0974
43)	Benzoic acid	(2)	5.748	105	121310	45.9770
44)	2,4-Dichlorophenol	(2)	5.797	162	171458	48.1851
45)	1,2,4-Trichlorobenzene	(2)	5.871	180	178093	49.8633
46)	Naphthalene-d8	(2)	5.914	136	459846	40.0000
47)	Naphthalene	(2)	5.932	128	629063	50.1072
48)	4-Chloroaniline	(2)	5.994	127	267844	50.9499
49)	2,6-Dichlorophenol	(2)	5.994	162	166193	48.5137
51)	Hexachlorobutadiene	(2)	6.049	225	98187	49.0907
52)	Quinoline	(2)	6.221	129	419990	49.2598
53)	Caprolactam	(2)	6.289	113	73495	49.8003
55)	4-Chloro-3-methylphenol	(2)	6.418	107	196775	48.5205
58)	2-Methylnaphthalene	(2)	6.529	142	416024	49.3791
60)	1-Methylnaphthalene	(2)	6.609	142	391831	46.9583
61)	Hexachlorocyclopentadiene	(3)	6.664	237	212379	107.8740
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.664	216	177135	50.1827
64)	2,4,6-Trichlorophenol	(3)	6.769	196	121804	50.4141
65)	2,4,5-Trichlorophenol	(3)	6.799	196	139227	48.7821

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0108.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:55 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 09:09 Automation

Sample Name: SSTD050 Lab Sample ID: 8270ICV2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.922	154	524494	50.3872
69)	Diphenyl	(3)	6.922	154	524494	50.3872
70)	1,1'-Biphenyl	(3)	6.922	154	524494	50.3872
71)	2-Chloronaphthalene	(3)	6.935	162	401414	38.5017
72)	1-Chloronaphthalene	(3)	6.935	162	401058	48.9923
73)	Diphenyl ether	(3)	7.014	170	269745	45.7273
74)	2-Nitroaniline	(3)	7.033	138	121323	51.4177
77)	Dimethylphthalate	(3)	7.193	163	473381	48.3580
79)	2,6-Dinitrotoluene	(3)	7.236	165	106753	52.6089
80)	Acenaphthylene	(3)	7.273	152	672600	50.6798
81)	3-Nitroaniline	(3)	7.365	138	113606	50.4447
82)	Acenaphthene-d10	(3)	7.390	164	295385	40.0000
83)	Acenaphthene	(3)	7.420	153	416781	50.0602
84)	2,4-Dinitrophenol	(3)	7.451	184	30177	45.4036
85)	Pentachlorobenzene	(3)	7.525	250	167424	49.2756
86)	4-Nitrophenol	(3)	7.506	109	73717	44.9106
87)	Dibenzofuran	(3)	7.562	168	602259	49.5417
88)	2,4-Dinitrotoluene	(3)	7.562	165	131831	51.0490
90)	1-Naphthylamine	(3)	7.629	143	433023	49.3822
91)	2,3,4,6-Tetrachlorophenol	(3)	7.666	232	110624	55.2945
92)	2-Naphthylamine	(3)	7.697	143	433527	48.7172
93)	Diethylphthalate	(3)	7.783	149	485824	49.3648
94)	Fluorene	(3)	7.845	166	508515	51.1488
96)	4-Chlorophenyl-phenylether	(3)	7.857	204	225621	49.0562
98)	4-Nitroaniline	(3)	7.869	138	127787	51.5616
99)	4,6-Dinitro-2-methylphenol	(4)	7.894	198	50938	42.8308
102)	N-Nitrosodiphenylamine	(4)	7.955	169	347026	47.3644
103)	1,2-Diphenylhydrazine	(4)	7.986	77	570991	50.7664
108)	Phorate	(4)	8.207	75	306371	47.9239
110)	4-Bromophenyl-phenylether	(4)	8.256	248	134957	50.6434
112)	Hexachlorobenzene	(4)	8.287	284	145574	49.6944
116)	Pentachlorophenol	(4)	8.453	266	77809	44.7083
120)	Phenanthrene-d10	(4)	8.607	188	534588	40.0000
121)	Phenanthrene	(4)	8.625	178	728460	50.0054
122)	Dinoseb	(4)	8.619	211	76381	44.9546
124)	Anthracene	(4)	8.668	178	752089	50.0478
125)	Carbazole	(4)	8.804	167	717854	50.3628
126)	Methyl parathion	(4)	8.933	109	135654	55.4287
128)	Di-n-butylphthalate	(4)	9.130	149	835203	51.2846
129)	Parathion	(4)	9.259	109	91749	53.7981
134)	Fluoranthene	(4)	9.597	202	768767	47.1019
135)	Benzidine	(5)	9.726	184	2220244	252.0682
136)	Pyrene	(5)	9.781	202	835402	49.0505

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug05.b/ch0108.d Instrument ID: HP10623.i
Injection date and time: 05-AUG-2007 08:55 Analyst ID: mac00013

Method used: /chem/HP10623.i/07aug05.b/m8270.m Sublist used: all1
Calibration date and time: 05-AUG-2007 08:49
Date, time and analyst ID of latest file update: 05-Aug-2007 09:09 Automation

Sample Name: SSTD050 Lab Sample ID: 8270ICV2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
143)	Butylbenzylphthalate	(5)	10.347	149	371605	49.4502
145)	3,3'-Dichlorobenzidine	(5)	10.753	252	273538	47.5074
146)	Benzo(a)anthracene	(5)	10.765	228	757949	49.2538
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.765	231	130034	45.0842
149)	Chrysene-d12	(5)	10.771	240	544954	40.0000
150)	Chrysene	(5)	10.790	228	769712	50.6844
151)	bis(2-Ethylhexyl)phthalate	(5)	10.833	149	514894	49.5543
152)	6-Methylchrysene	(5)	11.165	242	554580	51.0014
156)	Di-n-octylphthalate	(6)	11.368	149	845031	48.7378
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.626	256	354096	48.1982
158)	Benzo(b)fluoranthene	(6)	11.626	252	786401	52.5980
159)	Benzo(k)fluoranthene	(6)	11.651	252	814971	48.5031
160)	Benzo(a)pyrene	(6)	11.872	252	747175	50.8549
161)	Perylene-d12	(6)	11.915	264	445169	40.0000
162)	3-Methylcholanthrene	(6)	12.142	268	410701	51.1884
166)	Dibenz(a,h)acridine	(6)	12.591	279	590133	53.6025
167)	Dibenz(a,j)acridine	(6)	12.634	279	649624	52.7739
168)	Indeno(1,2,3-cd)pyrene	(6)	12.794	276	839295	50.8020
169)	Dibenz(a,h)anthracene	(6)	12.813	278	713906	53.9608
170)	Benzo(g,h,i)perylene	(6)	13.040	276	704233	50.8367
9)	2-Fluorophenol	(1)	3.522	112	178261	48.5481
13)	Phenol-d5	(1)	4.463	99	247479	49.5917
14)	Phenol-d6	(1)	4.463	99	247479	49.5917
35)	Nitrobenzene-d5	(2)	5.293	82	217541	48.5295
66)	2-Fluorobiphenyl	(3)	6.842	172	457304	49.1918
104)	2,4,6-Tribromophenol	(3)	8.041	330	65766	50.3774
138)	Terphenyl-d14	(5)	9.923	244	539420	48.0890

M = Compound was manually integrated. A = User selected an alternate hi

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/14/07 08/14/07

Calibration Times: 00:49 02:38

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = ch0376.d RRF15 = ch0375.d RRF30 = ch0374.d
RRF50 = ch0373.d RRF80 = ch0371a.d RRF120 = ch0372.d

COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
1,4-Dioxane	0.655	0.555	0.614	0.672	0.633	0.622		0.625	6	AVG	
N-Nitrosodimethylamine	0.973	0.761	0.905	0.969	0.981	1.023		0.935	10	AVG	
Pyridine	1.791	1.544	1.920	1.957	1.749	1.752		1.786	8	AVG	
2-Picoline	1.851	1.654	1.578	1.806	1.602	1.782		1.712	7	AVG	
Phenol	* 2.097	1.865	2.074	2.142	2.178	2.161		2.086	6	AVG	*
Aniline	2.620	2.418	2.685	2.723	2.725	2.720		2.649	5	AVG	
bis(2-Chloroethyl)ether	1.550	1.471	1.537	1.598	1.594	1.573		1.554	3	AVG	
2-Chlorophenol	1.503	1.410	1.548	1.601	1.589	1.619		1.545	5	AVG	
1,3-Dichlorobenzene	1.704	1.484	1.577	1.643	1.627	1.623		1.610	5	AVG	
1,4-Dichlorobenzene	* 1.618	1.558	1.619	1.708	1.655	1.671		1.638	3	AVG	*
Benzyl alcohol	1.084	1.034	1.065	1.049	1.159	1.175		1.094	5	AVG	
1,2-Dichlorobenzene	1.555	1.434	1.528	1.611	1.579	1.565		1.545	4	AVG	
2-Methylphenol	1.433	1.402	1.563	1.559	1.573	1.594		1.521	5	AVG	
2,2'-oxybis(1-Chloropropane)	1.602	1.403	1.571	1.606	1.577	1.568		1.555	5	AVG	
bis(2-Chloroisopropyl)ether	1.602	1.403	1.571	1.606	1.577	1.568		1.555	5	AVG	
Acetophenone	2.237	2.024	2.195	2.234	2.229	2.257		2.196	4	AVG	
N-Nitroso-di-n-propylamine	# 1.078	1.038	1.134	1.117	1.138	1.128		1.105	4	AVG	#
4-Methylphenol	1.786	1.636	1.730	1.788	1.773	1.754		1.745	3	AVG	
o-Toluidine	2.585	2.354	2.538	2.571	2.566	2.539		2.526	3	AVG	
Hexachloroethane	0.560	0.520	0.548	0.570	0.575	0.568		0.557	4	AVG	
Nitrobenzene	0.400	0.355	0.383	0.384	0.382	0.371		0.379	4	AVG	
Isophorone	0.690	0.667	0.713	0.716	0.723	0.705		0.702	3	AVG	
2-Nitrophenol	* 0.176	0.160	0.188	0.189	0.195	0.191		0.183	7	AVG	*
2,4-Dimethylphenol	0.351	0.340	0.369	0.360	0.369	0.359		0.358	3	AVG	
bis(2-Chloroethoxy)methane	0.363	0.333	0.366	0.368	0.385	0.379		0.366	5	AVG	
Benzoic acid	0.118	0.151	0.205	0.196	0.237	0.246		0.192	26	1STDEG	
2,4-Dichlorophenol	* 0.280	0.275	0.291	0.304	0.304	0.294		0.291	4	AVG	*
1,2,4-Trichlorobenzene	0.300	0.272	0.295	0.297	0.301	0.288		0.292	4	AVG	
Naphthalene	1.071	1.016	1.091	1.106	1.081	1.045		1.068	3	AVG	
4-Chloroaniline	0.463	0.429	0.472	0.477	0.462	0.454		0.460	4	AVG	
2,6-Dichlorophenol	0.287	0.269	0.288	0.288	0.289	0.282		0.284	3	AVG	
Hexachlorobutadiene	* 0.138	0.128	0.133	0.140	0.134	0.131		0.134	3	AVG	*
Quinoline	0.715	0.681	0.741	0.746	0.750	0.741		0.729	4	AVG	
Caprolactam	0.129	0.120	0.133	0.134	0.141	0.137		0.132	5	AVG	
4-Chloro-3-methylphenol	* 0.305	0.284	0.322	0.333	0.336	0.332		0.319	6	AVG	*
2-Methylnaphthalene	0.723	0.672	0.749	0.730	0.743	0.713		0.722	4	AVG	
1-Methylnaphthalene	0.702	0.659	0.700	0.710	0.701	0.694		0.694	3	AVG	
Hexachlorocyclopentadiene	# 0.065	0.096	0.133	0.154	0.164	0.164		0.129	31	1STDEG	#
1,2,4,5-Tetrachlorobenzene	0.452	0.435	0.464	0.454	0.451	0.433		0.448	3	AVG	
2,4,6-Trichlorophenol	* 0.341	0.297	0.338	0.344	0.343	0.329		0.332	5	AVG	*
2,4,5-Trichlorophenol	0.373	0.352	0.397	0.407	0.398	0.385		0.385	5	AVG	
Biphenyl	1.483	1.352	1.471	1.447	1.427	1.363		1.424	4	AVG	
Diphenyl	1.483	1.352	1.471	1.447	1.427	1.363		1.424	4	AVG	
1,1'-Biphenyl	1.483	1.352	1.471	1.447	1.427	1.363		1.424	4	AVG	
2-Chloronaphthalene	1.379	1.255	1.320	1.294	1.515	1.421		1.364	7	AVG	
1-Chloronaphthalene	1.167	1.100	1.257	1.328	1.082	1.072		1.168	9	AVG	
Diphenyl ether	0.764	0.712	0.776	0.763	0.762	0.739		0.753	3	AVG	
2-Nitroaniline	0.409	0.371	0.436	0.427	0.441	0.442		0.421	7	AVG	
Dimethylphthalate	1.306	1.206	1.291	1.290	1.292	1.273		1.276	3	AVG	
2,6-Dinitrotoluene	0.276	0.276	0.319	0.316	0.324	0.308		0.303	7	AVG	
Acenaphthylene	1.655	1.531	1.717	1.707	1.677	1.619		1.651	4	AVG	
3-Nitroaniline	0.356	0.330	0.384	0.382	0.390	0.376		0.370	6	AVG	

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mac (13) 8/14/07

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/14/07 08/14/07

Calibration Times: 00:49 02:38

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = ch0376.d RRF15 = ch0375.d RRF30 = ch0374.d
RRF50 = ch0373.d RRF80 = ch0371a.d RRF120 = ch0372.d

COMPOUND		RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Acenaphthene	*	1.117	1.059	1.171	1.148	1.144	1.111		1.125	3	AVG	*
2,4-Dinitrophenol	#	0.088	0.104	0.130	0.126	0.154	0.161		0.127	22	1STDEG	#
Pentachlorobenzene		0.412	0.405	0.437	0.418	0.413	0.411		0.416	3	AVG	
4-Nitrophenol	#	0.185	0.196	0.214	0.216	0.205	0.197		0.202	6	AVG	#
Dibenzofuran		1.704	1.530	1.714	1.655	1.622	1.591		1.636	4	AVG	
2,4-Dinitrotoluene		0.377	0.362	0.417	0.410	0.426	0.424		0.402	7	AVG	
1-Naphthylamine		1.273	1.226	1.324	1.328	1.278	1.246		1.279	3	AVG	
2,3,4,6-Tetrachlorophenol		0.248	0.242	0.280	0.270	0.284	0.281		0.268	7	AVG	
2-Naphthylamine		1.367	1.264	1.370	1.387	1.343	1.316		1.341	3	AVG	
Diethylphthalate		1.289	1.170	1.327	1.319	1.342	1.291		1.290	5	AVG	
Fluorene		1.298	1.237	1.353	1.341	1.369	1.328		1.321	4	AVG	
4-Chlorophenyl-phenylether		0.595	0.539	0.588	0.578	0.572	0.544		0.569	4	AVG	
4-Nitroaniline		0.386	0.362	0.420	0.426	0.436	0.417		0.408	7	AVG	
4,6-Dinitro-2-methylphenol		0.077	0.079	0.104	0.111	0.125	0.123		0.103	20	1STDEG	
N-Nitrosodiphenylamine (1)	*	0.502	0.495	0.540	0.536	0.530	0.521		0.521	4	AVG	*
1,2-Diphenylhydrazine		0.658	0.644	0.708	0.701	0.697	0.688		0.683	4	AVG	
Phorate		0.494	0.496	0.576	0.584	0.595	0.595		0.557	9	AVG	
4-Bromophenyl-phenylether		0.172	0.164	0.184	0.184	0.189	0.184		0.180	5	AVG	
Hexachlorobenzene		0.219	0.199	0.220	0.219	0.215	0.212		0.214	4	AVG	
Pentachlorophenol	*	0.091	0.098	0.113	0.117	0.132	0.130		0.113	15	AVG	*+
Phenanthrene		1.075	1.001	1.095	1.086	1.065	1.034		1.059	3	AVG	
Dinoseb		0.065	0.088	0.121	0.134	0.156	0.153		0.120	31	1STDEG	
Anthracene		1.080	1.044	1.128	1.120	1.134	1.104		1.102	3	AVG	
Carbazole		0.991	0.961	1.048	1.075	1.095	1.066		1.039	5	AVG	
Methyl parathion		0.187	0.202	0.235	0.235	0.235	0.224		0.220	9	AVG	
Ronnel		0.261	0.246	0.268	0.269	0.270	0.255		0.262	4	AVG	
Di-n-butylphthalate		1.155	1.097	1.246	1.244	1.264	1.228		1.206	5	AVG	
Parathion		0.123	0.125	0.148	0.149	0.152	0.153		0.142	10	AVG	
Fluoranthene	*	1.163	1.117	1.216	1.212	1.237	1.181		1.188	4	AVG	*
Benzidine		0.729	0.745	0.832	0.830	0.840	0.796		0.795	6	AVG	
Pyrene		1.164	1.137	1.296	1.250	1.309	1.338		1.249	7	AVG	
Butylbenzylphthalate		0.528	0.533	0.612	0.621	0.655	0.667		0.603	10	AVG	
3,3'-Dichlorobenzidine		0.449	0.430	0.489	0.504	0.500	0.485		0.476	6	AVG	
Benzo(a)anthracene		1.114	1.062	1.140	1.179	1.168	1.138		1.133	4	AVG	
Hexabromobenzene		0.009	0.010	0.010	0.010	0.011	0.011		0.010	6	AVG	
4,4'-Methylenebis(2-Chloroanil		0.219	0.208	0.233	0.239	0.241	0.236		0.229	6	AVG	
Chrysene		1.109	1.039	1.177	1.165	1.206	1.195		1.148	6	AVG	
bis(2-Ethylhexyl)phthalate		0.756	0.752	0.843	0.858	0.907	0.938		0.842	9	AVG	
6-Methylchrysene		0.830	0.791	0.900	0.938	0.948	0.959		0.894	8	AVG	
Di-n-octylphthalate	*	1.306	1.325	1.502	1.499	1.596	1.578		1.468	8	AVG	*
7,12-Dimethylbenz[a]anthracene		0.616	0.592	0.657	0.666	0.647	0.629		0.635	4	AVG	
Benzo(b)fluoranthene		1.244	1.479	1.373	1.310	1.354	1.603		1.394	9	AVG	
Benzo(k)fluoranthene		1.421	1.275	1.445	1.511	1.443	1.362		1.410	6	AVG	
Benzo(a)pyrene	*	1.291	1.186	1.320	1.347	1.313	1.302		1.293	4	AVG	*
3-Methylcholanthrene		0.709	0.662	0.747	0.769	0.764	0.755		0.734	6	AVG	
Dibenz(a,h)acridine		1.088	1.046	1.164	1.195	1.216	1.207		1.153	6	AVG	
Dibenz(a,j)acridine		1.128	1.070	1.208	1.249	1.215	1.196		1.178	6	AVG	
Indeno(1,2,3-cd)pyrene		1.586	1.497	1.651	1.691	1.693	1.661		1.630	5	AVG	
Dibenz(a,h)anthracene		1.258	1.179	1.311	1.361	1.346	1.320		1.296	5	AVG	
Benzo(g,h,i)perylene		1.365	1.278	1.415	1.434	1.418	1.400		1.385	4	AVG	
2-Fluorophenol		1.441	1.368	1.492	1.537	1.544	1.547		1.488	5	AVG	
Phenol-d5		1.858	1.776	1.961	2.017	2.012	2.013		1.939	5	AVG	

+ %RSD is less than or equal to 15%; however, value rounds to 15.

(1) Cannot be separated from Diphenylamine

0371

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date(s): 08/14/07 08/14/07

Calibration Times: 00:49 02:38

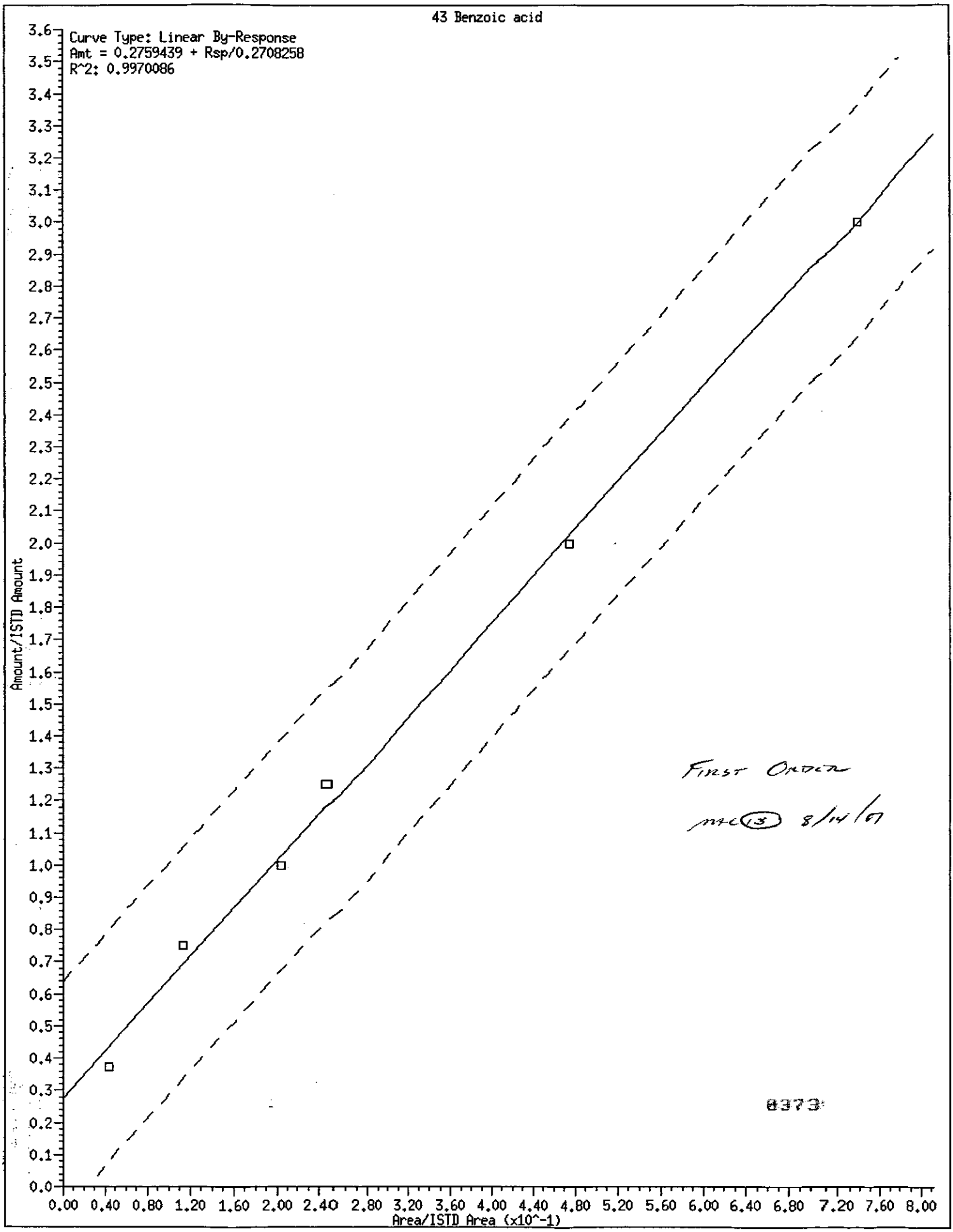
Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

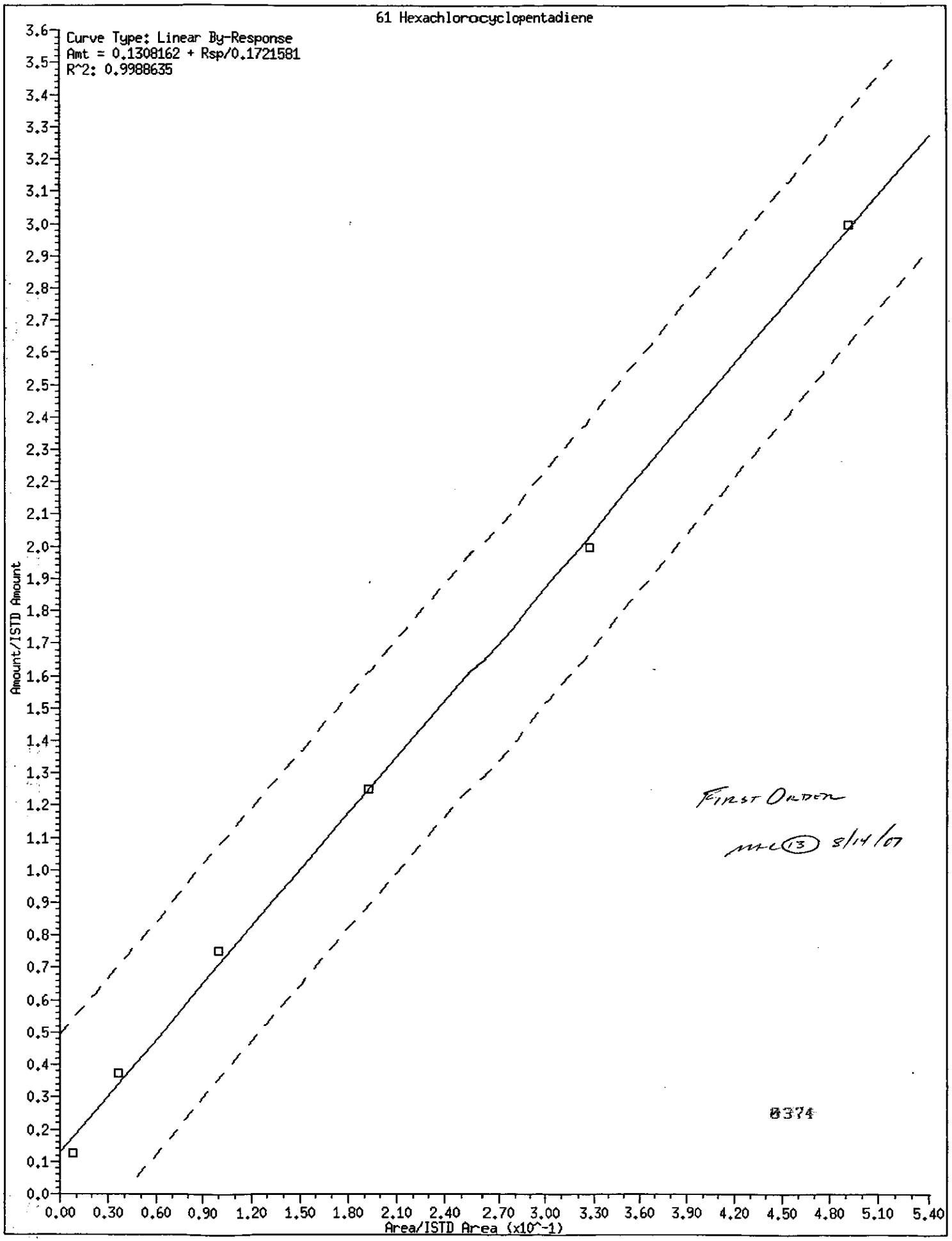
LAB FILE ID: RRF5 = ch0376.d RRF15 = ch0375.d RRF30 = ch0374.d
RRF50 = ch0373.d RRF80 = ch0371a.d RRF120 = ch0372.d

COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
Phenol-d6	1.858	1.776	1.961	2.017	2.012	2.013		1.939	5	AVG
Nitrobenzene-d5	0.371	0.330	0.361	0.367	0.371	0.362		0.360	4	AVG
2-Fluorobiphenyl	1.201	1.166	1.257	1.238	1.226	1.182		1.212	3	AVG
2,4,6-Tribromophenol	0.180	0.180	0.215	0.209	0.217	0.213		0.202	9	AVG
Terphenyl-d14	0.766	0.750	0.839	0.822	0.887	0.887		0.825	7	AVG
							Average %RSD		6	

0372

4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5 ,15, 30 standards.

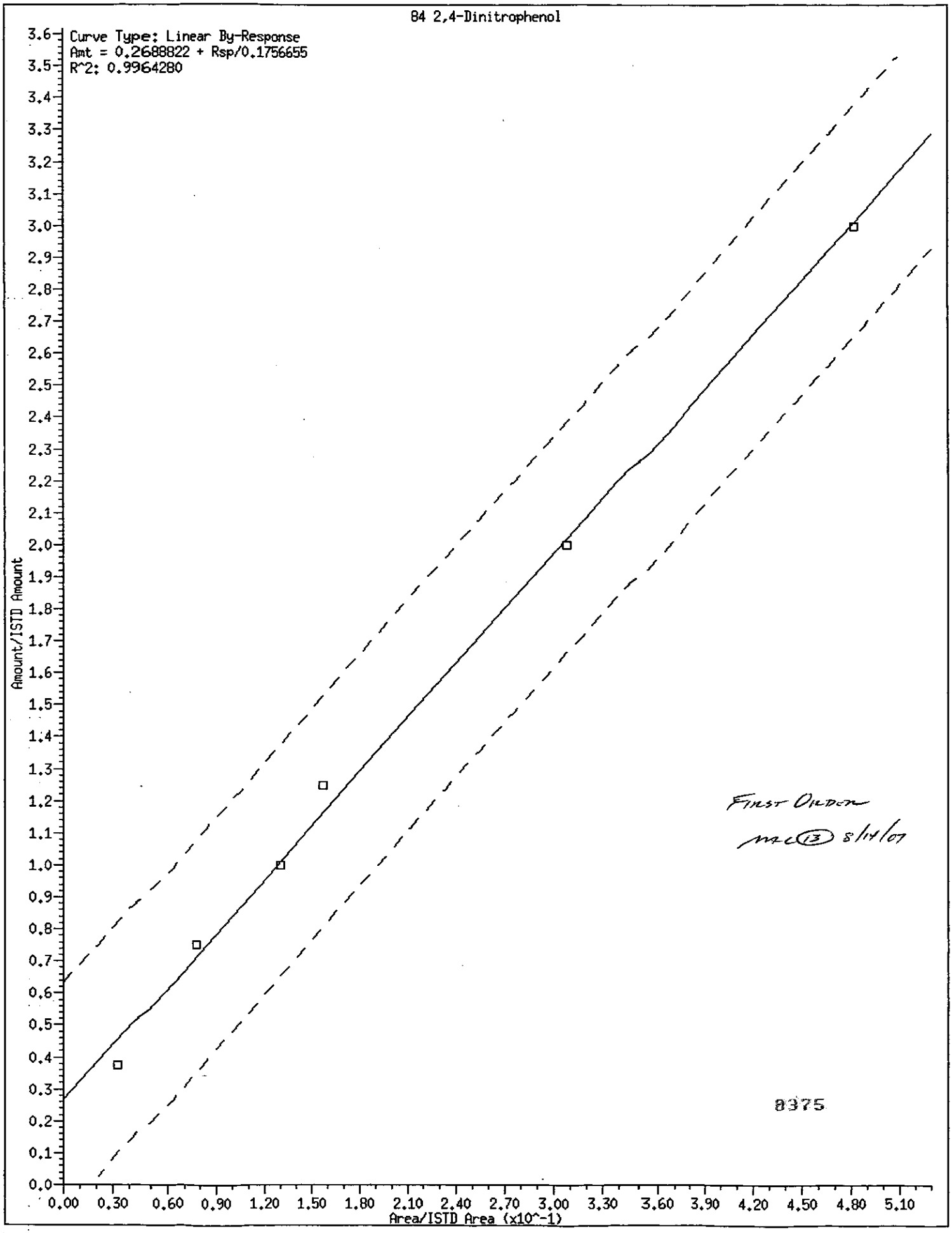

43 Benzoic acid
Curve Type: Linear By-Response
Amt = 0.2759439 + Rsp/0.2708258
R^2: 0.9970086
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00
First Order
mc (13) 8/14/07
0373



First Order

MC (13) 8/14/07

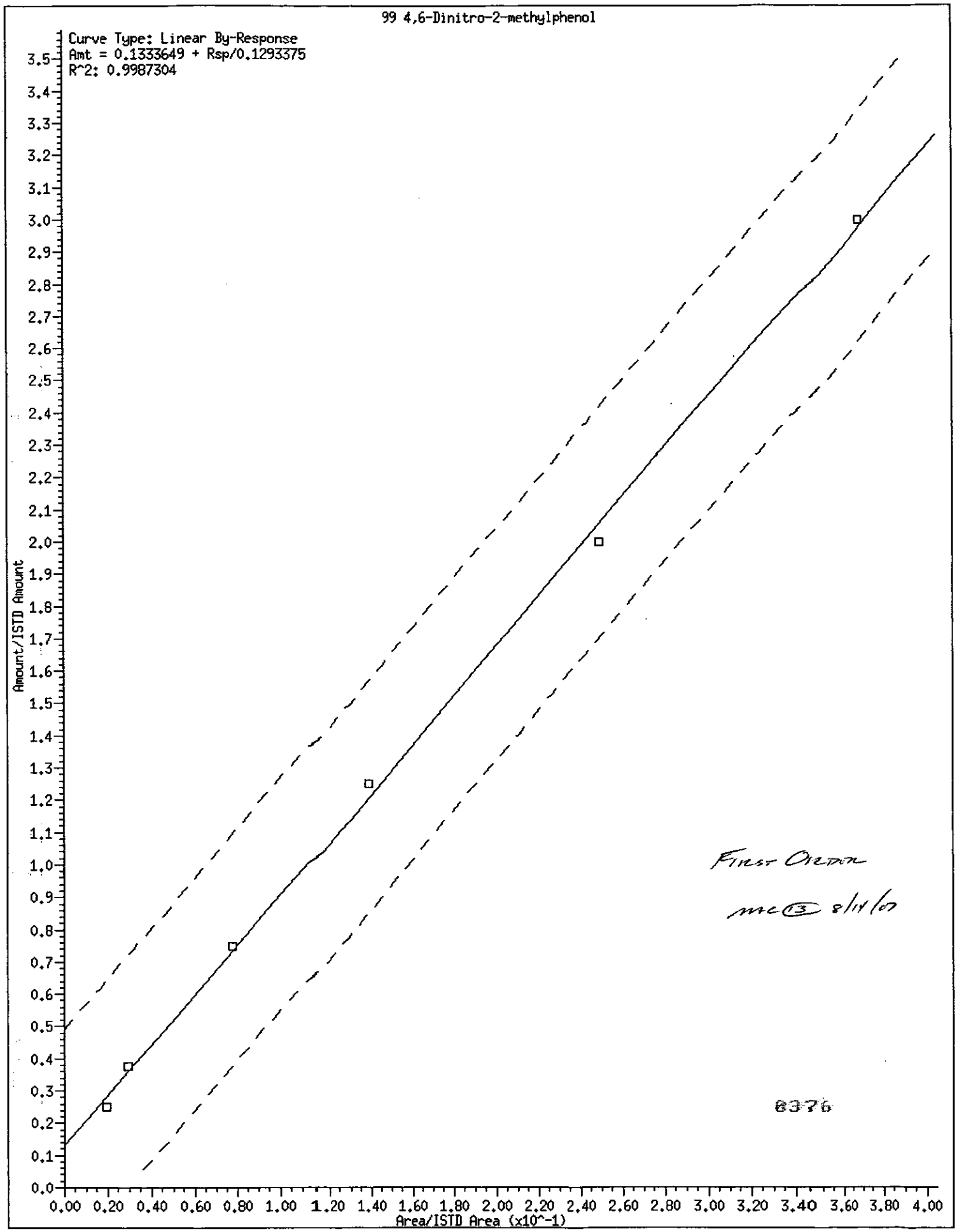
0374



First Origin

MAC (13) 8/14/07

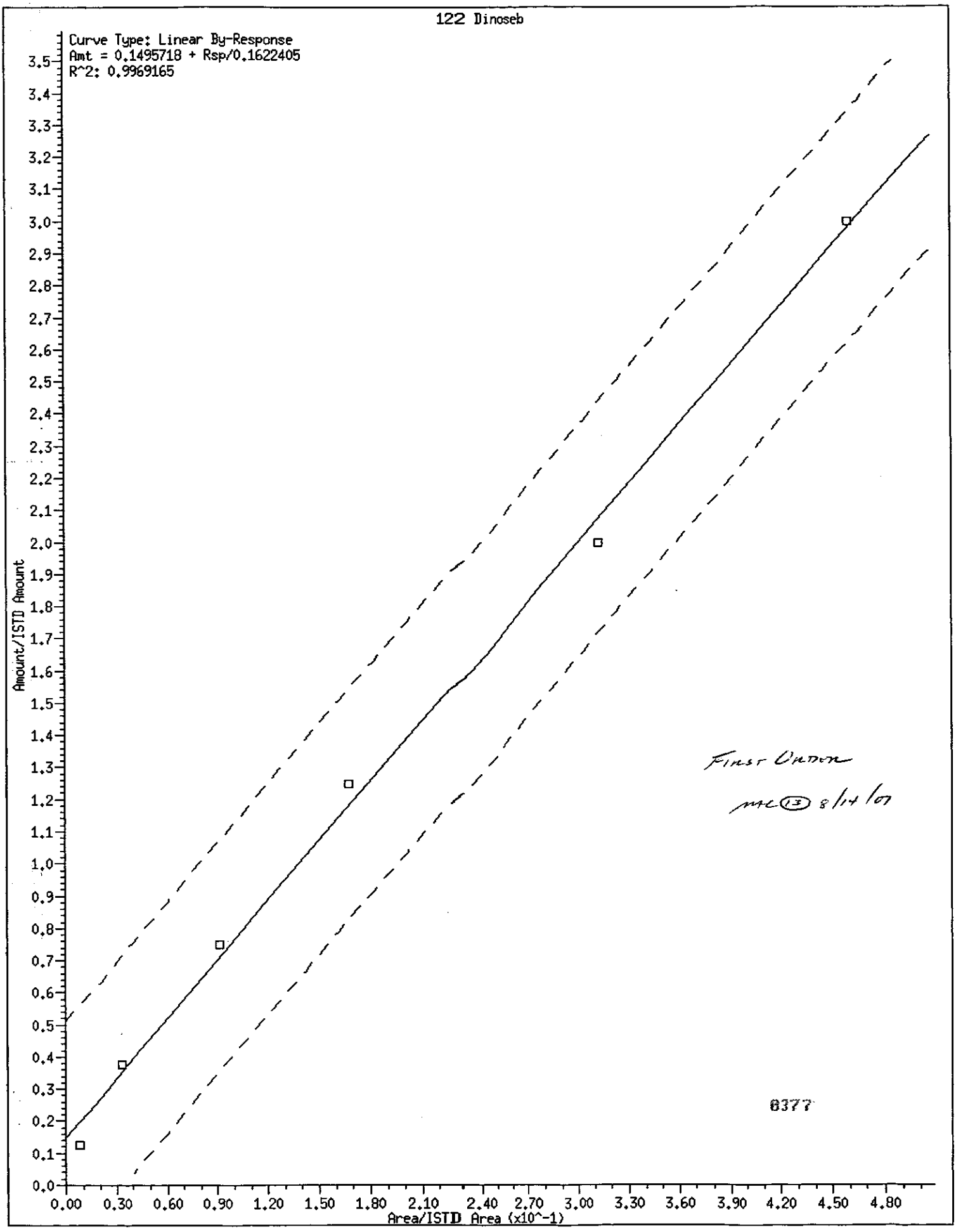
8375

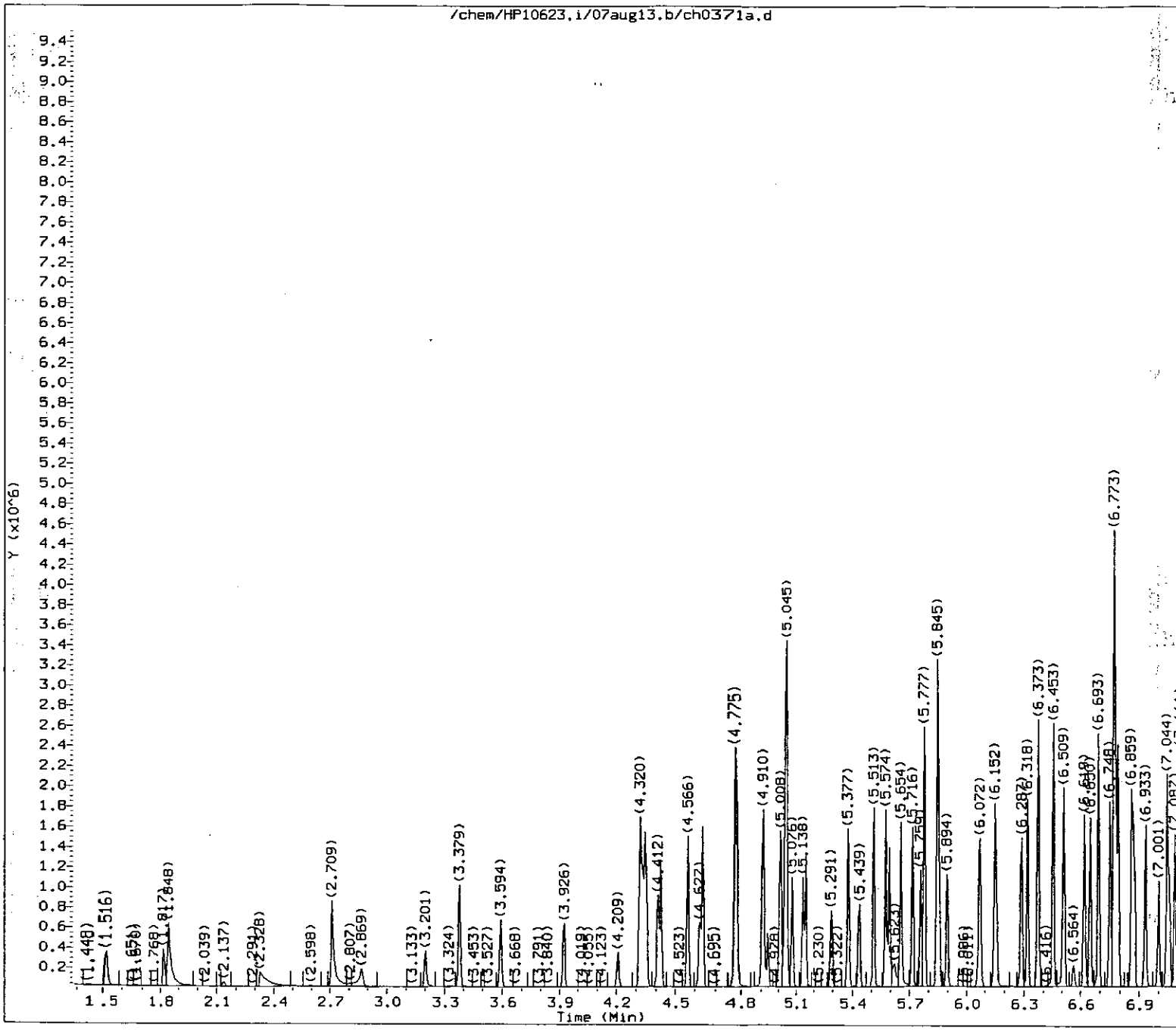


Finest Chemist

mc (13) 8/14/07

0376


122 Dinoseb
Curve Type: Linear By-Response
Amt = 0.1495718 + Rsp/0.1622405
R^2: 0.9969165
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50
4.80
First Union
MC (13) 8/14/07
0377



Quant Report

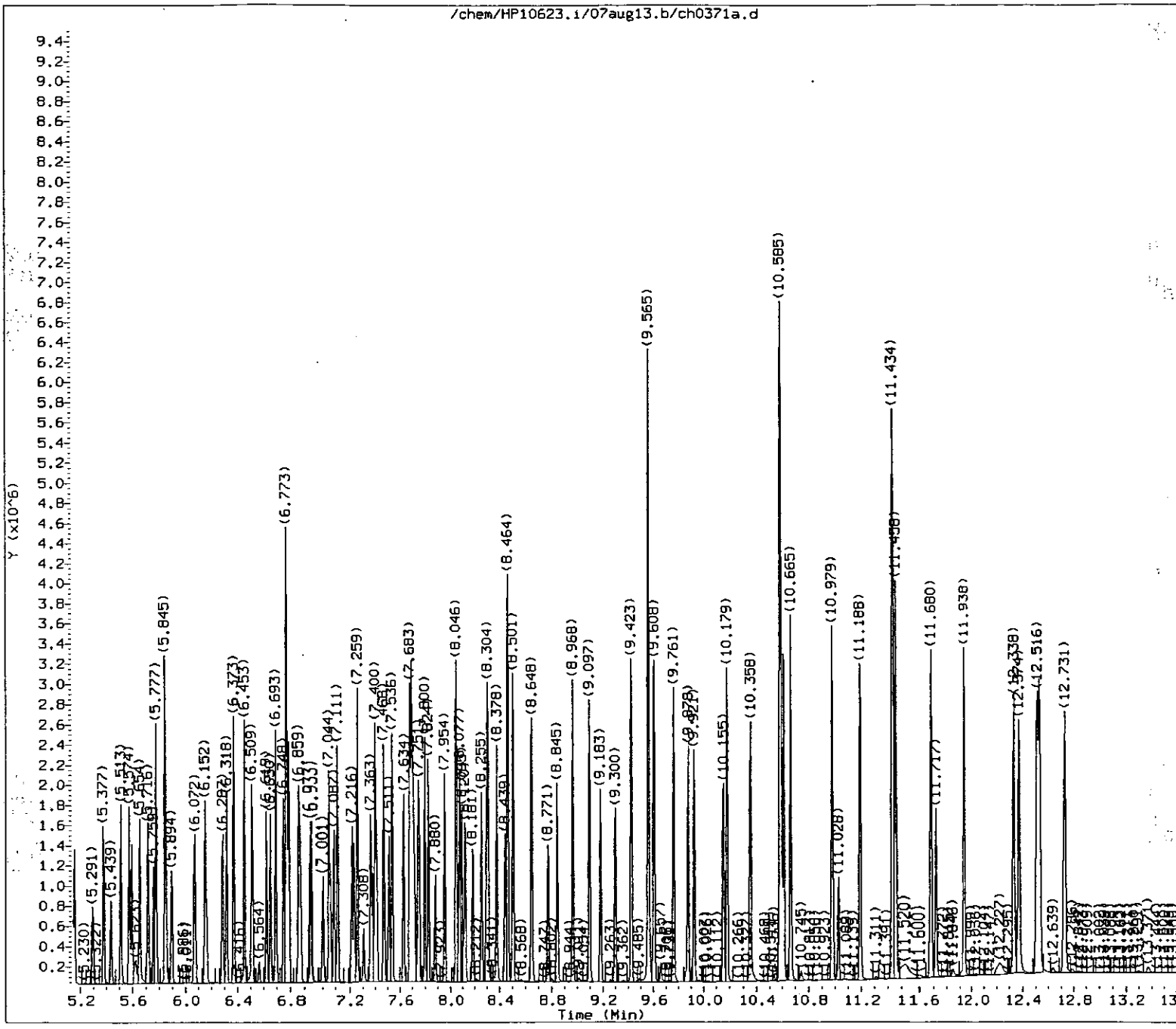
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

mc 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

mac 8279 (13) 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.516	88	109268	80.0000
2)	N-Nitrosodimethylamine	(1)	1.817	74	169353	80.0000
3)	Pyridine	(1)	1.848	79	301960	80.0000
5)	2-Picoline	(1)	2.709	93	276571	80.0000
15)	Phenol	(1)	4.344	94	375966	80.0000
16)	Aniline	(1)	4.320	93	470413	80.0000
18)	bis(2-Chloroethyl)ether	(1)	4.412	93	275174	80.0000
19)	2-Chlorophenol	(1)	4.424	128	274333	80.0000
20)	1,3-Dichlorobenzene	(1)	4.566	146	280796	80.0000
21)	1,4-Dichlorobenzene-d4	(1)	4.627	152	86305	40.0000
22)	1,4-Dichlorobenzene	(1)	4.640	146	285642	80.0000
23)	Benzyl alcohol	(1)	4.781	108	199980	80.0000
24)	1,2-Dichlorobenzene	(1)	4.775	146	272562	80.0000
25)	2-Methylphenol	(1)	4.910	108	271437	80.0000
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	272233	80.0000
27)	bis(2-Chloroisopropyl)ether	(1)	4.916	45	272233	80.0000
29)	Acetophenone	(1)	5.008	105	384709	80.0000
30)	N-Nitroso-di-n-propylamine	(1)	5.033	70	196449	80.0000
31)	4-Methylphenol	(1)	5.045	108	306051	80.0000
33)	o-Toluidine	(1)	5.039	106	442837	80.0000
34)	Hexachloroethane	(1)	5.076	117	99257	80.0000
36)	Nitrobenzene	(2)	5.156	77	288362	80.0000
38)	Isophorone	(2)	5.377	82	545982	80.0000
39)	2-Nitrophenol	(2)	5.439	139	146980	80.0000
40)	2,4-Dimethylphenol	(2)	5.513	107	278974	80.0000
42)	bis(2-Chloroethoxy)methane	(2)	5.593	93	290511	80.0000
43)	Benzoic acid	(2)	5.623	105	179159	80.0000
44)	2,4-Dichlorophenol	(2)	5.654	162	229433	80.0000
45)	1,2,4-Trichlorobenzene	(2)	5.716	180	227616	80.0000
46)	Naphthalene-d8	(2)	5.759	136	377538	40.0000
47)	Naphthalene	(2)	5.777	128	815968	80.0000
48)	4-Chloroaniline	(2)	5.845	127	349183	80.0000
49)	2,6-Dichlorophenol	(2)	5.845	162	217869	80.0000
51)	Hexachlorobutadiene	(2)	5.894	225	101305	80.0000
52)	Quinoline	(2)	6.072	129	566463	80.0000
53)	Caprolactam	(2)	6.158	113	106433	80.0000
55)	4-Chloro-3-methylphenol	(2)	6.287	107	253848	80.0000
58)	2-Methylnaphthalene	(2)	6.373	142	561124	80.0000
60)	1-Methylnaphthalene	(2)	6.453	142	528934	80.0000
61)	Hexachlorocyclopentadiene	(3)	6.503	237	76805	80.0000
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	211511	80.0000
64)	2,4,6-Trichlorophenol	(3)	6.619	196	160730	80.0000
65)	2,4,5-Trichlorophenol	(3)	6.650	196	186936	80.0000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.773	154	669410	80.0000
69) Diphenyl	(3)	6.773	154	669410	80.0000
70) 1,1'-Biphenyl	(3)	6.773	154	669410	80.0000
71) 2-Chloronaphthalene	(3)	6.773	162	710823M	80.0000
72) 1-Chloronaphthalene	(3)	6.792	162	507789M	80.0000
73) Diphenyl ether	(3)	6.859	170	357691	80.0000
74) 2-Nitroaniline	(3)	6.871	138	207075	80.0000
77) Dimethylphthalate	(3)	7.044	163	606126	80.0000
79) 2,6-Dinitrotoluene	(3)	7.087	165	151799	80.0000
80) Acenaphthylene	(3)	7.111	152	786962	80.0000
81) 3-Nitroaniline	(3)	7.216	138	183051	80.0000
82) Acenaphthene-d10	(3)	7.228	164	234596	40.0000
83) Acenaphthene	(3)	7.259	153	536826	80.0000
84) 2,4-Dinitrophenol	(3)	7.308	184	72216	80.0000
85) Pentachlorobenzene	(3)	7.363	250	193654	80.0000
86) 4-Nitrophenol	(3)	7.382	109	96028	80.0000
87) Dibenzofuran	(3)	7.400	168	760831	80.0000
88) 2,4-Dinitrotoluene	(3)	7.413	165	199670	80.0000
90) 1-Naphthylamine	(3)	7.468	143	599661	80.0000
91) 2,3,4,6-Tetrachlorophenol	(3)	7.511	232	133421	80.0000
92) 2-Naphthylamine	(3)	7.536	143	630083	80.0000
93) Diethylphthalate	(3)	7.634	149	629798	80.0000
94) Fluorene	(3)	7.683	166	642266	80.0000
96) 4-Chlorophenyl-phenylether	(3)	7.702	204	268162	80.0000
98) 4-Nitroaniline	(3)	7.720	138	204445	80.0000
99) 4,6-Dinitro-2-methylphenol	(4)	7.745	198	109847	80.0000
102) N-Nitrosodiphenylamine	(4)	7.800	169	467399	80.0000
103) 1,2-Diphenylhydrazine	(4)	7.824	77	614867	80.0000
108) Phorate	(4)	8.046	75	524681	80.0000
110) 4-Bromophenyl-phenylether	(4)	8.095	248	166650	80.0000
112) Hexachlorobenzene	(4)	8.126	284	189890	80.0000
116) Pentachlorophenol	(4)	8.298	266	116105	80.0000
120) Phenanthrene-d10	(4)	8.439	188	440967	40.0000
121) Phenanthrene	(4)	8.464	178	939164	80.0000
122) Dinoseb	(4)	8.464	211	137696	80.0000
124) Anthracene	(4)	8.501	178	1000280	80.0000
125) Carbazole	(4)	8.648	167	965414	80.0000
126) Methyl parathion	(4)	8.771	109	207208	80.0000
127) Ronnel	(4)	8.845	285	238231	80.0000
128) Di-n-butylphthalate	(4)	8.968	149	1114902	80.0000
129) Parathion	(4)	9.097	109	133613	80.0000
134) Fluoranthene	(4)	9.423	202	1091199	80.0000
135) Benzidine	(5)	9.565	184	2136663	240.0000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

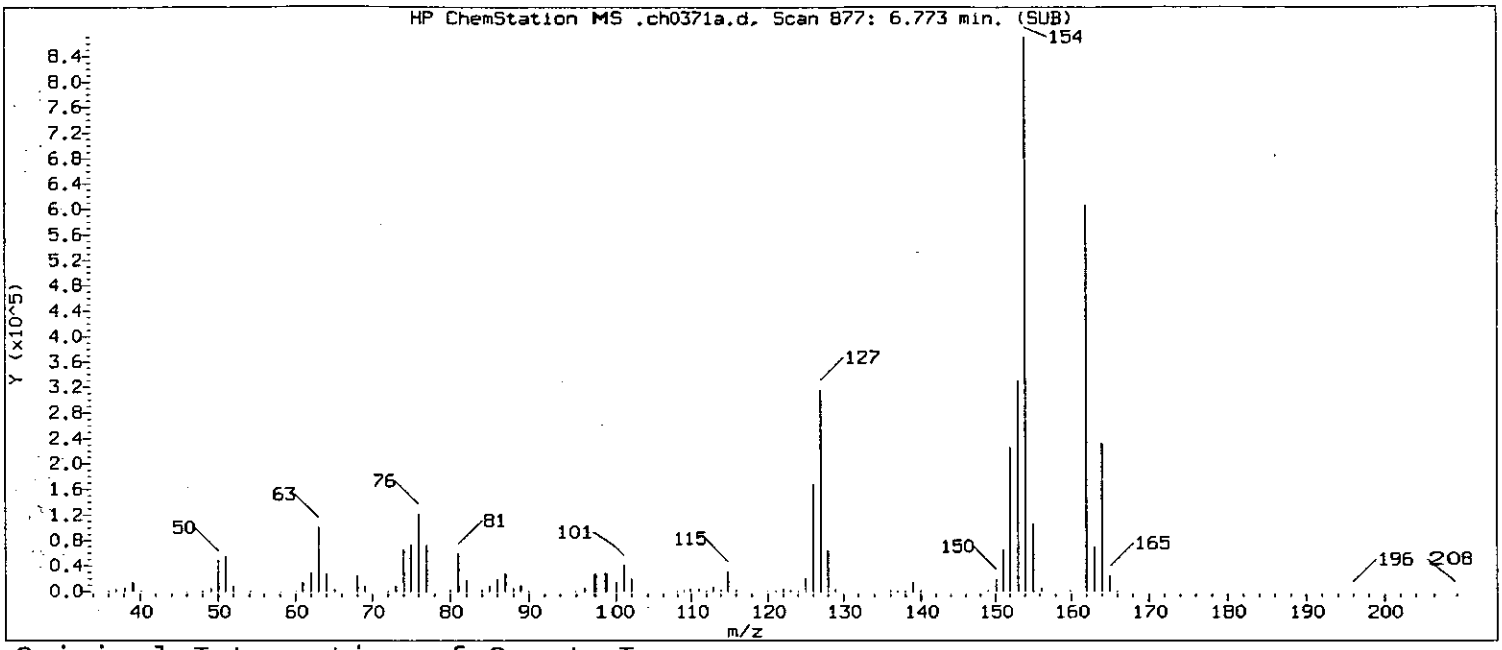
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

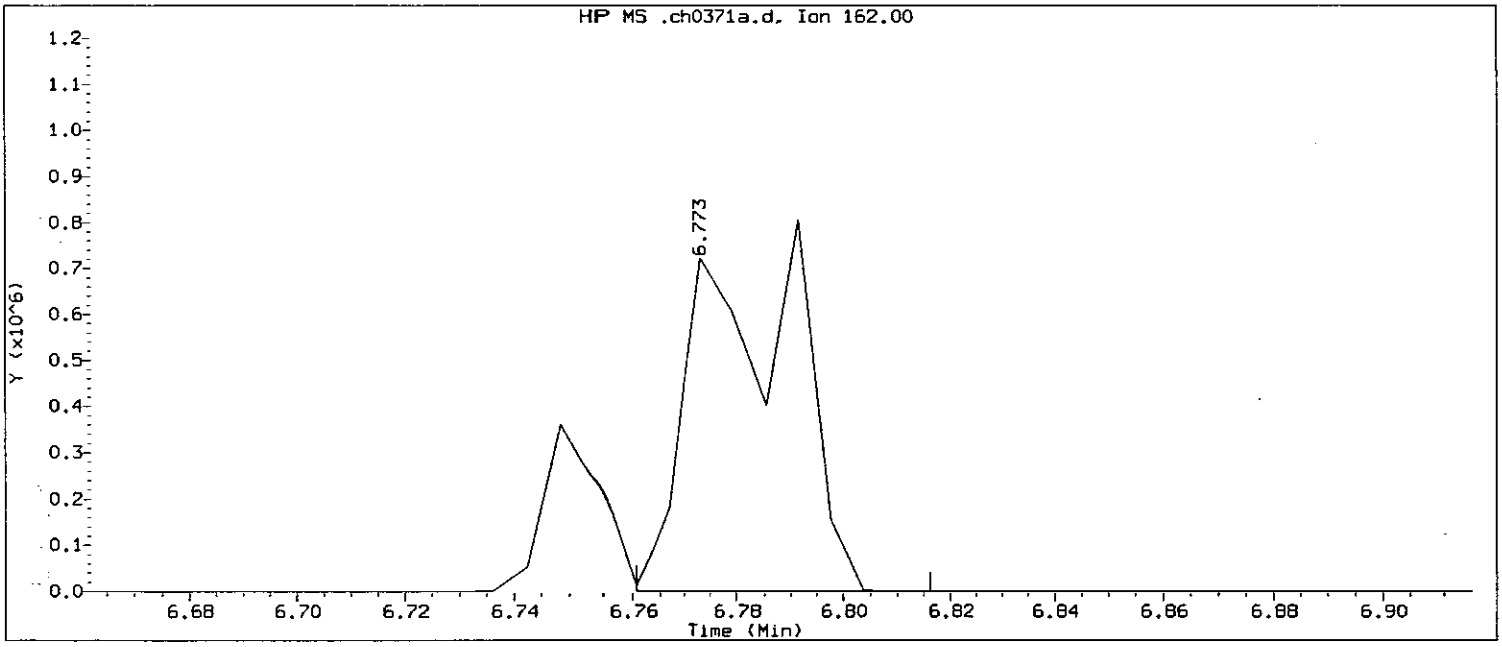
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.608	202	1110002	80.0000
143)	Butylbenzylphthalate	(5)	10.179	149	555634	80.0000
145)	3,3'-Dichlorobenzidine	(5)	10.579	252	423570	80.0000
146)	Benzo(a)anthracene	(5)	10.585	228	990354	80.0000
147)	Hexabromobenzene	(5)	10.591	552	8921	80.0000
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.591	231	203936	80.0000
149)	Chrysene-d12	(5)	10.591	240	423893	40.0000
150)	Chrysene	(5)	10.616	228	1022595	80.0000
151)	bis(2-Ethylhexyl)phthalate	(5)	10.665	149	769093	80.0000
152)	6-Methylchrysene	(5)	10.979	242	803590	80.0000
156)	Di-n-octylphthalate	(6)	11.188	149	1385648	80.0000
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.434	256	561663	80.0000
158)	Benzo(b)fluoranthene	(6)	11.434	252	1175772	80.0000
159)	Benzo(k)fluoranthene	(6)	11.458	252	1253231	80.0000
160)	Benzo(a)pyrene	(6)	11.680	252	1139672M	80.0000
161)	Perylene-d12	(6)	11.717	264	434127	40.0000
162)	3-Methylcholanthrene	(6)	11.938	268	663251	80.0000
166)	Dibenz(a,h)acridine	(6)	12.338	279	1055788	80.0000
167)	Dibenz(a,j)acridine	(6)	12.374	279	1055001	80.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.516	276	1470126	80.0000
169)	Dibenz(a,h)anthracene	(6)	12.534	278	1168310	80.0000
170)	Benzo(g,h,i)perylene	(6)	12.731	276	1230983	80.0000
9)	2-Fluorophenol	(1)	3.379	112	266459	80.0000
13)	Phenol-d5	(1)	4.332	99	347345	80.0000
14)	Phenol-d6	(1)	4.332	99	347345	80.0000
35)	Nitrobenzene-d5	(2)	5.138	82	280498	80.0000
66)	2-Fluorobiphenyl	(3)	6.693	172	575037	80.0000
104)	2,4,6-Tribromophenol	(3)	7.880	330	101606	80.0000
138)	Terphenyl-d14	(5)	9.761	244	752270	80.0000

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 01:04
Date, time and analyst ID of latest file update: 14-Aug-2007 01:04 Automation

Sample Name: SSTD080 Lab Sample ID: STD2187

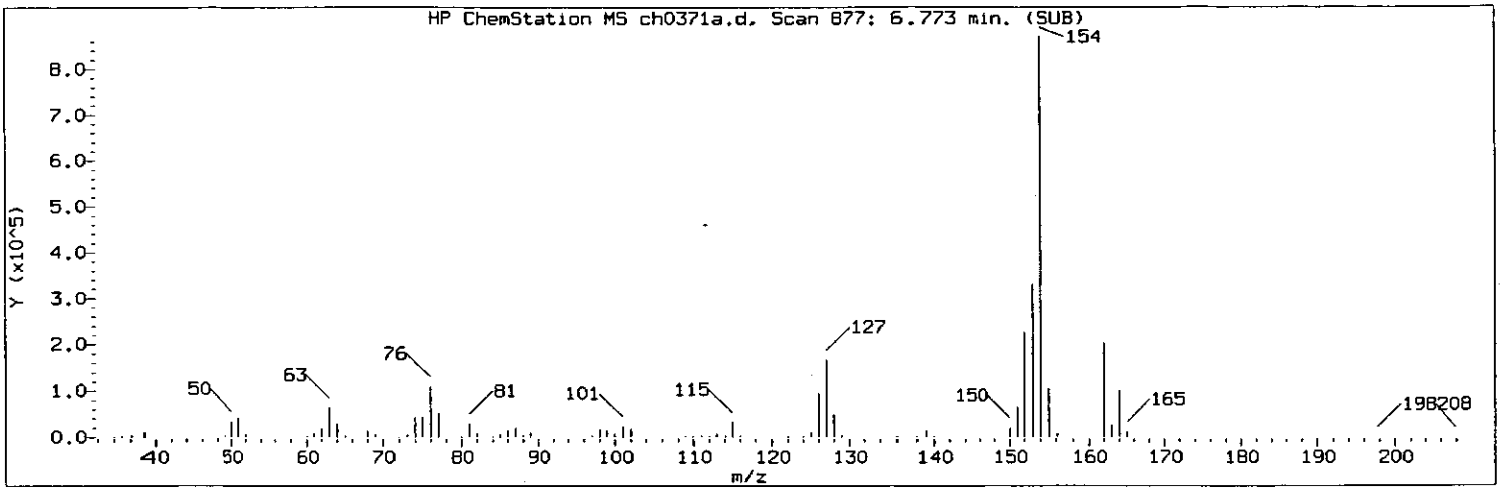
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 1064237
Concentration (ng/ul) : 128.5265
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 40 Y at integration end: 41

mc (3) 8/14/07

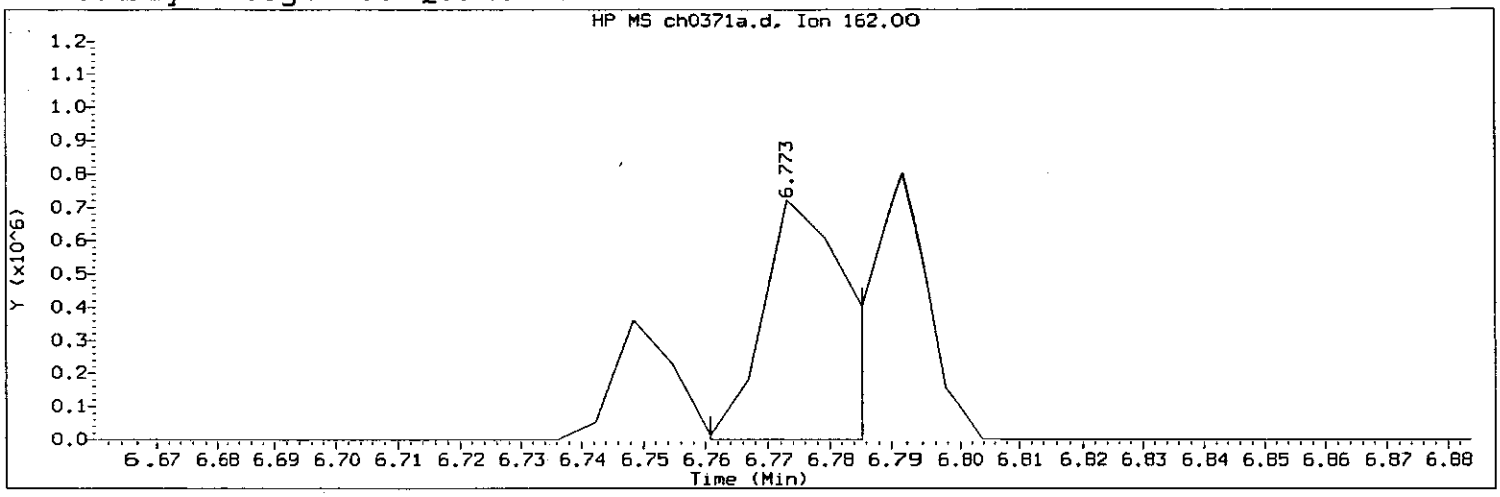
8383

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0371a.d, generated on 08/14/2007 at 03:18

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area (flag) : 710823 M
Concentration (ng/ul) : 80.0000
Integration start scan : 874 Integration stop scan: 878
Y at integration start : 40 Y at integration end: 40

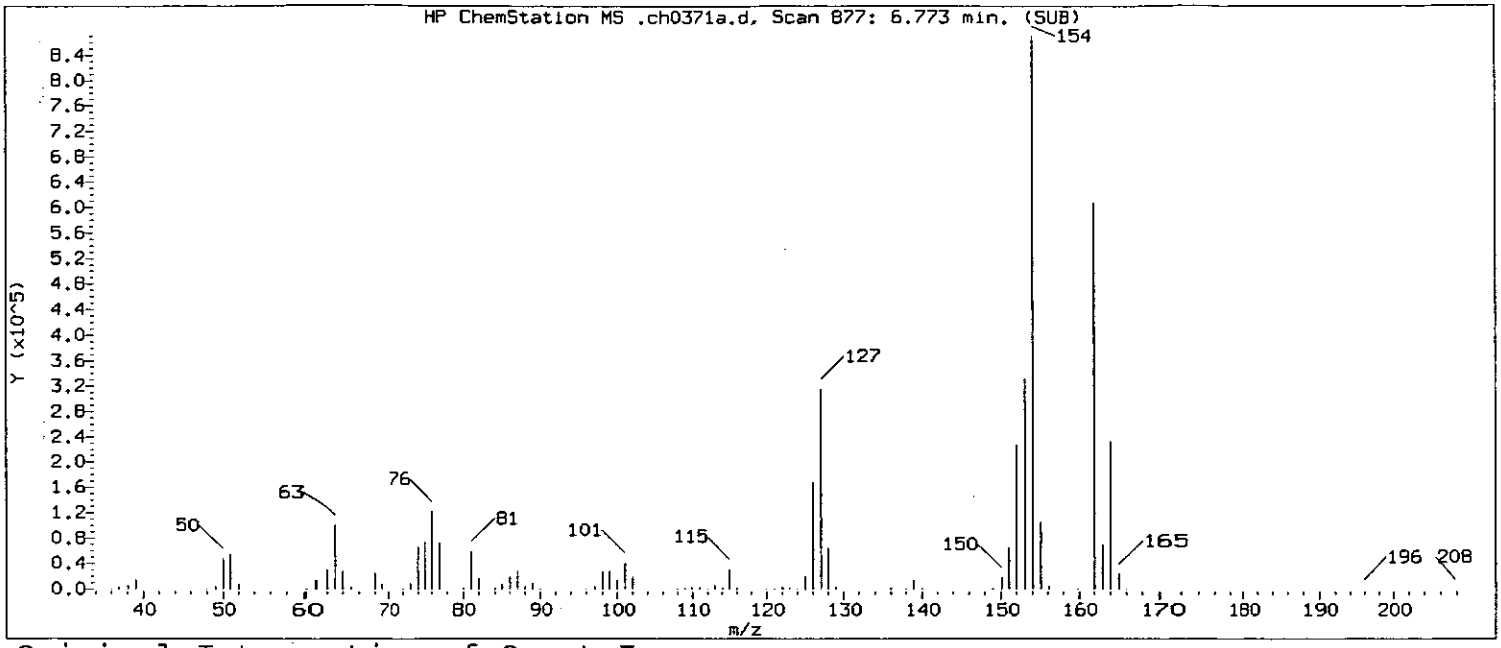
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(13) 8/14/07

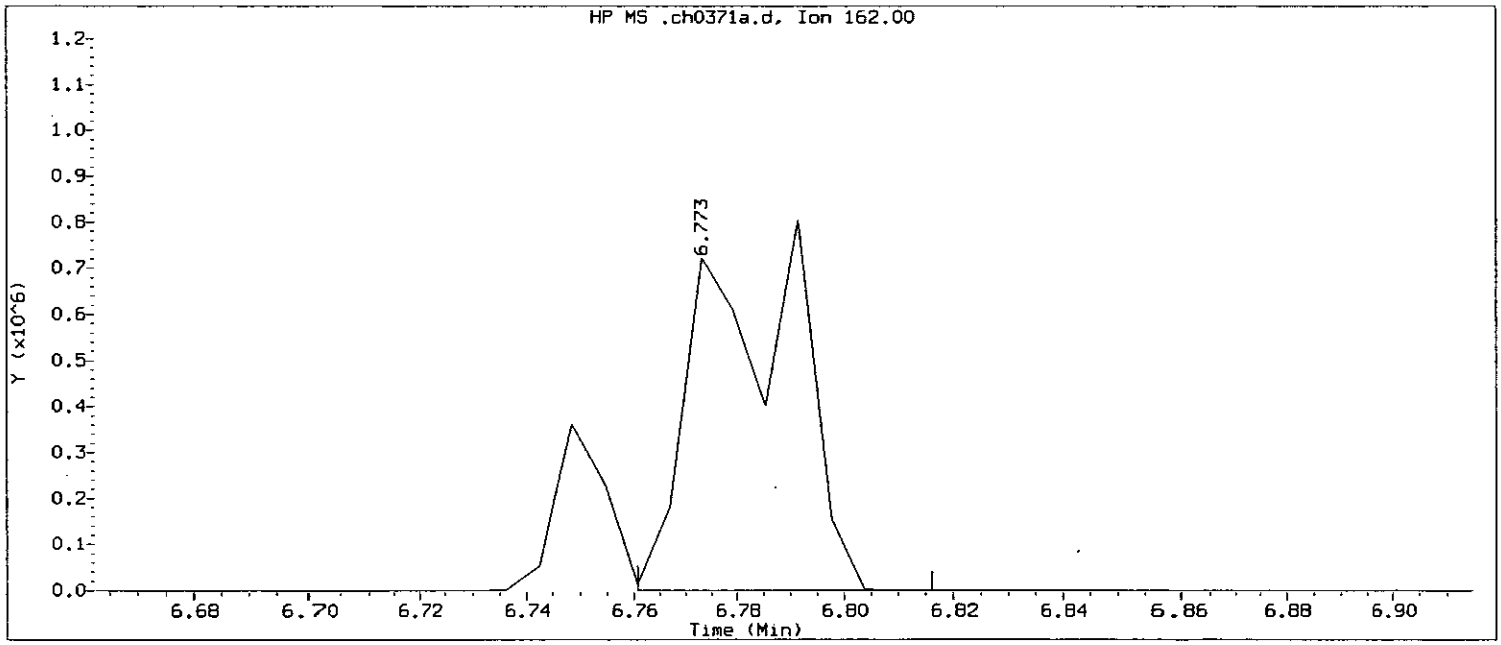
8384

GC/MS audit/management approval: [signature] 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 01:04
Date, time and analyst ID of latest file update: 14-Aug-2007 01:04 Automation

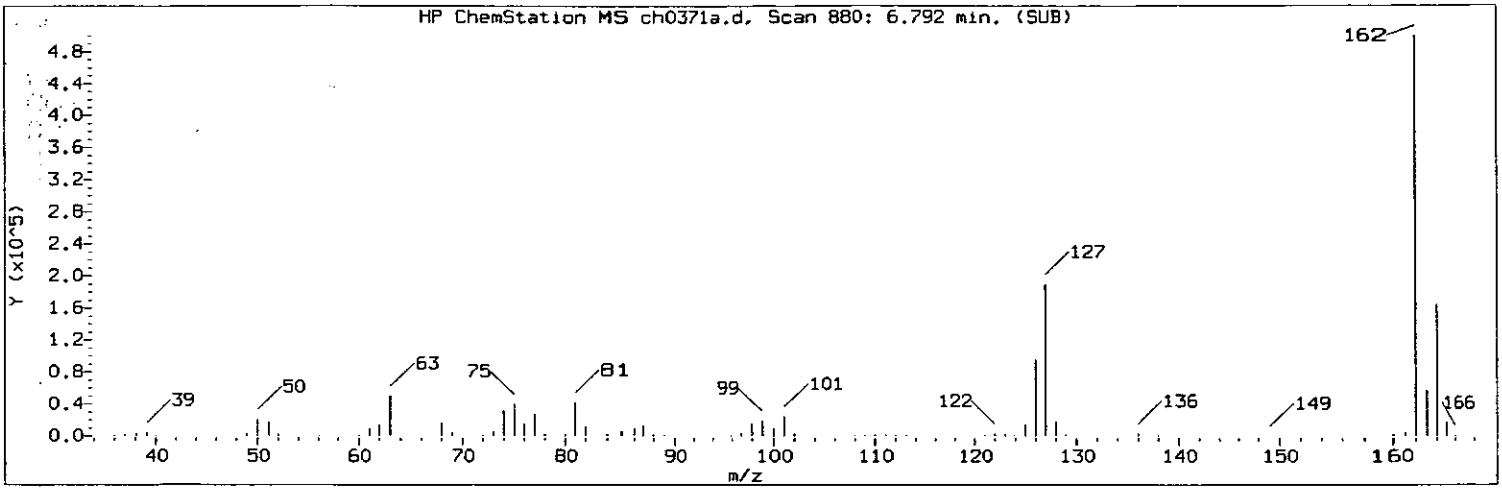
Sample Name: SSTD080 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 1064203
Concentration (ng/ul) : 163.6861
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 59 Y at integration end: 64

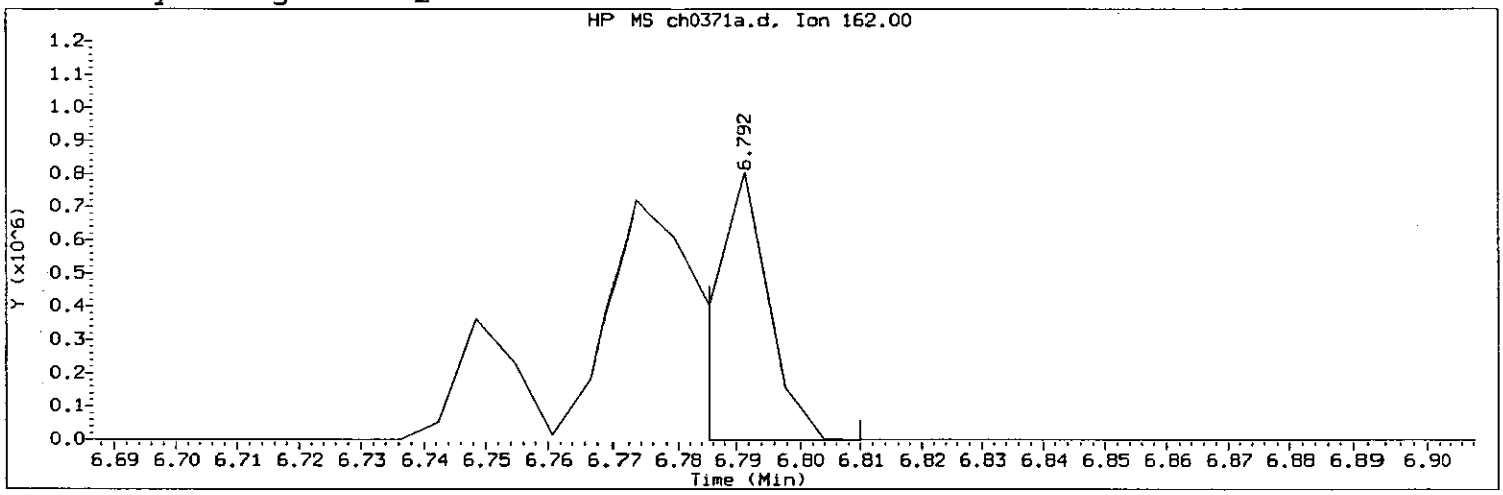
mac (3) 8/14/07
8385

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0371a.d, generated on 08/14/2007 at 03:18

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 880
Retention Time (minutes): 6.792
Quant Ion : 162
Area (flag) : 507789 M
Concentration (ng/ul) : 80.0000
Integration start scan : 878 Integration stop scan: 882
Y at integration start : -1933 Y at integration end: -1933

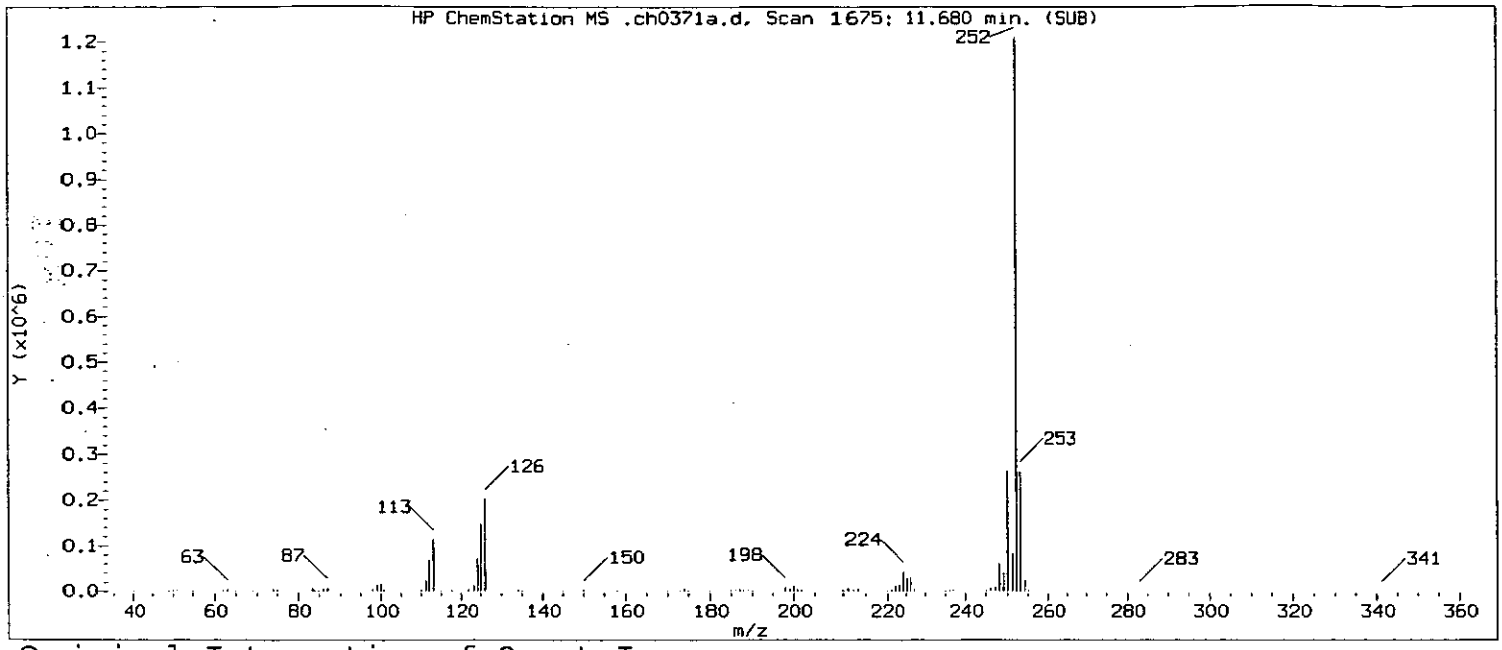
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc 8/14/07

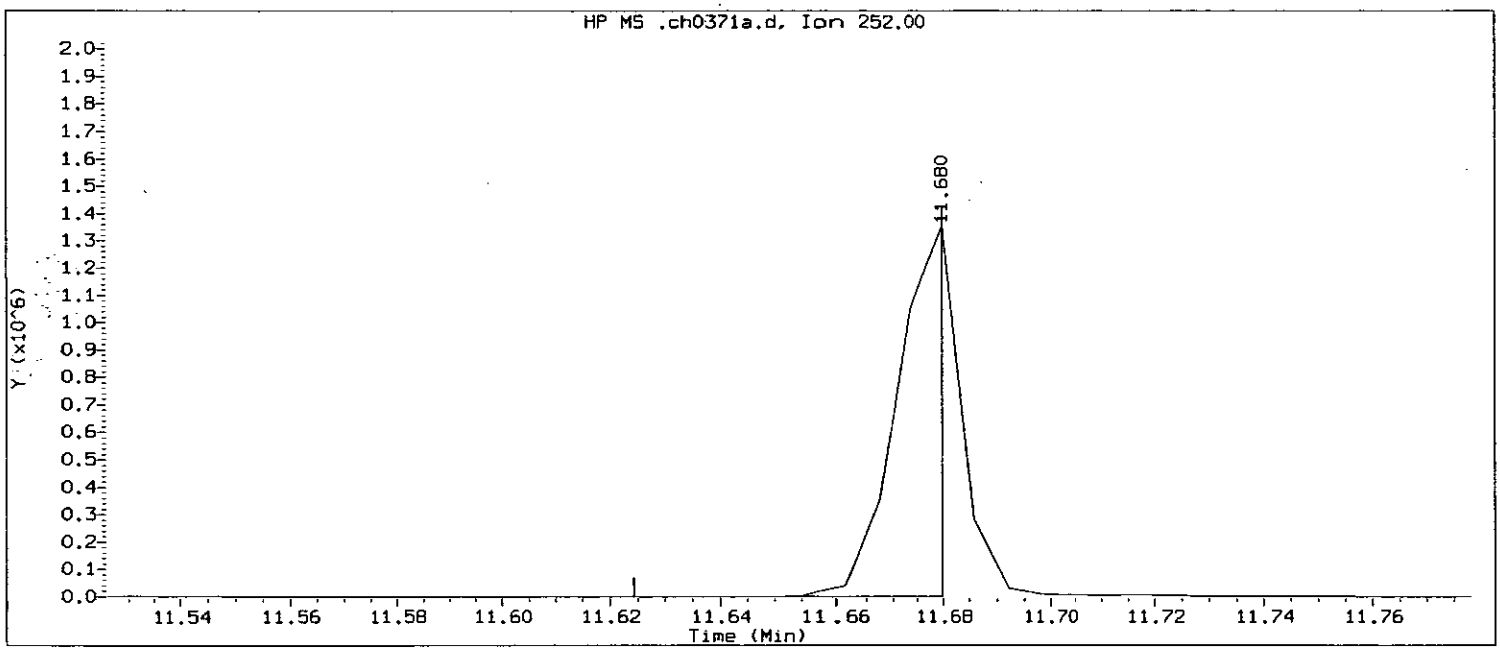
0386

GC/MS audit/management approval: 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 01:04
Date, time and analyst ID of latest file update: 14-Aug-2007 01:04 Automation

Sample Name: SSTD080 Lab Sample ID: STD2187

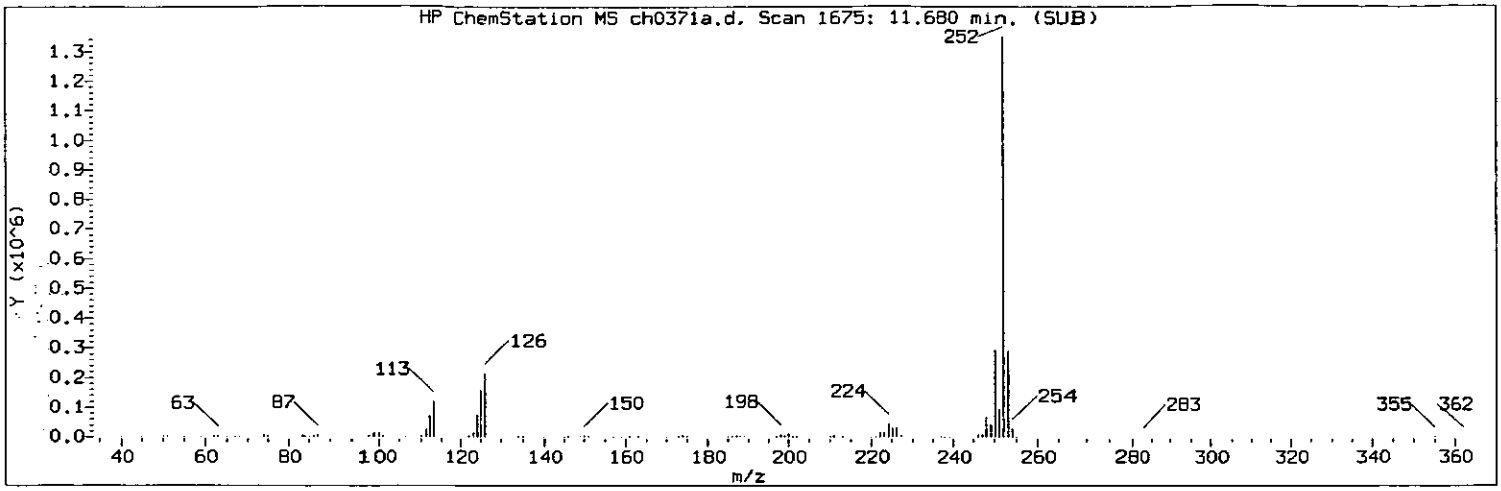
Compound Number	:	160
Compound Name	:	Benzo(a)pyrene
Scan Number	:	1675
Retention Time (minutes)	:	11.680
Quant Ion	:	252
Area	:	779858
Concentration (ng/ul)	:	54.4294
Integration start scan	:	1665
Integration stop scan	:	1674
Y at integration start	:	349
Y at integration end	:	349

mc (3) 8/14/07

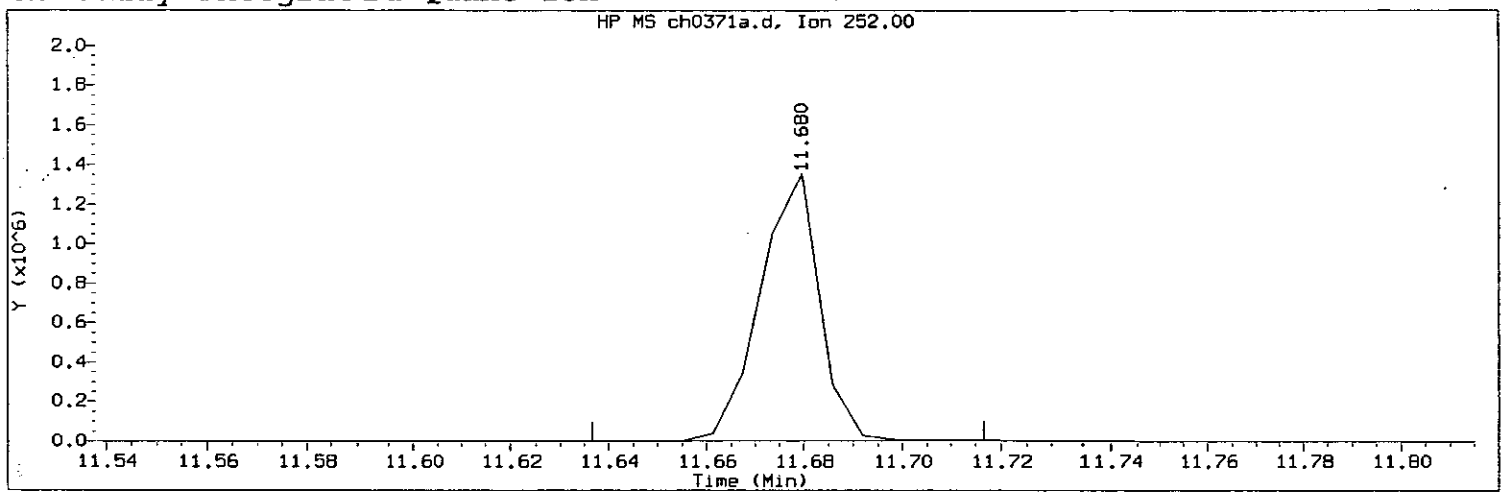
0387

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0371a.d, generated on 08/14/2007 at 03:18

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0371a.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 00:49 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:18
Date, time and analyst ID of latest file update: 14-Aug-2007 03:18 mac00013

Sample Name: SSTD080 Lab Sample ID: STD2187

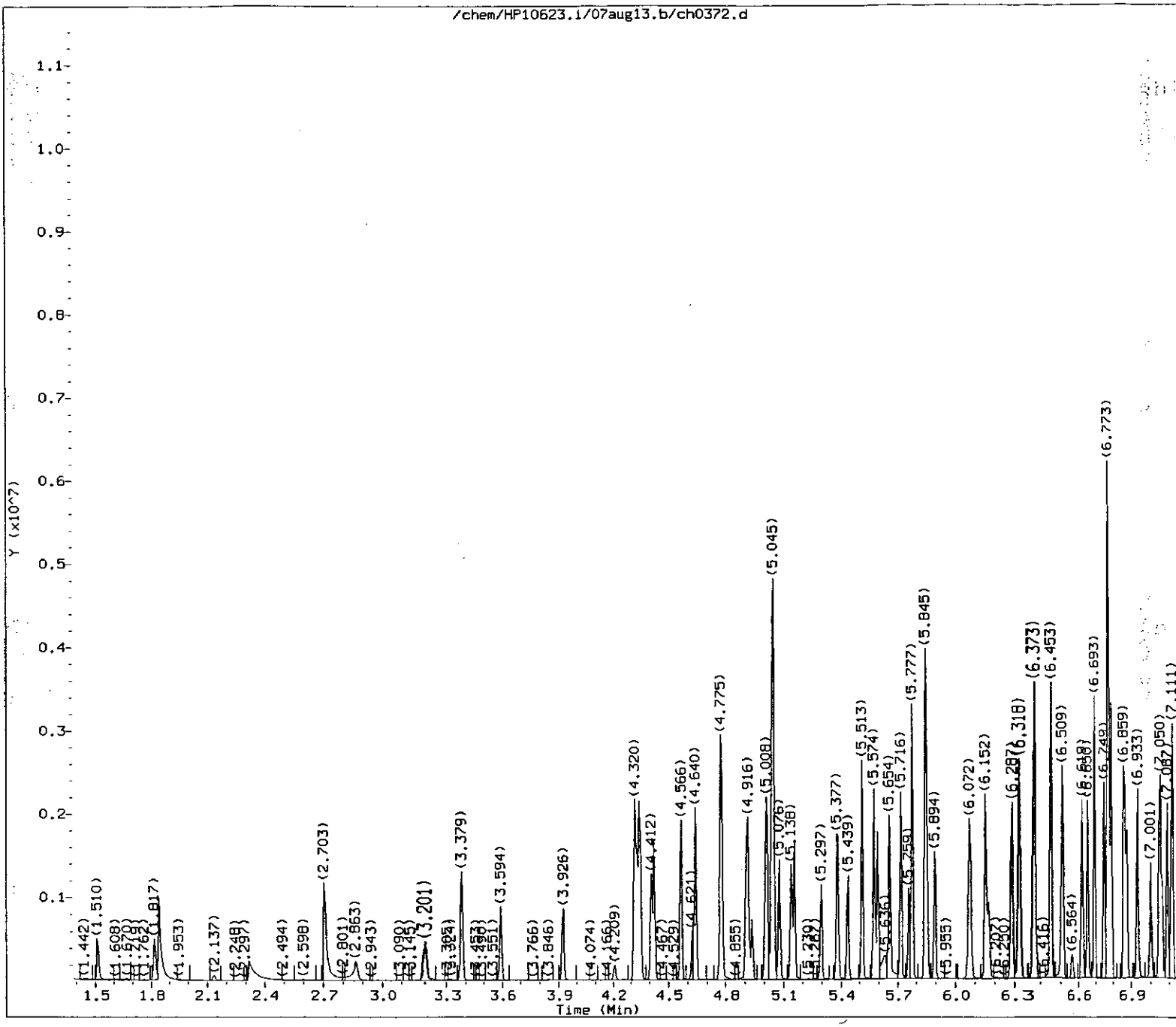
Compound Number : 160
Compound Name : Benzo(a)pyrene
Scan Number : 1675
Retention Time (minutes): 11.680
Quant Ion : 252
Area (flag) : 1139672 M
Concentration (ng/ul) : 80.0000
Integration start scan : 1667 Integration stop scan: 1680
Y at integration start : 462 Y at integration end: 6213

Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac(13) 8/14/07

0300

GC/MS audit/management approval: mm 8/14/07



Quant Report

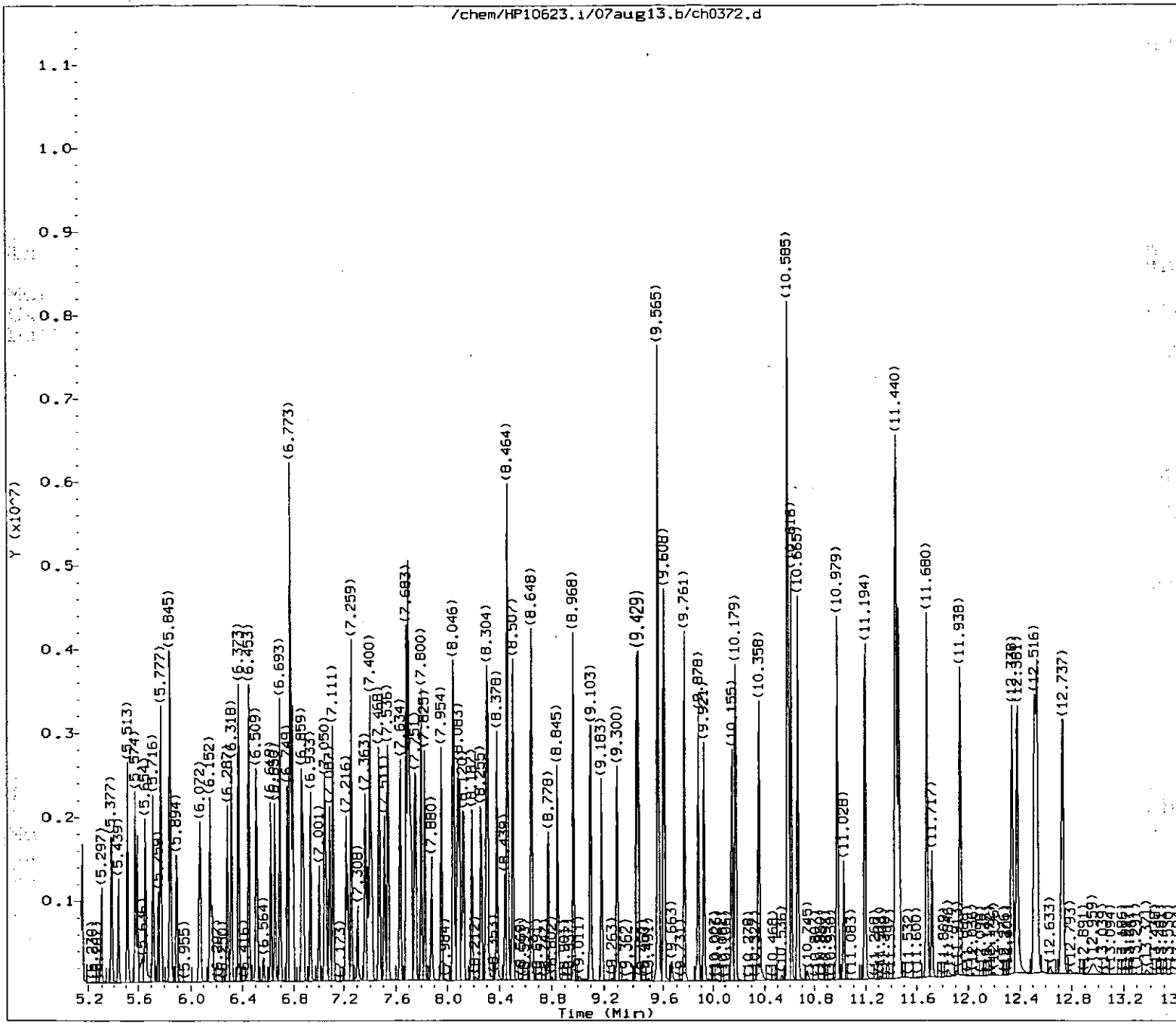
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

mc 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

8398
mc (3) 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.510	88	142506	118.9841
2)	N-Nitrosodimethylamine	(1)	1.817	74	234267	122.5174
3)	Pyridine	(1)	1.842	79	401188	120.0974
5)	2-Picoline	(1)	2.703	93	407895	126.3558
15)	Phenol	(1)	4.344	94	494892	119.5397
16)	Aniline	(1)	4.320	93	622861	119.8920
18)	bis(2-Chloroethyl)ether	(1)	4.412	93	360146	119.1956
19)	2-Chlorophenol	(1)	4.424	128	370622	121.0996
20)	1,3-Dichlorobenzene	(1)	4.566	146	371569	119.8556
21)	1,4-Dichlorobenzene-d4	(1)	4.621	152	76320	40.0000
22)	1,4-Dichlorobenzene	(1)	4.640	146	382538	120.5746
23)	Benzyl alcohol	(1)	4.781	108	269022	120.8438
24)	1,2-Dichlorobenzene	(1)	4.775	146	358223	119.4466
25)	2-Methylphenol	(1)	4.916	108	364927	120.8073
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	359067	119.6603
27)	bis(2-Chloroisopropyl)ether	(1)	4.916	45	359067	119.6603
29)	Acetophenone	(1)	5.015	105	516665	120.7437
30)	N-Nitroso-di-n-propylamine	(1)	5.039	70	258180	119.4445
31)	4-Methylphenol	(1)	5.045	108	401489	119.3350
33)	o-Toluidine	(1)	5.039	106	581441	119.3877
34)	Hexachloroethane	(1)	5.076	117	129966	119.2229
36)	Nitrobenzene	(2)	5.156	77	384582	118.2034
38)	Isophorone	(2)	5.377	82	731934	118.5132
39)	2-Nitrophenol	(2)	5.439	139	198234	118.8760
40)	2,4-Dimethylphenol	(2)	5.513	107	372515	118.2765
42)	bis(2-Chloroethoxy)methane	(2)	5.593	93	393357	119.1114
43)	Benzoic acid	(2)	5.636	105	255250	120.0000
44)	2,4-Dichlorophenol	(2)	5.654	162	305079	118.0246
45)	1,2,4-Trichlorobenzene	(2)	5.716	180	298769	117.2480
46)	Naphthalene-d8	(2)	5.759	136	345880	40.0000
47)	Naphthalene	(2)	5.777	128	1084754	118.0110
48)	4-Chloroaniline	(2)	5.845	127	471318	118.9231
49)	2,6-Dichlorophenol	(2)	5.845	162	292533	118.6079
51)	Hexachlorobutadiene	(2)	5.894	225	136391	118.7703
52)	Quinoline	(2)	6.072	129	768997	119.2674
53)	Caprolactam	(2)	6.171	113	142556	118.4601
55)	4-Chloro-3-methylphenol	(2)	6.287	107	344519	119.2517
58)	2-Methylnaphthalene	(2)	6.373	142	740145	117.5414
60)	1-Methylnaphthalene	(2)	6.453	142	720026	119.4323
61)	Hexachlorocyclopentadiene	(3)	6.503	237	106712	120.0964
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.515	216	281686	117.5558
64)	2,4,6-Trichlorophenol	(3)	6.619	196	214124	117.5746
65)	2,4,5-Trichlorophenol	(3)	6.650	196	250697	117.9734

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.773	154	886895	117.2448
69)	Diphenyl	(3)	6.773	154	886895	117.2448
70)	1,1'-Biphenyl	(3)	6.773	154	886895	117.2448
71)	2-Chloronaphthalene	(3)	6.779	162	925139M	116.1771
72)	1-Chloronaphthalene	(3)	6.792	162	697490M	119.4099
73)	Diphenyl ether	(3)	6.859	170	480695	118.0985
74)	2-Nitroaniline	(3)	6.878	138	287928	120.1423
77)	Dimethylphthalate	(3)	7.050	163	828501	119.1164
79)	2,6-Dinitrotoluene	(3)	7.087	165	200424	117.0378
80)	Acenaphthylene	(3)	7.111	152	1053424	117.8620
81)	3-Nitroaniline	(3)	7.216	138	244848	117.8171
82)	Acenaphthene-d10	(3)	7.228	164	216948	40.0000
83)	Acenaphthene	(3)	7.259	153	722823	118.2141
84)	2,4-Dinitrophenol	(3)	7.308	184	104565	120.0000
85)	Pentachlorobenzene	(3)	7.363	250	267402	119.7253
86)	4-Nitrophenol	(3)	7.382	109	127912	120.0000
87)	Dibenzofuran	(3)	7.400	168	1035460	118.8559
88)	2,4-Dinitrotoluene	(3)	7.419	165	275686	119.7203
90)	1-Naphthylamine	(3)	7.468	143	810712	118.4575
91)	2,3,4,6-Tetrachlorophenol	(3)	7.511	232	182829	119.2670
92)	2-Naphthylamine	(3)	7.536	143	856577	118.7901
93)	Diethylphthalate	(3)	7.634	149	840415	117.6746
94)	Fluorene	(3)	7.683	166	864036	118.1614
96)	4-Chlorophenyl-phenylether	(3)	7.702	204	354308	117.0796
98)	4-Nitroaniline	(3)	7.720	138	271310	117.3427
99)	4,6-Dinitro-2-methylphenol	(4)	7.745	198	148809	120.0000
102)	N-Nitrosodiphenylamine	(4)	7.800	169	632067	118.9711
103)	1,2-Diphenylhydrazine	(4)	7.825	77	834459	119.1850
108)	Phorate	(4)	8.052	75	721701	119.9915
110)	4-Bromophenyl-phenylether	(4)	8.095	248	223116	118.3702
112)	Hexachlorobenzene	(4)	8.126	284	257732	119.1908
116)	Pentachlorophenol	(4)	8.298	266	157876	119.3012
120)	Phenanthrene-d10	(4)	8.439	188	404425	40.0000
121)	Phenanthrene	(4)	8.464	178	1254386	118.2271
122)	Dinoseb	(4)	8.464	211	185906	120.0000
124)	Anthracene	(4)	8.507	178	1340032	118.4072
125)	Carbazole	(4)	8.648	167	1293171	118.4001
126)	Methyl parathion	(4)	8.778	109	271422	117.0600
127)	Ronnel	(4)	8.845	285	309769	116.6184
128)	Di-n-butylphthalate	(4)	8.968	149	1489767	118.2536
129)	Parathion	(4)	9.097	109	186203	120.7757
134)	Fluoranthene	(4)	9.429	202	1432332	117.1844
135)	Benzidine	(5)	9.565	184	2597185	350.2770

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

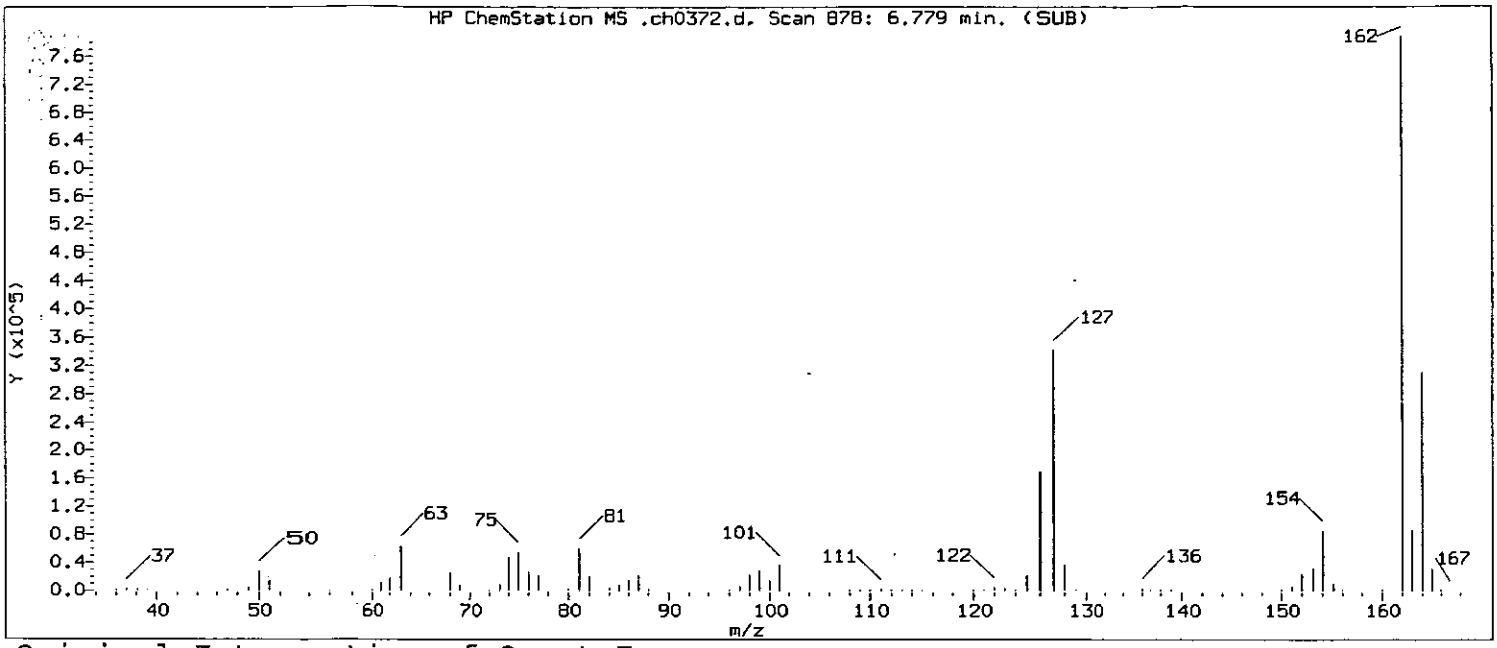
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

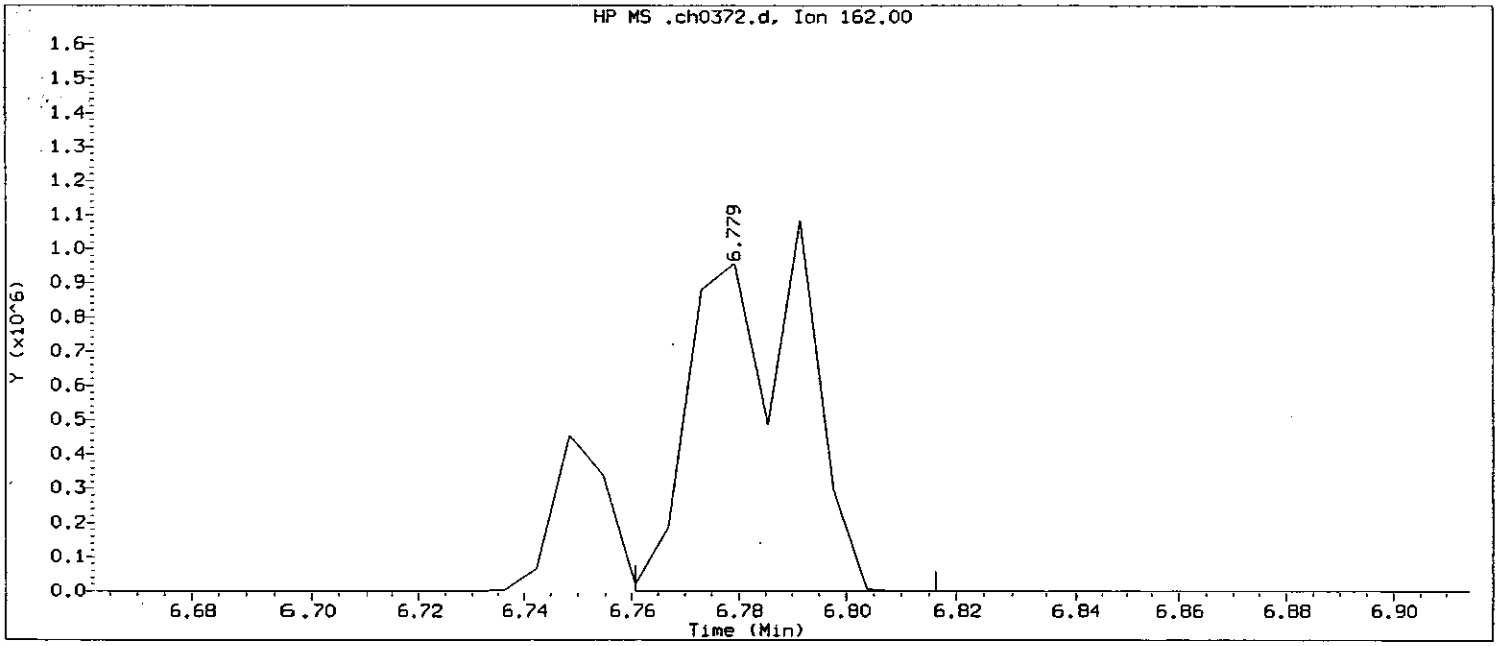
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.608	202	1455255	121.2964
143)	Butylbenzylphthalate	(5)	10.179	149	725824	121.0791
145)	3,3'-Dichlorobenzidine	(5)	10.585	252	527717	118.2379
146)	Benzo(a)anthracene	(5)	10.585	228	1237344	118.4069
147)	Hexabromobenzene	(5)	10.591	552	11503	120.2992
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.591	231	257211	118.9727
149)	Chrysene-d12	(5)	10.591	240	362574	40.0000
150)	Chrysene	(5)	10.616	228	1300091	119.4527
151)	bis(2-Ethylhexyl)phthalate	(5)	10.665	149	1020297	122.0053
152)	6-Methylchrysene	(5)	10.979	242	1043419	120.7174
156)	Di-n-octylphthalate	(6)	11.194	149	1793932	120.0000
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.440	256	715423	118.3623
158)	Benzo(b)fluoranthene	(6)	11.440	252	1821558M	130.0861
159)	Benzo(k)fluoranthene	(6)	11.458	252	1547782M	116.5108
160)	Benzo(a)pyrene	(6)	11.680	252	1480195	119.5299
161)	Perylene-d12	(6)	11.717	264	378850	40.0000
162)	3-Methylcholanthrene	(6)	11.938	268	858614	119.3339
166)	Dibenz(a,h)acridine	(6)	12.338	279	1371429	119.5379
167)	Dibenz(a,j)acridine	(6)	12.381	279	1359270	119.0483
168)	Indeno(1,2,3-cd)pyrene	(6)	12.516	276	1887696	118.8445
169)	Dibenz(a,h)anthracene	(6)	12.534	278	1500053	118.8405
170)	Benzo(g,h,i)perylene	(6)	12.737	276	1590741	119.2271
9)	2-Fluorophenol	(1)	3.379	112	354175	120.1235
13)	Phenol-d5	(1)	4.332	99	460860	120.0158
14)	Phenol-d6	(1)	4.332	99	460860	120.0158
35)	Nitrobenzene-d5	(2)	5.138	82	375182	118.3776
66)	2-Fluorobiphenyl	(3)	6.693	172	769436	117.8382
104)	2,4,6-Tribromophenol	(3)	7.880	330	138834	119.0951
138)	Terphenyl-d14	(5)	9.761	244	964912	119.9837

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:19
Date, time and analyst ID of latest file update: 14-Aug-2007 03:20 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

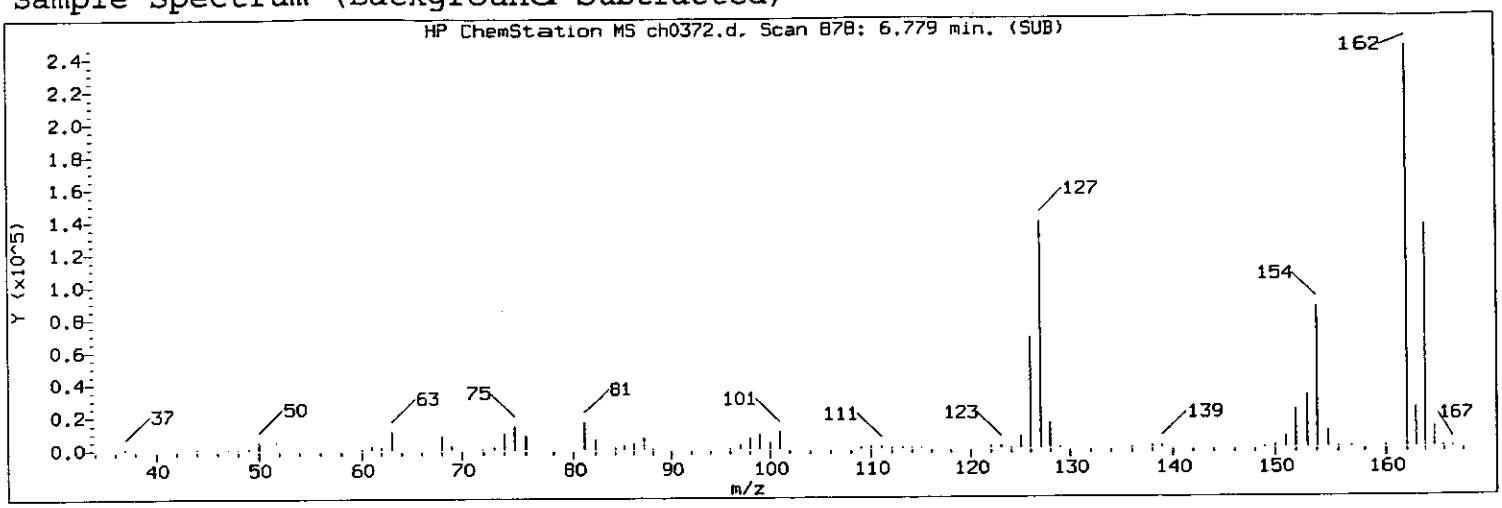
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 878
Retention Time (minutes): 6.779
Quant Ion : 162
Area : 1440811
Concentration (ng/ul) : 142.4878
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mc (3) 8/14/07

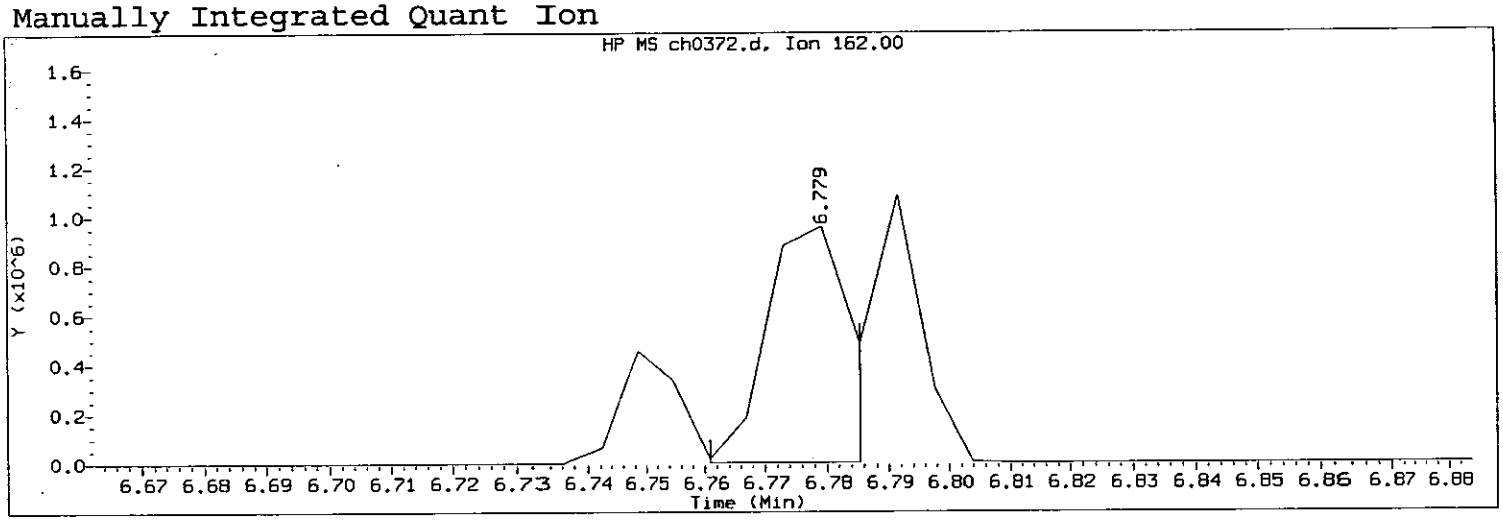
0394

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0372.d, generated on 08/14/2007 at 03:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

Compound Number	:	71	
Compound Name	:	2-Chloronaphthalene	
Scan Number	:	878	
Retention Time (minutes)	:	6.779	
Quant Ion	:	162	
Area (flag)	:	925139 M	
Concentration (ng/ul)	:	116.1771	
Integration start scan	:	874	Integration stop scan: 878
Y at integration start	:	3475	Y at integration end: 3475

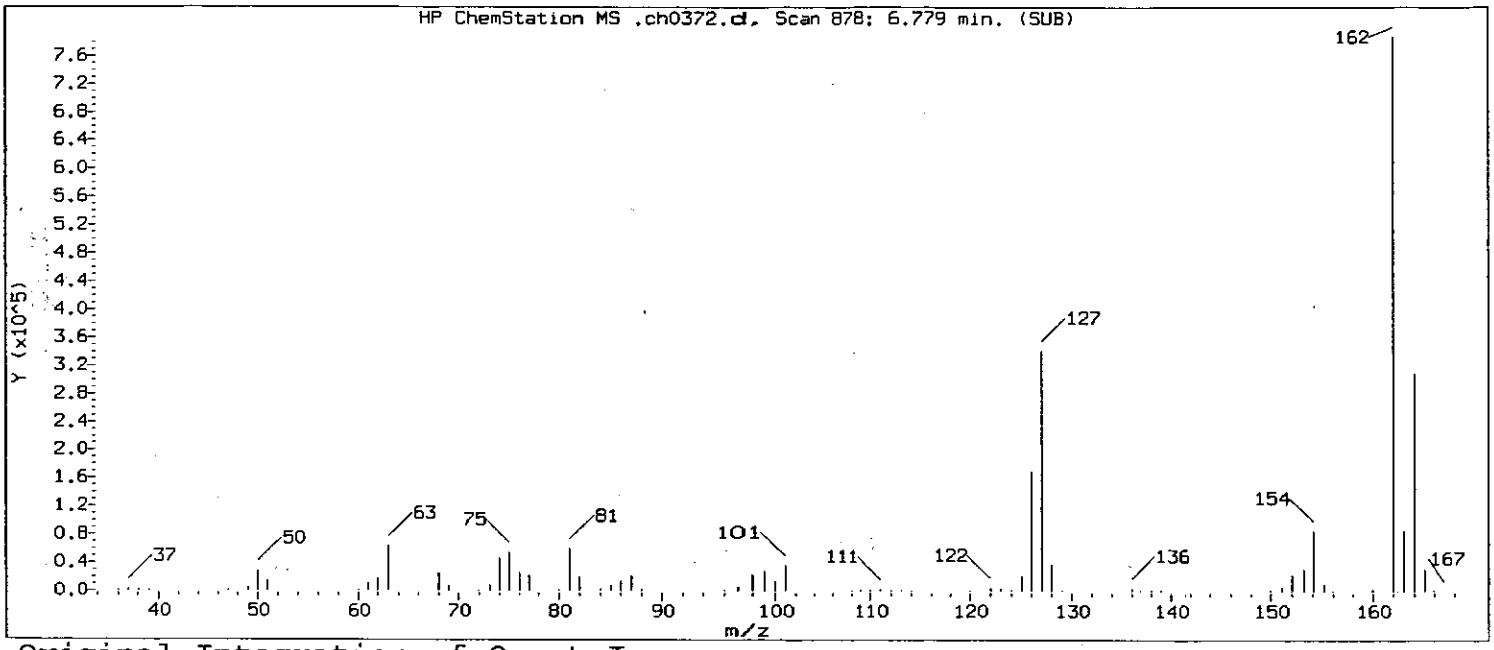
Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: mac (3) 8/14/07

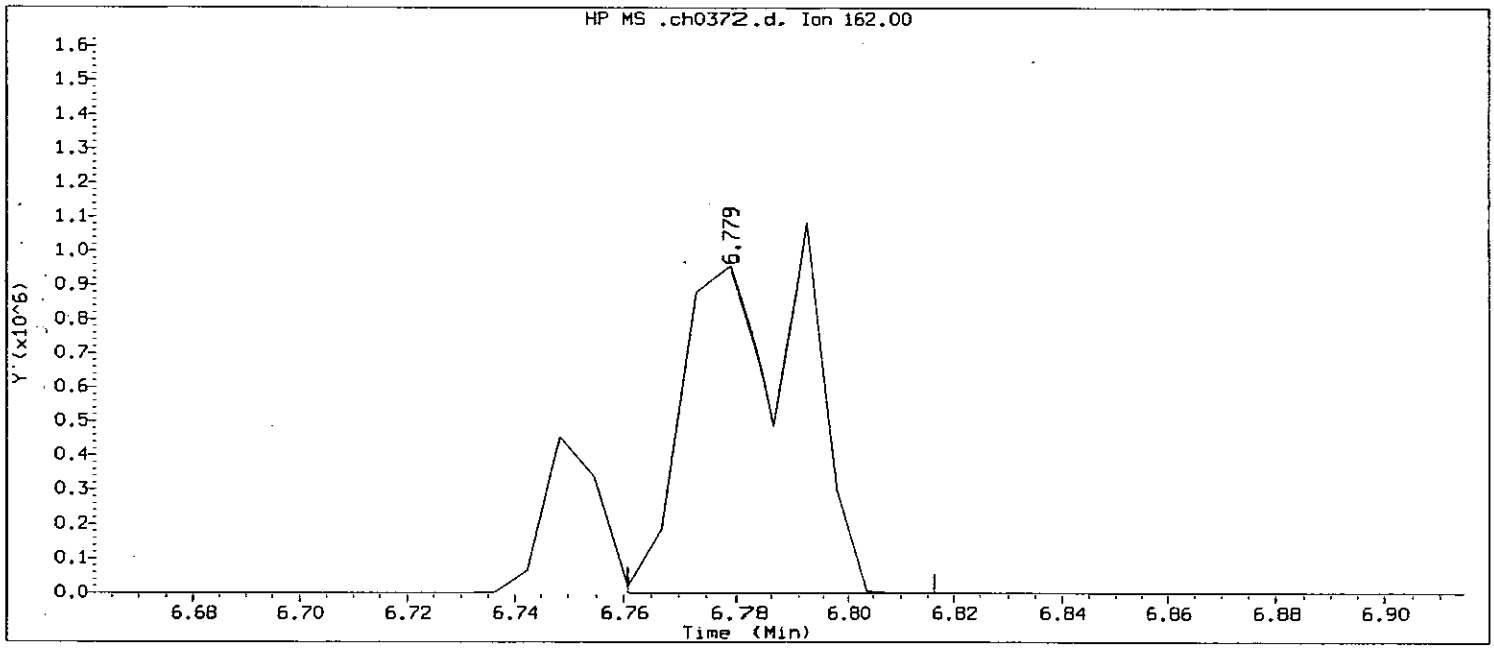
0395

GC/MS audit/management approval: jm23 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:19
Date, time and analyst ID of latest file update: 14-Aug-2007 03:20 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

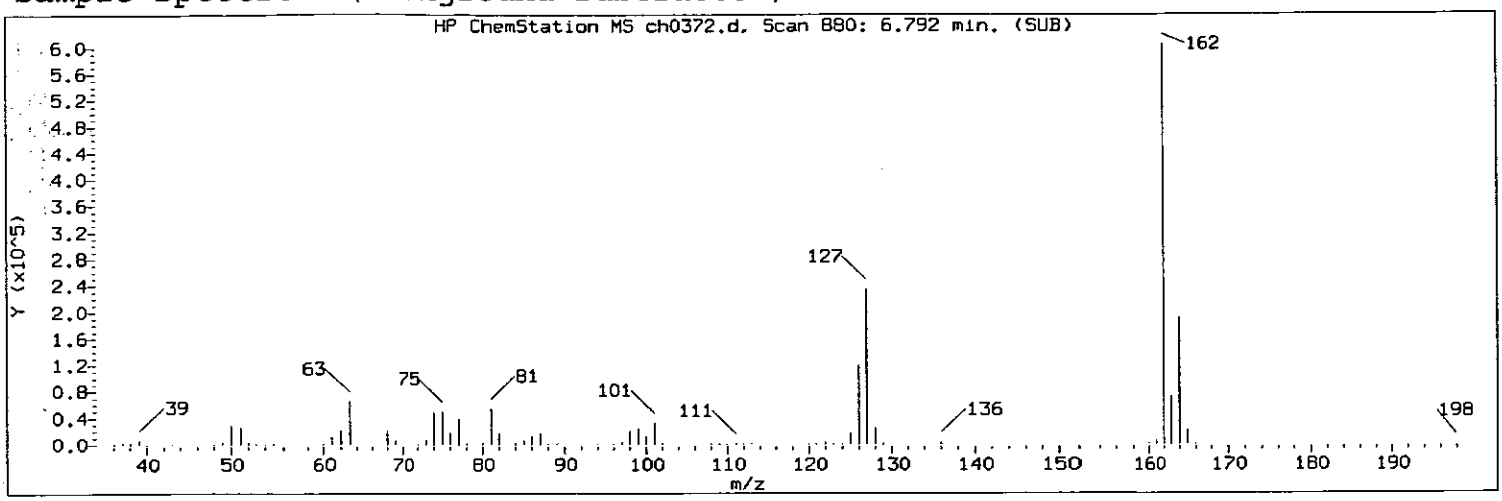
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 878
Retention Time (minutes): 6.779
Quant Ion : 162
Area : 1440811
Concentration (ng/ul) : 161.1949
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mac (13) 8/14/07

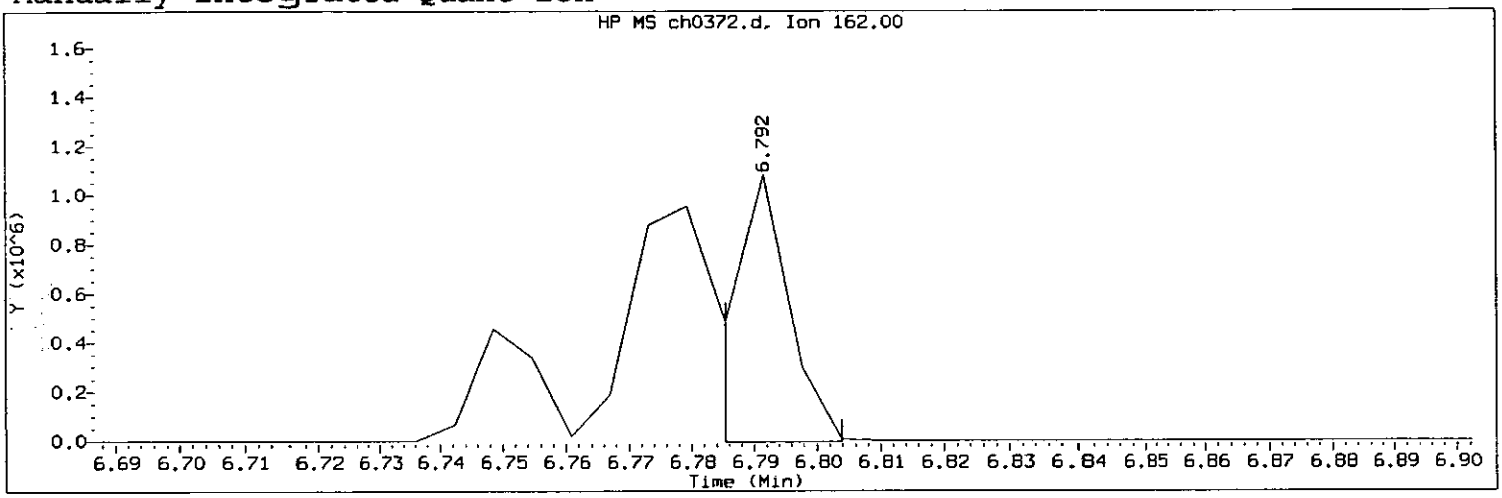
0396

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0372.d, generated on 08/14/2007 at 03:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 880
Retention Time (minutes): 6.792
Quant Ion : 162
Area (flag) : 697490 M
Concentration (ng/ul) : 119.4099
Integration start scan : 878 Integration stop scan: 881
Y at integration start : -4190 Y at integration end: -4190

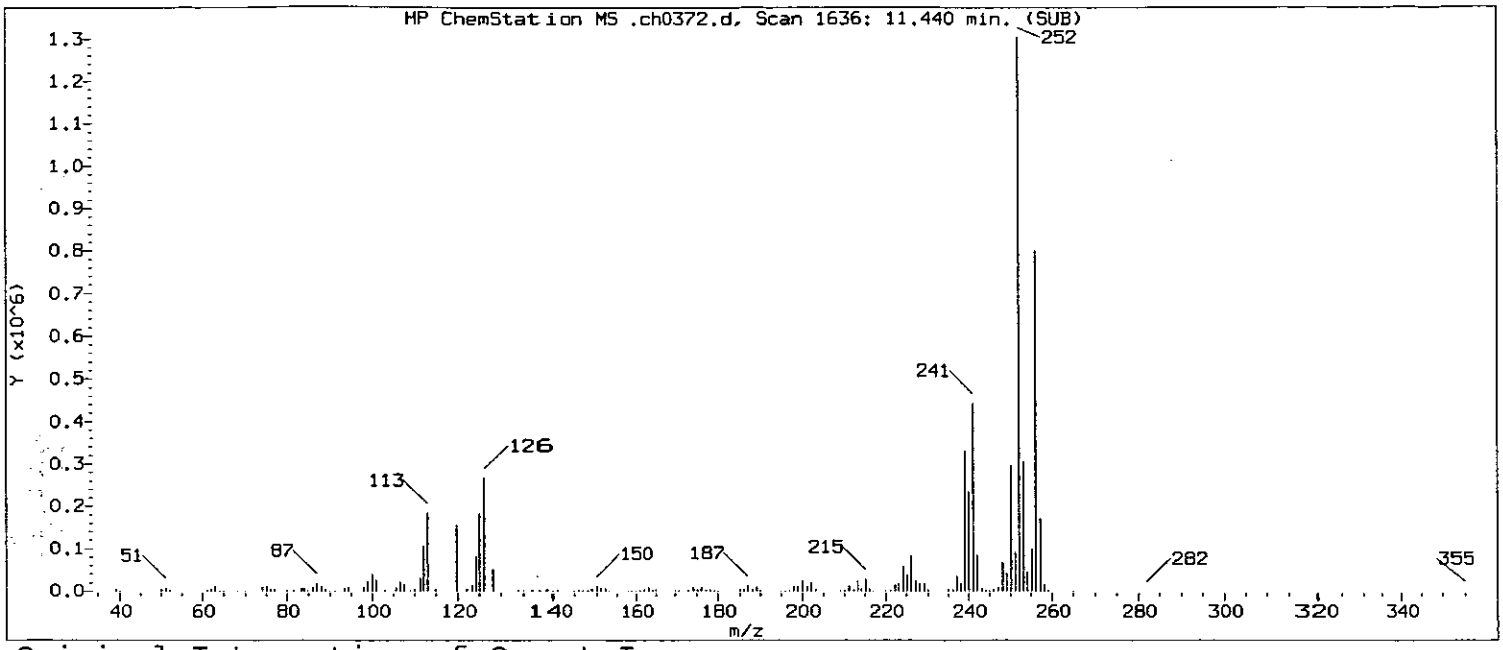
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(13) 8/14/07

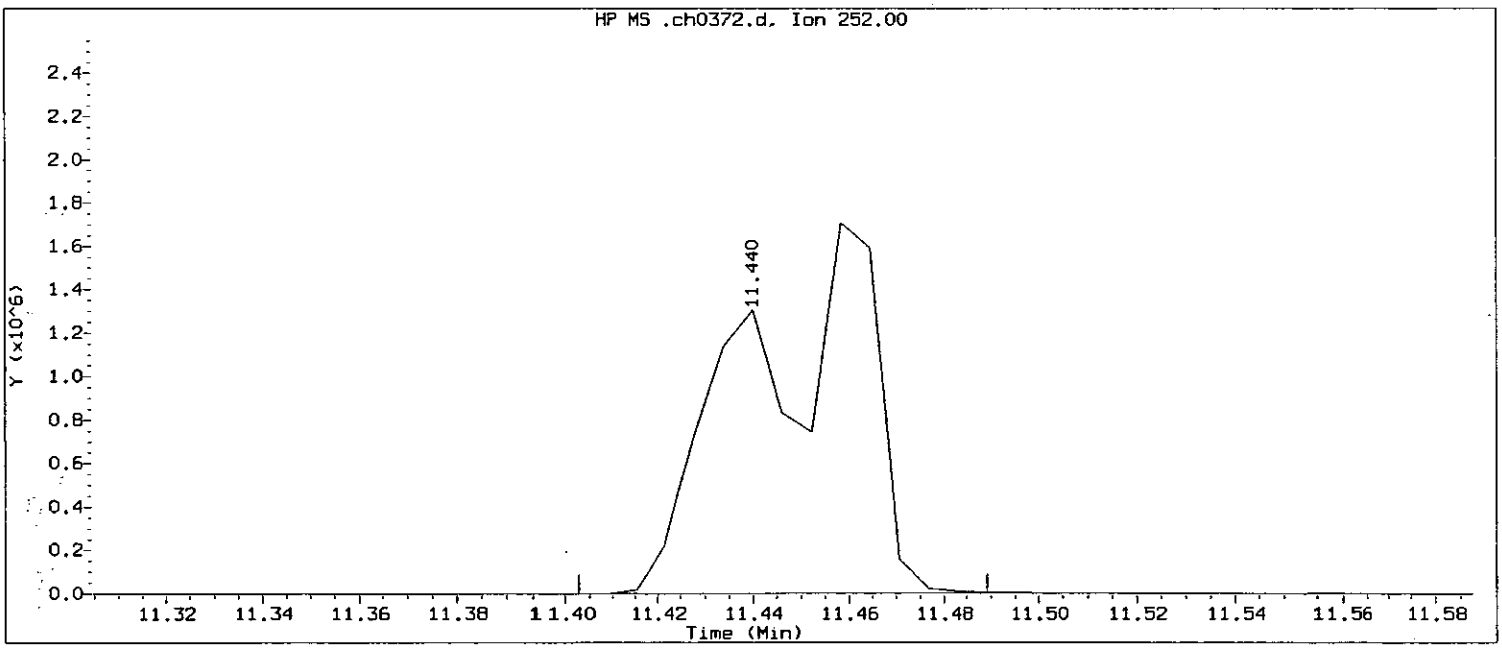
8397

GC/MS audit/management approval: [signature] 8/14/7

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:19
Date, time and analyst ID of latest file update: 14-Aug-2007 03:20 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

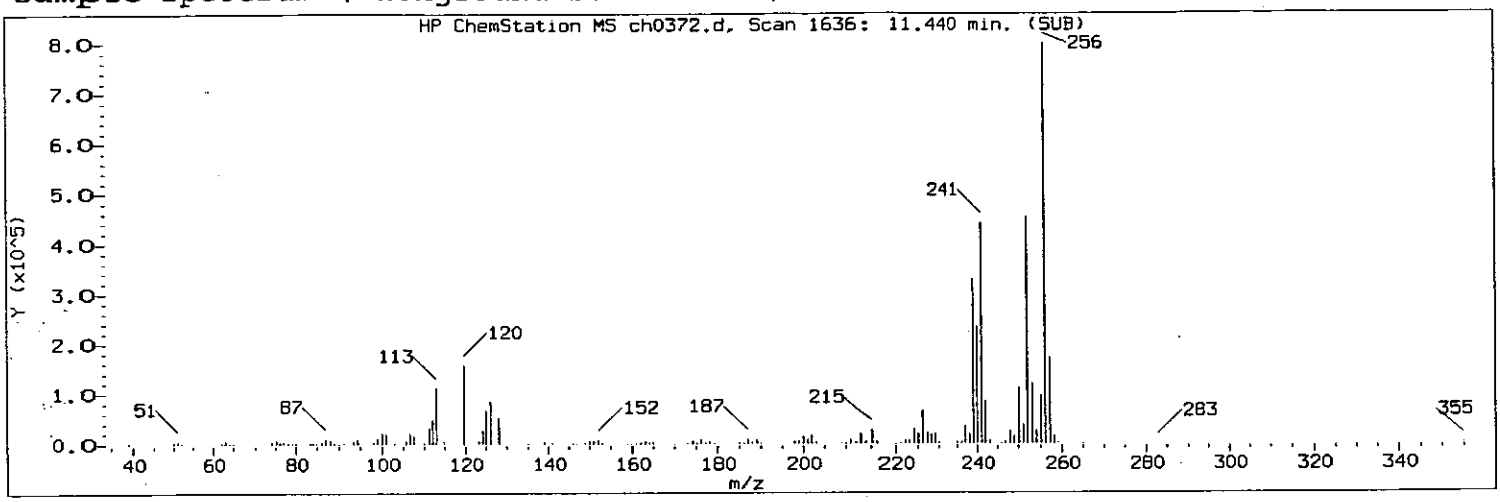
Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1636
Retention Time (minutes)	:	11.440
Quant Ion	:	252
Area	:	3120751
Concentration (ng/ul)	:	160.7307
Integration start scan	:	1629 Integration stop scan: 1643
Y at integration start	:	0 Y at integration end: 3648

mac(3) 8/14/07

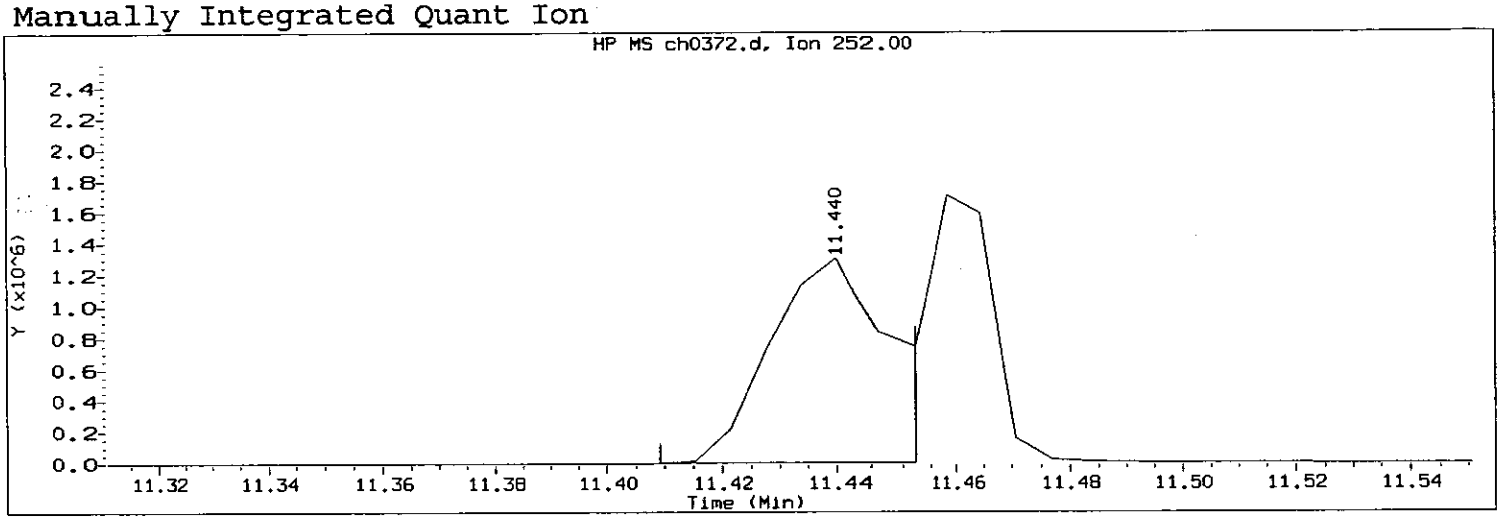
0399

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0372.d, generated on 08/14/2007 at 03:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

Compound Number	: 158	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1636	
Retention Time (minutes)	: 11.440	
Quant Ion	: 252	
Area (flag)	: 1821558 M	
Concentration (ng/ul)	: 130.0861	
Integration start scan	: 1630	Integration stop scan: 1637
Y at integration start	: 6103	Y at integration end: 6103

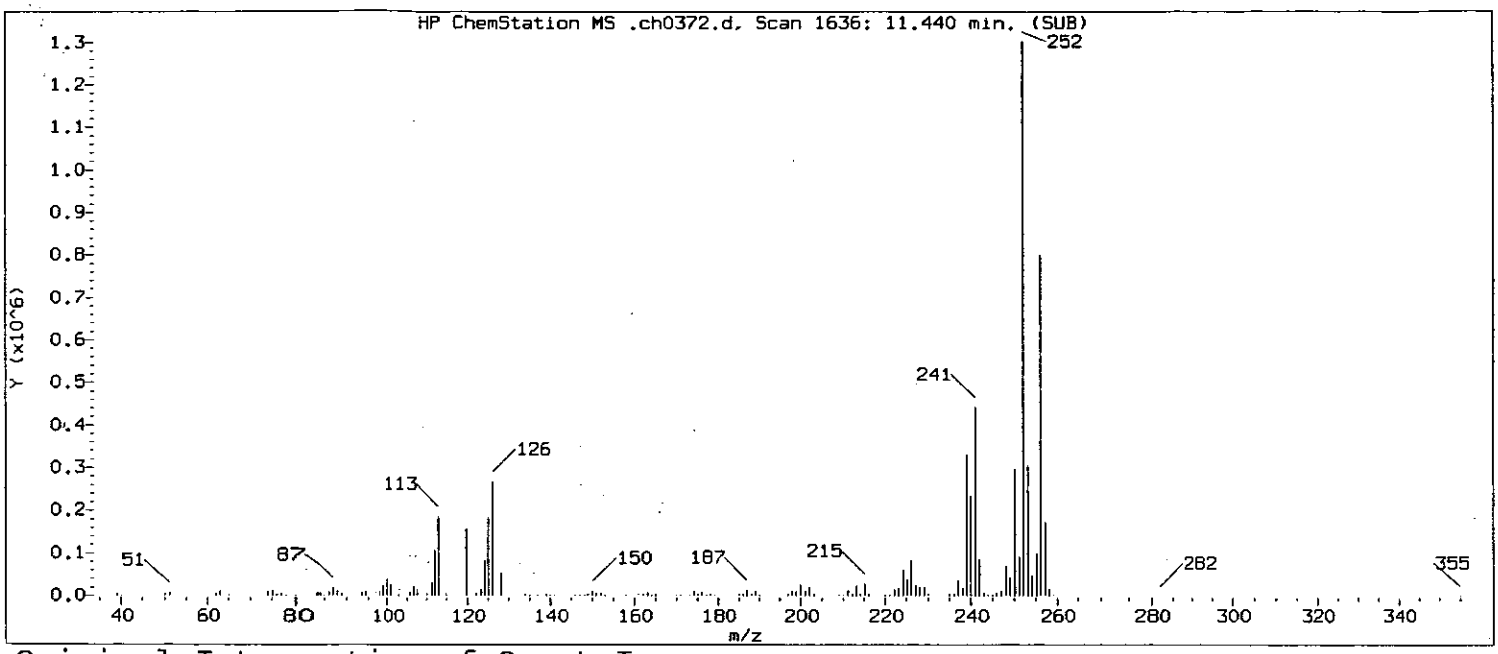
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mc(13) 8/14/07

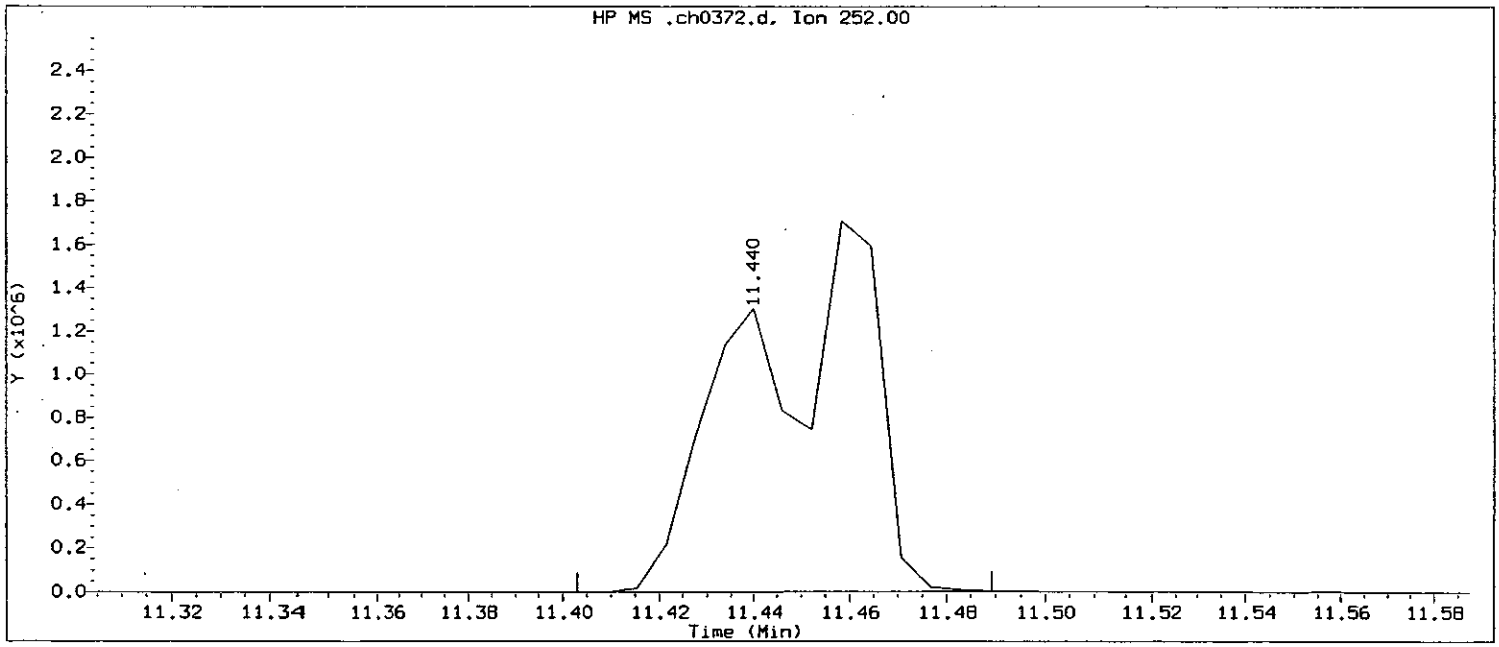
0399

GC/MS audit/management approval: [illegible] 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:19
Date, time and analyst ID of latest file update: 14-Aug-2007 03:20 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

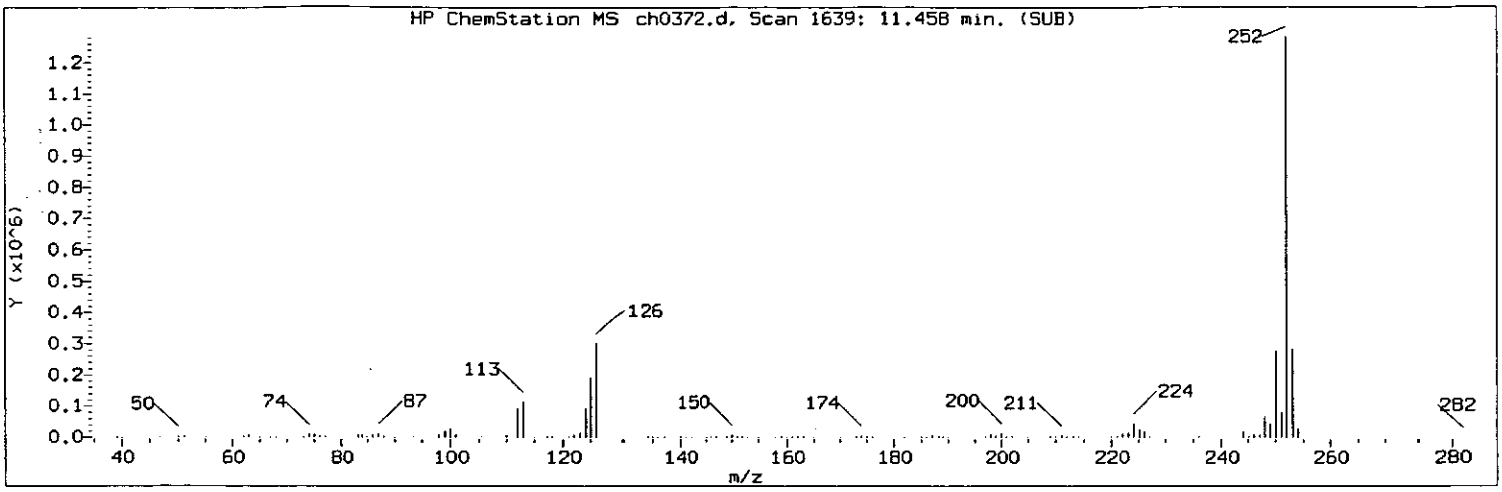
Compound Number	: 159
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1636
Retention Time (minutes)	: 11.440
Quant Ion	: 252
Area	: 3120727
Concentration (ng/ul)	: 157.3074
Integration start scan	: 1629 Integration stop scan: 1643
Y at integration start	: 0 Y at integration end: 3657

mc(13) 8/14/07

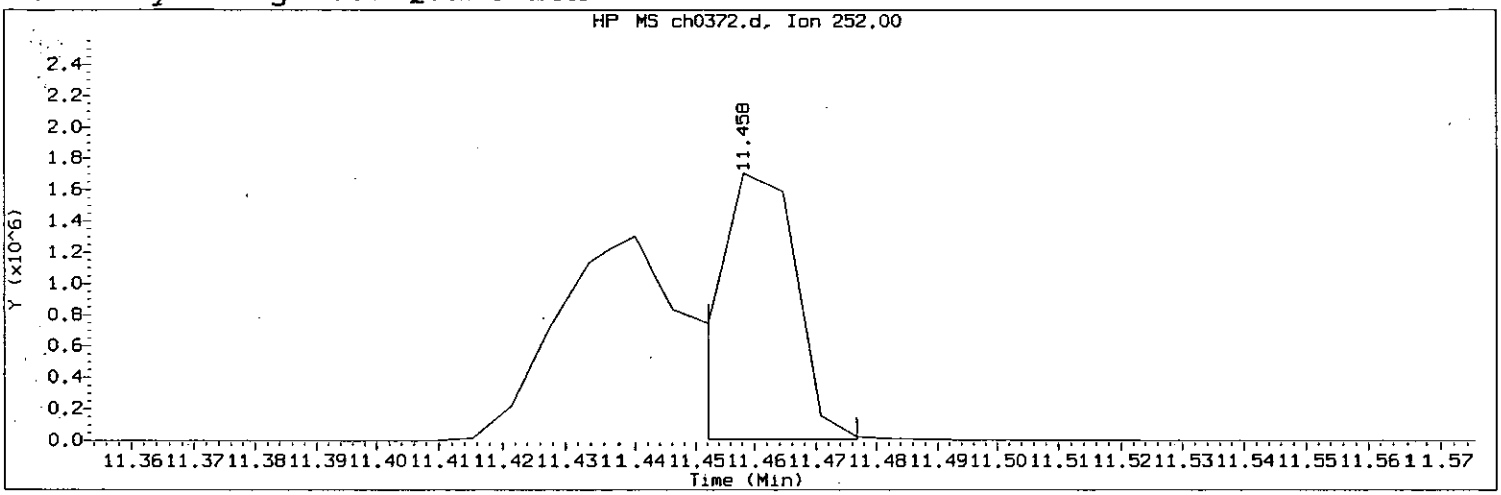
0488

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0372.d, generated on 08/14/2007 at 03:24

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0372.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:14 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:23
Date, time and analyst ID of latest file update: 14-Aug-2007 03:24 mac00013

Sample Name: SSTD120 Lab Sample ID: STD2187

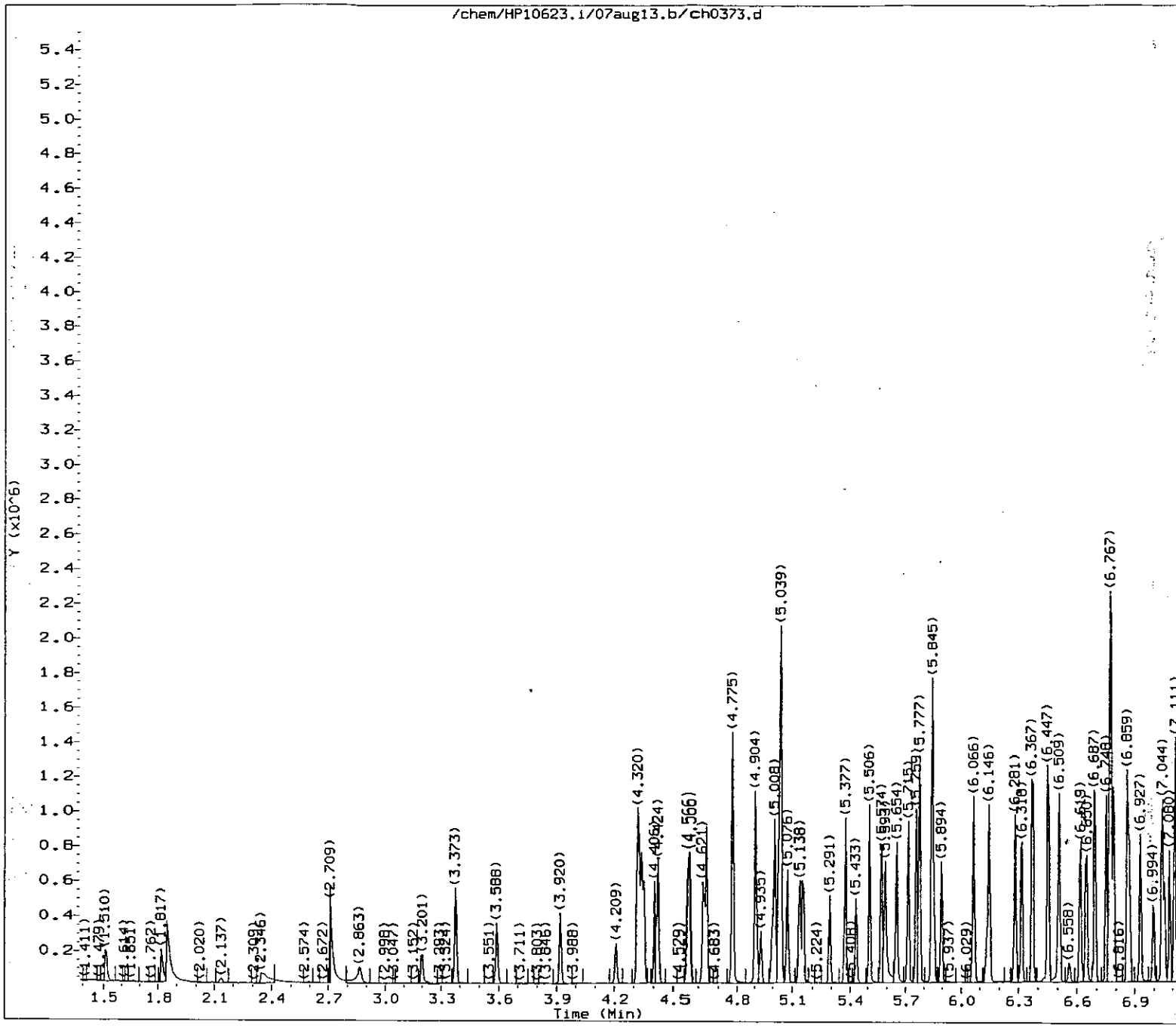
Compound Number	: 159	
Compound Name	: Benzo(k)fluoranthene	
Scan Number	: 1639	
Retention Time (minutes)	: 11.458	
Quant Ion	: 252	
Area (flag)	: 1547782 M	
Concentration (ng/ul)	: 116.5108	
Integration start scan	: 1637	Integration stop scan: 1641
Y at integration start	: 6928	Y at integration end: 6928

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac(13) 8/14/07

8481

GC/MS audit/management approval: bmm 8/14/07



Quant Report

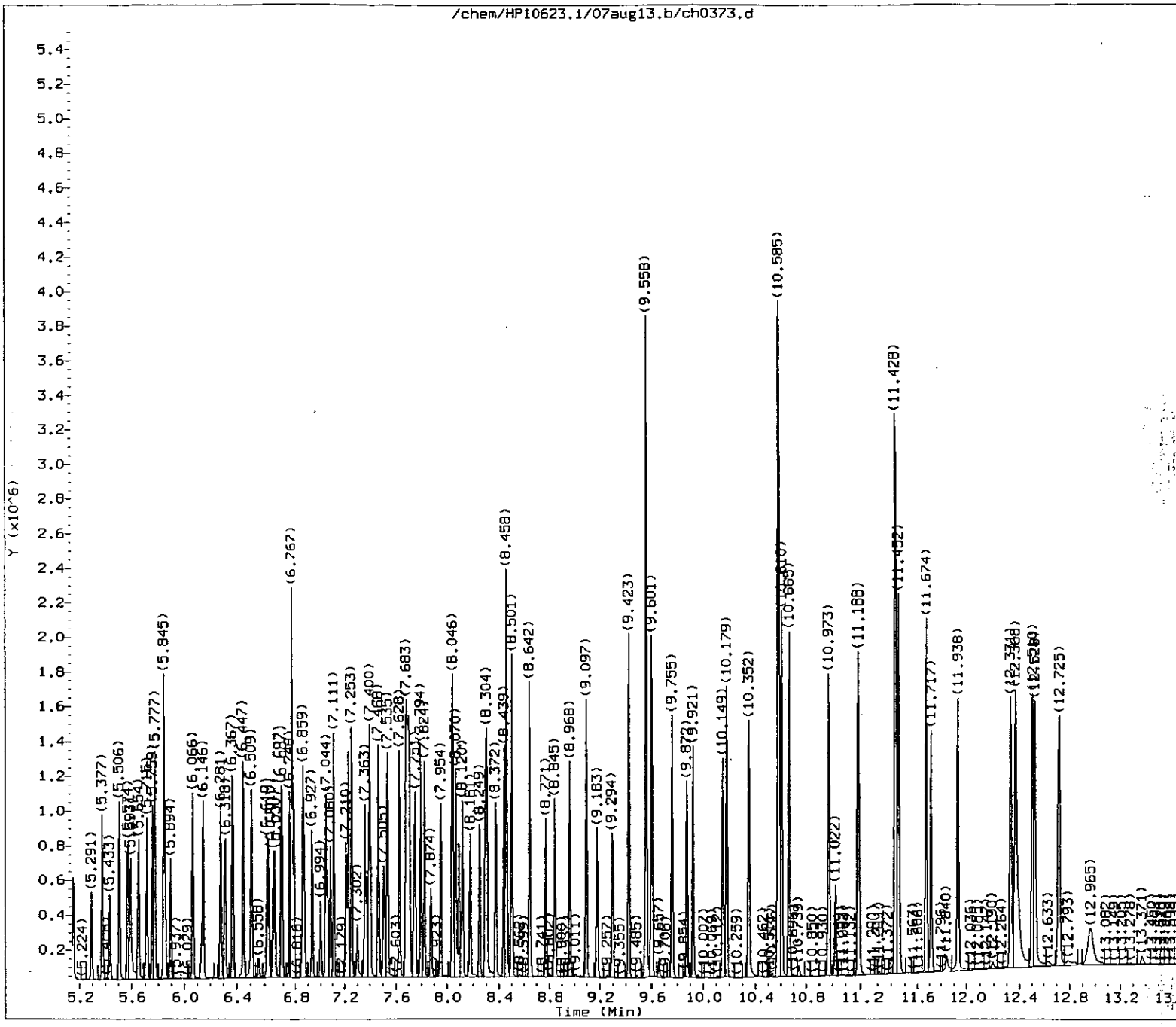
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

mc 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTDO50 Lab Sample ID: STD2187

0403
mc (13) 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.516	88	63908	52.2870
2)	N-Nitrosodimethylamine	(1)	1.817	74	92170	48.8810
3)	Pyridine	(1)	1.848	79	186209	53.7849
5)	2-Picoline	(1)	2.709	93	171758	52.1893
15)	Phenol	(1)	4.338	94	203752	49.5684
16)	Aniline	(1)	4.320	93	259047	50.0030
18)	bis(2-Chloroethyl)ether	(1)	4.406	93	152045	50.3086
19)	2-Chlorophenol	(1)	4.424	128	152321	49.9411
20)	1,3-Dichlorobenzene	(1)	4.566	146	156263	50.3642
21)	1,4-Dichlorobenzene-d4	(1)	4.621	152	76104	40.0000
22)	1,4-Dichlorobenzene	(1)	4.639	146	162494	50.9004
23)	Benzyl alcohol	(1)	4.775	108	99787	46.5169
24)	1,2-Dichlorobenzene	(1)	4.775	146	153285	50.8309
25)	2-Methylphenol	(1)	4.904	108	148315	49.4896
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	152782	50.7015
27)	bis(2-Chloroisopropyl)ether	(1)	4.916	45	152782	50.7015
29)	Acetophenone	(1)	5.008	105	212479	49.8644
30)	N-Nitroso-di-n-propylamine	(1)	5.027	70	106213	49.5163
31)	4-Methylphenol	(1)	5.045	108	170133	50.4726
33)	o-Toluidine	(1)	5.039	106	244564	50.2388
34)	Hexachloroethane	(1)	5.076	117	54196	49.9047
36)	Nitrobenzene	(2)	5.150	77	158228	50.6795
38)	Isophorone	(2)	5.377	82	294861	50.0622
39)	2-Nitrophenol	(2)	5.433	139	77948	49.3588
40)	2,4-Dimethylphenol	(2)	5.506	107	148447	49.6341
42)	bis(2-Chloroethoxy)methane	(2)	5.593	93	151811	48.8075
43)	Benzoic acid	(2)	5.605	105	80795	49.0795
44)	2,4-Dichlorophenol	(2)	5.654	162	125211	50.5465
45)	1,2,4-Trichlorobenzene	(2)	5.715	180	122181	50.2053
46)	Naphthalene-d8	(2)	5.759	136	329653	40.0000
47)	Naphthalene	(2)	5.777	128	455903	51.3414
48)	4-Chloroaniline	(2)	5.845	127	196716	51.3669
49)	2,6-Dichlorophenol	(2)	5.845	162	118834	50.3674
51)	Hexachlorobutadiene	(2)	5.894	225	57840	51.8625
52)	Quinoline	(2)	6.066	129	307468	50.0227
53)	Caprolactam	(2)	6.146	113	55198	48.7348
55)	4-Chloro-3-methylphenol	(2)	6.281	107	137248	49.8969
58)	2-Methylnaphthalene	(2)	6.373	142	300806	50.0813
60)	1-Methylnaphthalene	(2)	6.447	142	292756	50.6296
61)	Hexachlorocyclopentadiene	(3)	6.503	237	38818	47.9832
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	114344	50.9090
64)	2,4,6-Trichlorophenol	(3)	6.619	196	86659	50.8137
65)	2,4,5-Trichlorophenol	(3)	6.650	196	102493	51.2687

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.767	154	364499	51.2367
69) Diphenyl	(3)	6.767	154	364499	51.2367
70) 1,1'-Biphenyl	(3)	6.767	154	364499	51.2367
71) 2-Chloronaphthalene	(3)	6.773	162	325865M	45.8749
72) 1-Chloronaphthalene	(3)	6.785	162	334515M	57.2113
73) Diphenyl ether	(3)	6.859	170	192206	50.5572
74) 2-Nitroaniline	(3)	6.871	138	107468	48.8394
77) Dimethylphthalate	(3)	7.044	163	324877	50.1917
79) 2,6-Dinitrotoluene	(3)	7.080	165	79491	49.9840
80) Acenaphthylene	(3)	7.111	152	430075	51.1899
81) 3-Nitroaniline	(3)	7.210	138	96176	49.8831
82) Acenaphthene-d10	(3)	7.228	164	201506	40.0000
83) Acenaphthene	(3)	7.253	153	289209	50.6118
84) 2,4-Dinitrophenol	(3)	7.302	184	31637	49.1126
85) Pentachlorobenzene	(3)	7.363	250	105214	50.4764
86) 4-Nitrophenol	(3)	7.376	109	54282	49.7783
87) Dibenzofuran	(3)	7.400	168	416897	51.0038
88) 2,4-Dinitrotoluene	(3)	7.413	165	103386	48.8791
90) 1-Naphthylamine	(3)	7.468	143	334405	51.7078
91) 2,3,4,6-Tetrachlorophenol	(3)	7.511	232	68006	48.4860
92) 2-Naphthylamine	(3)	7.535	143	349471	51.4316
93) Diethylphthalate	(3)	7.628	149	332139	50.0466
94) Fluorene	(3)	7.677	166	337799	49.8236
96) 4-Chlorophenyl-phenylether	(3)	7.695	204	145651	51.1976
98) 4-Nitroaniline	(3)	7.708	138	107225	49.9527
99) 4,6-Dinitro-2-methylphenol	(4)	7.738	198	51877	48.7301
102) N-Nitrosodiphenylamine	(4)	7.794	169	249960	50.6379
103) 1,2-Diphenylhydrazine	(4)	7.824	77	327240	50.4168
108) Phorate	(4)	8.046	75	272438	49.3724
110) 4-Bromophenyl-phenylether	(4)	8.095	248	86036	49.6268
112) Hexachlorobenzene	(4)	8.120	284	102204	50.7920
116) Pentachlorophenol	(4)	8.292	266	54482	46.2621
120) Phenanthrene-d10	(4)	8.439	188	373363	40.0000
121) Phenanthrene	(4)	8.458	178	506893	51.1531
122) Dinoseb	(4)	8.464	211	62479	48.4198
124) Anthracene	(4)	8.501	178	522874	50.0305
125) Carbazole	(4)	8.642	167	501721	49.8386
126) Methyl parathion	(4)	8.771	109	109450	50.7485
127) Ronnel	(4)	8.845	285	125408	50.7543
128) Di-n-butylphthalate	(4)	8.968	149	580581	49.9460
129) Parathion	(4)	9.097	109	69639	49.2798
134) Fluoranthene	(4)	9.423	202	565494	50.0761
135) Benzidine	(5)	9.558	184	1163244	151.5134

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

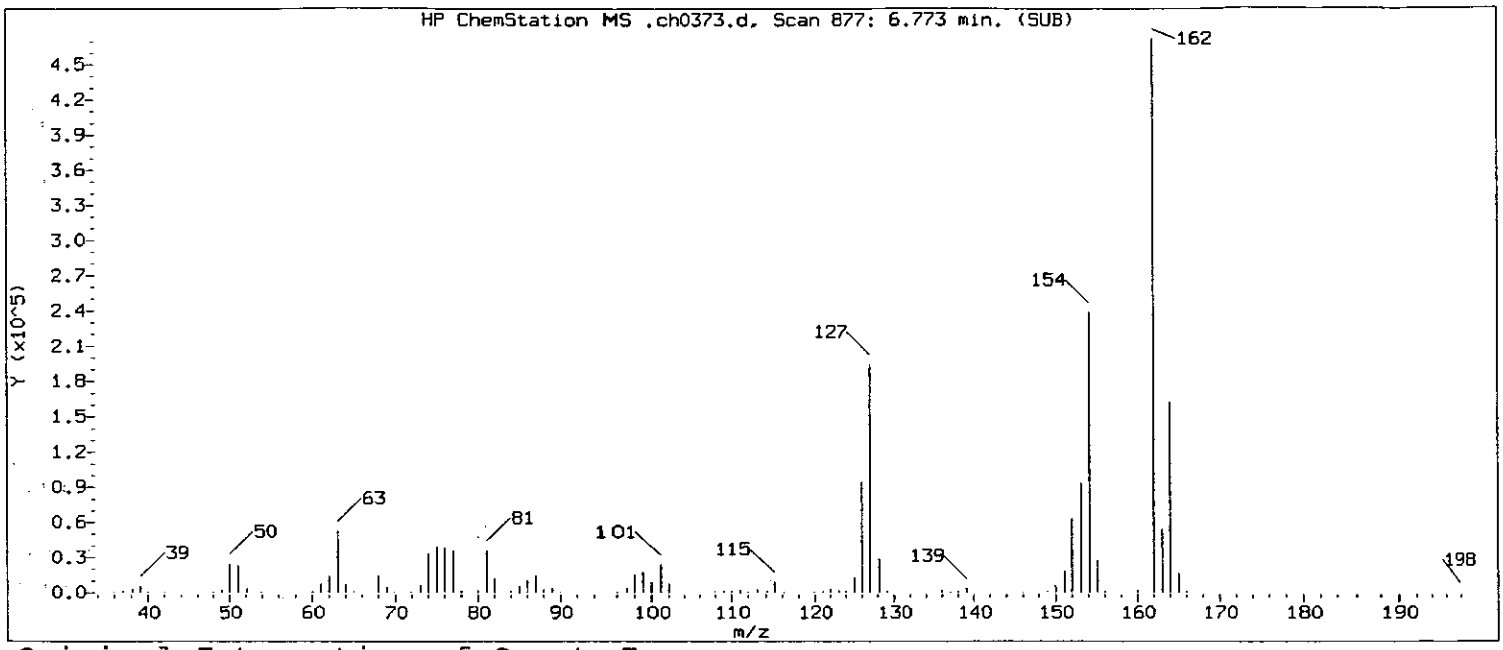
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

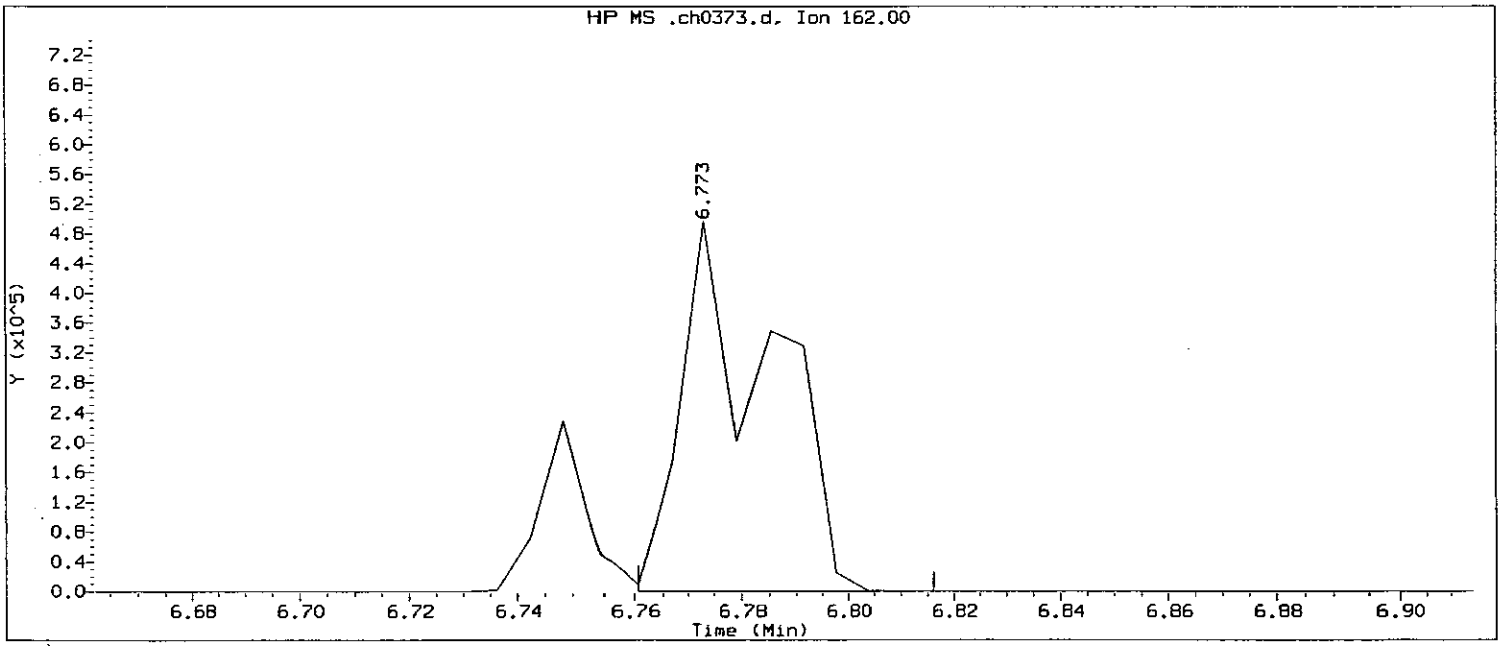
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.601	202	583473	48.1020
143) Butylbenzylphthalate	(5)	10.179	149	290026	47.9325
145) 3,3'-Dichlorobenzidine	(5)	10.579	252	235176	50.7586
146) Benzo(a)anthracene	(5)	10.579	228	550401	50.7444
147) Hexabromobenzene	(5)	10.585	552	4690	48.3804
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.591	231	111618	50.0760
149) Chrysene-d12	(5)	10.585	240	373533	40.0000
150) Chrysene	(5)	10.610	228	543904	48.9952
151) bis(2-Ethylhexyl)phthalate	(5)	10.665	149	400713	47.6184
152) 6-Methylchrysene	(5)	10.973	242	437811	49.4409
156) Di-n-octylphthalate	(6)	11.188	149	711097	49.1925
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.434	256	316001	51.4294
158) Benzo(b)fluoranthene	(6)	11.434	252	621746	46.0589
159) Benzo(k)fluoranthene	(6)	11.452	252	717073	52.5149
160) Benzo(a)pyrene	(6)	11.674	252	639161	50.9967
161) Perylene-d12	(6)	11.717	264	379614	40.0000
162) 3-Methylcholanthrene	(6)	11.938	268	364980	50.4145
166) Dibenz(a,h)acridine	(6)	12.331	279	567260	49.5611
167) Dibenz(a,j)acridine	(6)	12.374	279	592871	51.1992
168) Indeno(1,2,3-cd)pyrene	(6)	12.510	276	802316	50.2726
169) Dibenz(a,h)anthracene	(6)	12.528	278	645851	50.7044
170) Benzo(g,h,i)perylene	(6)	12.725	276	680293	50.5871
9) 2-Fluorophenol	(1)	3.373	112	146232	49.8246
13) Phenol-d5	(1)	4.326	99	191854	50.0692
14) Phenol-d6	(1)	4.326	99	191854	50.0692
35) Nitrobenzene-d5	(2)	5.138	82	151305	50.0598
66) 2-Fluorobiphenyl	(3)	6.693	172	311808	50.9329
104) 2,4,6-Tribromophenol	(3)	7.880	330	52575	49.0281
138) Terphenyl-d14	(5)	9.755	244	383590	47.4701

M = Compound was manually integrated. A = User selected an alternate hi

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:25 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

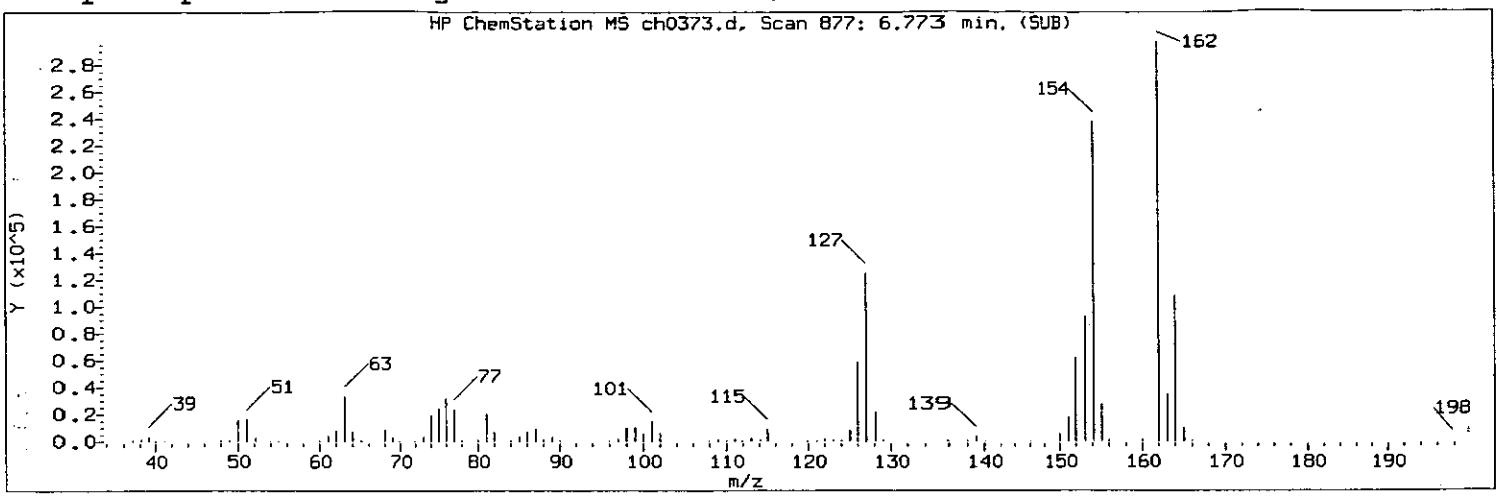
Compound Number	: 71
Compound Name	: 2-Chloronaphthalene
Scan Number	: 877
Retention Time (minutes)	: 6.773
Quant Ion	: 162
Area	: 584298
Concentration (ng/ul)	: 66.2001
Integration start scan	: 874 Integration stop scan: 883
Y at integration start	: 59 Y at integration end: 65

mc (3) 8/14/07

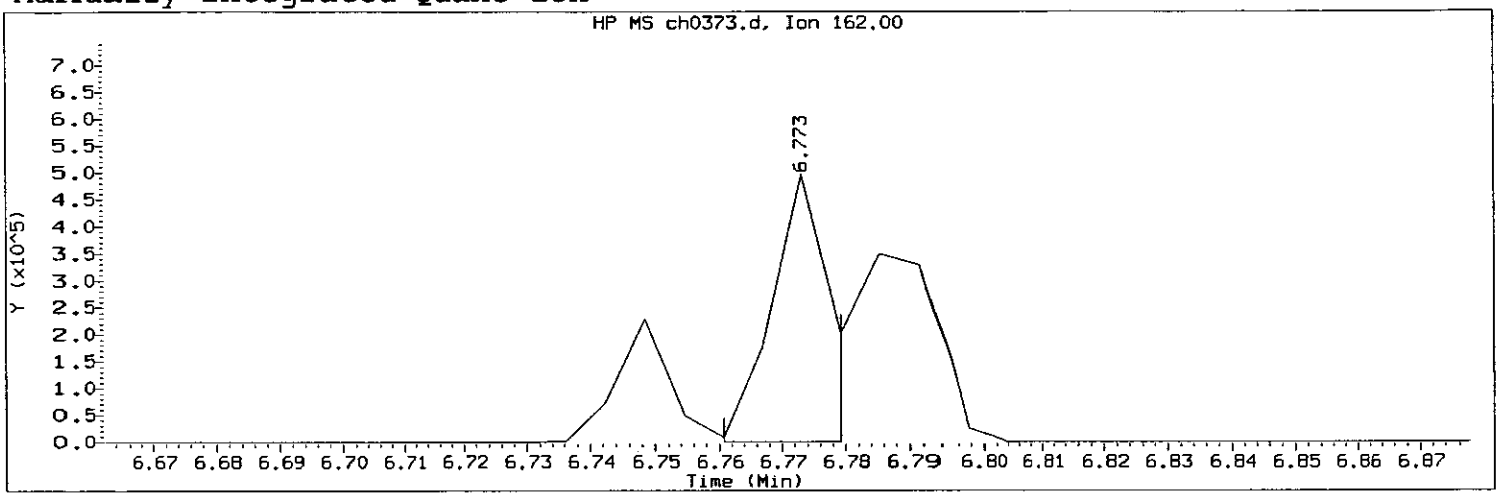
0487

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0373.d, generated on 08/14/2007 at 03:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

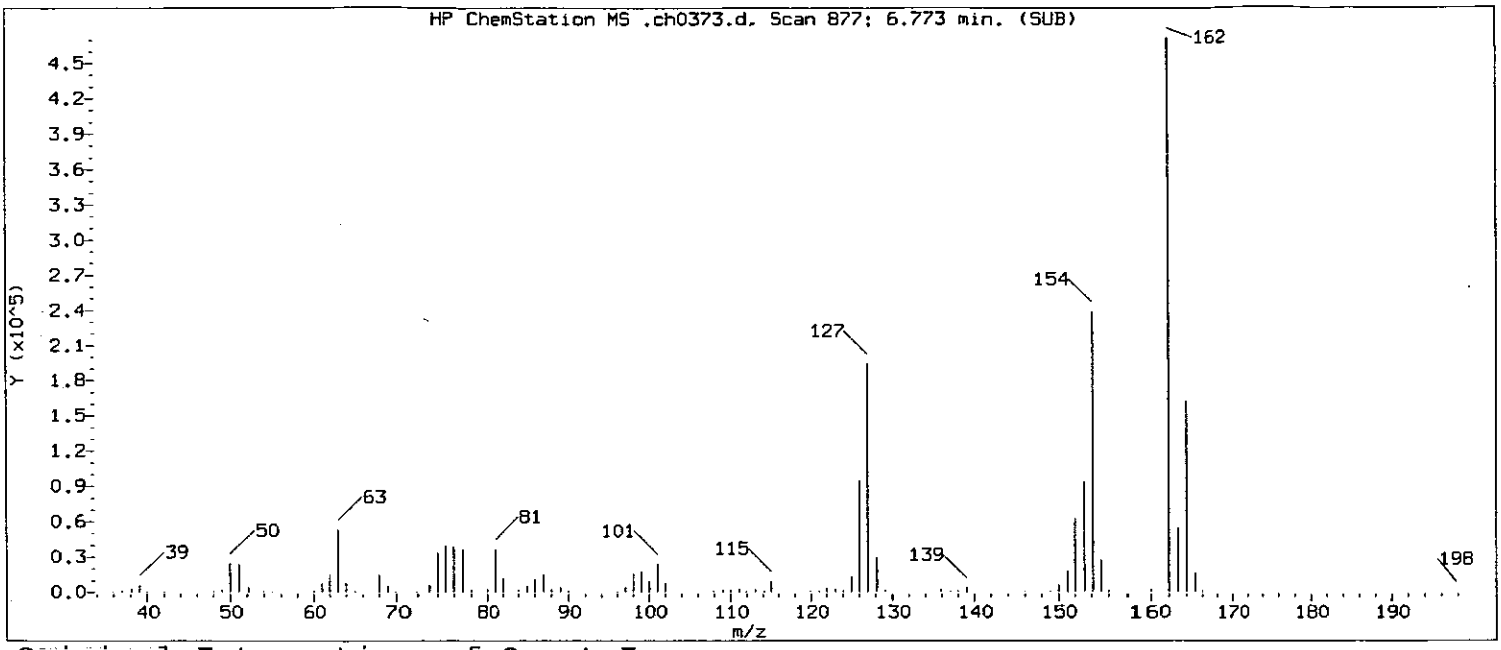
Compound Number	: 71
Compound Name	: 2-Chloronaphthalene
Scan Number	: 877
Retention Time (minutes)	: 6.773
Quant Ion	: 162
Area (flag)	: 325865 M
Concentration (ng/ul)	: 45.8749
Integration start scan	: 874 Integration stop scan: 877
Y at integration start	: 281 Y at integration end: 281

Reason for manual integration (circle one): missed peak improper integrati

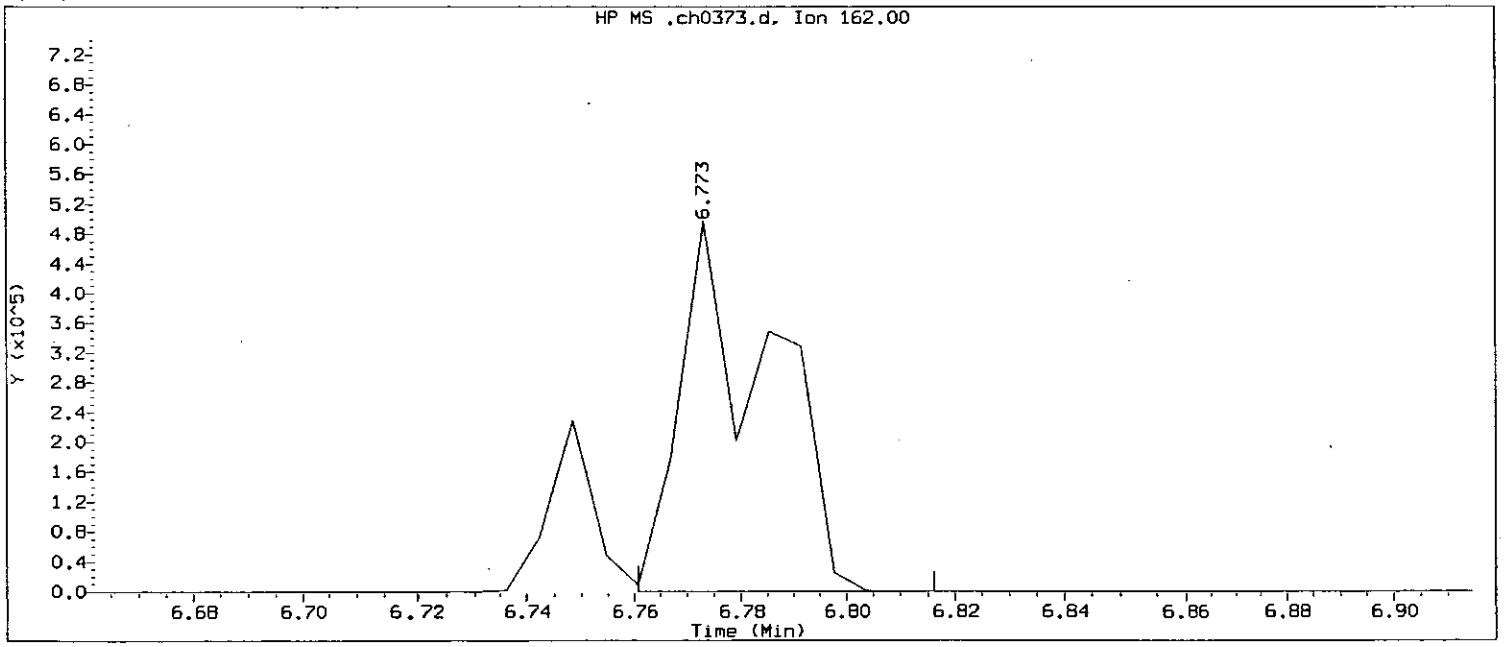
Analyst responsible for change: mc (3) 8/14/07

GC/MS audit/management approval: 0408 bm 3 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:25 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

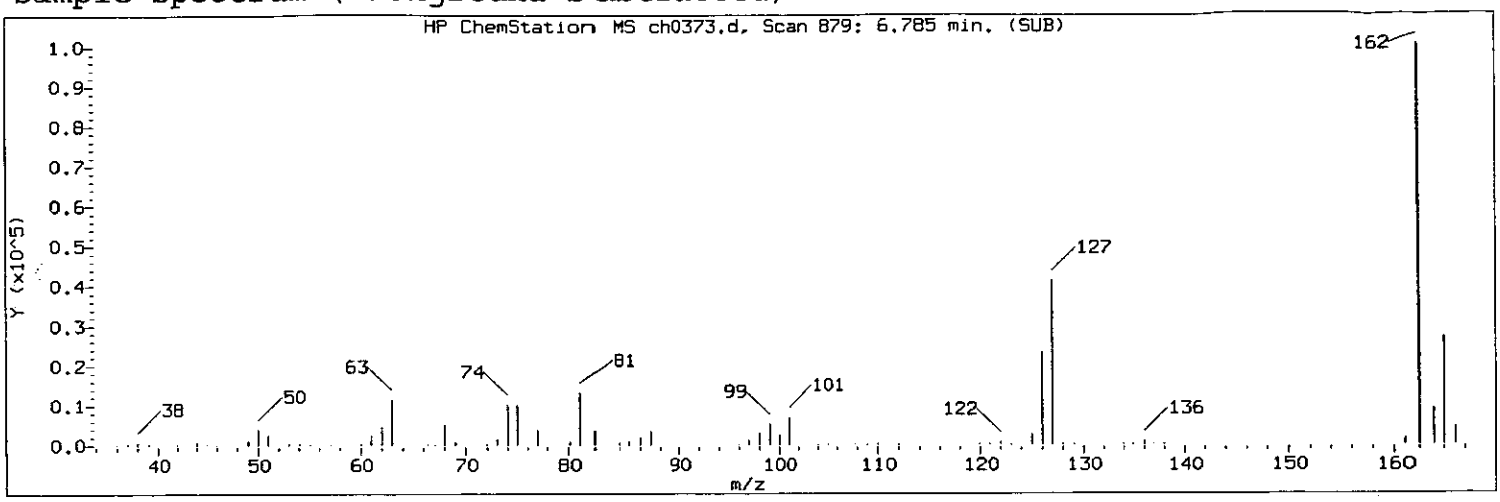
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 584231
Concentration (ng/ul) : 77.7752
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 72 Y at integration end: 81

mac 8/14/07

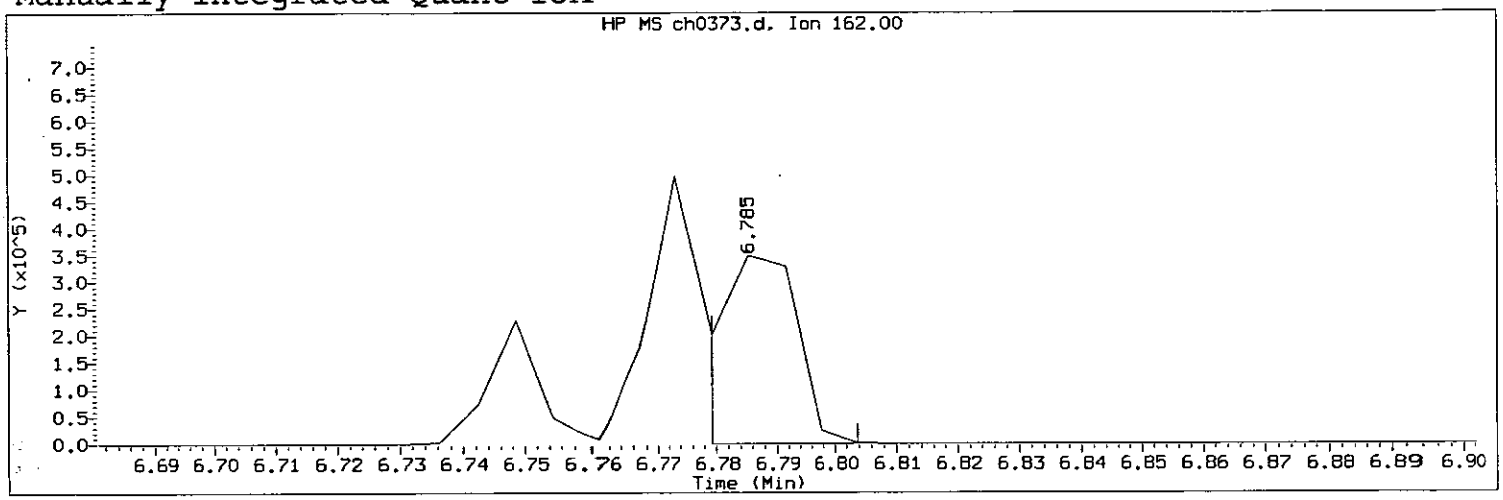
8409

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0373.d, generated on 08/14/2007 at 03:28

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0373.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:35 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:25
Date, time and analyst ID of latest file update: 14-Aug-2007 03:28 mac00013

Sample Name: SSTD050 Lab Sample ID: STD2187

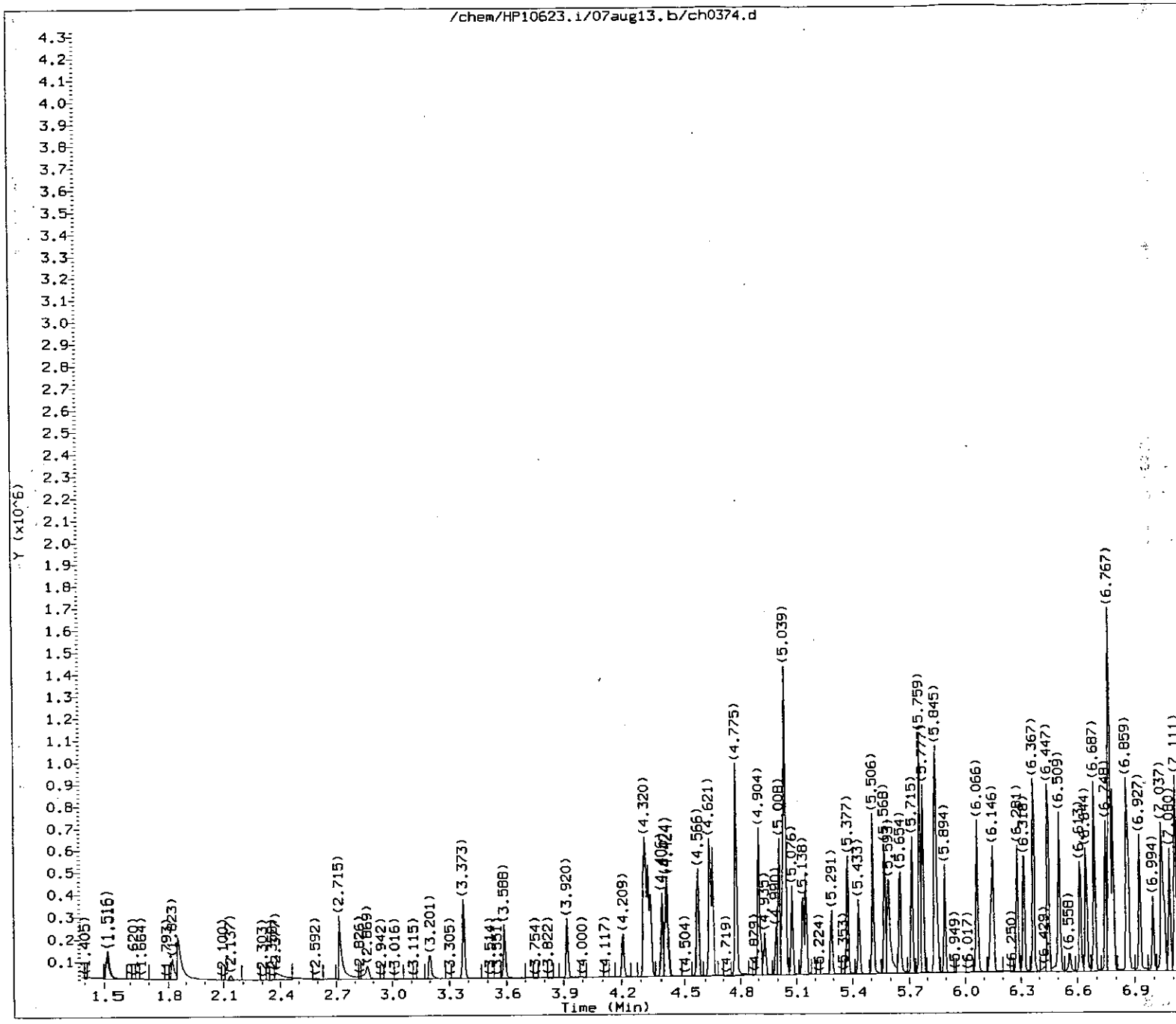
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 879
Retention Time (minutes): 6.785
Quant Ion : 162
Area (flag) : 334515 M
Concentration (ng/ul) : 57.2113
Integration start scan : 877 Integration stop scan: 881
Y at integration start : -234 Y at integration end: -234

Reason for manual integration (circle one): missed peak (improper integratio

Analyst responsible for change: mc(13) 8/14/07

0416

GC/MS audit/management approval: fm753 8/14/07



Quant Report

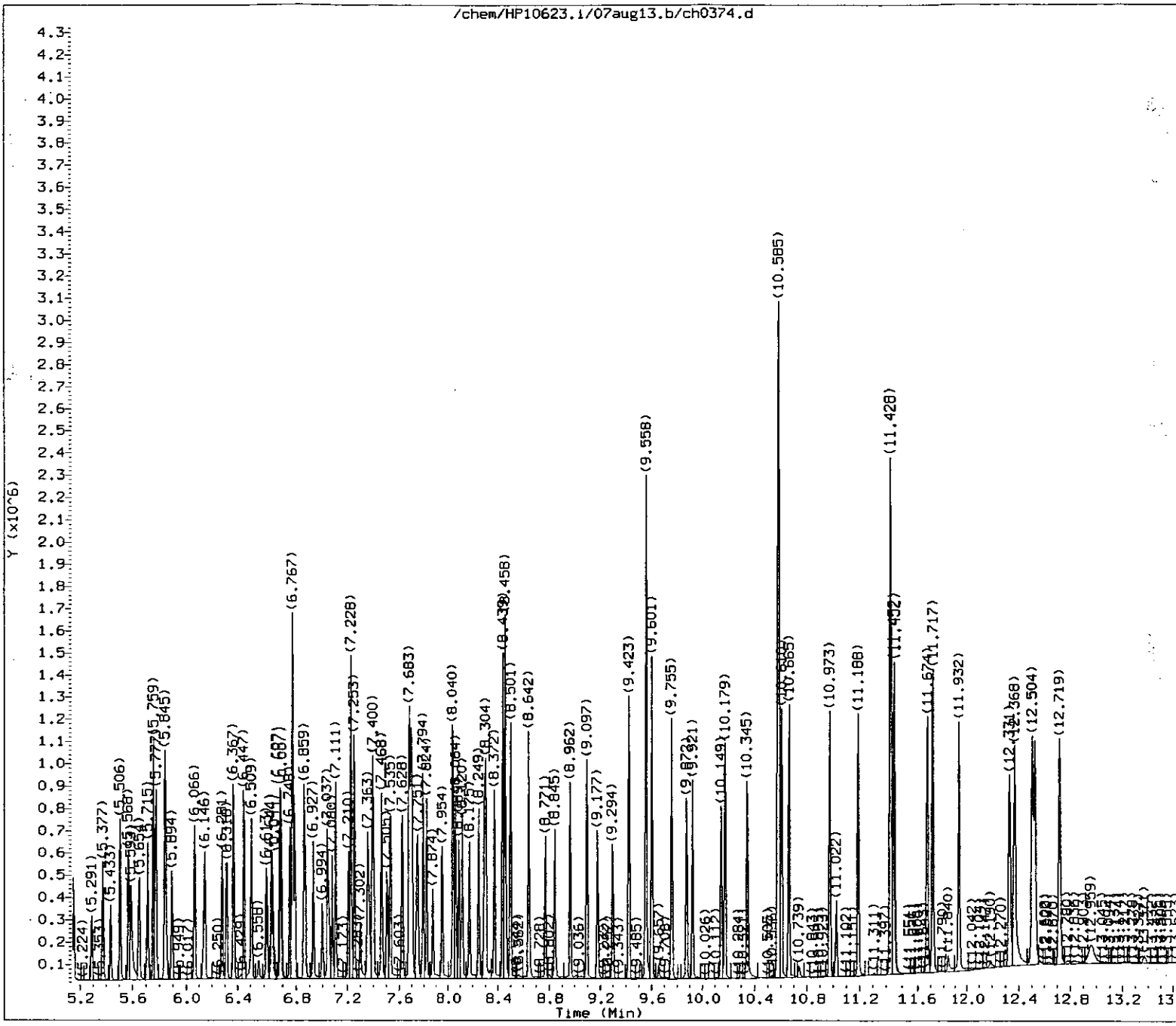
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

mac 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTDO30 Lab Sample ID: STD2187

mc 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.516	88	39231	29.0075
2) N-Nitrosodimethylamine	(1)	1.823	74	57798	28.0064
3) Pyridine	(1)	1.854	79	122601	31.2239
5) 2-Picoline	(1)	2.715	93	100785	27.9865
15) Phenol	(1)	4.338	94	132403	29.0852
16) Aniline	(1)	4.320	93	171444	29.6849
18) bis(2-Chloroethyl)ether	(1)	4.406	93	98115	29.2583
19) 2-Chlorophenol	(1)	4.424	128	98872	29.2260
20) 1,3-Dichlorobenzene	(1)	4.566	146	100710	29.2548
21) 1,4-Dichlorobenzene-d4	(1)	4.621	152	85139	40.0000
22) 1,4-Dichlorobenzene	(1)	4.639	146	103401	29.2075
23) Benzyl alcohol	(1)	4.775	108	68002	28.7344
24) 1,2-Dichlorobenzene	(1)	4.775	146	97567	29.1832
25) 2-Methylphenol	(1)	4.904	108	99816	29.8287
26) 2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	100285	29.8109
27) bis(2-Chloroisopropyl)ether	(1)	4.916	45	100285	29.8109
29) Acetophenone	(1)	5.008	105	140188	29.5537
30) N-Nitroso-di-n-propylamine	(1)	5.027	70	72419	30.1339
31) 4-Methylphenol	(1)	5.039	108	110479	29.4698
33) o-Toluidine	(1)	5.039	106	162062	29.8183
34) Hexachloroethane	(1)	5.076	117	34998	29.0962
36) Nitrobenzene	(2)	5.150	77	105252	30.2594
38) Isophorone	(2)	5.377	82	195919	29.9577
39) 2-Nitrophenol	(2)	5.433	139	51568	29.5441
40) 2,4-Dimethylphenol	(2)	5.506	107	101444	30.3980
42) bis(2-Chloroethoxy)methane	(2)	5.593	93	100479	29.3046
43) Benzoic acid	(2)	5.599	105	74900	37.0248
44) 2,4-Dichlorophenol	(2)	5.654	162	80052	29.3129
45) 1,2,4-Trichlorobenzene	(2)	5.715	180	80973	29.9637
46) Naphthalene-d8	(2)	5.759	136	366203	40.0000
47) Naphthalene	(2)	5.777	128	299612	30.2790
48) 4-Chloroaniline	(2)	5.845	127	129767	30.3757
49) 2,6-Dichlorophenol	(2)	5.845	162	79181	30.1580
51) Hexachlorobutadiene	(2)	5.894	225	36606	29.6589
52) Quinoline	(2)	6.066	129	203601	29.8635
53) Caprolactam	(2)	6.140	113	36473	29.2347
55) 4-Chloro-3-methylphenol	(2)	6.281	107	88549	29.2278
58) 2-Methylnaphthalene	(2)	6.367	142	205811	30.6298
60) 1-Methylnaphthalene	(2)	6.447	142	192276	29.9502
61) Hexachlorocyclopentadiene	(3)	6.503	237	22372	26.0043
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	77809	30.8845
64) 2,4,6-Trichlorophenol	(3)	6.619	196	56700	29.9507
65) 2,4,5-Trichlorophenol	(3)	6.644	196	66580	29.9896

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.767	154	246831	30.9200
69) Diphenyl	(3)	6.767	154	246831	30.9200
70) 1,1'-Biphenyl	(3)	6.767	154	246831	30.9200
71) 2-Chloronaphthalene	(3)	6.773	162	221534M	28.5366
72) 1-Chloronaphthalene	(3)	6.785	162	211010M	31.8316
73) Diphenyl ether	(3)	6.859	170	130178	30.6181
74) 2-Nitroaniline	(3)	6.871	138	73170	29.9545
77) Dimethylphthalate	(3)	7.037	163	216779	30.1155
79) 2,6-Dinitrotoluene	(3)	7.080	165	53511	30.2209
80) Acenaphthylene	(3)	7.111	152	288274	30.6650
81) 3-Nitroaniline	(3)	7.210	138	64535	30.1027
82) Acenaphthene-d10	(3)	7.228	164	223805	40.0000
83) Acenaphthene	(3)	7.253	153	196500	30.7153
84) 2,4-Dinitrophenol	(3)	7.302	184	29164	36.5469
85) Pentachlorobenzene	(3)	7.363	250	73287	31.2253
86) 4-Nitrophenol	(3)	7.376	109	35896	30.8977
87) Dibenzofuran	(3)	7.400	168	287676	31.2485
88) 2,4-Dinitrotoluene	(3)	7.406	165	69922	29.8228
90) 1-Naphthylamine	(3)	7.468	143	222188	30.6943
91) 2,3,4,6-Tetrachlorophenol	(3)	7.505	232	47024	30.1393
92) 2-Naphthylamine	(3)	7.535	143	229924	30.3485
93) Diethylphthalate	(3)	7.628	149	222712	30.1606
94) Fluorene	(3)	7.677	166	227090	30.1178
96) 4-Chlorophenyl-phenylether	(3)	7.695	204	98628	30.9016
98) 4-Nitroaniline	(3)	7.708	138	70461	29.6650
99) 4,6-Dinitro-2-methylphenol	(4)	7.738	198	32589	26.9480
102) N-Nitrosodiphenylamine	(4)	7.794	169	169450	30.4565
103) 1,2-Diphenylhydrazine	(4)	7.824	77	222172	30.3912
108) Phorate	(4)	8.046	75	180720	29.4002
110) 4-Bromophenyl-phenylether	(4)	8.095	248	57897	29.8352
112) Hexachlorobenzene	(4)	8.120	284	69166	30.4865
116) Pentachlorophenol	(4)	8.292	266	47492	36.8925
120) Phenanthrene-d10	(4)	8.439	188	418687	40.0000
121) Phenanthrene	(4)	8.458	178	343888	30.7045
122) Dinoseb	(4)	8.458	211	38073	25.7753
124) Anthracene	(4)	8.501	178	354295	30.1725
125) Carbazole	(4)	8.642	167	328968	29.3508
126) Methyl parathion	(4)	8.771	109	73891	30.4122
127) Ronnel	(4)	8.845	285	84222	30.2959
128) Di-n-butylphthalate	(4)	8.962	149	391270	30.0122
129) Parathion	(4)	9.097	109	46352	29.4340
134) Fluoranthene	(4)	9.423	202	381908	30.1184
135) Benzidine	(5)	9.558	184	768561	90.8171

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

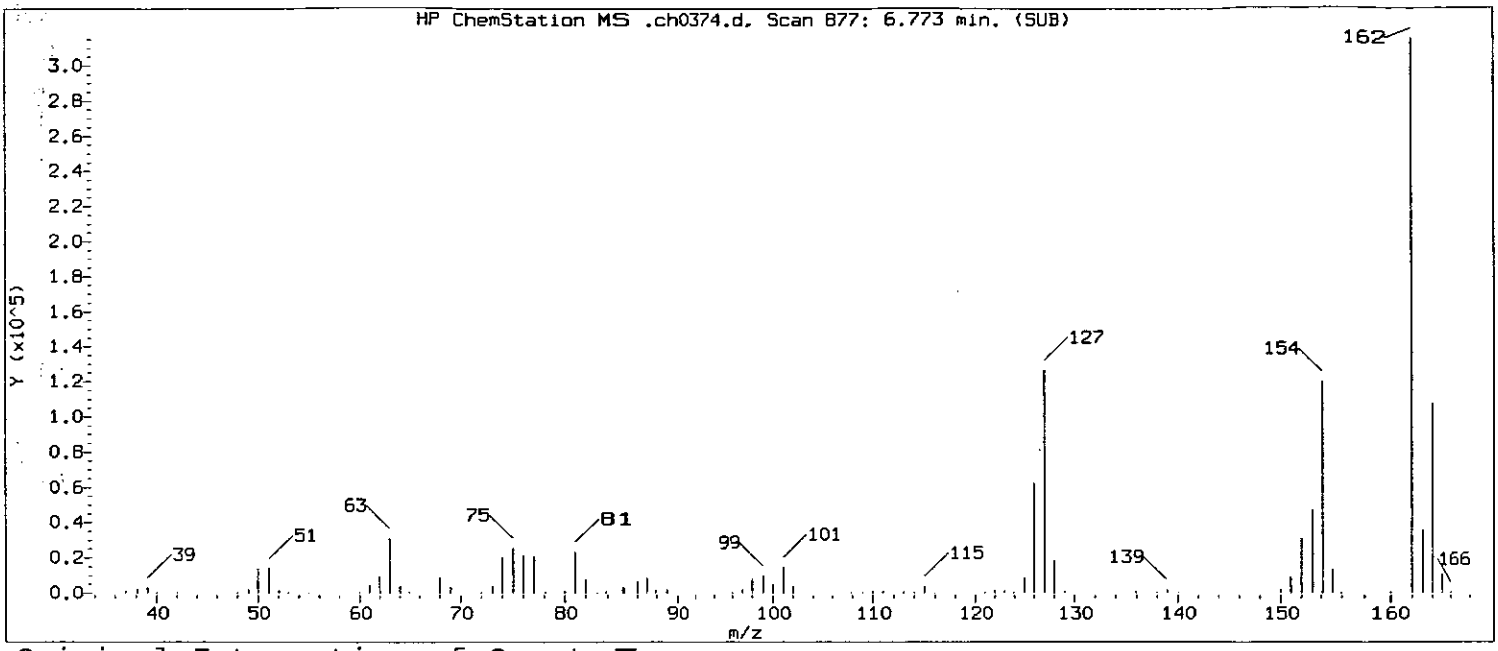
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

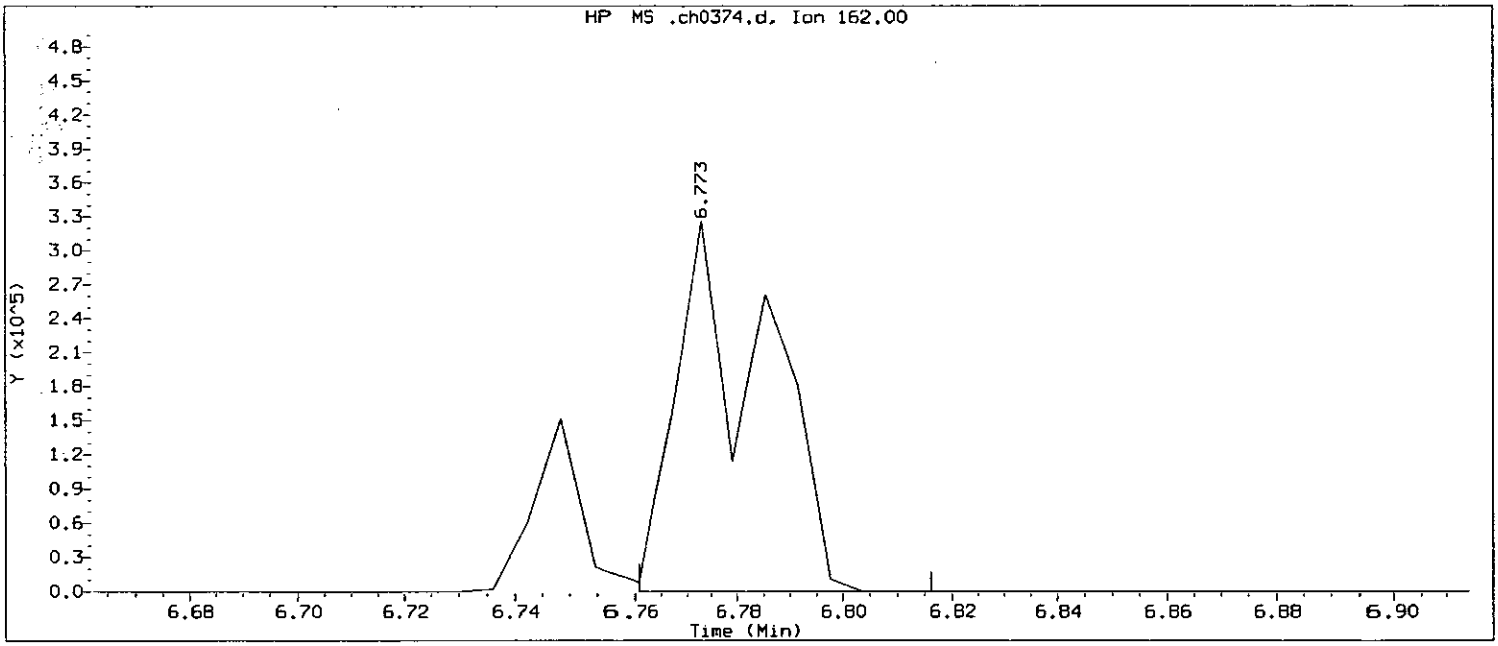
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.601	202	398911	29.9442
143) Butylbenzylphthalate	(5)	10.179	149	188521	28.7465
145) 3,3'-Dichlorobenzidine	(5)	10.579	252	150454	29.6606
146) Benzo(a)anthracene	(5)	10.579	228	351114	29.5906
147) Hexabromobenzene	(5)	10.585	552	3197	30.0074
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.585	231	71699	29.4497
149) Chrysene-d12	(5)	10.585	240	410491	40.0000
150) Chrysene	(5)	10.610	228	362260	29.7704
151) bis(2-Ethylhexyl)phthalate	(5)	10.665	149	259604	28.5306
152) 6-Methylchrysene	(5)	10.973	242	277086	28.8403
156) Di-n-octylphthalate	(6)	11.188	149	452728	29.1936
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.428	256	198004	30.3326
158) Benzo(b)fluoranthene	(6)	11.428	252	413641	29.2053
159) Benzo(k)fluoranthene	(6)	11.452	252	435543	30.1011
160) Benzo(a)pyrene	(6)	11.674	252	397774	29.9880
161) Perylene-d12	(6)	11.717	264	401811	40.0000
162) 3-Methylcholanthrene	(6)	11.932	268	225125	29.5315
166) Dibenz(a,h)acridine	(6)	12.331	279	350886	29.2156
167) Dibenz(a,j)acridine	(6)	12.368	279	364127	29.7806
168) Indeno(1,2,3-cd)pyrene	(6)	12.504	276	497612	29.5914
169) Dibenz(a,h)anthracene	(6)	12.522	278	395134	29.4776
170) Benzo(g,h,i)perylene	(6)	12.719	276	426299	29.9615
9) 2-Fluorophenol	(1)	3.373	112	95299	29.2626
13) Phenol-d5	(1)	4.326	99	125221	29.4048
14) Phenol-d6	(1)	4.326	99	125221	29.4048
35) Nitrobenzene-d5	(2)	5.138	82	99020	29.6169
66) 2-Fluorobiphenyl	(3)	6.687	172	210979	30.7652
104) 2,4,6-Tribromophenol	(3)	7.874	330	36083	30.2215
138) Terphenyl-d14	(5)	9.755	244	258236	29.3047

M = Compound was manually integrated. A = User selected an alternate hi

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:30 mac00013

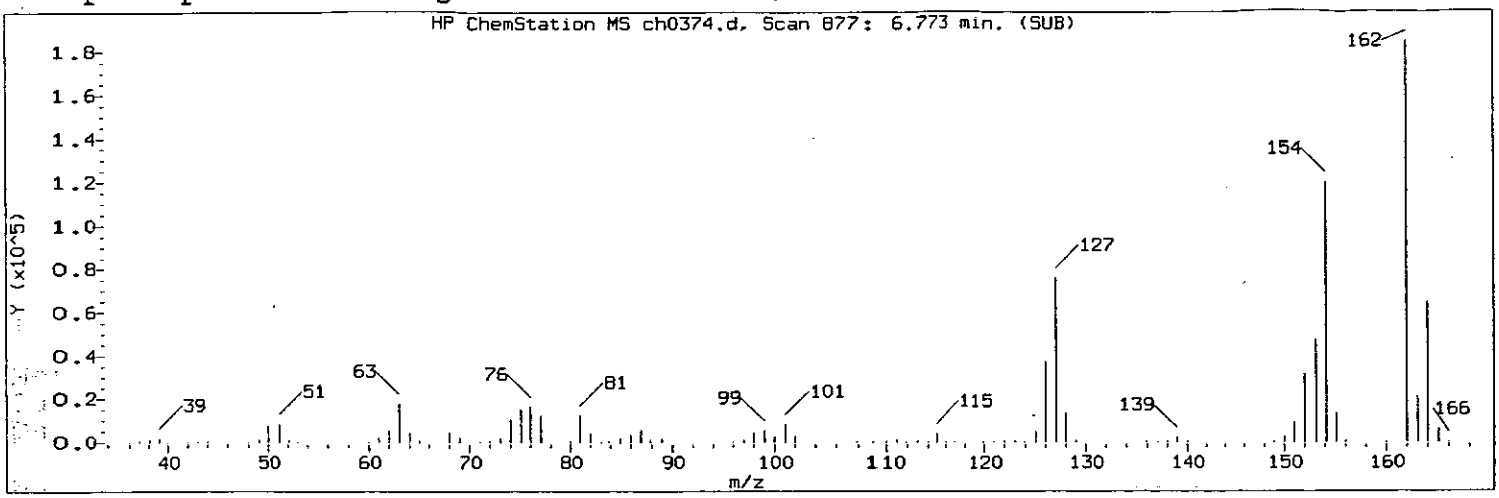
Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 388981
Concentration (ng/ul) : 42.4718
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

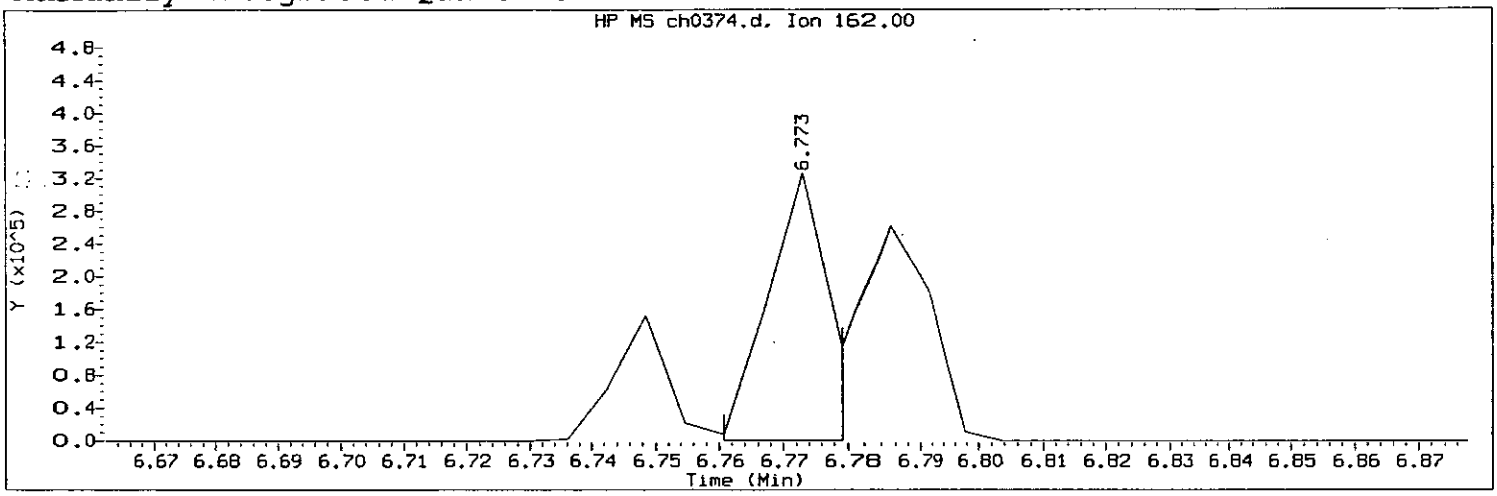
mac (13) 8/14/07
0416

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0374.d, generated on 08/14/2007 at 03:34

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number	:	71
Compound Name	:	2-Chloronaphthalene
Scan Number	:	877
Retention Time (minutes)	:	6.773
Quant Ion	:	162
Area (flag)	:	221534 M
Concentration (ng/ul)	:	28.5366
Integration start scan	:	874 Integration stop scan: 877
Y at integration start	:	800 Y at integration end: 800

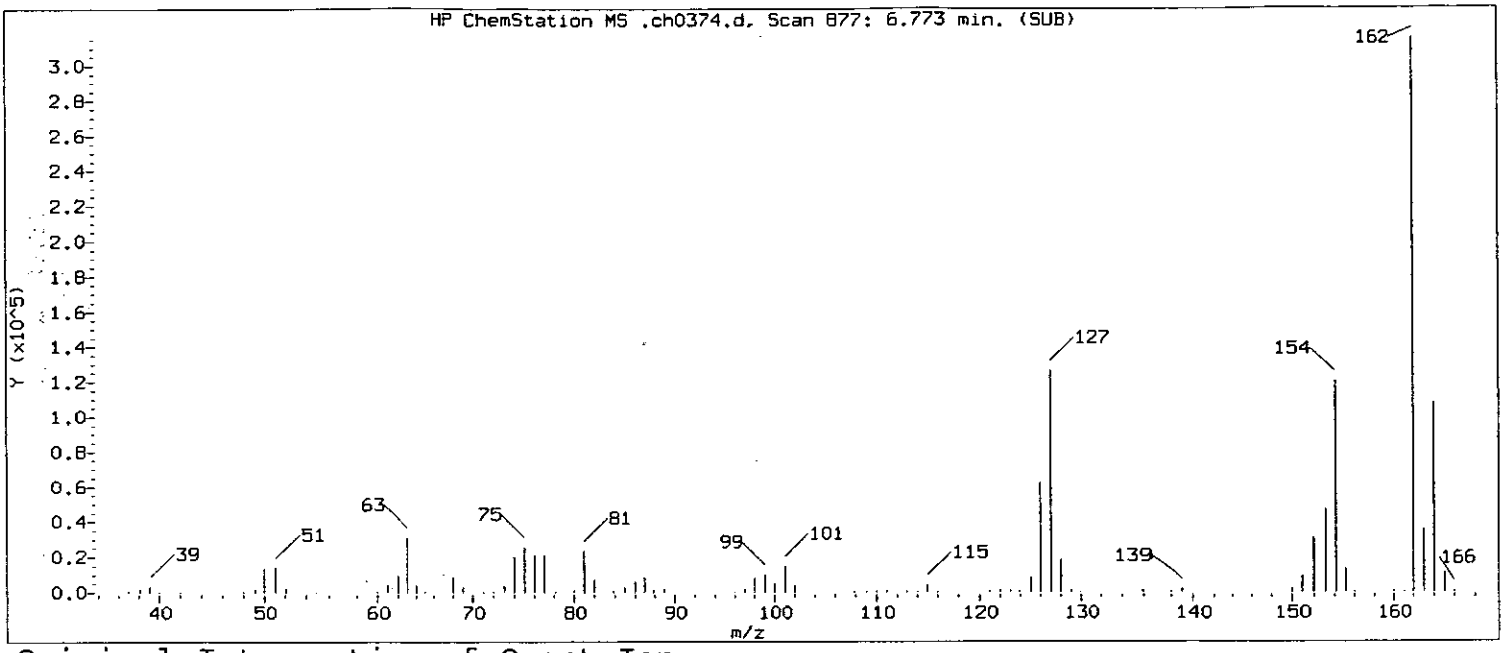
Reason for manual integration (circle one) : missed peak improper integratio

Analyst responsible for change: mc(3) 8/14/07

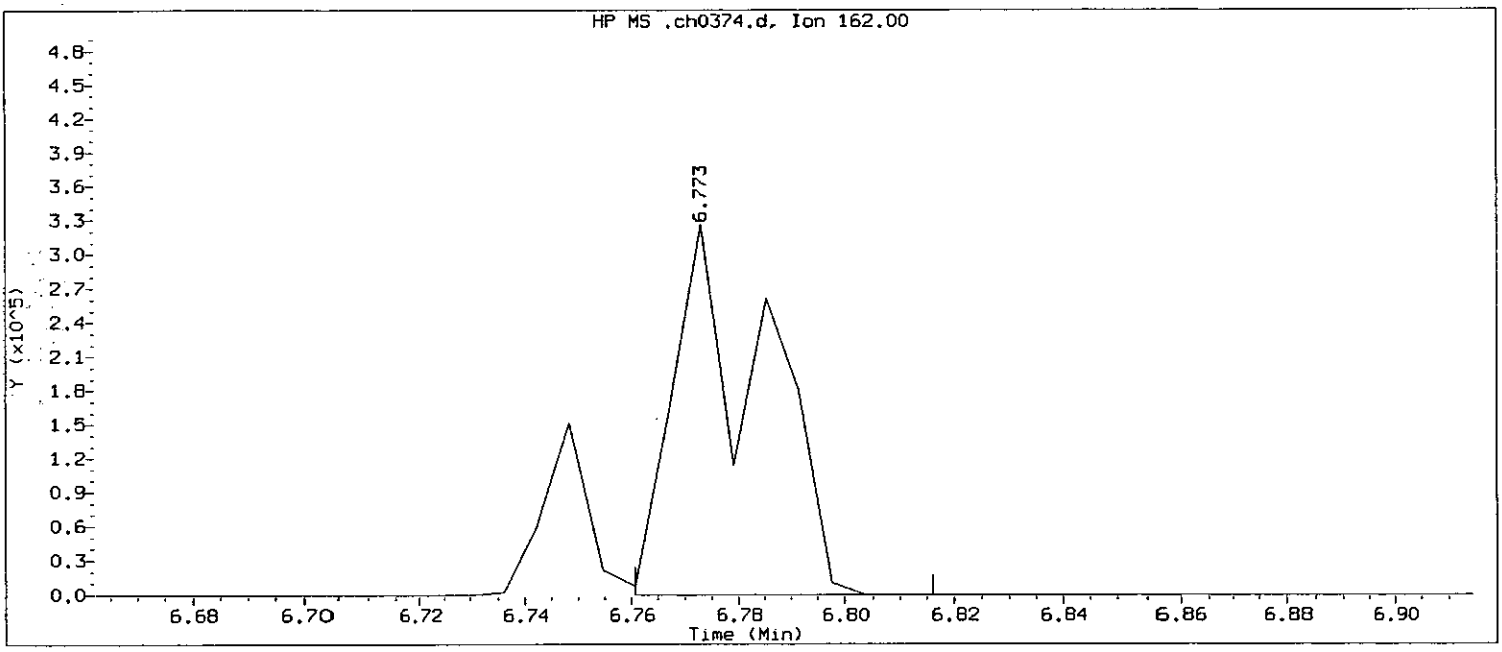
8417

GC/MS audit/management approval: bmm 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:30 mac00013

Sample Name: SSTD030 Lab Sample ID: STD2187

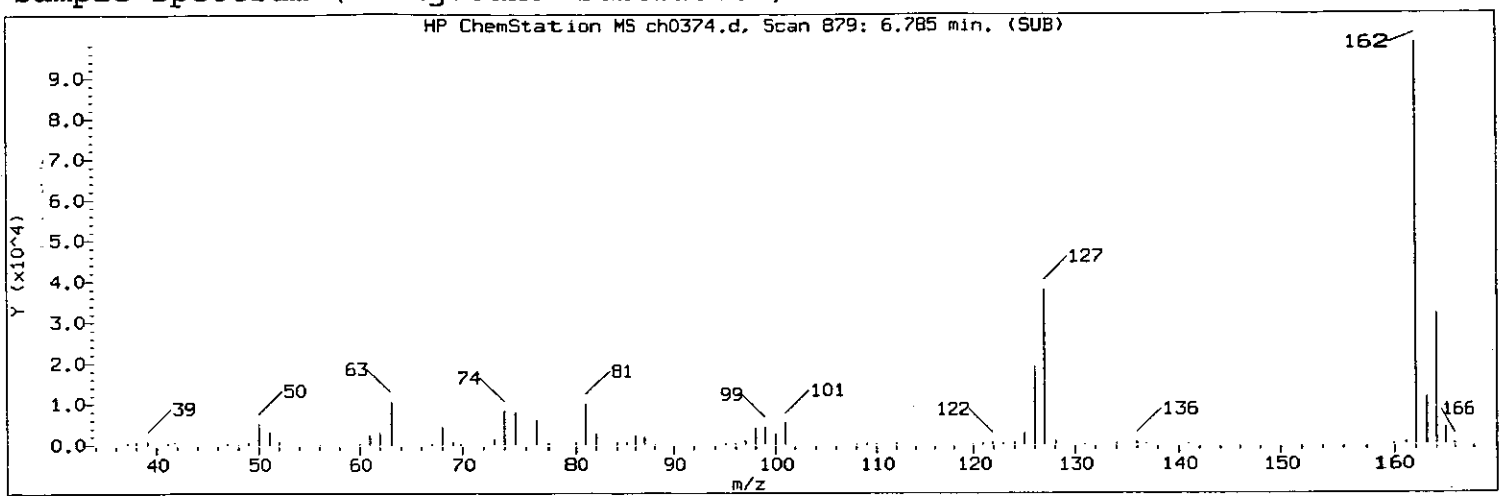
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 388981
Concentration (ng/ul) : 47.9510
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mac 8/14/07

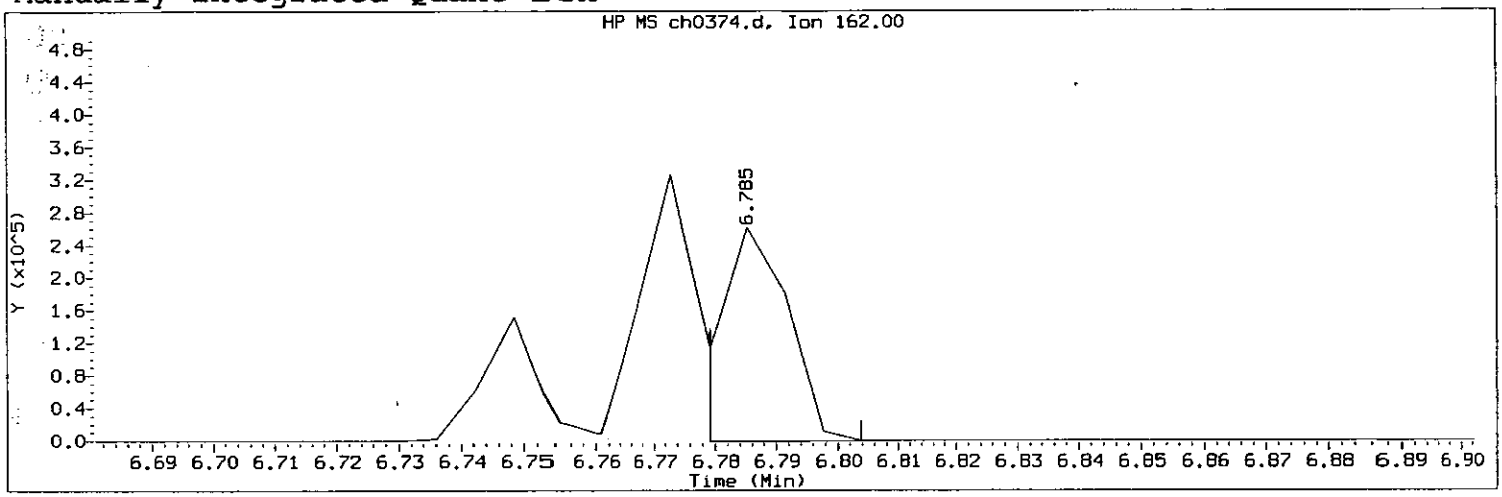
8410

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0374.d, generated on 08/14/2007 at 03:34

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0374.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 01:56 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:30
Date, time and analyst ID of latest file update: 14-Aug-2007 03:33 mac00013

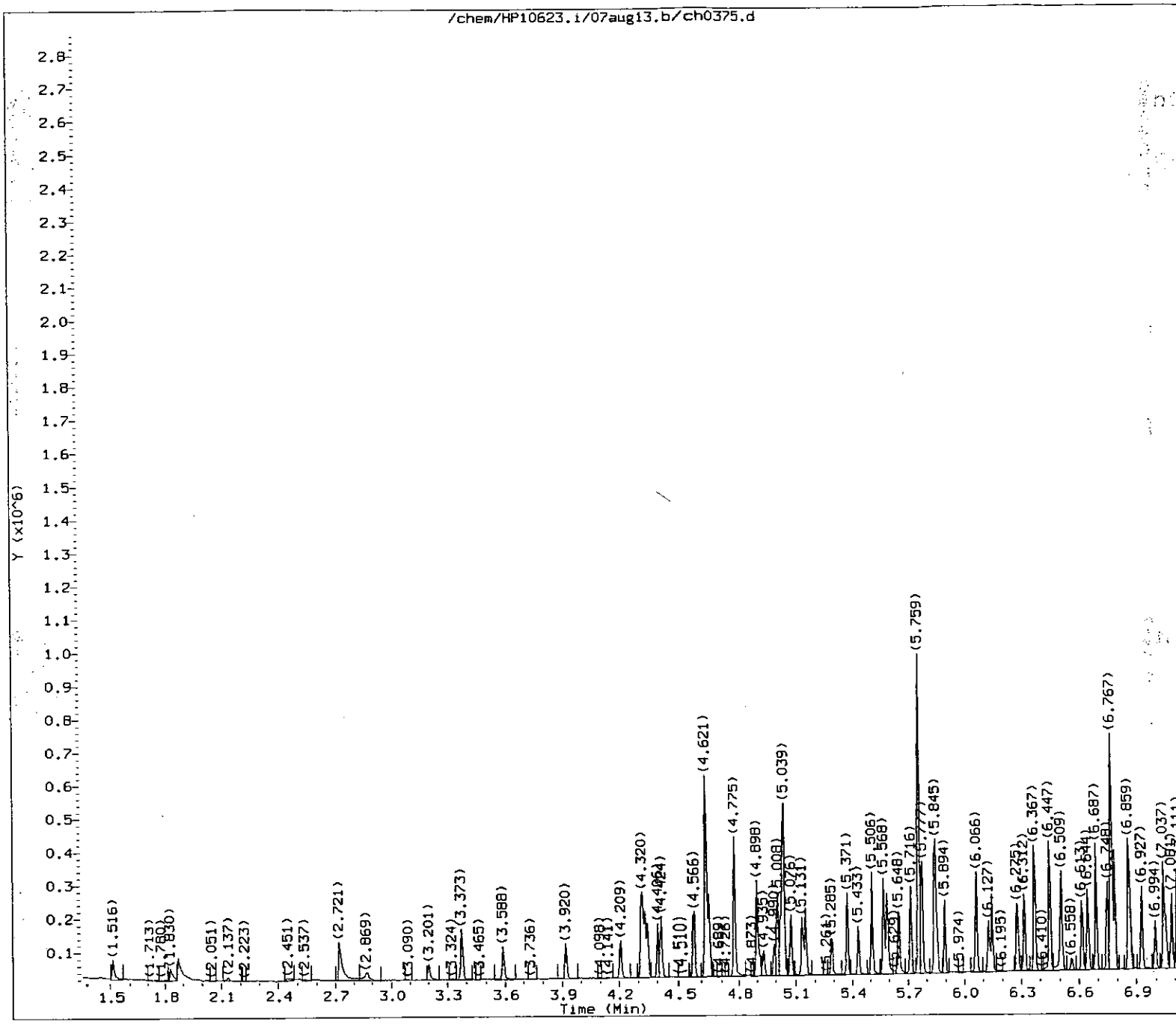
Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number	:	72	
Compound Name	:	1-Chloronaphthalene	
Scan Number	:	879	
Retention Time (minutes)	:	6.785	
Quant Ion	:	162	
Area (flag)	:	211010	M
Concentration (ng/ul)	:	31.8316	
Integration start scan	:	877	Integration stop scan: 881
Y at integration start	:	-738	Y at integration end: -738

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac (13) 8/14/07

GC/MS audit/management approval: 0419 jm753 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0375.d
Injection date and time: 14-AUG-2007 02:17

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m
Calibration date and time: 14-AUG-2007 03:34

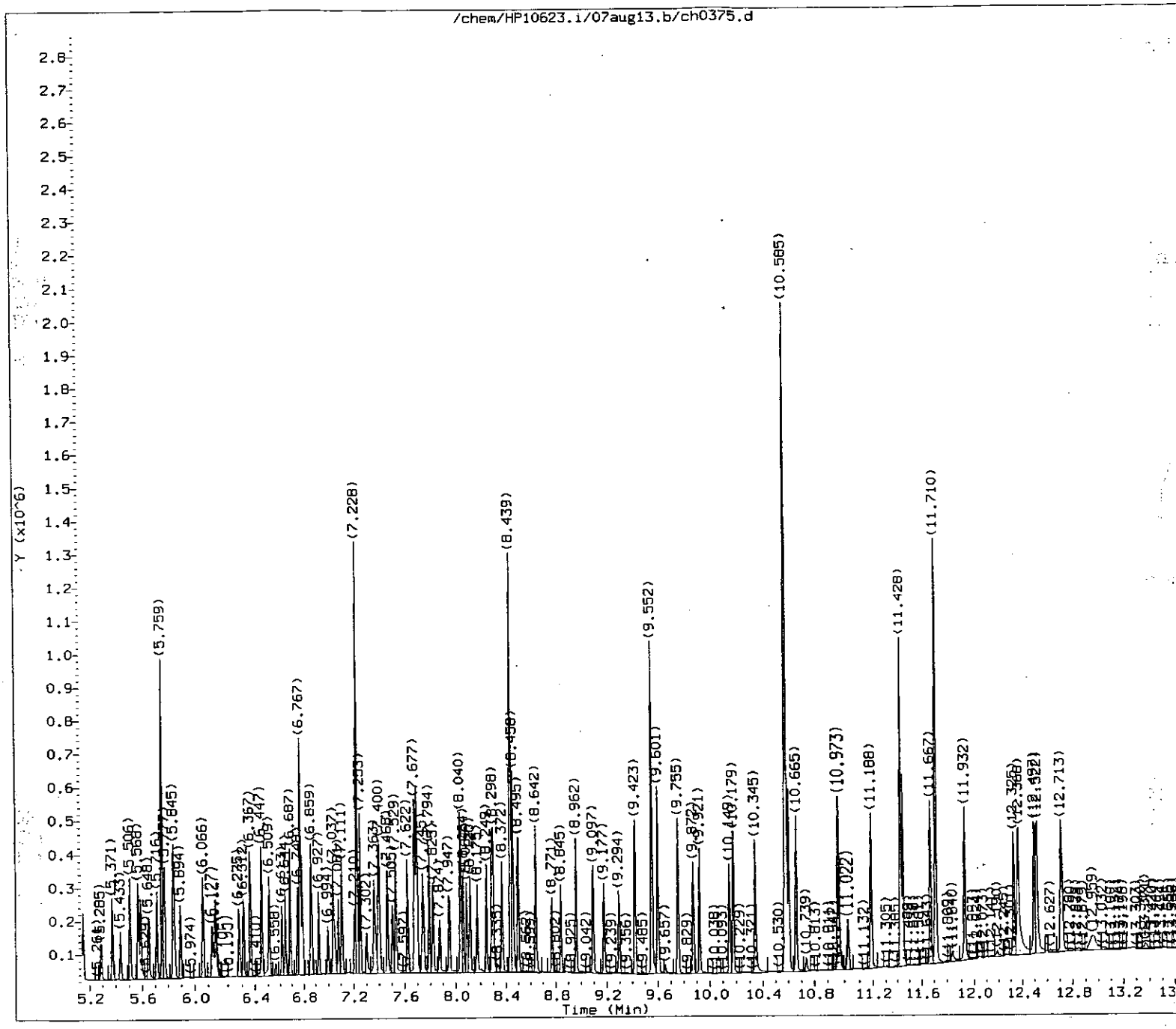
Sublist used: all1

Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015

Lab Sample ID: STD2187

mc 0429 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

mac 8/21/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 macO0013

Sample Name: SSTD015 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.516	88	16188	13.4353
2)	N-Nitrosodimethylamine	(1)	1.830	74	22205	12.3000
3)	Pyridine	(1)	1.873	79	45061M	12.9773
5)	2-Picoline	(1)	2.721	93	48269	14.7289
15)	Phenol	(1)	4.338	94	54432	13.4240
16)	Aniline	(1)	4.314	93	70562	13.6631
18)	bis(2-Chloroethyl)ether	(1)	4.406	93	42928	14.1923
19)	2-Chlorophenol	(1)	4.424	128	41164	13.6176
20)	1,3-Dichlorobenzene	(1)	4.566	146	43316	13.9952
21)	1,4-Dichlorobenzene-d4	(1)	4.621	152	77828	40.0000
22)	1,4-Dichlorobenzene	(1)	4.640	146	45483	14.2338
23)	Benzyl alcohol	(1)	4.775	108	30181	14.1489
24)	1,2-Dichlorobenzene	(1)	4.775	146	41847	13.9356
25)	2-Methylphenol	(1)	4.898	108	40932	13.6762
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	40947M	13.6215
27)	bis(2-Chloroisopropyl)ether	(1)	4.916	45	40947M	13.6215
29)	Acetophenone	(1)	5.008	105	59081	13.8796
30)	N-Nitroso-di-n-propylamine	(1)	5.021	70	30298	14.0173
31)	4-Methylphenol	(1)	5.039	108	47754	14.1355
33)	o-Toluidine	(1)	5.033	106	68708	14.0486
34)	Hexachloroethane	(1)	5.076	117	15191	14.0373
36)	Nitrobenzene	(2)	5.150	77	44529	14.2064
38)	Isophorone	(2)	5.371	82	83642	14.1953
39)	2-Nitrophenol	(2)	5.433	139	20051	13.0007
40)	2,4-Dimethylphenol	(2)	5.506	107	42595	14.1721
42)	bis(2-Chloroethoxy)methane	(2)	5.586	93	41705M	13.6265
43)	Benzoic acid	(2)	5.593	105	37932	21.9191
44)	2,4-Dichlorophenol	(2)	5.654	162	34474	14.0455
45)	1,2,4-Trichlorobenzene	(2)	5.716	180	34082	14.0350
46)	Naphthalene-d8	(2)	5.759	136	334363	40.0000
47)	Naphthalene	(2)	5.777	128	127391	14.2714
48)	4-Chloroaniline	(2)	5.838	127	53819	14.0223
49)	2,6-Dichlorophenol	(2)	5.845	162	33770	14.2605
51)	Hexachlorobutadiene	(2)	5.894	225	16094	14.4196
52)	Quinoline	(2)	6.066	129	85384	13.9553
53)	Caprolactam	(2)	6.127	113	15108	13.5774
55)	4-Chloro-3-methylphenol	(2)	6.275	107	35598	13.2453
58)	2-Methylnaphthalene	(2)	6.367	142	84240	13.9672
60)	1-Methylnaphthalene	(2)	6.447	142	82633	14.2689
61)	Hexachlorocyclopentadiene	(3)	6.503	237	7277	10.1388
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	32924	14.5895
64)	2,4,6-Trichlorophenol	(3)	6.613	196	22512	13.5124
65)	2,4,5-Trichlorophenol	(3)	6.644	196	26646	13.6153

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.767	154	102342	14.3655
69) Diphenyl	(3)	6.767	154	102342	14.3655
70) 1,1'-Biphenyl	(3)	6.767	154	102342	14.3655
71) 2-Chloronaphthalene	(3)	6.773	162	94968M	13.8290
72) 1-Chloronaphthalene	(3)	6.785	162	83227M	14.1244
73) Diphenyl ether	(3)	6.859	170	53915	14.2391
74) 2-Nitroaniline	(3)	6.871	138	28058	13.1327
77) Dimethylphthalate	(3)	7.037	163	91250	14.2352
79) 2,6-Dinitrotoluene	(3)	7.081	165	20903	13.4319
80) Acenaphthylene	(3)	7.111	152	115898	13.9169
81) 3-Nitroaniline	(3)	7.210	138	24974	13.2858
82) Acenaphthene-d10	(3)	7.228	164	201842	40.0000
83) Acenaphthene	(3)	7.253	153	80167	14.1025
84) 2,4-Dinitrophenol	(3)	7.302	184	15709	23.0855
85) Pentachlorobenzene	(3)	7.363	250	30641	14.5776
86) 4-Nitrophenol	(3)	7.376	109	14846	14.3280
87) Dibenzofuran	(3)	7.400	168	115831	14.1490
88) 2,4-Dinitrotoluene	(3)	7.406	165	27378	13.3120
90) 1-Naphthylamine	(3)	7.468	143	92776	14.3623
91) 2,3,4,6-Tetrachlorophenol	(3)	7.505	232	18337	13.3829
92) 2-Naphthylamine	(3)	7.529	143	95672	14.1910
93) Diethylphthalate	(3)	7.622	149	88556	13.6064
94) Fluorene	(3)	7.677	166	93645	14.0005
96) 4-Chlorophenyl-phenylether	(3)	7.695	204	40812	14.3354
98) 4-Nitroaniline	(3)	7.702	138	27379	13.1708
99) 4,6-Dinitro-2-methylphenol	(4)	7.738	198	11075	10.9692
102) N-Nitrosodiphenylamine	(4)	7.794	169	69220	14.1595
103) 1,2-Diphenylhydrazine	(4)	7.818	77	90107	14.0526
108) Phorate	(4)	8.046	75	69422	13.0812
110) 4-Bromophenyl-phenylether	(4)	8.089	248	22921	13.5723
112) Hexachlorobenzene	(4)	8.120	284	27866	14.0125
116) Pentachlorophenol	(4)	8.292	266	27320	24.8432
120) Phenanthrene-d10	(4)	8.439	188	373039	40.0000
121) Phenanthrene	(4)	8.458	178	140080	14.2202
122) Dinoseb	(4)	8.458	211	12273	10.0888
124) Anthracene	(4)	8.501	178	146069	14.1577
125) Carbazole	(4)	8.642	167	134458	13.7459
126) Methyl parathion	(4)	8.771	109	28194	13.3765
127) Ronnel	(4)	8.845	285	34399	14.0970
128) Di-n-butylphthalate	(4)	8.962	149	153509	13.5378
129) Parathion	(4)	9.097	109	17498	12.9063
134) Fluoranthene	(4)	9.423	202	156226	14.0476
135) Benzidine	(5)	9.552	184	321587	41.4346

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

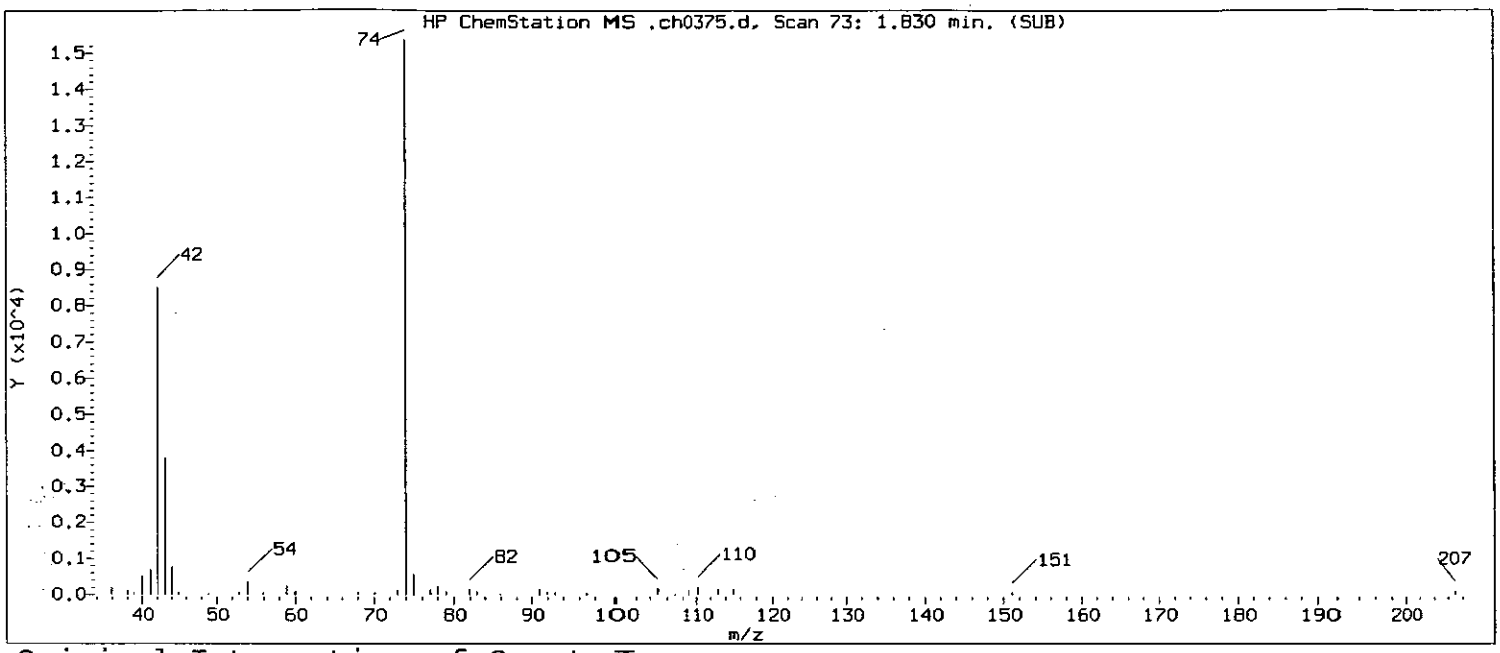
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

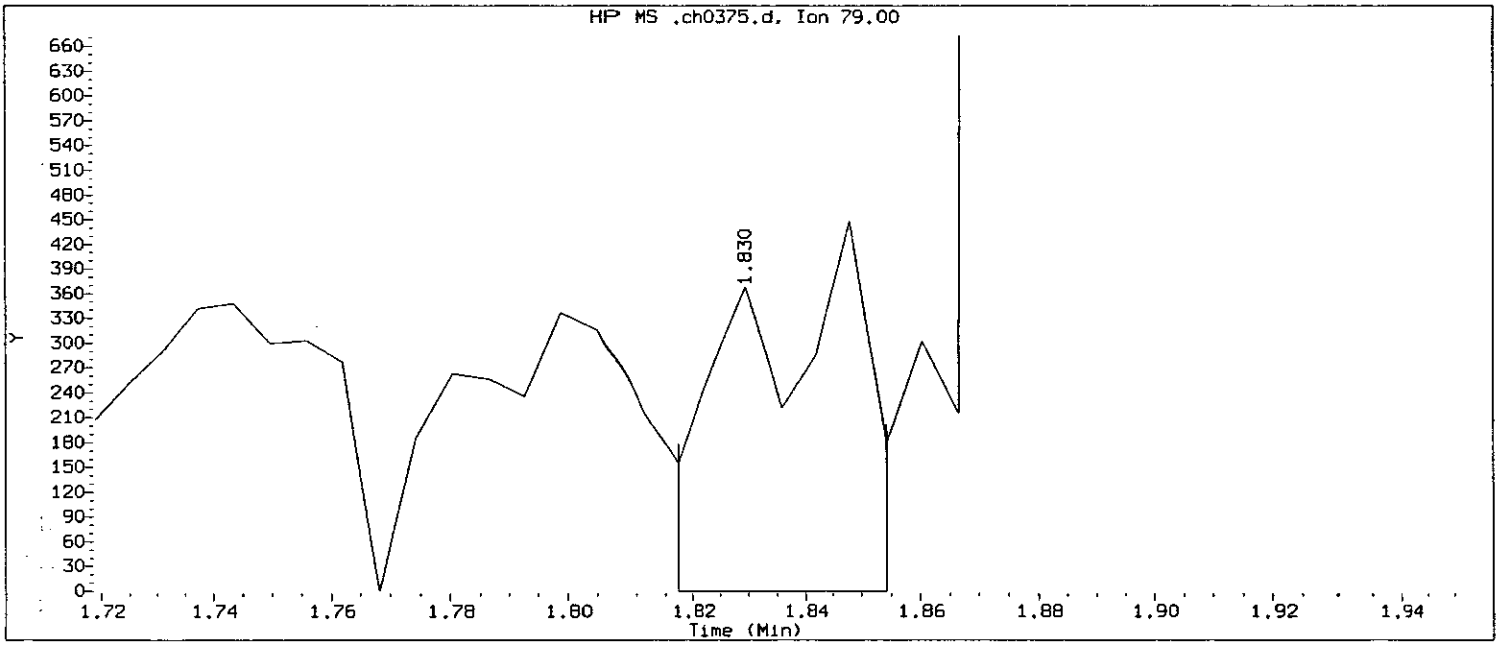
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.601	202	163642	13.4689
143)	Butylbenzylphthalate	(5)	10.179	149	76777	12.9459
145)	3,3'-Dichlorobenzidine	(5)	10.579	252	61893	13.3949
146)	Benzo(a)anthracene	(5)	10.579	228	152858	14.0027
147)	Hexabromobenzene	(5)	10.585	552	1483	14.9061
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.585	231	29997	13.5024
149)	Chrysene-d12	(5)	10.585	240	383925	40.0000
150)	Chrysene	(5)	10.604	228	149597	13.4779
151)	bis(2-Ethylhexyl)phthalate	(5)	10.665	149	108284	13.1222
152)	6-Methylchrysene	(5)	10.973	242	113818	13.0732
156)	Di-n-octylphthalate	(6)	11.188	149	185282	13.2535
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.428	256	82755	13.9128
158)	Benzo(b)fluoranthene	(6)	11.428	252	206793M	15.5850
159)	Benzo(k)fluoranthene	(6)	11.446	252	178279M	13.5928
160)	Benzo(a)pyrene	(6)	11.667	252	165804	13.7537
161)	Perylene-d12	(6)	11.710	264	372765	40.0000
162)	3-Methylcholanthrene	(6)	11.932	268	92600	13.4351
166)	Dibenz(a,h)acridine	(6)	12.325	279	146190	13.4578
167)	Dibenz(a,j)acridine	(6)	12.368	279	149621	13.5166
168)	Indeno(1,2,3-cd)pyrene	(6)	12.504	276	209222	13.7015
169)	Dibenz(a,h)anthracene	(6)	12.522	278	164807	13.5689
170)	Benzo(g,h,i)perylene	(6)	12.713	276	178588	13.8002
9)	2-Fluorophenol	(1)	3.373	112	39920	13.6999
13)	Phenol-d5	(1)	4.326	99	51821	13.6184
14)	Phenol-d6	(1)	4.326	99	51821	13.6184
35)	Nitrobenzene-d5	(2)	5.131	82	41427	13.8344
66)	2-Fluorobiphenyl	(3)	6.687	172	88251	14.4096
104)	2,4,6-Tribromophenol	(3)	7.874	330	13616	13.0550
138)	Terphenyl-d14	(5)	9.755	244	108019	13.4457

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

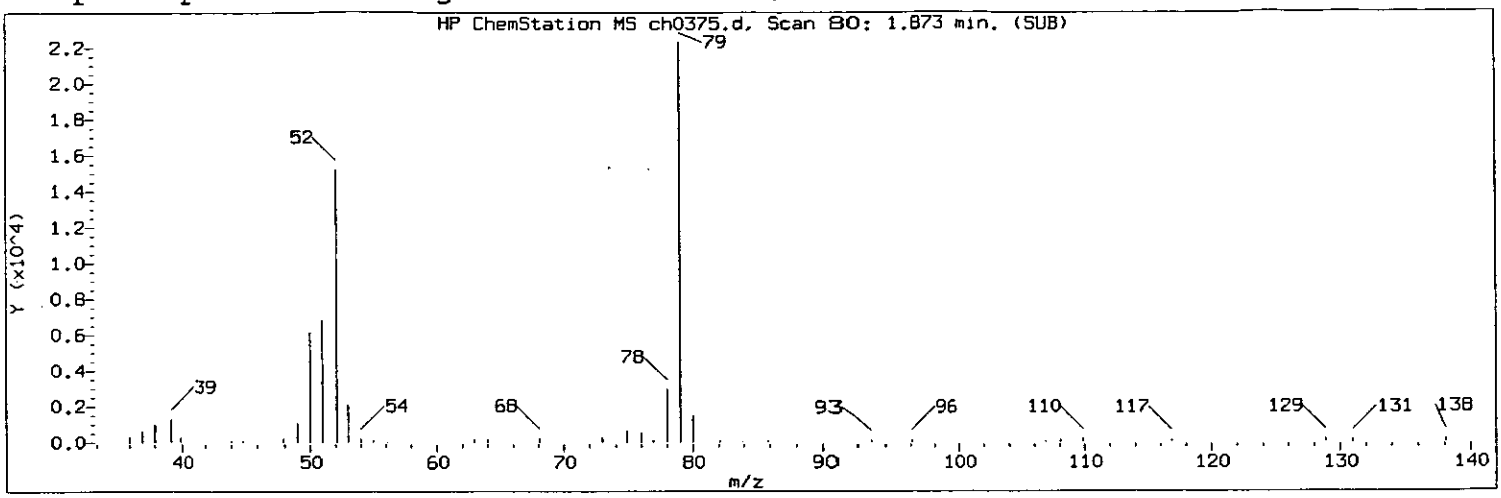
Compound Number : 3
Compound Name : Pyridine
Scan Number : 73
Retention Time (minutes): 1.830
Quant Ion : 79
Area : 649
Concentration (ng/ul) : 0.2256
Integration start scan : 70 Integration stop scan: 76
Y at integration start : 0 Y at integration end: 0

mac (3) 8/14/07

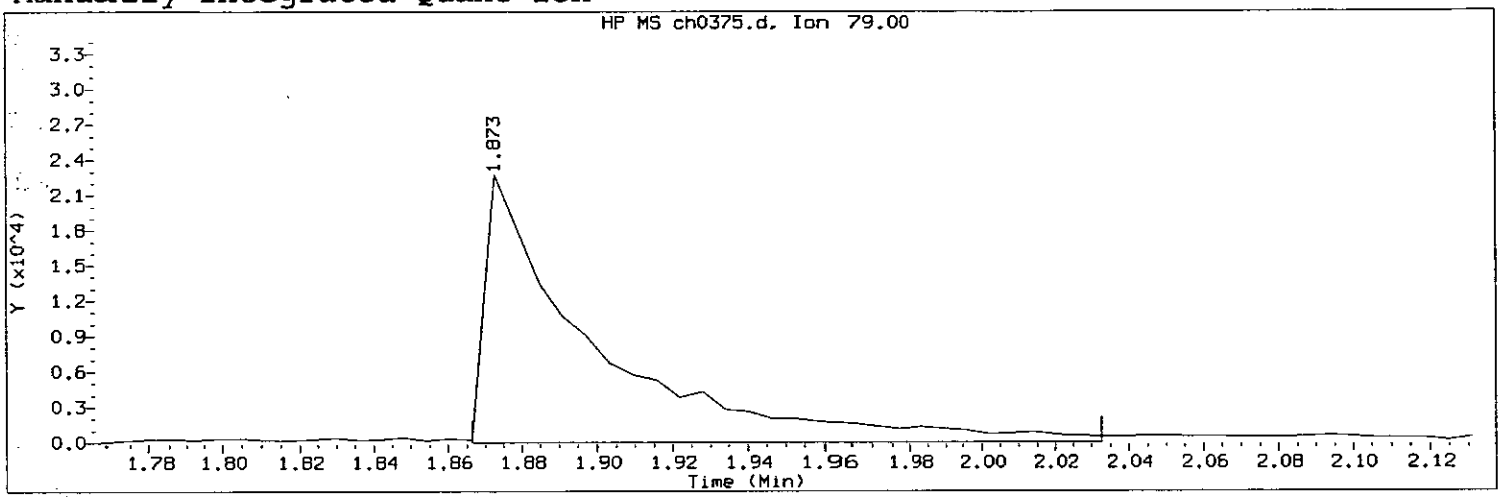
8425

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

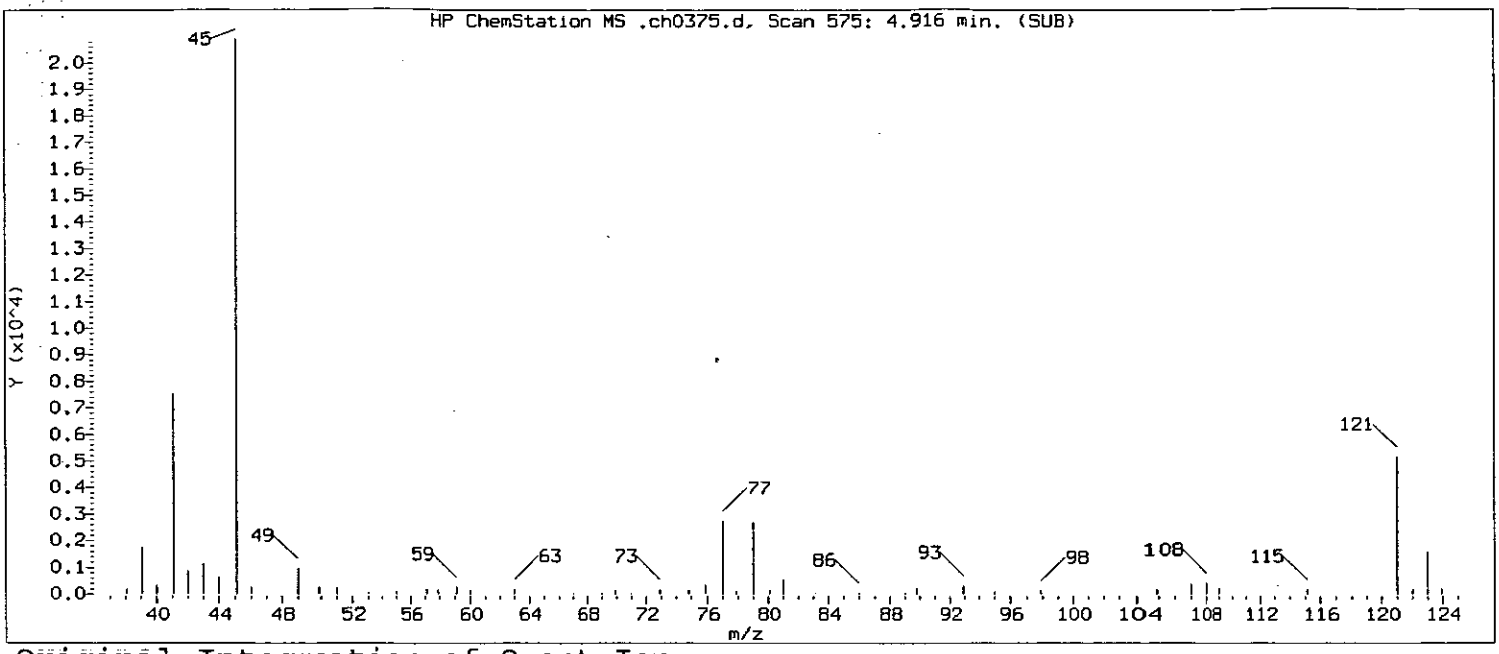
Compound Number : 3
Compound Name : Pyridine
Scan Number : 80
Retention Time (minutes): 1.873
Quant Ion : 79
Area (flag) : 45061 M
Concentration (ng/ul) : 12.9773
Integration start scan : 78 Integration stop scan: 105
Y at integration start : 25 Y at integration end: 25

Reason for manual integration (circle one): (missed peak) improper integrati

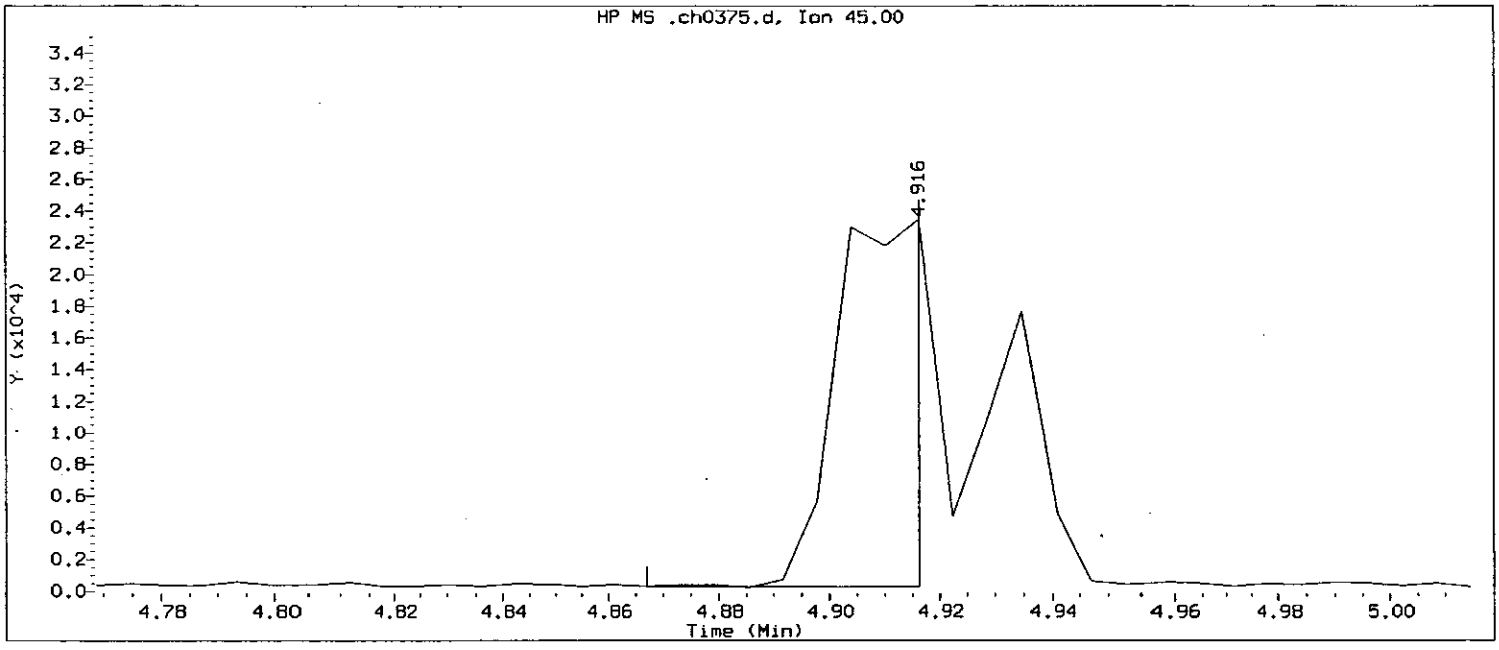
Analyst responsible for change: mac (3) 8/14/07

GC/MS audit/management approval: 8426 mm 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

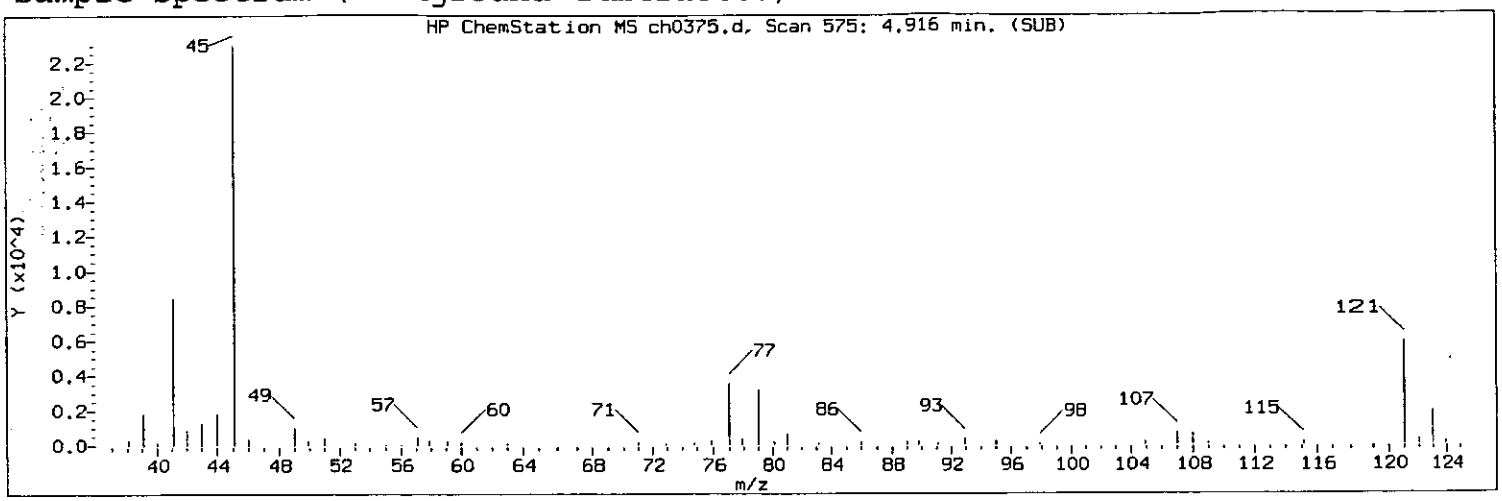
Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number : 26
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 575
Retention Time (minutes): 4.916
Quant Ion : 45
Area : 22851
Concentration (ng/ul) : 8.2651
Integration start scan : 566 Integration stop scan: 574
Y at integration start : 275 Y at integration end: 275

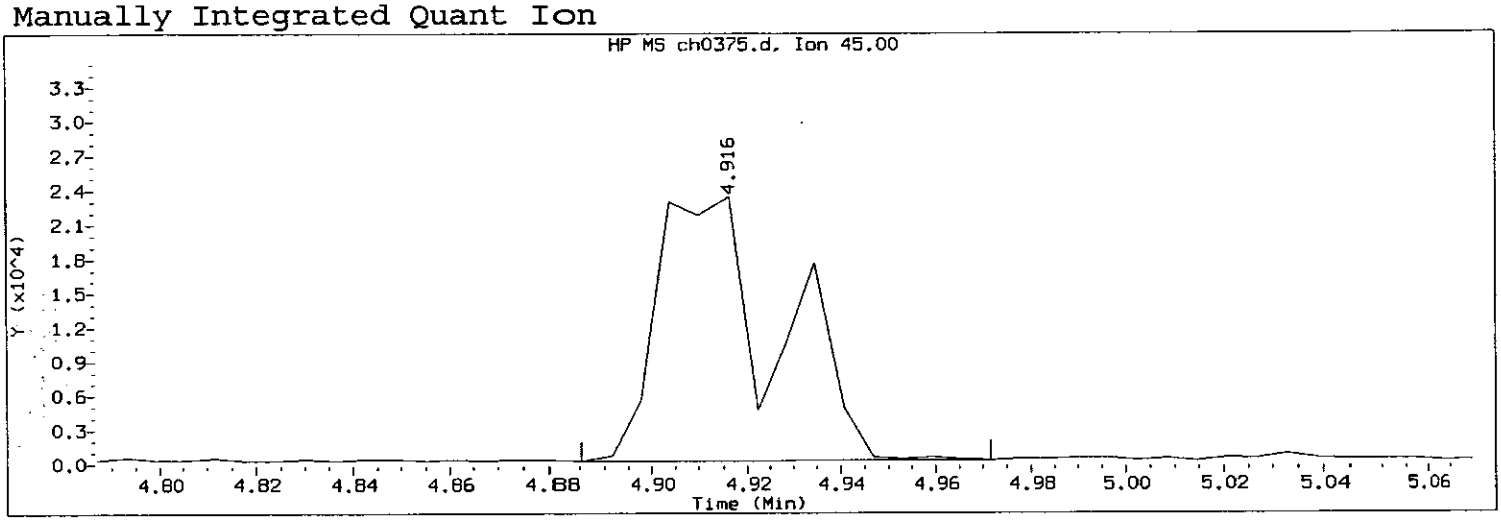
mc(13) 8/14/07
8427

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number : 26
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 575
Retention Time (minutes): 4.916
Quant Ion : 45
Area (flag) : 40947 M
Concentration (ng/ul) : 13.6215
Integration start scan : 569 Integration stop scan: 583
Y at integration start : 258 Y at integration end: 331

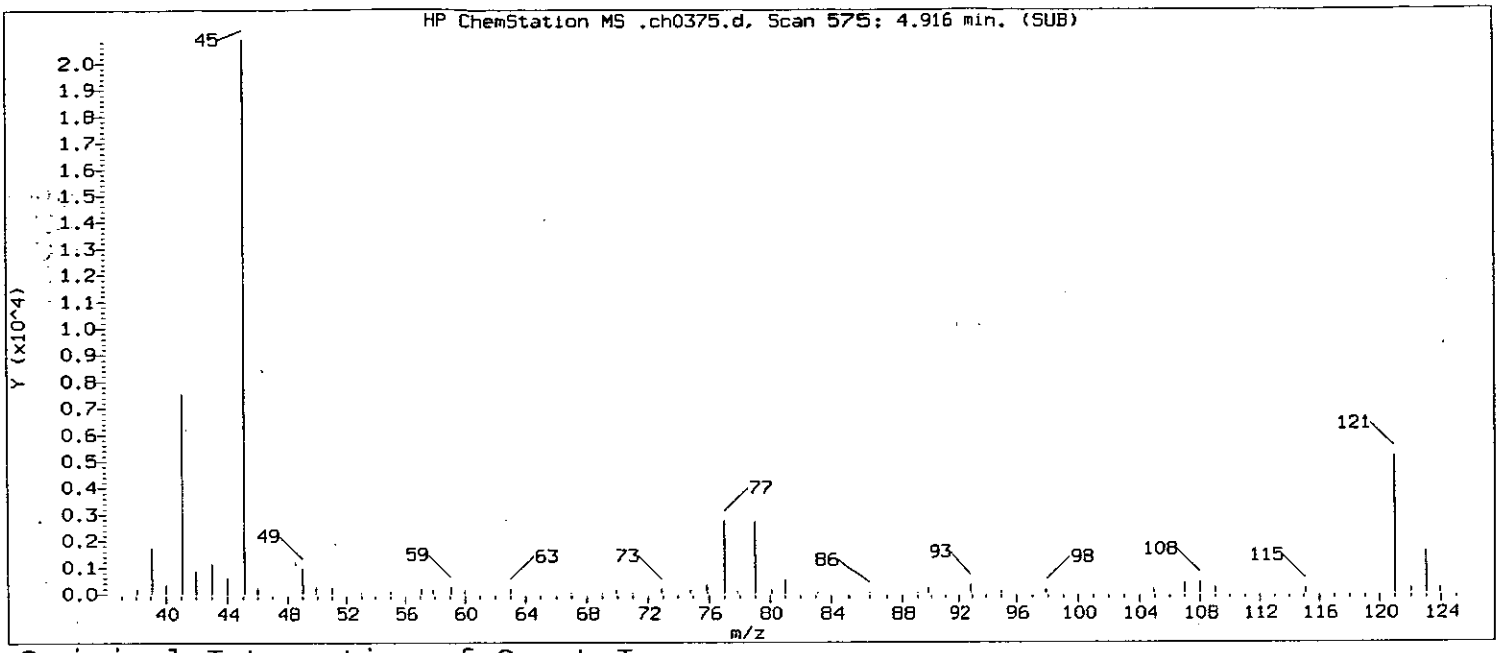
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mc(13) 8/14/07

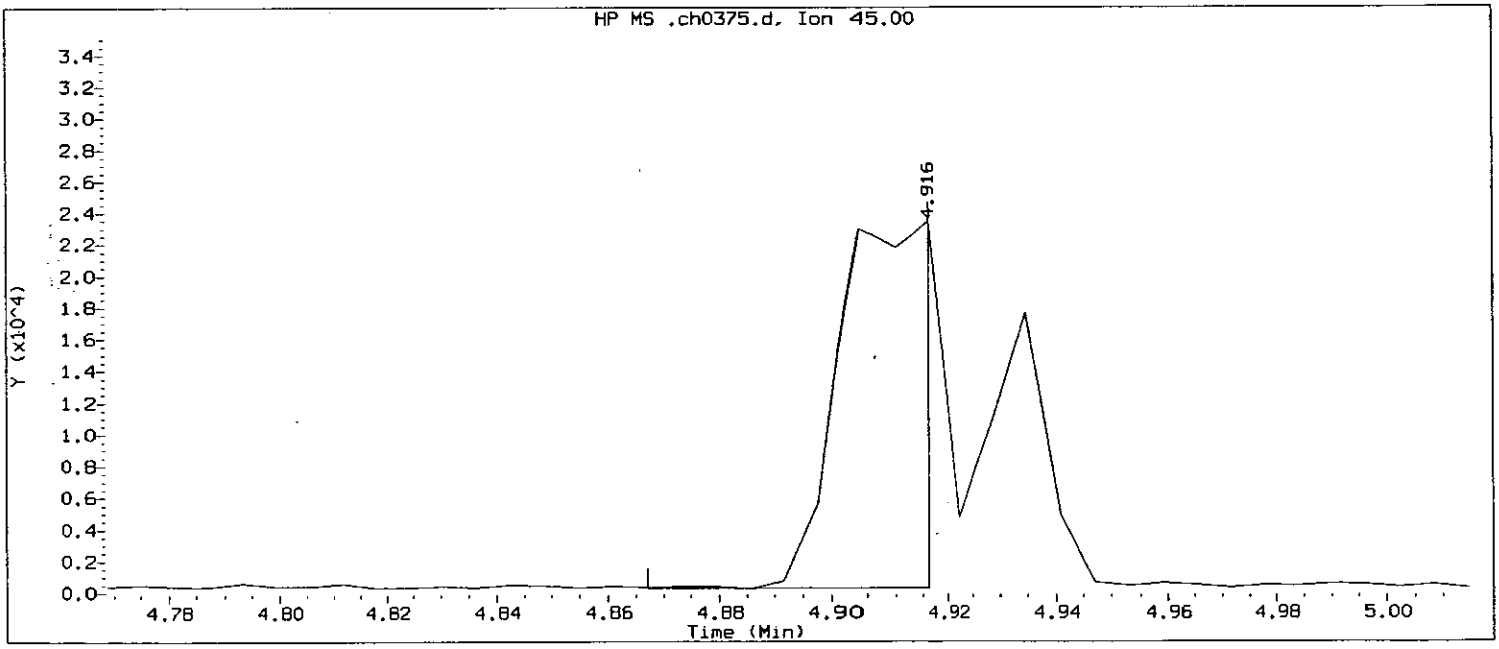
8428

GC/MS audit/management approval: 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

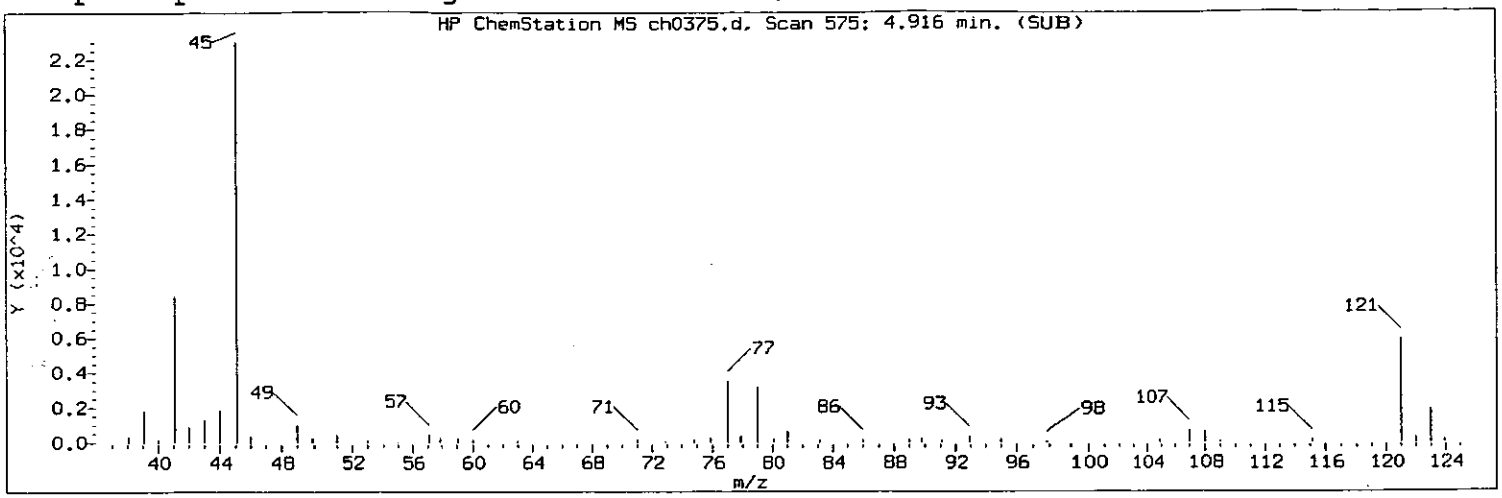
Compound Number	: 27
Compound Name	: bis(2-Chloroisopropyl)ether
Scan Number	: 575
Retention Time (minutes)	: 4.916
Quant Ion	: 45
Area	: 22851
Concentration (ng/ul)	: 8.2651
Integration start scan	: 566 Integration stop scan: 574
Y at integration start	: 275 Y at integration end: 275

mac ③ 8/14/07

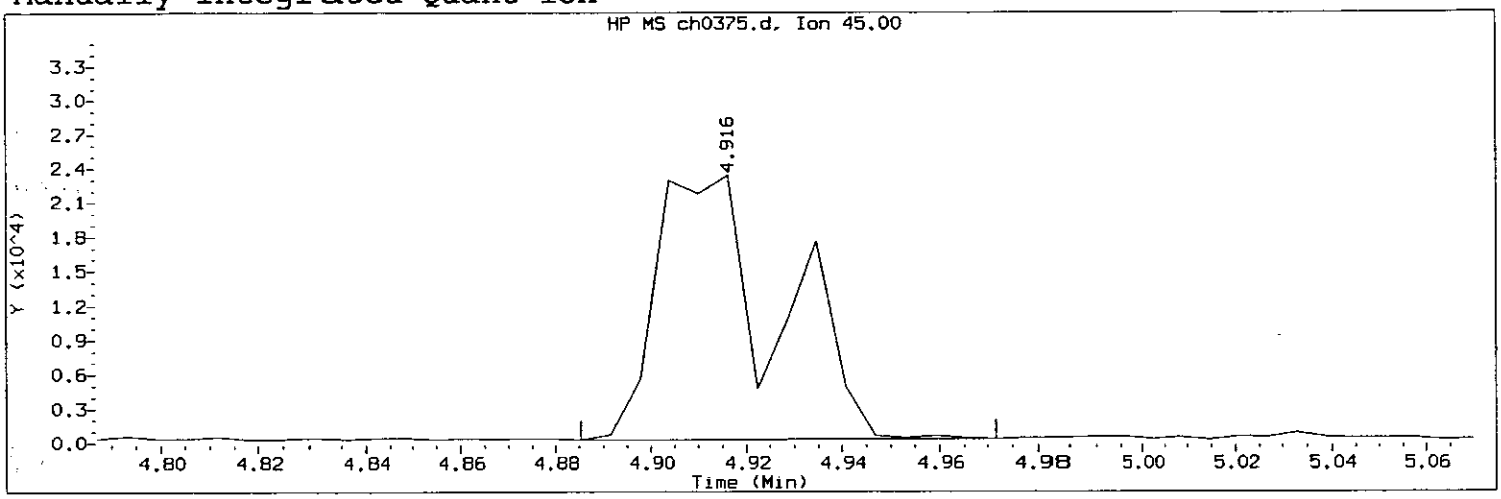
8429

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number : 27
Compound Name : bis(2-Chloroisopropyl)ether
Scan Number : 575
Retention Time (minutes): 4.916
Quant Ion : 45
Area (flag) : 40947 M
Concentration (ng/ul) : 13.6215
Integration start scan : 569 Integration stop scan: 583
Y at integration start : 258 Y at integration end: 331

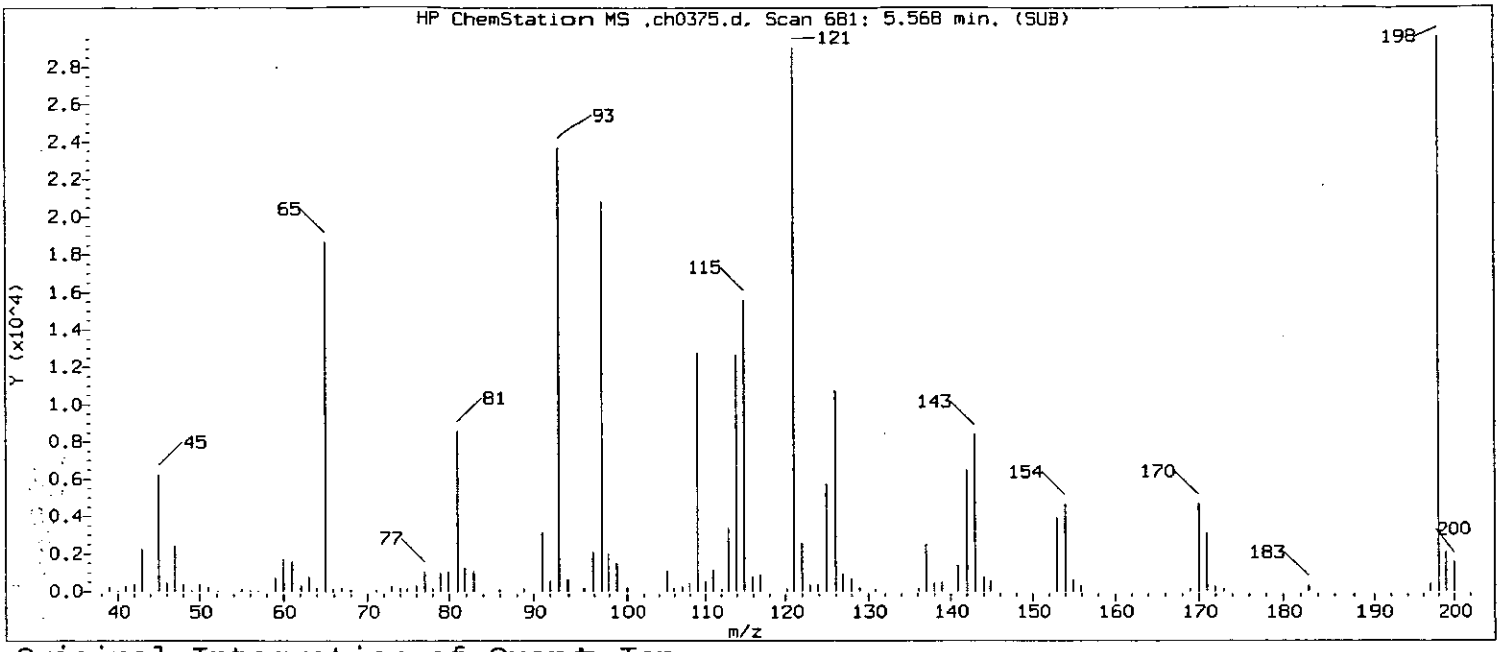
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(13) 8/14/07

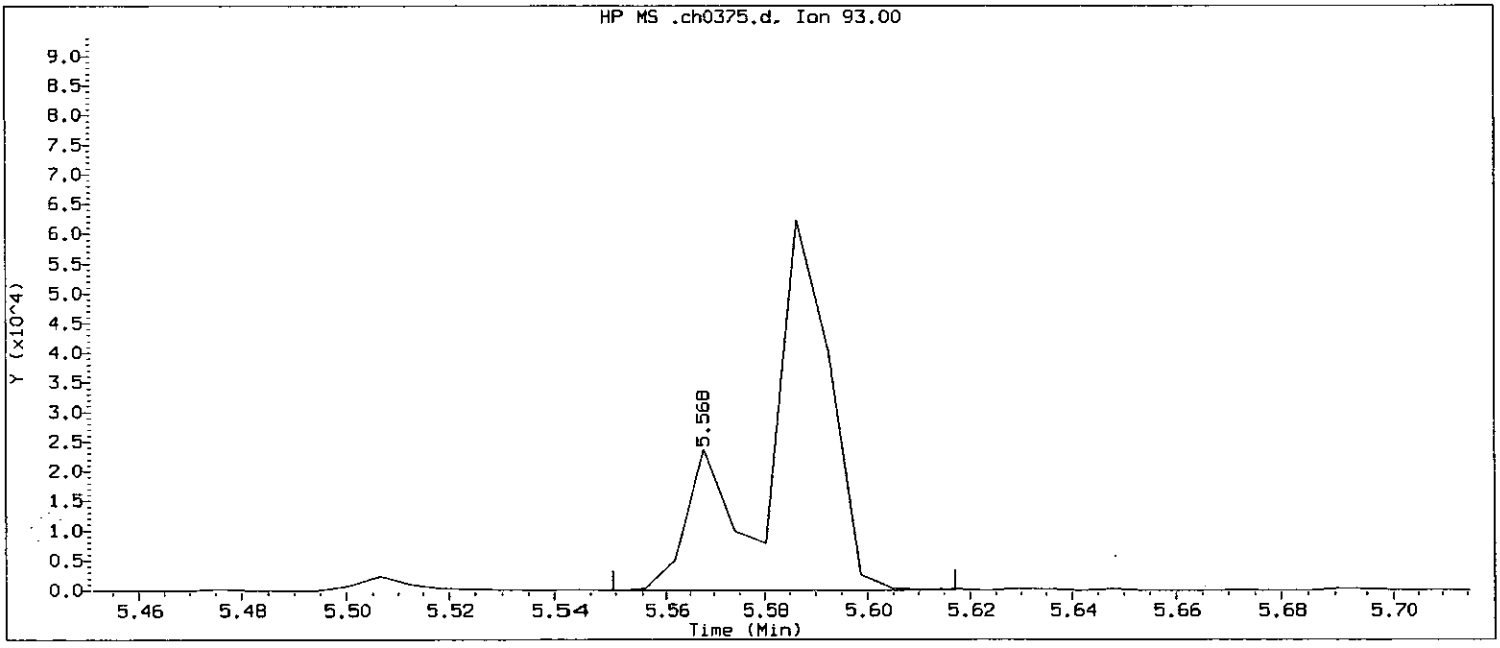
GC/MS audit/management approval: 8430 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:39

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

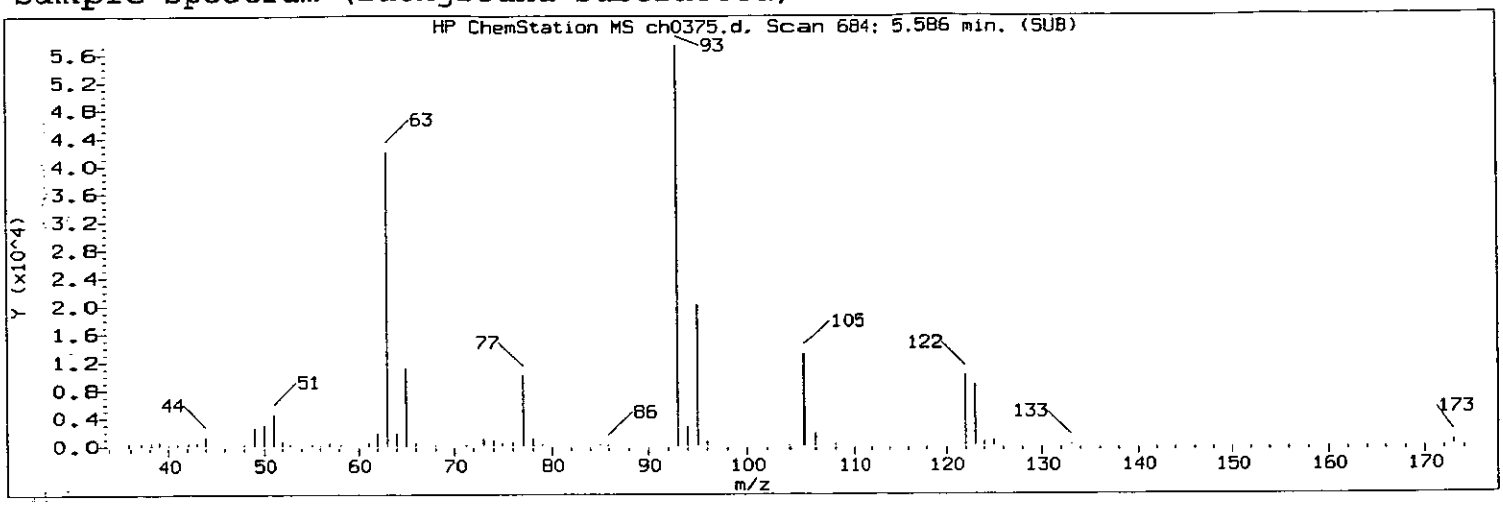
Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number : 42
Compound Name : bis(2-Chloroethoxy)methane
Scan Number : 681
Retention Time (minutes): 5.568
Quant Ion : 93
Area : 56427
Concentration (ng/ul) : 17.3256
Integration start scan : 677 Integration stop scan: 688
Y at integration start : 0 Y at integration end: 0

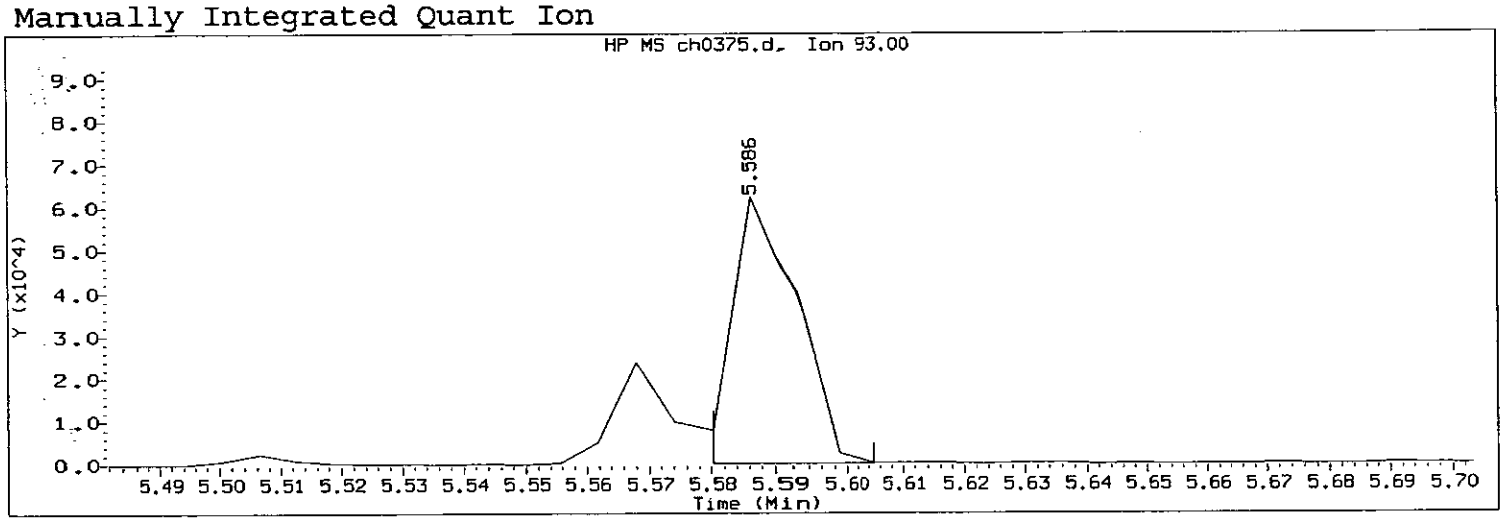
mc (13) 8/14/07
0431

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

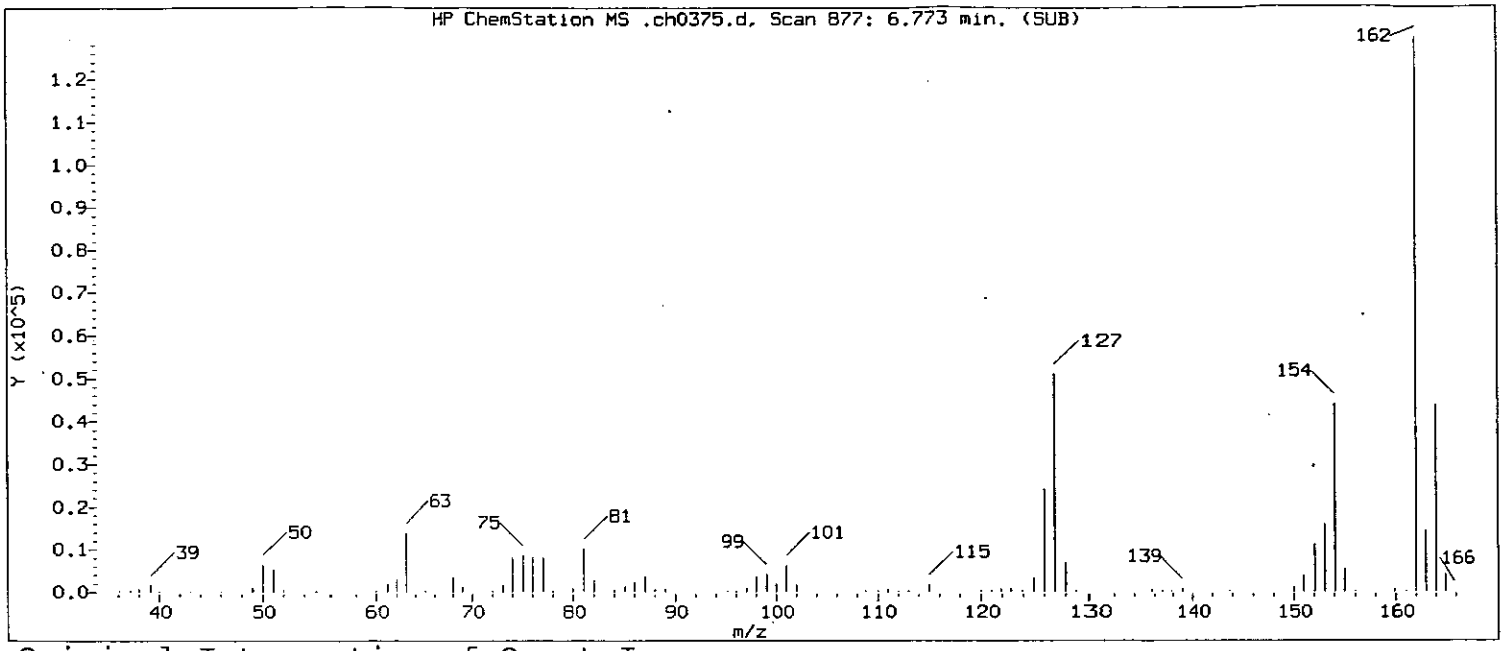
Compound Number : 42
Compound Name : bis(2-Chloroethoxy)methane
Scan Number : 684
Retention Time (minutes): 5.586
Quant Ion : 93
Area (flag) : 41705 M
Concentration (ng/ul) : 13.6265
Integration start scan : 682 Integration stop scan: 686
Y at integration start : 94 Y at integration end: 94

Reason for manual integration (circle one): missed peak (improper integrati

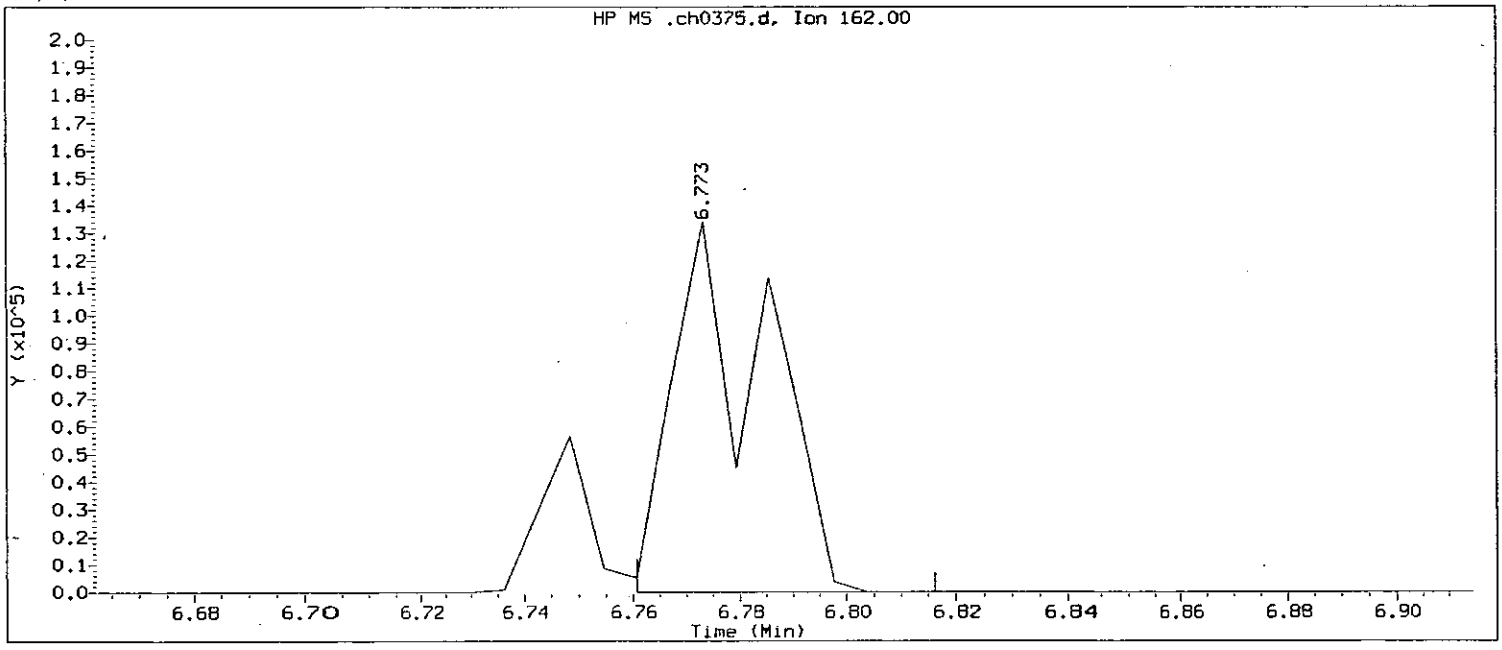
Analyst responsible for change: mac (3) 8/14/07

GC/MS audit/management approval: 8432 BM183 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

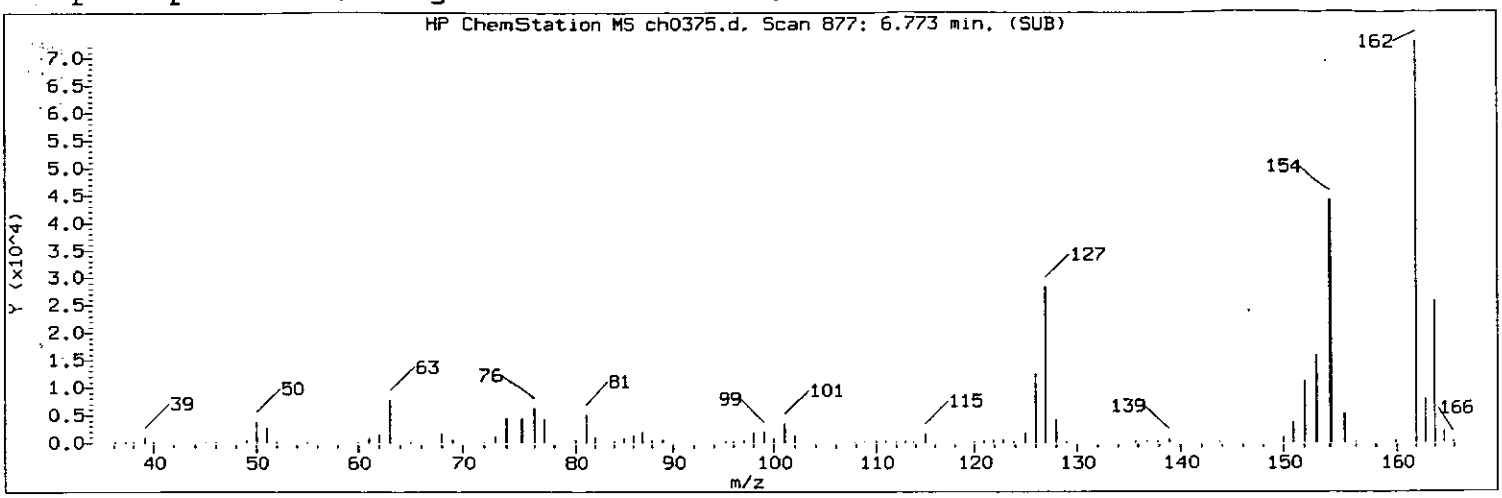
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 160793
Concentration (ng/ul) : 20.7609
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mac (13) 8/14/07

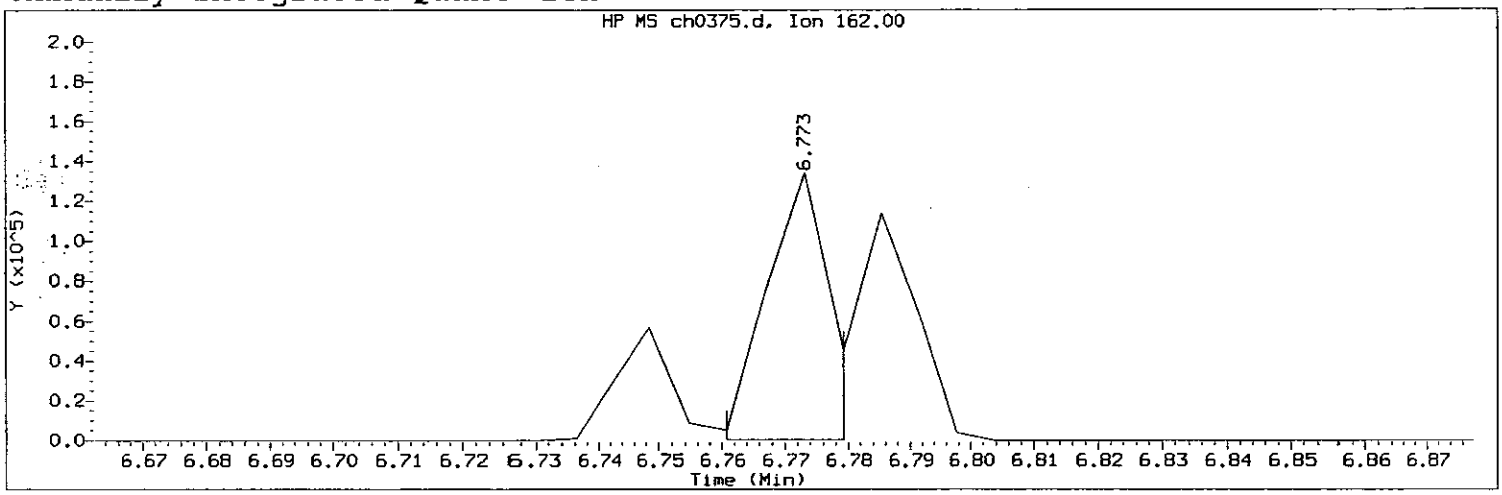
8433

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmhO0956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number	:	71
Compound Name	:	2-Chloronaphthalene
Scan Number	:	877
Retention Time (minutes)	:	6.773
Quant Ion	:	162
Area (flag)	:	94968 M
Concentration (ng/ul)	:	13.8290
Integration start scan	:	874 Integration stop scan: 877
Y at integration start	:	214 Y at integration end: 214

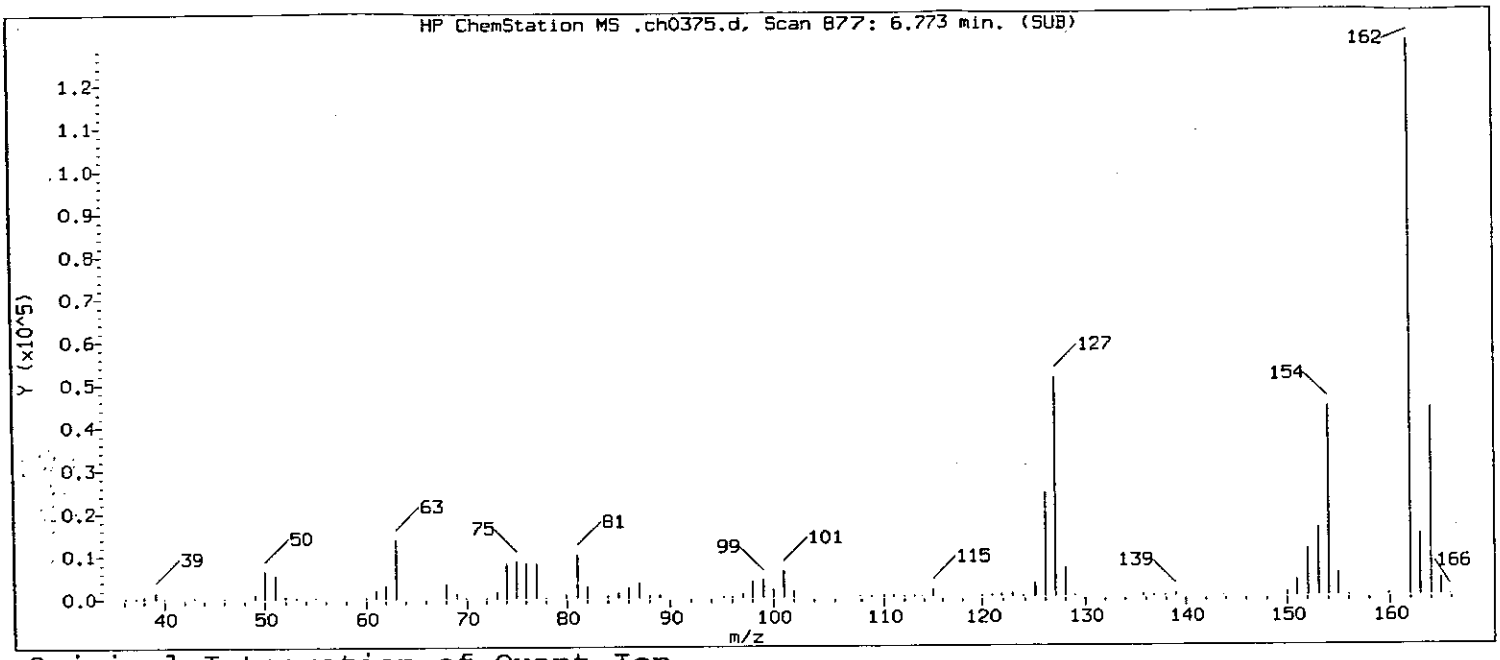
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac 8/14/07

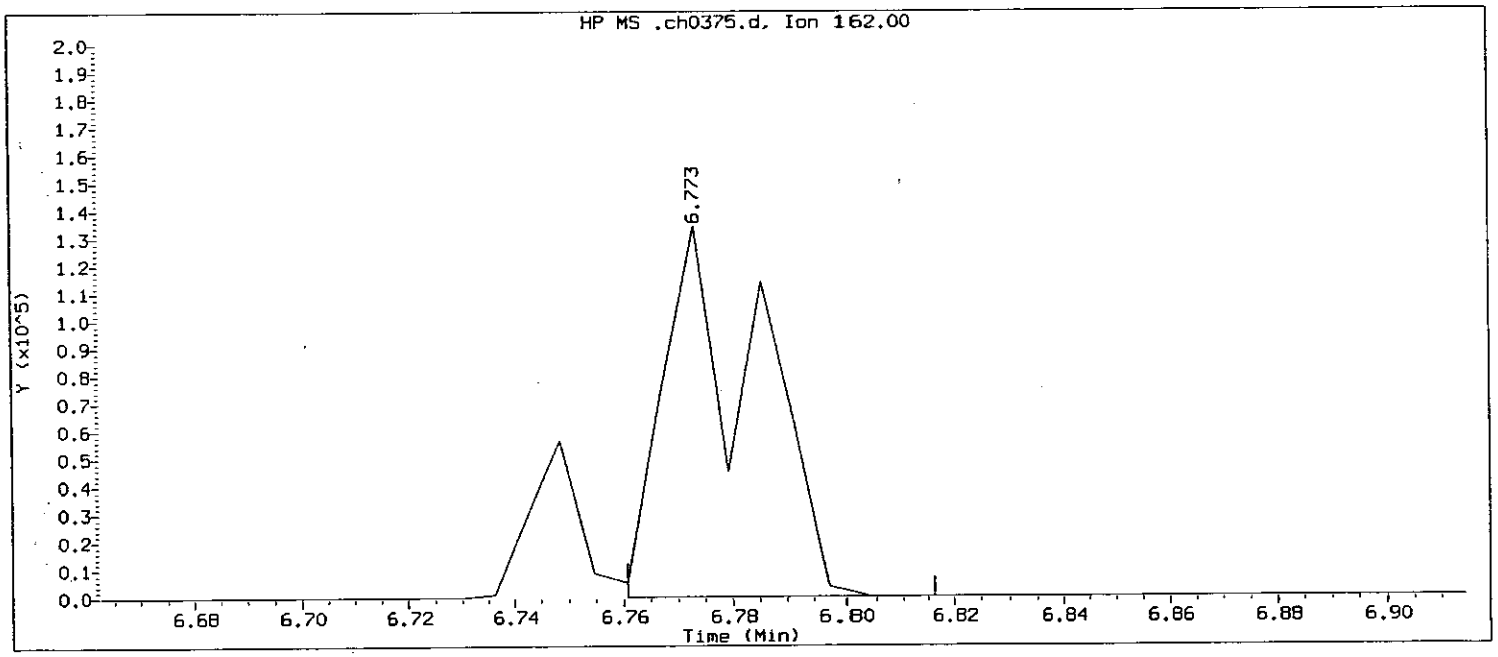
GC/MS audit/management approval: 8434 bmb 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:39

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

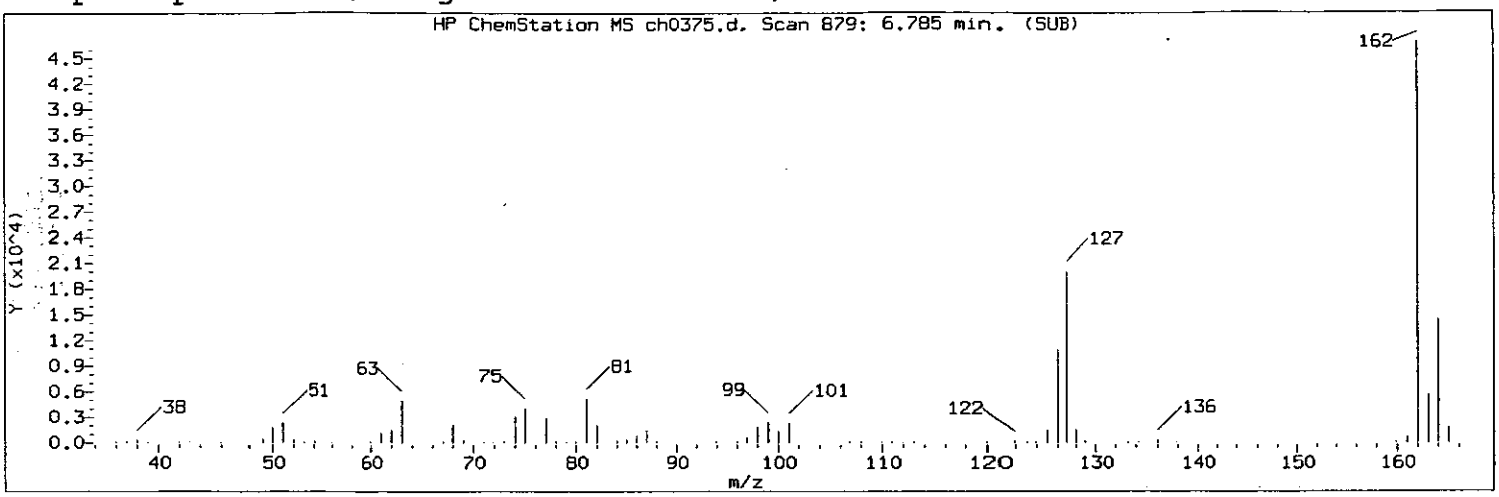
Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 160788
Concentration (ng/ul) : 23.2131
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mac(13) 8/14/07

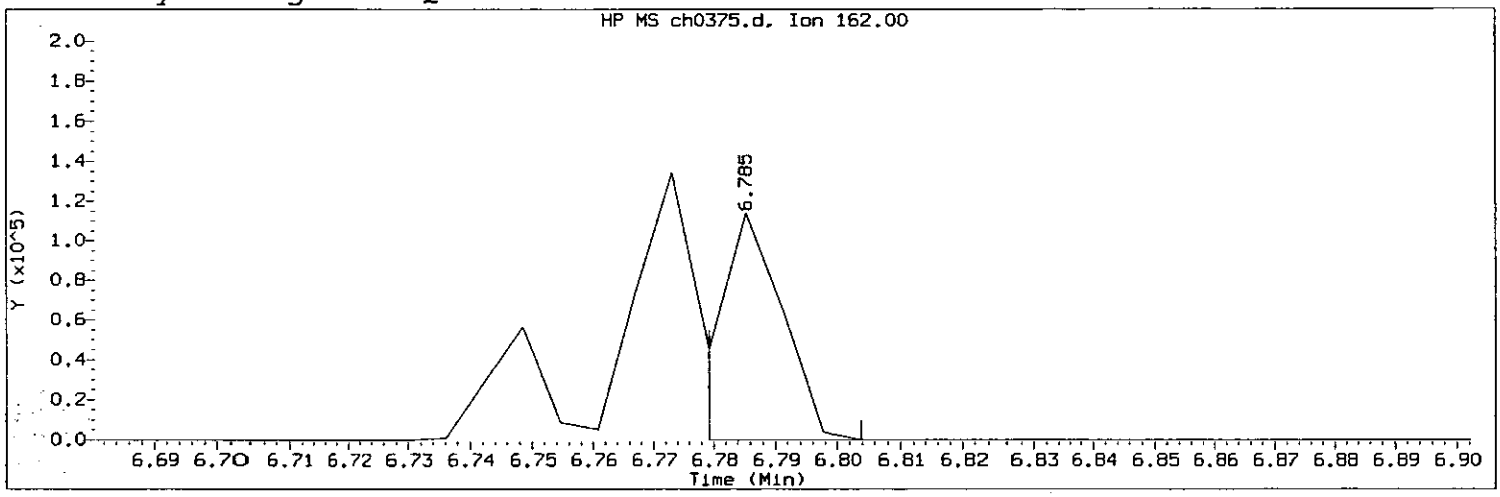
8435

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 879
Retention Time (minutes): 6.785
Quant Ion : 162
Area (flag) : 83227 M
Concentration (ng/ul) : 14.1244
Integration start scan : 877 Integration stop scan: 881
Y at integration start : -101 Y at integration end: -101

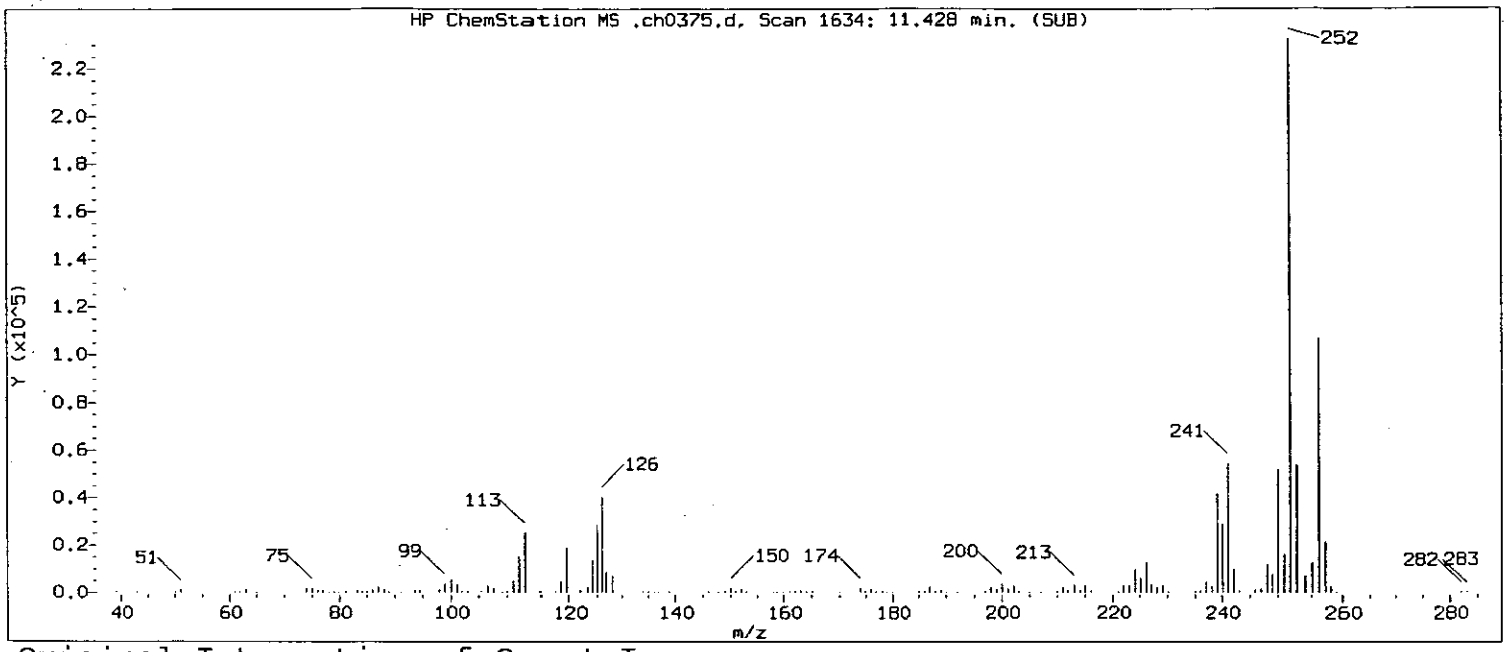
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac 8/14/07

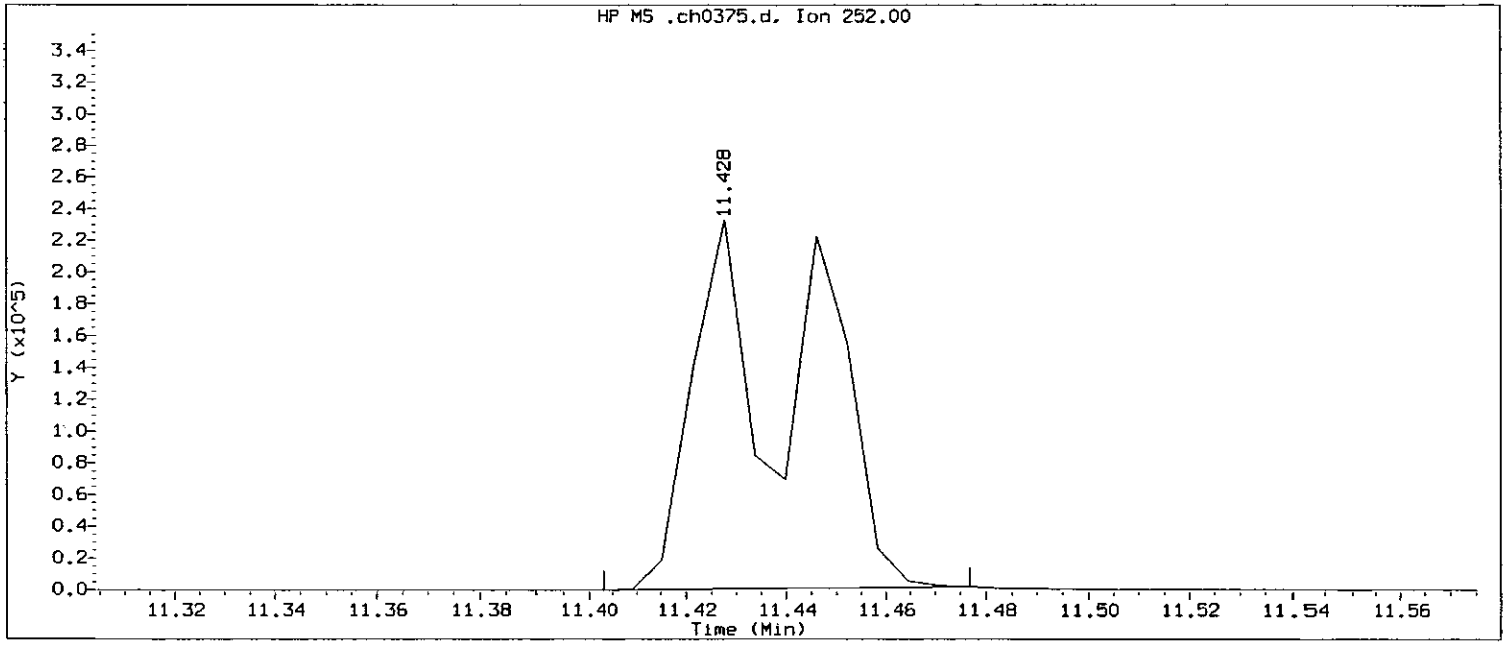
GC/MS audit/management approval: 8436 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:39

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

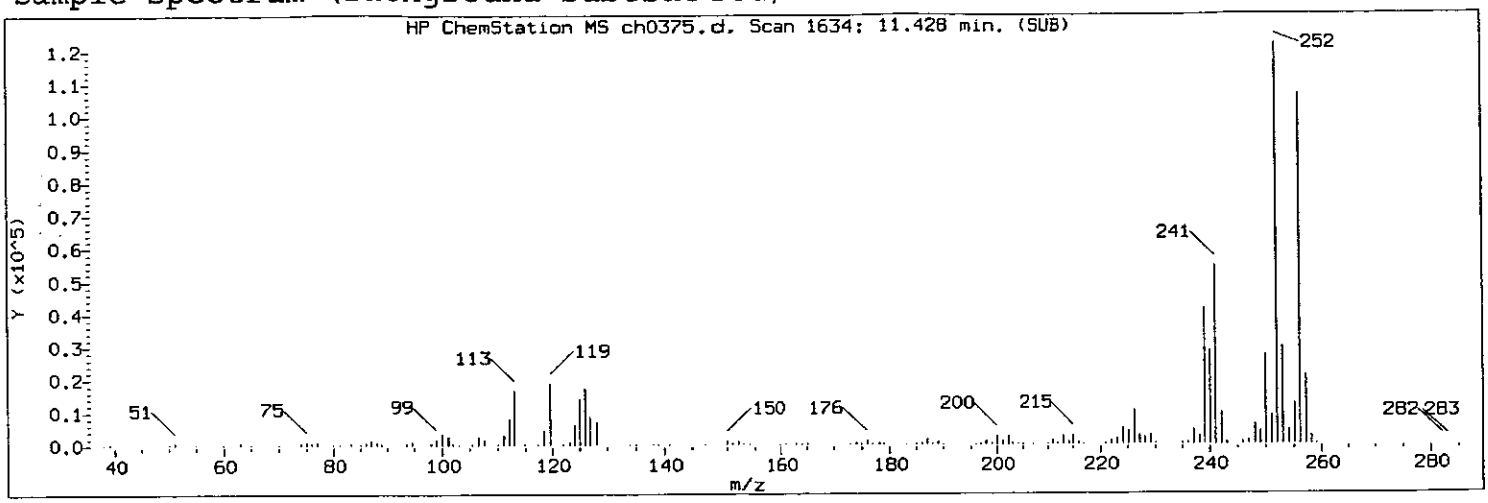
Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1634
Retention Time (minutes)	:	11.428
Quant Ion	:	252
Area	:	351341
Concentration (ng/ul)	:	23.1205
Integration start scan	:	1629 Integration stop scan: 1641
Y at integration start	:	0 Y at integration end: 1939

mac (13) 8/14/07

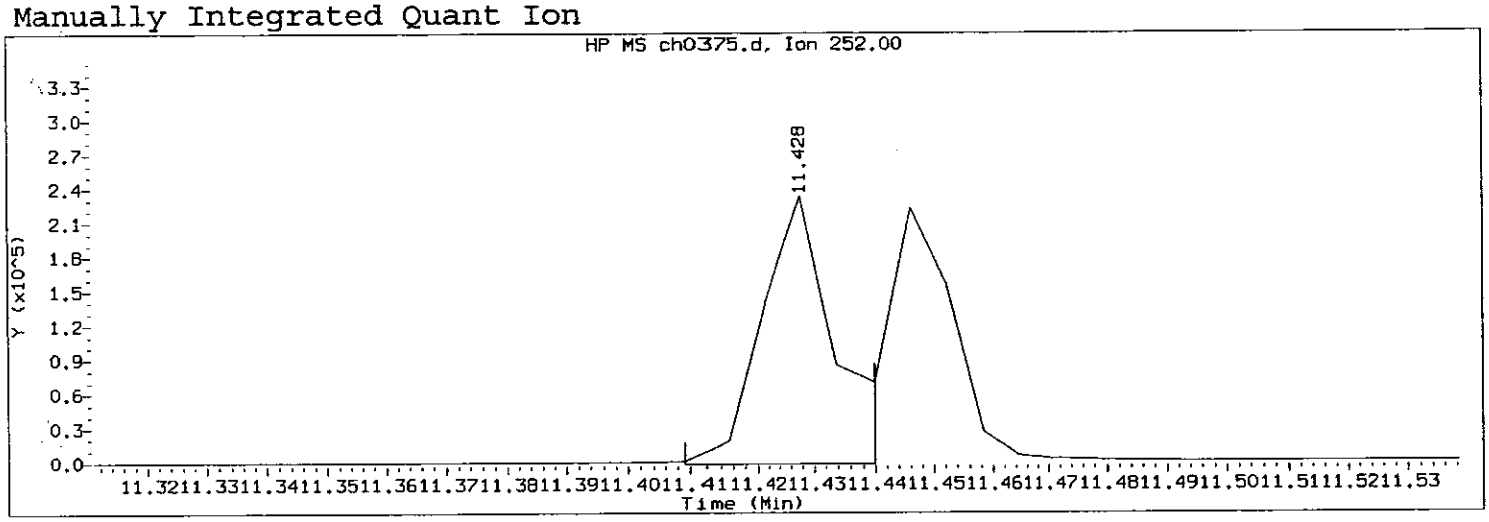
0437

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number	: 158	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1634	
Retention Time (minutes)	: 11.428	
Quant Ion	: 252	
Area (flag)	: 206793	M
Concentration (ng/ul)	: 15.5850	
Integration start scan	: 1630	Integration stop scan: 1635
Y at integration start	: -1803	Y at integration end: -1803

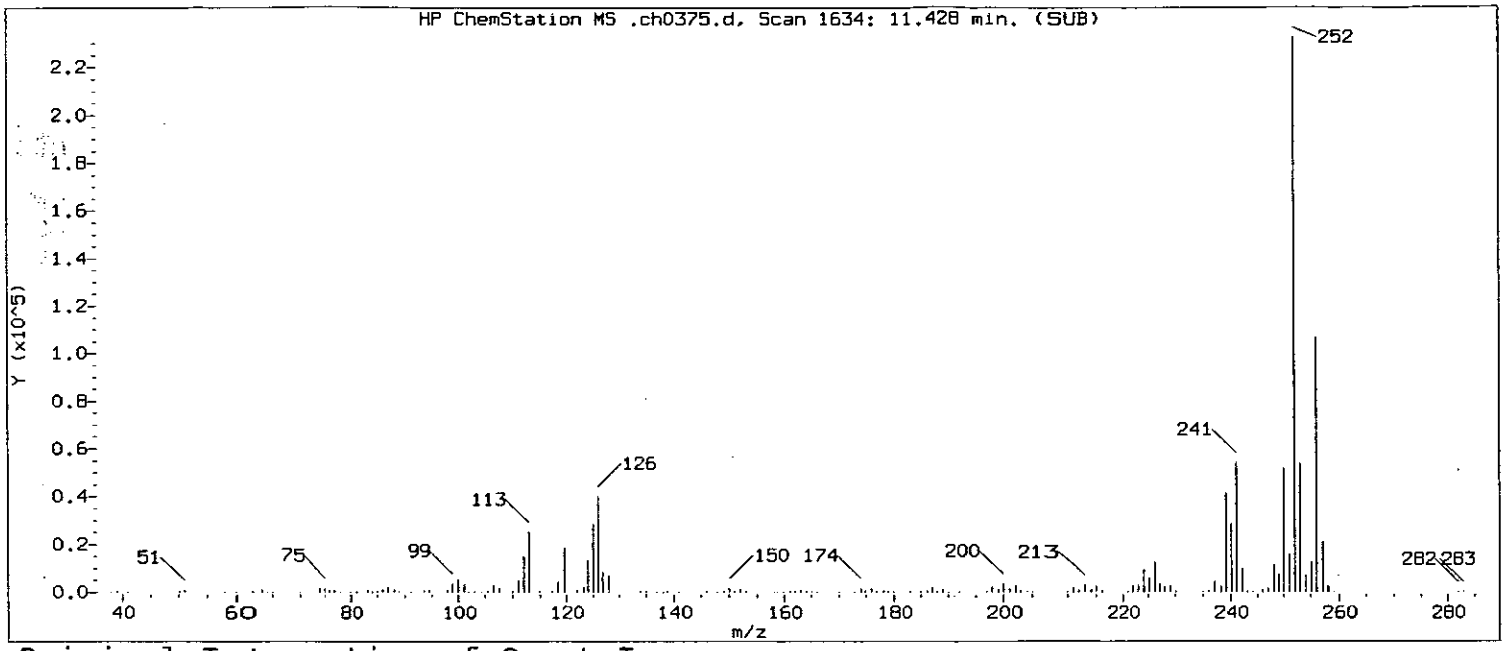
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac(13) 8/14/07

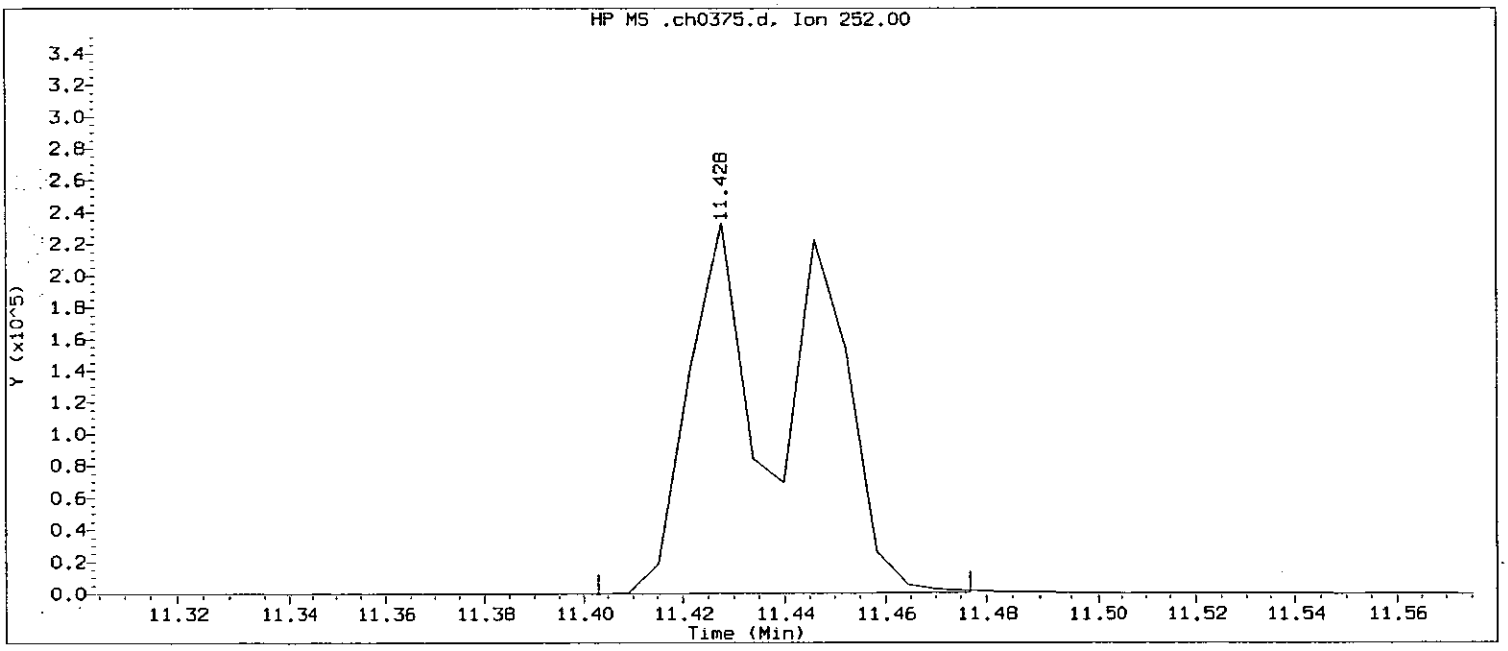
GC/MS audit/management approval: 0438 [illegible] 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:39

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:34 mac00013

Sample Name: SSTD015 Lab Sample ID: STD2187

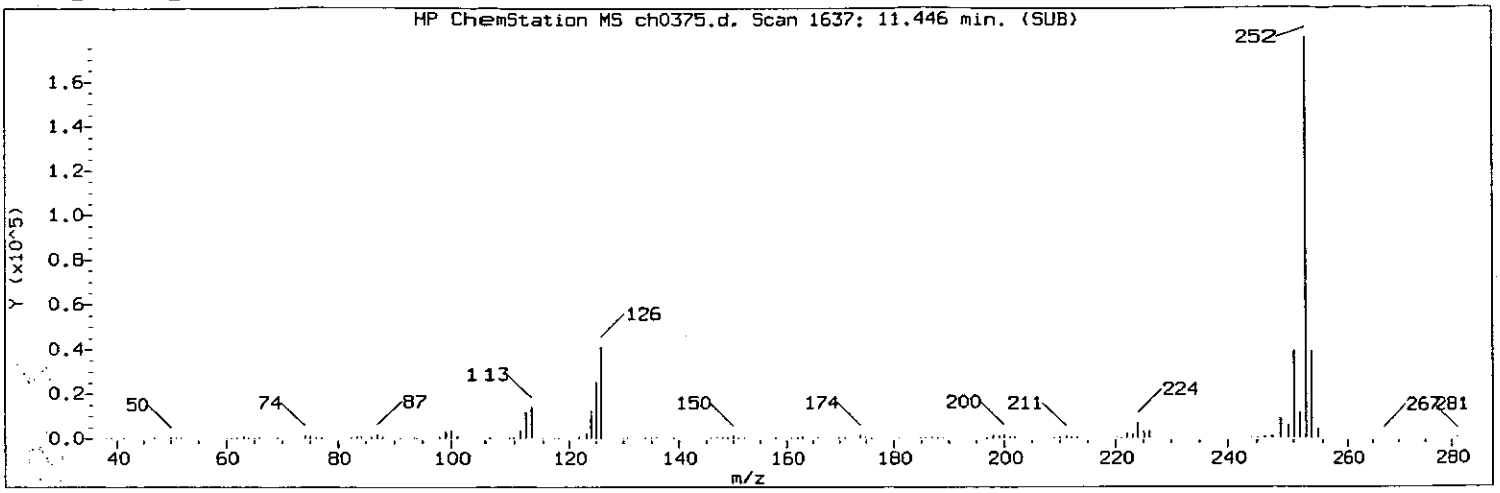
Compound Number	:	159
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1634
Retention Time (minutes)	:	11.428
Quant Ion	:	252
Area	:	353782
Concentration (ng/ul)	:	22.8899
Integration start scan	:	1629 Integration stop scan: 1641
Y at integration start	:	0 Y at integration end: 831

mc (3) 8/14/07

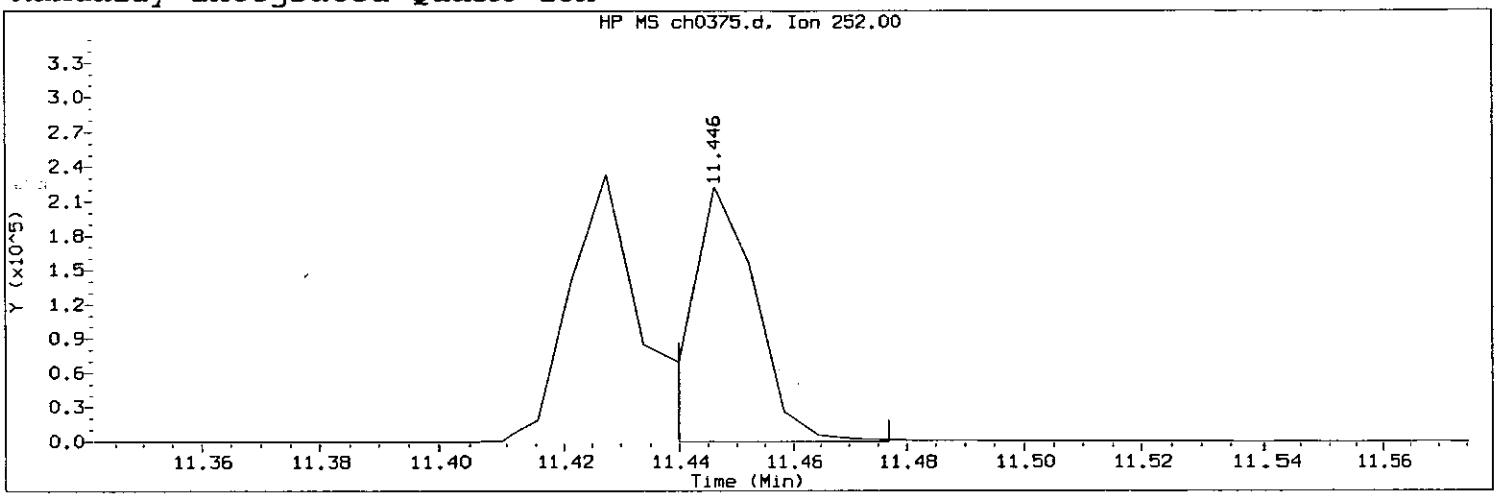
8439

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0375.d, generated on 08/14/2007 at 03:40

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0375.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:17 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:34
Date, time and analyst ID of latest file update: 14-Aug-2007 03:39 mac00013

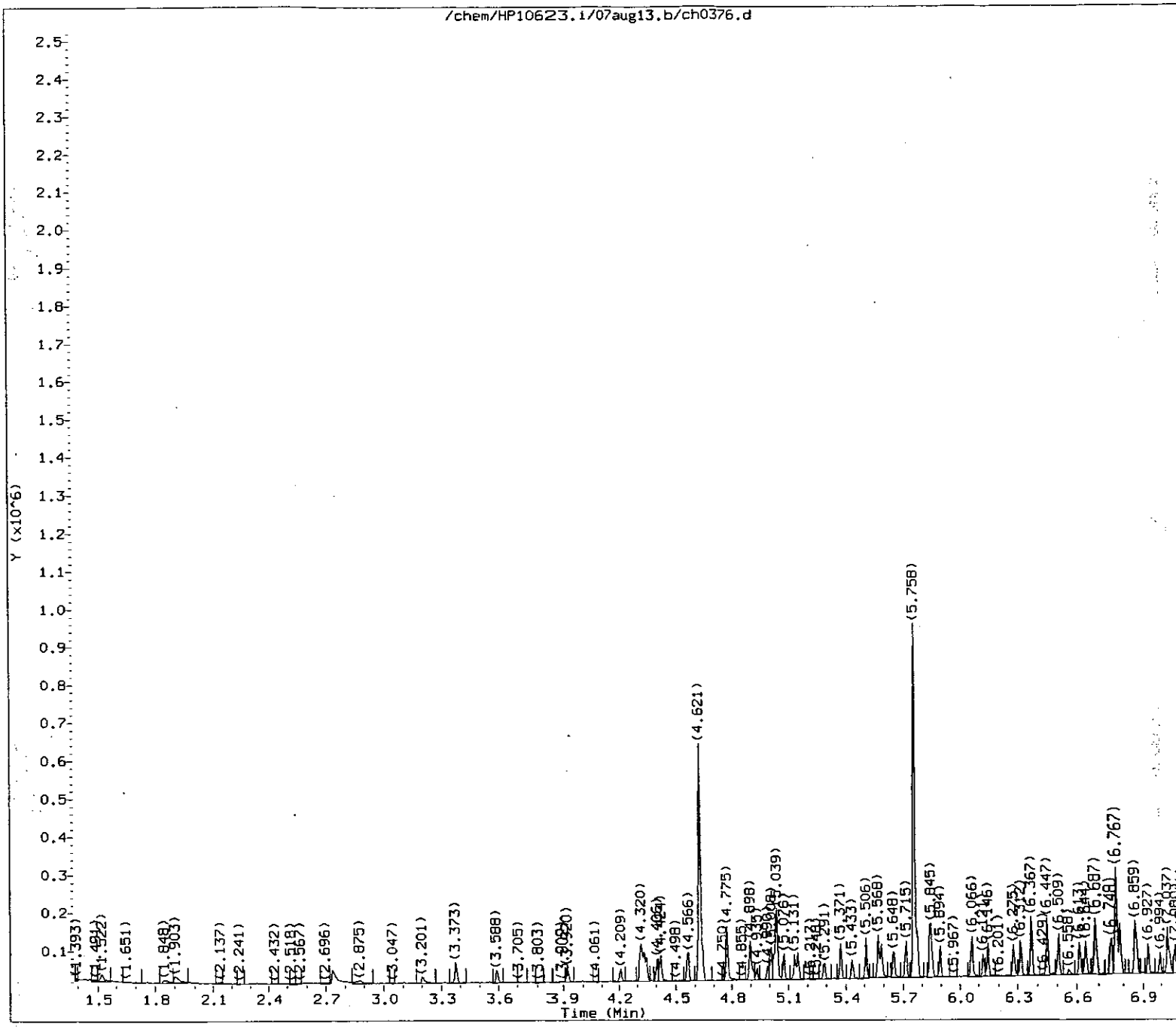
Sample Name: SSTD015 Lab Sample ID: STD2187

Compound Number	:	159
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1637
Retention Time (minutes)	:	11.446
Quant Ion	:	252
Area (flag)	:	178279 M
Concentration (ng/ul)	:	13.5928
Integration start scan	:	1635 Integration stop scan: 1641
Y at integration start	:	219 Y at integration end: 219

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(3) 8/14/07

GC/MS audit/management approval: 0448 fm 753 08/14/07



Quant Report

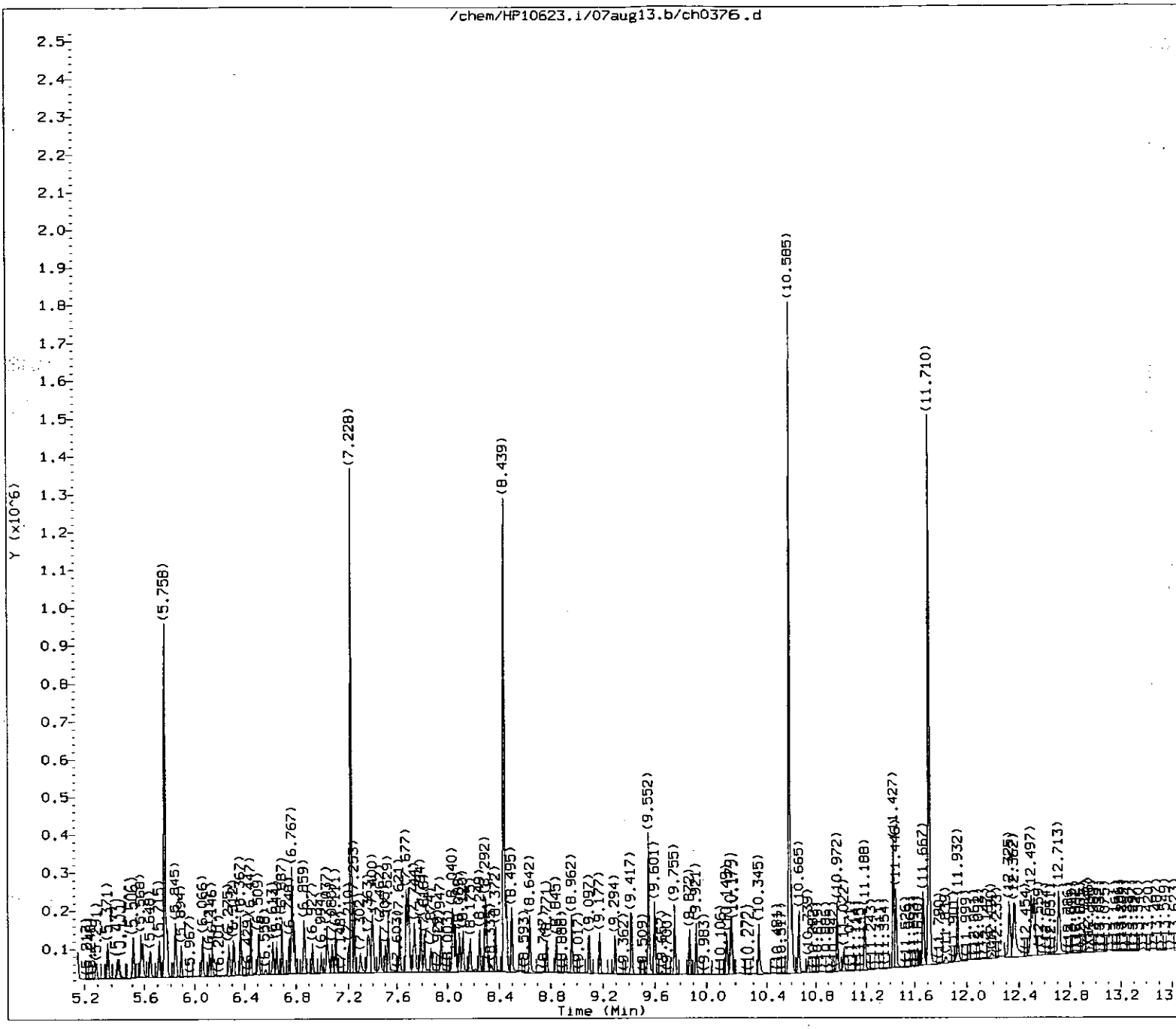
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

mac 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0376.d
Injection date and time: 14-AUG-2007 02:38

Instrument ID: HP10623.i
Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m
Calibration date and time: 14-AUG-2007 03:41

Sublist used: all1

Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005

Lab Sample ID: STD2187

mc 8442 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.522	88	6604	5.2393
2) N-Nitrosodimethylamine	(1)	1.848	74	9803M	5.1994
3) Pyridine	(1)	1.903	79	18056M	5.0157
5) 2-Picoline	(1)	2.739	93	18655	5.4050
15) Phenol	(1)	4.338	94	21142M	5.0270
16) Aniline	(1)	4.320	93	26413	4.9467
18) bis(2-Chloroethyl)ether	(1)	4.406	93	15622	4.9873
19) 2-Chlorophenol	(1)	4.424	128	15152	4.8640
20) 1,3-Dichlorobenzene	(1)	4.566	146	17172	5.2922
21) 1,4-Dichlorobenzene-d4	(1)	4.621	152	80639	40.0000
22) 1,4-Dichlorobenzene	(1)	4.639	146	16308	4.9379
23) Benzyl alcohol	(1)	4.775	108	10930	4.9544
24) 1,2-Dichlorobenzene	(1)	4.769	146	15678	5.0324
25) 2-Methylphenol	(1)	4.898	108	14440	4.7105
26) 2,2'-oxybis(1-Chloropropane)	(1)	4.904	45	16150M	5.1535
27) bis(2-Chloroisopropyl)ether	(1)	4.904	45	16150M	5.1535
29) Acetophenone	(1)	5.008	105	22548	5.0933
30) N-Nitroso-di-n-propylamine	(1)	5.021	70	10871	4.8778
31) 4-Methylphenol	(1)	5.039	108	18004	5.1190
33) o-Toluidine	(1)	5.033	106	26061	5.1185
34) Hexachloroethane	(1)	5.076	117	5643	5.0272
36) Nitrobenzene	(2)	5.150	77	17344	5.2765
38) Isophorone	(2)	5.371	82	29890	4.9092
39) 2-Nitrophenol	(2)	5.433	139	7649	4.8171
40) 2,4-Dimethylphenol	(2)	5.506	107	15235	4.9061
42) bis(2-Chloroethoxy)methane	(2)	5.586	93	15723M	4.9613
43) Benzoic acid	(2)	5.580	105	15321	9.1973
44) 2,4-Dichlorophenol	(2)	5.654	162	12126	4.8016
45) 1,2,4-Trichlorobenzene	(2)	5.715	180	12985	5.1294
46) Naphthalene-d8	(2)	5.758	136	346759	40.0000
47) Naphthalene	(2)	5.777	128	46426	5.0126
48) 4-Chloroaniline	(2)	5.838	127	20088	5.0389
49) 2,6-Dichlorophenol	(2)	5.845	162	12421	5.0480
51) Hexachlorobutadiene	(2)	5.894	225	5972	5.1321
52) Quinoline	(2)	6.066	129	30976	4.9011
53) Caprolactam	(2)	6.121	113	5576	4.8592
55) 4-Chloro-3-methylphenol	(2)	6.275	107	13232	4.7877
58) 2-Methylnaphthalene	(2)	6.367	142	31348	5.0098
60) 1-Methylnaphthalene	(2)	6.447	142	30430	5.0555
61) Hexachlorocyclopentadiene	(3)	6.502	237	1688	2.5149
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	11721	5.0431
64) 2,4,6-Trichlorophenol	(3)	6.613	196	8858	5.1420
65) 2,4,5-Trichlorophenol	(3)	6.644	196	9684	4.8430

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.767	154	38469	5.2083
69) Diphenyl	(3)	6.767	154	38469	5.2083
70) 1,1'-Biphenyl	(3)	6.767	154	38469	5.2083
71) 2-Chloronaphthalene	(3)	6.773	162	35782M	5.0565
72) 1-Chloronaphthalene	(3)	6.785	162	30271M	4.9973
73) Diphenyl ether	(3)	6.859	170	19822	5.0762
74) 2-Nitroaniline	(3)	6.865	138	10605	4.8557
77) Dimethylphthalate	(3)	7.037	163	33866	5.1150
79) 2,6-Dinitrotoluene	(3)	7.080	165	7158	4.5536
80) Acenaphthylene	(3)	7.111	152	42922	5.0108
81) 3-Nitroaniline	(3)	7.210	138	9230	4.8118
82) Acenaphthene-d10	(3)	7.228	164	207521	40.0000
83) Acenaphthene	(3)	7.253	153	28970	4.9639
84) 2,4-Dinitrophenol	(3)	7.302	184	6816	10.3469
85) Pentachlorobenzene	(3)	7.363	250	10684	4.9531
86) 4-Nitrophenol	(3)	7.376	109	9597	9.1600
87) Dibenzofuran	(3)	7.400	168	44200	5.2077
88) 2,4-Dinitrotoluene	(3)	7.406	165	9774	4.6813
90) 1-Naphthylamine	(3)	7.462	143	33017	4.9761
91) 2,3,4,6-Tetrachlorophenol	(3)	7.505	232	6437	4.6359
92) 2-Naphthylamine	(3)	7.529	143	35470	5.0973
93) Diethylphthalate	(3)	7.621	149	33448	4.9988
94) Fluorene	(3)	7.677	166	33683	4.9147
96) 4-Chlorophenyl-phenylether	(3)	7.695	204	15422	5.2220
98) 4-Nitroaniline	(3)	7.701	138	10008	4.7327
99) 4,6-Dinitro-2-methylphenol	(4)	7.732	198	7555	7.4473
102) N-Nitrosodiphenylamine	(4)	7.794	169	24742	4.8259
103) 1,2-Diphenylhydrazine	(4)	7.818	77	32405	4.8199
108) Phorate	(4)	8.046	75	24350M	4.4418
110) 4-Bromophenyl-phenylether	(4)	8.089	248	8477	4.7925
112) Hexachlorobenzene	(4)	8.120	284	10803	5.1194
116) Pentachlorophenol	(4)	8.292	266	13418	12.0138
120) Phenanthrene-d10	(4)	8.439	188	393953	40.0000
121) Phenanthrene	(4)	8.458	178	52956	5.0751
122) Dinoseb	(4)	8.458	211	3187	2.7082
124) Anthracene	(4)	8.495	178	53164	4.8991
125) Carbazole	(4)	8.642	167	48800	4.7679
126) Methyl parathion	(4)	8.771	109	9203	4.2573
127) Ronnel	(4)	8.845	285	12847	4.9878
128) Di-n-butylphthalate	(4)	8.962	149	56898	4.7911
129) Parathion	(4)	9.097	109	6070	4.3497
134) Fluoranthene	(4)	9.423	202	57257	4.8955
135) Benzidine	(5)	9.552	184	111804	13.7498

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

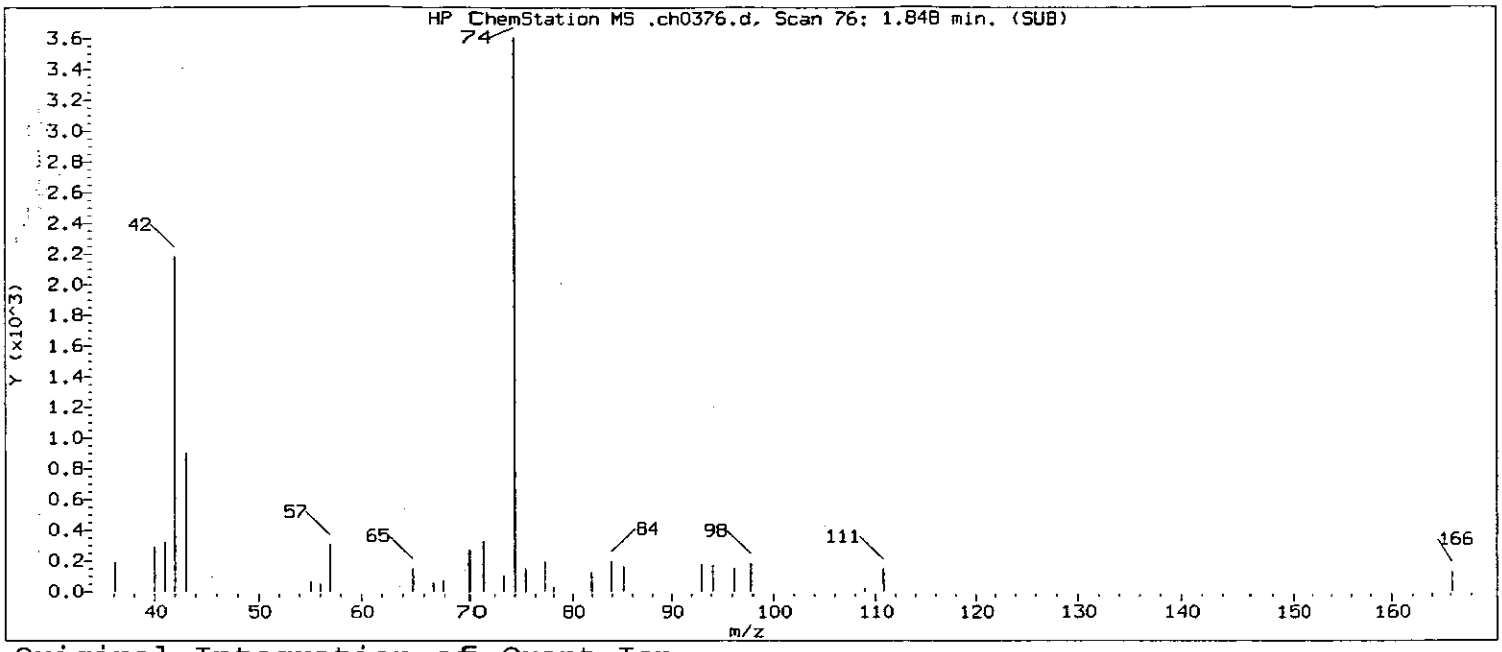
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

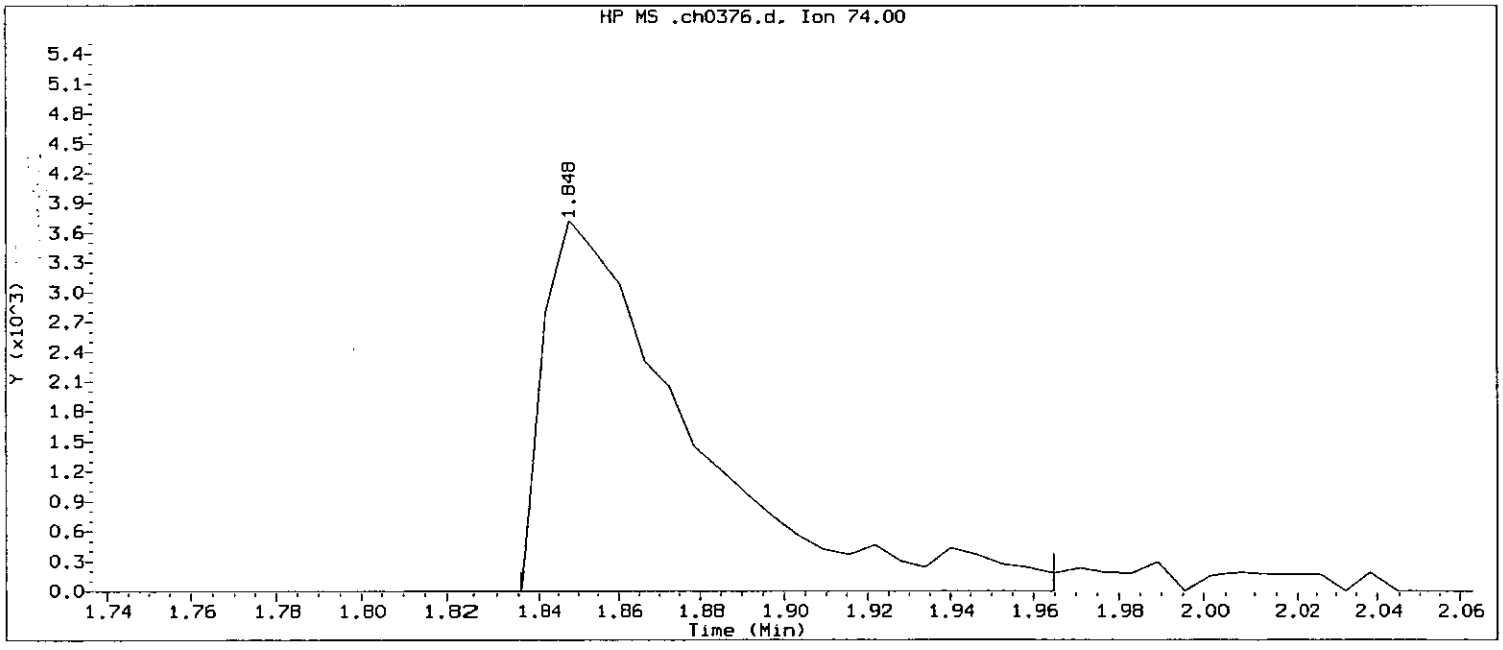
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.601	202	59484	4.6592
143) Butylbenzylphthalate	(5)	10.179	149	27006	4.3810
145) 3,3'-Dichlorobenzidine	(5)	10.579	252	22948	4.7157
146) Benzo(a)anthracene	(5)	10.579	228	56920	4.9125
147) Hexabromobenzene	(5)	10.585	552	463M	4.4660
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.585	231	11189	4.7716
149) Chrysene-d12	(5)	10.585	240	408933	40.0000
150) Chrysene	(5)	10.604	228	56666	4.8264
151) bis(2-Ethylhexyl)phthalate	(5)	10.665	149	38651	4.4875
152) 6-Methylchrysene	(5)	10.972	242	42452	4.6432
156) Di-n-octylphthalate	(6)	11.188	149	65006	4.4485
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.427	256	30685	4.8565
158) Benzo(b)fluoranthene	(6)	11.427	252	61928	4.4625
159) Benzo(k)fluoranthene	(6)	11.446	252	70749	5.0409
160) Benzo(a)pyrene	(6)	11.667	252	64285	4.9928
161) Perylene-d12	(6)	11.710	264	398242	40.0000
162) 3-Methylcholanthrene	(6)	11.932	268	35274	4.8241
166) Dibenz(a,h)acridine	(6)	12.325	279	54152	4.7187
167) Dibenz(a,j)acridine	(6)	12.362	279	56165	4.7893
168) Indeno(1,2,3-cd)pyrene	(6)	12.497	276	78964	4.8662
169) Dibenz(a,h)anthracene	(6)	12.522	278	62628	4.8545
170) Benzo(g,h,i)perylene	(6)	12.713	276	67958	4.9293
9) 2-Fluorophenol	(1)	3.373	112	14530	4.8429
13) Phenol-d5	(1)	4.326	99	18731	4.7906
14) Phenol-d6	(1)	4.326	99	18731	4.7906
35) Nitrobenzene-d5	(2)	5.131	82	16086	5.1490
66) 2-Fluorobiphenyl	(3)	6.687	172	31160	4.9571
104) 2,4,6-Tribromophenol	(3)	7.874	330	4675	4.4548
138) Terphenyl-d14	(5)	9.755	244	39170	4.6429

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

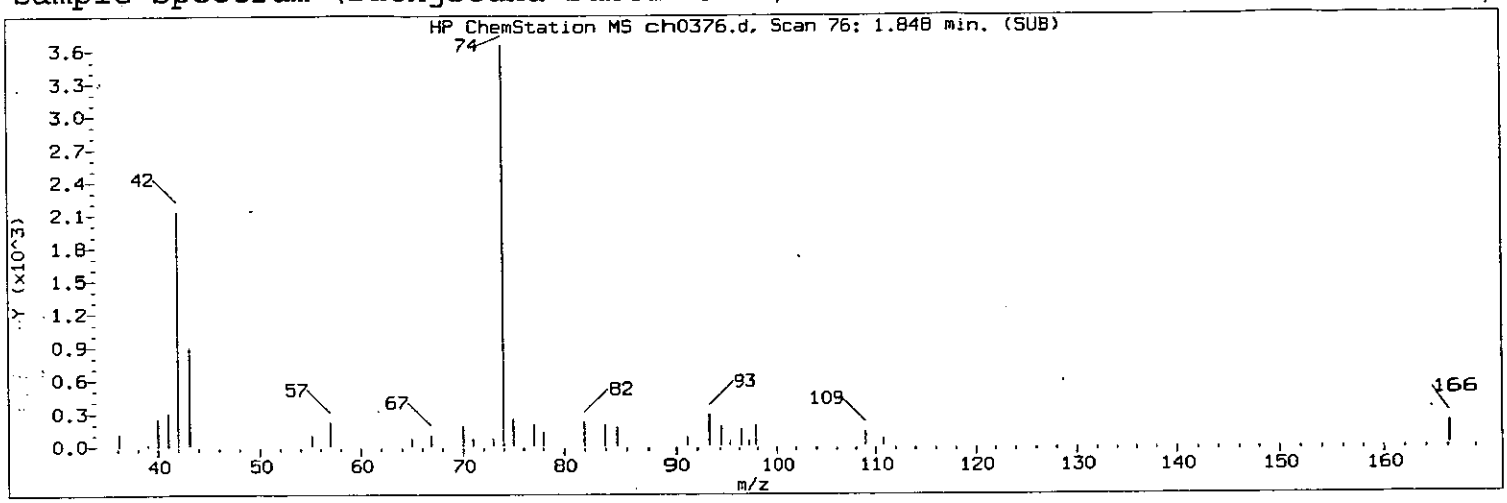
Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 76
Retention Time (minutes): 1.848
Quant Ion : 74
Area : 9440
Concentration (ng/ul) : 5.0390
Integration start scan : 73 Integration stop scan: 94
Y at integration start : 0 Y at integration end: 0

mac 13 8/14/07

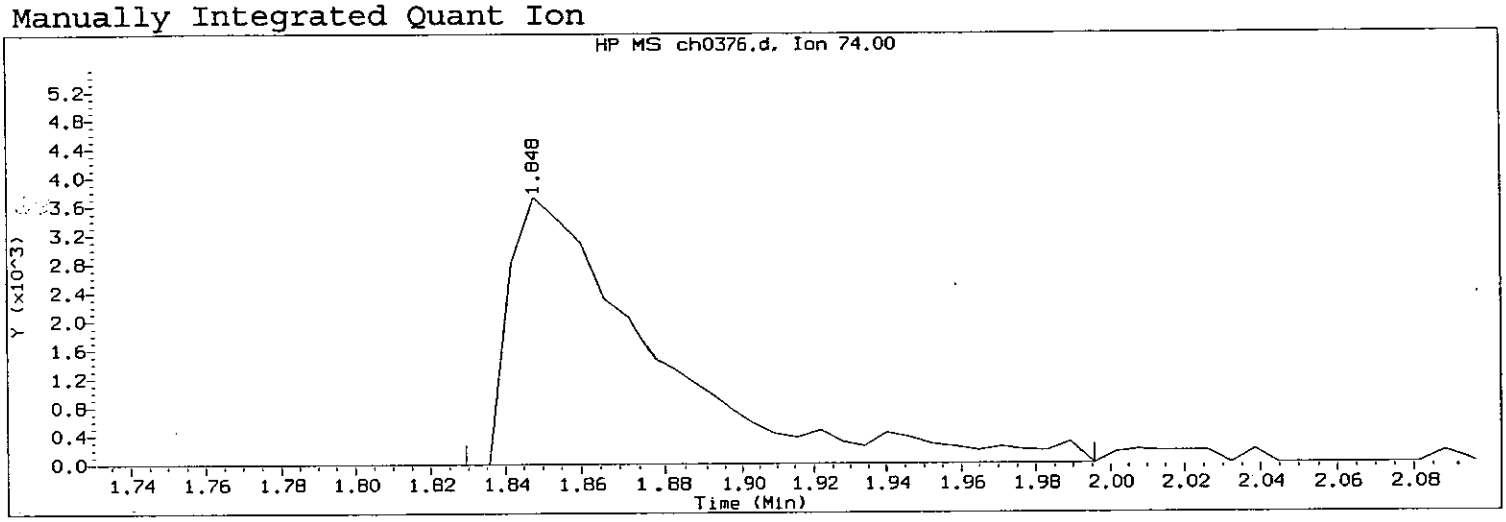
8446

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 76
Retention Time (minutes): 1.848
Quant Ion : 74
Area (flag) : 9803 M
Concentration (ng/ul) : 5.1994
Integration start scan : 72 Integration stop scan: 99
Y at integration start : 0 Y at integration end: 0

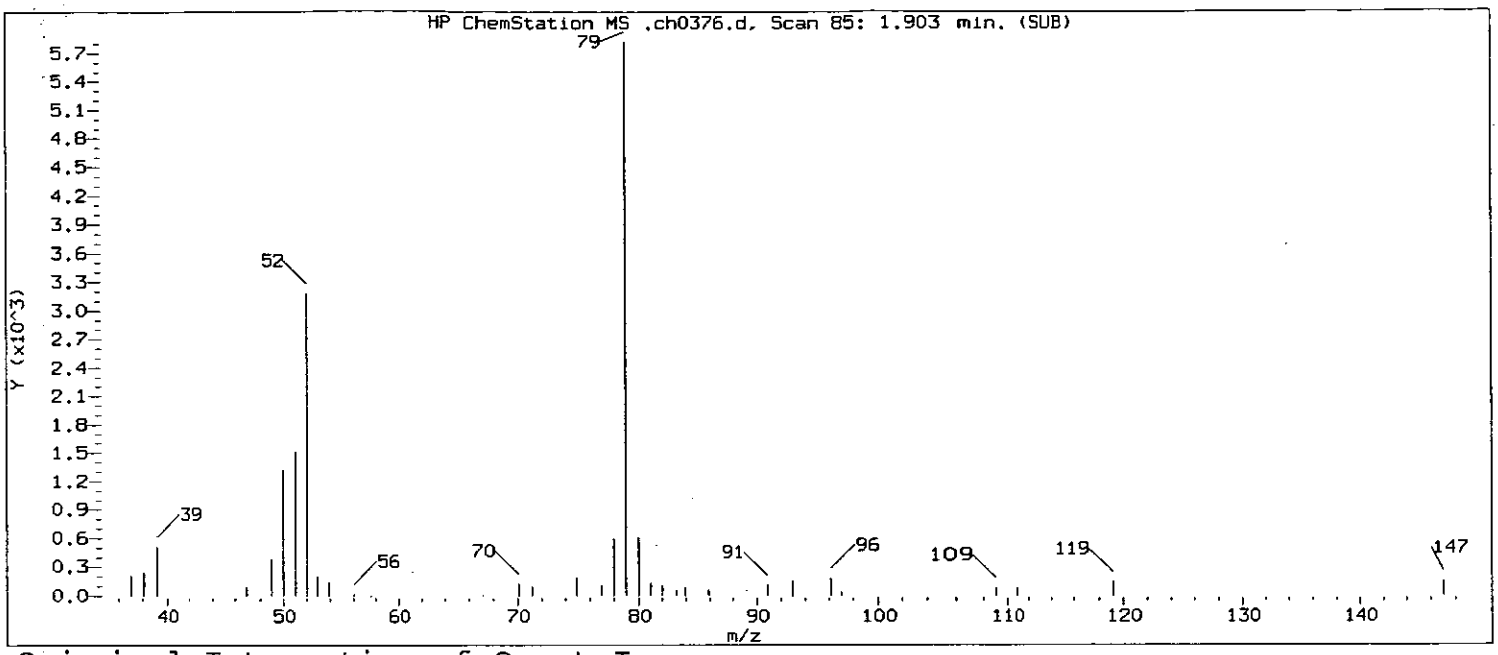
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(13) 8/14/07

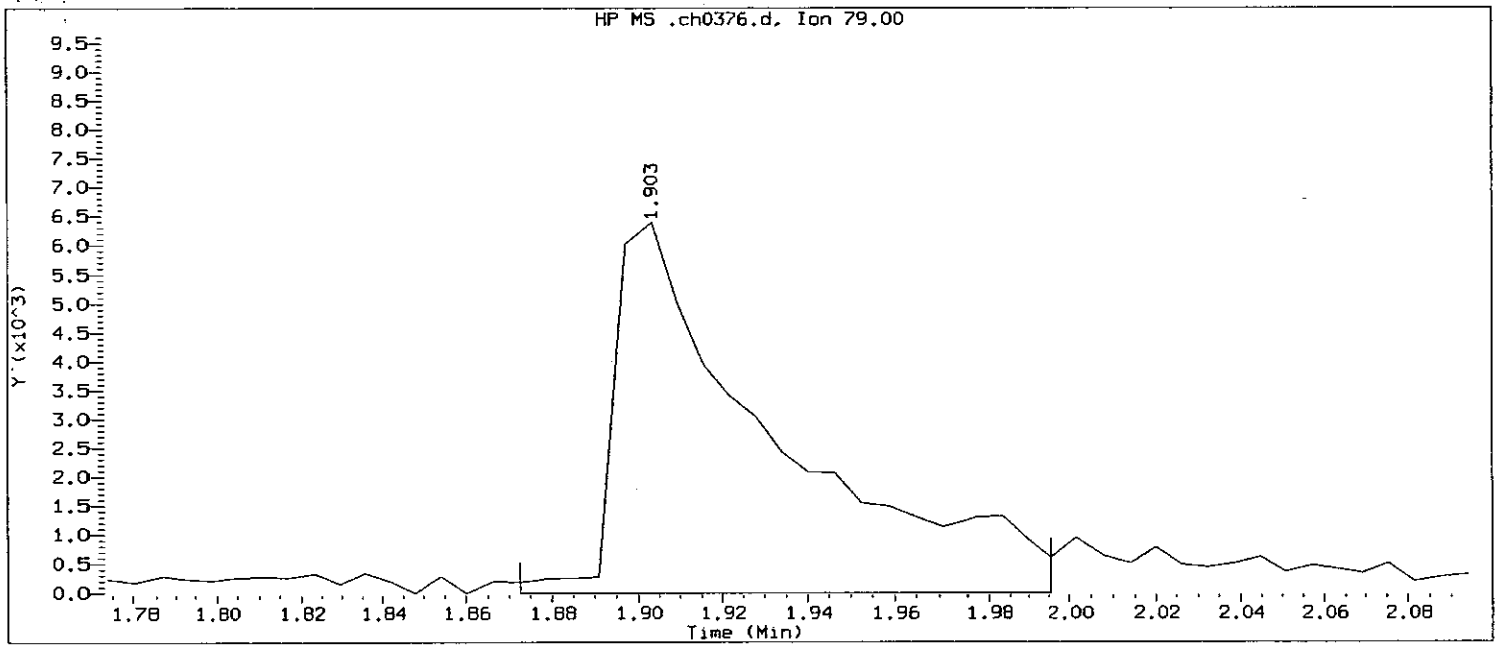
GC/MS audit/management approval: 8447 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

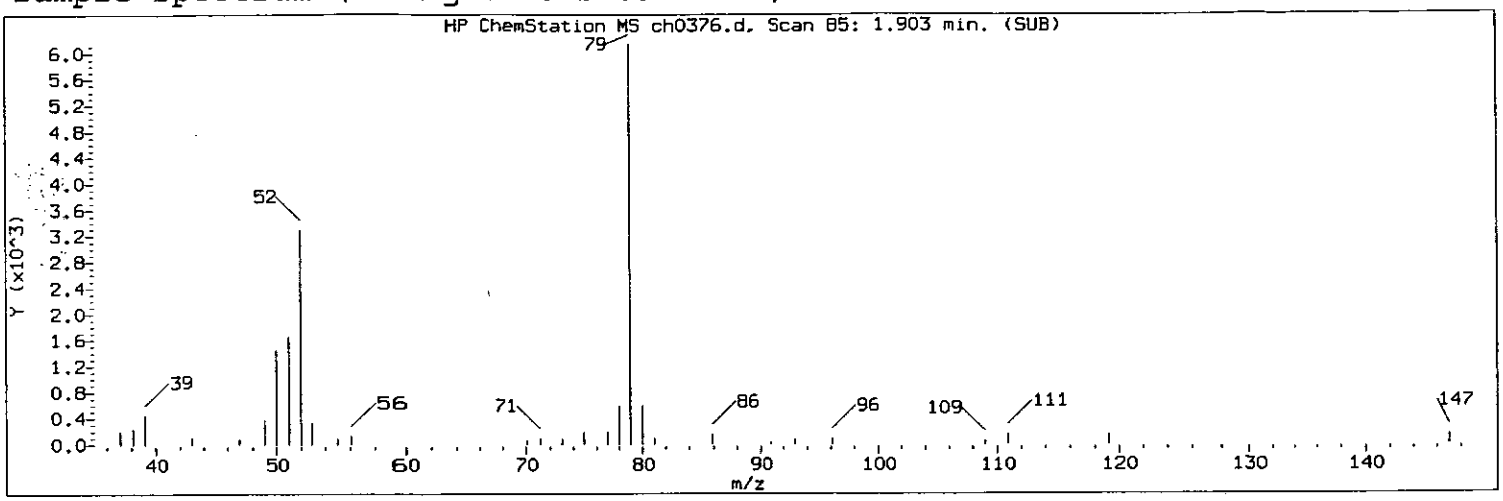
Compound Number : 3
Compound Name : Pyridine
Scan Number : 85
Retention Time (minutes): 1.903
Quant Ion : 79
Area : 16513
Concentration (ng/ul) : 4.6535
Integration start scan : 79 Integration stop scan: 99
Y at integration start : 0 Y at integration end: 0

mrc (13) 8/14/07

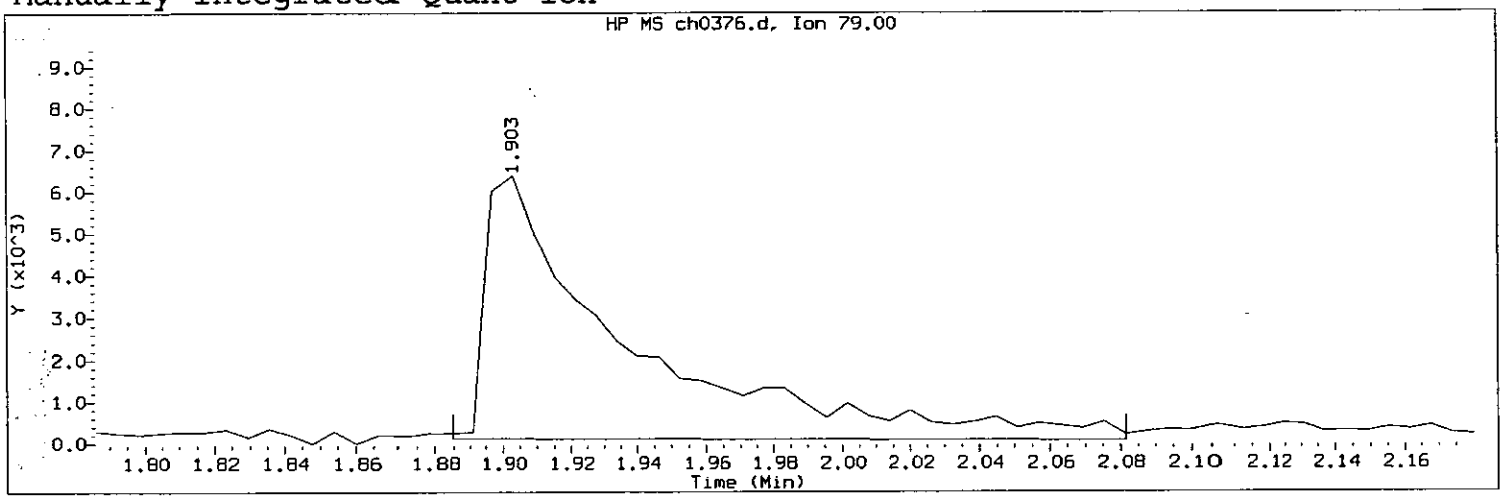
8448

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 3
Compound Name : Pyridine
Scan Number : 85
Retention Time (minutes): 1.903
Quant Ion : 79
Area (flag) : 18056 M
Concentration (ng/ul) : 5.0157
Integration start scan : 81 Integration stop scan: 113
Y at integration start : 124 Y at integration end: 62

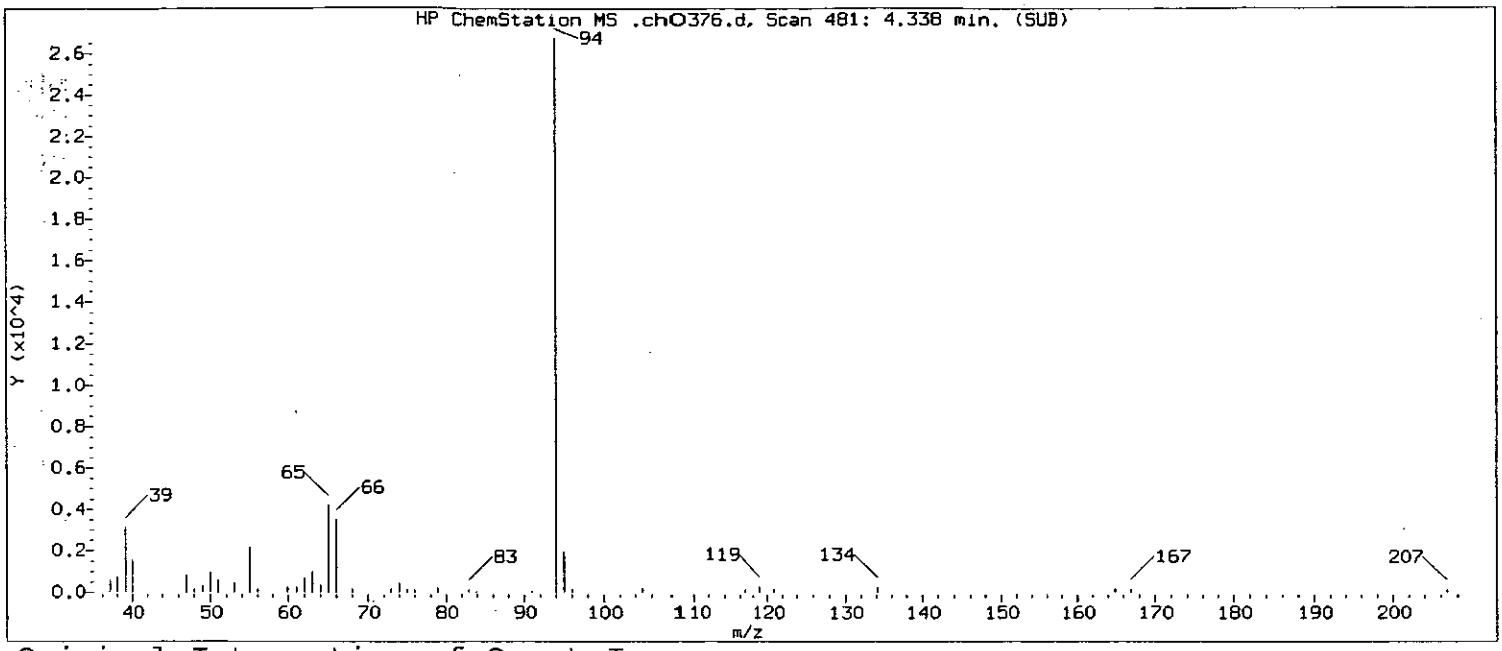
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac 8/14/07

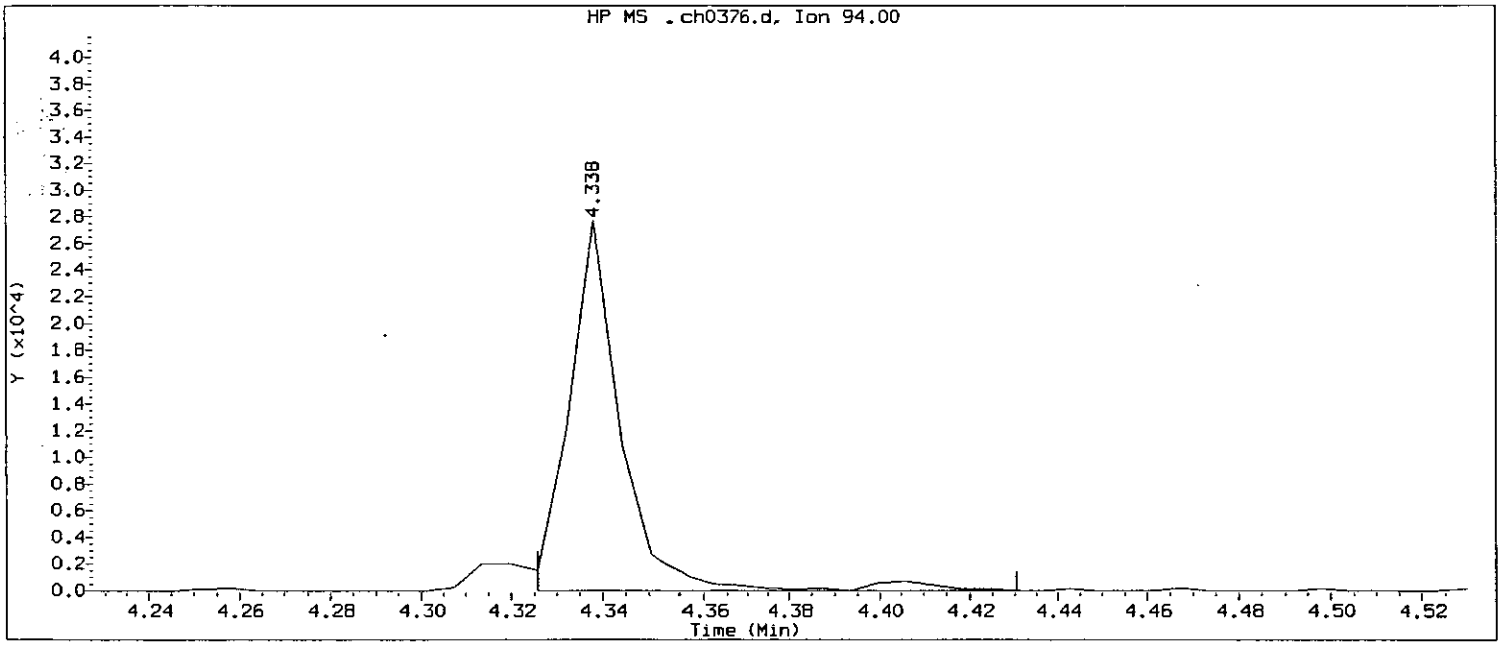
GC/MS audit/management approval: 8449 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

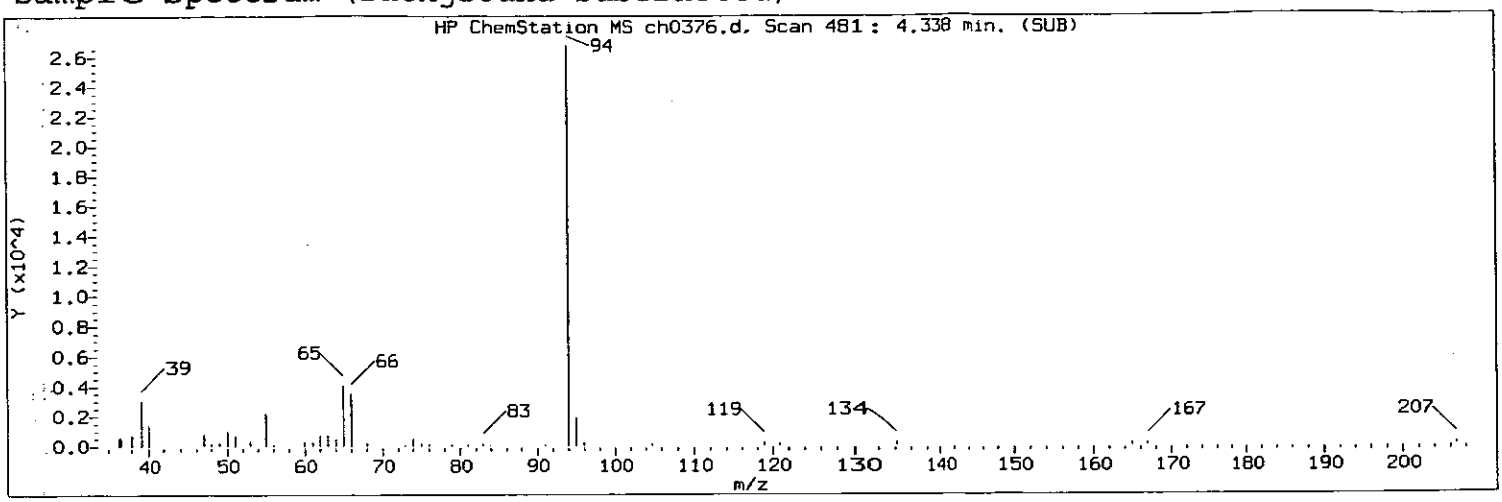
Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number	: 15
Compound Name	: Phenol
Scan Number	: 481
Retention Time (minutes)	: 4.338
Quant Ion	: 94
Area	: 21624
Concentration (ng/ul)	: 5.1220
Integration start scan	: 478
Integration stop scan	: 495
Y at integration start	: 0
Y at integration end	: 0

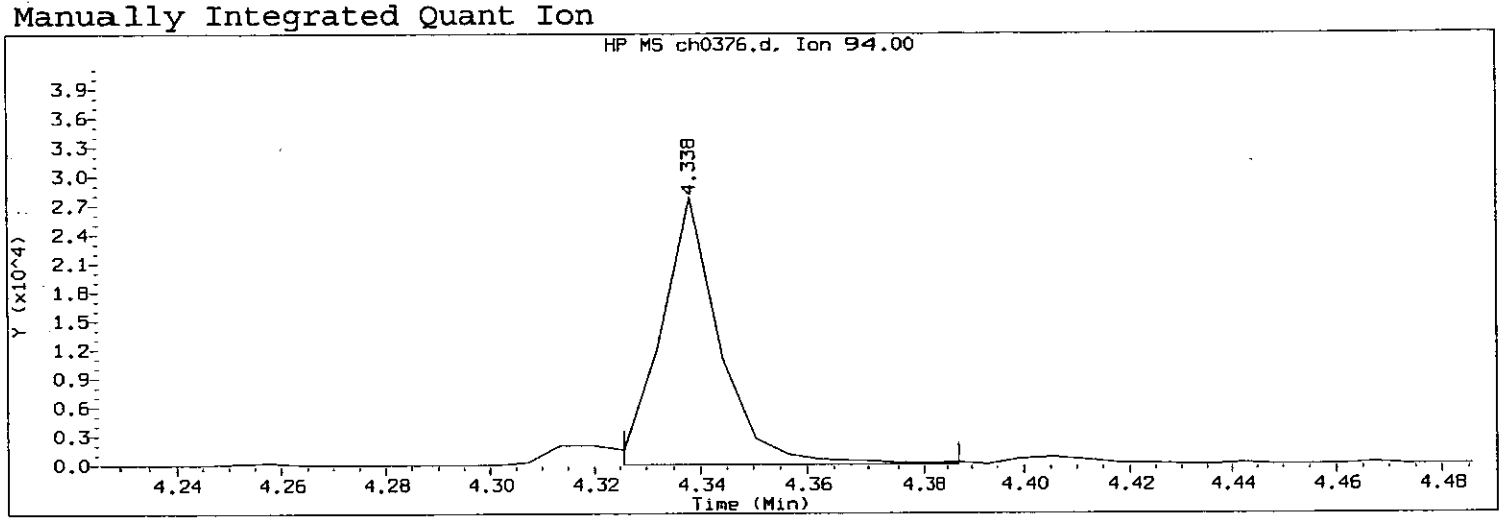
mac (13) 8/14/07
8450

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

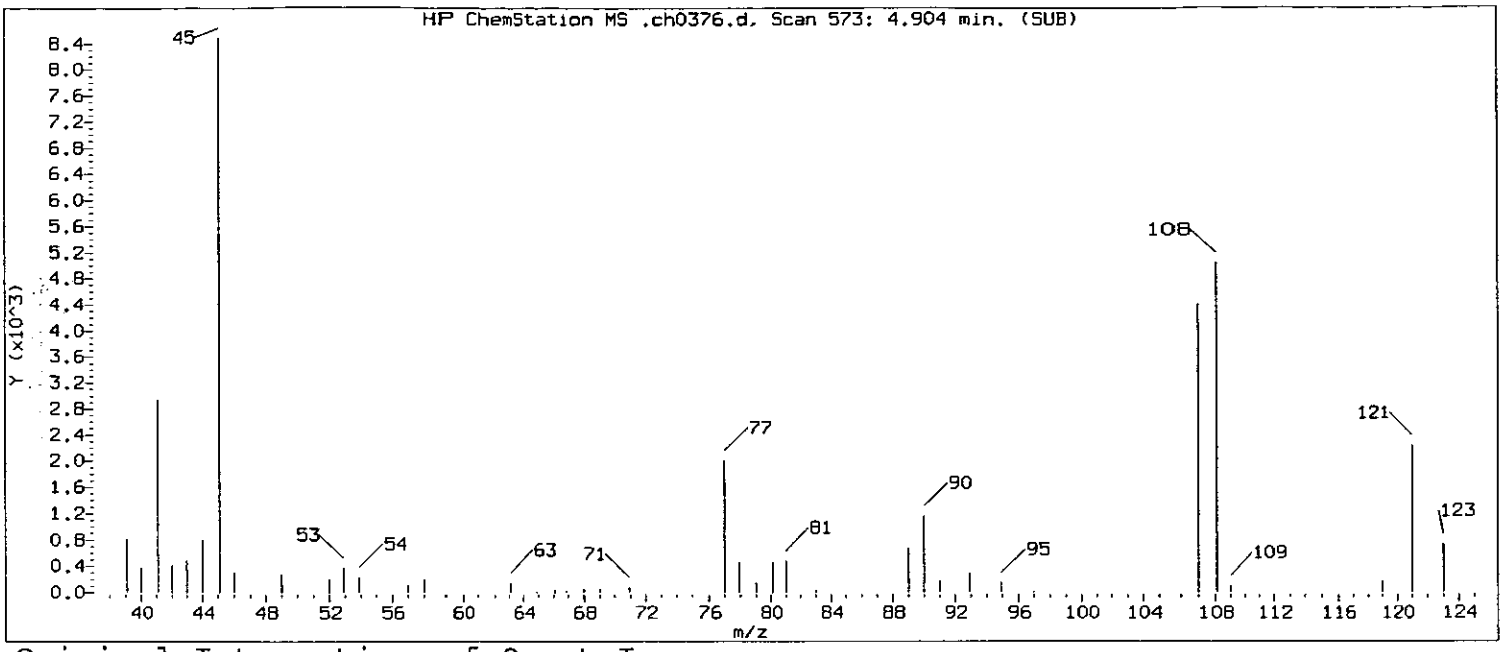
Compound Number	:	15
Compound Name	:	Phenol
Scan Number	:	481
Retention Time (minutes)	:	4.338
Quant Ion	:	94
Area (flag)	:	21142 M
Concentration (ng/ul)	:	5.0270
Integration start scan	:	478 Integration stop scan: 488
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

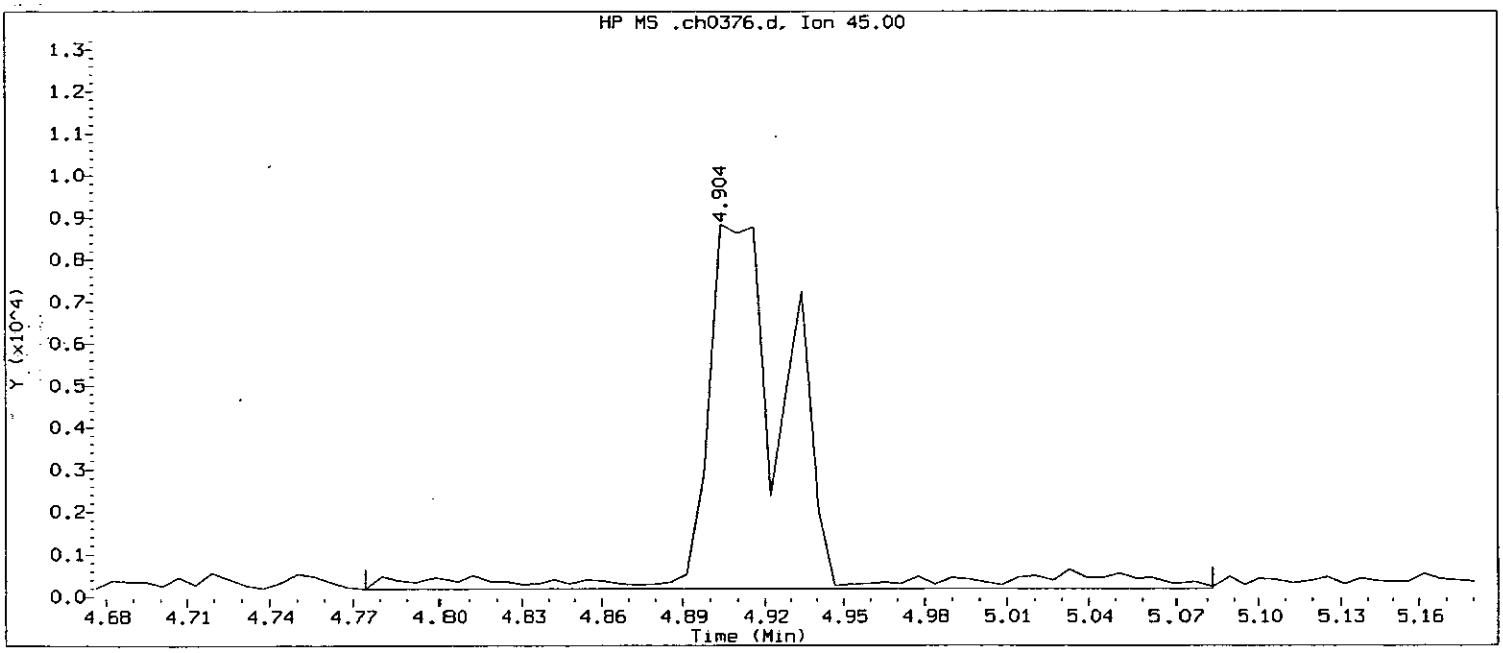
Analyst responsible for change: mac (3) 8/14/07

GC/MS audit/management approval: 8451 km 3 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

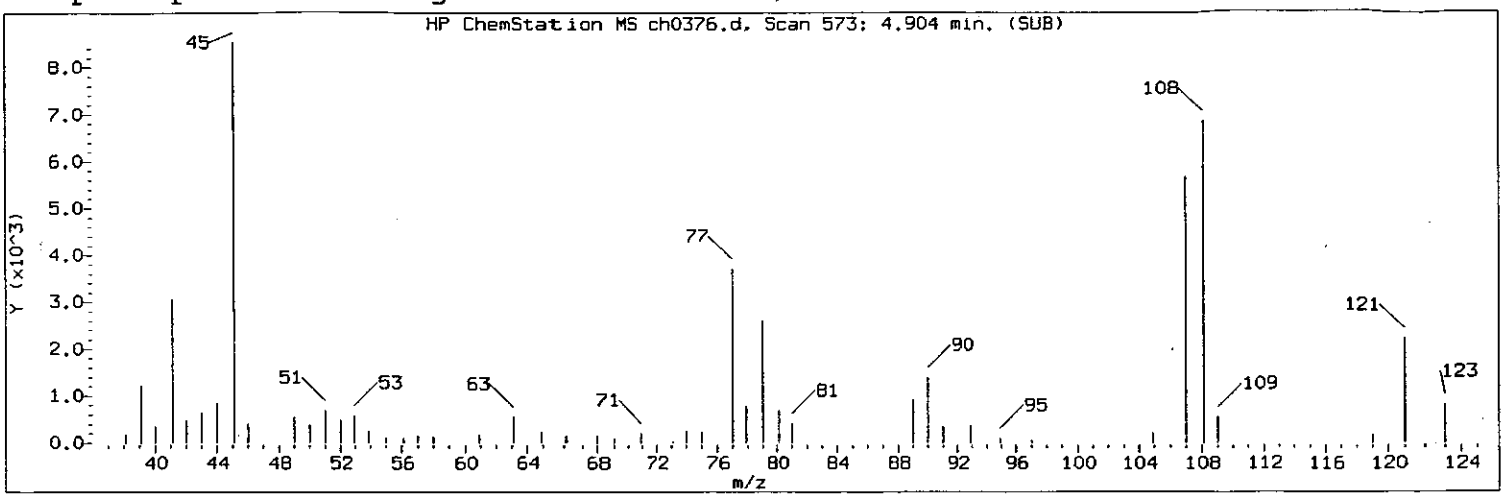
Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 26
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 573
Retention Time (minutes): 4.904
Quant Ion : 45
Area : 19195
Concentration (ng/ul) : 5.9330
Integration start scan : 551 Integration stop scan: 601
Y at integration start : 188 Y at integration end: 188

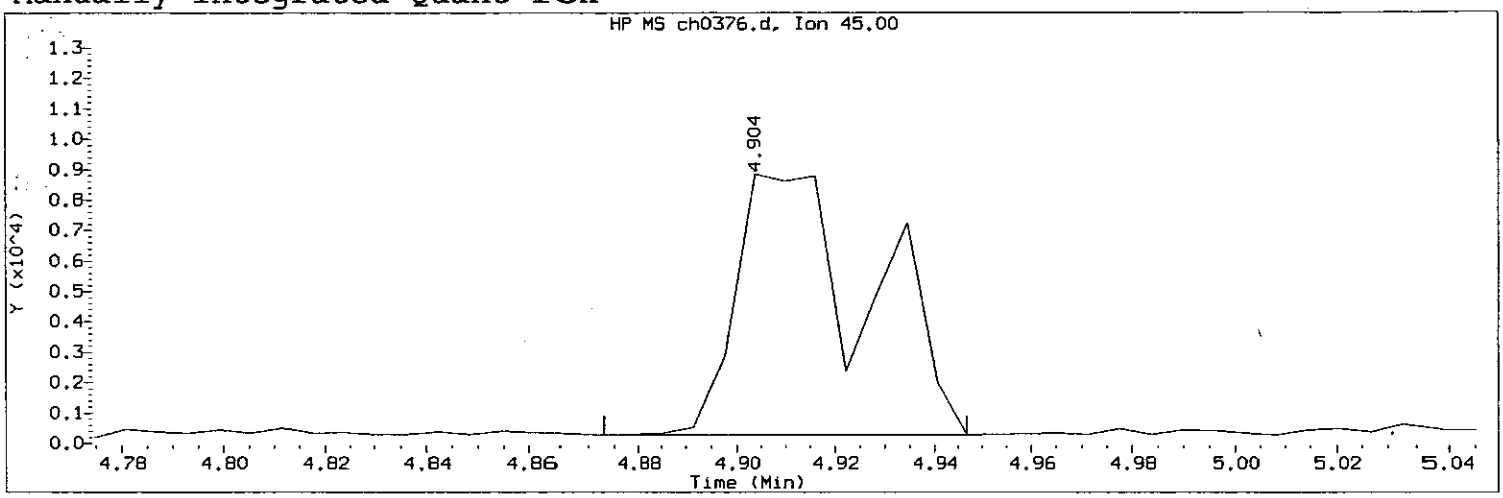
mc(13) 8/14/07
8452

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 26
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 573
Retention Time (minutes): 4.904
Quant Ion : 45
Area (flag) : 16150 M
Concentration (ng/ul) : 5.1535
Integration start scan : 567 Integration stop scan: 579
Y at integration start : 276 Y at integration end: 267

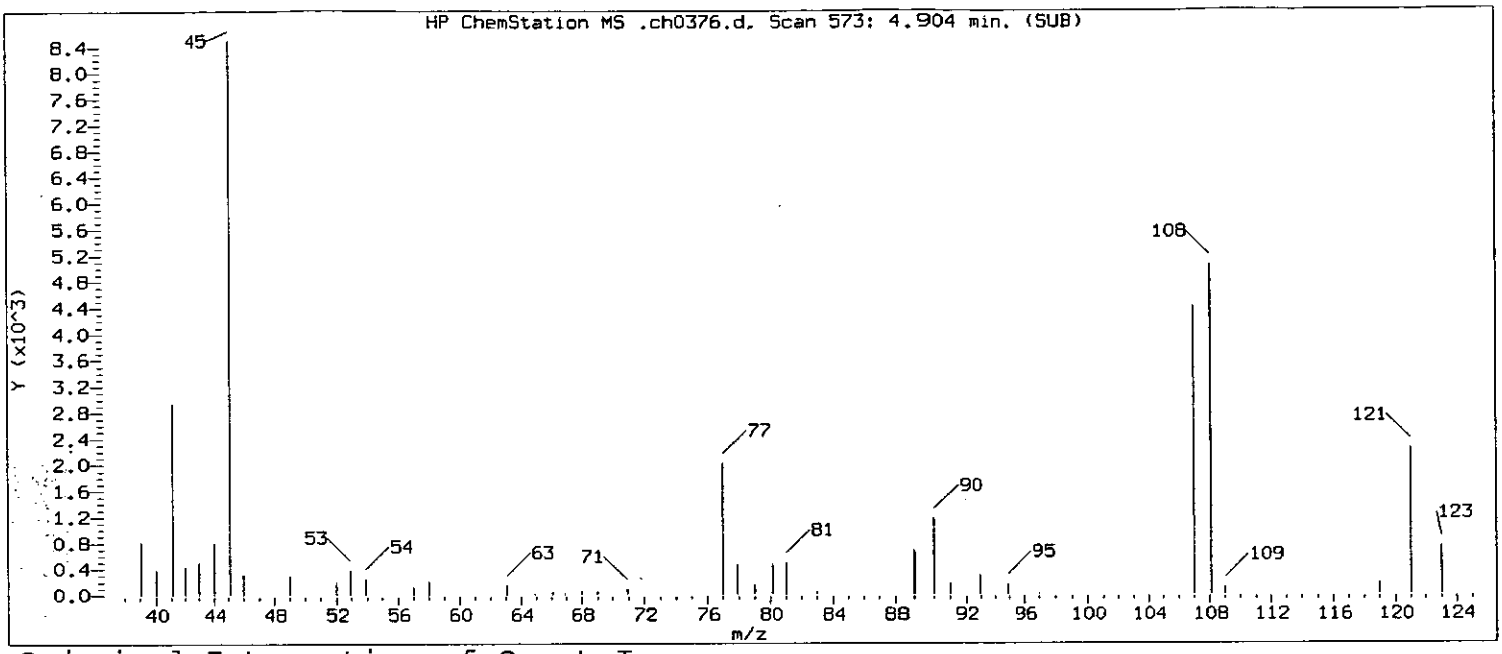
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac (3) 8/14/07

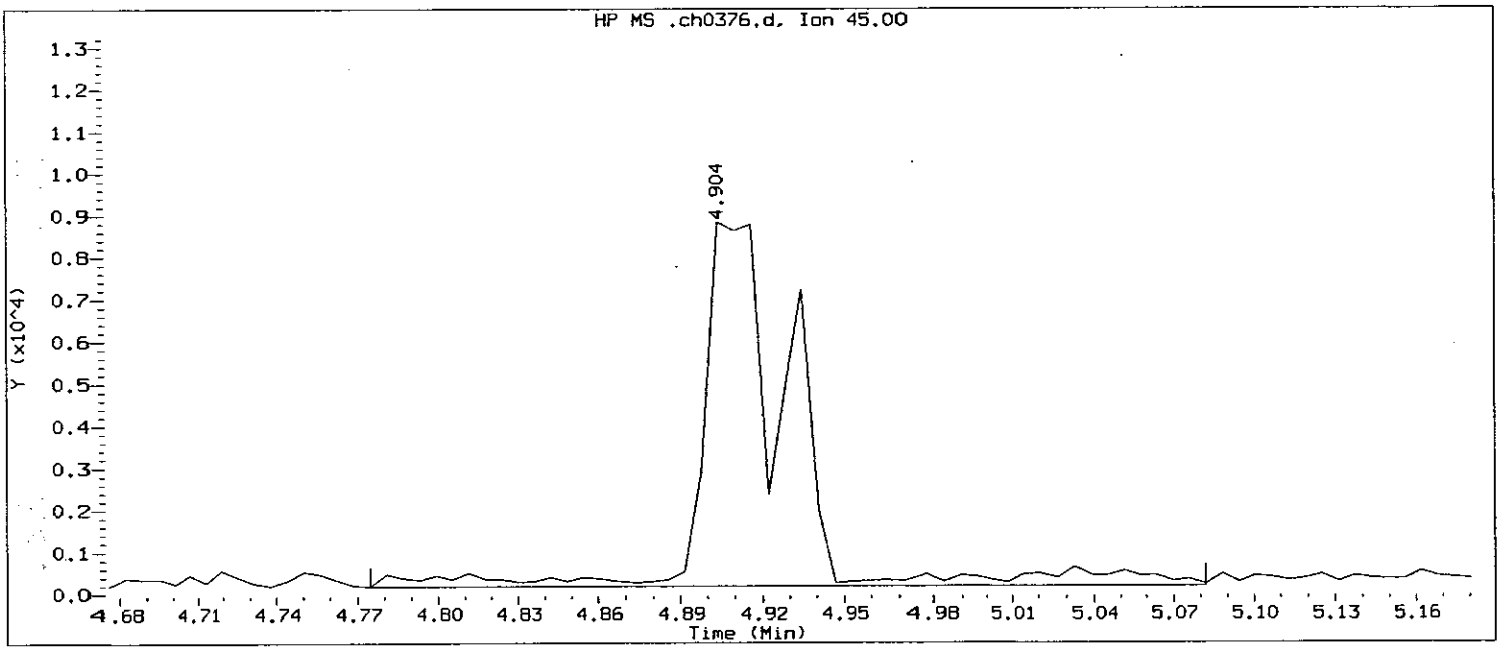
GC/MS audit/management approval: 0453 fm 103 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

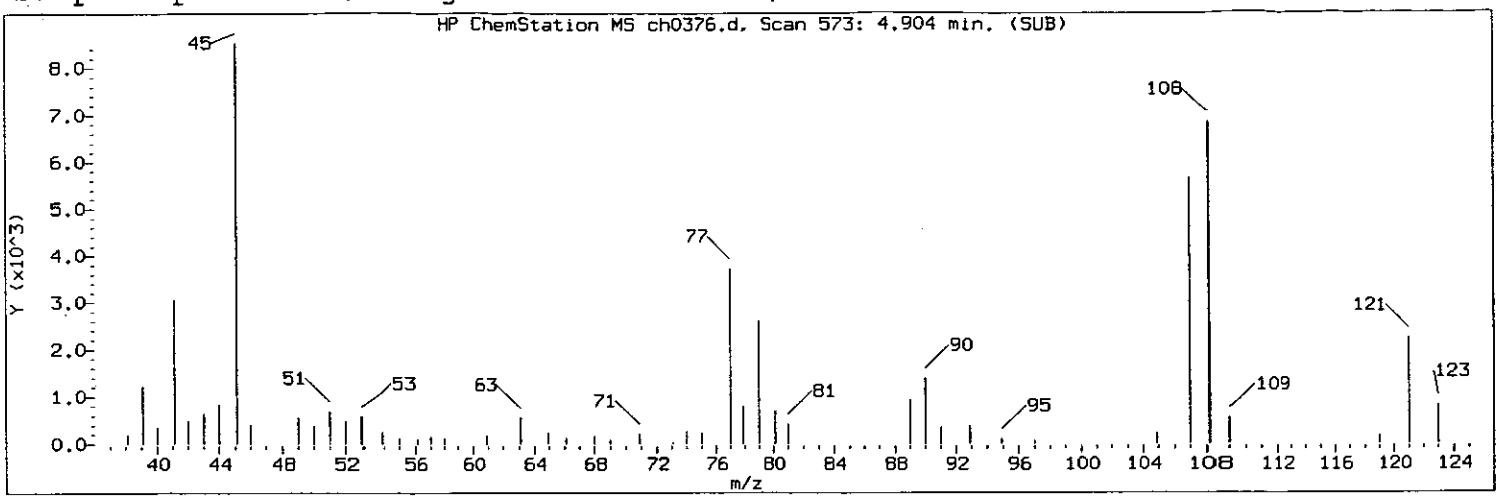
Compound Number : 27
Compound Name : bis(2-Chloroisopropyl)ether
Scan Number : 573
Retention Time (minutes): 4.904
Quant Ion : 45
Area : 19195
Concentration (ng/ul) : 5.9330
Integration start scan : 551 Integration stop scan: 601
Y at integration start : 188 Y at integration end: 188

mac 13 8/14/07

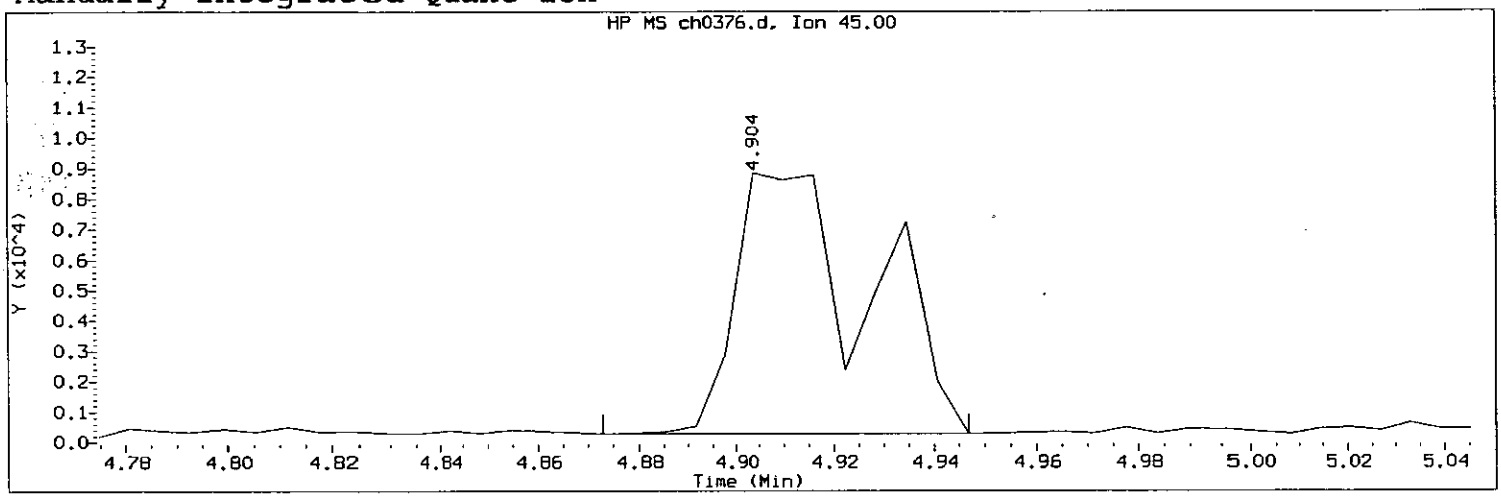
8454

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 27
Compound Name : bis(2-Chloroisopropyl)ether
Scan Number : 573
Retention Time (minutes): 4.904
Quant Ion : 45
Area (flag) : 16150 M
Concentration (ng/ul) : 5.1535
Integration start scan : 567 Integration stop scan: 579
Y at integration start : 276 Y at integration end: 267

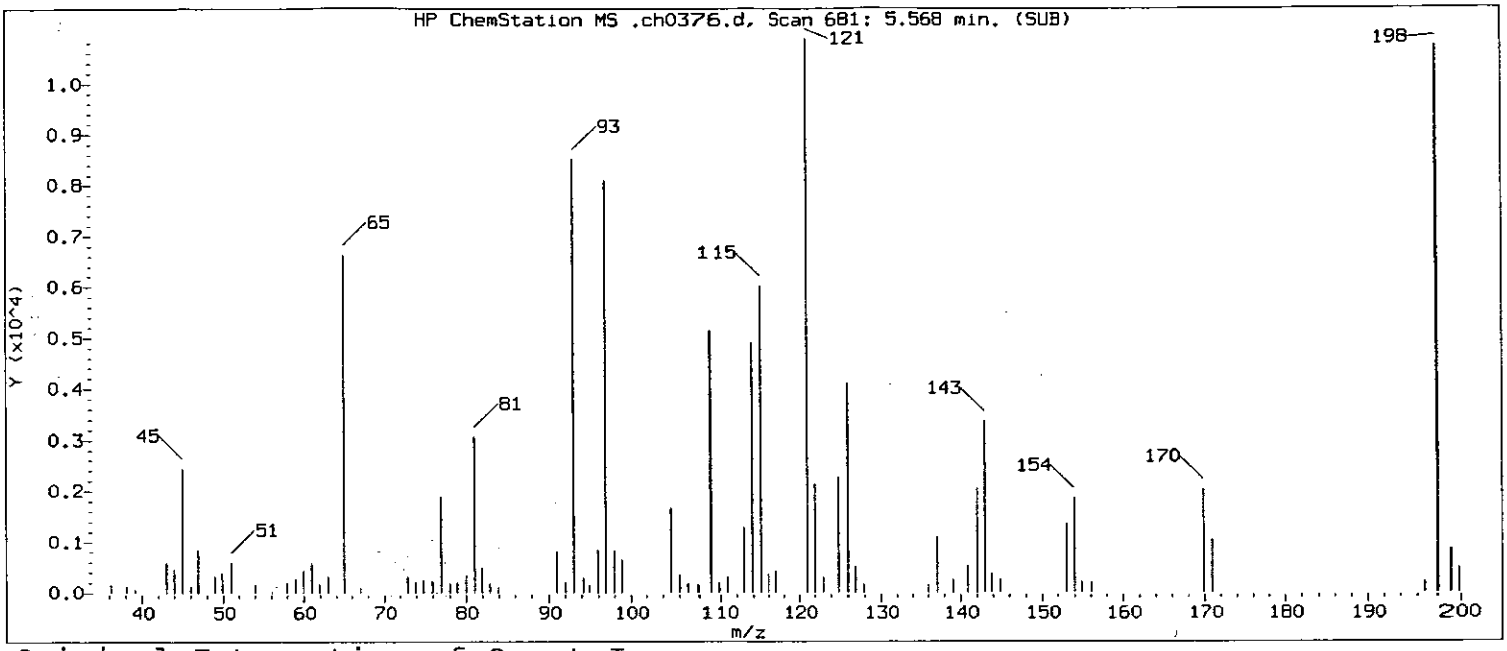
Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mac(13) 8/14/07

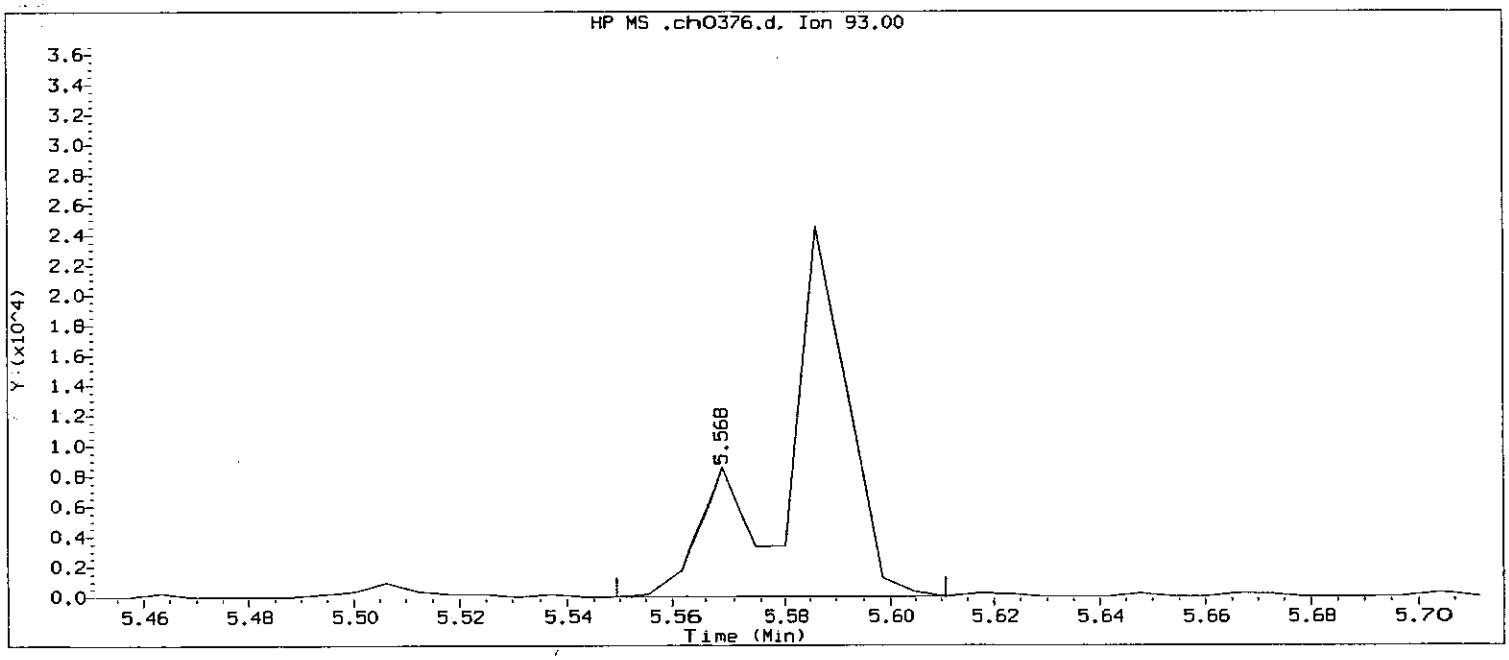
0455

GC/MS audit/management approval: lmh 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

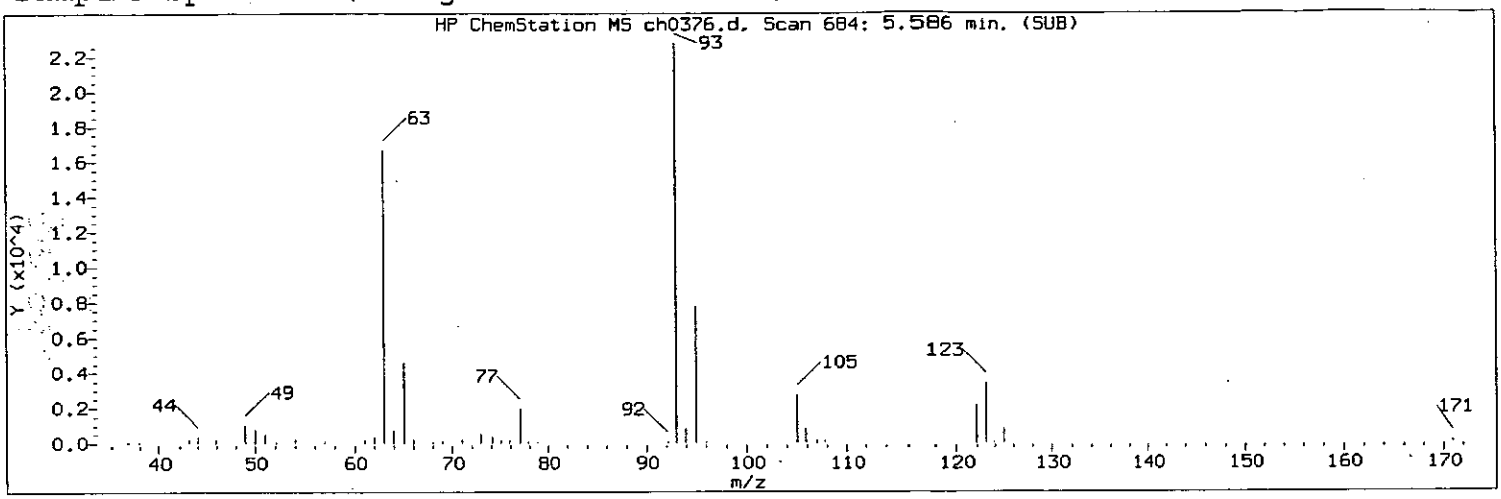
Compound Number	: 42
Compound Name	: bis(2-Chloroethoxy)methane
Scan Number	: 681
Retention Time (minutes)	: 5.568
Quant Ion	: 93
Area	: 20813
Concentration (ng/ul)	: 6.2338
Integration start scan	: 677 Integration stop scan: 687
Y at integration start	: 0 Y at integration end: 0

mc 13 8/14/07

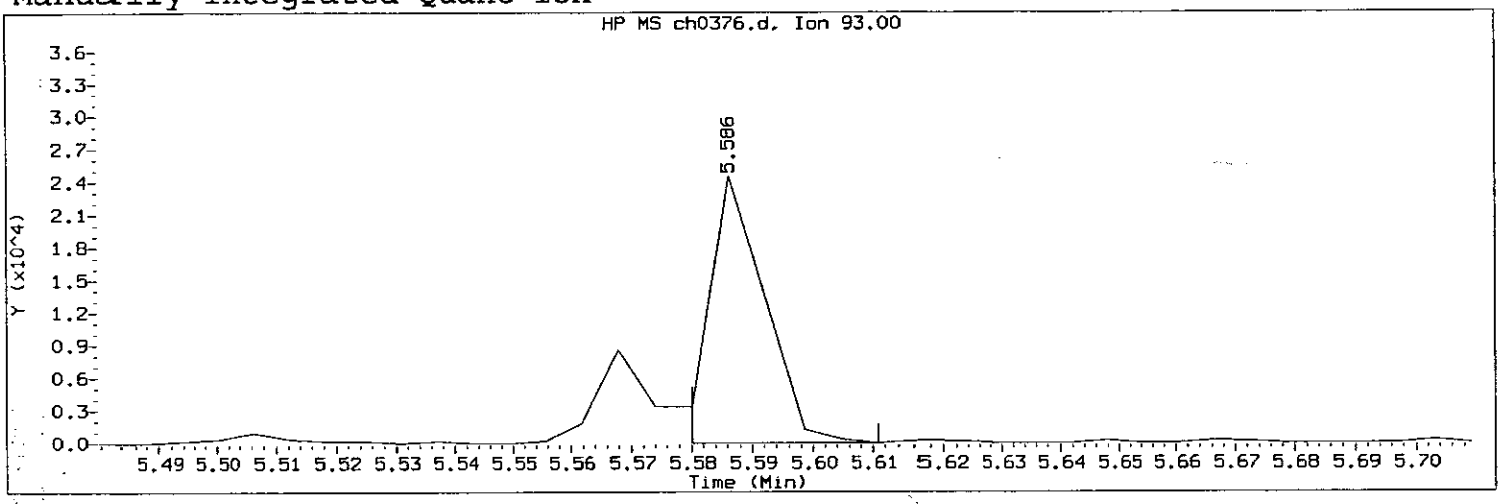
0456

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 42
Compound Name : bis(2-Chloroethoxy)methane
Scan Number : 684
Retention Time (minutes): 5.586
Quant Ion : 93
Area (flag) : 15723 M
Concentration (ng/ul) : 4.9613
Integration start scan : 682 Integration stop scan: 687
Y at integration start : -16 Y at integration end: -16

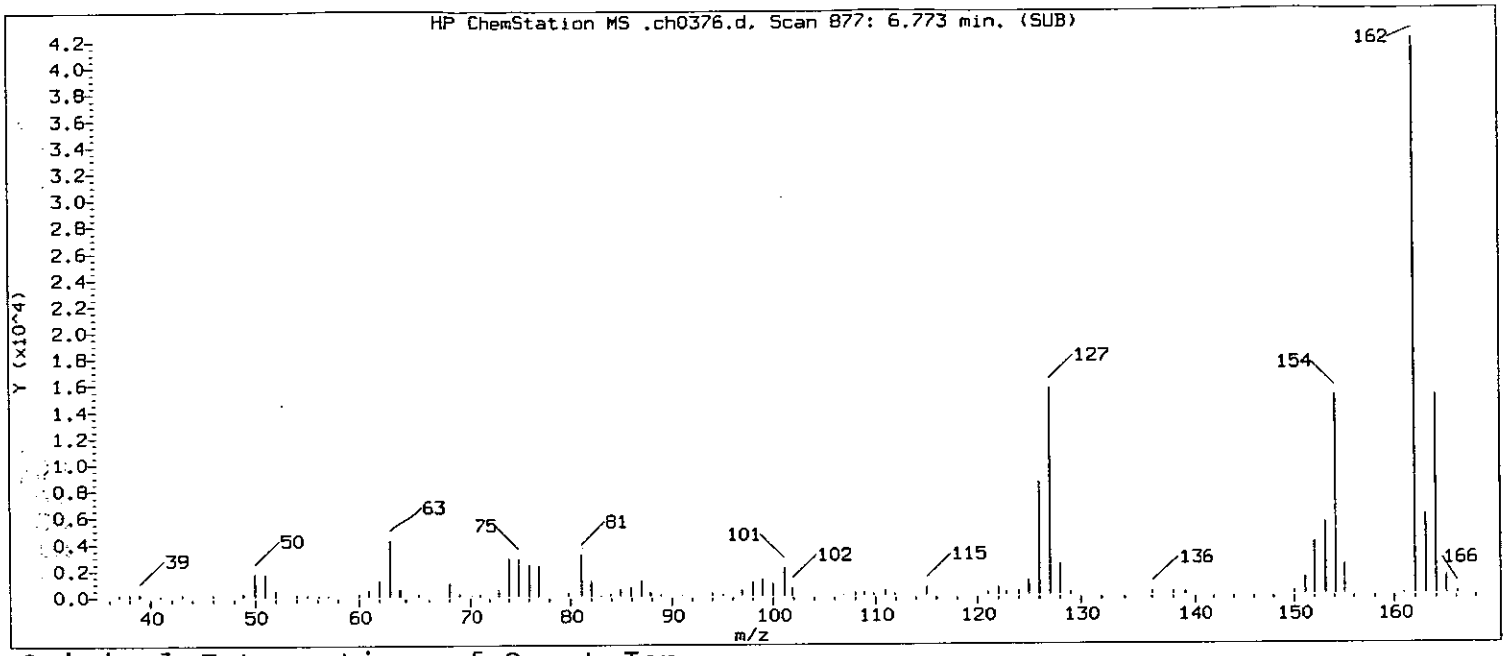
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac (3) 8/14/07

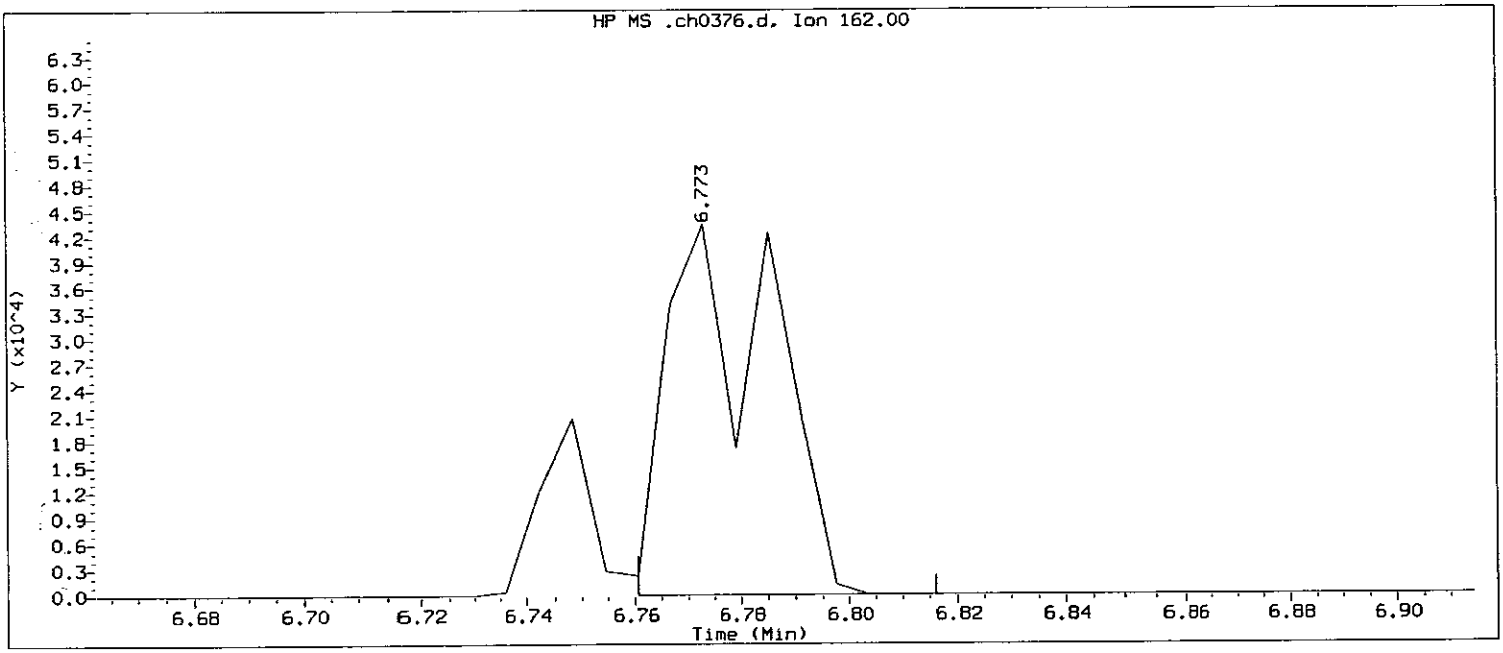
8457

GC/MS audit/management approval: [signature] 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

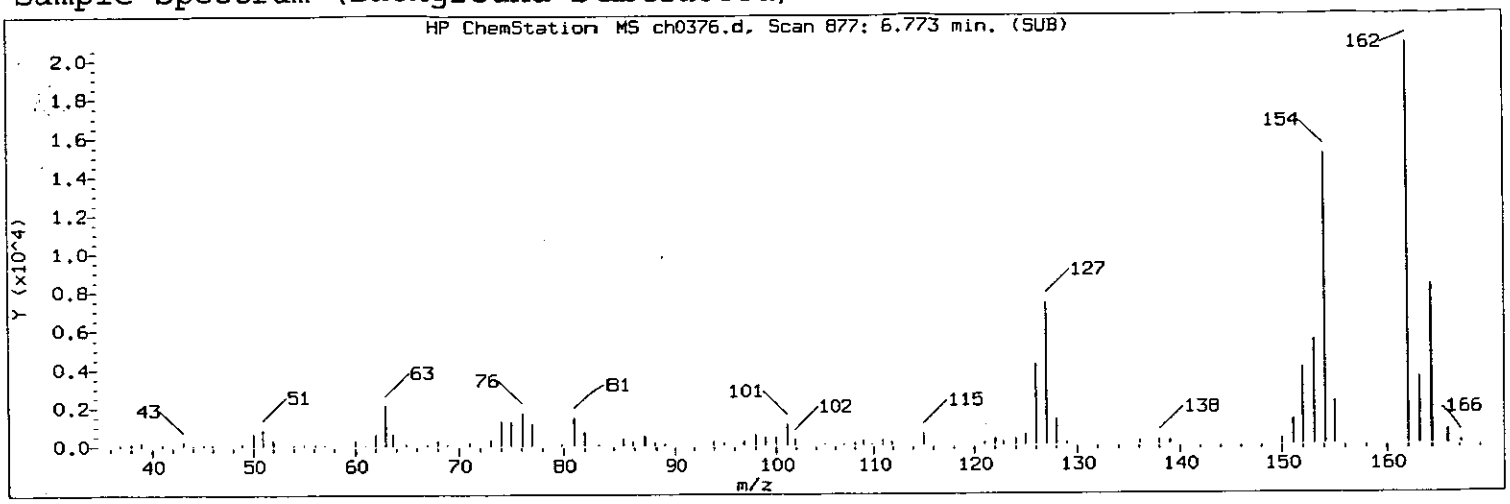
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 58960
Concentration (ng/ul) : 7.5117
Integration start scan : 874 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mc(13) 8/14/07

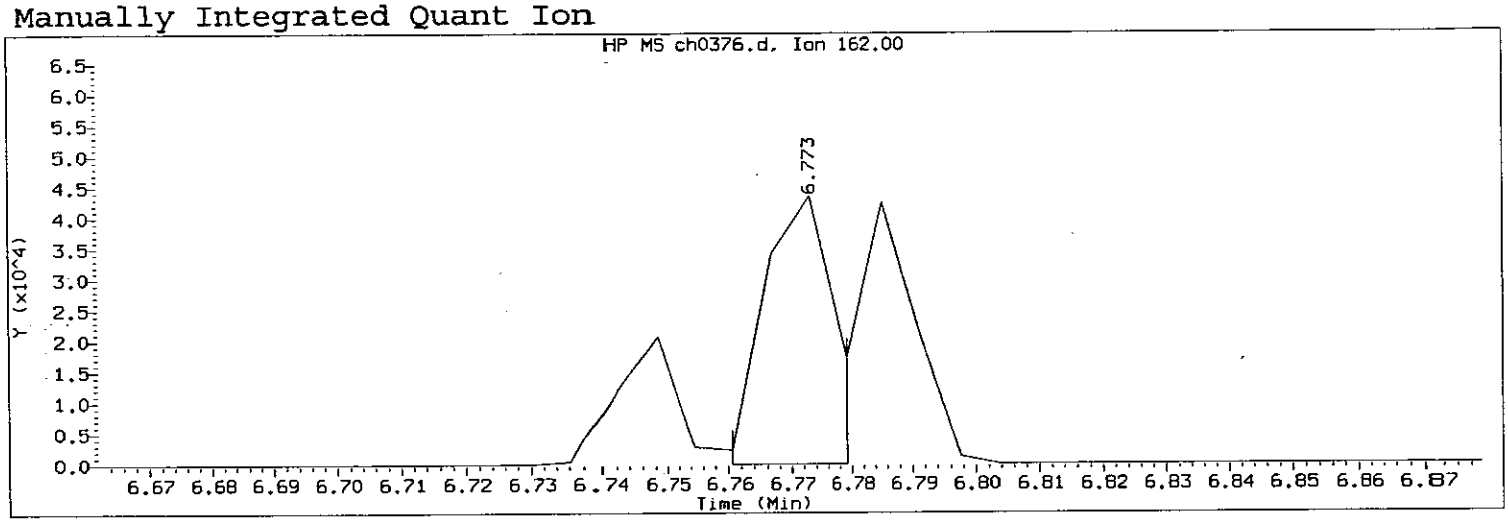
0458

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 macO0013

Sample Name: SSTD005 Lab Sample ID: STD2187

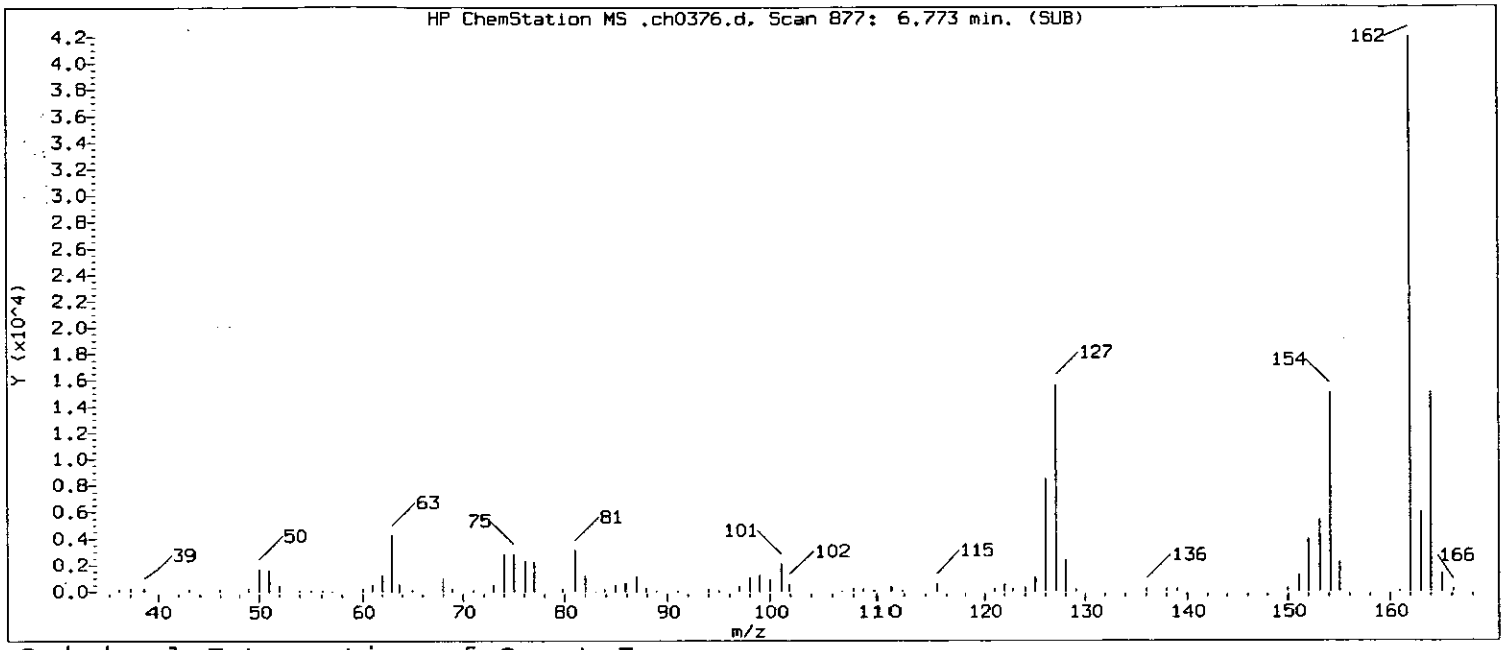
Compound Number	:	71
Compound Name	:	2-Chloronaphthalene
Scan Number	:	877
Retention Time (minutes)	:	6.773
Quant Ion	:	162
Area (flag)	:	35782 M
Concentration (ng/ul)	:	5.0565
Integration start scan	:	874 Integration stop scan: 877
Y at integration start	:	-44 Y at integration end: -44

Reason for manual integration (circle one): missed peak ~~improper integrati~~

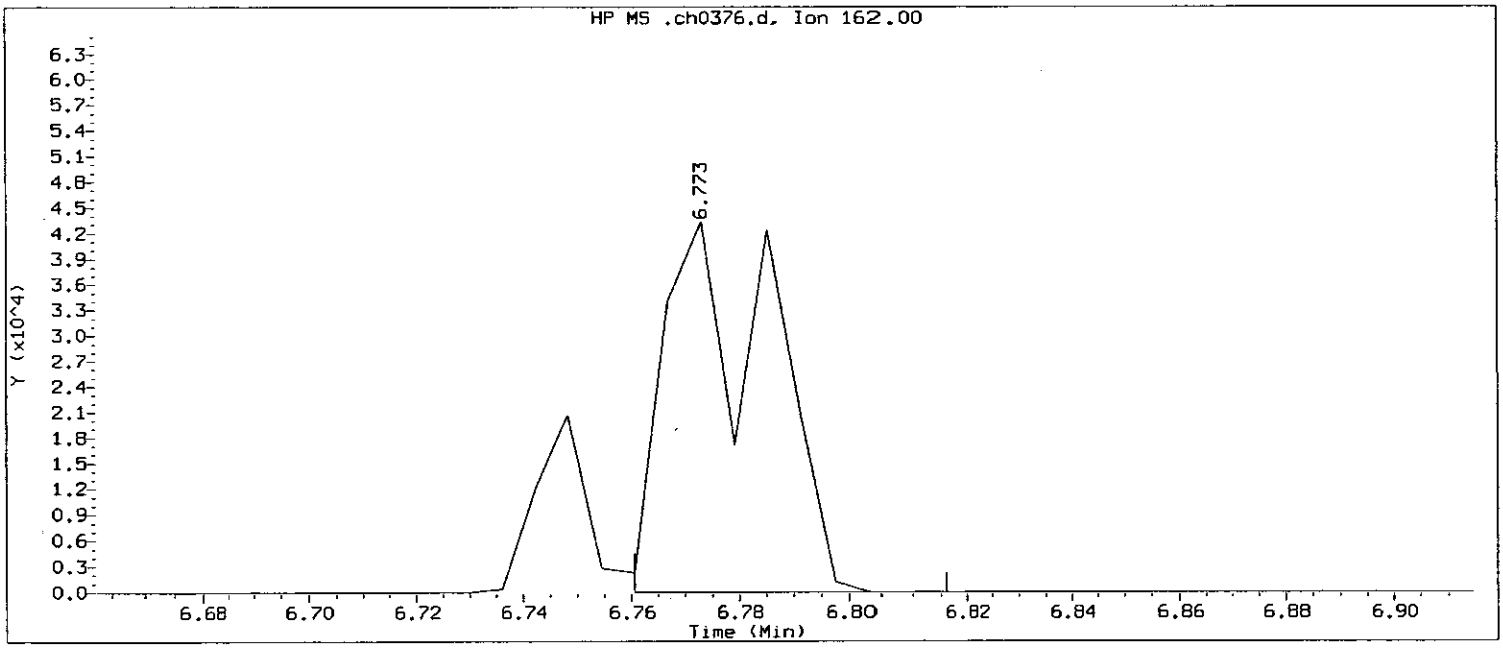
Analyst responsible for change: mc(13) 8/14/07

GC/MS audit/management approval: 8459 [illegible] 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

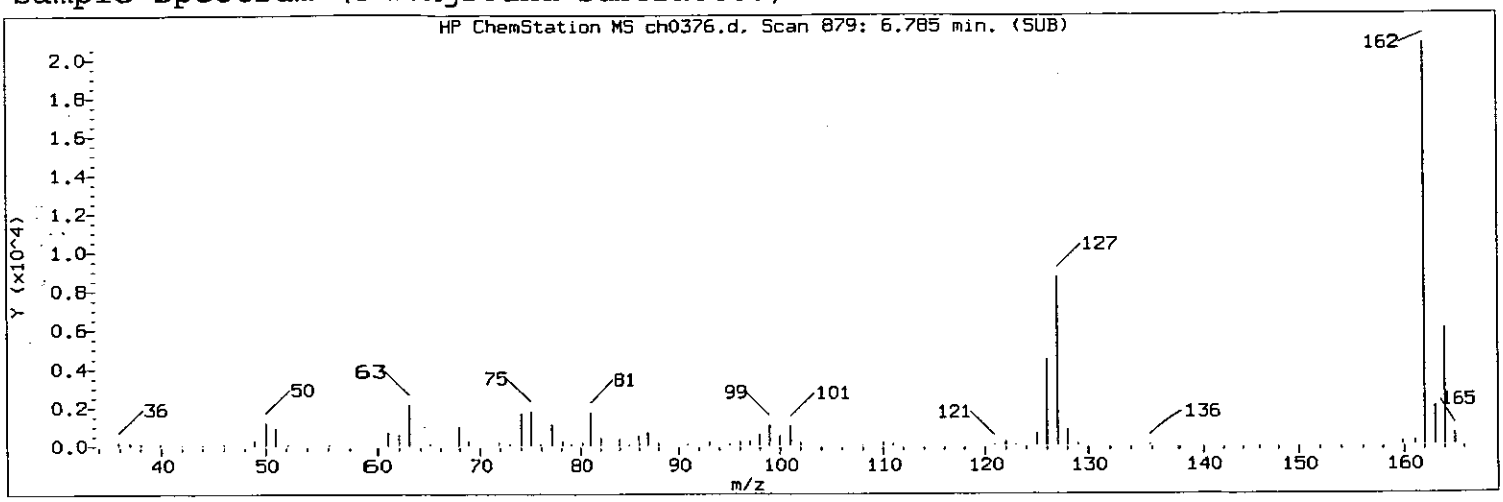
Compound Number	: 72
Compound Name	: 1-Chloronaphthalene
Scan Number	: 877
Retention Time (minutes)	: 6.773
Quant Ion	: 162
Area	: 58960
Concentration (ng/ul)	: 8.4062
Integration start scan	: 874 Integration stop scan: 883
Y at integration start	: 0 Y at integration end: 0

mc(3) 8/14/07

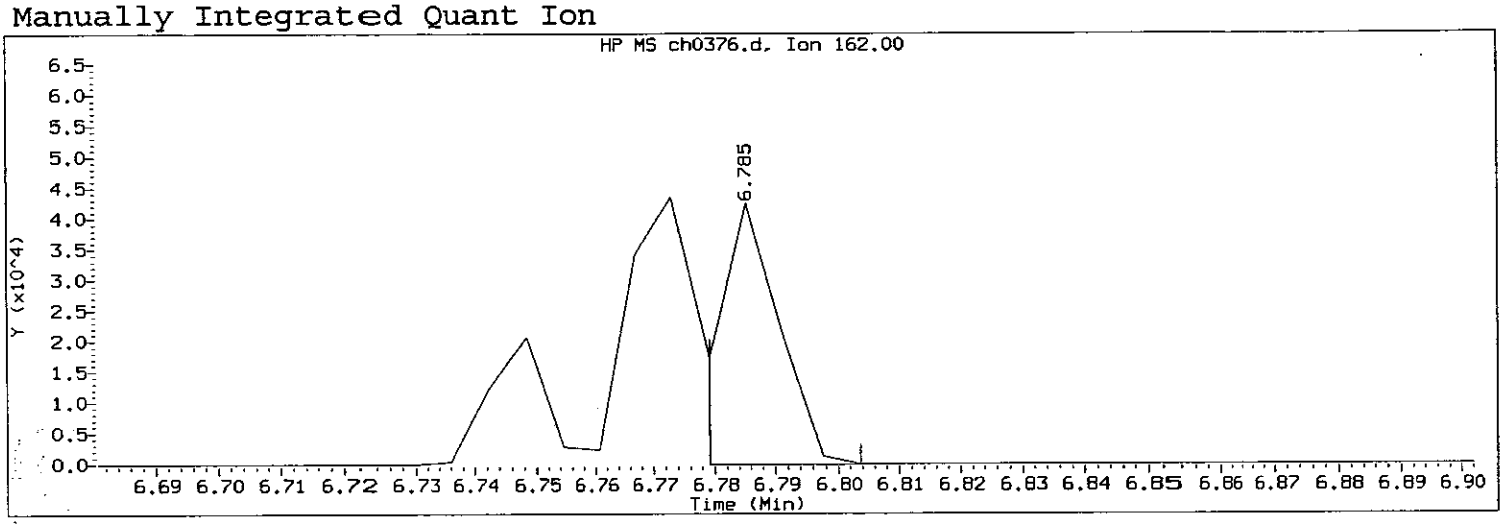
8468

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 879
Retention Time (minutes): 6.785
Quant Ion : 162
Area (flag) : 30271 M
Concentration (ng/ul) : 4.9973
Integration start scan : 877 Integration stop scan: 881
Y at integration start : -151 Y at integration end: -151

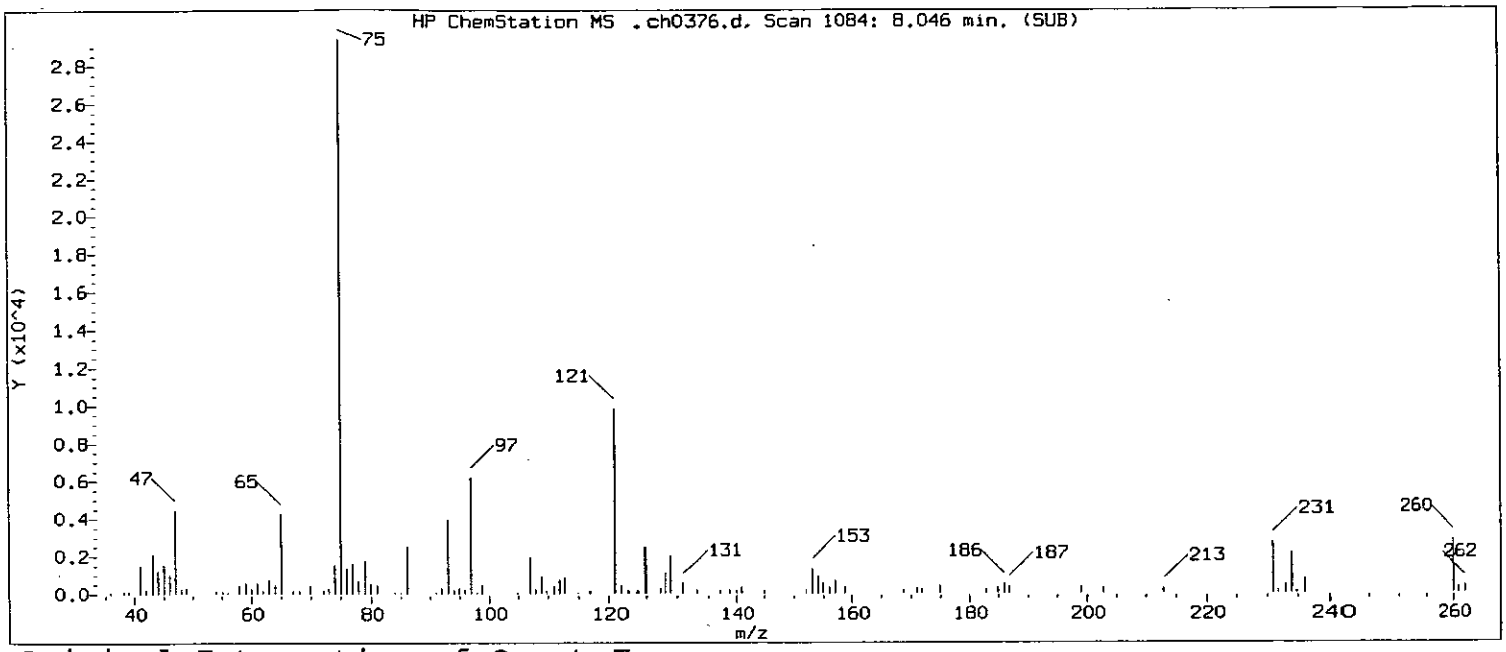
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac(13) 8/14/07

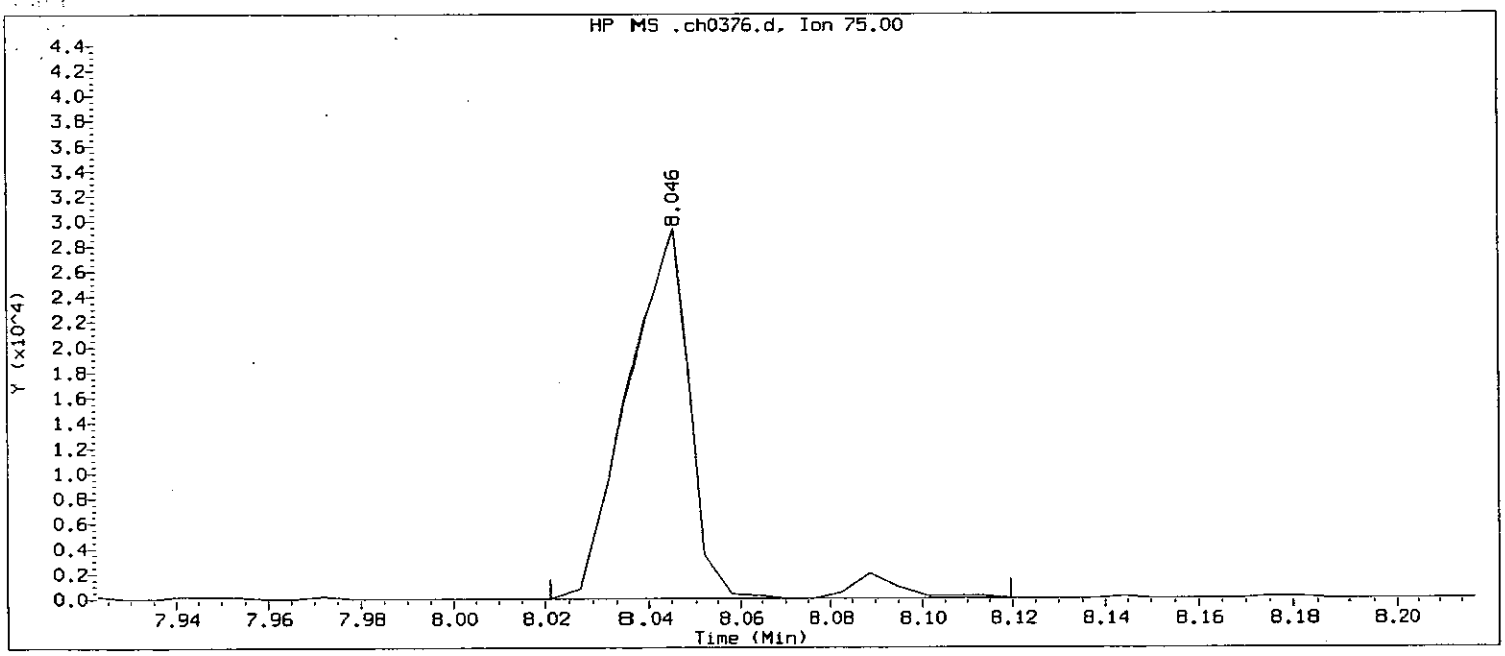
GC/MS audit/management approval: 0461 tm13 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

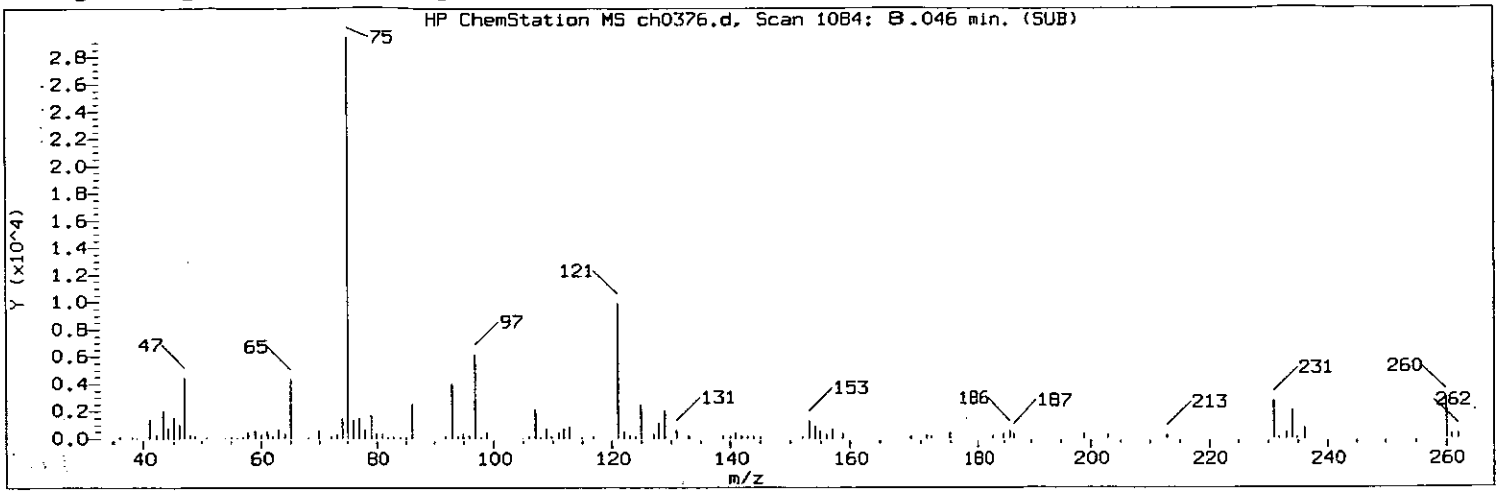
Compound Number : 108
Compound Name : Phorate
Scan Number : 1084
Retention Time (minutes): 8.046
Quant Ion : 75
Area : 25822
Concentration (ng/ul) : 4.6685
Integration start scan : 1079 Integration stop scan: 1095
Y at integration start : 0 Y at integration end: 0

mc(13) 8/14/07

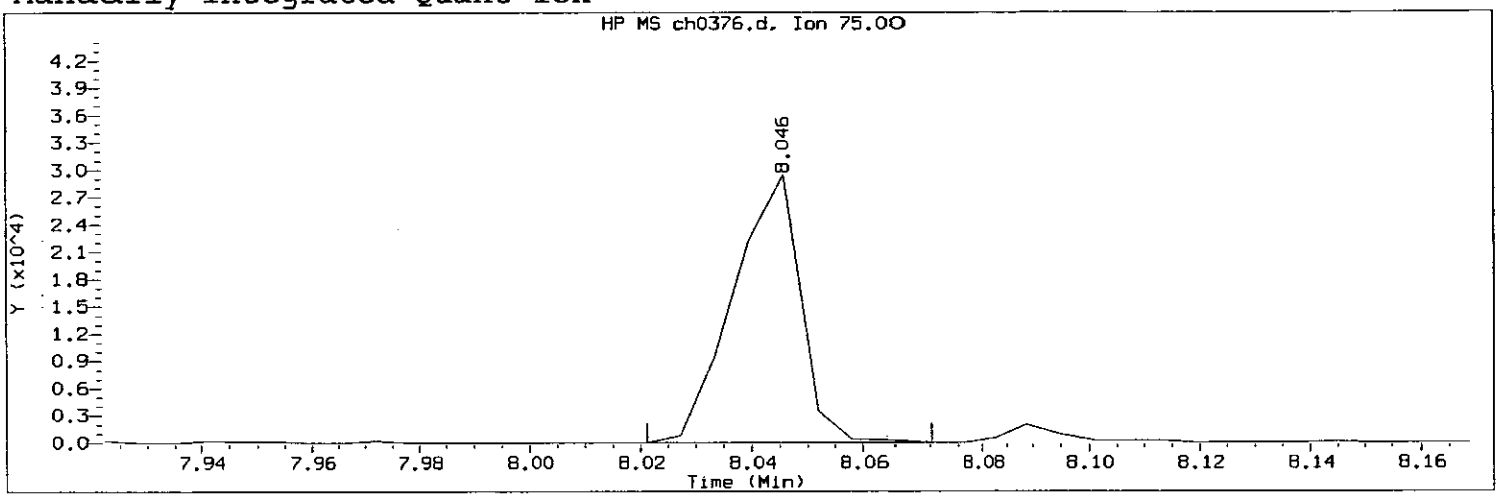
0462

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

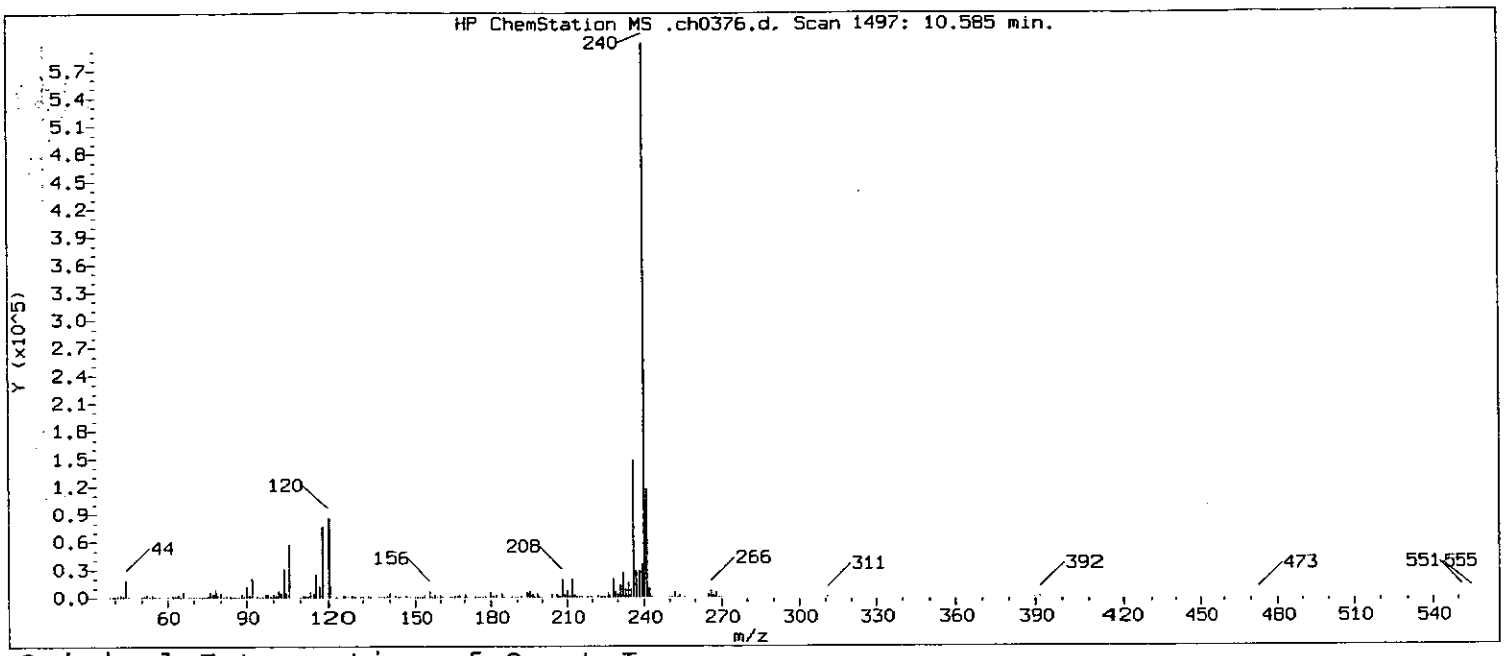
Compound Number : 108
Compound Name : Phorate
Scan Number : 1084
Retention Time (minutes): 8.046
Quant Ion : 75
Area (flag) : 24350 M
Concentration (ng/ul) : 4.4418
Integration start scan : 1079 Integration stop scan: 1087
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integrati

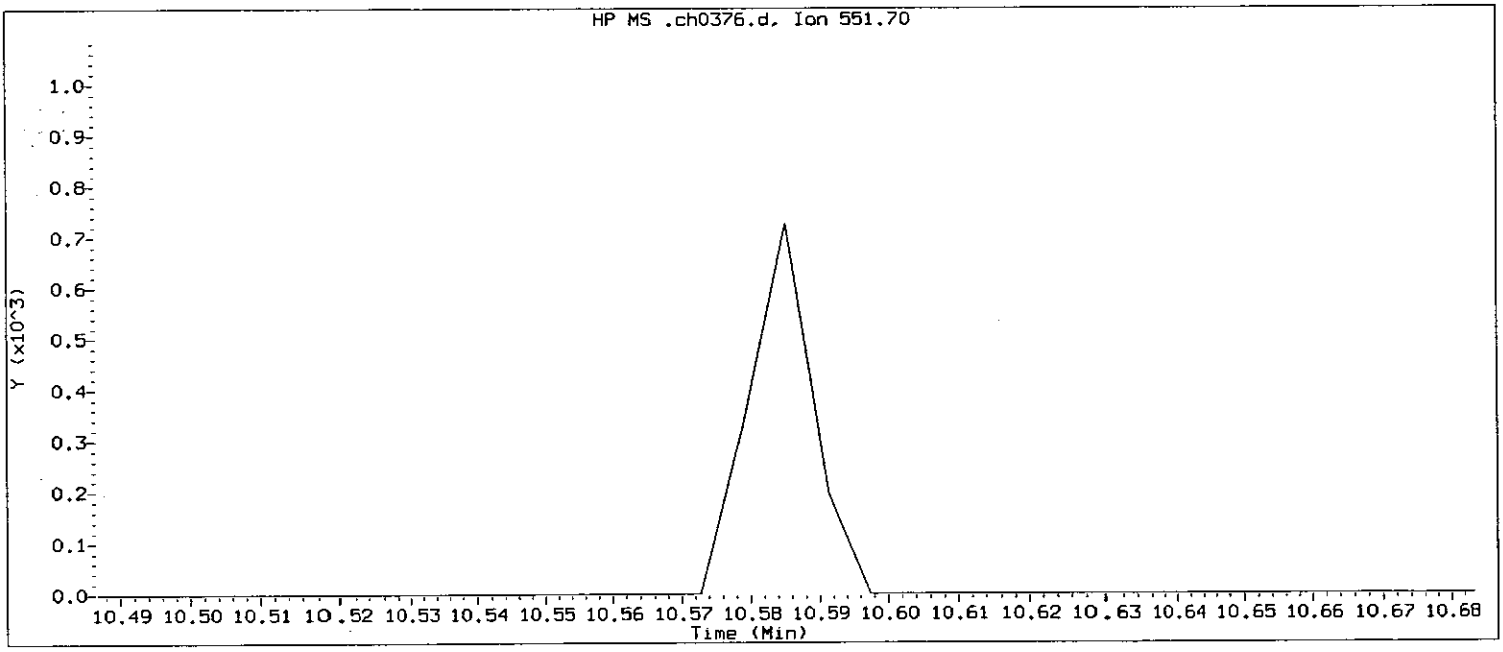
Analyst responsible for change: mc(13) 8/14/07

GC/MS audit/management approval: 8463 jm13 8/14/07

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:41 mac00013

Sample Name: SSTD005 Lab Sample ID: STD2187

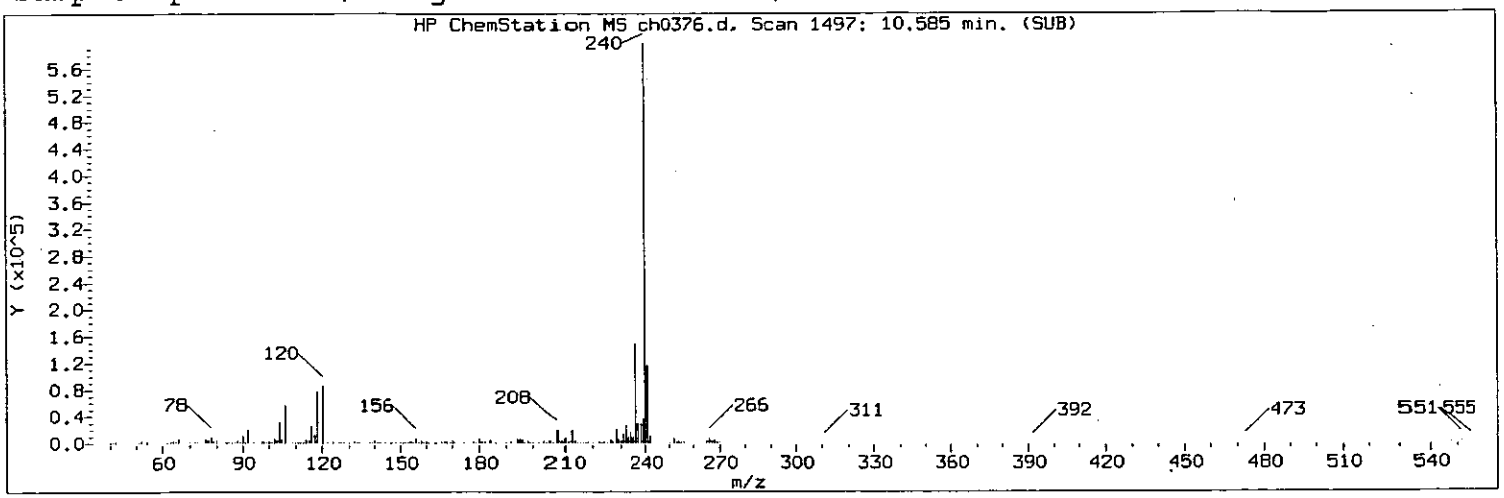
Compound Number : 147
Compound Name : Hexabromobenzene
Expected RT (minutes) : 10.585
Quant Ion : 552

mmc (13) 8/14/07

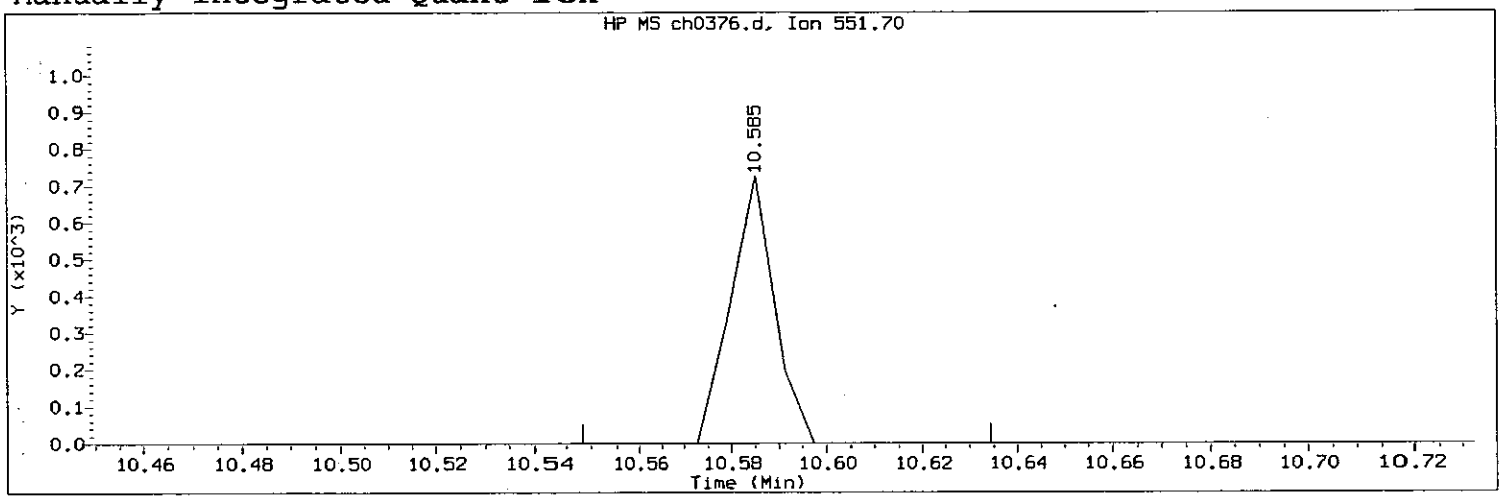
8464

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0376.d, generated on 08/14/2007 at 03:45

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0376.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:38 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 03:41
Date, time and analyst ID of latest file update: 14-Aug-2007 03:45 mac00013

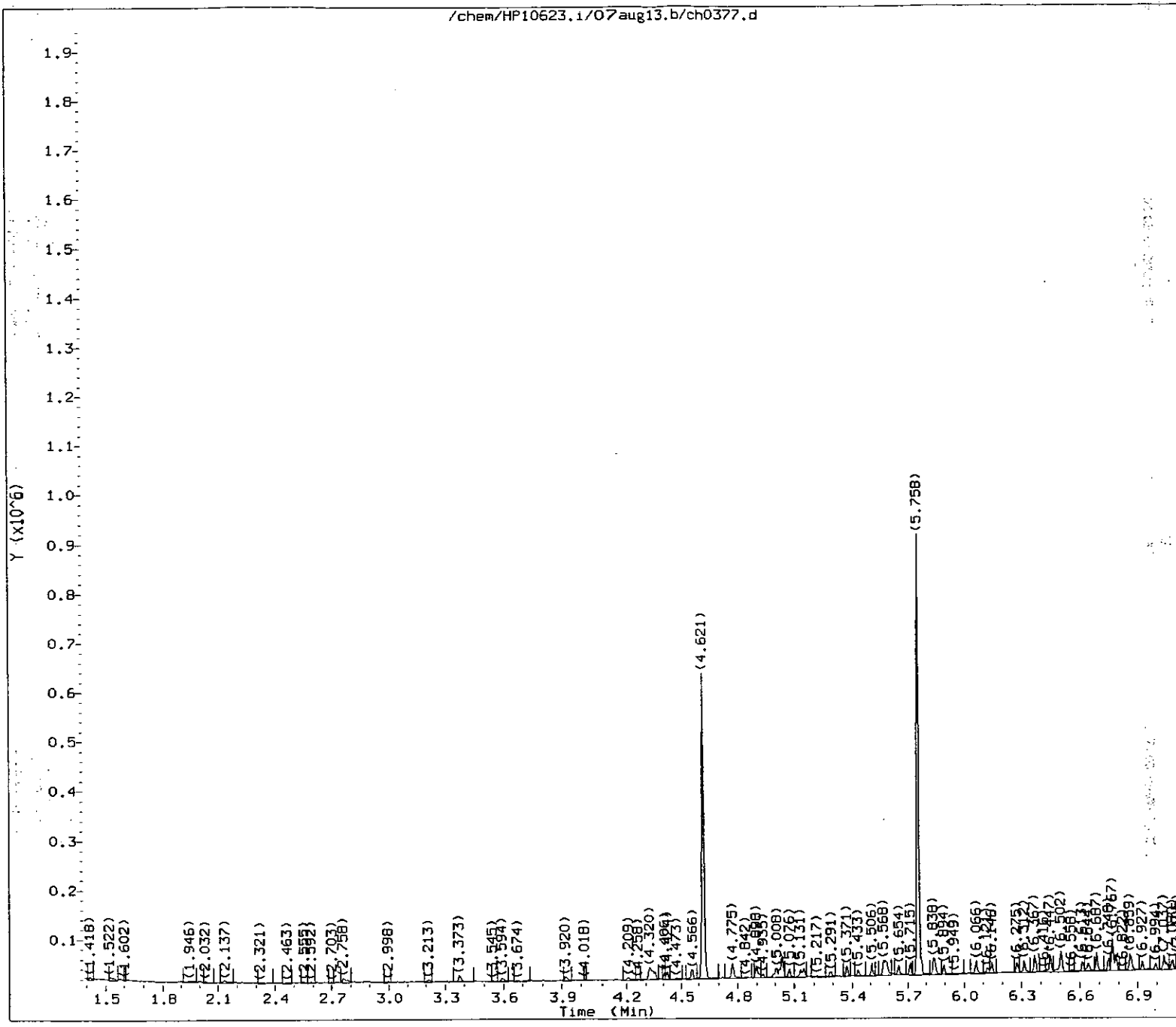
Sample Name: SSTD005 Lab Sample ID: STD2187

Compound Number : 147
Compound Name : Hexabromobenzene
Scan Number : 1497
Retention Time (minutes): 10.585
Quant Ion : 552
Area (flag) : 463 M
Concentration (ng/ul) : 4.4660
Integration start scan : 1490 Integration stop scan: 1504
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): ~~missed peak~~ improper integrati

Analyst responsible for change: mac(13) 8/14/07

GC/MS audit/management approval: 8465 bmm 8/14/07



Quant Report

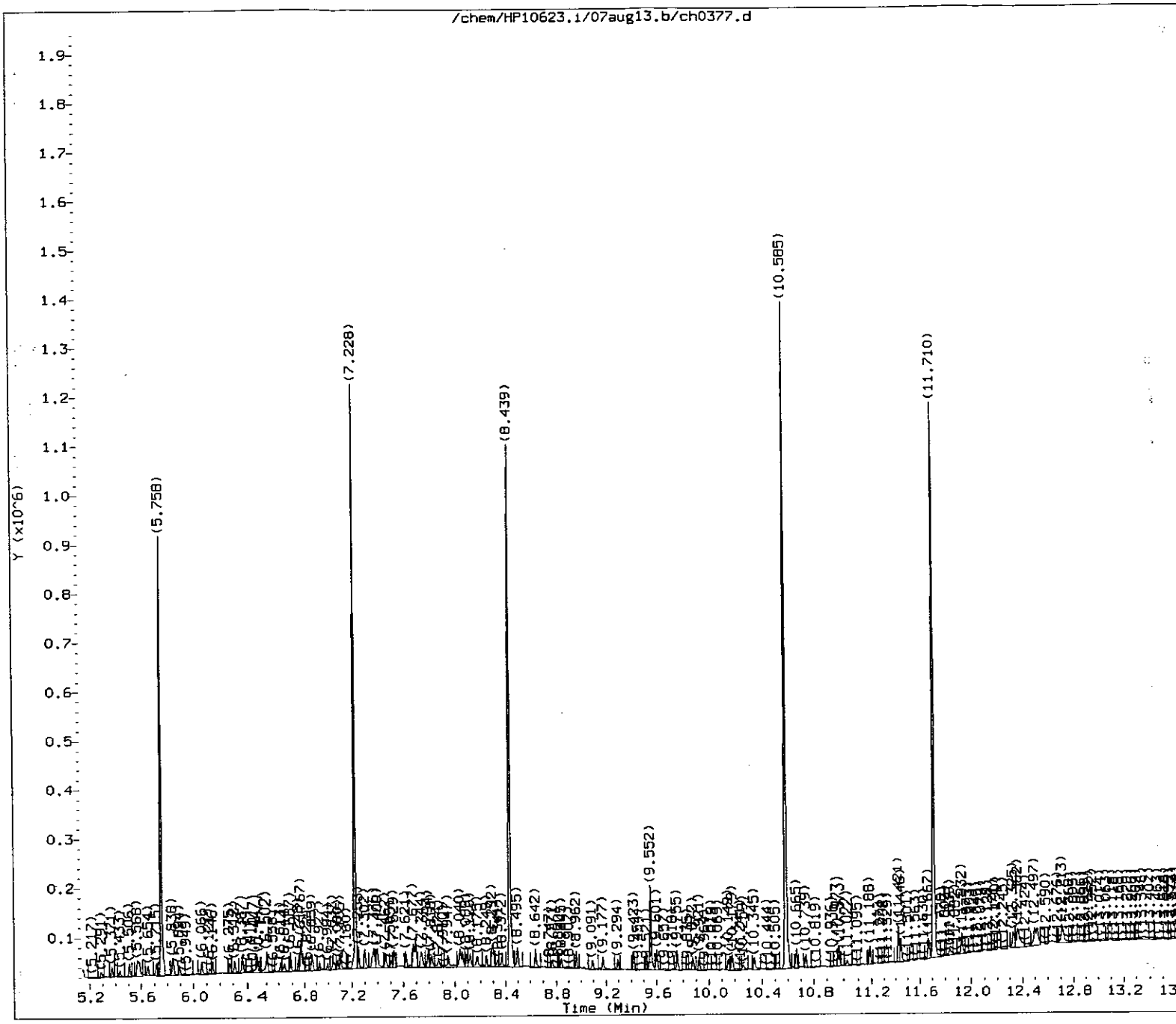
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

8466
mac (3) 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

mc (3) B467 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.528	88	1666	1.3880
2) N-Nitrosodimethylamine	(1)	1.891	74	1731M	0.9643
3) Pyridine	(1)	1.952	79	3661 A	1.0680
5) 2-Picoline	(1)	2.758	93	4491	1.3665
15) Phenol	(1)	4.338	94	4948	1.2355
16) Aniline	(1)	4.320	93	6610	1.3000
18) bis(2-Chloroethyl)ether	(1)	4.406	93	4063	1.3622
19) 2-Chlorophenol	(1)	4.424	128	3540	1.1934
20) 1,3-Dichlorobenzene	(1)	4.566	146	3889	1.2587
21) 1,4-Dichlorobenzene-d4	(1)	4.621	152	76787	40.0000
22) 1,4-Dichlorobenzene	(1)	4.639	146	3880	1.2338
23) Benzyl alcohol	(1)	4.775	108	2654	1.2634
24) 1,2-Dichlorobenzene	(1)	4.769	146	3555	1.1984
25) 2-Methylphenol	(1)	4.898	108	3785	1.2966
26) 2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	4207M	1.4099
27) bis(2-Chloroisopropyl)ether	(1)	4.916	45	4207M	1.4099
29) Acetophenone	(1)	5.008	105	5216	1.2373
30) N-Nitroso-di-n-propylamine	(1)	5.021	70	3230	1.5220
31) 4-Methylphenol	(1)	5.039	108	4114	1.2284
33) o-Toluidine	(1)	5.033	106	6267	1.2926
34) Hexachloroethane	(1)	5.076	117	1645	1.5390
36) Nitrobenzene	(2)	5.150	77	4212	1.3571
38) Isophorone	(2)	5.371	82	7619	1.3252
39) 2-Nitrophenol	(2)	5.433	139	1740	1.1605
40) 2,4-Dimethylphenol	(2)	5.506	107	3849	1.3127
42) bis(2-Chloroethoxy)methane	(2)	5.586	93	4174	1.3948
43) Benzoic acid	(2)	5.580	105	9768	15.4439
44) 2,4-Dichlorophenol	(2)	5.654	162	2842	1.1918
45) 1,2,4-Trichlorobenzene	(2)	5.715	180	2897	1.2120
46) Naphthalene-d8	(2)	5.758	136	327428	40.0000
47) Naphthalene	(2)	5.771	128	11379	1.3011
48) 4-Chloroaniline	(2)	5.838	127	4473	1.1883
49) 2,6-Dichlorophenol	(2)	5.845	162	2712	1.1672
51) Hexachlorobutadiene	(2)	5.894	225	1506	1.3706
52) Quinoline	(2)	6.066	129	7491	1.2552
53) Caprolactam	(2)	6.121	113	1446	1.3345
55) 4-Chloro-3-methylphenol	(2)	6.275	107	3460	1.3258
58) 2-Methylnaphthalene	(2)	6.367	142	7272	1.2308
60) 1-Methylnaphthalene	(2)	6.447	142	6804	1.1971
61) Hexachlorocyclopentadiene	(3)	6.502	237	2426	8.2136
62) 1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	2900	1.3694
64) 2,4,6-Trichlorophenol	(3)	6.613	196	2084	1.3277
65) 2,4,5-Trichlorophenol	(3)	6.644	196	2027	1.1125

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.767	154	9218	1.3697
69) Diphenyl	(3)	6.767	154	9218	1.3697
70) 1,1'-Biphenyl	(3)	6.767	154	9218	1.3697
71) 2-Chloronaphthalene	(3)	6.773	162	8282M	1.2845
72) 1-Chloronaphthalene	(3)	6.785	162	7071M	1.2812
73) Diphenyl ether	(3)	6.859	170	4442	1.2484
74) 2-Nitroaniline	(3)	6.865	138	2579	1.2960
77) Dimethylphthalate	(3)	7.037	163	7830	1.2979
79) 2,6-Dinitrotoluene	(3)	7.080	165	1590	1.1101
80) Acenaphthylene	(3)	7.111	152	9751	1.2493
81) 3-Nitroaniline	(3)	7.210	138	1779	1.0178
82) Acenaphthene-d10	(3)	7.228	164	189090	40.0000
83) Acenaphthene	(3)	7.253	153	6867	1.2913
84) 2,4-Dinitrophenol	(3)	7.302	184	4883	16.6355
85) Pentachlorobenzene	(3)	7.363	250	2219	1.1290
86) 4-Nitrophenol	(3)	7.376	109	4502	4.7158
87) Dibenzofuran	(3)	7.400	168	9946	1.2861
88) 2,4-Dinitrotoluene	(3)	7.406	165	1692	0.8894
90) 1-Naphthylamine	(3)	7.462	143	7481	1.2374
91) 2,3,4,6-Tetrachlorophenol	(3)	7.511	232	1396	1.1034
92) 2-Naphthylamine	(3)	7.529	143	8429	1.3294
93) Diethylphthalate	(3)	7.621	149	7502	1.2305
94) Fluorene	(3)	7.677	166	7614	1.2193
96) 4-Chlorophenyl-phenylether	(3)	7.695	204	3332	1.2382
98) 4-Nitroaniline	(3)	7.701	138	2355	1.2222
99) 4,6-Dinitro-2-methylphenol	(4)	7.732	198	2568	7.6735
102) N-Nitrosodiphenylamine	(4)	7.794	169	5789	1.3100
103) 1,2-Diphenylhydrazine	(4)	7.818	77	7642	1.3187
108) Phorate	(4)	8.040	75	5415	1.1460
110) 4-Bromophenyl-phenylether	(4)	8.089	248	1784	1.1701
112) Hexachlorobenzene	(4)	8.120	284	2251	1.2376
116) Pentachlorophenol	(4)	8.292	266	2956	3.0706
120) Phenanthrene-d10	(4)	8.439	188	339564	40.0000
121) Phenanthrene	(4)	8.458	178	11886	1.3216
122) Dinoseb	(4)	8.464	211	519M	6.3603
124) Anthracene	(4)	8.495	178	11558	1.2357
125) Carbazole	(4)	8.642	167	10955	1.2418
126) Methyl parathion	(4)	8.771	109	1930	1.0358
127) Ronnel	(4)	8.845	285	2693	1.2130
128) Di-n-butylphthalate	(4)	8.962	149	12495	1.2207
129) Parathion	(4)	9.091	109	1128M	0.9386
134) Fluoranthene	(4)	9.423	202	12488	1.2388
135) Benzidine	(5)	9.552	184	53324	7.7079

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

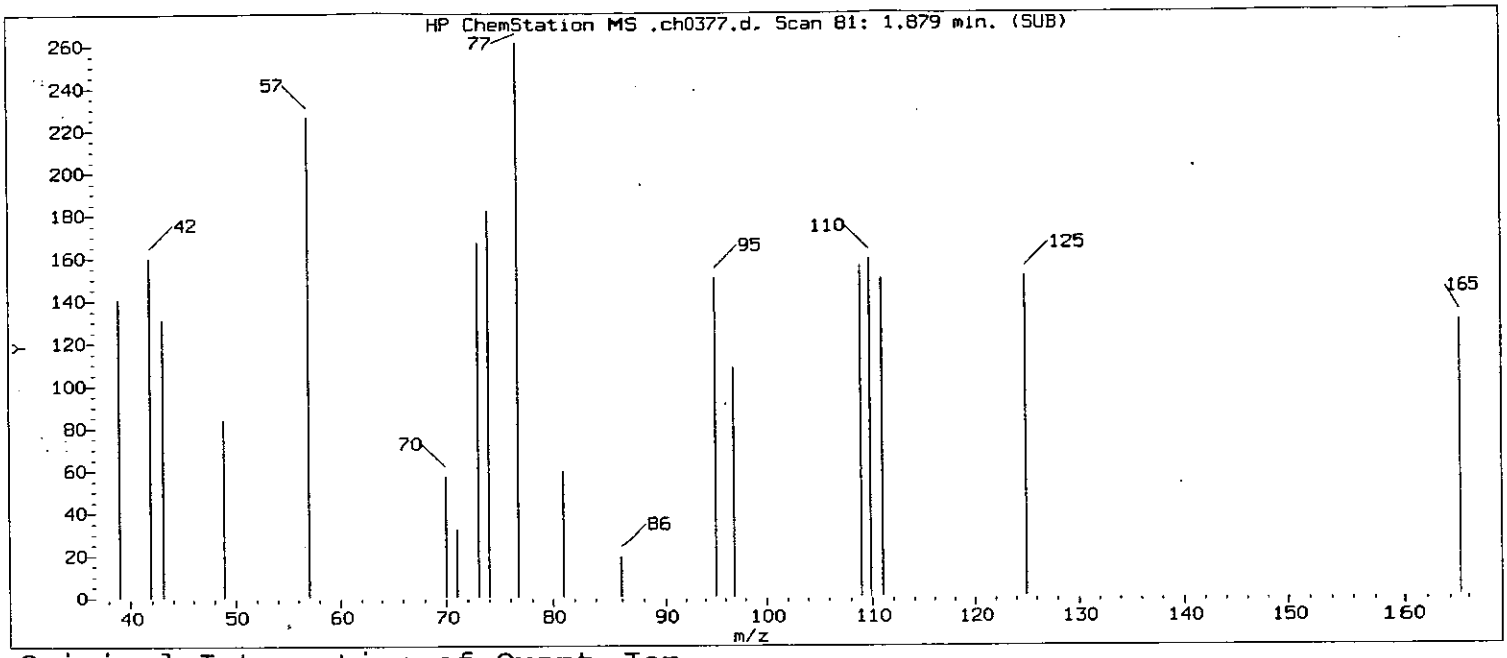
Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

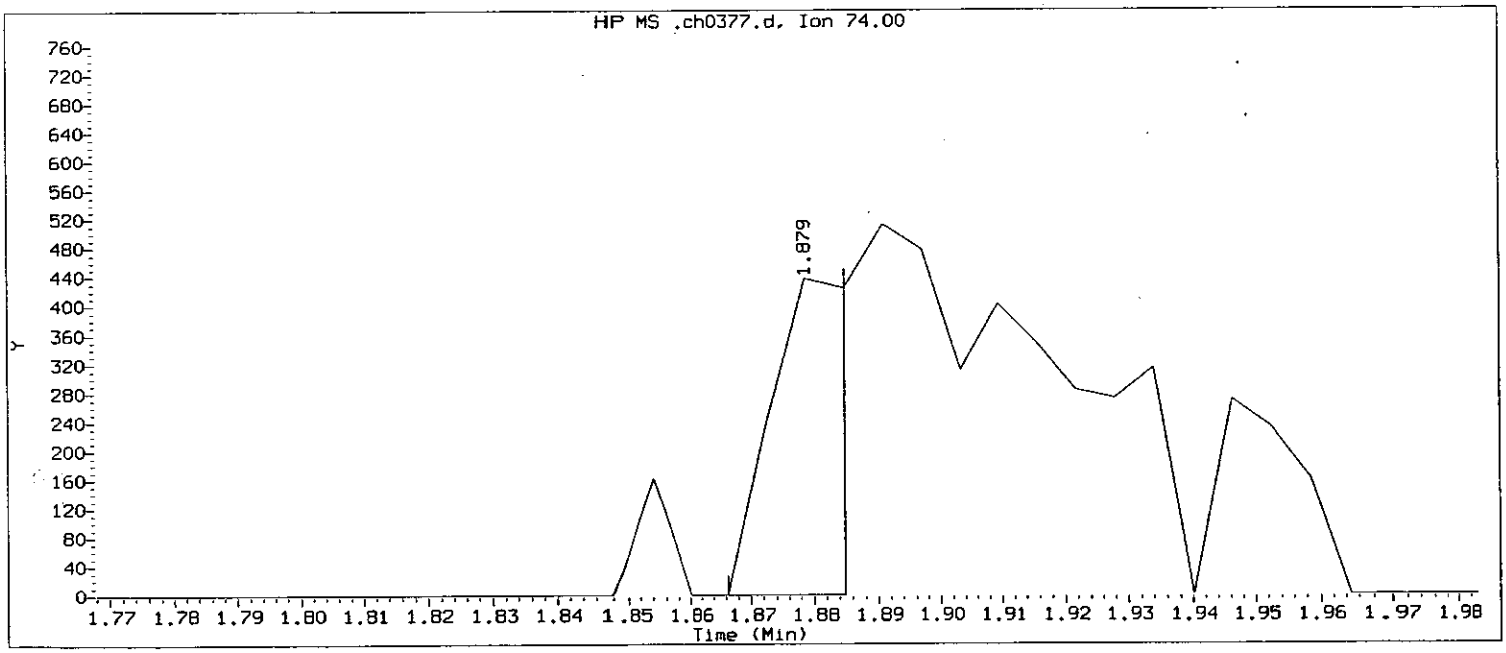
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.601	202	12556	1.1559
143)	Butylbenzylphthalate	(5)	10.179	149	5360	1.0220
145)	3,3'-Dichlorobenzidine	(5)	10.579	252	4934	1.1917
146)	Benzo(a)anthracene	(5)	10.579	228	12259	1.2436
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.585	231	2545	1.2757
149)	Chrysene-d12	(5)	10.585	240	347919	40.0000
150)	Chrysene	(5)	10.604	228	12076	1.2089
151)	bis(2-Ethylhexyl)phthalate	(5)	10.665	149	8319	1.1353
152)	6-Methylchrysene	(5)	10.973	242	9038	1.1619
156)	Di-n-octylphthalate	(6)	11.188	149	13346	1.0648
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.421	256	6348	1.1714
158)	Benzo(b)fluoranthene	(6)	11.427	252	12710	1.0679
159)	Benzo(k)fluoranthene	(6)	11.446	252	15280	1.2694
160)	Benzo(a)pyrene	(6)	11.667	252	12687M	1.1489
161)	Perylene-d12	(6)	11.710	264	341565	40.0000
162)	3-Methylcholanthrene	(6)	11.932	268	7688	1.2259
166)	Dibenz(a,h)acridine	(6)	12.325	279	11220	1.1399
167)	Dibenz(a,j)acridine	(6)	12.362	279	12734	1.2660
168)	Indeno(1,2,3-cd)pyrene	(6)	12.497	276	16874	1.2124
169)	Dibenz(a,h)anthracene	(6)	12.522	278	13454	1.2159
170)	Benzo(g,h,i)perylene	(6)	12.713	276	15145	1.2808
9)	2-Fluorophenol	(1)	3.373	112	3242	1.1348
13)	Phenol-d5	(1)	4.326	99	4548	1.2215
14)	Phenol-d6	(1)	4.326	99	4548	1.2215
35)	Nitrobenzene-d5	(2)	5.131	82	4062	1.3770
66)	2-Fluorobiphenyl	(3)	6.687	172	7666	1.3384
104)	2,4,6-Tribromophenol	(3)	7.874	330	1122	1.1734
138)	Terphenyl-d14	(5)	9.755	244	8624	1.2015

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

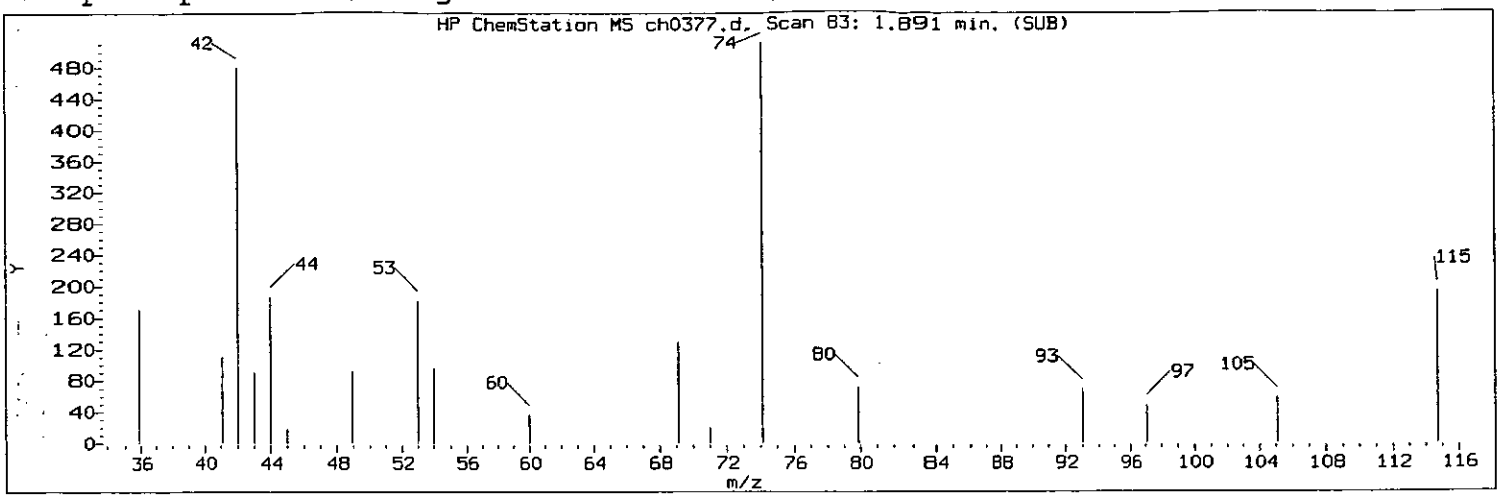
Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 81
Retention Time (minutes): 1.879
Quant Ion : 74
Area : 328
Concentration (ng/ul) : 0.1831
Integration start scan : 78 Integration stop scan: 81
Y at integration start : 0 Y at integration end: 0

mc (3) 8/14/07

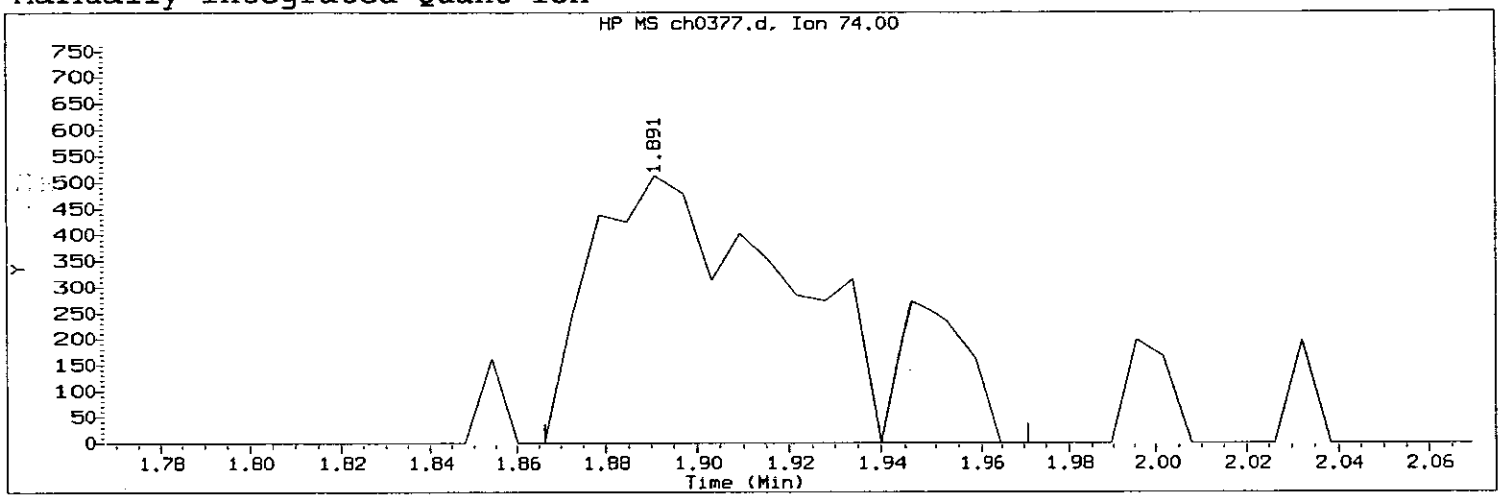
8471

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number : 2
Compound Name : N-Nitrosodimethylamine
Scan Number : 83
Retention Time (minutes): 1.891
Quant Ion : 74
Area (flag) : 1731 M
Concentration (ng/ul) : 0.9643
Integration start scan : 78 Integration stop scan: 95
Y at integration start : 0 Y at integration end: 0

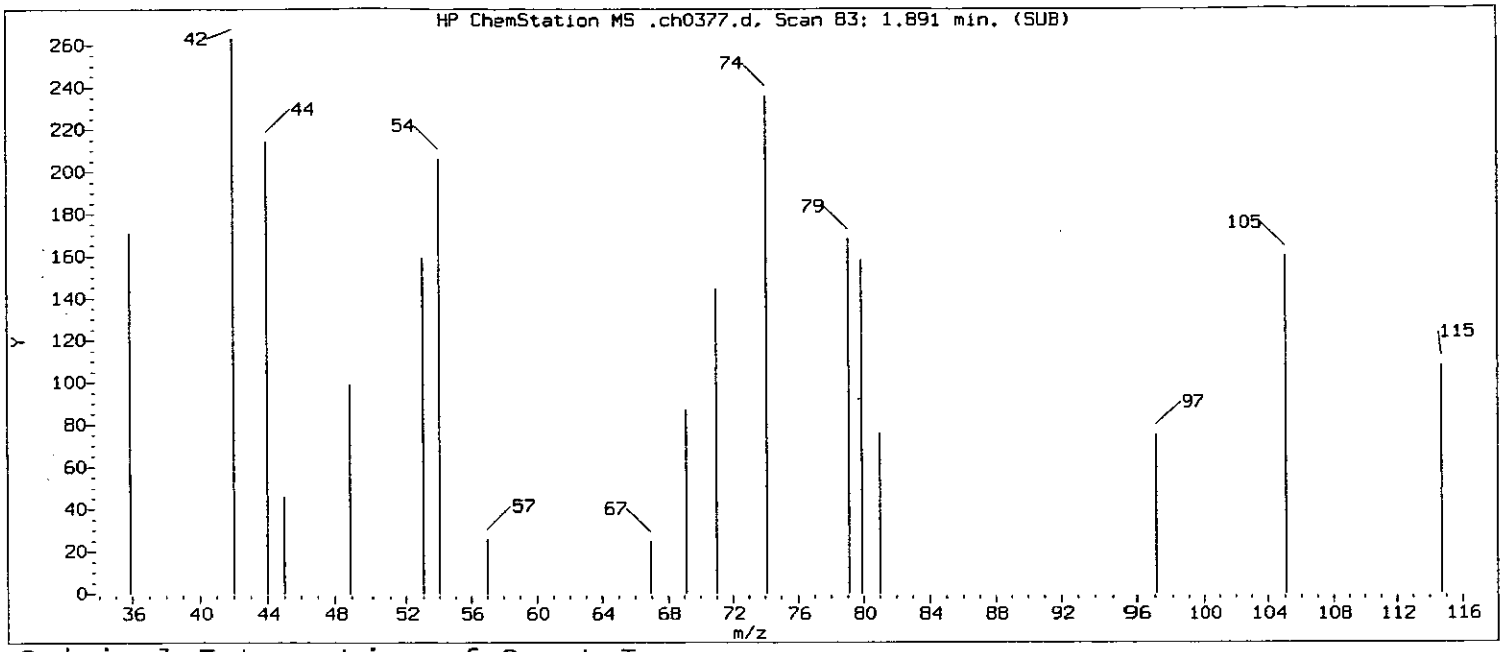
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac13 8/14/07

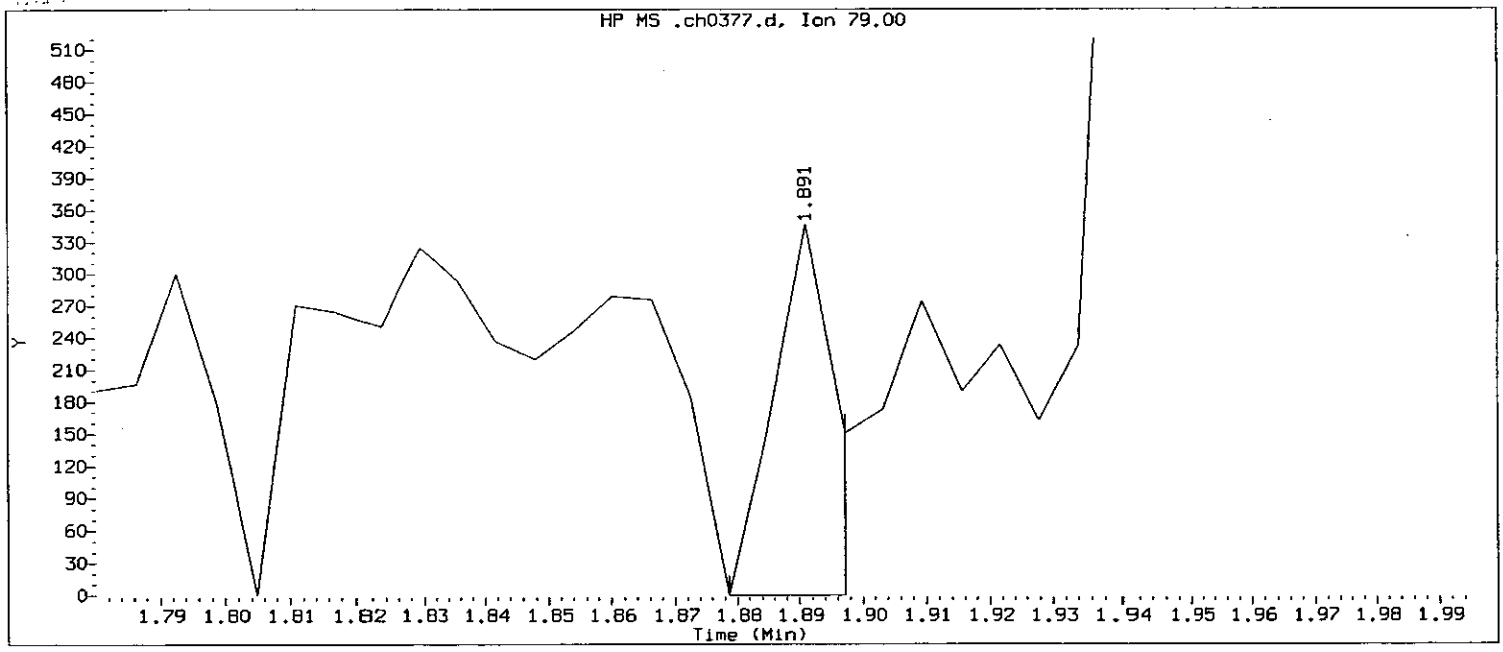
GC/MS audit/management approval: 0472 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

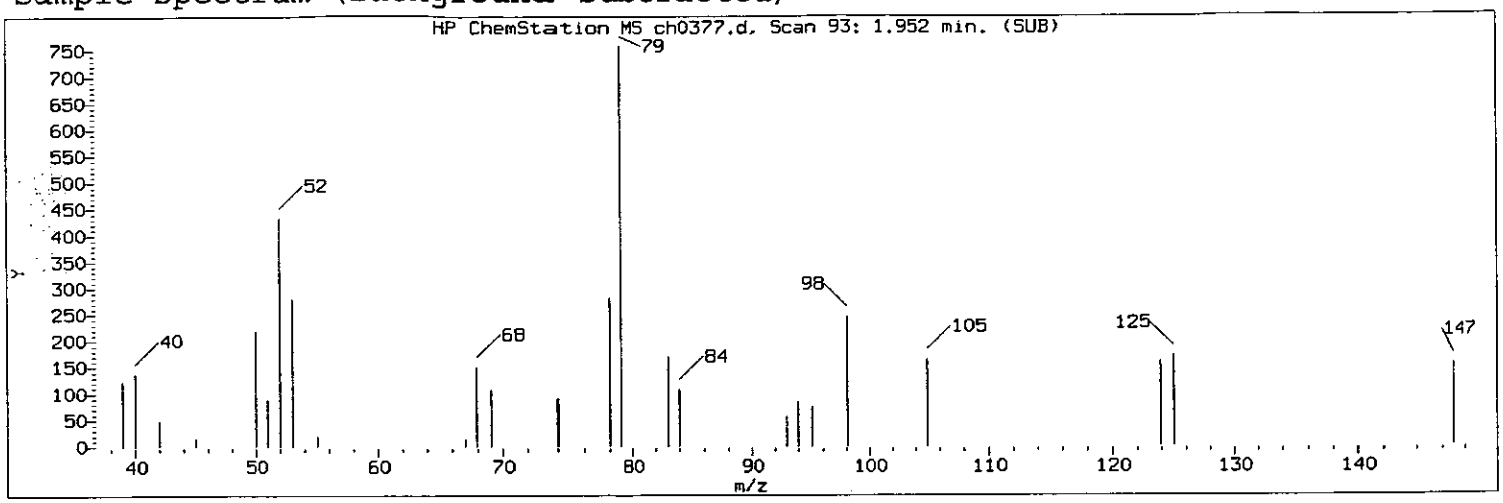
Compound Number : 3
Compound Name : Pyridine
Scan Number : 83
Retention Time (minutes): 1.891
Quant Ion : 79
Area : 211
Concentration (ng/ul) : 0.0617
Integration start scan : 80 Integration stop scan: 83
Y at integration start : 0 Y at integration end: 0

mac (13) 8/14/07

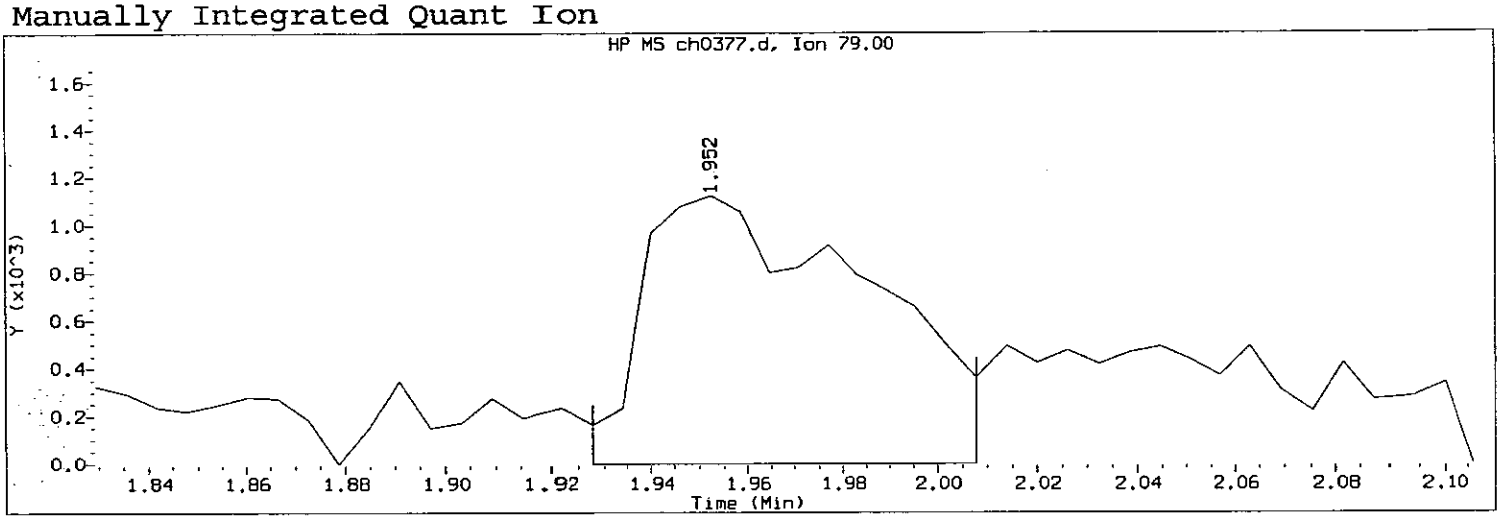
8473

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number	:	3
Compound Name	:	Pyridine
Scan Number	:	93
Retention Time (minutes)	:	1.952
Quant Ion	:	79
Area (flag)	:	3661A
Concentration (ng/ul)	:	1.0680
Integration start scan	:	88
Integration stop scan	:	101
Y at integration start	:	0
Y at integration end	:	0

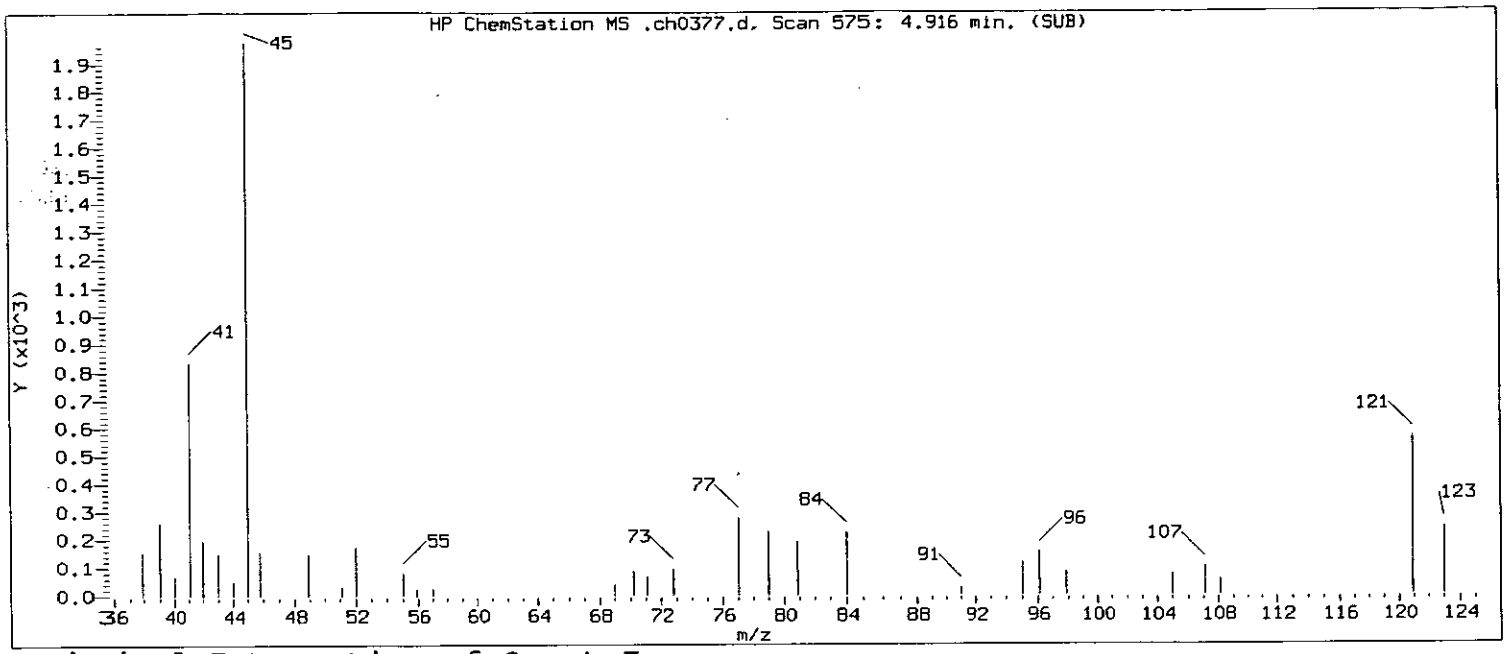
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc(3) 8/14/07

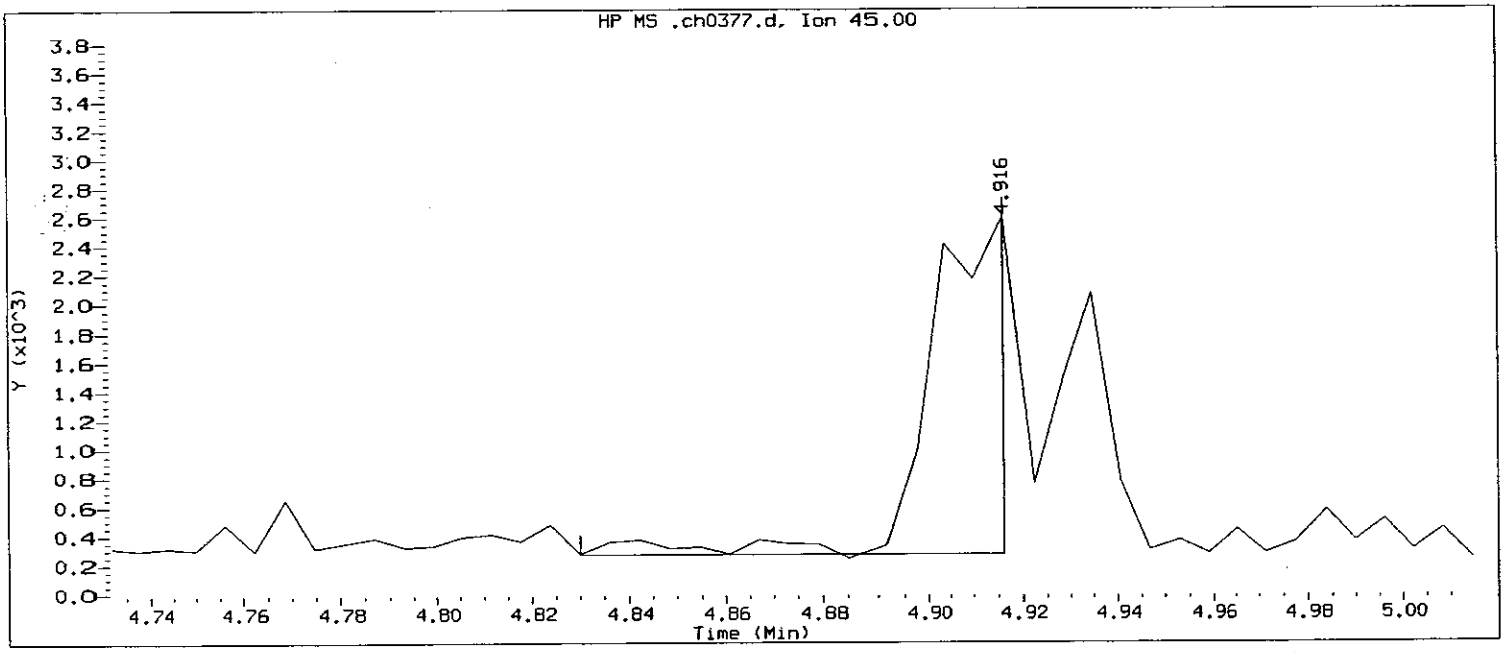
GC/MS audit/management approval: 8474 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

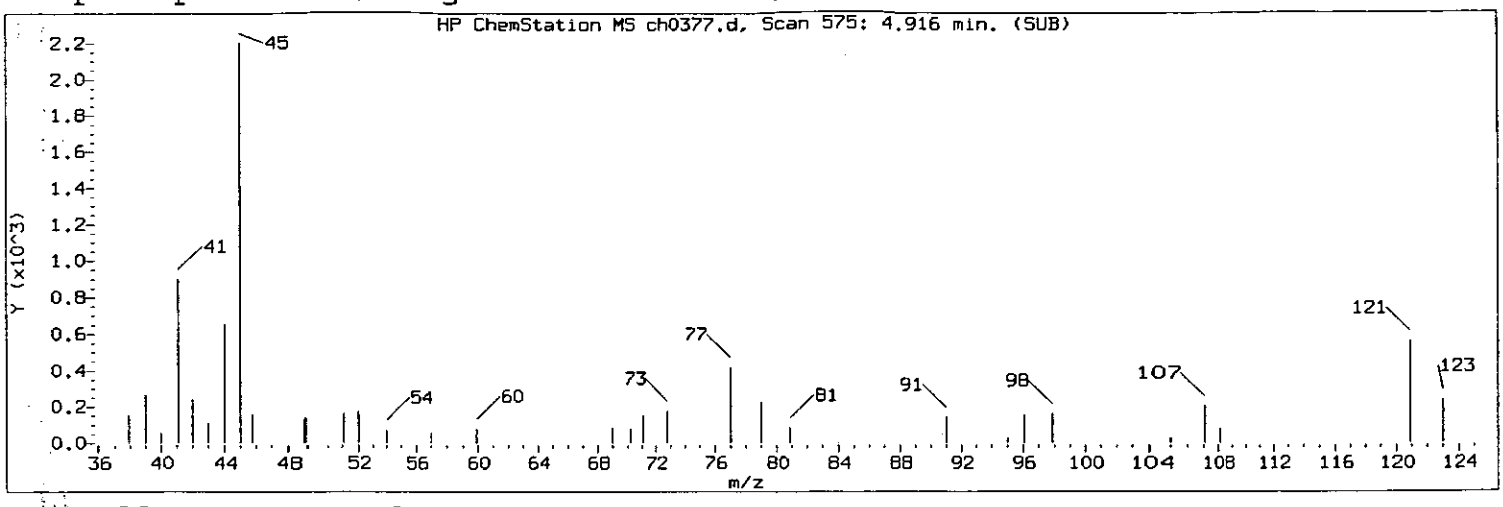
Compound Number	: 26
Compound Name	: 2,2'-oxybis(1-Chloropropane)
Scan Number	: 575
Retention Time (minutes)	: 4.916
Quant Ion	: 45
Area	: 2392
Concentration (ng/ul)	: 0.8018
Integration start scan	: 560
Integration stop scan	: 574
Y at integration start	: 271
Y at integration end	: 271

mrc (13) 8/14/07

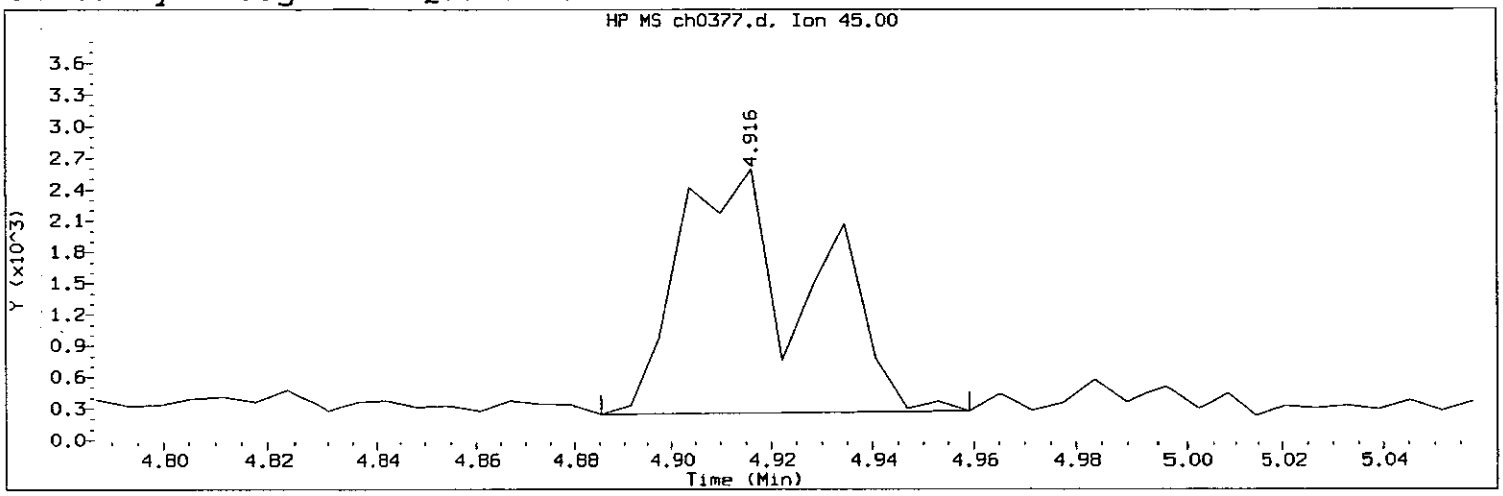
8475

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number : 26
Compound Name : 2,2'-oxybis(1-Chloropropane)
Scan Number : 575
Retention Time (minutes): 4.916
Quant Ion : 45
Area (flag) : 4207 M
Concentration (ng/ul) : 1.4099
Integration start scan : 569 Integration stop scan: 581
Y at integration start : 244 Y at integration end: 274

Reason for manual integration (circle one): missed peak improper integrati

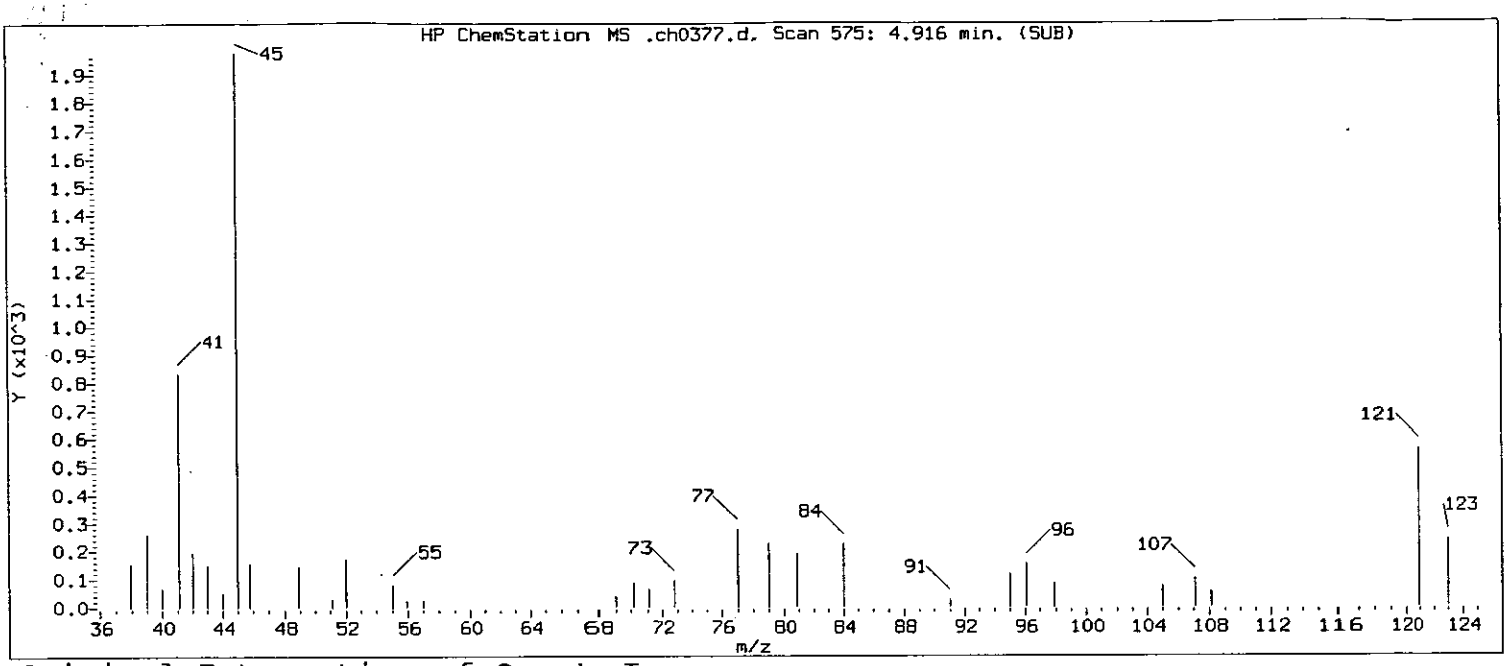
Analyst responsible for change: mac (3) 8/14/07

8476

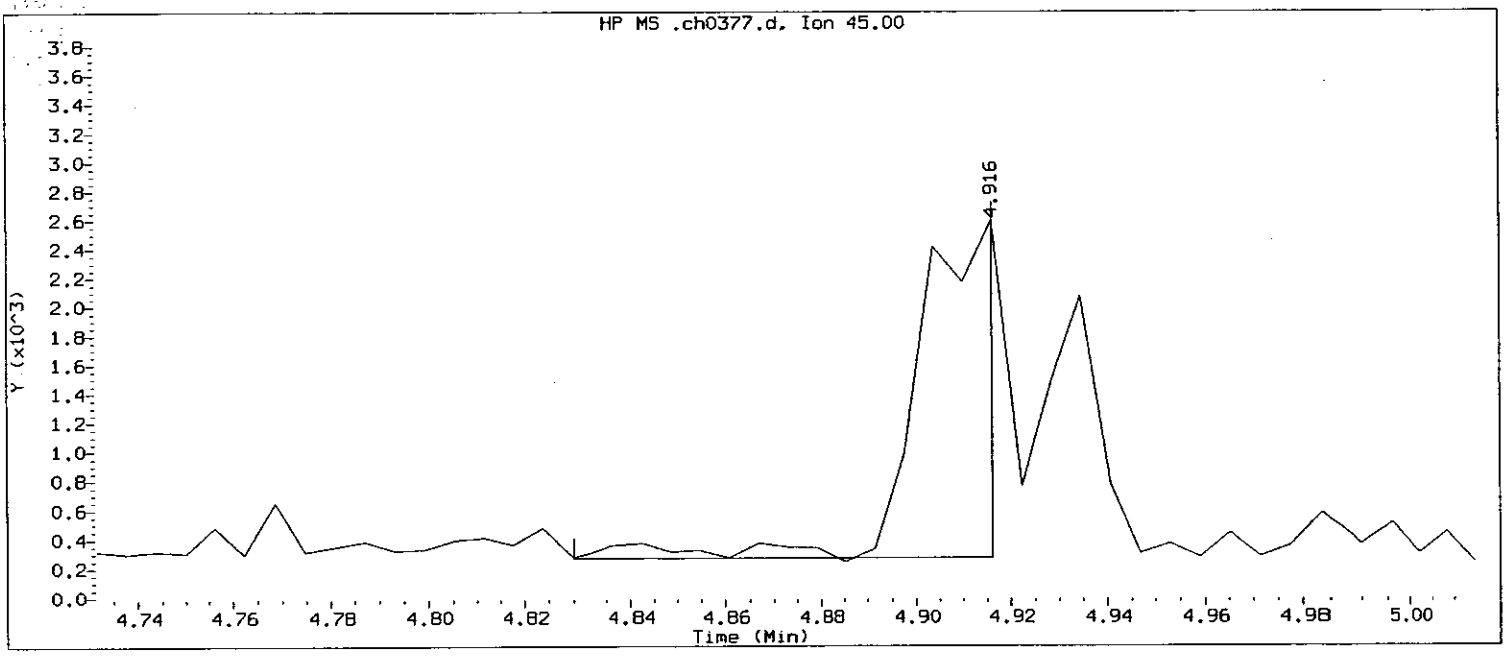
GC/MS audit/management approval: [signature] 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmhO0956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

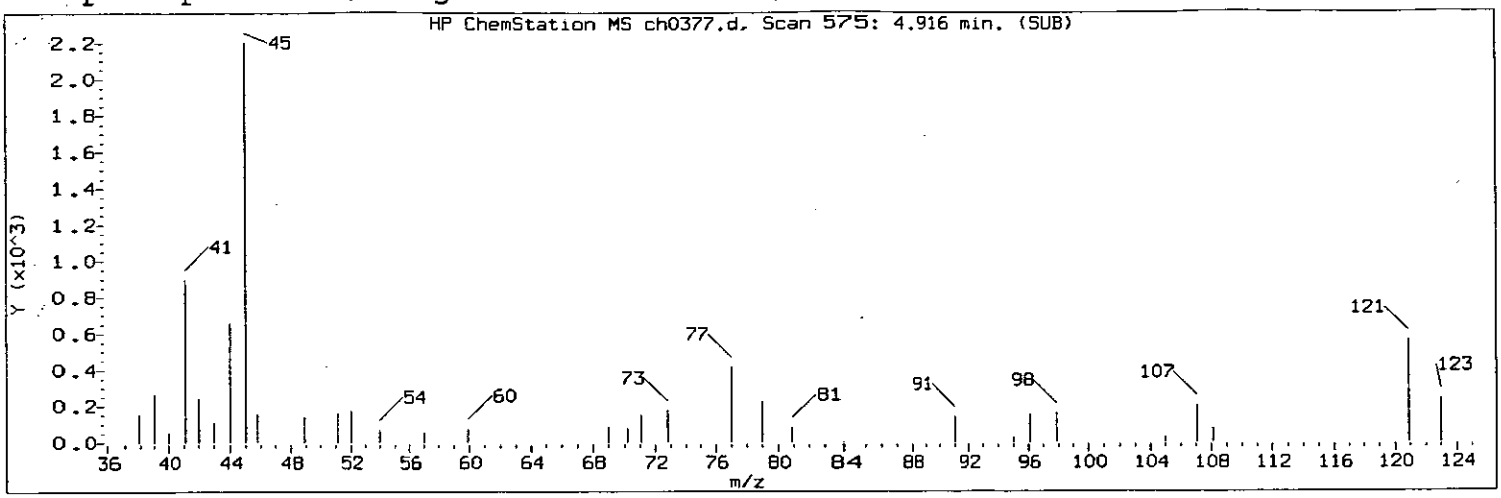
Compound Number	: 27
Compound Name	: bis(2-Chloroisopropyl)ether
Scan Number	: 575
Retention Time (minutes)	: 4.916
Quant Ion	: 45
Area	: 2392
Concentration (ng/ul)	: 0.8018
Integration start scan	: 560 Integration stop scan: 574
Y at integration start	: 271 Y at integration end: 271

mc 8/14/07

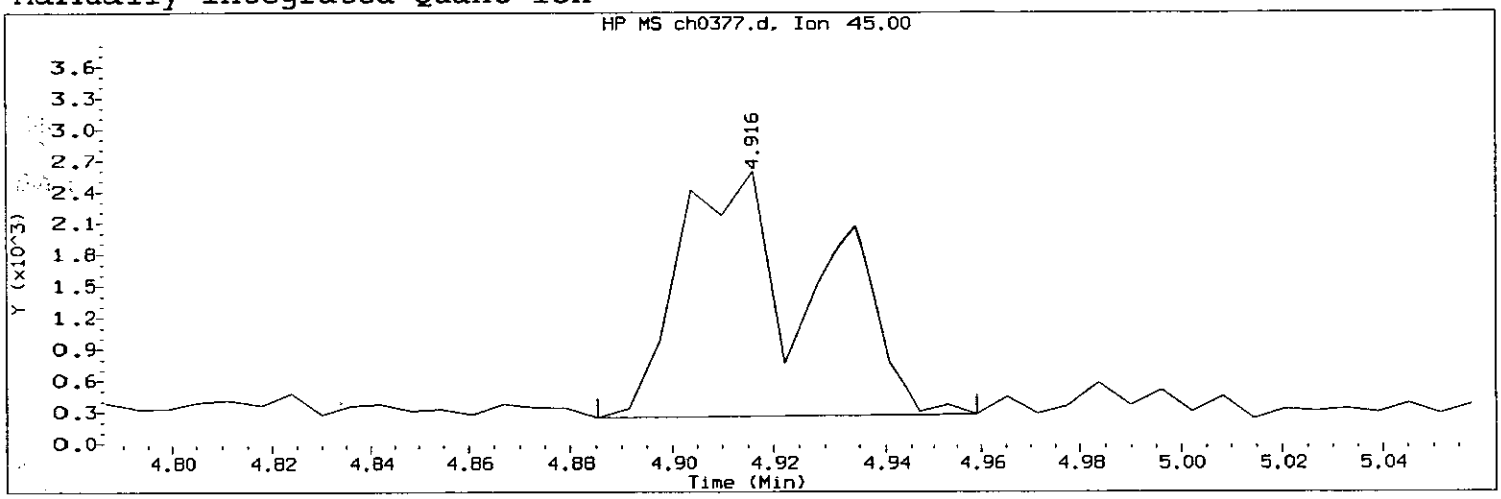
0477

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number	: 27
Compound Name	: bis(2-Chloroisopropyl)ether
Scan Number	: 575
Retention Time (minutes)	: 4.916
Quant Ion	: 45
Area (flag)	: 4207 M
Concentration (ng/ul)	: 1.4099
Integration start scan	: 569 Integration stop scan: 581
Y at integration start	: 244 Y at integration end: 274

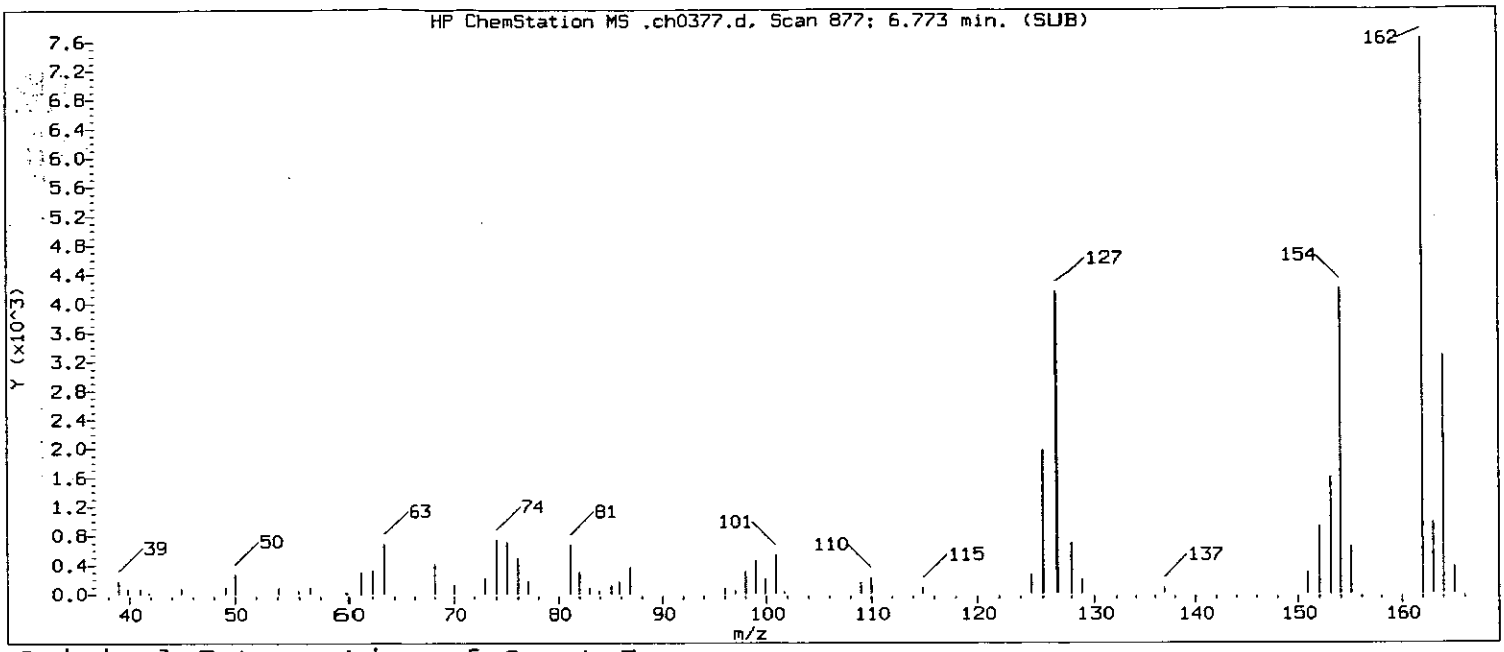
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac(13) 8/14/07

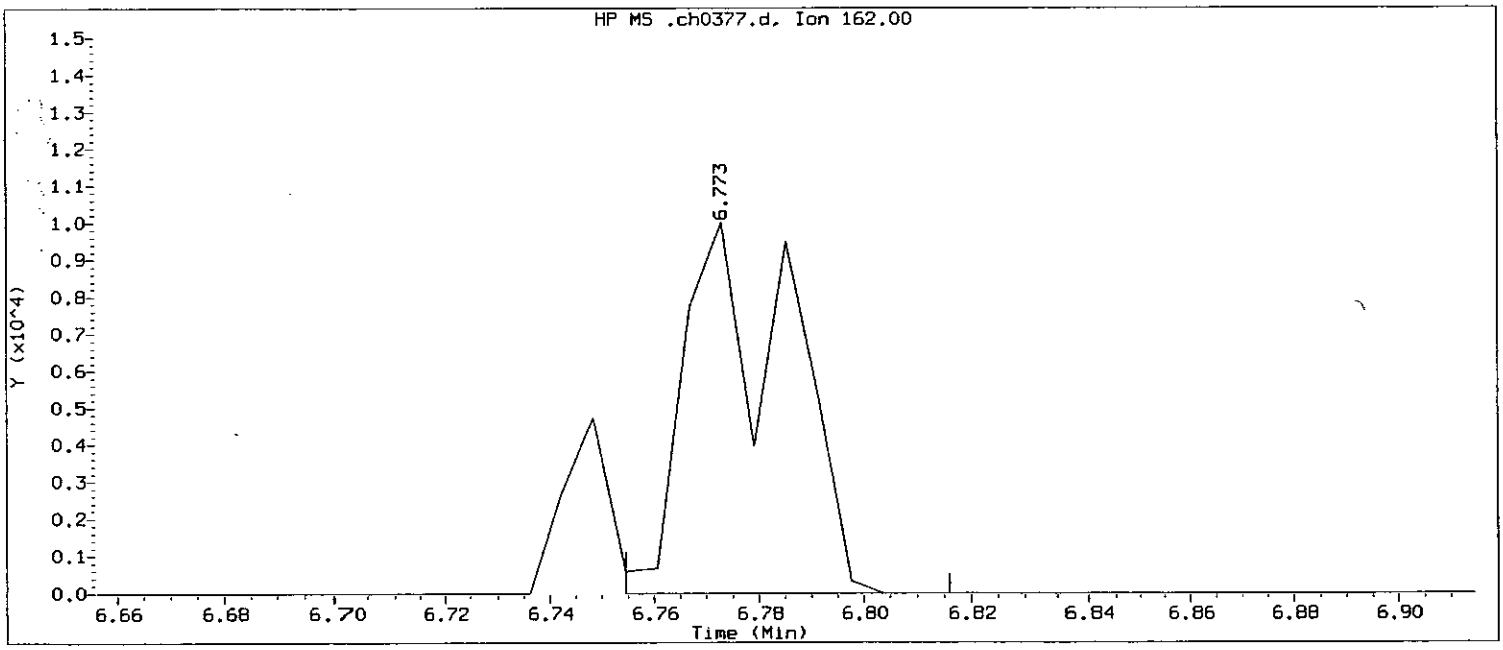
GC/MS audit/management approval: 6478 6/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

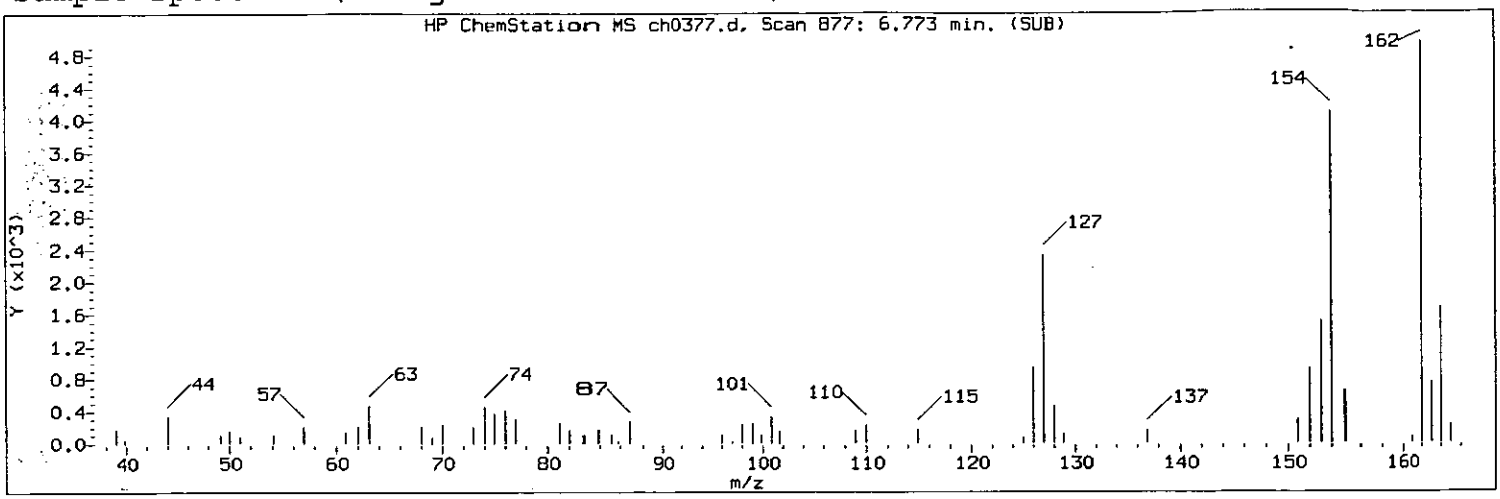
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 877
Retention Time (minutes): 6.773
Quant Ion : 162
Area : 13928
Concentration (ng/ul) : 2.1602
Integration start scan : 873 Integration stop scan: 883
Y at integration start : 0 Y at integration end: 0

mac 8/14/07

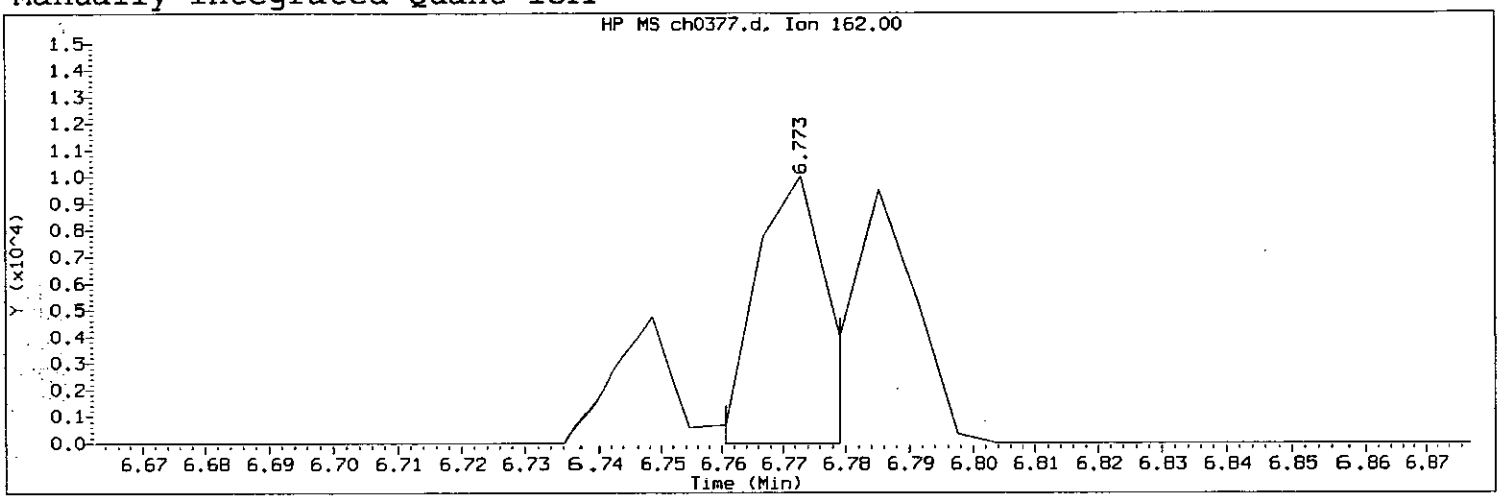
8479

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

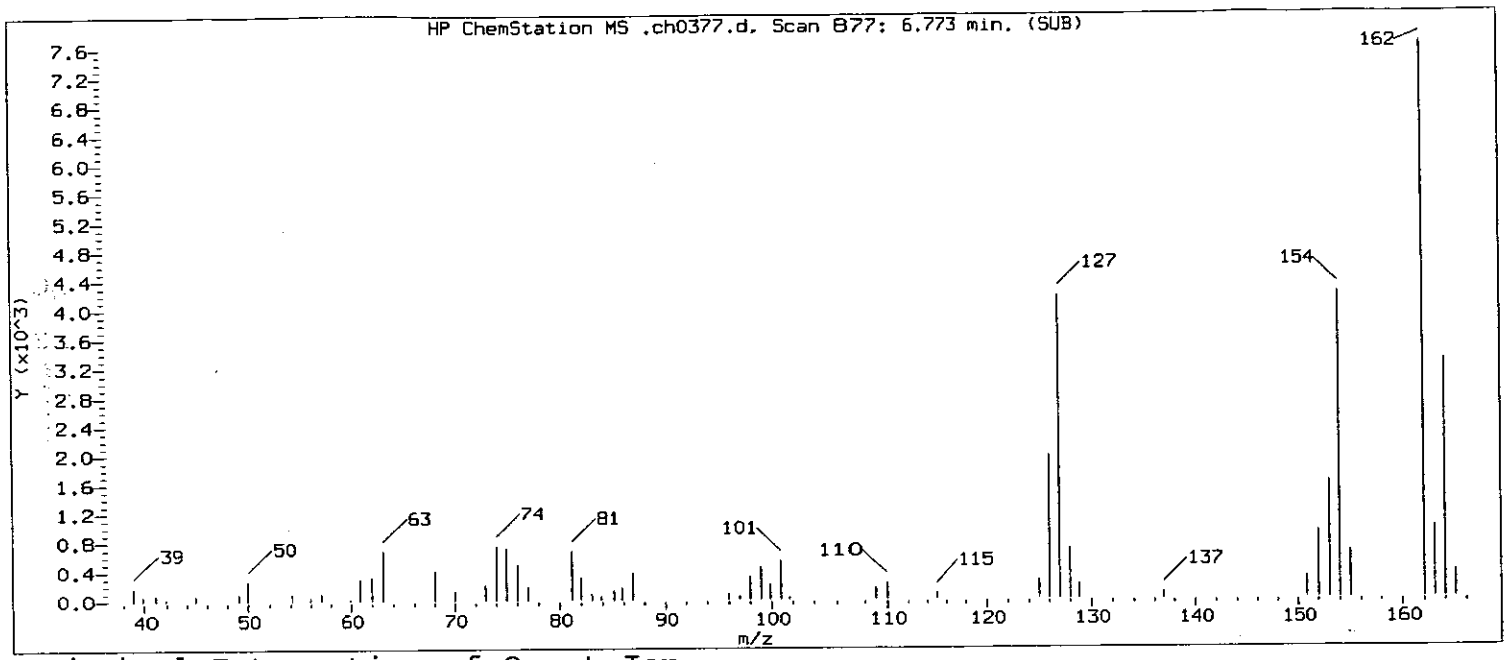
Compound Number	: 71
Compound Name	: 2-Chloronaphthalene
Scan Number	: 877
Retention Time (minutes)	: 6.773
Quant Ion	: 162
Area (flag)	: 8282 M
Concentration (ng/ul)	: 1.2845
Integration start scan	: 874 Integration stop scan: 877
Y at integration start	: -25 Y at integration end: -25

Reason for manual integration (circle one): missed peak improper integrati

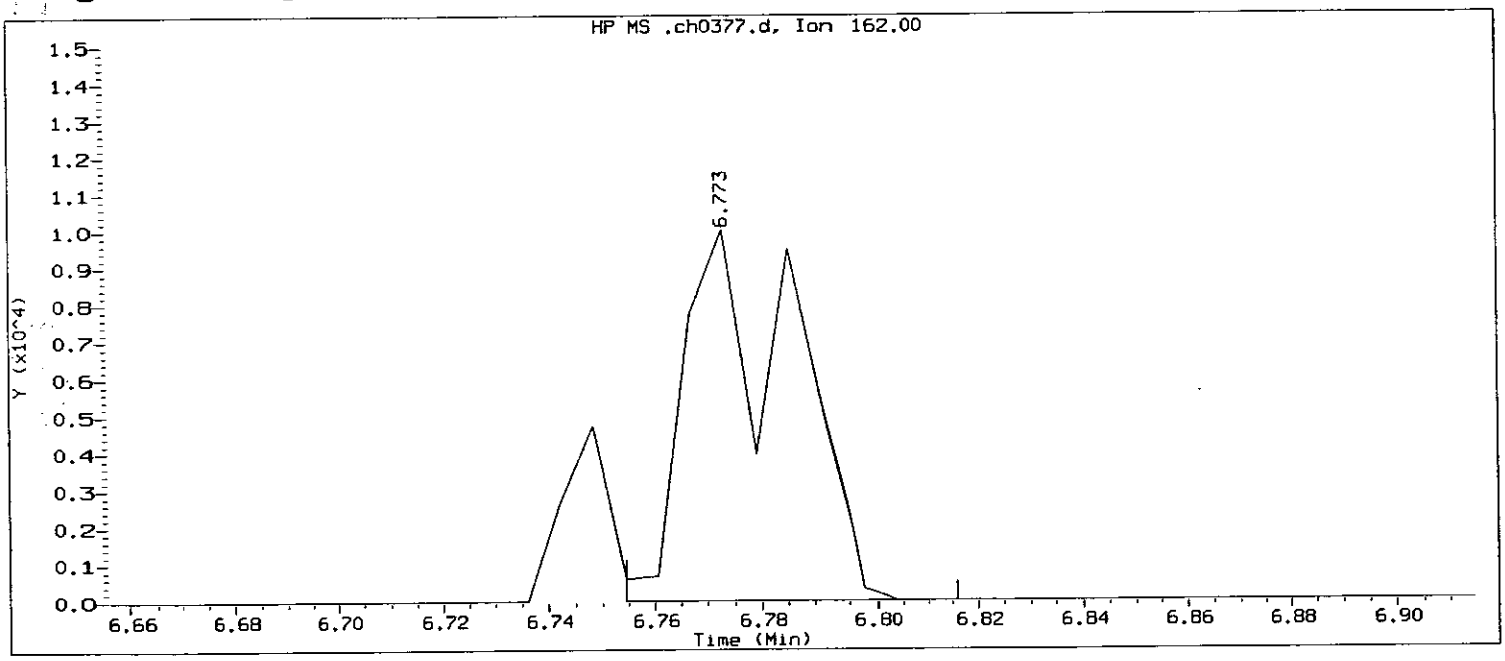
Analyst responsible for change: mac(13) 8/14/07

GC/MS audit/management approval: 0480 jm 13 8/14/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

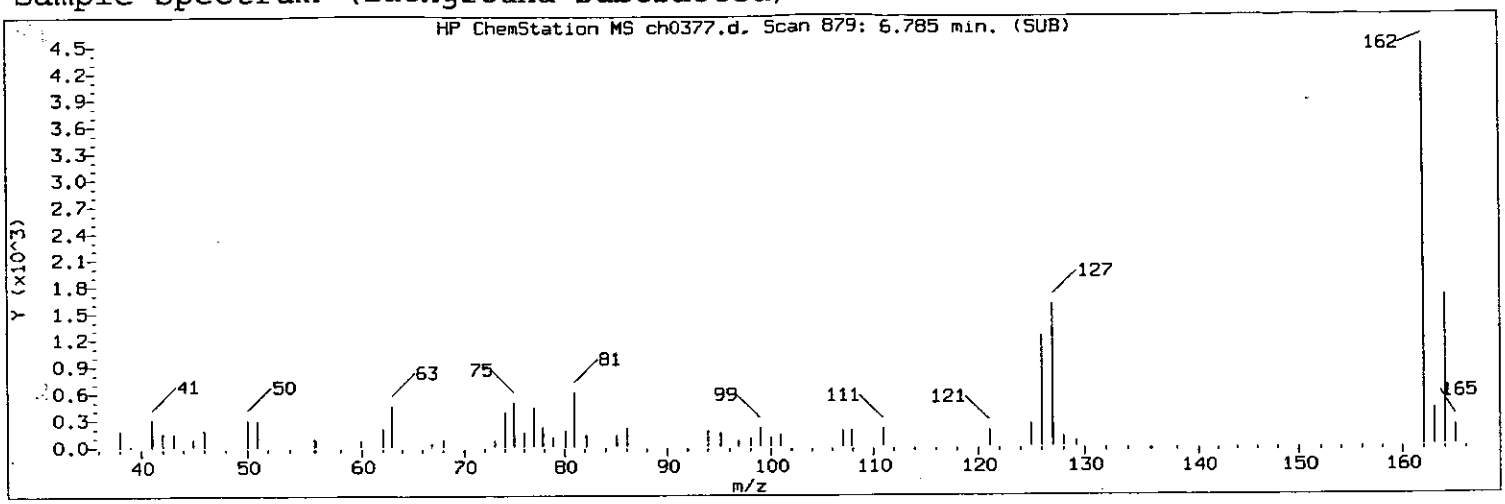
Compound Number	: 72
Compound Name	: 1-Chloronaphthalene
Scan Number	: 877
Retention Time (minutes)	: 6.773
Quant Ion	: 162
Area	: 13928
Concentration (ng/ul)	: 2.5235
Integration start scan	: 873 Integration stop scan: 883
Y at integration start	: 0 Y at integration end: 0

mc 8/14/07

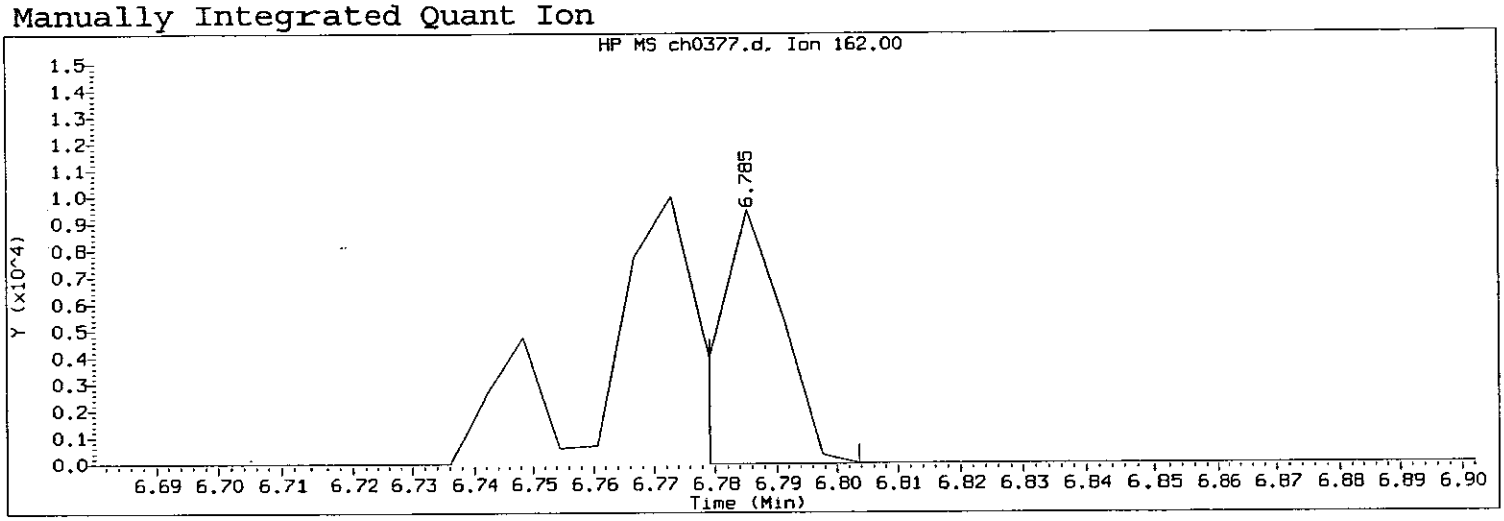
8481

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number	: 72
Compound Name	: 1-Chloronaphthalene
Scan Number	: 879
Retention Time (minutes)	: 6.785
Quant Ion	: 162
Area (flag)	: 7071 M
Concentration (ng/ul)	: 1.2812
Integration start scan	: 877 Integration stop scan: 881
Y at integration start	: -19 Y at integration end: -19

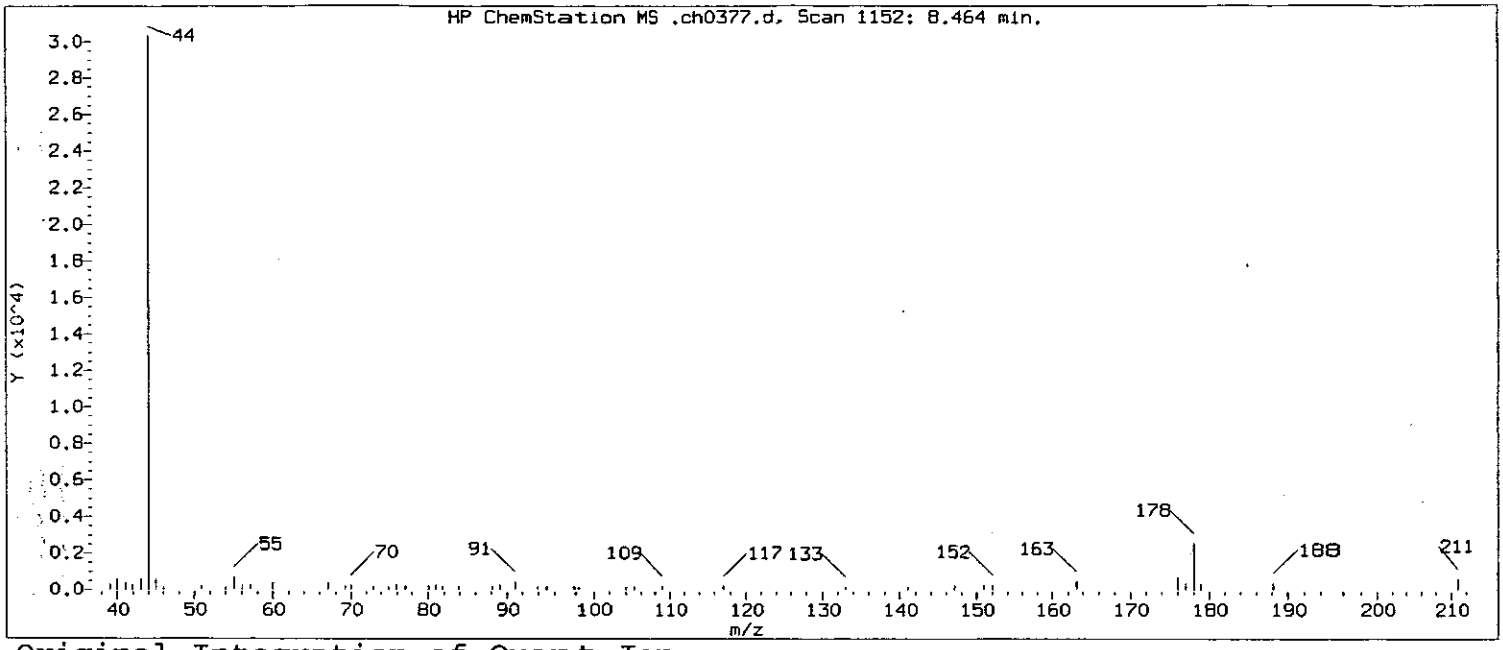
Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: mac (3) 8/14/07

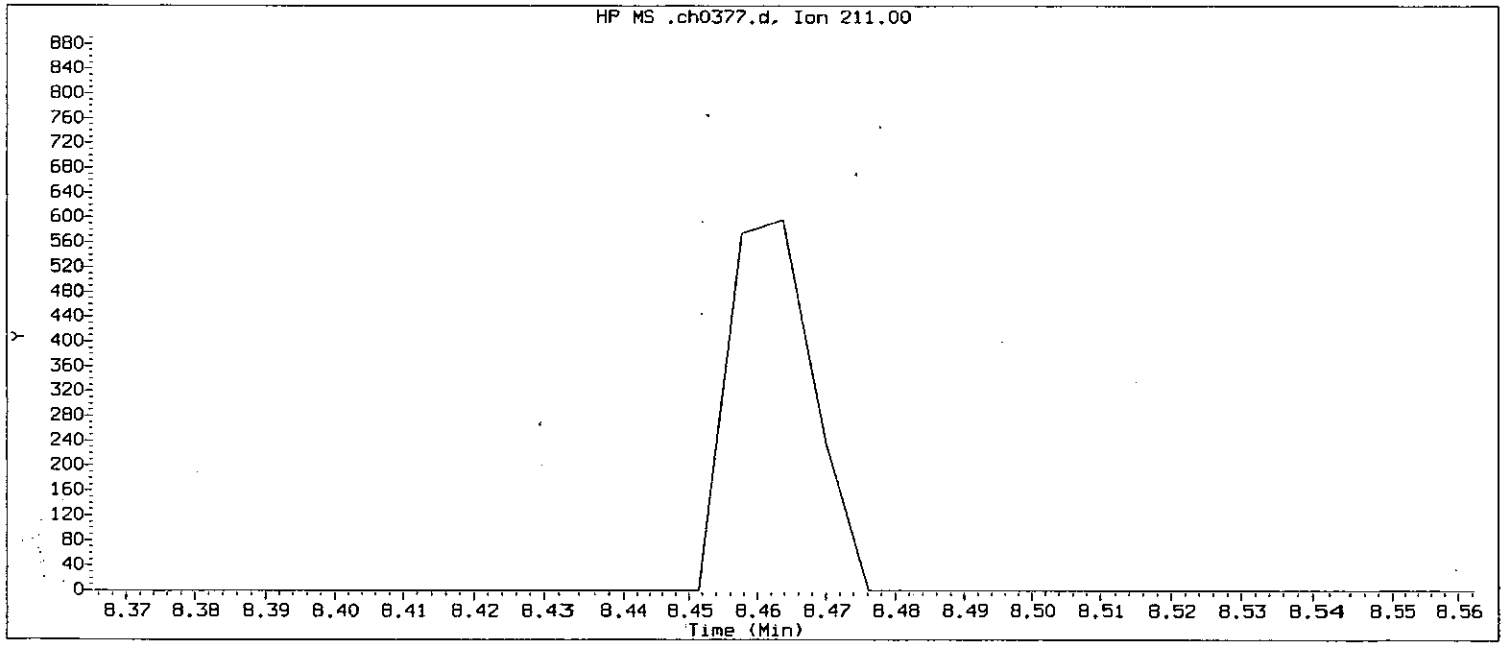
0482

GC/MS audit/management approval: [signature] 8/14/07

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

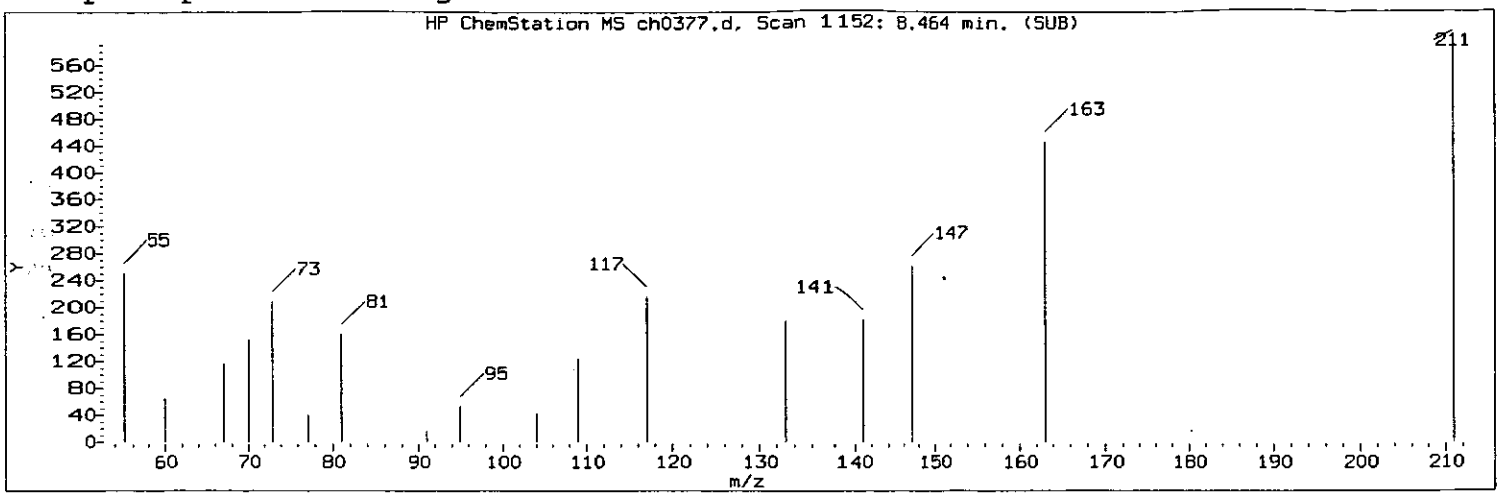
Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number : 122
Compound Name : Dinoseb
Expected RT (minutes) : 8.464
Quant Ion : 211

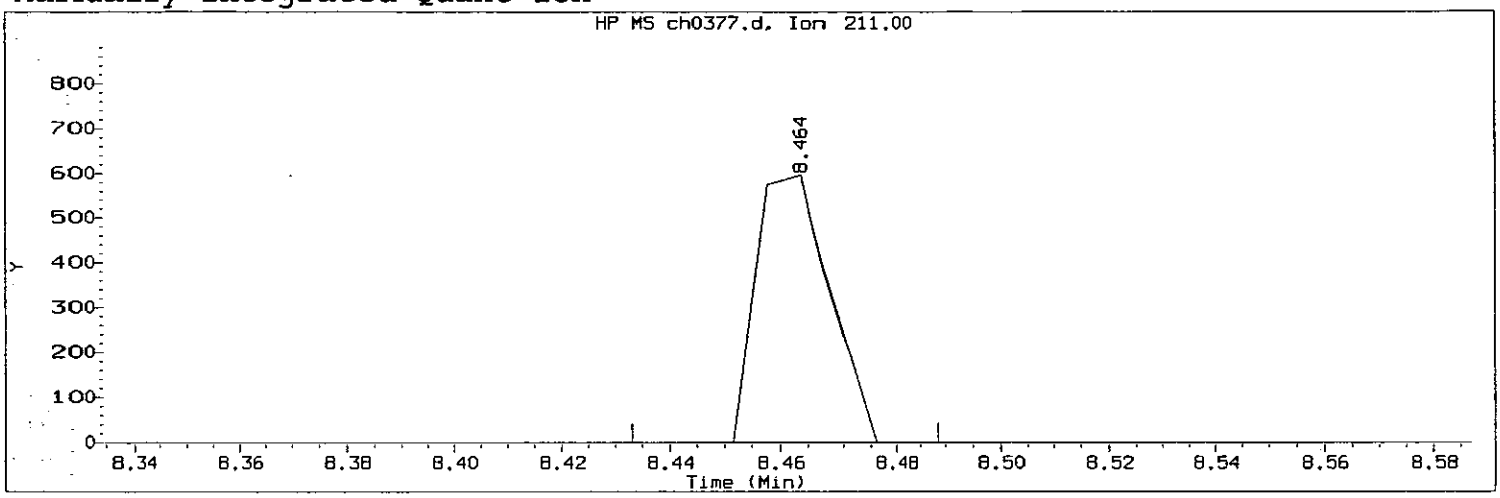
mc(13) 8/14/07

0483

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number : 122
Compound Name : Dinoseb
Scan Number : 1152
Retention Time (minutes): 8.464
Quant Ion : 211
Area (flag) : 519 M
Concentration (ng/ul) : 6.3603
Integration start scan : 1146 Integration stop scan: 1155
Y at integration start : 0 Y at integration end: 0

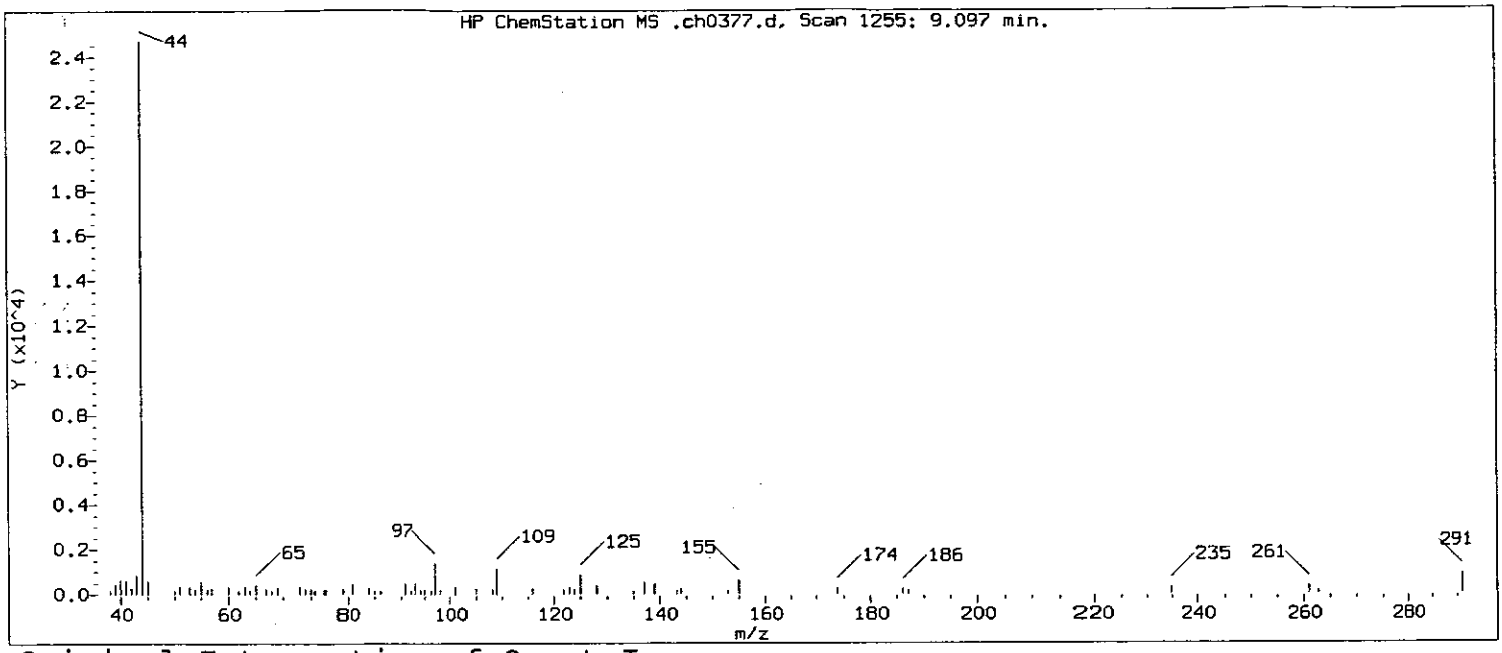
Reason for manual integration (circle one): (missed peak) improper integrati

Analyst responsible for change: mac 8/14/07

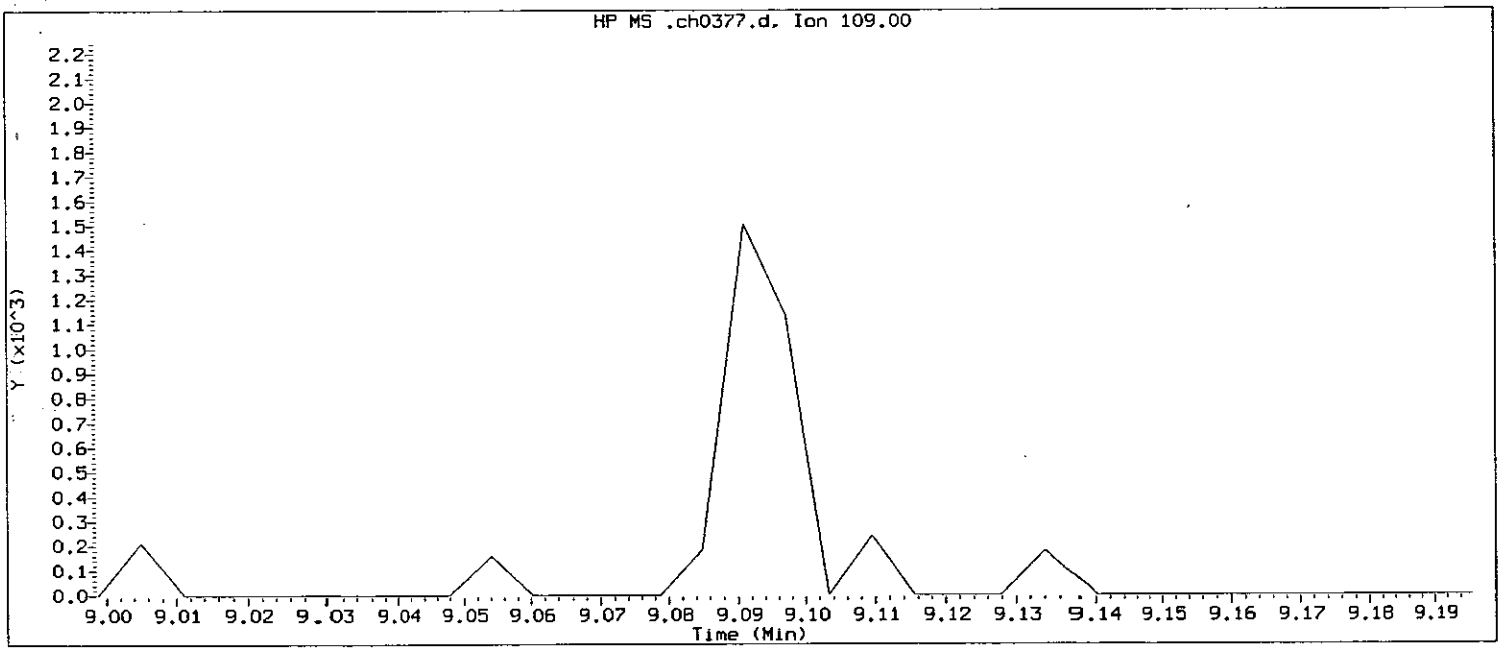
GC/MS audit/management approval: 8484 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

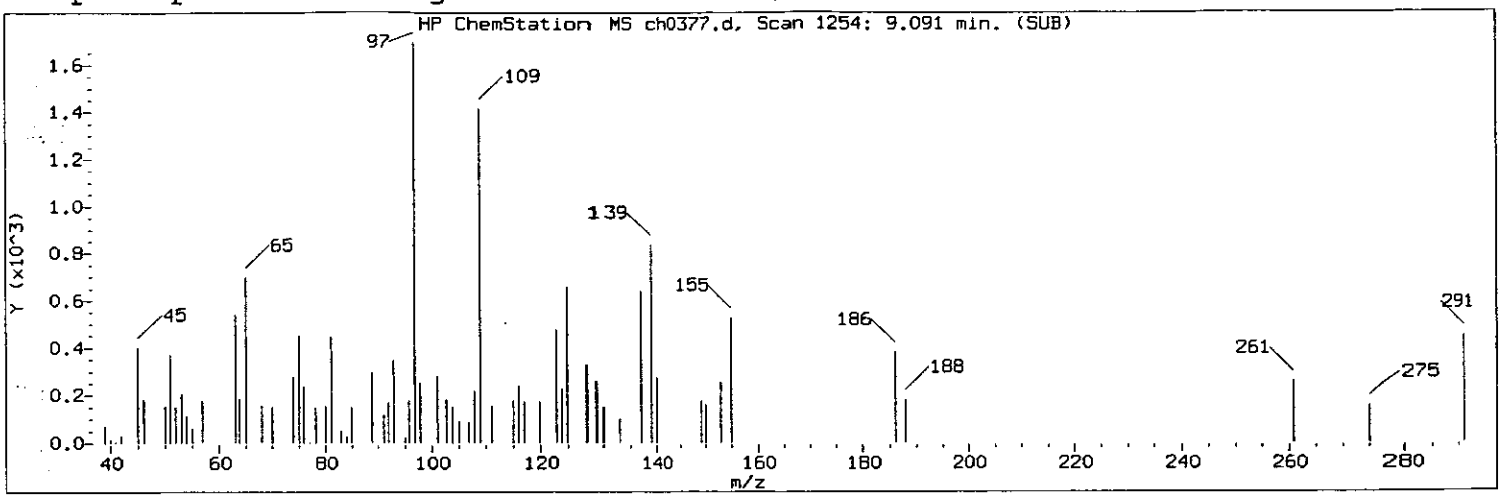
Compound Number : 129
Compound Name : Parathion
Expected RT (minutes) : 9.097
Quant Ion : 109

mc ③ 8/14/07

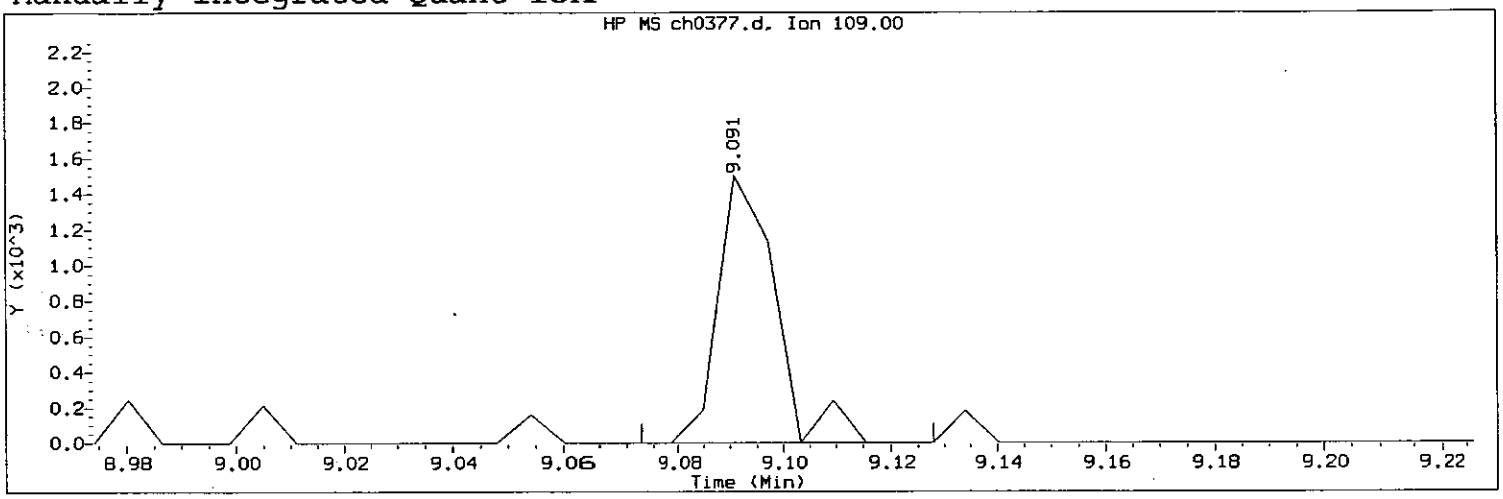
8485

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number : 129
Compound Name : Parathion
Scan Number : 1254
Retention Time (minutes): 9.091
Quant Ion : 109
Area (flag) : 1128 M
Concentration (ng/ul) : 0.9386
Integration start scan : 1250 Integration stop scan: 1259
Y at integration start : 0 Y at integration end: 0

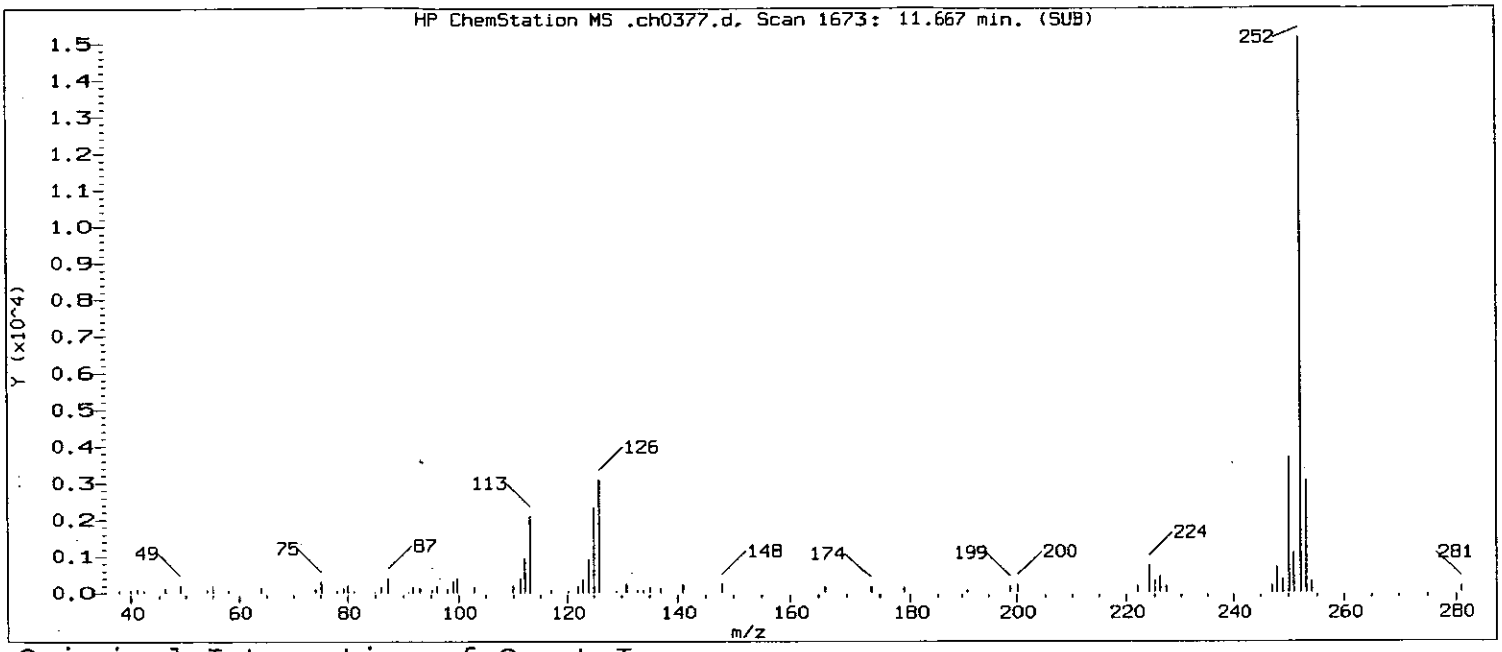
Reason for manual integration (circle one): (missed peak) improper integrati

Analyst responsible for change: mac 8/14/07

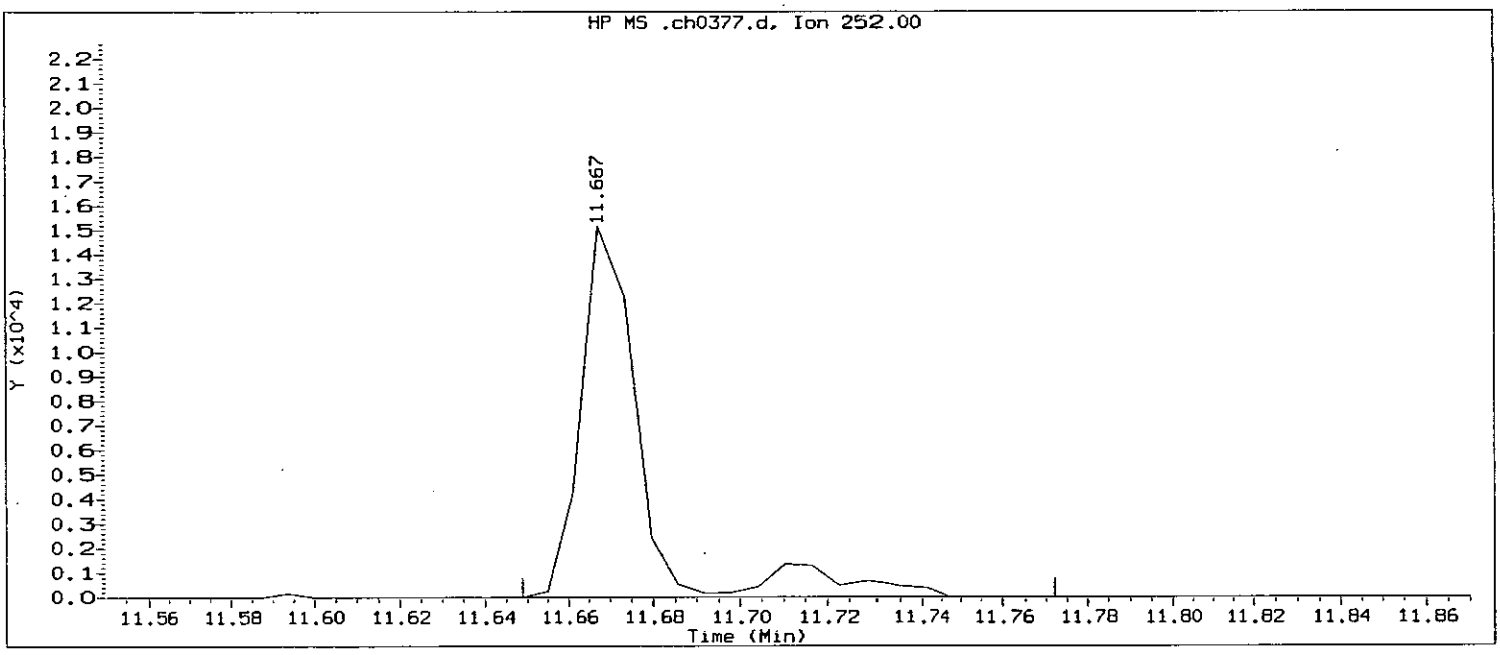
GC/MS audit/management approval: 6486 lmh 8/14/07

Manual Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:06 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

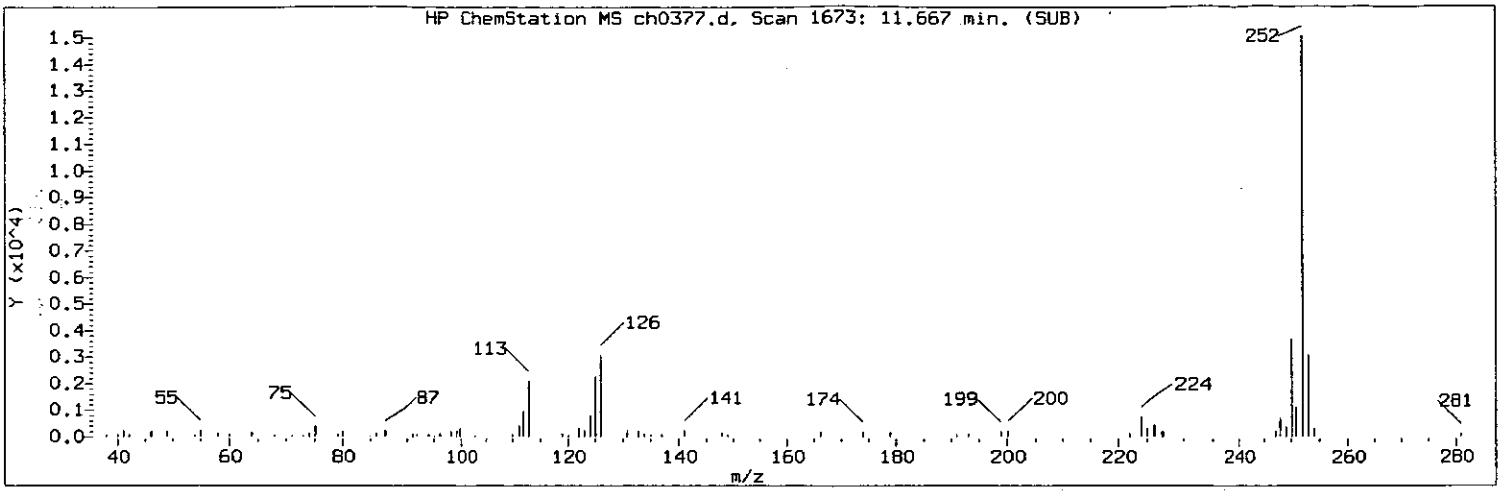
Compound Number : 160
Compound Name : Benzo(a)pyrene
Scan Number : 1673
Retention Time (minutes): 11.667
Quant Ion : 252
Area : 14832
Concentration (ng/ul) : 1.3432
Integration start scan : 1669 Integration stop scan: 1689
Y at integration start : 0 Y at integration end: 0

mac 8/14/07

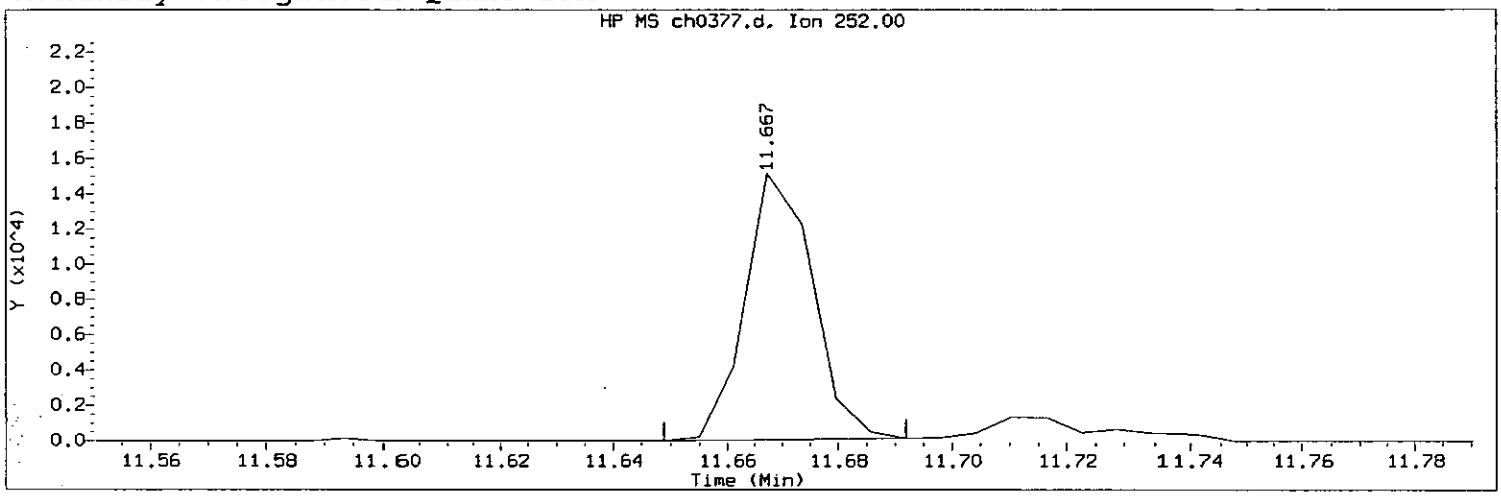
0487

Original Integration Report for data file /chem/HP10623.i/07aug13.b/ch0377.d, generated on 08/14/2007 at 04:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug13.b/ch0377.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 02:59 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:25 mac00013

Sample Name: SSTD001 Lab Sample ID: 8270MDL2187

Compound Number	:	160
Compound Name	:	Benzo(a)pyrene
Scan Number	:	1673
Retention Time (minutes)	:	11.667
Quant Ion	:	252
Area (flag)	:	12687 M
Concentration (ng/ul)	:	1.1489
Integration start scan	:	1669 Integration stop scan: 1676
Y at integration start	:	0 Y at integration end: 154

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mac(13) 8/14/07

GC/MS audit/management approval: 0488 bmm 8/14/07

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0378.d

ICV SAMPLE ID: ICV1387 BATCH: 07AUG13026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	50.00	45.81	-8	20	YES
N-Nitrosodimethylamine	50.00	53.57	7	20	YES
Pyridine	50.00	48.48	-3	20	YES
2-Picoline	50.00	46.28	-7	20	YES
2-Fluorophenol	50.00	48.22	-4	20	YES
Phenol-d5	50.00	48.36	-3	20	YES
Phenol-d6	50.00	48.36	-3	20	YES
Phenol	50.00	48.97	-2	20	YES
Aniline	50.00	44.88	-10	20	YES
bis(2-Chloroethyl)ether	50.00	49.69	-1	20	YES
2-Chlorophenol	50.00	48.79	-2	20	YES
1,3-Dichlorobenzene	50.00	48.75	-3	20	YES
1,4-Dichlorobenzene	50.00	50.00	0	20	YES
Benzyl alcohol	50.00	47.03	-6	20	YES
1,2-Dichlorobenzene	50.00	48.26	-3	20	YES
2-Methylphenol	50.00	46.15	-8	20	YES
2,2'-oxybis(1-Chloropropane	50.00	59.83	20	20	YES
bis(2-Chloroisopropyl)ether	50.00	59.83	20	20	YES
Acetophenone	50.00	49.18	-2	20	YES
N-Nitroso-di-n-propylamine	50.00	48.84	-2	20	YES
4-Methylphenol	50.00	47.30	-5	20	YES
o-Toluidine	50.00	47.40	-5	20	YES
Hexachloroethane	50.00	50.00	0	20	YES
Nitrobenzene-d5	50.00	47.99	-4	20	YES
Nitrobenzene	50.00	47.32	-5	20	YES
Isophorone	50.00	43.71	-13	20	YES
2-Nitrophenol	50.00	53.29	7	20	YES
2,4-Dimethylphenol	50.00	48.66	-3	20	YES
bis(2-Chloroethoxy)methane	50.00	57.21	14	20	YES
Benzoic acid	50.00	54.38	9	20	YES
2,4-Dichlorophenol	50.00	49.62	-1	20	YES
1,2,4-Trichlorobenzene	50.00	49.90	0	20	YES
Naphthalene	50.00	49.90	0	20	YES
4-Chloroaniline	50.00	50.84	2	20	YES
2,6-Dichlorophenol	50.00	48.22	-4	20	YES
Hexachlorobutadiene	50.00	50.02	0	20	YES
Quinoline	50.00	50.64	1	20	YES

NC = Could not calculate

Comments: MC(3) 8/14/07
RHK 1975 8/14/07

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

Method: SW-846 8270C File ID: ch0378.d

ICV SAMPLE ID: ICV1387 BATCH: 07AUG13026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Caprolactam	50.00	49.49	-1	20	YES
4-Chloro-3-methylphenol	50.00	51.31	3	20	YES
2-Methylnaphthalene	50.00	48.71	-3	20	YES
1-Methylnaphthalene	50.00	48.00	-4	20	YES
Hexachlorocyclopentadiene	100.00	129.15	29	20	NO
1,2,4,5-Tetrachlorobenzene	50.00	49.26	-1	20	YES
2,4,6-Trichlorophenol	50.00	50.87	2	20	YES
2,4,5-Trichlorophenol	50.00	48.67	-3	20	YES
2-Fluorobiphenyl	50.00	48.92	-2	20	YES
Biphenyl	50.00	49.98	0	20	YES
Diphenyl	50.00	49.98	0	20	YES
1,1'-Biphenyl	50.00	49.98	0	20	YES
2-Chloronaphthalene	50.00	39.25	-21	20	NO
Diphenyl ether	50.00	47.19	-6	20	YES
2-Nitroaniline	50.00	50.33	1	20	YES
Dimethylphthalate	50.00	49.76	0	20	YES
2,6-Dinitrotoluene	50.00	50.94	2	20	YES
Acenaphthylene	50.00	56.84	14	20	YES
3-Nitroaniline	50.00	49.65	-1	20	YES
Acenaphthene	50.00	50.64	1	20	YES
2,4-Dinitrophenol	50.00	45.20	-10	20	YES
Pentachlorobenzene	50.00	50.95	2	20	YES
4-Nitrophenol	50.00	50.25	0	20	YES
Dibenzofuran	50.00	48.89	-2	20	YES
2,4-Dinitrotoluene	50.00	50.26	1	20	YES
1-Naphthylamine	50.00	48.39	-3	20	YES
2,3,4,6-Tetrachlorophenol	50.00	51.71	3	20	YES
2-Naphthylamine	50.00	45.21	-10	20	YES
Diethylphthalate	50.00	49.08	-2	20	YES
Fluorene	50.00	50.49	1	20	YES
4-Chlorophenyl-phenylether	50.00	50.18	0	20	YES
4-Nitroaniline	50.00	49.70	-1	20	YES
4,6-Dinitro-2-methylphenol	50.00	48.28	-3	20	YES
N-Nitrosodiphenylamine	50.00	48.64	-3	20	YES
1,2-Diphenylhydrazine	50.00	51.49	3	20	YES
2,4,6-Tribromophenol	50.00	49.09	-2	20	YES
Phorate	50.00	49.91	0	20	YES

NC = Could not calculate

Comments: _____

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP10623

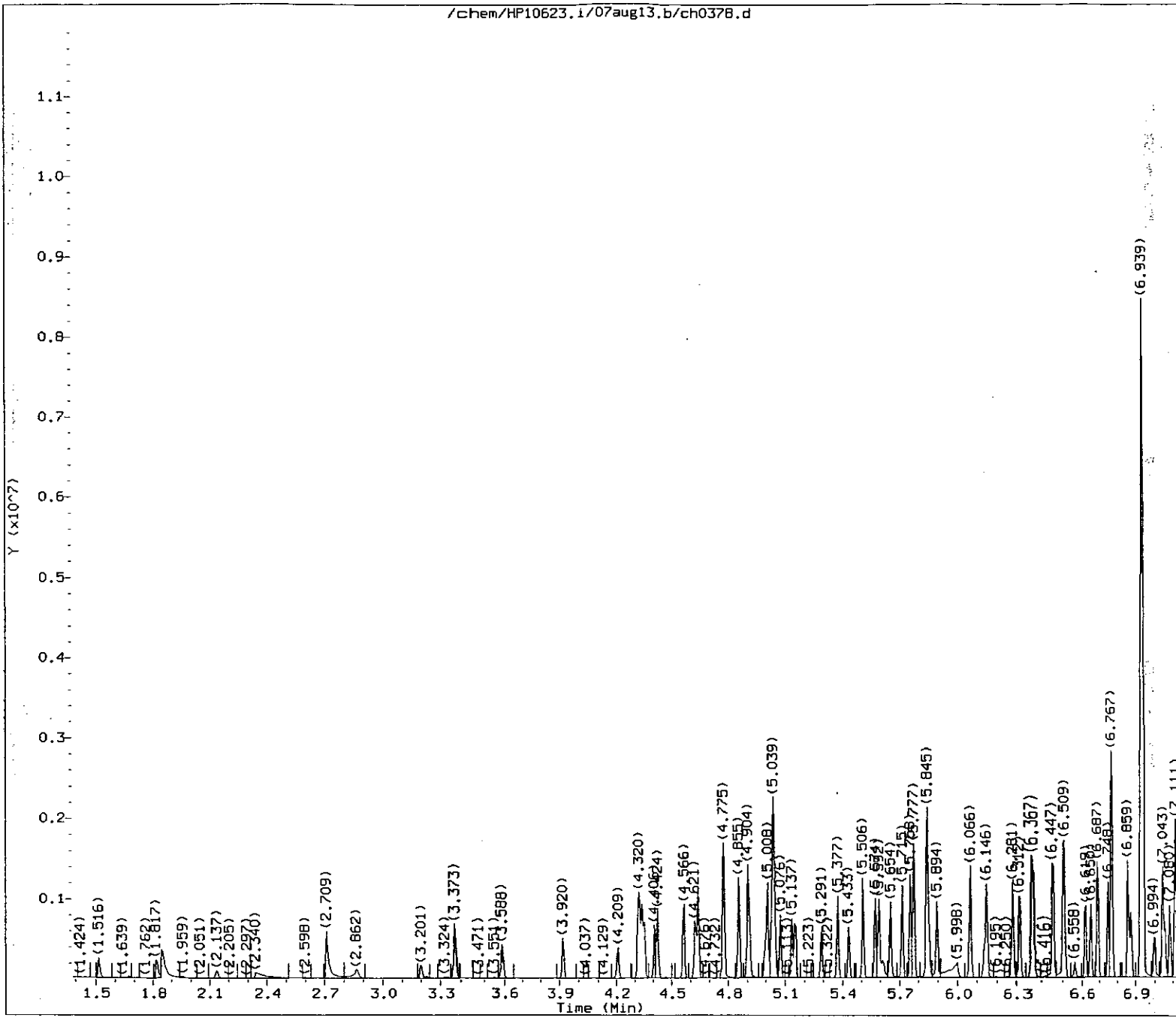
Method: SW-846 8270C File ID: ch0378.d

ICV SAMPLE ID: ICV1387 BATCH: 07AUG13026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
4-Bromophenyl-phenylether	50.00	51.34	3	20	YES
Hexachlorobenzene	50.00	51.14	2	20	YES
Pentachlorophenol	50.00	49.30	-1	20	YES
Phenanthrene	50.00	50.78	2	20	YES
Dinoseb	50.00	49.71	-1	20	YES
Anthracene	50.00	50.37	1	20	YES
Carbazole	50.00	51.26	3	20	YES
Methyl parathion	50.00	51.81	4	20	YES
Di-n-butylphthalate	50.00	51.03	2	20	YES
Parathion	50.00	52.33	5	20	YES
Fluoranthene	50.00	47.10	-6	20	YES
Benzidine	250.00	234.33	-6	20	YES
Pyrene	50.00	52.00	4	20	YES
Terphenyl-d14	50.00	51.37	3	20	YES
Butylbenzylphthalate	50.00	52.17	4	20	YES
3,3'-Dichlorobenzidine	50.00	49.67	-1	20	YES
Benzo(a)anthracene	50.00	51.58	3	20	YES
4,4'-Methylenebis(2-Chloroa	50.00	47.35	-5	20	YES
Chrysene	50.00	49.96	0	20	YES
bis(2-Ethylhexyl)phthalate	50.00	50.32	1	20	YES
6-Methylchrysene	50.00	51.71	3	20	YES
Di-n-octylphthalate	50.00	50.01	0	20	YES
7,12-Dimethylbenz[a]anthrac	50.00	46.94	-6	20	YES
Benzo(b)fluoranthene	50.00	45.80	-8	20	YES
Benzo(k)fluoranthene	50.00	50.64	1	20	YES
Benzo(a)pyrene	50.00	49.71	-1	20	YES
3-Methylcholanthrene	50.00	47.92	-4	20	YES
Dibenz(a,h)acridine	50.00	49.53	-1	20	YES
Dibenz(a,j)acridine	50.00	50.87	2	20	YES
Indeno(1,2,3-cd)pyrene	50.00	47.52	-5	20	YES
Dibenz(a,h)anthracene	50.00	50.68	1	20	YES
Benzo(g,h,i)perylene	50.00	48.84	-2	20	YES

NC = Could not calculate

Comments: _____



Quant Report

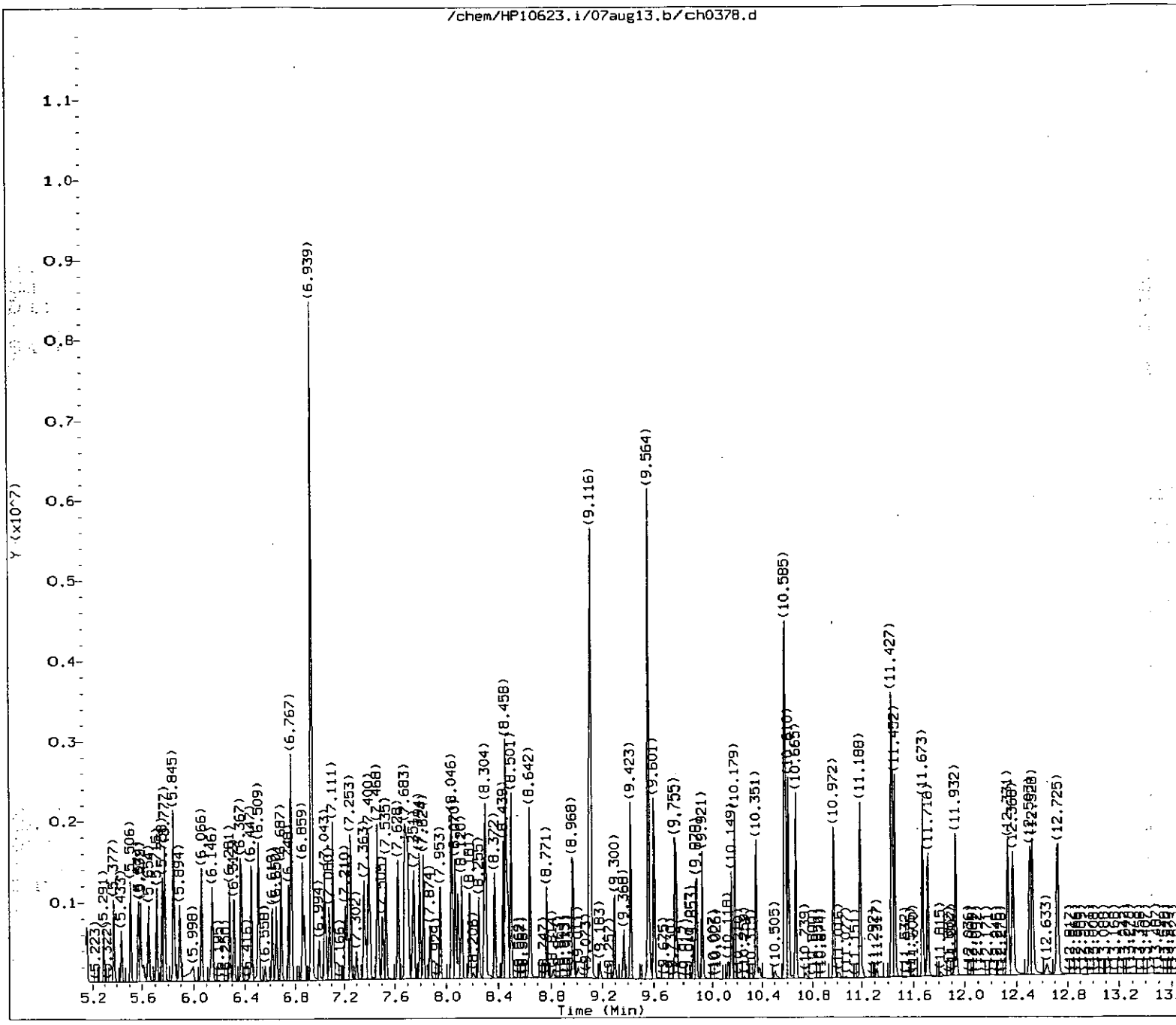
Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0378.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 03:19 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:11 mac00013

Sample Name: SSTD050 Lab Sample ID: ICV1387

8492
mc (3) 8/14/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0378.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 03:19 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:11 mac00013

Sample Name: SSTD050 Lab Sample ID: ICV1387

mc 8/14/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0378.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 03:19 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:11 mac00013

Sample Name: SSTD050 Lab Sample ID: ICV1387

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.516	88	69007	45.8131
2)	N-Nitrosodimethylamine	(1)	1.817	74	120702	53.5680
3)	Pyridine	(1)	1.854	79	208580	48.4842
5)	2-Picoline	(1)	2.709	93	190874	46.2778
15)	Phenol	(1)	4.338	94	246136	48.9720
16)	Aniline	(1)	4.320	93	286403	44.8844
18)	bis(2-Chloroethyl)ether	(1)	4.406	93	185997	49.6886
19)	2-Chlorophenol	(1)	4.424	128	181613	48.7864
20)	1,3-Dichlorobenzene	(1)	4.566	146	189015	48.7456
21)	1,4-Dichlorobenzene-d4	(1)	4.621	152	96365	40.0000
22)	1,4-Dichlorobenzene	(1)	4.639	146	197320	49.9962
23)	Benzyl alcohol	(1)	4.775	108	123977	47.0260
24)	1,2-Dichlorobenzene	(1)	4.775	146	179658	48.2567
25)	2-Methylphenol	(1)	4.904	108	169067	46.1509
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.916	45	224081	59.8333
27)	bis(2-Chloroisopropyl)ether	(1)	4.916	45	224081	59.8333
29)	Acetophenone	(1)	5.008	105	260197	49.1837
30)	N-Nitroso-di-n-propylamine	(1)	5.027	70	130074	48.8397
31)	4-Methylphenol	(1)	5.045	108	198816	47.3038
33)	o-Toluidine	(1)	5.039	106	288425	47.4036
34)	Hexachloroethane	(1)	5.076	117	67074	50.0032
36)	Nitrobenzene	(2)	5.150	77	188092	47.3233
38)	Isophorone	(2)	5.377	82	321823	43.7128
39)	2-Nitrophenol	(2)	5.433	139	102313	53.2871
40)	2,4-Dimethylphenol	(2)	5.506	107	182700	48.6562
42)	bis(2-Chloroethoxy)methane	(2)	5.592	93	219237	57.2105
43)	Benzoic acid	(2)	5.611	105	123043	54.3793
44)	2,4-Dichlorophenol	(2)	5.654	162	151538	49.6244
45)	1,2,4-Trichlorobenzene	(2)	5.715	180	152754	49.9027
46)	Naphthalene-d8	(2)	5.758	136	419298	40.0000
47)	Naphthalene	(2)	5.777	128	558892	49.9037
48)	4-Chloroaniline	(2)	5.845	127	245094	50.8438
49)	2,6-Dichlorophenol	(2)	5.845	162	143463	48.2179
51)	Hexachlorobutadiene	(2)	5.894	225	70375	50.0155
52)	Quinoline	(2)	6.066	129	387023	50.6418
53)	Caprolactam	(2)	6.140	113	68676	49.4941
55)	4-Chloro-3-methylphenol	(2)	6.281	107	171488	51.3143
58)	2-Methylnaphthalene	(2)	6.367	142	368526	48.7062
60)	1-Methylnaphthalene	(2)	6.447	142	349389	48.0039
61)	Hexachlorocyclopentadiene	(3)	6.502	237	137431	129.1483
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.509	216	142174	49.2629
64)	2,4,6-Trichlorophenol	(3)	6.619	196	108827	50.8748
65)	2,4,5-Trichlorophenol	(3)	6.650	196	120835	48.6661

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0378.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 03:19 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:11 mac00013

Sample Name: SSTD050 Lab Sample ID: ICV1387

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.767	154	458437	49.9843
69)	Diphenyl	(3)	6.767	154	458437	49.9843
70)	1,1'-Biphenyl	(3)	6.767	154	458437	49.9843
71)	2-Chloronaphthalene	(3)	6.773	162	344931	39.2538
72)	1-Chloronaphthalene	(3)	6.773	162	344942	45.8583
73)	Diphenyl ether	(3)	6.859	170	228801	47.1872
74)	2-Nitroaniline	(3)	6.877	138	136484	50.3265
77)	Dimethylphthalate	(3)	7.043	163	409121	49.7624
79)	2,6-Dinitrotoluene	(3)	7.080	165	99423	50.9354
80)	Acenaphthylene	(3)	7.111	152	604580	56.8397
81)	3-Nitroaniline	(3)	7.210	138	118269	49.6534
82)	Acenaphthene-d10	(3)	7.228	164	257686	40.0000
83)	Acenaphthene	(3)	7.253	153	366973	50.6384
84)	2,4-Dinitrophenol	(3)	7.302	184	38985	45.2048
85)	Pentachlorobenzene	(3)	7.363	250	136472	50.9523
86)	4-Nitrophenol	(3)	7.376	109	65370	50.2469
87)	Dibenzofuran	(3)	7.400	168	515298	48.8939
88)	2,4-Dinitrotoluene	(3)	7.412	165	130310	50.2625
90)	1-Naphthylamine	(3)	7.468	143	398719	48.3938
91)	2,3,4,6-Tetrachlorophenol	(3)	7.511	232	89150	51.7064
92)	2-Naphthylamine	(3)	7.535	143	390602	45.2050
93)	Diethylphthalate	(3)	7.628	149	407789	49.0798
94)	Fluorene	(3)	7.677	166	429668	50.4884
96)	4-Chlorophenyl-phenylether	(3)	7.695	204	184021	50.1806
98)	4-Nitroaniline	(3)	7.714	138	130502	49.6997
99)	4,6-Dinitro-2-methylphenol	(4)	7.738	198	65826	48.2766
102)	N-Nitrosodiphenylamine	(4)	7.794	169	300096	48.6397
103)	1,2-Diphenylhydrazine	(4)	7.824	77	416606	51.4922
108)	Phorate	(4)	8.046	75	329264	49.9098
110)	4-Bromophenyl-phenylether	(4)	8.095	248	109284	51.3415
112)	Hexachlorobenzene	(4)	8.120	284	129857	51.1364
116)	Pentachlorophenol	(4)	8.292	266	66261	49.2995
120)	Phenanthrene-d10	(4)	8.439	188	474082	40.0000
121)	Phenanthrene	(4)	8.458	178	637655	50.7818
122)	Dinoseb	(4)	8.464	211	84091	49.7146
124)	Anthracene	(4)	8.501	178	657725	50.3652
125)	Carbazole	(4)	8.642	167	631382	51.2615
126)	Methyl parathion	(4)	8.771	109	134779	51.8113
128)	Di-n-butylphthalate	(4)	8.974	149	729231	51.0261
129)	Parathion	(4)	9.097	109	87885	52.3335
134)	Fluoranthene	(4)	9.423	202	662898	47.0984
135)	Benzidine	(5)	9.564	184	2071820	234.3304
136)	Pyrene	(5)	9.601	202	721882	52.0015

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug13.b/ch0378.d Instrument ID: HP10623.i
Injection date and time: 14-AUG-2007 03:19 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug13.b/m8270.m Sublist used: all1
Calibration date and time: 14-AUG-2007 04:04
Date, time and analyst ID of latest file update: 14-Aug-2007 04:11 mac00013

Sample Name: SSTD050 Lab Sample ID: ICV1387

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
143)	Butylbenzylphthalate	(5)	10.179	149	349673	52.1696
145)	3,3'-Dichlorobenzidine	(5)	10.579	252	262811	49.6690
146)	Benzo(a)anthracene	(5)	10.579	228	649822	51.5783
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.591	231	120726	47.3495
149)	Chrysene-d12	(5)	10.591	240	444646	40.0000
150)	Chrysene	(5)	10.610	228	637806	49.9605
151)	bis(2-Ethylhexyl)phthalate	(5)	10.665	149	471212	50.3155
152)	6-Methylchrysene	(5)	10.979	242	514036	51.7071
156)	Di-n-octylphthalate	(6)	11.188	149	816762	50.0085
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.427	256	331472	46.9385
158)	Benzo(b)fluoranthene	(6)	11.434	252	710381	45.8009
159)	Benzo(k)fluoranthene	(6)	11.452	252	794447	50.6450
160)	Benzo(a)pyrene	(6)	11.673	252	715279	49.7050
161)	Perylene-d12	(6)	11.716	264	445103	40.0000
162)	3-Methylcholanthrene	(6)	11.932	268	391586	47.9157
166)	Dibenz(a,h)acridine	(6)	12.331	279	635331	49.5326
167)	Dibenz(a,j)acridine	(6)	12.368	279	666733	50.8681
168)	Indeno(1,2,3-cd)pyrene	(6)	12.510	276	861916	47.5244
169)	Dibenz(a,h)anthracene	(6)	12.528	278	730791	50.6825
170)	Benzo(g,h,i)perylene	(6)	12.725	276	752534	48.8384
9)	2-Fluorophenol	(1)	3.373	112	172886	48.2196
13)	Phenol-d5	(1)	4.326	99	225936	48.3551
14)	Phenol-d6	(1)	4.326	99	225936	48.3551
35)	Nitrobenzene-d5	(2)	5.137	82	181302	47.9932
66)	2-Fluorobiphenyl	(3)	6.687	172	381847	48.9199
104)	2,4,6-Tribromophenol	(3)	7.880	330	63972	49.0920
138)	Terphenyl-d14	(5)	9.755	244	471241	51.3711

M = Compound was manually integrated. A = User selected an alternate h

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date(s): 07/30/07 07/30/07

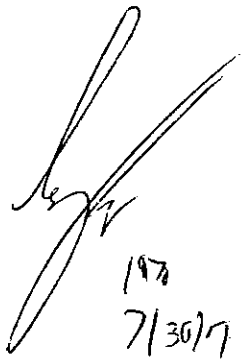
Calibration Times: 20:11 22:18

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = gg118f.d RRF15 = gg118e.d RRF30 = gg118a.d
RRF50 = gg118d.d RRF80 = gg118c.d RRF120 = gg118b.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	1,4-Dioxane	0.700	0.699	0.720	0.708	0.713	0.694		0.706	1	AVG	
	N-Nitrosodimethylamine	0.922	1.053	1.101	1.081	1.114	1.099		1.062	7	AVG	
	Pyridine	1.736	1.916	2.021	2.028	2.002	2.004		1.951	6	AVG	
	2-Picoline	1.836	2.002	1.996	2.034	2.022	1.997		1.981	4	AVG	
	N-Nitrosomethylethylamine	0.941	0.919	0.949	0.944	0.962	0.941		0.943	2	AVG	
	Methyl methanesulfonate	0.776	0.792	0.841	0.827	0.845	0.827		0.818	3	AVG	
	N-Nitrosodiethylamine	0.909	0.945	0.989	0.987	1.005	0.974		0.968	4	AVG	
	Ethyl methanesulfonate	0.871	0.910	0.937	0.949	0.964	0.935		0.928	4	AVG	
	Aniline	2.930	3.058	3.219	3.166	3.179	3.046		3.100	3	AVG	
*	Phenol	2.590	2.613	2.781	2.730	2.767	2.770		2.709	3	AVG	*
	Pentachloroethane	0.516	0.535	0.540	0.546	0.554	0.530		0.537	2	AVG	
	bis(2-Chloroethyl)ether	1.877	1.928	1.958	1.908	1.971	1.869		1.919	2	AVG	
	2-Chlorophenol	1.541	1.602	1.663	1.691	1.733	1.660		1.648	4	AVG	
	1,3-Dichlorobenzene	1.611	1.645	1.683	1.668	1.666	1.626		1.650	2	AVG	
*	1,4-Dichlorobenzene	1.615	1.704	1.726	1.707	1.724	1.670		1.691	3	AVG	*
	Benzyl alcohol	1.265	1.301	1.333	1.281	1.359	1.324		1.310	3	AVG	
	1,2-Dichlorobenzene	1.567	1.623	1.631	1.641	1.627	1.559		1.608	2	AVG	
	2-Methylphenol	1.698	1.833	1.900	1.901	1.923	1.843		1.850	4	AVG	
	2,2'-oxybis(1-Chloropropane)	2.019	2.118	2.185	2.144	2.135	2.063		2.111	3	AVG	
	bis(2-Chloroisopropyl)ether	2.019	2.118	2.185	2.144	2.135	2.063		2.111	3	AVG	
	N-Nitrosopyrrolidine	1.007	1.080	1.137	1.151	1.141	1.125		1.107	5	AVG	
	Acetophenone	2.553	2.673	2.721	2.738	2.718	2.609		2.669	3	AVG	
#	N-Nitroso-di-n-propylamine	1.254	1.328	1.373	1.370	1.347	1.239		1.319	4	AVG	#
	N-Nitrosomorpholine	0.936	0.986	1.000	0.969	0.961	0.916		0.961	3	AVG	
	4-Methylphenol	1.962	2.082	2.161	2.150	2.125	1.960		2.073	4	AVG	
	o-Toluidine	3.079	3.213	3.267	3.267	3.224	3.005		3.176	3	AVG	
	Hexachloroethane	0.649	0.653	0.682	0.675	0.676	0.645		0.663	2	AVG	
	Nitrobenzene	0.420	0.429	0.443	0.442	0.436	0.423		0.432	2	AVG	
	N-Nitrosopiperidine	0.204	0.216	0.224	0.225	0.222	0.216		0.218	4	AVG	
	Isophorone	0.822	0.857	0.882	0.878	0.870	0.848		0.859	3	AVG	
*	2-Nitrophenol	0.169	0.182	0.194	0.196	0.198	0.192		0.188	6	AVG	*
	2,4-Dimethylphenol	0.394	0.428	0.441	0.445	0.437	0.428		0.429	4	AVG	
	O,O,O-triethylphosphorothioate	0.191	0.191	0.197	0.200	0.196	0.190		0.194	2	AVG	
	bis(2-Chloroethoxy)methane	0.502	0.520	0.523	0.524	0.524	0.497		0.515	2	AVG	
	Benzoic acid	0.281	0.305	0.323	0.324	0.339	0.275		0.308	8	AVG	
*	2,4-Dichlorophenol	0.297	0.320	0.327	0.333	0.331	0.319		0.321	4	AVG	*
	1,2,4-Trichlorobenzene	0.315	0.314	0.325	0.324	0.322	0.315		0.319	2	AVG	
	Naphthalene	1.094	1.118	1.153	1.144	1.132	1.097		1.123	2	AVG	
	4-Chloroaniline	0.461	0.477	0.491	0.481	0.470	0.447		0.471	3	AVG	
	2,6-Dichlorophenol	0.291	0.303	0.316	0.316	0.310	0.294		0.305	4	AVG	
	Hexachloropropene	0.173	0.180	0.193	0.192	0.197	0.186		0.187	5	AVG	
*	Hexachlorobutadiene	0.165	0.168	0.170	0.169	0.169	0.161		0.167	2	AVG	*
	Caprolactam	0.156	0.163	0.167	0.166	0.169	0.164		0.164	3	AVG	
	N-Nitrosodi-n-butylamine	0.389	0.399	0.414	0.323	0.308	0.296		0.355	15	AVG	+
*	4-Chloro-3-methylphenol	0.364	0.393	0.403	0.402	0.401	0.392		0.393	4	AVG	*
	Safrole	0.282	0.299	0.304	0.307	0.301	0.291		0.297	3	AVG	
	2-Methylnaphthalene	0.713	0.743	0.758	0.762	0.746	0.722		0.740	3	AVG	
	1-Methylnaphthalene	0.699	0.736	0.755	0.752	0.742	0.712		0.733	3	AVG	
#	Hexachlorocyclopentadiene	0.199	0.238	0.271	0.286	0.292	0.289		0.262	14	AVG	#
	1,2,4,5-Tetrachlorobenzene	0.471	0.488	0.488	0.494	0.483	0.468		0.482	2	AVG	
	cis-Isosafrole	0.427	0.438	0.454	0.456	0.447	0.438		0.443	3	AVG	
*	2,4,6-Trichlorophenol	0.311	0.329	0.346	0.355	0.356	0.346		0.340	5	AVG	*

+ %RSD is less than or equal to 15%; however, value rounds to 15.



0497

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date(s): 07/30/07 07/30/07

Calibration Times: 20:11 22:18

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

LAB FILE ID: RRF5 = gg118f.d RRF15 = gg118e.d RRF30 = gg118a.d
RRF50 = gg118d.d RRF80 = gg118c.d RRF120 = gg118b.d

	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	2,4,5-Trichlorophenol	0.338	0.390	0.391	0.401	0.407	0.405		0.389	7	AVG	
	trans-Isosafrole	0.547	0.575	0.600	0.600	0.589	0.570		0.580	4	AVG	
	Isosafrole	0.487	0.511	0.534	0.534	0.524	0.507		0.516	4	AVG	
	Biphenyl	1.442	1.492	1.515	1.504	1.484	1.383		1.470	3	AVG	
	Diphenyl	1.442	1.492	1.515	1.504	1.484	1.383		1.470	3	AVG	
	1,1'-Biphenyl	1.442	1.492	1.515	1.504	1.484	1.383		1.470	3	AVG	
	2-Chloronaphthalene	1.404	1.334	1.151	1.493	1.227	1.417		1.338	10	AVG	
	Diphenyl ether	0.765	0.775	0.787	0.799	0.784	0.753		0.777	2	AVG	
	2-Nitroaniline	0.357	0.385	0.418	0.427	0.421	0.413		0.403	7	AVG	
	1,4-Naphthoquinone	0.357	0.425	0.446	0.454	0.438	0.416		0.423	8	AVG	
	1,4-Dinitrobenzene	0.153	0.187	0.208	0.217	0.221	0.218		0.201	13	AVG	
	Dimethylphthalate	1.278	1.288	1.323	1.332	1.310	1.282		1.302	2	AVG	
	1,3-Dinitrobenzene	0.204	0.229	0.238	0.245	0.248	0.241		0.234	7	AVG	
	2,6-Dinitrotoluene	0.273	0.308	0.317	0.311	0.316	0.304		0.305	5	AVG	
	Acenaphthylene	1.729	1.823	1.853	1.868	1.854	1.769		1.816	3	AVG	
	3-Nitroaniline	0.330	0.364	0.372	0.376	0.372	0.363		0.363	5	AVG	
*	Acenaphthene	1.146	1.163	1.186	1.185	1.173	1.111		1.161	2	AVG	*
#	2,4-Dinitrophenol	0.119	0.147	0.173	0.169	0.186	0.189		0.164	16	1STDEG	#
	Pentachlorobenzene	0.469	0.476	0.472	0.486	0.476	0.464		0.474	2	AVG	
#	4-Nitrophenol	0.192	0.211	0.221	0.224	0.220	0.211		0.213	5	AVG	#
	Dibenzofuran	1.606	1.642	1.674	1.658	1.631	1.568		1.630	2	AVG	
	2,4-Dinitrotoluene	0.374	0.397	0.412	0.415	0.406	0.398		0.400	4	AVG	
	1-Naphthylamine	1.207	1.280	1.247	1.266	1.215	1.156		1.228	4	AVG	
	2,3,4,6-Tetrachlorophenol	0.283	0.298	0.307	0.313	0.313	0.305		0.303	4	AVG	
	2-Naphthylamine	1.264	1.278	1.312	1.301	1.255	1.195		1.268	3	AVG	
	Diethylphthalate	1.222	1.240	1.256	1.257	1.232	1.210		1.236	2	AVG	
	Thionazin	0.285	0.245	0.254	0.246	0.232	0.208		0.245	10	AVG	
	Fluorene	1.352	1.371	1.378	1.361	1.295	1.178		1.322	6	AVG	
	4-Chlorophenyl-phenylether	0.626	0.641	0.638	0.647	0.629	0.580		0.627	4	AVG	
	5-Nitro-o-toluidine	0.389	0.405	0.407	0.415	0.407	0.401		0.404	2	AVG	
	4-Nitroaniline	0.381	0.387	0.396	0.395	0.391	0.379		0.388	2	AVG	
	4,6-Dinitro-2-methylphenol	0.096	0.114	0.131	0.139	0.147	0.149		0.129	16	1STDEG	
	1-Nitronaphthalene	0.135	0.144	0.148	0.150	0.152	0.148		0.146	4	AVG	
*	N-Nitrosodiphenylamine (1)	0.510	0.527	0.539	0.555	0.545	0.530		0.534	3	AVG	*
	1,2-Diphenylhydrazine	0.748	0.788	0.818	0.821	0.814	0.780		0.795	4	AVG	
	Tetraethyldithiopyrophosphate	0.116	0.120	0.128	0.125	0.123	0.114		0.121	5	AVG	
	1,3,5-Trinitrobenzene	0.047	0.067	0.079	0.086	0.089	0.088		0.076	22	1STDEG	
	Diallate (peak 1)	0.345	0.381	0.394	0.390	0.381	0.357		0.375	5	AVG	
	Phorate	0.433	0.471	0.497	0.519	0.657	0.605		0.530	16	1STDEG	
	Phenacetin	0.372	0.407	0.420	0.423	0.426	0.415		0.411	5	AVG	
	4-Bromophenyl-phenylether	0.189	0.192	0.196	0.206	0.205	0.198		0.198	3	AVG	
	Diallate (peak 2)	0.358	0.365	0.379	0.373	0.379	0.365		0.370	2	AVG	
	Hexachlorobenzene	0.215	0.219	0.221	0.228	0.231	0.228		0.224	3	AVG	
	Dimethoate	0.319	0.319	0.322	0.278	0.250	0.256		0.290	11	AVG	
	Diallate TRANS/CIS	0.348	0.377	0.390	0.386	0.380	0.359		0.373	4	AVG	
*	Pentachlorophenol	0.119	0.124	0.139	0.137	0.147	0.152		0.136	9	AVG	*
	Pentachloronitrobenzene	0.082	0.086	0.085	0.086	0.084	0.082		0.084	2	AVG	
	4-Aminobiphenyl	0.668	0.672	0.694	0.683	0.676	0.617		0.668	4	AVG	
	Pronamide	0.272	0.295	0.305	0.310	0.313	0.302		0.300	5	AVG	
	Dinoseb	0.100	0.140	0.163	0.182	0.190	0.196		0.162	23	1STDEG	
	Phenanthrene	1.070	1.097	1.114	1.136	1.132	1.081		1.105	2	AVG	
	Anthracene	1.059	1.100	1.161	1.161	1.168	1.125		1.129	4	AVG	

0498

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date(s): 07/30/07 07/30/07

Calibration Times: 20:11 22:18

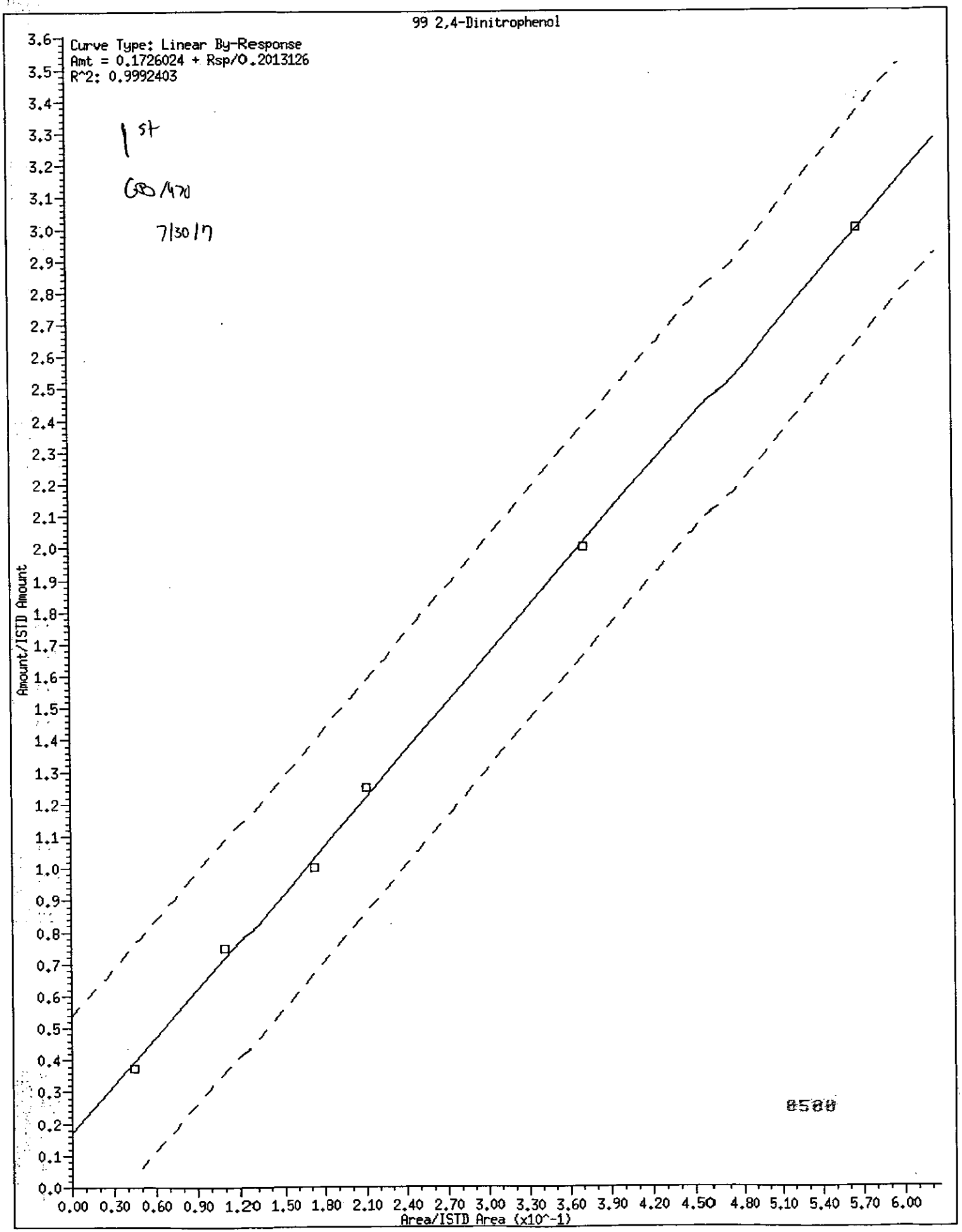
Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30%

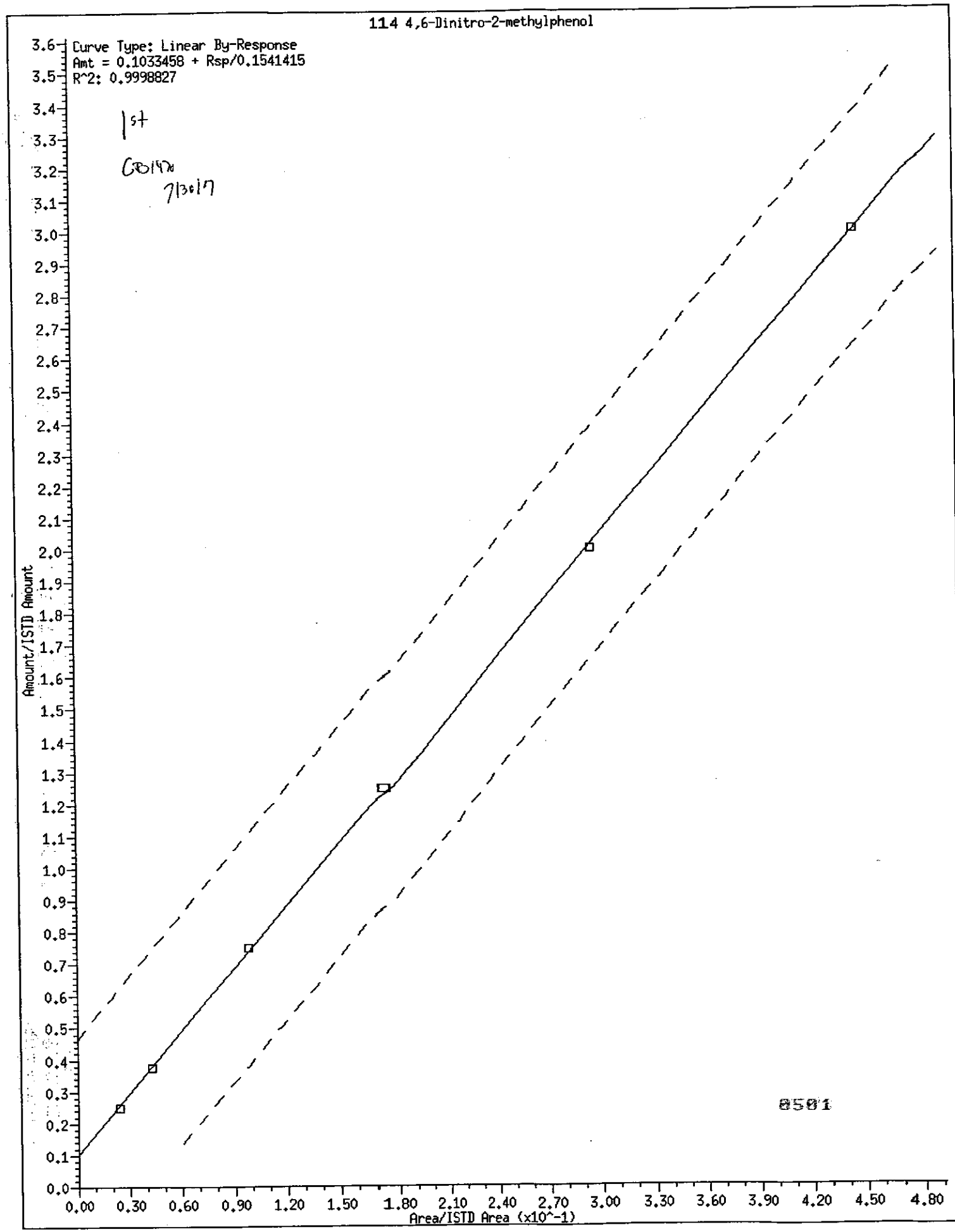
LAB FILE ID: RRF5 = gg118f.d RRF15 = gg118e.d RRF30 = gg118a.d
RRF50 = gg118d.d RRF80 = gg118c.d RRF120 = gg118b.d

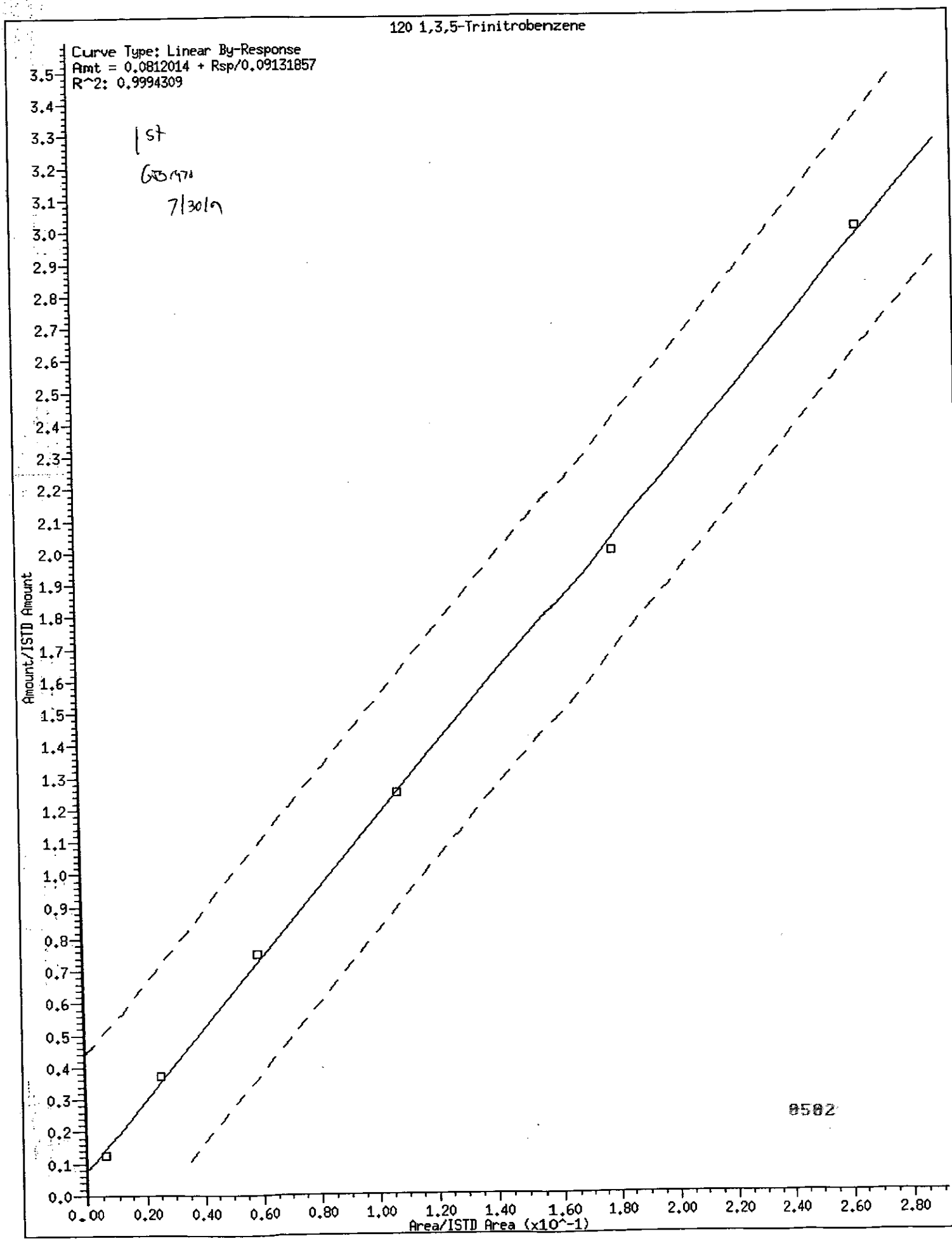
	COMPOUND	RRF5	RRF15	RRF30	RRF50	RRF80	RRF120	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
	Carbazole	1.005	1.041	1.065	1.075	1.081	1.047		1.052	3	AVG	
	Methyl parathion	0.216	0.241	0.250	0.231	0.212	0.204		0.225	8	AVG	
	Di-n-butylphthalate	1.109	1.132	1.188	1.189	1.186	1.157		1.160	3	AVG	
	Parathion	0.134	0.149	0.165	0.166	0.164	0.158		0.156	8	AVG	
	4-Nitroquinoline-1-oxide	0.039	0.063	0.078	0.088	0.090	0.088		0.074	27	1STDEG	
	Methapyrilene	0.363	0.333	0.329	0.247	0.214	0.260		0.291	20	2NDDEG	
	Isodrin	0.106	0.109	0.114	0.115	0.114	0.110		0.111	3	AVG	
*	Fluoranthene	1.143	1.204	1.233	1.262	1.268	1.228		1.223	4	AVG	*
	Benzidine	0.549	0.690	0.722	0.737	0.699	0.658		0.676	10	AVG	
	Pyrene	1.155	1.237	1.285	1.310	1.315	1.281		1.264	5	AVG	
	p-Dimethylaminoazobenzene	0.223	0.251	0.267	0.281	0.286	0.282		0.265	9	AVG	
	Chlorobenzilate	0.323	0.357	0.369	0.374	0.370	0.355		0.358	5	AVG	
	3,3'-Dimethylbenzidine	0.437	0.572	0.619	0.630	0.629	0.612		0.583	13	AVG	
	Butylbenzylphthalate	0.472	0.523	0.542	0.548	0.546	0.534		0.528	5	AVG	
	2-Acetylaminofluorene	0.359	0.431	0.485	0.497	0.511	0.513		0.466	13	AVG	
	3,3'-Dichlorobenzidine	0.378	0.420	0.447	0.458	0.465	0.449		0.436	7	AVG	
	4,4'-Methylenebis(2-Chloroanil	0.196	0.216	0.227	0.230	0.229	0.216		0.219	6	AVG	
	Benzo(a)anthracene	1.115	1.182	1.196	1.229	1.214	1.179		1.186	3	AVG	
	Chrysene	1.067	1.104	1.128	1.146	1.200	1.149		1.132	4	AVG	
	bis(2-Ethylhexyl)phthalate	0.652	0.684	0.722	0.730	0.734	0.713		0.706	4	AVG	
	6-Methylchrysene	0.719	0.775	0.818	0.843	0.867	0.870		0.815	7	AVG	
*	Di-n-octylphthalate	1.205	1.341	1.480	1.482	1.542	1.528		1.429	9	AVG	*
	Dibenz(a,h)acridine	0.942	1.039	1.084	1.117	1.168	1.154		1.084	8	AVG	
	Dibenz(a,j)acridine	0.923	0.974	1.032	1.060	1.107	1.108		1.034	7	AVG	
	7,12-Dimethylbenz[a]anthracene	0.618	0.691	0.723	0.747	0.766	0.747		0.715	8	AVG	
	Hexabromobenzene								0.000	0	AVG	
	Benzo(b)fluoranthene	1.367	1.362	1.449	1.464	1.556	1.508		1.451	5	AVG	
	Ronnel	0.254	0.264	0.260	0.262	0.249	0.235		0.254	4	AVG	
	Benzo(k)fluoranthene	1.291	1.486	1.513	1.549	1.490	1.506		1.473	6	AVG	
*	Benzo(a)pyrene	1.175	1.259	1.331	1.365	1.381	1.394		1.317	6	AVG	*
	3-Methylcholanthrene	0.662	0.726	0.770	0.781	0.784	0.788		0.752	7	AVG	
	Indeno(1,2,3-cd)pyrene	1.301	1.402	1.467	1.493	1.527	1.538		1.455	6	AVG	
	Dibenz(a,h)anthracene	1.065	1.147	1.211	1.224	1.273	1.271		1.198	7	AVG	
	Benzo(g,h,i)perylene	1.100	1.182	1.244	1.253	1.278	1.289		1.224	6	AVG	
	1-Chloronaphthalene	1.036	1.102	1.164	1.059	1.062	1.036		1.077	5	AVG	
	2-Fluorophenol	1.505	1.597	1.693	1.682	1.732	1.706		1.652	5	AVG	
	Phenol-d5	2.125	2.271	2.406	2.391	2.421	2.336		2.325	5	AVG	
	Phenol-d6	2.125	2.271	2.406	2.391	2.421	2.336		2.325	5	AVG	
	Nitrobenzene-d5	0.418	0.423	0.437	0.433	0.435	0.427		0.429	2	AVG	
	2-Fluorobiphenyl	1.183	1.254	1.276	1.261	1.239	1.192		1.234	3	AVG	
	2,4,6-Tribromophenol	0.162	0.171	0.176	0.187	0.188	0.185		0.178	6	AVG	
	Terphenyl-d14	0.739	0.784	0.820	0.860	0.873	0.847		0.821	6	AVG	
									Average %RSD	5		

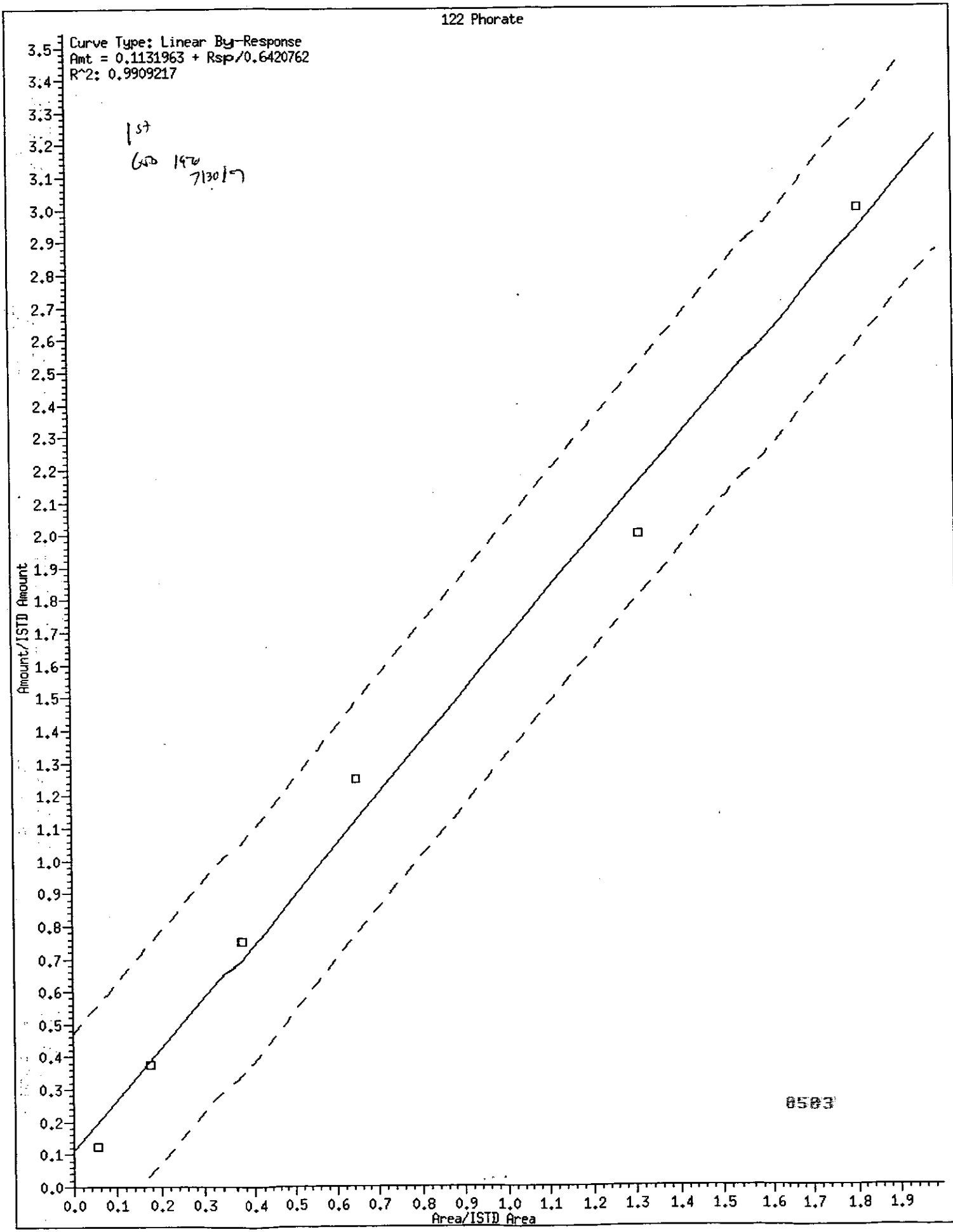
8499

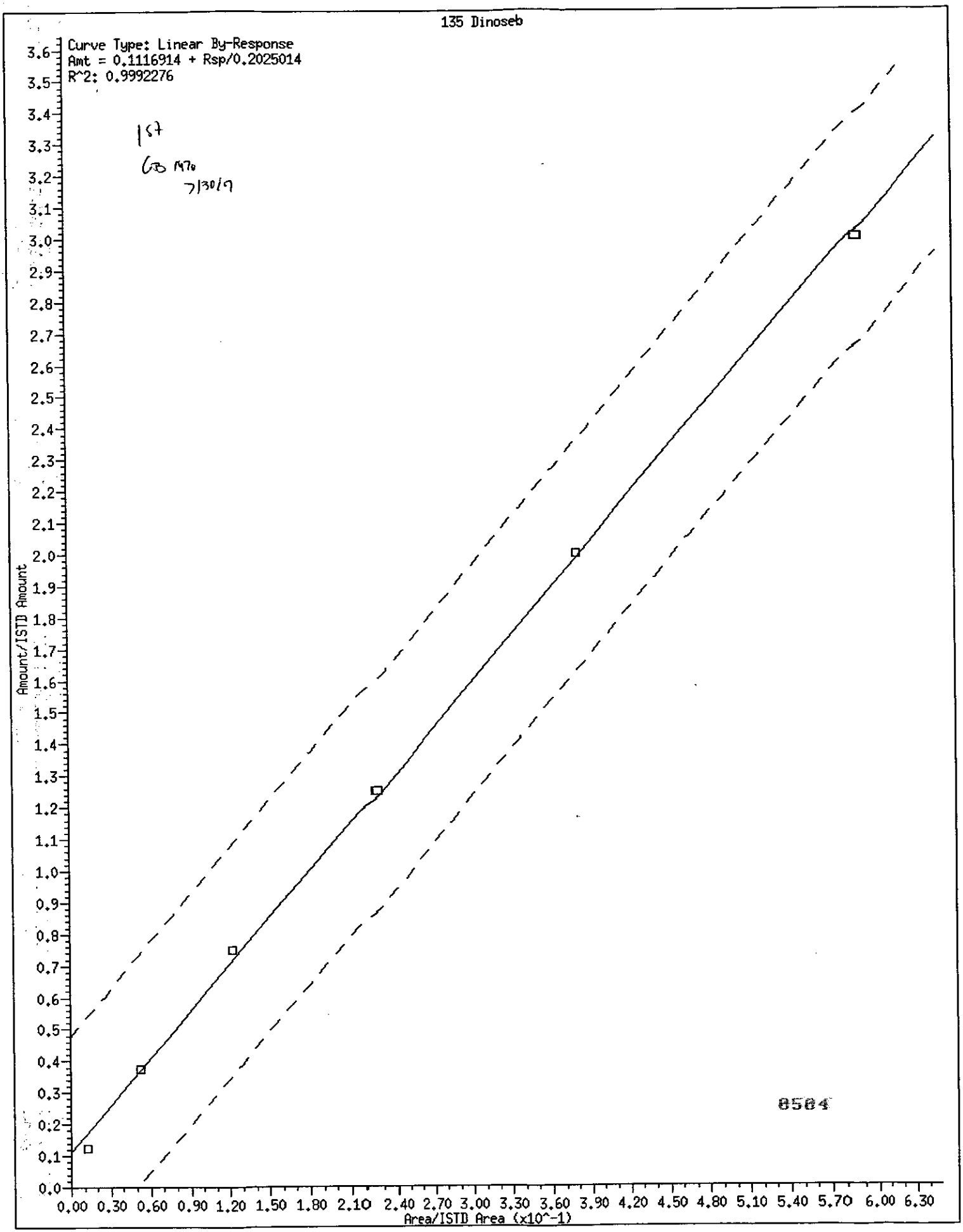
4,6-Dinitro-2-methylphenol and 4-Nitrophenol are at 10 ng/ul in the 5 standard.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul in the 5 standard.
Benzidine Levels in the 5,15,30,50,80,120 standards are 15,45,90,150,240,360 ng/ul, respectively.
Benzoic acid, Pentachlorophenol and 2,4-Dinitrophenol are at 15 ng/ul, 30 ng/ul,40 ng/ul in the 5 ,15, 30 standards.

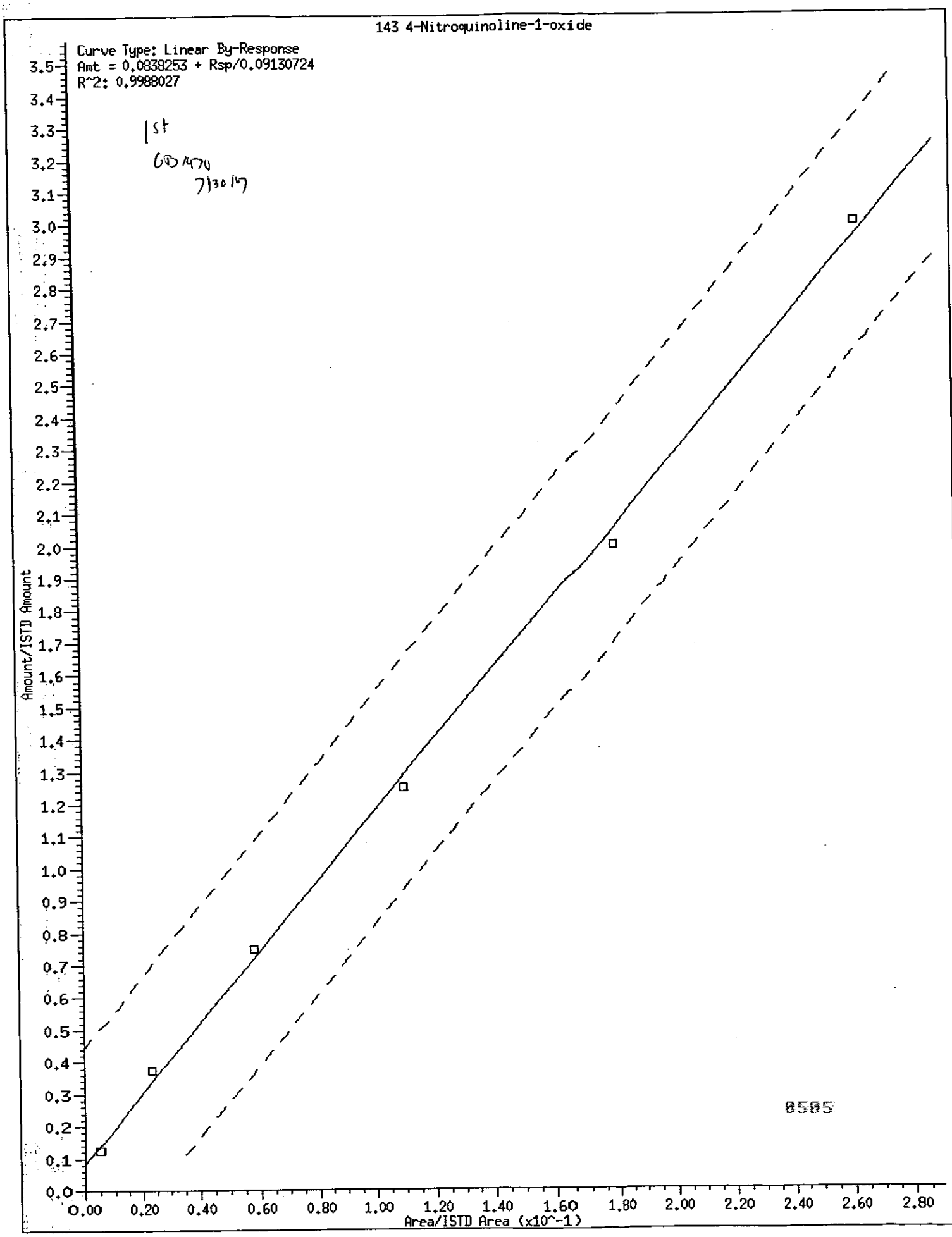

99 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0.1726024 + Rsp/0.2013126
R^2: 0.9992403
1st
GB/KN
7/30/17
0500
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00

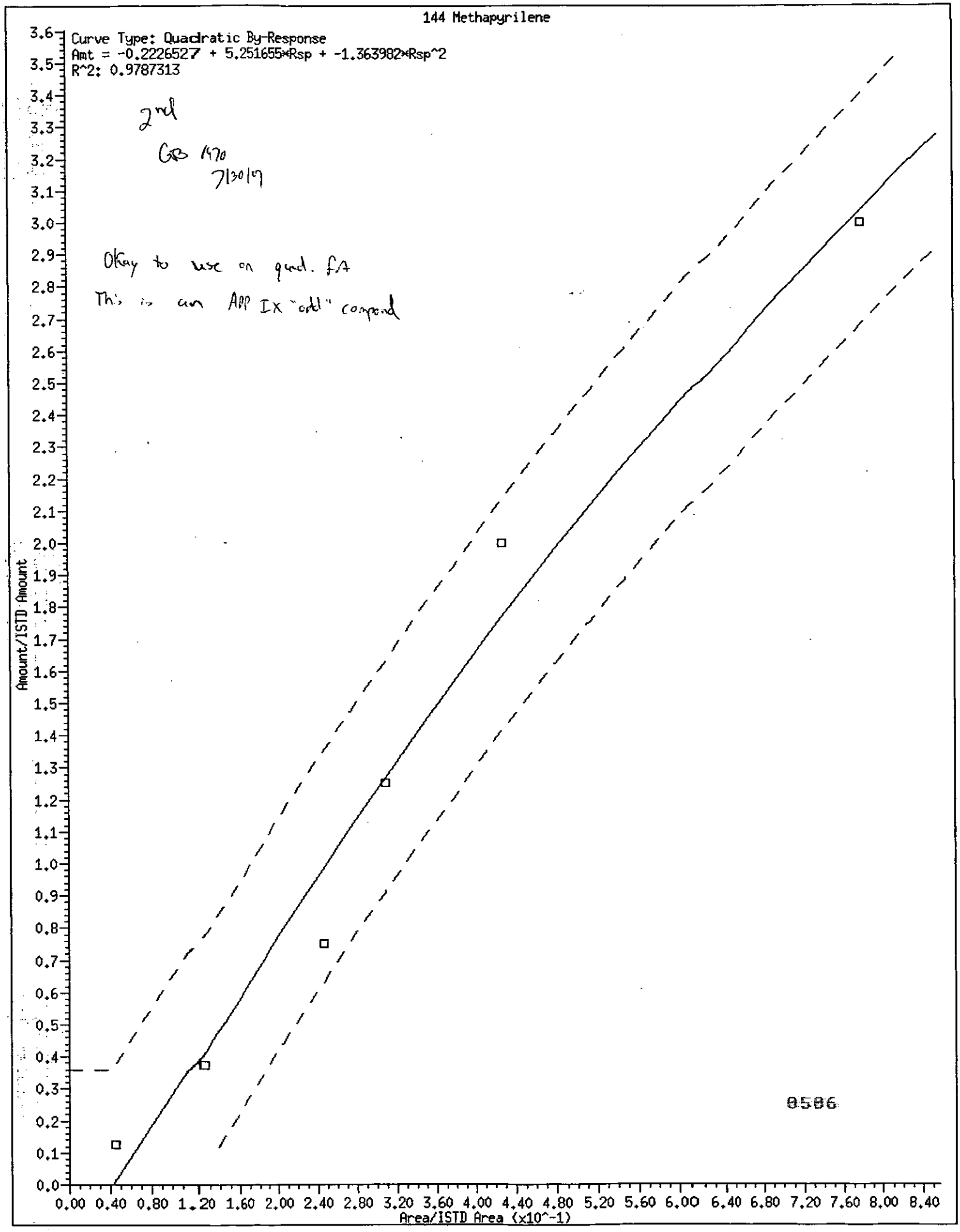

114 4,6-Dinitro-2-methylphenol
Curve Type: Linear By-Response
Amt = 0.1033458 + Rsp/0.1541415
R^2: 0.9998827
1st
CB1/17
7/30/17
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0501

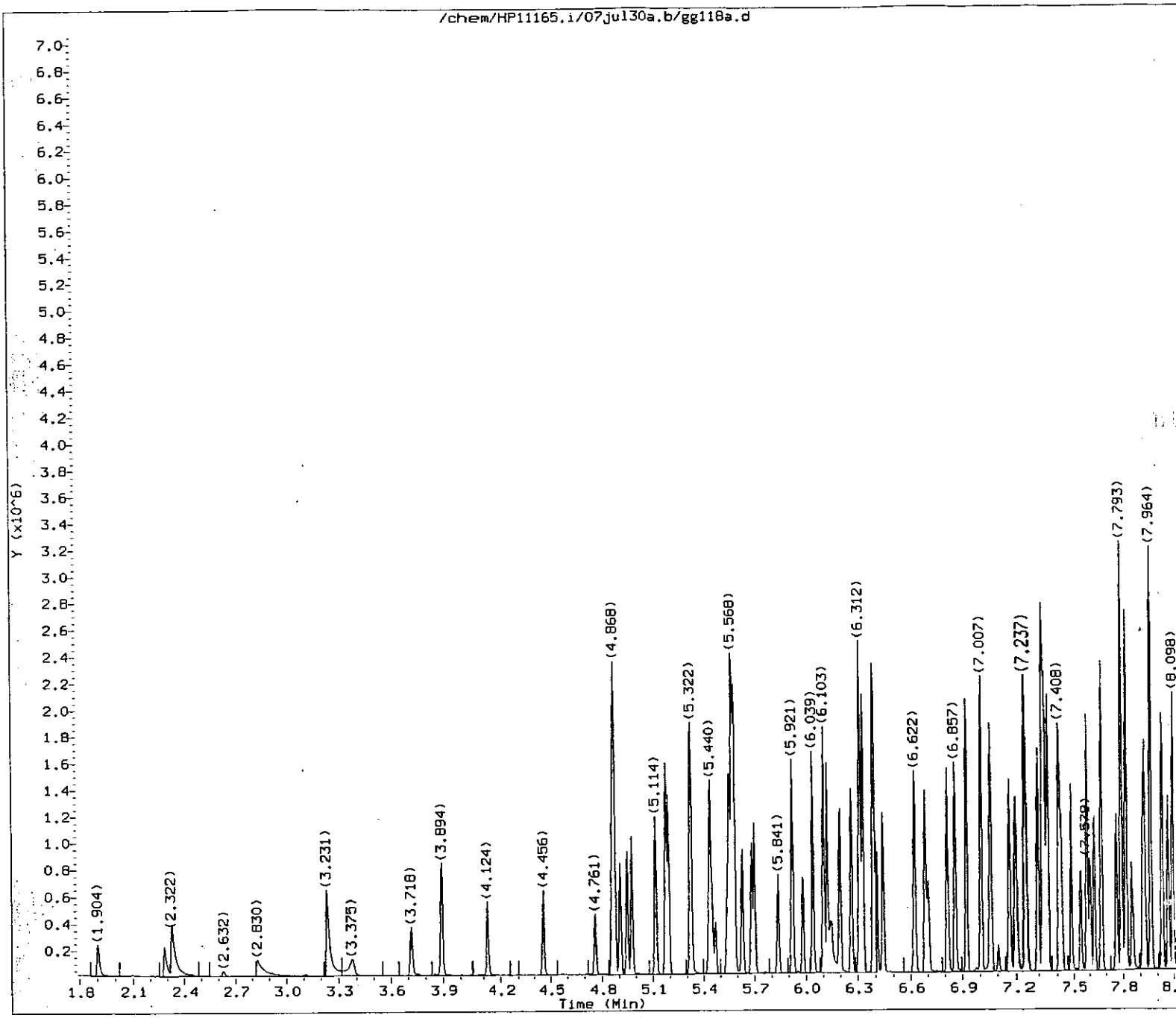

120 1,3,5-Trinitrobenzene
Curve Type: Linear By-Response
Amt = 0.0812014 + Rsp/0.09131857
R^2: 0.9994309
1st
GB1971
7/30/19
0502
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80


122 Phorate
Curve Type: Linear By-Response
Amt = 0.1131963 + Rsp/0.6420762
R^2: 0.9909217
1st
GD 1st
7/30/17
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5
0503


135 Dinoseb
Curve Type: Linear By-Response
Amt = 0.1116914 + Rsp/0.2025014
R^2: 0.9992276
157
GB 1970
7/30/19
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00 6.30
0504


143 4-Nitroquinoline-1-oxide
Curve Type: Linear By-Response
Amt = 0.0838253 + Rsp/0.09130724
R^2: 0.9988027
1st
GB 1470
7/30/17
8585
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40
2.60
2.80


144 Methapyrilene
Curve Type: Quadratic By-Response
Amt = -0.2226527 + 5.251655*Rsp + -1.363982*Rsp^2
R^2: 0.9787313
2nd
GB 1470
7/30/19
Okay to use on quant. for
This is an APP IX "add" compound
0586
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80 3.20 3.60 4.00 4.40 4.80 5.20 5.60 6.00 6.40 6.80 7.20 7.60 8.00 8.40



Quant Report

Target Revision 3.5

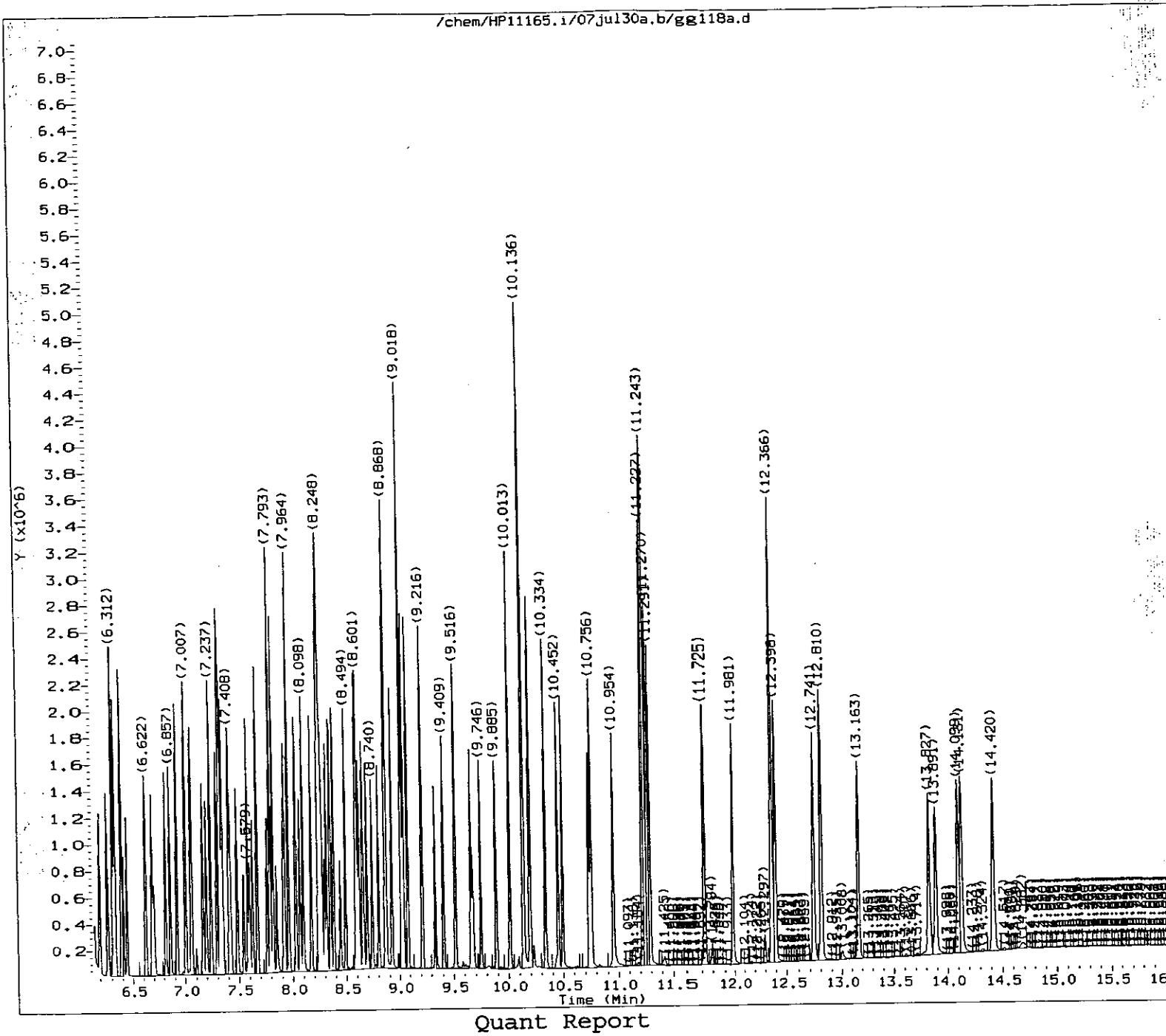
Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

0507

7/30/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118a.d
Injection date and time: 30-JUL-2007 20:11

Instrument ID: HP11165.i
Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m
Calibration date and time: 30-JUL-2007 21:13

Sublist used: all1

Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030

Lab Sample ID: STD2057

0508

GJ1970
7/31/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.904	88	100752	30.000
2)	N-Nitrosodimethylamine	(1)	2.284	74	154104	30.000
3)	Pyridine	(1)	2.327	79	282864	30.000
5)	2-Picoline	(1)	3.231	93	279404	30.000
6)	N-Nitrosomethylethylamine	(1)	3.381	88	132850	30.000
7)	Methyl methanesulfonate	(1)	3.718	80	117725	30.000
10)	N-Nitrosodiethylamine	(1)	4.124	102	138410	30.000
11)	Ethyl methanesulfonate	(1)	4.456	109	131155	30.000
13)	Aniline	(1)	4.868	93	450641	30.000
16)	Phenol	(1)	4.868	94	389274	30.000
17)	Pentachloroethane	(1)	4.905	167	75579	30.000
18)	bis(2-Chloroethyl)ether	(1)	4.948	93	274066	30.000
19)	2-Chlorophenol	(1)	4.975	128	232727	30.000
20)	1,3-Dichlorobenzene	(1)	5.114	146	235651	30.000
21)	1,4-Dichlorobenzene-d4	(1)	5.172	152	186644	40.000
22)	1,4-Dichlorobenzene	(1)	5.189	146	241664	30.000
24)	Benzyl alcohol	(1)	5.317	108	186588	30.000
25)	1,2-Dichlorobenzene	(1)	5.322	146	228284	30.000
26)	2-Methylphenol	(1)	5.435	108	266010	30.000
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.451	45	305814	30.000
28)	bis(2-Chloroisopropyl)ether	(1)	5.451	45	305814	30.000
29)	N-Nitrosopyrrolidine	(1)	5.542	100	159123	30.000
30)	Acetophenone	(1)	5.552	105	380885	30.000
31)	N-Nitroso-di-n-propylamine	(1)	5.568	70	192226	30.000
32)	N-Nitrosomorpholine	(1)	5.579	56	139994	30.000
33)	4-Methylphenol	(1)	5.574	108	302479	30.000
34)	o-Toluidine	(1)	5.584	106	457337	30.000
37)	Hexachloroethane	(1)	5.632	117	95400	30.000
39)	Nitrobenzene	(2)	5.702	77	281805	30.000
40)	N-Nitrosopiperidine	(2)	5.841	114	142470	30.000
41)	Isophorone	(2)	5.921	82	561680	30.000
42)	2-Nitrophenol	(2)	5.985	139	123417	30.000
44)	2,4-Dimethylphenol	(2)	6.039	107	280985	30.000
45)	O,O,O-triethylphosphorothioate	(2)	6.103	198	125261	30.000
46)	bis(2-Chloroethoxy)methane	(2)	6.125	93	332845	30.000
47)	Benzoic acid	(2)	6.146	105	273985	40.000
49)	2,4-Dichlorophenol	(2)	6.199	162	208104	30.000
50)	1,2,4-Trichlorobenzene	(2)	6.264	180	206767	30.000
52)	Naphthalene-d8	(2)	6.312	136	848929	40.000
53)	Naphthalene	(2)	6.328	128	734256	30.000
55)	4-Chloroaniline	(2)	6.387	127	312935	30.000
56)	2,6-Dichlorophenol	(2)	6.392	162	201450	30.000
57)	Hexachloropropene	(2)	6.408	213	123101	30.000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59) Hexachlorobutadiene	(2)	6.440	225	107968	30.000
62) Caprolactam	(2)	6.702	113	106053	30.000
63) N-Nitrosodi-n-butylamine	(2)	6.686	84	263908	30.000
67) 4-Chloro-3-methylphenol	(2)	6.814	107	256305	30.000
68) Safrole	(2)	6.857	162	193764	30.000
69) 2-Methylnaphthalene	(2)	6.921	142	482675	30.000
70) 1-Methylnaphthalene	(2)	7.007	142	480916	30.000
71) Hexachlorocyclopentadiene	(3)	7.055	237	113219	30.000
72) 1,2,4,5-Tetrachlorobenzene	(3)	7.066	216	203555	30.000
73) cis-Isosafrole	(3)	7.103	162	20870	3.300
74) 2,4,6-Trichlorophenol	(3)	7.168	196	144523	30.000
76) 2,4,5-Trichlorophenol	(3)	7.200	196	163204	30.000
78) trans-Isosafrole	(3)	7.296	162	222825	26.700
79) Isosafrole	(3)	7.296	162	222825	30.000
80) Biphenyl	(3)	7.323	154	632631	30.000
81) Diphenyl	(3)	7.323	154	632631	30.000
82) 1,1'-Biphenyl	(3)	7.323	154	632631	30.000
83) 2-Chloronaphthalene	(3)	7.333	162	480636	30.000
87) Diphenyl ether	(3)	7.408	170	328765	30.000
88) 2-Nitroaniline	(3)	7.424	138	174370	30.000
89) 1,4-Naphthoquinone	(3)	7.483	158	186235	30.000
90) 1,4-Dinitrobenzene	(3)	7.547	168	86910	30.000
91) Dimethylphthalate	(3)	7.585	163	552231	30.000
92) 1,3-Dinitrobenzene	(3)	7.606	168	99216	30.000
93) 2,6-Dinitrotoluene	(3)	7.633	165	132195	30.000
94) Acenaphthylene	(3)	7.676	152	773793	30.000
96) 3-Nitroaniline	(3)	7.767	138	155250	30.000
97) Acenaphthene-d10	(3)	7.793	164	556669	40.000
98) Acenaphthene	(3)	7.820	153	495043	30.000
99) 2,4-Dinitrophenol	(3)	7.852	184	96034	40.000
100) Pentachlorobenzene	(3)	7.927	250	196878	30.000
102) 4-Nitrophenol	(3)	7.916	109	92265	30.000
103) Dibenzofuran	(3)	7.964	168	699023	30.000
104) 2,4-Dinitrotoluene	(3)	7.964	165	171948	30.000
105) 1-Naphthylamine	(3)	8.029	143	520598	30.000
106) 2,3,4,6-Tetrachlorophenol	(3)	8.066	232	128051	30.000
107) 2-Naphthylamine	(3)	8.098	143	547874	30.000
108) Diethylphthalate	(3)	8.173	149	524474	30.000
109) Thionazin	(3)	8.237	107	106045	30.000
110) Fluorene	(3)	8.248	166	575144	30.000
111) 4-Chlorophenyl-phenylether	(3)	8.253	204	266339	30.000
112) 5-Nitro-o-toluidine	(3)	8.264	152	169960	30.000
113) 4-Nitroaniline	(3)	8.269	138	165285	30.000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.296	198	101007	30.000
115)	1-Nitronaphthalene	(4)	8.317	173	114445	30.000
116)	N-Nitrosodiphenylamine	(4)	8.355	169	415764	30.000
117)	1,2-Diphenylhydrazine	(4)	8.382	77	631044	30.000
119)	Tetraethyldithiopyrophosphate	(4)	8.494	97	99067	30.000
120)	1,3,5-Trinitrobenzene	(4)	8.585	213	60607	30.000
121)	Diallate (peak 1)	(4)	8.590	86	227657	22.500
122)	Phorate	(4)	8.601	75	383327	30.000
123)	Phenacetin	(4)	8.622	108	324249	30.000
124)	4-Bromophenyl-phenylether	(4)	8.654	248	151191	30.000
125)	Diallate (peak 2)	(4)	8.665	86	73026	7.500
126)	Hexachlorobenzene	(4)	8.692	284	170512	30.000
127)	Dimethoate	(4)	8.740	87	248058	30.000
128)	Diallate TRANS/CIS	(4)	23.156	86	300683	30.000
130)	Pentachlorophenol	(4)	8.863	266	142610	40.000
131)	Pentachloronitrobenzene	(4)	8.868	237	65569	30.000
132)	4-Aminobiphenyl	(4)	8.868	169	534977	30.000
133)	Pronamide	(4)	8.927	173	235074	30.000
134)	Phenanthrene-d10	(4)	9.018	188	1028403	40.000
135)	Dinoseb	(4)	9.018	211	125611	30.000
136)	Phenanthrene	(4)	9.040	178	858934	30.000
137)	Anthracene	(4)	9.077	178	895168	30.000
139)	Carbazole	(4)	9.216	167	821727	30.000
140)	Methyl parathion	(4)	9.334	109	192465	30.000
141)	Di-n-butylphthalate	(4)	9.516	149	916649	30.000
142)	Parathion	(4)	9.660	109	127541	30.000
143)	4-Nitroquinoline-1-oxide	(4)	9.676	190	60180	30.000
144)	Methapyrilene	(4)	9.746	97	254059	30.000
145)	Isodrin	(4)	9.885	193	87704	30.000
146)	Fluoranthene	(4)	10.013	202	950703	30.000
151)	Benzidine	(5)	10.136	184	1642476	90.000
153)	Pyrene	(5)	10.195	202	974018	30.000
157)	p-Dimethylaminoazobenzene	(5)	10.457	225	202458	30.000
158)	Chlorobenzilate	(5)	10.494	139	279658	30.000
159)	3,3'-Dimethylbenzidine	(5)	10.735	212	468918	30.000
160)	Butylbenzylphthalate	(5)	10.756	149	410531	30.000
161)	2-Acetylaminofluorene	(5)	10.954	181	367496	30.000
163)	3,3'-Dichlorobenzidine	(5)	11.222	252	338747	30.000
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.227	231	171974	30.000
165)	Benzo(a)anthracene	(5)	11.238	228	906490	30.000
166)	Chrysene-d12	(5)	11.249	240	1010383	40.000
167)	Chrysene	(5)	11.270	228	854897	30.000
168)	bis(2-Ethylhexyl)phthalate	(5)	11.291	149	547216	30.000

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

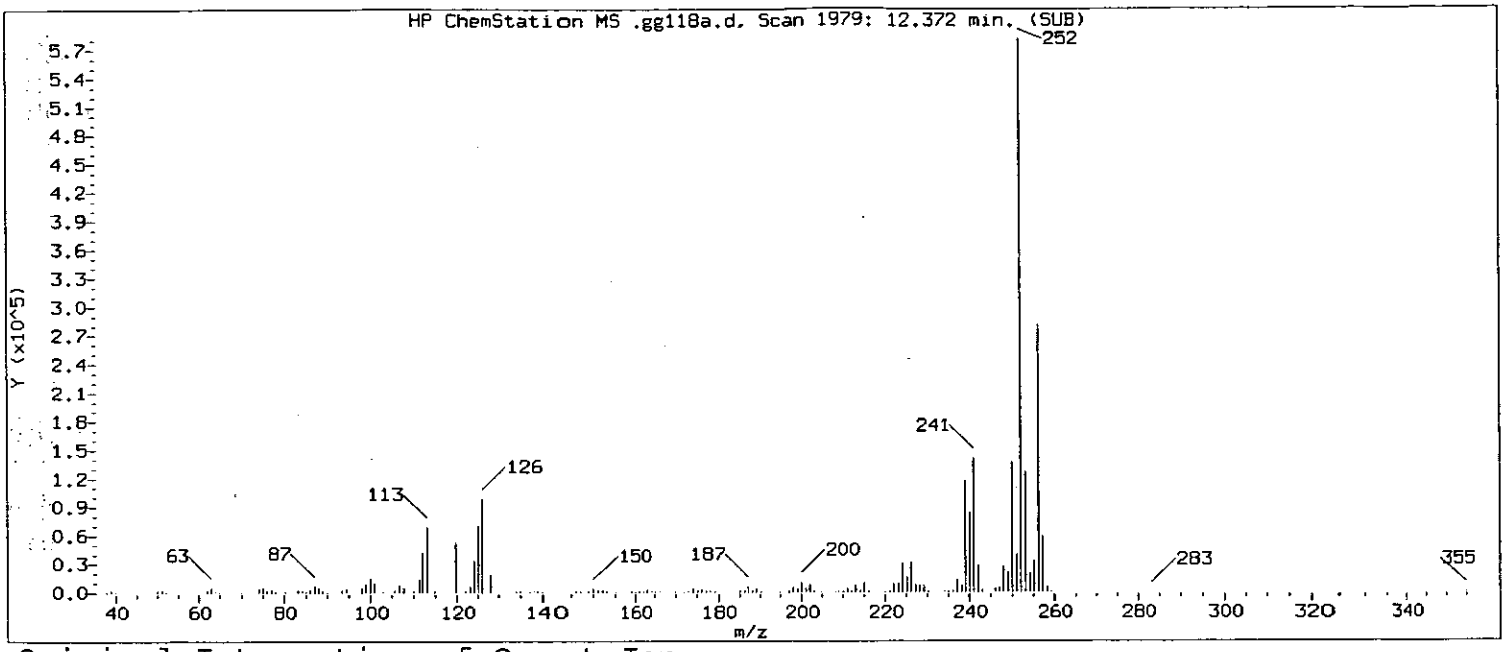
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

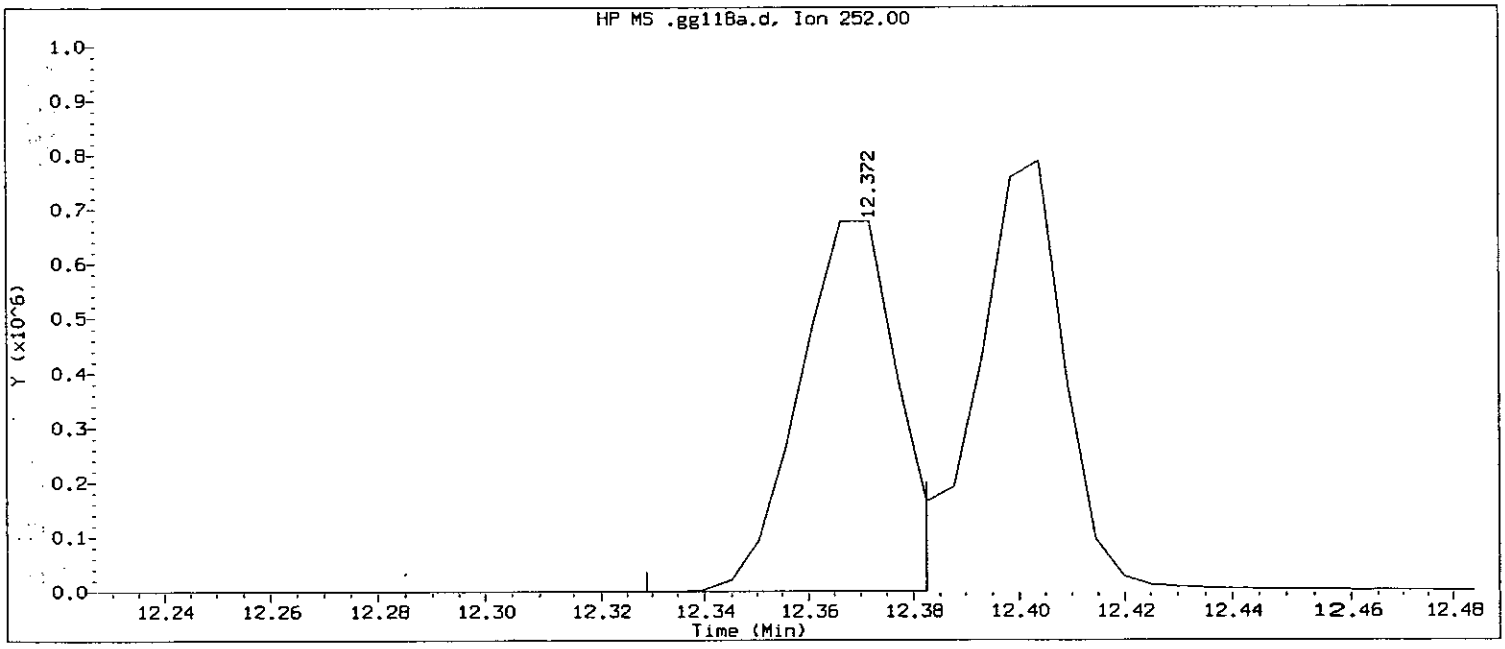
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188) 6-Methylchrysene	(5)	11.730	242	620142	30.000
169) Di-n-octylphthalate	(6)	11.981	149	883521	30.000
189) Dibenz(a,h)acridine	(6)	13.827	279	647402	30.000
190) Dibenz(a,j)acridine	(6)	13.891	279	616116	30.000
170) 7,12-Dimethylbenz[a]anthracene	(6)	12.366	256	431732	30.000
171) Benzo(b) fluoranthene	(6)	12.372	252	864917	30.000
194) Ronnel	(4)	9.409	285	200586	30.000
172) Benzo(k) fluoranthene	(6)	12.404	252	903610 A	30.000
173) Benzo(a) pyrene	(6)	12.741	252	794765	30.000
174) Perylene-d12	(6)	12.810	264	796093	40.000
175) 3-Methylcholanthrene	(6)	13.163	268	459450	30.000
176) Indeno(1,2,3-cd)pyrene	(6)	14.099	276	876195	30.000
177) Dibenz(a,h)anthracene	(6)	14.131	278	723240	30.000
178) Benzo(g,h,i)perylene	(6)	14.420	276	742586	30.000
84) 1-Chloronaphthalene	(3)	7.349	162	486029	30.000
9) 2-Fluorophenol	(1)	3.894	112	237006	30.000
14) Phenol-d5	(1)	4.857	99	336776	30.000
15) Phenol-d6	(1)	4.857	99	336776	30.000
38) Nitrobenzene-d5	(2)	5.686	82	278085	30.000
77) 2-Fluorobiphenyl	(3)	7.237	172	532858	30.000
118) 2,4,6-Tribromophenol	(3)	8.446	330	73290	30.000
155) Terphenyl-d14	(5)	10.334	244	621100	30.000

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjdO1970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:10
Date, time and analyst ID of latest file update: 30-Jul-2007 21:10 gjd01970

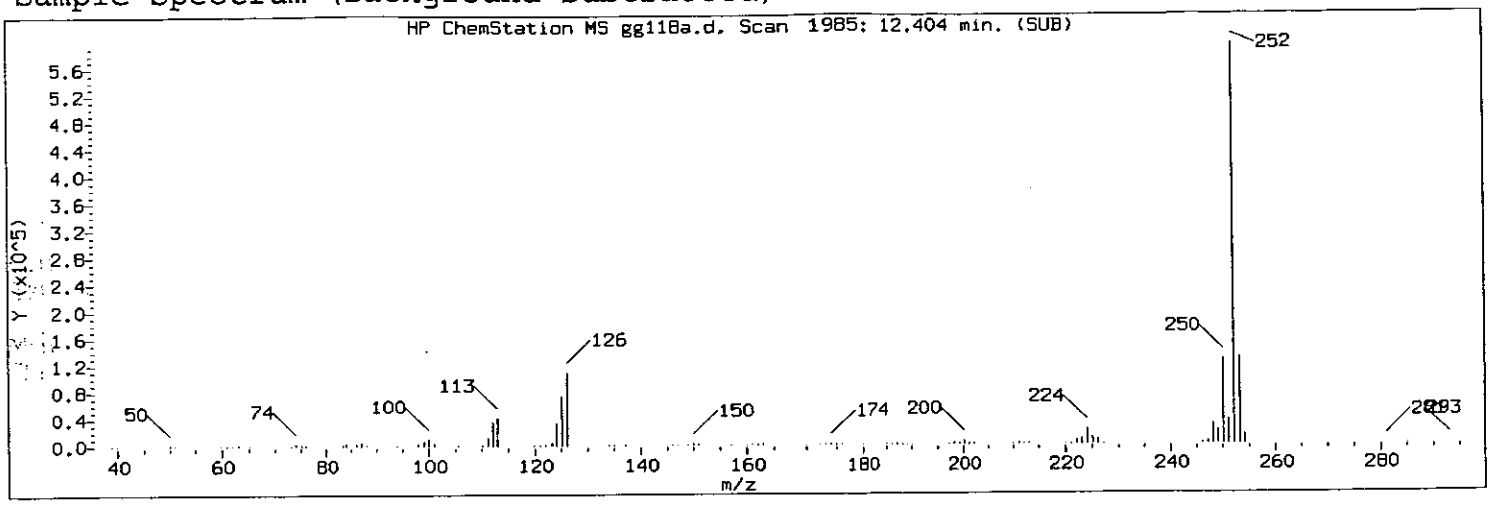
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1979
Retention Time (minutes)	:	12.372
Quant Ion	:	252
Area	:	864917
Concentration (ng/ul)	:	27.4204
Integration start scan	:	1970 Integration stop scan: 1980
Y at integration start	:	0 Y at integration end: 81

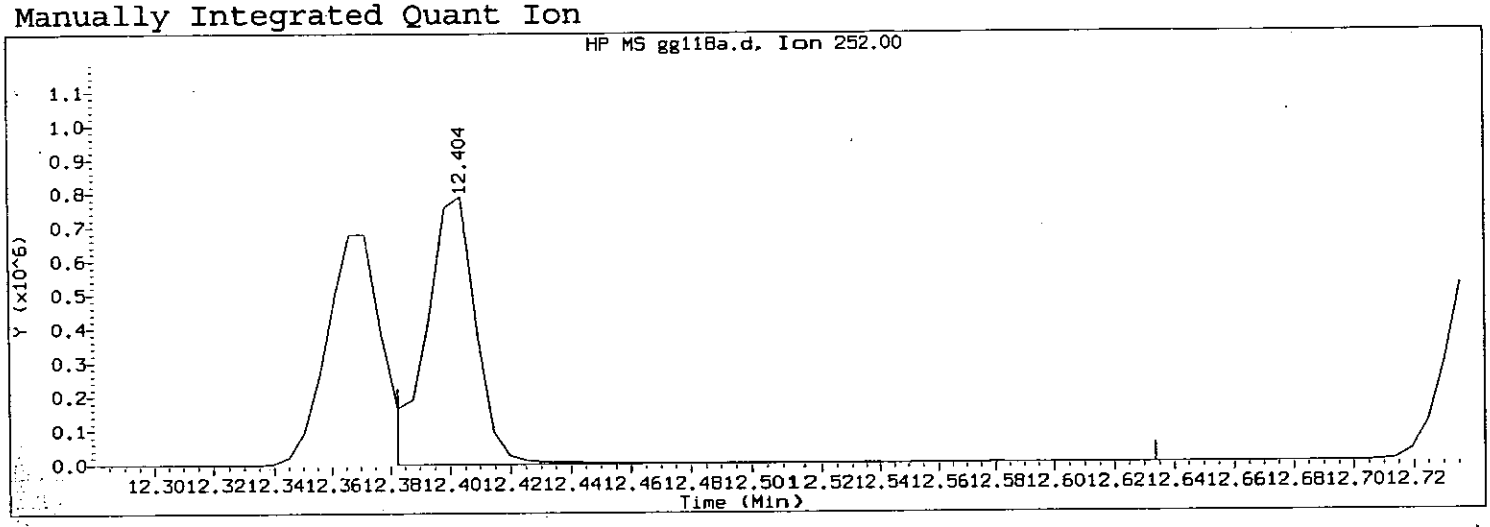
8513 6/1/07 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118a.d, generated on 07/30/2007 at 21:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118a.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:11 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:13
Date, time and analyst ID of latest file update: 30-Jul-2007 21:13 gjd01970

Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1985
Retention Time (minutes)	:	12.404
Quant Ion	:	252
Area (flag)	:	903610A
Concentration (ng/ul)	:	30.0000
Integration start scan	:	1980 Integration stop scan: 2027
Y at integration start	:	81 Y at integration end: 234

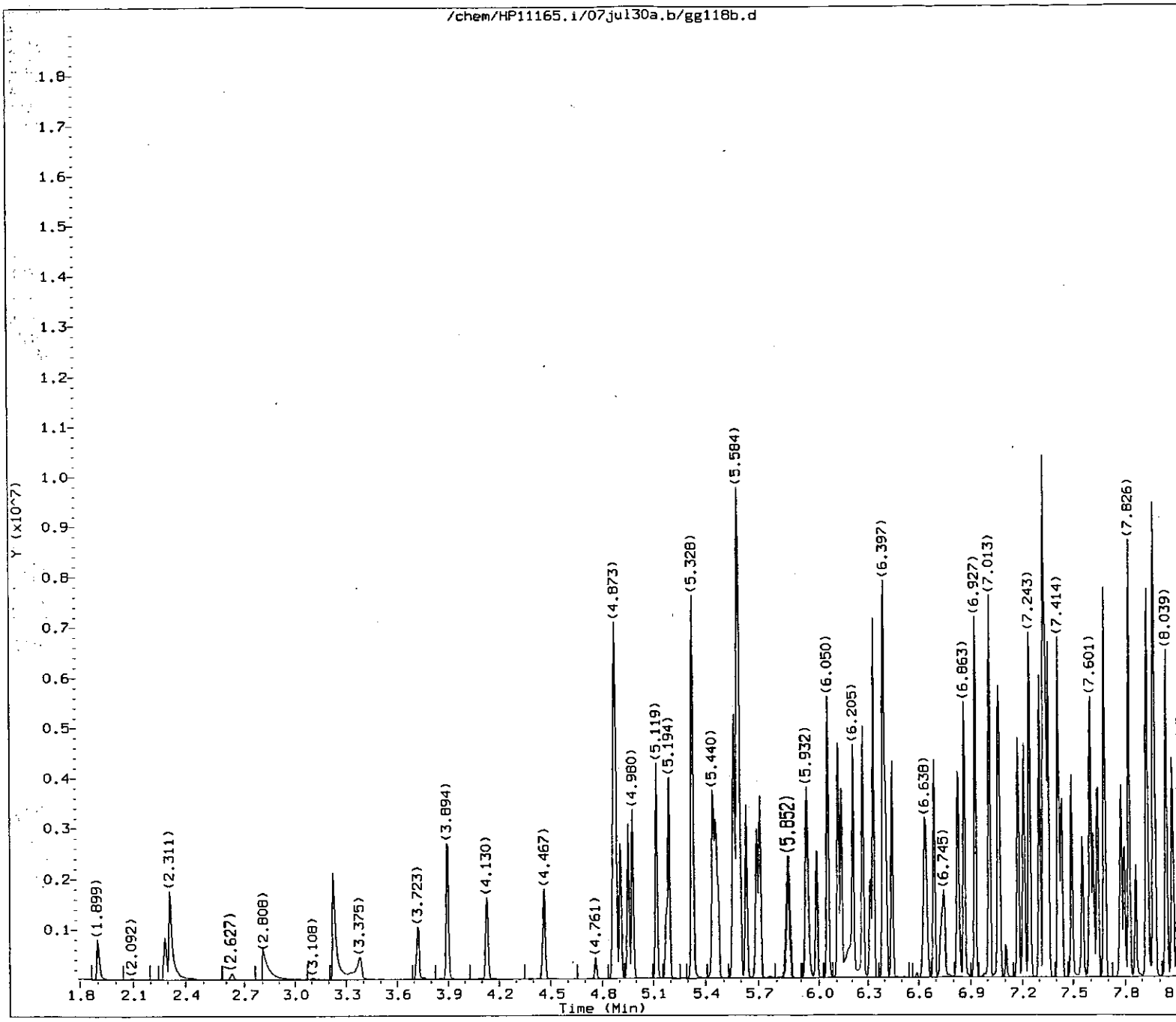
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 7/30/07

0514

GC/MS audit/management approval: [signature] 07/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118a.d, generated on 07/30/2007 at 21:13



Quant Report

Target Revision 3.5

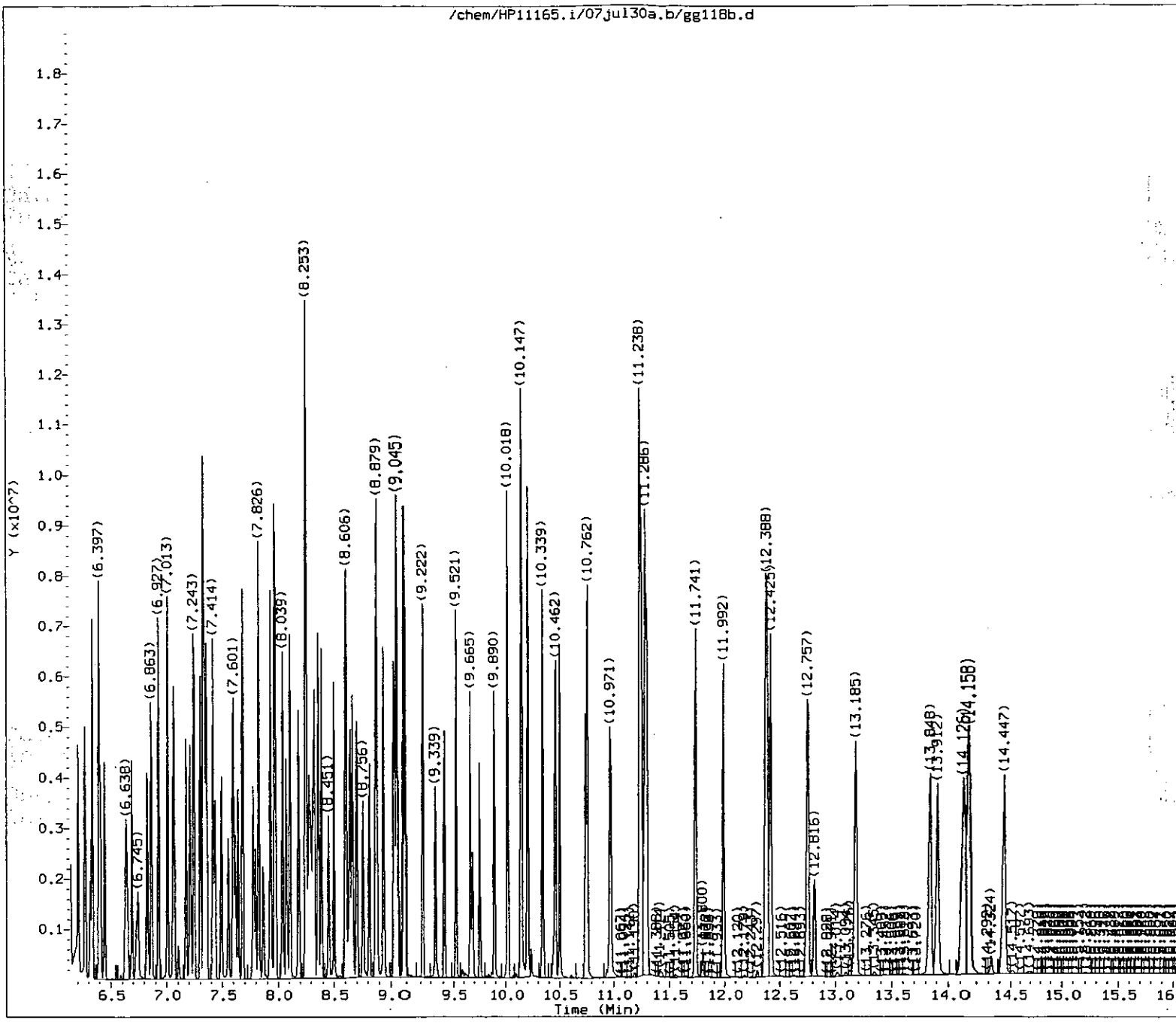
Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

8515

GJD 7/31/14



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

0516

GJH 7/30/7

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.899	88	357858	117.807
2) N-Nitrosodimethylamine	(1)	2.284	74	566669	119.887
3) Pyridine	(1)	2.311	79	1033624	119.510
5) 2-Picoline	(1)	3.226	93	1029628	120.016
6) N-Nitrosomethylethylamine	(1)	3.375	88	485033	119.458
7) Methyl methanesulfonate	(1)	3.723	80	426417	118.982
10) N-Nitrosodiethylamine	(1)	4.135	102	502450	119.115
11) Ethyl methanesulfonate	(1)	4.467	109	482319	119.892
13) Aniline	(1)	4.873	93	1571033	116.688
16) Phenol	(1)	4.884	94	1428689	119.772
17) Pentachloroethane	(1)	4.905	167	273416	118.907
18) bis(2-Chloroethyl)ether	(1)	4.953	93	963916	117.217
19) 2-Chlorophenol	(1)	4.980	128	856241	119.919
20) 1,3-Dichlorobenzene	(1)	5.119	146	838329	117.902
21) 1,4-Dichlorobenzene-d4	(1)	5.178	152	171905	40.000
22) 1,4-Dichlorobenzene	(1)	5.194	146	861296	118.012
24) Benzyl alcohol	(1)	5.328	108	682729	119.590
25) 1,2-Dichlorobenzene	(1)	5.328	146	803830	117.286
26) 2-Methylphenol	(1)	5.440	108	950253M	118.150
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.451	45	1063877	116.561
28) bis(2-Chloroisopropyl)ether	(1)	5.451	45	1063877	116.561
29) N-Nitrosopyrrolidine	(1)	5.563	100	580247	119.385
30) Acetophenone	(1)	5.563	105	1345347	117.473
31) N-Nitroso-di-n-propylamine	(1)	5.584	70	639108	113.848
32) N-Nitrosomorpholine	(1)	5.600	56	472422	114.738
33) 4-Methylphenol	(1)	5.584	108	1010642	114.142
34) o-Toluidine	(1)	5.595	106	1549934	114.994
37) Hexachloroethane	(1)	5.633	117	332714	116.711
39) Nitrobenzene	(2)	5.713	77	1012526	117.223
40) N-Nitrosopiperidine	(2)	5.852	114	518314	117.970
41) Isophorone	(2)	5.932	82	2031209	117.610
42) 2-Nitrophenol	(2)	5.991	139	458879	119.276
44) 2,4-Dimethylphenol	(2)	6.050	107	1025328	118.151
45) O,O,O-triethylphosphorothioate	(2)	6.114	198	456073	118.018
46) bis(2-Chloroethoxy)methane	(2)	6.130	93	1190441	116.948
47) Benzoic acid	(2)	6.200	105	659001	110.423
49) 2,4-Dichlorophenol	(2)	6.210	162	764499	118.554
50) 1,2,4-Trichlorobenzene	(2)	6.269	180	755568	118.235
52) Naphthalene-d8	(2)	6.317	136	798687	40.000
53) Naphthalene	(2)	6.333	128	2629565	117.026
55) 4-Chloroaniline	(2)	6.397	127	1070646	114.288
56) 2,6-Dichlorophenol	(2)	6.397	162	703275	115.497
57) Hexachloropropene	(2)	6.408	213	446264	117.757

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59)	Hexachlorobutadiene	(2)	6.446	225	386892	117.062
62)	Caprolactam	(2)	6.745	113	392381 A	118.980
63)	N-Nitrosodi-n-butylamine	(2)	6.692	84	708798	99.951
67)	4-Chloro-3-methylphenol	(2)	6.825	107	940293	118.472
68)	Safrole	(2)	6.863	162	698337	117.407
69)	2-Methylnaphthalene	(2)	6.927	142	1729725	117.066
70)	1-Methylnaphthalene	(2)	7.013	142	1705601	116.443
71)	Hexachlorocyclopentadiene	(3)	7.061	237	452380	123.823
72)	1,2,4,5-Tetrachlorobenzene	(3)	7.071	216	733125	117.595
73)	cis-Isosafrole	(3)	7.103	162	75480	12.963
74)	2,4,6-Trichlorophenol	(3)	7.173	196	541078	119.920
76)	2,4,5-Trichlorophenol	(3)	7.210	196	633865	122.122
78)	trans-Isosafrole	(3)	7.301	162	794094	104.096
79)	Isosafrole	(3)	7.301	162	794094	116.962
80)	Biphenyl	(3)	7.328	154	2164680	114.524
81)	Diphenyl	(3)	7.328	154	2164680	114.524
82)	1,1'-Biphenyl	(3)	7.328	154	2164680	114.524
83)	2-Chloronaphthalene	(3)	7.339	162	2218283M	132.430
87)	Diphenyl ether	(3)	7.414	170	1178689	117.321
88)	2-Nitroaniline	(3)	7.435	138	645868	119.277
89)	1,4-Naphthoquinone	(3)	7.494	158	651703	115.869
90)	1,4-Dinitrobenzene	(3)	7.553	168	341755	122.865
91)	Dimethylphthalate	(3)	7.601	163	2007222	118.145
92)	1,3-Dinitrobenzene	(3)	7.617	168	376804	120.778
93)	2,6-Dinitrotoluene	(3)	7.644	165	475310	117.494
94)	Acenaphthylene	(3)	7.681	152	2769081	117.211
96)	3-Nitroaniline	(3)	7.777	138	568666	118.608
97)	Acenaphthene-d10	(3)	7.799	164	521725	40.000
98)	Acenaphthene	(3)	7.826	153	1739207	116.106
99)	2,4-Dinitrophenol	(3)	7.863	184	296498	125.609
100)	Pentachlorobenzene	(3)	7.933	250	725710	118.986
102)	4-Nitrophenol	(3)	7.933	109	329586	117.103
103)	Dibenzofuran	(3)	7.970	168	2454238	116.067
104)	2,4-Dinitrotoluene	(3)	7.975	165	622704	117.925
105)	1-Naphthylamine	(3)	8.039	143	1808815	115.441
106)	2,3,4,6-Tetrachlorophenol	(3)	8.072	232	476677	119.577
107)	2-Naphthylamine	(3)	8.109	143	1870912	114.404
108)	Diethylphthalate	(3)	8.184	149	1893279	117.733
109)	Thionazin	(3)	8.248	107	324946	107.941
110)	Fluorene	(3)	8.253	166	1844064	110.638
111)	4-Chlorophenyl-phenylether	(3)	8.259	204	907331	114.261
112)	5-Nitro-o-toluidine	(3)	8.280	152	628242	119.154
113)	4-Nitroaniline	(3)	8.296	138	593194	117.384

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.312	198	420535	127.636
115)	1-Nitronaphthalene	(4)	8.328	173	417200	119.674
116)	N-Nitrosodiphenylamine	(4)	8.360	169	1498418	118.989
117)	1,2-Diphenylhydrazine	(4)	8.392	77	2205950	117.159
119)	Tetraethyldithiopyrophosphate	(4)	8.499	97	322843	112.956
120)	1,3,5-Trinitrobenzene	(4)	8.606	213	249320	126.918
121)	Diallate (peak 1)	(4)	8.601	86	757124	85.629
122)	Phorate	(4)	8.606	75	1709505	131.733
123)	Phenacetin	(4)	8.644	108	1173177	119.224
124)	4-Bromophenyl-phenylether	(4)	8.660	248	559855	120.614
125)	Diallate (peak 2)	(4)	8.671	86	258013	29.449
126)	Hexachlorobenzene	(4)	8.703	284	645263	121.917
127)	Dimethoate	(4)	8.756	87	723481	106.350
128)	Diallate TRANS/CIS	(4)	23.156	86	1015137	115.072
130)	Pentachlorophenol	(4)	8.868	266	429040	125.409
131)	Pentachloronitrobenzene	(4)	8.879	237	230555	117.510
132)	4-Aminobiphenyl	(4)	8.879	169	1743751	112.968
133)	Pronamide	(4)	8.938	173	854474	119.501
134)	Phenanthrene-d10	(4)	9.024	188	942341	40.000
135)	Dinoseb	(4)	9.029	211	555430	131.226
136)	Phenanthrene	(4)	9.045	178	3057398	118.244
137)	Anthracene	(4)	9.088	178	3181007	118.143
139)	Carbazole	(4)	9.227	167	2961066	118.980
140)	Methyl parathion	(4)	9.339	109	576125	107.892
141)	Di-n-butylphthalate	(4)	9.521	149	3269624	118.368
142)	Parathion	(4)	9.665	109	447796	117.420
143)	4-Nitroquinoline-1-oxide	(4)	9.687	190	247504	126.904
144)	Methapyrilene	(4)	9.751	97	733906	105.782
145)	Isodrin	(4)	9.890	193	310410	117.902
146)	Fluoranthene	(4)	10.018	202	3472132	119.785
151)	Benzidine	(5)	10.147	184	5375009	343.302
153)	Pyrene	(5)	10.206	202	3486257	119.806
157)	p-Dimethylaminoazobenzene	(5)	10.462	225	768152	123.303
158)	Chlorobenzilate	(5)	10.500	139	967229	117.749
159)	3,3'-Dimethylbenzidine	(5)	10.741	212	1665942	119.360
160)	Butylbenzylphthalate	(5)	10.762	149	1452676	119.119
161)	2-Acetylaminofluorene	(5)	10.971	181	1394812	123.324
163)	3,3'-Dichlorobenzidine	(5)	11.233	252	1220608	120.208
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.238	231	587829	117.043
165)	Benzo(a)anthracene	(5)	11.249	228	3209240	119.149
166)	Chrysene-d12	(5)	11.259	240	907032	40.000
167)	Chrysene	(5)	11.286	228	3127285	121.113
168)	bis(2-Ethylhexyl)phthalate	(5)	11.297	149	1939101	119.205

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

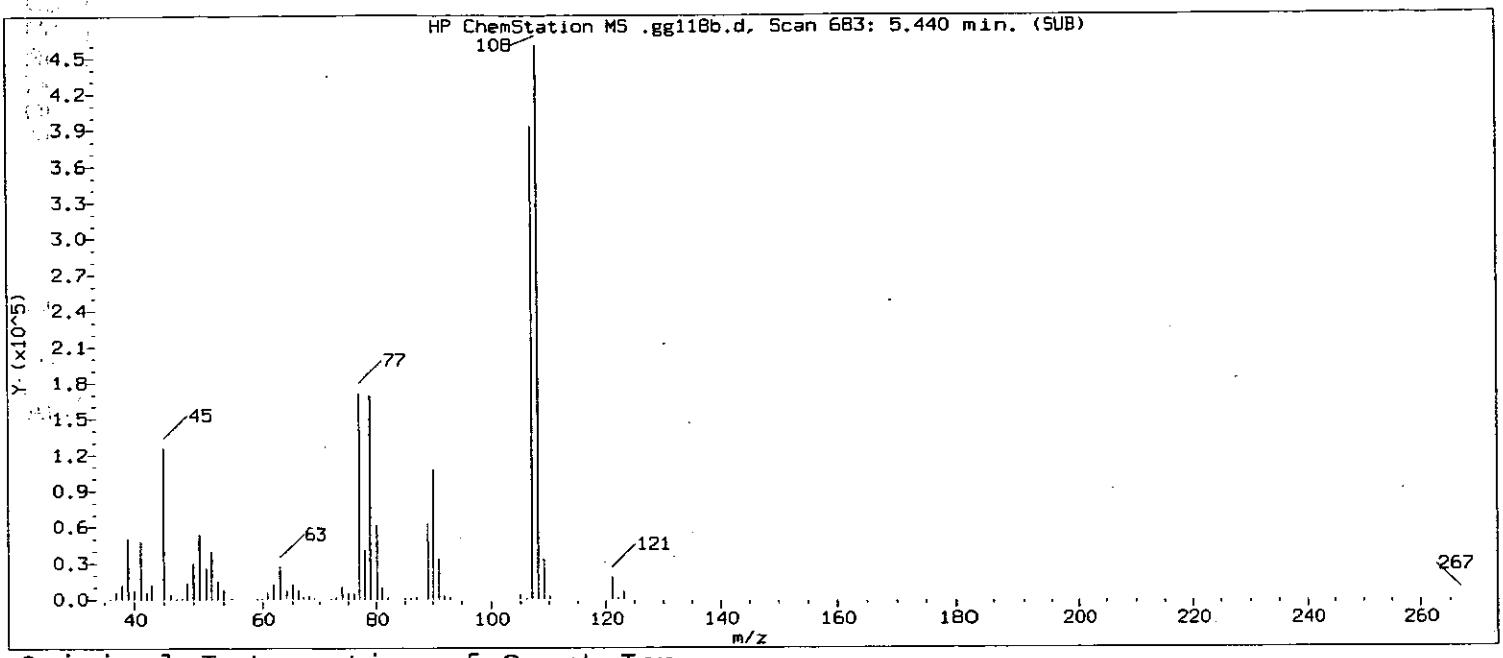
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

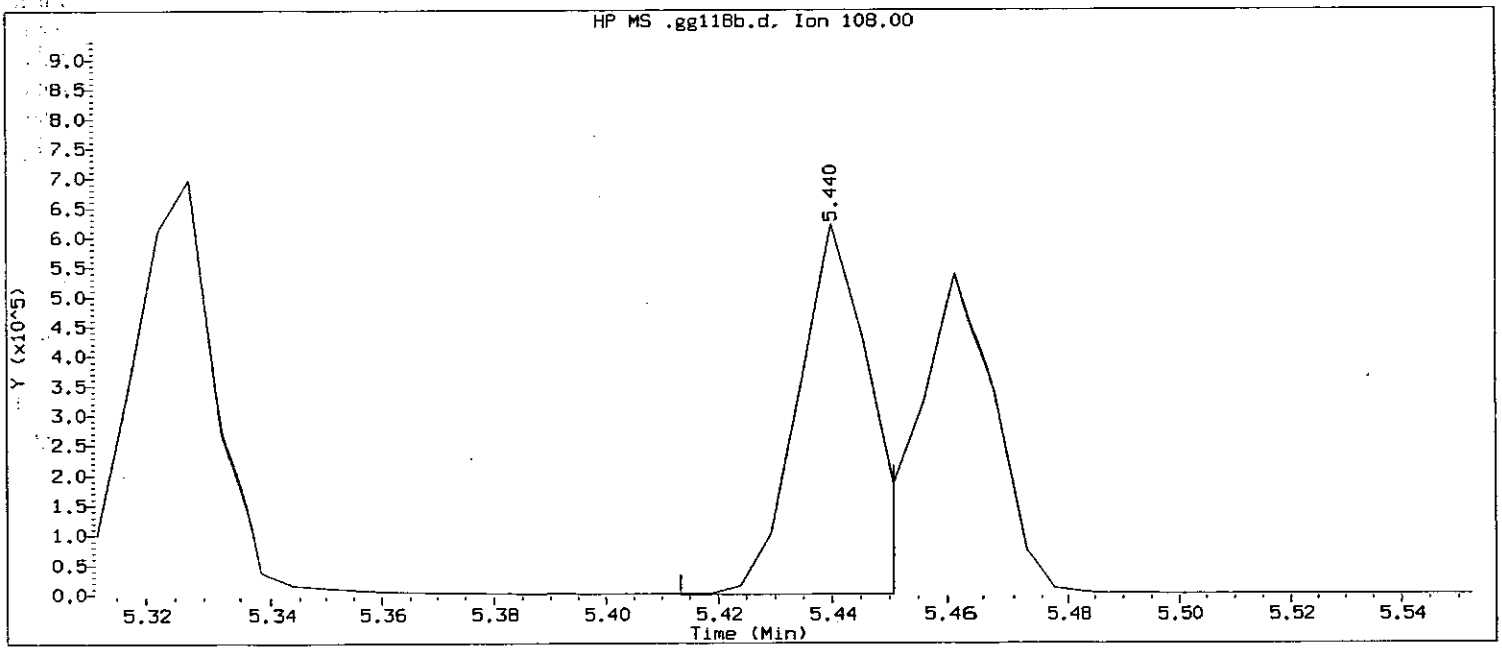
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188) 6-Methylchrysene	(5)	11.741	242	2367772	123.681
169) Di-n-octylphthalate	(6)	11.992	149	3309602	121.914
189) Dibenz(a,h)acridine	(6)	13.848	279	2499603	123.728
190) Dibenz(a,j)acridine	(6)	13.912	279	2400320	124.268
170) 7,12-Dimethylbenz[a]anthracene	(6)	12.383	256	1618736	121.970
171) Benzo(b)fluoranthene	(6)	12.393	252	3267189	122.417
194) Ronnel	(4)	9.414	285	665235	114.005
172) Benzo(k)fluoranthene	(6)	12.425	252	3263112 A	119.717
173) Benzo(a)pyrene	(6)	12.757	252	3018971	122.751
174) Perylene-d12	(6)	12.816	264	722113	40.000
175) 3-Methylcholanthrene	(6)	13.185	268	1707498	121.440
176) Indeno(1,2,3-cd)pyrene	(6)	14.126	276	3331365	122.807
177) Dibenz(a,h)anthracene	(6)	14.158	278	2752361	122.862
178) Benzo(g,h,i)perylene	(6)	14.447	276	2793199	122.162
84) 1-Chloronaphthalene	(3)	7.355	162	1620883M	112.988
9) 2-Fluorophenol	(1)	3.900	112	879632	120.443
14) Phenol-d5	(1)	4.868	99	1204563	118.225
15) Phenol-d6	(1)	4.868	99	1204563	118.225
38) Nitrobenzene-d5	(2)	5.691	82	1023906	118.690
77) 2-Fluorobiphenyl	(3)	7.243	172	1865229	115.887
118) 2,4,6-Tribromophenol	(3)	8.451	330	290045	123.248
155) Terphenyl-d14	(5)	10.345	244	2303827	121.947

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:14
Date, time and analyst ID of latest file update: 30-Jul-2007 21:14 gjd01970

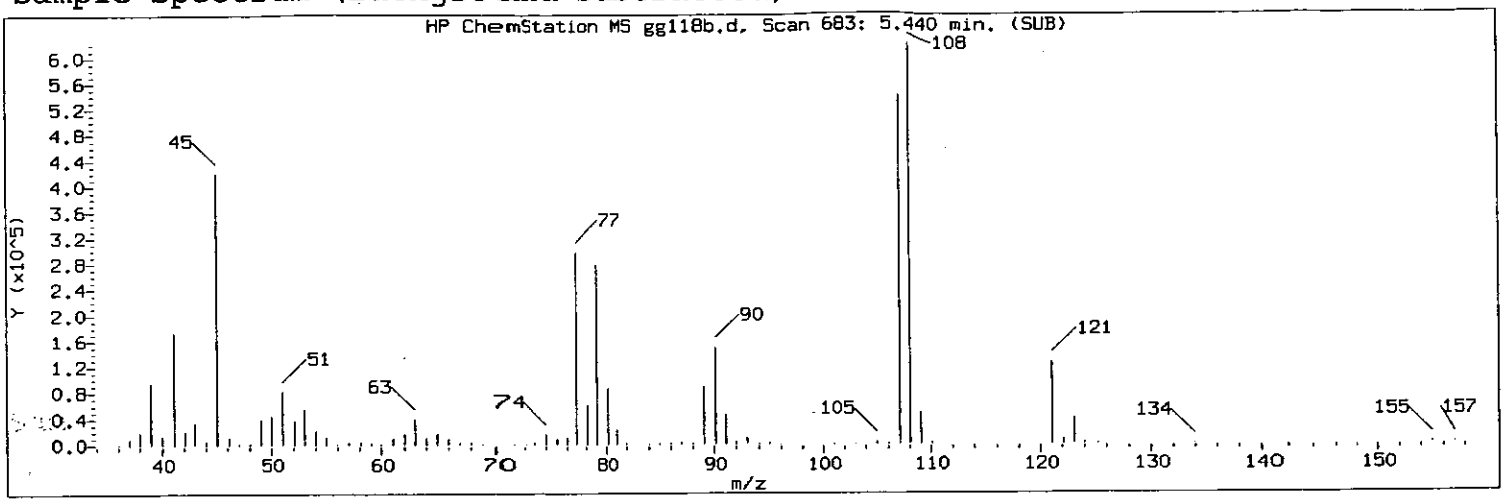
Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number : 26
Compound Name : 2-Methylphenol
Scan Number : 683
Retention Time (minutes): 5.440
Quant Ion : 108
Area : 520077
Concentration (ng/ul) : 83.2071
Integration start scan : 677 Integration stop scan: 684
Y at integration start : 0 Y at integration end: 0

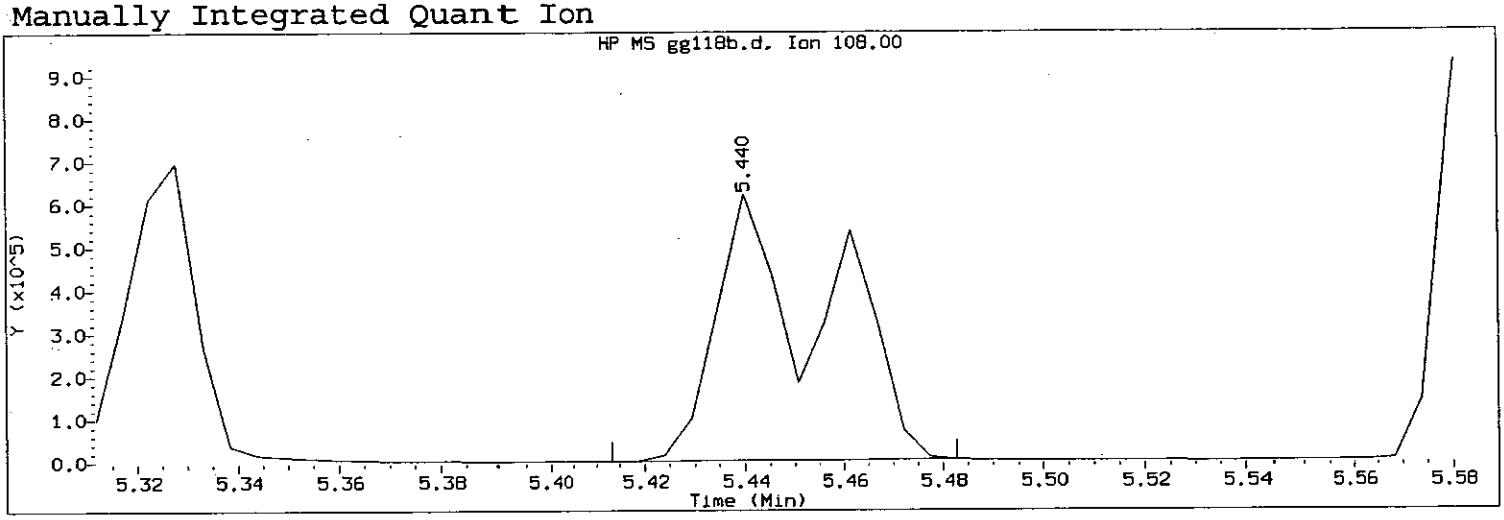
8521 GJD 7/30/7

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number	:	26
Compound Name	:	2-Methylphenol
Scan Number	:	683
Retention Time (minutes)	:	5.440
Quant Ion	:	108
Area (flag)	:	950253 M
Concentration (ng/ul)	:	118.1498
Integration start scan	:	677 Integration stop scan: 690
Y at integration start	:	937 Y at integration end: 4080

Reason for manual integration (circle one): missed peak improper integrati

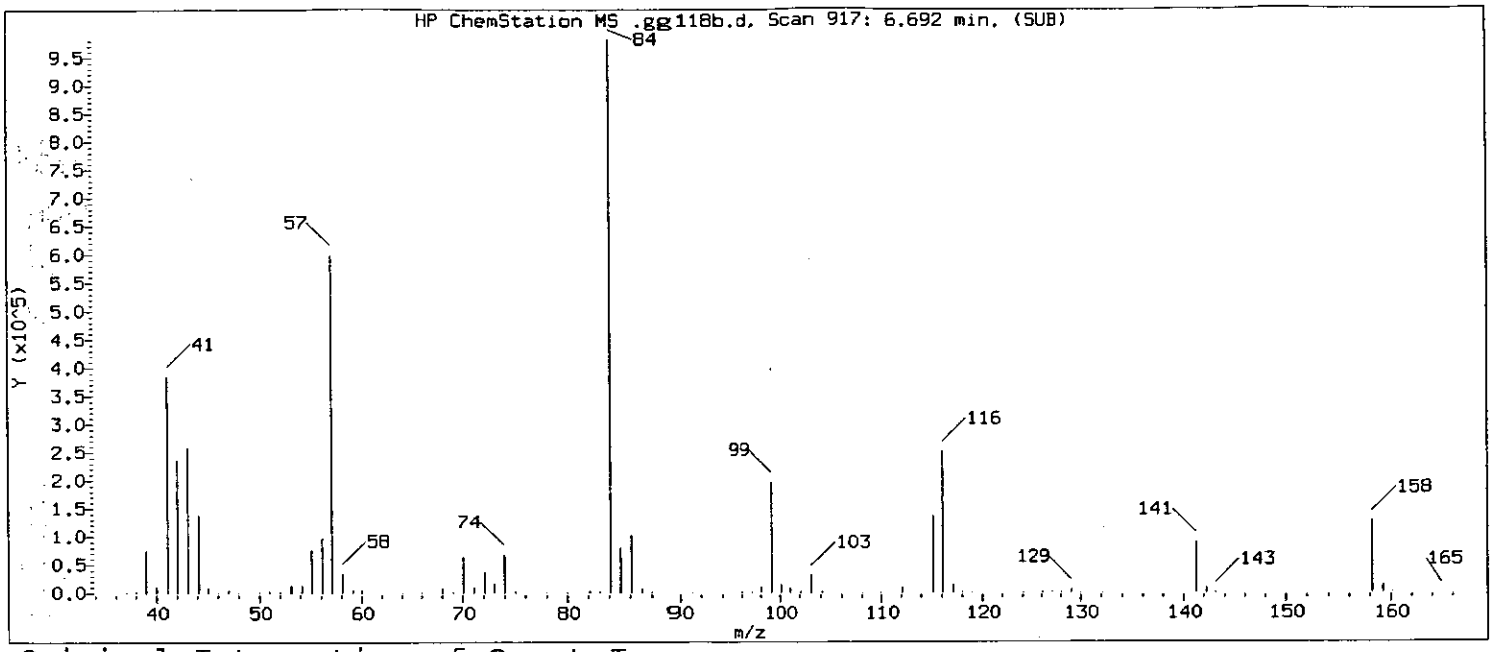
Analyst responsible for change: 1970 7/30/7

0522

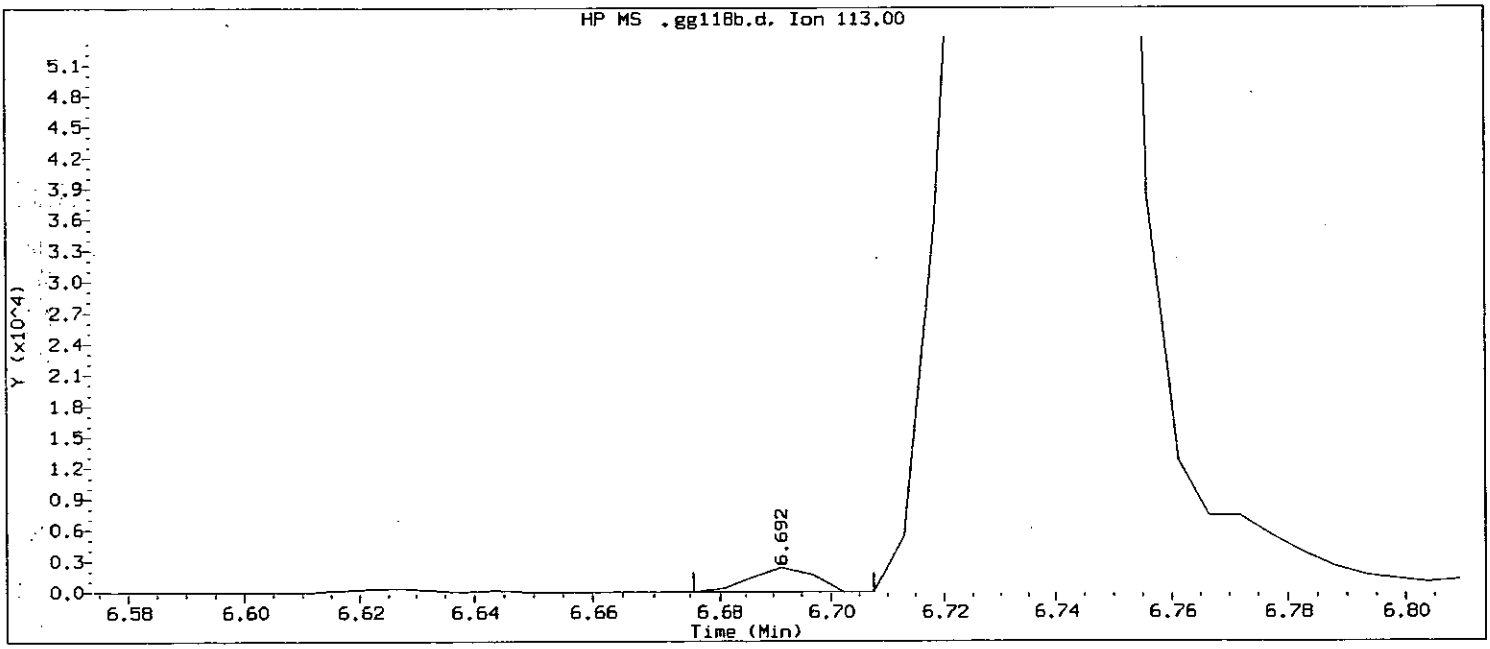
GC/MS audit/management approval: 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:14
Date, time and analyst ID of latest file update: 30-Jul-2007 21:14 gjd01970

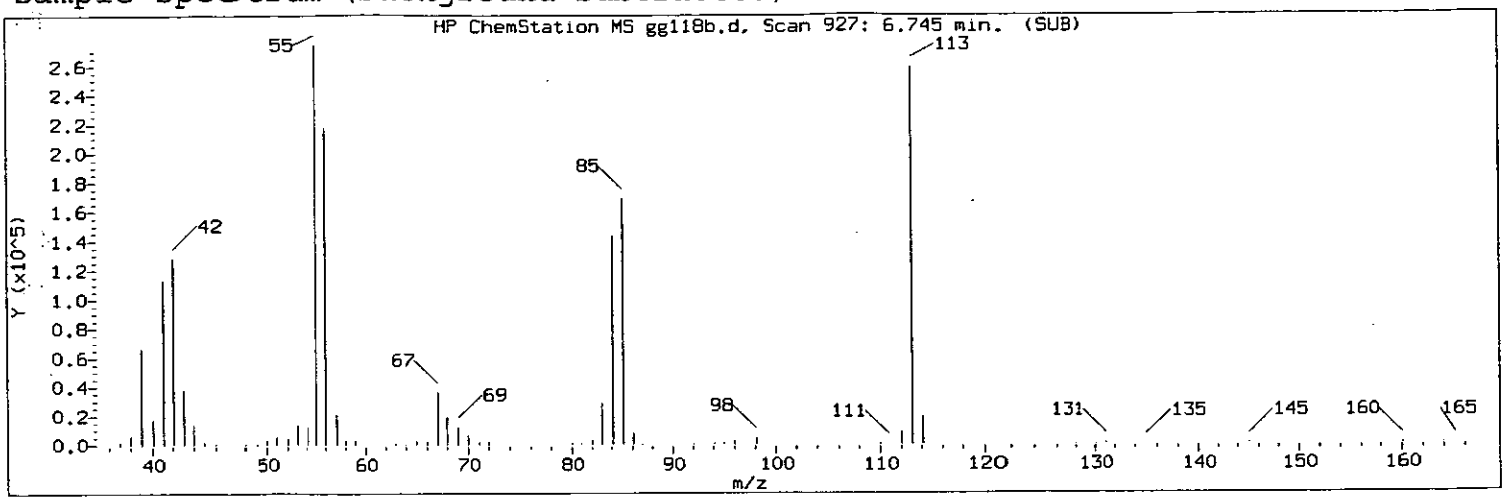
Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number : 62
Compound Name : Caprolactam
Scan Number : 917
Retention Time (minutes): 6.692
Quant Ion : 113
Area : 1863
Concentration (ng/ul) : 1.1154
Integration start scan : 913 Integration stop scan: 919
Y at integration start : 0 Y at integration end: 0

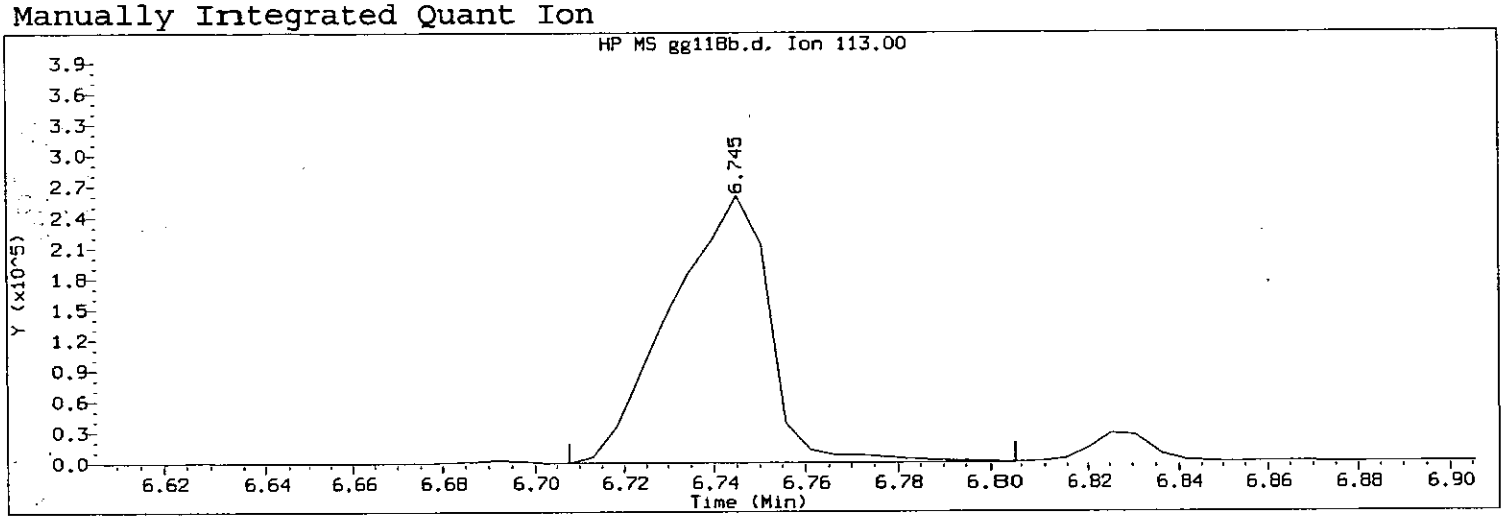
8523 GJD 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

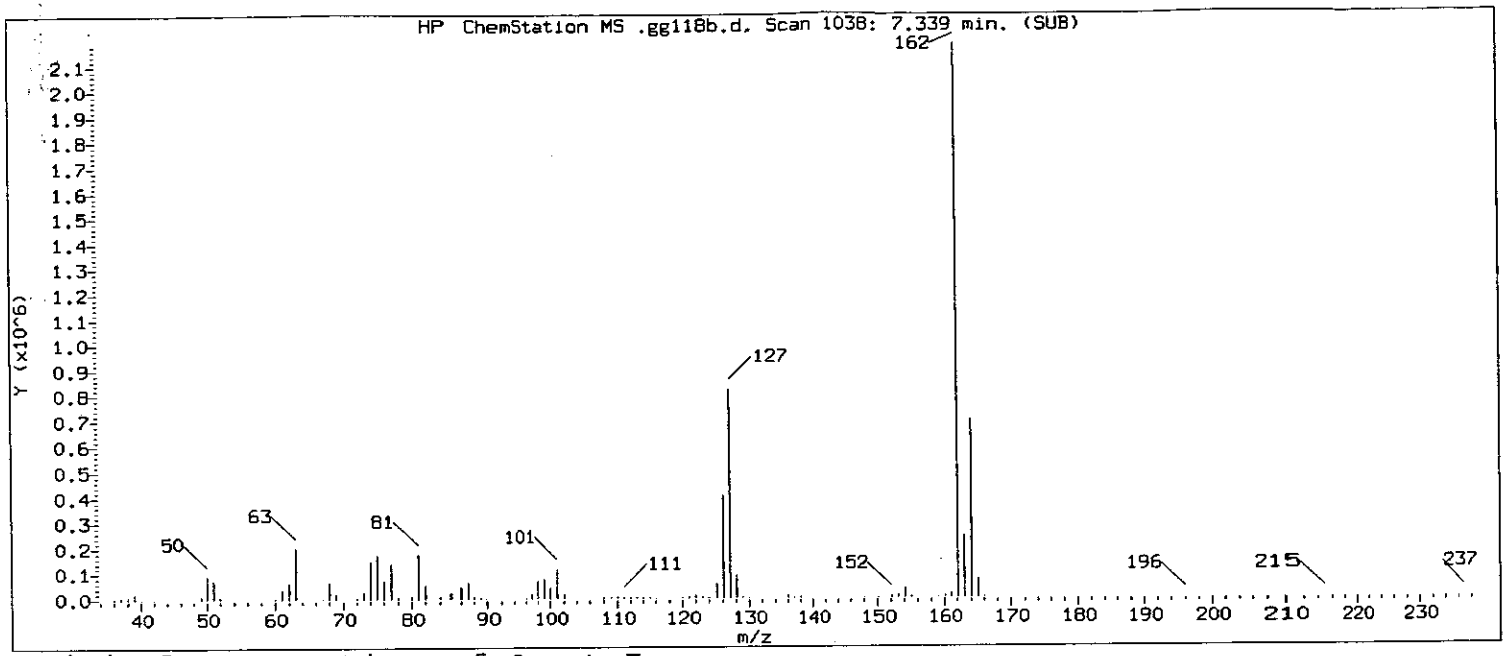
Compound Number : 62
Compound Name : Caprolactam
Scan Number : 927
Retention Time (minutes): 6.745
Quant Ion : 113
Area (flag) : 392381A
Concentration (ng/ul) : 118.9804
Integration start scan : 919 Integration stop scan: 937
Y at integration start : 0 Y at integration end: 148

Reason for manual integration (circle one): missed peak improper integrati

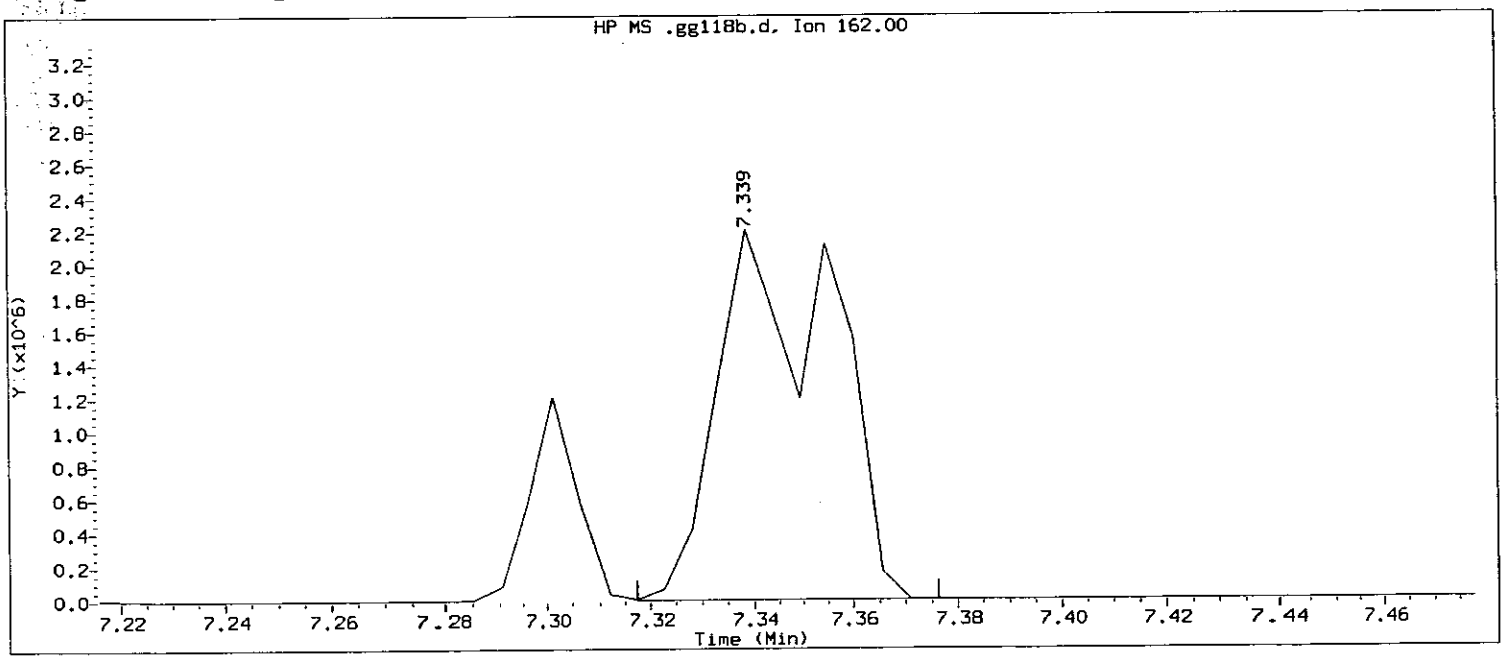
Analyst responsible for change: 1970 7/30/07

GC/MS audit/management approval: 0524 7/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:14
Date, time and analyst ID of latest file update: 30-Jul-2007 21:14 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

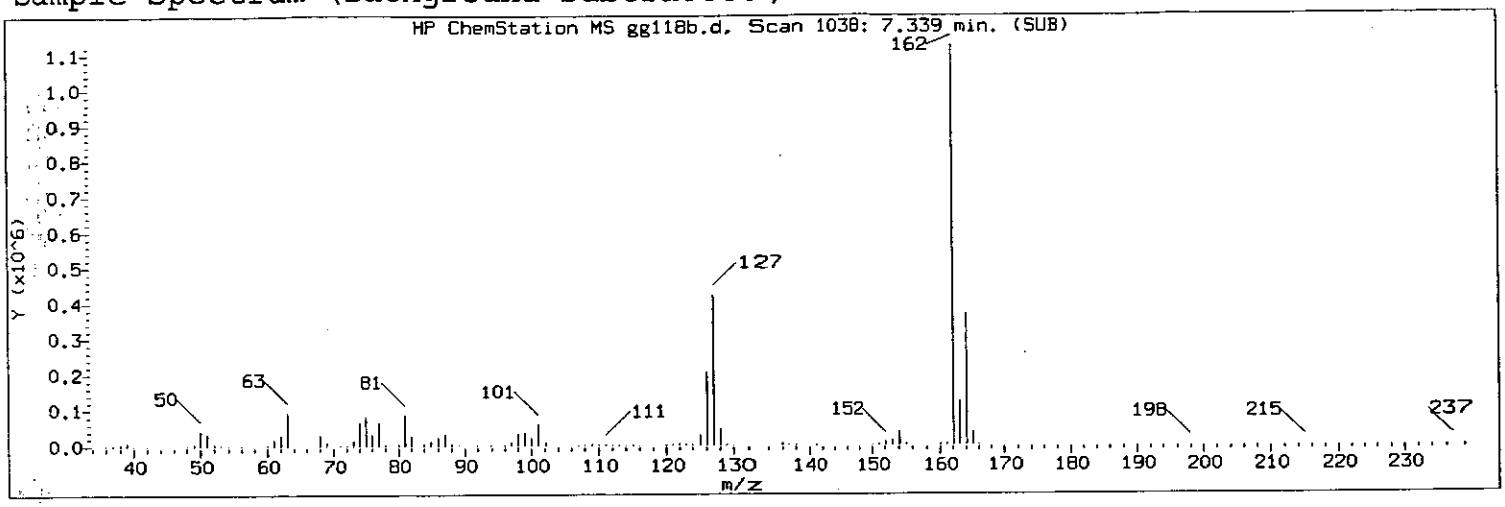
Compound Number	: 83
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1038
Retention Time (minutes)	: 7.339
Quant Ion	: 162
Area	: 3455333
Concentration (ng/ul)	: 157.7420
Integration start scan	: 1033 Integration stop scan: 1044
Y at integration start	: 494 Y at integration end: 325

GSM70 7/30/07

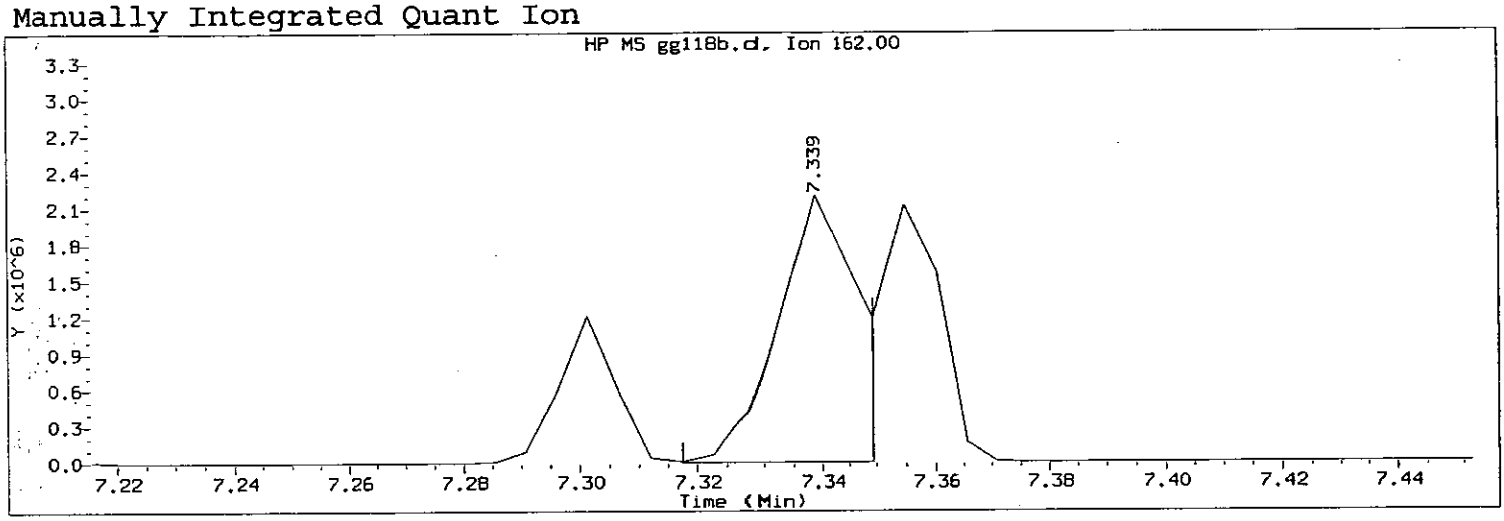
8525

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number	: 83
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1038
Retention Time (minutes)	: 7.339
Quant Ion	: 162
Area (flag)	: 2218283 M
Concentration (ng/ul)	: 132.4301
Integration start scan	: 1033 Integration stop scan: 1039
Y at integration start	: 494 Y at integration end: 402

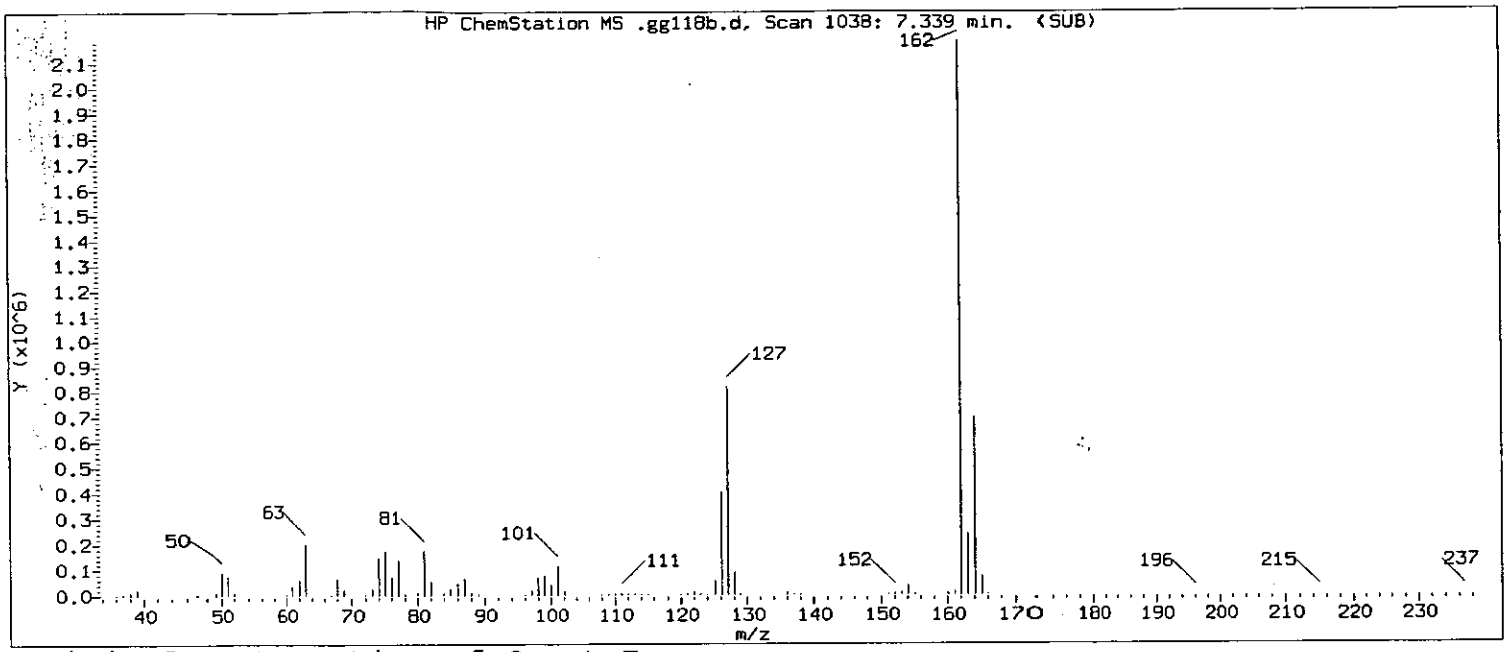
Reason for manual integration (circle one): missed peak (improper integrat

Analyst responsible for change: [signature] 1470 7/30/07

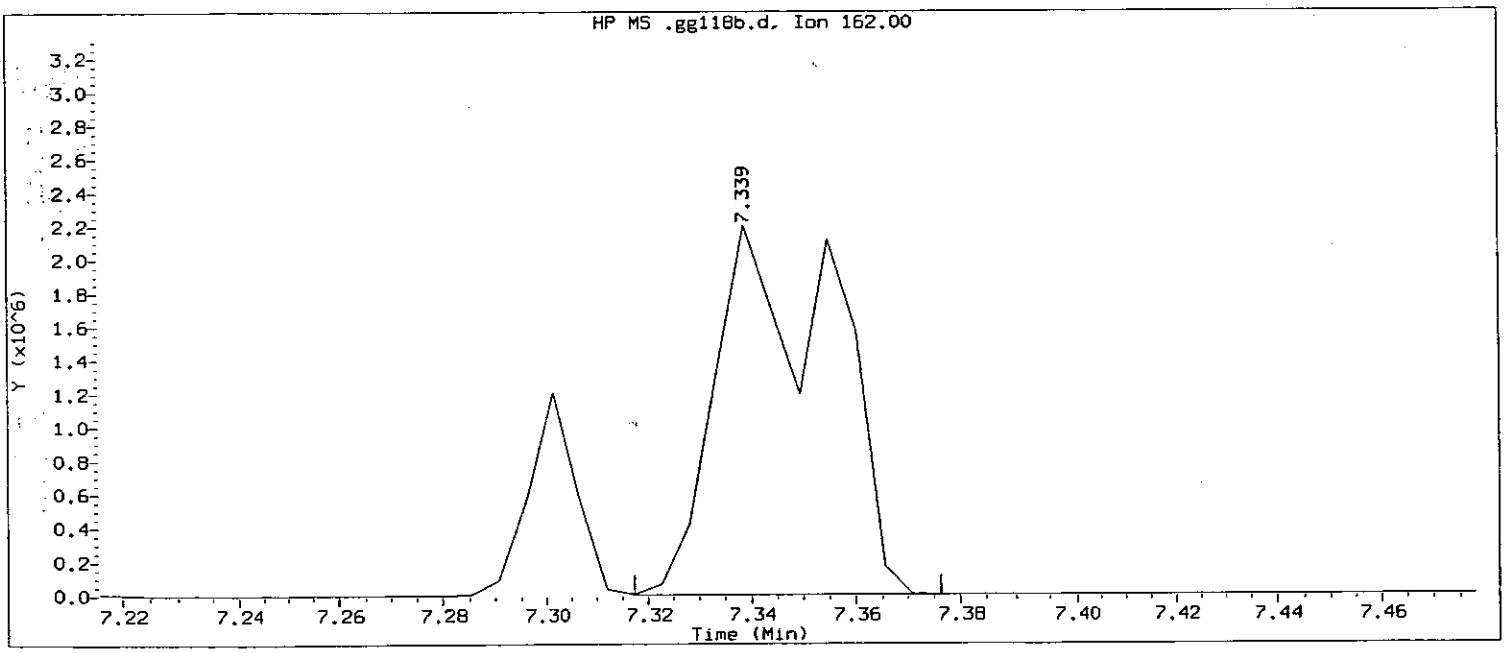
0526

GC/MS audit/management approval: [signature] 8/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:14
Date, time and analyst ID of latest file update: 30-Jul-2007 21:14 gjd01970

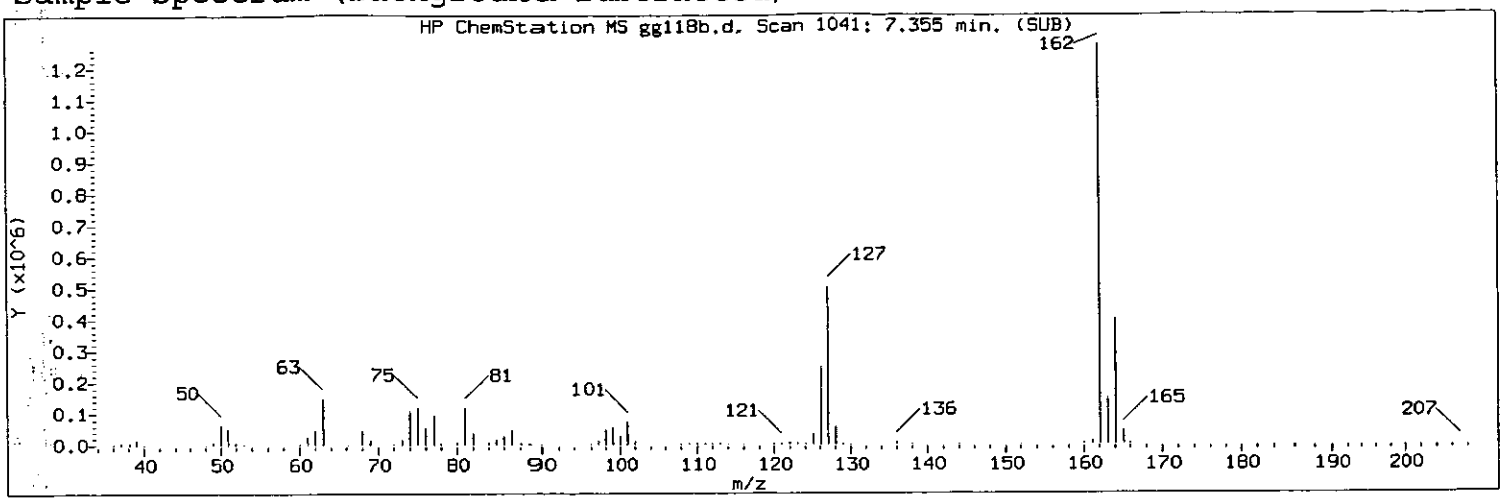
Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1038
Retention Time (minutes): 7.339
Quant Ion : 162
Area : 3454566
Concentration (ng/ul) : 157.1256
Integration start scan : 1033 Integration stop scan: 1044
Y at integration start : 741 Y at integration end: 510

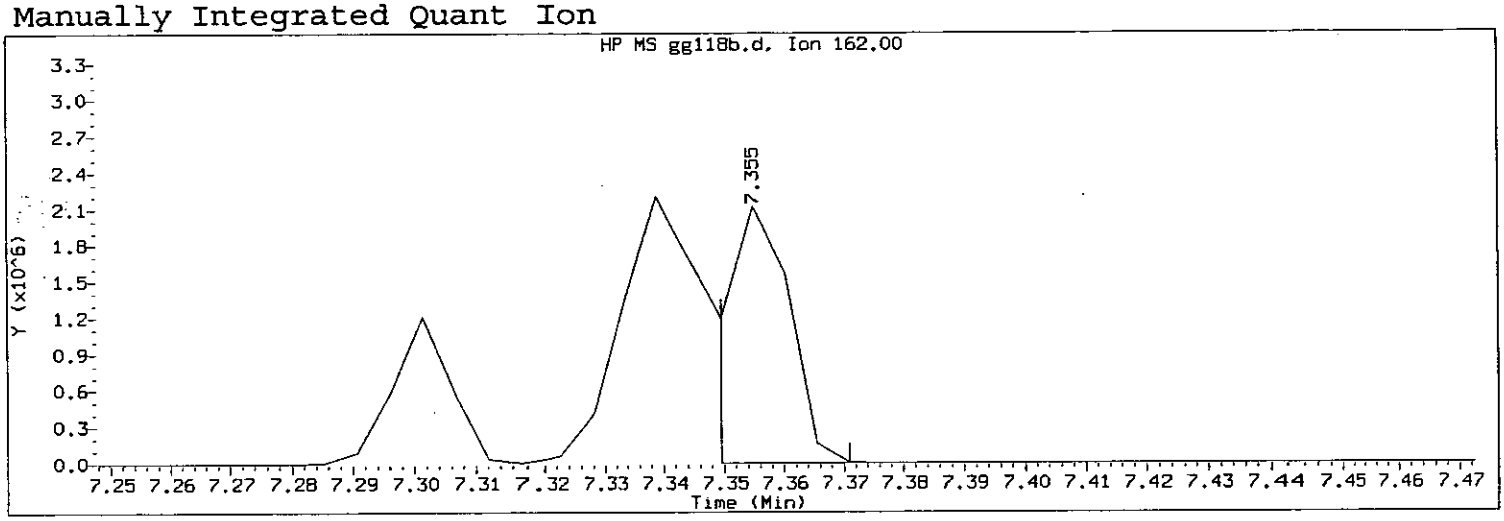
8527 BMP 7/30/7

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1041
Retention Time (minutes): 7.355
Quant Ion : 162
Area (flag) : 1620883 M
Concentration (ng/ul) : 112.9876
Integration start scan : 1039 Integration stop scan: 1043
Y at integration start : 307 Y at integration end: 307

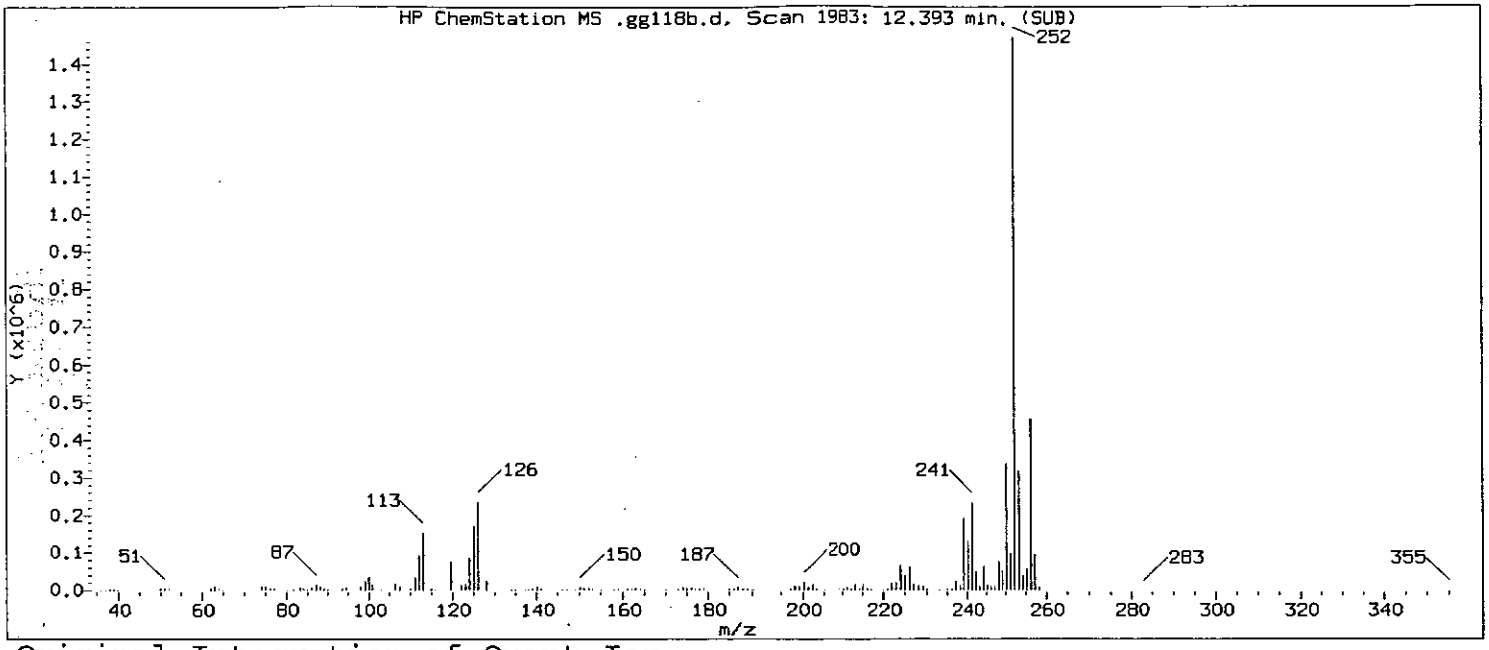
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: 1470 7/30/07

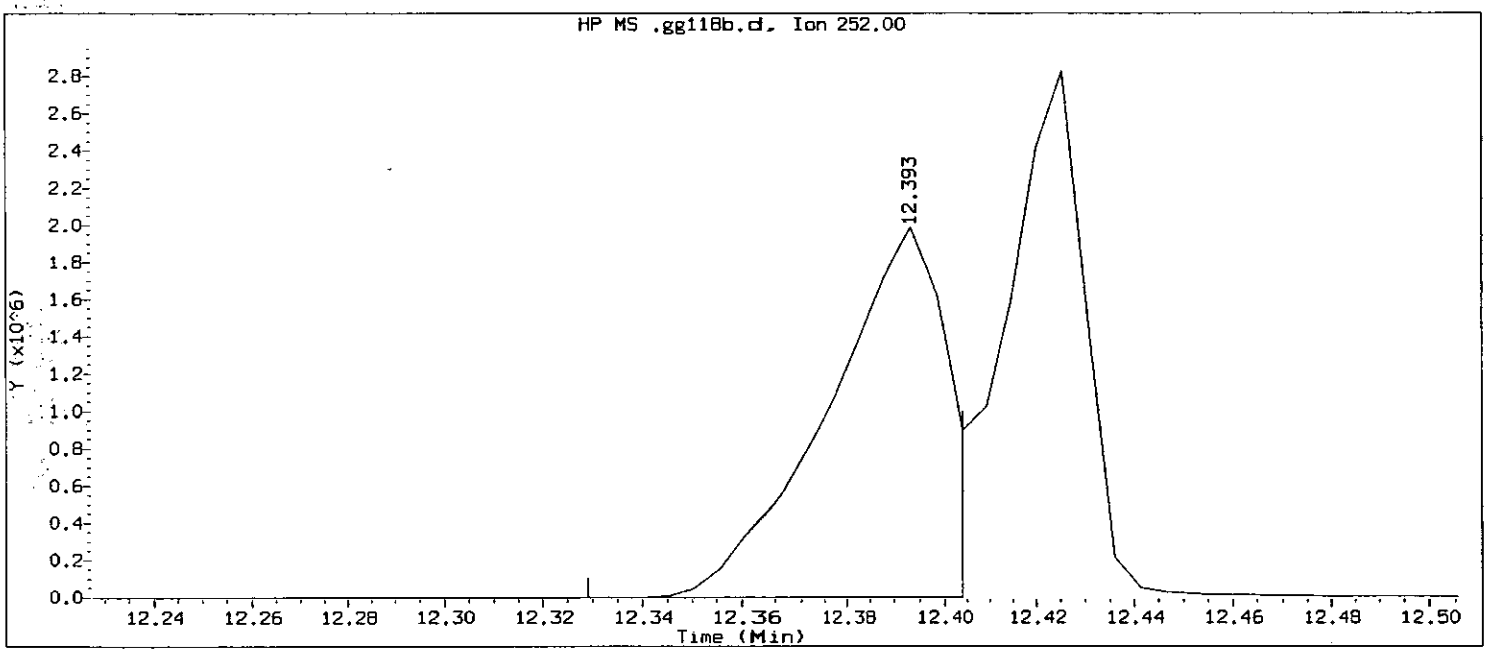
0528

GC/MS audit/management approval: 7/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:14
Date, time and analyst ID of latest file update: 30-Jul-2007 21:14 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

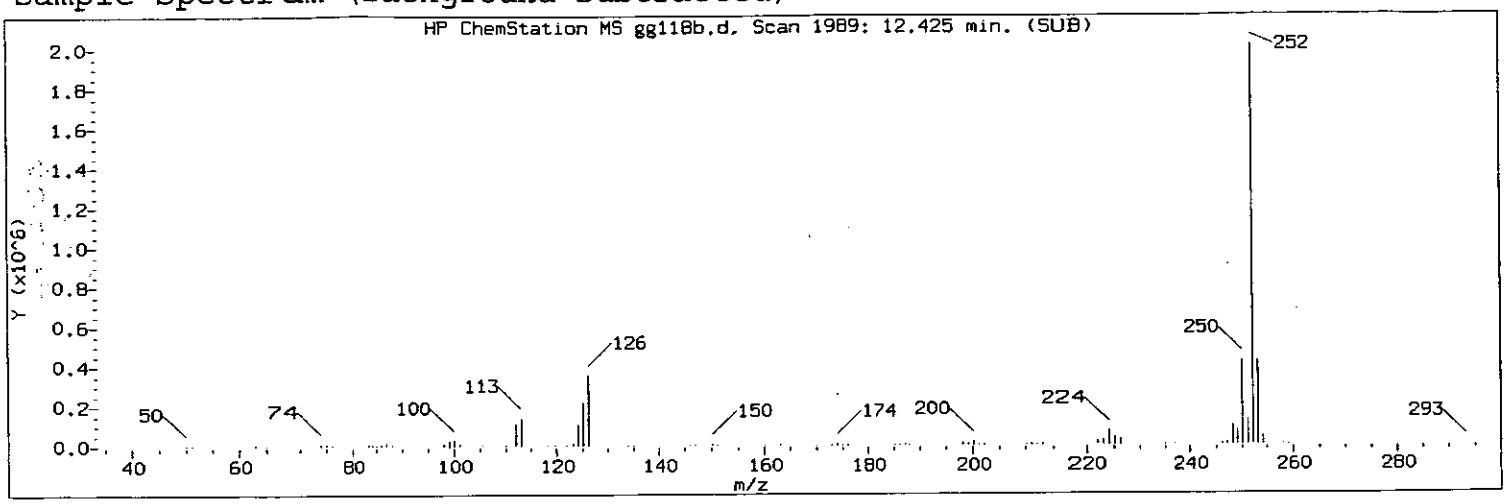
Compound Number	: 172
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1983
Retention Time (minutes)	: 12.393
Quant Ion	: 252
Area	: 3267187
Concentration (ng/ul)	: 119.7916
Integration start scan	: 1970 Integration stop scan: 1984
Y at integration start	: 160 Y at integration end: 610

8529

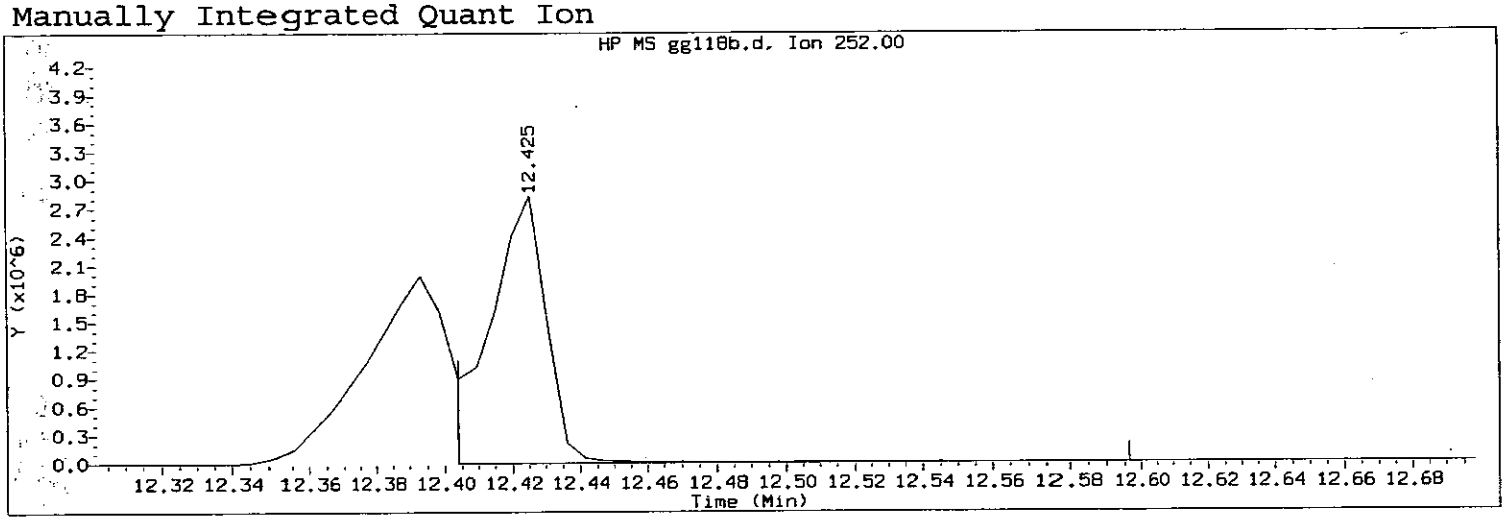
GJ/KK 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118b.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 20:40 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:16
Date, time and analyst ID of latest file update: 30-Jul-2007 21:16 gjd01970

Sample Name: SSTD120 Lab Sample ID: STD2057

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1989
Retention Time (minutes)	:	12.425
Quant Ion	:	252
Area (flag)	:	3263112A
Concentration (ng/ul)	:	119.7167
Integration start scan	:	1984 Integration stop scan: 2020
Y at integration start	:	610 Y at integration end: 622

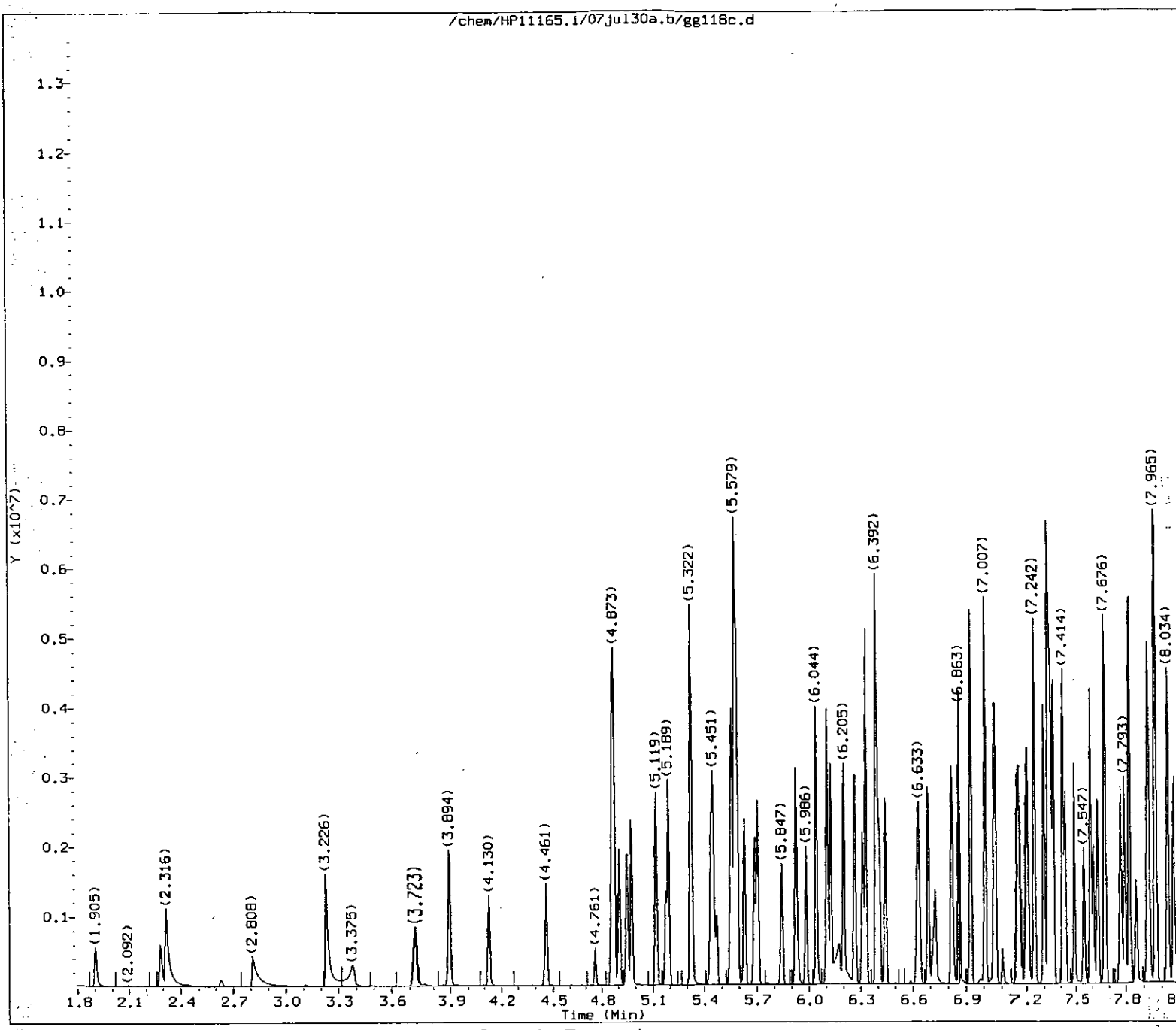
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: GJD 7/30/07

0530

GC/MS audit/management approval: 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118b.d, generated on 07/30/2007 at 21:17



Quant Report

Target Revision 3.5

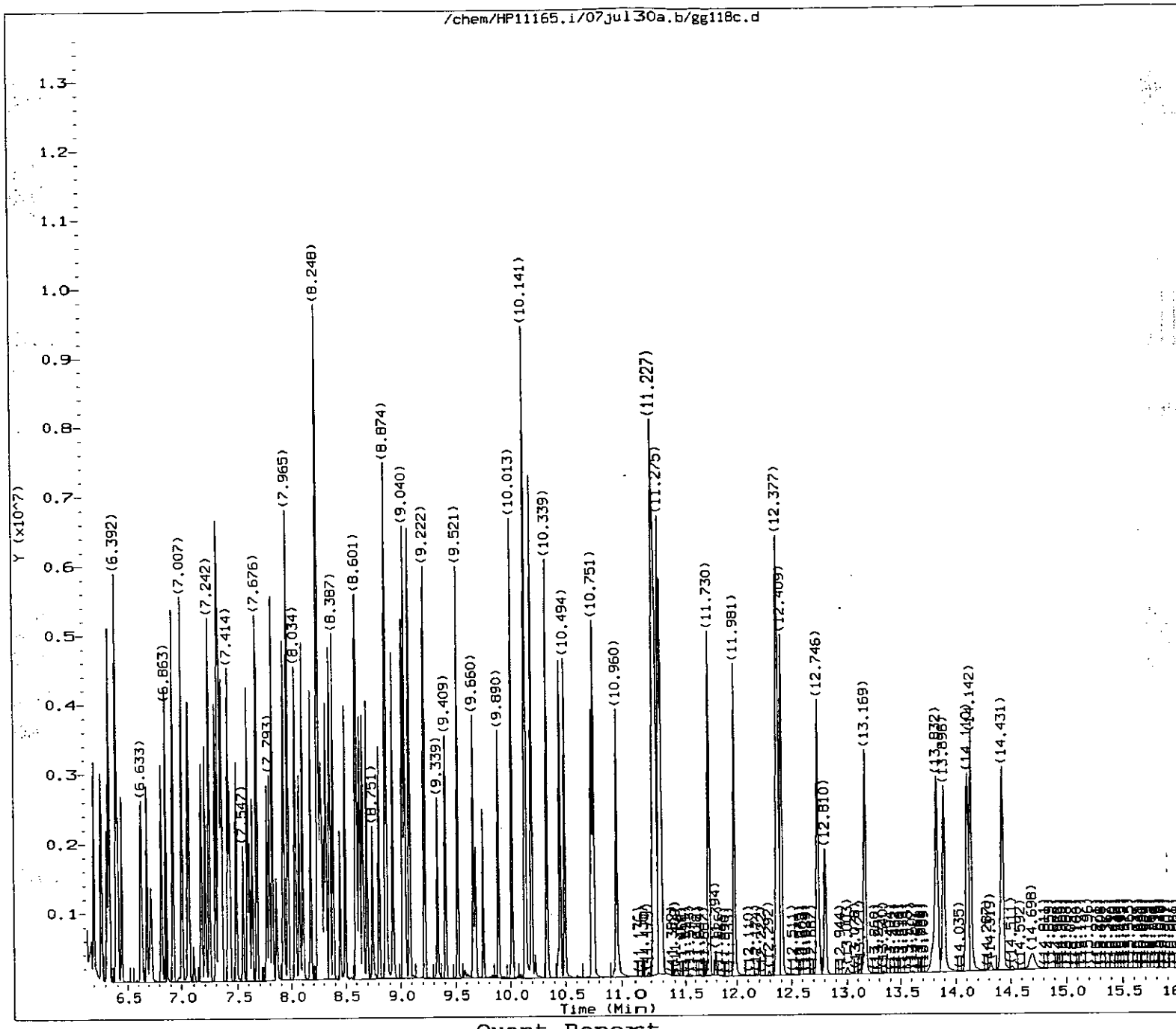
Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

0531

GJ/7/30/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

8532

CB/92
7/30/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.905	88	241776	80.474
2) N-Nitrosodimethylamine	(1)	2.284	74	377578	80.669
3) Pyridine	(1)	2.316	79	678879	79.732
5) 2-Picoline	(1)	3.226	93	685601	80.691
6) N-Nitrosomethylethylamine	(1)	3.381	88	326237	80.981
7) Methyl methanesulfonate	(1)	3.723	80	286574	80.722
10) N-Nitrosodiethylamine	(1)	4.130	102	340576	81.242
11) Ethyl methanesulfonate	(1)	4.461	109	326868	81.581
13) Aniline	(1)	4.868	93	1077627	80.775
16) Phenol	(1)	4.878	94	938033	79.831
17) Pentachloroethane	(1)	4.905	167	187718	81.837
18) bis(2-Chloroethyl)ether	(1)	4.953	93	668199	81.585
19) 2-Chlorophenol	(1)	4.975	128	587518	82.263
20) 1,3-Dichlorobenzene	(1)	5.119	146	564778	80.365
21) 1,4-Dichlorobenzene-d4	(1)	5.173	152	169517	40.000
22) 1,4-Dichlorobenzene	(1)	5.189	146	584429	80.799
24) Benzyl alcohol	(1)	5.322	108	460755	81.220
25) 1,2-Dichlorobenzene	(1)	5.328	146	551640	81.075
26) 2-Methylphenol	(1)	5.435	108	652108	81.468
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.451	45	723841	80.281
28) bis(2-Chloroisopropyl)ether	(1)	5.451	45	723841	80.281
29) N-Nitrosopyrrolidine	(1)	5.552	100	386920	80.485
30) Acetophenone	(1)	5.558	105	921537	81.060
31) N-Nitroso-di-n-propylamine	(1)	5.579	70	456659	81.645
32) N-Nitrosomorpholine	(1)	5.590	56	325756	80.154
33) 4-Methylphenol	(1)	5.579	108	720552	81.666
34) o-Toluidine	(1)	5.590	106	1093134	81.483
37) Hexachloroethane	(1)	5.633	117	229019	80.973
39) Nitrobenzene	(2)	5.707	77	688898	80.403
40) N-Nitrosopiperidine	(2)	5.847	114	351529	80.573
41) Isophorone	(2)	5.927	82	1374474	80.288
42) 2-Nitrophenol	(2)	5.986	139	313229	81.509
44) 2,4-Dimethylphenol	(2)	6.044	107	690145	80.250
45) O,O,O-triethylphosphorothioate	(2)	6.109	198	309223	80.579
46) bis(2-Chloroethoxy)methane	(2)	6.130	93	828533	81.494
47) Benzoic acid	(2)	6.178	105	535581	86.829
49) 2,4-Dichlorophenol	(2)	6.205	162	522898	81.291
50) 1,2,4-Trichlorobenzene	(2)	6.269	180	509659	80.402
52) Naphthalene-d8	(2)	6.312	136	790260	40.000
53) Naphthalene	(2)	6.333	128	1789851	80.336
55) 4-Chloroaniline	(2)	6.392	127	743396	80.134
56) 2,6-Dichlorophenol	(2)	6.392	162	489885	80.869
57) Hexachloropropene	(2)	6.408	213	311298	81.988

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59) Hexachlorobutadiene	(2)	6.446	225	266774	81.046
62) Caprolactam	(2)	6.729	113	266483 A	81.103
63) N-Nitrosodi-n-butylamine	(2)	6.686	84	486994	72.611
67) 4-Chloro-3-methylphenol	(2)	6.820	107	633850	80.474
68) Safrole	(2)	6.863	162	476285	80.617
69) 2-Methylnaphthalene	(2)	6.927	142	1178343	80.399
70) 1-Methylnaphthalene	(2)	7.007	142	1172441	80.596
71) Hexachlorocyclopentadiene	(3)	7.055	237	303106	82.166
72) 1,2,4,5-Tetrachlorobenzene	(3)	7.066	216	501839	80.542
73) cis-Isosafrole	(3)	7.103	162	51103	8.808
74) 2,4,6-Trichlorophenol	(3)	7.173	196	369570	81.475
76) 2,4,5-Trichlorophenol	(3)	7.205	196	423285	81.240
78) trans-Isosafrole	(3)	7.296	162	544962	71.547
79) Isosafrole	(3)	7.296	162	544962	80.389
80) Biphenyl	(3)	7.323	154	1542761	81.286
81) Diphenyl	(3)	7.323	154	1542761	81.286
82) 1,1'-Biphenyl	(3)	7.323	154	1542761	81.286
83) 2-Chloronaphthalene	(3)	7.339	162	1275450	77.595
87) Diphenyl ether	(3)	7.414	170	814322	80.912
88) 2-Nitroaniline	(3)	7.430	138	437257	80.711
89) 1,4-Naphthoquinone	(3)	7.489	158	454925	80.798
90) 1,4-Dinitrobenzene	(3)	7.547	168	229759	81.929
91) Dimethylphthalate	(3)	7.590	163	1361174	80.290
92) 1,3-Dinitrobenzene	(3)	7.612	168	257294	81.844
93) 2,6-Dinitrotoluene	(3)	7.638	165	328872	81.071
94) Acenaphthylene	(3)	7.676	152	1927256	81.257
96) 3-Nitroaniline	(3)	7.772	138	386347	80.598
97) Acenaphthene-d10	(3)	7.793	164	519664	40.000
98) Acenaphthene	(3)	7.825	153	1219127	81.131
99) 2,4-Dinitrophenol	(3)	7.858	184	192975	81.373
100) Pentachlorobenzene	(3)	7.927	250	494809	80.961
102) 4-Nitrophenol	(3)	7.922	109	228579	81.018
103) Dibenzofuran	(3)	7.965	168	1695218	80.325
104) 2,4-Dinitrotoluene	(3)	7.970	165	422089	80.167
105) 1-Naphthylamine	(3)	8.034	143	1262441	80.591
106) 2,3,4,6-Tetrachlorophenol	(3)	8.072	232	325255	81.267
107) 2-Naphthylamine	(3)	8.104	143	1304402	80.053
108) Diethylphthalate	(3)	8.179	149	1279955	79.939
109) Thionazin	(3)	8.243	107	241197	80.292
110) Fluorene	(3)	8.248	166	1345877	80.709
111) 4-Chlorophenyl-phenylether	(3)	8.253	204	653851	81.758
112) 5-Nitro-o-toluidine	(3)	8.275	152	423017	80.365
113) 4-Nitroaniline	(3)	8.285	138	406394	80.490

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.307	198	276402	82.767
115)	1-Nitronaphthalene	(4)	8.323	173	284795	81.335
116)	N-Nitrosodiphenylamine	(4)	8.355	169	1022296	80.996
117)	1,2-Diphenylhydrazine	(4)	8.387	77	1527170	80.949
119)	Tetraethyldithiopyrophosphate	(4)	8.494	97	230894	80.734
120)	1,3,5-Trinitrobenzene	(4)	8.596	213	167789	83.746
121)	Diallate (peak 1)	(4)	8.596	86	535921	60.566
122)	Phorate	(4)	8.601	75	1232706	89.629
123)	Phenacetin	(4)	8.633	108	800198	81.088
124)	4-Bromophenyl-phenylether	(4)	8.660	248	385062	82.162
125)	Diallate (peak 2)	(4)	8.665	86	177750	20.245
126)	Hexachlorobenzene	(4)	8.697	284	434344	81.579
127)	Dimethoate	(4)	8.751	87	469906	72.570
128)	Diallate TRANS/CIS	(4)	23.156	86	713671	80.810
130)	Pentachlorophenol	(4)	8.868	266	275613	80.586
131)	Pentachloronitrobenzene	(4)	8.874	237	157038	80.238
132)	4-Aminobiphenyl	(4)	8.874	169	1268101	81.637
133)	Pronamide	(4)	8.933	173	588352	81.722
134)	Phenanthrene-d10	(4)	9.018	188	938607	40.000
135)	Dinoseb	(4)	9.024	211	356082	82.921
136)	Phenanthrene	(4)	9.040	178	2125849	81.678
137)	Anthracene	(4)	9.082	178	2193073	81.175
139)	Carbazole	(4)	9.222	167	2028542	81.213
140)	Methyl parathion	(4)	9.339	109	398416	76.532
141)	Di-n-butylphthalate	(4)	9.521	149	2225613	80.593
142)	Parathion	(4)	9.660	109	307968	80.714
143)	4-Nitroquinoline-1-oxide	(4)	9.681	190	168178	84.266
144)	Methapyrilene	(4)	9.746	97	401324	63.914
145)	Isodrin	(4)	9.890	193	214551	81.202
146)	Fluoranthene	(4)	10.013	202	2380216	81.612
151)	Benzidine	(5)	10.141	184	3795854	241.913
153)	Pyrene	(5)	10.200	202	2380559	81.294
157)	p-Dimethylaminoazobenzene	(5)	10.457	225	518633	82.236
158)	Chlorobenzilate	(5)	10.494	139	669286	81.076
159)	3,3'-Dimethylbenzidine	(5)	10.735	212	1139559	81.187
160)	Butylbenzylphthalate	(5)	10.757	149	988958	80.823
161)	2-Acetylaminofluorene	(5)	10.960	181	925531	81.309
163)	3,3'-Dichlorobenzidine	(5)	11.222	252	842581	82.059
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.227	231	415503	81.898
165)	Benzo(a)anthracene	(5)	11.238	228	2199024	81.185
166)	Chrysene-d12	(5)	11.249	240	905392	40.000
167)	Chrysene	(5)	11.275	228	2172073	82.798
168)	bis(2-Ethylhexyl)phthalate	(5)	11.291	149	1328802	81.214

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

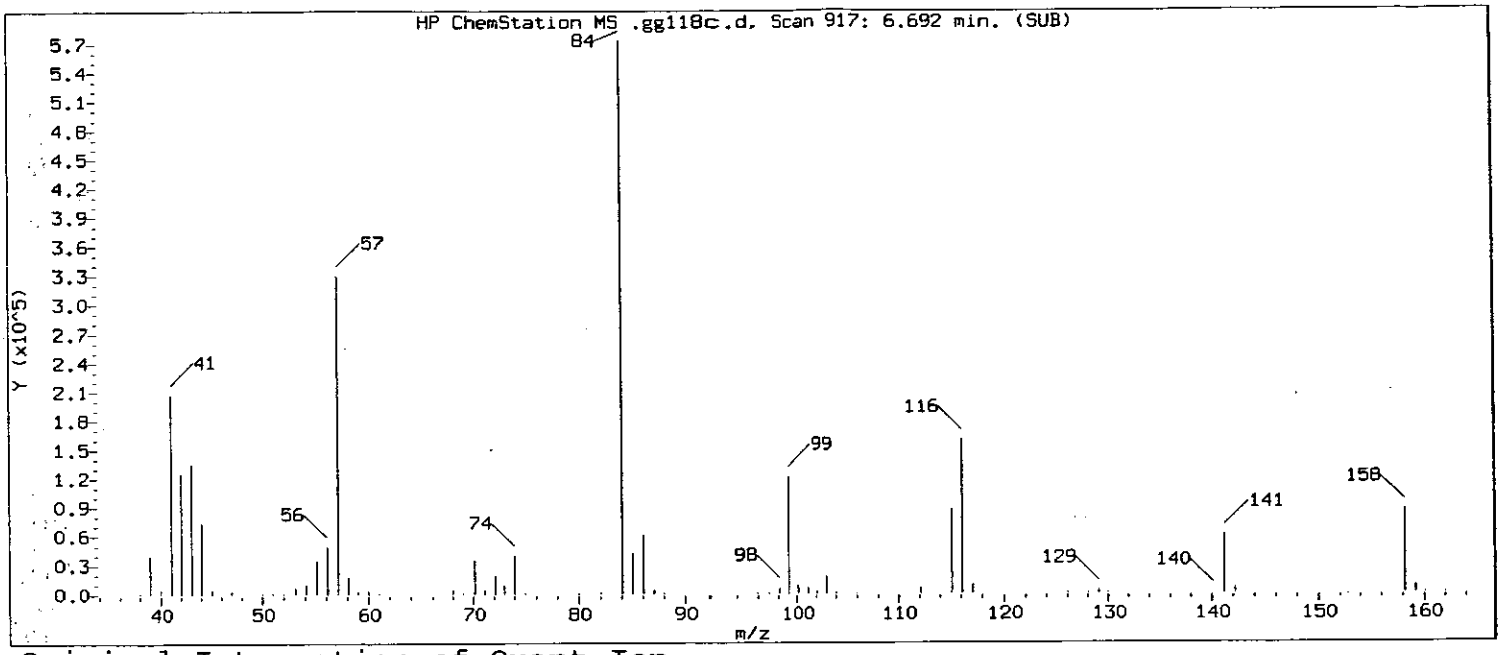
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

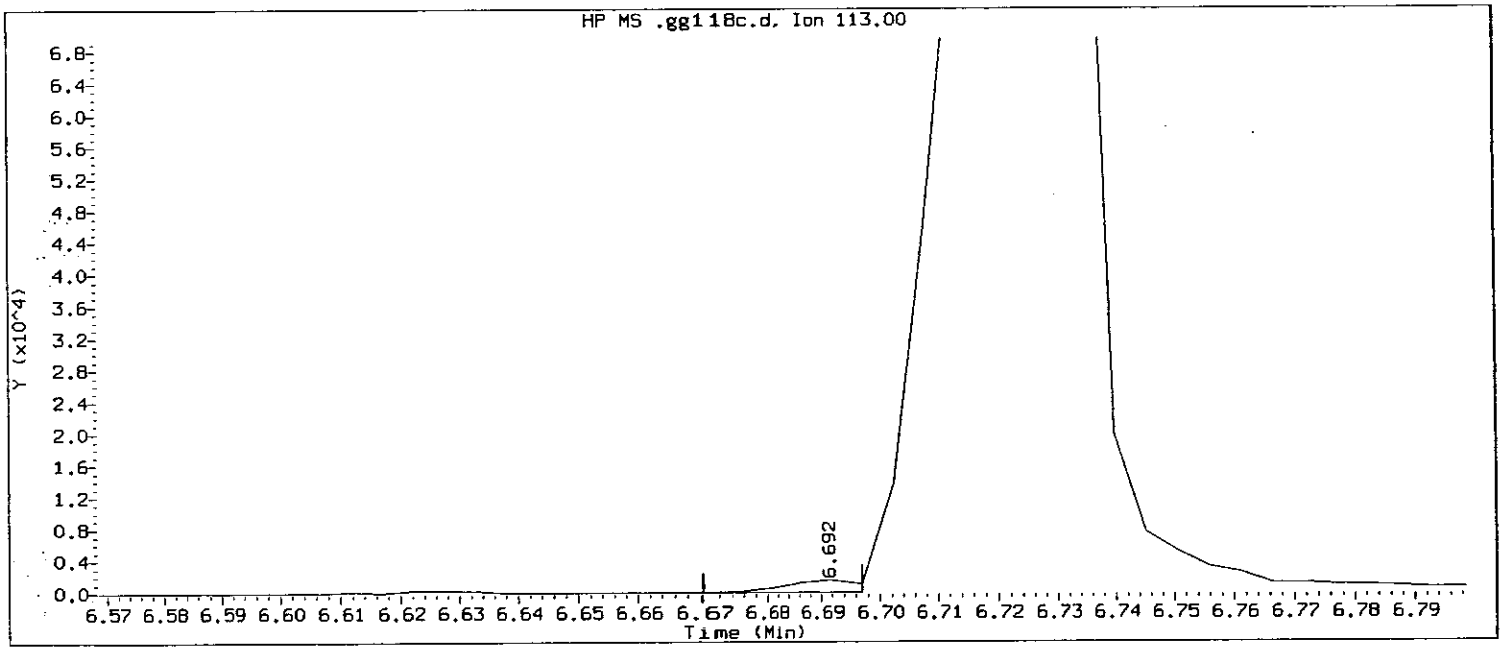
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.730	242	1569563	81.411
169)	Di-n-octylphthalate	(6)	11.981	149	2214893	81.360
189)	Dibenz(a,h)acridine	(6)	13.832	279	1677760	82.316
190)	Dibenz(a,j)acridine	(6)	13.896	279	1589321	81.815
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.372	256	1099240	82.172
171)	Benzo(b)fluoranthene	(6)	12.377	252	2234650	82.759
194)	Ronnel	(4)	9.409	285	466774	80.208
172)	Benzo(k)fluoranthene	(6)	12.409	252	2139781	79.300
173)	Benzo(a)pyrene	(6)	12.746	252	1983188	80.730
174)	Perylene-d12	(6)	12.810	264	717987	40.000
175)	3-Methylcholanthrene	(6)	13.174	268	1126457	80.383
176)	Indeno(1,2,3-cd)pyrene	(6)	14.110	276	2193154	80.870
177)	Dibenz(a,h)anthracene	(6)	14.142	278	1828263	81.375
178)	Benzo(g,h,i)perylene	(6)	14.431	276	1835670	80.496
84)	1-Chloronaphthalene	(3)	7.355	162	1103652	78.137
9)	2-Fluorophenol	(1)	3.894	112	587308	81.026
14)	Phenol-d5	(1)	4.862	99	820926	81.130
15)	Phenol-d6	(1)	4.862	99	820926	81.130
38)	Nitrobenzene-d5	(2)	5.691	82	686779	80.306
77)	2-Fluorobiphenyl	(3)	7.242	172	1287469	80.205
118)	2,4,6-Tribromophenol	(3)	8.451	330	195013	82.102
155)	Terphenyl-d14	(5)	10.339	244	1581153	82.523

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:21
Date, time and analyst ID of latest file update: 30-Jul-2007 21:21 Automation

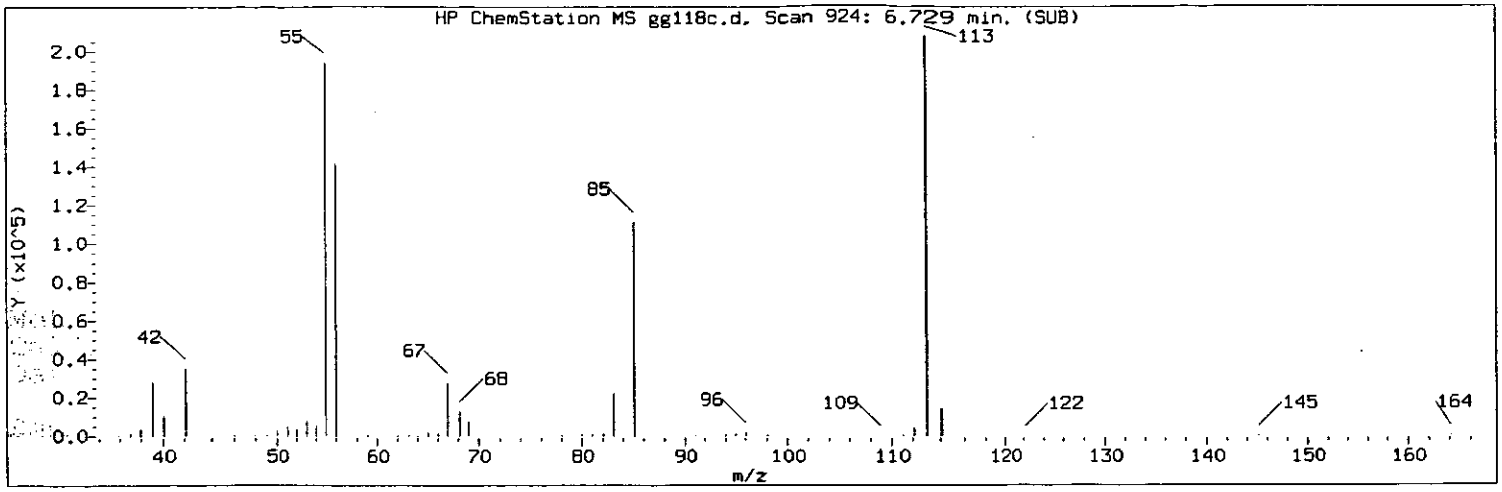
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number	:	62
Compound Name	:	Caprolactam
Scan Number	:	917
Retention Time (minutes)	:	6.692
Quant Ion	:	113
Area	:	1287
Concentration (ng/ul)	:	0.5902
Integration start scan	:	912
Integration stop scan	:	917
Y at integration start	:	0
Y at integration end	:	31

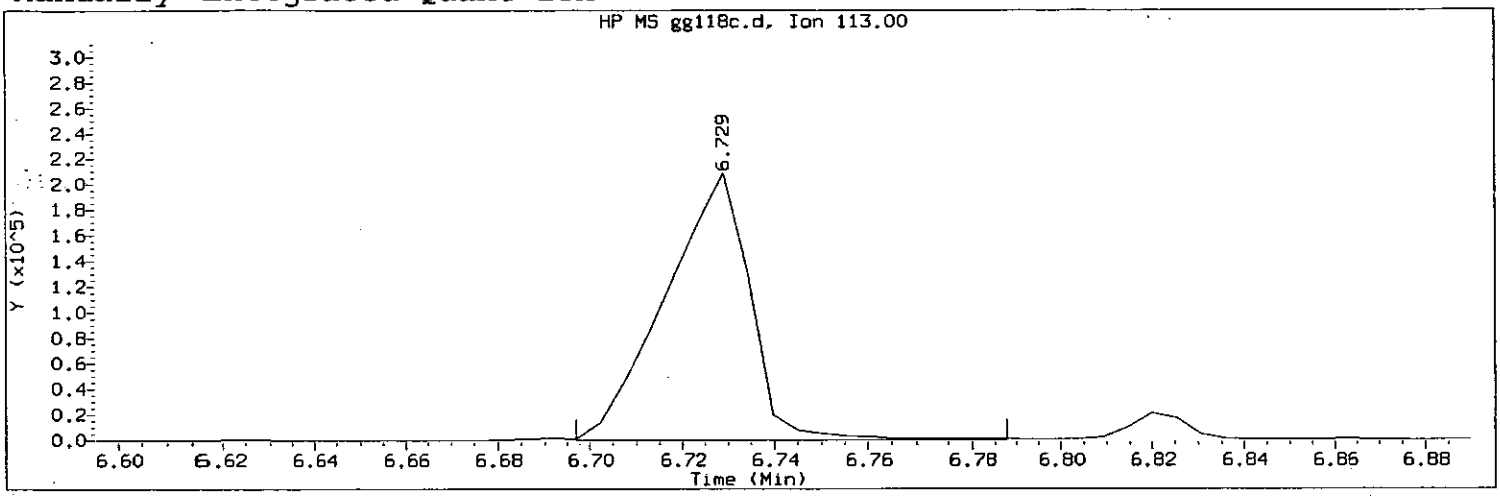
8537

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118c.d, generated on 07/30/2007 at 21:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118c.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:04 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:29
Date, time and analyst ID of latest file update: 30-Jul-2007 21:29 gjd01970

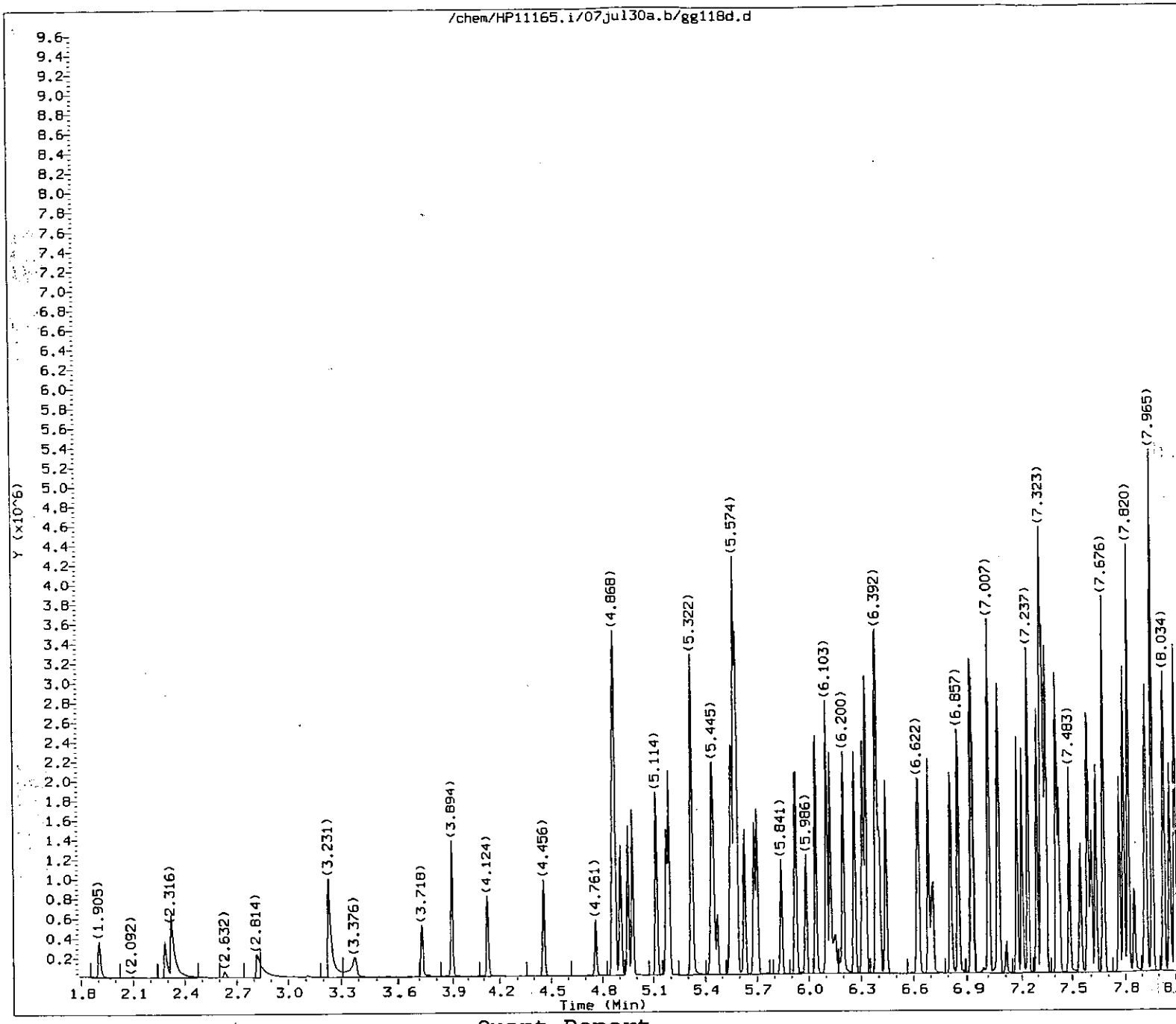
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number : 62
Compound Name : Caprolactam
Scan Number : 924
Retention Time (minutes): 6.729
Quant Ion : 113
Area (flag) : 266483A
Concentration (ng/ul) : 81.1033
Integration start scan : 917 Integration stop scan: 934
Y at integration start : 31 Y at integration end: 42

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 7470 7/30/07

GC/MS audit/management approval: [signature] 0538 07/31/07



Quant Report

Target Revision 3.5

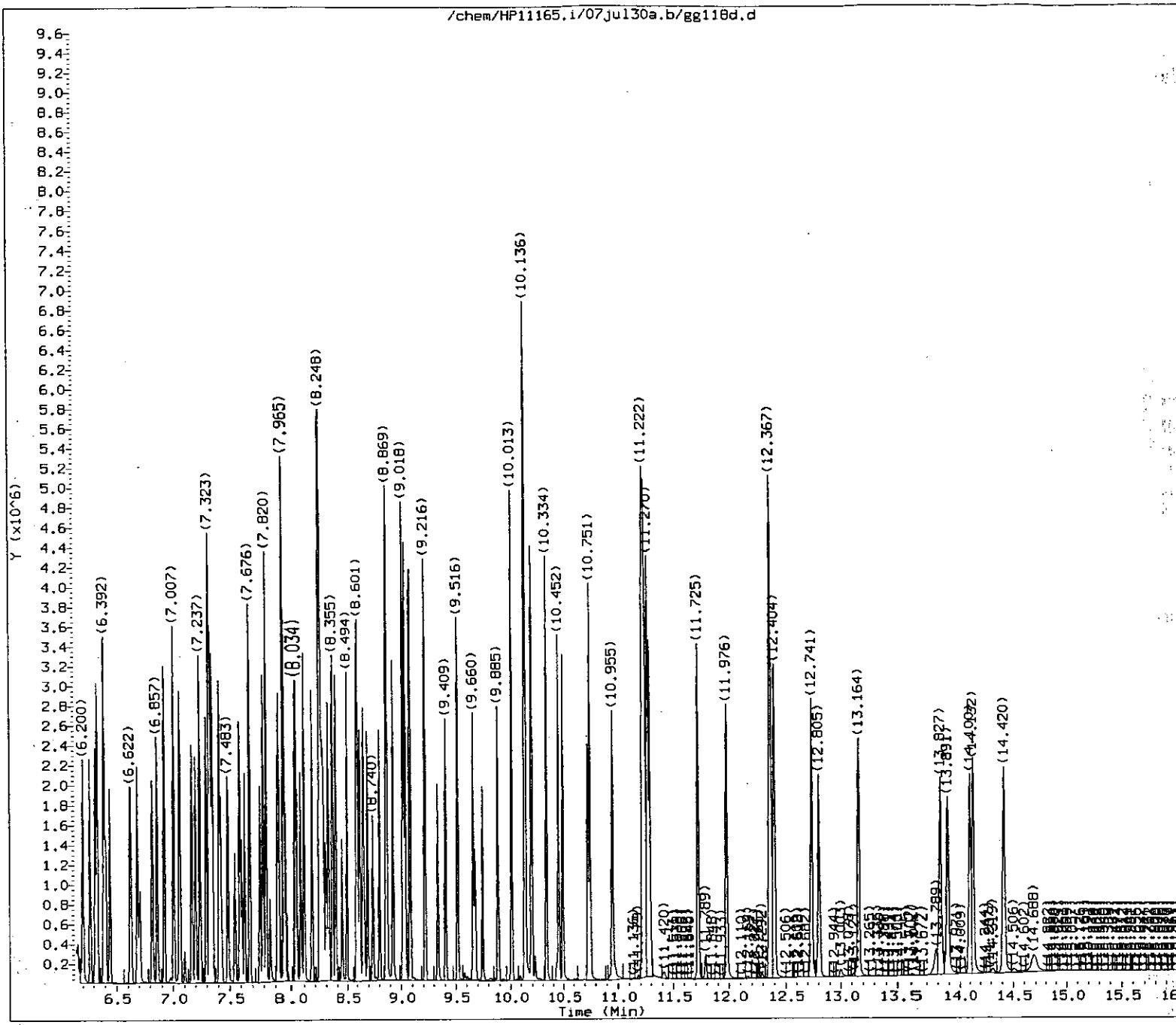
Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

8539

GB 1970
7/30/19



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

0548

GJH70
7/30/7

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.905	88	157959	49.944
2) N-Nitrosodimethylamine	(1)	2.284	74	241223	49.199
3) Pyridine	(1)	2.322	79	452581	50.355
5) 2-Picoline	(1)	3.231	93	453973	50.550
6) N-Nitrosomethylethylamine	(1)	3.381	88	210681	49.744
7) Methyl methanesulfonate	(1)	3.718	80	184568	49.524
10) N-Nitrosodiethylamine	(1)	4.124	102	220155	49.901
11) Ethyl methanesulfonate	(1)	4.456	109	211802	50.147
13) Aniline	(1)	4.868	93	706580	50.219
16) Phenol	(1)	4.873	94	609282	49.426
17) Pentachloroethane	(1)	4.905	167	121806	50.318
18) bis(2-Chloroethyl)ether	(1)	4.948	93	425814	49.525
19) 2-Chlorophenol	(1)	4.975	128	377391	50.132
20) 1,3-Dichlorobenzene	(1)	5.114	146	372131	50.211
21) 1,4-Dichlorobenzene-d4	(1)	5.173	152	178519	40.000
22) 1,4-Dichlorobenzene	(1)	5.189	146	380988	50.012
24) Benzyl alcohol	(1)	5.317	108	285789	48.360
25) 1,2-Dichlorobenzene	(1)	5.322	146	366194	50.825
26) 2-Methylphenol	(1)	5.440	108	424102	50.233
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.451	45	478343	50.283
28) bis(2-Chloroisopropyl)ether	(1)	5.451	45	478343	50.283
29) N-Nitrosopyrrolidine	(1)	5.547	100	256836	50.547
30) Acetophenone	(1)	5.558	105	610968	50.770
31) N-Nitroso-di-n-propylamine	(1)	5.574	70	305813	51.425
32) N-Nitrosomorpholine	(1)	5.585	56	216327	50.407
33) 4-Methylphenol	(1)	5.574	108	479851	51.222
34) o-Toluidine	(1)	5.585	106	729067	51.194
37) Hexachloroethane	(1)	5.633	117	150698	50.445
39) Nitrobenzene	(2)	5.702	77	453134	50.697
40) N-Nitrosopiperidine	(2)	5.841	114	230608	50.676
41) Isophorone	(2)	5.927	82	900515	50.493
42) 2-Nitrophenol	(2)	5.986	139	200720	50.227
44) 2,4-Dimethylphenol	(2)	6.044	107	456609	50.845
45) O,O,O-triethylphosphorothioate	(2)	6.103	198	205454	51.162
46) bis(2-Chloroethoxy)methane	(2)	6.125	93	537877	50.710
47) Benzoic acid	(2)	6.157	105	332343	51.404
49) 2,4-Dichlorophenol	(2)	6.200	162	341113	50.800
50) 1,2,4-Trichlorobenzene	(2)	6.264	180	332261	50.360
52) Naphthalene-d8	(2)	6.312	136	820561	40.000
53) Naphthalene	(2)	6.328	128	1173768	50.552
55) 4-Chloroaniline	(2)	6.387	127	493535	50.921
56) 2,6-Dichlorophenol	(2)	6.392	162	323981	51.122
57) Hexachloropropene	(2)	6.408	213	197083	49.992

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59)	Hexachlorobutadiene	(2)	6.440	225	172928	50.445
62)	Caprolactam	(2)	6.713	113	170553	49.993
63)	N-Nitrosodi-n-butylamine	(2)	6.686	84	331168	48.143
67)	4-Chloro-3-methylphenol	(2)	6.815	107	412285	50.308
68)	Safrole	(2)	6.857	162	314491	50.943
69)	2-Methylnaphthalene	(2)	6.922	142	781198	50.993
70)	1-Methylnaphthalene	(2)	7.007	142	771323	50.794
71)	Hexachlorocyclopentadiene	(3)	7.055	237	192423	50.210
72)	1,2,4,5-Tetrachlorobenzene	(3)	7.066	216	333064	51.137
73)	cis-Isosafrole	(3)	7.104	162	33804	5.587
74)	2,4,6-Trichlorophenol	(3)	7.168	196	239062	50.600
76)	2,4,5-Trichlorophenol	(3)	7.200	196	270558	50.041
78)	trans-Isosafrole	(3)	7.296	162	359762	45.267
79)	Isosafrole	(3)	7.296	162	359762	50.862
80)	Biphenyl	(3)	7.323	154	1013405	51.094
81)	Diphenyl	(3)	7.323	154	1013405	51.094
82)	1,1'-Biphenyl	(3)	7.323	154	1013405	51.094
83)	2-Chloronaphthalene	(3)	7.333	162	1006144M	56.462
87)	Diphenyl ether	(3)	7.408	170	538445	51.169
88)	2-Nitroaniline	(3)	7.424	138	287491	50.860
89)	1,4-Naphthoquinone	(3)	7.483	158	306092	51.782
90)	1,4-Dinitrobenzene	(3)	7.547	168	146405	50.242
91)	Dimethylphthalate	(3)	7.590	163	897567	50.772
92)	1,3-Dinitrobenzene	(3)	7.606	168	164956	50.433
93)	2,6-Dinitrotoluene	(3)	7.633	165	209447	49.827
94)	Acenaphthylene	(3)	7.676	152	1258704	50.862
96)	3-Nitroaniline	(3)	7.767	138	253182	50.682
97)	Acenaphthene-d10	(3)	7.793	164	539105	40.000
98)	Acenaphthene	(3)	7.820	153	798273	50.901
99)	2,4-Dinitrophenol	(3)	7.858	184	113630	47.085
100)	Pentachlorobenzene	(3)	7.927	250	327526	51.233
102)	4-Nitrophenol	(3)	7.917	109	151044	51.195
103)	Dibenzofuran	(3)	7.965	168	1117195	50.767
104)	2,4-Dinitrotoluene	(3)	7.965	165	279576	50.883
105)	1-Naphthylamine	(3)	8.034	143	853347	51.860
106)	2,3,4,6-Tetrachlorophenol	(3)	8.066	232	210903	50.594
107)	2-Naphthylamine	(3)	8.098	143	876852	51.392
108)	Diethylphthalate	(3)	8.173	149	847285	50.753
109)	Thionazin	(3)	8.243	107	166088	52.431
110)	Fluorene	(3)	8.248	166	917087	52.226
111)	4-Chlorophenyl-phenylether	(3)	8.253	204	436020	51.892
112)	5-Nitro-o-toluidine	(3)	8.264	152	279647	50.903
113)	4-Nitroaniline	(3)	8.275	138	266375	50.639

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.302	198	172452	49.212
115)	1-Nitronaphthalene	(4)	8.318	173	185163	50.098
116)	N-Nitrosodiphenylamine	(4)	8.355	169	686369	51.156
117)	1,2-Diphenylhydrazine	(4)	8.382	77	1016694	50.812
119)	Tetraethyldithiopyrophosphate	(4)	8.494	97	155103	51.053
120)	1,3,5-Trinitrobenzene	(4)	8.590	213	106103	50.153
121)	Diallate (peak 1)	(4)	8.596	86	361961	38.451
122)	Phorate	(4)	8.601	75	642085	45.566
123)	Phenacetin	(4)	8.623	108	523806	50.240
124)	4-Bromophenyl-phenylether	(4)	8.655	248	254905	51.162
125)	Diallate (peak 2)	(4)	8.665	86	115547	12.482
126)	Hexachlorobenzene	(4)	8.692	284	282099	50.172
127)	Dimethoate	(4)	8.740	87	343852	50.256
128)	Diallate TRANS/CIS	(4)	23.156	86	477508	50.937
130)	Pentachlorophenol	(4)	8.863	266	169820	47.771
131)	Pentachloronitrobenzene	(4)	8.869	237	105971	50.991
132)	4-Aminobiphenyl	(4)	8.874	169	845661	51.198
133)	Pronamide	(4)	8.927	173	384128	50.434
134)	Phenanthrene-d10	(4)	9.018	188	990087	40.000
135)	Dinoseb	(4)	9.018	211	225052	49.762
136)	Phenanthrene	(4)	9.040	178	1405508	50.890
137)	Anthracene	(4)	9.082	178	1436849	50.313
139)	Carbazole	(4)	9.216	167	1329927	50.356
140)	Methyl parathion	(4)	9.334	109	285360	51.460
141)	Di-n-butylphthalate	(4)	9.516	149	1471573	50.387
142)	Parathion	(4)	9.660	109	204939	50.686
143)	4-Nitroquinoline-1-oxide	(4)	9.676	190	108975	51.311
144)	Methapyrilene	(4)	9.746	97	306265	47.125
145)	Isodrin	(4)	9.885	193	142267	50.779
146)	Fluoranthene	(4)	10.013	202	1561307	50.560
151)	Benzidine	(5)	10.136	184	2660905	156.973
153)	Pyrene	(5)	10.195	202	1577439	50.484
157)	p-Dimethylaminoazobenzene	(5)	10.452	225	338085	50.302
158)	Chlorobenzilate	(5)	10.495	139	449593	50.900
159)	3,3'-Dimethylbenzidine	(5)	10.730	212	758303	50.594
160)	Butylbenzylphthalate	(5)	10.751	149	659902	50.528
161)	2-Acetylaminofluorene	(5)	10.955	181	597787	49.531
163)	3,3'-Dichlorobenzidine	(5)	11.217	252	551370	50.365
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.227	231	276838	50.972
165)	Benzo(a)anthracene	(5)	11.233	228	1479434	51.008
166)	Chrysene-d12	(5)	11.243	240	962962	40.000
167)	Chrysene	(5)	11.270	228	1379371	49.577
168)	bis(2-Ethylhexyl)phthalate	(5)	11.291	149	879030	50.384

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

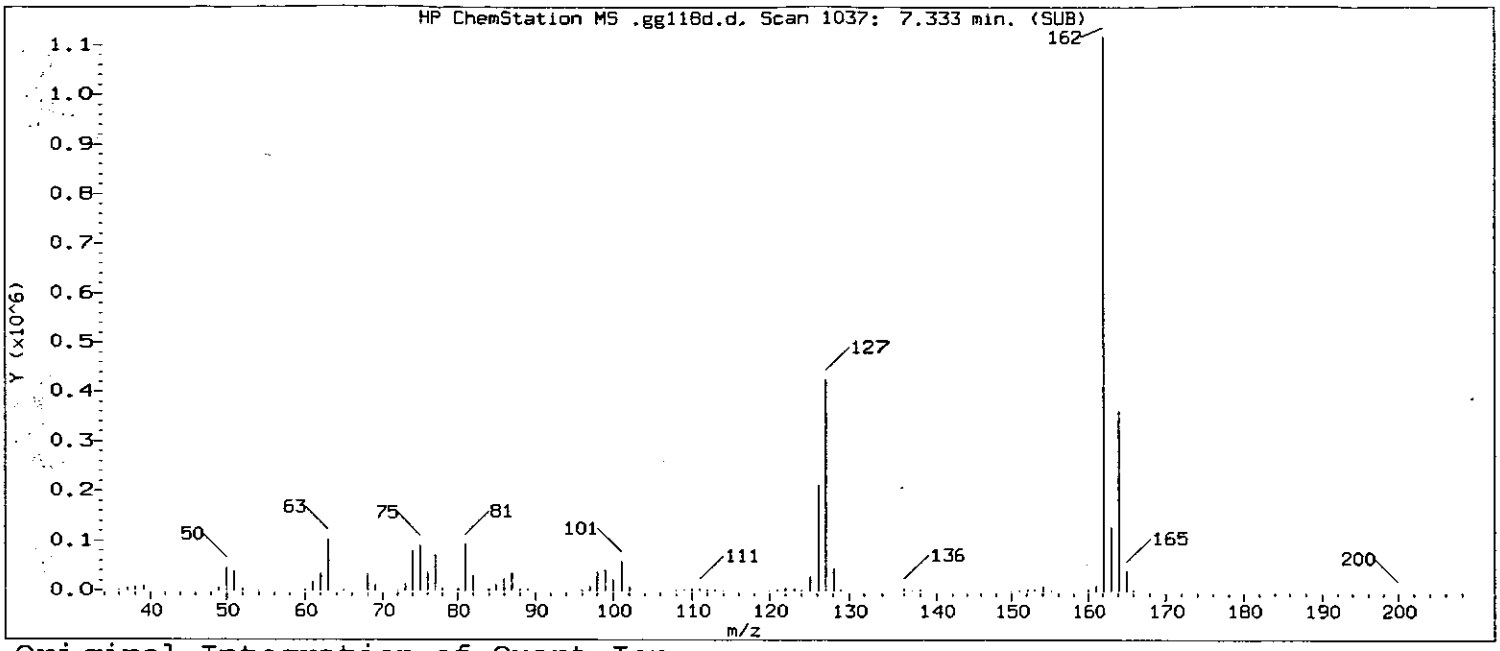
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

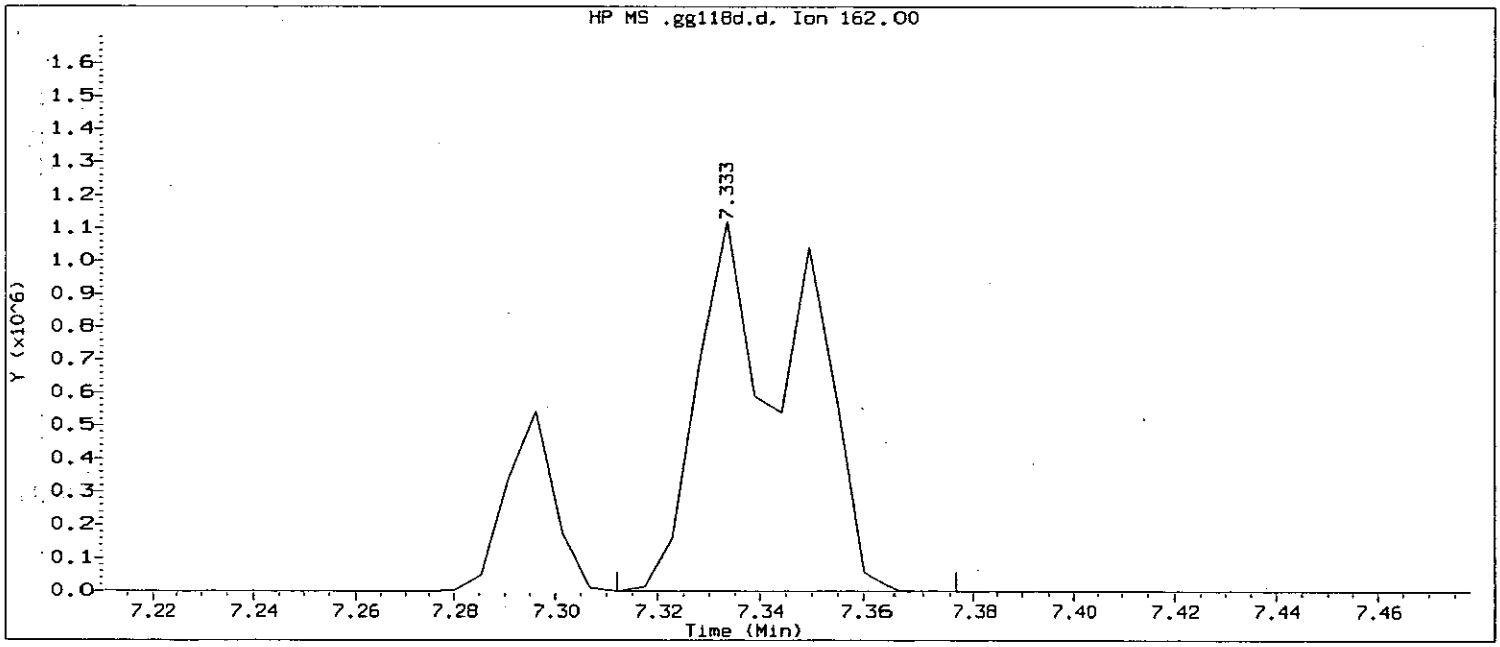
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.725	242	1014173	49.593
169)	Di-n-octylphthalate	(6)	11.976	149	1418033	49.129
189)	Dibenz(a,h)acridine	(6)	13.827	279	1069487	49.401
190)	Dibenz(a,j)acridine	(6)	13.891	279	1014958	49.242
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.367	256	715025	50.091
171)	Benzo(b)fluoranthene	(6)	12.372	252	1401140	48.987
194)	Ronnel	(4)	9.409	285	324040	52.061
172)	Benzo(k)fluoranthene	(6)	12.404	252	1482321	51.127
173)	Benzo(a)pyrene	(6)	12.741	252	1306079	49.892
174)	Perylene-d12	(6)	12.805	264	765668	40.000
175)	3-Methylcholanthrene	(6)	13.164	268	747053	49.992
176)	Indeno(1,2,3-cd)pyrene	(6)	14.100	276	1428538	49.545
177)	Dibenz(a,h)anthracene	(6)	14.132	278	1171121	49.155
178)	Benzo(g,h,i)perylene	(6)	14.420	276	1198945	49.474
84)	1-Chloronaphthalene	(3)	7.350	162	713885M	49.033
9)	2-Fluorophenol	(1)	3.894	112	375230	49.365
14)	Phenol-d5	(1)	4.857	99	533592	50.056
15)	Phenol-d6	(1)	4.857	99	533592	50.056
38)	Nitrobenzene-d5	(2)	5.686	82	444449	50.038
77)	2-Fluorobiphenyl	(3)	7.237	172	849858	50.772
118)	2,4,6-Tribromophenol	(3)	8.446	330	126141	50.888
155)	Terphenyl-d14	(5)	10.334	244	1035471	50.607

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:45
Date, time and analyst ID of latest file update: 30-Jul-2007 21:45 Automation

Sample Name: SSTD050 Lab Sample ID: STD2057

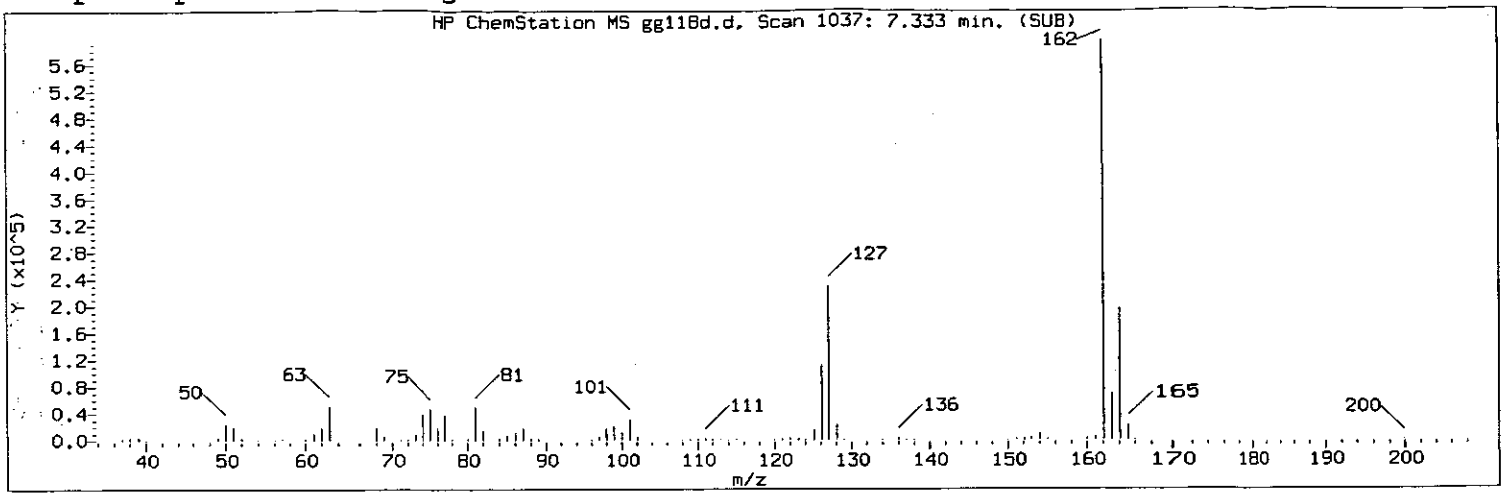
Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 1037
Retention Time (minutes): 7.333
Quant Ion : 162
Area : 1545669
Concentration (ng/ul) : 75.3340
Integration start scan : 1032 Integration stop scan: 1044
Y at integration start : 102 Y at integration end: 67

8545

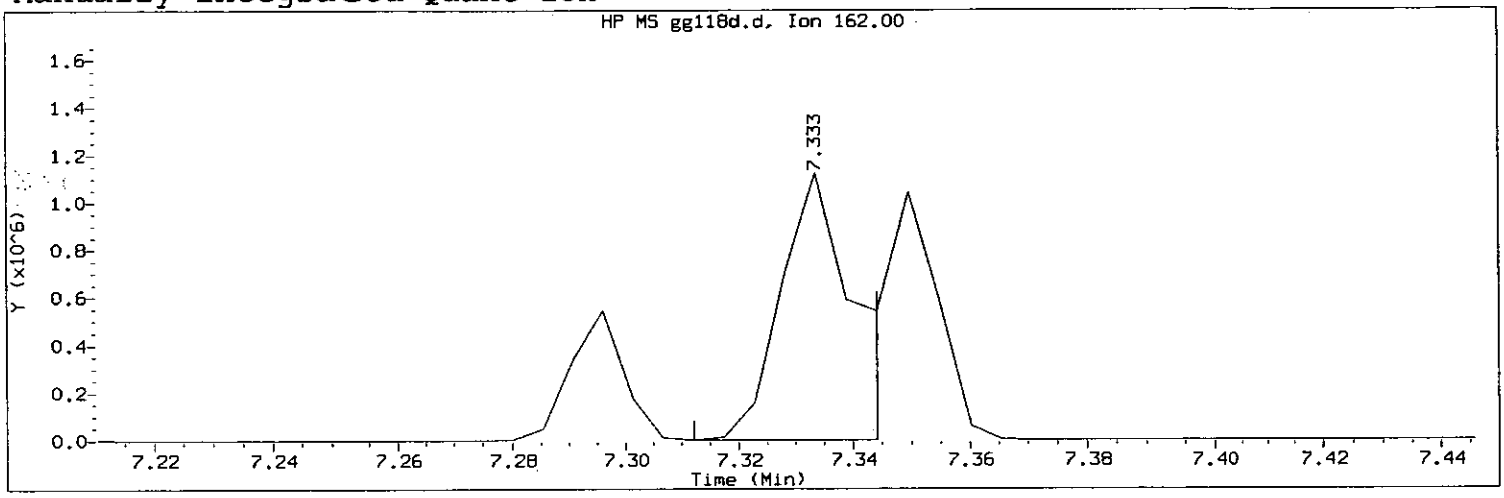
GJD1470 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118d.d, generated on 07/30/2007 at 21:51

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number	: 83
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1037
Retention Time (minutes)	: 7.333
Quant Ion	: 162
Area (flag)	: 1006144 M
Concentration (ng/ul)	: 56.4618
Integration start scan	: 1032 Integration stop scan: 1038
Y at integration start	: 102 Y at integration end: 85

Reason for manual integration (circle one): missed peak improper integrati

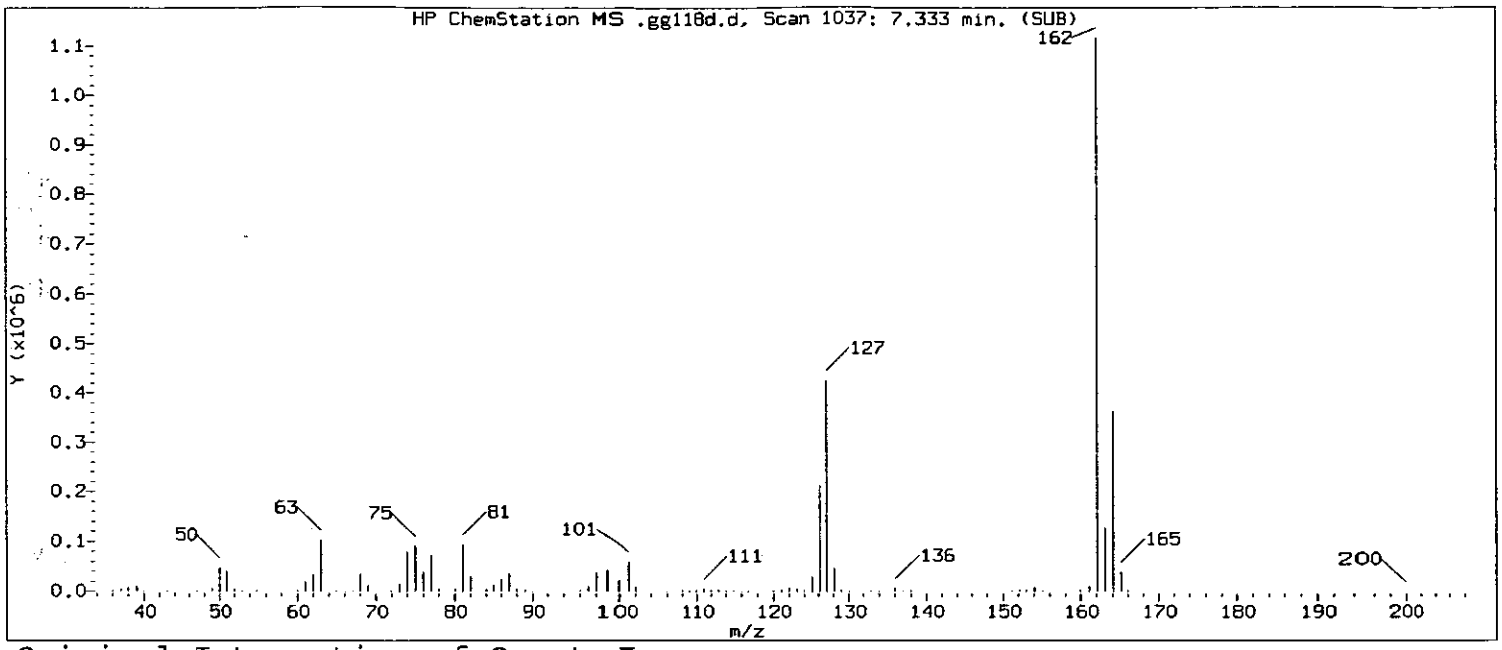
Analyst responsible for change: 1970 7/31/07

8546

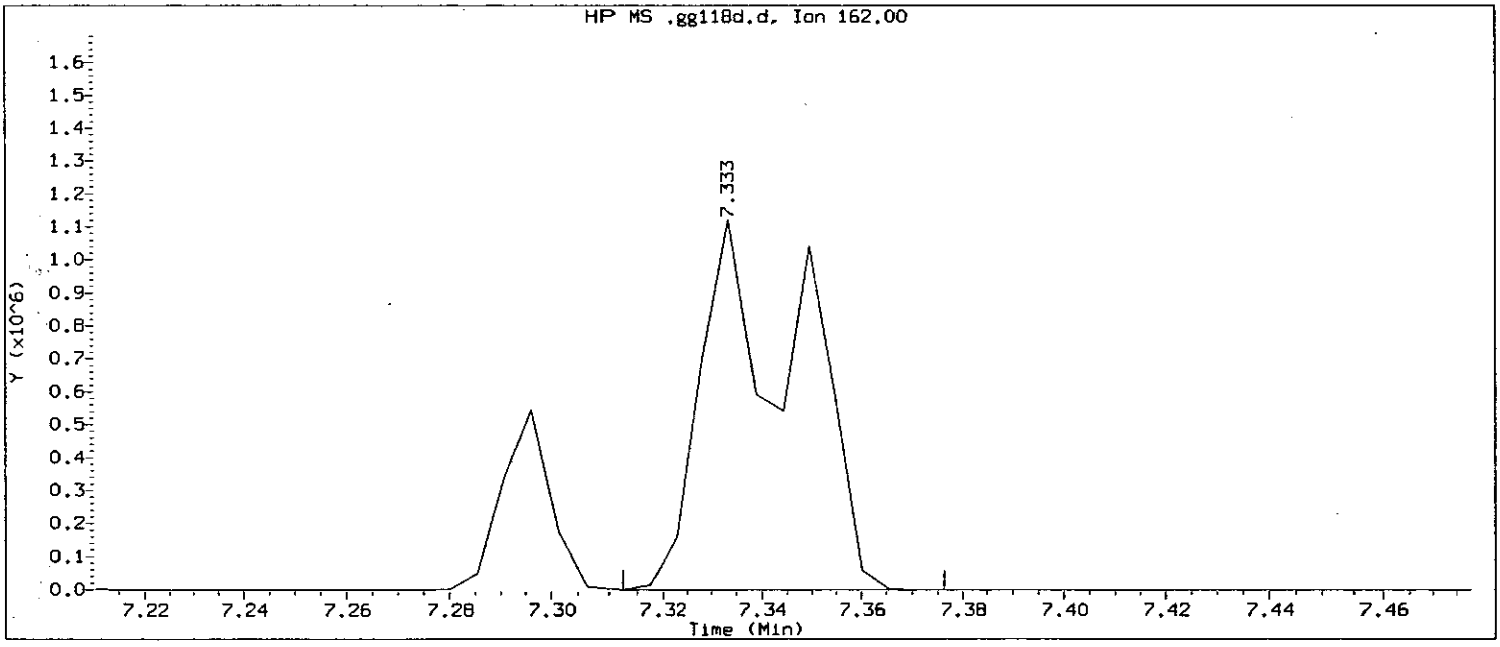
GC/MS audit/management approval: 8/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118d.d, generated on 07/30/2007 at 21:51

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 21:45
Date, time and analyst ID of latest file update: 30-Jul-2007 21:45 Automation

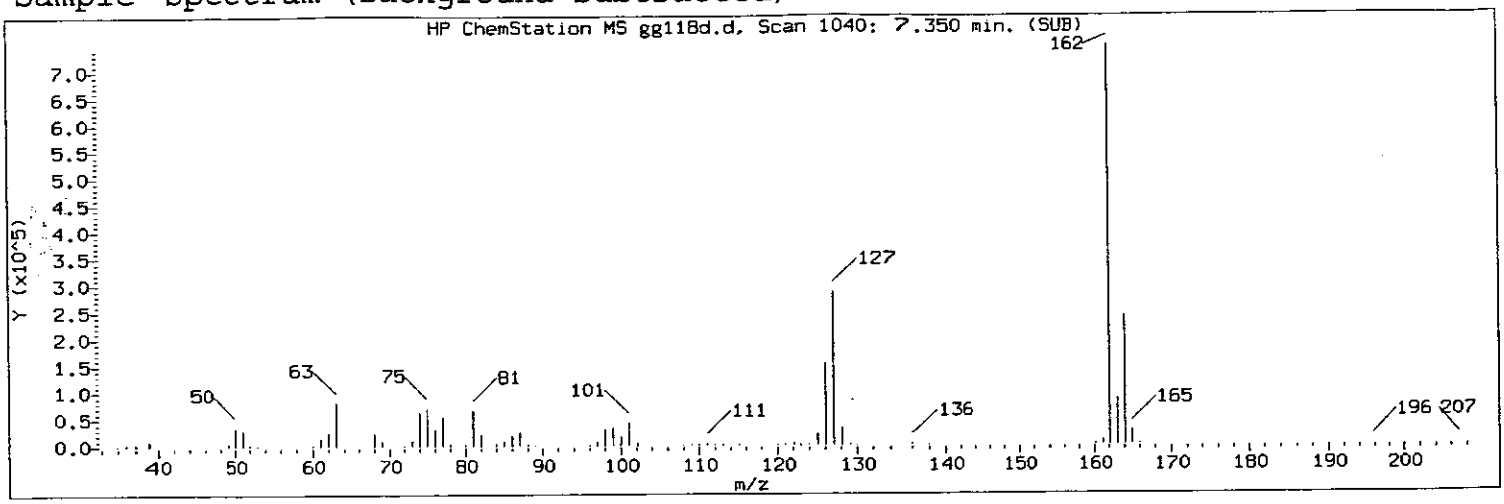
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1037
Retention Time (minutes): 7.333
Quant Ion : 162
Area : 1545492
Concentration (ng/ul) : 82.5707
Integration start scan : 1032 Integration stop scan: 1044
Y at integration start : 150 Y at integration end: 110

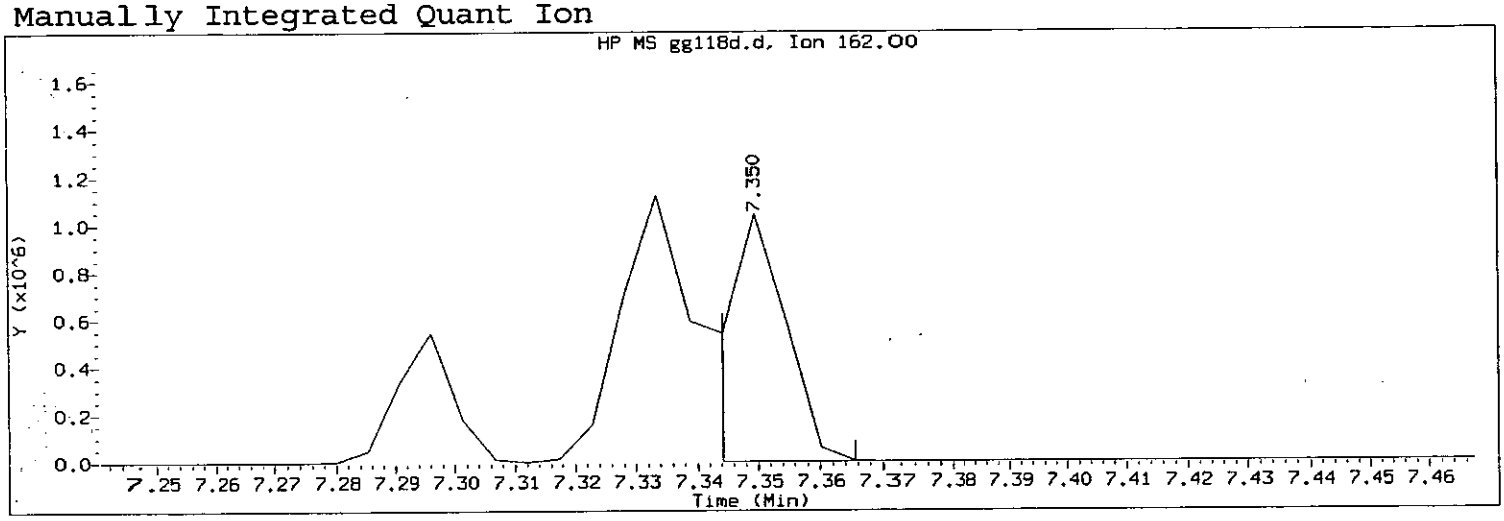
8547

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118d.d, generated on 07/30/2007 at 21:51

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118d.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:29 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 21:50
Date, time and analyst ID of latest file update: 30-Jul-2007 21:50 gjd01970

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number	: 84		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 1040		
Retention Time (minutes)	: 7.350		
Quant Ion	: 162		
Area (flag)	: 713885	M	
Concentration (ng/ul)	: 49.0334		
Integration start scan	: 1038	Integration stop scan:	1042
Y at integration start	: -385	Y at integration end:	-385

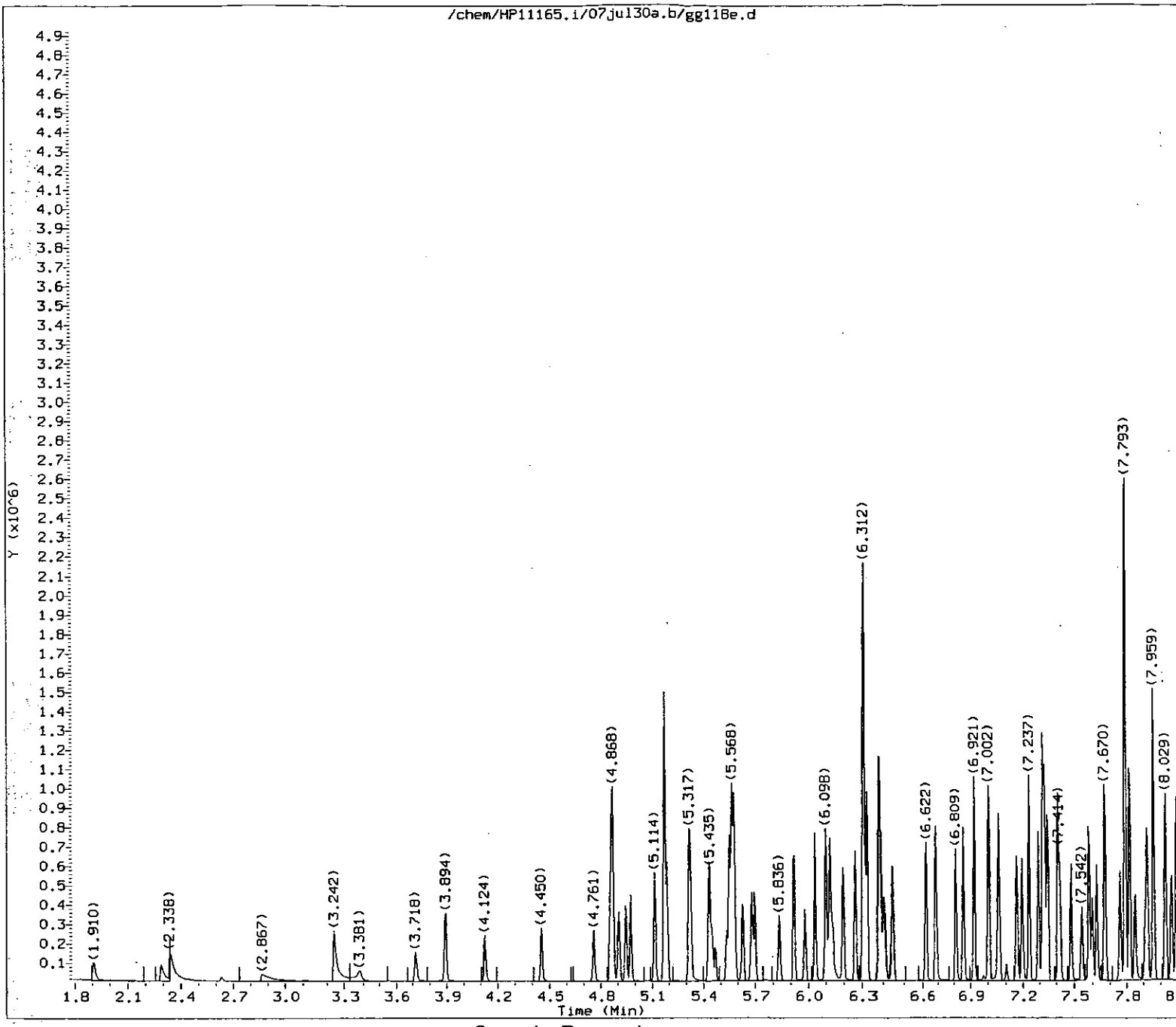
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: 1970 7/30/7

8548

GC/MS audit/management approval: 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118d.d, generated on 07/30/2007 at 21:51



Quant Report

Target Revision 3.5

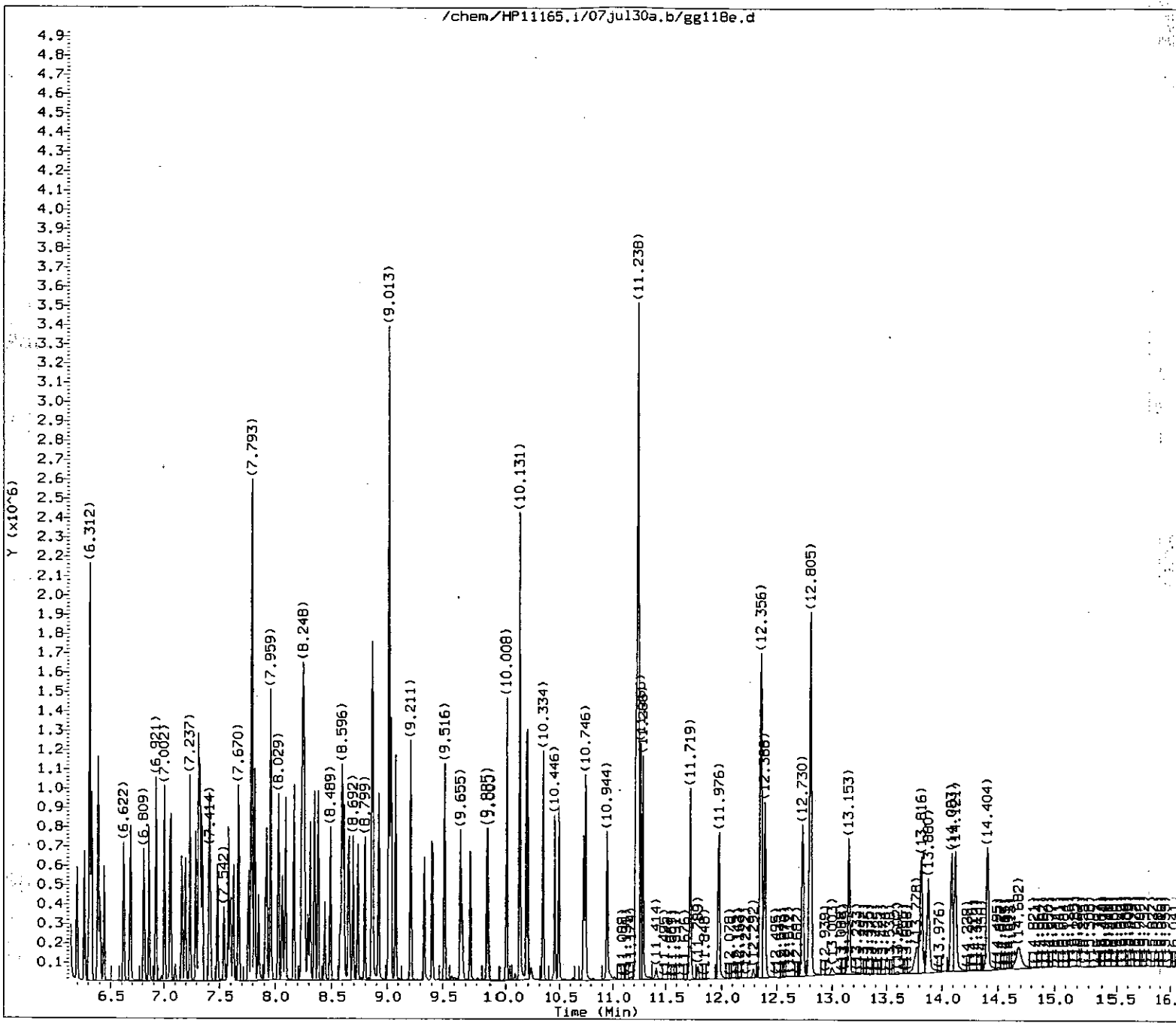
Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

8549

GC/470
7/30/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

0550

GJ/17
7/31/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.904	88	45744	14.829
2) N-Nitrosodimethylamine	(1)	2.290	74	68924	14.494
3) Pyridine	(1)	2.338	79	125481	14.413
5) 2-Picoline	(1)	3.242	93	131061	14.936
6) N-Nitrosomethylethylamine	(1)	3.381	88	60147	14.613
7) Methyl methanesulfonate	(1)	3.718	80	51890	14.382
10) N-Nitrosodiethylamine	(1)	4.124	102	61873	14.466
11) Ethyl methanesulfonate	(1)	4.450	109	59558	14.530
13) Aniline	(1)	4.868	93	200250	14.639
16) Phenol	(1)	4.868	94	171103	14.346
17) Pentachloroethane	(1)	4.905	167	35056	14.844
18) bis(2-Chloroethyl)ether	(1)	4.942	93	126264	15.011
19) 2-Chlorophenol	(1)	4.975	128	104904	14.392
20) 1,3-Dichlorobenzene	(1)	5.114	146	107722	14.888
21) 1,4-Dichlorobenzene-d4	(1)	5.172	152	174608	40.000
22) 1,4-Dichlorobenzene	(1)	5.189	146	111553	14.977
24) Benzyl alcohol	(1)	5.317	108	85190	14.790
25) 1,2-Dichlorobenzene	(1)	5.322	146	106251	15.062
26) 2-Methylphenol	(1)	5.429	108	120040	14.627
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.445	45	138697	14.925
28) bis(2-Chloroisopropyl)ether	(1)	5.445	45	138697	14.925
29) N-Nitrosopyrrolidine	(1)	5.536	100	70709	14.376
30) Acetophenone	(1)	5.552	105	174991	14.893
31) N-Nitroso-di-n-propylamine	(1)	5.563	70	86984	14.964
32) N-Nitrosomorpholine	(1)	5.574	56	64576	15.306
33) 4-Methylphenol	(1)	5.568	108	136353	14.905
34) o-Toluidine	(1)	5.579	106	210378	15.083
37) Hexachloroethane	(1)	5.627	117	42756	14.705
39) Nitrobenzene	(2)	5.697	77	126934	14.803
40) N-Nitrosopiperidine	(2)	5.836	114	64019	14.691
41) Isophorone	(2)	5.921	82	253831	14.829
42) 2-Nitrophenol	(2)	5.980	139	53779	14.174
44) 2,4-Dimethylphenol	(2)	6.039	107	126692	14.725
45) O,O,O-triethylphosphorothioate	(2)	6.103	198	56620	14.718
46) bis(2-Chloroethoxy)methane	(2)	6.125	93	153870	15.057
47) Benzoic acid	(2)	6.135	105	180715	29.228
49) 2,4-Dichlorophenol	(2)	6.194	162	94674	14.718
50) 1,2,4-Trichlorobenzene	(2)	6.264	180	93050	14.721
52) Naphthalene-d8	(2)	6.312	136	789787	40.000
53) Naphthalene	(2)	6.328	128	331032	14.849
55) 4-Chloroaniline	(2)	6.387	127	141353	15.122
56) 2,6-Dichlorophenol	(2)	6.387	162	89710	14.765
57) Hexachloropropene	(2)	6.403	213	53446	14.259

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59)	Hexachlorobutadiene	(2)	6.440	225	49717	15.054
62)	Caprolactam	(2)	6.686	113	48412	14.794
63)	N-Nitrosodi-n-butylamine	(2)	6.681	84	118195	17.198
67)	4-Chloro-3-methylphenol	(2)	6.809	107	116347	14.799
68)	Safrole	(2)	6.857	162	88423	14.905
69)	2-Methylnaphthalene	(2)	6.921	142	220086	14.941
70)	1-Methylnaphthalene	(2)	7.002	142	217904	14.927
71)	Hexachlorocyclopentadiene	(3)	7.055	237	46219	12.984
72)	1,2,4,5-Tetrachlorobenzene	(3)	7.061	216	94782	15.126
73)	cis-Isosafrole	(3)	7.103	162	9350	1.617
74)	2,4,6-Trichlorophenol	(3)	7.162	196	63823	14.247
76)	2,4,5-Trichlorophenol	(3)	7.194	196	75731	14.670
78)	trans-Isosafrole	(3)	7.291	162	99274	13.077
79)	Isosafrole	(3)	7.291	162	99274	14.694
80)	Biphenyl	(3)	7.317	154	289599	15.167
81)	Diphenyl	(3)	7.317	154	289599	15.167
82)	1,1'-Biphenyl	(3)	7.317	154	289599	15.167
83)	2-Chloronaphthalene	(3)	7.328	162	258830M	15.103
87)	Diphenyl ether	(3)	7.408	170	150513	14.919
88)	2-Nitroaniline	(3)	7.419	138	74697	13.995
89)	1,4-Naphthoquinone	(3)	7.483	158	82485	14.625
90)	1,4-Dinitrobenzene	(3)	7.542	168	36381	13.360
91)	Dimethylphthalate	(3)	7.579	163	250060	14.786
92)	1,3-Dinitrobenzene	(3)	7.601	168	44482	14.325
93)	2,6-Dinitrotoluene	(3)	7.628	165	59697	14.834
94)	Acenaphthylene	(3)	7.670	152	353840	14.914
96)	3-Nitroaniline	(3)	7.761	138	70586	14.773
97)	Acenaphthene-d10	(3)	7.793	164	517565	40.000
98)	Acenaphthene	(3)	7.815	153	225789	14.997
99)	2,4-Dinitrophenol	(3)	7.852	184	56889	25.479
100)	Pentachlorobenzene	(3)	7.922	250	92380	15.041
102)	4-Nitrophenol	(3)	7.911	109	40947	14.562
103)	Dibenzofuran	(3)	7.959	168	318680	15.067
104)	2,4-Dinitrotoluene	(3)	7.959	165	76978	14.673
105)	1-Naphthylamine	(3)	8.029	143	248345	15.571
106)	2,3,4,6-Tetrachlorophenol	(3)	8.066	232	57924	14.576
107)	2-Naphthylamine	(3)	8.093	143	248113	15.117
108)	Diethylphthalate	(3)	8.168	149	240675	15.013
109)	Thionazin	(3)	8.232	107	47615	15.521
110)	Fluorene	(3)	8.243	166	266147	15.623
111)	4-Chlorophenyl-phenylether	(3)	8.253	204	124414	15.336
112)	5-Nitro-o-toluidine	(3)	8.259	152	78595	14.921
113)	4-Nitroaniline	(3)	8.264	138	75109	14.898

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.291	198	41747	12.549
115)	1-Nitronaphthalene	(4)	8.312	173	52933	14.592
116)	N-Nitrosodiphenylamine	(4)	8.350	169	193379	14.667
117)	1,2-Diphenylhydrazine	(4)	8.382	77	289242	14.702
119)	Tetraethyldithiopyrophosphate	(4)	8.489	97	43910	14.700
120)	1,3,5-Trinitrobenzene	(4)	8.580	213	24502	12.257
121)	Diallate (peak 1)	(4)	8.590	86	104848	11.268
122)	Phorate	(4)	8.596	75	172826	12.856
123)	Phenacetin	(4)	8.612	108	149169	14.581
124)	4-Bromophenyl-phenylether	(4)	8.654	248	70278	14.415
125)	Diallate (peak 2)	(4)	8.660	86	33446	3.675
126)	Hexachlorobenzene	(4)	8.692	284	80340	14.565
127)	Dimethoate	(4)	8.735	87	116907	16.779
128)	Diallate TRANS/CIS	(4)	23.156	86	138294	14.944
130)	Pentachlorophenol	(4)	8.858	266	91018	26.638
131)	Pentachloronitrobenzene	(4)	8.868	237	31589	15.305
132)	4-Aminobiphenyl	(4)	8.868	169	246435	15.079
133)	Pronamide	(4)	8.922	173	108354	14.514
134)	Phenanthrene-d10	(4)	9.013	188	978318	40.000
135)	Dinoseb	(4)	9.018	211	51210	12.027
136)	Phenanthrene	(4)	9.034	178	402474	14.798
137)	Anthracene	(4)	9.077	178	403617	14.437
139)	Carbazole	(4)	9.211	167	381873	14.705
140)	Methyl parathion	(4)	9.334	109	88268	15.874
141)	Di-n-butylphthalate	(4)	9.516	149	415345	14.510
142)	Parathion	(4)	9.655	109	54765	13.948
143)	4-Nitroquinoline-1-oxide	(4)	9.671	190	23122	11.636
144)	Methapyrilene	(4)	9.740	97	121993	18.036
145)	Isodrin	(4)	9.885	193	39954	14.542
146)	Fluoranthene	(4)	10.008	202	441719	14.578
151)	Benzidine	(5)	10.131	184	759049	44.295
153)	Pyrene	(5)	10.195	202	453256	14.429
157)	p-Dimethylaminoazobenzene	(5)	10.452	225	91984	13.763
158)	Chlorobenzilate	(5)	10.489	139	130812	14.672
159)	3,3'-Dimethylbenzidine	(5)	10.730	212	209804	14.019
160)	Butylbenzylphthalate	(5)	10.746	149	191732	14.569
161)	2-Acetylaminofluorene	(5)	10.944	181	158093	13.278
163)	3,3'-Dichlorobenzidine	(5)	11.211	252	154044	14.078
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.222	231	79194	14.490
165)	Benzo(a)anthracene	(5)	11.227	228	433181	14.772
166)	Chrysene-d12	(5)	11.238	240	977288	40.000
167)	Chrysene	(5)	11.265	228	404579	14.458
168)	bis(2-Ethylhexyl)phthalate	(5)	11.286	149	250751	14.322

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

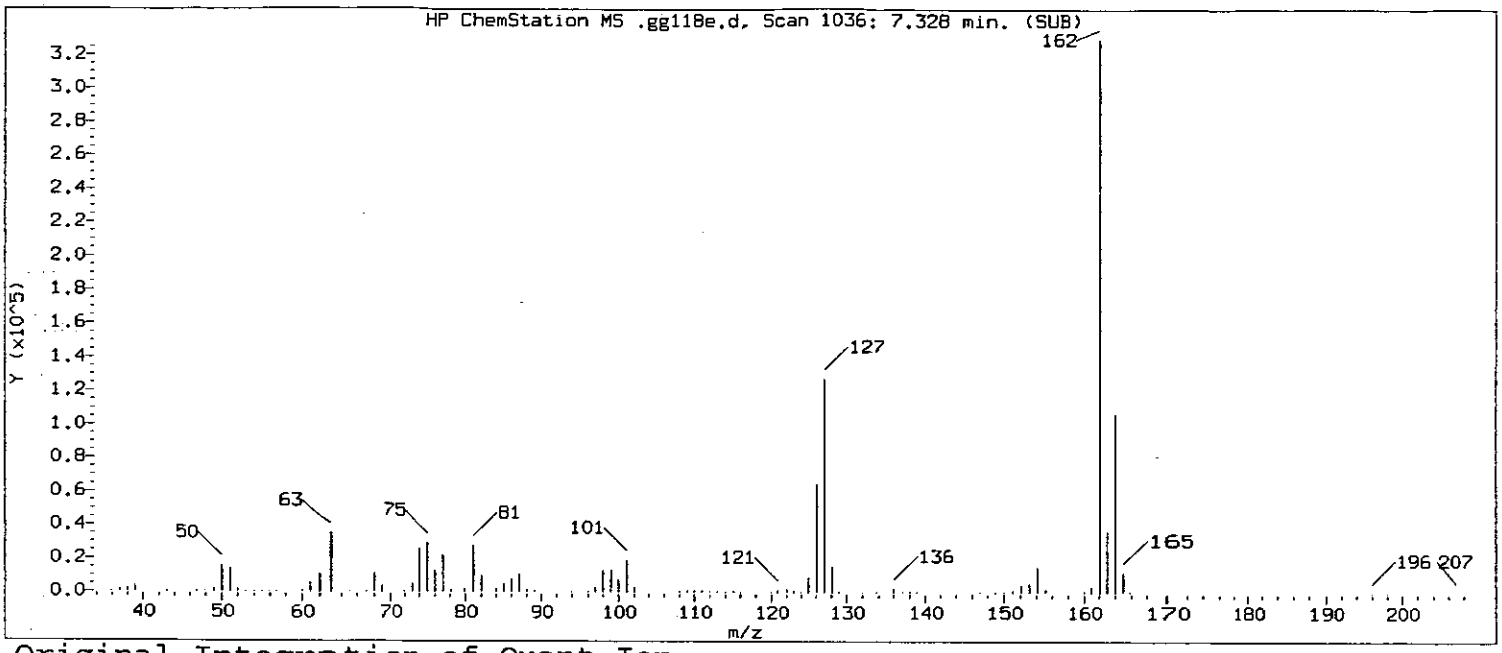
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

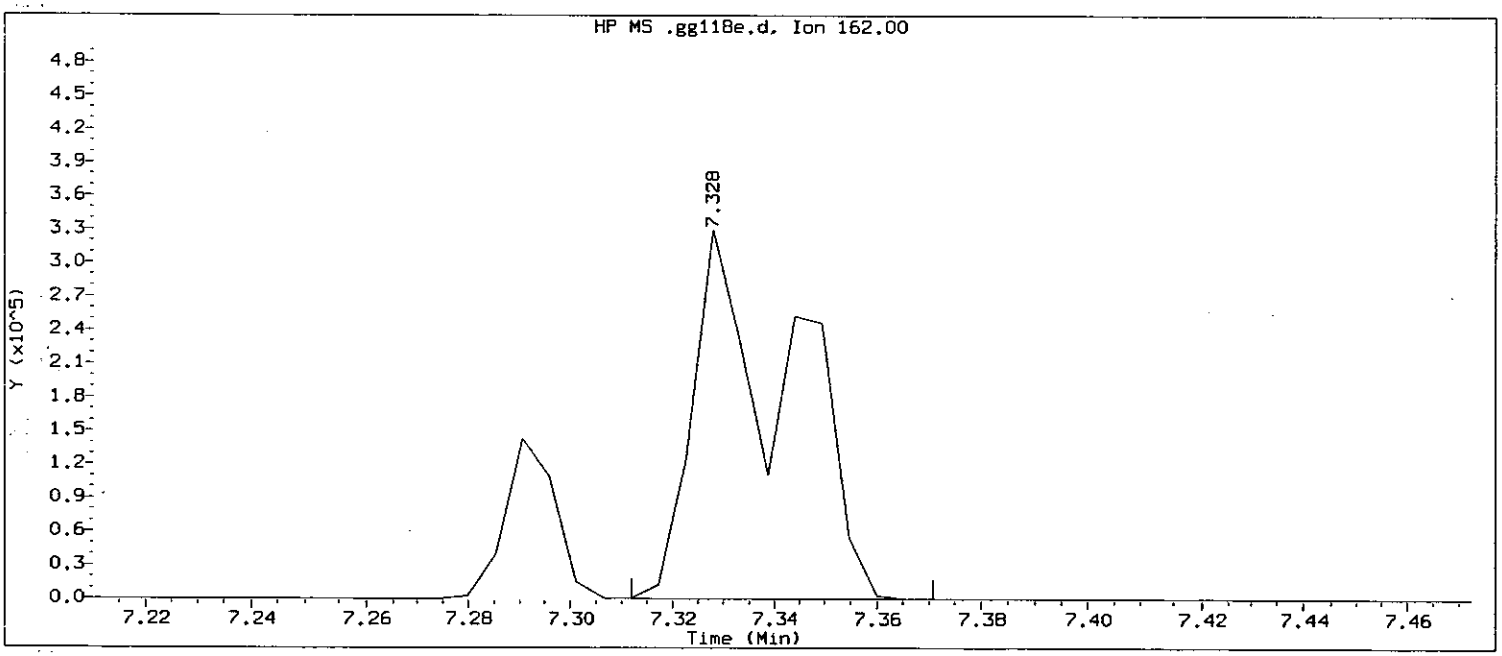
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.719	242	283881	13.924
169)	Di-n-octylphthalate	(6)	11.976	149	386869	13.639
189)	Dibenz(a,h)acridine	(6)	13.816	279	299929	14.012
190)	Dibenz(a,j)acridine	(6)	13.880	279	281058	13.832
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.356	256	199327	14.102
171)	Benzo(b)fluoranthene	(6)	12.356	252	392975	13.918
194)	Ronnel	(4)	9.409	285	96910	15.600
172)	Benzo(k)fluoranthene	(6)	12.393	252	428828	14.773
173)	Benzo(a)pyrene	(6)	12.730	252	363338	14.033
174)	Perylene-d12	(6)	12.805	264	769504	40.000
175)	3-Methylcholanthrene	(6)	13.153	268	209552	14.151
176)	Indeno(1,2,3-cd)pyrene	(6)	14.089	276	404465	14.155
177)	Dibenz(a,h)anthracene	(6)	14.121	278	330894	14.040
178)	Benzo(g,h,i)perylene	(6)	14.404	276	340967	14.189
84)	1-Chloronaphthalene	(3)	7.344	162	213914M	15.242
9)	2-Fluorophenol	(1)	3.894	112	104586	14.245
14)	Phenol-d5	(1)	4.857	99	148721	14.405
15)	Phenol-d6	(1)	4.857	99	148721	14.405
38)	Nitrobenzene-d5	(2)	5.681	82	125407	14.734
77)	2-Fluorobiphenyl	(3)	7.237	172	243443	15.119
118)	2,4,6-Tribromophenol	(3)	8.441	330	33204	14.150
155)	Terphenyl-d14	(5)	10.334	244	287240	14.051

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:10
Date, time and analyst ID of latest file update: 30-Jul-2007 22:10 Automation

Sample Name: SSTD015 Lab Sample ID: STD2057

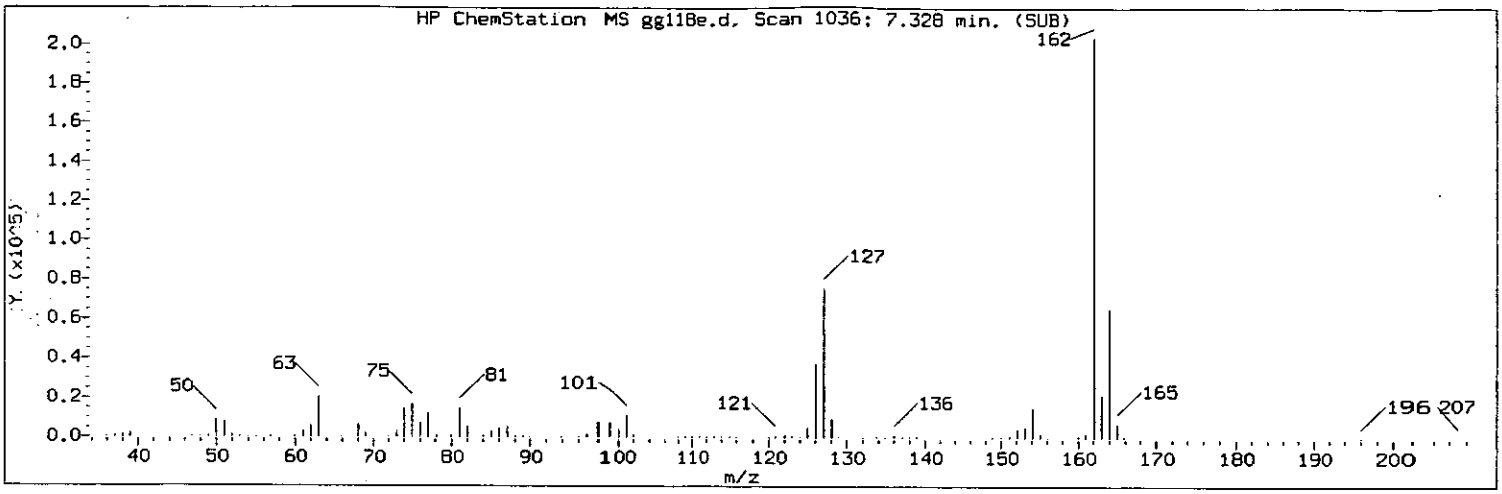
Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 1036
Retention Time (minutes): 7.328
Quant Ion : 162
Area : 437202
Concentration (ng/ul) : 22.4026
Integration start scan : 1032 Integration stop scan: 1043
Y at integration start : 86 Y at integration end: 57

0555

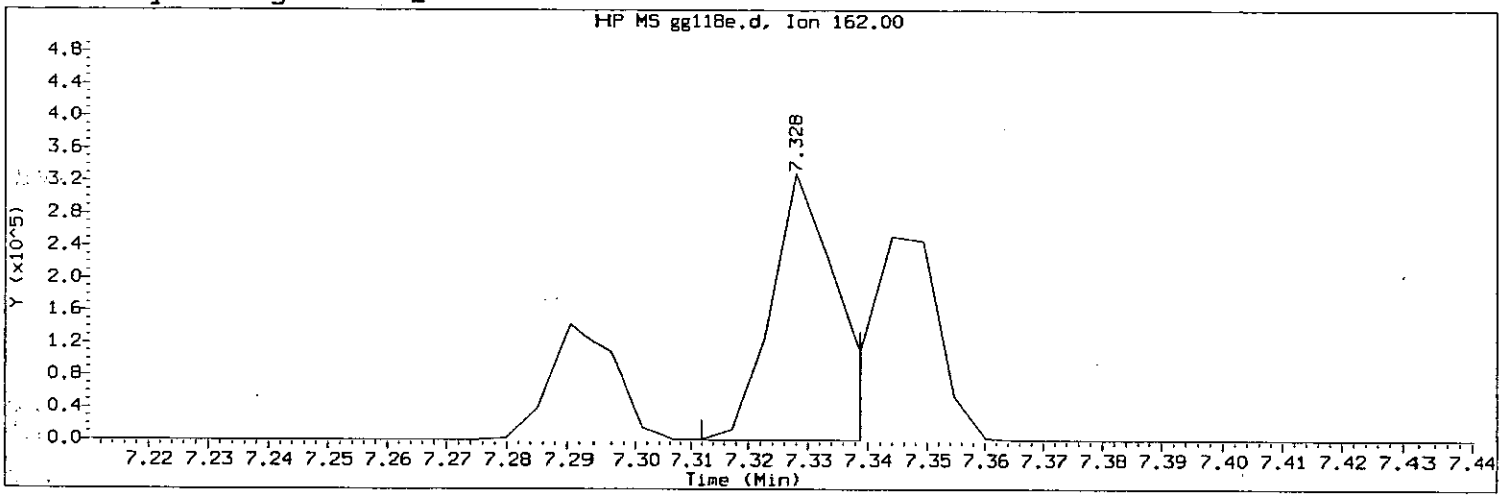
GJD1970 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118e.d, generated on 07/30/2007 at 22:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 1036
Retention Time (minutes): 7.328
Quant Ion : 162
Area (flag) : 258830 M
Concentration (ng/ul) : 15.1032
Integration start scan : 1032 Integration stop scan: 1037
Y at integration start : 86 Y at integration end: 73

Reason for manual integration (circle one): missed peak (improper integrati

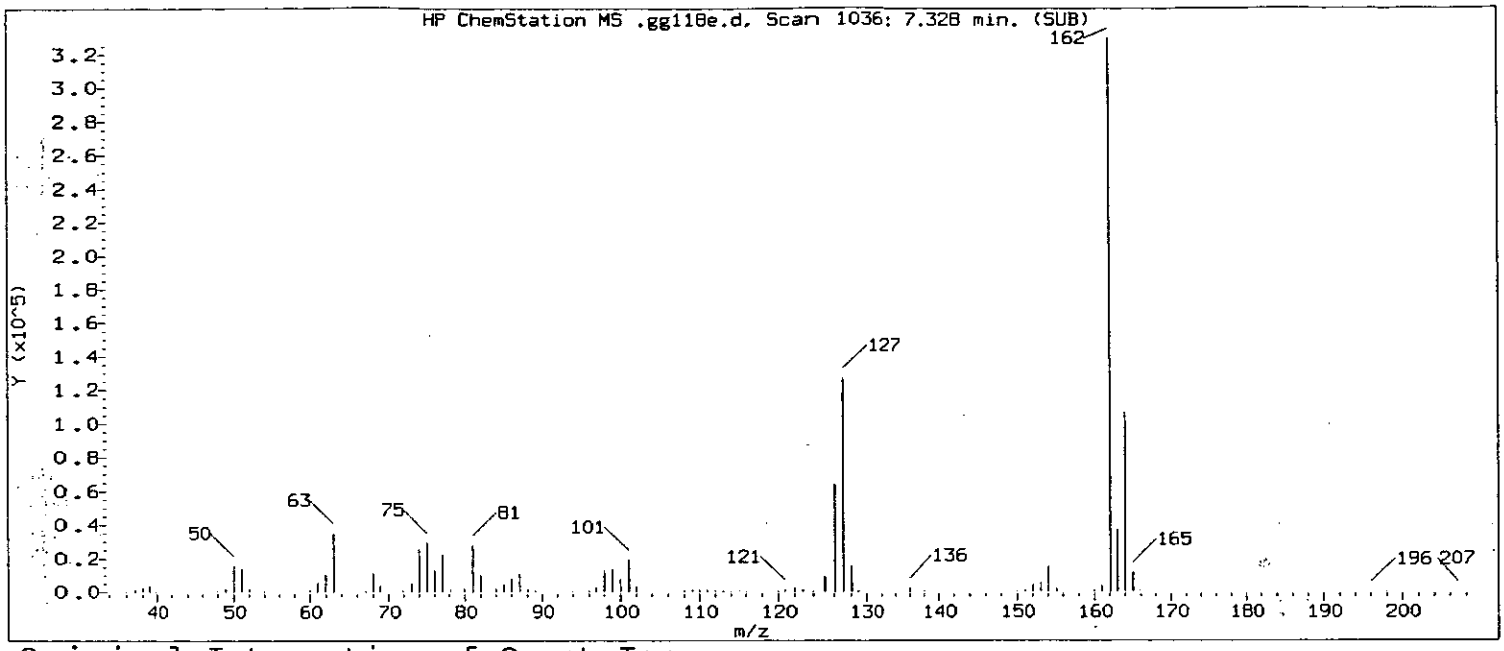
Analyst responsible for change: [signature] 7/30/7

8556

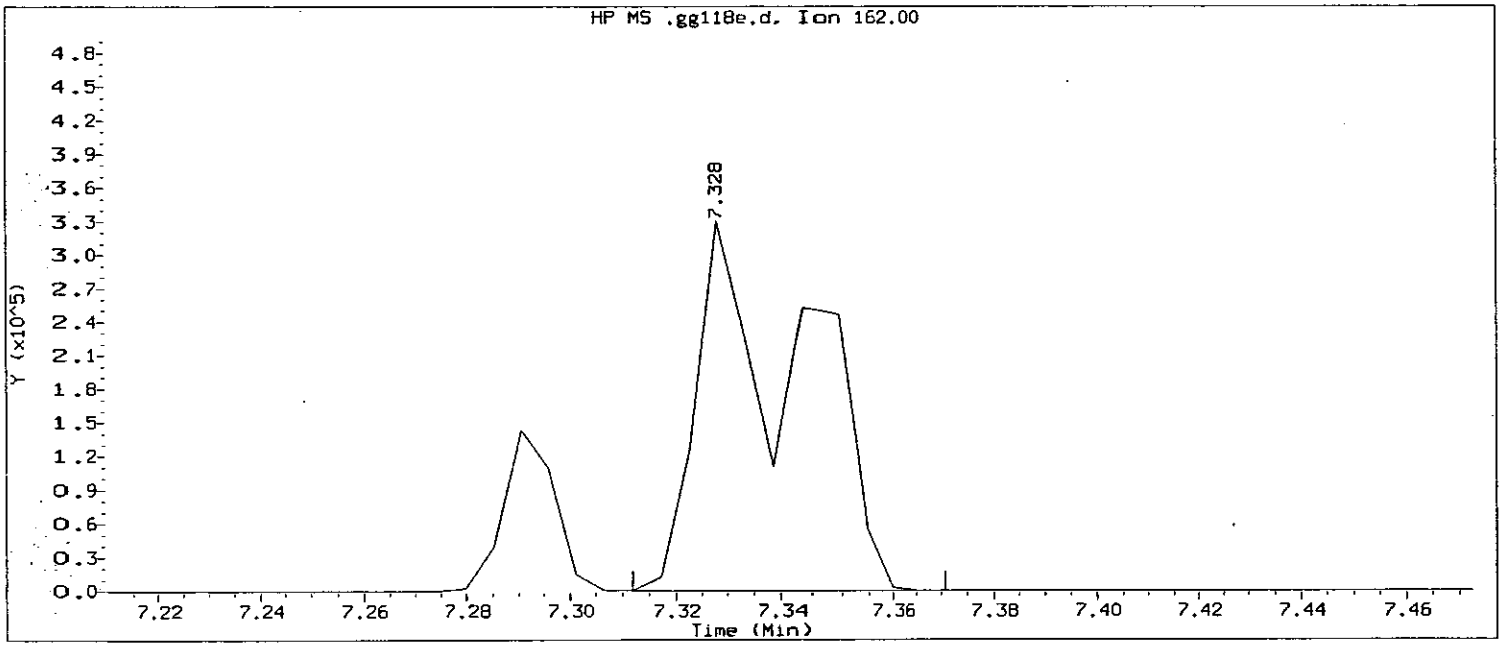
GC/MS audit/management approval: [signature] 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118e.d, generated on 07/30/2007 at 22:17

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:10
Date, time and analyst ID of latest file update: 30-Jul-2007 22:10 Automation

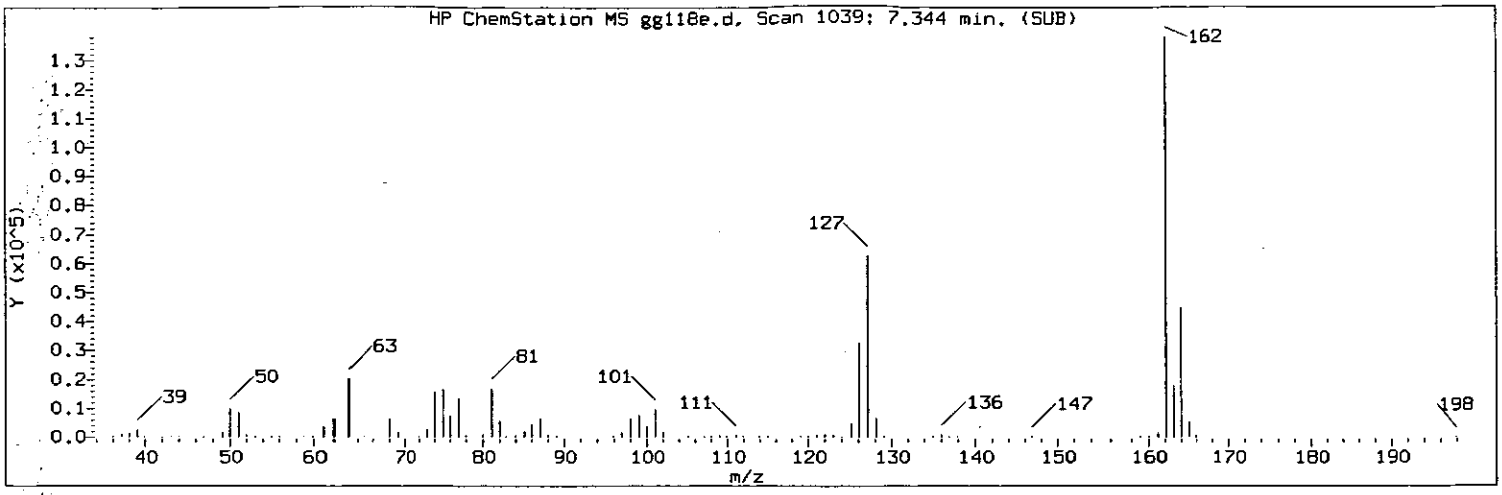
Sample Name: SSTD015 Lab Sample ID: STD2057

Compound Number	:	84
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1036
Retention Time (minutes)	:	7.328
Quant Ion	:	162
Area	:	437177
Concentration (ng/ul)	:	25.6997
Integration start scan	:	1032 Integration stop scan: 1043
Y at integration start	:	94 Y at integration end: 64

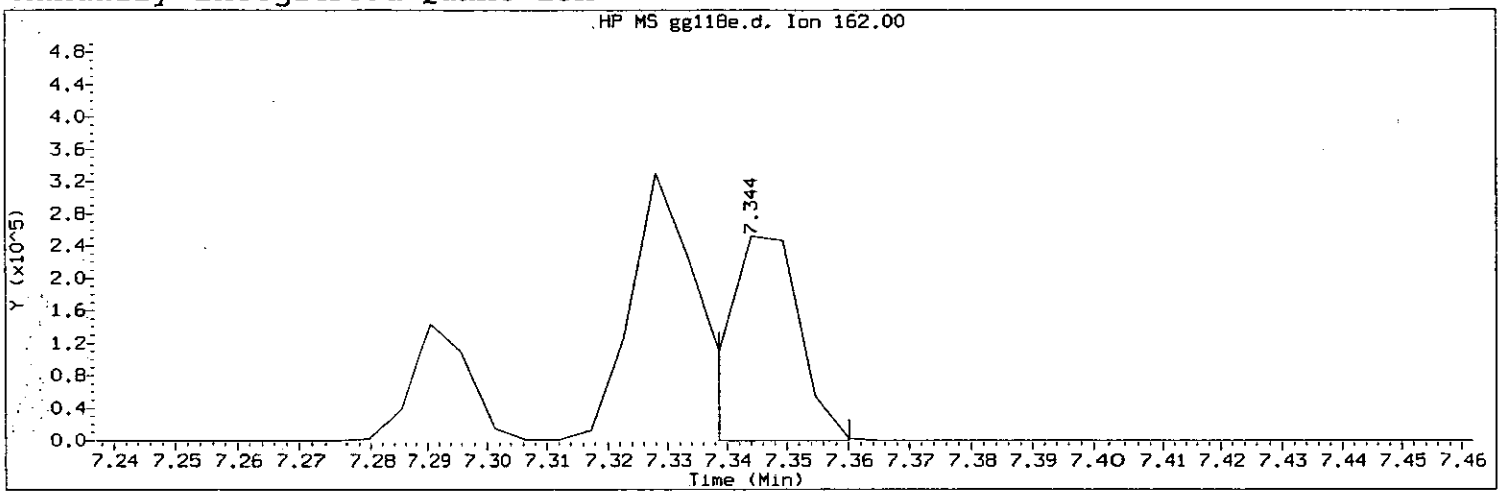
8557 GJ/7/30 7/30/4

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118e.d, generated on 07/30/2007 at 22:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118e.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 21:53 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:17
Date, time and analyst ID of latest file update: 30-Jul-2007 22:17 gjd01970

Sample Name: SSTD015 Lab Sample ID: STD2057

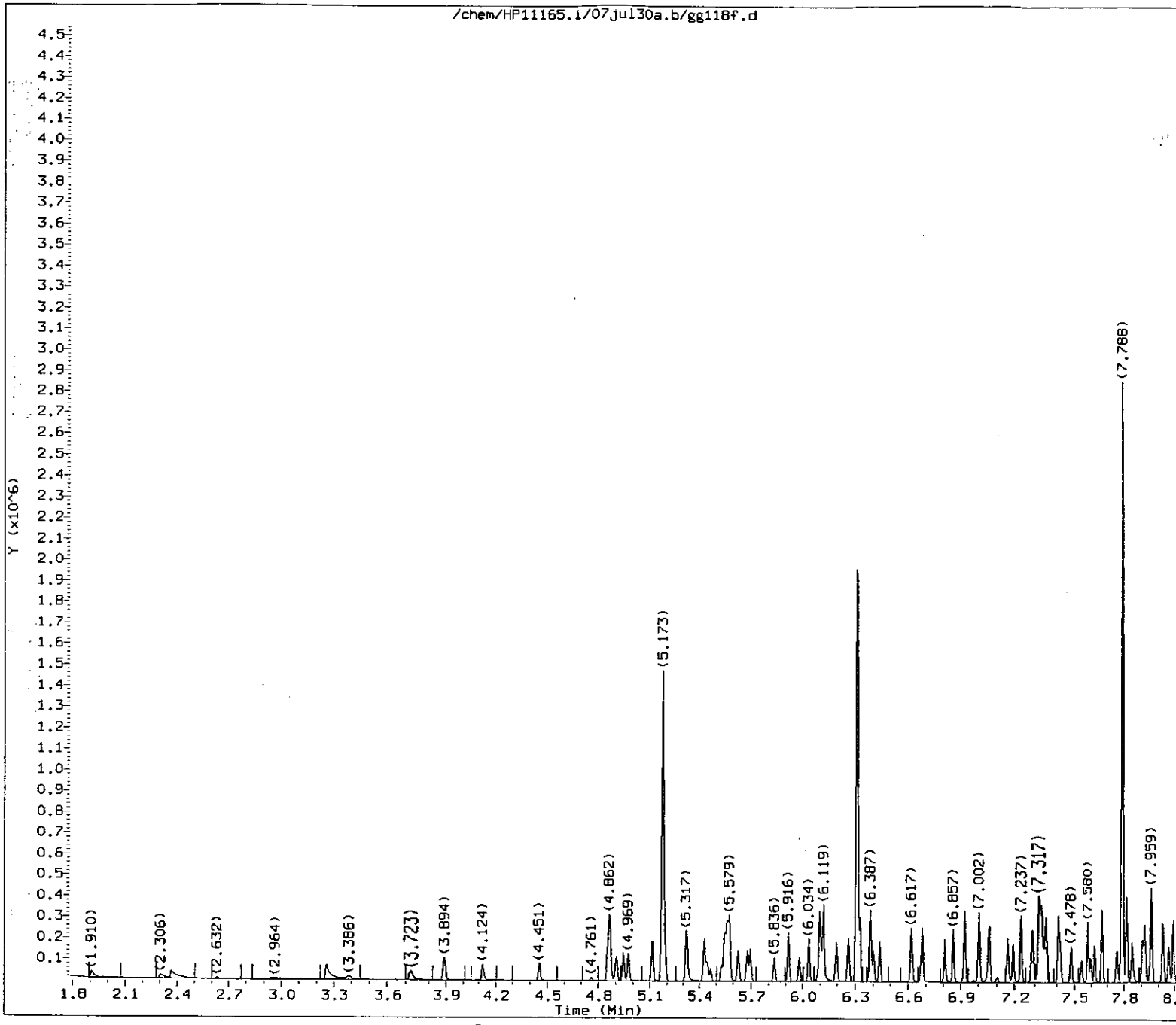
Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1039
Retention Time (minutes): 7.344
Quant Ion : 162
Area (flag) : 213914 M
Concentration (ng/ul) : 15.2424
Integration start scan : 1037 Integration stop scan: 1041
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: 1970 7/30/07

0550

GC/MS audit/management approval: 7/31/07



Quant Report

Target Revision 3.5

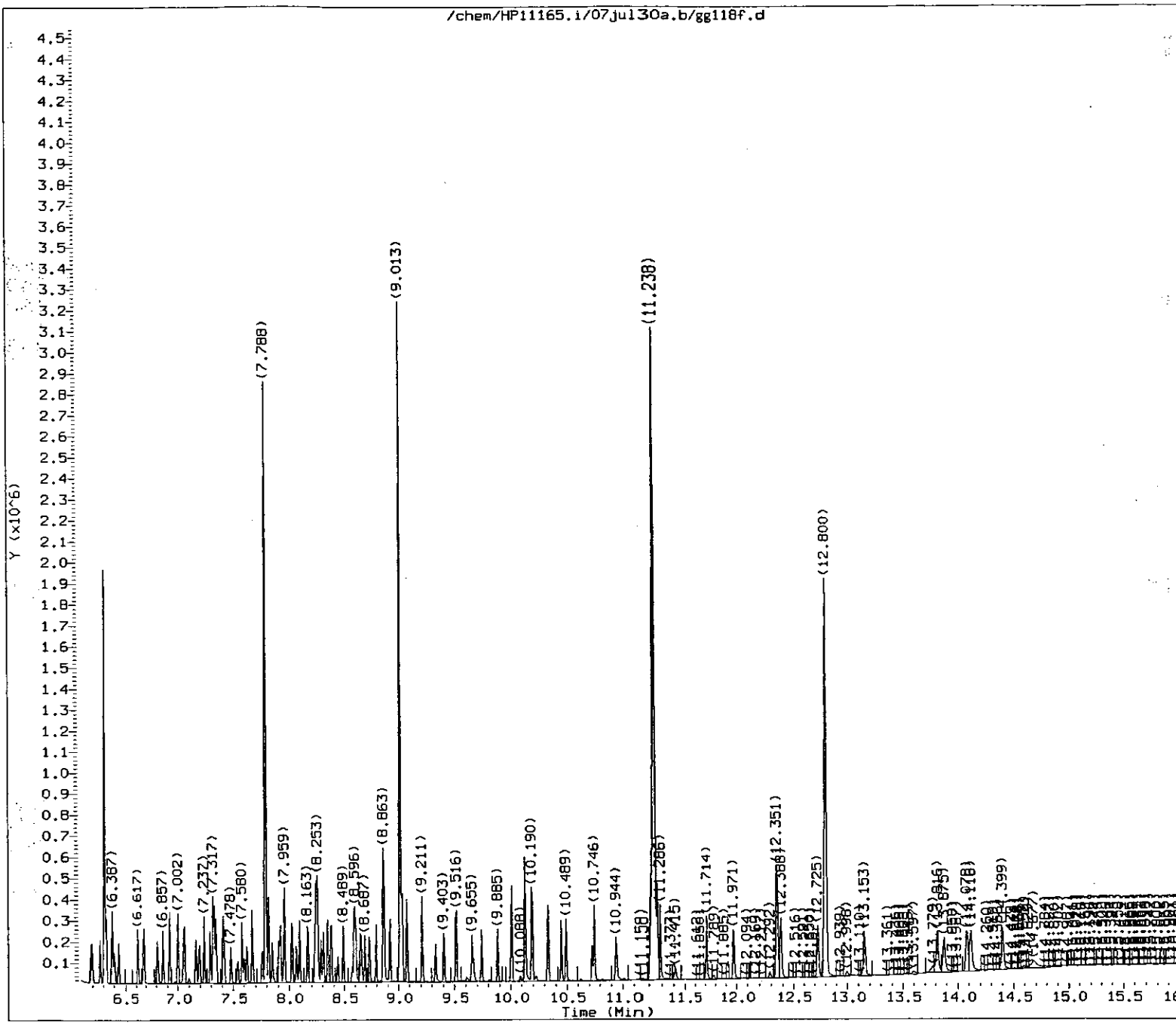
Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

0559

7/30/7



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

0568

G31470 7/30/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.910	88	15202	4.962
2) N-Nitrosodimethylamine	(1)	2.306	74	20027	4.344
3) Pyridine	(1)	2.370	79	37694	4.448
5) 2-Picoline	(1)	3.258	93	39857	4.633
6) N-Nitrosomethylethylamine	(1)	3.392	88	20431	4.992
7) Methyl methanesulfonate	(1)	3.723	80	16844	4.741
10) N-Nitrosodiethylamine	(1)	4.124	102	19740	4.696
11) Ethyl methanesulfonate	(1)	4.451	109	18903	4.693
13) Aniline	(1)	4.862	93	63612	4.726
16) Phenol	(1)	4.868	94	56231	4.781
17) Pentachloroethane	(1)	4.905	167	11194	4.802
18) bis(2-Chloroethyl)ether	(1)	4.943	93	40760	4.892
19) 2-Chlorophenol	(1)	4.975	128	33466	4.675
20) 1,3-Dichlorobenzene	(1)	5.114	146	34989	4.884
21) 1,4-Dichlorobenzene-d4	(1)	5.173	152	173699	40.000
22) 1,4-Dichlorobenzene	(1)	5.189	146	35063	4.775
24) Benzyl alcohol	(1)	5.312	108	27470	4.827
25) 1,2-Dichlorobenzene	(1)	5.322	146	34026	4.873
26) 2-Methylphenol	(1)	5.429	108	36864	4.590
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.440	45	43845	4.784
28) bis(2-Chloroisopropyl)ether	(1)	5.440	45	43845	4.784
29) N-Nitrosopyrrolidine	(1)	5.531	100	21866	4.549
30) Acetophenone	(1)	5.547	105	55430	4.783
31) N-Nitroso-di-n-propylamine	(1)	5.558	70	27227	4.755
32) N-Nitrosomorpholine	(1)	5.574	56	20313	4.866
33) 4-Methylphenol	(1)	5.568	108	42602	4.731
34) o-Toluidine	(1)	5.579	106	66853	4.847
37) Hexachloroethane	(1)	5.627	117	14094	4.893
39) Nitrobenzene	(2)	5.697	77	40449	4.862
40) N-Nitrosopiperidine	(2)	5.836	114	19624	4.676
41) Isophorone	(2)	5.916	82	79140	4.781
42) 2-Nitrophenol	(2)	5.980	139	16323	4.499
44) 2,4-Dimethylphenol	(2)	6.039	107	37954	4.595
45) O,O,O-triethylphosphorothioate	(2)	6.098	198	18409	4.921
46) bis(2-Chloroethoxy)methane	(2)	6.119	93	48324	4.872
47) Benzoic acid	(2)	6.119	105	81288	13.709
49) 2,4-Dichlorophenol	(2)	6.194	162	28590	4.625
50) 1,2,4-Trichlorobenzene	(2)	6.264	180	30364	4.937
52) Naphthalene-d8	(2)	6.312	136	770426	40.000
53) Naphthalene	(2)	6.328	128	105372	4.871
55) 4-Chloroaniline	(2)	6.381	127	44358	4.887
56) 2,6-Dichlorophenol	(2)	6.387	162	28016	4.770
57) Hexachloropropene	(2)	6.403	213	16660	4.625

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59) Hexachlorobutadiene	(2)	6.440	225	15855	4.934
62) Caprolactam	(2)	6.676	113	15019	4.752
63) N-Nitrosodi-n-butylamine	(2)	6.681	84	37429	5.477
67) 4-Chloro-3-methylphenol	(2)	6.809	107	35088	4.641
68) Safrole	(2)	6.857	162	27164	4.742
69) 2-Methylnaphthalene	(2)	6.922	142	68636	4.812
70) 1-Methylnaphthalene	(2)	7.002	142	67275	4.768
71) Hexachlorocyclopentadiene	(3)	7.055	237	12619	3.800
72) 1,2,4,5-Tetrachlorobenzene	(3)	7.061	216	29802	4.886
73) cis-Isosafrole	(3)	7.104	162	2970	0.529
74) 2,4,6-Trichlorophenol	(3)	7.162	196	19648	4.564
76) 2,4,5-Trichlorophenol	(3)	7.194	196	21354	4.342
78) trans-Isosafrole	(3)	7.291	162	30799	4.197
79) Isosafrole	(3)	7.291	162	30799	4.715
80) Biphenyl	(3)	7.317	154	91243	4.906
81) Diphenyl	(3)	7.317	154	91243	4.906
82) 1,1'-Biphenyl	(3)	7.317	154	91243	4.906
83) 2-Chloronaphthalene	(3)	7.328	162	88786M	5.246
87) Diphenyl ether	(3)	7.408	170	48380	4.920
88) 2-Nitroaniline	(3)	7.419	138	22581	4.426
89) 1,4-Naphthoquinone	(3)	7.478	158	22588	4.223
90) 1,4-Dinitrobenzene	(3)	7.542	168	9700	3.816
91) Dimethylphthalate	(3)	7.580	163	80867	4.908
92) 1,3-Dinitrobenzene	(3)	7.601	168	12882	4.353
93) 2,6-Dinitrotoluene	(3)	7.628	165	17266	4.479
94) Acenaphthylene	(3)	7.670	152	109391	4.761
96) 3-Nitroaniline	(3)	7.761	138	20903	4.554
97) Acenaphthene-d10	(3)	7.788	164	506066	40.000
98) Acenaphthene	(3)	7.815	153	72482	4.936
99) 2,4-Dinitrophenol	(3)	7.847	184	22598	10.915
100) Pentachlorobenzene	(3)	7.922	250	29651	4.948
102) 4-Nitrophenol	(3)	7.911	109	24294	9.011
103) Dibenzofuran	(3)	7.959	168	101594	4.927
104) 2,4-Dinitrotoluene	(3)	7.954	165	23684	4.677
105) 1-Naphthylamine	(3)	8.023	143	76351	4.913
106) 2,3,4,6-Tetrachlorophenol	(3)	8.066	232	17912	4.671
107) 2-Naphthylamine	(3)	8.093	143	79951	4.985
108) Diethylphthalate	(3)	8.163	149	77318	4.944
109) Thionazin	(3)	8.232	107	18053	5.821
110) Fluorene	(3)	8.243	166	85511	5.111
111) 4-Chlorophenyl-phenylether	(3)	8.253	204	39609	4.995
112) 5-Nitro-o-toluidine	(3)	8.259	152	24623	4.816
113) 4-Nitroaniline	(3)	8.259	138	24125	4.911

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.286	198	23264	7.404
115)	1-Nitronaphthalene	(4)	8.312	173	16459	4.634
116)	N-Nitrosodiphenylamine	(4)	8.350	169	61982	4.774
117)	1,2-Diphenylhydrazine	(4)	8.376	77	90849	4.703
119)	Tetraethyldithiopyrophosphate	(4)	8.489	97	14066	4.781
120)	1,3,5-Trinitrobenzene	(4)	8.574	213	5750	3.114
121)	Diallate (peak 1)	(4)	8.590	86	31452	3.455
122)	Phorate	(4)	8.596	75	52622	4.084
123)	Phenacetin	(4)	8.606	108	45187	4.529
124)	4-Bromophenyl-phenylether	(4)	8.655	248	23021	4.792
125)	Diallate (peak 2)	(4)	8.660	86	10883	1.211
126)	Hexachlorobenzene	(4)	8.692	284	26156	4.809
127)	Dimethoate	(4)	8.729	87	38750	5.488
128)	Diallate TRANS/CIS	(4)	23.156	86	42335	4.666
130)	Pentachlorophenol	(4)	8.858	266	43200	13.055
131)	Pentachloronitrobenzene	(4)	8.863	237	10010	4.901
132)	4-Aminobiphenyl	(4)	8.863	169	81157	4.999
133)	Pronamide	(4)	8.922	173	33000	4.532
134)	Phenanthrene-d10	(4)	9.013	188	972003	40.000
135)	Dinoseb	(4)	9.013	211	12125	3.086
136)	Phenanthrene	(4)	9.034	178	130011	4.842
137)	Anthracene	(4)	9.072	178	128662	4.690
139)	Carbazole	(4)	9.211	167	122102	4.775
140)	Methyl parathion	(4)	9.334	109	26227	4.788
141)	Di-n-butylphthalate	(4)	9.516	149	134804	4.781
142)	Parathion	(4)	9.655	109	16277	4.291
143)	4-Nitroquinoline-1-oxide	(4)	9.671	190	4701	2.609
144)	Methapyrilene	(4)	9.740	97	44069	6.234
145)	Isodrin	(4)	9.885	193	12834	4.749
146)	Fluoranthene	(4)	10.008	202	138879	4.673
151)	Benzidine	(5)	10.125	184	205513	12.190
153)	Pyrene	(5)	10.190	202	143969	4.568
157)	p-Dimethylaminoazobenzene	(5)	10.452	225	27786	4.203
158)	Chlorobenzilate	(5)	10.489	139	40239	4.509
159)	3,3'-Dimethylbenzidine	(5)	10.730	212	54505	3.747
160)	Butylbenzylphthalate	(5)	10.746	149	58912	4.478
161)	2-Acetylaminofluorene	(5)	10.944	181	44763	3.852
163)	3,3'-Dichlorobenzidine	(5)	11.211	252	47125	4.332
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.222	231	24500	4.483
165)	Benzo(a)anthracene	(5)	11.227	228	139020	4.700
166)	Chrysene-d12	(5)	11.238	240	997516	40.000
167)	Chrysene	(5)	11.259	228	133062	4.712
168)	bis(2-Ethylhexyl)phthalate	(5)	11.286	149	81324	4.620

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

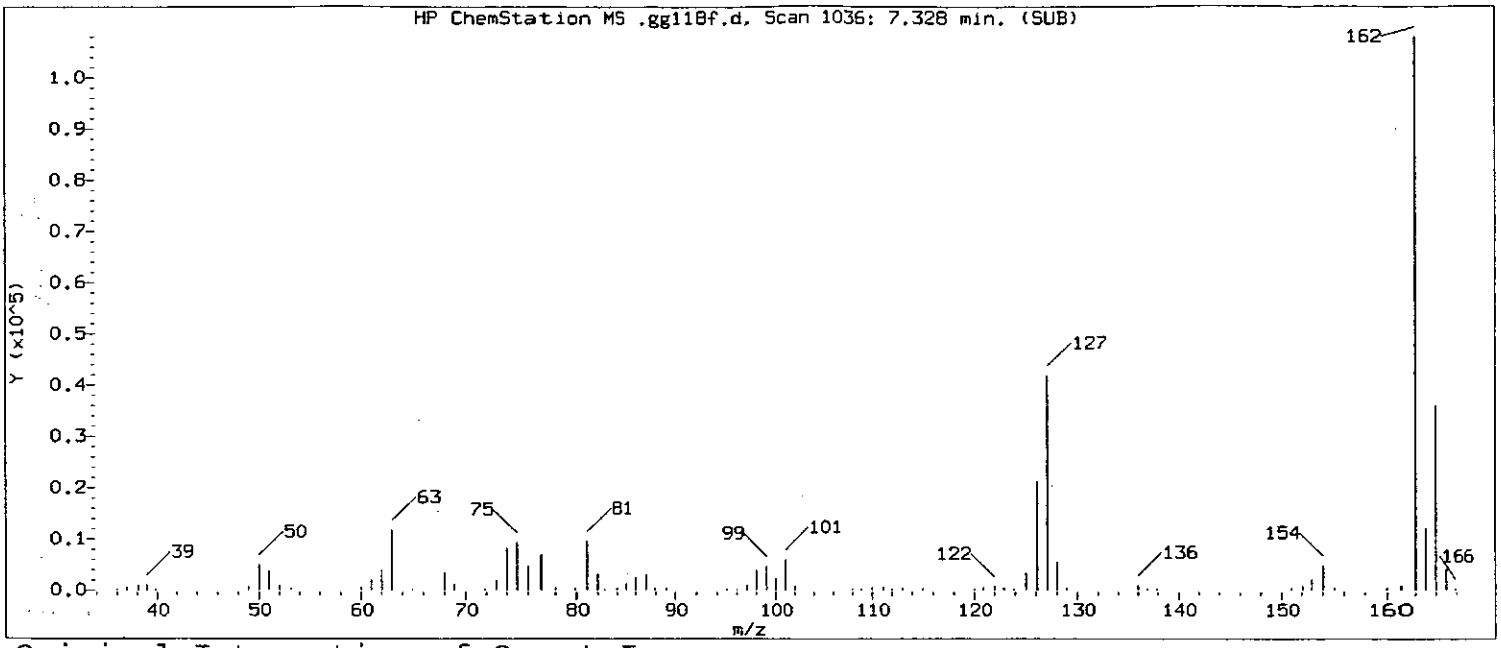
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

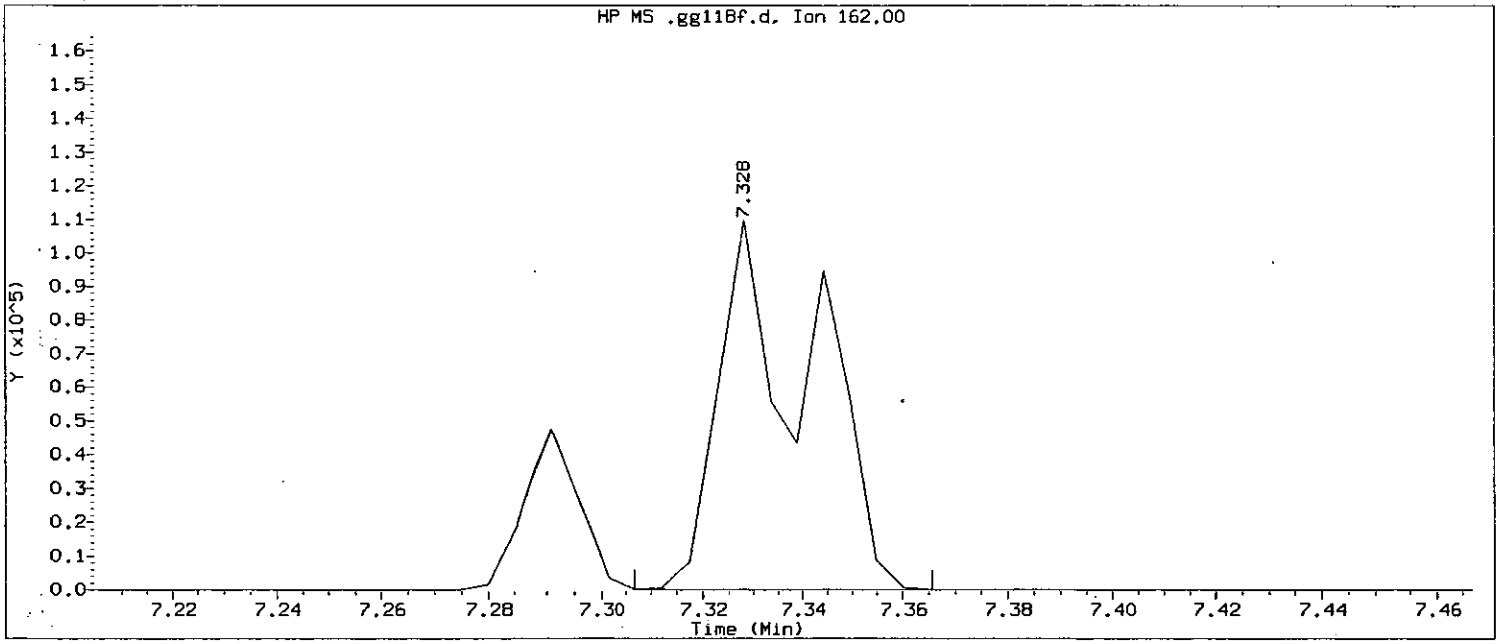
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.714	242	89698	4.412
169)	Di-n-octylphthalate	(6)	11.971	149	119377	4.214
189)	Dibenz(a,h)acridine	(6)	13.816	279	93298	4.342
190)	Dibenz(a,j)acridine	(6)	13.875	279	91497	4.465
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.351	256	61236	4.320
171)	Benzo(b)fluoranthene	(6)	12.356	252	135448M	4.711
194)	Ronnel	(4)	9.409	285	30900	5.005
172)	Benzo(k)fluoranthene	(6)	12.388	252	127970M	4.385
173)	Benzo(a)pyrene	(6)	12.725	252	116455	4.460
174)	Perylene-d12	(6)	12.800	264	792692	40.000
175)	3-Methylcholanthrene	(6)	13.153	268	65635	4.405
176)	Indeno(1,2,3-cd)pyrene	(6)	14.083	276	128919	4.472
177)	Dibenz(a,h)anthracene	(6)	14.116	278	105548	4.444
178)	Benzo(g,h,i)perylene	(6)	14.399	276	108969	4.491
84)	1-Chloronaphthalene	(3)	7.344	162	65541M	4.812
9)	2-Fluorophenol	(1)	3.894	112	32670	4.553
14)	Phenol-d5	(1)	4.852	99	46130	4.569
15)	Phenol-d6	(1)	4.852	99	46130	4.569
38)	Nitrobenzene-d5	(2)	5.681	82	40293	4.877
77)	2-Fluorobiphenyl	(3)	7.237	172	74846	4.793
118)	2,4,6-Tribromophenol	(3)	8.441	330	10228	4.540
155)	Terphenyl-d14	(5)	10.329	244	92186	4.506

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:35
Date, time and analyst ID of latest file update: 30-Jul-2007 22:35 Automation

Sample Name: SSTD005 Lab Sample ID: STD2057

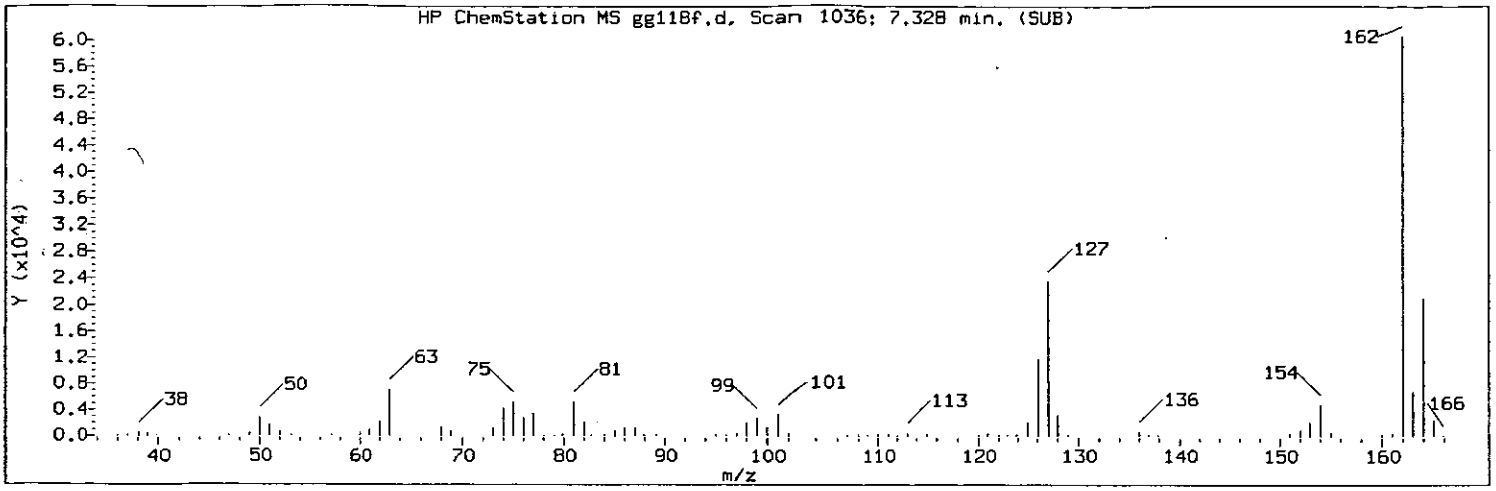
Compound Number	:	83
Compound Name	:	2-Chloronaphthalene
Scan Number	:	1036
Retention Time (minutes)	:	7.328
Quant Ion	:	162
Area	:	140325
Concentration (ng/ul)	:	7.5276
Integration start scan	:	1031 Integration stop scan: 1042
Y at integration start	:	30 Y at integration end: 0

8565

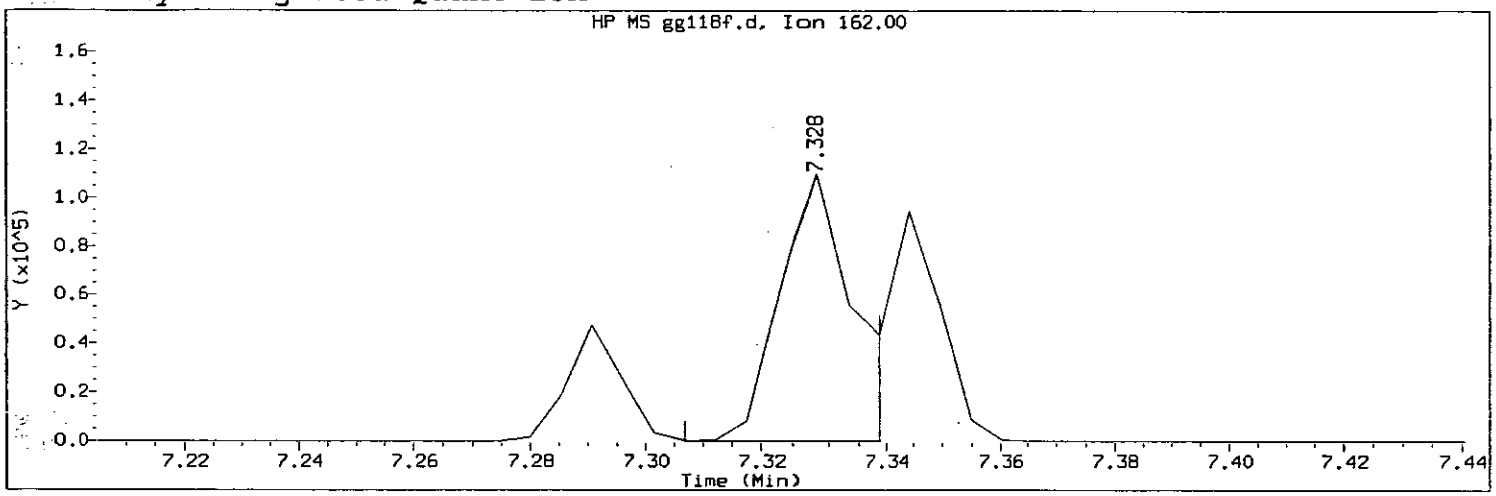
GB/1970
7/31/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 1036
Retention Time (minutes): 7.328
Quant Ion : 162
Area (flag) : 88786 M
Concentration (ng/ul) : 5.2463
Integration start scan : 1031 Integration stop scan: 1037
Y at integration start : 30 Y at integration end: 14

Reason for manual integration (circle one): missed peak improper integrati

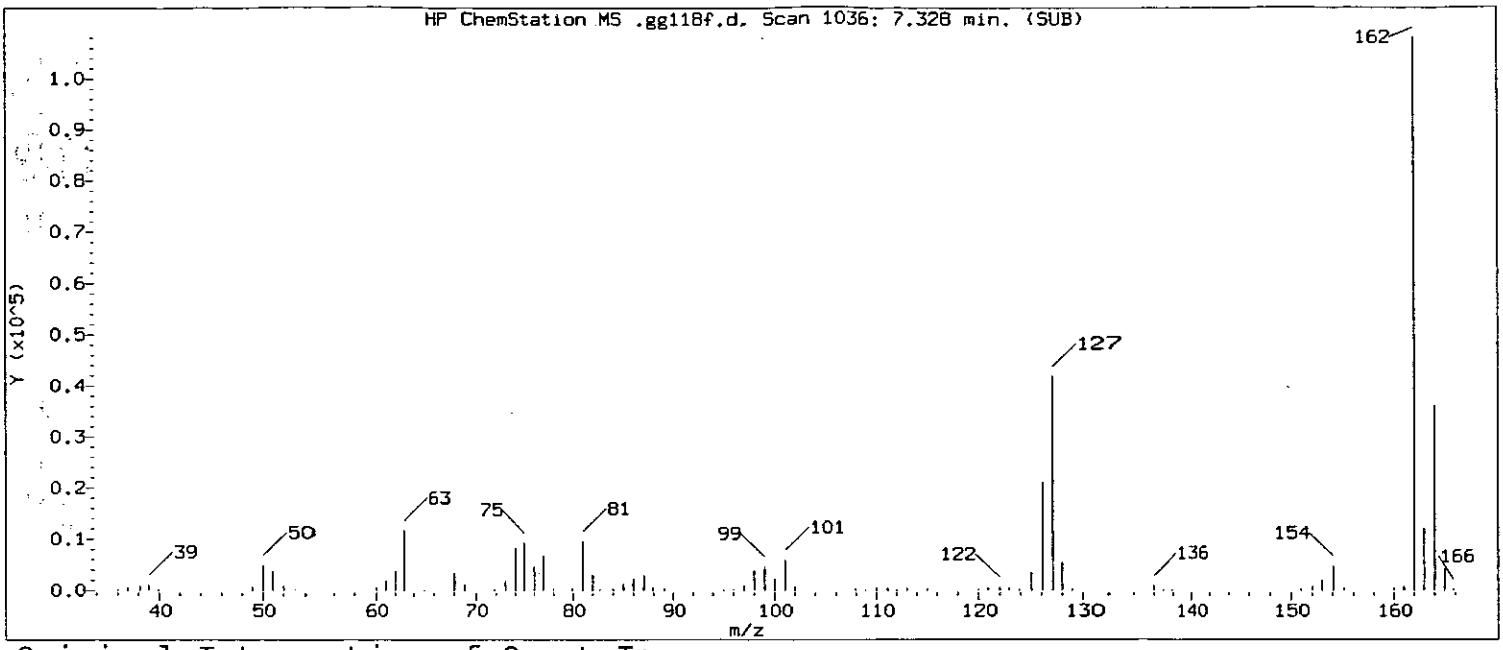
Analyst responsible for change: 1970 7/30/07

8566

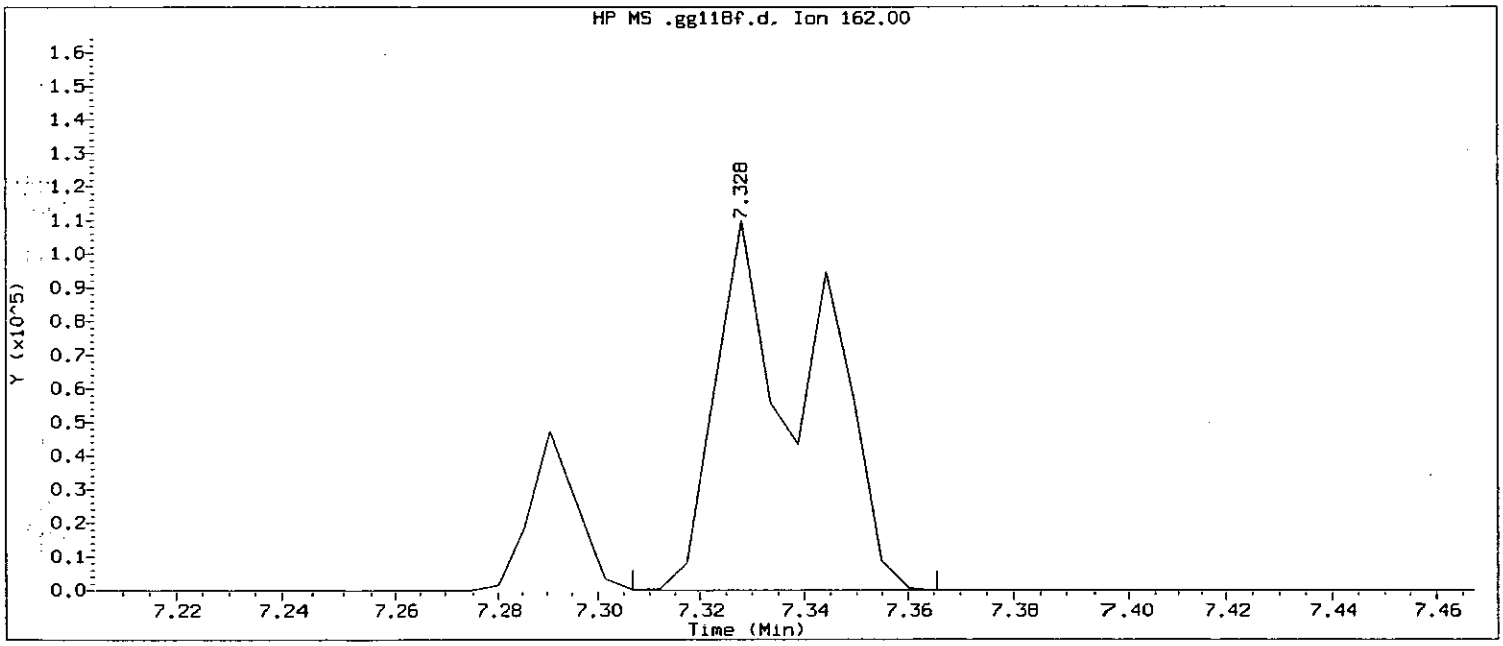
GC/MS audit/management approval: 07/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:35
Date, time and analyst ID of latest file update: 30-Jul-2007 22:35 Automation

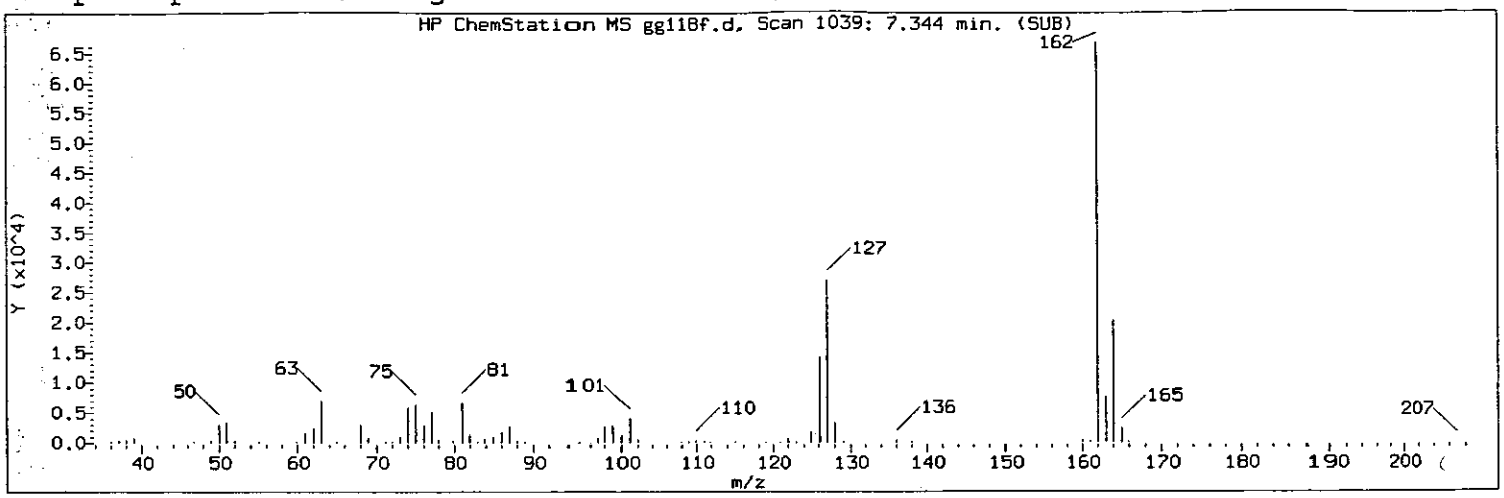
Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1036
Retention Time (minutes): 7.328
Quant Ion : 162
Area : 140302
Concentration (ng/ul) : 8.7079
Integration start scan : 1031 Integration stop scan: 1042
Y at integration start : 43 Y at integration end: 0

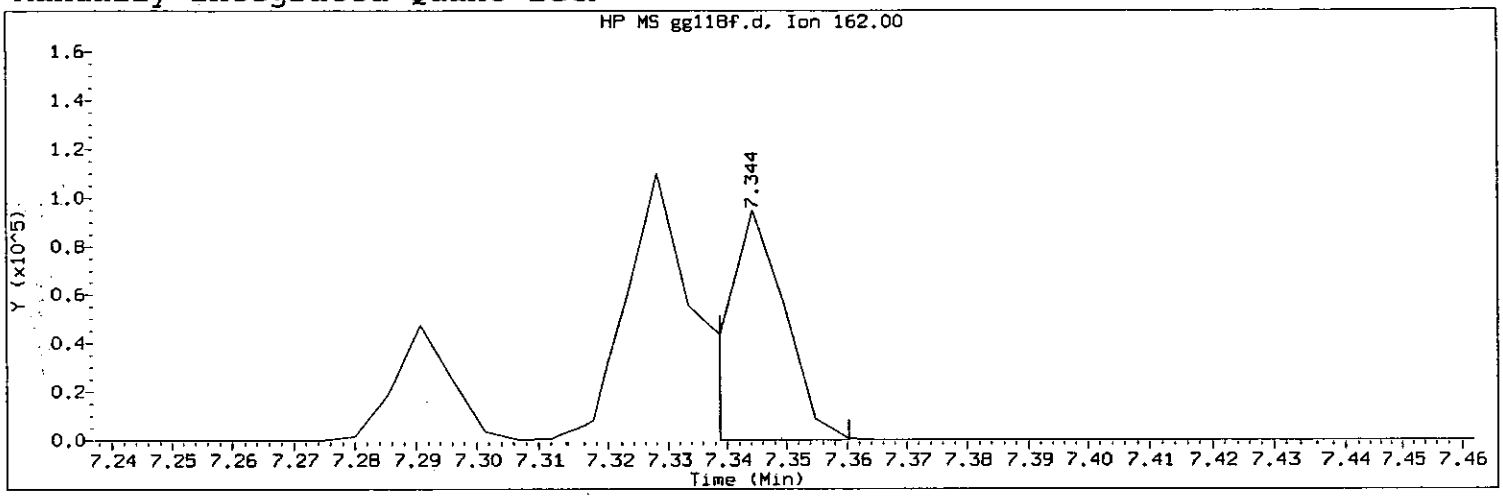
8567 7/30/07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 1039
Retention Time (minutes): 7.344
Quant Ion : 162
Area (flag) : 65541 M
Concentration (ng/ul) : 4.8121
Integration start scan : 1037 Integration stop scan: 1041
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integrati

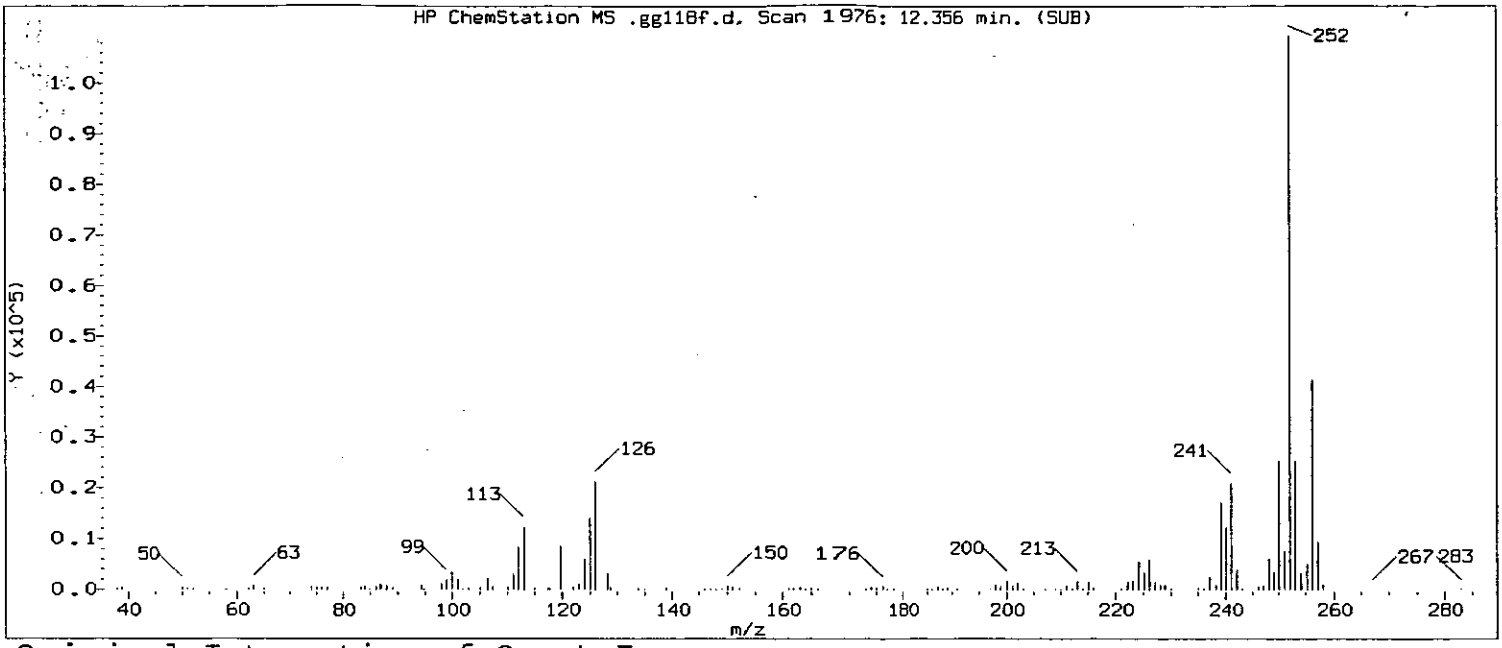
Analyst responsible for change: 1971 7/30/07

8568

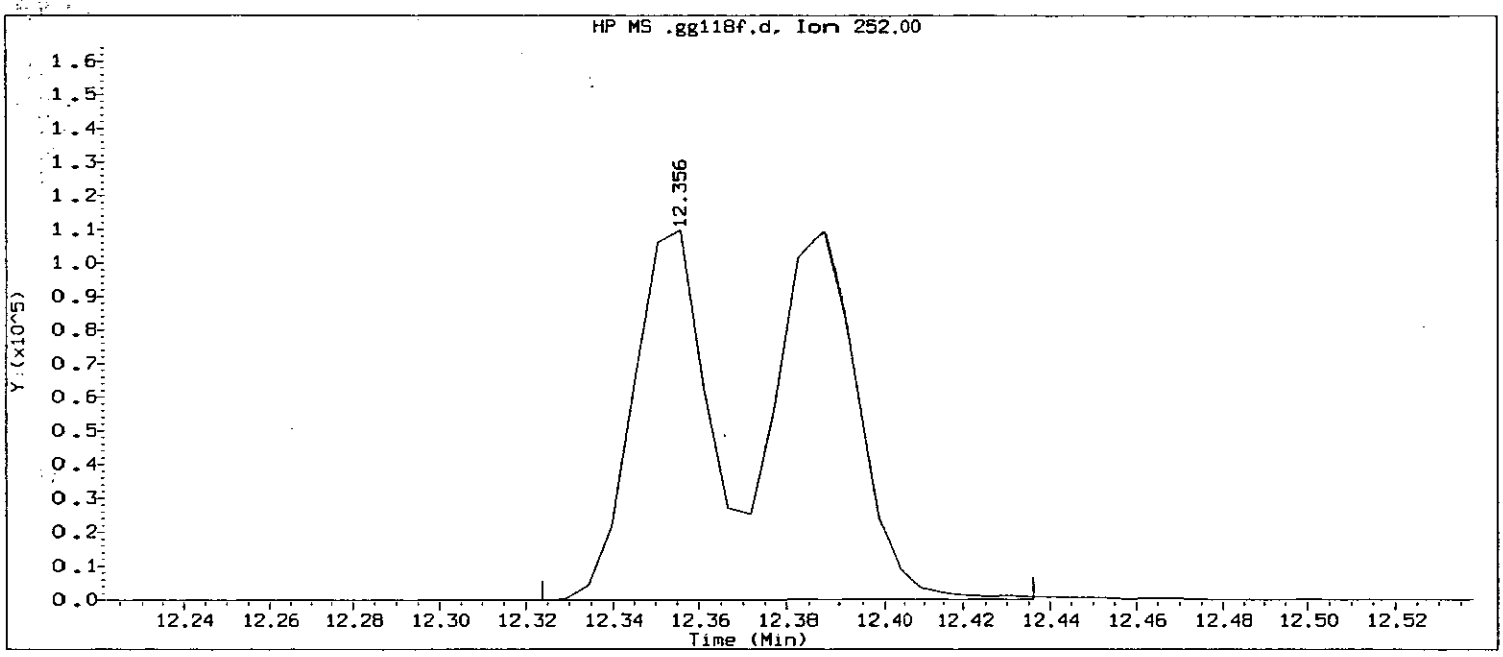
GC/MS audit/management approval: 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:35
Date, time and analyst ID of latest file update: 30-Jul-2007 22:35 Automation

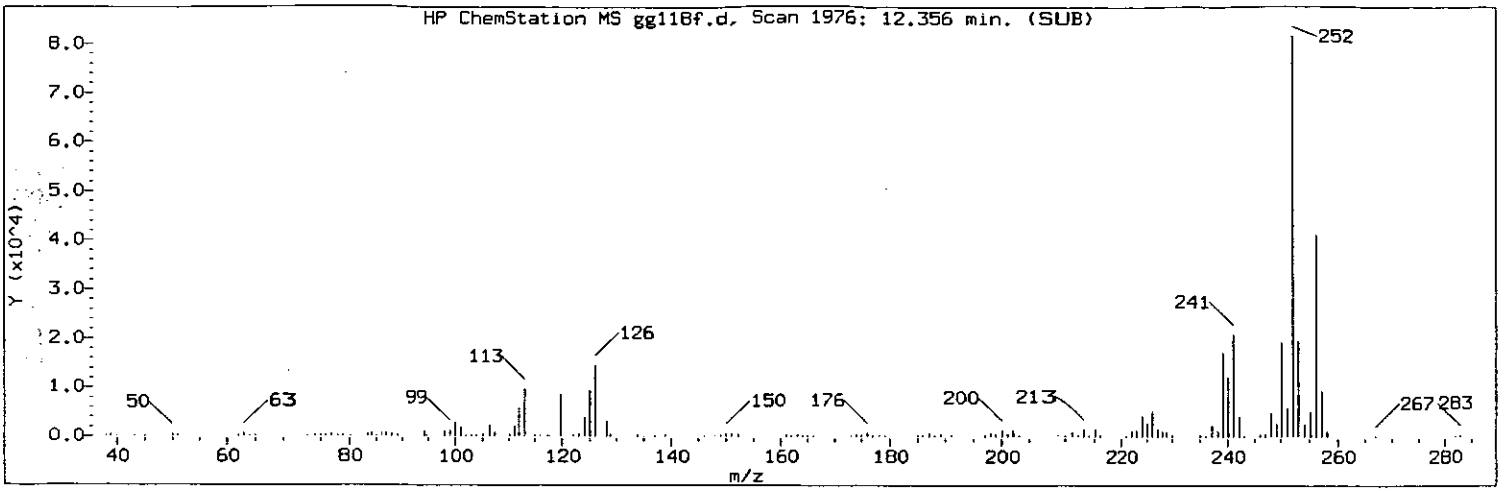
Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number	: 171
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1976
Retention Time (minutes)	: 12.356
Quant Ion	: 252
Area	: 256092
Concentration (ng/ul)	: 7.8135
Integration start scan	: 1969 Integration stop scan: 1990
Y at integration start	: 0 Y at integration end: 183

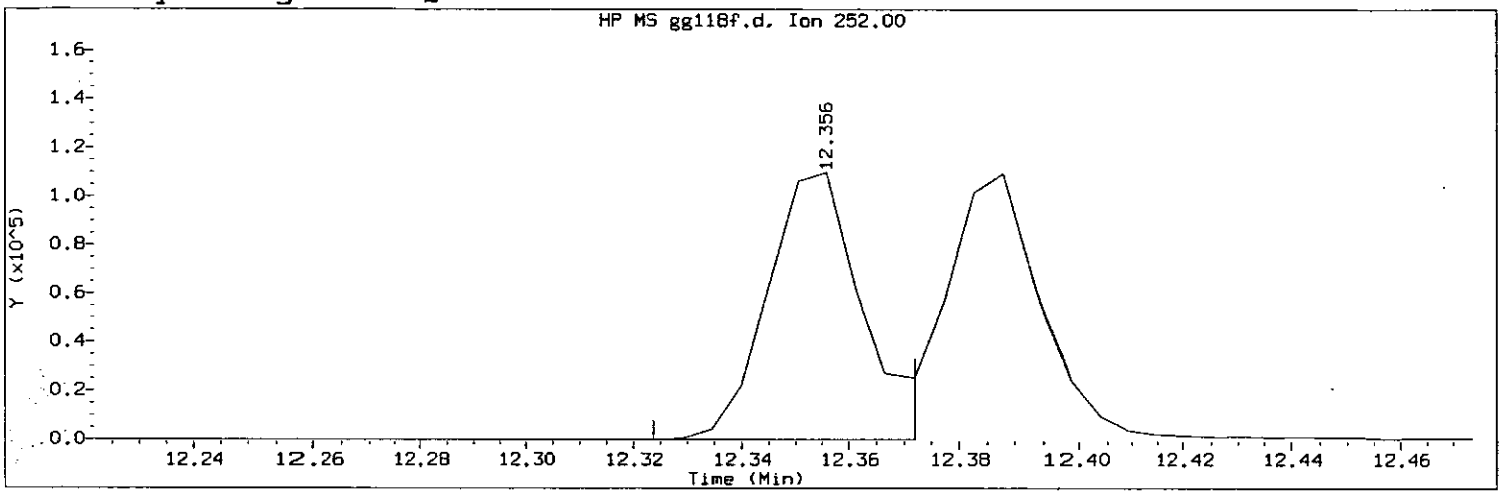
8569

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

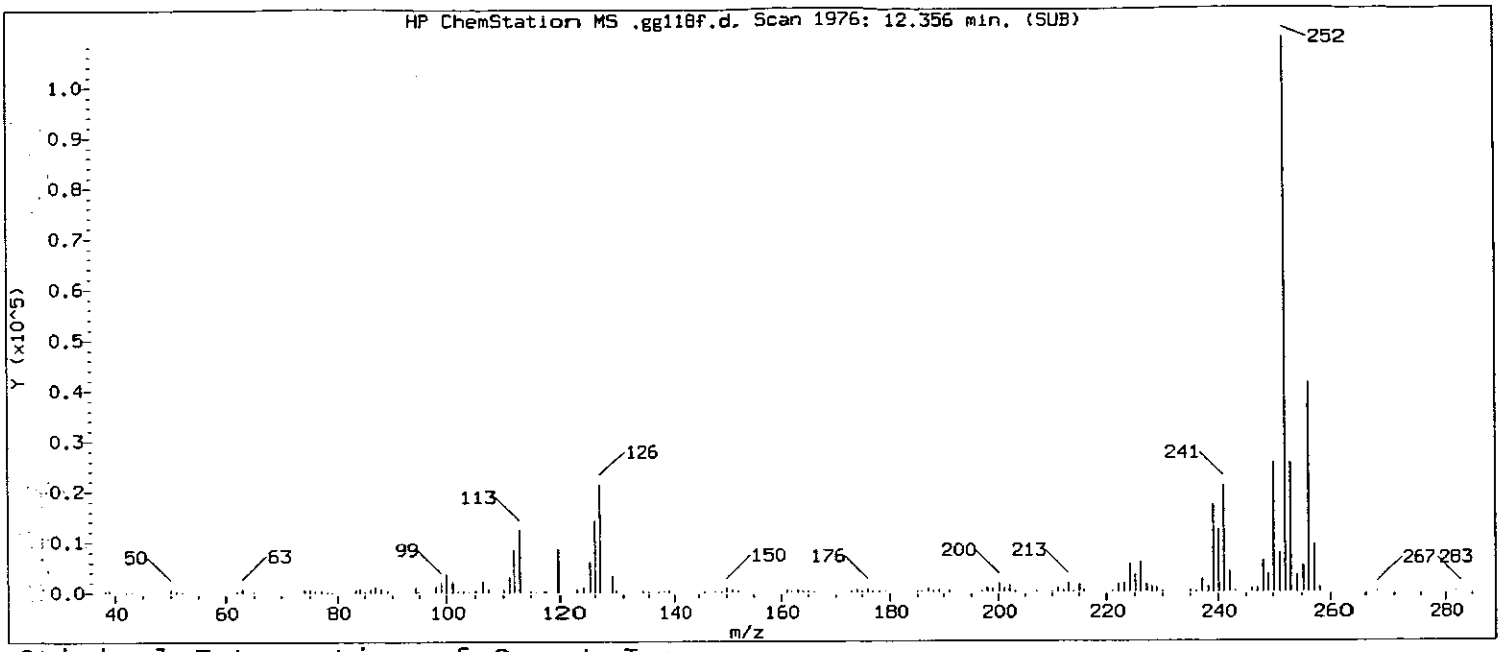
Compound Number	:	171
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1976
Retention Time (minutes)	:	12.356
Quant Ion	:	252
Area (flag)	:	135448 M
Concentration (ng/ul)	:	4.7106
Integration start scan	:	1969 Integration stop scan: 1978
Y at integration start	:	0 Y at integration end: 78

Reason for manual integration (circle one): missed peak improper integrati

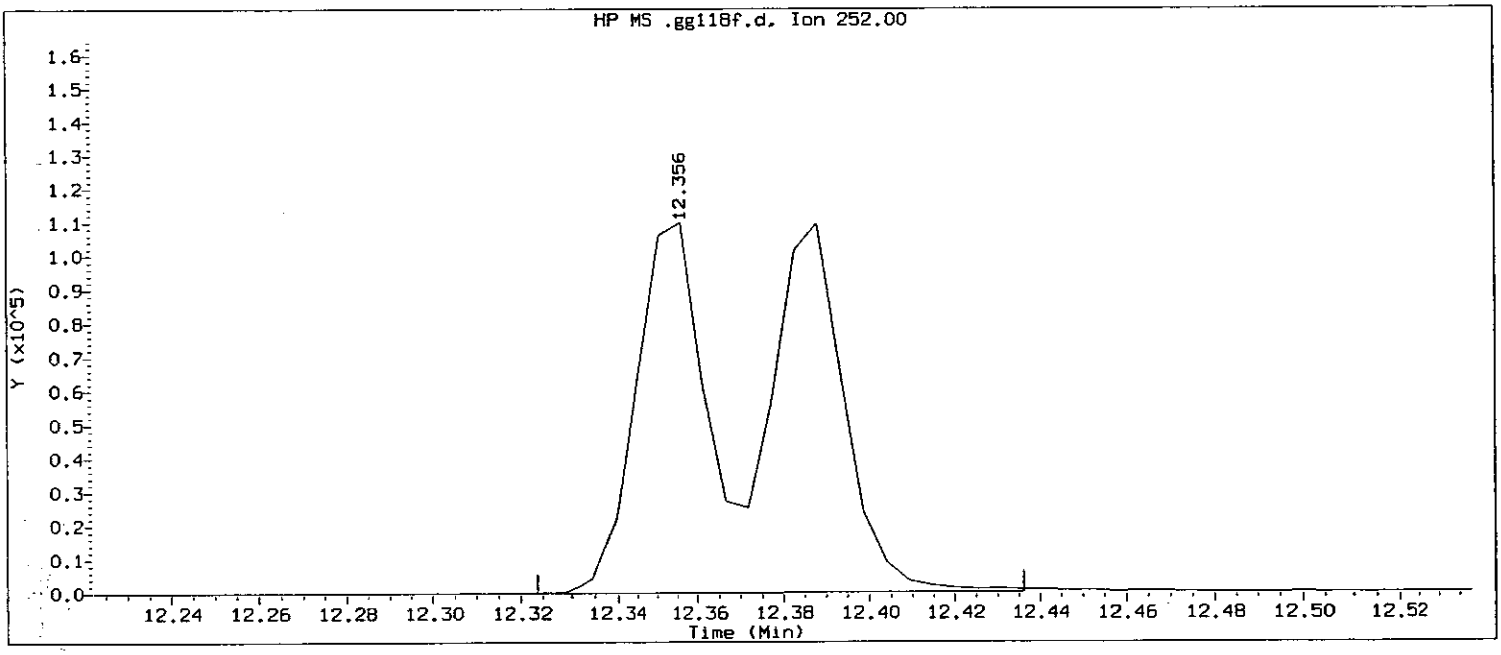
Analyst responsible for change: 1170 7/30/07

GC/MS audit/management approval: 8570 7/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:35
Date, time and analyst ID of latest file update: 30-Jul-2007 22:35 Automation

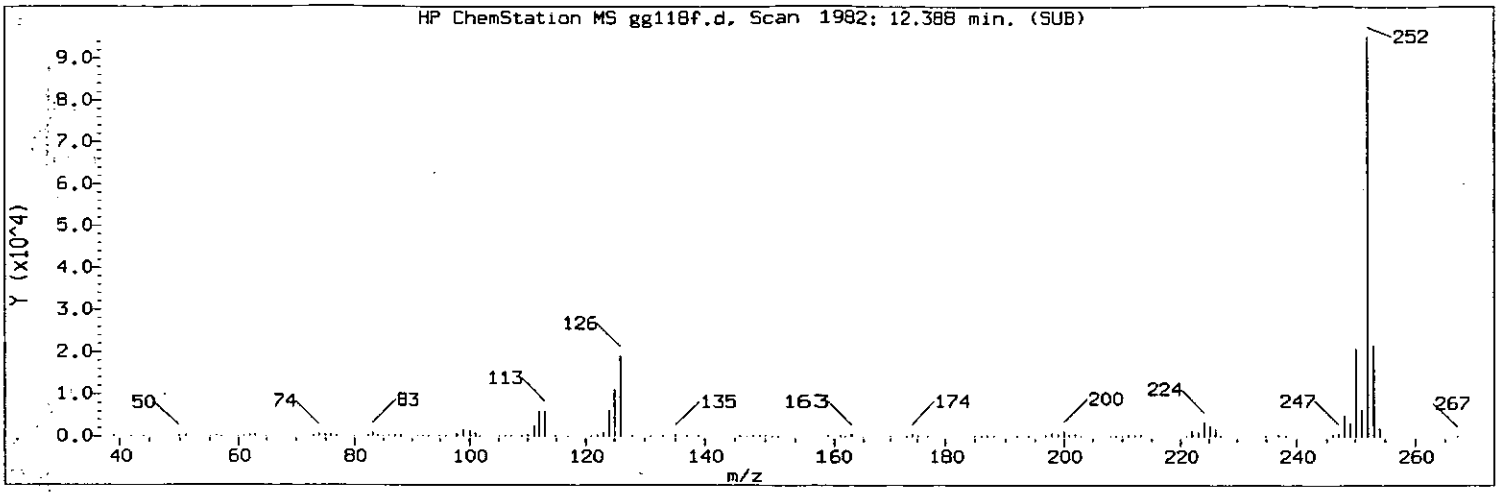
Sample Name: SSTD005 Lab Sample ID: STD2057

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1976
Retention Time (minutes)	:	12.356
Quant Ion	:	252
Area	:	256092
Concentration (ng/ul)	:	7.6547
Integration start scan	:	1969 Integration stop scan: 1990
Y at integration start	:	0 Y at integration end: 183

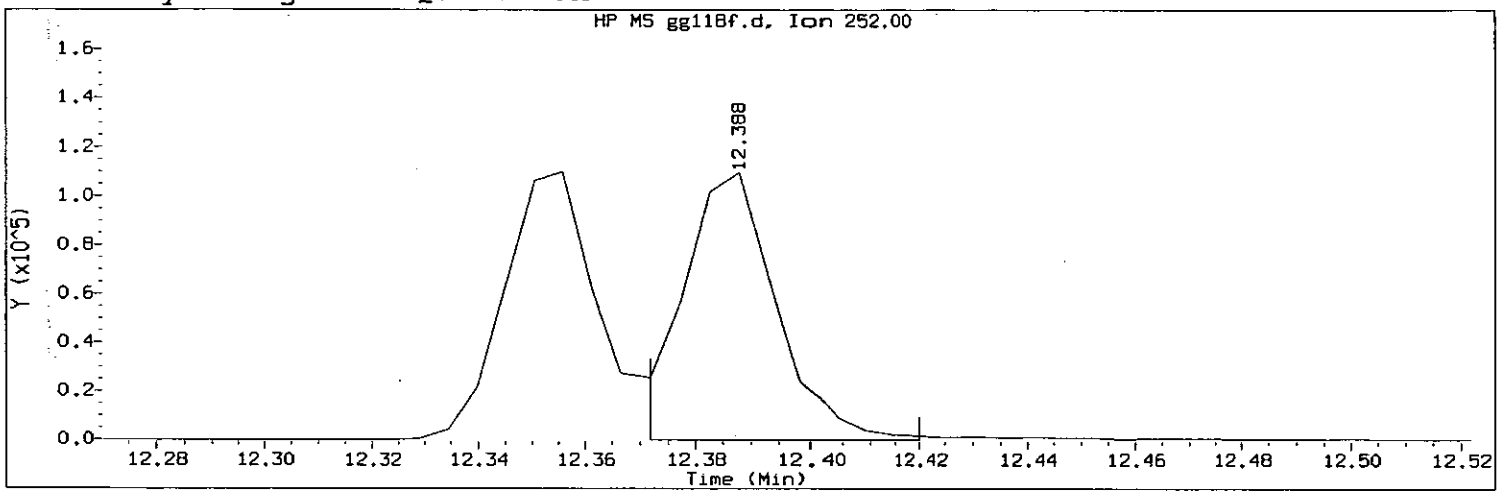
8571

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118f.d, generated on 07/30/2007 at 22:38

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118f.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:18 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:38
Date, time and analyst ID of latest file update: 30-Jul-2007 22:38 gjd01970

Sample Name: SSTD005 Lab Sample ID: STD2057

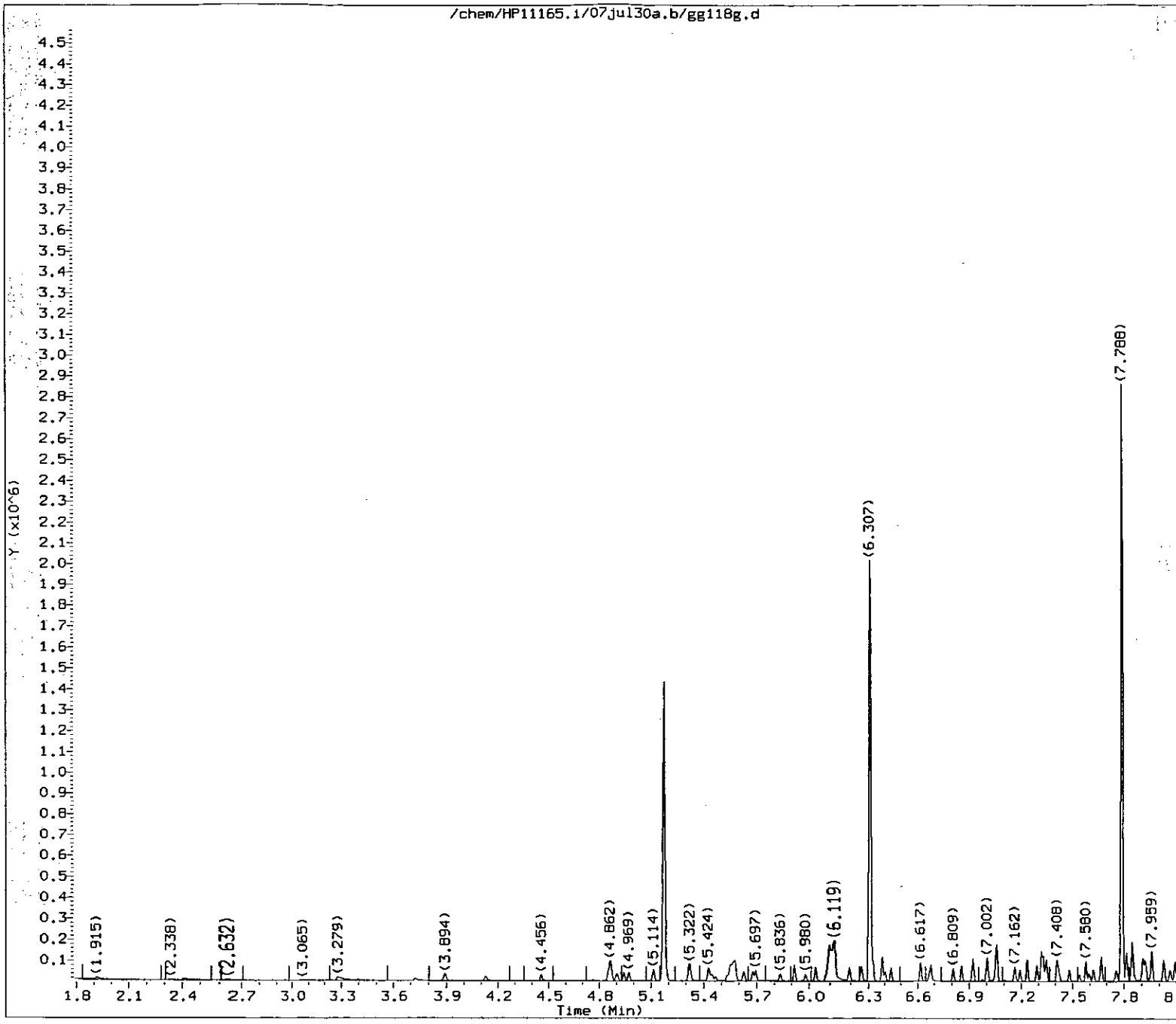
Compound Number : 172
Compound Name : Benzo(k)fluoranthene
Scan Number : 1982
Retention Time (minutes): 12.388
Quant Ion : 252
Area (flag) : 127970 M
Concentration (ng/ul) : 4.3848
Integration start scan : 1978 Integration stop scan: 1987
Y at integration start : 122 Y at integration end: 122

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 7/30/07

0572

GC/MS audit/management approval: [signature] 7/31/07



Quant Report

Target Revision 3.5

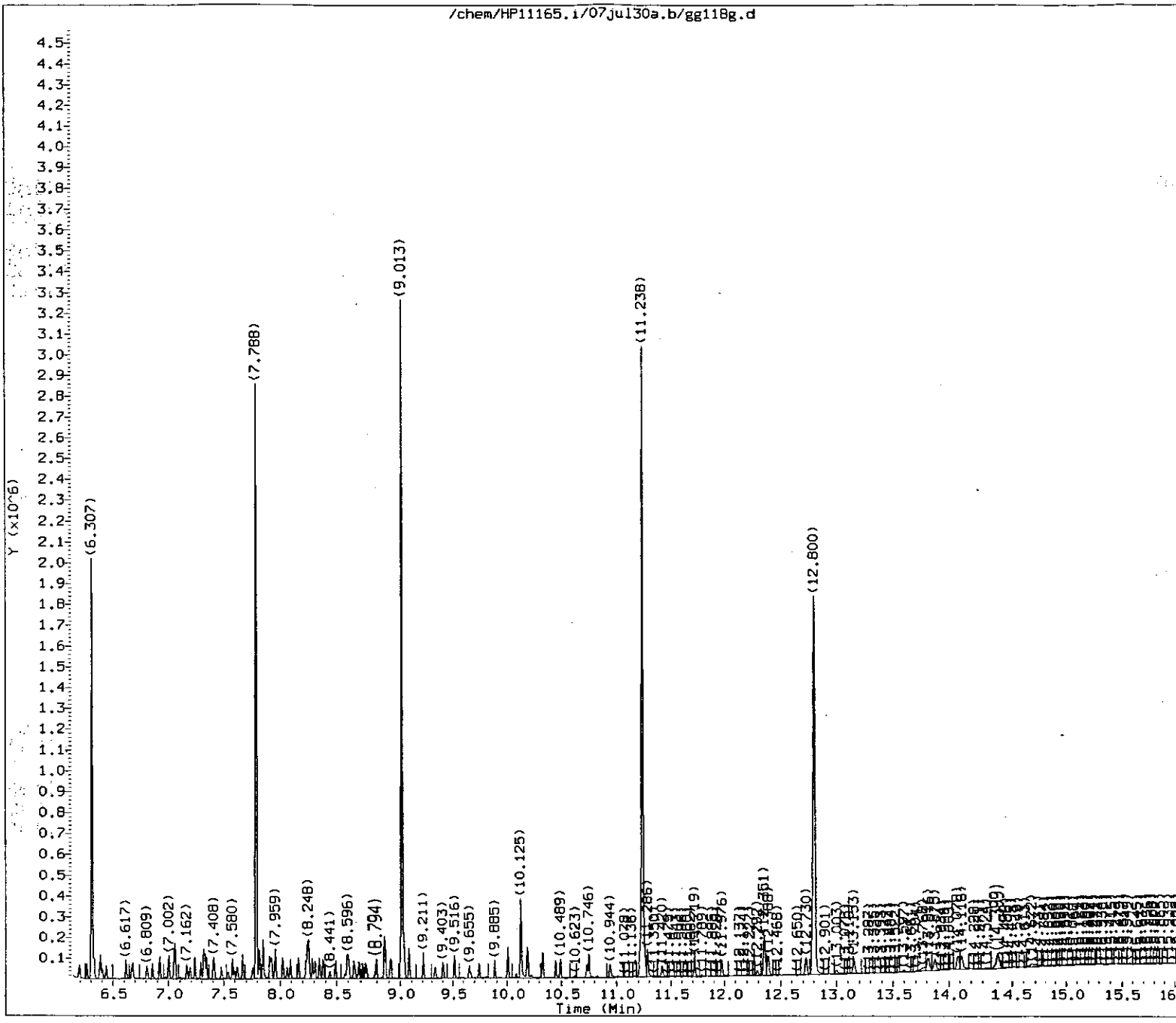
Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

JMG/346
7-31-07

8573



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

JM6/346 8574
7-31-07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.915	88	4724	1.579
2)	N-Nitrosodimethylamine	(1)	2.327	74	4293	0.954
3)	Pyridine	(1)	2.407	79	10785M	1.303
5)	2-Picoline	(1)	3.279	93	12262	1.460
6)	N-Nitrosomethylethylamine	(1)	3.402	88	6819	1.706
7)	Methyl methanesulfonate	(1)	3.728	80	5187	1.495
10)	N-Nitrosodiethylamine	(1)	4.130	102	6130	1.493
11)	Ethyl methanesulfonate	(1)	4.456	109	6126	1.557
13)	Aniline	(1)	4.862	93	19851	1.510
16)	Phenol	(1)	4.868	94	17510	1.525
17)	Pentachloroethane	(1)	4.905	167	3460	1.520
18)	bis(2-Chloroethyl)ether	(1)	4.943	93	12947	1.591
19)	2-Chlorophenol	(1)	4.975	128	9963	1.425
20)	1,3-Dichlorobenzene	(1)	5.114	146	10530	1.505
21)	1,4-Dichlorobenzene-d4	(1)	5.173	152	169615	40.000
22)	1,4-Dichlorobenzene	(1)	5.189	146	10886	1.518
24)	Benzyl alcohol	(1)	5.317	108	9326	1.678
25)	1,2-Dichlorobenzene	(1)	5.322	146	10720	1.572
26)	2-Methylphenol	(1)	5.424	108	11846	1.510
27)	2,2'-oxybis(1-Chloropropane)	(1)	5.440	45	13829	1.545
28)	bis(2-Chloroisopropyl)ether	(1)	5.440	45	13829	1.545
29)	N-Nitrosopyrrolidine	(1)	5.531	100	7061	1.504
30)	Acetophenone	(1)	5.547	105	18558	1.640
31)	N-Nitroso-di-n-propylamine	(1)	5.558	70	9333	1.669
32)	N-Nitrosomorpholine	(1)	5.574	56	7243	1.777
33)	4-Methylphenol	(1)	5.568	108	12970	1.475
34)	o-Toluidine	(1)	5.579	106	20837	1.547
37)	Hexachloroethane	(1)	5.627	117	4167	1.482
39)	Nitrobenzene	(2)	5.697	77	13700	1.693
40)	N-Nitrosopiperidine	(2)	5.836	114	6758	1.655
41)	Isophorone	(2)	5.916	82	24988	1.552
42)	2-Nitrophenol	(2)	5.980	139	4683	1.326
44)	2,4-Dimethylphenol	(2)	6.034	107	11832	1.472
45)	O,O,O-triethylphosphorothioate	(2)	6.098	198	5721	1.572
46)	bis(2-Chloroethoxy)methane	(2)	6.119	93	15894	1.647
47)	Benzoic acid	(2)	6.114	105	83310	14.440
49)	2,4-Dichlorophenol	(2)	6.194	162	8617	1.433
50)	1,2,4-Trichlorobenzene	(2)	6.264	180	9398	1.570
52)	Naphthalene-d8	(2)	6.307	136	749630	40.000
53)	Naphthalene	(2)	6.328	128	33797	1.606
55)	4-Chloroaniline	(2)	6.381	127	14533	1.645
56)	2,6-Dichlorophenol	(2)	6.387	162	9559	1.673
57)	Hexachloropropene	(2)	6.403	213	4841	1.381

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59) Hexachlorobutadiene	(2)	6.440	225	5275	1.687
62) Caprolactam	(2)	6.670	113	4950	1.610
63) N-Nitrosodi-n-butylamine	(2)	6.681	84	12641	1.901
67) 4-Chloro-3-methylphenol	(2)	6.809	107	11194	1.522
68) Safrole	(2)	6.857	162	8291	1.488
69) 2-Methylnaphthalene	(2)	6.922	142	22029	1.587
70) 1-Methylnaphthalene	(2)	7.002	142	22413	1.633
71) Hexachlorocyclopentadiene	(3)	7.055	237	13829	4.281
72) 1,2,4,5-Tetrachlorobenzene	(3)	7.061	216	9700	1.635
73) cis-Isosafrole	(3)	7.104	162	947	0.174
74) 2,4,6-Trichlorophenol	(3)	7.162	196	6457	1.542
76) 2,4,5-Trichlorophenol	(3)	7.194	196	6613	1.383
78) trans-Isosafrole	(3)	7.291	162	10359	1.451
79) Isosafrole	(3)	7.291	162	10359	1.631
80) Biphenyl	(3)	7.317	154	31521	1.742
81) Diphenyl	(3)	7.317	154	31521	1.742
82) 1,1'-Biphenyl	(3)	7.317	154	31521	1.742
83) 2-Chloronaphthalene	(3)	7.328	162	29559M	1.796
87) Diphenyl ether	(3)	7.408	170	15684	1.640
88) 2-Nitroaniline	(3)	7.419	138	6935	1.398
89) 1,4-Naphthoquinone	(3)	7.478	158	6462	1.242
90) 1,4-Dinitrobenzene	(3)	7.542	168	2999	1.213
91) Dimethylphthalate	(3)	7.580	163	26477	1.652
92) 1,3-Dinitrobenzene	(3)	7.596	168	3797	1.319
93) 2,6-Dinitrotoluene	(3)	7.622	165	5566	1.485
94) Acenaphthylene	(3)	7.670	152	35377	1.583
96) 3-Nitroaniline	(3)	7.756	138	6606	1.480
97) Acenaphthene-d10	(3)	7.788	164	492195	40.000
98) Acenaphthene	(3)	7.815	153	24678	1.728
99) 2,4-Dinitrophenol	(3)	7.847	184	21839	15.720
100) Pentachlorobenzene	(3)	7.922	250	10413	1.787
102) 4-Nitrophenol	(3)	7.906	109	13504	5.150
103) Dibenzofuran	(3)	7.959	168	34581	1.724
104) 2,4-Dinitrotoluene	(3)	7.954	165	7020	1.425
105) 1-Naphthylamine	(3)	8.023	143	26141	1.730
106) 2,3,4,6-Tetrachlorophenol	(3)	8.061	232	5821	1.561
107) 2-Naphthylamine	(3)	8.093	143	26221	1.681
108) Diethylphthalate	(3)	8.163	149	25277	1.662
109) Thionazin	(3)	8.227	107	5995	1.987
110) Fluorene	(3)	8.243	166	27811	1.709
111) 4-Chlorophenyl-phenylether	(3)	8.248	204	13675	1.773
112) 5-Nitro-o-toluidine	(3)	8.253	152	8046	1.618
113) 4-Nitroaniline	(3)	8.259	138	7828	1.639

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.286	198	10709	7.122
115)	1-Nitronaphthalene	(4)	8.307	173	5097	1.500
116)	N-Nitrosodiphenylamine	(4)	8.344	169	20567	1.656
117)	1,2-Diphenylhydrazine	(4)	8.376	77	30321	1.641
119)	Tetraethyldithiopyrophosphate	(4)	8.489	97	4873	1.731
120)	1,3,5-Trinitrobenzene	(4)	8.574	213	1614	4.008
121)	Diallate (peak 1)	(4)	8.590	86	10721	1.231
122)	Phorate	(4)	8.596	75	17178	5.679
123)	Phenacetin	(4)	8.606	108	14309	1.499
124)	4-Bromophenyl-phenylether	(4)	8.649	248	7720	1.680
125)	Diallate (peak 2)	(4)	8.660	86	3442	0.400
126)	Hexachlorobenzene	(4)	8.692	284	8974	1.725
127)	Dimethoate	(4)	8.729	87	12147	1.798
128)	Diallate TRANS/CIS	(4)	23.156	86	14163	1.632
130)	Pentachlorophenol	(4)	8.858	266	14069	4.444
131)	Pentachloronitrobenzene	(4)	8.863	237	3328	1.703
132)	4-Aminobiphenyl	(4)	8.863	169	26719	1.720
133)	Pronamide	(4)	8.922	173	10827	1.554
134)	Phenanthrene-d10	(4)	9.013	188	929936	40.000
135)	Dinoseb	(4)	9.013	211	3110	5.128
136)	Phenanthrene	(4)	9.029	178	44219	1.721
137)	Anthracene	(4)	9.072	178	42526	1.620
139)	Carbazole	(4)	9.211	167	39167	1.601
140)	Methyl parathion	(4)	9.329	109	7737	1.476
141)	Di-n-butylphthalate	(4)	9.516	149	46605	1.728
142)	Parathion	(4)	9.655	109	4912	1.353
143)	4-Nitroquinoline-1-oxide	(4)	9.671	190	1124	3.883
144)	Methapyrilene	(4)	9.740	97	12602M	0.000
145)	Isodrin	(4)	9.885	193	4330	1.675
146)	Fluoranthene	(4)	10.008	202	44535	1.566
151)	Benzidine	(5)	10.125	184	136749	8.546
153)	Pyrene	(5)	10.190	202	46570	1.557
157)	p-Dimethylaminoazobenzene	(5)	10.452	225	8852	1.411
158)	Chlorobenzilate	(5)	10.489	139	13306	1.571
159)	3,3'-Dimethylbenzidine	(5)	10.730	212	18414	1.334
160)	Butylbenzylphthalate	(5)	10.751	149	19094	1.529
161)	2-Acetylaminofluorene	(5)	10.944	181	14436	1.309
163)	3,3'-Dichlorobenzidine	(5)	11.211	252	15173	1.470
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.222	231	8962	1.728
165)	Benzo(a)anthracene	(5)	11.227	228	46506	1.657
166)	Chrysene-d12	(5)	11.238	240	946777	40.000
167)	Chrysene	(5)	11.259	228	46285	1.727
168)	bis(2-Ethylhexyl)phthalate	(5)	11.286	149	29137	1.744

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

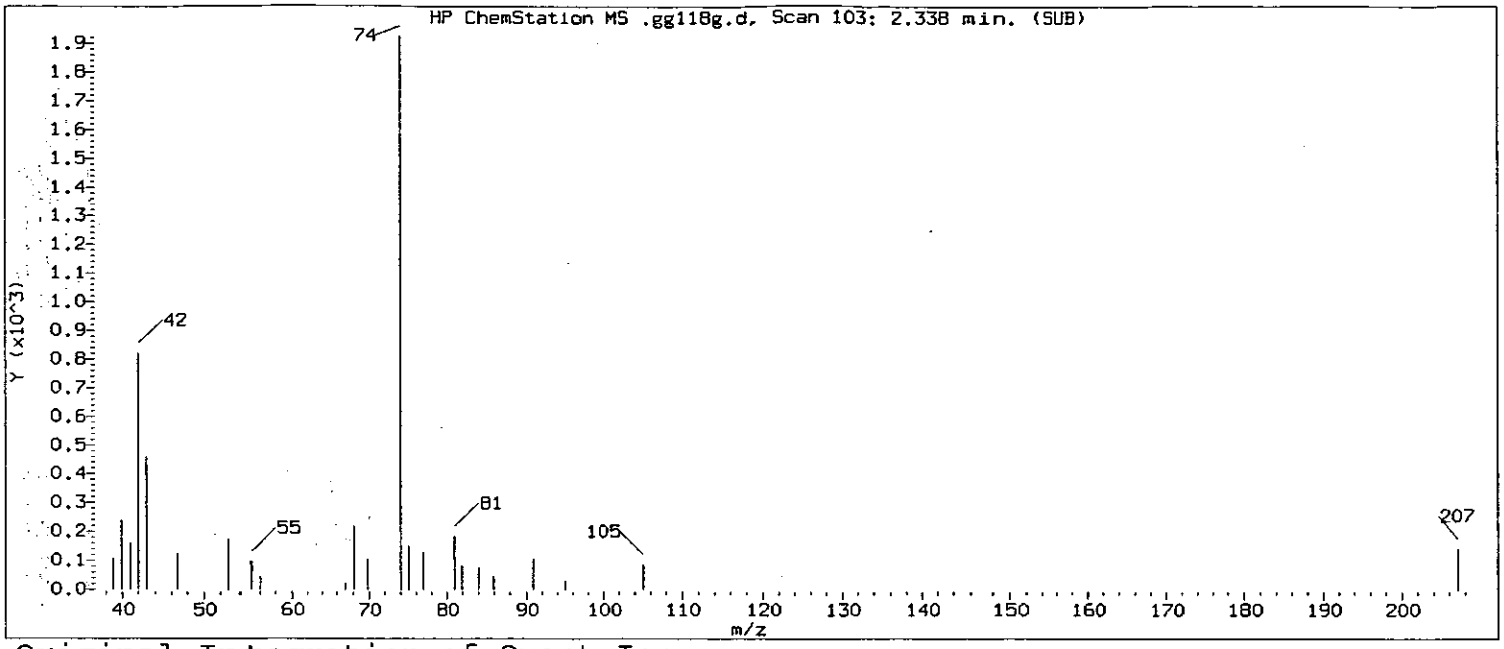
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

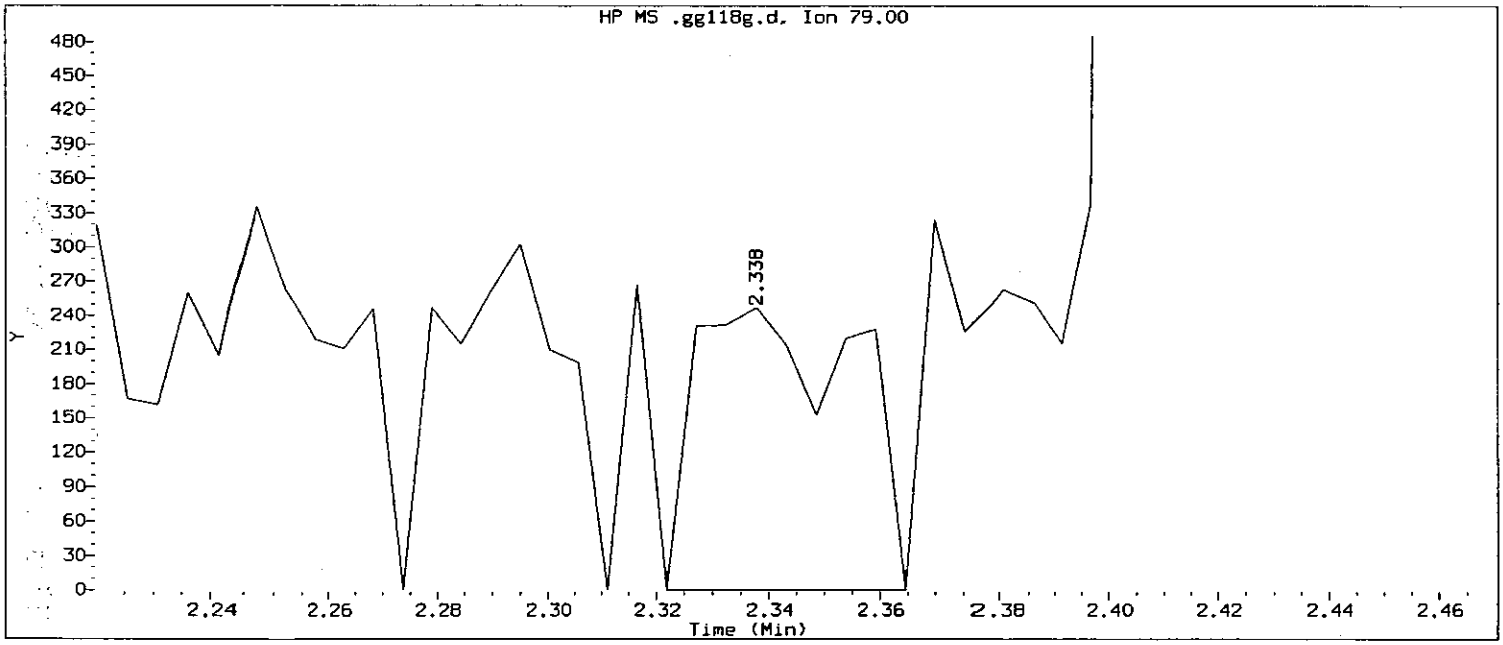
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.719	242	29031	1.504
169)	Di-n-octylphthalate	(6)	11.976	149	38414	1.419
189)	Dibenz(a,h)acridine	(6)	13.816	279	30155	1.468
190)	Dibenz(a,j)acridine	(6)	13.875	279	27879	1.423
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.351	256	20551	1.517
171)	Benzo(b)fluoranthene	(6)	12.356	252	42879M	1.560
194)	Ronnel	(4)	9.409	285	9951	1.685
172)	Benzo(k)fluoranthene	(6)	12.388	252	42038M	1.507
173)	Benzo(a)pyrene	(6)	12.730	252	38083	1.526
174)	Perylene-d12	(6)	12.800	264	757675	40.000
175)	3-Methylcholanthrene	(6)	13.153	268	22389	1.572
176)	Indeno(1,2,3-cd)pyrene	(6)	14.083	276	43627	1.583
177)	Dibenz(a,h)anthracene	(6)	14.116	278	33554	1.478
178)	Benzo(g,h,i)perylene	(6)	14.399	276	37070	1.599
84)	1-Chloronaphthalene	(3)	7.344	162	20910M	1.579
9)	2-Fluorophenol	(1)	3.894	112	10073	1.438
14)	Phenol-d5	(1)	4.852	99	14838	1.505
15)	Phenol-d6	(1)	4.852	99	14838	1.505
38)	Nitrobenzene-d5	(2)	5.681	82	12542	1.560
77)	2-Fluorobiphenyl	(3)	7.237	172	25296	1.666
118)	2,4,6-Tribromophenol	(3)	8.441	330	3583	1.635
155)	Terphenyl-d14	(5)	10.329	244	30943	1.593

M = Compound was manually integrated. A = User selected an alternate

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

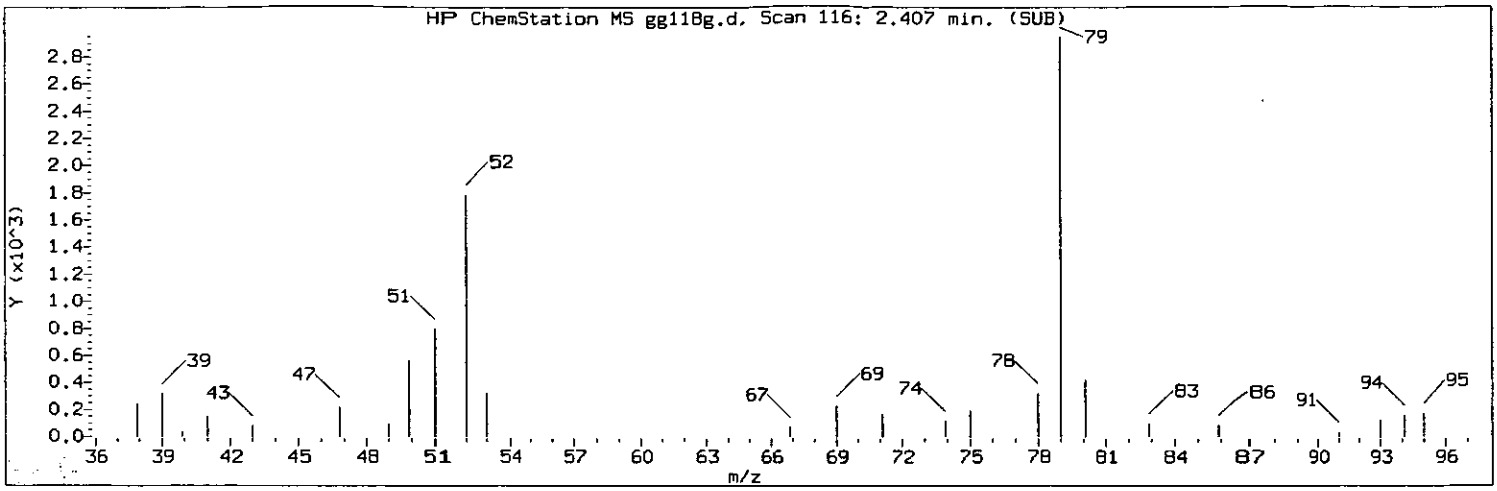
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 3
Compound Name : Pyridine
Scan Number : 103
Retention Time (minutes): 2.338
Quant Ion : 79
Area : 489
Concentration (ng/ul) : 0.0591
Integration start scan : 99 Integration stop scan: 107
Y at integration start : 0 Y at integration end: 0

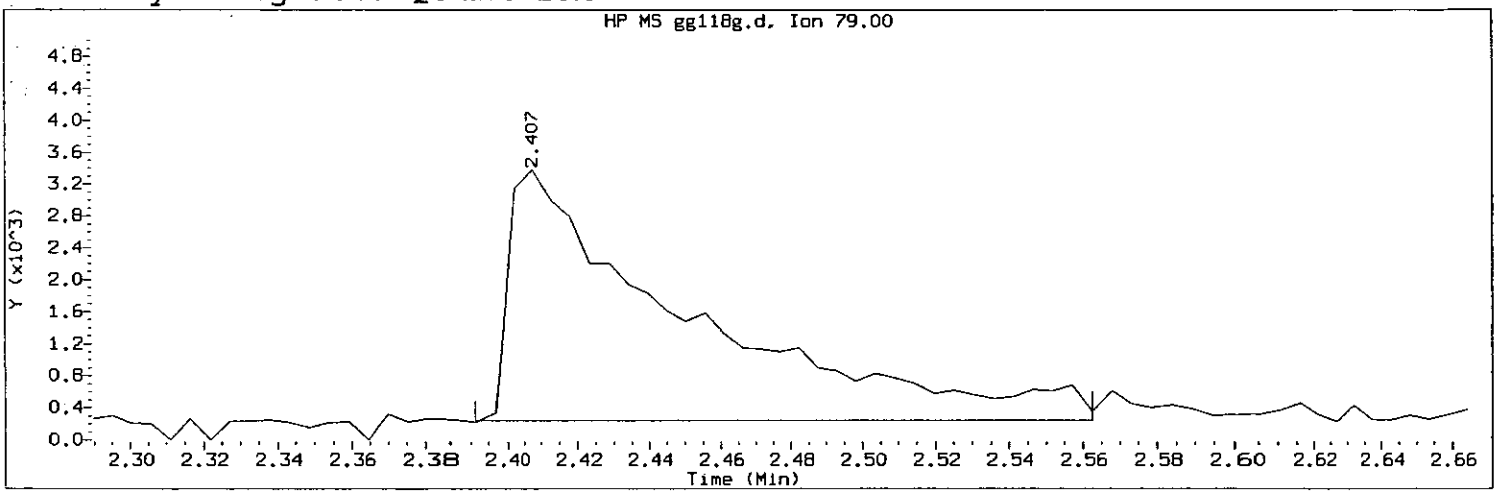
JM6/8/46
7-31-07 0579

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	:	3
Compound Name	:	Pyridine
Scan Number	:	116
Retention Time (minutes)	:	2.407
Quant Ion	:	79
Area (flag)	:	10785 M
Concentration (ng/ul)	:	1.3035
Integration start scan	:	112 Integration stop scan: 144
Y at integration start	:	237 Y at integration end: 237

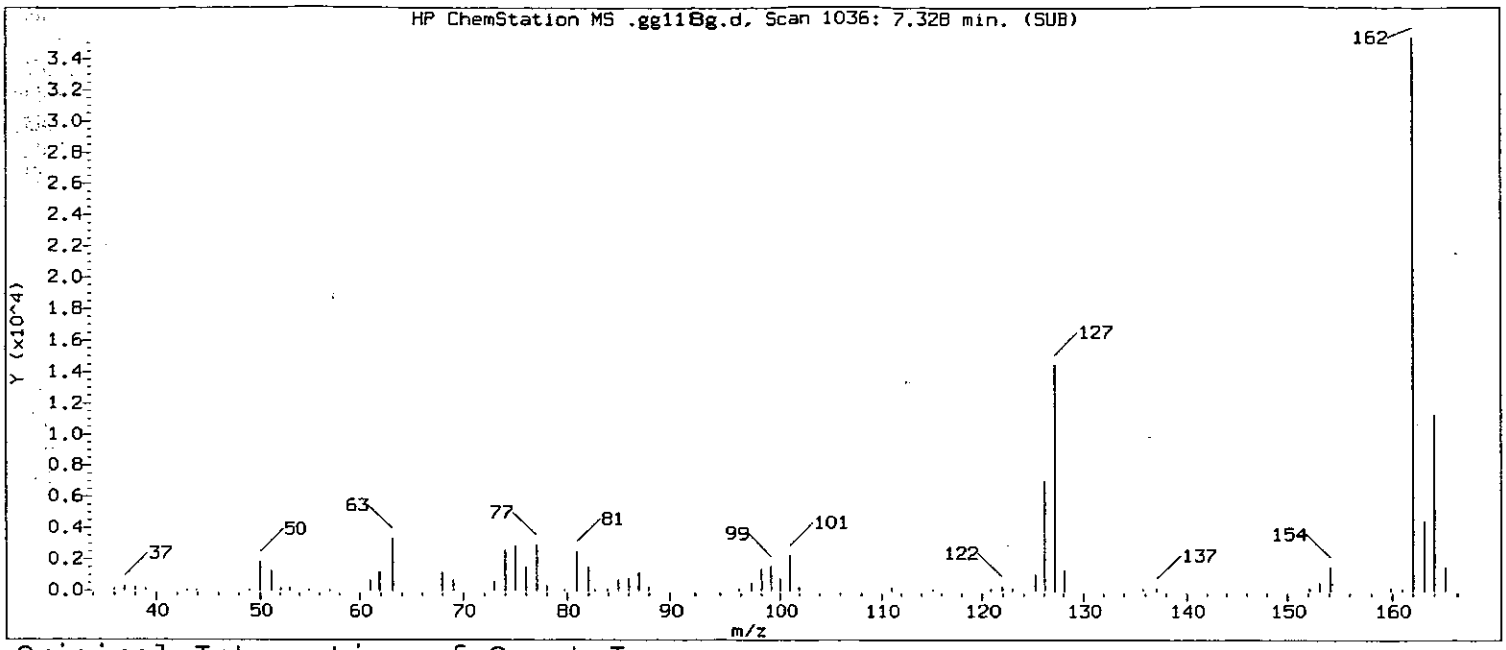
Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: [signature] 7-31-07

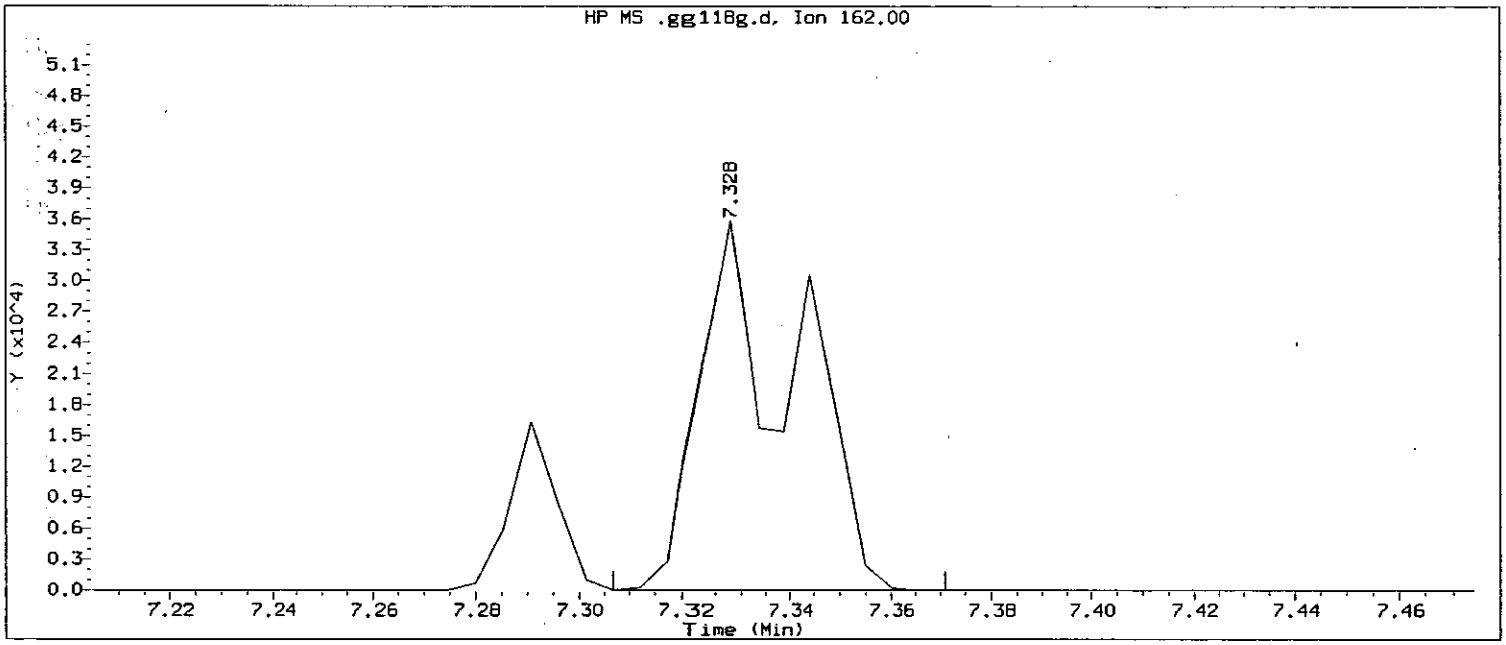
0500

GC/MS audit/management approval: jmg 07/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

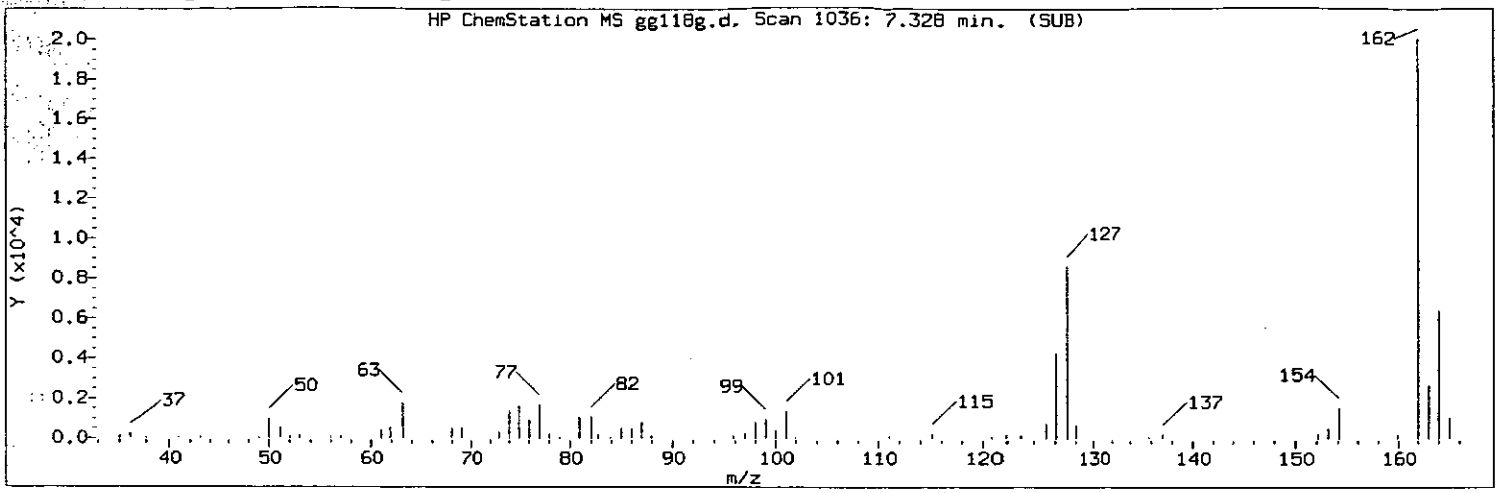
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	: 83
Compound Name	: 2-Chloronaphthalene
Scan Number	: 1036
Retention Time (minutes)	: 7.328
Quant Ion	: 162
Area	: 45641
Concentration (ng/ul)	: 2.7730
Integration start scan	: 1031 Integration stop scan: 1043
Y at integration start	: 0 Y at integration end: 0

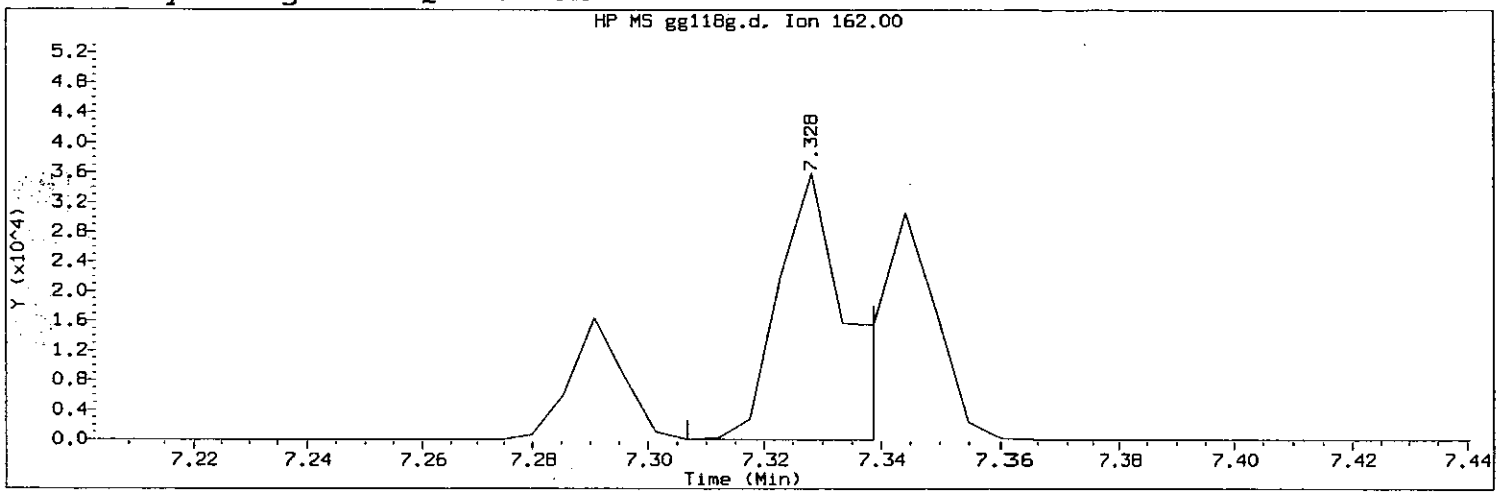
JMG 8/1/07
7-31-8581

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 1036
Retention Time (minutes): 7.328
Quant Ion : 162
Area (flag) : 29559 M
Concentration (ng/ul) : 1.7959
Integration start scan : 1031 Integration stop scan: 1037
Y at integration start : 0 Y at integration end: 0

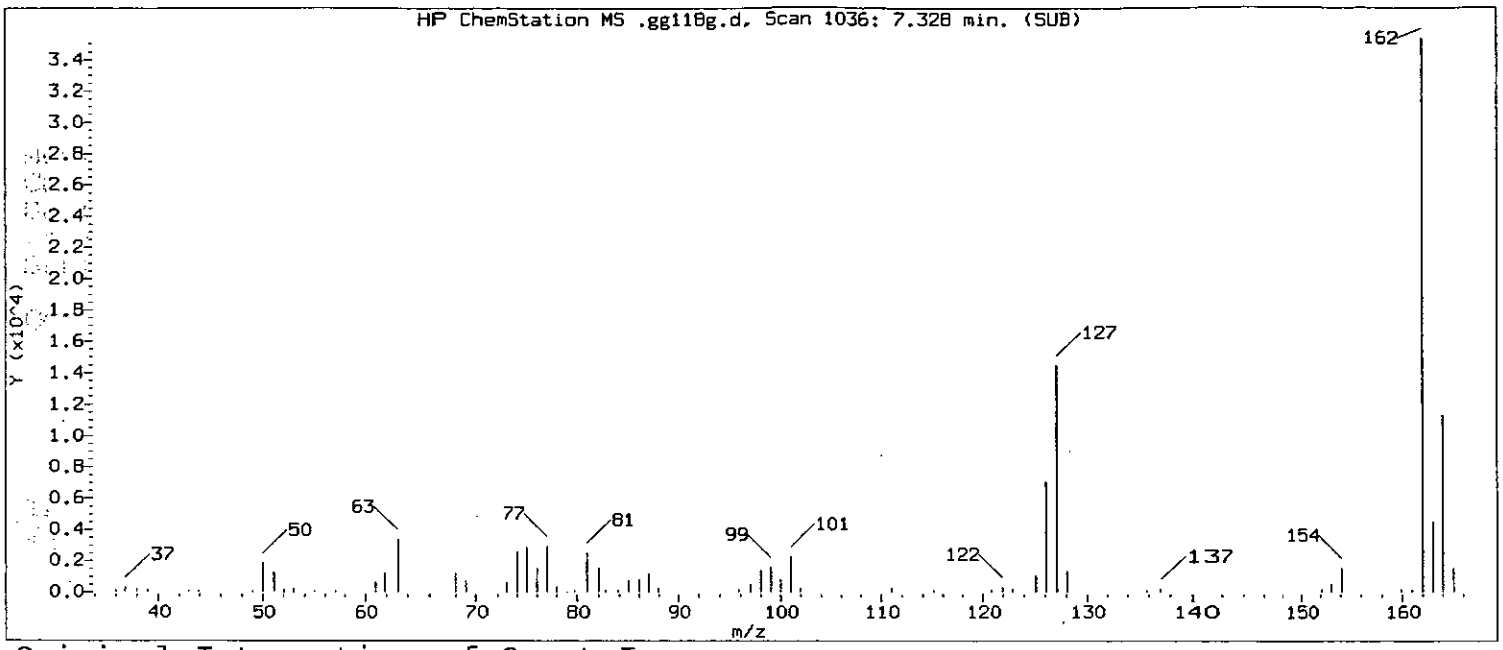
Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: 7-31-07

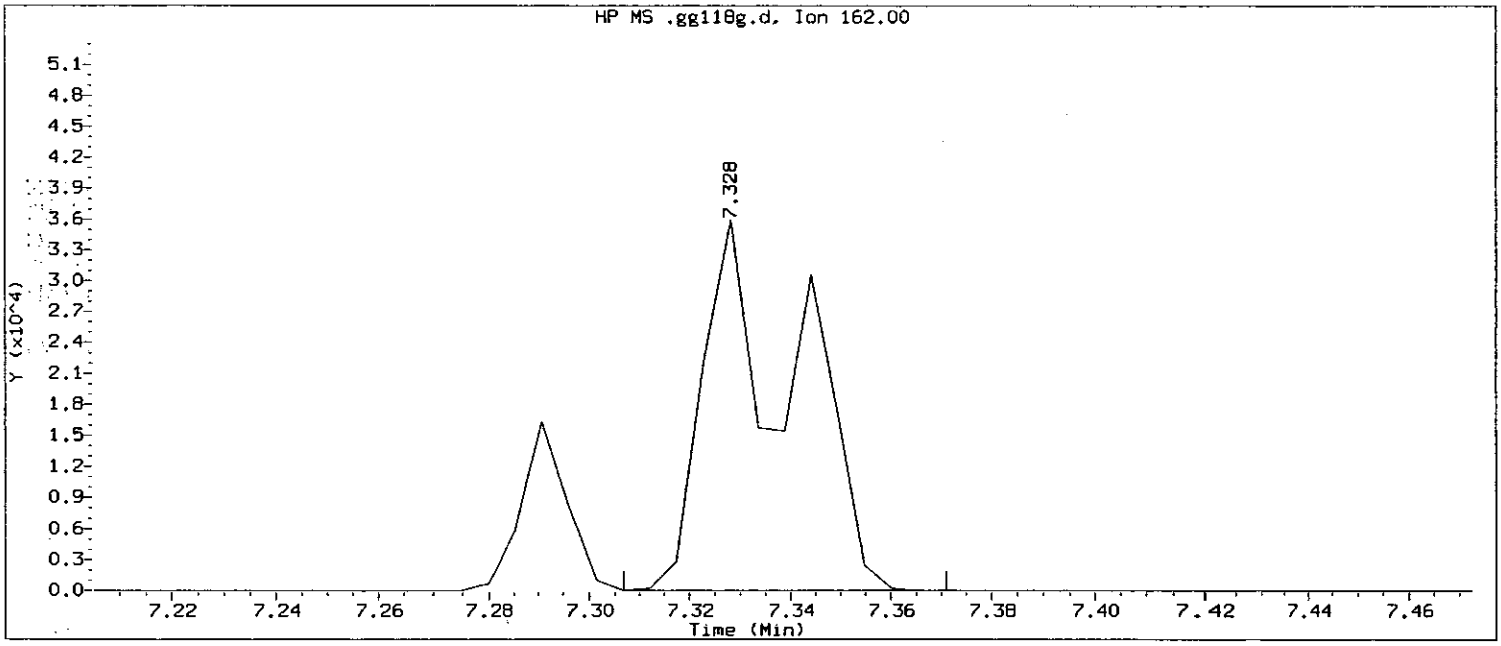
0582

GC/MS audit/management approval: 7/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

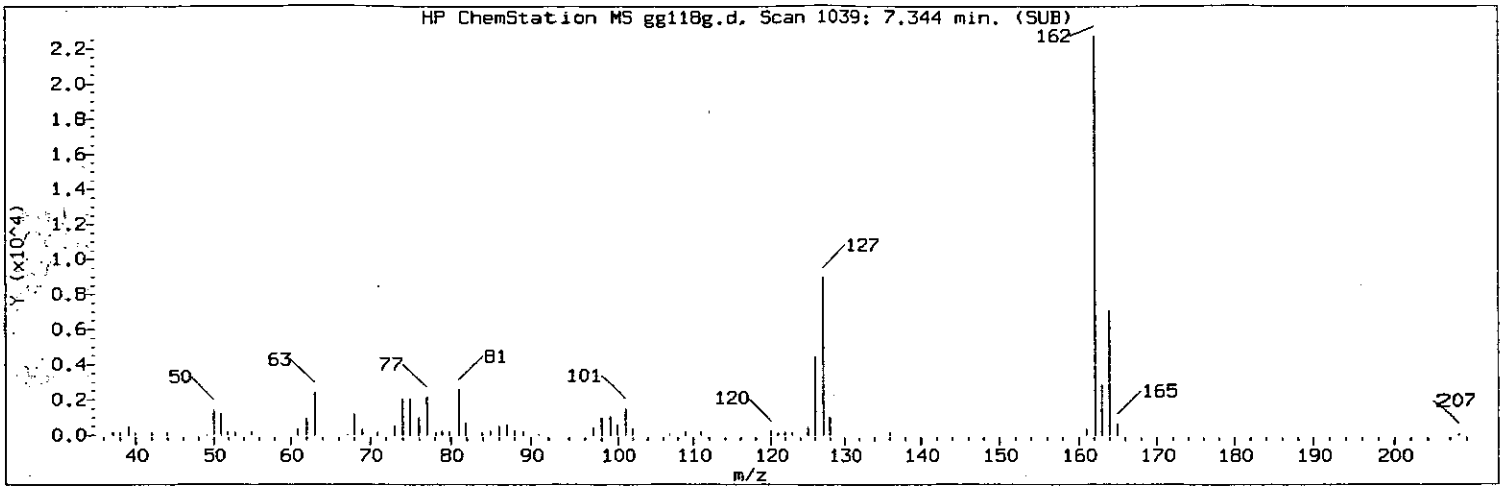
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	: 84
Compound Name	: 1-Chloronaphthalene
Scan Number	: 1036
Retention Time (minutes)	: 7.328
Quant Ion	: 162
Area	: 45641
Concentration (ng/ul)	: 3.4455
Integration start scan	: 1031 Integration stop scan: 1043
Y at integration start	: 0 Y at integration end: 0

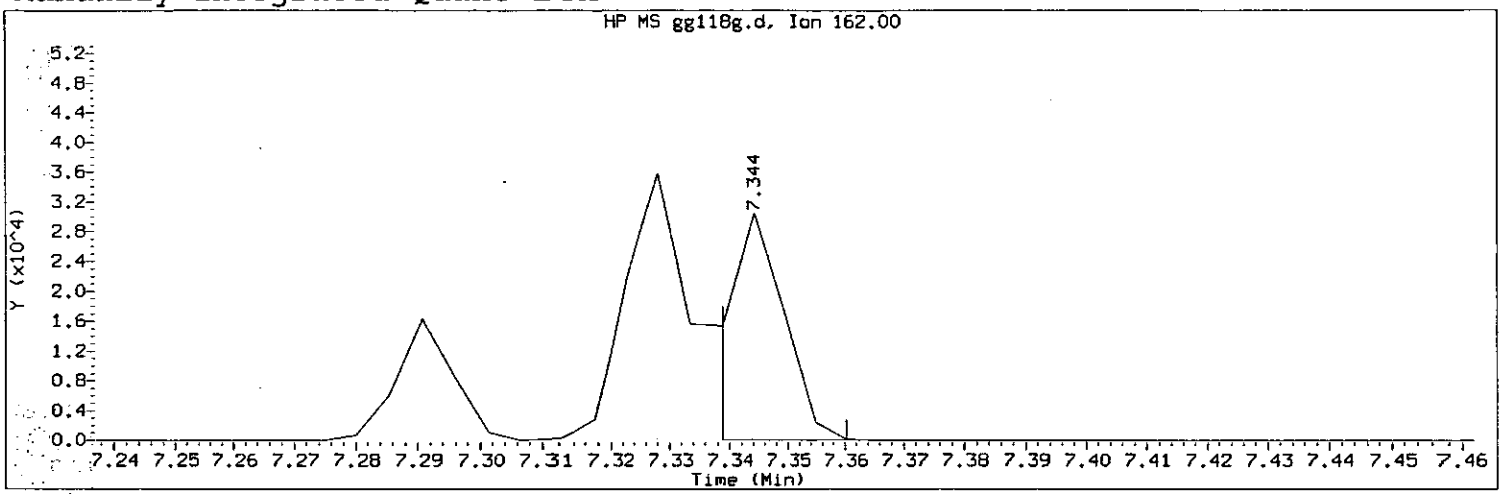
JMG 8546
7-31-07

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	:	84
Compound Name	:	1-Chloronaphthalene
Scan Number	:	1039
Retention Time (minutes)	:	7.344
Quant Ion	:	162
Area (flag)	:	20910 M
Concentration (ng/ul)	:	1.5786
Integration start scan	:	1037 Integration stop scan: 1041
Y at integration start	:	74 Y at integration end: 74

Reason for manual integration (circle one): missed peak improper integrati

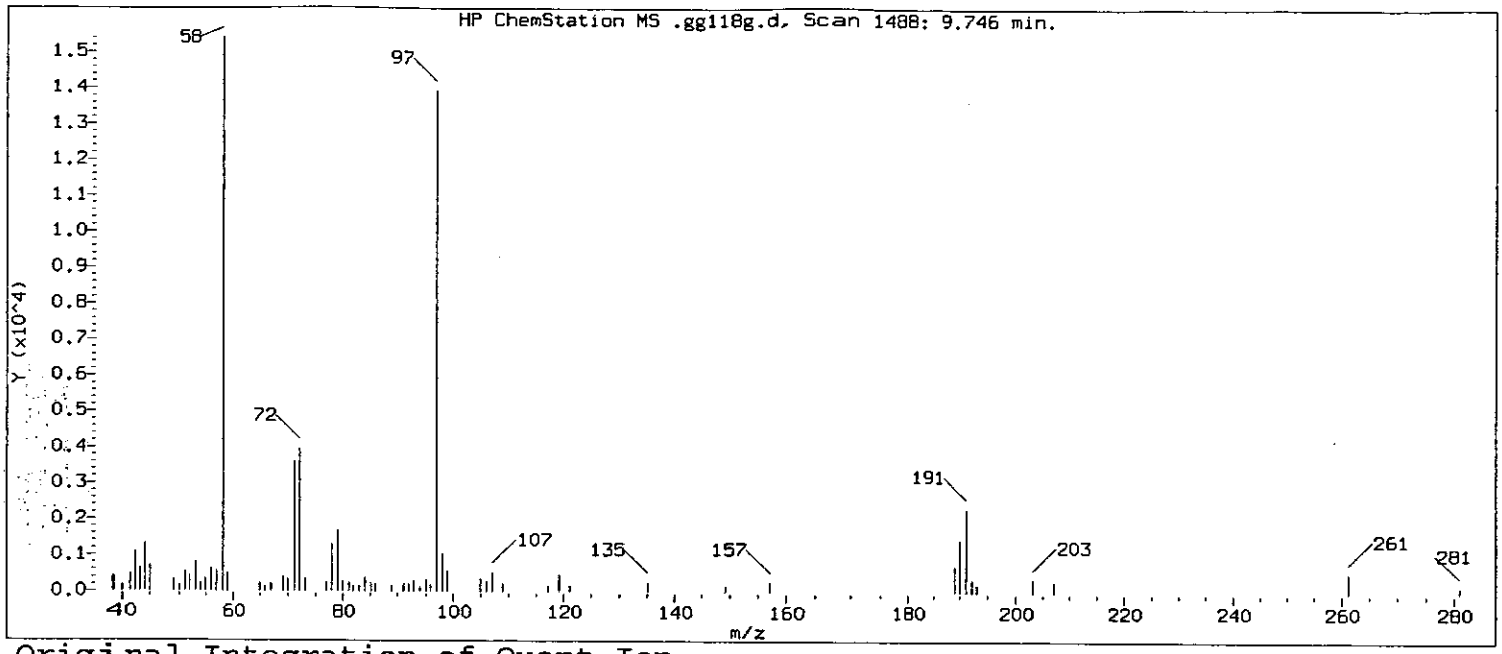
Analyst responsible for change: 7-31-07

0584

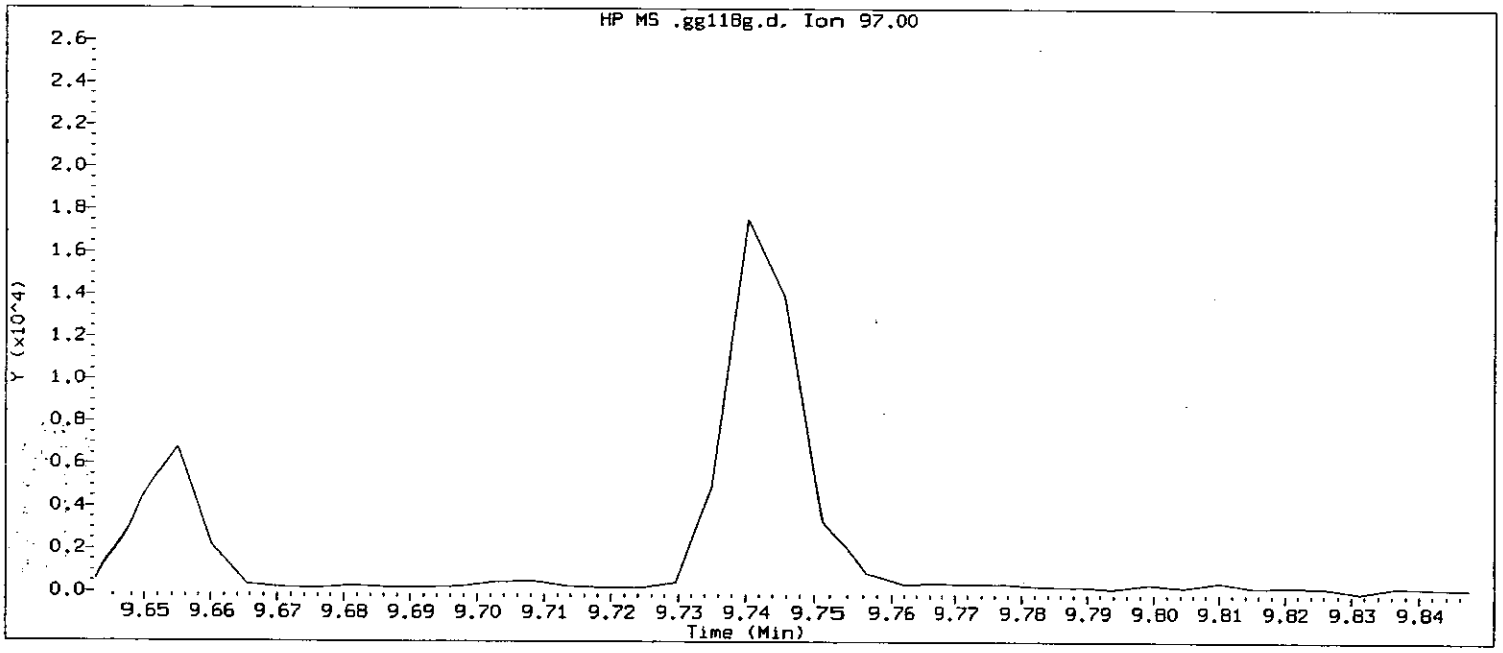
GC/MS audit/management approval: 07/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

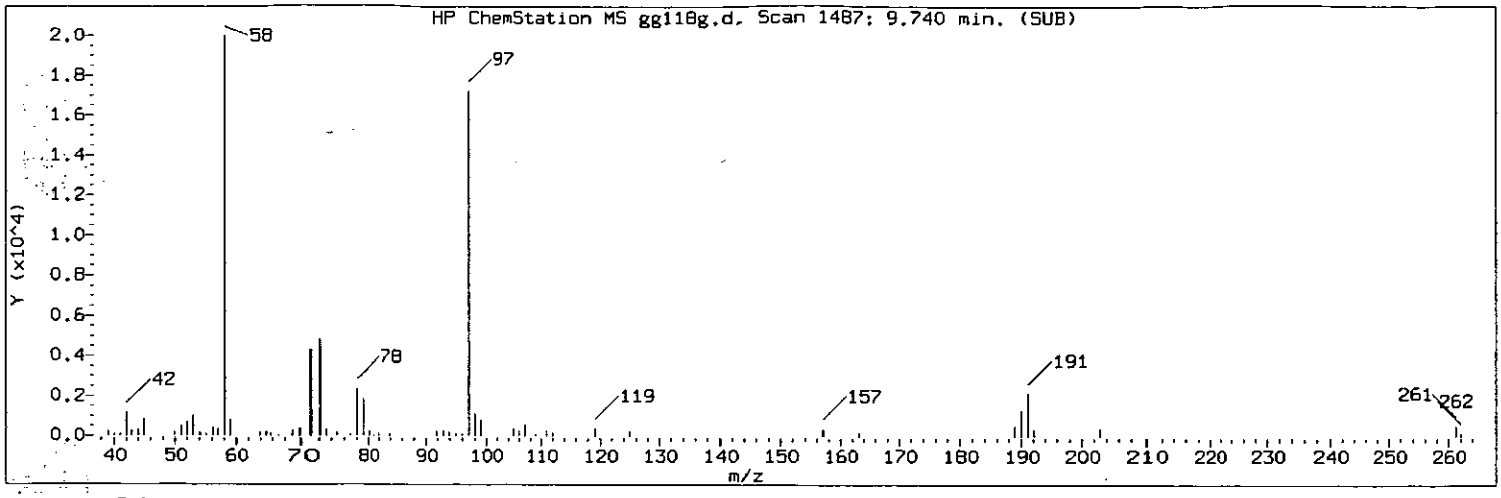
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 144
Compound Name : Methapyrilene
Expected RT (minutes) : 9.746
Quant Ion : 97

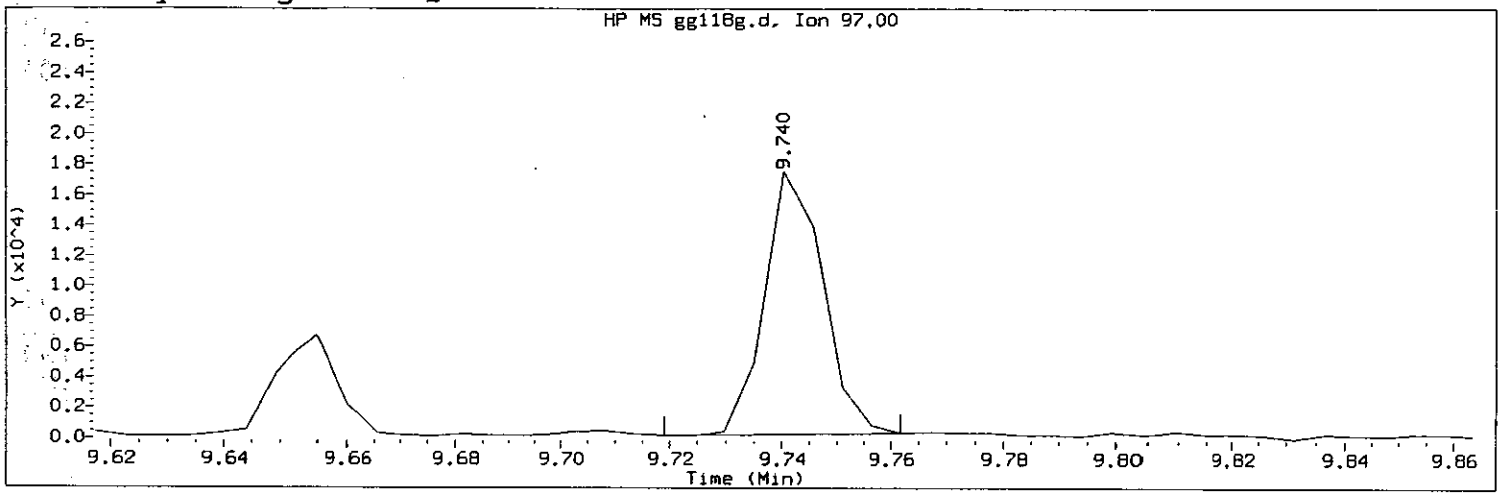
JM6/346
7-31-07 8885

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number : 144
Compound Name : Methapyrilene
Scan Number : 1487
Retention Time (minutes): 9.740
Quant Ion : 97
Area (flag) : 12602 M
Concentration (ng/ul) : 0.0000
Integration start scan : 1482 Integration stop scan: 1490
Y at integration start : 215 Y at integration end: 395

Reason for manual integration (circle one): missed peak improper integrati

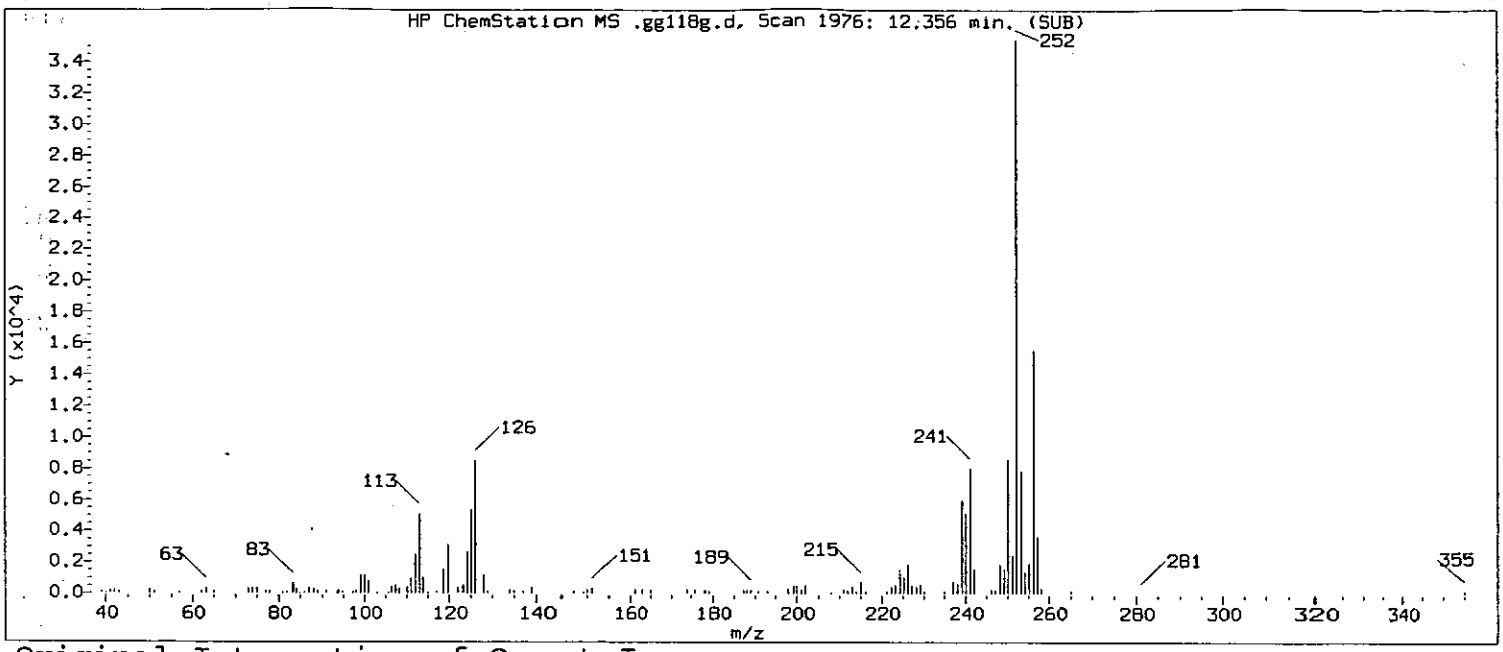
Analyst responsible for change: 7-31-07

0586

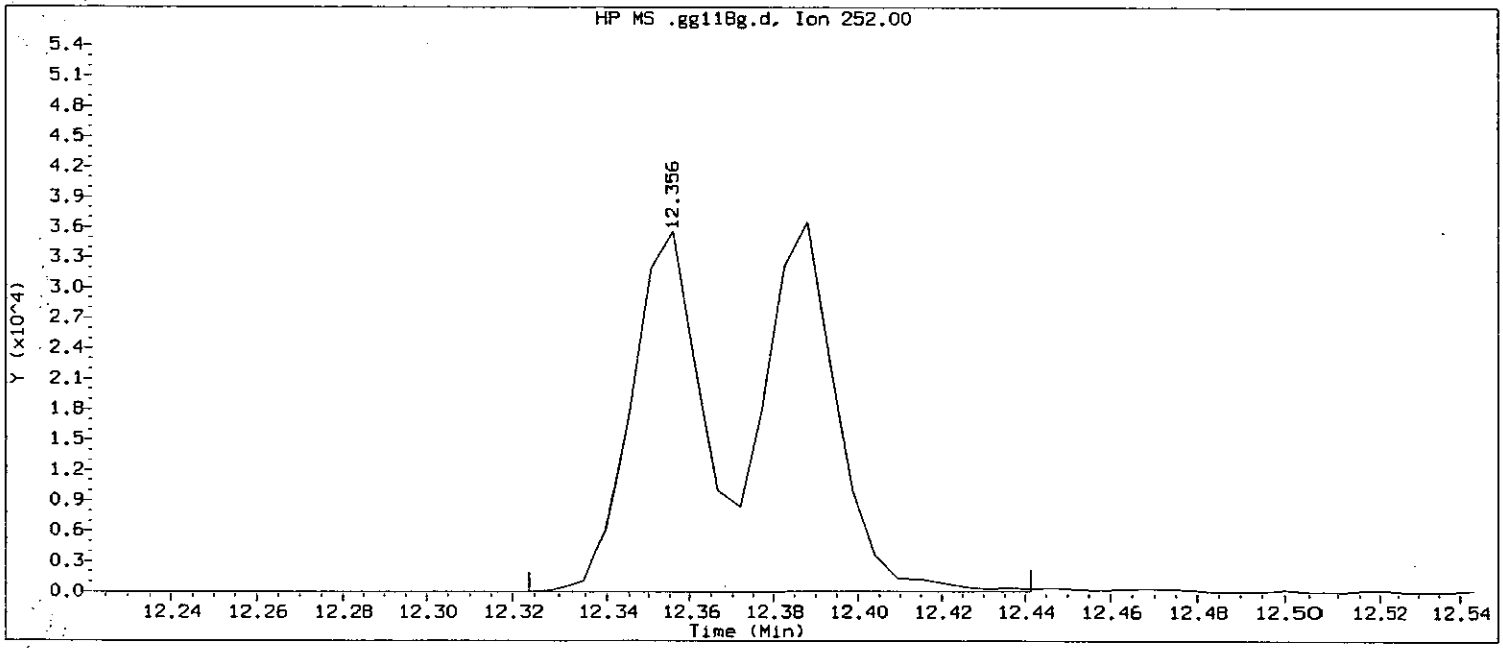
GC/MS audit/management approval: 07/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

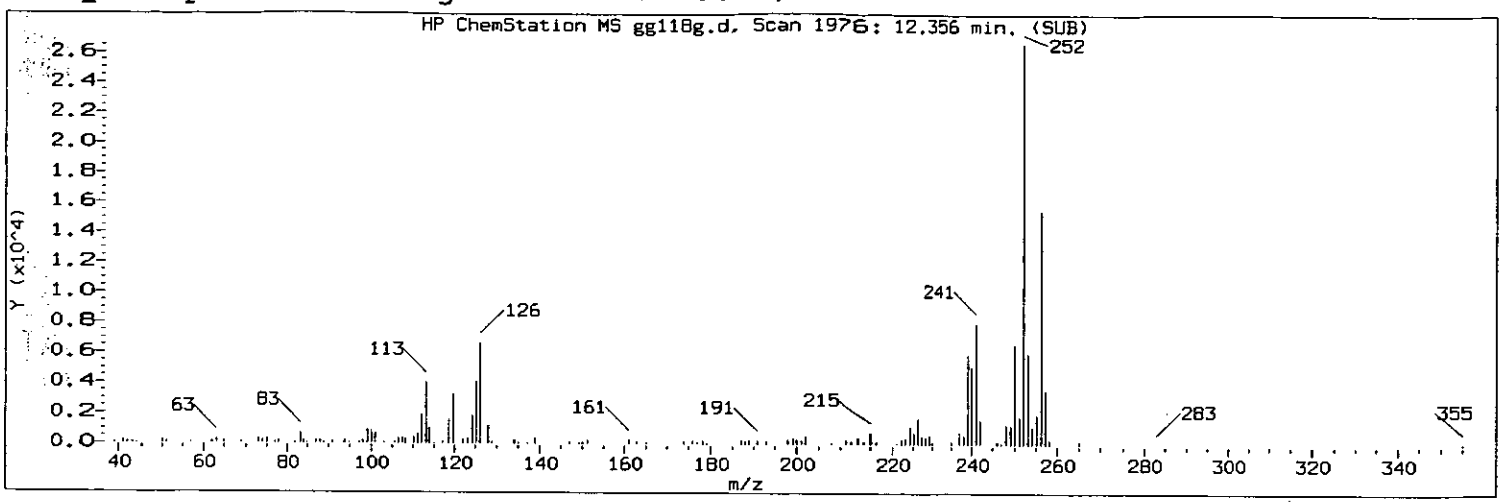
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	: 171
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1976
Retention Time (minutes)	: 12.356
Quant Ion	: 252
Area	: 83743
Concentration (ng/ul)	: 3.0470
Integration start scan	: 1969 Integration stop scan: 1991
Y at integration start	: 0 Y at integration end: 60

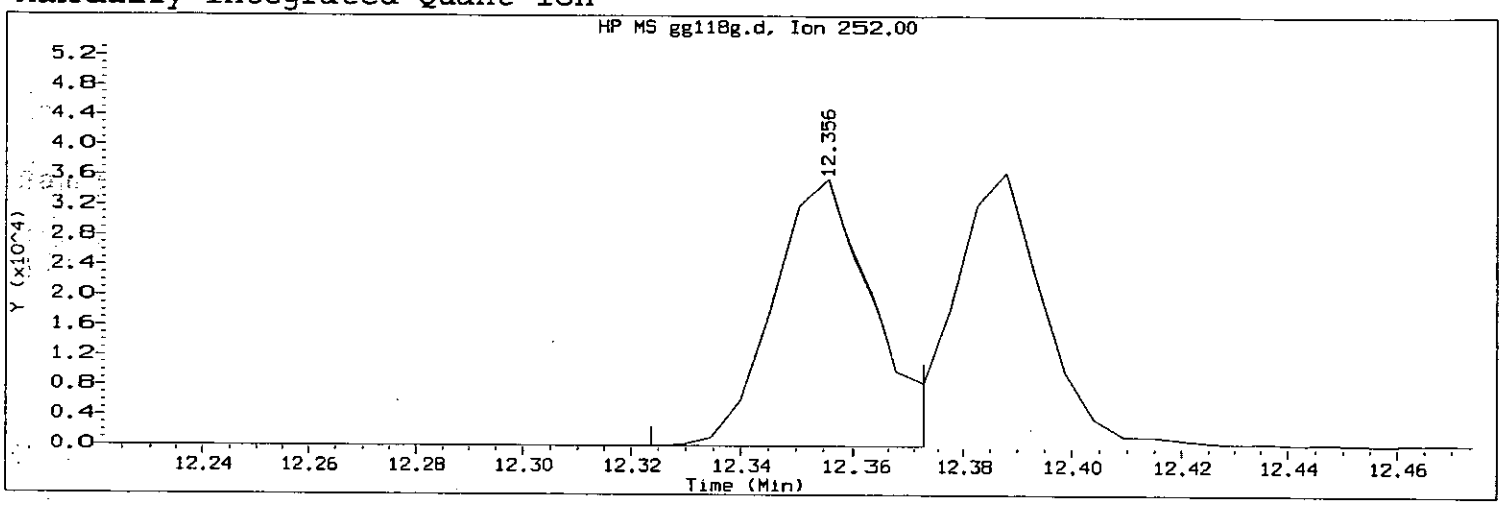
JM6/546
1-31-2007

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	:	171
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1976
Retention Time (minutes)	:	12.356
Quant Ion	:	252
Area (flag)	:	42879 M
Concentration (ng/ul)	:	1.5602
Integration start scan	:	1969 Integration stop scan: 1978
Y at integration start	:	0 Y at integration end: 24

Reason for manual integration (circle one): missed peak (improper integratio

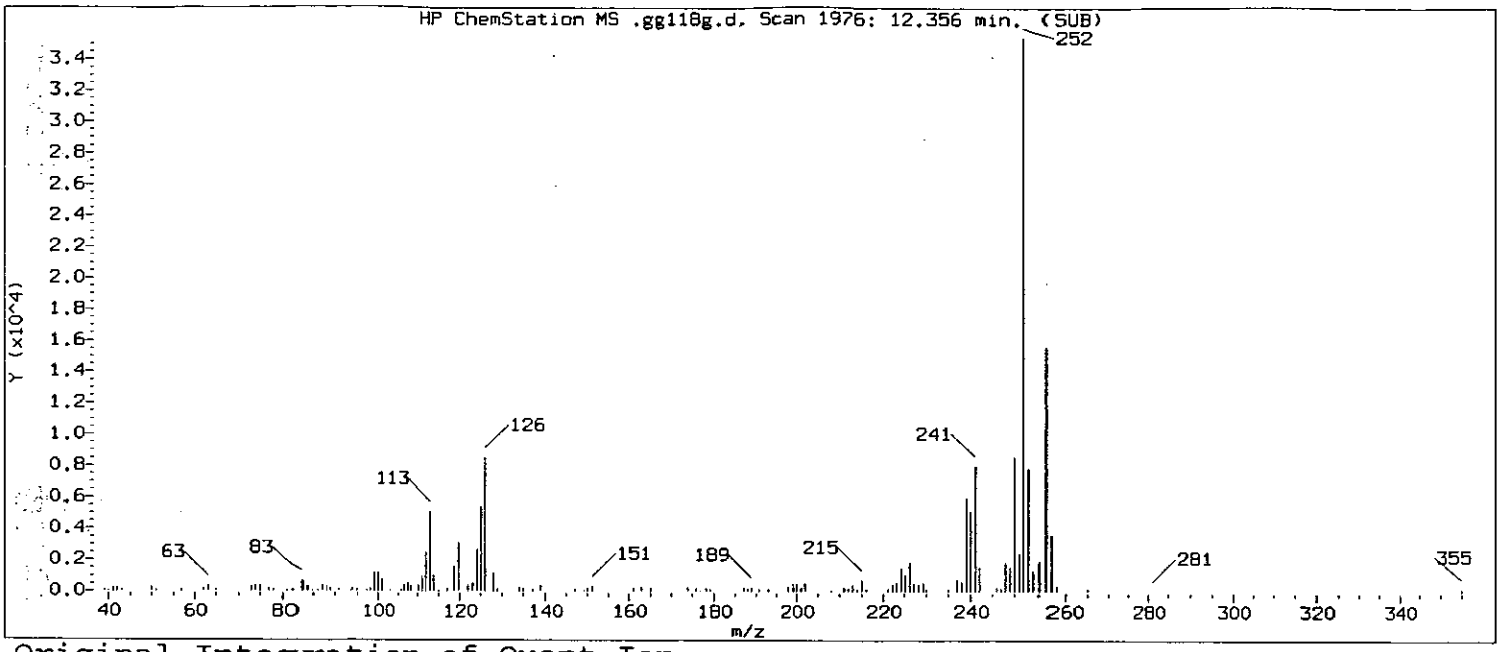
Analyst responsible for change: [signature] 7-31-07

0588

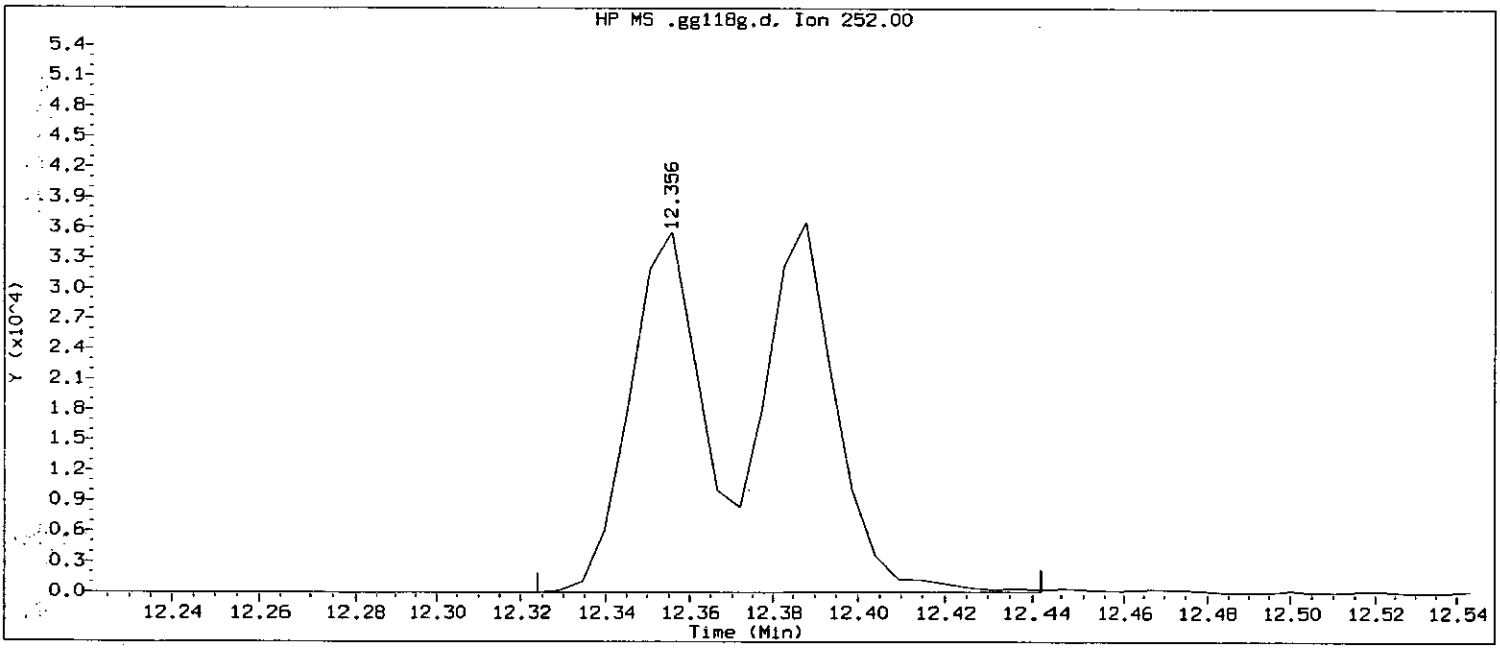
GC/MS audit/management approval: [signature] 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 30-Jul-2007 22:59 Automation

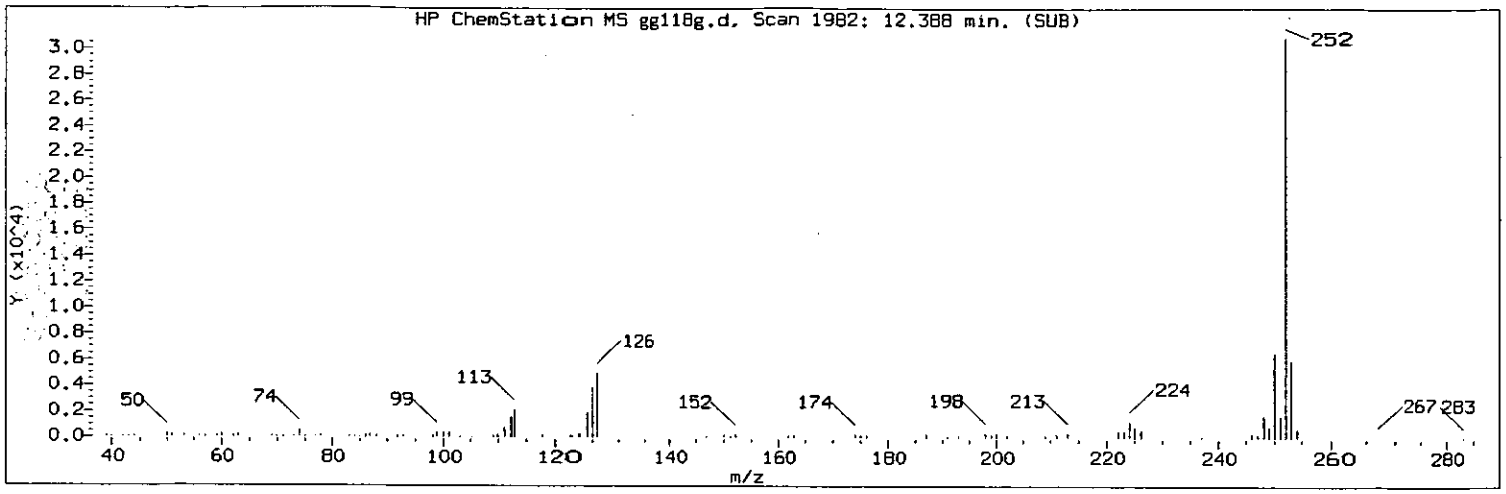
Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	: 172
Compound Name	: Benzo(k)fluoranthene
Scan Number	: 1976
Retention Time (minutes)	: 12.356
Quant Ion	: 252
Area	: 83742
Concentration (ng/ul)	: 3.0020
Integration start scan	: 1969 Integration stop scan: 1991
Y at integration start	: 0 Y at integration end: 60

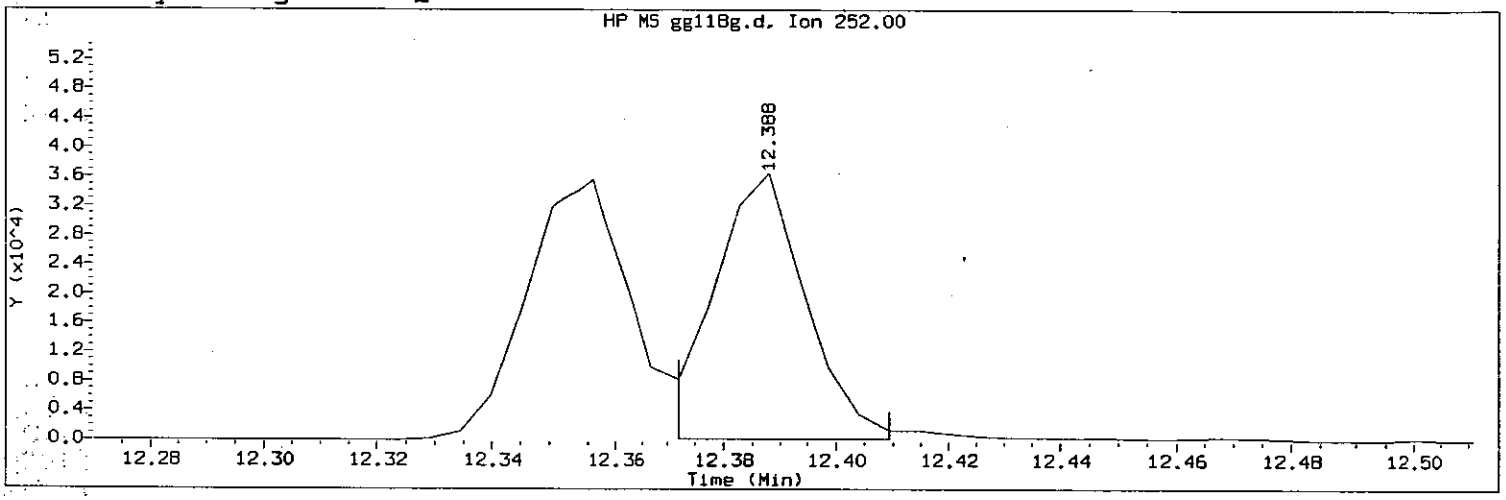
JM6 8/16
7-5 8589

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118g.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 22:42 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 22:46
Date, time and analyst ID of latest file update: 31-Jul-2007 05:15 jmg00346

Sample Name: SSTD001 Lab Sample ID: 8270MDL2057

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1982
Retention Time (minutes)	:	12.388
Quant Ion	:	252
Area (flag)	:	42038 M
Concentration (ng/ul)	:	1.5070
Integration start scan	:	1978 Integration stop scan: 1985
Y at integration start	:	210 Y at integration end: 210

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 7-31-07

0598

GC/MS audit/management approval: [signature] 8/1/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118g.d, generated on 07/31/2007 at 05:19

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP11165

Method: SW-846 8270C File ID: gg118h.d

ICV SAMPLE ID: ICV1387 BATCH: 07JUL30A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
1,4-Dioxane	1666.67	1549.77	-7	20	YES
N-Nitrosodimethylamine	1666.67	1685.70	1	20	YES
Pyridine	1666.67	1408.99	-15	20	YES
2-Picoline	1666.67	1653.45	-1	20	YES
N-Nitrosomethylethylamine	1666.67	1581.72	-5	20	YES
Methyl methanesulfonate	1666.67	1206.76	-28	20	NO
2-Fluorophenol	1666.67	1580.60	-5	20	YES
N-Nitrosodiethylamine	1666.67	1595.66	-4	20	YES
Ethyl methanesulfonate	1666.67	1611.68	-3	20	YES
Aniline	1666.67	1509.11	-9	20	YES
Phenol-d5	1666.67	1578.75	-5	20	YES
Phenol-d6	1666.67	1578.75	-5	20	YES
Phenol	1666.67	1586.72	-5	20	YES
Pentachloroethane	1666.67	1652.35	-1	20	YES
bis(2-Chloroethyl)ether	1666.67	1611.15	-3	20	YES
2-Chlorophenol	1666.67	1584.82	-5	20	YES
1,3-Dichlorobenzene	1666.67	1638.01	-2	20	YES
1,4-Dichlorobenzene	1666.67	1651.37	-1	20	YES
Benzyl alcohol	1666.67	1536.27	-8	20	YES
1,2-Dichlorobenzene	1666.67	1596.38	-4	20	YES
2-Methylphenol	1666.67	1515.76	-9	20	YES
2,2'-oxybis(1-Chloropropane	1666.67	1359.09	-18	20	YES
bis(2-Chloroisopropyl)ether	1666.67	1359.09	-18	20	YES
N-Nitrosopyrrolidine	1666.67	1591.26	-5	20	YES
Acetophenone	1666.67	1618.73	-3	20	YES
N-Nitroso-di-n-propylamine	1666.67	1591.56	-5	20	YES
N-Nitrosomorpholine	1666.67	1577.81	-5	20	YES
3+4-Methylphenol	1666.67	1583.74	-5	20	YES
3+4-Toluidine	1666.67	1543.74	-7	20	YES
Hexachloroethane	1666.67	1642.69	-1	20	YES
Nitrobenzene-d5	1666.67	1604.98	-4	20	YES
Nitrobenzene	1666.67	1592.92	-4	20	YES
N-Nitrosopiperidine	1666.67	1633.78	-2	20	YES
Isophorone	1666.67	1441.57	-14	20	YES
2-Nitrophenol	1666.67	1717.20	3	20	YES
2,4-Dimethylphenol	1666.67	1602.02	-4	20	YES
O,O,O-triethylphosphorothio	1666.67	1548.44	-7	20	YES

Comments: NC = Could not calculate

7/31/07

7-31-07

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP11165

Method: SW-846 8270C File ID: gg118h.d

ICV SAMPLE ID: ICV1387 BATCH: 07JUL30A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
bis(2-Chloroethoxy)methane	1666.67	1627.98	-2	20	YES
Benzoic acid	1666.67	1829.11	10	20	YES
2,4-Dichlorophenol	1666.67	1581.85	-5	20	YES
1,2,4-Trichlorobenzene	1666.67	1634.02	-2	20	YES
Naphthalene	1666.67	1659.74	0	20	YES
4-Chloroaniline	1666.67	1662.66	0	20	YES
2,6-Dichlorophenol	1666.67	1612.63	-3	20	YES
Hexachloropropene	1666.67	1666.15	0	20	YES
Hexachlorobutadiene	1666.67	1656.77	-1	20	YES
Caprolactam	1666.67	1635.94	-2	20	YES
N-Nitrosodi-n-butylamine	1666.67	1458.59	-12	20	YES
4-Chloro-3-methylphenol	1666.67	1628.65	-2	20	YES
Safrole	1666.67	1684.35	1	20	YES
2-Methylnaphthalene	1666.67	1632.67	-2	20	YES
1-Methylnaphthalene	1666.67	1566.12	-6	20	YES
Hexachlorocyclopentadiene	3333.33	3723.03	12	20	YES
1,2,4,5-Tetrachlorobenzene	1666.67	1648.56	-1	20	YES
cis-Isosafrole	1666.67	270.79	-84	20	NO
2,4,6-Trichlorophenol	1666.67	1638.54	-2	20	YES
2,4,5-Trichlorophenol	1666.67	1581.99	-5	20	YES
2-Fluorobiphenyl	1666.67	1611.15	-3	20	YES
trans-Isosafrole	1666.67	1389.49	-17	20	YES
sosafrole	1666.67	1561.22	-6	20	YES
iphenyl	1666.67	1664.65	0	20	YES
iphenyl	1666.67	1664.65	0	20	YES
,1'-Biphenyl	1666.67	1664.65	0	20	YES
-Chloronaphthalene	1666.67	1319.93	-21	20	NO
-Chloronaphthalene	1666.67	.00	0	20	YES
iphenyl ether	1666.67	1546.94	-7	20	YES
-Nitroaniline	1666.67	1696.11	2	20	YES
,4-Naphthoquinone	18333.33	20176.38	10	20	YES
,4-Dinitrobenzene	1666.67	1603.70	-4	20	YES
imethylphthalate	1666.67	1601.20	-4	20	YES
,3-Dinitrobenzene	1666.67	1664.83	0	20	YES
,6-Dinitrotoluene	1666.67	1657.90	-1	20	YES
cenaphthylene	1666.67	1646.24	-1	20	YES
-Nitroaniline	1666.67	1622.54	-3	20	YES

omments: NC = Could not calculate

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP11165

Method: SW-846 8270C File ID: gg118h.d

ICV SAMPLE ID: ICV1387 BATCH: 07JUL30A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D window	INSPEC
Acenaphthene	1666.67	1656.50	-1	20	YES
2,4-Dinitrophenol	1666.67	1593.57	-4	20	YES
Pentachlorobenzene	1666.67	1658.73	0	20	YES
4-Nitrophenol	1666.67	1663.00	0	20	YES
Dibenzofuran	1666.67	1622.13	-3	20	YES
2,4-Dinitrotoluene	1666.67	1642.85	-1	20	YES
1-Naphthylamine	1666.67	1585.42	-5	20	YES
2,3,4,6-Tetrachlorophenol	1666.67	1665.90	0	20	YES
2-Naphthylamine	1666.67	1533.10	-8	20	YES
Diethylphthalate	1666.67	1600.71	-4	20	YES
Phionazin	1666.67	1538.60	-8	20	YES
Fluorene	1666.67	1667.12	0	20	YES
4-Chlorophenyl-phenylether	1666.67	1650.58	-1	20	YES
4-Nitro-o-toluidine	1666.67	1625.56	-2	20	YES
4-Nitroaniline	1666.67	1624.20	-3	20	YES
4,6-Dinitro-2-methylphenol	1666.67	1552.29	-7	20	YES
1-Nitronaphthalene	1666.67	1635.52	-2	20	YES
N-Nitrosodiphenylamine	1666.67	1559.99	-6	20	YES
1,2-Diphenylhydrazine	1666.67	1663.45	0	20	YES
2,4,6-Tribromophenol	1666.67	1654.55	-1	20	YES
Tetraethyldithiopyrophospha	1666.67	1511.77	-9	20	YES
1,3,5-Trinitrobenzene	1666.67	1612.53	-3	20	YES
Diallate (peak 1)	1666.67	1198.83	-28	20	NO
Phorate	1666.67	1331.86	-20	20	YES
Phenacetin	1666.67	1654.13	-1	20	YES
4-Bromophenyl-phenylether	1666.67	1644.16	-1	20	YES
Diallate (peak 2)	1666.67	446.41	-73	20	NO
Hexachlorobenzene	1666.67	1650.26	-1	20	YES
Dimethoate	1666.67	1624.64	-3	20	YES
Diallate TRANS/CIS	1666.67	1644.79	-1	20	YES
Pentachlorophenol	1666.67	1533.36	-8	20	YES
Pentachloronitrobenzene	1666.67	1632.43	-2	20	YES
4-Aminobiphenyl	1666.67	1790.22	7	20	YES
Pronamide	1666.67	1603.84	-4	20	YES
Dinoseb	1666.67	1614.83	-3	20	YES
Phenanthrene	1666.67	1645.44	-1	20	YES
Anthracene	1666.67	1652.72	-1	20	YES

NC = Could not calculate

Comments:

Lancaster Laboratories, Inc.
Semi Volatile Initial Calibration Verification

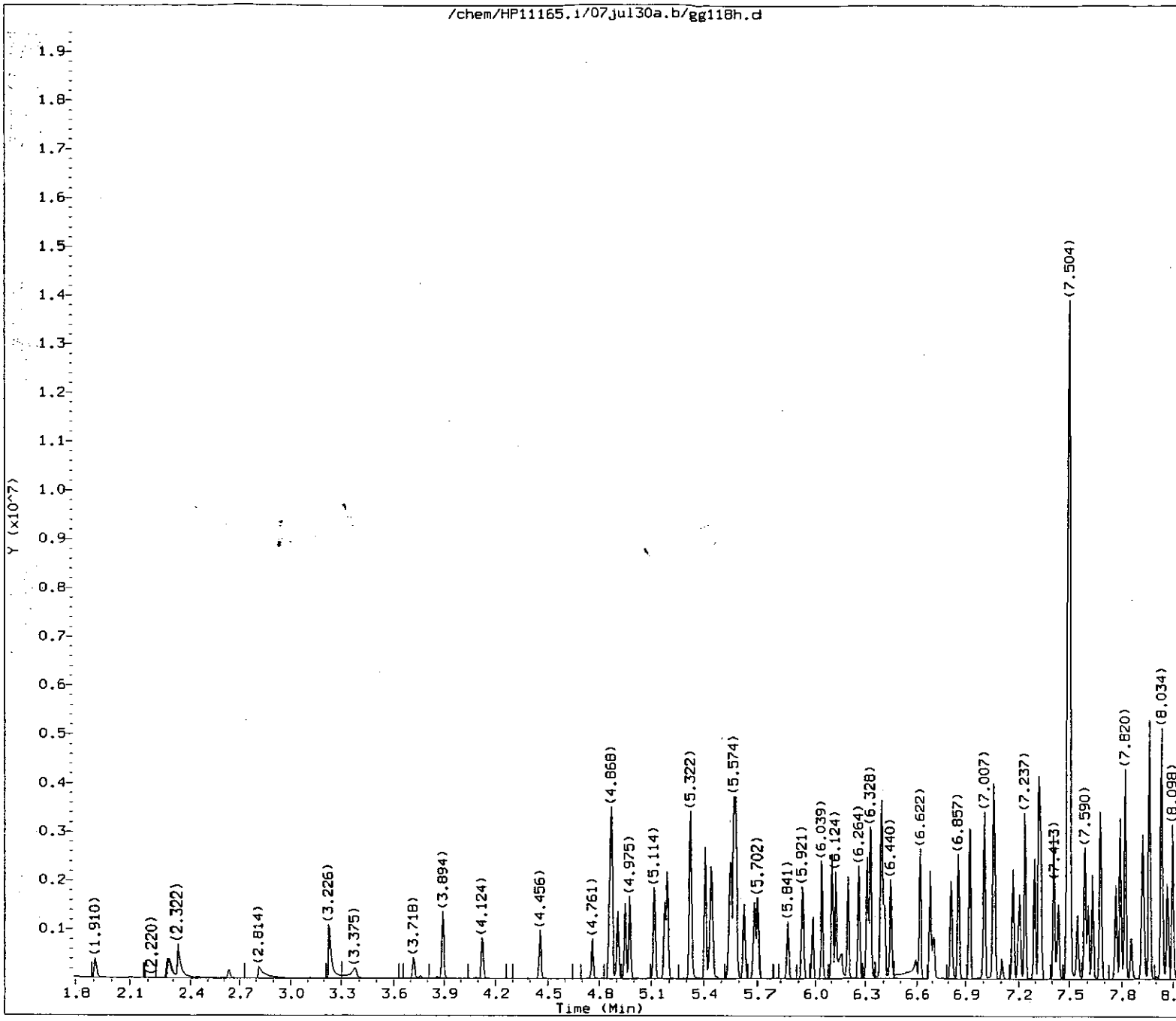
LAB NAME: LANCASTER LABS LAB CODE: LANCAS INSTRUMENT: HP11165

Method: SW-846 8270C File ID: gg118h.d

ICV SAMPLE ID: ICV1387 BATCH: 07JUL30A026 Sample Name: SSTD050

COMPOUND NAME	TRUE CONC.	ACTUAL CONC.	% DRIFT	%D Window	INSPEC
Carbazole	1666.67	1628.07	-2	20	YES
Methyl parathion	1666.67	1633.82	-2	20	YES
Di-n-butylphthalate	1666.67	1630.94	-2	20	YES
Parathion	1666.67	1684.77	1	20	YES
4-Nitroquinoline-1-oxide	18333.33	23647.16	29	20	NO
Methapyrilene	1666.67	102.23	-94	20	NO
Isodrin	1666.67	1597.99	-4	20	YES
Fluoranthene	1666.67	1552.36	-7	20	YES
Benzidine	8333.33	7848.96	-6	20	YES
Pyrene	1666.67	1658.11	-1	20	YES
Terphenyl-d14	1666.67	1648.61	-1	20	YES
p-Dimethylaminoazobenzene	1666.67	1681.29	1	20	YES
Chlorobenzilate	1666.67	1594.52	-4	20	YES
3,3'-Dimethylbenzidine	1666.67	1680.80	1	20	YES
Butylbenzylphthalate	1666.67	1605.90	-4	20	YES
2-Acetylaminofluorene	1666.67	1647.86	-1	20	YES
3,3'-Dichlorobenzidine	1666.67	1580.67	-5	20	YES
4,4'-Methylenebis(2-Chloroa	1666.67	1490.24	-11	20	YES
Benzo(a)anthracene	1666.67	1626.47	-2	20	YES
Chrysene	1666.67	1711.05	3	20	YES
Bis(2-Ethylhexyl)phthalate	1666.67	1618.51	-3	20	YES
Di-n-octylphthalate	1666.67	1685.83	1	20	YES
7,12-Dimethylbenz[a]anthrac	1666.67	1572.08	-6	20	YES
Benzo(b)fluoranthene	1666.67	1714.26	3	20	YES
Benzo(k)fluoranthene	1666.67	1666.92	0	20	YES
Benzo(a)pyrene	1666.67	1638.26	-2	20	YES
3-Methylcholanthrene	1666.67	1583.69	-5	20	YES
Indeno(1,2,3-cd)pyrene	1666.67	1612.75	-3	20	YES
Dibenz(a,h)anthracene	1666.67	1725.03	4	20	YES
Benzo(g,h,i)perylene	1666.67	1643.84	-1	20	YES
5-Methylchrysene	1666.67	1684.10	1	20	YES
Dibenz(a,h)acridine	1666.67	1659.35	0	20	YES
Dibenz(a,j)acridine	1666.67	1710.22	3	20	YES
Hexabromobenzene	1666.67	.00	0	20	YES
Pronnel	1666.67	.00	0	20	YES

Comments: NC = Could not calculate



Quant Report

Target Revision 3.5

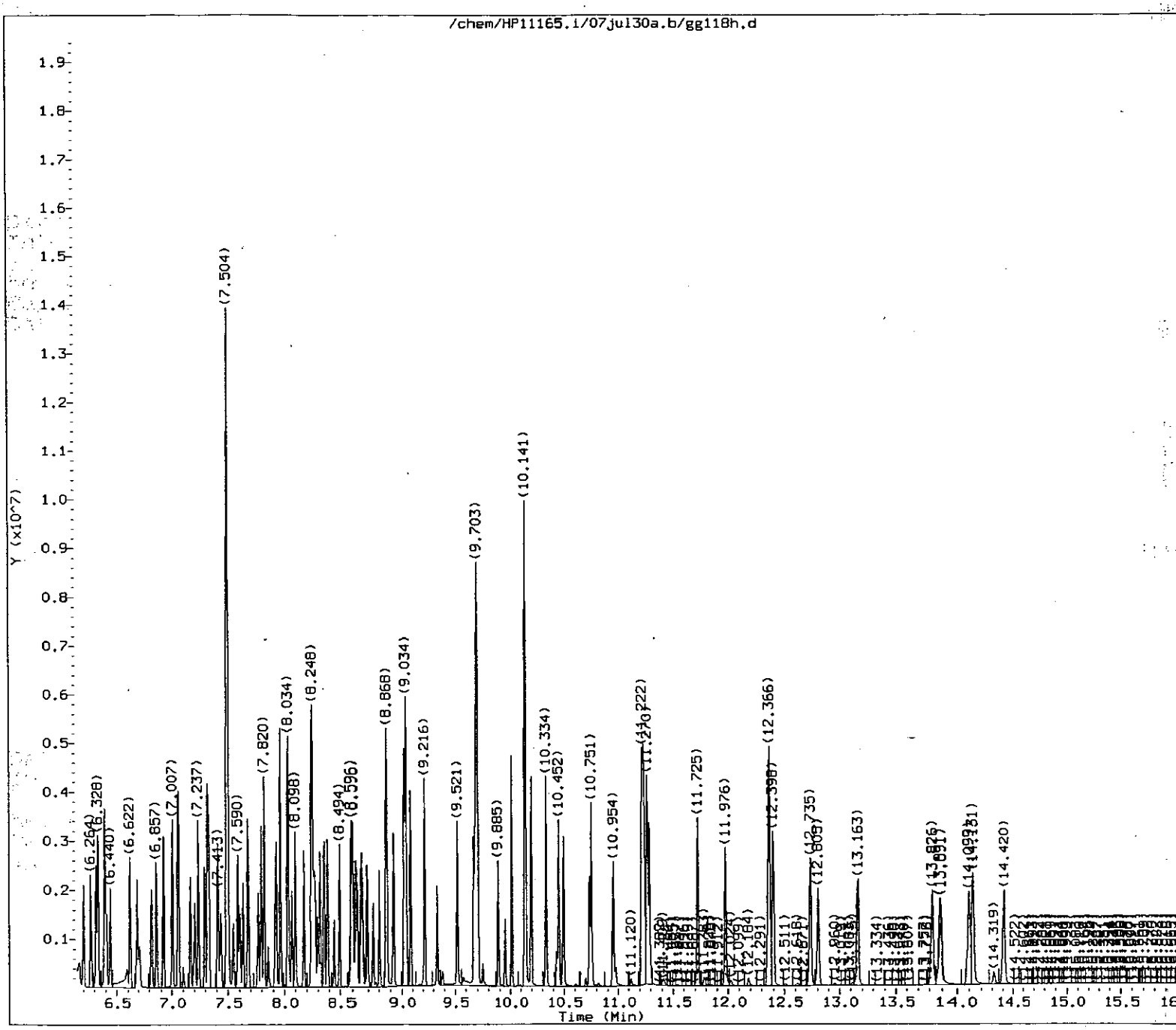
Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

JMG/346
7-31-07

8595



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

JMG 8596
7-31-07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1) 1,4-Dioxane	(1)	1.910	88	158185	46.493
2) N-Nitrosodimethylamine	(1)	2.284	74	258870	50.571
3) Pyridine	(1)	2.322	79	397735	42.270
5) 2-Picoline	(1)	3.226	93	473858	49.604
6) N-Nitrosomethylethylamine	(1)	3.381	88	215679	47.452
7) Methyl methanesulfonate	(1)	3.718	80	142815	36.203
10) N-Nitrosodiethylamine	(1)	4.124	102	223457	47.870
11) Ethyl methanesulfonate	(1)	4.456	109	216272	48.350
13) Aniline	(1)	4.868	93	676714	45.273
16) Phenol	(1)	4.873	94	621718	47.601
17) Pentachloroethane	(1)	4.905	167	128304	49.570
18) bis(2-Chloroethyl)ether	(1)	4.948	93	447177	48.334
19) 2-Chlorophenol	(1)	4.975	128	377920	47.544
20) 1,3-Dichlorobenzene	(1)	5.114	146	390948	49.140
21) 1,4-Dichlorobenzene-d4	(1)	5.172	152	192884	40.000
22) 1,4-Dichlorobenzene	(1)	5.188	146	403973	49.541
24) Benzyl alcohol	(1)	5.317	108	291237	46.088
25) 1,2-Dichlorobenzene	(1)	5.322	146	371324	47.891
26) 2-Methylphenol	(1)	5.440	108	405584	45.473
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.451	45	414972	40.773
28) bis(2-Chloroisopropyl)ether	(1)	5.451	45	414972	40.773
29) N-Nitrosopyrrolidine	(1)	5.547	100	254791	47.738
30) Acetophenone	(1)	5.558	105	624888	48.562
31) N-Nitroso-di-n-propylamine	(1)	5.574	70	303621	47.747
32) N-Nitrosomorpholine	(1)	5.584	56	219431	47.334
33) 4-Methylphenol	(1)	5.574	108	475046	47.512
34) o-Toluidine	(1)	5.584	106	709269	46.312
37) Hexachloroethane	(1)	5.632	117	157616	49.281
39) Nitrobenzene	(2)	5.702	77	443953	47.788
40) N-Nitrosopiperidine	(2)	5.841	114	229698	49.013
41) Isophorone	(2)	5.921	82	799426	43.247
42) 2-Nitrophenol	(2)	5.985	139	208746	51.516
44) 2,4-Dimethylphenol	(2)	6.039	107	443303	48.061
45) O,O,O-triethylphosphorothioate	(2)	6.103	198	194070	46.453
46) bis(2-Chloroethoxy)methane	(2)	6.124	93	540937	48.839
47) Benzoic acid	(2)	6.162	105	363359	54.873
49) 2,4-Dichlorophenol	(2)	6.199	162	327636	47.455
50) 1,2,4-Trichlorobenzene	(2)	6.264	180	336703	49.021
52) Naphthalene-d8	(2)	6.312	136	860387	40.000
53) Naphthalene	(2)	6.328	128	1202994	49.792
55) 4-Chloroaniline	(2)	6.387	127	505645	49.880
56) 2,6-Dichlorophenol	(2)	6.392	162	317307	48.379
57) Hexachloropropene	(2)	6.408	213	201080	49.985

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
59)	Hexachlorobutadiene	(2)	6.440	225	178349	49.703
62)	Caprolactam	(2)	6.707	113	173238	49.078
63)	N-Nitrosodi-n-butylamine	(2)	6.686	84	333981	43.758
67)	4-Chloro-3-methylphenol	(2)	6.814	107	412527	48.859
68)	Safrole	(2)	6.857	162	323236	50.531
69)	2-Methylnaphthalene	(2)	6.927	142	780146	48.980
70)	1-Methylnaphthalene	(2)	7.007	142	740313	46.984
71)	Hexachlorocyclopentadiene	(3)	7.055	237	407503	111.691
72)	1,2,4,5-Tetrachlorobenzene	(3)	7.066	216	331384	49.457
73)	cis-Isosafrole	(3)	7.103	162	50069	8.124
74)	2,4,6-Trichlorophenol	(3)	7.167	196	232480	49.156
76)	2,4,5-Trichlorophenol	(3)	7.205	196	256425	47.460
78)	trans-Isosafrole	(3)	7.296	162	336083	41.685
79)	Isosafrole	(3)	7.296	162	336083	46.837
80)	Biphenyl	(3)	7.317	154	1020452	49.939
81)	Diphenyl	(3)	7.317	154	1020452	49.939
82)	1,1'-Biphenyl	(3)	7.317	154	1020452	49.939
83)	2-Chloronaphthalene	(3)	7.333	162	736197	39.598
87)	Diphenyl ether	(3)	7.408	170	501330	46.408
88)	2-Nitroaniline	(3)	7.435	138	285183	50.883
89)	1,4-Naphthoquinone	(3)	7.504	158	3556479	605.292
90)	1,4-Dinitrobenzene	(3)	7.547	168	134365	48.111
91)	Dimethylphthalate	(3)	7.590	163	869445	48.036
92)	1,3-Dinitrobenzene	(3)	7.606	168	162387	49.945
93)	2,6-Dinitrotoluene	(3)	7.633	165	210621	49.737
94)	Acenaphthylene	(3)	7.676	152	1246680	49.387
96)	3-Nitroaniline	(3)	7.766	138	245444	48.676
97)	Acenaphthene-d10	(3)	7.793	164	555957	40.000
98)	Acenaphthene	(3)	7.820	153	801641	49.695
99)	2,4-Dinitrophenol	(3)	7.857	184	114448	47.807
100)	Pentachlorobenzene	(3)	7.927	250	327609	49.762
102)	4-Nitrophenol	(3)	7.916	109	147771	49.890
103)	Dibenzofuran	(3)	7.964	168	1102403	48.664
104)	2,4-Dinitrotoluene	(3)	7.964	165	274202	49.286
105)	1-Naphthylamine	(3)	8.034	143	812024	47.562
106)	2,3,4,6-Tetrachlorophenol	(3)	8.066	232	210562	49.977
107)	2-Naphthylamine	(3)	8.098	143	810369	45.993
108)	Diethylphthalate	(3)	8.173	149	825070	48.021
109)	Thionazin	(3)	8.243	107	157271	46.158
110)	Fluorene	(3)	8.248	166	919277	50.014
111)	4-Chlorophenyl-phenylether	(3)	8.253	204	431403	49.517
112)	5-Nitro-o-toluidine	(3)	8.264	152	273908	48.767
113)	4-Nitroaniline	(3)	8.275	138	262943	48.726

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
114)	4,6-Dinitro-2-methylphenol	(4)	8.296	198	167375	46.569
115)	1-Nitronaphthalene	(4)	8.317	173	183521	49.065
116)	N-Nitrosodiphenylamine	(4)	8.355	169	639786	46.800
117)	1,2-Diphenylhydrazine	(4)	8.382	77	1015107	49.904
119)	Tetraethyldithiopyrophosphate	(4)	8.494	97	140505	45.353
120)	1,3,5-Trinitrobenzene	(4)	8.585	213	105451	48.376
121)	Diallate (peak 1)	(4)	8.590	86	344719	35.965
122)	Phorate	(4)	8.601	75	582078	39.956
123)	Phenacetin	(4)	8.622	108	521342	49.624
124)	4-Bromophenyl-phenylether	(4)	8.654	248	249524	49.325
125)	Diallate (peak 2)	(4)	8.665	86	126735	13.392
126)	Hexachlorobenzene	(4)	8.692	284	283539	49.508
127)	Dimethoate	(4)	8.745	87	362360	48.739
128)	Diallate TRANS/CIS	(4)	23.156	86	471454	49.344
130)	Pentachlorophenol	(4)	8.863	266	160289	46.001
131)	Pentachloronitrobenzene	(4)	8.868	237	105335	48.973
132)	4-Aminobiphenyl	(4)	8.868	169	918230	53.707
133)	Pronamide	(4)	8.927	173	368906	48.115
134)	Phenanthrene-d10	(4)	9.018	188	1023547	40.000
135)	Dinoseb	(4)	9.018	211	227879	48.445
136)	Phenanthrene	(4)	9.039	178	1395834	49.363
137)	Anthracene	(4)	9.082	178	1432425	49.581
139)	Carbazole	(4)	9.216	167	1315176	48.842
140)	Methyl parathion	(4)	9.334	109	282742	49.015
141)	Di-n-butylphthalate	(4)	9.521	149	1452596	48.928
142)	Parathion	(4)	9.665	109	201899	50.543
143)	4-Nitroquinoline-1-oxide	(4)	9.703	190	1649665	709.415
144)	Methapyrilene	(4)	9.745	97	59228	3.067
145)	Isodrin	(4)	9.885	193	136429	47.940
146)	Fluoranthene	(4)	10.013	202	1457301	46.571
151)	Benzidine	(5)	10.141	184	3943964	235.469
153)	Pyrene	(5)	10.200	202	1557564	49.743
157)	p-Dimethylaminoazobenzene	(5)	10.452	225	331274	50.439
158)	Chlorobenzilate	(5)	10.494	139	424136	47.836
159)	3,3'-Dimethylbenzidine	(5)	10.735	212	728722	50.424
160)	Butylbenzylphthalate	(5)	10.751	149	629744	48.177
161)	2-Acetylaminofluorene	(5)	10.954	181	570683	49.436
163)	3,3'-Dichlorobenzidine	(5)	11.216	252	512475	47.420
164)	4,4'-Methylenebis(2-Chloroanil	(5)	11.227	231	242755	44.707
165)	Benzo(a)anthracene	(5)	11.232	228	1433744	48.794
166)	Chrysene-d12	(5)	11.243	240	991009	40.000
167)	Chrysene	(5)	11.270	228	1440037	51.331
168)	bis(2-Ethylhexyl)phthalate	(5)	11.291	149	849147	48.555

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

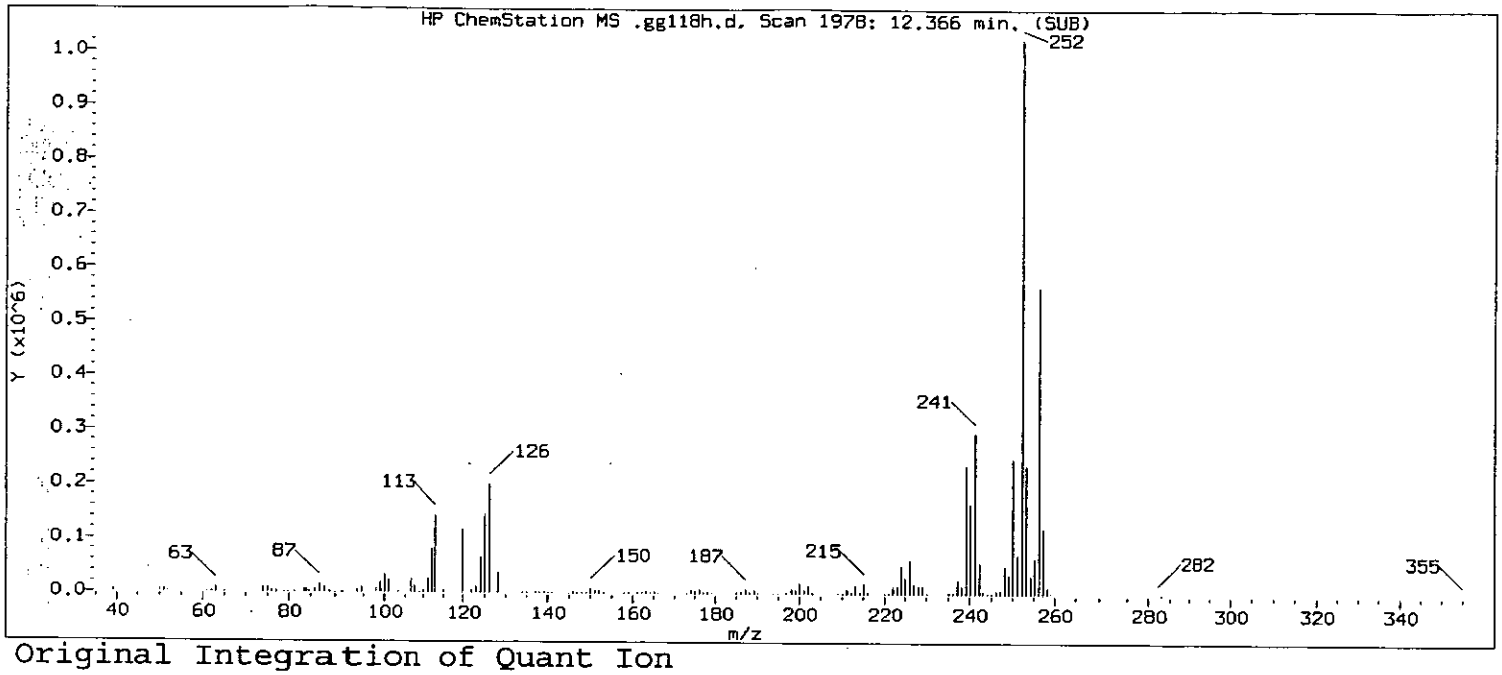
Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

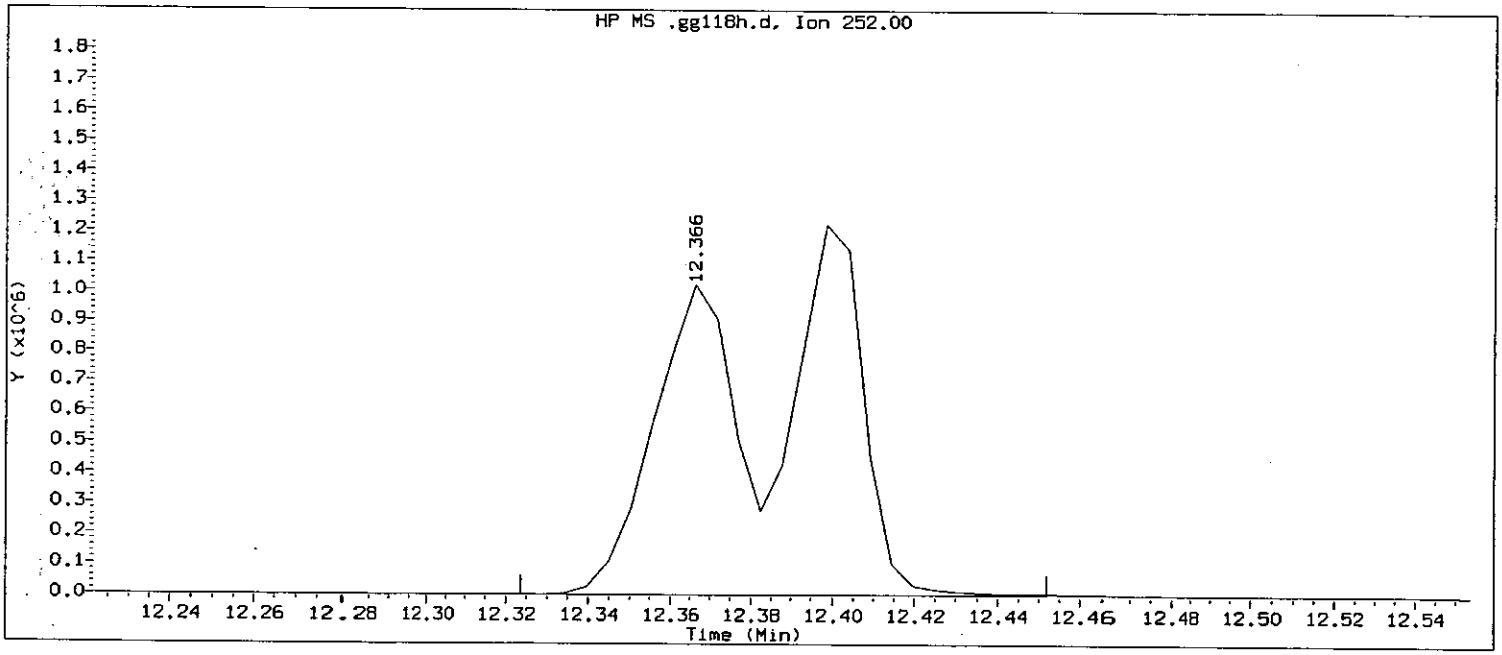
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
188)	6-Methylchrysene	(5)	11.725	242	1020529	50.523
169)	Di-n-octylphthalate	(6)	11.976	149	1406029	50.575
189)	Dibenz(a,h)acridine	(6)	13.826	279	1049605	49.780
190)	Dibenz(a,j)acridine	(6)	13.891	279	1031833	51.307
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.366	256	656063	47.162
171)	Benzo(b)fluoranthene	(6)	12.366	252	1451199M	51.428
172)	Benzo(k)fluoranthene	(6)	12.398	252	1432267M	50.008
173)	Benzo(a)pyrene	(6)	12.735	252	1259279	49.148
174)	Perylene-d12	(6)	12.805	264	777922	40.000
175)	3-Methylcholanthrene	(6)	13.163	268	694733	47.511
176)	Indeno(1,2,3-cd)pyrene	(6)	14.099	276	1368742	48.382
177)	Dibenz(a,h)anthracene	(6)	14.131	278	1206163	51.751
178)	Benzo(g,h,i)perylene	(6)	14.420	276	1174155	49.315
9)	2-Fluorophenol	(1)	3.894	112	377833	47.418
14)	Phenol-d5	(1)	4.857	99	531001	47.363
15)	Phenol-d6	(1)	4.857	99	531001	47.363
38)	Nitrobenzene-d5	(2)	5.686	82	444265	48.150
77)	2-Fluorobiphenyl	(3)	7.237	172	829152	48.334
118)	2,4,6-Tribromophenol	(3)	8.446	330	122852	49.637
155)	Terphenyl-d14	(5)	10.334	244	1005352	49.458

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 30-Jul-2007 23:24 Automation

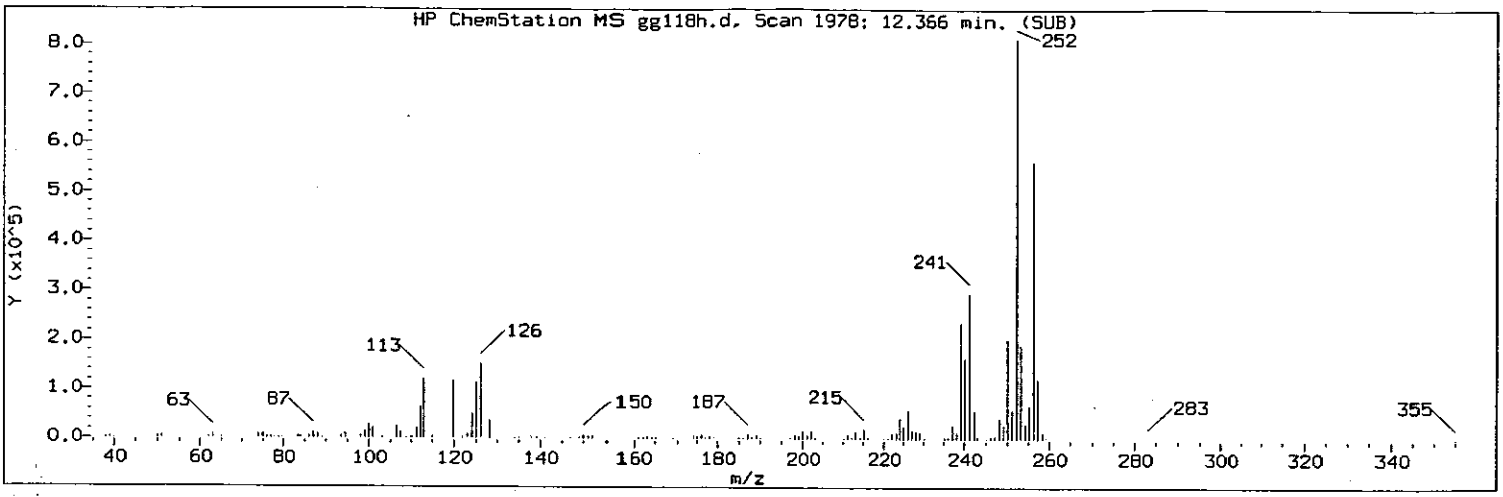
Sample Name: SSTD050 Lab Sample ID: ICV1387

Compound Number	: 171
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1978
Retention Time (minutes)	: 12.366
Quant Ion	: 252
Area	: 2810454
Concentration (ng/ul)	: 99.5972
Integration start scan	: 1969 Integration stop scan: 1993
Y at integration start	: 0 Y at integration end: 1140

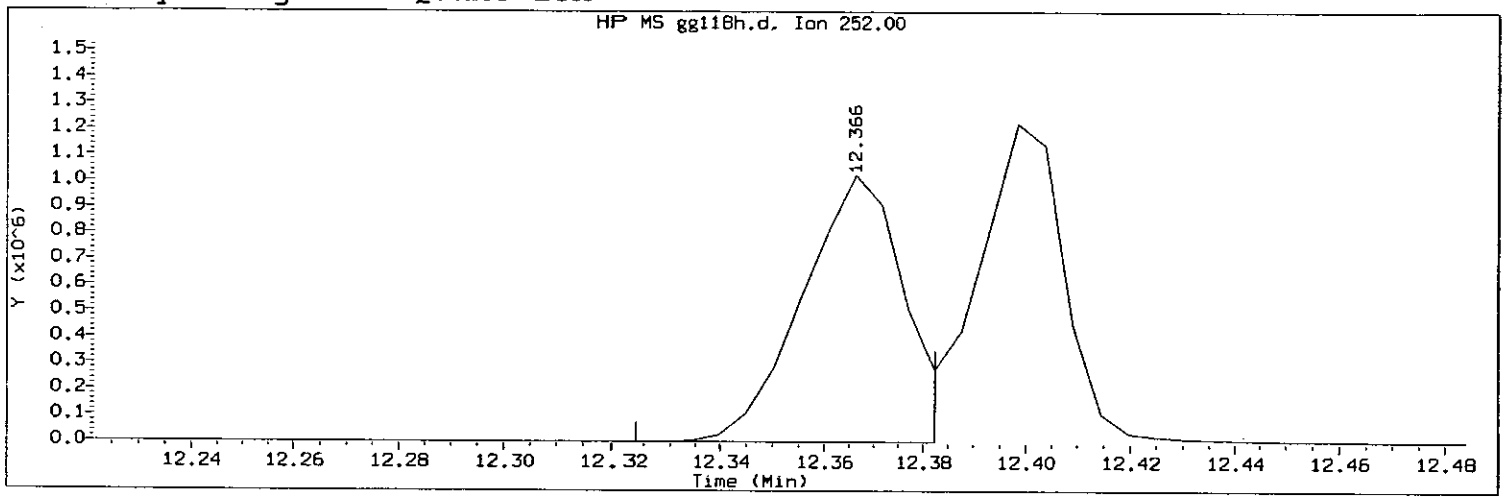
JM 8/2/07
7-31-07 8681

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118h.d, generated on 07/31/2007 at 05:21

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

Compound Number	:	171
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1978
Retention Time (minutes)	:	12.366
Quant Ion	:	252
Area (flag)	:	1451199 M
Concentration (ng/ul)	:	51.4278
Integration start scan	:	1969 Integration stop scan: 1980
Y at integration start	:	0 Y at integration end: 522

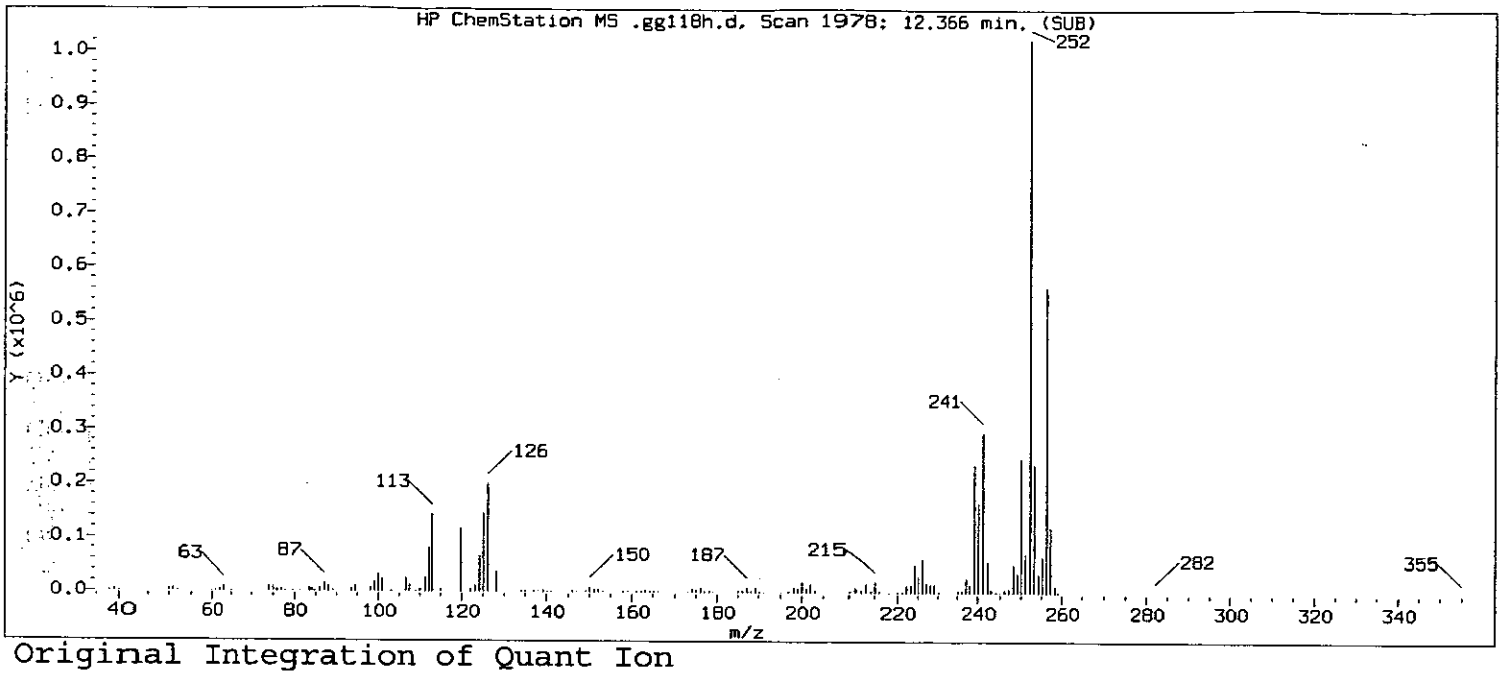
Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: [signature] 7-31-07

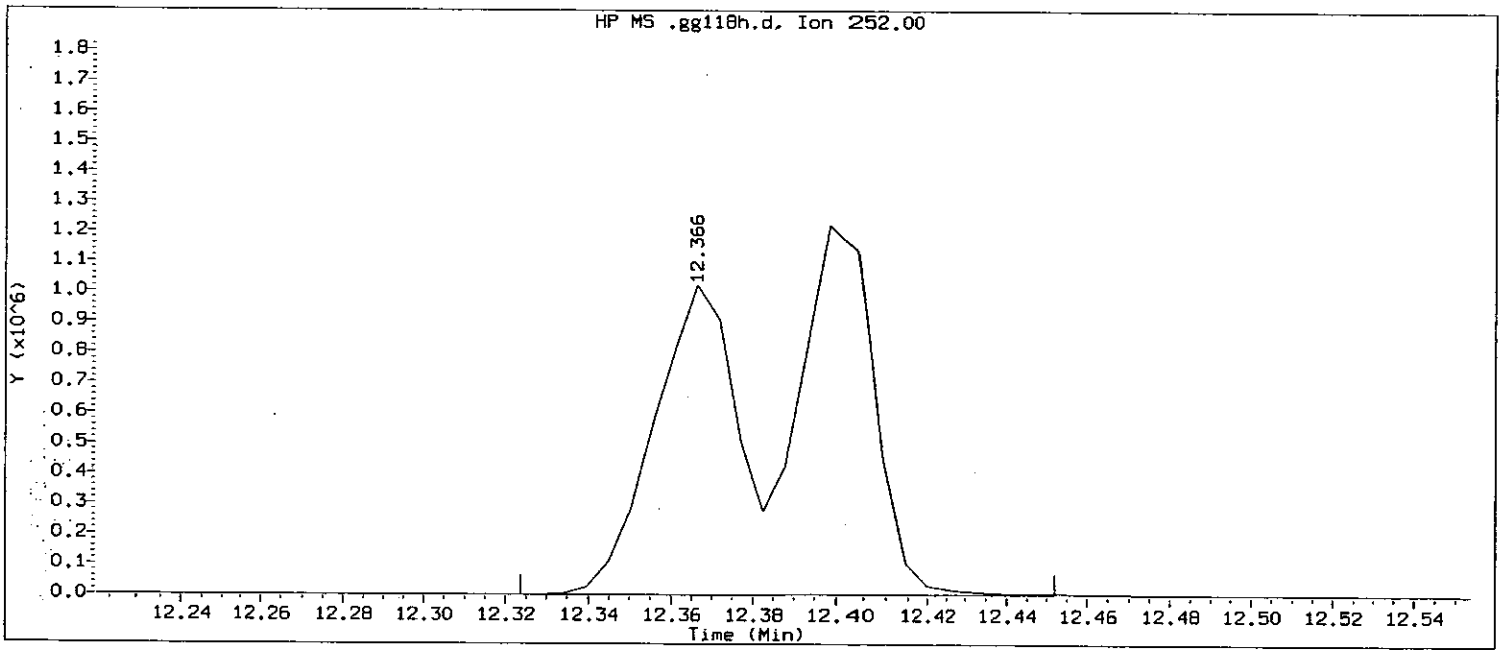
0602

GC/MS audit/management approval: [signature] 07/31/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 30-Jul-2007 23:24 Automation

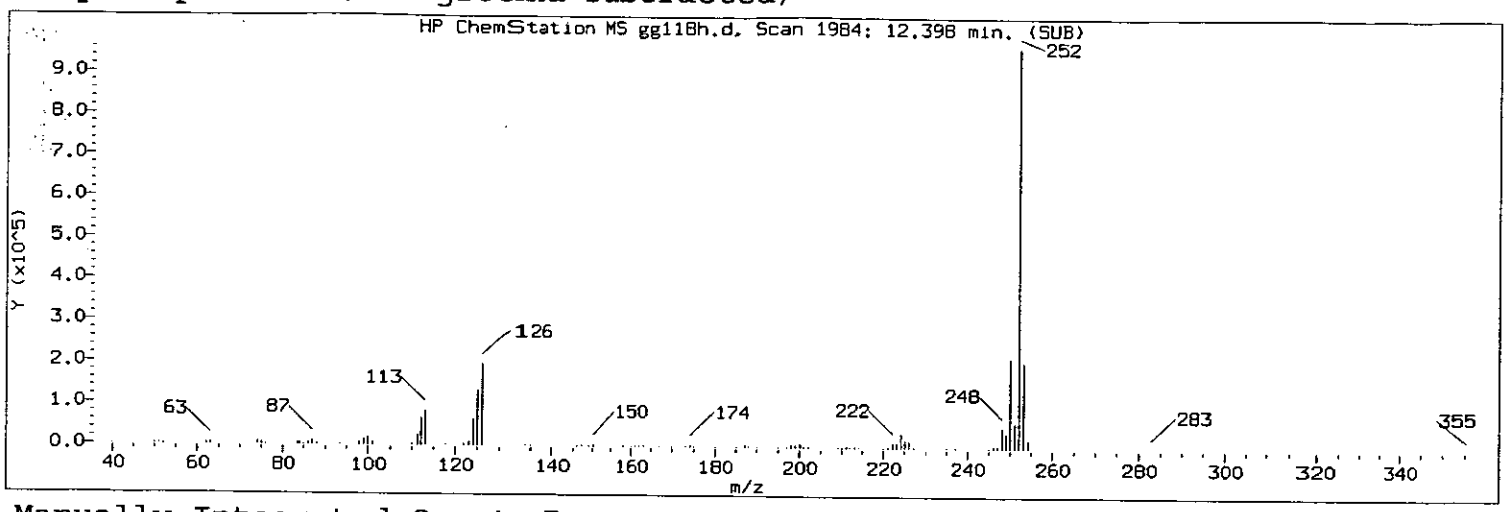
Sample Name: SSTD050 Lab Sample ID: ICV1387

Compound Number : 172
Compound Name : Benzo(k)fluoranthene
Scan Number : 1978
Retention Time (minutes): 12.366
Quant Ion : 252
Area : 2810454
Concentration (ng/ul) : 98.1267
Integration start scan : 1969 Integration stop scan: 1993
Y at integration start : 0 Y at integration end: 1140

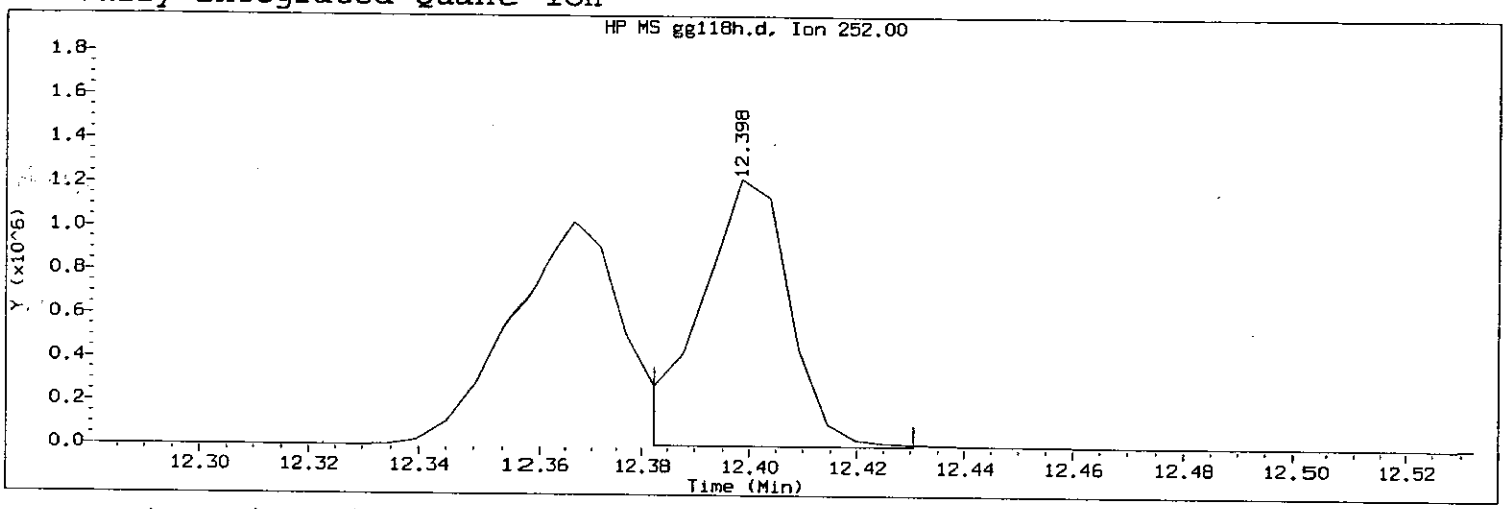
SM16/546
7-31-07 0603

Original Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118h.d, generated on 07/31/2007 at 05:21

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07jul30a.b/gg118h.d Instrument ID: HP11165.i
Injection date and time: 30-JUL-2007 23:07 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07jul30a.b/minti.m Sublist used: all1
Calibration date and time: 30-JUL-2007 23:00
Date, time and analyst ID of latest file update: 31-Jul-2007 05:20 jmg00346

Sample Name: SSTD050 Lab Sample ID: ICV1387

Compound Number	:	172
Compound Name	:	Benzo(k)fluoranthene
Scan Number	:	1984
Retention Time (minutes)	:	12.398
Quant Ion	:	252
Area (flag)	:	1432267 M
Concentration (ng/ul)	:	50.0075
Integration start scan	:	1980 Integration stop scan: 1989
Y at integration start	:	3578 Y at integration end: 3578

Reason for manual integration (circle one): missed peak improper integratic

Analyst responsible for change: [signature] 7-31-07

8684

GC/MS audit/management approval: [signature] 7/31/07

Manual Integration Report for data file /chem/HP11165.i/07jul30a.b/gg118h.d, generated on 07/31/2007 at 05:21

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/09/07 Time: 17:23

Lab File ID: ch0291.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.589	0.680	34.640	30.0	15
	N-Nitrosodimethylamine	0.942	1.128	35.940	30.0	20
	Pyridine	1.741	1.995	34.390	30.0	15
	2-Picoline	1.743	1.997	34.370	30.0	15
*	Phenol	2.313	2.651	34.370	30.0	15*
	Aniline	2.759	2.931	31.870	30.0	6
	bis(2-Chloroethyl)ether	1.669	1.838	33.040	30.0	10
	2-Chlorophenol	1.510	1.625	32.290	30.0	8
	1,3-Dichlorobenzene	1.577	1.614	30.700	30.0	2
*	1,4-Dichlorobenzene	1.644	1.682	30.690	30.0	2*
	Benzyl alcohol	1.094	1.153	31.600	30.0	5
	1,2-Dichlorobenzene	1.556	1.605	30.950	30.0	3
	2-Methylphenol	1.578	1.683	31.990	30.0	7
	2,2'-oxybis(1-Chloropropane)	2.843	2.328	24.560	30.0	-18
	bis(2-Chloroisopropyl)ether	2.843	2.328	24.560	30.0	-18
	Acetophenone	2.362	2.695	34.230	30.0	14
#	N-Nitroso-di-n-propylamine	1.368	1.592	34.910	30.0	16#
	4-Methylphenol	1.769	1.901	32.240	30.0	7
	o-Toluidine	2.725	3.024	33.280	30.0	11
	Hexachloroethane	0.600	0.651	32.550	30.0	8
	Nitrobenzene	0.429	0.472	33.040	30.0	10
	Isophorone	0.831	0.889	32.110	30.0	7
*	2-Nitrophenol	0.144	0.174	36.450	30.0	22*
	2,4-Dimethylphenol	0.396	0.433	32.810	30.0	9
	bis(2-Chloroethoxy)methane	0.480	0.484	30.240	30.0	1
	Benzoic acid	0.214	0.290	49.450	40.0	24
*	2,4-Dichlorophenol	0.310	0.287	27.780	30.0	-7*
	1,2,4-Trichlorobenzene	0.311	0.304	29.340	30.0	-2
	Naphthalene	1.092	1.081	29.700	30.0	-1
	4-Chloroaniline	0.457	0.458	30.070	30.0	0
	2,6-Dichlorophenol	0.298	0.274	27.630	30.0	-8
*	Hexachlorobutadiene	0.174	0.151	26.020	30.0	-13*
	Quinoline	0.742	0.702	28.400	30.0	-5
	Caprolactam	0.128	0.128	29.950	30.0	0
*	4-Chloro-3-methylphenol	0.353	0.377	32.100	30.0	7*
	2-Methylnaphthalene	0.733	0.708	28.980	30.0	-3

0005

FORM VII SV-1

LMM195 08/16/07

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/09/07 Time: 17:23

Lab File ID: ch0291.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1-Methylnaphthalene	0.726	0.697	28.810	30.0	-4
#	Hexachlorocyclopentadiene	0.267	0.234	26.350	30.0	-12#
	1,2,4,5-Tetrachlorobenzene	0.478	0.468	29.390	30.0	-2
*	2,4,6-Trichlorophenol	0.327	0.340	31.150	30.0	4*
	2,4,5-Trichlorophenol	0.387	0.396	30.770	30.0	3
	Biphenyl	1.410	1.556	33.110	30.0	10
	Diphenyl	1.410	1.556	33.110	30.0	10
	1,1'-Biphenyl	1.410	1.556	33.110	30.0	10
	2-Chloronaphthalene	1.412	1.381	29.350	30.0	-2
	1-Chloronaphthalene	1.109	1.252	33.870	30.0	13
	Diphenyl ether	0.799	0.811	30.460	30.0	2
	2-Nitroaniline	0.319	0.412	38.720	30.0	29
	Dimethylphthalate	1.326	1.343	30.400	30.0	1
	2,6-Dinitrotoluene	0.275	0.305	33.320	30.0	11
	Acenaphthylene	1.797	1.905	31.800	30.0	6
	3-Nitroaniline	0.305	0.357	35.080	30.0	17
*	Acenaphthene	1.127	1.197	31.860	30.0	6*
#	2,4-Dinitrophenol	0.084	0.129	53.470	40.0	34#
	Pentachlorobenzene	0.460	0.430	28.010	30.0	-7
#	4-Nitrophenol	0.207	0.260	35.920	30.0	20#
	Dibenzofuran	1.646	1.649	30.040	30.0	0
	2,4-Dinitrotoluene	0.350	0.402	34.520	30.0	15
	1-Naphthylamine	1.187	1.106	27.930	30.0	-7
	2,3,4,6-Tetrachlorophenol	0.271	0.262	29.000	30.0	-3
	2-Naphthylamine	1.205	1.049	26.120	30.0	-13
	Diethylphthalate	1.333	1.400	31.520	30.0	5
	Fluorene	1.346	1.325	29.530	30.0	-2
	4-Chlorophenyl-phenylether	0.623	0.596	28.720	30.0	-4
	4-Nitroaniline	0.336	0.374	33.470	30.0	12
	4,6-Dinitro-2-methylphenol	0.078	0.108	37.590	30.0	25
*	N-Nitrosodiphenylamine (1)	0.548	0.567	31.020	30.0	3*
	1,2-Diphenylhydrazine	0.842	0.997	35.530	30.0	18
	Phorate	0.478	0.810	50.810	30.0	69
	4-Bromophenyl-phenylether	0.199	0.185	27.910	30.0	-7
	Hexachlorobenzene	0.219	0.188	25.720	30.0	-14
*	Pentachlorophenol	0.130	0.123	37.640	40.0	-6*

(1) Cannot be Separated from Diphenylamine

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/09/07 Time: 17:23

Lab File ID: ch0291.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Phenanthrene	1.090	1.129	31.080	30.0	4
	Dinoseb	0.105	0.140	35.280	30.0	18
	Anthracene	1.124	1.184	31.590	30.0	5
	Carbazole	1.067	1.028	28.910	30.0	-4
	Methyl parathion	0.183	0.263	43.050	30.0	43
	Ronnel	0.275	0.240	26.260	30.0	-12
	Di-n-butylphthalate	1.219	1.331	32.770	30.0	9
	Parathion	0.128	0.172	40.450	30.0	35
*	Fluoranthene	1.221	1.146	28.160	30.0	-6*
	Benzidine	0.646	0.806	112.210	90.0	25
	Pyrene	1.250	1.403	33.680	30.0	12
	Butylbenzylphthalate	0.552	0.724	39.370	30.0	31
	3,3'-Dichlorobenzidine	0.423	0.440	31.260	30.0	4
	Benzo(a)anthracene	1.130	1.171	31.100	30.0	4
	Hexabromobenzene	0.032	0.013	12.430	30.0	-59
	4,4'-Methylenebis(2-Chloroanil	0.212	0.233	32.960	30.0	10
	Chrysene	1.115	1.184	31.880	30.0	6
	bis(2-Ethylhexyl)phthalate	0.763	0.984	38.700	30.0	29
	6-Methylchrysene	0.798	0.828	31.130	30.0	4
*	Di-n-octylphthalate	1.442	1.934	37.640	30.0	25*
	7,12-Dimethylbenz[a]anthracene	0.660	0.668	30.370	30.0	1
	Benzo(b)fluoranthene	1.343	1.337	29.850	30.0	0
	Benzo(k)fluoranthene	1.510	1.519	30.180	30.0	1
*	Benzo(a)pyrene	1.320	1.343	30.530	30.0	2*
	3-Methylcholanthrene	0.721	0.735	30.600	30.0	2
	Dibenz(a,h)acridine	0.989	1.084	32.870	30.0	10
	Dibenz(a,j)acridine	1.106	1.113	30.190	30.0	1
	Indeno(1,2,3-cd)pyrene	1.484	1.468	29.680	30.0	-1
	Dibenz(a,h)anthracene	1.189	1.151	29.060	30.0	-3
	Benzo(g,h,i)perylene	1.245	1.222	29.460	30.0	-2
	2-Fluorophenol	1.436	1.563	32.660	30.0	9
	Phenol-d5	1.951	2.211	33.990	30.0	13
	Phenol-d6	1.951	2.211	33.990	30.0	13
	Nitrobenzene-d5	0.390	0.444	34.150	30.0	14
	2-Fluorobiphenyl	1.259	1.275	30.380	30.0	1

9687

FORM VII SV-1

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/09/07 Time: 17:23

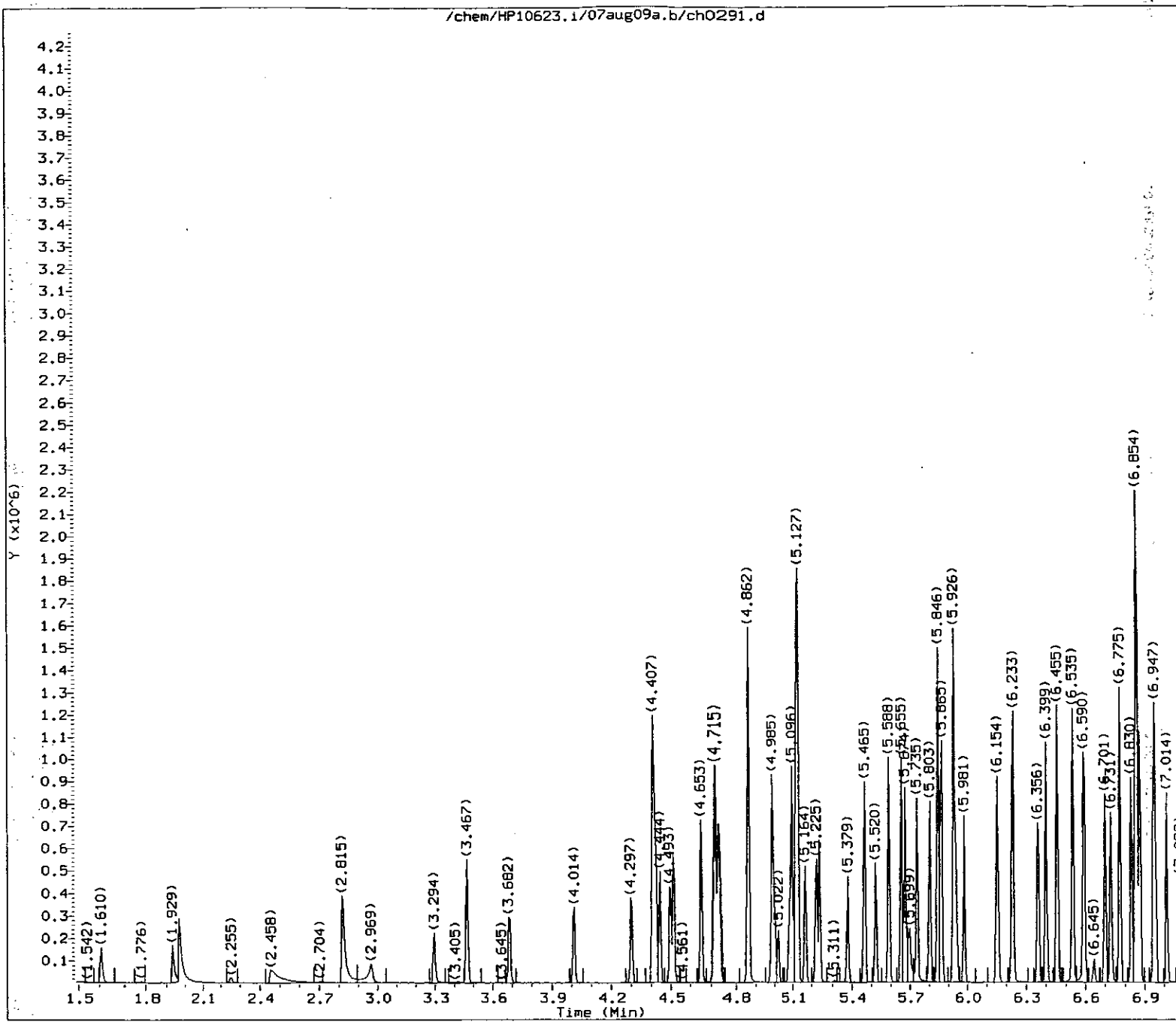
Lab File ID: ch0291.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
2,4,6-Tribromophenol	0.177	0.152	25.810	30.0	-14
Terphenyl-d14	0.823	0.853	31.080	30.0	4
			Average	%Drift:	11

0608



Quant Report

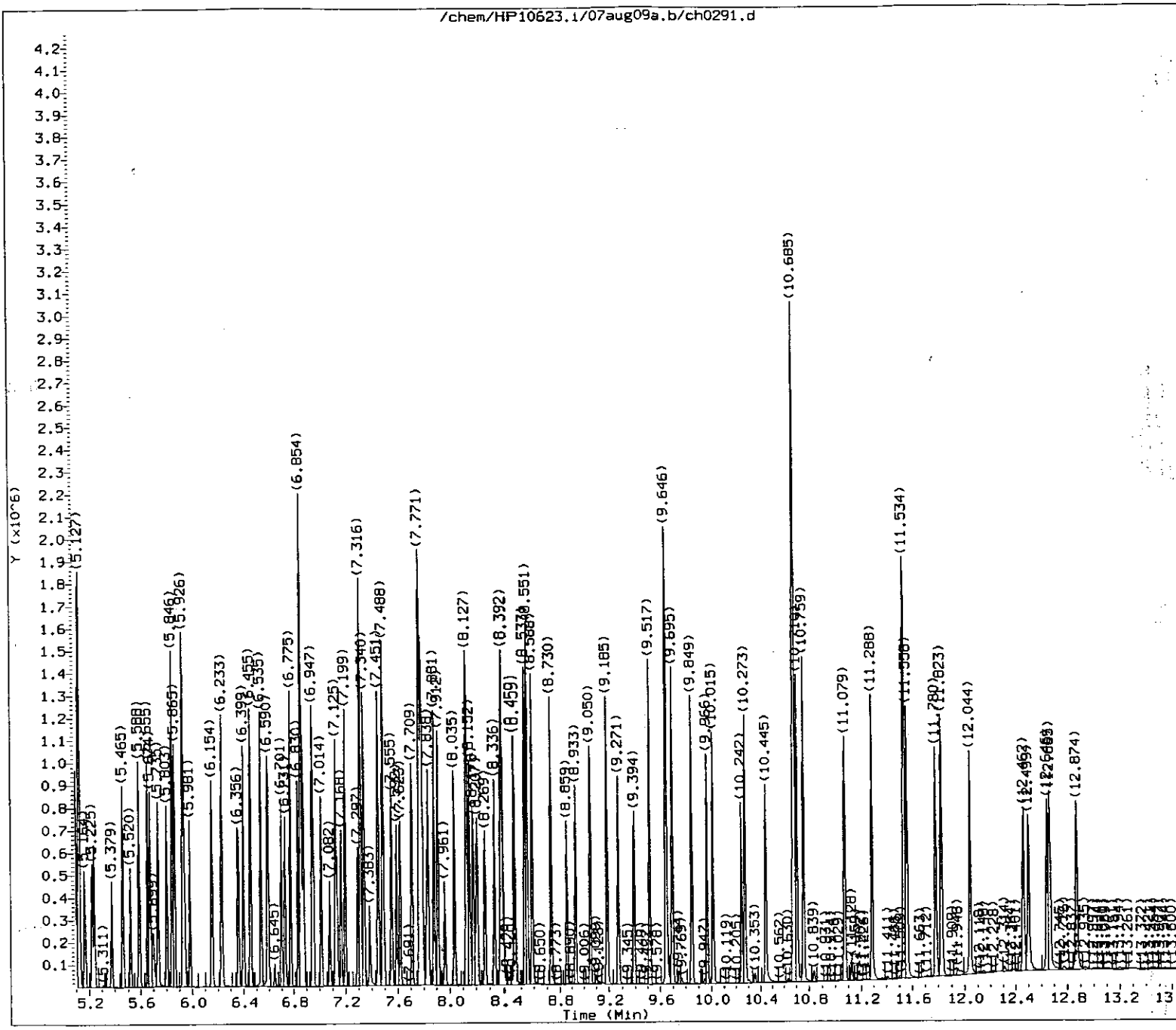
Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

8689



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

8618

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.610	88	49542	34.6385
2)	N-Nitrosodimethylamine	(1)	1.929	74	82151	35.9379
3)	Pyridine	(1)	1.966	79	145300	34.3910
5)	2-Picoline	(1)	2.821	93	145385	34.3729
15)	Phenol	(1)	4.426	94	193003	34.3729
16)	Aniline	(1)	4.407	93	213431	31.8737
18)	bis(2-Chloroethyl)ether	(1)	4.500	93	133805	33.0375
19)	2-Chlorophenol	(1)	4.512	128	118358	32.2880
20)	1,3-Dichlorobenzene	(1)	4.653	146	117519	30.6974
21)	1,4-Dichlorobenzene-d4	(1)	4.715	152	97089	40.0000
22)	1,4-Dichlorobenzene	(1)	4.727	146	122505	30.6939
23)	Benzyl alcohol	(1)	4.862	108	83929	31.6018
24)	1,2-Dichlorobenzene	(1)	4.862	146	116880	30.9537
25)	2-Methylphenol	(1)	4.985	108	122564	31.9929
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.991	45	169491	24.5584
27)	bis(2-Chloroisopropyl)ether	(1)	4.991	45	169491	24.5584
29)	Acetophenone	(1)	5.096	105	196217	34.2284
30)	N-Nitroso-di-n-propylamine	(1)	5.114	70	115923	34.9129
31)	4-Methylphenol	(1)	5.121	108	138459	32.2442
33)	o-Toluidine	(1)	5.127	106	220171	33.2847
34)	Hexachloroethane	(1)	5.164	117	47395	32.5466
36)	Nitrobenzene	(2)	5.237	77	159532	33.0432
38)	Isophorone	(2)	5.465	82	300268	32.1115
39)	2-Nitrophenol	(2)	5.520	139	58899	36.4525
40)	2,4-Dimethylphenol	(2)	5.588	107	146188	32.8113
42)	bis(2-Chloroethoxy)methane	(2)	5.674	93	163418	30.2375
43)	Benzoic acid	(2)	5.699	105	130800	49.4550
44)	2,4-Dichlorophenol	(2)	5.735	162	96828	27.7848
45)	1,2,4-Trichlorobenzene	(2)	5.803	180	102630	29.3401
46)	Naphthalene-d8	(2)	5.846	136	450360	40.0000
47)	Naphthalene	(2)	5.865	128	365172	29.7000
48)	4-Chloroaniline	(2)	5.926	127	154820	30.0706
49)	2,6-Dichlorophenol	(2)	5.926	162	92695	27.6286
51)	Hexachlorobutadiene	(2)	5.981	225	50972	26.0213
52)	Quinoline	(2)	6.154	129	237122	28.3974
53)	Caprolactam	(2)	6.233	113	43287	29.9489
55)	4-Chloro-3-methylphenol	(2)	6.363	107	127498	32.1005
58)	2-Methylnaphthalene	(2)	6.455	142	239146	28.9828
60)	1-Methylnaphthalene	(2)	6.535	142	235474	28.8144
61)	Hexachlorocyclopentadiene	(3)	6.590	237	46103	26.3489
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.596	216	92201	29.3908
64)	2,4,6-Trichlorophenol	(3)	6.701	196	66884	31.1486
65)	2,4,5-Trichlorophenol	(3)	6.731	196	78041	30.7671

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.854	154	306304	33.1101
69) Diphenyl	(3)	6.854	154	306304	33.1101
70) 1,1'-Biphenyl	(3)	6.854	154	306304	33.1101
71) 2-Chloronaphthalene	(3)	6.861	162	271928M	29.3474
72) 1-Chloronaphthalene	(3)	6.873	162	246428M	33.8719
73) Diphenyl ether	(3)	6.947	170	159708	30.4632
74) 2-Nitroaniline	(3)	6.953	138	81193	38.7183
77) Dimethylphthalate	(3)	7.125	163	264436	30.3953
79) 2,6-Dinitrotoluene	(3)	7.168	165	60082	33.3159
80) Acenaphthylene	(3)	7.199	152	375027	31.7957
81) 3-Nitroaniline	(3)	7.297	138	70222	35.0843
82) Acenaphthene-d10	(3)	7.316	164	262519	40.0000
83) Acenaphthene	(3)	7.340	153	235718	31.8571
84) 2,4-Dinitrophenol	(3)	7.383	184	33742M	53.4676
85) Pentachlorobenzene	(3)	7.451	250	84572	28.0070
86) 4-Nitrophenol	(3)	7.451	109	51282	35.9163
87) Dibenzofuran	(3)	7.488	168	324586	30.0431
88) 2,4-Dinitrotoluene	(3)	7.494	165	79236	34.5239
90) 1-Naphthylamine	(3)	7.555	143	217684	27.9328
91) 2,3,4,6-Tetrachlorophenol	(3)	7.592	232	51556	28.9959
92) 2-Naphthylamine	(3)	7.623	143	206602	26.1233
93) Diethylphthalate	(3)	7.709	149	275656	31.5162
94) Fluorene	(3)	7.764	166	260929	29.5313
96) 4-Chlorophenyl-phenylether	(3)	7.783	204	117381	28.7170
98) 4-Nitroaniline	(3)	7.795	138	73724	33.4717
99) 4,6-Dinitro-2-methylphenol	(4)	7.826	198	37108	37.5938
102) N-Nitrosodiphenylamine	(4)	7.881	169	195540	31.0155
103) 1,2-Diphenylhydrazine	(4)	7.912	77	343869	35.5299
108) Phorate	(4)	8.133	75	279503	50.8094
110) 4-Bromophenyl-phenylether	(4)	8.183	248	63992	27.9065
112) Hexachlorobenzene	(4)	8.207	284	64835	25.7210
116) Pentachlorophenol	(4)	8.379	266	56372	37.6420
120) Phenanthrene-d10	(4)	8.533	188	460008	40.0000
121) Phenanthrene	(4)	8.551	178	389618	31.0817
122) Dinoseb	(4)	8.545	211	48224	35.2796
124) Anthracene	(4)	8.588	178	408479	31.5893
125) Carbazole	(4)	8.730	167	354640	28.9145
126) Methyl parathion	(4)	8.859	109	90657	43.0484
127) Ronnel	(4)	8.933	285	82909	26.2645
128) Di-n-butylphthalate	(4)	9.056	149	459205	32.7684
129) Parathion	(4)	9.185	109	59368	40.4549
134) Fluoranthene	(4)	9.517	202	395422	28.1552
135) Benzidine	(5)	9.652	184	707413	112.2094

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

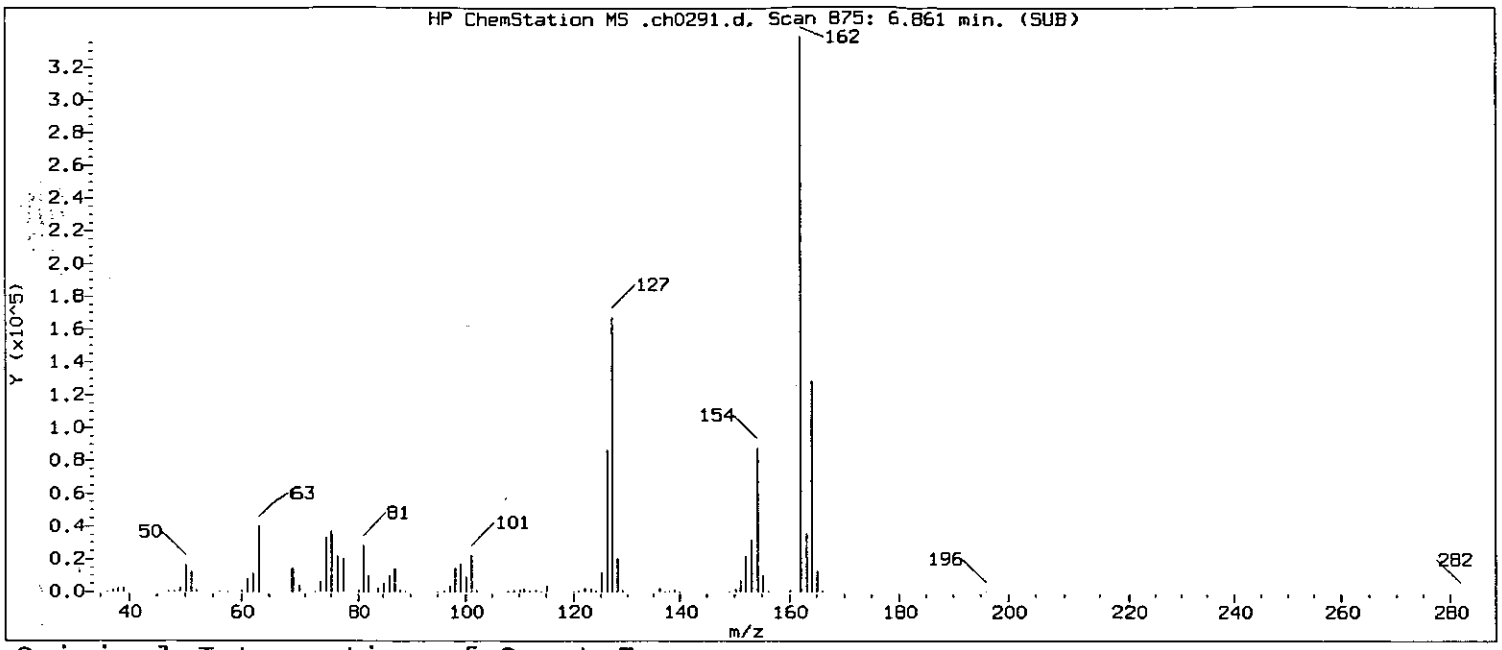
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

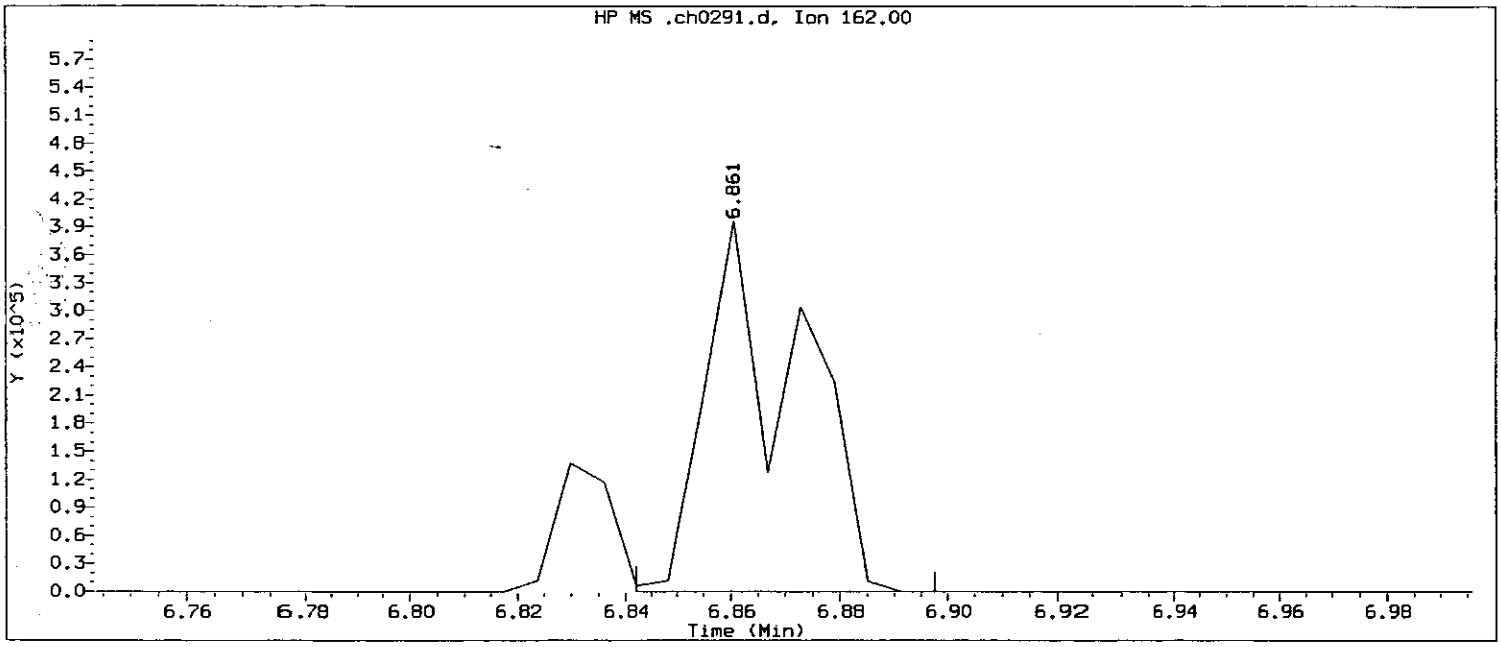
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136) Pyrene	(5)	9.695	202	410562	33.6795
143) Butylbenzylphthalate	(5)	10.273	149	211732	39.3652
145) 3,3'-Dichlorobenzidine	(5)	10.673	252	128812	31.2563
146) Benzo(a)anthracene	(5)	10.679	228	342520	31.0974
147) Hexabromobenzene	(5)	10.685	552	3936	12.4260
148) 4,4'-Methylenebis(2-Chloroanil	(5)	10.685	231	68050	32.9635
149) Chrysene-d12	(5)	10.685	240	390051	40.0000
150) Chrysene	(5)	10.710	228	346500	31.8778
151) bis(2-Ethylhexyl)phthalate	(5)	10.759	149	287800	38.6983
152) 6-Methylchrysene	(5)	11.079	242	242321	31.1349
156) Di-n-octylphthalate	(6)	11.288	149	467646	37.6396
157) 7,12-Dimethylbenz[a]anthracene	(6)	11.534	256	161576	30.3665
158) Benzo(b)fluoranthene	(6)	11.540	252	323283	29.8549
159) Benzo(k)fluoranthene	(6)	11.558	252	367265	30.1796
160) Benzo(a)pyrene	(6)	11.780	252	324825	30.5258
161) Perylene-d12	(6)	11.823	264	322417	40.0000
162) 3-Methylcholanthrene	(6)	12.044	268	177788	30.5953
166) Dibenz(a,h)acridine	(6)	12.462	279	262068	32.8667
167) Dibenz(a,j)acridine	(6)	12.499	279	269145	30.1891
168) Indeno(1,2,3-cd)pyrene	(6)	12.646	276	355078	29.6754
169) Dibenz(a,h)anthracene	(6)	12.665	278	278442M	29.0589
170) Benzo(g,h,i)perylene	(6)	12.874	276	295600	29.4627
9) 2-Fluorophenol	(1)	3.467	112	113791	32.6576
13) Phenol-d5	(1)	4.413	99	160965	33.9910
14) Phenol-d6	(1)	4.413	99	160965	33.9910
35) Nitrobenzene-d5	(2)	5.225	82	149925	34.1500
66) 2-Fluorobiphenyl	(3)	6.775	172	251016	30.3821
104) 2,4,6-Tribromophenol	(3)	7.967	330	29946	25.8104
138) Terphenyl-d14	(5)	9.849	244	249555	31.0830

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

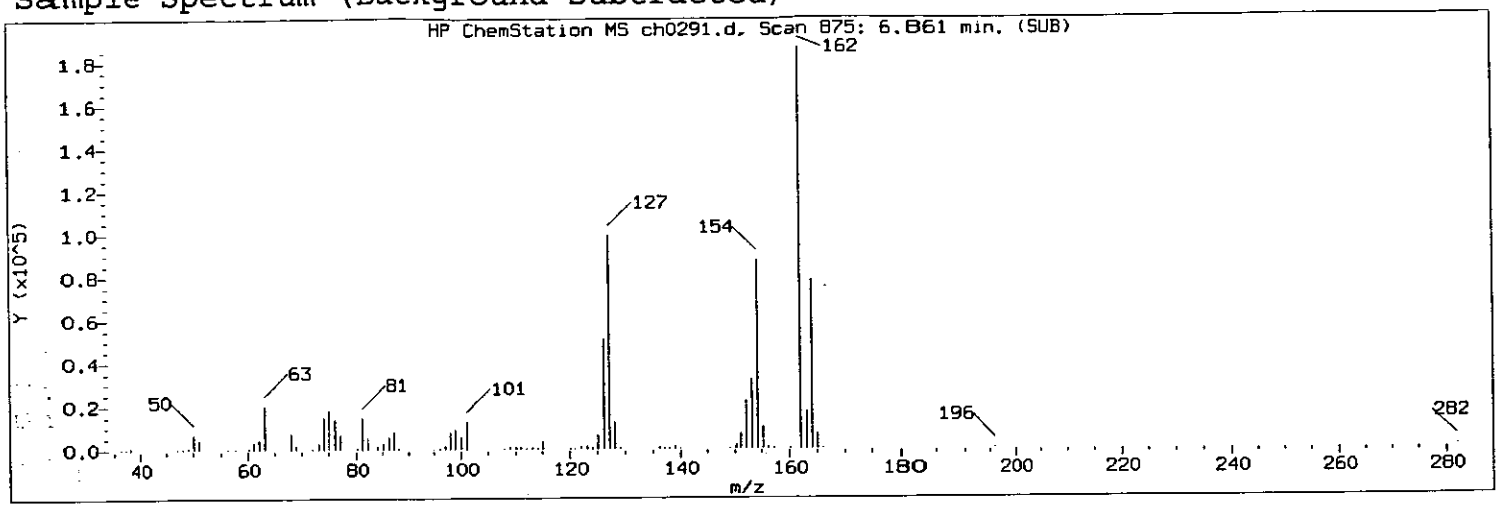
Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:37
Date, time and analyst ID of latest file update: 09-Aug-2007 17:37 Automation

Sample Name: SSTD030 Lab Sample ID: STD2057

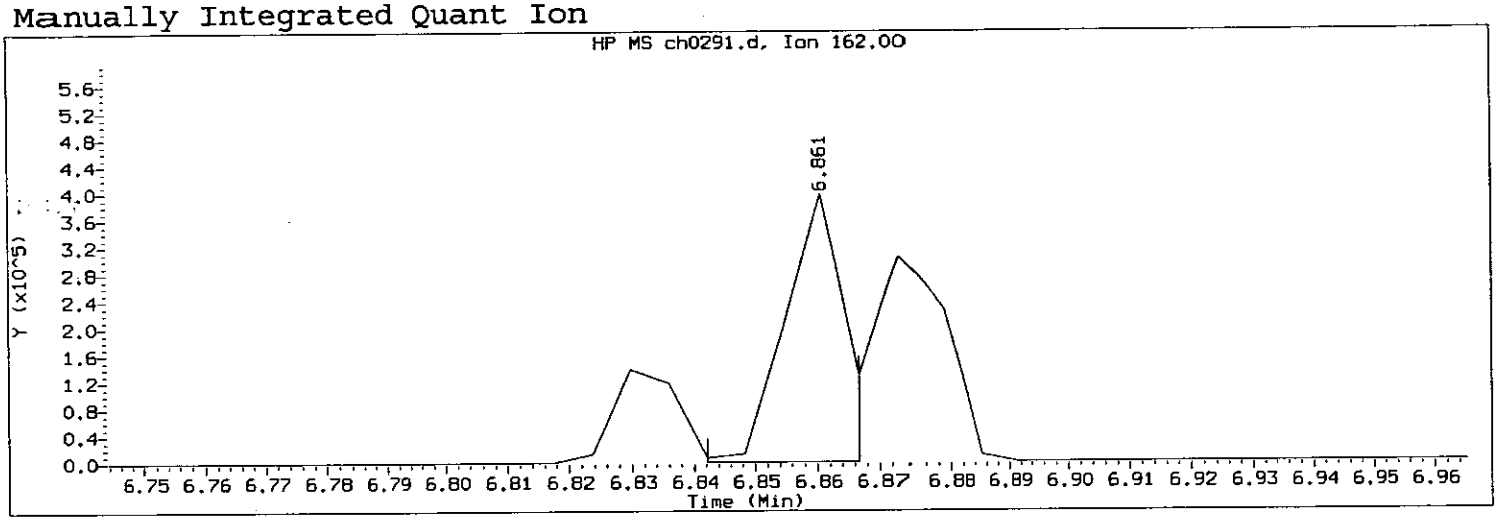
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 875
Retention Time (minutes): 6.861
Quant Ion : 162
Area : 469747
Concentration (ng/ul) : 50.6966
Integration start scan : 871 Integration stop scan: 880
Y at integration start : 0 Y at integration end: 0

8614

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

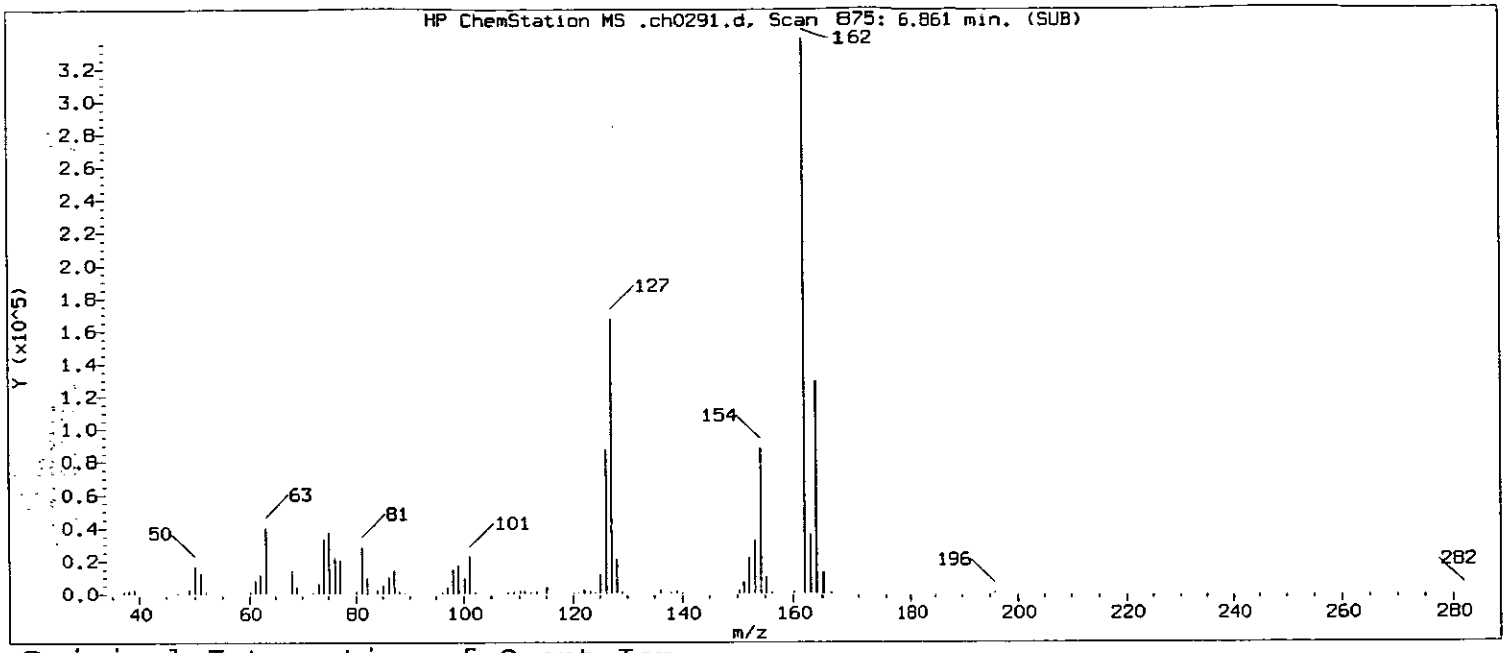
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 875
Retention Time (minutes): 6.861
Quant Ion : 162
Area (flag) : 271928 M
Concentration (ng/ul) : 29.3474
Integration start scan : 871 Integration stop scan: 875
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integratio

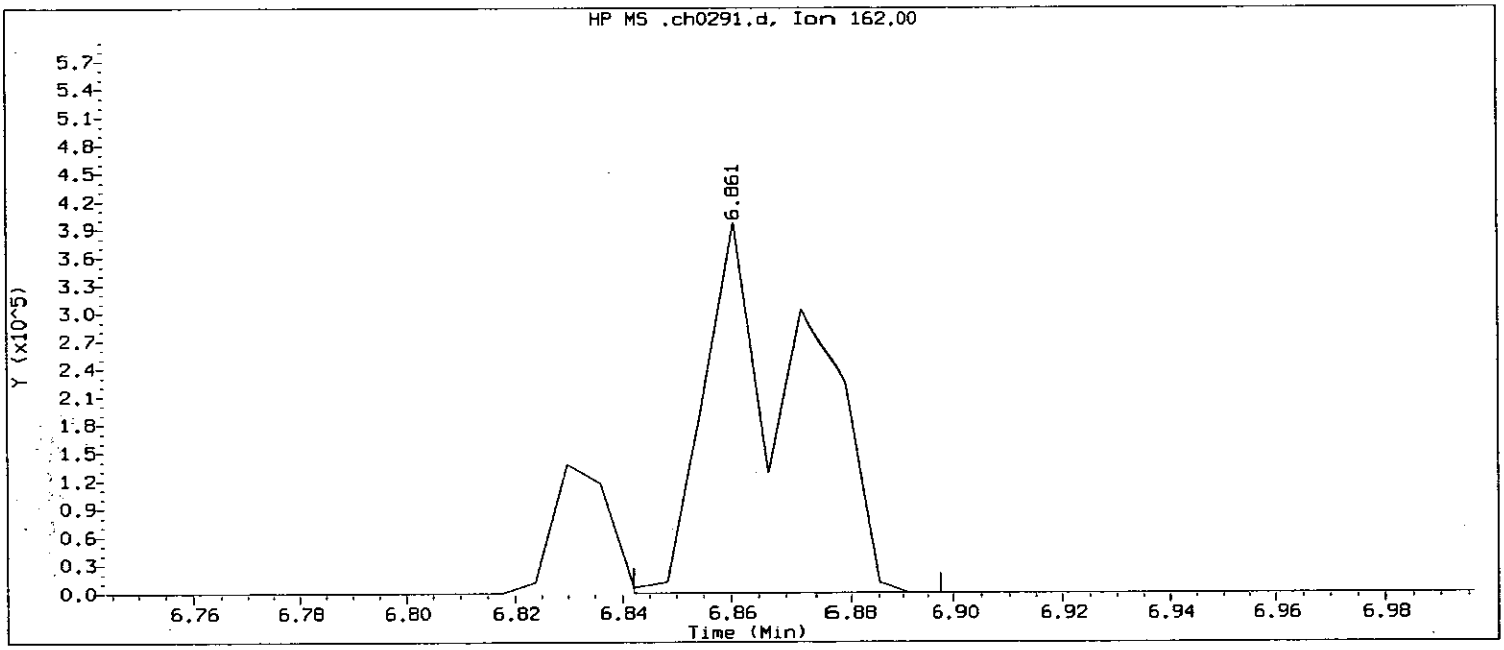
Analyst responsible for change: _____

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:37
Date, time and analyst ID of latest file update: 09-Aug-2007 17:37 Automation

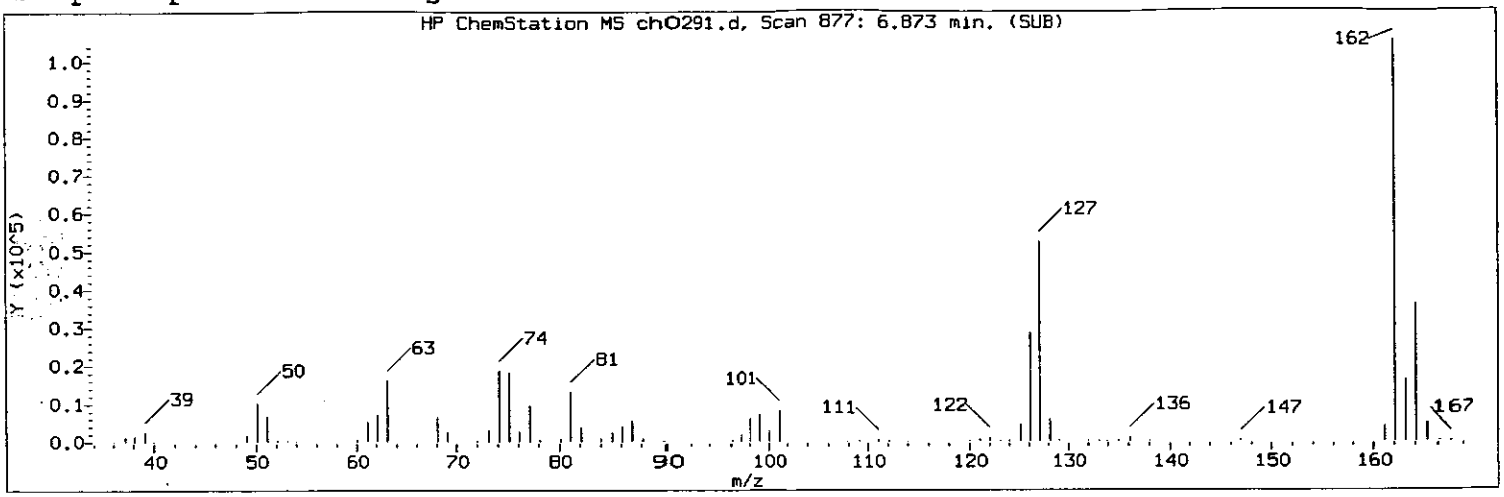
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 875
Retention Time (minutes): 6.861
Quant Ion : 162
Area : 469731
Concentration (ng/ul) : 64.5650
Integration start scan : 871 Integration stop scan: 880
Y at integration start : 0 Y at integration end: 0

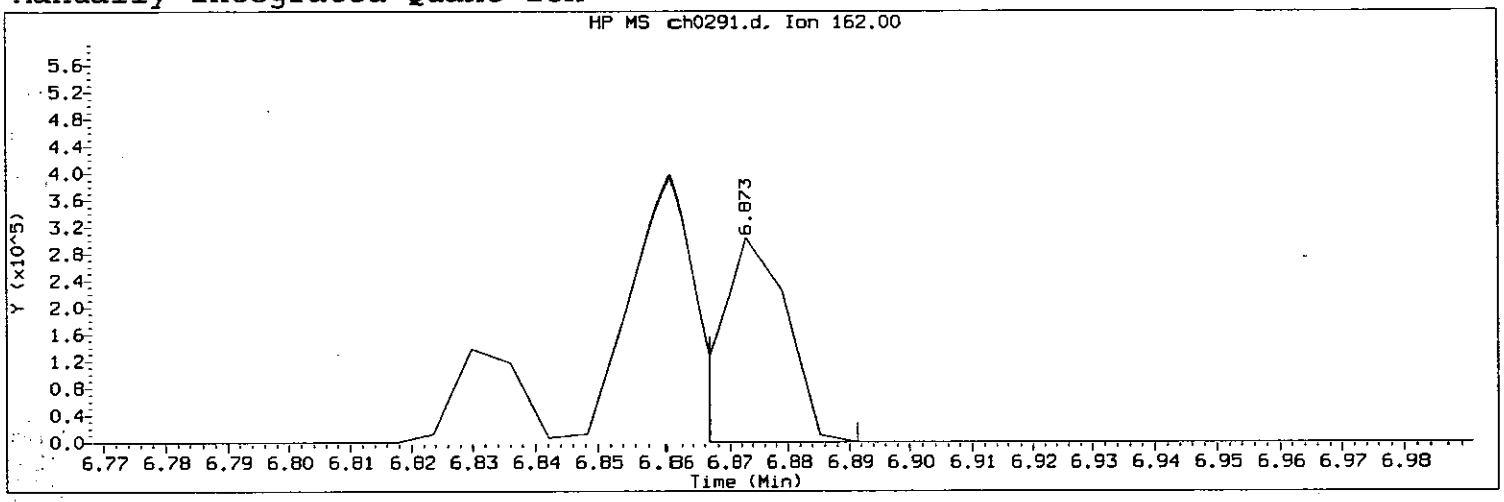
8616

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0291.d, generated on 08/09/2007 at 17:48

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

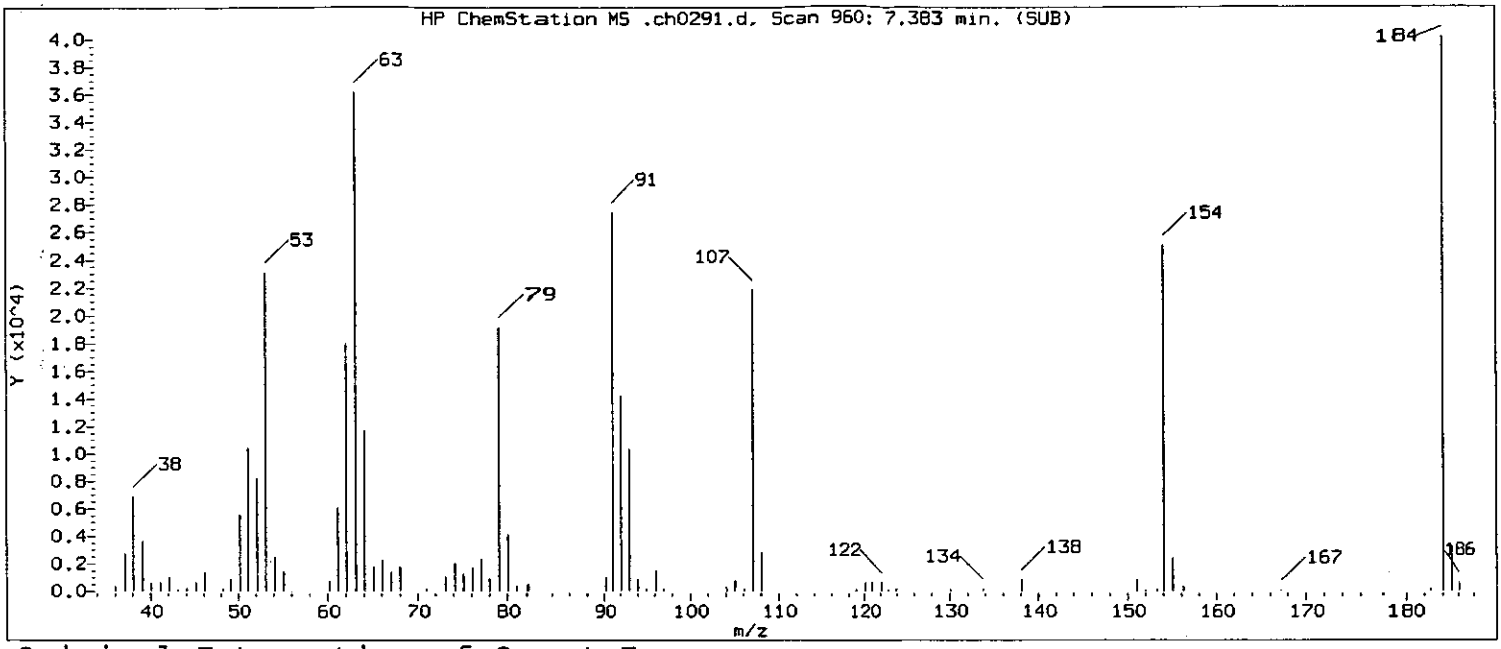
Compound Number	: 72		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 877		
Retention Time (minutes)	: 6.873		
Quant Ion	: 162		
Area (flag)	: 246428	M	
Concentration (ng/ul)	: 33.8719		
Integration start scan	: 875	Integration stop scan:	879
Y at integration start	: -206	Y at integration end:	-206

Reason for manual integration (circle one): missed peak improper integratio

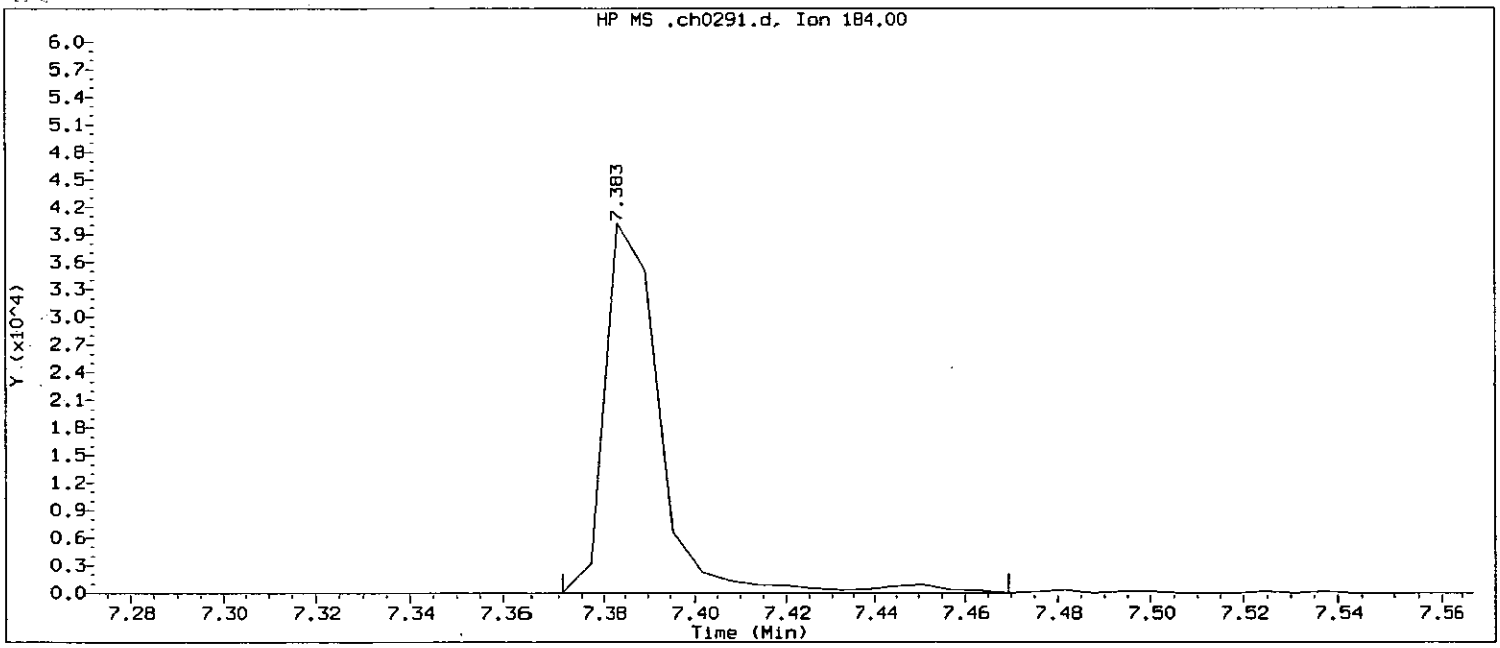
Analyst responsible for change: [signature] 8/9/07

GC/MS audit/management approval: [signature] 8/10/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:37
Date, time and analyst ID of latest file update: 09-Aug-2007 17:37 Automation

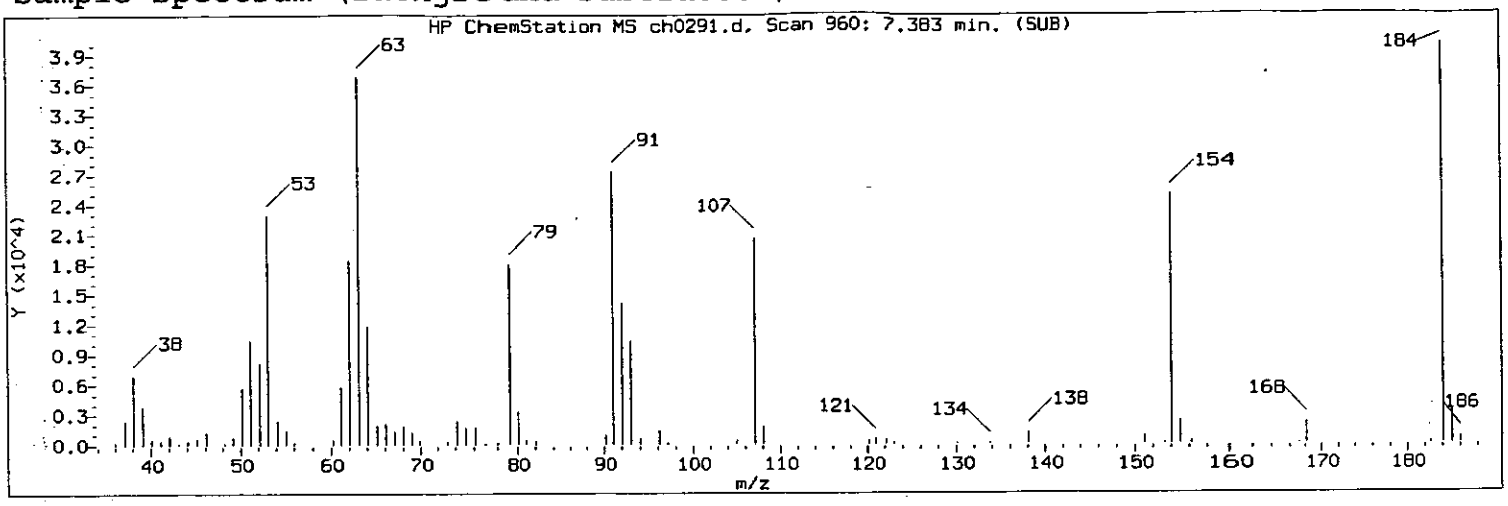
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 2,4-Dinitrophenol
Scan Number : 960
Retention Time (minutes): 7.383
Quant Ion : 184
Area : 34748
Concentration (ng/ul) : 54.6400
Integration start scan : 957 Integration stop scan: 973
Y at integration start : 0 Y at integration end: 0

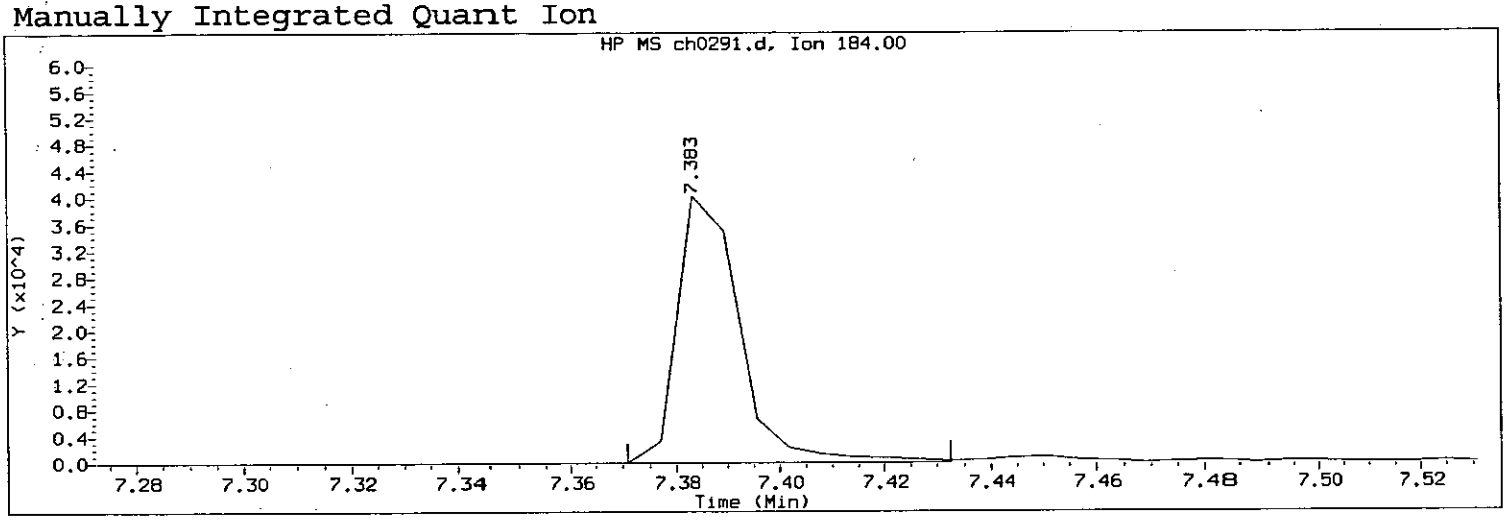
8618

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0291.d, generated on 08/09/2007 at 17:48

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

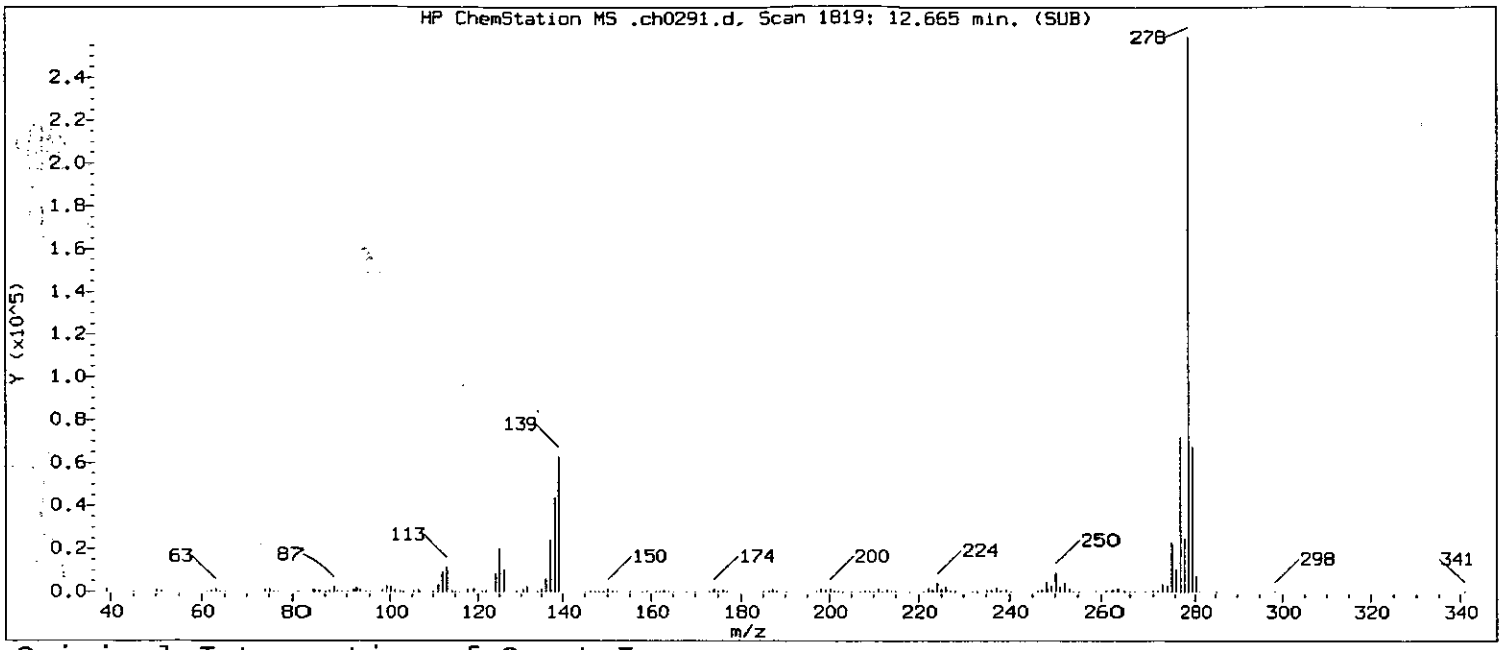
Compound Number : 84
Compound Name : 2,4-Dinitrophenol
Scan Number : 960
Retention Time (minutes): 7.383
Quant Ion : 184
Area (flag) : 33742 M
Concentration (ng/ul) : 53.4676
Integration start scan : 957 Integration stop scan: 967
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

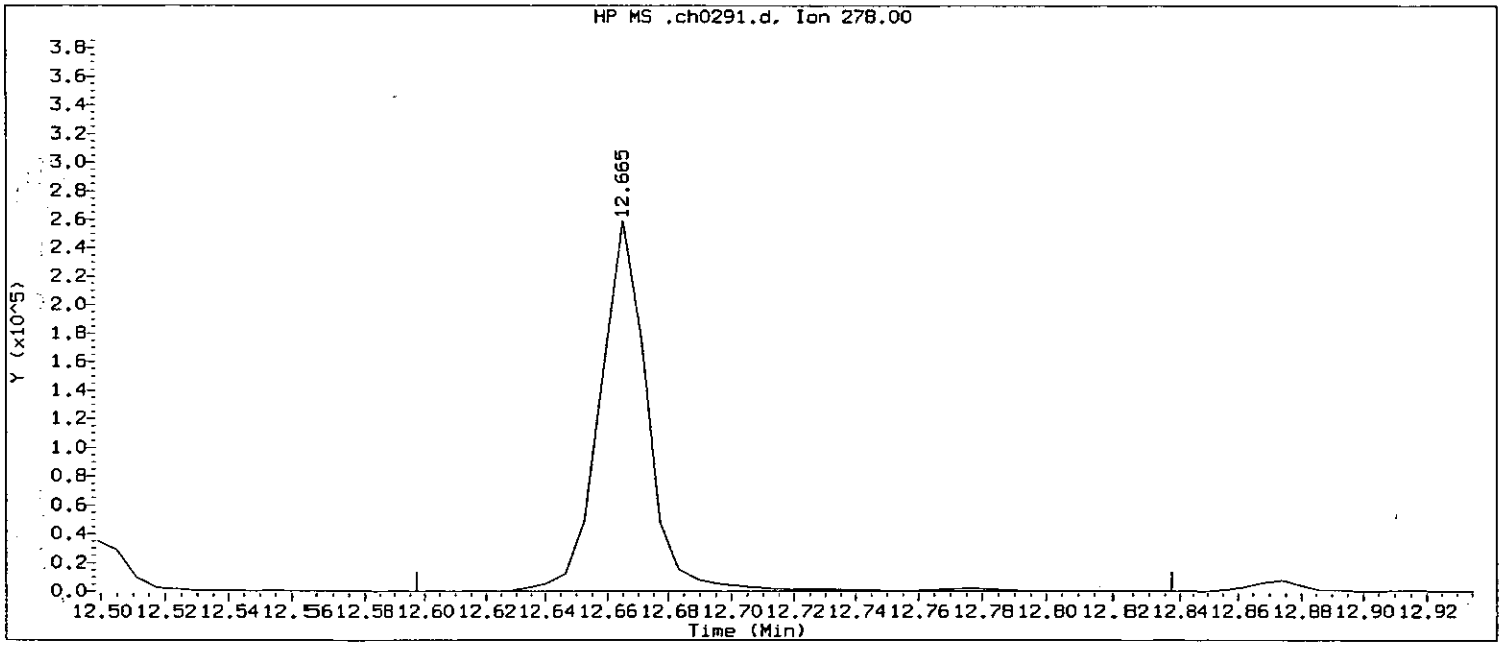
Analyst responsible for change: _____

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:37
Date, time and analyst ID of latest file update: 09-Aug-2007 17:37 Automation

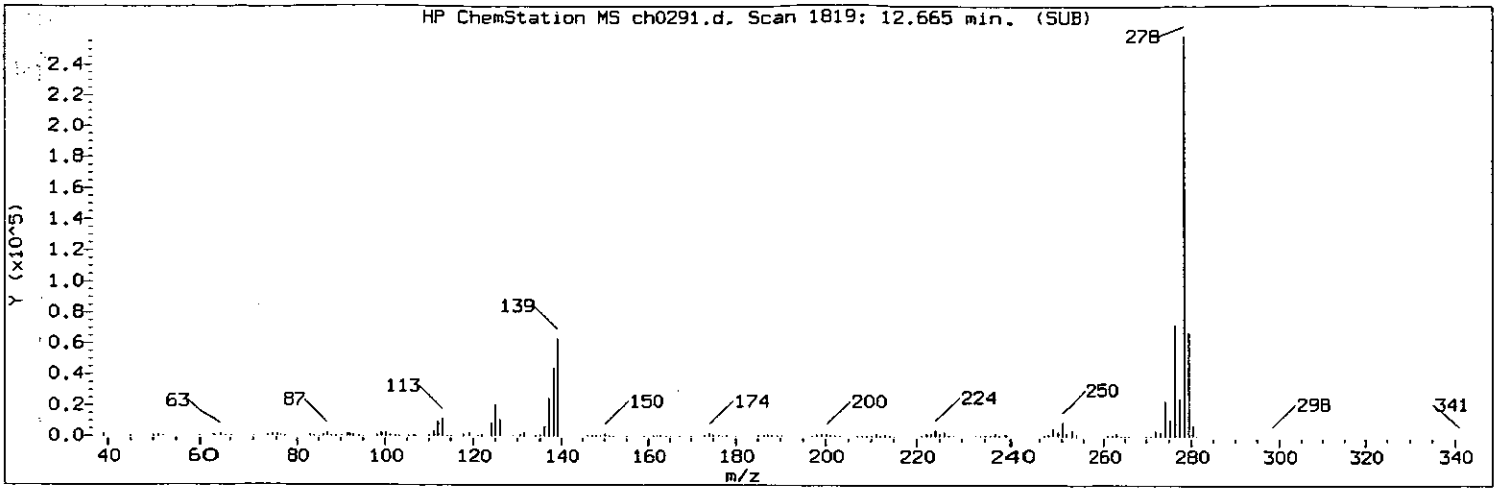
Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number : 169
Compound Name : Dibenz(a,h)anthracene
Scan Number : 1819
Retention Time (minutes): 12.665
Quant Ion : 278
Area : 282495
Concentration (ng/ul) : 29.4820
Integration start scan : 1807 Integration stop scan: 1846
Y at integration start : 0 Y at integration end: 0

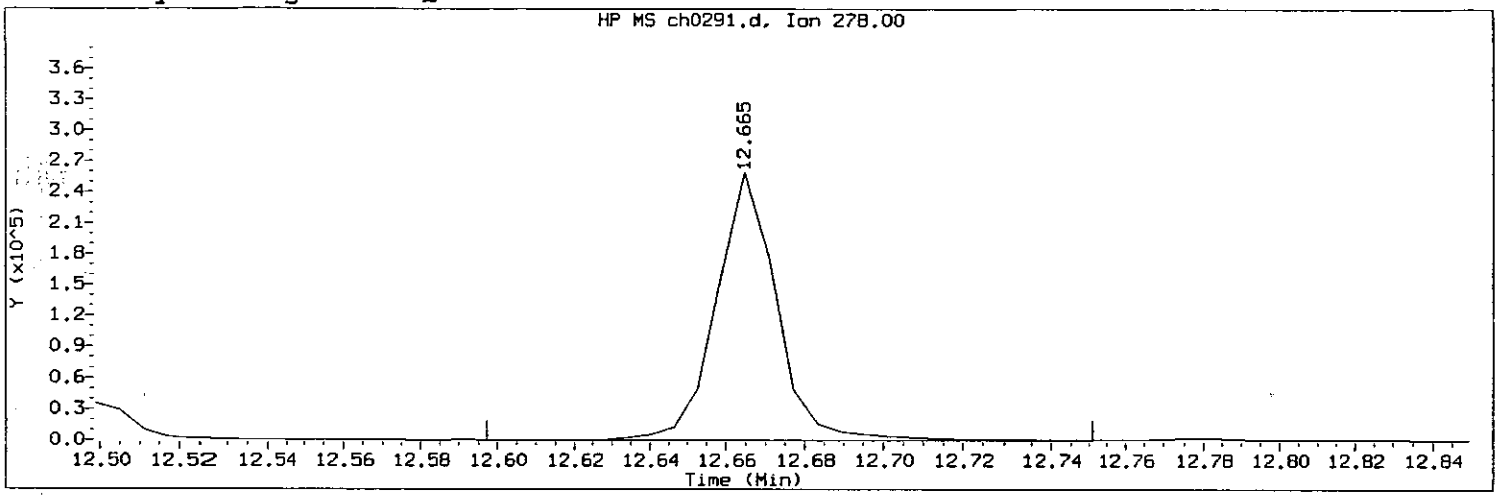
8620

Original Integration Report for data file /chem/HP10623.i/07aug09a.b/ch0291.d, generated on 08/09/2007 at 17:48

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug09a.b/ch0291.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:23 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: all1
Calibration date and time: 09-AUG-2007 17:43
Date, time and analyst ID of latest file update: 09-Aug-2007 17:48 fac01858

Sample Name: SSTD030 Lab Sample ID: STD2057

Compound Number	:	169
Compound Name	:	Dibenz(a,h)anthracene
Scan Number	:	1819
Retention Time (minutes)	:	12.665
Quant Ion	:	278
Area (flag)	:	278442 M
Concentration (ng/ul)	:	29.0589
Integration start scan	:	1807 Integration stop scan: 1832
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 8/10/07

GC/MS audit/management approval: [signature] 8/10/07

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/12/07 Time: 16:52

Lab File ID: ch0331.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.589	0.687	58.280	50.0	17
	N-Nitrosodimethylamine	0.942	1.094	58.060	50.0	16
	Pyridine	1.741	1.902	54.640	50.0	9
	2-Picoline	1.743	1.999	57.370	50.0	15
*	Phenol	2.313	2.403	51.940	50.0	4*
	Aniline	2.759	3.028	54.880	50.0	10
	bis(2-Chloroethyl)ether	1.669	1.781	53.370	50.0	7
	2-Chlorophenol	1.510	1.621	53.670	50.0	7
	1,3-Dichlorobenzene	1.577	1.703	53.980	50.0	8
*	1,4-Dichlorobenzene	1.644	1.719	52.280	50.0	5*
	Benzyl alcohol	1.094	1.162	53.120	50.0	6
	1,2-Dichlorobenzene	1.556	1.627	52.280	50.0	5
	2-Methylphenol	1.578	1.732	54.870	50.0	10
	2,2'-oxybis(1-Chloropropane)	2.843	2.344	41.210	50.0	-18
	bis(2-Chloroisopropyl)ether	2.843	2.344	41.210	50.0	-18
	Acetophenone	2.362	2.614	55.340	50.0	11
#	N-Nitroso-di-n-propylamine	1.368	1.635	59.760	50.0	20#
	4-Methylphenol	1.769	1.928	54.490	50.0	9
	o-Toluidine	2.725	3.054	56.030	50.0	12
	Hexachloroethane	0.600	0.673	56.100	50.0	12
	Nitrobenzene	0.429	0.502	58.480	50.0	17
	Isophorone	0.831	0.939	56.530	50.0	13
*	2-Nitrophenol	0.144	0.192	66.880	50.0	34*
	2,4-Dimethylphenol	0.396	0.466	58.930	50.0	18
	bis(2-Chloroethoxy)methane	0.480	0.160	16.640	50.0	-67
	Benzoic acid	0.214	0.257	53.540	50.0	7
*	2,4-Dichlorophenol	0.310	0.310	50.110	50.0	0*
	1,2,4-Trichlorobenzene	0.311	0.308	49.550	50.0	-1
	Naphthalene	1.092	1.146	52.480	50.0	5
	4-Chloroaniline	0.457	0.465	50.790	50.0	2
	2,6-Dichlorophenol	0.298	0.297	49.830	50.0	0
*	Hexachlorobutadiene	0.174	0.155	44.540	50.0	-11*
	Quinoline	0.742	0.767	51.690	50.0	3
	Caprolactam	0.128	0.145	56.510	50.0	13
*	4-Chloro-3-methylphenol	0.353	0.421	59.630	50.0	19*
	2-Methylnaphthalene	0.733	0.748	51.020	50.0	2

#822

FORM VII SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/12/07 Time: 16:52

Lab File ID: ch0331.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1-Methylnaphthalene	0.726	0.747	51.480	50.0	3
#	Hexachlorocyclopentadiene	0.267	0.229	43.030	50.0	-14#
	1,2,4,5-Tetrachlorobenzene	0.478	0.440	46.040	50.0	-8
*	2,4,6-Trichlorophenol	0.327	0.349	53.330	50.0	7*
	2,4,5-Trichlorophenol	0.387	0.392	50.740	50.0	1
	Biphenyl	1.410	1.512	53.630	50.0	7
	Diphenyl	1.410	1.512	53.630	50.0	7
	1,1'-Biphenyl	1.410	1.512	53.630	50.0	7
	2-Chloronaphthalene	1.412	1.453	51.450	50.0	3
	1-Chloronaphthalene	1.109	1.119	50.460	50.0	1
	Diphenyl ether	0.799	0.793	49.630	50.0	-1
	2-Nitroaniline	0.319	0.417	65.260	50.0	31
	Dimethylphthalate	1.326	1.374	51.840	50.0	4
	2,6-Dinitrotoluene	0.275	0.314	57.120	50.0	14
	Acenaphthylene	1.797	1.983	55.170	50.0	10
	3-Nitroaniline	0.305	0.377	61.800	50.0	24
*	Acenaphthene	1.127	1.205	53.440	50.0	7*
#	2,4-Dinitrophenol	0.084	0.150	71.510	50.0	43#
	Pentachlorobenzene	0.460	0.412	44.820	50.0	-10
#	4-Nitrophenol	0.207	0.254	56.100	50.0	12#
	Dibenzofuran	1.646	1.660	50.420	50.0	1
	2,4-Dinitrotoluene	0.350	0.416	59.430	50.0	19
	1-Naphthylamine	1.187	1.254	52.810	50.0	6
	2,3,4,6-Tetrachlorophenol	0.271	0.260	47.960	50.0	-4
	2-Naphthylamine	1.205	1.289	53.480	50.0	7
	Diethylphthalate	1.333	1.436	53.860	50.0	8
	Fluorene	1.346	1.354	50.300	50.0	1
	4-Chlorophenyl-phenylether	0.623	0.587	47.140	50.0	-6
	4-Nitroaniline	0.336	0.396	59.020	50.0	18
	4,6-Dinitro-2-methylphenol	0.078	0.122	63.300	50.0	27
*	N-Nitrosodiphenylamine (1)	0.548	0.550	50.170	50.0	0*
	1,2-Diphenylhydrazine	0.842	0.999	59.380	50.0	19
	Phorate	0.478	0.851	88.930	50.0	78
	4-Bromophenyl-phenylether	0.199	0.165	41.400	50.0	-17
	Hexachlorobenzene	0.219	0.178	40.610	50.0	-19
*	Pentachlorophenol	0.130	0.112	42.810	50.0	-14

(1) Cannot be Separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/12/07 Time: 16:52

Lab File ID: ch0331.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Phenanthrene	1.090	1.103	50.570	50.0	1
	Dinoseb	0.105	0.147	55.460	50.0	11
	Anthracene	1.124	1.166	51.830	50.0	4
	Carbazole	1.067	1.062	49.790	50.0	0
	Methyl parathion	0.183	0.265	72.310	50.0	45
	Ronnel	0.275	0.220	40.120	50.0	-20
	Di-n-butylphthalate	1.219	1.382	56.710	50.0	13
	Parathion	0.128	0.183	71.740	50.0	43
*	Fluoranthene	1.221	1.143	46.810	50.0	-6*
	Benzidine	0.646	0.880	204.290	150.0	36
	Pyrene	1.250	1.435	57.380	50.0	15
	Butylbenzylphthalate	0.552	0.792	71.800	50.0	44
	3,3'-Dichlorobenzidine	0.423	0.484	57.270	50.0	15
	Benzo(a)anthracene	1.130	1.230	54.430	50.0	9
	Hexabromobenzene	0.032	0.013	20.320	50.0	-59
	4,4'-Methylenebis(2-Chloroanil	0.212	0.246	57.990	50.0	16
	Chrysene	1.115	1.202	53.930	50.0	8
	bis(2-Ethylhexyl)phthalate	0.763	1.097	71.910	50.0	44
	6-Methylchrysene	0.798	0.896	56.140	50.0	12
*	Di-n-octylphthalate	1.442	2.209	70.120	50.0	40*
	7,12-Dimethylbenz[a]anthracene	0.660	0.694	52.580	50.0	5
	Benzo(b)fluoranthene	1.343	1.402	52.180	50.0	4
	Benzo(k)fluoranthene	1.510	1.567	51.910	50.0	4
*	Benzo(a)pyrene	1.320	1.353	51.250	50.0	2*
	3-Methylcholanthrene	0.721	0.776	53.820	50.0	8
	Dibenz(a,h)acridine	0.989	1.165	58.900	50.0	18
	Dibenz(a,j)acridine	1.106	1.127	50.960	50.0	2
	Indeno(1,2,3-cd)pyrene	1.484	1.511	50.900	50.0	2
	Dibenz(a,h)anthracene	1.189	1.184	49.810	50.0	0
	Benzo(g,h,i)perylene	1.245	1.238	49.720	50.0	-1
	2-Fluorophenol	1.436	1.580	55.020	50.0	10
	Phenol-d5	1.951	2.273	58.250	50.0	16
	Phenol-d6	1.951	2.273	58.250	50.0	16
	Nitrobenzene-d5	0.390	0.494	63.410	50.0	27
	2-Fluorobiphenyl	1.259	1.271	50.470	50.0	1

8624

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/12/07 Time: 16:52

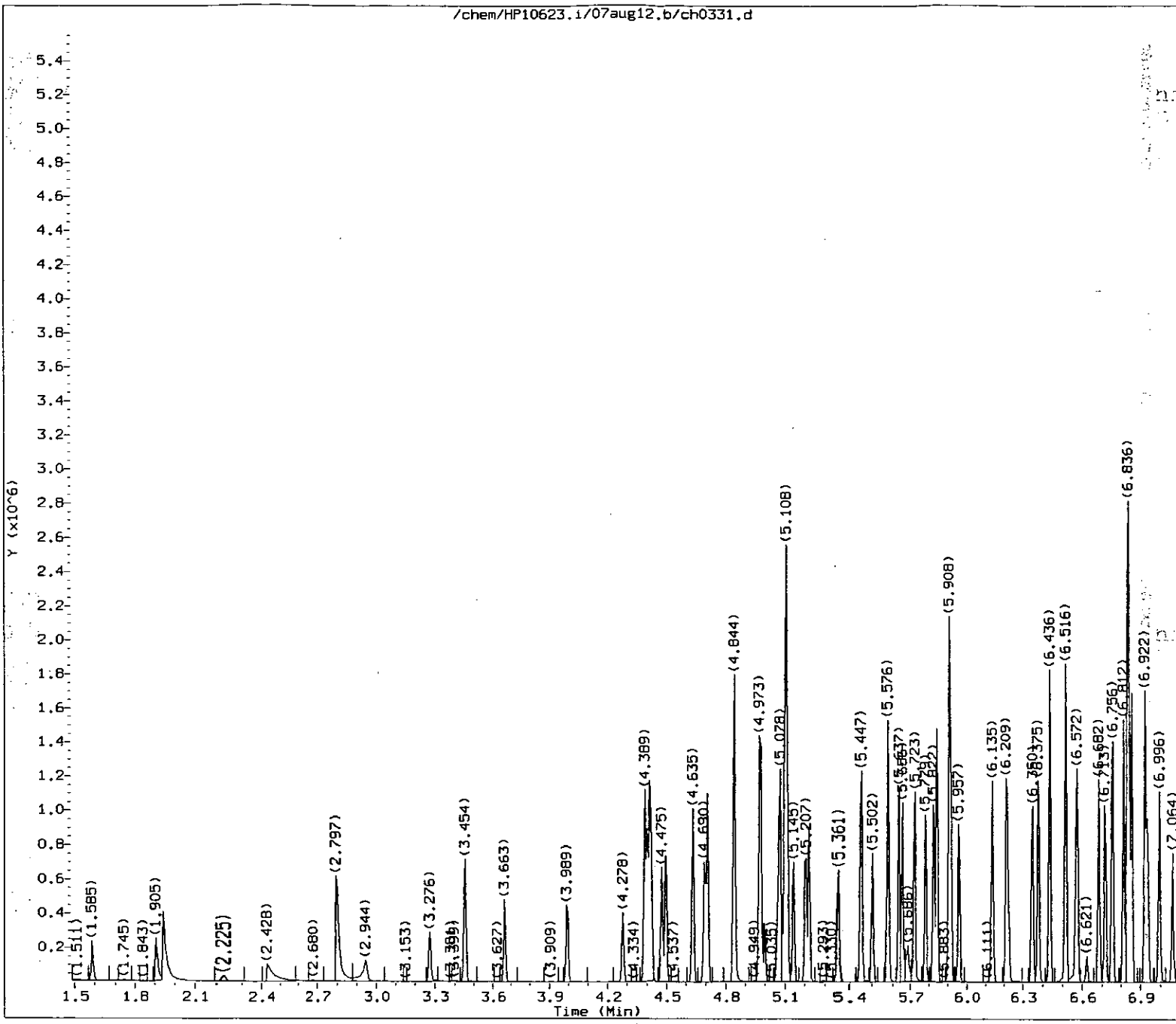
Lab File ID: ch0331.d Init. Calib. Date(s): 08/05/07 08/05/07

Init. Calib. Times(s): 06:33 08:15

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
2,4,6-Tribromophenol	0.177	0.141	39.930	50.0	-20
Terphenyl-d14	0.823	0.866	52.610	50.0	5
				Average %Drift:	13

8625



Quant Report

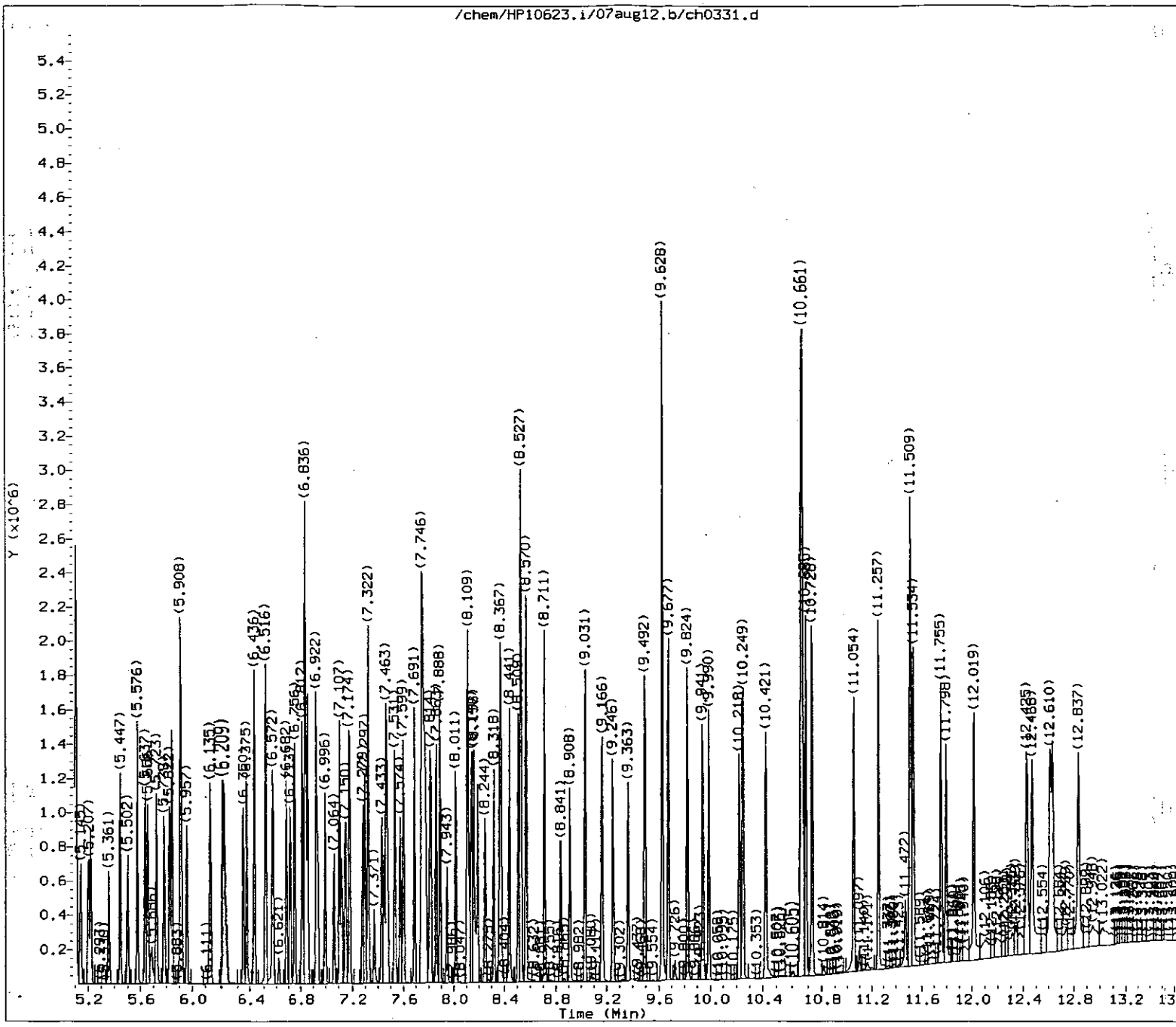
Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

9626



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

8627

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.585	88	69158	58.2824
2)	N-Nitrosodimethylamine	(1)	1.905	74	110102	58.0557
3)	Pyridine	(1)	1.942	79	191513M	54.6370
5)	2-Picoline	(1)	2.797	93	201320	57.3712
15)	Phenol	(1)	4.414	94	241956 A	51.9396
16)	Aniline	(1)	4.389	93	304887	54.8813
18)	bis(2-Chloroethyl)ether	(1)	4.475	93	179319	53.3667
19)	2-Chlorophenol	(1)	4.500	128	163212	53.6668
20)	1,3-Dichlorobenzene	(1)	4.635	146	171452	53.9817
21)	1,4-Dichlorobenzene-d4	(1)	4.690	152	80549	40.0000
22)	1,4-Dichlorobenzene	(1)	4.709	146	173121	52.2827
23)	Benzyl alcohol	(1)	4.844	108	117038	53.1173
24)	1,2-Dichlorobenzene	(1)	4.838	146	163788	52.2834
25)	2-Methylphenol	(1)	4.973	108	174407	54.8738
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.979	45	235973	41.2121
27)	bis(2-Chloroisopropyl)ether	(1)	4.979	45	235973	41.2121
29)	Acetophenone	(1)	5.078	105	263209	55.3427
30)	N-Nitroso-di-n-propylamine	(1)	5.096	70	164626	59.7619
31)	4-Methylphenol	(1)	5.115	108	194140	54.4948
33)	o-Toluidine	(1)	5.108	106	307461	56.0253
34)	Hexachloroethane	(1)	5.145	117	67773	56.0971
36)	Nitrobenzene	(2)	5.219	77	224376	58.4847
38)	Isophorone	(2)	5.447	82	420047	56.5302
39)	2-Nitrophenol	(2)	5.502	139	85876	66.8840
40)	2,4-Dimethylphenol	(2)	5.576	107	208628	58.9271
42)	bis(2-Chloroethoxy)methane	(2)	5.637	93	71456	16.6386
43)	Benzoic acid	(2)	5.686	105	115120	53.5360
44)	2,4-Dichlorophenol	(2)	5.723	162	138769	50.1106
45)	1,2,4-Trichlorobenzene	(2)	5.785	180	137743	49.5549
46)	Naphthalene-d8	(2)	5.822	136	357873	40.0000
47)	Naphthalene	(2)	5.840	128	512737	52.4789
48)	4-Chloroaniline	(2)	5.908	127	207806	50.7929
49)	2,6-Dichlorophenol	(2)	5.914	162	132841	49.8272
51)	Hexachlorobutadiene	(2)	5.957	225	69324	44.5360
52)	Quinoline	(2)	6.135	129	342983	51.6904
53)	Caprolactam	(2)	6.221	113	64901	56.5074
55)	4-Chloro-3-methylphenol	(2)	6.350	107	188203	59.6300
58)	2-Methylnaphthalene	(2)	6.436	142	334508	51.0170
60)	1-Methylnaphthalene	(2)	6.516	142	334280	51.4763
61)	Hexachlorocyclopentadiene	(3)	6.566	237	63225	43.0260
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.578	216	121293	46.0385
64)	2,4,6-Trichlorophenol	(3)	6.682	196	96175	53.3320
65)	2,4,5-Trichlorophenol	(3)	6.713	196	108096	50.7437

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68) Biphenyl	(3)	6.830	154	416667	53.6298
69) Diphenyl	(3)	6.830	154	416667	53.6298
70) 1,1'-Biphenyl	(3)	6.830	154	416667	53.6298
71) 2-Chloronaphthalene	(3)	6.842	162	400403M	51.4544
72) 1-Chloronaphthalene	(3)	6.855	162	308340M	50.4647
73) Diphenyl ether	(3)	6.922	170	218507	49.6276
74) 2-Nitroaniline	(3)	6.935	138	114935	65.2618
77) Dimethylphthalate	(3)	7.107	163	378730	51.8352
79) 2,6-Dinitrotoluene	(3)	7.150	165	86513	57.1212
80) Acenaphthylene	(3)	7.181	152	546488	55.1691
81) 3-Nitroaniline	(3)	7.279	138	103880	61.7989
82) Acenaphthene-d10	(3)	7.297	164	220471	40.0000
83) Acenaphthene	(3)	7.322	153	332069	53.4380
84) 2,4-Dinitrophenol	(3)	7.371	184	41347	71.5142
85) Pentachlorobenzene	(3)	7.433	250	113668	44.8216
86) 4-Nitrophenol	(3)	7.445	109	69891 A	56.0990
87) Dibenzofuran	(3)	7.463	168	457507	50.4223
88) 2,4-Dinitrotoluene	(3)	7.476	165	114549	59.4290
90) 1-Naphthylamine	(3)	7.531	143	345644	52.8111
91) 2,3,4,6-Tetrachlorophenol	(3)	7.574	232	71619	47.9617
92) 2-Naphthylamine	(3)	7.599	143	355240	53.4842
93) Diethylphthalate	(3)	7.691	149	395655	53.8633
94) Fluorene	(3)	7.746	166	373237	50.2983
96) 4-Chlorophenyl-phenylether	(3)	7.758	204	161824	47.1404
98) 4-Nitroaniline	(3)	7.777	138	109177	59.0213
99) 4,6-Dinitro-2-methylphenol	(4)	7.808	198	60402	63.2977
102) N-Nitrosodiphenylamine	(4)	7.863	169	272483	50.1668
103) 1,2-Diphenylhydrazine	(4)	7.888	77	495106	59.3790
108) Phorate	(4)	8.109	75	421463	88.9305
110) 4-Bromophenyl-phenylether	(4)	8.158	248	81788	41.4002
112) Hexachlorobenzene	(4)	8.189	284	88191	40.6102
116) Pentachlorophenol	(4)	8.361	266	55237	42.8128
120) Phenanthrene-d10	(4)	8.509	188	396307	40.0000
121) Phenanthrene	(4)	8.527	178	546167	50.5737
122) Dinoseb	(4)	8.527	211	72989	55.4551
124) Anthracene	(4)	8.570	178	577431	51.8326
125) Carbazole	(4)	8.711	167	526089	49.7875
126) Methyl parathion	(4)	8.834	109	131201	72.3147
127) Ronnel	(4)	8.908	285	109121	40.1244
128) Di-n-butylphthalate	(4)	9.031	149	684710	56.7139
129) Parathion	(4)	9.160	109	90696	71.7366
134) Fluoranthene	(4)	9.492	202	566389	46.8108
135) Benzidine	(5)	9.628	184	1066935	204.2852

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

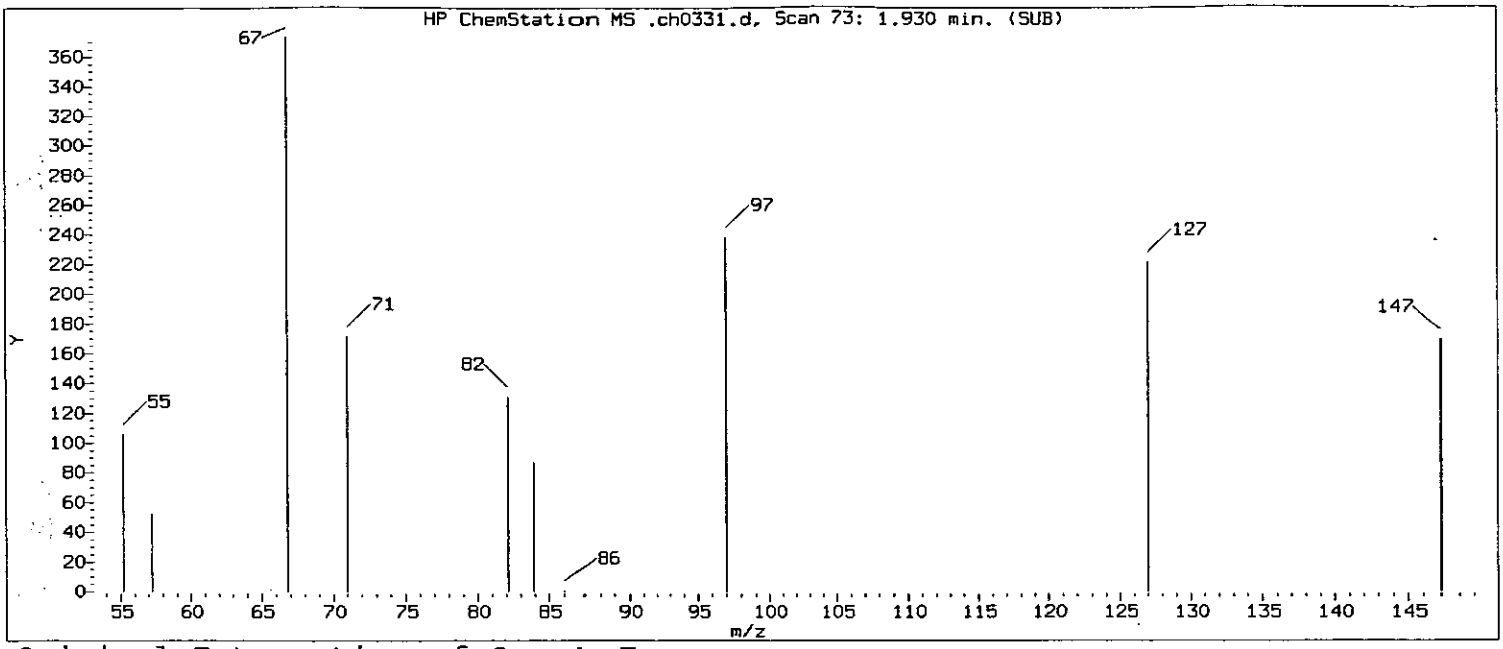
Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

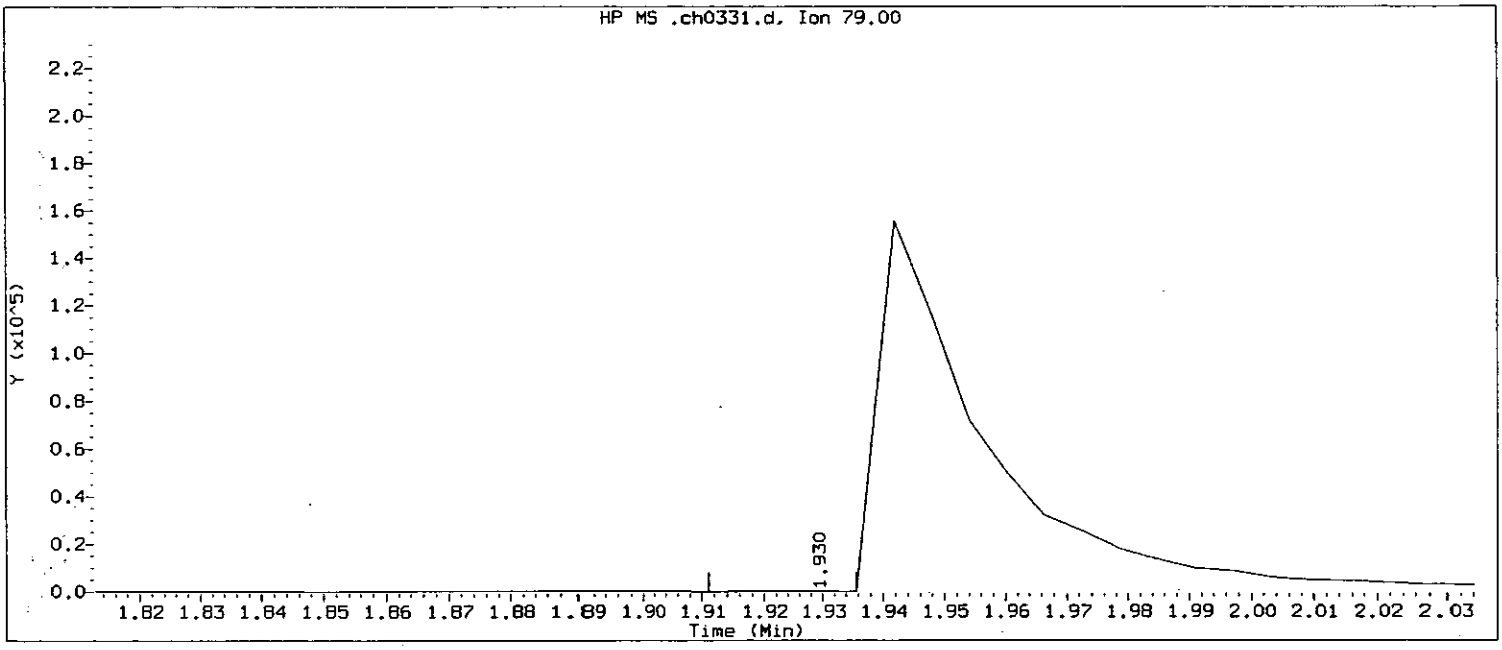
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.677	202	579469	57.3799
143)	Butylbenzylphthalate	(5)	10.249	149	319935	71.8009
145)	3,3'-Dichlorobenzidine	(5)	10.648	252	195523	57.2694
146)	Benzo(a)anthracene	(5)	10.654	228	496691	54.4336
147)	Hexabromobenzene	(5)	10.661	552	5332	20.3193
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.661	231	99173	57.9885
149)	Chrysene-d12	(5)	10.667	240	323131	40.0000
150)	Chrysene	(5)	10.685	228	485636	53.9310
151)	bis(2-Ethylhexyl)phthalate	(5)	10.728	149	443063	71.9134
152)	6-Methylchrysene	(5)	11.054	242	361976	56.1409
156)	Di-n-octylphthalate	(6)	11.257	149	752098	70.1151
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.509	256	236391	52.5796
158)	Benzo(b)fluoranthene	(6)	11.515	252	477419	52.1797
159)	Benzo(k)fluoranthene	(6)	11.534	252	533769	51.9107
160)	Benzo(a)pyrene	(6)	11.755	252	460782M	51.2486
161)	Perylene-d12	(6)	11.798	264	272426	40.0000
162)	3-Methylcholanthrene	(6)	12.019	268	264235	53.8161
166)	Dibenz(a,h)acridine	(6)	12.425	279	396817 A	58.8982
167)	Dibenz(a,j)acridine	(6)	12.468	279	383866	50.9581
168)	Indeno(1,2,3-cd)pyrene	(6)	12.610	276	514561	50.8955
169)	Dibenz(a,h)anthracene	(6)	12.628	278	403288	49.8115
170)	Benzo(g,h,i)perylene	(6)	12.837	276	421463	49.7160
9)	2-Fluorophenol	(1)	3.454	112	159053	55.0209
13)	Phenol-d5	(1)	4.401	99	228837	58.2464
14)	Phenol-d6	(1)	4.401	99	228837	58.2464
35)	Nitrobenzene-d5	(2)	5.201	82	221202	63.4070
66)	2-Fluorobiphenyl	(3)	6.756	172	350200	50.4709
104)	2,4,6-Tribromophenol	(3)	7.943	330	38906	39.9284
138)	Terphenyl-d14	(5)	9.824	244	349910	52.6085

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

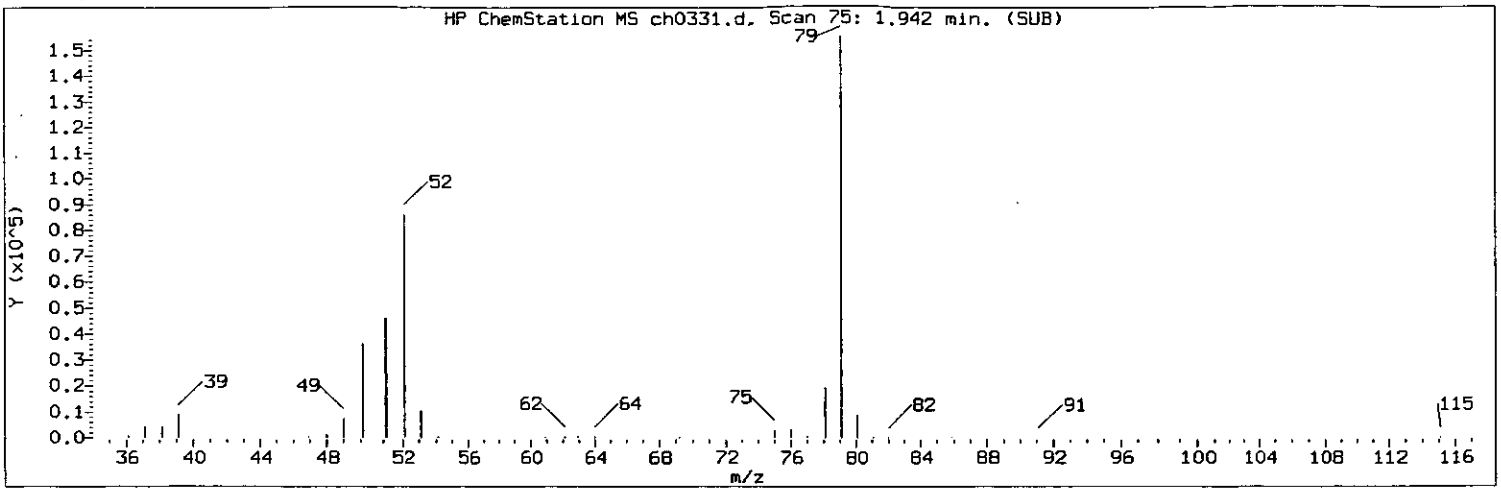
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 3
Compound Name : Pyridine
Scan Number : 73
Retention Time (minutes): 1.930
Quant Ion : 79
Area : 278
Concentration (ng/ul) : 0.0795
Integration start scan : 69 Integration stop scan: 73
Y at integration start : 0 Y at integration end: 0

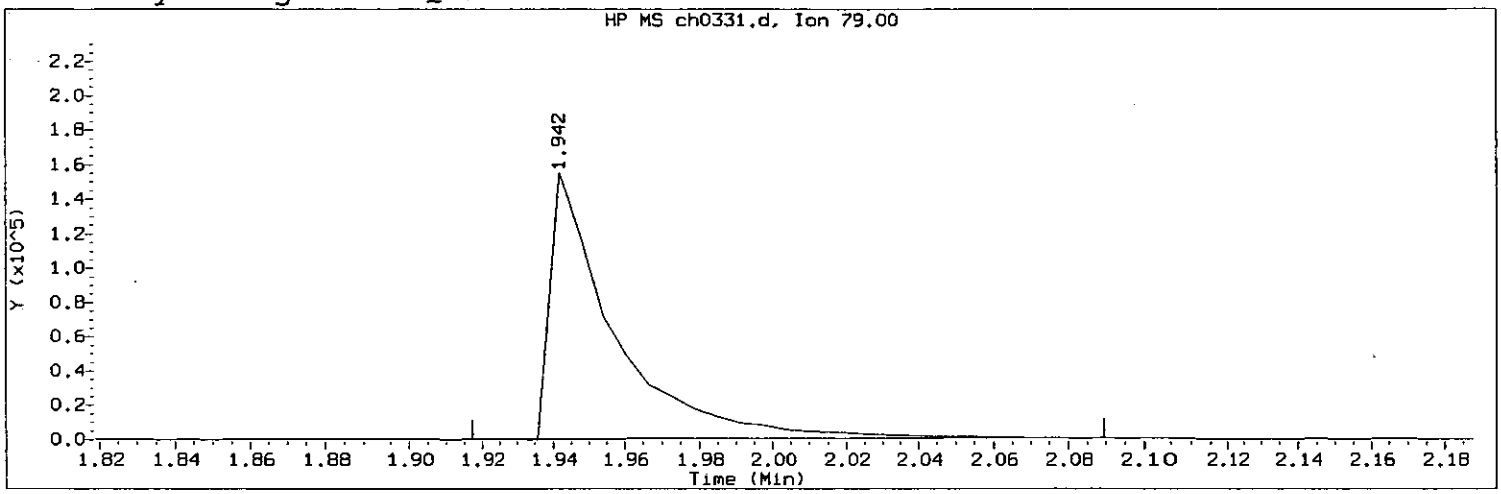
8631

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 3
Compound Name : Pyridine
Scan Number : 75
Retention Time (minutes): 1.942
Quant Ion : 79
Area (flag) : 191513 M
Concentration (ng/ul) : 54.6370
Integration start scan : 70 Integration stop scan: 98
Y at integration start : 207 Y at integration end: 1120

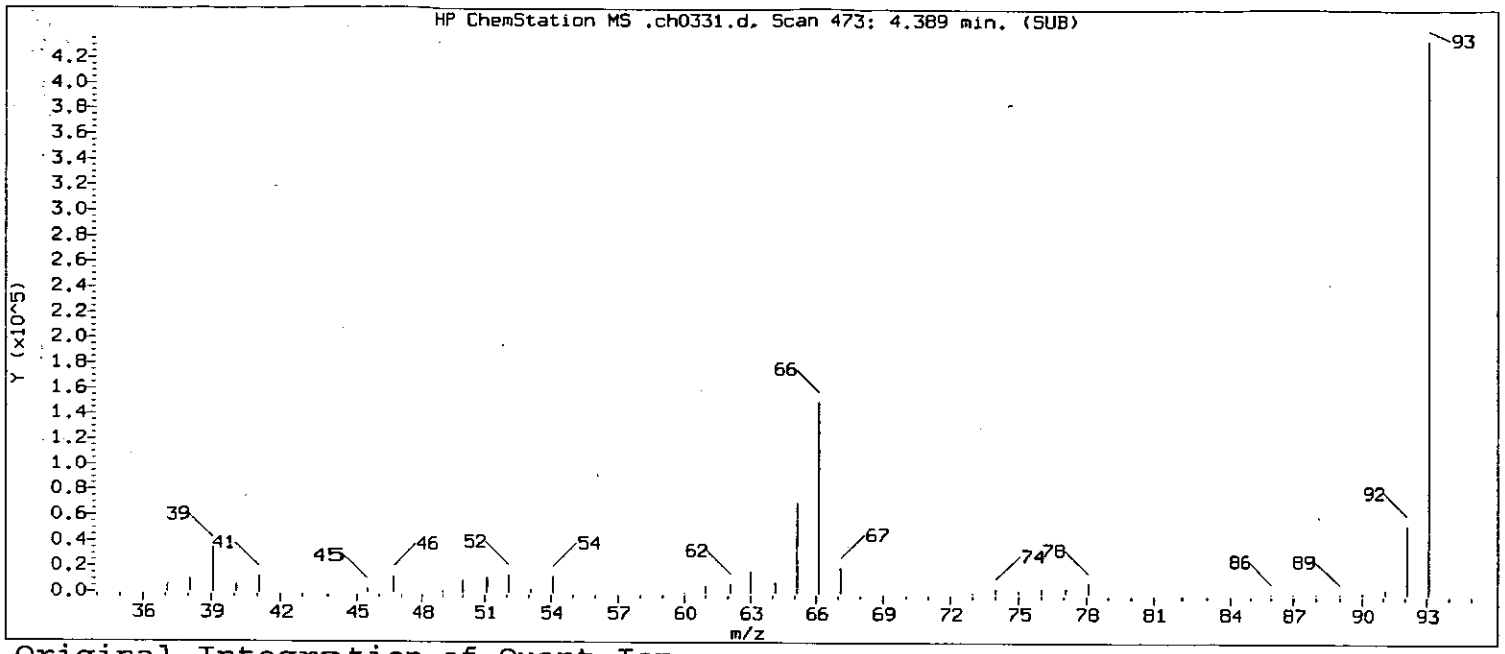
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 1-120

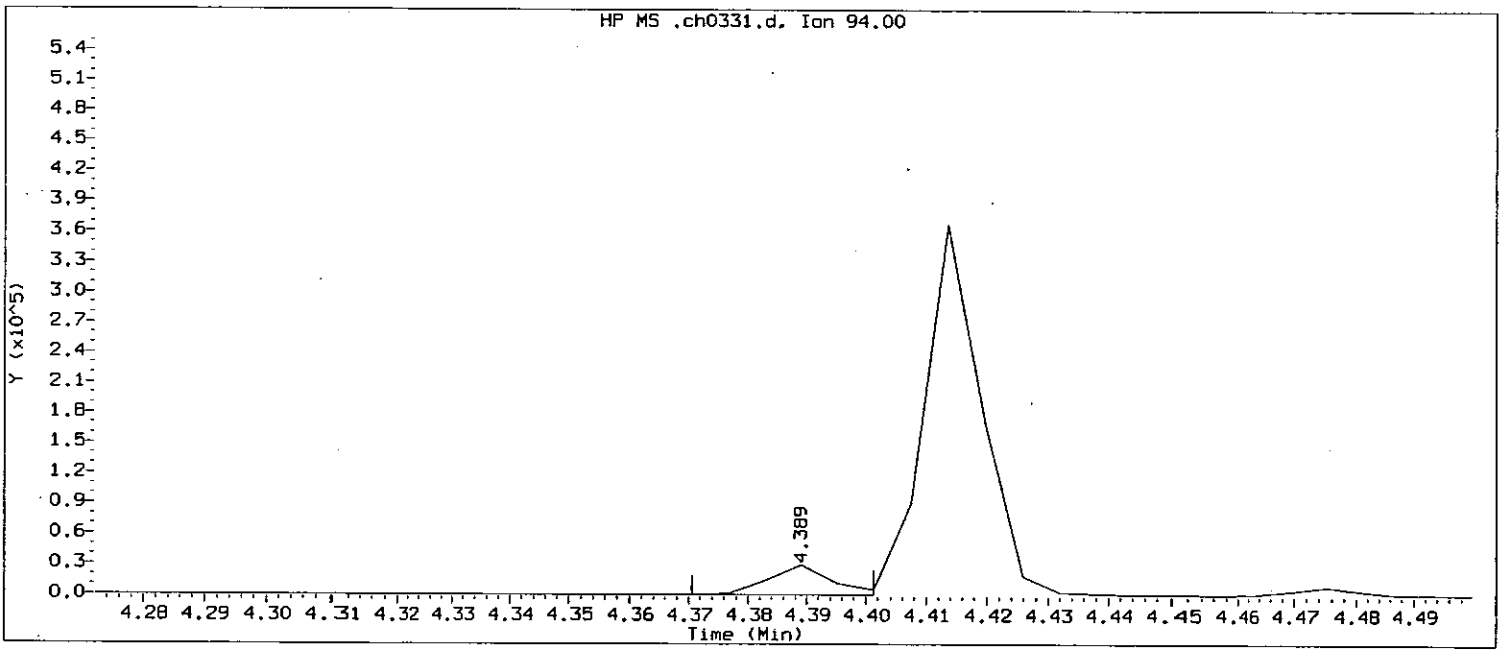
8632

GC/MS audit/management approval: [signature] 6/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

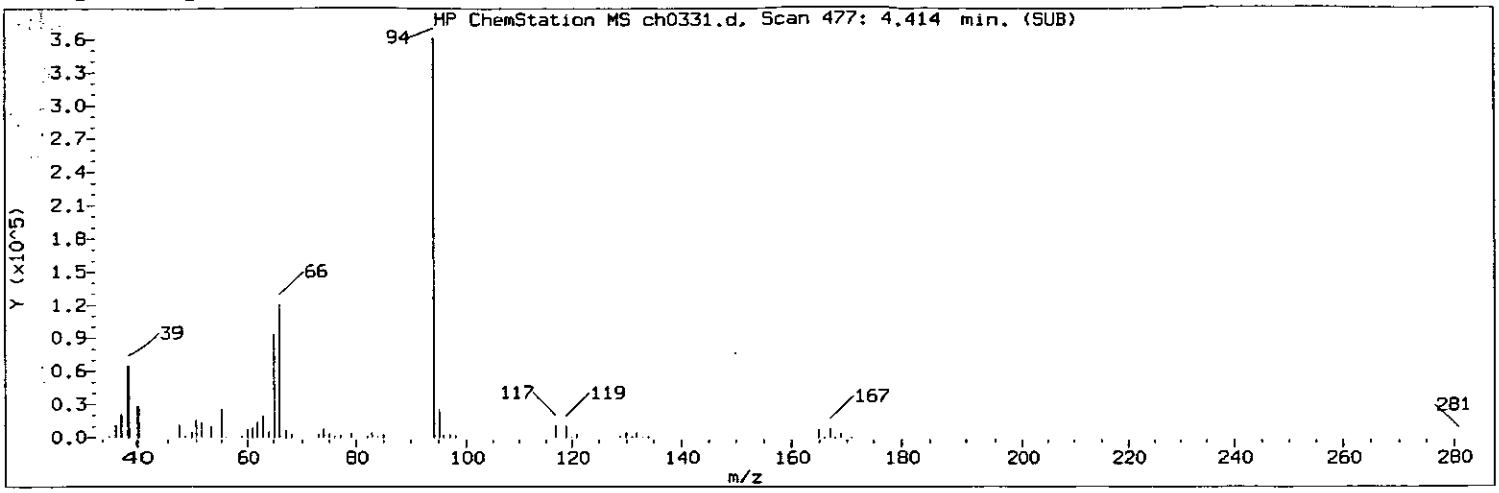
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 15
Compound Name : Phenol
Scan Number : 473
Retention Time (minutes): 4.389
Quant Ion : 94
Area : 21568
Concentration (ng/ul) : 4.6301
Integration start scan : 469 Integration stop scan: 474
Y at integration start : 0 Y at integration end: 0

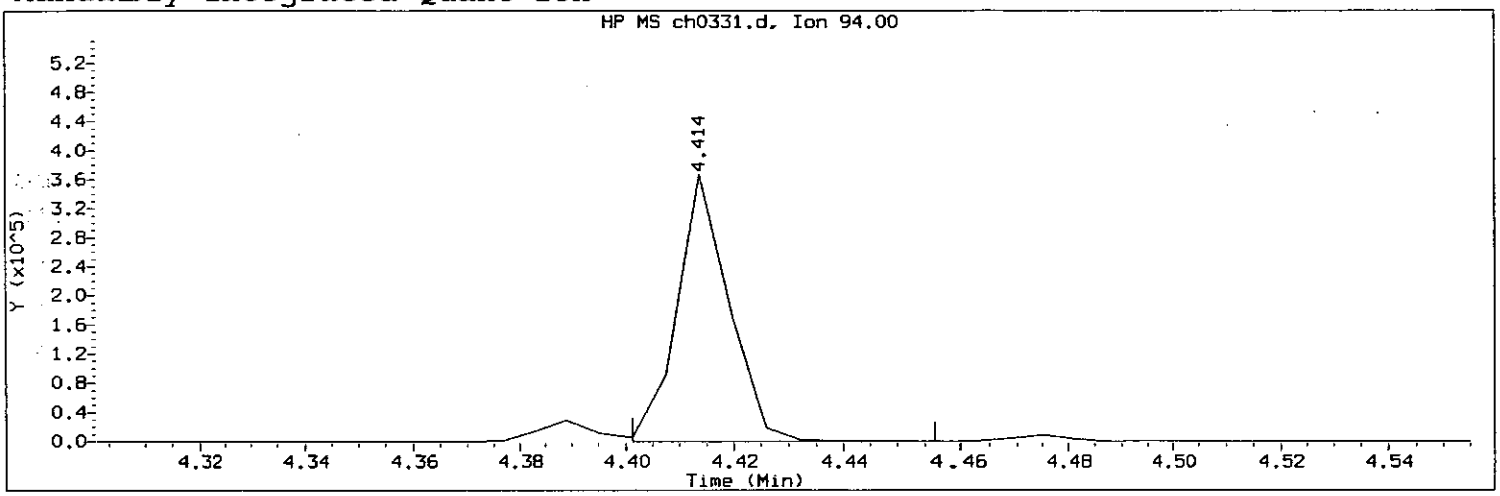
8633

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 15
Compound Name : Phenol
Scan Number : 477
Retention Time (minutes): 4.414
Quant Ion : 94
Area (flag) : 241956A
Concentration (ng/ul) : 51.9396
Integration start scan : 474 Integration stop scan: 483
Y at integration start : 0 Y at integration end: 0

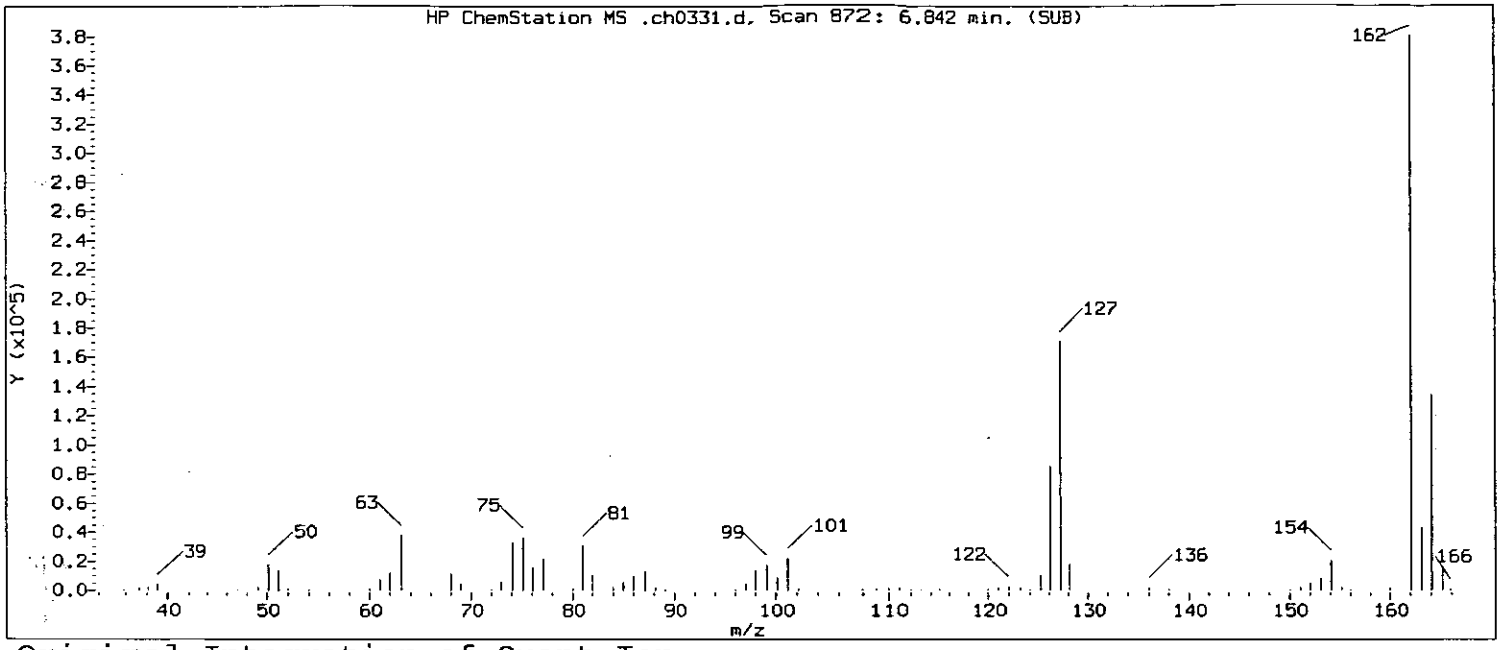
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 8/20/07

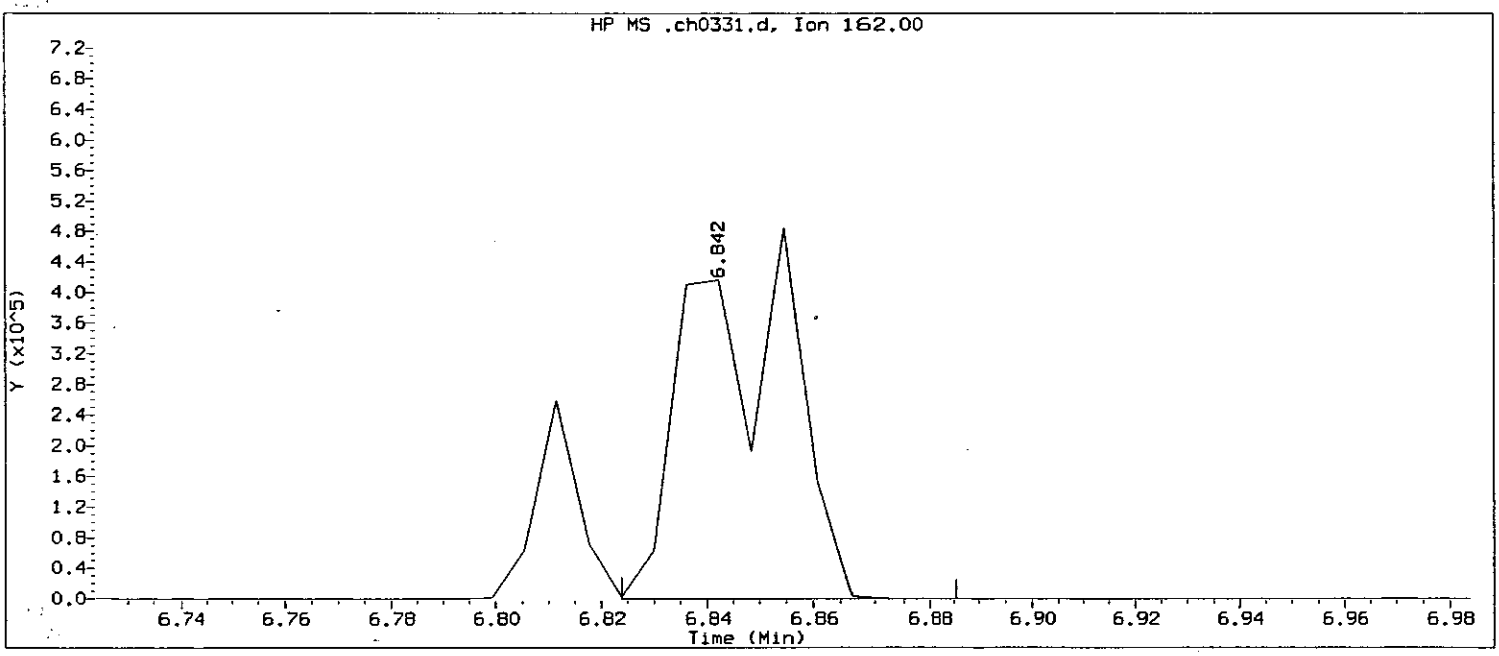
8634

GC/MS audit/management approval: [signature] 8/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

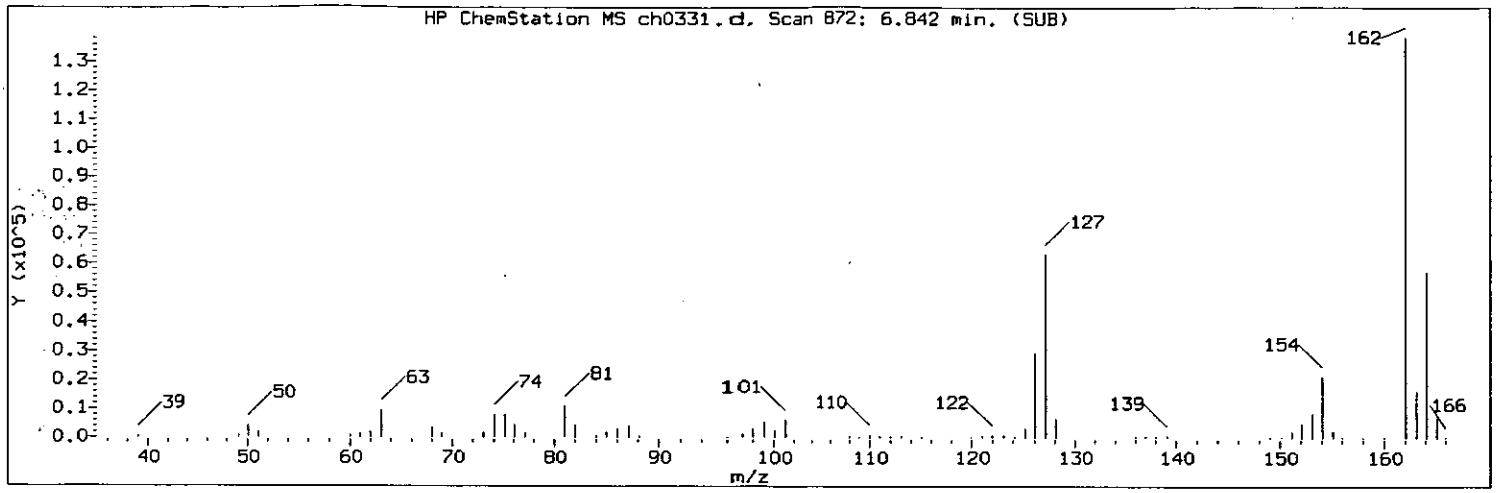
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 872
Retention Time (minutes): 6.842
Quant Ion : 162
Area : 637287
Concentration (ng/ul) : 81.8952
Integration start scan : 868 Integration stop scan: 878
Y at integration start : 0 Y at integration end: 0

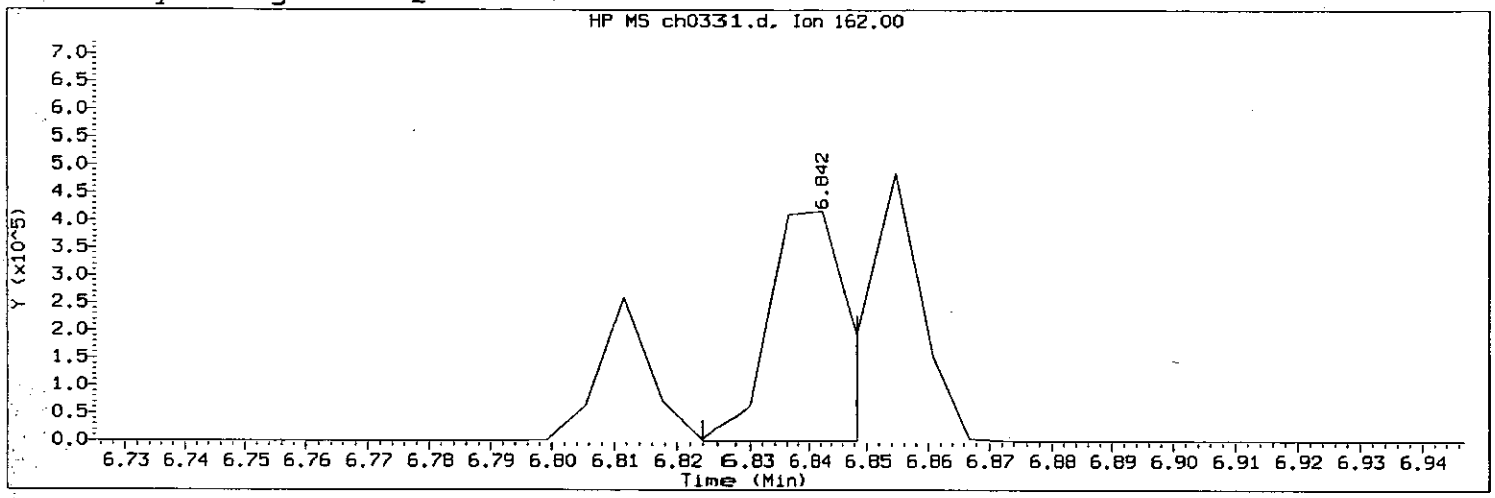
8635

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

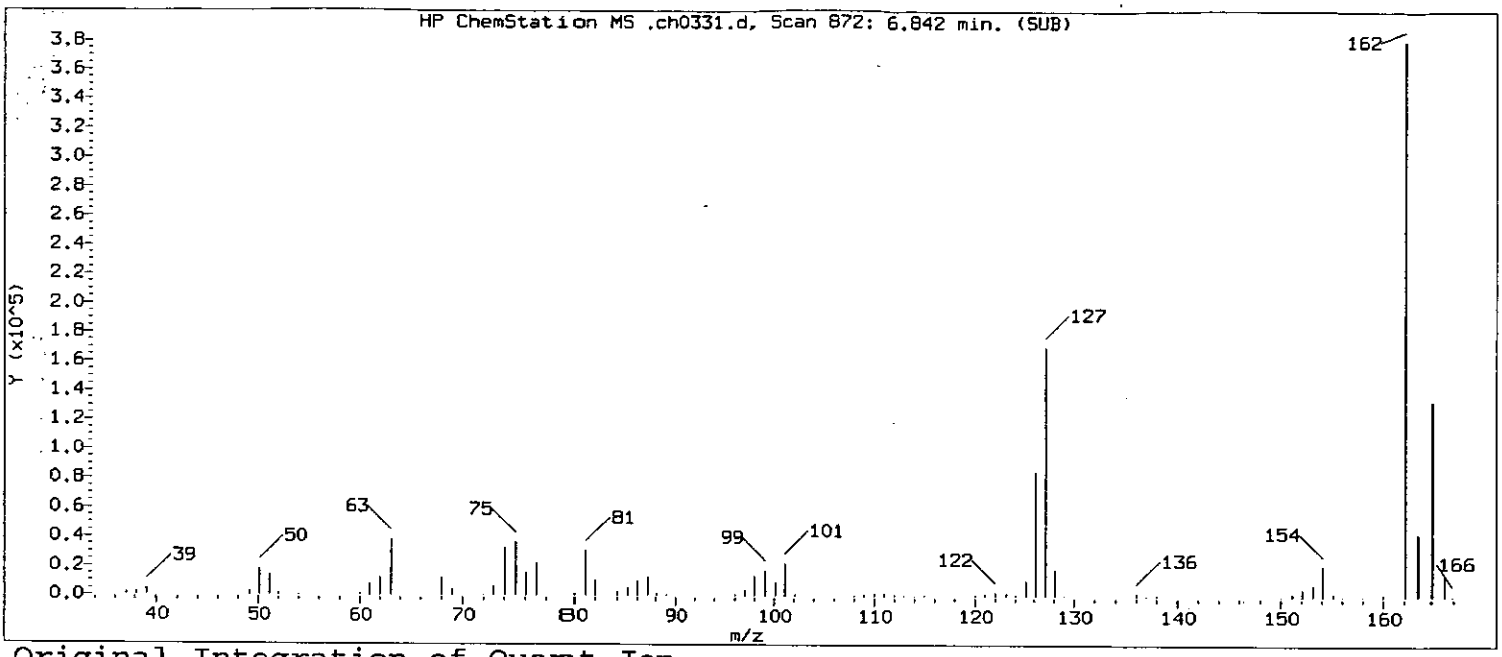
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 872
Retention Time (minutes): 6.842
Quant Ion : 162
Area (flag) : 400403 M
Concentration (ng/ul) : 51.4544
Integration start scan : 868 Integration stop scan: 872
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integrati

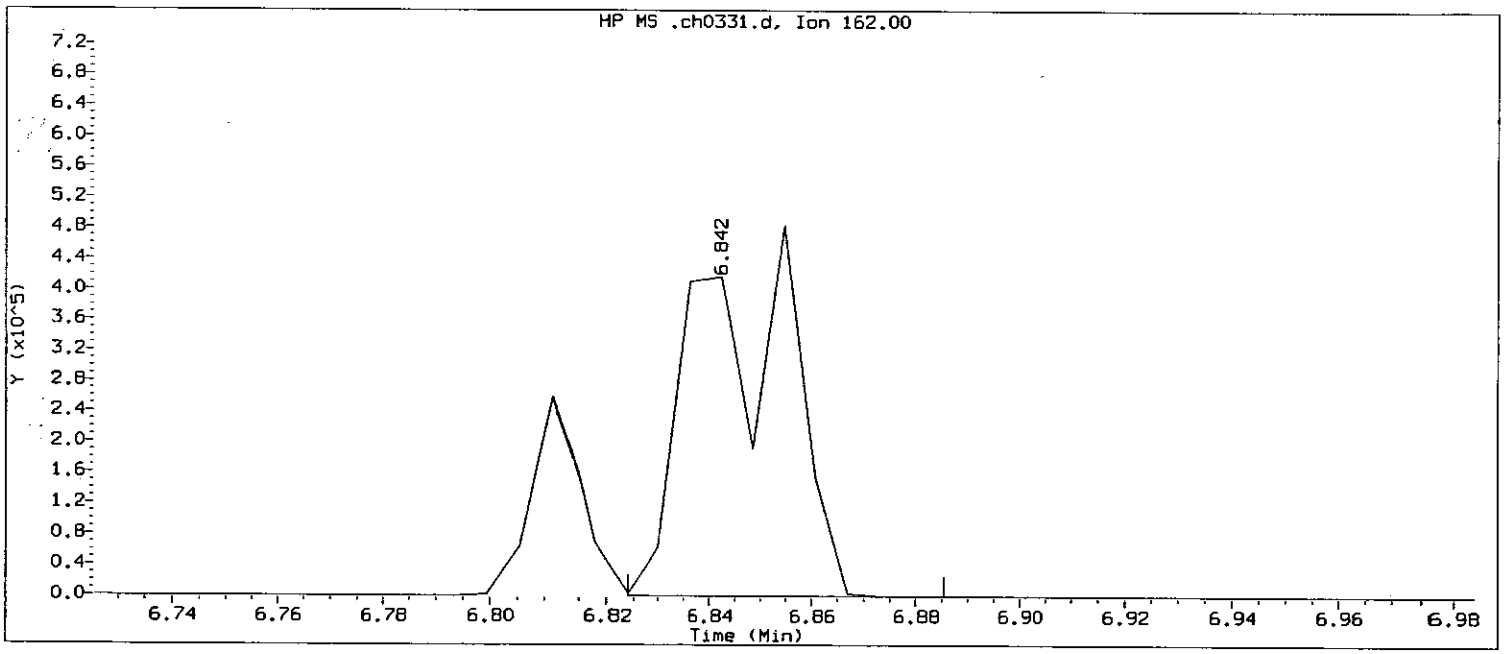
Analyst responsible for change: [signature] 8636

GC/MS audit/management approval: [signature] 8/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

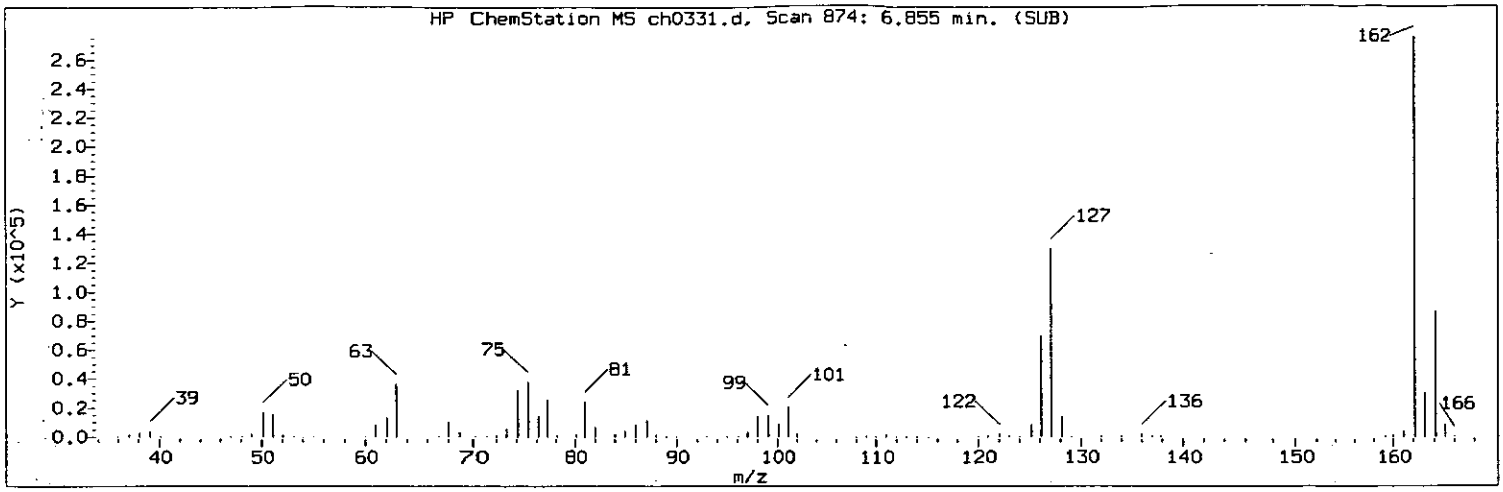
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 872
Retention Time (minutes): 6.842
Quant Ion : 162
Area : 637287
Concentration (ng/ul) : 104.3017
Integration start scan : 868 Integration stop scan: 878
Y at integration start : 0 Y at integration end: 0

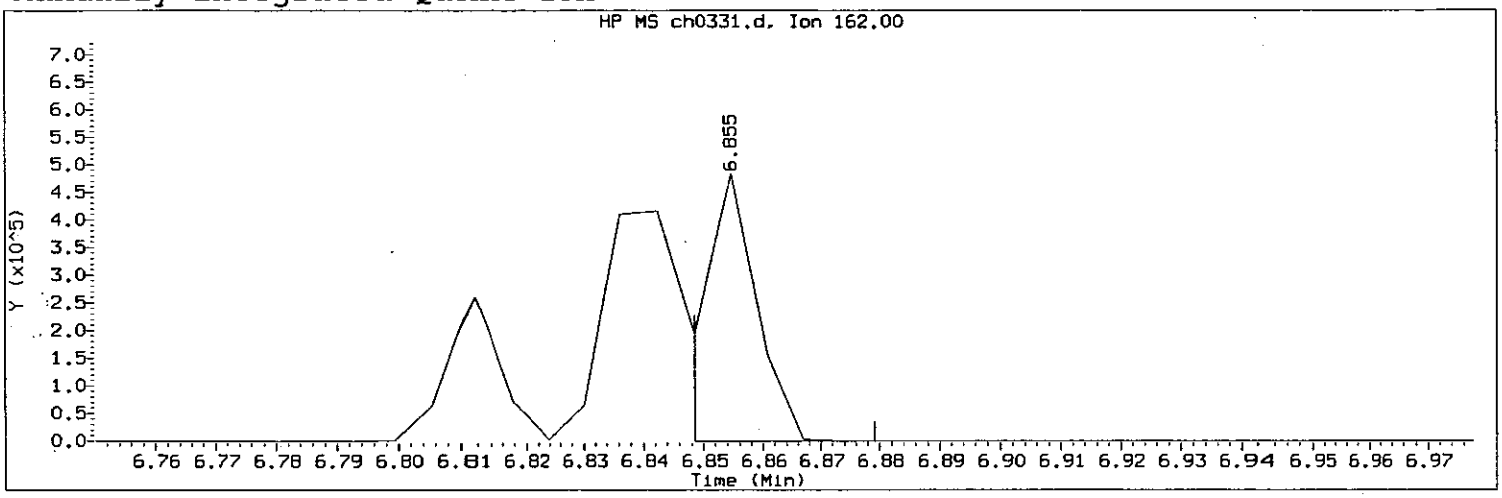
8637

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 874
Retention Time (minutes): 6.855
Quant Ion : 162
Area (flag) : 308340 M
Concentration (ng/ul) : 50.4647
Integration start scan : 872 Integration stop scan: 877
Y at integration start : 165 Y at integration end: -157

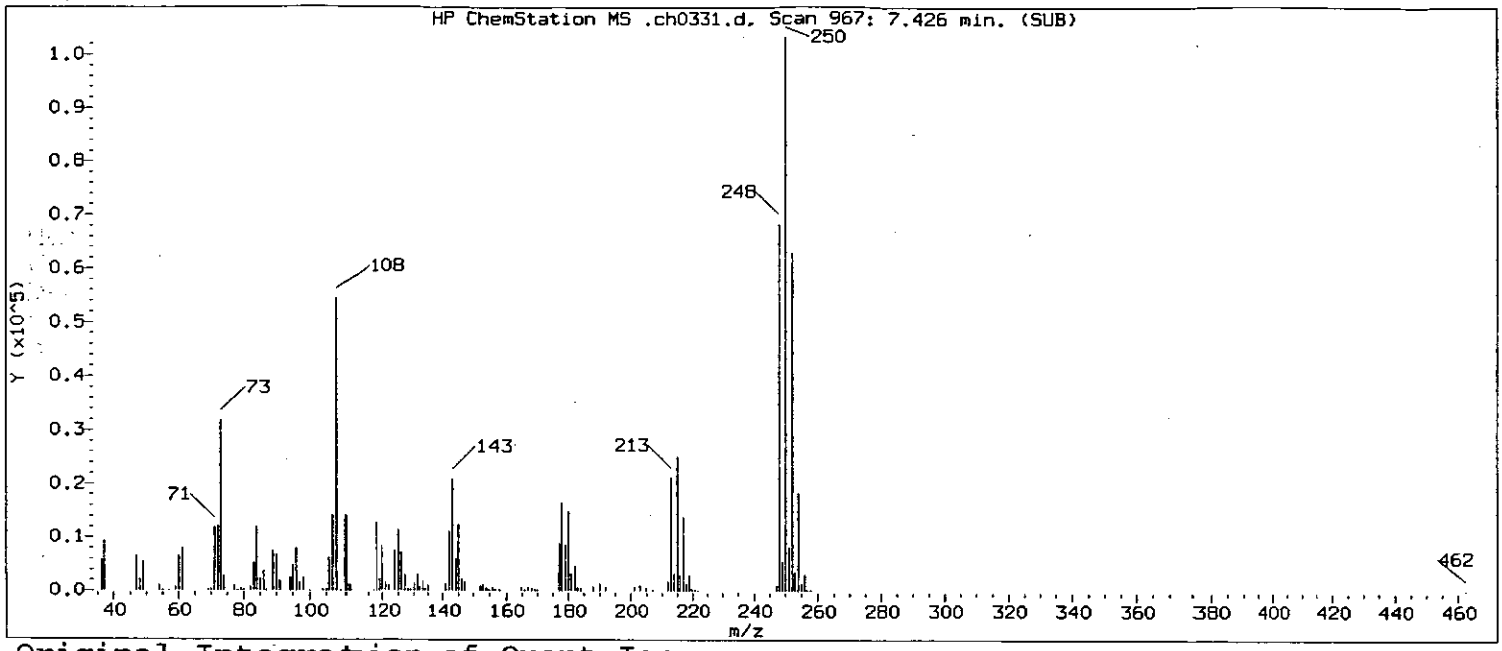
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: [signature] 8/13/07

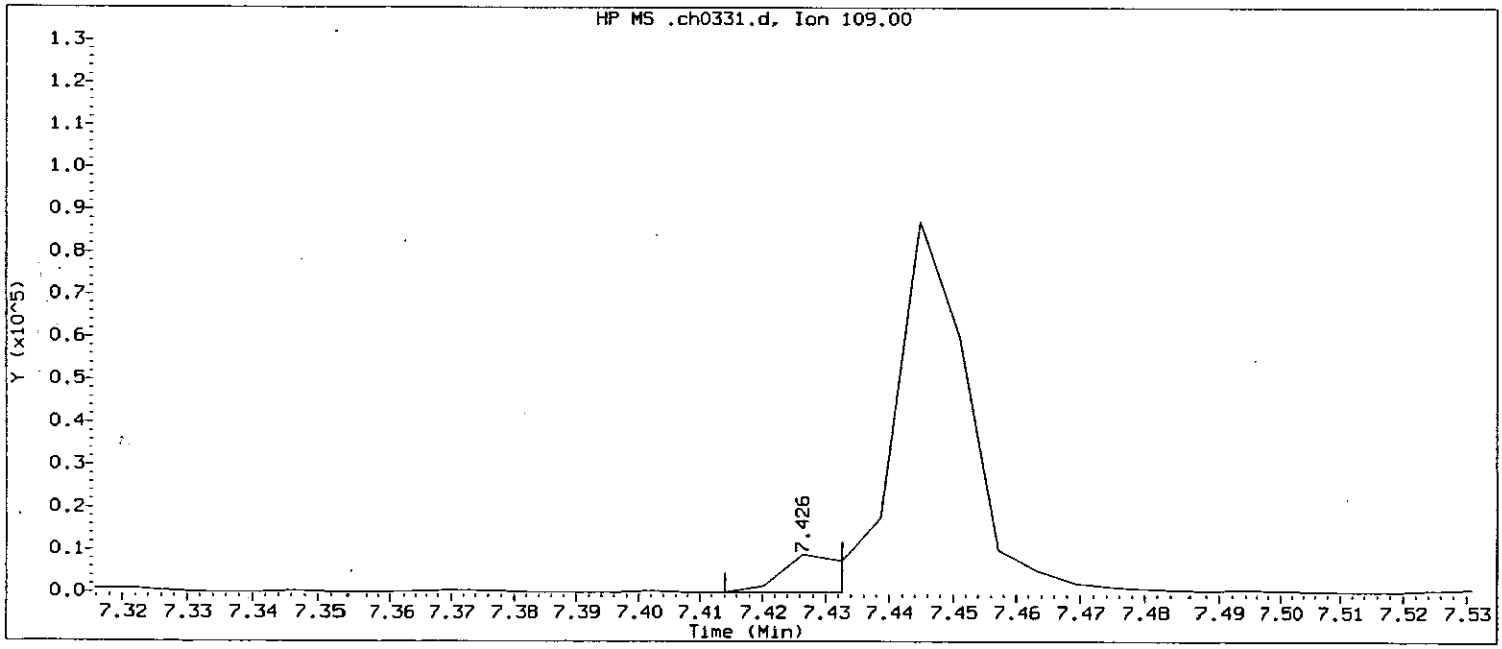
8638

GC/MS audit/management approval: [signature] 8/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

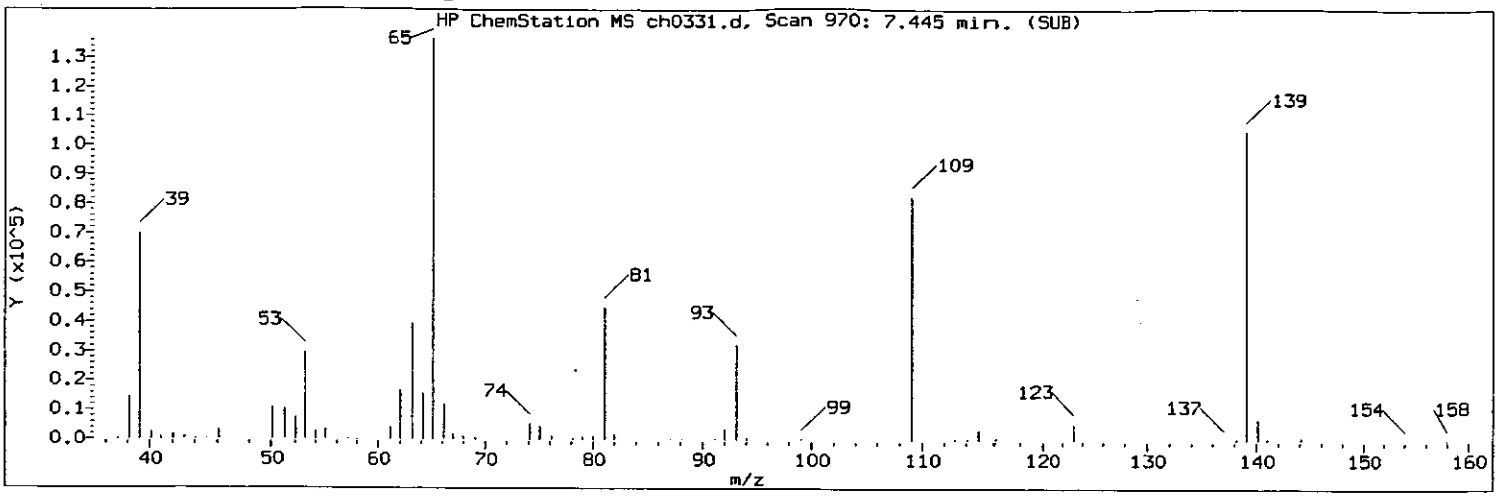
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 967
Retention Time (minutes): 7.426
Quant Ion : 109
Area : 5186
Concentration (ng/ul) : 7.4122
Integration start scan : 964 Integration stop scan: 967
Y at integration start : 0 Y at integration end: 0

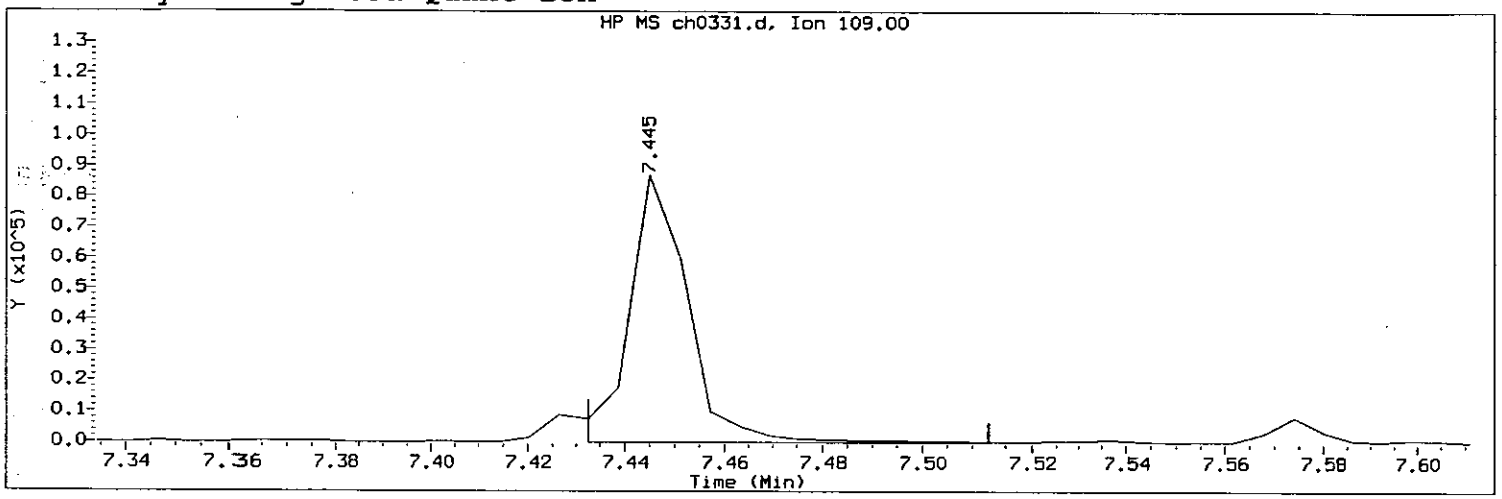
8639

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number : 86
Compound Name : 4-Nitrophenol
Scan Number : 970
Retention Time (minutes): 7.445
Quant Ion : 109
Area (flag) : 69891A
Concentration (ng/ul) : 56.0990
Integration start scan : 967 Integration stop scan: 980
Y at integration start : 0 Y at integration end: 0

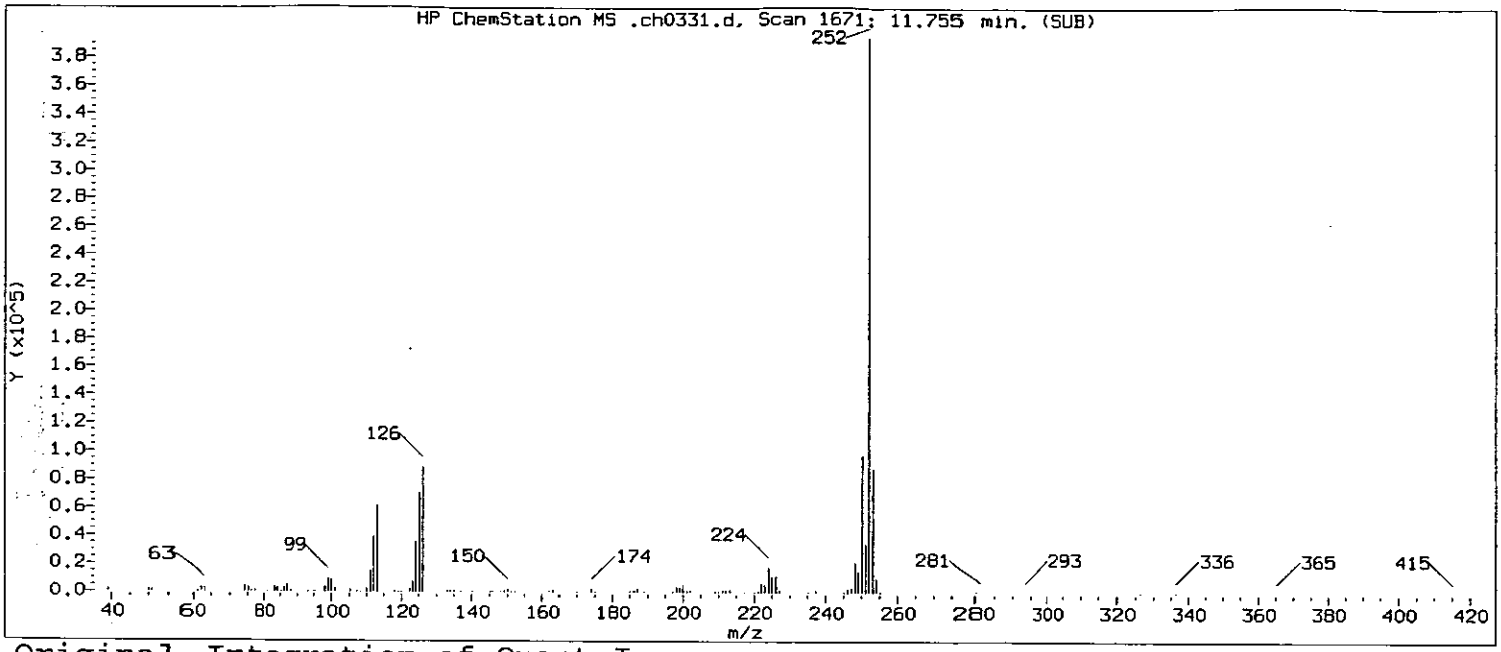
Reason for manual integration (circle one): ~~missed peak~~ improper integrati

Analyst responsible for change: [signature] 8-13-07

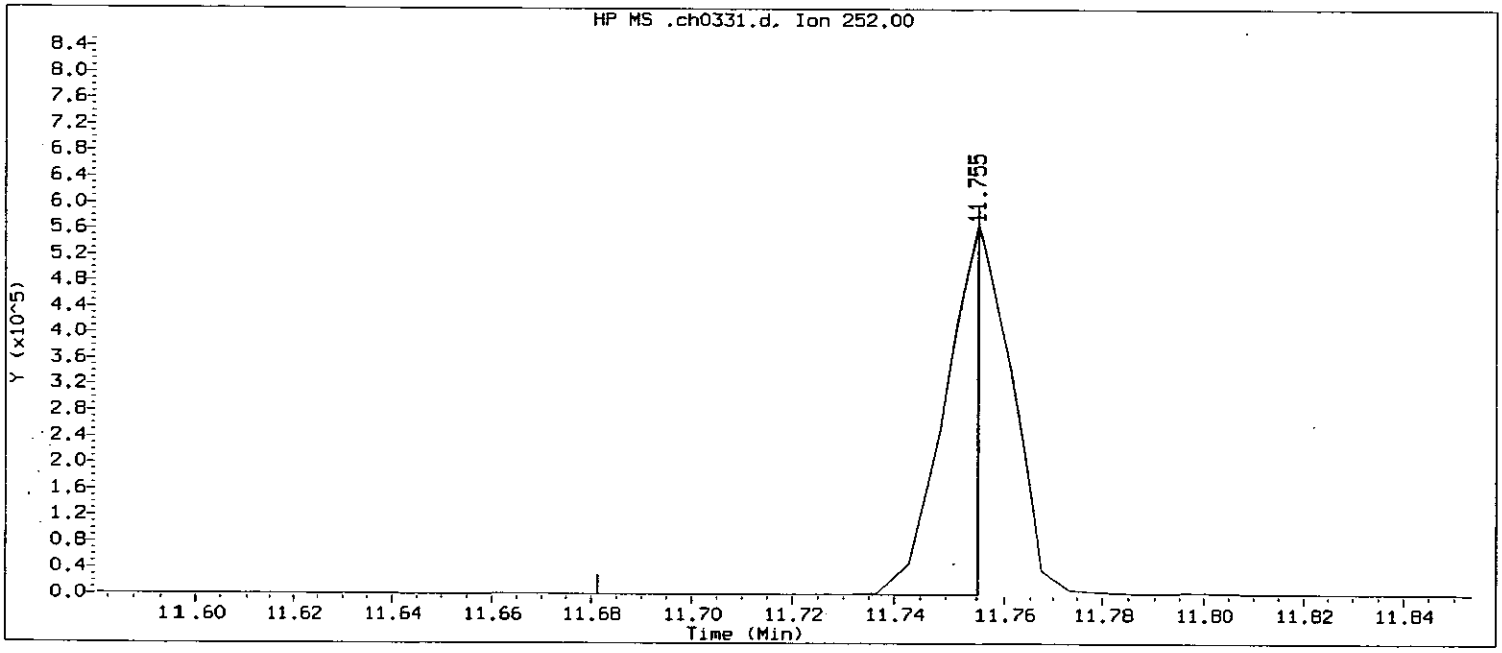
0648

GC/MS audit/management approval: [signature] 8/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

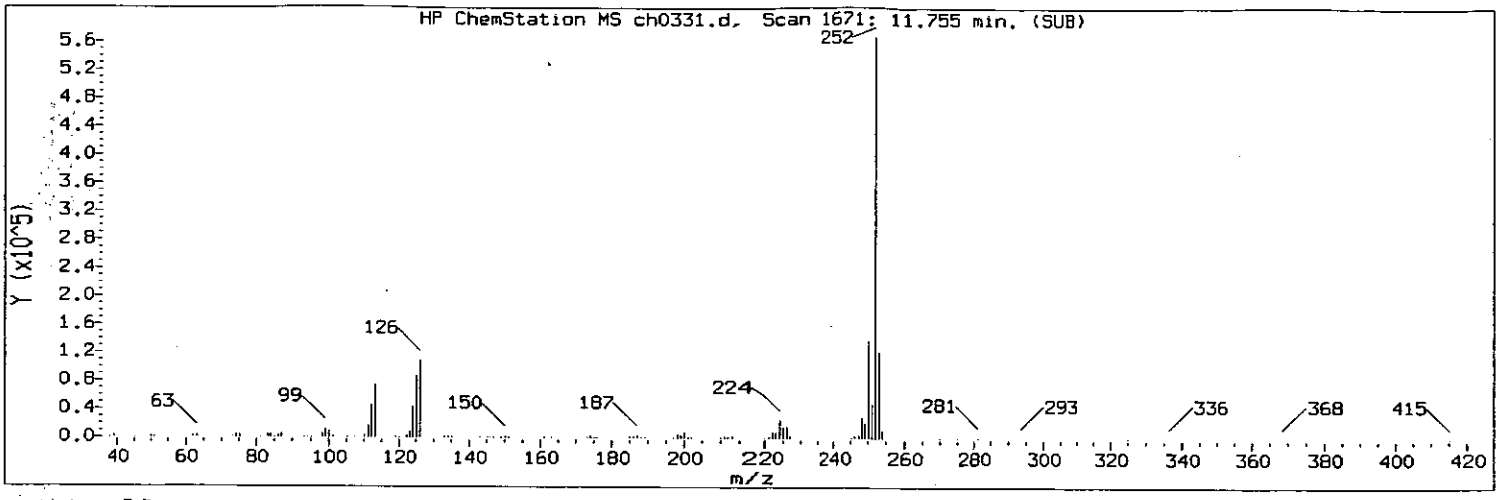
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number	: 160
Compound Name	: Benzo(a)pyrene
Scan Number	: 1671
Retention Time (minutes)	: 11.755
Quant Ion	: 252
Area	: 216222
Concentration (ng/ul)	: 24.0485
Integration start scan	: 1658 Integration stop scan: 1670
Y at integration start	: 255 Y at integration end: 255

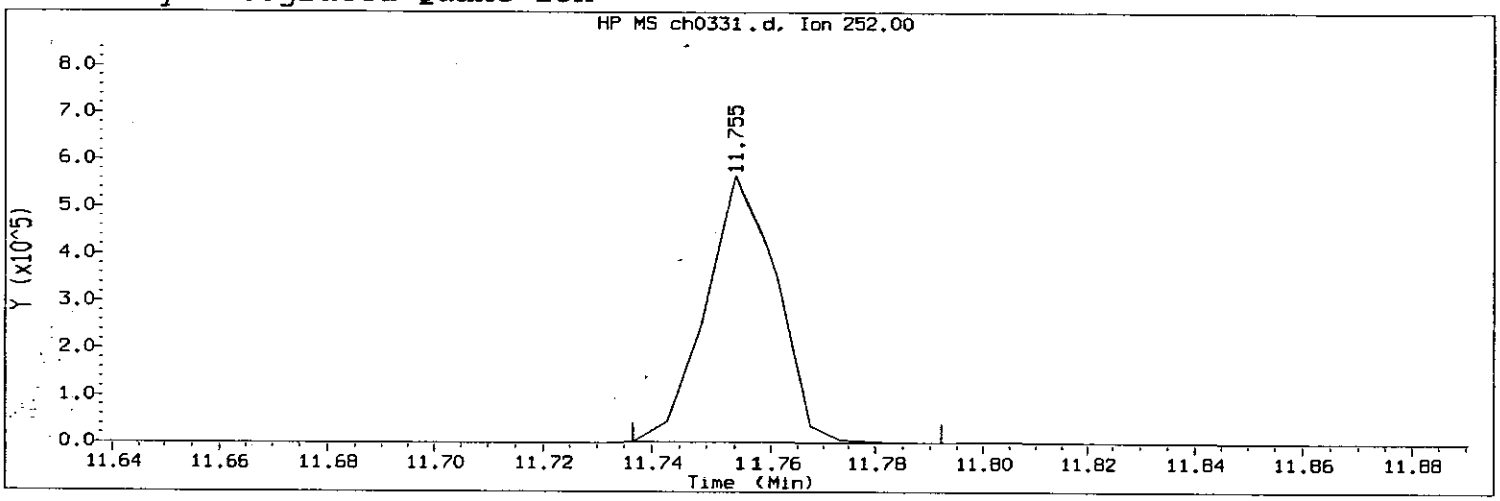
8641

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

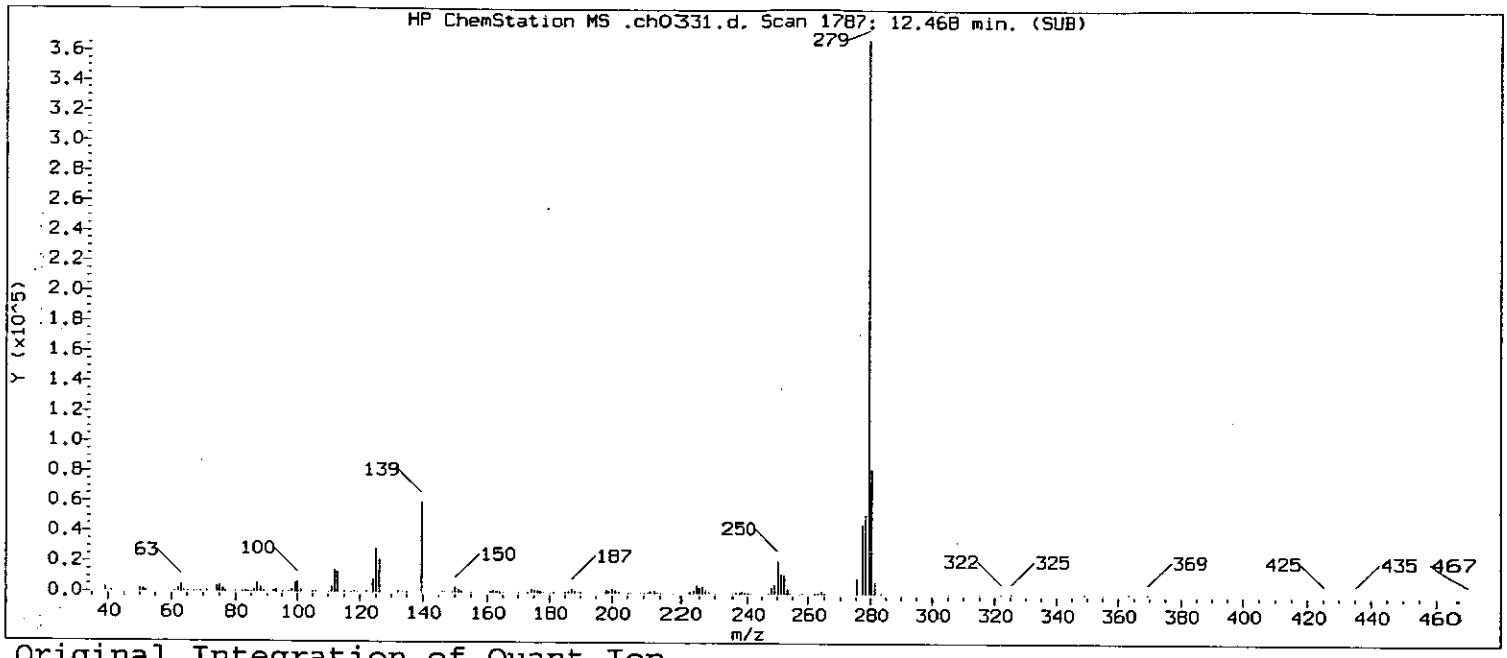
Compound Number	: 160	
Compound Name	: Benzo(a)pyrene	
Scan Number	: 1671	
Retention Time (minutes)	: 11.755	
Quant Ion	: 252	
Area (flag)	: 460782	M
Concentration (ng/ul)	: 51.2486	
Integration start scan	: 1667	Integration stop scan: 1676
Y at integration start	: 2171	Y at integration end: 1947

Reason for manual integration (circle one): missed peak improper integrati

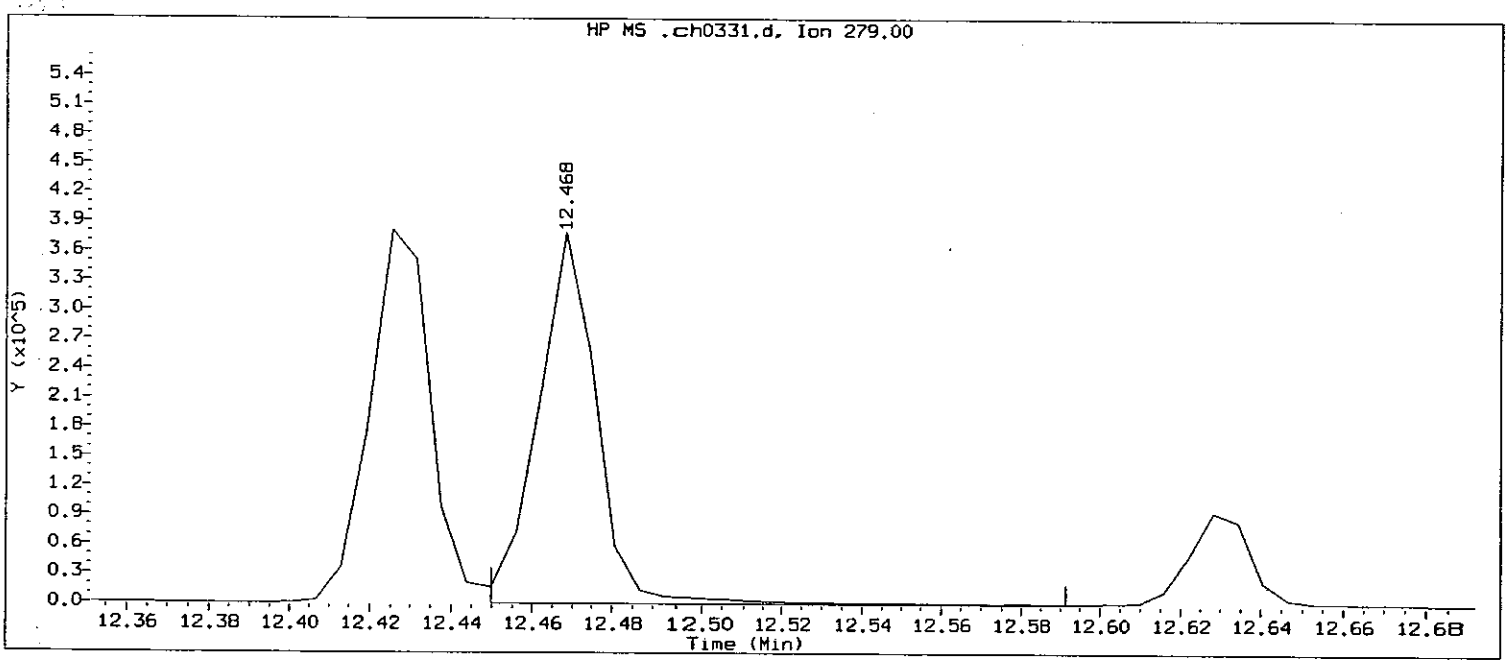
Analyst responsible for change: [signature] 0642

GC/MS audit/management approval: [signature] 8/13/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:07
Date, time and analyst ID of latest file update: 12-Aug-2007 17:07 Automation

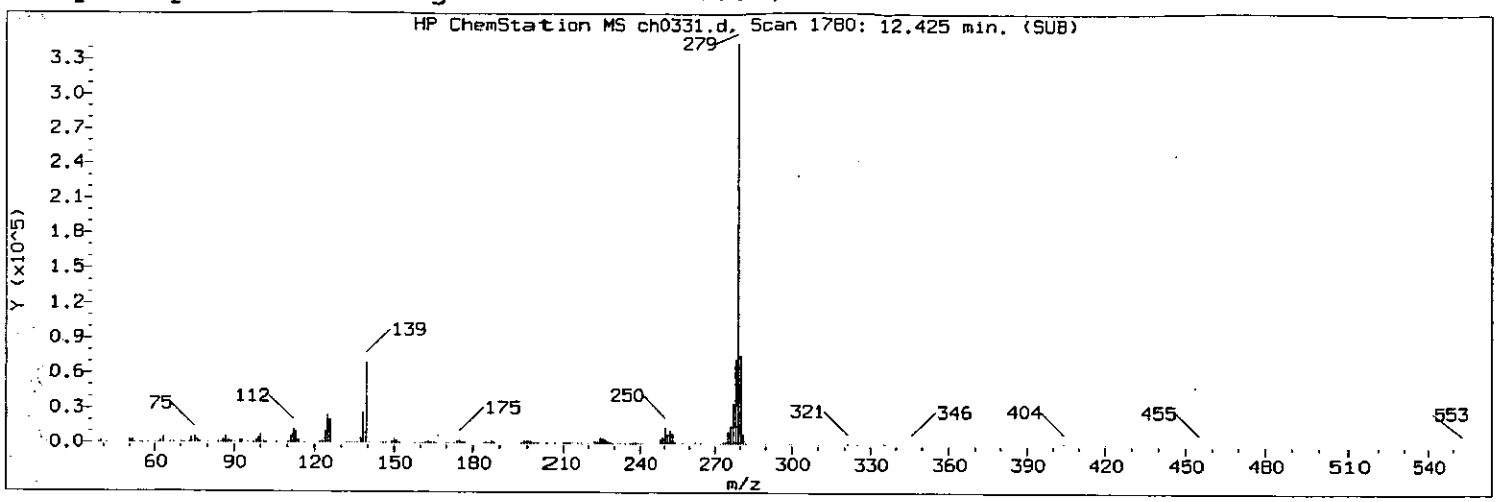
Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number	:	166
Compound Name	:	Dibenz(a,h)acridine
Scan Number	:	1787
Retention Time (minutes)	:	12.468
Quant Ion	:	279
Area	:	383853
Concentration (ng/ul)	:	56.9740
Integration start scan	:	1783 Integration stop scan: 1806
Y at integration start	:	264 Y at integration end: 264

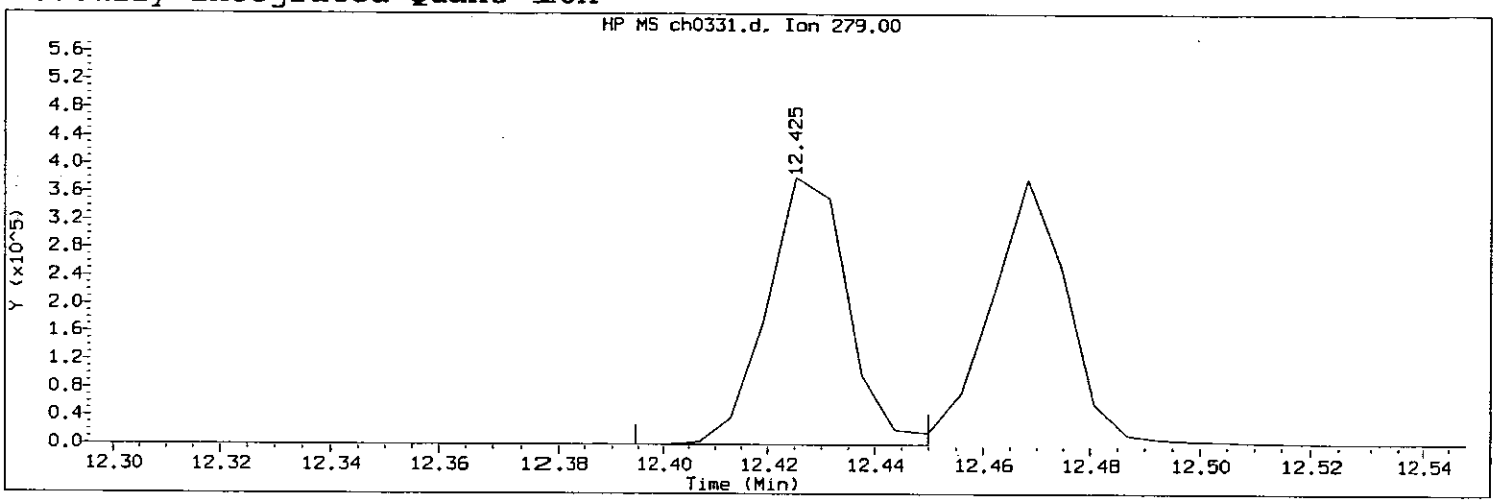
8643

Original Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug12.b/ch0331.d Instrument ID: HP10623.i
Injection date and time: 12-AUG-2007 16:52 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug12.b/m8270.m Sublist used: all1
Calibration date and time: 12-AUG-2007 17:17
Date, time and analyst ID of latest file update: 12-Aug-2007 17:17 fac01858

Sample Name: SSTD050 Lab Sample ID: STD2057

Compound Number	:	166
Compound Name	:	Dibenz(a,h)acridine
Scan Number	:	1780
Retention Time (minutes)	:	12.425
Quant Ion	:	279
Area (flag)	:	396817A
Concentration (ng/ul)	:	58.8982
Integration start scan	:	1774 Integration stop scan: 1783
Y at integration start	:	264 Y at integration end: 264

Reason for manual integration (circle one): (missed peak) improper integratic

Analyst responsible for change: [signature]

GC/MS audit/management approval: 8644 [signature] 8/13/07

Manual Integration Report for data file /chem/HP10623.i/07aug12.b/ch0331.d, generated on 08/12/2007 at 17:17

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/15/07 Time: 20:08

Lab File ID: ch0471.d Init. Calib. Date(s): 08/14/07 08/14/07

Init. Calib. Times(s): 00:49 02:38

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.625	0.591	28.370	30.0	-5
	N-Nitrosodimethylamine	0.935	0.775	24.840	30.0	-17
	Pyridine	1.786	1.665	27.980	30.0	-7
	2-Picoline	1.712	1.683	29.480	30.0	-2
*	Phenol	2.086	1.989	28.600	30.0	-5*
	Aniline	2.649	2.583	29.260	30.0	-2
	bis(2-Chloroethyl)ether	1.554	1.605	31.000	30.0	3
	2-Chlorophenol	1.545	1.541	29.910	30.0	0
	1,3-Dichlorobenzene	1.610	1.603	29.870	30.0	0
*	1,4-Dichlorobenzene	1.638	1.642	30.080	30.0	0*
	Benzyl alcohol	1.094	1.082	29.670	30.0	-1
	1,2-Dichlorobenzene	1.545	1.573	30.530	30.0	2
	2-Methylphenol	1.521	1.512	29.830	30.0	-1
	2,2'-oxybis(1-Chloropropane)	1.555	1.578	30.450	30.0	1
	bis(2-Chloroisopropyl)ether	1.555	1.578	30.450	30.0	1
	Acetophenone	2.196	2.191	29.940	30.0	0
#	N-Nitroso-di-n-propylamine	1.105	1.135	30.790	30.0	3#
	4-Methylphenol	1.745	1.748	30.060	30.0	0
	o-Toluidine	2.526	2.553	30.320	30.0	1
	Hexachloroethane	0.557	0.591	31.840	30.0	6
	Nitrobenzene	0.379	0.368	29.150	30.0	-3
	Isophorone	0.702	0.716	30.580	30.0	2
*	2-Nitrophenol	0.183	0.186	30.420	30.0	1*
	2,4-Dimethylphenol	0.358	0.358	29.950	30.0	0
	bis(2-Chloroethoxy)methane	0.366	0.515	42.240	30.0	41
	Benzoic acid	0.192	0.218	43.270	40.0	8
*	2,4-Dichlorophenol	0.291	0.299	30.770	30.0	3*
	1,2,4-Trichlorobenzene	0.292	0.303	31.080	30.0	4
	Naphthalene	1.068	1.072	30.100	30.0	0
	4-Chloroaniline	0.460	0.450	29.370	30.0	-2
	2,6-Dichlorophenol	0.284	0.289	30.520	30.0	2
*	Hexachlorobutadiene	0.134	0.148	33.040	30.0	10*
	Quinoline	0.729	0.717	29.520	30.0	-2
	Caprolactam	0.132	0.127	28.780	30.0	-4
*	4-Chloro-3-methylphenol	0.319	0.323	30.390	30.0	1*
	2-Methylnaphthalene	0.722	0.733	30.470	30.0	2

8645

PAH ONLY

mm 8/19/07

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/15/07 Time: 20:08

Lab File ID: ch0471.d Init. Calib. Date(s): 08/14/07 08/14/07

Init. Calib. Times(s): 00:49 02:38

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1-Methylnaphthalene	0.694	0.717	30.960	30.0	3
#	Hexachlorocyclopentadiene	0.129	0.150	31.310	30.0	4#
	1,2,4,5-Tetrachlorobenzene	0.448	0.476	31.880	30.0	6
*	2,4,6-Trichlorophenol	0.332	0.345	31.180	30.0	4*
	2,4,5-Trichlorophenol	0.385	0.390	30.370	30.0	1
	Biphenyl	1.424	1.493	31.450	30.0	5
	Diphenyl	1.424	1.493	31.450	30.0	5
	1,1'-Biphenyl	1.424	1.493	31.450	30.0	5
	2-Chloronaphthalene	1.364	1.567	34.460	30.0	15
	1-Chloronaphthalene	1.168	1.122	28.830	30.0	-4
	Diphenyl ether	0.753	0.796	31.740	30.0	6
	2-Nitroaniline	0.421	0.419	29.840	30.0	-1
	Dimethylphthalate	1.276	1.327	31.200	30.0	4
	2,6-Dinitrotoluene	0.303	0.319	31.560	30.0	5
	Acenaphthylene	1.651	1.686	30.630	30.0	2
	3-Nitroaniline	0.370	0.358	29.080	30.0	-3
*	Acenaphthene	1.125	1.165	31.070	30.0	4*
#	2,4-Dinitrophenol	0.127	0.134	41.220	40.0	3#
	Pentachlorobenzene	0.416	0.456	32.880	30.0	10
#	4-Nitrophenol	0.202	0.173	25.720	30.0	-14#
	Dibenzofuran	1.636	1.654	30.320	30.0	1
	2,4-Dinitrotoluene	0.402	0.401	29.930	30.0	0
	1-Naphthylamine	1.279	1.260	29.570	30.0	-1
	2,3,4,6-Tetrachlorophenol	0.268	0.274	30.710	30.0	2
	2-Naphthylamine	1.341	1.304	29.160	30.0	-3
	Diethylphthalate	1.290	1.364	31.730	30.0	6
	Fluorene	1.321	1.365	31.000	30.0	3
	4-Chlorophenyl-phenylether	0.569	0.603	31.790	30.0	6
	4-Nitroaniline	0.408	0.381	28.040	30.0	-7
	4,6-Dinitro-2-methylphenol	0.103	0.113	31.500	30.0	5
*	N-Nitrosodiphenylamine (1)	0.521	0.566	32.610	30.0	9*
	1,2-Diphenylhydrazine	0.683	0.730	32.080	30.0	7
	Phorate	0.557	0.612	32.970	30.0	10
	4-Bromophenyl-phenylether	0.180	0.205	34.240	30.0	14
	Hexachlorobenzene	0.214	0.234	32.800	30.0	9
*	Pentachlorophenol	0.113	0.124	43.800	40.0	10*

8646

(1) Cannot be Separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/15/07 Time: 20:08

Lab File ID: ch0471.d Init. Calib. Date(s): 08/14/07 08/14/07

Init. Calib. Times(s): 00:49 02:38

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Phenanthrene	1.059	1.096	31.040	30.0	3
	Dinoseb	0.119	0.152	34.060	30.0	14
	Anthracene	1.102	1.142	31.110	30.0	4
	Carbazole	1.039	1.014	29.270	30.0	-2
	Methyl parathion	0.220	0.236	32.310	30.0	8
	Ronnel	0.262	0.295	33.840	30.0	13
	Di-n-butylphthalate	1.206	1.315	32.710	30.0	9
	Parathion	0.142	0.150	31.860	30.0	6
*	Fluoranthene	1.188	1.191	30.080	30.0	0*
	Benzidine	0.795	0.832	94.100	90.0	5
	Pyrene	1.249	1.349	32.420	30.0	8
	Butylbenzylphthalate	0.603	0.663	32.980	30.0	10
	3,3'-Dichlorobenzidine	0.476	0.463	29.170	30.0	-3
	Benzo(a)anthracene	1.133	1.144	30.280	30.0	1
	Hexabromobenzene	0.010	0.009	27.710	30.0	-8
	4,4'-Methylenebis(2-Chloroanil	0.229	0.224	29.310	30.0	-2
	Chrysene	1.148	1.176	30.720	30.0	2
	bis(2-Ethylhexyl)phthalate	0.842	0.929	33.100	30.0	10
	6-Methylchrysene	0.894	0.879	29.480	30.0	-2
*	Di-n-octylphthalate	1.468	1.744	35.640	30.0	19*
	7,12-Dimethylbenz[a]anthracene	0.635	0.685	32.380	30.0	8
	Benzo(b)fluoranthene	1.394	1.328	28.590	30.0	-5
	Benzo(k)fluoranthene	1.410	1.551	33.010	30.0	10
*	Benzo(a)pyrene	1.293	1.320	30.630	30.0	2*
	3-Methylcholanthrene	0.734	0.727	29.720	30.0	-1
	Dibenz(a,h)acridine	1.153	1.107	28.820	30.0	-4
	Dibenz(a,j)acridine	1.178	1.115	28.410	30.0	-5
	Indeno(1,2,3-cd)pyrene	1.630	1.523	28.030	30.0	-7
	Dibenz(a,h)anthracene	1.296	1.239	28.690	30.0	-4
	Benzo(g,h,i)perylene	1.385	1.283	27.800	30.0	-7
	2-Fluorophenol	1.488	1.429	28.800	30.0	-4
	Phenol-d5	1.939	1.872	28.950	30.0	-3
	Phenol-d6	1.939	1.872	28.950	30.0	-3
	Nitrobenzene-d5	0.360	0.349	29.070	30.0	-3
	2-Fluorobiphenyl	1.212	1.284	31.800	30.0	6

0647

FORM VII SV-1

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP10623 Calibration Date: 08/15/07 Time: 20:08

Lab File ID: ch0471.d Init. Calib. Date(s): 08/14/07 08/14/07

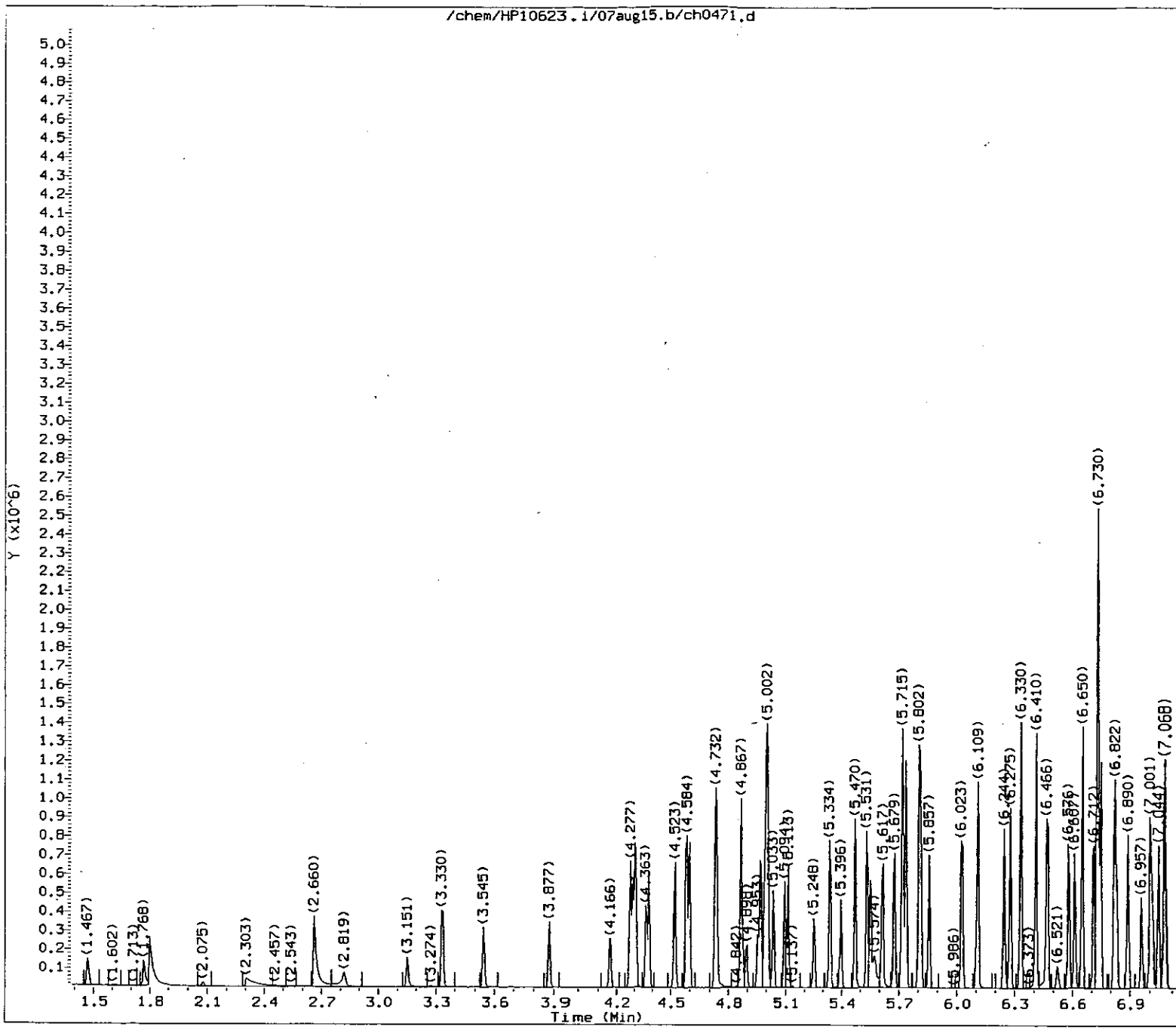
Init. Calib. Times(s): 00:49 02:38

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF30	ACTUAL CONC.	TRUE CONC.	% DRIFT
2,4,6-Tribromophenol	0.202	0.219	32.550	30.0	9
Terphenyl-d14	0.825	0.918	33.370	30.0	11

Average %Drift: 5

8648



Quant Report

Target Revision 3.5

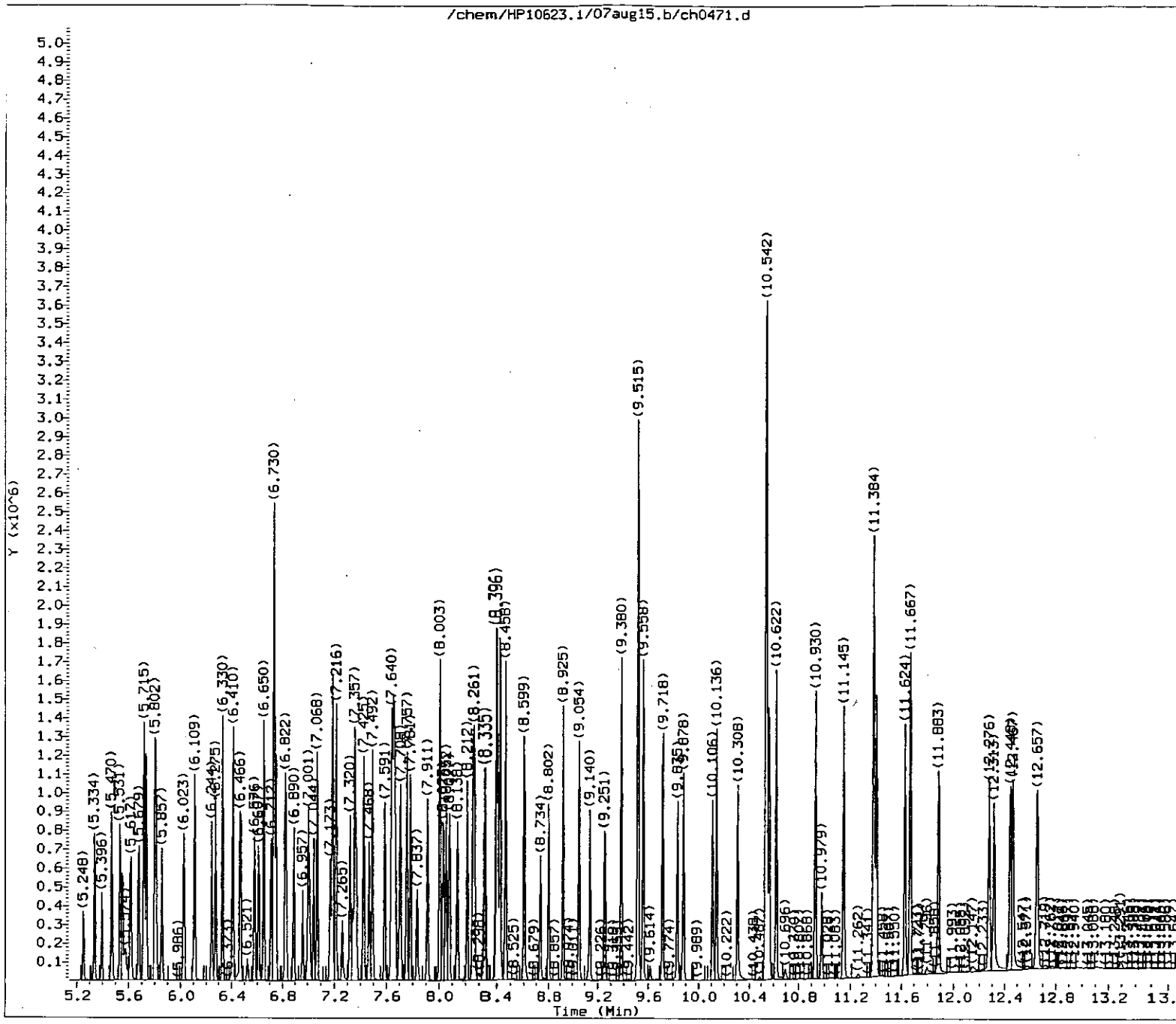
Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

8649

lmh 08/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

8650

lmh196 08/15/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmhO0956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
1)	1,4-Dioxane	(1)	1.467	88	50106	28.3667
2)	N-Nitrosodimethylamine	(1)	1.768	74	65647	24.8447
3)	Pyridine	(1)	1.799	79	141132	27.9756
5)	2-Picoline	(1)	2.660	93	142603	29.4836
15)	Phenol	(1)	4.301	94	168549	28.5974
16)	Aniline	(1)	4.277	93	218922	29.2573
18)	bis(2-Chloroethyl)ether	(1)	4.363	93	136070	30.9984
19)	2-Chlorophenol	(1)	4.381	128	130566	29.9095
20)	1,3-Dichlorobenzene	(1)	4.523	146	135835	29.8730
21)	1,4-Dichlorobenzene-d4	(1)	4.584	152	113004	40.0000
22)	1,4-Dichlorobenzene	(1)	4.596	146	139198	30.0764
23)	Benzyl alcohol	(1)	4.738	108	91726	29.6699
24)	1,2-Dichlorobenzene	(1)	4.732	146	133281	30.5286
25)	2-Methylphenol	(1)	4.867	108	128163	29.8339
26)	2,2'-oxybis(1-Chloropropane)	(1)	4.873	45	133710	30.4459
27)	bis(2-Chloroisopropyl)ether	(1)	4.873	45	133710	30.4459
29)	Acetophenone	(1)	4.971	105	185711	29.9353
30)	N-Nitroso-di-n-propylamine	(1)	4.990	70	96172	30.7934
31)	4-Methylphenol	(1)	5.008	108	148152	30.0593
33)	o-Toluidine	(1)	4.996	106	216365	30.3244
34)	Hexachloroethane	(1)	5.033	117	50084	31.8395
36)	Nitrobenzene	(2)	5.113	77	138470	29.1488
38)	Isophorone	(2)	5.334	82	269045	30.5756
39)	2-Nitrophenol	(2)	5.396	139	69819	30.4244
40)	2,4-Dimethylphenol	(2)	5.470	107	134431	29.9542
42)	bis(2-Chloroethoxy)methane	(2)	5.531	93	193475	42.2421
43)	Benzoic acid	(2)	5.574	105	109361	43.2684
44)	2,4-Dichlorophenol	(2)	5.617	162	112316	30.7733
45)	1,2,4-Trichlorobenzene	(2)	5.679	180	113724	31.0843
46)	Naphthalene-d8	(2)	5.715	136	501145	40.0000
47)	Naphthalene	(2)	5.734	128	402842	30.0953
48)	4-Chloroaniline	(2)	5.802	127	169204	29.3680
49)	2,6-Dichlorophenol	(2)	5.808	162	108524	30.5176
51)	Hexachlorobutadiene	(2)	5.857	225	55569	33.0426
52)	Quinoline	(2)	6.029	129	269612	29.5169
53)	Caprolactam	(2)	6.109	113	47728	28.7790
55)	4-Chloro-3-methylphenol	(2)	6.244	107	121404	30.3946
58)	2-Methylnaphthalene	(2)	6.330	142	275541	30.4692
60)	1-Methylnaphthalene	(2)	6.410	142	269351	30.9632
61)	Hexachlorocyclopentadiene	(3)	6.423	237	34758	31.3136
62)	1,2,4,5-Tetrachlorobenzene	(3)	6.472	216	110555	31.8791
64)	2,4,6-Trichlorophenol	(3)	6.576	196	80153	31.1826
65)	2,4,5-Trichlorophenol	(3)	6.607	196	90604	30.3674

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
68)	Biphenyl	(3)	6.730	154	346610	31.4501
69)	Diphenyl	(3)	6.730	154	346610	31.4501
70)	1,1'-Biphenyl	(3)	6.730	154	346610	31.4501
71)	2-Chloronaphthalene	(3)	6.730	162	363868M	34.4605
72)	1-Chloronaphthalene	(3)	6.748	162	260602M	28.8321
73)	Diphenyl ether	(3)	6.822	170	184927	31.7390
74)	2-Nitroaniline	(3)	6.835	138	97237	29.8384
77)	Dimethylphthalate	(3)	7.001	163	308197	31.1965
79)	2,6-Dinitrotoluene	(3)	7.044	165	74026	31.5606
80)	Acenaphthylene	(3)	7.068	152	391495	30.6303
81)	3-Nitroaniline	(3)	7.173	138	83225	29.0776
82)	Acenaphthene-d10	(3)	7.185	164	309645	40.0000
83)	Acenaphthene	(3)	7.216	153	270536	31.0669
84)	2,4-Dinitrophenol	(3)	7.265	184	41424	41.2175
85)	Pentachlorobenzene	(3)	7.320	250	105839	32.8845
86)	4-Nitrophenol	(3)	7.339	109	40206	25.7187
87)	Dibenzofuran	(3)	7.357	168	384015	30.3230
88)	2,4-Dinitrotoluene	(3)	7.369	165	93236	29.9278
90)	1-Naphthylamine	(3)	7.425	143	292722	29.5669
91)	2,3,4,6-Tetrachlorophenol	(3)	7.468	232	63621	30.7079
92)	2-Naphthylamine	(3)	7.492	143	302785	29.1618
93)	Diethylphthalate	(3)	7.591	149	316750	31.7257
94)	Fluorene	(3)	7.640	166	317030	31.0017
96)	4-Chlorophenyl-phenylether	(3)	7.658	204	140083	31.7894
98)	4-Nitroaniline	(3)	7.671	138	88486	28.0437
99)	4,6-Dinitro-2-methylphenol	(4)	7.701	198	47000	31.4990
102)	N-Nitrosodiphenylamine	(4)	7.757	169	235788	32.6125
103)	1,2-Diphenylhydrazine	(4)	7.781	77	304169	32.0821
108)	Phorate	(4)	8.003	75	254891	32.9706
110)	4-Bromophenyl-phenylether	(4)	8.052	248	85401	34.2377
112)	Hexachlorobenzene	(4)	8.077	284	97617	32.8034
116)	Pentachlorophenol	(4)	8.255	266	68987	43.8008
120)	Phenanthrene-d10	(4)	8.396	188	555549	40.0000
121)	Phenanthrene	(4)	8.415	178	456770	31.0421
122)	Dinoseb	(4)	8.421	211	63265	34.0593
124)	Anthracene	(4)	8.458	178	476027	31.1063
125)	Carbazole	(4)	8.599	167	422457	29.2694
126)	Methyl parathion	(4)	8.734	109	98480	32.3057
127)	Ronnel	(4)	8.802	285	122898	33.8354
128)	Di-n-butylphthalate	(4)	8.925	149	547773	32.7084
129)	Parathion	(4)	9.054	109	62702	31.8623
134)	Fluoranthene	(4)	9.380	202	496181	30.0837
135)	Benzidine	(5)	9.515	184	925543	94.0973

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

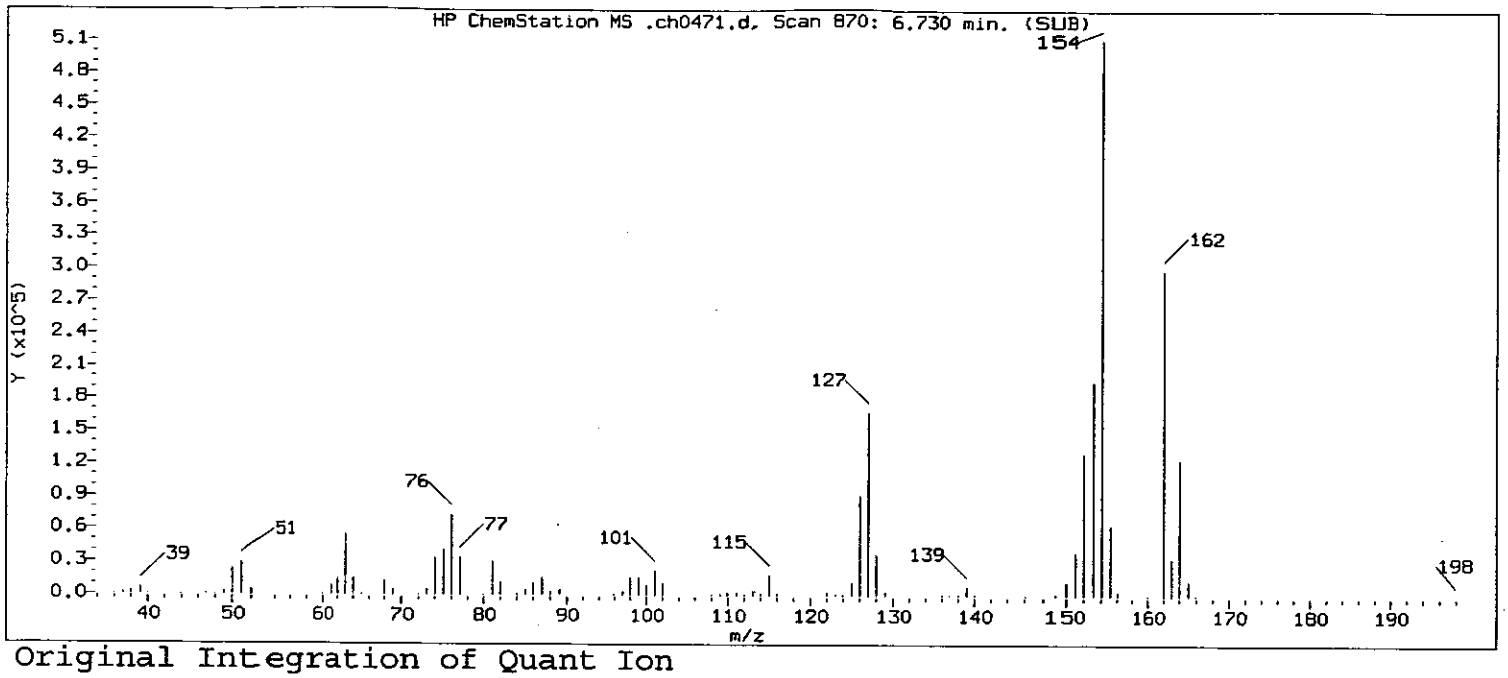
Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

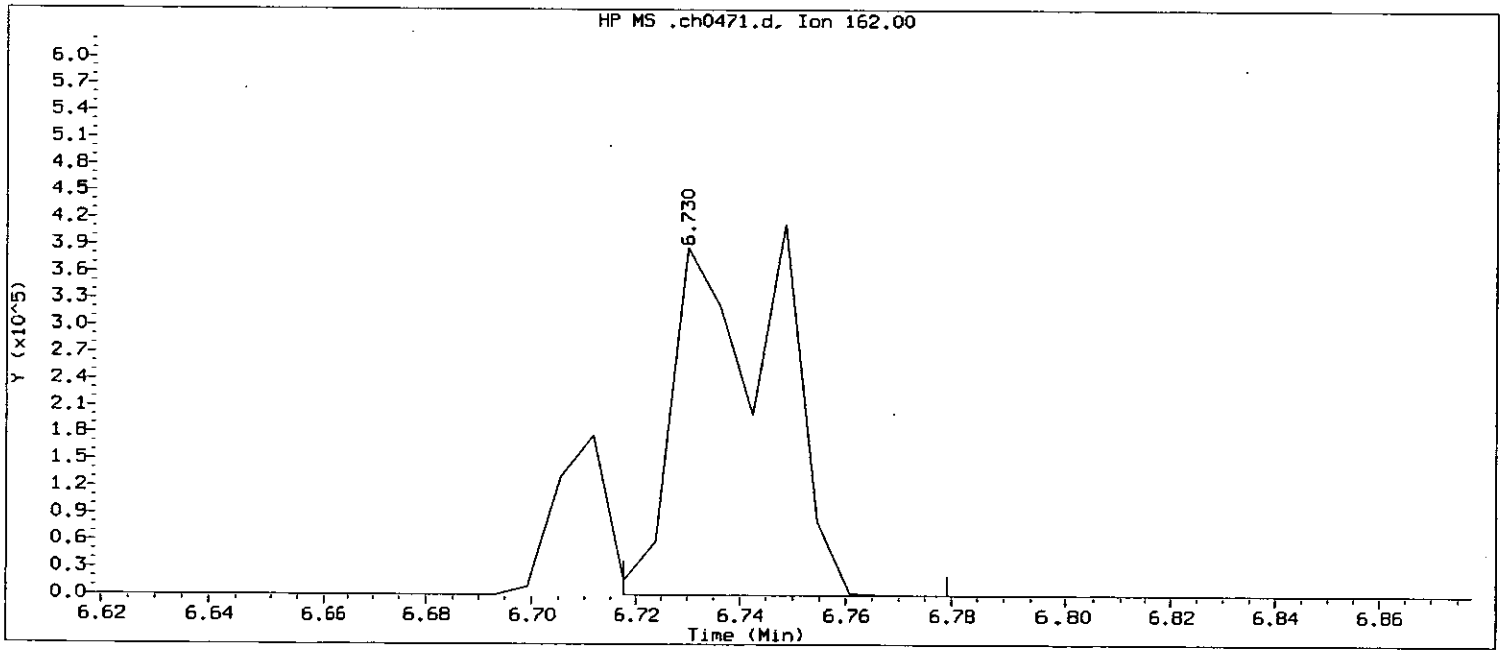
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
136)	Pyrene	(5)	9.558	202	500614	32.4158
143)	Butylbenzylphthalate	(5)	10.136	149	245926	32.9810
145)	3,3'-Dichlorobenzidine	(5)	10.536	252	171712	29.1706
146)	Benzo(a)anthracene	(5)	10.536	228	424354	30.2764
147)	Hexabromobenzene	(5)	10.542	552	3478	27.7120
148)	4,4'-Methylenebis(2-Chloroanil	(5)	10.548	231	83151	29.3147
149)	Chrysene-d12	(5)	10.542	240	494664	40.0000
150)	Chrysene	(5)	10.567	228	436360	30.7247
151)	bis(2-Ethylhexyl)phthalate	(5)	10.622	149	344838	33.0982
152)	6-Methylchrysene	(5)	10.930	242	326072	29.4832
156)	Di-n-octylphthalate	(6)	11.145	149	566707	35.6422
157)	7,12-Dimethylbenz[a]anthracene	(6)	11.384	256	222627	32.3830
158)	Benzo(b)fluoranthene	(6)	11.384	252	431631	28.5860
159)	Benzo(k)fluoranthene	(6)	11.403	252	504098	33.0099
160)	Benzo(a)pyrene	(6)	11.624	252	429038	30.6251
161)	Perylene-d12	(6)	11.667	264	433314	40.0000
162)	3-Methylcholanthrene	(6)	11.889	268	236423	29.7165
166)	Dibenz(a,h)acridine	(6)	12.276	279	359909	28.8232
167)	Dibenz(a,j)acridine	(6)	12.313	279	362461	28.4062
168)	Indeno(1,2,3-cd)pyrene	(6)	12.448	276	494841	28.0269
169)	Dibenz(a,h)anthracene	(6)	12.467	278	402780	28.6940
170)	Benzo(g,h,i)perylene	(6)	12.657	276	416964	27.7966
9)	2-Fluorophenol	(1)	3.336	112	121089	28.8001
13)	Phenol-d5	(1)	4.289	99	158629	28.9512
14)	Phenol-d6	(1)	4.289	99	158629	28.9512
35)	Nitrobenzene-d5	(2)	5.094	82	131234	29.0658
66)	2-Fluorobiphenyl	(3)	6.650	172	298230	31.7962
104)	2,4,6-Tribromophenol	(3)	7.837	330	50970	32.5506
138)	Terphenyl-d14	(5)	9.718	244	340513	33.3667

M = Compound was manually integrated. A = User selected an alternate hi

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:23
Date, time and analyst ID of latest file update: 15-Aug-2007 20:23 Automation

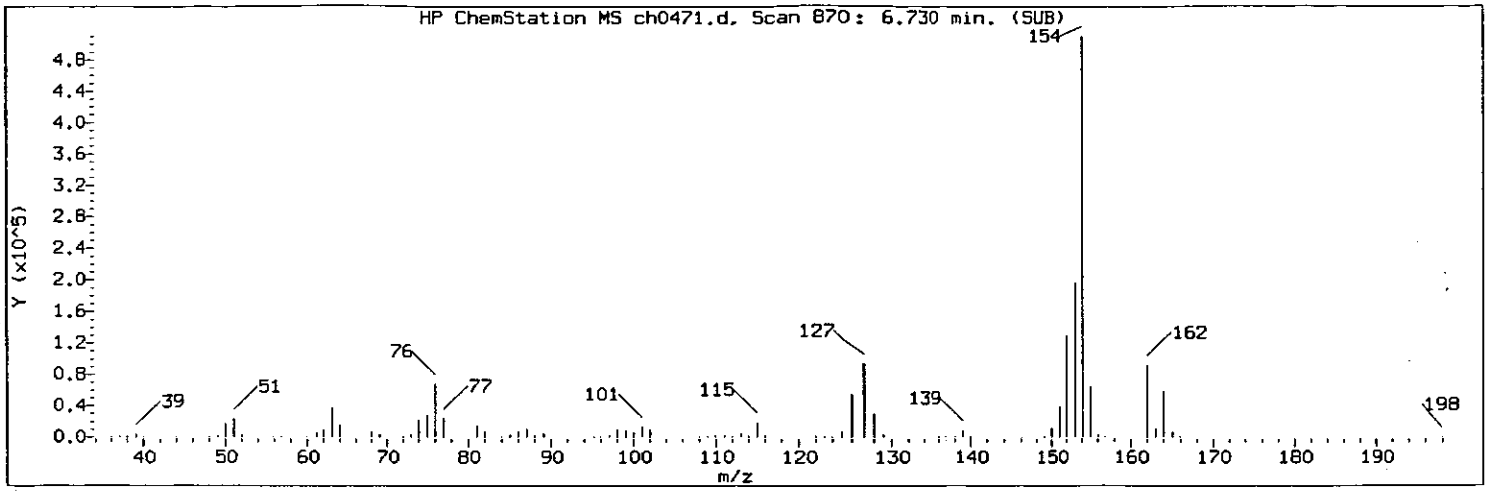
Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 870
Retention Time (minutes): 6.730
Quant Ion : 162
Area : 545041
Concentration (ng/ul) : 51.6186
Integration start scan : 867 Integration stop scan: 877
Y at integration start : 0 Y at integration end: 0

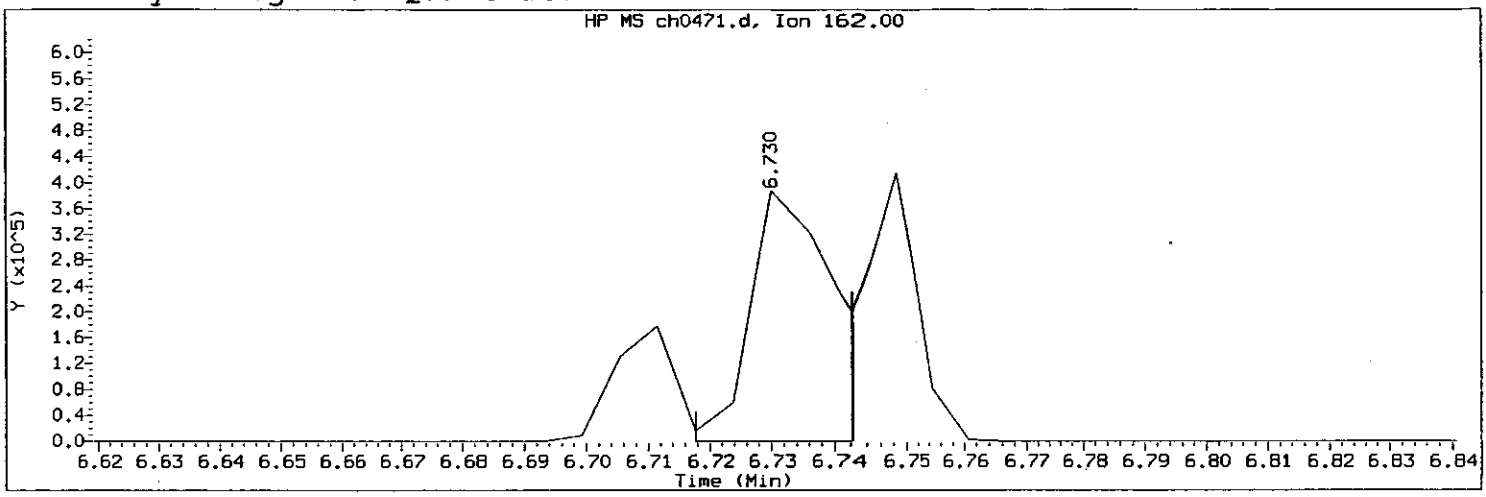
lmh 8654 08/15/07

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0471.d, generated on 08/15/2007 at 20:42

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

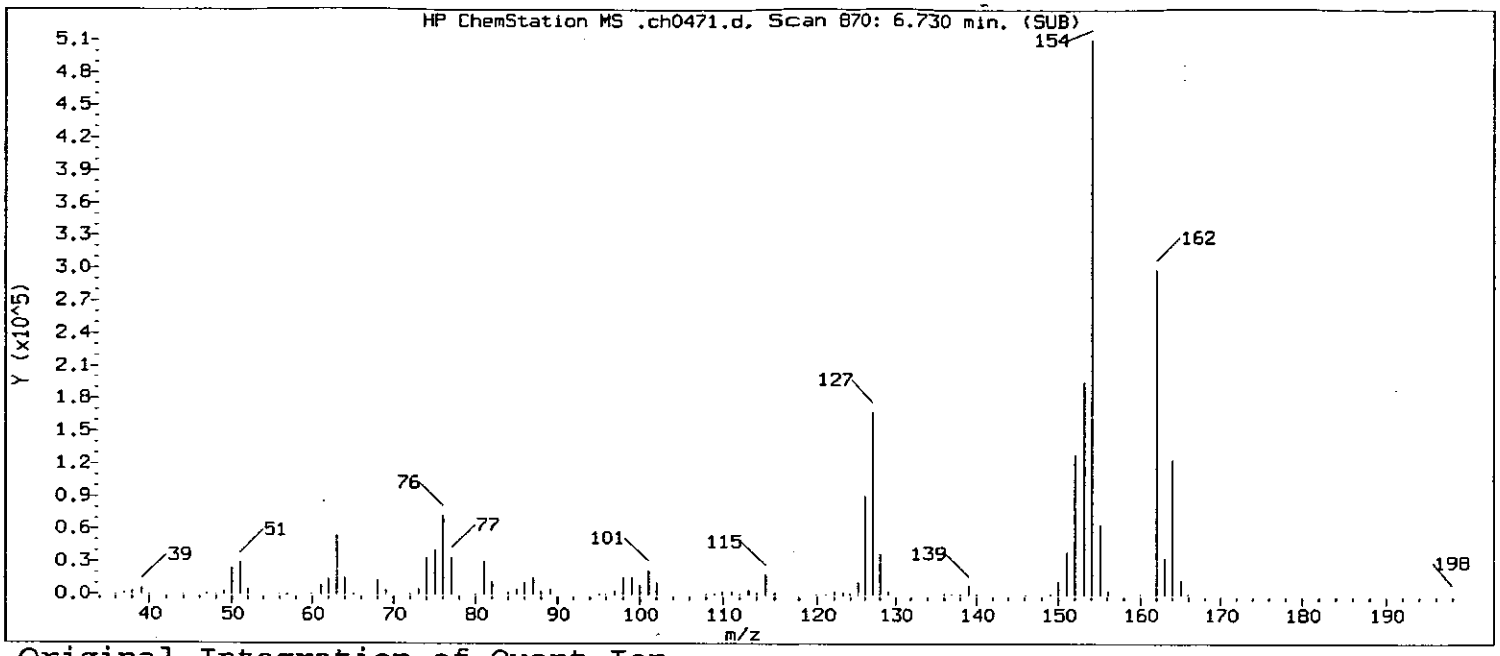
Compound Number : 71
Compound Name : 2-Chloronaphthalene
Scan Number : 870
Retention Time (minutes): 6.730
Quant Ion : 162
Area (flag) : 363868 M
Concentration (ng/ul) : 34.4605
Integration start scan : 867 Integration stop scan: 871
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one) : missed peak improper integratio

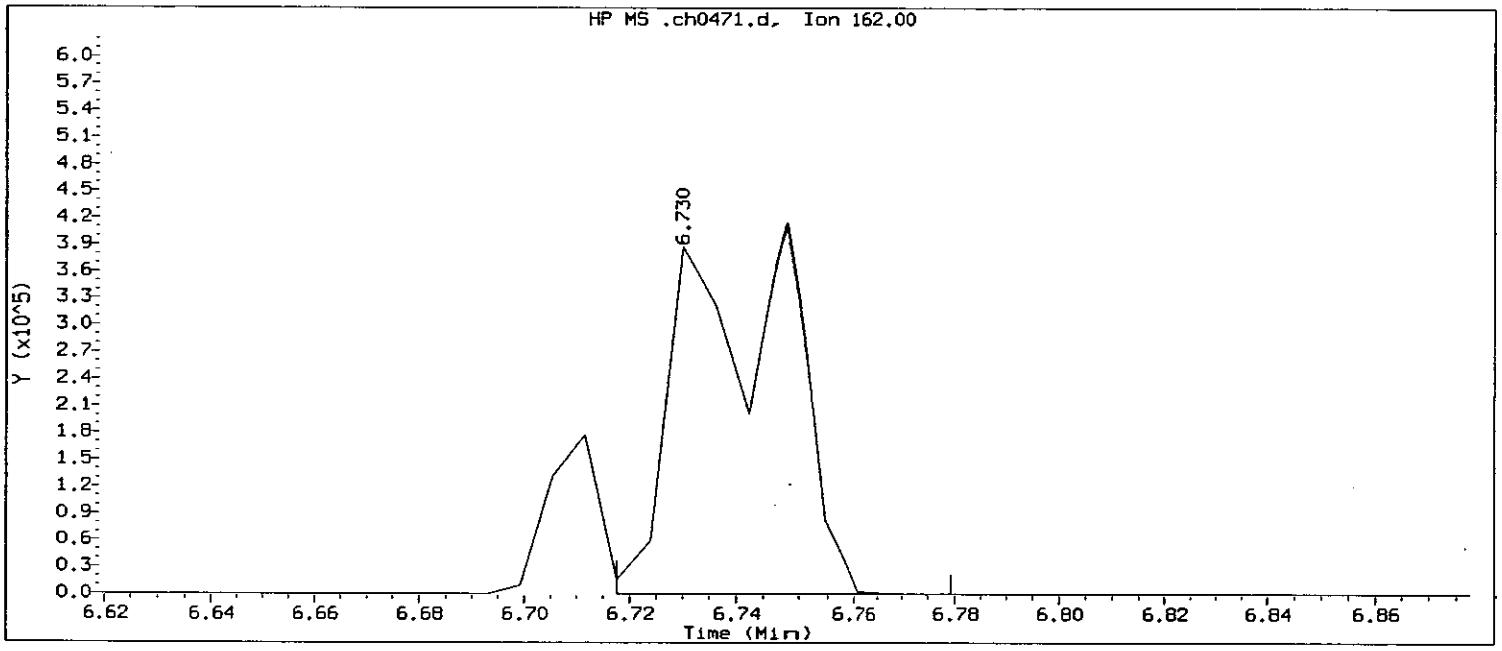
Analyst responsible for change: lmh 08/15/07

GC/MS audit/management approval: 8/16/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:23
Date, time and analyst ID of latest file update: 15-Aug-2007 20:23 Automation

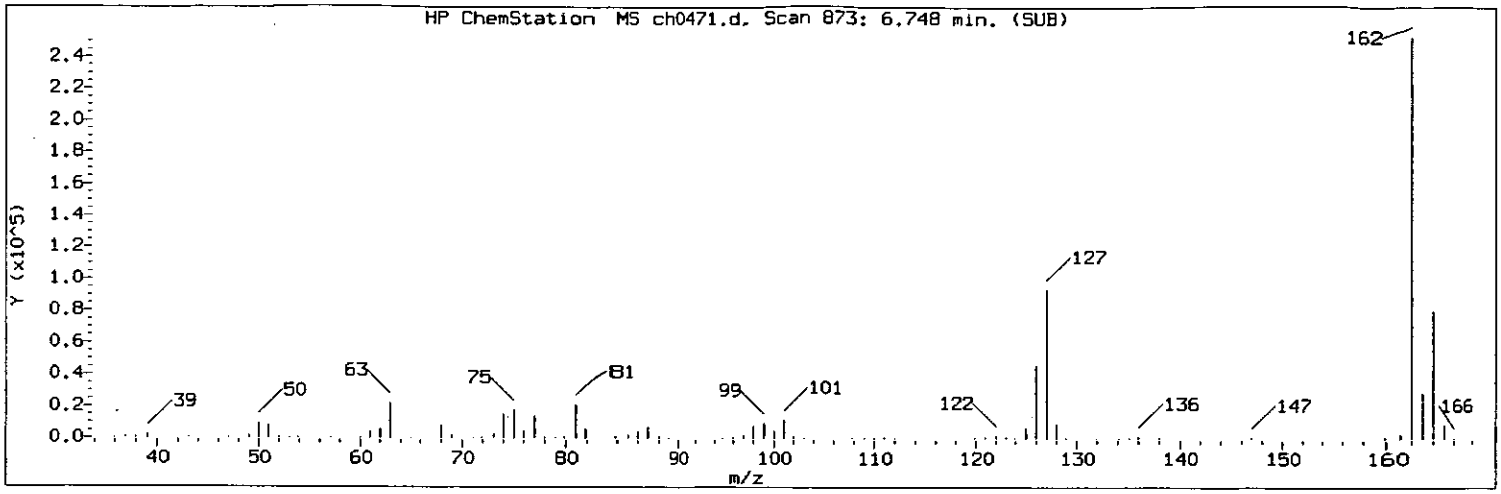
Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 870
Retention Time (minutes): 6.730
Quant Ion : 162
Area : 545041
Concentration (ng/ul) : 60.3014
Integration start scan : 867 Integration stop scan: 877
Y at integration start : 0 Y at integration end: 0

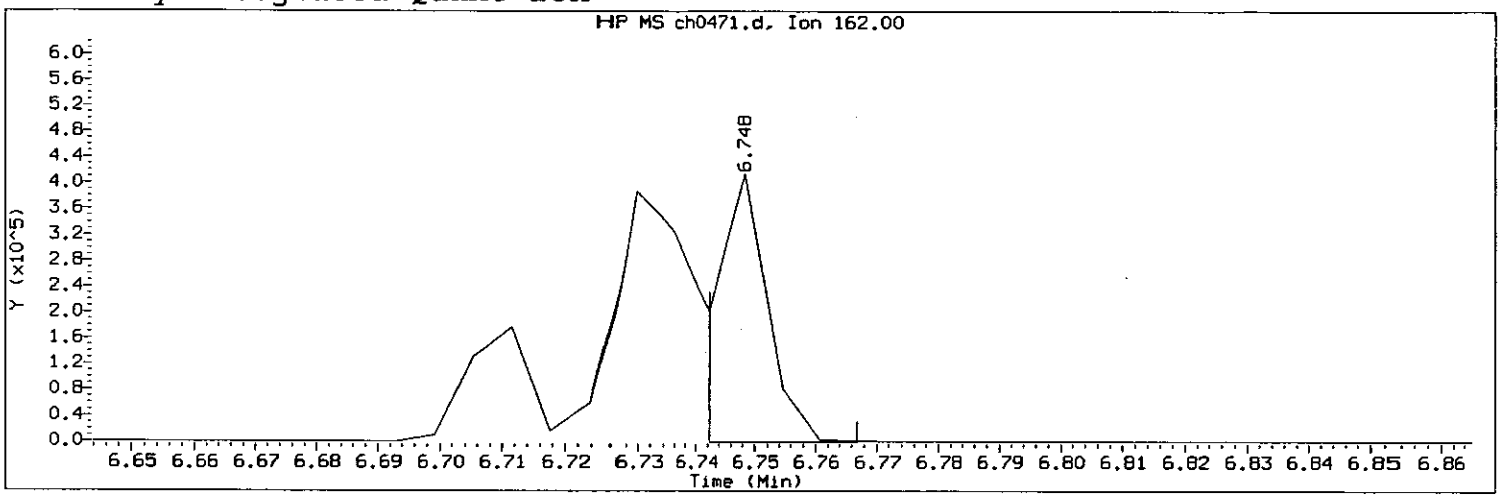
lmh19800815 07 8656

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0471.d, generated on 08/15/2007 at 20:42

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0471.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 20:08 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 20:42 lmh00956

Sample Name: SSTD030 Lab Sample ID: STD2187

Compound Number : 72
Compound Name : 1-Chloronaphthalene
Scan Number : 873
Retention Time (minutes): 6.748
Quant Ion : 162
Area (flag) : 260602 M
Concentration (ng/ul) : 28.8321
Integration start scan : 871 Integration stop scan: 875
Y at integration start : -1313 Y at integration end: -1313

Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: lmh 08/15/07

GC/MS audit/management approval: 0852 8/16/07

Manual Integration Report for data file /chem/HP10623.i/07aug15.b/ch0471.d, generated on 08/15/2007 at 20:42

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date: 08/03/07 Time: 19:56

Lab File ID: gh0151.d Init. Calib. Date(s): 07/30/07 07/30/07

Init. Calib. Times(s): 20:11 22:18

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,4-Dioxane	0.706	0.590	0.000	80.0	N/C
	N-Nitrosodimethylamine	1.062	1.026	77.330	80.0	-3
	Pyridine	1.951	1.888	77.410	80.0	-3
	2-Picoline	1.981	1.860	75.110	80.0	-6
	N-Nitrosomethylethylamine	0.943	0.902	76.540	80.0	-4
	Methyl methanesulfonate	0.818	0.756	73.900	80.0	-8
	N-Nitrosodiethylamine	0.968	0.935	77.250	80.0	-3
	Ethyl methanesulfonate	0.928	0.901	77.720	80.0	-3
	Aniline	3.100	2.915	75.220	80.0	-6
*	Phenol	2.709	2.614	77.200	80.0	-3*
	Pentachloroethane	0.537	0.541	80.680	80.0	1
	bis(2-Chloroethyl)ether	1.919	1.850	77.150	80.0	-4
	2-Chlorophenol	1.648	1.640	79.600	80.0	-1
	1,3-Dichlorobenzene	1.650	1.646	79.810	80.0	0
*	1,4-Dichlorobenzene	1.691	1.685	79.700	80.0	0*
	Benzyl alcohol	1.310	1.281	78.210	80.0	-2
	1,2-Dichlorobenzene	1.608	1.584	78.790	80.0	-2
	2-Methylphenol	1.850	1.791	77.440	80.0	-3
	2,2'-oxybis(1-Chloropropane)	2.111	1.916	72.640	80.0	-9
	bis(2-Chloroisopropyl)ether	2.111	1.916	72.640	80.0	-9
	N-Nitrosopyrrolidine	1.107	1.032	74.620	80.0	-7
	Acetophenone	2.669	2.475	74.200	80.0	-7
#	N-Nitroso-di-n-propylamine	1.319	1.122	68.040	80.0	-15#
	N-Nitrosomorpholine	0.961	0.809	67.360	80.0	-16
	4-Methylphenol	2.073	1.808	69.760	80.0	-13
	o-Toluidine	3.176	2.729	68.750	80.0	-14
	Hexachloroethane	0.663	0.644	77.640	80.0	-3
	Nitrobenzene	0.432	0.403	74.720	80.0	-7
	N-Nitrosopiperidine	0.218	0.216	79.400	80.0	-1
	Isophorone	0.859	0.808	75.210	80.0	-6
*	2-Nitrophenol	0.188	0.196	83.260	80.0	4*
	2,4-Dimethylphenol	0.429	0.419	78.190	80.0	-2
	O,O,O-triethylphosphorothioate	0.194	0.196	80.620	80.0	1
	bis(2-Chloroethoxy)methane	0.515	0.489	75.980	80.0	-5
	Benzoic acid	0.308	0.361	93.800	80.0	17
*	2,4-Dichlorophenol	0.321	0.330	82.250	80.0	3*

1970

8/3/07

8058

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date: 08/03/07 Time: 19:56

Lab File ID: gh0151.d Init. Calib. Date(s): 07/30/07 07/30/07

Init. Calib. Times(s): 20:11 22:18

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
	1,2,4-Trichlorobenzene	0.319	0.327	81.890	80.0	2
	Naphthalene	1.123	1.102	78.500	80.0	-2
	4-Chloroaniline	0.471	0.442	75.090	80.0	-6
	2,6-Dichlorophenol	0.305	0.297	77.940	80.0	-3
	Hexachloropropene	0.187	0.194	82.900	80.0	4
*	Hexachlorobutadiene	0.167	0.175	84.160	80.0	5*
	Caprolactam	0.164	0.163	79.530	80.0	-1
	N-Nitrosodi-n-butylamine	0.355	0.285	64.170	80.0	-20
*	4-Chloro-3-methylphenol	0.393	0.385	78.390	80.0	-2*
	Safrole	0.297	0.304	81.880	80.0	2
	2-Methylnaphthalene	0.740	0.722	78.030	80.0	-2
	1-Methylnaphthalene	0.733	0.720	78.630	80.0	-2
#	Hexachlorocyclopentadiene	0.262	0.283	86.370	80.0	8#
	1,2,4,5-Tetrachlorobenzene	0.482	0.494	81.900	80.0	2
	cis-Isosafrole	0.443	0.466	9.240	8.8	5
*	2,4,6-Trichlorophenol	0.340	0.364	85.490	80.0	7*
	2,4,5-Trichlorophenol	0.389	0.406	83.560	80.0	4
	trans-Isosafrole	0.580	0.600	73.600	71.2	3
	Isosafrole	0.516	0.534	82.690	80.0	3
	Biphenyl	1.470	1.405	76.470	80.0	-4
	Diphenyl	1.470	1.405	76.470	80.0	-4
	1,1'-Biphenyl	1.470	1.405	76.470	80.0	-4
	2-Chloronaphthalene	1.338	1.524	91.160	80.0	14
	Diphenyl ether	0.777	0.781	80.350	80.0	0
	2-Nitroaniline	0.403	0.420	83.350	80.0	4
	1,4-Naphthoquinone	0.423	0.441	83.530	80.0	4
	1,4-Dinitrobenzene	0.201	0.220	87.790	80.0	10
	Dimethylphthalate	1.302	1.295	79.570	80.0	-1
	1,3-Dinitrobenzene	0.234	0.245	83.780	80.0	5
	2,6-Dinitrotoluene	0.305	0.314	82.350	80.0	3
	Acenaphthylene	1.816	1.803	79.400	80.0	-1
	3-Nitroaniline	0.363	0.366	80.640	80.0	1
*	Acenaphthene	1.161	1.137	78.390	80.0	-2*
#	2,4-Dinitrophenol	0.164	0.201	86.940	80.0	9#
	Pentachlorobenzene	0.474	0.496	83.690	80.0	5
#	4-Nitrophenol	0.213	0.221	82.860	80.0	4#

0659

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date: 08/03/07 Time: 19:56

Lab File ID: gh0151.d Init. Calib. Date(s): 07/30/07 07/30/07

Init. Calib. Times(s): 20:11 22:18

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
	Dibenzofuran	1.630	1.619	79.470	80.0	-1
	2,4-Dinitrotoluene	0.400	0.416	83.080	80.0	4
	1-Naphthylamine	1.228	1.148	74.760	80.0	-7
	2,3,4,6-Tetrachlorophenol	0.303	0.323	85.190	80.0	6
	2-Naphthylamine	1.268	1.191	75.160	80.0	-6
	Diethylphthalate	1.236	1.225	79.260	80.0	-1
	Thionazin	0.245	0.209	68.330	80.0	-15
	Fluorene	1.322	1.261	76.300	80.0	-5
	4-Chlorophenyl-phenylether	0.627	0.603	76.960	80.0	-4
	5-Nitro-o-toluidine	0.404	0.406	80.390	80.0	0
	4-Nitroaniline	0.388	0.382	78.800	80.0	-2
	4,6-Dinitro-2-methylphenol	0.129	0.145	79.570	80.0	-1
	1-Nitronaphthalene	0.146	0.144	78.680	80.0	-2
*	N-Nitrosodiphenylamine (1)	0.534	0.525	78.580	80.0	-2*
	1,2-Diphenylhydrazine	0.795	0.707	71.180	80.0	-11
	Tetraethyldithiopyrophosphate	0.121	0.108	71.360	80.0	-11
	1,3,5-Trinitrobenzene	0.076	0.090	81.710	80.0	2
	Diallate (peak 1)	0.375	0.336	53.890	60.0	-10
	Phorate	0.530	0.567	75.180	80.0	-6
	Phenacetin	0.411	0.379	73.940	80.0	-8
	4-Bromophenyl-phenylether	0.198	0.195	78.970	80.0	-1
	Diallate (peak 2)	0.370	0.348	18.820	20.0	-6
	Hexachlorobenzene	0.224	0.230	82.090	80.0	3
	Dimethoate	0.290	0.300	82.500	80.0	3
	Diallate TRANS/CIS	0.373	0.339	72.700	80.0	-9
*	Pentachlorophenol	0.136	0.154	90.240	80.0	13*
	Pentachloronitrobenzene	0.084	0.080	75.910	80.0	-5
	4-Aminobiphenyl	0.668	0.610	72.980	80.0	-9
	Pronamide	0.300	0.296	79.160	80.0	-1
	Dinoseb	0.162	0.187	78.180	80.0	-2
	Phenanthrene	1.105	1.055	76.390	80.0	-5
	Anthracene	1.129	1.098	77.810	80.0	-3
	Carbazole	1.052	1.026	78.020	80.0	-2
	Methyl parathion	0.225	0.234	83.120	80.0	4
	Di-n-butylphthalate	1.160	1.145	78.970	80.0	-1
	Parathion	0.156	0.151	77.140	80.0	-4

9668

(1) Cannot be Separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date: 08/03/07 Time: 19:56

Lab File ID: gh0151.d Init. Calib. Date(s): 07/30/07 07/30/07

Init. Calib. Times(s): 20:11 22:18

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

	COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
	4-Nitroquinoline-1-oxide	0.074	0.095	86.190	80.0	8
	Methapyrilene	0.291	0.319	103.030	80.0	29
	Isodrin	0.111	0.108	77.400	80.0	-3
*	Fluoranthene	1.223	1.211	79.210	80.0	-1*
	Benzidine	0.676	0.713	253.270	240.0	6
	Pyrene	1.264	1.347	85.240	80.0	7
	p-Dimethylaminoazobenzene	0.265	0.295	89.110	80.0	11
	Chlorobenzilate	0.358	0.370	82.780	80.0	3
	3,3'-Dimethylbenzidine	0.583	0.679	93.070	80.0	16
	Butylbenzylphthalate	0.528	0.559	84.770	80.0	6
	2-Acetylaminofluorene	0.466	0.554	95.050	80.0	19
	3,3'-Dichlorobenzidine	0.436	0.464	85.030	80.0	6
	4,4'-Methylenebis(2-Chloroanil	0.219	0.221	80.620	80.0	1
	Benzo(a)anthracene	1.186	1.168	78.770	80.0	-2
	Chrysene	1.132	1.247	88.070	80.0	10
	bis(2-Ethylhexyl)phthalate	0.706	0.749	84.870	80.0	6
	6-Methylchrysene	0.815	0.934	91.700	80.0	15
	Dibenz(a,h)acridine	1.084	1.122	82.820	80.0	4
*	Di-n-octylphthalate	1.429	1.425	79.740	80.0	0*
	Dibenz(a,j)acridine	1.034	1.113	86.090	80.0	8
	7,12-Dimethylbenz[a]anthracene	0.715	0.714	79.870	80.0	0
	Benzo(b)fluoranthene	1.451	1.456	80.250	80.0	0
	Ronnel	0.254	0.272	85.620	80.0	7
	Benzo(k)fluoranthene	1.473	1.460	79.290	80.0	-1
*	Benzo(a)pyrene	1.317	1.375	83.470	80.0	4*
	3-Methylcholanthrene	0.752	0.780	82.980	80.0	4
	Indeno(1,2,3-cd)pyrene	1.455	1.536	84.470	80.0	6
	Dibenz(a,h)anthracene	1.198	1.244	83.060	80.0	4
	Benzo(g,h,i)perylene	1.224	1.302	85.080	80.0	6
	1-Chloronaphthalene	1.077	1.008	74.890	80.0	-6
	2-Fluorophenol	1.652	1.666	80.640	80.0	1
	Phenol-d5	2.325	2.246	77.280	80.0	-3
	Phenol-d6	2.325	2.246	77.280	80.0	-3
	Nitrobenzene-d5	0.429	0.406	75.680	80.0	-5
	2-Fluorobiphenyl	1.234	1.239	80.330	80.0	0

0061

7C cont

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP11165 Calibration Date: 08/03/07 Time: 19:56

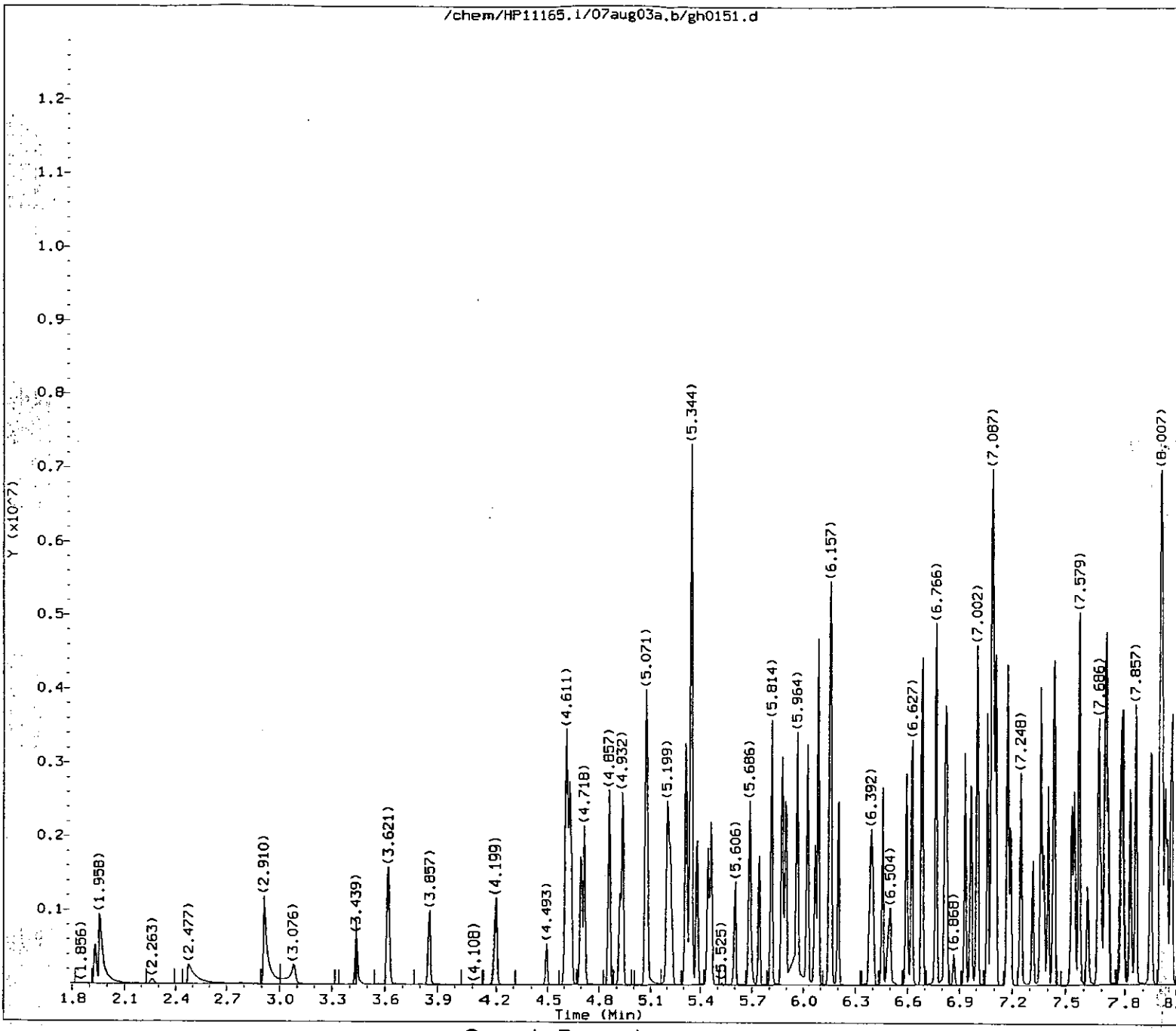
Lab File ID: gh0151.d Init. Calib. Date(s): 07/30/07 07/30/07

Init. Calib. Times(s): 20:11 22:18

Min RRF for SPCC(#) = 0.050 Max %Drift for CCC(*) = 20%

COMPOUND	RRF	RRF80	ACTUAL CONC.	TRUE CONC.	% DRIFT
2,4,6-Tribromophenol	0.178	0.194	87.030	80.0	9
Terphenyl-d14	0.821	0.905	88.230	80.0	10
			Average %Drift:		5

8662



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

0663

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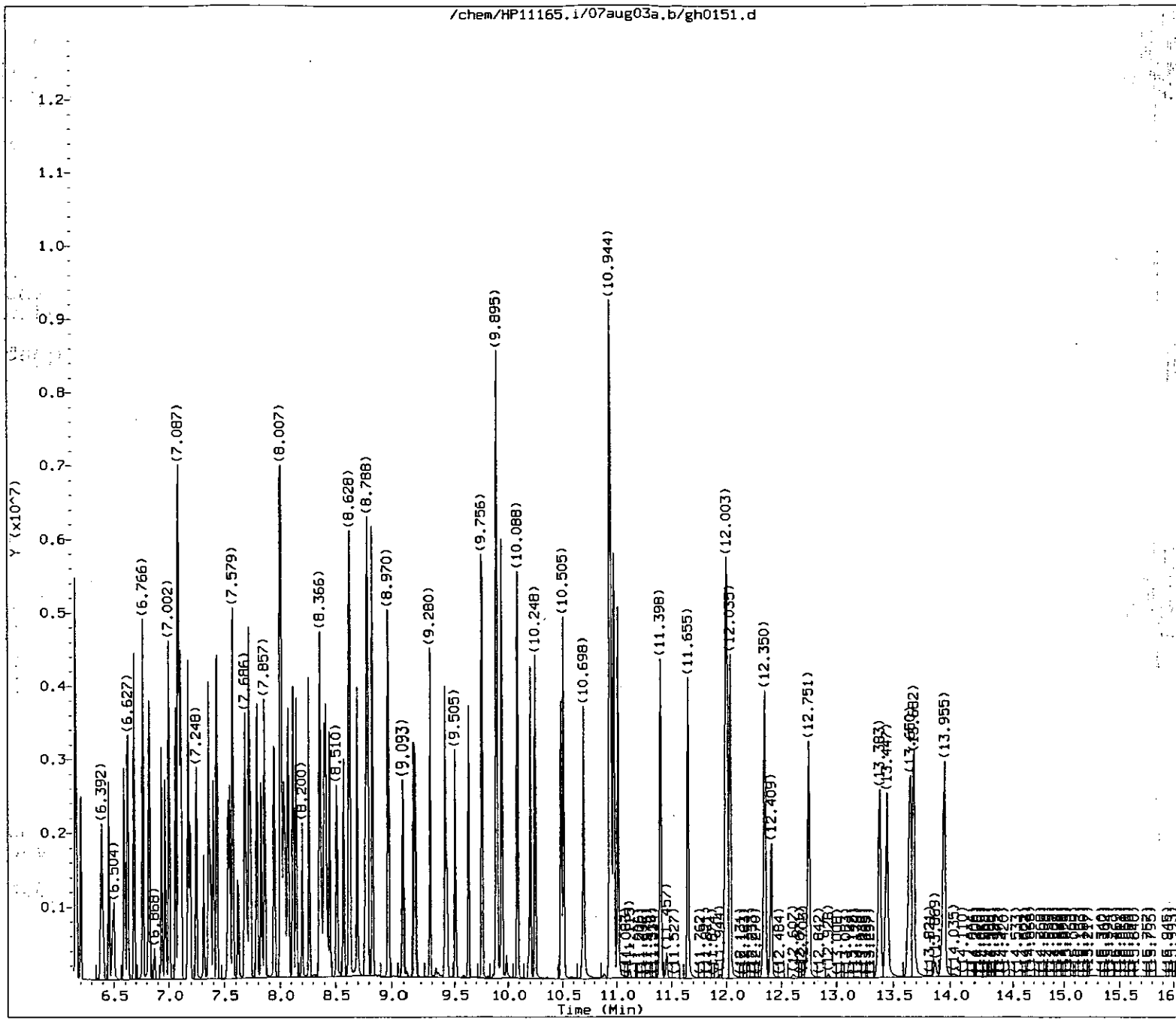
8/3/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

8664 GJ 8/3/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) N-Nitrosodimethylamine	(1)	1.931	74	341491	77.326
3) Pyridine	(1)	1.958	79	628360	77.405
5) 2-Picoline	(1)	2.910	93	619002	75.108
6) N-Nitrosomethylethylamine	(1)	3.076	88	300125	76.537
7) Methyl methanesulfonate	(1)	3.439	80	251499	73.898
10) N-Nitrosodiethylamine	(1)	3.857	102	311117	77.254
11) Ethyl methanesulfonate	(1)	4.199	109	299931	77.723
13) Aniline	(1)	4.611	93	970050	75.224
16) Phenol	(1)	4.632	94	869937	77.204
17) Pentachloroethane	(1)	4.643	167	180153	80.677
18) bis(2-Chloroethyl)ether	(1)	4.696	93	615786	77.150
19) 2-Chlorophenol	(1)	4.718	128	545841	79.596
20) 1,3-Dichlorobenzene	(1)	4.857	146	547764	79.807
21) 1,4-Dichlorobenzene-d4	(1)	4.916	152	166406	40.000
22) 1,4-Dichlorobenzene	(1)	4.932	146	560662	79.697
24) Benzyl alcohol	(1)	5.076	108	426393	78.213
25) 1,2-Dichlorobenzene	(1)	5.071	146	527016	78.787
26) 2-Methylphenol	(1)	5.199	108	595919M	77.444
27) 2,2'-oxybis(1-Chloropropane)	(1)	5.210	45	637816	72.640
28) bis(2-Chloroisopropyl)ether	(1)	5.210	45	637816	72.640
29) N-Nitrosopyrrolidine	(1)	5.311	100	343588	74.618
30) Acetophenone	(1)	5.317	105	823685	74.196
31) N-Nitroso-di-n-propylamine	(1)	5.338	70	373281	68.042
32) N-Nitrosomorpholine	(1)	5.354	56	269395	67.359
33) 4-Methylphenol	(1)	5.344	108	601749	69.761
34) o-Toluidine	(1)	5.344	106	908374	68.751
37) Hexachloroethane	(1)	5.376	117	214219	77.636
39) Nitrobenzene	(2)	5.461	77	601787	74.717
40) N-Nitrosopiperidine	(2)	5.606	114	322609	79.403
41) Isophorone	(2)	5.686	82	1205316	75.211
42) 2-Nitrophenol	(2)	5.745	139	292497	83.262
44) 2,4-Dimethylphenol	(2)	5.814	107	625276	78.192
45) O,O,O-triethylphosphorothioate	(2)	5.878	198	292010	80.623
46) bis(2-Chloroethoxy)methane	(2)	5.894	93	729610	75.983
47) Benzoic acid	(2)	5.964	105	538461	93.796
49) 2,4-Dichlorophenol	(2)	5.964	162	492314	82.250
50) 1,2,4-Trichlorobenzene	(2)	6.023	180	487635	81.890
52) Naphthalene-d8	(2)	6.066	136	745919	40.000
53) Naphthalene	(2)	6.087	128	1644212	78.498
55) 4-Chloroaniline	(2)	6.157	127	659915	75.088
56) 2,6-Dichlorophenol	(2)	6.157	162	443170	77.938
57) Hexachloropropene	(2)	6.162	213	289131	82.902
59) Hexachlorobutadiene	(2)	6.205	225	261801	84.156

M = Compound was manually integrated. A = User selected an alternate h

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
62) Caprolactam	(2)	6.504	113	243374	79.528
63) N-Nitrosodi-n-butylamine	(2)	6.456	84	424617	64.170
67) 4-Chloro-3-methylphenol	(2)	6.595	107	573794	78.389
68) Safrole	(2)	6.627	162	454094	81.881
69) 2-Methylnaphthalene	(2)	6.686	142	1077532	78.033
70) 1-Methylnaphthalene	(2)	6.766	142	1074118	78.629
71) Hexachlorocyclopentadiene	(3)	6.814	237	275223	86.371
72) 1,2,4,5-Tetrachlorobenzene	(3)	6.825	216	479305	81.904
73) cis-Isosafrole	(3)	6.868	162	49754	9.243
74) 2,4,6-Trichlorophenol	(3)	6.932	196	353141	85.495
76) 2,4,5-Trichlorophenol	(3)	6.970	196	394297	83.558
78) trans-Isosafrole	(3)	7.060	162	518247	73.598
79) Isosafrole	(3)	7.060	162	518247	82.694
80) Biphenyl	(3)	7.082	154	1364685	76.469
81) Diphenyl	(3)	7.082	154	1364685	76.469
82) 1,1'-Biphenyl	(3)	7.082	154	1364685	76.469
83) 2-Chloronaphthalene	(3)	7.093	162	1480175M	91.157
87) Diphenyl ether	(3)	7.173	170	758106	80.353
88) 2-Nitroaniline	(3)	7.194	138	408018	83.355
89) 1,4-Naphthoquinone	(3)	7.248	158	428650	83.531
90) 1,4-Dinitrobenzene	(3)	7.317	168	214126	87.786
91) Dimethylphthalate	(3)	7.360	163	1257848	79.571
92) 1,3-Dinitrobenzene	(3)	7.376	168	237901	83.779
93) 2,6-Dinitrotoluene	(3)	7.403	165	304582	82.353
94) Acenaphthylene	(3)	7.435	152	1750519	79.401
96) 3-Nitroaniline	(3)	7.536	138	355143	80.643
97) Acenaphthene-d10	(3)	7.547	164	485559	40.000
98) Acenaphthene	(3)	7.579	153	1104468	78.394
99) 2,4-Dinitrophenol	(3)	7.627	184	195591	86.942
100) Pentachlorobenzene	(3)	7.686	250	481232	83.694
102) 4-Nitrophenol	(3)	7.697	109	214338	82.856
103) Dibenzofuran	(3)	7.724	168	1572244	79.467
104) 2,4-Dinitrotoluene	(3)	7.734	165	403694	83.081
105) 1-Naphthylamine	(3)	7.793	143	1114703	74.757
106) 2,3,4,6-Tetrachlorophenol	(3)	7.831	232	313474	85.191
107) 2-Naphthylamine	(3)	7.857	143	1156598	75.161
108) Diethylphthalate	(3)	7.948	149	1189393	79.262
109) Thionazin	(3)	8.007	107	203350	68.335
110) Fluorene	(3)	8.002	166	1224900	76.303
111) 4-Chlorophenyl-phenylether	(3)	8.013	204	585603	76.962
112) 5-Nitro-o-toluidine	(3)	8.034	152	394355	80.391
113) 4-Nitroaniline	(3)	8.050	138	371387	78.800
114) 4,6-Dinitro-2-methylphenol	(4)	8.066	198	263683	79.571

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
115)	1-Nitronaphthalene	(4)	8.077	173	260789	78.677
116)	N-Nitrosodiphenylamine	(4)	8.119	169	951952	78.577
117)	1,2-Diphenylhydrazine	(4)	8.146	77	1283129	71.180
119)	Tetraethyldithiopyrophosphate	(4)	8.264	97	195923	71.362
120)	1,3,5-Trinitrobenzene	(4)	8.371	213	162470	81.706
121)	Diallate (peak 1)	(4)	8.355	86	457767	53.892
122)	Phorate	(4)	8.366	75	1028643	75.176
123)	Phenacetin	(4)	8.403	108	688422	73.942
124)	4-Bromophenyl-phenylether	(4)	8.414	248	354041	78.972
125)	Diallate (peak 2)	(4)	8.424	86	157810	18.818
126)	Hexachlorobenzene	(4)	8.446	284	416617	82.086
127)	Dimethoate	(4)	8.510	87	543557	82.500
128)	Diallate TRANS/CIS	(4)	23.156	86	615577	72.702
130)	Pentachlorophenol	(4)	8.617	266	278645	90.237
131)	Pentachloronitrobenzene	(4)	8.628	237	144688	75.908
132)	4-Aminobiphenyl	(4)	8.628	169	1105794	72.983
133)	Pronamide	(4)	8.697	173	537844	79.158
134)	Phenanthrene-d10	(4)	8.767	188	907065	40.000
135)	Dinoseb	(4)	8.783	211	338488	78.179
136)	Phenanthrene	(4)	8.788	178	1914328	76.393
137)	Anthracene	(4)	8.831	178	1992148	77.811
139)	Carbazole	(4)	8.970	167	1861660	78.015
140)	Methyl parathion	(4)	9.093	109	424937	83.125
141)	Di-n-butylphthalate	(4)	9.286	149	2077736	78.972
142)	Parathion	(4)	9.419	109	273073	77.139
143)	4-Nitroquinoline-1-oxide	(4)	9.435	190	171507	86.185
144)	Methapyrilene	(4)	9.505	97	579506	103.032
145)	Isodrin	(4)	9.628	193	195206	77.402
146)	Fluoranthene	(4)	9.756	202	2196543	79.209
151)	Benzidine	(5)	9.895	184	3479746	253.270
153)	Pyrene	(5)	9.943	202	2189428	85.242
157)	p-Dimethylaminoazobenzene	(5)	10.205	225	480083	89.111
158)	Chlorobenzilate	(5)	10.248	139	602060	82.780
159)	3,3'-Dimethylbenzidine	(5)	10.484	212	1103336	93.072
160)	Butylbenzylphthalate	(5)	10.505	149	908930	84.770
161)	2-Acetylaminofluorene	(5)	10.698	181	900006	95.045
163)	3,3'-Dichlorobenzidine	(5)	10.938	252	753794	85.032
164)	4,4'-Methylenebis(2-Chloroanil	(5)	10.944	231	359075	80.618
165)	Benzo(a)anthracene	(5)	10.944	228	1898575	78.770
166)	Chrysene-d12	(5)	10.954	240	812907	40.000
167)	Chrysene	(5)	10.976	228	2026741	88.073
168)	bis(2-Ethylhexyl)phthalate	(5)	11.013	149	1217535	84.873
188)	6-Methylchrysene	(5)	11.404	242	1519319	91.696

M = Compound was manually integrated. A = User selected an alternate hi

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

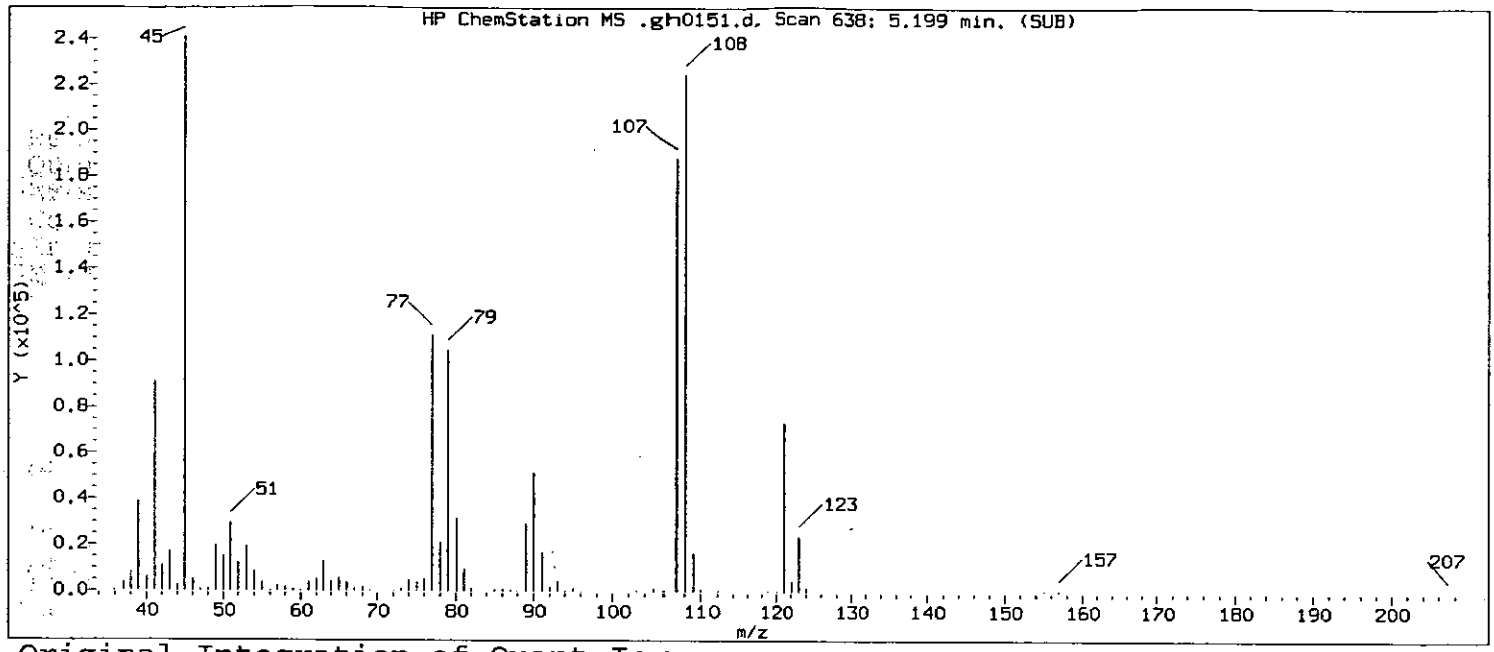
Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

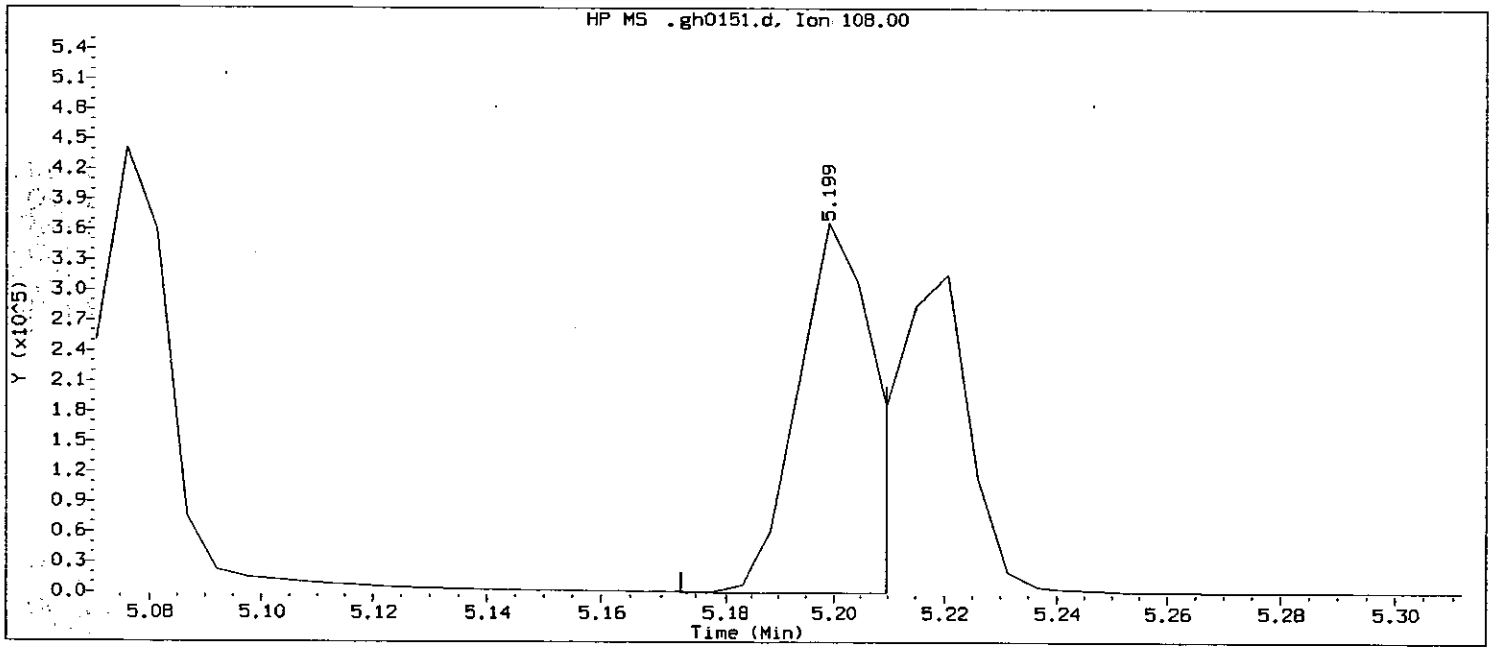
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
169)	Di-n-octylphthalate	(6)	11.655	149	2048298	79.737
189)	Dibenz(a,h)acridine	(6)	13.383	279	1613456	82.817
190)	Dibenz(a,j)acridine	(6)	13.447	279	1599840	86.093
170)	7,12-Dimethylbenz[a]anthracene	(6)	12.003	256	1026646	79.873
171)	Benzo(b)fluoranthene	(6)	12.008	252	2092538	80.255
194)	Ronnel	(4)	9.168	285	493266	85.620
172)	Benzo(k)fluoranthene	(6)	12.035	252	2098397	79.291
173)	Benzo(a)pyrene	(6)	12.350	252	1976206	83.472
174)	Perylene-d12	(6)	12.409	264	718802	40.000
175)	3-Methylcholanthrene	(6)	12.751	268	1121182	82.981
176)	Indeno(1,2,3-cd)pyrene	(6)	13.650	276	2207939	84.466
177)	Dibenz(a,h)anthracene	(6)	13.682	278	1788706	83.057
178)	Benzo(g,h,i)perylene	(6)	13.955	276	1871704	85.078
84)	1-Chloronaphthalene	(3)	7.109	162	978613M	74.886
9)	2-Fluorophenol	(1)	3.621	112	554345	80.640
14)	Phenol-d5	(1)	4.616	99	747491	77.281
15)	Phenol-d6	(1)	4.616	99	747491	77.281
38)	Nitrobenzene-d5	(2)	5.445	82	605357	75.677
77)	2-Fluorobiphenyl	(3)	7.002	172	1203506	80.329
118)	2,4,6-Tribromophenol	(3)	8.205	330	188116	87.025
155)	Terphenyl-d14	(5)	10.088	244	1471225	88.234

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:17
Date, time and analyst ID of latest file update: 03-Aug-2007 20:18 gjd01970

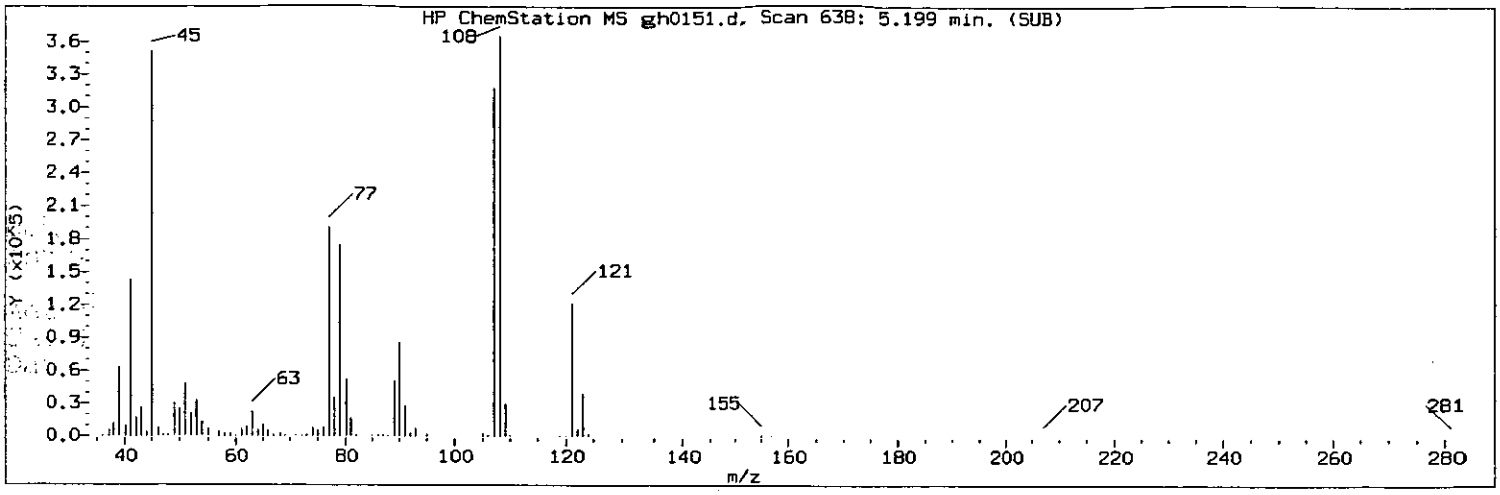
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number : 26
Compound Name : 2-Methylphenol
Scan Number : 638
Retention Time (minutes): 5.199
Quant Ion : 108
Area : 336887
Concentration (ng/ul) : 43.7805
Integration start scan : 632 Integration stop scan: 639
Y at integration start : 0 Y at integration end: 0

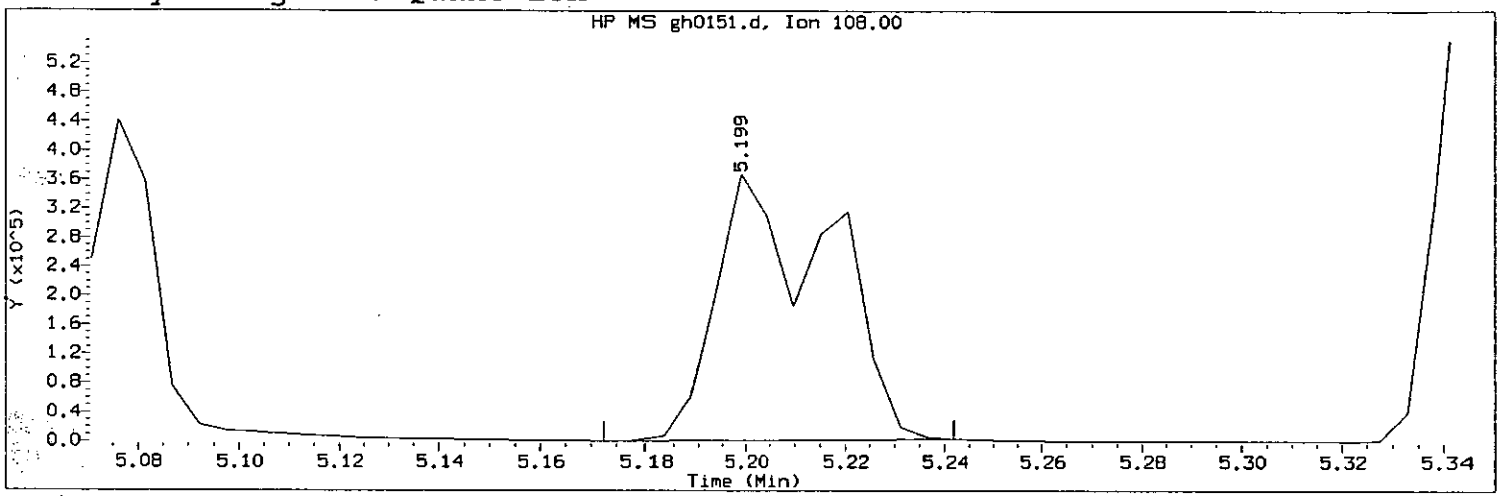
0669 GJ 8/3/07

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0151.d, generated on 08/03/2007 at 20:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number : 26
Compound Name : 2-Methylphenol
Scan Number : 638
Retention Time (minutes): 5.199
Quant Ion : 108
Area (flag) : 595919 M
Concentration (ng/ul) : 77.4436
Integration start scan : 632 Integration stop scan: 645
Y at integration start : 1203 Y at integration end: 3368

Reason for manual integration (circle one): missed peak improper integrati

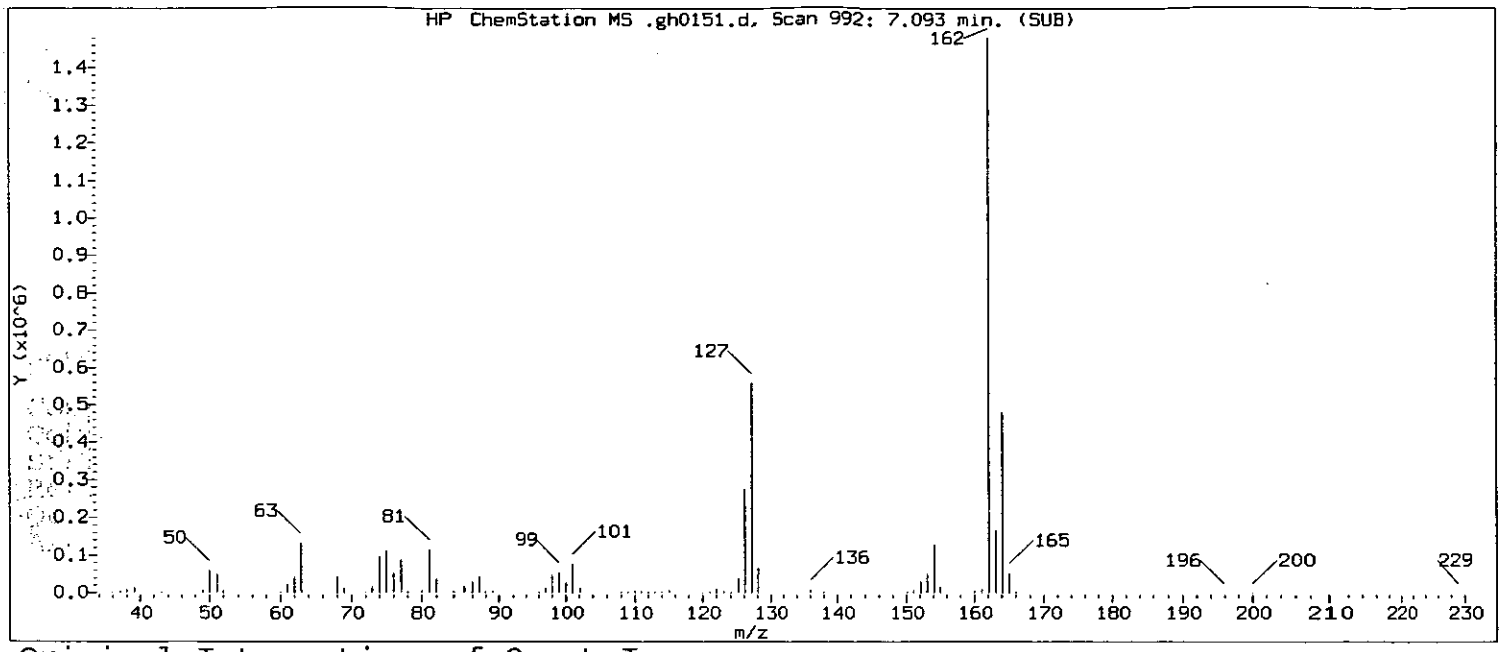
Analyst responsible for change: 1470 8/3/07

8670

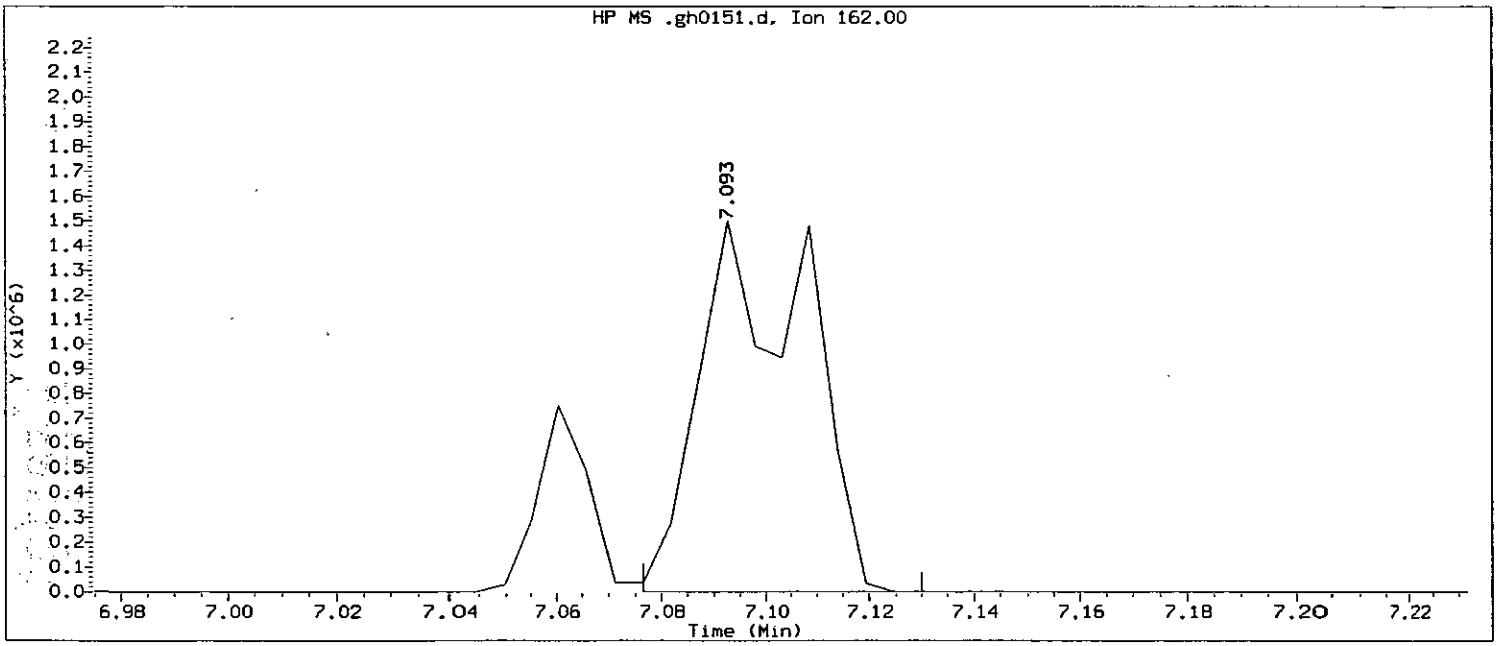
GC/MS audit/management approval: 8/6/07

Manual Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0151.d, generated on 08/03/2007 at 20:20

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjdO1970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all
Calibration date and time: 03-AUG-2007 20:17
Date, time and analyst ID of latest file update: 03-Aug-2007 20:18 gjd01970

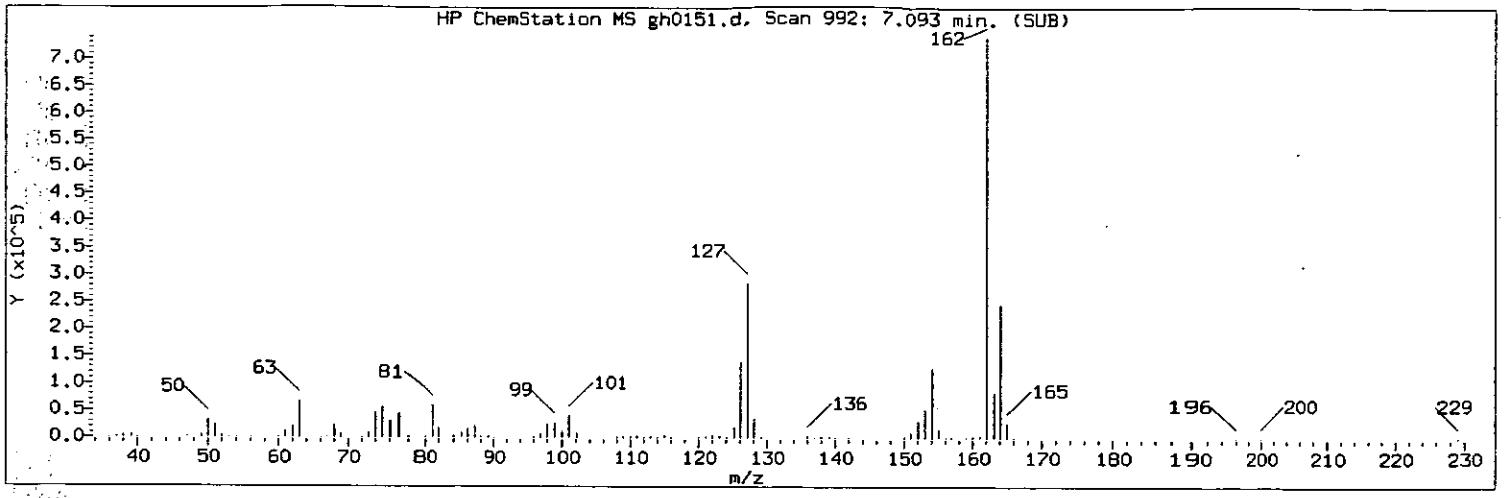
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 992
Retention Time (minutes): 7.093
Quant Ion : 162
Area : 2148676
Concentration (ng/ul) : 132.3269
Integration start scan : 988 Integration stop scan: 998
Y at integration start : 88 Y at integration end: 72

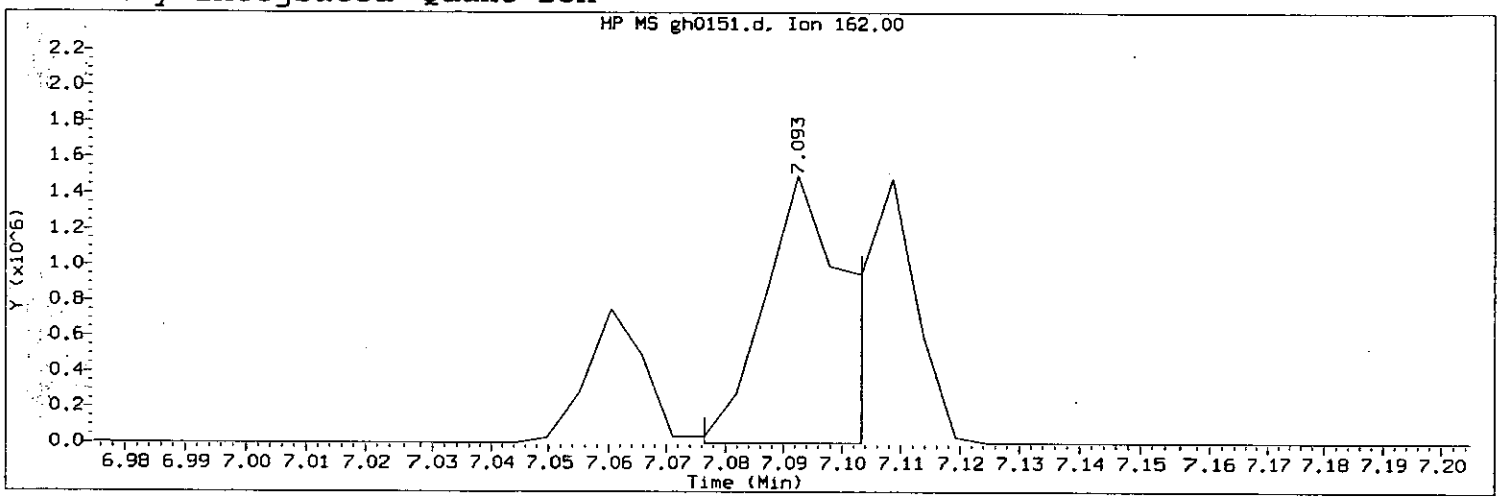
8671 GBM 8/3/07

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0151.d, generated on 08/03/2007 at 20:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

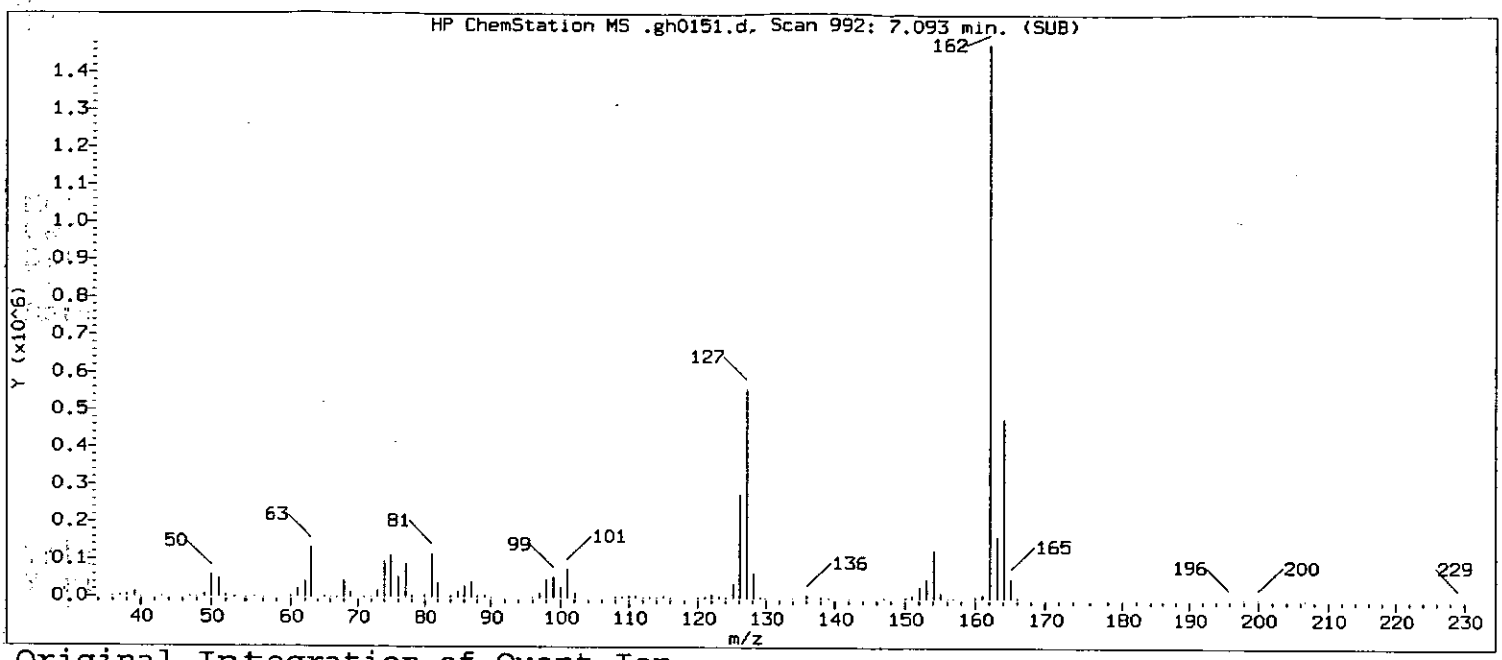
Compound Number : 83
Compound Name : 2-Chloronaphthalene
Scan Number : 992
Retention Time (minutes): 7.093
Quant Ion : 162
Area (flag) : 1480175 M
Concentration (ng/ul) : 91.1571
Integration start scan : 988 Integration stop scan: 993
Y at integration start : 88 Y at integration end: 80

Reason for manual integration (circle one): missed peak (improper integrati

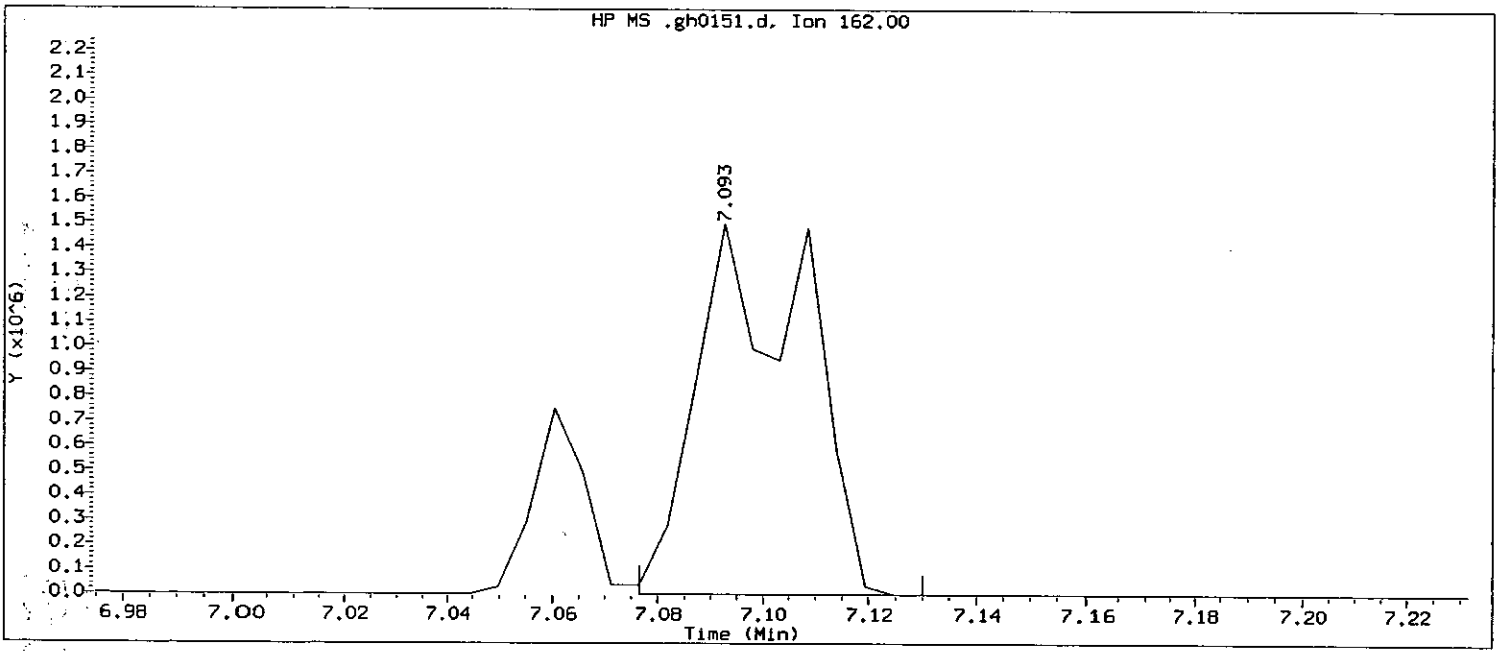
Analyst responsible for change: 1970 8/3/07

GC/MS audit/management approval: 8672 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:17
Date, time and analyst ID of latest file update: 03-Aug-2007 20:18 gjd01970

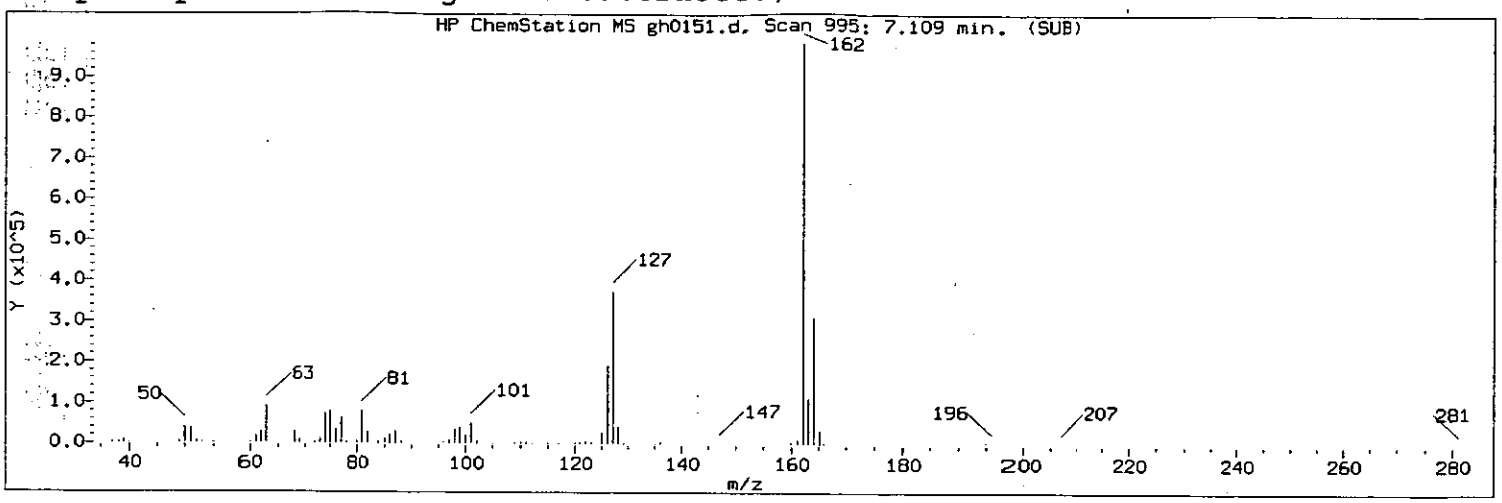
Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number : 84
Compound Name : 1-Chloronaphthalene
Scan Number : 992
Retention Time (minutes): 7.093
Quant Ion : 162
Area : 2148532
Concentration (ng/ul) : 164.4109
Integration start scan : 988 Integration stop scan: 998
Y at integration start : 134 Y at integration end: 119

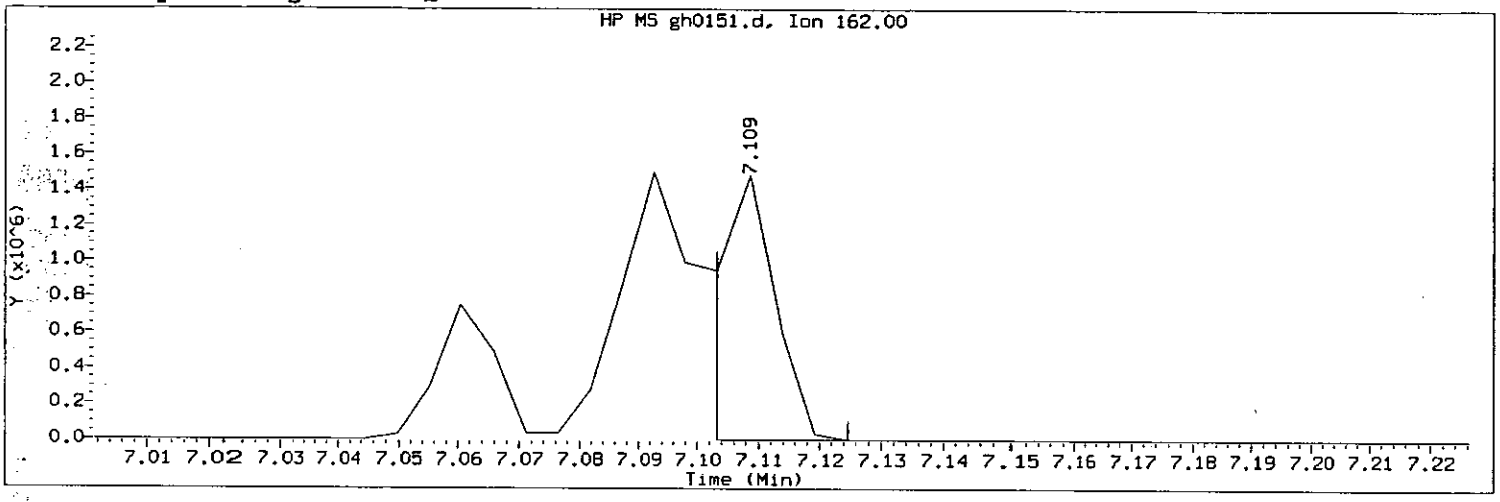
0673 8/4/70 9/3/7

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0151.d, generated on 08/03/2007 at 20:20

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0151.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 19:56 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:20
Date, time and analyst ID of latest file update: 03-Aug-2007 20:20 gjd01970

Sample Name: SSTD080 Lab Sample ID: STD2057

Compound Number	: 84		
Compound Name	: 1-Chloronaphthalene		
Scan Number	: 995		
Retention Time (minutes)	: 7.109		
Quant Ion	: 162		
Area (flag)	: 978613	M	
Concentration (ng/ul)	: 74.8859		
Integration start scan	: 993	Integration stop scan:	997
Y at integration start	: -385	Y at integration end:	-385

Reason for manual integration (circle one): missed peak (improper integrati

Analyst responsible for change: 1970 8/3/07

8674

GC/MS audit/management approval: 8/6/07

Raw QC Data

Data File: /chem/HP10623.i/07aug05.b/ch0100y.d

Date : 05-AUG-2007 06:15

Client ID: 50NG/UL

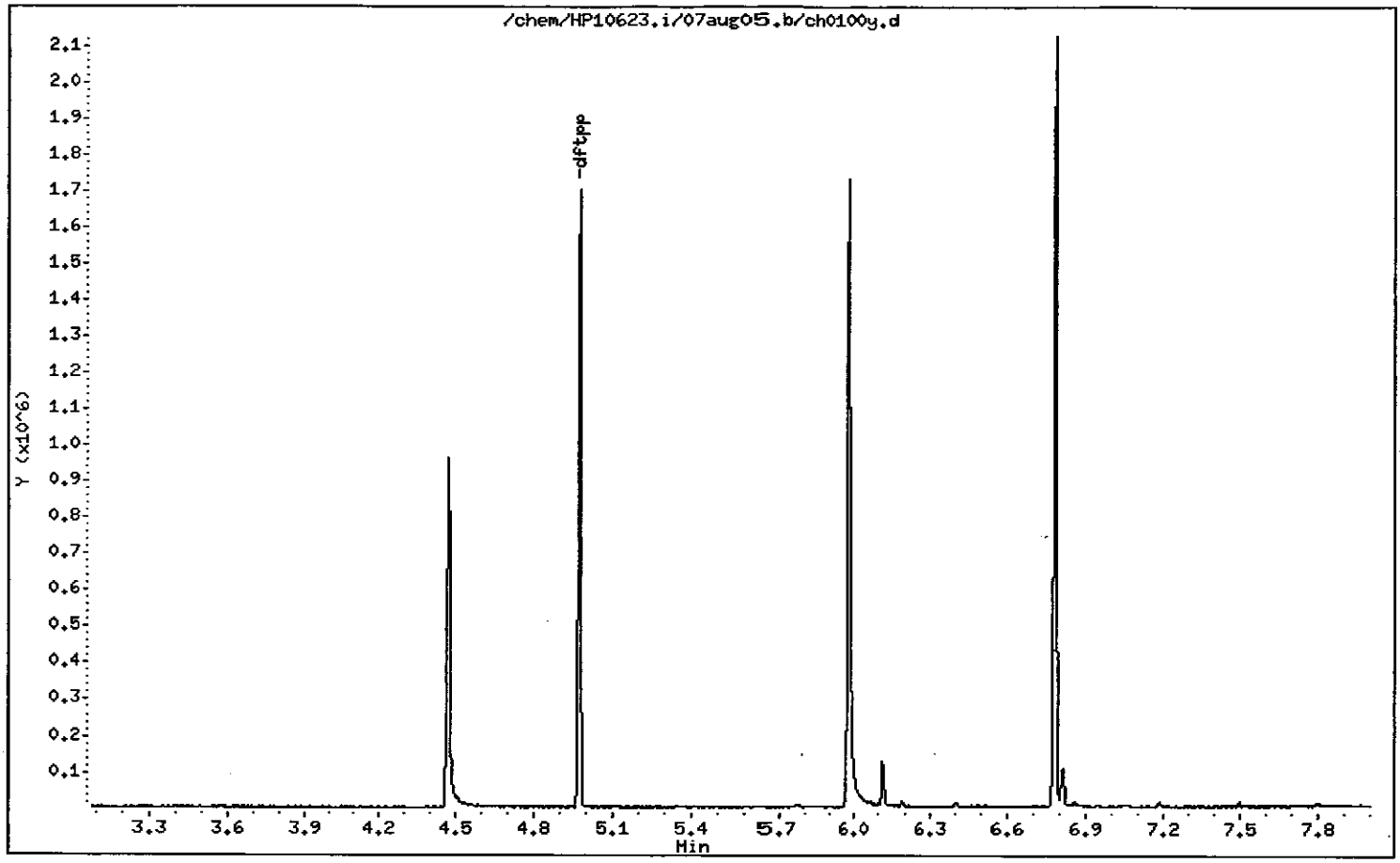
Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: mac00013

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/07aug05.b/ch0100y.d

Date : 05-AUG-2007 06:15

Client ID: 50NG/UL

Instrument: HP10623.i

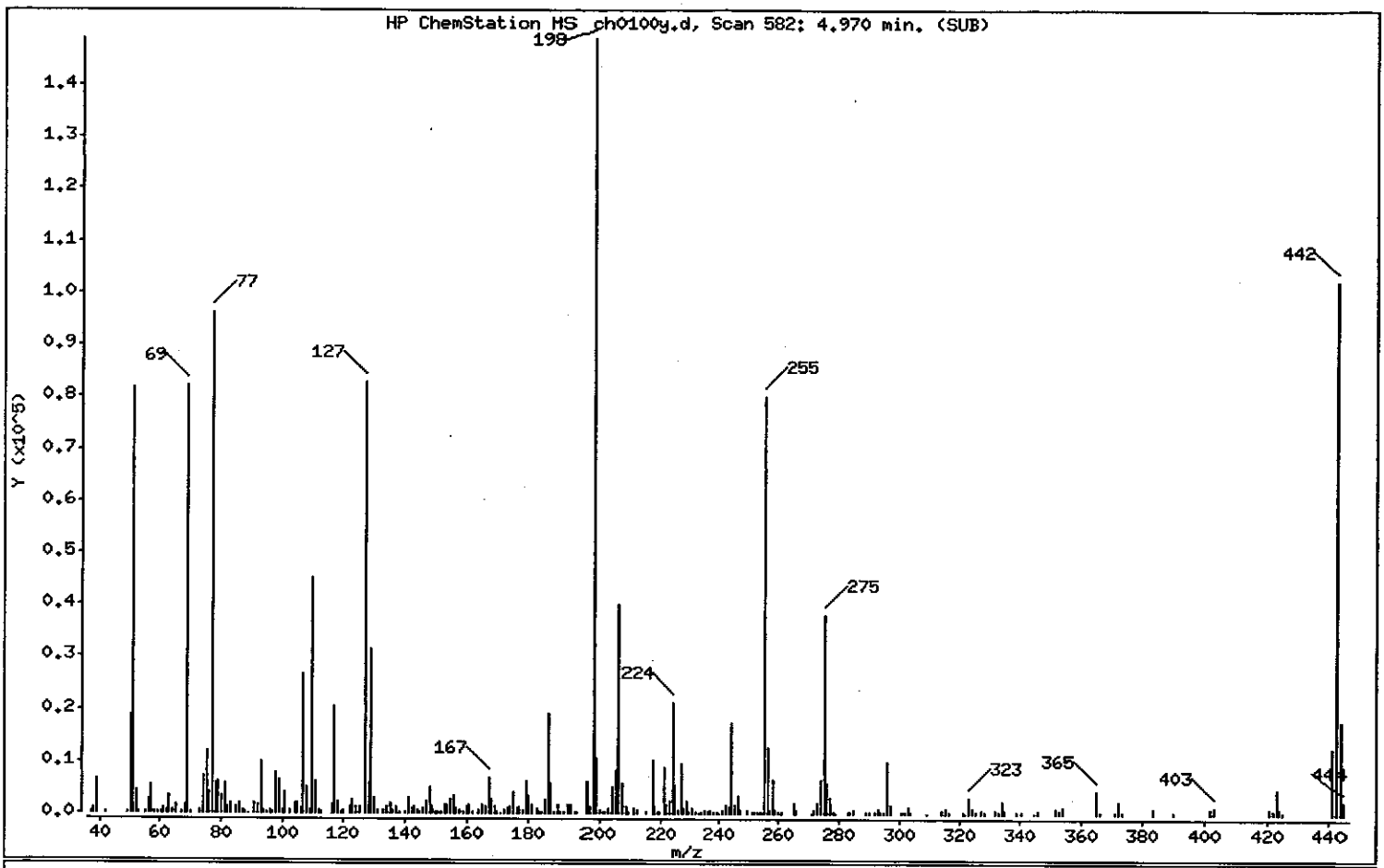
Sample Info: 50NG/UL;8270DFTPP1427;

Operator: mac00013

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.93
68	Less than 2.00% of mass 69	1.07 (1.93)
69	Mass 69 relative abundance	55.19
70	Less than 2.00% of mass 69	0.20 (0.36)
127	40.00 - 60.00% of mass 198	55.64
197	Less than 1.00% of mass 198	0.88
199	5.00 - 9.00% of mass 198	7.22
275	10.00 - 30.00% of mass 198	25.62
365	Greater than 1.00% of mass 198	3.10
441	Present, but less than mass 443	8.59
442	40.00 - 99.99% of mass 198	68.75
443	17.00 - 23.00% of mass 442	11.85 (17.24)

0677

Data File: /chem/HP10623.i/07aug05.b/ch0100y.d

Date : 05-AUG-2007 06:15

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: mac00013

Column phase: DB-5

Column diameter: 0.25

Data File: ch0100y.d

Spectrum: HP ChemStation MS ch0100y.d, Scan 582: 4.970 min. (SUB)

Location of Maximum: 198.00

Number of points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	396	122.00	1447	192.00	1784	272.00	531
37.90	1050	123.00	2687	193.10	1774	273.10	1970
39.10	6339	123.90	1306	194.00	437	274.00	6519
41.90	185	124.90	1325	196.10	6285	275.10	38160
48.90	421	127.10	82864	196.80	1309	276.10	5968
50.10	18968	128.00	5792	198.00	148928	277.00	3124
51.10	81800	129.00	31656	199.00	10759	278.00	485
52.10	4442	130.00	2983	199.80	828	278.90	169
52.90	307	131.00	574	201.20	418	282.90	425
55.00	314	132.60	551	201.70	252	283.90	314
56.00	2638	133.10	203	203.00	890	284.90	720
57.10	5639	134.00	1418	204.00	5069	288.70	278
58.00	399	135.00	2057	205.10	8302	290.10	174
59.10	241	136.10	748	206.10	39920	291.90	329
60.20	273	137.00	1461	207.10	5895	293.10	941
61.00	1178	138.00	337	208.00	1477	293.80	382
62.00	603	139.70	286	208.90	238	295.00	486
63.00	3348	141.00	3227	210.40	1096	296.00	9767
64.00	681	142.10	1058	210.90	710	297.00	1738
65.00	1766	143.00	1289	211.70	613	300.70	183
67.00	177	144.10	656	215.00	497	302.00	357
68.00	1589	144.90	339	217.00	10425	303.00	1204
69.00	82192	146.00	919	218.00	1304	303.90	391
70.00	293	147.00	2261	219.00	195	308.90	161
73.00	849	148.00	4969	219.70	215	313.90	711
74.10	7204	149.10	1216	221.10	8870	315.00	1065
75.10	11839	149.80	174	221.90	1585	316.00	368
76.10	3985	150.90	431	223.00	2375	320.90	337
77.10	96176	151.70	441	224.10	21080	321.90	170
78.10	5834	153.00	1768	225.10	5585	323.10	3076
79.10	6260	153.90	1746	225.90	534	324.00	953
80.00	3308	155.00	2632	227.00	9553	325.00	188
81.10	5782	156.00	3580	228.00	1047	327.00	725
82.00	1421	156.90	964	229.00	2241	328.10	408
83.00	1984	157.80	674	229.90	282	331.90	583

Data File: /chem/HP10623.i/07aug05.b/ch0100y.d

Date : 05-AUG-2007 06:15

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: mac00013

Column phase: DB-5

Column diameter: 0.25

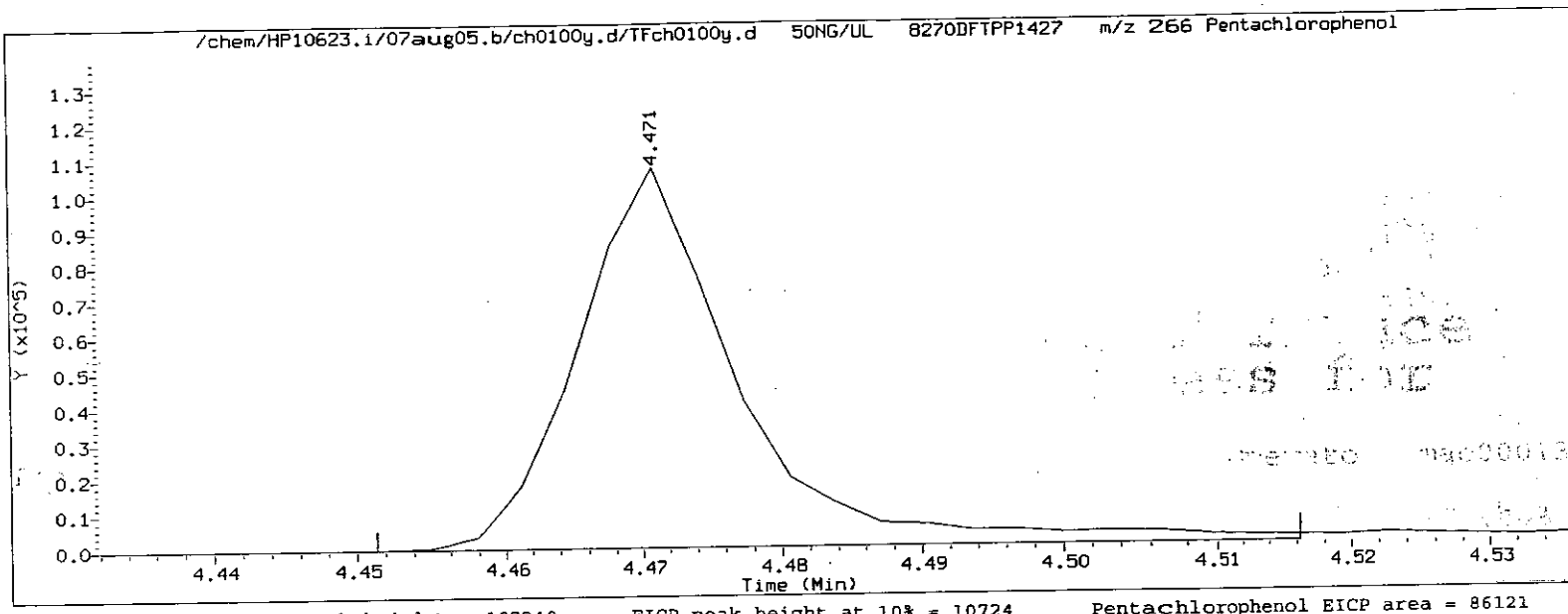
Data File: ch0100y.d
Spectrum: HP ChemStation MS ch0100y.d, Scan 582: 4.970 min. (SUB)
Location of Maximum: 198.00
Number of points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	1439	159.00	508	231.00	877	333.00	459
86.00	2172	160.00	1199	232.00	378	334.10	2341
87.00	822	161.00	1762	232.90	170	334.80	706
87.90	482	162.10	488	234.00	451	339.00	203
88.90	161	164.00	631	235.00	673	340.70	285
91.00	1934	165.00	1771	235.90	476	344.90	159
92.00	1544	166.00	1438	236.90	584	346.00	820
93.00	9889	167.10	6790	237.90	185	352.00	894
93.90	784	168.00	2775	239.00	240	352.90	642
94.80	172	168.90	1357	240.00	151	354.00	1208
96.00	604	169.80	315	241.00	568	365.00	4617
96.90	290	170.70	89	242.10	1801	366.00	482
98.00	7936	171.90	528	243.10	1336	371.10	466
99.00	6393	173.00	1159	244.10	17392	372.10	2263
100.20	637	174.00	1266	245.10	1867	373.00	464
101.00	3945	175.10	4038	246.00	3432	383.10	1190
102.80	751	176.00	923	246.90	615	389.90	239
104.10	2115	176.90	1355	249.10	698	402.00	1125
105.00	2165	178.10	526	251.10	285	403.00	1250
106.10	942	179.00	6030	251.70	175	421.00	1172
107.00	26584	180.00	3493	253.00	435	421.90	805
108.00	5085	181.00	1853	253.70	309	423.00	4809
109.20	852	182.60	976	255.10	80256	423.90	1102
110.00	45320	183.40	379	256.10	12633	425.00	306
111.00	6118	184.00	391	257.00	713	441.10	12787
111.90	850	185.00	2740	258.00	6457	442.10	102392
112.90	206	186.10	19016	258.90	638	443.10	17648
116.10	1812	187.00	5676	259.90	492	444.10	2268
117.00	20488	188.00	234	260.90	175		
118.00	2483	189.00	1686	265.00	2118		
119.00	340	190.00	279	266.00	618		
119.90	555	191.00	382	271.00	153		

8679

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 05-AUG-2007 06:15 Operator: mac00013

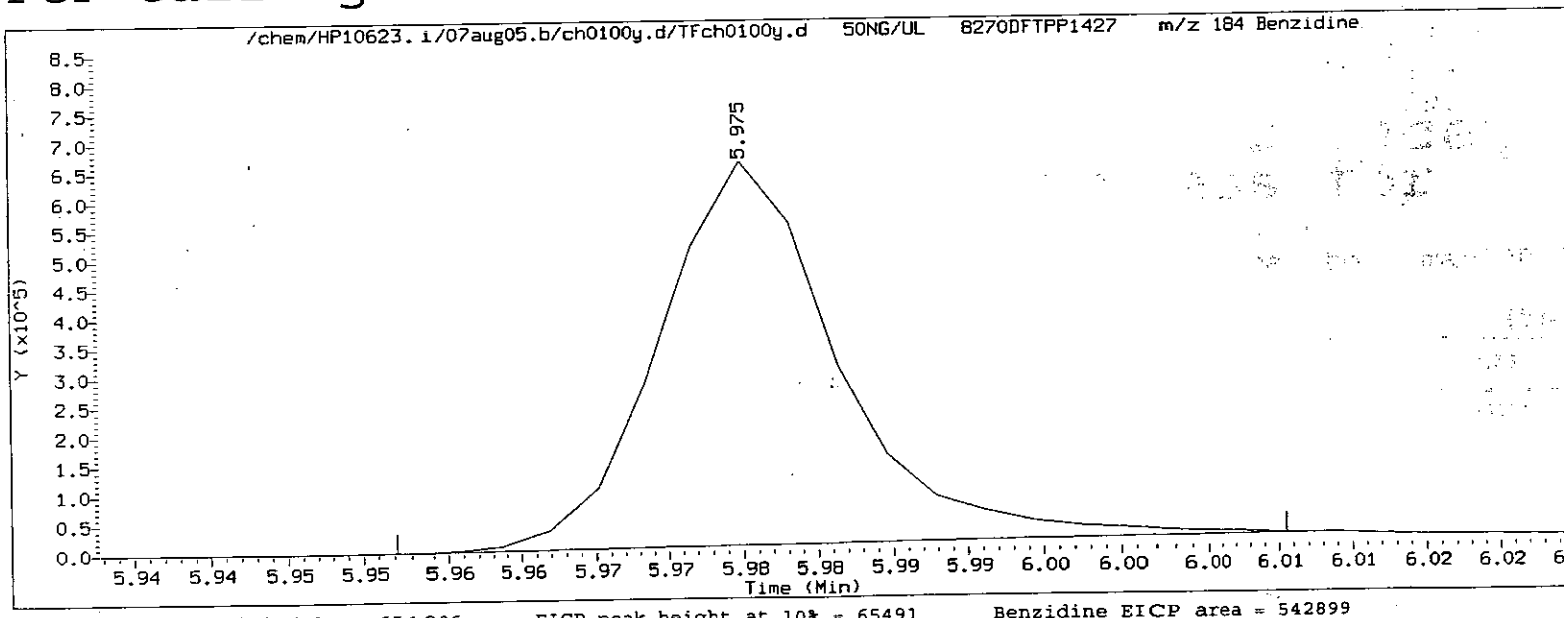


Pentachlorophenol EICP peak height = 107240 EICP peak height at 10% = 10724 Pentachlorophenol EICP area = 86121

Pentachlorophenol EICP peak apex (min.) = 4.471
RT at 10% of front half of EICP (min.) = 4.460
RT at 10% of back half of EICP (min.) = 4.484

'Front' peak width (min.) = 0.0111666667
'Tailing' peak width (min.) = 0.0135000000

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0135000000}{0.0111666667} = 1.209$



Benzidine EICP peak height = 654906 EICP peak height at 10% = 65491 Benzidine EICP area = 542899

Benzidine EICP peak apex (min.) = 5.975
RT at 10% of front half of EICP (min.) = 5.964
RT at 10% of back half of EICP (min.) = 5.990

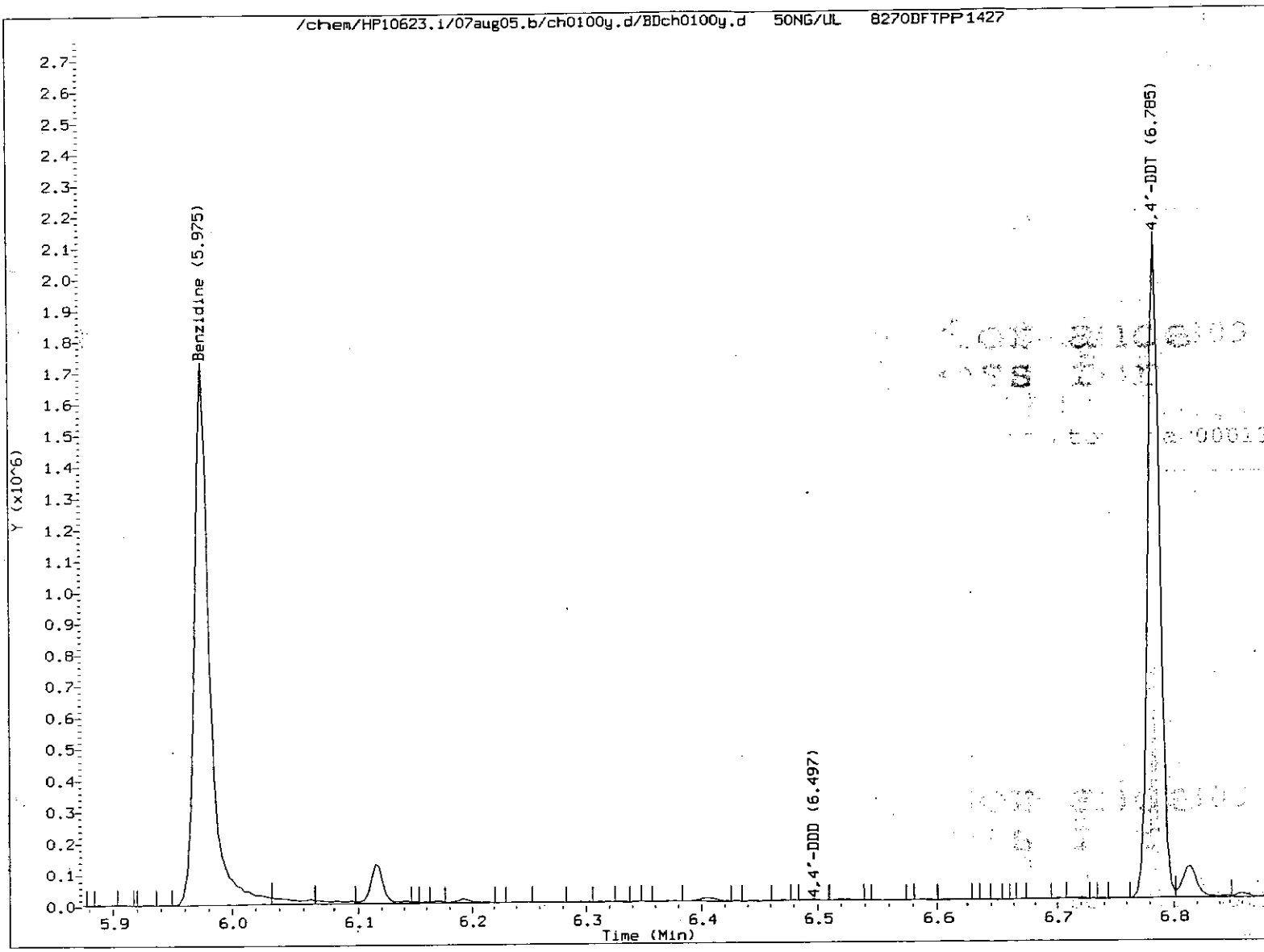
'Front' peak width (min.) = 0.0113333333
'Tailing' peak width (min.) = 0.0148333333

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0148333333}{0.0113333333} = 1.309$

printed on 08/05/2007 at 06:24

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 05-AUG-2007 06:15 Operator: mac00013



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 2448}{0 + 2448 + 1497236} \times 100 = 0.2$$

0681

printed on 08/05/2007 at 06:25

Data File: /chem/HP10623.i/07aug09a.b/ch0290x.d

Date : 09-AUG-2007 17:08

Client ID: 50NG/UL

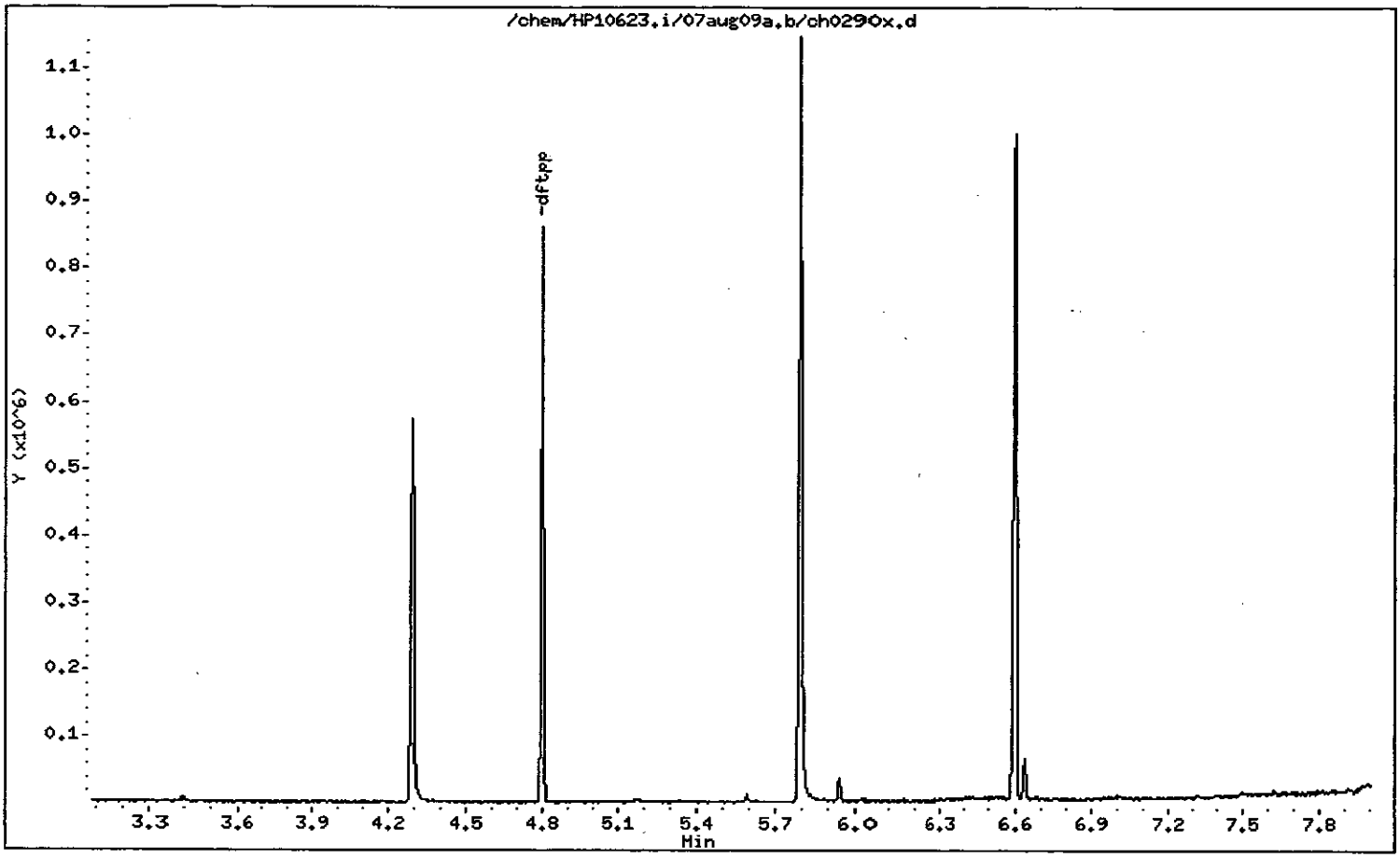
Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/07aug09a.b/ch0290x.d

Date : 09-AUG-2007 17:08

Client ID: 50NG/UL

Instrument: HP10623.i

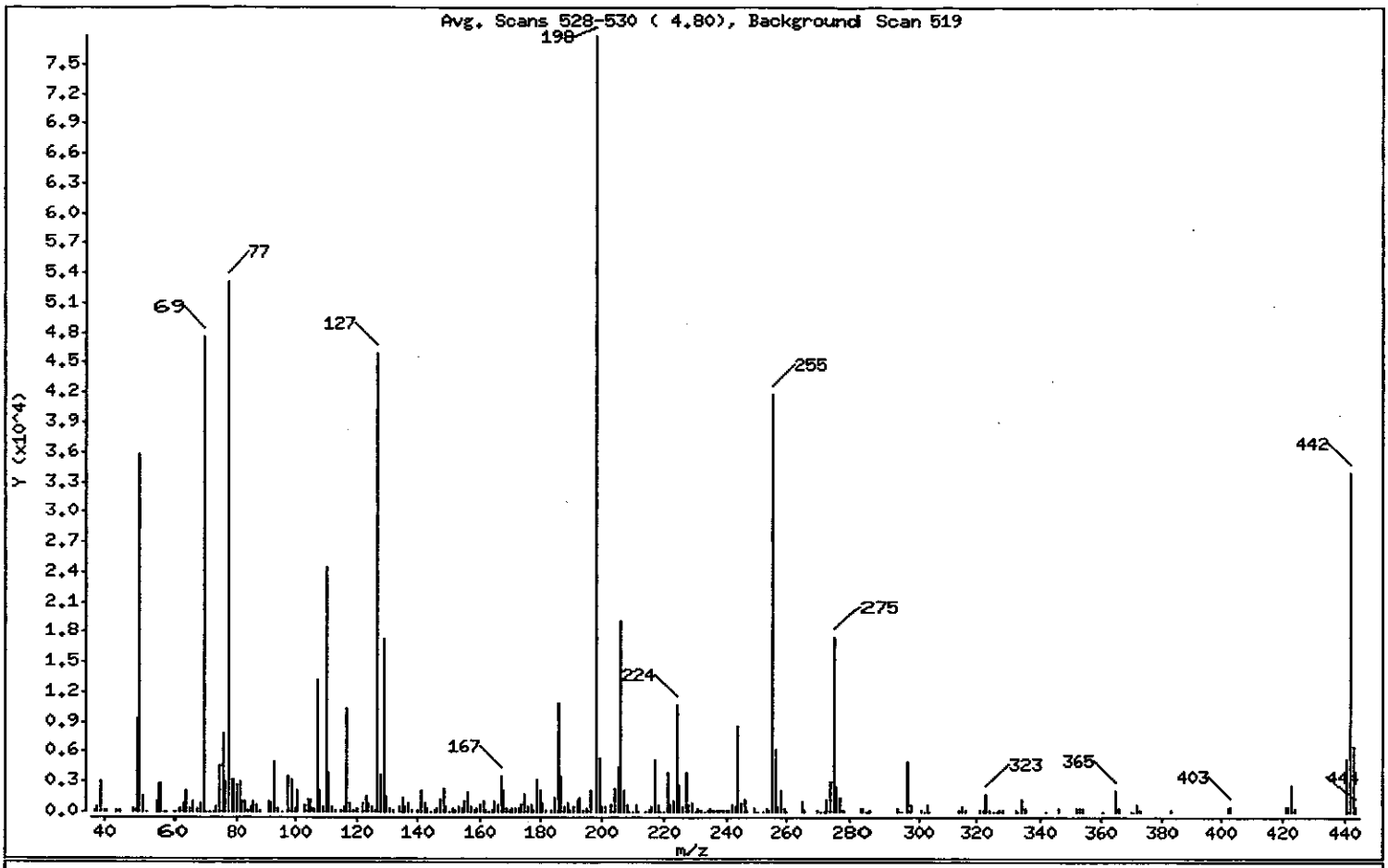
Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.87
68	Less than 2.00% of mass 69	1.08 (1.77)
69	Mass 69 relative abundance	61.05
70	Less than 2.00% of mass 69	0.06 (0.11)
127	40.00 - 60.00% of mass 198	59.00
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	22.59
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	6.79
442	40.00 - 99.99% of mass 198	43.57
443	17.00 - 23.00% of mass 442	8.41 (19.31)

0683

Data File: /chem/HP10623.i/07aug09a.b/ch0290x.d

Date : 09-AUG-2007 17:08

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

Data File: ch0290x.d
Spectrum: Avg. Scans 528-530 (4.80), Background Scan 519
Location of Maximum: 198.00
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	120	118.00	834	188.00	455	259.00	394
38.00	468	119.00	170	189.00	949	260.00	51
39.00	3027	120.00	295	190.00	105	265.00	1012
40.00	150	122.00	828	191.00	449	266.00	250
41.00	129	123.00	1613	192.00	1002	270.00	131
44.00	101	124.00	825	193.00	1382	271.00	59
45.00	132	125.00	617	194.00	212	272.00	65
49.00	432	126.00	238	195.00	391	273.00	1219
50.00	9259	127.00	45912	196.00	2163	274.00	3064
51.00	35696	128.00	3684	198.00	77832	275.00	17584
52.00	1614	129.00	17304	199.00	5342	276.00	2547
53.00	68	130.00	1649	200.00	616	277.00	1398
56.00	1115	131.00	395	201.00	450	278.00	191
57.00	2896	132.00	173	203.00	705	283.00	285
58.00	68	134.00	607	204.00	2294	284.00	67
60.00	67	135.00	1420	205.00	4391	285.00	168
61.00	407	136.00	467	206.00	19072	293.00	306
62.00	819	137.00	823	207.00	2173	294.00	67
63.00	2100	138.00	126	208.00	715	296.00	4957
64.00	317	140.00	166	209.00	72	297.00	696
65.00	1031	141.00	2228	210.00	68	301.00	141
67.00	369	142.00	836	211.00	804	302.00	53
68.00	842	143.00	398	212.00	51	303.00	719
69.00	47512	144.00	63	214.00	61	304.00	52
70.00	50	145.00	181	215.00	239	314.00	246
71.00	89	146.00	412	216.00	594	315.00	571
72.00	61	147.00	1237	217.00	5227	316.00	263
73.00	486	148.00	2392	218.00	700	321.00	118
74.00	4698	149.00	491	219.00	65	322.00	116
75.00	7866	150.00	89	220.00	60	323.00	1758
76.00	3058	151.00	359	221.00	3863	324.00	195
77.00	53104	152.00	161	222.00	779	325.00	50
78.00	3155	153.00	470	223.00	1009	326.00	68
79.00	3138	154.00	444	224.00	10700	327.00	210
80.00	2608	155.00	1132	225.00	2680	328.00	220

Data File: /chem/HP10623.i/07aug09a.b/ch0290x.d

Date : 09-AUG-2007 17:08

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

Data File: ch0290x.d

Spectrum: Avg. Scans 528-530 (4.80), Background Scan 519

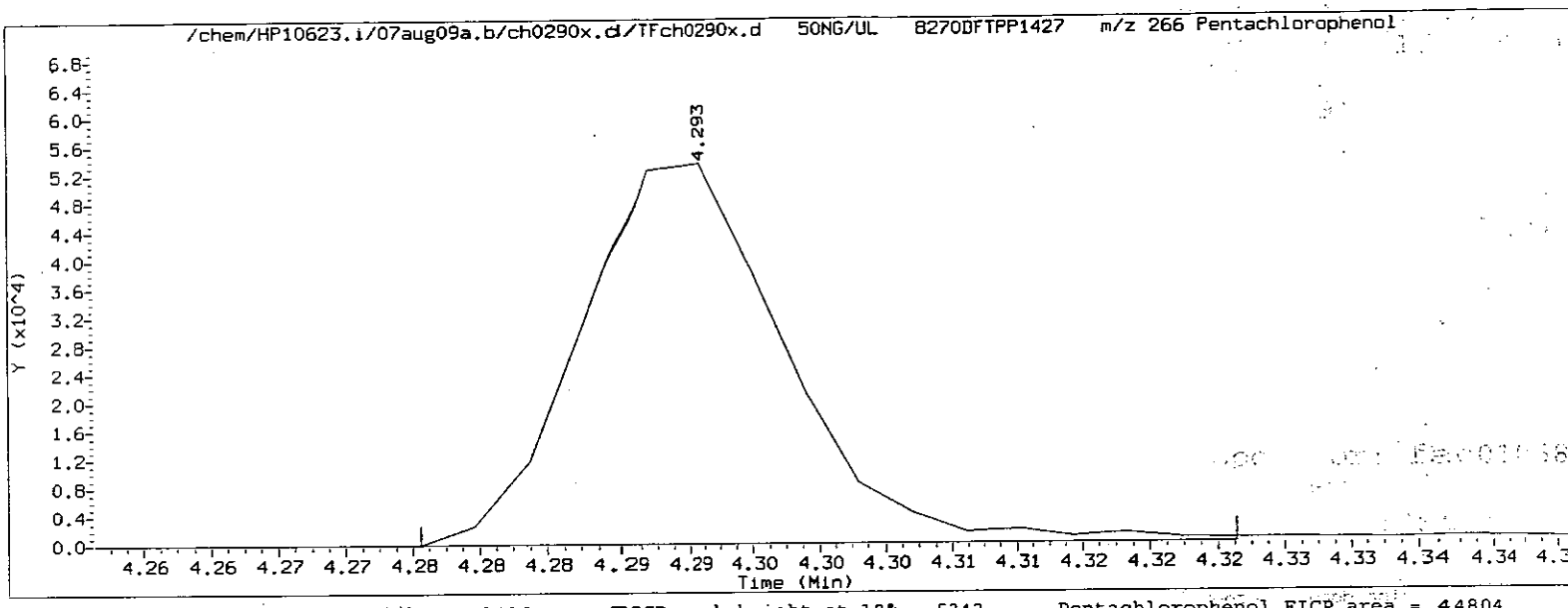
Location of Maximum: 198.00

Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3111	156.00	2029	226.00	497	332.00	196
82.00	1025	157.00	622	227.00	3965	333.00	65
83.00	1000	158.00	266	228.00	701	334.00	1321
84.00	91	159.00	296	229.00	862	335.00	377
85.00	510	160.00	689	230.00	54	342.00	87
86.00	1103	161.00	1157	231.00	373	346.00	307
87.00	645	162.00	110	232.00	107	352.00	299
88.00	153	163.00	68	233.00	81	353.00	310
91.00	1023	164.00	207	234.00	178	354.00	416
92.00	895	165.00	1085	235.00	280	361.00	50
93.00	5041	166.00	735	236.00	195	365.00	2234
94.00	318	167.00	3596	237.00	242	366.00	292
96.00	87	168.00	2232	238.00	110	370.00	80
98.00	3602	169.00	370	239.00	128	371.00	53
99.00	3148	170.00	168	240.00	196	372.00	760
100.00	389	171.00	283	241.00	261	373.00	154
101.00	2073	172.00	418	242.00	725	383.00	126
103.00	751	173.00	325	243.00	577	402.00	412
104.00	1257	174.00	803	244.00	8510	403.00	454
105.00	1224	175.00	1773	245.00	858	421.00	451
106.00	311	176.00	550	246.00	1326	422.00	448
107.00	13259	177.00	755	247.00	253	423.00	2624
108.00	2197	178.00	170	249.00	331	424.00	304
109.00	621	179.00	3276	250.00	60	441.00	5287
110.00	24600	180.00	2167	252.00	70	442.00	33912
111.00	3951	181.00	975	253.00	318	443.00	6547
112.00	484	182.00	199	254.00	227	444.00	600
113.00	104	184.00	208	255.00	41832		
115.00	180	185.00	1357	256.00	6219		
116.00	598	186.00	10873	257.00	575		
117.00	10371	187.00	3555	258.00	2184		

Assessment of GC Column Performance and Injection Port Inertness for

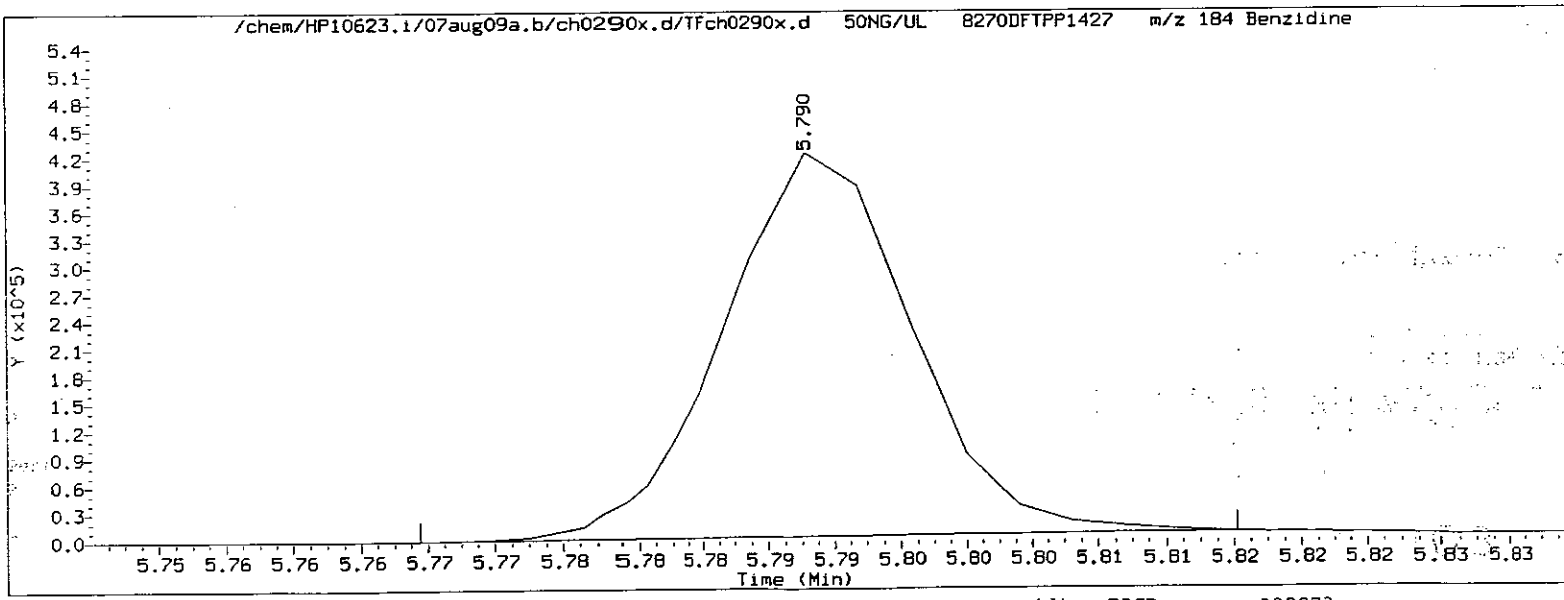
Instrument ID: HP10623.i Injection Date: 09-AUG-2007 17:08 Operator: fac01858



Pentachlorophenol EICP peak height = 53416 EICP peak height at 10% = 5342 Pentachlorophenol EICP area = 44804

Pentachlorophenol EICP peak apex (min.) = 4.293
RT at 10% of front half of EICP (min.) = 4.281 'Front' peak width (min.) = 0.0119000000
RT at 10% of back half of EICP (min.) = 4.305 'Tailing' peak width (min.) = 0.0120000000

$$\text{PCP tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0120000000}{0.0119000000} = 1.008$$



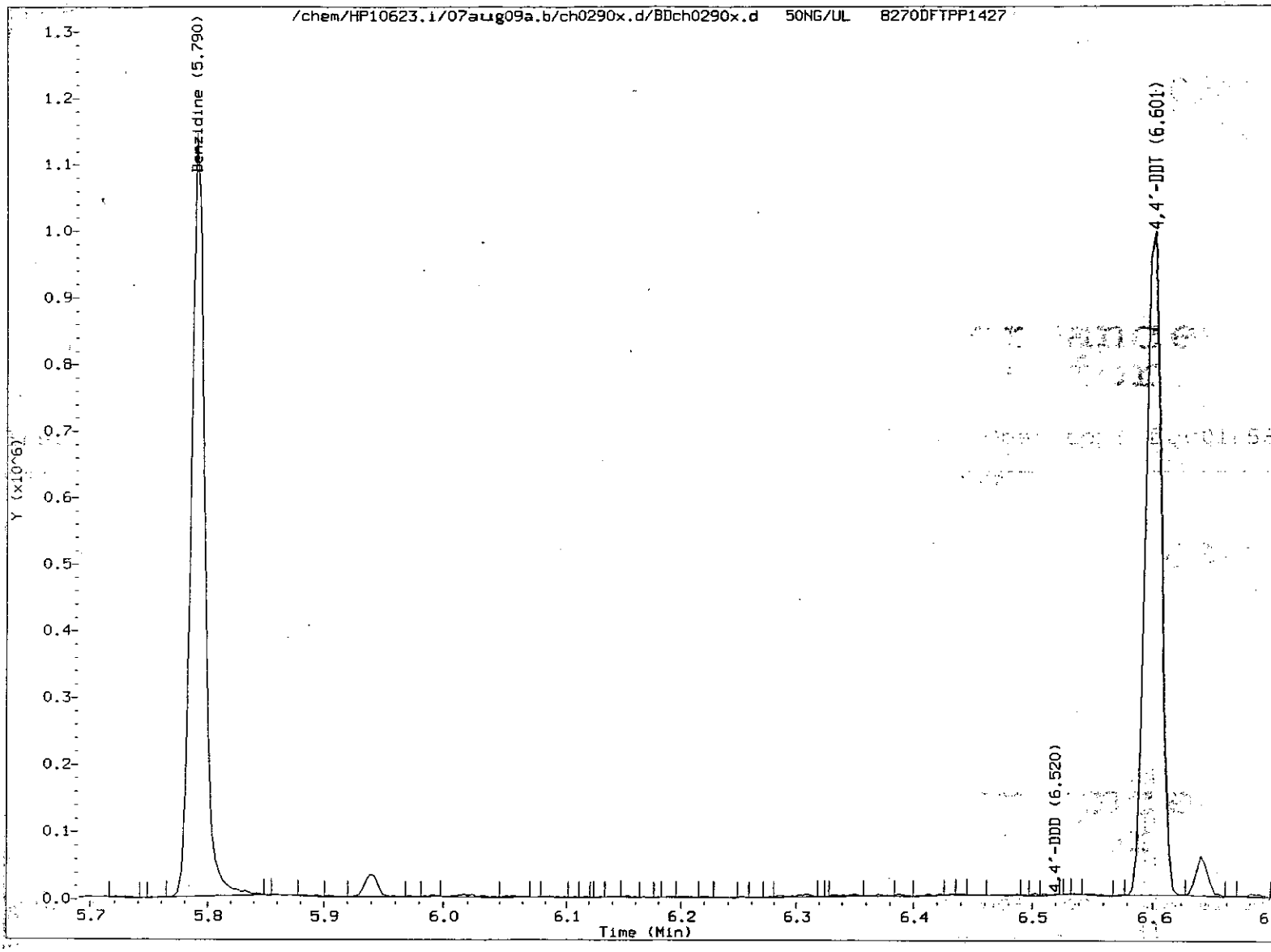
Benzidine EICP peak height = 420122 EICP peak height at 10% = 42012 Benzidine EICP area = 332973

Benzidine EICP peak apex (min.) = 5.790
RT at 10% of front half of EICP (min.) = 5.779 'Front' peak width (min.) = 0.0107666667
RT at 10% of back half of EICP (min.) = 5.803 'Tailing' peak width (min.) = 0.0124666667

$$\text{Benzidine tailing factor} = \frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0124666667}{0.0107666667} = 1.158$$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 09-AUG-2007 17:08 Operator: fac0185



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 1399}{0 + 1399 + 742340} \times 100 = 0.2$$

0687

Data File: /chem/HP10623.i/07aug12.b/ch0330z.d

Date : 12-AUG-2007 16:01

Client ID: 50NG/UL

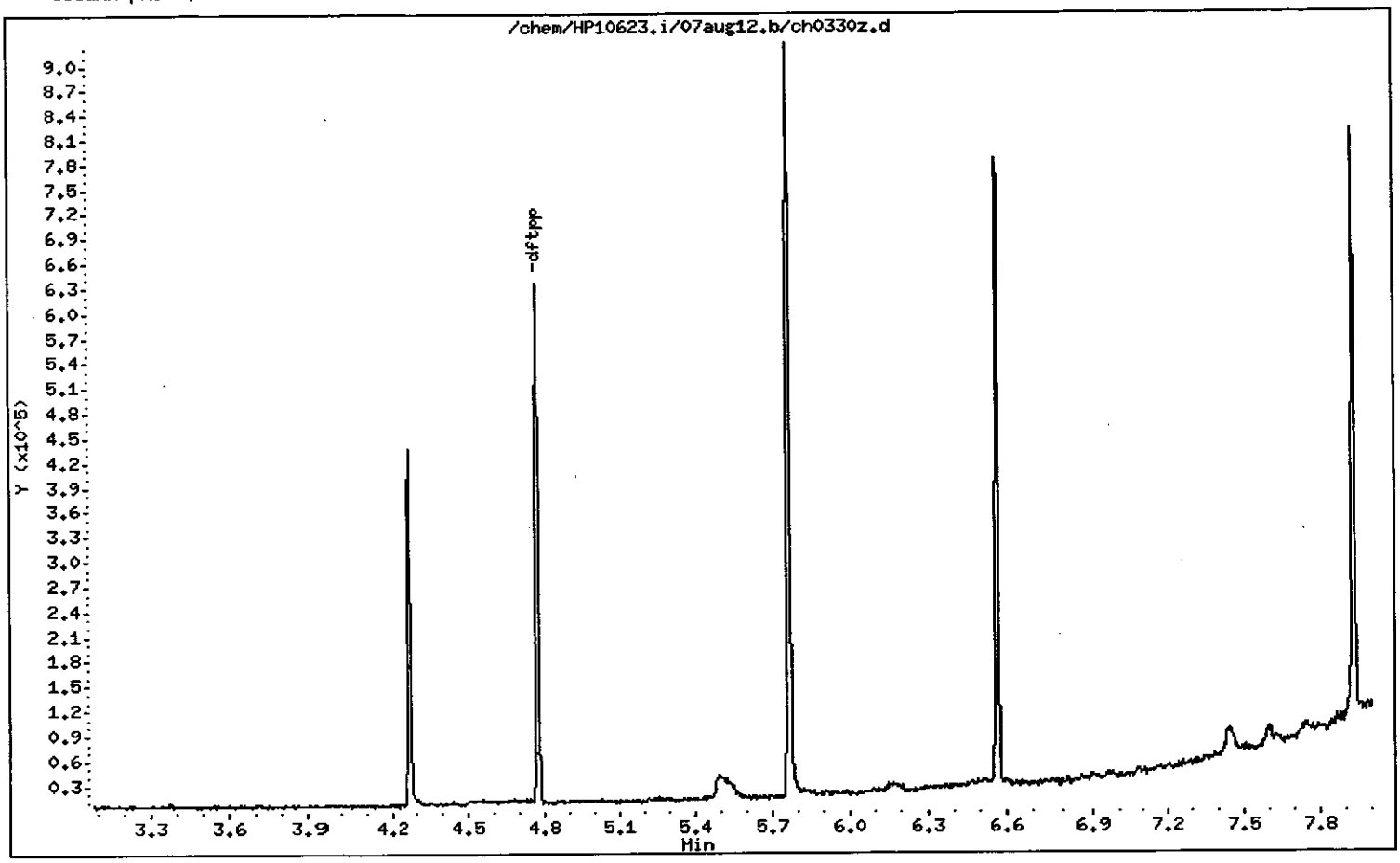
Instrument: HP10623.i

Sample Info: 50NG/UL;827ODFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/07aug12.b/ch0330z.d

Date : 12-AUG-2007 16:01

Client ID: 50NG/UL

Instrument: HP10623.i

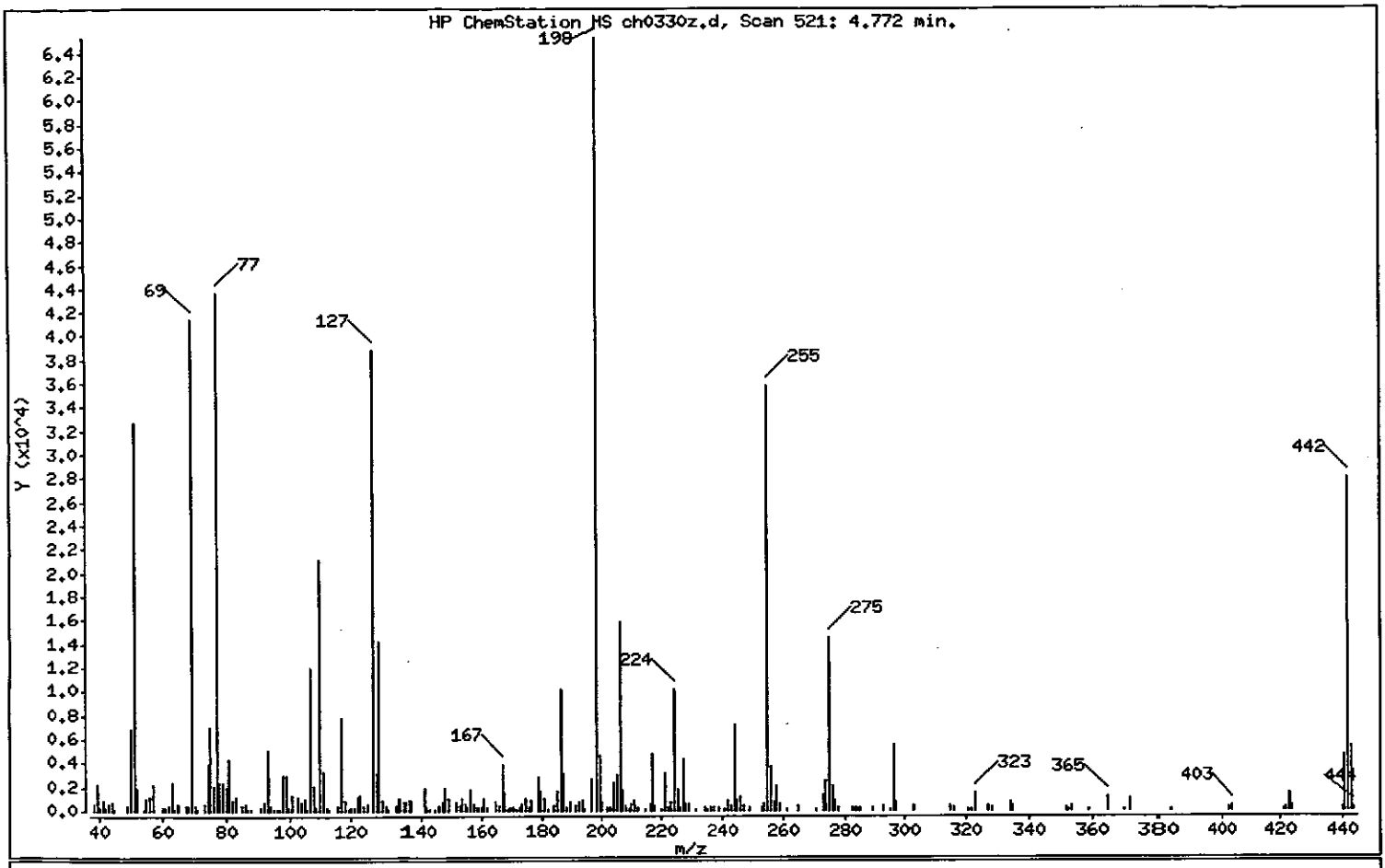
Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.08
68	Less than 2.00% of mass 69	0.72 (1.13)
69	Mass 69 relative abundance	63.50
70	Less than 2.00% of mass 69	0.78 (1.22)
127	40.00 - 60.00% of mass 198	59.53
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.19
275	10.00 - 30.00% of mass 198	22.34
365	Greater than 1.00% of mass 198	1.89
441	Present, but less than mass 443	7.15
442	40.00 - 99.99% of mass 198	42.87
443	17.00 - 23.00% of mass 442	8.19 (19.11)

Data File: /chem/HP10623.i/07aug12.b/ch0330z.d

Date : 12-AUG-2007 16:01

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

Data File: ch0330z.d

Spectrum: HP ChemStation MS ch0330z.d, Scan 521: 4.772 min.

Location of Maximum: 198.00

Number of points: 227

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.90	554	107.00	11987	174.90	1042	246.00	1156
39.00	2257	108.00	2165	175.90	334	247.10	451
39.70	373	108.70	341	176.70	893	248.80	262
40.90	841	110.00	21152	179.00	2810	252.80	244
41.80	290	110.90	3338	179.90	1617	253.60	534
42.90	593	112.00	242	180.90	982	255.00	35880
43.80	710	112.90	191	181.80	182	256.00	3825
44.80	190	115.70	490	183.80	384	257.00	686
48.80	444	117.00	7790	184.90	1664	258.00	2090
50.00	6944	117.90	871	186.00	10200	258.90	560
51.00	32696	119.00	177	187.00	3152	261.10	188
51.90	1882	120.00	342	187.90	289	264.90	414
53.80	198	120.90	289	188.90	802	271.00	206
54.90	1108	121.90	1189	190.90	494	273.00	1277
55.90	1141	122.90	1348	192.00	807	274.00	2509
57.00	2282	123.80	398	193.00	877	275.00	14583
60.00	241	124.90	666	193.90	213	276.00	2074
60.80	341	127.00	38864	196.00	2755	277.00	918
61.90	401	127.90	3094	198.00	65288	277.80	287
63.00	2414	128.90	14322	199.00	4697	282.90	295
63.70	198	130.00	935	199.90	702	283.90	352
64.90	587	131.00	386	201.50	338	285.00	289
66.90	488	131.70	176	202.70	321	288.90	283
67.90	468	133.90	519	204.00	2417	292.90	421
69.00	41456	134.80	1109	205.00	3024	294.80	215
70.00	506	135.80	794	206.00	15956	296.00	5610
70.90	199	136.90	899	207.00	1783	297.00	721
72.90	538	140.90	2009	207.90	421	302.90	430
74.00	3861	141.80	349	209.00	165	314.90	378
75.00	6998	142.90	202	209.80	670	315.80	253
76.00	2153	144.60	152	210.70	876	320.80	168
77.00	43656	145.80	520	211.90	354	322.00	219
78.00	2344	146.90	819	214.40	172	323.00	1455
79.00	2406	147.90	1977	216.10	542	326.80	384
79.90	1927	148.90	990	217.00	4766	328.00	318

8650

Data File: /chem/HP10623.i/07aug12.b/ch0330z.d

Date : 12-AUG-2007 16:01

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: fac01858

Column phase: DB-5

Column diameter: 0.25

Data File: ch0330z.d

Spectrum: HP ChemStation MS ch0330z.d, Scan 521: 4.772 min.

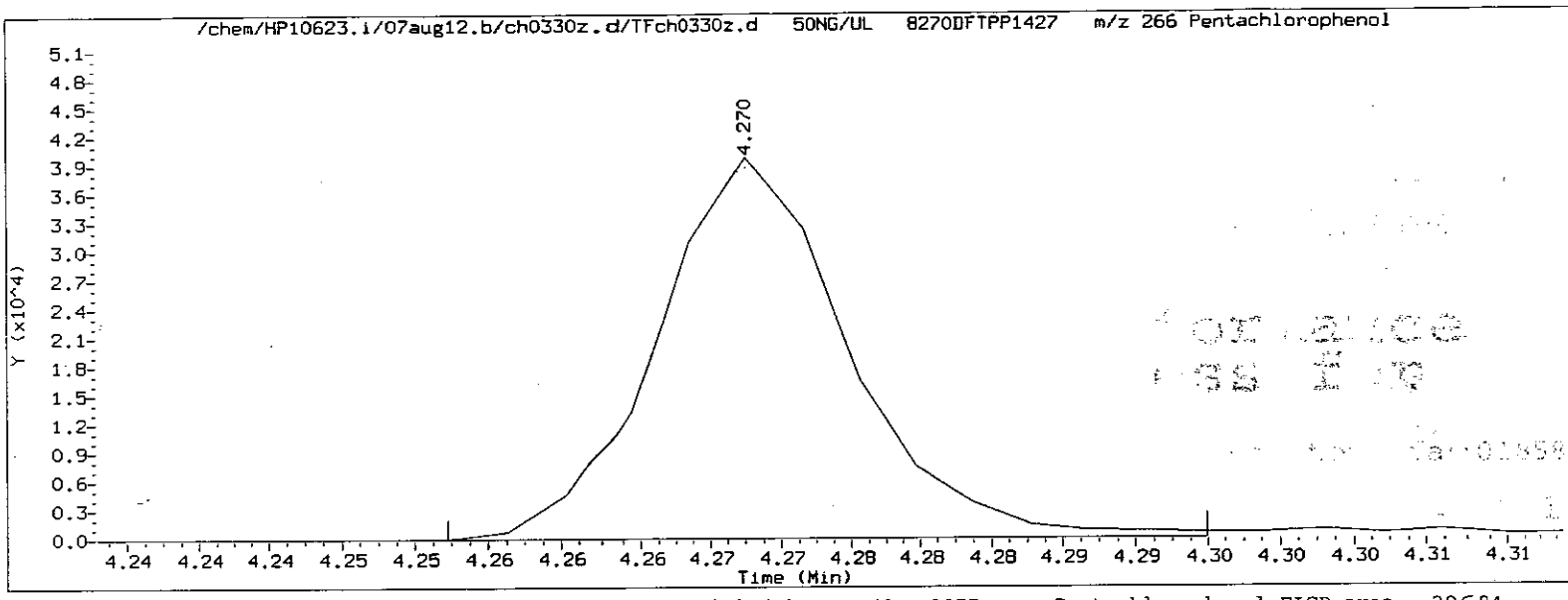
Location of Maximum: 198.00

Number of points: 227

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	4284	151.10	719	217.70	418	334.00	782
81.90	937	152.10	415	219.80	210	334.80	458
82.90	1231	153.00	1076	221.00	3092	352.00	244
84.90	413	154.00	663	222.10	295	352.70	167
85.90	648	154.90	366	223.00	704	353.90	437
86.70	191	155.90	1832	224.00	10278	358.80	190
87.80	185	157.00	574	225.00	1761	365.00	1233
90.80	371	158.00	277	225.70	256	370.20	179
92.00	774	159.10	281	227.00	4295	372.00	1034
92.90	5164	159.90	323	227.80	536	382.90	167
94.00	447	160.80	999	229.00	563	402.00	371
94.90	183	161.80	326	231.00	154	403.20	419
95.90	155	164.90	739	234.00	303	421.10	166
96.90	178	165.90	489	234.60	193	421.80	281
97.90	3049	167.00	3898	235.90	312	423.00	1538
99.00	3074	167.90	1435	237.00	356	423.80	407
99.90	315	169.00	210	238.90	248	440.20	229
100.80	1327	169.80	318	240.80	182	441.00	4669
102.90	1161	170.80	226	241.80	837	442.10	27992
103.80	734	171.80	188	243.00	448	443.00	5348
104.90	1001	172.90	309	244.10	7241	443.90	369
105.80	190	173.90	567	244.80	933		

Assessment of GC Column Performance and Injection Port Inertness for

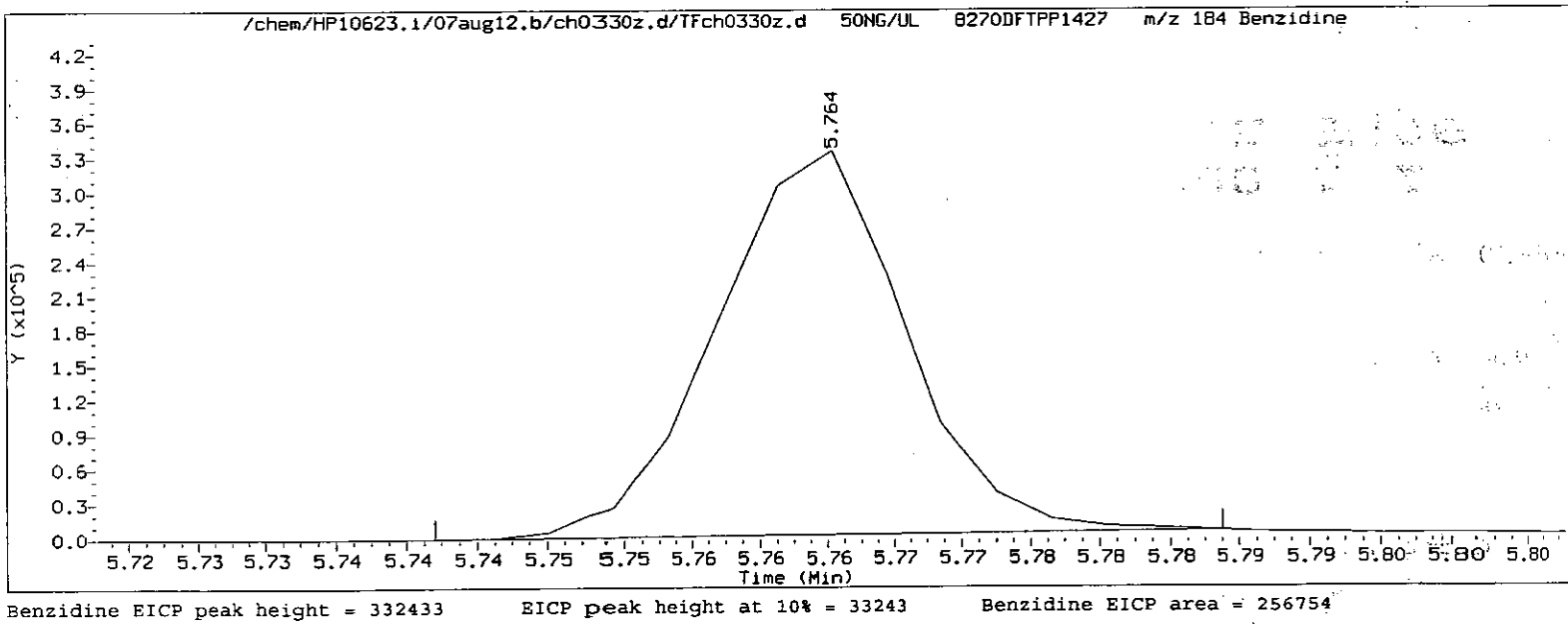
Instrument ID: HP10623.i Injection Date: 12-AUG-2007 16:01 Operator: fac01858



Pentachlorophenol EICP peak height = 39768 EICP peak height at 10% = 3977 Pentachlorophenol EICP area = 29684

Pentachlorophenol EICP peak apex (min.) = 4.270
RT at 10% of front half of EICP (min.) = 4.260 'Front' peak width (min.) = 0.0101000000
RT at 10% of back half of EICP (min.) = 4.283 'Tailing' peak width (min.) = 0.0125500000

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0125500000}{0.0101000000} = 1.243$



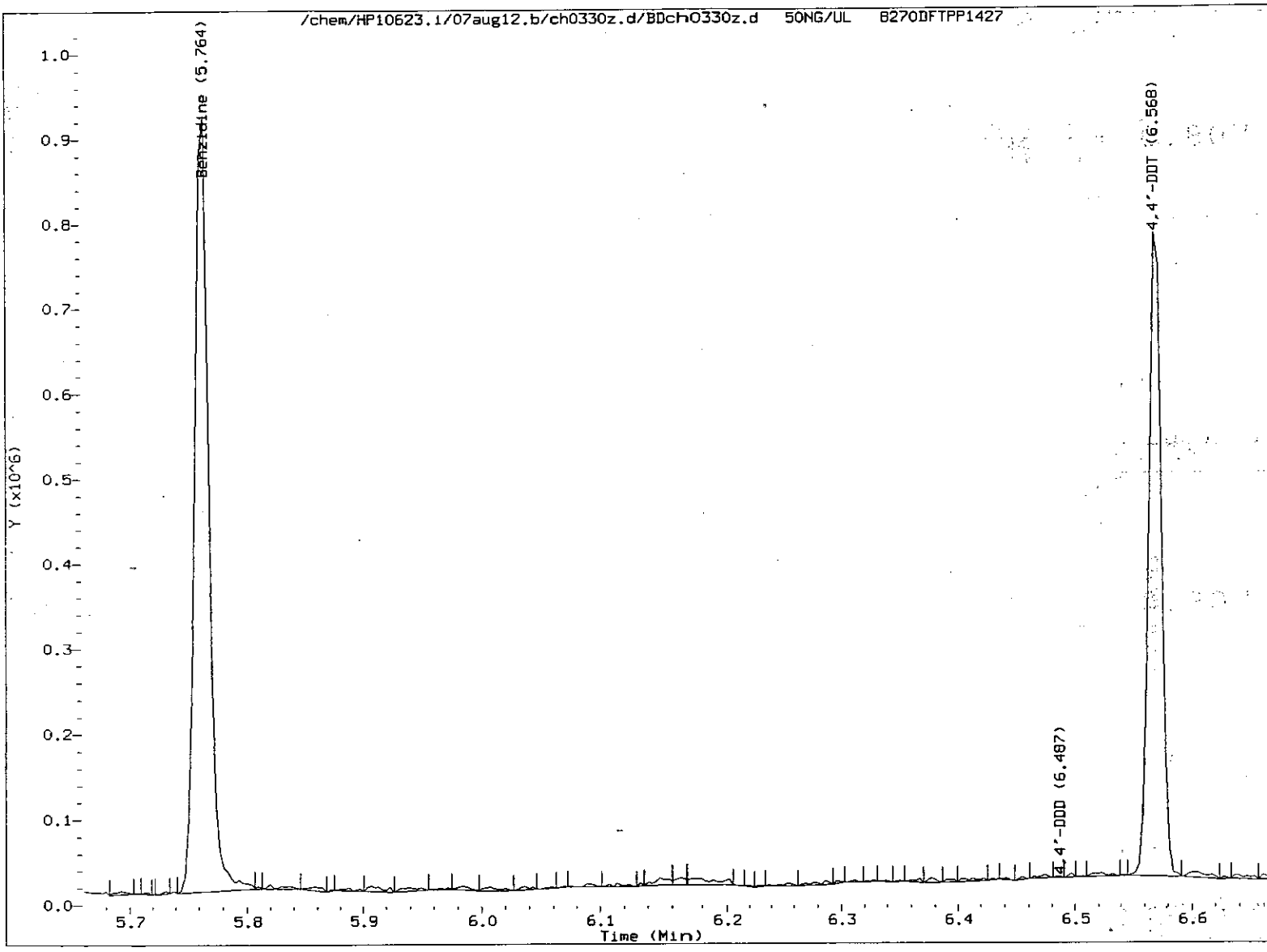
Benzidine EICP peak height = 332433 EICP peak height at 10% = 33243 Benzidine EICP area = 256754

Benzidine EICP peak apex (min.) = 5.764
RT at 10% of front half of EICP (min.) = 5.752 'Front' peak width (min.) = 0.0124666667
RT at 10% of back half of EICP (min.) = 5.774 'Tailing' peak width (min.) = 0.0100666667

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0100666667}{0.0124666667} = 0.807$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 12-AUG-2007 16:01 Operator: fac01858



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 623}{0 + 623 + 566558} \times 100 = 0.1$$

8693

Data File: /chem/HP10623.i/07aug13.b/ch0370y.d

Date : 14-AUG-2007 00:33

Client ID: 50NG/UL

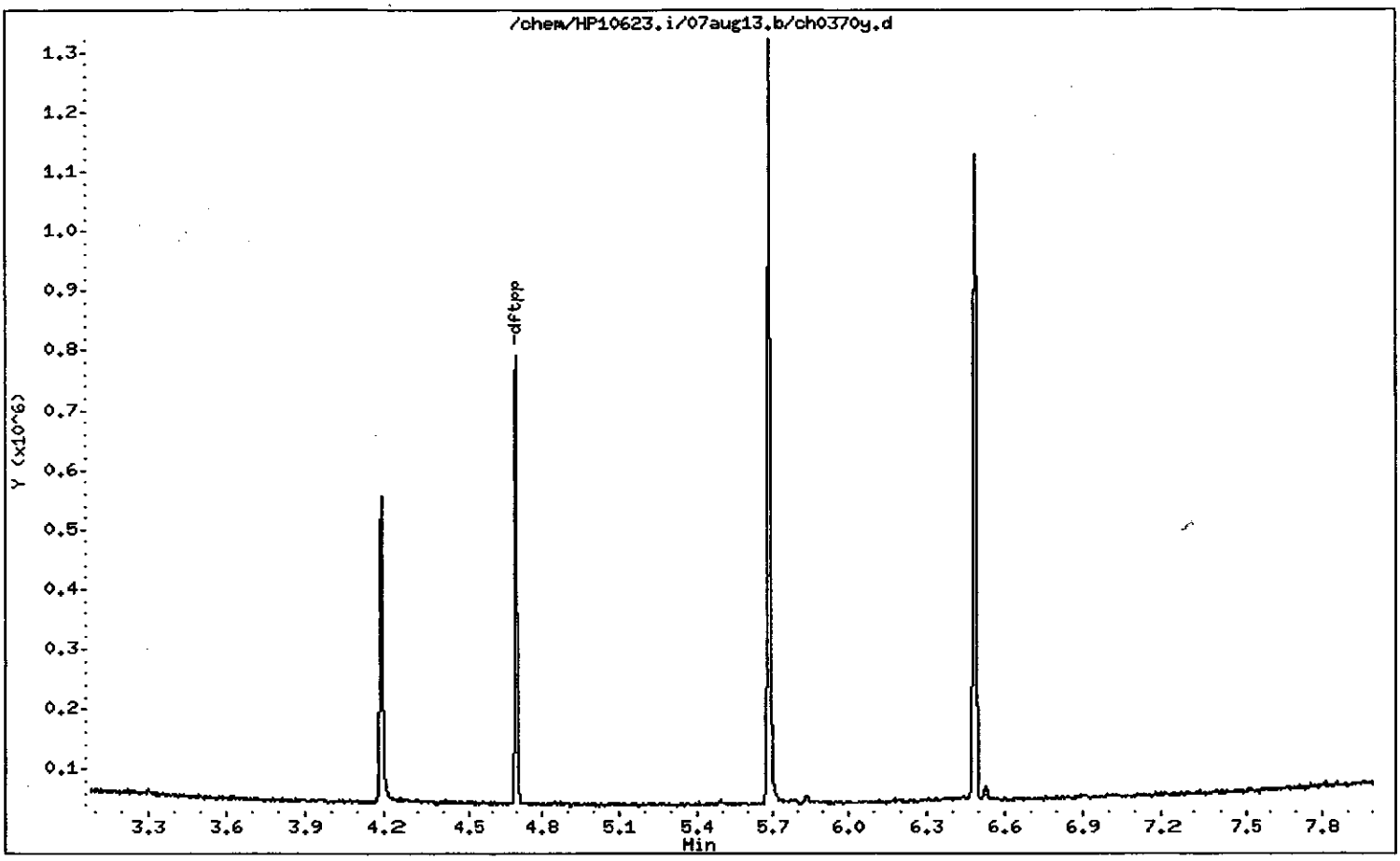
Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/07aug13.b/ch0370y.d

Date : 14-AUG-2007 00:33

Client ID: 50NG/UL

Instrument: HP10623.i

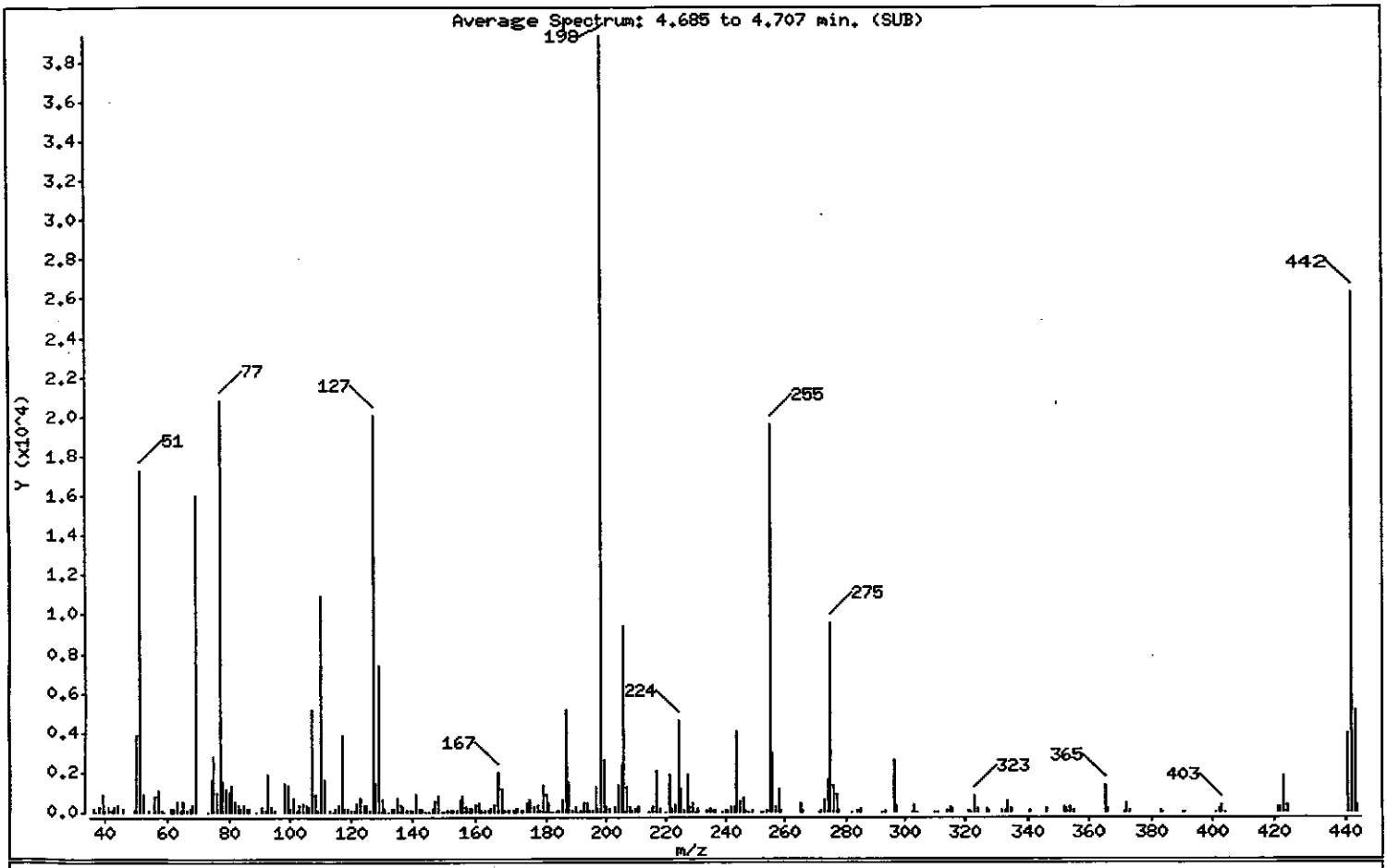
Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.96
68	Less than 2.00% of mass 69	0.81 (2.00)
69	Mass 69 relative abundance	40.72
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	51.09
197	Less than 1.00% of mass 198	0.45
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	24.34
365	Greater than 1.00% of mass 198	3.50
441	Present, but less than mass 443	10.19
442	40.00 - 99.99% of mass 198	66.89
443	17.00 - 23.00% of mass 442	13.14 (19.65)

8695

Data File: /chem/HP10623.i/07aug13.b/ch0370y.d

Date : 14-AUG-2007 00:33

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: ch0370y.d

Spectrum: Average Spectrum: 4.685 to 4.707 min. (SUB)

Location of Maximum: 198.00

Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	147	116.00	343	182.00	25	258.00	1179
37.00	19	117.00	3918	183.00	24	259.00	129
38.00	279	118.00	140	184.00	118	265.00	433
39.00	869	119.00	169	185.00	610	266.00	51
40.00	107	120.00	49	186.00	5159	271.00	21
41.00	229	121.00	60	187.00	1573	272.00	47
42.00	75	122.00	439	188.00	107	273.00	639
43.00	233	123.00	694	189.00	288	274.00	1607
44.00	387	124.00	345	190.00	29	275.00	9578
46.00	181	125.00	354	191.00	126	276.00	1354
49.00	58	126.00	94	192.00	423	277.00	880
50.00	3854	127.00	20096	193.00	443	278.00	70
51.00	17288	128.00	1435	194.00	109	282.00	23
52.00	886	129.00	7437	195.00	66	284.00	68
54.00	49	130.00	634	196.00	1244	285.00	146
56.00	794	131.00	198	197.00	176	292.00	27
57.00	1120	132.00	44	198.00	39336	293.00	101
58.00	96	133.00	169	199.00	2630	296.00	2633
59.00	20	134.00	212	200.00	234	297.00	376
61.00	200	135.00	756	201.00	143	302.00	19
62.00	215	136.00	338	203.00	230	303.00	336
63.00	514	137.00	257	204.00	1373	304.00	45
64.00	135	138.00	64	205.00	2316	310.00	19
65.00	521	139.00	100	206.00	9418	311.00	39
66.00	79	140.00	97	207.00	1228	314.00	70
67.00	155	141.00	875	208.00	298	315.00	291
68.00	320	142.00	216	209.00	133	316.00	175
69.00	16021	143.00	219	210.00	193	321.00	96
73.00	21	144.00	19	211.00	314	322.00	22
74.00	1646	145.00	35	215.00	43	323.00	846
75.00	2759	146.00	178	216.00	233	324.00	175
76.00	968	147.00	526	217.00	2059	327.00	168
77.00	20768	148.00	816	218.00	193	328.00	106
78.00	1565	149.00	28	220.00	26	332.00	49
79.00	1197	150.00	40	221.00	1863	333.00	62

8696

Data File: /chem/HP10623.i/07aug13.b/ch0370y.d

Date : 14-AUG-2007 00:33

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

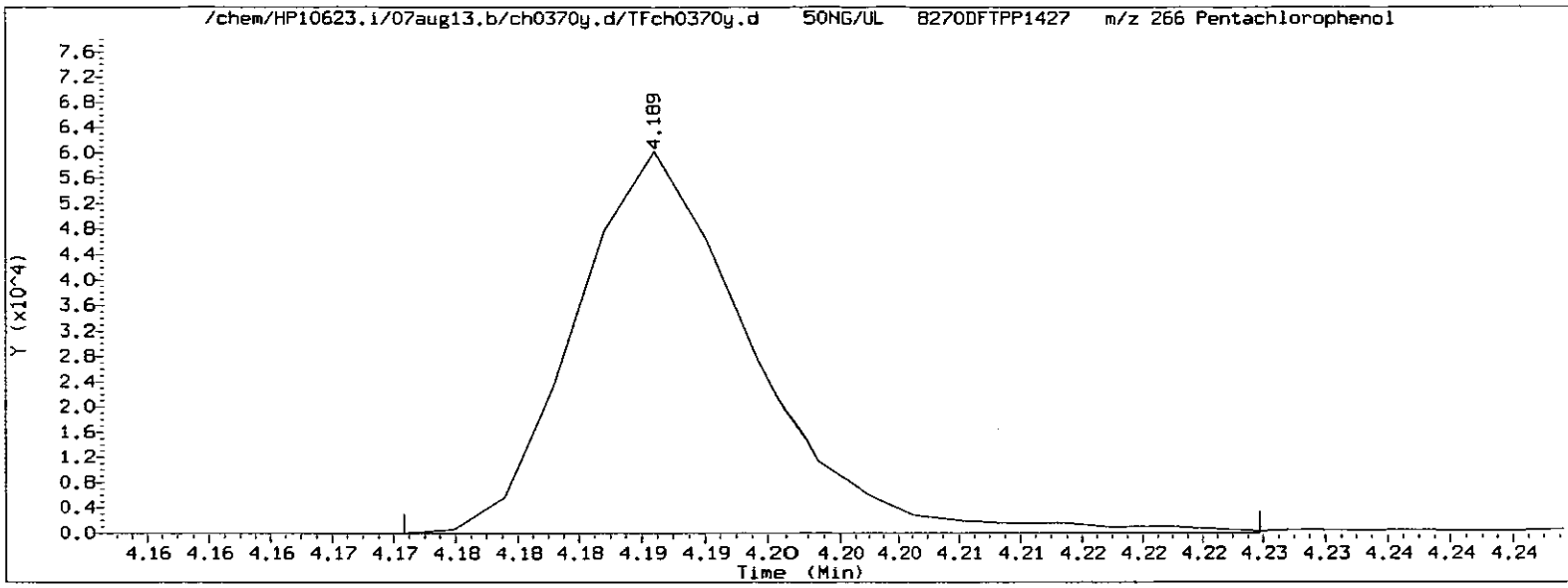
Column diameter: 0.25

Data File: ch0370y.d
Spectrum: Average Spectrum: 4.685 to 4.707 min. (SUB)
Location of Maximum: 198.00
Number of points: 262

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	996	151.00	98	222.00	169	334.00	571
81.00	1346	152.00	80	223.00	389	335.00	179
82.00	551	153.00	108	224.00	4611	341.00	56
83.00	350	154.00	53	225.00	1168	346.00	202
84.00	201	155.00	619	226.00	109	352.00	265
85.00	374	156.00	803	227.00	1883	353.00	176
86.00	225	157.00	233	228.00	254	354.00	238
87.00	218	158.00	193	229.00	466	355.00	67
89.00	27	159.00	159	230.00	40	365.00	1378
91.00	269	160.00	321	231.00	178	366.00	190
92.00	82	161.00	421	234.00	84	371.00	41
93.00	1941	162.00	120	235.00	148	372.00	449
94.00	232	163.00	76	236.00	91	373.00	100
95.00	110	164.00	61	237.00	124	383.00	122
98.00	1457	165.00	144	239.00	20	384.00	26
99.00	1368	166.00	373	240.00	52	390.00	21
100.00	199	167.00	1973	241.00	126	391.00	20
101.00	768	168.00	1178	242.00	254	401.00	40
102.00	55	169.00	113	243.00	315	402.00	219
103.00	329	170.00	75	244.00	4050	403.00	321
104.00	449	171.00	88	245.00	544	404.00	24
105.00	317	172.00	173	246.00	765	421.00	243
106.00	229	173.00	112	247.00	116	422.00	232
107.00	5134	174.00	426	248.00	20	423.00	1789
108.00	873	175.00	637	249.00	122	424.00	349
109.00	85	176.00	262	252.00	21	441.00	4008
110.00	10948	177.00	320	253.00	24	442.00	26312
111.00	1669	178.00	107	254.00	99	443.00	5170
113.00	93	179.00	1348	255.00	19608	444.00	401
114.00	27	180.00	894	256.00	3012		
115.00	146	181.00	420	257.00	242		

Assessment of GC Column Performance and Injection Port Inertness for

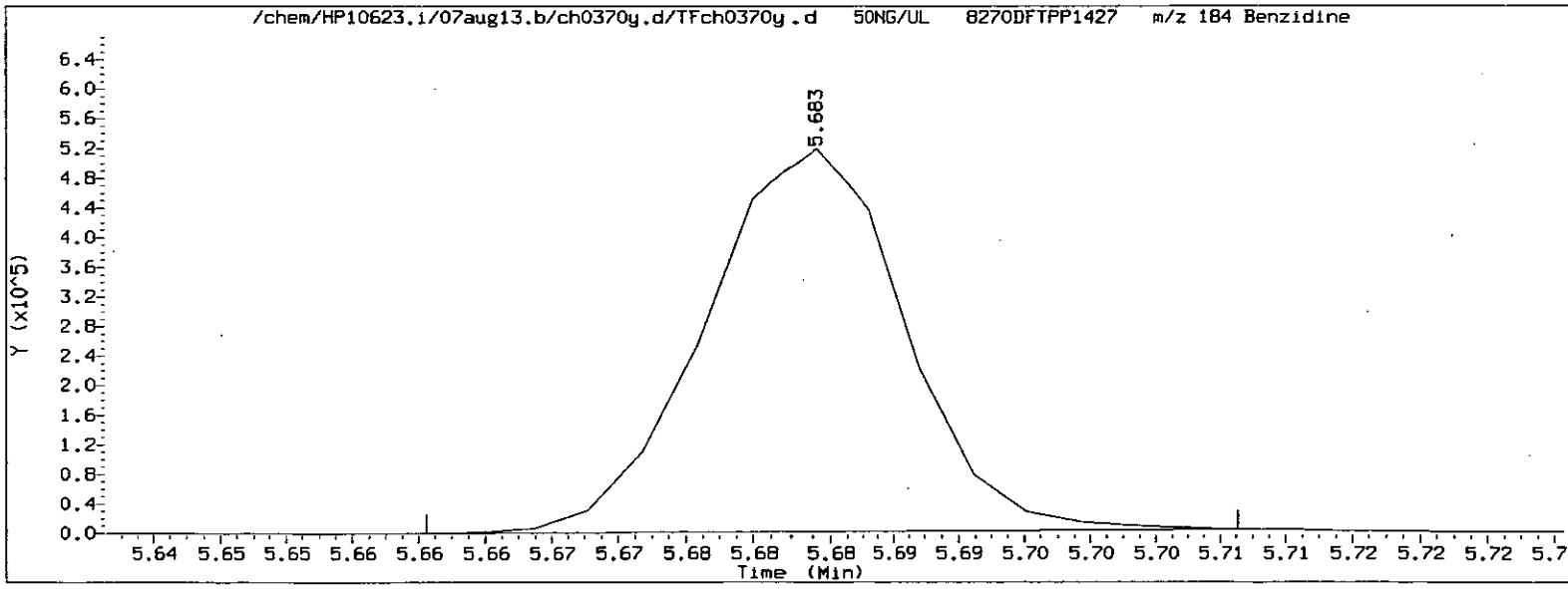
Instrument ID: HP10623.i Injection Date: 14-AUG-2007 00:33 Operator: lmh00956



Pentachlorophenol EICP peak height = 60304 EICP peak height at 10% = 6030 Pentachlorophenol EICP area = 46728

Pentachlorophenol EICP peak apex (min.) = 4.189
RT at 10% of front half of EICP (min.) = 4.179 'Front' peak width (min.) = 0.0096166667
RT at 10% of back half of EICP (min.) = 4.202 'Tailing' peak width (min.) = 0.0130333333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0130333333}{0.0096166667} = 1.355$



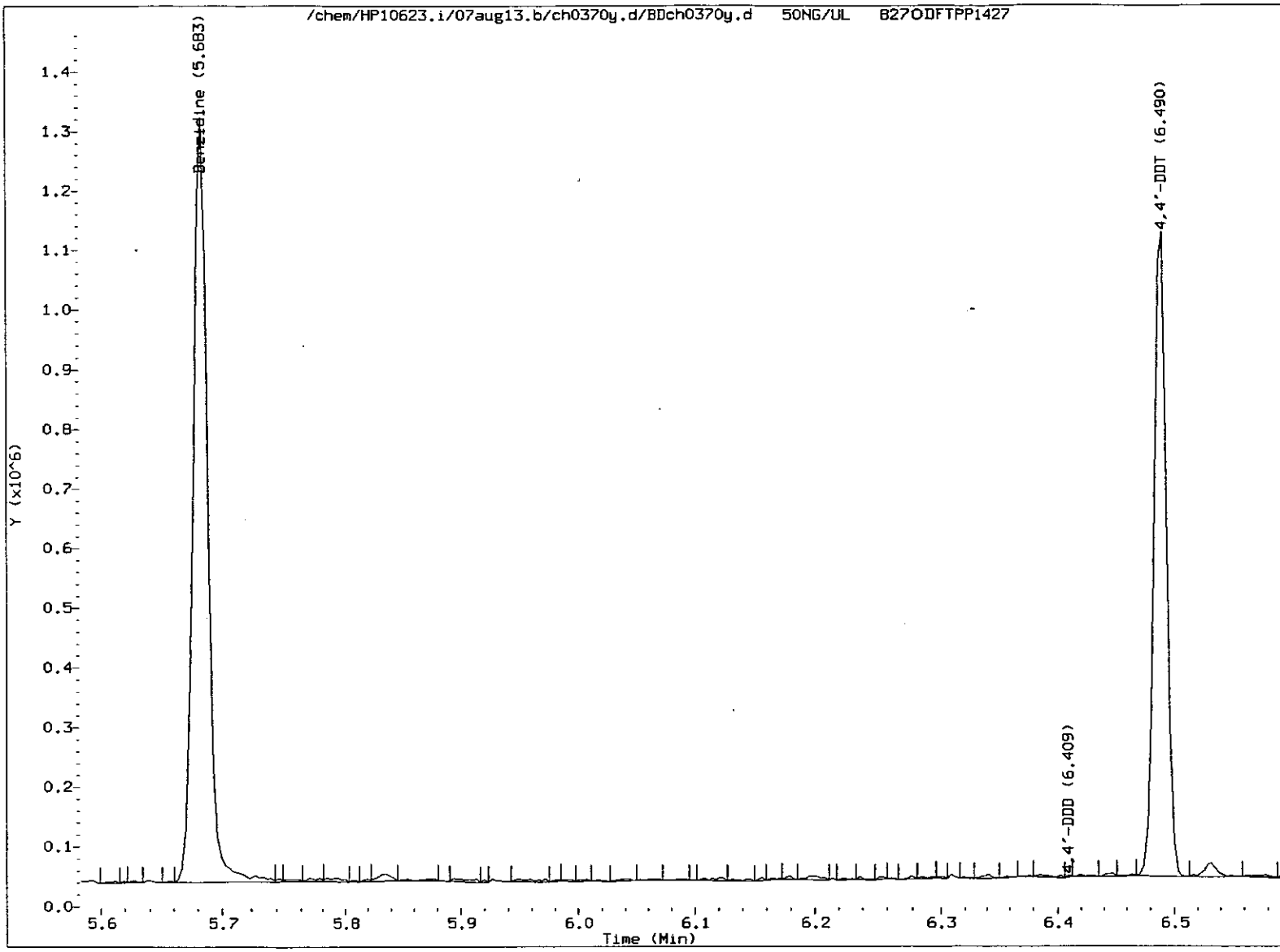
Benzidine EICP peak height = 517132 EICP peak height at 10% = 51713 Benzidine EICP area = 416905

Benzidine EICP peak apex (min.) = 5.683
RT at 10% of front half of EICP (min.) = 5.671 'Front' peak width (min.) = 0.0120166667
RT at 10% of back half of EICP (min.) = 5.694 'Tailing' peak width (min.) = 0.0113333333

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0113333333}{0.0120166667} = 0.943$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 14-AUG-2007 00:33 Operator: lmh00956



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 549}{0 + 549 + 813365} \times 100 = 0.1$$

8699

printed on 08/14/2007 at 00:42

Data File: /chem/HP10623.i/07aug15.b/ch0470.d

Date : 15-AUG-2007 19:53

Client ID: 50NG/UL

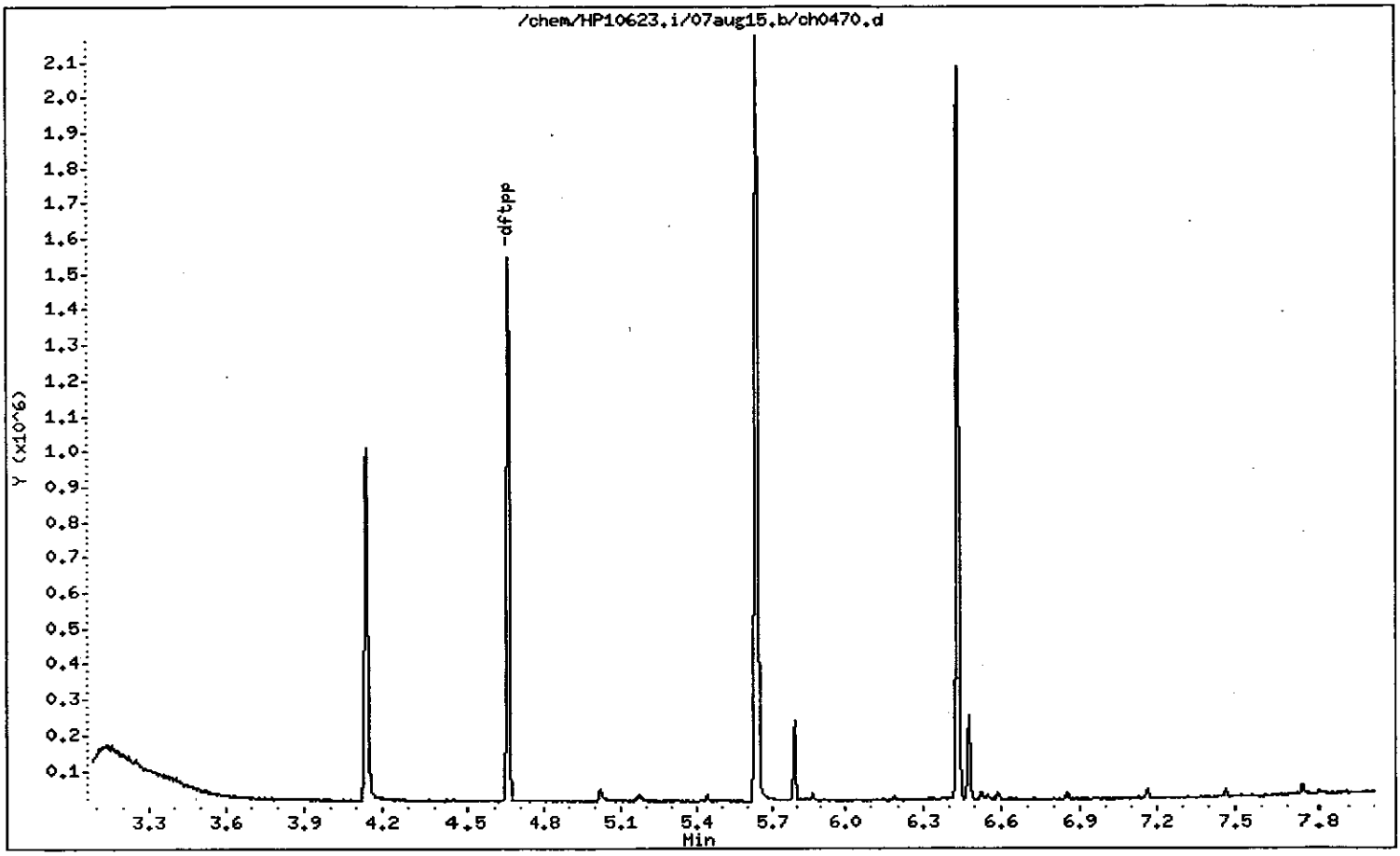
Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP10623.i/07aug15.b/ch0470.d

Date : 15-AUG-2007 19:53

Client ID: 50NG/UL

Instrument: HP10623.i

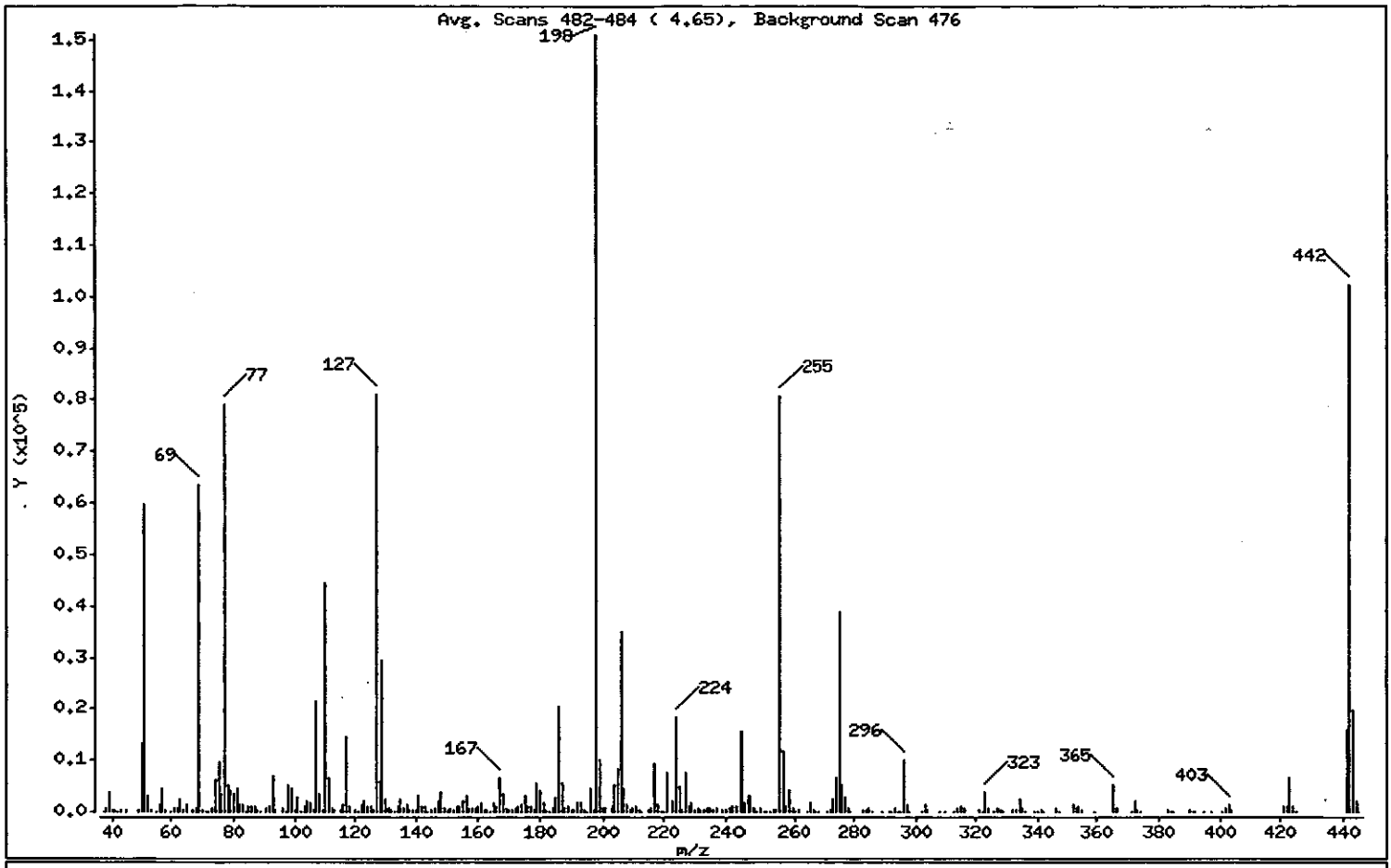
Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.47
68	Less than 2.00% of mass 69	0.50 (1.18)
69	Mass 69 relative abundance	42.00
70	Less than 2.00% of mass 69	0.23 (0.55)
127	40.00 - 60.00% of mass 198	53.88
197	Less than 1.00% of mass 198	0.32
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	25.68
365	Greater than 1.00% of mass 198	3.56
441	Present, but less than mass 443	10.55
442	40.00 - 99.99% of mass 198	67.75
443	17.00 - 23.00% of mass 442	13.07 (19.29)

Data File: /chem/HP10623.i/07aug15.b/ch0470.d

Date : 15-AUG-2007 19:53

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: ch0470.d

Spectrum: Avg. Scans 482-484 (4.65), Background Scan 476

Location of Maximum: 198.00

Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	78	123.00	2051	198.00	150976	284.00	240
38.00	529	124.00	1137	199.00	10013	285.00	681
39.00	3923	125.00	1040	200.00	863	286.00	68
40.00	377	126.00	239	201.00	799	289.00	88
41.00	309	127.00	81344	203.00	871	291.00	130
42.00	123	128.00	5903	204.00	5063	292.00	166
43.00	193	129.00	29528	205.00	8491	293.00	587
45.00	198	130.00	2565	206.00	35152	294.00	162
49.00	460	131.00	611	207.00	4354	295.00	129
50.00	13309	132.00	307	208.00	1272	296.00	10175
51.00	59592	133.00	8	209.00	418	297.00	1412
52.00	3211	134.00	962	210.00	630	298.00	115
53.00	242	135.00	2495	211.00	1184	302.00	151
55.00	163	136.00	744	212.00	443	303.00	1232
56.00	1454	137.00	1247	213.00	143	304.00	232
57.00	4389	138.00	337	215.00	298	308.00	124
58.00	310	139.00	284	216.00	671	310.00	140
60.00	163	140.00	249	217.00	9364	313.00	161
61.00	817	141.00	3088	218.00	1336	314.00	603
62.00	823	142.00	1148	219.00	61	315.00	1167
63.00	2431	143.00	876	220.00	51	316.00	789
64.00	354	144.00	163	221.00	7547	321.00	270
65.00	1424	145.00	301	223.00	1942	322.00	144
67.00	374	146.00	682	224.00	18408	323.00	3685
68.00	750	147.00	2059	225.00	4817	324.00	782
69.00	63416	148.00	3767	226.00	483	326.00	50
70.00	348	149.00	840	227.00	7634	327.00	655
71.00	49	150.00	229	228.00	1077	328.00	389
72.00	60	151.00	590	229.00	1617	329.00	55
73.00	847	152.00	291	230.00	175	332.00	286
74.00	6377	153.00	1149	231.00	641	333.00	374
75.00	9815	154.00	906	232.00	201	334.00	2438
76.00	3377	155.00	2142	233.00	236	335.00	638
77.00	79168	156.00	3290	234.00	567	336.00	135
78.00	5131	157.00	768	235.00	591	339.00	51

0702

Data File: /chem/HP10623.i/07aug15.b/ch0470.d

Date : 15-AUG-2007 19:53

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: ch0470.d

Spectrum: Avg. Scans 482-484 (4.65), Background Scan 476

Location of Maximum: 198.00

Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4096	158.00	585	236.00	350	340.00	153
80.00	3518	159.00	679	237.00	807	341.00	404
81.00	4441	160.00	1198	239.00	282	342.00	90
82.00	1227	161.00	1783	240.00	224	346.00	798
83.00	1503	162.00	439	241.00	617	347.00	77
84.00	82	163.00	240	242.00	1205	352.00	1392
85.00	874	164.00	138	243.00	939	353.00	797
86.00	1008	165.00	1608	244.00	15499	354.00	1057
87.00	910	166.00	1054	245.00	1839	355.00	235
88.00	235	167.00	6716	246.00	3233	359.00	65
89.00	120	168.00	3595	247.00	638	365.00	5373
91.00	772	169.00	621	248.00	54	366.00	767
92.00	1064	170.00	348	249.00	534	371.00	96
93.00	6821	171.00	447	250.00	66	372.00	2155
94.00	494	172.00	808	251.00	89	373.00	404
96.00	593	173.00	990	252.00	133	374.00	50
97.00	93	174.00	1340	253.00	383	383.00	424
98.00	5059	175.00	3061	254.00	336	384.00	73
99.00	4434	176.00	917	255.00	80928	385.00	66
100.00	323	177.00	1156	256.00	11963	390.00	284
101.00	2693	178.00	510	257.00	963	391.00	58
102.00	98	179.00	5513	258.00	4164	392.00	156
103.00	1178	180.00	4070	259.00	754	395.00	83
104.00	2034	181.00	1860	260.00	56	397.00	51
105.00	1620	182.00	297	261.00	251	401.00	58
106.00	321	183.00	135	264.00	132	402.00	736
107.00	21392	184.00	556	265.00	1894	403.00	1288
108.00	3441	185.00	2647	266.00	339	404.00	430
109.00	417	186.00	20352	267.00	60	421.00	891
110.00	44448	187.00	5630	268.00	66	422.00	1097
111.00	6605	188.00	607	271.00	155	423.00	6650
112.00	776	189.00	1093	272.00	203	424.00	1198
113.00	319	190.00	199	273.00	2586	425.00	125
115.00	300	191.00	484	274.00	6438	441.00	15930
116.00	1333	192.00	1626	275.00	38776	442.00	102304

8783

Data File: /chem/HP10623.i/07aug15.b/ch0470.d

Date : 15-AUG-2007 19:53

Client ID: 50NG/UL

Instrument: HP10623.i

Sample Info: 50NG/UL;8270DFTPP1427;

Operator: lmh00956

Column phase: DB-5

Column diameter: 0.25

Data File: ch0470.d

Spectrum: Avg. Scans 482-484 (4.65), Background Scan 476

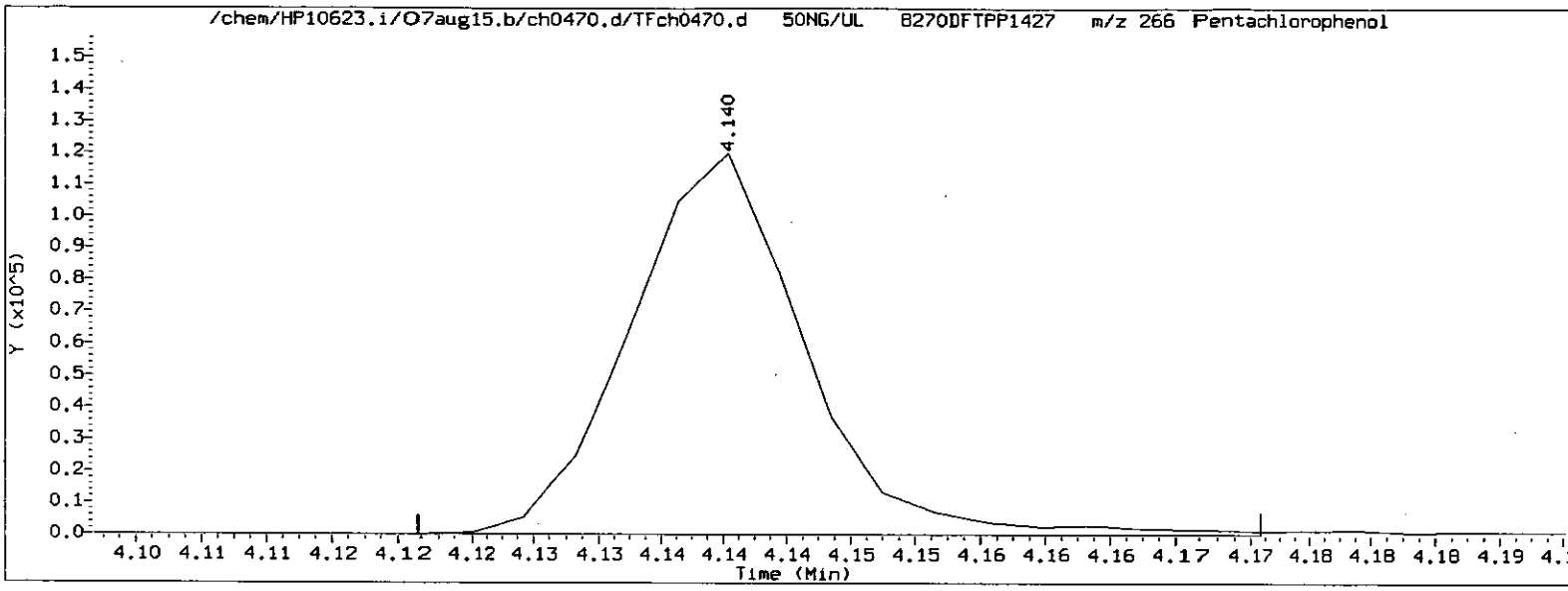
Location of Maximum: 198.00

Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	14669	193.00	1843	276.00	5250	443.00	19728
118.00	1079	194.00	485	277.00	2871	444.00	2061
120.00	301	195.00	67	278.00	584	445.00	54
121.00	135	196.00	4443	279.00	65		
122.00	1518	197.00	479	283.00	242		

Assessment of GC Column Performance and Injection Port Inertness for

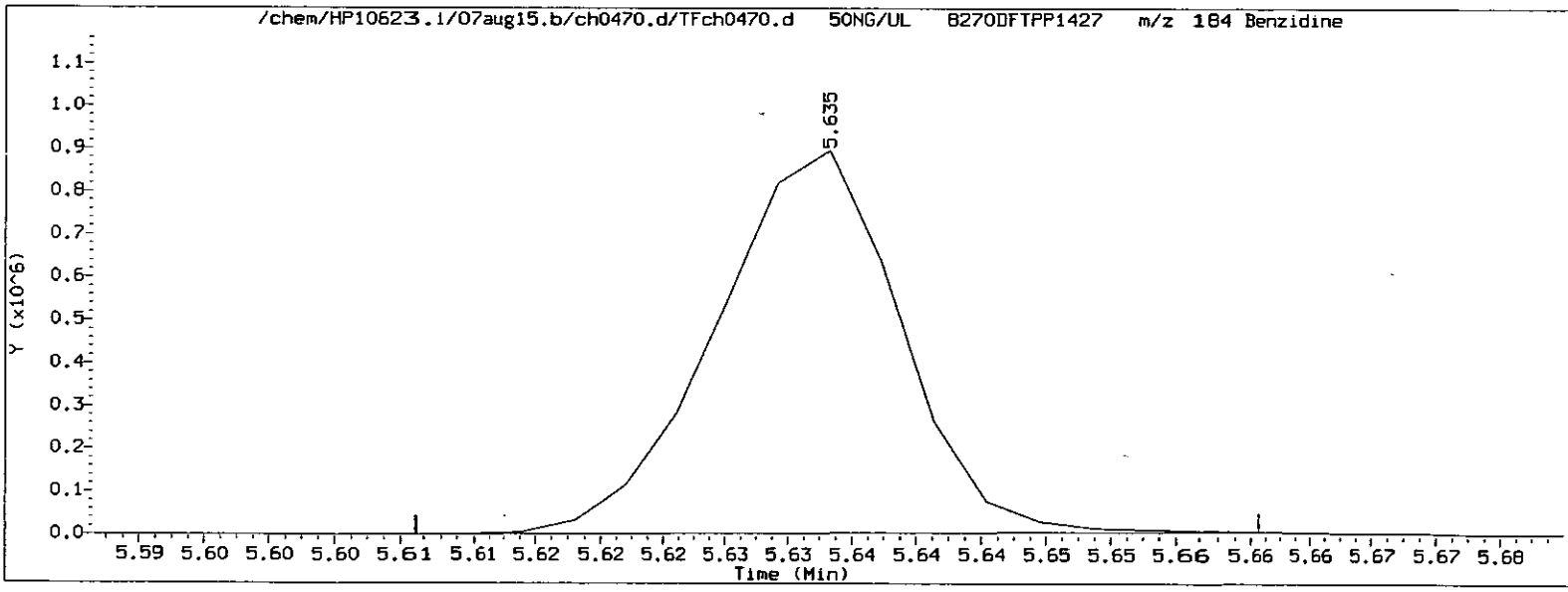
Instrument ID: HP10623.i Injection Date: 15-AUG-2007 19:53 Operator: lmh00956



Pentachlorophenol EICP peak height = 120072 EICP peak height at 10% = 12007 Pentachlorophenol EICP area = 91573

Pentachlorophenol EICP peak apex (min.) = 4.140
RT at 10% of front half of EICP (min.) = 4.129 'Front' peak width (min.) = 0.0117666667
RT at 10% of back half of EICP (min.) = 4.150 'Tailing' peak width (min.) = 0.0101833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0101833333}{0.0117666667} = 0.865$



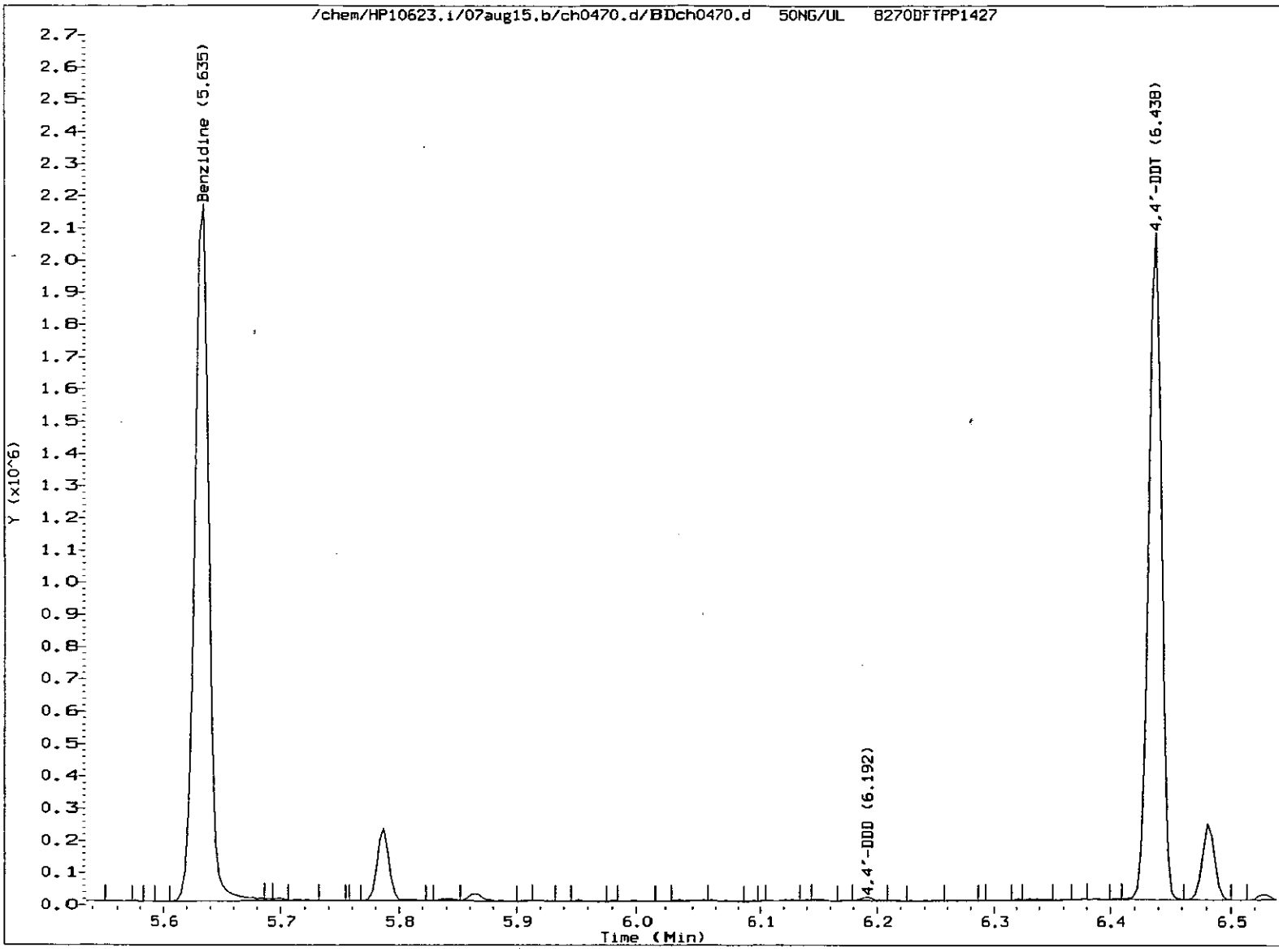
Benzidine EICP peak height = 892894 EICP peak height at 10% = 89289 Benzidine EICP area = 719607

Benzidine EICP peak apex (min.) = 5.635
RT at 10% of front half of EICP (min.) = 5.621 'Front' peak width (min.) = 0.0138666667
RT at 10% of back half of EICP (min.) = 5.644 'Tailing' peak width (min.) = 0.0094500000

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0094500000}{0.0138666667} = 0.681$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP10623.i Injection Date: 15-AUG-2007 19:53 Operator: lmh00956



$$\%\ 4,4'\text{-DDT breakdown} = \frac{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area}}{4,4'\text{-DDE TIC area} + 4,4'\text{-DDD TIC area} + 4,4'\text{-DDT TIC area}} \times 100$$

$$\%\ 4,4'\text{-DDT breakdown} = \frac{0 + 6941}{0 + 6941 + 1566041} \times 100 = 0.4$$

8706

printed on 08/15/2007 at 21:05

Data File: /chem/HP11165.i/07jul30a.b/gg1180.d

Date : 30-JUL-2007 19:24

Client ID: 8270DFTPP1907

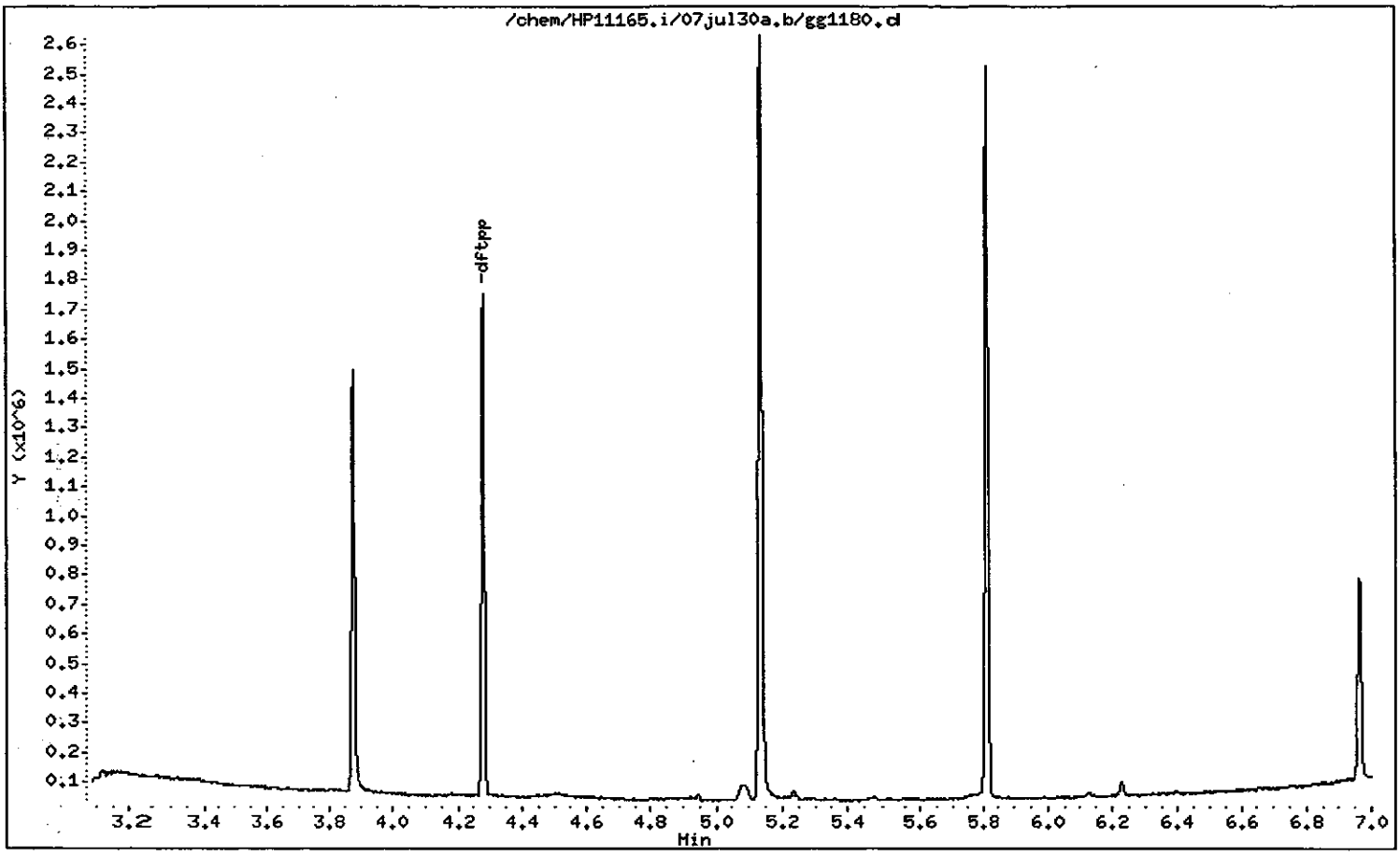
Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP11165.i/07jul30a.b/gg1180.d

Date : 30-JUL-2007 19:24

Client ID: 8270DFTPP1907

Instrument: HP11165.i

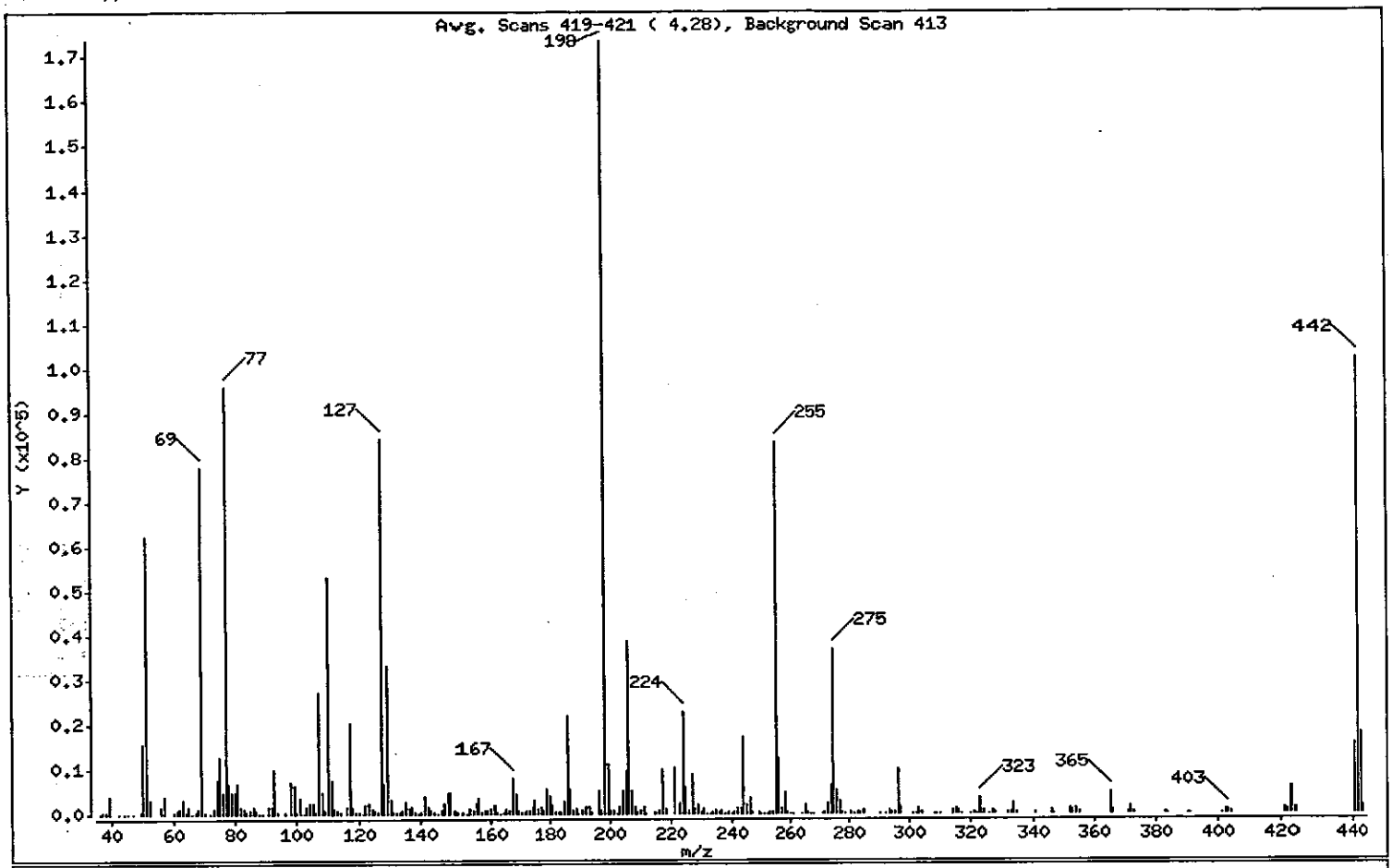
Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.76
68	Less than 2.00% of mass 69	0.74 (1.65)
69	Mass 69 relative abundance	44.83
70	Less than 2.00% of mass 69	0.14 (0.31)
127	40.00 - 60.00% of mass 198	48.54
197	Less than 1.00% of mass 198	0.44
199	5.00 - 9.00% of mass 198	6.43
275	10.00 - 30.00% of mass 198	21.14
365	Greater than 1.00% of mass 198	2.82
441	Present, but less than mass 443	9.00
442	40.00 - 99.99% of mass 198	58.81
443	17.00 - 23.00% of mass 442	10.38 (17.65)

8788

Data File: /chem/HP11165.i/07jul30a.b/gg1180.d

Date : 30-JUL-2007 19:24

Client ID: 8270DFTPP1907 Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5 Column diameter: 0.25

Data File: gg1180.d
Spectrum: Avg. Scans 419-421 (4.28), Background Scan 413
Location of Maximum: 198.00
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	85	122.00	1803	193.00	1788	275.00	36728
37.00	249	123.00	2343	194.00	496	276.00	5167
38.00	564	124.00	1268	196.00	5363	277.00	2807
39.00	3988	125.00	812	197.00	765	278.00	436
42.00	22	126.00	360	198.00	173760	279.00	161
44.00	109	127.00	84344	199.00	11165	281.00	280
45.00	19	128.00	6645	200.00	904	282.00	132
47.00	108	129.00	33232	201.00	941	283.00	548
49.00	350	130.00	3073	202.00	73	284.00	278
50.00	15568	131.00	333	203.00	1488	285.00	910
51.00	62128	132.00	264	204.00	5318	290.00	161
52.00	3194	133.00	206	205.00	9467	292.00	128
56.00	1607	134.00	855	206.00	38800	293.00	794
57.00	4150	135.00	2872	207.00	5359	294.00	349
60.00	204	136.00	1134	208.00	1416	295.00	220
61.00	938	137.00	1409	209.00	575	296.00	10026
62.00	1165	138.00	429	210.00	790	297.00	1476
63.00	3216	139.00	120	211.00	1547	301.00	172
64.00	453	140.00	322	212.00	98	302.00	68
65.00	1561	141.00	4071	215.00	590	303.00	1343
66.00	194	142.00	1645	216.00	917	304.00	240
67.00	244	143.00	891	217.00	9977	308.00	51
68.00	1284	144.00	298	218.00	1249	309.00	57
69.00	77904	145.00	194	221.00	10217	310.00	110
70.00	241	146.00	750	223.00	2388	314.00	604
72.00	27	147.00	2290	224.00	22584	315.00	1007
73.00	1108	148.00	4617	225.00	6124	316.00	705
74.00	7674	149.00	947	226.00	658	317.00	51
75.00	12719	150.00	346	227.00	8919	320.00	56
76.00	4636	151.00	444	228.00	1332	321.00	315
77.00	95904	152.00	194	229.00	2040	322.00	174
78.00	6867	153.00	1197	230.00	266	323.00	3422
79.00	4890	154.00	959	231.00	1093	324.00	699
80.00	4926	155.00	2364	232.00	111	326.00	107
81.00	6634	156.00	3433	233.00	184	327.00	832

6789

Data File: /chem/HP11165.i/07jul30a.b/gg1180.d

Date : 30-JUL-2007 19:24

Client ID: 8270DFTPP1907

Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

Data File: gg1180.d

Spectrum: Avg. Scans 419-421 (4.28), Background Scan 413

Location of Maximum: 198.00

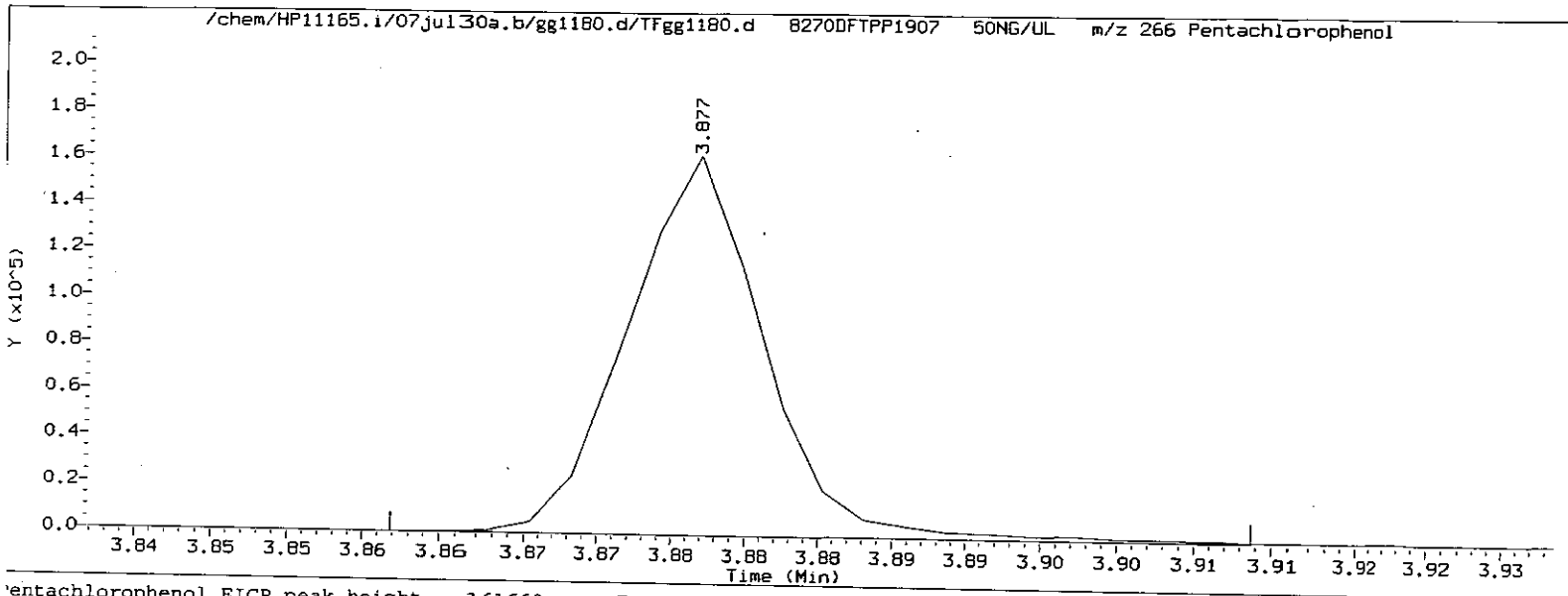
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1589	157.00	438	234.00	449	328.00	388
83.00	1290	158.00	667	235.00	666	332.00	277
84.00	210	159.00	798	236.00	587	333.00	308
85.00	984	160.00	1333	237.00	638	334.00	2304
86.00	1429	161.00	2055	238.00	55	335.00	597
87.00	723	162.00	545	239.00	467	341.00	328
88.00	84	163.00	114	240.00	182	346.00	751
89.00	54	164.00	300	241.00	337	347.00	139
91.00	1521	165.00	1290	242.00	1082	352.00	1050
92.00	1681	166.00	852	243.00	1018	353.00	763
93.00	10044	167.00	8017	244.00	17112	354.00	1045
94.00	577	168.00	4545	245.00	2012	355.00	241
96.00	282	169.00	784	246.00	3490	365.00	4905
98.00	7299	170.00	223	247.00	586	366.00	702
99.00	6580	171.00	431	249.00	542	371.00	301
100.00	558	172.00	693	250.00	168	372.00	1717
101.00	3709	173.00	883	251.00	165	373.00	368
102.00	181	174.00	1564	252.00	144	383.00	456
103.00	1415	175.00	3374	253.00	298	384.00	119
104.00	2368	176.00	1004	254.00	427	390.00	182
105.00	2270	177.00	1496	255.00	83680	391.00	91
106.00	525	178.00	601	256.00	12248	401.00	149
107.00	27032	179.00	5598	257.00	1022	402.00	609
108.00	4658	180.00	4158	258.00	4634	403.00	735
109.00	626	181.00	1839	259.00	538	404.00	256
110.00	52968	182.00	398	260.00	158	421.00	1087
111.00	7677	183.00	234	261.00	52	422.00	736
112.00	1091	184.00	502	264.00	96	423.00	6005
113.00	706	185.00	2719	265.00	2154	424.00	1158
114.00	285	186.00	21888	266.00	422	441.00	15638
116.00	1562	187.00	5548	267.00	109	442.00	102184
117.00	20272	188.00	637	268.00	59	443.00	18040
118.00	1522	189.00	1275	271.00	71	444.00	1572
119.00	218	190.00	180	272.00	205		
120.00	423	191.00	865	273.00	2413		

8710

Assessment of GC Column Performance and Injection Port Inertness for

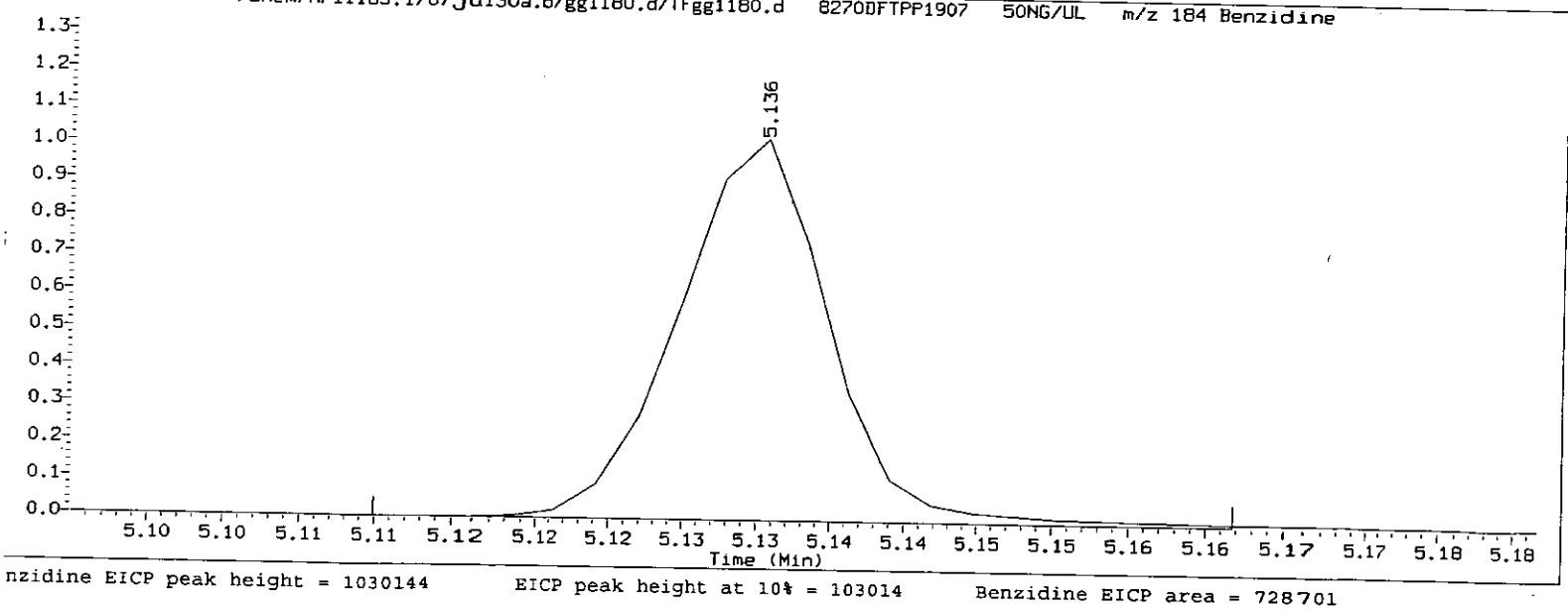
Instrument ID: HP11165.i Injection Date: 30-JUL-2007 19:24 Operator: gjd01970



entachlorophenol EICP peak height = 161660 EICP peak height at 10% = 16166 Pentachlorophenol EICP area = 103764

entachlorophenol EICP peak apex (min.) = 3.877
T at 10% of front half of EICP (min.) = 3.867 'Front' peak width (min.) = 0.0096666667
T at 10% of back half of EICP (min.) = 3.886 'Tailing' peak width (min.) = 0.0093333333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0093333333}{0.0096666667} = 0.966$



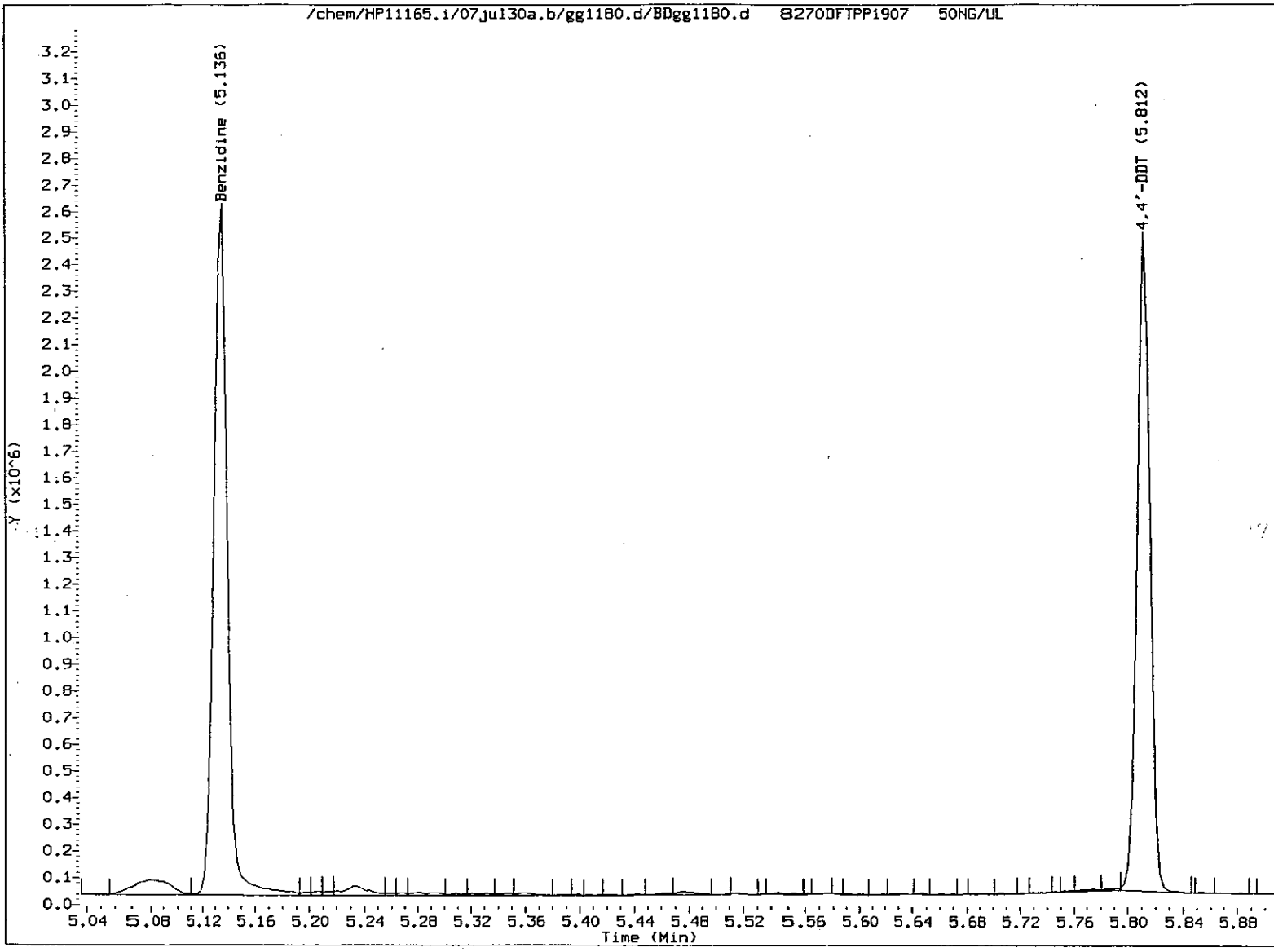
nzidine EICP peak height = 1030144 EICP peak height at 10% = 103014 Benzidine EICP area = 728701

nzidine EICP peak apex (min.) = 5.136
at 10% of front half of EICP (min.) = 5.124 'Front' peak width (min.) = 0.0111666667
at 10% of back half of EICP (min.) = 5.144 'Tailing' peak width (min.) = 0.0088000000

enzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0088000000}{0.0111666667} = 0.788$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP11165.i Injection Date: 30-JUL-2007 19:24 Operator: gjd0197(



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 1593232} \times 100 = 0.0$$

0712

Data File: /chem/HP11165.i/07aug03a.b/gh0150.d

Date : 03-AUG-2007 19:40

Client ID: 8270DFTPP1907

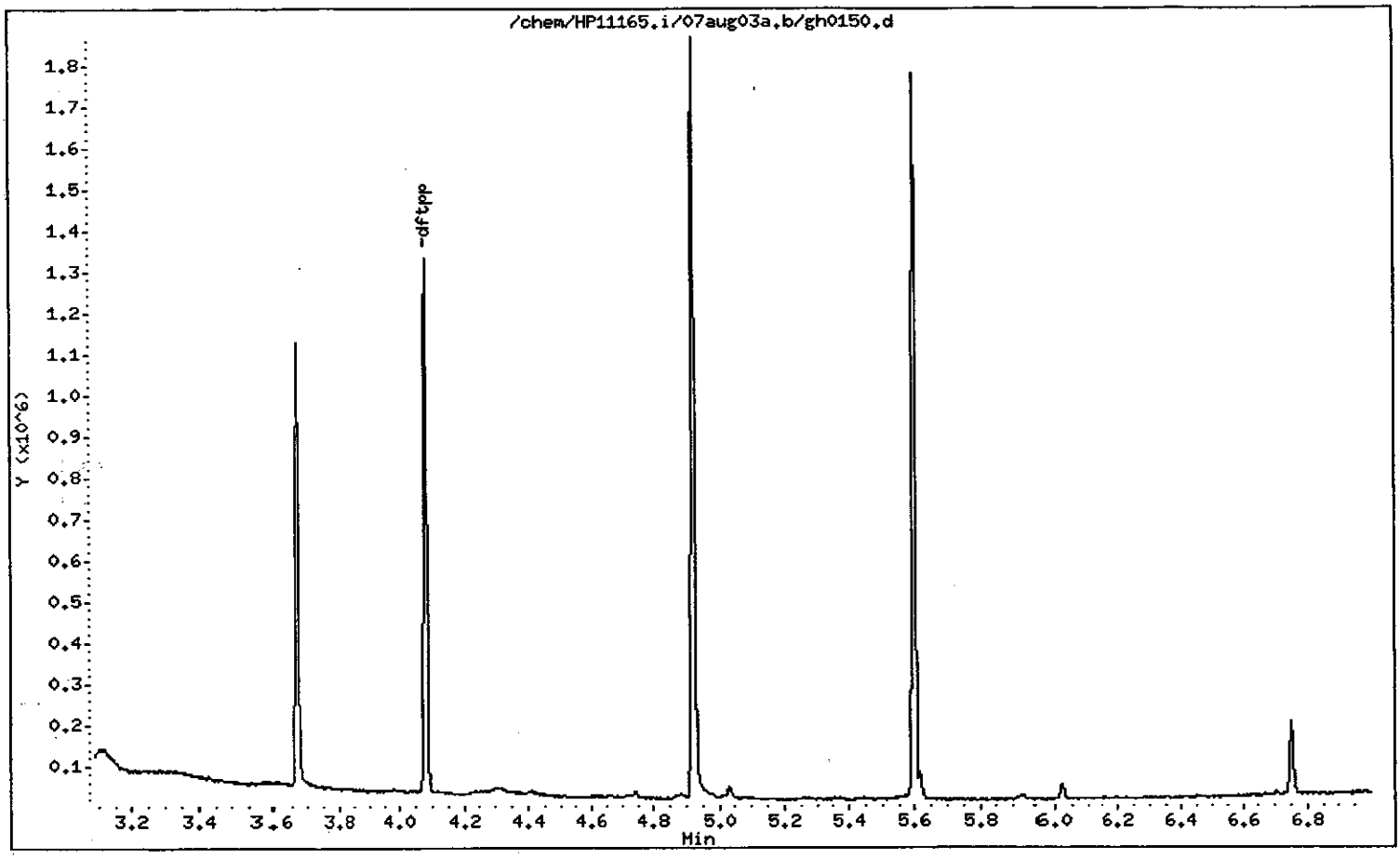
Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25



Data File: /chem/HP11165.i/07aug03a.b/gh0150.d

Date : 03-AUG-2007 19:40

Client ID: 8270DFTPP1907

Instrument: HP11165.i

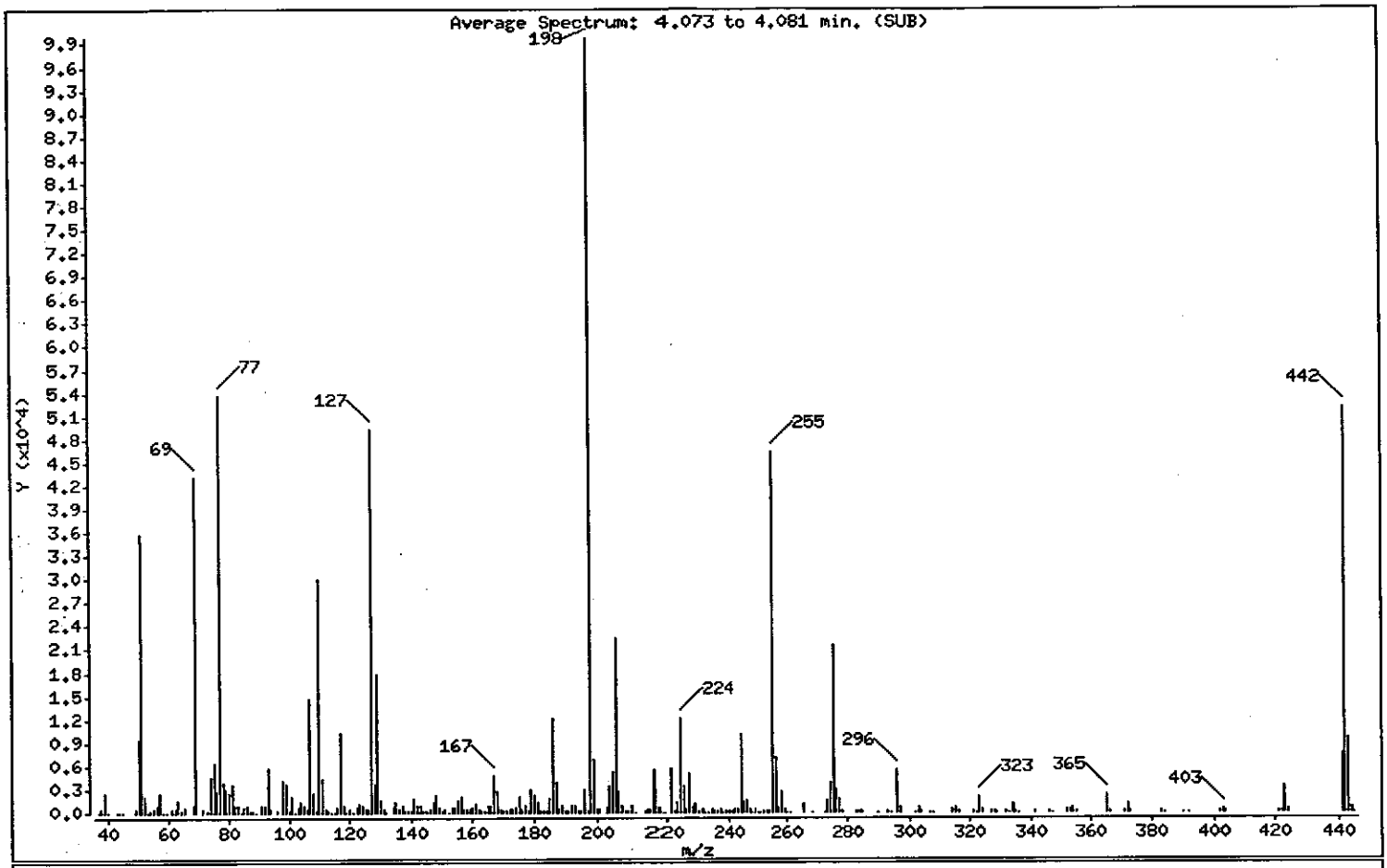
Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.89
68	Less than 2.00% of mass 69	0.86 (1.99)
69	Mass 69 relative abundance	43.21
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.46
197	Less than 1.00% of mass 198	0.19
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	21.54
365	Greater than 1.00% of mass 198	2.40
441	Present, but less than mass 443	7.69
442	40.00 - 99.99% of mass 198	52.11
443	17.00 - 23.00% of mass 442	9.70 (18.61)

8714

Data File: /chem/HP11165.i/07aug03a.b/gh0150.d

Date : 03-AUG-2007 19:40

Client ID: 8270DFTPP1907 Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5 Column diameter: 0.25

Data File: gh0150.d
Spectrum: Average Spectrum: 4.073 to 4.081 min. (SUB)
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	102	119.00	78	189.00	871	265.00	1094
38.00	421	120.00	360	190.00	236	268.00	41
39.00	2414	121.00	50	191.00	299	272.00	51
40.00	104	122.00	635	192.00	962	273.00	1517
43.00	35	123.00	1133	193.00	1004	274.00	3793
44.00	105	124.00	878	194.00	182	275.00	21488
45.00	98	125.00	534	195.00	191	276.00	3067
49.00	559	126.00	450	196.00	2875	277.00	1820
50.00	9293	127.00	49360	197.00	194	278.00	329
51.00	35816	128.00	3714	198.00	99800	283.00	167
52.00	1972	129.00	17904	199.00	6845	284.00	161
53.00	4	130.00	1612	200.00	461	285.00	266
54.00	266	131.00	471	201.00	526	290.00	62
55.00	429	132.00	43	203.00	781	293.00	276
56.00	879	134.00	661	204.00	3459	294.00	39
57.00	2623	135.00	1345	205.00	5285	296.00	5399
58.00	7	136.00	526	206.00	22400	297.00	773
59.00	15	137.00	810	207.00	2769	302.00	71
61.00	564	138.00	245	208.00	814	303.00	733
62.00	529	139.00	261	209.00	205	304.00	187
63.00	1638	140.00	159	210.00	310	307.00	39
64.00	216	141.00	1949	211.00	985	308.00	41
65.00	750	142.00	923	212.00	46	314.00	363
68.00	859	143.00	811	215.00	246	315.00	707
69.00	43128	144.00	116	216.00	550	316.00	344
71.00	393	145.00	258	217.00	5505	321.00	151
73.00	287	146.00	384	218.00	796	322.00	58
74.00	4518	147.00	1395	219.00	45	323.00	1957
75.00	6400	148.00	2319	221.00	5713	324.00	367
76.00	2656	149.00	684	222.00	344	327.00	298
77.00	53640	150.00	229	223.00	1302	328.00	166
78.00	4009	151.00	441	224.00	12108	329.00	38
79.00	2984	152.00	66	225.00	3376	332.00	188
80.00	2623	153.00	735	226.00	387	333.00	97
81.00	3722	154.00	743	227.00	4951	334.00	1110

0715

Data File: /chem/HP11165.i/07aug03a.b/gh0150.d

Date : 03-AUG-2007 19:40

Client ID: 8270DFTPP1907 Instrument: HP11165.i

Sample Info: 8270DFTPP1907;50NG/UL;

Operator: gjd01970

Column phase: DB-5 Column diameter: 0.25

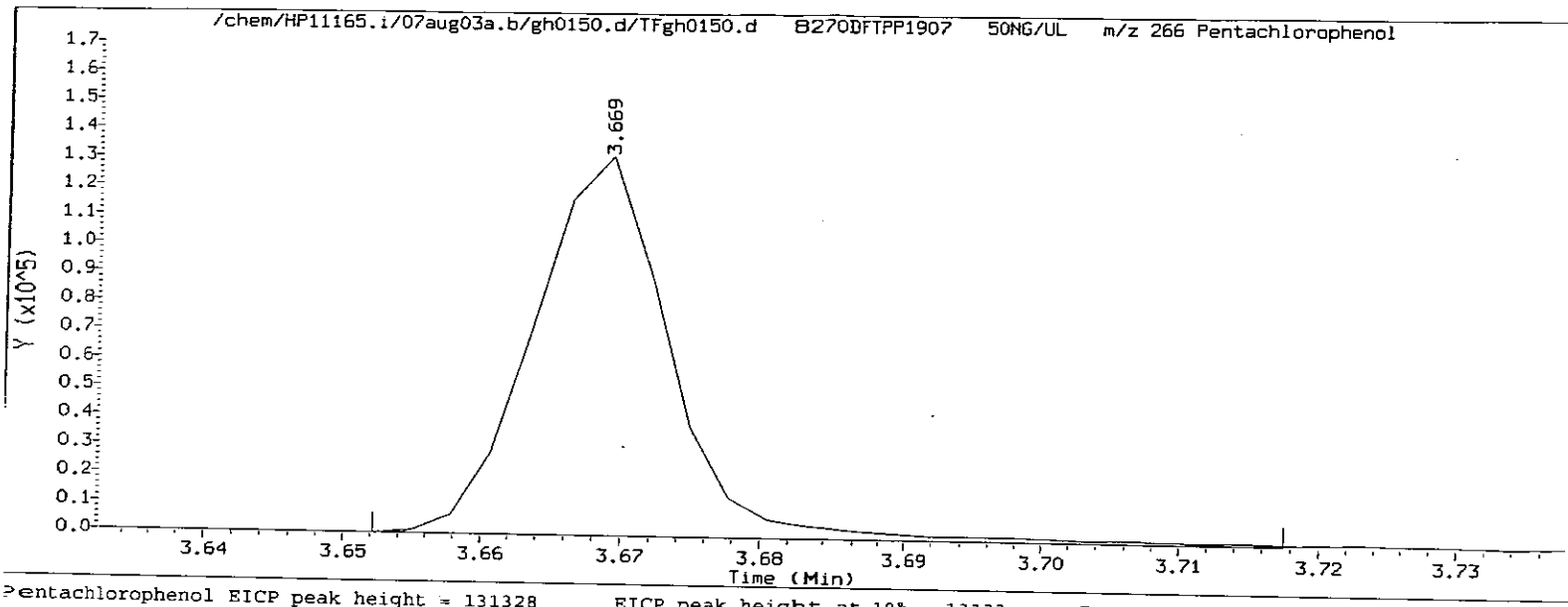
Data File: gh0150.d
Spectrum: Average Spectrum: 4.073 to 4.081 min. (SUB)
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	907	155.00	1533	228.00	800	335.00	258
83.00	881	156.00	1972	229.00	1061	336.00	49
84.00	103	157.00	437	230.00	183	341.00	226
85.00	735	158.00	435	231.00	494	346.00	331
86.00	1005	159.00	439	232.00	110	347.00	40
87.00	303	160.00	654	233.00	41	352.00	474
88.00	226	161.00	1072	234.00	371	353.00	421
89.00	97	162.00	362	235.00	273	354.00	580
91.00	941	163.00	255	236.00	276	355.00	147
92.00	810	164.00	158	237.00	549	365.00	2400
93.00	5687	165.00	961	238.00	41	366.00	335
94.00	400	166.00	815	239.00	163	371.00	174
96.00	215	167.00	4768	240.00	133	372.00	1184
98.00	4096	168.00	2655	241.00	248	373.00	165
99.00	3648	169.00	373	242.00	419	383.00	226
100.00	329	170.00	185	243.00	528	384.00	60
101.00	2077	171.00	218	244.00	10129	390.00	100
102.00	73	172.00	467	245.00	1465	392.00	53
103.00	802	173.00	569	246.00	1620	402.00	263
104.00	1434	174.00	754	247.00	365	403.00	522
105.00	986	175.00	2015	248.00	38	404.00	141
106.00	506	176.00	540	249.00	384	421.00	322
107.00	14745	177.00	894	250.00	58	422.00	281
108.00	2457	178.00	266	251.00	62	423.00	3490
109.00	330	179.00	3006	252.00	165	424.00	551
110.00	29968	180.00	2385	253.00	298	441.00	7679
111.00	4363	181.00	1323	254.00	130	442.00	52000
112.00	430	182.00	222	255.00	46368	443.00	9679
113.00	148	183.00	199	256.00	7006	444.00	792
114.00	82	184.00	232	257.00	653	445.00	42
115.00	4	185.00	1780	258.00	2763		
116.00	669	186.00	12113	259.00	426		
117.00	10220	187.00	3789	260.00	41		
118.00	813	188.00	388	261.00	41		

8716

Assessment of GC Column Performance and Injection Port Inertness for

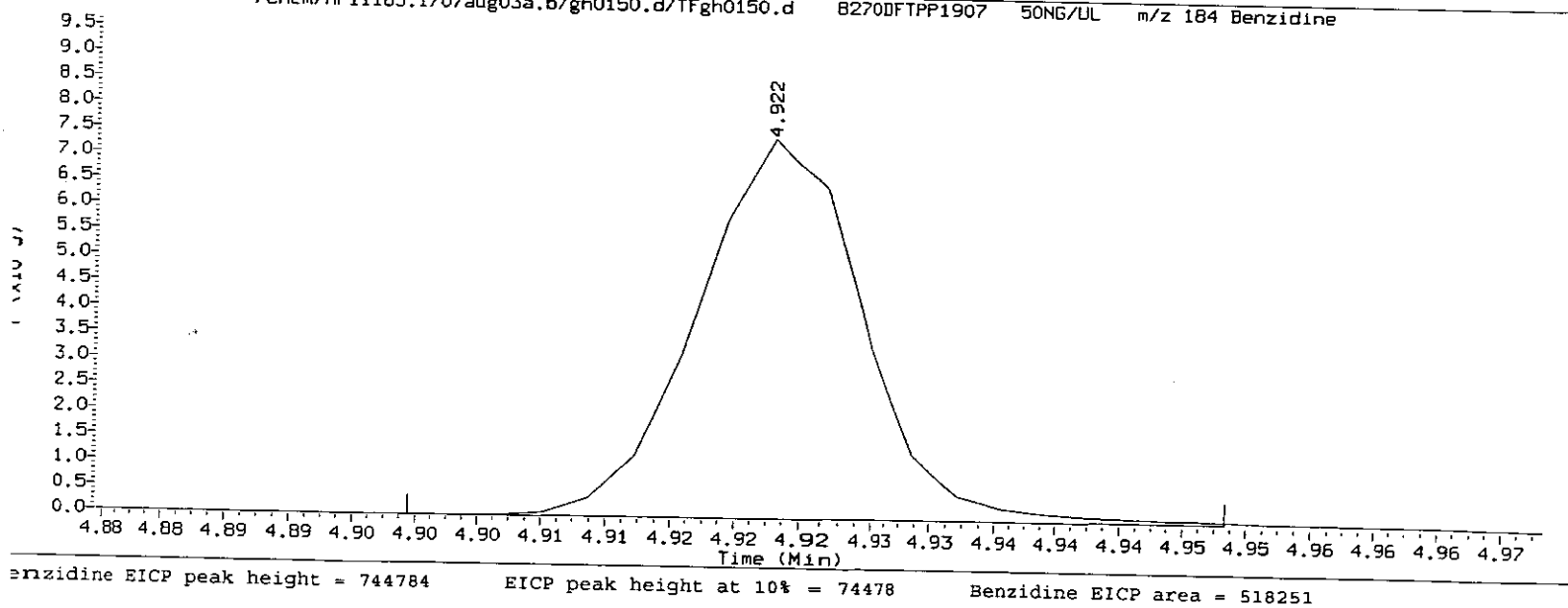
Instrument ID: HP11165.i Injection Date: 03-AUG-2007 19:40 Operator: gjd0197



Pentachlorophenol EICP peak height = 131328 EICP peak height at 10% = 13133 Pentachlorophenol EICP area = 88739

Pentachlorophenol EICP peak apex (min.) = 3.669
RT at 10% of front half of EICP (min.) = 3.659 'Front' peak width (min.) = 0.0104833333
RT at 10% of back half of EICP (min.) = 3.678 'Tailing' peak width (min.) = 0.0086833333

PCP tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0086833333}{0.0104833333} = 0.828$



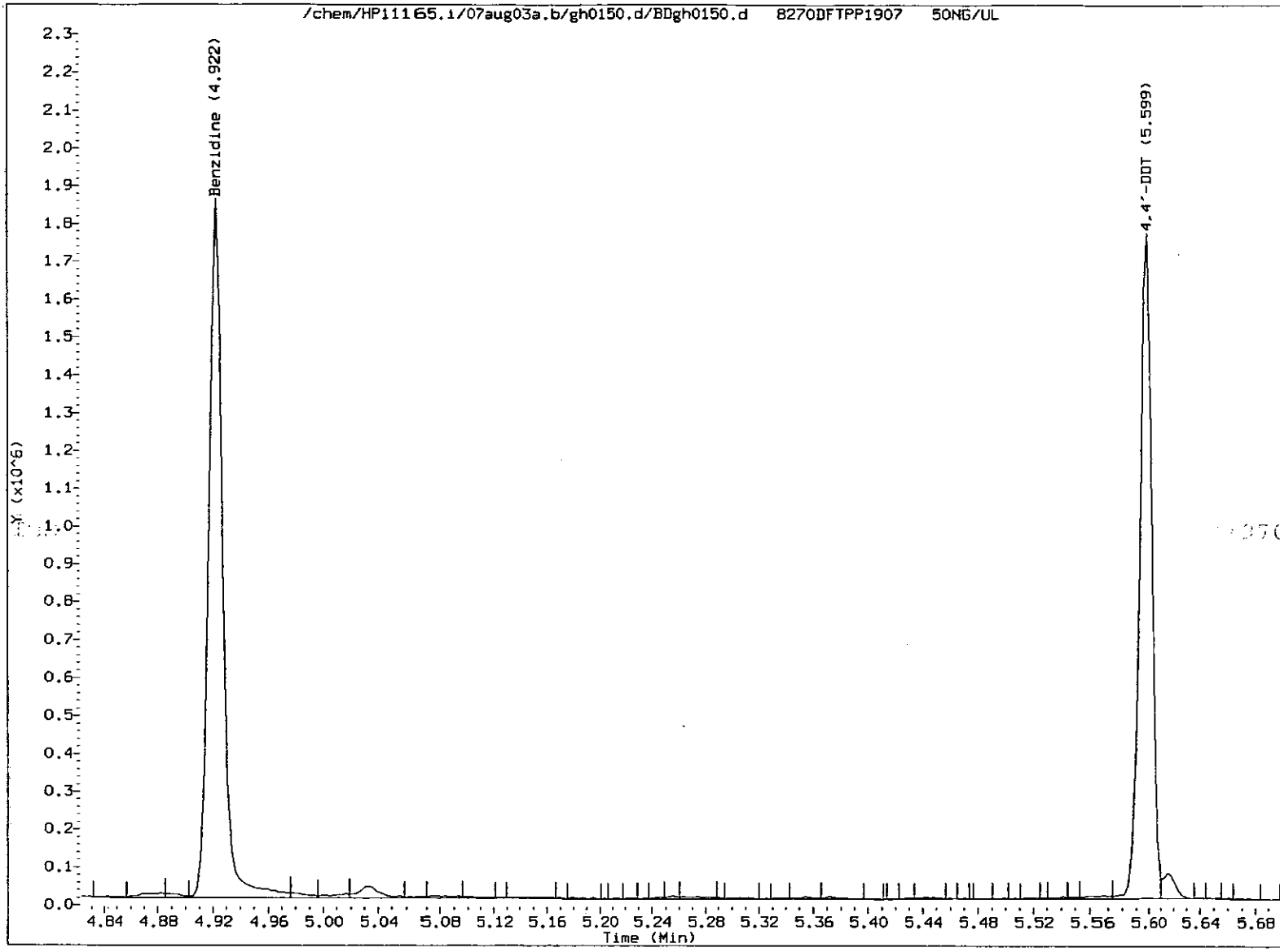
Benzidine EICP peak height = 744784 EICP peak height at 10% = 74478 Benzidine EICP area = 518251

Benzidine EICP peak apex (min.) = 4.922
RT at 10% of front half of EICP (min.) = 4.912 'Front' peak width (min.) = 0.0099833333
RT at 10% of back half of EICP (min.) = 4.933 'Tailing' peak width (min.) = 0.0103666667

Benzidine tailing factor = $\frac{\text{'Tailing' peak width (min.)}}{\text{'Front' peak width (min.)}} = \frac{0.0103666667}{0.0099833333} = 1.038$

Assessment of GC Column Performance and Injection Port Inertness for

Instrument ID: HP11165.i Injection Date: 03-AUG-2007 19:40 Operator: gjd01970



$$\% \text{ 4,4'-DDT breakdown} = \frac{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area}}{\text{4,4'-DDE TIC area + 4,4'-DDD TIC area + 4,4'-DDT TIC area}} \times 100$$

$$\% \text{ 4,4'-DDT breakdown} = \frac{0 + 0}{0 + 0 + 1190087} \times 100 = 0.0$$

printed on 08/03/2007 at 19:50

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKWD2157

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: SBLKWD215

Sample wt/vol: 1000 (g/mL)ML Lab File ID: gh0157.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/03/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/03/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL	UG/L	Q
91-20-3	Naphthalene		1	U
208-96-8	Acenaphthylene		1	U
83-32-9	Acenaphthene		1	U
86-73-7	Fluorene		1	U
85-01-8	Phenanthrene		1	U
120-12-7	Anthracene		1	U
206-44-0	Fluoranthene		1	U
129-00-0	Pyrene		1	U
56-55-3	Benzo(a)anthracene		1	U
218-01-9	Chrysene		1	U
205-99-2	Benzo(b)fluoranthene		1	U
207-08-9	Benzo(k)fluoranthene		1	U
50-32-8	Benzo(a)pyrene		1	U
193-39-5	Indeno(1,2,3-cd)pyrene		1	U
53-70-3	Dibenz(a,h)anthracene		1	U
191-24-2	Benzo(g,h,i)perylene		1	U

8719

SBLKWD2157 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWD215

Data file: /chem/HP11165.i/07aug03a.b/gh0157.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 22:30 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:42 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.916(0.000)	585	152.0	148813(-11)	40.00	
52) Naphthalene-d8	6.066(0.000)	800	136.0	621476(-17)	40.00	
97) Acenaphthene-d10	7.542(0.005)	1076	164.0	410049(-16)	40.00	
134) Phenanthrene-d10	8.762(0.005)	1304	188.0	802991(-11)	40.00	
166) Chrysene-d12	10.944(0.010)	1712	240.0	829840(2)	40.00	
174) Perylene-d12	12.399(0.010)	1984	264.0	598385(-17)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.435(0.002)	82	571363	85.730	86%		51 - 123
77) 2-Fluorobiphenyl	(3)	6.996(0.000)	172	1173414	92.743	93%		63 - 118
155) Terphenyl-d14	(5)	10.088(-0.001)	244	1654965	97.228	97%		52 - 151

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng
53) Naphthalene	(2)				ND	ND			1.00
94) Acenaphthylene	(3)				Below MDL, Do not report				1.00
98) Acenaphthene	(3)				ND	ND			1.00
110) Fluorene	(3)				Below MDL, Do not report				1.00
136) Phenanthrene	(4)				Below MDL, Do not report				1.00
137) Anthracene	(4)				Below MDL, Do not report				1.00
146) Fluoranthene	(4)				Below MDL, Do not report				1.00
153) Pyrene	(5)				Below MDL, Do not report				1.00
165) Benzo(a)anthracene	(5)				Below MDL, Do not report				1.00
167) Chrysene	(5)				Below MDL, Do not report				1.00
171) Benzo(b)fluoranthene	(6)				Below MDL, Do not report				1.00
172) Benzo(k)fluoranthene	(6)				Below MDL, Do not report				1.00
173) Benzo(a)pyrene	(6)				Below MDL, Do not report				1.00
176) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			1.00
177) Dibenz(a,h)anthracene	(6)				ND	ND			1.00
178) Benzo(g,h,i)perylene	(6)				ND	ND			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

8720

SBLKWD2157 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKWD215

Data file: /chem/HP11165.i/07aug03a.b/gh0157.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 22:30 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:42 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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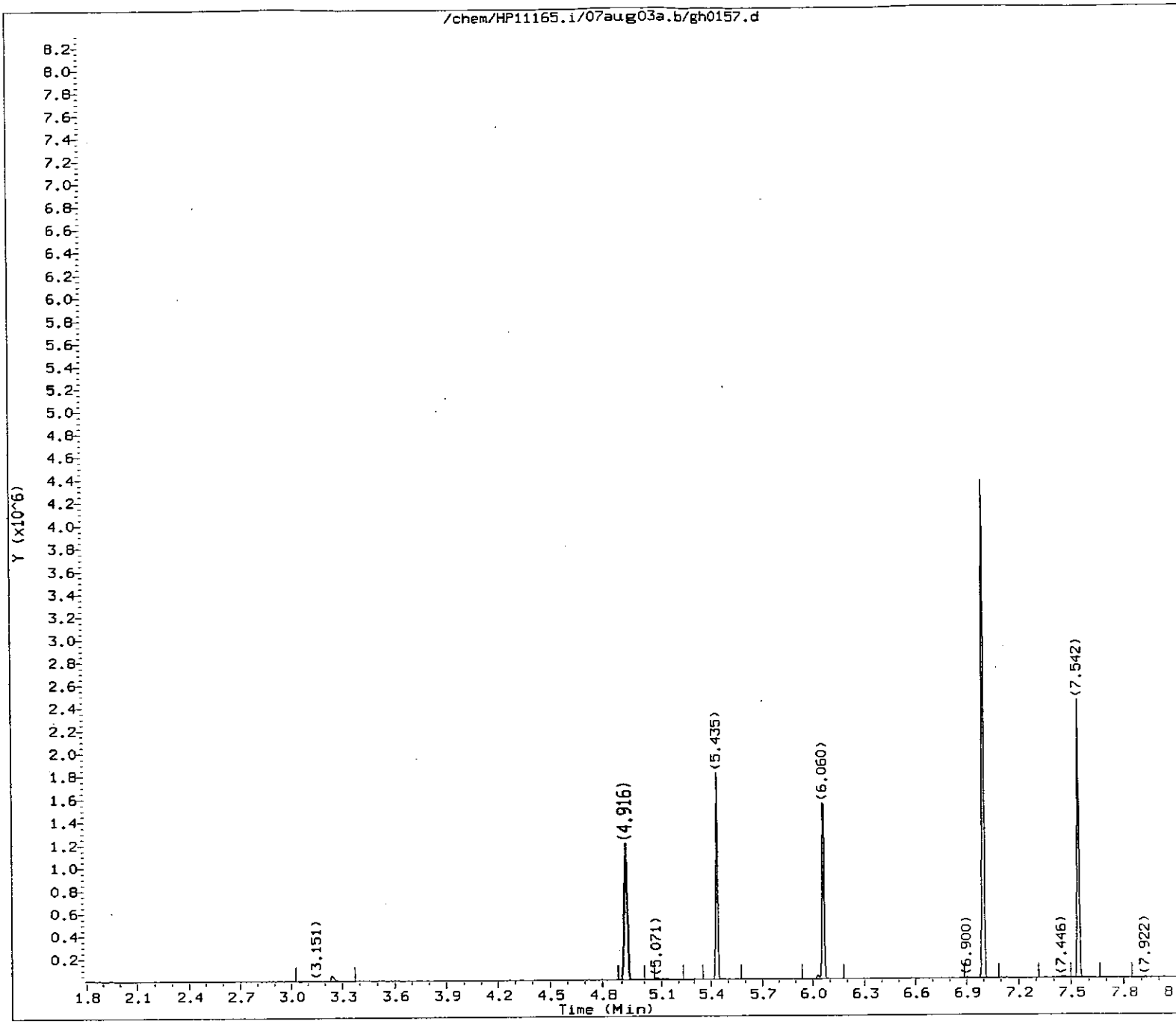
Total number of targets = 16

Comments:

Analyst: Date: 8/5/07
Auditor: Date: 8/10/07



Quant Report

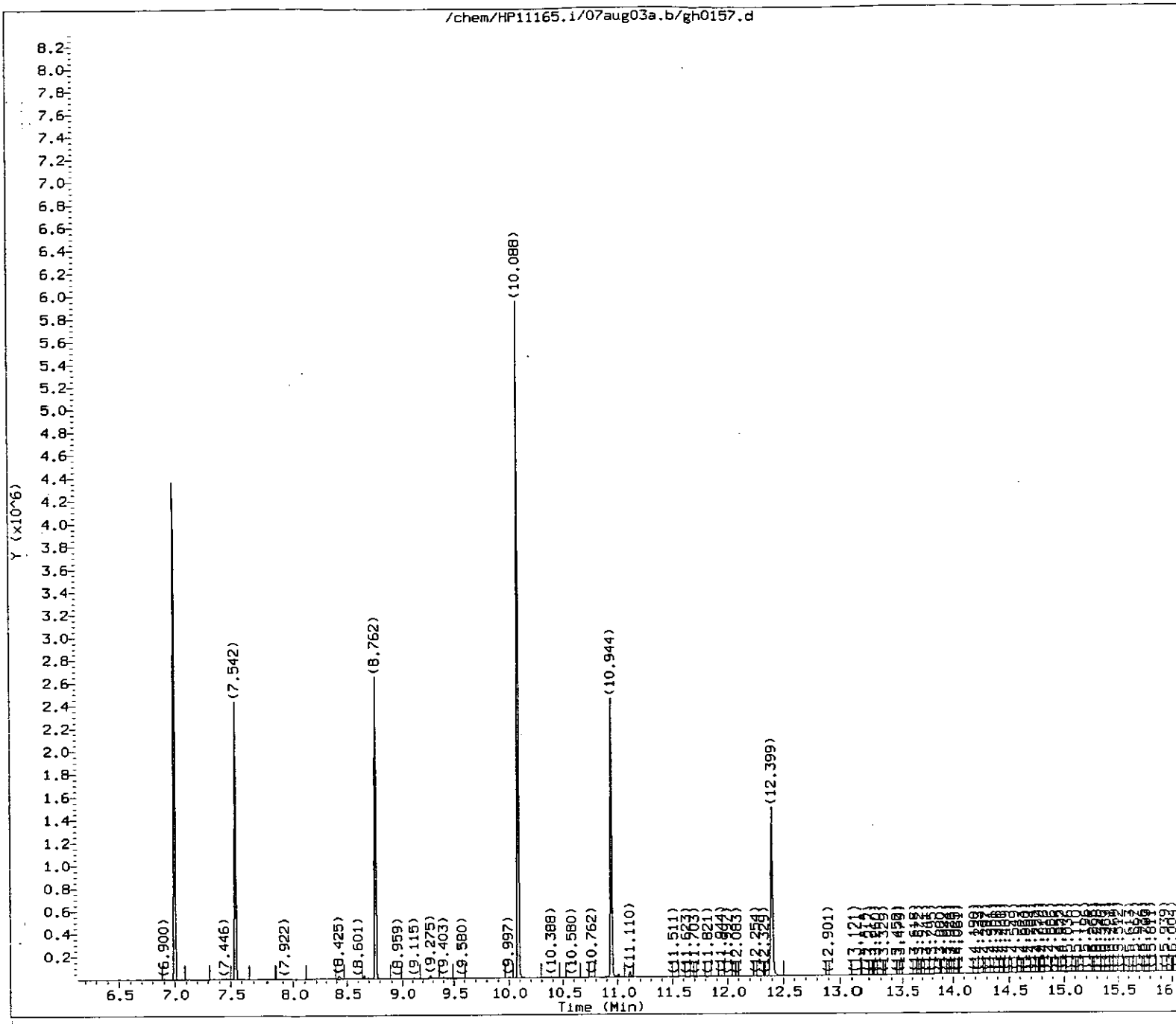
Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0157.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:30 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:42 mac00013

Sample Name: SBLKWD2157 Lab Sample ID: SBLKWD215

B722
mac (13) 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0157.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:30 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:42 mac00013

Sample Name: SBLKWD2157 Lab Sample ID: SBLKWD215

6723
mac (13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0157.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:30 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:42 mac00013

Sample Name: SBLKWD2157 Lab Sample ID: SBLKWD215

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.916	152	148813	40.000
52) Naphthalene-d8	(2)	6.066	136	621476	40.000
97) Acenaphthene-d10	(3)	7.542	164	410049	40.000
134) Phenanthrene-d10	(4)	8.762	188	802991	40.000
166) Chrysene-d12	(5)	10.944	240	829840	40.000
174) Perylene-d12	(6)	12.399	264	598385	40.000
38) Nitrobenzene-d5	(2)	5.435	82	571363	85.730
77) 2-Fluorobiphenyl	(3)	6.996	172	1173414	92.743
155) Terphenyl-d14	(5)	10.088	244	1654965	97.228

M = Compound was manually integrated. A = User selected an alternate h

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLC2203

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: SBLKLC220

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0292.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/09/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL	UG/KG	Q
91-20-3	Naphthalene			33	U
91-57-6	2-Methylnaphthalene			33	U
208-96-8	Acenaphthylene			33	U
83-32-9	Acenaphthene			33	U
86-73-7	Fluorene			33	U
85-01-8	Phenanthrene			33	U
120-12-7	Anthracene			33	U
206-44-0	Fluoranthene			33	U
129-00-0	Pyrene			33	U
56-55-3	Benzo(a)anthracene			33	U
218-01-9	Chrysene			33	U
205-99-2	Benzo(b)fluoranthene			33	U
207-08-9	Benzo(k)fluoranthene			33	U
50-32-8	Benzo(a)pyrene			33	U
193-39-5	Indeno(1,2,3-cd)pyrene			33	U
53-70-3	Dibenz(a,h)anthracene			33	U
191-24-2	Benzo(g,h,i)perylene			33	U

8725

SBLKLC2203 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles SBLKLC220

Data file: /chem/HP10623.i/07aug09a.b/ch0292.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 17:58 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 09-Aug-2007 21:45 fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH17**
Calibration date and time (Last Method Edit): 09-AUG-2007 20:23
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.715(0.000)	526	152.0	78670(-19)	40.00	
46) Naphthalene-d8	5.846(0.000)	710	136.0	335881(-25)	40.00	
82) Acenaphthene-d10	7.316(0.000)	949	164.0	198853(-24)	40.00	
120) Phenanthrene-d10	8.527(0.006)	1146	188.0	366892(-20)	40.00	
149) Chrysene-d12	10.685(0.000)	1497	240.0	303457(-22)	40.00	
161) Perylene-d12	11.823(0.000)	1682	264.0	234297(-27)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.219(0.001)	82	358839	109.595	110%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.775(0.000)	172	596522	95.317	95%		55 - 123
138) Terphenyl-d14	(5)	9.855(-0.001)	244	665275	106.508	107%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)				ND	ND			1.00
58) 2-Methylnaphthalene	(2)				ND	ND			1.00
80) Acenaphthylene	(3)				ND	ND			1.00
83) Acenaphthene	(3)				ND	ND			1.00
94) Fluorene	(3)				ND	ND			1.00
121) Phenanthrene	(4)				ND	ND			1.00
124) Anthracene	(4)				ND	ND			1.00
134) Fluoranthene	(4)				ND	ND			1.00
136) Pyrene	(5)			Below MDL,	Do not report				1.00
146) Benzo(a)anthracene	(5)			Below MDL,	Do not report				1.00
150) Chrysene	(5)			Below MDL,	Do not report				1.00
158) Benzo(b)fluoranthene	(6)				ND	ND			1.00
159) Benzo(k)fluoranthene	(6)				ND	ND			1.00
160) Benzo(a)pyrene	(6)			Below MDL,	Do not report				1.00
168) Indeno(1,2,3-cd)pyrene	(6)				ND	ND			1.00
169) Dibenz(a,h)anthracene	(6)				ND	ND			1.00
170) Benzo(g,h,i)perylene	(6)				ND	ND			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Data file: /chem/HP10623.i/07aug09a.b/ch0292.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 17:58 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 09-Aug-2007 21:45 fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAE17**
Calibration date and time (Last Method Edit): 09-AUG-2007 20:23
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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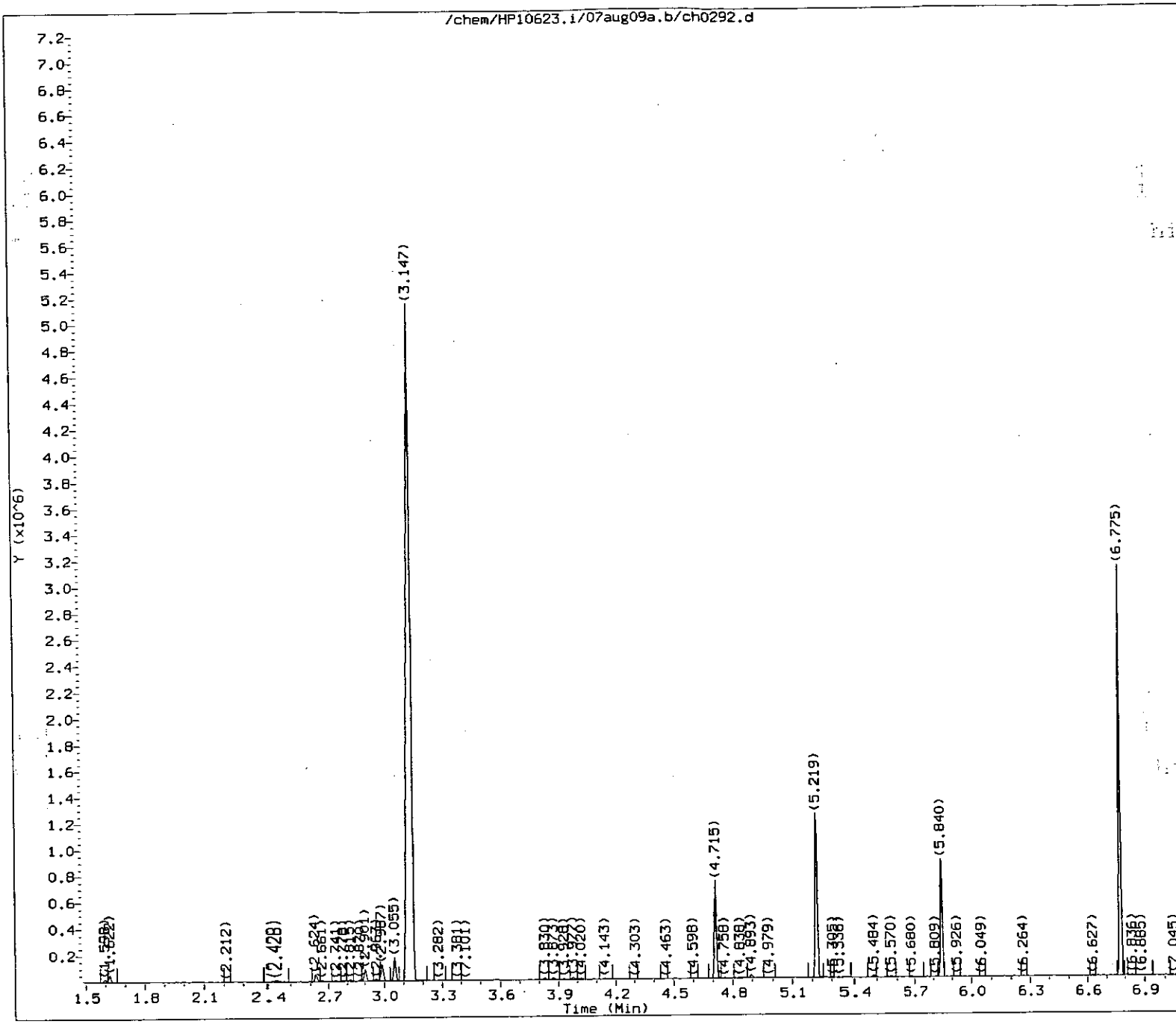
Total number of targets = 17

Comments: _____

Analyst: _____ Date: 8-9-07
Auditor: _____ Date: 8/13/07

8727



Quant Report

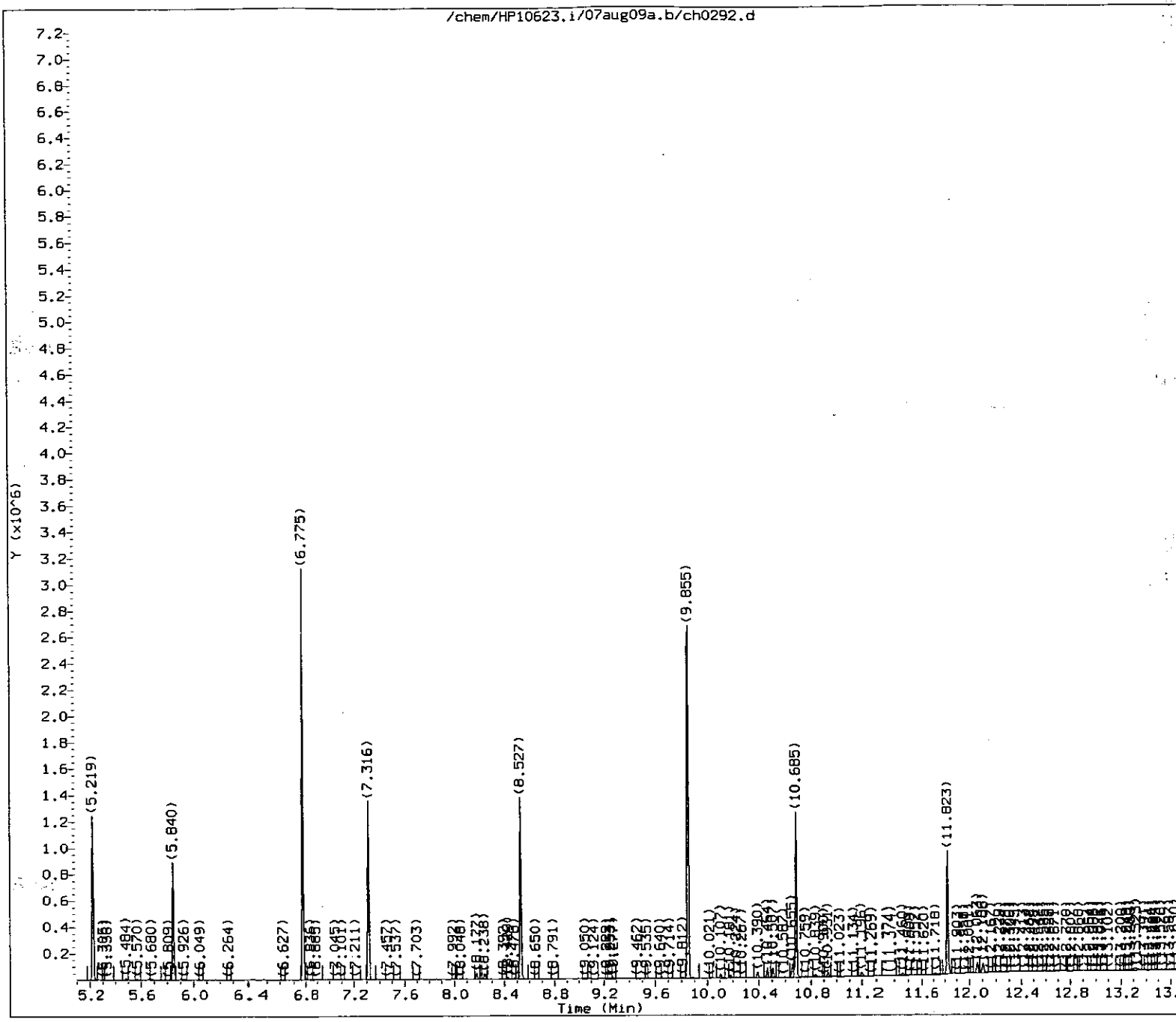
Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0292.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:58 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:45 fac01858

Sample Name: SBLKLC2203 Lab Sample ID: SBLKLC220

8728



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0292.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:58 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:45 fac01858

Sample Name: SBLKLC2203 Lab Sample ID: SBLKLC220

8729

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0292.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 17:58 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:45 fac01858

Sample Name: SBLKLC2203 Lab Sample ID: SBLKLC220

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.715	152	78670	40.0000
46) Naphthalene-d8	(2)	5.846	136	335881	40.0000
82) Acenaphthene-d10	(3)	7.316	164	198853	40.0000
120) Phenanthrene-d10	(4)	8.527	188	366892	40.0000
149) Chrysene-d12	(5)	10.685	240	303457	40.0000
161) Perylene-d12	(6)	11.823	264	234297	40.0000
35) Nitrobenzene-d5	(2)	5.219	82	358839	109.5951
66) 2-Fluorobiphenyl	(3)	6.775	172	596522	95.3171
138) Terphenyl-d14	(5)	9.855	244	665275	106.5081

M = Compound was manually integrated. A = User selected an alternate h

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKLE2263

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: SBLKLE226

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0473.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/15/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/15/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL	UG/KG	Q
91-20-3	Naphthalene			33	U
208-96-8	Acenaphthylene			33	U
83-32-9	Acenaphthene			33	U
86-73-7	Fluorene			33	U
85-01-8	Phenanthrene			33	U
120-12-7	Anthracene			33	U
206-44-0	Fluoranthene			33	U
129-00-0	Pyrene			33	U
56-55-3	Benzo(a)anthracene			33	U
218-01-9	Chrysene			33	U
205-99-2	Benzo(b)fluoranthene			33	U
207-08-9	Benzo(k)fluoranthene			33	U
50-32-8	Benzo(a)pyrene			33	U
193-39-5	Indeno(1,2,3-cd)pyrene			33	U
53-70-3	Dibenz(a,h)anthracene			33	U
191-24-2	Benzo(g,h,i)perylene			33	U

8731

SBLKLE2263 — Lancaster Labs Quantitation Report GC/MS Semi-Volatiles — SBLKLE226

Data file: /chem/HP10623.i/07aug15.b/ch0473.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 15-AUG-2007 21:11 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.578	(0.006)	520	152.0	104866	(-7)	40.00	
46) Naphthalene-d8	5.715	(0.000)	705	136.0	445892	(-11)	40.00	
82) Acenaphthene-d10	7.185	(0.000)	944	164.0	270502	(-13)	40.00	
120) Phenanthrene-d10	8.396	(0.000)	1141	188.0	504687	(-9)	40.00	
149) Chrysene-d12	10.542	(0.000)	1490	240.0	466350	(-6)	40.00	
161) Perylene-d12	11.667	(0.000)	1673	264.0	435295	(0)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.094	(0.000)	82	309627	77.074	77%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.650	(0.000)	172	718822	87.728	88%		55 - 123
138) Terphenyl-d14	(5)	9.718	(0.000)	244	920026	95.627	96%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)					ND	ND			1.00
80) Acenaphthylene	(3)					ND	ND			1.00
83) Acenaphthene	(3)					ND	ND			1.00
94) Fluorene	(3)					ND	ND			1.00
121) Phenanthrene	(4)				Below MDL,	Do not report				1.00
124) Anthracene	(4)				Below MDL,	Do not report				1.00
134) Fluoranthene	(4)					ND	ND			1.00
136) Pyrene	(5)				Below MDL,	Do not report				1.00
146) Benzo(a)anthracene	(5)				Below MDL,	Do not report				1.00
150) Chrysene	(5)				Below MDL,	Do not report				1.00
158) Benzo(b)fluoranthene	(6)					ND	ND			1.00
159) Benzo(k)fluoranthene	(6)					ND	ND			1.00
160) Benzo(a)pyrene	(6)				Below MDL,	Do not report				1.00
168) Indeno(1,2,3-cd)pyrene	(6)					ND	ND			1.00
169) Dibenz(a,h)anthracene	(6)					ND	ND			1.00
170) Benzo(g,h,i)perylene	(6)					ND	ND			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Data file: /chem/HP10623.i/07aug15.b/ch0473.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/cb0473.d**
Injection date and time: 15-AUG-2007 21:11 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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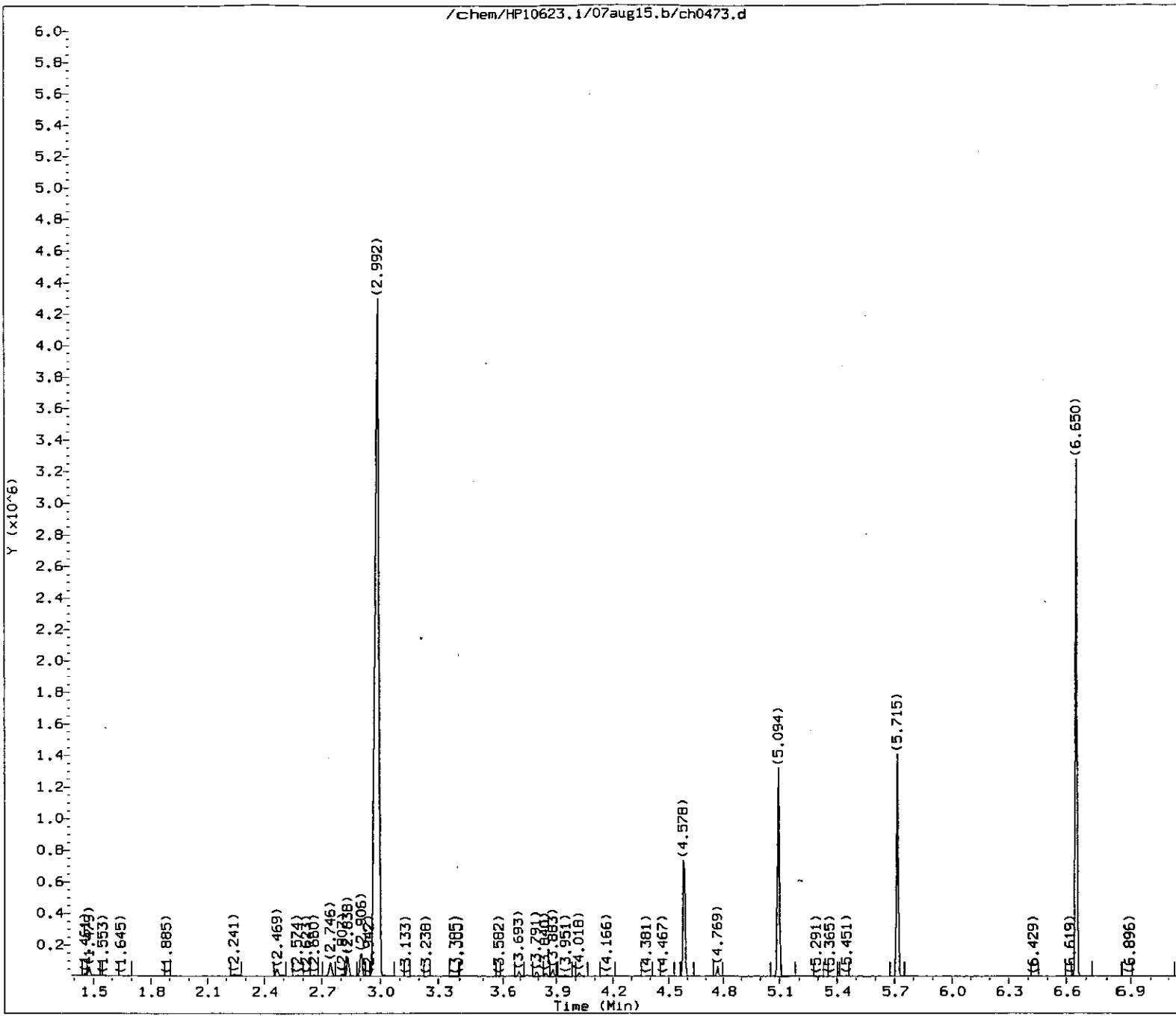
Total number of targets = 16

Comments:

Analyst: Data: 8/15/07
Auditor: Date: 8/16/07

0733



Quant Report

Target Revision 3.5

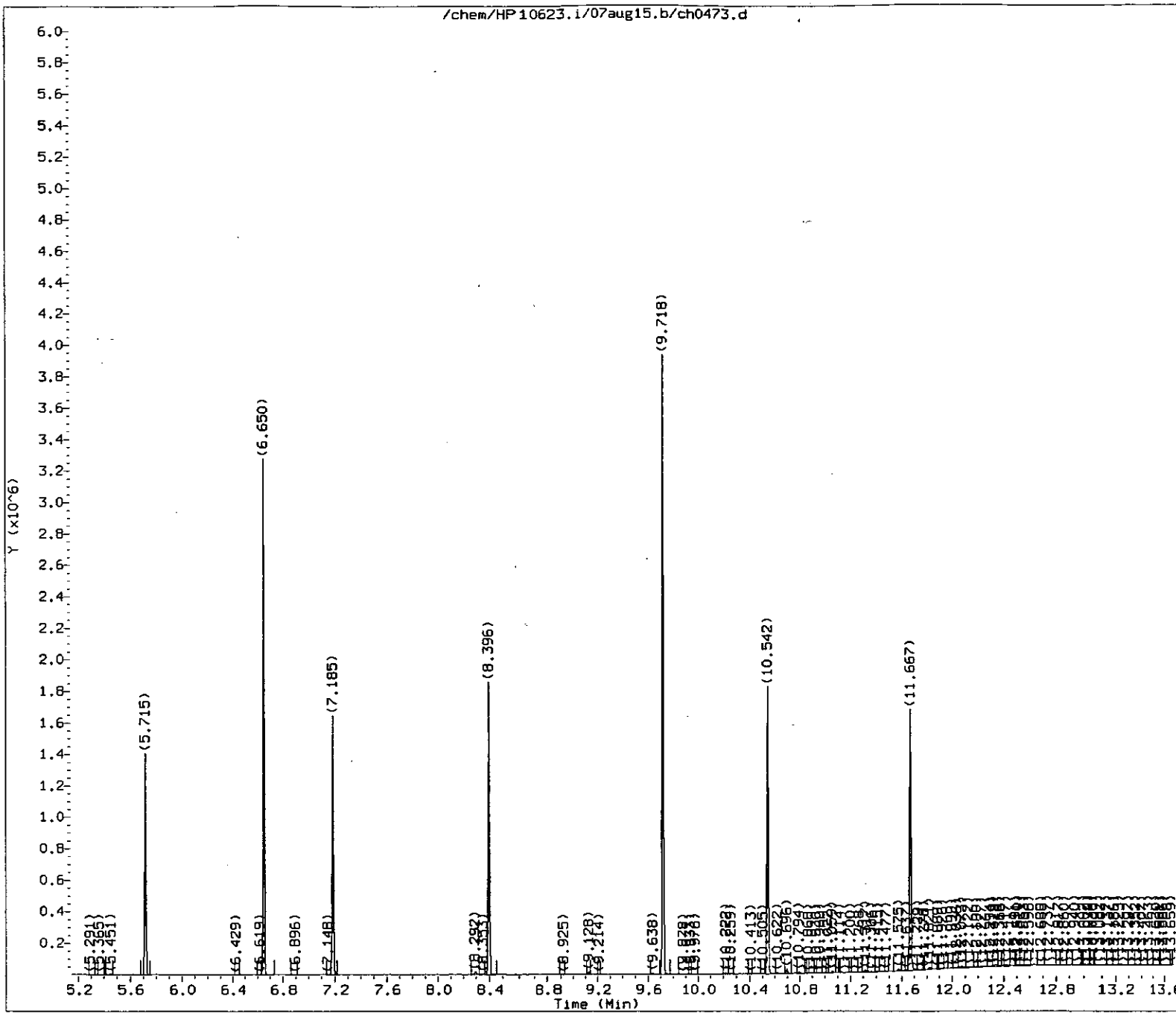
Data File: /chem/HP10623.i/07aug15.b/ch0473.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:11 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: SBLKLE2263 Lab Sample ID: SBLKLE226

8734

8/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0473.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:11 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: SBLKLE2263 Lab Sample ID: SBLKLE226

8735

lmh 8/15/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0473.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:11 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: SBLKLE2263 Lab Sample ID: SBLKLE226

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.578	152	104866	40.0000
46) Naphthalene-d8	(2)	5.715	136	445892	40.0000
82) Acenaphthene-d10	(3)	7.185	164	270502	40.0000
120) Phenanthrene-d10	(4)	8.396	188	504687	40.0000
149) Chrysene-d12	(5)	10.542	240	466350	40.0000
161) Perylene-d12	(6)	11.667	264	435295	40.0000
35) Nitrobenzene-d5	(2)	5.094	82	309627	77.0740
66) 2-Fluorobiphenyl	(3)	6.650	172	718822	87.7282
138) Terphenyl-d14	(5)	9.718	244	920026	95.6265

M = Compound was manually integrated. A = User selected an alternate hi

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP217MS

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118302

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0476.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 22 dec: Date Extracted: 08/15/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/16/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/KG	Q
91-20-3	Naphthalene			2500	
208-96-8	Acenaphthylene			2400	
83-32-9	Acenaphthene			2000	
86-73-7	Fluorene			2100	
85-01-8	Phenanthrene			2100	
120-12-7	Anthracene			2200	
206-44-0	Fluoranthene			2100	
129-00-0	Pyrene			2600	
56-55-3	Benzo(a)anthracene			2100	
218-01-9	Chrysene			2100	
205-99-2	Benzo(b)fluoranthene			2000	
207-08-9	Benzo(k)fluoranthene			1900	
50-32-8	Benzo(a)pyrene			2100	
193-39-5	Indeno(1,2,3-cd)pyrene			1800	
53-70-3	Dibenz(a,h)anthracene			1900	
191-24-2	Benzo(g,h,i)perylene			1800	

8737

TP217MS

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118302

Data file: /chem/HP10623.i/07aug15.b/ch0476.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 00:39 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 01:21 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area (+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.578(0.006)	520	152.0	112683(0)	40.00	
46) Naphthalene-d8	5.715(0.000)	705	136.0	491348(-2)	40.00	
82) Acenaphthene-d10	7.185(0.000)	944	164.0	304356(-2)	40.00	
120) Phenanthrene-d10	8.402(-0.006)	1142	188.0	481968(-13)	40.00	
149) Chrysene-d12	10.548(-0.006)	1491	240.0	384435(-22)	40.00	
161) Perylene-d12	11.667(0.000)	1673	264.0	352045(-19)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.094(0.000)	82	387395	87.511	88%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.650(0.000)	172	876164	95.037	95%		55 - 123
138) Terphenyl-d14	(5)	9.724(0.000)	244	834527	105.222	105%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)	5.734(0.000)	128	753076	57.382	1912.74			1.00
80) Acenaphthylene	(3)	7.068(0.000)	152	713315	56.779	1892.64			1.00
83) Acenaphthene	(3)	7.216(0.000)	153	401637	46.923	1564.11			1.00
94) Fluorene	(3)	7.640(0.000)	166	499647	49.709	1656.95			1.00
121) Phenanthrene	(4)	8.421(0.000)	178	636188	49.836	1661.20			1.00
124) Anthracene	(4)	8.464(0.000)	178	674536	50.807	1693.58			1.00
134) Fluoranthene	(4)	9.405(-0.002)	202	715333	49.992	1666.41			1.00
136) Pyrene	(5)	9.571(-0.001)	202	719959	59.986	1999.53			1.00
146) Benzo(a)anthracene	(5)	10.542(0.000)	228	539516	49.530	1651.00			1.00
150) Chrysene	(5)	10.567(0.001)	228	543554	49.246	1641.54			1.00
158) Benzo(b)fluoranthene	(6)	11.384(0.000)	252	560361	45.679	1522.62			1.00
159) Benzo(k)fluoranthene	(6)	11.409(-0.001)	252	562704	45.354	1511.79			1.00
160) Benzo(a)pyrene	(6)	11.630(-0.001)	252	557781	49.006	1633.54			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.448(0.000)	276	603564	42.076	1402.54			1.00
169) Dibenz(a,h)anthracene	(6)	12.467(0.000)	278	516369	45.278	1509.27			1.00
170) Benzo(g,h,i)perylene	(6)	12.657(0.000)	276	513943	42.171	1405.69			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

8738

Data file: /chem/HP10623.i/07aug15.b/ch0476.d Blank Data file reference: **/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 00:39 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 01:21 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit) : 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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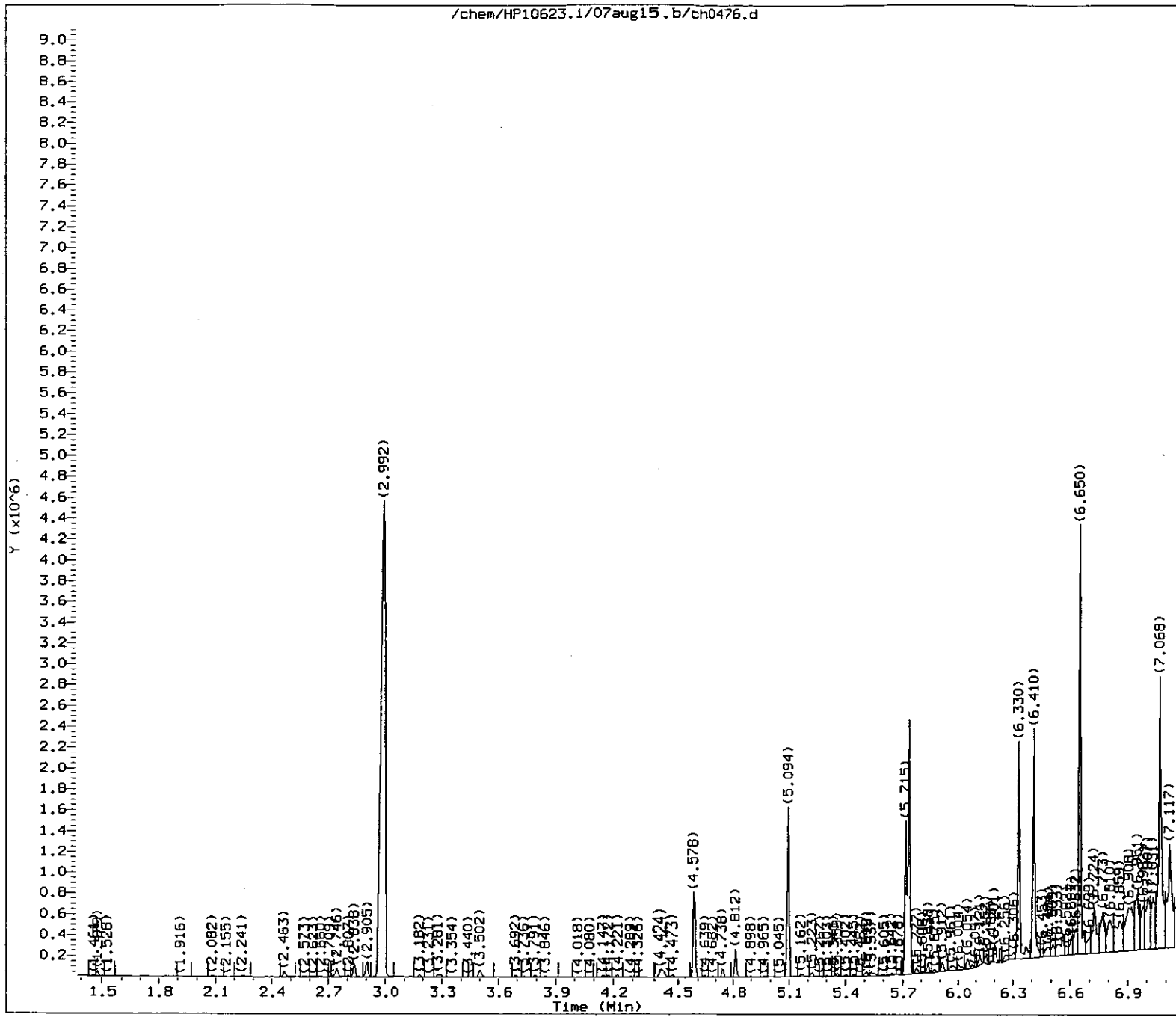
Total number of targets = 16

Comments:

Analyst: Date: 8/16/07
Auditor: Date: 8/16/07

8739



Quant Report

Target Revision 3.5

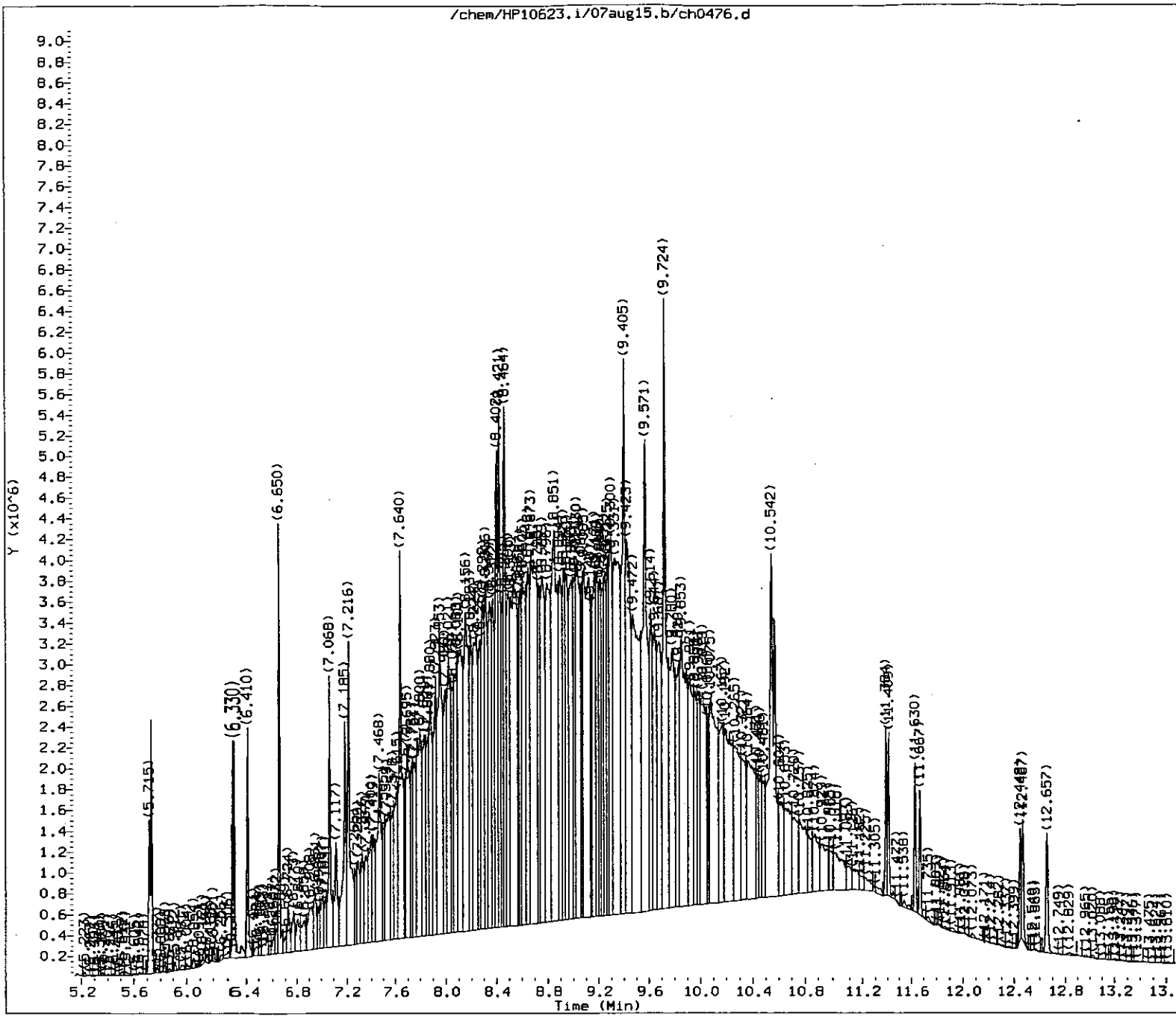
Data File: /chem/HP10623.i/07aug15.b/ch0476.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:39 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:21 lmh00956

Sample Name: TP217MS Lab Sample ID: 5118302

8740

lmh956 08/16/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0476.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:39 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:21 lmh00956

Sample Name: TP217MS Lab Sample ID: 5118302

8741

lmh 08/16/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0476.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 00:39 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:21 lmh00956

Sample Name: TP217MS Lab Sample ID: 5118302

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.578	152	112683	40.0000
46) Naphthalene-d8	(2)	5.715	136	491348	40.0000
47) Naphthalene	(2)	5.734	128	753076	57.3822
80) Acenaphthylene	(3)	7.068	152	713315	56.7791
82) Acenaphthene-d10	(3)	7.185	164	304356	40.0000
83) Acenaphthene	(3)	7.216	153	401637	46.9234
94) Fluorene	(3)	7.640	166	499647	49.7086
120) Phenanthrene-d10	(4)	8.402	188	481968	40.0000
121) Phenanthrene	(4)	8.421	178	636188	49.8360
124) Anthracene	(4)	8.464	178	674536	50.8074
134) Fluoranthene	(4)	9.405	202	715333	49.9923
136) Pyrene	(5)	9.571	202	719959	59.9858
146) Benzo(a)anthracene	(5)	10.542	228	539516	49.5300
149) Chrysene-d12	(5)	10.548	240	384435	40.0000
150) Chrysene	(5)	10.567	228	543554	49.2461
158) Benzo(b)fluoranthene	(6)	11.384	252	560361	45.6786
159) Benzo(k)fluoranthene	(6)	11.409	252	562704	45.3538
160) Benzo(a)pyrene	(6)	11.630	252	557781	49.0062
161) Perylene-d12	(6)	11.667	264	352045	40.0000
168) Indeno(1,2,3-cd)pyrene	(6)	12.448	276	603564	42.0763
169) Dibenz(a,h)anthracene	(6)	12.467	278	516369	45.2780
170) Benzo(g,h,i)perylene	(6)	12.657	276	513943	42.1708
35) Nitrobenzene-d5	(2)	5.094	82	387395	87.5112
66) 2-Fluorobiphenyl	(3)	6.650	172	876164	95.0369
138) Terphenyl-d14	(5)	9.724	244	834527	105.2223

M = Compound was manually integrated. A = User selected an alternate hi

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP217MSD

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 5118303

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0477.d

Level: (low/med) LOW Date Received: 08/02/07

% Moisture: not dec: 22 dec: Date Extracted: 08/15/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/16/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) LOQ UG/KG	Q
91-20-3	Naphthalene	2700	
208-96-8	Acenaphthylene	2500	
83-32-9	Acenaphthene	2100	
86-73-7	Fluorene	2200	
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	2300	
206-44-0	Fluoranthene	2300	
129-00-0	Pyrene	2700	
56-55-3	Benzo(a)anthracene	2200	
218-01-9	Chrysene	2100	
205-99-2	Benzo(b)fluoranthene	2000	
207-08-9	Benzo(k)fluoranthene	2100	
50-32-8	Benzo(a)pyrene	2200	
193-39-5	Indeno(1,2,3-cd)pyrene	1900	
53-70-3	Dibenz(a,h)anthracene	2000	
191-24-2	Benzo(g,h,i)perylene	1900	

8743

TP217MSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118303

Data file: /chem/HP10623.i/07aug15.b/ch0477.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 01:00 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.584	(0.000)	521	152.0	122339	(8)	40.00	
46) Naphthalene-d8	5.715	(0.000)	705	136.0	538193	(7)	40.00	
82) Acenaphthene-d10	7.191	(-0.006)	945	164.0	319271	(3)	40.00	
120) Phenanthrene-d10	8.402	(-0.006)	1142	188.0	481814	(-13)	40.00	
149) Chrysene-d12	10.554	(-0.012)	1492	240.0	387775	(-22)	40.00	
161) Perylene-d12	11.673	(-0.006)	1674	264.0	350417	(-19)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.094	(0.000)	82	428151	88.299	88%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.650	(0.001)	172	959913	99.257	99%		55 - 123
138) Terphenyl-d14	(5)	9.724	(0.000)	244	869888	108.736	109%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/u
47) Naphthalene	(2)	5.734	(0.000)	128	899224	62.554	2085.14			1.00
80) Acenaphthylene	(3)	7.068	(0.001)	152	768173	58.289	1942.98			1.00
83) Acenaphthene	(3)	7.216	(0.001)	153	431994	48.112	1603.74			1.00
94) Fluorene	(3)	7.640	(0.001)	166	538557	51.077	1702.55			1.00
121) Phenanthrene	(4)	8.421	(0.000)	178	677651	53.101	1770.03			1.00
124) Anthracene	(4)	8.464	(0.000)	178	709520	53.460	1781.98			1.00
134) Fluoranthene	(4)	9.411	(-0.003)	202	770237	53.847	1794.89			1.00
136) Pyrene	(5)	9.571	(0.000)	202	761915	62.935	2097.83			1.00
146) Benzo(a)anthracene	(5)	10.542	(0.001)	228	565984	51.512	1717.08			1.00
150) Chrysene	(5)	10.573	(0.001)	228	543650	48.831	1627.69			1.00
158) Benzo(b)fluoranthene	(6)	11.391	(0.000)	252	574446	47.044	1568.15			1.00
159) Benzo(k)fluoranthene	(6)	11.409	(0.000)	252	607168	49.165	1638.83			1.00
160) Benzo(a)pyrene	(6)	11.630	(0.000)	252	579559	51.156	1705.20			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.448	(0.001)	276	624613	43.746	1458.20			1.00
169) Dibenz(a,h)anthracene	(6)	12.467	(0.001)	278	542241	47.768	1592.25			1.00
170) Benzo(g,h,i)perylene	(6)	12.657	(0.001)	276	531738	43.834	1461.12			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

TP217MSD

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

5118303

Data file: /chem/HP10623.i/07aug15.b/ch0477.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 16-AUG-2007 01:00 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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Total number of targets = 16

Comments:

Analyst: Date: 8/16/07
Auditor: Date: 8/16/07

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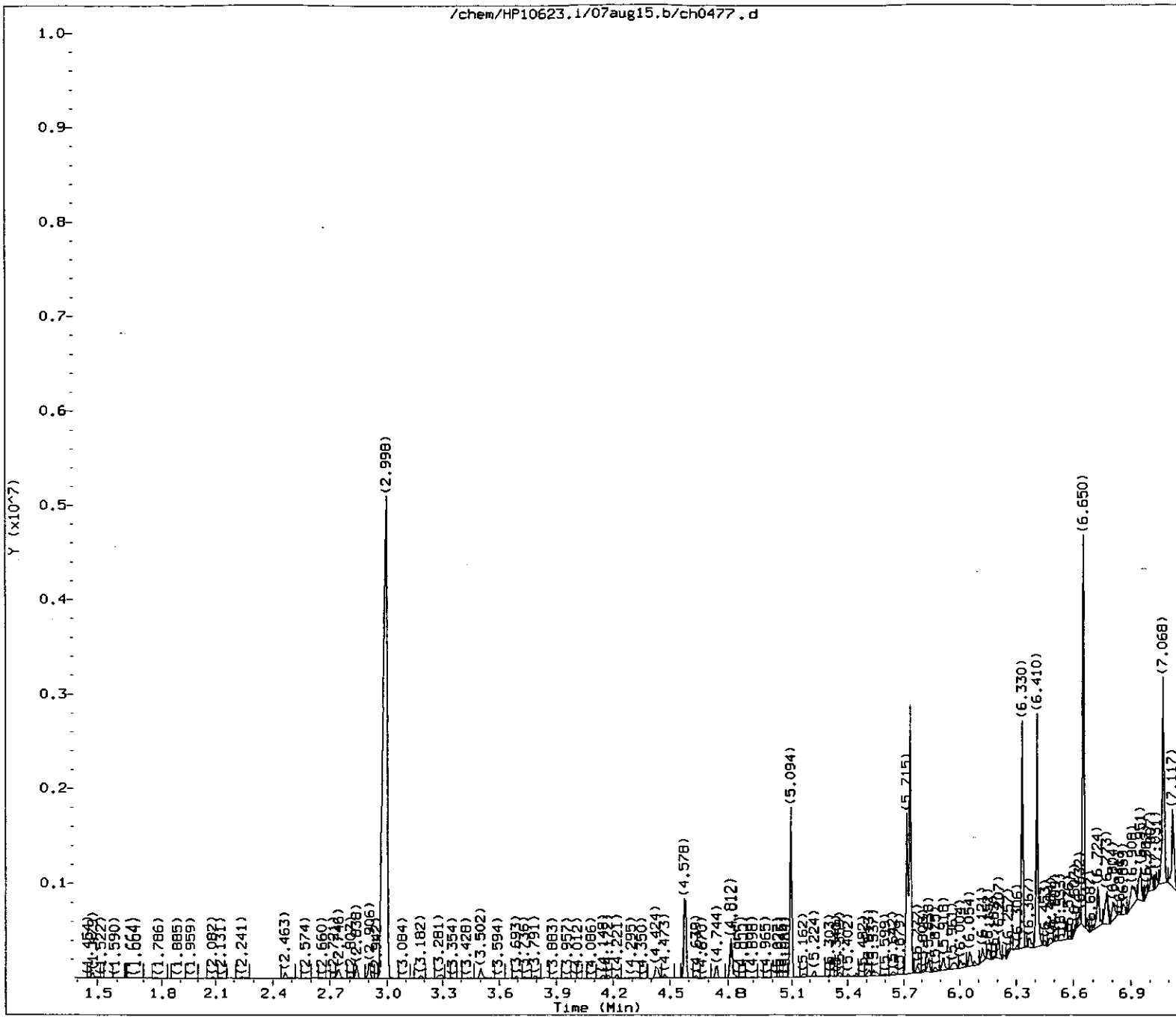


Quant Report

Target Revision 3.5

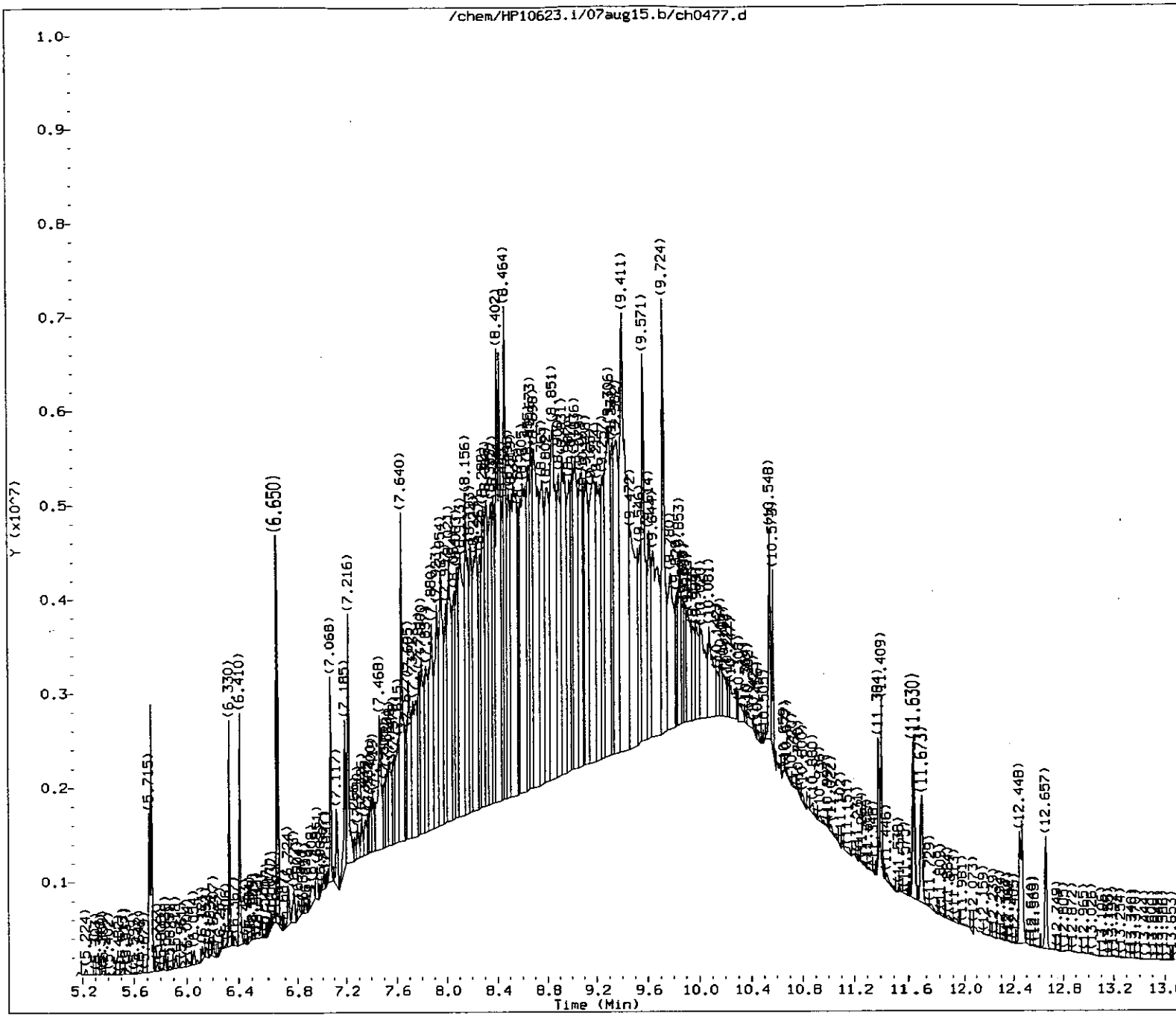
Data File: /chem/HP10623.i/07aug15.b/ch0477.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 01:00 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Sample Name: TP217MSD Lab Sample ID: 5118303

8246

lmh196880116107



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0477.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 01:00 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Sample Name: TP217MSD Lab Sample ID: 5118303

8747

lmh 8/16/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0477.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 01:00 Analyst ID: lmh00956

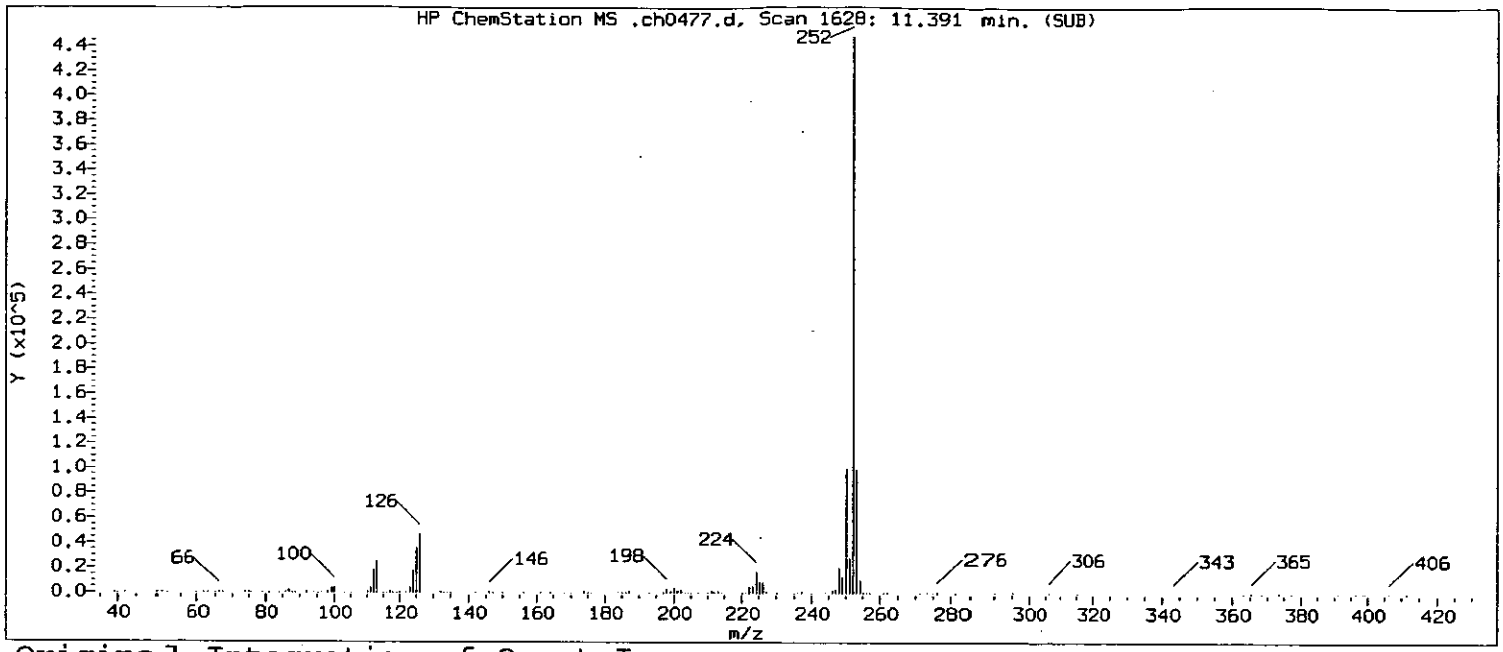
Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Sample Name: TP217MSD Lab Sample ID: 5118303

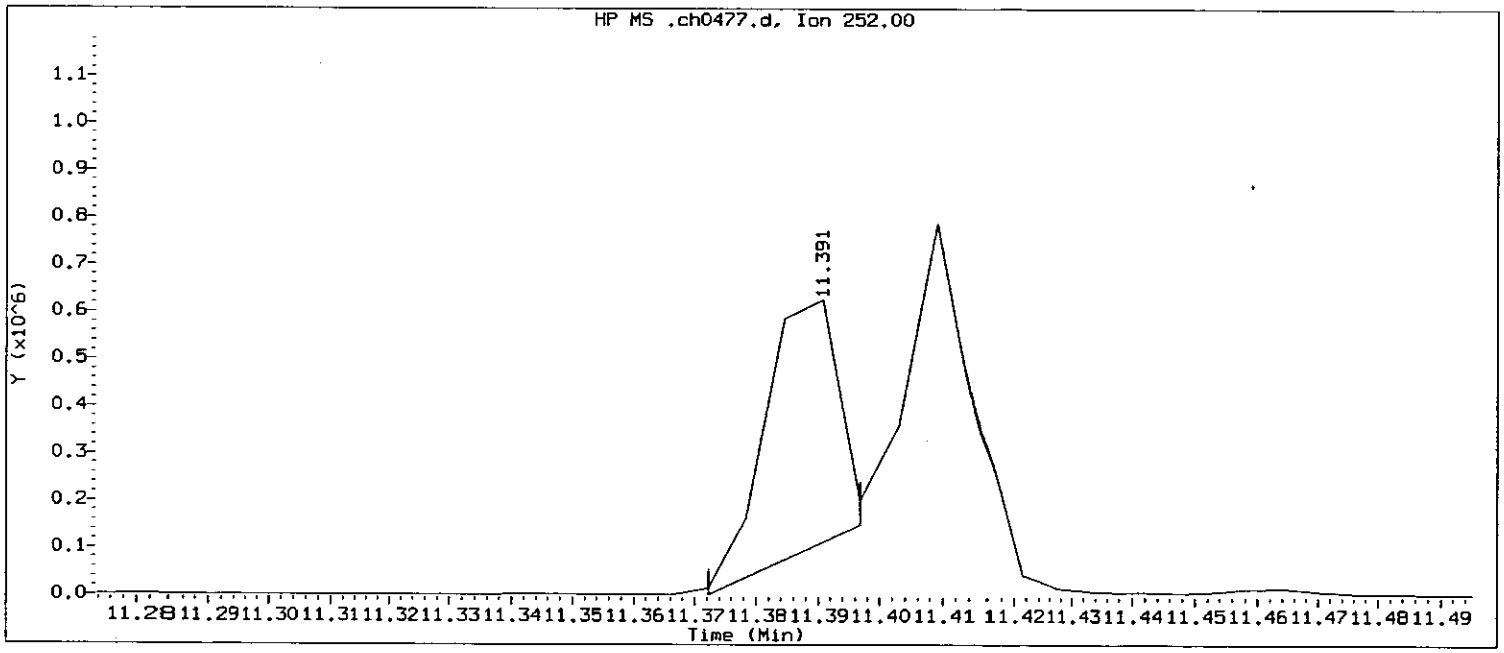
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.584	152	122339	40.0000
46)	Naphthalene-d8	(2)	5.715	136	538193	40.0000
47)	Naphthalene	(2)	5.734	128	899224	62.5543
80)	Acenaphthylene	(3)	7.068	152	768173	58.2893
82)	Acenaphthene-d10	(3)	7.191	164	319271	40.0000
83)	Acenaphthene	(3)	7.216	153	431994	48.1122
94)	Fluorene	(3)	7.640	166	538557	51.0766
120)	Phenanthrene-d10	(4)	8.402	188	481814	40.0000
121)	Phenanthrene	(4)	8.421	178	677651	53.1009
124)	Anthracene	(4)	8.464	178	709520	53.4595
134)	Fluoranthene	(4)	9.411	202	770237	53.8466
136)	Pyrene	(5)	9.571	202	761915	62.9348
146)	Benzo(a)anthracene	(5)	10.542	228	565984	51.5123
149)	Chrysene-d12	(5)	10.554	240	387775	40.0000
150)	Chrysene	(5)	10.573	228	543650	48.8306
158)	Benzo(b)fluoranthene	(6)	11.391	252	574446M	47.0444
159)	Benzo(k)fluoranthene	(6)	11.409	252	607168	49.1649
160)	Benzo(a)pyrene	(6)	11.630	252	579559	51.1561
161)	Perylene-d12	(6)	11.673	264	350417	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.448	276	624613	43.7460
169)	Dibenz(a,h)anthracene	(6)	12.467	278	542241	47.7675
170)	Benzo(g,h,i)perylene	(6)	12.657	276	531738	43.8337
35)	Nitrobenzene-d5	(2)	5.094	82	428151	88.2994
66)	2-Fluorobiphenyl	(3)	6.650	172	959913	99.2570
138)	Terphenyl-d14	(5)	9.724	244	869888	108.7361

M = Compound was manually integrated. A = User selected an alternate hi

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0477.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 01:00 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: all1
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:18 Automation

Sample Name: TP217MSD Lab Sample ID: 5118303

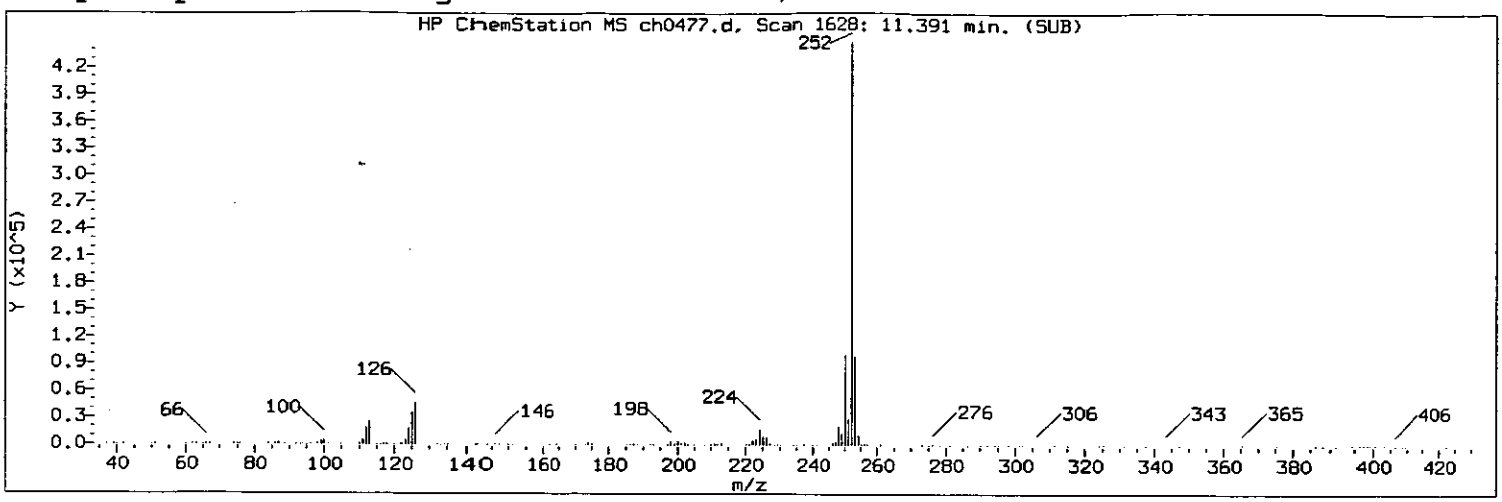
Compound Number	:	158
Compound Name	:	Benzo(b)fluoranthene
Scan Number	:	1628
Retention Time (minutes)	:	11.391
Quant Ion	:	252
Area	:	435923
Concentration (ng/ul)	:	35.7000
Integration start scan	:	1624
Y at integration start	:	1736

Integration stop scan: 1628
Y at integration end: 149175

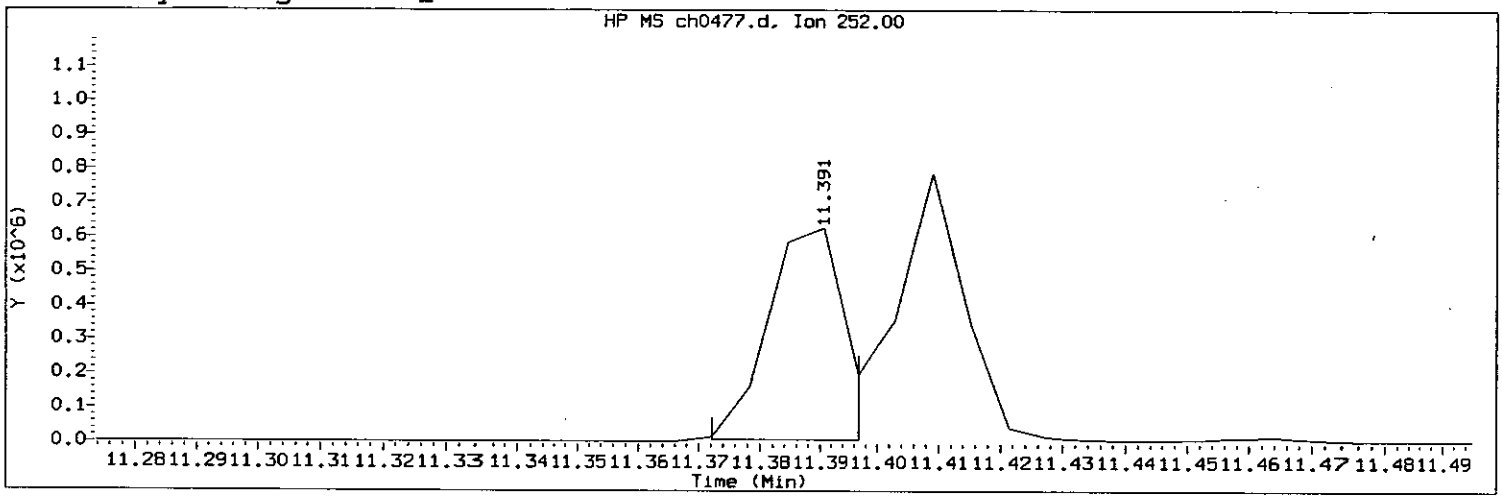
lmh 08116107 8749

Original Integration Report for data file /chem/HP10623.i/07aug15.b/ch0477.d, generated on 08/16/2007 at 01:23

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP10623.i/07aug15.b/ch0477.d Instrument ID: HP10623.i
Injection date and time: 16-AUG-2007 01:00 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 16-Aug-2007 01:23 lmh00956

Sample Name: TP217MSD Lab Sample ID: 5118303

Compound Number	: 158	
Compound Name	: Benzo(b)fluoranthene	
Scan Number	: 1628	
Retention Time (minutes)	: 11.391	
Quant Ion	: 252	
Area (flag)	: 574446	M
Concentration (ng/ul)	: 47.0444	
Integration start scan	: 1624	Integration stop scan: 1628
Y at integration start	: 6786	Y at integration end: 6786

Reason for manual integration (circle one): missed peak improper integratio

Analyst responsible for change: lmh 08/16/07

GC/MS audit/management approval: 8/16/07

Manual Integration Report for data file /chem/HP10623.i/07aug15.b/ch0477.d, generated on 08/16/2007 at 01:23

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

215WDLCS7

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 215WDLCS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: gh0158.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/03/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/03/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			48	
208-96-8	Acenaphthylene			48	
83-32-9	Acenaphthene			49	
86-73-7	Fluorene			50	
85-01-8	Phenanthrene			49	
120-12-7	Anthracene			48	
206-44-0	Fluoranthene			49	
129-00-0	Pyrene			50	
56-55-3	Benzo(a)anthracene			47	
218-01-9	Chrysene			50	
205-99-2	Benzo(b)fluoranthene			52	
207-08-9	Benzo(k)fluoranthene			58	
50-32-8	Benzo(a)pyrene			57	
193-39-5	Indeno(1,2,3-cd)pyrene			54	
53-70-3	Dibenz(a,h)anthracene			59	
191-24-2	Benzo(g,h,i)perylene			58	

8751

215WDLCS7

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

215WDLCS

Data file: /chem/HP11165.i/07aug03a.b/gh0158.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 22:54 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.916(0.000)	585	152.0	138005(-17)	40.00	
52) Naphthalene-d8	6.066(0.000)	800	136.0	590764(-21)	40.00	
97) Acenaphthene-d10	7.542(0.005)	1076	164.0	398956(-18)	40.00	
134) Phenanthrene-d10	8.761(0.005)	1304	188.0	768063(-15)	40.00	
166) Chrysene-d12	10.949(0.005)	1713	240.0	744195(-8)	40.00	
174) Perylene-d12	12.399(0.011)	1984	264.0	537236(-25)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.435(0.002)	82	569822	89.943	90%		51 - 123
77) 2-Fluorobiphenyl	(3)	7.002(-0.001)	172	1181170	95.951	96%		63 - 118
155) Terphenyl-d14	(5)	10.088(0.000)	244	1559632	102.173	102%		52 - 151

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
53) Naphthalene	(2)	6.082(0.001)	128	792422	47.768	47.77			1.00
94) Acenaphthylene	(3)	7.424(0.001)	152	874048	48.251	48.25			1.00
98) Acenaphthene	(3)	7.569(0.001)	153	565670	48.867	48.87			1.00
110) Fluorene	(3)	7.997(0.000)	166	662066	50.195	50.19			1.00
136) Phenanthrene	(4)	8.783(0.000)	178	1030218	48.552	48.55			1.00
137) Anthracene	(4)	8.826(0.000)	178	1042332	48.080	48.08			1.00
146) Fluoranthene	(4)	9.756(-0.001)	202	1151337	49.032	49.03			1.00
153) Pyrene	(5)	9.938(0.000)	202	1177239	50.066	50.07			1.00
165) Benzo(a)anthracene	(5)	10.938(0.000)	228	1038468	47.063	47.06			1.00
167) Chrysene	(5)	10.970(0.000)	228	1049066	49.797	49.80			1.00
171) Benzo(b)fluoranthene	(6)	11.987(0.001)	252	1020031	52.343	52.34			1.00
172) Benzo(k)fluoranthene	(6)	12.019(0.000)	252	1139713	57.621	57.62			1.00
173) Benzo(a)pyrene	(6)	12.340(0.000)	252	1013474	57.275	57.28			1.00
176) Indeno(1,2,3-cd)pyrene	(6)	13.629(0.001)	276	1064649	54.493	54.49			1.00
177) Dibenz(a,h)anthracene	(6)	13.666(0.000)	278	945528	58.743	58.74			1.00
178) Benzo(g,h,i)perylene	(6)	13.934(0.001)	276	948060	57.658	57.66			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

0752

215WDLCS7 Lancaster Labs 215WDLCS
Quantitation Report GC/MS Semi-Volatiles

Data file: /chem/HP11165.i/07aug03a.b/gh0158.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 22:54 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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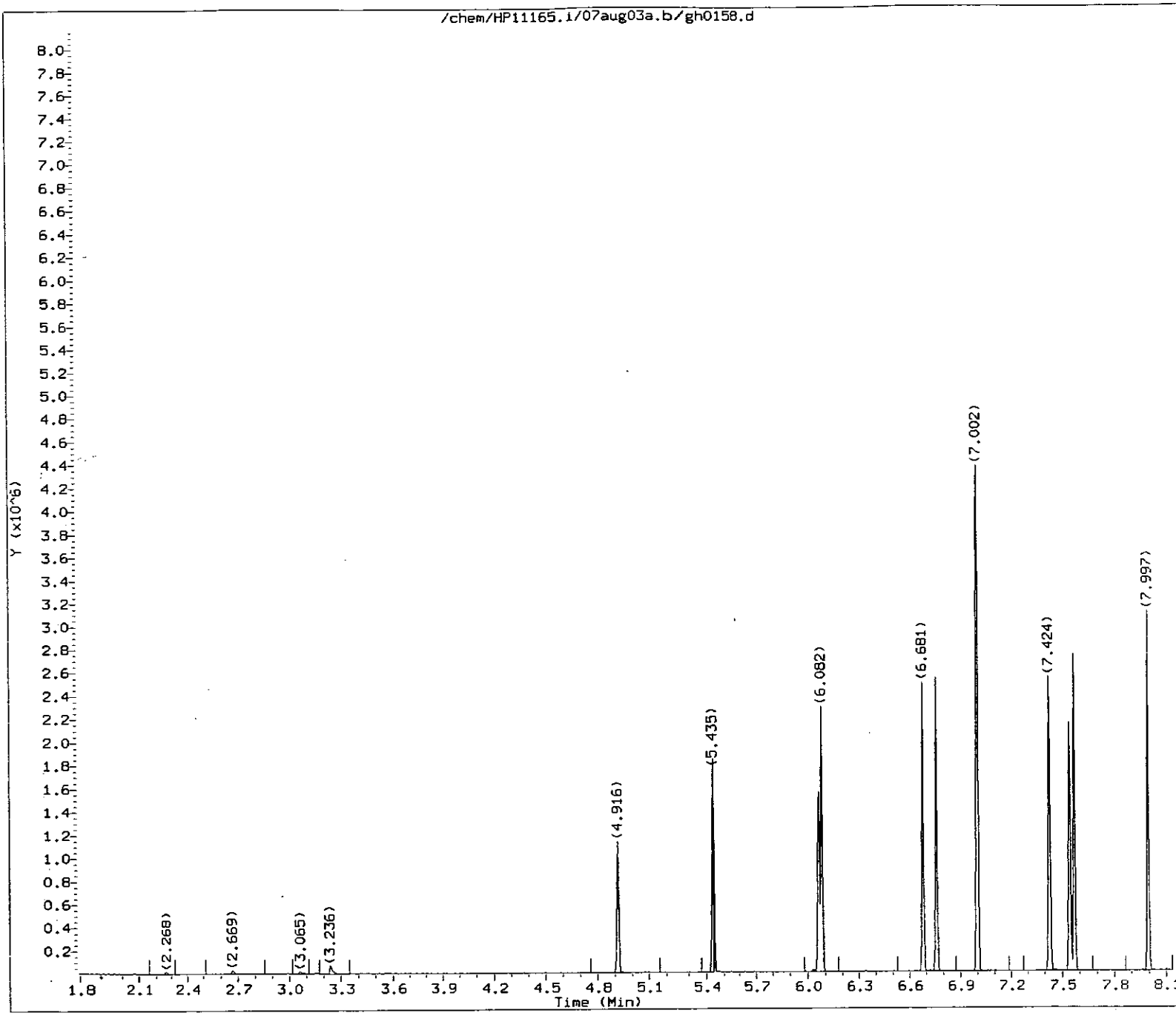
Total number of targets = 16

Comments: _____

Analyst: _____ Date: 8/5/07
Auditor: _____ Date: 8/6/07



Quant Report

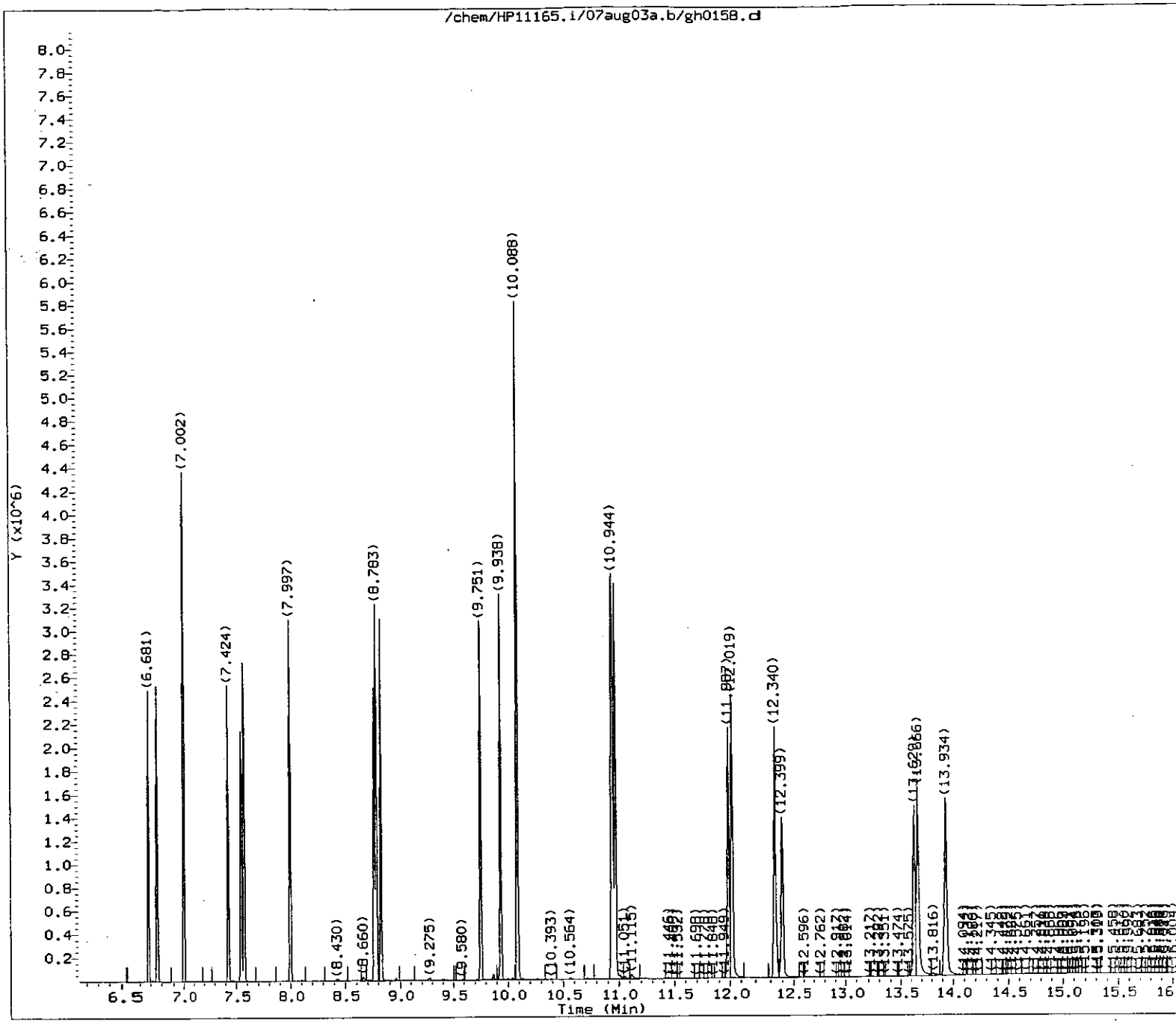
Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

8754
mac (13) 8/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

8255
mac (13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

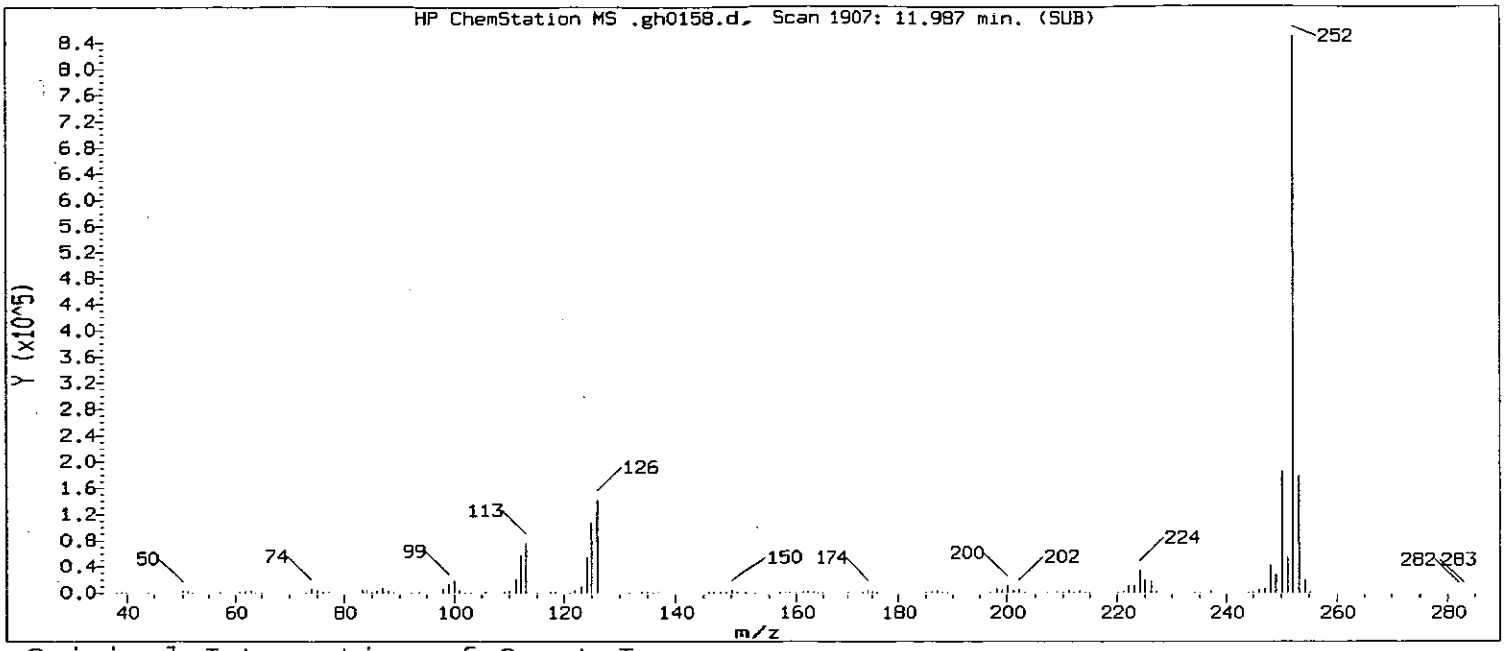
Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

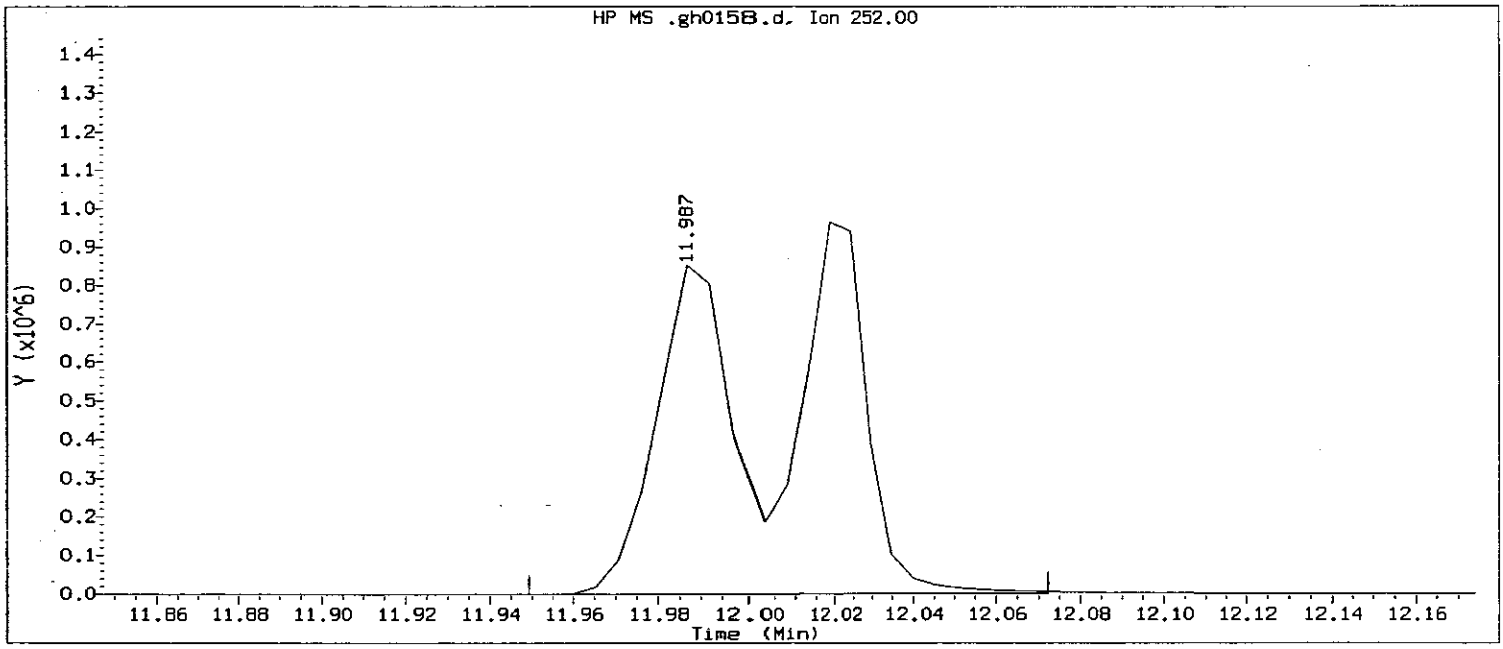
	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.916	152	138005	40.000
52)	Naphthalene-d8	(2)	6.066	136	590764	40.000
53)	Naphthalene	(2)	6.082	128	792422	47.768
94)	Acenaphthylene	(3)	7.424	152	874048	48.251
97)	Acenaphthene-d10	(3)	7.542	164	398956	40.000
98)	Acenaphthene	(3)	7.569	153	565670	48.867
110)	Fluorene	(3)	7.997	166	662066	50.195
134)	Phenanthrene-d10	(4)	8.761	188	768063	40.000
136)	Phenanthrene	(4)	8.783	178	1030218	48.552
137)	Anthracene	(4)	8.826	178	1042332	48.080
146)	Fluoranthene	(4)	9.756	202	1151337	49.032
153)	Pyrene	(5)	9.938	202	1177239	50.066
165)	Benzo(a)anthracene	(5)	10.938	228	1038468	47.063
166)	Chrysene-d12	(5)	10.949	240	744195	40.000
167)	Chrysene	(5)	10.970	228	1049066	49.797
171)	Benzo(b)fluoranthene	(6)	11.987	252	1020031M	52.343
172)	Benzo(k)fluoranthene	(6)	12.019	252	1139713	57.621
173)	Benzo(a)pyrene	(6)	12.340	252	1013474	57.275
174)	Perylene-d12	(6)	12.399	264	537236	40.000
176)	Indeno(1,2,3-cd)pyrene	(6)	13.629	276	1064649M	54.493
177)	Dibenz(a,h)anthracene	(6)	13.666	278	945528	58.743
178)	Benzo(g,h,i)perylene	(6)	13.934	276	948060	57.658
38)	Nitrobenzene-d5	(2)	5.435	82	569822	89.943
77)	2-Fluorobiphenyl	(3)	7.002	172	1181170	95.951
155)	Terphenyl-d14	(5)	10.088	244	1559632	102.173

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 03-Aug-2007 23:11 Automation

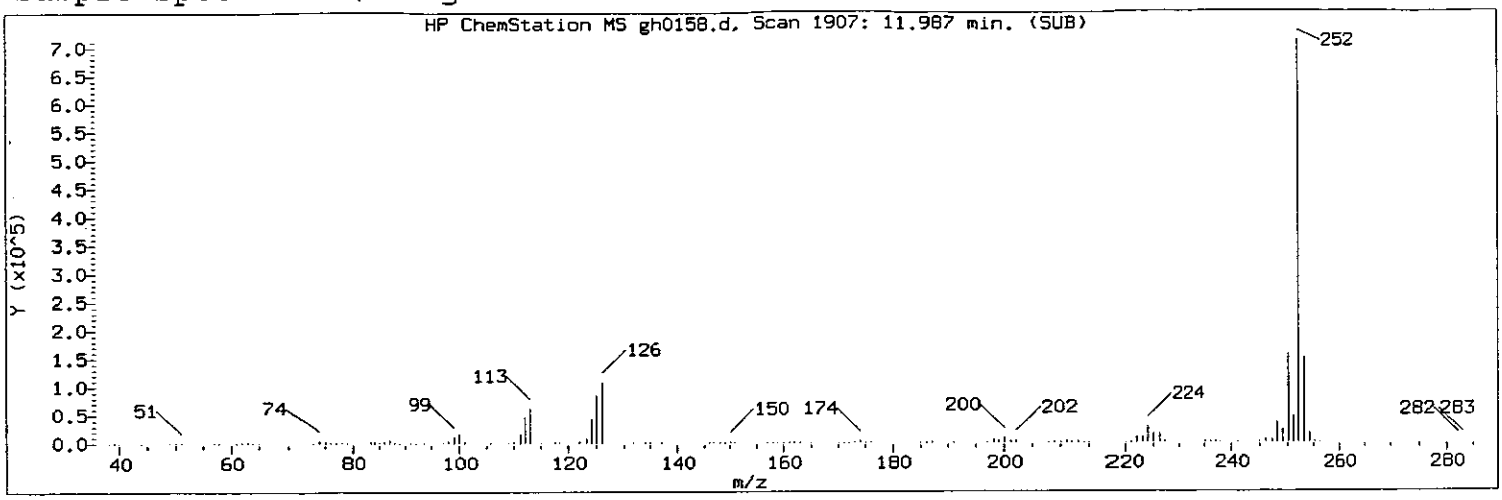
Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

Compound Number : 171
Compound Name : Benzo(b)fluoranthene
Scan Number : 1907
Retention Time (minutes): 11.987
Quant Ion : 252
Area : 2111456
Concentration (ng/ul) : 108.3486
Integration start scan : 1899 Integration stop scan: 1922
Y at integration start : 0 Y at integration end: 1600

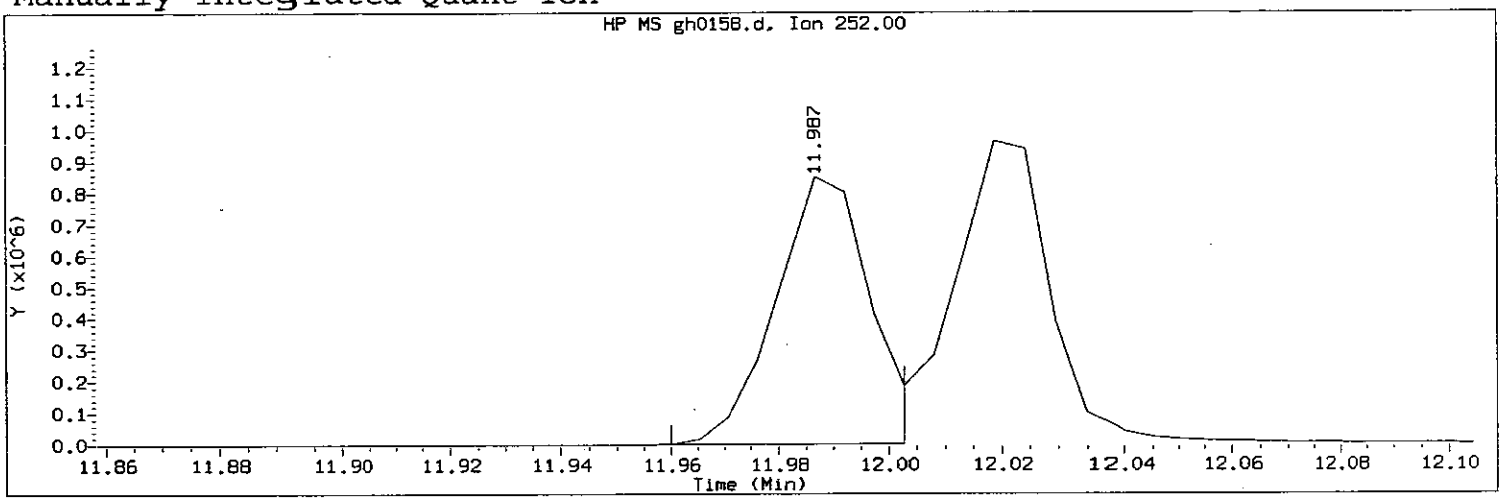
mc (3) 8/5/07

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0158.d, generated on 08/06/2007 at 00:46

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

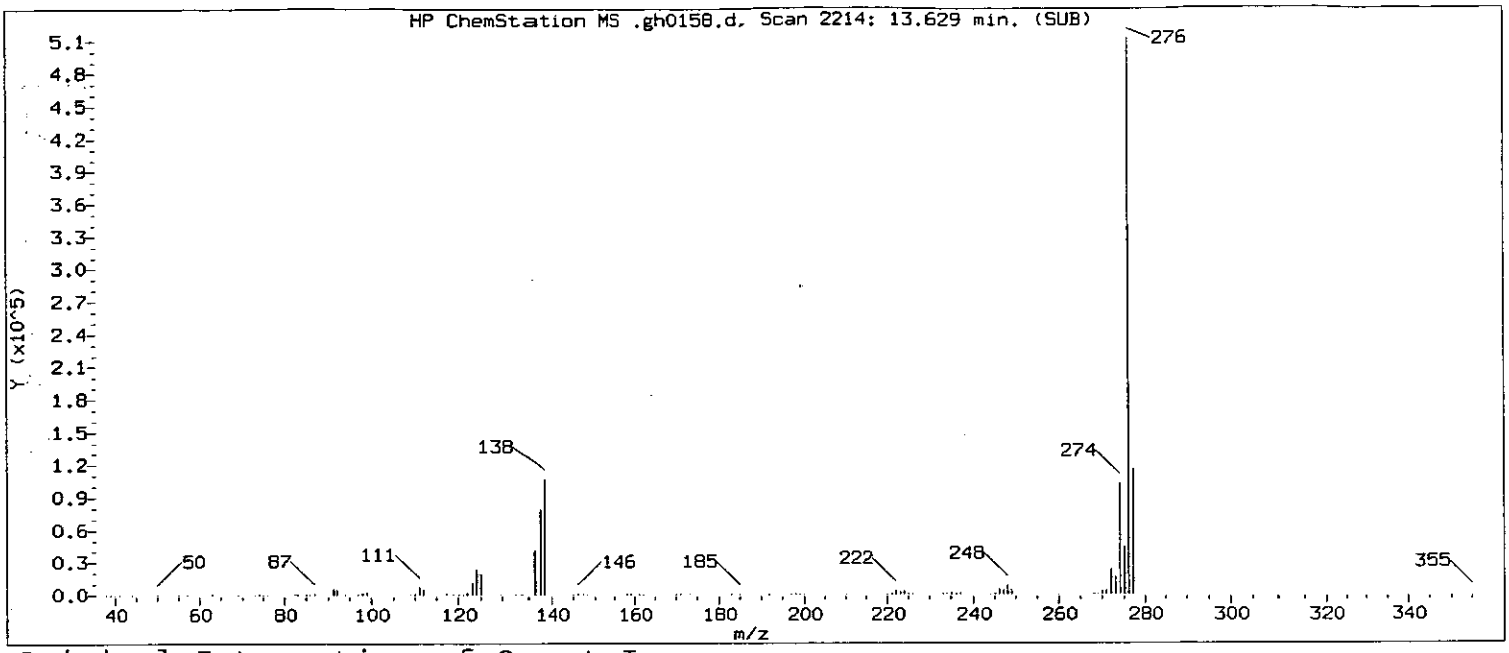
Compound Number : 171
Compound Name : Benzo(b)fluoranthene
Scan Number : 1907
Retention Time (minutes): 11.987
Quant Ion : 252
Area (flag) : 1020031 M
Concentration (ng/ul) : 52.3426
Integration start scan : 1901 Integration stop scan: 1909
Y at integration start : 1363 Y at integration end: 1363

Reason for manual integration (circle one): missed peak (improper integrati

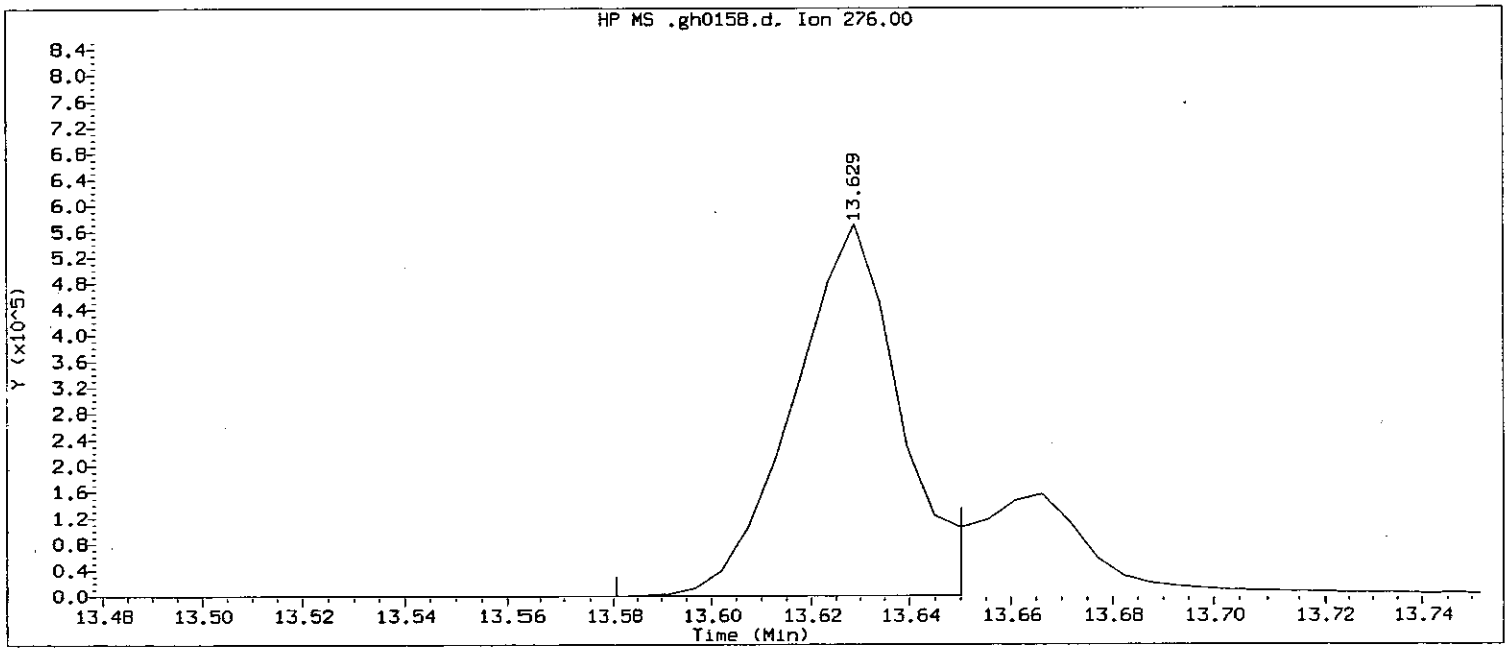
Analyst responsible for change: MAC (3) 8/5/07

GC/MS audit/management approval: 8/6/07

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 03-Aug-2007 23:11 Automation

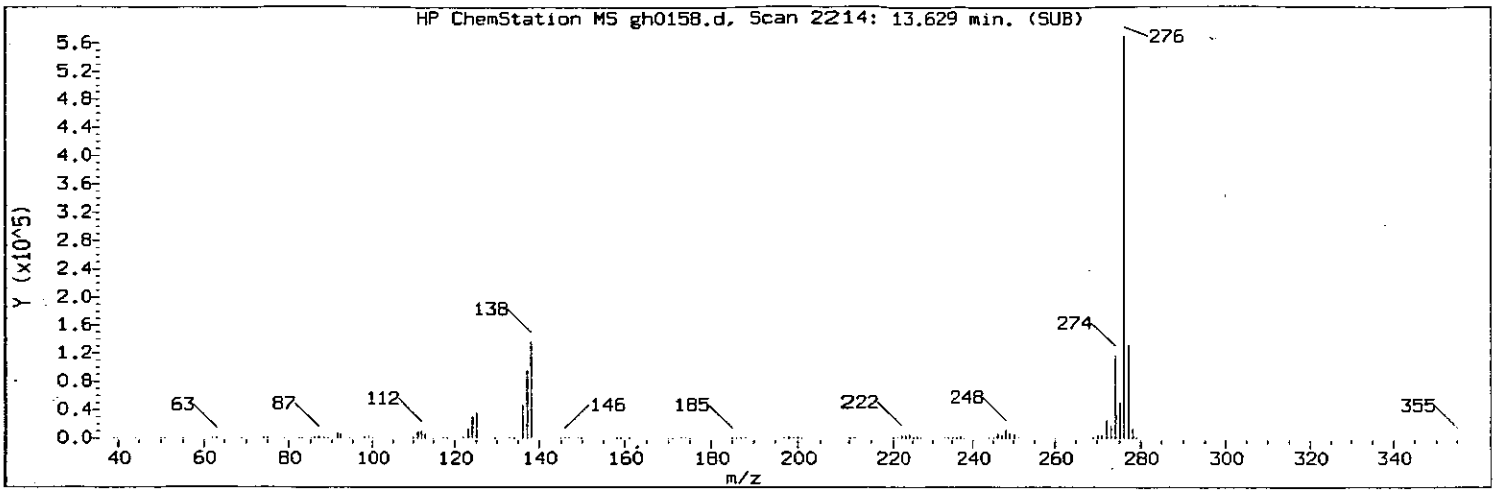
Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

Compound Number	:	176
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	2214
Retention Time (minutes)	:	13.629
Quant Ion	:	276
Area	:	840875
Concentration (ng/ul)	:	43.0396
Integration start scan	:	2204 Integration stop scan: 2217
Y at integration start	:	0 Y at integration end: 212

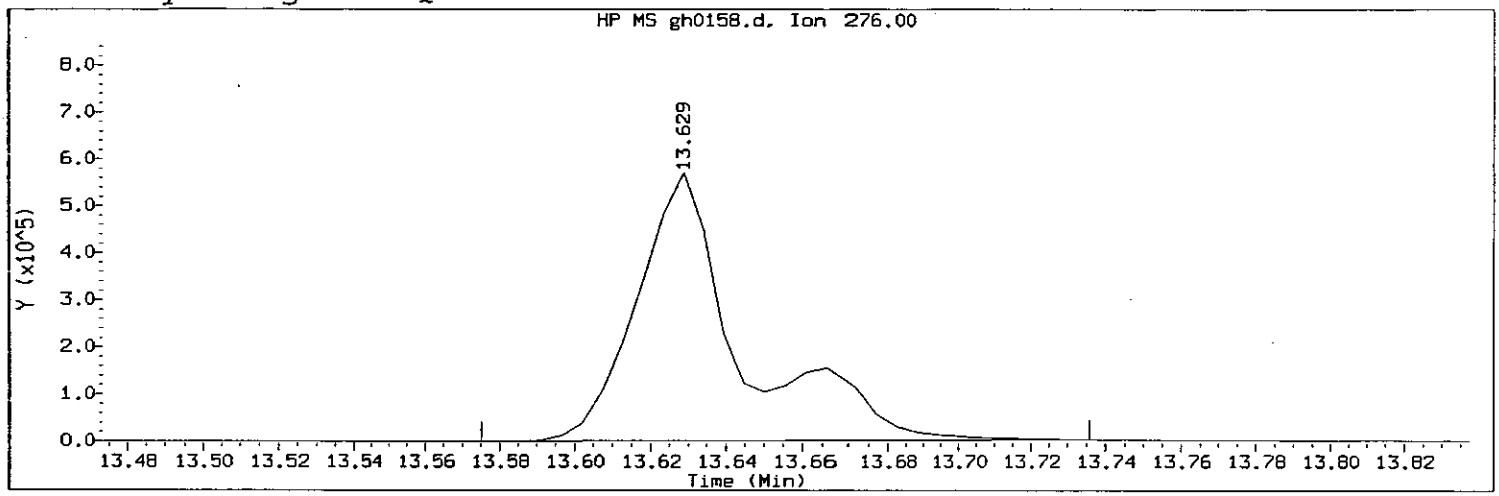
mc (13) 8/5/07
8759

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0158.d, generated on 08/06/2007 at 00:46

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0158.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 22:54 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:46 mac00013

Sample Name: 215WDLCS7 Lab Sample ID: 215WDLCS

Compound Number : 176
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 2214
Retention Time (minutes): 13.629
Quant Ion : 276
Area (flag) : 1064649 M
Concentration (ng/ul) : 54.4934
Integration start scan : 2203 Integration stop scan: 2233
Y at integration start : 0 Y at integration end: 4568

Reason for manual integration (circle one): missed peak ~~improper integrati~~

Analyst responsible for change: mc(3) 8/6/07

0768 8/6/07

GC/MS audit/management approval: _____

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

215WDLCSD7

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: 215WDLCSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: gh0159.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/03/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/03/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sepf

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/L	Q
91-20-3	Naphthalene			46	
208-96-8	Acenaphthylene			47	
83-32-9	Acenaphthene			47	
86-73-7	Fluorene			49	
85-01-8	Phenanthrene			48	
120-12-7	Anthracene			47	
206-44-0	Fluoranthene			48	
129-00-0	Pyrene			48	
56-55-3	Benzo(a)anthracene			46	
218-01-9	Chrysene			49	
205-99-2	Benzo(b)fluoranthene			51	
207-08-9	Benzo(k)fluoranthene			57	
50-32-8	Benzo(a)pyrene			56	
193-39-5	Indeno(1,2,3-cd)pyrene			53	
53-70-3	Dibenz(a,h)anthracene			57	
191-24-2	Benzo(g,h,i)perylene			56	

8761

215WDLCSD7 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 215WDLCSD

Data file: /chem/HP11165.i/07aug03a.b/gh0159.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 23:19 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.916(0.000)	585	152.0	147991(-11)	40.00	
52) Naphthalene-d8	6.066(0.000)	800	136.0	627156(-16)	40.00	
97) Acenaphthene-d10	7.542(0.005)	1076	164.0	414659(-15)	40.00	
134) Phenanthrene-d10	8.761(0.005)	1304	188.0	782102(-14)	40.00	
166) Chrysene-d12	10.949(0.005)	1713	240.0	766687(-6)	40.00	
174) Perylene-d12	12.398(0.011)	1984	264.0	546418(-24)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
38) Nitrobenzene-d5	(2)	5.435(0.002)	82	586078	87.141	87%		51 - 123
77) 2-Fluorobiphenyl	(3)	7.002(-0.001)	172	1201806	93.931	94%		63 - 118
155) Terphenyl-d14	(5)	10.088(0.000)	244	1553504	98.785	99%		52 - 151

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng
53) Naphthalene	(2)	6.082(0.001)	128	807093	45.829	45.83			1.00
94) Acenaphthylene	(3)	7.424(0.001)	152	891291	47.340	47.34			1.00
98) Acenaphthene	(3)	7.569(0.001)	153	571095	47.467	47.47			1.00
110) Fluorene	(3)	7.997(0.000)	166	670566	48.914	48.91			1.00
136) Phenanthrene	(4)	8.783(0.000)	178	1028733	47.612	47.61			1.00
137) Anthracene	(4)	8.826(0.000)	178	1035799	46.921	46.92			1.00
146) Fluoranthene	(4)	9.751(0.000)	202	1140665	47.705	47.71			1.00
153) Pyrene	(5)	9.938(0.000)	202	1159376	47.860	47.86			1.00
165) Benzo(a)anthracene	(5)	10.938(0.000)	228	1036612	45.601	45.60			1.00
167) Chrysene	(5)	10.970(0.000)	228	1056505	48.679	48.68			1.00
171) Benzo(b)fluoranthene	(6)	11.992(0.000)	252	1009869	50.950	50.95			1.00
172) Benzo(k)fluoranthene	(6)	12.024(0.000)	252	1143400	56.836	56.84			1.00
173) Benzo(a)pyrene	(6)	12.340(0.000)	252	1011231	56.188	56.19			1.00
176) Indeno(1,2,3-cd)pyrene	(6)	13.629(0.001)	276	1062854	53.487	53.49			1.00
177) Dibenz(a,h)anthracene	(6)	13.666(0.000)	278	940741	57.464	57.46			1.00
178) Benzo(g,h,i)perylene	(6)	13.939(0.000)	276	940189	56.219	56.22			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

215WDLCSD7 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 215WDLCSD

Data file: /chem/HP11165.i/07aug03a.b/gh0159.d Blank Data file reference:**/chem/HP11165.i/07aug03a.b/gh0157.d**
Injection date and time: 03-AUG-2007 23:19 Instrument ID: HP11165.i Batch: 07215WAD
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: **WPAH**
Calibration date and time (Last Method Edit): 03-AUG-2007 20:50
Mid Level Daily Calibration Standard Reference: /chem/HP11165.i/07aug03a.b/gh0151.d

Sample Concentration Formula: On-Column Amount * DF * Uf * Vt/(Vo * Vi) Matrix: WATER GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Volume (Vo): 1000.0 ml Final Extract Volume (Vt): 1000 ul

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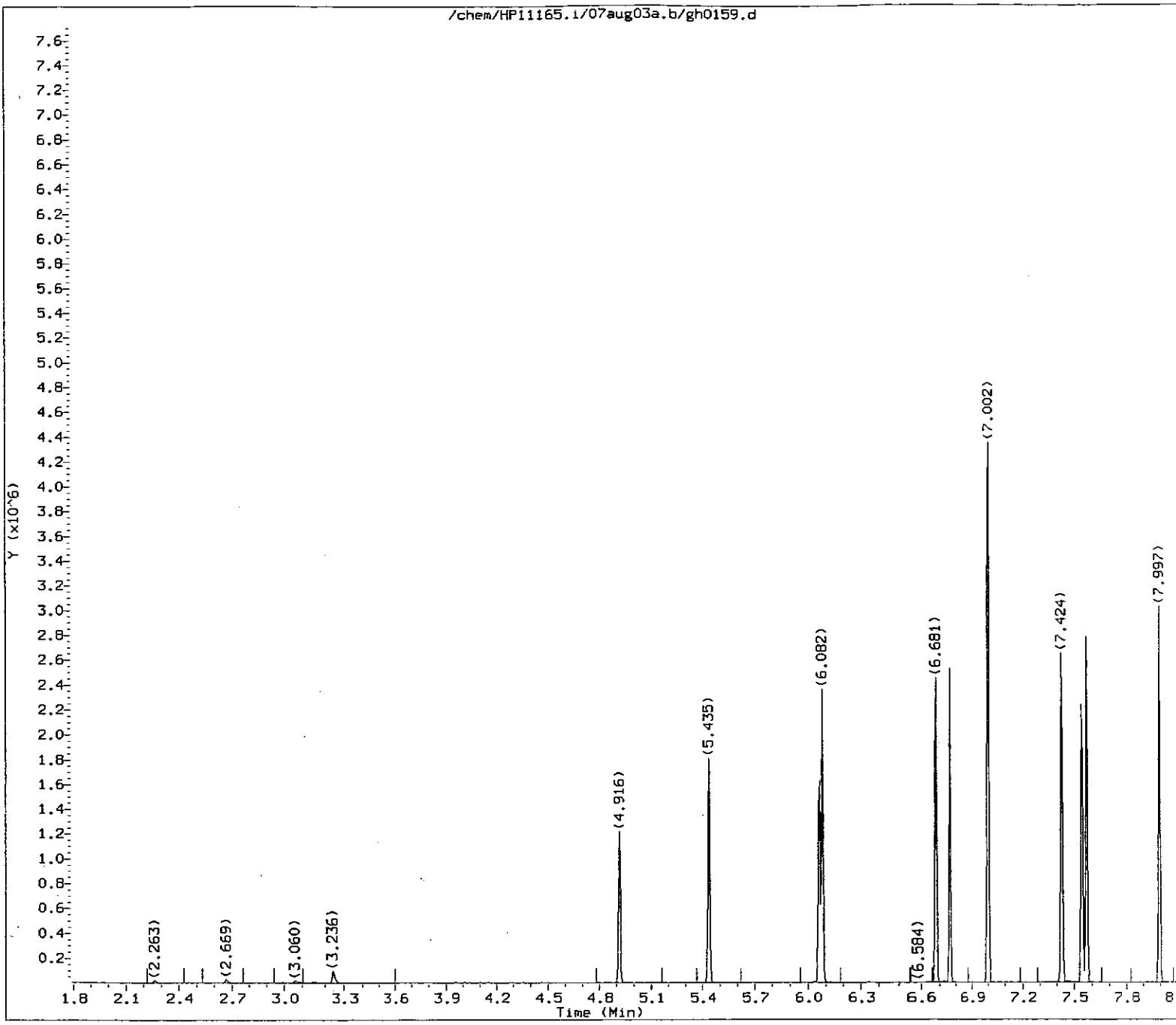
Total number of targets = 16

Comments:

Analyst: Date: 8/5/07
Auditor: Date: 8/6/07



Quant Report

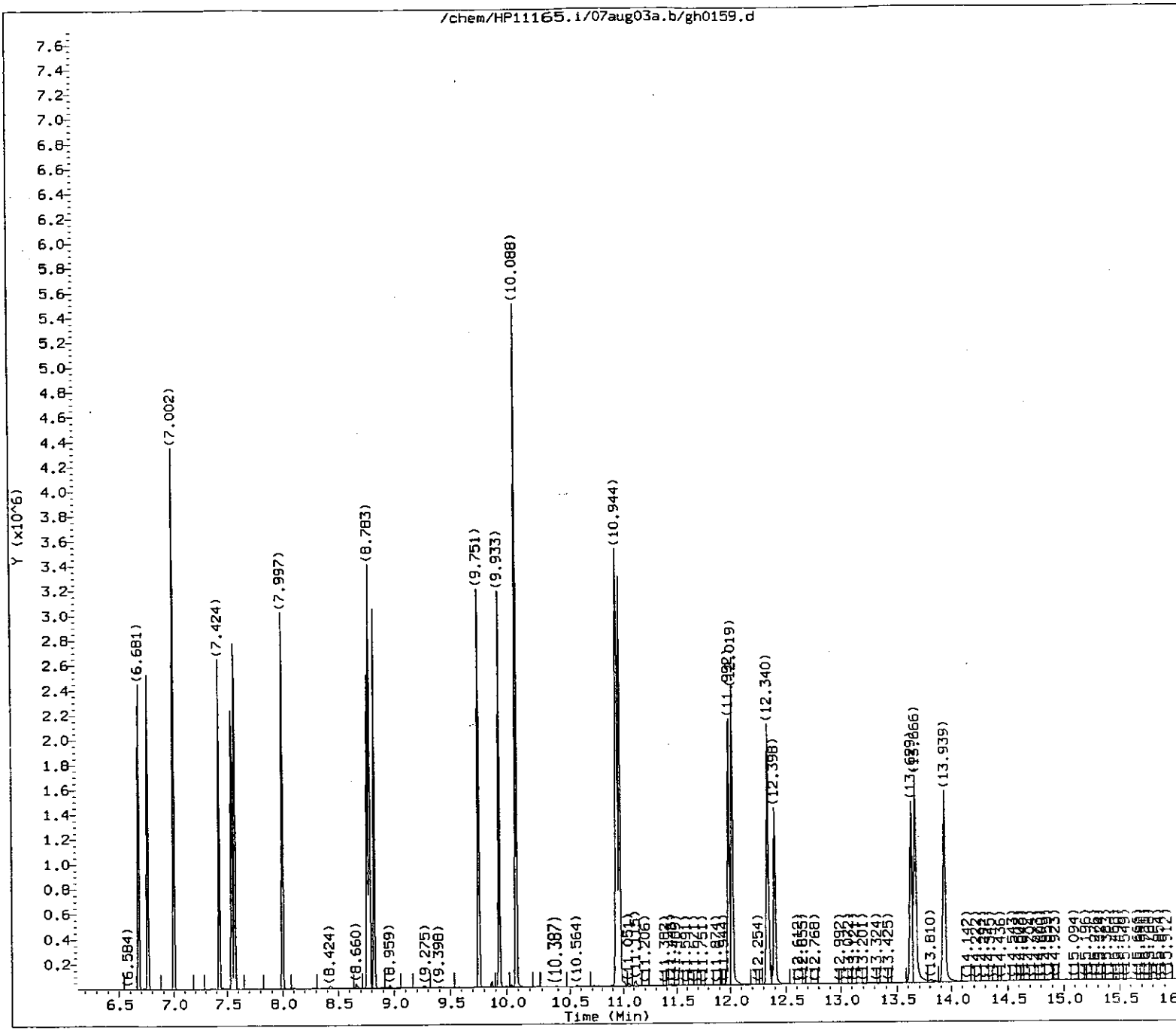
Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

mc 8764 (13) 5 1/5/07



Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

0765
mac (13) 8/5/07

Quant Report

Target Revision 3.5

Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

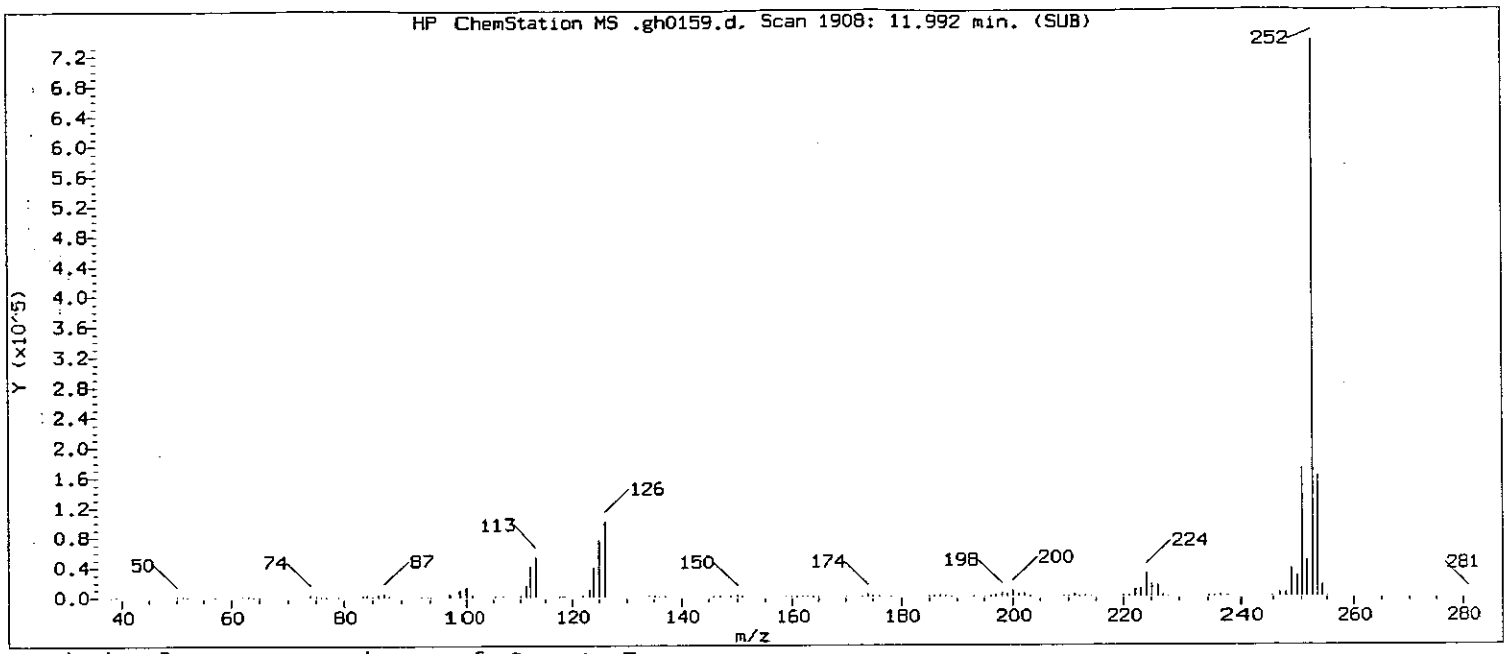
Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

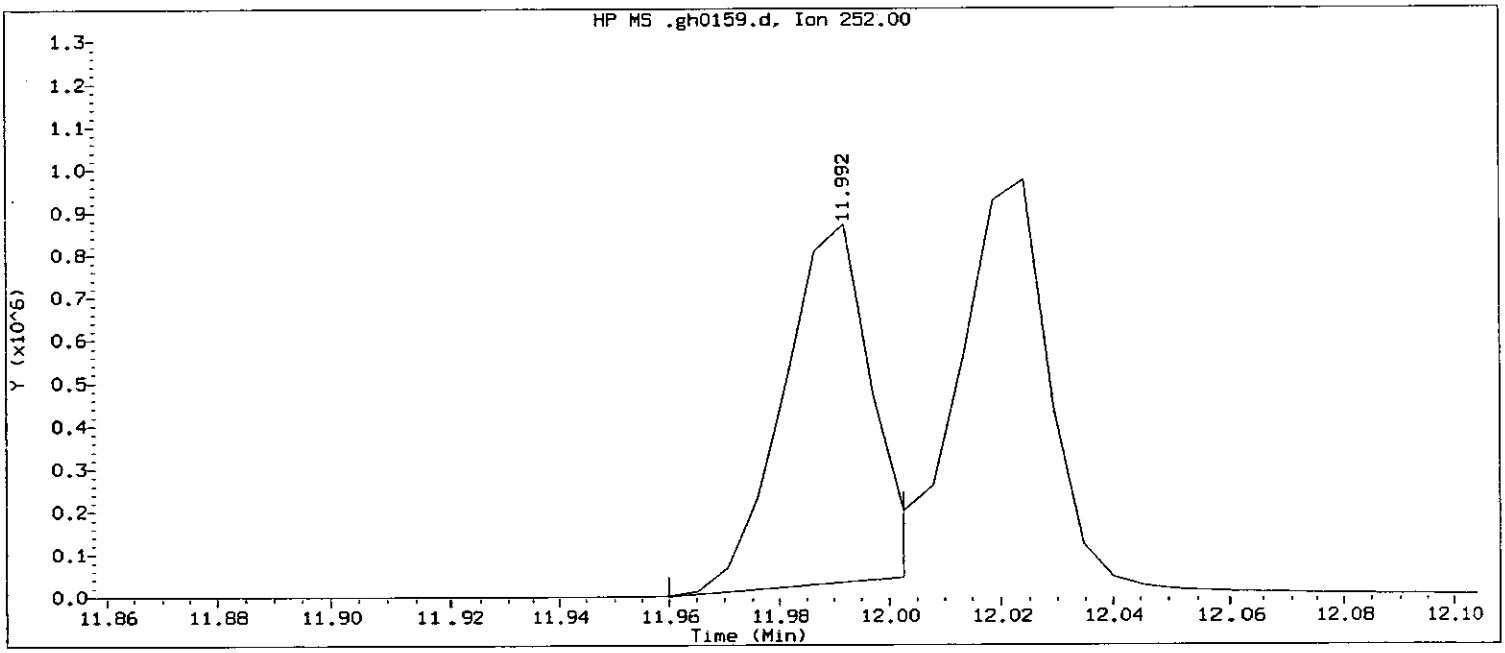
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21) 1,4-Dichlorobenzene-d4	(1)	4.916	152	147991	40.000
52) Naphthalene-d8	(2)	6.066	136	627156	40.000
53) Naphthalene	(2)	6.082	128	807093	45.829
94) Acenaphthylene	(3)	7.424	152	891291	47.340
97) Acenaphthene-d10	(3)	7.542	164	414659	40.000
98) Acenaphthene	(3)	7.569	153	571095	47.467
110) Fluorene	(3)	7.997	166	670566	48.914
134) Phenanthrene-d10	(4)	8.761	188	782102	40.000
136) Phenanthrene	(4)	8.783	178	1028733	47.612
137) Anthracene	(4)	8.826	178	1035799	46.921
146) Fluoranthene	(4)	9.751	202	1140665	47.705
153) Pyrene	(5)	9.938	202	1159376	47.860
165) Benzo(a)anthracene	(5)	10.938	228	1036612	45.601
166) Chrysene-d12	(5)	10.949	240	766687	40.000
167) Chrysene	(5)	10.970	228	1056505	48.679
171) Benzo(b)fluoranthene	(6)	11.992	252	1009869M	50.950
172) Benzo(k)fluoranthene	(6)	12.024	252	1143400	56.836
173) Benzo(a)pyrene	(6)	12.340	252	1011231	56.188
174) Perylene-d12	(6)	12.398	264	546418	40.000
176) Indeno(1,2,3-cd)pyrene	(6)	13.629	276	1062854M	53.487
177) Dibenz(a,h)anthracene	(6)	13.666	278	940741	57.464
178) Benzo(g,h,i)perylene	(6)	13.939	276	940189	56.219
38) Nitrobenzene-d5	(2)	5.435	82	586078	87.141
77) 2-Fluorobiphenyl	(3)	7.002	172	1201806	93.931
155) Terphenyl-d14	(5)	10.088	244	1553504	98.785

M = Compound was manually integrated. A = User selected an alternate h

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 03-Aug-2007 23:36 Automation

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

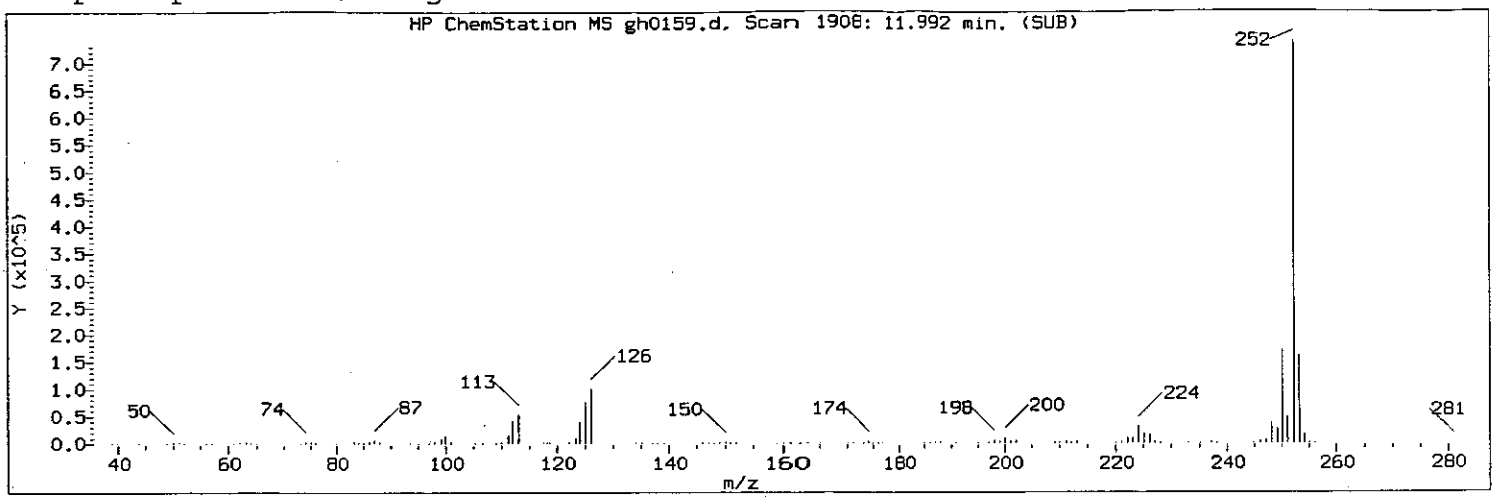
Compound Number	: 171
Compound Name	: Benzo(b)fluoranthene
Scan Number	: 1908
Retention Time (minutes)	: 11.992
Quant Ion	: 252
Area	: 925423
Concentration (ng/ul)	: 46.6898
Integration start scan	: 1901 Integration stop scan: 1909
Y at integration start	: 0 Y at integration end: 43856

mc (3) 8/5/07

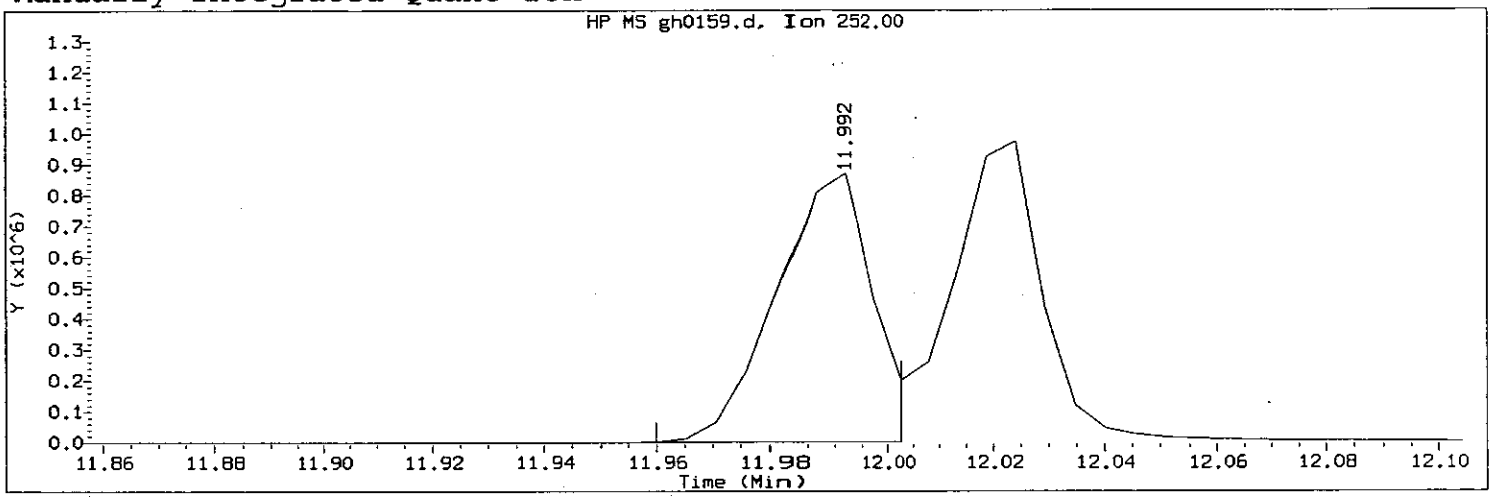
8267

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0159.d, generated on 08/06/2007 at 00:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

Compound Number : 171
Compound Name : Benzo(b)fluoranthene
Scan Number : 1908
Retention Time (minutes): 11.992
Quant Ion : 252
Area (flag) : 1009869 M
Concentration (ng/ul) : 50.9503
Integration start scan : 1901 Integration stop scan: 1909
Y at integration start : 1469 Y at integration end: 1469

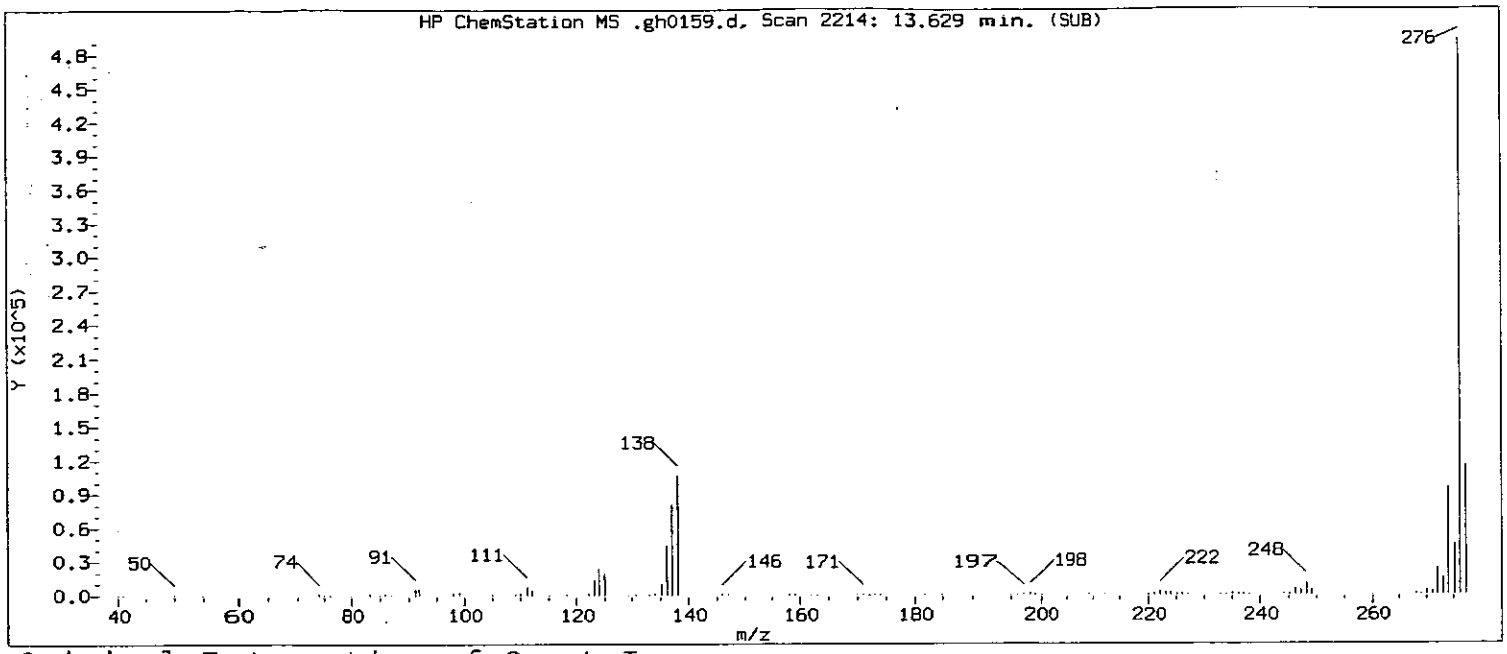
Reason for manual integration (circle one): missed peak improper integrati

Analyst responsible for change: mc 8/5/07

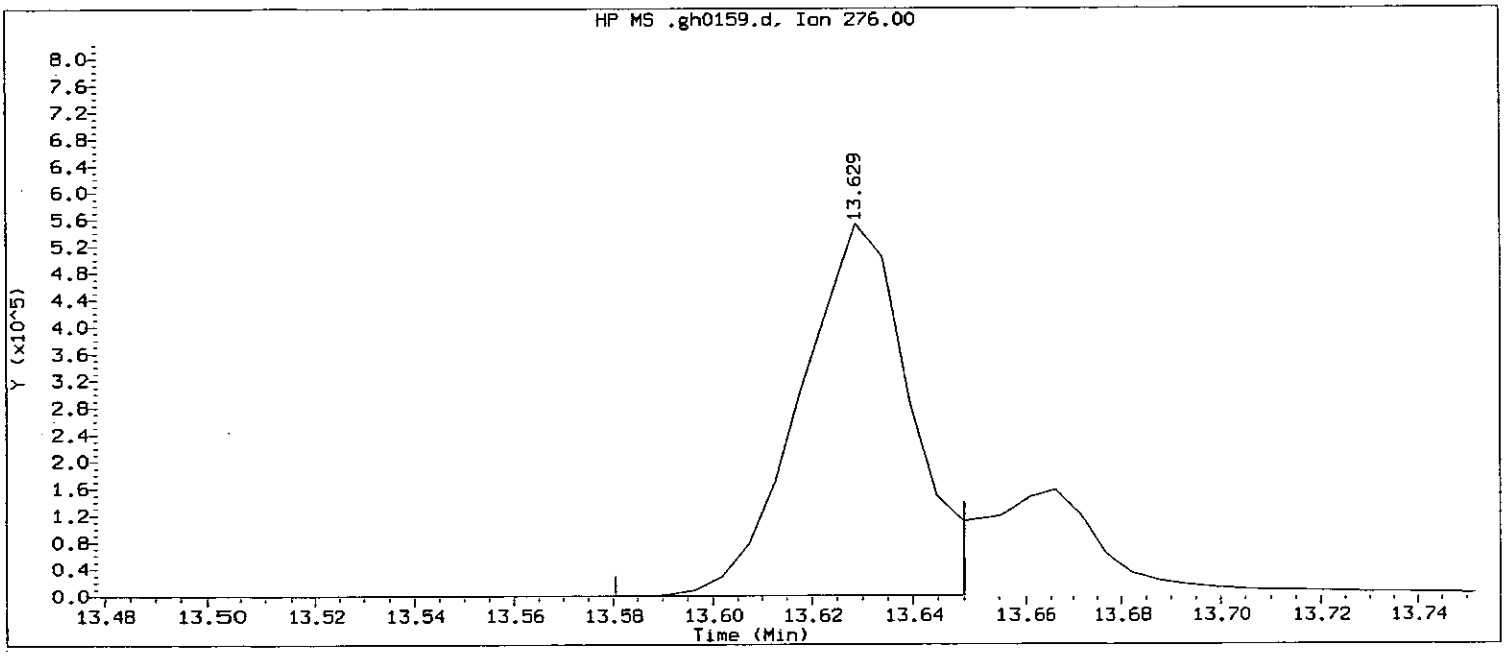
9768 8/6/07

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: all1
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 03-Aug-2007 23:36 Automation

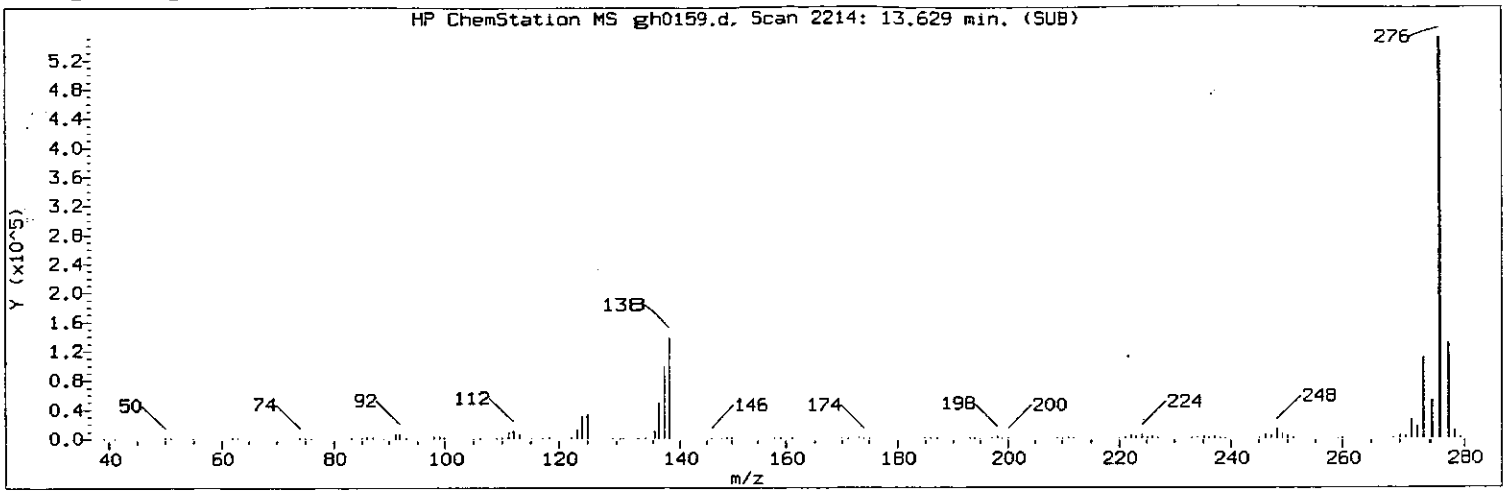
Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

Compound Number	:	176
Compound Name	:	Indeno(1,2,3-cd)pyrene
Scan Number	:	2214
Retention Time (minutes)	:	13.629
Quant Ion	:	276
Area	:	824791
Concentration (ng/ul)	:	41.5069
Integration start scan	:	2204 Integration stop scan: 2217
Y at integration start	:	0 Y at integration end: 119

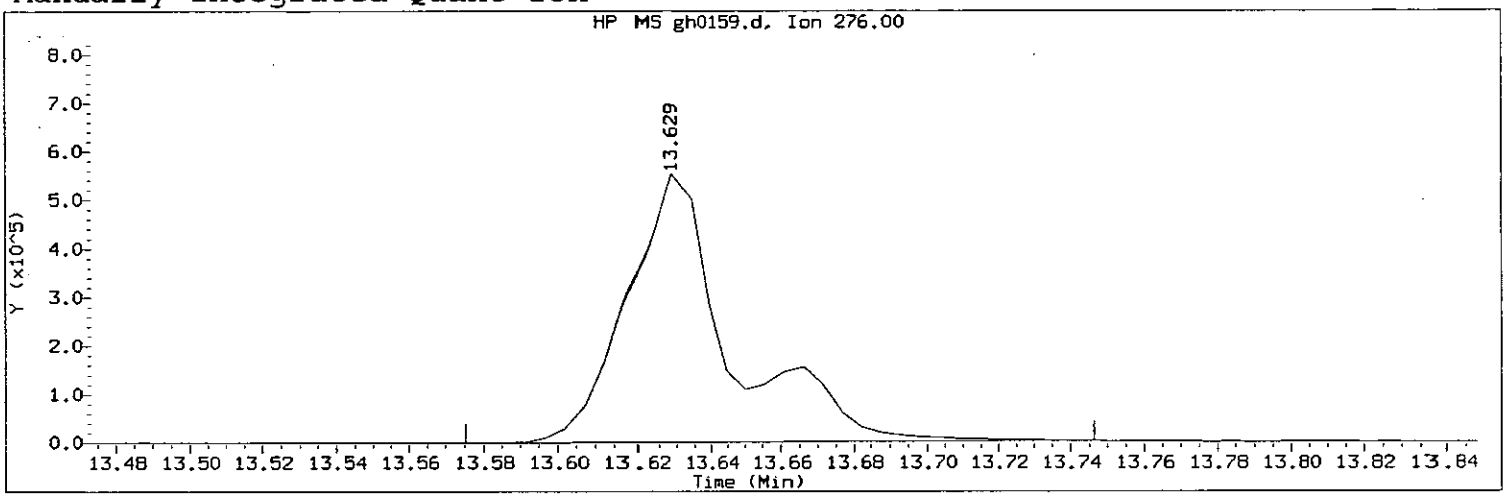
mc (3) 8/5/07
8769

Original Integration Report for data file /chem/HP11165.i/07aug03a.b/gh0159.d, generated on 08/06/2007 at 00:47

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP11165.i/07aug03a.b/gh0159.d Instrument ID: HP11165.i
Injection date and time: 03-AUG-2007 23:19 Analyst ID: gjd01970

Method used: /chem/HP11165.i/07aug03a.b/minti.m Sublist used: WPAH
Calibration date and time: 03-AUG-2007 20:50
Date, time and analyst ID of latest file update: 06-Aug-2007 00:47 mac00013

Sample Name: 215WDLCSD7 Lab Sample ID: 215WDLCSD

Compound Number : 176
Compound Name : Indeno(1,2,3-cd)pyrene
Scan Number : 2214
Retention Time (minutes): 13.629
Quant Ion : 276
Area (flag) : 1062854 M
Concentration (ng/ul) : 53.4873
Integration start scan : 2203 Integration stop scan: 2235
Y at integration start : 0 Y at integration end: 3474

Reason for manual integration (circle one): missed peak improper integratic

Analyst responsible for change: mac(3) 8/5/07

GC/MS audit/management approval: 8/6/07

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

220LCLCS3

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 220LCLCS

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0293.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/08/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/09/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/KG	Q
91-20-3	Naphthalene			1400	
91-57-6	2-Methylnaphthalene			1400	
208-96-8	Acenaphthylene			1500	
83-32-9	Acenaphthene			1500	
86-73-7	Fluorene			1400	
85-01-8	Phenanthrene			1500	
120-12-7	Anthracene			1500	
206-44-0	Fluoranthene			1300	
129-00-0	Pyrene			1600	
56-55-3	Benzo(a)anthracene			1500	
218-01-9	Chrysene			1500	
205-99-2	Benzo(b)fluoranthene			1500	
207-08-9	Benzo(k)fluoranthene			1500	
50-32-8	Benzo(a)pyrene			1500	
193-39-5	Indeno(1,2,3-cd)pyrene			1400	
53-70-3	Dibenz(a,h)anthracene			1500	
191-24-2	Benzo(g,h,i)perylene			1400	

8771

220LCLCS3

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

220LCLCS

Data file: /chem/HP10623.i/07aug09a.b/ch0293.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 18:19 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 09-Aug-2007 21:47 fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH17**
Calibration date and time (Last Method Edit): 09-AUG-2007 20:23
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.715(0.000)	526	152.0	76489(-21)	40.00	
46) Naphthalene-d8	5.846(0.000)	710	136.0	329993(-27)	40.00	
82) Acenaphthene-d10	7.316(0.000)	949	164.0	201701(-23)	40.00	
120) Phenanthrene-d10	8.527(0.006)	1146	188.0	350482(-24)	40.00	
149) Chrysene-d12	10.685(0.000)	1497	240.0	290778(-25)	40.00	
161) Perylene-d12	11.823(0.000)	1682	264.0	224538(-30)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.219(0.001)	82	325300	101.124	101%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.775(0.000)	172	552402	87.021	87%		55 - 123
138) Terphenyl-d14	(5)	9.849(0.000)	244	569711	95.186	95%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reportin Limit (ng
47) Naphthalene	(2)	5.858(0.001)	128	368939	40.951	1365.05			1.00
58) 2-Methylnaphthalene	(2)	6.455(0.000)	142	247659	40.963	1365.42			1.00
80) Acenaphthylene	(3)	7.199(0.000)	152	400233	44.164	1472.15			1.00
83) Acenaphthene	(3)	7.340(0.000)	153	248359	43.686	1456.21			1.00
94) Fluorene	(3)	7.764(0.000)	166	279536	41.177	1372.55			1.00
121) Phenanthrene	(4)	8.545(0.000)	178	432233	45.257	1508.56			1.00
124) Anthracene	(4)	8.588(-0.001)	178	444075	45.074	1502.47			1.00
134) Fluoranthene	(4)	9.517(-0.001)	202	425078	39.725	1324.17			1.00
136) Pyrene	(5)	9.695(0.000)	202	443364	48.787	1626.25			1.00
146) Benzo(a)anthracene	(5)	10.679(0.000)	228	361609	44.039	1467.97			1.00
150) Chrysene	(5)	10.710(0.000)	228	367827	45.393	1513.10			1.00
158) Benzo(b)fluoranthene	(6)	11.534(0.001)	252	348116	46.162	1538.73			1.00
159) Benzo(k)fluoranthene	(6)	11.558(0.000)	252	370769	43.749	1458.29			1.00
160) Benzo(a)pyrene	(6)	11.780(0.000)	252	339525	45.816	1527.20			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.640(0.001)	276	355907	42.711	1423.69			1.00
169) Dibenz(a,h)anthracene	(6)	12.665(0.000)	278	294335	44.108	1470.26			1.00
170) Benzo(g,h,i)perylene	(6)	12.868(0.001)	276	301527	43.154	1438.47			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Data file: /chem/HP10623.i/07aug09a.b/ch0293.d Blank Data file reference:**/chem/HP10623.i/07aug09a.b/ch0292.d**
Injection date and time: 09-AUG-2007 18:19 Instrument ID: HP10623.i Batch: 07220SLC
Date, time and analyst ID of latest file update: 09-Aug-2007 21:47 fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: **SPAH17**
Calibration date and time (Last Method Edit): 09-AUG-2007 20:23
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug09a.b/ch0291.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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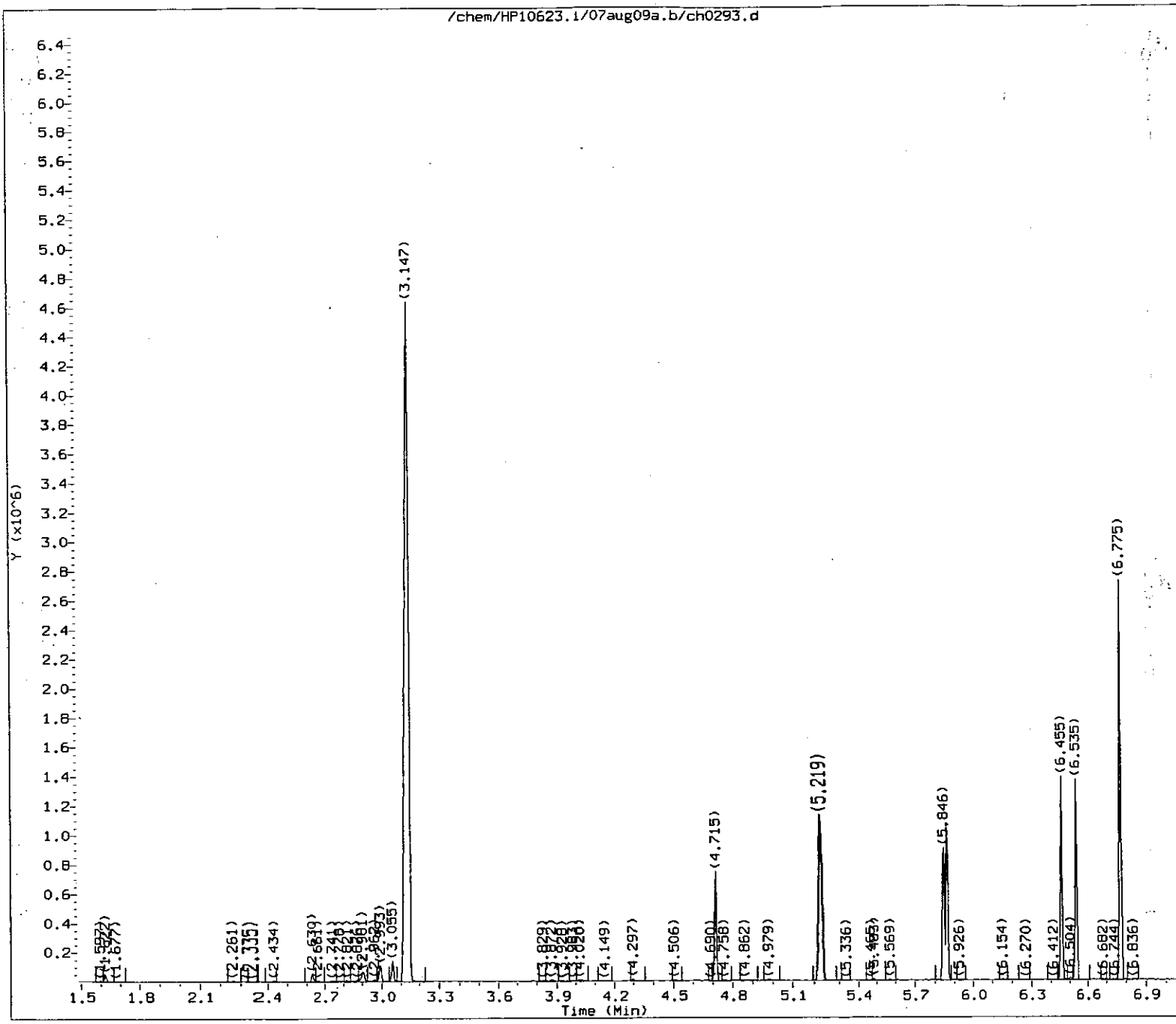
Total number of targets = 17

Comments: _____

Analyst: _____ Date: 8/13/07
Auditor: _____ Date: 8/13/07



Quant Report

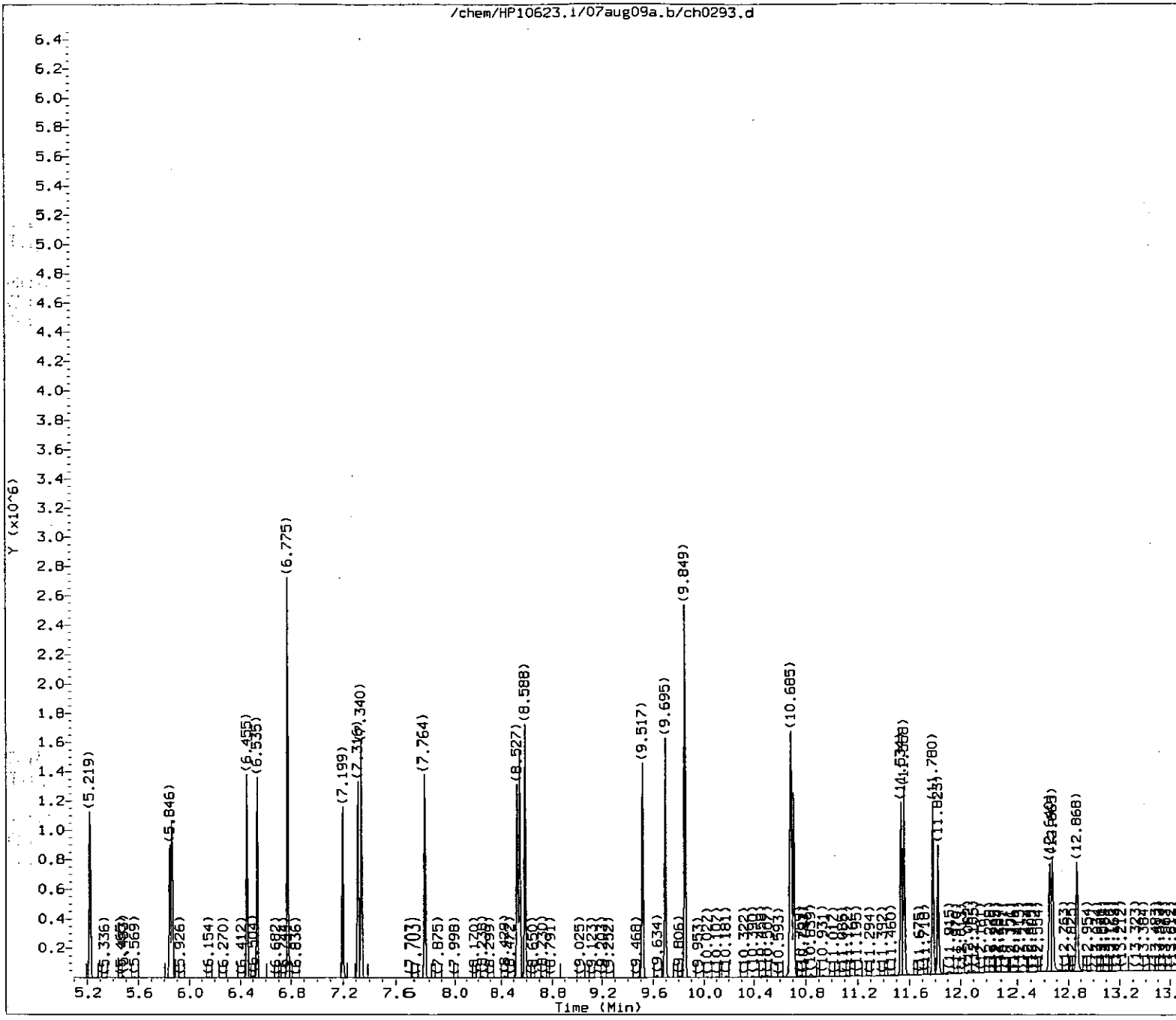
Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0293.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 18:19 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:47 fac01858

Sample Name: 220LCLCS3 Lab Sample ID: 220LCLCS

8274



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0293.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 18:19 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:47 fac01858

Sample Name: 220LCLCS3 Lab Sample ID: 220LCLCS

8775

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug09a.b/ch0293.d Instrument ID: HP10623.i
Injection date and time: 09-AUG-2007 18:19 Analyst ID: fac01858

Method used: /chem/HP10623.i/07aug09a.b/m8270.m Sublist used: SPAH17
Calibration date and time: 09-AUG-2007 20:23
Date, time and analyst ID of latest file update: 09-Aug-2007 21:47 fac01858

Sample Name: 220LCLCS3 Lab Sample ID: 220LCLCS

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.715	152	76489	40.0000
46)	Naphthalene-d8	(2)	5.846	136	329993	40.0000
47)	Naphthalene	(2)	5.858	128	368939	40.9514
58)	2-Methylnaphthalene	(2)	6.455	142	247659	40.9625
80)	Acenaphthylene	(3)	7.199	152	400233	44.1644
82)	Acenaphthene-d10	(3)	7.316	164	201701	40.0000
83)	Acenaphthene	(3)	7.340	153	248359	43.6863
94)	Fluorene	(3)	7.764	166	279536	41.1766
120)	Phenanthrene-d10	(4)	8.527	188	350482	40.0000
121)	Phenanthrene	(4)	8.545	178	432233	45.2567
124)	Anthracene	(4)	8.588	178	444075	45.0740
134)	Fluoranthene	(4)	9.517	202	425078	39.7252
136)	Pyrene	(5)	9.695	202	443364	48.7874
146)	Benzo(a)anthracene	(5)	10.679	228	361609	44.0390
149)	Chrysene-d12	(5)	10.685	240	290778	40.0000
150)	Chrysene	(5)	10.710	228	367827	45.3929
158)	Benzo(b)fluoranthene	(6)	11.534	252	348116	46.1620
159)	Benzo(k)fluoranthene	(6)	11.558	252	370769	43.7487
160)	Benzo(a)pyrene	(6)	11.780	252	339525	45.8160
161)	Perylene-d12	(6)	11.823	264	224538	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.640	276	355907	42.7108
169)	Dibenz(a,h)anthracene	(6)	12.665	278	294335	44.1077
170)	Benzo(g,h,i)perylene	(6)	12.868	276	301527	43.1541
35)	Nitrobenzene-d5	(2)	5.219	82	325300	101.1244
66)	2-Fluorobiphenyl	(3)	6.775	172	552402	87.0209
138)	Terphenyl-d14	(5)	9.849	244	569711	95.1857

M = Compound was manually integrated. A = User selected an alternate h

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

226LELCS3

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) SOIL Lab Sample ID: 226LELCS

Sample wt/vol: 30 (g/mL) G Lab File ID: ch0474.d

Level: (low/med) LOW Date Received:

% Moisture: not dec: dec: Date Extracted: 08/15/07

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/15/07

Injection Volume: 1 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Extraction: Sonc

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	LOQ	UG/KG	Q
91-20-3	Naphthalene			1400	
208-96-8	Acenaphthylene			1600	
83-32-9	Acenaphthene			1500	
86-73-7	Fluorene			1500	
85-01-8	Phenanthrene			1500	
120-12-7	Anthracene			1500	
206-44-0	Fluoranthene			1500	
129-00-0	Pyrene			1600	
56-55-3	Benzo(a)anthracene			1500	
218-01-9	Chrysene			1500	
205-99-2	Benzo(b)fluoranthene			1300	
207-08-9	Benzo(k)fluoranthene			1600	
50-32-8	Benzo(a)pyrene			1500	
193-39-5	Indeno(1,2,3-cd)pyrene			1300	
53-70-3	Dibenz(a,h)anthracene			1400	
191-24-2	Benzo(g,h,i)perylene			1300	

226LELCS3

Lancaster Labs
Quantitation Report GC/MS Semi-Volatiles

226LELCS

Data file: /chem/HP10623.i/07aug15.b/ch0474.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 15-AUG-2007 21:32 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Area)	Conc (ng/ul)	QC Flag
21) 1,4-Dichlorobenzene-d4	4.584	(0.000)	521	152.0	120537	(7)	40.00	
46) Naphthalene-d8	5.715	(0.000)	705	136.0	537136	(7)	40.00	
82) Acenaphthene-d10	7.185	(0.000)	944	164.0	334637	(8)	40.00	
120) Phenanthrene-d10	8.396	(0.000)	1141	188.0	603593	(9)	40.00	
149) Chrysene-d12	10.548	(-0.006)	1491	240.0	523855	(6)	40.00	
161) Perylene-d12	11.667	(0.000)	1673	264.0	444212	(3)	40.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
35) Nitrobenzene-d5	(2)	5.094	(0.000)	82	386419	79.850	80%		47 - 128
66) 2-Fluorobiphenyl	(3)	6.650	(0.000)	172	902212	89.007	89%		55 - 123
138) Terphenyl-d14	(5)	9.718	(0.001)	244	1067824	98.805	99%		49 - 134

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (ng/
47) Naphthalene	(2)	5.734	(0.000)	128	599403	41.779	1392.65			1.00
80) Acenaphthylene	(3)	7.068	(0.000)	152	669246	48.451	1615.03			1.00
83) Acenaphthene	(3)	7.216	(0.000)	153	419307	44.555	1485.16			1.00
94) Fluorene	(3)	7.640	(0.000)	166	499370	45.185	1506.18			1.00
121) Phenanthrene	(4)	8.415	(0.000)	178	740224	46.301	1543.38			1.00
124) Anthracene	(4)	8.458	(0.000)	178	753379	45.312	1510.39			1.00
134) Fluoranthene	(4)	9.380	(0.000)	202	779710	43.511	1450.38			1.00
136) Pyrene	(5)	9.558	(0.001)	202	808966	49.463	1648.78			1.00
146) Benzo(a)anthracene	(5)	10.536	(0.001)	228	650325	43.813	1460.44			1.00
150) Chrysene	(5)	10.567	(0.001)	228	675042	44.882	1496.07			1.00
158) Benzo(b)fluoranthene	(6)	11.385	(0.000)	252	613838	39.656	1321.86			1.00
159) Benzo(k)fluoranthene	(6)	11.403	(0.000)	252	774394	49.466	1648.85			1.00
160) Benzo(a)pyrene	(6)	11.624	(0.000)	252	644629	44.885	1496.18			1.00
168) Indeno(1,2,3-cd)pyrene	(6)	12.448	(0.000)	276	707458	39.086	1302.87			1.00
169) Dibenz(a,h)anthracene	(6)	12.467	(0.000)	278	612368	42.555	1418.49			1.00
170) Benzo(g,h,i)perylene	(6)	12.657	(0.000)	276	608370	39.562	1318.72			1.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

226LELCS3 Lancaster Labs Quantitation Report GC/MS Semi-Volatiles 226LELCS

Data file: /chem/HP10623.i/07aug15.b/ch0474.d Blank Data file reference:**/chem/HP10623.i/07aug15.b/ch0473.d**
Injection date and time: 15-AUG-2007 21:32 Instrument ID: HP10623.i Batch: 07226SLE
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: **SPAH**
Calibration date and time (Last Method Edit): 15-AUG-2007 20:42
Mid Level Daily Calibration Standard Reference: /chem/HP10623.i/07aug15.b/ch0471.d

Sample Concentration Formula: On-Column Amount * DF * (GpcCleanup+1)*Uf*Vt/(Vi*Ws) Matrix: SOIL GPC Cleanup: No

Dilution Factor (DF): 1 Unit Correction Factor (Uf): 1 Volume Injected (Vi): 1 ul
GPC Cleanup Factor (gpcf): 1 Sample Weight (Ws): 30.0 g Final Extract Volume (Vt): 1000 ul

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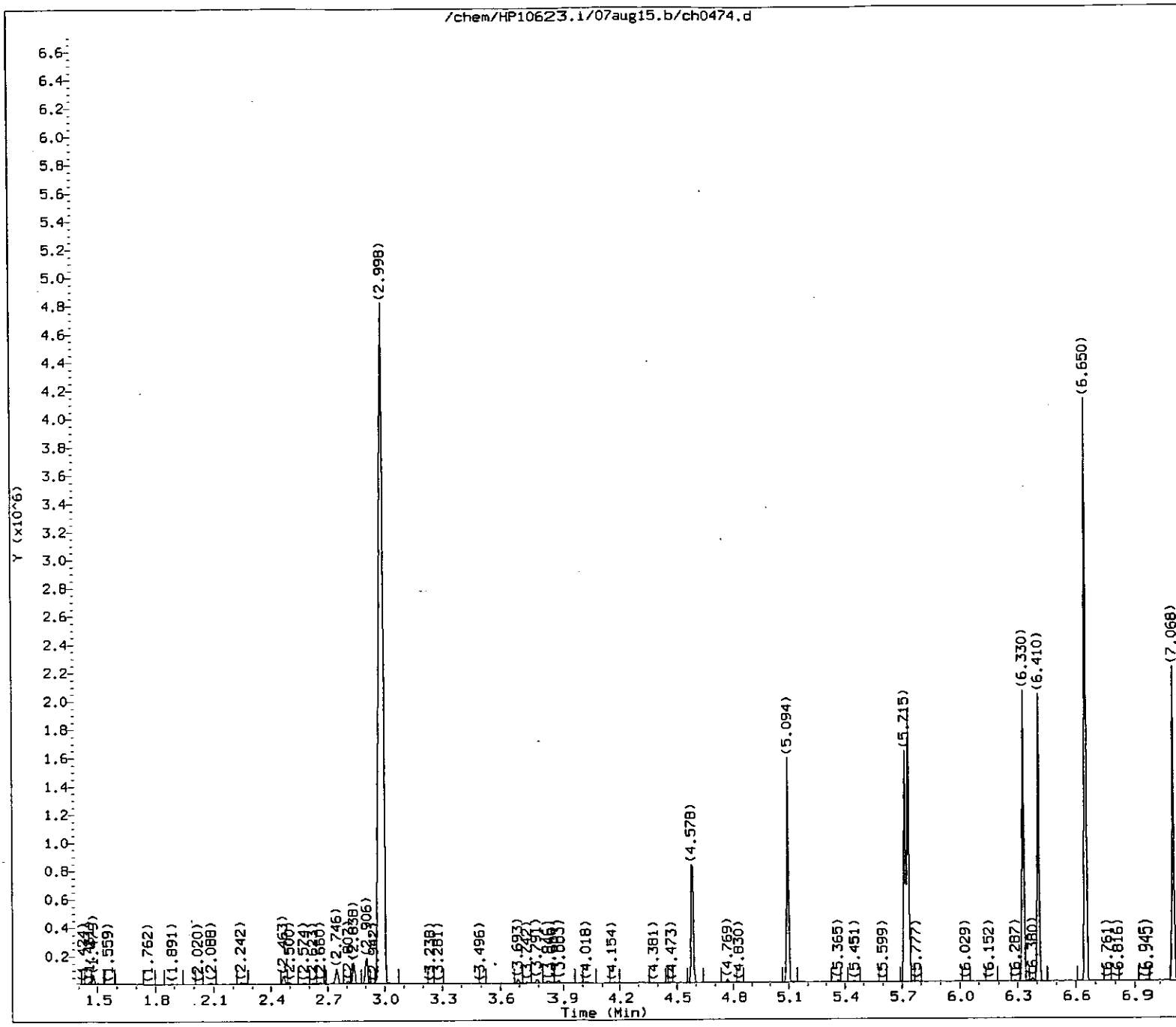
Total number of targets = 16

Comments:

Analyst: Date: 08/15/07
Auditor: Date: 8/16/07

8279



Quant Report

Target Revision 3.5

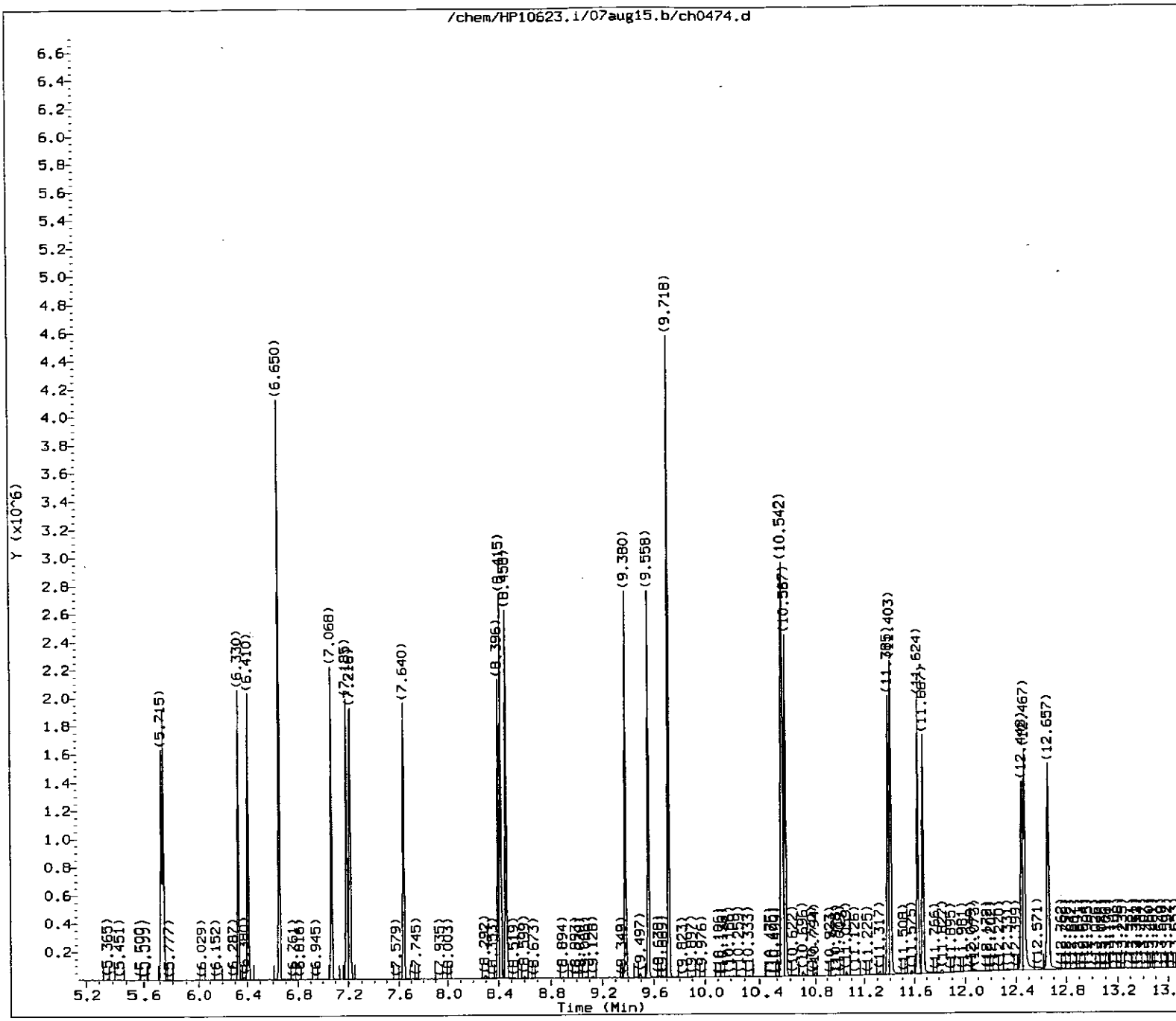
Data File: /chem/HP10623.i/07aug15.b/ch0474.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:32 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: 226LELCS3 Lab Sample ID: 226LELCS

0788

lmh 8/15/07



Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0474.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:32 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: 226LELCS3 Lab Sample ID: 226LELCS

8781

lmh 8/15/07

Quant Report

Target Revision 3.5

Data File: /chem/HP10623.i/07aug15.b/ch0474.d Instrument ID: HP10623.i
Injection date and time: 15-AUG-2007 21:32 Analyst ID: lmh00956

Method used: /chem/HP10623.i/07aug15.b/m8270.m Sublist used: SPAH
Calibration date and time: 15-AUG-2007 20:42
Date, time and analyst ID of latest file update: 15-Aug-2007 22:36 lmh00956

Sample Name: 226LELCS3 Lab Sample ID: 226LELCS

	Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
21)	1,4-Dichlorobenzene-d4	(1)	4.584	152	120537	40.0000
46)	Naphthalene-d8	(2)	5.715	136	537136	40.0000
47)	Naphthalene	(2)	5.734	128	599403	41.7794
80)	Acenaphthylene	(3)	7.068	152	669246	48.4508
82)	Acenaphthene-d10	(3)	7.185	164	334637	40.0000
83)	Acenaphthene	(3)	7.216	153	419307	44.5549
94)	Fluorene	(3)	7.640	166	499370	45.1854
120)	Phenanthrene-d10	(4)	8.396	188	603593	40.0000
121)	Phenanthrene	(4)	8.415	178	740224	46.3014
124)	Anthracene	(4)	8.458	178	753379	45.3116
134)	Fluoranthene	(4)	9.380	202	779710	43.5113
136)	Pyrene	(5)	9.558	202	808966	49.4633
146)	Benzo(a)anthracene	(5)	10.536	228	650325	43.8133
149)	Chrysene-d12	(5)	10.548	240	523855	40.0000
150)	Chrysene	(5)	10.567	228	675042	44.8820
158)	Benzo(b)fluoranthene	(6)	11.385	252	613838	39.6558
159)	Benzo(k)fluoranthene	(6)	11.403	252	774394	49.4656
160)	Benzo(a)pyrene	(6)	11.624	252	644629	44.8854
161)	Perylene-d12	(6)	11.667	264	444212	40.0000
168)	Indeno(1,2,3-cd)pyrene	(6)	12.448	276	707458	39.0861
169)	Dibenz(a,h)anthracene	(6)	12.467	278	612368	42.5547
170)	Benzo(g,h,i)perylene	(6)	12.657	276	608370	39.5615
35)	Nitrobenzene-d5	(2)	5.094	82	386419	79.8497
66)	2-Fluorobiphenyl	(3)	6.650	172	902212	89.0068
138)	Terphenyl-d14	(5)	9.718	244	1067824	98.8050

M = Compound was manually integrated. A = User selected an alternate hi

Lancaster Laboratories

Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: MC (13) *** Shift #2 Analyst: *

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\07aug05\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	ch0100.D	50NG/UL	8270DFTPP1427	05 Aug 2007	05:09			NU
2	ch0101.D	SSTD050	STD2057	05 Aug 2007	05:23			NU
1	ch0100Z.D	50NG/UL	8270DFTPP1427	05 Aug 2007	05:45			NU
1	ch0100Y.D	50NG/UL	8270DFTPP1427	05 Aug 2007	06:15			MR
2	ch0101A.D	SSTD050	STD2057	05 Aug 2007	06:33			MR
3	ch0102.D	SSTD080	STD2057	05 Aug 2007	06:53			MR
4	ch0103.D	SSTD120	STD2057	05 Aug 2007	07:14			MR
5	ch0104.D	SSTD030	STD2057	05 Aug 2007	07:34			MR
6	ch0105.D	SSTD015	STD2057	05 Aug 2007	07:54			MR
7	ch0106.D	SSTD005	STD2057	05 Aug 2007	08:15			MR
8	ch0107.D	SSTD001	8270MDL2057	05 Aug 2007	08:35			MR
9	ch0108.D	SSTD050	8270ICV2057	05 Aug 2007	08:55			MR
10	ch0109.D	SSTD050	BAS1717	05 Aug 2007	09:16			MR
11	ch0110.D	SSTD080	BAS1717	05 Aug 2007	09:36			MR
12	ch0111.D	SSTD120	BAS1717	05 Aug 2007	09:56			MR
13	ch0112.D	SSTD030	BAS1717	05 Aug 2007	10:16			MR
14	ch0113.D	SSTD015	BAS1717	05 Aug 2007	10:37			MR
15	ch0114.D	SSTD005	BAS1717	05 Aug 2007	10:57			MR
16	ch0115.D	SSTD001	BASMDL1717	05 Aug 2007	11:17			MR

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: fc *** Shift #2 Analyst: *

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
MR =	Meets requirements	IUO =	Internal use only
Cz =	Confirms z, (z = I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is — D:\DATA\07aug09a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	ch0290.D	50NG/UL	8270DFTPP1427	09 Aug 2007	15:45			NU
1	ch0290z.D	50NG/UL	8270DFTPP1427	09 Aug 2007	16:07			NU
1	ch0290y.D	50NG/UL	8270DFTPP1427	09 Aug 2007	16:48			NU
1	ch0290x.D	50NG/UL	8270DFTPP1427	09 Aug 2007	17:08			MR
2	ch0291.D	SSTD030	STD2057	09 Aug 2007	17:23			MR
66	ch0292.D	SBLKLC2203	SBLKLC220	09 Aug 2007	17:58	07220SLC		MR
67	ch0293.D	220LCLCS3	220LCLCS	09 Aug 2007	18:19	07220SLC		MR
71	ch0294.D	SBLKWB0713	SBLKWB071	09 Aug 2007	18:39	07220SLC		MR, I.U.O.
72	ch0295.D	071WAB	5000831	09 Aug 2007	19:00	07220SLC		MR, I.U.O.
72	ch0296.D	071WAB	5000831	09 Aug 2007	19:21	07220SLC		MR, I.U.O.
73	ch0297.D	071WAB	5000833	09 Aug 2007	19:41	07220SLC		MR, I.U.O.
73	ch0298.D	071WAB	5000833	09 Aug 2007	20:02	07220SLC		MR, I.U.O.
74	ch0299.D	071WAB	5000835	09 Aug 2007	20:23	07220SLC		MR, I.U.O.
74	ch0300.D	071WAB	5000835	09 Aug 2007	20:44	07220SLC		MR, I.U.O.
75	ch0301.D	TP217	5118301	09 Aug 2007	21:05	07220SLC		S, X
76	ch0302.D	TP217MS	5118302	09 Aug 2007	21:25	07220SLC		MR
77	ch0303.D	TP217MSD	5118303	09 Aug 2007	21:46	07220SLC		S
78	ch0304.D	TP218	5118304	09 Aug 2007	22:07	07220SLC		MR, F5
79	ch0305.D	4T217	5118305	09 Aug 2007	22:27	07220SLC		MR
80	ch0306.D	FD801	5118306	09 Aug 2007	22:48	07220SLC		MR, F5
81	ch0307.D	769S1	5119935	09 Aug 2007	23:09	07220SLC		MR
82	ch0308.D	769S2	5119936	09 Aug 2007	23:30	07220SLC		MR
83	ch0309.D	769S6	5119937	09 Aug 2007	23:51	07220SLC		MR
84	ch0310.D	42-07DL	5117959DL	10 Aug 2007	00:12	07218SLC	2	MR
11	ch0311.D	SBLKLB2213	SBLKLB221	10 Aug 2007	00:33	07221SLB	2	MR
12	ch0312.D	221LBLCS3	221LBLCS	10 Aug 2007	00:54	07221SLB	2	MR
13	ch0313.D	P-SW2	5123777	10 Aug 2007	01:15	07221SLB	2	MR
14	ch0314.D	P-SW3	5123778	10 Aug 2007	01:36	07221SLB	2	MR
15	ch0315.D	P-SW4	5123779	10 Aug 2007	01:57	07221SLB	2	MR
16	ch0316.D	ESW11	5122677	10 Aug 2007	02:18	07221SLB	2	I, R
17	ch0317.D	SB212	5113430	10 Aug 2007	02:38	07221SLB	2	MR
18	ch0318.D	239S2	5123706	10 Aug 2007	03:00	07221SLB		MR
19	ch0319.D	239S2MS	5123707	10 Aug 2007	03:20	07221SLB		I, R
16	ch031A.D	ESW11RE	5122677RE	10 Aug 2007	03:41	07221SLB	2	I, C
20	ch0320.D	239S2MSD	5123708	10 Aug 2007	04:02	07221SLB		MR
21	ch0321.D	BFF03	5122137	10 Aug 2007	04:23	07221SLB		MR
22	ch0322.D	BFF09	5122138	10 Aug 2007	04:44	07221SLB		MR
23	ch0323.D	BFF08	5122139	10 Aug 2007	05:05	07221SLB		MR
24	ch0324.D	BFF07	5122140	10 Aug 2007	05:26	07221SLB		T
25	ch0325.D	BFF11	5122141	10 Aug 2007	05:47	07221SLB		T
26	ch0326.D	BFF12	5122142	10 Aug 2007	06:08	07221SLB		T
27	ch0327.D	BFF02	5122143	10 Aug 2007	06:29	07221SLB		T
28	ch0328.D	BFF10	5122144	10 Aug 2007	06:50	07221SLB	0784	T

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: FC *** Shift #2 Analyst: *

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
MR =	Meets requirements	IUO =	Internal use only
Cz =	Confirms z, (z = I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\07aug12\

ALS Bt1 #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	ch0330.D	50NG/UL	8270DFTPP1427	12 Aug 2007	15:27			NU
1	ch0330z.D	50NG/UL	8270DFTPP1427	12 Aug 2007	16:01			MR
2	ch0331.D	SSTD050	STD2057	12 Aug 2007	16:52			MR
11	ch0332.D	SBLKLC2213	SBLKLC221	12 Aug 2007	17:24	07221SLC		MR
12	ch0333.D	221LCLCS3	221LCLCS	12 Aug 2007	17:45	07221SLC		MR
13	ch0334.D	SBLKLD2223	SBLKLD222	12 Aug 2007	18:05	07222SLD		MR
14	ch0335.D	221LCLCS3	221LCLCS	12 Aug 2007	18:26	07222SLD		MR
16	ch0336.D	FLNE-	5122885	12 Aug 2007	18:47	07221SLC		MR
17	ch0337.D	FLE--	5122886	12 Aug 2007	19:08	07221SLC		MR
18	ch0338.D	FLS--	5122887	12 Aug 2007	19:28	07221SLC		MR
19	ch0339.D	FLW--	5122888	12 Aug 2007	19:48	07221SLC		MR
20	ch0340.D	FLN--	5122889	12 Aug 2007	20:09	07221SLC		MR
21	ch0341.D	-PP--	5122890	12 Aug 2007	20:30	07221SLC		MR
22	ch0342.D	NPT-1	5123814	12 Aug 2007	20:51	07222SLD		MR
23	ch0343.D	NPT-2	5123815	12 Aug 2007	21:12	07222SLD		MR
24	ch0344.D	NPT-3	5123816	12 Aug 2007	21:32	07222SLD		MR
25	ch0345.D	NPT-4	5123817	12 Aug 2007	21:53	07222SLD		MR
26	ch0346.D	NPT-5	5123818	12 Aug 2007	22:13	07222SLD		MR
27	ch0347.D	NPT-6	5123819	12 Aug 2007	22:34	07222SLD		MR
31	ch0348.D	TP218DL	5118304DL	12 Aug 2007	22:55	07220SLC	5	MR
32	ch0349.D	FD801DL	5118306DL	12 Aug 2007	23:16	07220SLC	5	MR
36	ch0350.D	BFF07	5122140	12 Aug 2007	23:37	07221SLB		MR
37	ch0351.D	BFF11	5122141	12 Aug 2007	23:58	07221SLB		MR
38	ch0352.D	BFF12	5122142	13 Aug 2007	00:18	07221SLB		MR
39	ch0353.D	BFF02	5122143	13 Aug 2007	00:39	07221SLB		MR
40	ch0354.D	BFF10	5122144	13 Aug 2007	01:00	07221SLB		MR

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Lancaster Laboratories

Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst: MAC (13) *** Shift #2 Analyst: CMH

Comment Code:

R = Reinjection necessary		X = Sample sent to be reextracted	
S = Surrogate problem		I = Internal Standard problem	
NU = Not used		F = Further dilution required	
MR = Meets requirements		IUO = Internal use only	
Cz = Confirms z, (z = I or X)		T = Injected outside valid tune period	

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\07aug13\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	ch0360.D	50NG/UL	8270DFTPP1427	13 Aug 2007	19:13			NU
1	ch0360z.D	50NG/UL	8270DFTPP1427	13 Aug 2007	19:28			NU
1	ch0360y.D	50NG/UL	8270DFTPP1427	13 Aug 2007	19:52			NU
1	ch0360X.D	50NG/UL	8270DFTPP1427	13 Aug 2007	20:04			NU
1	ch0360W.D	50NG/UL	8270DFTPP1427	13 Aug 2007	22:47			NU
1	ch0370.D	50NG/UL	8270DFTPP1427	13 Aug 2007	23:38			NU
1	ch0370Z.D	50NG/UL	8270DFTPP1427	13 Aug 2007	23:57			NU
2	ch0371.D	SSTD080	STD2187	14 Aug 2007	00:12			NU
1	ch0370Y.D	50NG/UL	8270DFTPP1427	14 Aug 2007	00:33			MR
2	ch0371A.D	SSTD080	STD2187	14 Aug 2007	00:49			MR
3	ch0372.D	SSTD120	STD2187	14 Aug 2007	01:14			MR
4	ch0373.D	SSTD050	STD2187	14 Aug 2007	01:35			MR
5	ch0374.D	SSTD030	STD2187	14 Aug 2007	01:56			MR
6	ch0375.D	SSTD015	STD2187	14 Aug 2007	02:17			MR
7	ch0376.D	SSTD005	STD2187	14 Aug 2007	02:38			MR
8	ch0377.D	SSTD001	8270MDL2187	14 Aug 2007	02:59			MR
9	ch0378.D	SSTD050	ICV1387	14 Aug 2007	03:19			MR
10	ch0379.D	SBLKLE2223	SBLKLE222	14 Aug 2007	03:41	07222SLE		MR
11	ch0380.D	222LELCS3	222LELCS	14 Aug 2007	04:02	07222SLE		MR
12	ch0381.D	SBLKLD2233	SBLKLD223	14 Aug 2007	04:23	07223SLD		MR
13	ch0382.D	223LDLCS3	223LDLCS	14 Aug 2007	04:44	07223SLD		MR

Lancaster Laboratories
Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP10623 **HP #03**

*** Shift #1 Analyst:_____ *** Shift #2 Analyst: [signature] 8/15/07

Comment Code:

R = Reinjection necessary		X =	Sample sent to be reextracted
S = Surrogate problem		I =	Internal Standard problem
NU = Not used		F =	Further dilution required
MR = Meets requirements		IUO =	Internal use only
Cz = Confirms z, (z = I or X)		T =	Injected outside valid tune period

VB8700

Other problems or comments are as follows:

_____

_____

_____

_____

Data Directory Path is - D:\DATA\07aug15\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	ch0470.D	50NG/UL	8270DFTPP1427	15 Aug 2007	19:53			MR
2	ch0471.D	SSTD030	STD2187	15 Aug 2007	20:08			MR
3	ch0472.D	PAH SURR STD	SS0722726A	15 Aug 2007	20:50			IUO
4	ch0473.D	SBLKLE2263	SBLKLE226	15 Aug 2007	21:11	07226SLE		MR
5	ch0474.D	226LELCS3	226LELCS	15 Aug 2007	21:32	07226SLE		MR
9	ch0478.D	SBLKLG2263	SBLKLG226	15 Aug 2007	21:52	07226SLG		MR
10	ch0479.D	226LGLCS3	226LGLCS	15 Aug 2007	22:13	07226SLG		MR
17	ch0486.D	SBLKWI2263	SBLKWI226	15 Aug 2007	22:34	07226WAI		MR
18	ch0487.D	226WILCS3	226WILCS	15 Aug 2007	22:55	07226WAI		MR
19	ch0488.D	226WILCSD3	226WILCSD	15 Aug 2007	23:16	07226WAI		MR
22	ch0491.D	SBLKLA2253	SBLKLA225	15 Aug 2007	23:36	07225SLA		MR
23	ch0492.D	225LALCS3	225LALCS	15 Aug 2007	23:57	07225SLA		MR
6	ch0475.D	TP217	5118301	16 Aug 2007	00:18	07226SLE		MR
7	ch0476.D	TP217MS	5118302	16 Aug 2007	00:39	07226SLE		MR
8	ch0477.D	TP217MSD	5118303	16 Aug 2007	01:00	07226SLE		MR
11	ch0480.D	13LNE	5127108	16 Aug 2007	01:21	07226SLG		MR
12	ch0481.D	13FLE	5127109	16 Aug 2007	01:42	07226SLG		MR
13	ch0482.D	13FLS	5127110	16 Aug 2007	02:03	07226SLG		MR
14	ch0483.D	13FLW	5127111	16 Aug 2007	02:24	07226SLG		MR
15	ch0484.D	13FLN	5127112	16 Aug 2007	02:45	07226SLG		MR
16	ch0485.D	13-PP	5127113	16 Aug 2007	03:06	07226SLG		MR
20	ch0489.D	INF14	5127165	16 Aug 2007	03:27	07226WAI		MR
21	ch0490.D	EFF14	5127167	16 Aug 2007	03:48	07226WAI		MR
24	ch0493.D	GP1-A	5124754	16 Aug 2007	04:09	07225SLA		OK-f10
25	ch0494.D	GP1-AMS	5124754	16 Aug 2007	04:29	07225SLA		MR
26	ch0495.D	GP1-AMSD	5124754	16 Aug 2007	04:50	07225SLA		MR
27	ch0496.D	GP1-B	5124755	16 Aug 2007	05:11	07225SLA		MR
28	ch0497.D	GP2-A	5124756	16 Aug 2007	05:32	07225SLA		MR
29	ch0498.D	GP2-B	5124757	16 Aug 2007	05:53	07225SLA		MR
30	ch0499.D	GP3-A	5124758	16 Aug 2007	06:14	07225SLA		OK-F2
31	ch0500.D	GP3-B	5124759	16 Aug 2007	06:35	07225SLA		MR
32	ch0501.D	GP4-A	5124760	16 Aug 2007	06:56	07225SLA		SX
33	ch0502.D	GP4-B	5124761	16 Aug 2007	07:16	07225SLA		MR
34	ch0503.D	2SB50	5124404	16 Aug 2007	07:37	07225SLA		MR
35	ch0504.D	0SB55	5124405	16 Aug 2007	07:58	07225SLA		T-NU
36	ch0505.D	4SB57	5124406	16 Aug 2007	08:19	07225SLA		T-NU
37	ch0506.D	240SC	5126002	16 Aug 2007	08:40	07225SLA		T-NU
38	ch0507.D	241SB	5126006	16 Aug 2007	09:01	07225SLA		T-NU
39	ch0508.D	S220-	5126039	16 Aug 2007	09:22	07225SLA		T-NU

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Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP11165 **HP #07**

*** Shift #1 Analyst: JMG *** Shift #2 Analyst: GSD *

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

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*

Data Directory Path is - D:\DATA\07jul30a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	gg1180.D	8270DFTPP19O7	50NG/UL	30 Jul 2007	19:24			
2	gg1181.D	SSTD030	STD2057	30 Jul 2007	19:39			MR AND MR
2	gg118A.D	SSTD030	STD2057	30 Jul 2007	20:11			
3	gg118B.D	SSTD120	STD2057	30 Jul 2007	20:40			
4	gg118C.D	SSTD080	STD2057	30 Jul 2007	21:04			
5	gg118D.D	SSTD050	STD2057	30 Jul 2007	21:29			
6	gg118E.D	SSTD015	STD2057	30 Jul 2007	21:53			
7	gg118F.D	SSTD005	STD2057	30 Jul 2007	22:18			
8	gg118G.D	SSTD001	8270MDL2057	30 Jul 2007	22:42			
9	gg118H.D	SSTD050	ICV1387	30 Jul 2007	23:07			
11	gg1182.D	SBLKWA2097	SBLKWA209	30 Jul 2007	23:31	07209WAA		
12	gg1183.D	209WALCS7	209WALCS	30 Jul 2007	23:56	07209WAA		
13	gg1184.D	SBLKWB2097	SBLKWB209	31 Jul 2007	00:21	07209WAB		
14	gg1185.D	209WBLCS7	209WBLCS	31 Jul 2007	00:45	07209WAB		
15	gg1186.D	209WBLCSD7	209WBLCSD	31 Jul 2007	01:10	07209WAB		
16	gg1187.D	SBLKWF2087	SBLKWF208	31 Jul 2007	01:35	07208WAF		
17	gg1188.D	208WFLCS7	208WFLCS	31 Jul 2007	01:59	07208WAF		
18	gg1189.D	208WFLCSD7	208WFLCSD	31 Jul 2007	02:24	07208WAF		
19	gg1190.D	27001	5112848	31 Jul 2007	02:48	07208WAF		
20	gg1191.D	ROYW1	5113080	31 Jul 2007	03:13	07209WAA		
21	gg1192.D	ROYW2	5113081	31 Jul 2007	03:37	07209WAA		
22	gg1193.D	ROY2D	5113082	31 Jul 2007	04:02	07209WAA		
23	gg1194.D	W111A	5113952	31 Jul 2007	04:27	07209WAB		
24	gg1195.D	W111B	5113953	31 Jul 2007	04:51	07209WAB		
25	gg1196.D	W111C	5113954	31 Jul 2007	05:16	07209WAB		
26	gg1197.D	W111D	5113955	31 Jul 2007	05:40	07209WAB		
27	gg1198.D	BLANK	5113956	31 Jul 2007	06:04	07209WAB		

Lancaster Laboratories

Semi-Volatiles

Runlog for Hewlett Packard GC/MS System HP11165 **HP #07**

*** Shift #1 Analyst: mec (3) *** Shift #2 Analyst: JMG

Comment Code:

R	=	Reinjection necessary	X	=	Sample sent to be reextracted
S	=	Surrogate problem	I	=	Internal Standard problem
NU	=	Not used	F	=	Further dilution required
MR	=	Meets requirements	IUO	=	Internal use only
Cz	=	Confirms z, (z = I or X)	T	=	Injected outside valid tune period

Other problems or comments are as follows:

Data Directory Path is - D:\DATA\07aug03a\

ALS Btl #	Laboratory File ID	Client ID	Lab Sample ID	Date injected	Time injected	Case and SDG Number or Extraction Batch Number	Dilution Factor	Comments
1	gh0150.D	8270DFTPP1907	50NG/UL	03 Aug 2007	19:40			MR
2	gh0151.D	SSTD080	STD2057	03 Aug 2007	19:56			MR
11	gh0152.D	SBLKWA2147	SBLKWA214	03 Aug 2007	20:27	07214WAA		MR
12	gh0153.D	214WALCS7	214WALCS	03 Aug 2007	20:51	07214WAA		MR
13	gh0154.D	214WALCSD7	214WALCSD	03 Aug 2007	21:16	07214WAA		MR
14	gh0155.D	SBLKLF2147	SBLKLF214	03 Aug 2007	21:40	07214SLF		MR
15	gh0156.D	214LFLCS7	214LFLCS	03 Aug 2007	22:05	07214SLF		MR
16	gh0157.D	SBLKWD2157	SBLKWD215	03 Aug 2007	22:30	07215WAD		MR
17	gh0158.D	215WDLCS7	215WDLCS	03 Aug 2007	22:54	07215WAD		MR
18	gh0159.D	215WDLCSD7	215WDLCSD	03 Aug 2007	23:19	07215WAD		MR
19	gh0160.D	EB801	5118307	03 Aug 2007	23:44	07215WAD		MR
20	gh0161.D	31LNE	5116905	04 Aug 2007	00:08	07214SLF		MR
21	gh0162.D	31FLE	5116906	04 Aug 2007	00:33	07214SLF		MR
22	gh0163.D	31FLS	5116907	04 Aug 2007	00:58	07214SLF		MR
23	gh0164.D	31FLW	5116908	04 Aug 2007	01:22	07214SLF		MR
24	gh0165.D	31FLN	5116909	04 Aug 2007	01:47	07214SLF		MR
25	gh0166.D	31-PP	5116910	04 Aug 2007	02:11	07214SLF		MR
26	gh0167.D	1307X	5116597	04 Aug 2007	02:36	07214WAC		MR
27	gh0168.D	F731-	5116598	04 Aug 2007	03:00	07214WAC		MR
28	gh0169.D	D731-	5116600	04 Aug 2007	03:25	07214WAC		MR
29	gh0170.D	04514	5117454	04 Aug 2007	03:49	07214WAC		MR
30	gh0171.D	20014	5117455	04 Aug 2007	04:14	07214WAC		MR
31	gh0172.D	40014	5117456	04 Aug 2007	04:38	07214WAC		MR
32	gh0173.D	PONDO	5117680	04 Aug 2007	05:03	07214WAC		MR
33	gh0174.D	SG215RE	5112323RE	04 Aug 2007	05:27	07214WAA		MR
34	gh0175.D	SG208RE	5112324RE	04 Aug 2007	05:52	07214WAA		MR
35	gh0176.D	SG108RE	5112325RE	04 Aug 2007	06:16	07214WAA		MR
36	gh0177.D	B1---RE	5113715RE	04 Aug 2007	06:41	07214WAA		MR

Extraction/Distillation/Digestion Logs

Organic Extraction Batchlog

07215WAD026

Reviewed By: GB 8/3/07 Start Date: 8/3/07 Start Time: 14:00

Tech 1: EW 2033 Tech 2:

Prep Group # 621 PAH by GC/MS - Water **Dept:** 26 **Prep Analysis #** 07807 BNA Water Extraction

QC	Sample Code	Amt (ml)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANK6	PBLK2E	1000	SS0719726A	1.0			1.0	2	NT	NA	
LCS6	LCSH8	↓	SS0719726A	↓	MS0719126A	1.0	↓	↓	↓	↓	
LCSD6	LCSDX6	↓	SS0719726A	↓	MS0719126A	↓	↓	↓	↓	↓	

Solvent Used	Lot No.
Methylene Chloride	E38812
Sodium Sulfate	072159
Sulfuric Acid	067675

Spike Solutions: **Witness:** KPL1861

SS0719726A PAH SURROGATE STD. - BY GCMS
MS0719126A PAH SPIKE - BY GC/MS

	Sample #	Sample Code	Amt (ml)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Pr
1	5118307	EB801	1029	SS0719726A	1.0	1.0	2	NA	45A	Clear NY5576C	7805	8/14/2007	N
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20											EW 2033 8/3/07		

Rack ID:		Work Station:	H2o Bench
Internal Standard	LB42312	Balance #	17

S-bath ID	1	86 °C	S-bath ID	°C	N-Evap	°C

Documented temps are NIST corrected.

07215WAD026

DF = Dilution Factor, FV = Final Volume

Organic Extraction Batchlog

07220SLC026

Reviewed By: R. Byrne 1526 Start Date: 8-8-07 Start Time: 4:25 pm

Tech 1: DJL4 Tech 2:

Prep Group #	720 PAH by GC/MS - Soil/Solid	Dept: 26	Prep Analysis #	07806 BNA Soil Extraction

QC	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH N/A	pH N/A	BC N/A	Comments
BLANK6	PBLK6M	30	SS0721126A	1.0	—	—	1.0				$NaSO_4$
LCS6	LCSLK	30	SS0721126A		MS0719126A	1.0					
5118302MS	TP217MS	30	SS0721126A		MS0719126A					21A	clumpy mud
5118303MSD	TP217MSD	30	SS0721126A		MS0719126A						

Solvent Used	Lot No.
1:1 Methylene Chloride/Aceton	185080307A
Filter paper	G1824591
Methylene Chloride	E28E12
Sodium Sulfate	07219A
	methylene chloride E28612

Spike Solutions: **Witness:** QF 2140

SS0721126A PAH SURROGATE STD. - BY GCMS
MS0719126A PAH SPIKE - BY GC/MS

DJL4 8-8-07

	Sample #	Sample Code	Amt (g)	SS/IS Sol.	Amt (mL)	FV (mL)	pH N/A	pH N/A	BC	Comments	Analyses	Due Date	Pr
1	5118301 bkg	TP217	30	SS0721126A	1.0	1.0			21A	clumpy mud	7804	8/14/2007	N
2	5118304	TP218	30	SS0721126A					20A	gritty brown soil/stones	7804	8/14/2007	N
3	5118305	4T217	30	SS0721126A							7804	8/14/2007	N
4	5118306	FD801	30	SS0721126A							7804	8/14/2007	N
5	5119935 *	769S1	30	SS0721126A						wet mud	7804	8/14/2007	P
6	5119936 *	769S2	30	SS0721126A							7804	8/14/2007	P
7	5119937 *	769S6	30	SS0721126A						mud	7804	8/14/2007	P
8													
9	* Na_2SO_4 Clean-up												
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

NYSDEC 6½ 17

DJL4 8-8-07

Rack ID:		Work Station: Sun Hood 1
Internal Standard	LB 42312	Balance # 5311

S-bath ID 2	98 °C	S-bath ID	°C	N-Evap	°C

Documented temps are NIST corrected.

07220SLC026

DF = Dilution Factor FV = Final Volume

Organic Extraction Batchlog

07226SLE026

Reviewed By: mc 8/15/07 Start Date: 8/15/07 Start Time: 12:30A

Tech 1: Tolemen 2043 Tech 2:

Prep Group # 720 PAH by GC/MS - Soil/Solid **Dept:** 26 **Prep Analysis #** 07806 BNA Soil Extraction

QC	Sample Code	Amt (G)	SS/IS Sol.	Amt (mL)	MS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments
BLANK6	PBLKDA	30	SS0721126A	1.0			1.0				DA2SO4
LCS6	LCSSI		SS0721126A		MS0719126A	1.0					
5118302MS	TP217MS		SS0721126A		MS0719126A					2/A	gray lumps
5118303MSD	TP217MSD		SS0721126A		MS0719126A						

Solvent Used	Lot No.
1:1 Methylene Chloride/Aceton	185080907A
Filter paper	H1206544
Methylene Chloride	E30E66
Sodium Sulfate	E307225A

@ pf 2043 8/14/07

Spike Solutions: **Witness:** 15001 8/14/07

SS0721126A PAH SURROGATE STD. - BY GCMS
MS0719126A PAH SPIKE - BY GC/MS

	Sample #	Sample Code	Amt (G)	SS/IS Sol.	Amt (mL)	FV (mL)	pH	pH	BC	Comments	Analyses	Due Date	Pr
1	5118301 bkg R	TP217	30	SS0721126A	1.0	1.0			2/A	gray lumps OP Fl's NYSTEC	7804	8/14/2007	N
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

pf 2043 8/15/07

Rack ID:		Work Station:	SON HD1	S-bath ID 2	90°C	S-bath ID —	—°C	N-Evap —	—°C	07226SLE026
Internal Standard	LB42312	Balance #	2910	Documented temps are NIST corrected.						

Moisture Data

Lancaster Laboratories

CLIENT: Brown & Caldwell
SDG: TRY01

MOISTURE

SAMPLE NUMBERS:

Sample #	Sample Code
5118301	TP217BKG
5118302	TP217MS
5118303	TP217MSD
5118304	TP218
5118305	4T217
5118306	FD801FD

COMMENTS:

Due to limitations of the data package software, Form I's are unavailable for wet chemistry data. Please refer to analysis reports for this information.

The moisture value calculation is:

$$\% \text{ moisture} = \frac{A - B}{C} \times 100$$

Where: A = weight of sample and container before drying
B = weight of sample and container after drying
C = weight of sample before drying

Laboratory Compliance Quality Control

Analysis Name	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 07215820004B	Sample number(s): 5118301-5118306				
Moisture	100		99-101		
Moisture	100		99-101		
Moisture Duplicate	100		99-101		

Sample Matrix Quality Control

Analysis Name	BKG Conc	DUP Conc	RPD	RPD Max
Batch number: 07215820004B	Sample number(s): 5118301-5118306			
Moisture	22.2	20.4	8	15
Moisture Duplicate	22.2	20.4	8	15
Moisture	22.2	20.4	8	15

* - Outside of specification
(1) - The result for one or both determinations was less than five times the LOQ.

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Moisture Data Report

Batch #: 07215820004

Sample ID	Batch ID	Analysis#	Tare Wt	Sample Wt	Dry Wt	%Moisture	Analysis Date (Emp#)	Verified Date (Emp#)
LCS 89.5% Std.			1.1179	5.0461	1.6544	89.37	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118301BKG	B	00111	1.1045	8.3985	7.6365	22.22	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118302MS	B	00118				22.22	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118303MSD	B	00118				22.22	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118303MSD	B	00121	1.0926	8.3633	7.7486	20.41	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118304	B	00111	1.0815	7.6114	7.6056	14.29	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118305	B	00111	1.0777	7.2109	7.3161	13.49	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)
5118306FD	B	00111	1.0793	7.6788	7.6381	14.59	8/ 3/07 (1201/SWF)	8/ 6/07 (0236/CW)

8796